

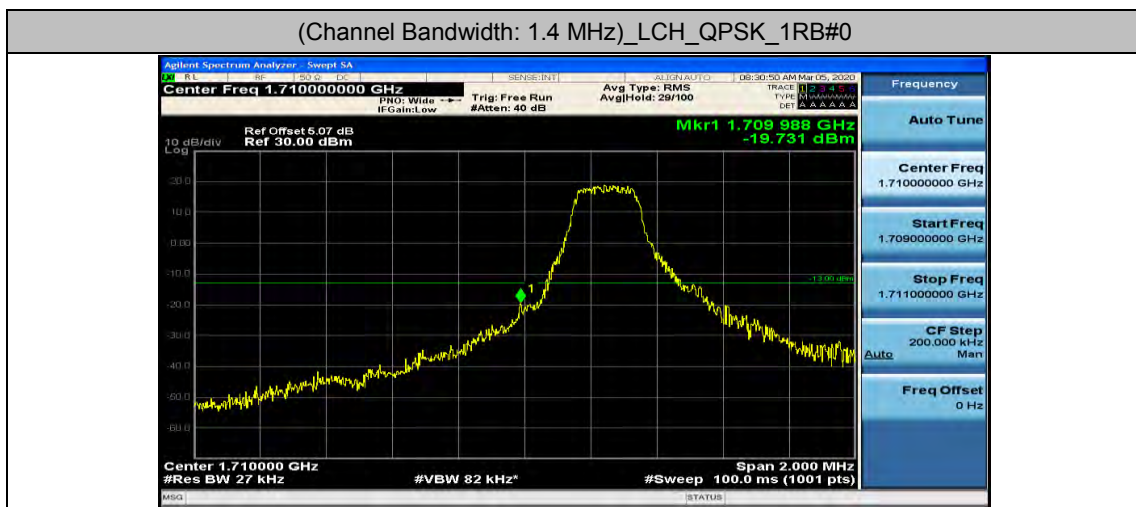


Appendix D: Band Edge

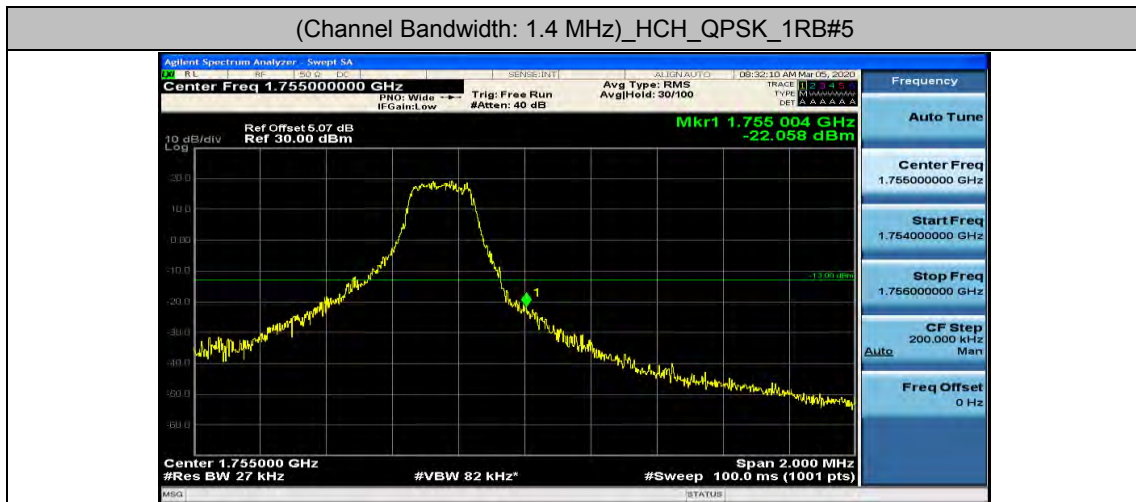
Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5





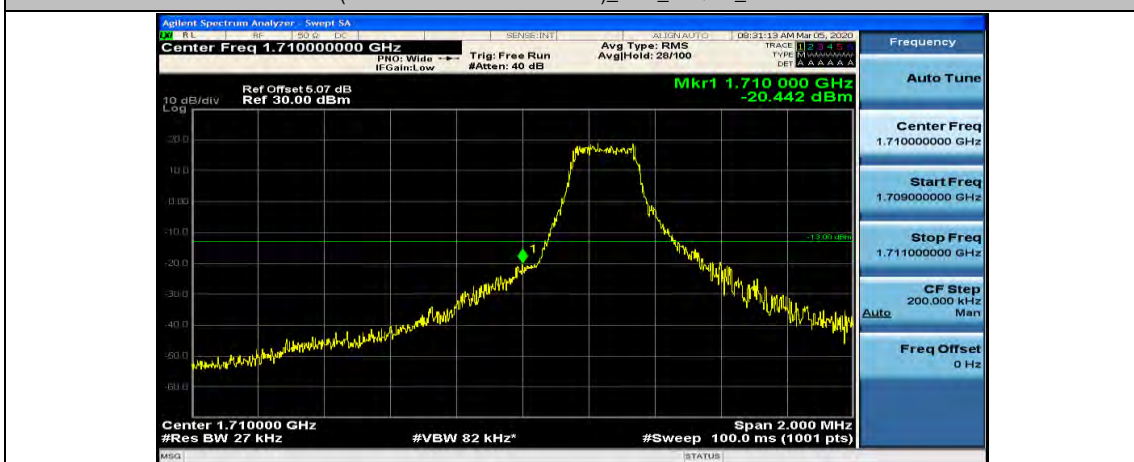
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

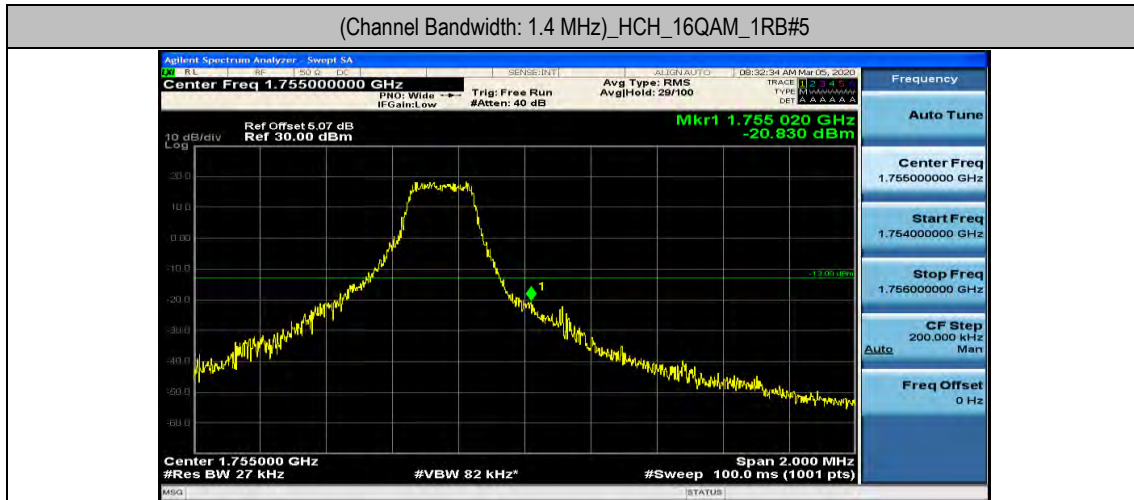


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

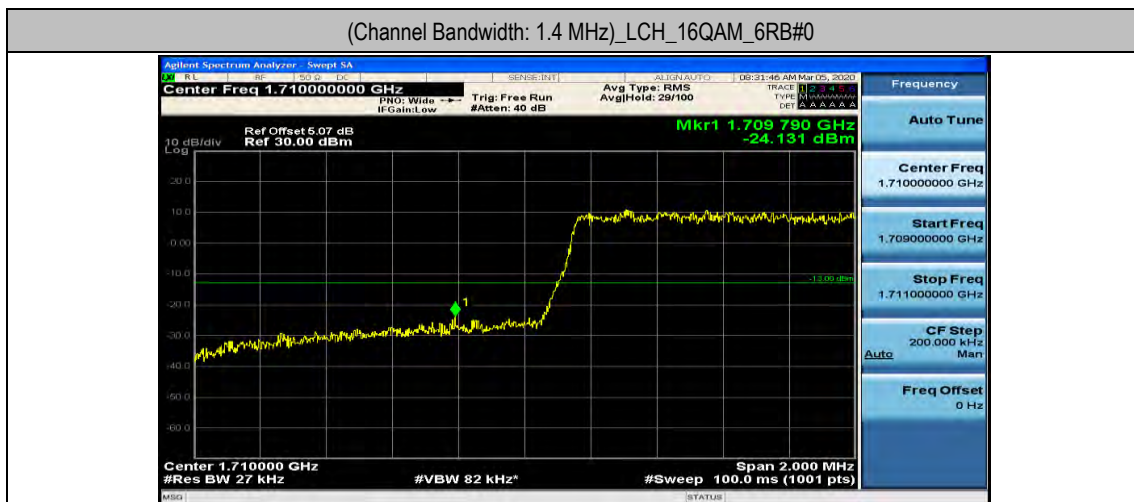




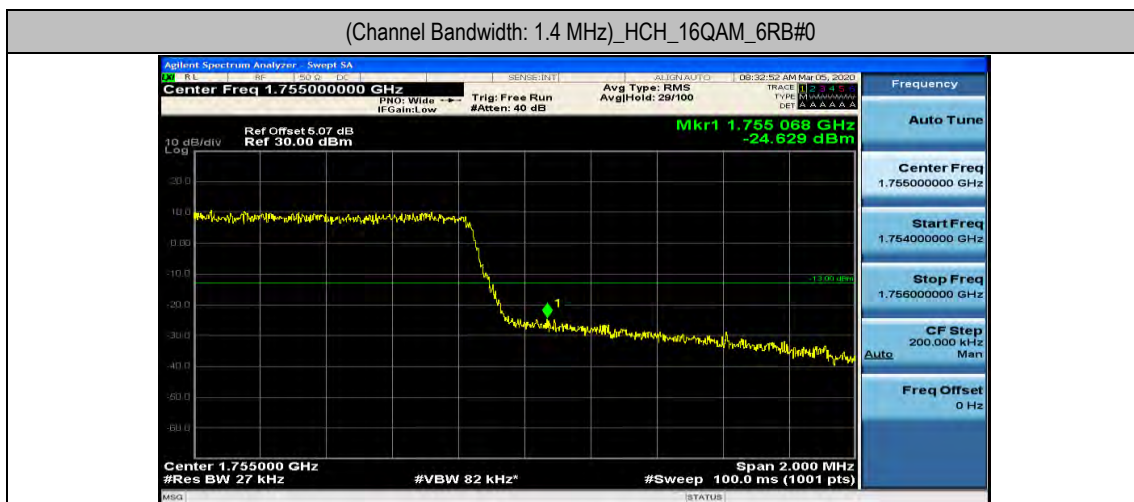
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



