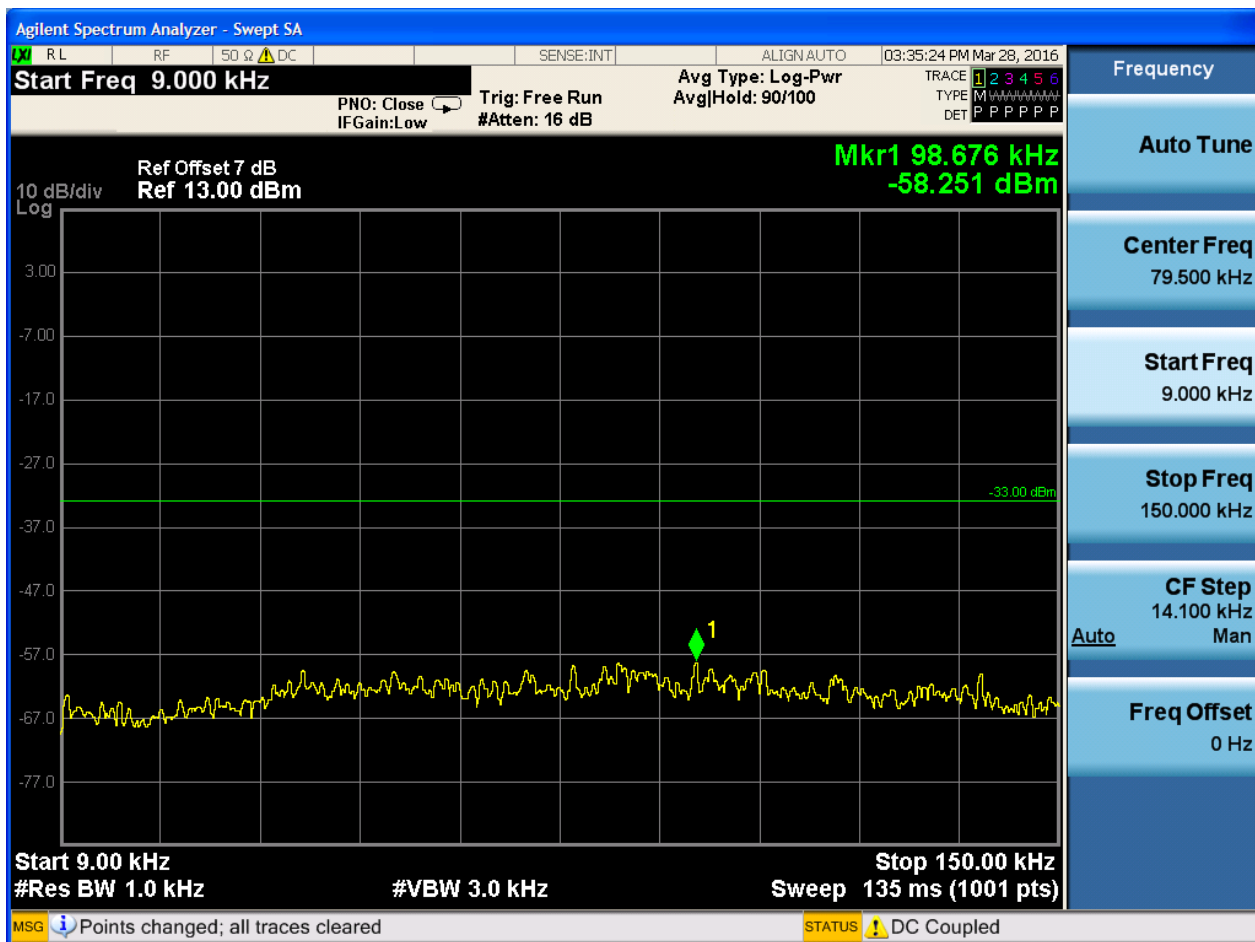


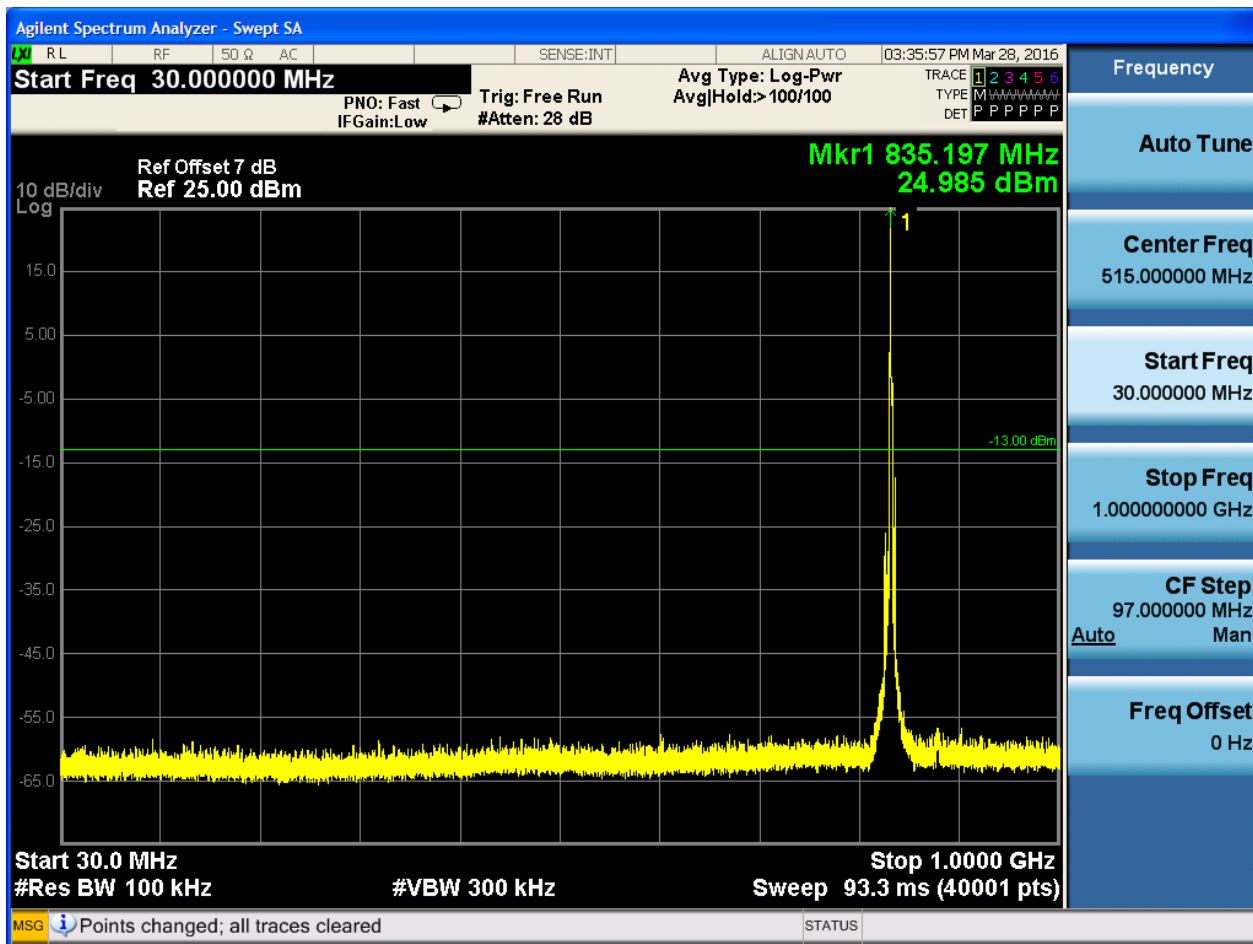


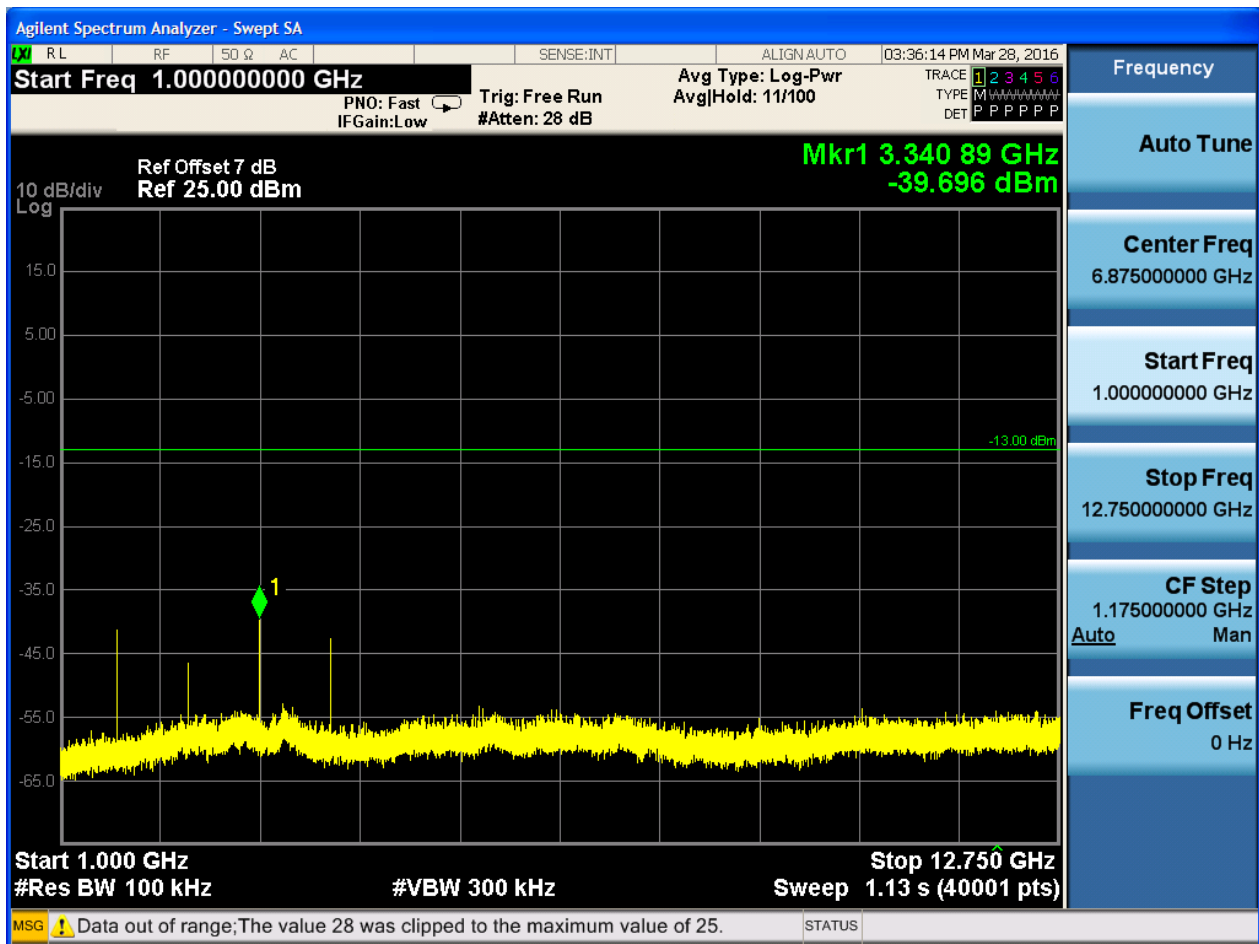
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





