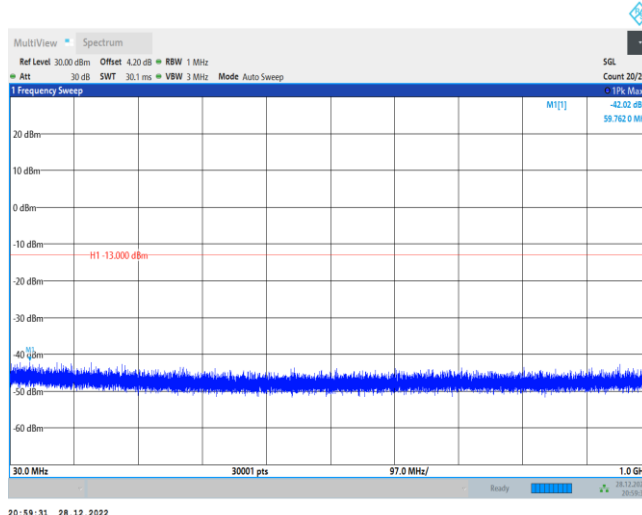


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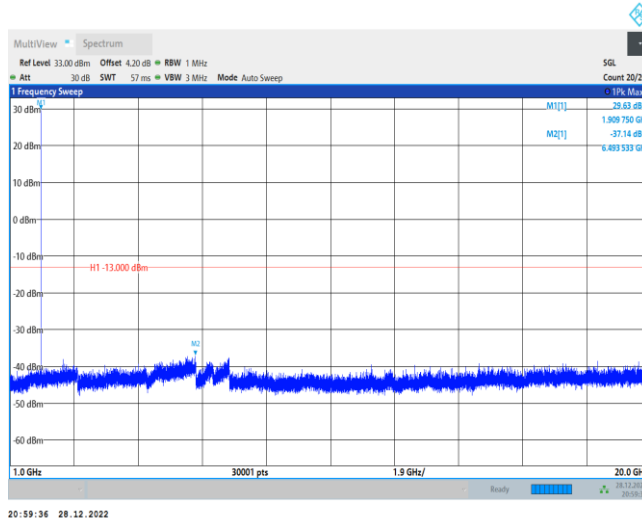
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### GSM1900-810-30~1000MHz



### GSM1900-810-1000~20000MHz



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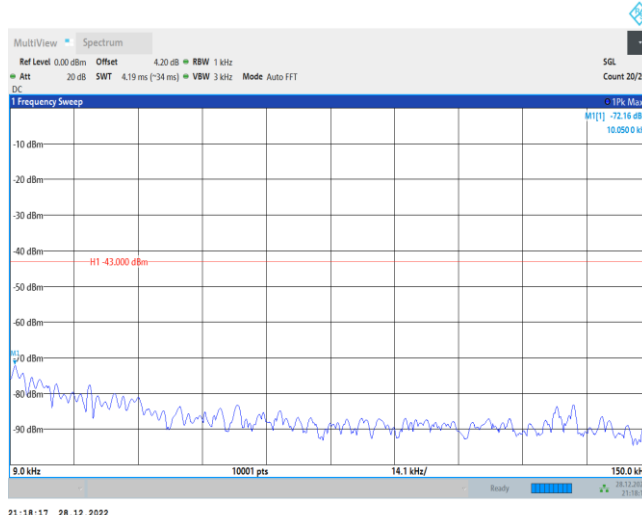
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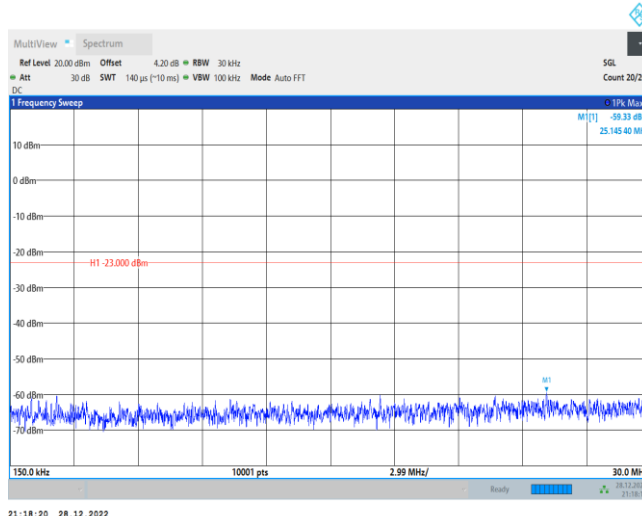
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## EGPRS1900-512-0.009~0.15MHz



## EGPRS1900-512-0.15~30MHz



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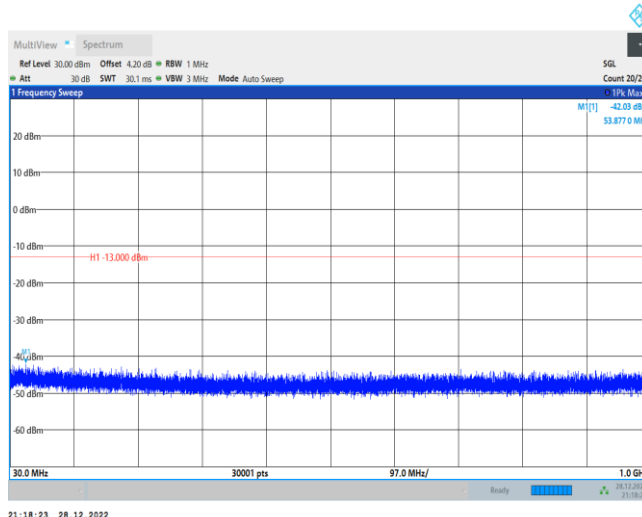
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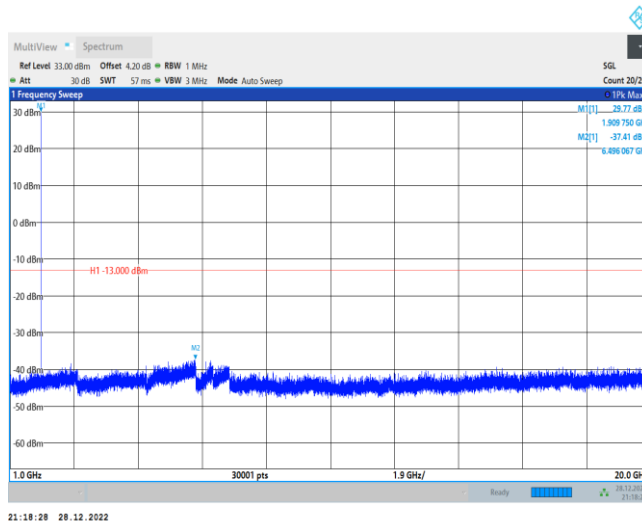
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### EGPRS1900-512-30~1000MHz



