

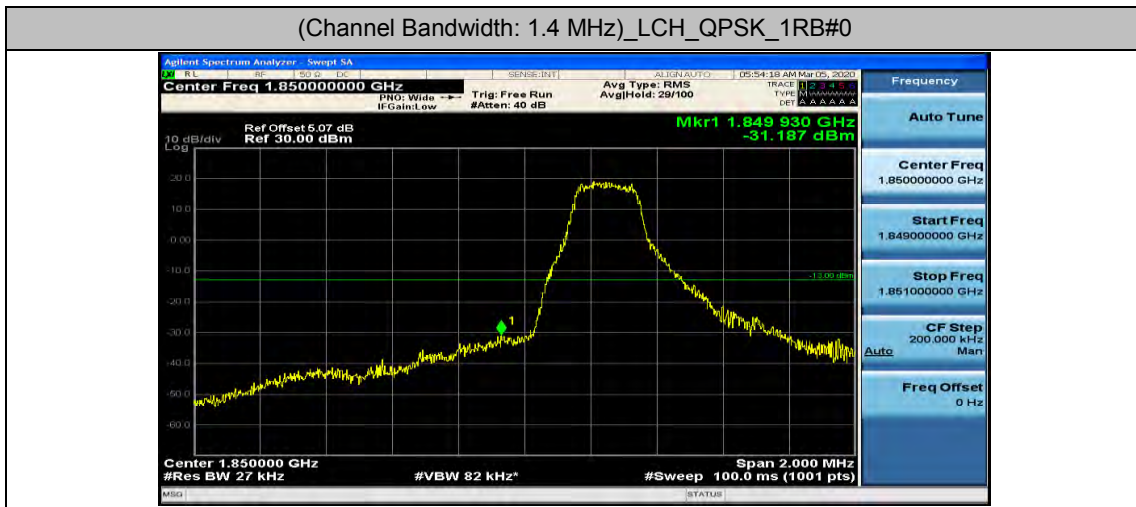


Appendix D: Band Edge

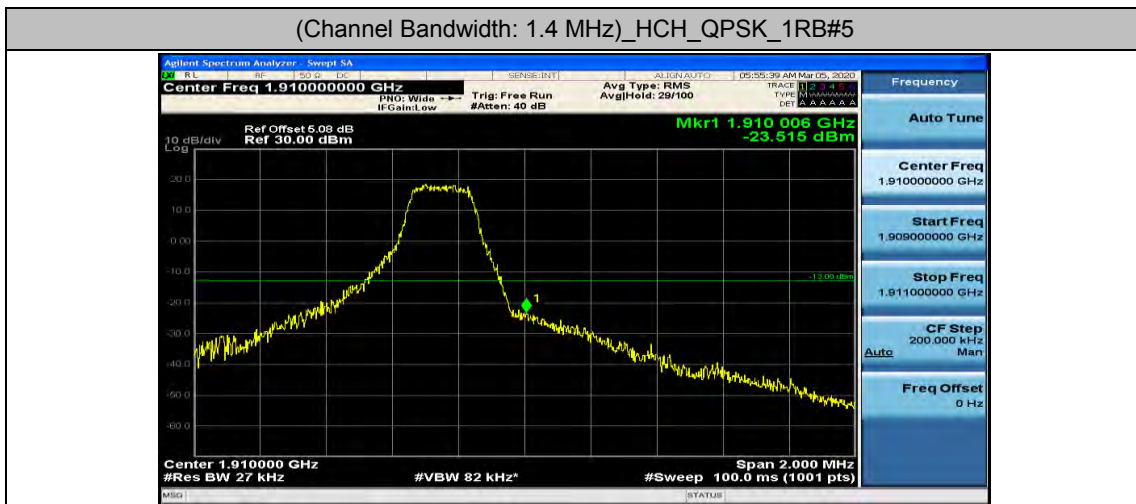
Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5





(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0





(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

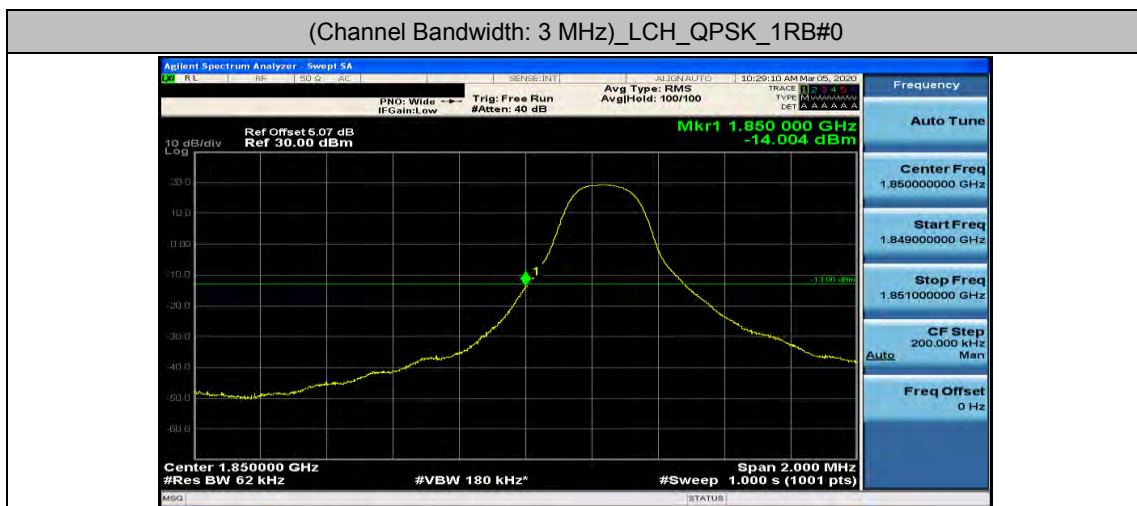


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

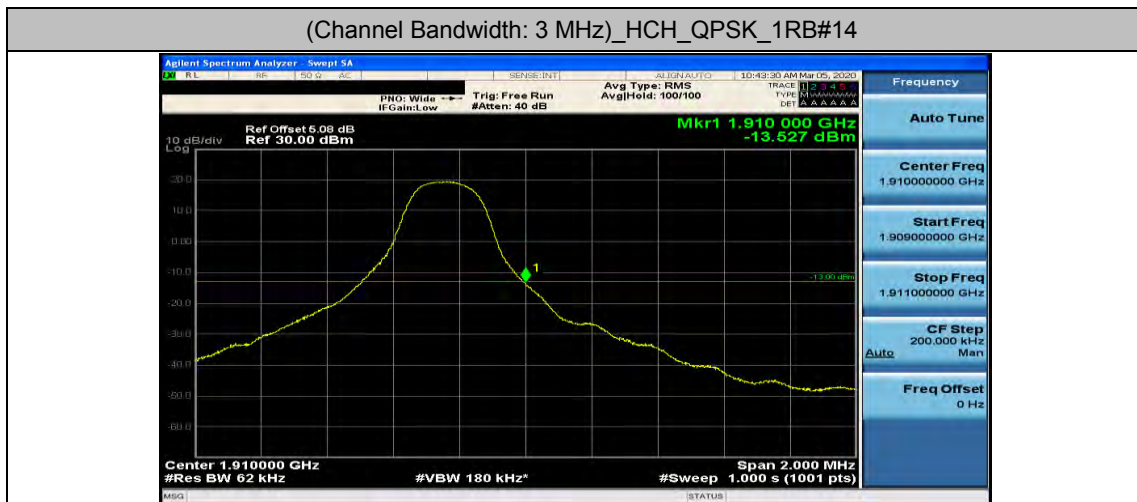


Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14





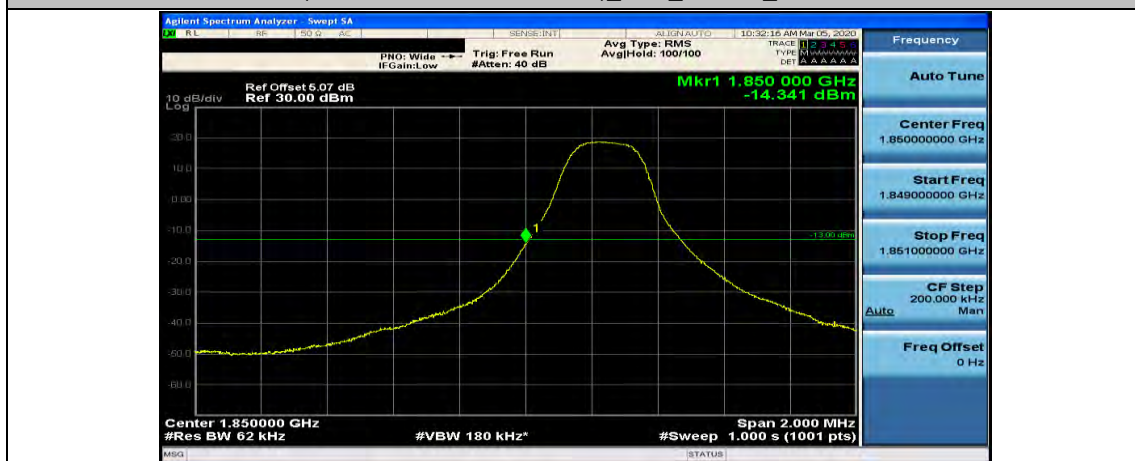
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0





