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	---	32.38	26.63	38.45	PASS
GSM850	190	---	32.46	26.71	38.45	PASS
GSM850	251	---	32.58	26.83	38.45	PASS
EGPRS850	128	1	26.57	20.82	38.45	PASS
EGPRS850	128	2	24.91	19.16	38.45	PASS
EGPRS850	128	3	22.56	16.81	38.45	PASS
EGPRS850	128	4	21.87	16.12	38.45	PASS
EGPRS850	190	1	26.61	20.86	38.45	PASS
EGPRS850	190	2	25.08	19.33	38.45	PASS
EGPRS850	190	3	22.54	16.79	38.45	PASS
EGPRS850	190	4	21.85	16.1	38.45	PASS
EGPRS850	251	1	26.67	20.92	38.45	PASS
EGPRS850	251	2	25.14	19.39	38.45	PASS
EGPRS850	251	3	22.62	16.87	38.45	PASS
EGPRS850	251	4	21.93	16.18	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.82	27.72	33.00	PASS
GSM1900	661	---	29.93	27.83	33.00	PASS
GSM1900	810	---	29.98	27.88	33.00	PASS
EGPRS1900	512	1	25.27	23.17	33.00	PASS
EGPRS1900	512	2	24.73	22.63	33.00	PASS
EGPRS1900	512	3	22.62	20.52	33.00	PASS
EGPRS1900	512	4	21.39	19.29	33.00	PASS
EGPRS1900	661	1	25.24	23.14	33.00	PASS
EGPRS1900	661	2	24.67	22.57	33.00	PASS
EGPRS1900	661	3	22.70	20.6	33.00	PASS
EGPRS1900	661	4	21.46	19.36	33.00	PASS
EGPRS1900	810	1	25.12	23.02	33.00	PASS
EGPRS1900	810	2	24.70	22.6	33.00	PASS
EGPRS1900	810	3	22.64	20.54	33.00	PASS
EGPRS1900	810	4	21.67	19.57	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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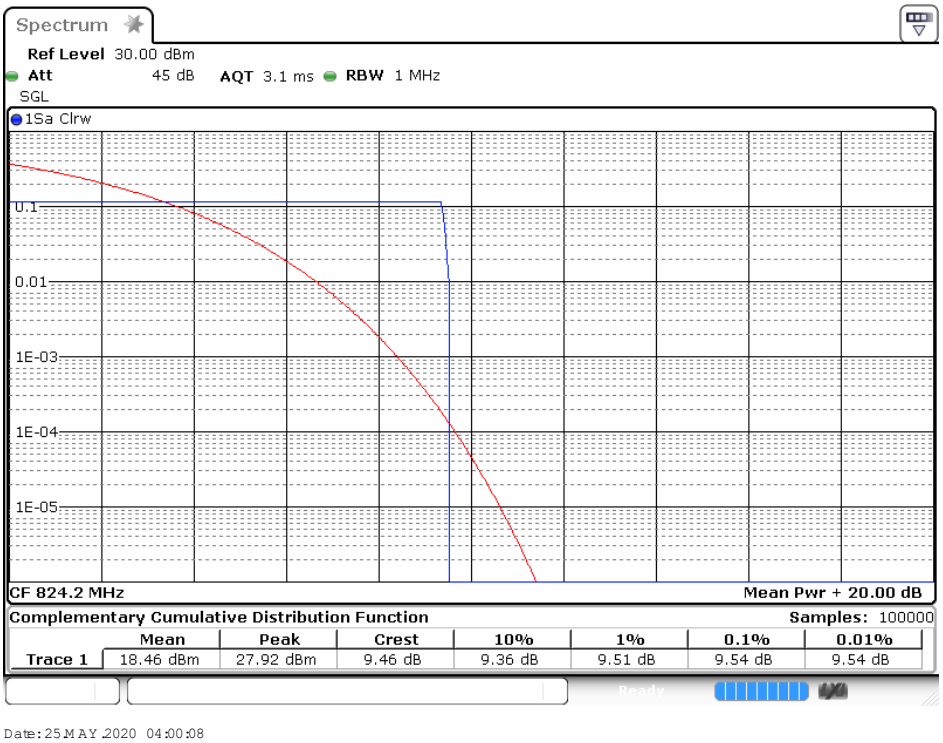
2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	0.14	13	PASS
GSM850	190	0.13	13	PASS
GSM850	251	0.12	13	PASS
EGPRS850	190	2.94	13	PASS
GSM1900	512	0.40	13	PASS
GSM1900	661	0.32	13	PASS
GSM1900	810	0.25	13	PASS
EGPRS1900	512	10.46	13	PASS
EGPRS1900	661	10.96	13	PASS
EGPRS1900	810	11.25	13	PASS

2.2. Part II - Test Plots

GSM850_128



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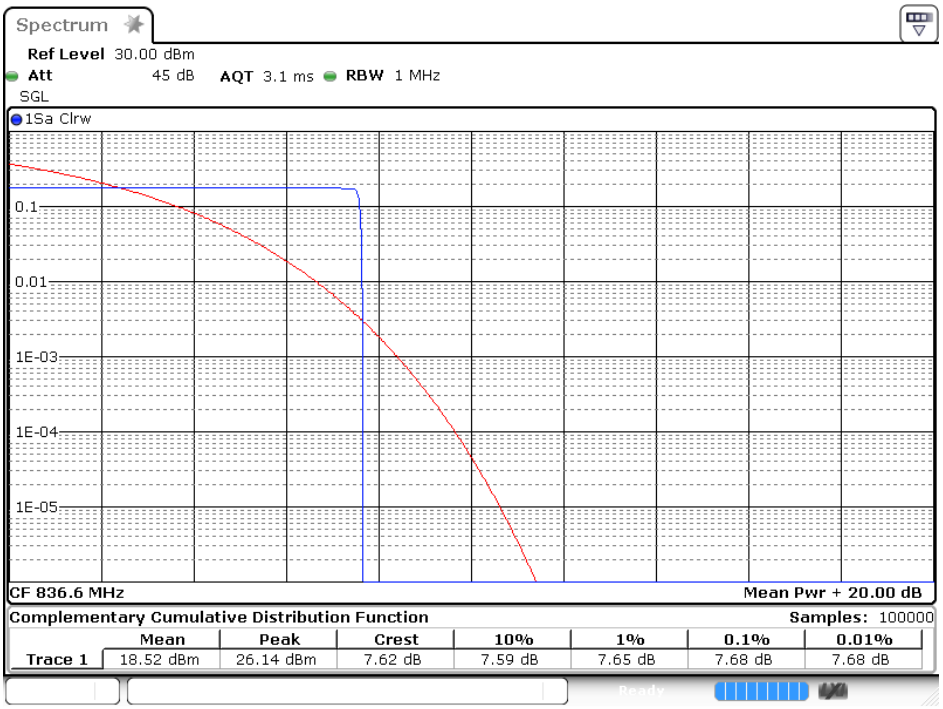

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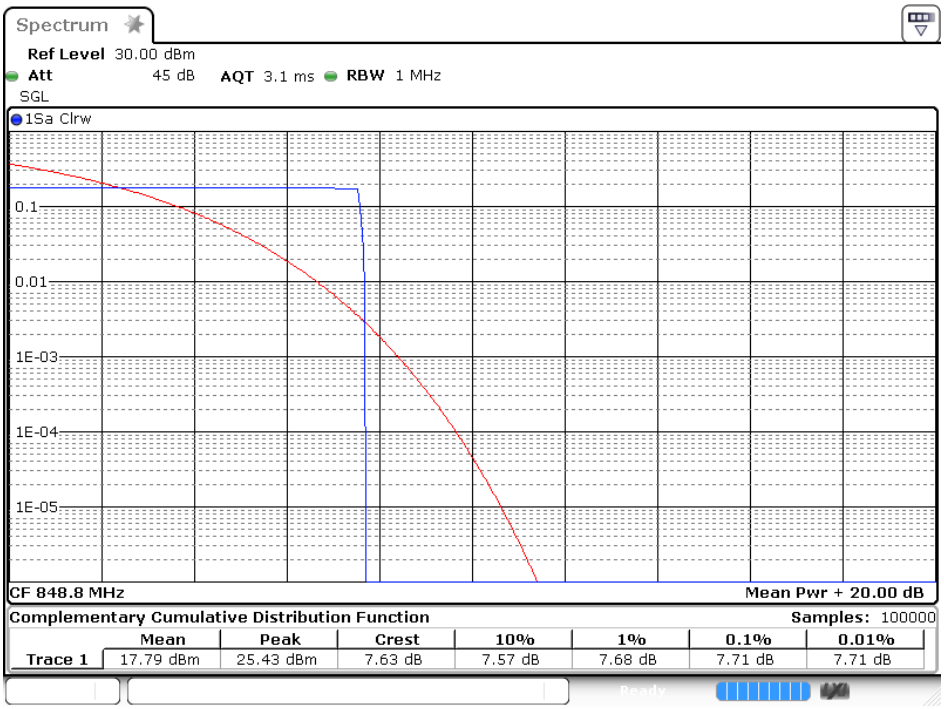

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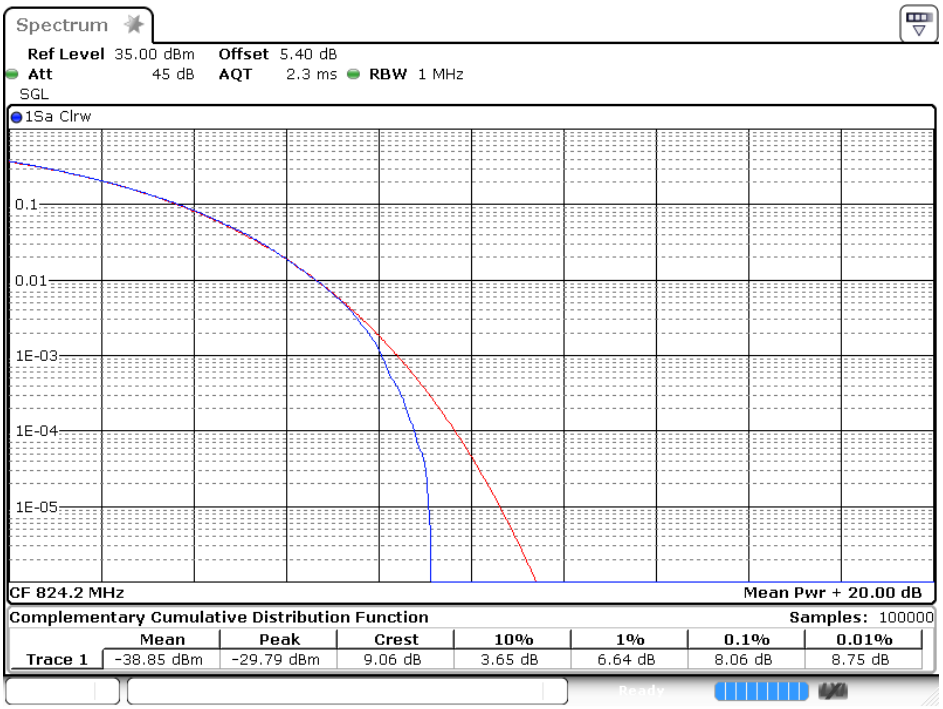

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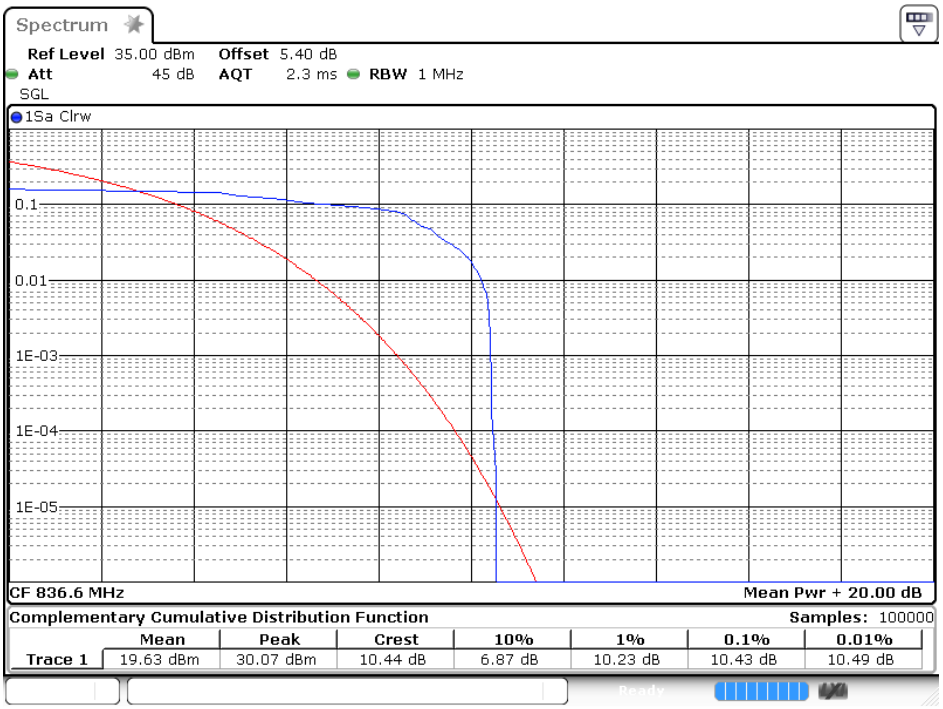

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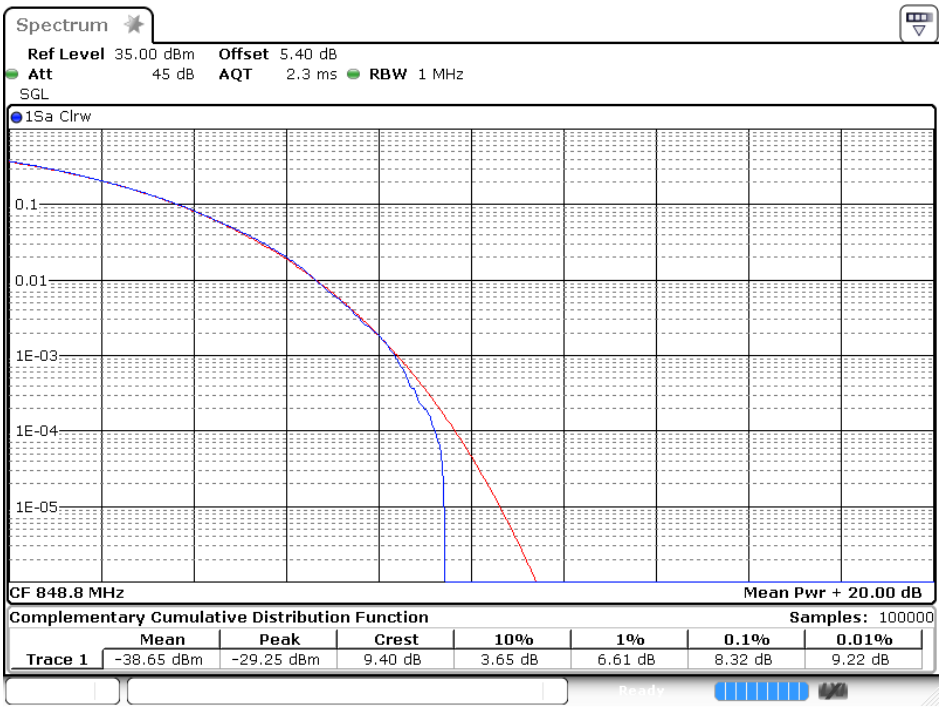

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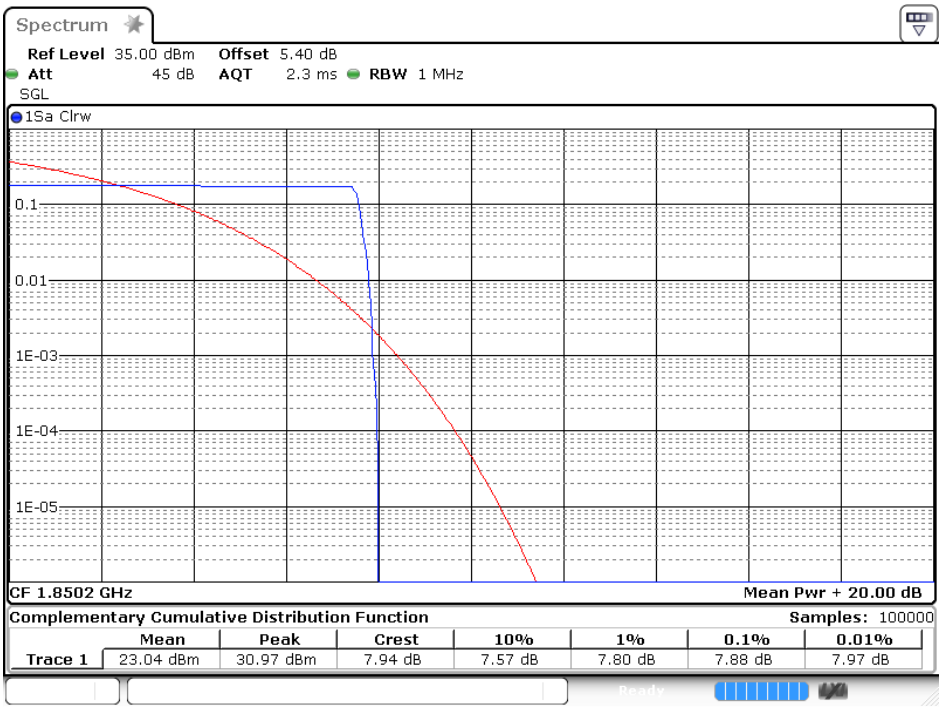

