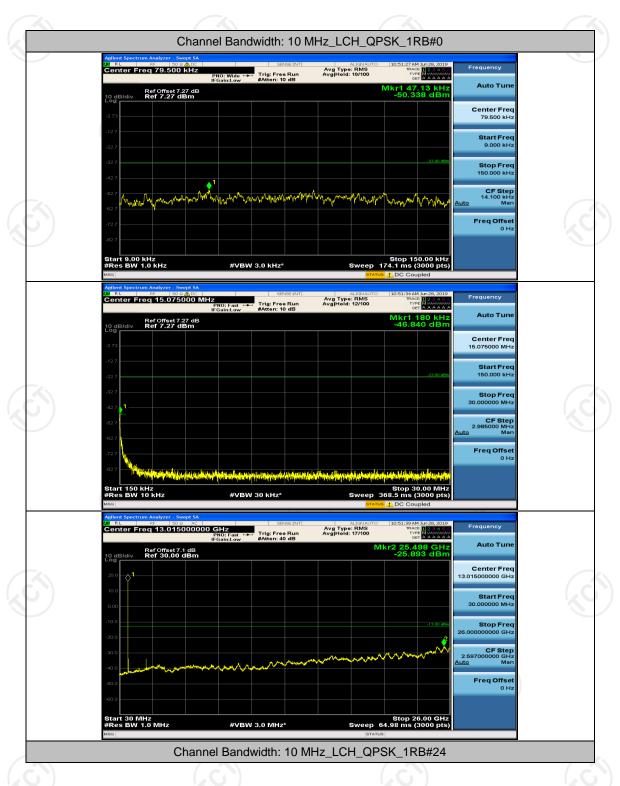


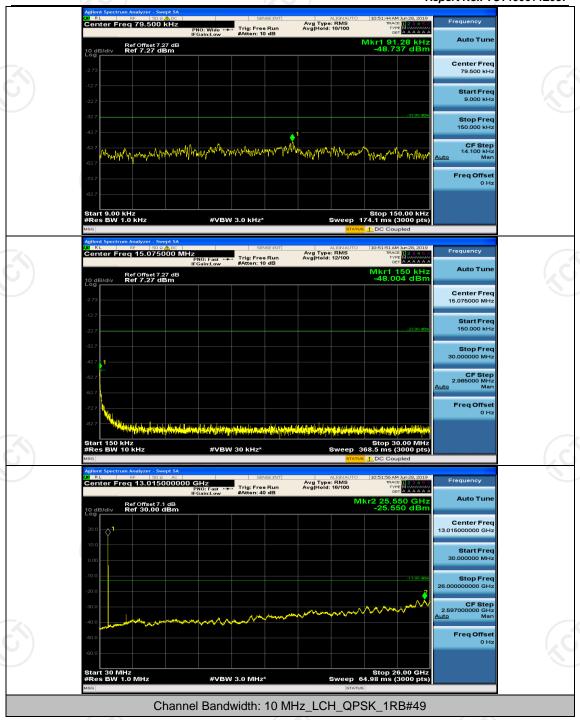




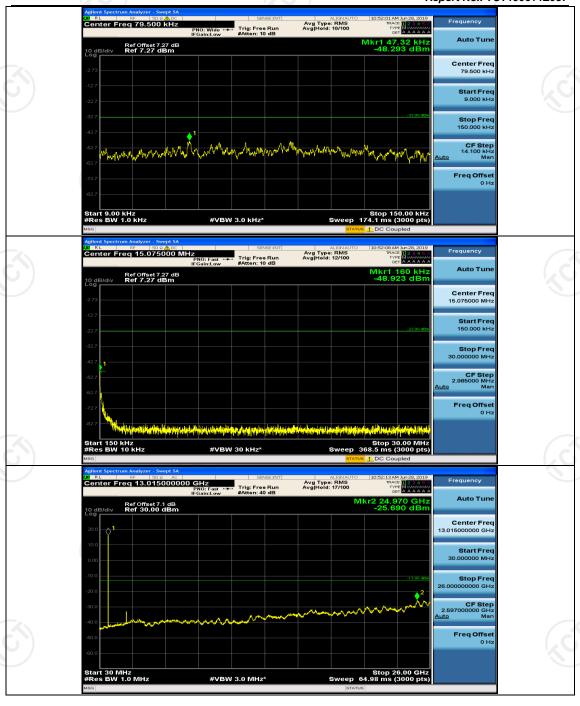
## **Channel Bandwidth: 10 MHz**



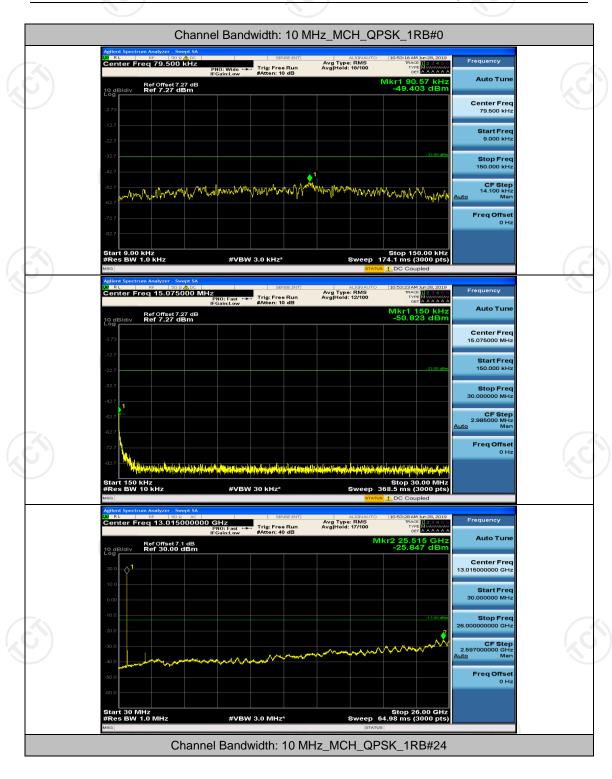






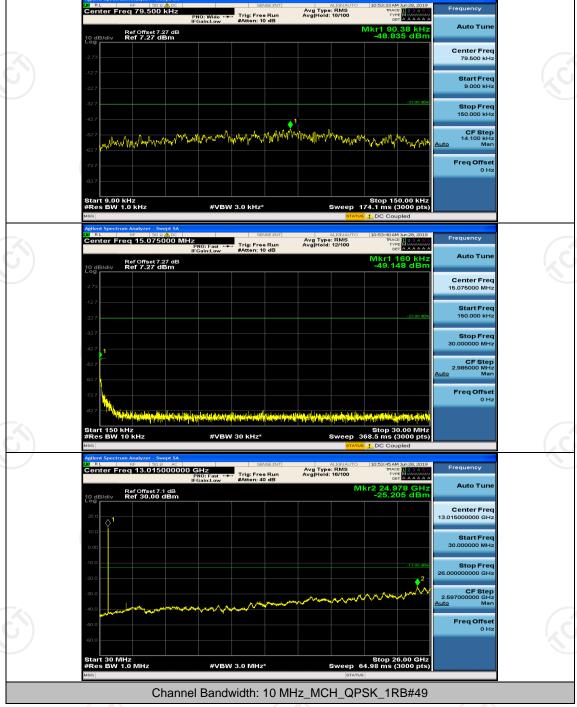




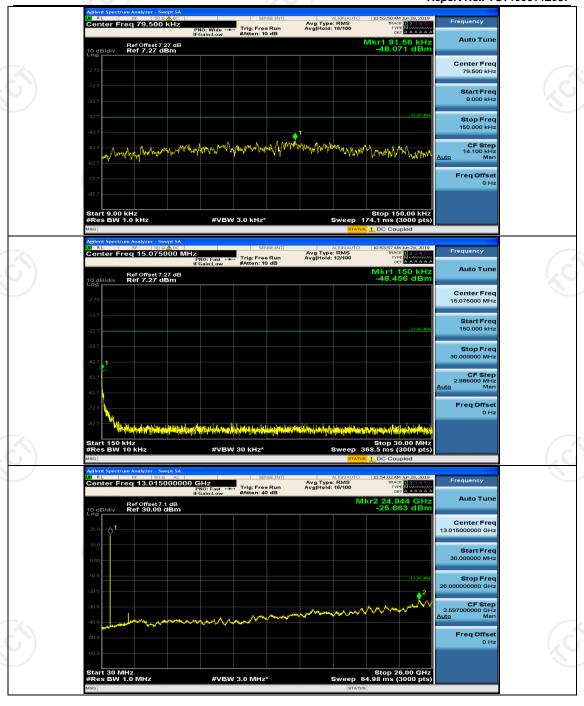




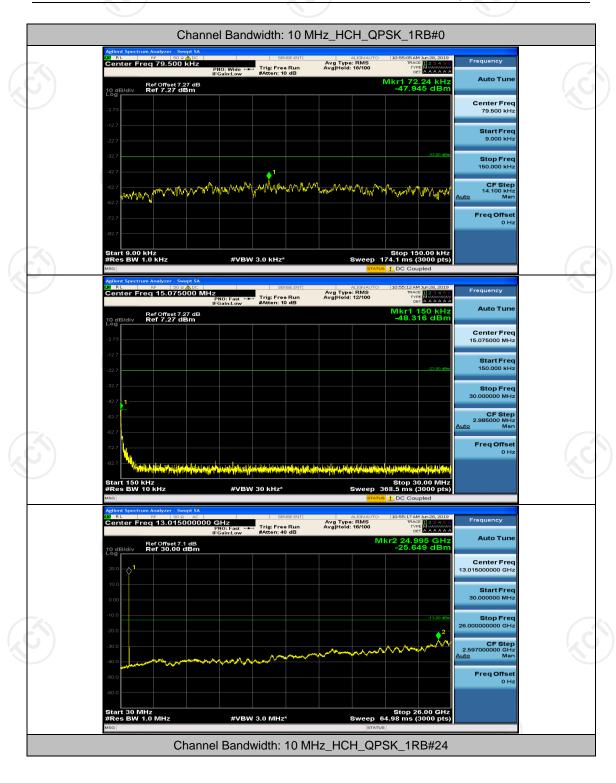
Report No.: TCT190614E037 Auto Tun









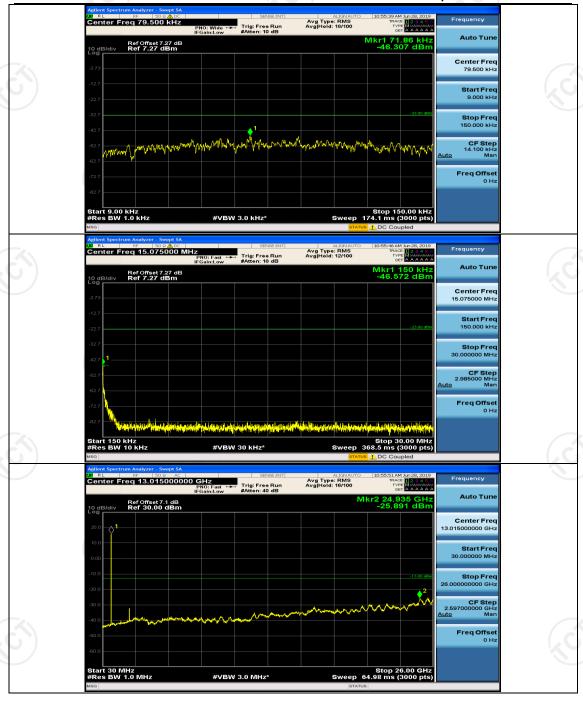