### EGPRS1900-512-1000~20000MHz



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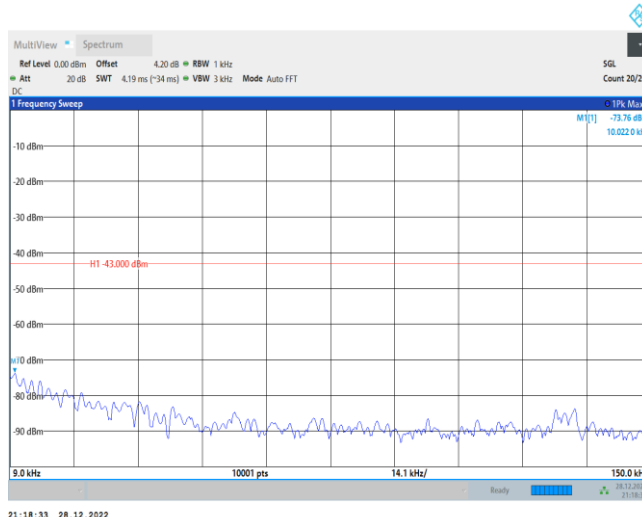
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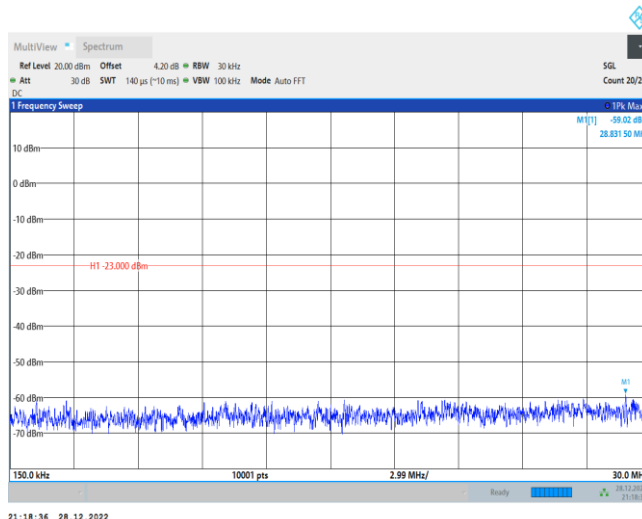
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### EGPRS1900-661-0.009~0.15MHz



### EGPRS1900-661-0.15~30MHz



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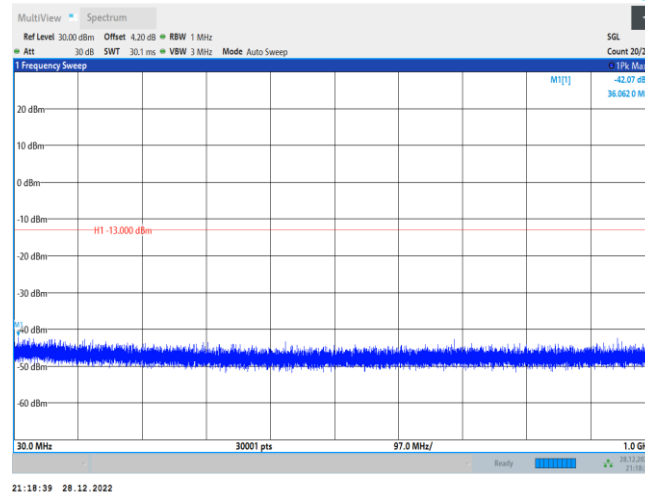
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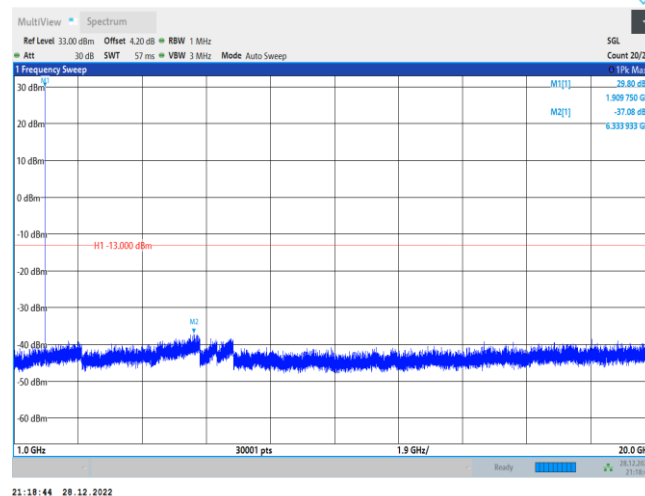
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### EGPRS1900-661-30~1000MHz