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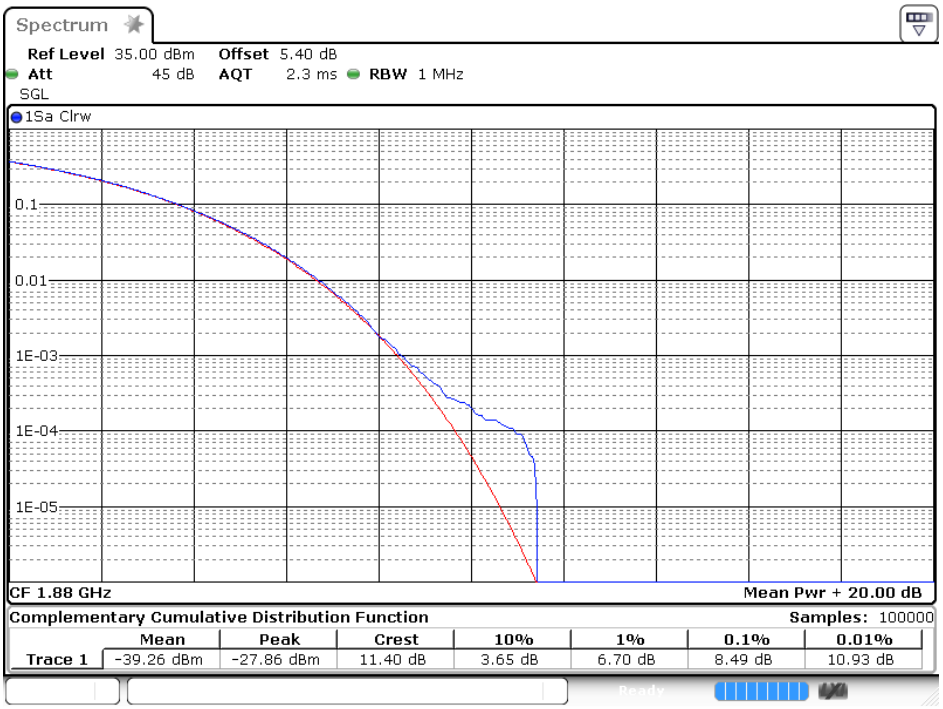

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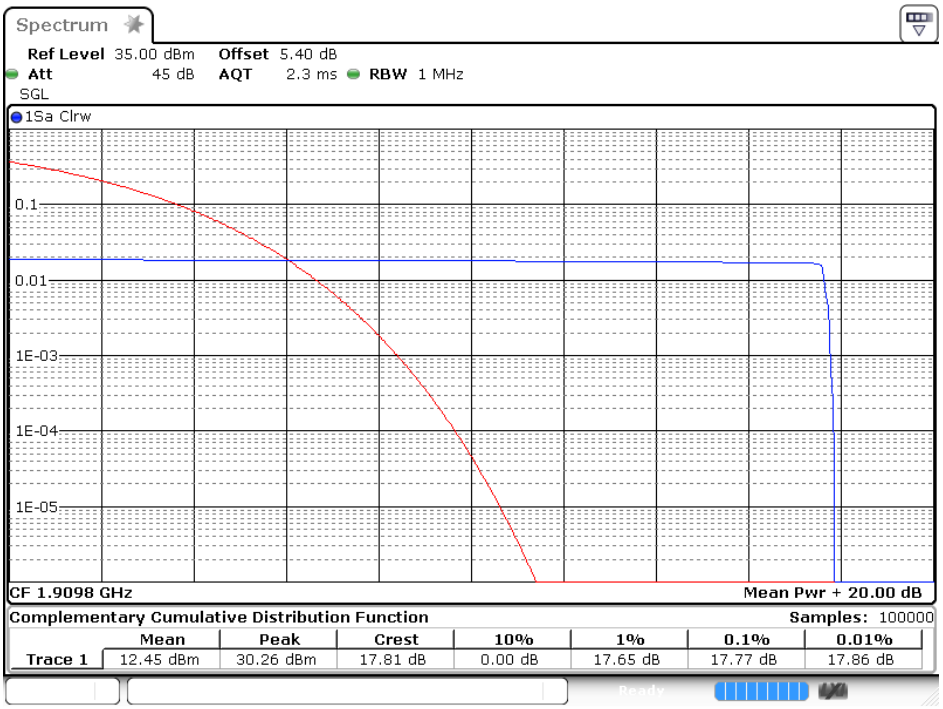

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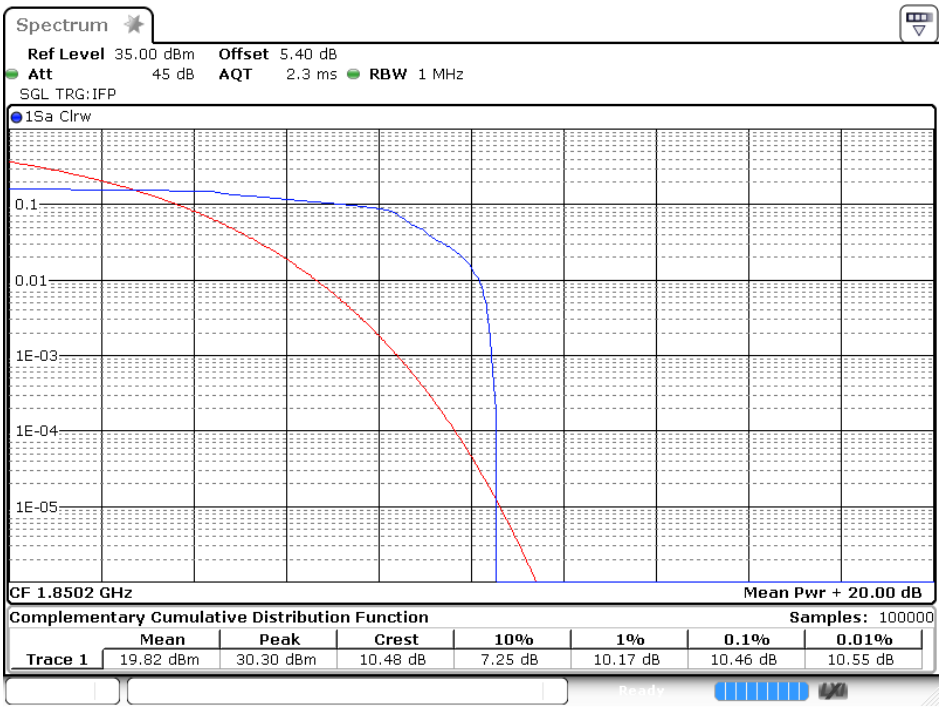

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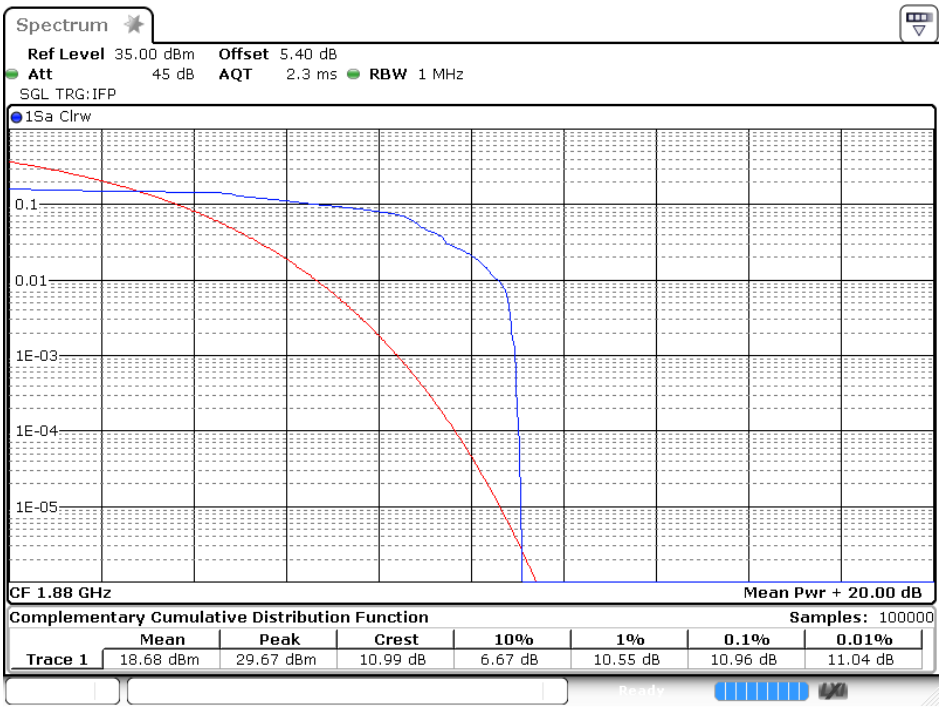

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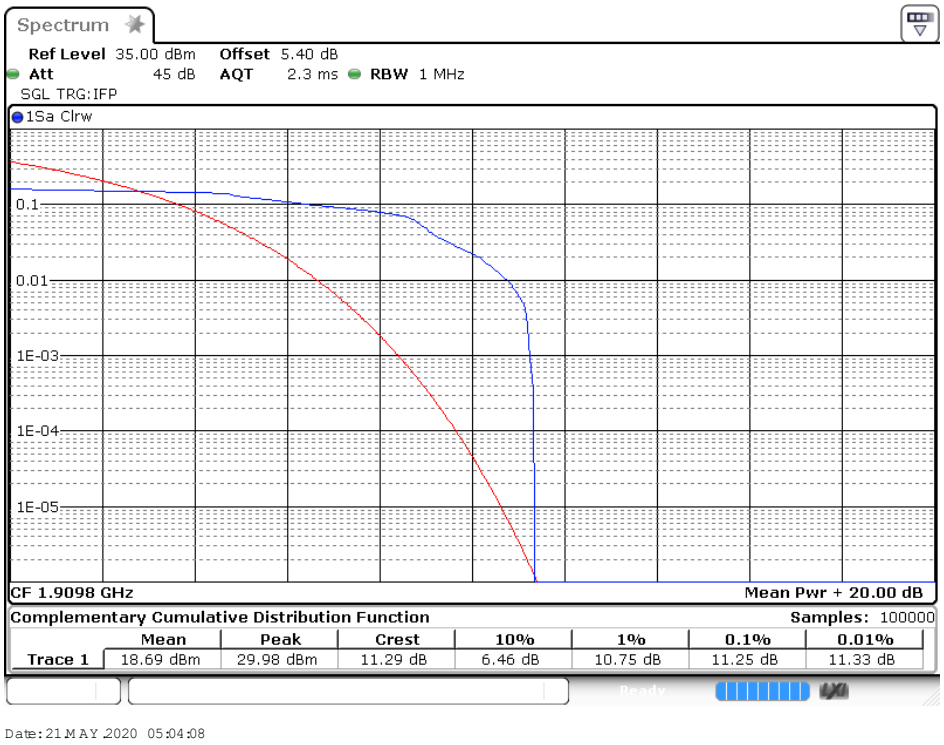

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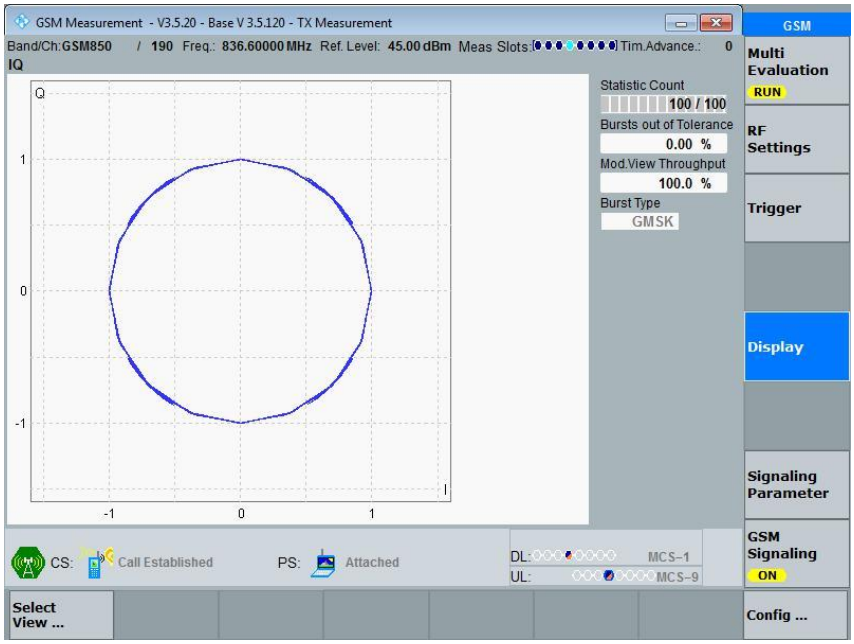
3. Modulation Characteristics

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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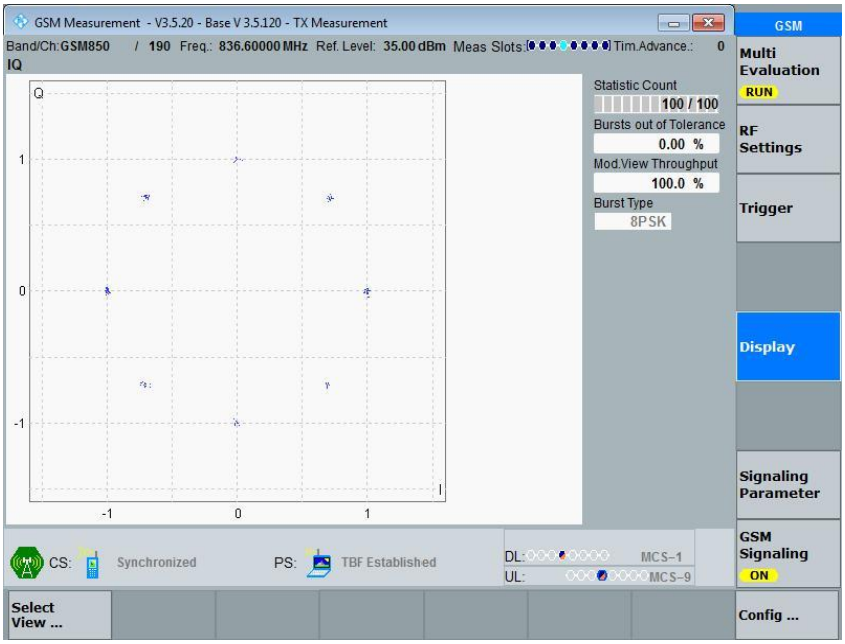
3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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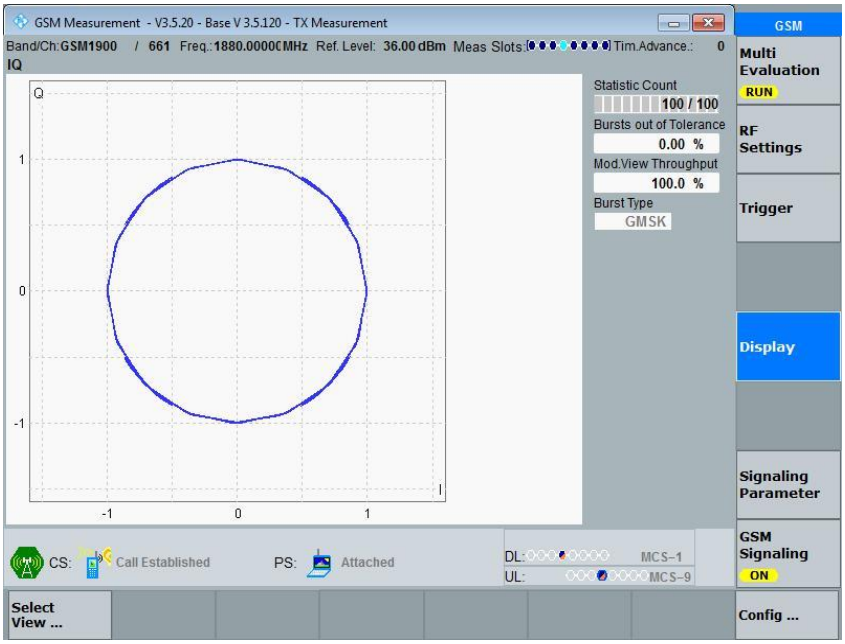
3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



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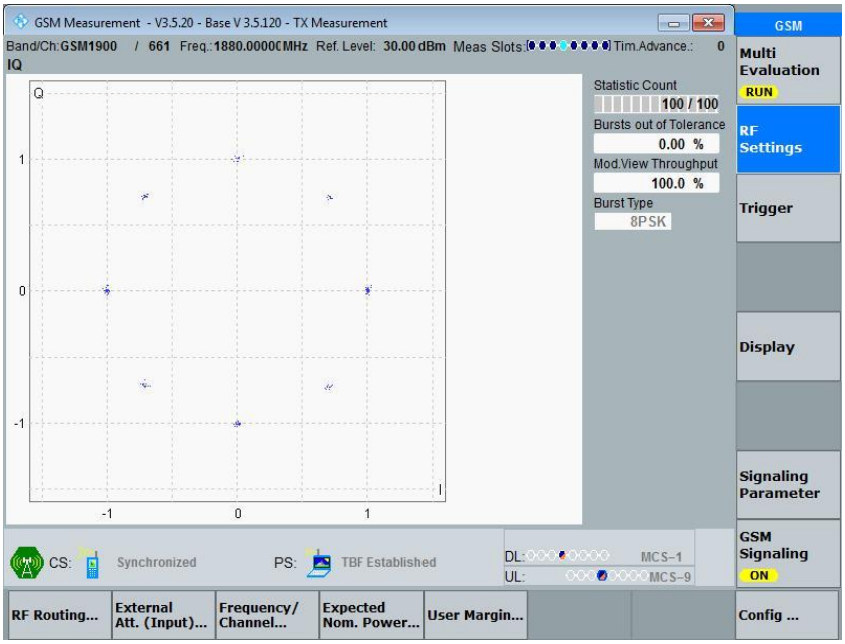
3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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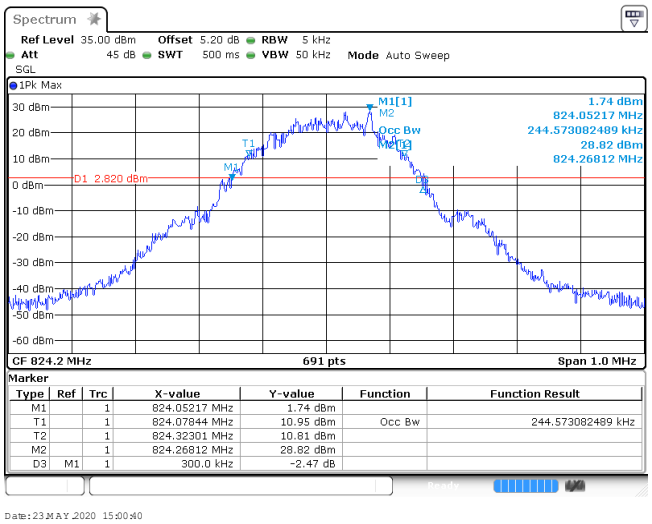
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	244.6	300	---	PASS
GSM850	190	243.1	300	---	PASS
GSM850	251	243.1	301	---	PASS
EGPRS850	128	248.9	301	---	PASS
EGPRS850	190	250.4	300	---	PASS
EGPRS850	251	240.2	303	---	PASS
GSM1900	512	244.6	303	---	PASS
GSM1900	661	243.1	307	---	PASS
GSM1900	810	244.6	287	---	PASS
EGPRS1900	512	243.13	289.86	---	PASS
EGPRS1900	661	247.47	295.65	---	PASS
EGPRS1900	810	244.57	295.65	---	PASS

