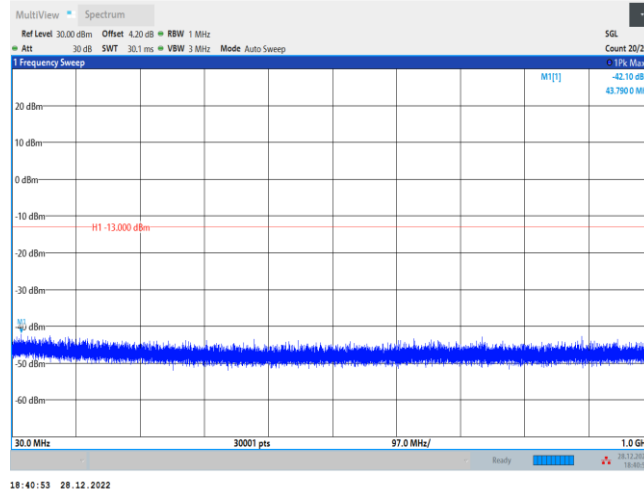
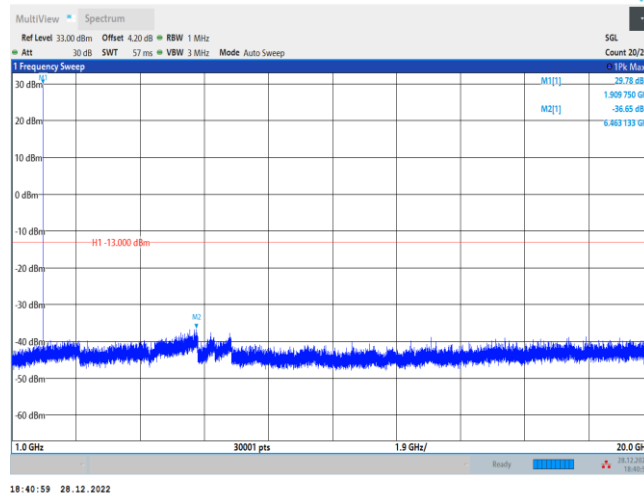


GSM1900-810-30~1000MHz



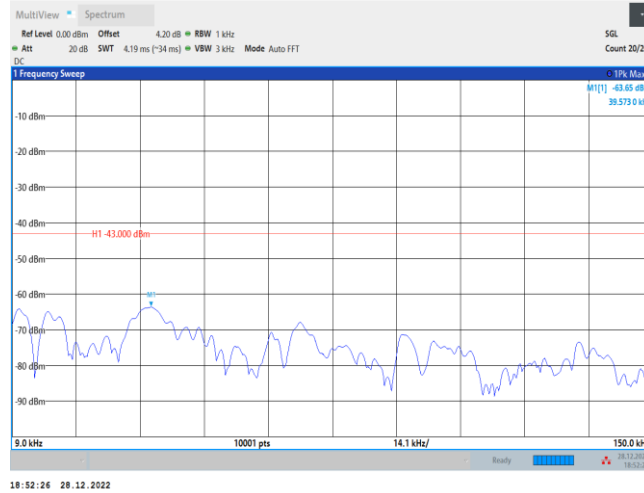
GSM1900-810-1000~20000MHz



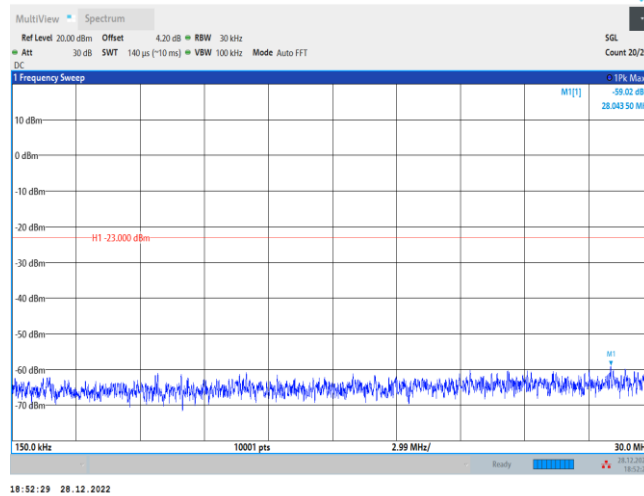
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EGPRS1900-512-0.009~0.15MHz



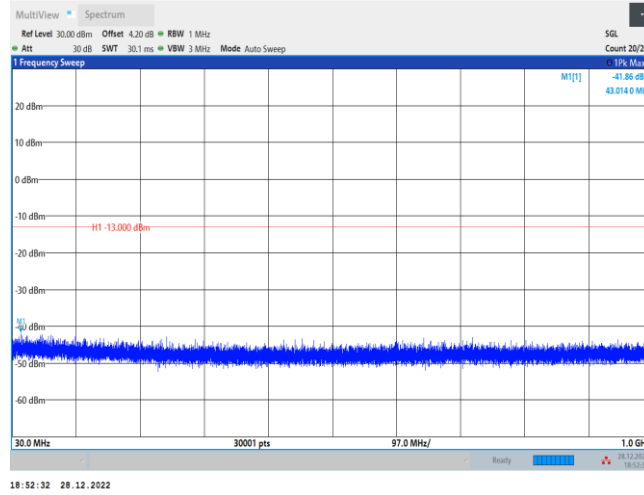
EGPRS1900-512-0.15~30MHz



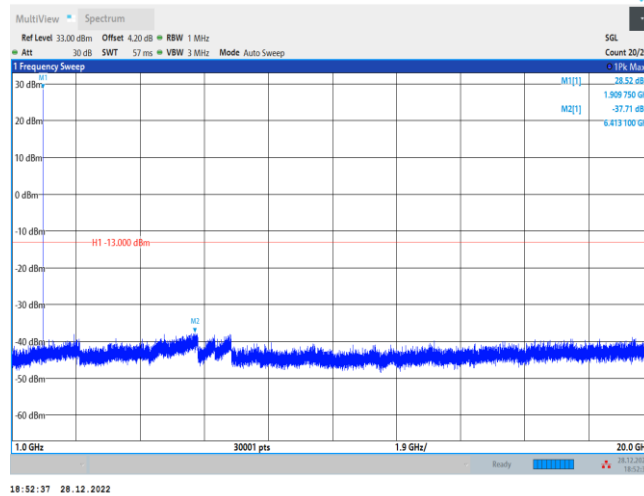
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EGPRS1900-512-30~1000MHz



