



Report No.: HEWM2202000026RG01

Rev.: 01

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Appendix



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	33.72	26.72	38.5	PASS
GSM850	190	33.78	26.78	38.5	PASS
GSM850	251	33.54	26.54	38.5	PASS

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	28.84	26.14	33	PASS
GSM1900	661	28.81	26.11	33	PASS
GSM1900	810	28.96	26.26	33	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	28.98	21.98	38.5	PASS
EGPRS850	128	2	26.92	19.92	38.5	PASS
EGPRS850	128	3	24.79	17.79	38.5	PASS
EGPRS850	128	4	23.65	16.65	38.5	PASS
EGPRS850	190	1	28.72	21.72	38.5	PASS
EGPRS850	190	2	26.7	19.70	38.5	PASS
EGPRS850	190	3	24.63	17.63	38.5	PASS
EGPRS850	190	4	23.46	16.46	38.5	PASS
EGPRS850	251	1	28.4	21.40	38.5	PASS
EGPRS850	251	2	26.42	19.42	38.5	PASS
EGPRS850	251	3	24.35	17.35	38.5	PASS
EGPRS850	251	4	23.21	16.21	38.5	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	28.30	25.60	33	PASS
EGPRS1900	512	2	25.22	22.52	33	PASS
EGPRS1900	512	3	24.12	21.42	33	PASS
EGPRS1900	512	4	23.52	20.82	33	PASS
EGPRS1900	661	1	28.67	25.97	33	PASS
EGPRS1900	661	2	25.53	22.83	33	PASS
EGPRS1900	661	3	24.68	21.98	33	PASS
EGPRS1900	661	4	23.32	20.62	33	PASS
EGPRS1900	810	1	28.31	25.61	33	PASS
EGPRS1900	810	2	25.56	22.86	33	PASS
EGPRS1900	810	3	24.45	21.75	33	PASS
EGPRS1900	810	4	23.02	20.32	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	5.84	13	PASS
GSM850	190	5.76	13	PASS
GSM850	251	6.12	13	PASS
EGPRS850	128	11.96	13	PASS
EGPRS850	190	11.96	13	PASS
EGPRS850	251	12.24	13	PASS
GSM1900	512	9.52	13	PASS
GSM1900	661	9.60	13	PASS
GSM1900	810	9.60	13	PASS
EGPRS1900	512	12.58	13	PASS
EGPRS1900	661	12.80	13	PASS
EGPRS1900	810	12.54	13	PASS



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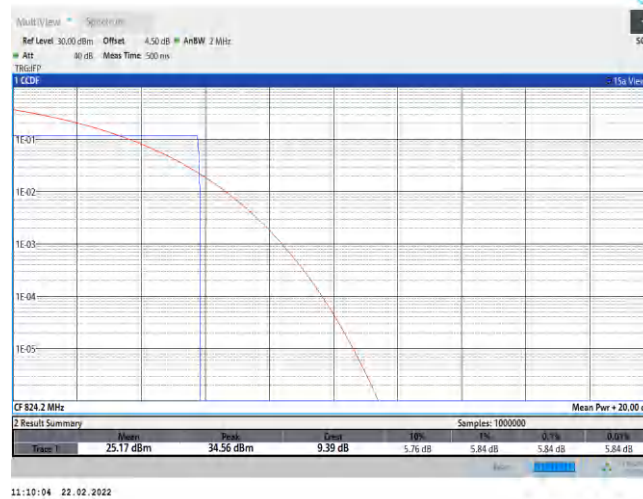
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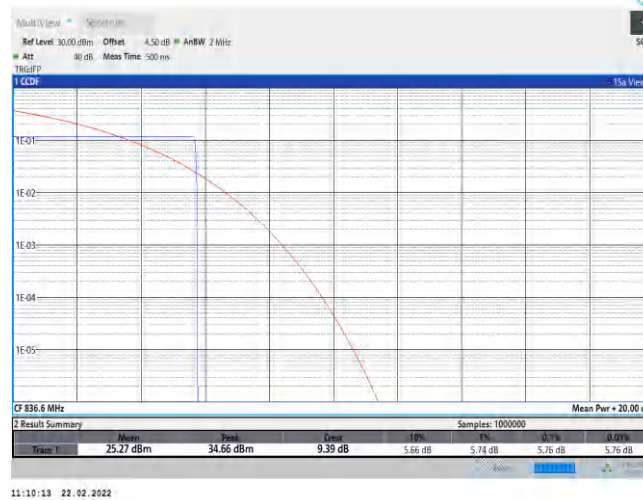
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Test Graphs

GSM850-128-3



GSM850-190-3



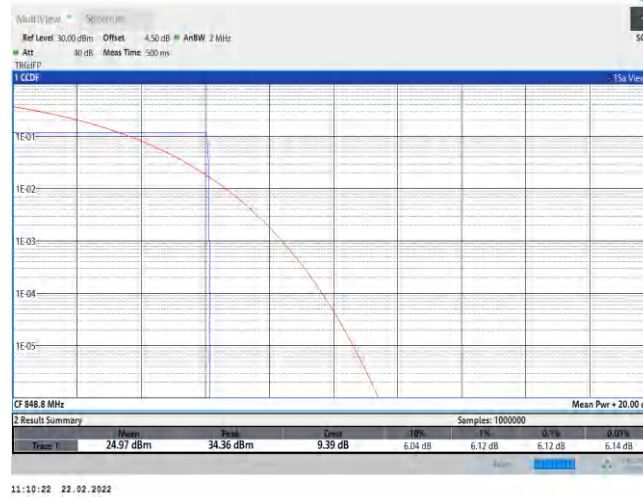
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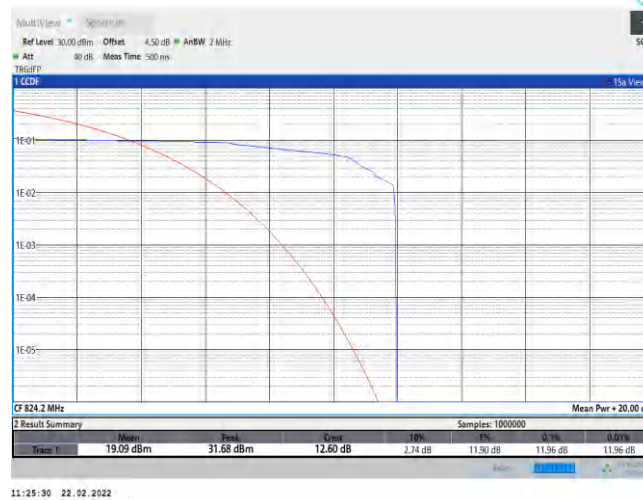
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GSM850-251-3



EGPRS850-128-8



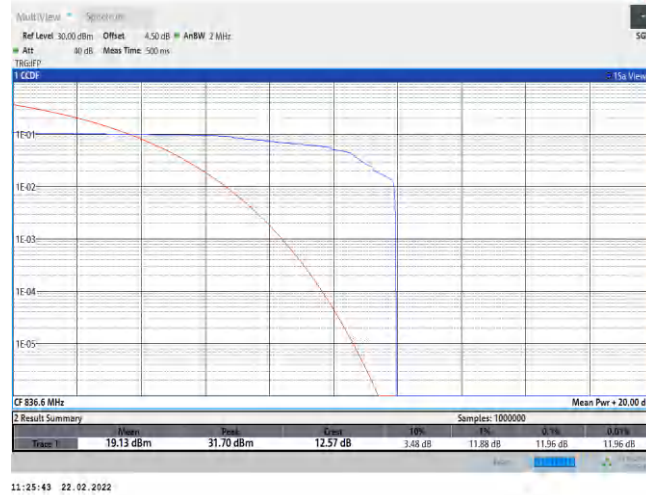
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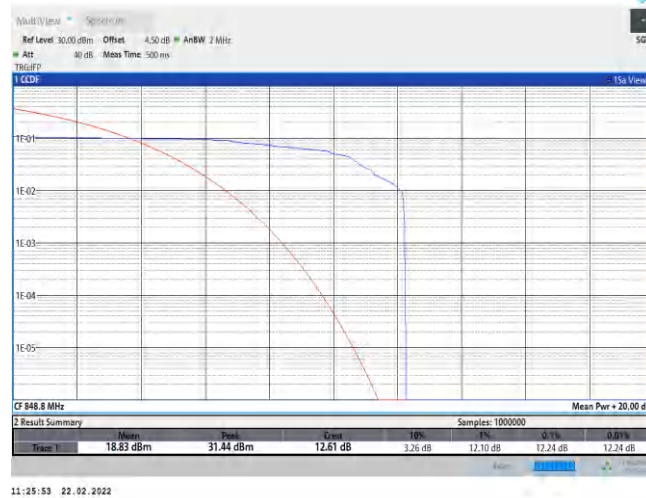
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EGPRS850-190-8



EGPRS850-251-8



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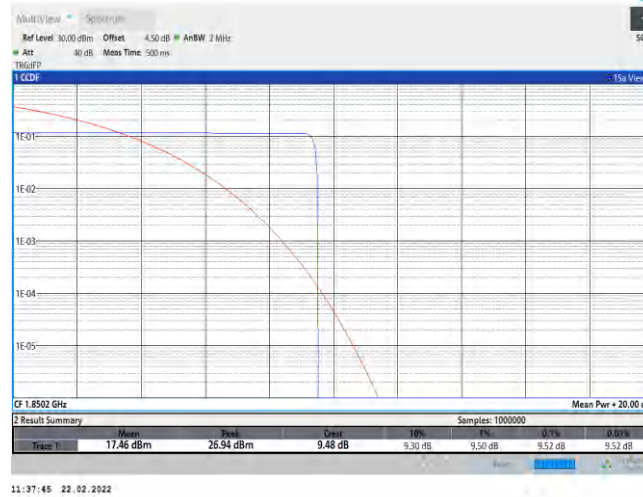
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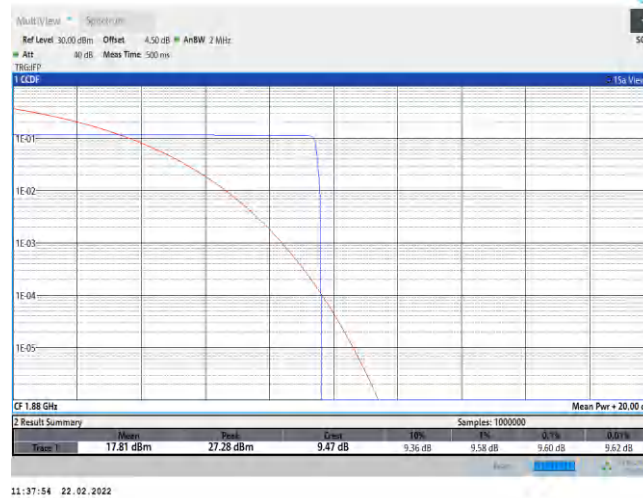
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GSM1900-512-0



GSM1900-661-0



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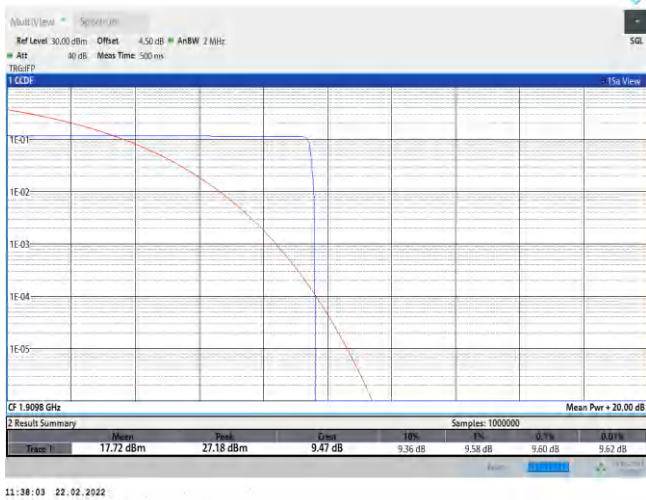
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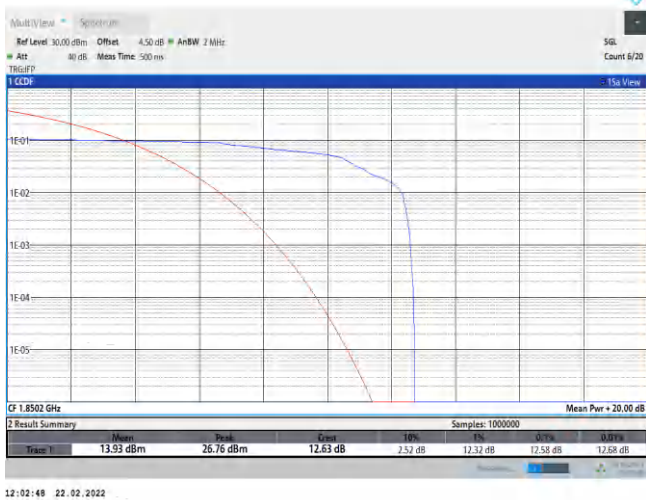