4.2. Test Plots

GSM850_128



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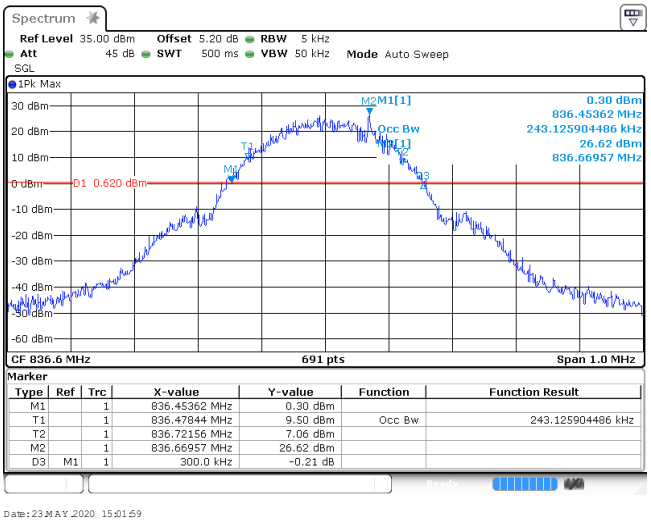

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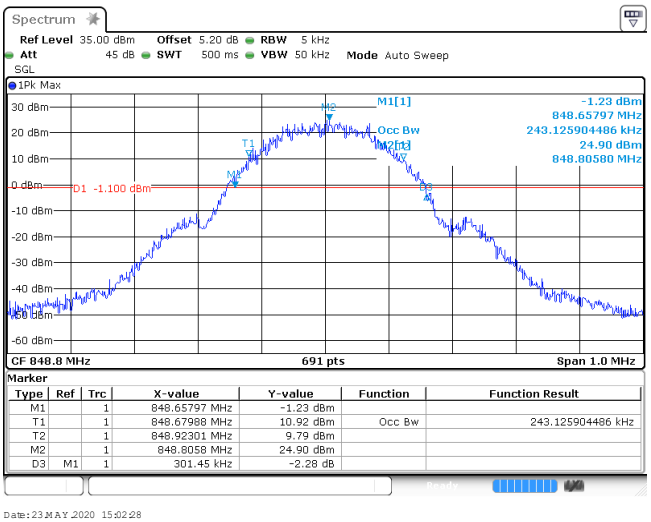

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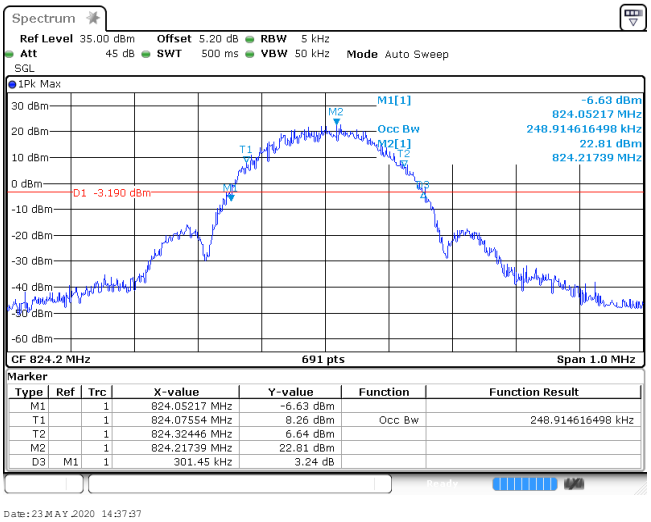

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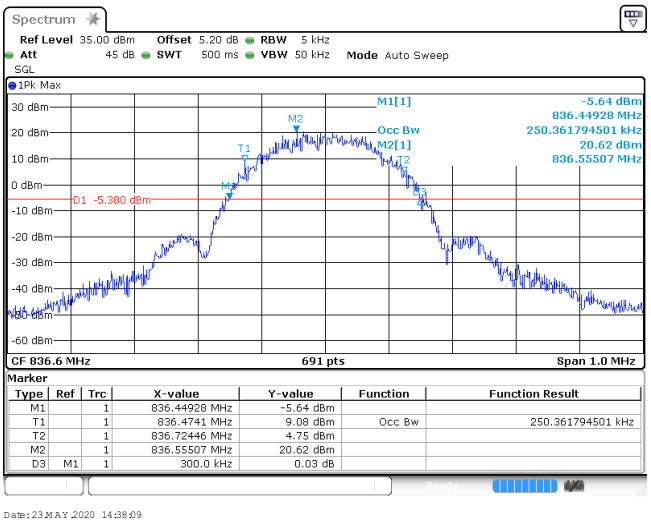

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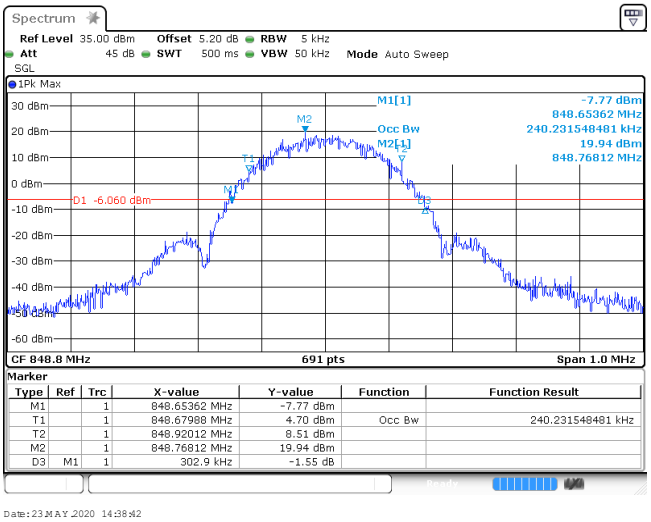

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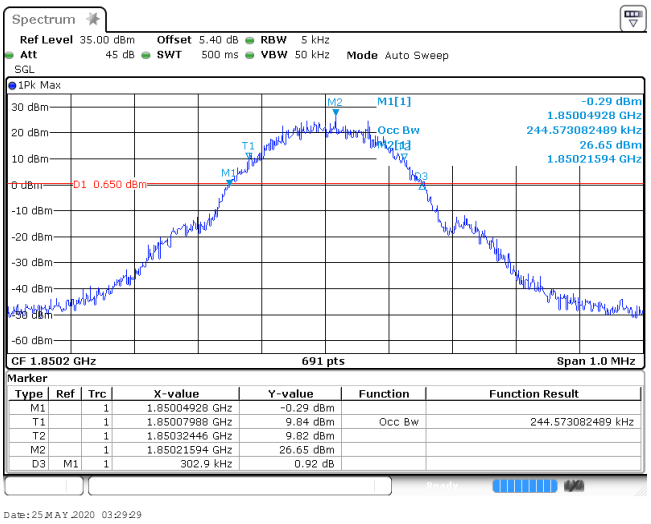

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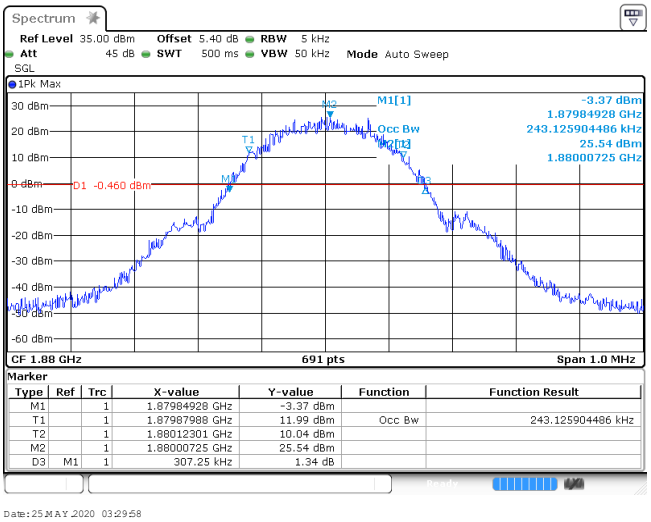

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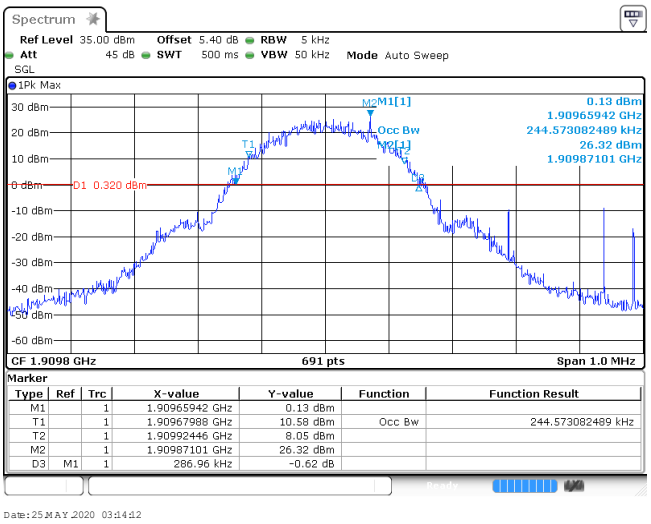

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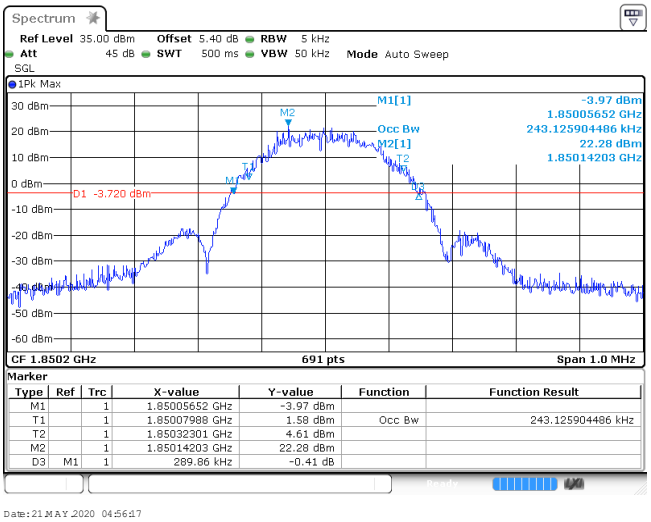
EGPRS1900_512



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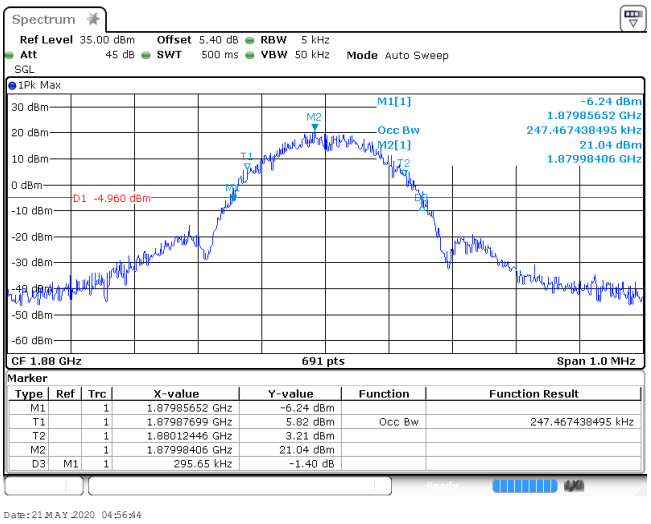

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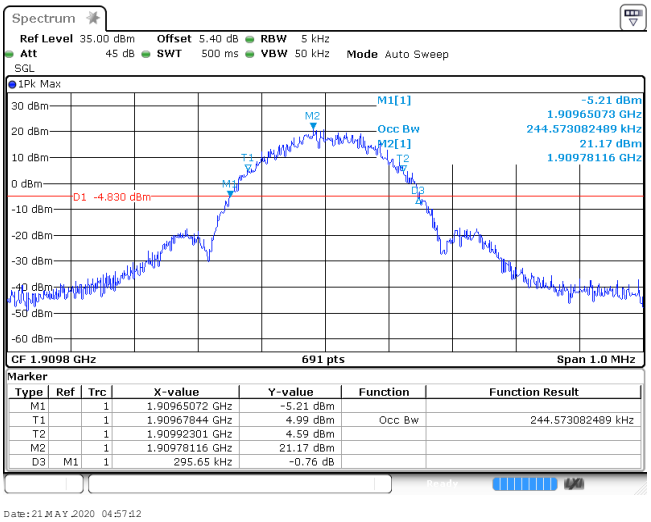
EGPRS1900_810



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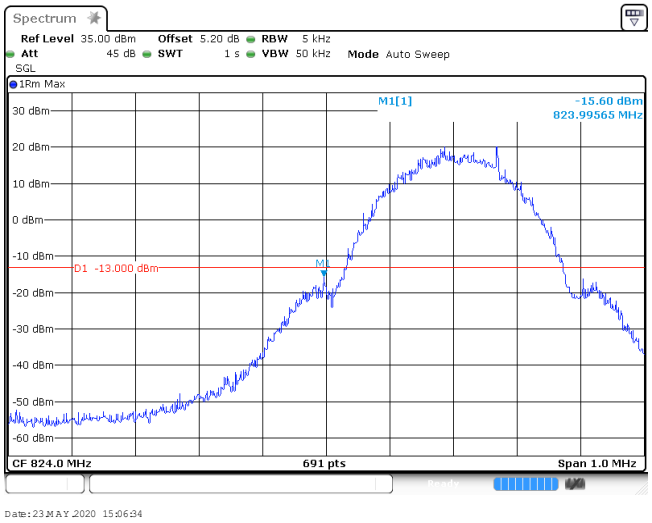
5. Band Edge Compliance

5.1. Test Plots

GSM850_128



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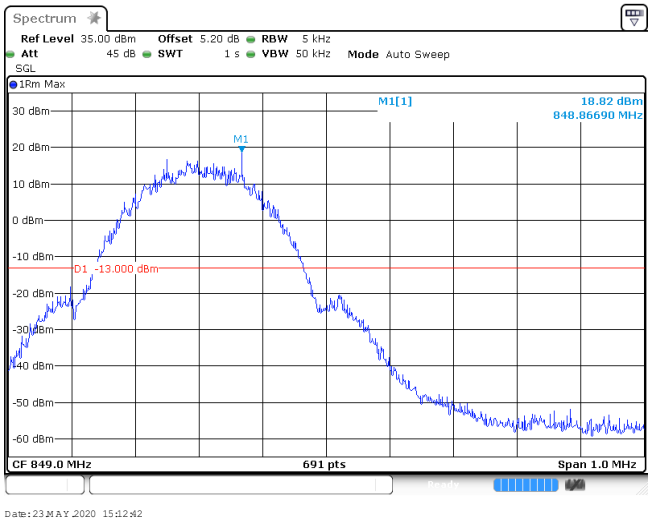

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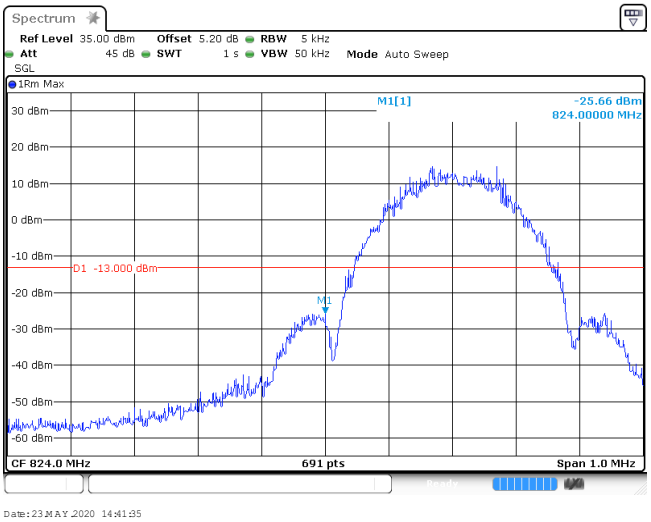
EGPRS850_128



