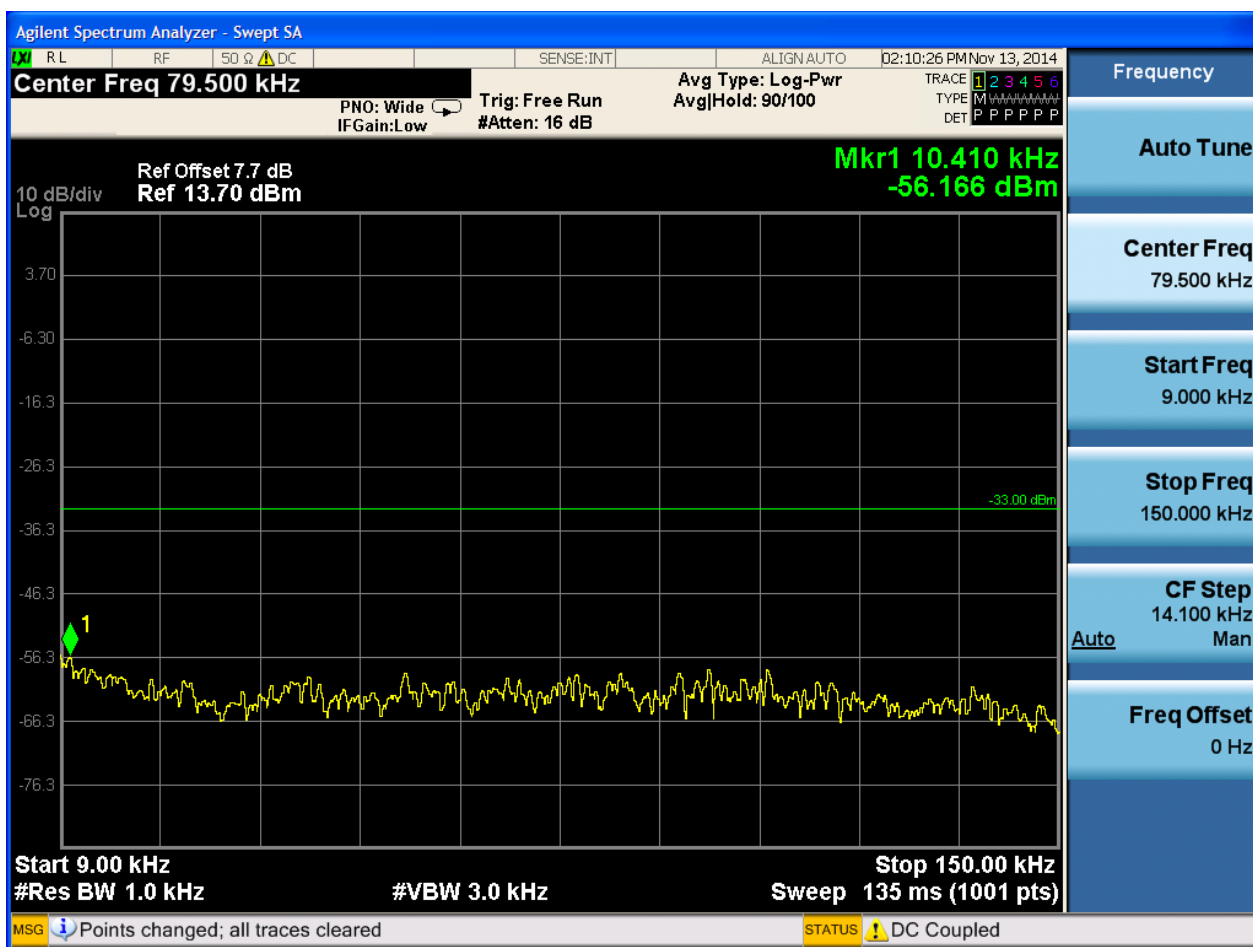


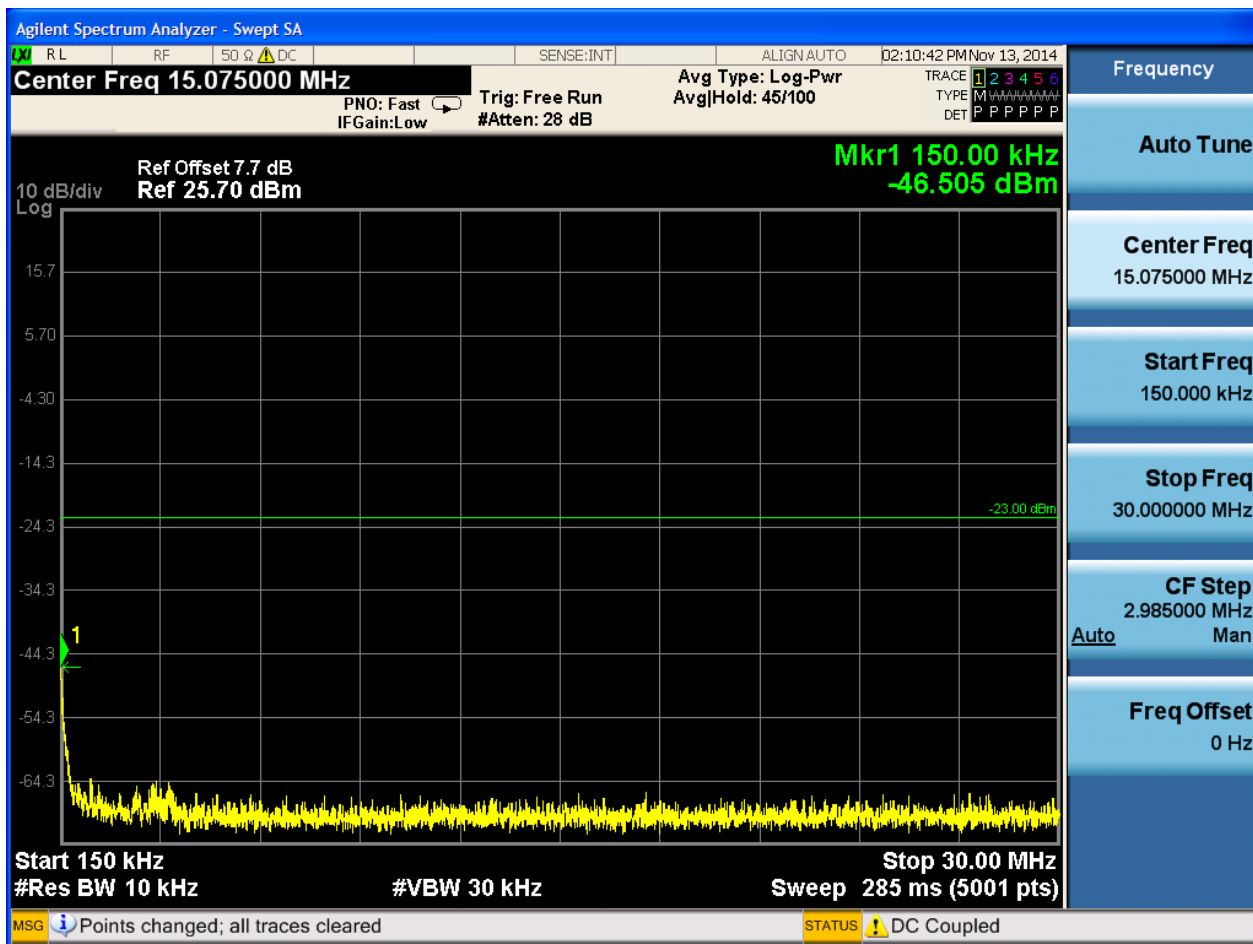


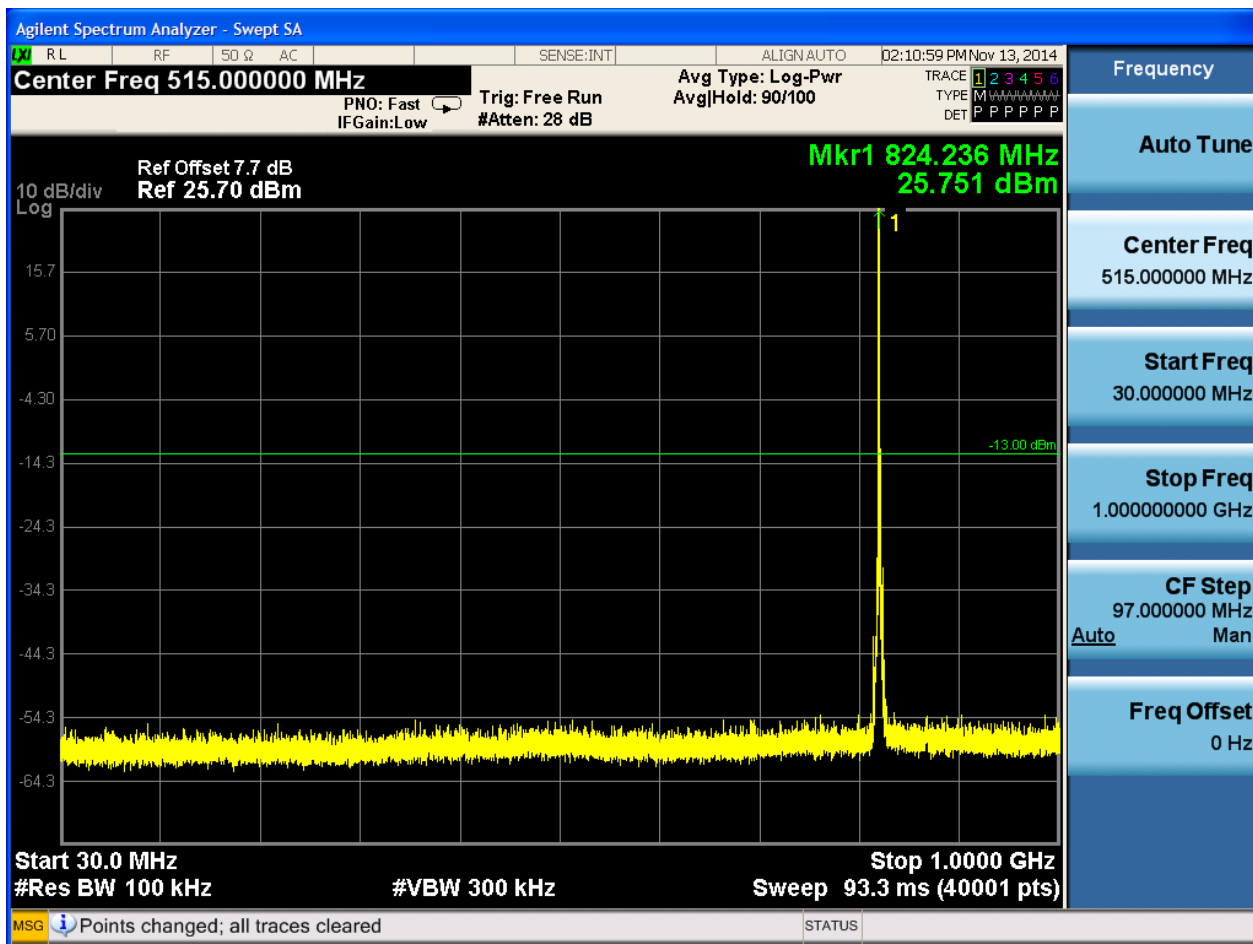
6.1.1.1.2 Test Bandwidth = 3

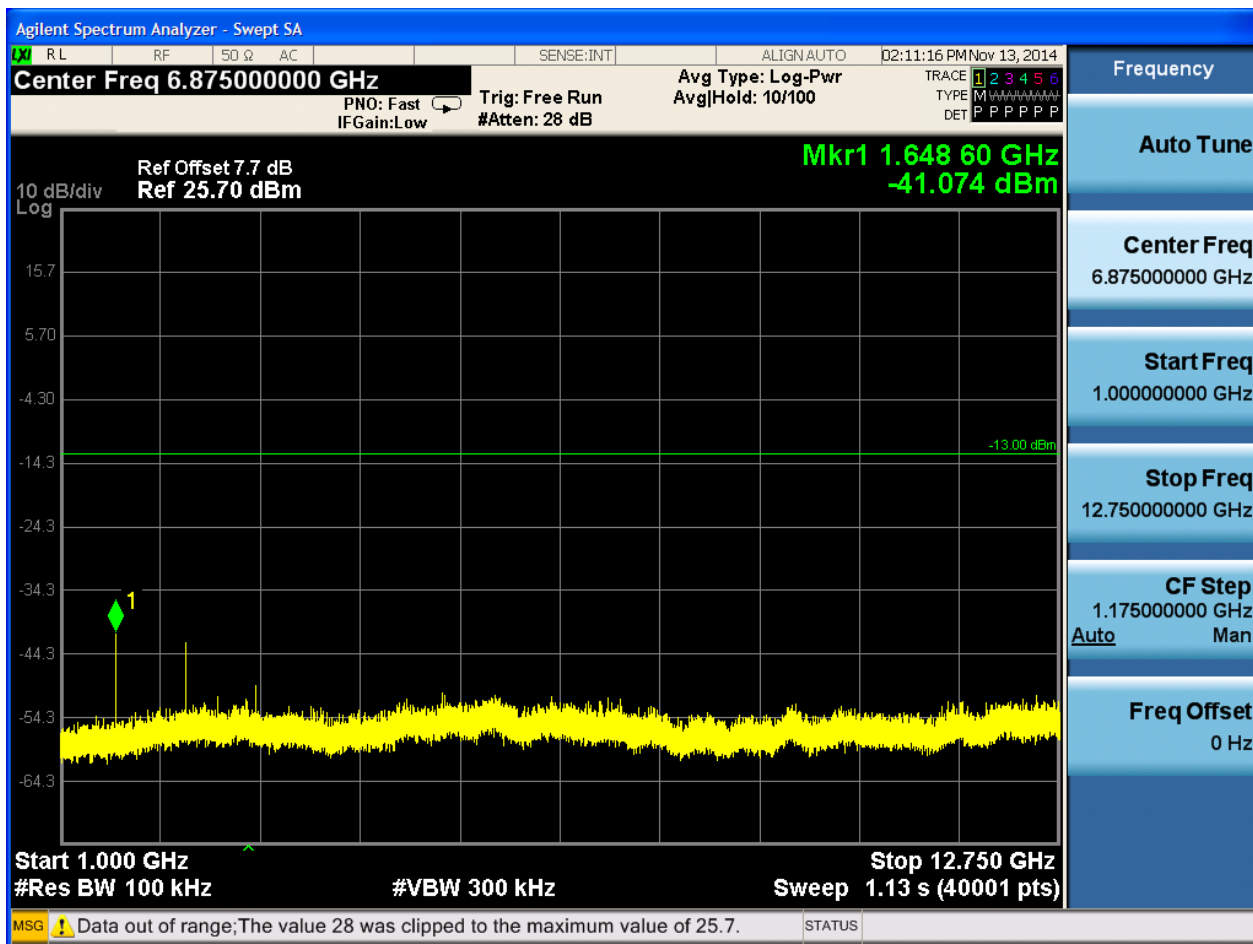
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0





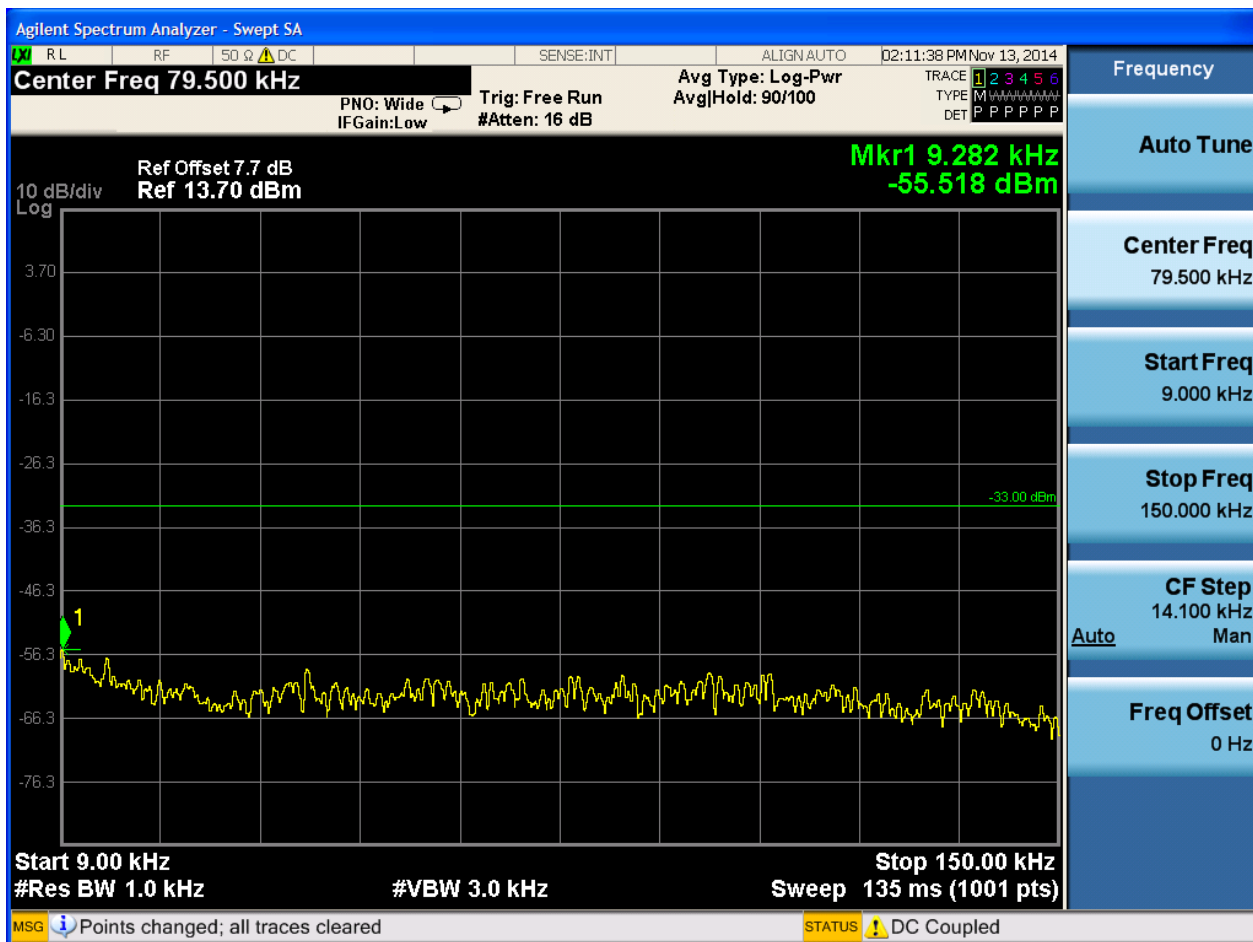


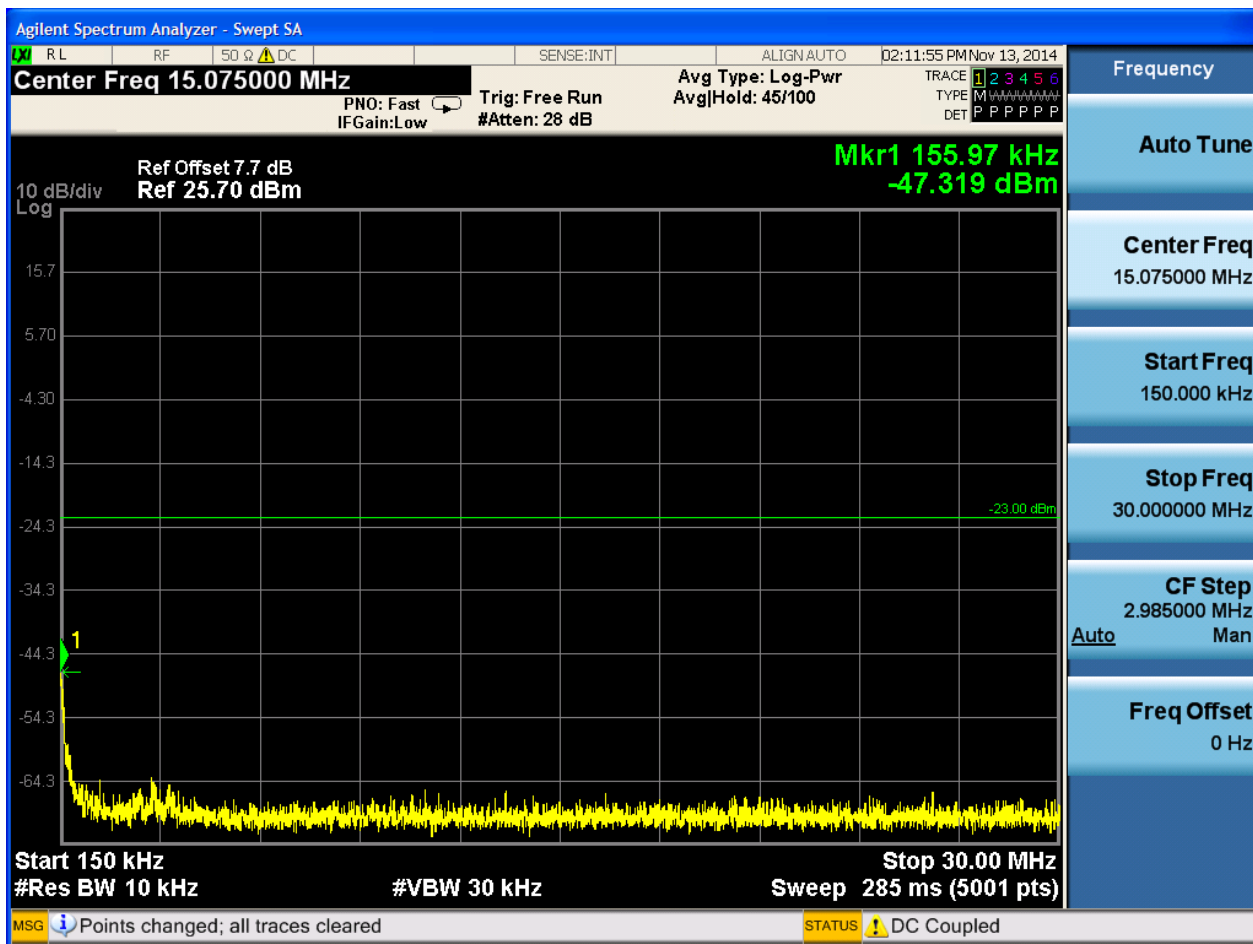


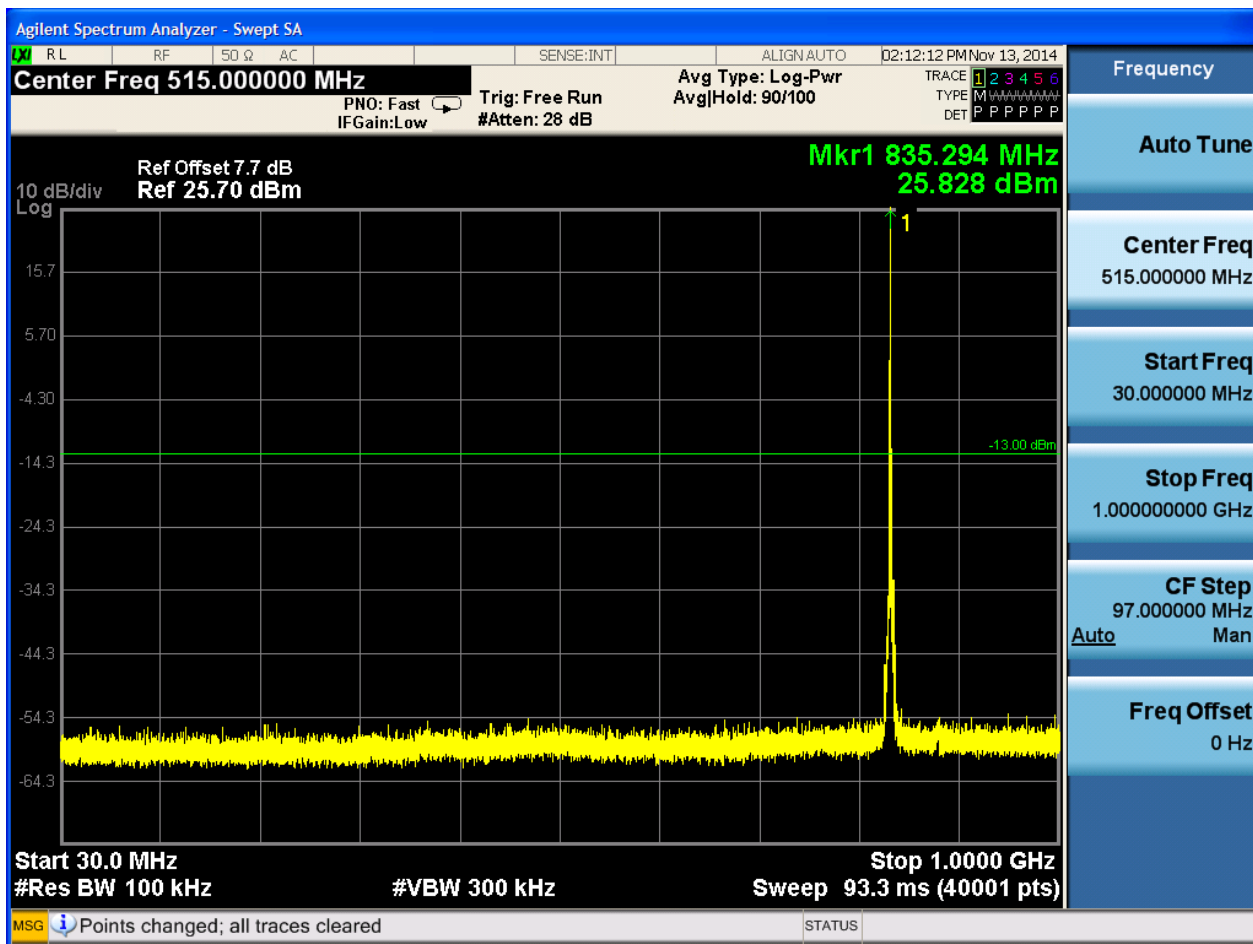


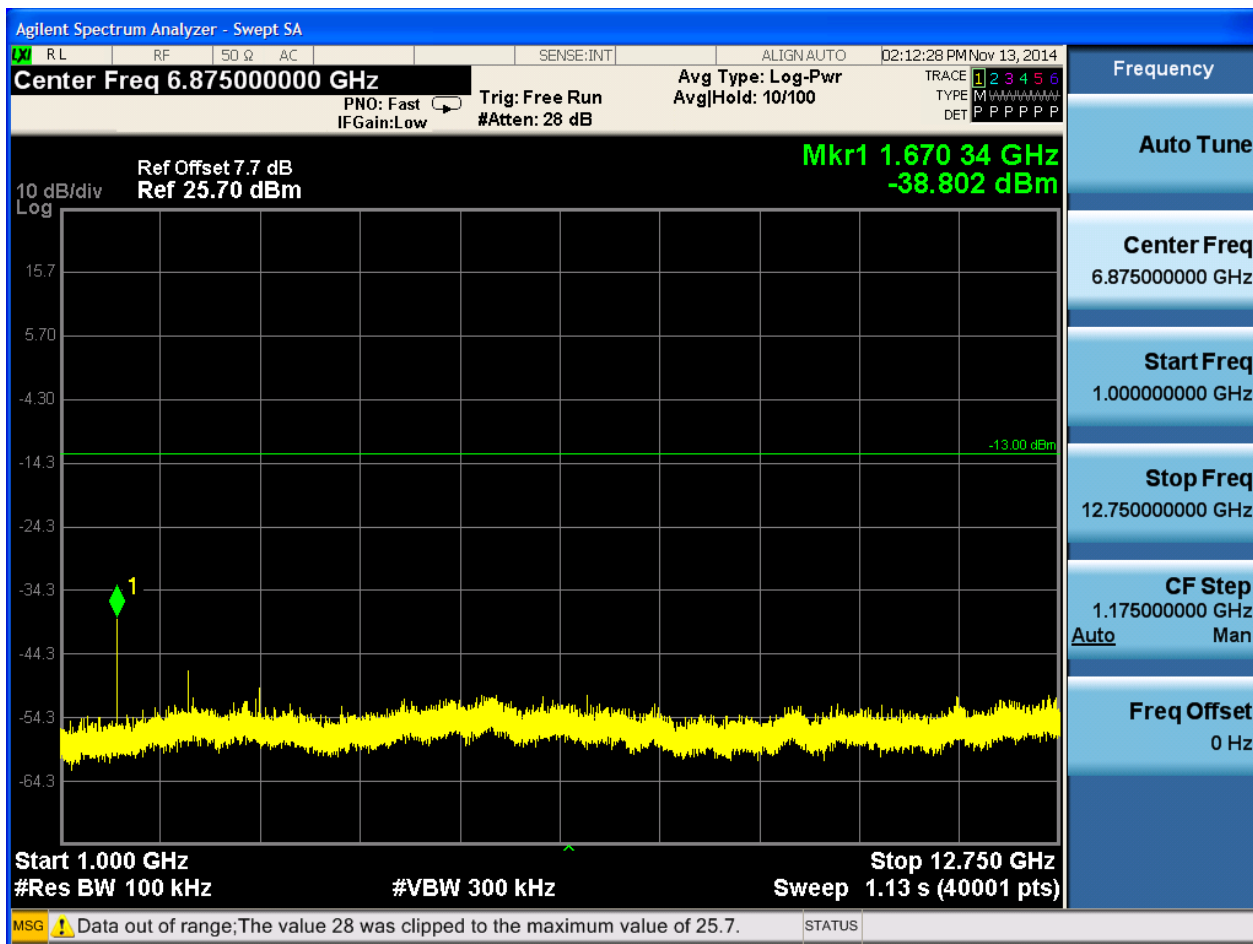
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





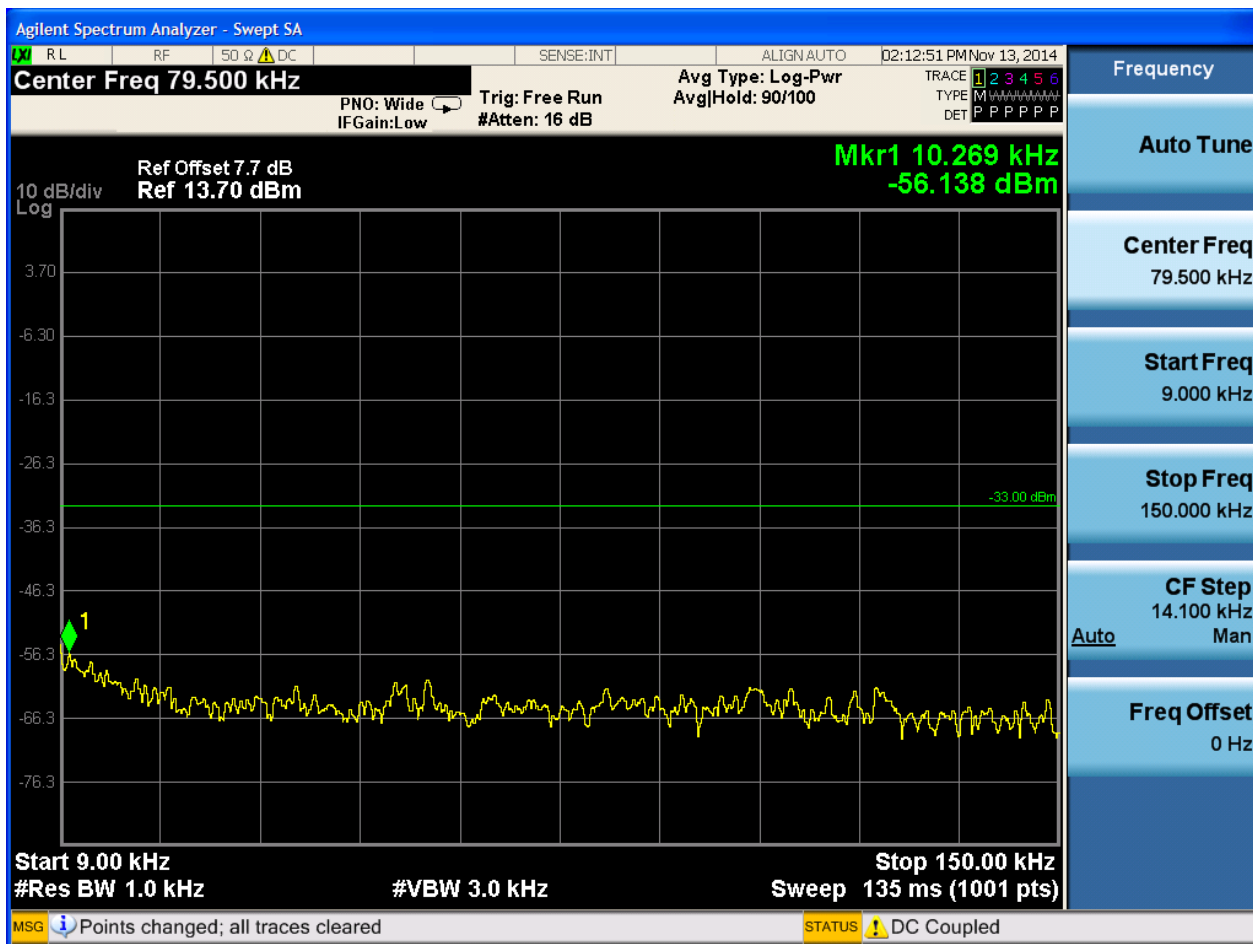


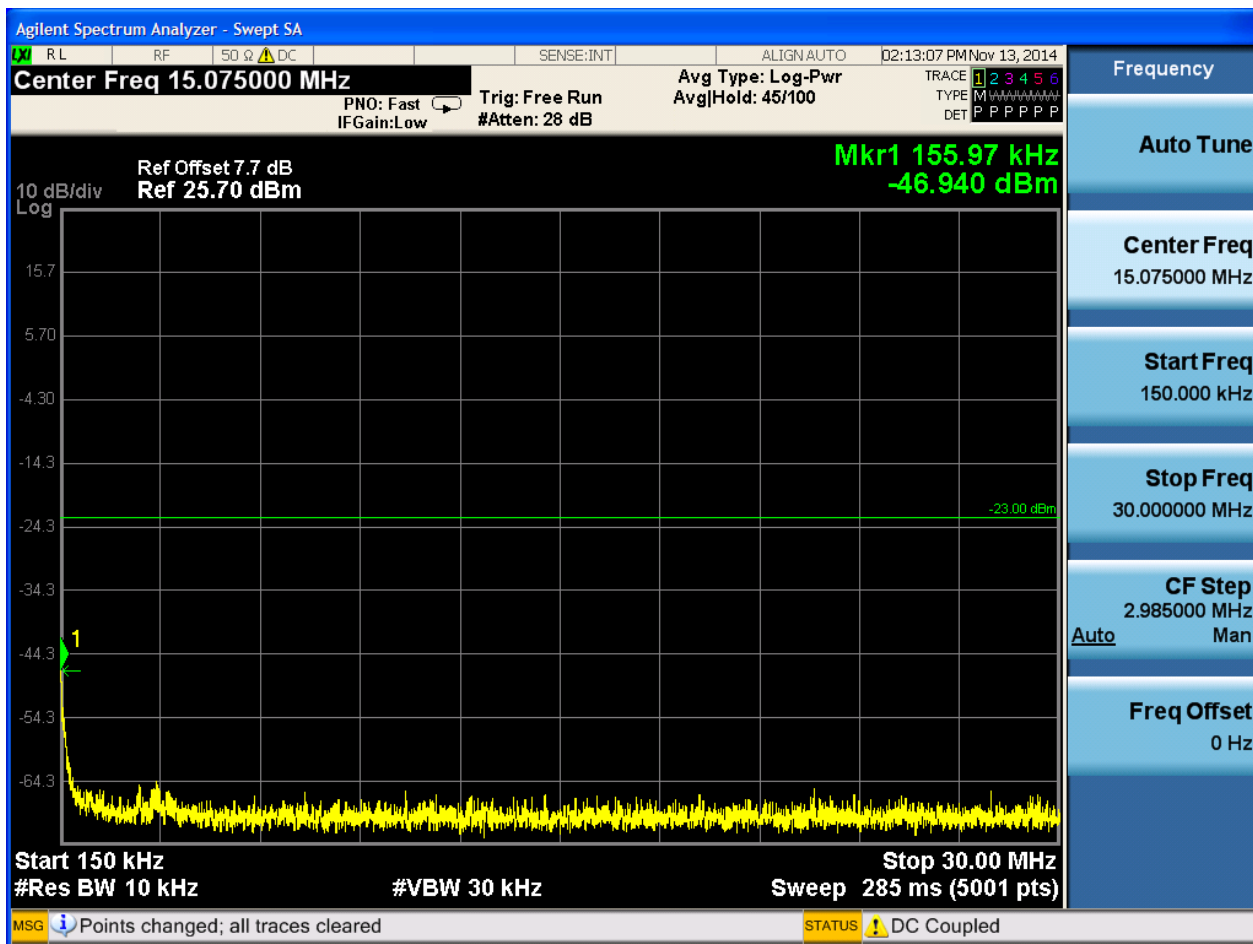


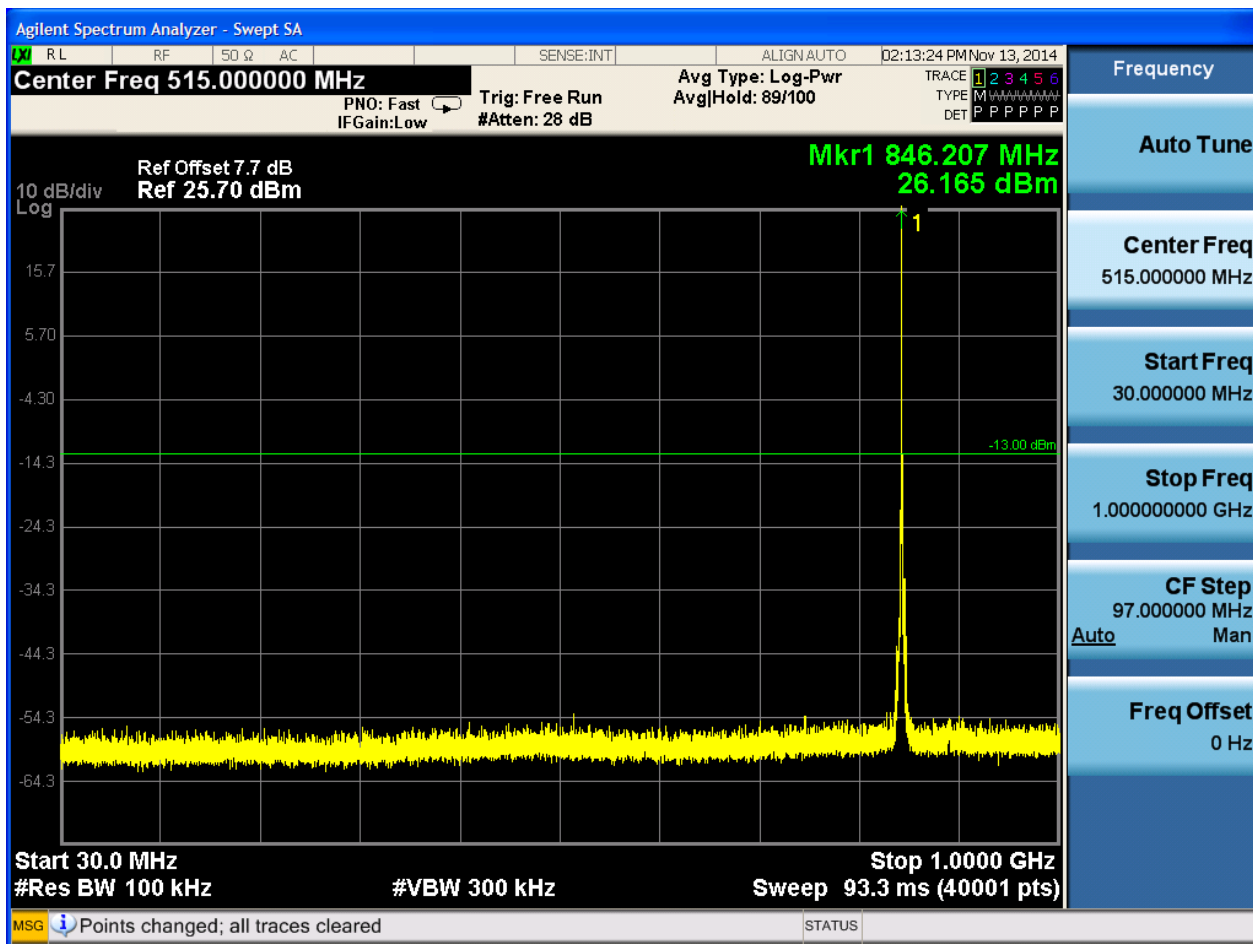


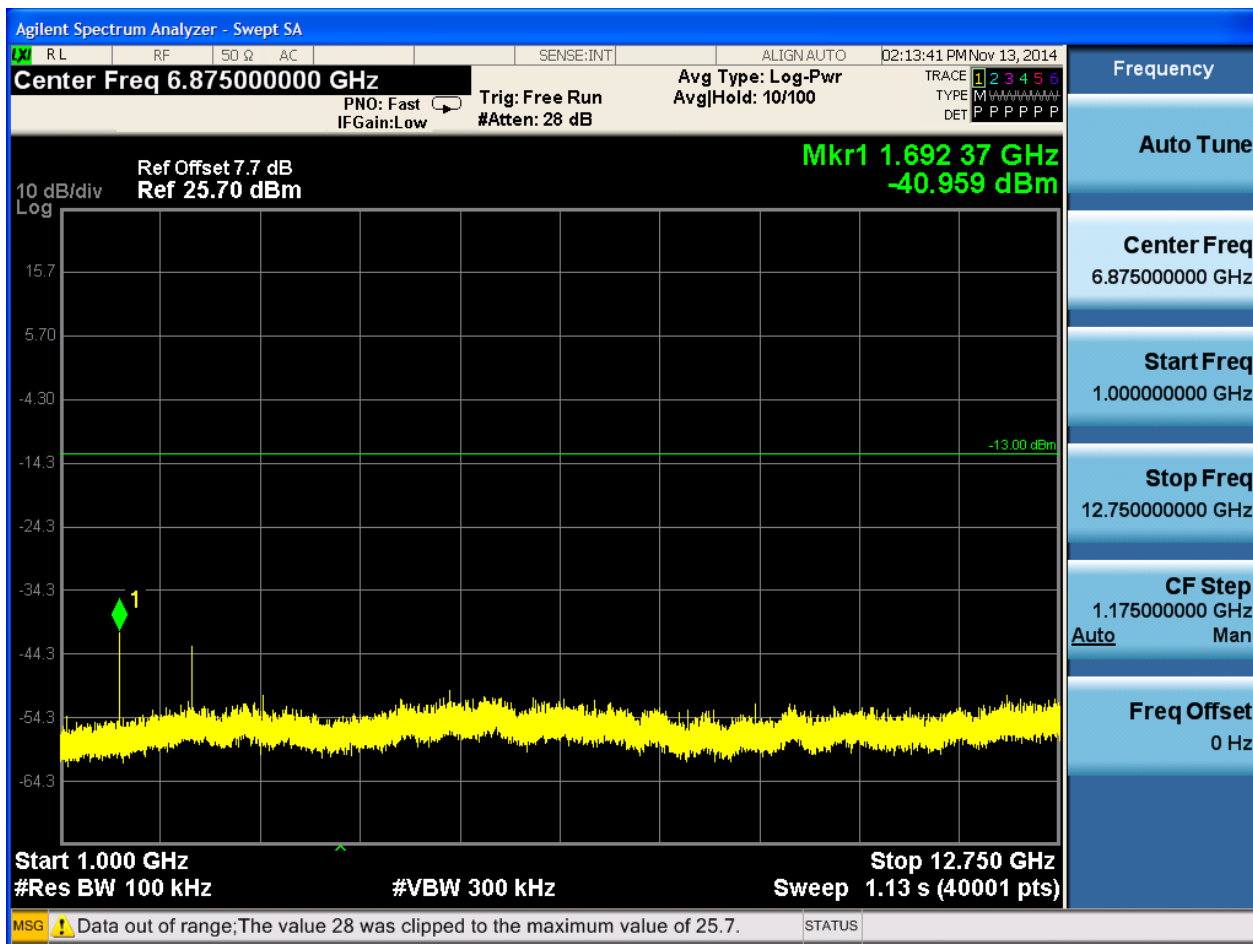
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