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GSM1900-810-0



EGPRS1900-512-2



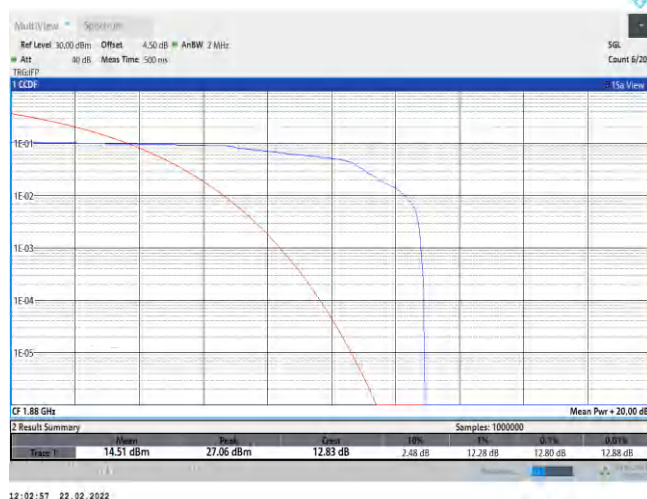
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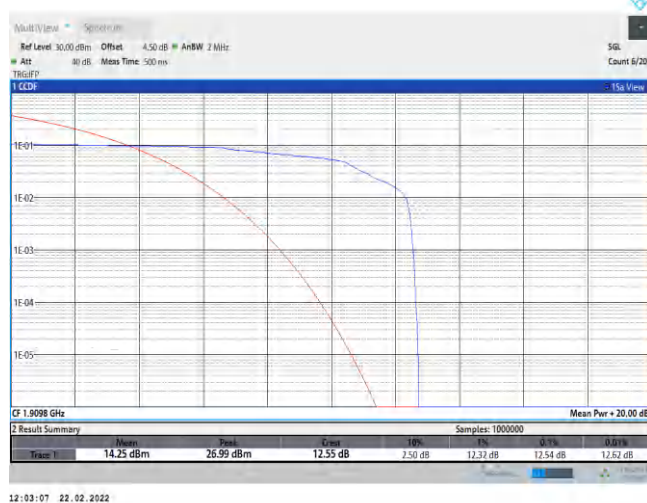
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EGPRS1900-661-2



EGPRS1900-810-2



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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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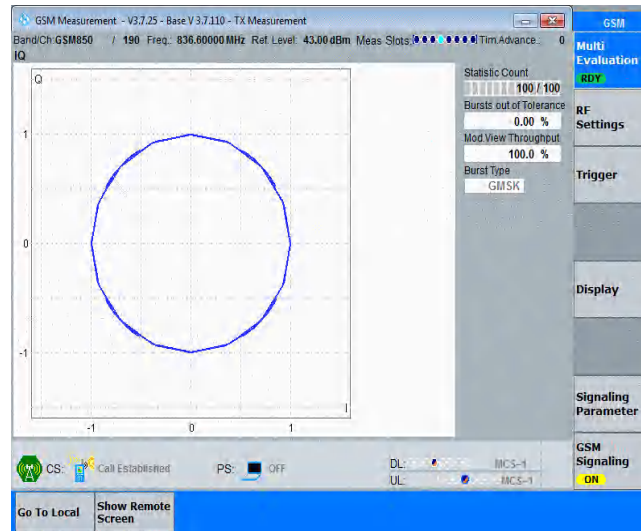
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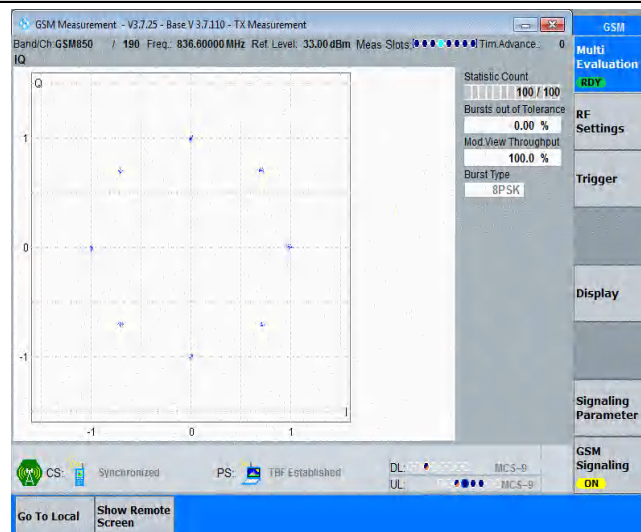
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Test Graphs

GSM850-190-3



EGPRS850-190-8



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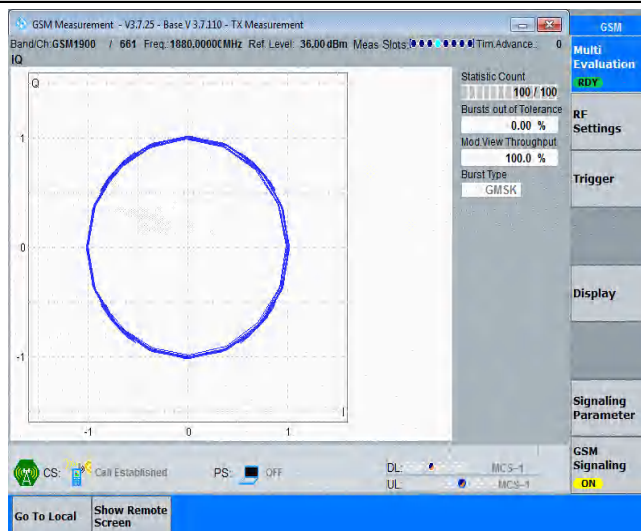
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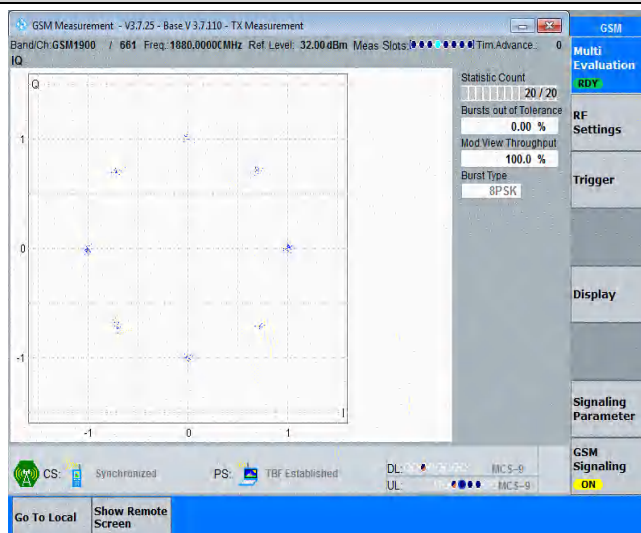
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GSM1900-661-0



EGPRS1900-661-2



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.246	0.32	---	PASS
EGPRS850	128	0.246	0.32	---	PASS
EGPRS850	190	0.245	0.32	---	PASS
EGPRS850	251	0.243	0.32	---	PASS
GSM1900	512	0.246	0.32	---	PASS
GSM1900	661	0.246	0.31	---	PASS
GSM1900	810	0.247	0.32	---	PASS
EGPRS1900	512	0.245	0.31	---	PASS
EGPRS1900	661	0.245	0.32	---	PASS
EGPRS1900	810	0.244	0.32	---	PASS



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Test Graphs

GSM850-128-3-0.32



GSM850-190-3-0.32



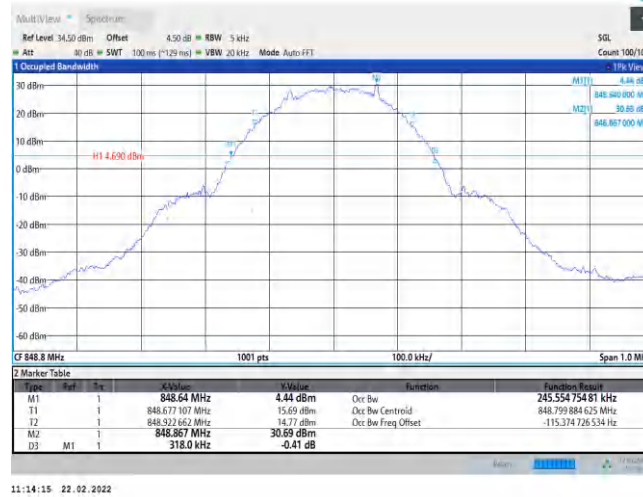
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GSM850-251-3-0.32



EGPRS850-128-8-0.32



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Rev.: 01

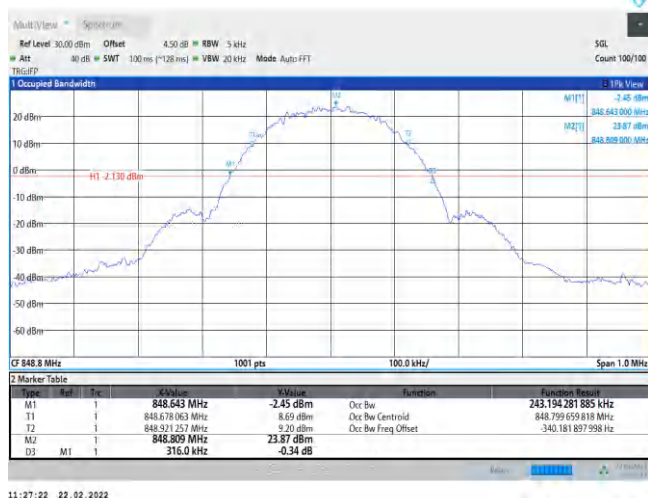
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EGPRS850-190-8-0.32



11:27:09 22.02.2022

EGPRS850-251-8-0.32



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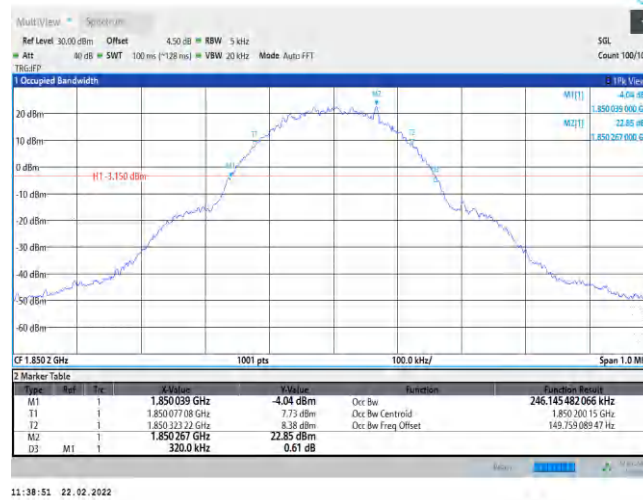
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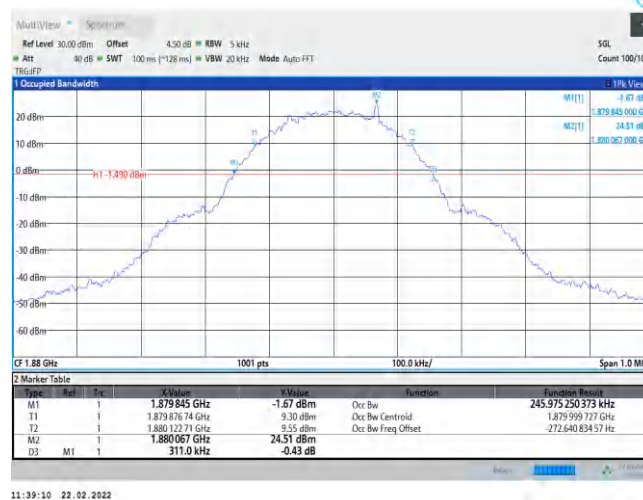
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GSM1900-512-0-0.32



GSM1900-661-0-0.31



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GSM1900-810-0-0.32



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EGPRS1900-512-2-0.31



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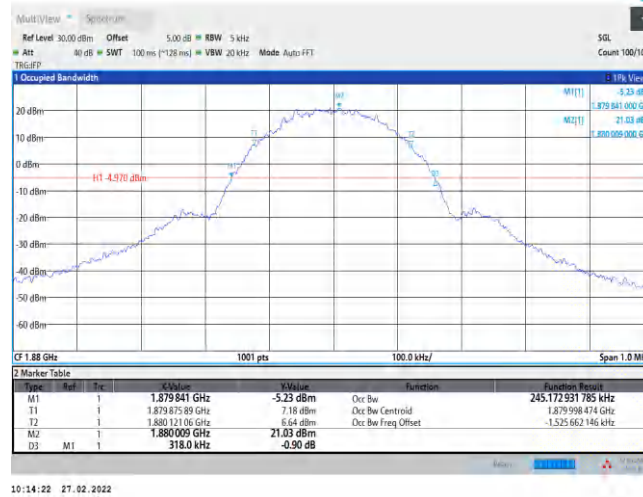
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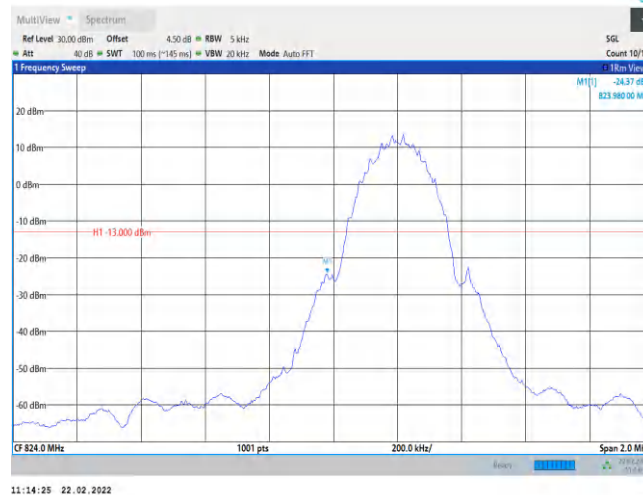
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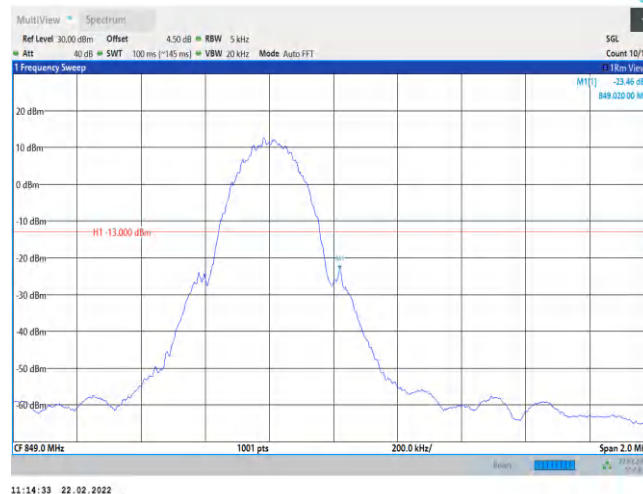
Band Edge