(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

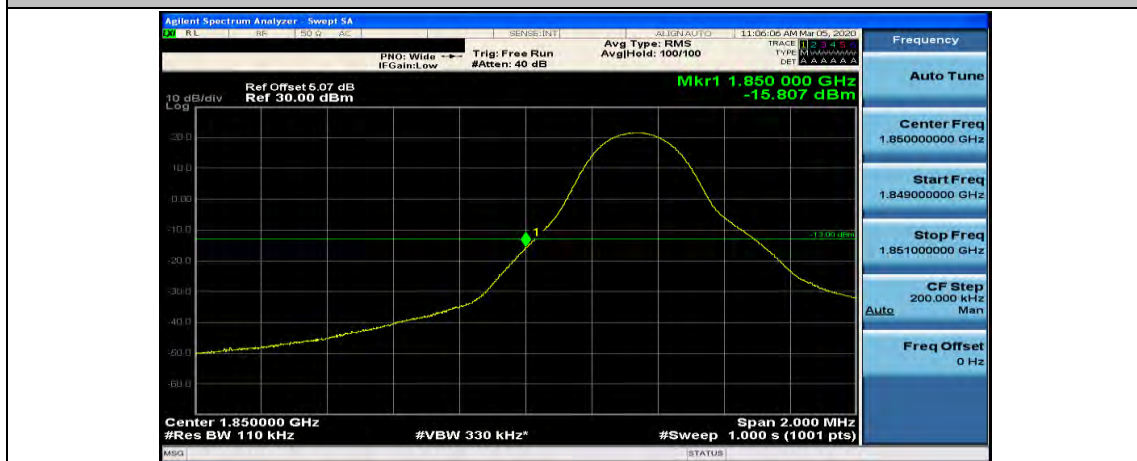


(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0



Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24





(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

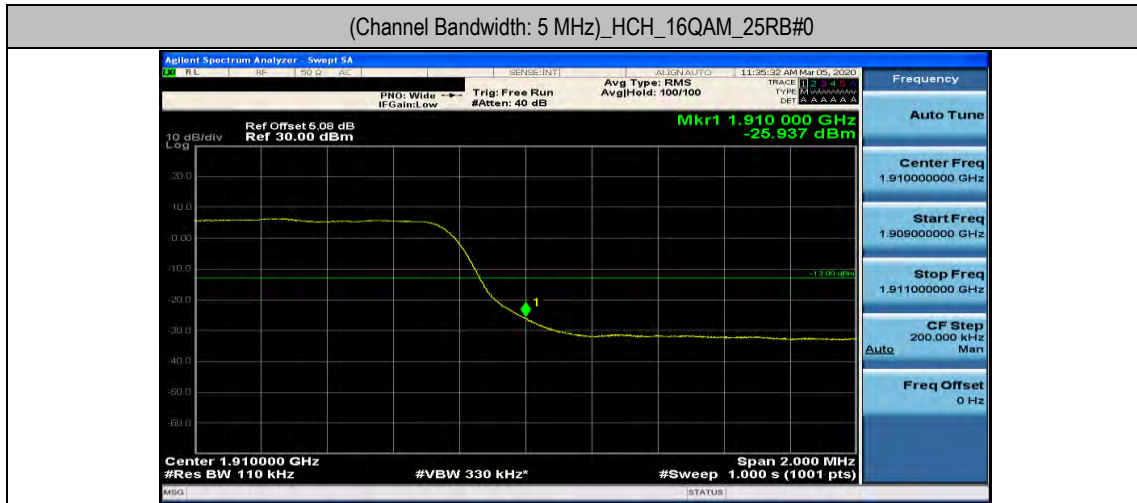


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

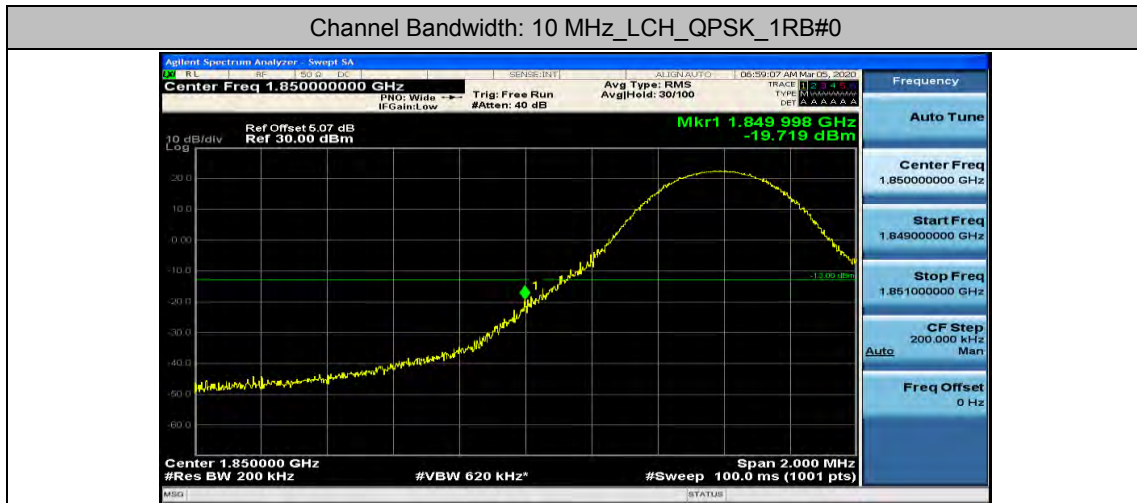


(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

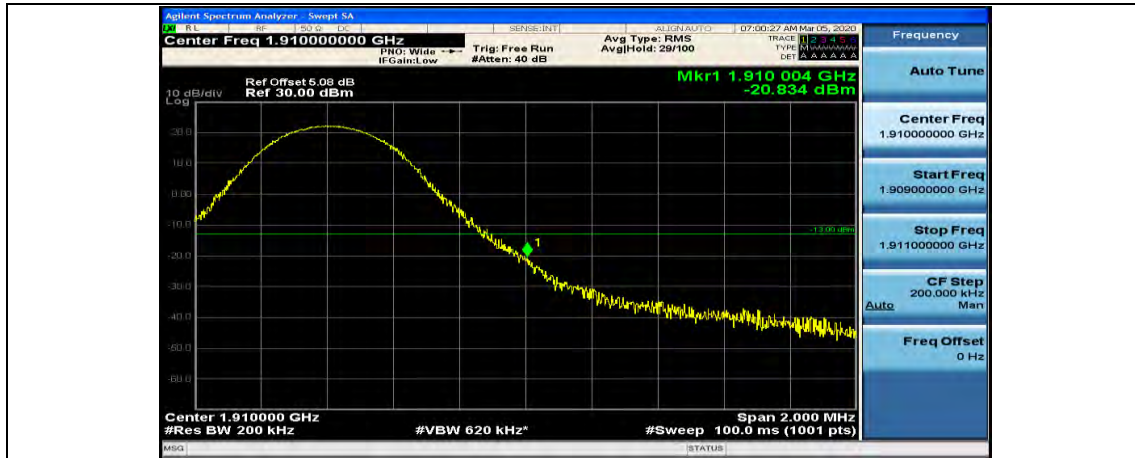




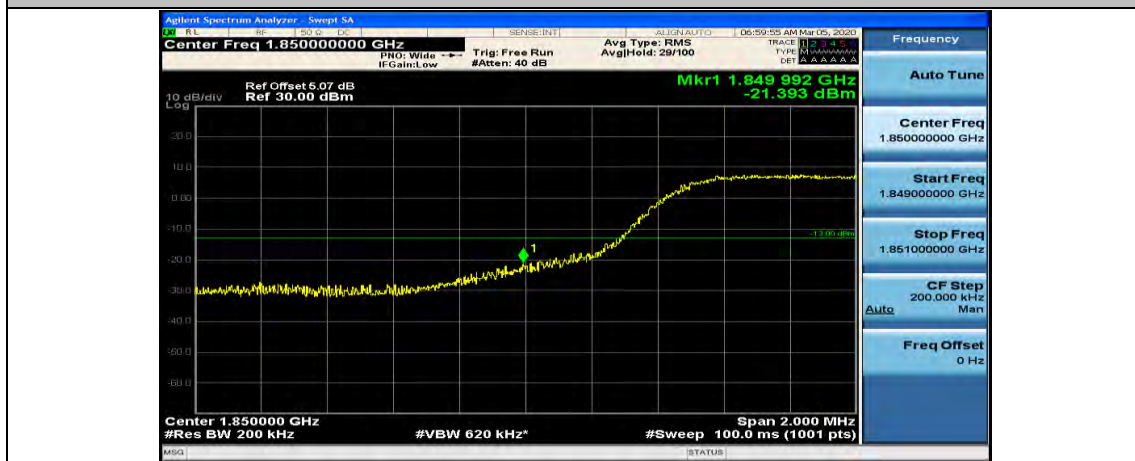
Channel Bandwidth: 10 MHz



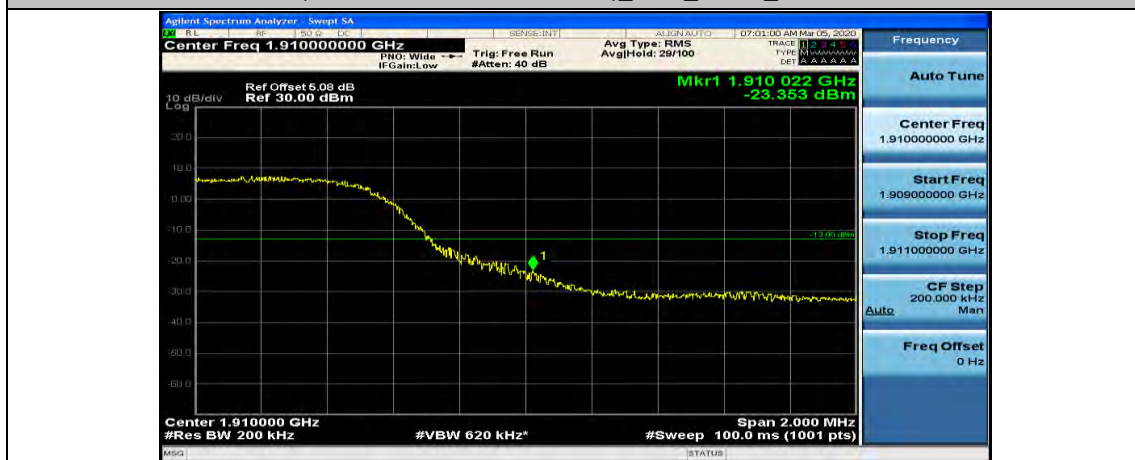
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



