Appendix B

GSM 850 & 1900

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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

2. BAND	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.96	30.21	38.45	PASS
GSM850	190	---	32.75	30.00	38.45	PASS
GSM850	251	---	32.77	30.02	38.45	PASS
EGPRS850	128	1	27.19	24.44	38.45	PASS
EGPRS850	128	2	26.16	23.41	38.45	PASS
EGPRS850	128	3	24.14	21.39	38.45	PASS
EGPRS850	128	4	23.14	20.39	38.45	PASS
EGPRS850	190	1	27.32	24.57	38.45	PASS
EGPRS850	190	2	26.25	23.50	38.45	PASS
EGPRS850	190	3	24.22	21.47	38.45	PASS
EGPRS850	190	4	23.27	20.52	38.45	PASS
EGPRS850	251	1	27.31	24.56	38.45	PASS
EGPRS850	251	2	26.22	23.47	38.45	PASS
EGPRS850	251	3	24.18	21.43	38.45	PASS
EGPRS850	251	4	23.21	20.46	38.45	PASS

BAND	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.24	29.54	33.00	PASS
GSM1900	661	---	30.12	29.42	33.00	PASS
GSM1900	810	---	30.22	29.52	33.00	PASS
EGPRS1900	512	1	26.38	25.68	33.00	PASS
EGPRS1900	512	2	24.66	23.96	33.00	PASS
EGPRS1900	512	3	22.13	21.43	33.00	PASS
EGPRS1900	512	4	20.63	19.93	33.00	PASS
EGPRS1900	661	1	26.28	25.58	33.00	PASS
EGPRS1900	661	2	24.49	23.79	33.00	PASS
EGPRS1900	661	3	22.02	21.32	33.00	PASS
EGPRS1900	661	4	20.47	19.77	33.00	PASS
EGPRS1900	810	1	26.65	25.95	33.00	PASS
EGPRS1900	810	2	24.81	24.11	33.00	PASS
EGPRS1900	810	3	22.44	21.74	33.00	PASS
EGPRS1900	810	4	20.79	20.09	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]

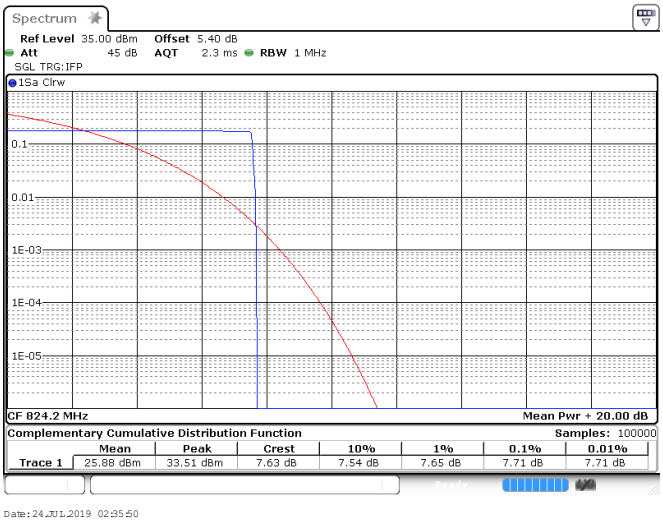
2. Peak-to-Average Ratio

2.1. Test Result

BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	7.71	13	PASS
GSM850	190	7.68	13	PASS
GSM850	251	7.62	13	PASS
EGPRS850	128	10.72	13	PASS
EGPRS850	190	10.26	13	PASS
EGPRS850	251	10.23	13	PASS
GSM1900	512	7.68	13	PASS
GSM1900	661	7.68	13	PASS
GSM1900	810	7.68	13	PASS
EGPRS1900	512	10.58	13	PASS
EGPRS1900	661	11.22	13	PASS
EGPRS1900	810	10.52	13	PASS

2.2. Part II - Test Plots

GSM850_128



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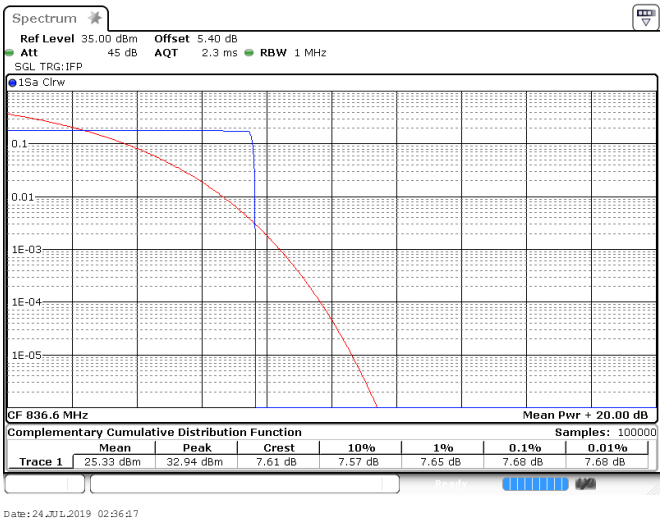

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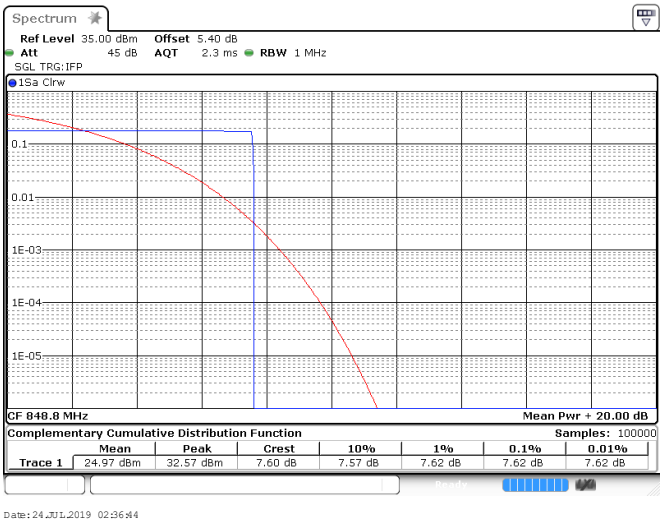

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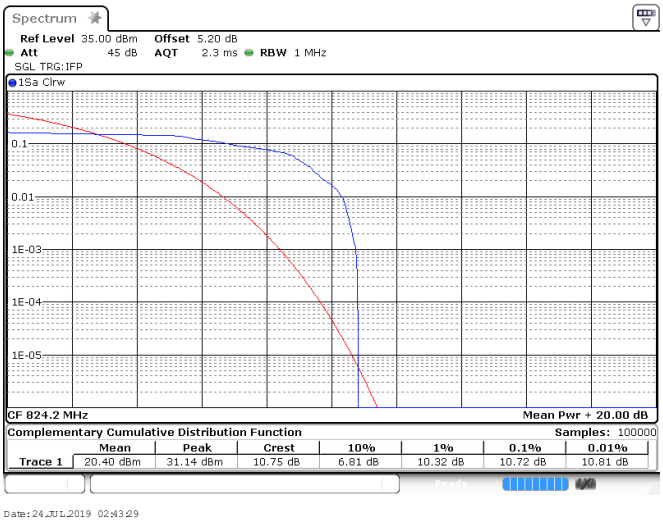

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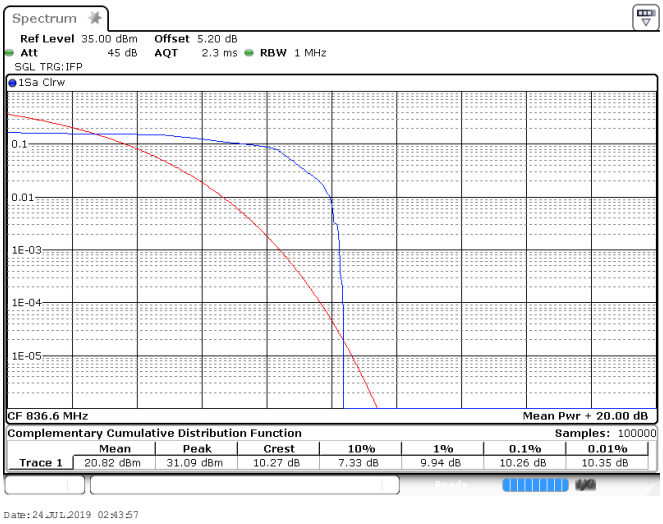

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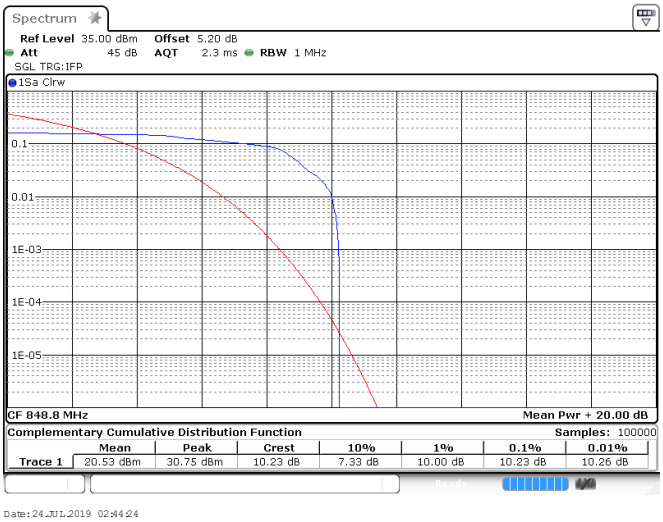

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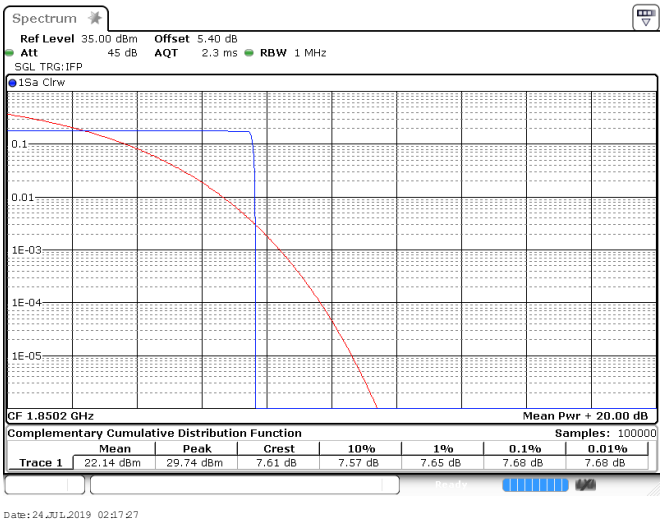

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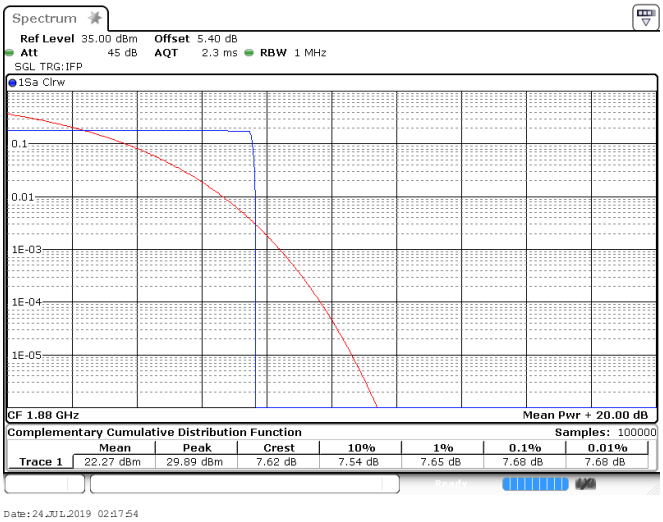

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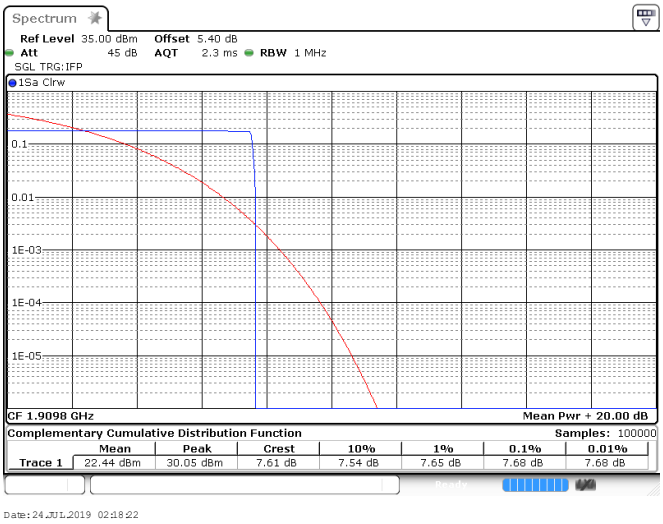

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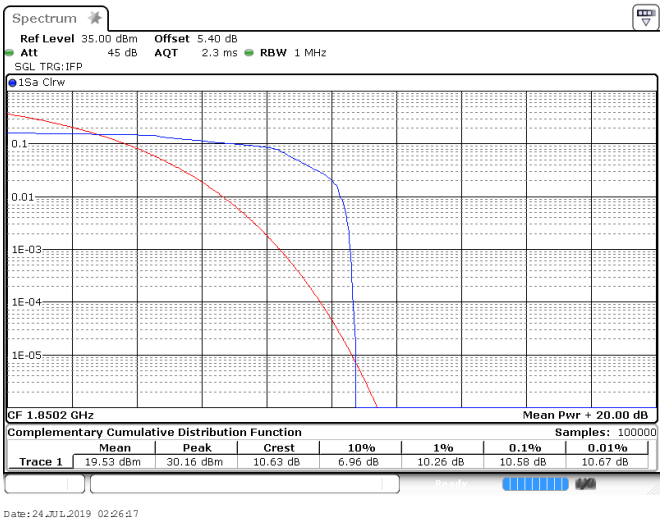

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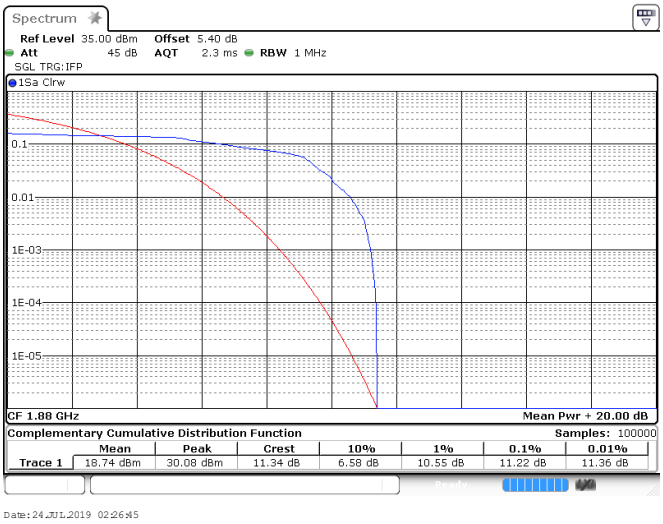

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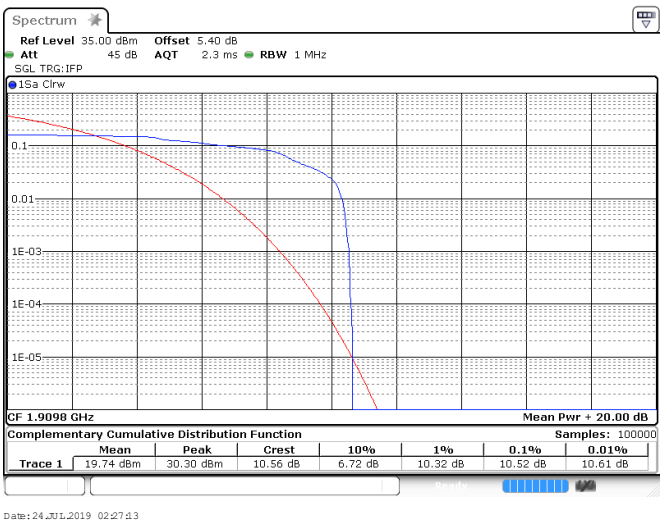