Test Graphs

GSM850-128-3



GSM850-251-3



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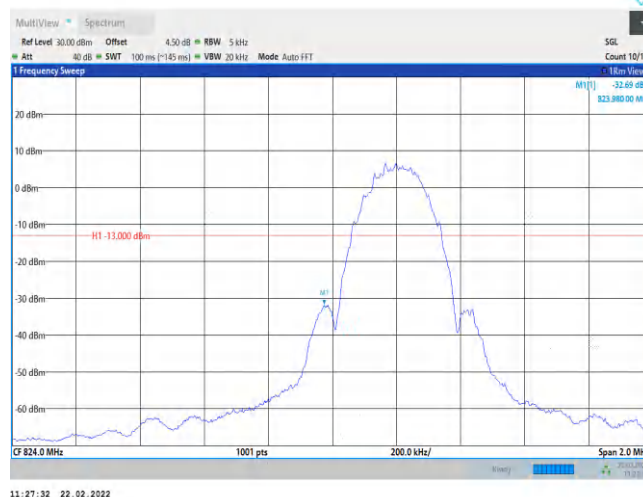
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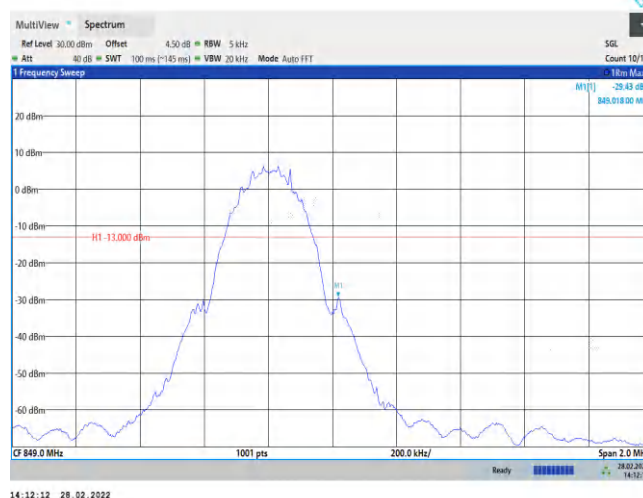
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EGPRS850-128-8



EGPRS850-251-8



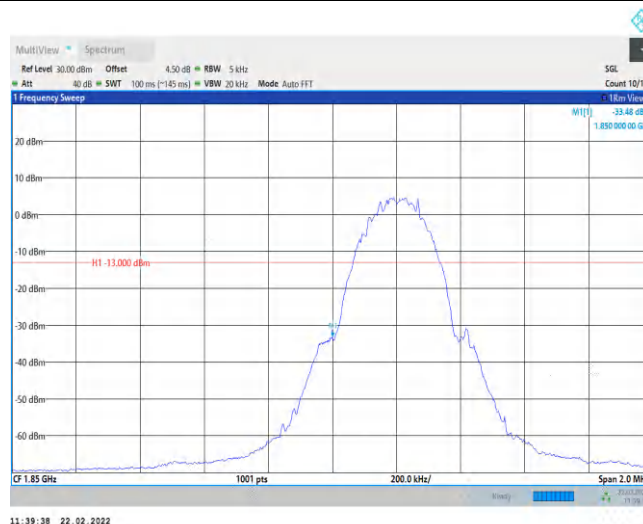
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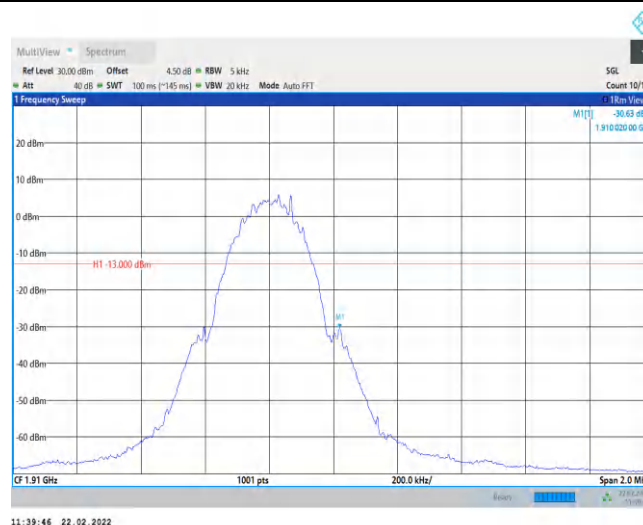
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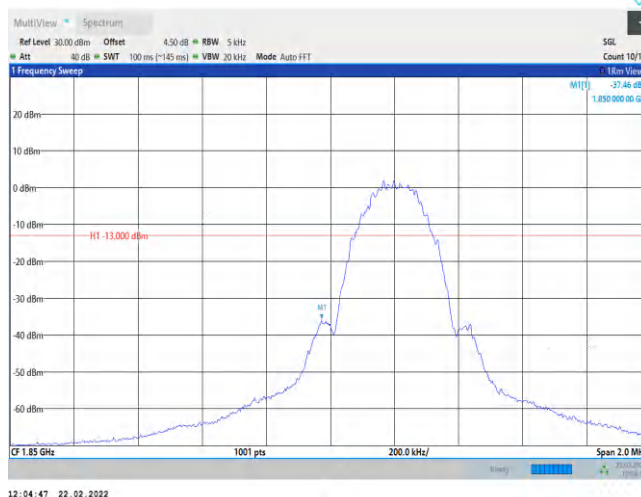


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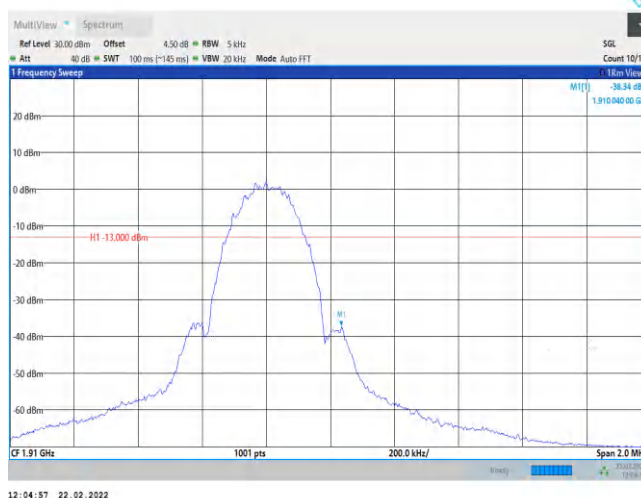
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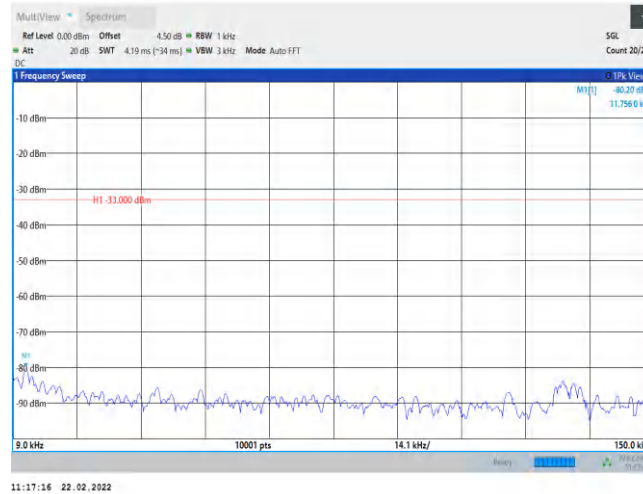
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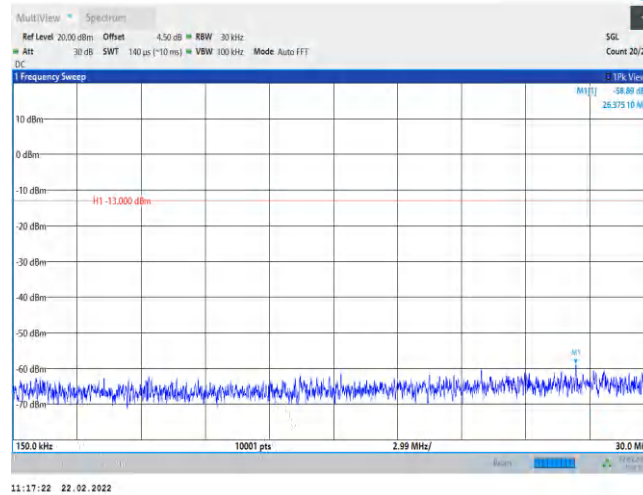
Conducted Spurious Emission