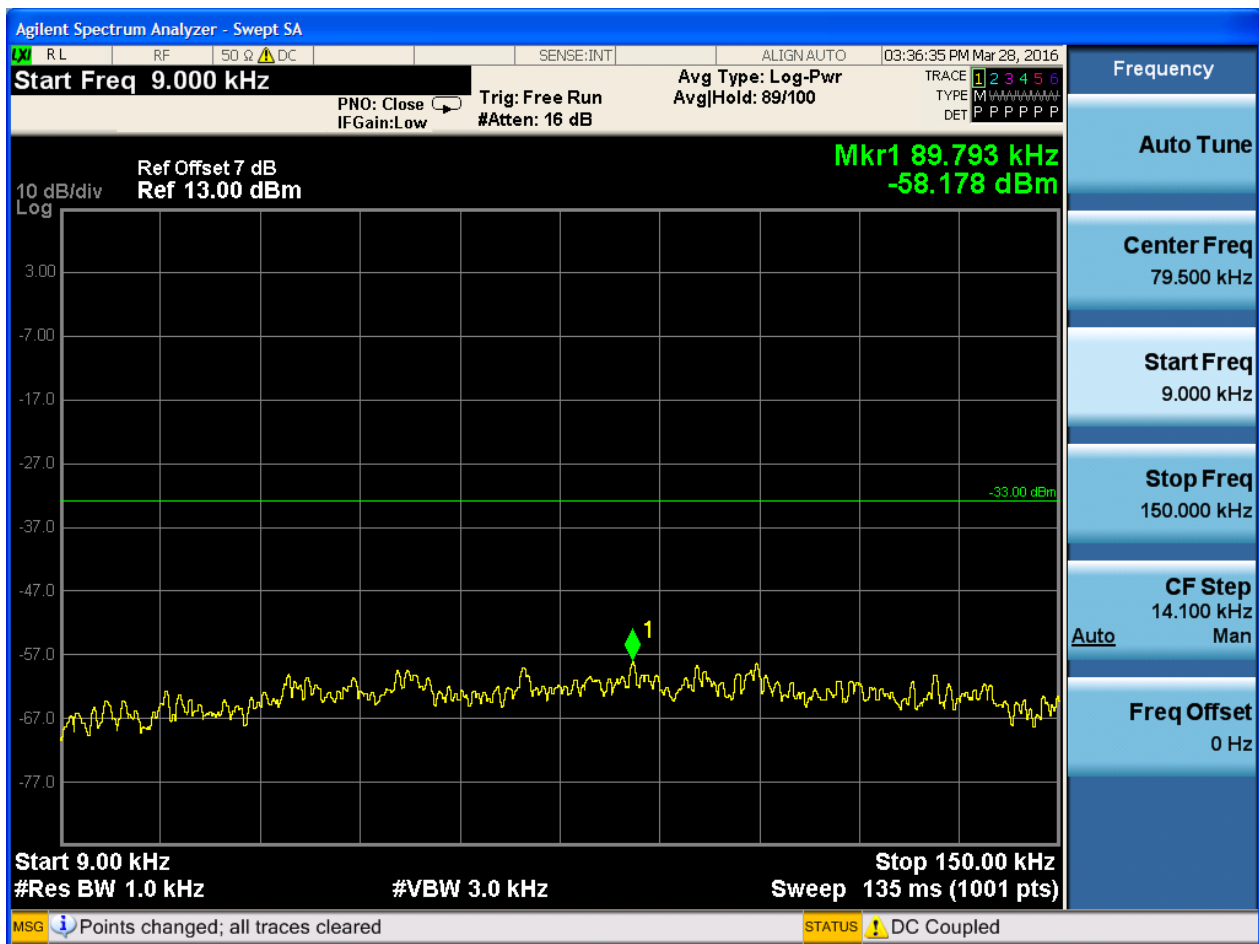


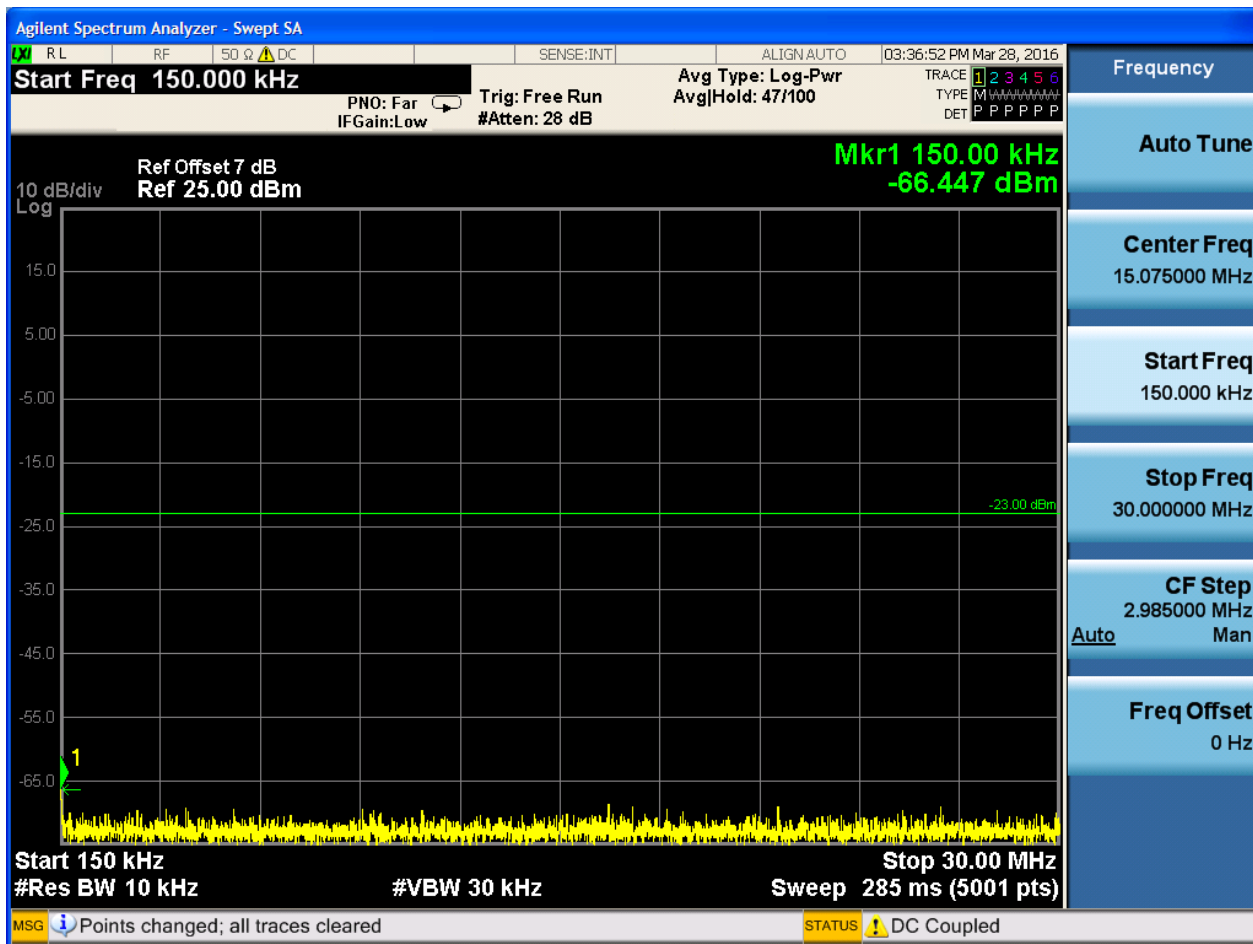


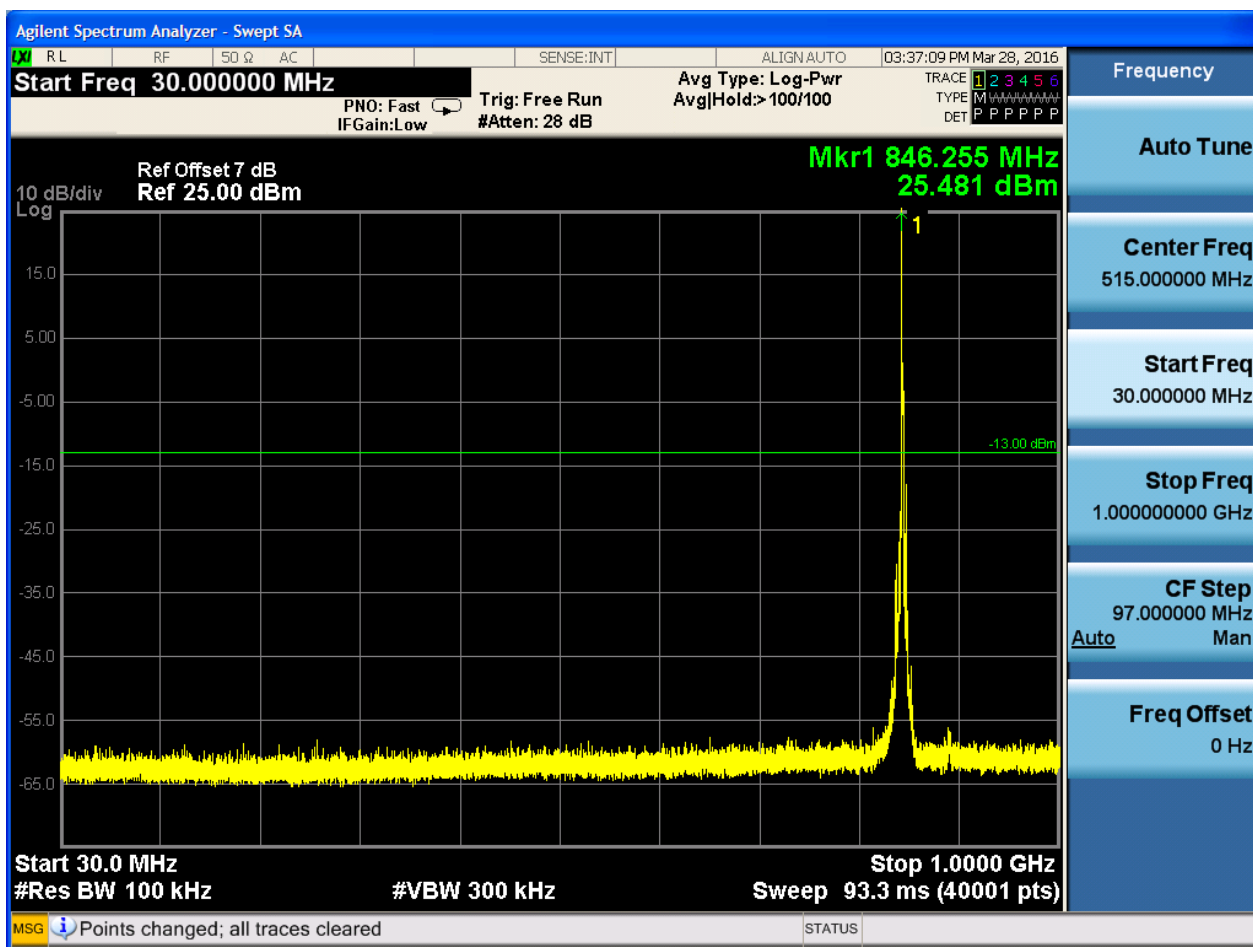


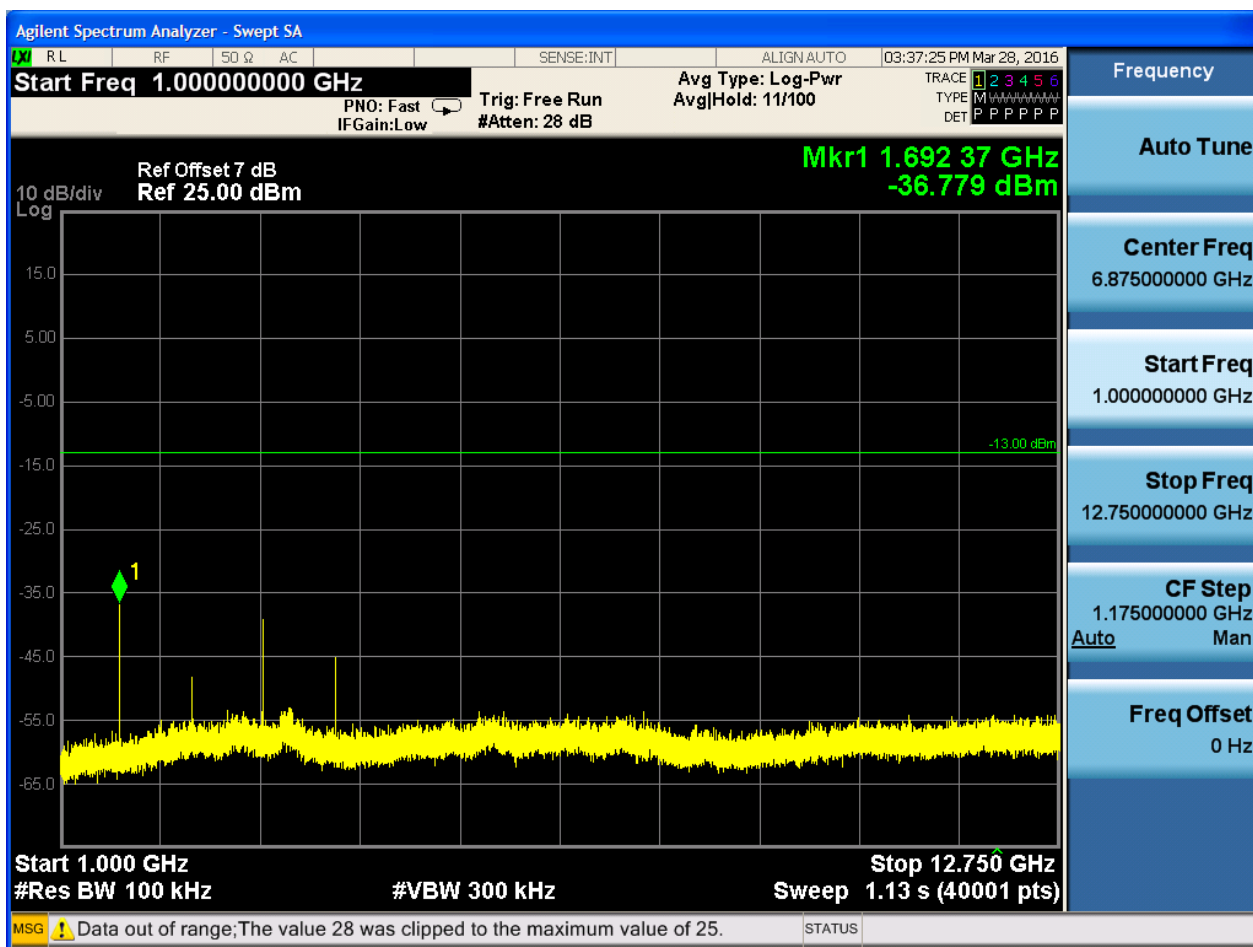
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







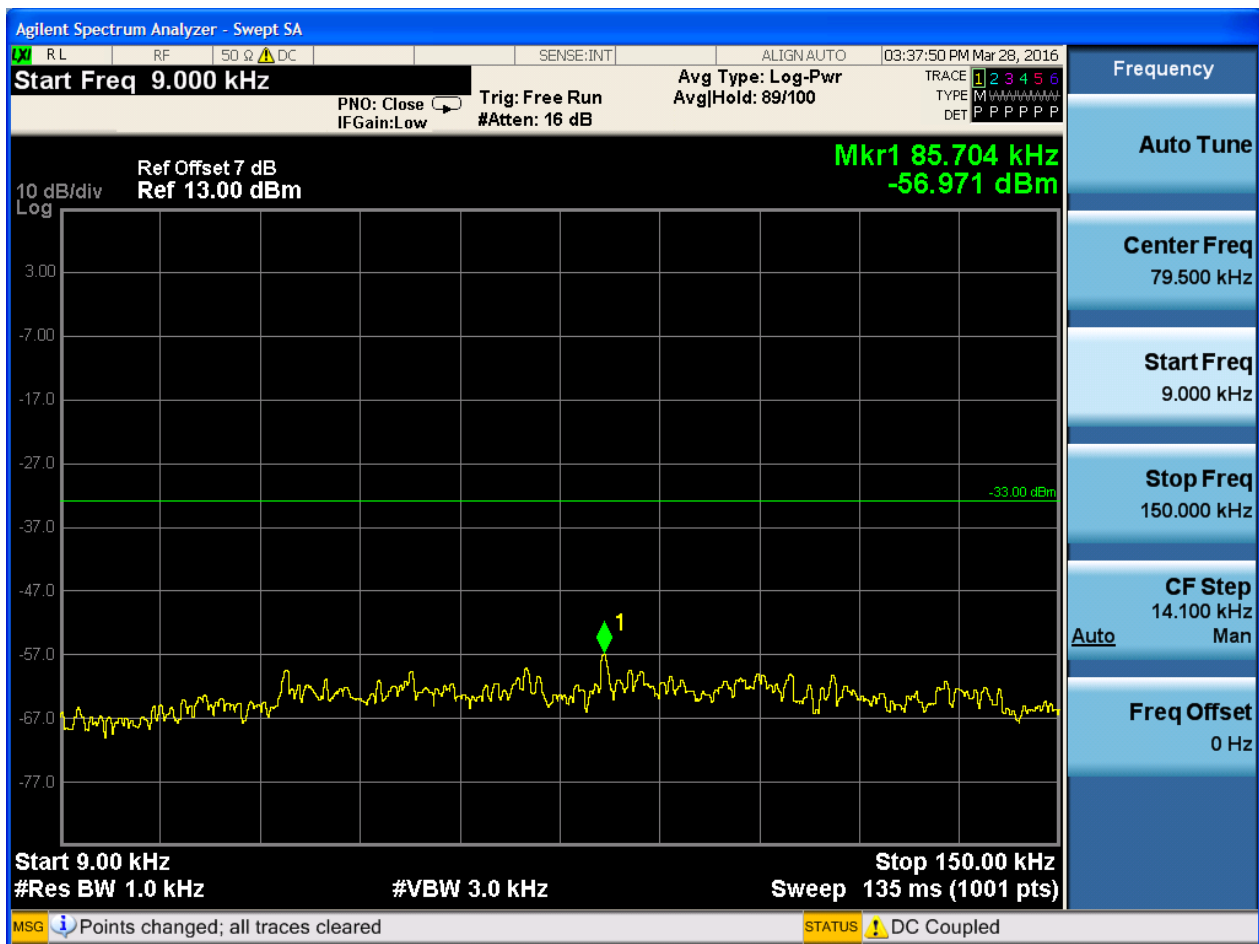




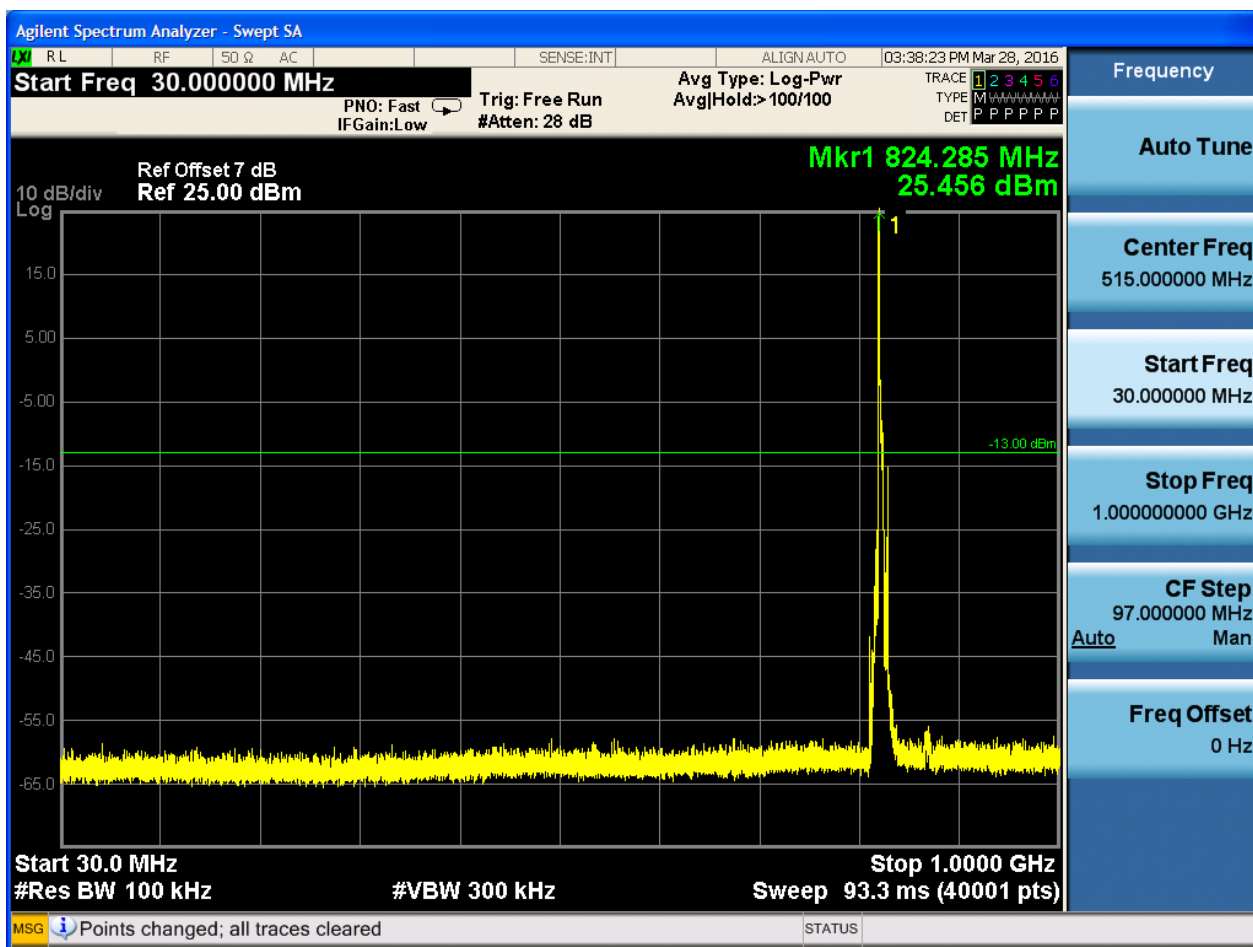
6.1.1.1.3 Test Bandwidth = 5

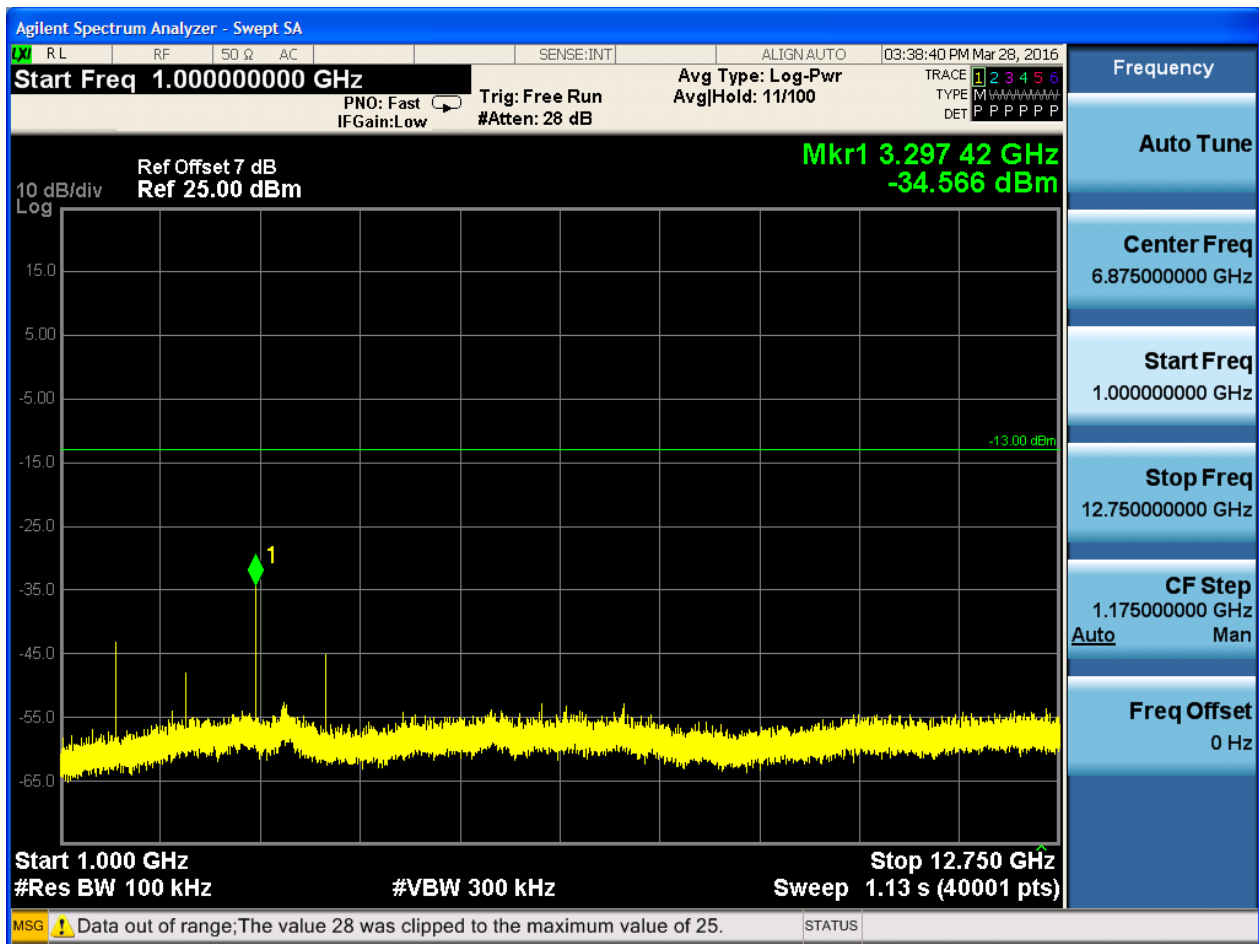
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