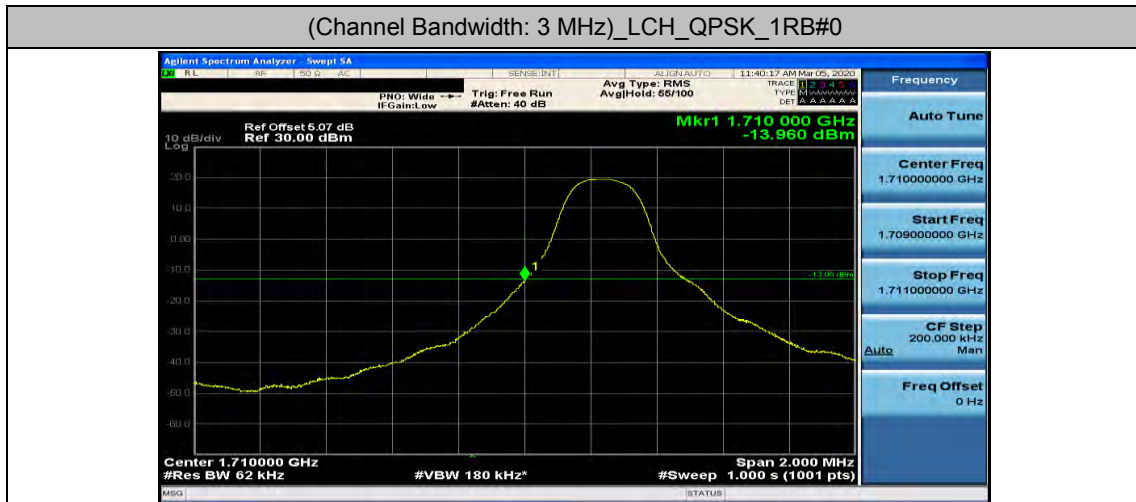
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0



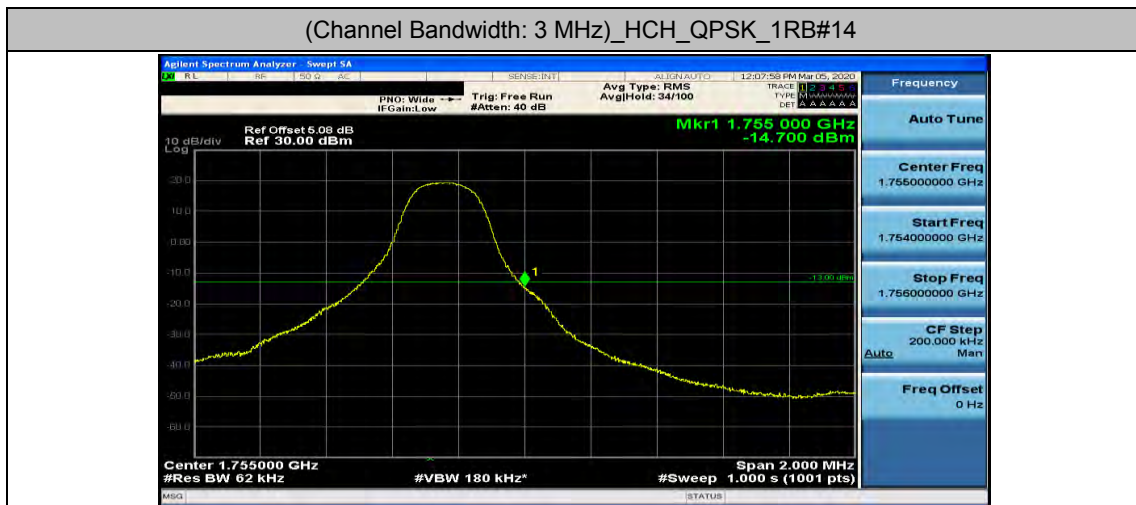


Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



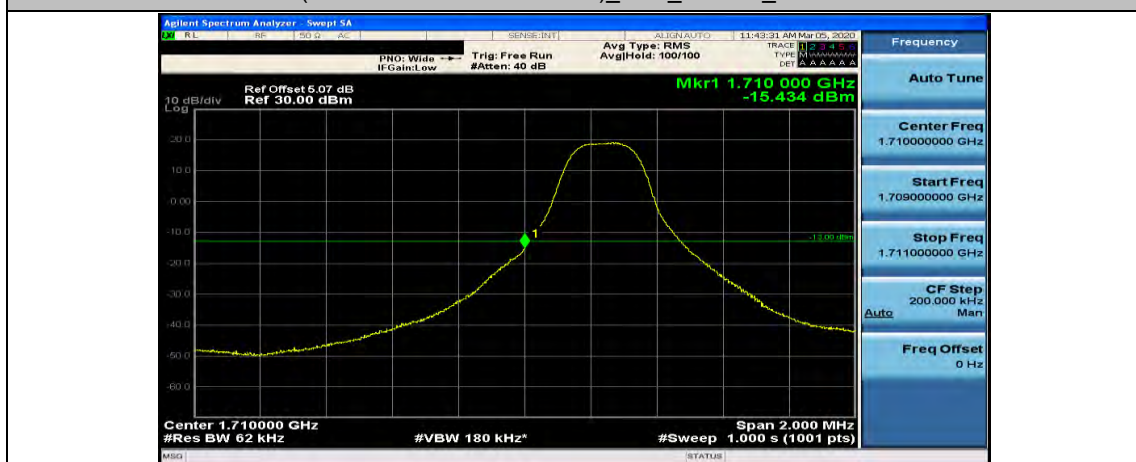
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



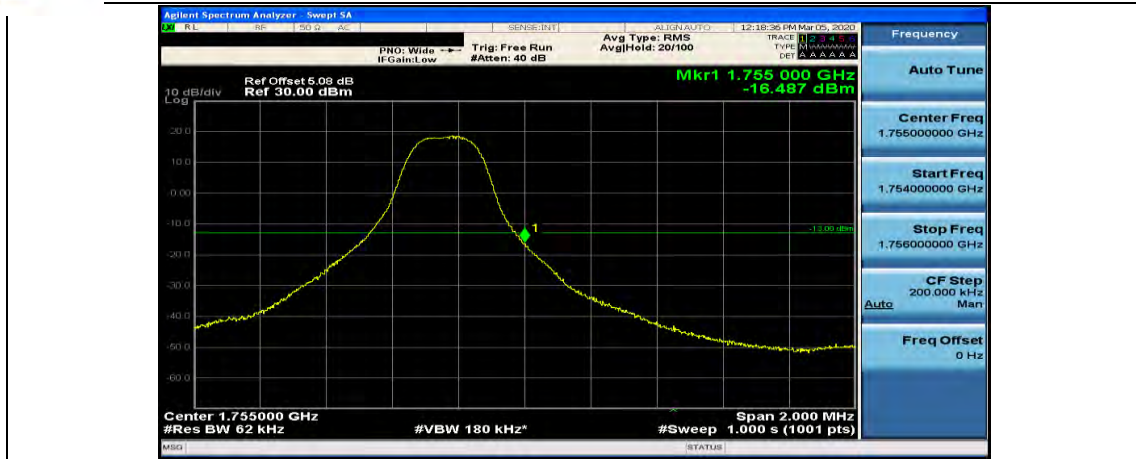
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



(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



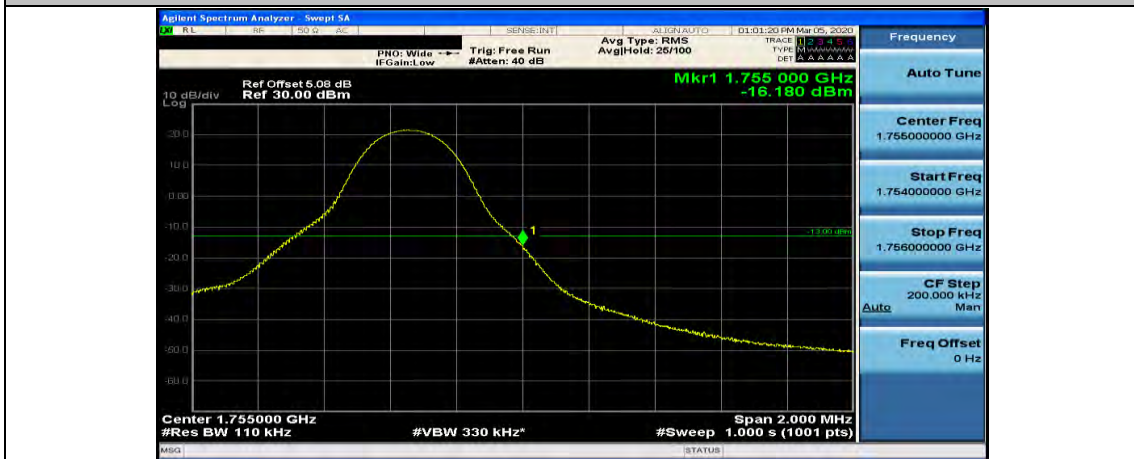


Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



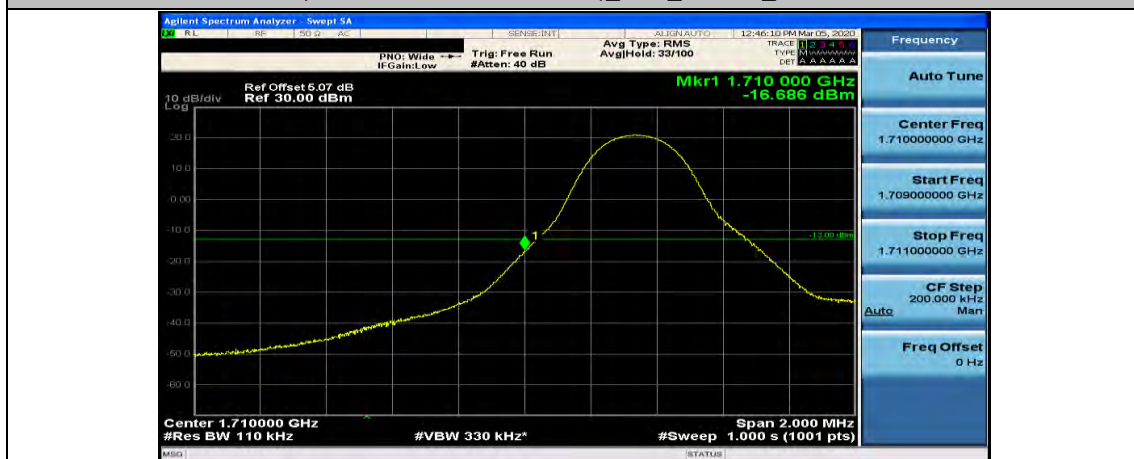
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

