

Frequency Stability

LTE

LTE Band 48 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3625 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-10	-3.15	±9062.5	Pass
	0	-3.78		
	+10	0.11		
	+20	-2		
	+25	-0.76		
	+30	-0.46		
	+40	-1.17		
	+50	-2.4		
4.2	+25	-0.63		
3.6	+25	-1.93		

LTE Band 48 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3625 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-10	-2.8	±9062.5	Pass
	0	-1.92		
	+10	-0.2		
	+20	-1.97		
	+25	-1.76		
	+30	-0.94		
	+40	-0.49		
	+50	-1.86		
4.2	+25	-2.49		
3.6	+25	-1		

NR

NR Band n48 QPSK 40 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3624.99 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-10	-0.97	±9062.47	Pass
	0	3.29		
	+10	-8.26		
	+20	-1.98		
	+25	-2.46		
	+30	1.44		
	+40	-2.12		
	+50	-3.82		
4.2	+25	-5.08	±9062.47	Pass
3.6	+25	-5.72		

1. LTE_Band48

1.1 LTE Frequency Stability_Part96(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-3.15	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-2.8	Pass

1.2 LTE Frequency Stability_Part96(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-3.78	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-1.92	Pass

1.3 LTE Frequency Stability_Part96(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	0.11	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-0.2	Pass

1.4 LTE Frequency Stability_Part96(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-2	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-1.97	Pass

1.5 LTE Frequency Stability_Part96(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-0.76	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-1.76	Pass

1.6 LTE Frequency Stability_Part96(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-0.46	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-0.94	Pass

1.7 LTE Frequency Stability_Part96(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-1.17	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-0.49	Pass

1.8 LTE Frequency Stability_Part96(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-2.4	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-1.86	Pass

1.9 LTE Frequency Stability_Part96(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-0.63	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-2.49	Pass

1.10 LTE Frequency Stability_Part96(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
55990	10	QPSK	50	LOW	-9062.5	9062.5	-1.93	Pass
55990	10	Q16	50	LOW	-9062.5	9062.5	-1	Pass

1. n48

1.1 Frequency Error for SA_Part96(-10 Degree)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	-0.97	-9062.47	9062.47	Pass

1.2 Frequency Error for SA_Part96(0 Degree)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	3.29	-9062.47	9062.47	Pass

1.3 Frequency Error for SA_Part96(10 Degree)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	-8.26	-9062.47	9062.47	Pass

1.4 Frequency Error for SA_Part96(20 Degree)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	-1.98	-9062.47	9062.47	Pass

1.5 Frequency Error for SA_Part96(25 Degree)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	-2.46	-9062.47	9062.47	Pass

1.6 Frequency Error for SA_Part96(30 Degree)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	1.44	-9062.47	9062.47	Pass

1.7 Frequency Error for SA_Part96(40 Degree)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	-2.12	-9062.47	9062.47	Pass

1.8 Frequency Error for SA_Part96(50 Degree)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	-3.82	-9062.47	9062.47	Pass

1.9 Frequency Error for SA_Part96(NTHV)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	-5.08	-9062.47	9062.47	Pass

1.10 Frequency Error for SA_Part96(NTLV)

UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
641666	40	30	DFT-s-OFDM	100	0	QPSK	-5.72	-9062.47	9062.47	Pass