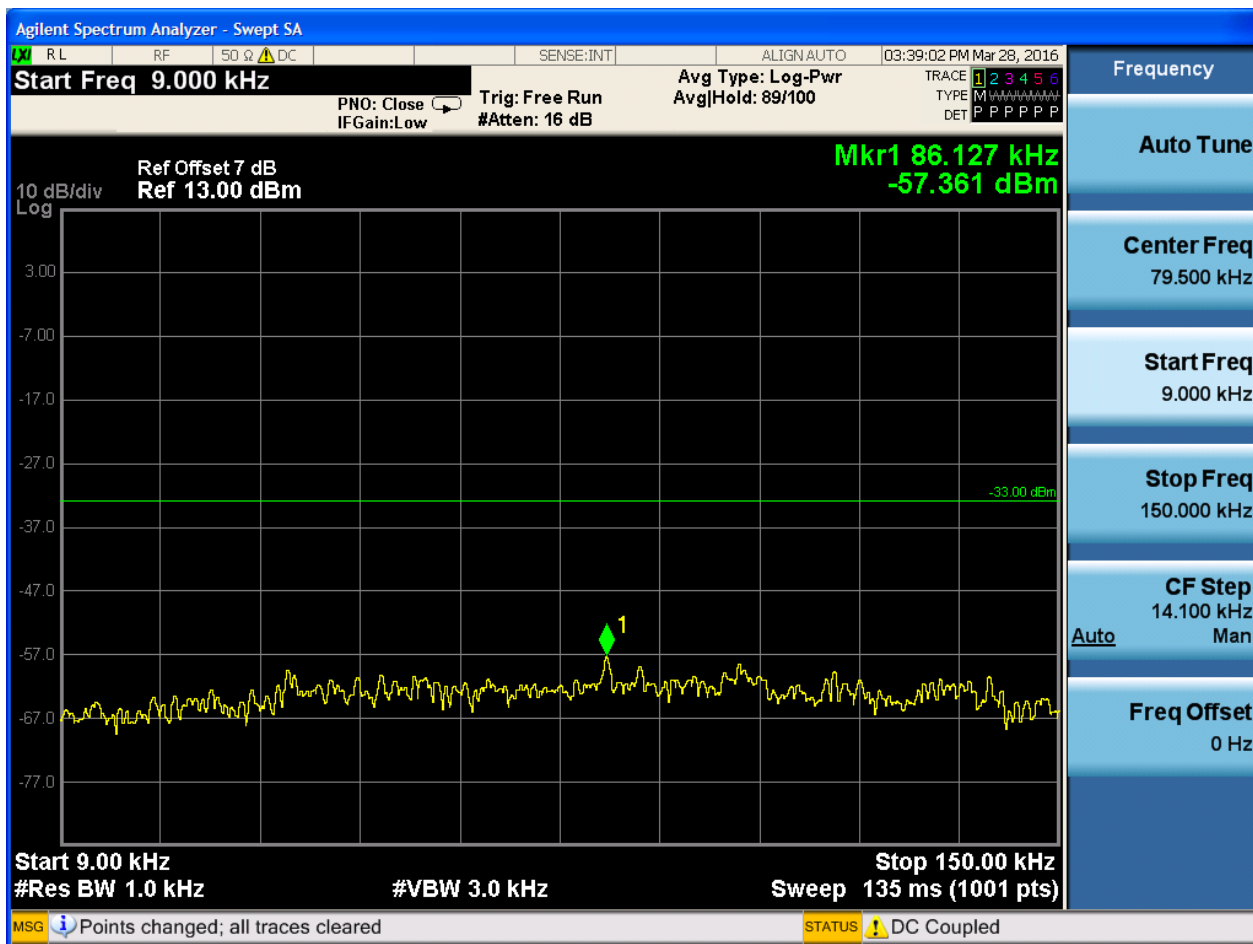


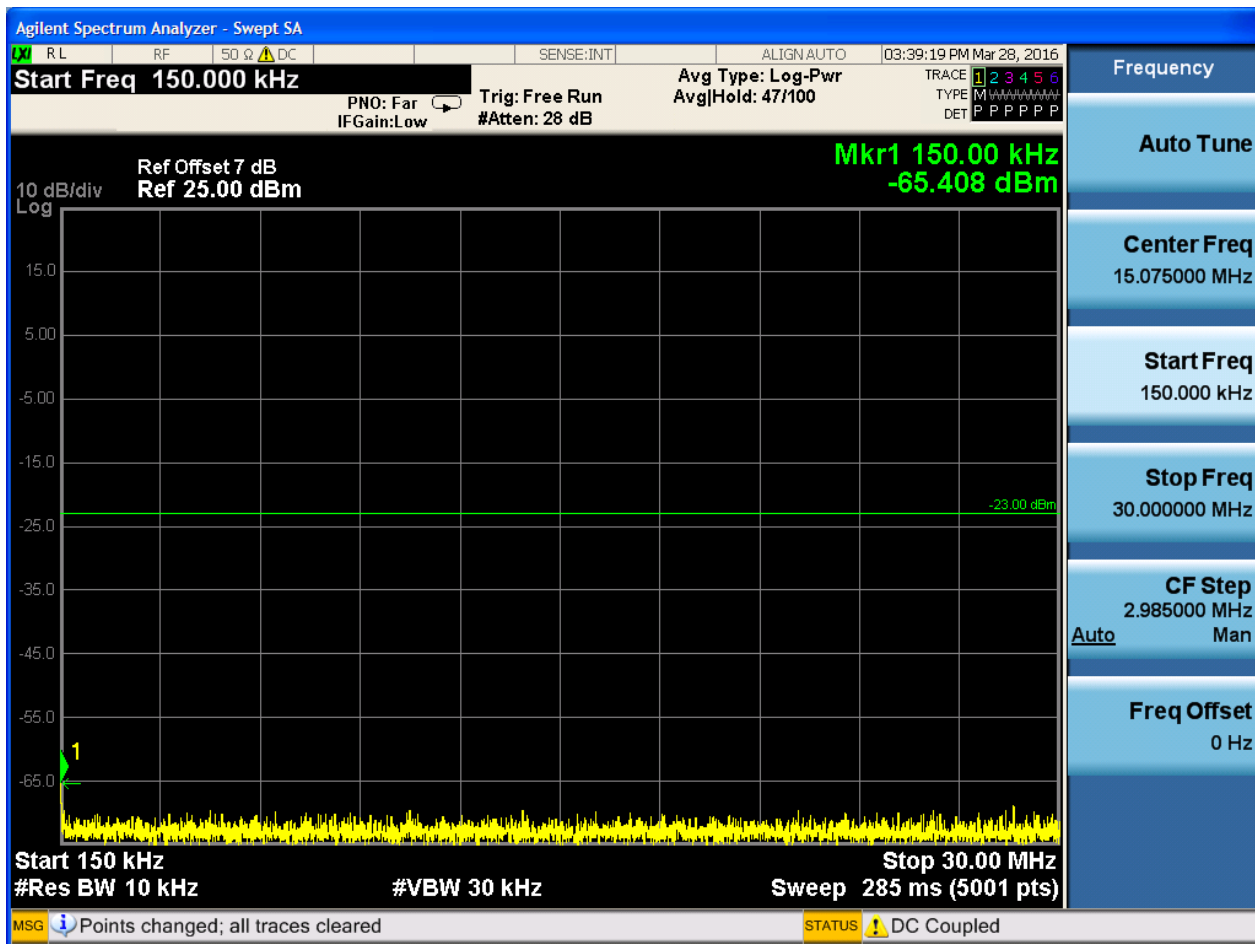


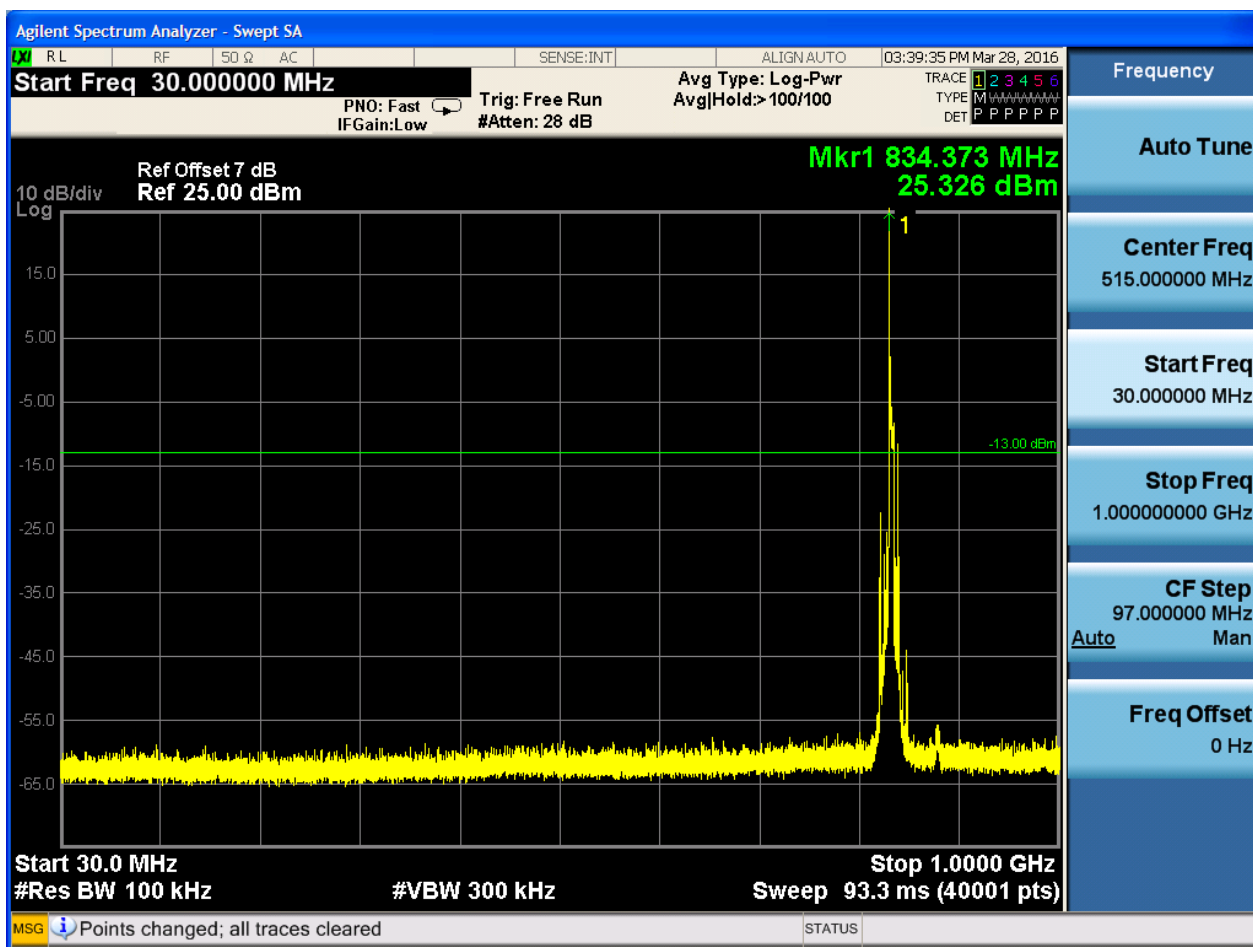


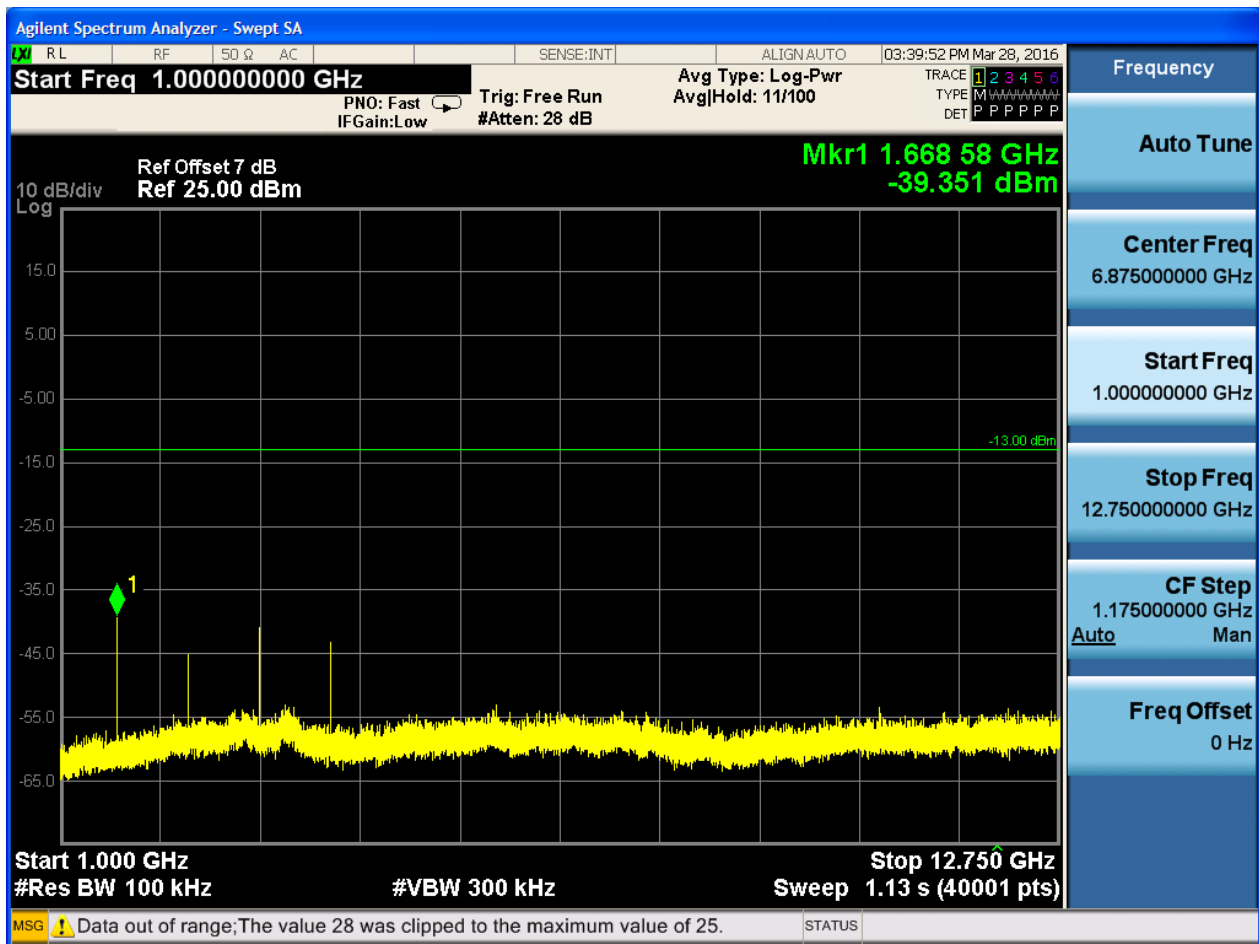
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





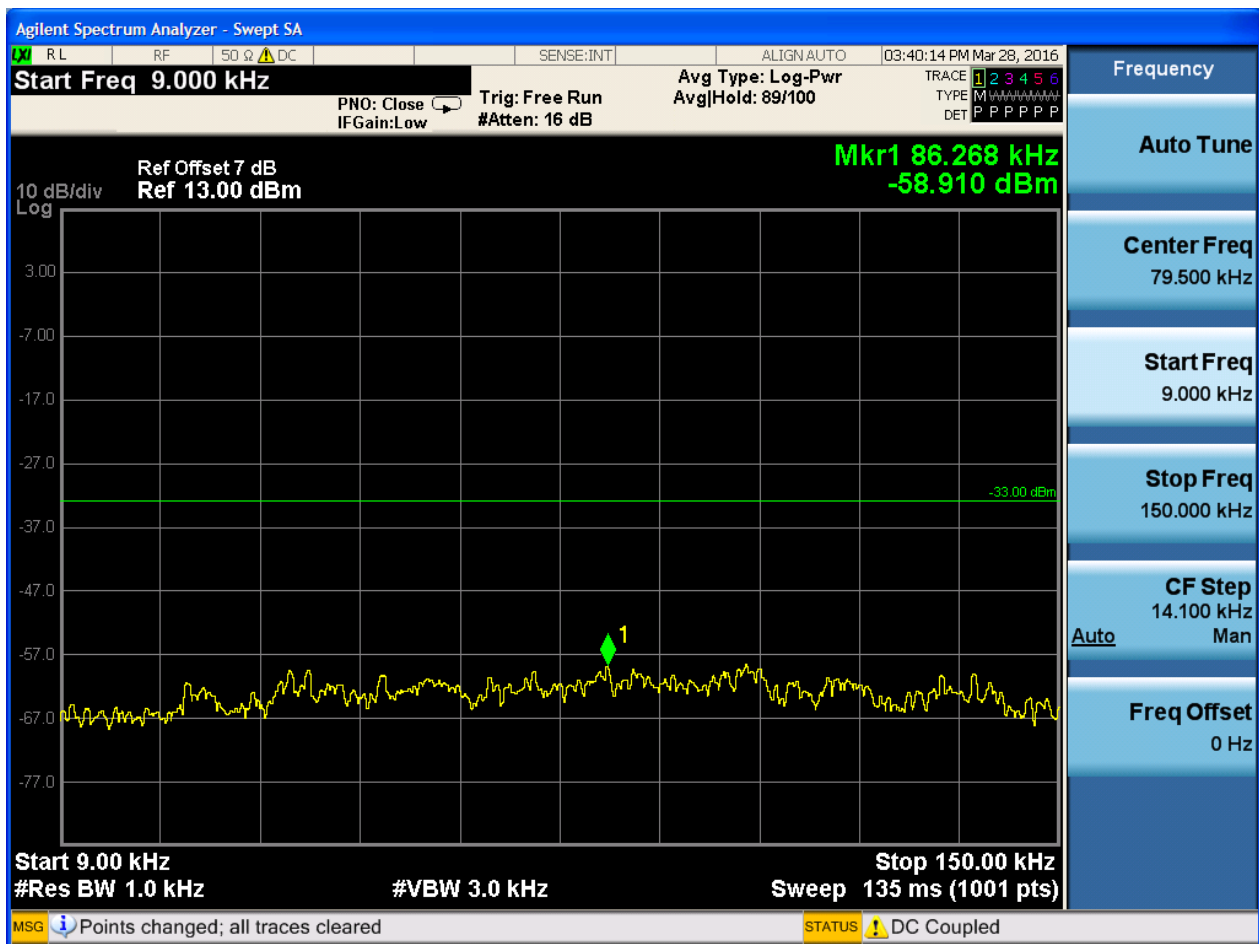




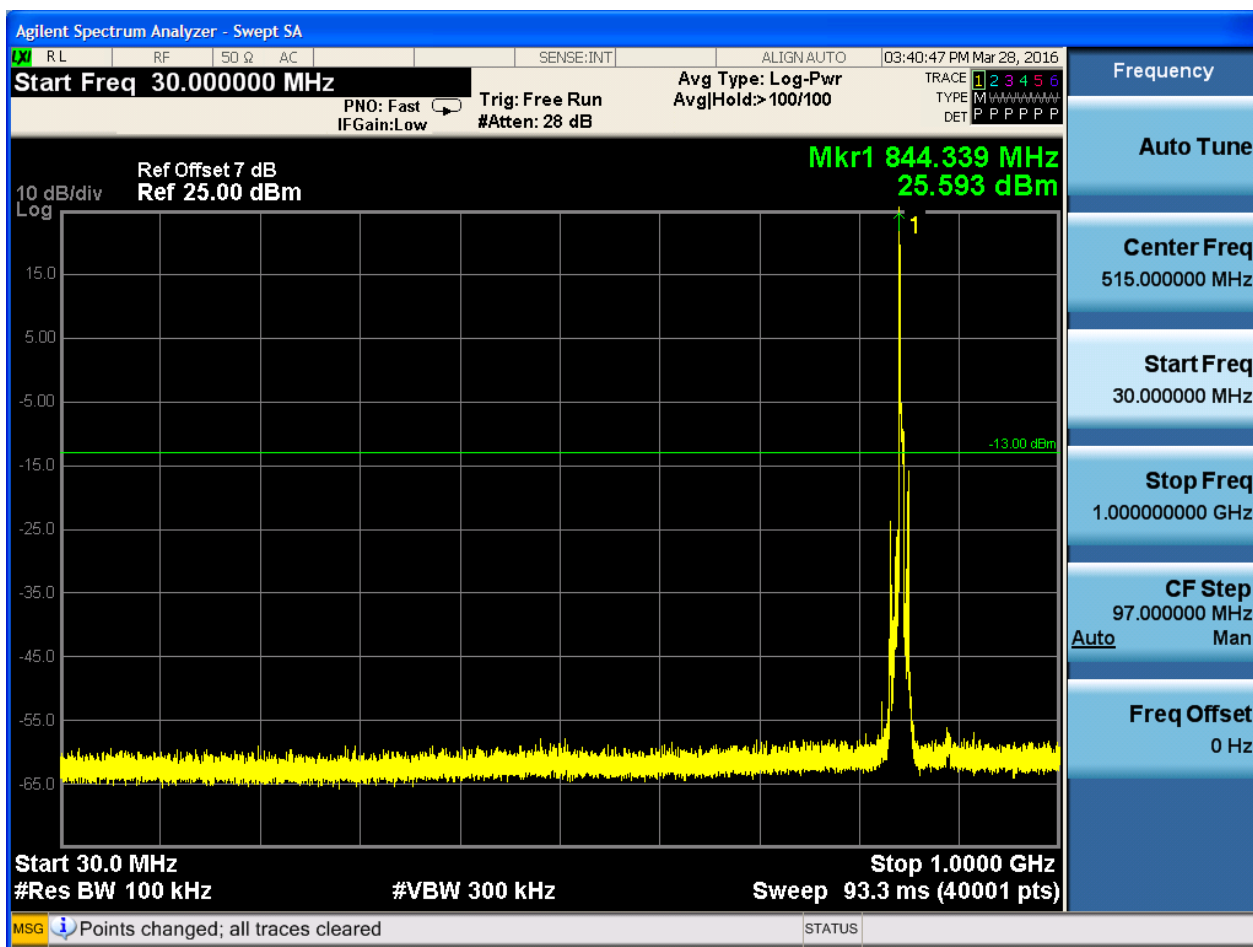


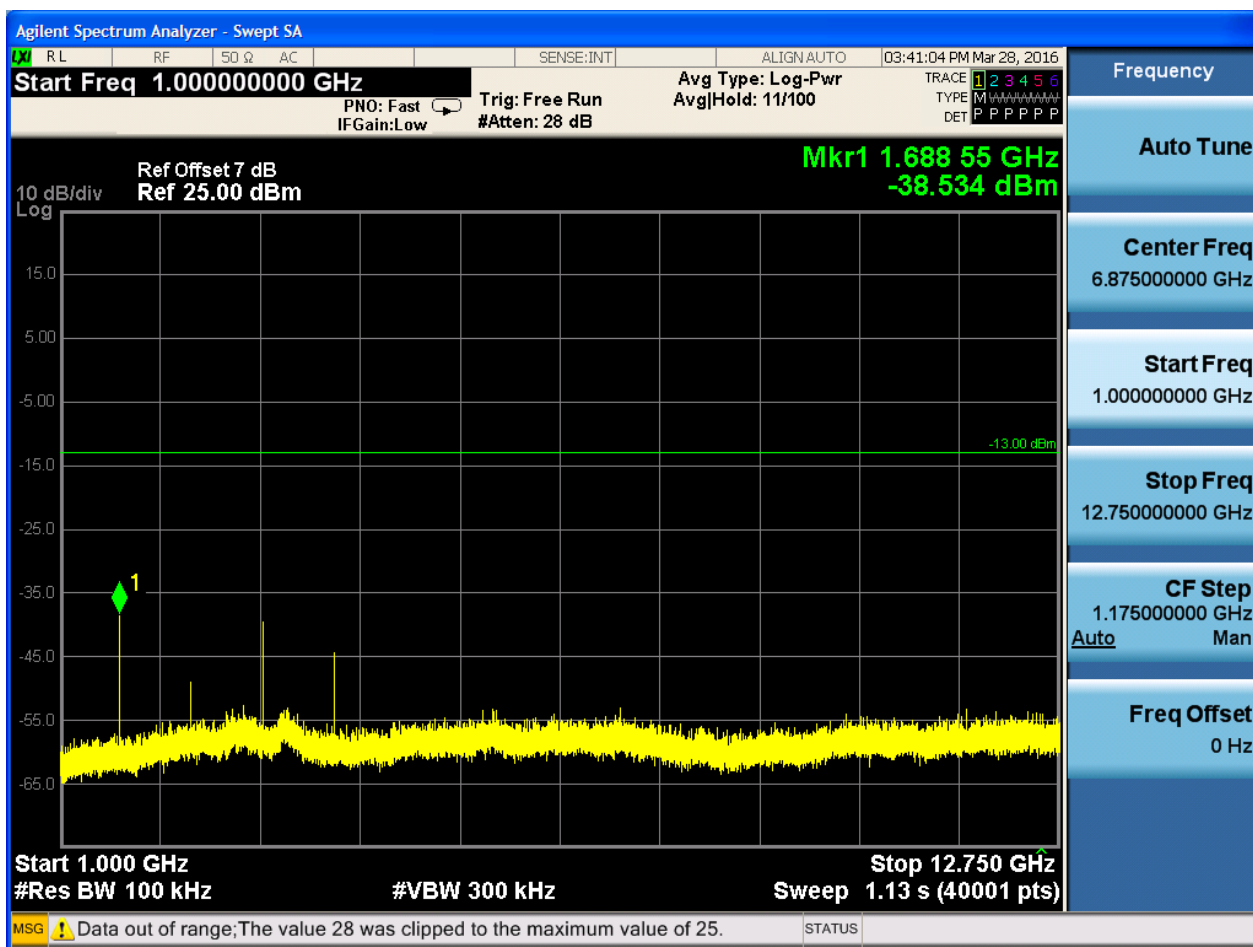
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







