

Report No.: SEWM2212000308RG01

Rev.: 02

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# Appendix B.1

## GSM 850 & 1900



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.42	28.97	38.45	PASS
GSM850	190	32.41	28.96	38.45	PASS
GSM850	251	32.11	28.66	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	26.90	28.70	33.00	PASS
GSM1900	661	27.01	28.81	33.00	PASS
GSM1900	810	27.01	28.81	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26	22.55	38.45	PASS
EGPRS850	128	2	24.45	21	38.45	PASS
EGPRS850	128	3	23.36	19.91	38.45	PASS
EGPRS850	128	4	22.35	18.9	38.45	PASS
EGPRS850	190	1	26.11	22.66	38.45	PASS
EGPRS850	190	2	24.46	21.01	38.45	PASS
EGPRS850	190	3	23.38	19.93	38.45	PASS
EGPRS850	190	4	22.36	18.91	38.45	PASS
EGPRS850	251	1	25.95	22.5	38.45	PASS
EGPRS850	251	2	24.42	20.97	38.45	PASS
EGPRS850	251	3	23.47	20.02	38.45	PASS
EGPRS850	251	4	22.26	18.81	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	22.64	24.44	33.00	PASS
EGPRS1900	512	2	22.06	23.86	33.00	PASS
EGPRS1900	512	3	20.51	22.31	33.00	PASS
EGPRS1900	512	4	19.56	21.36	33.00	PASS
EGPRS1900	661	1	22.55	24.35	33.00	PASS
EGPRS1900	661	2	22.12	23.92	33.00	PASS
EGPRS1900	661	3	20.04	21.84	33.00	PASS
EGPRS1900	661	4	19.44	21.24	33.00	PASS
EGPRS1900	810	1	22.36	24.16	33.00	PASS
EGPRS1900	810	2	22.09	23.89	33.00	PASS
EGPRS1900	810	3	20.04	21.84	33.00	PASS
EGPRS1900	810	4	19.79	21.59	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.2	13	PASS
GSM850	190	8.2	13	PASS
GSM850	251	8.02	13	PASS
EGPRS850	128	9.24	13	PASS
EGPRS850	190	8.28	13	PASS
EGPRS850	251	8.30	13	PASS
GSM1900	512	9.62	13	PASS
GSM1900	661	9.52	13	PASS
GSM1900	810	9.52	13	PASS
GPRS1900	512	9.7	13	PASS
GPRS1900	661	9.7	13	PASS
GPRS1900	810	9.7	13	PASS



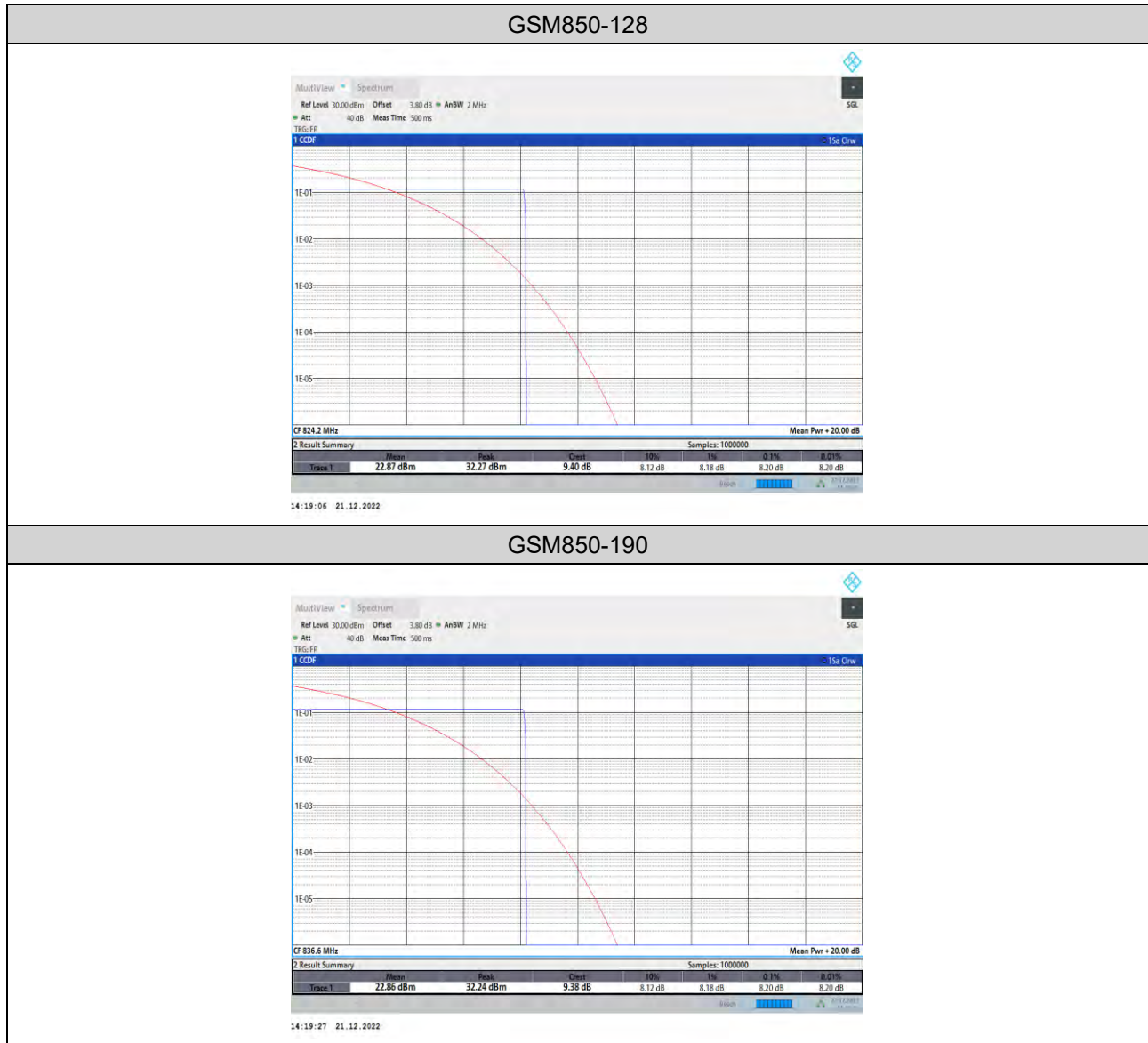
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Test Graphs

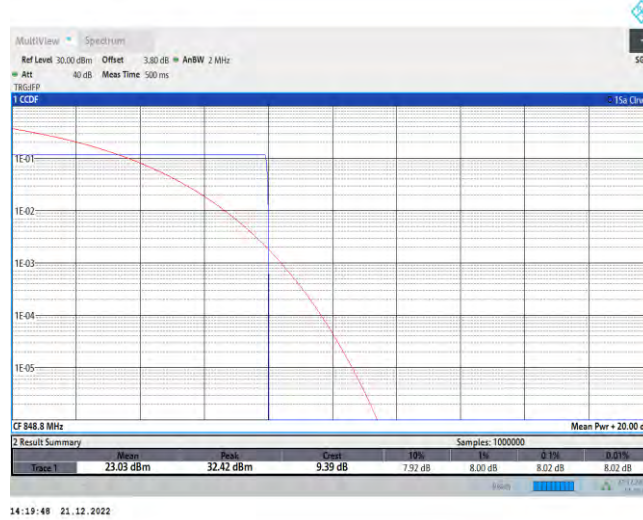


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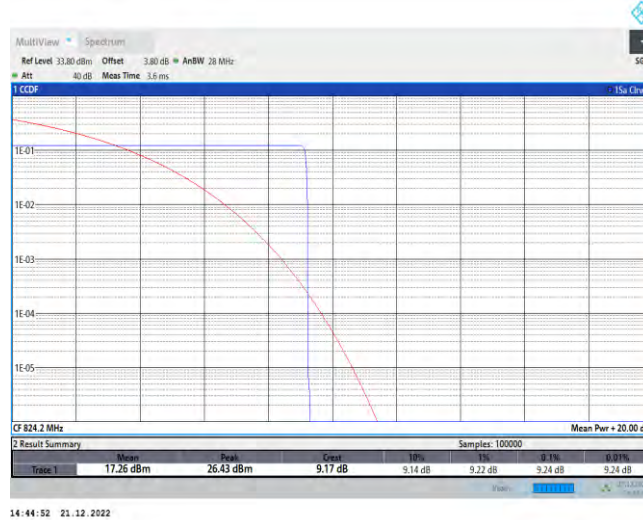
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GSM850-251



EGPRS850-128

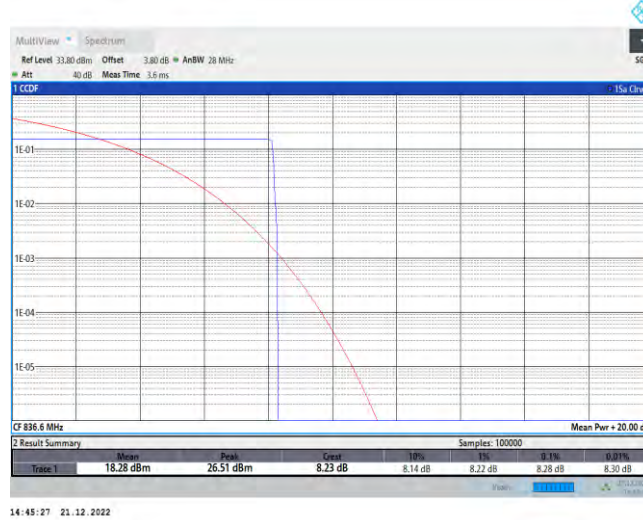


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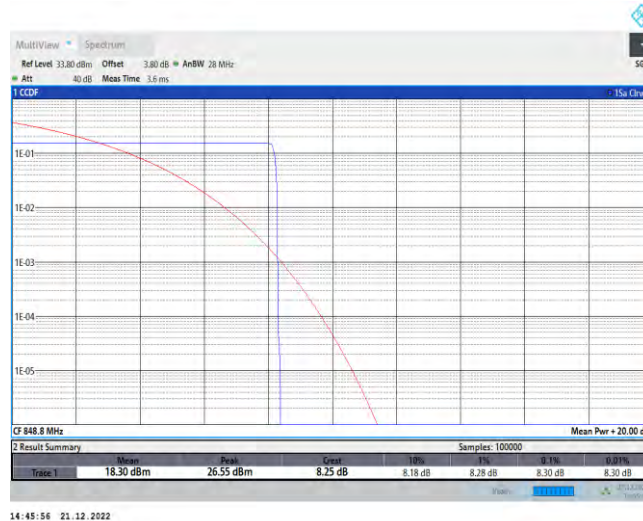
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EGPRS850-190



14:45:27 21.12.2022

EGPRS850-251



14:45:56 21.12.2022

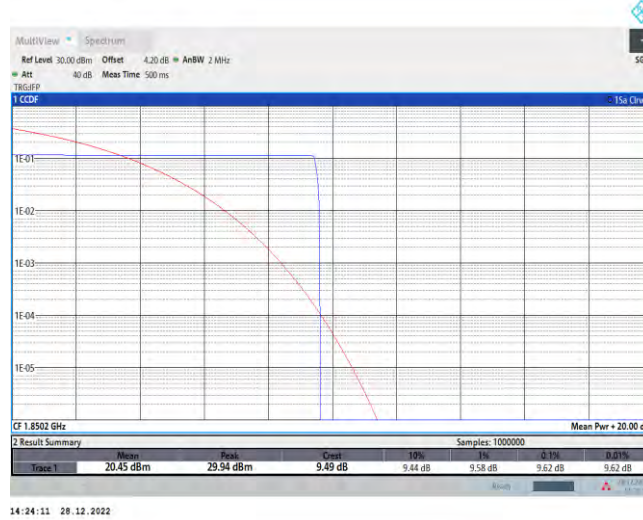


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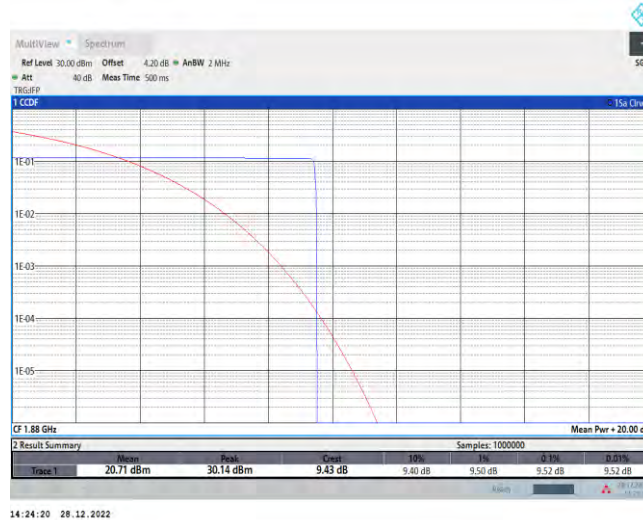
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GSM1900-512



GSM1900-661



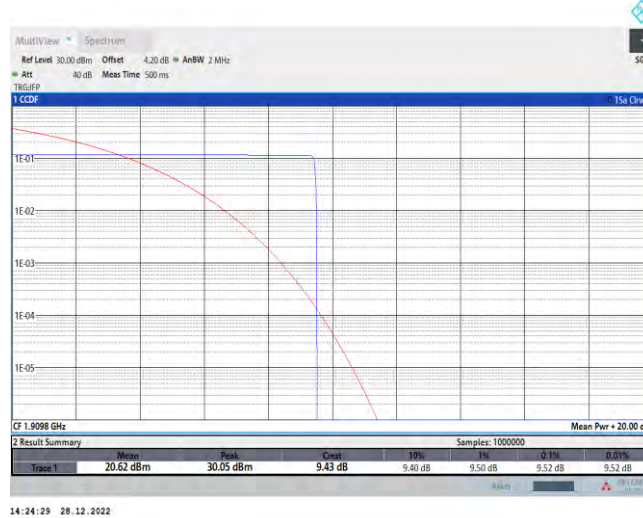
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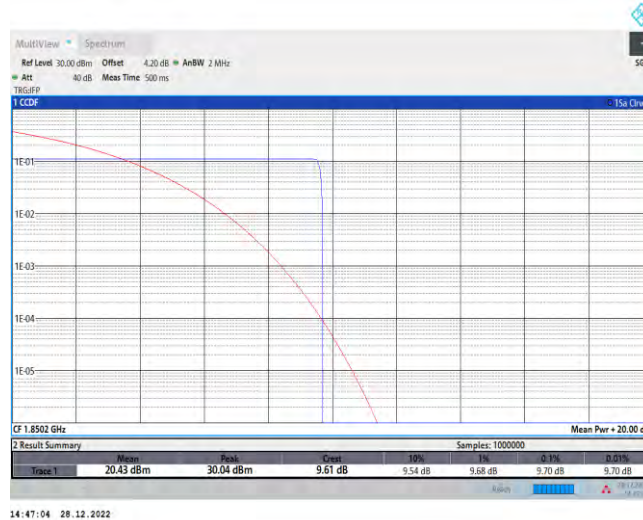
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GSM1900-810



EGPRS1900-512

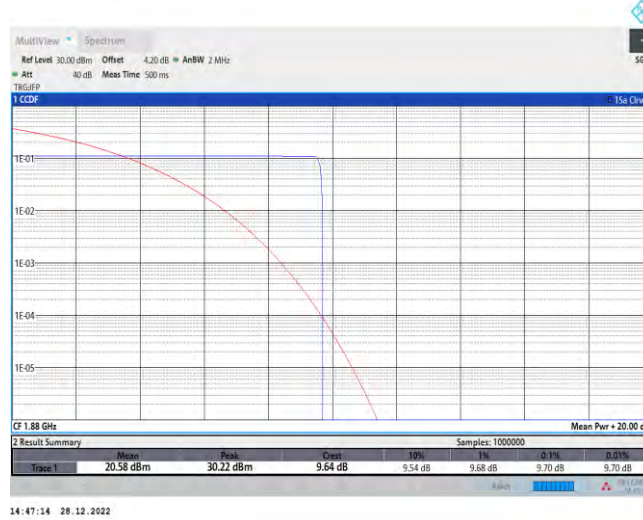


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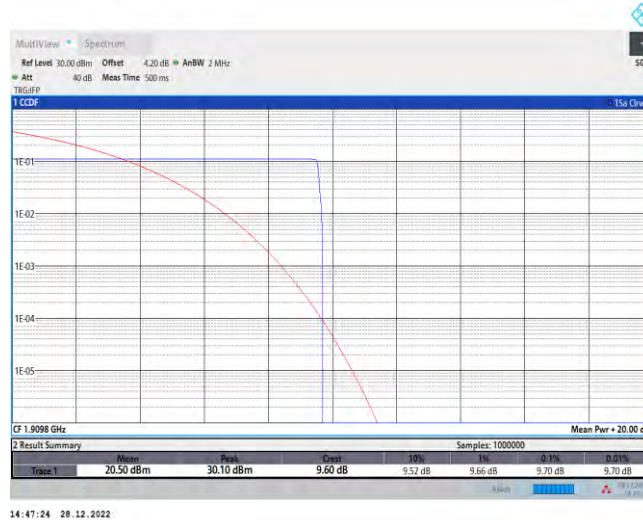
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EGPRS1900-661



