

Frequency Stability

GPRS

GPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.0	-30	-30.19	±2060.5	22.15	±2091.5	30.25	±2122	Pass
	-20	17.27		-29.22		-40.1		
	-10	-19.21		-28.15		-26.38		
	0	-18.92		-24.6		-31.45		
	+10	-28.09		-32.09		-25.57		
	+20	-13.79		-26.6		-27.73		
	+25	-22.57		-24.02		-31.28		
	+30	-14.75		-22.34		-40.33		
	+40	-31.16		-17.85		-28.61		
	+50	-17.6		-23.34		-30.83		
4.2	+25	18.95		-21.57		-27.35		
2.8	+25	-32.54		-20.02		-29.35		

GPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.0	-30	-62.63	±4625.5	35.45	±4700.0	-48.33	±4774.5	Pass
	-20	-71.58		40.87		-54.76		
	-10	-57.69		-57.57		-40.87		
	0	-41.23		-45.07		-46.59		
	+10	-29.12		-36.81		-69.54		
	+20	-42.94		-40.62		-51.46		
	+25	-47.11		-45.23		-41.78		
	+30	-37.48		-52.11		-40.36		
	+40	-40.78		-42.55		-44.01		
	+50	-48.3		-47.2		53.11		
4.2	+25	-46.01		-54.08		41.55		
2.8	+25	-42.62		-51.82		-52.98		

EGPRS

EGPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.0	-30	-19.76	±2060.5	-20.34	±2091.5	-25.41	±2122	Pass
	-20	-13.72		-32.32		17.85		
	-10	-16.47		-19.24		-18.66		
	0	-18.89		-22.02		-25.73		
	+10	-23.6		-21.05		-17.76		
	+20	16.34		-26.15		-27.15		
	+25	-24.86		-15.34		-32.32		
	+30	-12.37		-19.24		-18.89		
	+40	-22.05		-24.24		-25.25		
	+50	-19.92		-26.18		-15.69		
4.2	+25	-35.45		-21.47		-21.7		
2.8	+25	-23.73		14.01		22.28		

EGPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.0	-30	33.48	±4625.5	43.75	±4700.0	-28.28	±4774.5	Pass
	-20	-44.36		-38.07		-35.48		
	-10	-31.77		-30.15		-37.35		
	0	-33.32		37.1		-31.7		
	+10	-54.53		-36.29		-38.29		
	+20	47.82		-28.93		47.46		
	+25	-62.63		-49.56		-50.98		
	+30	30.03		-42.26		-34.67		
	+40	-51.59		-43.52		-51.88		
	+50	-56.6		-52.24		-35.55		
4.2	+25	46.39		-30.48		-37.32		
2.8	+25	43.33		-58.08		-40.84		

LTE

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value(Hz)	Limits (Hz)	
3.0	-30	-9.34	±4700	Pass
	-20	5.41		
	-10	-15.46		
	0	1.09		
	+10	-5.55		
	+20	-2.4		
	+25	-0.44		
	+30	7.15		
	+40	-7.9		
	+50	-17.41		
4.2	+25	-12.97	±4700	Pass
2.8	+25	-2.25		

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value(Hz)	Limits (Hz)	
3.0	-30	23.9	±4700	Pass
	-20	14.52		
	-10	14.09		
	0	0.41		
	+10	9.08		
	+20	5.09		
	+25	-13.75		
	+30	-1.43		
	+40	-8.85		
	+50	-3.4		
4.2	+25	-1.83	±4700	Pass
2.8	+25	7.3		

LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value(Hz)	Limits (Hz)	
3.0	-30	-4.59	±4331.25	Pass
	-20	3.33		
	-10	-0.03		
	0	-10.69		
	+10	-12.47		
	+20	-2.68		
	+25	10.27		
	+30	8.03		
	+40	1.56		
	+50	-3.62		
4.2	+25	-9		
2.8	+25	-19.61		

LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value(Hz)	Limits (Hz)	
3.0	-30	-2.8	±4331.25	Pass
	-20	0.69		
	-10	-1.34		
	0	2.53		
	+10	2.29		
	+20	-6.05		
	+25	-6.49		
	+30	3.88		
	+40	10.11		
	+50	9.83		
4.2	+25	7.4		
2.8	+25	-8.27		

LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value(Hz)	Limits (Hz)	
3.0	-30	-2.37	±2091.25	Pass
	-20	-7.55		
	-10	13.35		
	0	13.56		
	+10	-8.13		
	+20	-3.52		
	+25	11.17		
	+30	2.47		
	+40	-1.85		
	+50	8.63		
4.2	+25	6.91	±2091.25	Pass
2.8	+25	2.55		

LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value(Hz)	Limits (Hz)	
3.0	-30	-0.31	±2091.25	Pass
	-20	-11.6		
	-10	11.72		
	0	12.04		
	+10	-5.91		
	+20	5.04		
	+25	19.43		
	+30	6.79		
	+40	15.89		
	+50	3.62		
4.2	+25	4.86	±2091.25	Pass
2.8	+25	5.78		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value(Hz)	Limits (Hz)	
3.0	-30	-16.34	±6337.5	Pass
	-20	11.56		
	-10	7.77		
	0	-22		
	+10	5.91		
	+20	-3.58		
	+25	-15.81		
	+30	-2.62		
	+40	9.2		
	+50	0.69		
4.2	+25	1.82	±6337.5	Pass
2.8	+25	0.83		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value(Hz)	Limits (Hz)	
3.0	-30	-9.2	±6337.5	Pass
	-20	-11.89		
	-10	11.07		
	0	17.29		
	+10	-11.2		
	+20	-3.06		
	+25	-15.76		
	+30	6.91		
	+40	8		
	+50	9.96		
4.2	+25	6.65	±6337.5	Pass
2.8	+25	20.07		

1. GPRS_GSM850

1.1 GPRS Frequency Stability_Part22-24(-30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-30.19	-2060.5	2060.5	Pass
190	5	Static	22.15	-2091.5	2091.5	Pass
251	5	Static	30.25	-2122	2122	Pass

1.2 GPRS Frequency Stability_Part22-24(-20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	17.27	-2060.5	2060.5	Pass
190	5	Static	-29.22	-2091.5	2091.5	Pass
251	5	Static	-40.1	-2122	2122	Pass

1.3 GPRS Frequency Stability_Part22-24(-10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-19.21	-2060.5	2060.5	Pass
190	5	Static	-28.15	-2091.5	2091.5	Pass
251	5	Static	-26.38	-2122	2122	Pass

1.4 GPRS Frequency Stability_Part22-24(0 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-18.92	-2060.5	2060.5	Pass
190	5	Static	-24.6	-2091.5	2091.5	Pass
251	5	Static	-31.45	-2122	2122	Pass

1.5 GPRS Frequency Stability_Part22-24(10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-28.09	-2060.5	2060.5	Pass
190	5	Static	-32.09	-2091.5	2091.5	Pass
251	5	Static	-25.57	-2122	2122	Pass

1.6 GPRS Frequency Stability_Part22-24(20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-13.79	-2060.5	2060.5	Pass
190	5	Static	-26.6	-2091.5	2091.5	Pass
251	5	Static	-27.73	-2122	2122	Pass

1.7 GPRS Frequency Stability_Part22-24(25 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-22.57	-2060.5	2060.5	Pass
190	5	Static	-24.02	-2091.5	2091.5	Pass
251	5	Static	-31.28	-2122	2122	Pass

1.8 GPRS Frequency Stability_Part22-24(30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-14.75	-2060.5	2060.5	Pass
190	5	Static	-22.34	-2091.5	2091.5	Pass
251	5	Static	-40.33	-2122	2122	Pass

