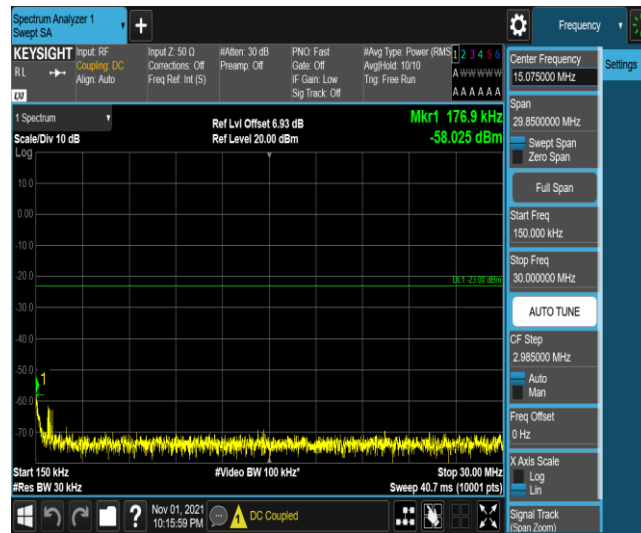
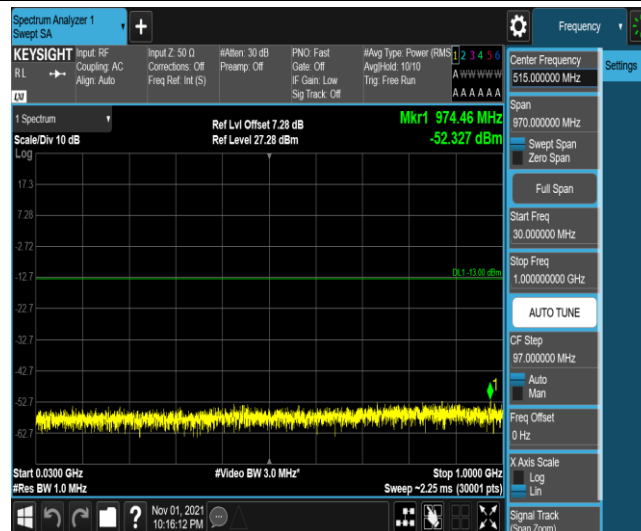