### EGPRS1900-661-1000~20000MHz



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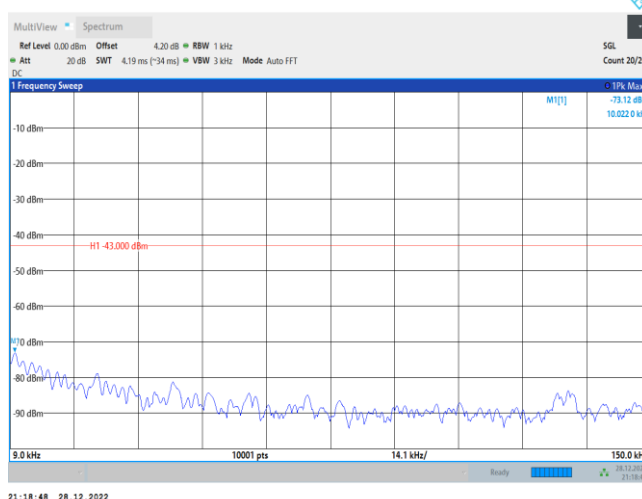
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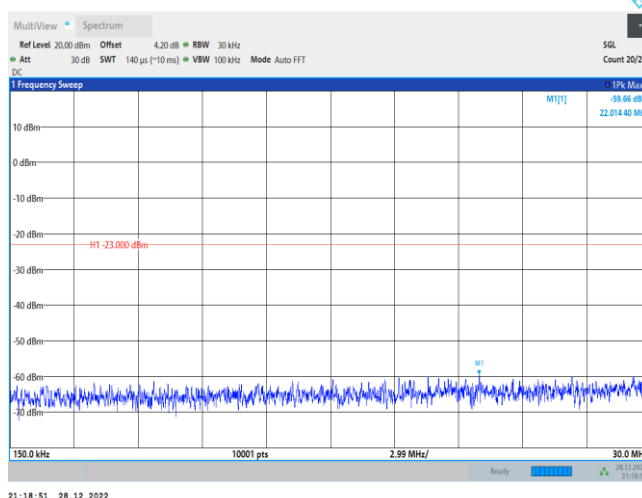
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### EGPRS1900-810-0.009~0.15MHz



### EGPRS1900-810-0.15~30MHz



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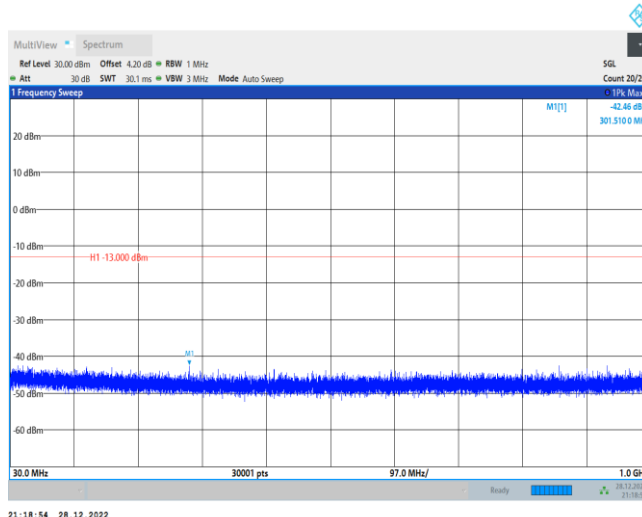


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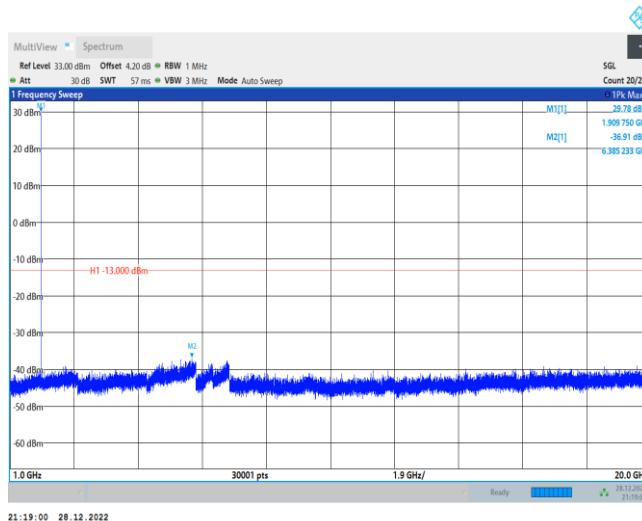
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### EGPRS1900-810-30~1000MHz



### EGPRS1900-810-1000~20000MHz



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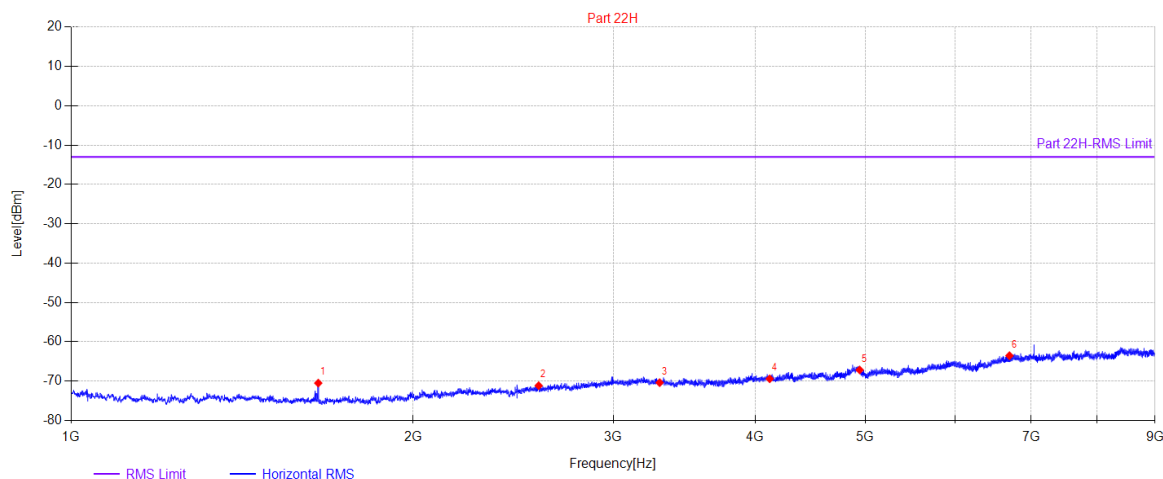
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### Field Strength of Spurious Radiation

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	1650.2857	47.62	-48.22	25.37	-70.49	-13.00	57.49	218	294	Horizontal
2	2580	43.06	-47.00	28.03	-71.16	-13.00	58.16	251	360	Horizontal
3	3296.8000	41.98	-46.67	29.56	-70.39	-13.00	57.39	198	38	Horizontal
4	4121.0000	40.78	-45.91	30.98	-69.41	-13.00	56.41	122	38	Horizontal
5	4945.2000	41.07	-45.69	32.73	-67.15	-13.00	54.15	136	160	Horizontal
6	6700	40.15	-44.06	35.64	-63.53	-13.00	50.53	251	213	Horizontal