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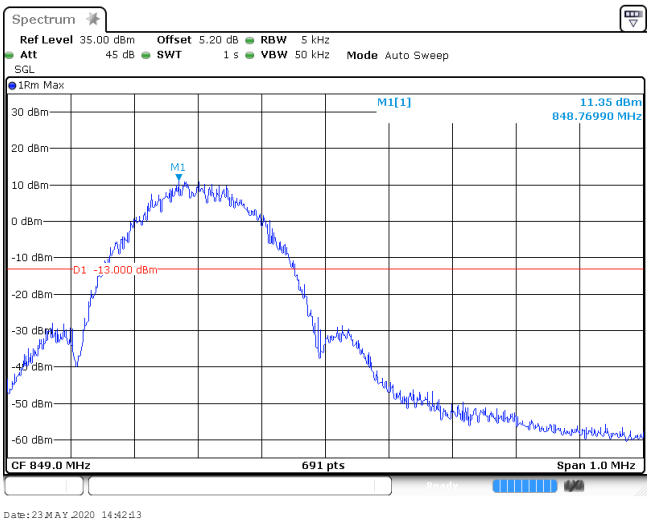

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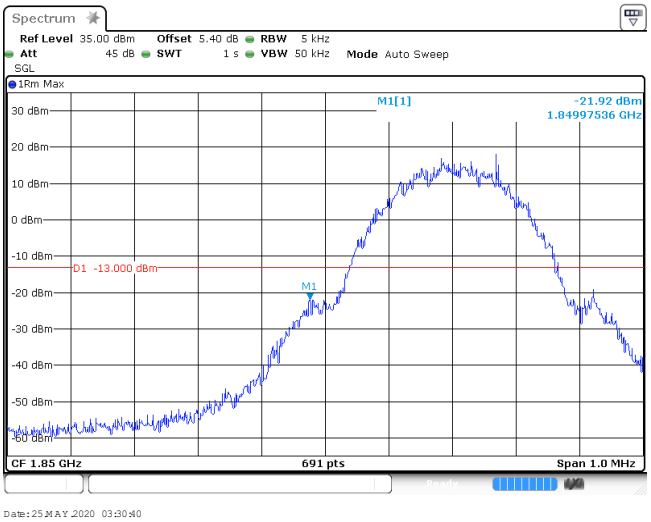
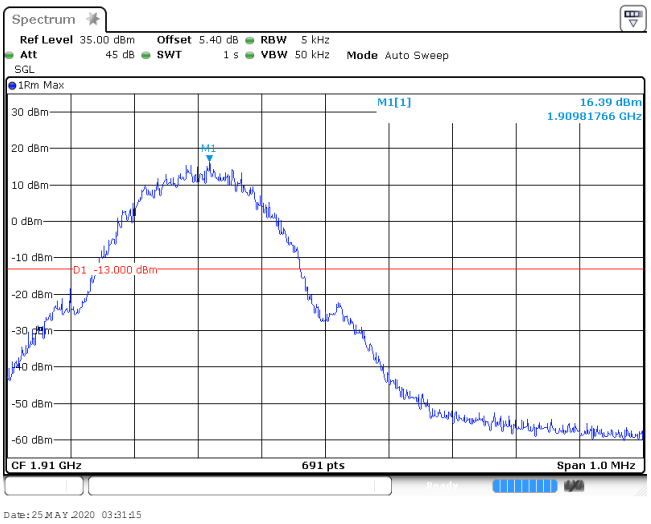
GSM1900_512



GSM1900_810



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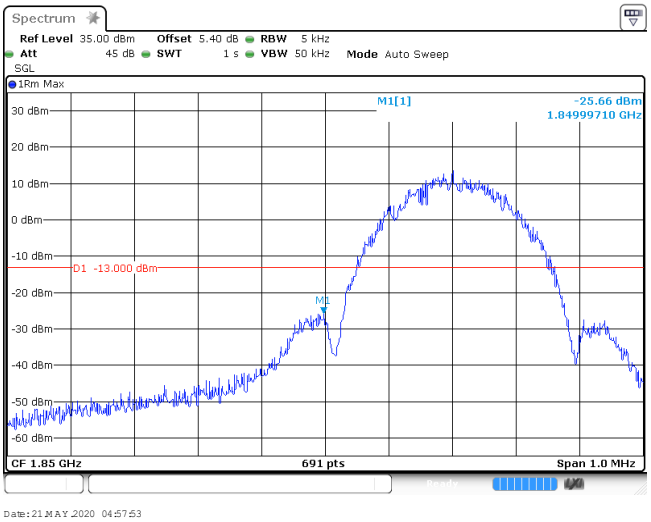

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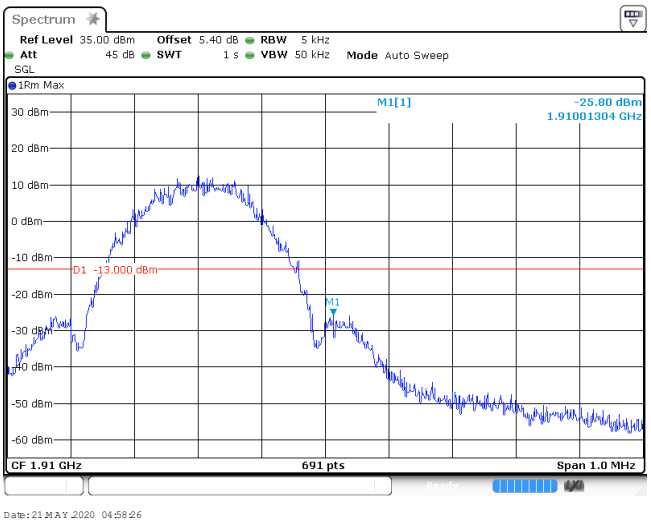

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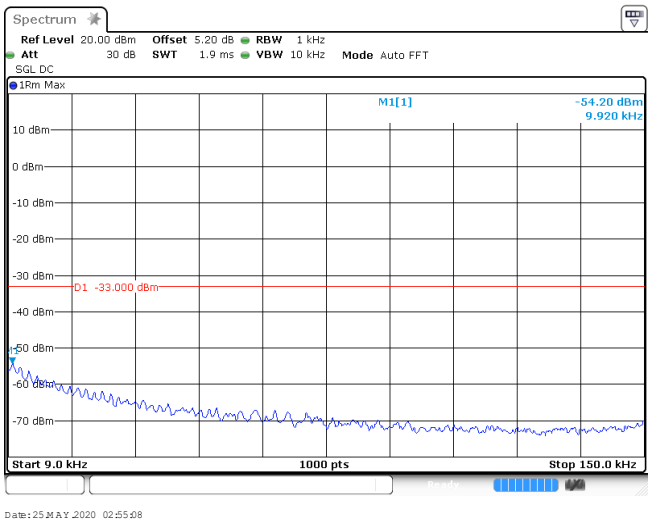
6. Spurious Emission at Antenna Terminal

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



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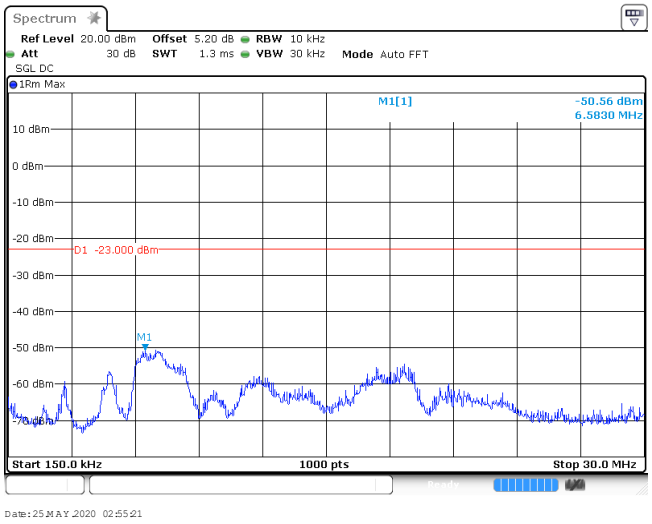

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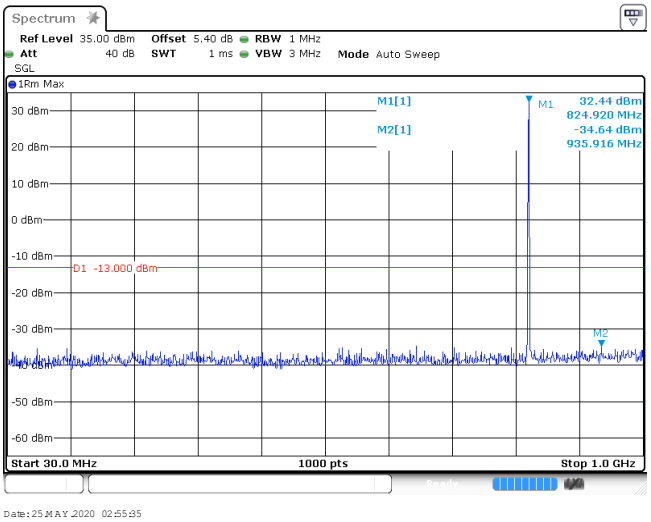
GSM850_128



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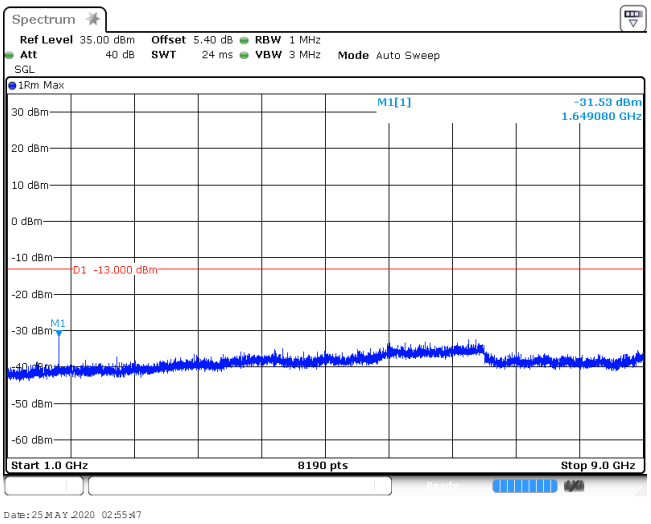

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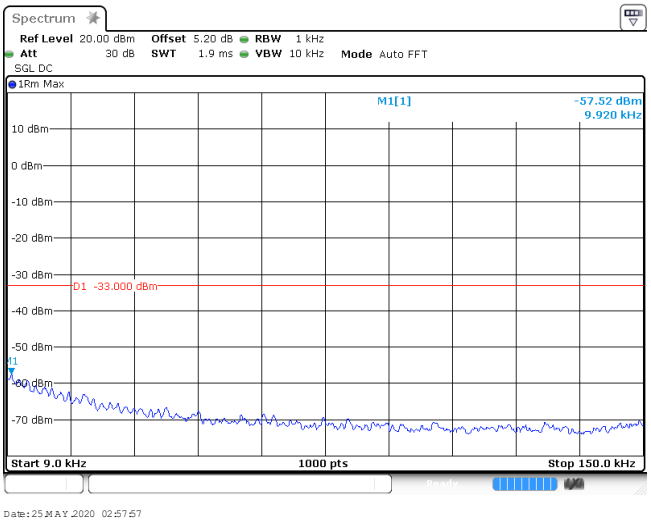
GSM850_190



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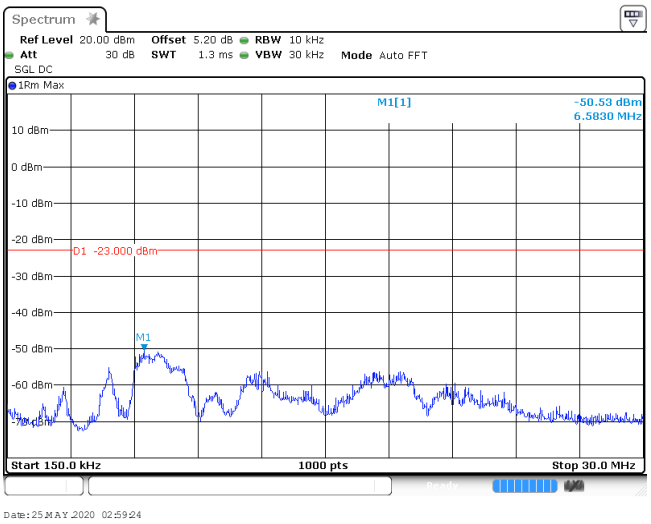

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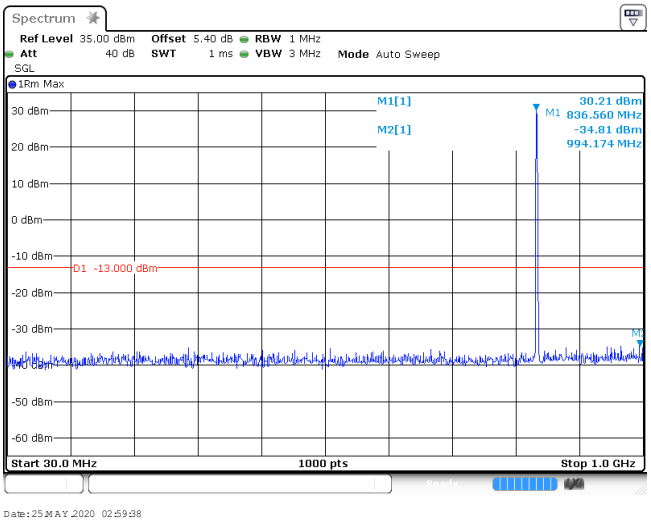

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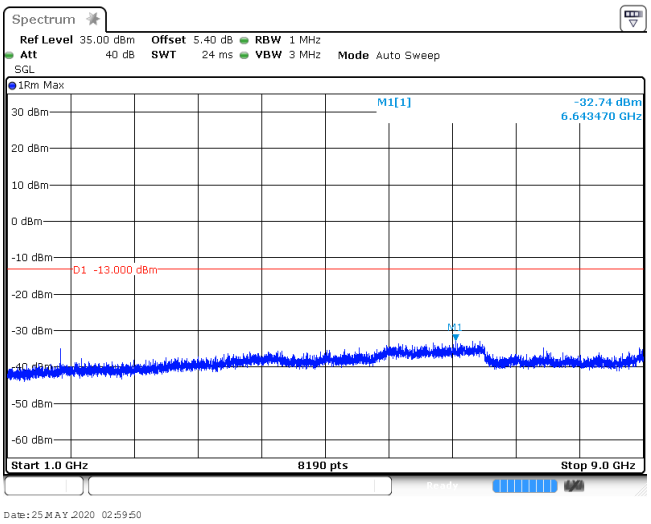

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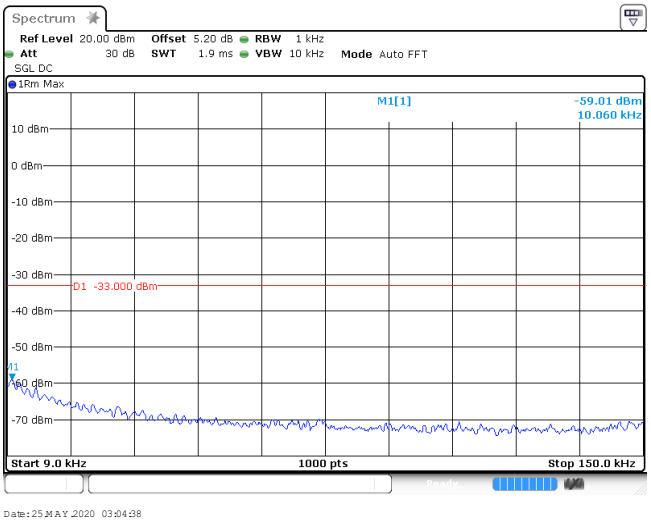

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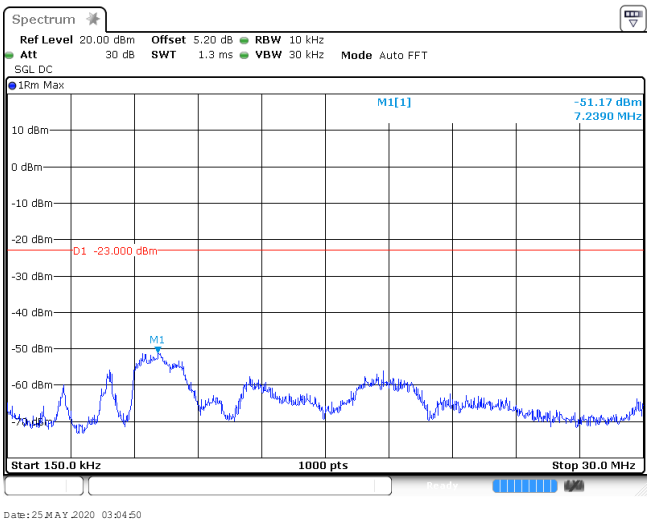

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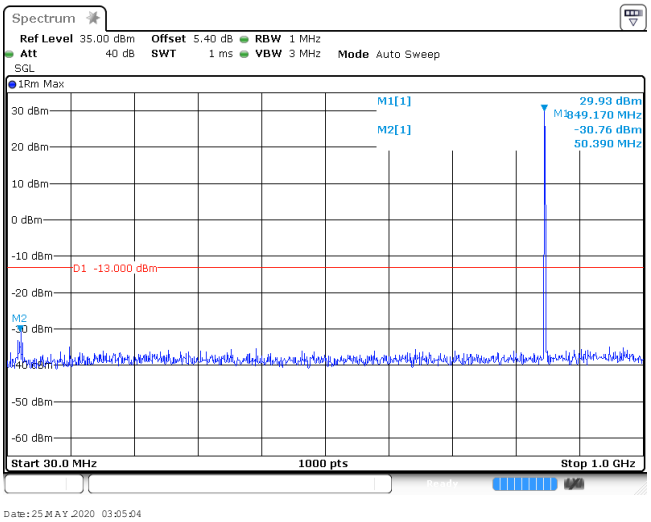