EGPRS1900-810



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## Modulation Characteristics

### Test Result

Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS



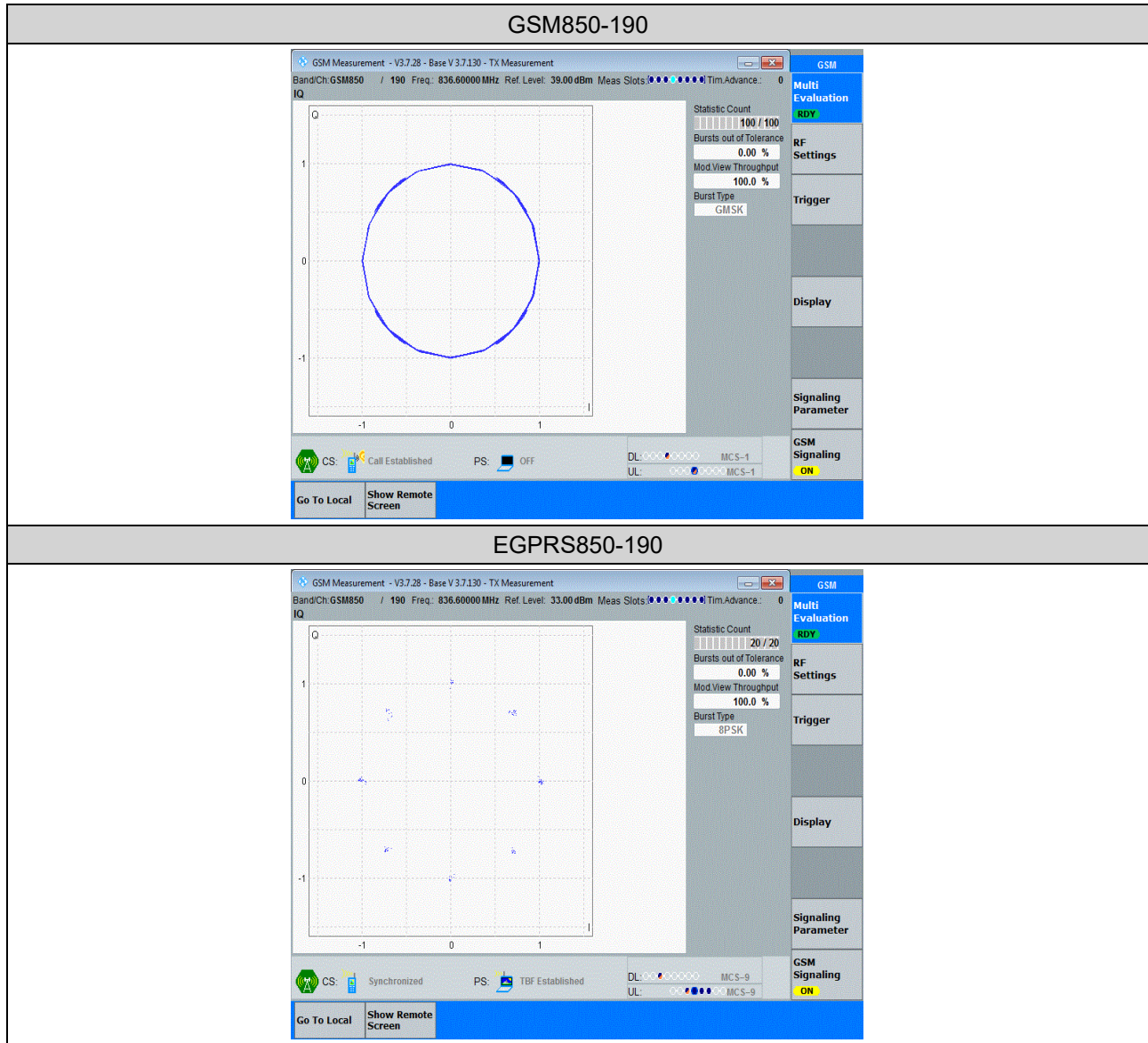
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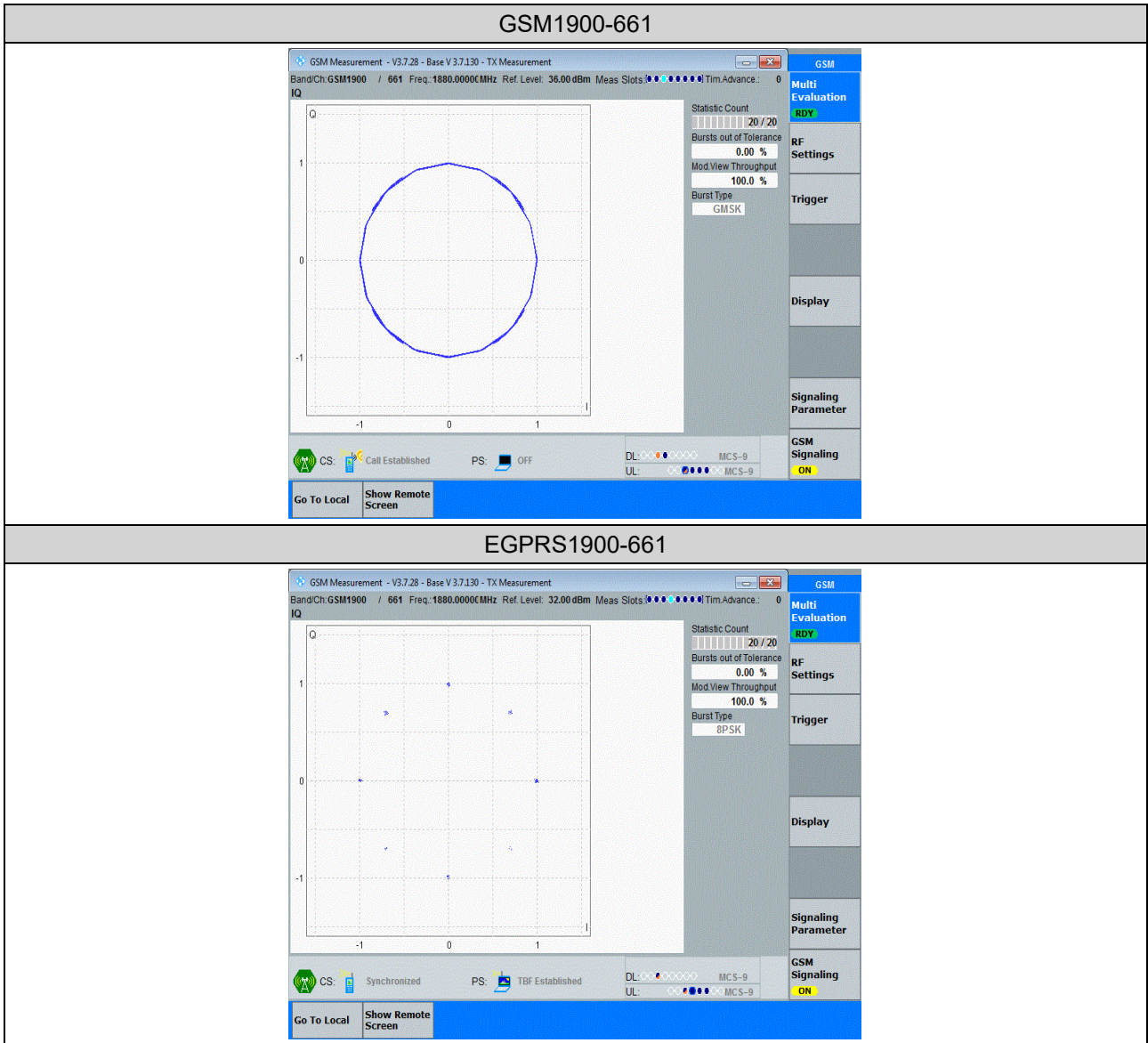
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Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.245	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.246	0.32	---	PASS
EGPRS850	128	0.245	0.32	---	PASS
EGPRS850	190	0.246	0.32	---	PASS
EGPRS850	251	0.246	0.32	---	PASS
GSM1900	512	0.245	0.31	---	PASS
GSM1900	661	0.248	0.31	---	PASS
GSM1900	810	0.246	0.32	---	PASS
EGPRS1900	512	0.248	0.32	---	PASS
EGPRS1900	661	0.247	0.32	---	PASS
EGPRS1900	810	0.246	0.32	---	PASS



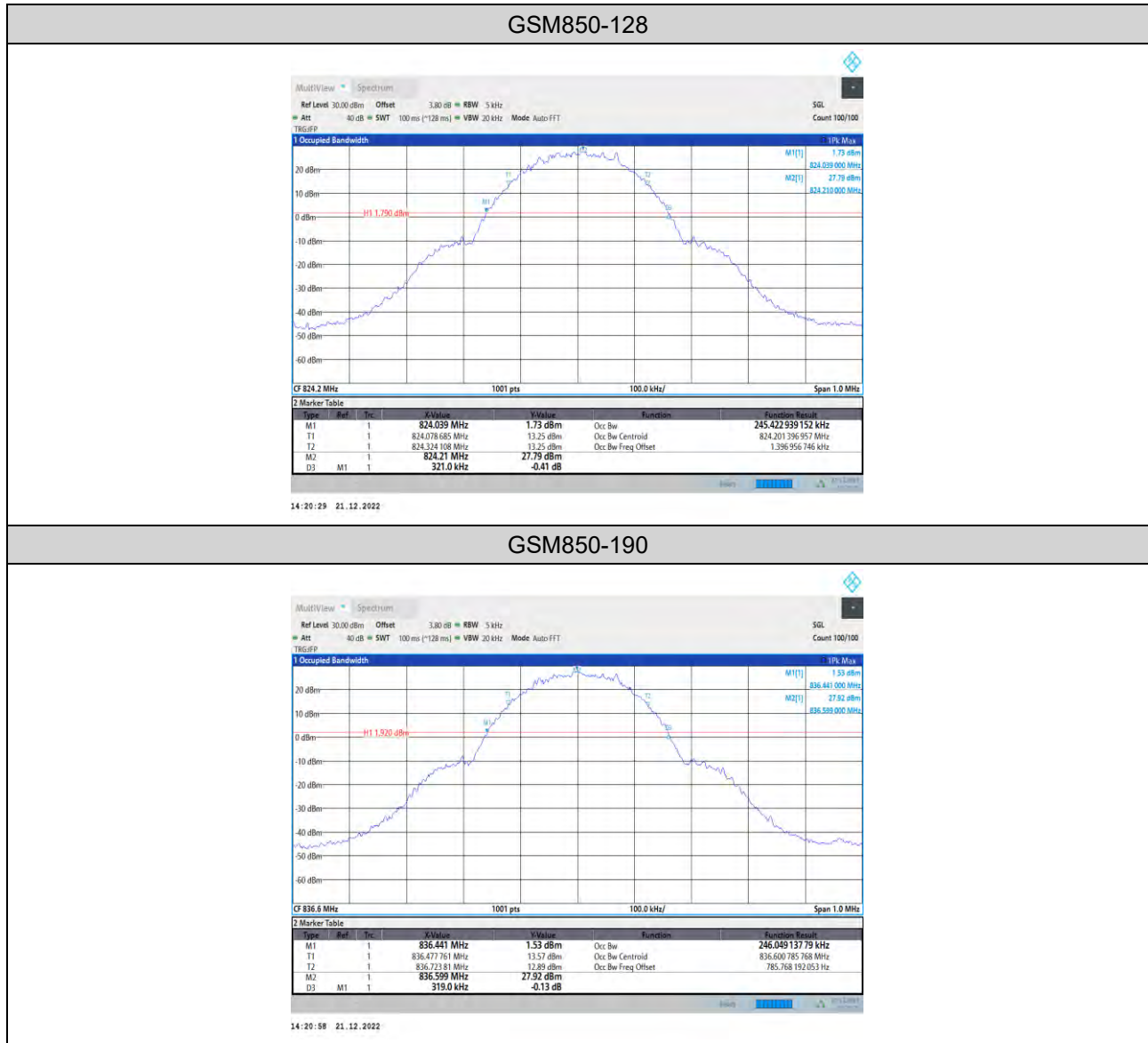
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Test Graphs



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GSM850-251



EGPRS850-128



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EGPRS850-190



14:51:13 21.12.2022

EGPRS850-251



14:52:42 21.12.2022

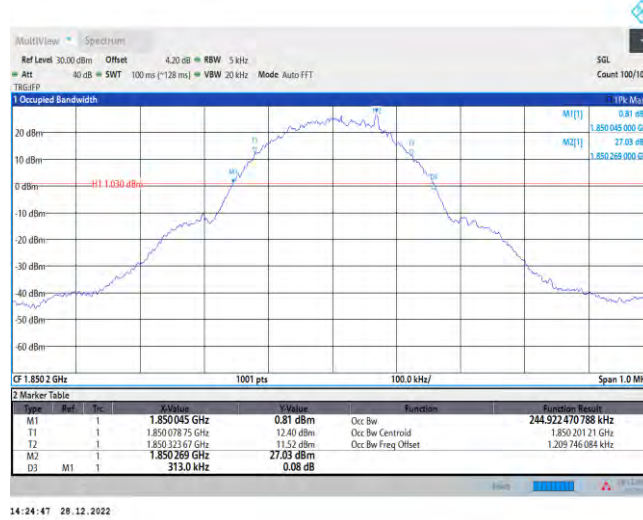


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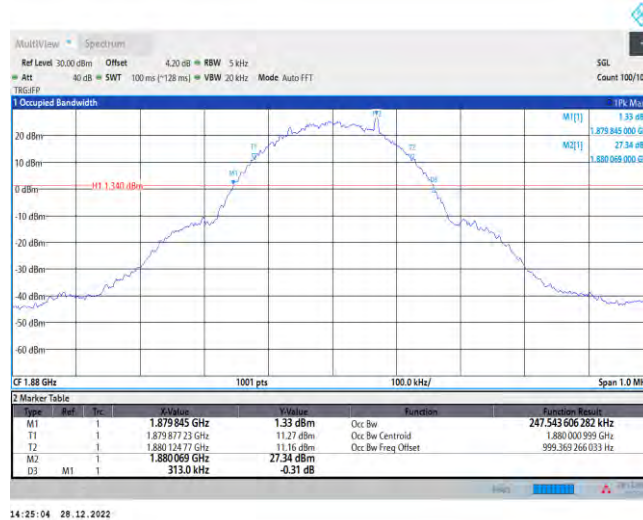
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GSM1900-512