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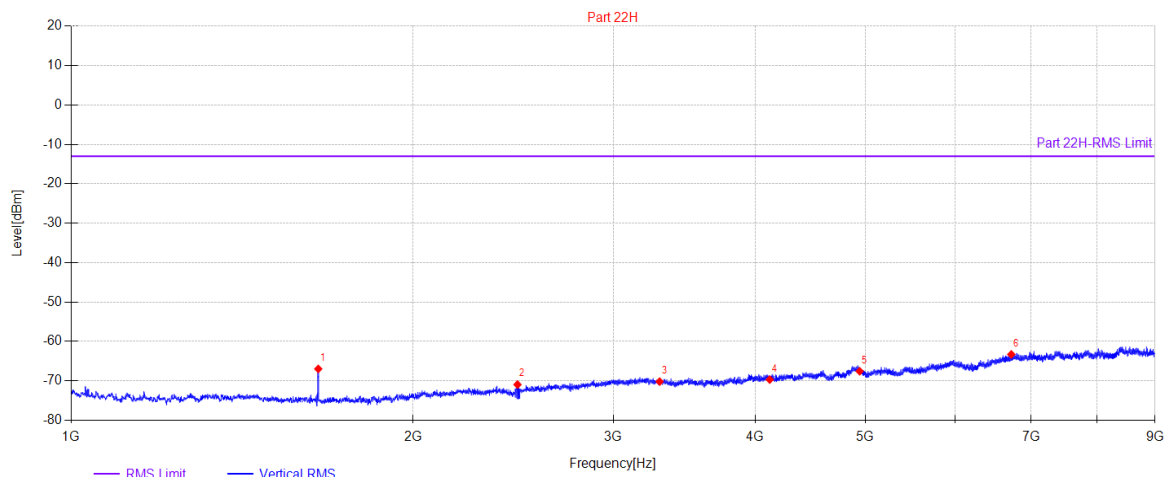
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## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.2857	51.15	-48.22	25.37	-66.96	-13.00	53.96	213	104	Vertical
2	2471.4286	43.97	-47.32	27.68	-70.94	-13.00	57.94	312	254	Vertical
3	3296.8000	42.19	-46.67	29.56	-70.18	-13.00	57.18	156	90	Vertical
4	4121.0000	40.51	-45.91	30.98	-69.68	-13.00	56.68	258	280	Vertical
5	4945.2000	40.66	-45.69	32.73	-67.56	-13.00	54.56	191	332	Vertical
6	6724.5714	40.37	-44.07	35.69	-63.28	-13.00	50.28	122	356	Vertical



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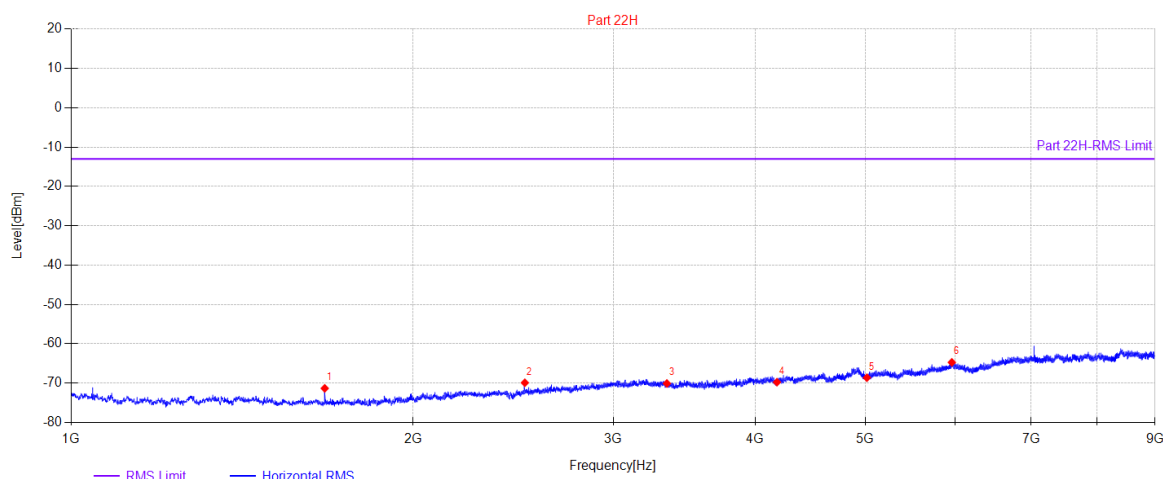
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Test Band = GSM850\_ TM1

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	1672	46.75	-48.19	25.38	-71.32	-13.00	58.32	214	324	Horizontal
2	2508.5714	44.80	-47.24	27.80	-69.90	-13.00	56.90	233	4	Horizontal
3	3345.6000	42.29	-46.62	29.50	-70.09	-13.00	57.09	261	359	Horizontal
4	4182.0000	40.39	-45.95	31.07	-69.75	-13.00	56.75	188	354	Horizontal
5	5018.4000	39.48	-45.73	32.89	-68.62	-13.00	55.62	198	311	Horizontal
6	5961.7143	41.12	-44.64	34.06	-64.72	-13.00	51.72	175	163	Horizontal



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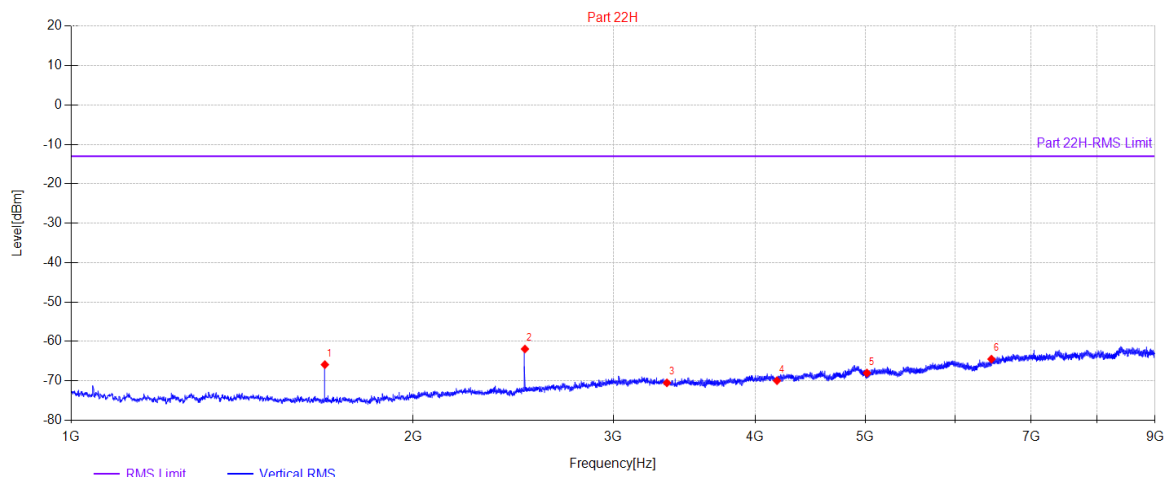
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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.5714	52.19	-48.19	25.38	-65.88	-13.00	52.88	256	13	Vertical
2	2509.1429	52.78	-47.24	27.80	-61.92	-13.00	48.92	132	76	Vertical
3	3345.6000	41.88	-46.62	29.50	-70.50	-13.00	57.50	148	0	Vertical
4	4182.0000	40.19	-45.95	31.07	-69.95	-13.00	56.95	175	130	Vertical
5	5018.4000	40.09	-45.73	32.89	-68.01	-13.00	55.01	149	225	Vertical
6	6460	40.59	-44.69	34.87	-64.49	-13.00	51.49	122	6	Vertical