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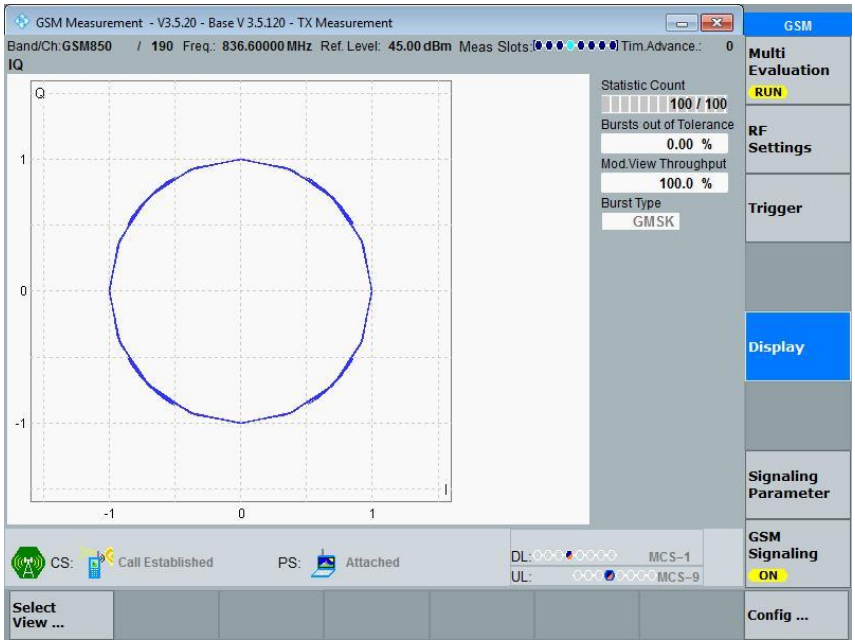
3. Modulation Characteristics

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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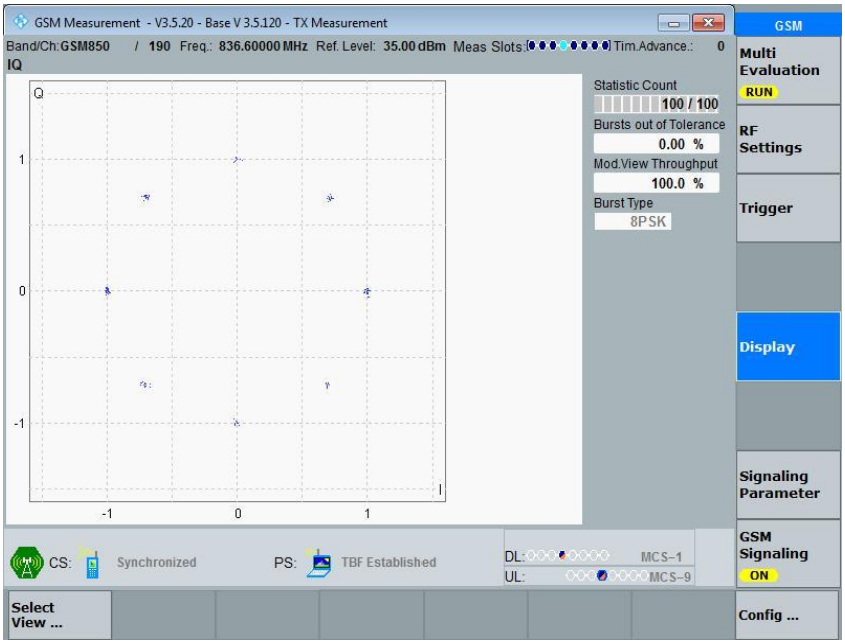
3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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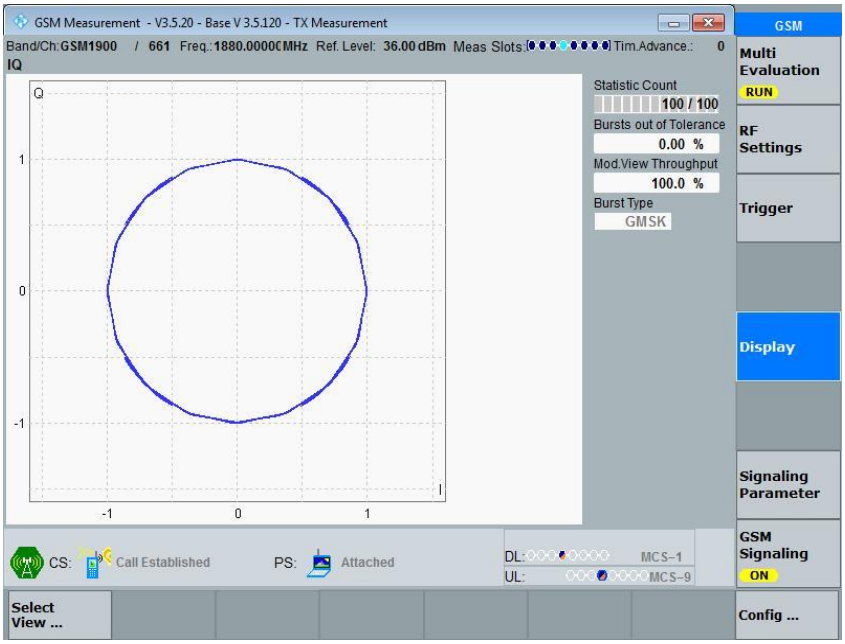
3.1.2. Test BAND = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



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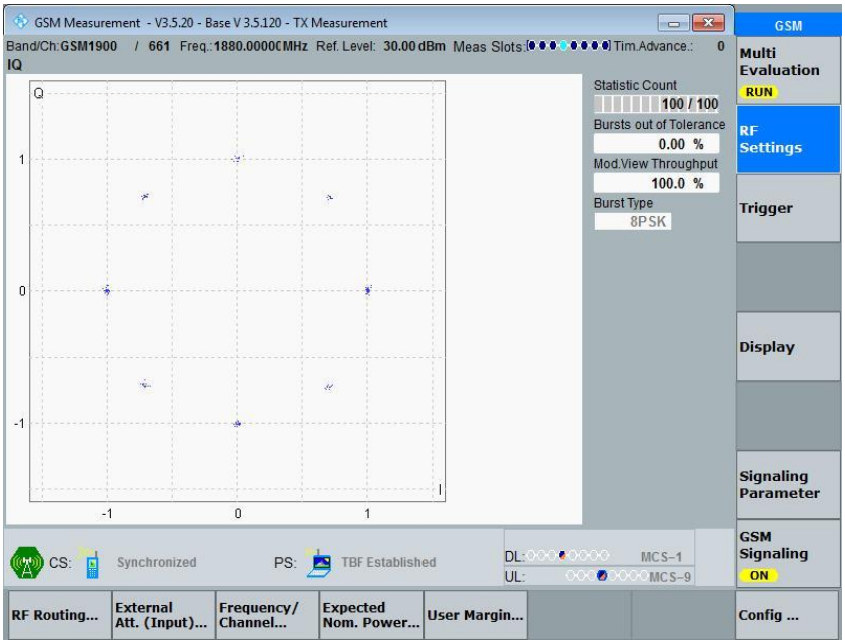
3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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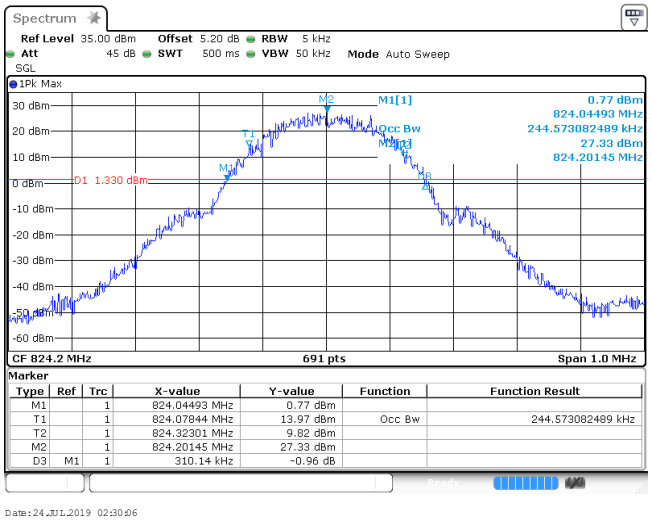
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	244.57	310.14	---	PASS
GSM850	190	244.57	302.90	---	PASS
GSM850	251	248.91	315.94	---	PASS
EGPRS850	128	253.26	311.59	---	PASS
EGPRS850	190	251.81	302.90	---	PASS
EGPRS850	251	256.15	305.80	---	PASS
GSM1900	512	246.02	314.49	---	PASS
GSM1900	661	244.57	307.25	---	PASS
GSM1900	810	246.02	291.30	---	PASS
EGPRS1900	512	244.57	308.70	---	PASS
EGPRS1900	661	244.57	305.80	---	PASS
EGPRS1900	810	243.13	302.90	---	PASS

4.2. Test Plots

GSM850_128



GSM850_190

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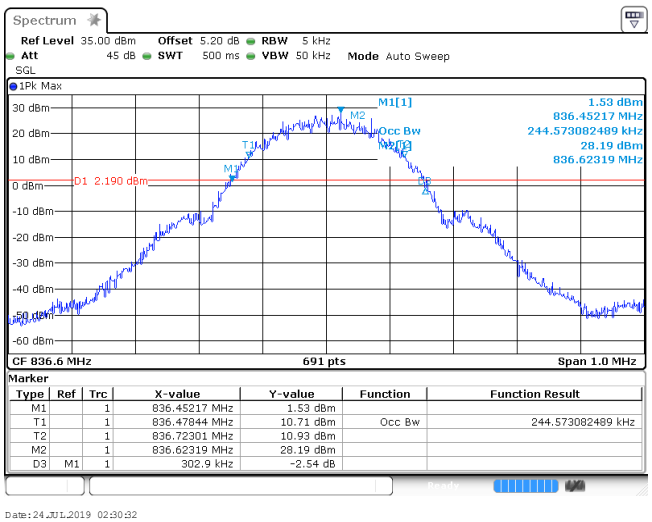
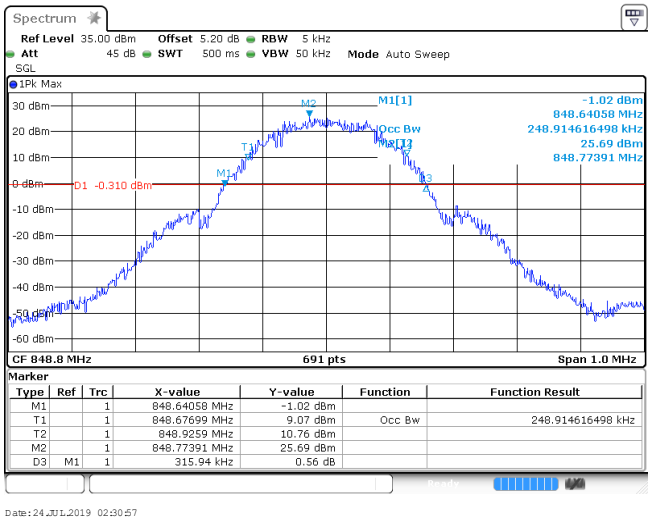


GSM850_251



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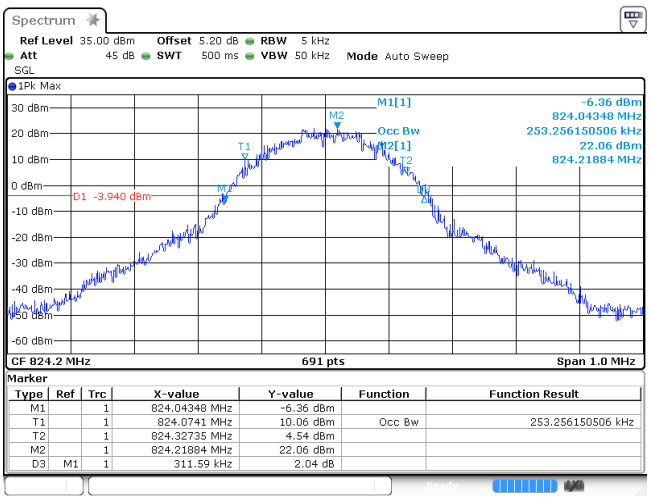

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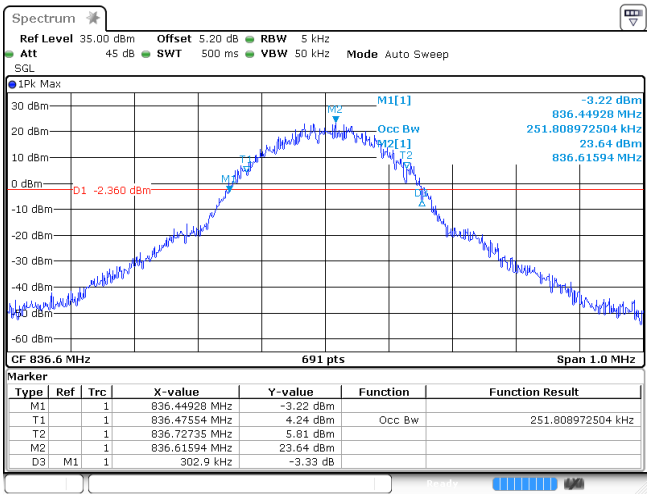

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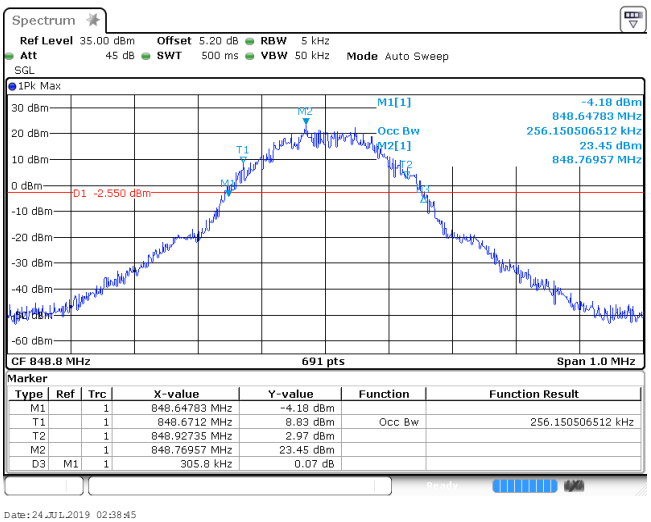
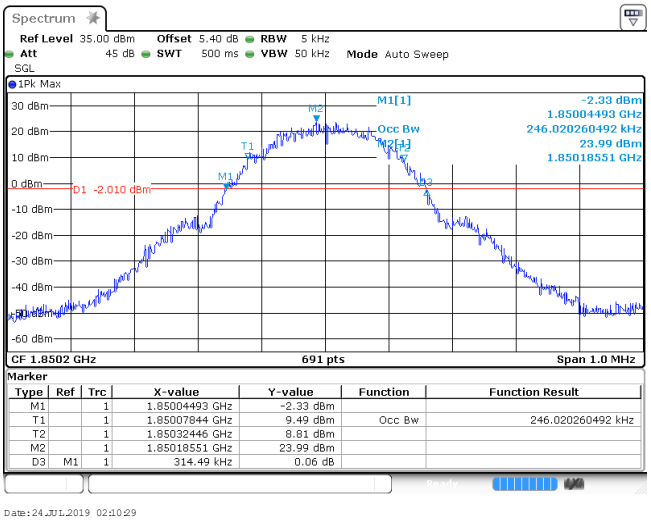