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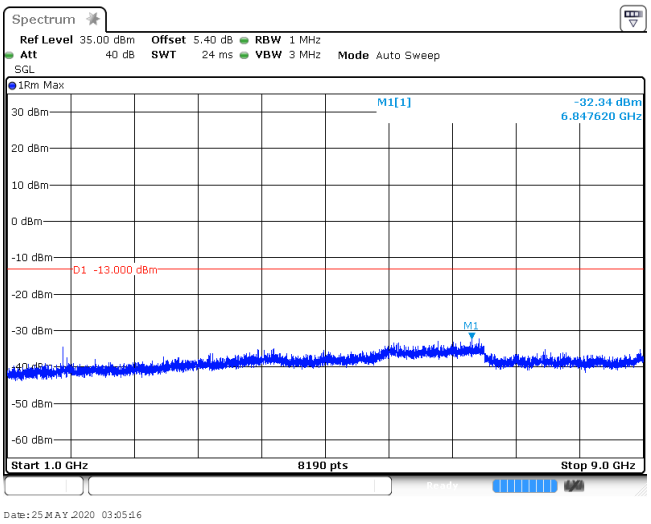

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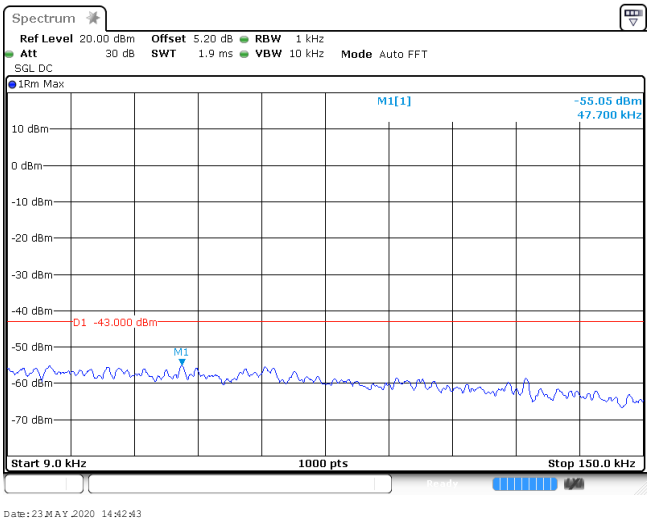

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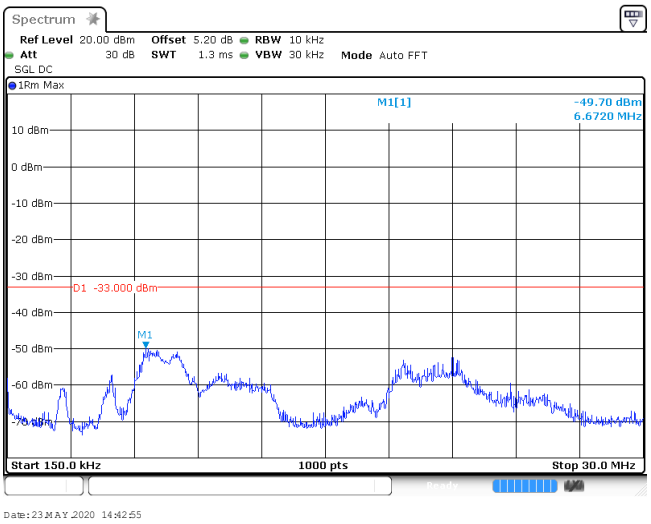

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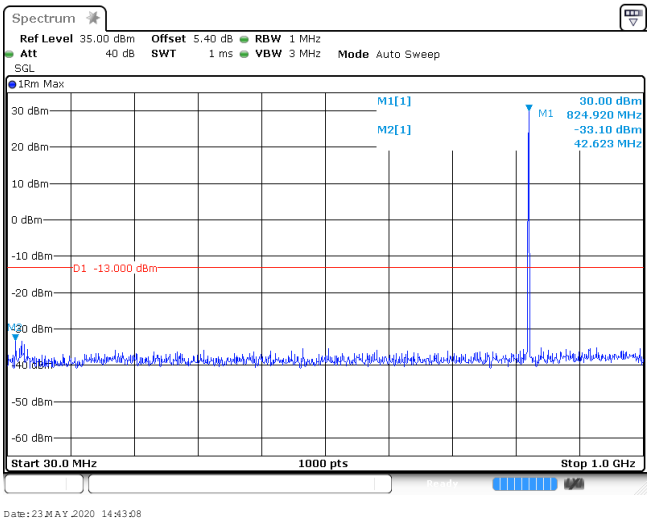

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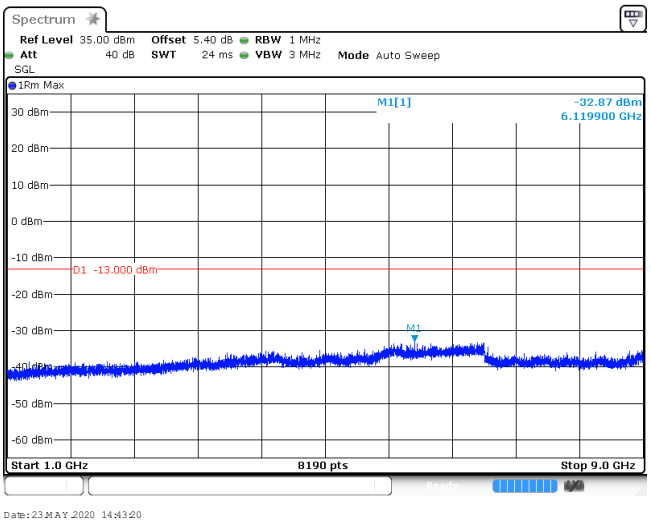

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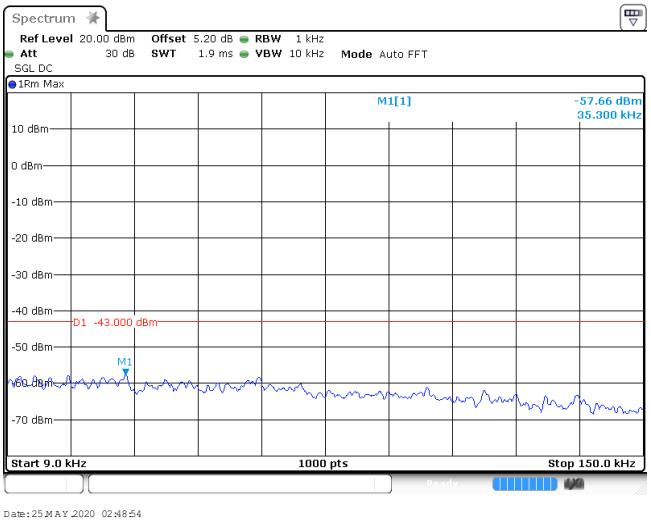

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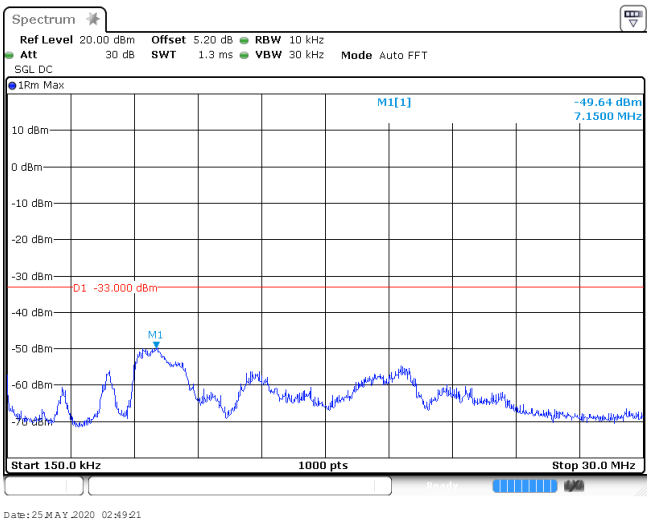

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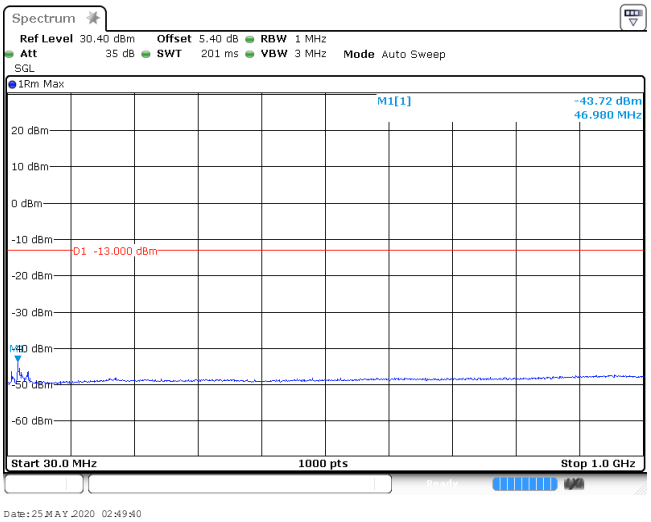

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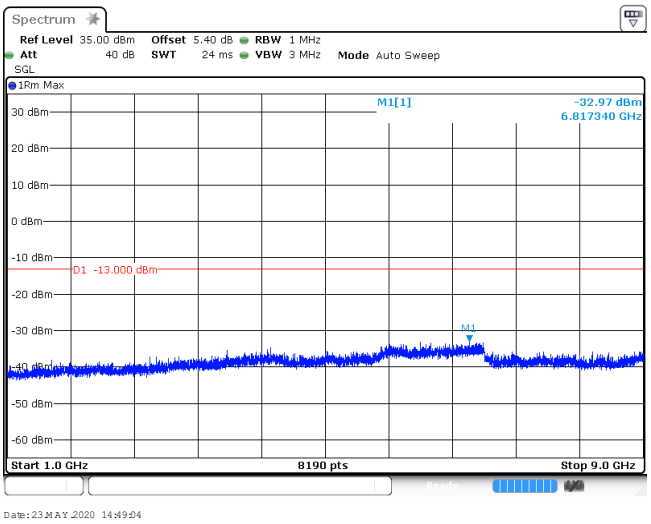

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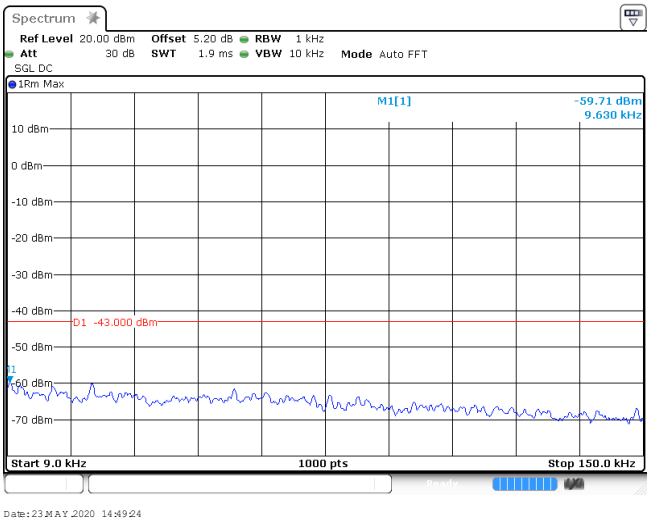

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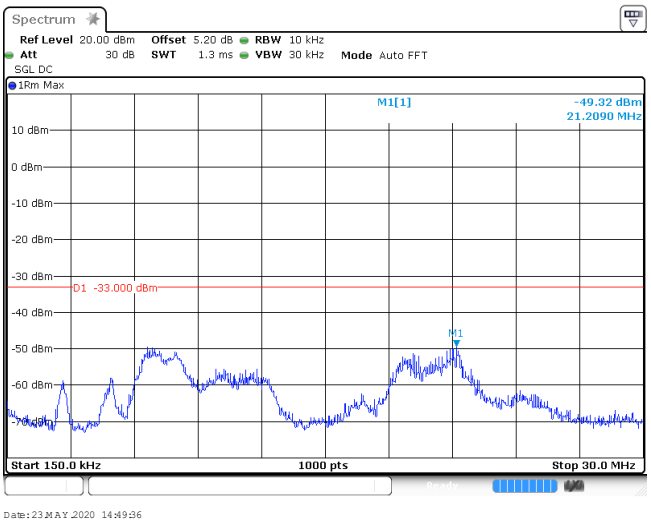

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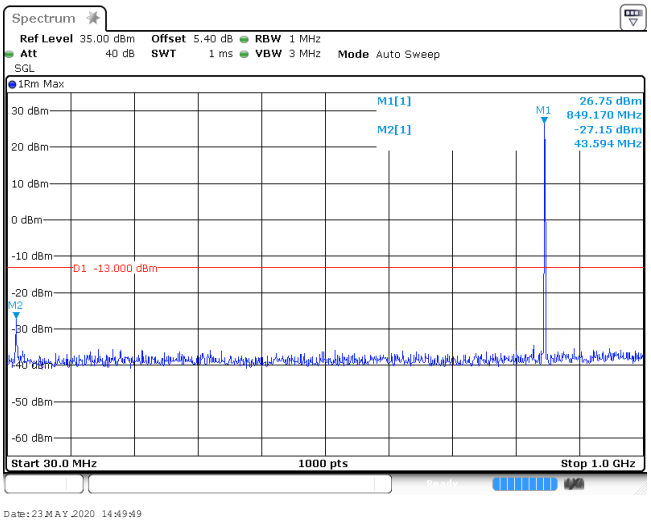

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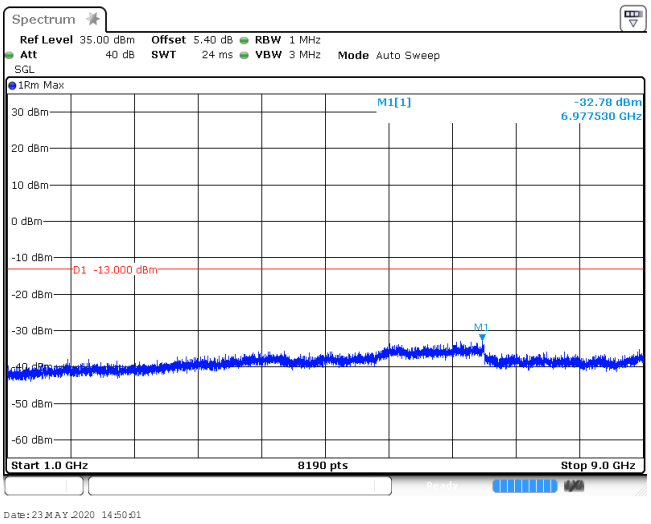

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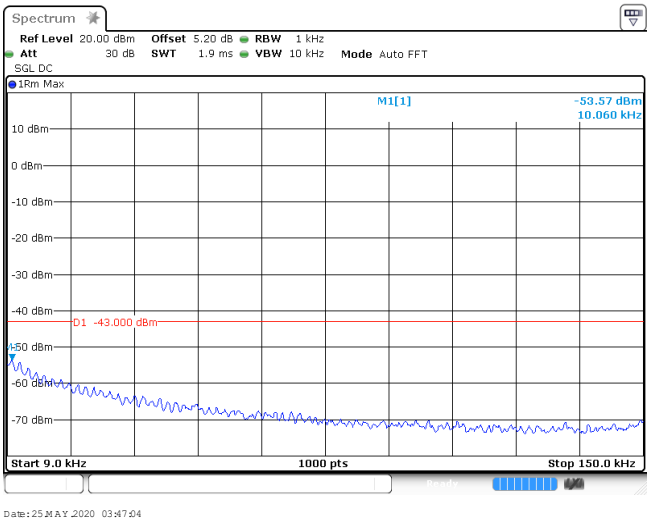

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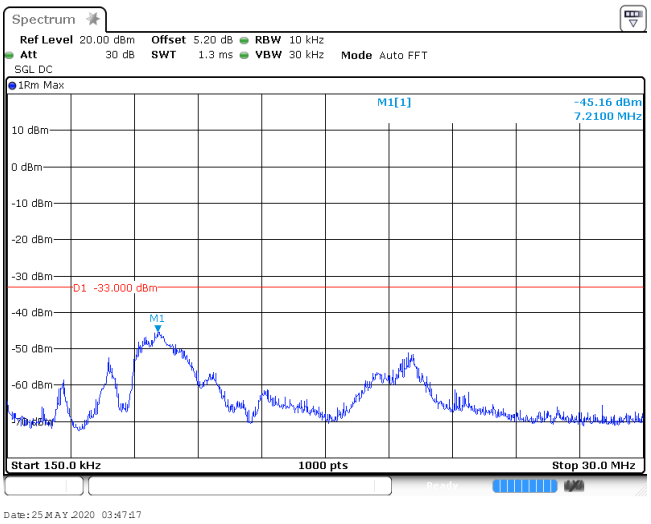

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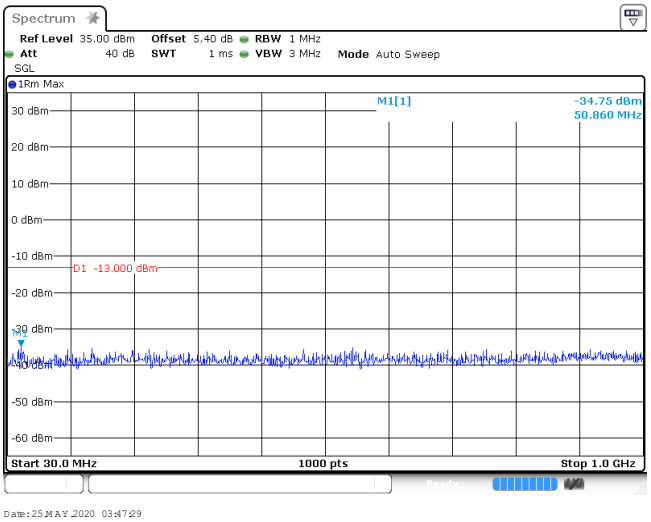