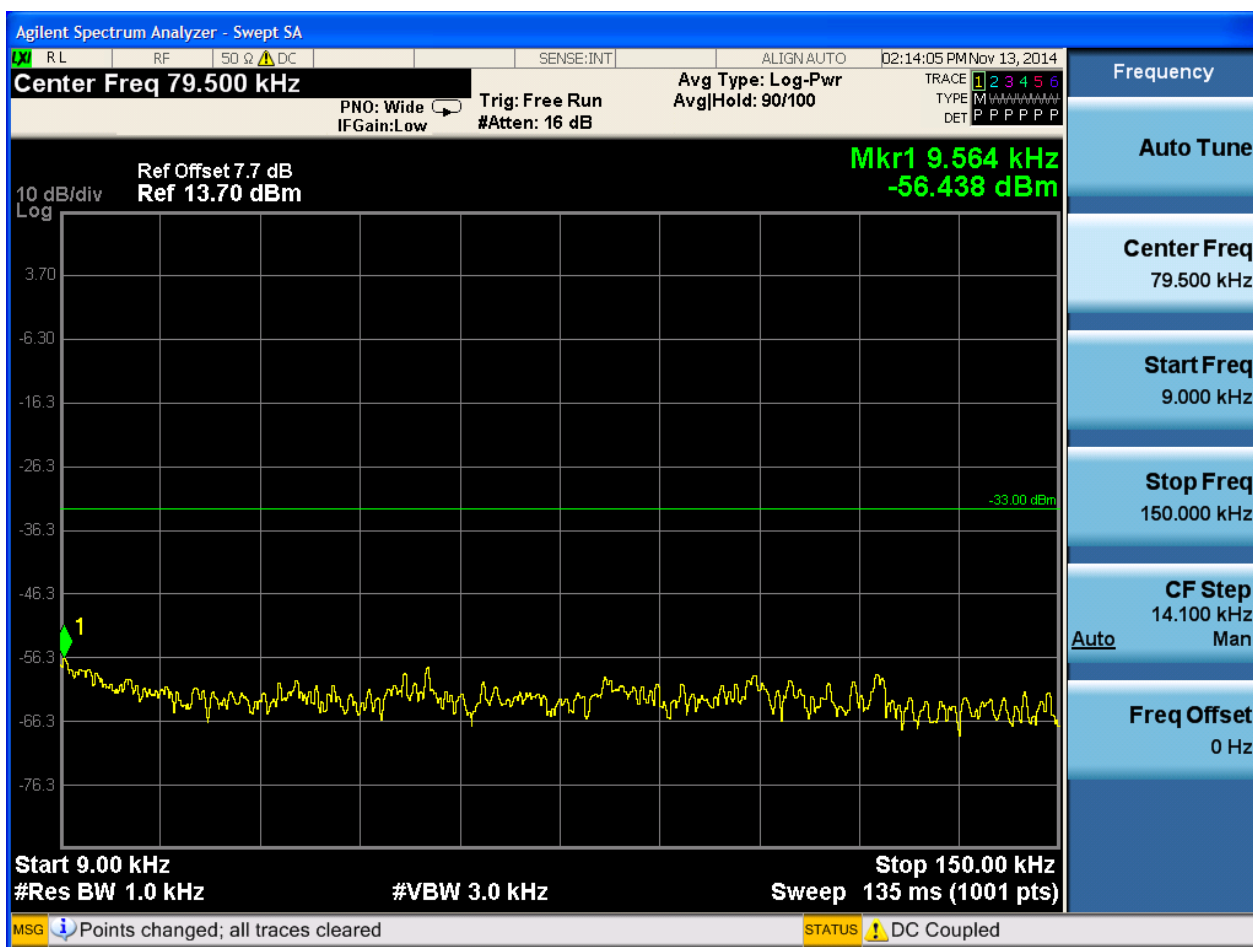


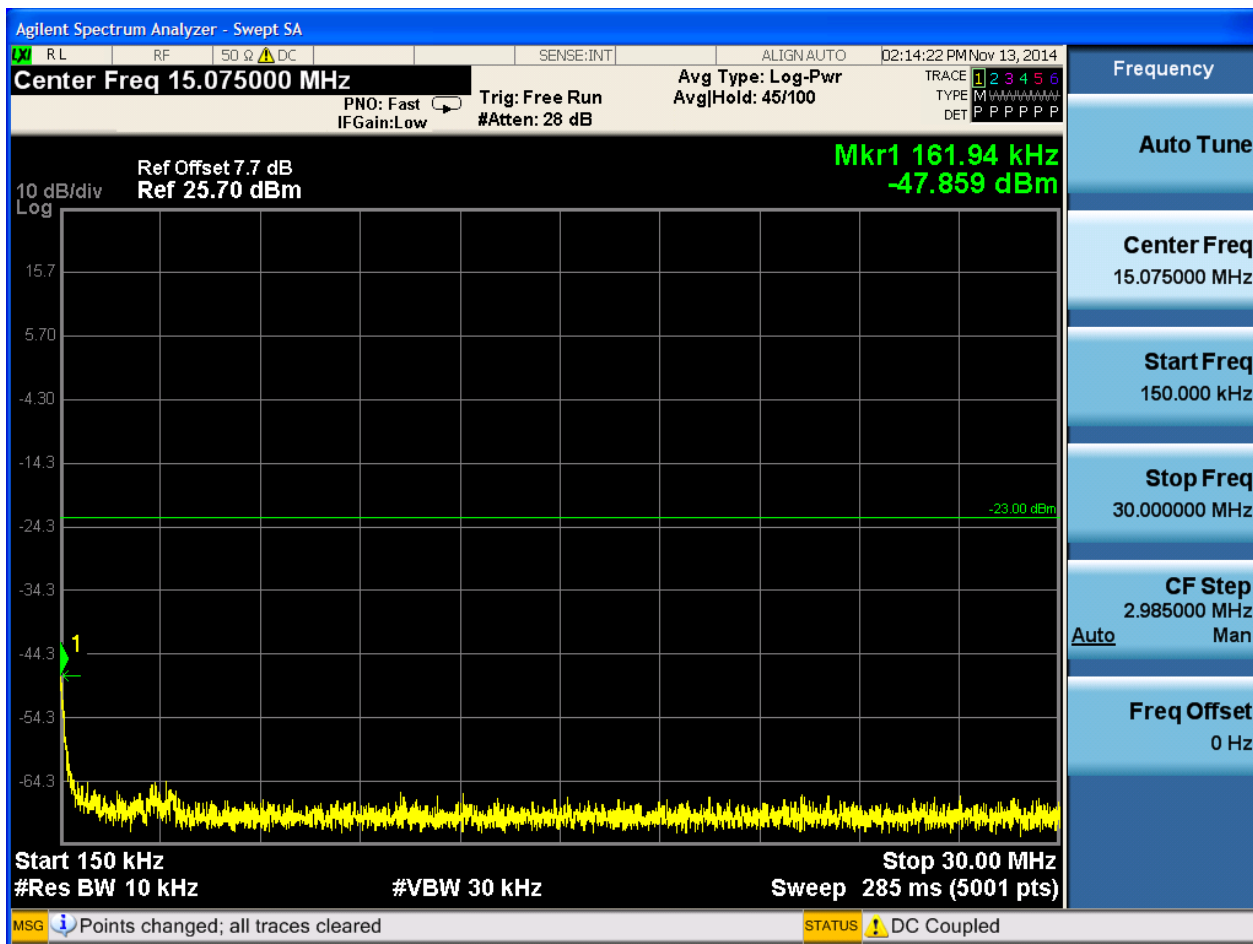


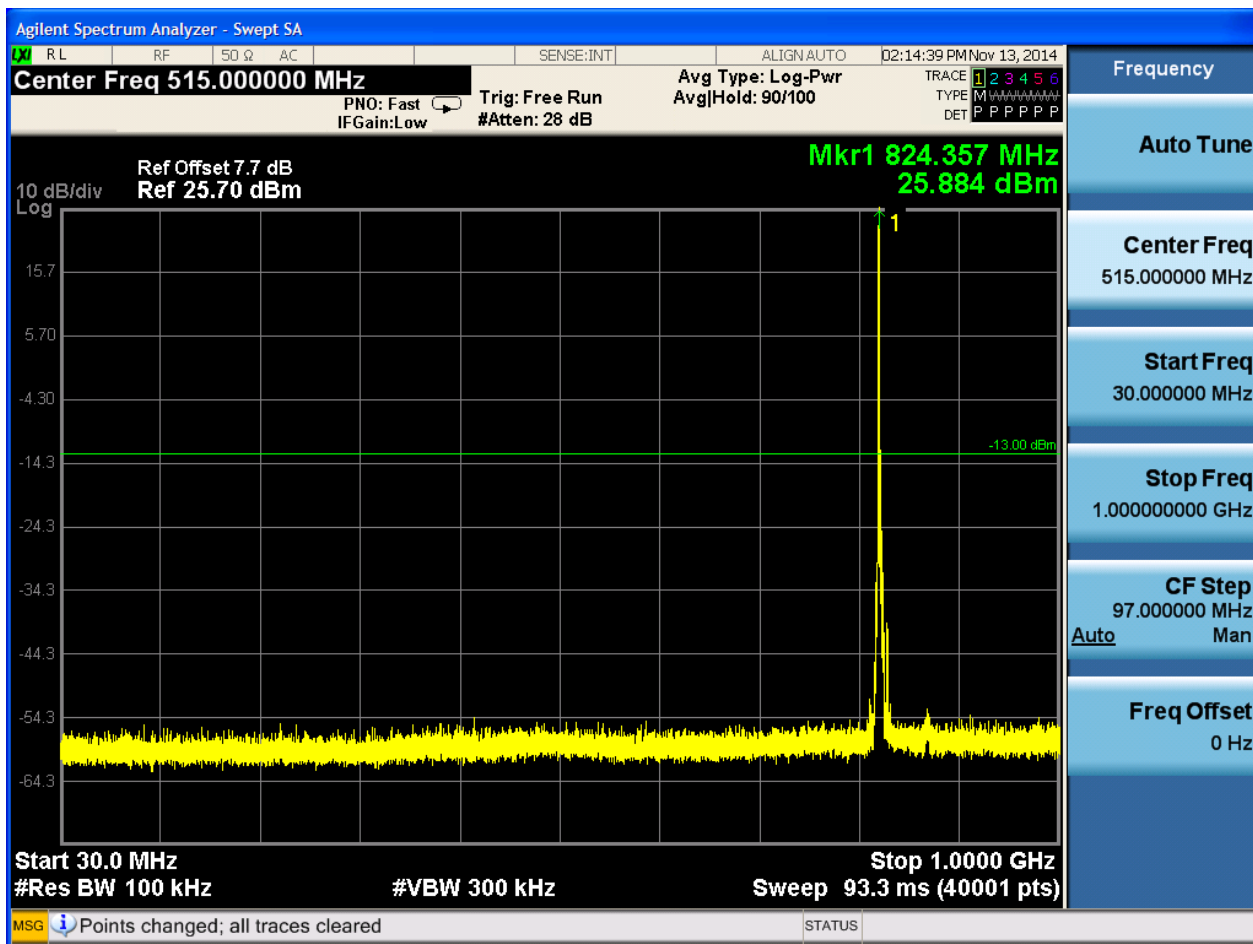
6.1.1.1.3 Test Bandwidth = 5

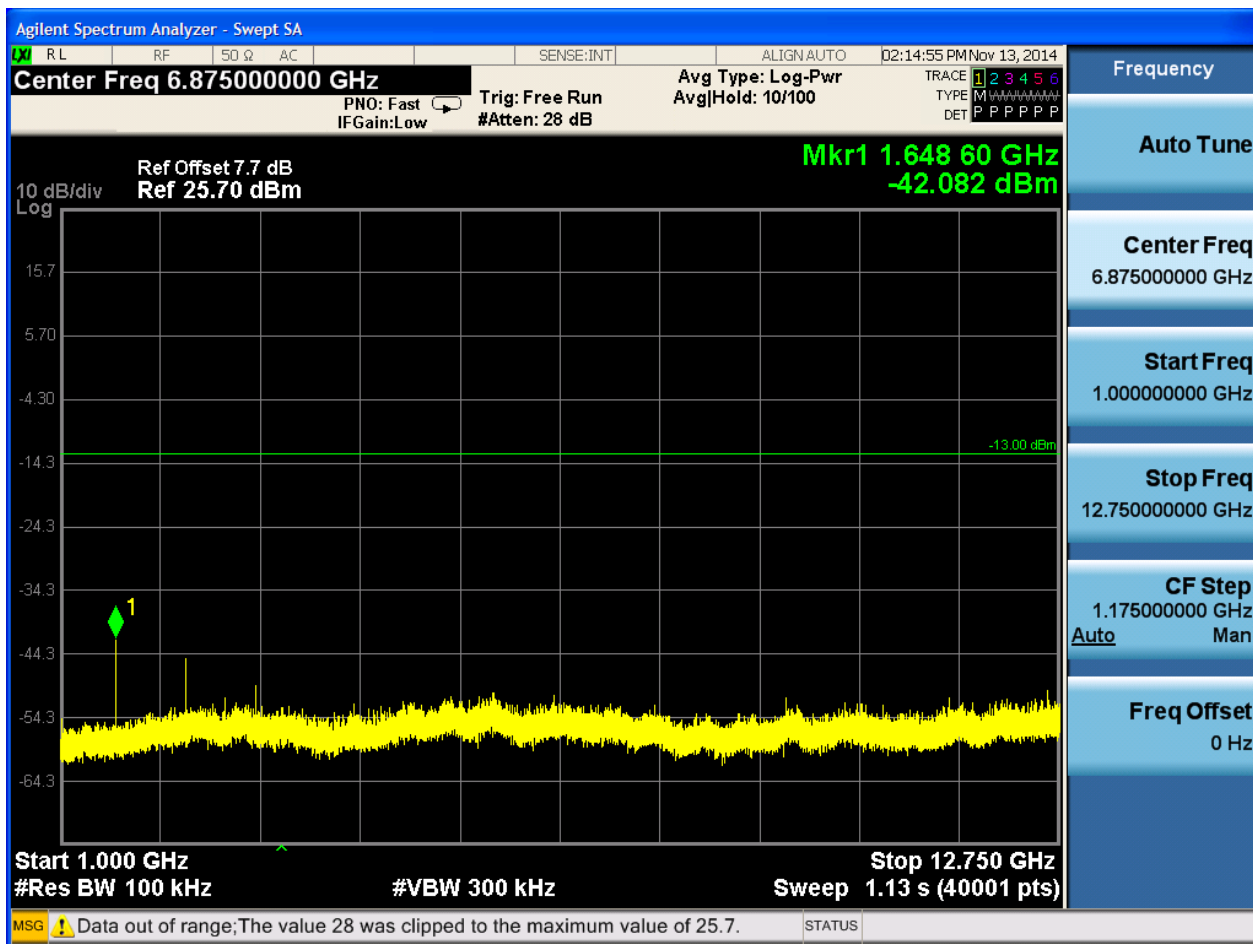
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





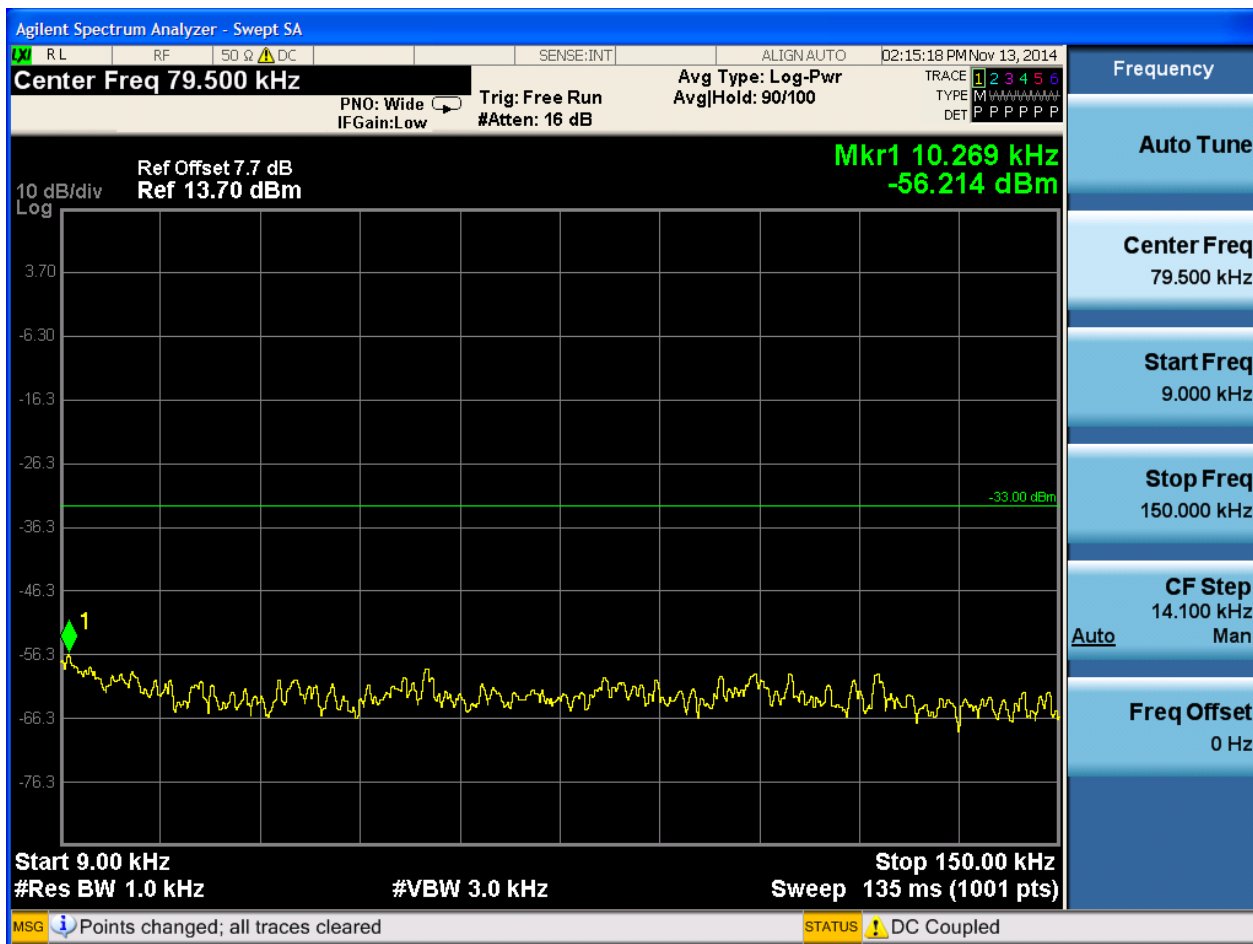


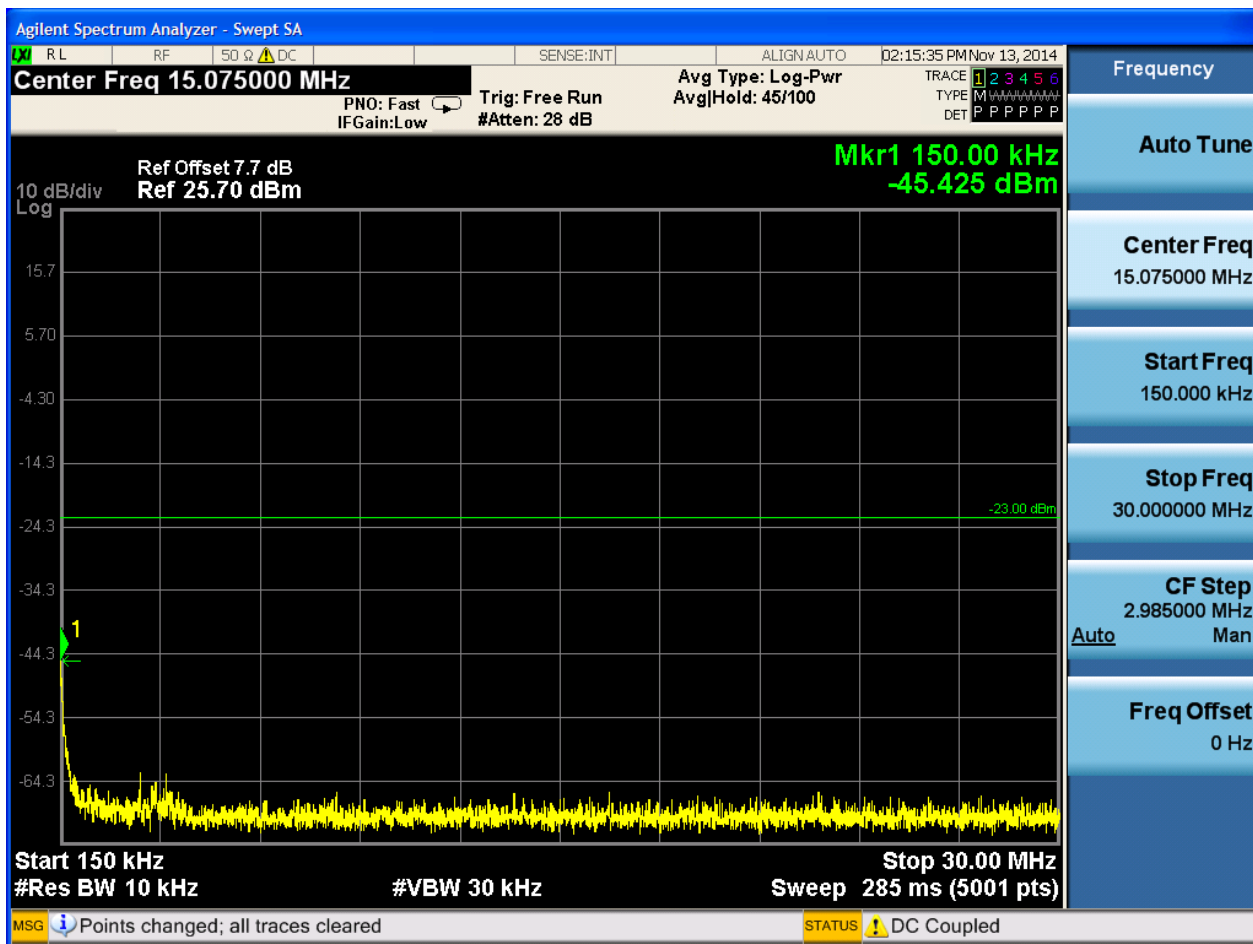


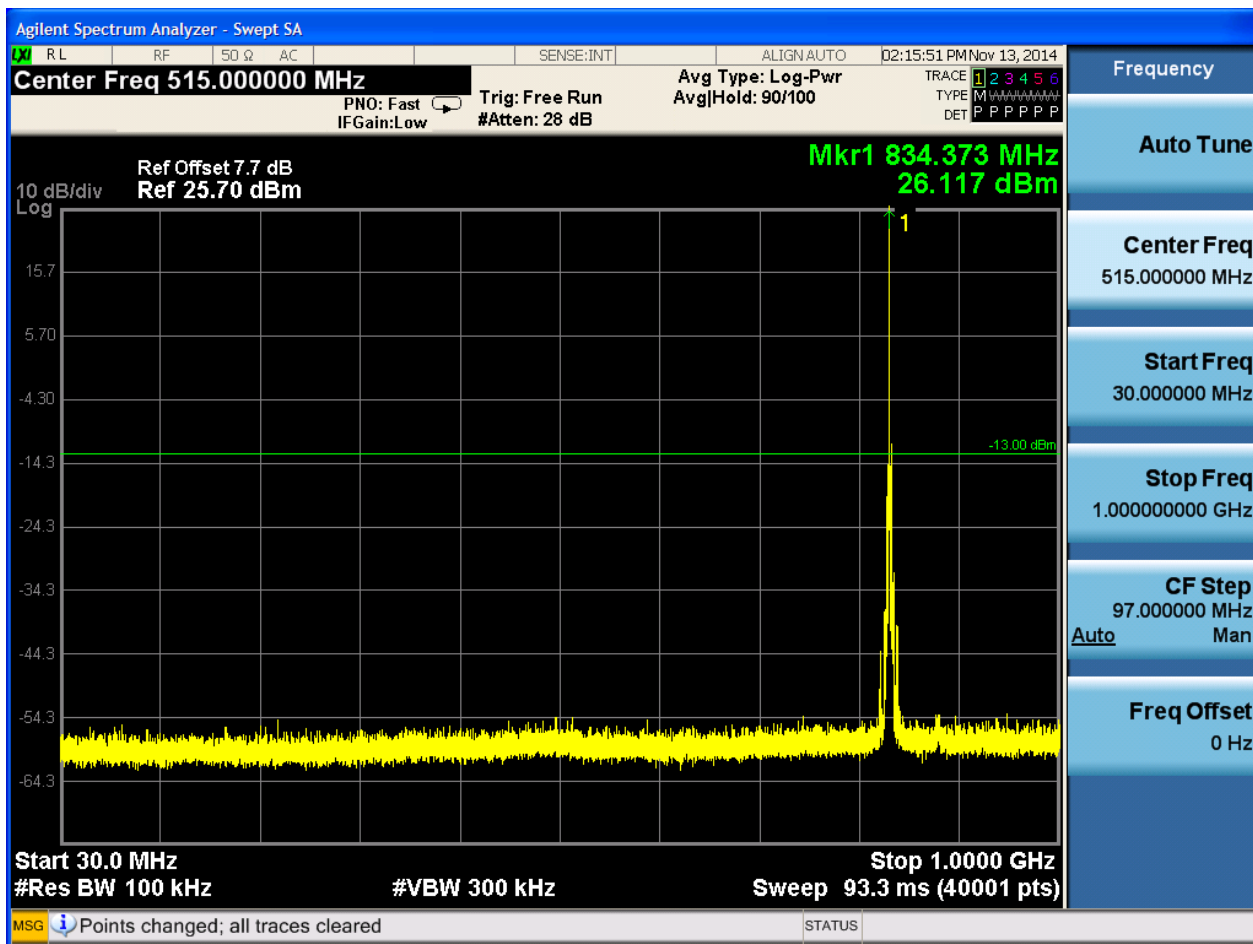


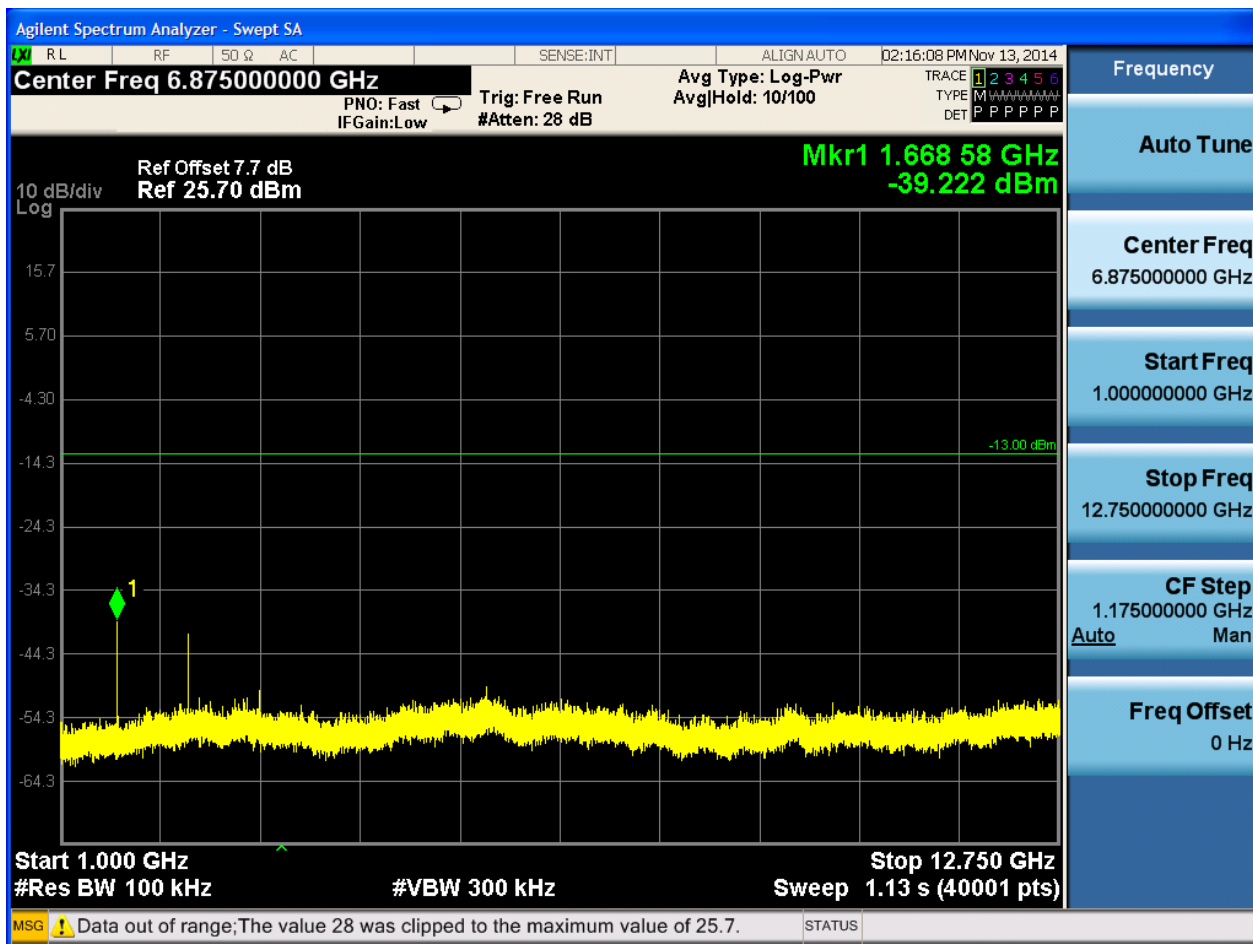
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





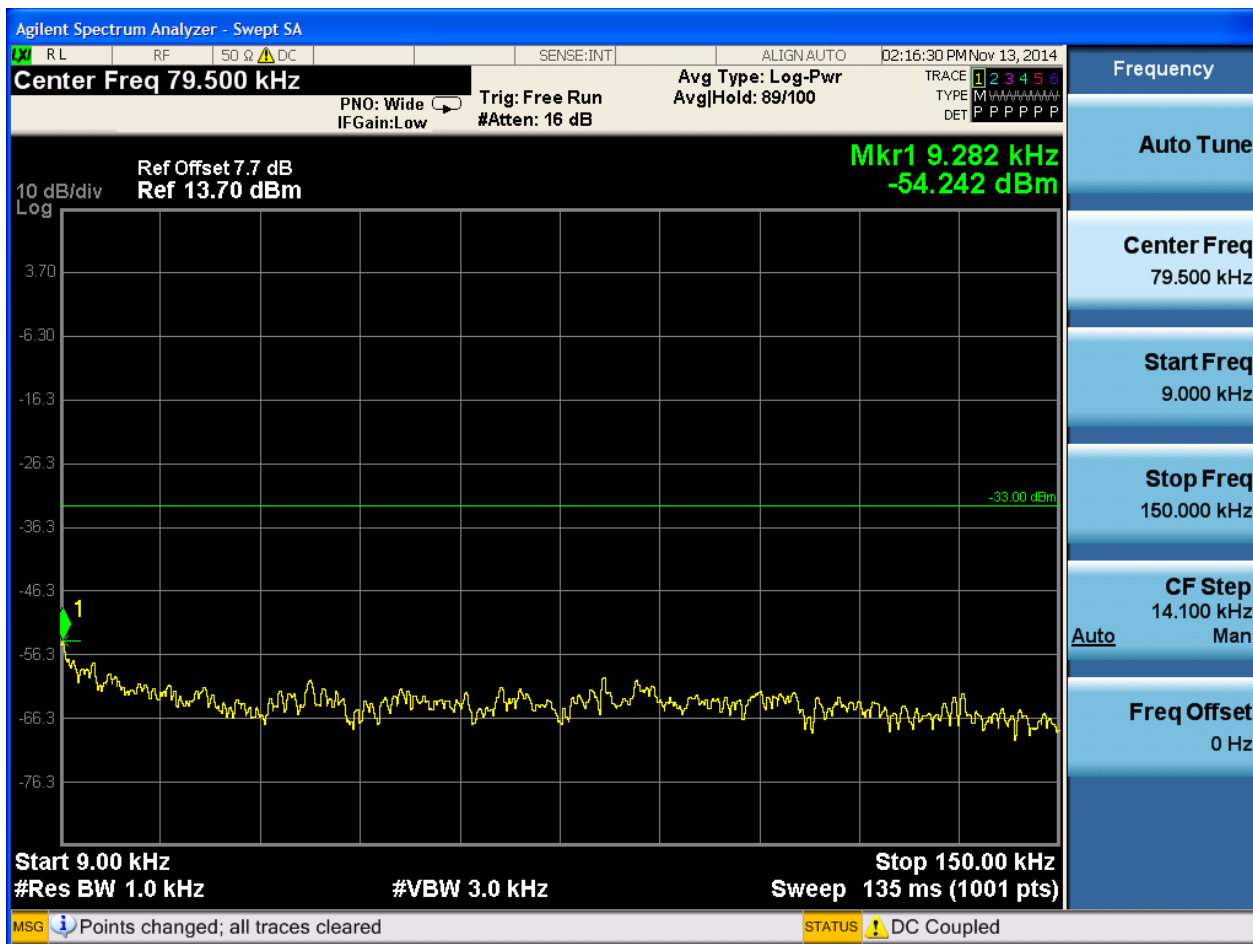


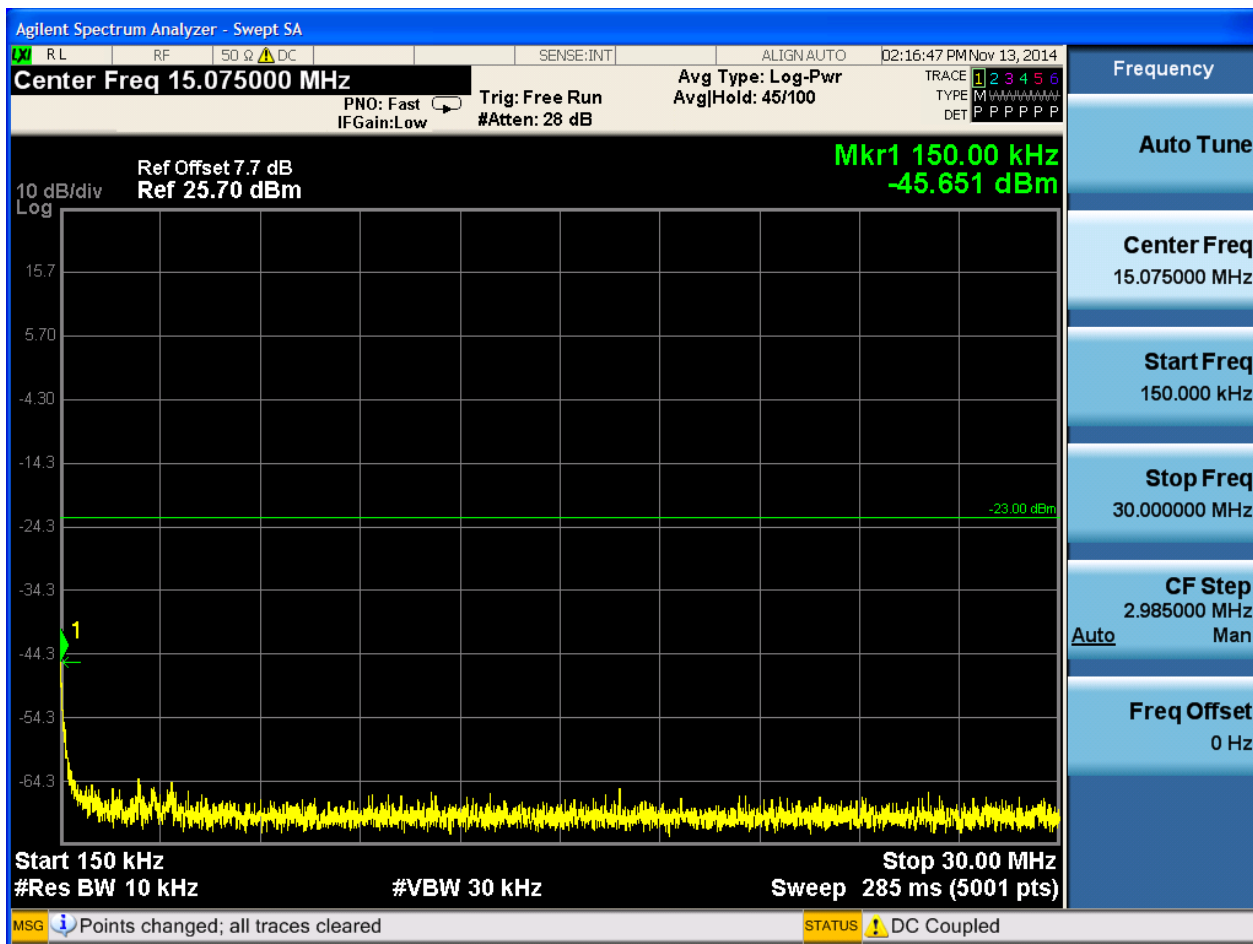


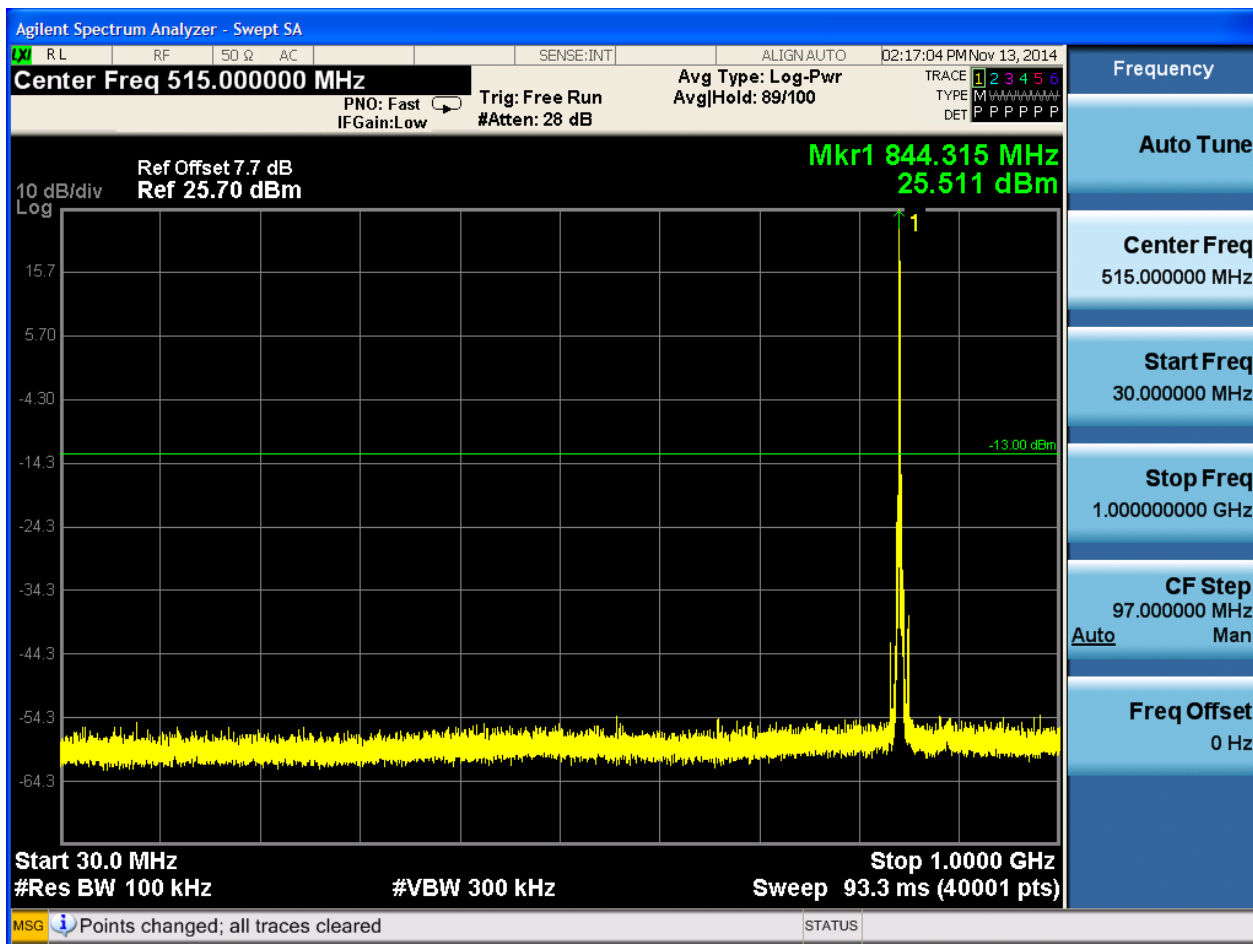


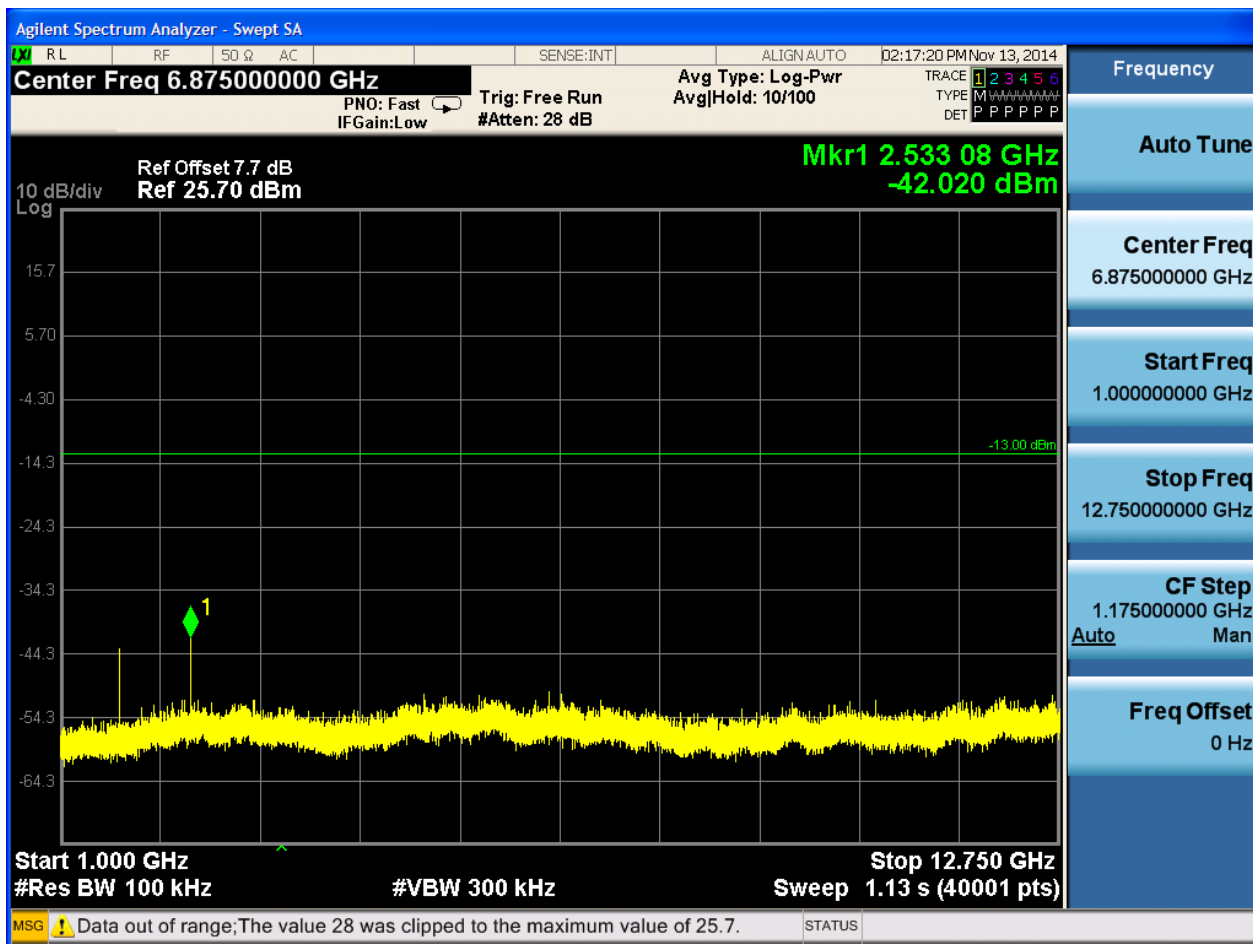
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