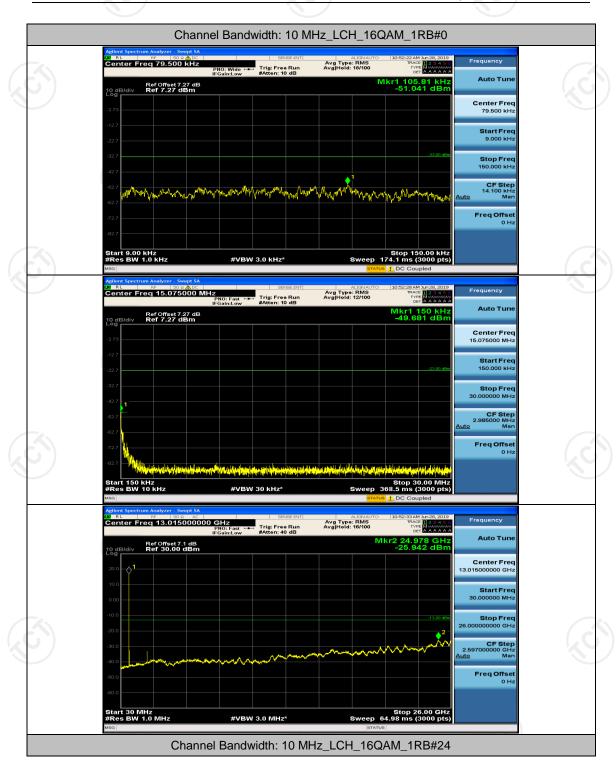
Report No.: TCT190614E037 RL RF 50Ω ADC Center Freq 79.500 kHz Avg Type: RMS Avg|Hold: 18/100 Trig: Free Run #Atten: 10 dB Auto Tun Ref Offset 7.27 dB Ref 7.27 dBm Center Free 79.500 kH Start Fre 9.000 kH Stop Fre Freq Offse Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz\* enter Freq 15.075000 MHz Avg Type: RMS Avg|Hold: 12/100 Frequency Trig: Free Run #Atten: 10 dB Ref