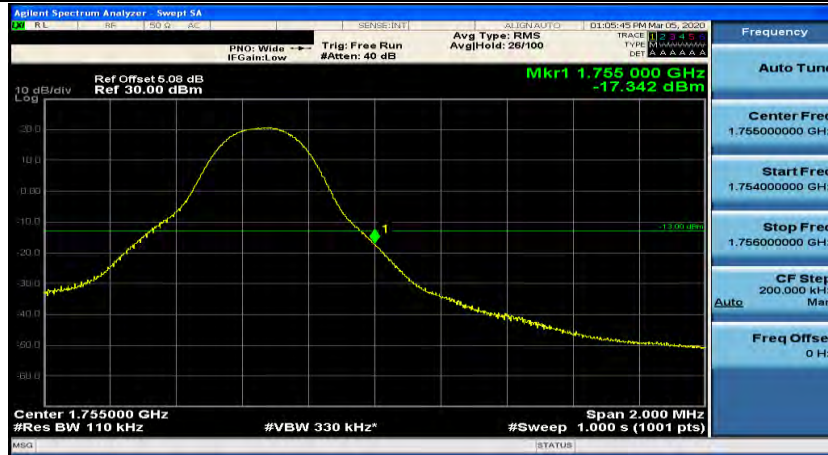


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0





(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



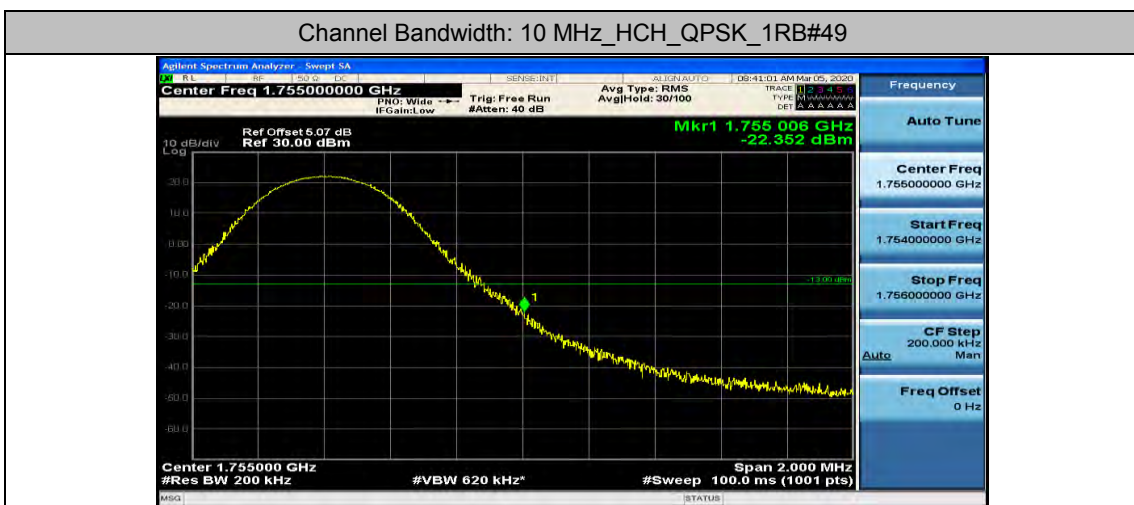
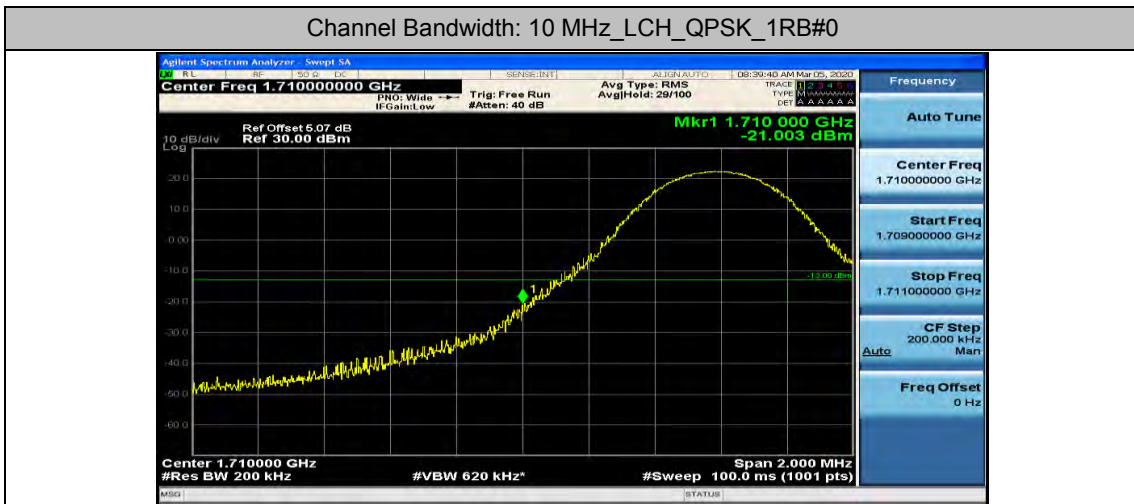
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz





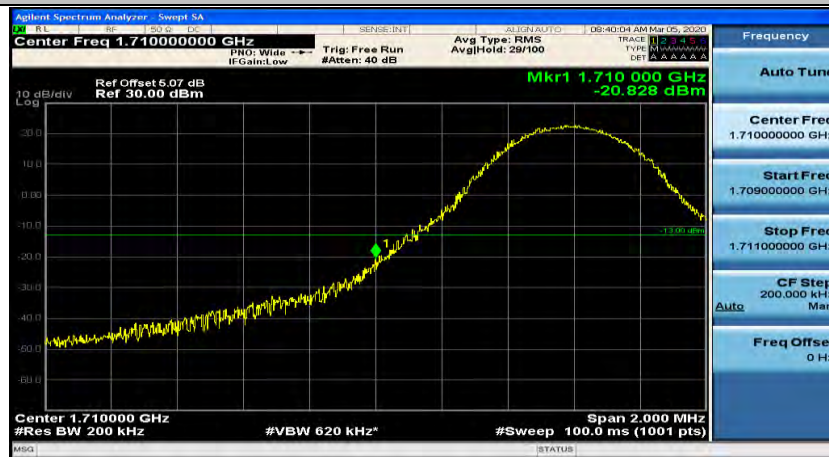
(Channel Bandwidth: 10 MHz)_LCH_QPSK_50RB#0



(Channel Bandwidth: 10 MHz)_HCH_QPSK_50RB#0

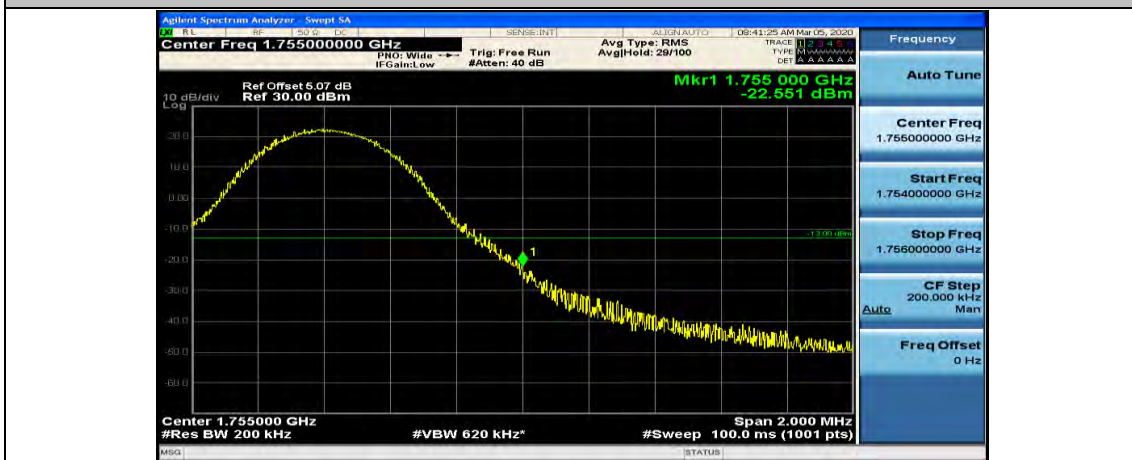


Channel Bandwidth: 10 MHz)_LCH_16QAM_1RB#0

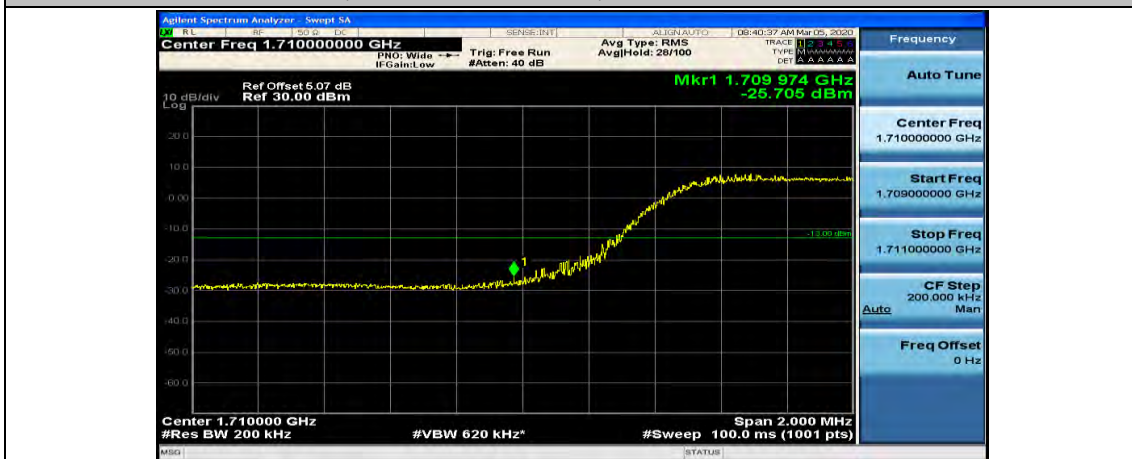




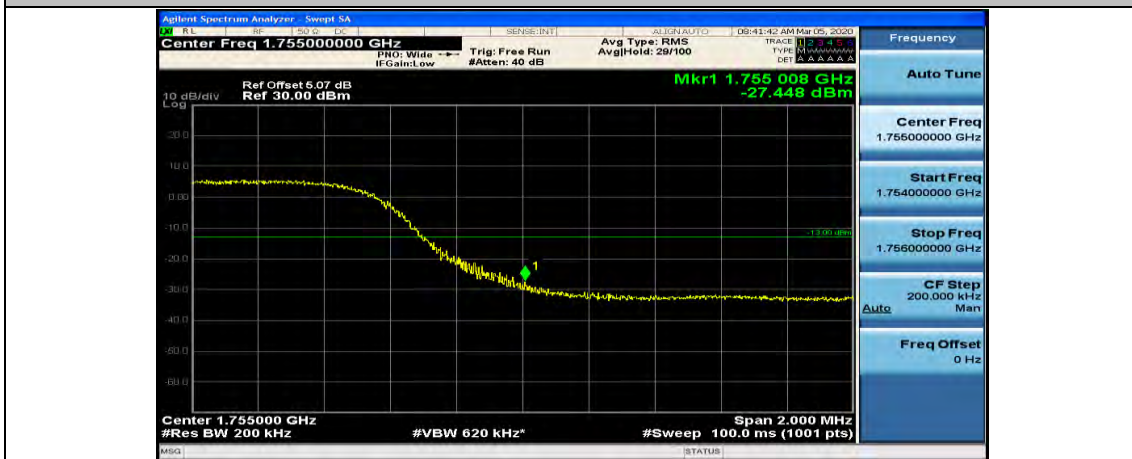
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