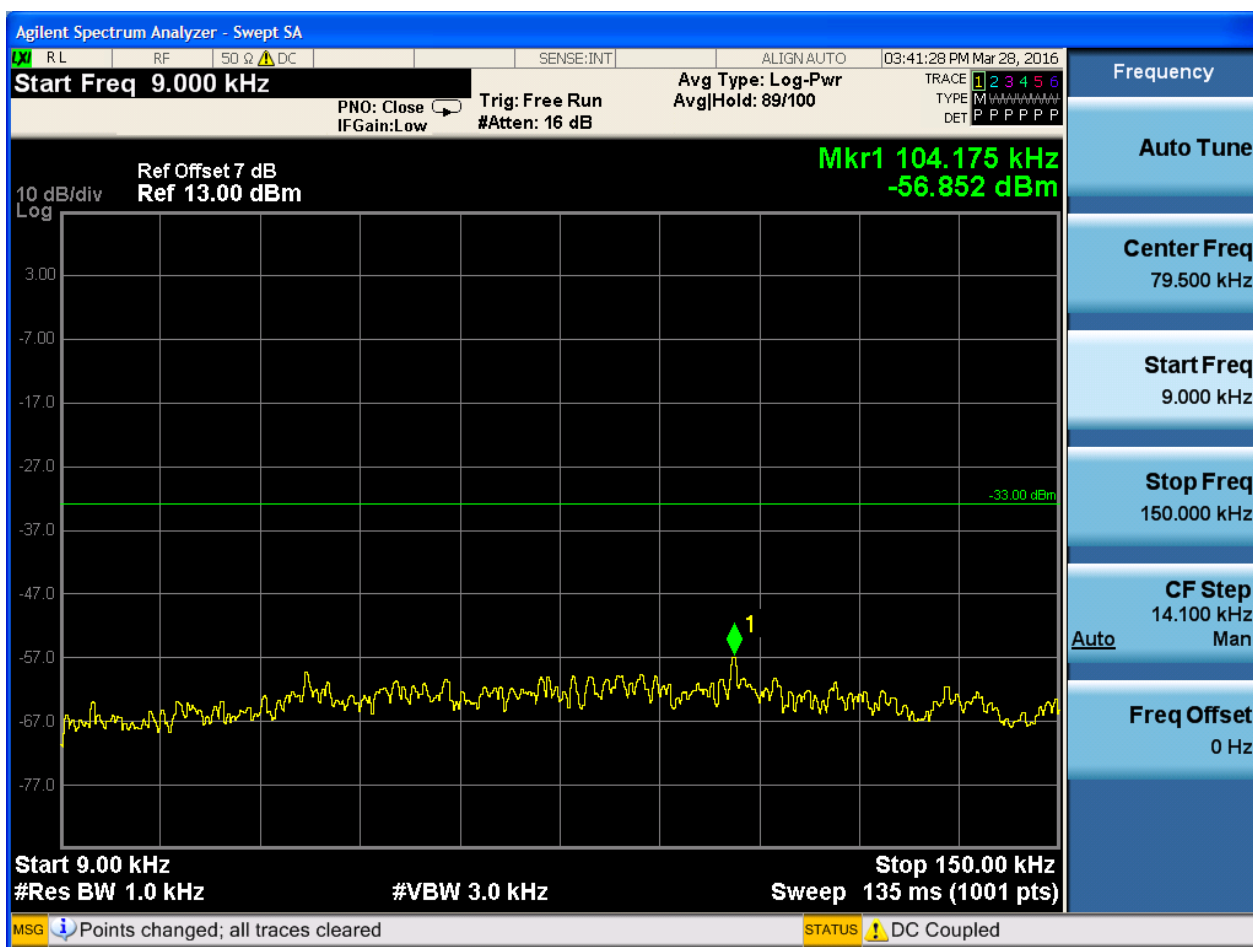


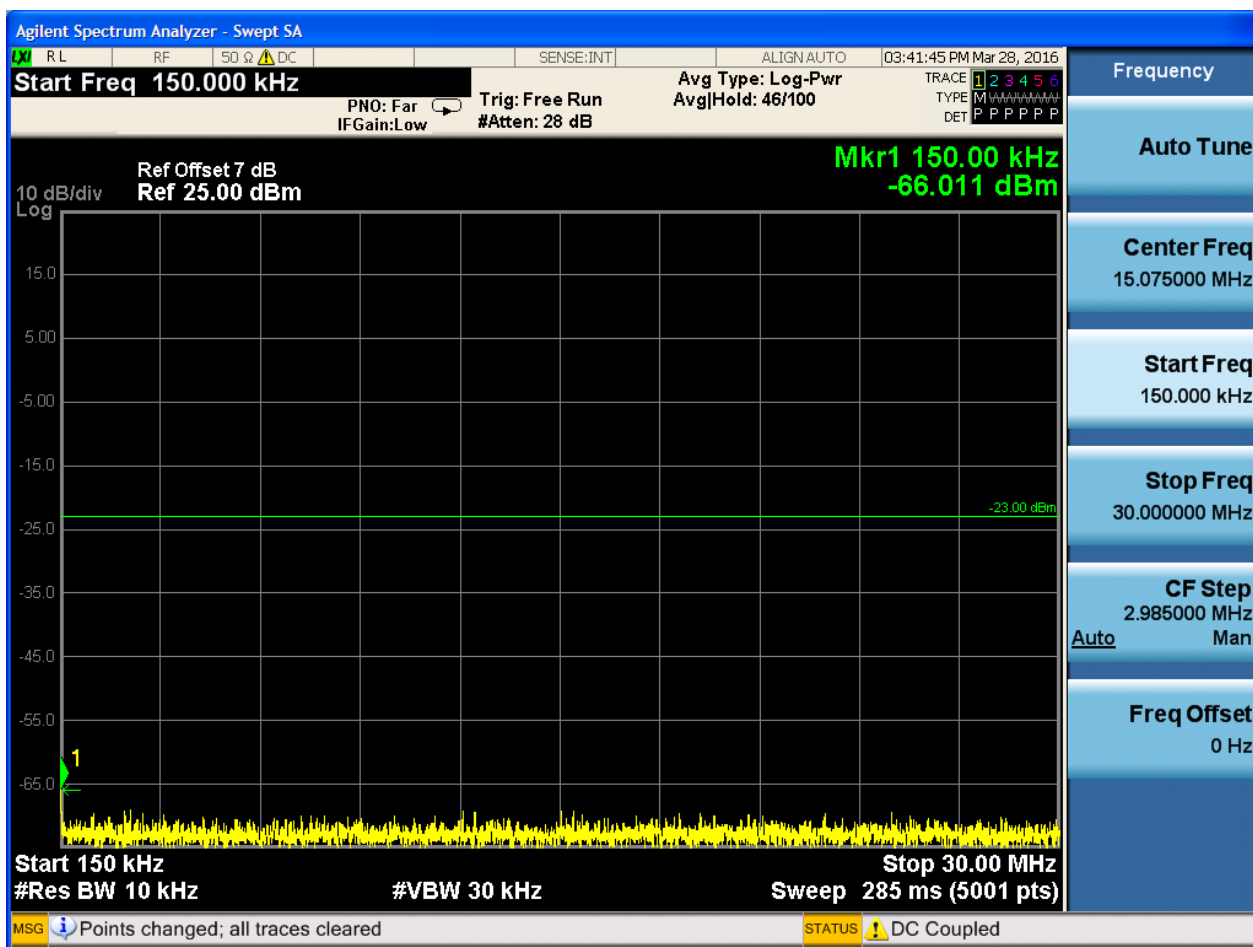


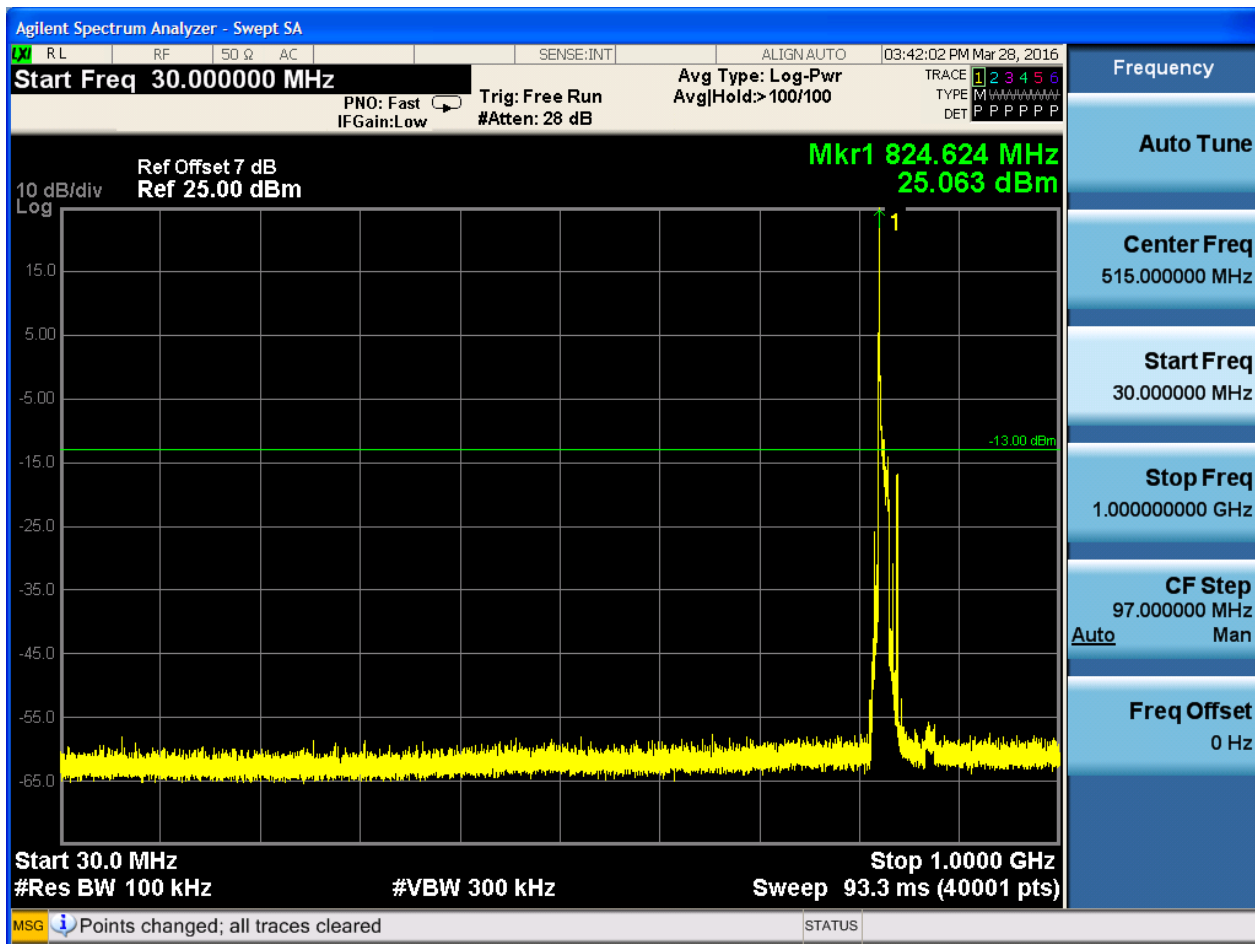
6.1.1.1.4 Test Bandwidth = 10

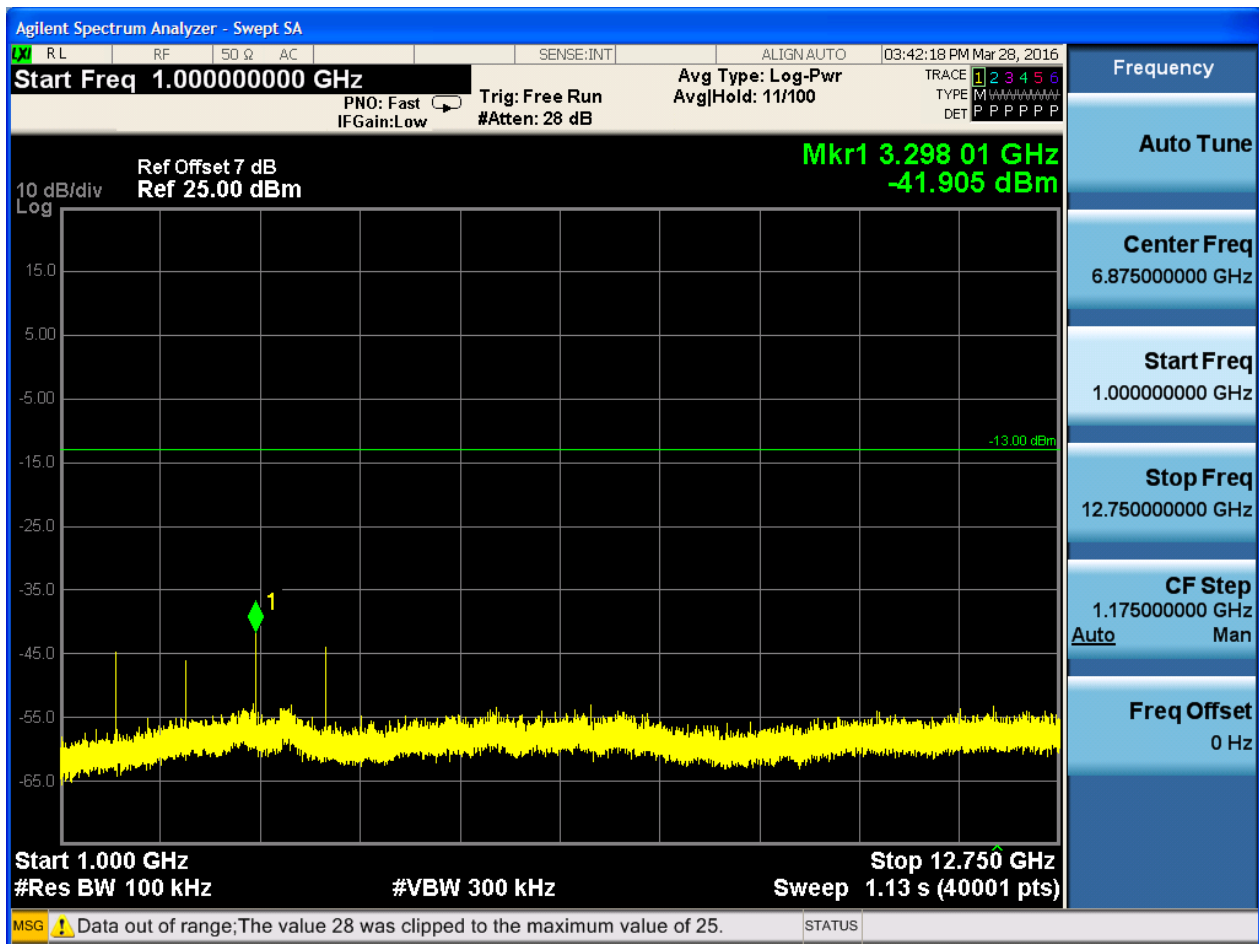
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





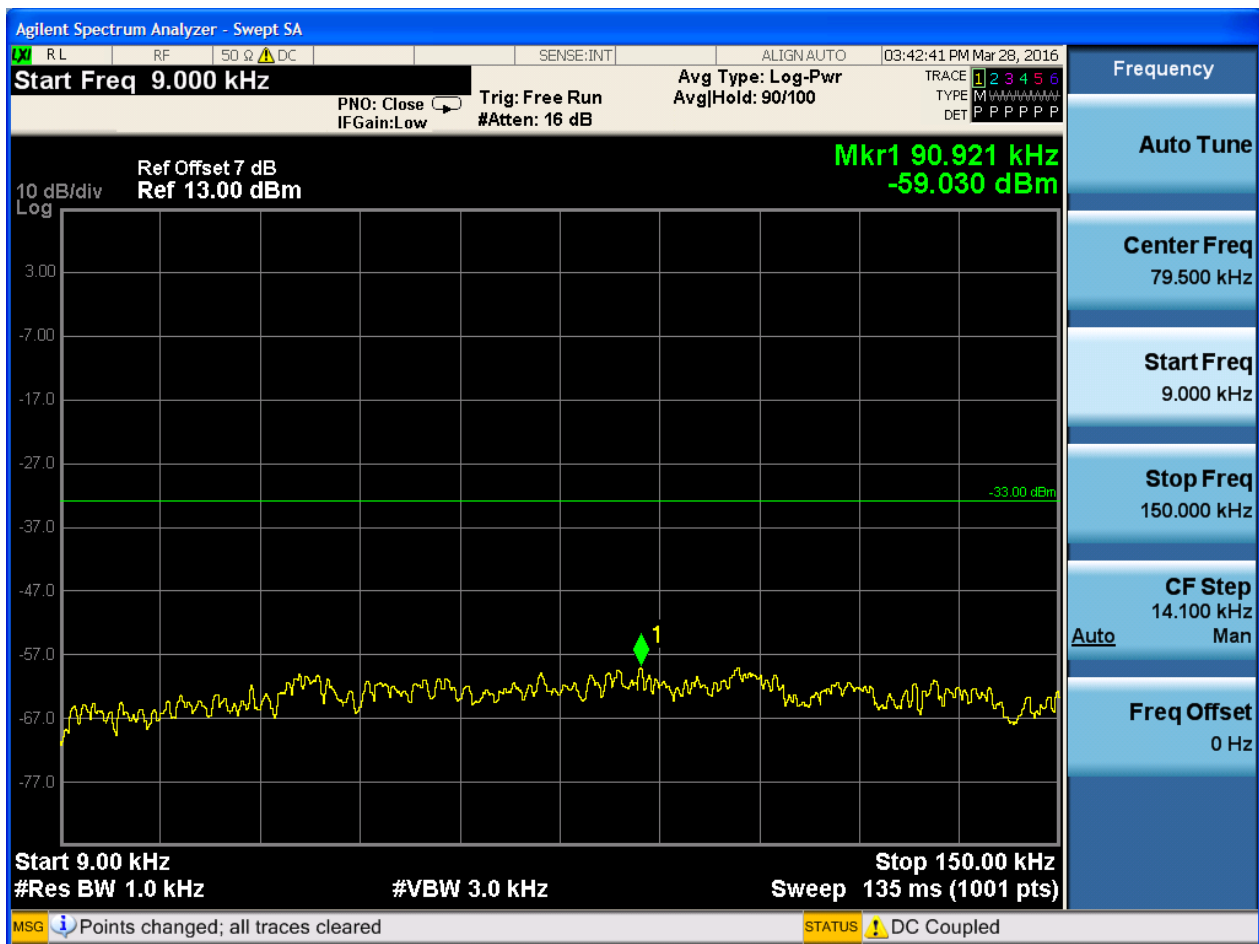




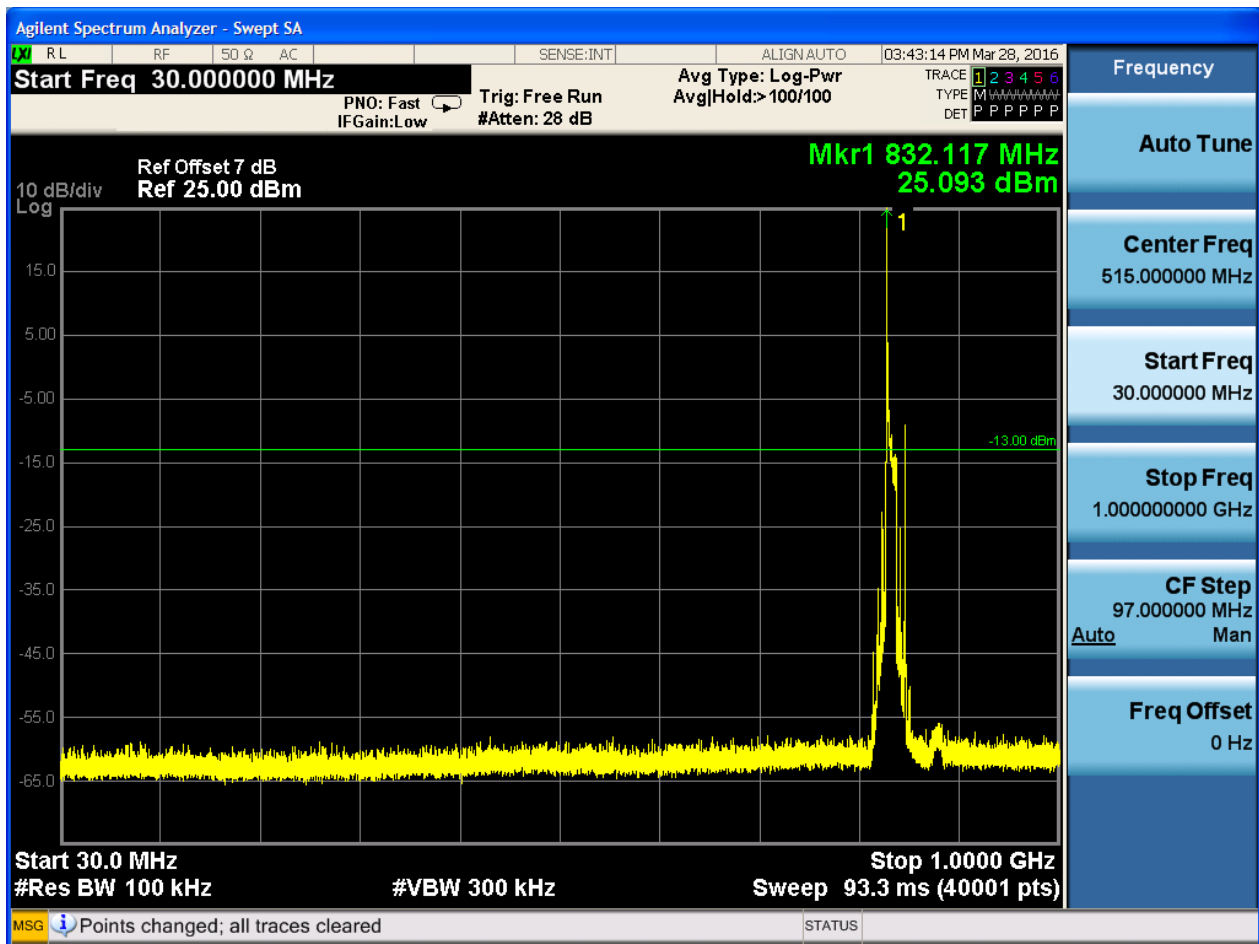


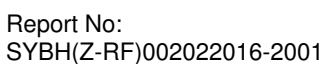
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