GSM1900-661

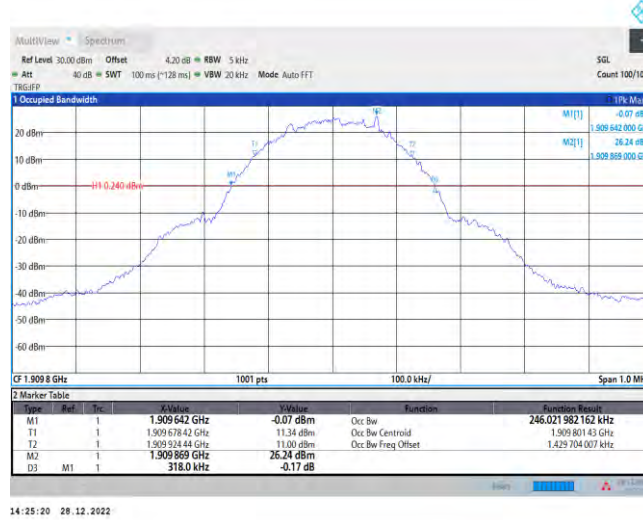


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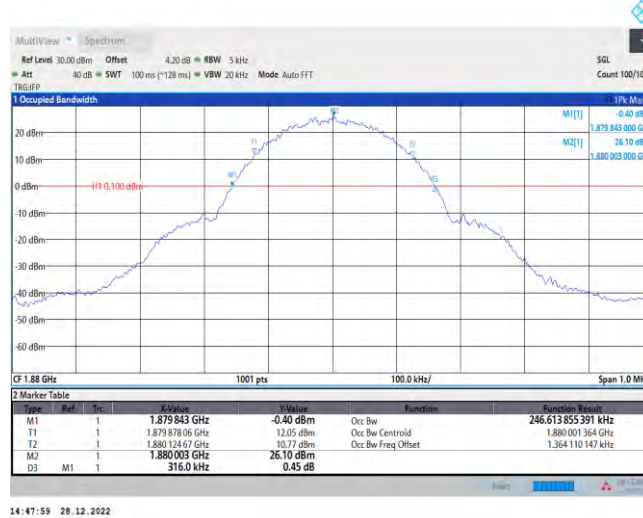
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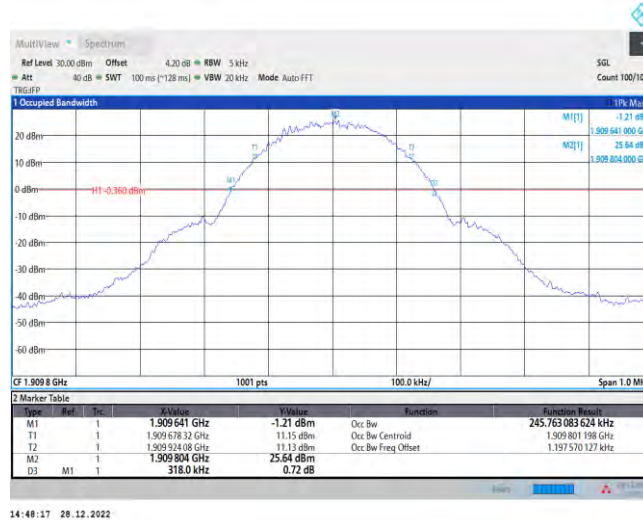
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EGPRS1900-810

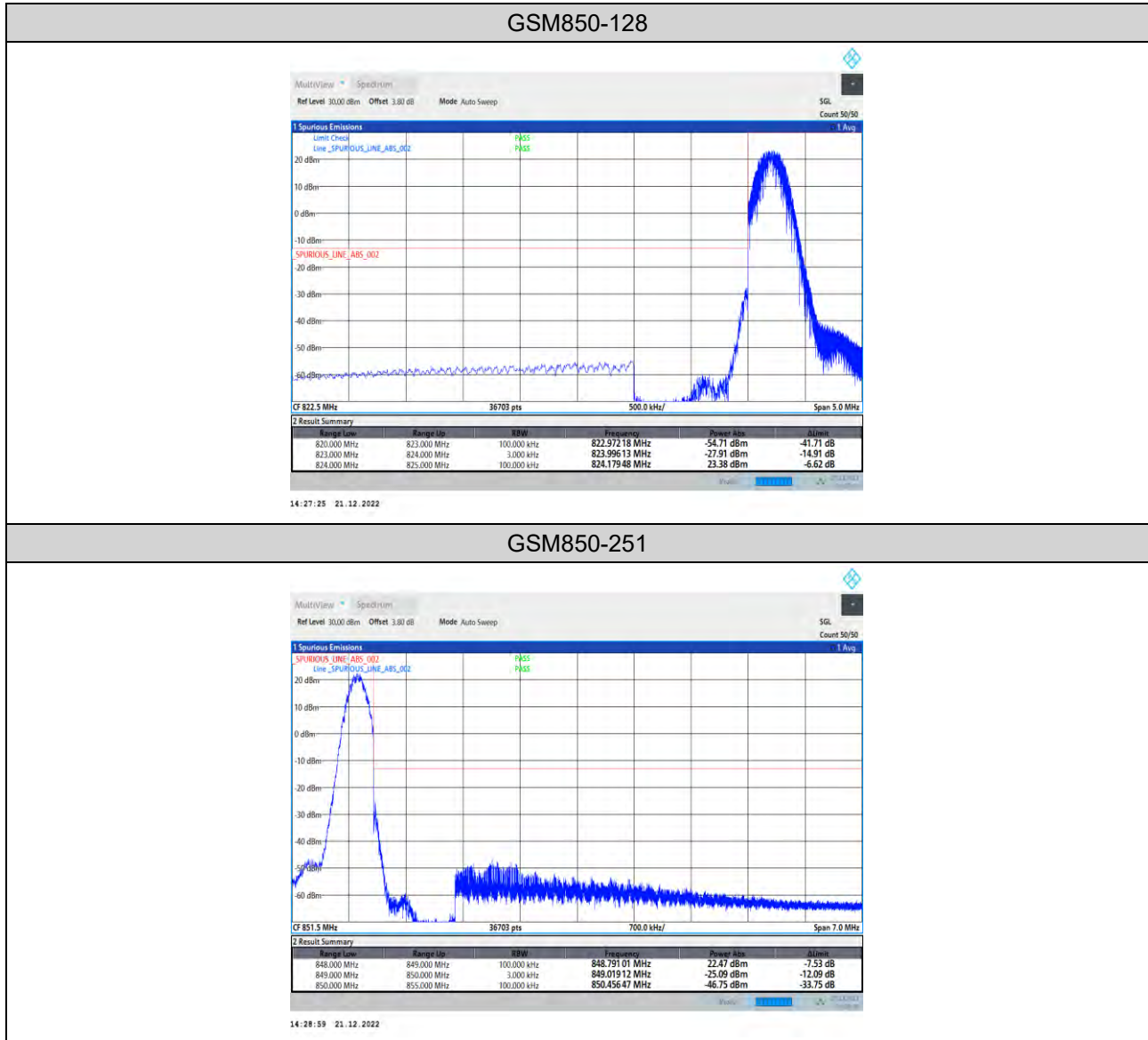


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## Band Edge

## Test Graphs

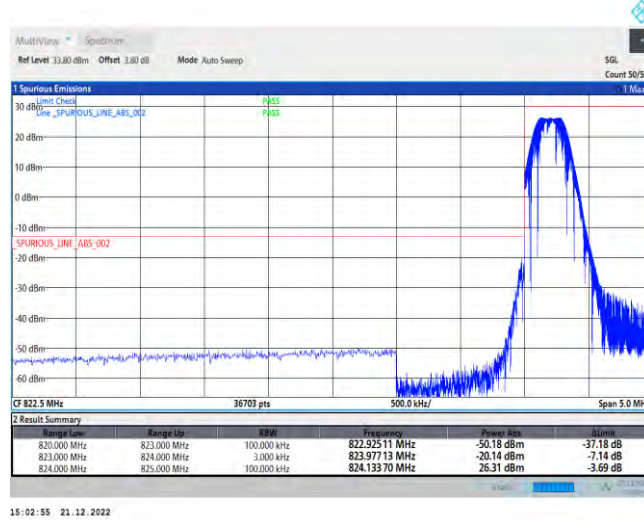


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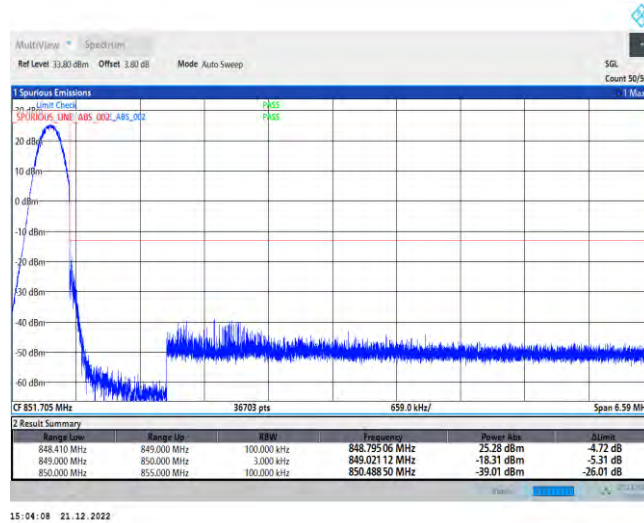
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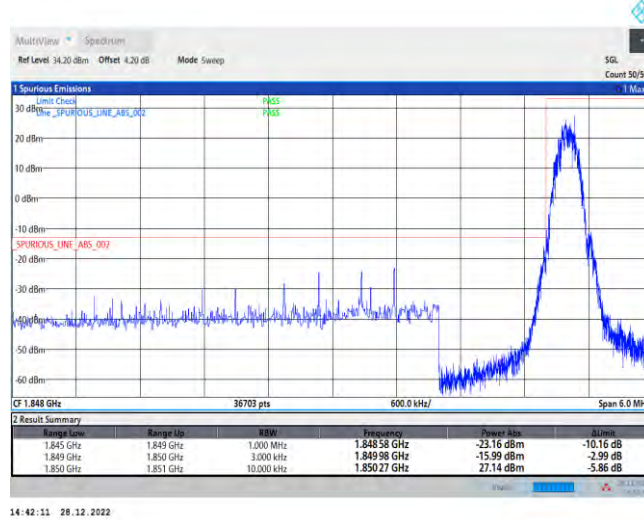
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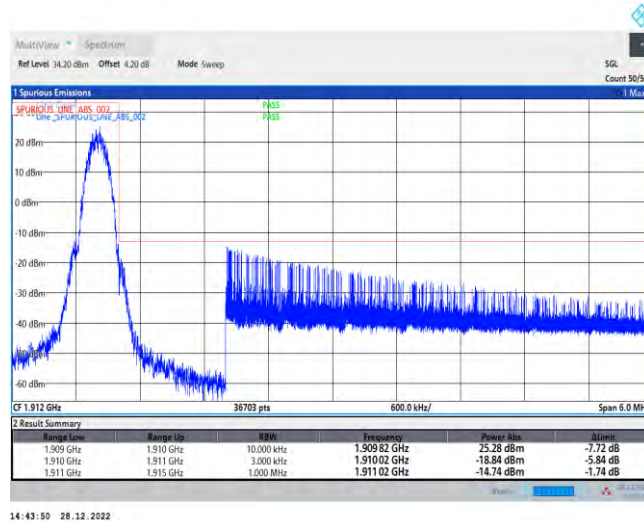
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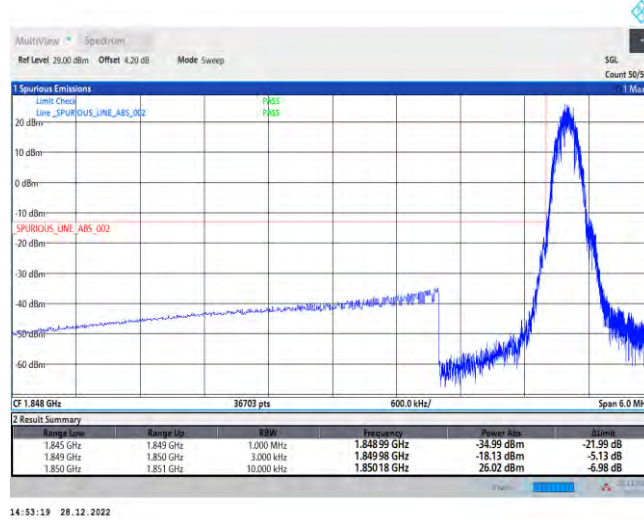
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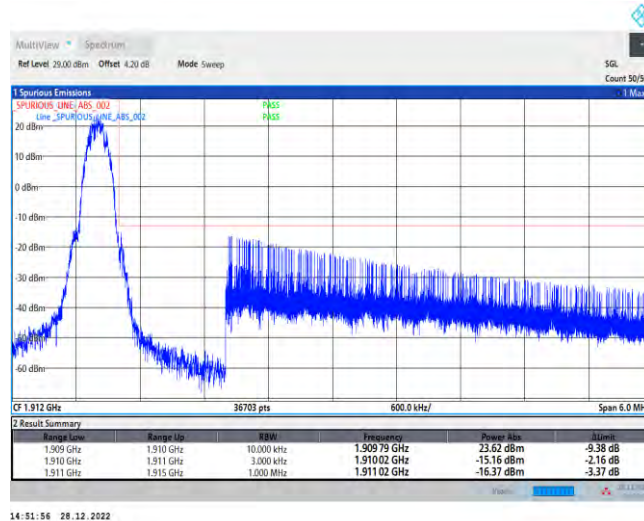
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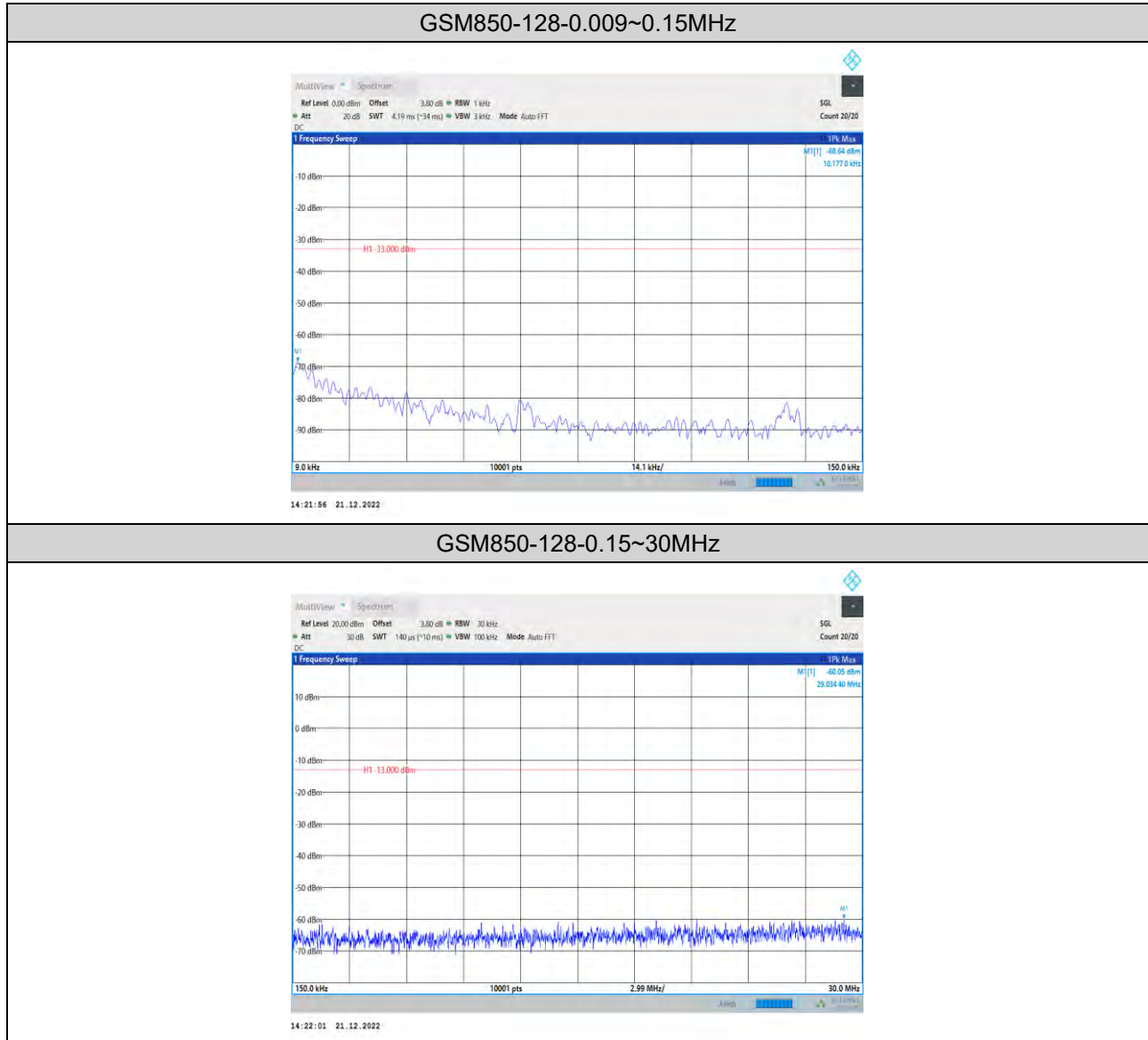
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## Conducted Spurious Emission