(Channel Bandwidth: 10 MHz)_LCH_16QAM_50RB#0



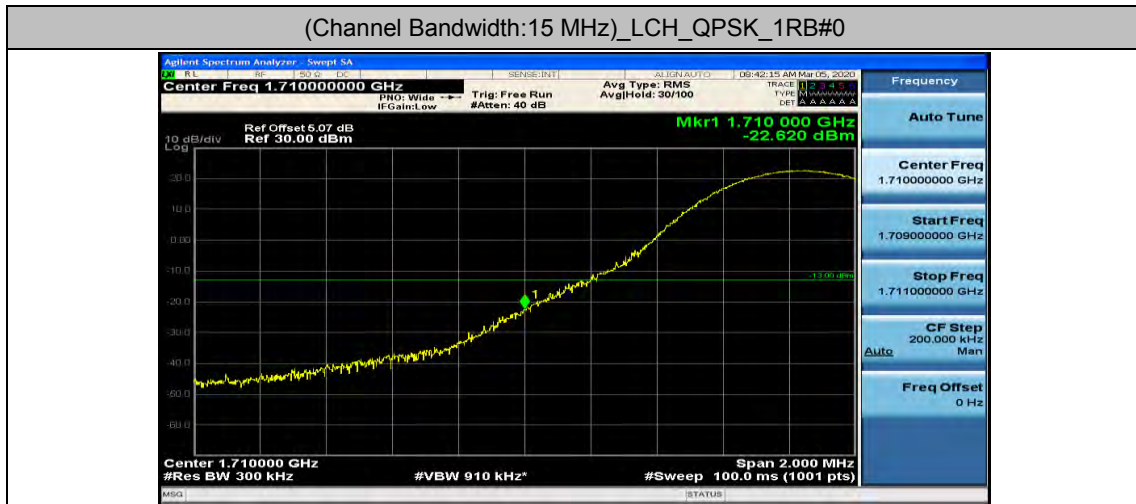
(Channel Bandwidth: 10 MHz)_HCH_16QAM_50RB#0



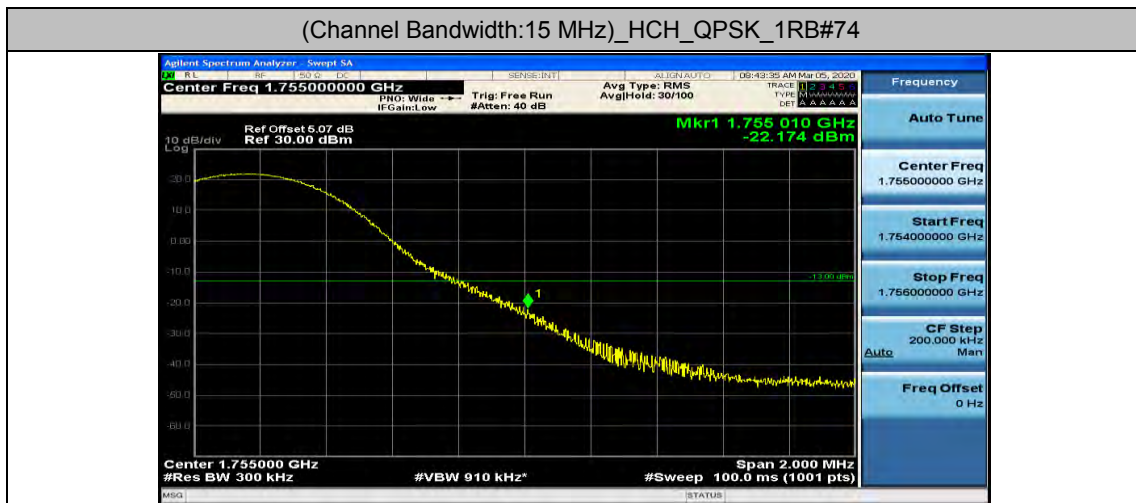


Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0



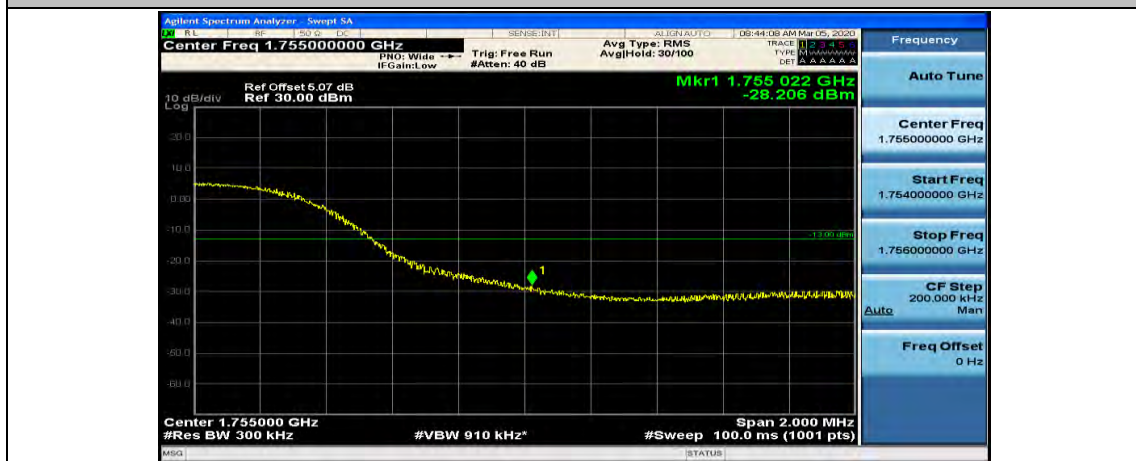
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74



(Channel Bandwidth: 15 MHz)_LCH_QPSK_75RB#0



(Channel Bandwidth: 15 MHz)_HCH_QPSK_75RB#0



(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0



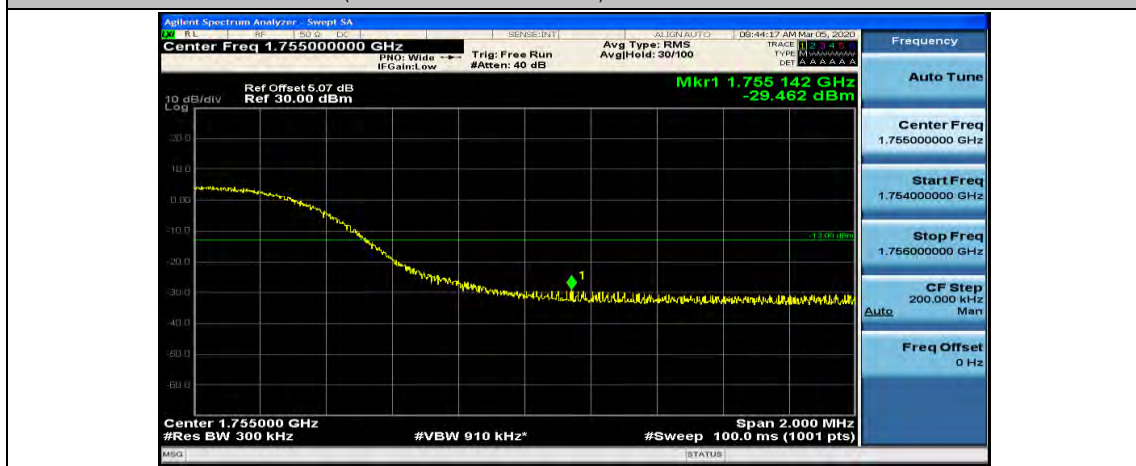
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74



(Channel Bandwidth: 15 MHz)_LCH_16QAM_75RB#0

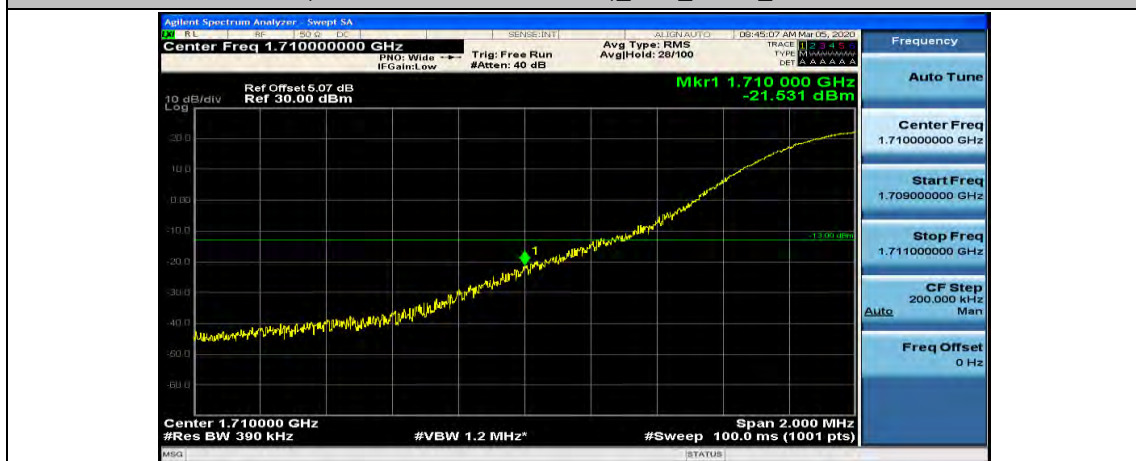


(Channel Bandwidth: 15 MHz)_HCH_16QAM_75RB#0



Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0

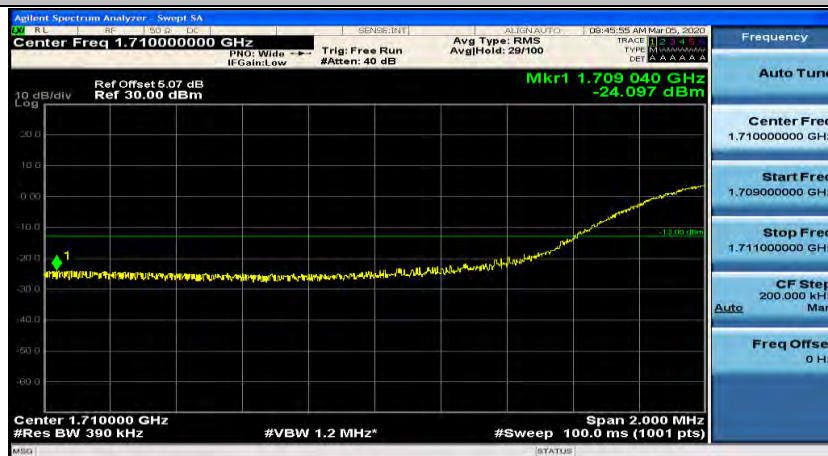




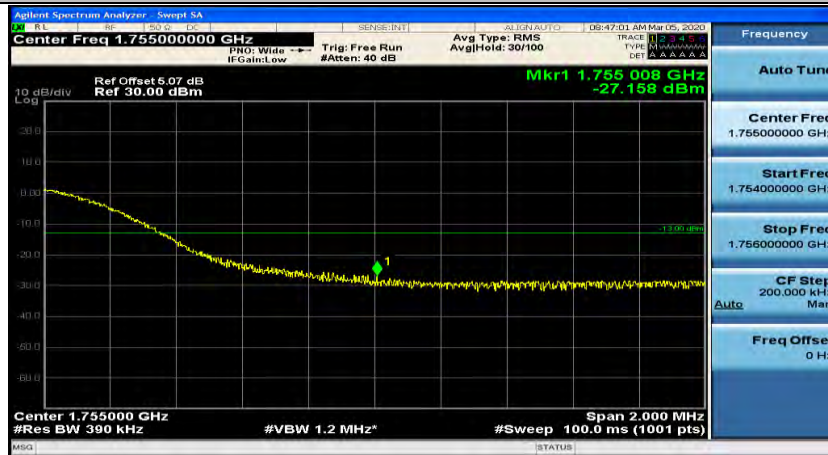
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99