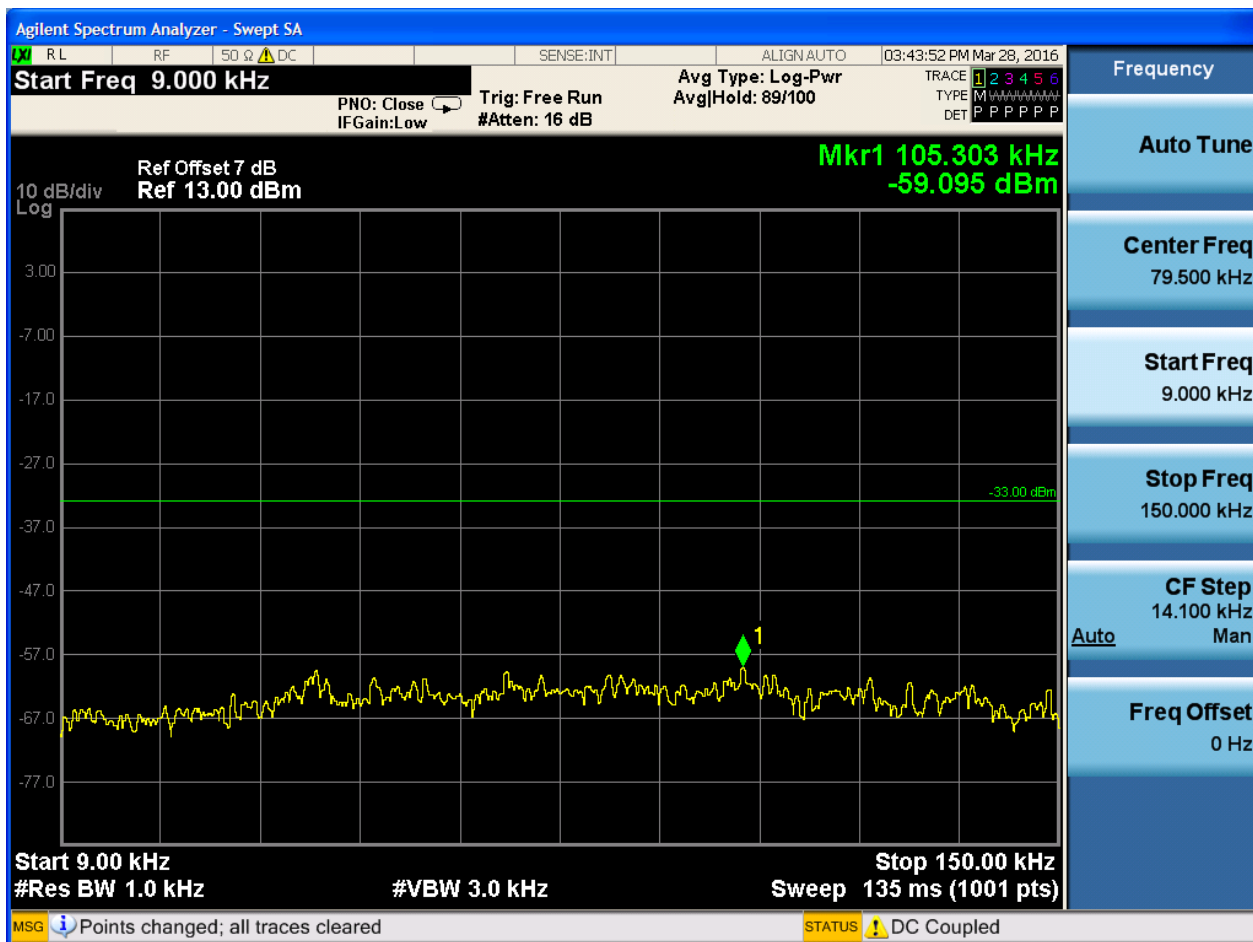


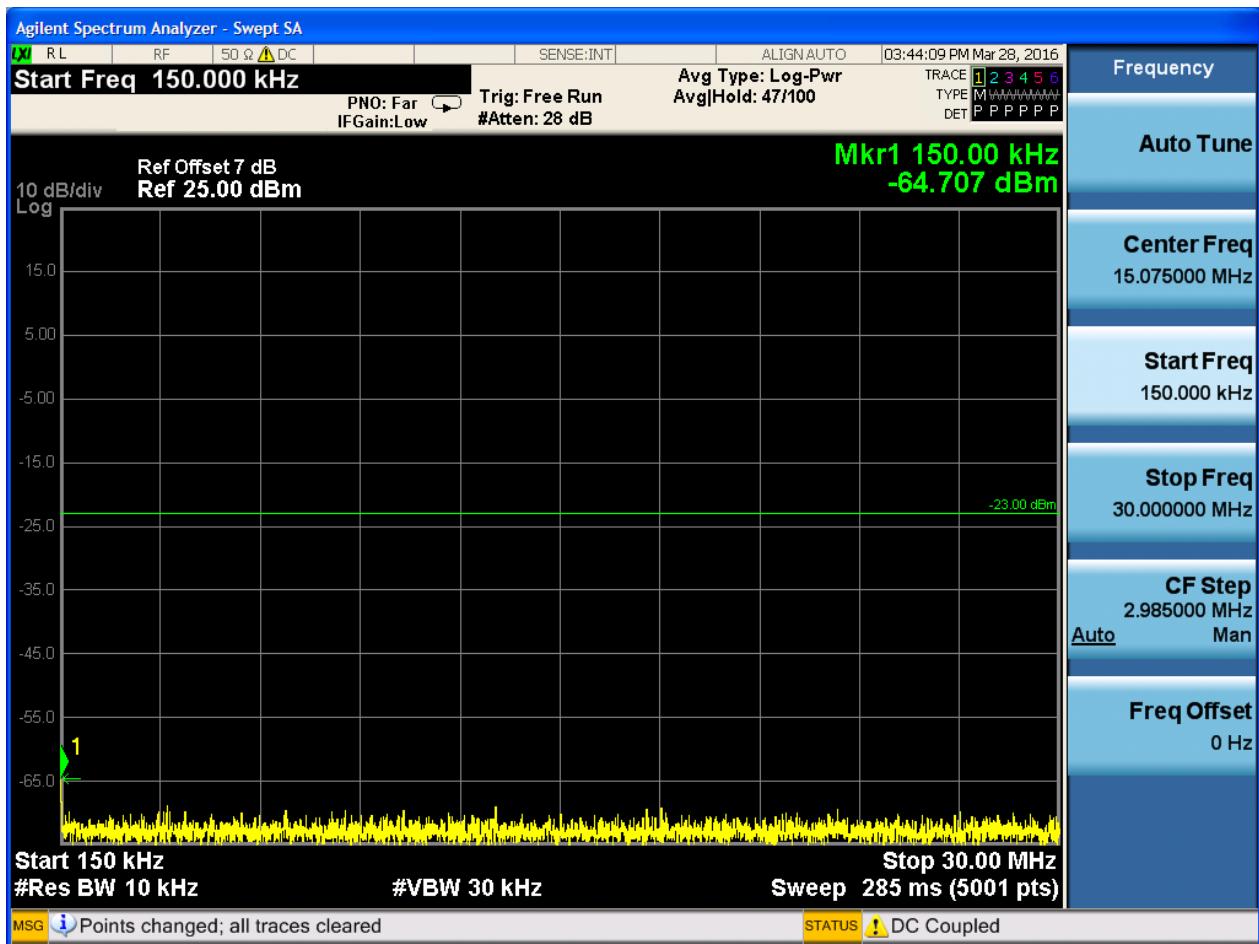


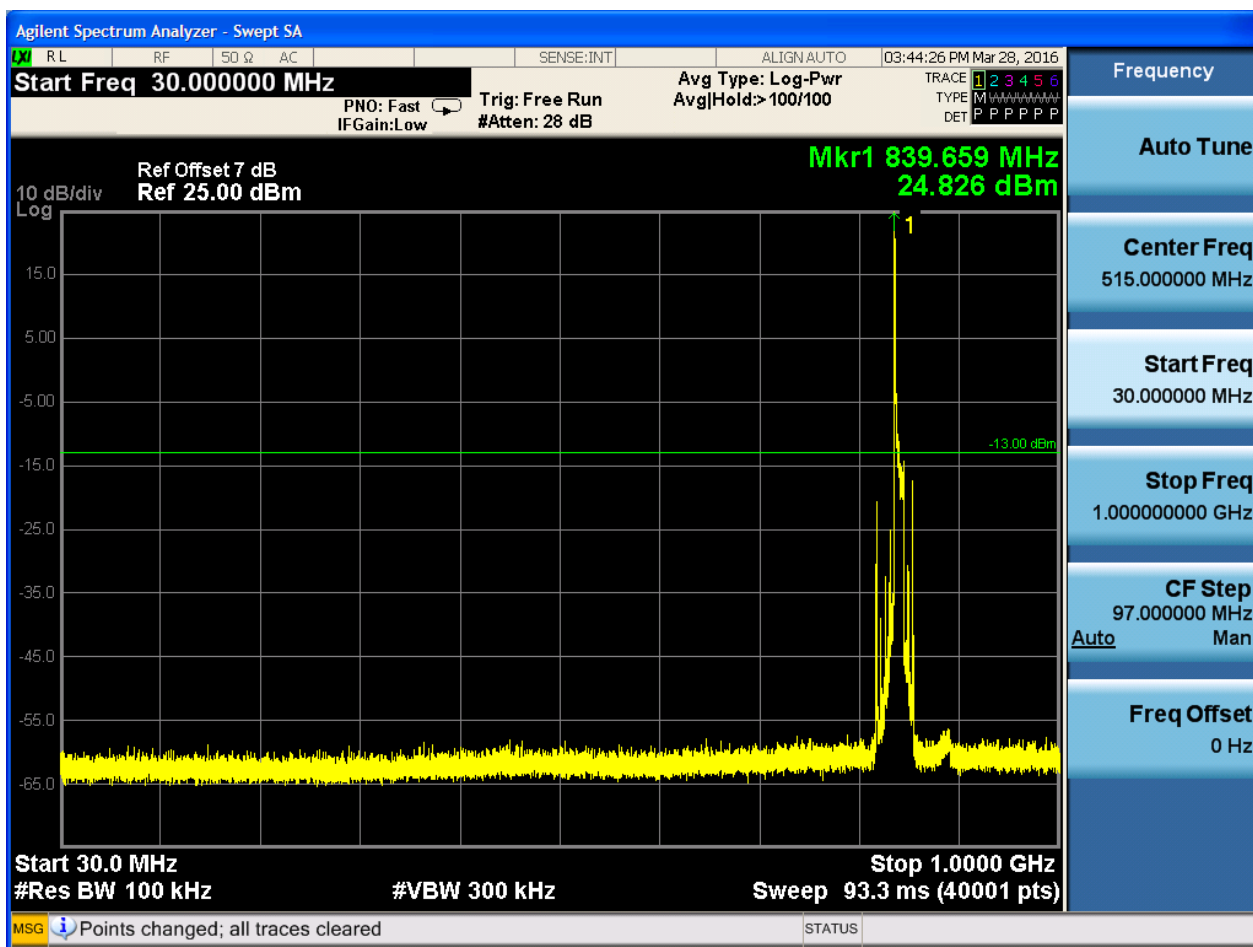


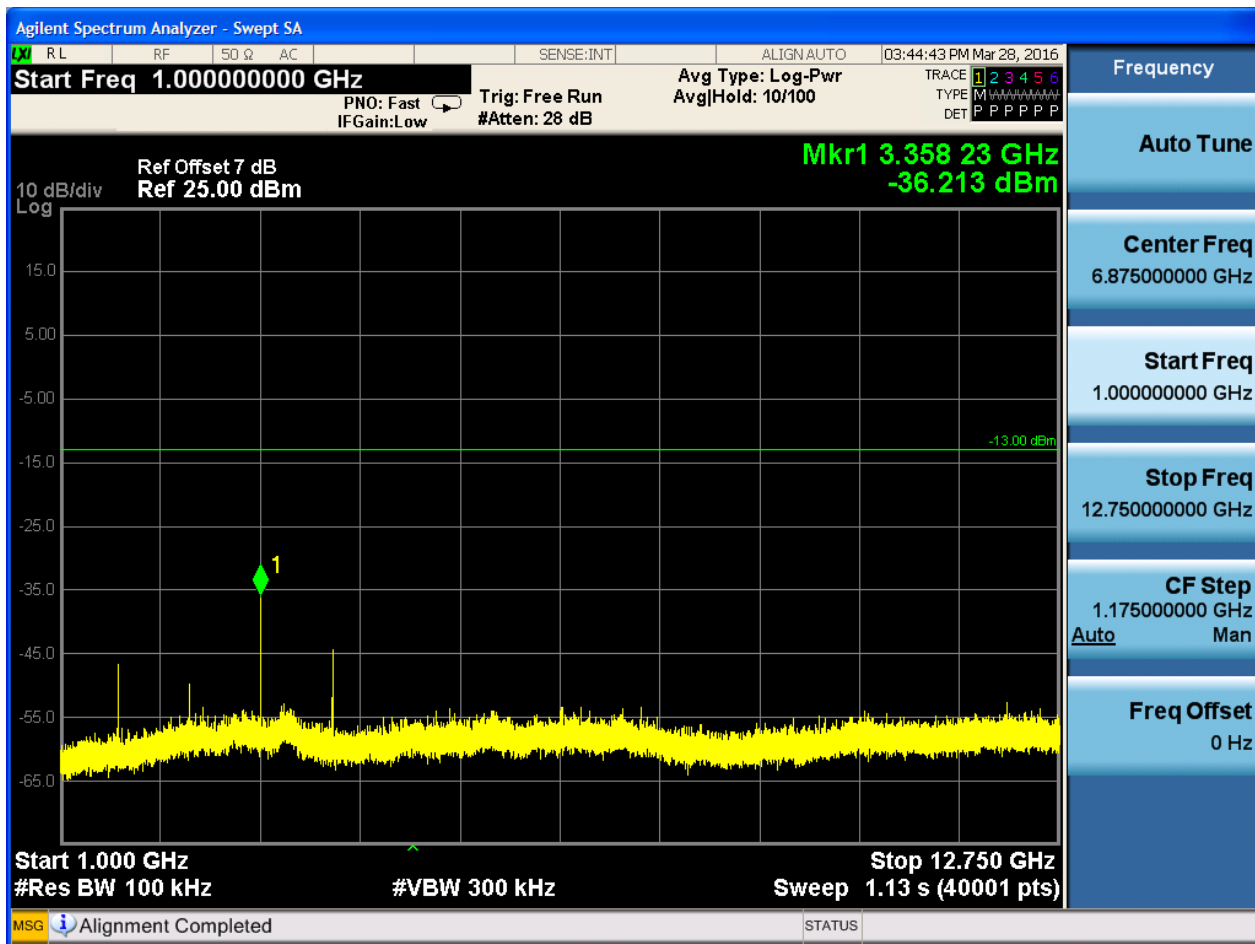
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