Test Graphs

GSM850-128-3-0.009~0.15MHz



GSM850-128-3-0.15~30MHz



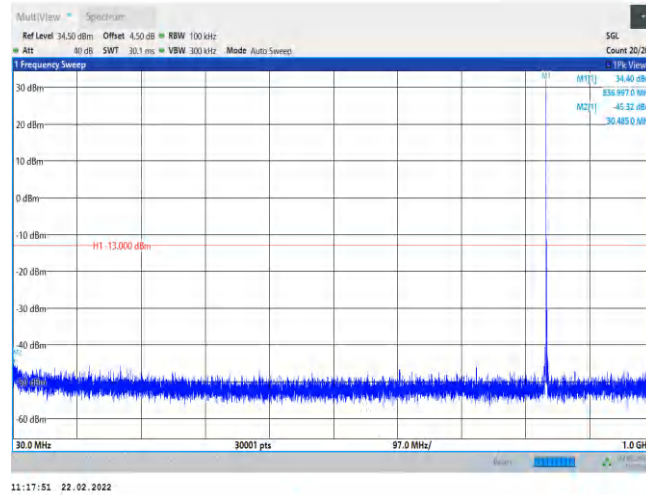
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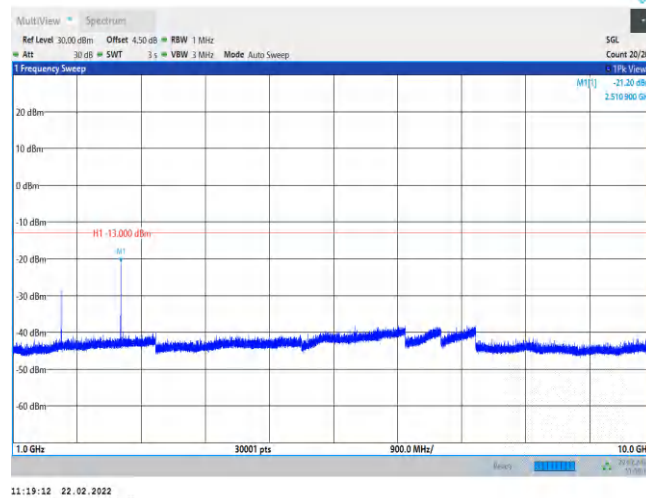
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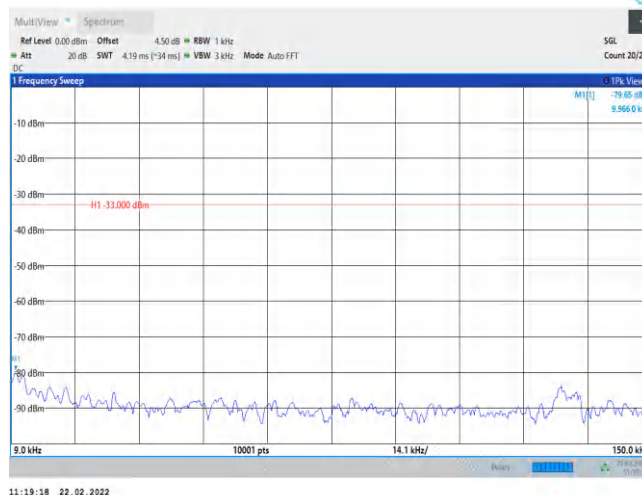
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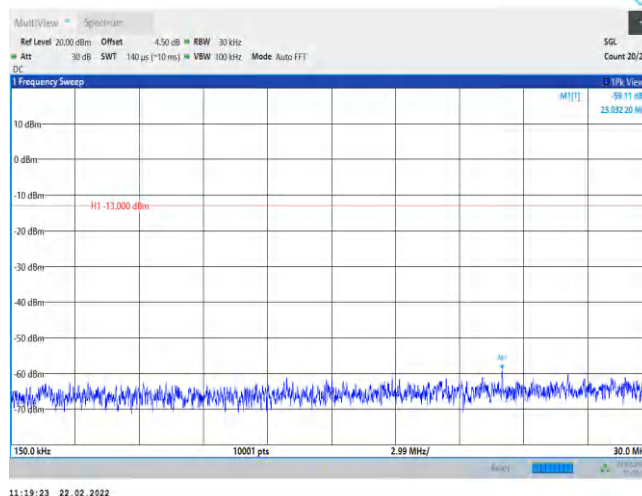
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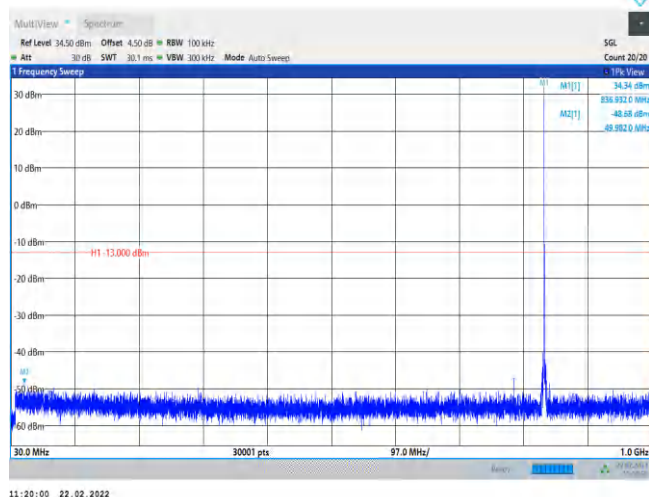
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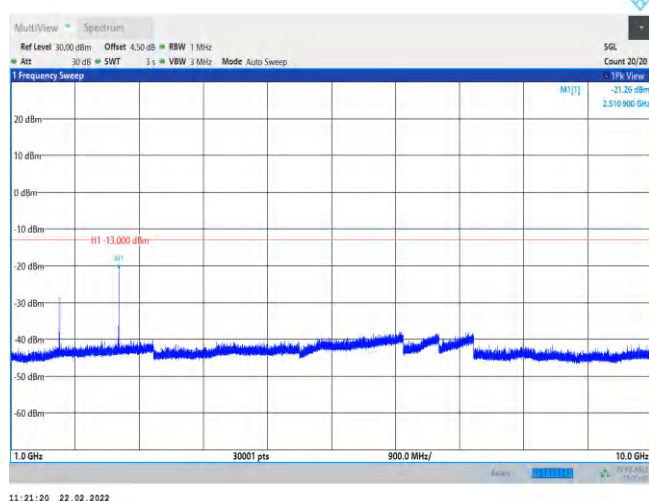
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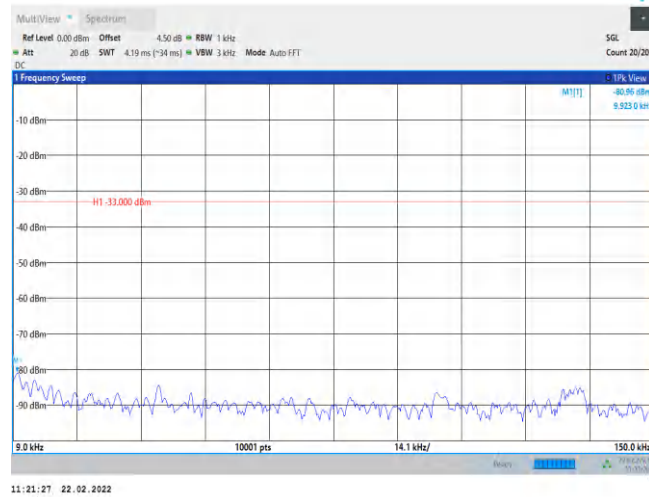
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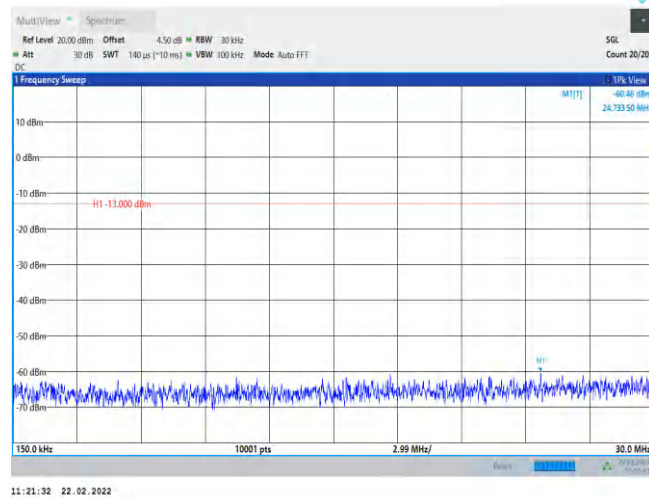
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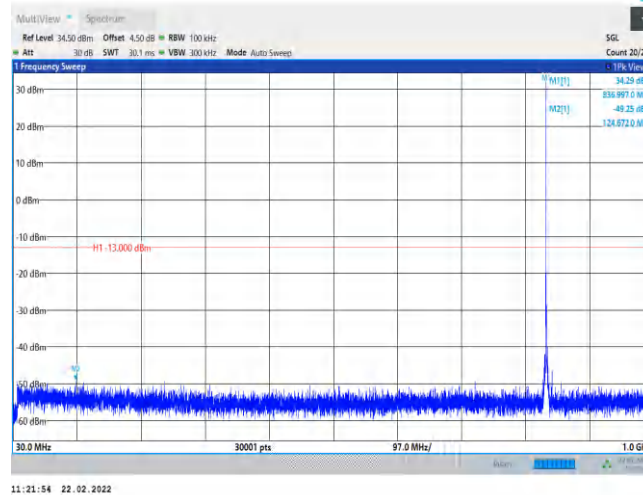
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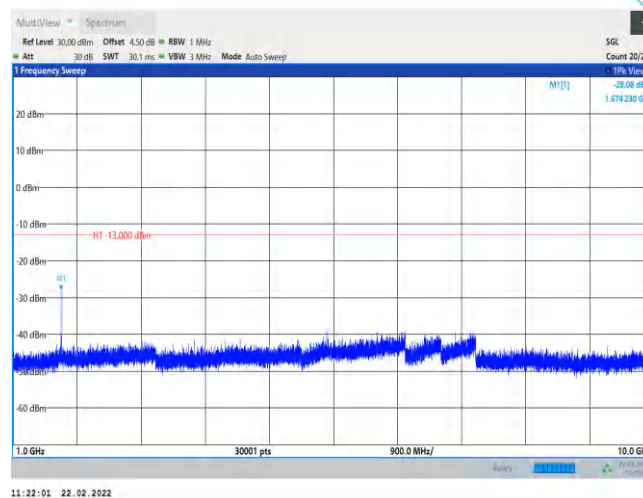
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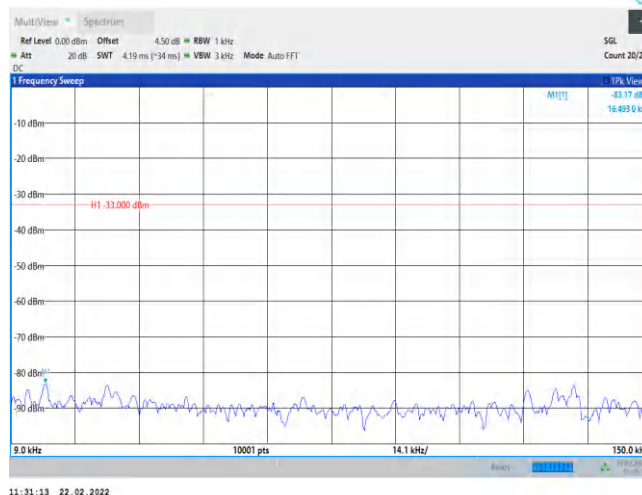
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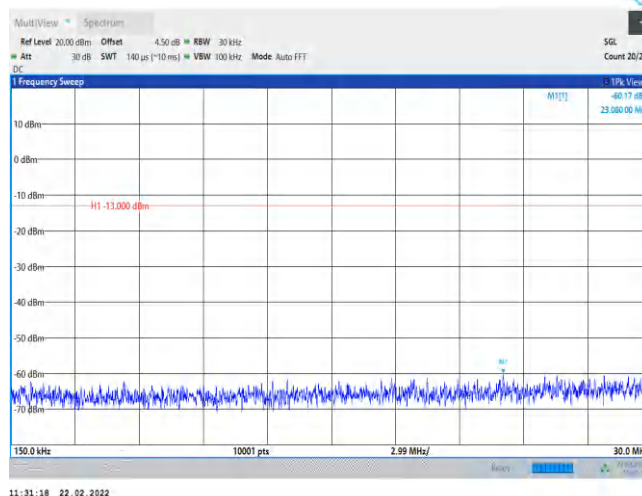
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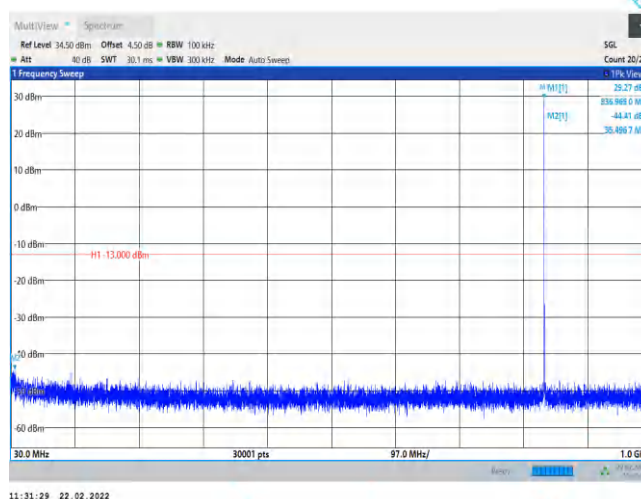
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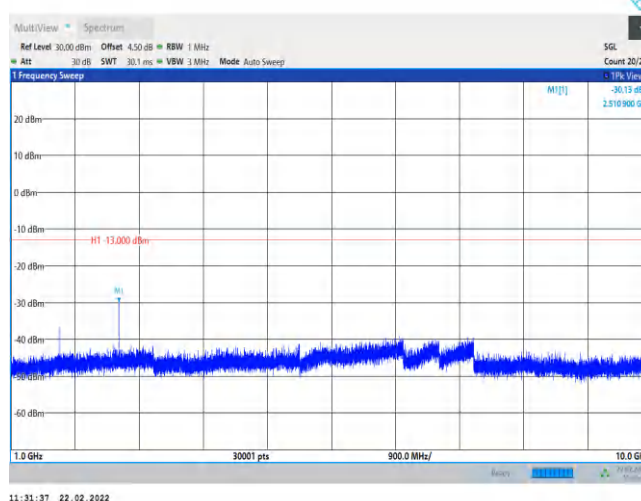
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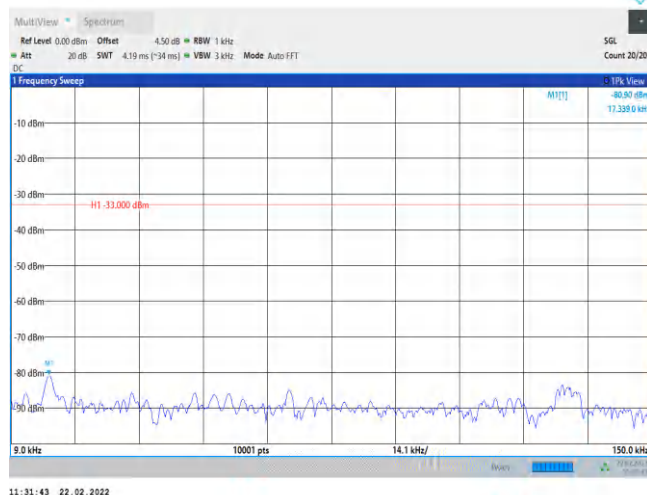
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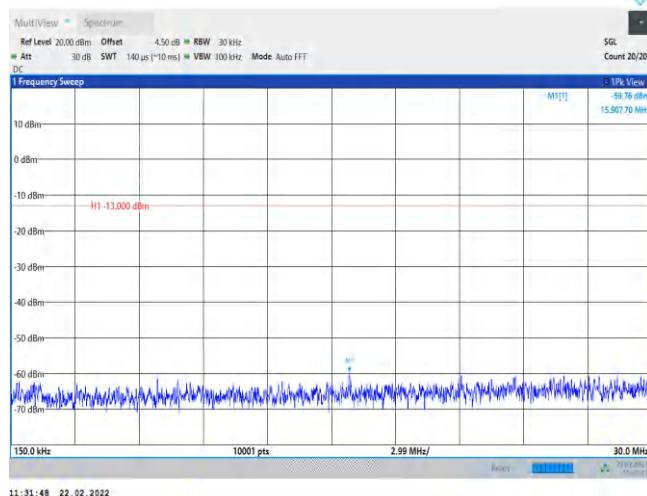
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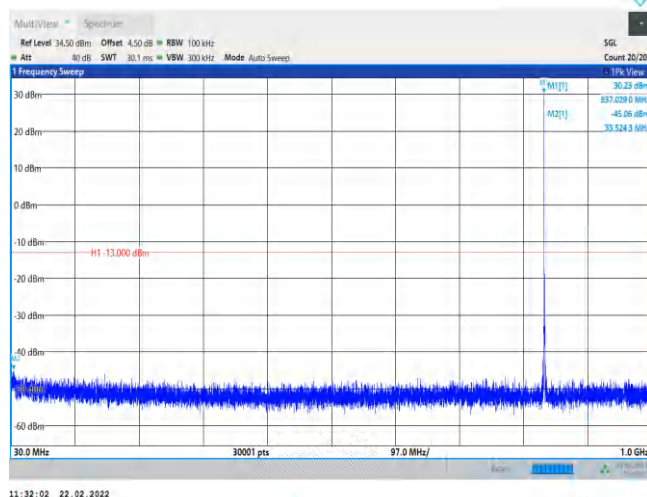
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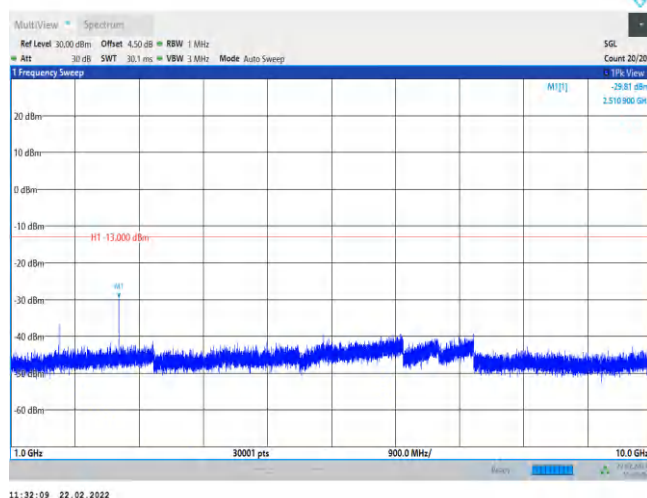
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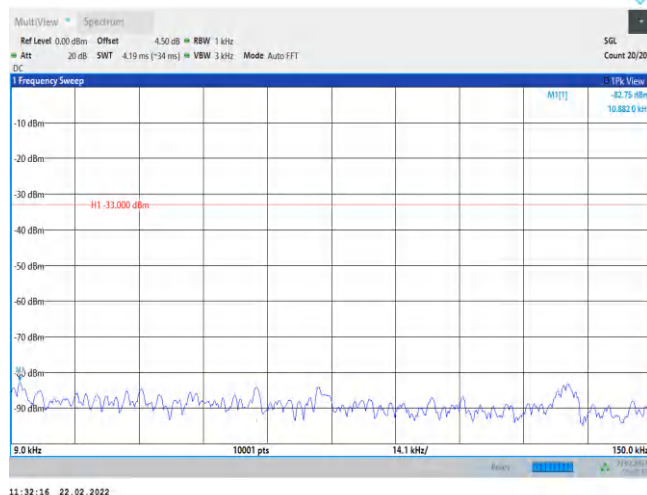
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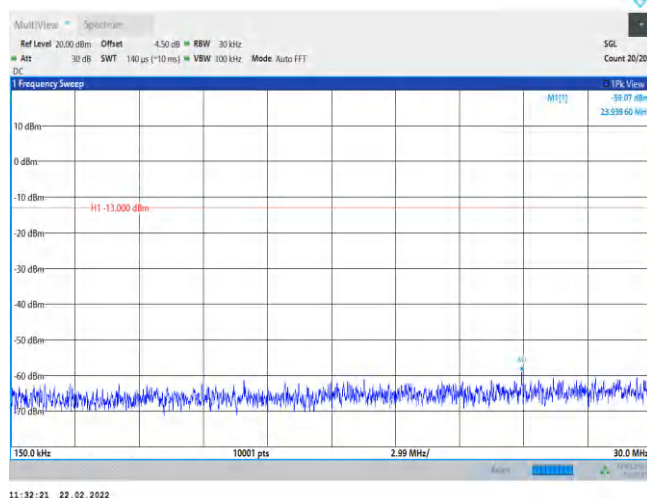
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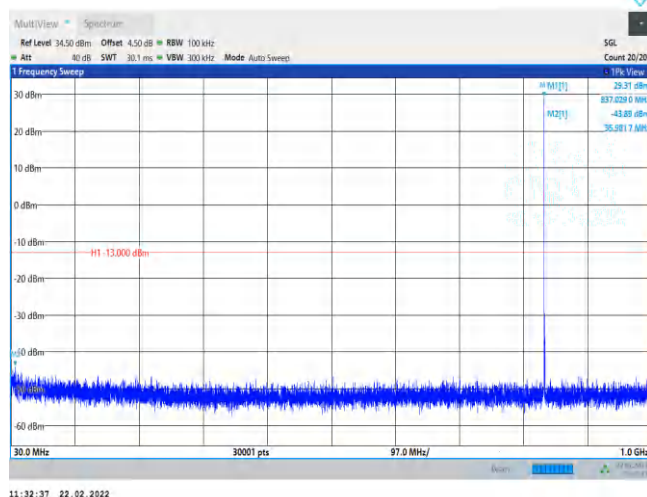
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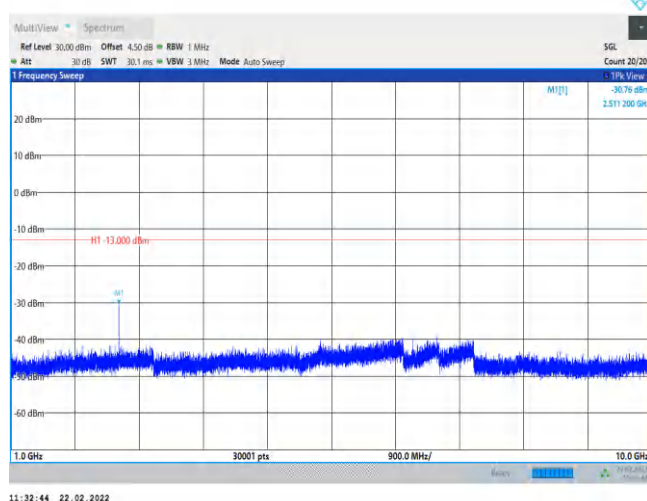
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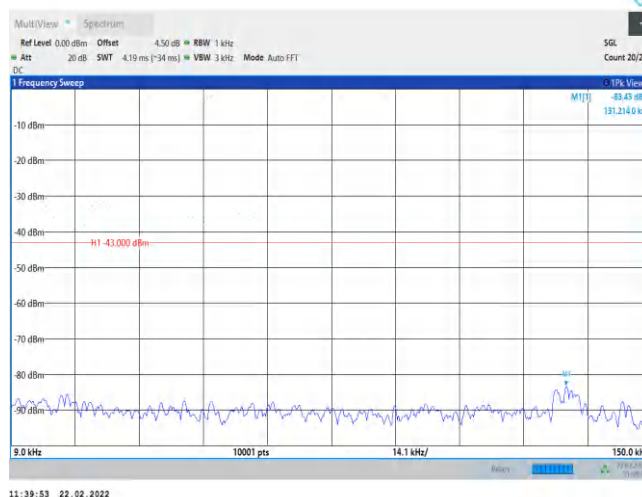
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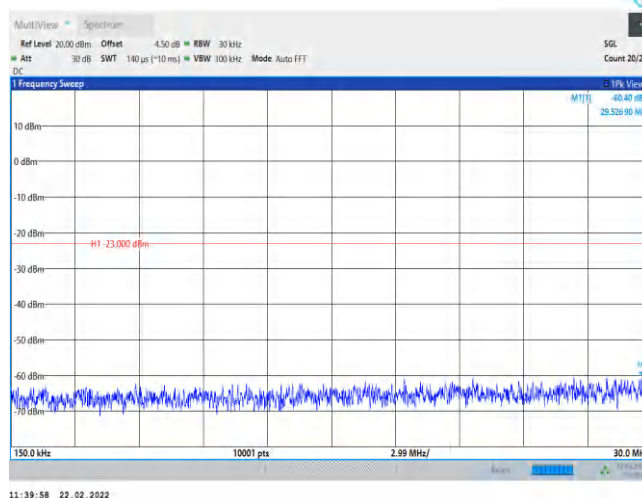
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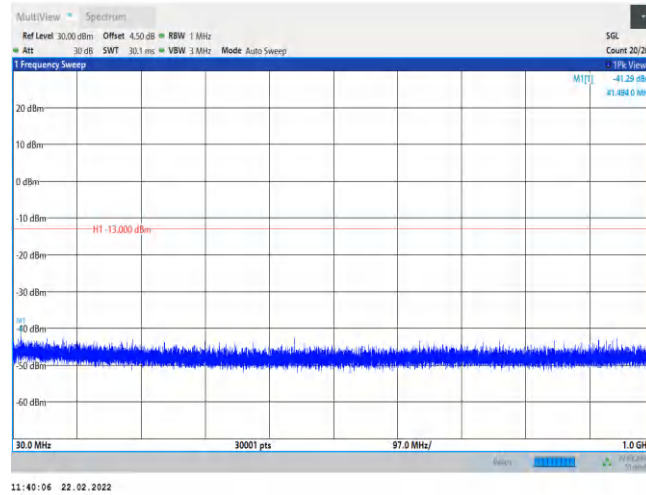
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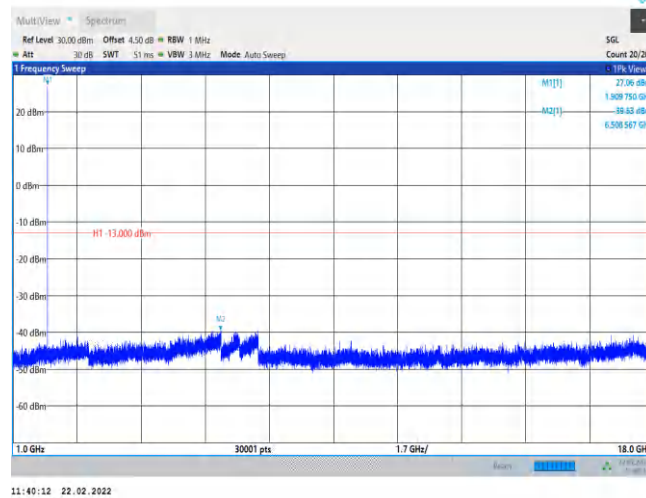
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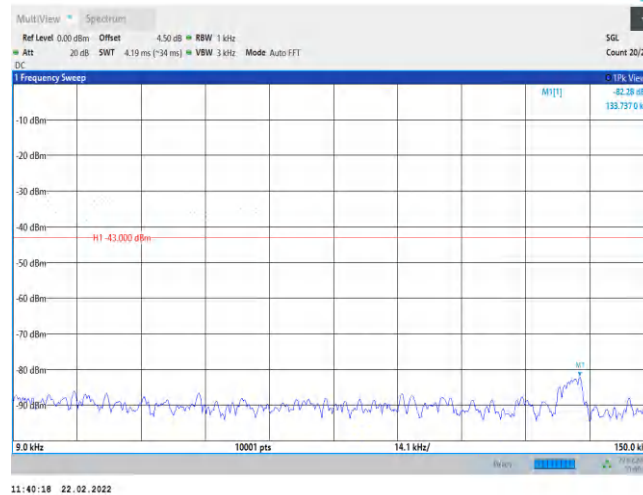
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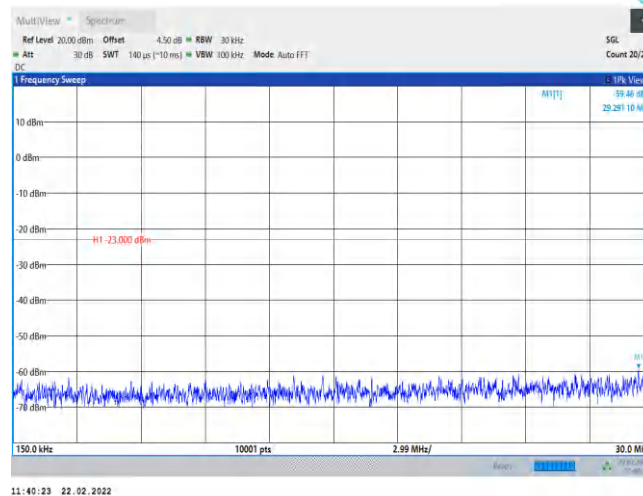
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GSM1900-661-0-0.009~0.15MHz