(Channel Bandwidth: 20 MHz)_LCH_QPSK_100RB#0

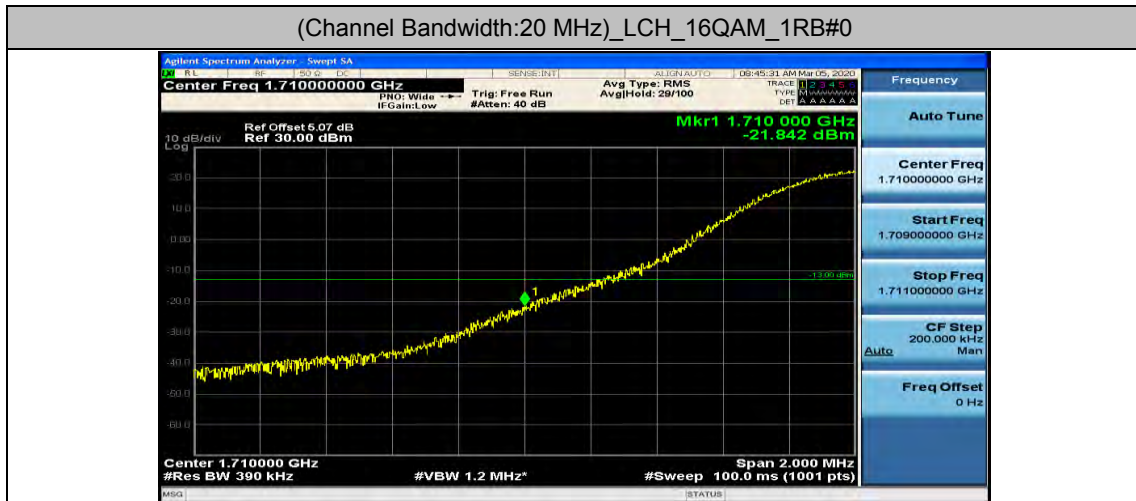


(Channel Bandwidth: 20 MHz)_HCH_QPSK_100RB#0

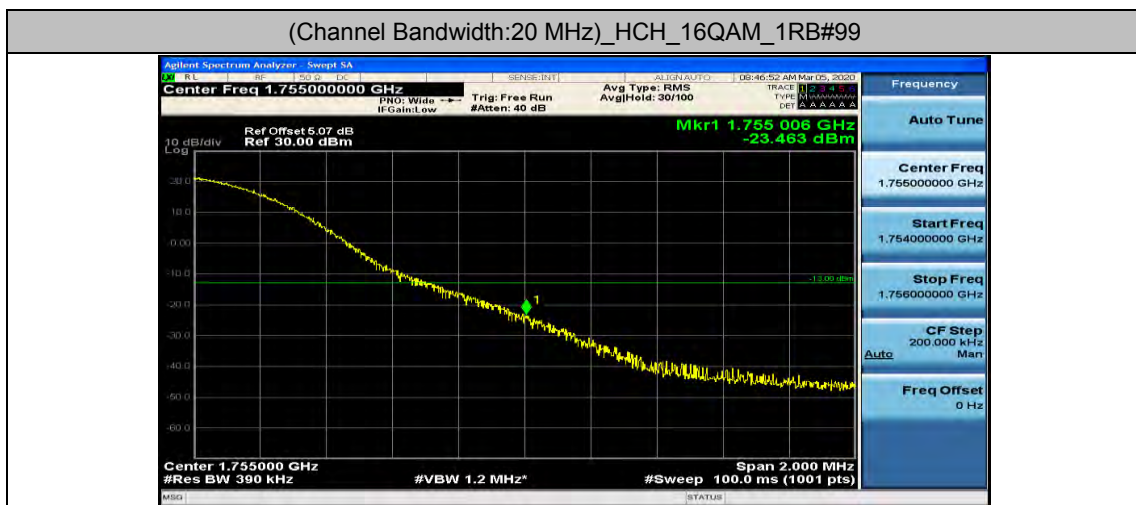




(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



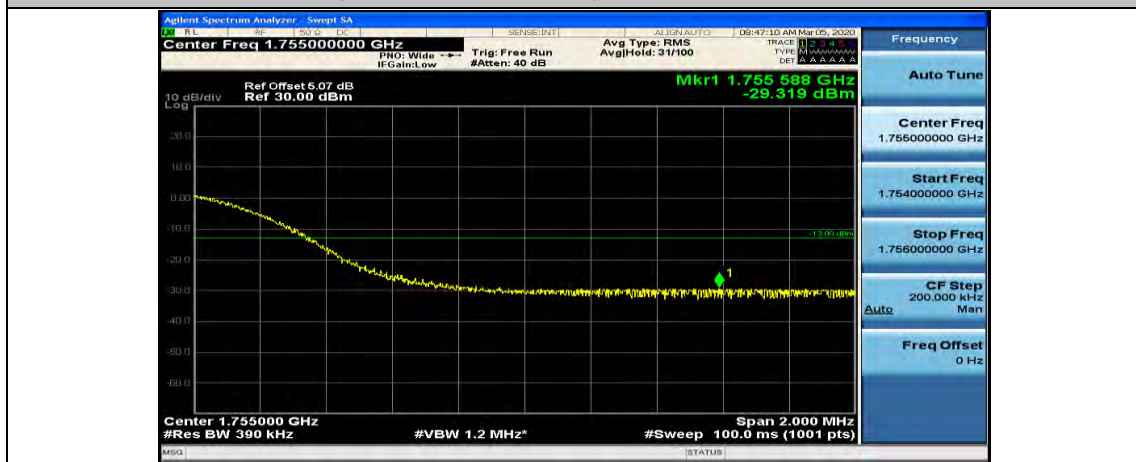
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99



(Channel Bandwidth: 20 MHz)_LCH_16QAM_100RB#0



(Channel Bandwidth: 20 MHz)_HCH_16QAM_100RB#0

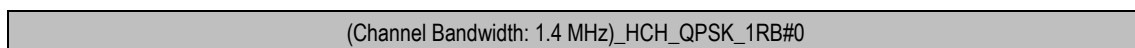
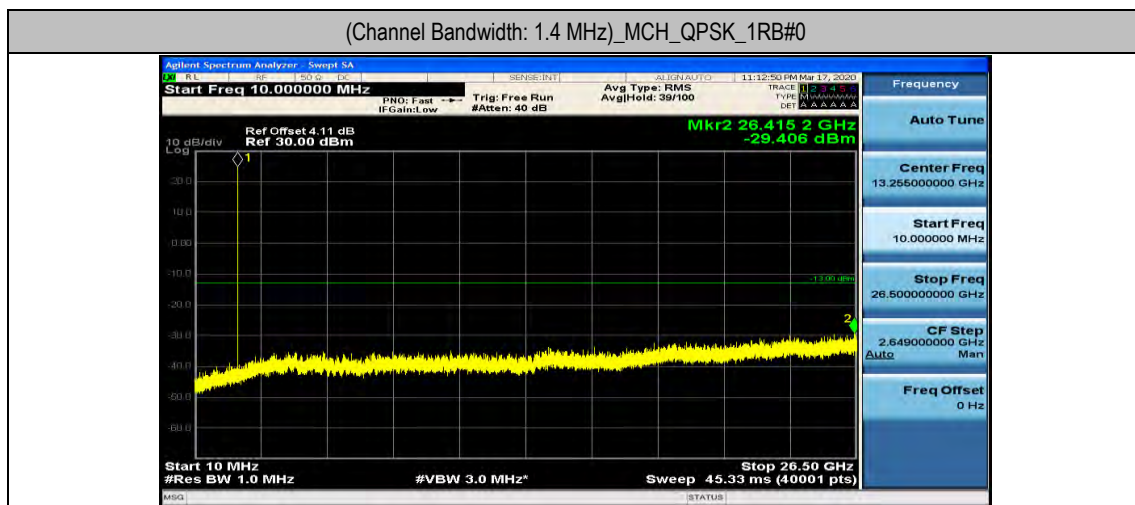
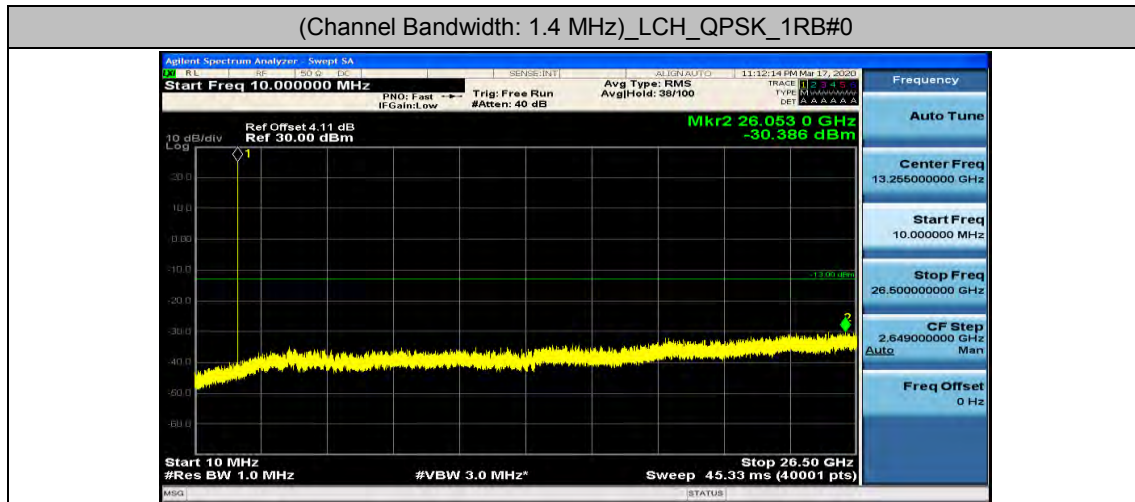




