

Frequency Stability

LTE

LTE Band 17 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-30	-0.49	±1775	Pass
	-20	-0.1		
	-10	0.3		
	0	0.77		
	+10	0.34		
	+20	-0.14		
	+25	0.04		
	+30	0.54		
	+40	0.53		
	+50	-0.57		
	+60	-0.44		
	+70	-0.34		
	+80	0.3		
	+85	-0.11		
3.6	+25	0.11		
4.6	+25	0.04		

LTE Band 17 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-30	-0.2	±1775	Pass
	-20	0.56		
	-10	-0.03		
	0	0.11		
	+10	0.43		
	+20	-0.92		
	+25	-1.37		
	+30	0.79		
	+40	-0.4		
	+50	-0.56		
	+60	-0.8		
	+70	1.02		
	+80	-0.67		
	+85	0.13		
3.6	+25	0.5		
4.6	+25	-0.63		

1. LTE_Band17

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
23790	10	QPSK	50	0	-1775	1775	-0.49	Pass
23790	10	16QAM	50	0	-1775	1775	-0.2	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
23790	10	QPSK	50	0	-1775	1775	-0.1	Pass
23790	10	16QAM	50	0	-1775	1775	0.56	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
23790	10	QPSK	50	0	-1775	1775	0.3	Pass
23790	10	16QAM	50	0	-1775	1775	-0.03	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
23790	10	QPSK	50	0	-1775	1775	0.77	Pass
23790	10	16QAM	50	0	-1775	1775	0.11	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
23790	10	QPSK	50	0	-1775	1775	0.34	Pass
23790	10	16QAM	50	0	-1775	1775	0.43	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
23790	10	QPSK	50	0	-1775	1775	-0.14	Pass
23790	10	16QAM	50	0	-1775	1775	-0.92	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
23790	10	QPSK	50	0	-1775	1775	0.04	Pass
23790	10	16QAM	50	0	-1775	1775	-1.37	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
23790	10	QPSK	50	0	-1775	1775	0.54	Pass
23790	10	16QAM	50	0	-1775	1775	0.79	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
23790	10	QPSK	50	0	-1775	1775	0.53	Pass
23790	10	16QAM	50	0	-1775	1775	-0.4	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
23790	10	QPSK	50	0	-1775	1775	-0.57	Pass
23790	10	16QAM	50	0	-1775	1775	-0.56	Pass

1.11 LTE Frequency Stability_Part22-24-27(60 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23790	10	QPSK	50	0	-1775	1775	-0.44	Pass
23790	10	16QAM	50	0	-1775	1775	-0.8	Pass

1.12 LTE Frequency Stability_Part22-24-27(70 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23790	10	QPSK	50	0	-1775	1775	-0.34	Pass
23790	10	16QAM	50	0	-1775	1775	1.02	Pass

1.13 LTE Frequency Stability_Part22-24-27(80 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23790	10	QPSK	50	0	-1775	1775	0.3	Pass
23790	10	16QAM	50	0	-1775	1775	-0.67	Pass

1.14 LTE Frequency Stability_Part22-24-27(85 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23790	10	QPSK	50	0	-1775	1775	-0.11	Pass
23790	10	16QAM	50	0	-1775	1775	0.13	Pass

1.15 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
23790	10	QPSK	50	0	-1775	1775	0.11	Pass
23790	10	16QAM	50	0	-1775	1775	0.5	Pass

1.16 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
23790	10	QPSK	50	0	-1775	1775	0.04	Pass
23790	10	16QAM	50	0	-1775	1775	-0.63	Pass