1.9 GPRS Frequency Stability_Part22-24(40 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-31.16	-2060.5	2060.5	Pass
190	5	Static	-17.85	-2091.5	2091.5	Pass
251	5	Static	-28.61	-2122	2122	Pass

1.10 GPRS Frequency Stability_Part22-24(50 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-17.6	-2060.5	2060.5	Pass
190	5	Static	-23.34	-2091.5	2091.5	Pass
251	5	Static	-30.83	-2122	2122	Pass

1.11 GPRS Frequency Stability_Part22-24(NTHV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	18.95	-2060.5	2060.5	Pass
190	5	Static	-21.57	-2091.5	2091.5	Pass
251	5	Static	-27.35	-2122	2122	Pass

1.12 GPRS Frequency Stability_Part22-24(NTLV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-32.54	-2060.5	2060.5	Pass
190	5	Static	-20.02	-2091.5	2091.5	Pass
251	5	Static	-29.35	-2122	2122	Pass

2. GPRS_PCS

2.1 GPRS Frequency Stability_Part22-24(-30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-62.63	-4625.5	4625.5	Pass
661	0	Static	35.45	-4700	4700	Pass
810	0	Static	-48.33	-4774.5	4774.5	Pass

2.2 GPRS Frequency Stability_Part22-24(-20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-71.58	-4625.5	4625.5	Pass
661	0	Static	40.87	-4700	4700	Pass
810	0	Static	-54.76	-4774.5	4774.5	Pass

2.3 GPRS Frequency Stability_Part22-24(-10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-57.69	-4625.5	4625.5	Pass
661	0	Static	-57.57	-4700	4700	Pass
810	0	Static	-40.87	-4774.5	4774.5	Pass

2.4 GPRS Frequency Stability_Part22-24(0 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-41.23	-4625.5	4625.5	Pass
661	0	Static	-45.07	-4700	4700	Pass
810	0	Static	-46.59	-4774.5	4774.5	Pass

2.5 GPRS Frequency Stability_Part22-24(10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-29.12	-4625.5	4625.5	Pass
661	0	Static	-36.81	-4700	4700	Pass
810	0	Static	-69.54	-4774.5	4774.5	Pass

2.6 GPRS Frequency Stability_Part22-24(20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-42.94	-4625.5	4625.5	Pass
661	0	Static	-40.62	-4700	4700	Pass
810	0	Static	-51.46	-4774.5	4774.5	Pass

2.7 GPRS Frequency Stability_Part22-24(25 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-47.11	-4625.5	4625.5	Pass
661	0	Static	-45.23	-4700	4700	Pass
810	0	Static	-41.78	-4774.5	4774.5	Pass

2.8 GPRS Frequency Stability_Part22-24(30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-37.48	-4625.5	4625.5	Pass
661	0	Static	-52.11	-4700	4700	Pass
810	0	Static	-40.36	-4774.5	4774.5	Pass

2.9 GPRS Frequency Stability_Part22-24(40 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-40.78	-4625.5	4625.5	Pass
661	0	Static	-42.55	-4700	4700	Pass
810	0	Static	-44.01	-4774.5	4774.5	Pass

2.10 GPRS Frequency Stability_Part22-24(50 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-48.3	-4625.5	4625.5	Pass
661	0	Static	-47.2	-4700	4700	Pass
810	0	Static	53.11	-4774.5	4774.5	Pass

2.11 GPRS Frequency Stability_Part22-24(NTHV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-46.01	-4625.5	4625.5	Pass
661	0	Static	-54.08	-4700	4700	Pass
810	0	Static	41.55	-4774.5	4774.5	Pass

2.12 GPRS Frequency Stability_Part22-24(NTLV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-42.62	-4625.5	4625.5	Pass
661	0	Static	-51.82	-4700	4700	Pass
810	0	Static	-52.98	-4774.5	4774.5	Pass