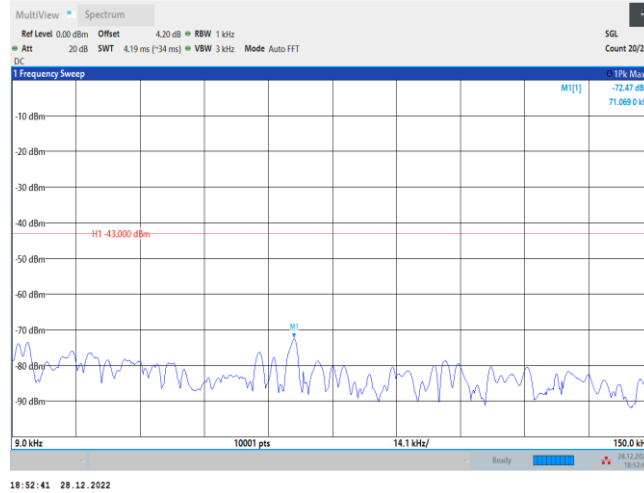
EGPRS1900-512-1000~20000MHz



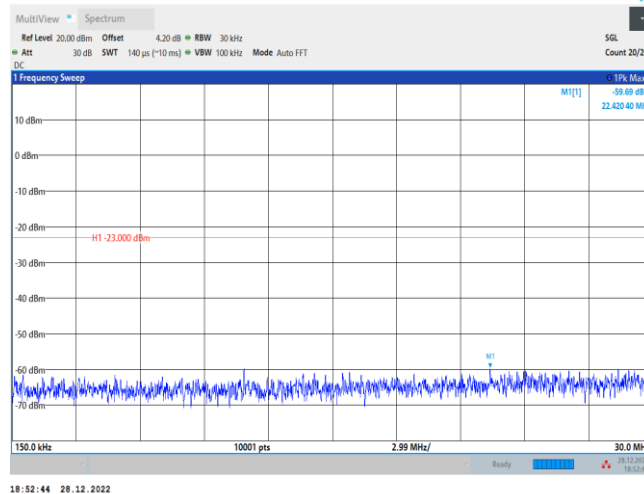
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EGPRS1900-661-0.009~0.15MHz

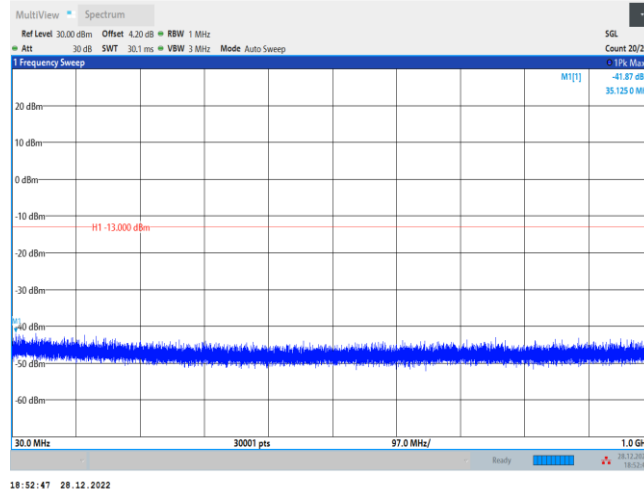


EGPRS1900-661-0.15~30MHz

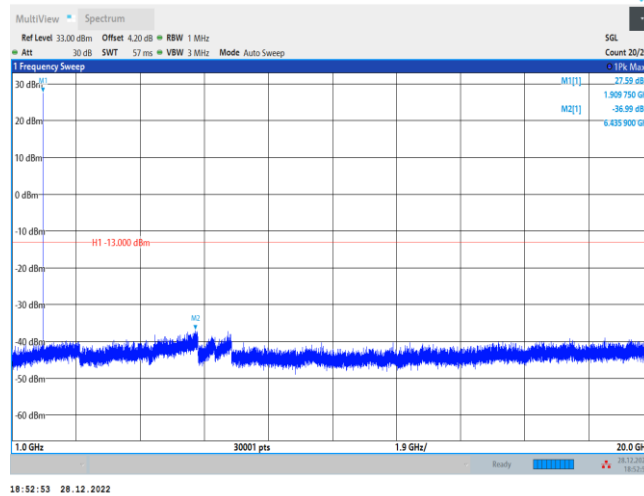


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EGPRS1900-661-30~1000MHz



EGPRS1900-661-1000~20000MHz

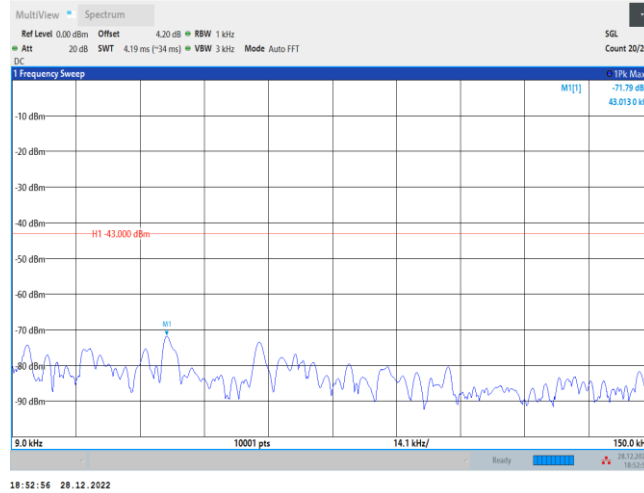


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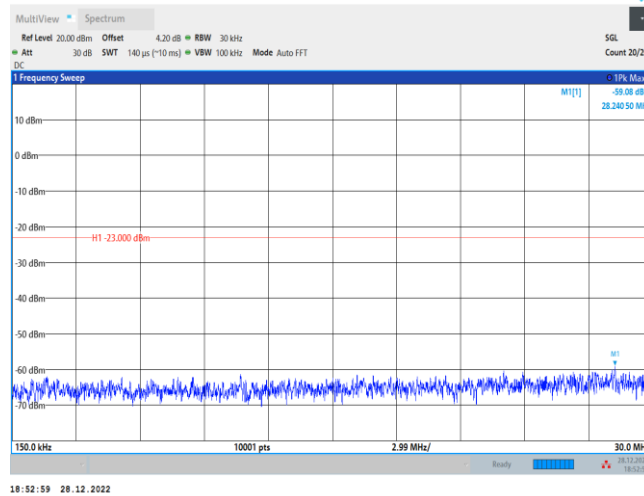
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EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz

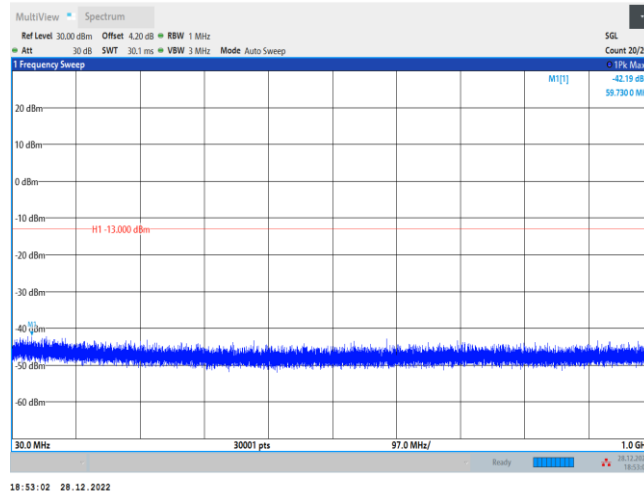


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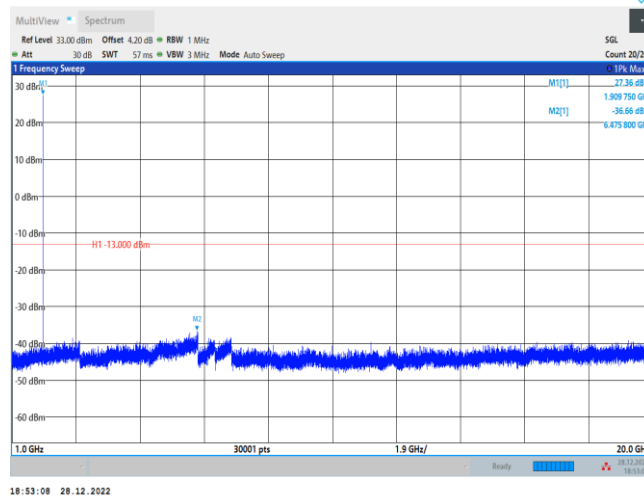
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EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~20000MHz



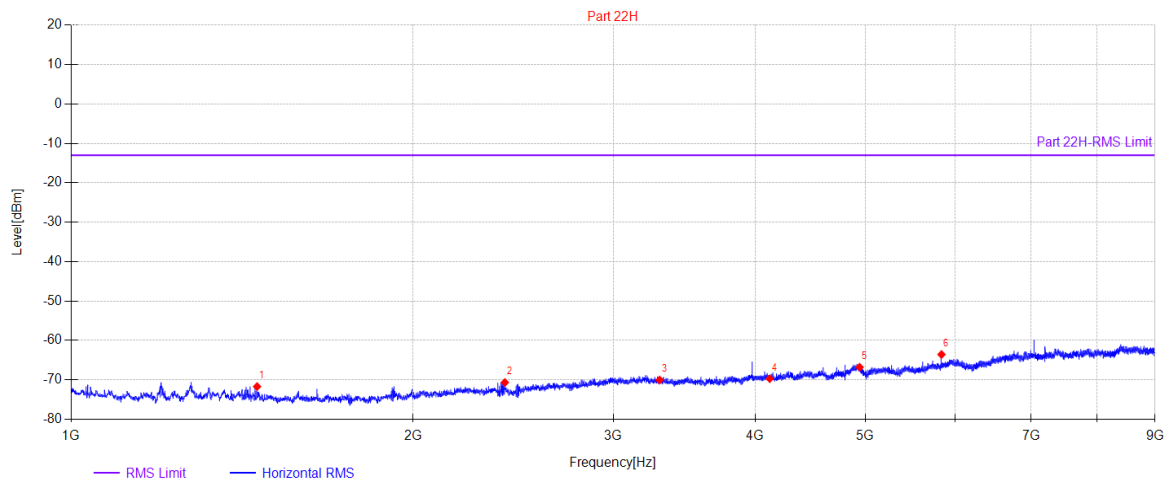
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Field Strength of Spurious Radiation

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	1457.7143	46.20	-48.18	25.54	-71.70	-13.00	58.70	148	89	Horizontal
2	2409.1429	44.56	-47.43	27.47	-70.66	-13.00	57.66	236	74	Horizontal
3	3296.8000	42.33	-46.67	29.56	-70.04	-13.00	57.04	251	254	Horizontal
4	4121.0000	40.49	-45.91	30.98	-69.70	-13.00	56.70	148	357	Horizontal
5	4945.2000	41.43	-45.69	32.73	-66.79	-13.00	53.79	159	21	Horizontal
6	5837.7143	42.66	-44.78	33.82	-63.56	-13.00	50.56	185	1	Horizontal