GSM1900_512



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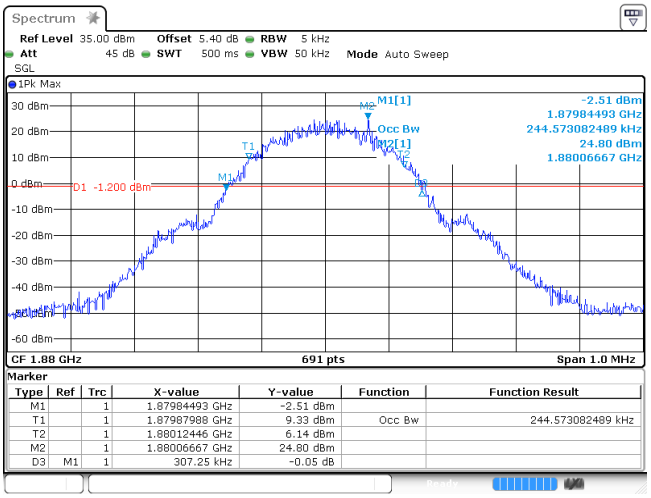

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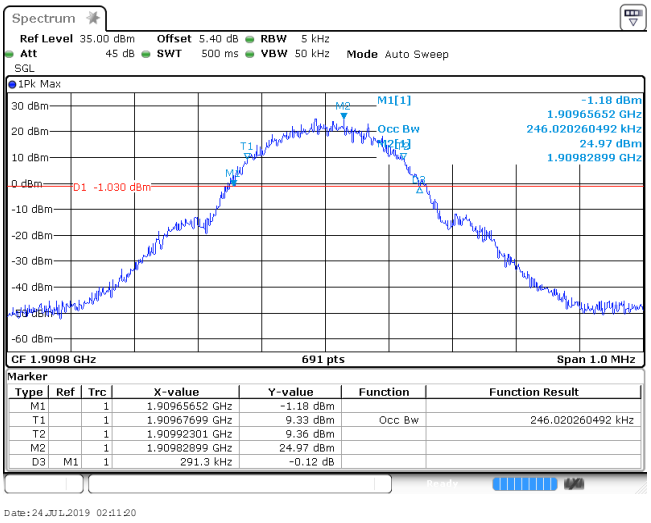

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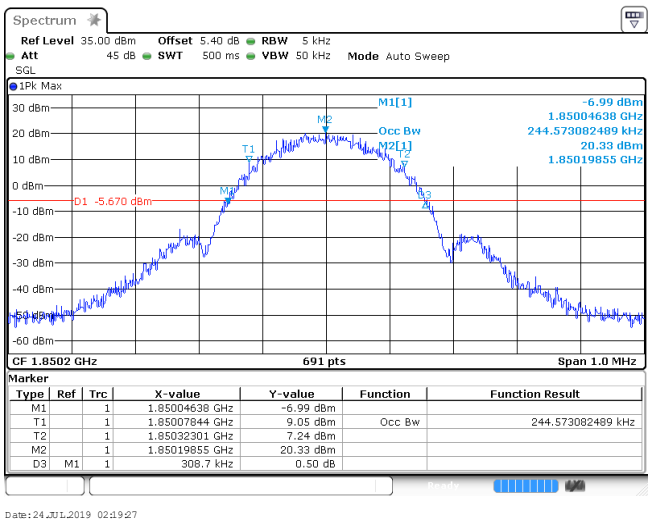

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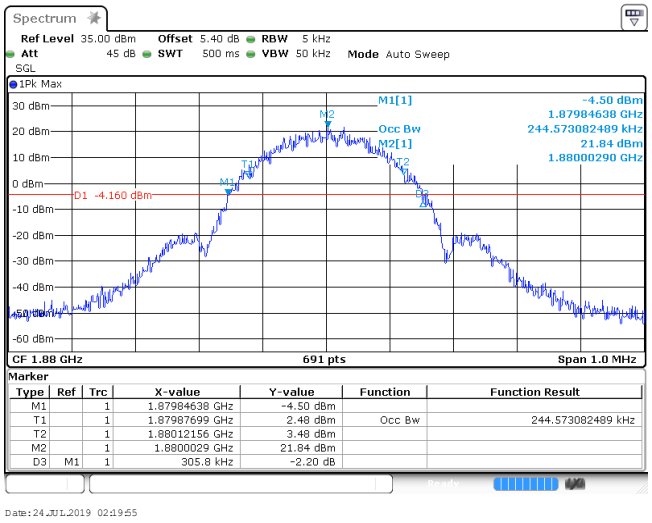

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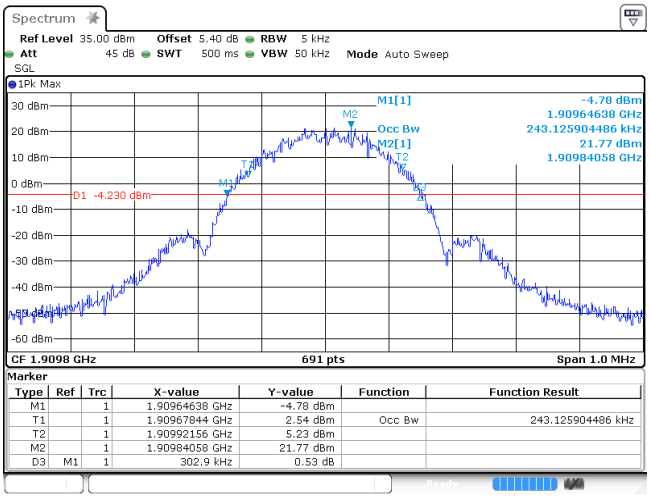

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5. Band Edge Compliance

5.1. Test Plots

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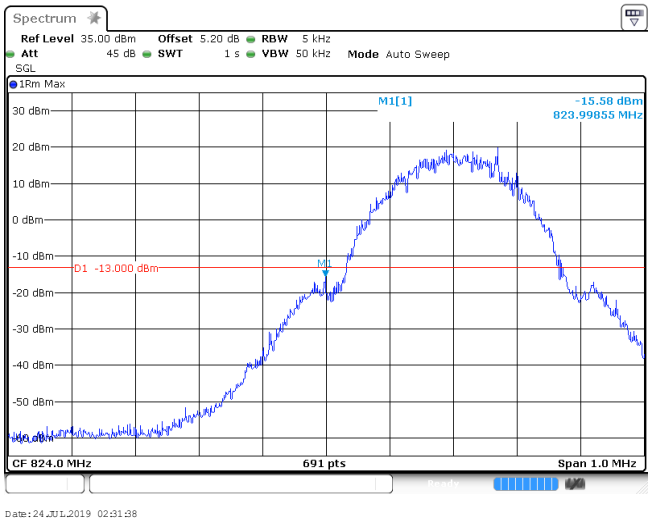

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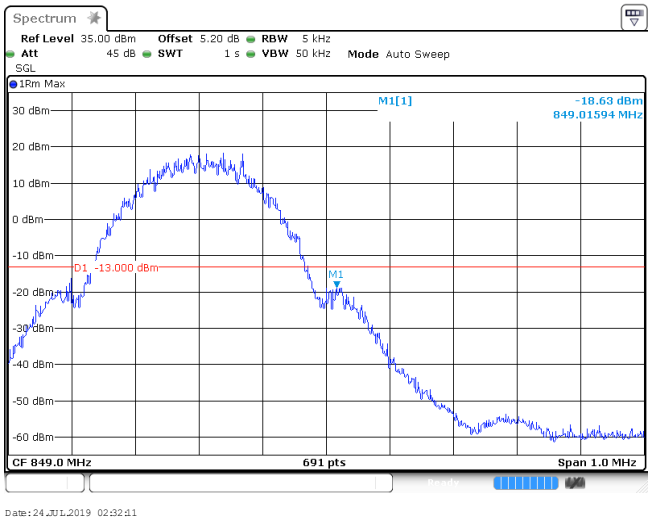

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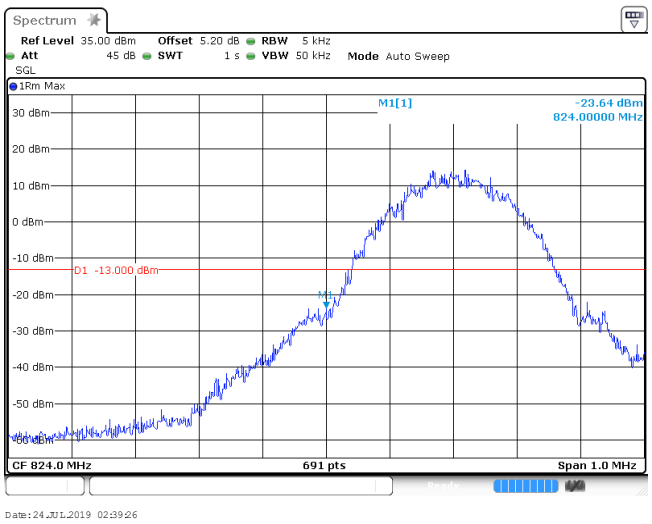

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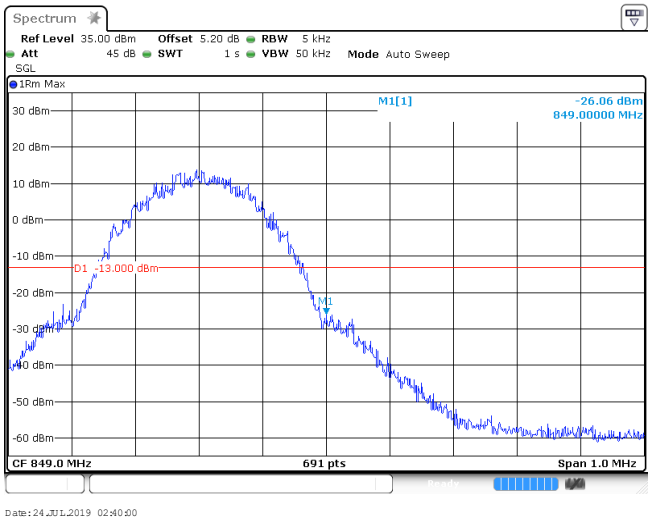

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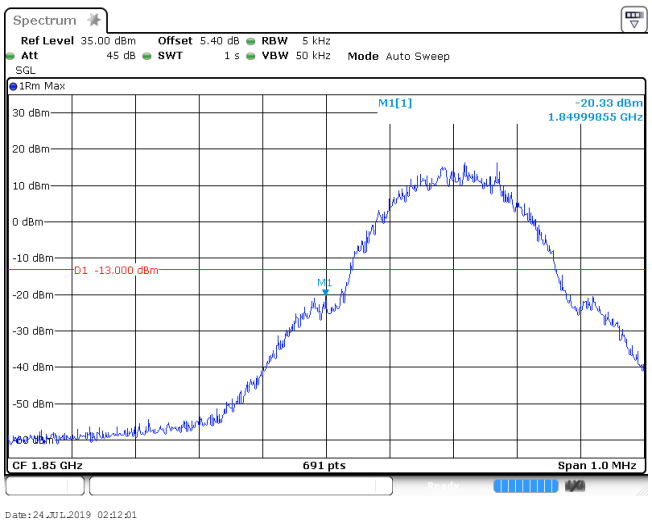

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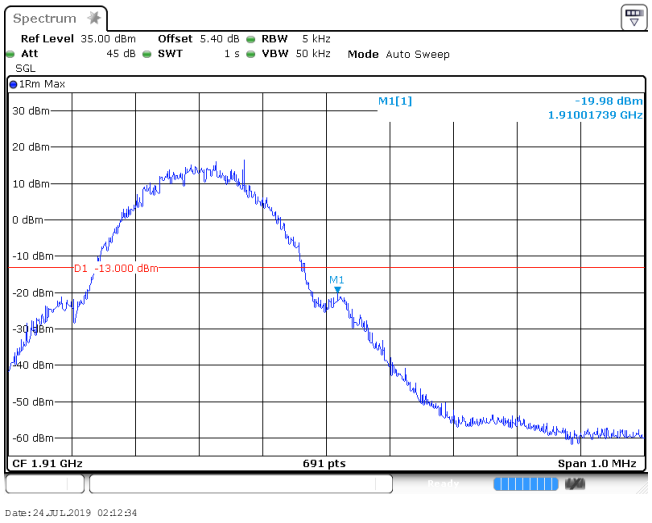

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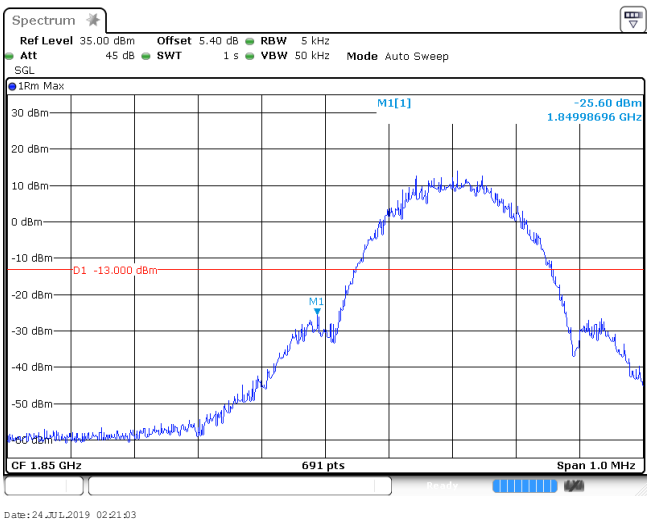

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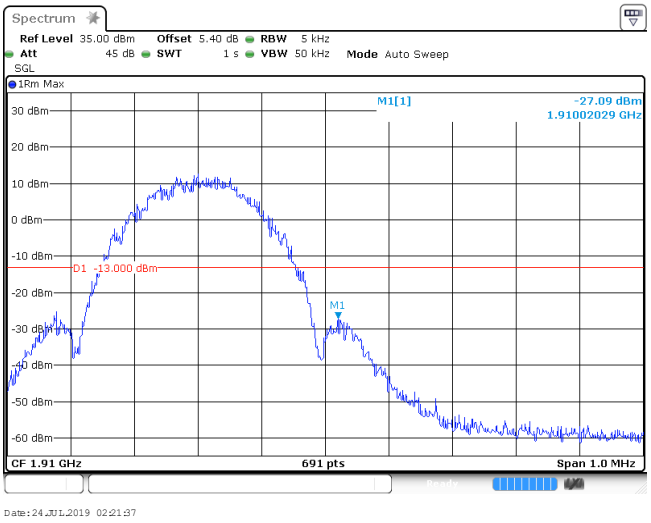

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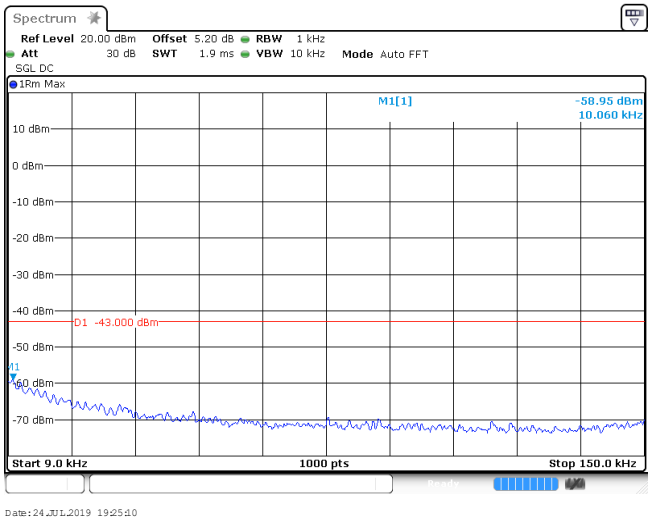
6. Spurious Emission at Antenna Terminal

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



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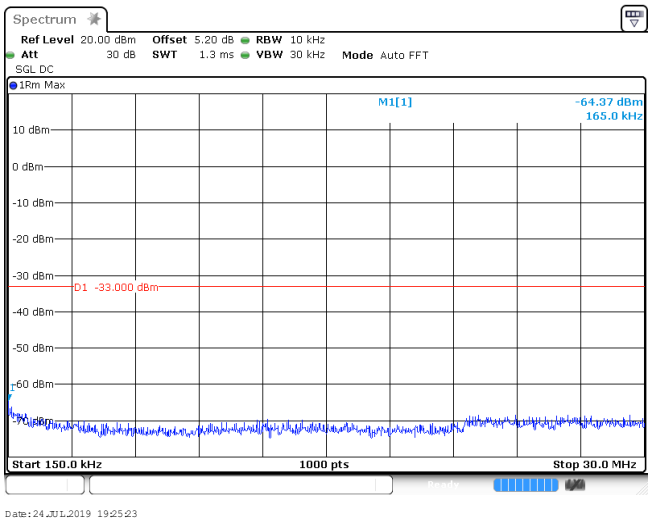