Offset 7.27 dB Ref 7.27 dBm Start Fre 150.000 kH Agten Spectrum Program Avg Type: RMS Avg|Hold: 17/100 Ref Offset 7.1 dB Ref 30.00 dBm Center Fred 13.015000000 GH Stop Free

Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#49







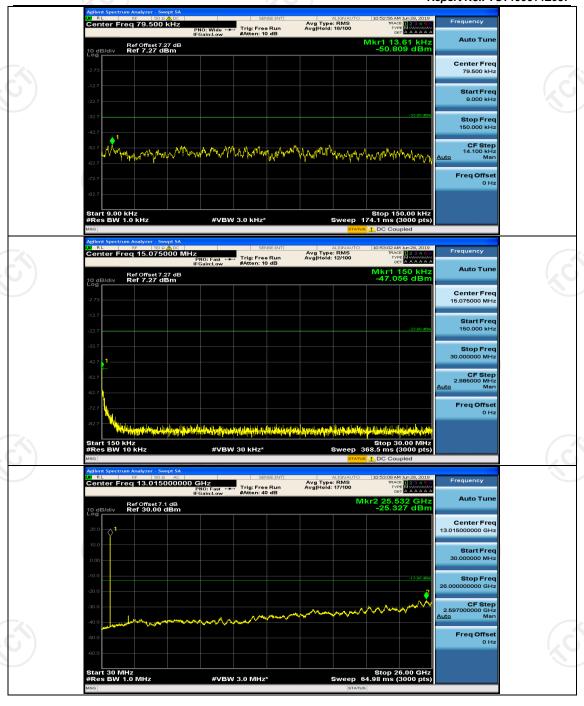




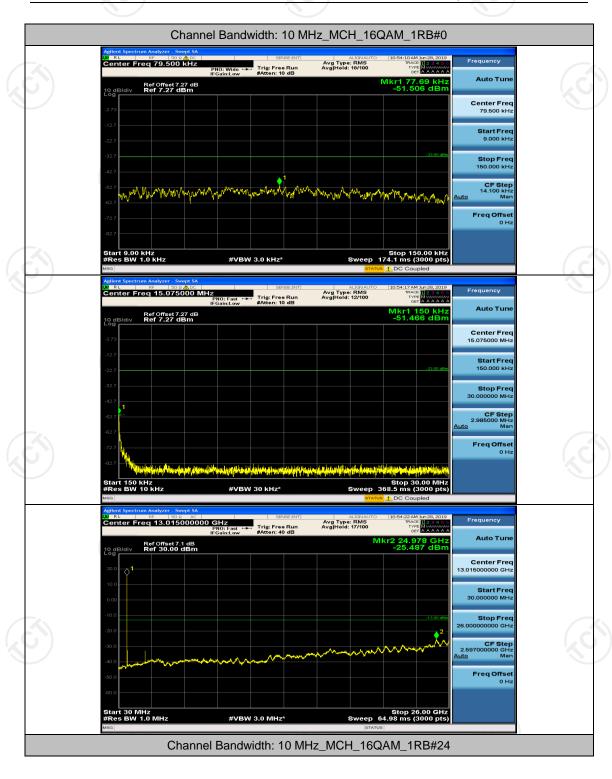
Report No.: TCT190614E037 RL RF 50 0 A DC Center Freq 79.500 kHz Avg Type: RMS Avg|Hold: 18/100 Auto Tun Ref Offset 7.27 dB Ref 7.27 dBm Center Free 79.500 kH Start Fre 9.000 kH Stop Fre Freq Offse Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz\* enter Freq 15.075000 MHz Avg Type: RMS Avg|Hold: 12/100 Frequency Trig: Free Run #Atten: 10 dB Ref Offset 7.27 dB Ref 7.27 dBm Start Fre 150.000 kH Agten Spectrum Program Avg Type: RMS Avg|Hold: 17/100 Ref Offset 7.1 dB Ref 30.00 dBm Center Fred 13.015000000 GH Stop Free

Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49

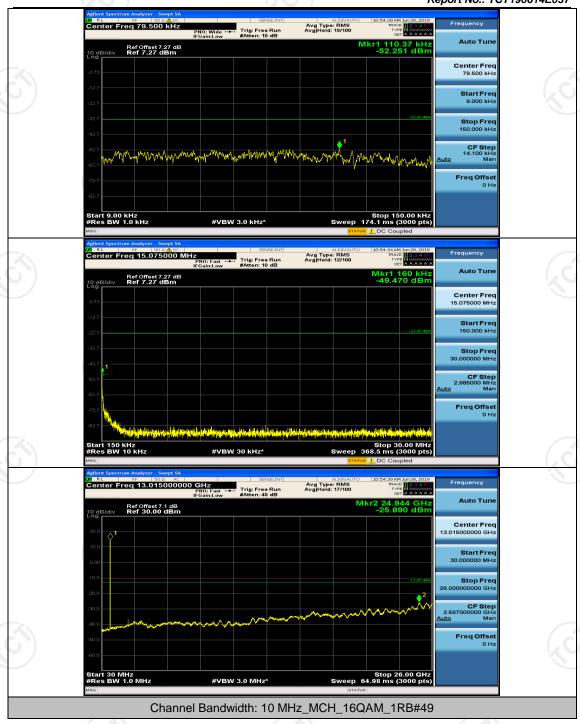




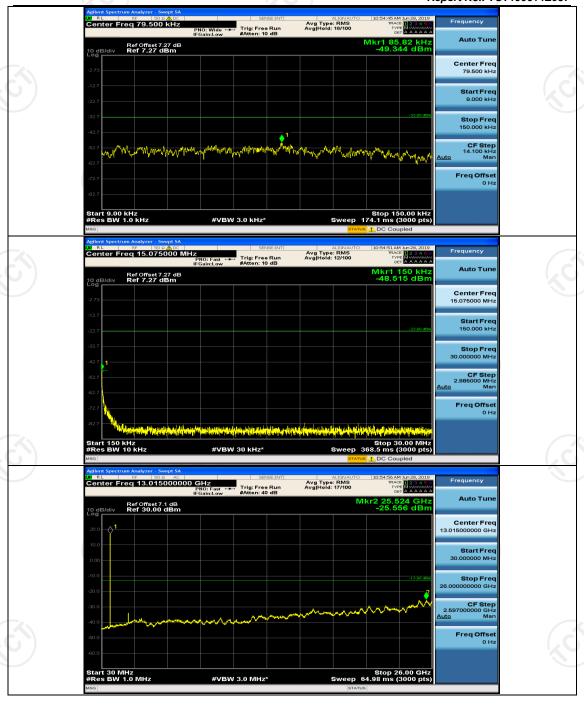




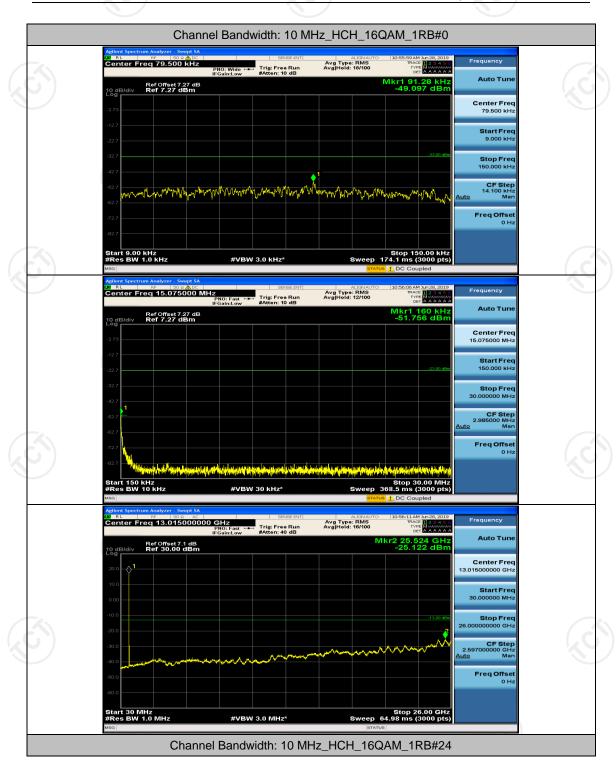




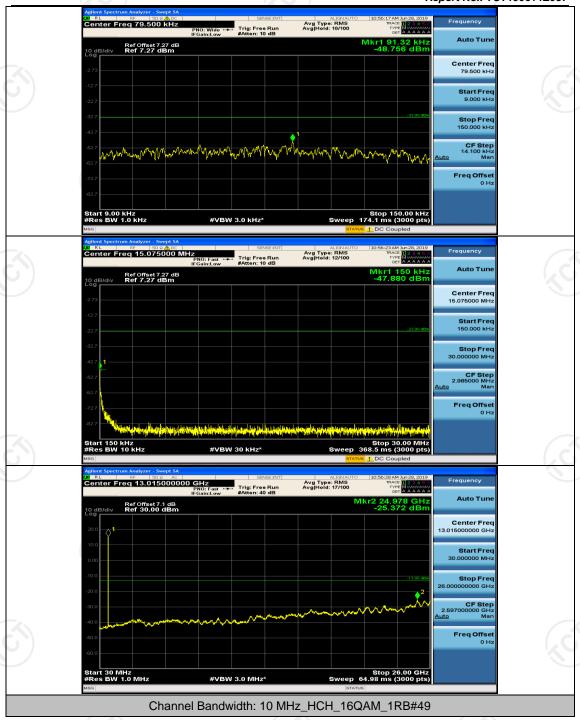




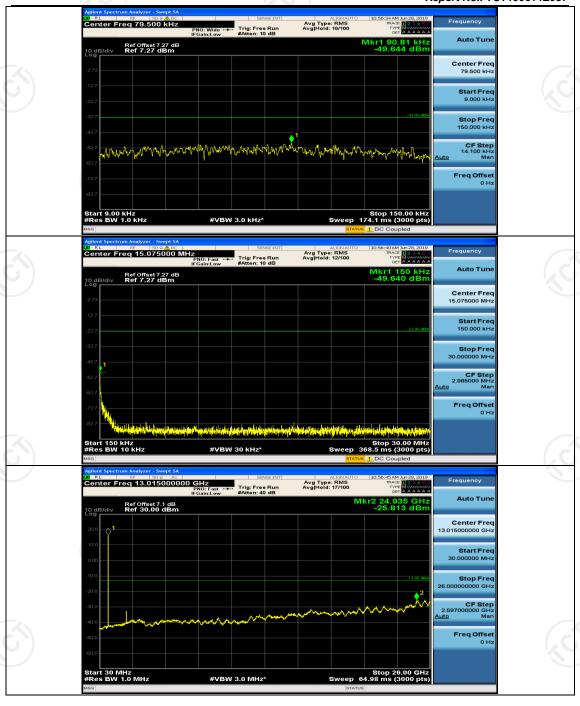
















## **Appendix F: Frequency Stability**

**Test Result** 

**Channel Bandwidth: 5 MHz** 

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
		VL	TN	-0.006741	± 2.5	PASS
	LCH	VN	_ TN	-0.004758	± 2.5	PASS
QPSK		VH	TN	-0.008837	± 2.5	PASS
	MCH	VL	TN	-0.005750	± 2.5	PASS
		VN	TN	-0.002438	± 2.5	PASS
		VH	TN	-0.016461	± 2.5	PASS
		VL	TN	-0.004534	± 2.5	PASS
	НСН	VN	TN	-0.012230	± 2.5	PASS
		VH	TN	-0.007563	± 2.5	PASS
16QAM	LCH	VL	TN	-0.006458	± 2.5	PASS
		VN	TN	-0.007978	± 2.5	PASS
		VH	TN	-0.011258	± 2.5	PASS
	МСН	VL	TN	-0.005467	± 2.5	PASS
		VN	TN	-0.010014	± 2.5	PASS
		VH	TN	-0.007717	± 2.5	PASS
	НСН	VL	TN	-0.004752	± 2.5	PASS
		VN	TN	-0.012511	± 2.5	PASS