(Channel Bandwidth: 10 MHz)_LCH_QPSK_50RB#0

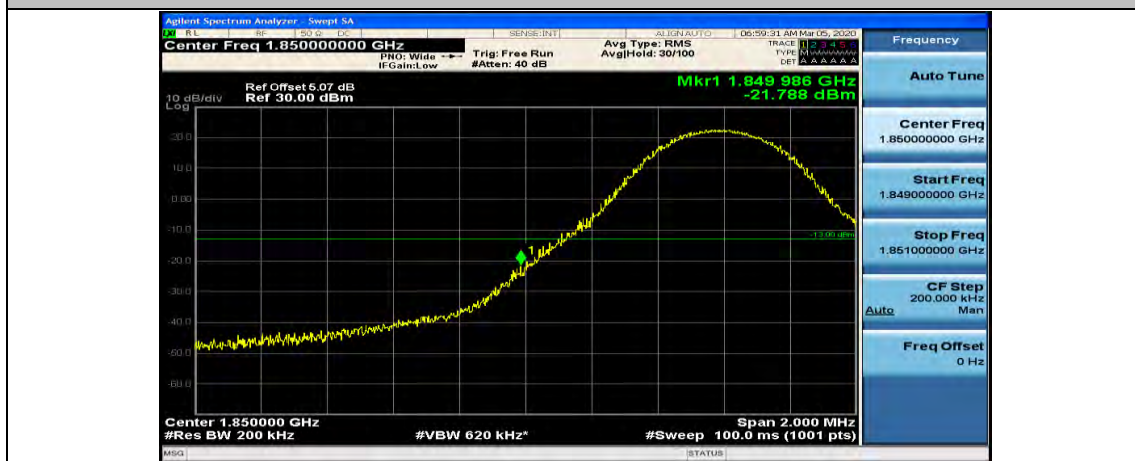


(Channel Bandwidth: 10 MHz)_HCH_QPSK_50RB#0





Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

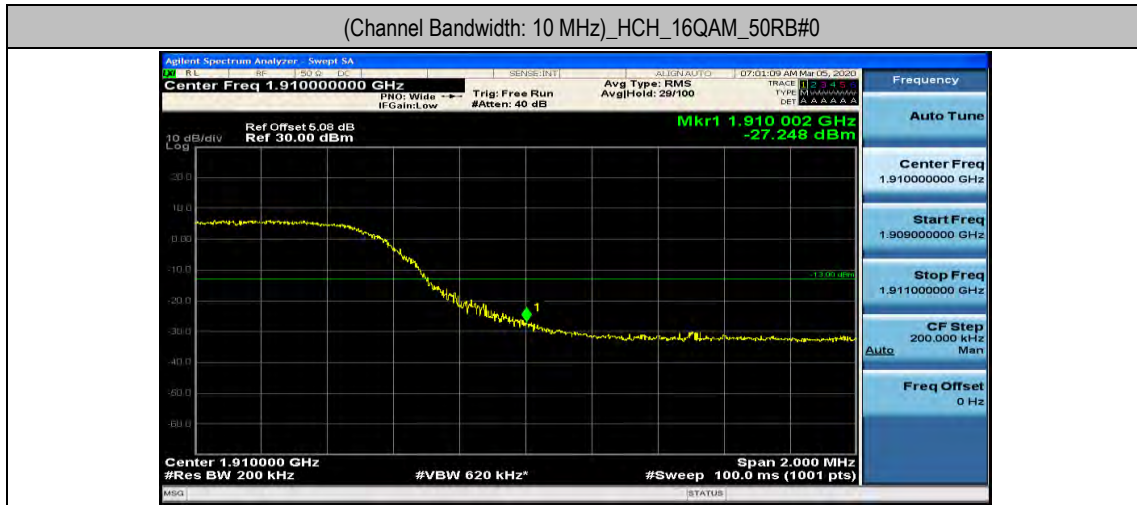


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

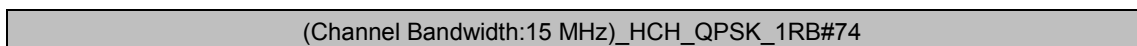
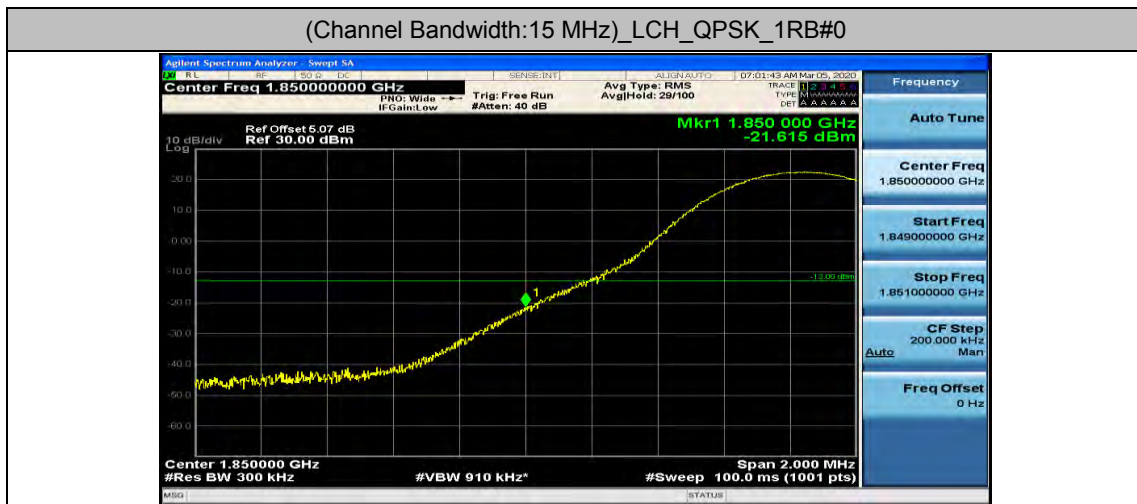


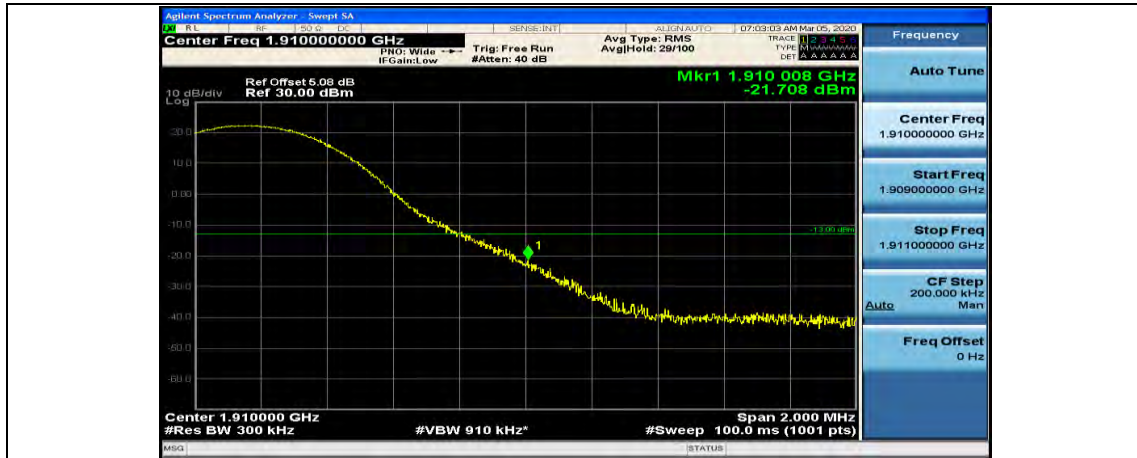
(Channel Bandwidth: 10 MHz)_LCH_16QAM_50RB#0





