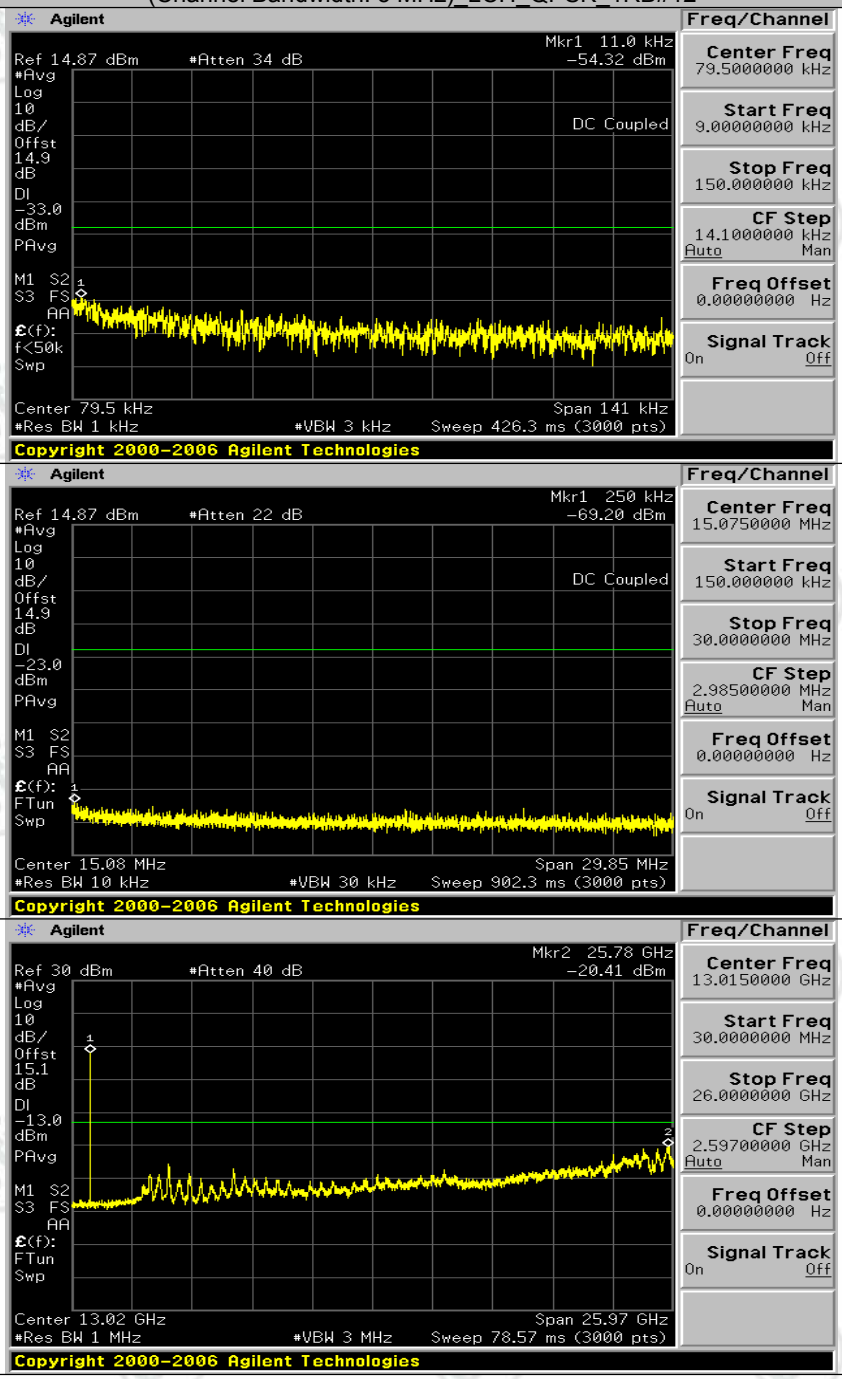
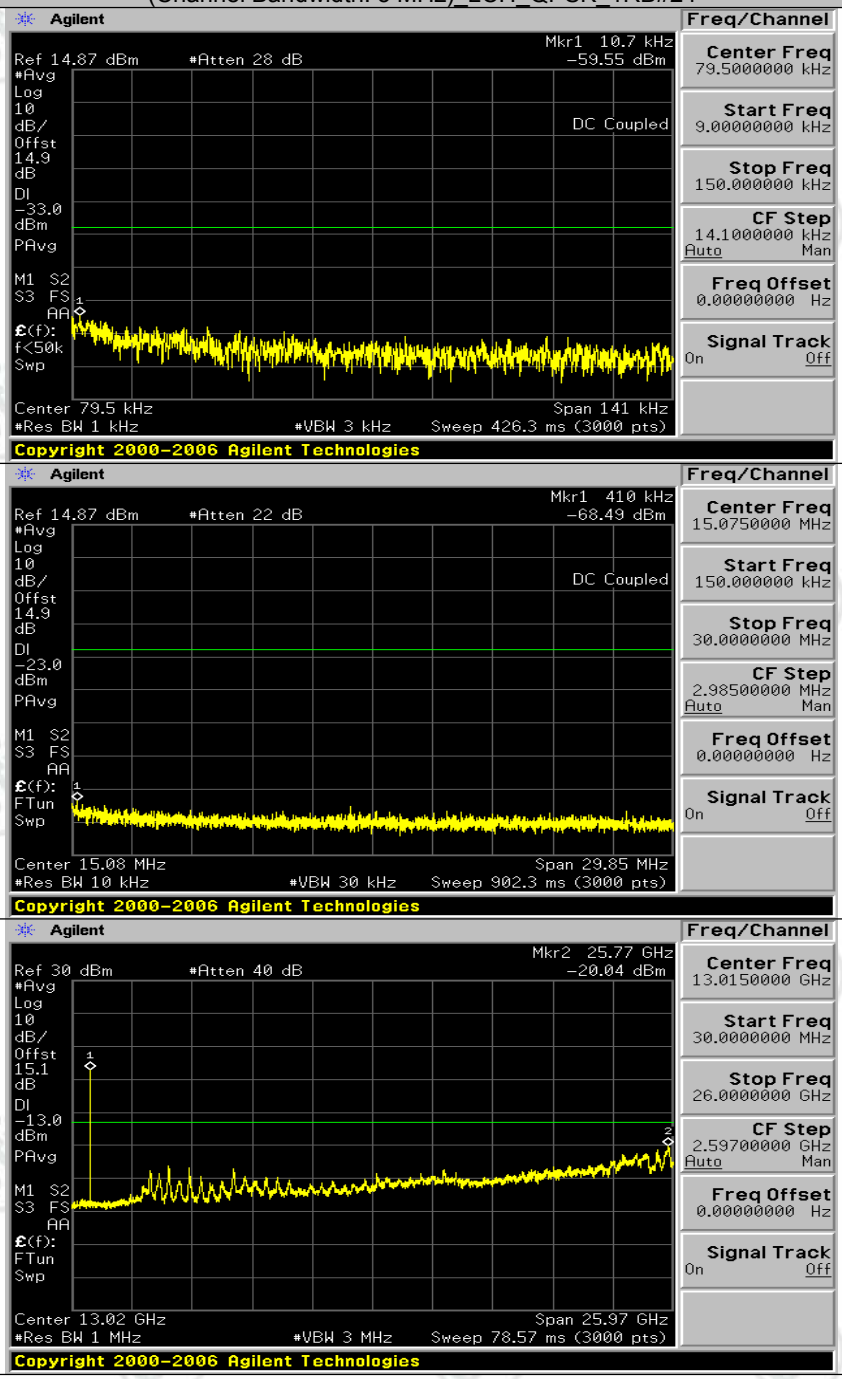
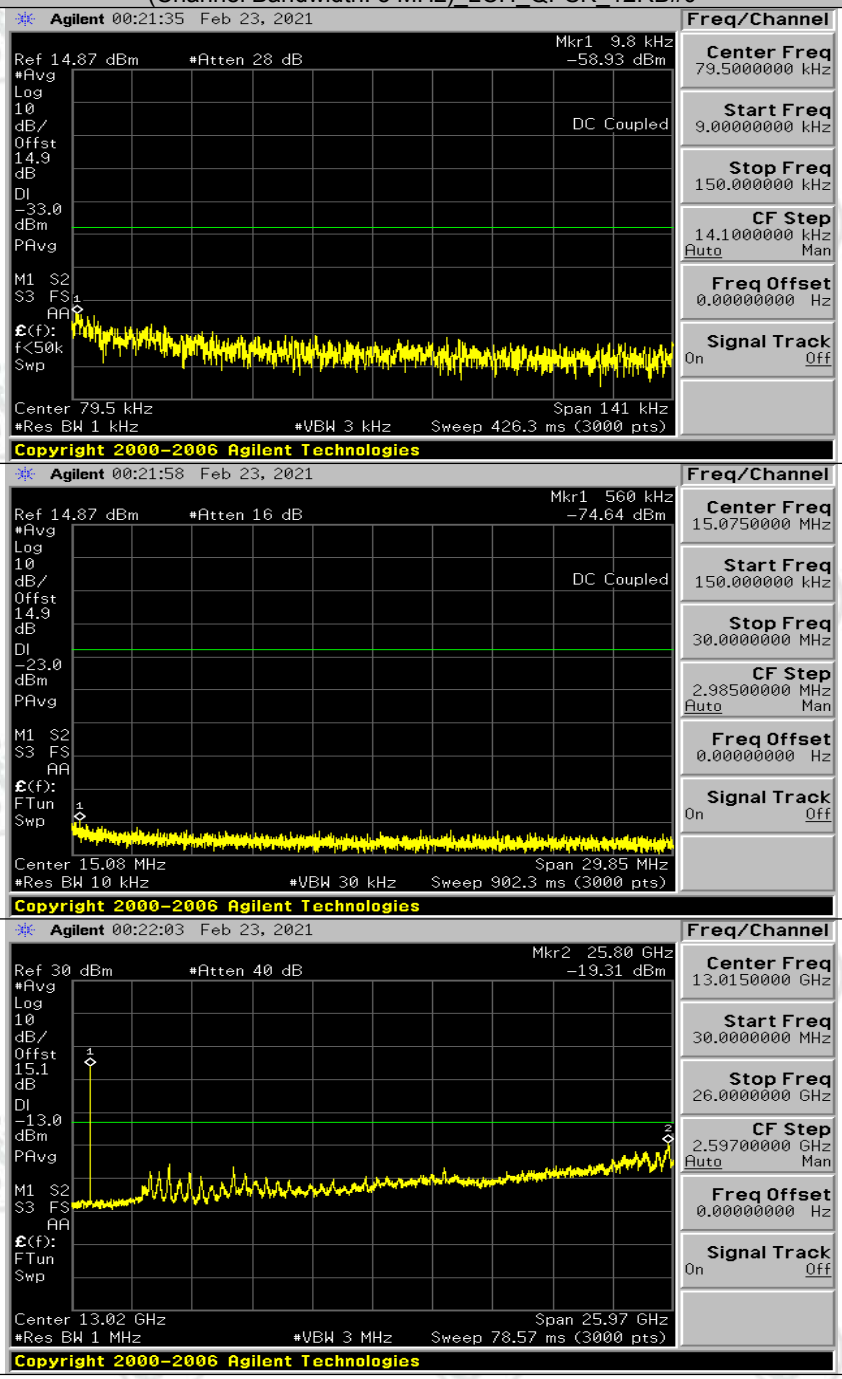
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



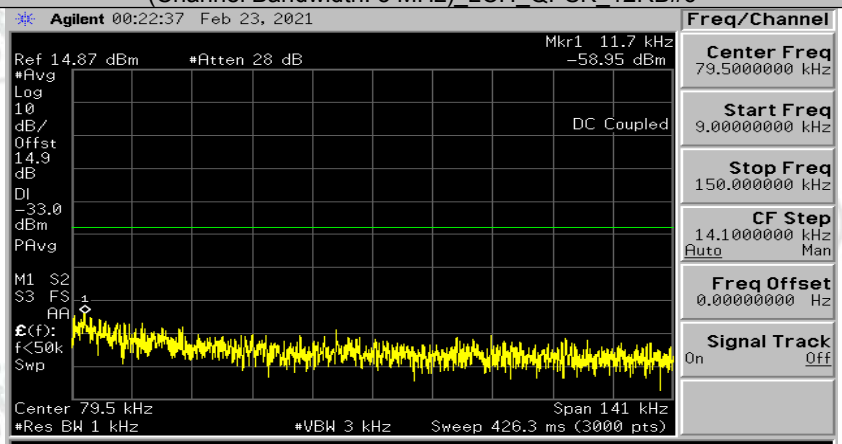
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

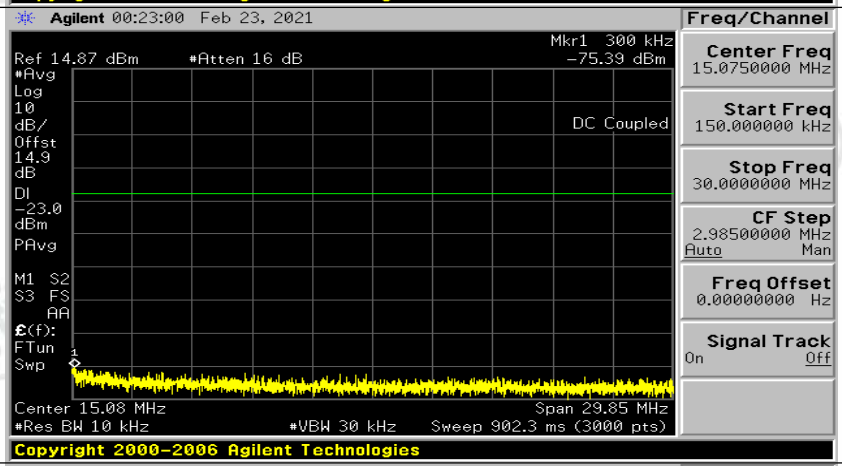


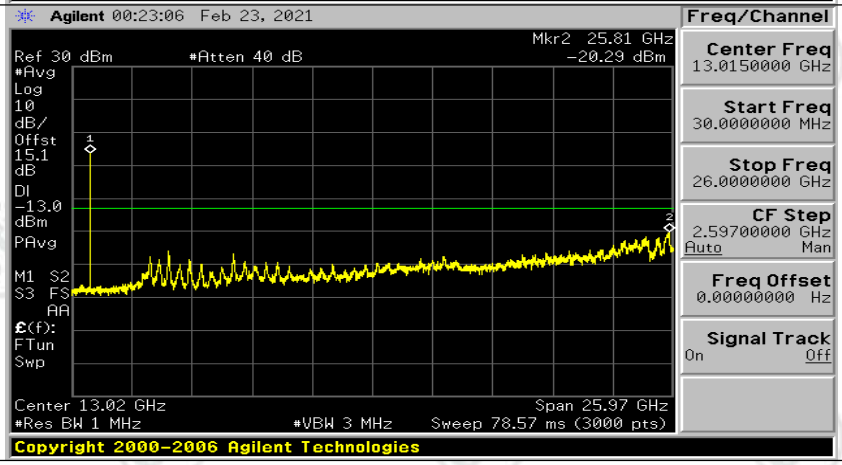
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



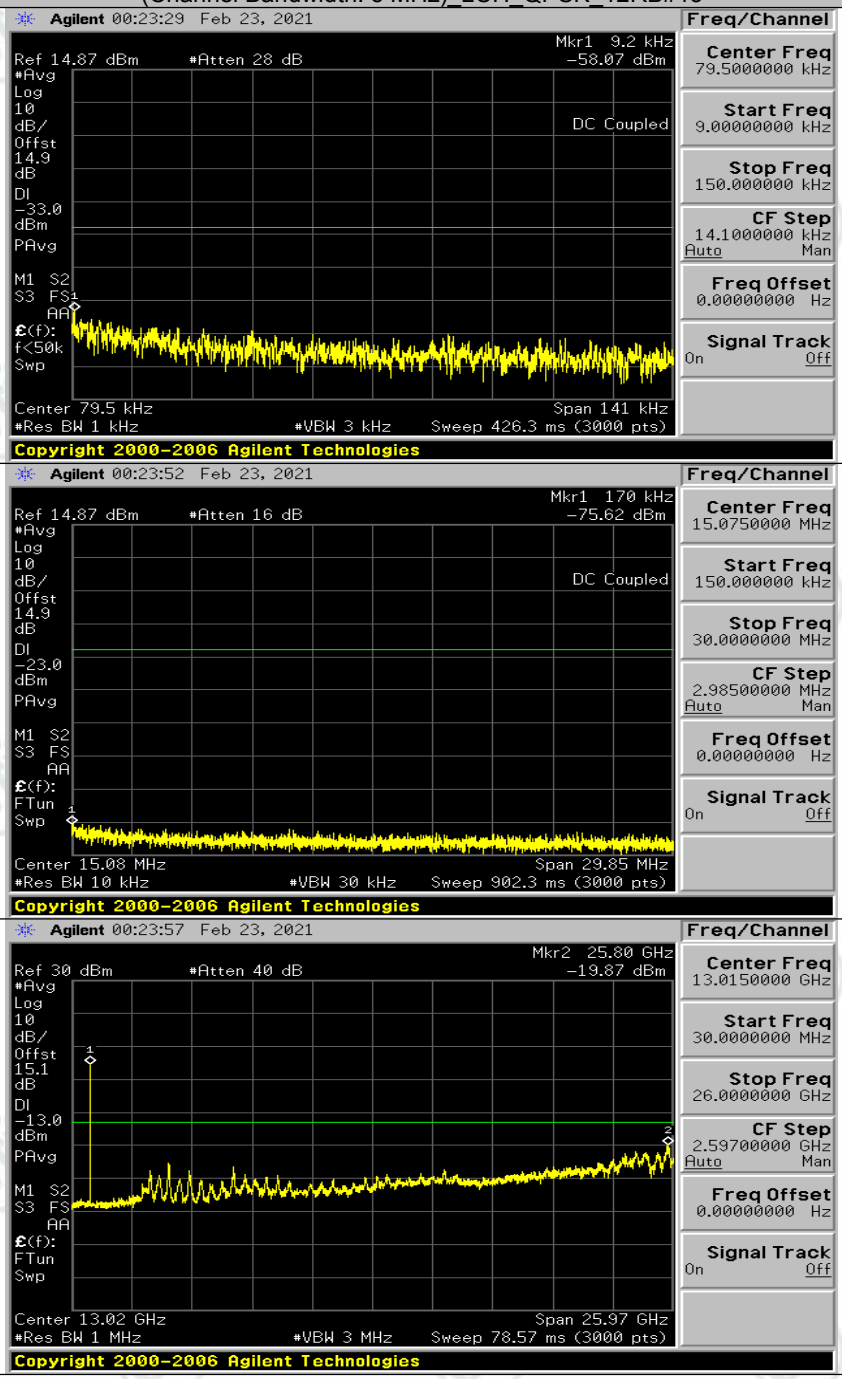
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



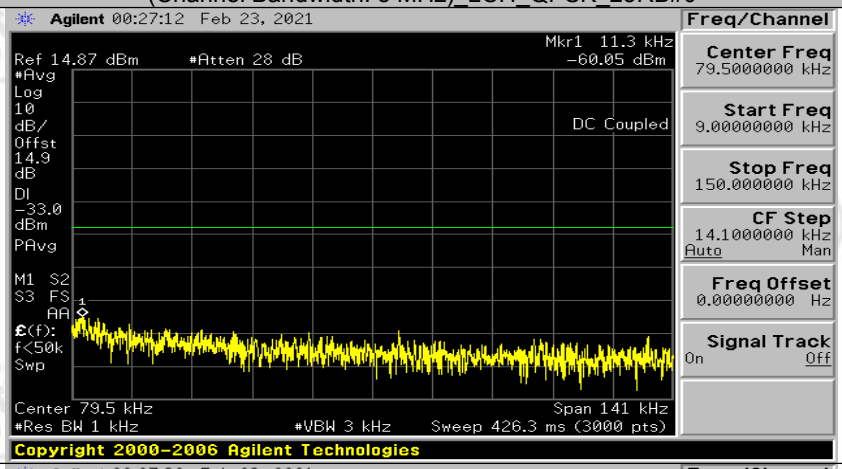


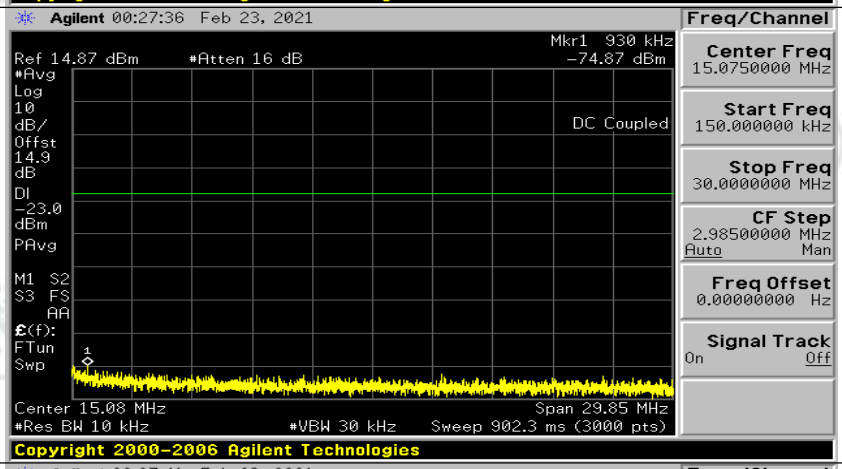


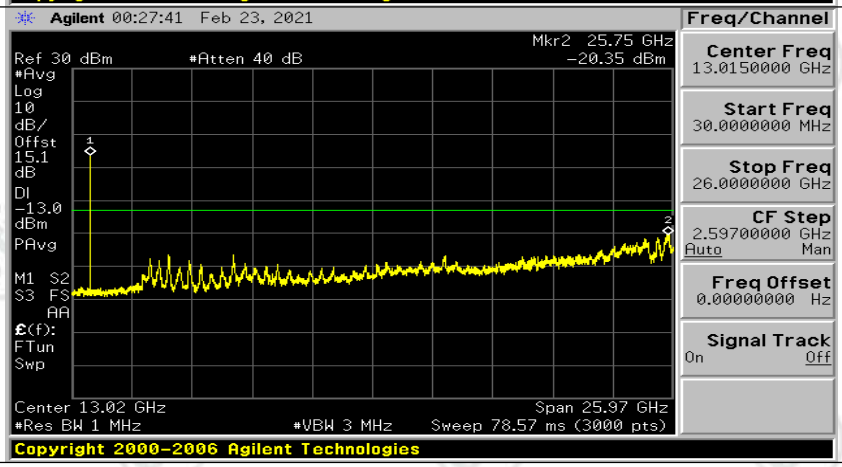
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



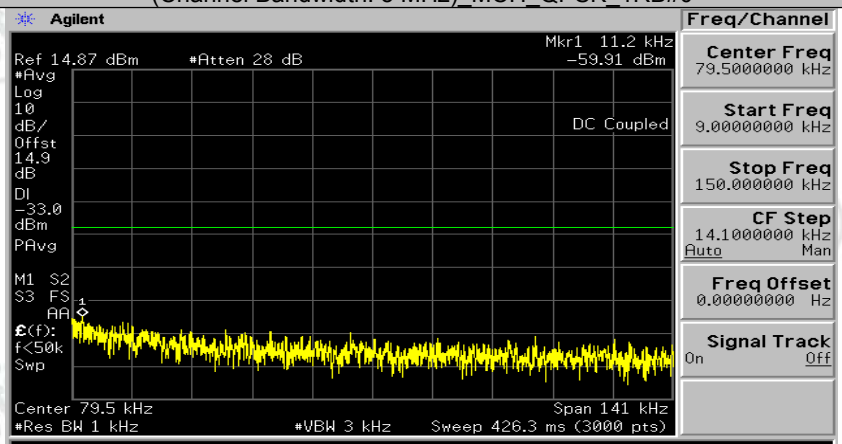
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

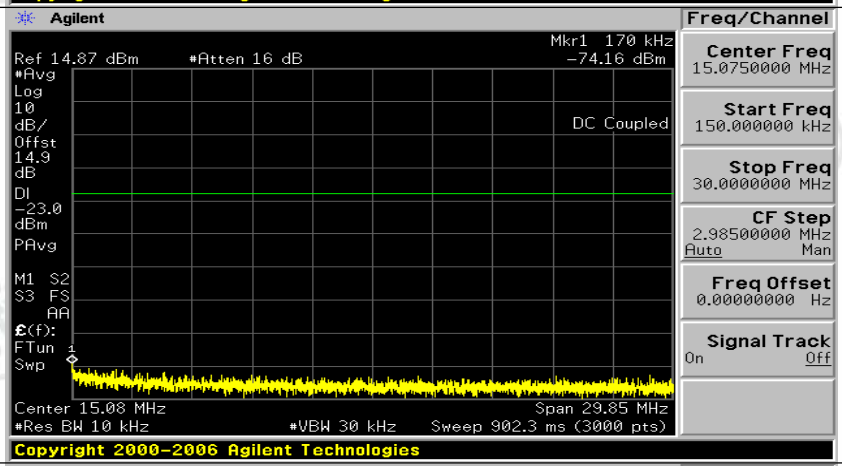


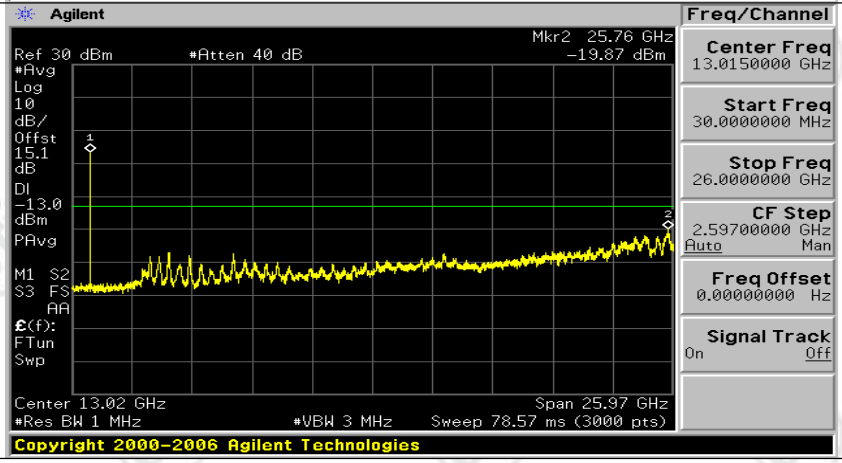




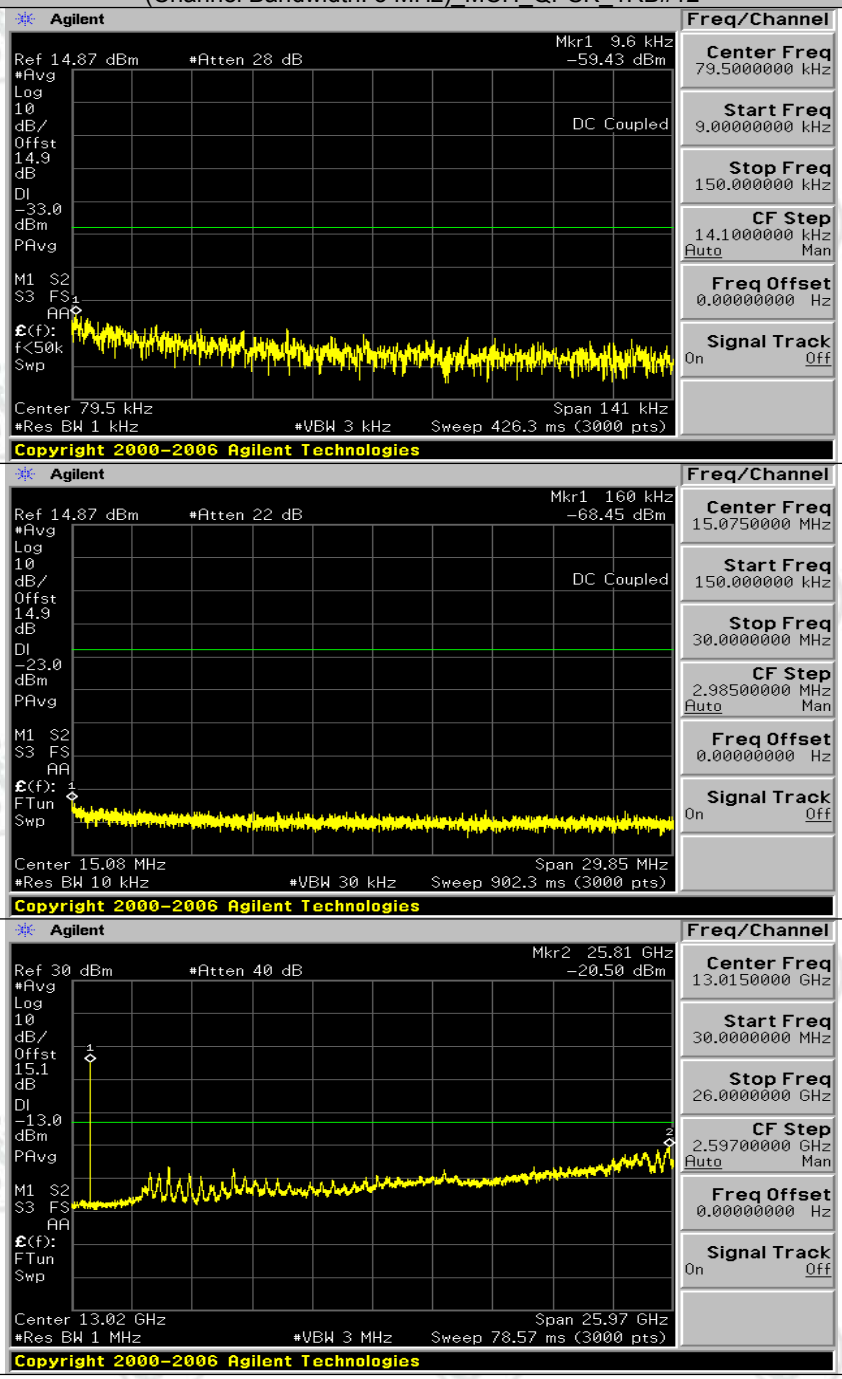
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



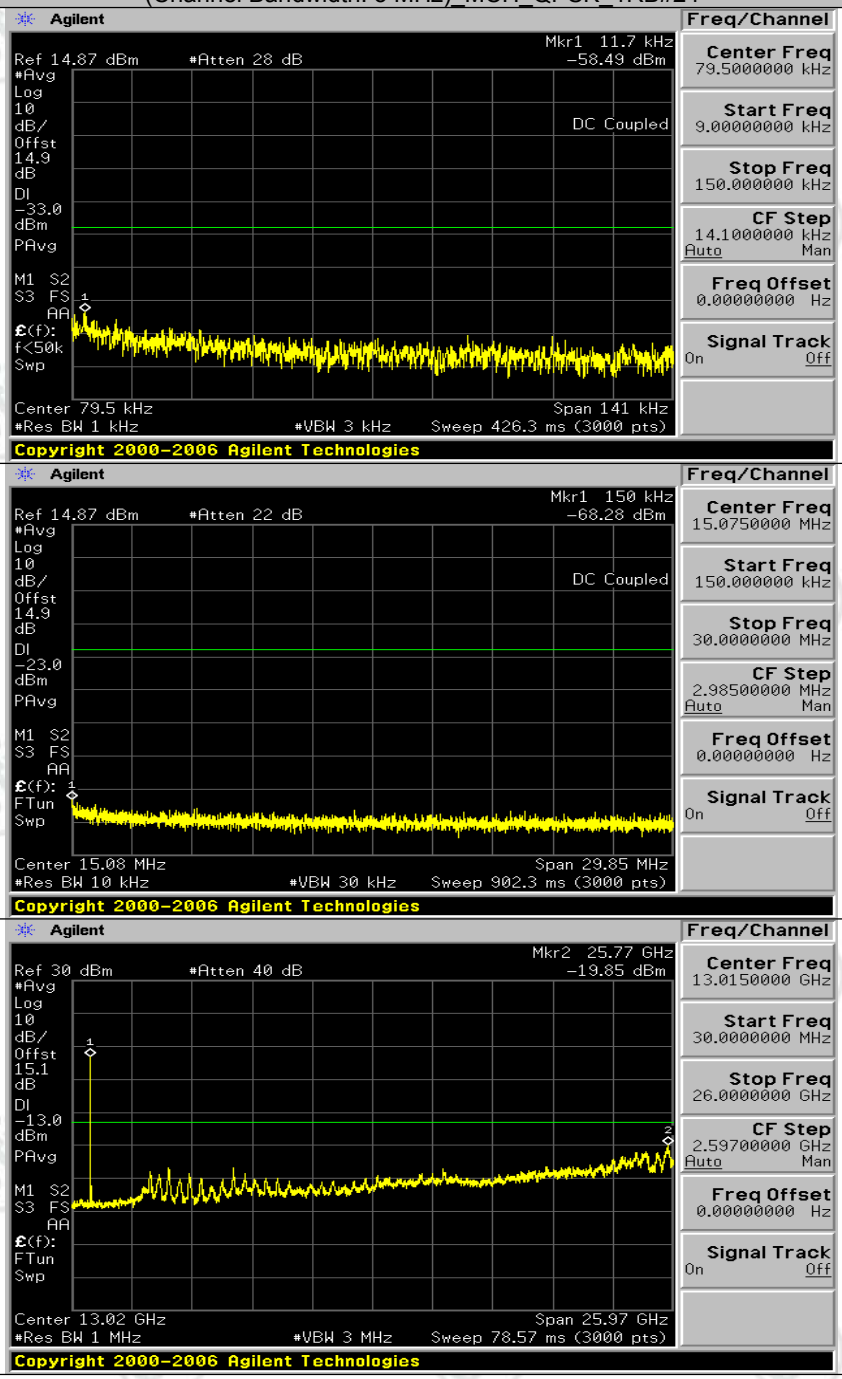




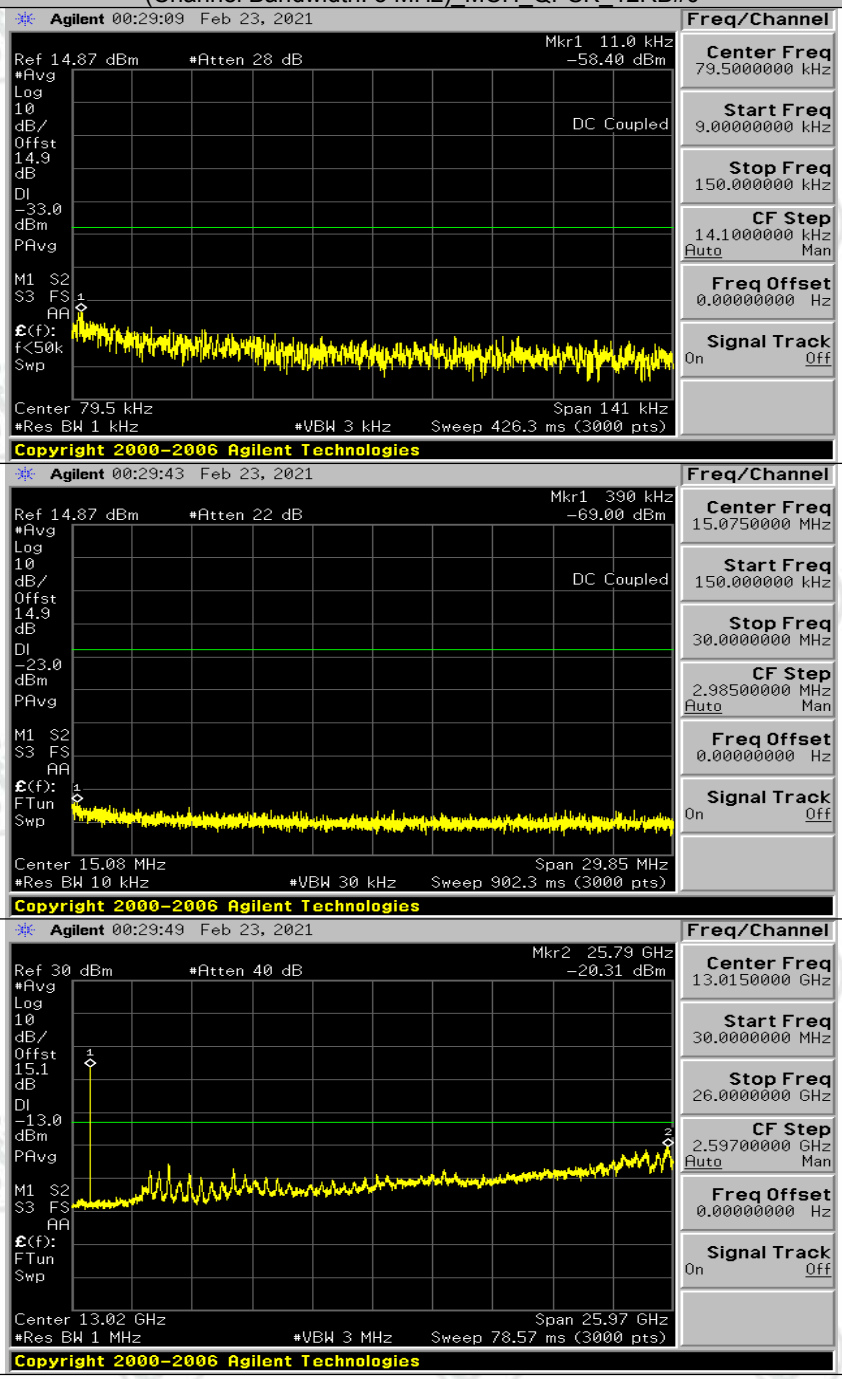
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



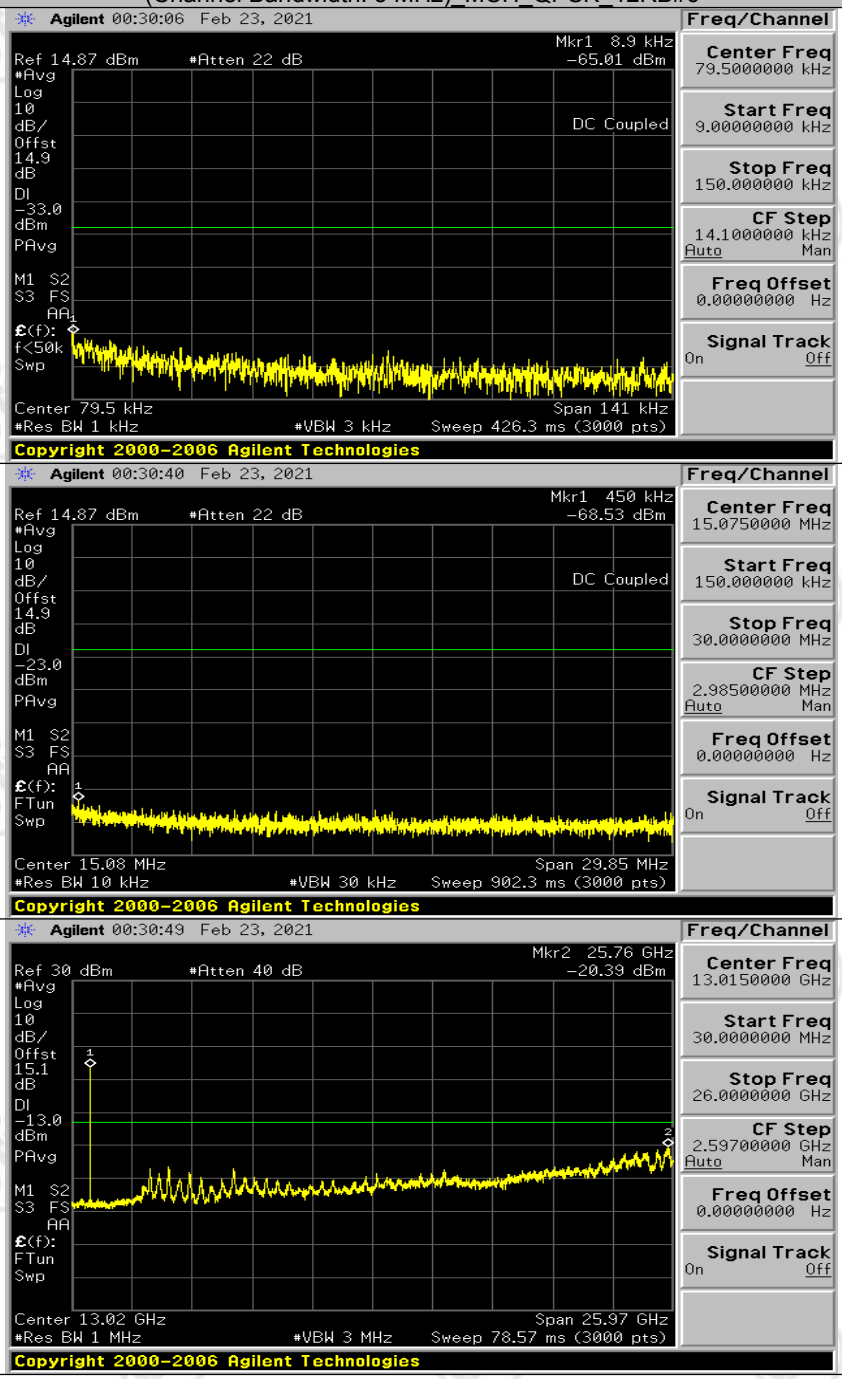
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



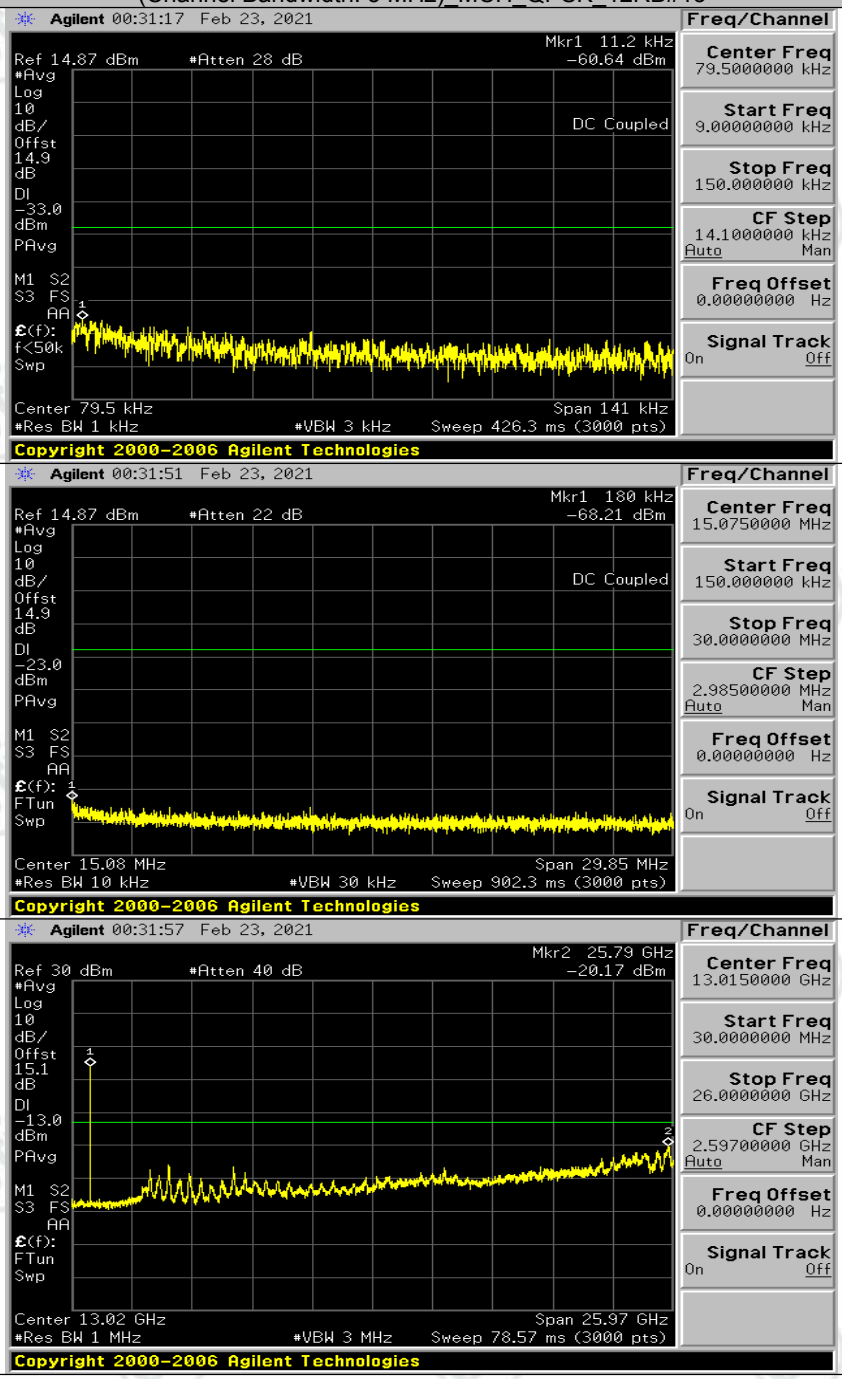
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



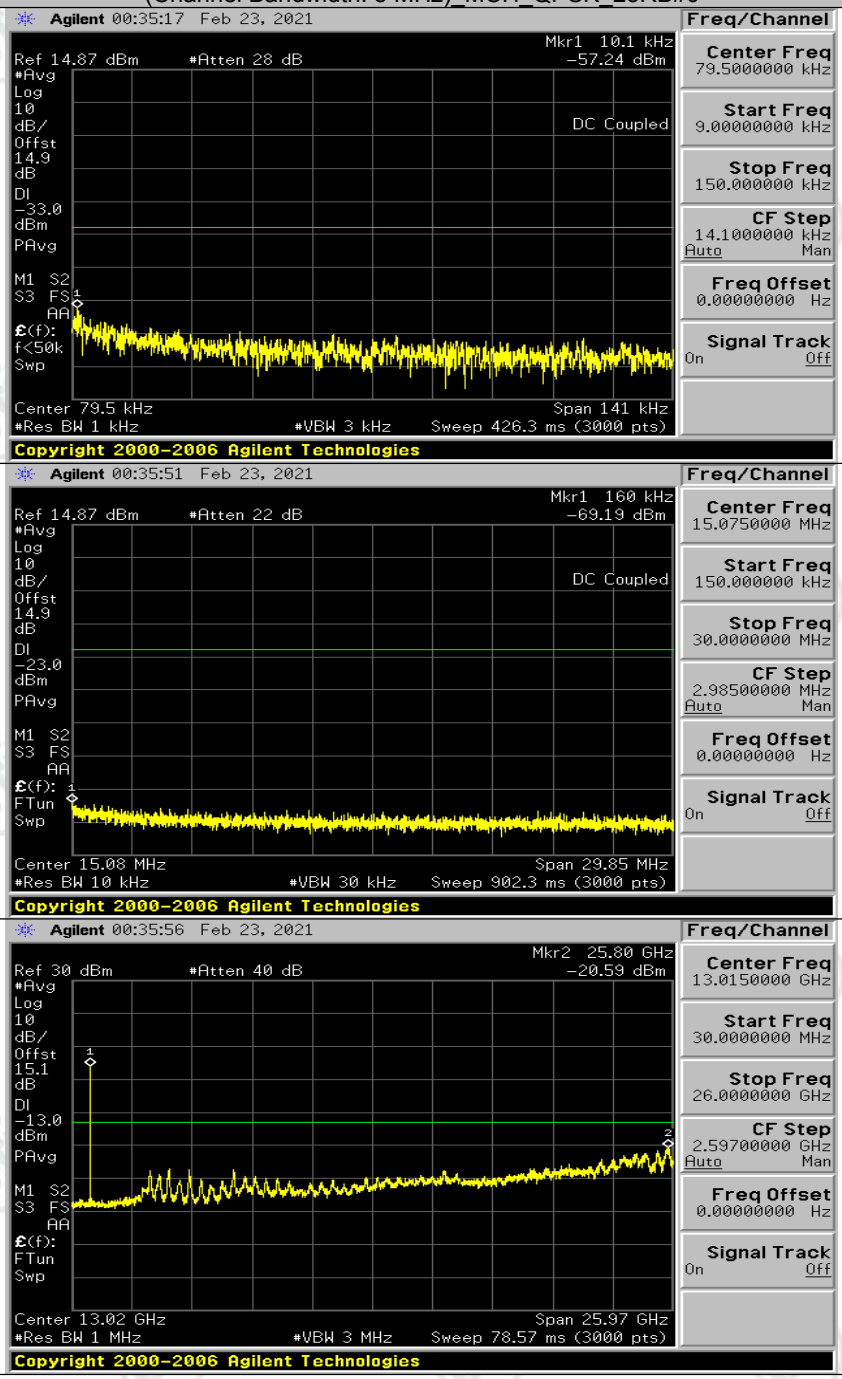
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