		VH	TN	-0.007444	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
		VN	-30	-0.006804	± 2.5	PASS
		VN	-20	-0.007021	± 2.5	PASS
		VN	-10	-0.009745	± 2.5	PASS
		VN	0	-0.008011	± 2.5	PASS
	LCH	VN	10	-0.006844	± 2.5	PASS
		VN	20	-0.003908	± 2.5	PASS
		VN	30	-0.007795	± 2.5	PASS
		VN	40	-0.004434	± 2.5	PASS
QPSK	140 )	VN	50	-0.008403	± 2.5	PASS
		VN	-30	-0.006971	± 2.5	PASS
		VN	-20	-0.006165	± 2.5	PASS
	мсн	VN	-10	-0.003808	± 2.5	PASS
		VN	0	-0.007354	± 2.5	PASS
		VN	10	-0.003640	± 2.5	PASS
		VN	20	-0.007072	± 2.5	PASS
		VN	30	-0.004130	± 2.5	PASS
		VN	40	-0.002861	± 2.5	PASS

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_			(20)		Report No.: TCT190614E037		
		VN	50		-0.006065	± 2.5	PASS
		VN	-30		-0.003742	± 2.5	PASS
	•	VN	-20		-0.006096	± 2.5	PASS
	•	VN	-10		-0.012213	± 2.5	PASS
	•	VN	0		-0.009979	± 2.5	PASS
	HCH	VN	10		-0.005243	± 2.5	PASS
	•	VN	20		-0.014997	± 2.5	PASS
	•	VN	30		-0.007819	± 2.5	PASS