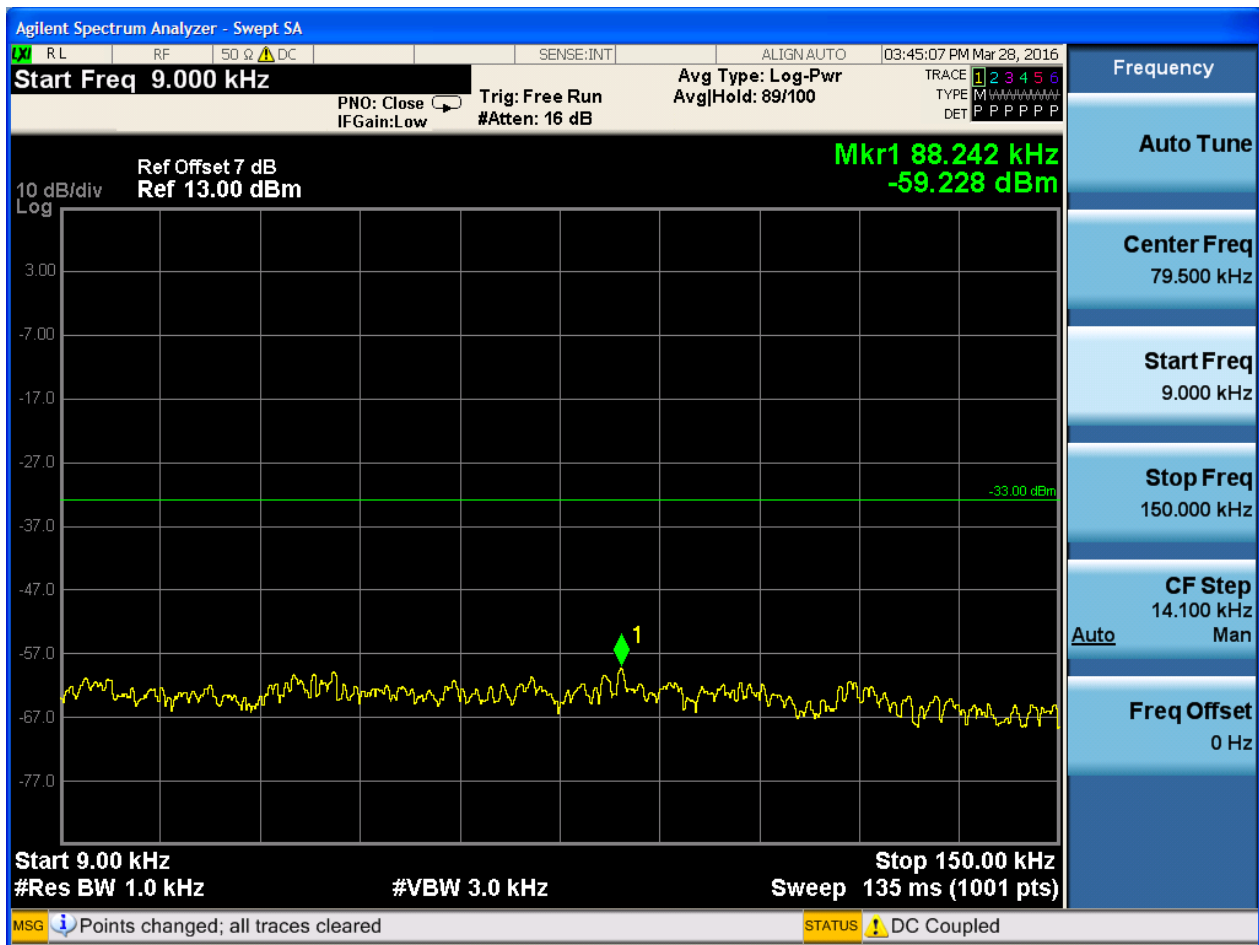


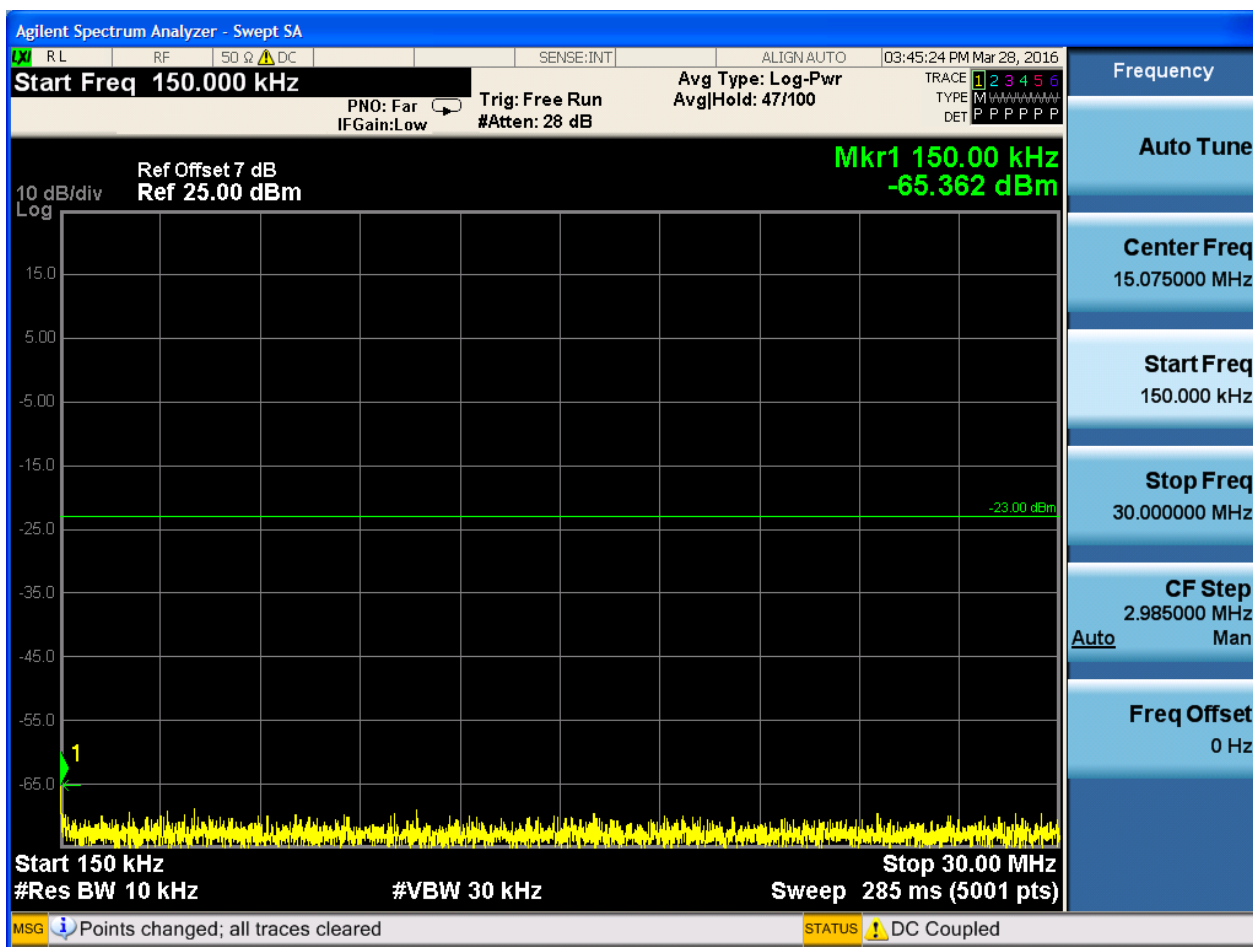
6.1.1.2 Test Mode = LTE/TM2

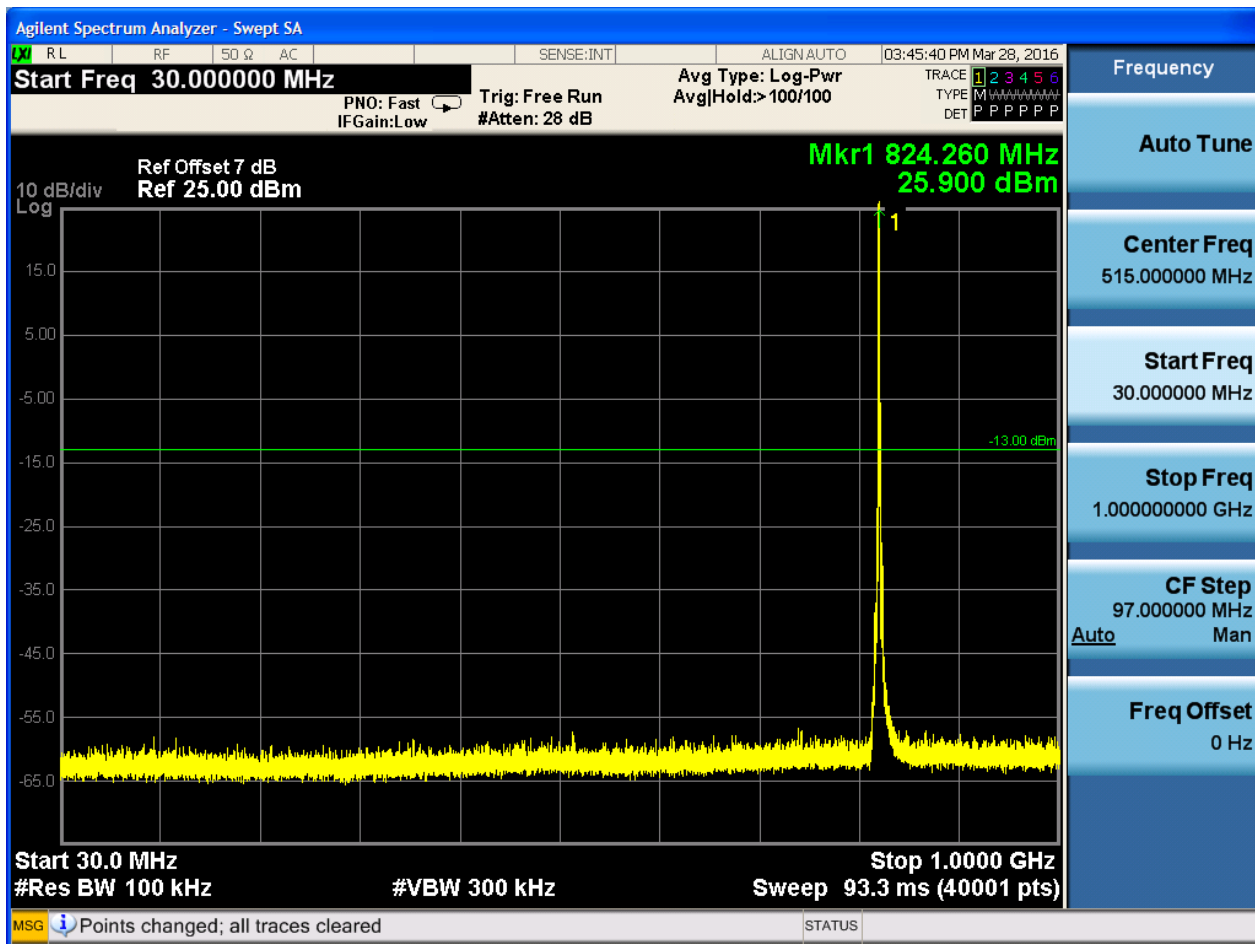
6.1.1.2.1 Test Bandwidth = 1.4

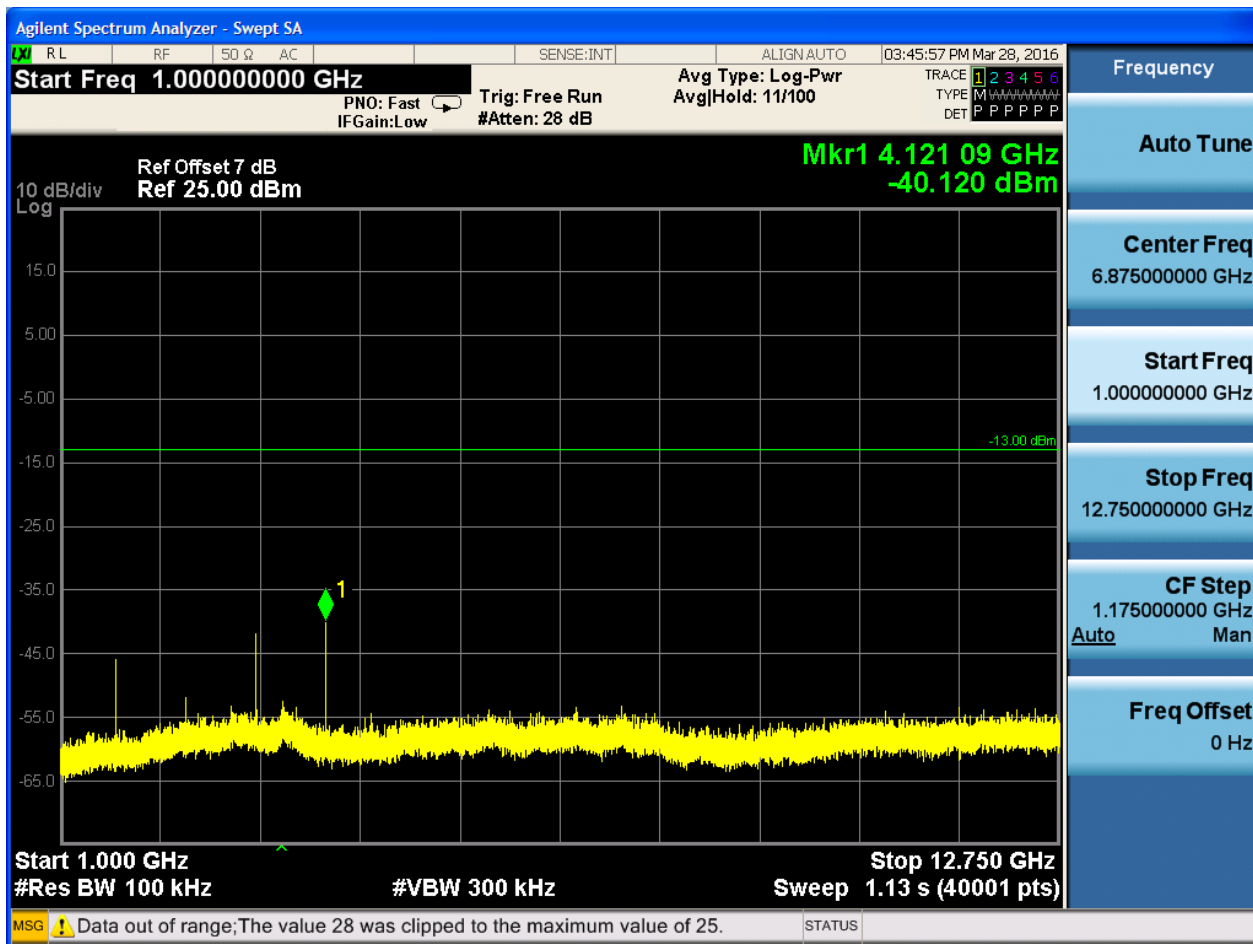
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





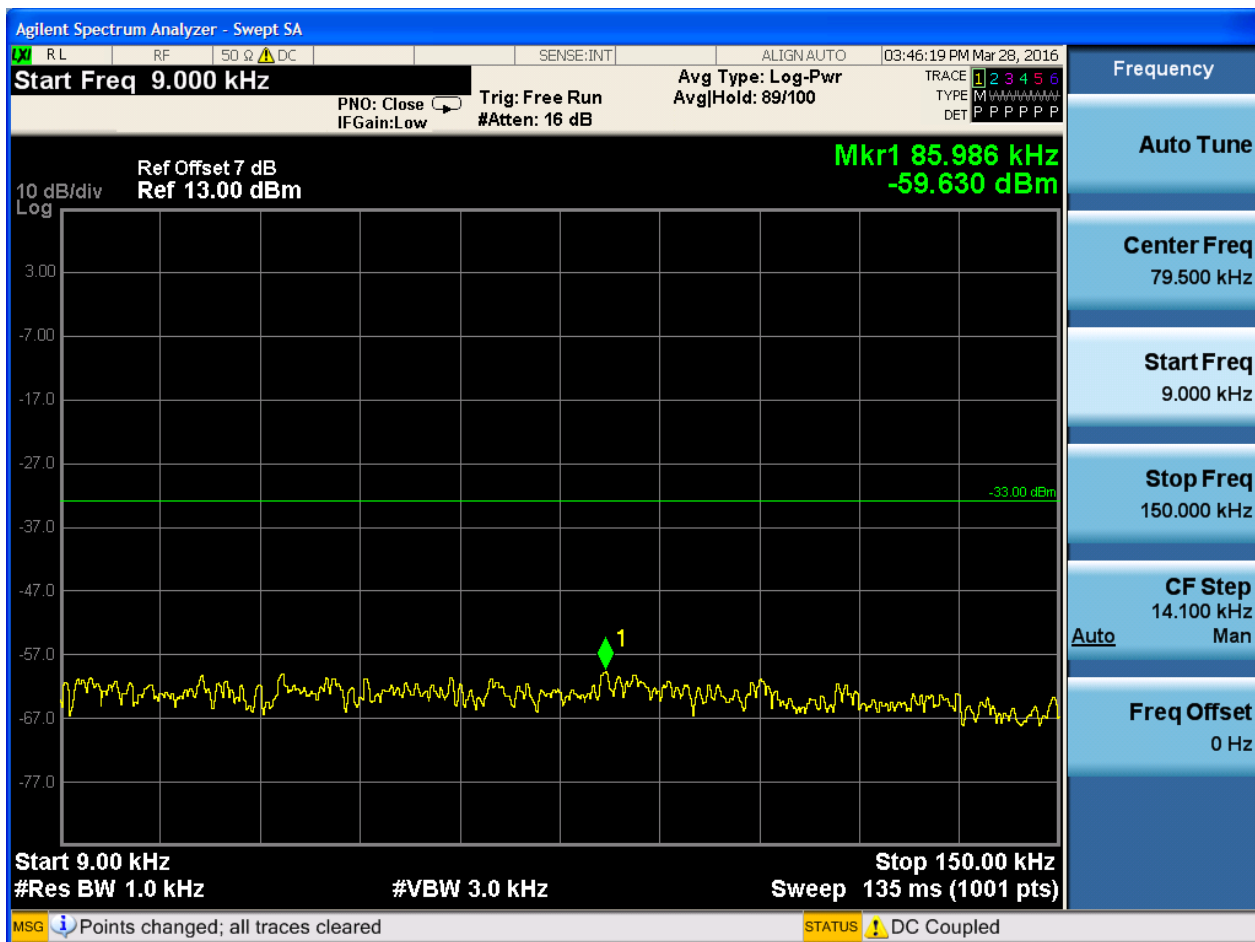




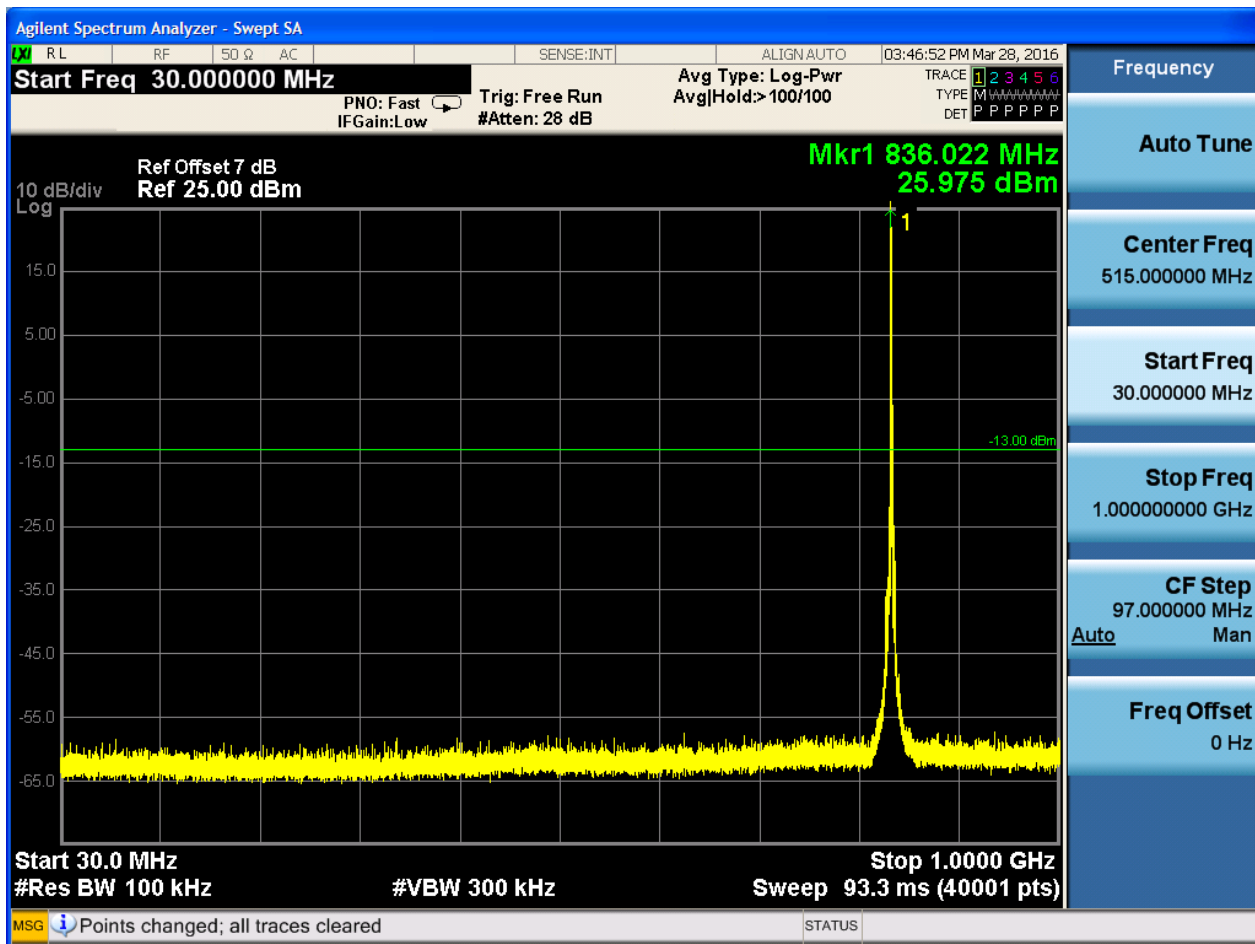


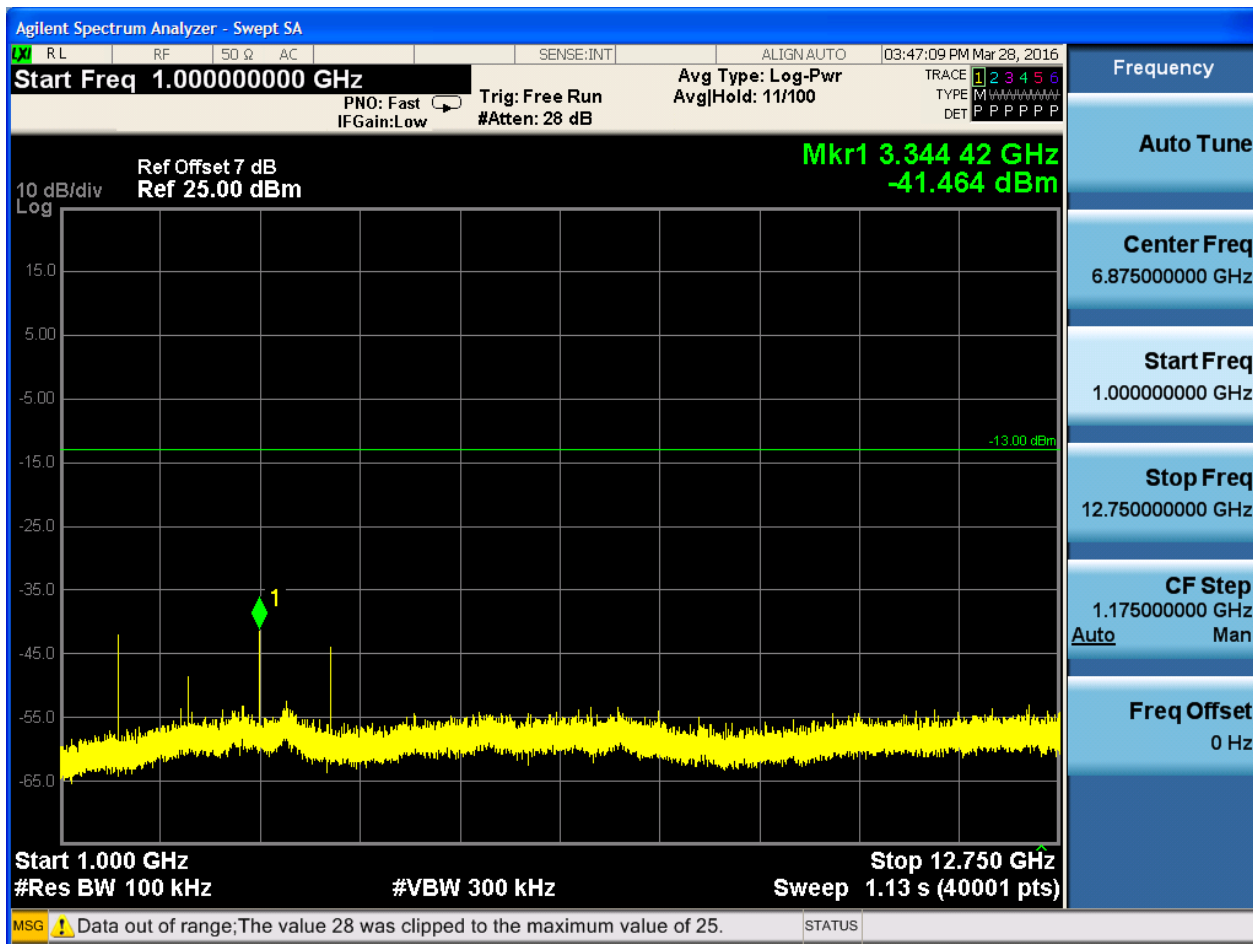
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