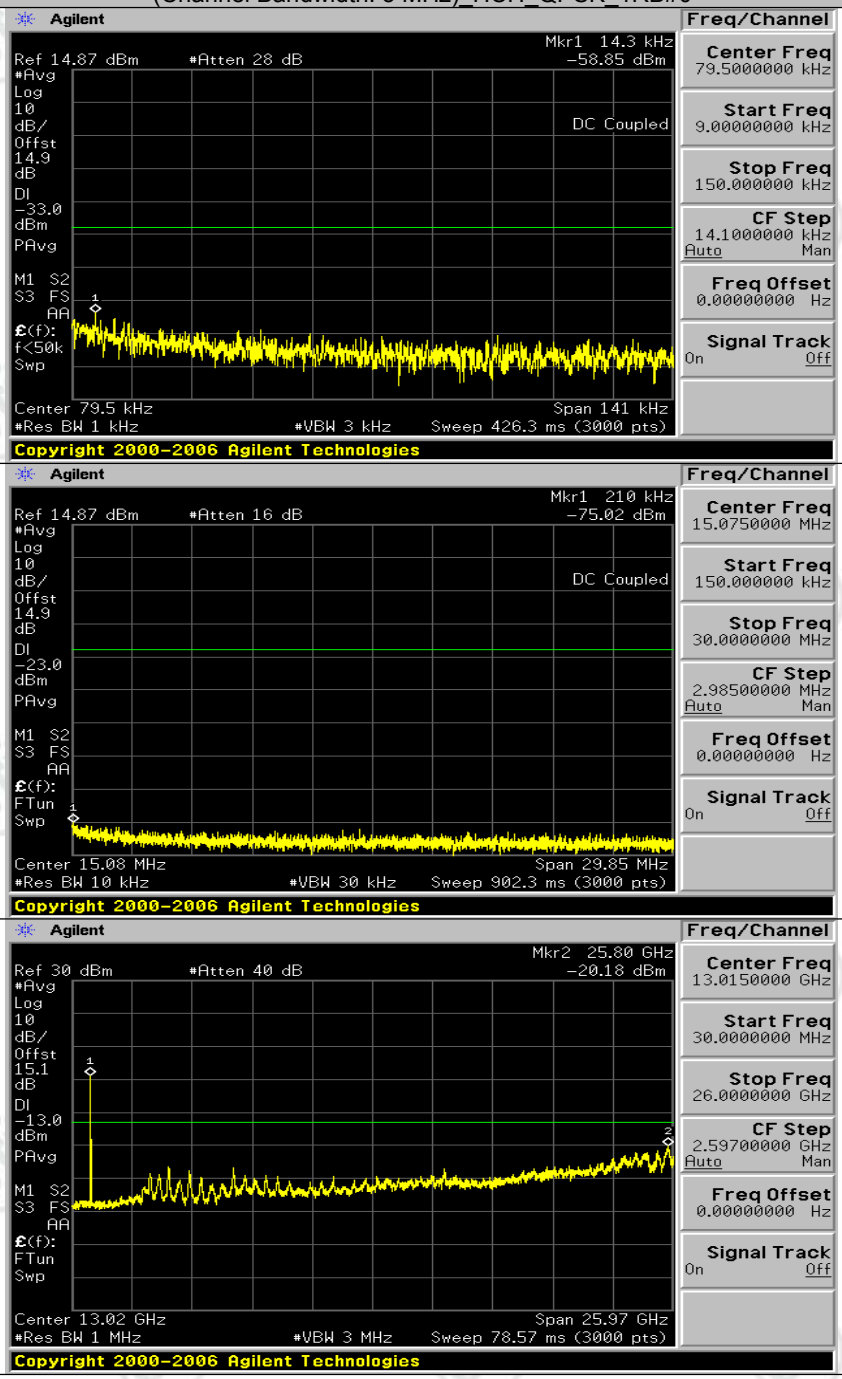
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



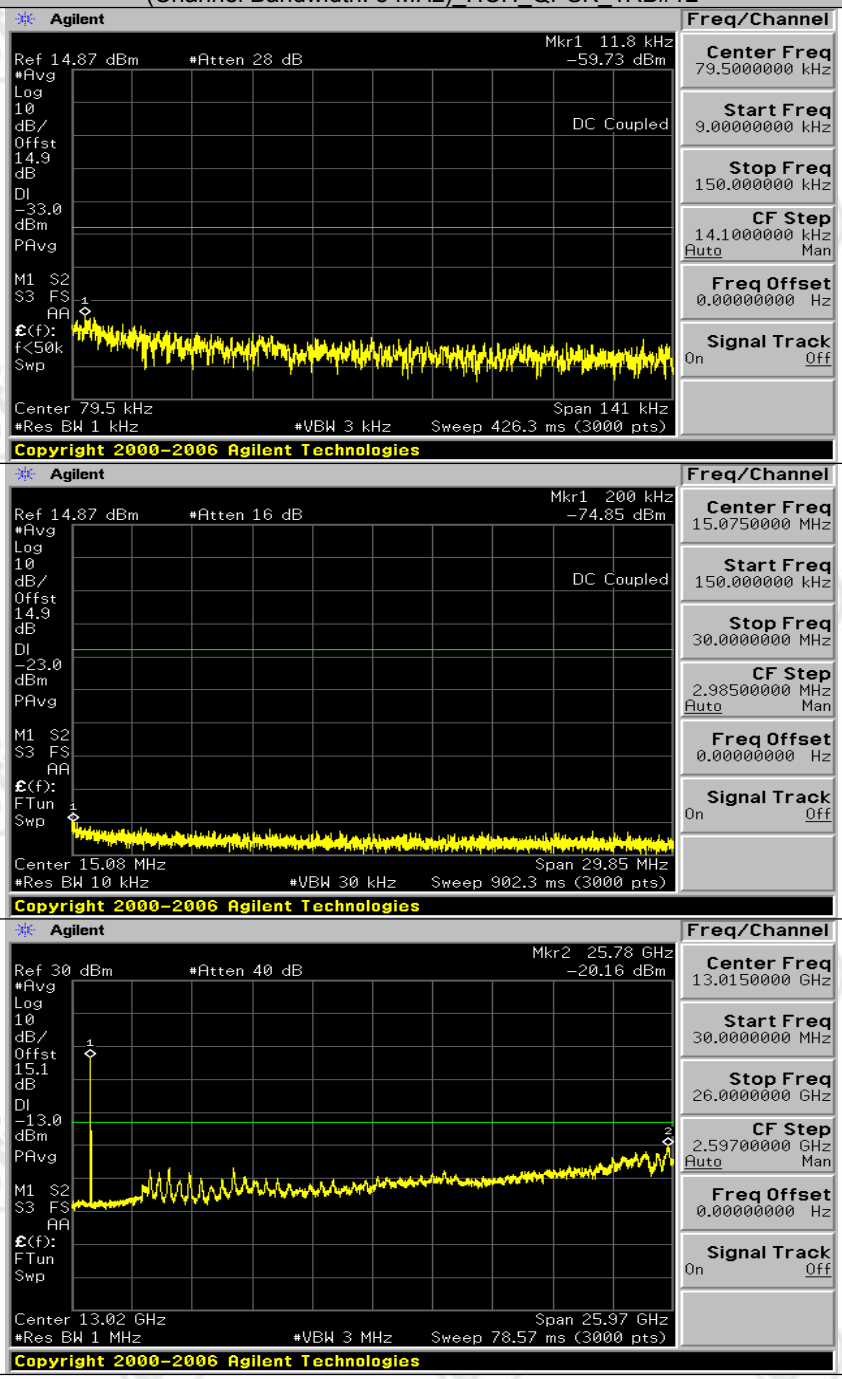
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

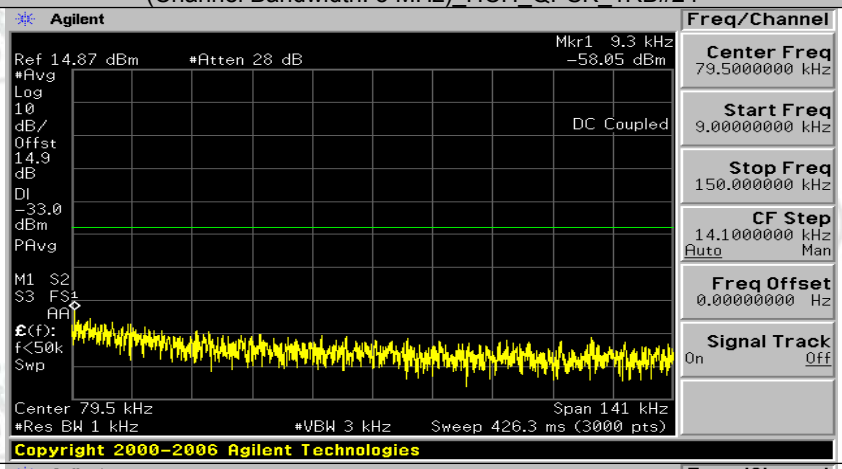
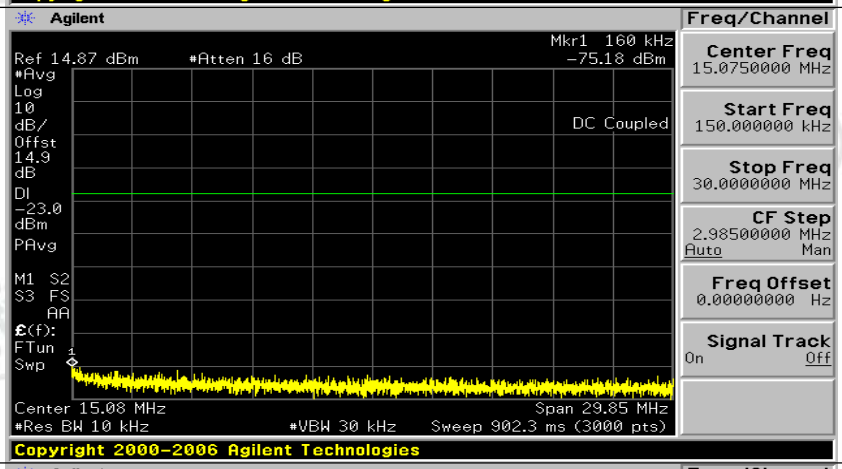
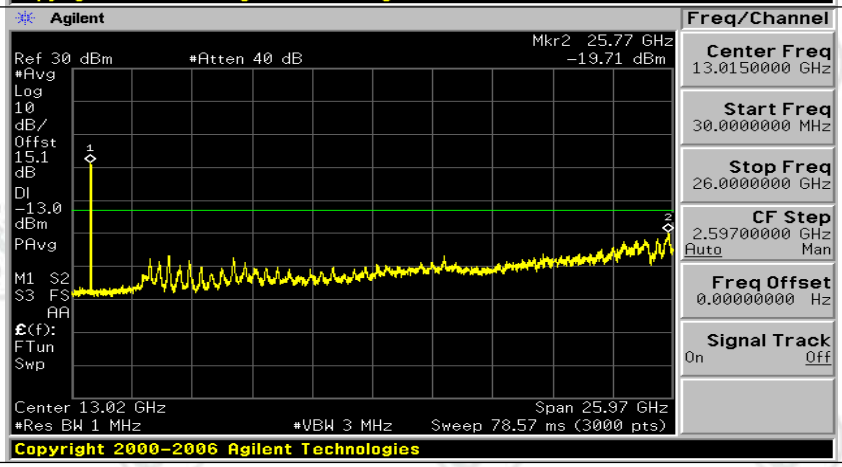


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

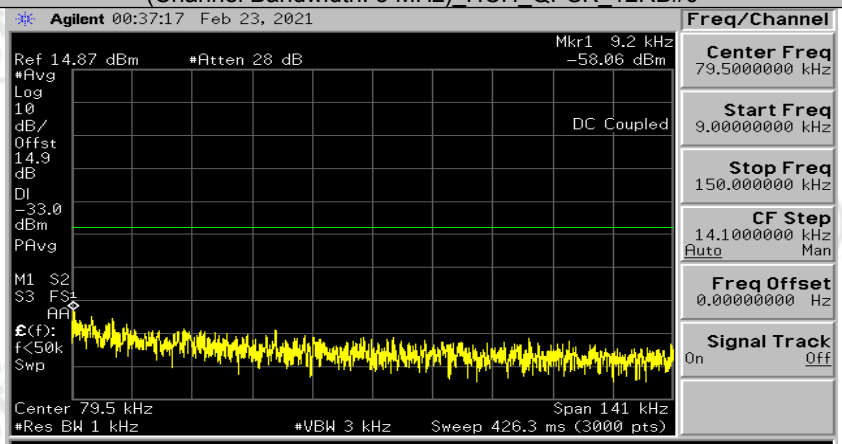


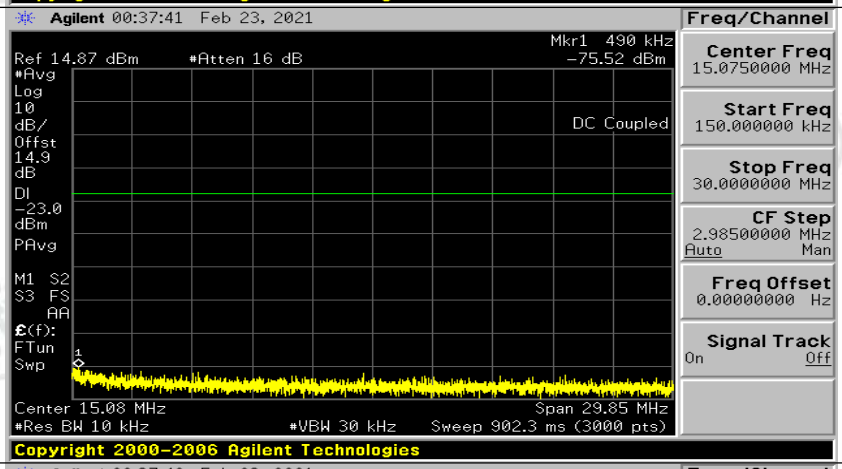
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

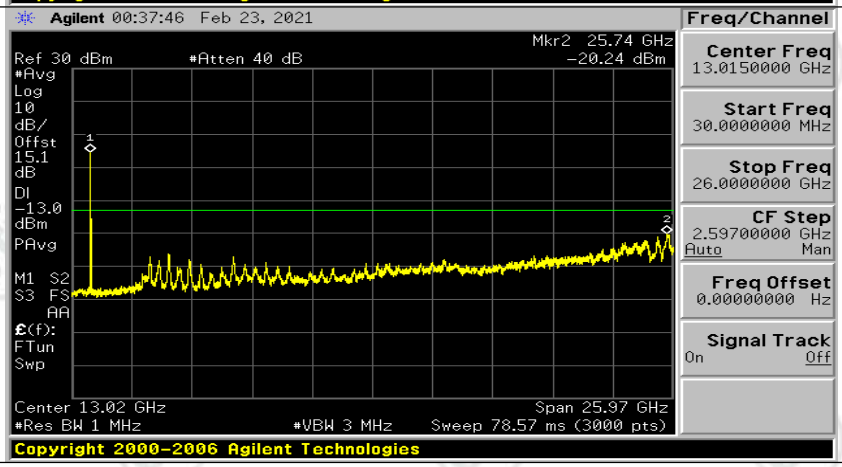


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24




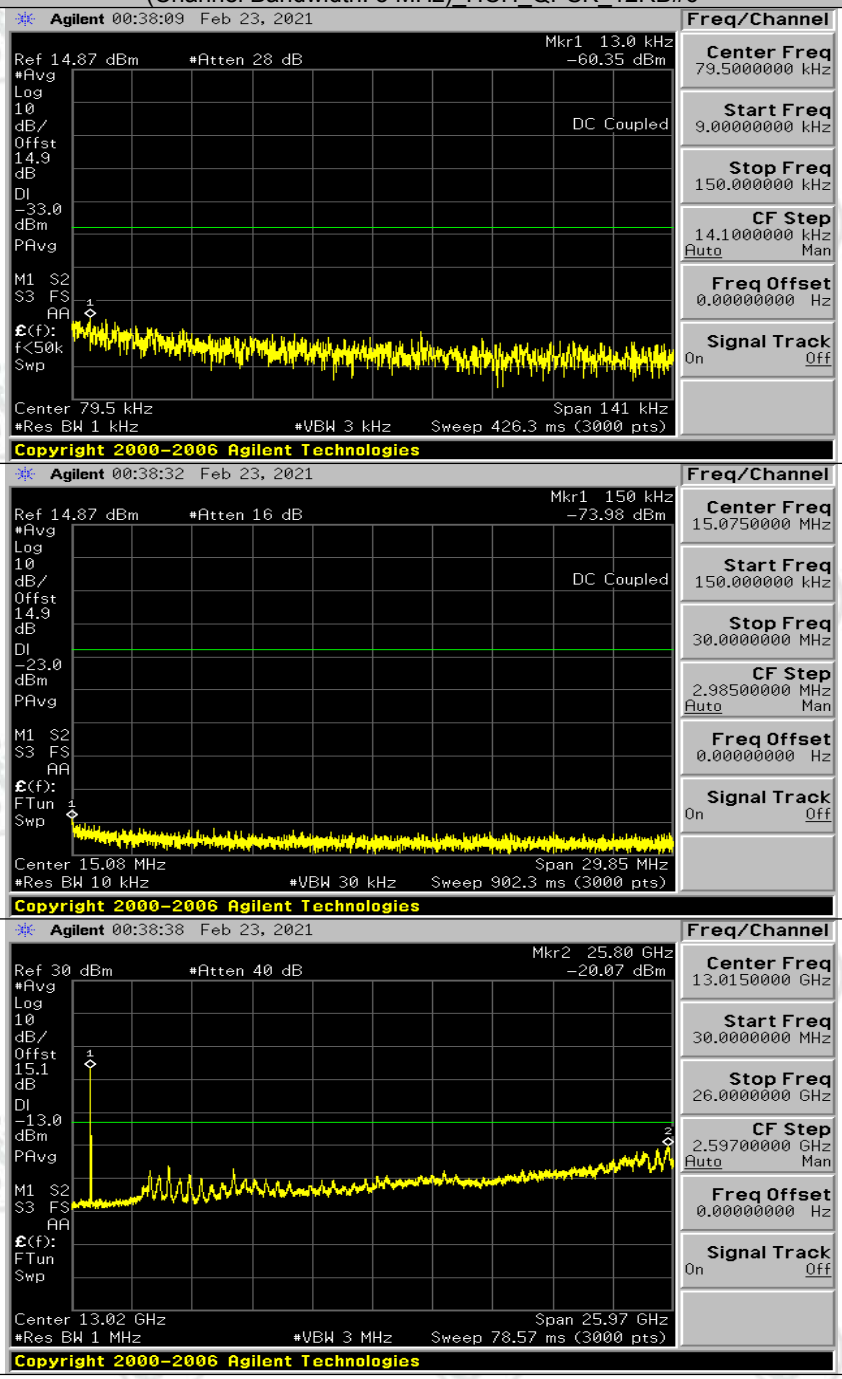
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



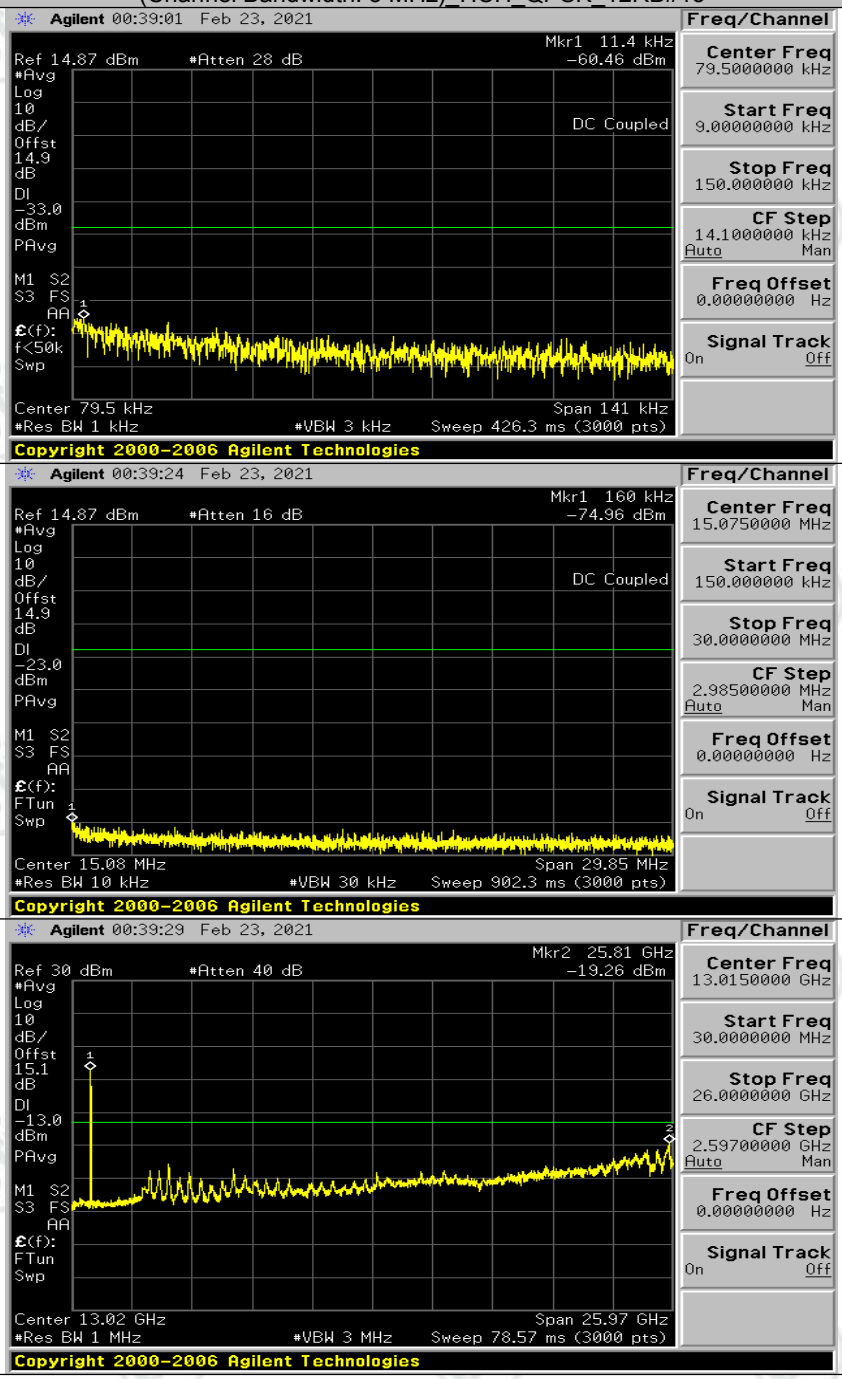




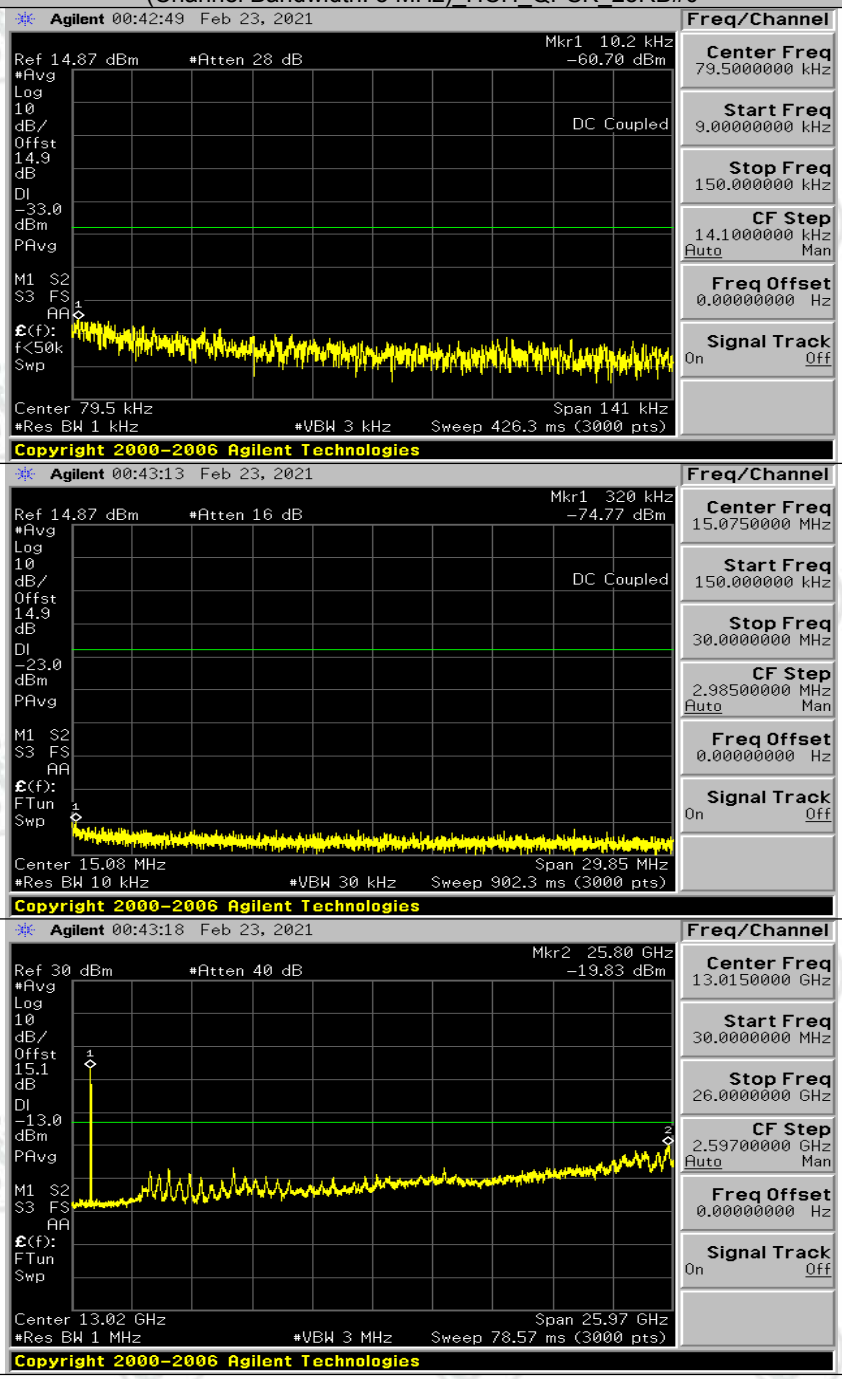
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



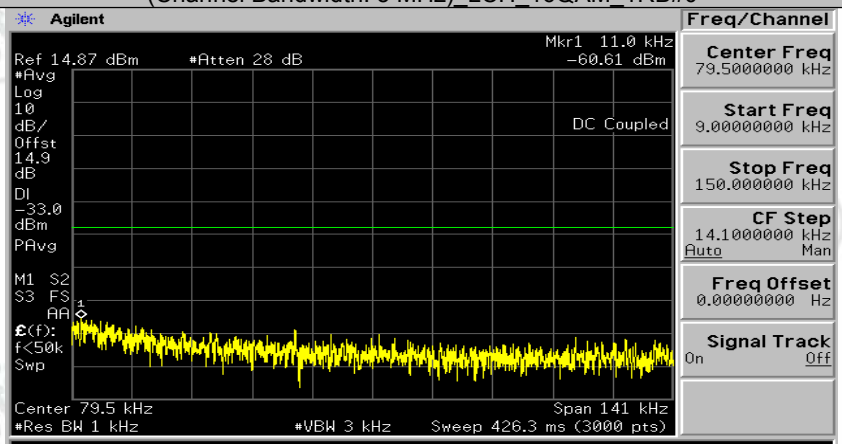
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

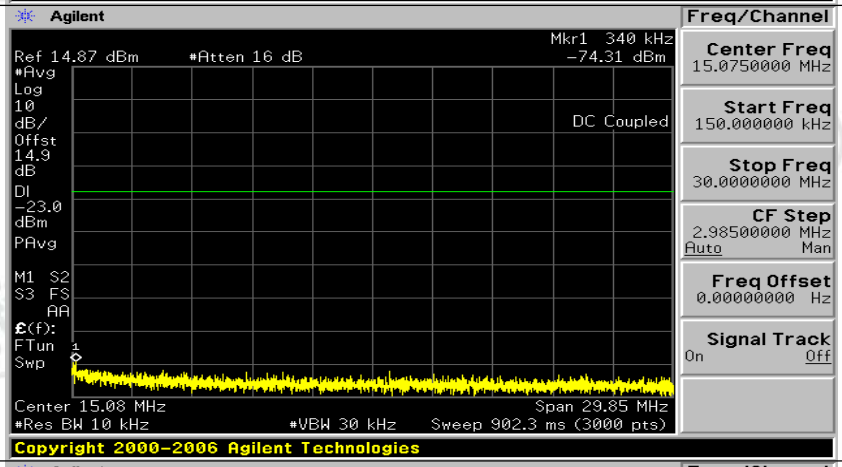


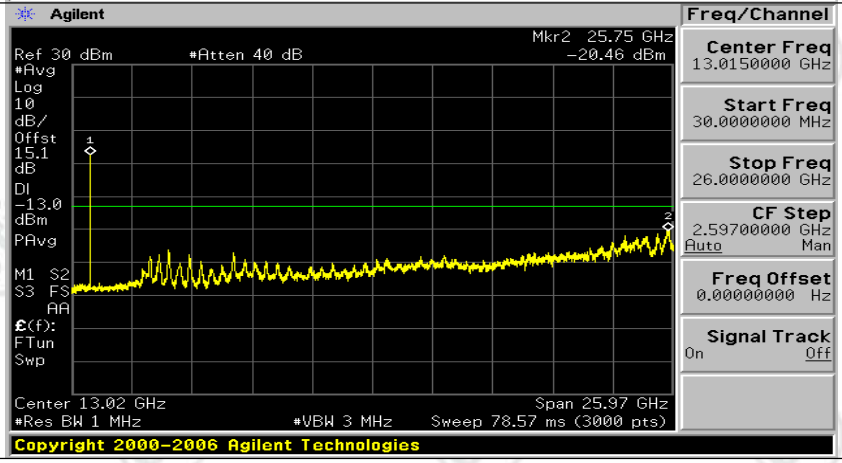
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



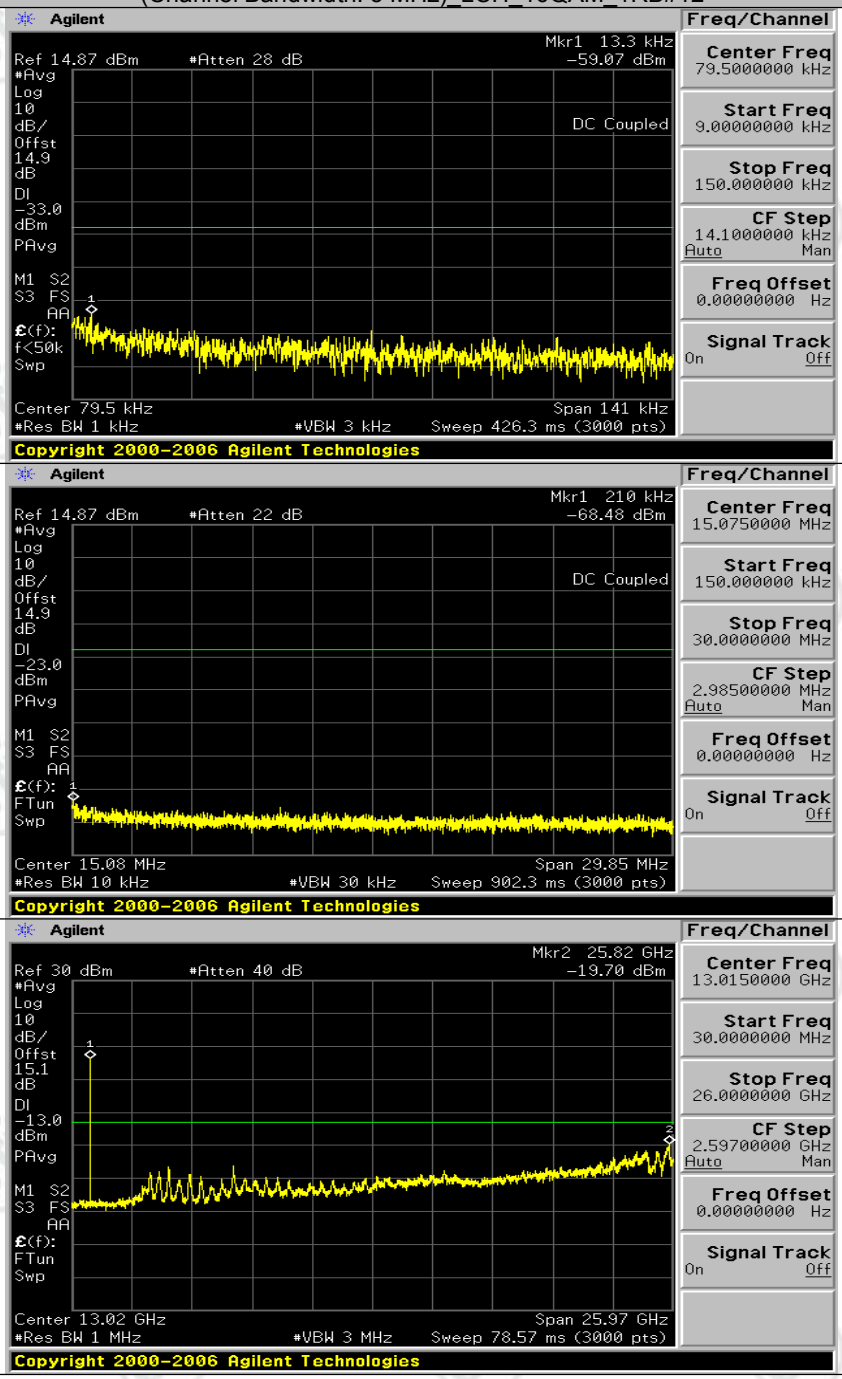
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



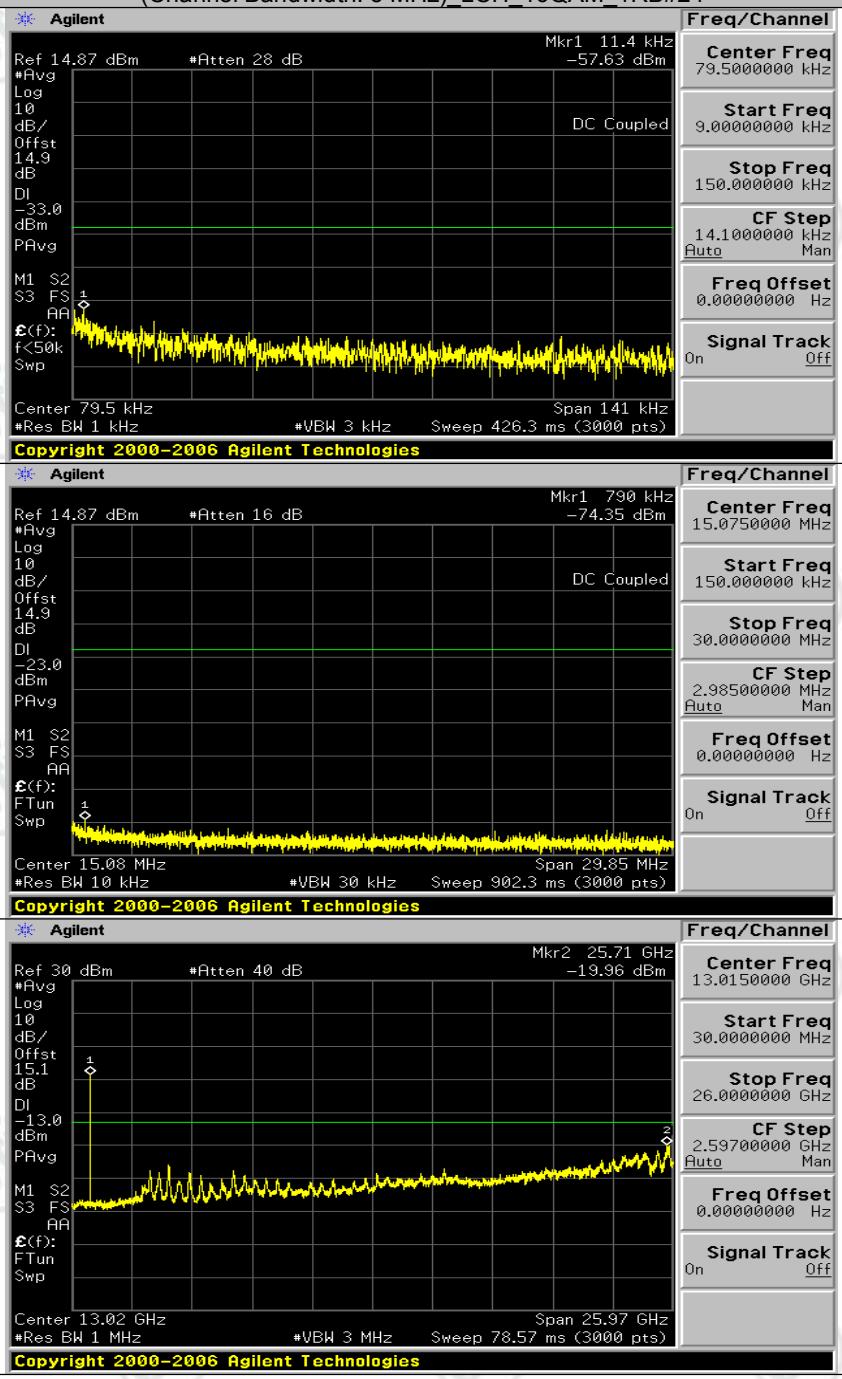




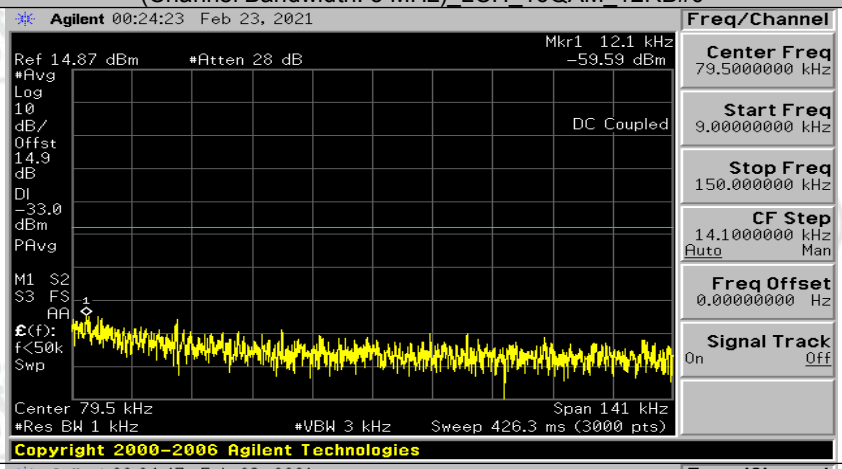
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

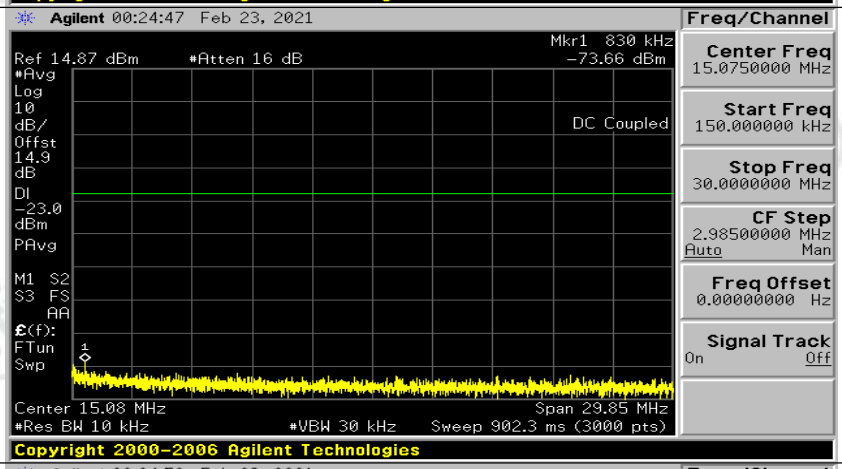


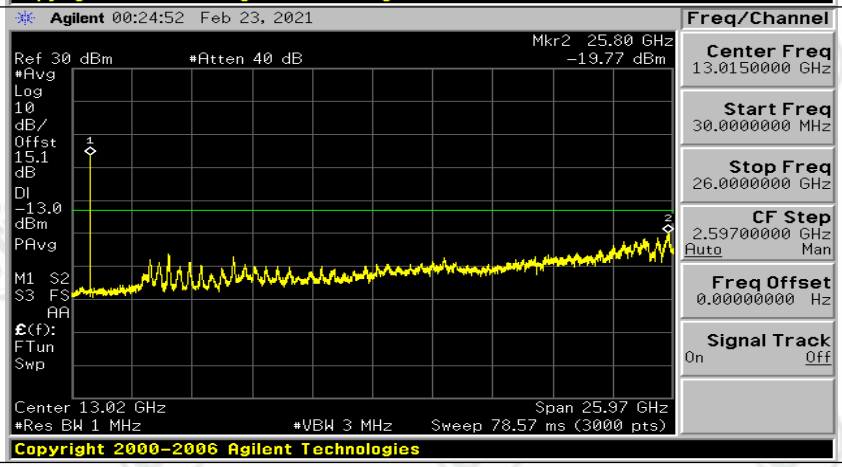
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



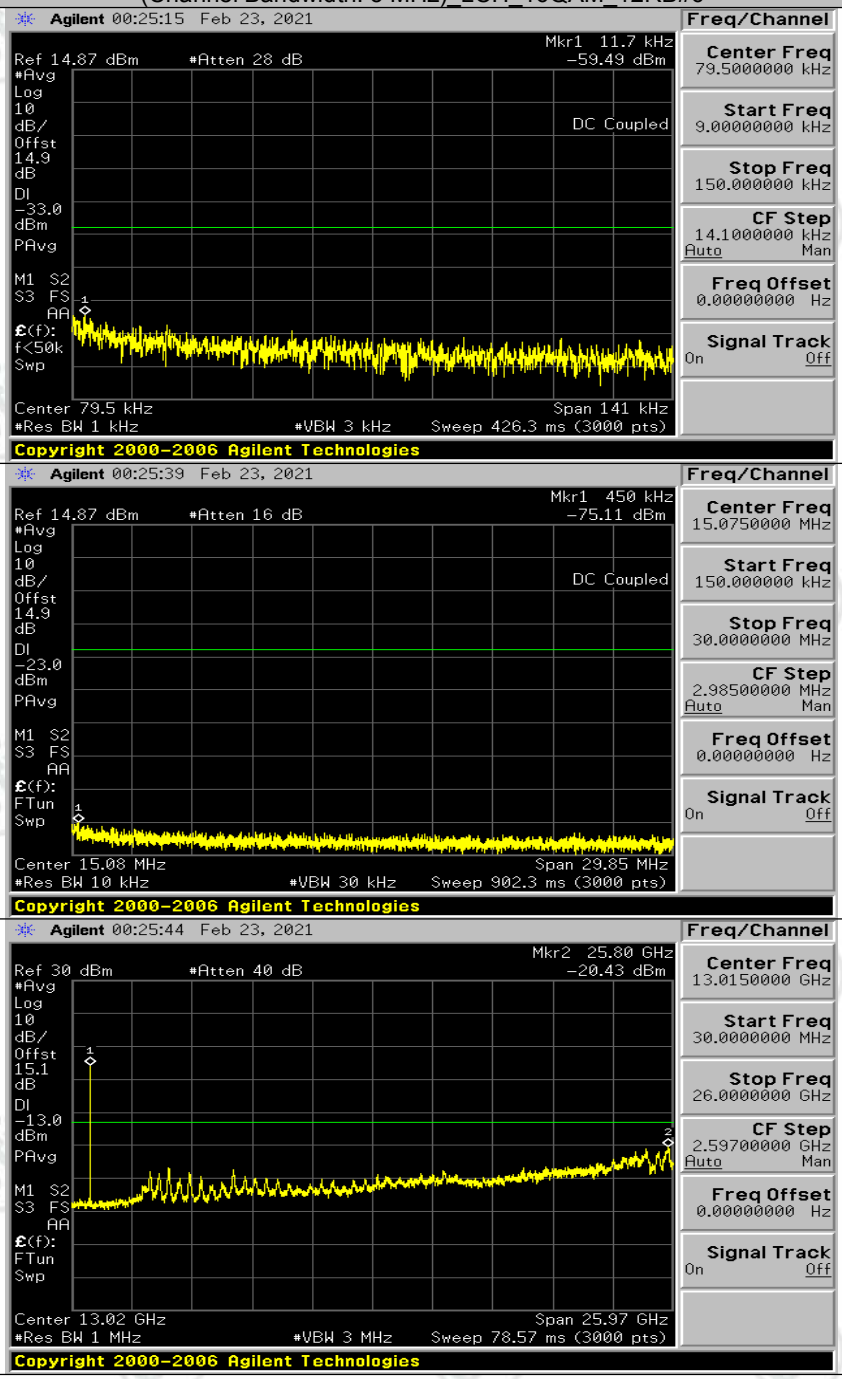
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



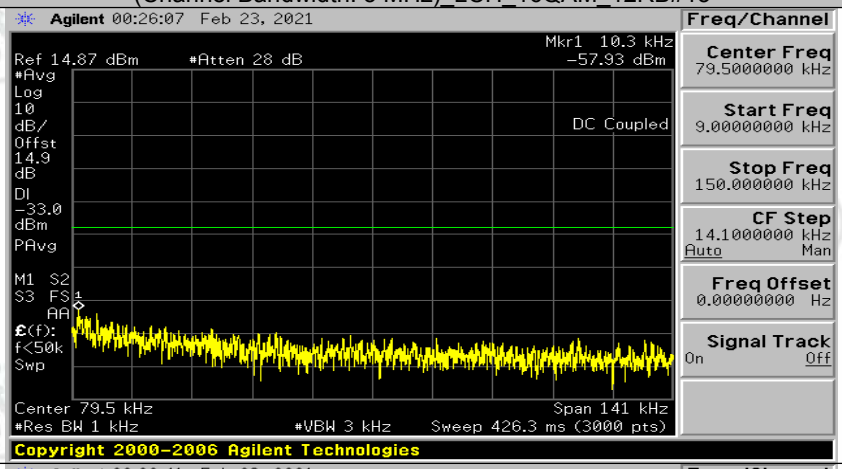


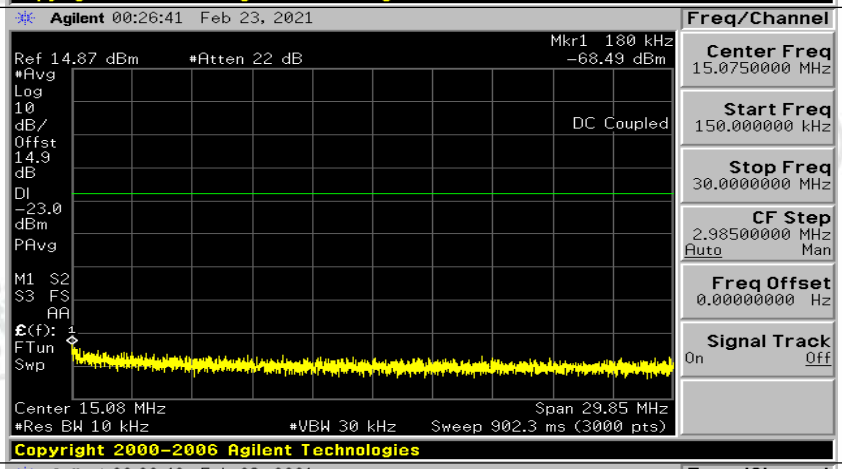


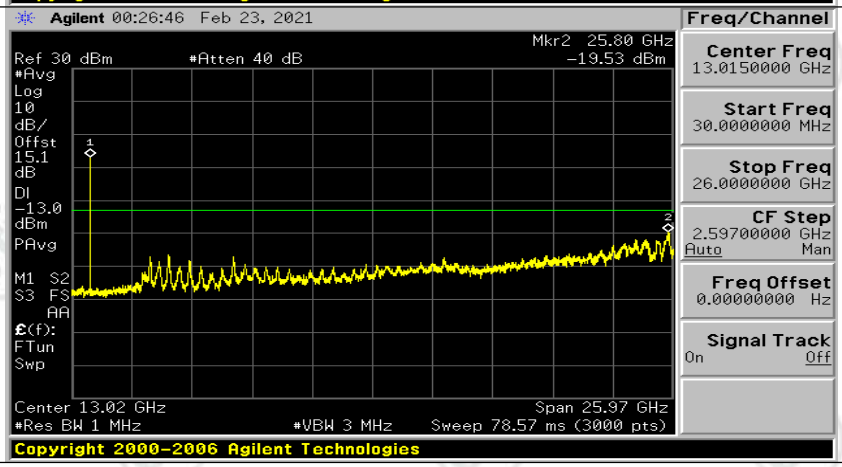
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