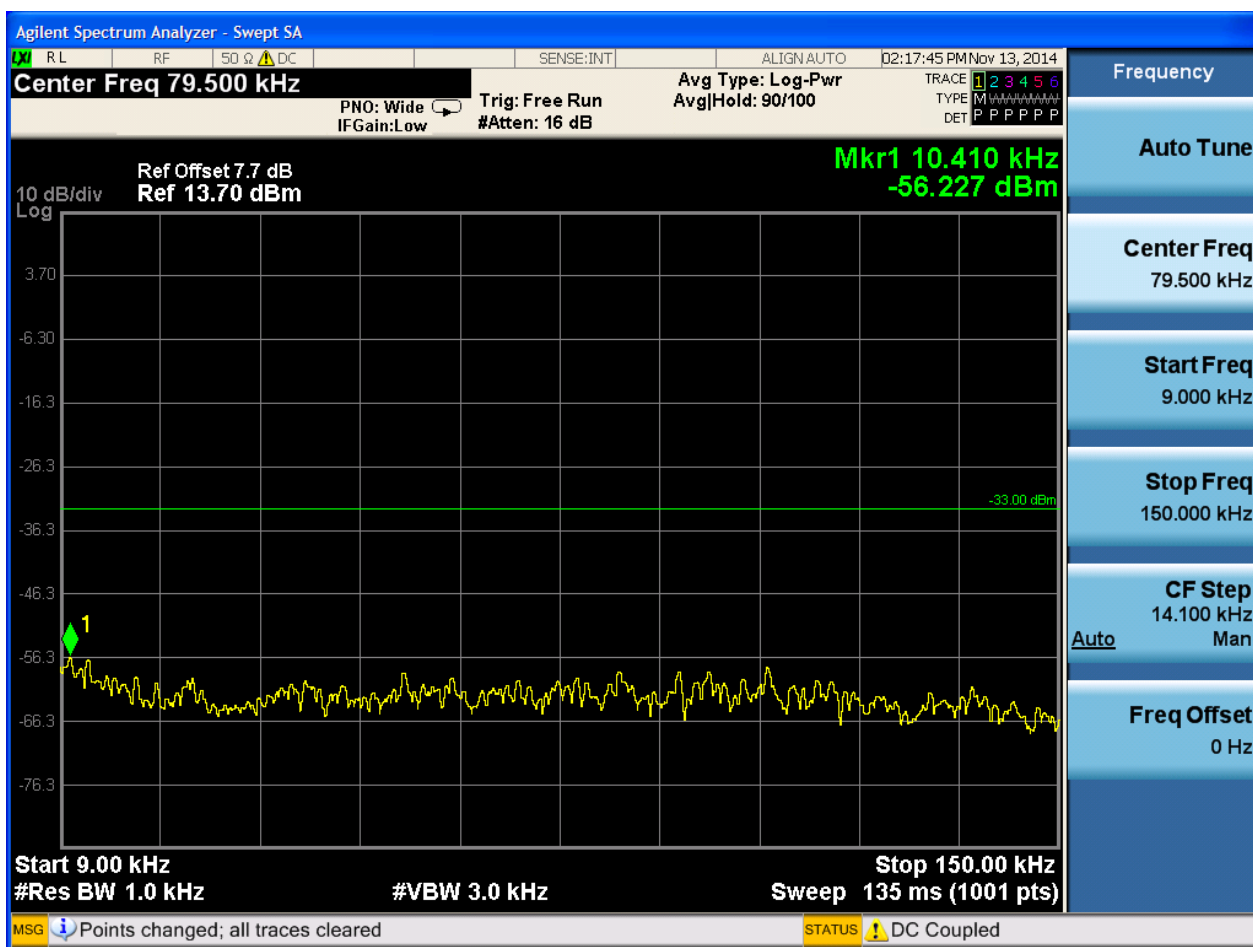


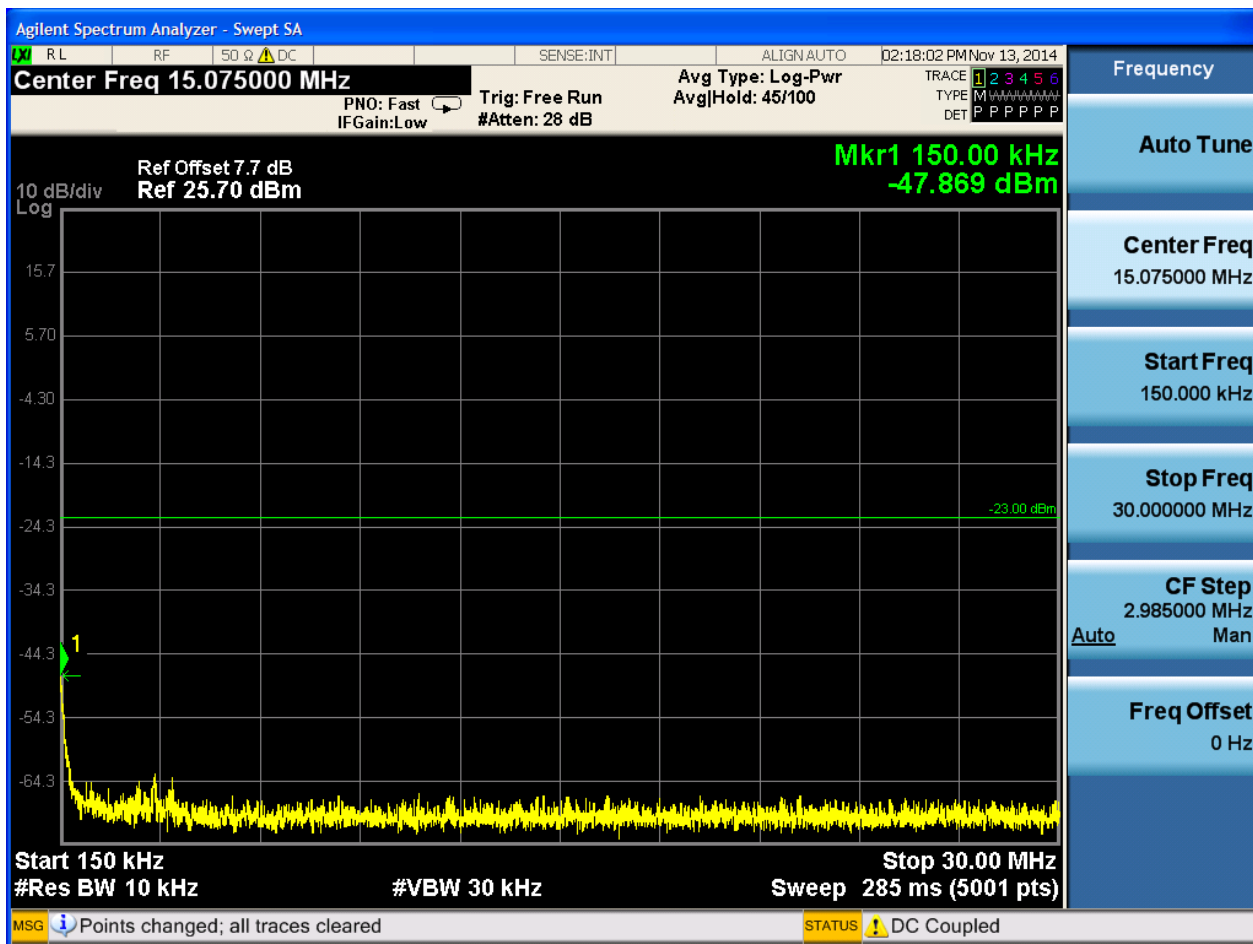


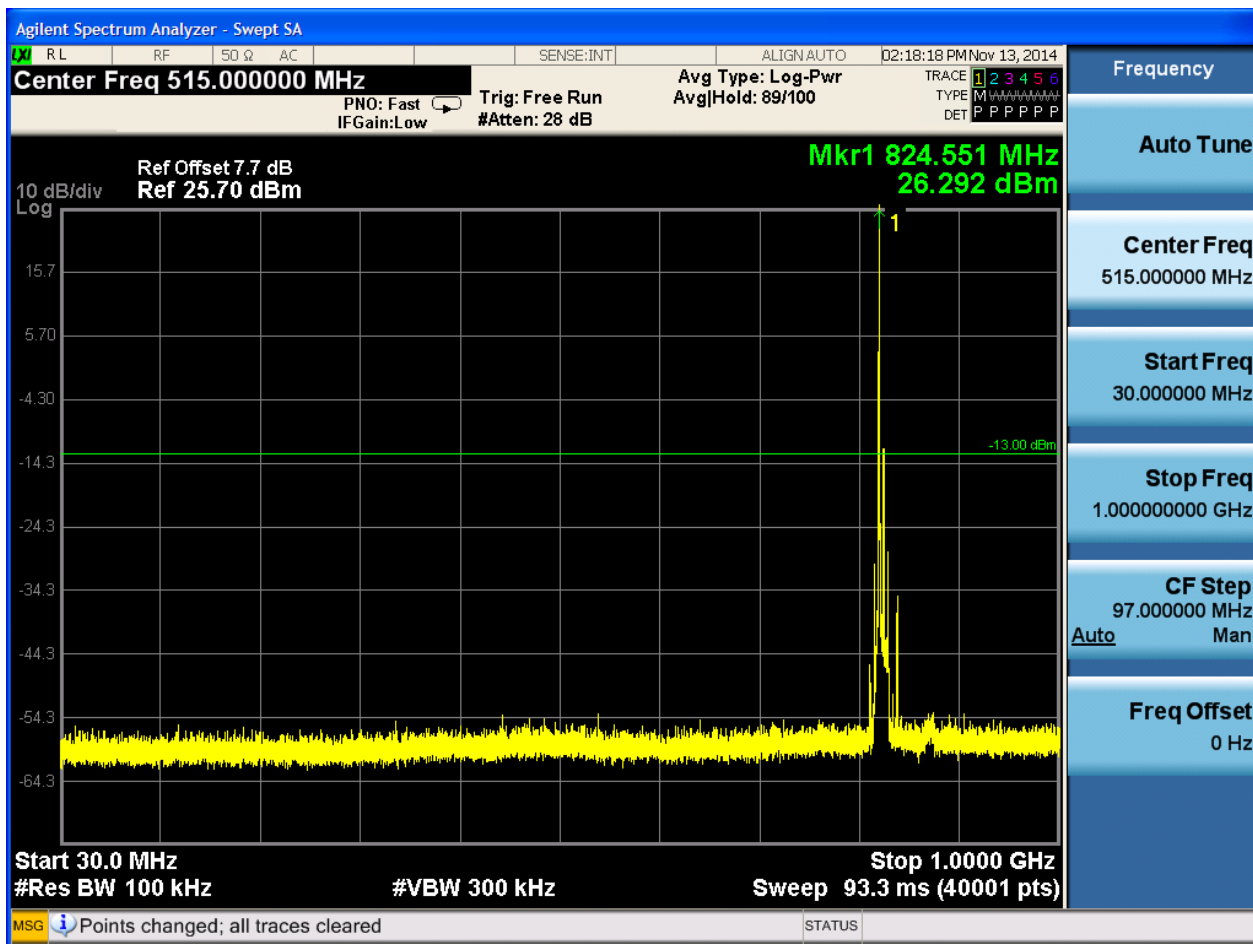
6.1.1.1.4 Test Bandwidth = 10

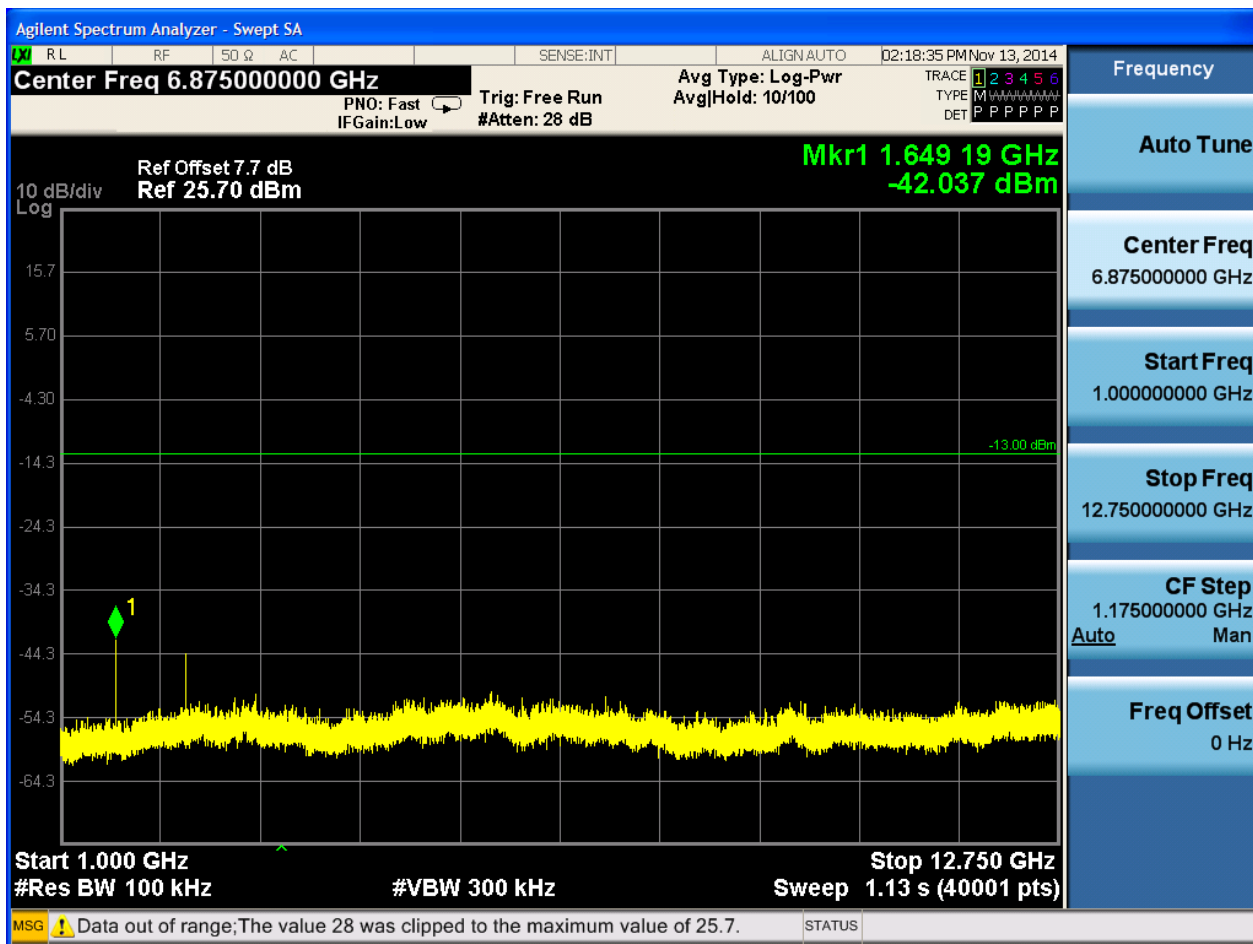
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





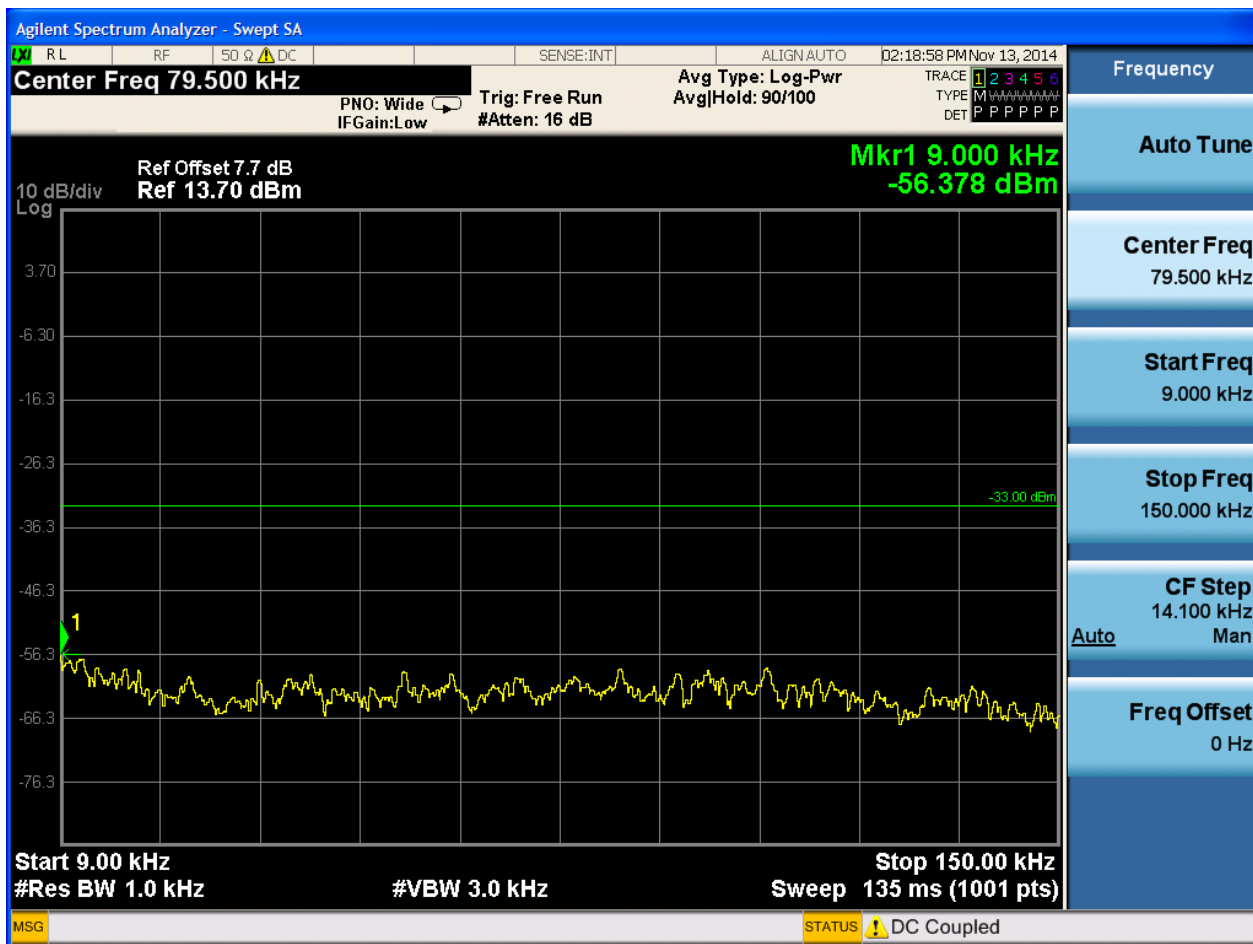


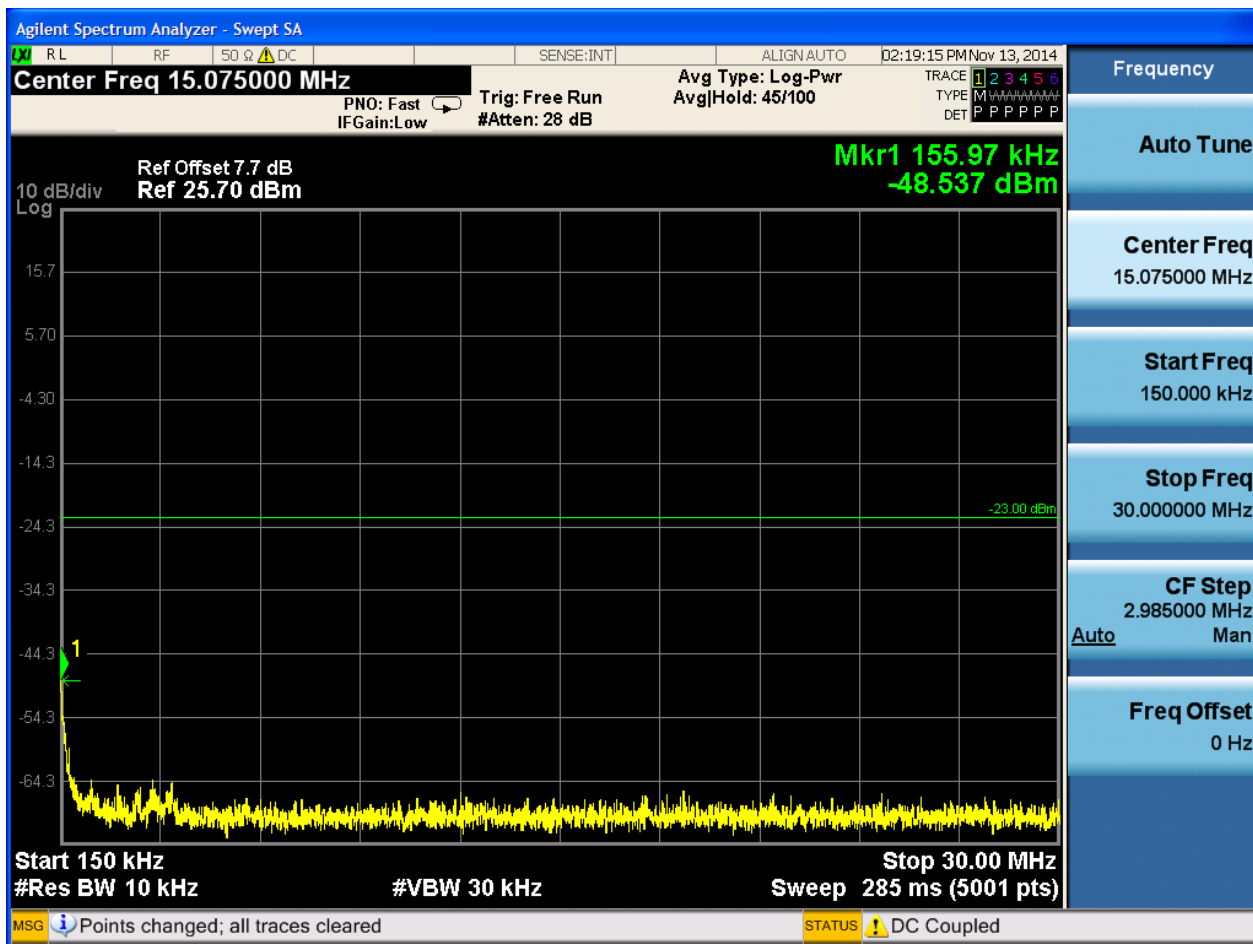


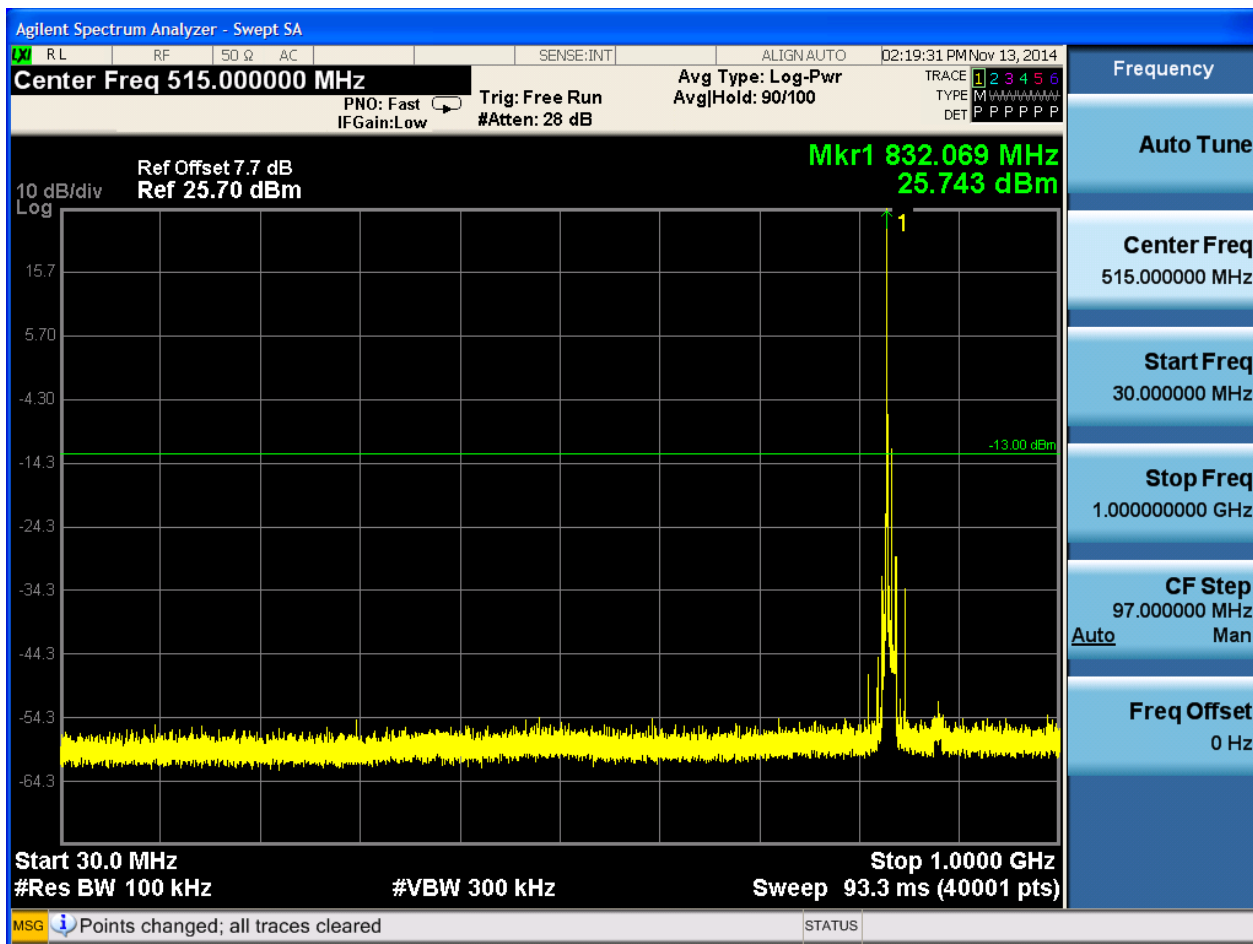


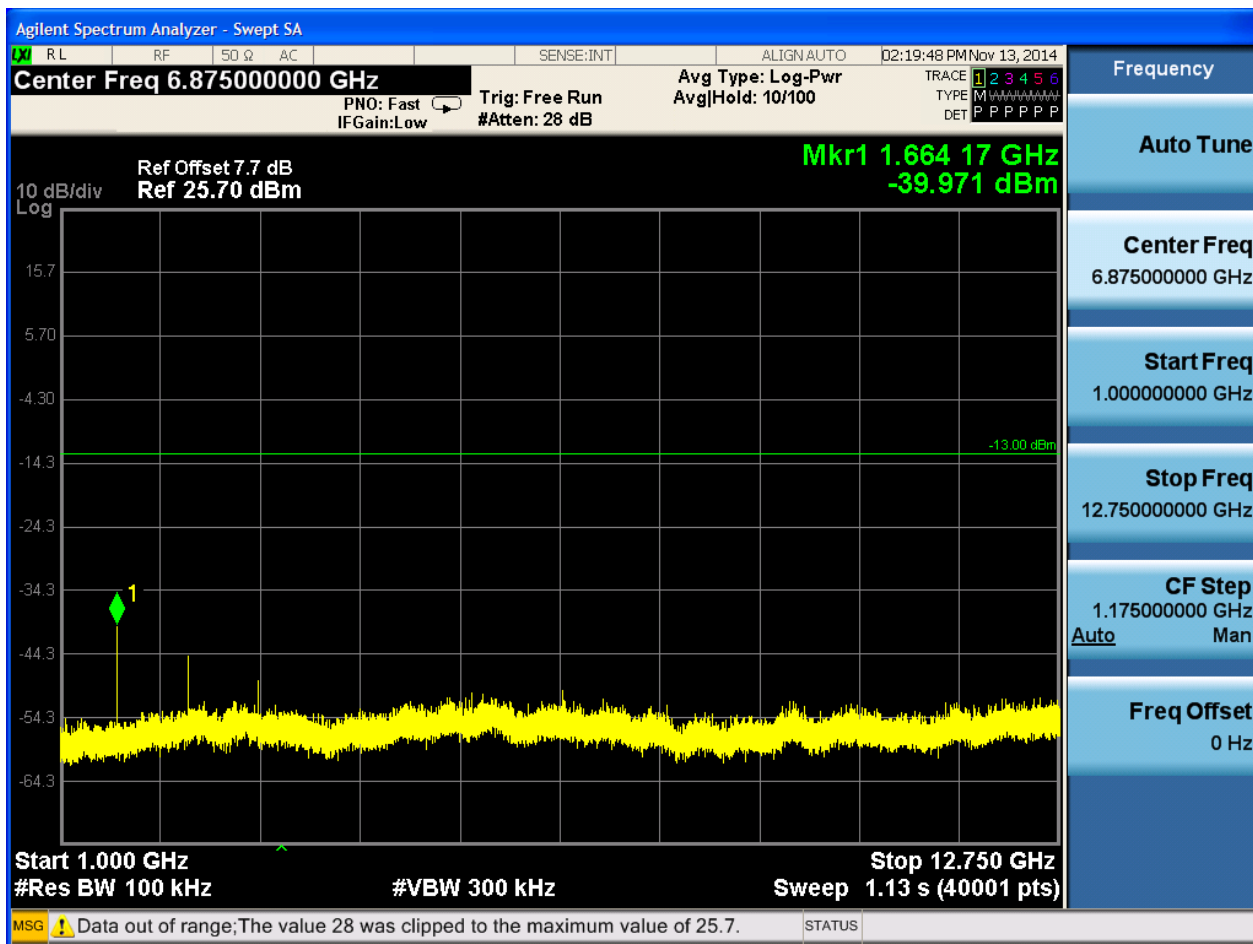
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