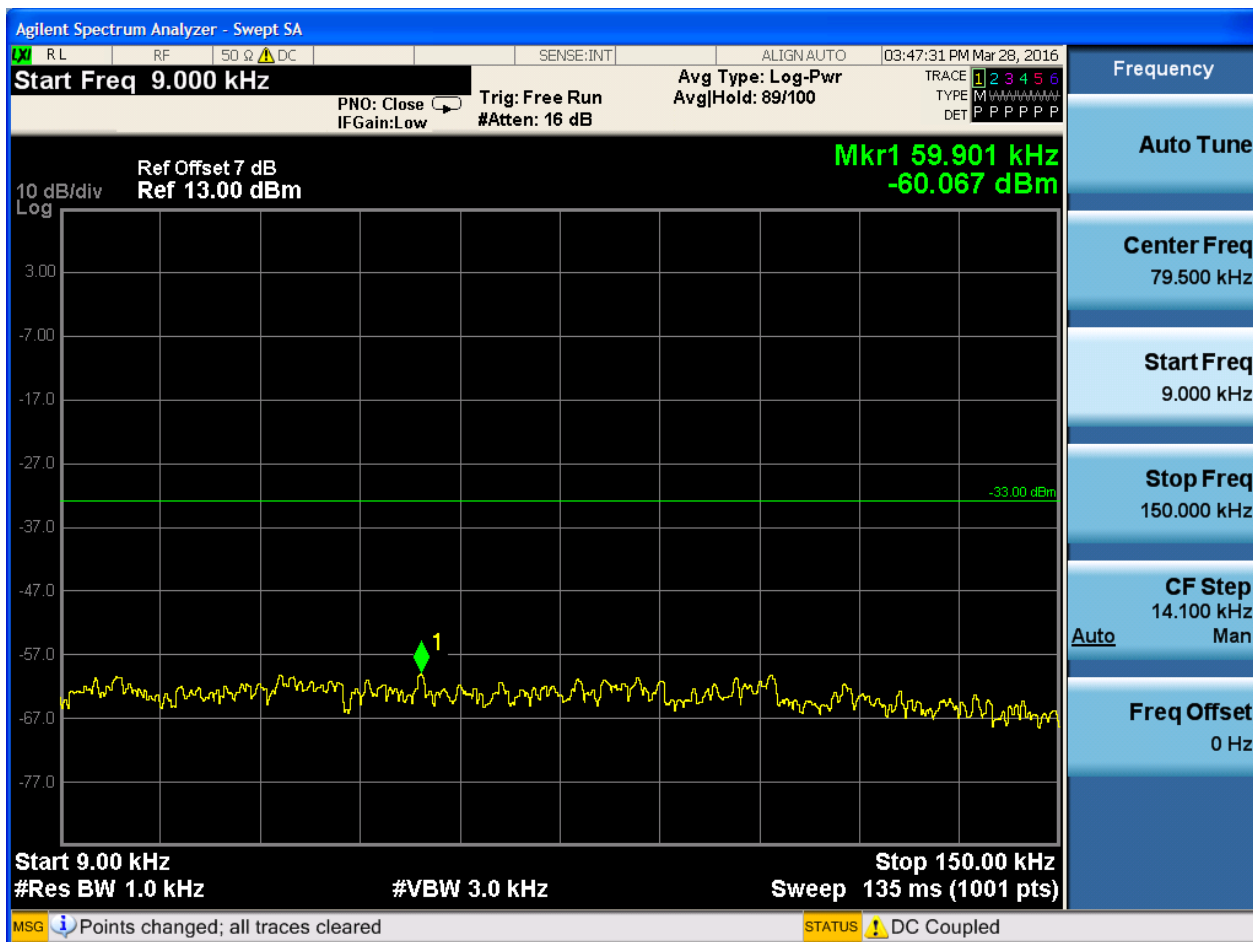


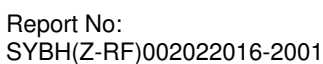


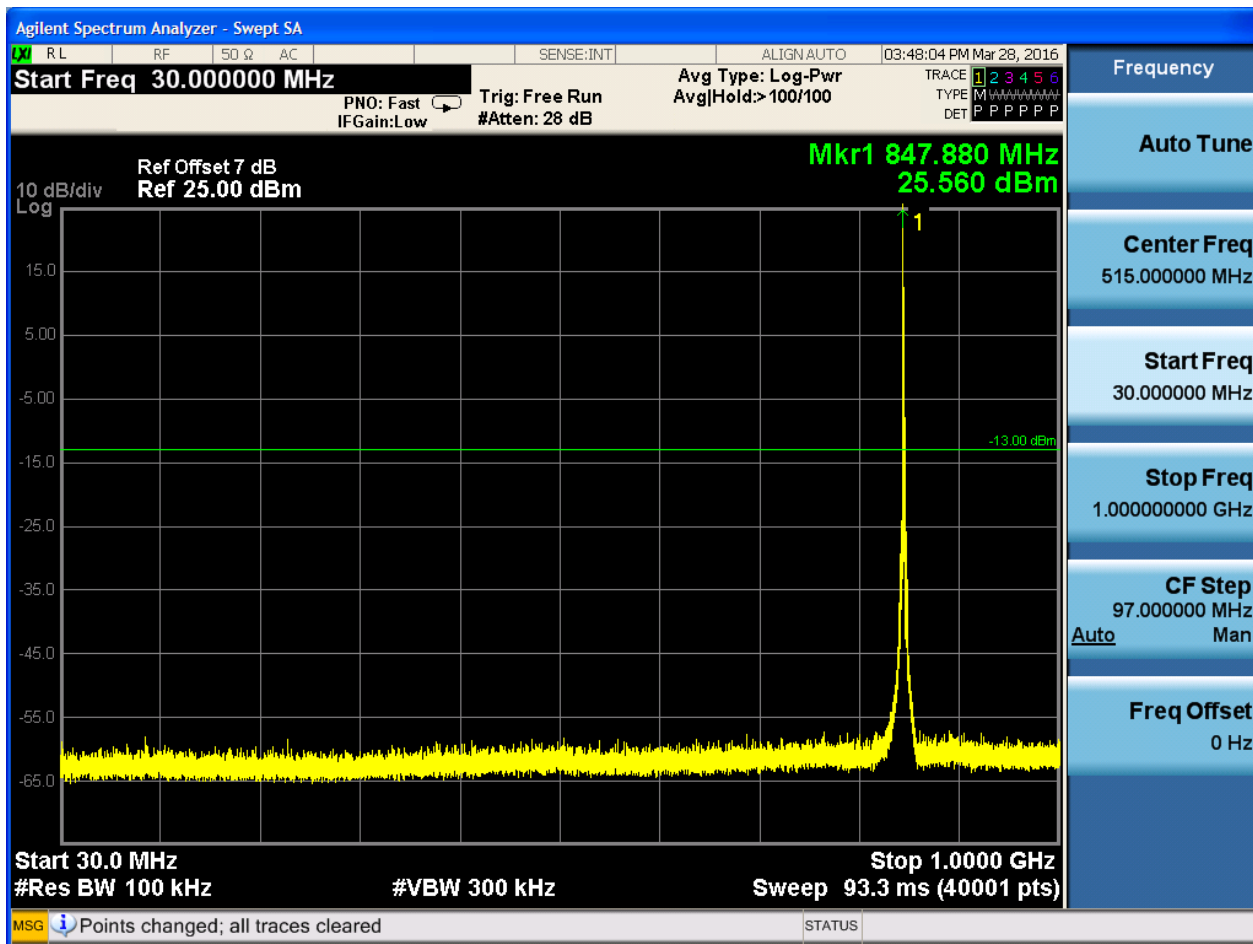


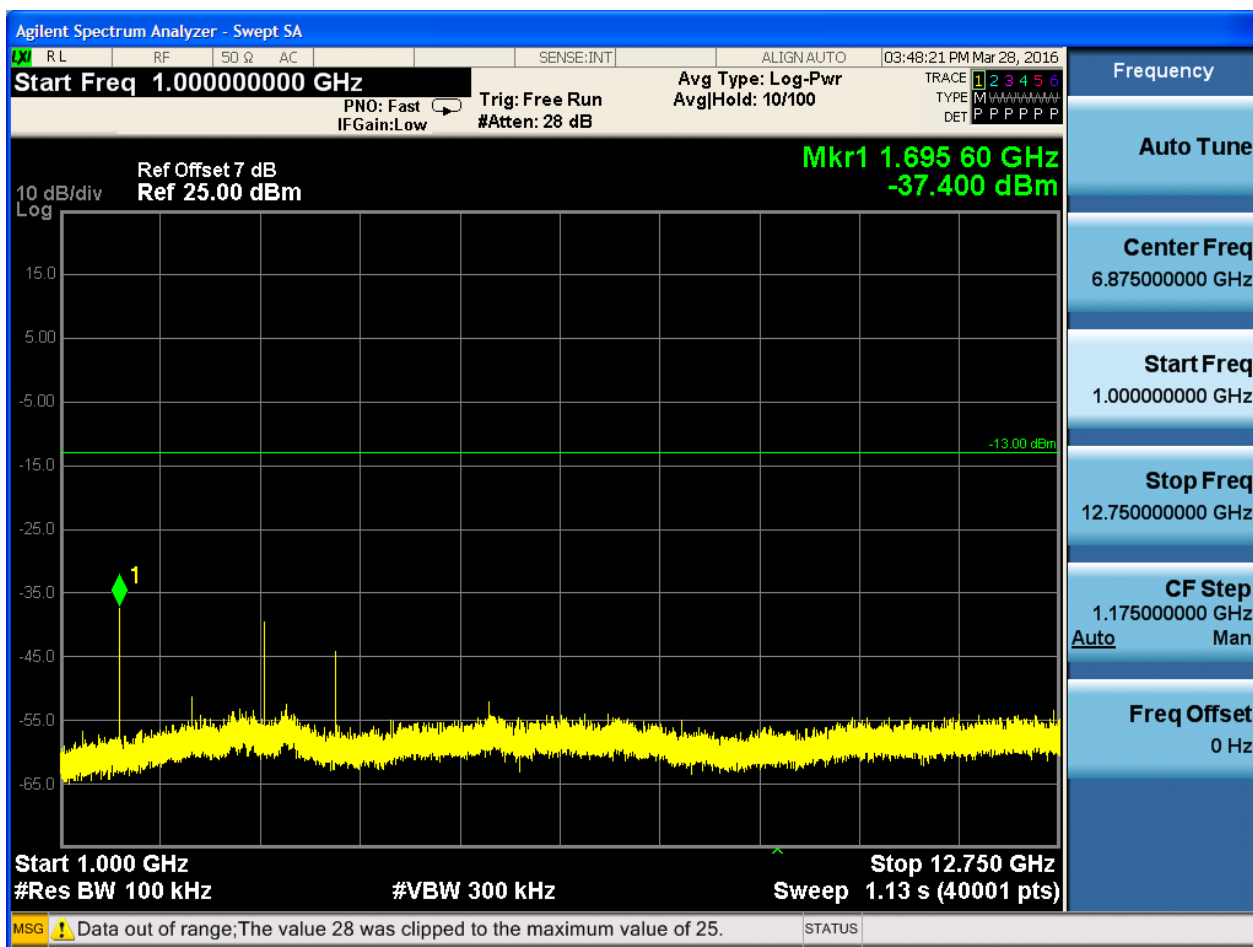
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







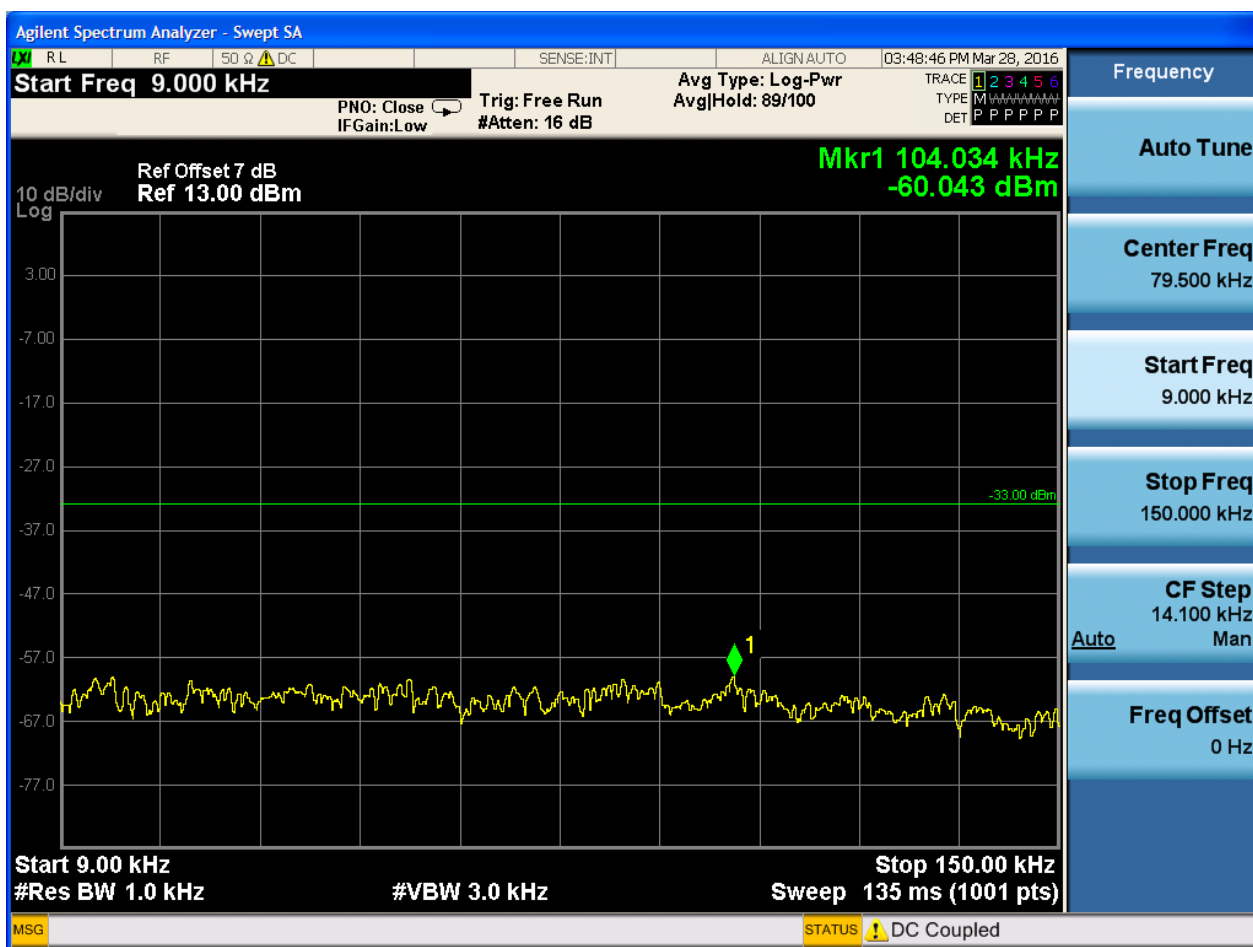


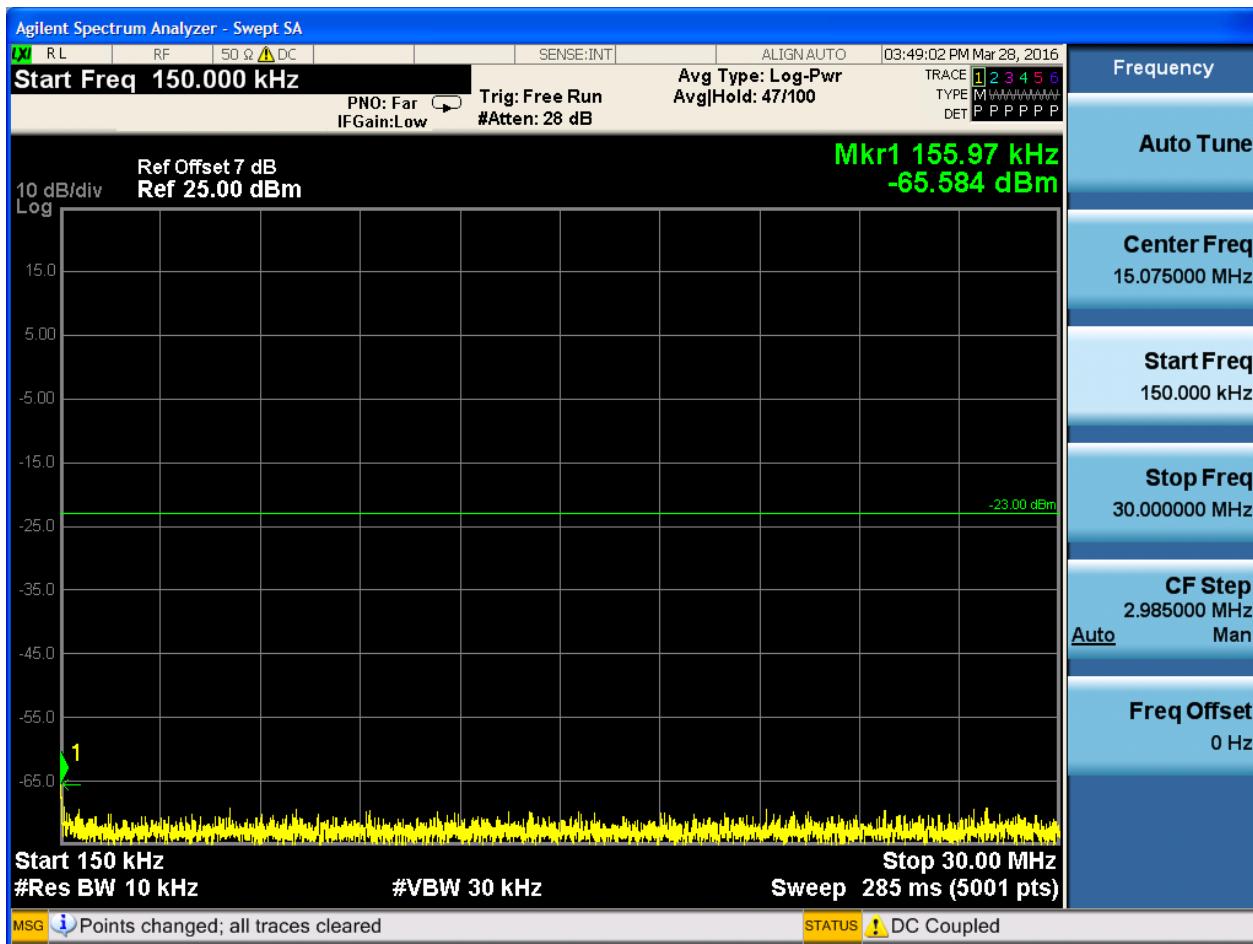


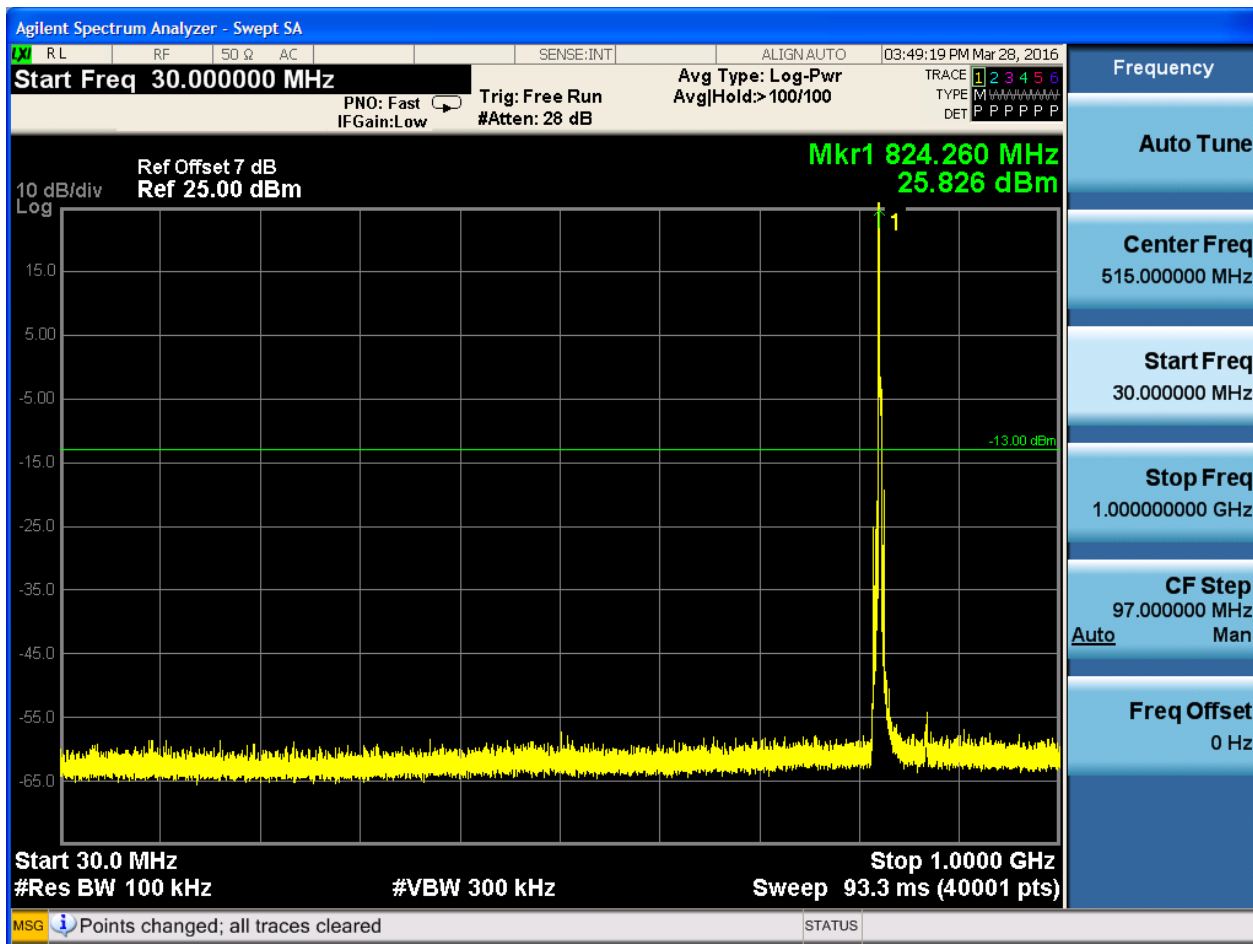
6.1.1.2.2 Test Bandwidth = 3

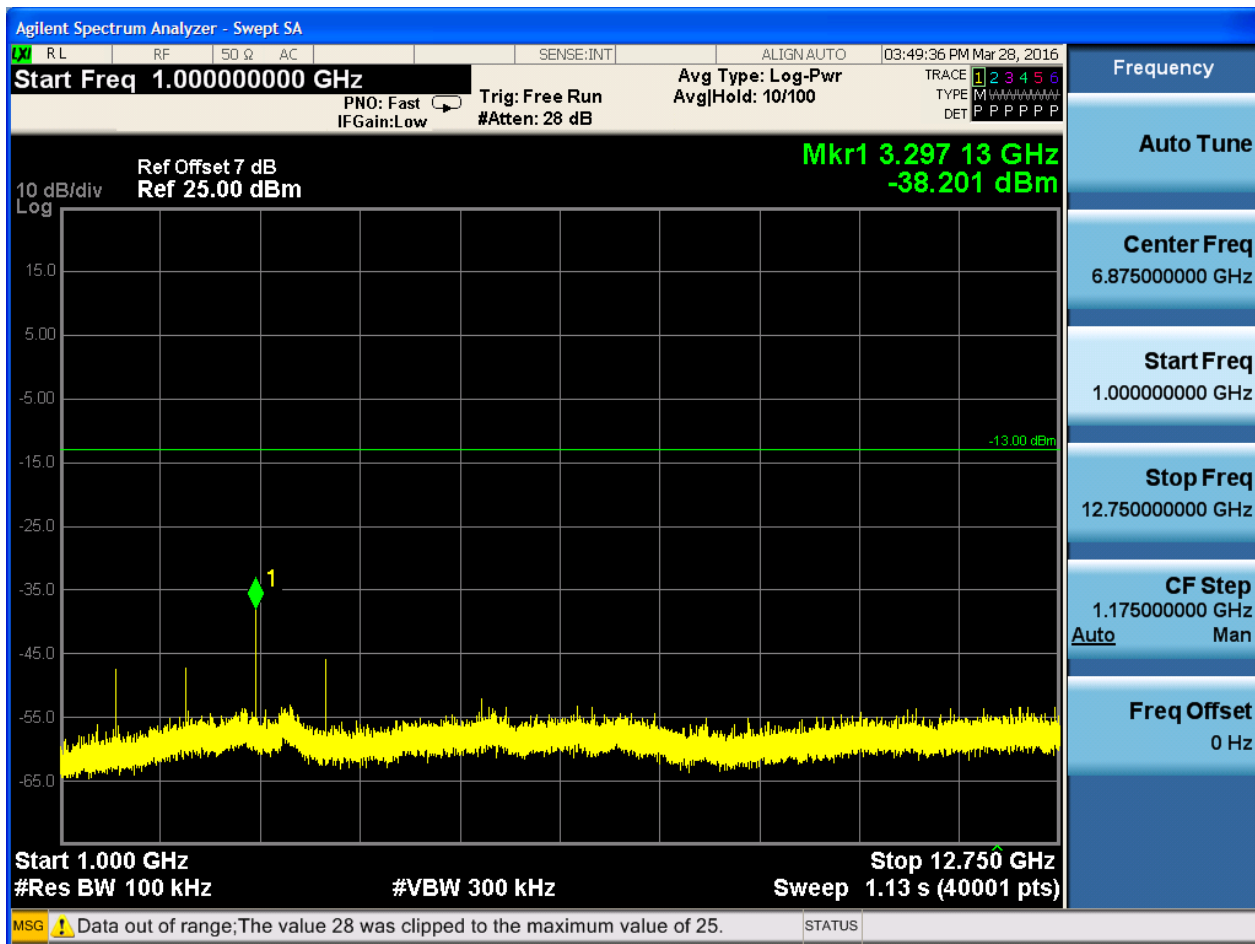
6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