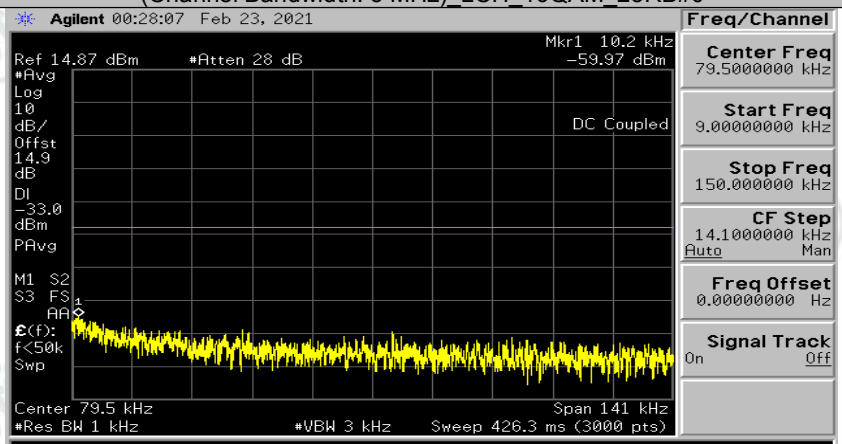
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13

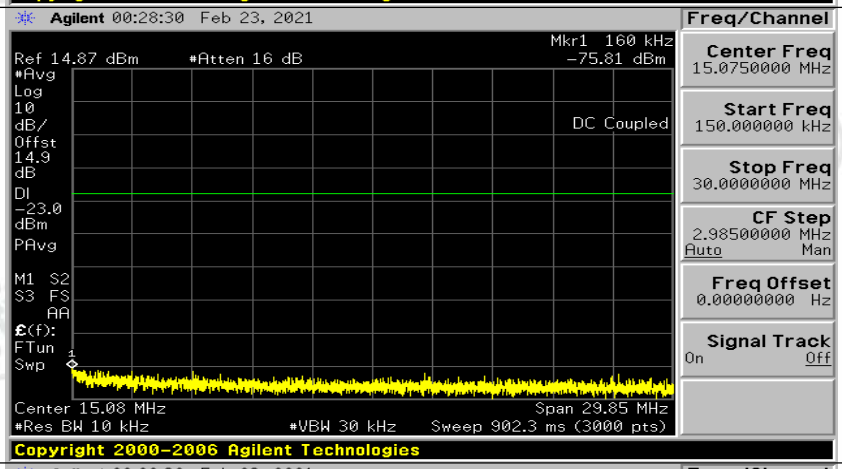


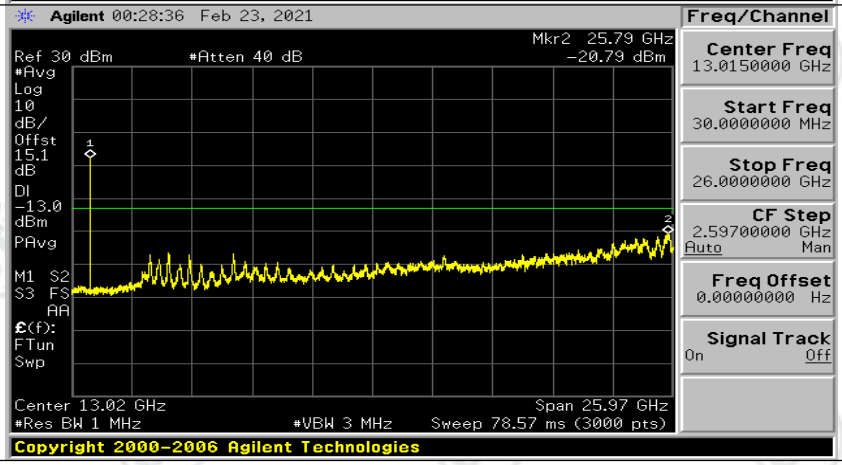




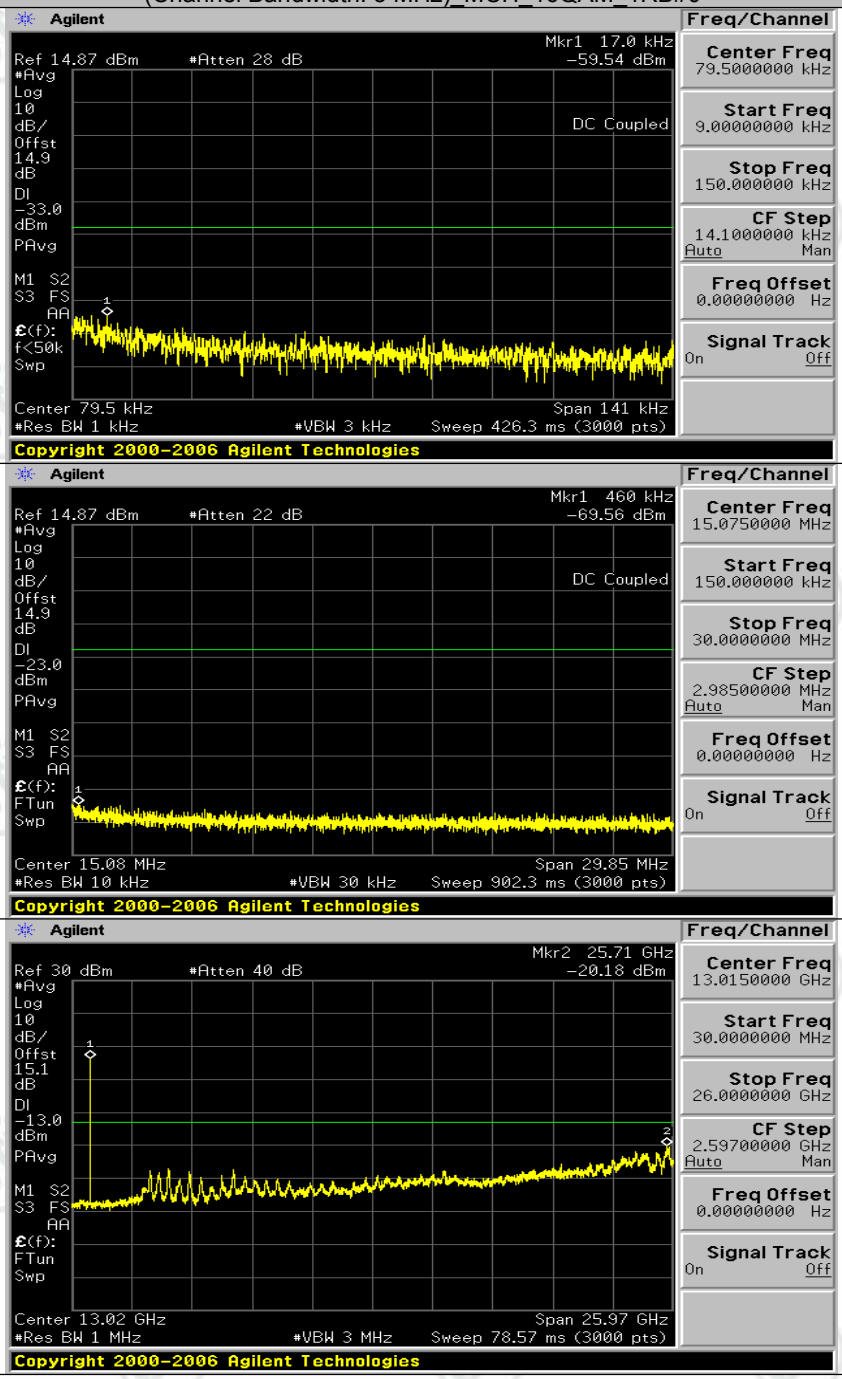
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



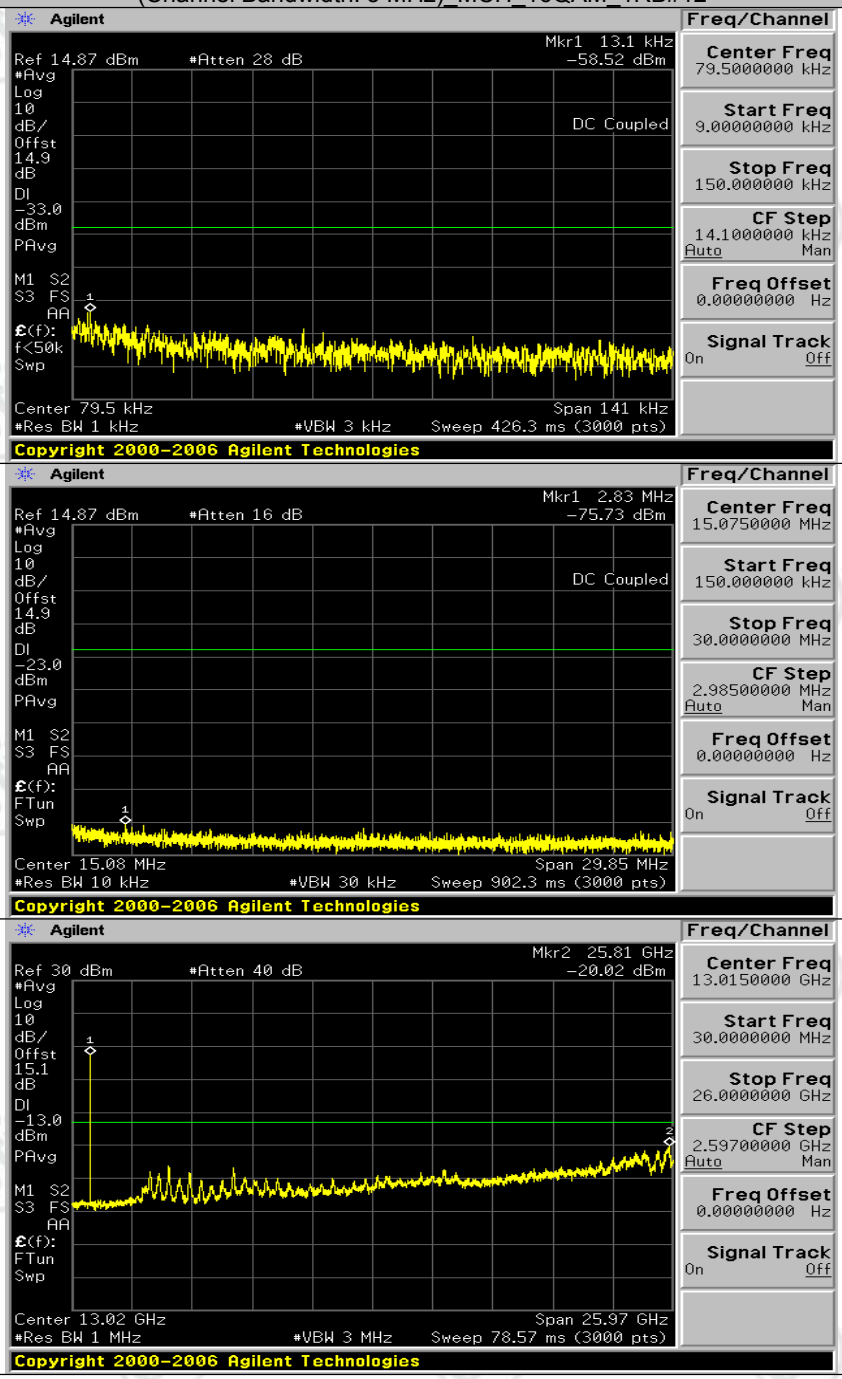


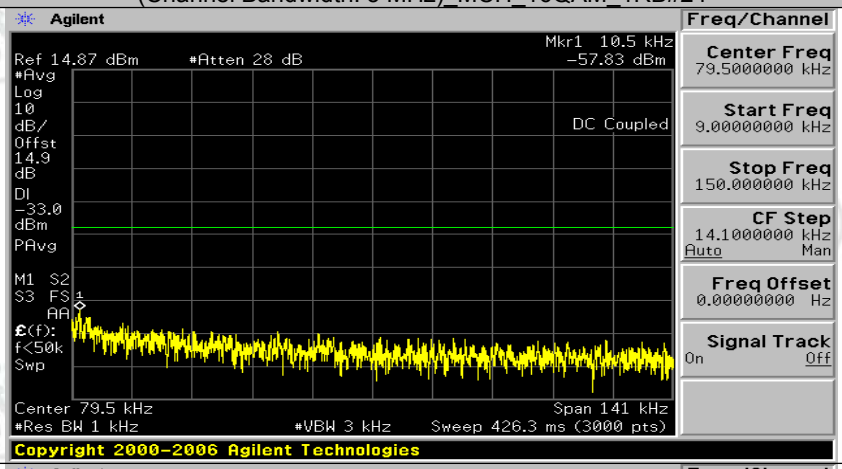
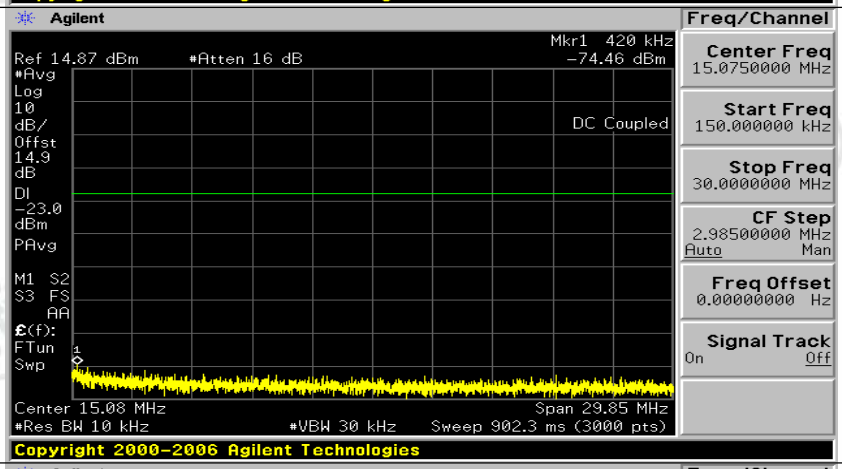
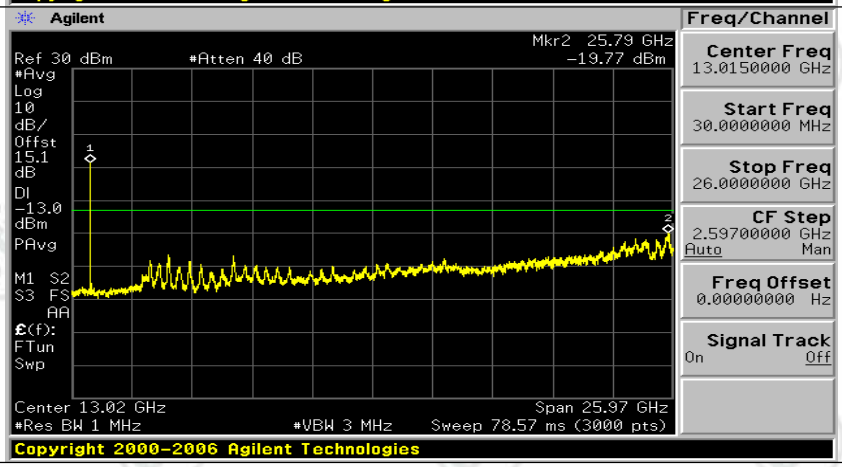


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

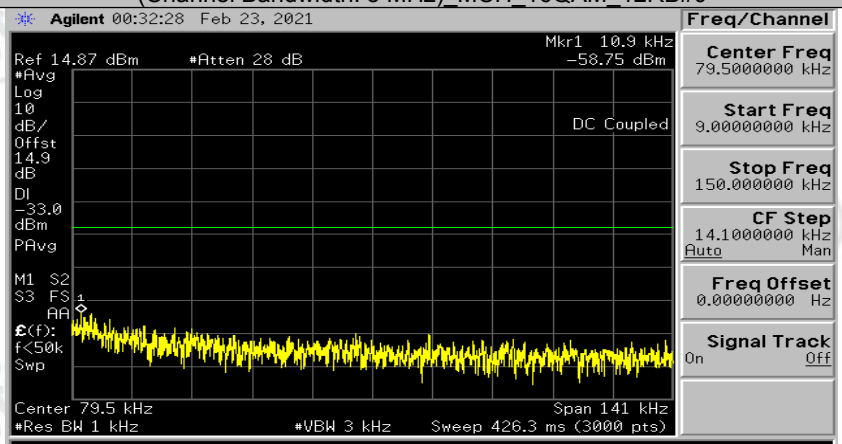


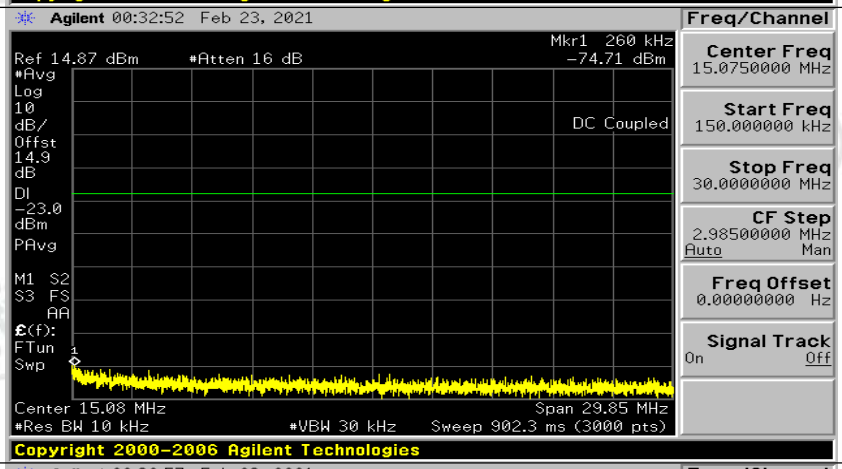
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

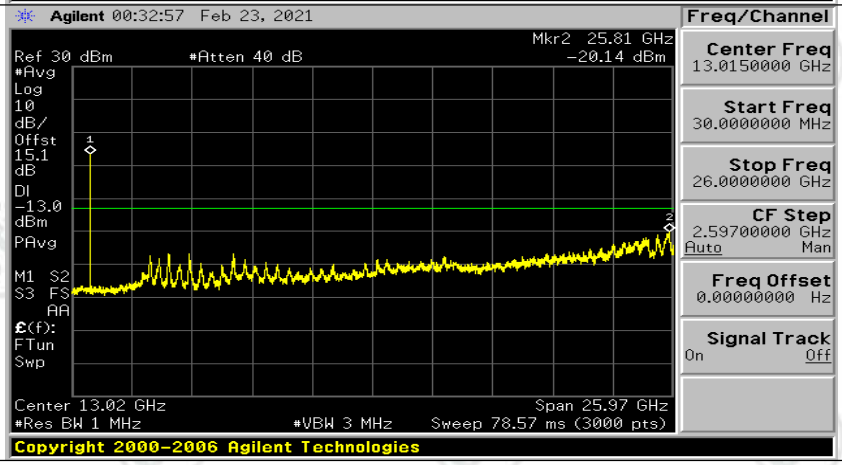


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24




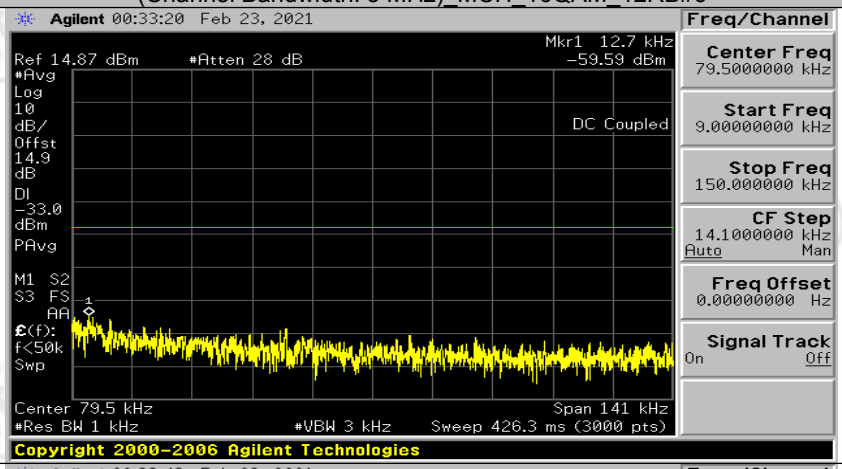
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0

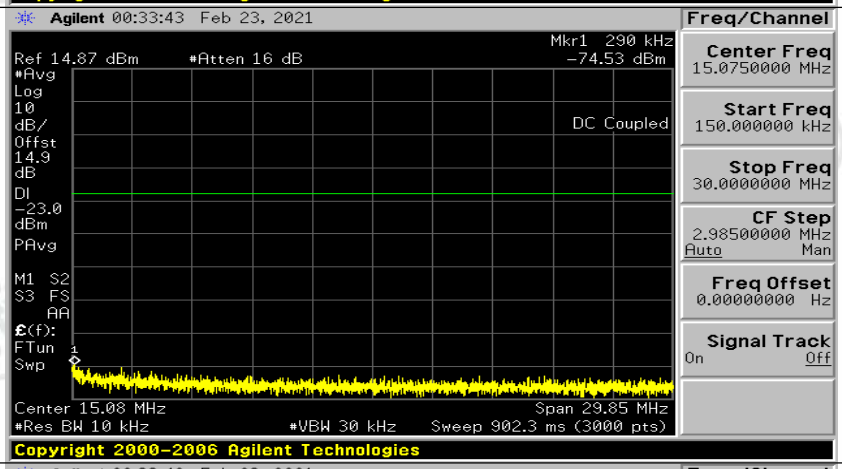


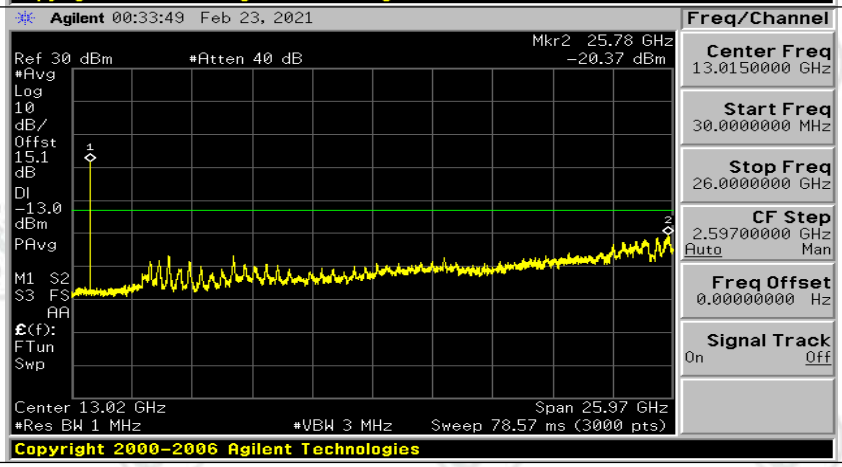




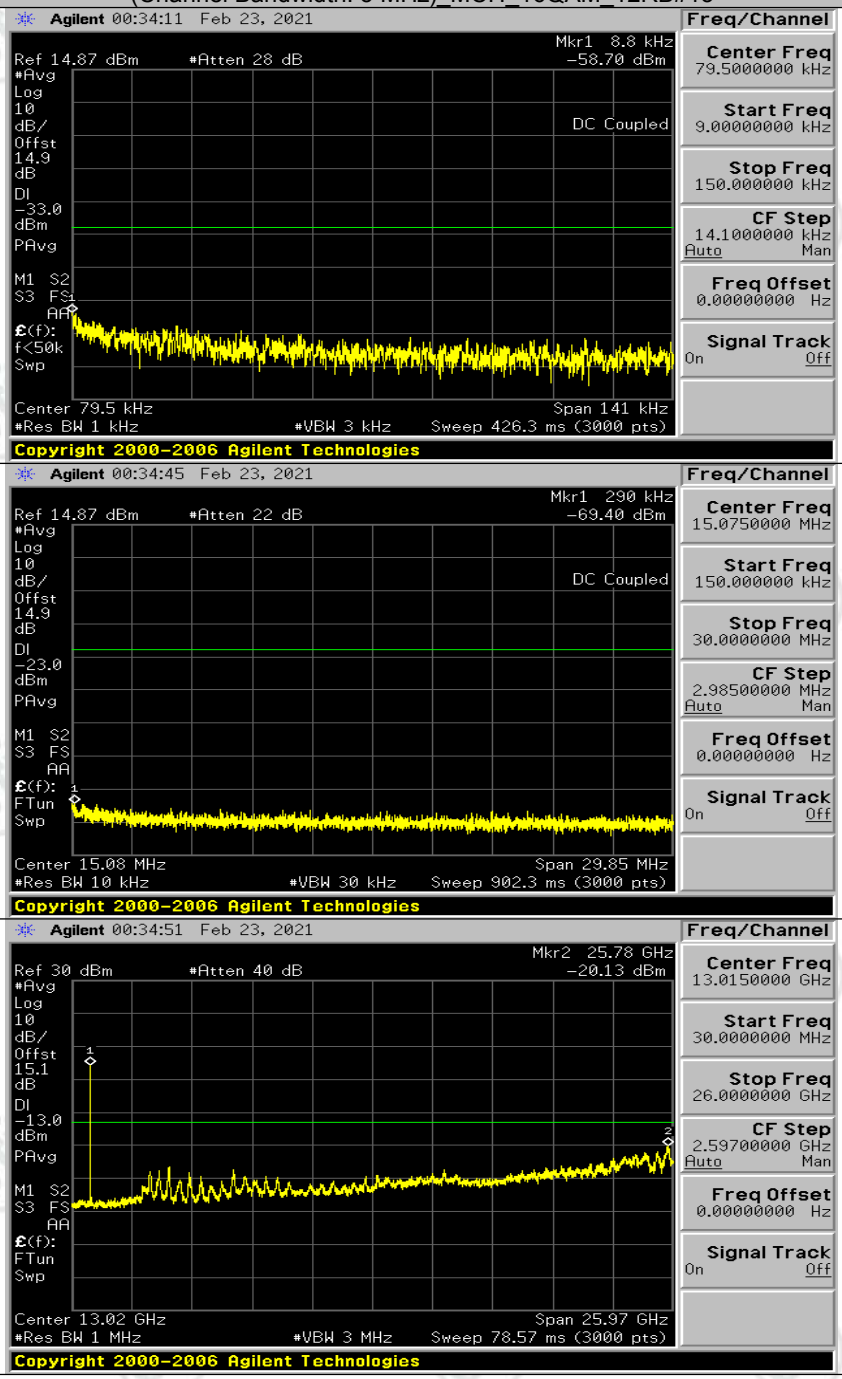
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6



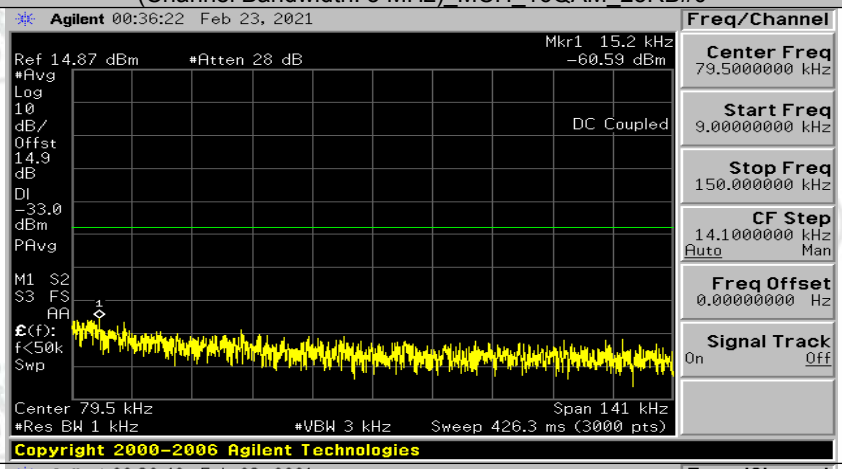


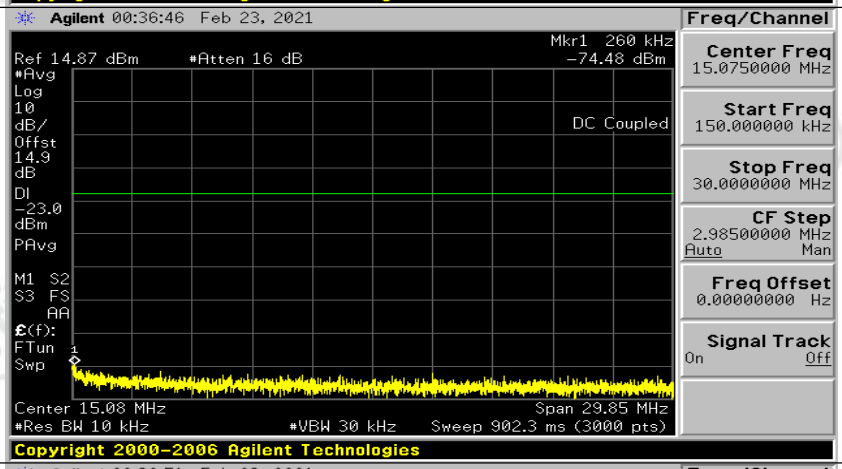


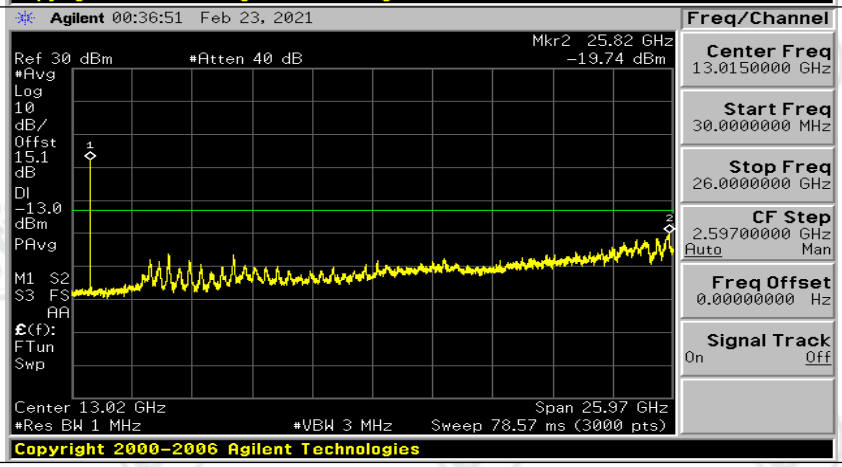
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



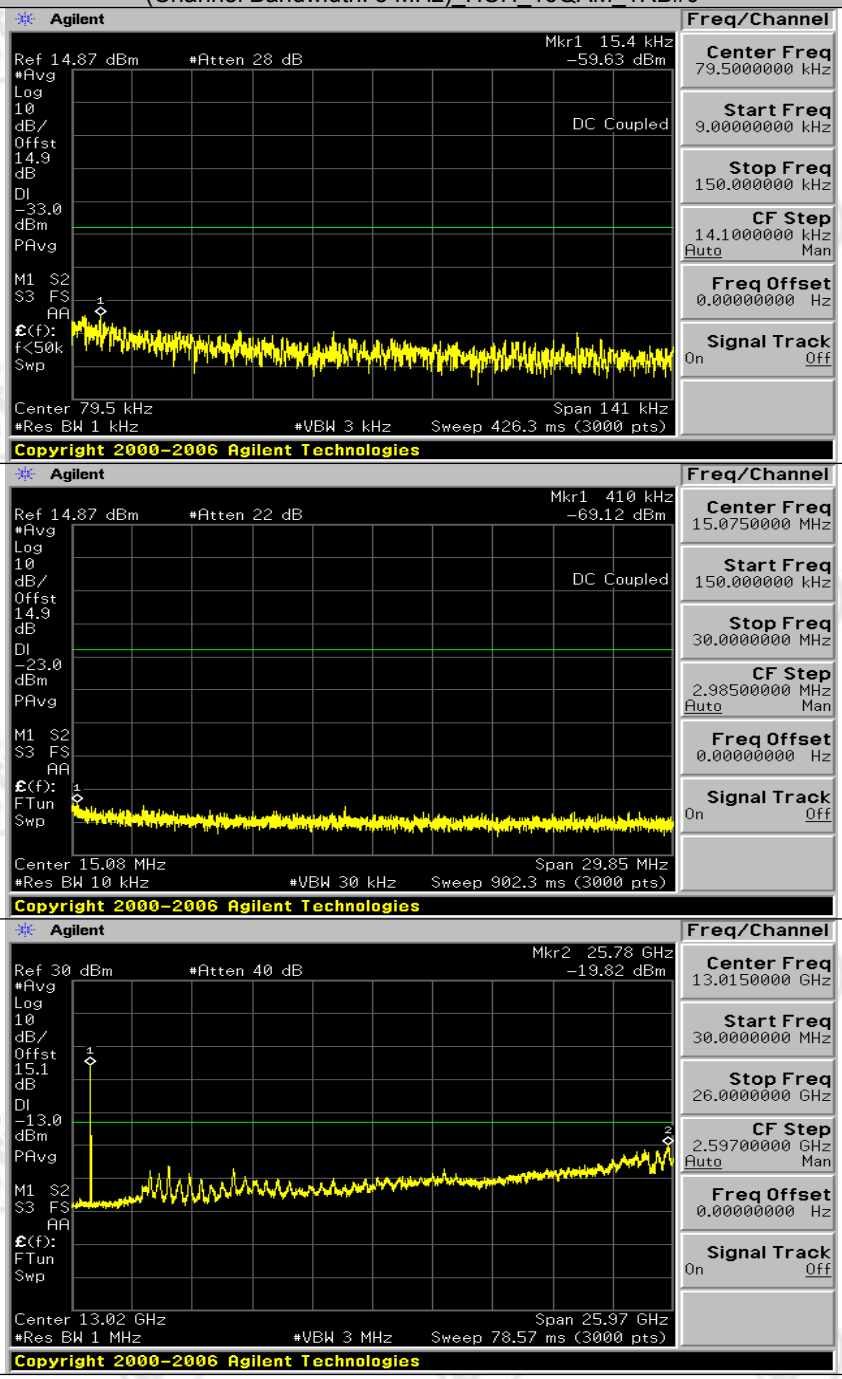
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



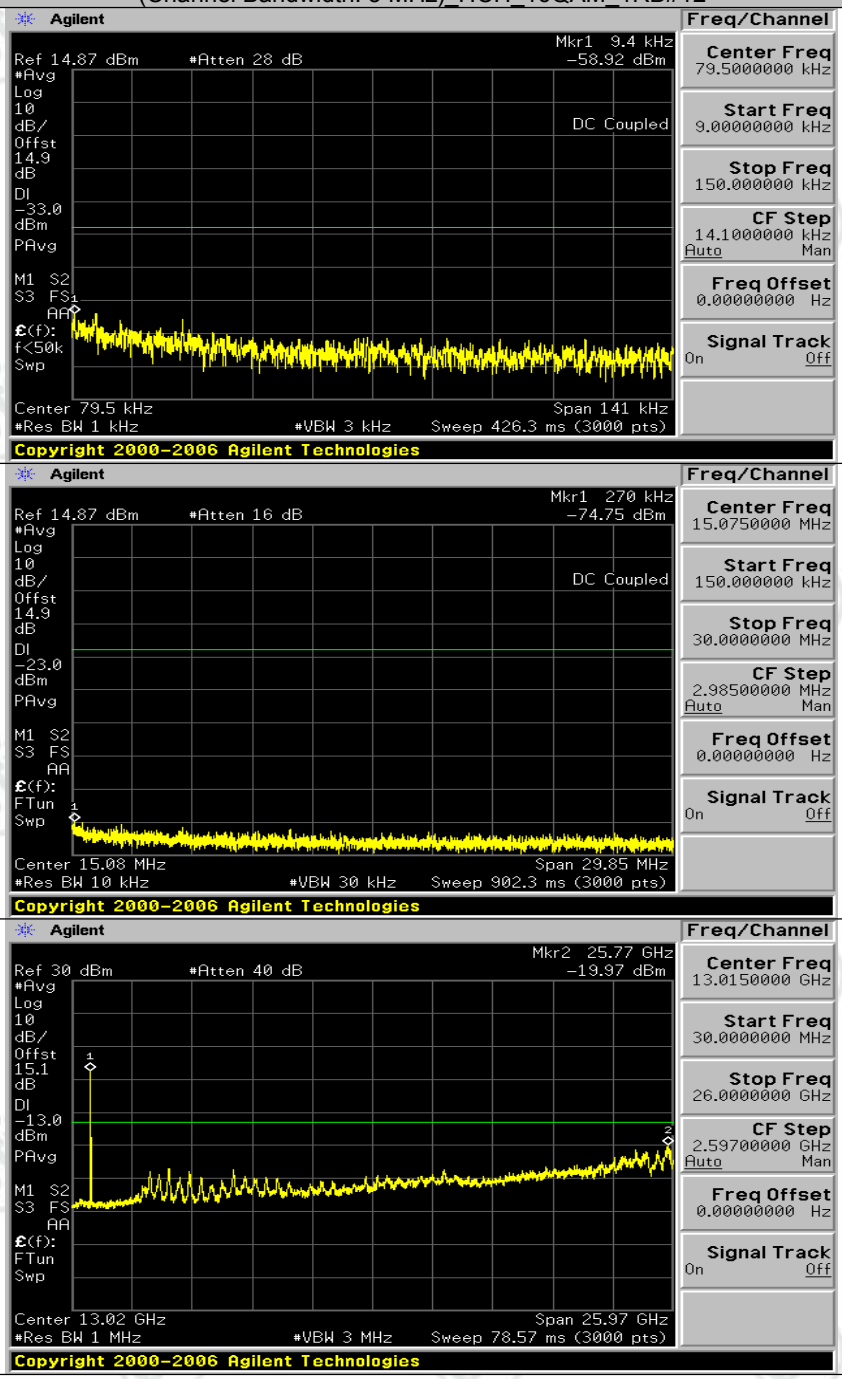




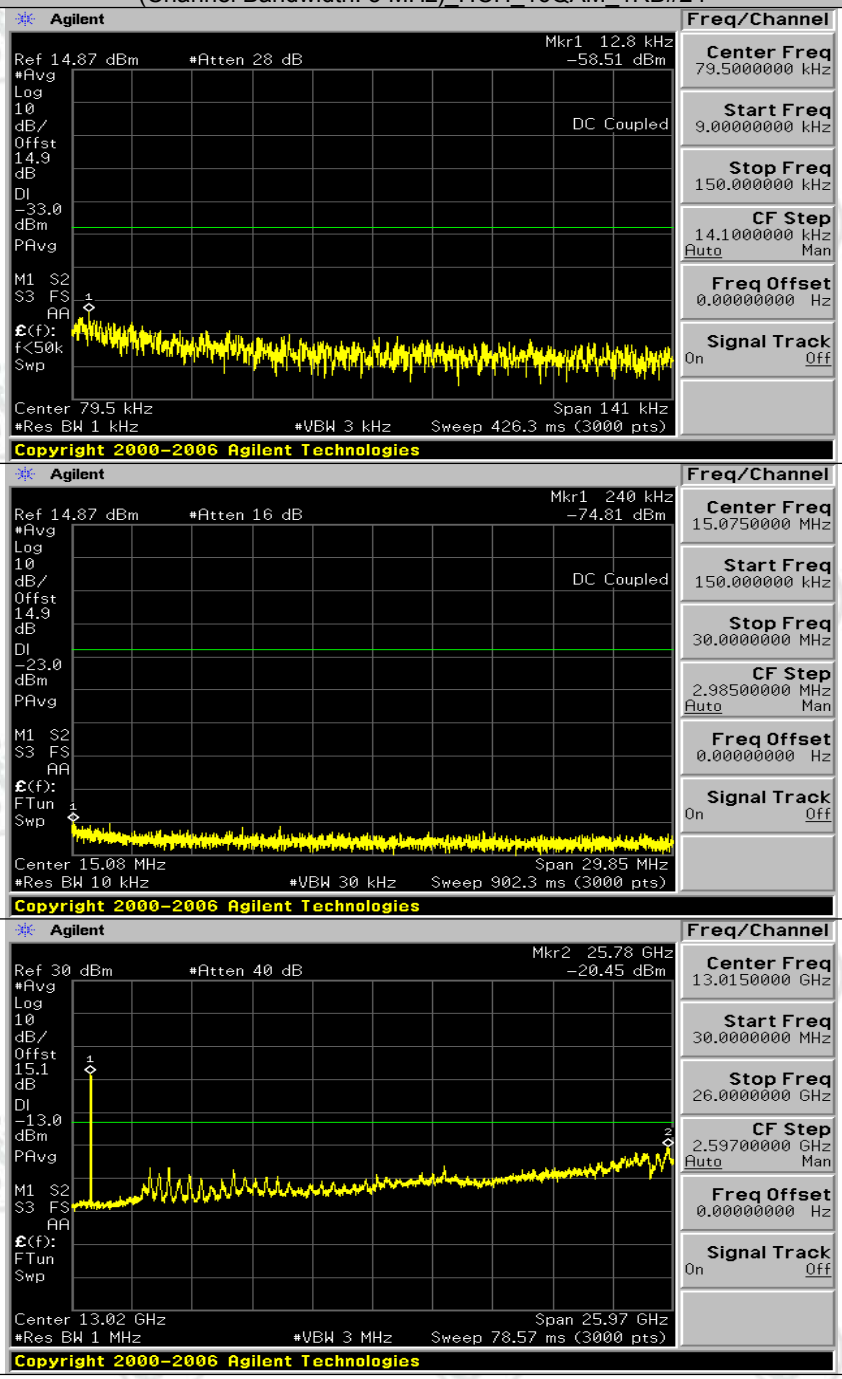
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



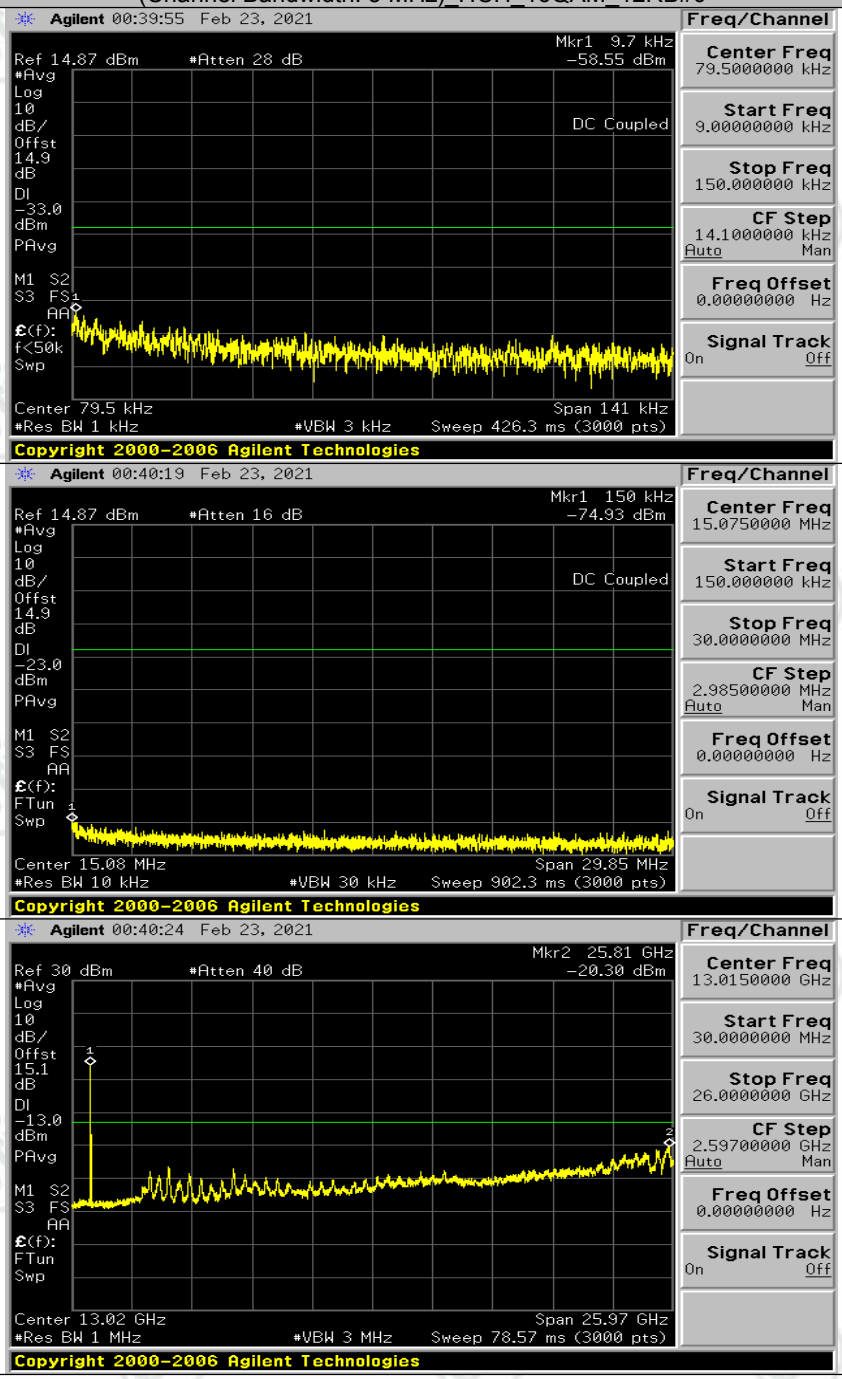
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