		VN	40	ス	-0.009523	± 2.5	PASS
	(.C)	VN	50		-0.006095	± 2.5	PASS
5)		VN	-30		-0.005992	± 2.5	PASS
	•	VN	-20		-0.001112	± 2.5	PASS
	•	VN	-10		-0.011339	± 2.5	PASS
	•	VN	0		-0.007970	± 2.5	PASS
	LCH	VN	10		-0.004120	± 2.5	PASS
	•	VN	20		-0.009294	± 2.5	PASS
	•	VN	30		-0.006824	± 2.5	PASS
	•	VN	40		-0.002389	± 2.5	PASS
		VN	50	ス	-0.004617	± 2.5	PASS
16QAM		VN	-30		-0.006689	± 2.5	PASS
		VN	-20		-0.011001	± 2.5	PASS
	•	VN	-10		-0.002116	± 2.5	PASS
	•	VN	0		-0.007012	± 2.5	PASS
	MCH	VN	10		-0.004201	± 2.5	PASS
	•	VN	20		-0.008059	± 2.5	PASS
	•	VN	30		-0.003063	± 2.5	PASS
	•	VN	40		-0.009752	± 2.5	PASS
	•	VN	50		-0.009933	± 2.5	PASS
		VN	-30		-0.004487	± 2.5	PASS
		VN	-20		-0.010523	± 2.5	PASS
		VN	-10		-0.009678	± 2.5	PASS
		VN	0		-0.008571	± 2.5	PASS
	HCH	VN	10		-0.003250	± 2.5	PASS
		VN	20		-0.005594	± 2.5	PASS
		VN	30		-0.014455	± 2.5	PASS
		VN	40		-0.009183	± 2.5	PASS
		VN	50		-0.010726	± 2.5	PASS

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