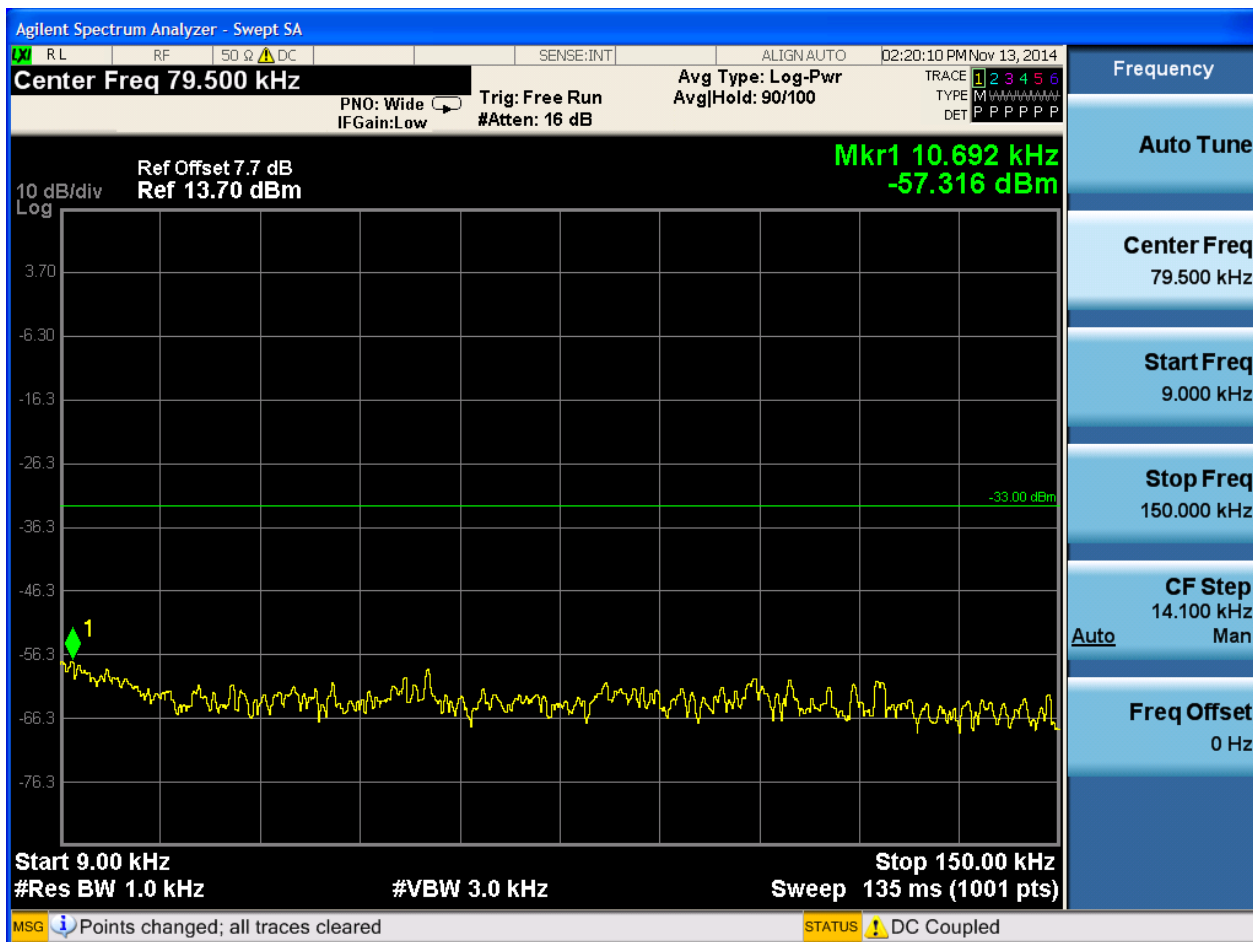


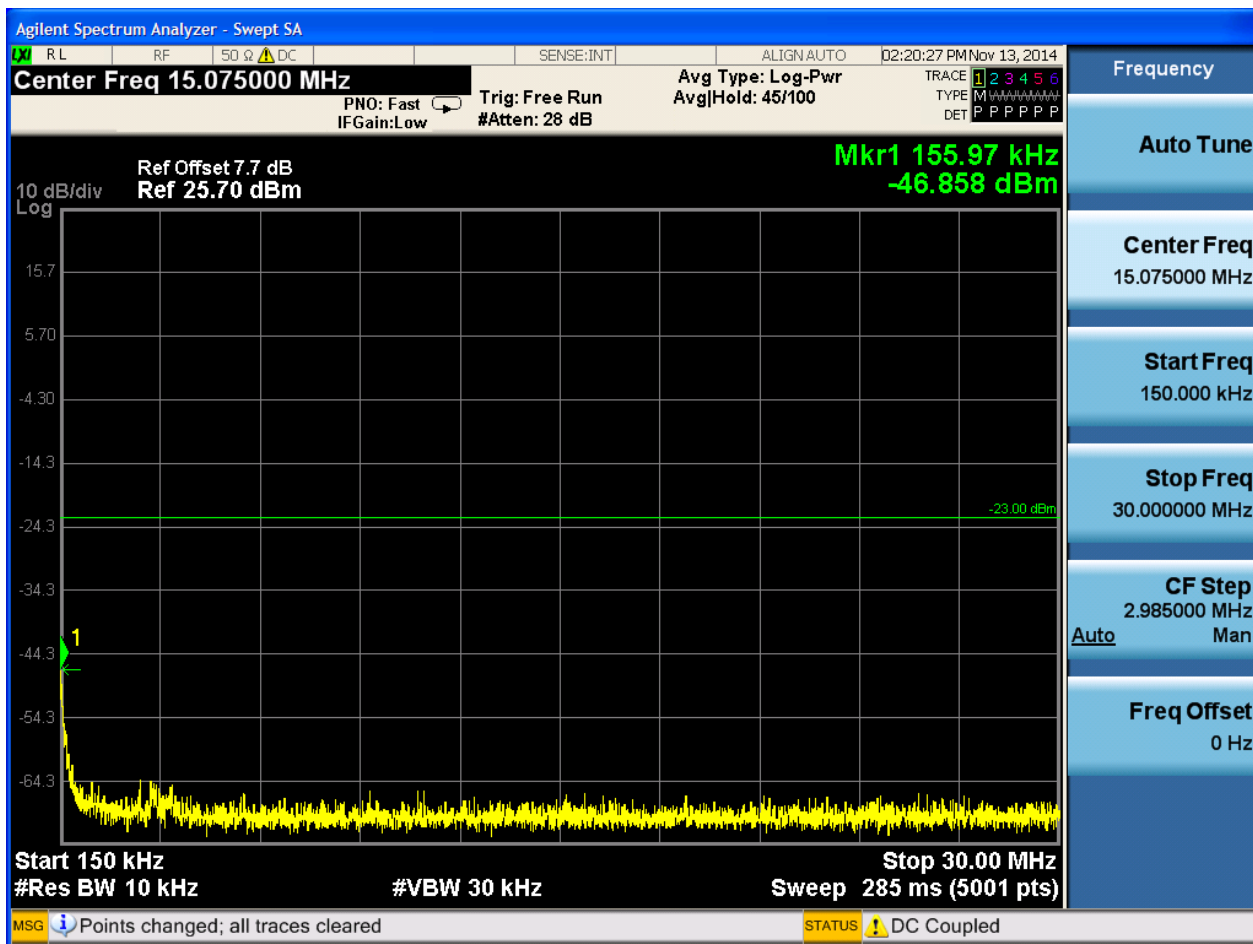


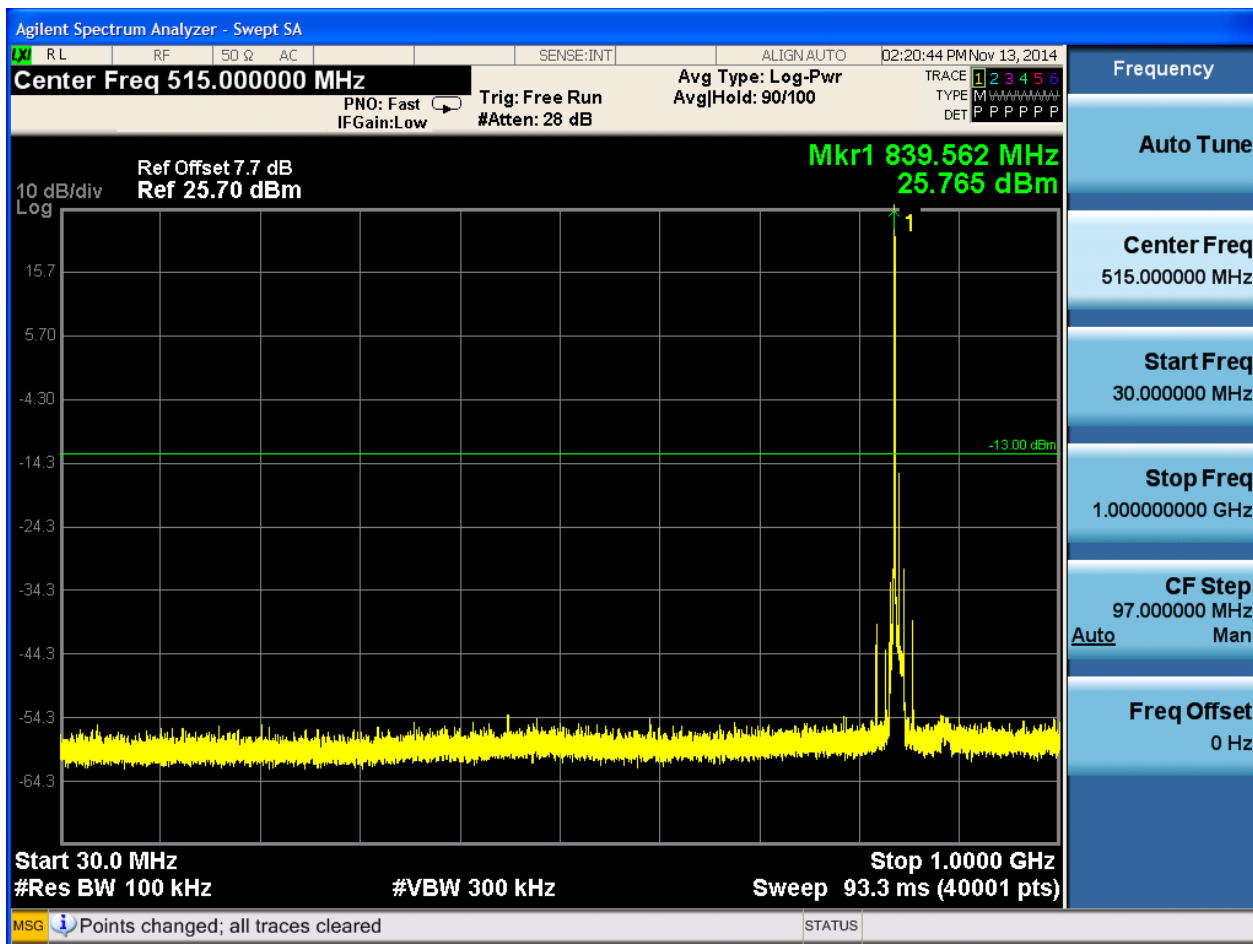


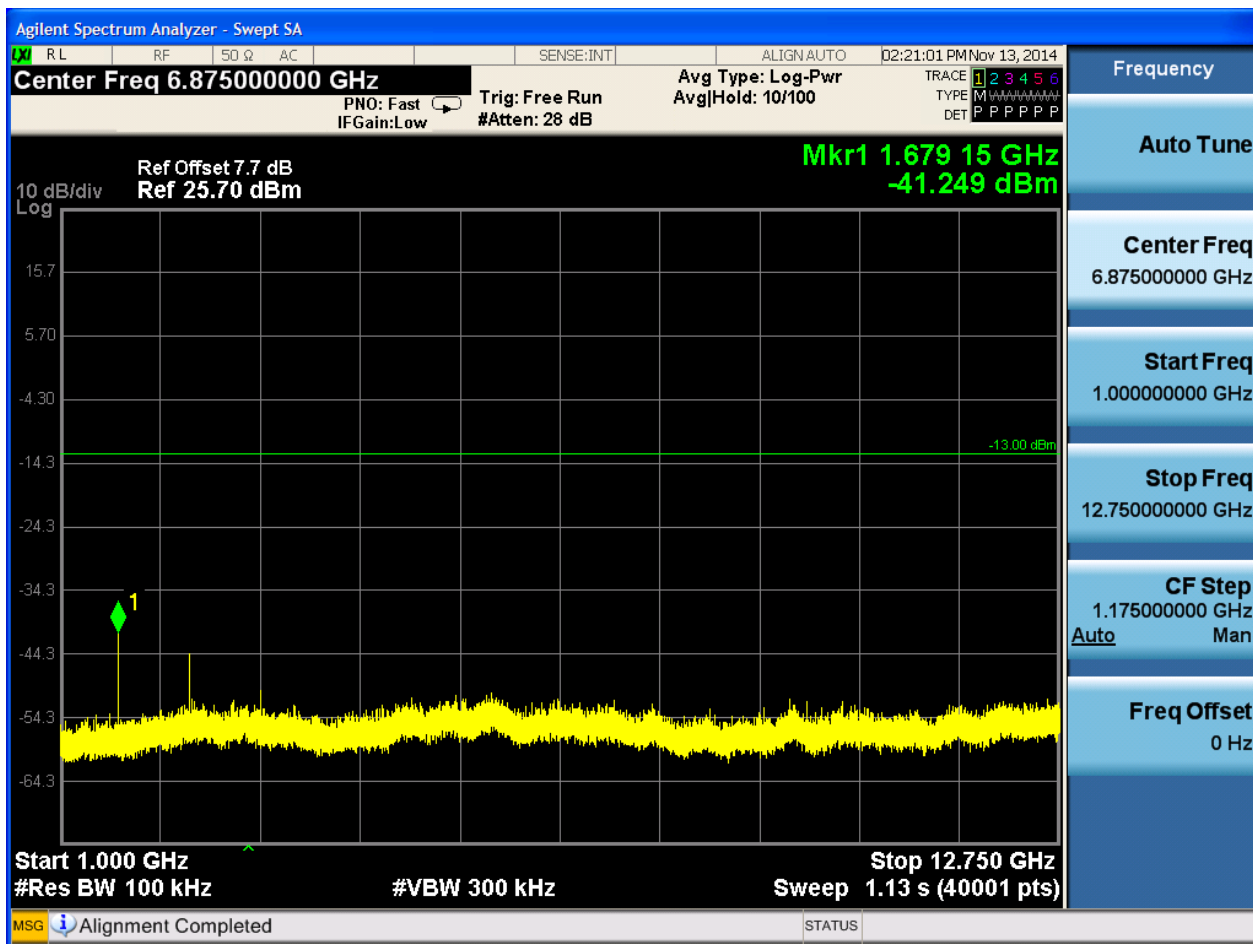
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









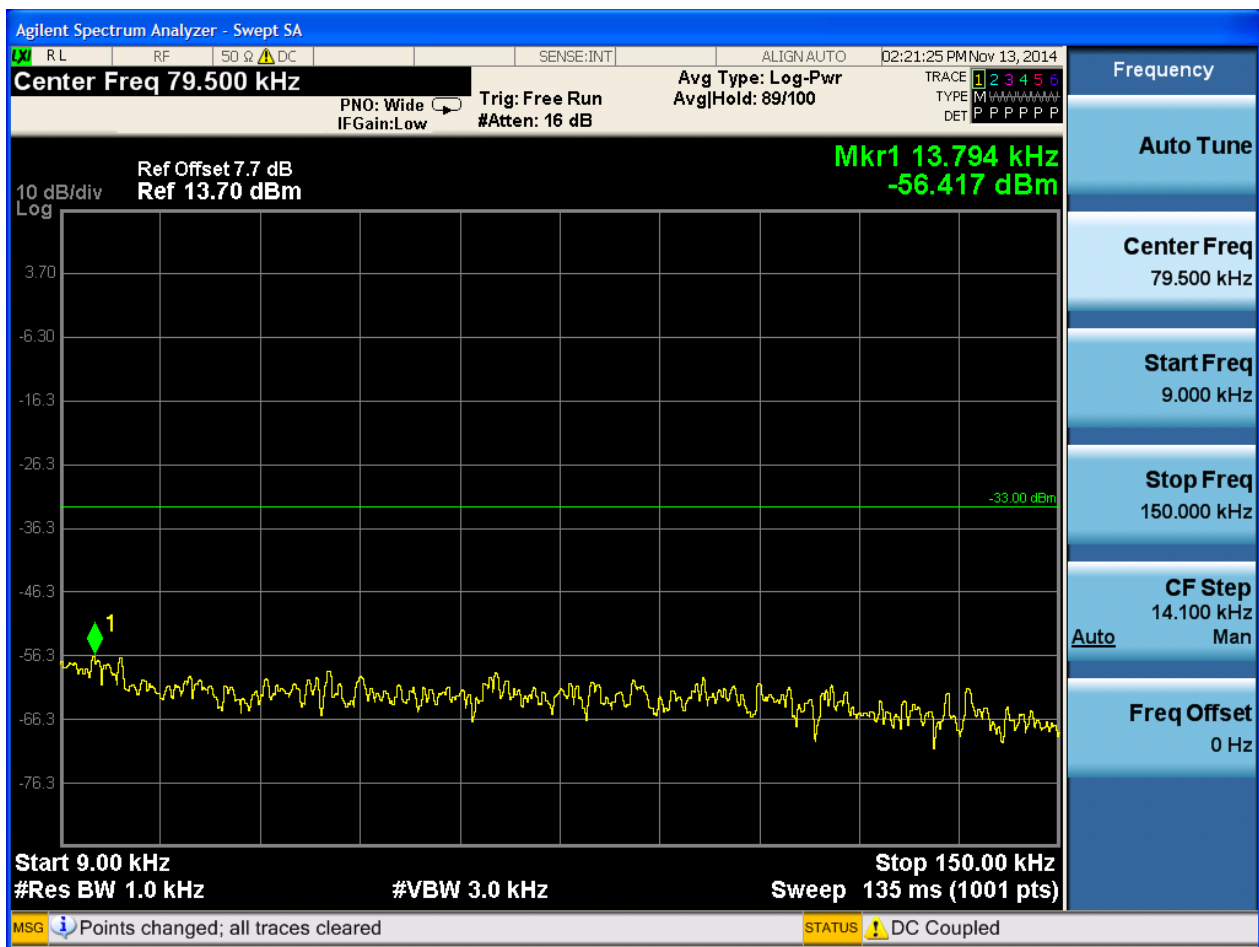


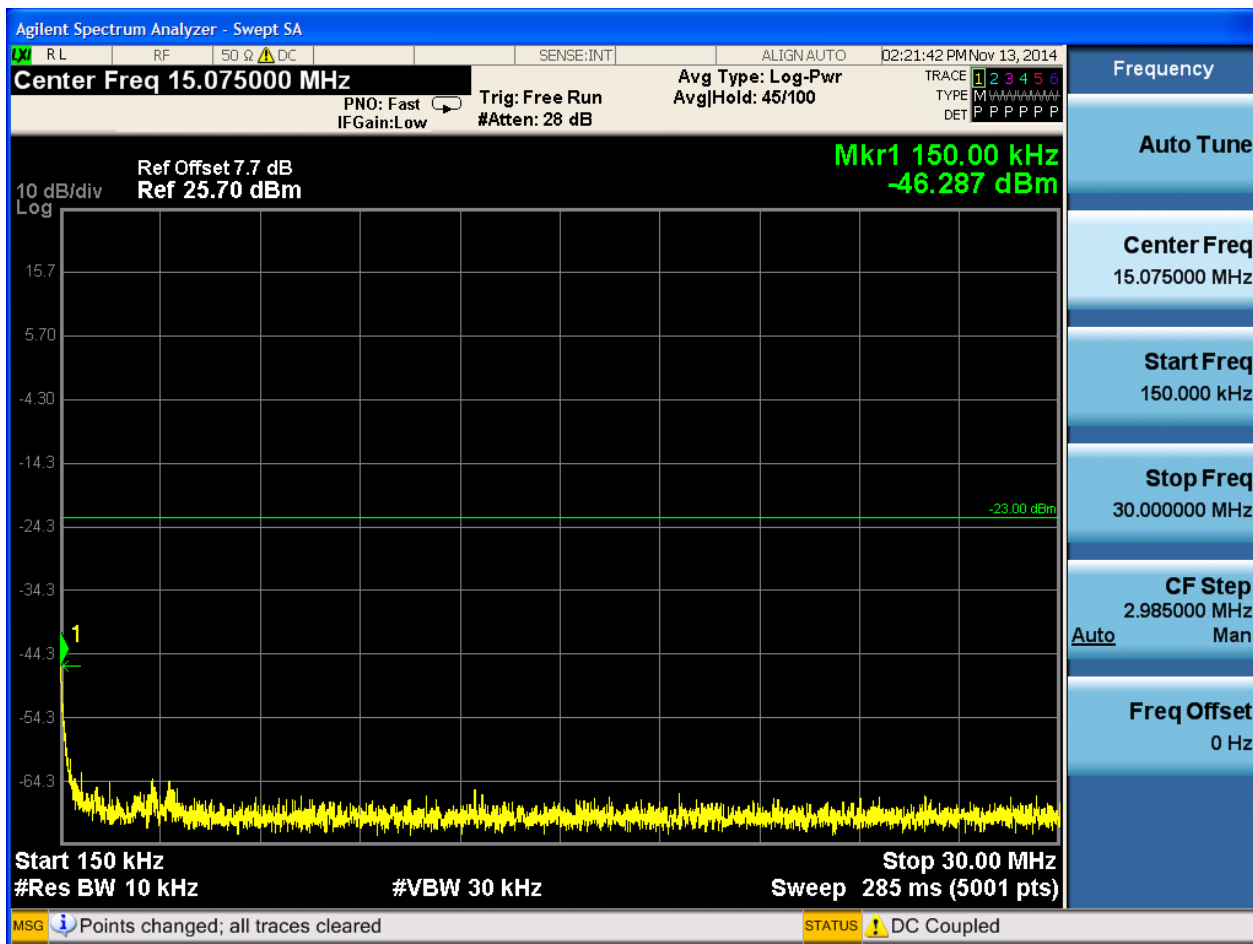
6.1.1.2 Test Mode = LTE/TM2

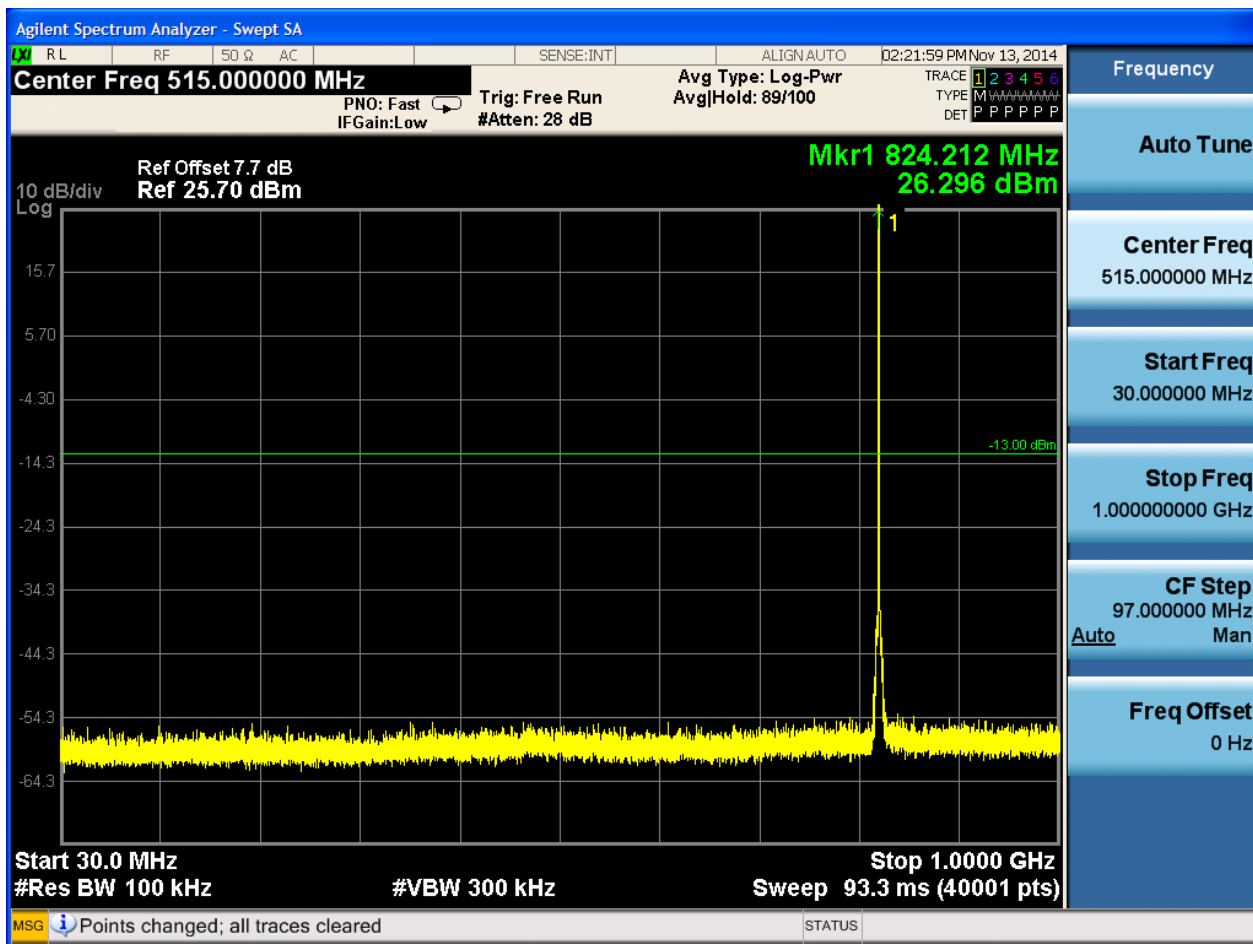
6.1.1.2.1 Test Bandwidth = 1.4

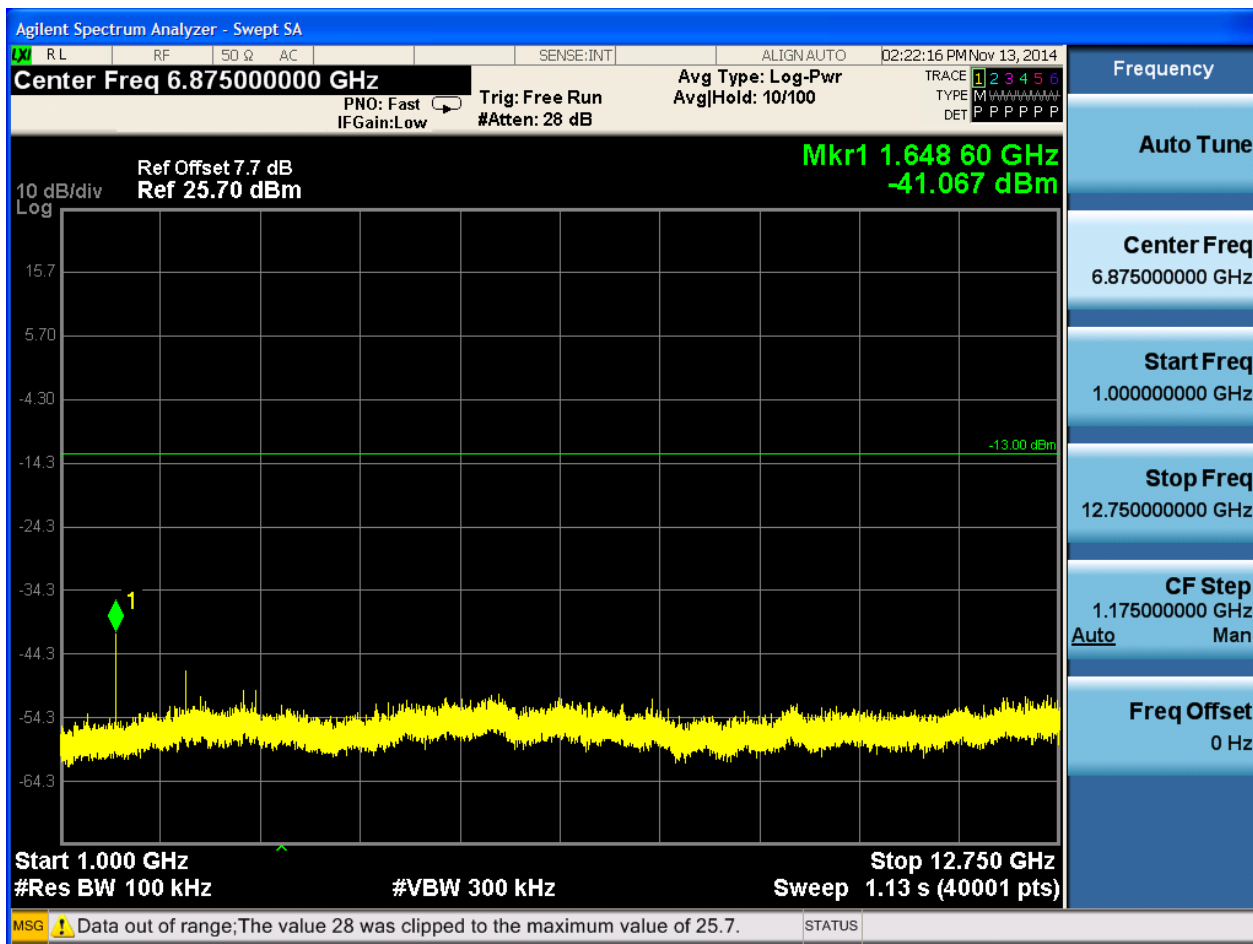
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





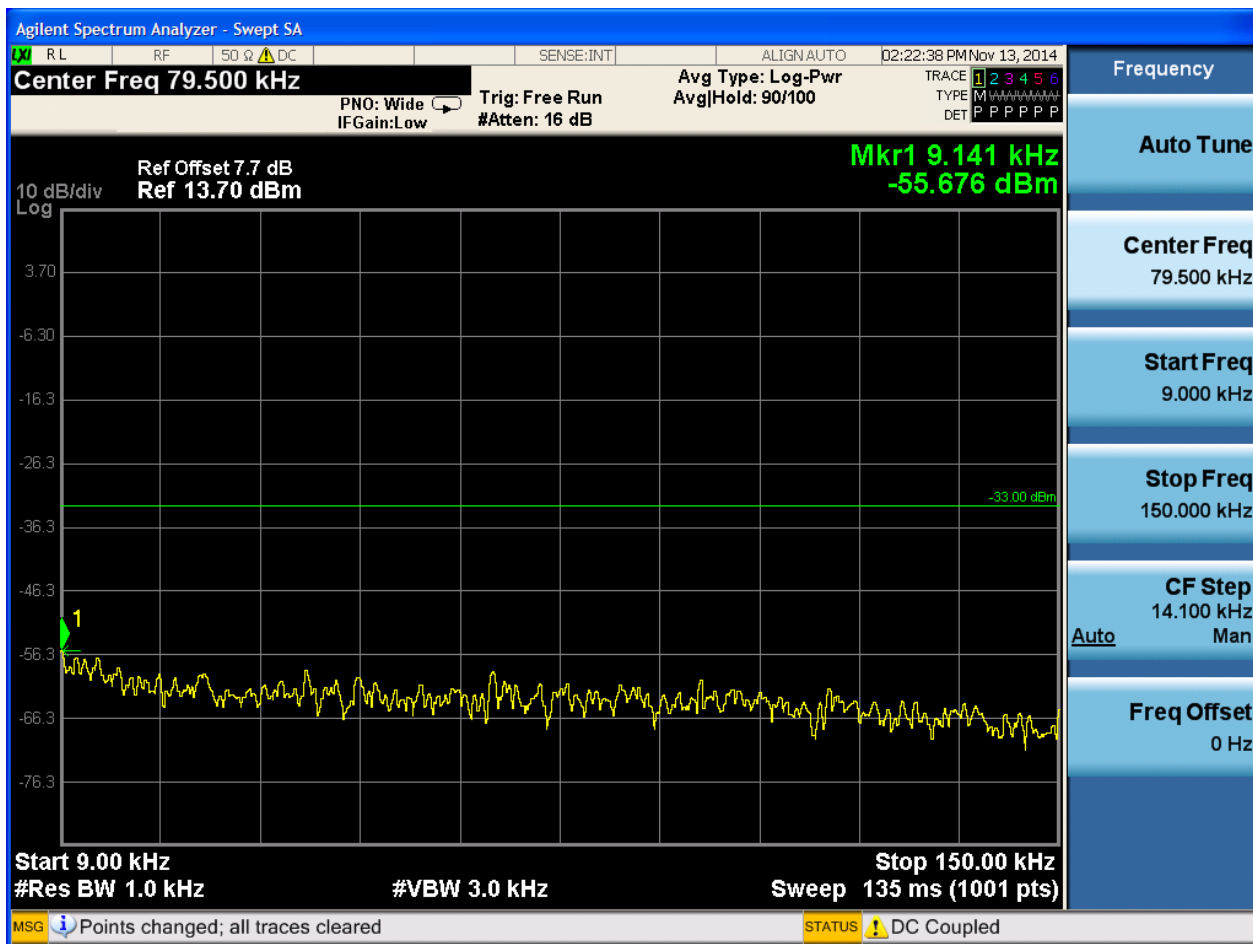


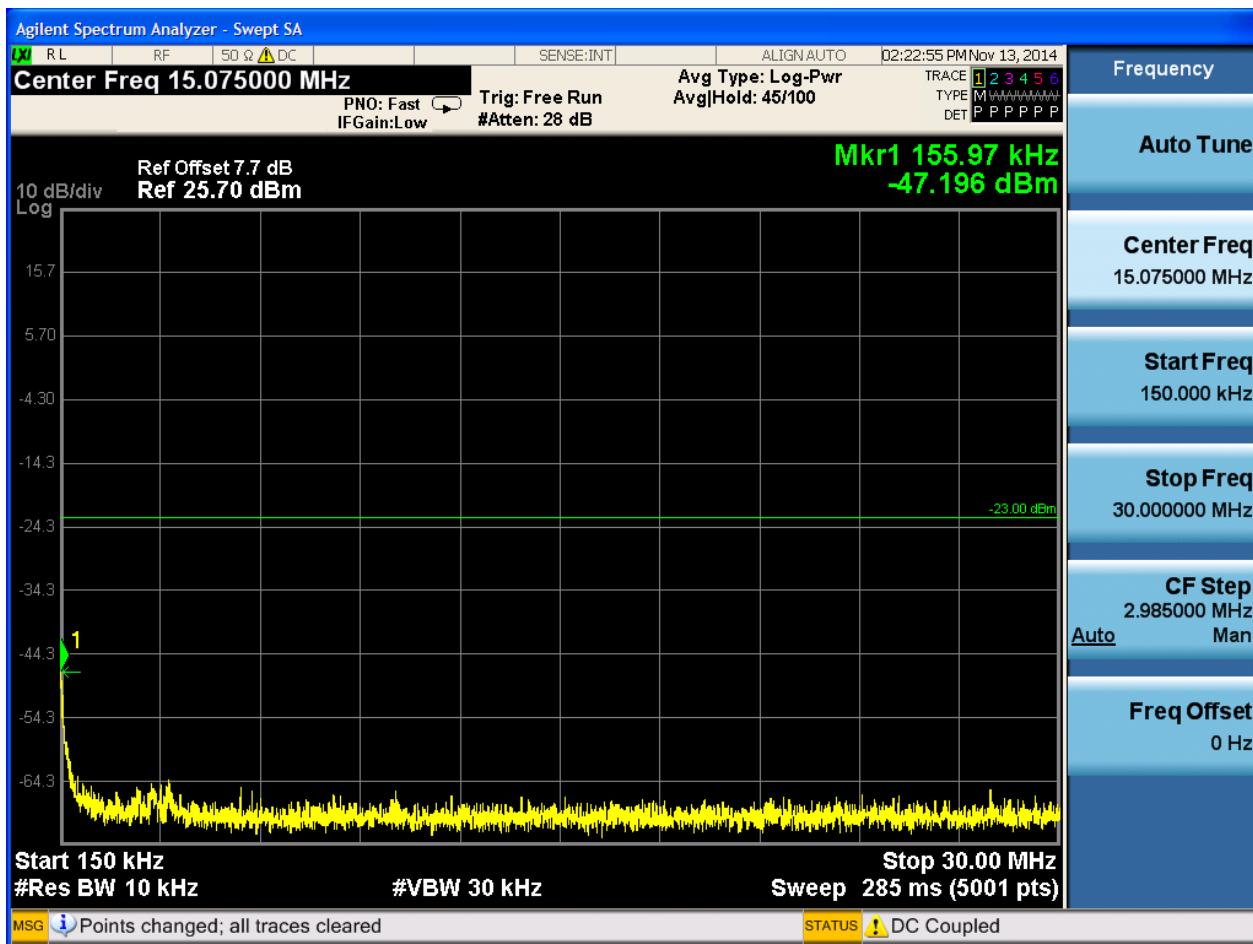


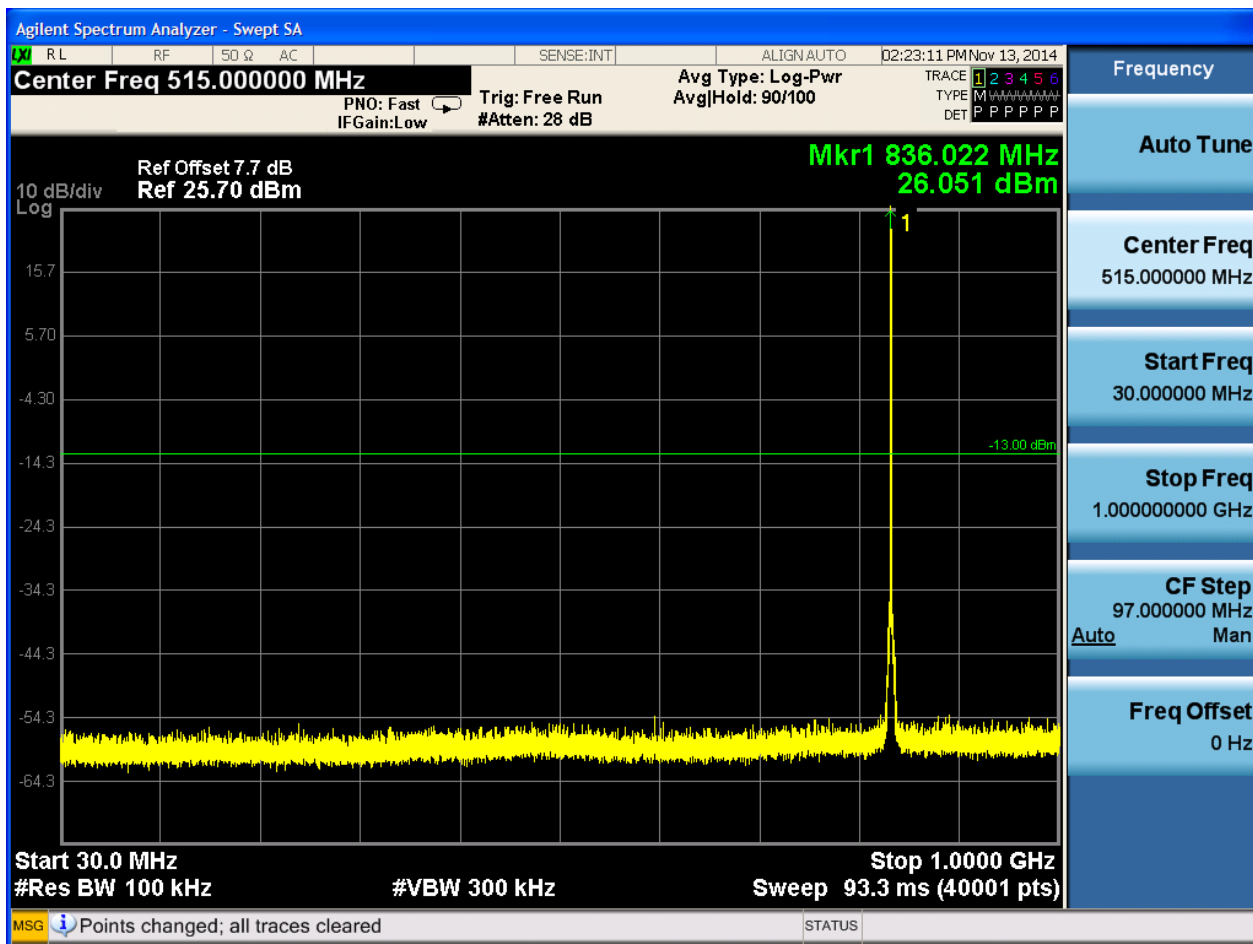


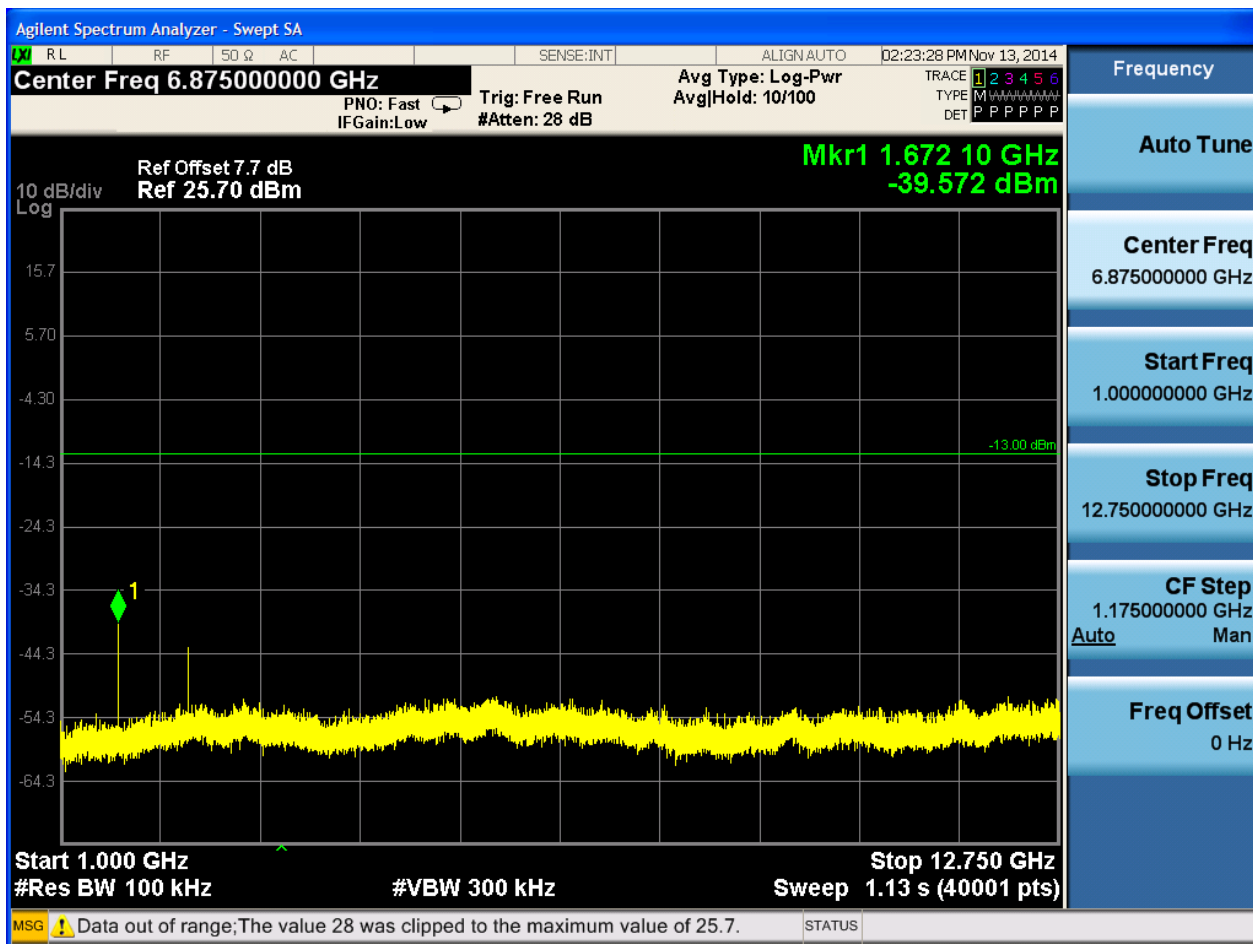
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