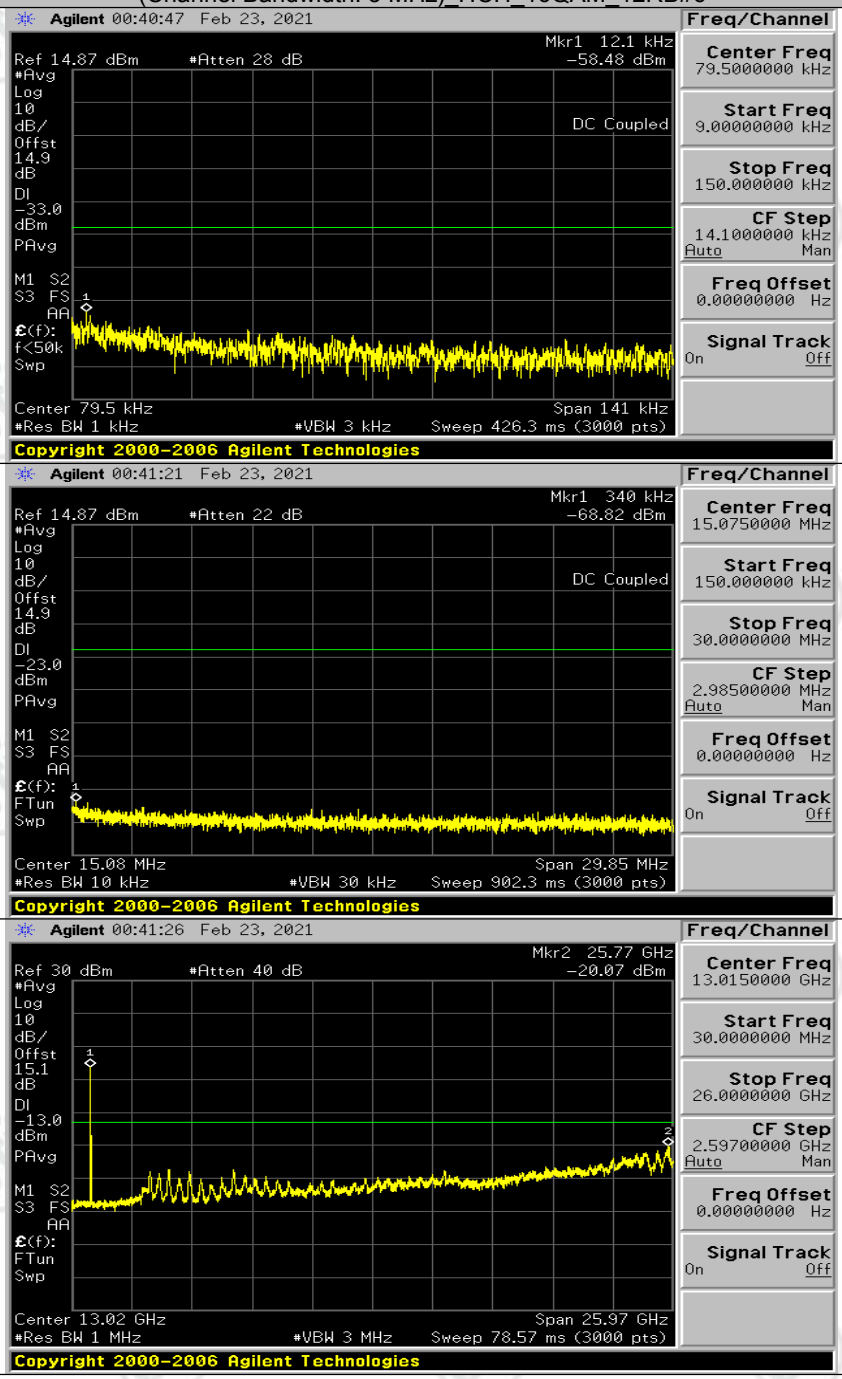
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



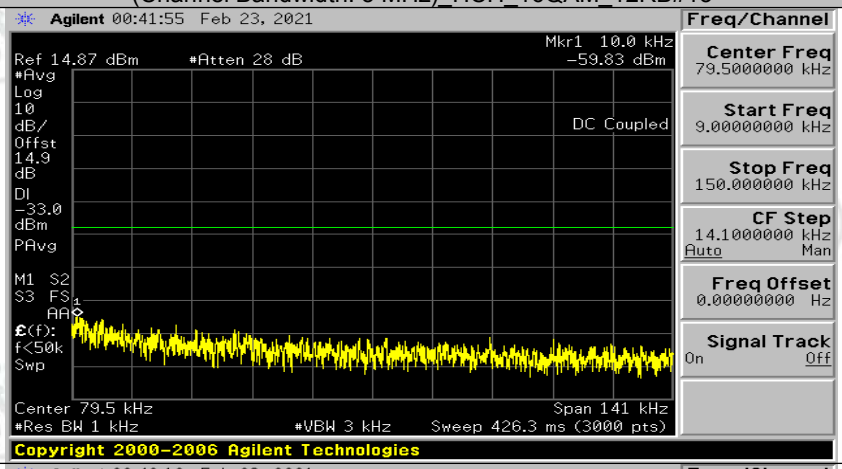
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0

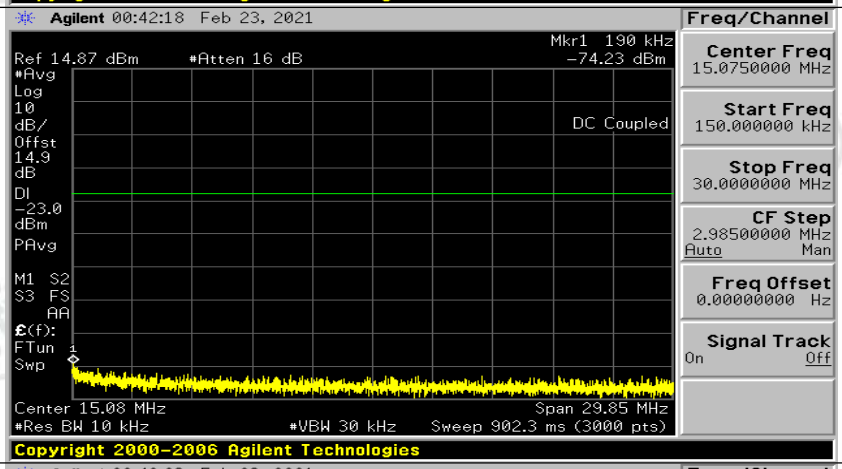


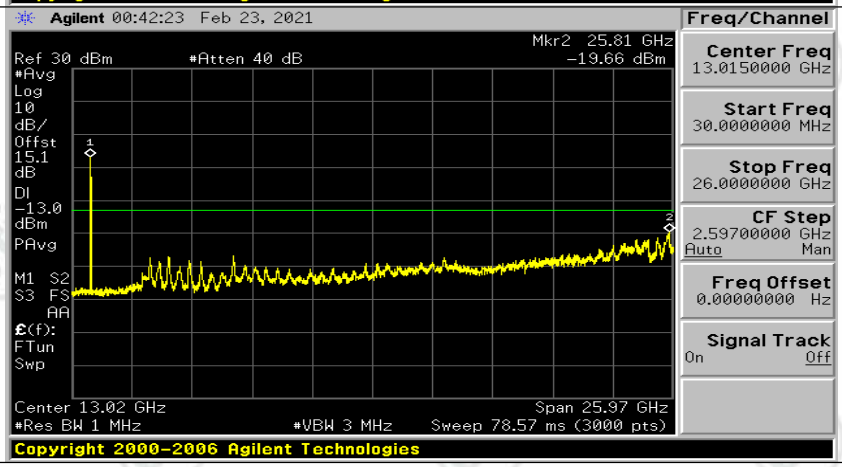
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



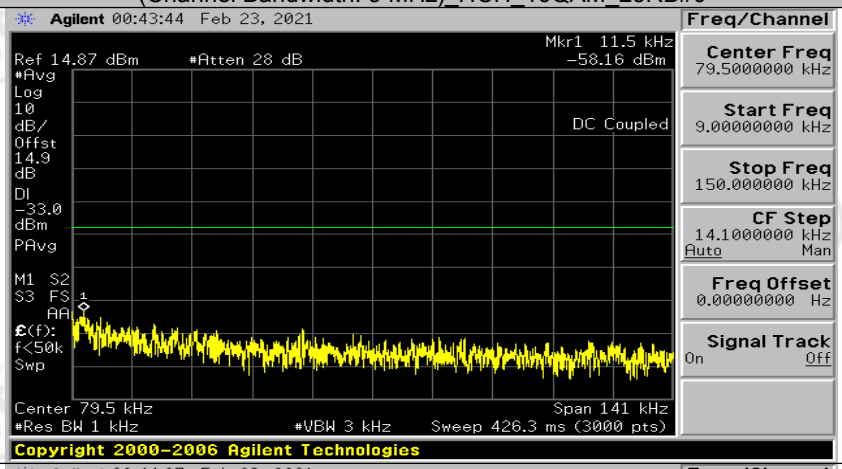
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

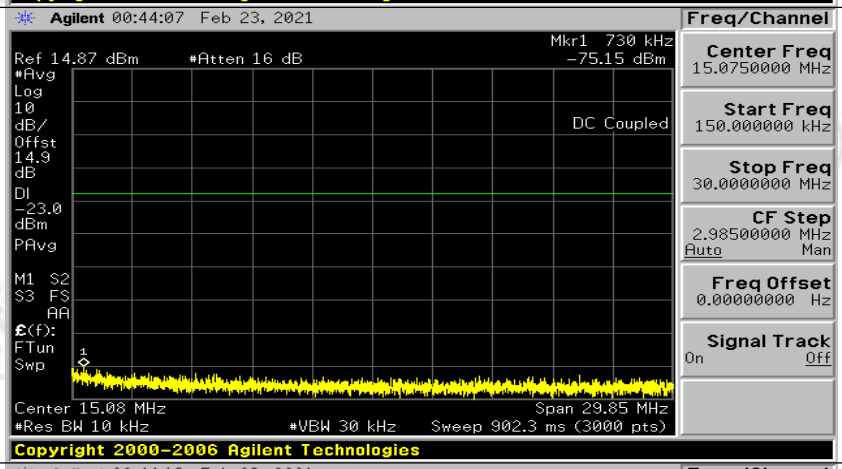


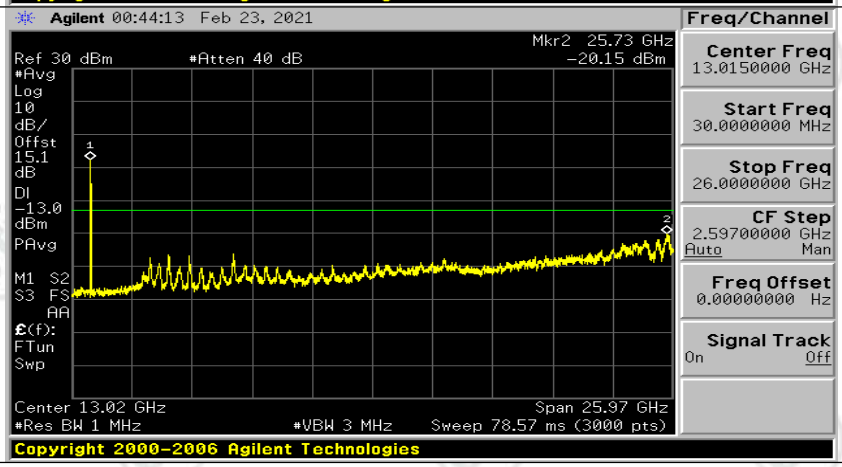




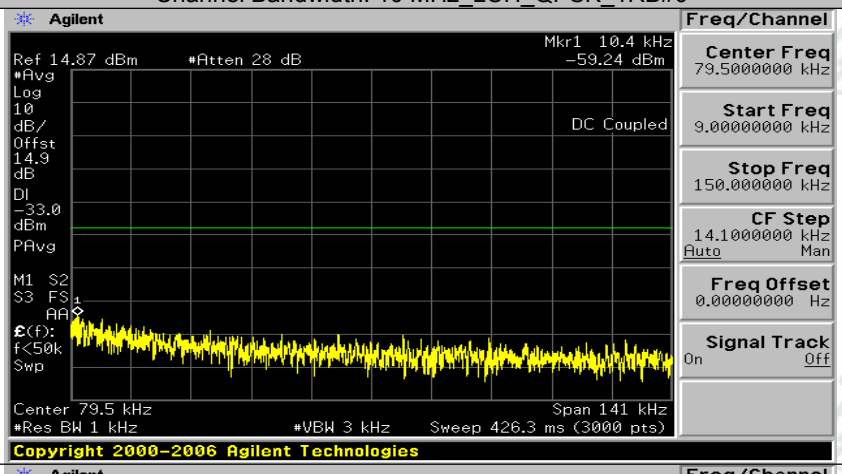
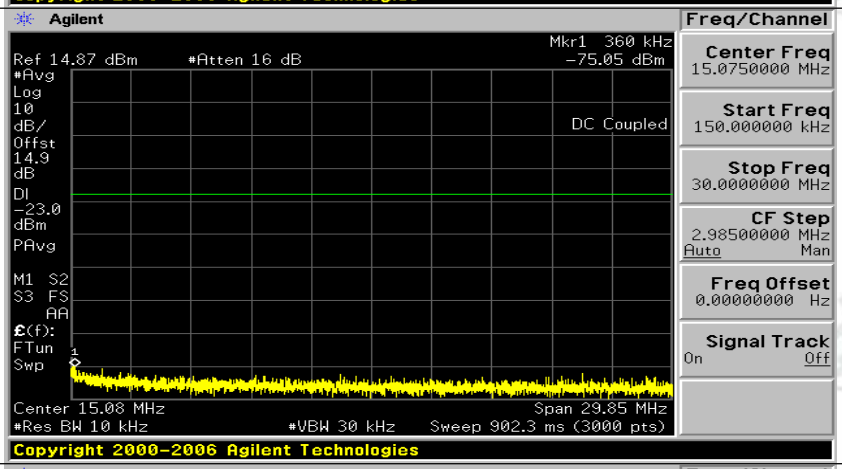
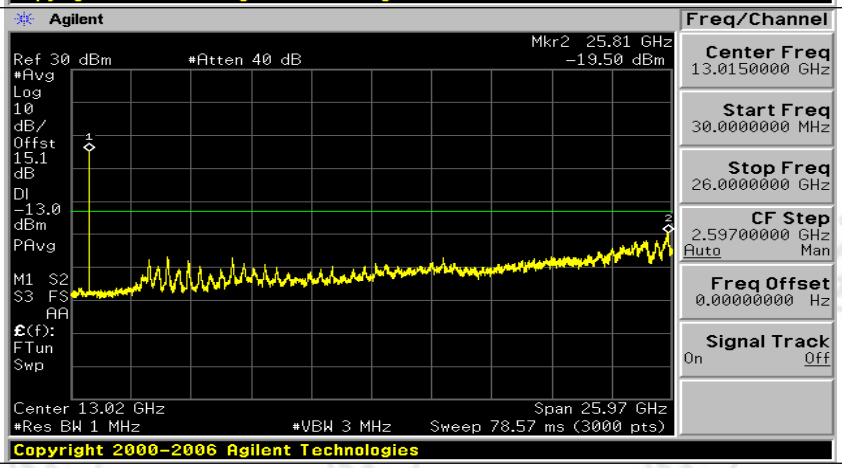
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

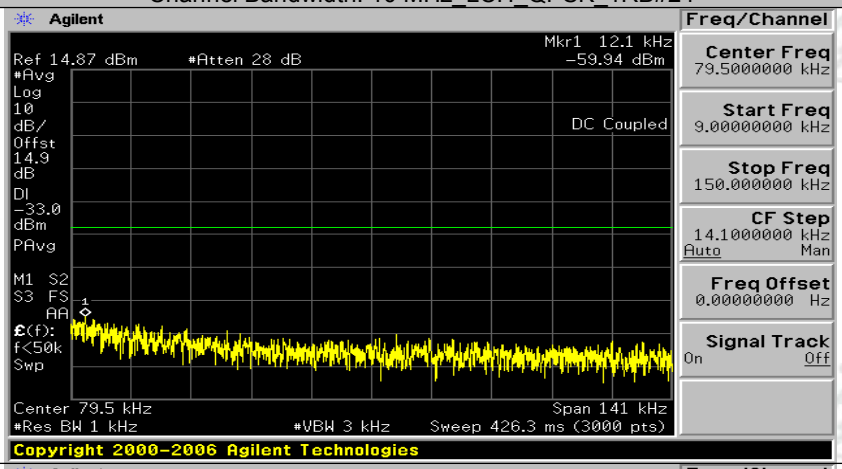
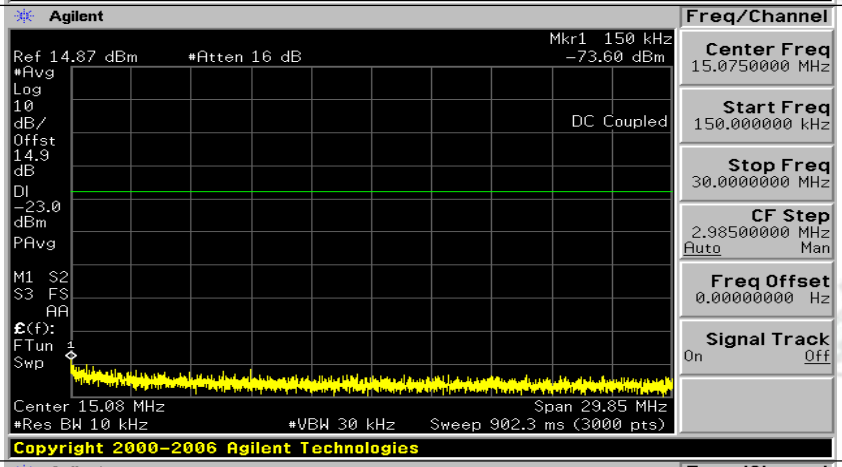
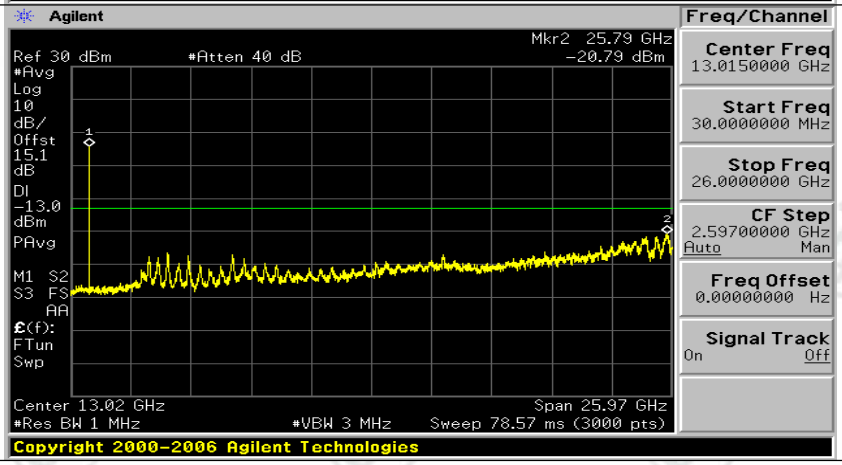


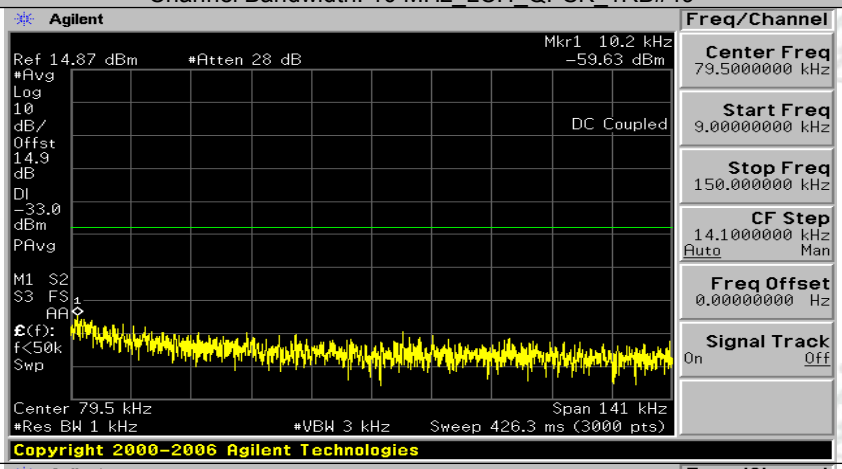
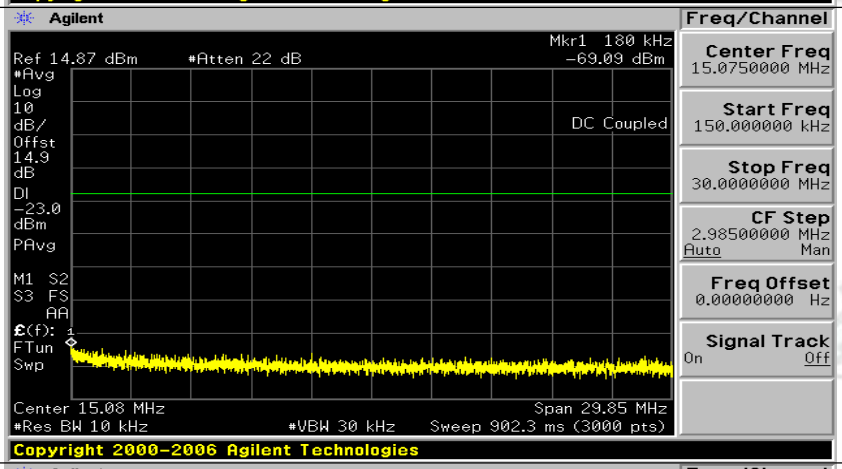
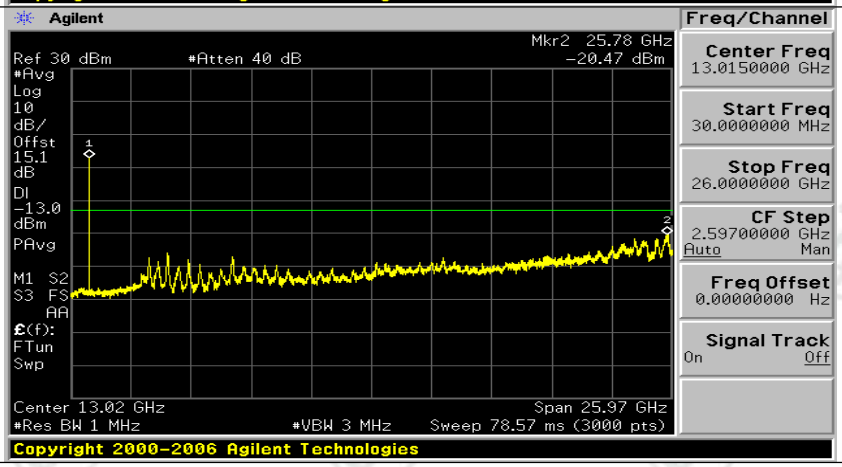




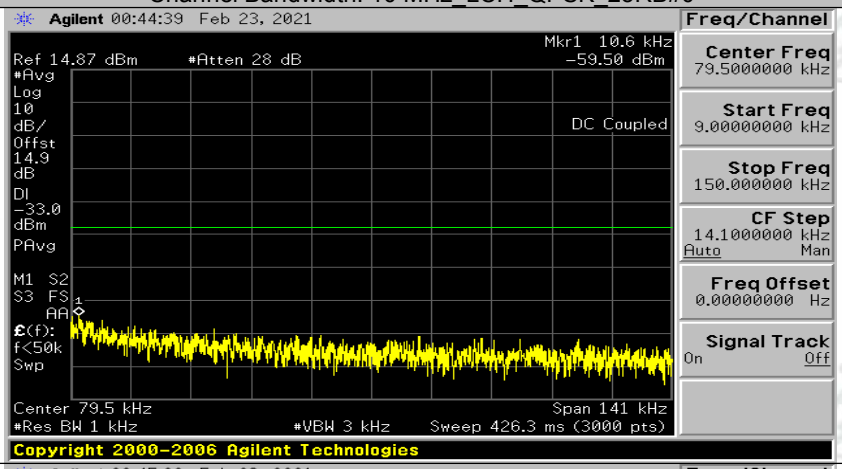
Channel Bandwidth: 10 MHz

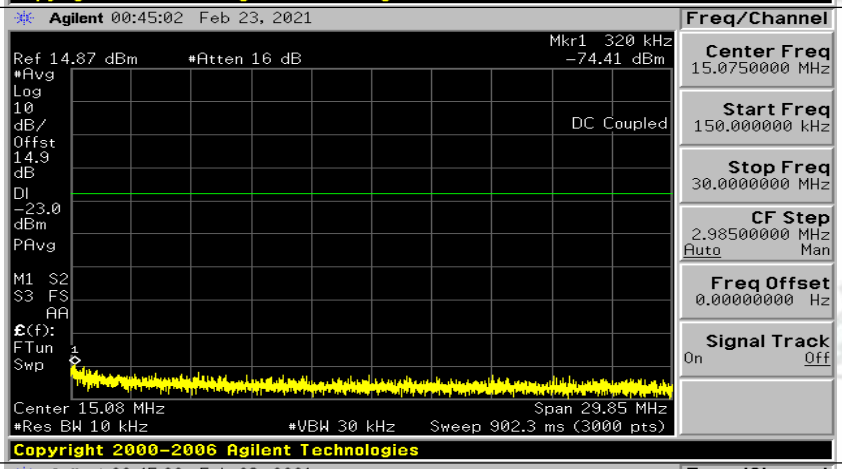
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0




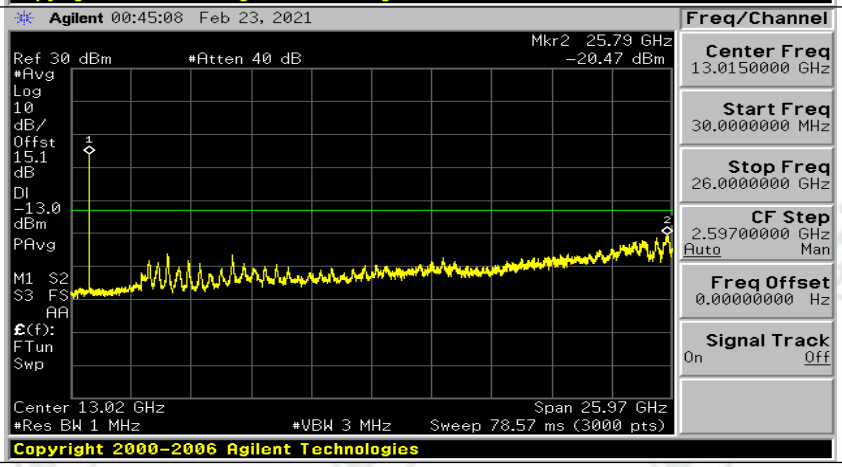
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24




Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49




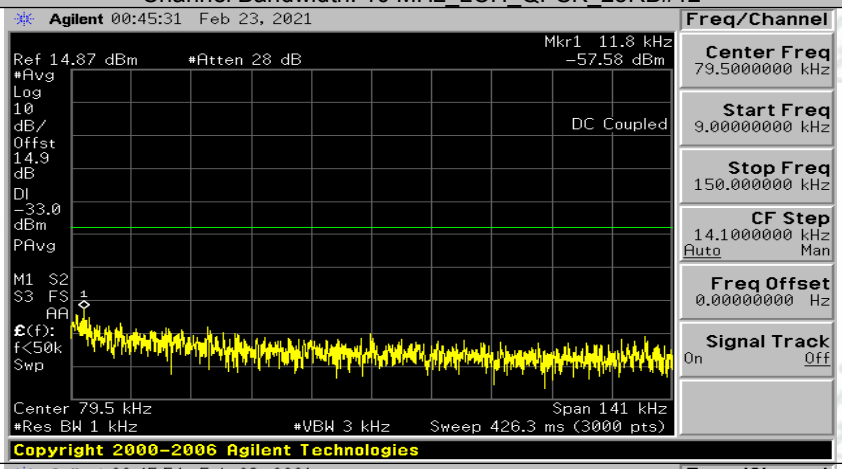
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0

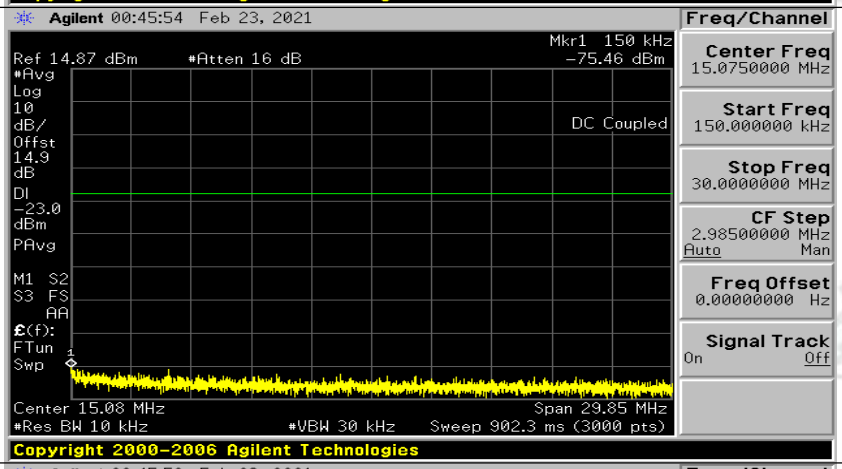


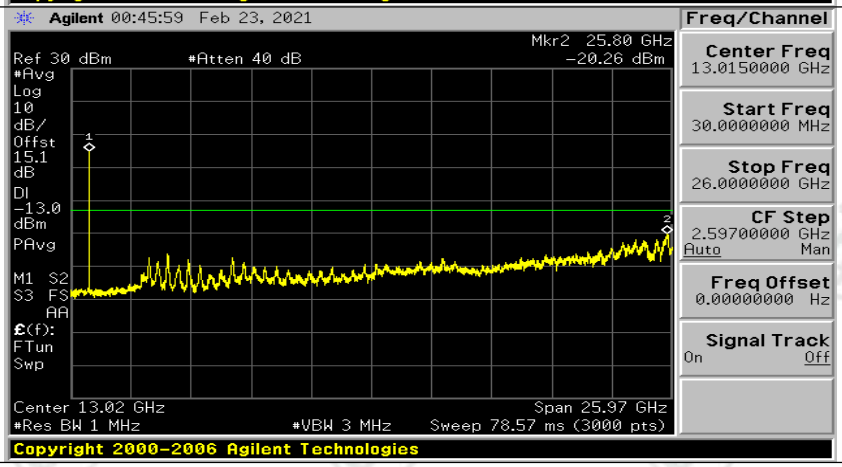




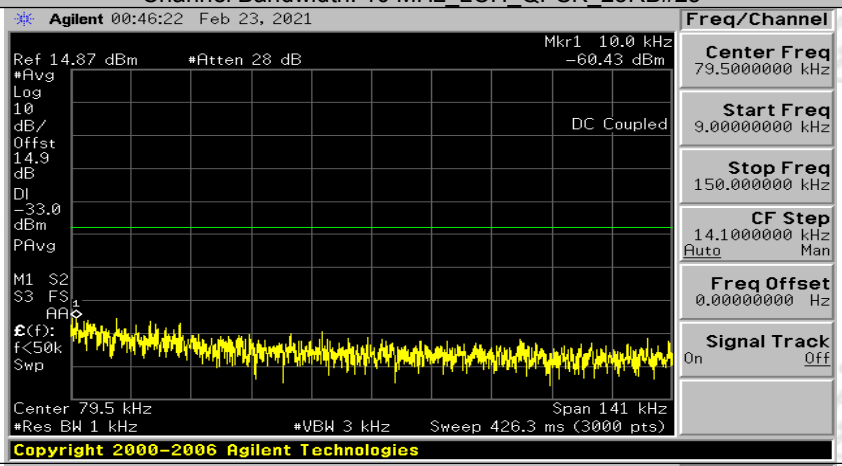
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

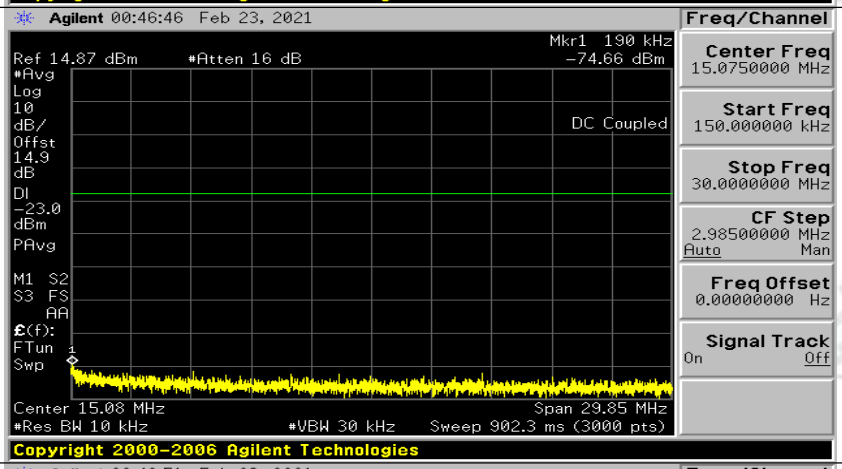


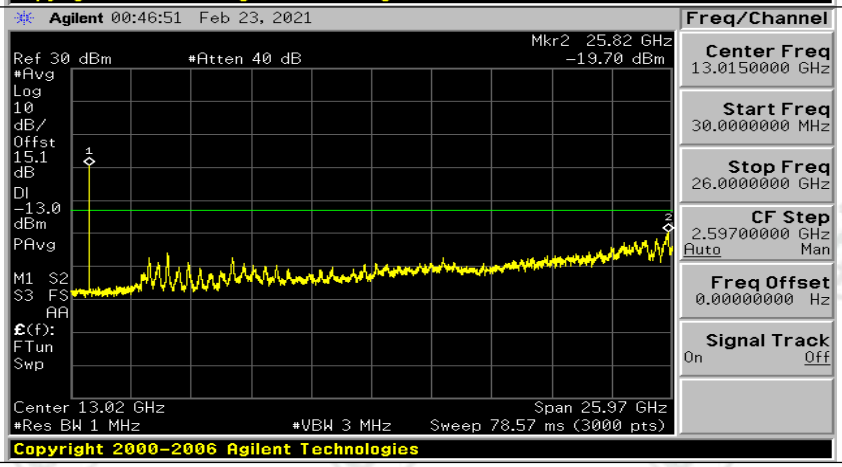




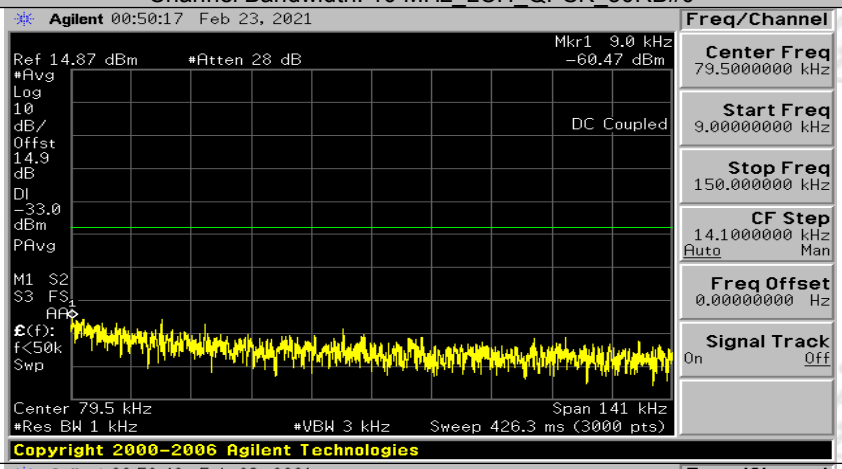
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25

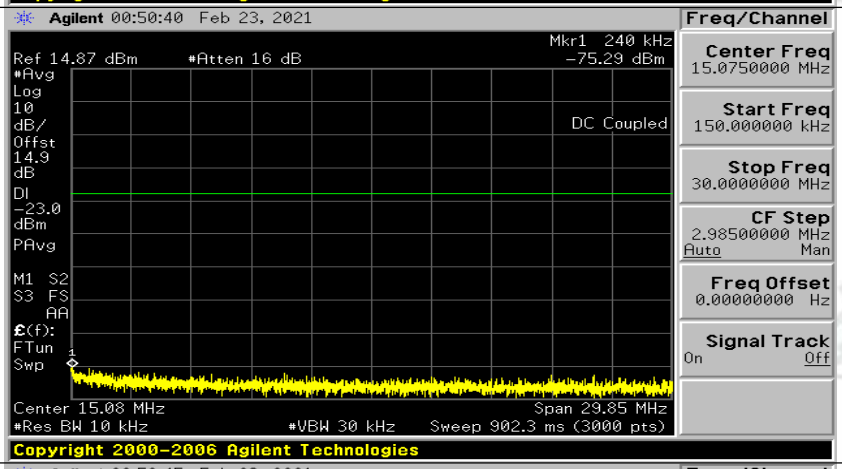


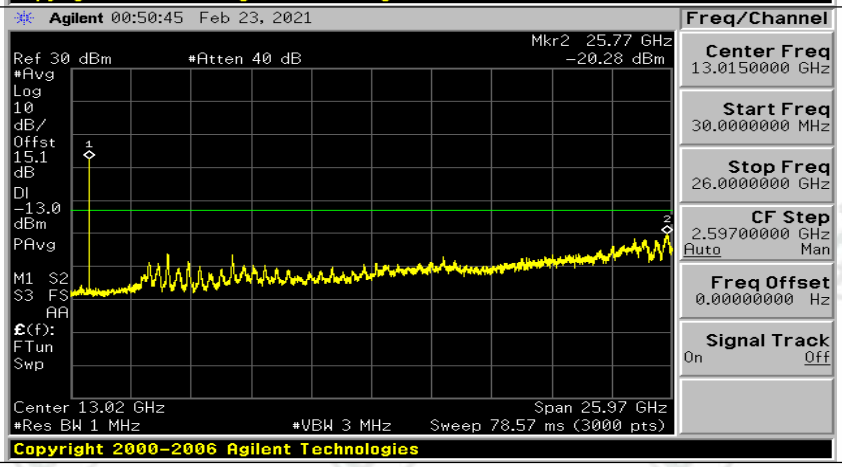


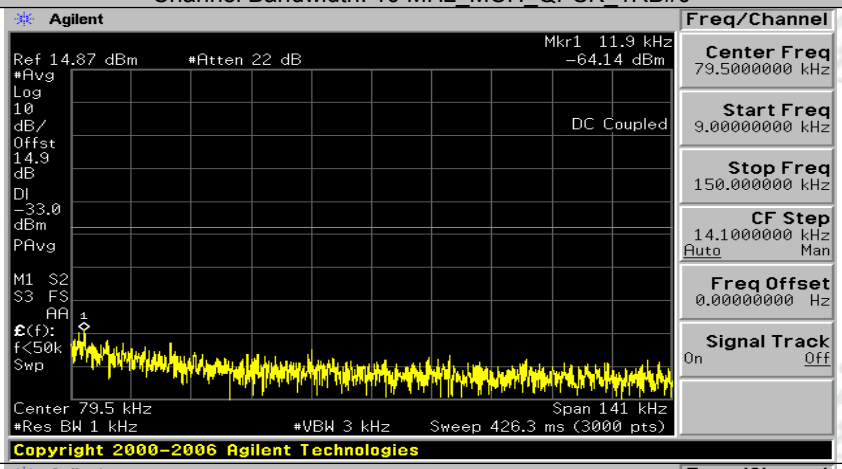
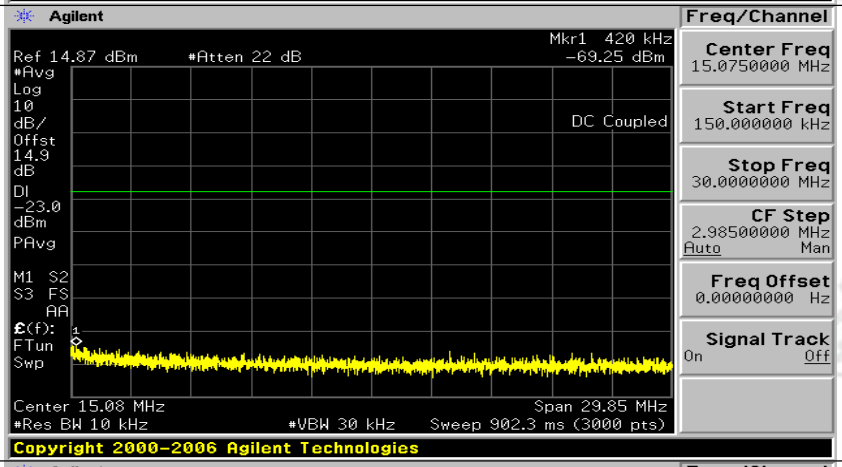
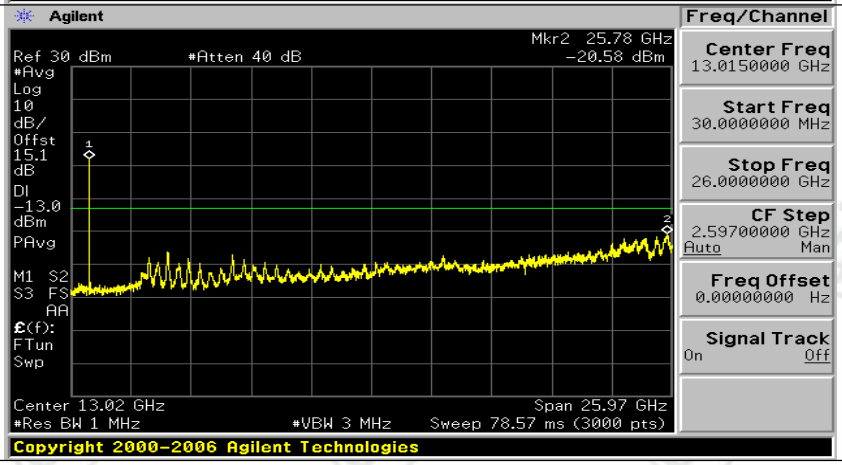


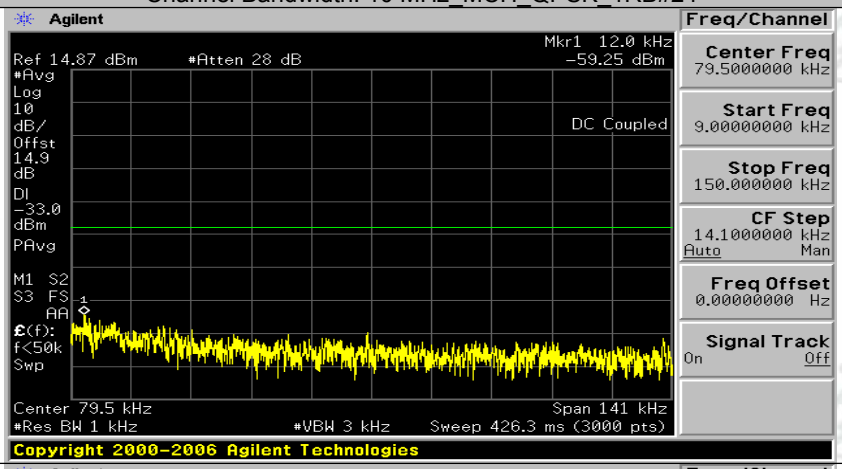
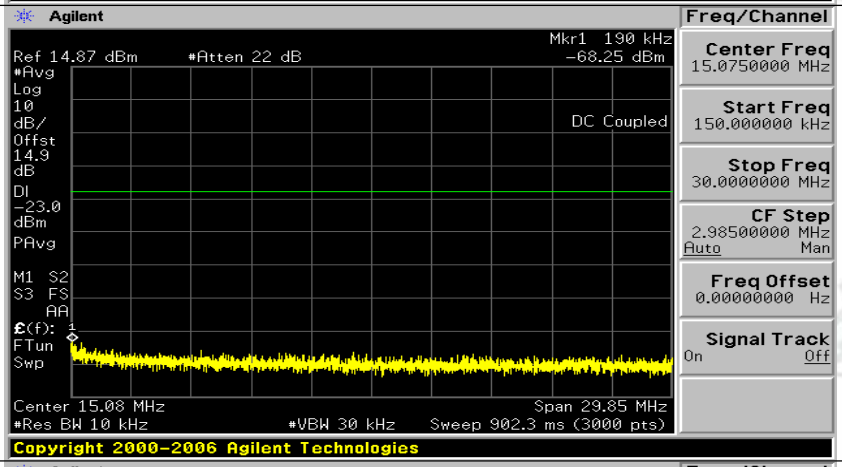
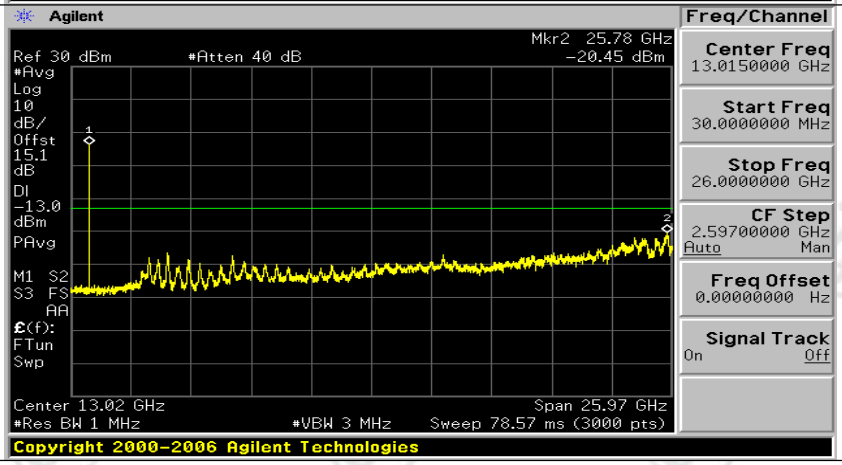
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

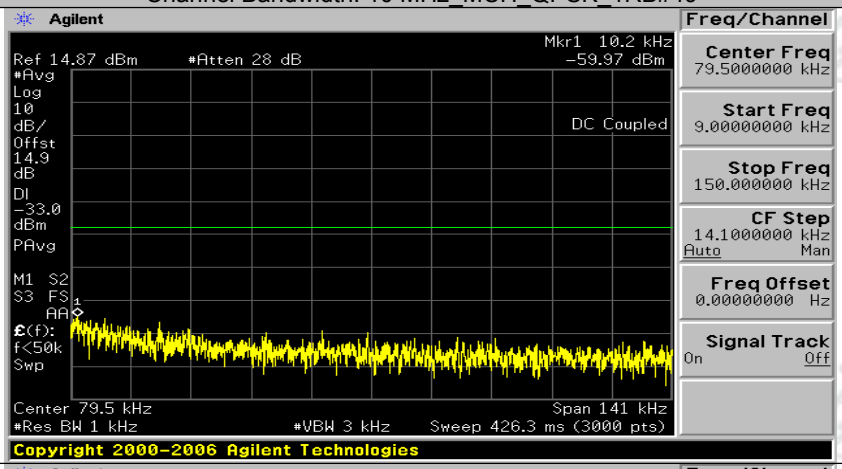
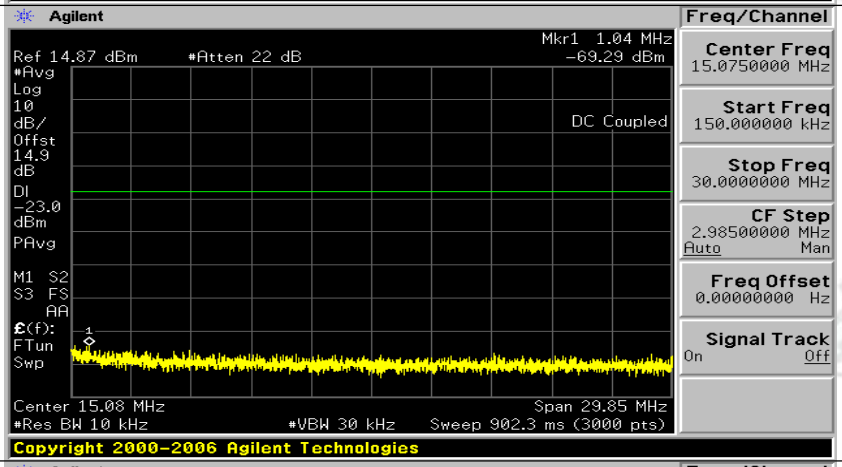
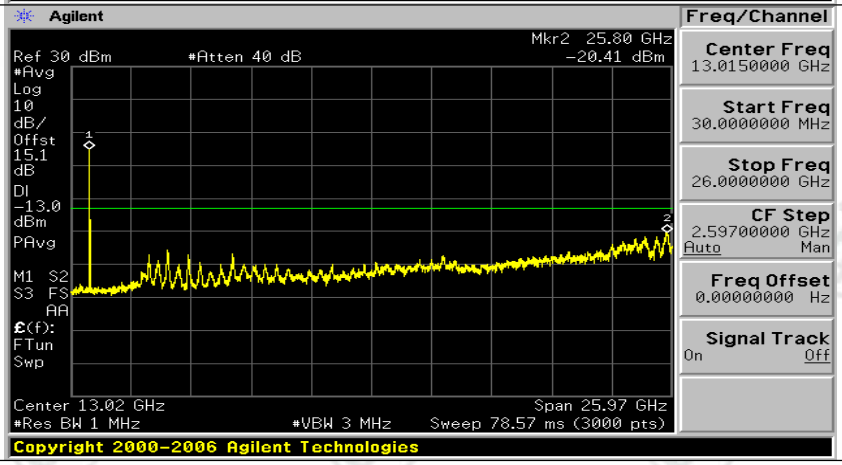