### Test Graphs



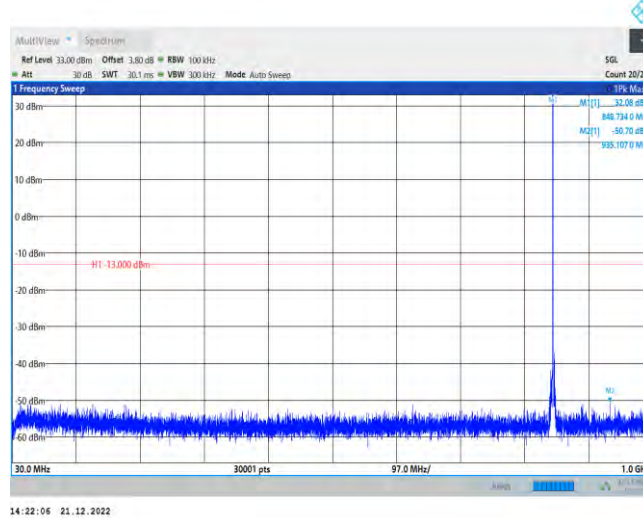
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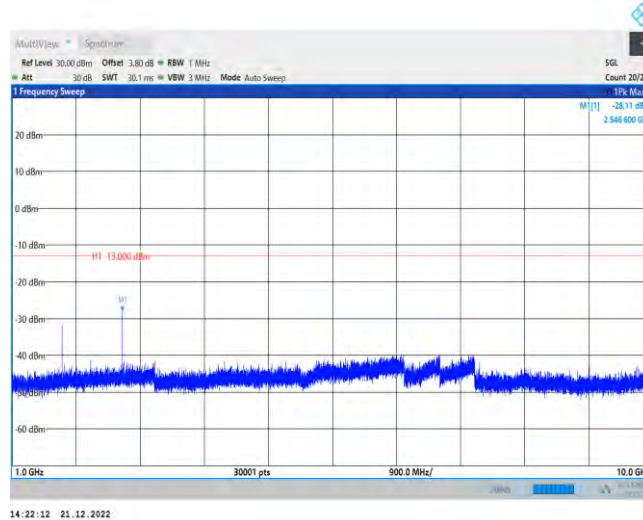
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GSM850-128-30~1000MHz



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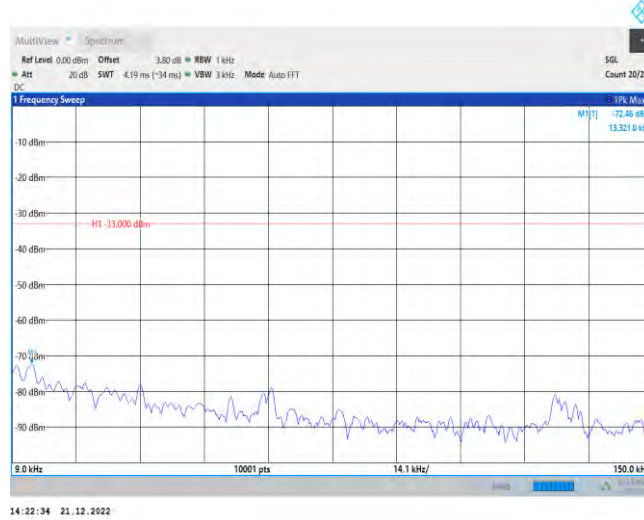
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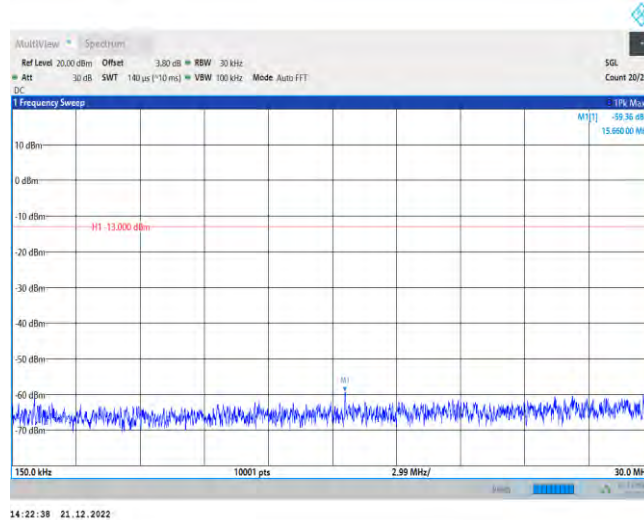
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GSM850-190-0.15~30MHz



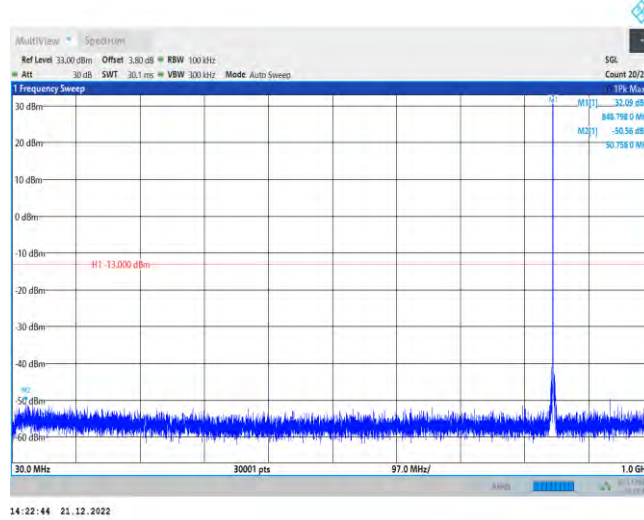
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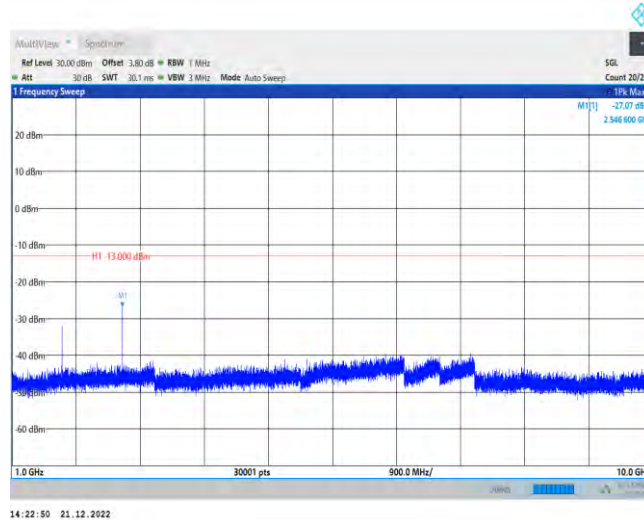
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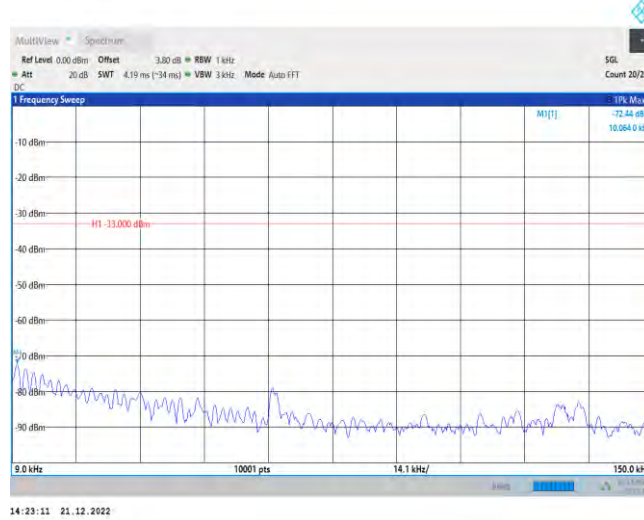
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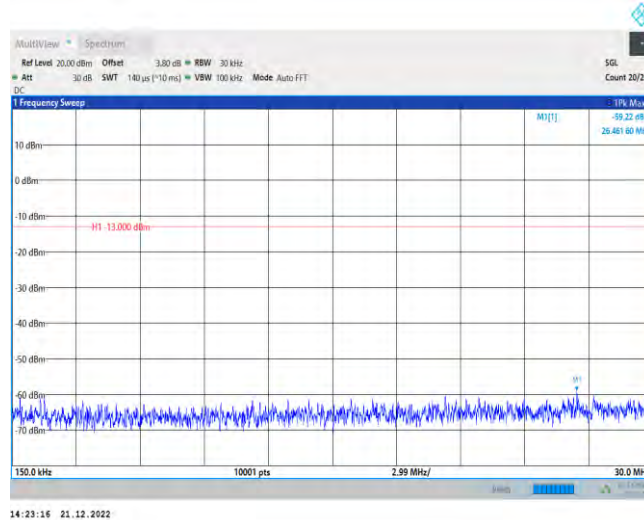
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GSM850-251-0.009~0.15MHz



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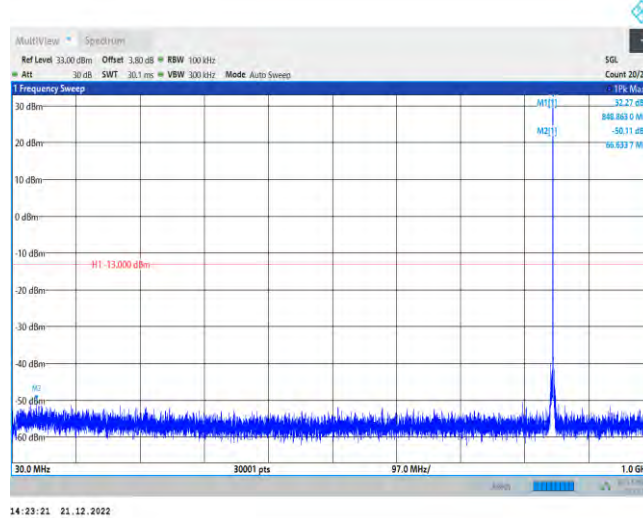
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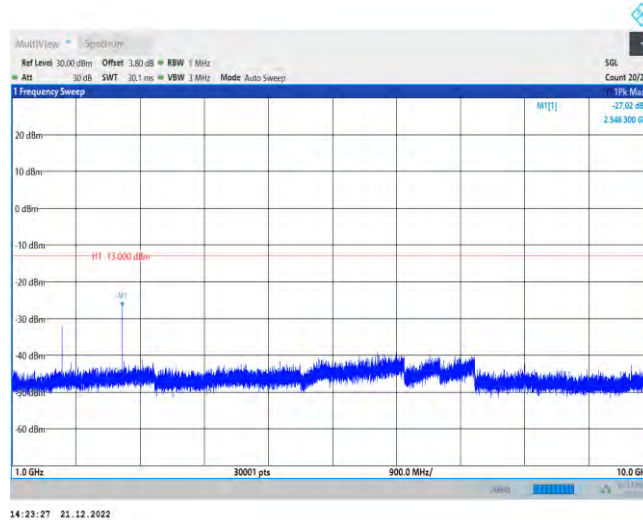
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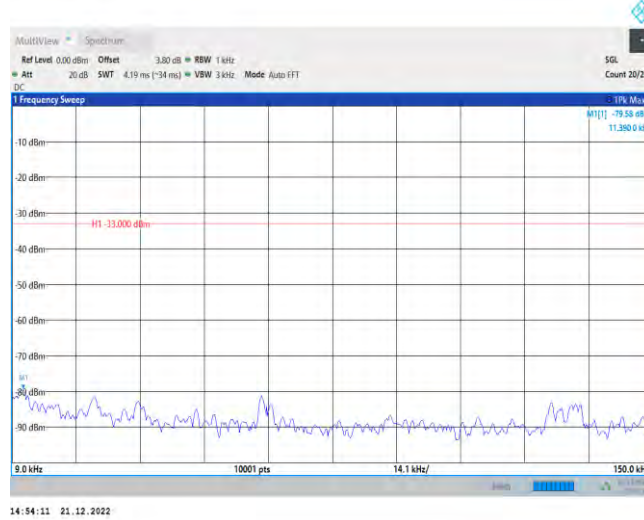