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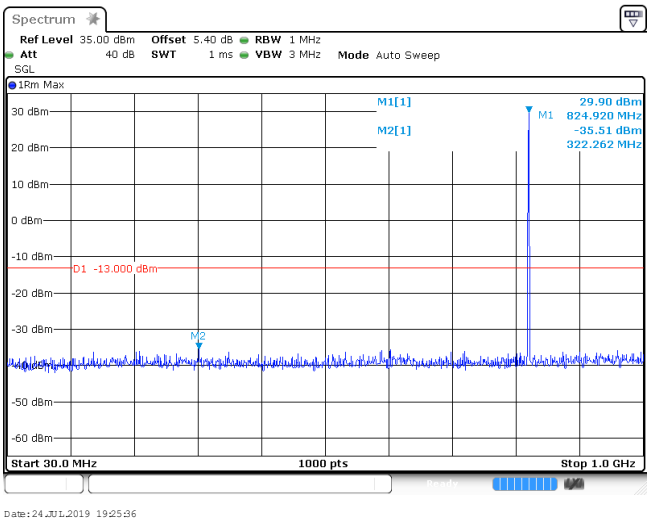

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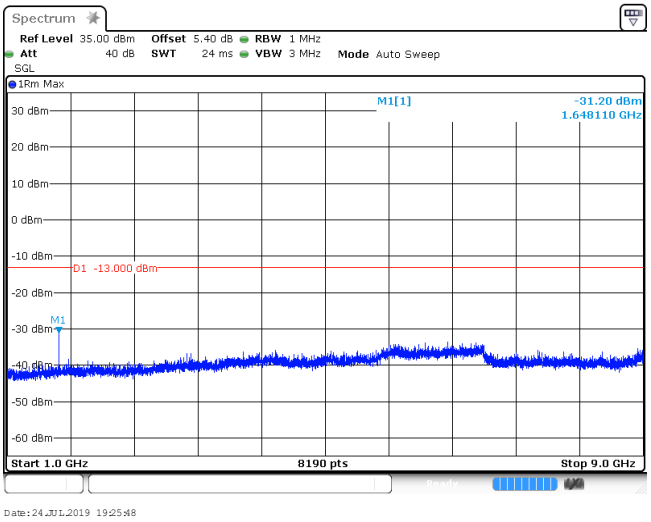

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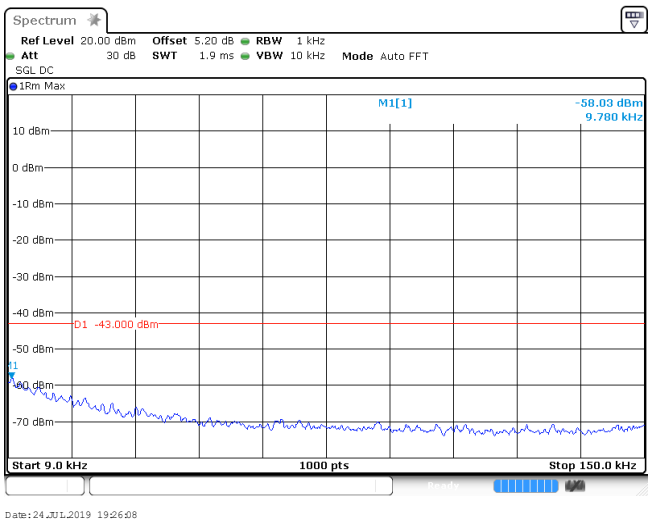

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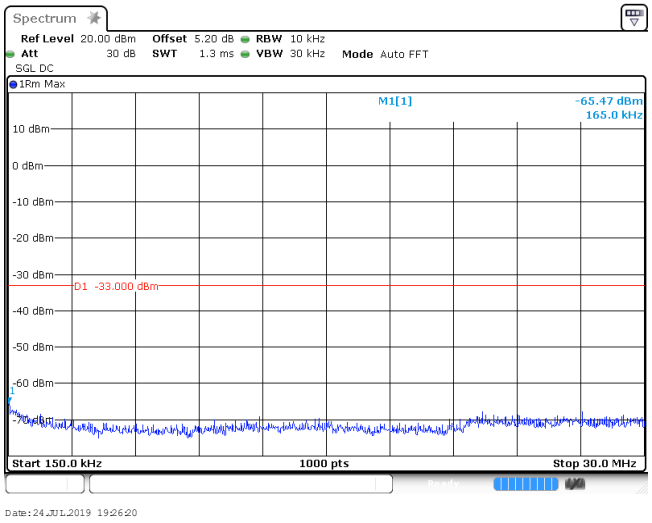

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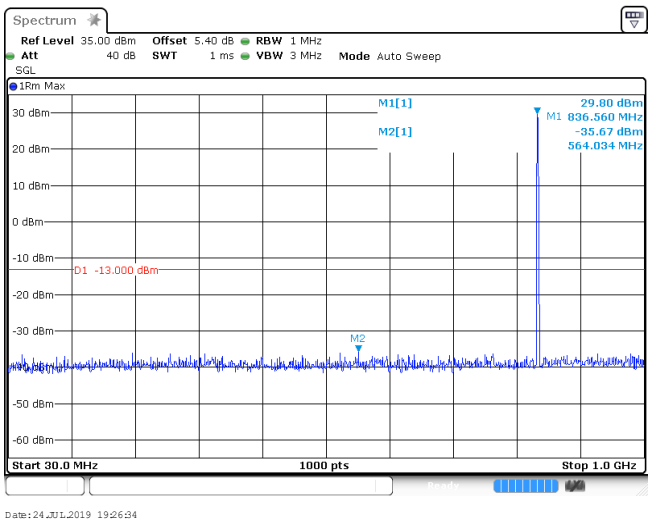

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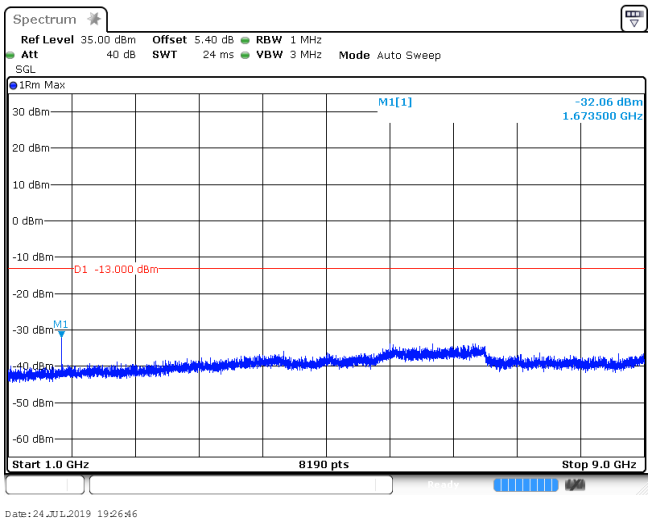

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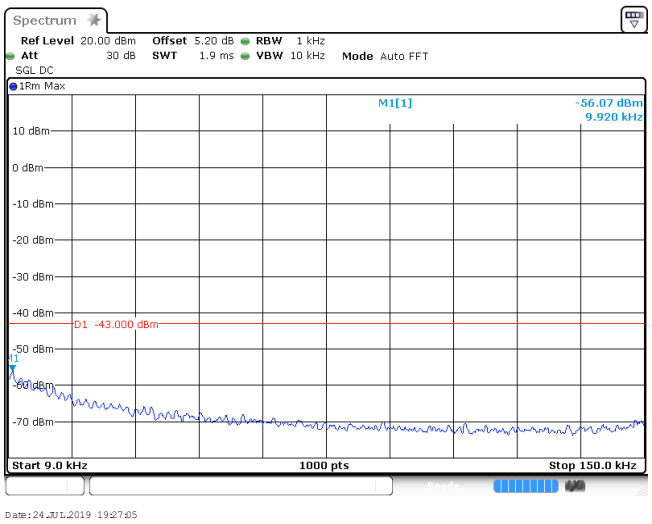

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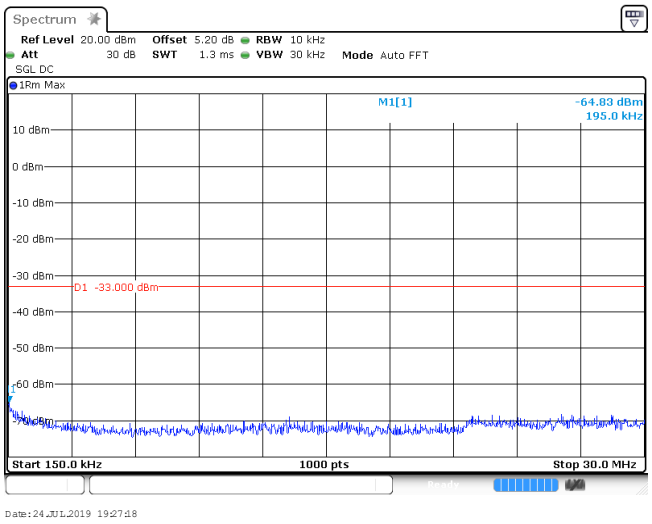

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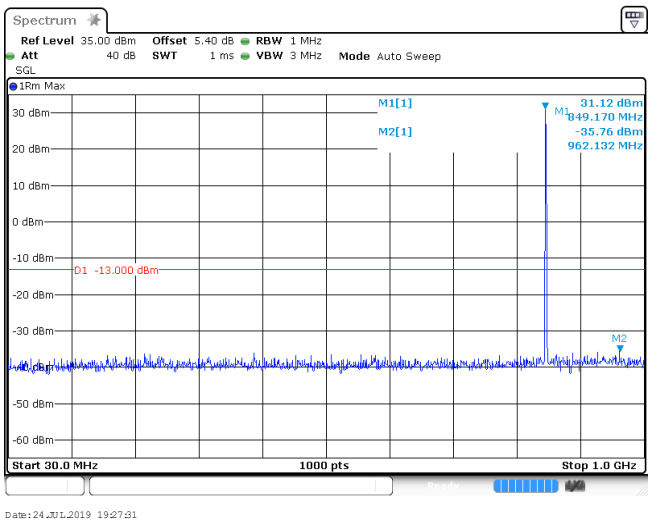

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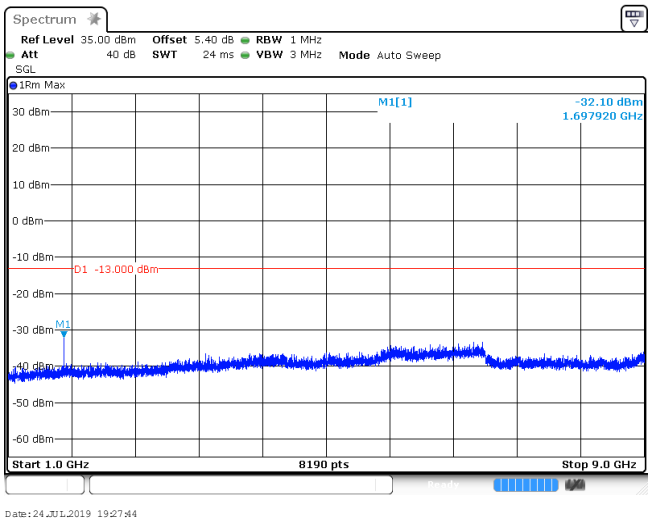

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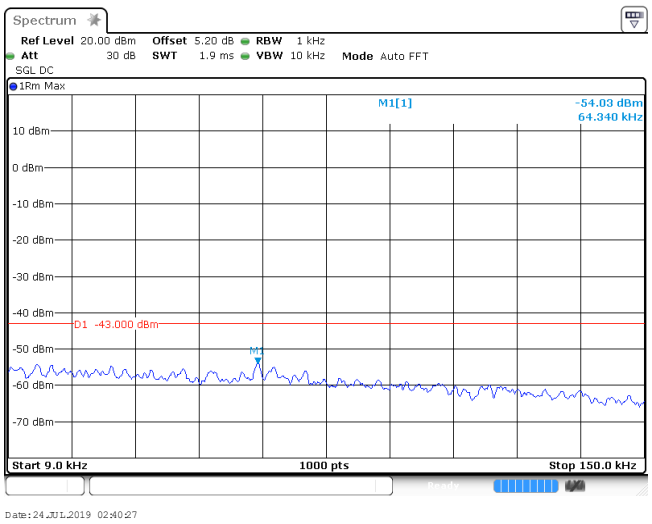

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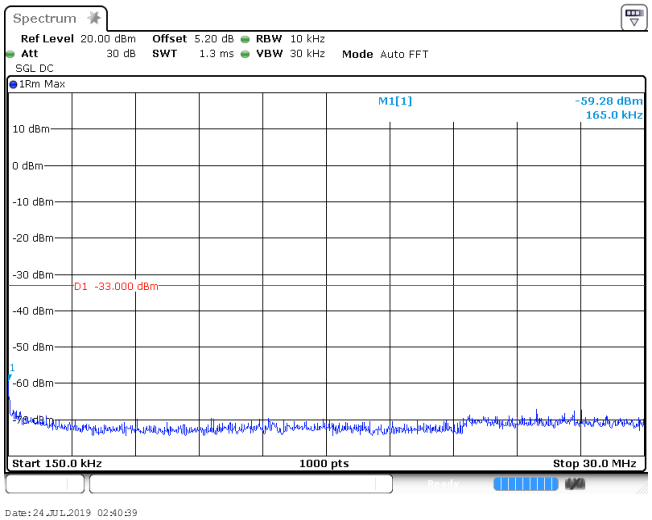

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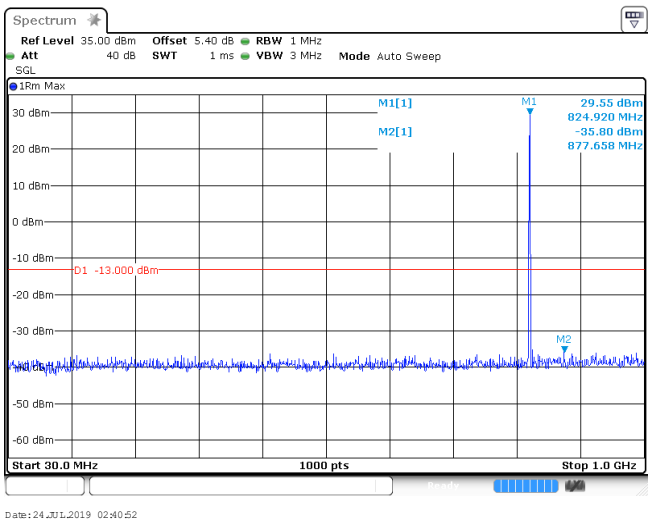

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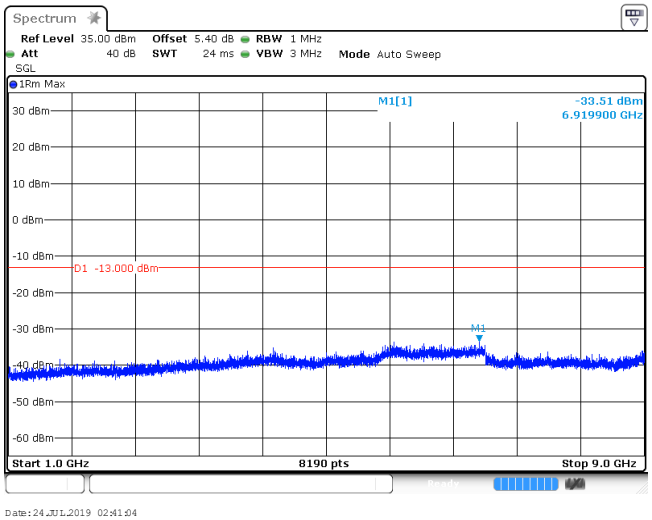