Channel Bandwidth: 15 MHz

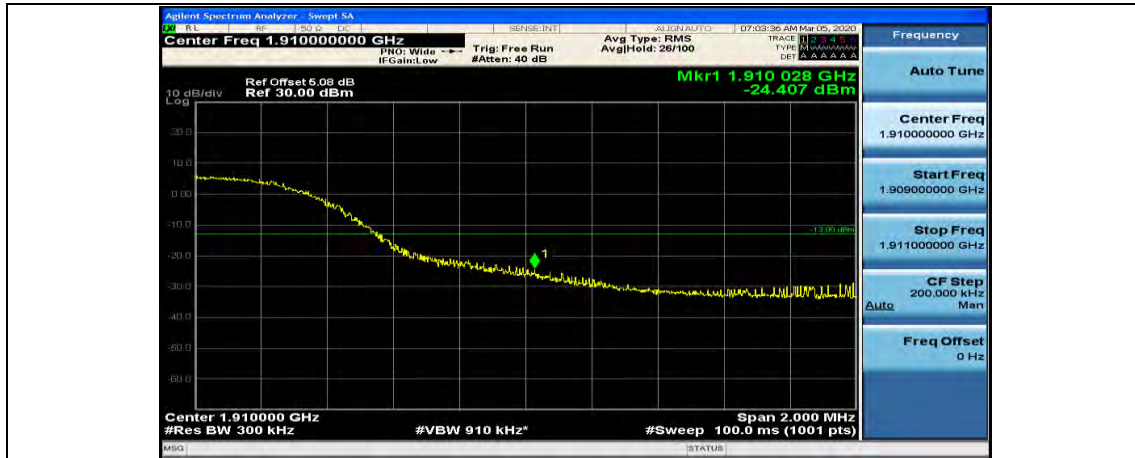




(Channel Bandwidth: 15 MHz)_LCH_QPSK_75RB#0



(Channel Bandwidth: 15 MHz)_HCH_QPSK_75RB#0



(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74

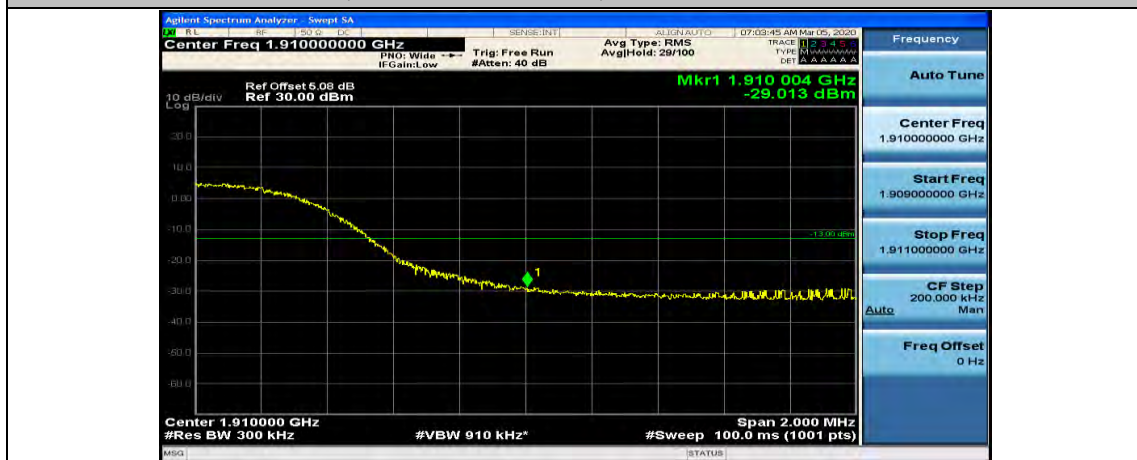




(Channel Bandwidth: 15 MHz)_LCH_16QAM_75RB#0



(Channel Bandwidth: 15 MHz)_HCH_16QAM_75RB#0

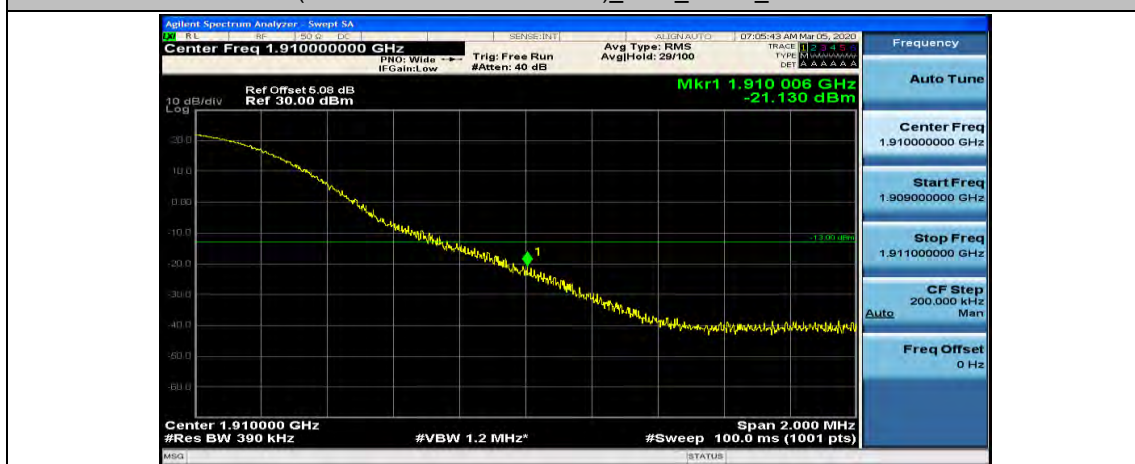


Channel Bandwidth: 20 MHz

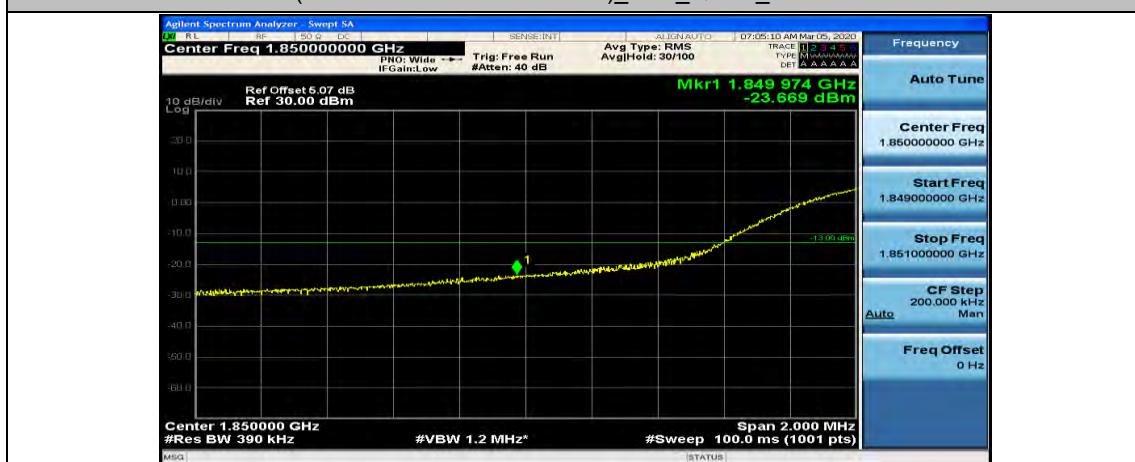
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0



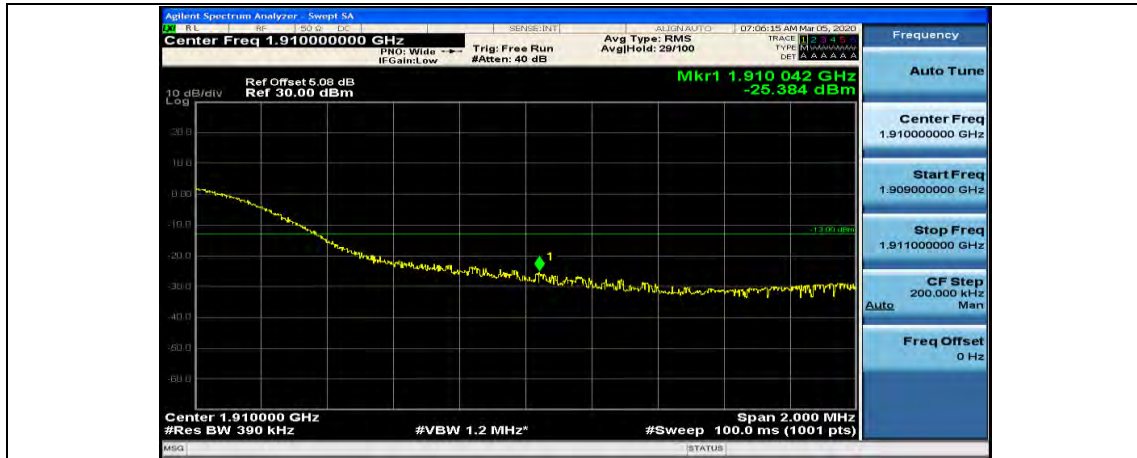
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99



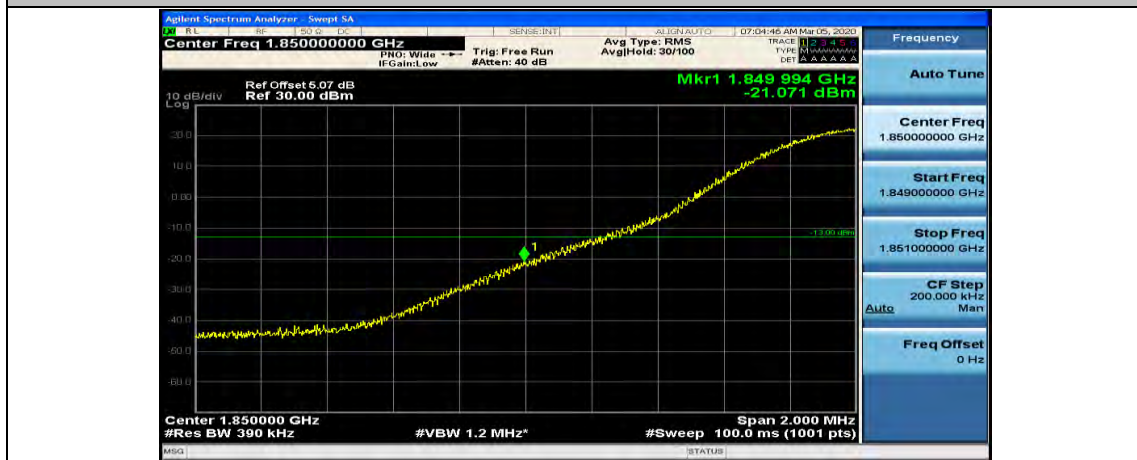
(Channel Bandwidth: 20 MHz)_LCH_QPSK_100RB#0



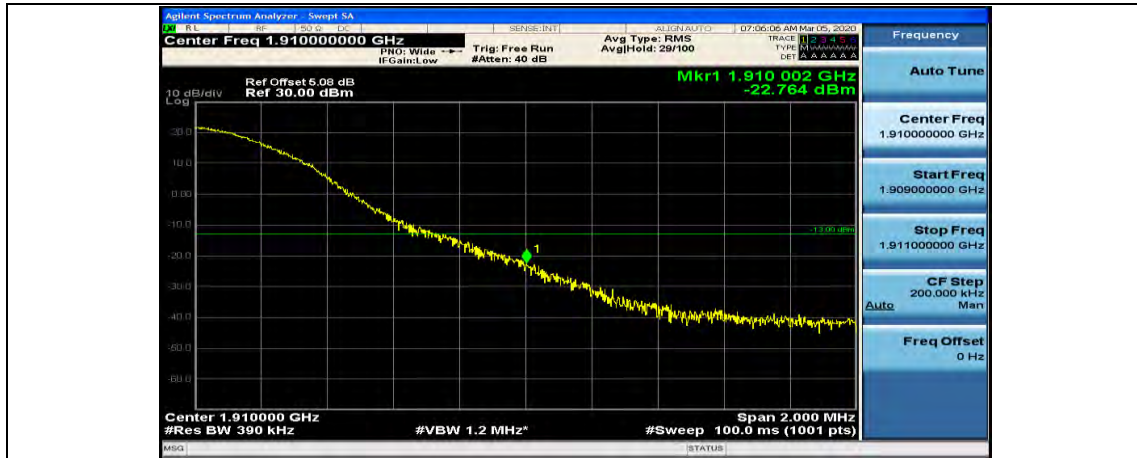
(Channel Bandwidth: 20 MHz)_HCH_QPSK_100RB#0



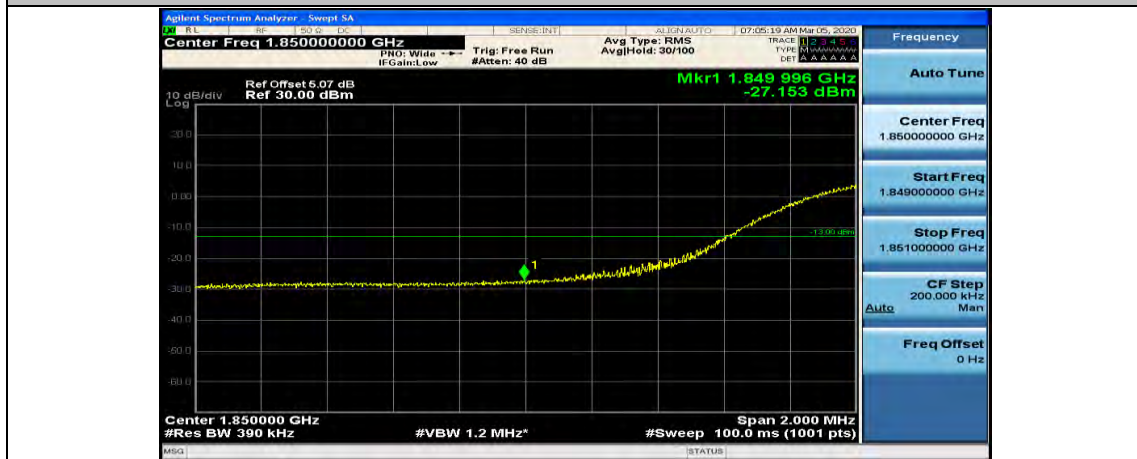
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