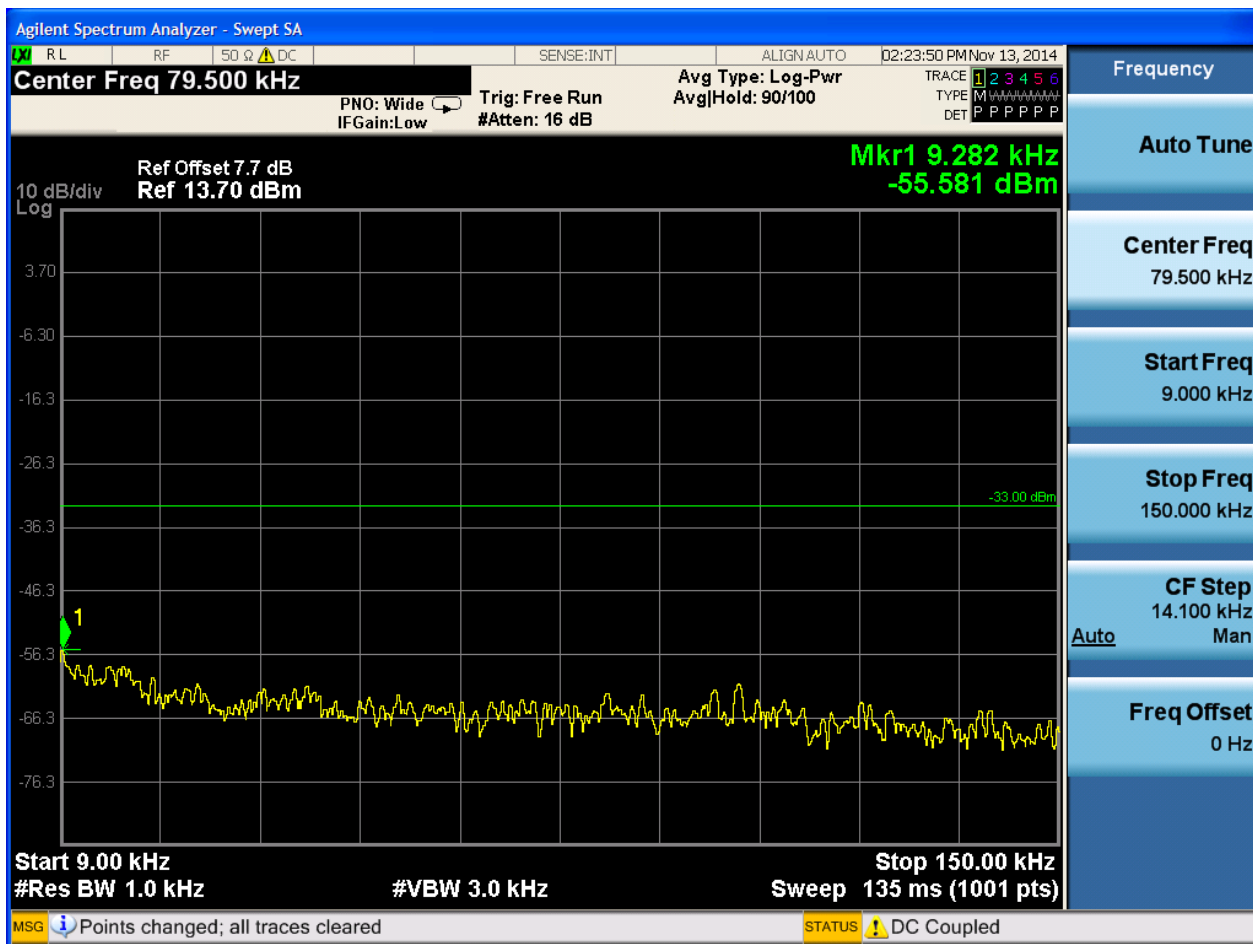


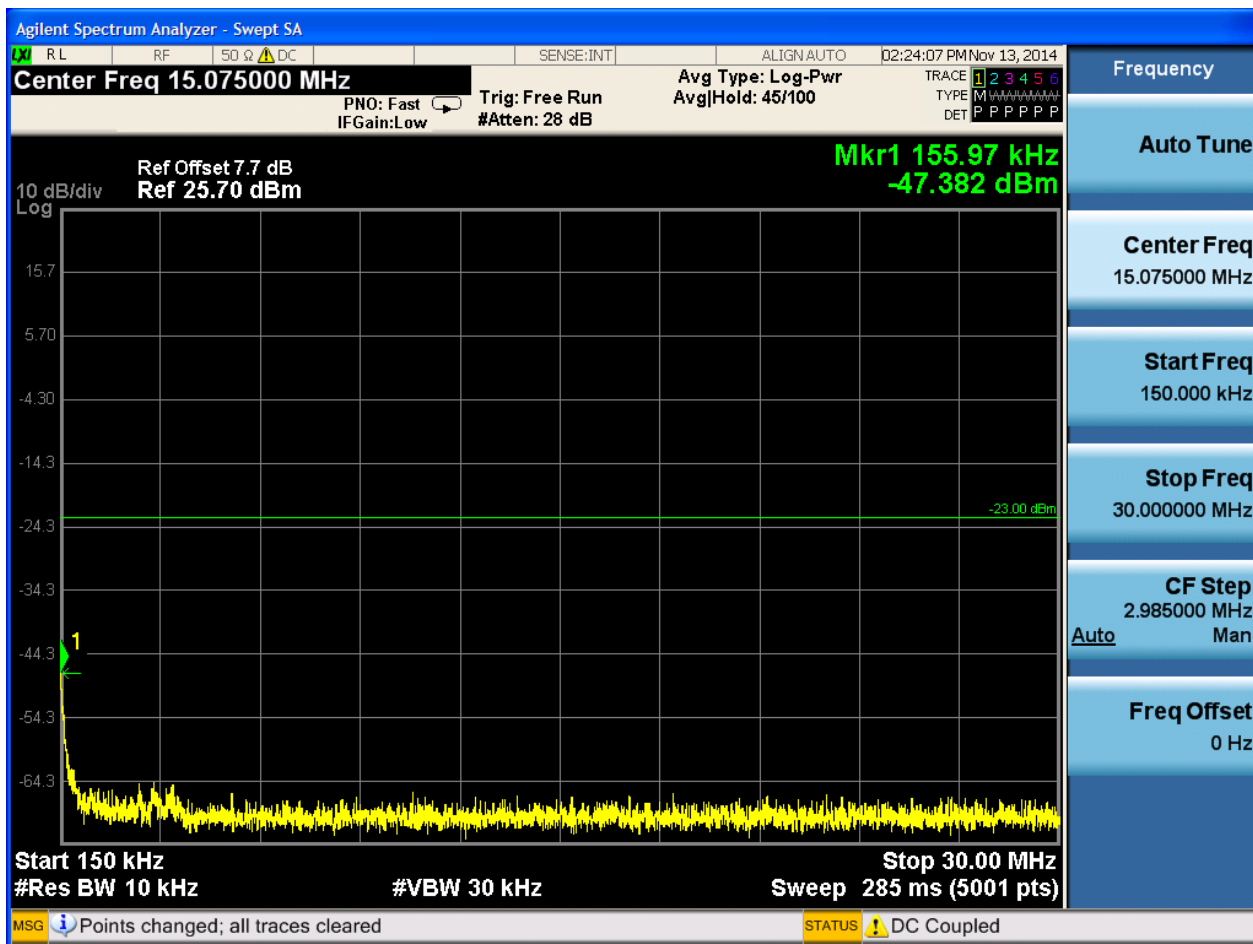


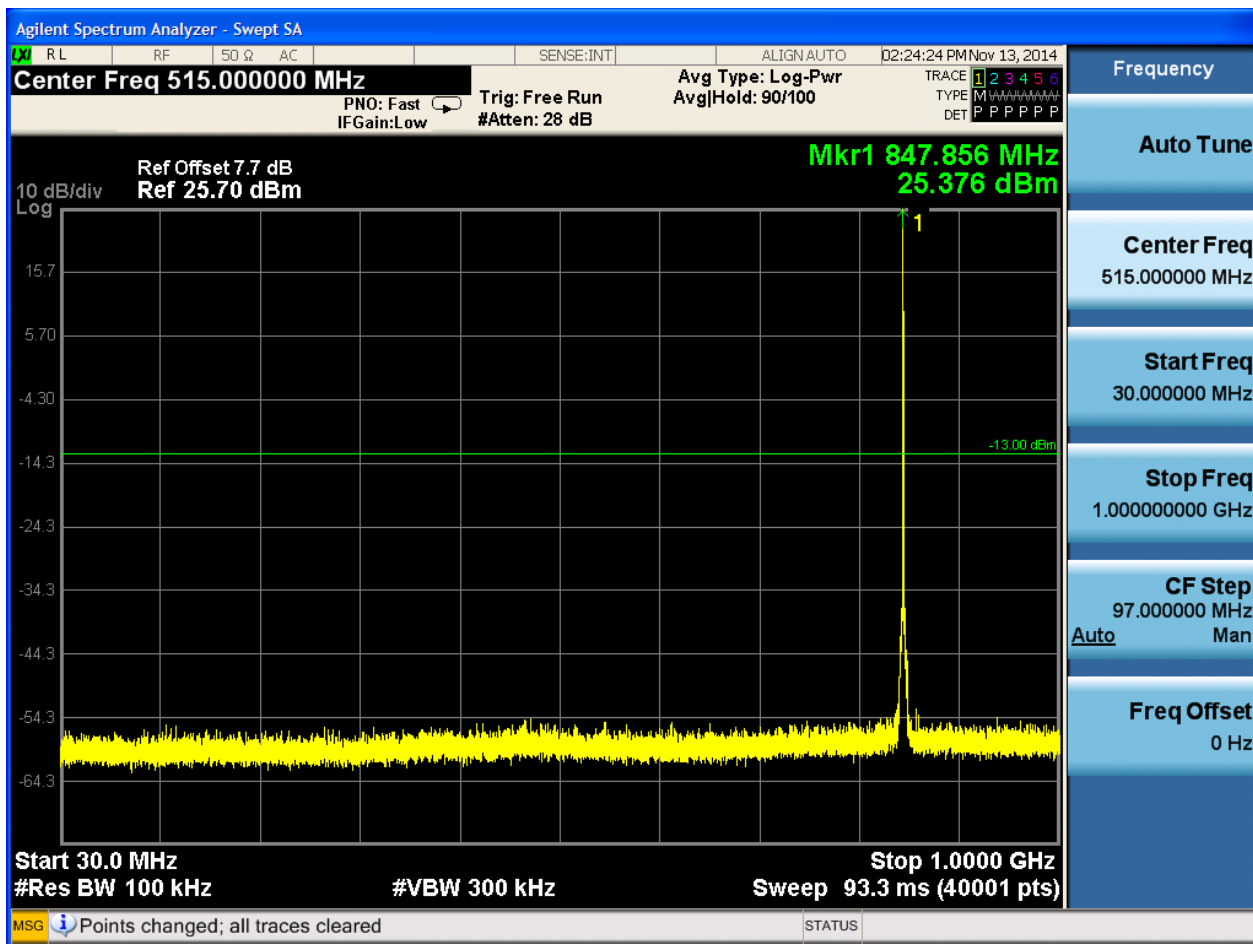


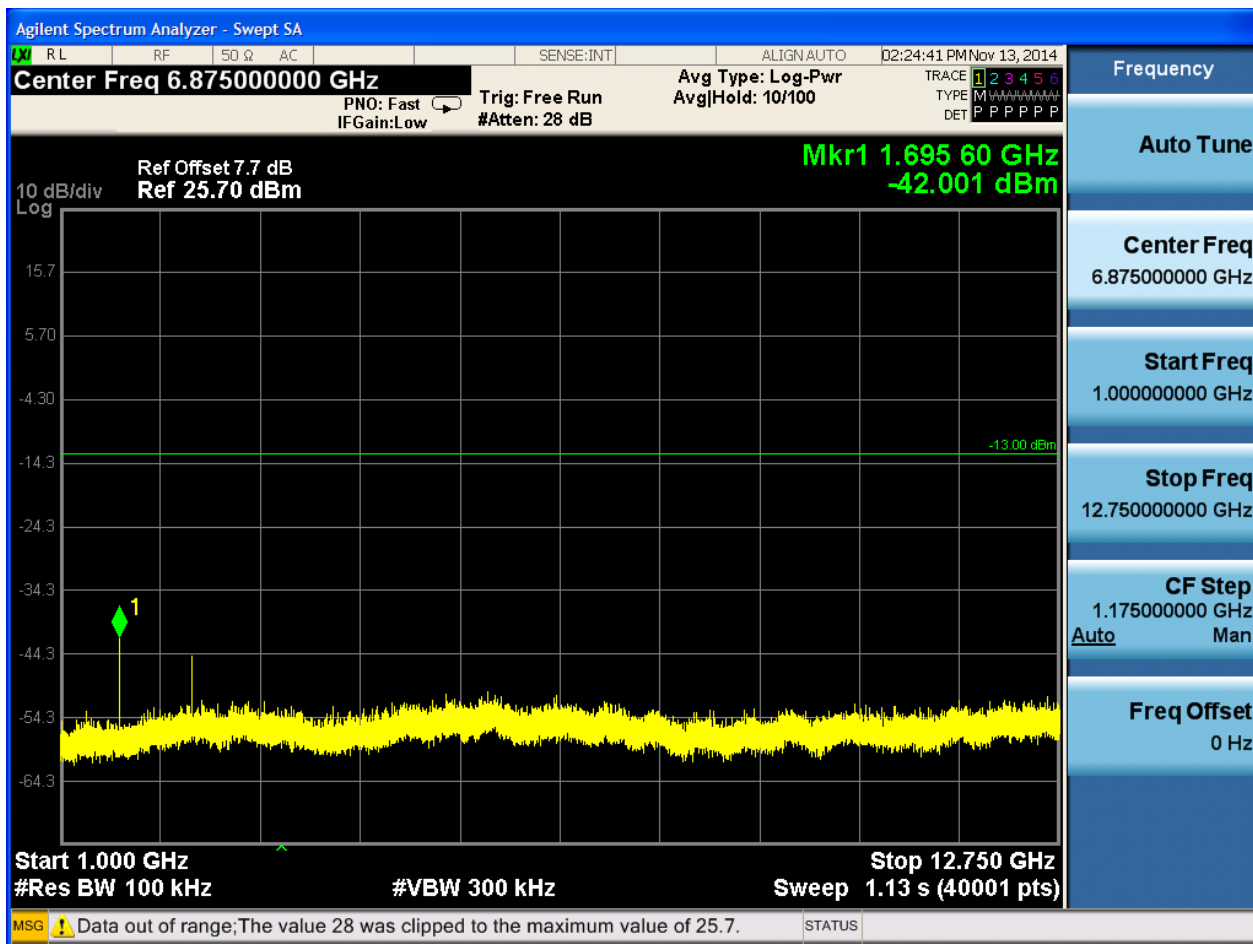
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







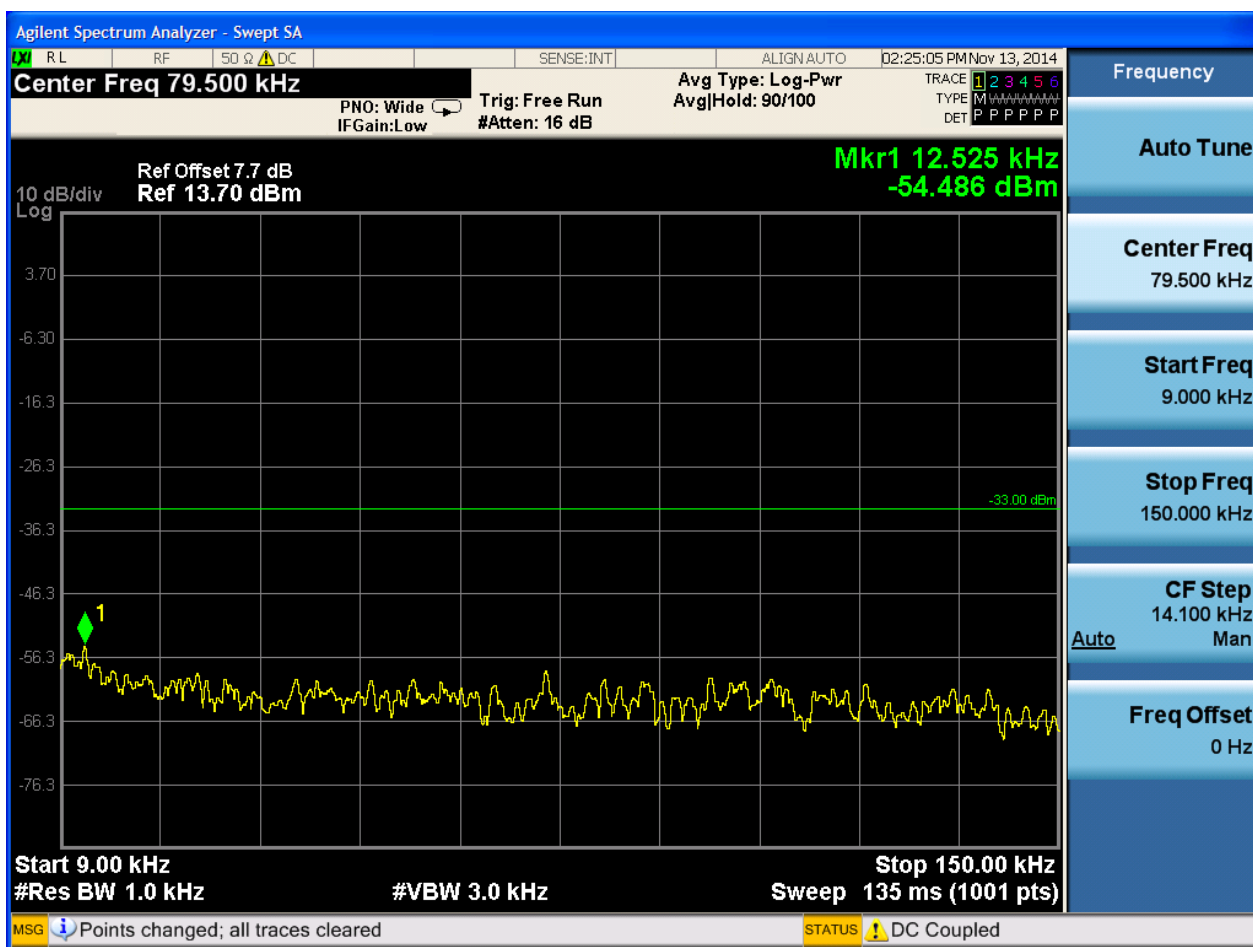


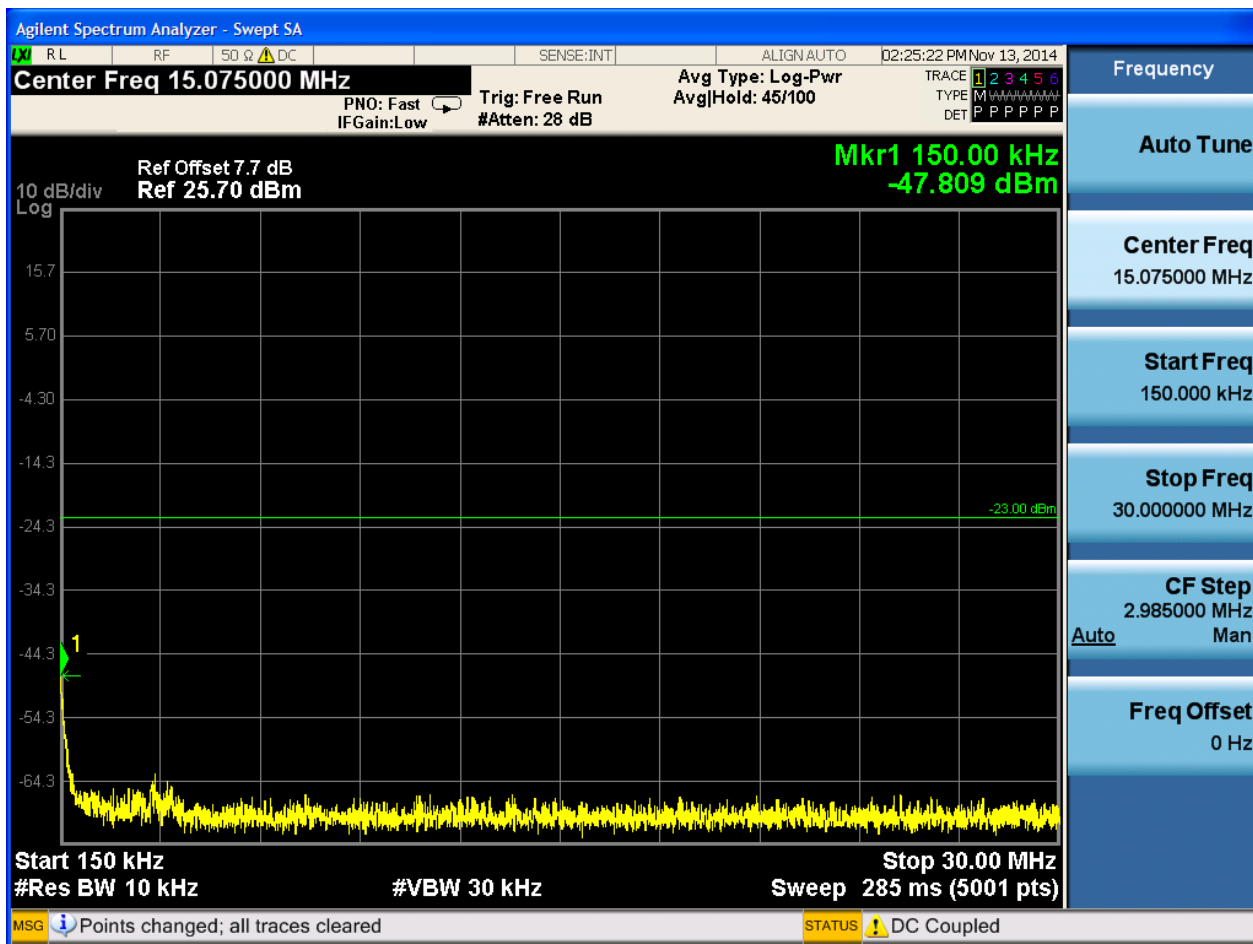


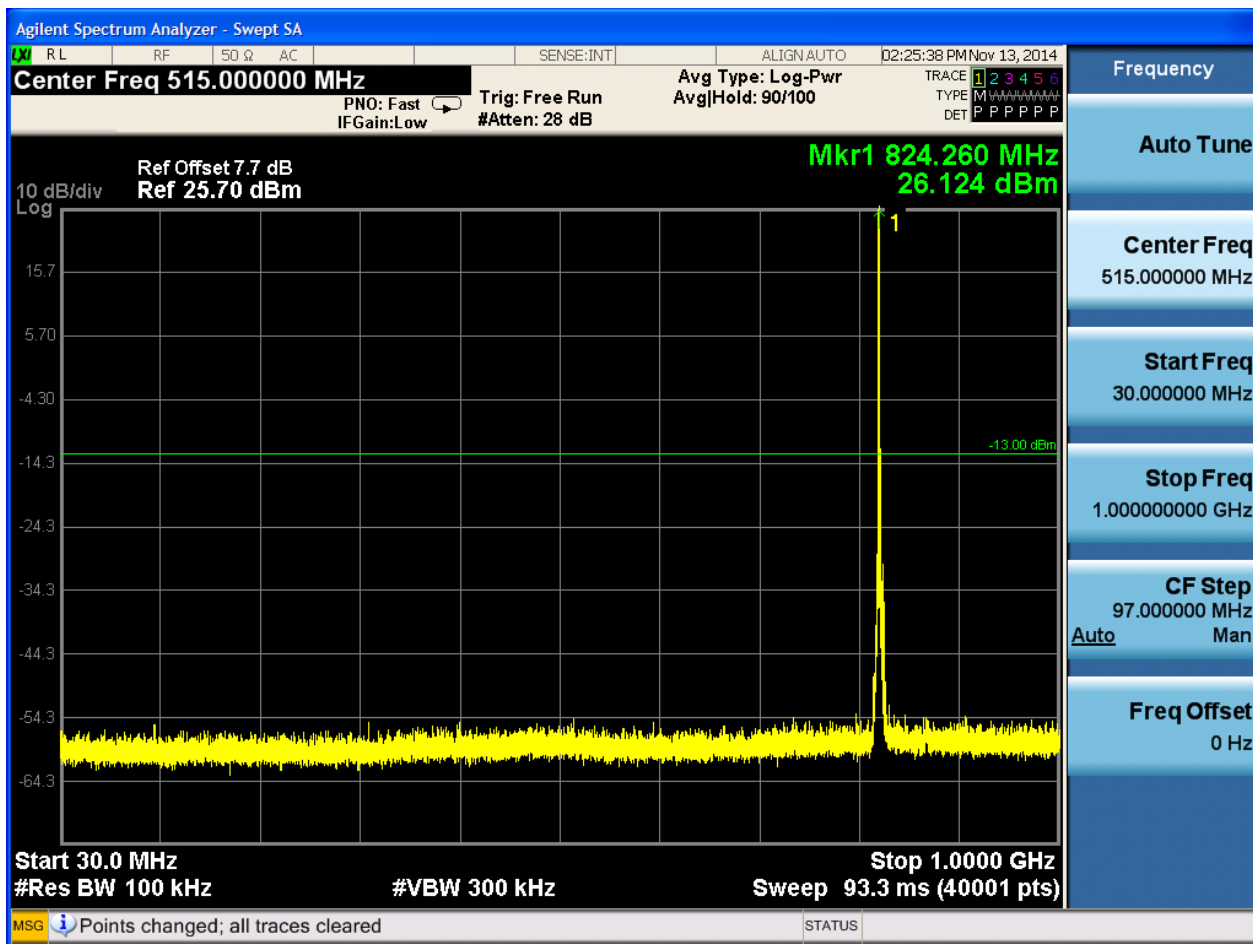
6.1.1.2.2 Test Bandwidth = 3

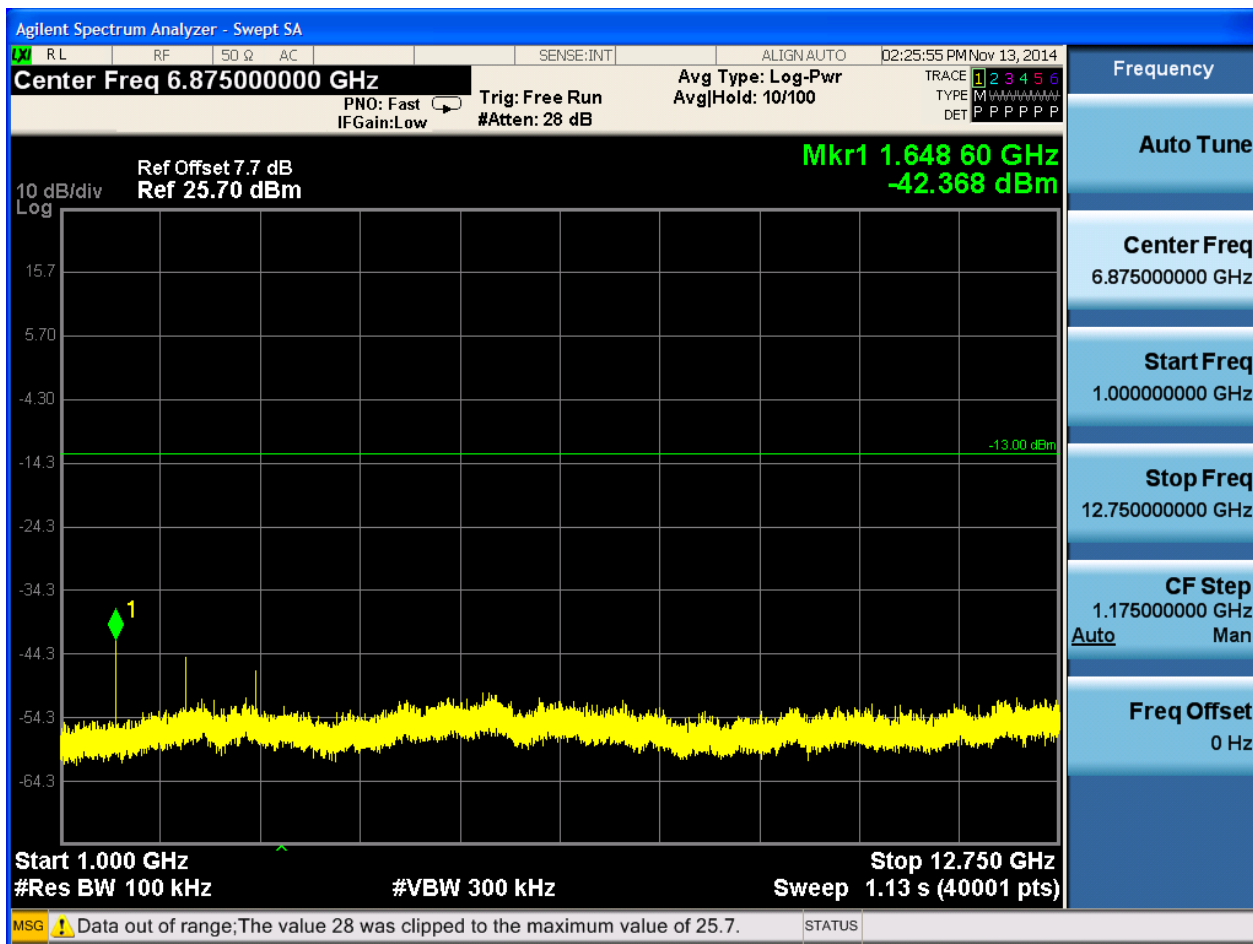
6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





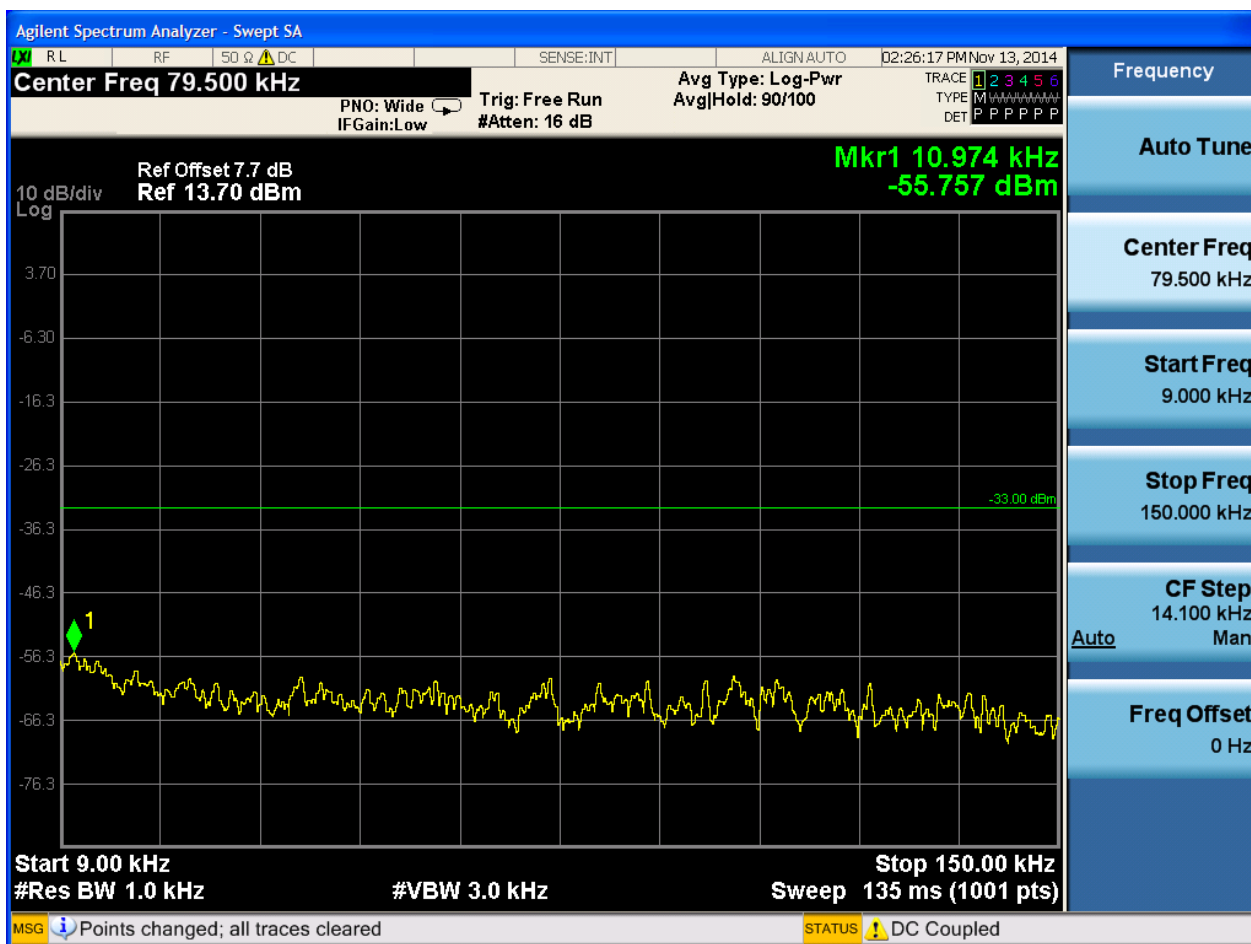


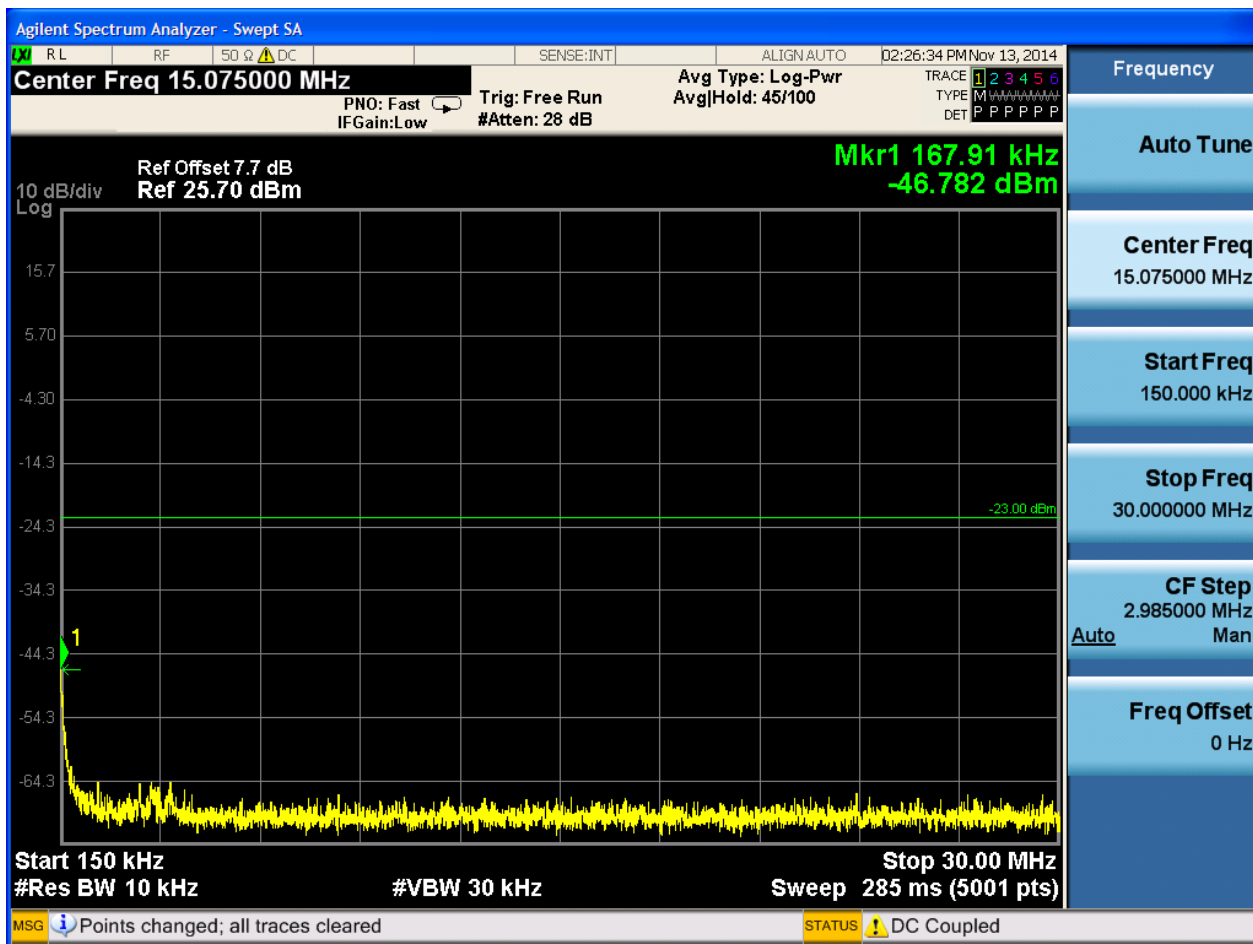


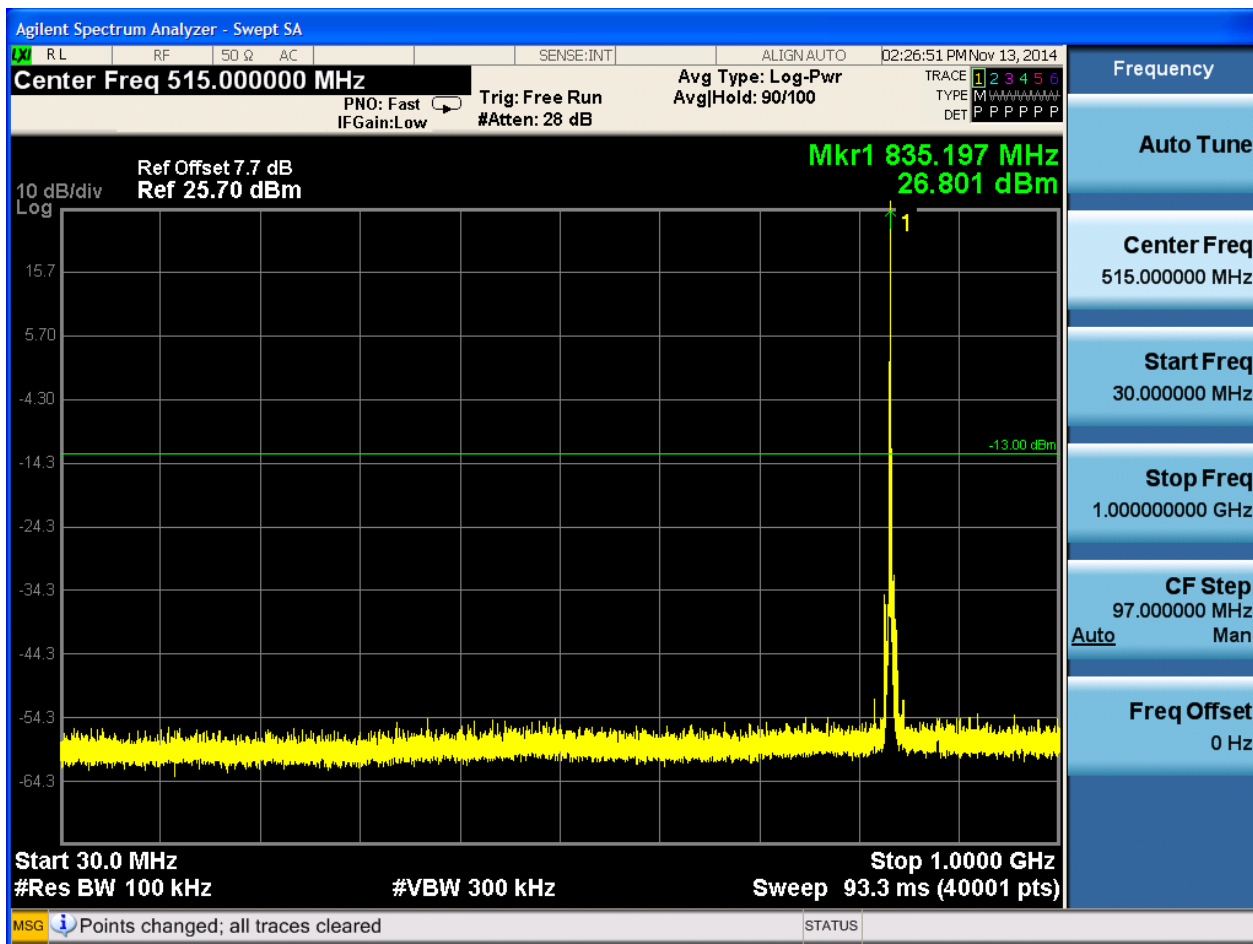


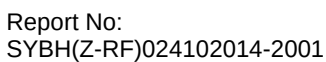
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