1. EGPRS_GSM850

1.1 EGPRS Frequency Stability_Part22-24(-30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-19.76	-2060.5	2060.5	Pass
190	8	Static	-20.34	-2091.5	2091.5	Pass
251	8	Static	-25.41	-2122	2122	Pass

1.2 EGPRS Frequency Stability_Part22-24(-20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-13.72	-2060.5	2060.5	Pass
190	8	Static	-32.32	-2091.5	2091.5	Pass
251	8	Static	17.85	-2122	2122	Pass

1.3 EGPRS Frequency Stability_Part22-24(-10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-16.47	-2060.5	2060.5	Pass
190	8	Static	-19.24	-2091.5	2091.5	Pass
251	8	Static	-18.66	-2122	2122	Pass

1.4 EGPRS Frequency Stability_Part22-24(0 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-18.89	-2060.5	2060.5	Pass
190	8	Static	-22.02	-2091.5	2091.5	Pass
251	8	Static	-25.73	-2122	2122	Pass

1.5 EGPRS Frequency Stability_Part22-24(10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-23.6	-2060.5	2060.5	Pass
190	8	Static	-21.05	-2091.5	2091.5	Pass
251	8	Static	-17.76	-2122	2122	Pass

1.6 EGPRS Frequency Stability_Part22-24(20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	16.34	-2060.5	2060.5	Pass
190	8	Static	-26.15	-2091.5	2091.5	Pass
251	8	Static	-27.15	-2122	2122	Pass

1.7 EGPRS Frequency Stability_Part22-24(25 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-24.86	-2060.5	2060.5	Pass
190	8	Static	-15.34	-2091.5	2091.5	Pass
251	8	Static	-32.32	-2122	2122	Pass

1.8 EGPRS Frequency Stability_Part22-24(30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-12.37	-2060.5	2060.5	Pass
190	8	Static	-19.24	-2091.5	2091.5	Pass
251	8	Static	-18.89	-2122	2122	Pass

1.9 EGPRS Frequency Stability_Part22-24(40 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-22.05	-2060.5	2060.5	Pass
190	8	Static	-24.44	-2091.5	2091.5	Pass
251	8	Static	-25.25	-2122	2122	Pass

1.10 EGPRS Frequency Stability_Part22-24(50 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-19.92	-2060.5	2060.5	Pass
190	8	Static	-26.18	-2091.5	2091.5	Pass
251	8	Static	-15.69	-2122	2122	Pass

1.11 EGPRS Frequency Stability_Part22-24(NTHV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-35.45	-2060.5	2060.5	Pass
190	8	Static	-21.47	-2091.5	2091.5	Pass
251	8	Static	-21.7	-2122	2122	Pass

1.12 EGPRS Frequency Stability_Part22-24(NTLV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-23.73	-2060.5	2060.5	Pass
190	8	Static	14.01	-2091.5	2091.5	Pass
251	8	Static	22.28	-2122	2122	Pass

2. EGPRS_PCS

2.1 EGPRS Frequency Stability_Part22-24(-30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	33.48	-4625.5	4625.5	Pass
661	2	Static	43.75	-4700	4700	Pass
810	2	Static	-28.28	-4774.5	4774.5	Pass

2.2 EGPRS Frequency Stability_Part22-24(-20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-44.36	-4625.5	4625.5	Pass
661	2	Static	-38.07	-4700	4700	Pass
810	2	Static	-35.48	-4774.5	4774.5	Pass

2.3 EGPRS Frequency Stability_Part22-24(-10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-31.77	-4625.5	4625.5	Pass
661	2	Static	-30.15	-4700	4700	Pass
810	2	Static	-37.35	-4774.5	4774.5	Pass

2.4 EGPRS Frequency Stability_Part22-24(0 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-33.32	-4625.5	4625.5	Pass
661	2	Static	37.1	-4700	4700	Pass
810	2	Static	-31.7	-4774.5	4774.5	Pass