GPRS1900-MCH-0-30~1000MHz



GPRS1900-MCH-0-1000~3000MHz



GPRS1900-MCH-0-3000~20000MHz



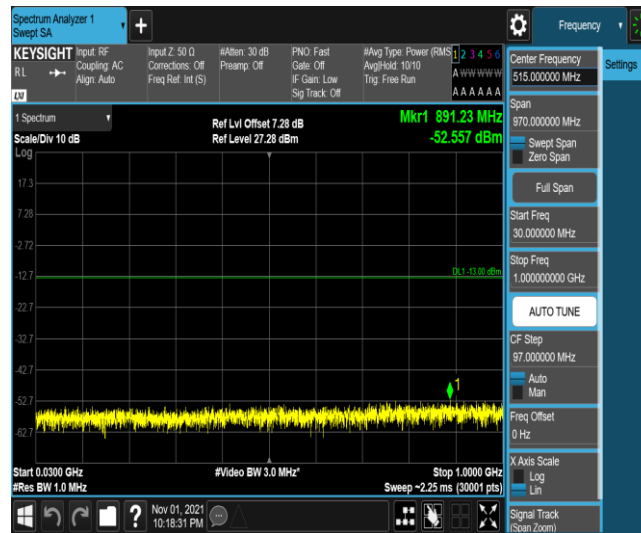
GPRS1900-HCH-0-0.009~0.15MHz



GPRS1900-HCH-0-0.15~30MHz



GPRS1900-HCH-0-30~1000MHz



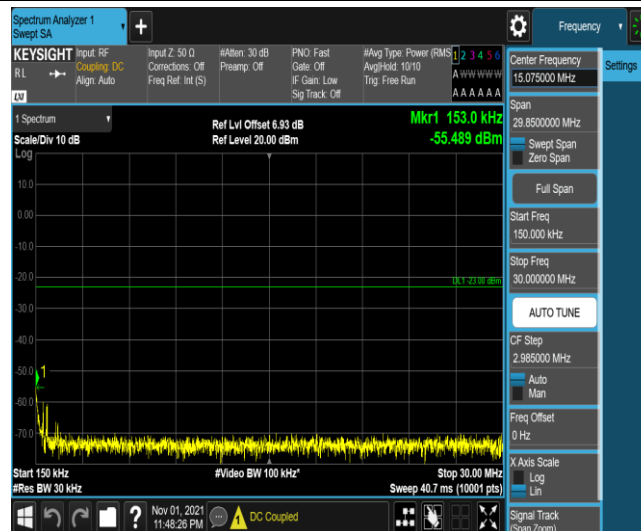
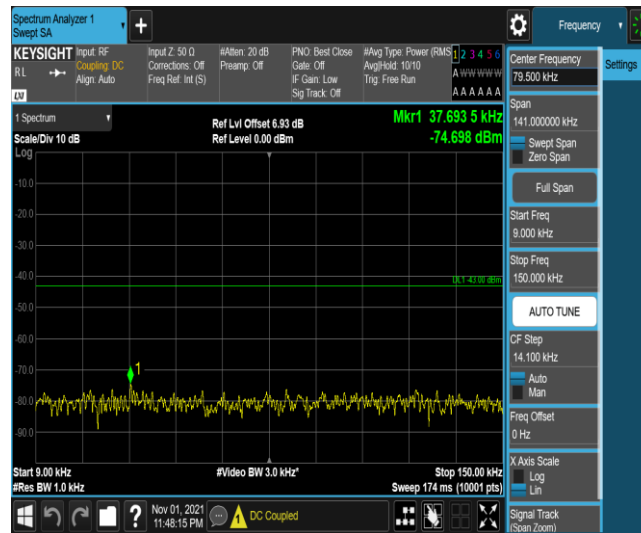
GPRS1900-HCH-0-1000~3000MHz