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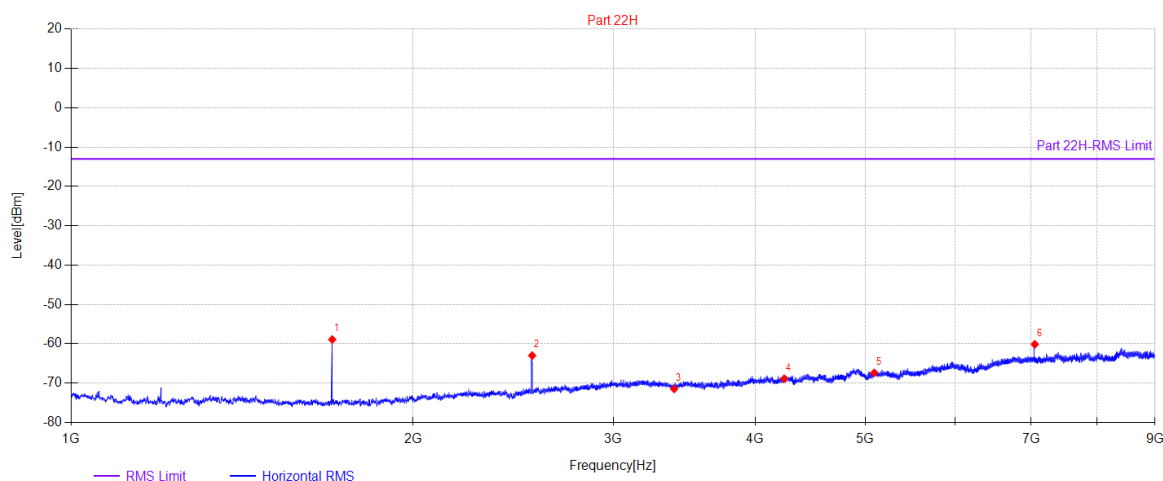
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Test Band = GSM850\_TM1

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	1697.6000	59.12	-48.16	25.39	-58.91	-13.00	45.91	171	360	Horizontal
2	2546.2857	51.46	-47.11	27.92	-62.99	-13.00	49.99	152	81	Horizontal
3	3395.2000	40.90	-46.55	29.44	-71.47	-13.00	58.47	168	346	Horizontal
4	4244.0000	41.08	-45.88	31.19	-68.87	-13.00	55.87	129	310	Horizontal
5	5092.8000	40.35	-45.41	32.93	-67.39	-13.00	54.39	148	358	Horizontal
6	7053.1429	42.83	-43.92	36.22	-60.13	-13.00	47.13	188	135	Horizontal



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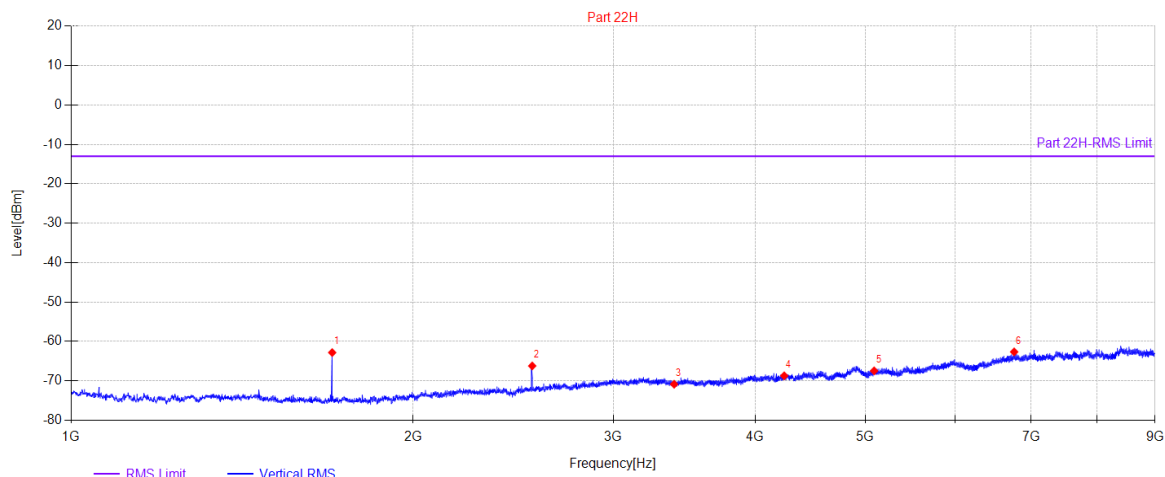
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### Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	55.21	-48.16	25.39	-62.82	-13.00	49.82	211	7	Vertical
2	2546.2857	48.24	-47.11	27.92	-66.21	-13.00	53.21	100	357	Vertical
3	3395.2000	41.52	-46.55	29.44	-70.85	-13.00	57.85	174	105	Vertical
4	4244.0000	41.23	-45.88	31.19	-68.72	-13.00	55.72	128	175	Vertical
5	5092.8000	40.28	-45.41	32.93	-67.46	-13.00	54.46	195	0	Vertical
6	6764	40.94	-44.10	35.77	-62.65	-13.00	49.65	105	3	Vertical