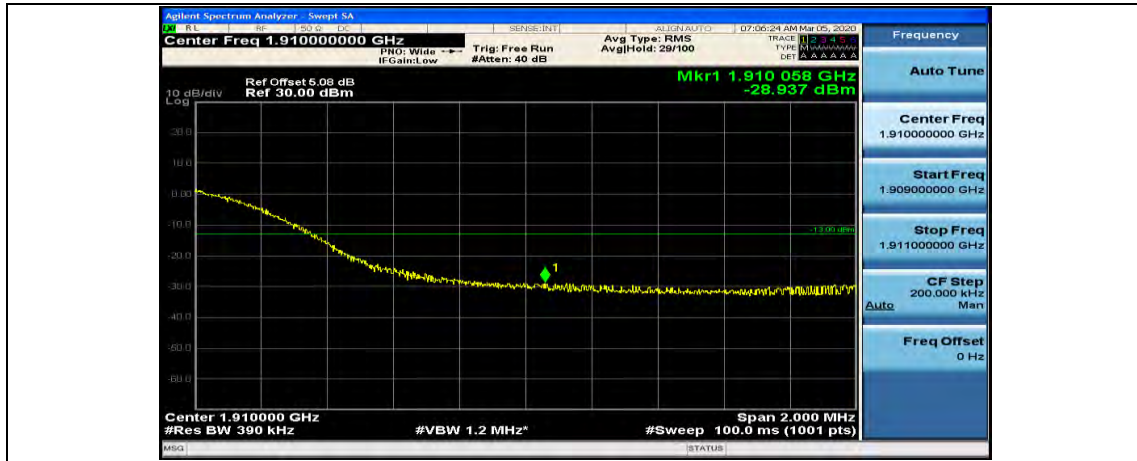
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99



(Channel Bandwidth: 20 MHz)_LCH_16QAM_100RB#0



(Channel Bandwidth: 20 MHz)_HCH_16QAM_100RB#0

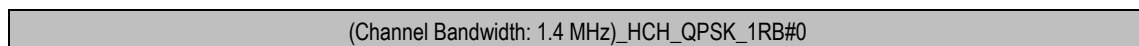
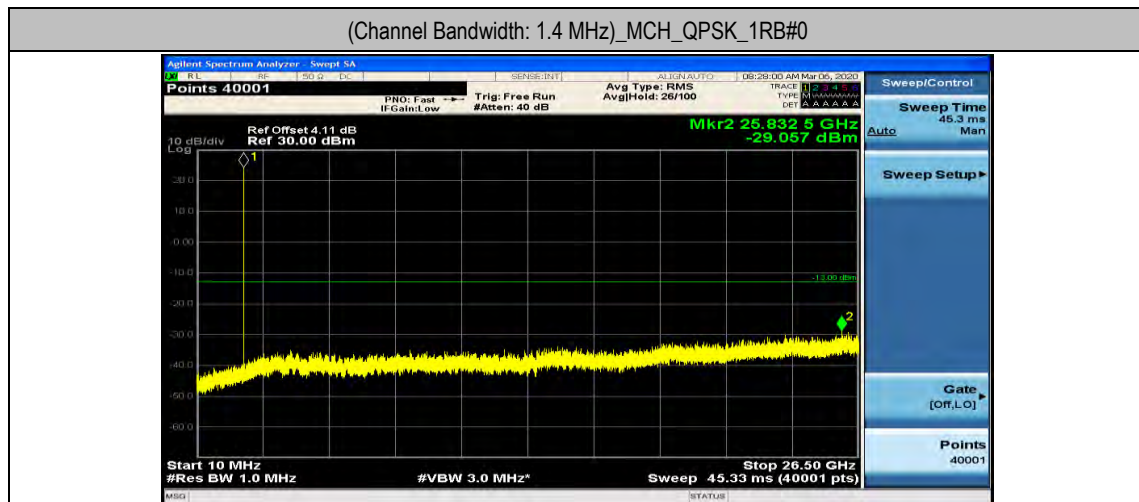
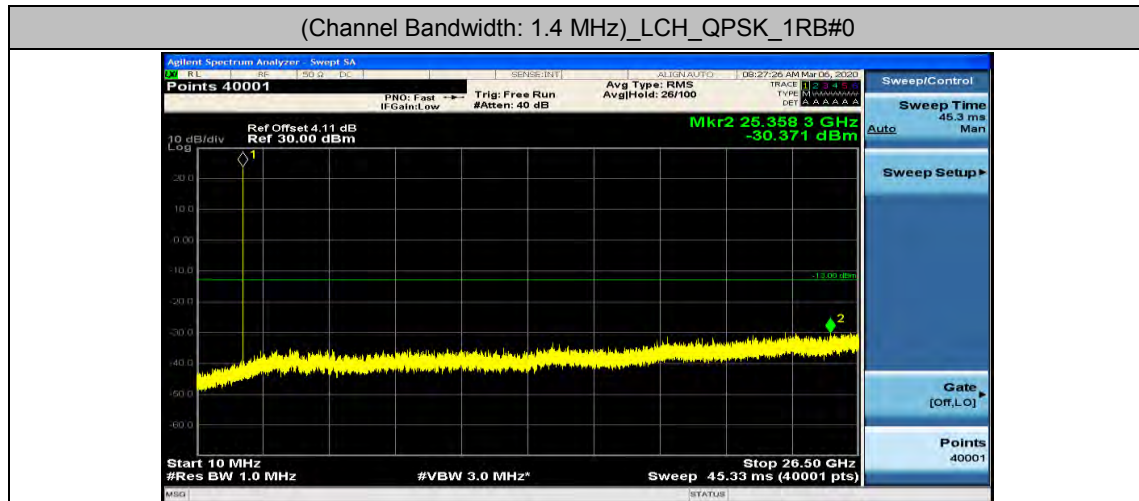




Appendix E: Conducted Spurious Emission

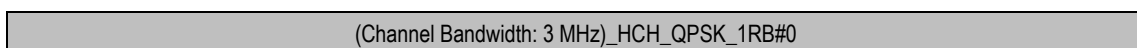
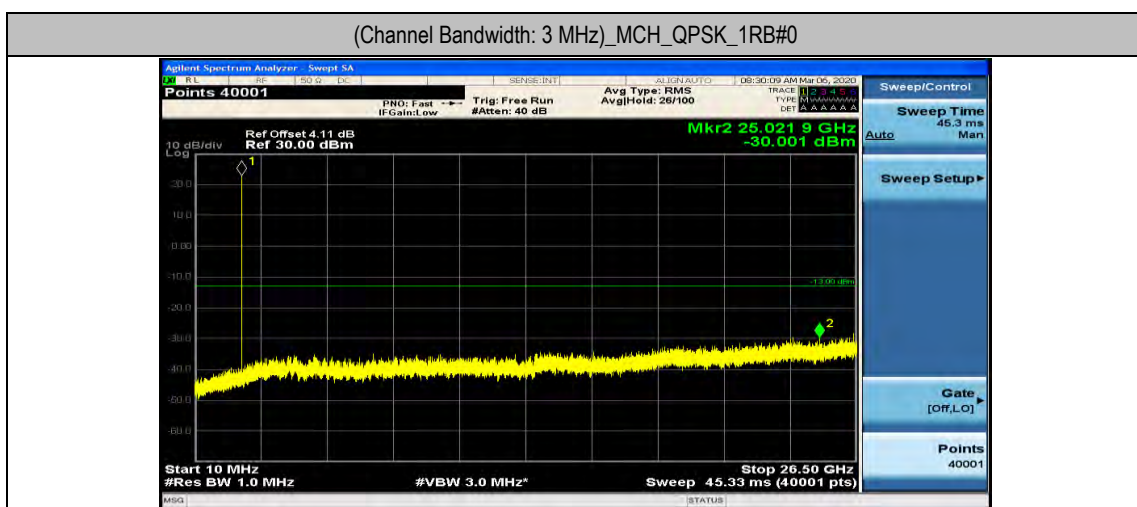
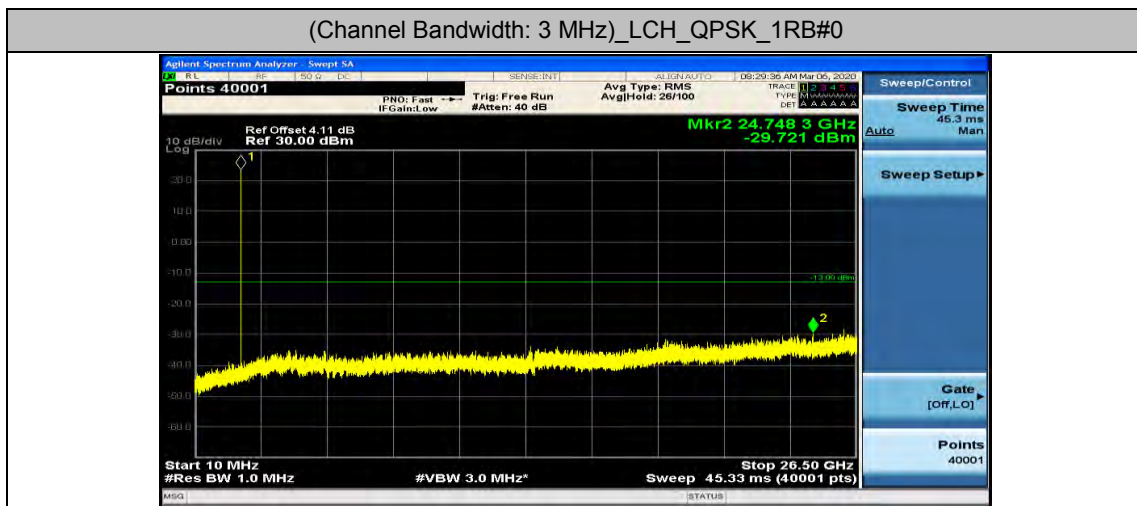
Test Graphs