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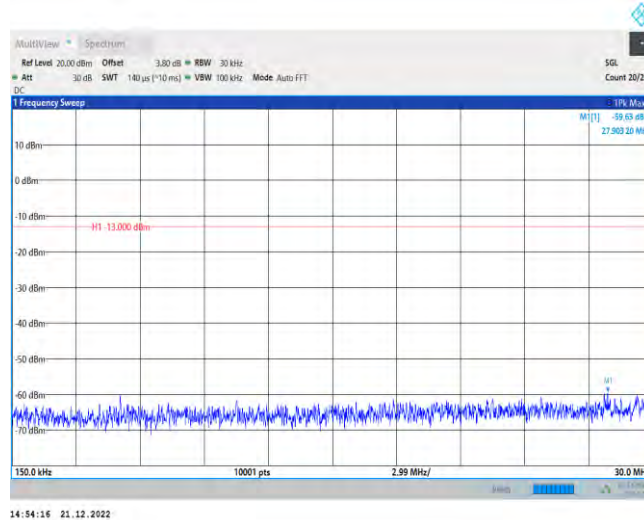
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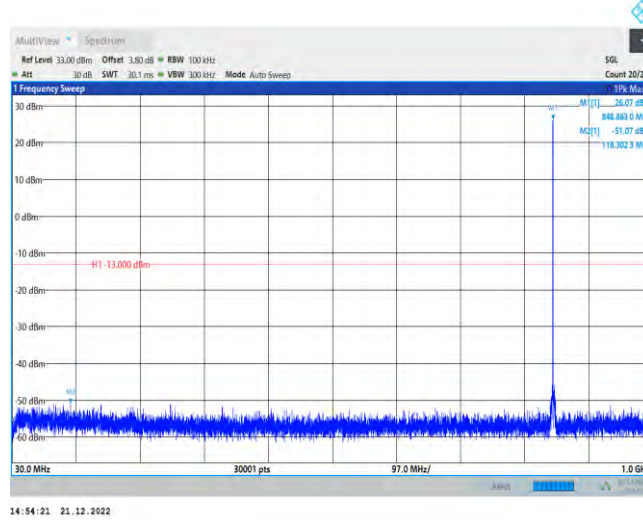
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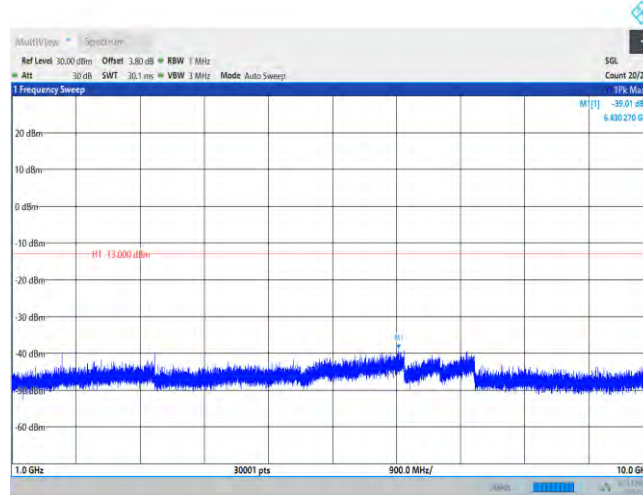
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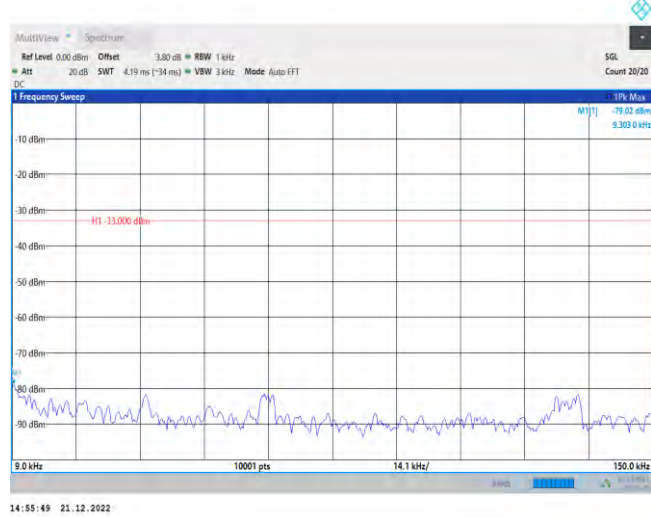
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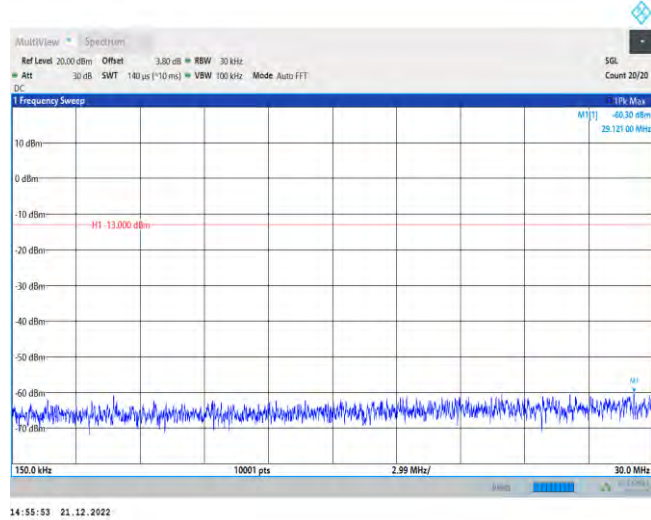
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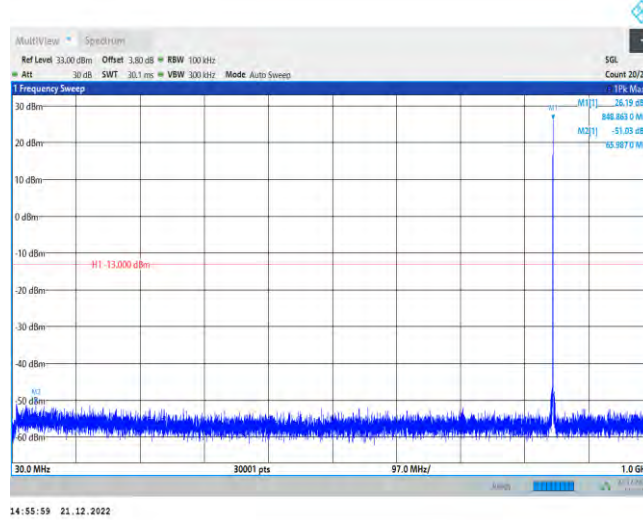
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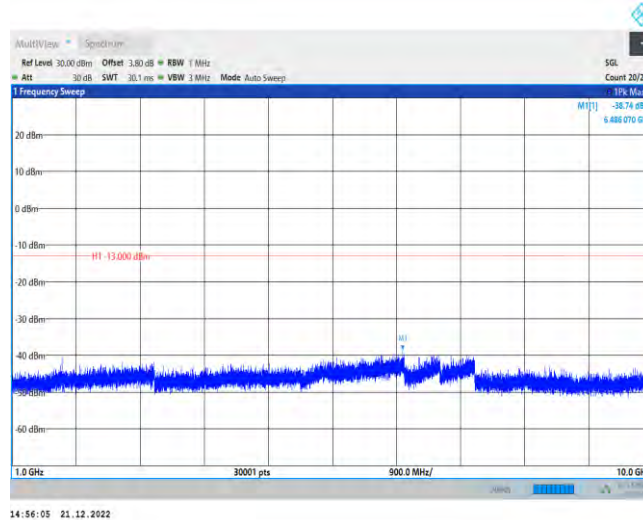
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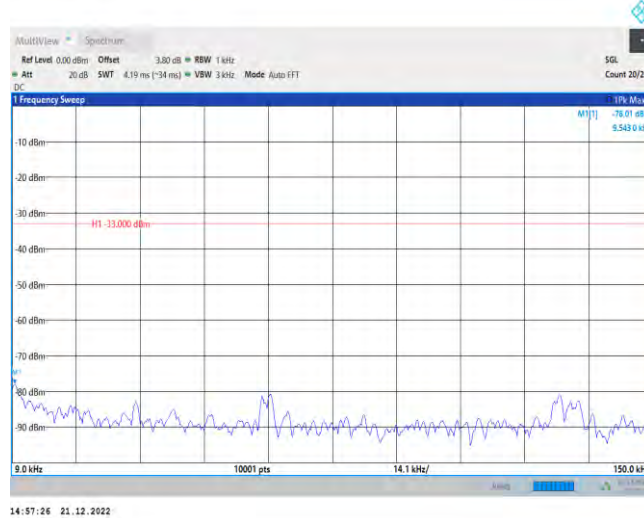
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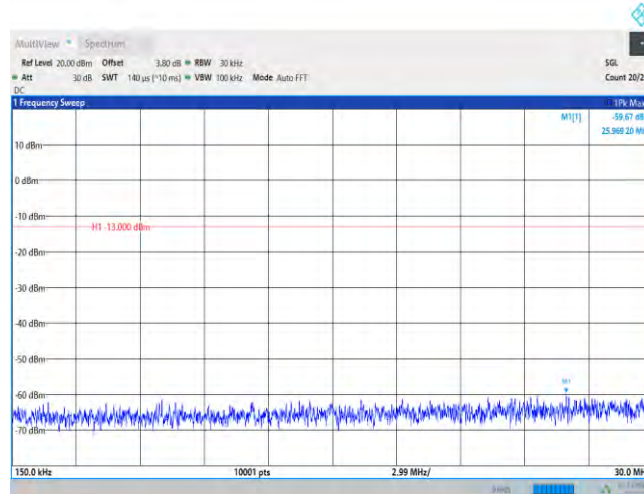
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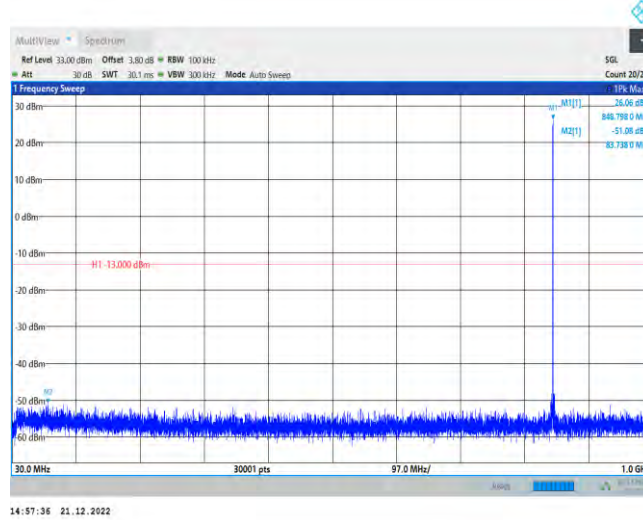
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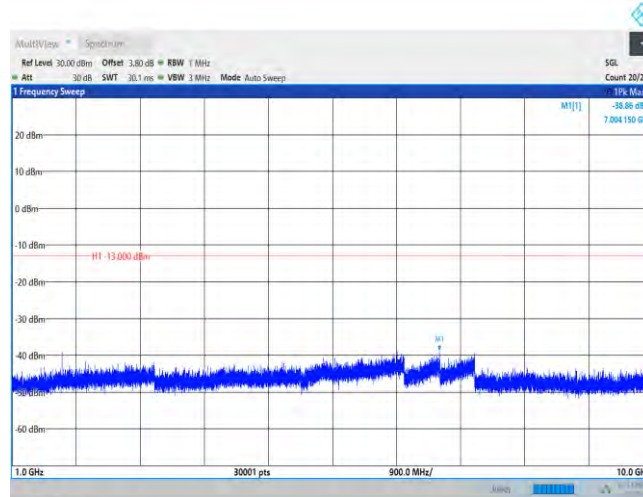
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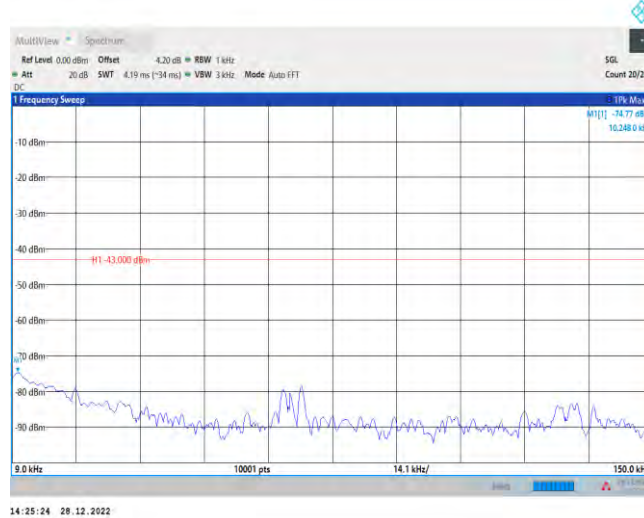
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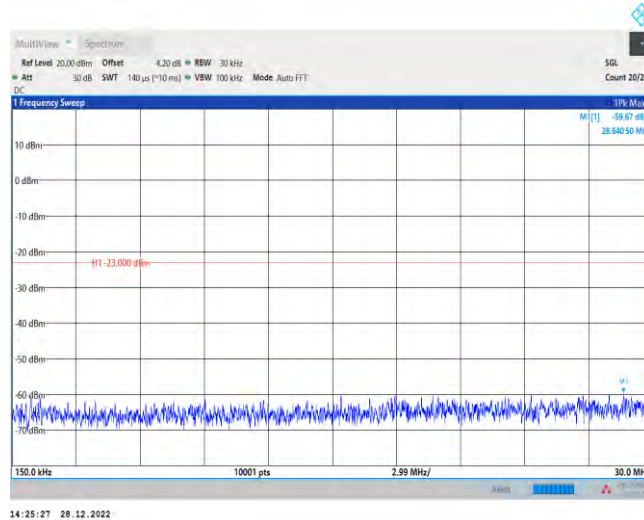
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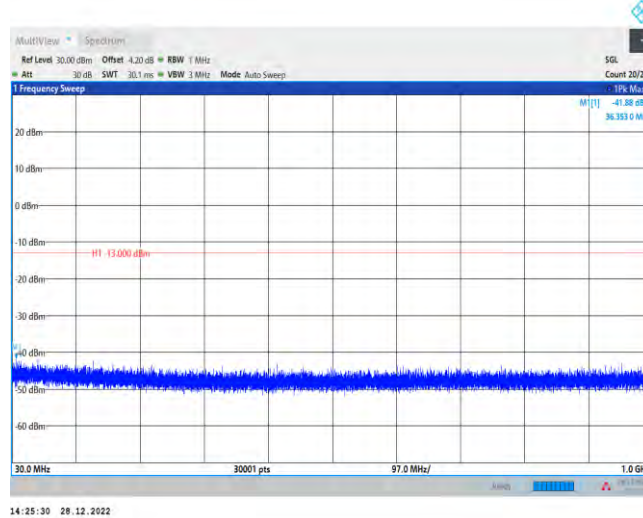
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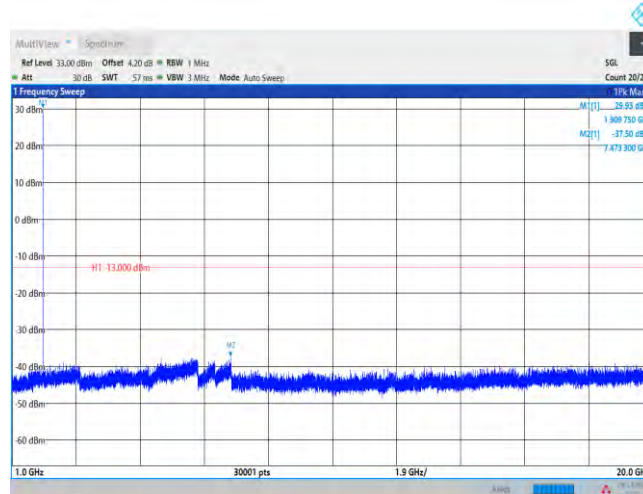
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GSM1900-512-30~1000MHz



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GSM1900-512-1000~20000MHz



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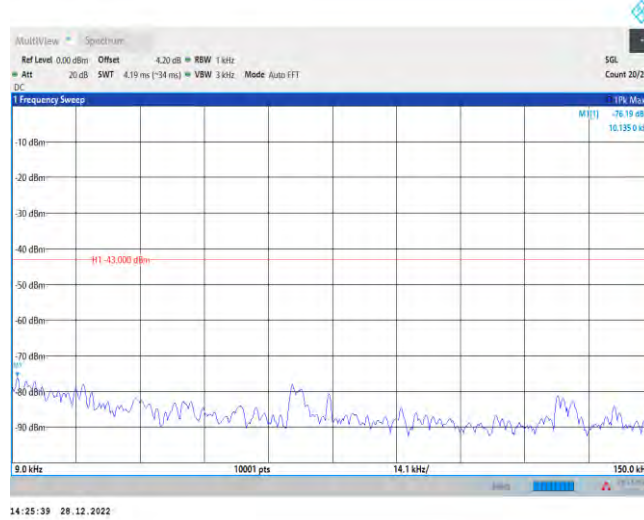
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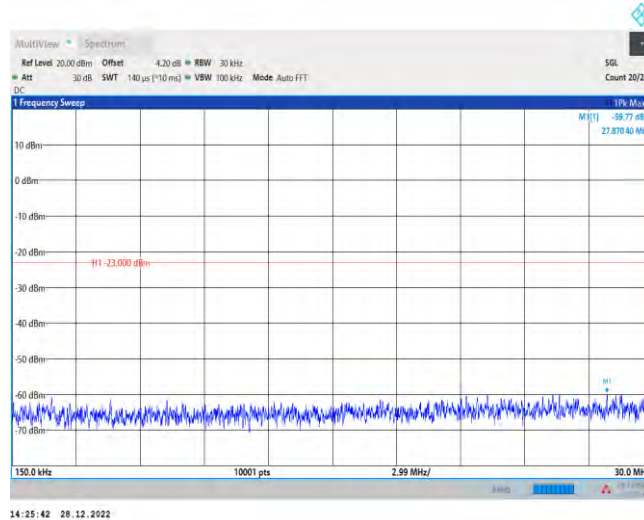
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



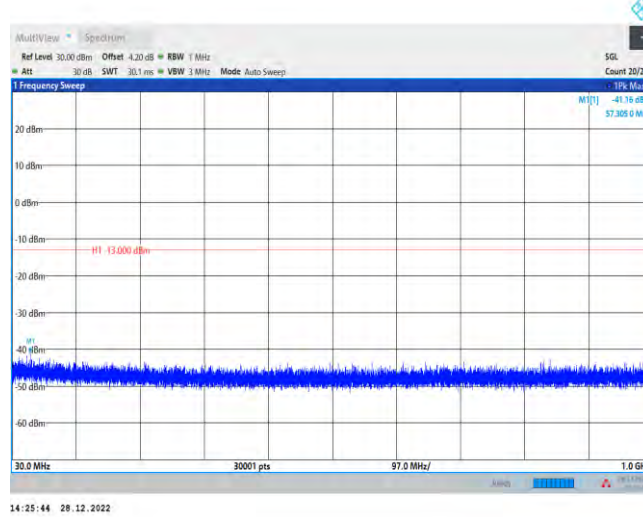
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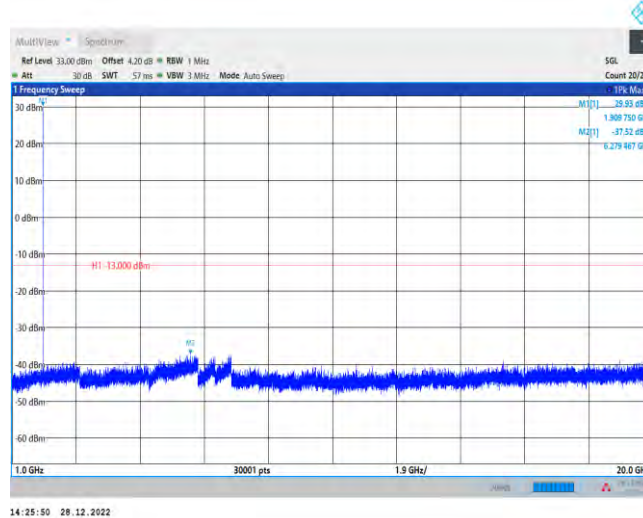
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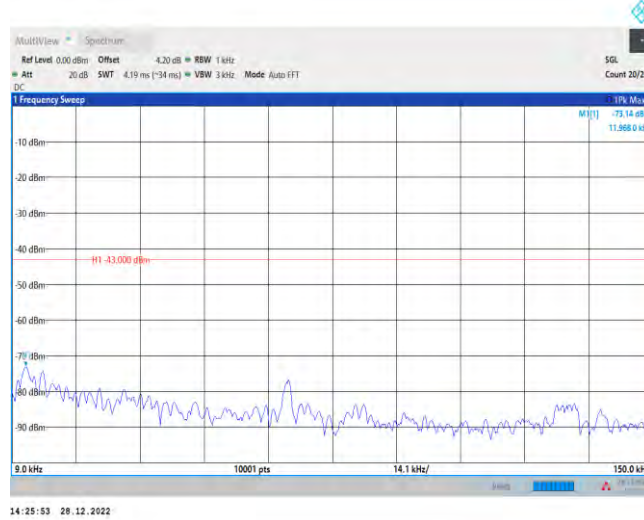
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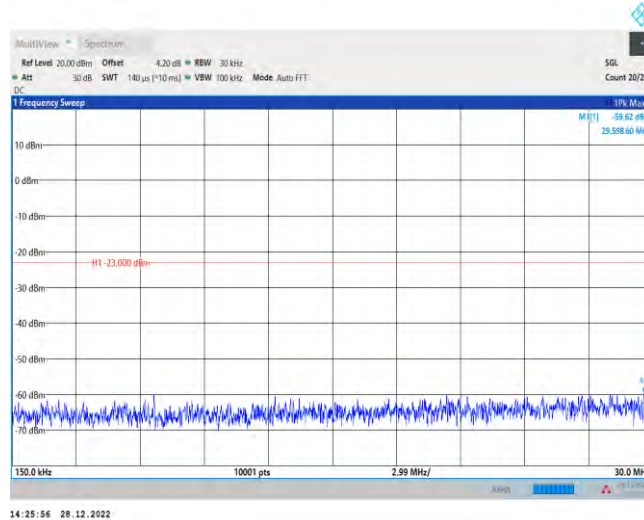
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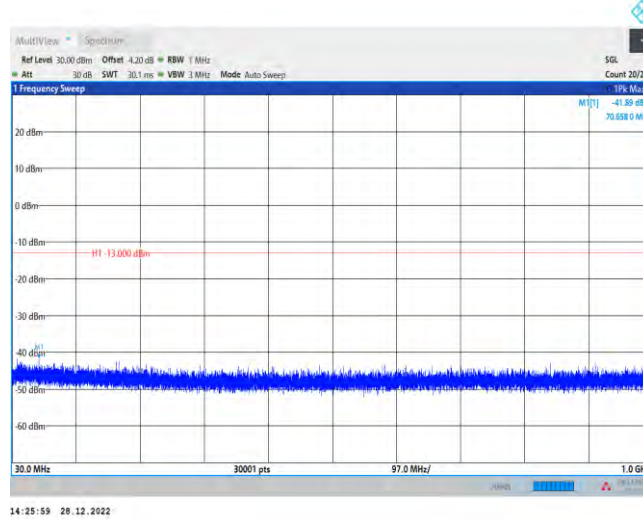