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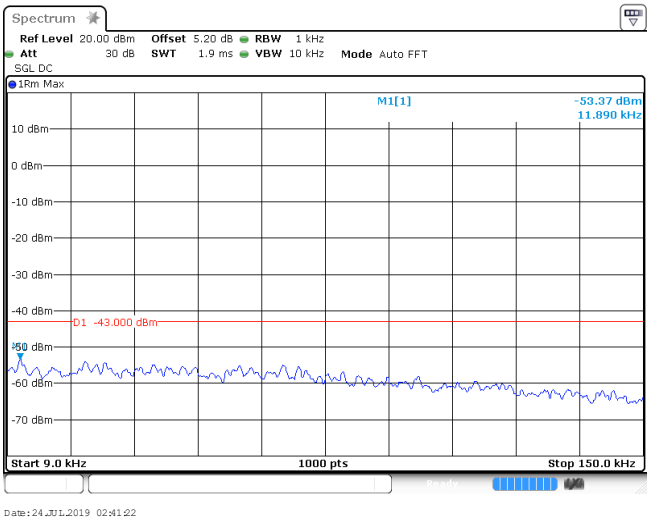

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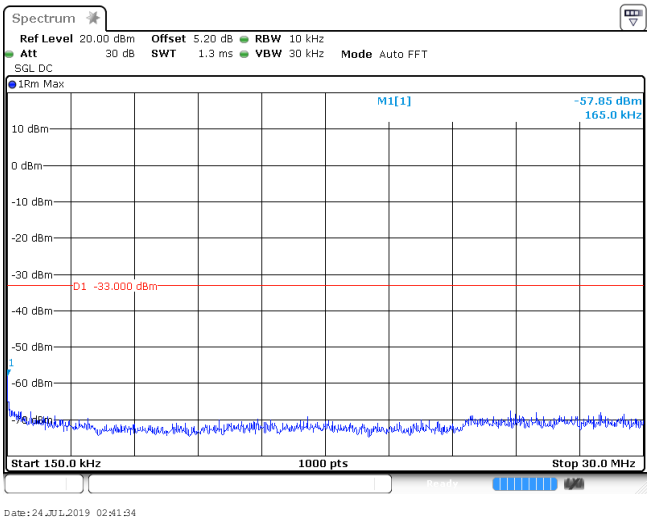

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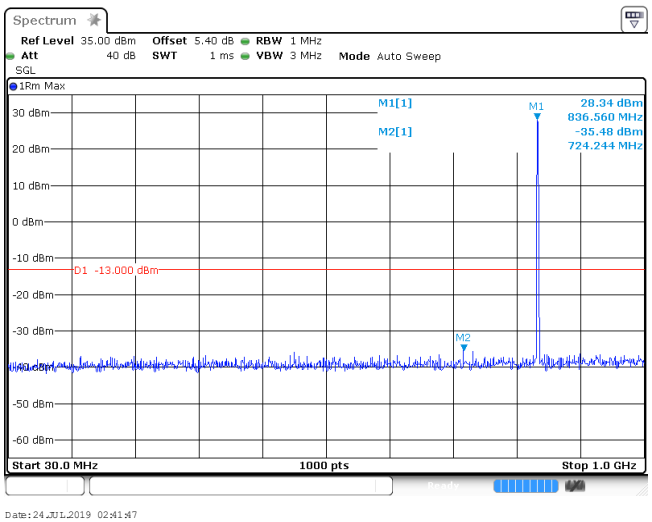

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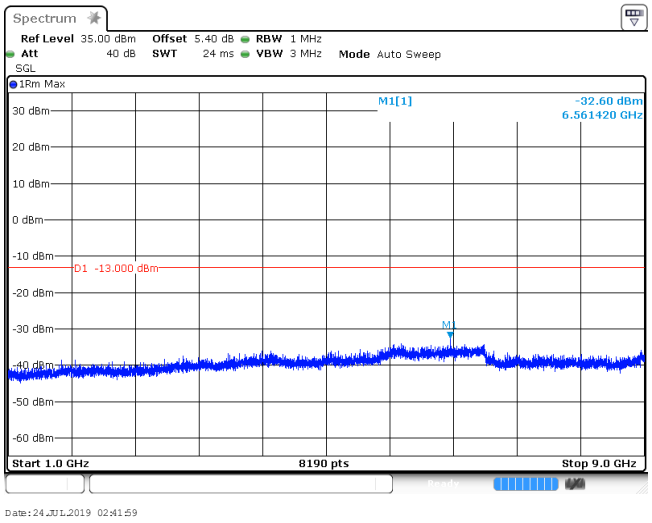

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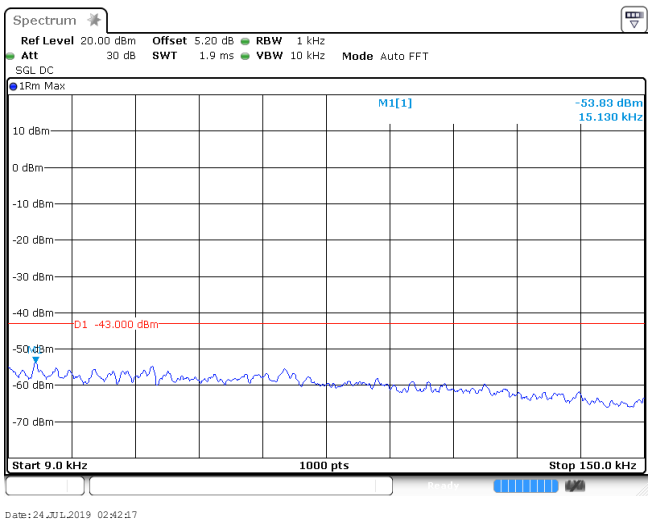

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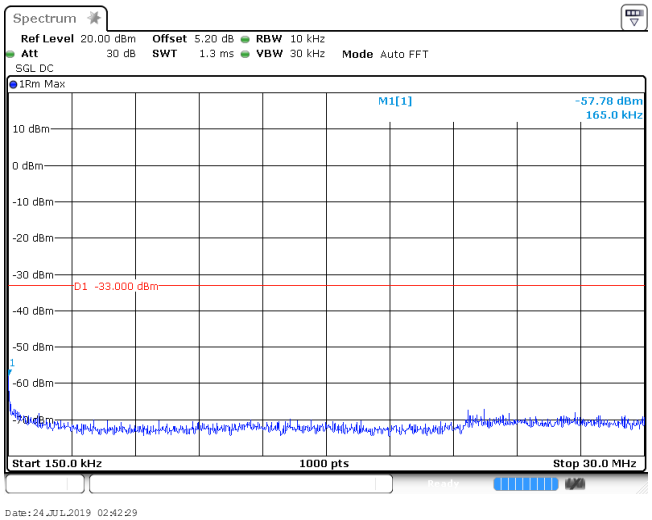

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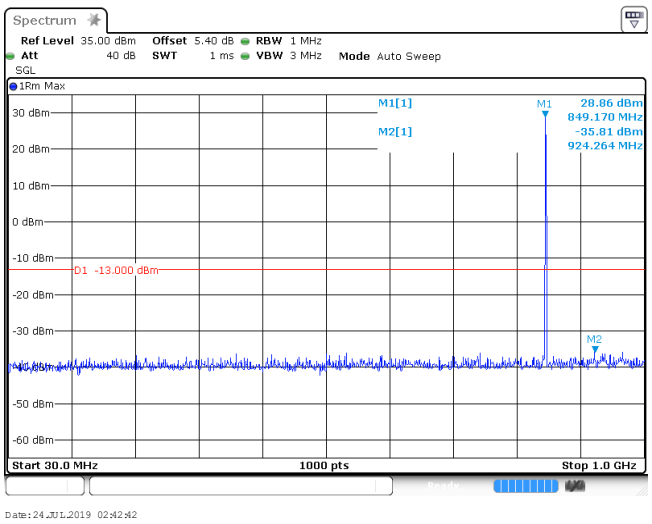

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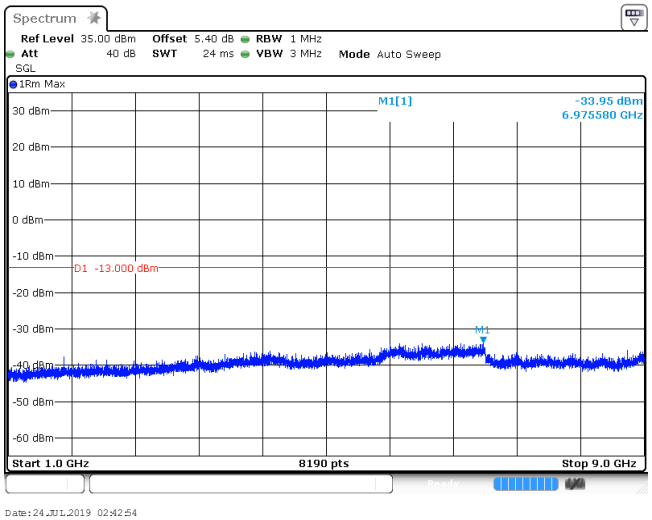

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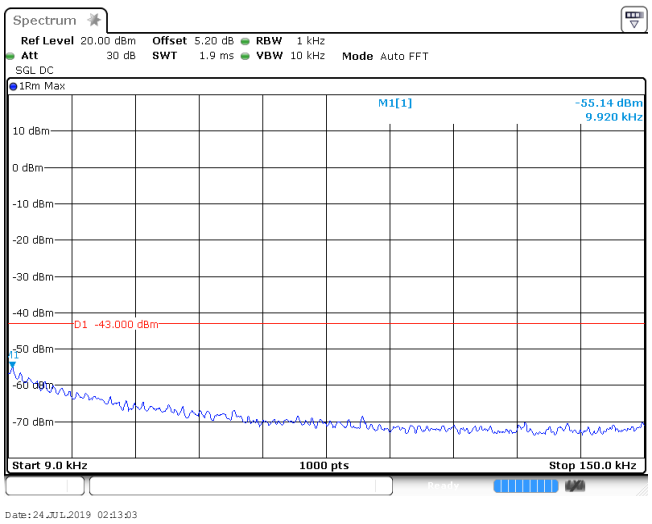

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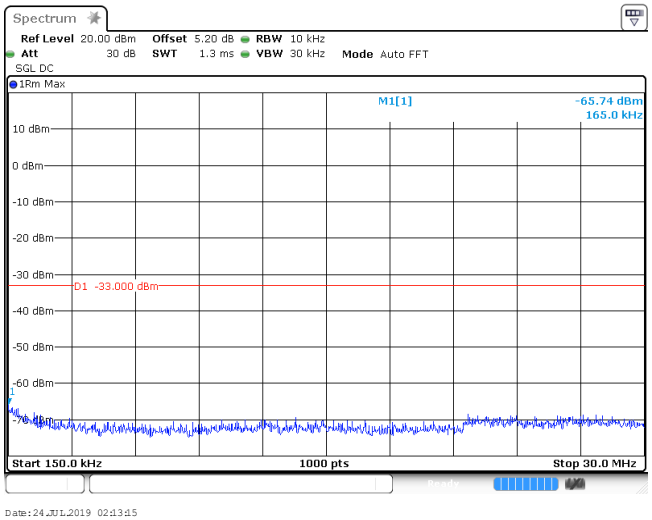

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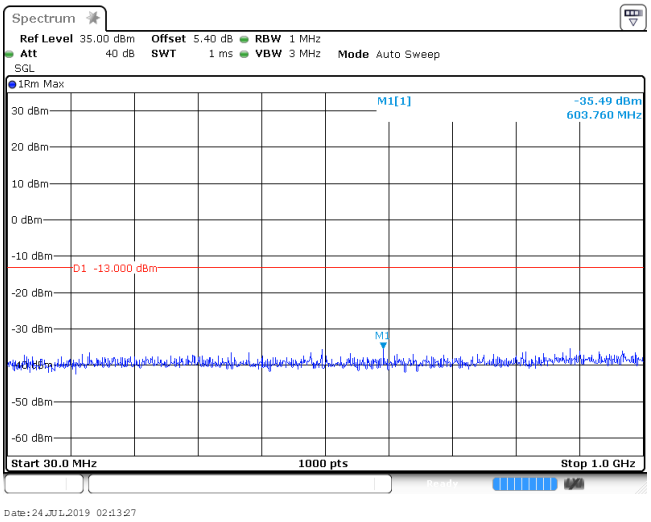

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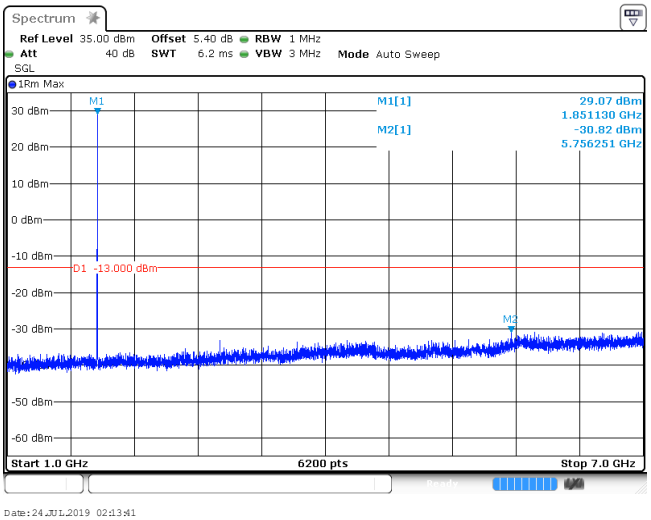

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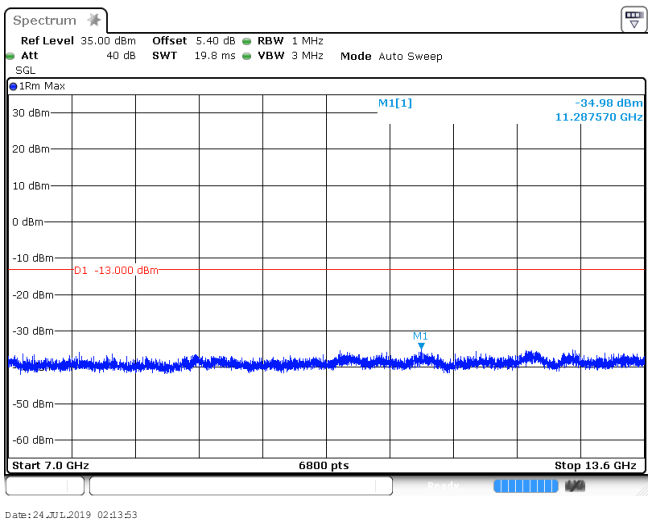

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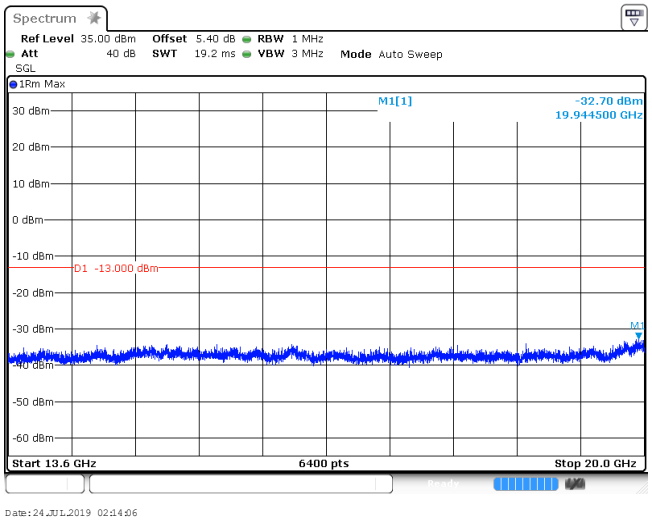