Appendix E: Conducted Spurious Emission

Test Graphs

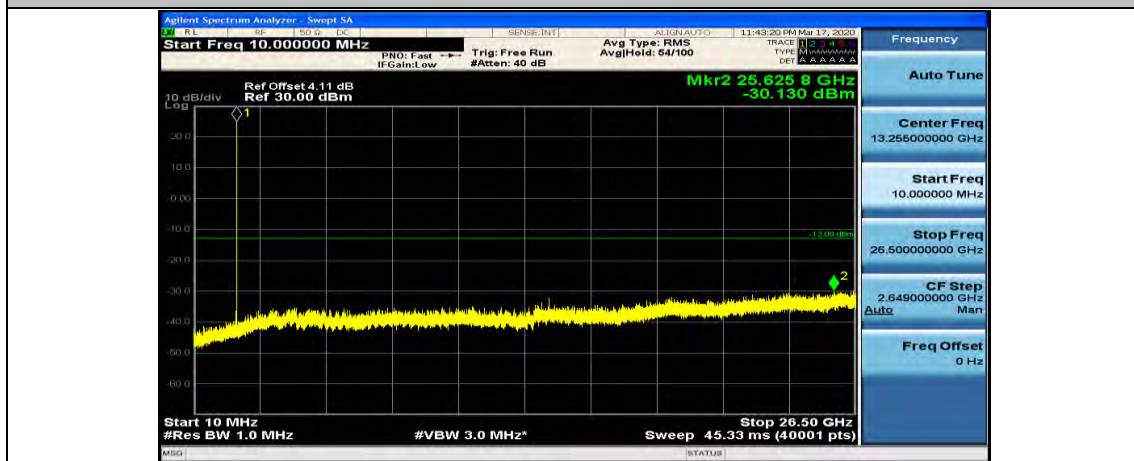
Channel Bandwidth: 1.4 MHz



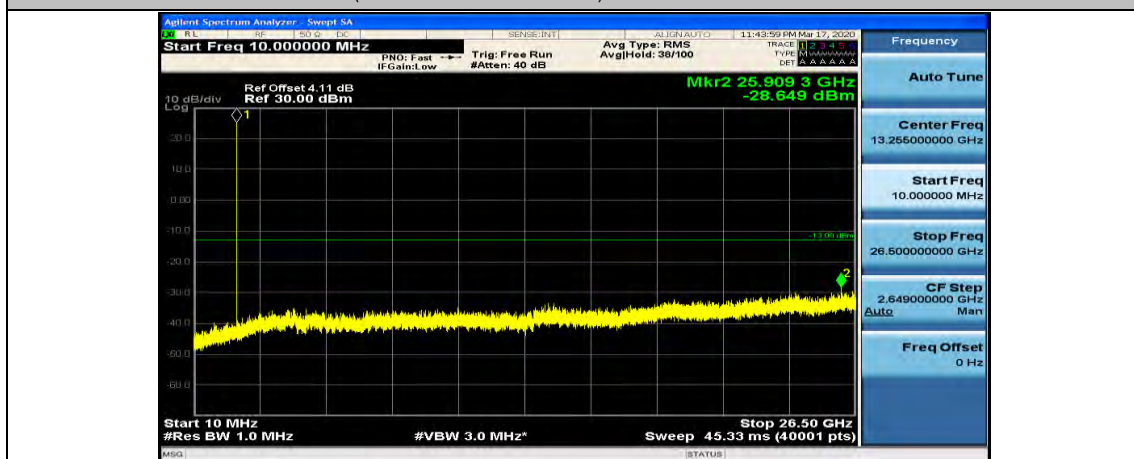


Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

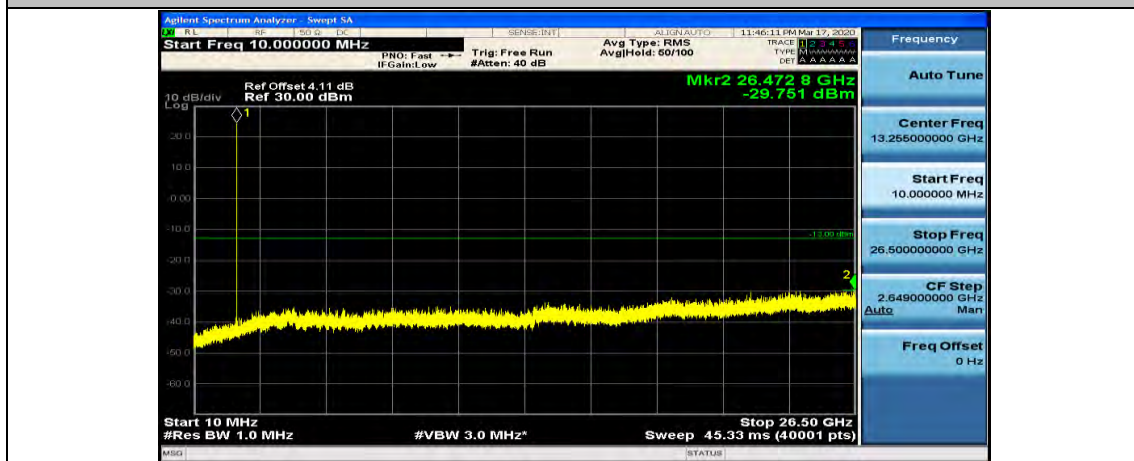


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

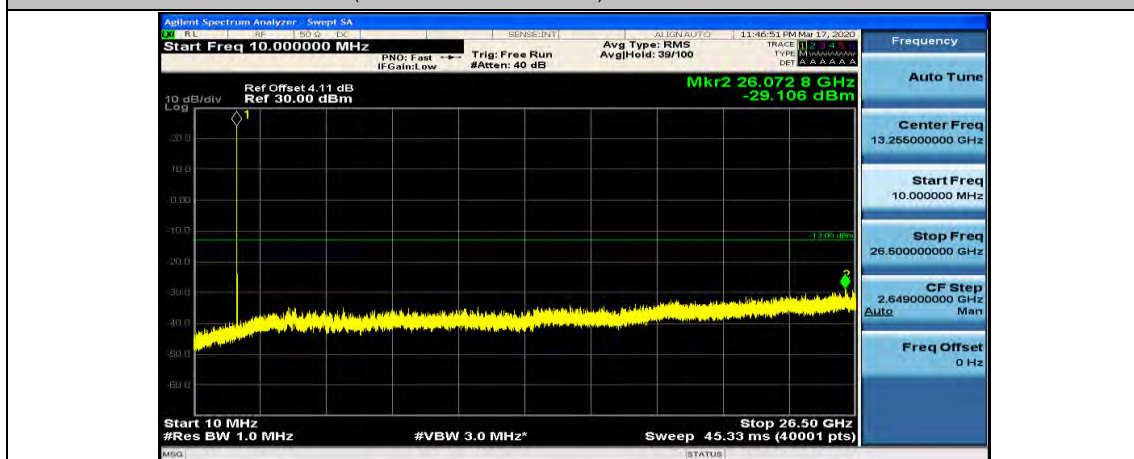


Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

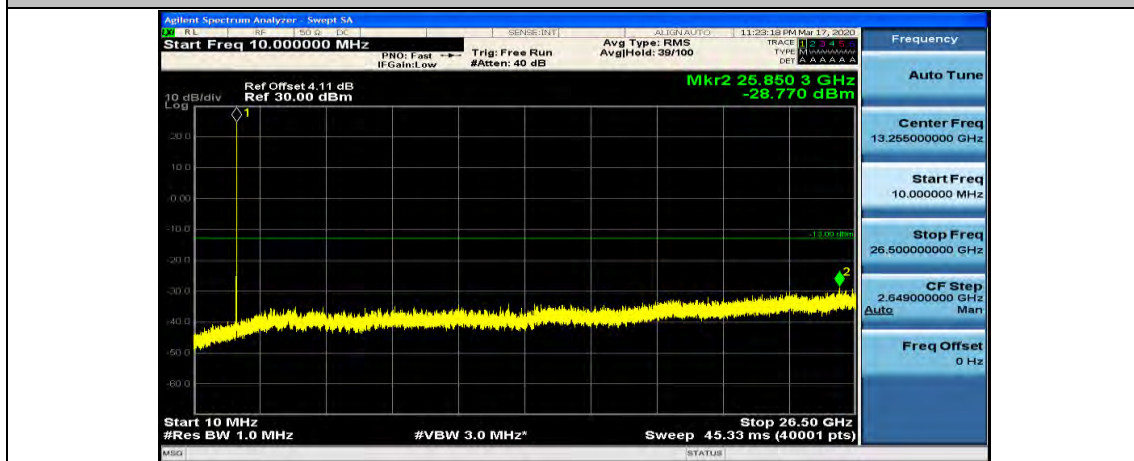


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

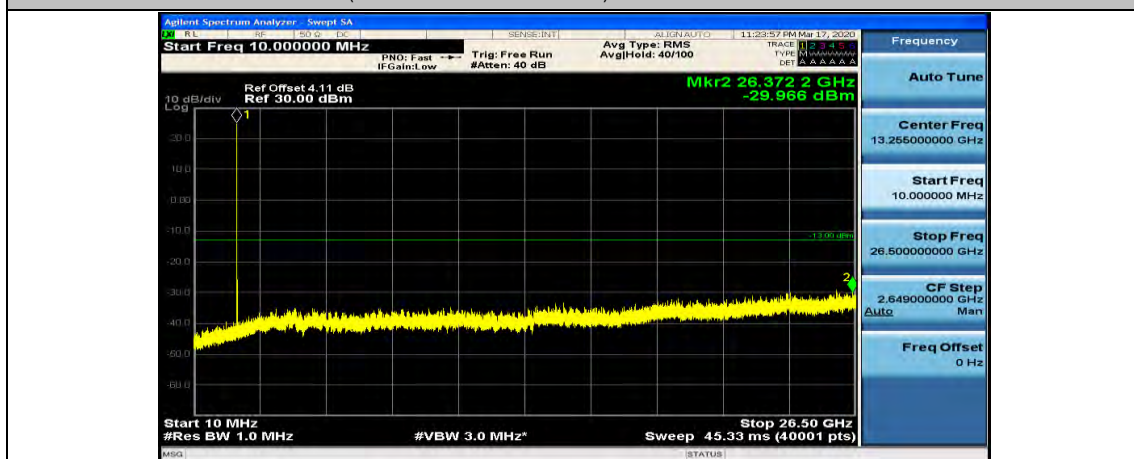


Channel Bandwidth: 10 MHz

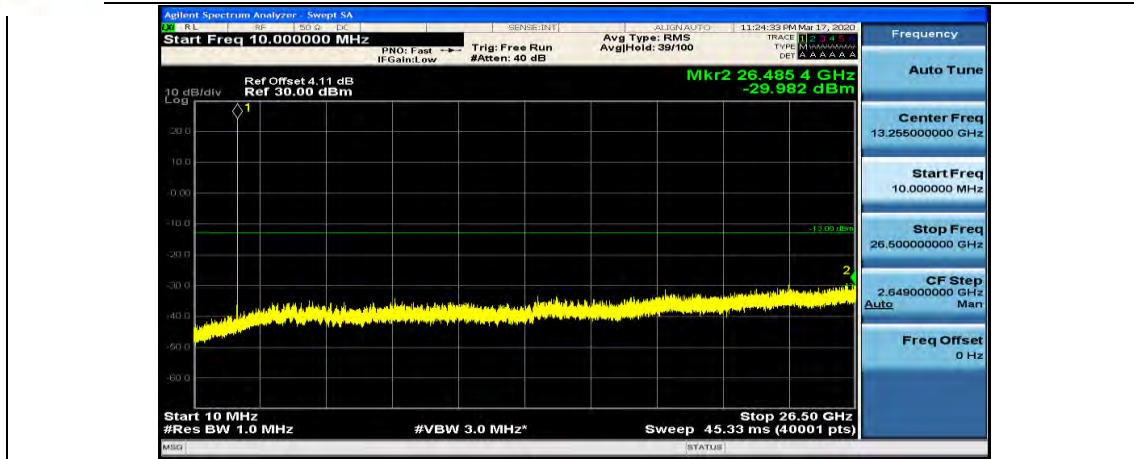
(Channel Bandwidth: 10 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0