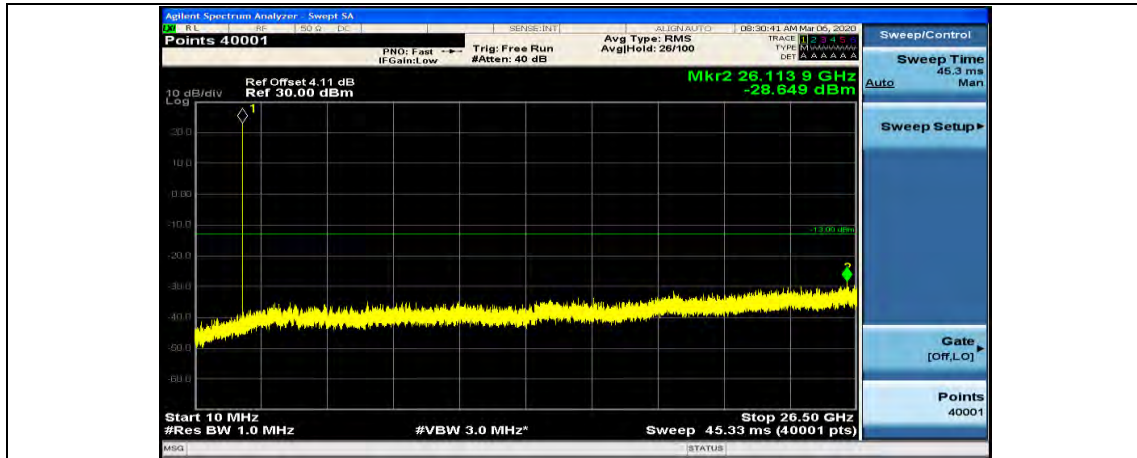
Channel Bandwidth: 1.4 MHz





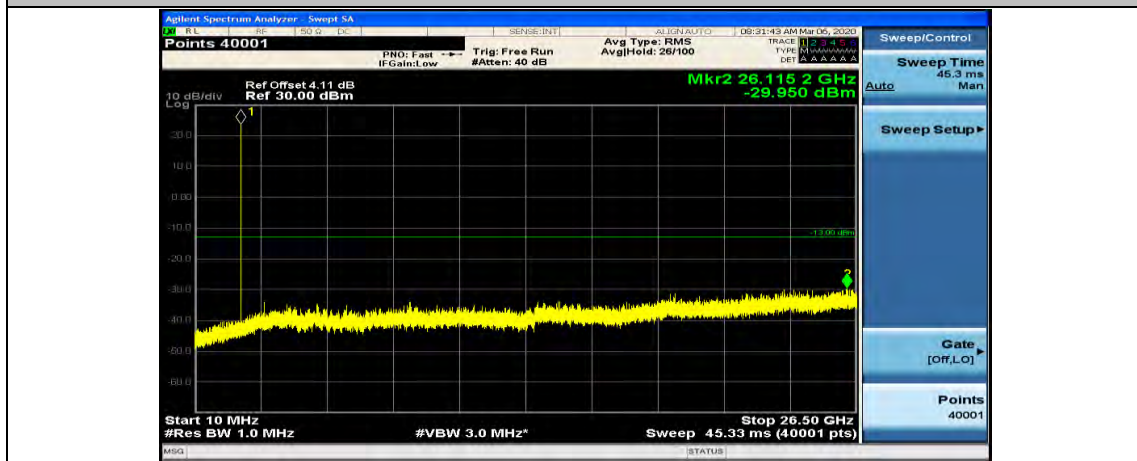
Channel Bandwidth: 3 MHz



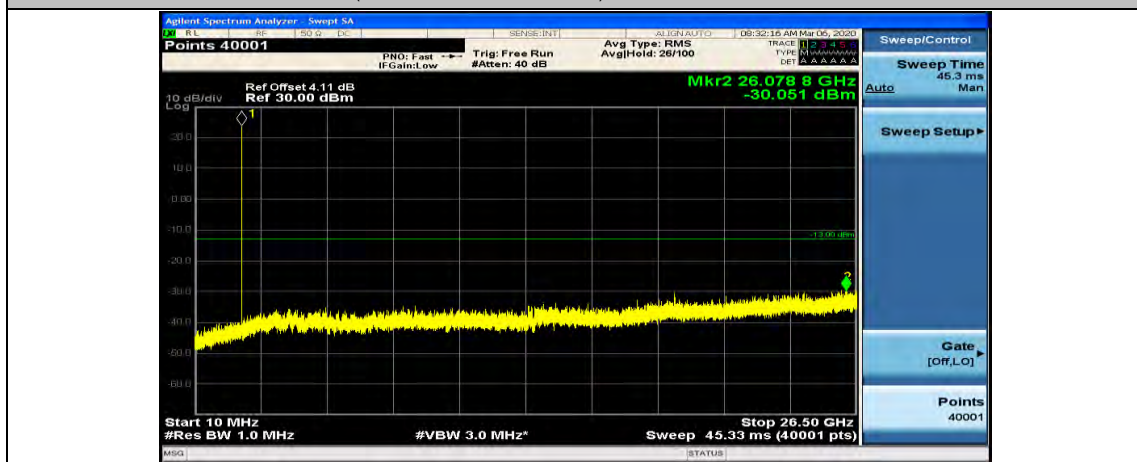


Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



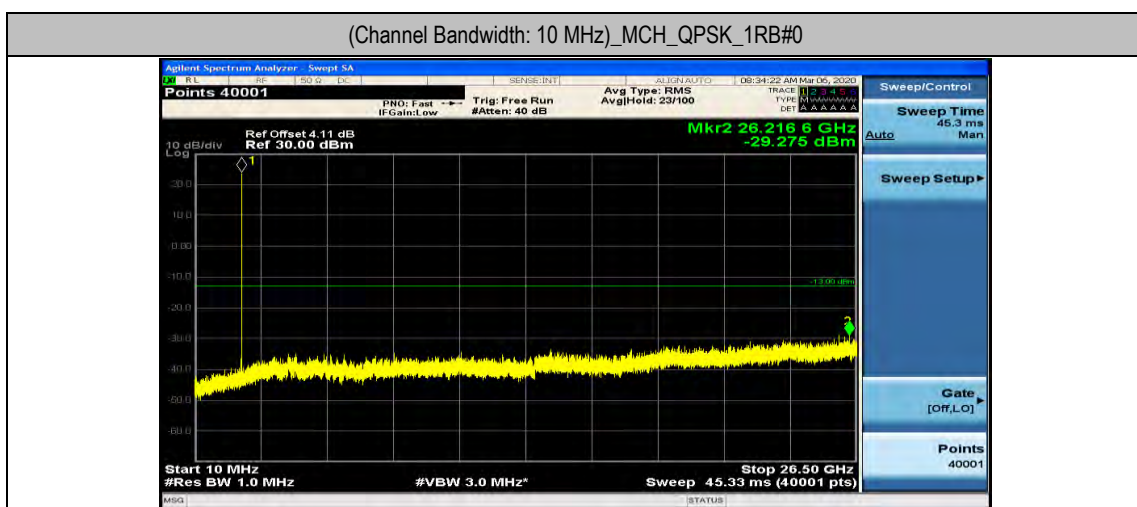
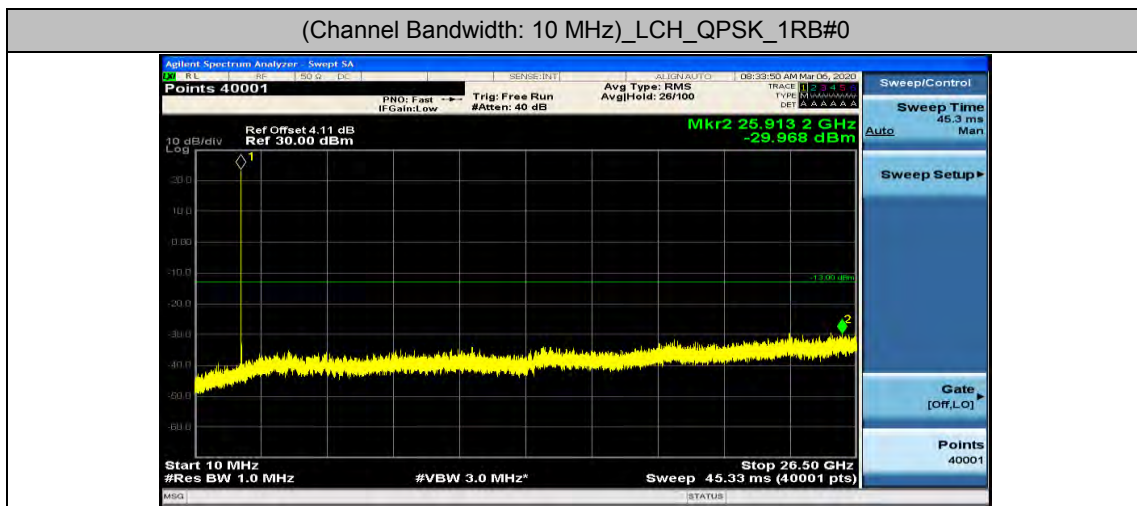
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