GSM1900-661-0-0.15~30MHz



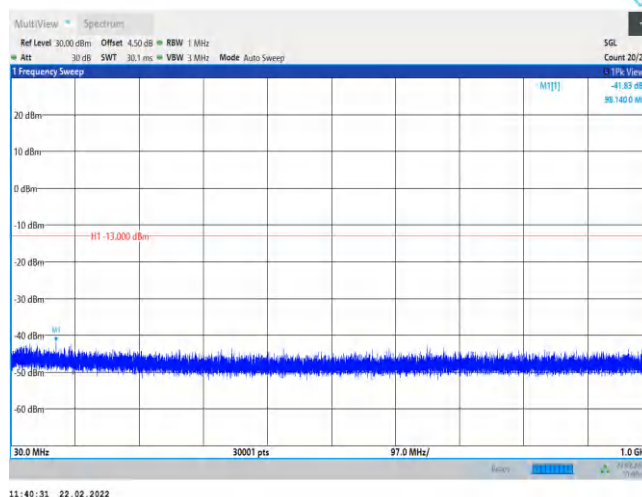
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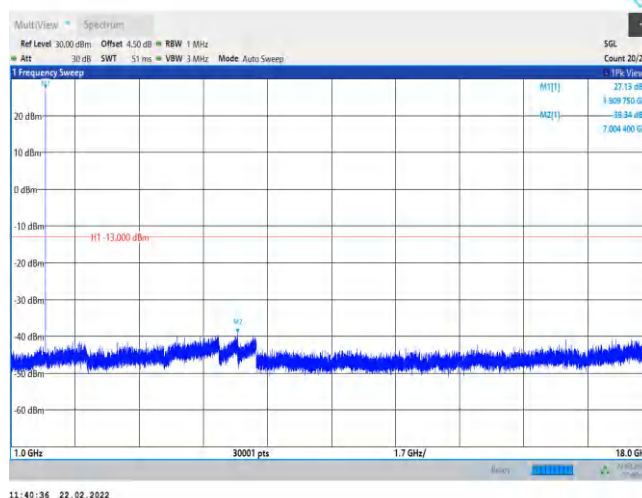
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GSM1900-661-0-30~1000MHz