2.5 EGPRS Frequency Stability_Part22-24(10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-54.53	-4625.5	4625.5	Pass
661	2	Static	-36.29	-4700	4700	Pass
810	2	Static	-38.29	-4774.5	4774.5	Pass

2.6 EGPRS Frequency Stability_Part22-24(20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	47.82	-4625.5	4625.5	Pass
661	2	Static	-28.93	-4700	4700	Pass
810	2	Static	47.46	-4774.5	4774.5	Pass

2.7 EGPRS Frequency Stability_Part22-24(25 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-62.63	-4625.5	4625.5	Pass
661	2	Static	-49.56	-4700	4700	Pass
810	2	Static	-50.98	-4774.5	4774.5	Pass

2.8 EGPRS Frequency Stability_Part22-24(30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	30.03	-4625.5	4625.5	Pass
661	2	Static	-42.26	-4700	4700	Pass
810	2	Static	-34.67	-4774.5	4774.5	Pass

2.9 EGPRS Frequency Stability_Part22-24(40 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-51.59	-4625.5	4625.5	Pass
661	2	Static	-43.52	-4700	4700	Pass
810	2	Static	-51.88	-4774.5	4774.5	Pass

2.10 EGPRS Frequency Stability_Part22-24(50 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-56.6	-4625.5	4625.5	Pass
661	2	Static	-52.24	-4700	4700	Pass
810	2	Static	-35.55	-4774.5	4774.5	Pass

2.11 EGPRS Frequency Stability_Part22-24(NTHV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	46.39	-4625.5	4625.5	Pass
661	2	Static	-30.48	-4700	4700	Pass
810	2	Static	-37.32	-4774.5	4774.5	Pass

2.12 EGPRS Frequency Stability_Part22-24(NTLV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	43.33	-4625.5	4625.5	Pass
661	2	Static	-58.08	-4700	4700	Pass
810	2	Static	-40.84	-4774.5	4774.5	Pass

1. LTE_Band2

1.1 LTE Frequency Stability_Part22-24-27(-30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-9.34	Pass
18900	10	16QAM	27	0	-4700	4700	23.9	Pass

1.2 LTE Frequency Stability_Part22-24-27(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	5.41	Pass
18900	10	16QAM	27	0	-4700	4700	14.52	Pass

1.3 LTE Frequency Stability_Part22-24-27(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-15.46	Pass
18900	10	16QAM	27	0	-4700	4700	14.09	Pass

1.4 LTE Frequency Stability_Part22-24-27(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	1.09	Pass
18900	10	16QAM	27	0	-4700	4700	0.41	Pass

1.5 LTE Frequency Stability_Part22-24-27(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-5.55	Pass
18900	10	16QAM	27	0	-4700	4700	9.08	Pass

1.6 LTE Frequency Stability_Part22-24-27(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-2.4	Pass
18900	10	16QAM	27	0	-4700	4700	5.09	Pass

1.7 LTE Frequency Stability_Part22-24-27(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-0.44	Pass
18900	10	16QAM	27	0	-4700	4700	-13.75	Pass

1.8 LTE Frequency Stability_Part22-24-27(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	7.15	Pass
18900	10	16QAM	27	0	-4700	4700	-1.43	Pass

1.9 LTE Frequency Stability_Part22-24-27(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-7.9	Pass
18900	10	16QAM	27	0	-4700	4700	-8.85	Pass

1.10 LTE Frequency Stability_Part22-24-27(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-17.41	Pass
18900	10	16QAM	27	0	-4700	4700	-3.4	Pass

1.11 LTE Frequency Stability_Part22-24-27(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-12.97	Pass
18900	10	16QAM	27	0	-4700	4700	-1.83	Pass

1.12 LTE Frequency Stability_Part22-24-27(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	0	-4700	4700	-2.25	Pass
18900	10	16QAM	27	0	-4700	4700	7.3	Pass

1.13 LTE Frequency Stability_Part22-24-27(NTNV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
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2. LTE_Band4