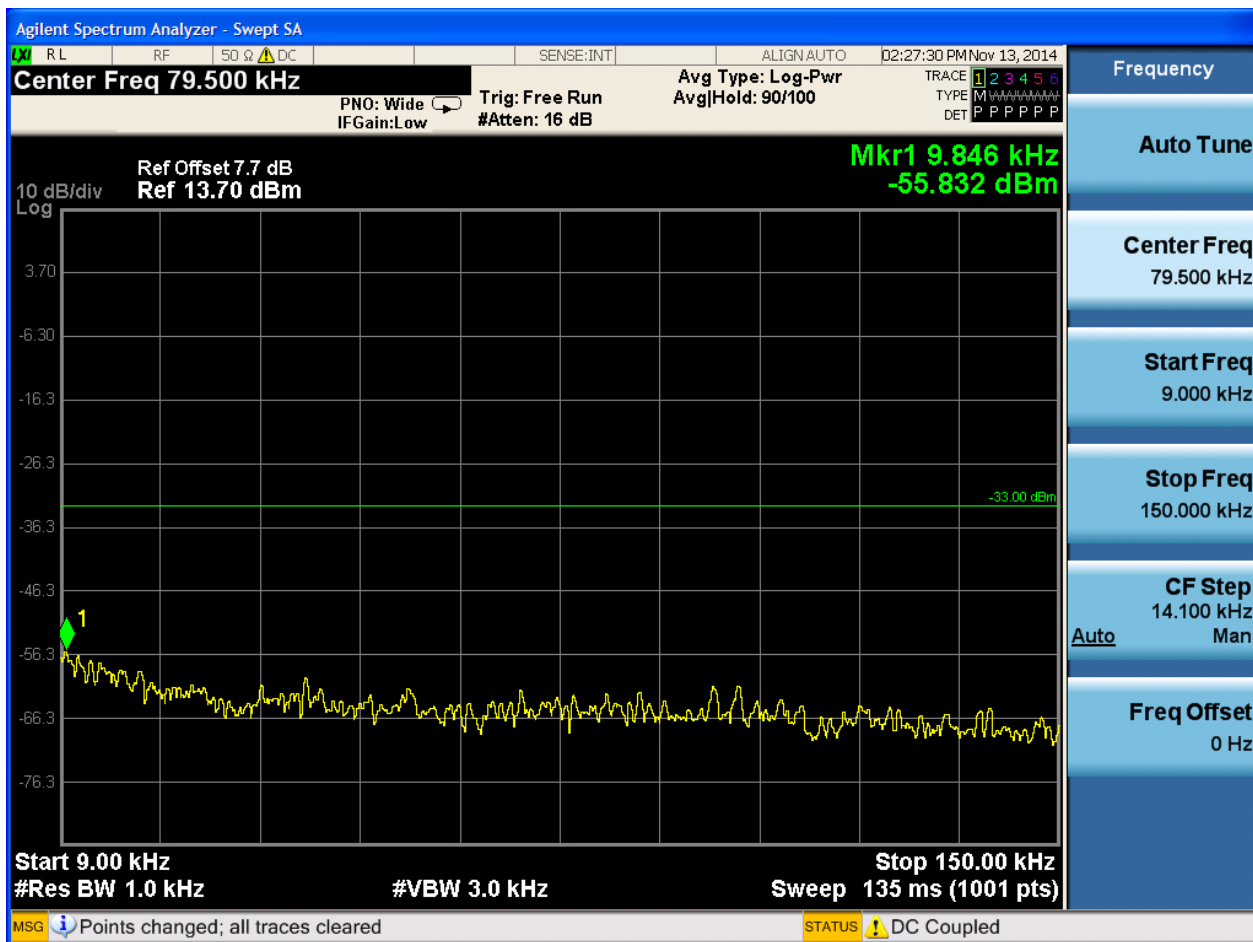


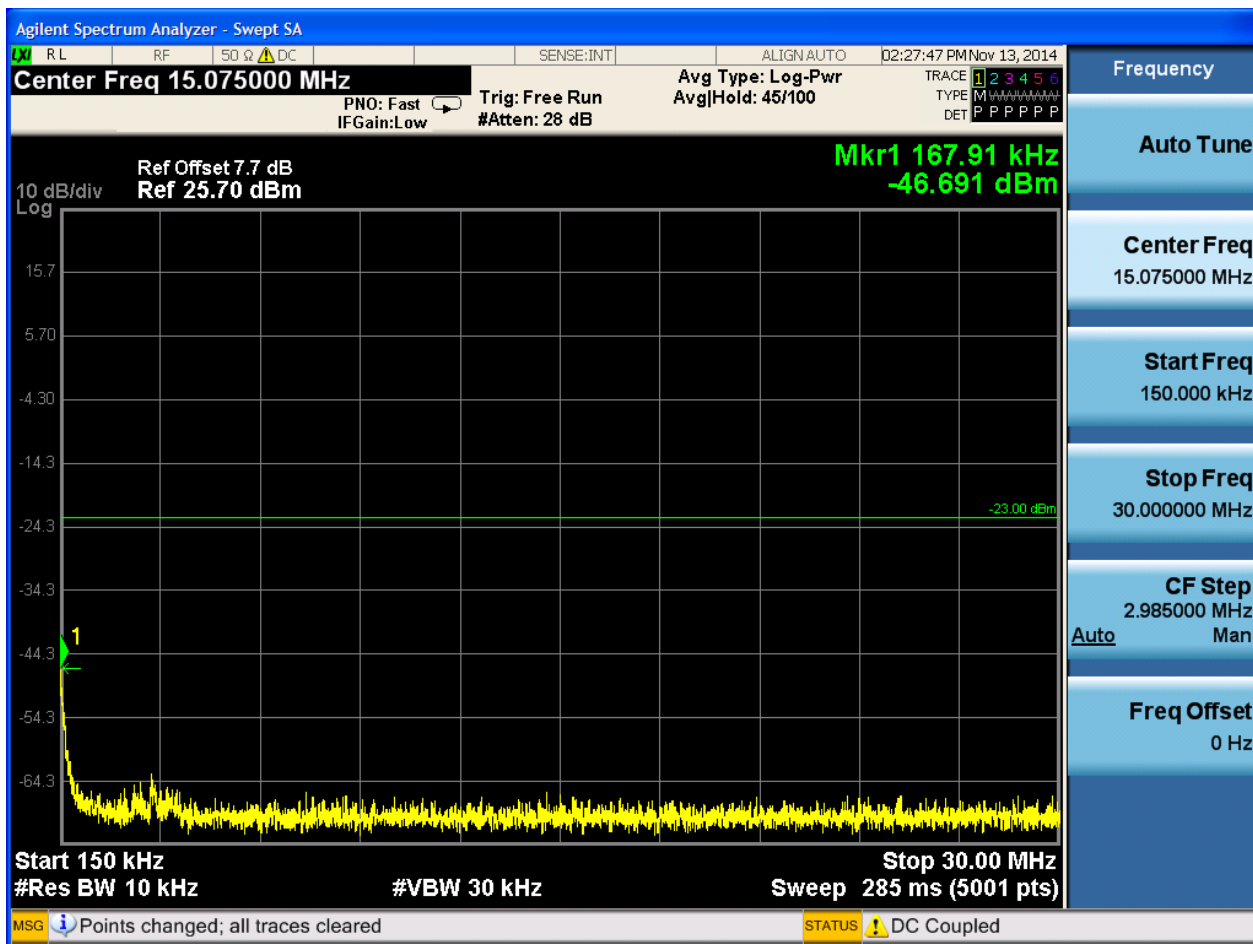


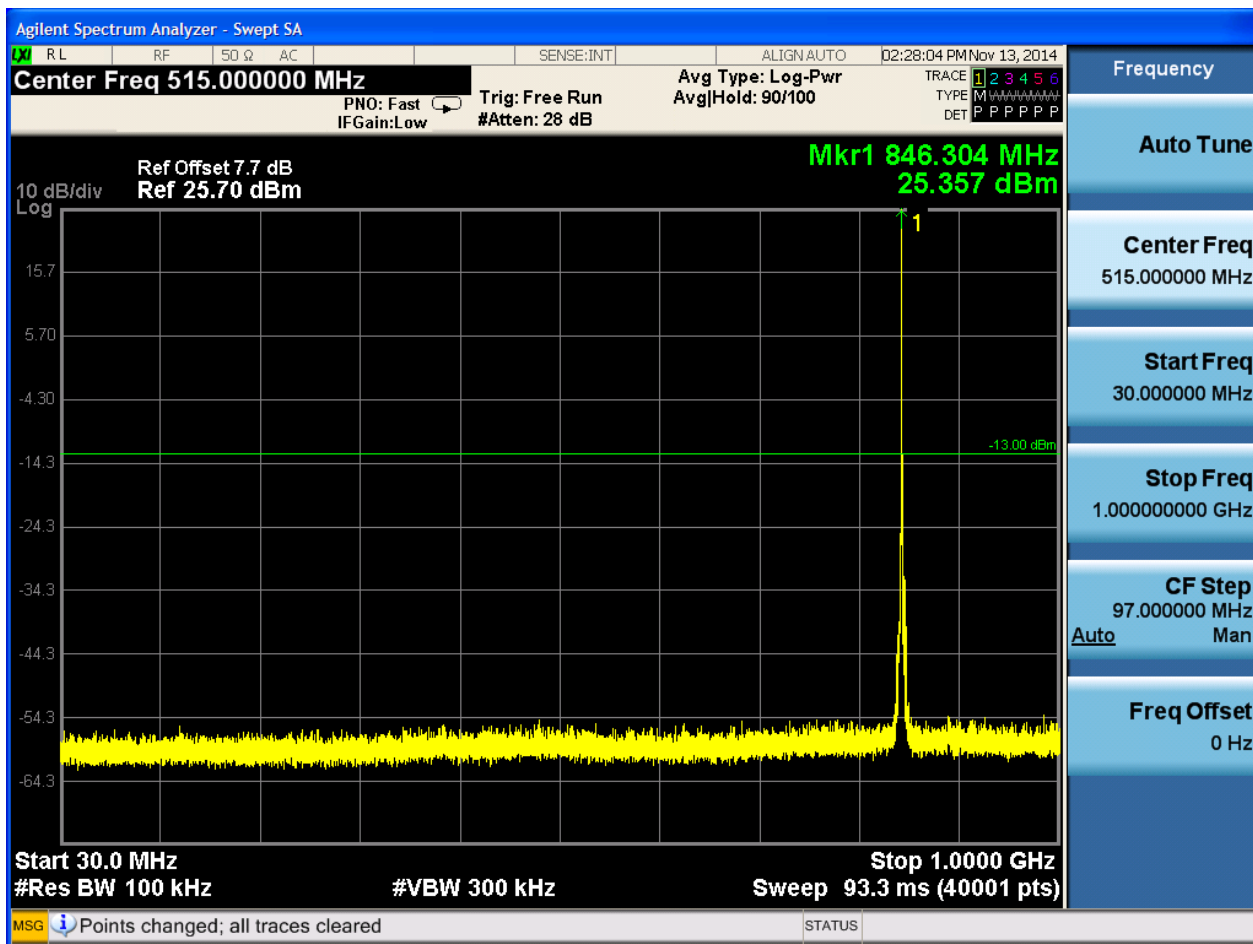


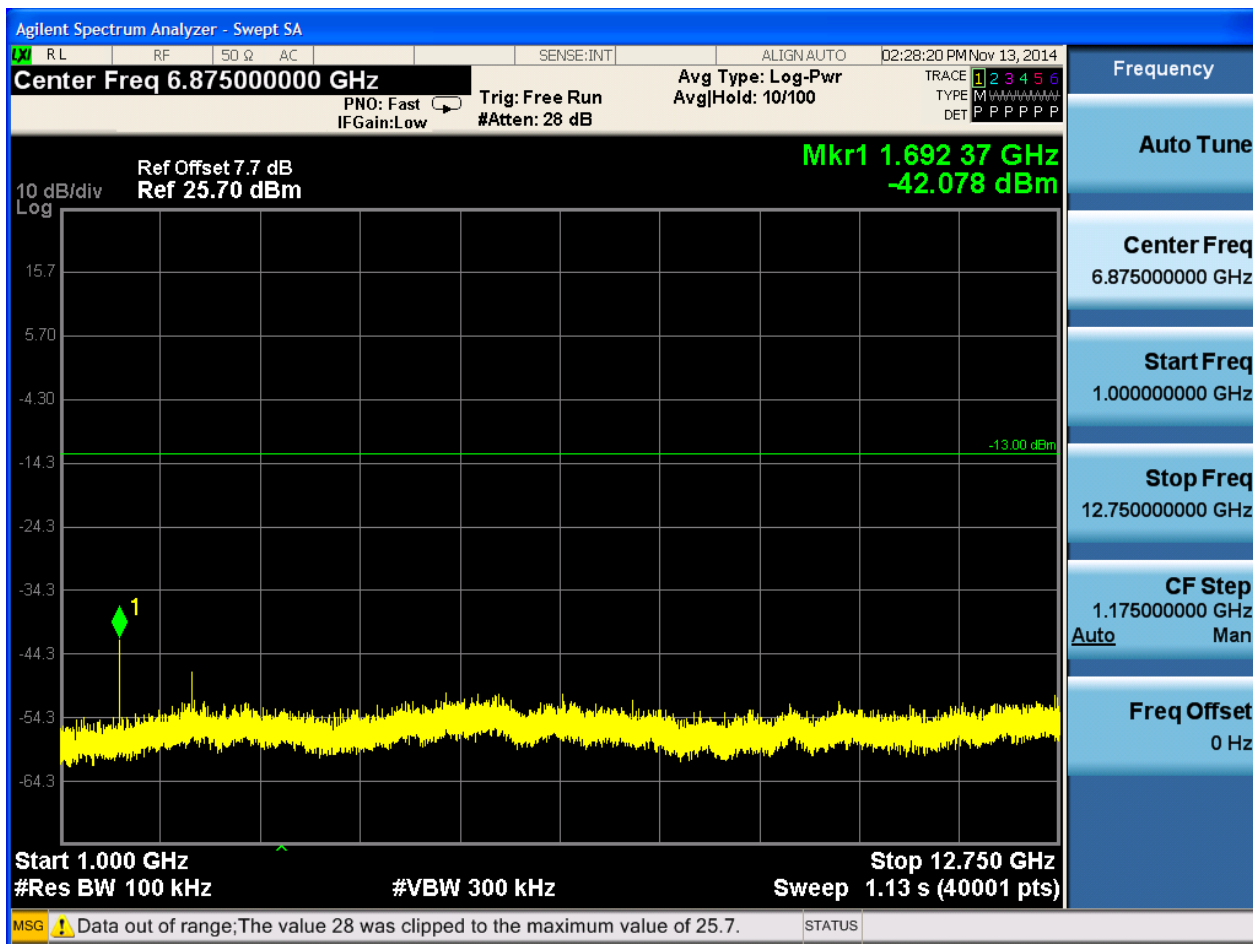
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0

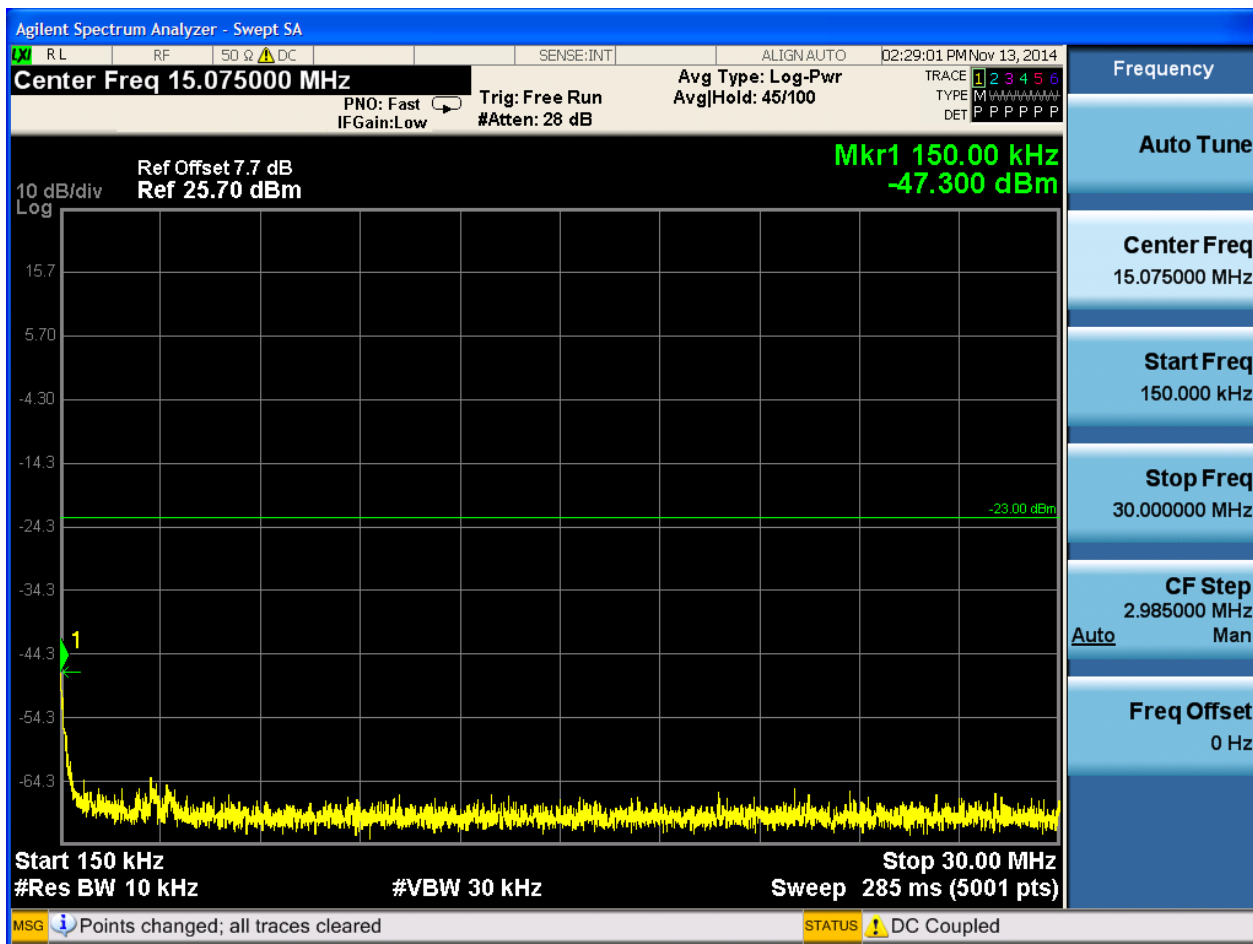


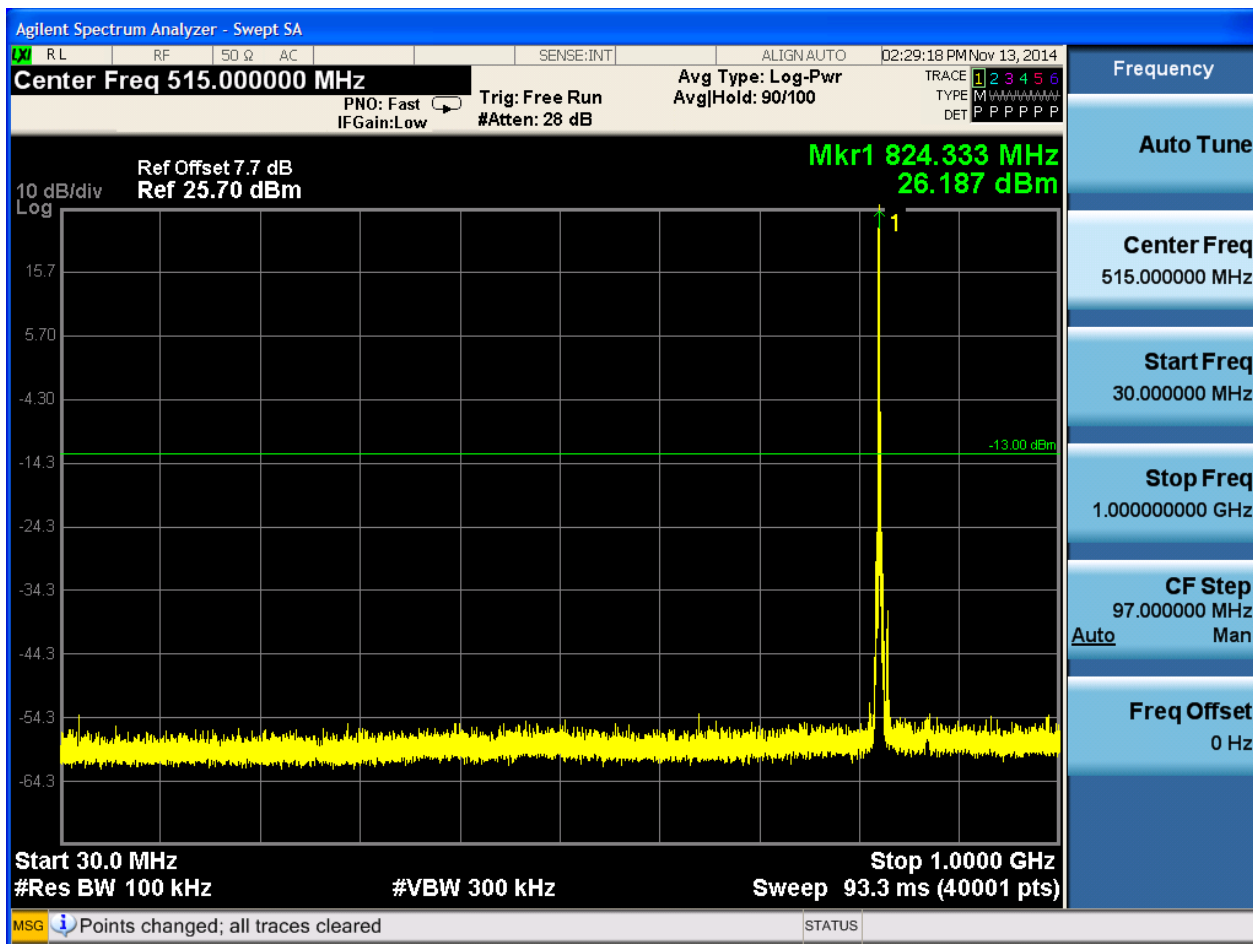


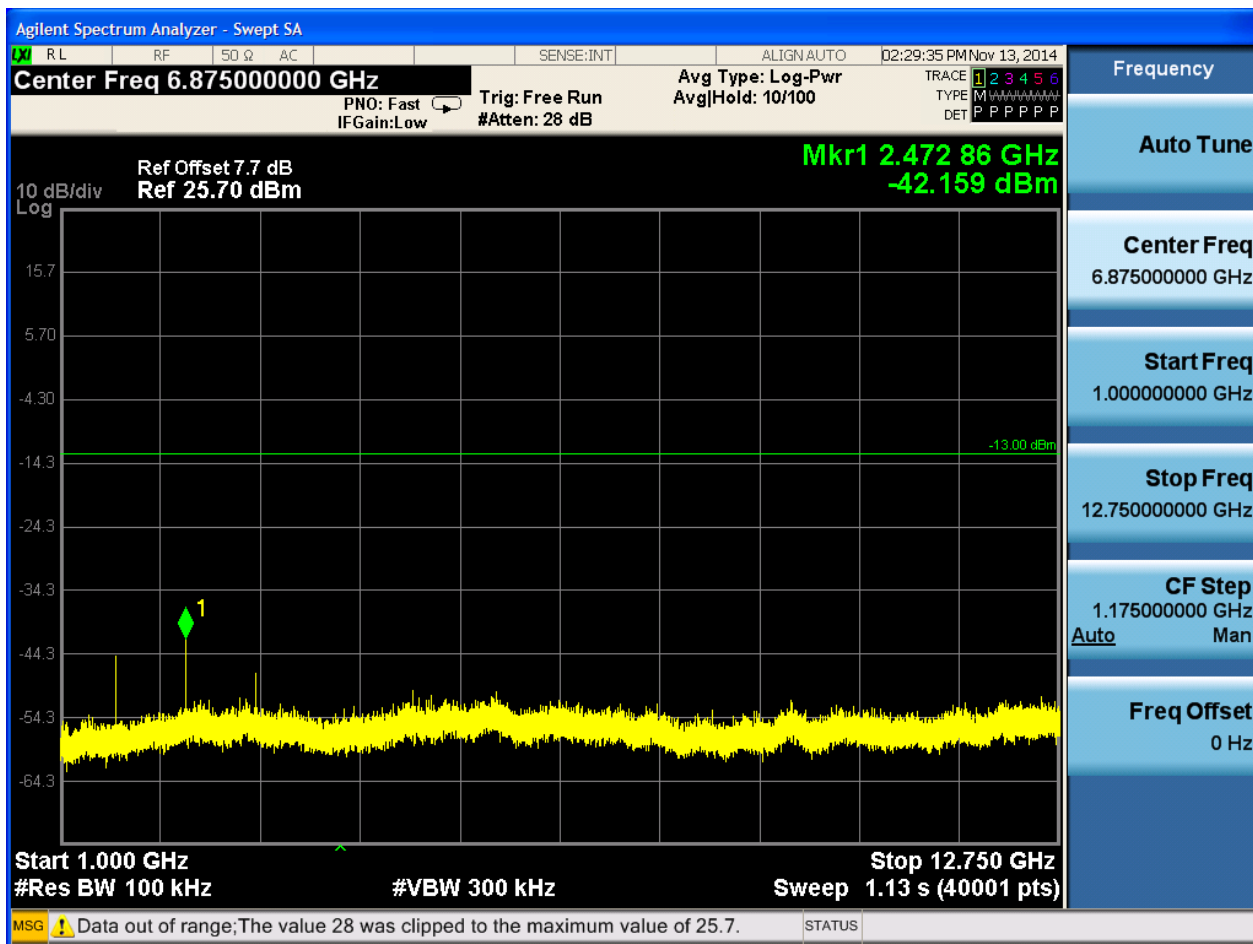








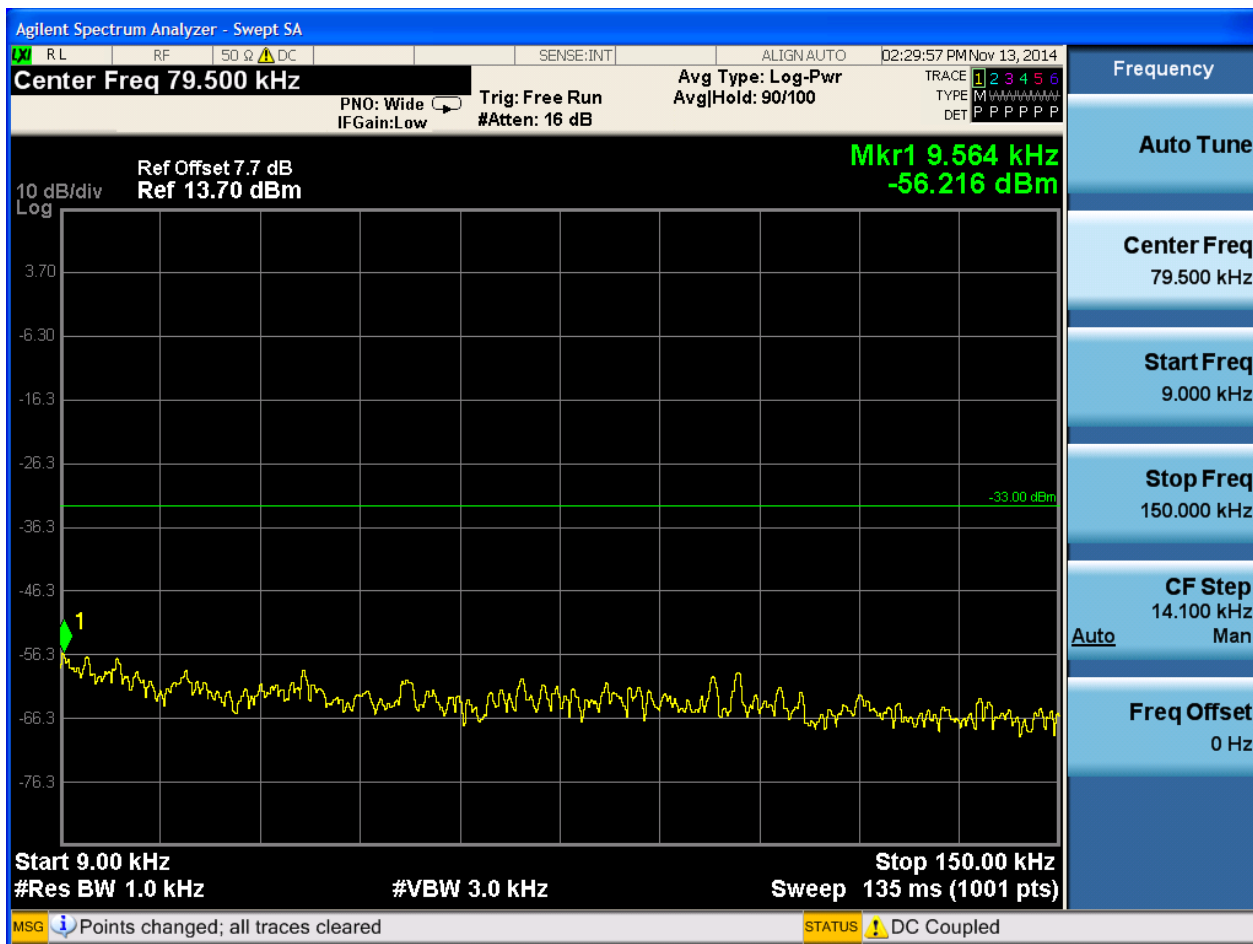


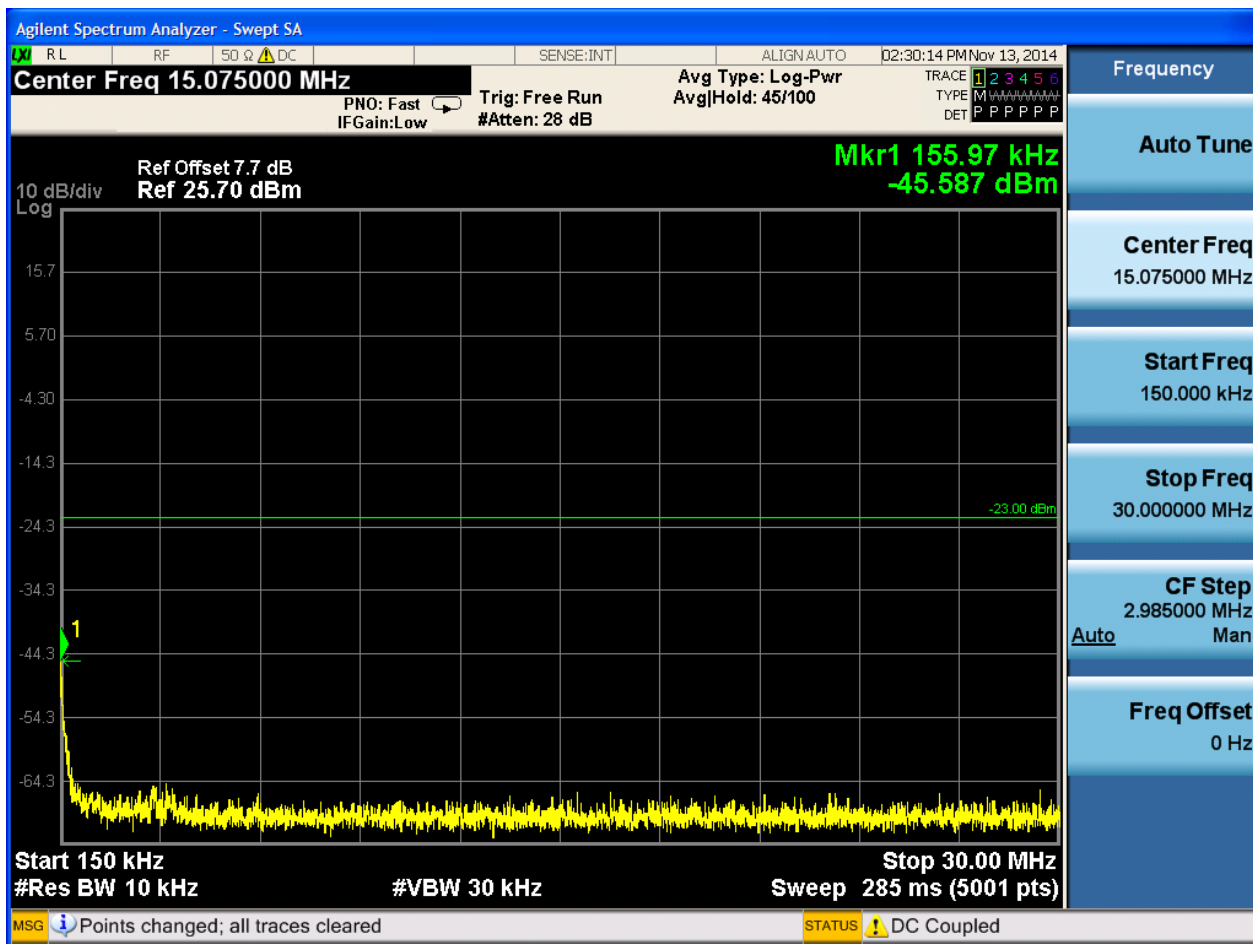


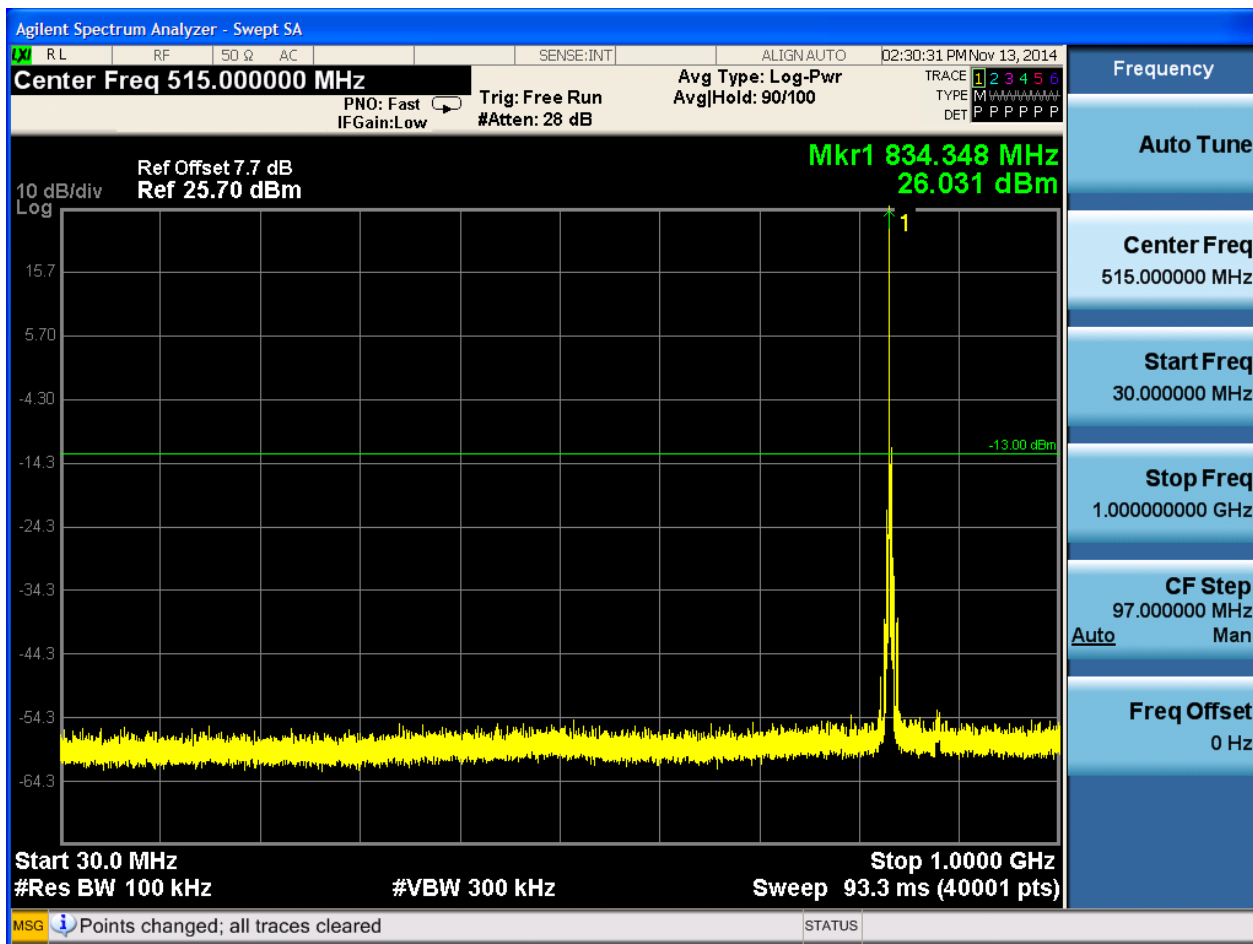


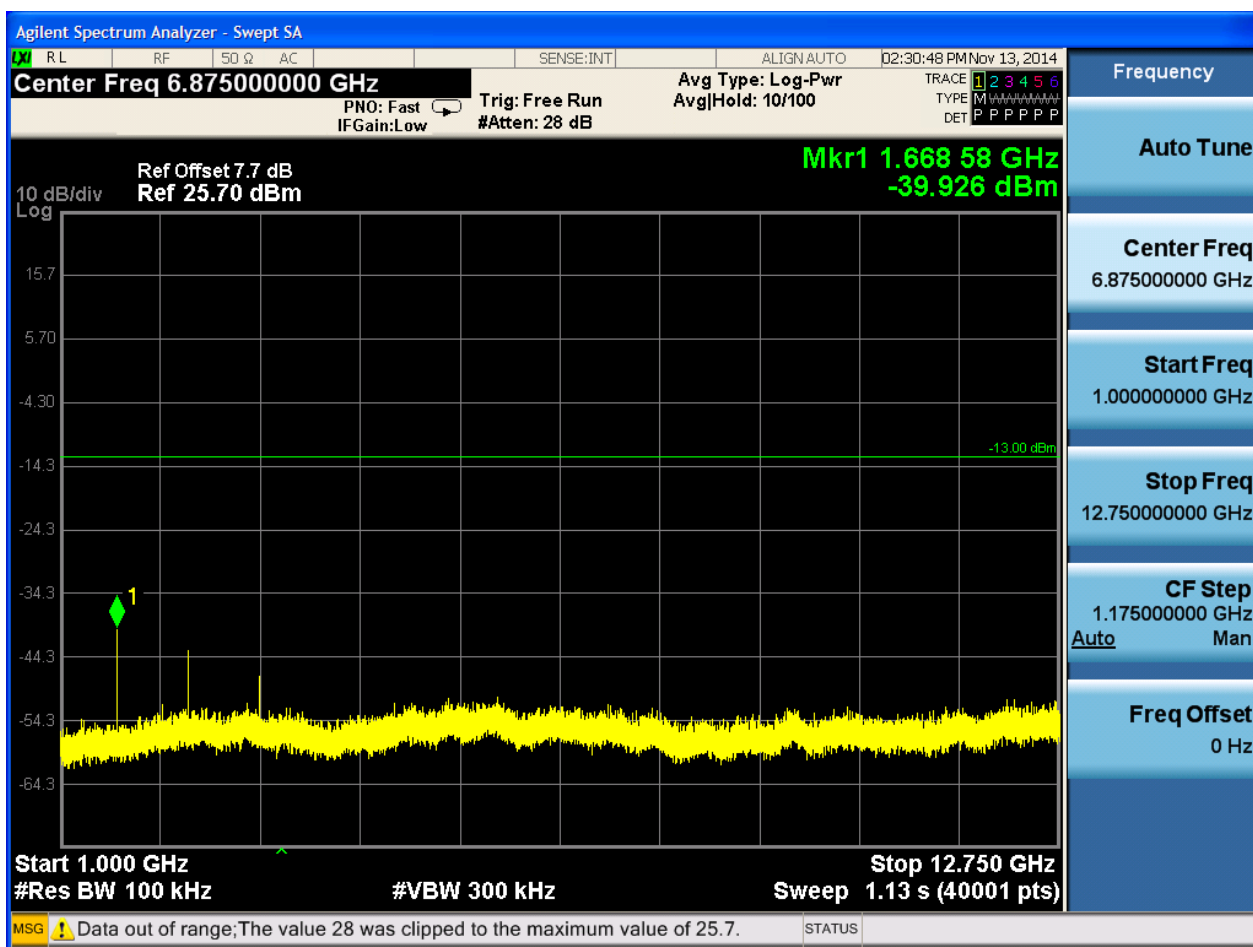
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