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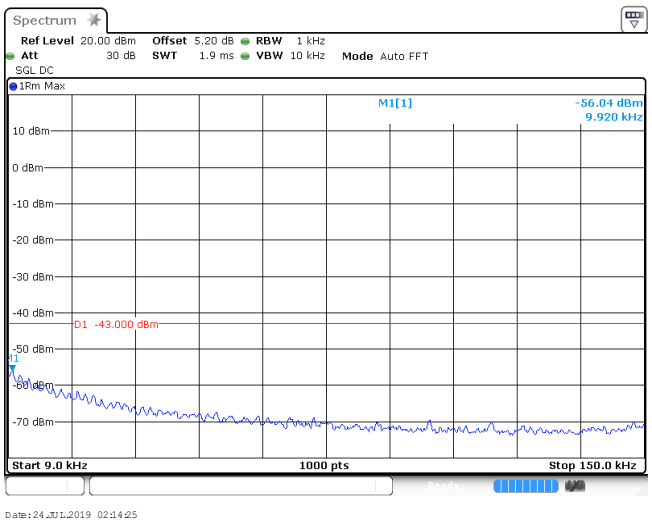

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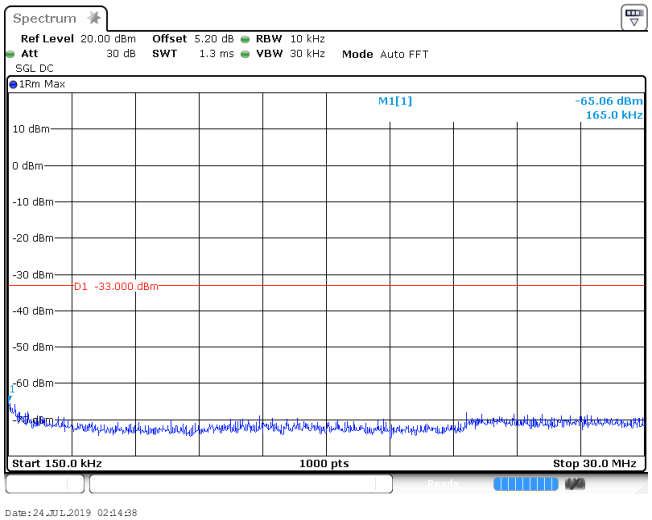

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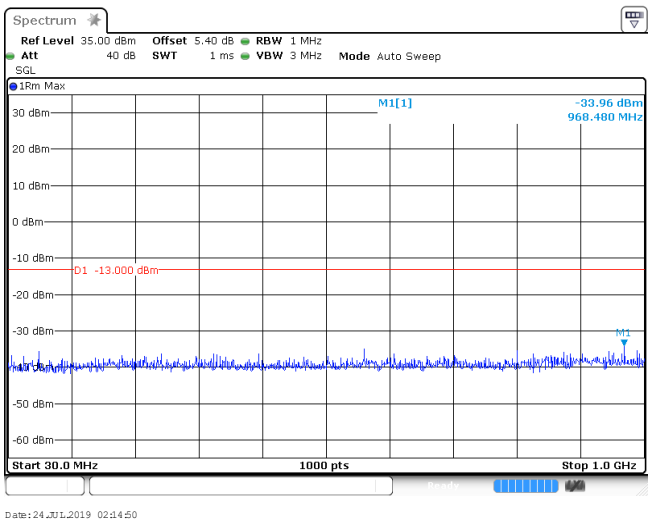

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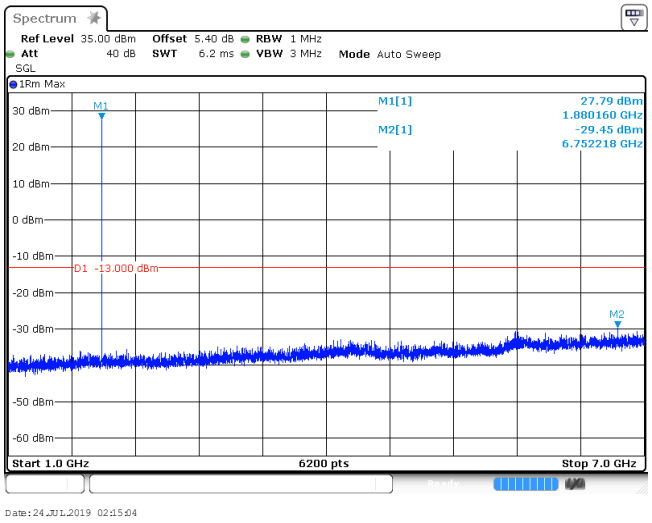

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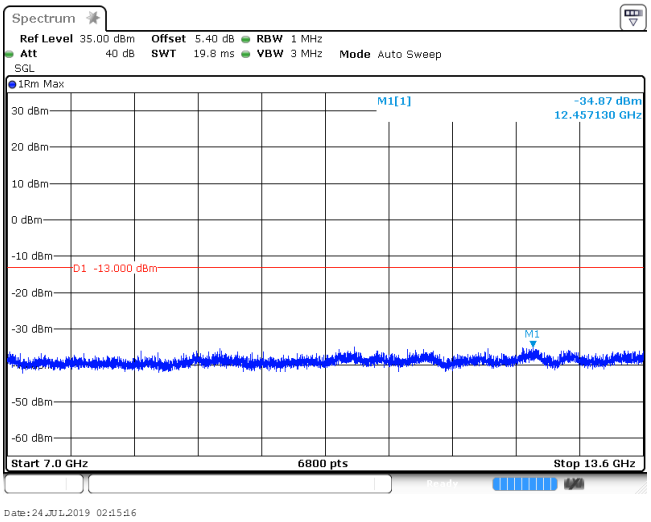

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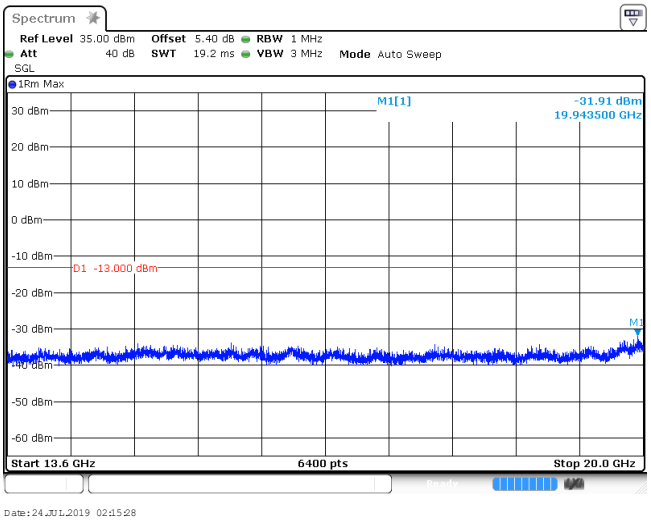

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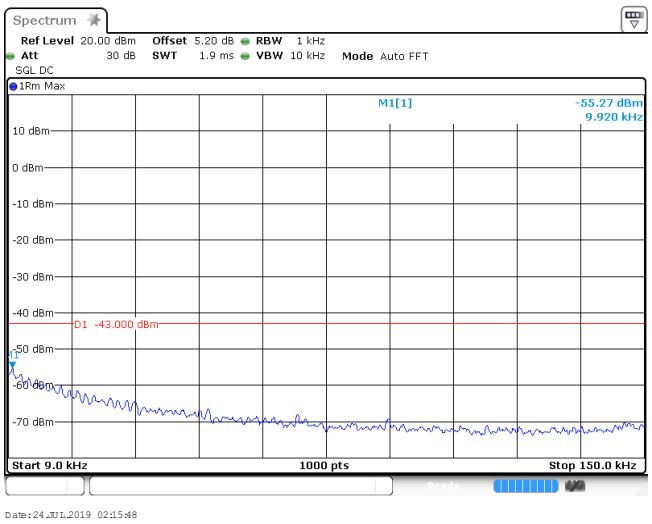

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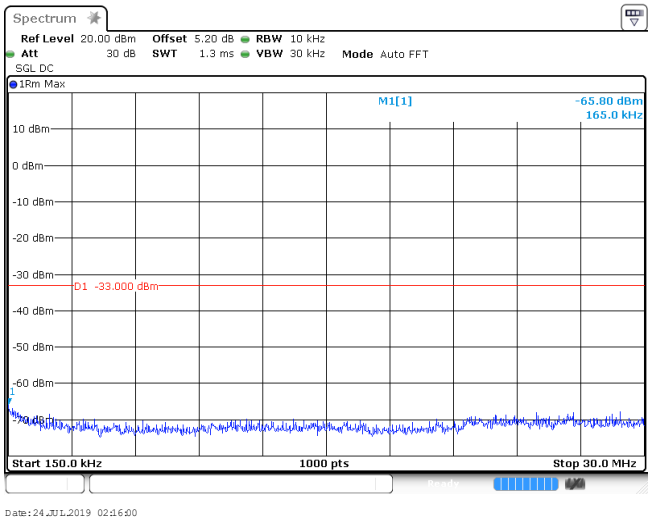

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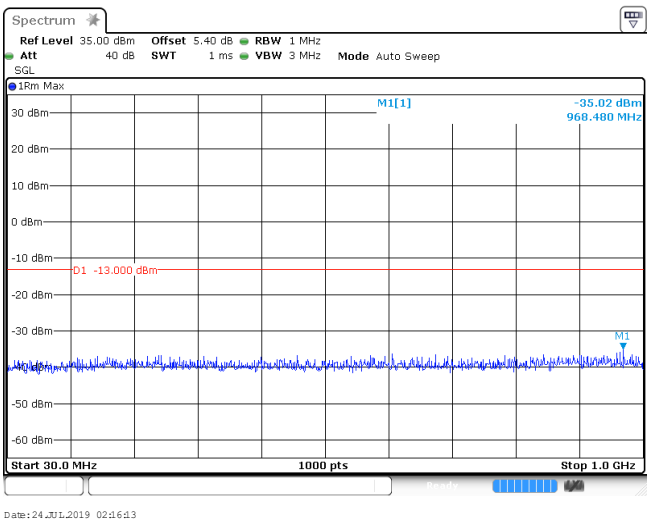

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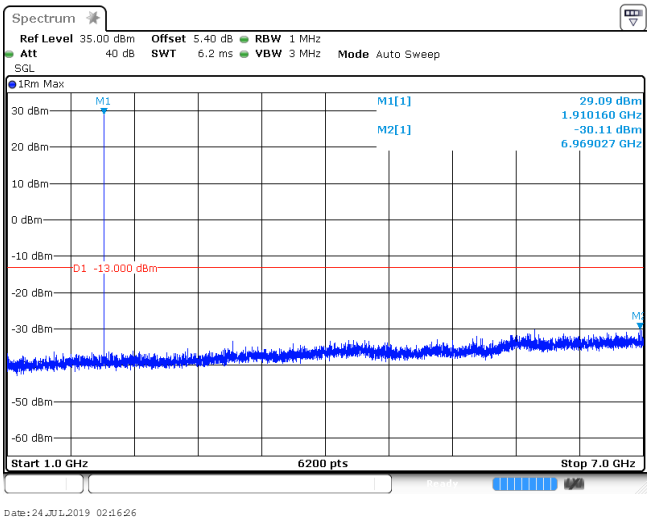

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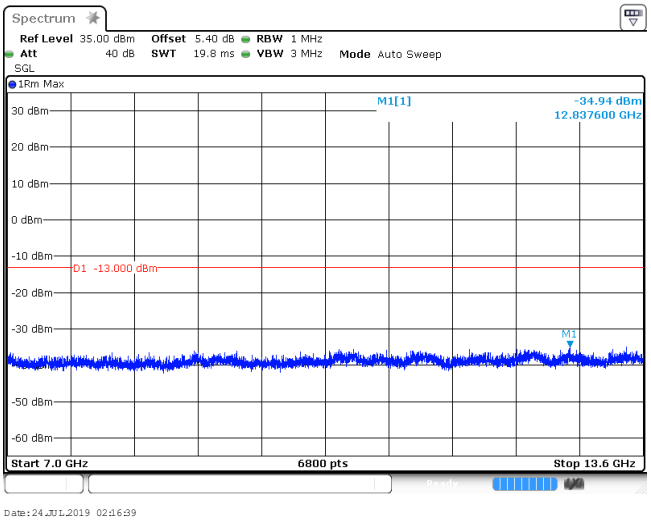

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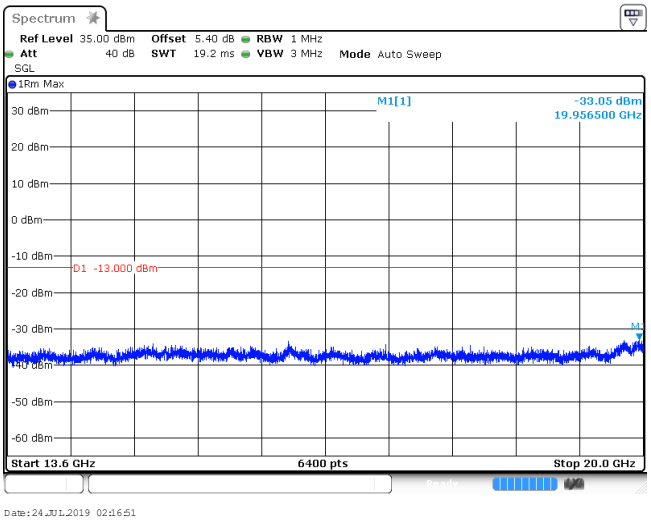

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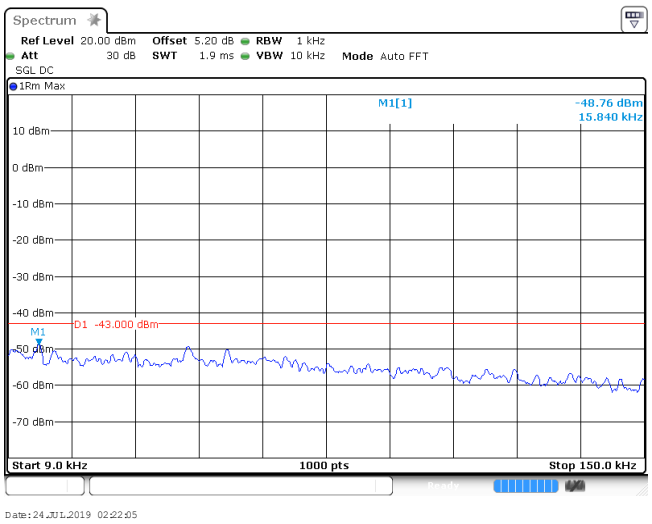

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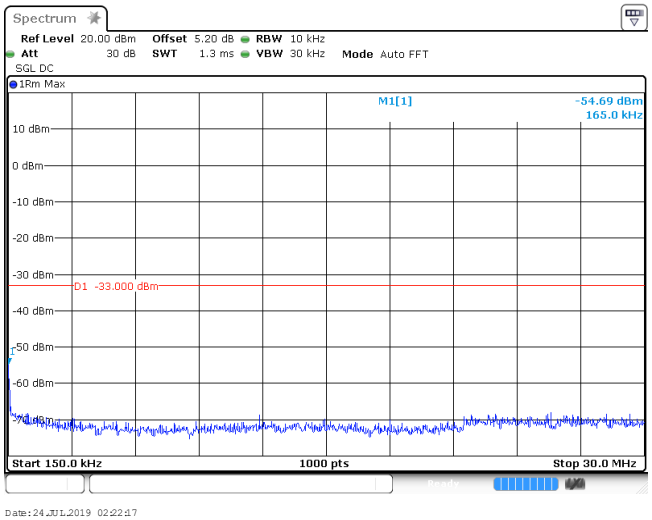

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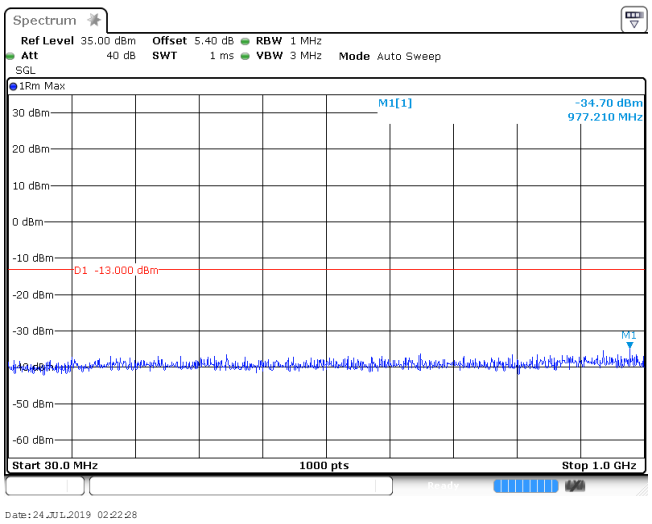