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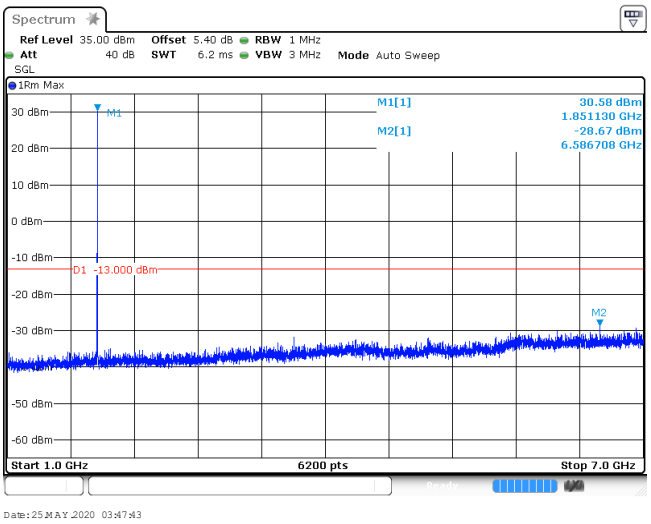

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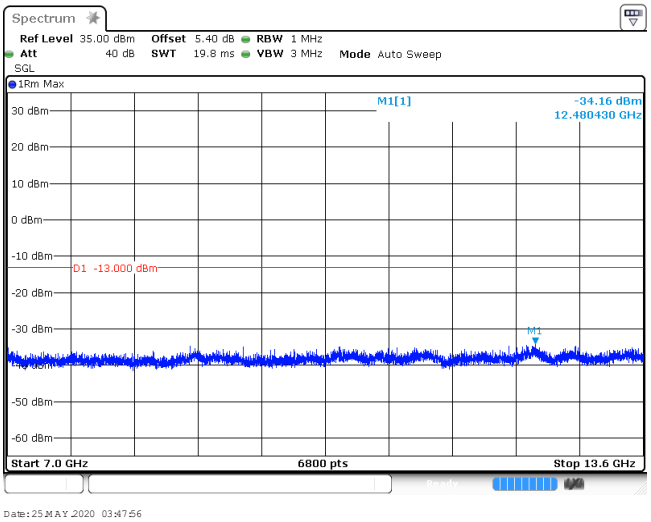

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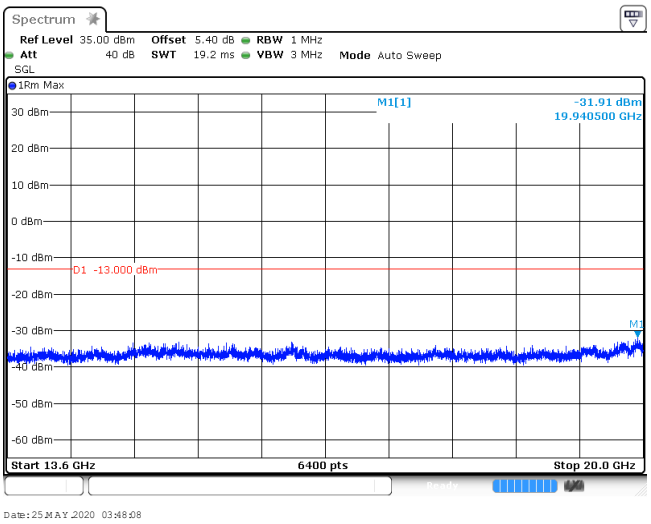

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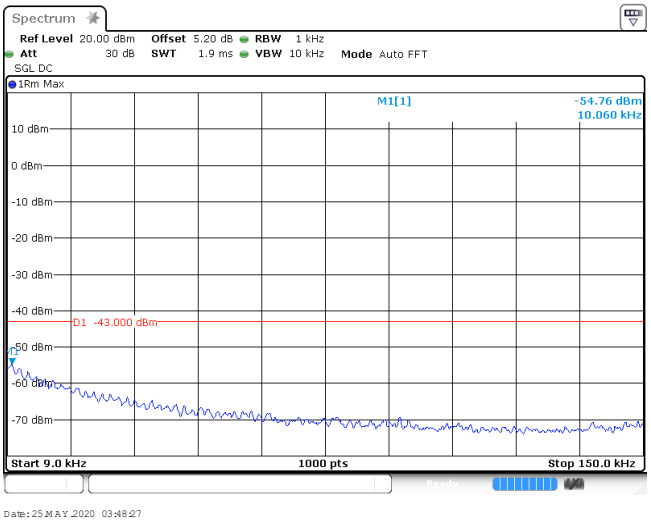

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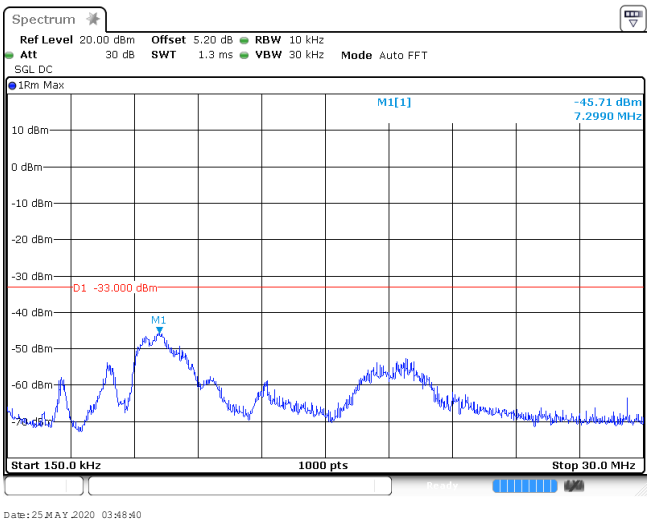

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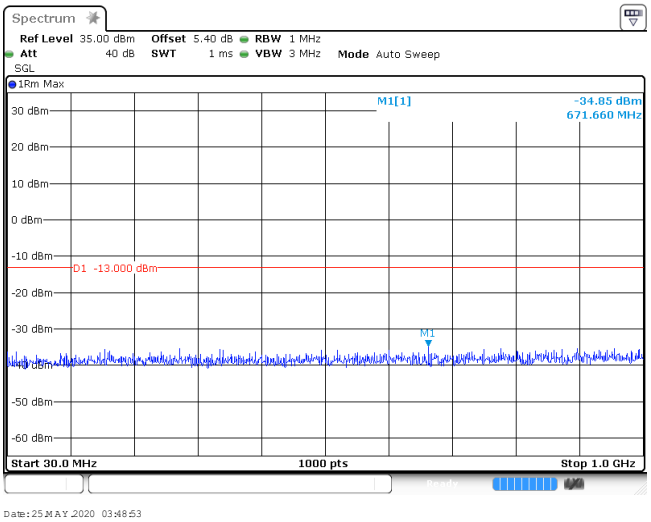

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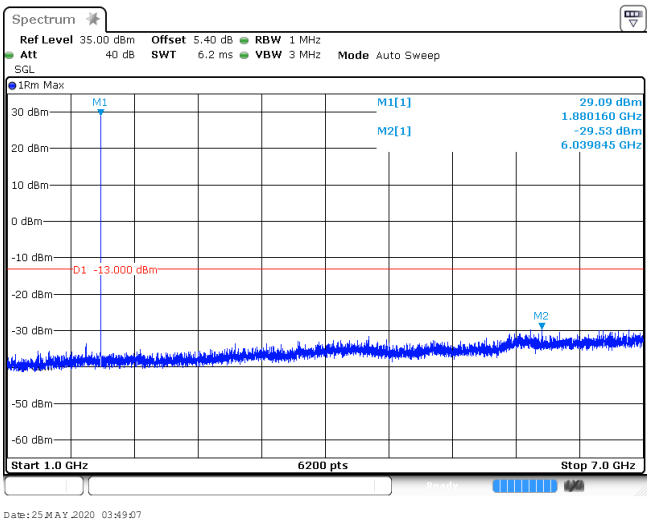

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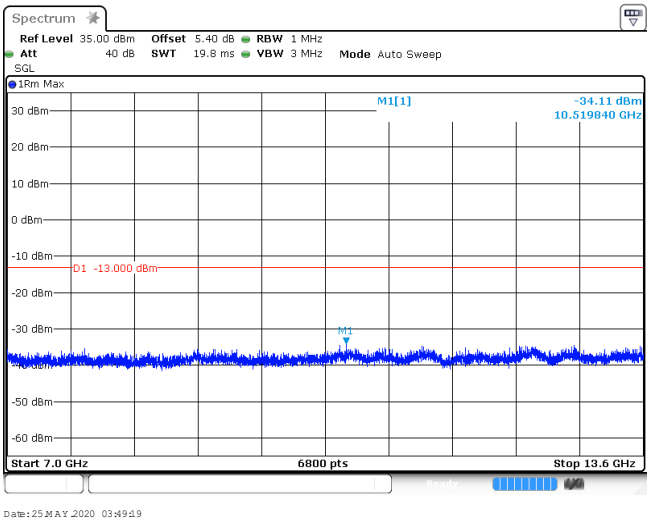

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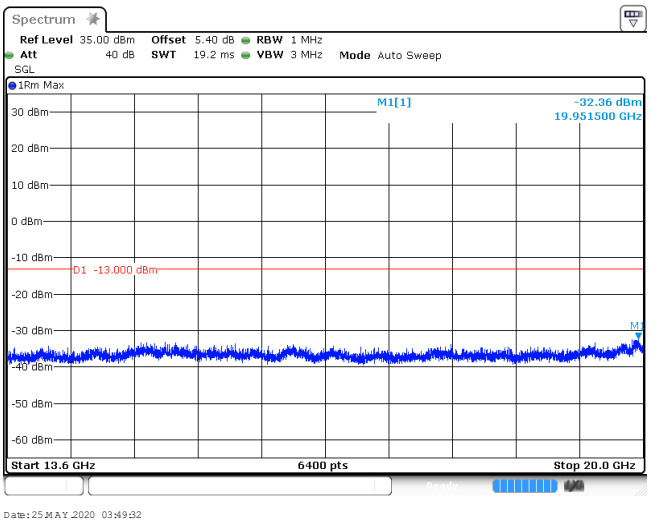

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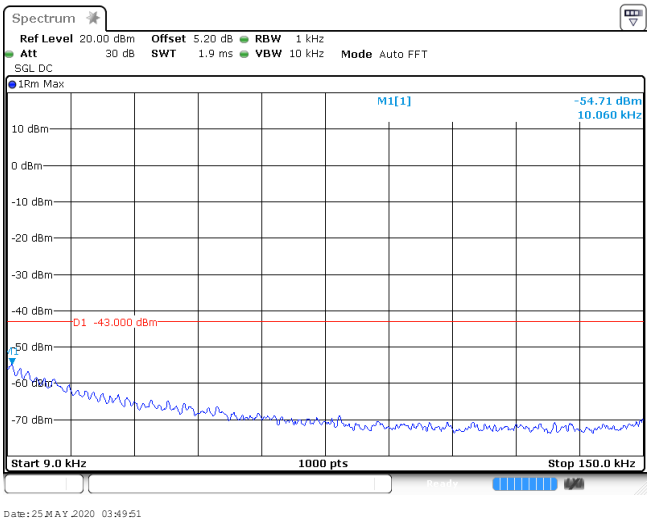

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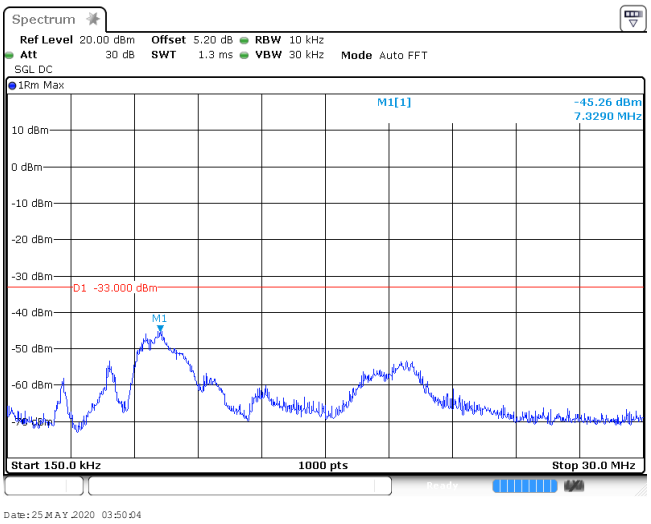

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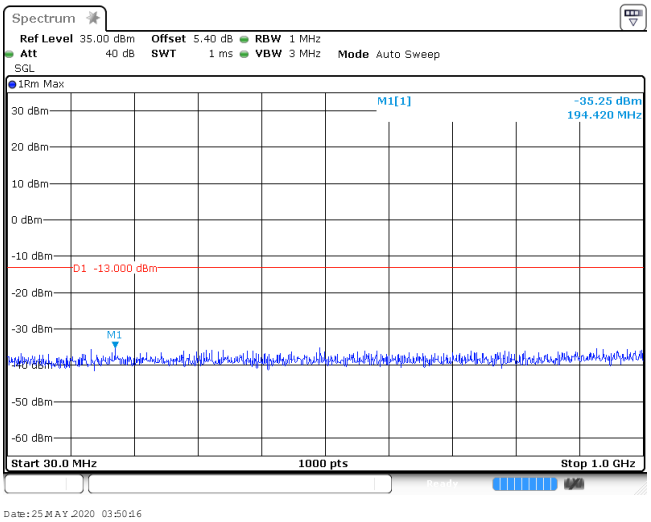

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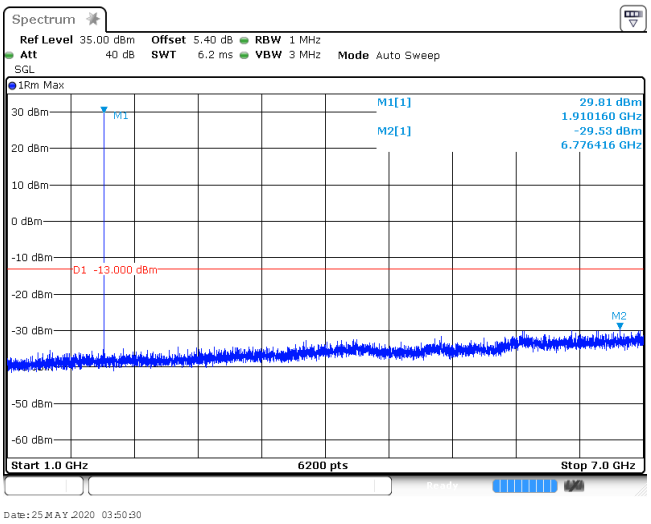

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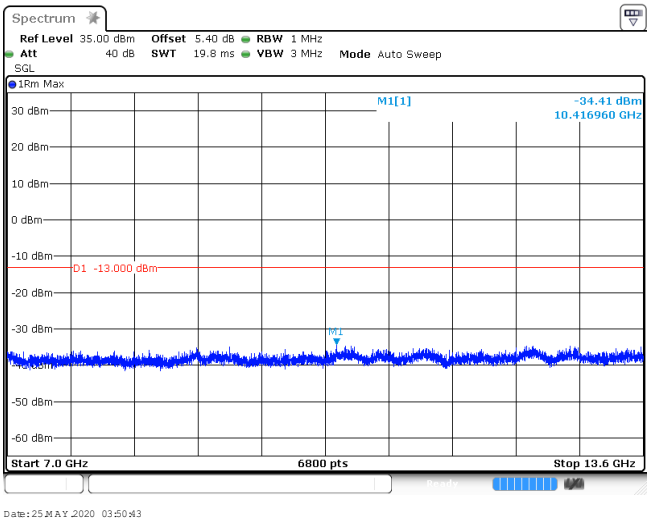

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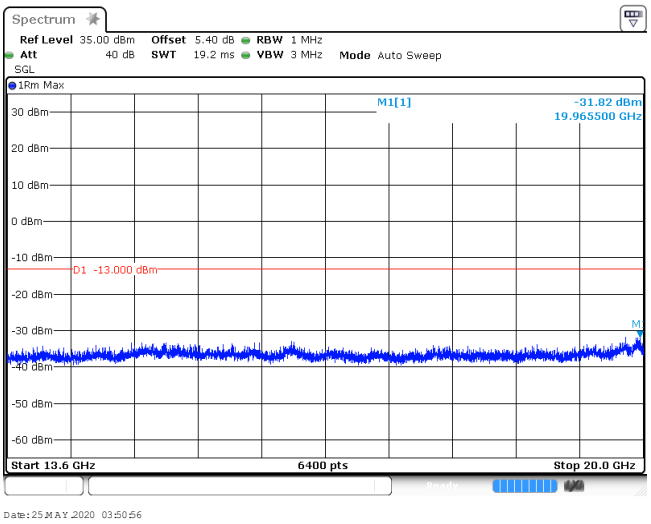

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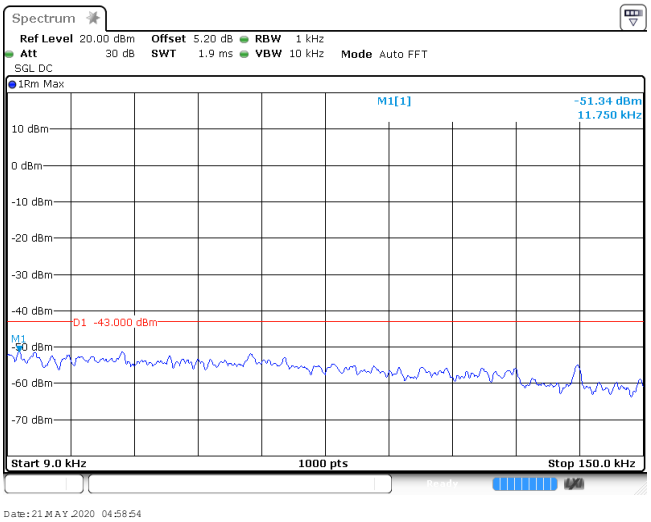