GPRS1900-HCH-0-3000~20000MHz



EGPRS1900-LCH-2-0.009~0.15MHz





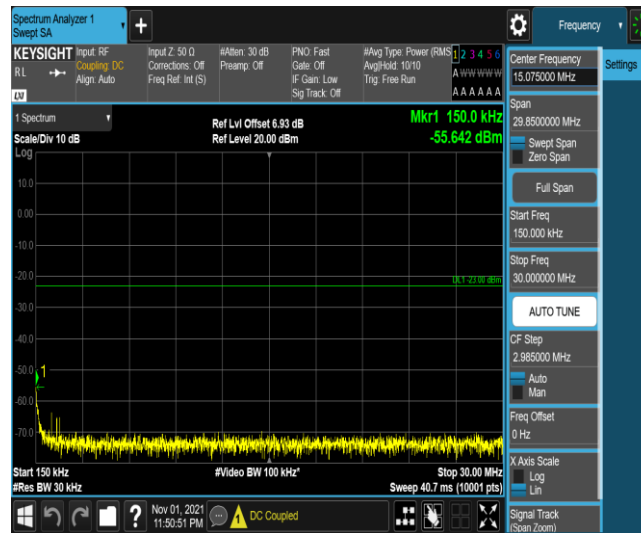
EGPRS1900-LCH-2-3000~20000MHz



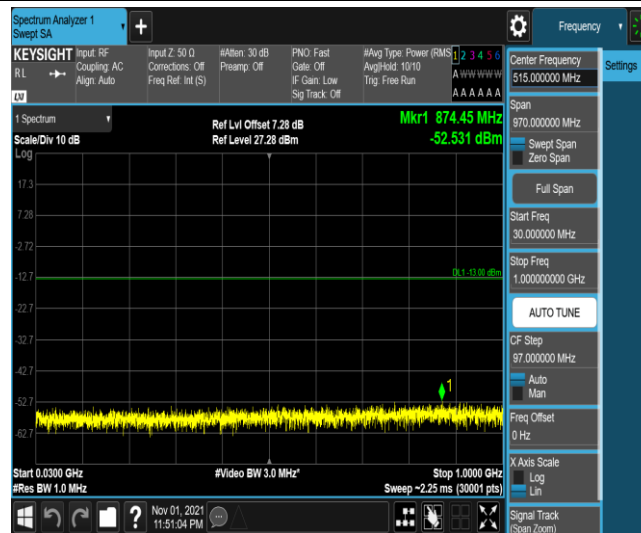
EGPRS1900-MCH-2-0.009~0.15MHz



EGPRS1900-MCH-2-0.15~30MHz



EGPRS1900-MCH-2-30~1000MHz



EGPRS1900-MCH-2-1000~3000MHz



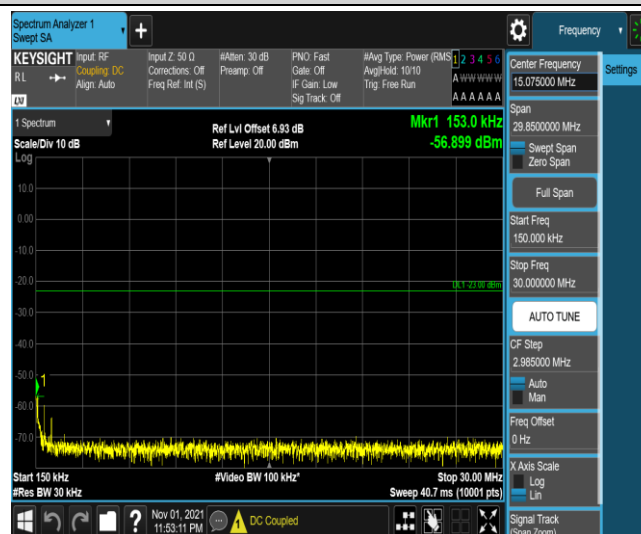
EGPRS1900-MCH-2-3000~20000MHz



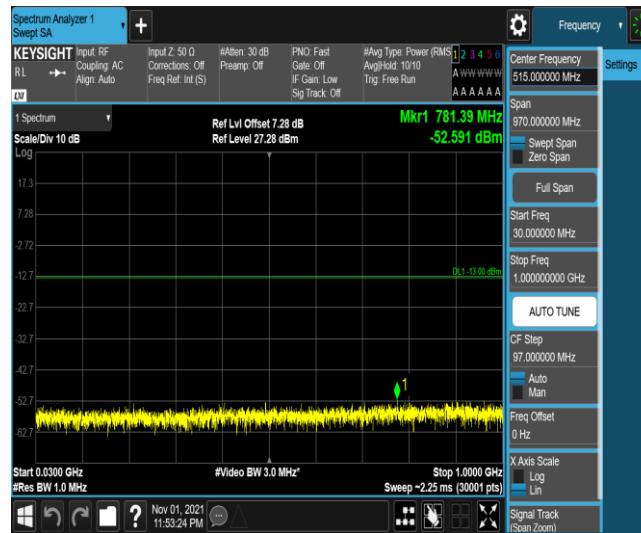
EGPRS1900-HCH-2-0.009~0.15MHz



EGPRS1900-HCH-2-0.15~30MHz



EGPRS1900-HCH-2-30~1000MHz



EGPRS1900-HCH-2-1000~3000MHz



EGPRS1900-HCH-2-3000~20000MHz



Appendix G: Field Strength of Spurious Radiation

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. The emissions were very low against the limit in the frequency range 9kHz to 30MHz and 18 GHz ~ 20 GHz.