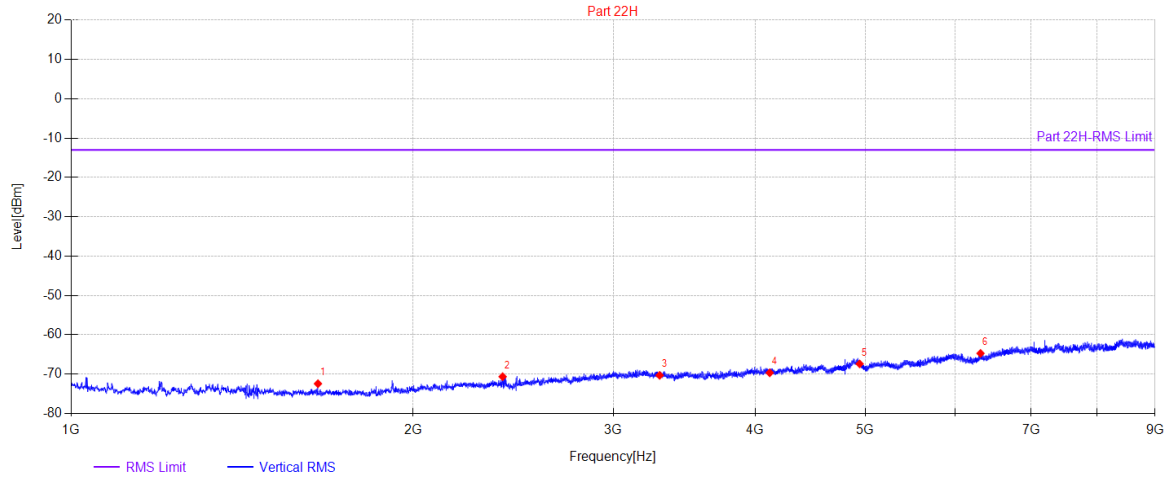


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	45.68	-48.22	25.37	-72.43	-13.00	59.43	214	123	Vertical
2	2398.2857	44.63	-47.45	27.44	-70.64	-13.00	57.64	198	271	Vertical
3	3296.8000	42.06	-46.67	29.56	-70.31	-13.00	57.31	156	149	Vertical
4	4121.0000	40.52	-45.91	30.98	-69.67	-13.00	56.67	192	204	Vertical
5	4945.2000	40.83	-45.69	32.73	-67.39	-13.00	54.39	174	360	Vertical
6	6318.2857	40.73	-44.63	34.45	-64.72	-13.00	51.72	185	360	Vertical



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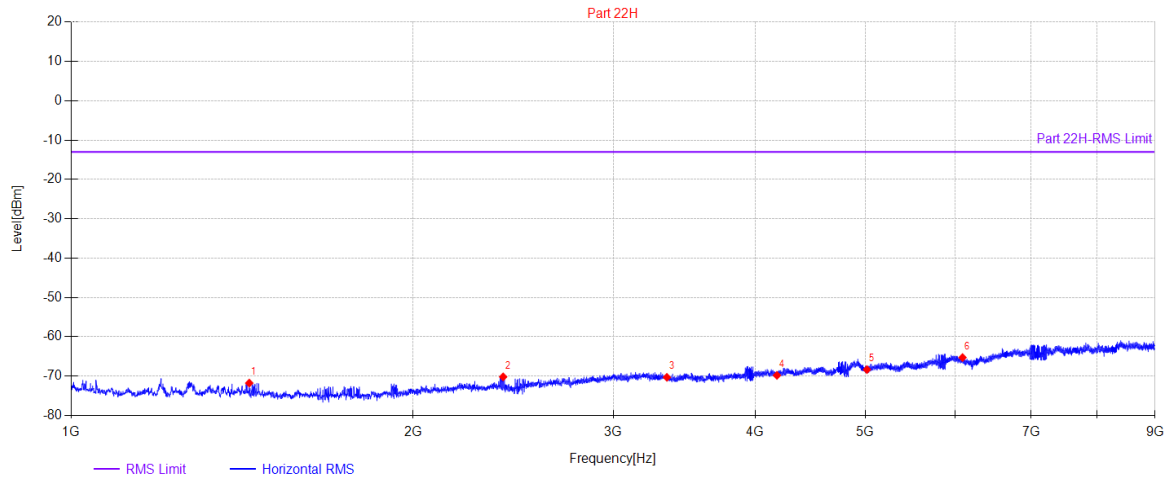
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Test Band = GSM850_ TM1

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	1434.8571	46.03	-48.11	25.57	-71.77	-13.00	58.77	245	104	Horizontal
2	2400.5714	45.08	-47.45	27.44	-70.19	-13.00	57.19	136	77	Horizontal
3	3345.6000	42.08	-46.62	29.50	-70.30	-13.00	57.30	142	13	Horizontal
4	4182.0000	40.34	-45.95	31.07	-69.80	-13.00	56.80	136	90	Horizontal
5	5018.4000	39.77	-45.73	32.89	-68.33	-13.00	55.33	251	13	Horizontal
6	6092	40.50	-44.67	34.16	-65.27	-13.00	52.27	211	347	Horizontal

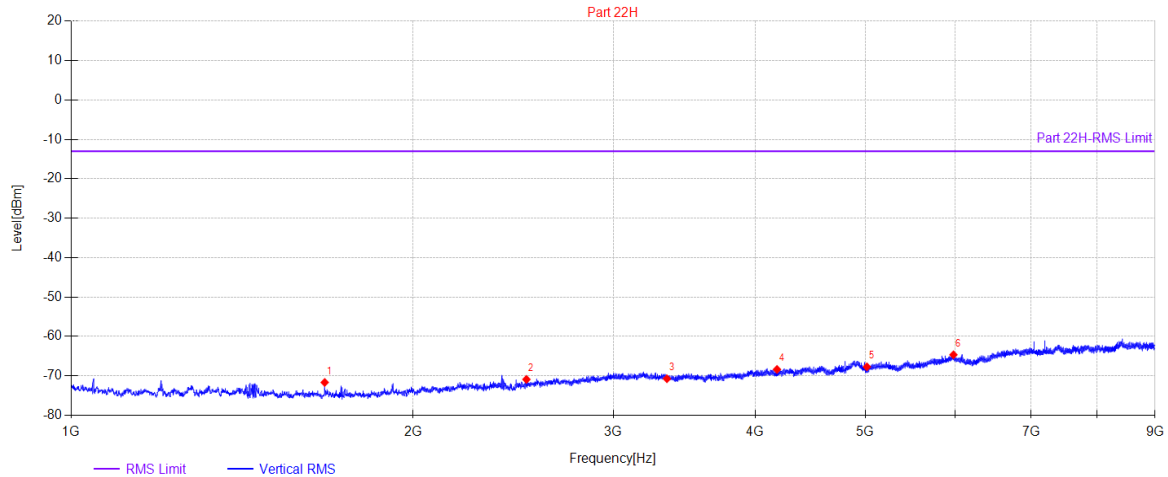


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672	46.41	-48.19	25.38	-71.66	-13.00	58.66	258	26	Vertical
2	2516.5714	43.76	-47.21	27.82	-70.89	-13.00	57.89	178	360	Vertical
3	3345.6000	41.65	-46.62	29.50	-70.73	-13.00	57.73	192	126	Vertical
4	4182.0000	41.77	-45.95	31.07	-68.37	-13.00	55.37	135	269	Vertical
5	5018.4000	40.39	-45.73	32.89	-67.71	-13.00	54.71	123	67	Vertical
6	5981.1429	41.04	-44.53	34.09	-64.66	-13.00	51.66	261	359	Vertical