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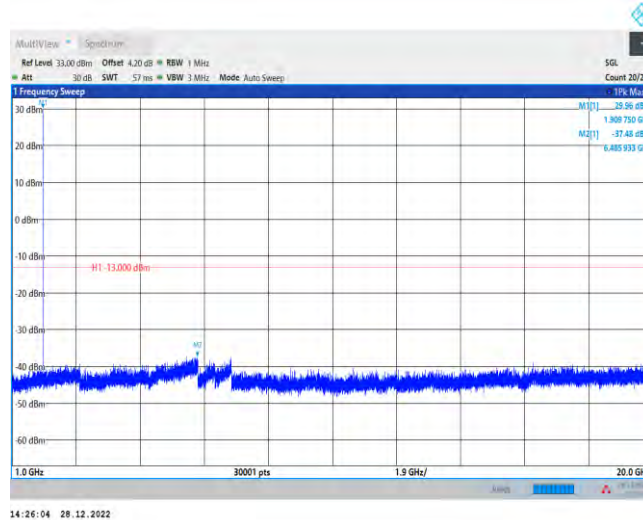
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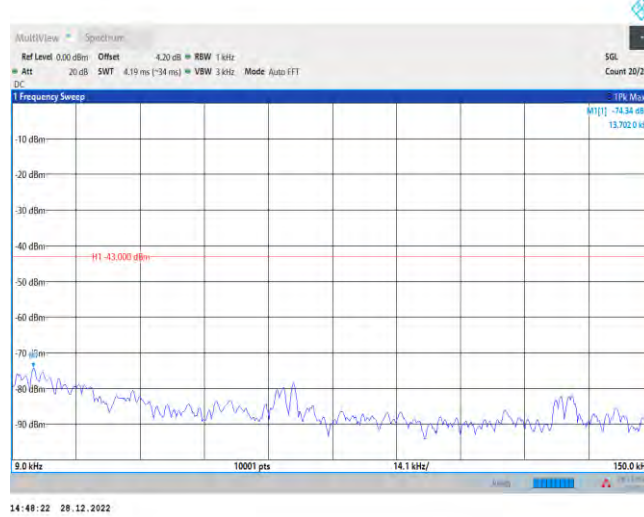
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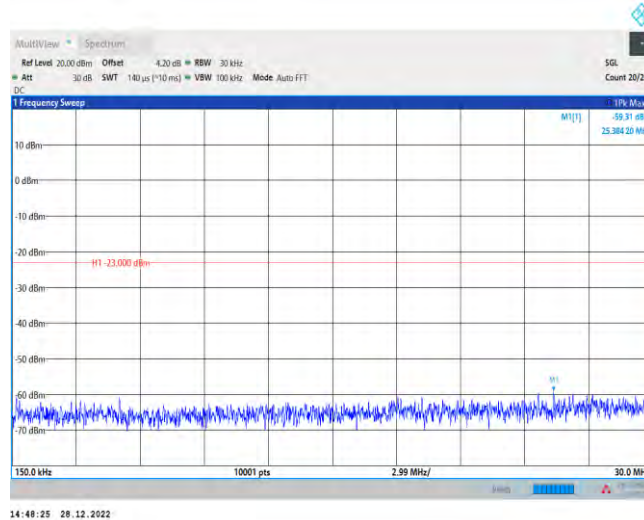
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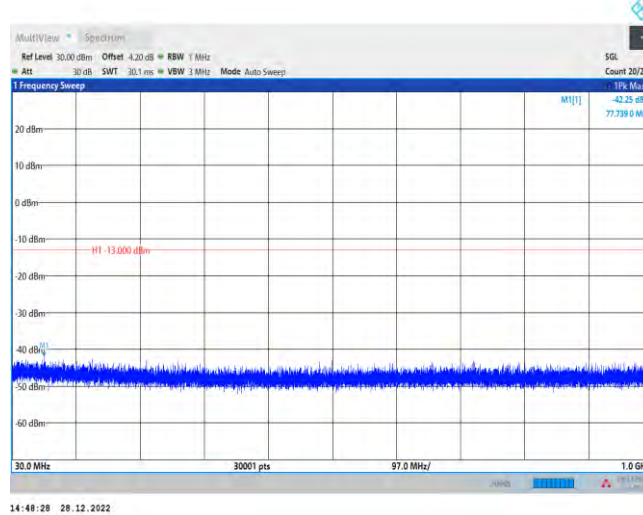


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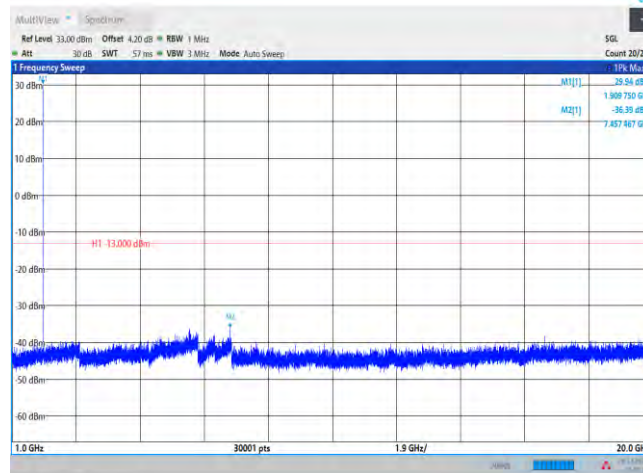
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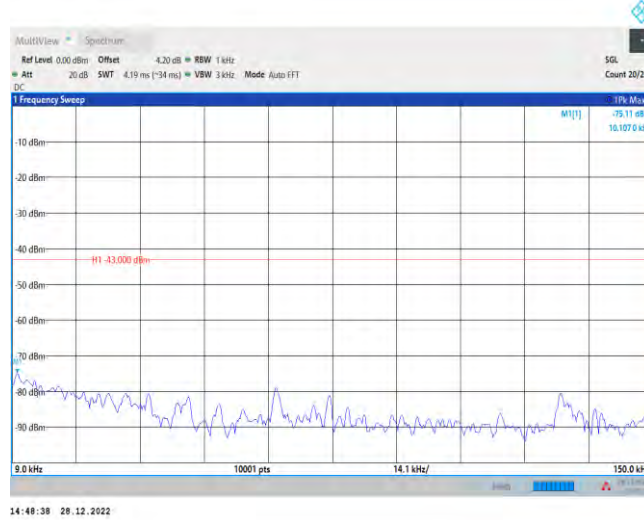
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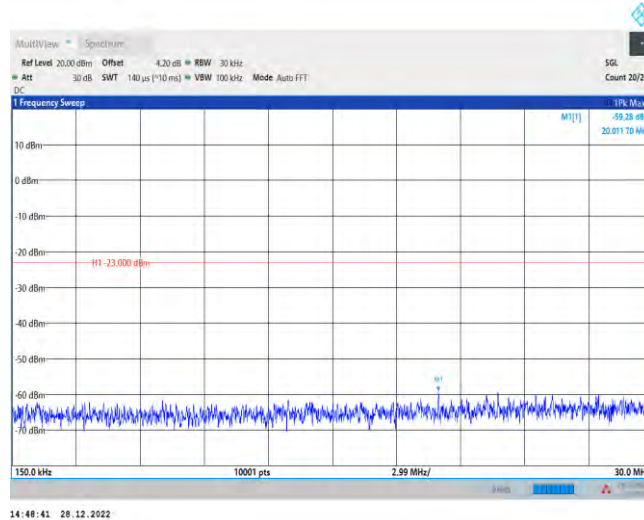
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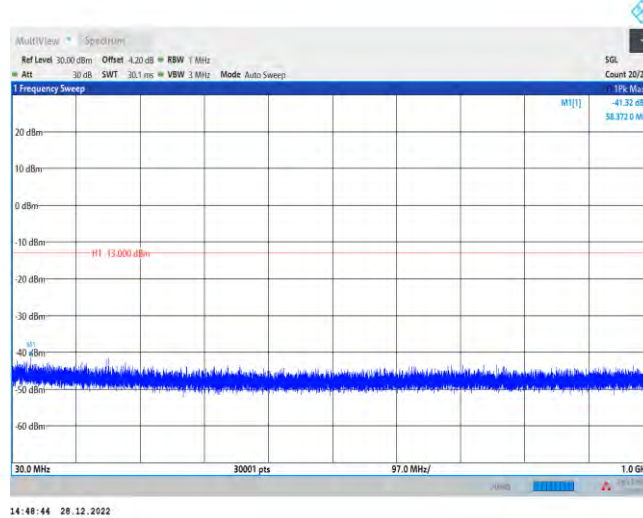


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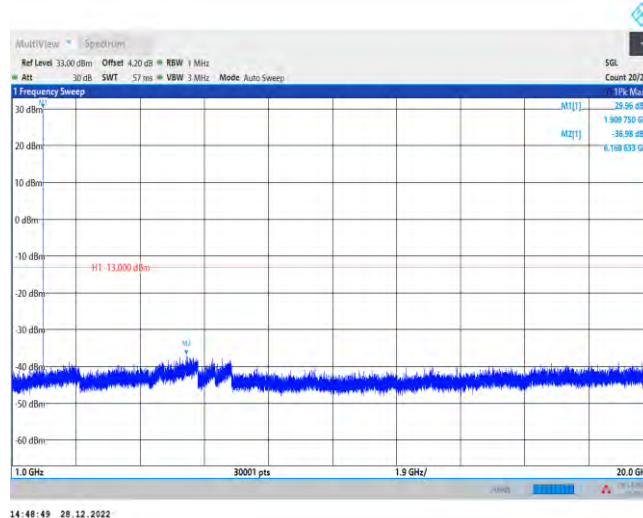
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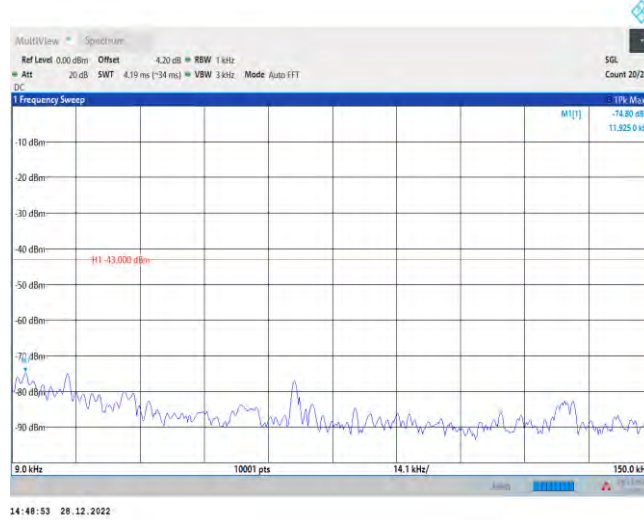


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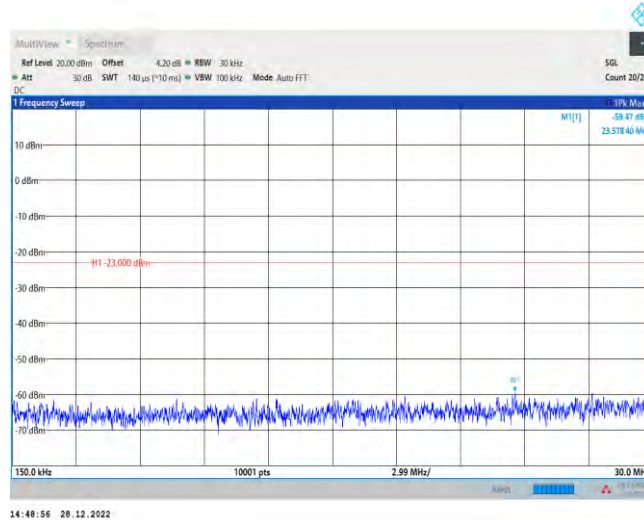
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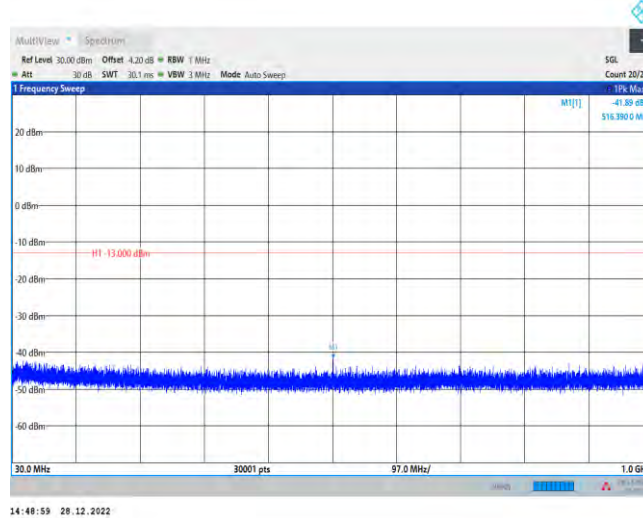


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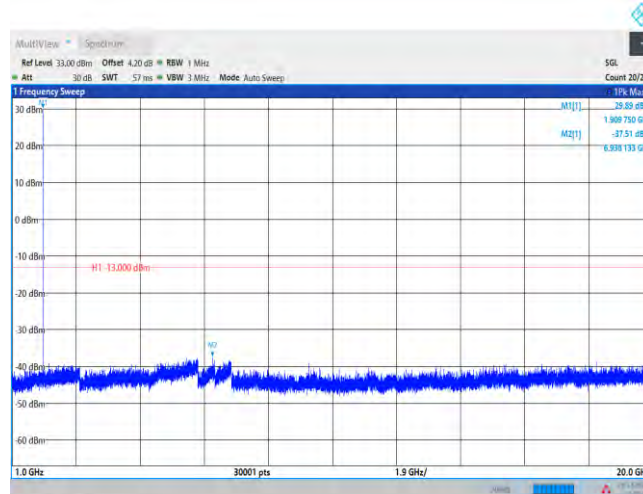
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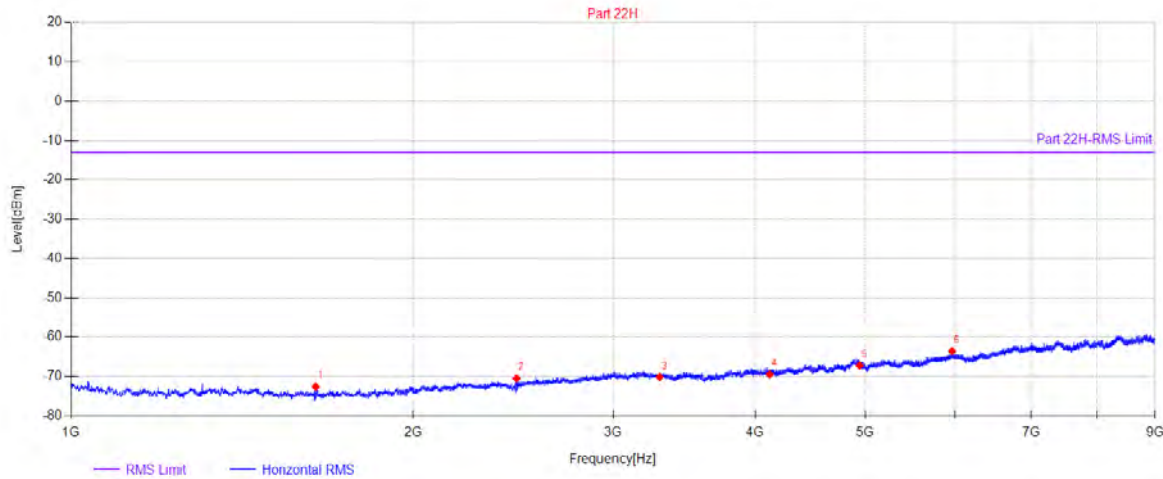
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### Field Strength of Spurious Radiation