GSM1900-661-0-1000~18000MHz

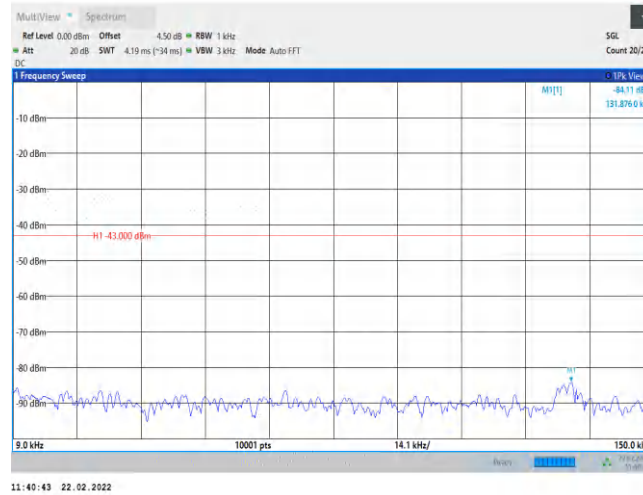


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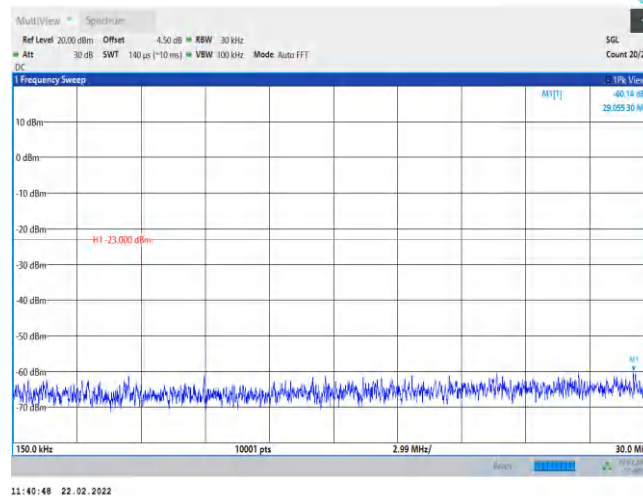
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GSM1900-810-0-0.009~0.15MHz



GSM1900-810-0-0.15~30MHz



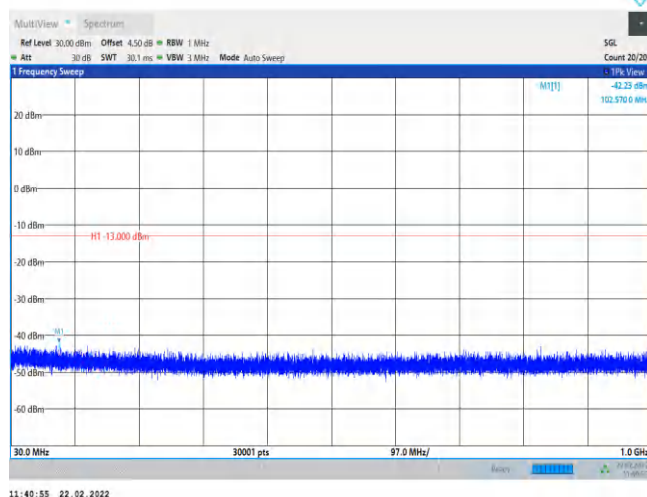
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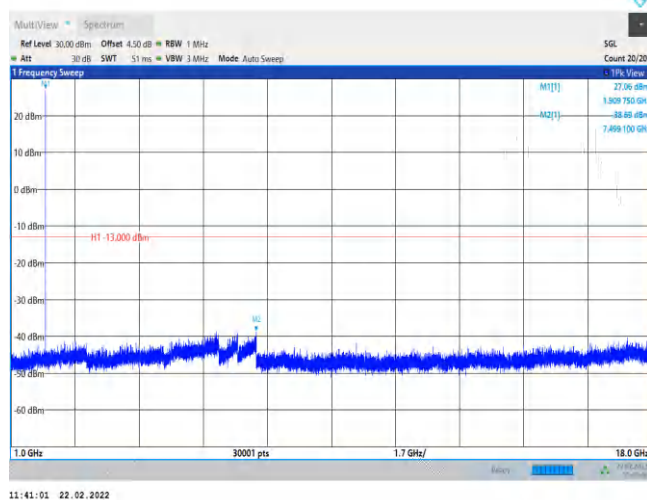
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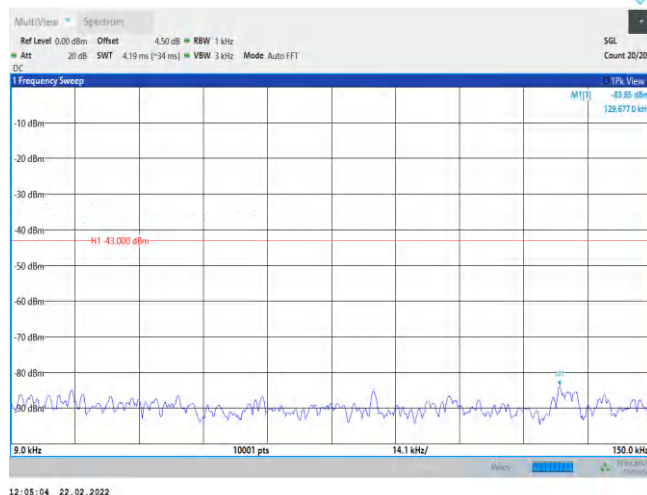
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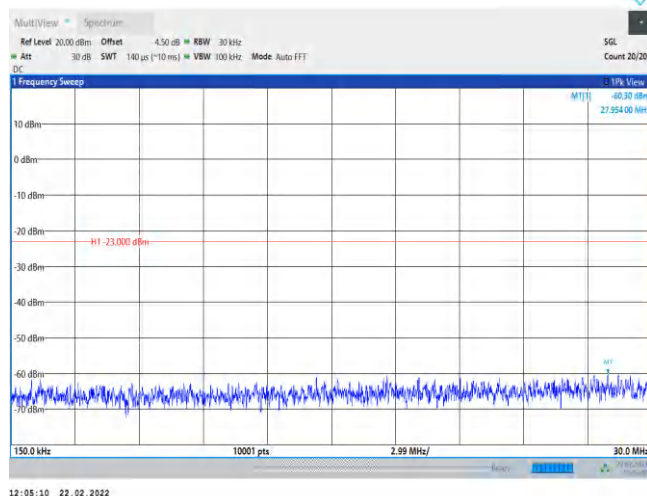
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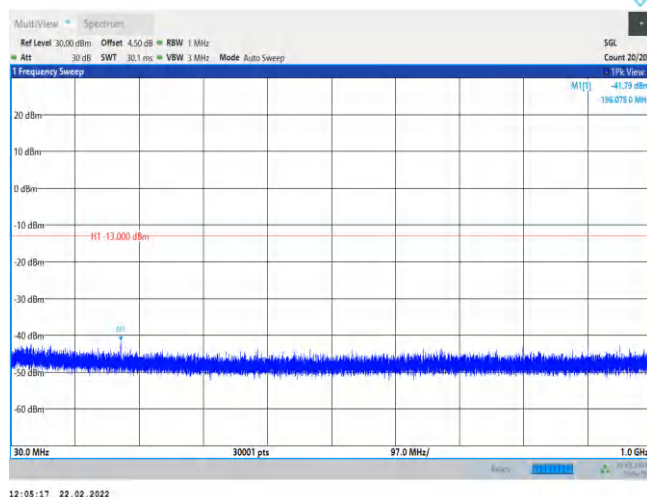
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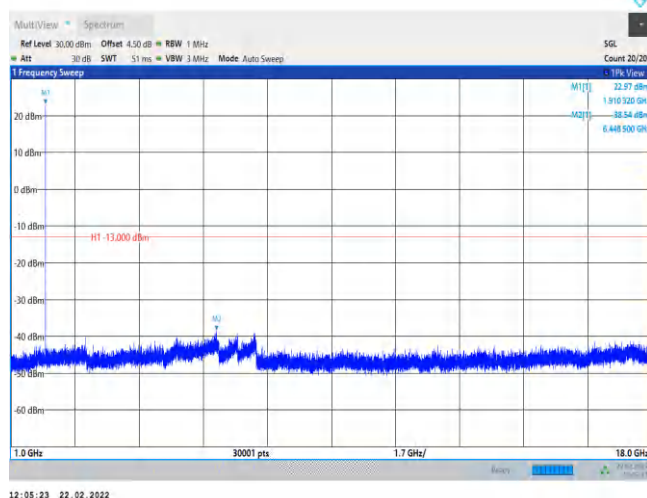
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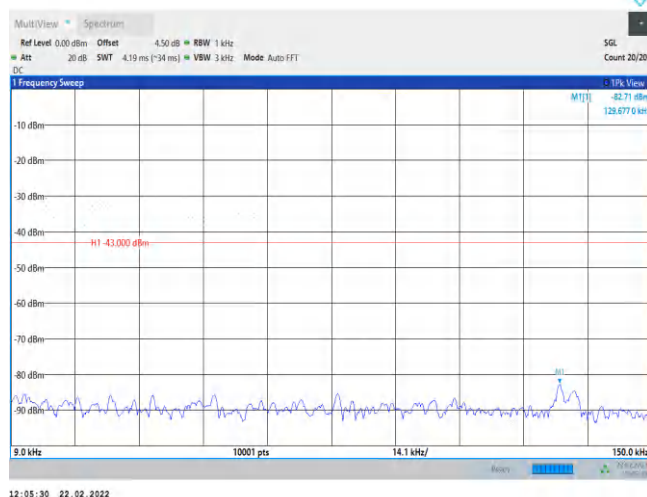
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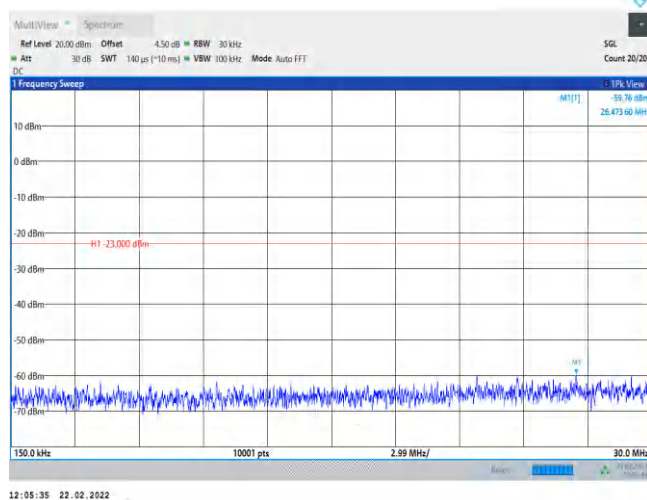
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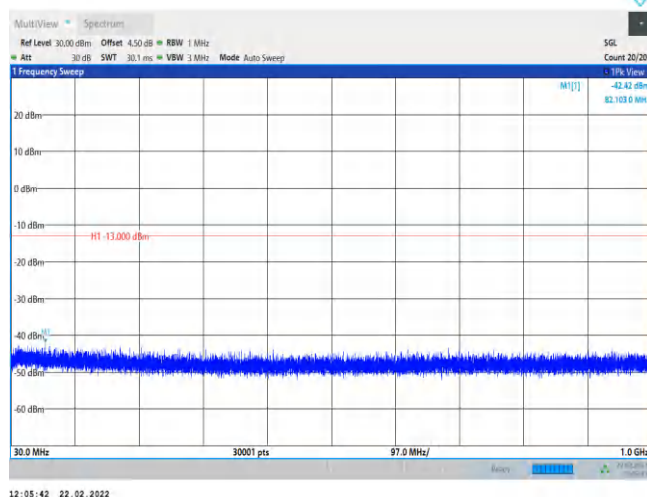