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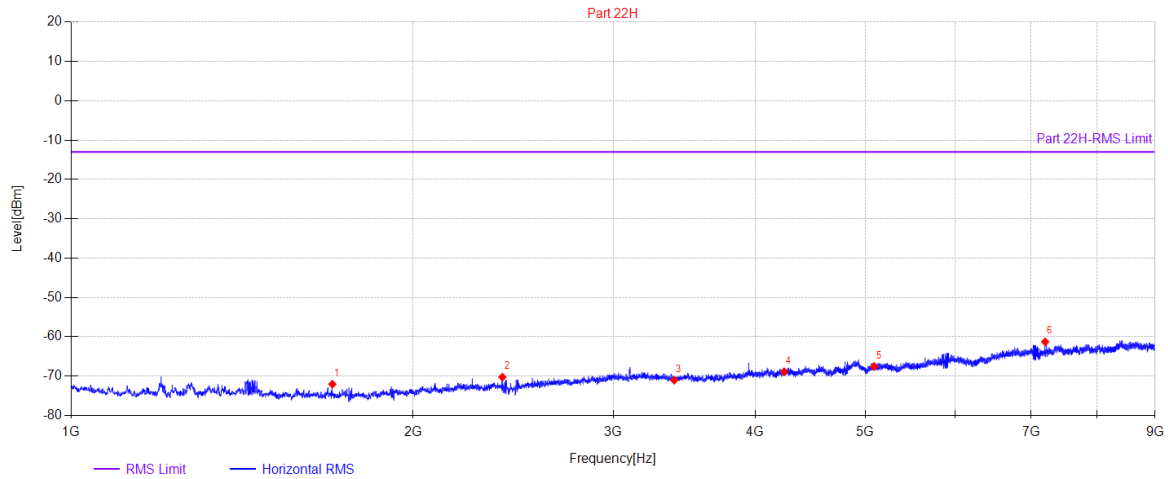
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Test Band = GSM850_ TM1

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	1698.2857	45.99	-48.16	25.39	-72.04	-13.00	59.04	236	2	Horizontal
2	2397.1429	45.01	-47.45	27.44	-70.26	-13.00	57.26	211	239	Horizontal
3	3395.2000	41.35	-46.55	29.44	-71.02	-13.00	58.02	291	293	Horizontal
4	4244.0000	41.04	-45.88	31.19	-68.91	-13.00	55.91	147	319	Horizontal
5	5092.8000	40.19	-45.41	32.93	-67.55	-13.00	54.55	158	62	Horizontal
6	7202.8571	41.24	-43.86	36.60	-61.28	-13.00	48.28	185	252	Horizontal

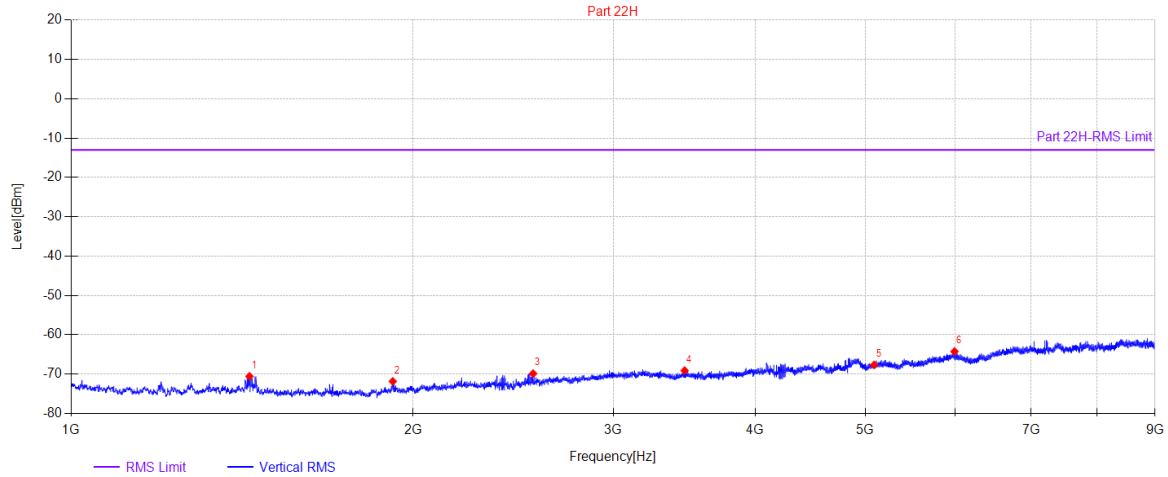


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1435.4286	47.24	-48.11	25.57	-70.56	-13.00	57.56	241	311	Vertical
2	1919.4286	45.29	-48.02	26.15	-71.84	-13.00	58.84	136	203	Vertical
3	2550.8571	44.55	-47.10	27.94	-69.87	-13.00	56.87	256	285	Vertical
4	3468	43.22	-46.54	29.49	-69.09	-13.00	56.09	211	311	Vertical
5	5092.8000	40.08	-45.41	32.93	-67.66	-13.00	54.66	148	359	Vertical
6	5993.7143	41.36	-44.46	34.12	-64.25	-13.00	51.25	175	4	Vertical