Test Band = GSM850\_ TM1  
 Test Channel = Low

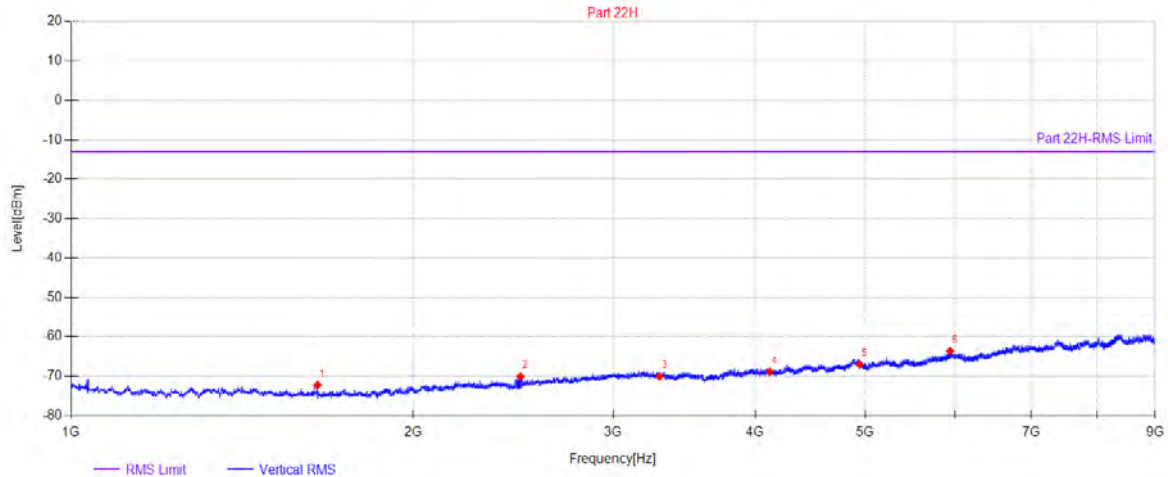


Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1641.7143	45.52	-48.23	25.37	-72.60	-13.00	59.60	142	2	Horizontal
2	2466.8571	44.47	-47.33	27.66	-70.46	-13.00	57.46	256	65	Horizontal
3	3296.8000	42.26	-46.67	29.56	-70.11	-13.00	57.11	259	280	Horizontal
4	4121.0000	40.76	-45.91	30.98	-69.43	-13.00	56.43	164	171	Horizontal
5	4945.2000	41.06	-45.69	32.73	-67.16	-13.00	54.16	174	130	Horizontal
6	5965.1429	42.24	-44.62	34.06	-63.57	-13.00	50.57	158	0	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	45.86	-48.22	25.37	-72.25	-13.00	59.25	211	354	Vertical
2	2486.2857	44.77	-47.29	27.72	-70.06	-13.00	57.06	149	360	Vertical
3	3296.8000	42.35	-46.67	29.56	-70.02	-13.00	57.02	195	161	Vertical
4	4121.0000	41.33	-45.91	30.98	-68.86	-13.00	55.86	175	347	Vertical
5	4945.2000	41.21	-45.69	32.73	-67.01	-13.00	54.01	148	188	Vertical
6	5940.5714	42.41	-44.75	34.02	-63.58	-13.00	50.58	186	106	Vertical



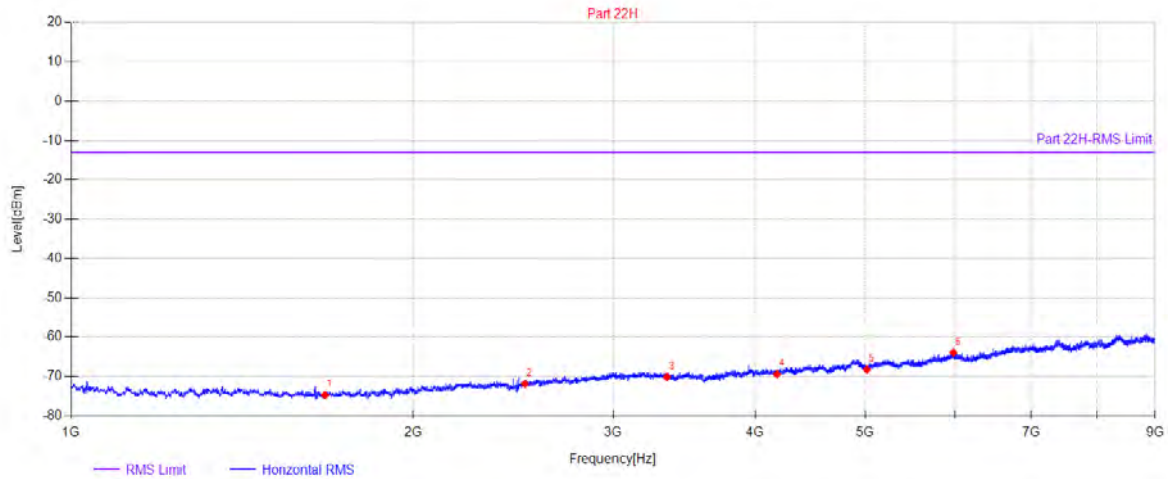
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Test Band = GSM850\_TM1  
 Test Channel = Mid



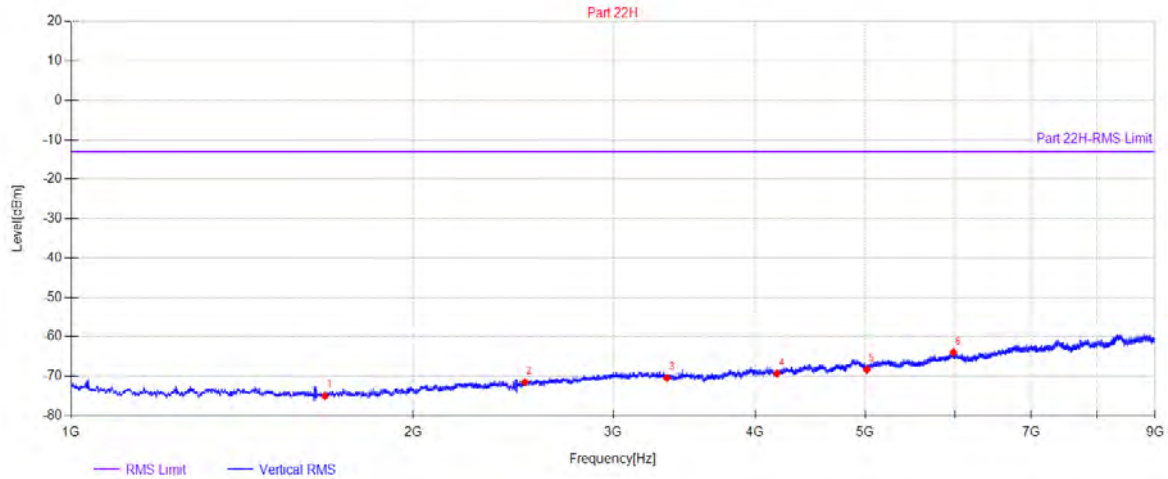
Data List										
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1	1672.8000	43.37	-48.19	25.38	-74.70	-13.00	61.70	247	6	Horizontal
2	2509.2000	42.83	-47.24	27.80	-71.86	-13.00	58.86	185	0	Horizontal
3	3345.6000	42.27	-46.62	29.50	-70.11	-13.00	57.11	169	306	Horizontal
4	4182.0000	40.75	-45.95	31.07	-69.39	-13.00	56.39	142	266	Horizontal
5	5018.4000	39.89	-45.73	32.89	-68.21	-13.00	55.21	133	184	Horizontal
6	5980	41.80	-44.54	34.09	-63.91	-13.00	50.91	125	130	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	43.09	-48.19	25.38	-74.98	-13.00	61.98	245	353	Vertical
2	2509.2000	43.21	-47.24	27.80	-71.48	-13.00	58.48	152	295	Vertical
3	3345.6000	41.96	-46.62	29.50	-70.42	-13.00	57.42	133	347	Vertical
4	4182.0000	40.88	-45.95	31.07	-69.26	-13.00	56.26	129	359	Vertical
5	5018.4000	39.81	-45.73	32.89	-68.29	-13.00	55.29	174	322	Vertical
6	5980.5714	41.77	-44.53	34.09	-63.93	-13.00	50.93	158	310	Vertical

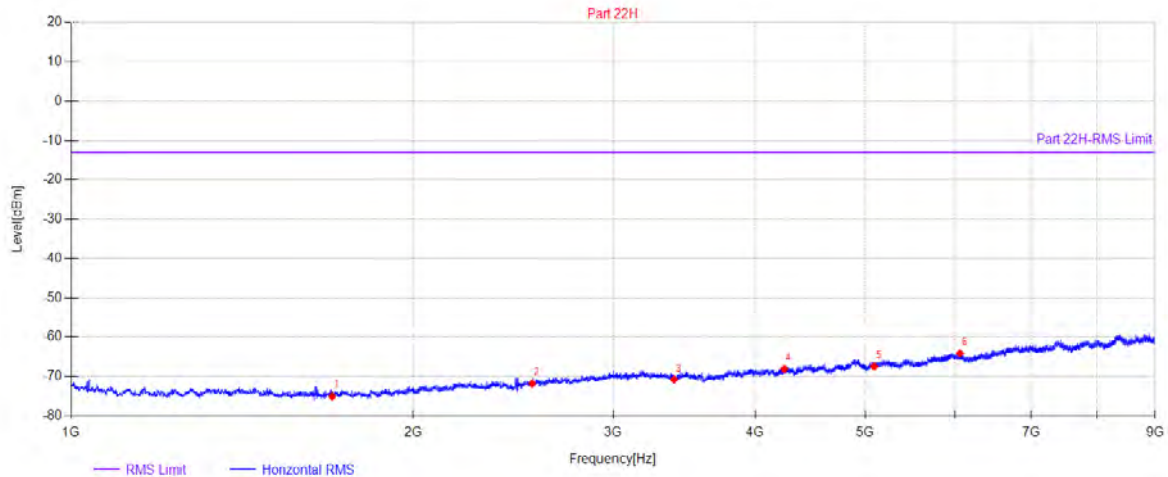


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Test Band = GSM850\_TM1  
 Test Channel = High



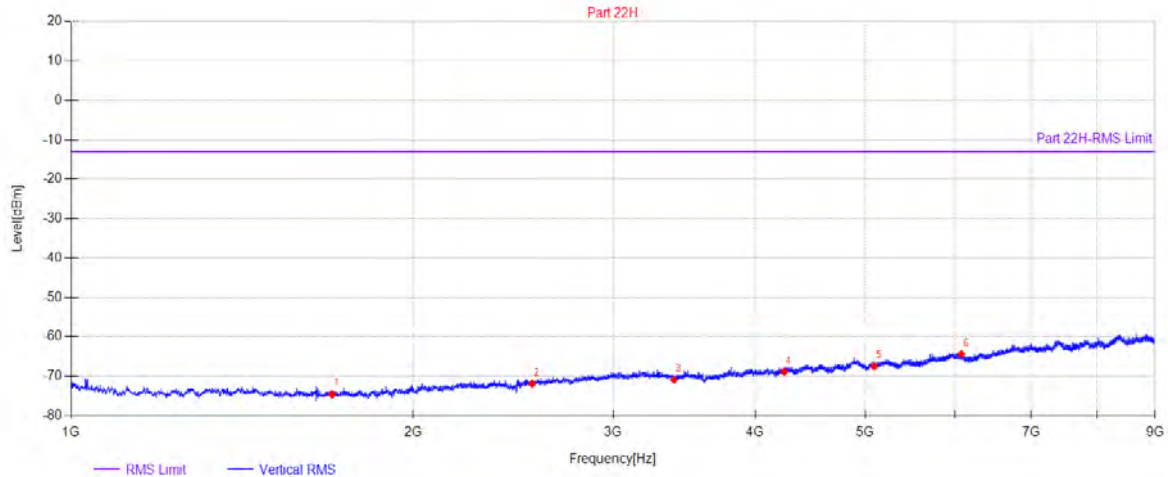
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	43.01	-48.16	25.39	-75.02	-13.00	62.02	248	0	Horizontal
2	2546.4000	42.64	-47.11	27.92	-71.81	-13.00	58.81	155	172	Horizontal
3	3395.2000	41.61	-46.55	29.44	-70.76	-13.00	57.76	169	334	Horizontal
4	4244.0000	41.85	-45.88	31.19	-68.10	-13.00	55.10	211	307	Horizontal
5	5092.8000	40.29	-45.41	32.93	-67.45	-13.00	54.45	140	280	Horizontal
6	6062.8571	41.60	-44.59	34.15	-64.10	-13.00	51.10	153	199	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	43.46	-48.16	25.39	-74.57	-13.00	61.57	277	148	Vertical
2	2546.4000	42.60	-47.11	27.92	-71.85	-13.00	58.85	145	93	Vertical
3	3395.2000	41.50	-46.55	29.44	-70.87	-13.00	57.87	169	148	Vertical
4	4244.0000	41.12	-45.88	31.19	-68.83	-13.00	55.83	199	79	Vertical
5	5092.8000	40.27	-45.41	32.93	-67.47	-13.00	54.47	185	310	Vertical
6	6077.7143	41.37	-44.63	34.16	-64.36	-13.00	51.36	120	108	Vertical

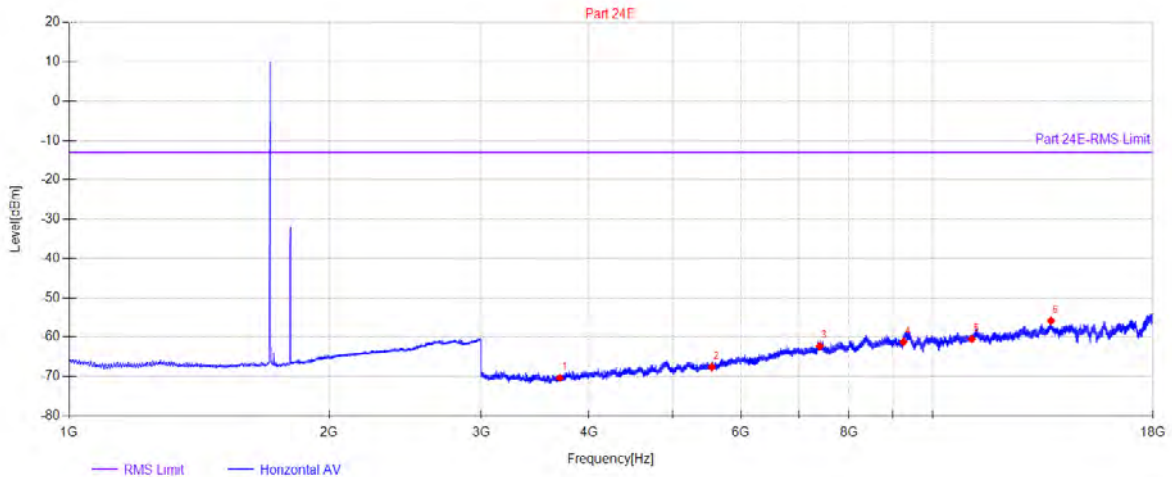


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Test Band = GSM1900\_ TM1  
 Test Channel = Low