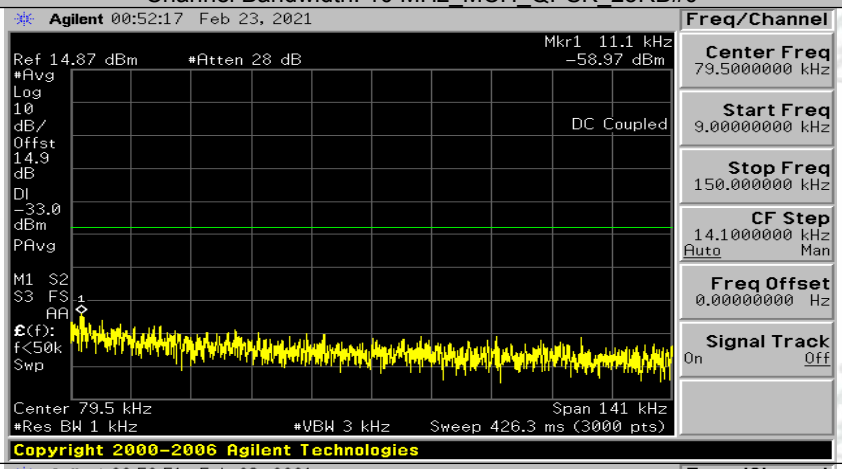
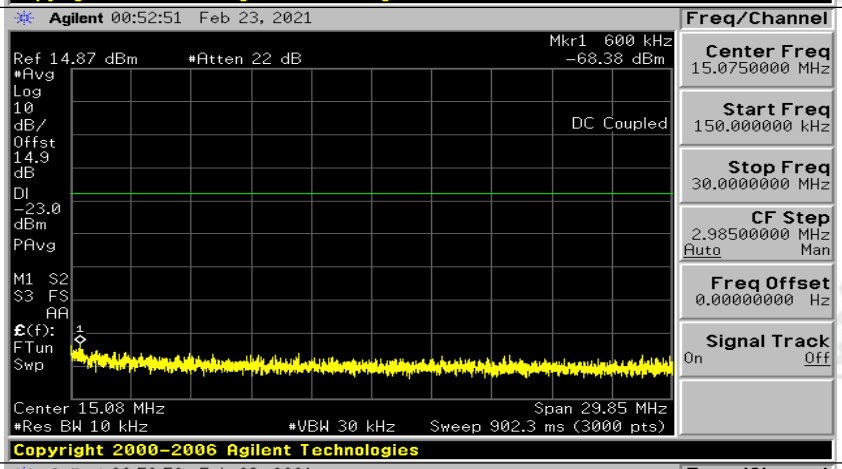
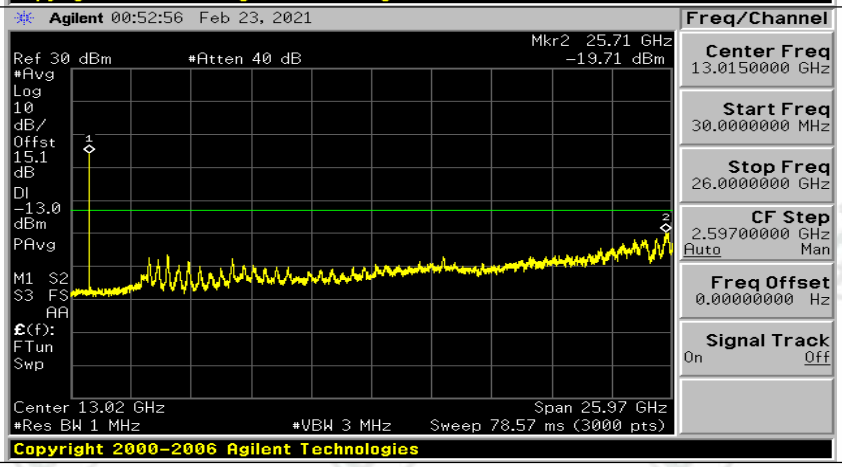


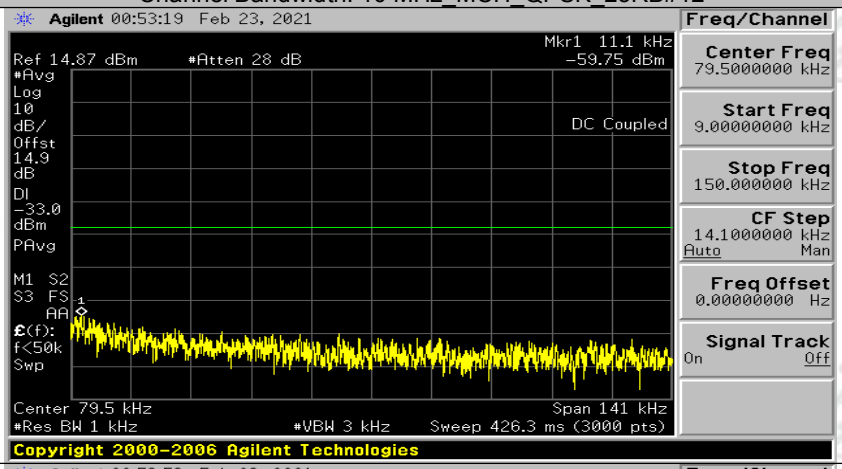
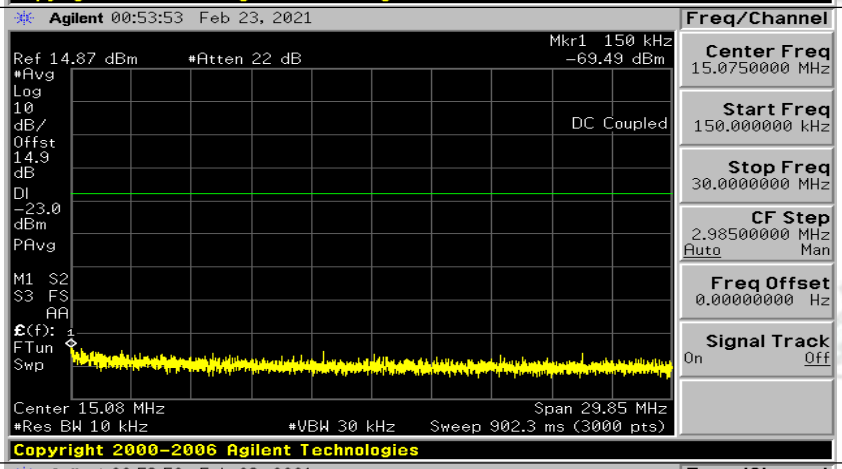
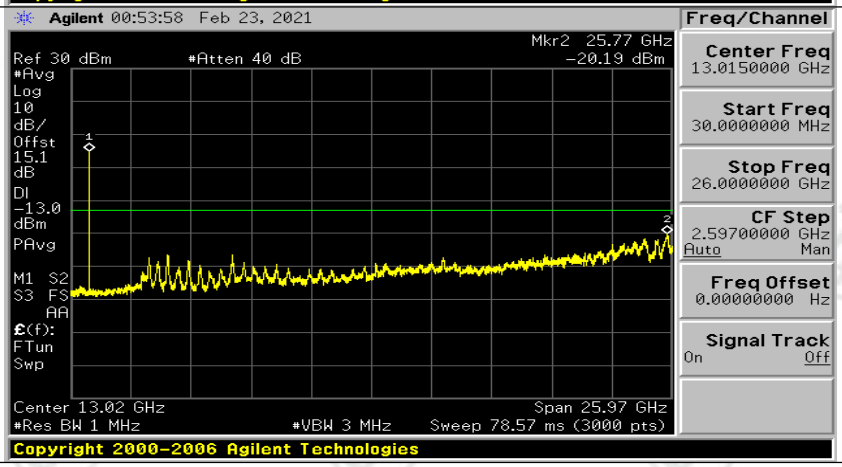


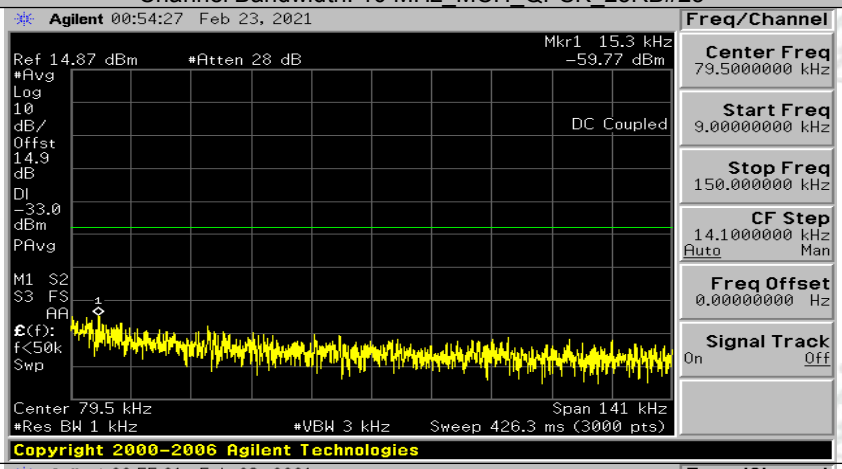
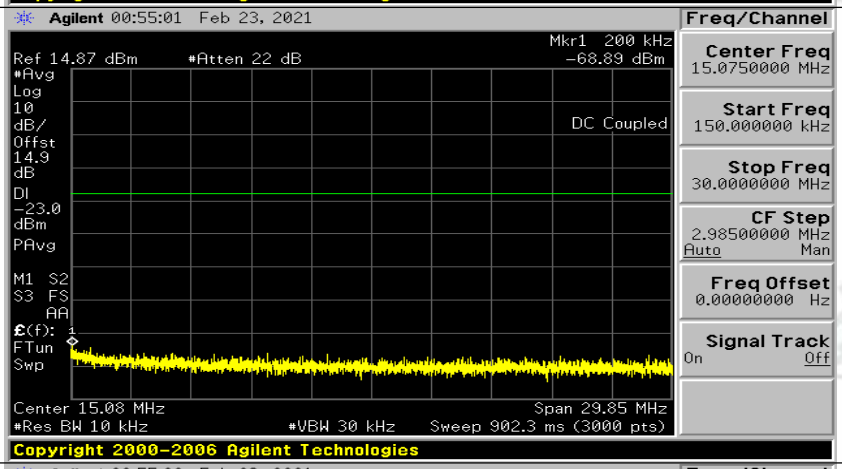
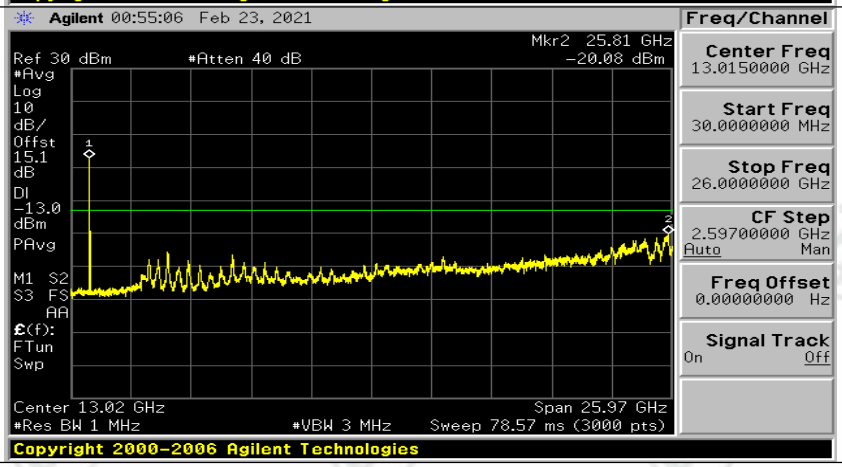
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0




Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24




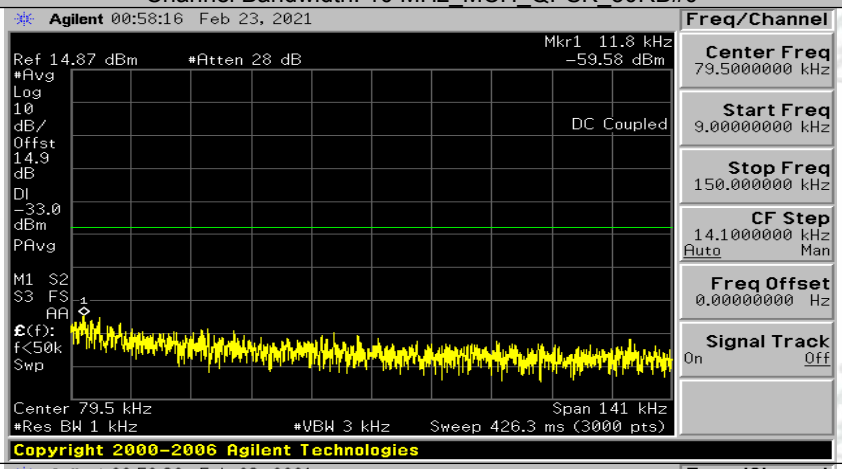
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49




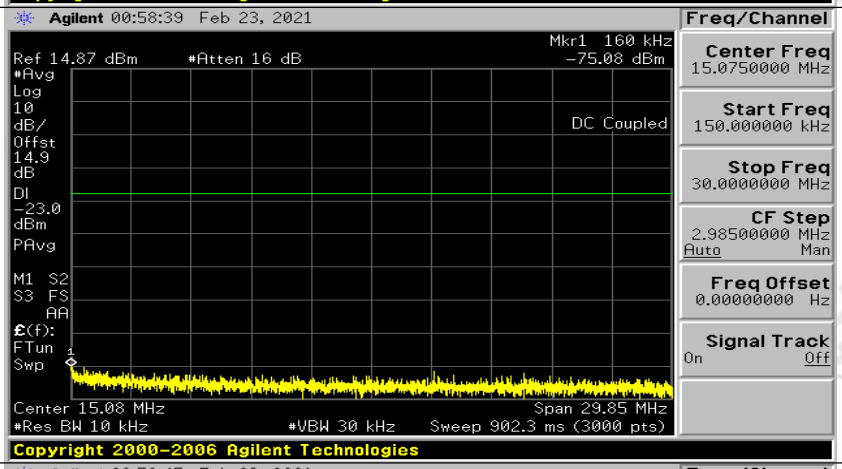
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0




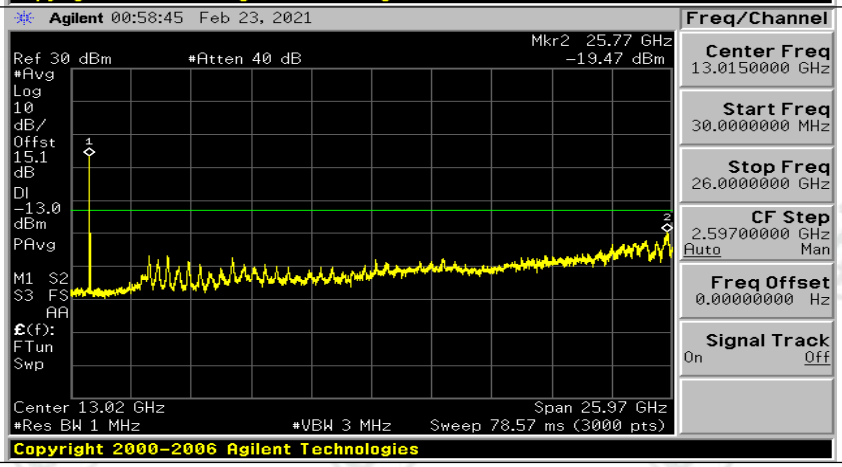
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12




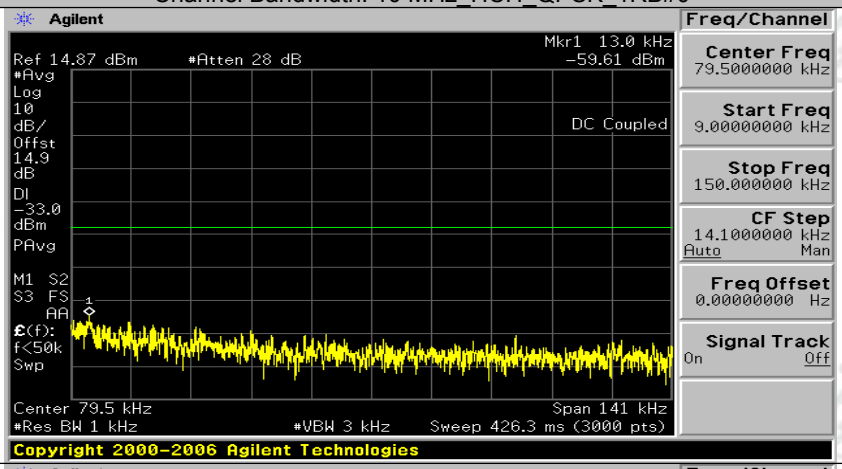
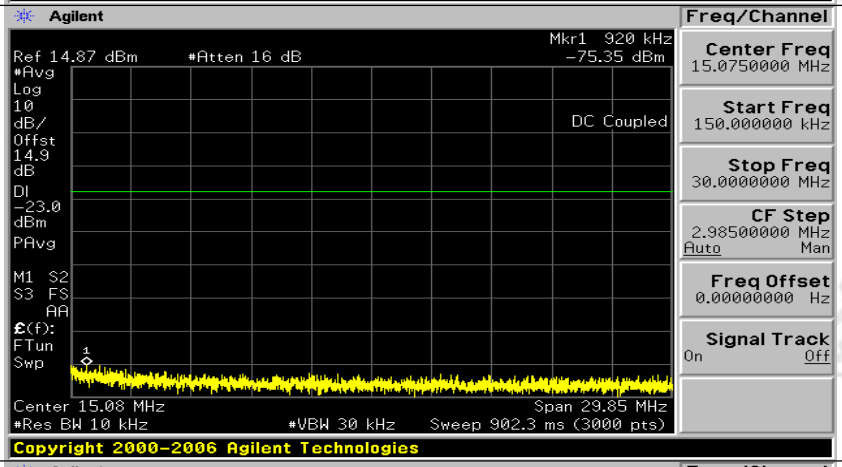
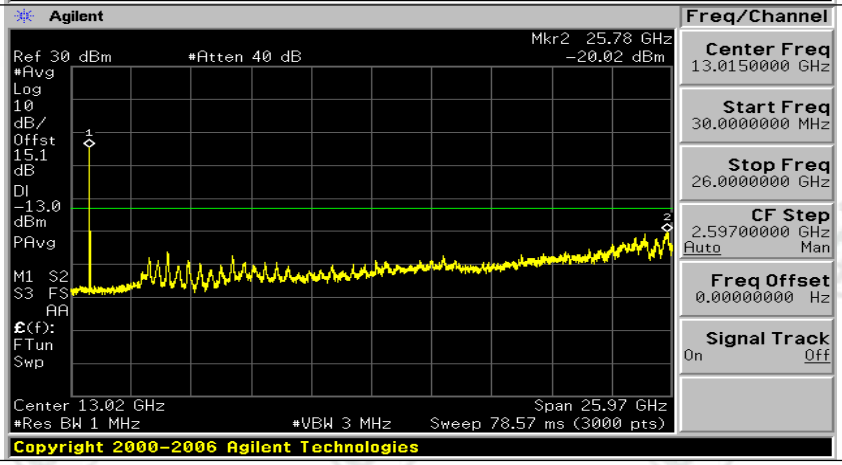
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25




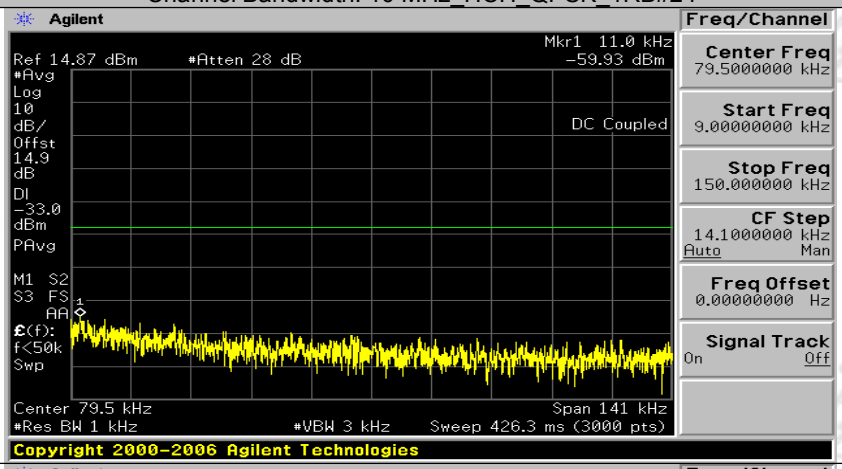
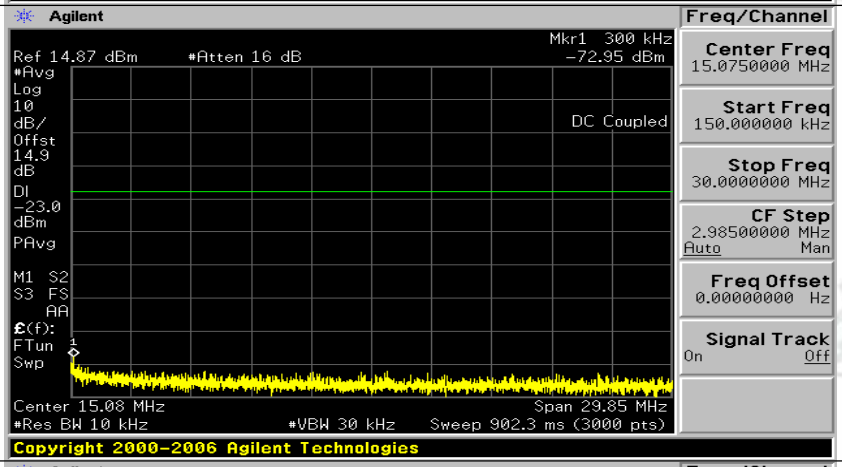
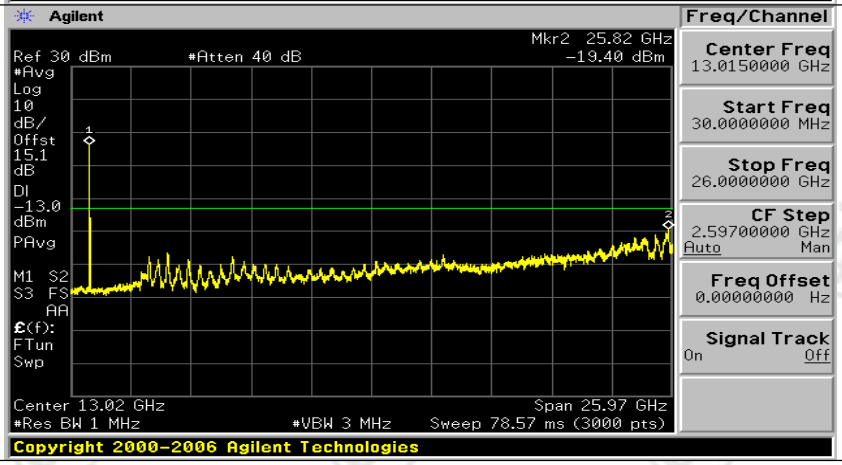
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0

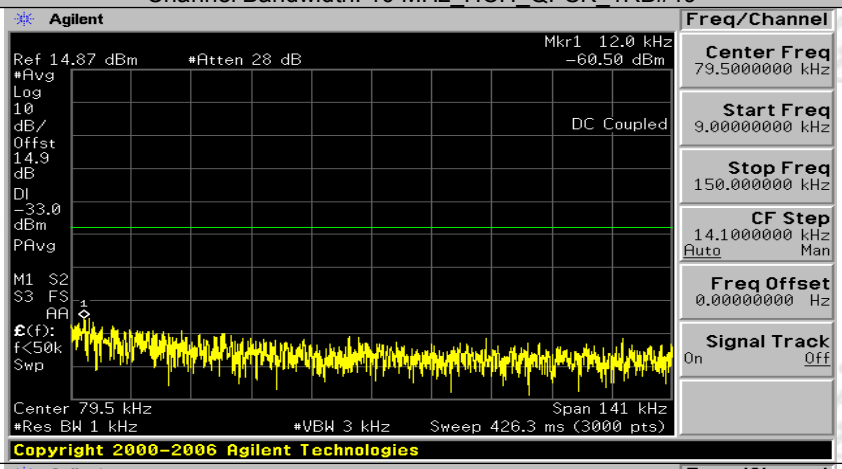
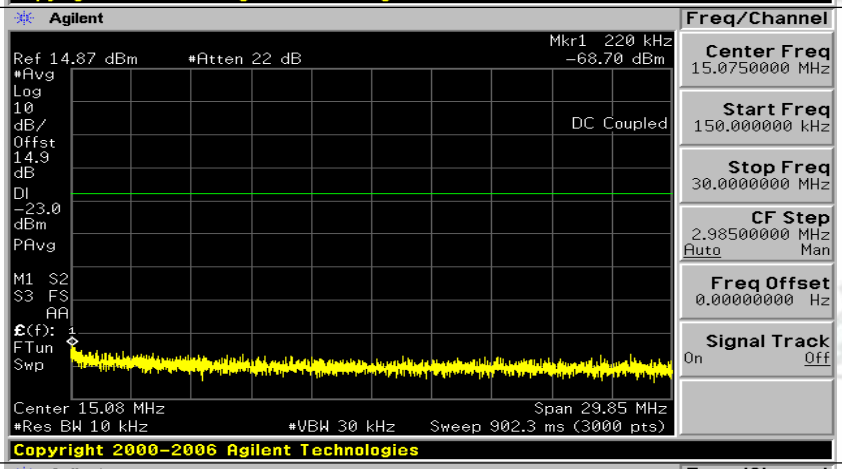
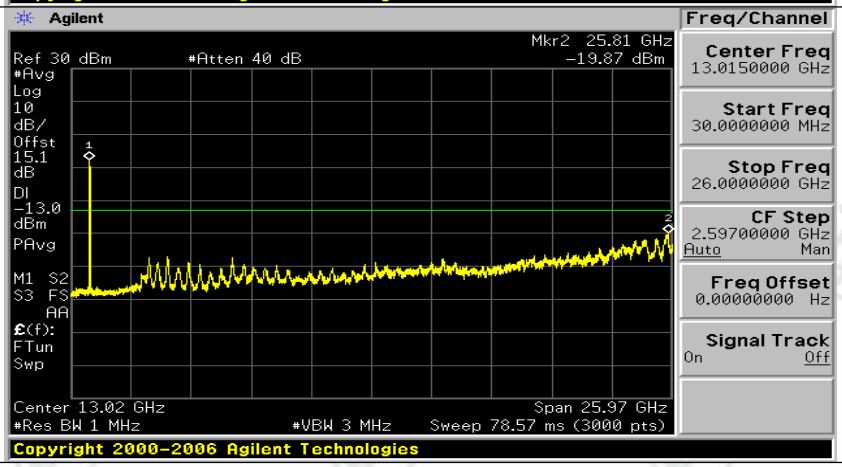




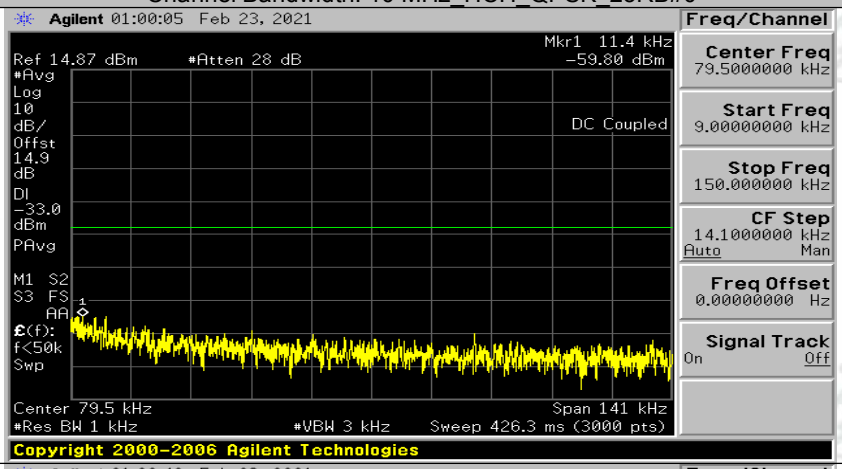


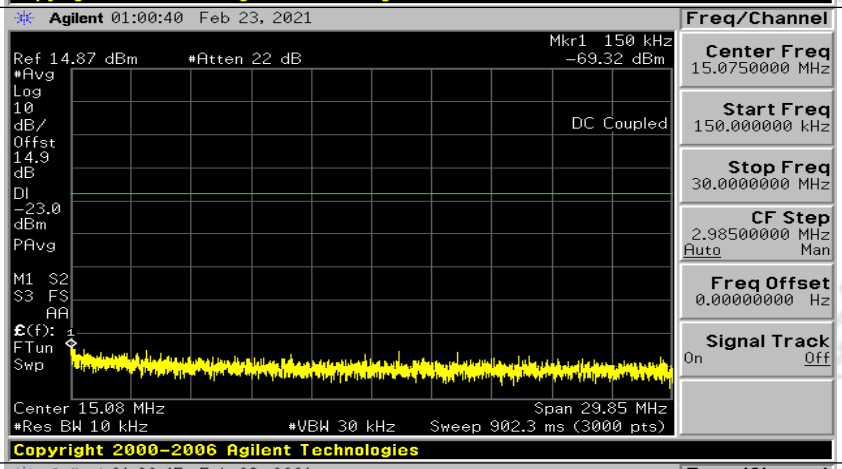
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0




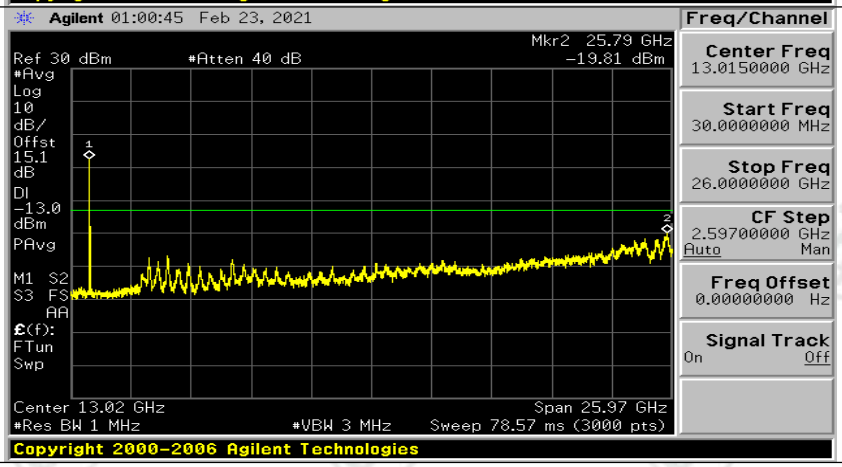
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24




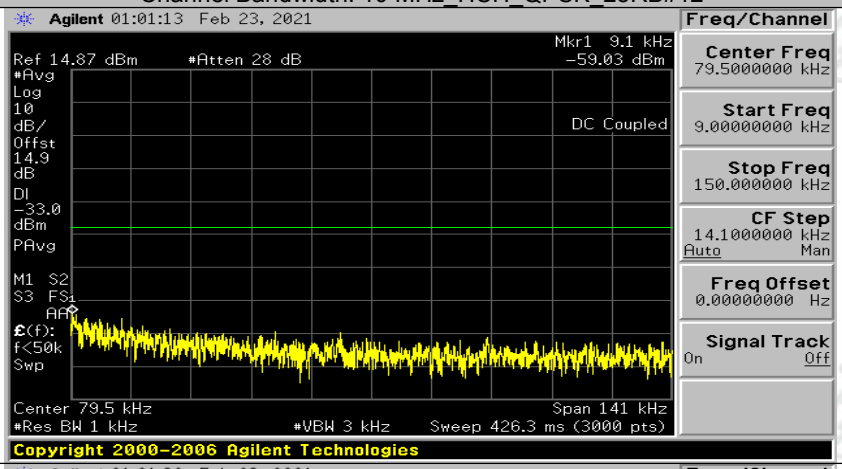
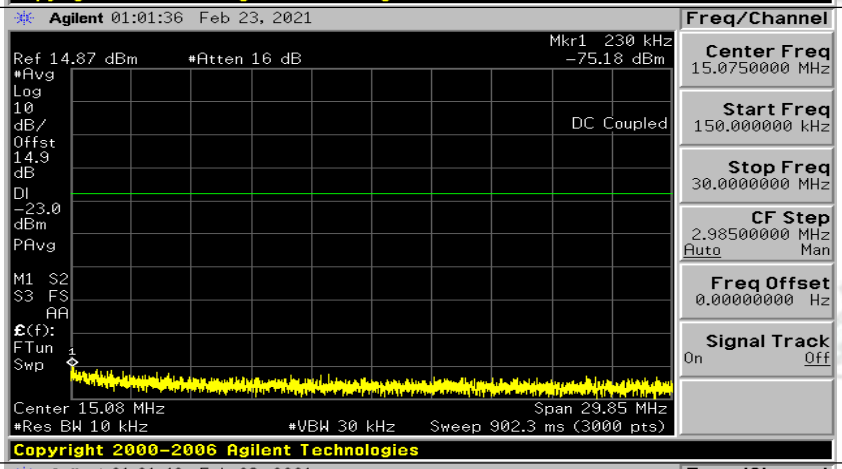
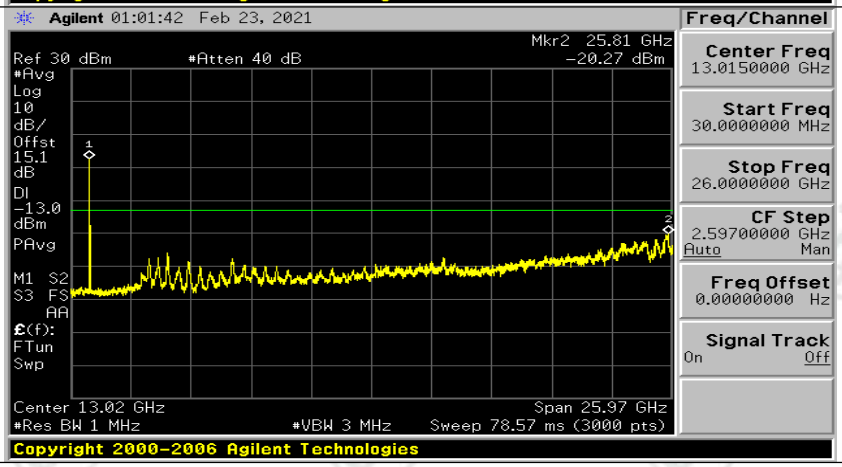
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49




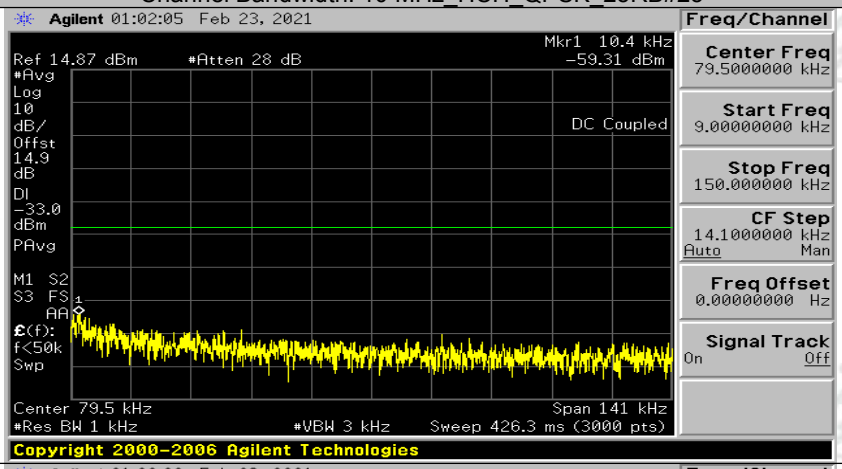
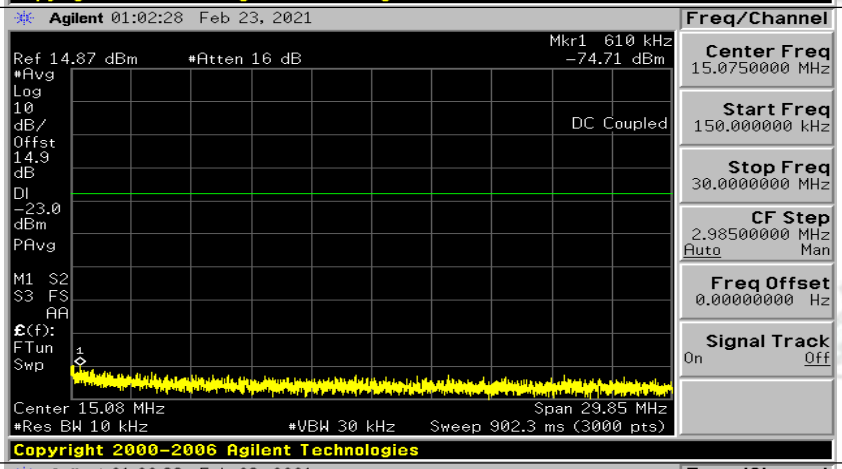
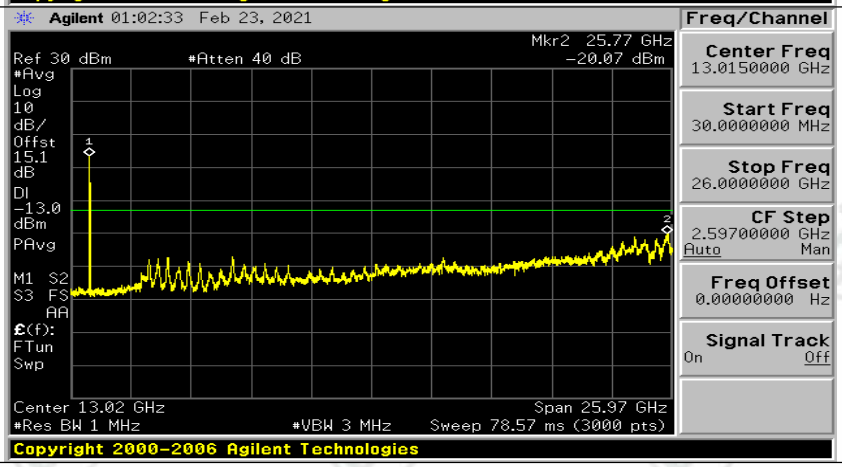
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

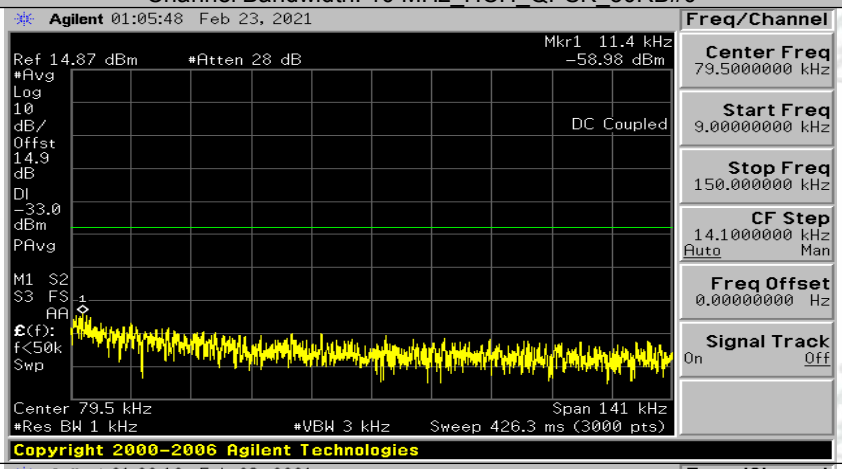
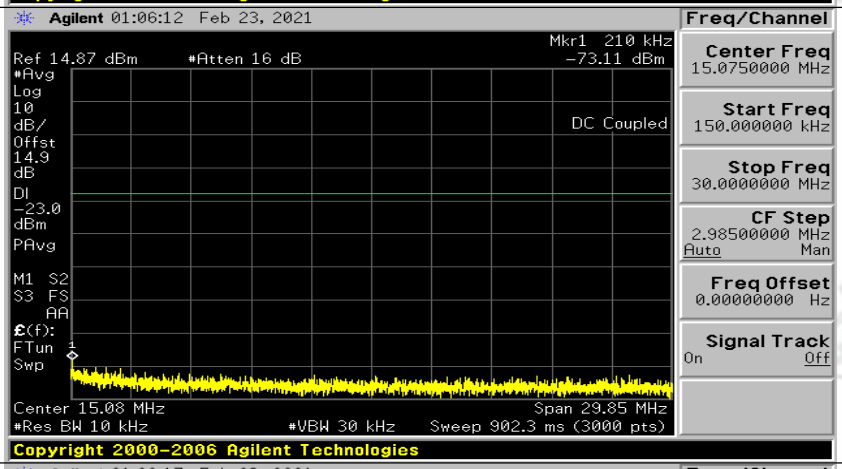
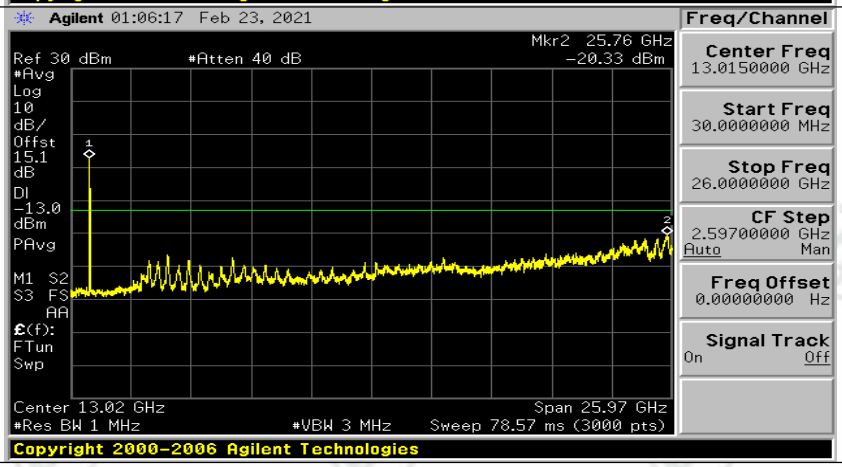


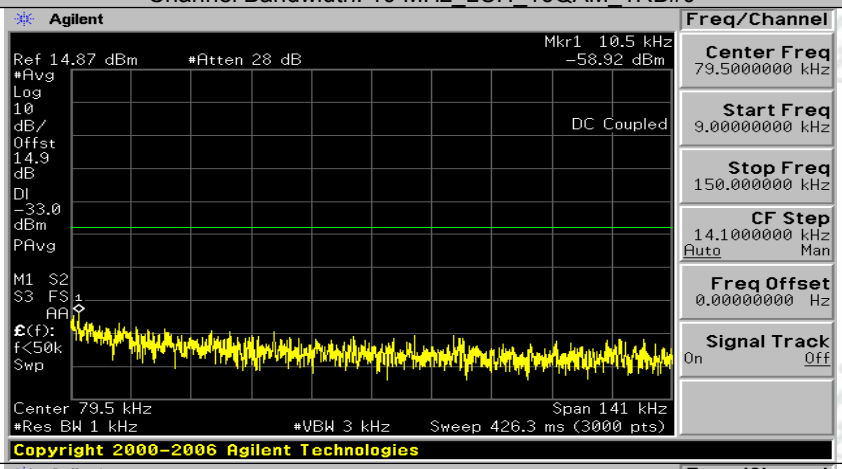
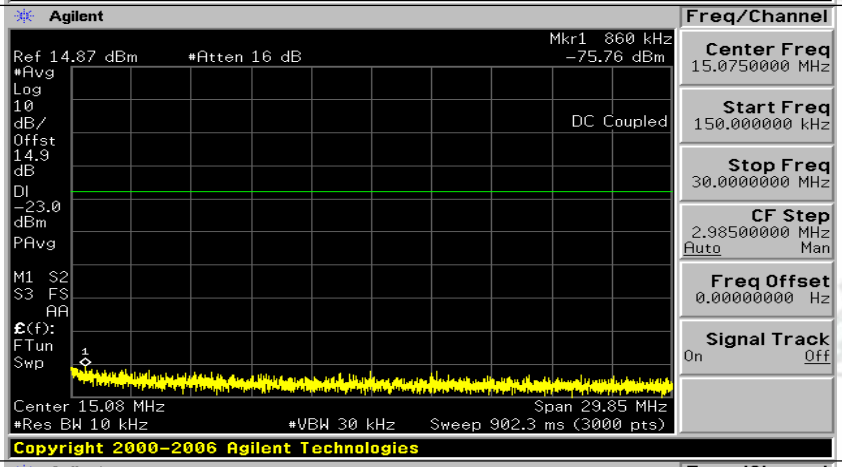
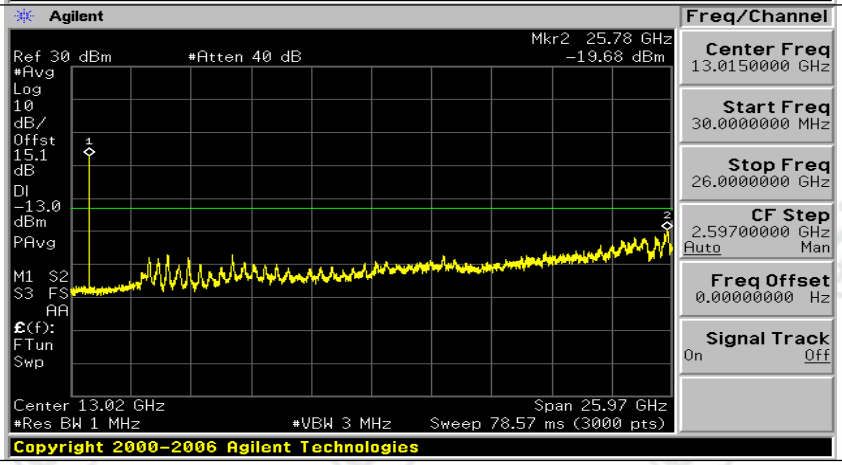