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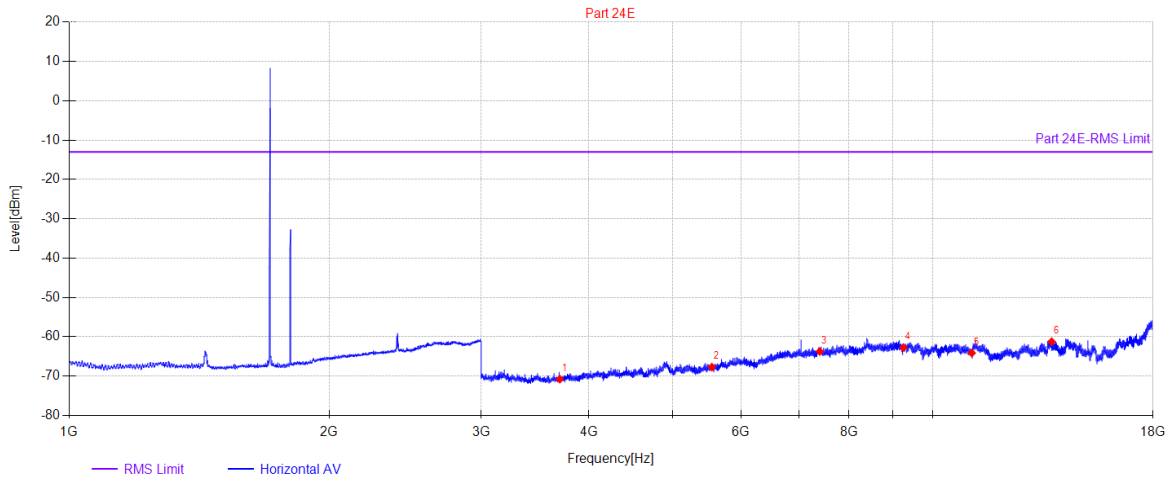
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Test Band = GSM1900_ TM1

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	40.02	-45.50	29.97	-70.77	-13.00	57.77	248	215	Horizontal
2	5550.6000	39.73	-45.15	32.97	-67.72	-13.00	54.72	156	16	Horizontal
3	7400.8000	38.44	-43.41	36.49	-63.74	-13.00	50.74	126	360	Horizontal
4	9251.0000	34.39	-40.23	38.38	-62.73	-13.00	49.73	148	185	Horizontal
5	11101.2000	30.01	-37.96	39.09	-64.12	-13.00	51.12	174	246	Horizontal
6	13735.5	30.25	-36.25	40.02	-61.23	-13.00	48.23	136	323	Horizontal

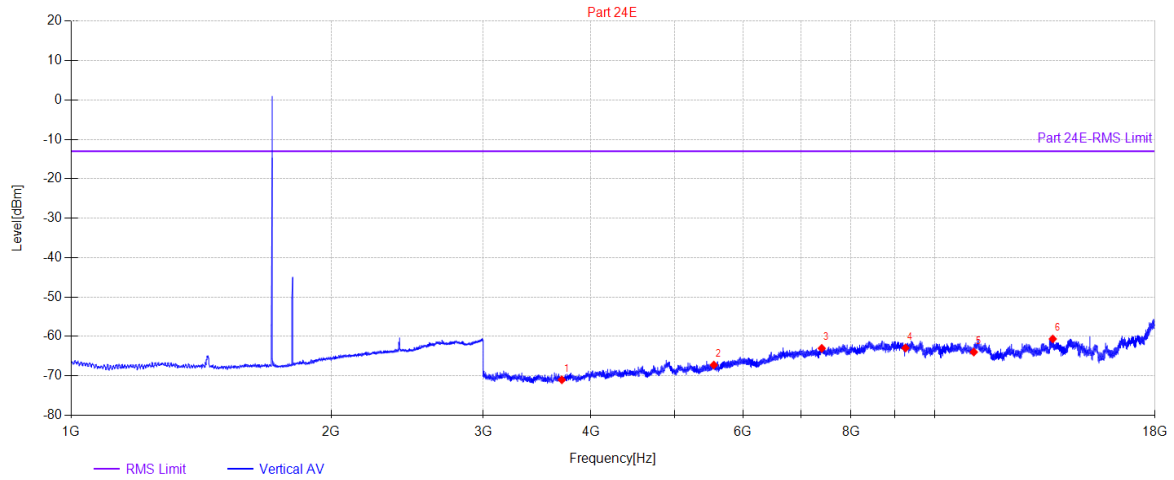


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	39.79	-45.50	29.97	-71.00	-13.00	58.00	278	347	Vertical
2	5550.6000	40.20	-45.15	32.97	-67.25	-13.00	54.25	148	106	Vertical
3	7400.8000	39.16	-43.41	36.49	-63.02	-13.00	50.02	159	360	Vertical
4	9251.0000	34.18	-40.23	38.38	-62.94	-13.00	49.94	126	92	Vertical
5	11101.2000	30.17	-37.96	39.09	-63.96	-13.00	50.96	256	59	Vertical
6	13704	30.75	-36.17	40.05	-60.63	-13.00	47.63	142	230	Vertical



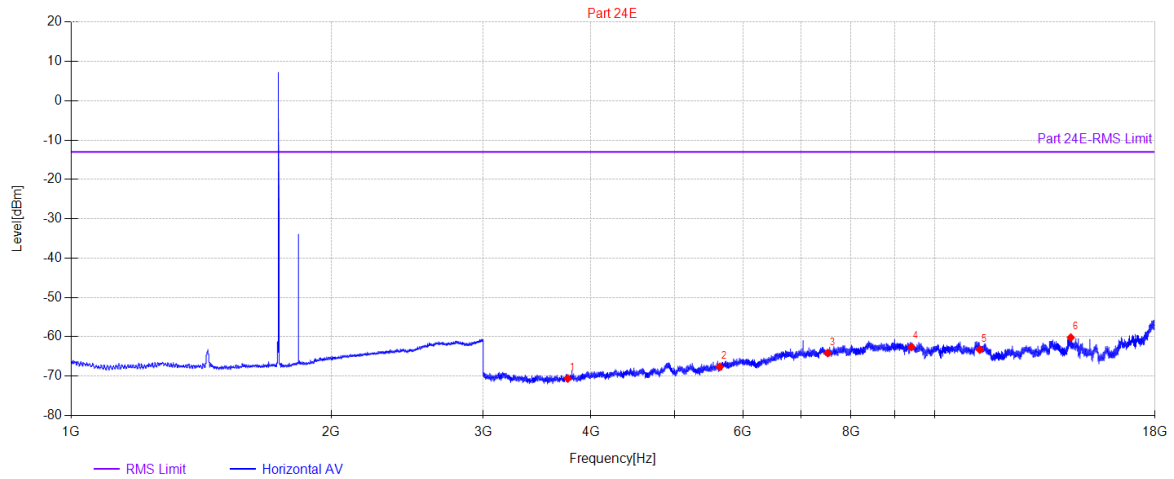
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Test Band = GSM1900_ TM1