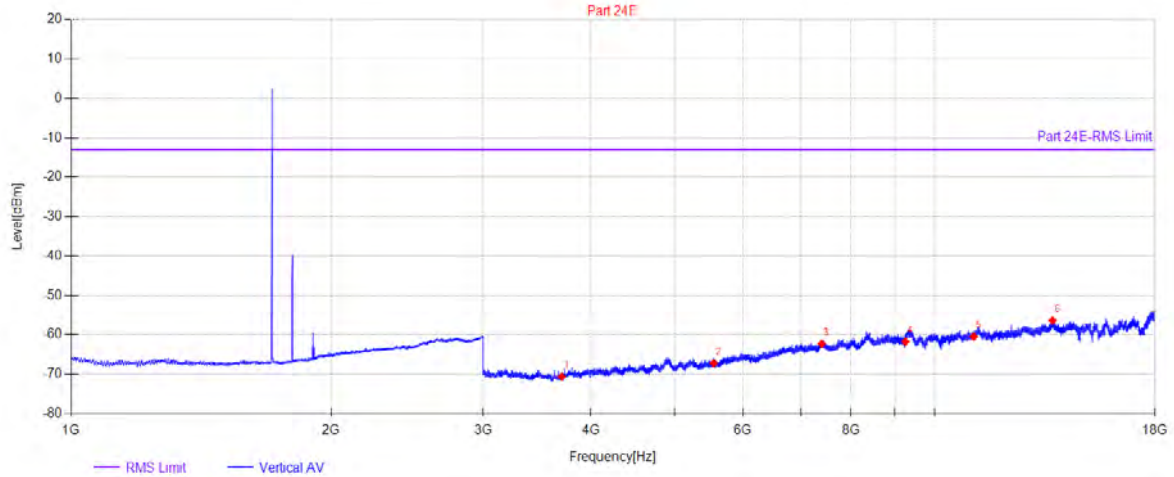
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	40.45	-45.50	29.97	-70.34	-13.00	57.34	241	211	Horizontal
2	5550.6000	39.85	-45.15	32.97	-67.60	-13.00	54.60	136	244	Horizontal
3	7400.8000	39.90	-43.41	36.49	-62.28	-13.00	49.28	251	304	Horizontal
4	9251.0000	35.91	-40.23	38.38	-61.21	-13.00	48.21	168	198	Horizontal
5	11101.2000	33.63	-37.96	39.09	-60.50	-13.00	47.50	179	136	Horizontal
6	13712.25	35.59	-36.19	40.04	-55.82	-13.00	42.82	198	360	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	40.20	-45.50	29.97	-70.59	-13.00	57.59	278	16	Vertical
2	5550.6000	40.26	-45.15	32.97	-67.19	-13.00	54.19	148	276	Vertical
3	7400.8000	39.94	-43.41	36.49	-62.24	-13.00	49.24	129	348	Vertical
4	9251.0000	35.39	-40.23	38.38	-61.73	-13.00	48.73	142	359	Vertical
5	11101.2000	33.67	-37.96	39.09	-60.46	-13.00	47.46	133	231	Vertical
6	13698.75	35.01	-36.16	40.06	-56.35	-13.00	43.35	288	338	Vertical



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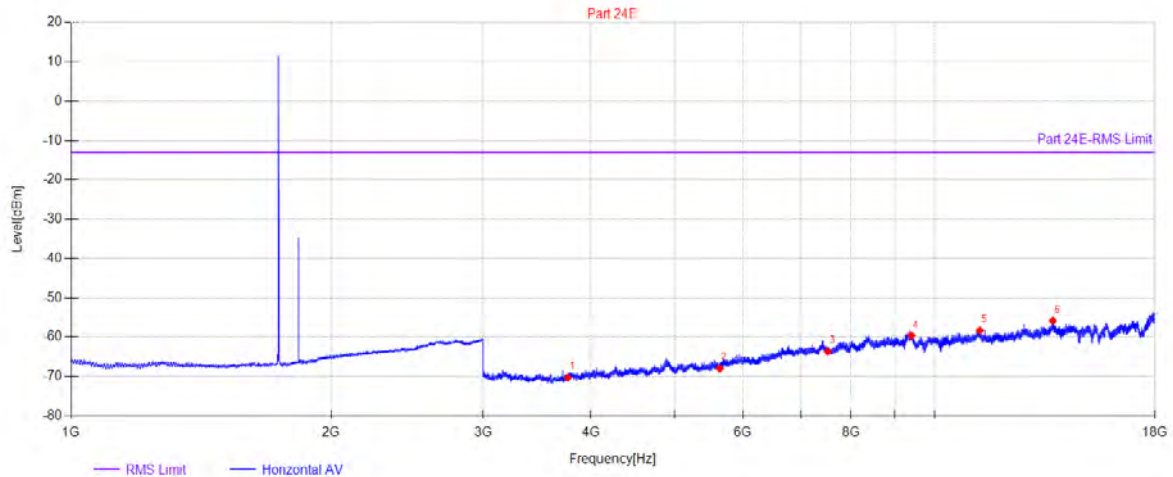
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Test Band = GSM1900\_ TM1  
 Test Channel = Mid



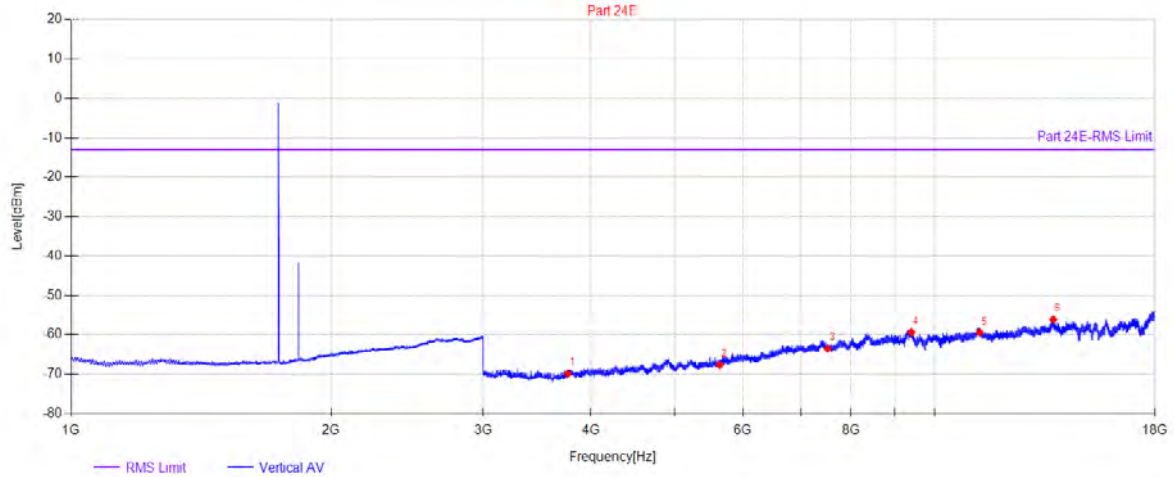
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	40.56	-45.75	30.19	-70.27	-13.00	57.27	255	337	Horizontal
2	5640.0000	39.14	-44.98	33.17	-67.94	-13.00	54.94	142	123	Horizontal
3	7520.0000	38.31	-43.10	36.43	-63.62	-13.00	50.62	189	90	Horizontal
4	9400.0000	36.97	-39.83	38.49	-59.63	-13.00	46.63	145	138	Horizontal
5	11280.0000	35.27	-37.41	39.11	-58.29	-13.00	45.29	126	44	Horizontal
6	13706.25	35.58	-36.18	40.05	-55.81	-13.00	42.81	175	360	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	41.02	-45.75	30.19	-69.81	-13.00	56.81	288	90	Vertical
2	5640.0000	39.47	-44.98	33.17	-67.61	-13.00	54.61	142	346	Vertical
3	7520.0000	38.46	-43.10	36.43	-63.47	-13.00	50.47	163	360	Vertical
4	9400.0000	37.22	-39.83	38.49	-59.38	-13.00	46.38	259	289	Vertical
5	11280.0000	34.13	-37.41	39.11	-59.43	-13.00	46.43	165	289	Vertical
6	13722.75	35.38	-36.21	40.03	-56.06	-13.00	43.06	188	354	Vertical



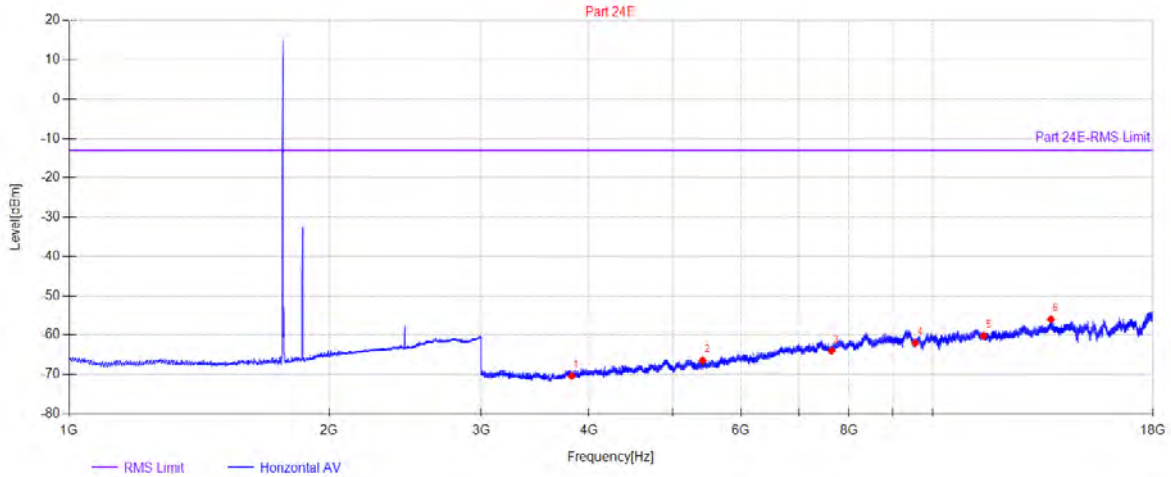
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Test Band = GSM1900\_ TM1  
 Test Channel = High

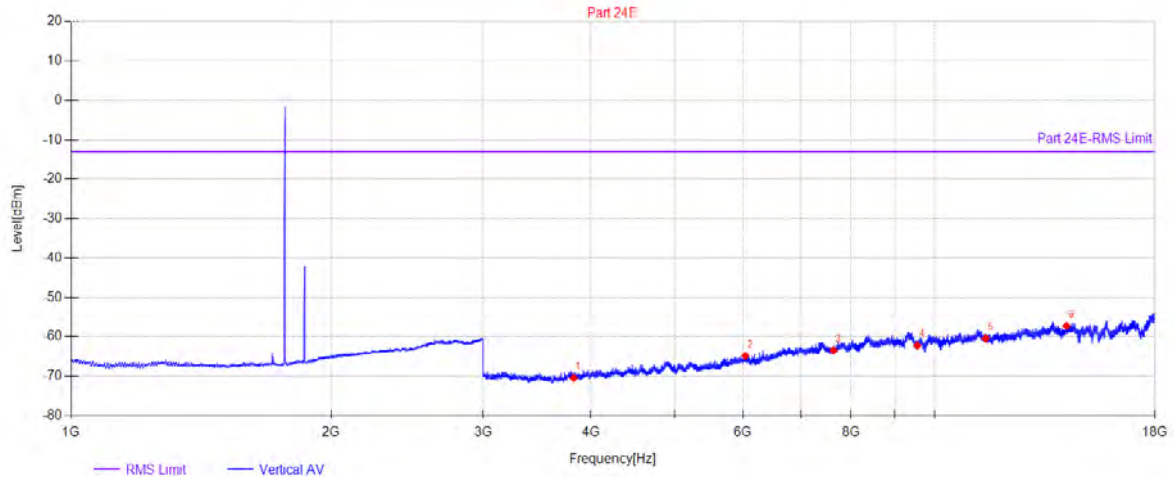


Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	40.49	-45.99	30.38	-70.38	-13.00	57.38	255	347	Horizontal
2	5415	41.29	-45.29	32.82	-66.44	-13.00	53.44	165	168	Horizontal
3	7639.2000	37.85	-43.01	36.47	-63.95	-13.00	50.95	148	168	Horizontal
4	9549.0000	34.77	-39.96	38.45	-61.99	-13.00	48.99	186	214	Horizontal
5	11458.8000	33.36	-37.33	39.04	-60.19	-13.00	47.19	192	4	Horizontal
6	13710	35.46	-36.18	40.05	-55.94	-13.00	42.94	174	290	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	40.45	-45.99	30.38	-70.42	-13.00	57.42	125	255	Vertical
2	6037.5	40.94	-44.69	34.14	-64.86	-13.00	51.86	122	133	Vertical
3	7639.2000	38.38	-43.01	36.47	-63.42	-13.00	50.42	148	306	Vertical
4	9549.0000	34.57	-39.96	38.45	-62.19	-13.00	49.19	195	165	Vertical
5	11458.8000	33.14	-37.33	39.04	-60.41	-13.00	47.41	186	199	Vertical
6	14215.5	33.27	-35.43	40.22	-57.20	-13.00	44.20	215	289	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	-2.40	-0.002869	±2.5	PASS
GSM850	190	VN	NT	0.84	0.001004	±2.5	PASS
GSM850	190	VH	NT	-3.28	-0.003921	±2.5	PASS
EGPRS850	190	VL	NT	-4.38	-0.005235	±2.5	PASS
EGPRS850	190	VN	NT	-4.80	-0.005738	±2.5	PASS
EGPRS850	190	VH	NT	-1.55	-0.001853	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	2.91	0.001548	PASS
GSM1900	661	VN	NT	-0.05	-0.000027	PASS
GSM1900	661	VH	NT	4.54	0.002415	PASS
EGPRS1900	661	VL	NT	-5.73	-0.003048	PASS
EGPRS1900	661	VN	NT	-5.05	-0.002686	PASS
EGPRS1900	661	VH	NT	-1.37	-0.000729	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-6.05	-0.007232	±2.5	PASS
GSM850	190	NV	-20	-9.57	-0.011439	±2.5	PASS
GSM850	190	NV	-10	-12.40	-0.014822	±2.5	PASS
GSM850	190	NV	0	-13.98	-0.016710	±2.5	PASS
GSM850	190	NV	10	-13.35	-0.015957	±2.5	PASS
GSM850	190	NV	20	-14.53	-0.017368	±2.5	PASS
GSM850	190	NV	30	-12.04	-0.014392	±2.5	PASS
GSM850	190	NV	40	-12.45	-0.014882	±2.5	PASS
GSM850	190	NV	50	-12.88	-0.015396	±2.5	PASS
EGPRS850	190	NV	-30	-6.19	-0.007399	±2.5	PASS
EGPRS850	190	NV	-20	-3.35	-0.004004	±2.5	PASS
EGPRS850	190	NV	-10	-3.22	-0.003849	±2.5	PASS
EGPRS850	190	NV	0	-7.45	-0.008905	±2.5	PASS
EGPRS850	190	NV	10	-4.25	-0.005080	±2.5	PASS
EGPRS850	190	NV	20	-4.34	-0.005188	±2.5	PASS
EGPRS850	190	NV	30	-3.51	-0.004196	±2.5	PASS
EGPRS850	190	NV	40	-1.22	-0.001458	±2.5	PASS
EGPRS850	190	NV	50	-4.35	-0.005200	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	-0.86	-0.000457	PASS
GSM1900	661	NV	-20	0.29	0.000154	PASS
GSM1900	661	NV	-10	4.49	0.002388	PASS
GSM1900	661	NV	0	2.43	0.001293	PASS
GSM1900	661	NV	10	1.96	0.001043	PASS
GSM1900	661	NV	20	-0.43	-0.000229	PASS
GSM1900	661	NV	30	-1.26	-0.000670	PASS
GSM1900	661	NV	40	-2.75	-0.001463	PASS
GSM1900	661	NV	50	-0.43	-0.000229	PASS
EGPRS1900	661	NV	-30	0.46	0.000245	PASS
EGPRS1900	661	NV	-20	-1.92	-0.001021	PASS
EGPRS1900	661	NV	-10	-2.75	-0.001463	PASS
EGPRS1900	661	NV	0	0.50	0.000266	PASS
EGPRS1900	661	NV	10	-0.90	-0.000479	PASS
EGPRS1900	661	NV	20	-4.71	-0.002505	PASS
EGPRS1900	661	NV	30	-2.65	-0.001410	PASS
EGPRS1900	661	NV	40	-6.50	-0.003457	PASS
EGPRS1900	661	NV	50	-5.50	-0.002926	PASS

---End of Attachment---



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