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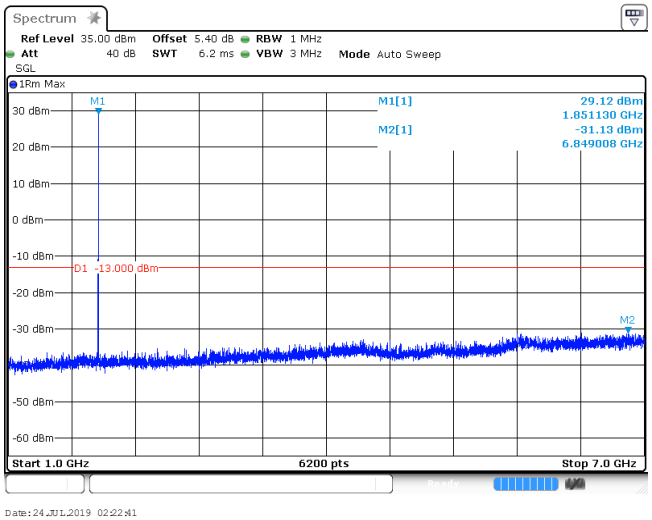

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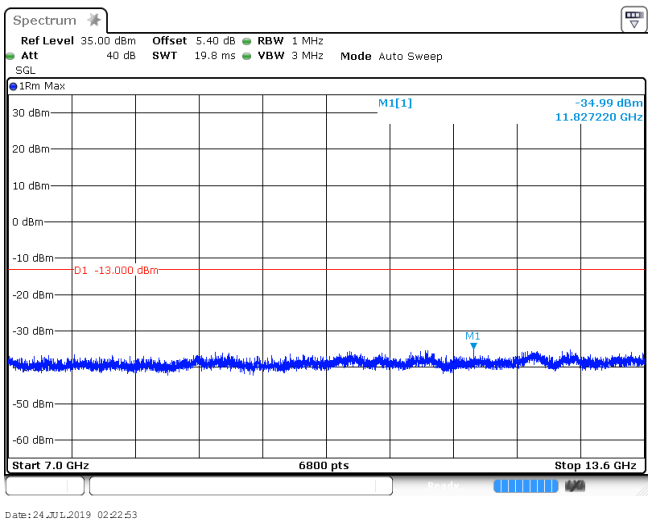

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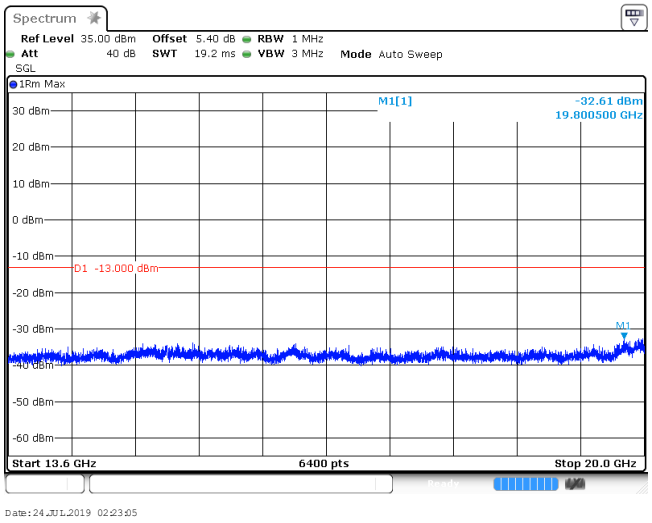

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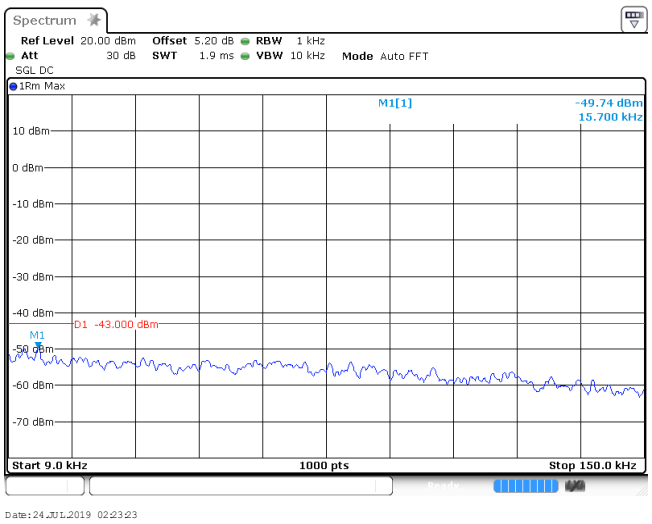

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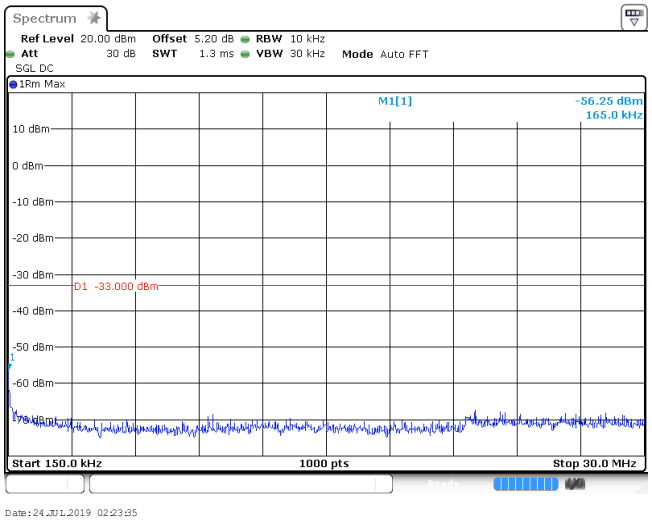

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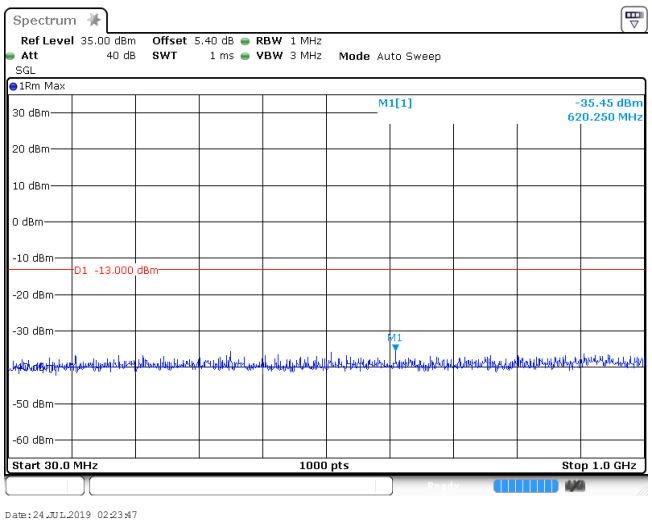

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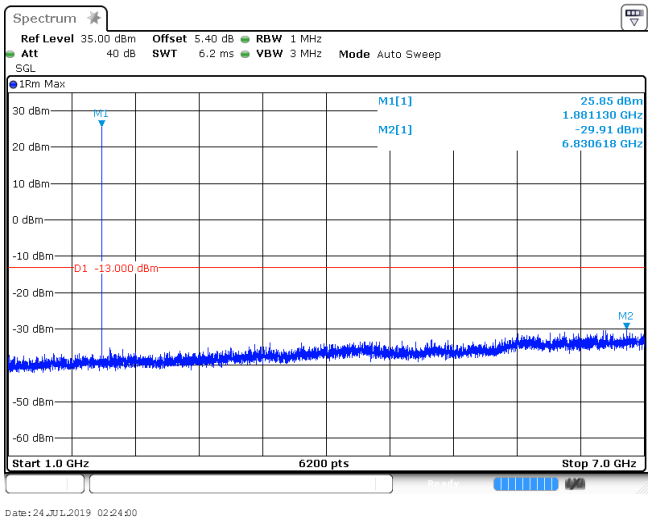

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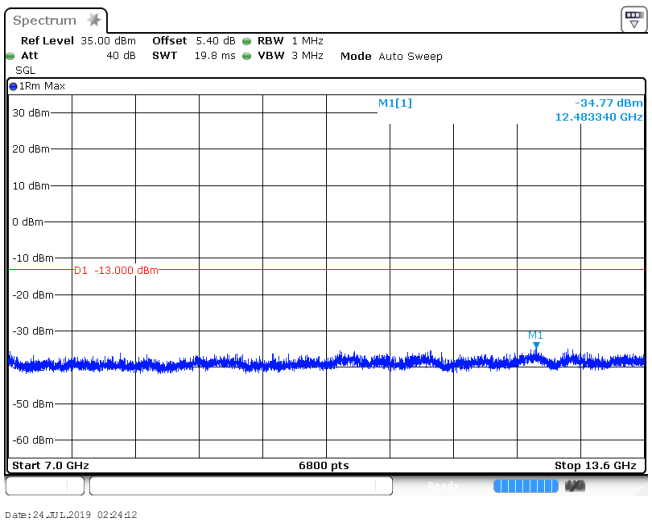

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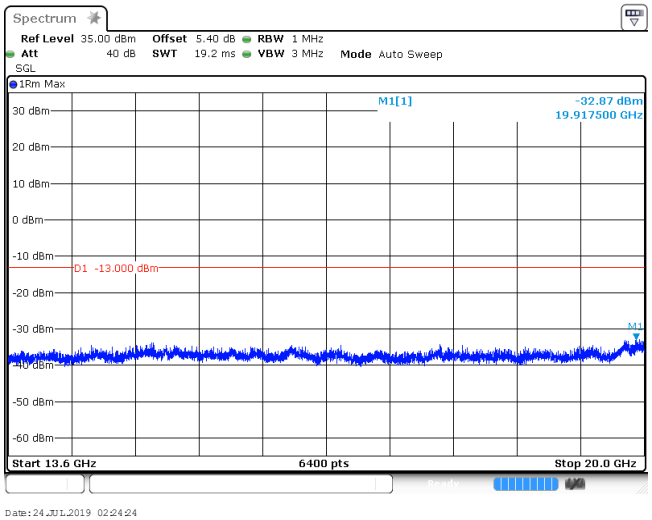

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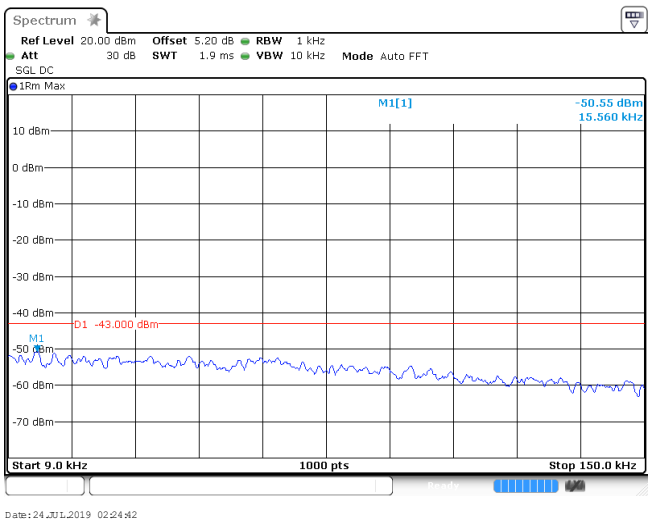

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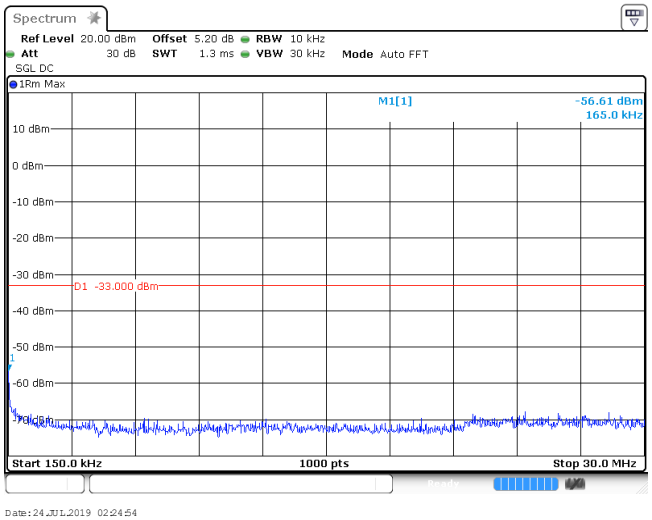

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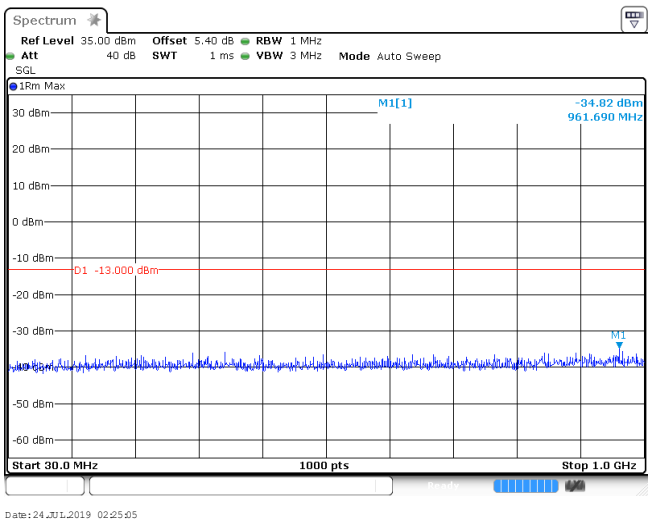

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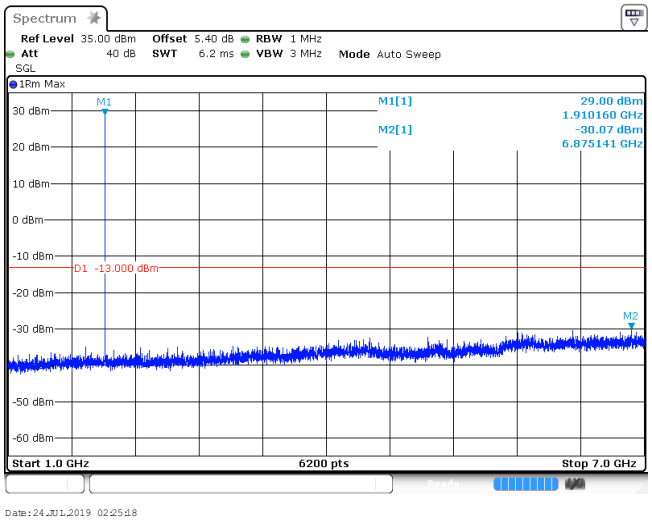

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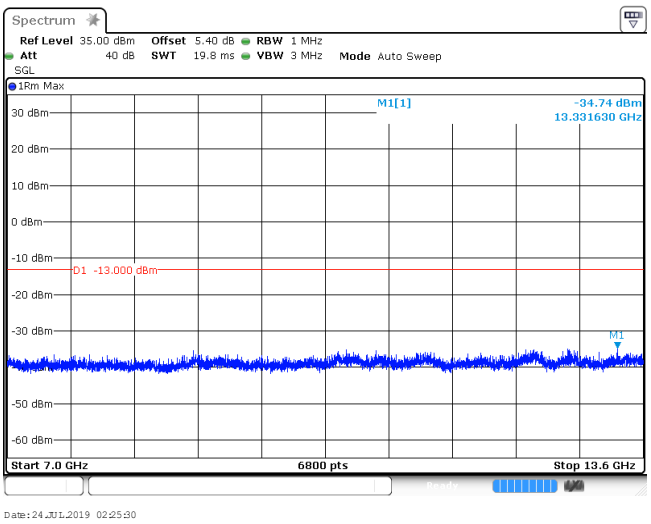