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

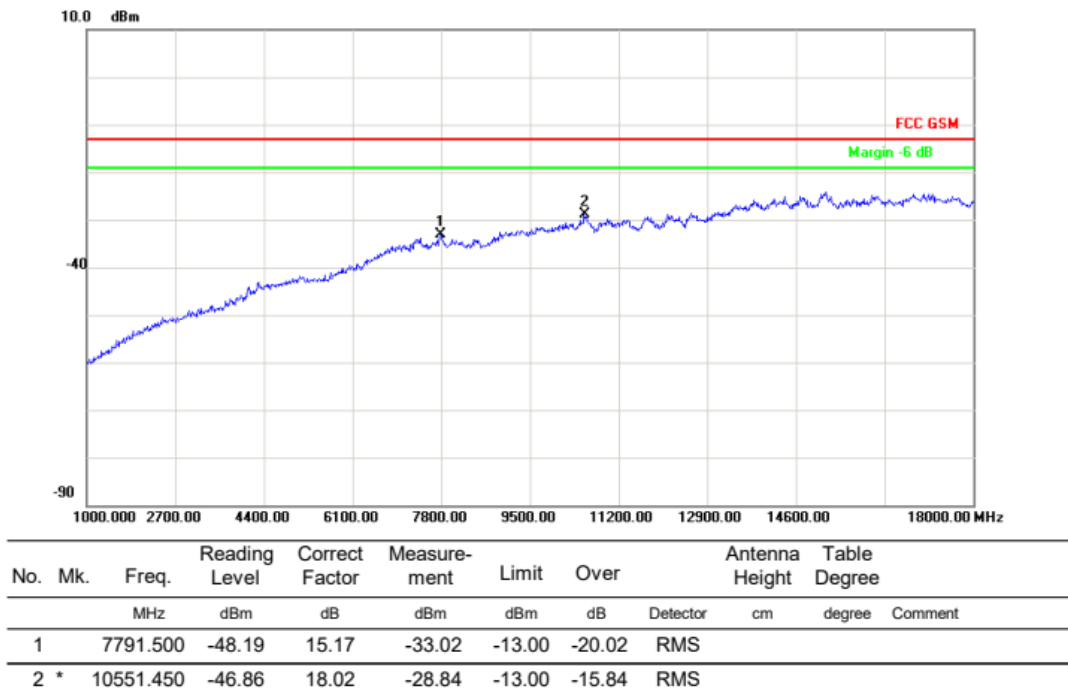
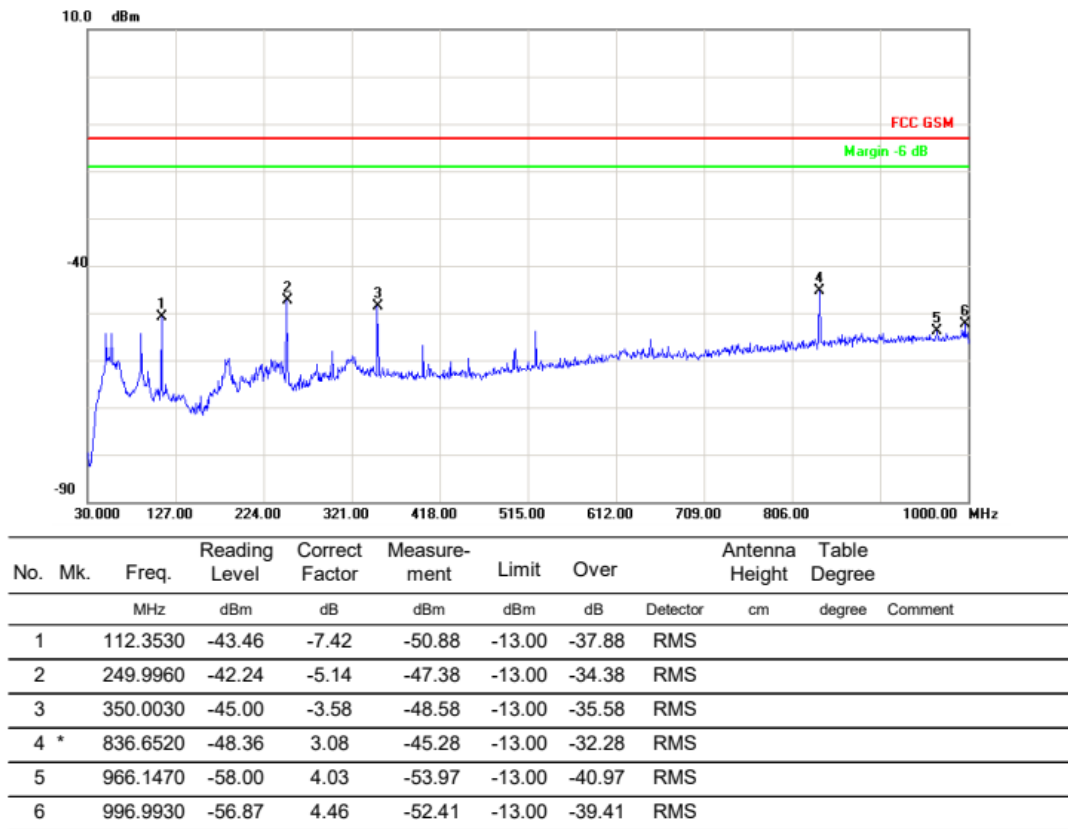
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Test Plots