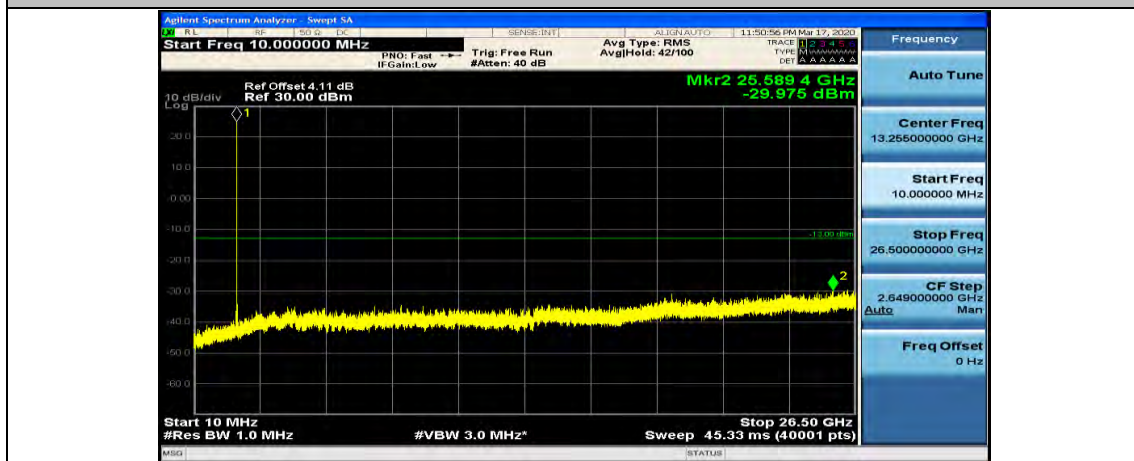


(Channel Bandwidth: 10 MHz)_HCH_QPSK_1RB#0

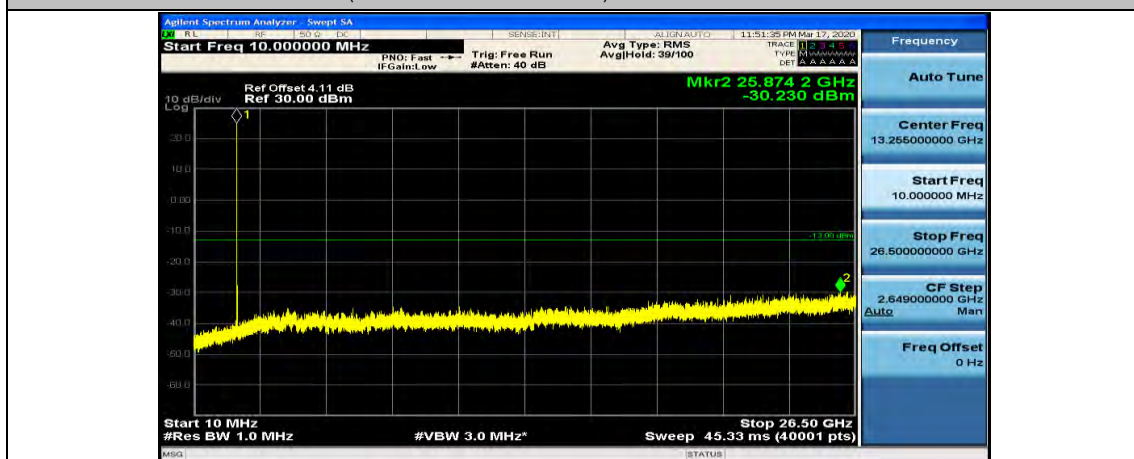


Channel Bandwidth: 15 MHz

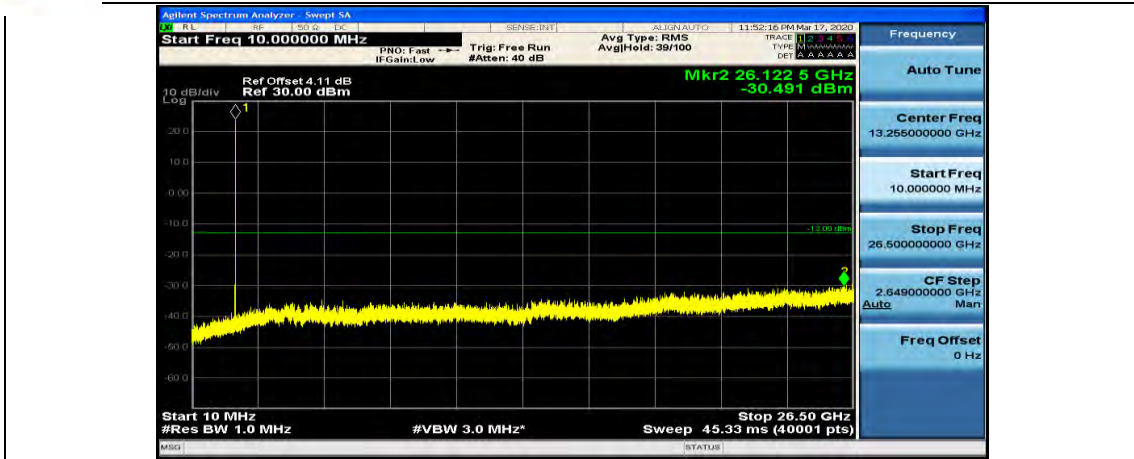
(Channel Bandwidth: 15 MHz)_LCH_QPSK_1RB#0



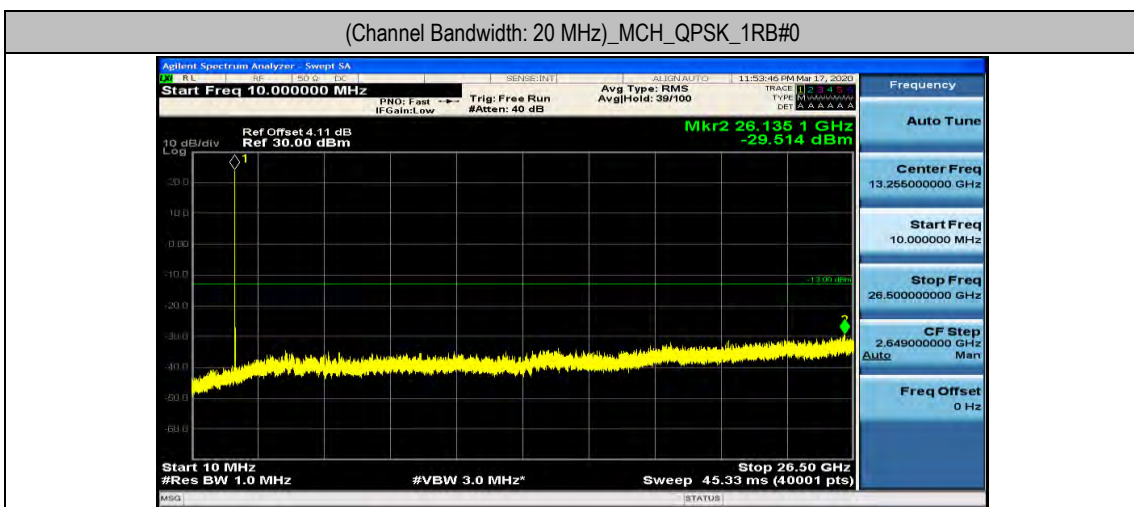
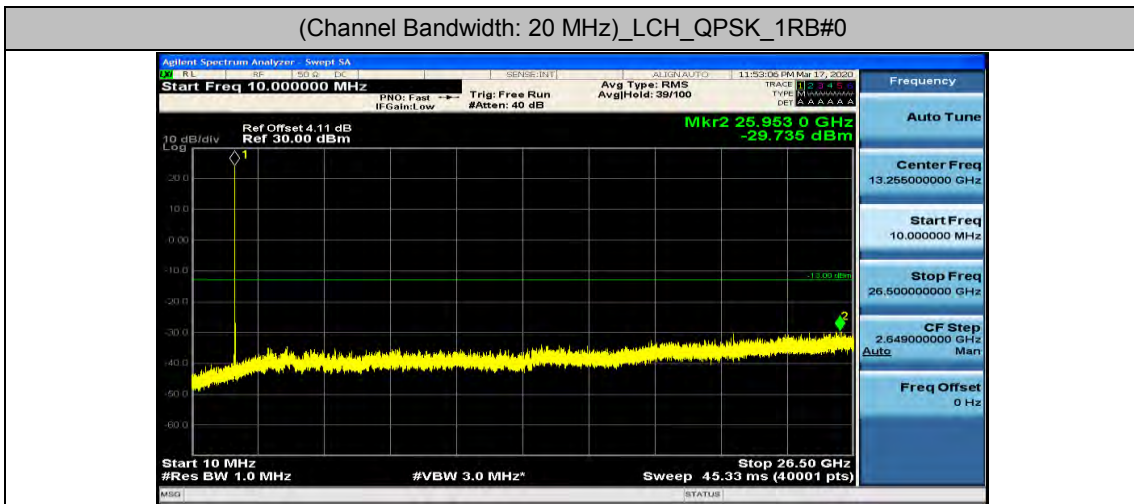
(Channel Bandwidth: 15 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 15 MHz)_HCH_QPSK_1RB#0



Channel Bandwidth: 20 MHz





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	-0.60	-0.000351	± 2.5	PASS
		VN	TN	14.50	0.008476	± 2.5	PASS
		VH	TN	-7.20	-0.004209	± 2.5	PASS
	MCH	VL	TN	-1.40	-0.000808	± 2.5	PASS
		VN	TN	-0.30	-0.000173	± 2.5	PASS
		VH	TN	-11.30	-0.006522	± 2.5	PASS
	HCH	VL	TN	-6.60	-0.003762	± 2.5	PASS
		VN	TN	1.70	0.000969	± 2.5	PASS
		VH	TN	-5.60	-0.003192	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.10	-0.000058	± 2.5	PASS
		VN	-20	3.10	0.001812	± 2.5	PASS
		VN	-10	5.20	0.003040	± 2.5	PASS
		VN	0	6.90	0.004033	± 2.5	PASS
		VN	10	-0.70	-0.000409	± 2.5	PASS
		VN	20	-10.60	-0.006196	± 2.5	PASS
		VN	30	-4.90	-0.002864	± 2.5	PASS
		VN	40	-1.90	-0.001111	± 2.5	PASS
		VN	50	3.80	0.002221	± 2.5	PASS
	MCH	VN	-30	-8.90	-0.005137	± 2.5	PASS
		VN	-20	-8.20	-0.004733	± 2.5	PASS
		VN	-10	-5.60	-0.003232	± 2.5	PASS
		VN	0	2.00	0.001154	± 2.5	PASS