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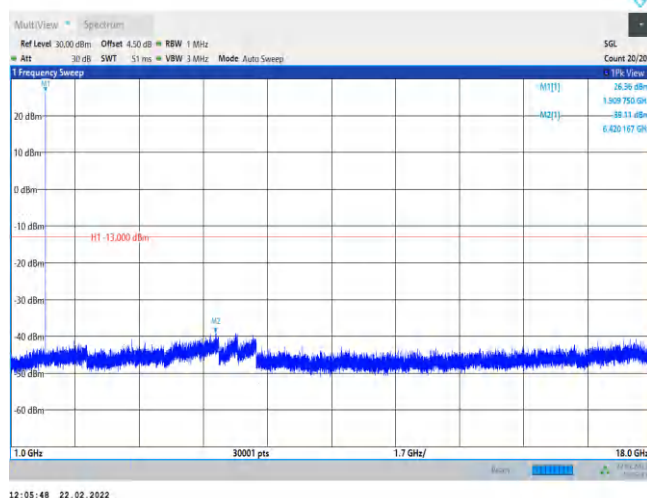
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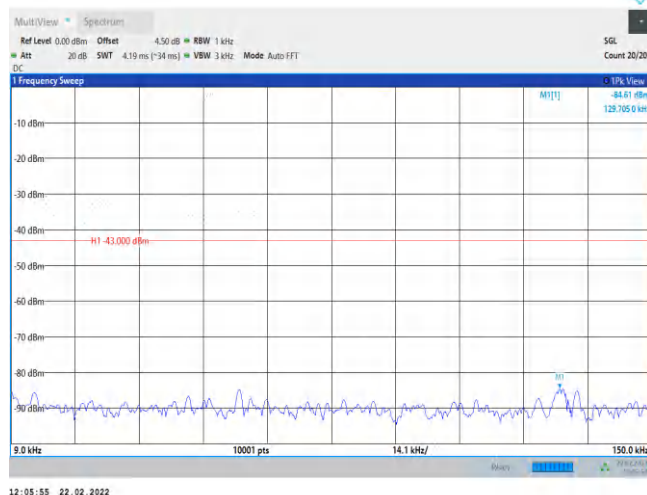
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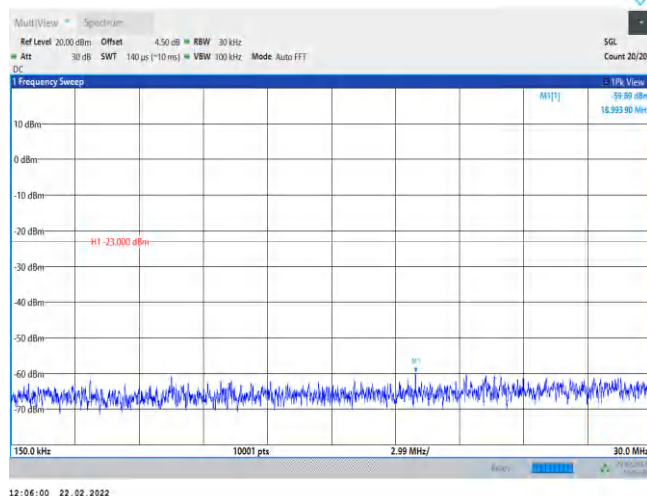
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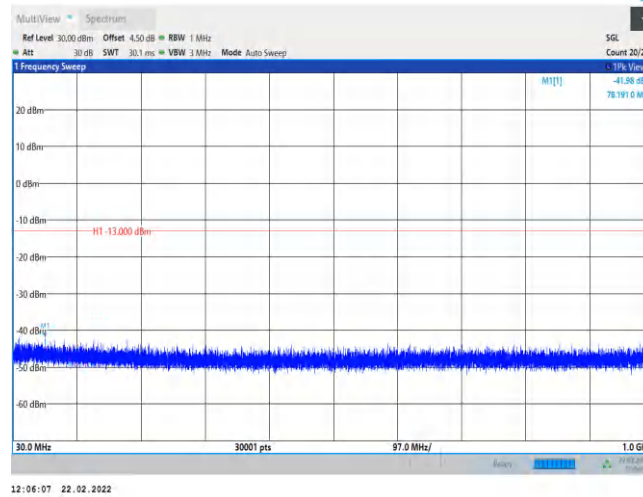
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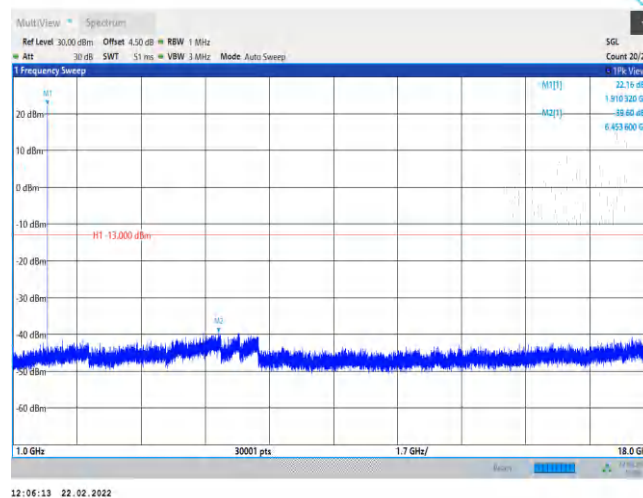
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Field Strength of Spurious Radiation

Test Band = _GSM850 ANT0 TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	65.22	-118.11	-52.89	-13.00	39.89	195	184	Horizontal
2	2472.6000	57.41	-114.90	-57.49	-13.00	44.49	125	235	Horizontal
3	3296.8000	51.10	-112.37	-61.27	-13.00	48.27	184	208	Horizontal
4	4121.0000	52.56	-110.19	-57.63	-13.00	44.63	176	124	Horizontal
5	4945.2000	50.26	-108.22	-57.96	-13.00	44.96	235	321	Horizontal
6	6735.4286	50.21	-103.63	-53.42	-13.00	40.42	145	183	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	58.09	-118.11	-60.02	-13.00	47.02	185	230	Vertical
2	2472.5714	59.90	-114.90	-55.00	-13.00	42.00	169	114	Vertical
3	3296.8000	50.95	-112.37	-61.42	-13.00	48.42	184	320	Vertical
4	4121.0000	49.98	-110.19	-60.21	-13.00	47.21	266	14	Vertical
5	4945.2000	49.99	-108.22	-58.23	-13.00	45.23	245	64	Vertical
6	5977.1429	51.05	-105.73	-54.68	-13.00	41.68	194	282	Vertical



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Test Band = _GSM850 ANT0 TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	63.35	-118.07	-54.72	-13.00	41.72	178	40	Horizontal
2	2509.1429	60.82	-114.70	-53.88	-13.00	40.88	194	155	Horizontal
3	3345.6000	54.03	-112.38	-58.35	-13.00	45.35	254	25	Horizontal
4	4182.0000	50.65	-110.14	-59.49	-13.00	46.49	186	33	Horizontal
5	5018.4000	48.84	-108.10	-59.26	-13.00	46.26	234	357	Horizontal
6	6458.8571	51.17	-105.09	-53.92	-13.00	40.92	177	207	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	63.11	-118.07	-54.96	-13.00	41.96	188	24	Vertical
2	2509.2000	59.62	-114.69	-55.07	-13.00	42.07	194	282	Vertical
3	3345.6000	54.24	-112.38	-58.14	-13.00	45.14	172	0	Vertical
4	4182.0000	49.70	-110.14	-60.44	-13.00	47.44	234	115	Vertical
5	5018.4000	49.76	-108.10	-58.34	-13.00	45.34	162	295	Vertical
6	6605.7143	50.37	-104.27	-53.90	-13.00	40.90	124	356	Vertical



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Member of the SGS Group (SGS SA)



Test Band = _GSM850 ANT0 TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	71.05	-118.03	-46.98	-13.00	33.98	188	4	Horizontal
2	2546.4000	59.29	-114.45	-55.16	-13.00	42.16	145	40	Horizontal
3	3395.2000	57.40	-112.37	-54.97	-13.00	41.97	235	348	Horizontal
4	4244.0000	52.07	-109.95	-57.88	-13.00	44.88	174	15	Horizontal
5	5092.8000	48.86	-107.74	-58.88	-13.00	45.88	105	196	Horizontal
6	6014.8571	51.54	-105.59	-54.05	-13.00	41.05	239	248	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	64.88	-118.03	-53.15	-13.00	40.15	196	73	Vertical
2	2546.4000	59.28	-114.45	-55.17	-13.00	42.17	258	21	Vertical
3	3395.2000	54.18	-112.37	-58.19	-13.00	45.19	147	164	Vertical
4	4244.0000	50.67	-109.95	-59.28	-13.00	46.28	159	6	Vertical
5	5092.8000	49.36	-107.74	-58.38	-13.00	45.38	205	256	Vertical
6	6886.8571	50.64	-103.48	-52.84	-13.00	39.84	234	190	Vertical



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Member of the SGS Group (SGS SA)



Test Band = _GSM850 ANT3 TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	56.07	-118.11	-62.04	-13.00	49.04	188	271	Horizontal
2	2472.5714	60.96	-114.90	-53.94	-13.00	40.94	196	284	Horizontal
3	3296.8000	51.62	-112.37	-60.75	-13.00	47.75	172	142	Horizontal
4	4121.0000	51.45	-110.19	-58.74	-13.00	45.74	234	91	Horizontal
5	4945.2000	50.69	-108.22	-57.53	-13.00	44.53	178	169	Horizontal
6	6581.1429	51.29	-104.42	-53.13	-13.00	40.13	201	91	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	64.90	-118.11	-53.21	-13.00	40.21	188	0	Vertical
2	2472.6000	50.91	-114.90	-63.99	-13.00	50.99	194	152	Vertical
3	3296.8000	50.32	-112.37	-62.05	-13.00	49.05	126	6	Vertical
4	4121.0000	49.55	-110.19	-60.64	-13.00	47.64	234	269	Vertical
5	4945.2000	49.84	-108.22	-58.38	-13.00	45.38	170	191	Vertical
6	5954.2857	50.49	-105.89	-55.40	-13.00	42.40	255	48	Vertical



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Test Band = _GSM850 ANT3 TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	71.66	-118.07	-46.41	-13.00	33.41	116	347	Horizontal
2	2509.2000	61.56	-114.69	-53.13	-13.00	40.13	189	273	Horizontal
3	3345.6000	55.53	-112.38	-56.85	-13.00	43.85	142	299	Horizontal
4	4182.0000	51.74	-110.14	-58.40	-13.00	45.40	125	4	Horizontal
5	5018.4000	49.24	-108.10	-58.86	-13.00	45.86	175	66	Horizontal
6	5942.2857	51.34	-105.98	-54.64	-13.00	41.64	254	169	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	60.48	-118.07	-57.59	-13.00	44.59	145	185	Vertical
2	2509.2000	52.91	-114.69	-61.78	-13.00	48.78	236	222	Vertical
3	3345.6000	52.89	-112.38	-59.49	-13.00	46.49	258	62	Vertical
4	4182.0000	48.94	-110.14	-61.20	-13.00	48.20	159	101	Vertical
5	5018.4000	49.37	-108.10	-58.73	-13.00	45.73	174	115	Vertical
6	6721.7143	50.47	-103.65	-53.18	-13.00	40.18	221	101	Vertical



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Test Band = _GSM850 ANT3 TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	76.03	-118.03	-42.00	-13.00	29.00	188	26	Horizontal
2	2546.4000	61.18	-114.45	-53.27	-13.00	40.27	194	4	Horizontal
3	3395.2000	58.67	-112.37	-53.70	-13.00	40.70	172	285	Horizontal
4	4244.0000	51.09	-109.95	-58.86	-13.00	45.86	144	91	Horizontal
5	5092.8000	48.04	-107.74	-59.70	-13.00	46.70	125	116	Horizontal
6	6629.1429	50.21	-104.13	-53.92	-13.00	40.92	235	257	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	68.73	-118.03	-49.30	-13.00	36.30	188	116	Vertical
2	2546.4000	53.67	-114.45	-60.78	-13.00	47.78	142	1	Vertical
3	3395.2000	52.86	-112.37	-59.51	-13.00	46.51	299	77	Vertical
4	4244.0000	48.92	-109.95	-61.03	-13.00	48.03	142	1	Vertical
5	5092.8000	47.49	-107.74	-60.25	-13.00	47.25	237	308	Vertical
6	5844.5714	51.11	-106.22	-55.11	-13.00	42.11	140	62	Vertical



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Test Band = _GSM1900 ANT3 TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	56.57	-110.79	-54.22	-13.00	41.22	148	258	Horizontal
2	5550.6000	48.63	-107.45	-58.82	-13.00	45.82	165	200	Horizontal
3	7400.8000	48.56	-102.18	-53.62	-13.00	40.62	194	114	Horizontal
4	9251.0000	44.34	-97.12	-52.78	-13.00	39.78	172	15	Horizontal
5	11101.2000	40.67	-94.13	-53.46	-13.00	40.46	234	200	Horizontal
6	13691.25	42.70	-91.35	-48.65	-13.00	35.65	188	356	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	51.54	-110.79	-59.25	-13.00	46.25	154	260	Vertical
2	5550.6000	48.00	-107.45	-59.45	-13.00	46.45	124	6	Vertical
3	7400.8000	47.88	-102.18	-54.30	-13.00	41.30	236	28	Vertical
4	9251.0000	44.08	-97.12	-53.04	-13.00	40.04	295	142	Vertical
5	11101.2000	40.16	-94.13	-53.97	-13.00	40.97	148	187	Vertical
6	13757.25	42.20	-91.56	-49.36	-13.00	36.36	175	199	Vertical