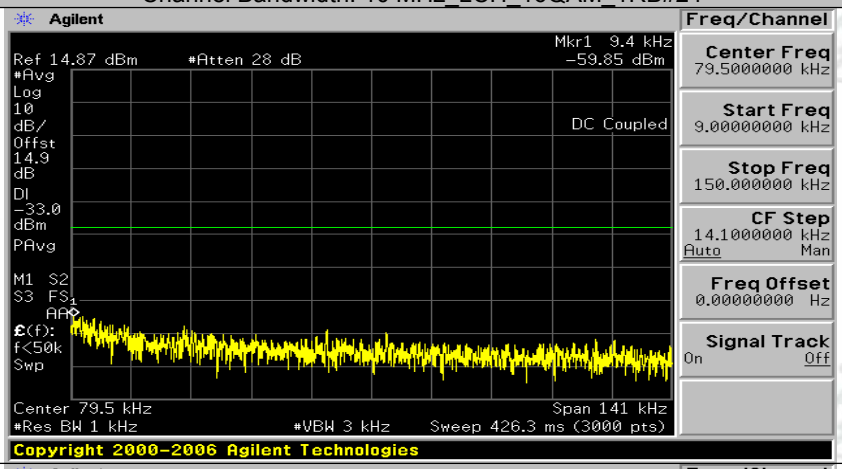
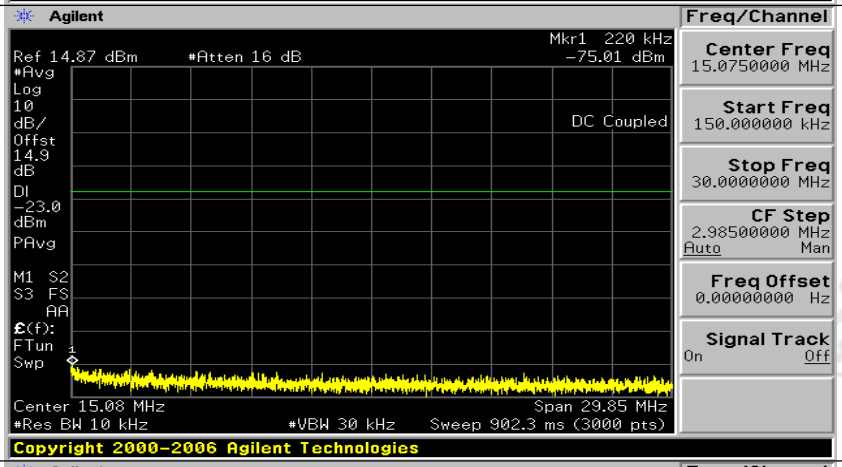
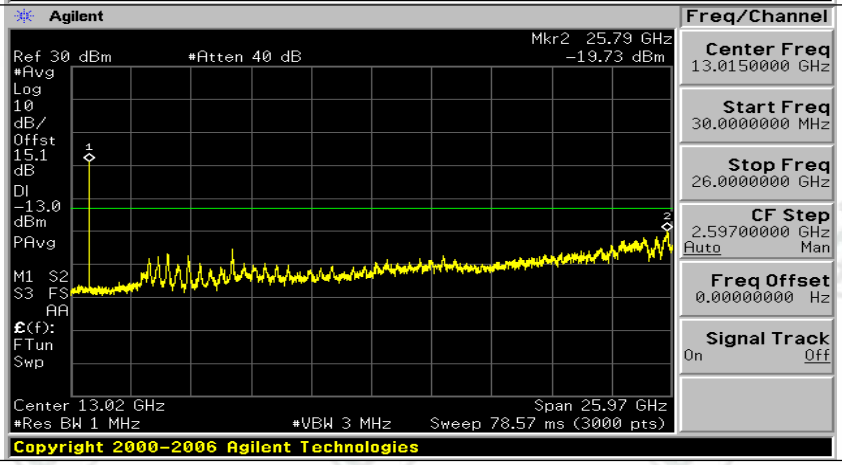


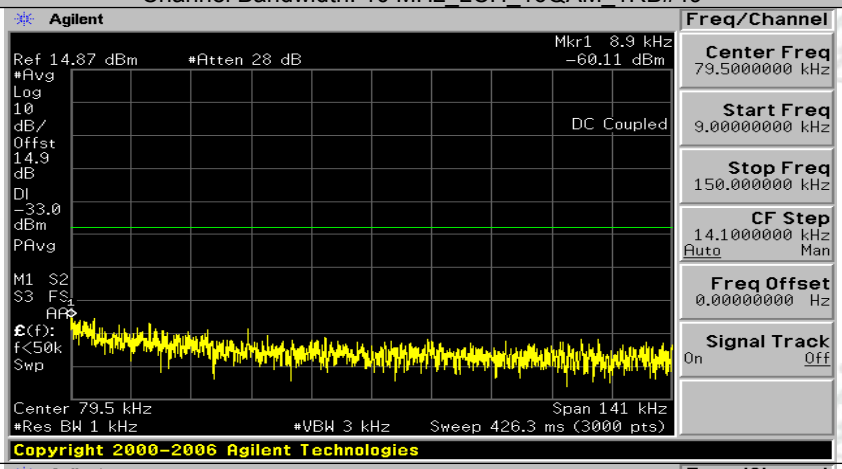
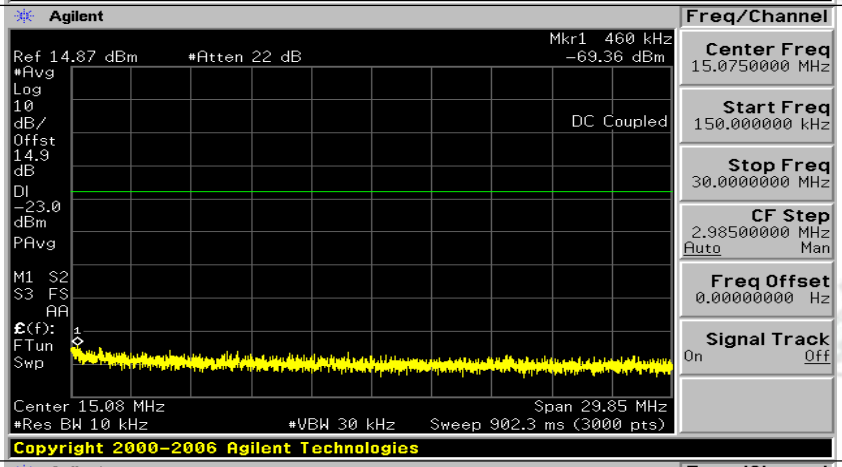
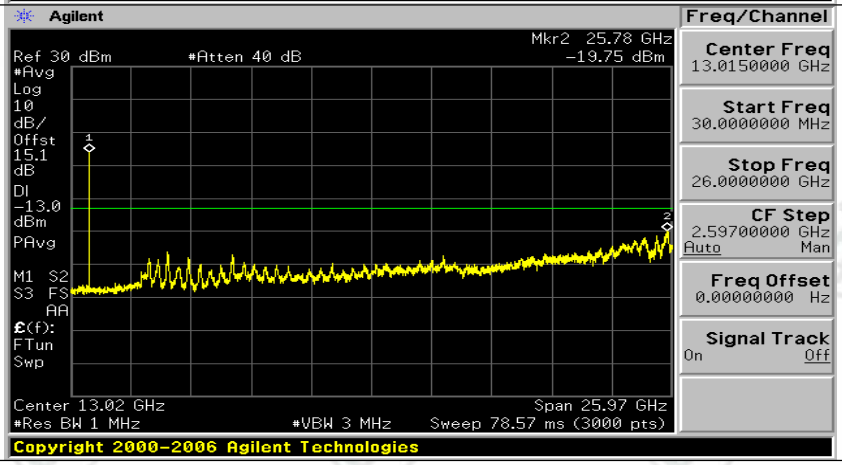
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12




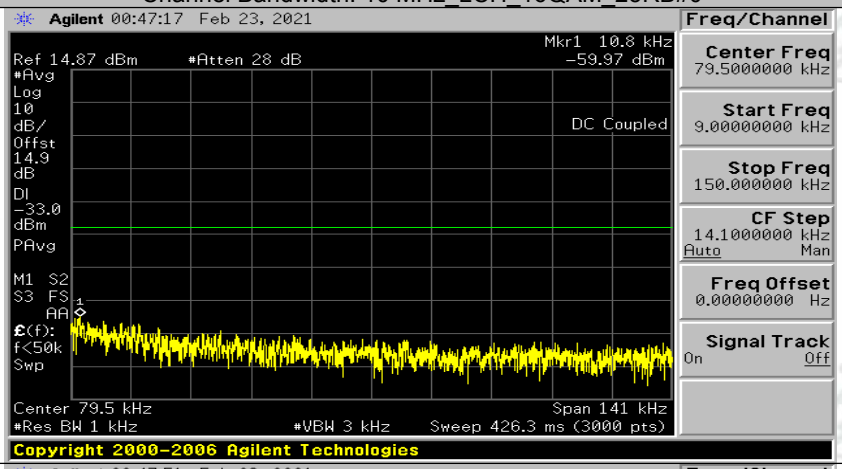
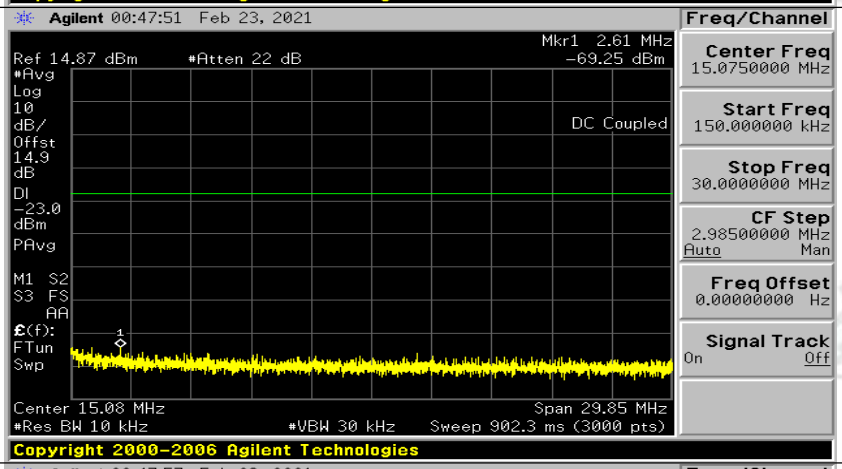
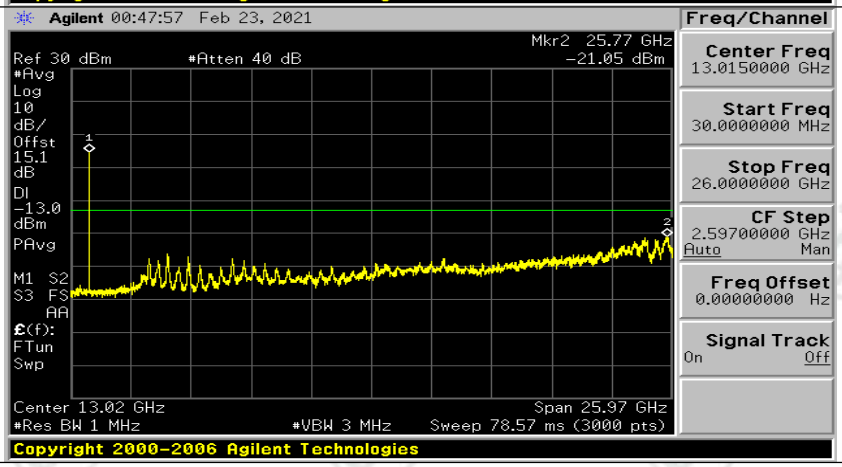
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25




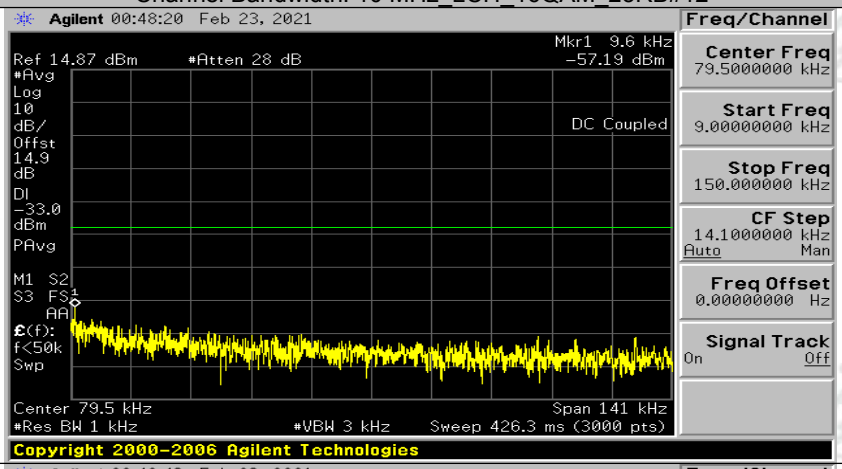
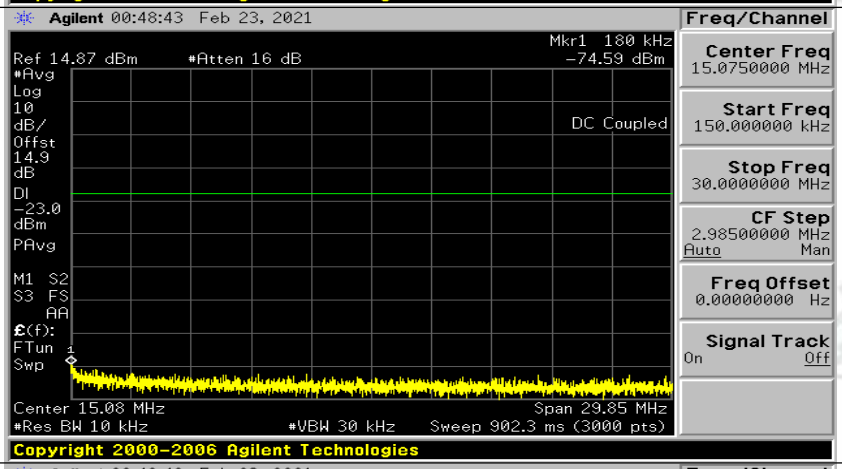
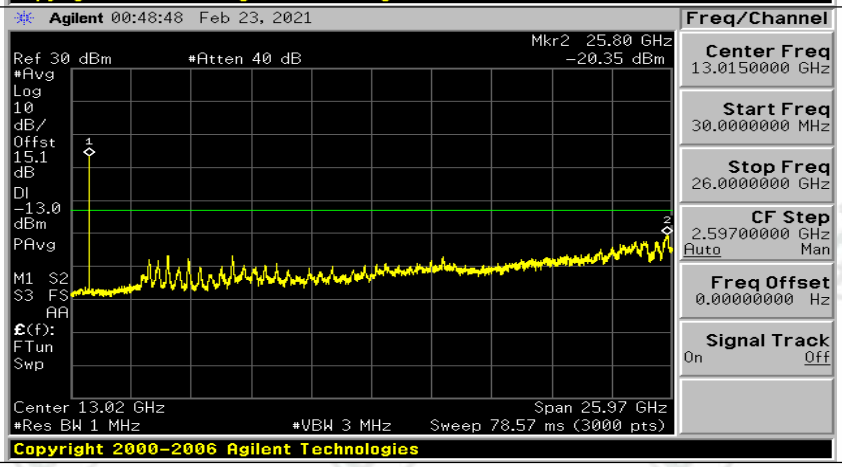
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0




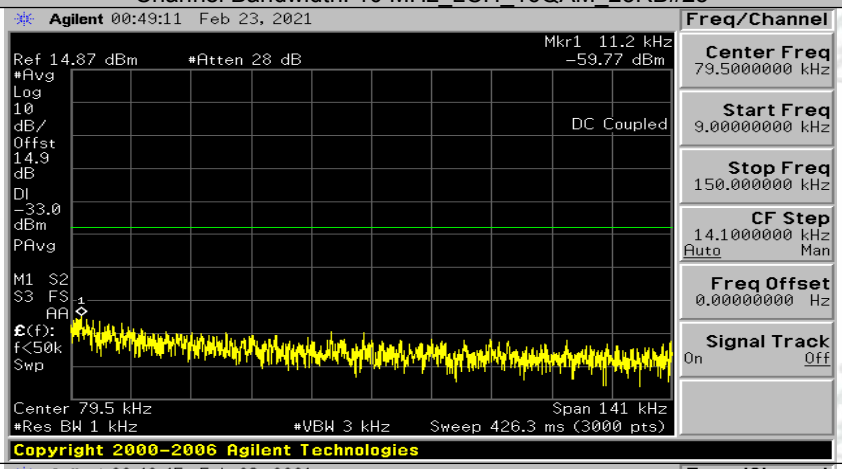
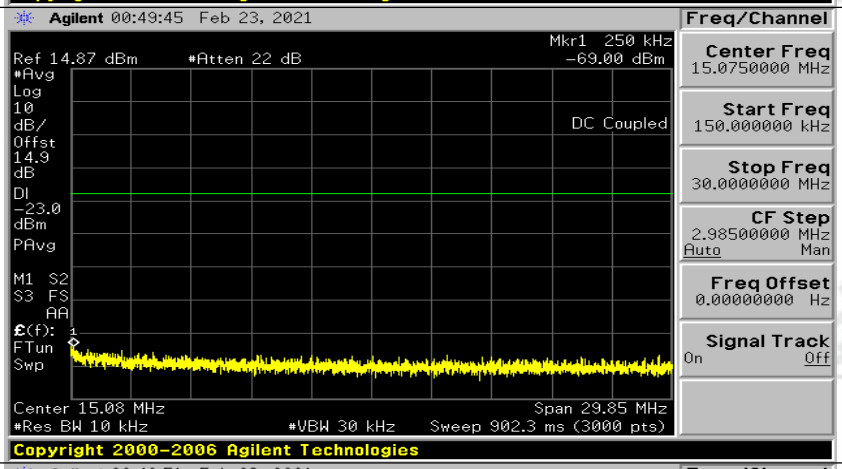
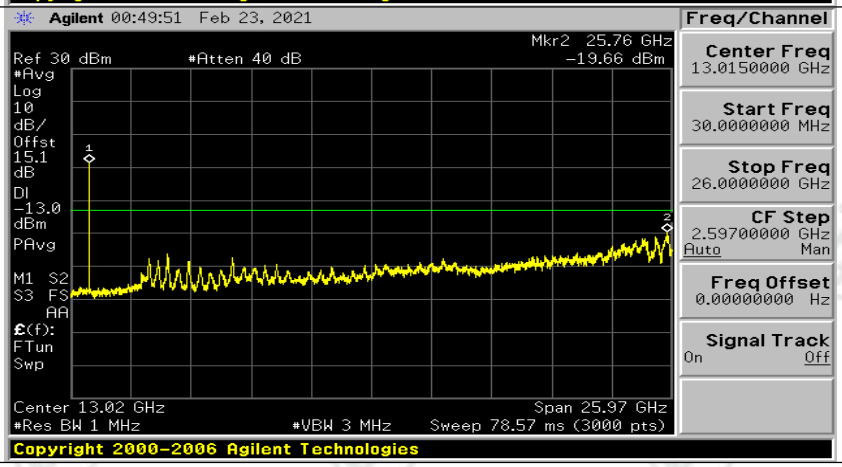
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0




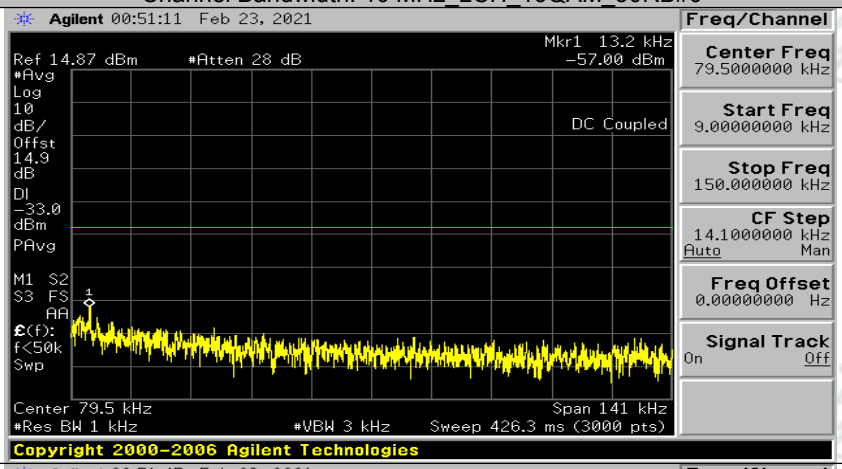
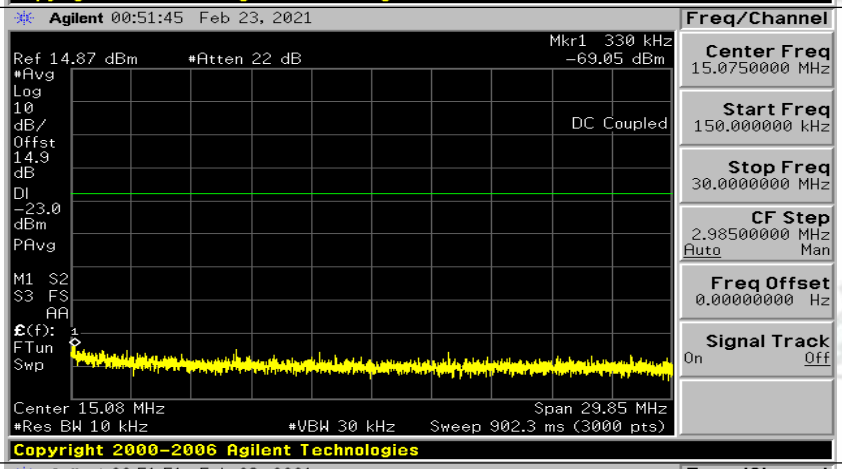
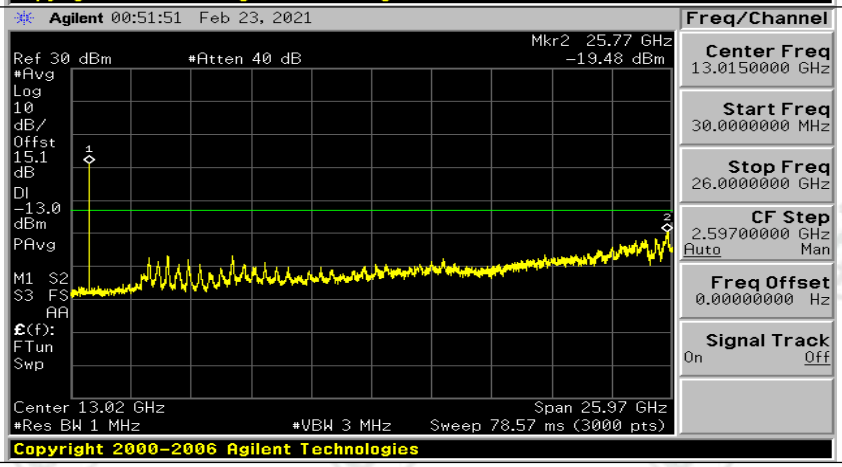
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24




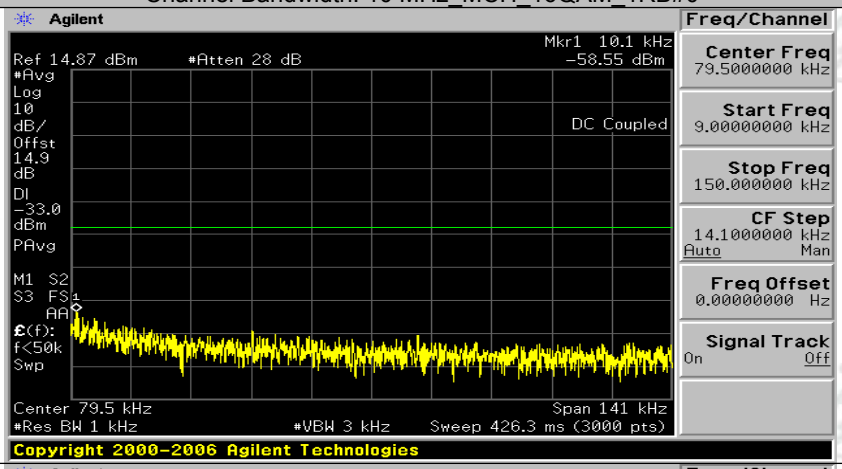
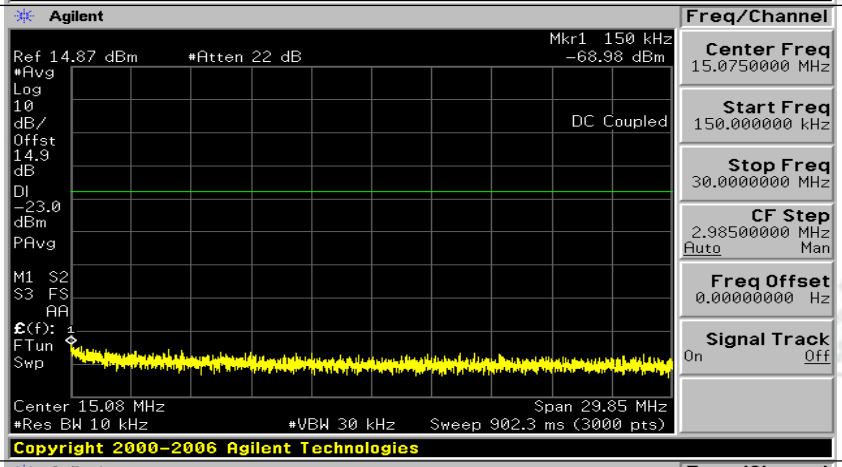
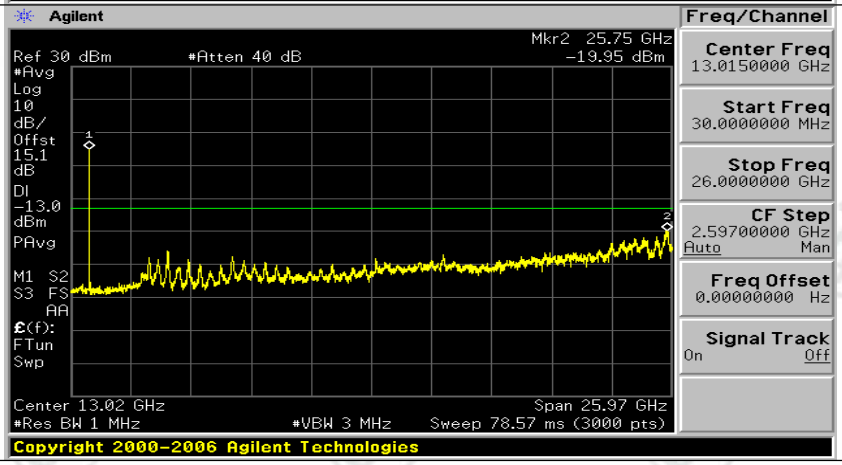
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49




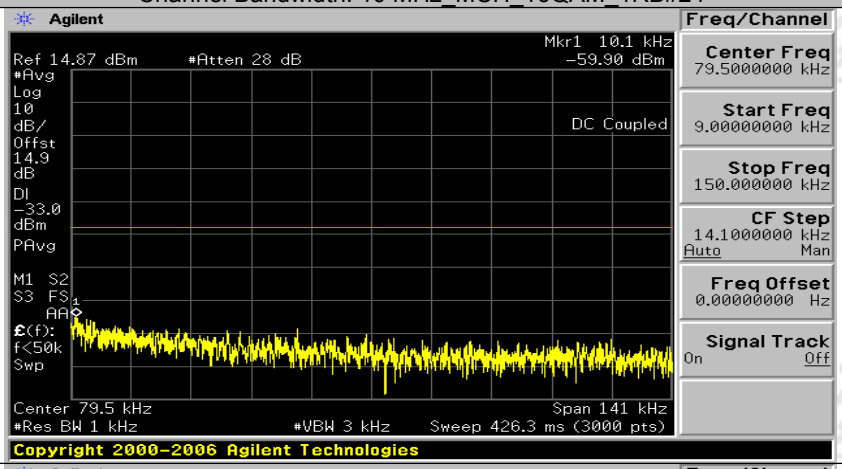
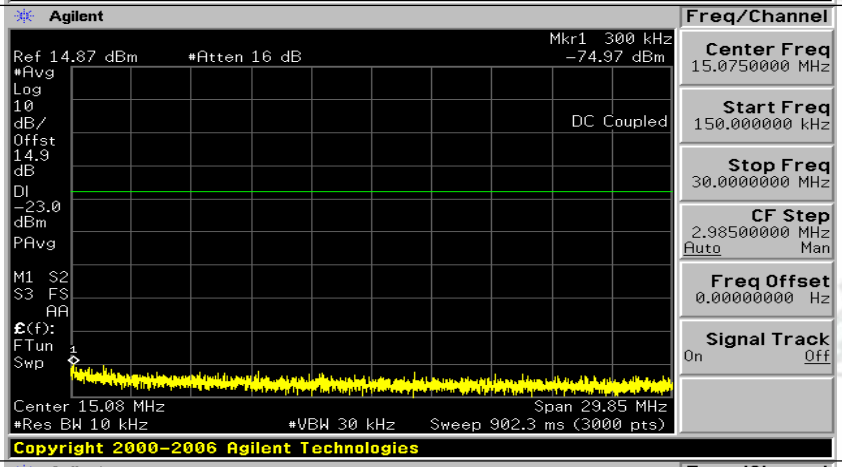
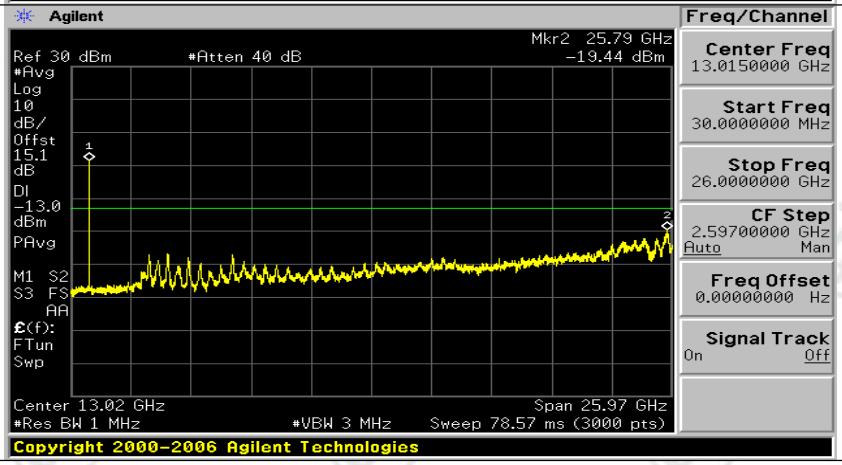
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0




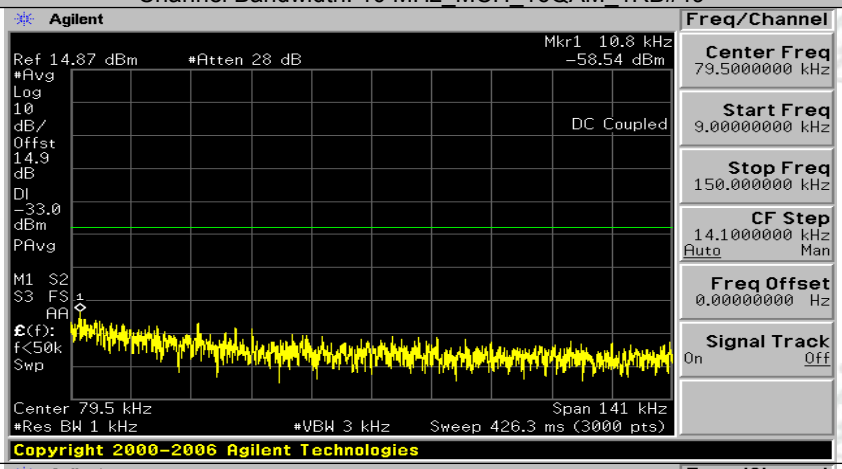
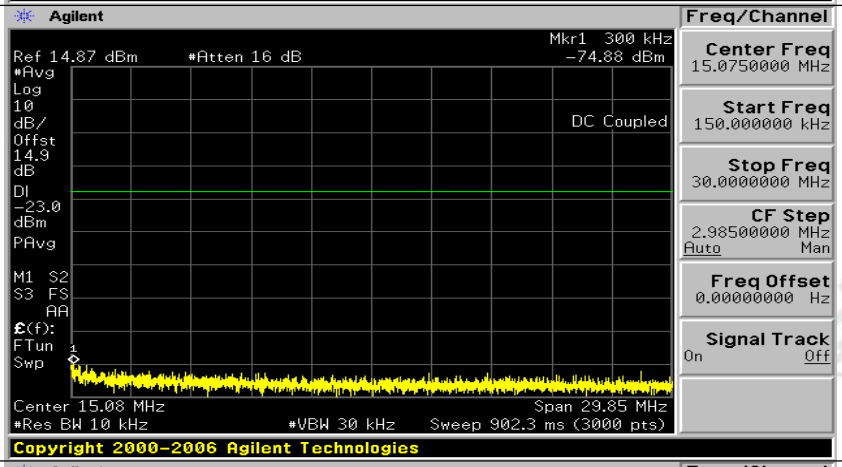
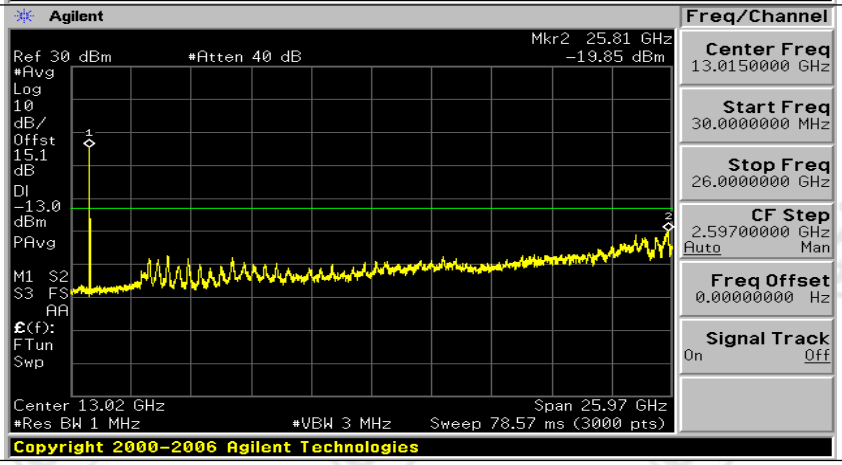
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12




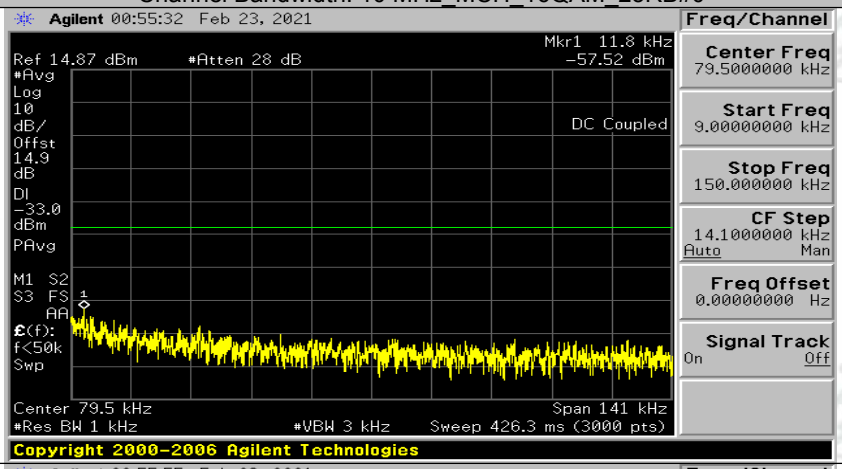
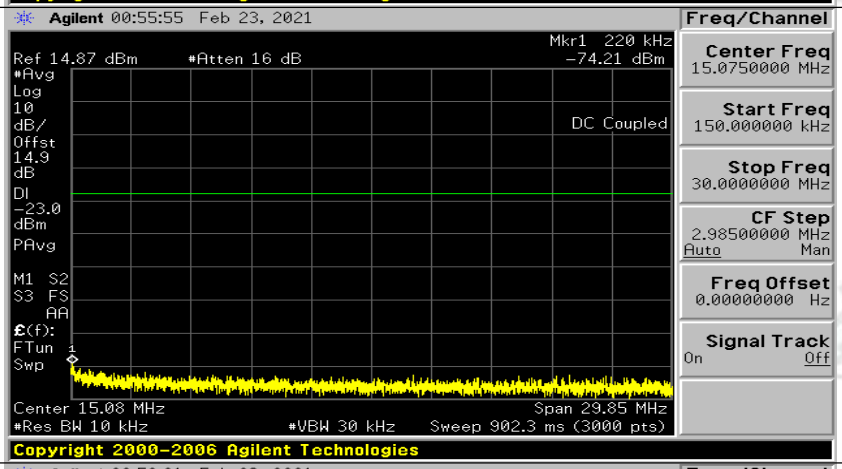
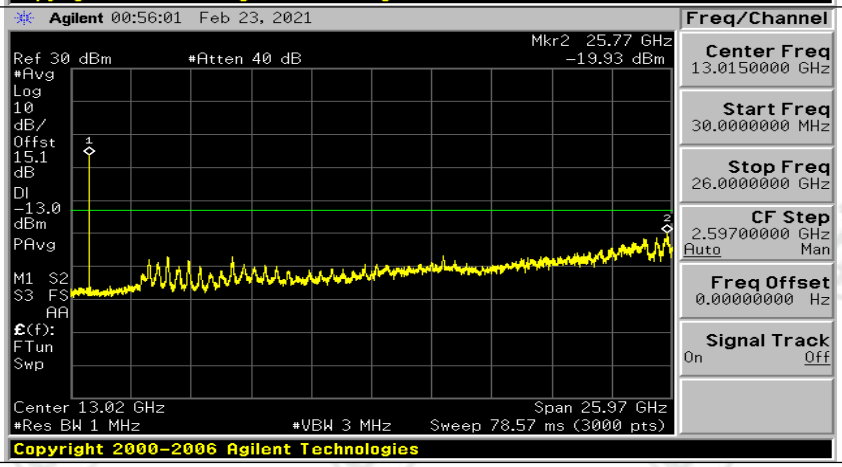
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25




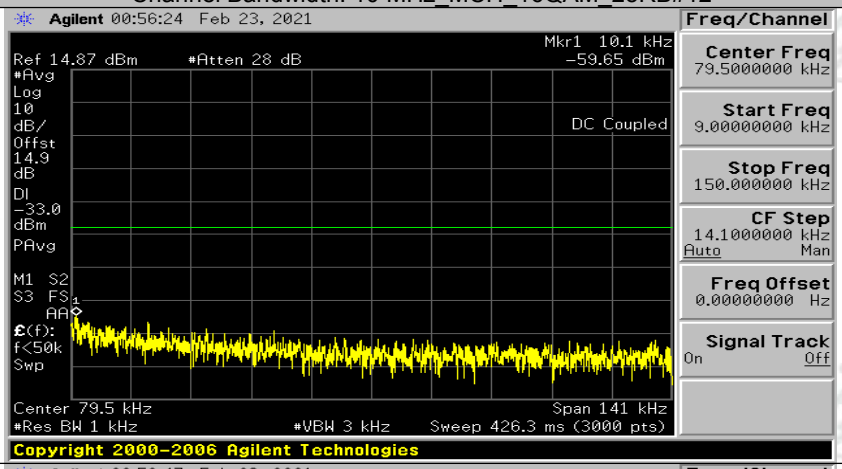
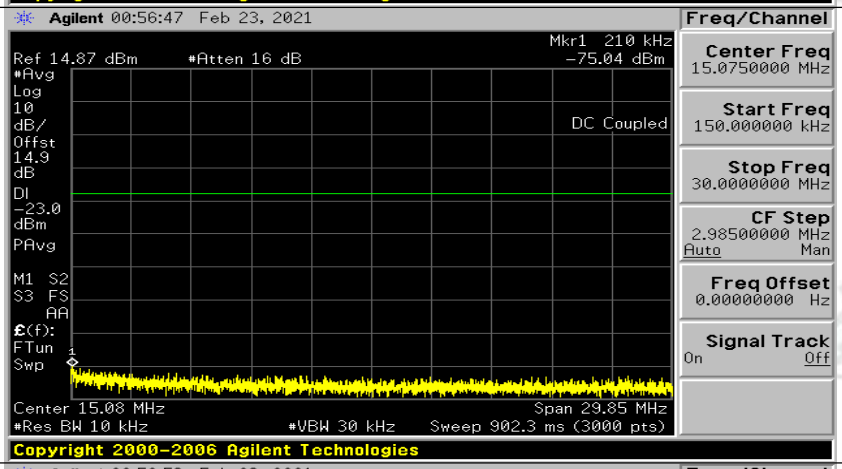
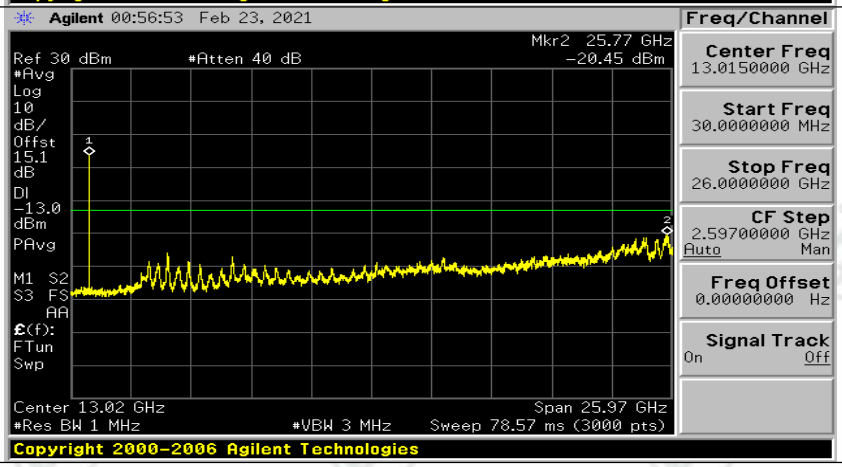
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0




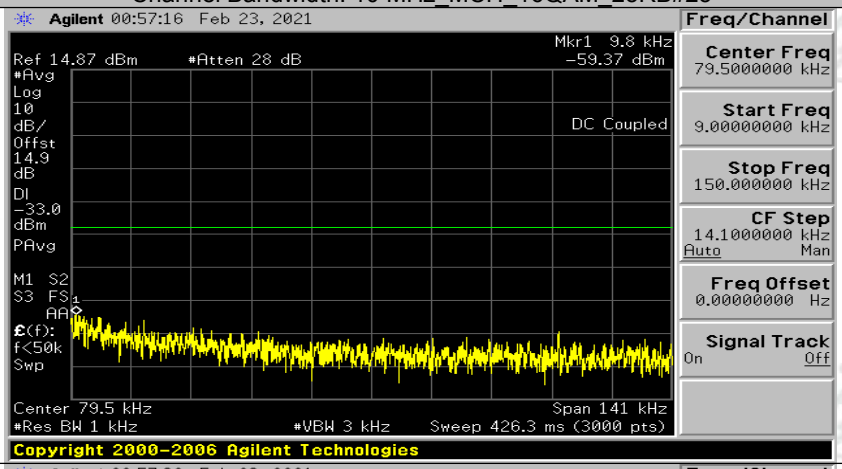
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24




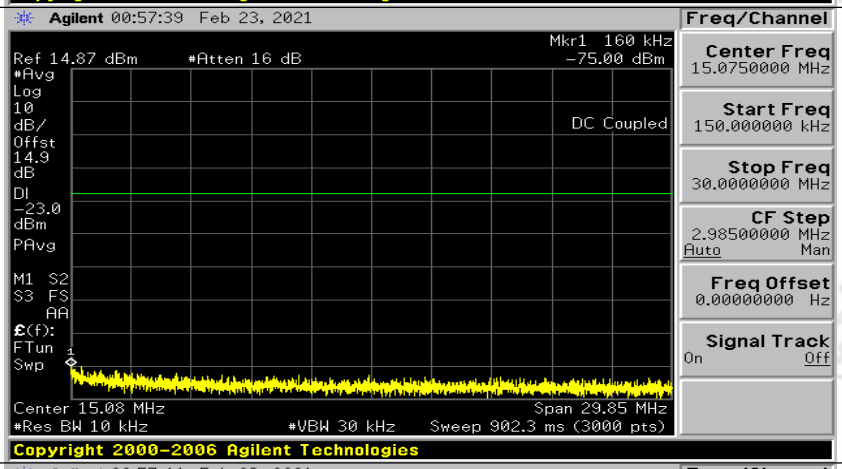
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49




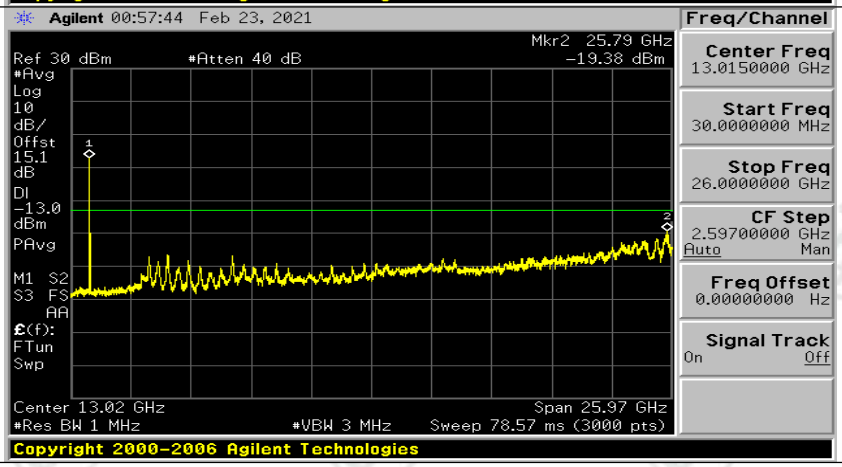
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0




Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12




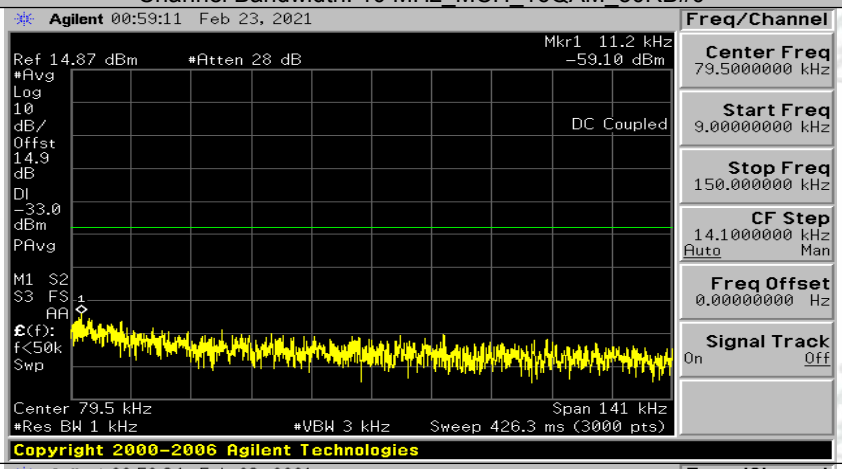
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