2.1 LTE Frequency Stability_Part22-24-27(-30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	-4.59	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	-2.8	Pass

2.2 LTE Frequency Stability_Part22-24-27(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	3.33	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	0.69	Pass

2.3 LTE Frequency Stability_Part22-24-27(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	-0.03	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	-1.34	Pass

2.4 LTE Frequency Stability_Part22-24-27(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	-10.69	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	2.53	Pass

2.5 LTE Frequency Stability_Part22-24-27(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	-12.47	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	2.29	Pass

2.6 LTE Frequency Stability_Part22-24-27(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	-2.68	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	-6.05	Pass

2.7 LTE Frequency Stability_Part22-24-27(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	10.27	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	-6.49	Pass

2.8 LTE Frequency Stability_Part22-24-27(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	8.03	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	3.88	Pass

2.9 LTE Frequency Stability_Part22-24-27(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	1.56	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	10.11	Pass

2.10 LTE Frequency Stability_Part22-24-27(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	-3.62	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	9.83	Pass

2.11 LTE Frequency Stability_Part22-24-27(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	-9	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	7.4	Pass

2.12 LTE Frequency Stability_Part22-24-27(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	0	-4331.25	4331.25	-19.61	Pass
20175	10	16QAM	27	0	-4331.25	4331.25	-8.27	Pass

3. LTE_Band5

3.1 LTE Frequency Stability_Part22-24-27(-30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	-2.37	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	-0.31	Pass

3.2 LTE Frequency Stability_Part22-24-27(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	-7.55	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	-11.6	Pass

3.3 LTE Frequency Stability_Part22-24-27(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	13.35	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	11.72	Pass

3.4 LTE Frequency Stability_Part22-24-27(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	13.56	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	12.04	Pass

3.5 LTE Frequency Stability_Part22-24-27(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	-8.13	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	-5.91	Pass

3.6 LTE Frequency Stability_Part22-24-27(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	-3.52	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	5.04	Pass

3.7 LTE Frequency Stability_Part22-24-27(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	11.17	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	19.43	Pass

3.8 LTE Frequency Stability_Part22-24-27(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	2.47	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	6.79	Pass

3.9 LTE Frequency Stability_Part22-24-27(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	-1.85	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	15.89	Pass

3.10 LTE Frequency Stability_Part22-24-27(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	8.63	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	3.62	Pass

3.11 LTE Frequency Stability_Part22-24-27(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	6.91	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	4.86	Pass

3.12 LTE Frequency Stability_Part22-24-27(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	0	-2091.25	2091.25	2.55	Pass
20525	10	16QAM	27	0	-2091.25	2091.25	5.78	Pass

4. LTE_Band7

4.1 LTE Frequency Stability_Part22-24-27(-30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	-16.34	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	-9.2	Pass

4.2 LTE Frequency Stability_Part22-24-27(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	11.56	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	-11.89	Pass

4.3 LTE Frequency Stability_Part22-24-27(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	7.77	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	11.07	Pass

4.4 LTE Frequency Stability_Part22-24-27(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	-22	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	17.29	Pass

4.5 LTE Frequency Stability_Part22-24-27(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	5.91	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	-11.2	Pass

4.6 LTE Frequency Stability_Part22-24-27(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	-3.58	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	-3.06	Pass

4.7 LTE Frequency Stability_Part22-24-27(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	-15.81	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	-15.76	Pass

4.8 LTE Frequency Stability_Part22-24-27(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	-2.62	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	6.91	Pass

4.9 LTE Frequency Stability_Part22-24-27(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	9.2	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	8	Pass

4.10 LTE Frequency Stability_Part22-24-27(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	0.69	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	9.96	Pass

4.11 LTE Frequency Stability_Part22-24-27(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	1.82	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	6.65	Pass

4.12 LTE Frequency Stability_Part22-24-27(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	0	-6337.5	6337.5	0.83	Pass
21100	10	16QAM	27	0	-6337.5	6337.5	20.07	Pass

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