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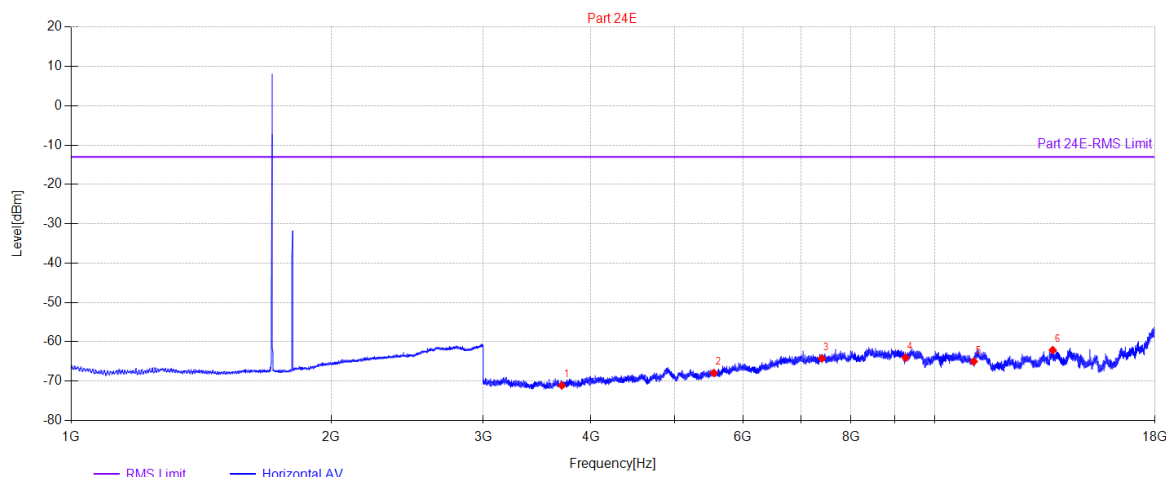
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Test Band = GSM1900\_ TM1

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	39.70	-45.50	29.97	-71.09	-13.00	58.09	248	193	Horizontal
2	5550.6000	39.52	-45.15	32.97	-67.93	-13.00	54.93	175	178	Horizontal
3	7400.8000	37.94	-43.41	36.49	-64.24	-13.00	51.24	149	207	Horizontal
4	9251.0000	33.08	-40.23	38.38	-64.04	-13.00	51.04	162	24	Horizontal
5	11101.2000	29.13	-37.96	39.09	-65.00	-13.00	52.00	155	193	Horizontal
6	13702.5	29.24	-36.17	40.05	-62.13	-13.00	49.13	130	55	Horizontal



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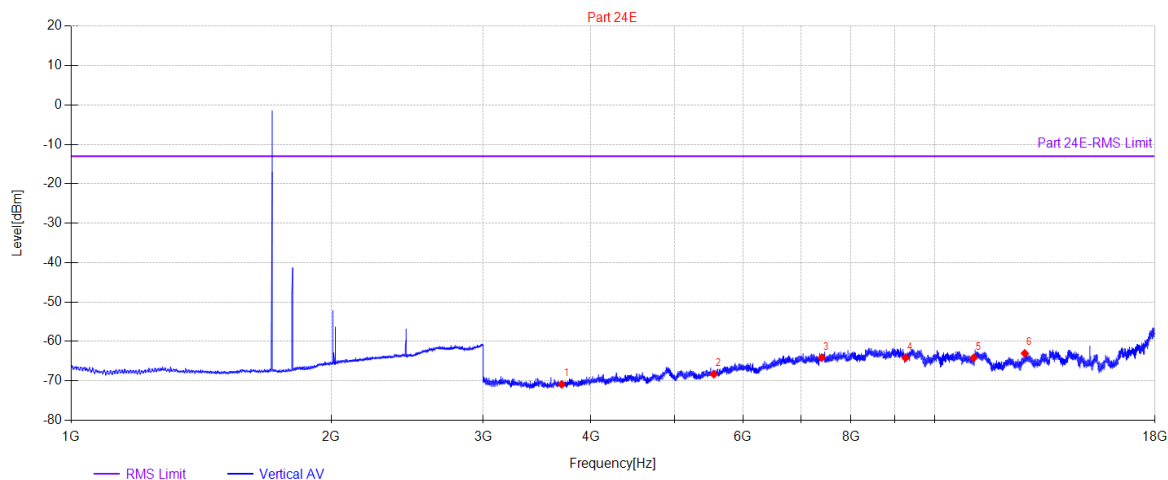
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### Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	39.92	-45.50	29.97	-70.87	-13.00	57.87	284	86	Vertical
2	5550.6000	39.14	-45.15	32.97	-68.31	-13.00	55.31	175	2	Vertical
3	7400.8000	38.05	-43.41	36.49	-64.13	-13.00	51.13	145	163	Vertical
4	9251.0000	32.96	-40.23	38.38	-64.16	-13.00	51.16	261	163	Vertical
5	11101.2000	29.98	-37.96	39.09	-64.15	-13.00	51.15	299	208	Vertical
6	12717.75	29.46	-36.71	39.49	-63.02	-13.00	50.02	125	222	Vertical



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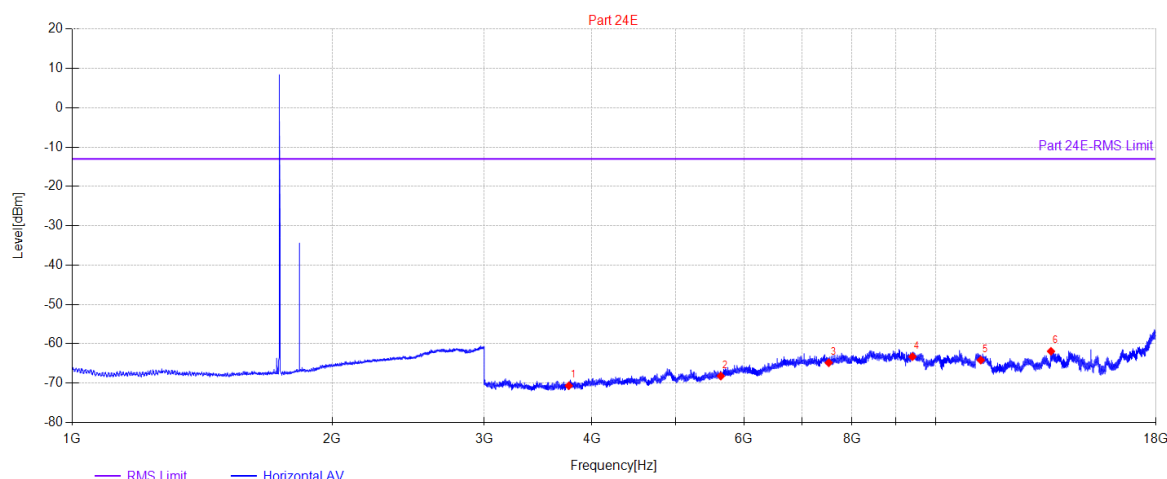
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Test Band = GSM1900\_ TM1