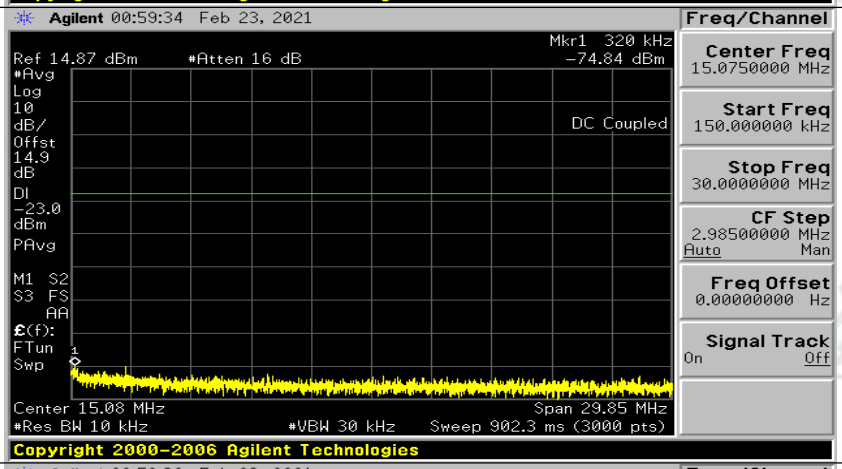


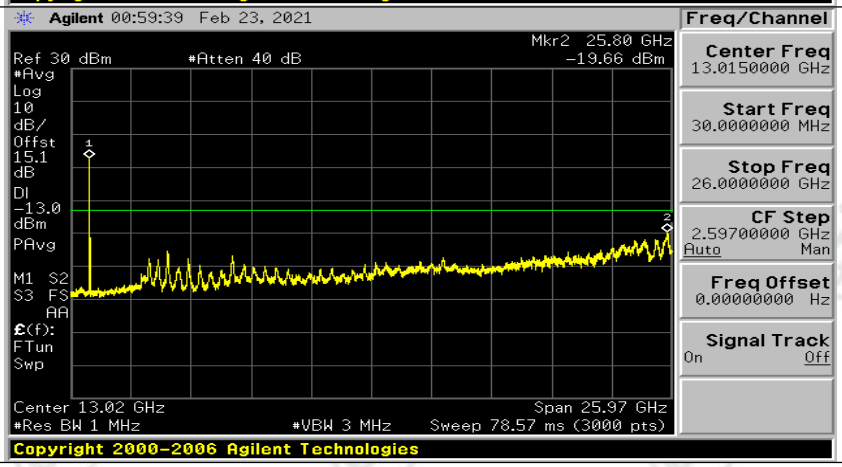


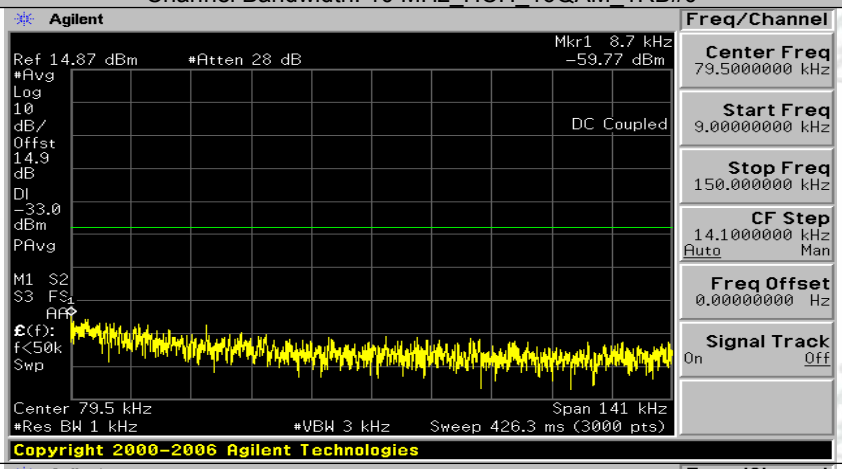
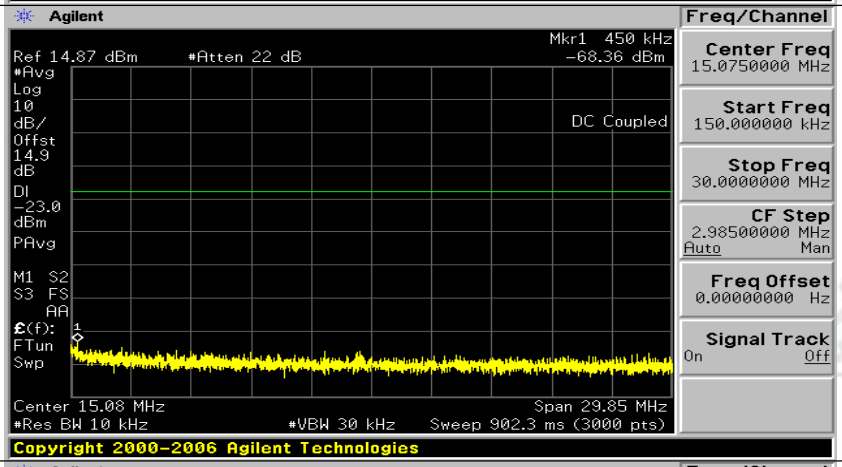
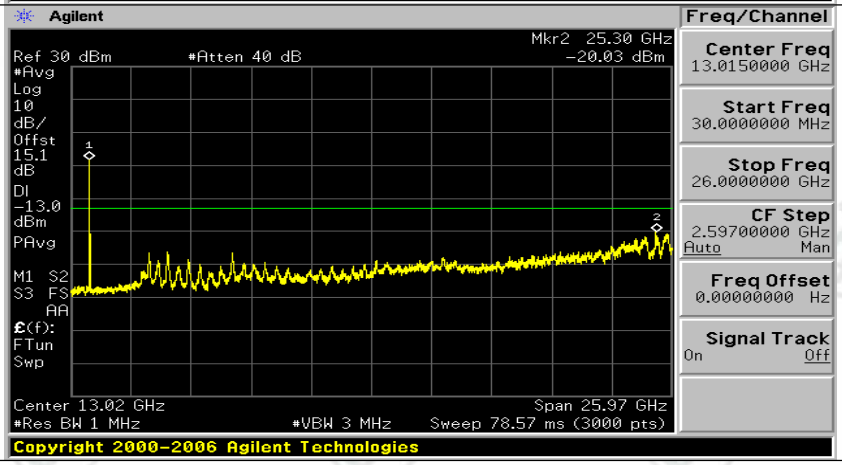


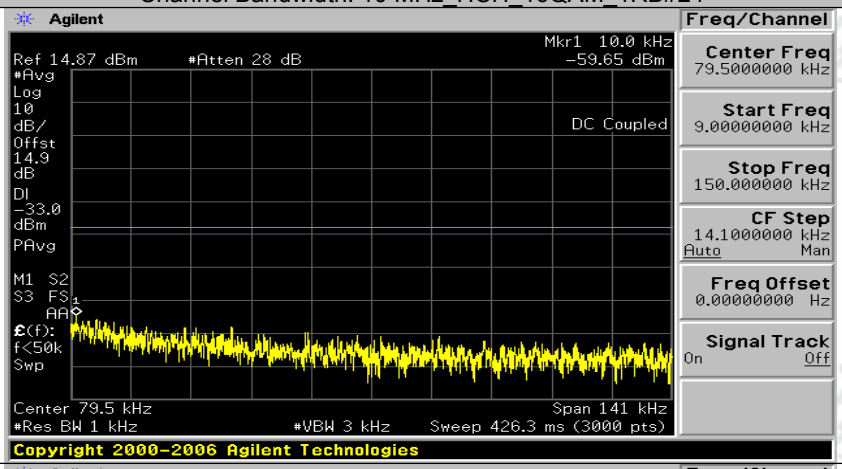
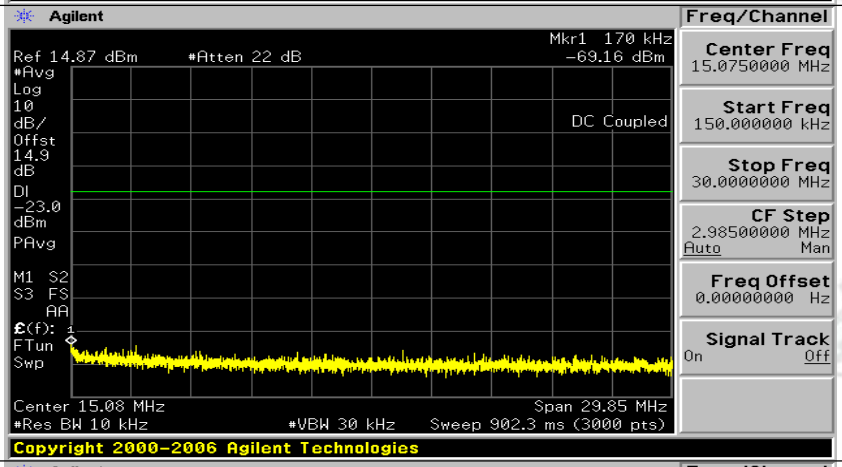
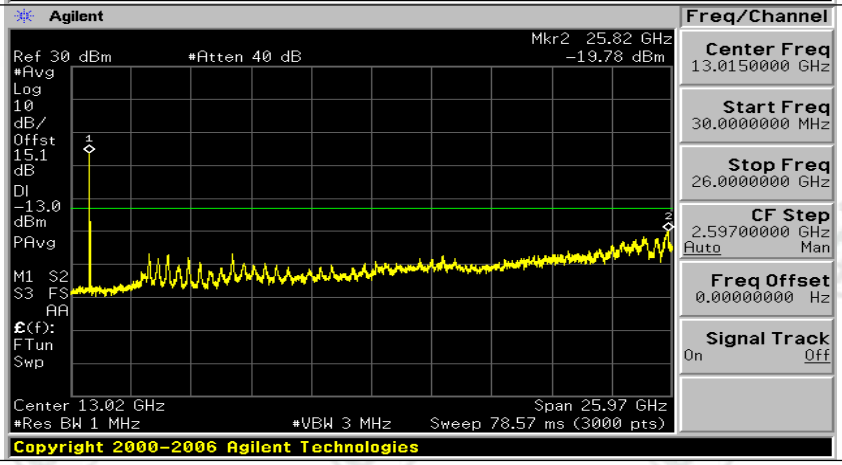
Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

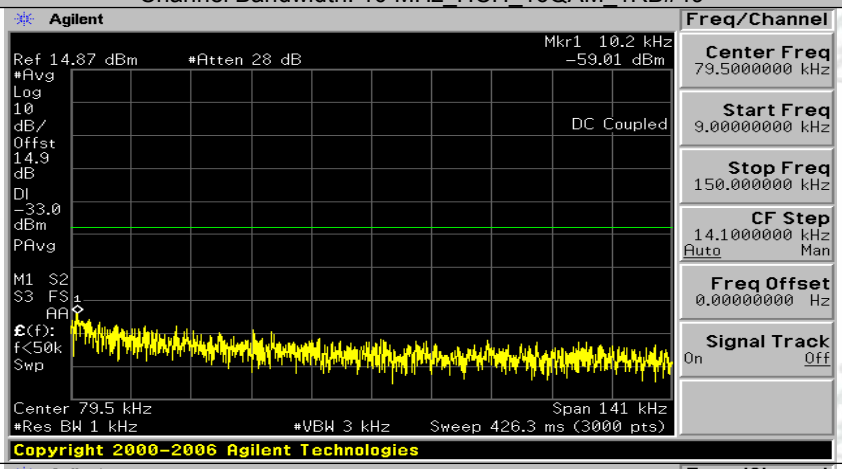
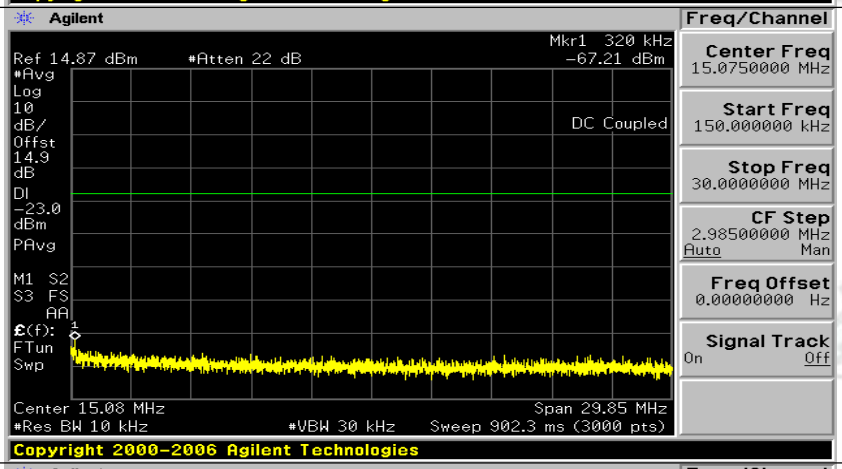
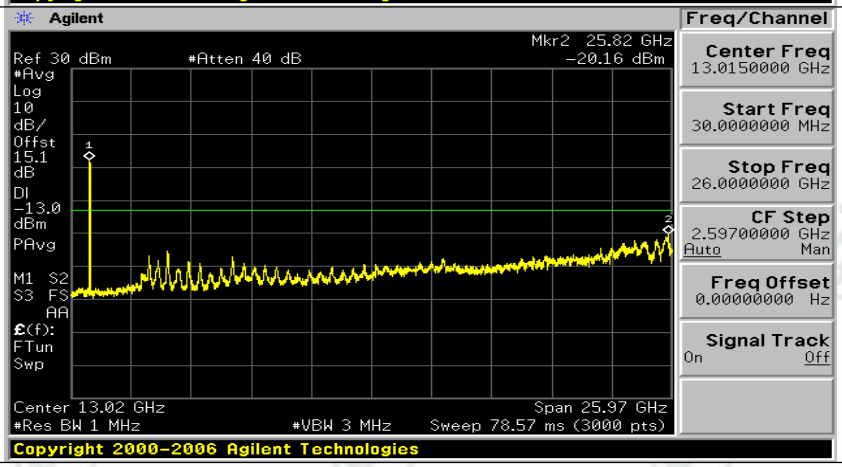


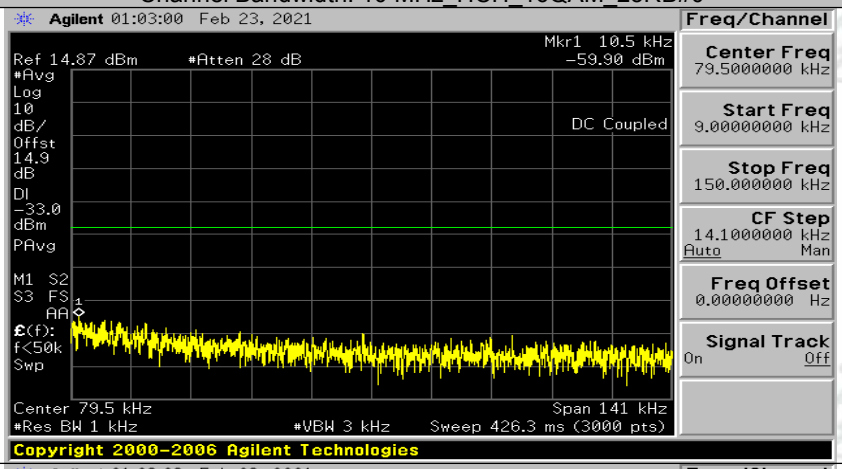
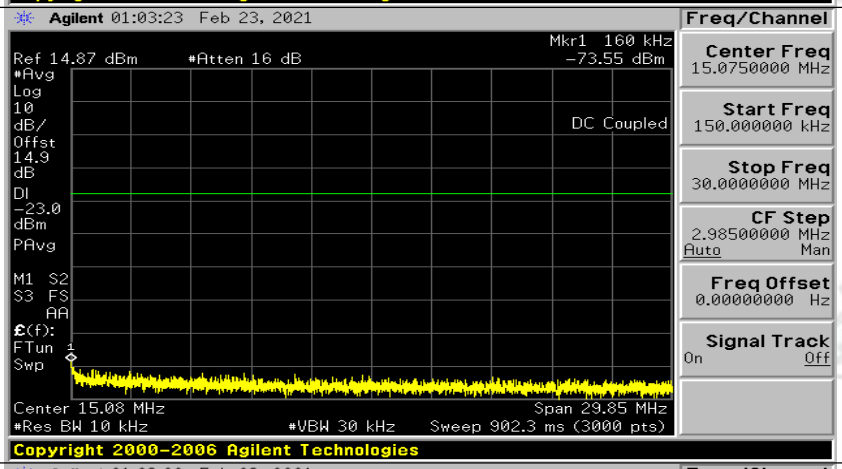
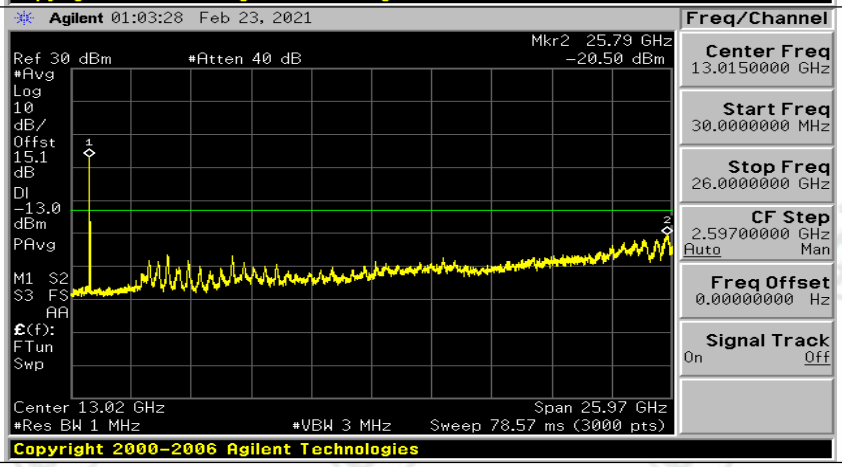


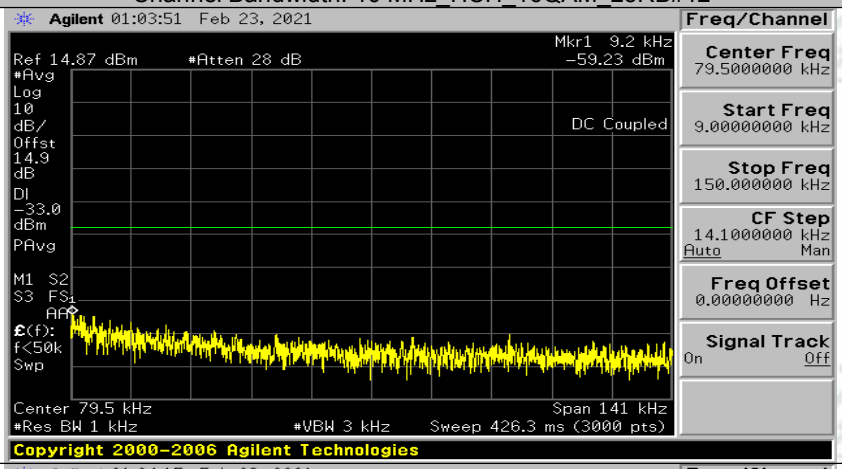
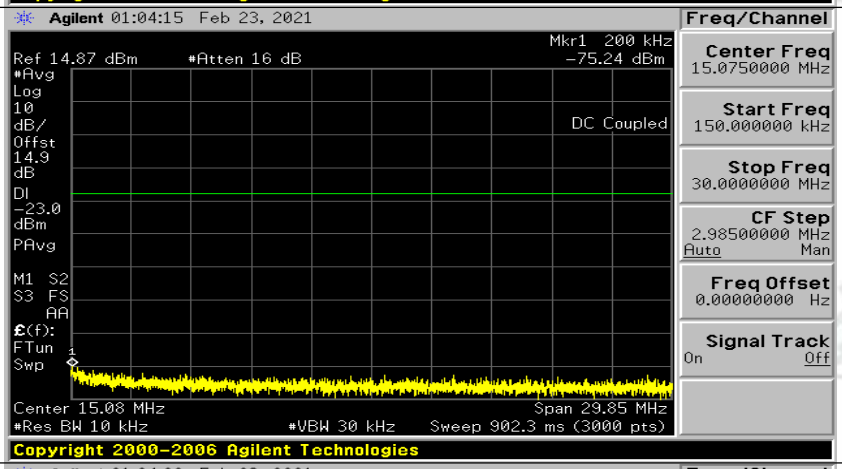
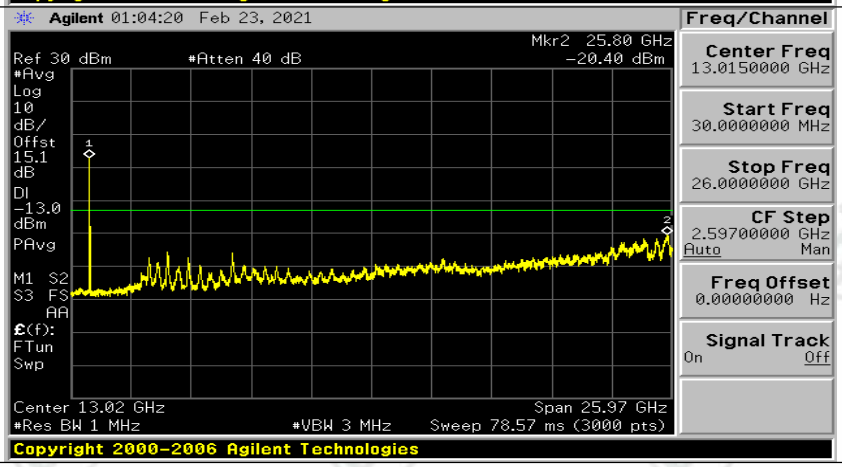


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0




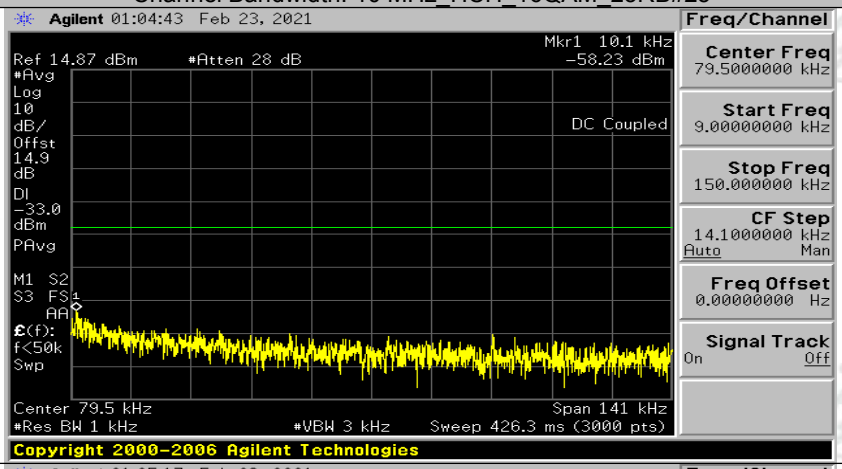
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24




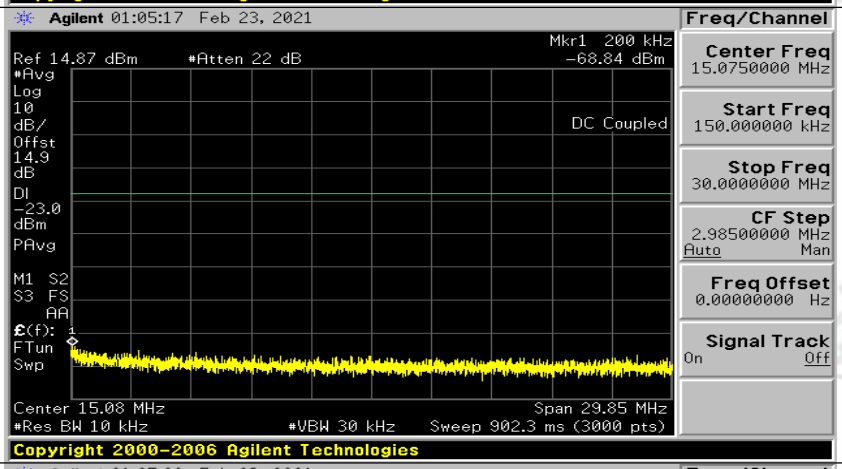
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49




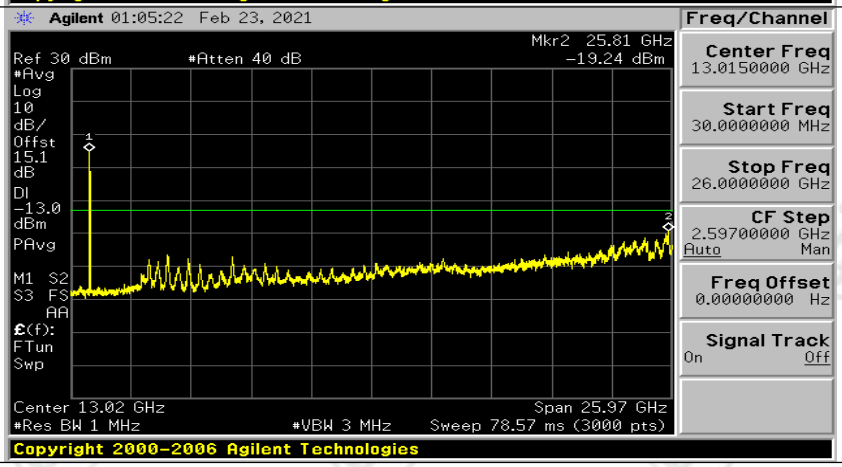
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0




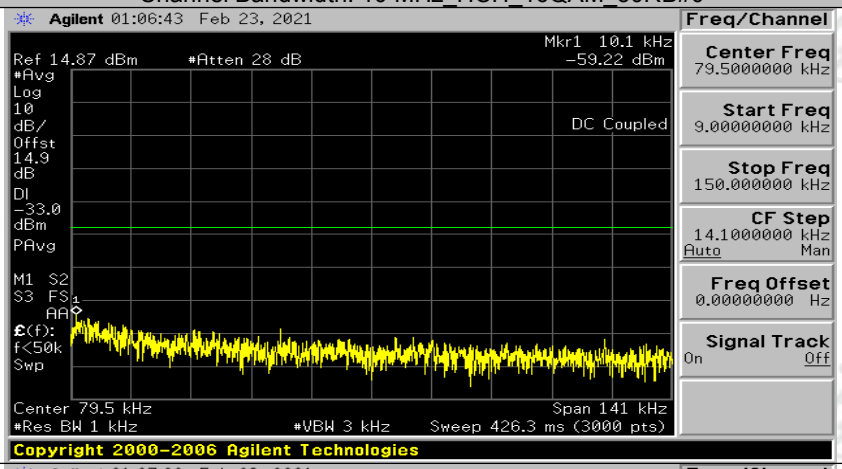
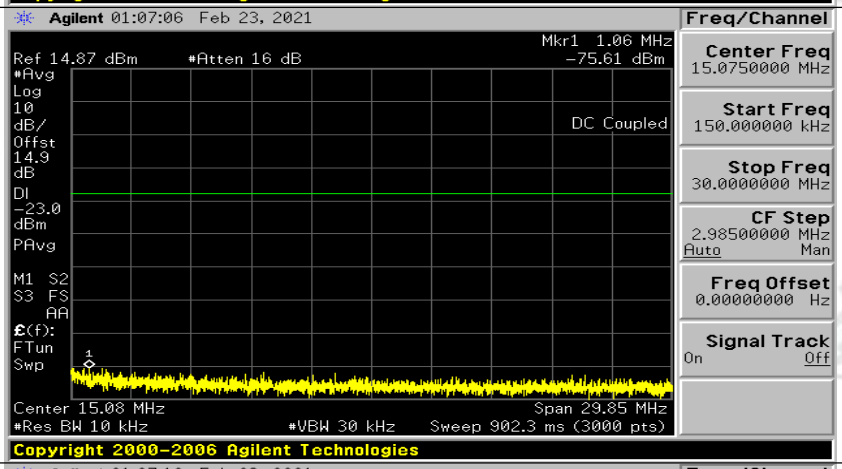
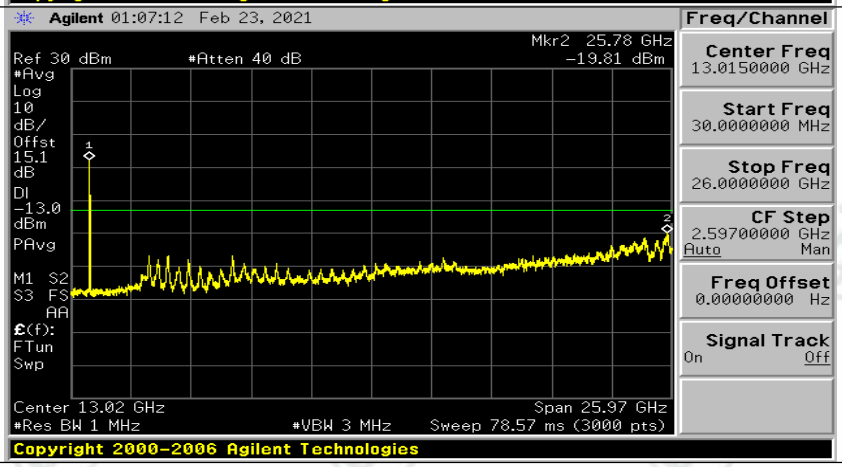
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12




Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25







Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0




Appendix E) Frequency Stability

Test Result

(VL is 3.5V, VN is 3.85V, VH is 4.35V)

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-9.86	-0.011951	± 2.5	PASS
		VN	TN	-4.76	-0.005776	± 2.5	PASS
		VH	TN	-9.57	-0.011604	± 2.5	PASS
	MCH	VL	TN	-9.77	-0.011680	± 2.5	PASS
		VN	TN	-6.17	-0.007371	± 2.5	PASS
		VH	TN	-5.35	-0.006396	± 2.5	PASS
	HCH	VL	TN	-6.02	-0.007099	± 2.5	PASS
		VN	TN	-9.03	-0.010641	± 2.5	PASS
		VH	TN	-3.50	-0.004132	± 2.5	PASS
16QAM	LCH	VL	TN	-5.38	-0.006522	± 2.5	PASS
		VN	TN	-10.27	-0.012454	± 2.5	PASS
		VH	TN	-2.80	-0.003400	± 2.5	PASS
	MCH	VL	TN	-8.15	-0.009748	± 2.5	PASS
		VN	TN	-1.83	-0.002189	± 2.5	PASS
		VH	TN	-1.19	-0.001419	± 2.5	PASS
	HCH	VL	TN	-4.31	-0.005076	± 2.5	PASS
		VN	TN	0.04	0.000051	± 2.5	PASS
		VH	TN	-6.82	-0.008044	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-4.85	-0.005880	± 2.5	PASS
		VN	-20	-4.92	-0.005967	± 2.5	PASS
		VN	-10	-3.30	-0.004007	± 2.5	PASS
		VN	0	-7.68	-0.009315	± 2.5	PASS
		VN	10	-3.96	-0.004805	± 2.5	PASS
		VN	20	-7.12	-0.008638	± 2.5	PASS
		VN	30	-5.42	-0.006574	± 2.5	PASS
		VN	40	-5.41	-0.006557	± 2.5	PASS
		VN	50	-4.95	-0.006002	± 2.5	PASS
	MCH	VN	-30	-10.06	-0.012022	± 2.5	PASS
		VN	-20	-5.29	-0.006327	± 2.5	PASS
		VN	-10	-10.76	-0.012860	± 2.5	PASS
		VN	0	-3.81	-0.004549	± 2.5	PASS
		VN	10	-8.00	-0.009560	± 2.5	PASS
		VN	20	-3.23	-0.003865	± 2.5	PASS
		VN	30	-4.82	-0.005763	± 2.5	PASS
		VN	40	-7.32	-0.008756	± 2.5	PASS
		VN	50	-2.52	-0.003010	± 2.5	PASS
	HCH	VN	-30	-4.49	-0.005295	± 2.5	PASS
		VN	-20	-1.42	-0.001669	± 2.5	PASS
		VN	-10	-4.23	-0.004992	± 2.5	PASS
		VN	0	-8.73	-0.010287	± 2.5	PASS

		VN	10	-9.44	-0.011130	± 2.5	PASS
		VN	20	-4.23	-0.004992	± 2.5	PASS
		VN	30	-7.02	-0.008280	± 2.5	PASS
		VN	40	-8.41	-0.009916	± 2.5	PASS
		VN	50	-3.50	-0.004132	± 2.5	PASS
	LCH	VN	-30	-3.95	-0.004787	± 2.5	PASS
		VN	-20	-6.85	-0.008309	± 2.5	PASS
		VN	-10	-7.98	-0.009679	± 2.5	PASS
		VN	0	-6.09	-0.007389	± 2.5	PASS
		VN	10	-7.42	-0.009002	± 2.5	PASS
		VN	20	-6.78	-0.008222	± 2.5	PASS
		VN	30	-5.36	-0.006505	± 2.5	PASS
		VN	40	-6.45	-0.007823	± 2.5	PASS
		VN	50	-8.10	-0.009818	± 2.5	PASS
	MCH	VN	-30	-0.62	-0.000735	± 2.5	PASS
		VN	-20	-2.96	-0.003540	± 2.5	PASS
		VN	-10	-2.68	-0.003198	± 2.5	PASS
		VN	0	-0.03	-0.000034	± 2.5	PASS
16QAM		VN	10	0.24	0.000291	± 2.5	PASS
		VN	20	-6.95	-0.008311	± 2.5	PASS
		VN	30	-4.49	-0.005370	± 2.5	PASS
		VN	40	-7.84	-0.009371	± 2.5	PASS
		VN	50	-8.10	-0.009679	± 2.5	PASS
	HCH	VN	-30	-4.79	-0.005649	± 2.5	PASS
		VN	-20	-7.58	-0.008938	± 2.5	PASS
		VN	-10	-4.94	-0.005818	± 2.5	PASS
		VN	0	0.33	0.000388	± 2.5	PASS
		VN	10	-8.97	-0.010573	± 2.5	PASS
		VN	20	-9.07	-0.010691	± 2.5	PASS
		VN	30	-4.73	-0.005582	± 2.5	PASS
		VN	40	-6.15	-0.007251	± 2.5	PASS
		VN	50	-5.06	-0.005970	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-5.89	-0.007140	± 2.5	PASS
		VN	TN	-2.55	-0.003085	± 2.5	PASS
		VH	TN	-5.68	-0.006880	± 2.5	PASS
	MCH	VL	TN	-7.21	-0.008619	± 2.5	PASS
		VN	TN	-6.12	-0.007319	± 2.5	PASS
		VH	TN	-5.05	-0.006037	± 2.5	PASS
	HCH	VL	TN	-7.32	-0.008642	± 2.5	PASS
		VN	TN	-5.56	-0.006566	± 2.5	PASS
		VH	TN	-5.44	-0.006414	± 2.5	PASS
16QAM	LCH	VL	TN	0.03	0.000035	± 2.5	PASS
		VN	TN	-7.32	-0.008872	± 2.5	PASS
		VH	TN	-3.83	-0.004644	± 2.5	PASS
	MCH	VL	TN	-3.71	-0.004429	± 2.5	PASS

		VN	TN	-4.75	-0.005678	± 2.5	PASS
		VH	TN	-5.34	-0.006379	± 2.5	PASS
	HCH	VL	TN	-5.19	-0.006127	± 2.5	PASS
		VN	TN	-5.39	-0.006363	± 2.5	PASS
		VH	TN	-9.71	-0.011461	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-10.53	-0.012754	± 2.5	PASS
		VN	-20	-7.22	-0.008751	± 2.5	PASS
		VN	-10	-0.49	-0.000589	± 2.5	PASS
		VN	0	-1.26	-0.001525	± 2.5	PASS
		VN	10	-3.02	-0.003656	± 2.5	PASS
		VN	20	-2.92	-0.003535	± 2.5	PASS
		VN	30	-6.78	-0.008214	± 2.5	PASS
		VN	40	-7.31	-0.008855	± 2.5	PASS
		VN	50	-8.37	-0.010137	± 2.5	PASS
	MCH	VN	-30	-7.95	-0.009508	± 2.5	PASS
		VN	-20	-1.65	-0.001967	± 2.5	PASS
		VN	-10	-7.72	-0.009235	± 2.5	PASS
		VN	0	-7.17	-0.008568	± 2.5	PASS
		VN	10	-3.10	-0.003711	± 2.5	PASS
		VN	20	-4.43	-0.005301	± 2.5	PASS
		VN	30	-4.98	-0.005951	± 2.5	PASS
		VN	40	-12.97	-0.015511	± 2.5	PASS
		VN	50	-3.25	-0.003882	± 2.5	PASS
	HCH	VN	-30	-4.63	-0.005469	± 2.5	PASS
		VN	-20	-3.20	-0.003781	± 2.5	PASS
		VN	-10	-6.52	-0.007697	± 2.5	PASS
		VN	0	-7.51	-0.008862	± 2.5	PASS
		VN	10	-3.28	-0.003865	± 2.5	PASS
		VN	20	-4.59	-0.005418	± 2.5	PASS
		VN	30	-5.99	-0.007072	± 2.5	PASS
		VN	40	-2.40	-0.002836	± 2.5	PASS
		VN	50	-4.56	-0.005384	± 2.5	PASS
16QAM	LCH	VN	-30	-5.74	-0.006949	± 2.5	PASS
		VN	-20	-6.98	-0.008457	± 2.5	PASS
		VN	-10	-0.92	-0.001109	± 2.5	PASS
		VN	0	-5.09	-0.006169	± 2.5	PASS
		VN	10	-3.76	-0.004558	± 2.5	PASS
		VN	20	-3.22	-0.003899	± 2.5	PASS
		VN	30	-2.30	-0.002790	± 2.5	PASS
		VN	40	-11.74	-0.014227	± 2.5	PASS
		VN	50	-4.99	-0.006048	± 2.5	PASS
	MCH	VN	-30	-9.38	-0.011218	± 2.5	PASS
		VN	-20	-7.44	-0.008893	± 2.5	PASS
		VN	-10	-5.75	-0.006875	± 2.5	PASS
		VN	0	-4.92	-0.005883	± 2.5	PASS
		VN	10	-8.74	-0.010449	± 2.5	PASS
		VN	20	-6.07	-0.007251	± 2.5	PASS
		VN	30	-5.22	-0.006242	± 2.5	PASS

		VN	40	-6.48	-0.007747	± 2.5	PASS
		VN	50	-3.55	-0.004241	± 2.5	PASS
	HCH	VN	-30	-6.19	-0.007309	± 2.5	PASS
		VN	-20	-4.58	-0.005401	± 2.5	PASS
		VN	-10	-4.68	-0.005519	± 2.5	PASS
		VN	0	-4.41	-0.005199	± 2.5	PASS
		VN	10	-6.02	-0.007106	± 2.5	PASS
		VN	20	-3.93	-0.004642	± 2.5	PASS
		VN	30	-1.70	-0.002009	± 2.5	PASS
		VN	40	-7.28	-0.008592	± 2.5	PASS
		VN	50	-6.82	-0.008051	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-11.63	-0.014071	± 2.5	PASS
		VN	TN	-7.48	-0.009052	± 2.5	PASS
		VH	TN	-6.84	-0.008273	± 2.5	PASS
	MCH	VL	TN	-13.58	-0.016229	± 2.5	PASS
		VN	TN	-0.86	-0.001026	± 2.5	PASS
		VH	TN	-4.94	-0.005900	± 2.5	PASS
	HCH	VL	TN	-8.93	-0.010545	± 2.5	PASS
		VN	TN	-1.00	-0.001183	± 2.5	PASS
		VH	TN	-6.18	-0.007300	± 2.5	PASS
16QAM	LCH	VL	TN	-6.28	-0.007598	± 2.5	PASS
		VN	TN	-3.58	-0.004327	± 2.5	PASS
		VH	TN	-3.28	-0.003964	± 2.5	PASS
	MCH	VL	TN	-7.40	-0.008841	± 2.5	PASS
		VN	TN	-5.68	-0.006789	± 2.5	PASS
		VH	TN	-8.35	-0.009987	± 2.5	PASS
	HCH	VL	TN	-8.83	-0.010427	± 2.5	PASS
		VN	TN	-9.21	-0.010883	± 2.5	PASS
		VH	TN	-7.68	-0.009075	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-8.94	-0.010818	± 2.5	PASS
		VN	-20	-8.68	-0.010506	± 2.5	PASS
		VN	-10	-5.24	-0.006335	± 2.5	PASS
		VN	0	-8.38	-0.010143	± 2.5	PASS
		VN	10	-8.34	-0.010091	± 2.5	PASS
		VN	20	-5.38	-0.006508	± 2.5	PASS
		VN	30	-6.91	-0.008360	± 2.5	PASS
		VN	40	-8.10	-0.009796	± 2.5	PASS
		VN	50	-4.48	-0.005417	± 2.5	PASS
	MCH	VN	-30	-4.45	-0.005318	± 2.5	PASS
		VN	-20	-11.90	-0.014228	± 2.5	PASS
		VN	-10	-11.22	-0.013407	± 2.5	PASS
		VN	0	-13.65	-0.016315	± 2.5	PASS

		VN	10	-5.95	-0.007114	± 2.5	PASS
		VN	20	-9.38	-0.011218	± 2.5	PASS
		VN	30	-4.35	-0.005199	± 2.5	PASS
		VN	40	-3.52	-0.004207	± 2.5	PASS
		VN	50	-4.08	-0.004874	± 2.5	PASS
	HCH	VN	-30	-2.83	-0.003346	± 2.5	PASS
		VN	-20	-6.01	-0.007098	± 2.5	PASS
		VN	-10	-6.79	-0.008027	± 2.5	PASS
		VN	0	-7.55	-0.008923	± 2.5	PASS
		VN	10	-6.08	-0.007182	± 2.5	PASS
		VN	20	-10.21	-0.012066	± 2.5	PASS
		VN	30	-6.95	-0.008213	± 2.5	PASS
		VN	40	-5.61	-0.006624	± 2.5	PASS
		VN	50	-5.81	-0.006861	± 2.5	PASS
16QAM	LCH	VN	-30	-5.56	-0.006733	± 2.5	PASS
		VN	-20	-7.30	-0.008827	± 2.5	PASS
		VN	-10	-5.51	-0.006664	± 2.5	PASS
		VN	0	-3.65	-0.004414	± 2.5	PASS
		VN	10	-5.54	-0.006698	± 2.5	PASS
		VN	20	-5.09	-0.006162	± 2.5	PASS
		VN	30	-3.50	-0.004240	± 2.5	PASS
		VN	40	-4.76	-0.005764	± 2.5	PASS
		VN	50	-6.92	-0.008377	± 2.5	PASS
	MCH	VN	-30	-11.77	-0.014074	± 2.5	PASS
		VN	-20	-9.53	-0.011389	± 2.5	PASS
		VN	-10	-7.45	-0.008910	± 2.5	PASS
		VN	0	-11.06	-0.013219	± 2.5	PASS
		VN	10	-2.85	-0.003403	± 2.5	PASS
		VN	20	-6.87	-0.008209	± 2.5	PASS
		VN	30	-6.91	-0.008260	± 2.5	PASS
		VN	40	-6.58	-0.007867	± 2.5	PASS
		VN	50	-8.64	-0.010329	± 2.5	PASS
	HCH	VN	-30	-7.32	-0.008652	± 2.5	PASS
		VN	-20	-6.71	-0.007926	± 2.5	PASS
		VN	-10	-9.16	-0.010815	± 2.5	PASS
		VN	0	-8.24	-0.009734	± 2.5	PASS
		VN	10	-10.61	-0.012539	± 2.5	PASS
		VN	20	-10.67	-0.012607	± 2.5	PASS
		VN	30	-9.08	-0.010731	± 2.5	PASS
		VN	40	-4.92	-0.005813	± 2.5	PASS
		VN	50	-6.19	-0.007317	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-7.12	-0.008593	± 2.5	PASS
		VN	TN	-3.65	-0.004400	± 2.5	PASS
		VH	TN	-9.03	-0.010888	± 2.5	PASS
	MCH	VL	TN	-2.00	-0.002394	± 2.5	PASS

		VN	TN	-2.88	-0.003437	± 2.5	PASS
		VH	TN	-5.65	-0.006755	± 2.5	PASS
	HCH	VL	TN	-5.44	-0.006441	± 2.5	PASS
		VN	TN	-9.17	-0.010864	± 2.5	PASS
		VH	TN	-5.06	-0.006000	± 2.5	PASS
16QAM	LCH	VL	TN	-4.81	-0.005798	± 2.5	PASS
		VN	TN	-2.76	-0.003330	± 2.5	PASS
		VH	TN	-5.81	-0.007006	± 2.5	PASS
	MCH	VL	TN	-6.61	-0.007901	± 2.5	PASS
		VN	TN	-7.10	-0.008482	± 2.5	PASS
		VH	TN	-6.57	-0.007849	± 2.5	PASS
	HCH	VL	TN	-8.63	-0.010220	± 2.5	PASS
		VN	TN	-9.61	-0.011390	± 2.5	PASS
		VH	TN	-8.88	-0.010525	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-6.98	-0.008421	± 2.5	PASS
		VN	-20	-8.96	-0.010802	± 2.5	PASS
		VN	-10	-4.99	-0.006022	± 2.5	PASS
		VN	0	-3.96	-0.004780	± 2.5	PASS
		VN	10	-4.36	-0.005263	± 2.5	PASS
		VN	20	-6.41	-0.007731	± 2.5	PASS
		VN	30	-4.45	-0.005367	± 2.5	PASS
		VN	40	-8.18	-0.009870	± 2.5	PASS
		VN	50	-8.87	-0.010699	± 2.5	PASS
	MCH	VN	-30	-3.43	-0.004104	± 2.5	PASS
		VN	-20	-6.85	-0.008191	± 2.5	PASS
		VN	-10	-7.00	-0.008362	± 2.5	PASS
		VN	0	-5.15	-0.006156	± 2.5	PASS
		VN	10	-4.09	-0.004891	± 2.5	PASS
		VN	20	-5.45	-0.006516	± 2.5	PASS
		VN	30	-7.02	-0.008397	± 2.5	PASS
		VN	40	-2.76	-0.003301	± 2.5	PASS
		VN	50	-3.81	-0.004549	± 2.5	PASS
	HCH	VN	-30	-3.65	-0.004322	± 2.5	PASS
		VN	-20	-1.80	-0.002136	± 2.5	PASS
		VN	-10	-2.39	-0.002831	± 2.5	PASS
		VN	0	-8.55	-0.010136	± 2.5	PASS
		VN	10	-4.09	-0.004847	± 2.5	PASS
		VN	20	-5.18	-0.006136	± 2.5	PASS
		VN	30	-6.67	-0.007898	± 2.5	PASS
		VN	40	-5.97	-0.007068	± 2.5	PASS
		VN	50	-4.71	-0.005576	± 2.5	PASS
16QAM	LCH	VN	-30	-4.32	-0.005211	± 2.5	PASS
		VN	-20	-3.69	-0.004452	± 2.5	PASS
		VN	-10	-4.96	-0.005988	± 2.5	PASS
		VN	0	-6.07	-0.007316	± 2.5	PASS
		VN	10	-4.48	-0.005401	± 2.5	PASS
		VN	20	-6.31	-0.007610	± 2.5	PASS
		VN	30	-6.07	-0.007316	± 2.5	PASS

		VN	40	-4.53	-0.005470	± 2.5	PASS
		VN	50	-5.32	-0.006419	± 2.5	PASS
	MCH	VN	-30	-0.04	-0.000051	± 2.5	PASS
		VN	-20	-4.49	-0.005370	± 2.5	PASS
		VN	-10	-11.01	-0.013168	± 2.5	PASS
		VN	0	-6.88	-0.008226	± 2.5	PASS
		VN	10	-8.20	-0.009799	± 2.5	PASS
		VN	20	-5.61	-0.006704	± 2.5	PASS
		VN	30	-5.32	-0.006362	± 2.5	PASS
		VN	40	-5.85	-0.006994	± 2.5	PASS
		VN	50	-6.82	-0.008157	± 2.5	PASS
	HCH	VN	-30	-10.87	-0.012881	± 2.5	PASS
		VN	-20	-8.43	-0.009983	± 2.5	PASS
		VN	-10	-7.45	-0.008831	± 2.5	PASS
		VN	0	-6.08	-0.007203	± 2.5	PASS
		VN	10	-2.39	-0.002831	± 2.5	PASS
		VN	20	-4.61	-0.005458	± 2.5	PASS
		VN	30	-2.32	-0.002746	± 2.5	PASS
		VN	40	-10.34	-0.012254	± 2.5	PASS
		VN	50	-10.97	-0.013000	± 2.5	PASS

Appendix F) Field strength of spurious radiation

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-30MHz	Peak	10kHz	30kHz	Peak
30MHz-1GHz	Peak	120kHz	300kHz	Peak
Above 1GHz	Peak	1MHz	3MHz	Peak

Measurement Procedure:

1. Scan up to 10th harmonic, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

1) The EUT was powered ON and placed on a 1.5m hight table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
2) The EUT was set 3 meters(above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
7) The output power into the substitution antenna was then measured.
8) Steps 6) and 7)were repeated with both antennas polarized.
9) Calculate power in dBm by the following formula:

   ERP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBd)
   EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi)
   EIRP=ERP+2.15dB

   where:
   Pg is the generator output power into the substitution antenna.
10) Test the EUT in the lowest channel, the middle channel the Highest channel
11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode,And found the X axis positioning which it is worse case.
12) Repeat above procedures until all frequencies measured was complete.