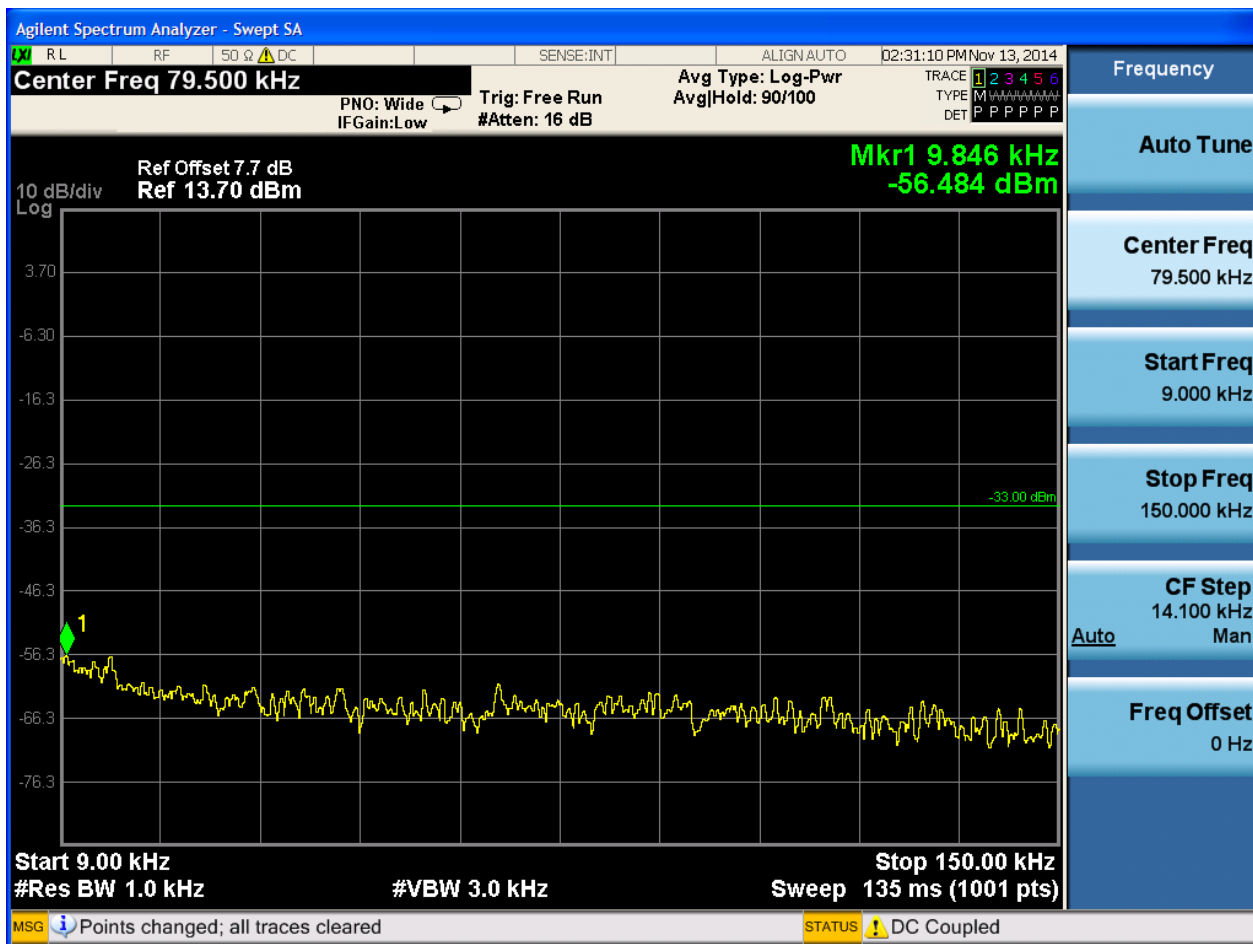


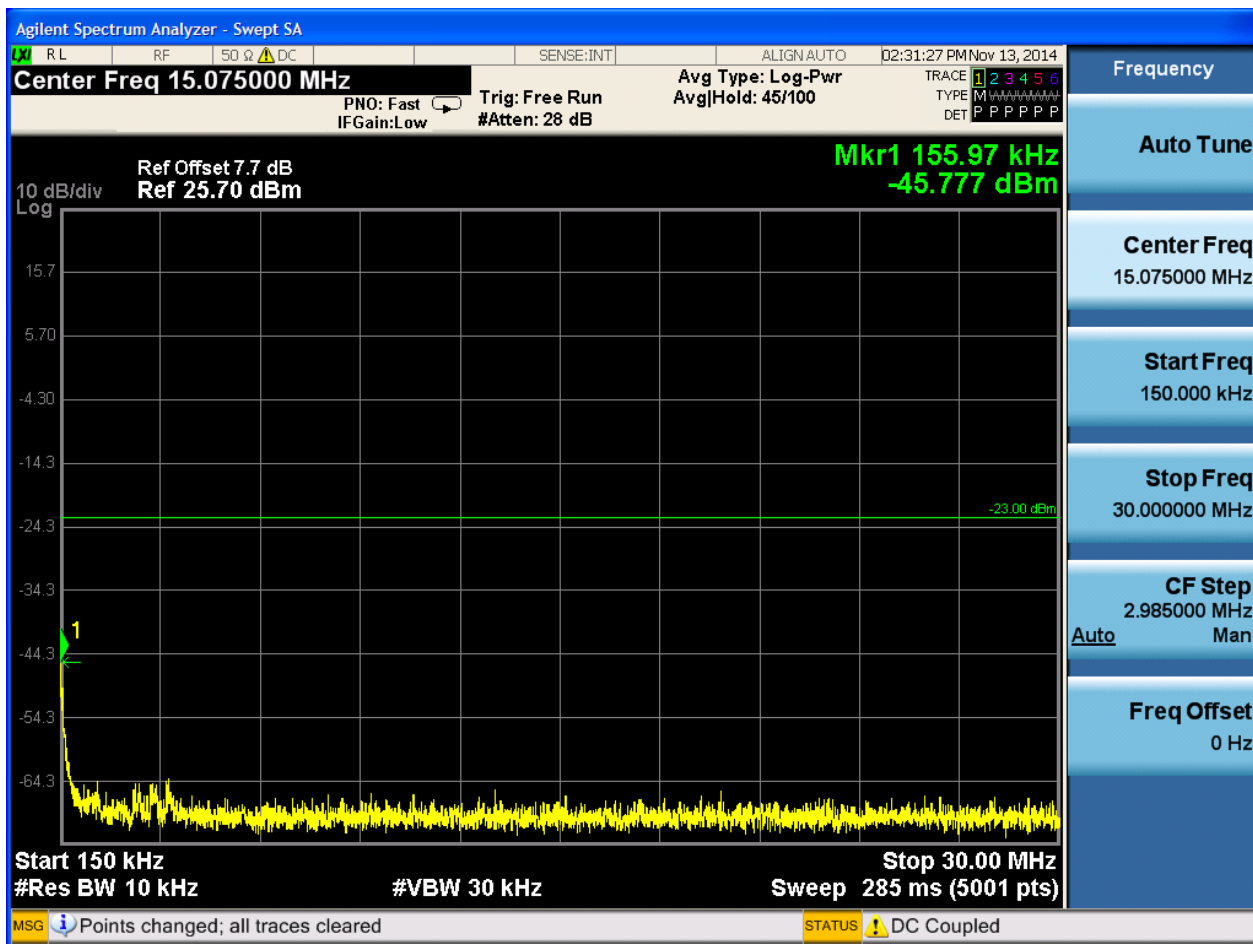


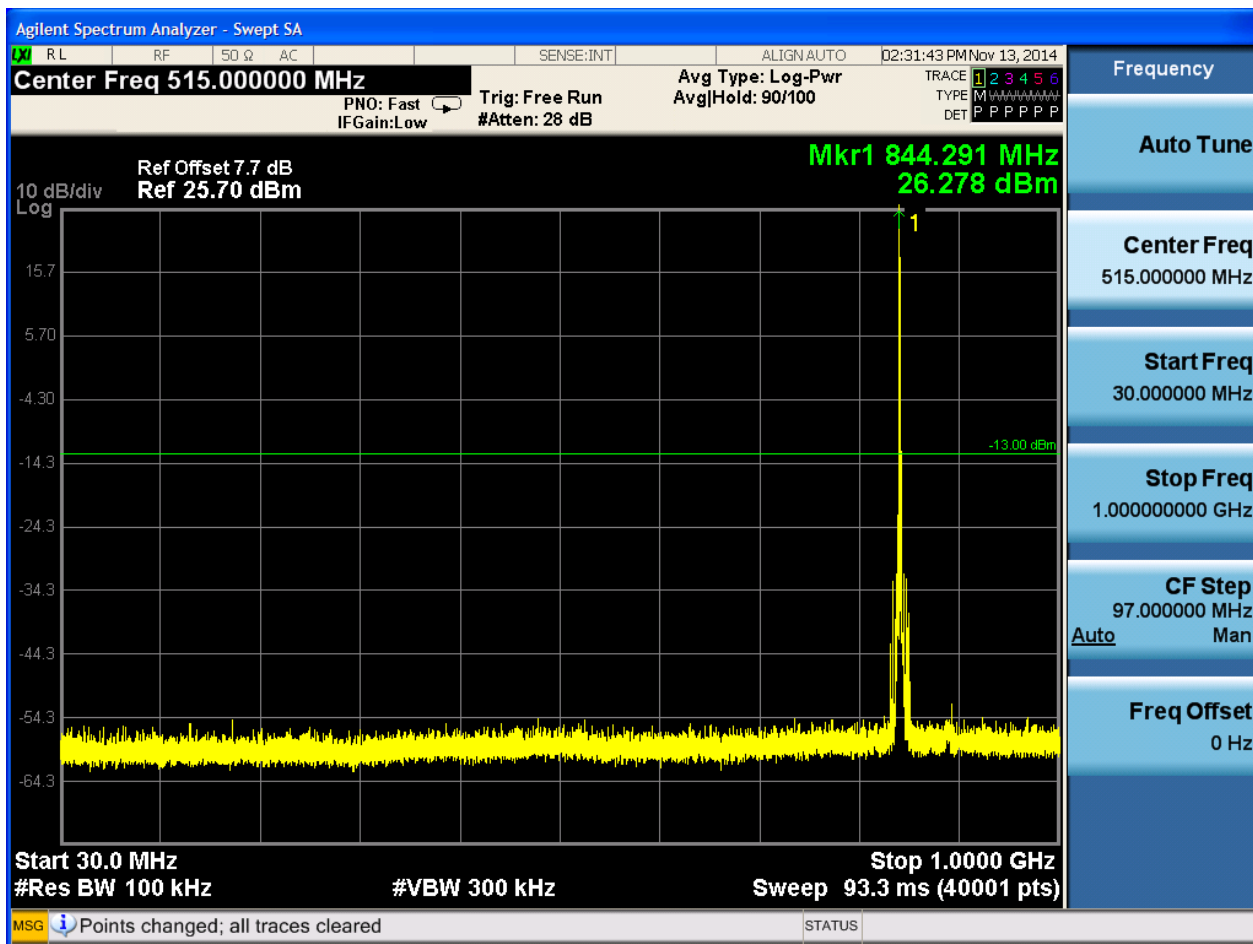


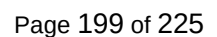
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







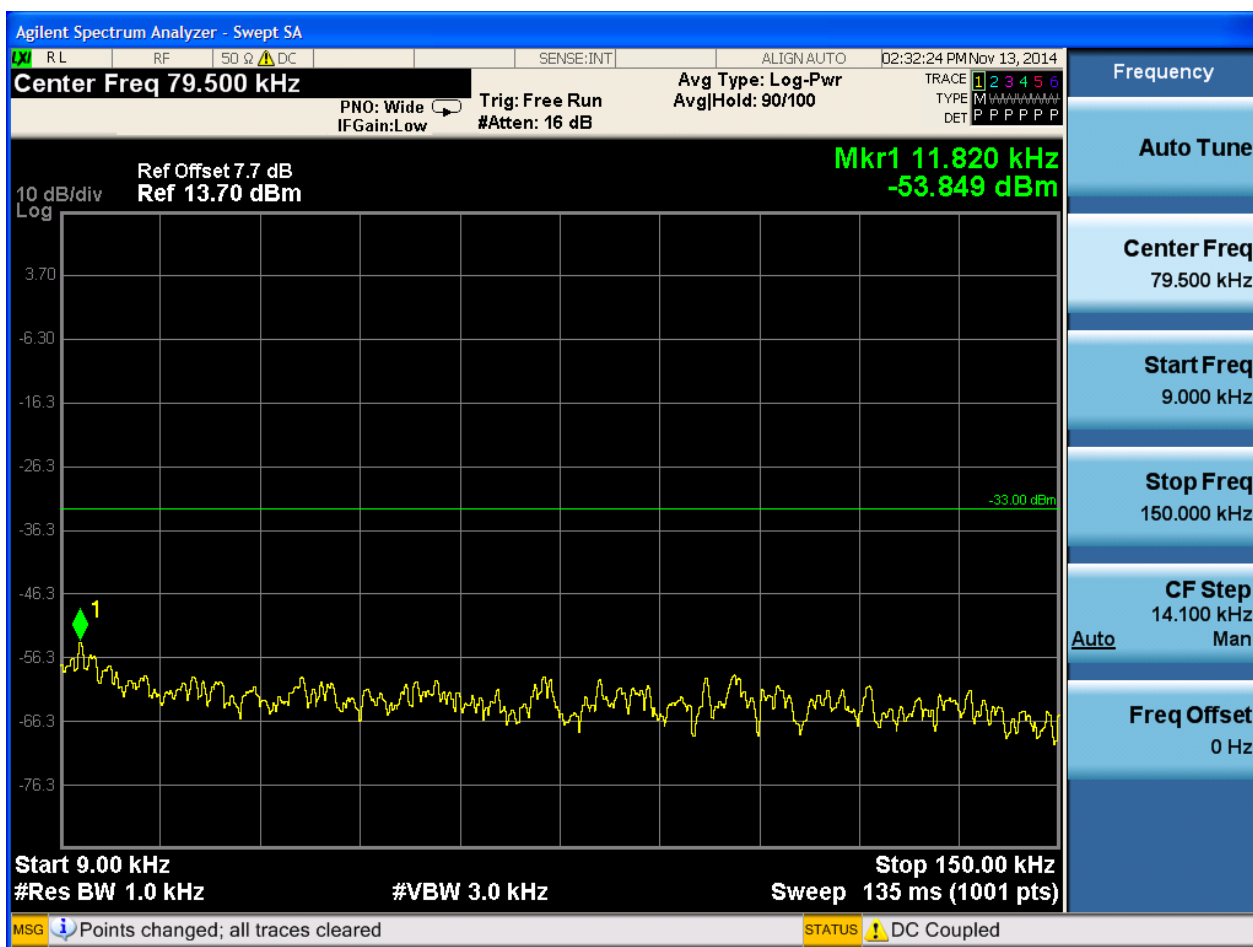


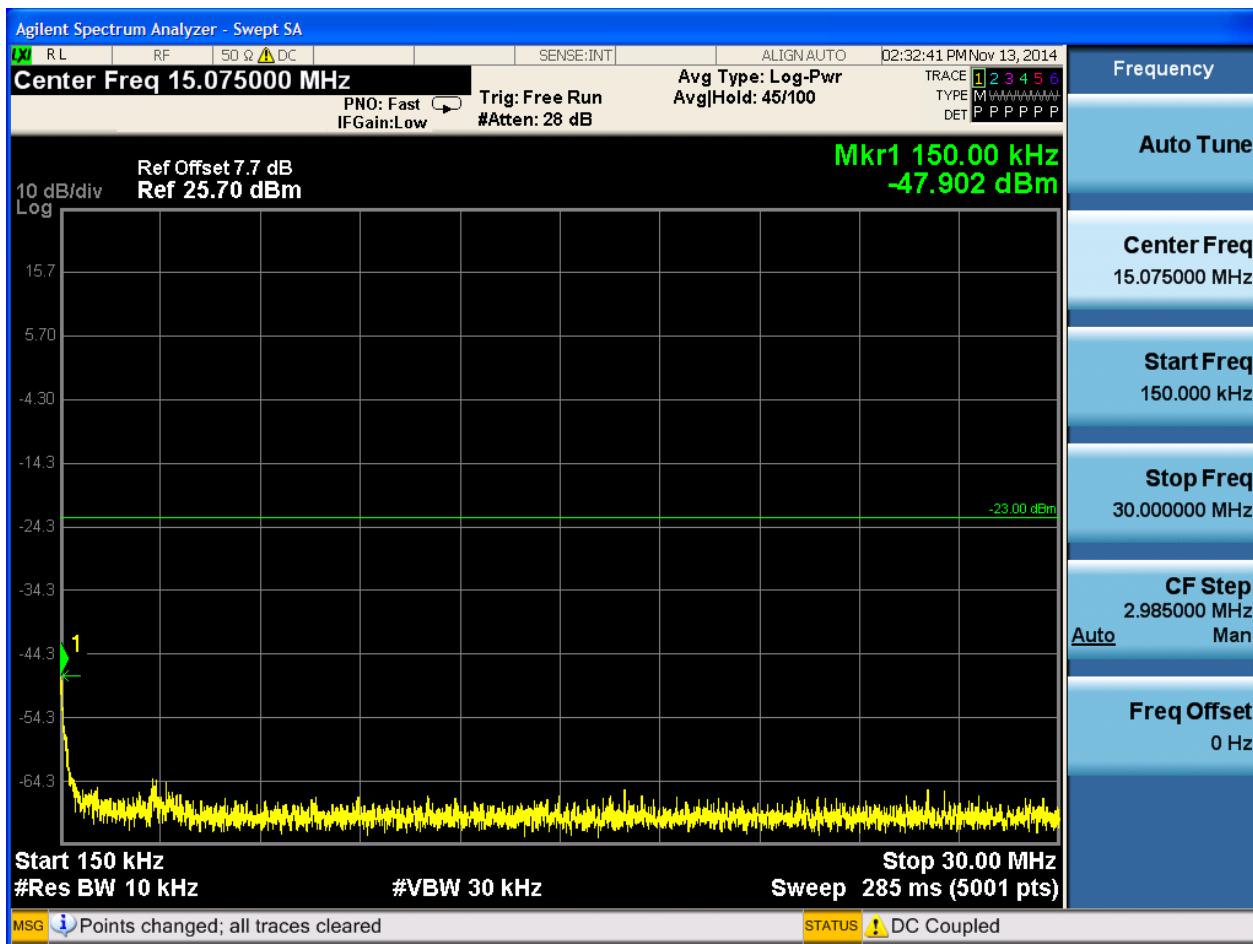


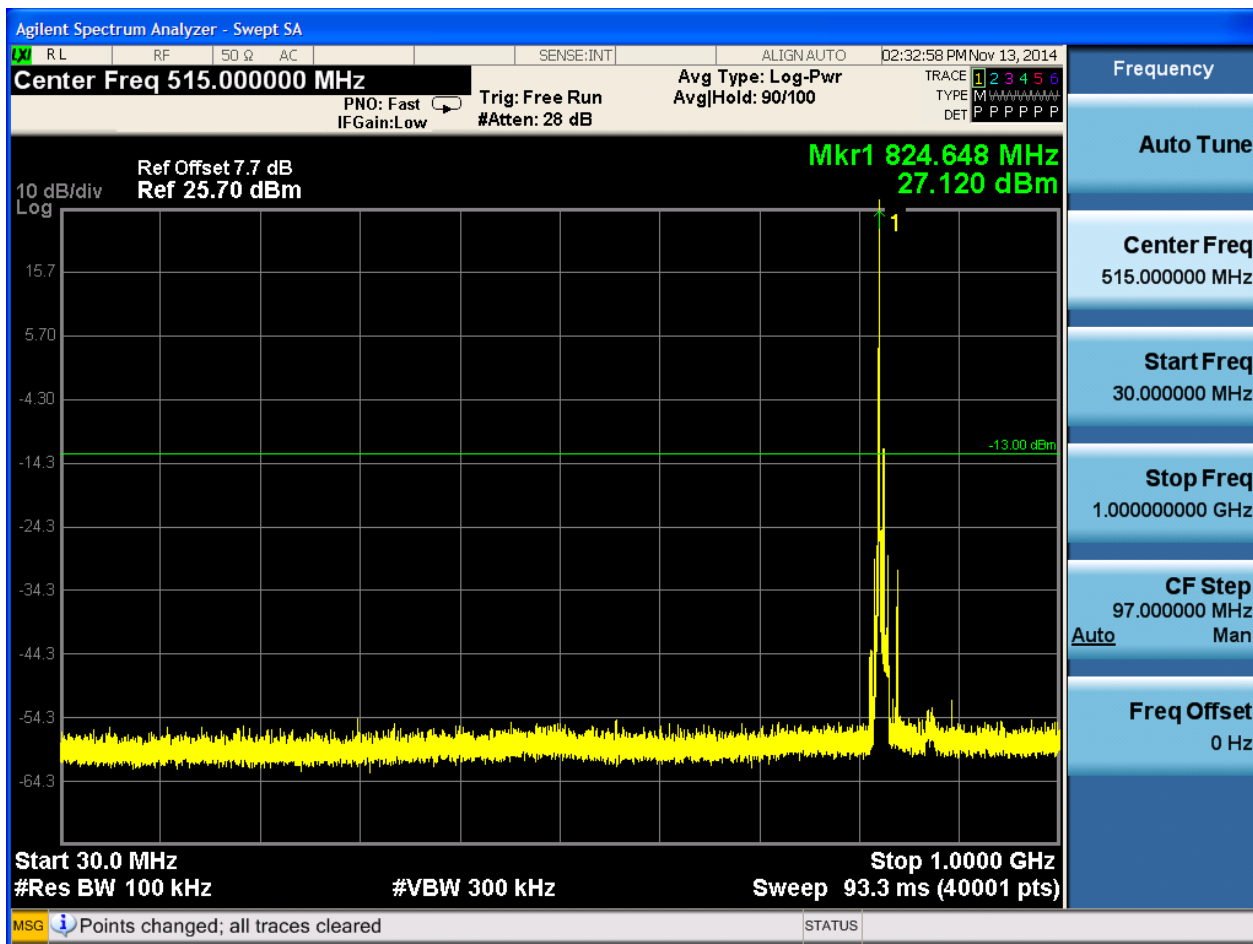
6.1.1.2.4 Test Bandwidth = 10

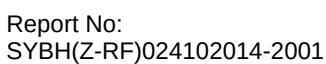
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





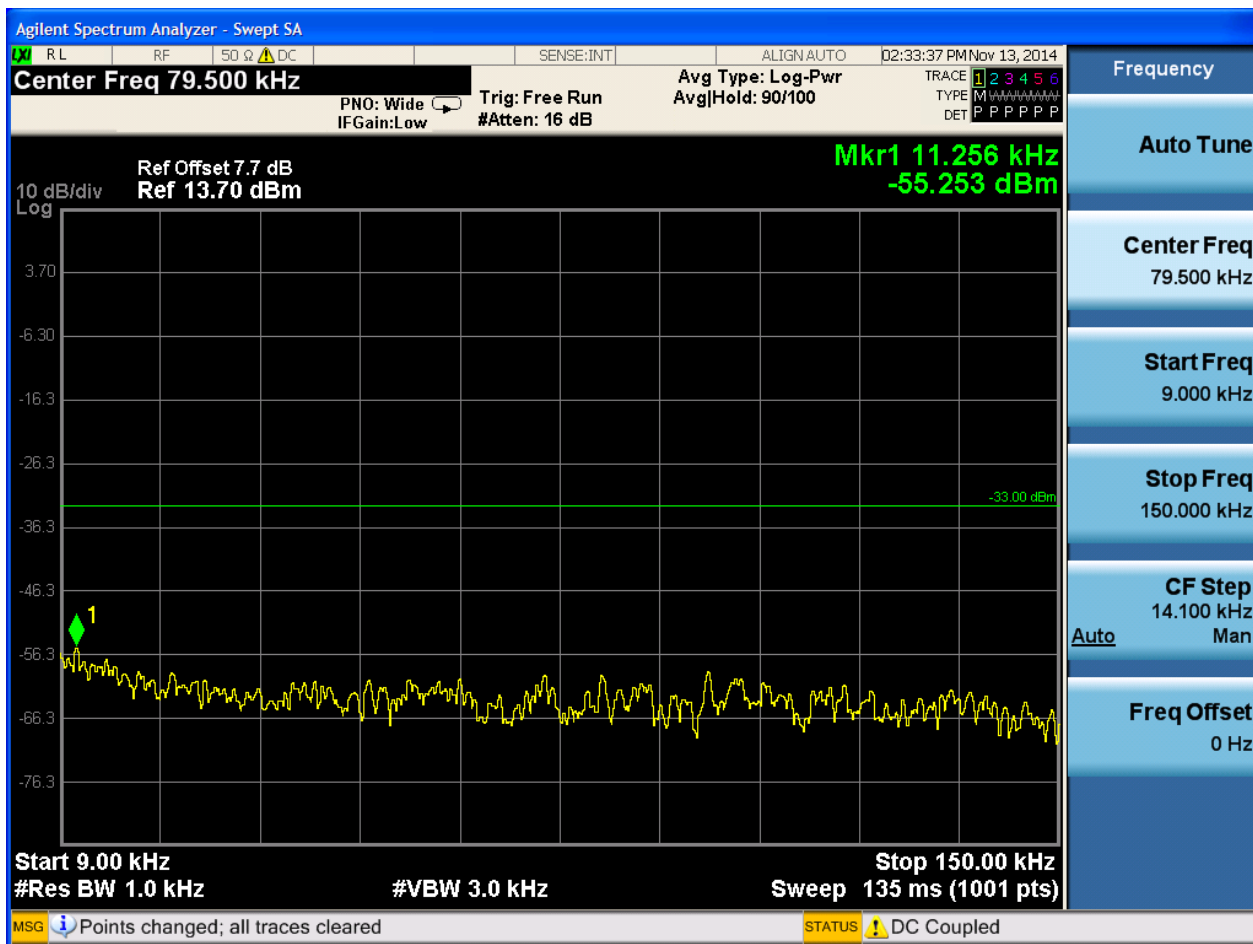


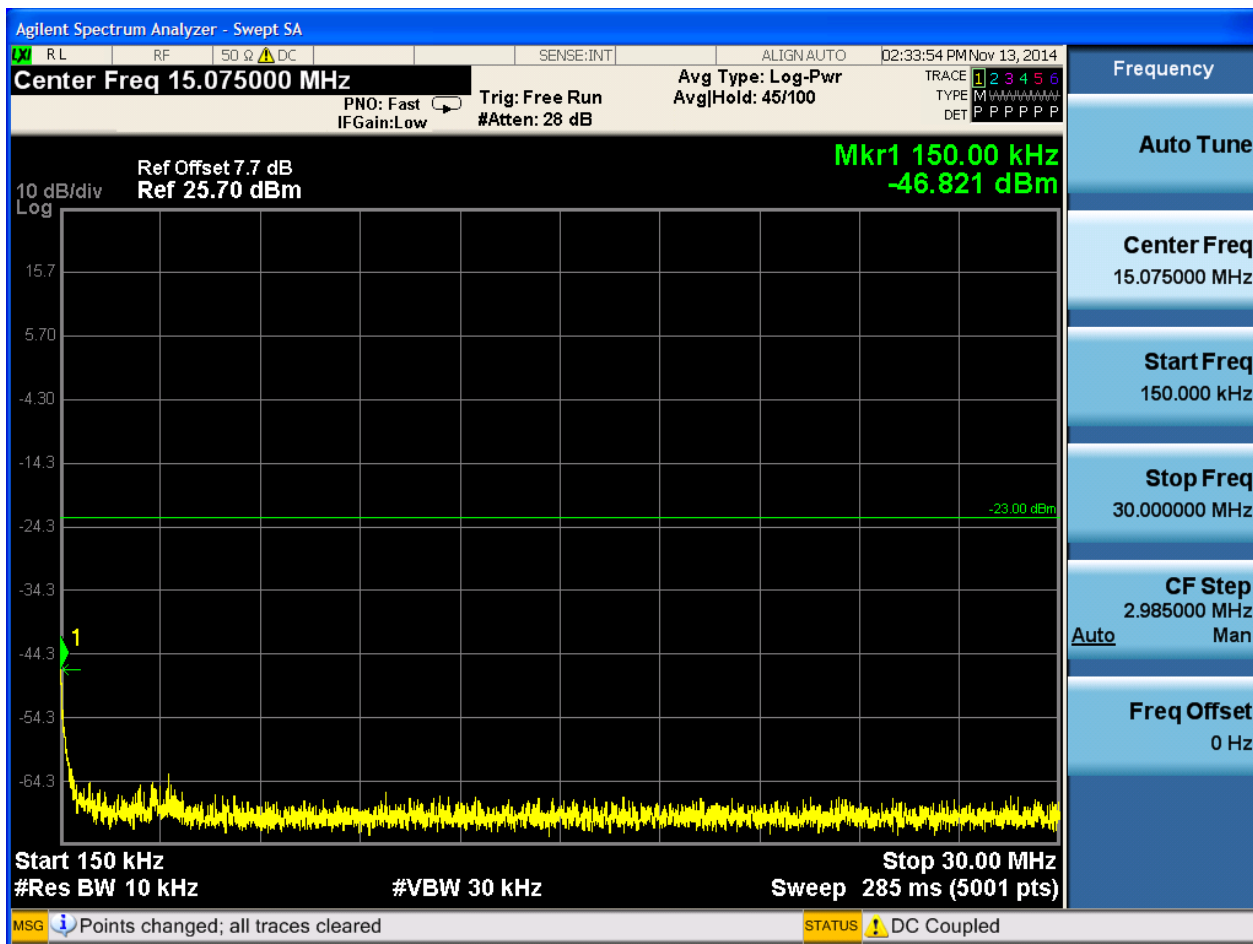


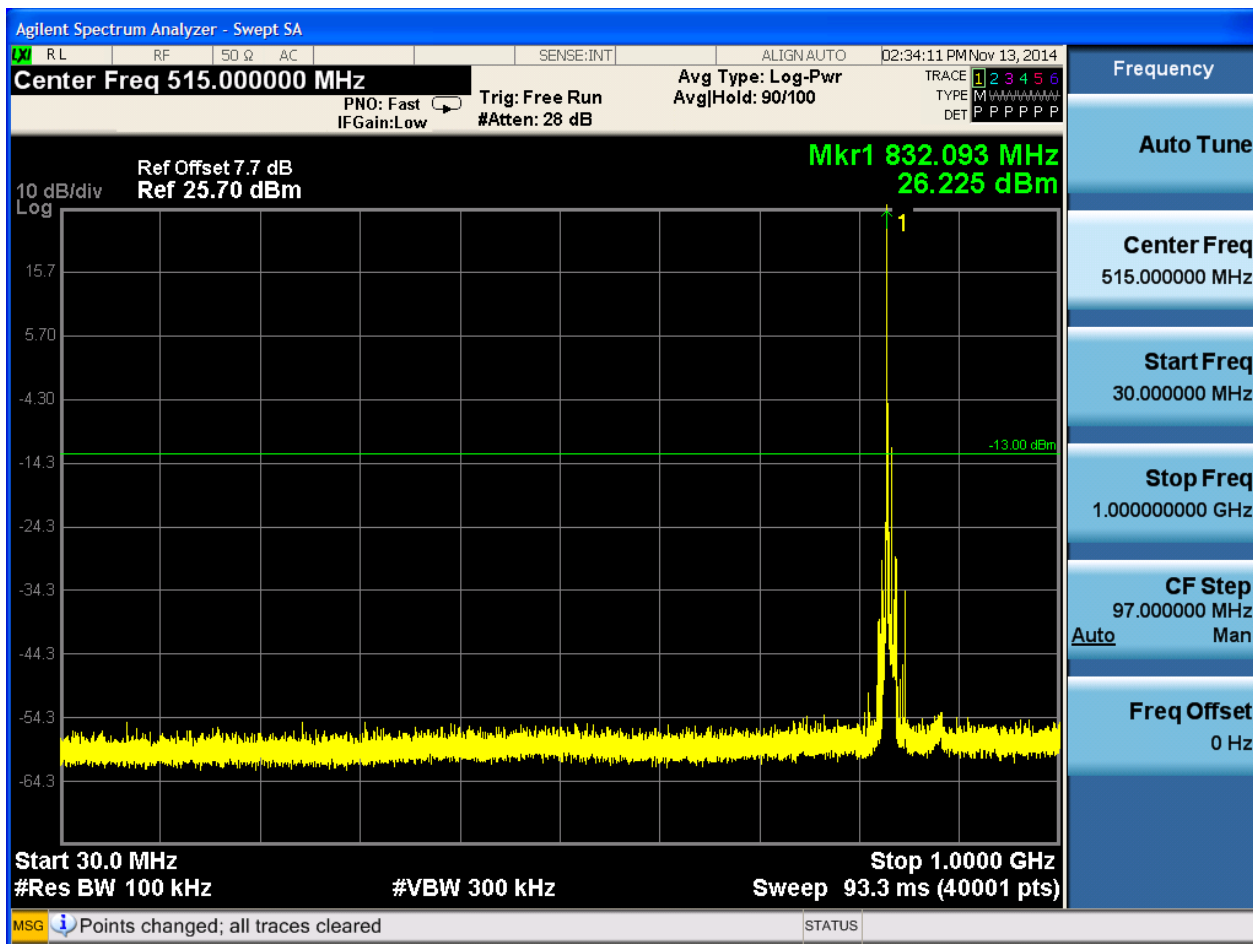


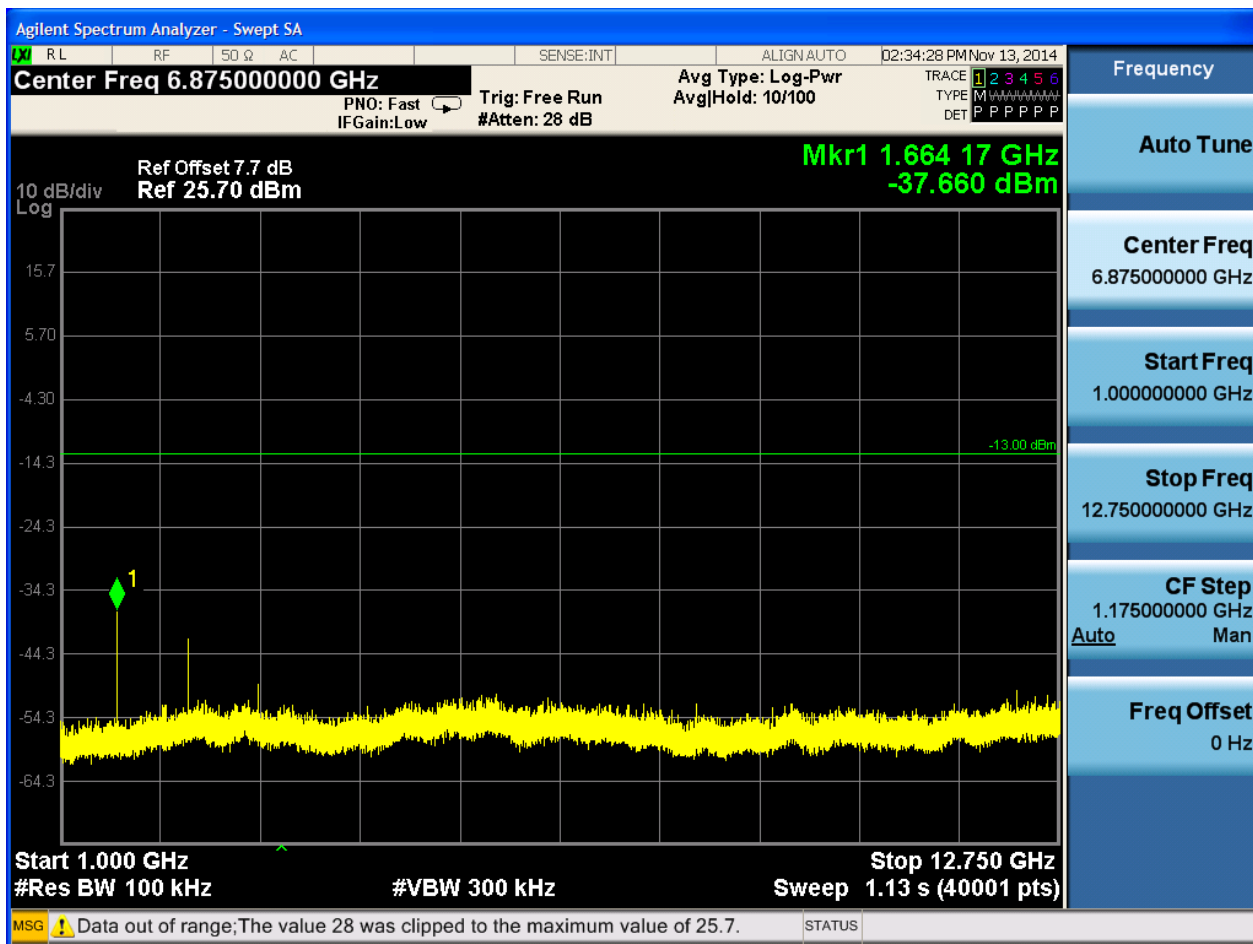
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