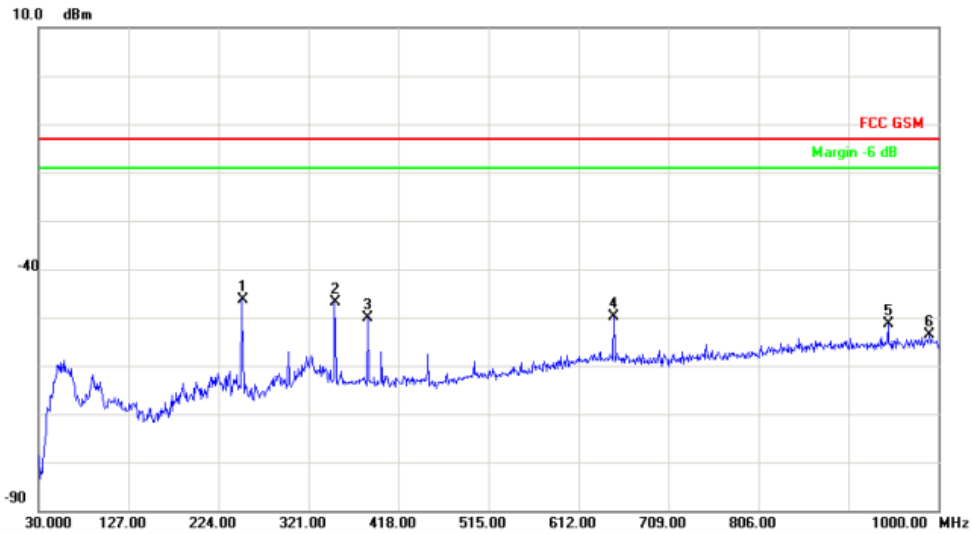
Test Band = GSM850

Test Mode = GSM/TM1

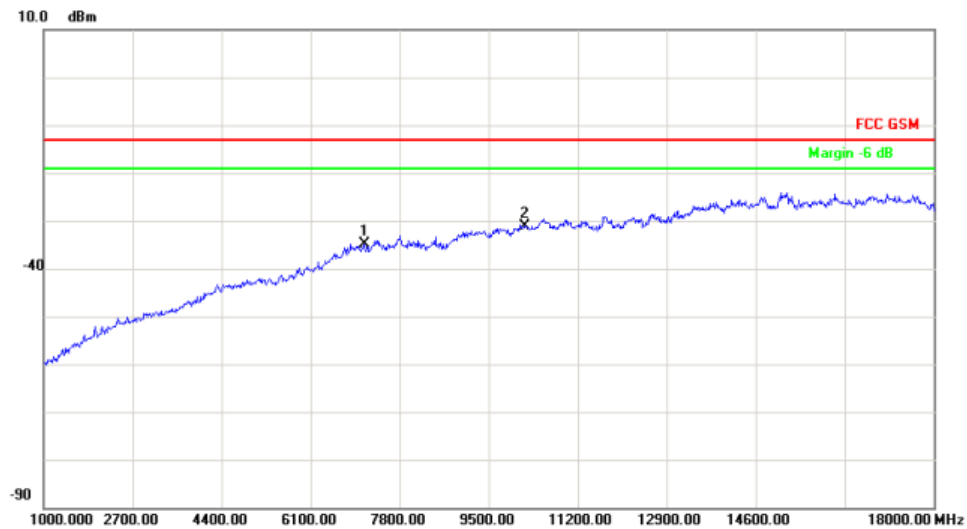


Test Band = GSM1900

Test Mode = GSM/TM1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1	*	249.9960	-41.35	-5.14	-46.49	-13.00	-33.49	RMS		
2		350.0030	-43.36	-3.58	-46.94	-13.00	-33.94	RMS		
3		385.2140	-46.90	-3.28	-50.18	-13.00	-37.18	RMS		
4		650.0725	-51.12	1.31	-49.81	-13.00	-36.81	RMS		
5		945.8255	-55.09	3.80	-51.29	-13.00	-38.29	RMS		
6		990.8335	-58.10	4.37	-53.73	-13.00	-40.73	RMS		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	cm	degree	Comment
1		7125.950	-48.89	13.90	-34.99	-13.00	-21.99	RMS		
2	*	10185.100	-48.86	17.80	-31.06	-13.00	-18.06	RMS		

Appendix H: Frequency Stability

Test Result

Frequency Error vs. Voltage:

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	LCH	VL	NT	9.17	0.011126	±2.5	PASS
GPRS850	LCH	VN	NT	4.68	0.005678	±2.5	PASS
GPRS850	LCH	VH	NT	10.17	0.012339	±2.5	PASS
GPRS850	MCH	VL	NT	4.65	0.005558	±2.5	PASS
GPRS850	MCH	VN	NT	10.75	0.012850	±2.5	PASS
GPRS850	MCH	VH	NT	6.20	0.007411	±2.5	PASS
GPRS850	HCH	VL	NT	4.71	0.005549	±2.5	PASS
GPRS850	HCH	VN	NT	8.10	0.009543	±2.5	PASS
GPRS850	HCH	VH	NT	7.46	0.008789	±2.5	PASS
EGPRS850	LCH	VL	NT	8.04	0.009755	±2.5	PASS
EGPRS850	LCH	VN	NT	15.08	0.018297	±2.5	PASS
EGPRS850	LCH	VH	NT	14.82	0.017981	±2.5	PASS
EGPRS850	MCH	VL	NT	8.52	0.010184	±2.5	PASS
EGPRS850	MCH	VN	NT	9.98	0.011929	±2.5	PASS
EGPRS850	MCH	VH	NT	6.49	0.007758	±2.5	PASS
EGPRS850	HCH	VL	NT	7.26	0.008553	±2.5	PASS
EGPRS850	HCH	VN	NT	11.78	0.013878	±2.5	PASS
EGPRS850	HCH	VH	NT	8.46	0.009967	±2.5	PASS
GPRS1900	LCH	VN	NT	14.11	0.007626	±2.5	PASS
GPRS1900	LCH	VH	NT	9.40	0.005081	±2.5	PASS
GPRS1900	MCH	VL	NT	9.20	0.004894	±2.5	PASS
GPRS1900	MCH	VN	NT	2.20	0.001170	±2.5	PASS
GPRS1900	MCH	VH	NT	10.36	0.005511	±2.5	PASS
GPRS1900	HCH	VL	NT	12.56	0.006577	±2.5	PASS
GPRS1900	HCH	VN	NT	9.10	0.004765	±2.5	PASS
GPRS1900	HCH	VH	NT	1.23	0.000644	±2.5	PASS
EGPRS1900	LCH	VL	NT	6.07	0.003281	±2.5	PASS
EGPRS1900	LCH	VN	NT	22.63	0.012231	±2.5	PASS
EGPRS1900	LCH	VH	NT	5.07	0.002740	±2.5	PASS
EGPRS1900	MCH	VL	NT	9.65	0.005133	±2.5	PASS
EGPRS1900	MCH	VN	NT	18.89	0.010048	±2.5	PASS
EGPRS1900	MCH	VH	NT	12.95	0.006888	±2.5	PASS
EGPRS1900	HCH	VL	NT	3.49	0.001827	±2.5	PASS
EGPRS1900	HCH	VN	NT	9.62	0.005037	±2.5	PASS
EGPRS1900	HCH	VH	NT	4.04	0.002115	±2.5	PASS

Frequency Error vs. Temperature:

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	LCH	NV	0	27.88	0.033827	±2.5	PASS
GPRS850	LCH	NV	10	27.53	0.033402	±2.5	PASS
GPRS850	LCH	NV	20	25.96	0.031497	±2.5	PASS
GPRS850	LCH	NV	30	25.90	0.031424	±2.5	PASS
GPRS850	LCH	NV	40	26.18	0.031764	±2.5	PASS
GPRS850	LCH	NV	50	25.84	0.031352	±2.5	PASS
GPRS850	MCH	NV	0	27.45	0.032811	±2.5	PASS
GPRS850	MCH	NV	10	28.88	0.034521	±2.5	PASS
GPRS850	MCH	NV	20	27.29	0.032620	±2.5	PASS
GPRS850	MCH	NV	30	25.90	0.030959	±2.5	PASS
GPRS850	MCH	NV	40	27.66	0.033062	±2.5	PASS
GPRS850	MCH	NV	50	28.33	0.033863	±2.5	PASS
GPRS850	HCH	NV	0	28.99	0.034154	±2.5	PASS
GPRS850	HCH	NV	10	29.89	0.035214	±2.5	PASS
GPRS850	HCH	NV	20	28.59	0.033683	±2.5	PASS
GPRS850	HCH	NV	30	30.27	0.035662	±2.5	PASS
GPRS850	HCH	NV	40	28.31	0.033353	±2.5	PASS
GPRS850	HCH	NV	50	30.17	0.035544	±2.5	PASS
EGPRS850	LCH	NV	0	25.86	0.031376	±2.5	PASS
EGPRS850	LCH	NV	10	30.68	0.037224	±2.5	PASS
EGPRS850	LCH	NV	20	29.15	0.035368	±2.5	PASS
EGPRS850	LCH	NV	30	28.89	0.035052	±2.5	PASS
EGPRS850	LCH	NV	40	32.05	0.038886	±2.5	PASS
EGPRS850	LCH	NV	50	28.33	0.034373	±2.5	PASS
EGPRS850	MCH	NV	0	27.25	0.032572	±2.5	PASS
EGPRS850	MCH	NV	10	28.51	0.034078	±2.5	PASS
EGPRS850	MCH	NV	20	29.87	0.035704	±2.5	PASS
EGPRS850	MCH	NV	30	30.21	0.036110	±2.5	PASS
EGPRS850	MCH	NV	40	27.09	0.032381	±2.5	PASS
EGPRS850	MCH	NV	50	29.56	0.035333	±2.5	PASS
EGPRS850	HCH	NV	0	23.86	0.028110	±2.5	PASS
EGPRS850	HCH	NV	10	25.14	0.029618	±2.5	PASS
EGPRS850	HCH	NV	20	23.86	0.028110	±2.5	PASS
EGPRS850	HCH	NV	30	22.71	0.026755	±2.5	PASS
EGPRS850	HCH	NV	40	24.24	0.028558	±2.5	PASS
EGPRS850	HCH	NV	50	26.60	0.031338	±2.5	PASS
GPRS1900	LCH	NV	0	18.60	0.010053	±2.5	PASS
GPRS1900	LCH	NV	10	25.46	0.013761	±2.5	PASS
GPRS1900	LCH	NV	20	22.72	0.012280	±2.5	PASS