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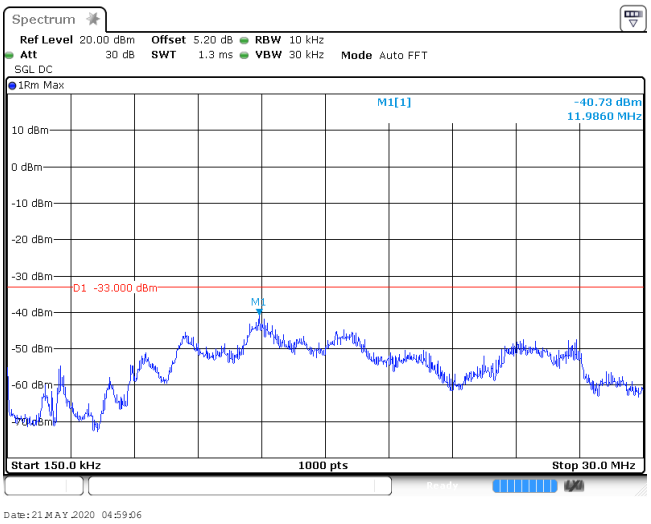

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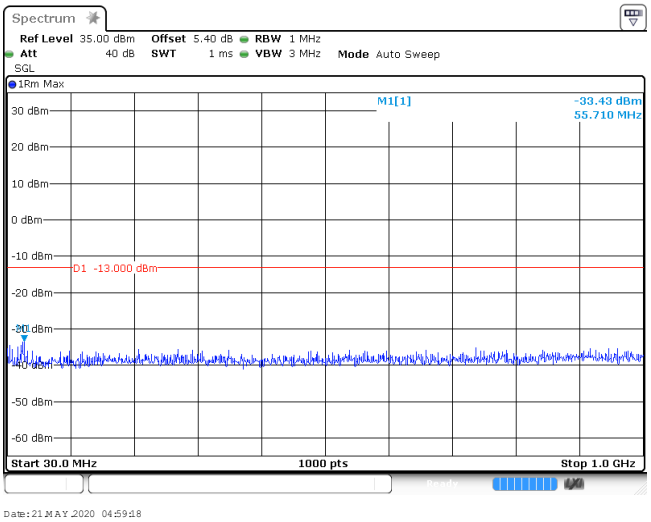

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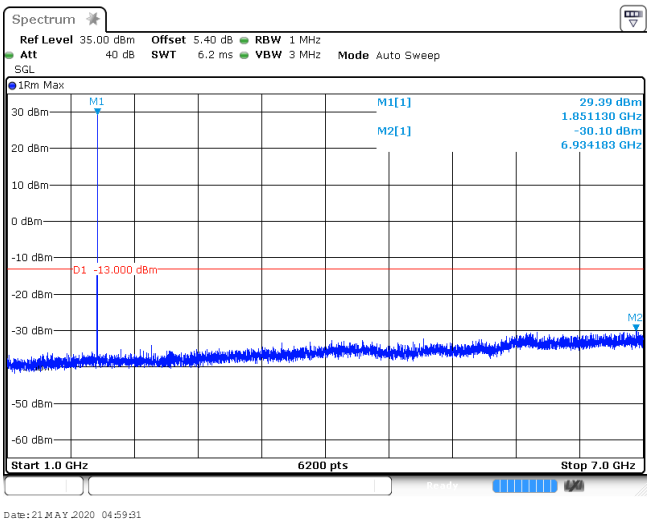

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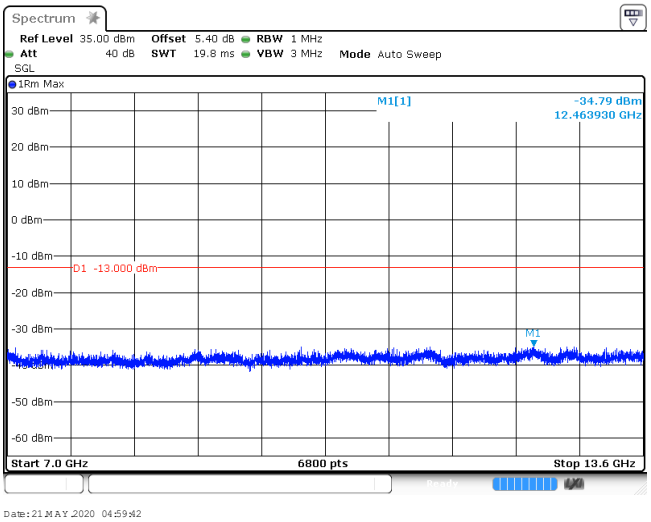

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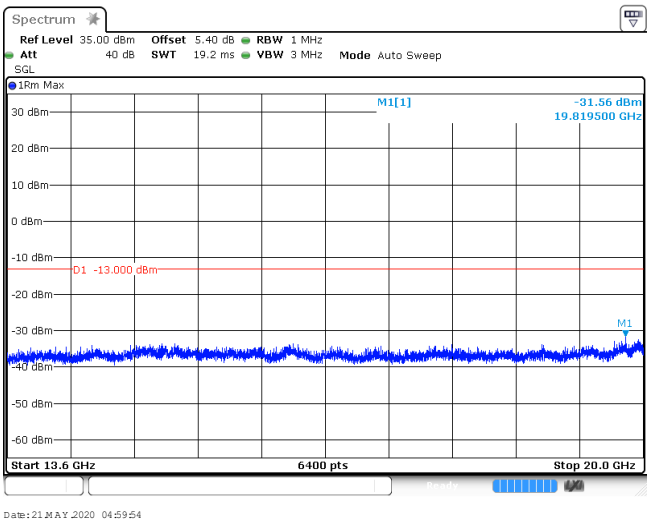

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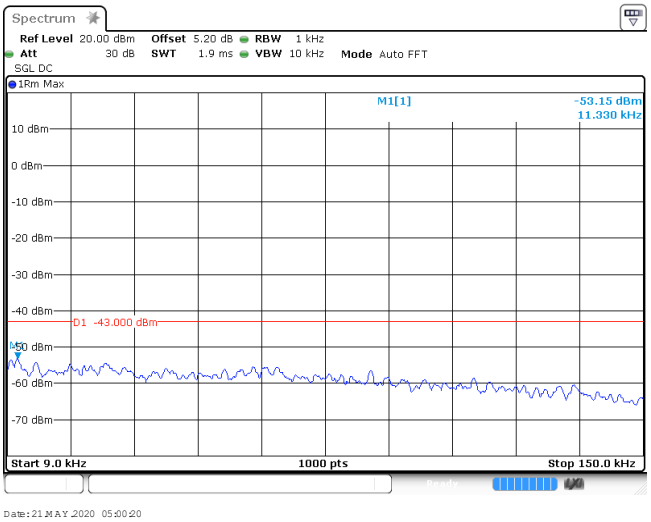

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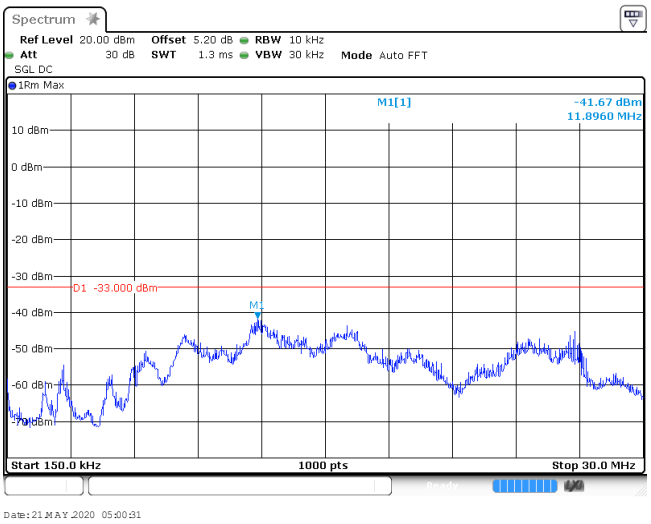

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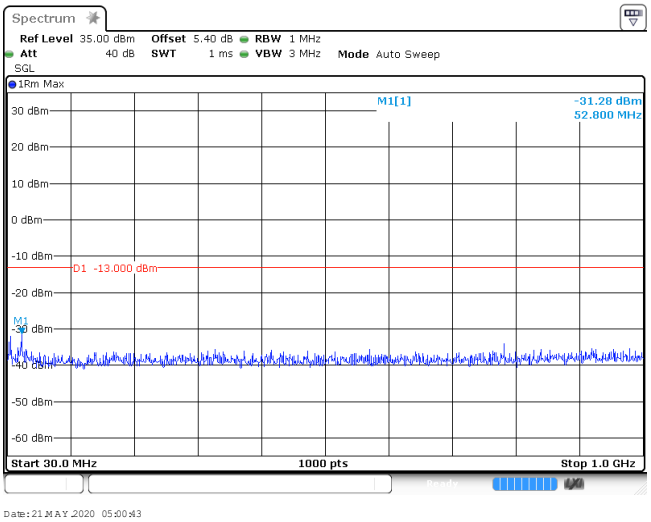

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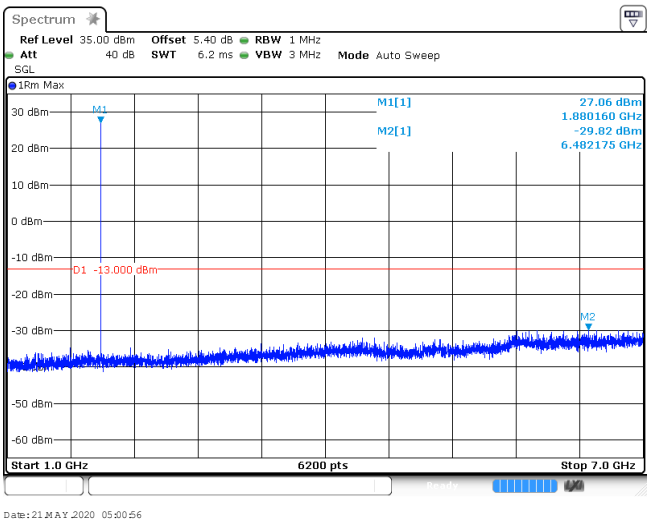

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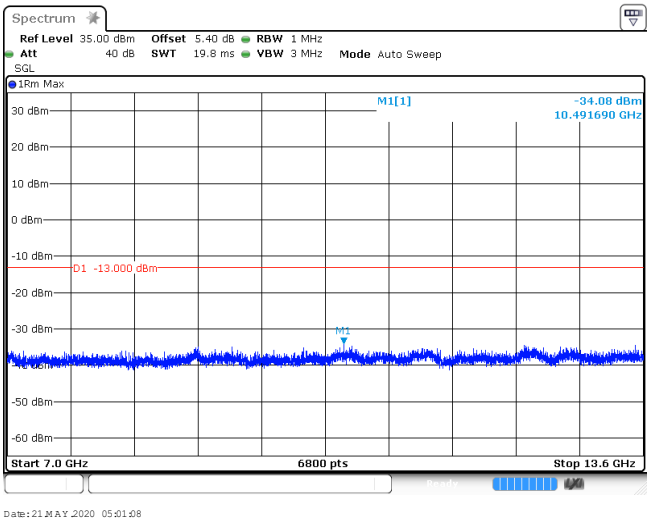

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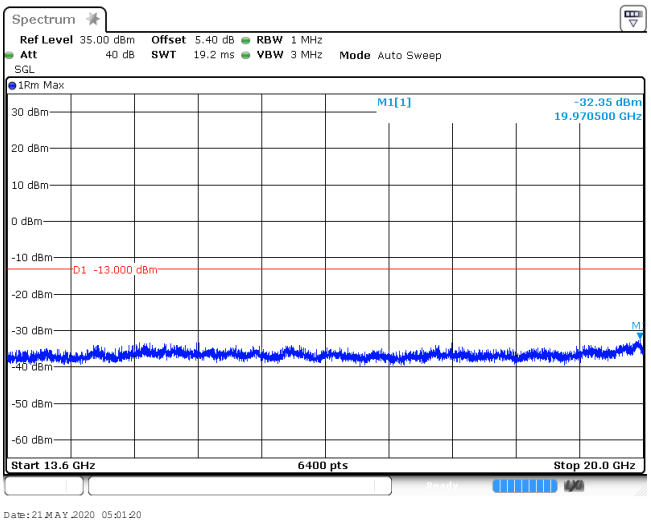

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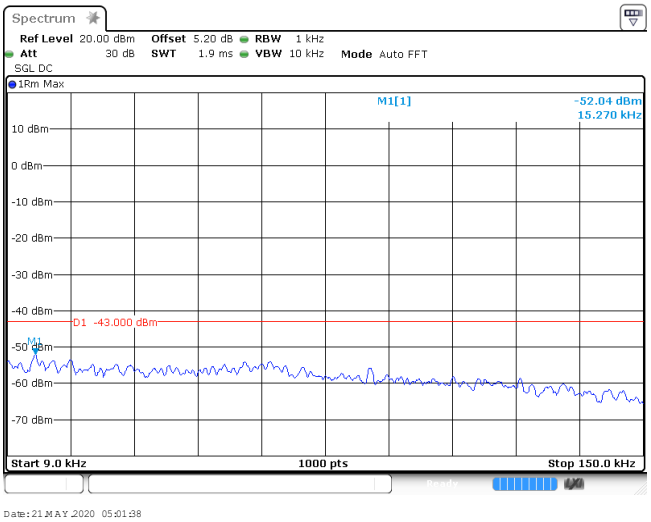

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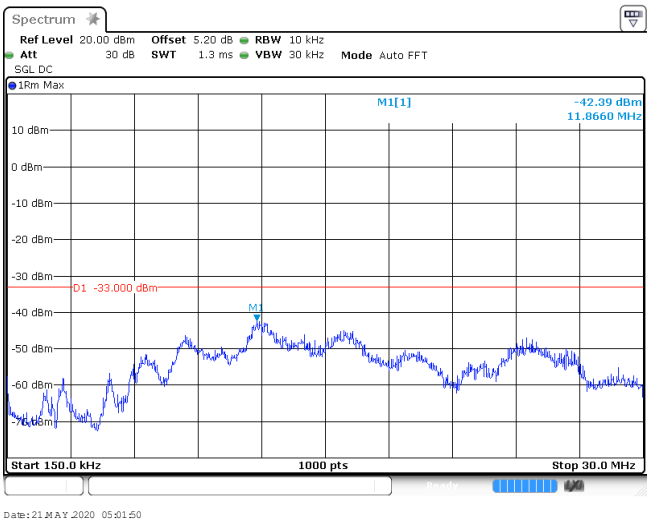

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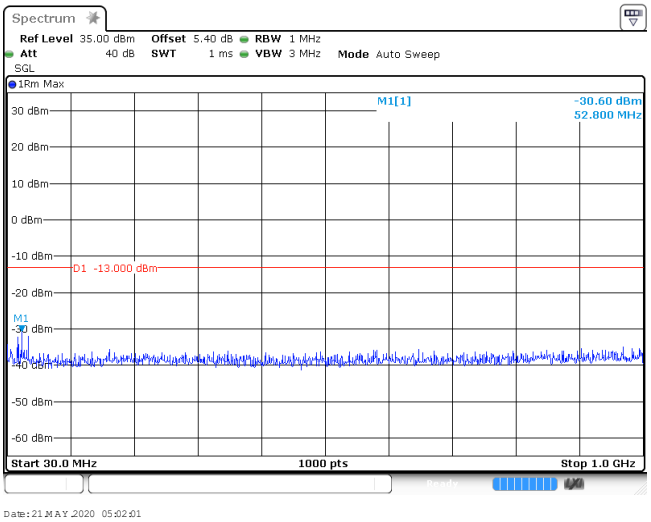

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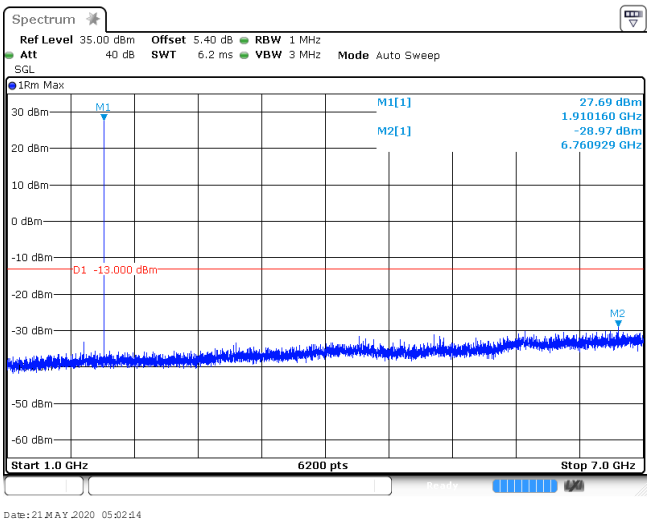

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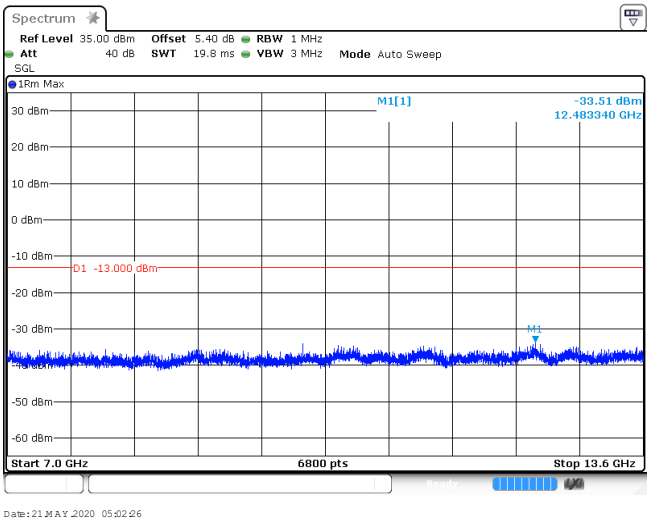