Limit: Attenuated at least 43+10log(P)

Test Data:

QPSK

Mode:	LTE Traffic		
Band:	5	Channel:	20407
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	53.4787	150	0	-79.91	-13.00	66.91	Pass	Horizontal
2	140.0200	150	290	-80.22	-13.00	67.22	Pass	Horizontal
3	208.9038	150	78	-80.07	-13.00	67.07	Pass	Horizontal
4	360.0600	150	346	-79.34	-13.00	66.34	Pass	Horizontal
5	440.0040	150	332	-77.37	-13.00	64.37	Pass	Horizontal
6	687.5975	150	78	-73.64	-13.00	60.64	Pass	Horizontal
7	1649.4000	150	290	-53.40	-13.00	40.40	Pass	Horizontal
8	2474.1000	150	219	-50.03	-13.00	37.03	Pass	Horizontal
9	2532.1532	150	23	-46.64	-13.00	33.64	Pass	Horizontal
10	3298.8000	150	345	-50.45	-13.00	37.45	Pass	Horizontal
11	3560.2780	150	345	-46.79	-13.00	33.79	Pass	Horizontal
12	9733.8367	150	227	-41.40	-13.00	28.40	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20407
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	51.1502	150	333	-64.82	-13.00	51.82	Pass	Vertical
2	103.1526	150	219	-79.11	-13.00	66.11	Pass	Vertical
3	140.0200	150	63	-76.68	-13.00	63.68	Pass	Vertical
4	208.9038	150	192	-70.29	-13.00	57.29	Pass	Vertical
5	411.4803	150	7	-76.93	-13.00	63.93	Pass	Vertical
6	742.5105	150	0	-63.01	-13.00	50.01	Pass	Vertical
7	1649.4000	150	290	-52.73	-13.00	39.73	Pass	Vertical
8	1754.0754	150	36	-45.90	-13.00	32.90	Pass	Vertical
9	2474.1000	150	219	-49.77	-13.00	36.77	Pass	Vertical
10	3298.8000	150	274	-49.69	-13.00	36.69	Pass	Vertical
11	4671.0836	150	360	-47.61	-13.00	34.61	Pass	Vertical
12	9760.8380	150	299	-41.85	-13.00	28.85	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	52.1204	150	305	-78.49	-13.00	65.49	Pass	Horizontal
2	103.1526	150	305	-79.50	-13.00	66.50	Pass	Horizontal
3	140.0200	150	194	-80.23	-13.00	67.23	Pass	Horizontal
4	208.9038	150	10	-80.40	-13.00	67.40	Pass	Horizontal
5	440.0040	150	348	-77.33	-13.00	64.33	Pass	Horizontal
6	742.5105	150	237	-67.53	-13.00	54.53	Pass	Horizontal
7	1302.0052	150	52	-49.30	-13.00	36.30	Pass	Horizontal
8	1673.0000	150	359	-53.53	-13.00	40.53	Pass	Horizontal
9	2506.5000	150	264	-49.98	-13.00	36.98	Pass	Horizontal
10	3346.0000	150	39	-51.33	-13.00	38.33	Pass	Horizontal
11	5035.3535	150	152	-46.98	-13.00	33.98	Pass	Horizontal
12	9704.0954	150	1	-41.80	-13.00	28.80	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.2098	150	81	-65.97	-13.00	52.97	Pass	Vertical
2	140.0200	150	351	-76.16	-13.00	63.16	Pass	Vertical
3	208.9038	150	166	-70.51	-13.00	57.51	Pass	Vertical
4	411.4803	150	39	-77.62	-13.00	64.62	Pass	Vertical
5	687.5975	150	266	-71.04	-13.00	58.04	Pass	Vertical
6	742.5105	150	39	-64.01	-13.00	51.01	Pass	Vertical
7	1361.9362	150	68	-49.03	-13.00	36.03	Pass	Vertical
8	1673.0000	150	359	-52.67	-13.00	39.67	Pass	Vertical
9	2506.5000	150	124	-50.78	-13.00	37.78	Pass	Vertical
10	3346.0000	150	1	-49.58	-13.00	36.58	Pass	Vertical
11	6493.6744	150	351	-47.07	-13.00	34.07	Pass	Vertical
12	11814.6065	150	351	-41.39	-13.00	28.39	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20600
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	65.8972	150	10	-80.09	-13.00	67.09	Pass	Horizontal
2	110.1380	150	109	-79.54	-13.00	66.54	Pass	Horizontal
3	140.0200	150	347	-79.80	-13.00	66.80	Pass	Horizontal
4	208.9038	150	94	-80.55	-13.00	67.55	Pass	Horizontal
5	625.1170	150	165	-74.38	-13.00	61.38	Pass	Horizontal
6	742.5105	150	10	-69.87	-13.00	56.87	Pass	Horizontal
7	1364.8365	150	123	-48.61	-13.00	35.61	Pass	Horizontal
8	1696.6000	150	207	-53.99	-13.00	40.99	Pass	Horizontal
9	2544.9000	150	38	-50.08	-13.00	37.08	Pass	Horizontal
10	3393.2000	150	360	-49.86	-13.00	36.86	Pass	Horizontal
11	6419.4210	150	298	-47.21	-13.00	34.21	Pass	Horizontal
12	9673.0837	150	252	-41.35	-13.00	28.35	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20600
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	51.5383	150	207	-65.04	-13.00	52.04	Pass	Vertical
2	140.0200	150	359	-76.79	-13.00	63.79	Pass	Vertical
3	208.9038	150	248	-69.81	-13.00	56.81	Pass	Vertical
4	270.0260	150	9	-79.62	-13.00	66.62	Pass	Vertical
5	440.0040	150	304	-77.31	-13.00	64.31	Pass	Vertical
6	742.5105	150	1	-68.76	-13.00	55.76	Pass	Vertical
7	1696.6000	150	220	-53.42	-13.00	40.42	Pass	Vertical
8	2544.9000	150	193	-50.20	-13.00	37.20	Pass	Vertical
9	3186.7593	150	181	-45.81	-13.00	32.81	Pass	Vertical
10	3393.2000	150	252	-49.87	-13.00	36.87	Pass	Vertical
11	9768.3384	150	252	-42.05	-13.00	29.05	Pass	Vertical
12	11794.9397	150	112	-40.85	-13.00	27.85	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20415
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.9860	150	177	-79.40	-13.00	66.40	Pass	Horizontal
2	140.0200	150	0	-80.04	-13.00	67.04	Pass	Horizontal
3	208.9038	150	92	-80.65	-13.00	67.65	Pass	Horizontal
4	440.0040	150	65	-77.85	-13.00	64.85	Pass	Horizontal
5	687.5975	150	261	-73.88	-13.00	60.88	Pass	Horizontal
6	742.5105	150	319	-67.80	-13.00	54.80	Pass	Horizontal
7	1360.6361	150	234	-49.01	-13.00	36.01	Pass	Horizontal
8	1651.0000	150	50	-53.50	-13.00	40.50	Pass	Horizontal
9	2476.5000	150	332	-49.73	-13.00	36.73	Pass	Horizontal
10	3302.0000	150	299	-49.66	-13.00	36.66	Pass	Horizontal
11	4662.8331	150	113	-47.54	-13.00	34.54	Pass	Horizontal
12	9727.8364	150	299	-41.91	-13.00	28.91	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20415
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	51.3443	150	92	-66.74	-13.00	53.74	Pass	Vertical
2	71.9124	150	333	-75.42	-13.00	62.42	Pass	Vertical
3	140.0200	150	248	-75.49	-13.00	62.49	Pass	Vertical
4	208.9038	150	248	-70.16	-13.00	57.16	Pass	Vertical
5	411.4803	150	163	-76.86	-13.00	63.86	Pass	Vertical
6	742.5105	150	205	-64.98	-13.00	51.98	Pass	Vertical
7	1651.0000	150	319	-53.52	-13.00	40.52	Pass	Vertical
8	2476.5000	150	163	-50.69	-13.00	37.69	Pass	Vertical
9	3009.7505	150	42	-45.43	-13.00	32.43	Pass	Vertical
10	3302.0000	150	42	-50.19	-13.00	37.19	Pass	Vertical
11	6454.6727	150	204	-46.33	-13.00	33.33	Pass	Vertical
12	11813.6907	150	297	-41.45	-13.00	28.45	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.9860	150	52	-79.85	-13.00	66.85	Pass	Horizontal
2	140.0200	150	165	-81.03	-13.00	68.03	Pass	Horizontal
3	208.9038	150	1	-80.51	-13.00	67.51	Pass	Horizontal
4	440.0040	150	249	-77.81	-13.00	64.81	Pass	Horizontal
5	687.5975	150	359	-73.40	-13.00	60.40	Pass	Horizontal
6	742.5105	150	94	-67.97	-13.00	54.97	Pass	Horizontal
7	1292.6043	150	52	-49.83	-13.00	36.83	Pass	Horizontal
8	1673.0000	150	52	-53.45	-13.00	40.45	Pass	Horizontal
9	2506.5000	150	207	-51.08	-13.00	38.08	Pass	Horizontal
10	3346.0000	150	192	-50.98	-13.00	37.98	Pass	Horizontal
11	6371.4621	150	348	-47.06	-13.00	34.06	Pass	Horizontal
12	9717.0217	150	1	-41.99	-13.00	28.99	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.9860	150	96	-66.83	-13.00	53.83	Pass	Vertical
2	99.2719	150	1	-78.38	-13.00	65.38	Pass	Vertical
3	140.0200	150	55	-75.82	-13.00	62.82	Pass	Vertical
4	208.9038	150	182	-70.19	-13.00	57.19	Pass	Vertical
5	440.0040	150	253	-77.06	-13.00	64.06	Pass	Vertical
6	742.5105	150	96	-66.72	-13.00	53.72	Pass	Vertical
7	1673.0000	150	1	-53.89	-13.00	40.89	Pass	Vertical
8	2506.5000	150	166	-50.15	-13.00	37.15	Pass	Vertical
9	3190.4190	150	196	-46.57	-13.00	33.57	Pass	Vertical
10	3346.0000	150	280	-51.14	-13.00	38.14	Pass	Vertical
11	5728.6729	150	360	-48.21	-13.00	35.21	Pass	Vertical
12	9926.1926	150	310	-42.20	-13.00	29.20	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20635
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	59.1058	150	359	-79.50	-13.00	66.50	Pass	Horizontal
2	140.0200	150	66	-79.70	-13.00	66.70	Pass	Horizontal
3	208.9038	150	164	-79.77	-13.00	66.77	Pass	Horizontal
4	440.0040	150	346	-77.81	-13.00	64.81	Pass	Horizontal
5	687.5975	150	206	-73.09	-13.00	60.09	Pass	Horizontal
6	742.5105	150	1	-70.26	-13.00	57.26	Pass	Horizontal
7	1299.0299	150	66	-49.16	-13.00	36.16	Pass	Horizontal
8	1695.0000	150	234	-53.59	-13.00	40.59	Pass	Horizontal
9	2542.5000	150	93	-50.48	-13.00	37.48	Pass	Horizontal
10	3017.2509	150	205	-45.66	-13.00	32.66	Pass	Horizontal
11	3390.0000	150	134	-49.09	-13.00	36.09	Pass	Horizontal
12	9667.0834	150	66	-41.31	-13.00	28.31	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20635
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	51.1502	150	47	-66.37	-13.00	53.37	Pass	Vertical
2	140.0200	150	162	-75.95	-13.00	62.95	Pass	Vertical
3	208.9038	150	247	-69.70	-13.00	56.70	Pass	Vertical
4	270.0260	150	175	-79.16	-13.00	66.16	Pass	Vertical
5	411.4803	150	303	-77.64	-13.00	64.64	Pass	Vertical
6	742.5105	150	76	-69.52	-13.00	56.52	Pass	Vertical
7	1197.6198	150	204	-48.99	-13.00	35.99	Pass	Vertical
8	1695.0000	150	20	-53.09	-13.00	40.09	Pass	Vertical
9	2542.5000	150	20	-50.28	-13.00	37.28	Pass	Vertical
10	3390.0000	150	90	-50.04	-13.00	37.04	Pass	Vertical
11	3904.5452	150	354	-47.35	-13.00	34.35	Pass	Vertical
12	10279.1140	150	116	-42.28	-13.00	29.28	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20425
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.9860	150	235	-79.59	-13.00	66.59	Pass	Horizontal
2	104.1228	150	0	-79.97	-13.00	66.97	Pass	Horizontal
3	208.9038	150	37	-79.17	-13.00	66.17	Pass	Horizontal
4	440.0040	150	163	-77.76	-13.00	64.76	Pass	Horizontal
5	687.5975	150	290	-73.54	-13.00	60.54	Pass	Horizontal
6	742.5105	150	248	-70.66	-13.00	57.66	Pass	Horizontal
7	1300.0300	150	79	-48.53	-13.00	35.53	Pass	Horizontal
8	1653.0000	150	346	-54.34	-13.00	41.34	Pass	Horizontal
9	2479.5000	150	333	-49.64	-13.00	36.64	Pass	Horizontal
10	3306.0000	150	298	-48.32	-13.00	35.32	Pass	Horizontal
11	8137.7569	150	298	-43.21	-13.00	30.21	Pass	Horizontal
12	11854.9427	150	298	-42.09	-13.00	29.09	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20425
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	50.5681	150	332	-66.41	-13.00	53.41	Pass	Vertical
2	69.7780	150	64	-76.59	-13.00	63.59	Pass	Vertical
3	140.0200	150	120	-76.10	-13.00	63.10	Pass	Vertical
4	208.9038	150	149	-69.96	-13.00	56.96	Pass	Vertical
5	411.4803	150	319	-76.03	-13.00	63.03	Pass	Vertical
6	742.5105	150	261	-66.40	-13.00	53.40	Pass	Vertical
7	1297.6298	150	332	-48.85	-13.00	35.85	Pass	Vertical
8	1653.0000	150	36	-53.52	-13.00	40.52	Pass	Vertical
9	2479.5000	150	359	-50.34	-13.00	37.34	Pass	Vertical
10	3306.0000	150	252	-48.59	-13.00	35.59	Pass	Vertical
11	8438.5219	150	360	-43.06	-13.00	30.06	Pass	Vertical
12	11809.9405	150	66	-41.44	-13.00	28.44	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	48.6277	150	117	-79.24	-13.00	66.24	Pass	Horizontal
2	208.9038	150	33	-79.90	-13.00	66.90	Pass	Horizontal
3	338.7157	150	75	-78.90	-13.00	65.90	Pass	Horizontal
4	420.0180	150	272	-77.90	-13.00	64.90	Pass	Horizontal
5	687.5975	150	358	-73.53	-13.00	60.53	Pass	Horizontal
6	763.6607	150	188	-72.22	-13.00	59.22	Pass	Horizontal
7	1298.4798	150	159	-48.71	-13.00	35.71	Pass	Horizontal
8	1673.0000	150	48	-53.26	-13.00	40.26	Pass	Horizontal
9	2506.5000	150	33	-50.02	-13.00	37.02	Pass	Horizontal
10	3346.0000	150	19	-51.24	-13.00	38.24	Pass	Horizontal
11	5102.3352	150	33	-47.70	-13.00	34.70	Pass	Horizontal
12	9695.8696	150	75	-42.09	-13.00	29.09	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	51.3443	150	26	-66.47	-13.00	53.47	Pass	Vertical
2	140.0200	150	194	-76.75	-13.00	63.75	Pass	Vertical
3	208.9038	150	110	-70.04	-13.00	57.04	Pass	Vertical
4	270.0260	150	1	-78.92	-13.00	65.92	Pass	Vertical
5	411.4803	150	292	-76.30	-13.00	63.30	Pass	Vertical
6	742.5105	150	96	-64.64	-13.00	51.64	Pass	Vertical
7	1673.0000	150	1	-52.30	-13.00	39.30	Pass	Vertical
8	2506.5000	150	354	-50.11	-13.00	37.11	Pass	Vertical
9	3197.4697	150	181	-46.91	-13.00	33.91	Pass	Vertical
10	3346.0000	150	139	-50.40	-13.00	37.40	Pass	Vertical
11	6421.9922	150	223	-46.94	-13.00	33.94	Pass	Vertical
12	10228.1978	150	26	-42.48	-13.00	29.48	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20625
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	50.1800	150	178	-80.00	-13.00	67.00	Pass	Horizontal
2	123.3327	150	1	-80.06	-13.00	67.06	Pass	Horizontal
3	208.9038	150	51	-79.99	-13.00	66.99	Pass	Horizontal
4	440.0040	150	165	-76.49	-13.00	63.49	Pass	Horizontal
5	600.0860	150	359	-74.99	-13.00	61.99	Pass	Horizontal
6	742.5105	150	359	-67.89	-13.00	54.89	Pass	Horizontal
7	1299.2299	150	136	-49.25	-13.00	36.25	Pass	Horizontal
8	1693.0000	150	93	-53.26	-13.00	40.26	Pass	Horizontal
9	2539.5000	150	93	-49.60	-13.00	36.60	Pass	Horizontal
10	3386.0000	150	1	-50.70	-13.00	37.70	Pass	Horizontal
11	4923.8462	150	134	-47.21	-13.00	34.21	Pass	Horizontal
12	9734.5867	150	205	-41.42	-13.00	28.42	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20625
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	51.1502	150	8	-65.68	-13.00	52.68	Pass	Vertical
2	99.2719	150	108	-78.42	-13.00	65.42	Pass	Vertical
3	140.0200	150	277	-78.37	-13.00	65.37	Pass	Vertical
4	208.9038	150	121	-70.43	-13.00	57.43	Pass	Vertical
5	440.0040	150	37	-77.17	-13.00	64.17	Pass	Vertical
6	742.5105	150	0	-65.41	-13.00	52.41	Pass	Vertical
7	1319.4319	150	277	-48.63	-13.00	35.63	Pass	Vertical
8	1693.0000	150	79	-52.74	-13.00	39.74	Pass	Vertical
9	2539.5000	150	219	-49.92	-13.00	36.92	Pass	Vertical
10	3386.0000	150	227	-48.74	-13.00	35.74	Pass	Vertical
11	6498.1749	150	112	-47.66	-13.00	34.66	Pass	Vertical
12	11790.4395	150	205	-40.77	-13.00	27.77	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20450
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.7920	150	290	-80.03	-13.00	67.03	Pass	Horizontal
2	104.5109	150	219	-79.75	-13.00	66.75	Pass	Horizontal
3	140.0200	150	235	-79.97	-13.00	66.97	Pass	Horizontal
4	208.9038	150	37	-80.18	-13.00	67.18	Pass	Horizontal
5	687.5975	150	23	-73.67	-13.00	60.67	Pass	Horizontal
6	742.5105	150	177	-69.69	-13.00	56.69	Pass	Horizontal
7	1295.4295	150	177	-48.81	-13.00	35.81	Pass	Horizontal
8	1658.0000	150	108	-54.18	-13.00	41.18	Pass	Horizontal
9	2487.0000	150	248	-49.75	-13.00	36.75	Pass	Horizontal
10	3316.0000	150	67	-50.32	-13.00	37.32	Pass	Horizontal
11	6389.4195	150	228	-46.61	-13.00	33.61	Pass	Horizontal
12	9721.8361	150	88	-41.60	-13.00	28.60	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20450
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	52.5085	150	50	-65.02	-13.00	52.02	Pass	Vertical
2	69.7780	150	23	-76.41	-13.00	63.41	Pass	Vertical
3	140.0200	150	150	-77.97	-13.00	64.97	Pass	Vertical
4	208.9038	150	262	-70.41	-13.00	57.41	Pass	Vertical
5	290.0120	150	65	-78.76	-13.00	65.76	Pass	Vertical
6	742.5105	150	23	-67.82	-13.00	54.82	Pass	Vertical
7	1299.6300	150	150	-48.87	-13.00	35.87	Pass	Vertical
8	1658.0000	150	332	-53.29	-13.00	40.29	Pass	Vertical
9	2487.0000	150	319	-50.63	-13.00	37.63	Pass	Vertical
10	3316.0000	150	113	-49.50	-13.00	36.50	Pass	Vertical
11	4582.5791	150	320	-48.07	-13.00	35.07	Pass	Vertical
12	11778.4389	150	66	-40.85	-13.00	27.85	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.9860	150	194	-80.13	-13.00	67.13	Pass	Horizontal
2	140.0200	150	278	-81.07	-13.00	68.07	Pass	Horizontal
3	208.9038	150	10	-80.54	-13.00	67.54	Pass	Horizontal
4	359.8660	150	236	-79.01	-13.00	66.01	Pass	Horizontal
5	625.1170	150	123	-74.29	-13.00	61.29	Pass	Horizontal
6	742.5105	150	123	-68.53	-13.00	55.53	Pass	Horizontal
7	1298.4798	150	67	-48.59	-13.00	35.59	Pass	Horizontal
8	1673.0000	150	306	-53.37	-13.00	40.37	Pass	Horizontal
9	2506.5000	150	1	-51.01	-13.00	38.01	Pass	Horizontal
10	3346.0000	150	94	-51.04	-13.00	38.04	Pass	Horizontal
11	5092.9343	150	334	-47.87	-13.00	34.87	Pass	Horizontal
12	9694.6945	150	109	-42.13	-13.00	29.13	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	51.7323	150	152	-66.17	-13.00	53.17	Pass	Vertical
2	140.0200	150	25	-76.36	-13.00	63.36	Pass	Vertical
3	208.9038	150	181	-70.31	-13.00	57.31	Pass	Vertical
4	290.0120	150	166	-79.08	-13.00	66.08	Pass	Vertical
5	411.4803	150	96	-76.87	-13.00	63.87	Pass	Vertical
6	742.5105	150	68	-66.21	-13.00	53.21	Pass	Vertical
7	1361.9362	150	208	-49.72	-13.00	36.72	Pass	Vertical
8	1673.0000	150	351	-53.45	-13.00	40.45	Pass	Vertical
9	2506.5000	150	195	-49.89	-13.00	36.89	Pass	Vertical
10	3346.0000	150	195	-50.38	-13.00	37.38	Pass	Vertical
11	6349.1349	150	110	-46.61	-13.00	33.61	Pass	Vertical
12	9700.5701	150	181	-42.19	-13.00	29.19	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20600
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	140.0200	150	8	-80.50	-13.00	67.50	Pass	Horizontal
2	208.9038	150	192	-79.84	-13.00	66.84	Pass	Horizontal
3	440.9742	150	261	-78.32	-13.00	65.32	Pass	Horizontal
4	625.1170	150	206	-73.91	-13.00	60.91	Pass	Horizontal
5	687.5975	150	219	-73.14	-13.00	60.14	Pass	Horizontal
6	742.5105	150	135	-69.65	-13.00	56.65	Pass	Horizontal
7	1688.0000	150	65	-53.91	-13.00	40.91	Pass	Horizontal
8	2532.0000	150	0	-50.00	-13.00	37.00	Pass	Horizontal
9	3027.0014	150	20	-46.54	-13.00	33.54	Pass	Horizontal
10	3376.0000	150	252	-50.53	-13.00	37.53	Pass	Horizontal
11	6374.4187	150	134	-47.17	-13.00	34.17	Pass	Horizontal
12	11792.6896	150	88	-41.50	-13.00	28.50	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20600
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	51.1502	150	234	-66.32	-13.00	53.32	Pass	Vertical
2	95.0030	150	50	-79.61	-13.00	66.61	Pass	Vertical
3	140.0200	150	0	-76.66	-13.00	63.66	Pass	Vertical
4	208.9038	150	205	-69.88	-13.00	56.88	Pass	Vertical
5	411.4803	150	332	-76.74	-13.00	63.74	Pass	Vertical
6	742.5105	150	22	-64.09	-13.00	51.09	Pass	Vertical
7	1320.2320	150	359	-49.01	-13.00	36.01	Pass	Vertical
8	1688.0000	150	219	-52.99	-13.00	39.99	Pass	Vertical
9	2532.0000	150	107	-48.34	-13.00	35.34	Pass	Vertical
10	3376.0000	150	134	-49.99	-13.00	36.99	Pass	Vertical
11	6387.1694	150	360	-47.77	-13.00	34.77	Pass	Vertical
12	11809.9405	150	205	-41.29	-13.00	28.29	Pass	Vertical

16QAM

Mode:	LTE Traffic		
Band:	5	Channel:	20407
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	41.0602	150	261	-83.01	-13.00	70.01	Pass	Horizontal
2	71.9124	150	205	-83.45	-13.00	70.45	Pass	Horizontal
3	162.5285	150	192	-84.45	-13.00	71.45	Pass	Horizontal
4	315.6251	150	50	-81.33	-13.00	68.33	Pass	Horizontal
5	534.8890	150	290	-76.98	-13.00	63.98	Pass	Horizontal
6	633.0726	150	134	-75.09	-13.00	62.09	Pass	Horizontal
7	1136.6137	150	150	-49.75	-13.00	36.75	Pass	Horizontal
8	1649.4000	150	290	-51.29	-13.00	38.29	Pass	Horizontal
9	2474.1000	150	219	-48.85	-13.00	35.85	Pass	Horizontal
10	3298.8000	150	345	-48.30	-13.00	35.30	Pass	Horizontal
11	5808.1404	150	274	-48.20	-13.00	35.20	Pass	Horizontal
12	8945.5473	150	135	-43.10	-13.00	30.10	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20407
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.5827	150	359	-72.70	-13.00	59.70	Pass	Vertical
2	94.8090	150	261	-78.61	-13.00	65.61	Pass	Vertical
3	159.0358	150	277	-80.65	-13.00	67.65	Pass	Vertical
4	250.0400	150	92	-81.96	-13.00	68.96	Pass	Vertical
5	381.4043	150	134	-79.40	-13.00	66.40	Pass	Vertical
6	547.6955	150	359	-77.00	-13.00	64.00	Pass	Vertical
7	1029.4029	150	21	-48.20	-13.00	35.20	Pass	Vertical
8	1649.4000	150	290	-49.69	-13.00	36.69	Pass	Vertical
9	2474.1000	150	219	-47.04	-13.00	34.04	Pass	Vertical
10	3298.8000	150	274	-46.87	-13.00	33.87	Pass	Vertical
11	6269.4135	150	252	-47.61	-13.00	34.61	Pass	Vertical
12	11285.6643	150	228	-42.09	-13.00	29.09	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	54.4489	150	52	-80.32	-13.00	67.32	Pass	Horizontal
2	120.0340	150	39	-81.03	-13.00	68.03	Pass	Horizontal
3	178.4397	150	359	-84.96	-13.00	71.96	Pass	Horizontal
4	256.6373	150	26	-83.16	-13.00	70.16	Pass	Horizontal
5	455.9152	150	237	-78.31	-13.00	65.31	Pass	Horizontal
6	658.2977	150	39	-75.34	-13.00	62.34	Pass	Horizontal
7	1064.6315	150	81	-50.56	-13.00	37.56	Pass	Horizontal
8	1673.0000	150	359	-50.57	-13.00	37.57	Pass	Horizontal
9	2506.5000	150	264	-49.48	-13.00	36.48	Pass	Horizontal
10	3346.0000	150	39	-49.29	-13.00	36.29	Pass	Horizontal
11	4617.0117	150	250	-48.74	-13.00	35.74	Pass	Horizontal
12	8937.9188	150	305	-43.30	-13.00	30.30	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	38.5377	150	308	-77.32	-13.00	64.32	Pass	Vertical
2	95.3911	150	1	-79.47	-13.00	66.47	Pass	Vertical
3	170.0960	150	295	-80.99	-13.00	67.99	Pass	Vertical
4	256.6373	150	1	-81.74	-13.00	68.74	Pass	Vertical
5	374.2248	150	338	-80.02	-13.00	67.02	Pass	Vertical
6	556.6213	150	96	-76.93	-13.00	63.93	Pass	Vertical
7	1195.0695	150	295	-49.89	-13.00	36.89	Pass	Vertical
8	1673.0000	150	359	-50.89	-13.00	37.89	Pass	Vertical
9	2506.5000	150	124	-48.31	-13.00	35.31	Pass	Vertical
10	3346.0000	150	1	-49.08	-13.00	36.08	Pass	Vertical
11	5500.7001	150	68	-48.20	-13.00	35.20	Pass	Vertical
12	8134.1384	150	322	-43.59	-13.00	30.59	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20600
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	46.2993	150	94	-82.15	-13.00	69.15	Pass	Horizontal
2	91.3163	150	278	-80.42	-13.00	67.42	Pass	Horizontal
3	175.5291	150	334	-83.74	-13.00	70.74	Pass	Horizontal
4	255.2791	150	25	-82.56	-13.00	69.56	Pass	Horizontal
5	340.6561	150	291	-78.83	-13.00	65.83	Pass	Horizontal
6	574.4729	150	359	-75.98	-13.00	62.98	Pass	Horizontal
7	1195.2195	150	178	-48.68	-13.00	35.68	Pass	Horizontal
8	1696.6000	150	207	-51.71	-13.00	38.71	Pass	Horizontal
9	2544.9000	150	38	-47.93	-13.00	34.93	Pass	Horizontal
10	3393.2000	150	360	-47.29	-13.00	34.29	Pass	Horizontal
11	5541.8771	150	360	-48.05	-13.00	35.05	Pass	Horizontal
12	9202.0601	150	42	-41.83	-13.00	28.83	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20600
Remark:	1.4MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	61.2402	150	277	-74.44	-13.00	61.44	Pass	Vertical
2	106.8394	150	248	-82.28	-13.00	69.28	Pass	Vertical
3	175.9172	150	66	-81.08	-13.00	68.08	Pass	Vertical
4	380.8222	150	51	-79.69	-13.00	66.69	Pass	Vertical
5	514.9030	150	319	-78.20	-13.00	65.20	Pass	Vertical
6	673.0446	150	346	-72.63	-13.00	59.63	Pass	Vertical
7	1402.0402	150	359	-49.33	-13.00	36.33	Pass	Vertical
8	1696.6000	150	220	-51.03	-13.00	38.03	Pass	Vertical
9	2544.9000	150	193	-48.30	-13.00	35.30	Pass	Vertical
10	3393.2000	150	252	-48.33	-13.00	35.33	Pass	Vertical
11	5051.3526	150	112	-48.19	-13.00	35.19	Pass	Vertical
12	9114.3057	150	298	-42.61	-13.00	29.61	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20415
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.7768	150	177	-84.02	-13.00	71.02	Pass	Horizontal
2	71.9124	150	177	-84.50	-13.00	71.50	Pass	Horizontal
3	177.0814	150	359	-85.50	-13.00	72.50	Pass	Horizontal
4	250.0400	150	276	-84.93	-13.00	71.93	Pass	Horizontal
5	370.3441	150	234	-80.89	-13.00	67.89	Pass	Horizontal
6	659.2679	150	319	-76.48	-13.00	63.48	Pass	Horizontal
7	1138.6139	150	50	-51.32	-13.00	38.32	Pass	Horizontal
8	1651.0000	150	50	-54.20	-13.00	41.20	Pass	Horizontal
9	2476.5000	150	332	-49.63	-13.00	36.63	Pass	Horizontal
10	3302.0000	150	299	-48.35	-13.00	35.35	Pass	Horizontal
11	4455.0728	150	206	-51.21	-13.00	38.21	Pass	Horizontal
12	8159.5080	150	67	-45.13	-13.00	32.13	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20415
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	42.4185	150	150	-71.51	-13.00	58.51	Pass	Vertical
2	77.5395	150	234	-77.54	-13.00	64.54	Pass	Vertical
3	178.0516	150	248	-80.00	-13.00	67.00	Pass	Vertical
4	337.9396	150	8	-79.84	-13.00	66.84	Pass	Vertical
5	536.0532	150	0	-77.21	-13.00	64.21	Pass	Vertical
6	672.2685	150	163	-72.58	-13.00	59.58	Pass	Vertical
7	1081.4081	150	248	-50.03	-13.00	37.03	Pass	Vertical
8	1651.0000	150	319	-51.82	-13.00	38.82	Pass	Vertical
9	2476.5000	150	163	-48.33	-13.00	35.33	Pass	Vertical
10	3302.0000	150	42	-51.93	-13.00	38.93	Pass	Vertical
11	5515.6258	150	42	-48.30	-13.00	35.30	Pass	Vertical
12	10221.3611	150	134	-42.69	-13.00	29.69	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.7768	150	276	-83.72	-13.00	70.72	Pass	Horizontal
2	71.9124	150	334	-85.39	-13.00	72.39	Pass	Horizontal
3	176.4993	150	80	-85.01	-13.00	72.01	Pass	Horizontal
4	410.1220	150	108	-80.05	-13.00	67.05	Pass	Horizontal
5	587.6675	150	150	-77.84	-13.00	64.84	Pass	Horizontal
6	687.5975	150	359	-73.90	-13.00	60.90	Pass	Horizontal
7	1101.0601	150	65	-51.54	-13.00	38.54	Pass	Horizontal
8	1673.0000	150	52	-53.95	-13.00	40.95	Pass	Horizontal
9	2506.5000	150	207	-49.52	-13.00	36.52	Pass	Horizontal
10	3346.0000	150	192	-50.50	-13.00	37.50	Pass	Horizontal
11	5911.9912	150	10	-48.91	-13.00	35.91	Pass	Horizontal
12	9184.6935	150	38	-44.17	-13.00	31.17	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.1946	150	55	-73.62	-13.00	60.62	Pass	Vertical
2	103.9288	150	296	-81.00	-13.00	68.00	Pass	Vertical
3	250.0400	150	12	-82.05	-13.00	69.05	Pass	Vertical
4	350.1640	150	124	-79.54	-13.00	66.54	Pass	Vertical
5	459.2138	150	81	-77.89	-13.00	64.89	Pass	Vertical
6	671.6863	150	152	-72.50	-13.00	59.50	Pass	Vertical
7	1156.2906	150	339	-50.60	-13.00	37.60	Pass	Vertical
8	1673.0000	150	1	-49.78	-13.00	36.78	Pass	Vertical
9	2506.5000	150	166	-48.32	-13.00	35.32	Pass	Vertical
10	3346.0000	150	280	-47.92	-13.00	34.92	Pass	Vertical
11	4519.4769	150	152	-48.65	-13.00	35.65	Pass	Vertical
12	8789.8540	150	224	-43.52	-13.00	30.52	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20635
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	44.9410	150	290	-79.41	-13.00	66.41	Pass	Horizontal
2	117.5115	150	38	-78.90	-13.00	65.90	Pass	Horizontal
3	243.8308	150	206	-82.67	-13.00	69.67	Pass	Horizontal
4	312.5205	150	122	-79.59	-13.00	66.59	Pass	Horizontal
5	550.0240	150	346	-75.49	-13.00	62.49	Pass	Horizontal
6	953.4307	150	9	-68.78	-13.00	55.78	Pass	Horizontal
7	1153.8154	150	80	-48.44	-13.00	35.44	Pass	Horizontal
8	1695.0000	150	234	-49.85	-13.00	36.85	Pass	Horizontal
9	2542.5000	150	93	-48.28	-13.00	35.28	Pass	Horizontal
10	3390.0000	150	134	-45.88	-13.00	32.88	Pass	Horizontal
11	5589.1295	150	252	-46.15	-13.00	33.15	Pass	Horizontal
12	8395.0198	150	360	-41.60	-13.00	28.60	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20635
Remark:	3MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	44.9410	150	359	-74.39	-13.00	61.39	Pass	Vertical
2	101.9884	150	162	-81.31	-13.00	68.31	Pass	Vertical
3	158.2597	150	0	-82.69	-13.00	69.69	Pass	Vertical
4	250.0400	150	175	-82.71	-13.00	69.71	Pass	Vertical
5	392.6585	150	47	-81.00	-13.00	68.00	Pass	Vertical
6	514.7089	150	247	-79.08	-13.00	66.08	Pass	Vertical
7	1023.4023	150	90	-50.45	-13.00	37.45	Pass	Vertical
8	1695.0000	150	20	-52.01	-13.00	39.01	Pass	Vertical
9	2542.5000	150	20	-48.62	-13.00	35.62	Pass	Vertical
10	3390.0000	150	90	-49.39	-13.00	36.39	Pass	Vertical
11	5920.6460	150	90	-49.22	-13.00	36.22	Pass	Vertical
12	11350.1675	150	1	-44.04	-13.00	31.04	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20425
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.5535	150	304	-79.31	-13.00	66.31	Pass	Horizontal
2	123.5267	150	290	-79.83	-13.00	66.83	Pass	Horizontal
3	233.5467	150	37	-82.14	-13.00	69.14	Pass	Horizontal
4	330.7602	150	333	-78.69	-13.00	65.69	Pass	Horizontal
5	447.3775	150	8	-77.96	-13.00	64.96	Pass	Horizontal
6	657.9096	150	79	-74.63	-13.00	61.63	Pass	Horizontal
7	1044.4044	150	121	-49.04	-13.00	36.04	Pass	Horizontal
8	1653.0000	150	346	-51.36	-13.00	38.36	Pass	Horizontal
9	2479.5000	150	333	-46.60	-13.00	33.60	Pass	Horizontal
10	3306.0000	150	298	-45.35	-13.00	32.35	Pass	Horizontal
11	4472.3236	150	113	-47.61	-13.00	34.61	Pass	Horizontal
12	8701.7851	150	113	-42.44	-13.00	29.44	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20425
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	42.6125	150	332	-72.90	-13.00	59.90	Pass	Vertical
2	91.7043	150	359	-80.01	-13.00	67.01	Pass	Vertical
3	176.1112	150	134	-81.56	-13.00	68.56	Pass	Vertical
4	270.0260	150	107	-80.26	-13.00	67.26	Pass	Vertical
5	360.0600	150	22	-80.55	-13.00	67.55	Pass	Vertical
6	554.2929	150	0	-77.30	-13.00	64.30	Pass	Vertical
7	1177.2177	150	332	-50.26	-13.00	37.26	Pass	Vertical
8	1653.0000	150	36	-51.39	-13.00	38.39	Pass	Vertical
9	2479.5000	150	359	-48.33	-13.00	35.33	Pass	Vertical
10	3306.0000	150	252	-48.59	-13.00	35.59	Pass	Vertical
11	5050.6025	150	113	-48.77	-13.00	35.77	Pass	Vertical
12	7481.4741	150	360	-45.76	-13.00	32.76	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.7768	150	117	-82.41	-13.00	69.41	Pass	Horizontal
2	69.9720	150	75	-83.22	-13.00	70.22	Pass	Horizontal
3	161.1702	150	159	-84.70	-13.00	71.70	Pass	Horizontal
4	393.2406	150	358	-79.69	-13.00	66.69	Pass	Horizontal
5	536.6353	150	90	-76.73	-13.00	63.73	Pass	Horizontal
6	710.4941	150	146	-74.43	-13.00	61.43	Pass	Horizontal
7	1163.3413	150	33	-50.90	-13.00	37.90	Pass	Horizontal
8	1673.0000	150	48	-50.57	-13.00	37.57	Pass	Horizontal
9	2506.5000	150	33	-46.98	-13.00	33.98	Pass	Horizontal
10	3346.0000	150	19	-49.73	-13.00	36.73	Pass	Horizontal
11	5581.7832	150	174	-48.22	-13.00	35.22	Pass	Horizontal
12	9182.3432	150	0	-43.38	-13.00	30.38	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	42.2244	150	166	-73.20	-13.00	60.20	Pass	Vertical
2	76.7634	150	12	-76.38	-13.00	63.38	Pass	Vertical
3	116.5413	150	96	-81.38	-13.00	68.38	Pass	Vertical
4	250.0400	150	308	-81.70	-13.00	68.70	Pass	Vertical
5	367.4335	150	26	-79.25	-13.00	66.25	Pass	Vertical
6	617.5495	150	308	-74.98	-13.00	61.98	Pass	Vertical
7	1197.4197	150	12	-49.85	-13.00	36.85	Pass	Vertical
8	1673.0000	150	1	-52.58	-13.00	39.58	Pass	Vertical
9	2506.5000	150	354	-50.79	-13.00	37.79	Pass	Vertical
10	3346.0000	150	139	-49.40	-13.00	36.40	Pass	Vertical
11	5530.0780	150	308	-48.14	-13.00	35.14	Pass	Vertical
12	8926.1676	150	308	-42.11	-13.00	29.11	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20625
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.7768	150	249	-82.18	-13.00	69.18	Pass	Horizontal
2	88.4057	150	165	-82.59	-13.00	69.59	Pass	Horizontal
3	194.7389	150	109	-84.81	-13.00	71.81	Pass	Horizontal
4	305.7291	150	346	-80.81	-13.00	67.81	Pass	Horizontal
5	479.9760	150	304	-78.09	-13.00	65.09	Pass	Horizontal
6	775.8852	150	319	-72.99	-13.00	59.99	Pass	Horizontal
7	1464.4464	150	346	-49.48	-13.00	36.48	Pass	Horizontal
8	1693.0000	150	93	-52.36	-13.00	39.36	Pass	Horizontal
9	2539.5000	150	93	-46.77	-13.00	33.77	Pass	Horizontal
10	3386.0000	150	1	-47.49	-13.00	34.49	Pass	Horizontal
11	5624.3812	150	360	-47.88	-13.00	34.88	Pass	Horizontal
12	8930.5465	150	134	-42.75	-13.00	29.75	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20625
Remark:	5MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	64.3449	150	332	-77.37	-13.00	64.37	Pass	Vertical
2	120.0340	150	108	-83.29	-13.00	70.29	Pass	Vertical
3	250.0400	150	163	-83.35	-13.00	70.35	Pass	Vertical
4	369.5679	150	219	-81.19	-13.00	68.19	Pass	Vertical
5	507.5295	150	319	-79.16	-13.00	66.16	Pass	Vertical
6	676.3433	150	290	-74.45	-13.00	61.45	Pass	Vertical
7	1195.0195	150	206	-51.48	-13.00	38.48	Pass	Vertical
8	1693.0000	150	79	-53.86	-13.00	40.86	Pass	Vertical
9	2539.5000	150	219	-49.12	-13.00	36.12	Pass	Vertical
10	3386.0000	150	227	-49.74	-13.00	36.74	Pass	Vertical
11	5310.8655	150	252	-50.19	-13.00	37.19	Pass	Vertical
12	10399.1200	150	134	-44.43	-13.00	31.43	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20450
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	64.9270	150	219	-83.63	-13.00	70.63	Pass	Horizontal
2	117.8996	150	235	-83.03	-13.00	70.03	Pass	Horizontal
3	189.1118	150	359	-88.07	-13.00	75.07	Pass	Horizontal
4	303.9828	150	79	-83.25	-13.00	70.25	Pass	Horizontal
5	384.7029	150	164	-81.68	-13.00	68.68	Pass	Horizontal
6	625.1170	150	359	-77.05	-13.00	64.05	Pass	Horizontal
7	1466.2466	150	108	-51.48	-13.00	38.48	Pass	Horizontal
8	1658.0000	150	108	-53.16	-13.00	40.16	Pass	Horizontal
9	2487.0000	150	248	-49.13	-13.00	36.13	Pass	Horizontal
10	3316.0000	150	67	-49.91	-13.00	36.91	Pass	Horizontal
11	5513.3757	150	113	-50.02	-13.00	37.02	Pass	Horizontal
12	9031.0516	150	274	-44.55	-13.00	31.55	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20450
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.0006	150	359	-69.69	-13.00	56.69	Pass	Vertical
2	77.3455	150	37	-76.88	-13.00	63.88	Pass	Vertical
3	120.0340	150	8	-81.28	-13.00	68.28	Pass	Vertical
4	252.7566	150	219	-81.74	-13.00	68.74	Pass	Vertical
5	526.7393	150	359	-77.52	-13.00	64.52	Pass	Vertical
6	687.5975	150	37	-69.39	-13.00	56.39	Pass	Vertical
7	1105.0105	150	234	-49.86	-13.00	36.86	Pass	Vertical
8	1658.0000	150	332	-49.53	-13.00	36.53	Pass	Vertical
9	2487.0000	150	319	-48.61	-13.00	35.61	Pass	Vertical
10	3316.0000	150	113	-47.89	-13.00	34.89	Pass	Vertical
11	4462.5731	150	344	-48.21	-13.00	35.21	Pass	Vertical
12	7245.2123	150	159	-45.18	-13.00	32.18	Pass	Vertical

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	56.0012	150	178	-81.73	-13.00	68.73	Pass	Horizontal
2	124.8850	150	1	-82.85	-13.00	69.85	Pass	Horizontal
3	250.0400	150	109	-84.11	-13.00	71.11	Pass	Horizontal
4	410.5101	150	321	-79.86	-13.00	66.86	Pass	Horizontal
5	576.4133	150	38	-78.62	-13.00	65.62	Pass	Horizontal
6	724.8530	150	10	-75.49	-13.00	62.49	Pass	Horizontal
7	1200.9451	150	221	-51.42	-13.00	38.42	Pass	Horizontal
8	1673.0000	150	306	-52.66	-13.00	39.66	Pass	Horizontal
9	2506.5000	150	1	-50.00	-13.00	37.00	Pass	Horizontal
10	3346.0000	150	94	-50.20	-13.00	37.20	Pass	Horizontal
11	4332.6333	150	278	-50.36	-13.00	37.36	Pass	Horizontal
12	9132.9883	150	278	-44.24	-13.00	31.24	Pass	Horizontal

Mode:	LTE Traffic		
Band:	5	Channel:	20525
Remark:	10MHz		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	64.7329	150	39	-74.91	-13.00	61.91	Pass	Vertical
2	117.5115	150	25	-82.10	-13.00	69.10	Pass	Vertical
3	250.0400	150	139	-80.88	-13.00	67.88	Pass	Vertical
4	329.9840	150	110	-78.68	-13.00	65.68	Pass	Vertical
5	497.8276	150	54	-77.83	-13.00	64.83	Pass	Vertical
6	662.9546	150	39	-73.92	-13.00	60.92	Pass	Vertical
7	1068.1568	150	237	-50.34	-13.00	37.34	Pass	Vertical
8	1673.0000	150	351	-50.37	-13.00	37.37	Pass	Vertical
9	2506.5000	150	195	-46.67	-13.00	33.67	Pass	Vertical
10	3346.0000	150	195	-49.08	-13.00	36.08	Pass	Vertical
11	5682.8433	150	208	-47.35	-13.00	34.35	Pass	Vertical
12	9083.6334	150	12	-41.97	-13.00	28.97	Pass	Vertical

Mode:	LTE Traffic							
Band:	5			Channel:		20600		
Remark:	10MHz							
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.5979	150	93	-80.38	-13.00	67.38	Pass	Horizontal
2	102.9586	150	277	-80.02	-13.00	67.02	Pass	Horizontal
3	175.9172	150	177	-84.68	-13.00	71.68	Pass	Horizontal
4	284.9670	150	108	-81.71	-13.00	68.71	Pass	Horizontal
5	418.0776	150	219	-79.61	-13.00	66.61	Pass	Horizontal
6	675.5671	150	319	-75.01	-13.00	62.01	Pass	Horizontal
7	1237.8238	150	192	-49.52	-13.00	36.52	Pass	Horizontal
8	1688.0000	150	65	-52.22	-13.00	39.22	Pass	Horizontal
9	2532.0000	150	0	-48.41	-13.00	35.41	Pass	Horizontal
10	3376.0000	150	252	-48.91	-13.00	35.91	Pass	Horizontal
11	5706.1353	150	344	-48.24	-13.00	35.24	Pass	Horizontal
12	10211.6106	150	20	-42.61	-13.00	29.61	Pass	Horizontal

Mode:	LTE Traffic							
Band:	5			Channel:		20600		
Remark:	10MHz							
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	46.4933	150	205	-73.91	-13.00	60.91	Pass	Vertical
2	113.0486	150	176	-82.22	-13.00	69.22	Pass	Vertical
3	179.2158	150	346	-80.47	-13.00	67.47	Pass	Vertical
4	233.5467	150	303	-83.38	-13.00	70.38	Pass	Vertical
5	360.0600	150	359	-79.41	-13.00	66.41	Pass	Vertical
6	593.8768	150	346	-74.91	-13.00	61.91	Pass	Vertical
7	1197.2197	150	92	-48.61	-13.00	35.61	Pass	Vertical
8	1688.0000	150	219	-53.86	-13.00	40.86	Pass	Vertical
9	2532.0000	150	107	-47.44	-13.00	34.44	Pass	Vertical
10	3376.0000	150	134	-46.84	-13.00	33.84	Pass	Vertical
11	5820.1410	150	320	-47.99	-13.00	34.99	Pass	Vertical
12	11139.4070	150	344	-42.89	-13.00	29.89	Pass	Vertical

Note:

Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

PHOTOGRAPHS OF TEST SETUP

Test model No.: IO Pro

Radiated spurious emission Test Setup-1(Below 1GHz)

Radiated spurious emission Test Setup-2(Above 1GHz)

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32K00215401 for EUT external and internal photos.

*** End of Report ***