GPRS1900	LCH	NV	30	24.50	0.013242	±2.5	PASS
GPRS1900	LCH	NV	40	24.37	0.013172	±2.5	PASS
GPRS1900	LCH	NV	50	22.59	0.012209	±2.5	PASS
GPRS1900	MCH	NV	0	27.82	0.014798	±2.5	PASS
GPRS1900	MCH	NV	10	29.47	0.015676	±2.5	PASS
GPRS1900	MCH	NV	20	27.08	0.014404	±2.5	PASS
GPRS1900	MCH	NV	30	27.44	0.014596	±2.5	PASS
GPRS1900	MCH	NV	40	25.50	0.013564	±2.5	PASS
GPRS1900	MCH	NV	50	28.65	0.015239	±2.5	PASS
GPRS1900	HCH	NV	0	25.58	0.013394	±2.5	PASS
GPRS1900	HCH	NV	10	26.85	0.014059	±2.5	PASS
GPRS1900	HCH	NV	20	26.48	0.013865	±2.5	PASS
GPRS1900	HCH	NV	30	26.63	0.013944	±2.5	PASS
GPRS1900	HCH	NV	40	25.75	0.013483	±2.5	PASS
GPRS1900	HCH	NV	50	27.96	0.014640	±2.5	PASS
EGPRS1900	LCH	NV	0	18.43	0.009961	±2.5	PASS
EGPRS1900	LCH	NV	10	13.57	0.007334	±2.5	PASS
EGPRS1900	LCH	NV	20	15.01	0.008113	±2.5	PASS
EGPRS1900	LCH	NV	30	14.19	0.007669	±2.5	PASS
EGPRS1900	LCH	NV	40	15.86	0.008572	±2.5	PASS
EGPRS1900	LCH	NV	50	16.98	0.009177	±2.5	PASS
EGPRS1900	MCH	NV	0	15.82	0.008415	±2.5	PASS
EGPRS1900	MCH	NV	10	18.20	0.009681	±2.5	PASS
EGPRS1900	MCH	NV	20	18.44	0.009809	±2.5	PASS
EGPRS1900	MCH	NV	30	18.44	0.009809	±2.5	PASS
EGPRS1900	MCH	NV	40	16.64	0.008851	±2.5	PASS
EGPRS1900	MCH	NV	50	15.81	0.008410	±2.5	PASS
EGPRS1900	HCH	NV	0	17.03	0.008917	±2.5	PASS
EGPRS1900	HCH	NV	10	18.52	0.009697	±2.5	PASS
EGPRS1900	HCH	NV	20	20.25	0.010603	±2.5	PASS
EGPRS1900	HCH	NV	30	21.78	0.011404	±2.5	PASS
EGPRS1900	HCH	NV	40	16.75	0.008771	±2.5	PASS
EGPRS1900	HCH	NV	50	21.18	0.011090	±2.5	PASS

END