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	40.23	-45.75	30.19	-70.60	-13.00	57.60	228	106	Horizontal
2	5640.0000	39.44	-44.98	33.17	-67.64	-13.00	54.64	147	121	Horizontal
3	7520.0000	37.80	-43.10	36.43	-64.13	-13.00	51.13	156	75	Horizontal
4	9400.0000	33.99	-39.83	38.49	-62.61	-13.00	49.61	291	47	Horizontal
5	11280.0000	30.28	-37.41	39.11	-63.28	-13.00	50.28	142	152	Horizontal
6	14380.5	30.05	-35.07	40.09	-60.18	-13.00	47.18	133	106	Horizontal

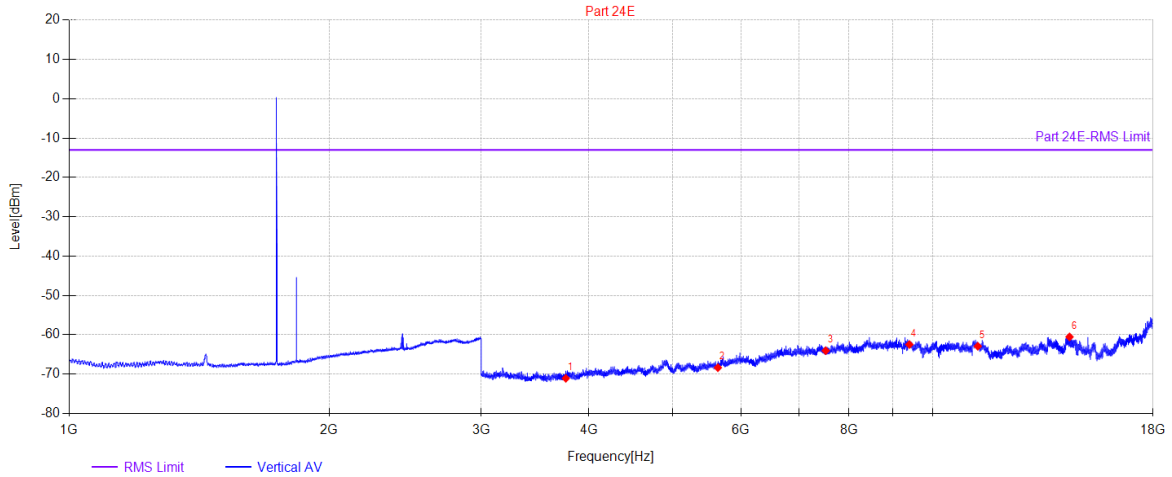


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Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	39.76	-45.75	30.19	-71.07	-13.00	58.07	147	305	Vertical
2	5640.0000	38.72	-44.98	33.17	-68.36	-13.00	55.36	158	184	Vertical
3	7520.0000	37.90	-43.10	36.43	-64.03	-13.00	51.03	169	338	Vertical
4	9400.0000	34.12	-39.83	38.49	-62.48	-13.00	49.48	185	46	Vertical
5	11280.0000	30.65	-37.41	39.11	-62.91	-13.00	49.91	142	359	Vertical
6	14407.5	29.45	-34.80	40.07	-60.54	-13.00	47.54	102	91	Vertical



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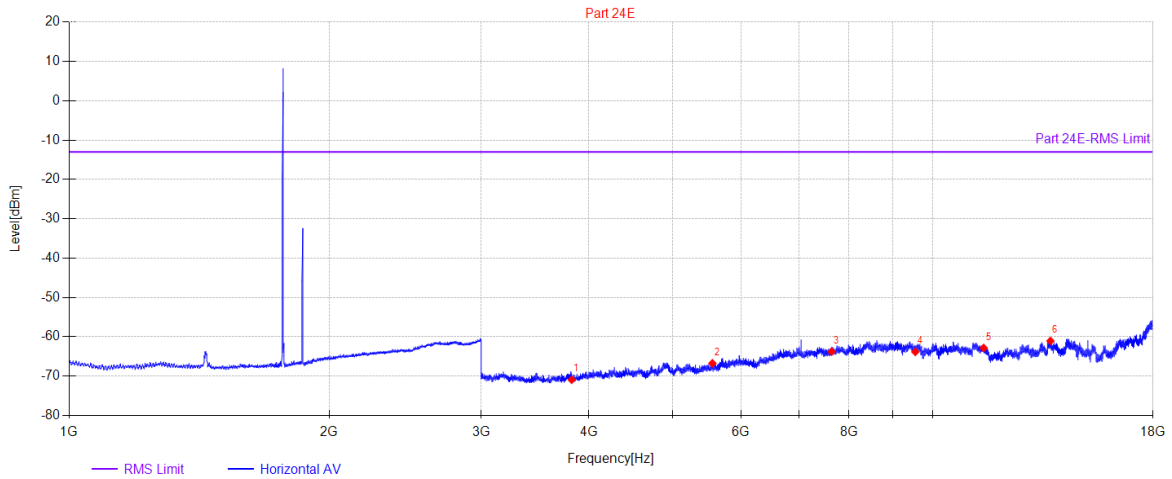
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Test Band = GSM1900_ TM1

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	39.96	-45.99	30.38	-70.91	-13.00	57.91	145	228	Horizontal
2	5558.25	40.70	-45.14	32.97	-66.73	-13.00	53.73	156	25	Horizontal
3	7639.2000	38.03	-43.01	36.47	-63.77	-13.00	50.77	263	200	Horizontal
4	9549.0000	32.93	-39.96	38.45	-63.83	-13.00	50.83	251	261	Horizontal
5	11458.8000	30.71	-37.33	39.04	-62.84	-13.00	49.84	142	122	Horizontal
6	13691.25	30.31	-36.15	40.06	-61.04	-13.00	48.04	196	358	Horizontal