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	40.16	-45.75	30.19	-70.67	-13.00	57.67	168	130	Horizontal
2	5640.0000	38.87	-44.98	33.17	-68.21	-13.00	55.21	148	255	Horizontal
3	7520.0000	37.12	-43.10	36.43	-64.81	-13.00	51.81	192	24	Horizontal
4	9400.0000	33.32	-39.83	38.49	-63.28	-13.00	50.28	174	193	Horizontal
5	11280.0000	29.41	-37.41	39.11	-64.15	-13.00	51.15	125	115	Horizontal
6	13602.75	29.28	-36.08	40.15	-61.91	-13.00	48.91	165	0	Horizontal



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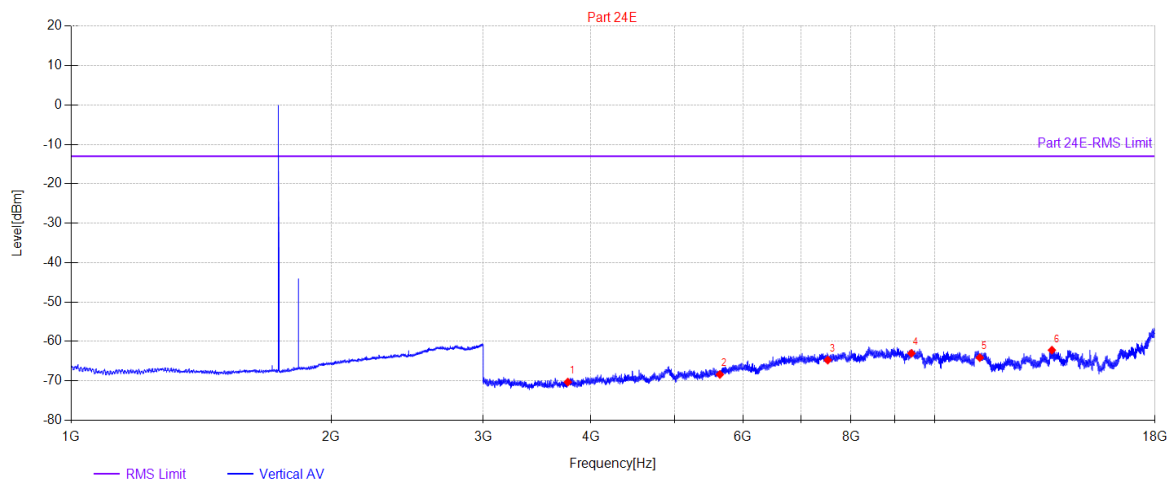
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## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	40.52	-45.75	30.19	-70.31	-13.00	57.31	258	70	Vertical
2	5640.0000	38.70	-44.98	33.17	-68.38	-13.00	55.38	147	282	Vertical
3	7520.0000	37.19	-43.10	36.43	-64.74	-13.00	51.74	169	1	Vertical
4	9400.0000	33.59	-39.83	38.49	-63.01	-13.00	50.01	258	356	Vertical
5	11280.0000	29.45	-37.41	39.11	-64.11	-13.00	51.11	142	114	Vertical
6	13671	29.11	-36.14	40.08	-62.20	-13.00	49.20	136	12	Vertical



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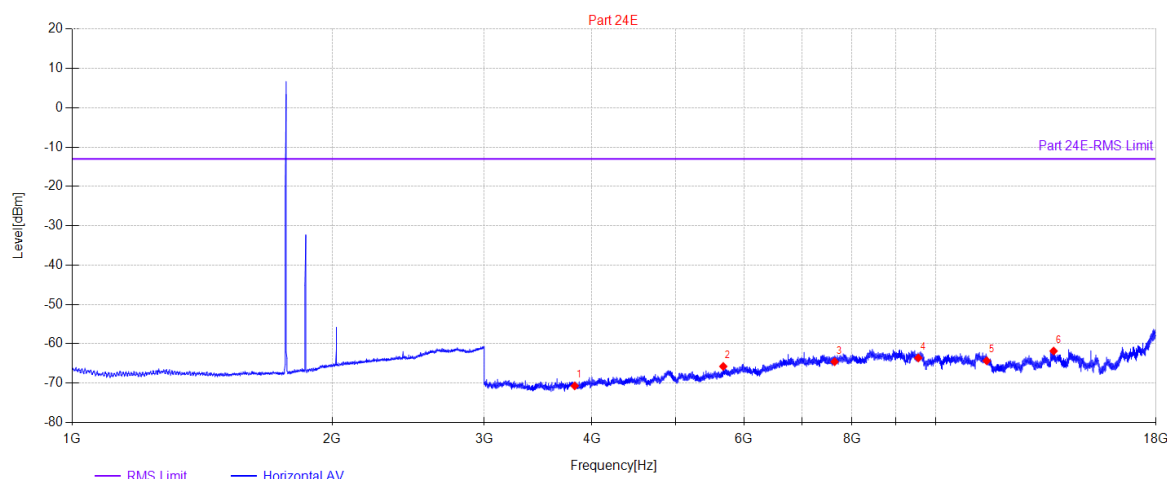
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Test Band = GSM1900\_ TM1