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Test Band = _GSM1900 ANT3 TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	57.88	-110.83	-52.95	-13.00	39.95	184	275	Horizontal
2	5640.0000	49.72	-107.08	-57.36	-13.00	44.36	179	86	Horizontal
3	7520.0000	47.50	-101.93	-54.43	-13.00	41.43	146	18	Horizontal
4	9400.0000	42.92	-96.60	-53.68	-13.00	40.68	125	100	Horizontal
5	11280.0000	39.70	-93.56	-53.86	-13.00	40.86	238	203	Horizontal
6	13710.75	41.96	-91.40	-49.44	-13.00	36.44	144	232	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	51.43	-110.83	-59.40	-13.00	46.40	196	86	Vertical
2	5640.0000	48.76	-107.08	-58.32	-13.00	45.32	234	100	Vertical
3	7520.0000	47.09	-101.93	-54.84	-13.00	41.84	228	3	Vertical
4	9400.0000	43.72	-96.60	-52.88	-13.00	39.88	198	172	Vertical
5	11280.0000	40.00	-93.56	-53.56	-13.00	40.56	147	172	Vertical
6	13679.25	42.02	-91.33	-49.31	-13.00	36.31	203	188	Vertical



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Test Band = _GSM1900 ANT3 TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	57.96	-110.87	-52.91	-13.00	39.91	148	274	Horizontal
2	7639.2000	47.25	-101.80	-54.55	-13.00	41.55	233	245	Horizontal
3	9549.0000	42.86	-96.76	-53.90	-13.00	40.90	201	331	Horizontal
4	11458.8000	41.76	-93.55	-51.79	-13.00	38.79	269	0	Horizontal
5	13700.25	41.99	-91.37	-49.38	-13.00	36.38	284	100	Horizontal
6	16960.5	42.12	-90.45	-48.33	-13.00	35.33	175	303	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	51.13	-	-59.74	-13.00	46.74	255	260	Vertical
2	7639.2000	47.21	-	-54.59	-13.00	41.59	246	84	Vertical
3	9549.0000	43.11	-96.76	-53.65	-13.00	40.65	259	243	Vertical
4	11458.8000	40.49	-93.55	-53.06	-13.00	40.06	286	214	Vertical
5	13694.25	42.16	-91.35	-49.19	-13.00	36.19	271	1	Vertical
6	16961.25	41.94	-90.44	-48.50	-13.00	35.50	124	1	Vertical



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Test on the worst case:

Field Strength of Spurious Radiation

Test Band = GSM850

Test Channel = Low-ANT0

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	72.05	-118.07	-46.02	-13.00	33.02	162	123	Horizontal
2	2472.6	69.51	-114.37	-44.86	-13.00	31.86	174	134	Horizontal
3	3296.8	52.02	-111.89	-59.87	-13.00	46.87	162	351	Horizontal
4	4121	50.90	-109.81	-58.91	-13.00	45.91	195	134	Horizontal
5	4944	56.32	-107.88	-51.56	-13.00	38.56	218	196	Horizontal
6	5769.4	53.55	-105.32	-51.77	-13.00	38.77	164	82	Horizontal

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	69.35	-118.07	-48.72	-13.00	35.72	261	1	Vertical
2	2472	71.03	-114.39	-43.36	-13.00	30.36	196	16	Vertical
3	3296.8	60.42	-111.89	-51.47	-13.00	38.47	321	187	Vertical
4	4121	52.23	-109.81	-57.58	-13.00	44.58	185	228	Vertical
5	4945.2	55.12	-107.88	-52.76	-13.00	39.76	147	95	Vertical
6	5769.4	54.10	-105.32	-51.22	-13.00	38.22	247	1	Vertical



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Test Band = GSM850

Test Channel = Low-ANT3

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4	54.76	-118.07	-63.31	-13.00	50.31	261	257	Horizontal
2	2472	62.29	-114.39	-52.10	-13.00	39.10	185	308	Horizontal
3	3296.8	51.47	-111.89	-60.42	-13.00	47.42	241	246	Horizontal
4	4121	50.21	-109.81	-59.60	-13.00	46.60	186	360	Horizontal
5	4945.2	50.50	-107.88	-57.38	-13.00	44.38	211	308	Horizontal
6	5769.4	49.92	-105.32	-55.40	-13.00	42.40	227	174	Horizontal

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4	52.51	-118.07	-65.56	-13.00	52.56	264	0	Vertical
2	2472	62.72	-114.39	-51.67	-13.00	38.67	185	331	Vertical
3	3296.8	50.61	-111.89	-61.28	-13.00	48.28	254	268	Vertical
4	4121	48.56	-109.81	-61.25	-13.00	48.25	188	176	Vertical
5	4945.2	50.97	-107.88	-56.91	-13.00	43.91	218	156	Vertical
6	5769.4	50.09	-105.32	-55.23	-13.00	42.23	229	72	Vertical



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Test Band = GSM850

Test Channel = Mid-ANT0

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	58.24	-118.01	-59.77	-13.00	46.77	215	205	Horizontal
2	2509.2	67.21	-114.12	-46.91	-13.00	33.91	296	360	Horizontal
3	3345.6	52.24	-111.99	-59.75	-13.00	46.75	248	40	Horizontal
4	4182	51.21	-109.53	-58.32	-13.00	45.32	284	163	Horizontal
5	5018.4	50.28	-107.59	-57.31	-13.00	44.31	185	184	Horizontal
6	5854.8	50.89	-104.86	-53.97	-13.00	40.97	294	20	Horizontal

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	53.88	-118.01	-64.13	-13.00	51.13	162	63	Vertical
2	2509.2	67.92	-114.12	-46.20	-13.00	33.20	185	53	Vertical
3	3345.6	51.33	-111.99	-60.66	-13.00	47.66	294	310	Vertical
4	4182	49.37	-109.53	-60.16	-13.00	47.16	185	320	Vertical
5	5018.4	49.84	-107.59	-57.75	-13.00	44.75	218	63	Vertical
6	5854.8	51.98	-104.86	-52.88	-13.00	39.88	222	260	Vertical



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Test Band = GSM850

Test Channel = Mid-ANT3

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	58.53	-118.01	-59.48	-13.00	46.48	296	20	Horizontal
2	2509.2	64.23	-114.12	-49.89	-13.00	36.89	241	360	Horizontal
3	3345.6	54.14	-111.99	-57.85	-13.00	44.85	185	3	Horizontal
4	4182	52.17	-109.53	-57.36	-13.00	44.36	175	165	Horizontal
5	5018.4	50.30	-107.59	-57.29	-13.00	44.29	217	143	Horizontal
6	5854.8	51.33	-104.86	-53.53	-13.00	40.53	185	194	Horizontal

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	55.53	-118.01	-62.48	-13.00	49.48	162	288	Vertical
2	2509.2	63.77	-114.12	-50.35	-13.00	37.35	175	185	Vertical
3	3345.6	51.78	-111.99	-60.21	-13.00	47.21	264	236	Vertical
4	4182	48.89	-109.53	-60.64	-13.00	47.64	185	83	Vertical
5	5018.4	49.87	-107.59	-57.72	-13.00	44.72	217	256	Vertical
6	5854.8	52.52	-104.86	-52.34	-13.00	39.34	183	124	Vertical



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Test Band = GSM850
Test Channel = High-ANTO

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	68.80	-117.95	-49.15	-13.00	36.15	294	359	Horizontal
2	2546	63.79	-114.17	-50.38	-13.00	37.38	285	257	Horizontal
3	3395.2	53.44	-112.09	-58.65	-13.00	45.65	175	297	Horizontal
4	4244	49.35	-109.38	-60.03	-13.00	47.03	265	19	Horizontal
5	5092.8	50.30	-107.28	-56.98	-13.00	43.98	144	163	Horizontal
6	5941.6	50.53	-104.60	-54.07	-13.00	41.07	118	51	Horizontal

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	67.55	-117.95	-50.40	-13.00	37.40	165	229	Vertical
2	2546	64.93	-114.17	-49.24	-13.00	36.24	241	137	Vertical
3	3395.2	51.70	-112.09	-60.39	-13.00	47.39	185	106	Vertical
4	4244	49.70	-109.38	-59.68	-13.00	46.68	264	340	Vertical
5	5092.8	49.38	-107.28	-57.90	-13.00	44.90	218	260	Vertical
6	5941.6	50.69	-104.60	-53.91	-13.00	40.91	185	56	Vertical



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Test Band = GSM850

Test Channel = High-ANT3

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	68.20	-117.95	-49.75	-13.00	36.75	162	70	Horizontal
2	2546	65.70	-114.17	-48.47	-13.00	35.47	185	224	Horizontal
3	3395.2	51.88	-112.09	-60.21	-13.00	47.21	294	358	Horizontal
4	4244	49.01	-109.38	-60.37	-13.00	47.37	186	360	Horizontal
5	5092.8	49.44	-107.28	-57.84	-13.00	44.84	217	360	Horizontal
6	5941.6	50.70	-104.60	-53.90	-13.00	40.90	185	204	Horizontal

Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	77.52	-117.95	-40.43	-13.00	27.43	261	206	Vertical
2	2546	65.90	-114.17	-48.27	-13.00	35.27	186	175	Vertical
3	3395.2	52.96	-112.09	-59.13	-13.00	46.13	294	216	Vertical
4	4244	51.16	-109.38	-58.22	-13.00	45.22	186	216	Vertical
5	5092.8	50.45	-107.28	-56.83	-13.00	43.83	186	72	Vertical
6	5941.6	51.23	-104.60	-53.37	-13.00	40.37	218	84	Vertical



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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	20.28	0.024241	±2.5	PASS
GSM850	190	VN	NT	21.57	0.025783	±2.5	PASS
GSM850	190	VH	NT	16.27	0.019448	±2.5	PASS
EGPRS850	190	VL	NT	32.67	0.039051	±2.5	PASS
EGPRS850	190	VN	NT	31.28	0.037389	±2.5	PASS
EGPRS850	190	VH	NT	30.48	0.036433	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	2.97	0.001580	PASS
GSM1900	661	VN	NT	4.07	0.002165	PASS
GSM1900	661	VH	NT	6.42	0.003415	PASS
EGPRS1900	661	VL	NT	23.50	0.012500	PASS
EGPRS1900	661	VN	NT	22.83	0.012144	PASS
EGPRS1900	661	VH	NT	20.53	0.010920	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	17.05	0.020380	±2.5	PASS
GSM850	190	NV	-20	20.89	0.024970	±2.5	PASS
GSM850	190	NV	-10	20.47	0.024468	±2.5	PASS
GSM850	190	NV	0	19.37	0.023153	±2.5	PASS
GSM850	190	NV	10	18.79	0.022460	±2.5	PASS
GSM850	190	NV	20	17.79	0.021265	±2.5	PASS
GSM850	190	NV	30	17.95	0.021456	±2.5	PASS
GSM850	190	NV	40	18.53	0.022149	±2.5	PASS
GSM850	190	NV	50	17.85	0.021336	±2.5	PASS
EGPRS850	190	NV	-30	29.44	0.035190	±2.5	PASS
EGPRS850	190	NV	-20	30.38	0.036314	±2.5	PASS
EGPRS850	190	NV	-10	30.48	0.036433	±2.5	PASS
EGPRS850	190	NV	0	28.64	0.034234	±2.5	PASS
EGPRS850	190	NV	10	29.57	0.035345	±2.5	PASS
EGPRS850	190	NV	20	31.45	0.037593	±2.5	PASS
EGPRS850	190	NV	30	30.35	0.036278	±2.5	PASS
EGPRS850	190	NV	40	30.03	0.035895	±2.5	PASS
EGPRS850	190	NV	50	31.03	0.037091	±2.5	PASS



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Band	Channel	Voltage Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	3.55	0.001888	PASS
GSM1900	661	NV	-20	4.20	0.002234	PASS
GSM1900	661	NV	-10	2.49	0.001324	PASS
GSM1900	661	NV	0	4.23	0.002250	PASS
GSM1900	661	NV	10	7.33	0.003899	PASS
GSM1900	661	NV	20	6.78	0.003606	PASS
GSM1900	661	NV	30	2.52	0.001340	PASS
GSM1900	661	NV	40	4.91	0.002612	PASS
GSM1900	661	NV	50	2.94	0.001564	PASS
EGPRS1900	661	NV	-30	19.02	0.010117	PASS
EGPRS1900	661	NV	-20	20.24	0.010766	PASS
EGPRS1900	661	NV	-10	25.41	0.013516	PASS
EGPRS1900	661	NV	0	21.83	0.011612	PASS
EGPRS1900	661	NV	10	20.82	0.011074	PASS
EGPRS1900	661	NV	20	18.11	0.009633	PASS
EGPRS1900	661	NV	30	22.79	0.012122	PASS
EGPRS1900	661	NV	40	20.70	0.011011	PASS
EGPRS1900	661	NV	50	21.02	0.011181	PASS

The End



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