		VN	10	-12.30	-0.007100	± 2.5	PASS
		VN	20	-7.50	-0.004329	± 2.5	PASS
		VN	30	-2.10	-0.001212	± 2.5	PASS
		VN	40	1.30	0.000750	± 2.5	PASS
		VN	50	-7.00	-0.004040	± 2.5	PASS
	HCH	VN	-30	-0.80	-0.000456	± 2.5	PASS
		VN	-20	5.40	0.003078	± 2.5	PASS
		VN	-10	-5.10	-0.002907	± 2.5	PASS
		VN	0	3.80	0.002166	± 2.5	PASS
		VN	10	-7.00	-0.003990	± 2.5	PASS
		VN	20	-4.70	-0.002679	± 2.5	PASS
		VN	30	6.10	0.003477	± 2.5	PASS
		VN	40	-2.70	-0.001539	± 2.5	PASS
		VN	50	4.50	0.002565	± 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	8.40	0.004908	± 2.5	PASS
		VN	TN	-1.60	-0.000935	± 2.5	PASS
		VH	TN	1.50	0.000876	± 2.5	PASS
	MCH	VL	TN	1.40	0.000808	± 2.5	PASS
		VN	TN	-2.00	-0.001154	± 2.5	PASS
		VH	TN	4.30	0.002482	± 2.5	PASS
	HCH	VL	TN	1.80	0.001027	± 2.5	PASS
		VN	TN	0.00	0.000000	± 2.5	PASS
		VH	TN	2.80	0.001597	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	13.30	0.007771	± 2.5	PASS
		VN	-20	3.50	0.002045	± 2.5	PASS
		VN	-10	14.50	0.008472	± 2.5	PASS
		VN	0	3.30	0.001928	± 2.5	PASS
		VN	10	-3.50	-0.002045	± 2.5	PASS
		VN	20	7.80	0.004557	± 2.5	PASS
		VN	30	-1.40	-0.000818	± 2.5	PASS
		VN	40	7.10	0.004148	± 2.5	PASS
		VN	50	-1.40	-0.000818	± 2.5	PASS
	MCH	VN	-30	10.50	0.006061	± 2.5	PASS
		VN	-20	-1.20	-0.000693	± 2.5	PASS
		VN	-10	6.70	0.003867	± 2.5	PASS
		VN	0	8.90	0.005137	± 2.5	PASS
		VN	10	6.20	0.003579	± 2.5	PASS
		VN	20	14.70	0.008485	± 2.5	PASS
VN		30	7.70	0.004444	± 2.5	PASS	

		VN	40	2.60	0.001501	± 2.5	PASS
		VN	50	7.70	0.004444	± 2.5	PASS
	HCH	VN	-30	-4.70	-0.002680	± 2.5	PASS
		VN	-20	6.50	0.003707	± 2.5	PASS
		VN	-10	-0.10	-0.000057	± 2.5	PASS
		VN	0	9.40	0.005361	± 2.5	PASS
		VN	10	-0.50	-0.000285	± 2.5	PASS
		VN	20	7.30	0.004163	± 2.5	PASS
		VN	30	6.70	0.003821	± 2.5	PASS
		VN	40	0.40	0.000228	± 2.5	PASS
		VN	50	6.70	0.003821	± 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	3.30	0.001927	± 2.5	PASS
		VN	TN	-9.30	-0.005431	± 2.5	PASS
		VH	TN	0.00	0.000000	± 2.5	PASS
	MCH	VL	TN	8.50	0.004906	± 2.5	PASS
		VN	TN	9.20	0.005310	± 2.5	PASS
		VH	TN	8.30	0.004791	± 2.5	PASS
	HCH	VL	TN	-2.40	-0.001369	± 2.5	PASS
		VN	TN	0.00	0.000000	± 2.5	PASS
		VH	TN	5.80	0.003310	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-12.10	-0.007066	± 2.5	PASS
		VN	-20	-11.10	-0.006482	± 2.5	PASS
		VN	-10	1.10	0.000642	± 2.5	PASS
		VN	0	-0.10	-0.000058	± 2.5	PASS
		VN	10	-2.70	-0.001577	± 2.5	PASS
		VN	20	5.40	0.003153	± 2.5	PASS
		VN	30	-3.70	-0.002161	± 2.5	PASS
		VN	40	-8.70	-0.005080	± 2.5	PASS
		VN	50	1.60	0.000934	± 2.5	PASS
	MCH	VN	-30	12.40	0.007157	± 2.5	PASS
		VN	-20	4.70	0.002713	± 2.5	PASS
		VN	-10	-3.60	-0.002078	± 2.5	PASS
		VN	0	6.30	0.003636	± 2.5	PASS
		VN	10	-2.40	-0.001385	± 2.5	PASS
		VN	20	7.20	0.004156	± 2.5	PASS
		VN	30	1.40	0.000808	± 2.5	PASS
		VN	40	12.70	0.007330	± 2.5	PASS
		VN	50	2.90	0.001674	± 2.5	PASS
	HCH	VN	-30	2.00	0.001141	± 2.5	PASS

		VN	-20	2.40	0.001369	± 2.5	PASS
		VN	-10	-0.60	-0.000342	± 2.5	PASS
		VN	0	-2.40	-0.001369	± 2.5	PASS
		VN	10	-3.80	-0.002168	± 2.5	PASS
		VN	20	-8.30	-0.004736	± 2.5	PASS
		VN	30	-1.90	-0.001084	± 2.5	PASS
		VN	40	-6.80	-0.003880	± 2.5	PASS
		VN	50	8.50	0.004850	± 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	4.70	0.002741	± 2.5	PASS
		VN	TN	0.90	0.000525	± 2.5	PASS
		VH	TN	-7.80	-0.004548	± 2.5	PASS
	MCH	VL	TN	2.40	0.001385	± 2.5	PASS
		VN	TN	11.80	0.006811	± 2.5	PASS
		VH	TN	2.70	0.001558	± 2.5	PASS
	HCH	VL	TN	-11.10	-0.006343	± 2.5	PASS
		VN	TN	-9.10	-0.005200	± 2.5	PASS
		VH	TN	-11.80	-0.006743	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.00	0.002332	± 2.5	PASS
		VN	-20	0.70	0.000408	± 2.5	PASS
		VN	-10	3.60	0.002099	± 2.5	PASS
		VN	0	-0.10	-0.000058	± 2.5	PASS
		VN	10	8.10	0.004723	± 2.5	PASS
		VN	20	-2.90	-0.001691	± 2.5	PASS
		VN	30	3.50	0.002041	± 2.5	PASS
		VN	40	1.60	0.000933	± 2.5	PASS
		VN	50	-7.10	-0.004140	± 2.5	PASS
	MCH	VN	-30	-2.40	-0.001385	± 2.5	PASS
		VN	-20	10.50	0.006061	± 2.5	PASS
		VN	-10	13.80	0.007965	± 2.5	PASS
		VN	0	9.30	0.005368	± 2.5	PASS
		VN	10	5.60	0.003232	± 2.5	PASS
		VN	20	6.30	0.003636	± 2.5	PASS
		VN	30	5.30	0.003059	± 2.5	PASS
		VN	40	9.00	0.005195	± 2.5	PASS
		VN	50	10.40	0.006003	± 2.5	PASS
	HCH	VN	-30	3.00	0.001714	± 2.5	PASS
		VN	-20	0.40	0.000229	± 2.5	PASS
		VN	-10	-2.90	-0.001657	± 2.5	PASS
		VN	0	-8.50	-0.004857	± 2.5	PASS

		VN	10	4.00	0.002286	± 2.5	PASS
		VN	20	0.00	0.000000	± 2.5	PASS
		VN	30	-5.20	-0.002971	± 2.5	PASS
		VN	40	-9.90	-0.005657	± 2.5	PASS
		VN	50	-11.80	-0.006743	± 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	3.80	0.002213	± 2.5	PASS
		VN	TN	5.40	0.003144	± 2.5	PASS
		VH	TN	12.40	0.007220	± 2.5	PASS
	MCH	VL	TN	6.20	0.003579	± 2.5	PASS
		VN	TN	12.50	0.007215	± 2.5	PASS
		VH	TN	2.00	0.001154	± 2.5	PASS
	HCH	VL	TN	9.20	0.005265	± 2.5	PASS
		VN	TN	-3.60	-0.002060	± 2.5	PASS
		VH	TN	-1.10	-0.000629	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	11.30	0.006579	± 2.5	PASS
		VN	-20	8.10	0.004716	± 2.5	PASS
		VN	-10	-0.10	-0.000058	± 2.5	PASS
		VN	0	-1.80	-0.001048	± 2.5	PASS
		VN	10	-1.80	-0.001048	± 2.5	PASS
		VN	20	-1.90	-0.001106	± 2.5	PASS
		VN	30	8.30	0.004833	± 2.5	PASS
		VN	40	6.80	0.003959	± 2.5	PASS
		VN	50	11.70	0.006812	± 2.5	PASS
	MCH	VN	-30	5.80	0.003348	± 2.5	PASS
		VN	-20	9.00	0.005195	± 2.5	PASS
		VN	-10	-4.90	-0.002828	± 2.5	PASS
		VN	0	-2.60	-0.001501	± 2.5	PASS
		VN	10	3.40	0.001962	± 2.5	PASS
		VN	20	8.00	0.004618	± 2.5	PASS
		VN	30	-1.30	-0.000750	± 2.5	PASS
		VN	40	7.60	0.004387	± 2.5	PASS
		VN	50	-1.70	-0.000981	± 2.5	PASS
	HCH	VN	-30	-1.20	-0.000687	± 2.5	PASS
		VN	-20	-1.10	-0.000629	± 2.5	PASS
		VN	-10	-2.00	-0.001144	± 2.5	PASS
		VN	0	-2.10	-0.001202	± 2.5	PASS
		VN	10	-5.70	-0.003262	± 2.5	PASS
		VN	20	-5.00	-0.002861	± 2.5	PASS
		VN	30	6.10	0.003491	± 2.5	PASS



		VN	40	-0.90	-0.000515	± 2.5	PASS
		VN	50	-2.40	-0.001373	± 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	-6.10	-0.003547	± 2.5	PASS
		VN	TN	2.70	0.001570	± 2.5	PASS
		VH	TN	1.20	0.000698	± 2.5	PASS
	MCH	VL	TN	4.90	0.002828	± 2.5	PASS
		VN	TN	14.20	0.008196	± 2.5	PASS
		VH	TN	3.10	0.001789	± 2.5	PASS
	HCH	VL	TN	0.30	0.000172	± 2.5	PASS
		VN	TN	3.90	0.002235	± 2.5	PASS
		VH	TN	-3.30	-0.001891	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.50	0.000291	± 2.5	PASS
		VN	-20	-1.30	-0.000756	± 2.5	PASS
		VN	-10	-3.60	-0.002093	± 2.5	PASS
		VN	0	0.00	0.000000	± 2.5	PASS
		VN	10	-8.80	-0.005116	± 2.5	PASS
		VN	20	3.30	0.001919	± 2.5	PASS
		VN	30	-11.90	-0.006919	± 2.5	PASS
		VN	40	-5.40	-0.003140	± 2.5	PASS
		VN	50	1.30	0.000756	± 2.5	PASS
	MCH	VN	-30	6.40	0.003694	± 2.5	PASS
		VN	-20	11.20	0.006465	± 2.5	PASS
		VN	-10	-0.30	-0.000173	± 2.5	PASS
		VN	0	11.20	0.006465	± 2.5	PASS
		VN	10	0.10	0.000058	± 2.5	PASS
		VN	20	7.70	0.004444	± 2.5	PASS
		VN	30	11.80	0.006811	± 2.5	PASS
		VN	40	-3.70	-0.002136	± 2.5	PASS
		VN	50	1.60	0.000924	± 2.5	PASS
	HCH	VN	-30	-5.70	-0.003266	± 2.5	PASS
		VN	-20	7.80	0.004470	± 2.5	PASS
		VN	-10	-8.00	-0.004585	± 2.5	PASS
		VN	0	-3.90	-0.002235	± 2.5	PASS
		VN	10	-0.70	-0.000401	± 2.5	PASS
		VN	20	-2.90	-0.001662	± 2.5	PASS
		VN	30	-3.80	-0.002178	± 2.5	PASS
		VN	40	6.60	0.003782	± 2.5	PASS
		VN	50	4.90	0.002808	± 2.5	PASS