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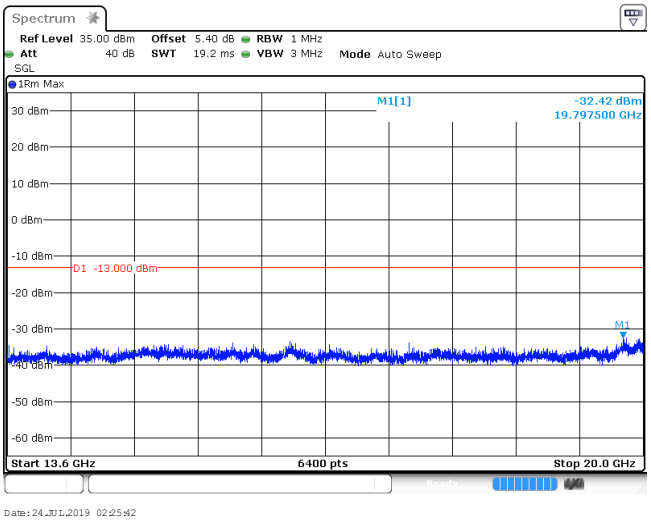

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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 850

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.9691	-63.57	-13.00	50.57	Vertical
527.5864	-65.26	-13.00	52.26	Vertical
1648.1296	-29.58	-13.00	16.58	Vertical
2472.6945	-45.74	-13.00	32.74	Vertical
7363.6455	-53.14	-13.00	40.14	Vertical
17996.4999	-32.56	-13.00	19.56	Vertical
42.0771	-63.37	-13.00	50.37	Horizontal
65.7948	-71.41	-13.00	58.41	Horizontal
231.2851	-67.12	-13.00	54.12	Horizontal
1648.5297	-33.09	-13.00	20.09	Horizontal
2472.6945	-44.28	-13.00	31.28	Horizontal
17994.4998	-37.67	-13.00	24.67	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.0404	-63.90	-13.00	50.90	Vertical
536.1228	-64.80	-13.00	51.80	Vertical
1673.3347	-33.60	-13.00	20.60	Vertical
2509.9020	-42.99	-13.00	29.99	Vertical
10116.7372	-48.01	-13.00	35.01	Vertical
17996.4999	-32.84	-13.00	19.84	Vertical
37.9544	-63.68	-13.00	50.68	Horizontal
232.7886	-67.41	-13.00	54.41	Horizontal
1673.3347	-38.17	-13.00	25.17	Horizontal
2509.9020	-40.76	-13.00	27.76	Horizontal
8027.6676	-53.15	-13.00	40.15	Horizontal
16399.4466	-38.04	-13.00	25.04	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.9991	-64.31	-13.00	51.31	Vertical
389.2575	-66.43	-13.00	53.43	Vertical
1697.7395	-42.04	-13.00	29.04	Vertical
2546.3093	-47.24	-13.00	34.24	Vertical
8554.6852	-52.21	-13.00	39.21	Vertical
17987.9996	-32.94	-13.00	19.94	Vertical
43.2897	-63.72	-13.00	50.72	Horizontal
224.9312	-67.04	-13.00	54.04	Horizontal
1697.7395	-42.85	-13.00	29.85	Horizontal
2546.3093	-44.11	-13.00	31.11	Horizontal
8490.6830	-52.88	-13.00	39.88	Horizontal
17995.4999	-37.51	-13.00	24.51	Horizontal

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7.2. Test Band = GSM 1900

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.7890	-71.84	-13.00	58.84	Vertical
110.6110	-64.66	-13.00	51.66	Vertical
1437.6875	-46.93	-13.00	33.93	Vertical
3700.5234	-48.38	-13.00	35.38	Vertical
5550.5850	-49.61	-13.00	36.61	Vertical
17993.4998	-31.79	-13.00	18.79	Vertical
44.6477	-64.43	-13.00	51.43	Horizontal
107.9434	-72.90	-13.00	59.90	Horizontal
231.1881	-68.29	-13.00	55.29	Horizontal
2697.5395	-36.13	-13.00	23.13	Horizontal
3700.5234	-45.21	-13.00	32.21	Horizontal
16384.4461	-37.42	-13.00	24.42	Horizontal

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
72.0516	-67.16	-13.00	54.16	Vertical
115.8493	-65.17	-13.00	52.17	Vertical
761.3196	-61.94	-13.00	48.94	Vertical
3760.0253	-46.85	-13.00	33.85	Vertical
10527.2509	-46.85	-13.00	33.85	Vertical
17984.9995	-32.07	-13.00	19.07	Vertical
37.3239	-64.53	-13.00	51.53	Horizontal
232.6431	-68.01	-13.00	55.01	Horizontal
2695.1390	-36.43	-13.00	23.43	Horizontal
3760.0253	-45.13	-13.00	32.13	Horizontal
9281.7094	-49.09	-13.00	36.09	Horizontal
17999.0000	-36.58	-13.00	23.58	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-69.61	-13.00	56.61	Vertical
110.8535	-64.17	-13.00	51.17	Vertical
599.2730	-63.71	-13.00	50.71	Vertical
3819.5273	-44.62	-13.00	31.62	Vertical
9047.7016	-49.84	-13.00	36.84	Vertical
17988.4996	-31.78	-13.00	18.78	Vertical
45.6663	-64.20	-13.00	51.20	Horizontal
236.5718	-68.37	-13.00	55.37	Horizontal
2699.5399	-36.17	-13.00	23.17	Horizontal
3819.5273	-44.66	-13.00	31.66	Horizontal
5729.5910	-52.64	-13.00	39.64	Horizontal
17996.9999	-36.97	-13.00	23.97	Horizontal

Remark:

1) 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	TN	3.00	0.003643	±2.5	PASS
GSM850	128	VN	TN	3.33	0.004035	±2.5	PASS
GSM850	128	VH	TN	5.68	0.006894	±2.5	PASS
GSM850	190	VL	TN	6.52	0.007796	±2.5	PASS
GSM850	190	VN	TN	8.27	0.009879	±2.5	PASS
GSM850	190	VH	TN	4.81	0.005750	±2.5	PASS
GSM850	251	VL	TN	5.33	0.006276	±2.5	PASS
GSM850	251	VN	TN	1.94	0.002282	±2.5	PASS
GSM850	251	VH	TN	3.97	0.004679	±2.5	PASS
EGPRS850	128	VL	TN	0.45	0.000548	±2.5	PASS
EGPRS850	128	VN	TN	0.87	0.001058	±2.5	PASS
EGPRS850	128	VH	TN	-6.10	-0.007404	±2.5	PASS
EGPRS850	190	VL	TN	0.71	0.000849	±2.5	PASS
EGPRS850	190	VN	TN	-4.91	-0.005866	±2.5	PASS
EGPRS850	190	VH	TN	-0.16	-0.000193	±2.5	PASS
GSM1900	512	VL	TN	11.27	0.006090	±2.5	PASS
GSM1900	512	VN	TN	7.62	0.004118	±2.5	PASS
GSM1900	512	VH	TN	16.30	0.008812	±2.5	PASS
GSM1900	661	VL	TN	10.56	0.005616	±2.5	PASS
GSM1900	661	VN	TN	6.46	0.003435	±2.5	PASS
GSM1900	661	VH	TN	6.78	0.003606	±2.5	PASS
GSM1900	810	VL	TN	1.78	0.000930	±2.5	PASS
GSM1900	810	VN	TN	10.46	0.005477	±2.5	PASS
GSM1900	810	VH	TN	8.72	0.004564	±2.5	PASS
EGPRS1900	512	VL	TN	3.23	0.001745	±2.5	PASS
EGPRS1900	512	VN	TN	-5.59	-0.003019	±2.5	PASS
EGPRS1900	512	VH	TN	1.58	0.000855	±2.5	PASS
EGPRS1900	661	VL	TN	-0.90	-0.000481	±2.5	PASS
EGPRS1900	661	VN	TN	1.78	0.000945	±2.5	PASS
EGPRS1900	661	VH	TN	0.77	0.000412	±2.5	PASS
EGPRS1900	810	VL	TN	-7.10	-0.003719	±2.5	PASS
EGPRS1900	810	VN	TN	-4.94	-0.002587	±2.5	PASS
EGPRS1900	810	VH	TN	-0.84	-0.000440	±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	VN	-30	0.97	0.001175	±2.5	PASS
GSM850	128	VN	-20	4.07	0.004936	±2.5	PASS
GSM850	128	VN	-10	3.39	0.004113	±2.5	PASS
GSM850	128	VN	0	8.59	0.010420	±2.5	PASS
GSM850	128	VN	10	11.66	0.014141	±2.5	PASS
GSM850	128	VN	20	10.78	0.013084	±2.5	PASS
GSM850	128	VN	30	9.14	0.011086	±2.5	PASS
GSM850	128	VN	40	9.69	0.011752	±2.5	PASS
GSM850	128	VN	50	7.10	0.008618	±2.5	PASS
GSM850	190	VN	-30	6.30	0.007525	±2.5	PASS
GSM850	190	VN	-20	2.26	0.002701	±2.5	PASS
GSM850	190	VN	-10	3.07	0.003666	±2.5	PASS
GSM850	190	VN	0	4.75	0.005673	±2.5	PASS
GSM850	190	VN	10	5.17	0.006175	±2.5	PASS
GSM850	190	VN	20	8.36	0.009995	±2.5	PASS
GSM850	190	VN	30	3.87	0.004631	±2.5	PASS
GSM850	190	VN	40	-2.07	-0.002470	±2.5	PASS
GSM850	190	VN	50	-2.62	-0.003126	±2.5	PASS
GSM850	251	VN	-30	-0.19	-0.000228	±2.5	PASS
GSM850	251	VN	-20	2.36	0.002777	±2.5	PASS
GSM850	251	VN	-10	5.36	0.006314	±2.5	PASS
GSM850	251	VN	0	5.78	0.006809	±2.5	PASS
GSM850	251	VN	10	1.39	0.001636	±2.5	PASS
GSM850	251	VN	20	-0.16	-0.000190	±2.5	PASS
GSM850	251	VN	30	2.97	0.003499	±2.5	PASS
GSM850	251	VN	40	4.52	0.005325	±2.5	PASS
GSM850	251	VN	50	6.59	0.007760	±2.5	PASS
EGPRS850	128	VN	-30	-3.42	-0.004152	±2.5	PASS
EGPRS850	128	VN	-20	-0.13	-0.000157	±2.5	PASS
EGPRS850	128	VN	-10	1.07	0.001293	±2.5	PASS
EGPRS850	128	VN	0	-1.45	-0.001763	±2.5	PASS
EGPRS850	128	VN	10	2.58	0.003134	±2.5	PASS
EGPRS850	128	VN	20	13.33	0.016178	±2.5	PASS
EGPRS850	128	VN	30	9.65	0.011713	±2.5	PASS
EGPRS850	128	VN	40	4.29	0.005210	±2.5	PASS
EGPRS850	128	VN	50	8.49	0.010302	±2.5	PASS
EGPRS850	190	VN	-30	-0.16	-0.000193	±2.5	PASS
EGPRS850	190	VN	-20	-3.84	-0.004592	±2.5	PASS
EGPRS850	190	VN	-10	-1.55	-0.001852	±2.5	PASS
EGPRS850	190	VN	0	-1.68	-0.002007	±2.5	PASS
EGPRS850	190	VN	10	-0.90	-0.001081	±2.5	PASS

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EGPRS850	190	VN	20	5.46	0.006522	±2.5	PASS
EGPRS850	190	VN	30	1.58	0.001891	±2.5	PASS
EGPRS850	190	VN	40	1.49	0.001775	±2.5	PASS
EGPRS850	190	VN	50	4.36	0.005210	±2.5	PASS
GSM1900	512	VN	-30	8.27	0.004467	±2.5	PASS
GSM1900	512	VN	-20	9.52	0.005148	±2.5	PASS
GSM1900	512	VN	-10	8.43	0.004554	±2.5	PASS
GSM1900	512	VN	0	20.60	0.011133	±2.5	PASS
GSM1900	512	VN	10	25.44	0.013751	±2.5	PASS
GSM1900	512	VN	20	28.35	0.015321	±2.5	PASS
GSM1900	512	VN	30	25.47	0.013768	±2.5	PASS
GSM1900	512	VN	40	16.95	0.009161	±2.5	PASS
GSM1900	512	VN	50	18.73	0.010121	±2.5	PASS
GSM1900	661	VN	-30	11.33	0.006028	±2.5	PASS
GSM1900	661	VN	-20	8.91	0.004740	±2.5	PASS
GSM1900	661	VN	-10	9.30	0.004946	±2.5	PASS
GSM1900	661	VN	0	16.47	0.008758	±2.5	PASS
GSM1900	661	VN	10	18.02	0.009583	±2.5	PASS
GSM1900	661	VN	20	15.59	0.008295	±2.5	PASS
GSM1900	661	VN	30	13.30	0.007075	±2.5	PASS
GSM1900	661	VN	40	5.81	0.003091	±2.5	PASS
GSM1900	661	VN	50	12.46	0.006629	±2.5	PASS
GSM1900	810	VN	-30	9.52	0.004987	±2.5	PASS
GSM1900	810	VN	-20	5.23	0.002739	±2.5	PASS
GSM1900	810	VN	-10	5.84	0.003060	±2.5	PASS
GSM1900	810	VN	0	7.94	0.004159	±2.5	PASS
GSM1900	810	VN	10	8.23	0.004311	±2.5	PASS
GSM1900	810	VN	20	-13.46	-0.007050	±2.5	PASS
GSM1900	810	VN	30	3.58	0.001876	±2.5	PASS
GSM1900	810	VN	40	15.21	0.007962	±2.5	PASS
GSM1900	810	VN	50	5.36	0.002806	±2.5	PASS
EGPRS1900	512	VN	-30	5.78	0.003124	±2.5	PASS
EGPRS1900	512	VN	-20	6.59	0.003560	±2.5	PASS
EGPRS1900	512	VN	-10	8.65	0.004677	±2.5	PASS
EGPRS1900	512	VN	0	8.23	0.004450	±2.5	PASS
EGPRS1900	512	VN	10	20.70	0.011185	±2.5	PASS
EGPRS1900	512	VN	20	24.67	0.013332	±2.5	PASS
EGPRS1900	512	VN	30	21.28	0.011499	±2.5	PASS
EGPRS1900	512	VN	40	28.12	0.015199	±2.5	PASS
EGPRS1900	512	VN	50	19.82	0.010714	±2.5	PASS
EGPRS1900	661	VN	-30	0.32	0.000172	±2.5	PASS
EGPRS1900	661	VN	-20	2.42	0.001288	±2.5	PASS
EGPRS1900	661	VN	-10	2.26	0.001202	±2.5	PASS
EGPRS1900	661	VN	0	1.29	0.000687	±2.5	PASS
EGPRS1900	661	VN	10	10.69	0.005684	±2.5	PASS
EGPRS1900	661	VN	20	10.27	0.005461	±2.5	PASS
EGPRS1900	661	VN	30	9.23	0.004912	±2.5	PASS

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EGPRS1900	661	VN	40	12.14	0.006457	±2.5	PASS
EGPRS1900	661	VN	50	11.27	0.005993	±2.5	PASS
EGPRS1900	810	VN	-30	2.62	0.001369	±2.5	PASS
EGPRS1900	810	VN	-20	-2.16	-0.001133	±2.5	PASS
EGPRS1900	810	VN	-10	6.10	0.003195	±2.5	PASS
EGPRS1900	810	VN	0	-1.10	-0.000575	±2.5	PASS
EGPRS1900	810	VN	10	7.65	0.004007	±2.5	PASS
EGPRS1900	810	VN	20	12.69	0.006644	±2.5	PASS
EGPRS1900	810	VN	30	8.88	0.004649	±2.5	PASS
EGPRS1900	810	VN	40	17.63	0.009230	±2.5	PASS
EGPRS1900	810	VN	50	6.75	0.003533	±2.5	PASS

The End

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