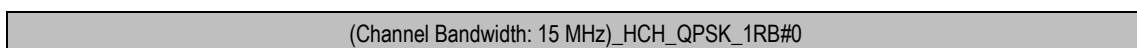
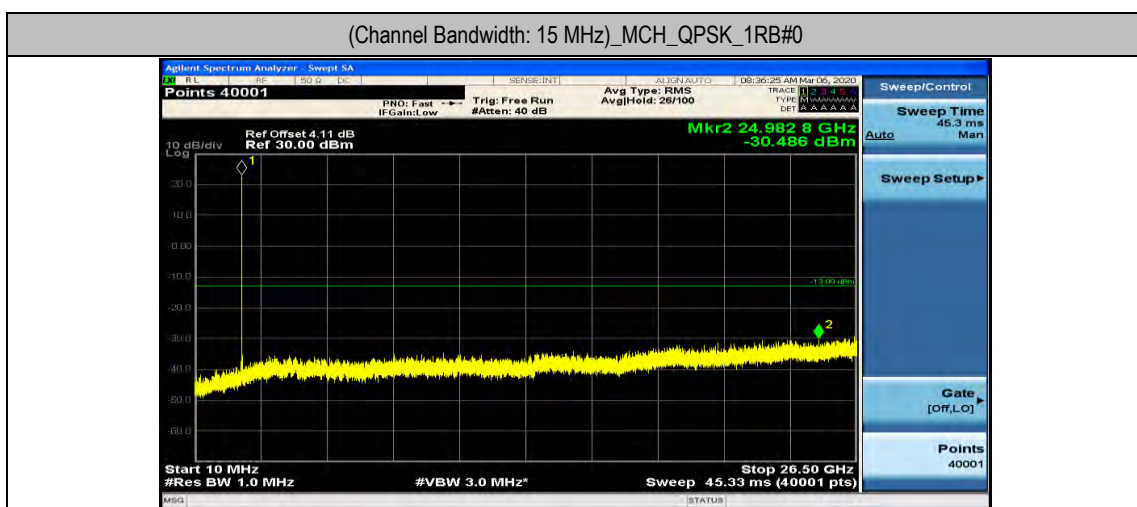
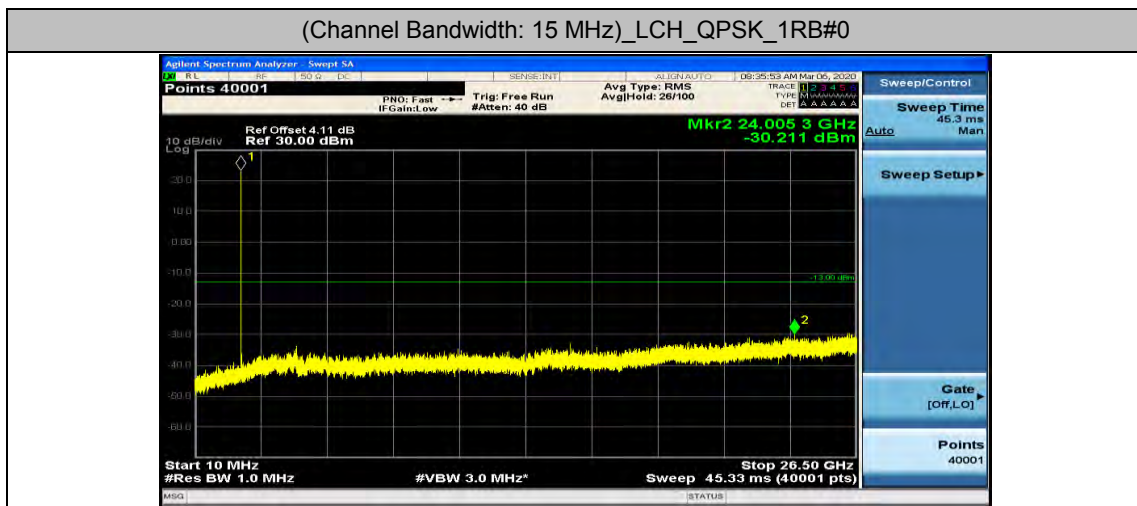


Channel Bandwidth: 10 MHz





Channel Bandwidth: 15 MHz



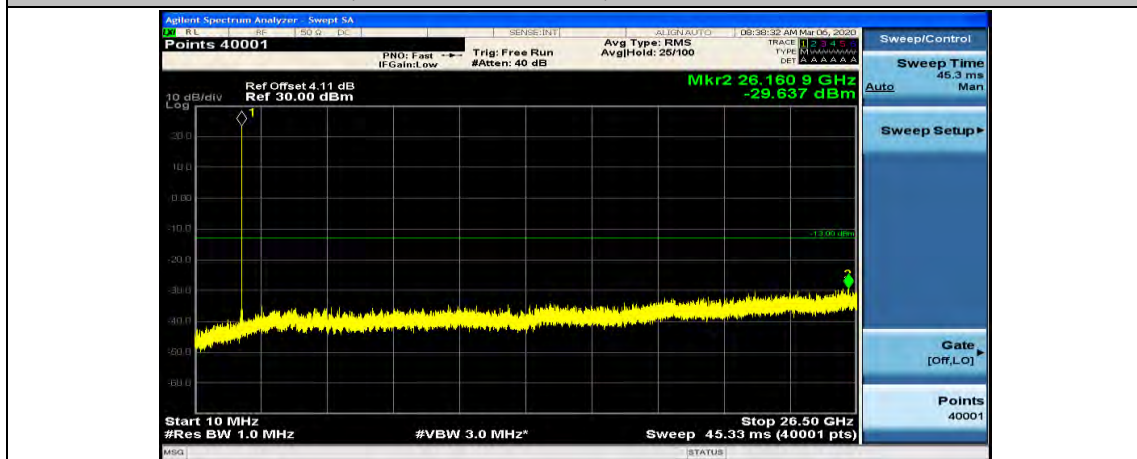


Channel Bandwidth: 20 MHz

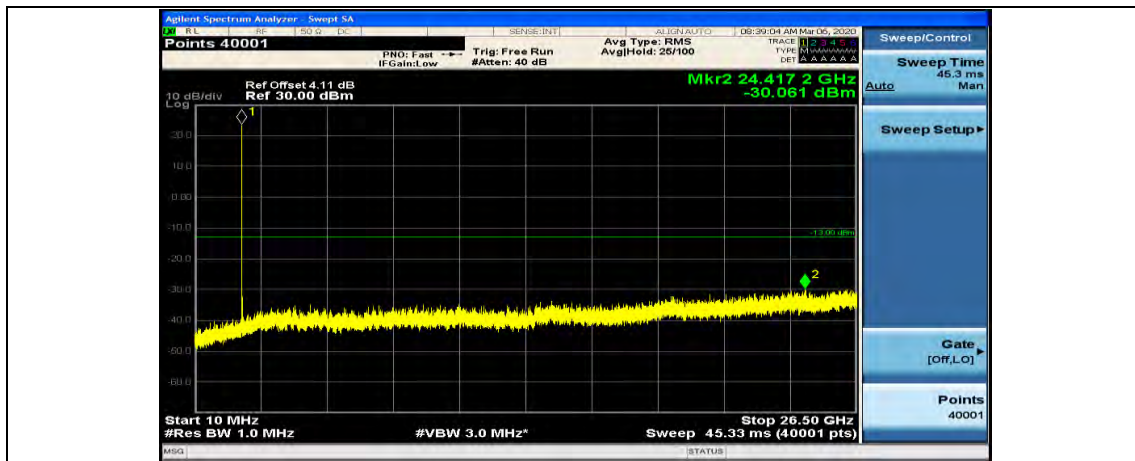
(Channel Bandwidth: 20 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 20 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 20 MHz)_HCH_QPSK_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-17.20	-0.009294	± 2.5	PASS
		VN	TN	-28.00	-0.015129	± 2.5	PASS
		VH	TN	-2.60	-0.001405	± 2.5	PASS
	MCH	VL	TN	6.90	0.003670	± 2.5	PASS
		VN	TN	7.30	0.003883	± 2.5	PASS
		VH	TN	-9.10	-0.004840	± 2.5	PASS
	HCH	VL	TN	-8.00	-0.004190	± 2.5	PASS
		VN	TN	6.20	0.003247	± 2.5	PASS
		VH	TN	-4.40	-0.002305	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-8.80	-0.004755	± 2.5	PASS
		VN	-20	-13.30	-0.007186	± 2.5	PASS
		VN	-10	0.70	0.000378	± 2.5	PASS
		VN	0	4.70	0.002540	± 2.5	PASS
		VN	10	-6.10	-0.003296	± 2.5	PASS
		VN	20	1.60	0.000865	± 2.5	PASS
		VN	30	-9.30	-0.005025	± 2.5	PASS
		VN	40	-0.40	-0.000216	± 2.5	PASS
		VN	50	-9.60	-0.005187	± 2.5	PASS
	MCH	VN	-30	-12.00	-0.006383	± 2.5	PASS
		VN	-20	-12.90	-0.006862	± 2.5	PASS
		VN	-10	2.80	0.001489	± 2.5	PASS

		VN	0	-3.50	-0.001862	± 2.5	PASS
		VN	10	-3.70	-0.001968	± 2.5	PASS
		VN	20	-1.40	-0.000745	± 2.5	PASS
		VN	30	0.60	0.000319	± 2.5	PASS
		VN	40	-1.20	-0.000638	± 2.5	PASS
		VN	50	-3.30	-0.001755	± 2.5	PASS
	HCH	VN	-30	1.30	0.000681	± 2.5	PASS
		VN	-20	1.70	0.000890	± 2.5	PASS
		VN	-10	-7.60	-0.003981	± 2.5	PASS
		VN	0	-1.00	-0.000524	± 2.5	PASS
		VN	10	4.80	0.002514	± 2.5	PASS
		VN	20	-5.80	-0.003038	± 2.5	PASS
		VN	30	-5.40	-0.002828	± 2.5	PASS
		VN	40	3.60	0.001886	± 2.5	PASS
		VN	50	-10.10	-0.005290	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	13.00	0.007021	± 2.5	PASS
		VN	TN	9.30	0.005023	± 2.5	PASS
		VH	TN	1.00	0.000540	± 2.5	PASS
	MCH	VL	TN	14.20	0.007553	± 2.5	PASS
		VN	TN	12.70	0.006755	± 2.5	PASS
		VH	TN	7.20	0.003830	± 2.5	PASS
	HCH	VL	TN	-1.10	-0.000576	± 2.5	PASS
		VN	TN	2.00	0.001048	± 2.5	PASS
		VH	TN	18.00	0.009431	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	8.00	0.004321	± 2.5	PASS
		VN	-20	14.70	0.007940	± 2.5	PASS
		VN	-10	5.40	0.002917	± 2.5	PASS
		VN	0	3.50	0.001890	± 2.5	PASS
		VN	10	8.80	0.004753	± 2.5	PASS
		VN	20	7.90	0.004267	± 2.5	PASS
		VN	30	7.20	0.003889	± 2.5	PASS
		VN	40	1.70	0.000918	± 2.5	PASS
		VN	50	7.20	0.003889	± 2.5	PASS
	MCH	VN	-30	13.70	0.007287	± 2.5	PASS
		VN	-20	6.40	0.003404	± 2.5	PASS
		VN	-10	6.30	0.003351	± 2.5	PASS
		VN	0	13.00	0.006915	± 2.5	PASS
		VN	10	0.60	0.000319	± 2.5	PASS