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	40.17	-45.99	30.38	-70.70	-13.00	57.70	256	0	Horizontal
2	5676.75	41.11	-44.90	33.30	-65.75	-13.00	52.75	251	252	Horizontal
3	7639.2000	37.24	-43.01	36.47	-64.56	-13.00	51.56	148	83	Horizontal
4	9549.0000	33.16	-39.96	38.45	-63.60	-13.00	50.60	175	21	Horizontal
5	11458.8000	29.23	-37.33	39.04	-64.32	-13.00	51.32	136	206	Horizontal
6	13698	29.52	-36.16	40.06	-61.84	-13.00	48.84	259	344	Horizontal



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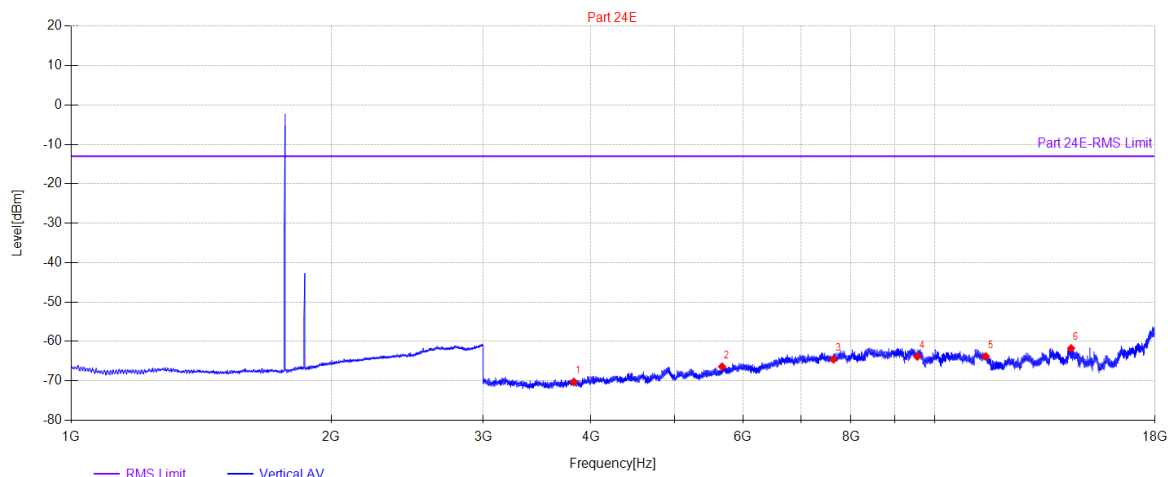
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### Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	40.60	-45.99	30.38	-70.27	-13.00	57.27	247	116	Vertical
2	5673	40.49	-44.91	33.29	-66.39	-13.00	53.39	265	191	Vertical
3	7639.2000	37.26	-43.01	36.47	-64.54	-13.00	51.54	123	191	Vertical
4	9549.0000	32.94	-39.96	38.45	-63.82	-13.00	50.82	210	356	Vertical
5	11458.8000	29.76	-37.33	39.04	-63.79	-13.00	50.79	230	68	Vertical
6	14390.25	28.35	-34.93	40.09	-61.76	-13.00	48.76	198	0	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	3.23	0.003861	±2.5	PASS
GSM850	190	VN	NT	8.84	0.010567	±2.5	PASS
GSM850	190	VH	NT	9.47	0.011320	±2.5	PASS
EGPRS850	190	VL	NT	30.98	0.037031	±2.5	PASS
EGPRS850	190	VN	NT	25.94	0.031006	±2.5	PASS
EGPRS850	190	VH	NT	24.18	0.028903	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	24.63	0.013101	PASS
GSM1900	661	VN	NT	16.99	0.009037	PASS
GSM1900	661	VH	NT	14.19	0.007548	PASS
EGPRS1900	661	VL	NT	20.79	0.011059	PASS
EGPRS1900	661	VN	NT	31.93	0.016984	PASS
EGPRS1900	661	VH	NT	28.02	0.014904	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	4.99	0.005965	±2.5	PASS
GSM850	190	NV	-20	11.11	0.013280	±2.5	PASS
GSM850	190	NV	-10	7.32	0.008750	±2.5	PASS
GSM850	190	NV	0	2.50	0.002988	±2.5	PASS
GSM850	190	NV	10	8.40	0.010041	±2.5	PASS
GSM850	190	NV	20	4.84	0.005785	±2.5	PASS
GSM850	190	NV	30	10.89	0.013017	±2.5	PASS
GSM850	190	NV	40	8.27	0.009885	±2.5	PASS
GSM850	190	NV	50	5.03	0.006012	±2.5	PASS
EGPRS850	190	NV	-30	29.07	0.034748	±2.5	PASS
EGPRS850	190	NV	-20	33.47	0.040007	±2.5	PASS
EGPRS850	190	NV	-10	26.64	0.031843	±2.5	PASS
EGPRS850	190	NV	0	31.25	0.037354	±2.5	PASS
EGPRS850	190	NV	10	23.72	0.028353	±2.5	PASS
EGPRS850	190	NV	20	27.65	0.033050	±2.5	PASS
EGPRS850	190	NV	30	31.13	0.037210	±2.5	PASS
EGPRS850	190	NV	40	23.39	0.027958	±2.5	PASS
EGPRS850	190	NV	50	25.62	0.030624	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	22.37	0.011899	PASS
GSM1900	661	NV	-20	11.82	0.006287	PASS
GSM1900	661	NV	-10	19.21	0.010218	PASS
GSM1900	661	NV	0	8.09	0.004303	PASS
GSM1900	661	NV	10	16.30	0.008670	PASS
GSM1900	661	NV	20	24.20	0.012872	PASS
GSM1900	661	NV	30	13.74	0.007309	PASS
GSM1900	661	NV	40	23.02	0.012245	PASS
GSM1900	661	NV	50	14.15	0.007527	PASS
EGPRS1900	661	NV	-30	34.63	0.018420	PASS
EGPRS1900	661	NV	-20	25.58	0.013606	PASS
EGPRS1900	661	NV	-10	29.50	0.015691	PASS
EGPRS1900	661	NV	0	36.93	0.019644	PASS
EGPRS1900	661	NV	10	29.06	0.015457	PASS
EGPRS1900	661	NV	20	21.17	0.011261	PASS
EGPRS1900	661	NV	30	28.76	0.015298	PASS
EGPRS1900	661	NV	40	37.41	0.019899	PASS
EGPRS1900	661	NV	50	21.64	0.011511	PASS

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