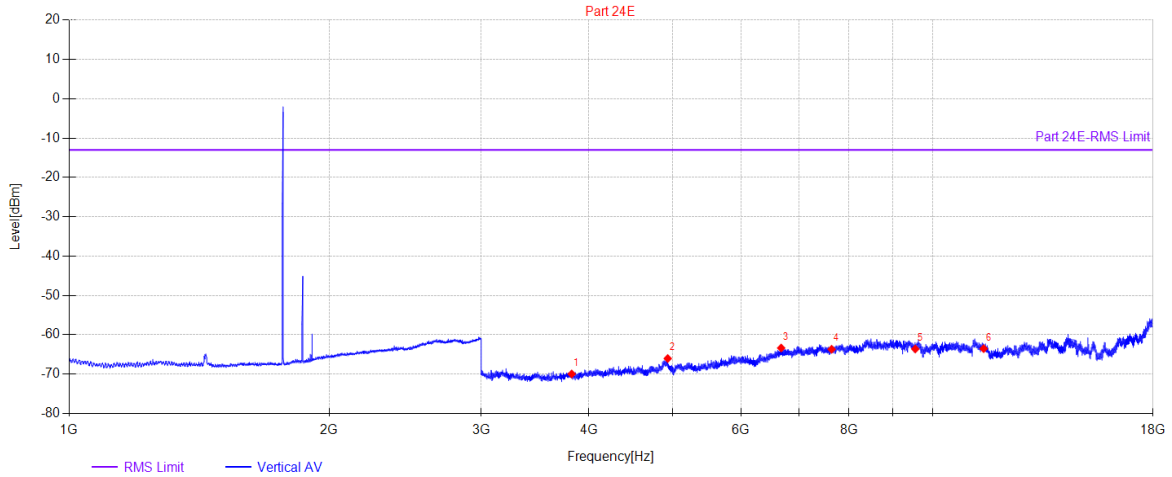


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	40.91	-45.99	30.38	-69.96	-13.00	56.96	248	227	Vertical
2	4934.25	42.10	-45.57	32.70	-66.03	-13.00	53.03	156	258	Vertical
3	6677.25	40.24	-43.93	35.59	-63.36	-13.00	50.36	291	61	Vertical
4	7639.2000	38.12	-43.01	36.47	-63.68	-13.00	50.68	147	334	Vertical
5	9549.0000	33.16	-39.96	38.45	-63.60	-13.00	50.60	175	360	Vertical
6	11458.8000	30.03	-37.33	39.04	-63.52	-13.00	50.52	142	61	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	18.03	0.021552	±2.5	PASS
GSM850	190	VN	NT	16.57	0.019806	±2.5	PASS
GSM850	190	VH	NT	16.07	0.019209	±2.5	PASS
EGPRS850	190	VL	NT	33.50	0.040043	±2.5	PASS
EGPRS850	190	VN	NT	33.13	0.039601	±2.5	PASS
EGPRS850	190	VH	NT	32.90	0.039326	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	14.76	0.007851	PASS
GSM1900	661	VN	NT	12.50	0.006649	PASS
GSM1900	661	VH	NT	16.46	0.008755	PASS
EGPRS1900	661	VL	NT	27.97	0.014878	PASS
EGPRS1900	661	VN	NT	26.49	0.014090	PASS
EGPRS1900	661	VH	NT	25.82	0.013734	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	18.06	0.021587	±2.5	PASS
GSM850	190	NV	-20	17.95	0.021456	±2.5	PASS
GSM850	190	NV	-10	13.95	0.016675	±2.5	PASS
GSM850	190	NV	0	20.44	0.024432	±2.5	PASS
GSM850	190	NV	10	15.87	0.018970	±2.5	PASS
GSM850	190	NV	20	17.65	0.021097	±2.5	PASS
GSM850	190	NV	30	10.74	0.012838	±2.5	PASS
GSM850	190	NV	40	16.73	0.019998	±2.5	PASS
GSM850	190	NV	50	14.56	0.017404	±2.5	PASS
EGPRS850	190	NV	-30	31.57	0.037736	±2.5	PASS
EGPRS850	190	NV	-20	33.39	0.039912	±2.5	PASS
EGPRS850	190	NV	-10	32.85	0.039266	±2.5	PASS
EGPRS850	190	NV	0	31.86	0.038083	±2.5	PASS
EGPRS850	190	NV	10	32.93	0.039362	±2.5	PASS
EGPRS850	190	NV	20	32.21	0.038501	±2.5	PASS
EGPRS850	190	NV	30	32.40	0.038728	±2.5	PASS
EGPRS850	190	NV	40	31.17	0.037258	±2.5	PASS
EGPRS850	190	NV	50	30.06	0.035931	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	16.20	0.008617	PASS
GSM1900	661	NV	-20	10.80	0.005745	PASS
GSM1900	661	NV	-10	18.14	0.009649	PASS
GSM1900	661	NV	0	14.81	0.007878	PASS
GSM1900	661	NV	10	11.64	0.006191	PASS
GSM1900	661	NV	20	13.90	0.007394	PASS
GSM1900	661	NV	30	17.42	0.009266	PASS
GSM1900	661	NV	40	16.43	0.008739	PASS
GSM1900	661	NV	50	16.83	0.008952	PASS
EGPRS1900	661	NV	-30	26.50	0.014096	PASS
EGPRS1900	661	NV	-20	27.67	0.014718	PASS
EGPRS1900	661	NV	-10	29.19	0.015527	PASS
EGPRS1900	661	NV	0	25.08	0.013340	PASS
EGPRS1900	661	NV	10	28.61	0.015218	PASS
EGPRS1900	661	NV	20	27.96	0.014872	PASS
EGPRS1900	661	NV	30	25.22	0.013415	PASS
EGPRS1900	661	NV	40	25.77	0.013707	PASS
EGPRS1900	661	NV	50	24.64	0.013106	PASS

---End of Attachment---



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