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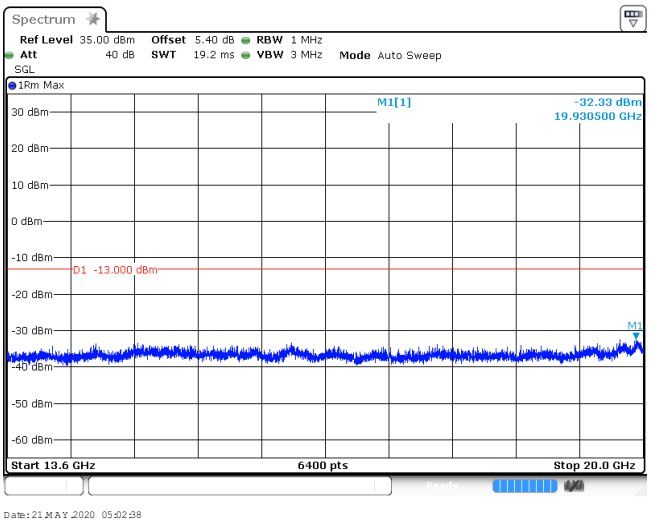

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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.4010	-71.27	-13.00	58.27	215	9	Vertical
113.5212	-64.14	-13.00	51.14	152	40	Vertical
1648.5297	-46.23	-13.00	33.23	171	162	Vertical
2472.6945	-50.33	-13.00	37.33	122	203	Vertical
3296.5099	-60.11	-13.00	47.11	196	262	Vertical
4121.0374	-60.32	-13.00	47.32	152	356	Vertical
45.8118	-64.01	-13.00	51.01	136	325	Horizontal
242.3921	-67.38	-13.00	54.38	152	167	Horizontal
1648.5297	-41.95	-13.00	28.95	284	205	Horizontal
2471.4943	-31.50	-13.00	18.50	196	275	Horizontal
3297.0099	-52.26	-13.00	39.26	222	167	Horizontal
4121.0374	-57.56	-13.00	44.56	173	198	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
56.6278	-71.56	-13.00	58.56	175	71	Vertical
111.6781	-63.66	-13.00	50.66	253	166	Vertical
366.8493	-67.90	-13.00	54.90	237	262	Vertical
1673.3347	-45.64	-13.00	32.64	296	131	Vertical
2509.9020	-47.20	-13.00	34.20	184	117	Vertical
3346.5116	-58.56	-13.00	45.56	122	262	Vertical
44.0657	-63.93	-13.00	50.93	111	325	Horizontal
95.8178	-74.21	-13.00	61.21	152	198	Horizontal
231.2366	-67.37	-13.00	54.37	139	72	Horizontal
1672.9346	-40.46	-13.00	27.46	174	158	Horizontal
2509.9020	-42.92	-13.00	29.92	145	220	Horizontal
3346.5116	-51.94	-13.00	38.94	285	230	Horizontal

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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
52.1656	-71.53	-13.00	58.53	176	8	Vertical
109.0590	-64.16	-13.00	51.16	163	72	Vertical
293.6107	-66.99	-13.00	53.99	252	103	Vertical
1697.7395	-46.05	-13.00	33.05	284	93	Vertical
2546.7093	-49.75	-13.00	36.75	222	242	Vertical
3395.0132	-55.50	-13.00	42.50	269	262	Vertical
41.7861	-63.70	-13.00	50.70	252	356	Horizontal
102.8991	-74.76	-13.00	61.76	111	135	Horizontal
232.1581	-67.36	-13.00	54.36	196	72	Horizontal
1697.3395	-44.37	-13.00	31.37	132	153	Horizontal
2546.7093	-43.66	-13.00	30.66	269	186	Horizontal
3395.0132	-52.06	-13.00	39.06	217	8	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
49.7890	-72.59	-13.00	59.59	263	8	Vertical
109.0590	-63.43	-13.00	50.43	211	41	Vertical
392.6041	-66.79	-13.00	53.79	285	230	Vertical
3700.5234	-50.24	-13.00	37.24	294	41	Vertical
5550.5850	-42.28	-13.00	29.28	121	356	Vertical
14456.3819	-47.86	-13.00	34.86	155	293	Vertical
41.3496	-64.08	-13.00	51.08	196	262	Horizontal
250.8800	-68.27	-13.00	55.27	211	135	Horizontal
552.0316	-64.71	-13.00	51.71	296	9	Horizontal
3700.0233	-51.25	-13.00	38.25	245	198	Horizontal
5550.5850	-48.66	-13.00	35.66	185	262	Horizontal
16367.4456	-43.75	-13.00	30.75	122	9	Horizontal

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7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.4010	-72.32	-13.00	59.32	132	9	Vertical
112.4541	-65.31	-13.00	52.31	196	103	Vertical
348.6124	-68.64	-13.00	55.64	172	198	Vertical
3760.0253	-48.72	-13.00	35.72	152	9	Vertical
5640.0880	-40.79	-13.00	27.79	222	230	Vertical
14478.8826	-47.91	-13.00	34.91	286	135	Vertical
44.7932	-64.26	-13.00	51.26	163	9	Horizontal
239.4820	-68.49	-13.00	55.49	121	9	Horizontal
662.3746	-63.36	-13.00	50.36	174	198	Horizontal
3760.0253	-50.03	-13.00	37.03	199	167	Horizontal
5640.0880	-45.31	-13.00	32.31	262	325	Horizontal
16398.9466	-43.95	-13.00	30.95	211	293	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
46.0543	-73.22	-13.00	60.22	163	230	Vertical
110.4655	-64.28	-13.00	51.28	252	104	Vertical
475.0583	-66.66	-13.00	53.66	175	230	Vertical
3819.5273	-46.98	-13.00	33.98	166	9	Vertical
5729.5910	-42.10	-13.00	29.10	132	9	Vertical
14476.3825	-48.08	-13.00	35.08	296	199	Vertical
43.6292	-63.63	-13.00	50.63	185	72	Horizontal
229.3450	-67.04	-13.00	54.04	166	9	Horizontal
549.0730	-64.97	-13.00	51.97	132	325	Horizontal
3819.5273	-48.61	-13.00	35.61	211	230	Horizontal
5729.5910	-44.12	-13.00	31.12	188	198	Horizontal
16389.9463	-44.22	-13.00	31.22	261	262	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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3)

8. Frequency Stability

8.1. Frequency Error Vs Voltage

BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	10.40	0.012618	±2.5	PASS
GSM850	128	VN	TN	3.94	0.004778	±2.5	PASS
GSM850	128	VH	TN	-14.42	-0.017500	±2.5	PASS
GSM850	190	VL	TN	-6.54	-0.007822	±2.5	PASS
GSM850	190	VN	TN	9.67	0.011562	±2.5	PASS
GSM850	190	VH	TN	12.96	0.015493	±2.5	PASS
GSM850	251	VL	TN	-9.73	-0.011462	±2.5	PASS
GSM850	251	VN	TN	0.35	0.000412	±2.5	PASS
GSM850	251	VH	TN	12.31	0.014497	±2.5	PASS
EGPRS850	128	VL	TN	9.68	0.011745	±2.5	PASS
EGPRS850	128	VN	TN	-3.52	-0.004268	±2.5	PASS
EGPRS850	128	VH	TN	2.48	0.003011	±2.5	PASS
EGPRS850	190	VL	TN	-3.28	-0.003923	±2.5	PASS
EGPRS850	190	VN	TN	-13.86	-0.016570	±2.5	PASS
EGPRS850	190	VH	TN	8.36	0.009996	±2.5	PASS
EGPRS850	251	VL	TN	-7.94	-0.009356	±2.5	PASS
EGPRS850	251	VN	TN	-14.25	-0.016786	±2.5	PASS
EGPRS850	251	VH	TN	-6.40	-0.007545	±2.5	PASS
GSM1900	512	VL	TN	4.45	0.002407	±2.5	PASS
GSM1900	512	VN	TN	13.62	0.007359	±2.5	PASS
GSM1900	512	VH	TN	-2.16	-0.001169	±2.5	PASS
GSM1900	661	VL	TN	0.00	0.000002	±2.5	PASS
GSM1900	661	VN	TN	-13.98	-0.007436	±2.5	PASS
GSM1900	661	VH	TN	-8.22	-0.004372	±2.5	PASS
GSM1900	810	VL	TN	-4.42	-0.002313	±2.5	PASS
GSM1900	810	VN	TN	-12.47	-0.006531	±2.5	PASS
GSM1900	810	VH	TN	-7.74	-0.004052	±2.5	PASS
EGPRS1900	512	VL	TN	-0.54	-0.000293	±2.5	PASS
EGPRS1900	512	VN	TN	8.40	0.004541	±2.5	PASS
EGPRS1900	512	VH	TN	-14.49	-0.007830	±2.5	PASS

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EGPRS1900	661	VL	TN	-6.01	-0.003199	±2.5	PASS
EGPRS1900	661	VN	TN	-13.84	-0.007359	±2.5	PASS
EGPRS1900	661	VH	TN	11.13	0.005920	±2.5	PASS
EGPRS1900	810	VL	TN	13.51	0.007072	±2.5	PASS
EGPRS1900	810	VN	TN	-9.11	-0.004771	±2.5	PASS
EGPRS1900	810	VH	TN	5.84	0.003056	±2.5	PASS

8.2. Frequency Error Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	11.20	0.013589	±2.5	PASS
GSM850	128	VN	-20	-3.85	-0.004668	±2.5	PASS
GSM850	128	VN	-10	8.74	0.010603	±2.5	PASS
GSM850	128	VN	0	7.81	0.009479	±2.5	PASS
GSM850	128	VN	10	8.41	0.010208	±2.5	PASS
GSM850	128	VN	20	-11.60	-0.014071	±2.5	PASS
GSM850	128	VN	30	-6.29	-0.007626	±2.5	PASS
GSM850	128	VN	40	-13.29	-0.016130	±2.5	PASS
GSM850	128	VN	50	6.49	0.007875	±2.5	PASS
GSM850	190	VN	-30	9.19	0.010989	±2.5	PASS
GSM850	190	VN	-20	-4.02	-0.004806	±2.5	PASS
GSM850	190	VN	-10	12.99	0.015530	±2.5	PASS
GSM850	190	VN	0	11.20	0.013390	±2.5	PASS
GSM850	190	VN	10	-13.83	-0.016530	±2.5	PASS
GSM850	190	VN	20	11.86	0.014171	±2.5	PASS
GSM850	190	VN	30	-3.56	-0.004259	±2.5	PASS
GSM850	190	VN	40	-3.43	-0.004097	±2.5	PASS
GSM850	190	VN	50	4.28	0.005121	±2.5	PASS
GSM850	251	VN	-30	8.17	0.009621	±2.5	PASS
GSM850	251	VN	-20	-6.77	-0.007977	±2.5	PASS
GSM850	251	VN	-10	0.78	0.000921	±2.5	PASS
GSM850	251	VN	0	1.79	0.002108	±2.5	PASS
GSM850	251	VN	10	10.83	0.012763	±2.5	PASS
GSM850	251	VN	20	-14.38	-0.016942	±2.5	PASS
GSM850	251	VN	30	12.66	0.014915	±2.5	PASS

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GSM850	251	VN	40	-9.74	-0.011469	±2.5	PASS
GSM850	251	VN	50	-11.30	-0.013308	±2.5	PASS
EGPRS850	128	VN	-30	-10.35	-0.012553	±2.5	PASS
EGPRS850	128	VN	-20	4.43	0.005380	±2.5	PASS
EGPRS850	128	VN	-10	-1.14	-0.001384	±2.5	PASS
EGPRS850	128	VN	0	-8.00	-0.009705	±2.5	PASS
EGPRS850	128	VN	10	-13.14	-0.015947	±2.5	PASS
EGPRS850	128	VN	20	-12.98	-0.015750	±2.5	PASS
EGPRS850	128	VN	30	9.19	0.011156	±2.5	PASS
EGPRS850	128	VN	40	1.08	0.001312	±2.5	PASS
EGPRS850	128	VN	50	1.84	0.002228	±2.5	PASS
EGPRS850	190	VN	-30	7.75	0.009265	±2.5	PASS
EGPRS850	190	VN	-20	-9.09	-0.010866	±2.5	PASS
EGPRS850	190	VN	-10	-9.57	-0.011440	±2.5	PASS
EGPRS850	190	VN	0	-14.88	-0.017792	±2.5	PASS
EGPRS850	190	VN	10	13.82	0.016520	±2.5	PASS
EGPRS850	190	VN	20	-14.31	-0.017101	±2.5	PASS
EGPRS850	190	VN	30	0.98	0.001171	±2.5	PASS
EGPRS850	190	VN	40	-12.75	-0.015238	±2.5	PASS
EGPRS850	190	VN	50	7.77	0.009286	±2.5	PASS
EGPRS850	251	VN	-30	-8.46	-0.009971	±2.5	PASS
EGPRS850	251	VN	-20	9.91	0.011678	±2.5	PASS
EGPRS850	251	VN	-10	10.17	0.011987	±2.5	PASS
EGPRS850	251	VN	0	-14.33	-0.016880	±2.5	PASS
EGPRS850	251	VN	10	-0.70	-0.000824	±2.5	PASS
EGPRS850	251	VN	20	-6.84	-0.008063	±2.5	PASS
EGPRS850	251	VN	30	-9.44	-0.011124	±2.5	PASS
EGPRS850	251	VN	40	-14.95	-0.017613	±2.5	PASS
EGPRS850	251	VN	50	5.54	0.006524	±2.5	PASS
GSM1900	512	VN	-30	6.33	0.003424	±2.5	PASS
GSM1900	512	VN	-20	-9.81	-0.005301	±2.5	PASS
GSM1900	512	VN	-10	10.83	0.005854	±2.5	PASS
GSM1900	512	VN	0	-10.76	-0.005814	±2.5	PASS
GSM1900	512	VN	10	2.60	0.001404	±2.5	PASS
GSM1900	512	VN	20	0.90	0.000485	±2.5	PASS
GSM1900	512	VN	30	4.34	0.002343	±2.5	PASS
GSM1900	512	VN	40	8.54	0.004616	±2.5	PASS

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GSM1900	512	VN	50	-0.58	-0.000311	±2.5	PASS
GSM1900	661	VN	-30	2.81	0.001494	±2.5	PASS
GSM1900	661	VN	-20	-10.71	-0.005697	±2.5	PASS
GSM1900	661	VN	-10	-10.24	-0.005446	±2.5	PASS
GSM1900	661	VN	0	4.09	0.002177	±2.5	PASS
GSM1900	661	VN	10	-13.27	-0.007060	±2.5	PASS
GSM1900	661	VN	20	-5.24	-0.002790	±2.5	PASS
GSM1900	661	VN	30	-8.32	-0.004425	±2.5	PASS
GSM1900	661	VN	40	6.98	0.003715	±2.5	PASS
GSM1900	661	VN	50	-8.89	-0.004728	±2.5	PASS
GSM1900	810	VN	-30	14.59	0.007641	±2.5	PASS
GSM1900	810	VN	-20	6.75	0.003533	±2.5	PASS
GSM1900	810	VN	-10	8.12	0.004253	±2.5	PASS
GSM1900	810	VN	0	-2.40	-0.001256	±2.5	PASS
GSM1900	810	VN	10	3.19	0.001670	±2.5	PASS
GSM1900	810	VN	20	-0.01	-0.000004	±2.5	PASS
GSM1900	810	VN	30	-14.91	-0.007808	±2.5	PASS
GSM1900	810	VN	40	-1.57	-0.000820	±2.5	PASS
GSM1900	810	VN	50	-3.24	-0.001695	±2.5	PASS
EGPRS1900	512	VN	-30	5.59	0.003019	±2.5	PASS
EGPRS1900	512	VN	-20	-9.16	-0.004950	±2.5	PASS
EGPRS1900	512	VN	-10	-12.28	-0.006640	±2.5	PASS
EGPRS1900	512	VN	0	-0.99	-0.000535	±2.5	PASS
EGPRS1900	512	VN	10	12.27	0.006633	±2.5	PASS
EGPRS1900	512	VN	20	5.25	0.002837	±2.5	PASS
EGPRS1900	512	VN	30	10.09	0.005452	±2.5	PASS
EGPRS1900	512	VN	40	-0.65	-0.000353	±2.5	PASS
EGPRS1900	512	VN	50	10.21	0.005518	±2.5	PASS
EGPRS1900	661	VN	-30	-0.49	-0.000260	±2.5	PASS
EGPRS1900	661	VN	-20	-1.48	-0.000788	±2.5	PASS
EGPRS1900	661	VN	-10	10.54	0.005604	±2.5	PASS
EGPRS1900	661	VN	0	0.01	0.000006	±2.5	PASS
EGPRS1900	661	VN	10	-1.60	-0.000849	±2.5	PASS
EGPRS1900	661	VN	20	8.71	0.004635	±2.5	PASS
EGPRS1900	661	VN	30	14.27	0.007589	±2.5	PASS
EGPRS1900	661	VN	40	-7.17	-0.003812	±2.5	PASS
EGPRS1900	661	VN	50	-4.27	-0.002271	±2.5	PASS

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EGPRS1900	810	VN	-30	7.14	0.003738	±2.5	PASS
EGPRS1900	810	VN	-20	-8.51	-0.004455	±2.5	PASS
EGPRS1900	810	VN	-10	-0.27	-0.000143	±2.5	PASS
EGPRS1900	810	VN	0	-6.63	-0.003474	±2.5	PASS
EGPRS1900	810	VN	10	2.11	0.001106	±2.5	PASS
EGPRS1900	810	VN	20	-3.65	-0.001909	±2.5	PASS
EGPRS1900	810	VN	30	-1.45	-0.000759	±2.5	PASS
EGPRS1900	810	VN	40	-7.25	-0.003798	±2.5	PASS
EGPRS1900	810	VN	50	-1.89	-0.000992	±2.5	PASS

The End

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