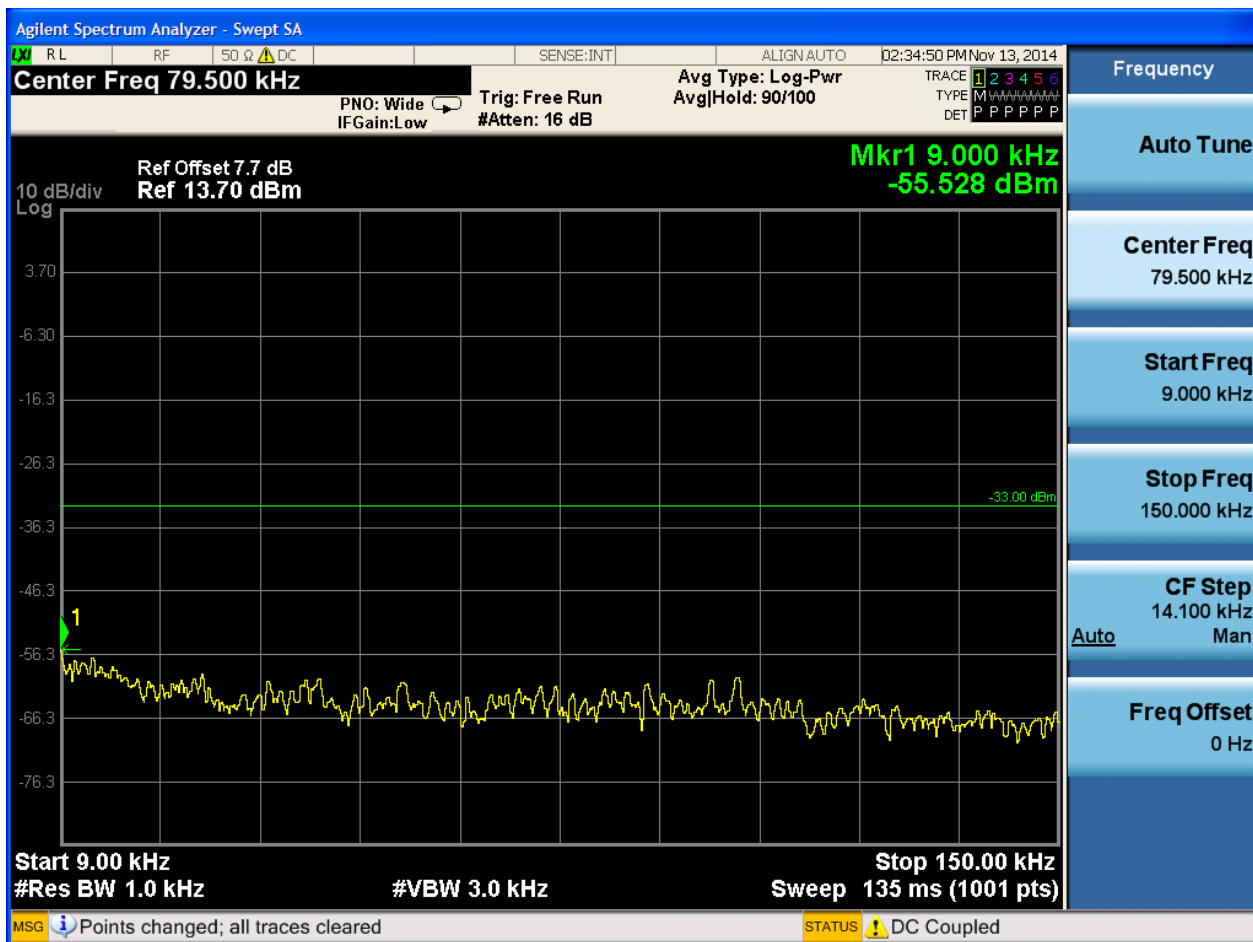


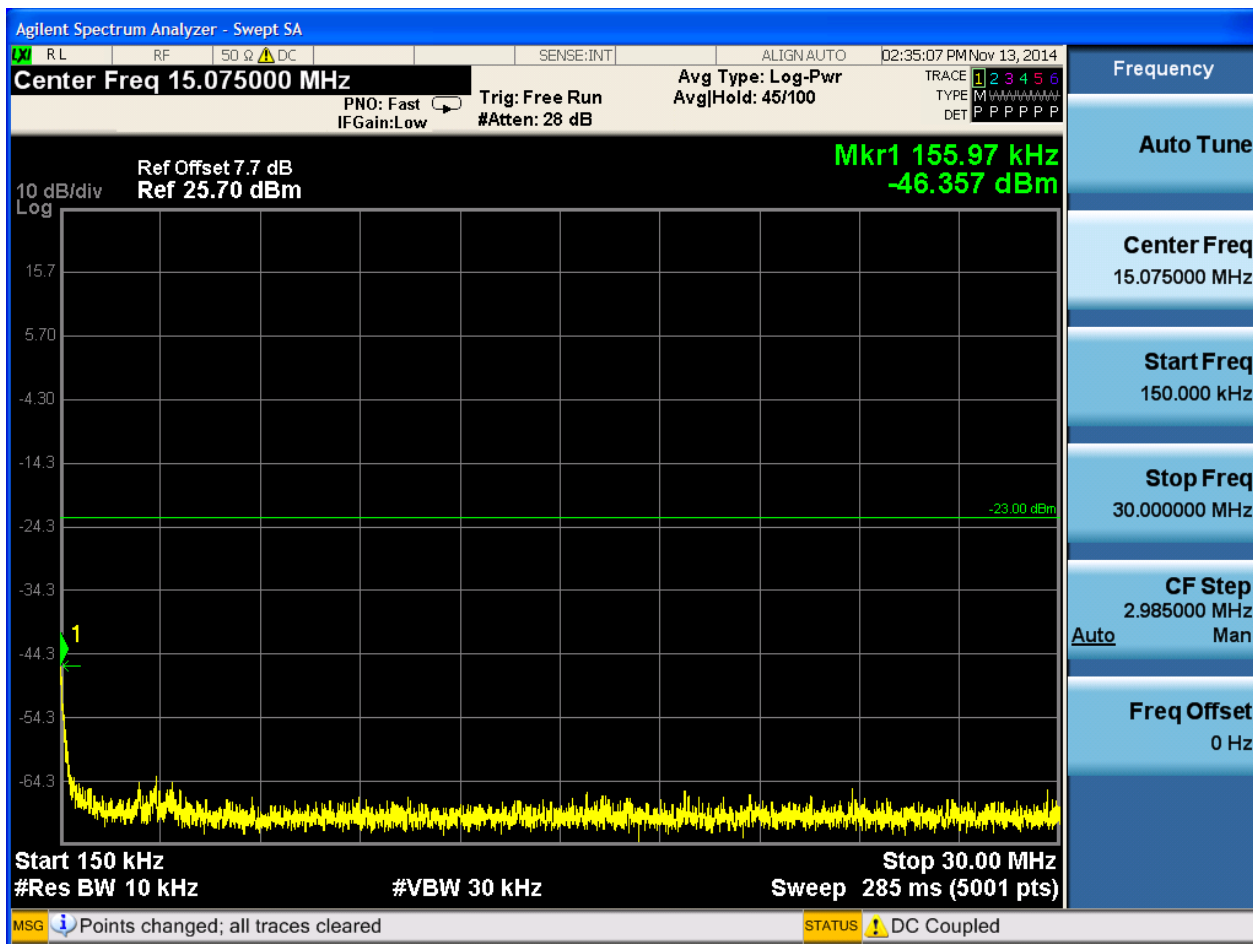


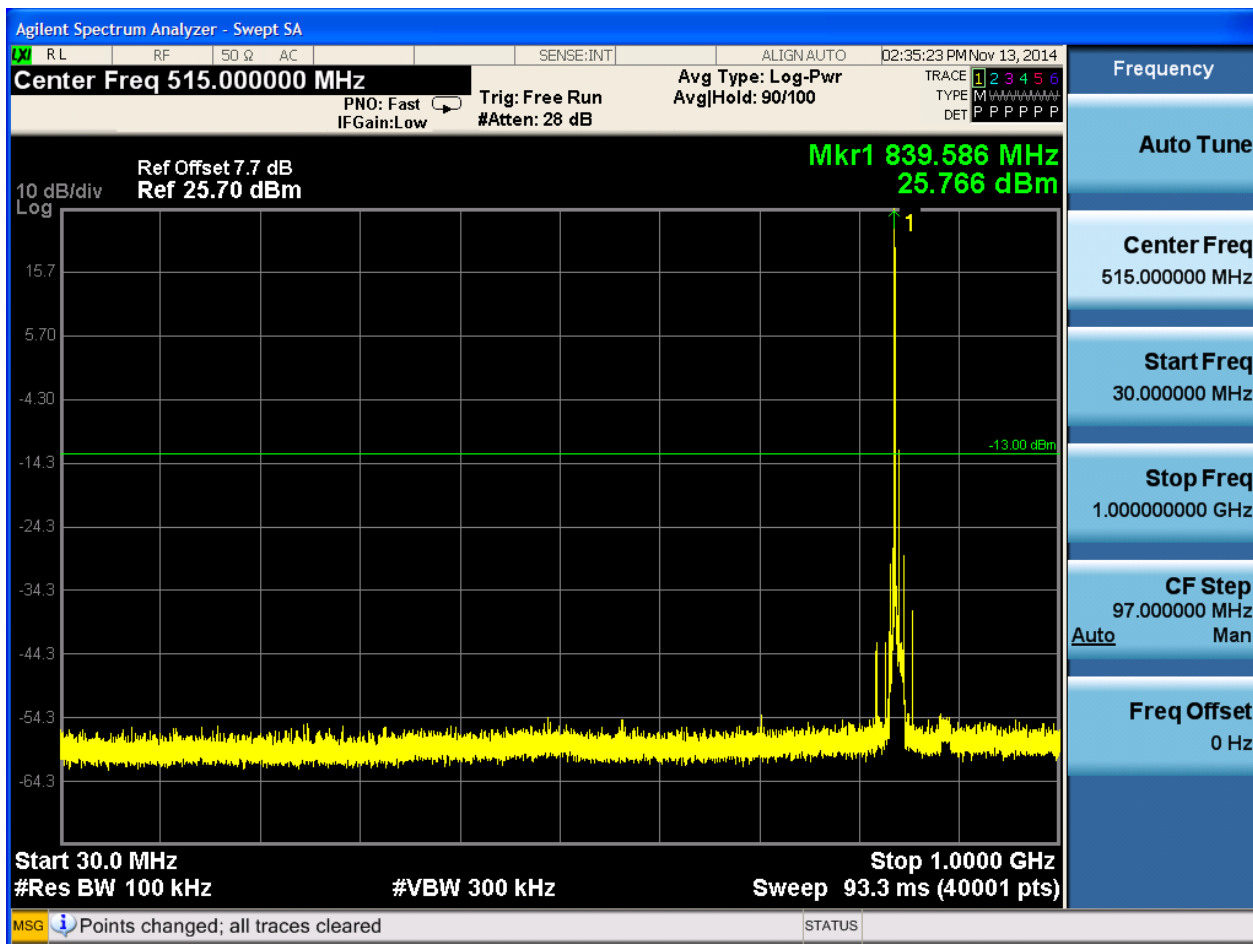


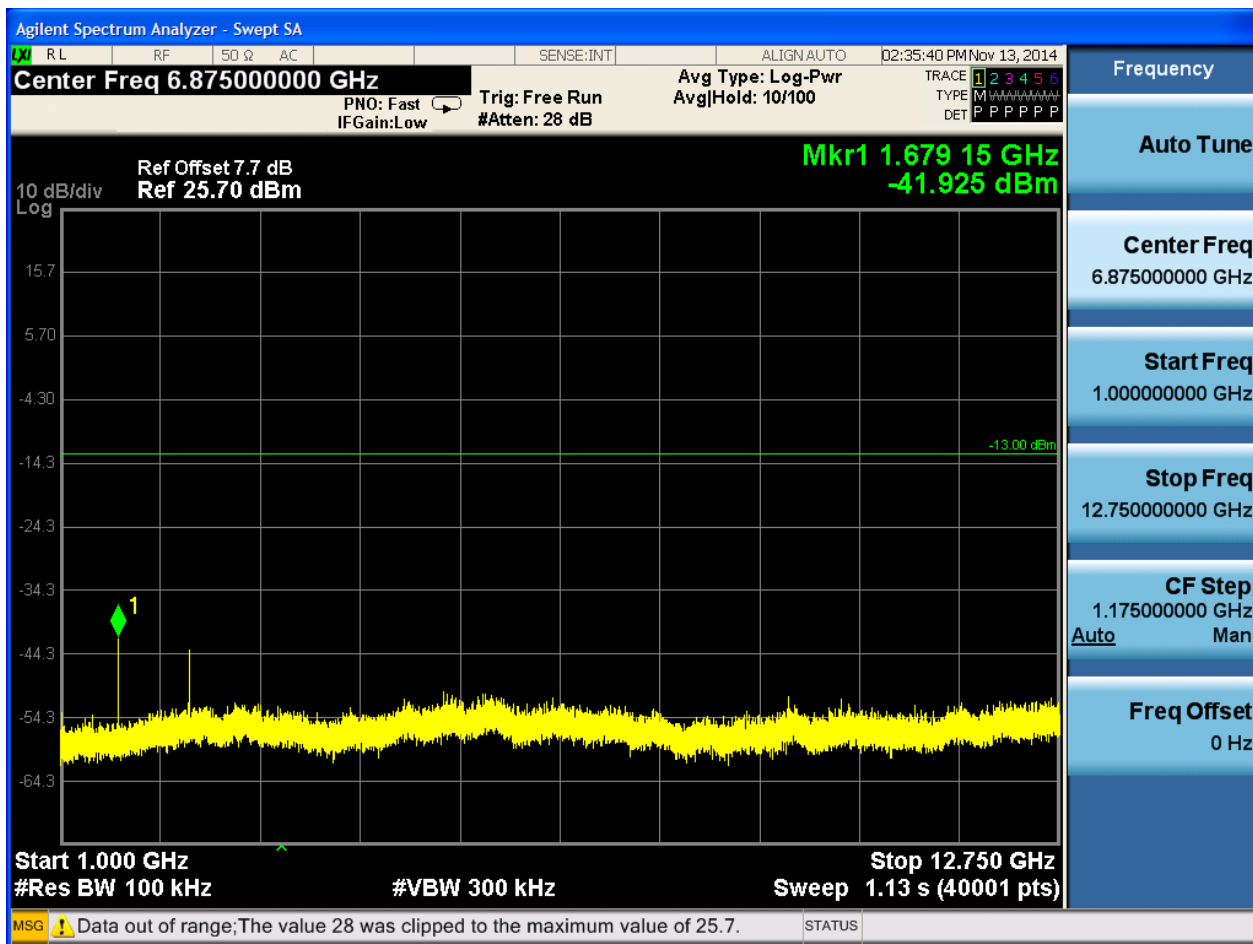
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0









7Appendix_G: Field Strength of Spurious Radiation

Note:

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

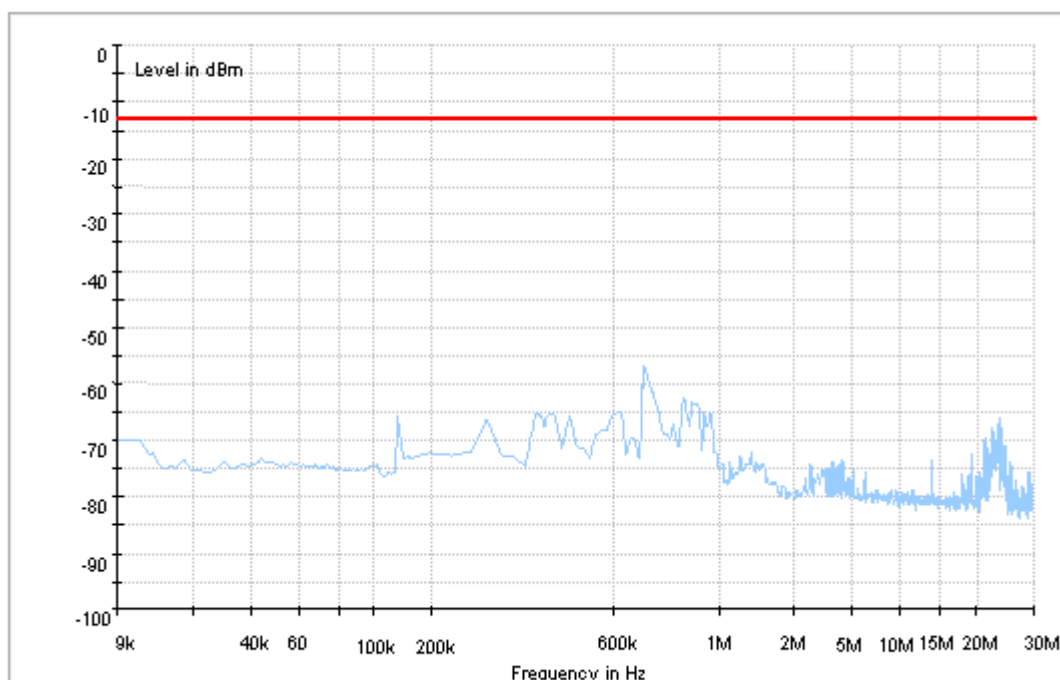
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

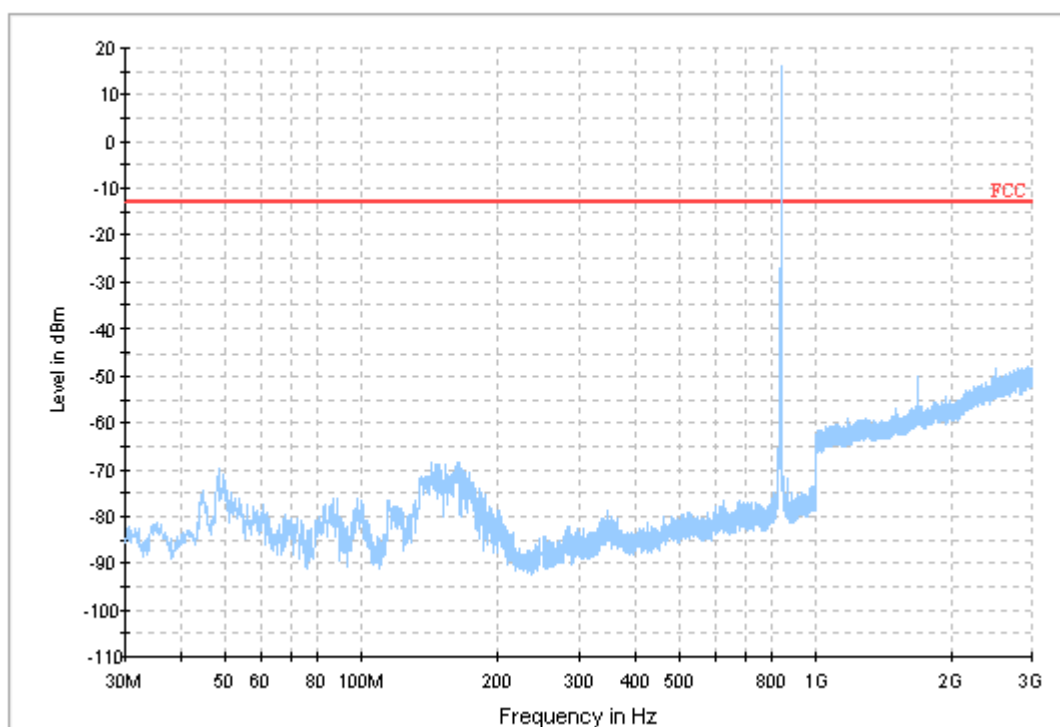
7.1 For LTE

7.1.1 Test Band = BAND5

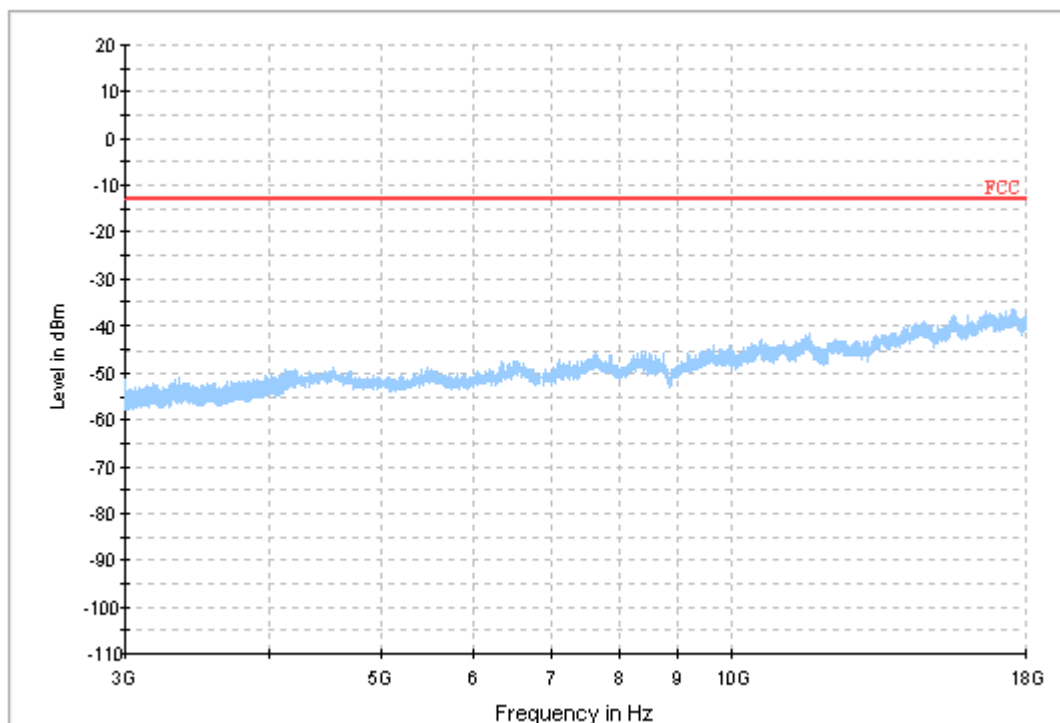
7.1.1.1 Test Bandwidth = 1.4



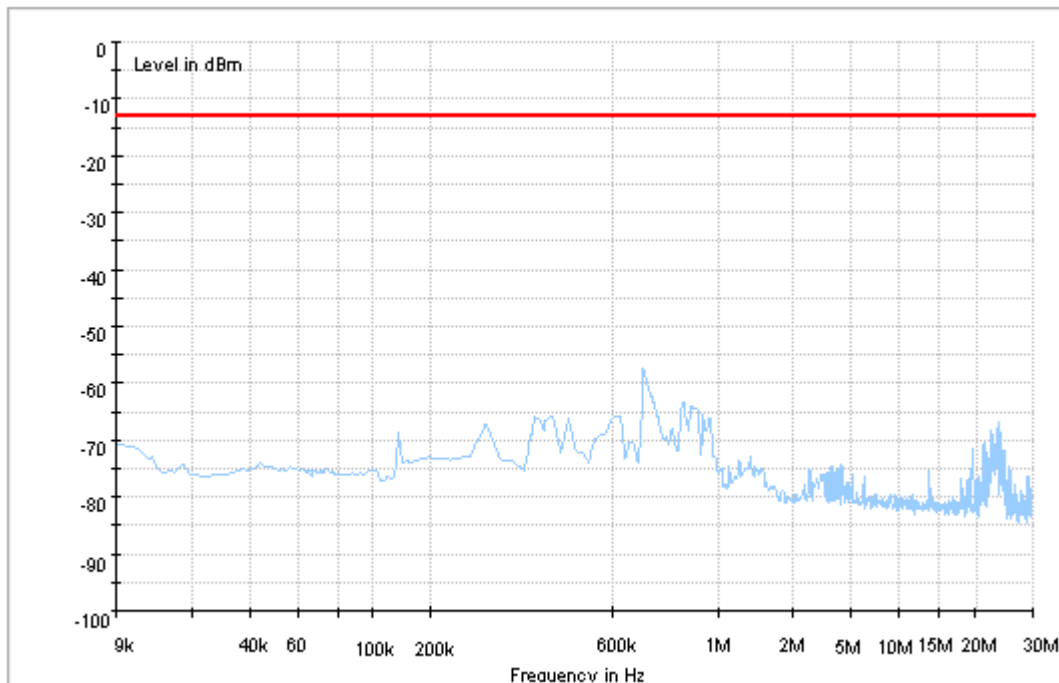
Copy of FCC PART22 LTE Band 5_L



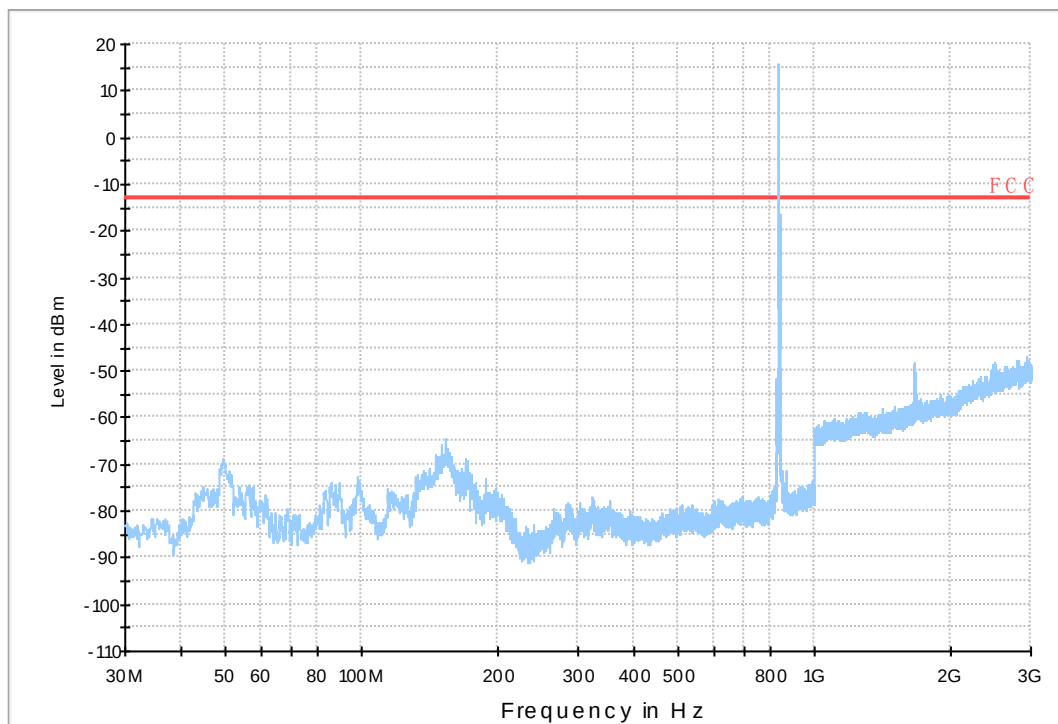
Copy of FCC PART22 LTE Band 5_H



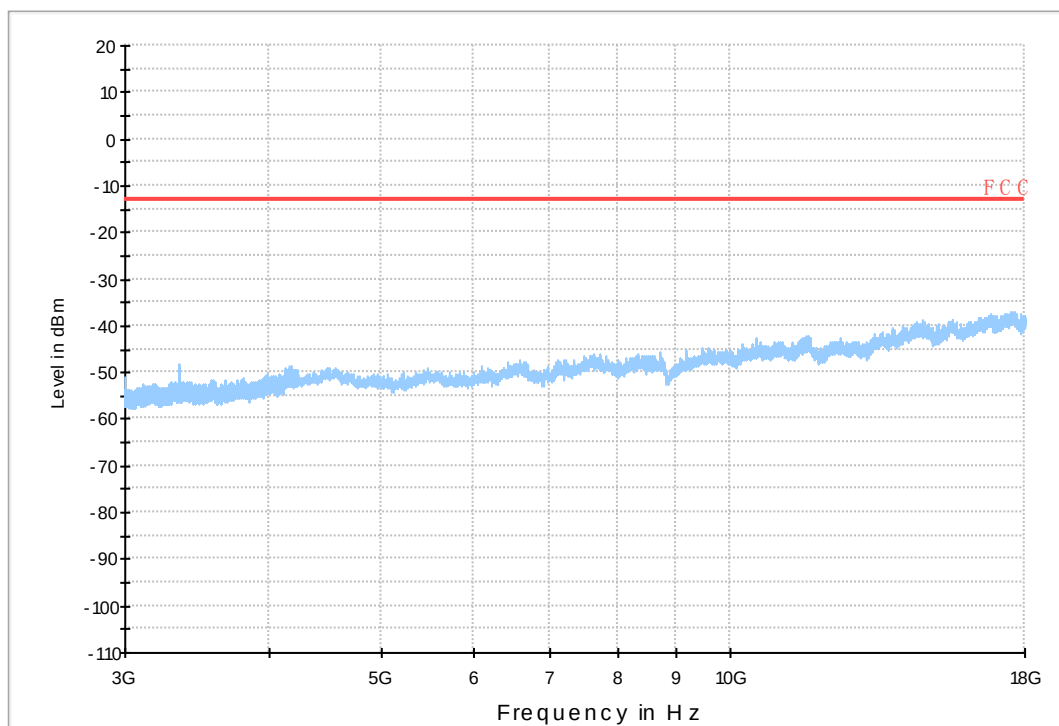
7.1.1.2 Test Bandwidth = 5



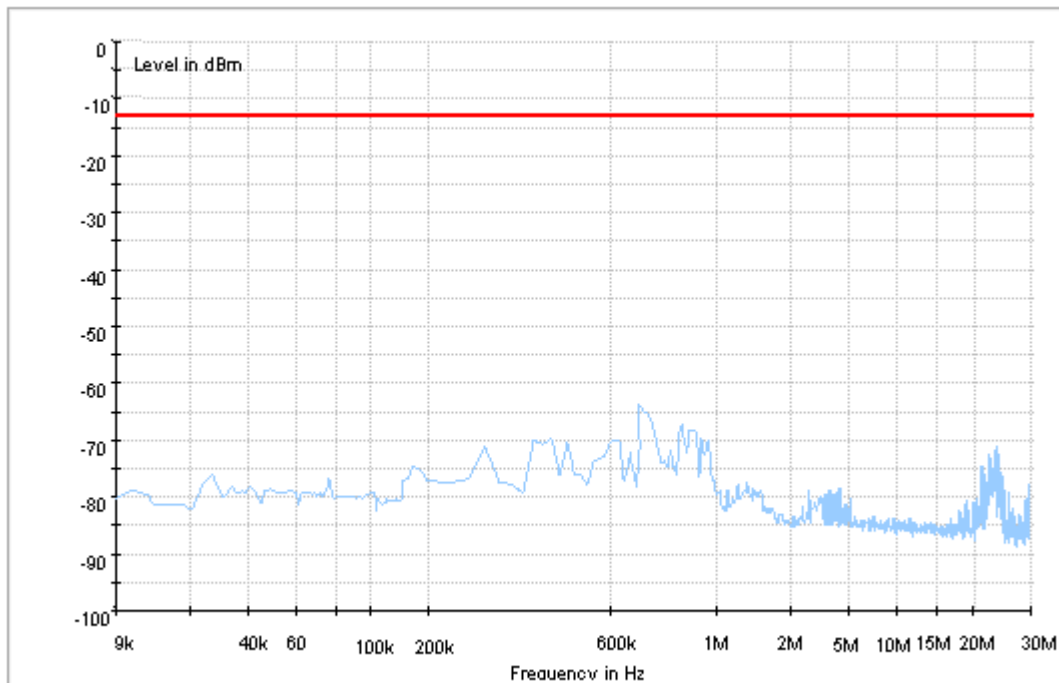
Copy of FCC PART22 LTE Band 5_L



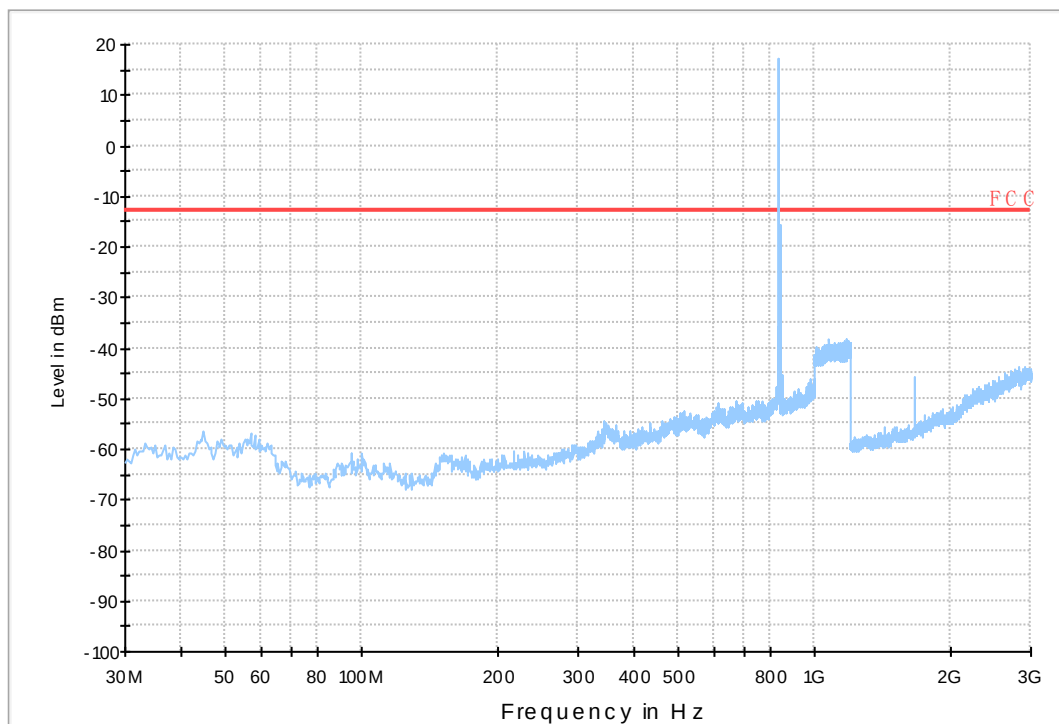
Copy of FCC PART22 LTE Band 5_H



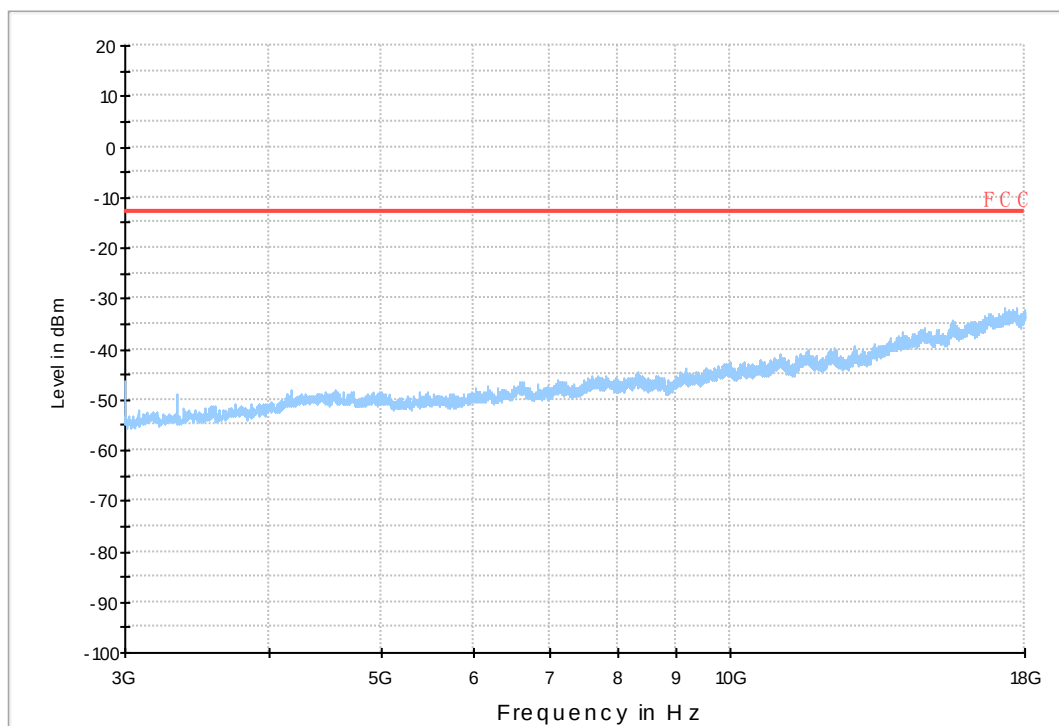
7.1.1.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	TN	VL	-0.90	-0.00109	PASS
					VN	-0.27	-0.00033	PASS
					VH	-1.46	-0.00177	PASS
			MCH	TN	VL	0.76	0.00091	PASS
					VN	0.73	0.00087	PASS
					VH	0.23	0.00027	PASS
			HCH	TN	VL	24.05	0.02835	PASS
					VN	24.30	0.02865	PASS
					VH	27.98	0.03298	PASS
		3	LCH	TN	VL	-2.02	-0.00245	PASS
					VN	-0.24	-0.00029	PASS
					VH	-1.50	-0.00182	PASS
			MCH	TN	VL	1.32	0.00158	PASS
					VN	1.34	0.0016	PASS
					VH	0.10	0.00012	PASS
			HCH	TN	VL	1.66	0.00196	PASS
					VN	0.06	0.00007	PASS
					VH	1.69	0.00199	PASS
		5	LCH	TN	VL	-0.24	-0.00029	PASS
					VN	0.37	0.00045	PASS
					VH	-1.04	-0.00126	PASS
			MCH	TN	VL	0.57	0.00068	PASS
					VN	0.10	0.00012	PASS
					VH	-0.94	-0.00112	PASS
			HCH	TN	VL	-0.29	-0.00034	PASS
					VN	3.28	0.00387	PASS
					VH	0.29	0.00034	PASS
		10	LCH	TN	VL	-0.57	-0.00069	PASS
					VN	-0.04	-0.00005	PASS
					VH	-0.51	-0.00062	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2		MCH	TN	VL	-3.68	-0.0044	PASS
					VN	-1.00	-0.0012	PASS
					VH	-0.92	-0.0011	PASS
			HCH	TN	VL	0.53	0.00063	PASS
					VN	7.88	0.00934	PASS
					VH	7.65	0.00906	PASS
		1.4	LCH	TN	VL	-0.43	-0.00052	PASS
					VN	-0.43	-0.00052	PASS
					VH	-1.00	-0.00121	PASS
			MCH	TN	VL	0.86	0.00103	PASS
					VN	-0.63	-0.00075	PASS
					VH	-0.92	-0.0011	PASS
			HCH	TN	VL	15.84	0.01867	PASS
					VN	28.22	0.03327	PASS
					VH	22.95	0.02705	PASS
		3	LCH	TN	VL	-2.39	-0.0029	PASS
					VN	-2.07	-0.00251	PASS
					VH	-2.89	-0.0035	PASS
			MCH	TN	VL	1.76	0.0021	PASS
					VN	1.26	0.00151	PASS
					VH	0.06	0.00007	PASS
			HCH	TN	VL	-0.10	-0.00012	PASS
					VN	0.20	0.00024	PASS
					VH	1.00	0.00118	PASS
		5	LCH	TN	VL	-1.23	-0.00149	PASS
					VN	-1.00	-0.00121	PASS
					VH	-1.63	-0.00197	PASS
			MCH	TN	VL	-0.16	-0.00019	PASS
					VN	0.33	0.00039	PASS
					VH	-1.12	-0.00134	PASS
			HCH	TN	VL	-0.44	-0.00052	PASS
					VN	2.02	0.00239	PASS
					VH	-0.21	-0.00025	PASS
		10	LCH	TN	VL	0.82	0.00099	PASS
					VN	1.36	0.00164	PASS
					VH	1.36	0.00164	PASS
			MCH	TN	VL	-0.73	-0.00087	PASS
					VN	0.06	0.00007	PASS
					VH	-0.67	-0.0008	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	8.70	0.01031	PASS
					VN	7.72	0.00915	PASS
					VH	8.07	0.00956	PASS

8.1.2 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	VN	-30	-0.63	-0.00076	PASS
					-20	-1.97	-0.00239	PASS
					-10	-0.14	-0.00017	PASS
					0	-1.29	-0.00156	PASS
					10	-0.53	-0.00064	PASS
					20	-1.16	-0.00141	PASS
					30	-0.72	-0.00087	PASS
					40	-0.74	-0.0009	PASS
					50	-0.24	-0.00029	PASS
			MCH	VN	-30	0.50	0.0006	PASS
					-20	0.23	0.00027	PASS
					-10	0.99	0.00118	PASS
					0	0.62	0.00074	PASS
					10	1.93	0.00231	PASS
					20	0.44	0.00053	PASS
					30	0.36	0.00043	PASS
					40	-0.79	-0.00094	PASS
					50	-2.55	-0.00305	PASS
			HCH	VN	-30	-4.45	-0.00525	PASS
					-20	-2.92	-0.00344	PASS
					-10	-1.17	-0.00138	PASS
					0	-3.72	-0.00439	PASS
					10	-3.59	-0.00423	PASS
					20	-4.05	-0.00477	PASS
					30	-1.86	-0.00219	PASS
					40	-4.25	-0.00501	PASS
					50	-16.98	-0.02002	PASS
		3	LCH	VN	-30	-1.27	-0.00154	PASS
					-20	-0.97	-0.00118	PASS
					-10	-0.87	-0.00105	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-1.83	-0.00222	PASS
					10	-2.19	-0.00265	PASS
					20	-2.82	-0.00342	PASS
					30	-3.83	-0.00464	PASS
					40	-2.35	-0.00285	PASS
					50	-2.37	-0.00287	PASS
			MCH	VN	-30	2.96	0.00354	PASS
					-20	2.36	0.00282	PASS
					-10	0.97	0.00116	PASS
					0	2.73	0.00326	PASS
					10	2.57	0.00307	PASS
					20	1.80	0.00215	PASS
					30	0.50	0.0006	PASS
					40	2.03	0.00243	PASS
					50	2.55	0.00305	PASS
			HCH	VN	-30	3.42	0.00404	PASS
					-20	1.40	0.00165	PASS
					-10	1.93	0.00228	PASS
					0	1.40	0.00165	PASS
					10	2.10	0.00248	PASS
					20	1.00	0.00118	PASS
					30	-0.63	-0.00074	PASS
					40	0.46	0.00054	PASS
					50	0.80	0.00094	PASS
		5	LCH	VN	-30	-0.27	-0.00033	PASS
					-20	-1.60	-0.00194	PASS
					-10	0.30	0.00036	PASS
					0	-0.72	-0.00087	PASS
					10	1.80	0.00218	PASS
					20	0.07	0.00008	PASS
					30	1.59	0.00192	PASS
					40	0.51	0.00062	PASS
					50	-0.93	-0.00113	PASS
			MCH	VN	-30	2.89	0.00345	PASS
					-20	2.26	0.0027	PASS
					-10	-0.49	-0.00059	PASS
					0	1.16	0.00139	PASS
					10	1.29	0.00154	PASS
					20	2.83	0.00338	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	2.40	0.00287	PASS
					40	0.82	0.00098	PASS
					50	0.80	0.00096	PASS
			HCH	VN	-30	-11.19	-0.01322	PASS
					-20	-20.74	-0.0245	PASS
					-10	6.32	0.00747	PASS
					0	-3.76	-0.00444	PASS
					10	-0.82	-0.00097	PASS
					20	-20.03	-0.02366	PASS
					30	5.88	0.00695	PASS
					40	10.43	0.01232	PASS
					50	-21.77	-0.02572	PASS
		10	LCH	VN	-30	0.97	0.00117	PASS
					-20	0.19	0.00023	PASS
					-10	0.46	0.00055	PASS
					0	1.10	0.00133	PASS
					10	0.50	0.0006	PASS
					20	1.27	0.00153	PASS
					30	0.27	0.00033	PASS
					40	0.34	0.00041	PASS
					50	1.54	0.00186	PASS
			MCH	VN	-30	-1.13	-0.00135	PASS
					-20	0.17	0.0002	PASS
					-10	2.39	0.00286	PASS
					0	1.26	0.00151	PASS
					10	-0.33	-0.00039	PASS
					20	1.04	0.00124	PASS
					30	0.06	0.00007	PASS
					40	0.79	0.00094	PASS
					50	0.89	0.00106	PASS
			HCH	VN	-30	8.38	0.00993	PASS
					-20	7.71	0.00914	PASS
					-10	7.05	0.00835	PASS
					0	7.67	0.00909	PASS
					10	4.01	0.00475	PASS
					20	7.57	0.00897	PASS
					30	8.34	0.00988	PASS
					40	8.40	0.00995	PASS
					50	7.27	0.00861	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	VN	-30	-1.42	-0.00172	PASS
					-20	-0.39	-0.00047	PASS
					-10	-0.56	-0.00068	PASS
					0	-1.69	-0.00205	PASS
					10	0.83	0.00101	PASS
					20	0.27	0.00033	PASS
					30	1.44	0.00175	PASS
					40	-0.76	-0.00092	PASS
					50	-1.46	-0.00177	PASS
			MCH	VN	-30	0.77	0.00092	PASS
					-20	1.42	0.0017	PASS
					-10	2.15	0.00257	PASS
					0	0.72	0.00086	PASS
					10	1.34	0.0016	PASS
					20	1.56	0.00186	PASS
					30	2.75	0.00329	PASS
					40	0.82	0.00098	PASS
					50	0.84	0.001	PASS
			HCH	VN	-30	11.94	0.01408	PASS
					-20	11.53	0.01359	PASS
					-10	2.65	0.00312	PASS
					0	12.99	0.01531	PASS
					10	10.70	0.01261	PASS
					20	11.60	0.01367	PASS
					30	12.67	0.01494	PASS
					40	13.70	0.01615	PASS
					50	15.32	0.01806	PASS
		3	LCH	VN	-30	-3.53	-0.00428	PASS
					-20	-2.50	-0.00303	PASS
					-10	-2.15	-0.0026	PASS
					0	-3.59	-0.00435	PASS
					10	0.64	0.00078	PASS
					20	-2.43	-0.00294	PASS
					30	-3.86	-0.00468	PASS
					40	-2.49	-0.00302	PASS
					50	-1.00	-0.00121	PASS
			MCH	VN	-30	0.83	0.00099	PASS
					-20	1.37	0.00164	PASS
					-10	1.04	0.00124	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	0.09	0.00011	PASS
					10	0.27	0.00032	PASS
					20	0.49	0.00059	PASS
					30	1.52	0.00182	PASS
					40	-0.17	-0.0002	PASS
					50	0.77	0.00092	PASS
			HCH	VN	-30	-1.16	-0.00137	PASS
					-20	-1.30	-0.00153	PASS
					-10	3.89	0.00459	PASS
					0	0.50	0.00059	PASS
					10	0.19	0.00022	PASS
					20	-0.37	-0.00044	PASS
					30	-2.07	-0.00244	PASS
					40	-1.12	-0.00132	PASS
					50	-0.43	-0.00051	PASS
		5	LCH	VN	-30	-0.96	-0.00116	PASS
					-20	0.79	0.00096	PASS
					-10	-1.14	-0.00138	PASS
					0	-1.02	-0.00123	PASS
					10	-0.49	-0.00059	PASS
					20	-1.70	-0.00206	PASS
					30	0.19	0.00023	PASS
					40	-0.59	-0.00071	PASS
					50	-1.13	-0.00137	PASS
			MCH	VN	-30	1.50	0.00179	PASS
					-20	0.67	0.0008	PASS
					-10	0.93	0.00111	PASS
					0	-0.50	-0.0006	PASS
					10	1.79	0.00214	PASS
					20	1.57	0.00188	PASS
					30	1.07	0.00128	PASS
					40	3.33	0.00398	PASS
					50	2.66	0.00318	PASS
			HCH	VN	-30	-3.23	-0.00382	PASS
					-20	-0.24	-0.00028	PASS
					-10	-1.65	-0.00195	PASS
					0	-1.10	-0.0013	PASS
					10	-4.35	-0.00514	PASS
					20	-1.82	-0.00215	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		10			30	-0.46	-0.00054	PASS
					40	-0.82	-0.00097	PASS
					50	-1.33	-0.00157	PASS
			LCH	VN	-30	0.93	0.00112	PASS
					-20	0.53	0.00064	PASS
					-10	-0.21	-0.00025	PASS
					0	0.51	0.00062	PASS
					10	0.46	0.00055	PASS
					20	-0.40	-0.00048	PASS
					30	-0.39	-0.00047	PASS
					40	-0.70	-0.00084	PASS
					50	-1.97	-0.00238	PASS
			MCH	VN	-30	-0.77	-0.00092	PASS
					-20	-0.19	-0.00023	PASS
					-10	0.50	0.0006	PASS
					0	0.13	0.00016	PASS
					10	-0.70	-0.00084	PASS
					20	0.59	0.00071	PASS
					30	-0.80	-0.00096	PASS
					40	0.77	0.00092	PASS
					50	1.47	0.00176	PASS
			HCH	VN	-30	7.08	0.00839	PASS
					-20	6.95	0.00823	PASS
					-10	7.77	0.00921	PASS
					0	25.29	0.02996	PASS
					10	7.61	0.00902	PASS
					20	8.08	0.00957	PASS
					30	7.82	0.00927	PASS
					40	7.58	0.00898	PASS
					50	7.20	0.00853	PASS

END