		VN	20	2.70	0.001436	± 2.5	PASS
		VN	30	6.60	0.003511	± 2.5	PASS
		VN	40	12.20	0.006489	± 2.5	PASS
		VN	50	6.60	0.003511	± 2.5	PASS
	HCH	VN	-30	7.00	0.003668	± 2.5	PASS
		VN	-20	13.40	0.007021	± 2.5	PASS
		VN	-10	3.40	0.001782	± 2.5	PASS
		VN	0	11.00	0.005764	± 2.5	PASS
		VN	10	1.10	0.000576	± 2.5	PASS
		VN	20	8.90	0.004663	± 2.5	PASS
		VN	30	-1.60	-0.000838	± 2.5	PASS
		VN	40	0.40	0.000210	± 2.5	PASS
		VN	50	-1.60	-0.000838	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-4.90	-0.002645	± 2.5	PASS
		VN	TN	-8.40	-0.004534	± 2.5	PASS
		VH	TN	-13.50	-0.007287	± 2.5	PASS
	MCH	VL	TN	6.30	0.003351	± 2.5	PASS
		VN	TN	7.80	0.004149	± 2.5	PASS
		VH	TN	7.60	0.004043	± 2.5	PASS
	HCH	VL	TN	9.50	0.004980	± 2.5	PASS
		VN	TN	-6.30	-0.003303	± 2.5	PASS
		VH	TN	-8.30	-0.004351	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-3.70	-0.001997	± 2.5	PASS
		VN	-20	-12.40	-0.006694	± 2.5	PASS
		VN	-10	-5.00	-0.002699	± 2.5	PASS
		VN	0	1.20	0.000648	± 2.5	PASS
		VN	10	-2.30	-0.001242	± 2.5	PASS
		VN	20	-8.10	-0.004372	± 2.5	PASS
		VN	30	-10.10	-0.005452	± 2.5	PASS
		VN	40	-1.30	-0.000702	± 2.5	PASS
	MCH	VN	50	-1.40	-0.000756	± 2.5	PASS
		VN	-30	12.10	0.006436	± 2.5	PASS
		VN	-20	-1.50	-0.000798	± 2.5	PASS
		VN	-10	4.60	0.002447	± 2.5	PASS
		VN	0	13.20	0.007021	± 2.5	PASS
		VN	10	6.90	0.003670	± 2.5	PASS
		VN	20	16.60	0.008830	± 2.5	PASS
		VN	30	12.50	0.006649	± 2.5	PASS

		VN	40	6.50	0.003457	± 2.5	PASS
		VN	50	2.40	0.001277	± 2.5	PASS
	HCH	VN	-30	9.30	0.004875	± 2.5	PASS
		VN	-20	-8.70	-0.004561	± 2.5	PASS
		VN	-10	-7.60	-0.003984	± 2.5	PASS
		VN	0	-6.90	-0.003617	± 2.5	PASS
		VN	10	-7.30	-0.003827	± 2.5	PASS
		VN	20	-2.70	-0.001415	± 2.5	PASS
		VN	30	-3.50	-0.001835	± 2.5	PASS
		VN	40	-2.10	-0.001101	± 2.5	PASS
		VN	50	2.50	0.001311	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.60	0.002480	± 2.5	PASS
		VN	TN	-6.70	-0.003612	± 2.5	PASS
		VH	TN	-4.60	-0.002480	± 2.5	PASS
	MCH	VL	TN	0.70	0.000372	± 2.5	PASS
		VN	TN	5.30	0.002819	± 2.5	PASS
		VH	TN	15.90	0.008457	± 2.5	PASS
	HCH	VL	TN	-7.80	-0.004094	± 2.5	PASS
		VN	TN	-3.40	-0.001785	± 2.5	PASS
		VH	TN	-5.50	-0.002887	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.10	0.001132	± 2.5	PASS
		VN	-20	1.90	0.001024	± 2.5	PASS
		VN	-10	-9.60	-0.005175	± 2.5	PASS
		VN	0	-6.50	-0.003504	± 2.5	PASS
		VN	10	-8.40	-0.004528	± 2.5	PASS
		VN	20	6.40	0.003450	± 2.5	PASS
		VN	30	7.20	0.003881	± 2.5	PASS
		VN	40	-8.70	-0.004690	± 2.5	PASS
		VN	50	-9.50	-0.005121	± 2.5	PASS
	MCH	VN	-30	-0.40	-0.000213	± 2.5	PASS
		VN	-20	-3.10	-0.001649	± 2.5	PASS
		VN	-10	-1.30	-0.000691	± 2.5	PASS
		VN	0	13.70	0.007287	± 2.5	PASS
		VN	10	11.90	0.006330	± 2.5	PASS
		VN	20	-3.00	-0.001596	± 2.5	PASS
		VN	30	0.50	0.000266	± 2.5	PASS
VN		40	2.10	0.001117	± 2.5	PASS	
VN	50	4.60	0.002447	± 2.5	PASS		

	HCH	VN	-30	-1.90	-0.000997	± 2.5	PASS
		VN	-20	-12.10	-0.006352	± 2.5	PASS
		VN	-10	-0.80	-0.000420	± 2.5	PASS
		VN	0	-5.90	-0.003097	± 2.5	PASS
		VN	10	-1.90	-0.000997	± 2.5	PASS
		VN	20	-13.10	-0.006877	± 2.5	PASS
		VN	30	-1.40	-0.000735	± 2.5	PASS
		VN	40	-7.60	-0.003990	± 2.5	PASS
		VN	50	-14.80	-0.007769	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	15.00	0.008075	± 2.5	PASS
		VN	TN	5.40	0.002907	± 2.5	PASS
		VH	TN	1.10	0.000592	± 2.5	PASS
	MCH	VL	TN	5.20	0.002766	± 2.5	PASS
		VN	TN	5.50	0.002926	± 2.5	PASS
		VH	TN	8.00	0.004255	± 2.5	PASS
	HCH	VL	TN	17.20	0.009041	± 2.5	PASS
		VN	TN	12.20	0.006413	± 2.5	PASS
		VH	TN	7.80	0.004100	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	10.00	0.005384	± 2.5	PASS
		VN	-20	6.60	0.003553	± 2.5	PASS
		VN	-10	4.60	0.002476	± 2.5	PASS
		VN	0	11.90	0.006406	± 2.5	PASS
		VN	10	7.10	0.003822	± 2.5	PASS
		VN	20	-1.80	-0.000969	± 2.5	PASS
		VN	30	4.40	0.002369	± 2.5	PASS
		VN	40	8.00	0.004307	± 2.5	PASS
		VN	50	10.80	0.005814	± 2.5	PASS
	MCH	VN	-30	-0.90	-0.000479	± 2.5	PASS
		VN	-20	13.50	0.007181	± 2.5	PASS
		VN	-10	3.80	0.002021	± 2.5	PASS
		VN	0	-1.70	-0.000904	± 2.5	PASS
		VN	10	-1.10	-0.000585	± 2.5	PASS
		VN	20	13.80	0.007340	± 2.5	PASS
		VN	30	-3.20	-0.001702	± 2.5	PASS
		VN	40	1.00	0.000532	± 2.5	PASS
		VN	50	4.40	0.002340	± 2.5	PASS
	HCH	VN	-30	-1.00	-0.000526	± 2.5	PASS
VN		-20	12.60	0.006623	± 2.5	PASS	

		VN	-10	4.70	0.002470	± 2.5	PASS
		VN	0	0.30	0.000158	± 2.5	PASS
		VN	10	-1.70	-0.000894	± 2.5	PASS
		VN	20	2.50	0.001314	± 2.5	PASS
		VN	30	-0.10	-0.000053	± 2.5	PASS
		VN	40	9.40	0.004941	± 2.5	PASS
		VN	50	9.80	0.005151	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.50	0.001344	± 2.5	PASS
		VN	TN	-13.10	-0.007043	± 2.5	PASS
		VH	TN	-3.60	-0.001935	± 2.5	PASS
	MCH	VL	TN	7.80	0.004149	± 2.5	PASS
		VN	TN	15.70	0.008351	± 2.5	PASS
		VH	TN	2.70	0.001436	± 2.5	PASS
	HCH	VL	TN	6.80	0.003579	± 2.5	PASS
		VN	TN	9.20	0.004842	± 2.5	PASS
		VH	TN	-3.00	-0.001579	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.60	-0.000860	± 2.5	PASS
		VN	-20	-8.80	-0.004731	± 2.5	PASS
		VN	-10	-4.00	-0.002151	± 2.5	PASS
		VN	0	-3.20	-0.001720	± 2.5	PASS
		VN	10	-1.20	-0.000645	± 2.5	PASS
		VN	20	-12.30	-0.006613	± 2.5	PASS
		VN	30	-1.40	-0.000753	± 2.5	PASS
		VN	40	-8.70	-0.004677	± 2.5	PASS
		VN	50	-12.50	-0.006720	± 2.5	PASS
	MCH	VN	-30	3.90	0.002074	± 2.5	PASS
		VN	-20	12.80	0.006809	± 2.5	PASS
		VN	-10	1.70	0.000904	± 2.5	PASS
		VN	0	12.90	0.006862	± 2.5	PASS
		VN	10	8.00	0.004255	± 2.5	PASS
		VN	20	3.80	0.002021	± 2.5	PASS
		VN	30	0.80	0.000426	± 2.5	PASS
		VN	40	-0.90	-0.000479	± 2.5	PASS
		VN	50	16.20	0.008617	± 2.5	PASS
	HCH	VN	-30	-7.10	-0.003737	± 2.5	PASS
		VN	-20	5.00	0.002632	± 2.5	PASS
		VN	-10	1.20	0.000632	± 2.5	PASS
		VN	0	-4.40	-0.002316	± 2.5	PASS



		VN	10	3.80	0.002000	± 2.5	PASS
		VN	20	-9.80	-0.005158	± 2.5	PASS
		VN	30	-4.20	-0.002211	± 2.5	PASS
		VN	40	-2.10	-0.001105	± 2.5	PASS
		VN	50	-1.90	-0.001000	± 2.5	PASS