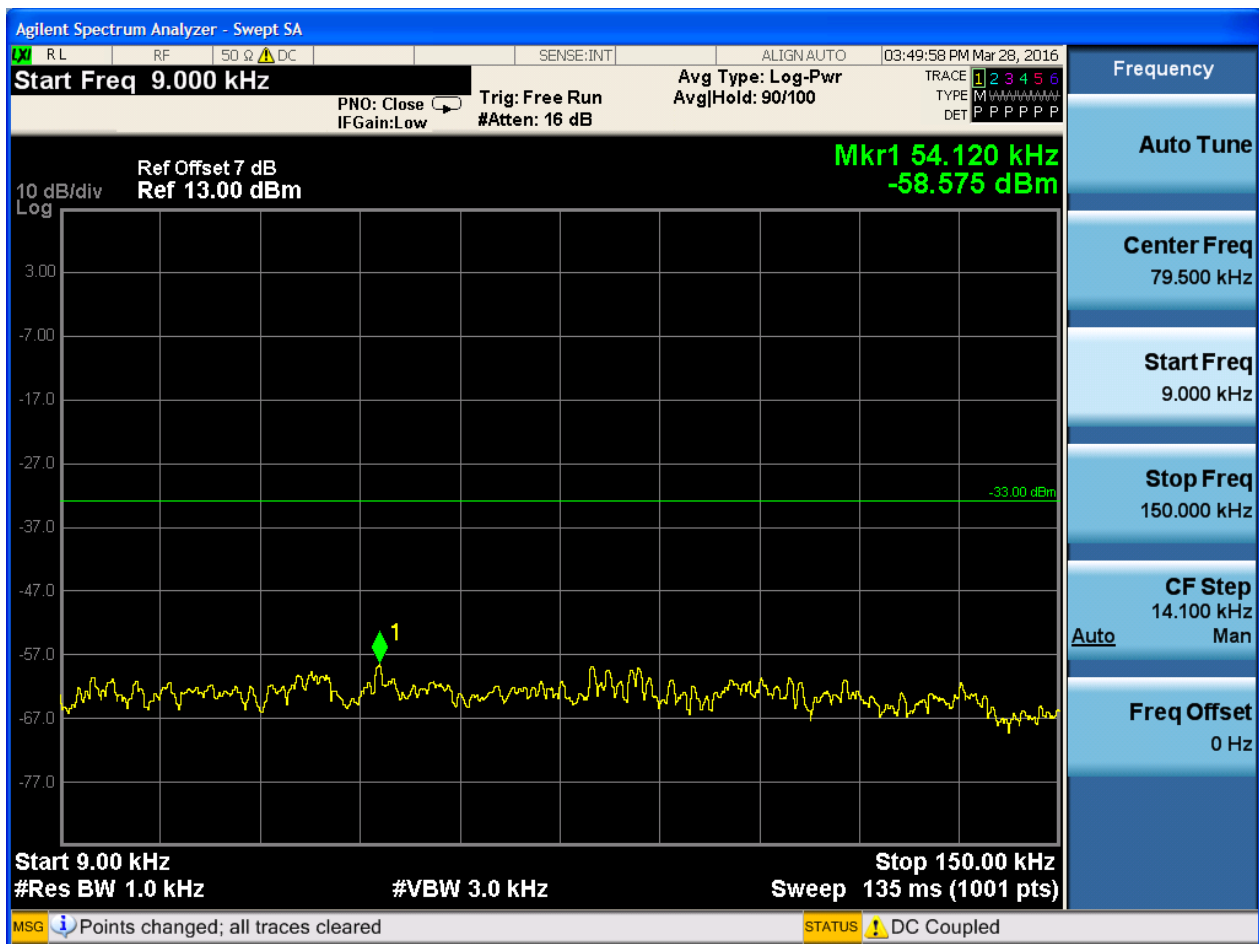




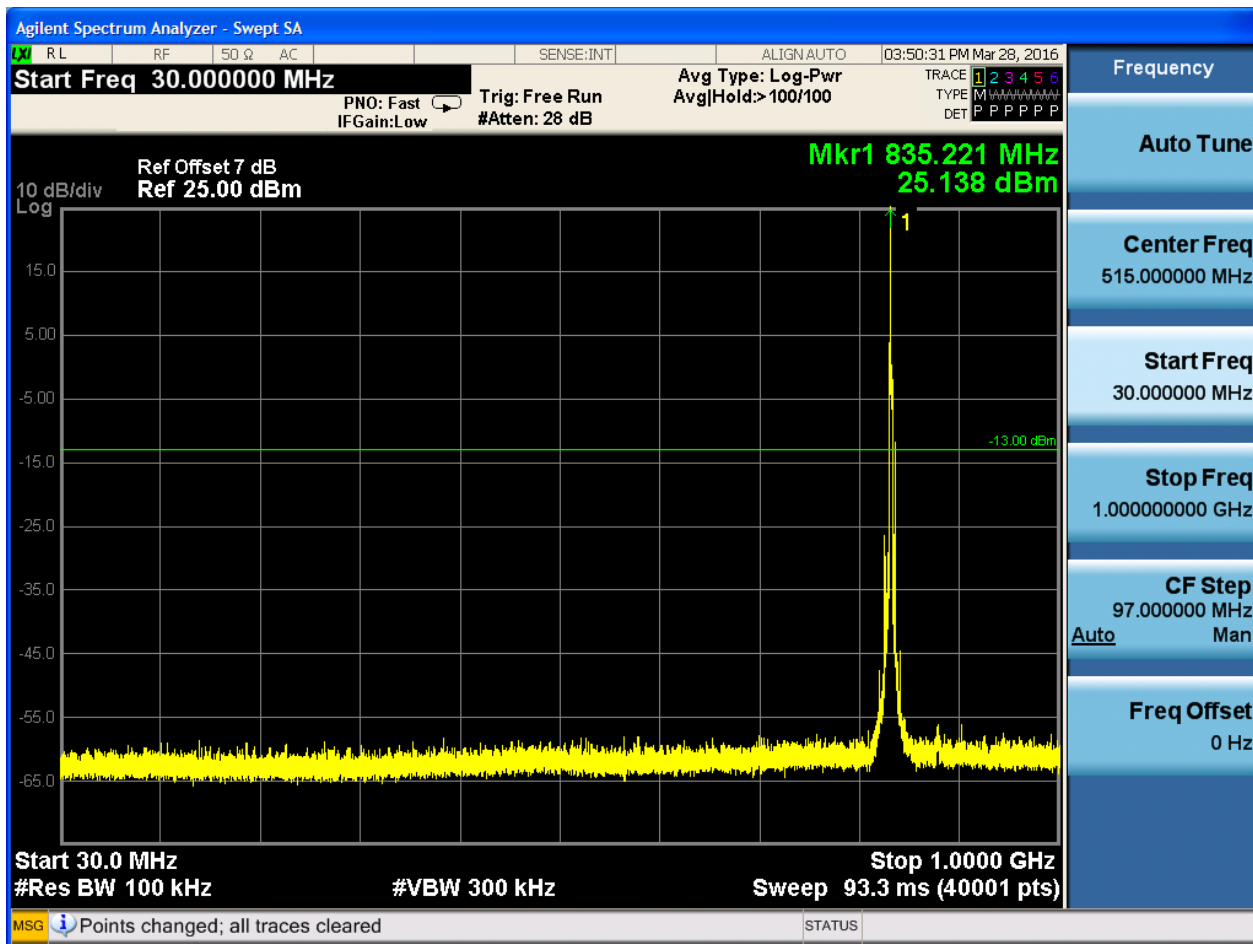


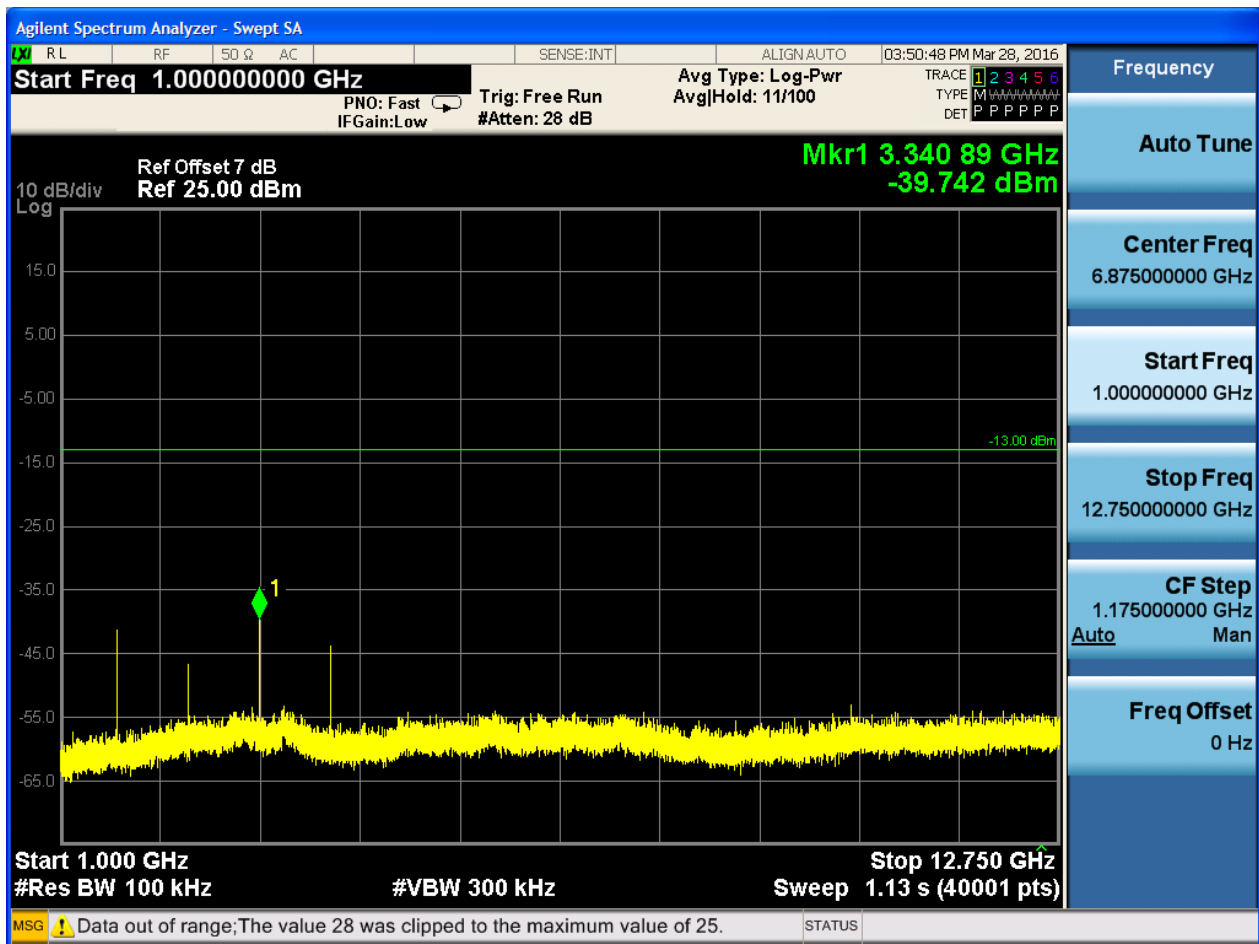
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0





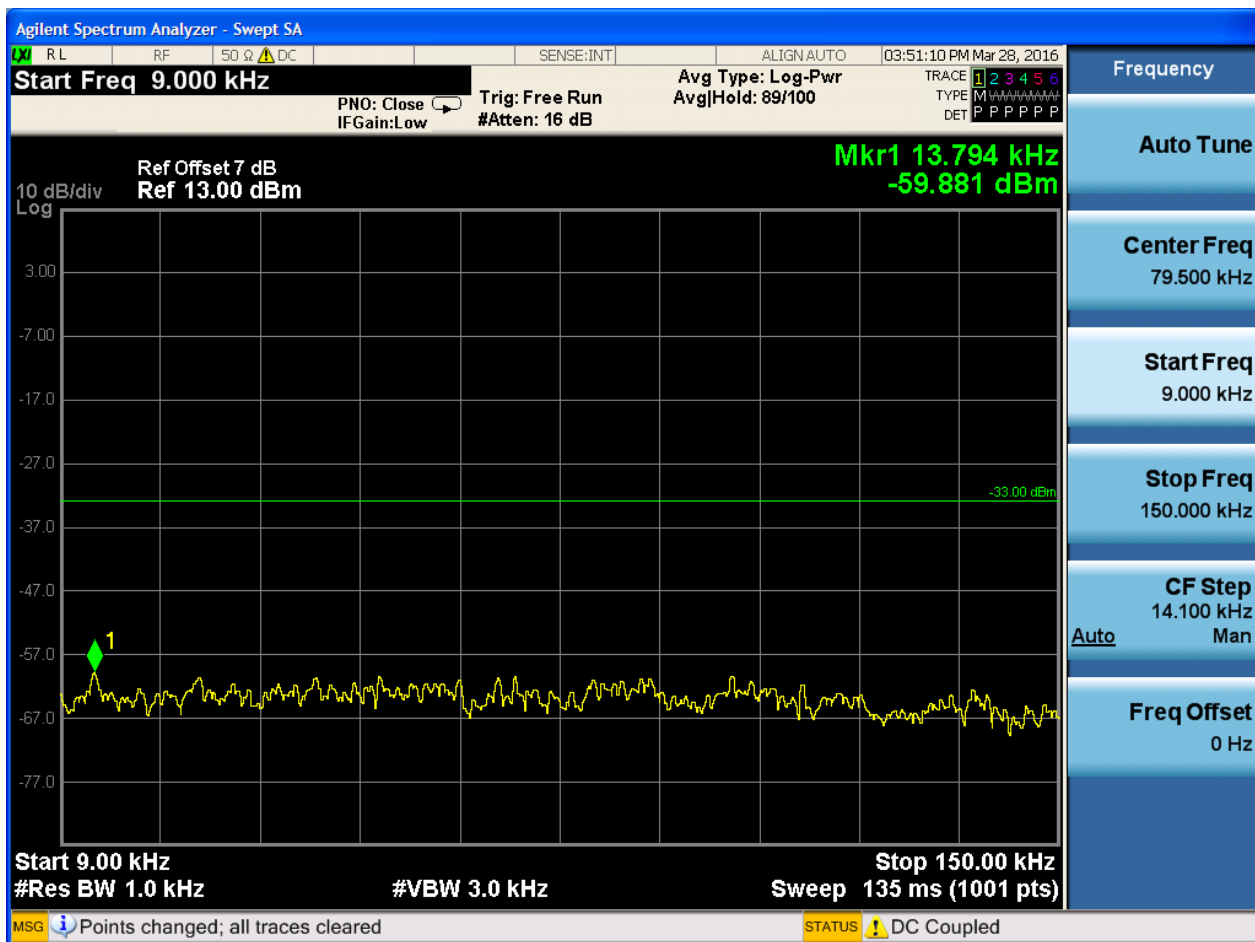


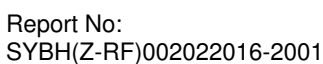


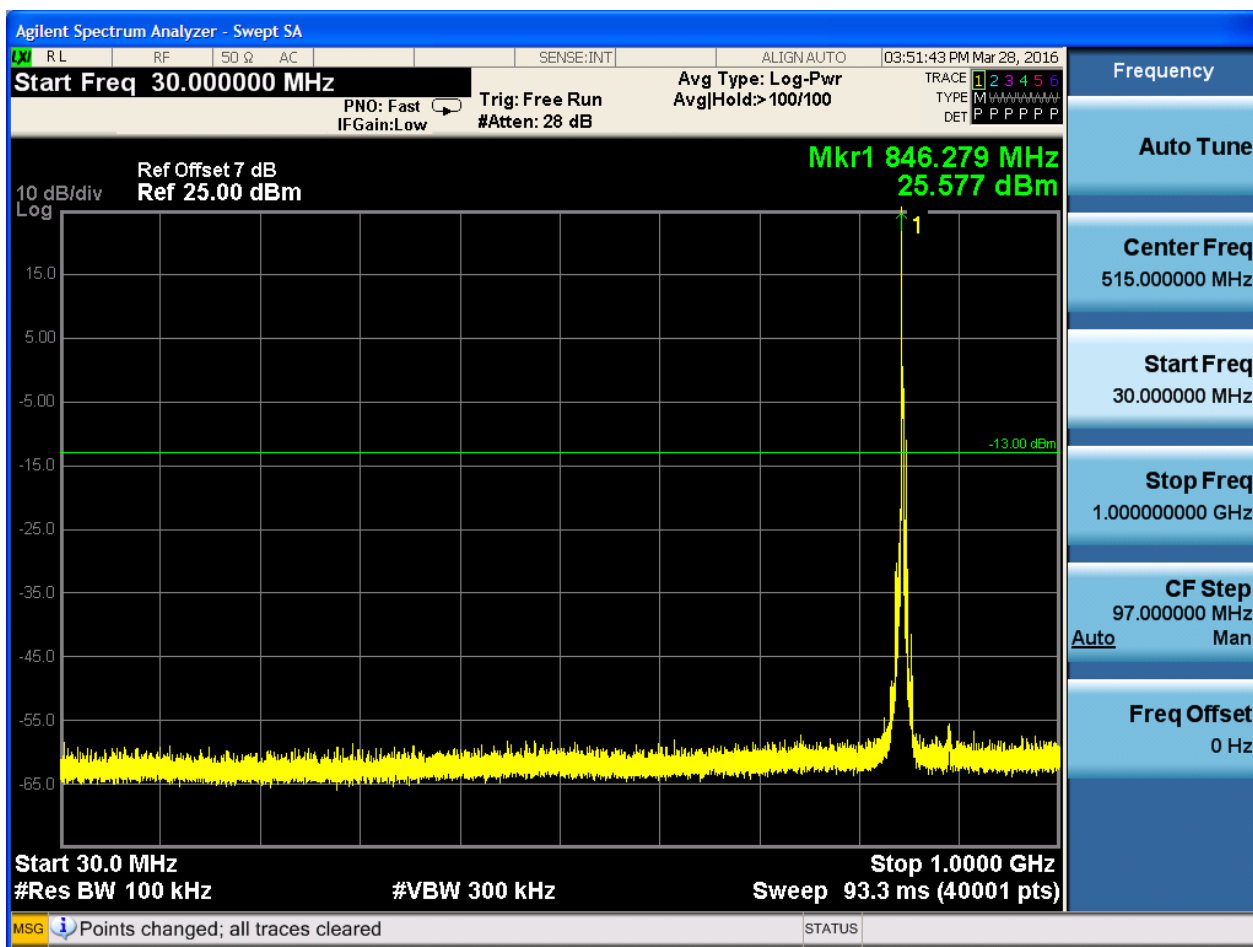


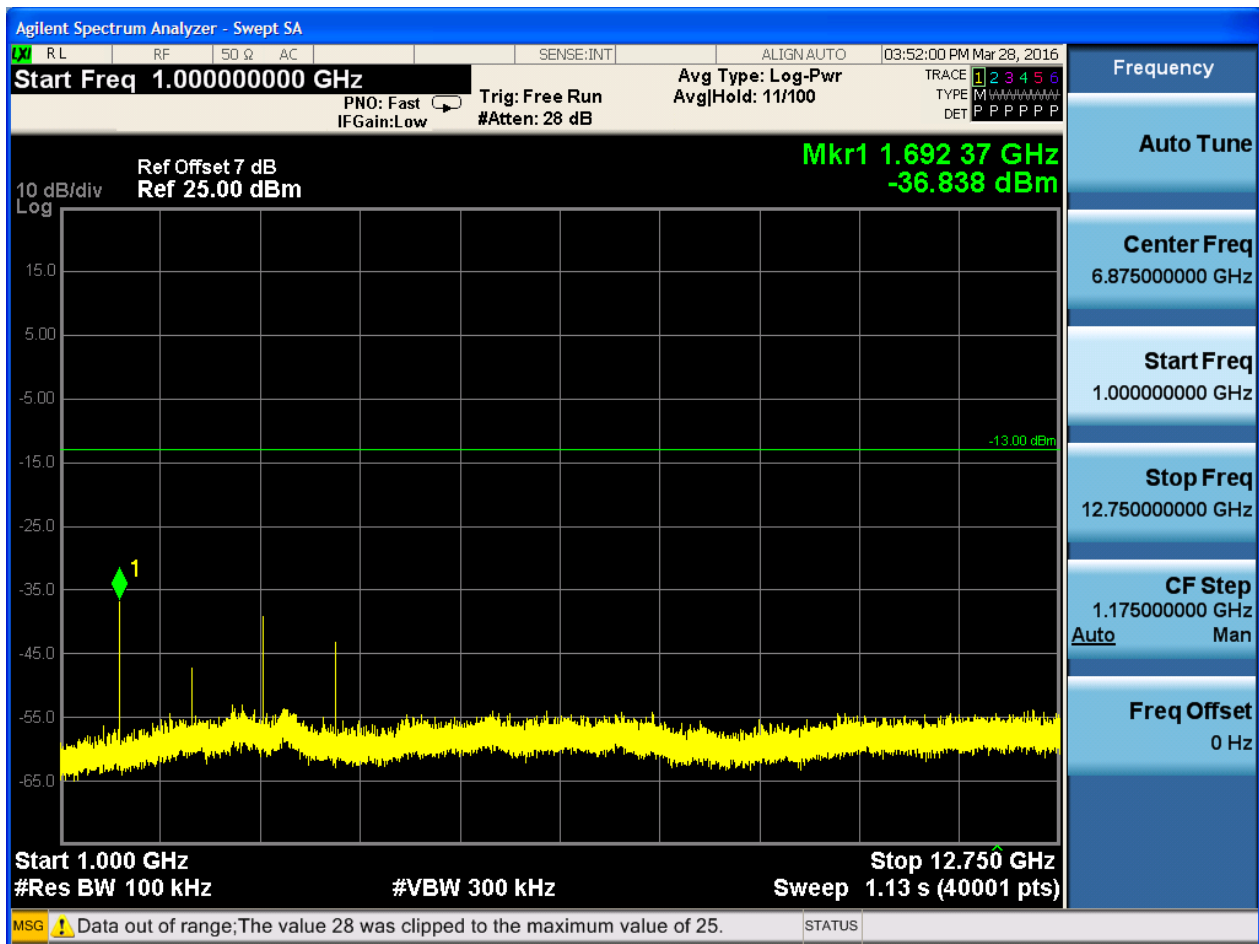
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







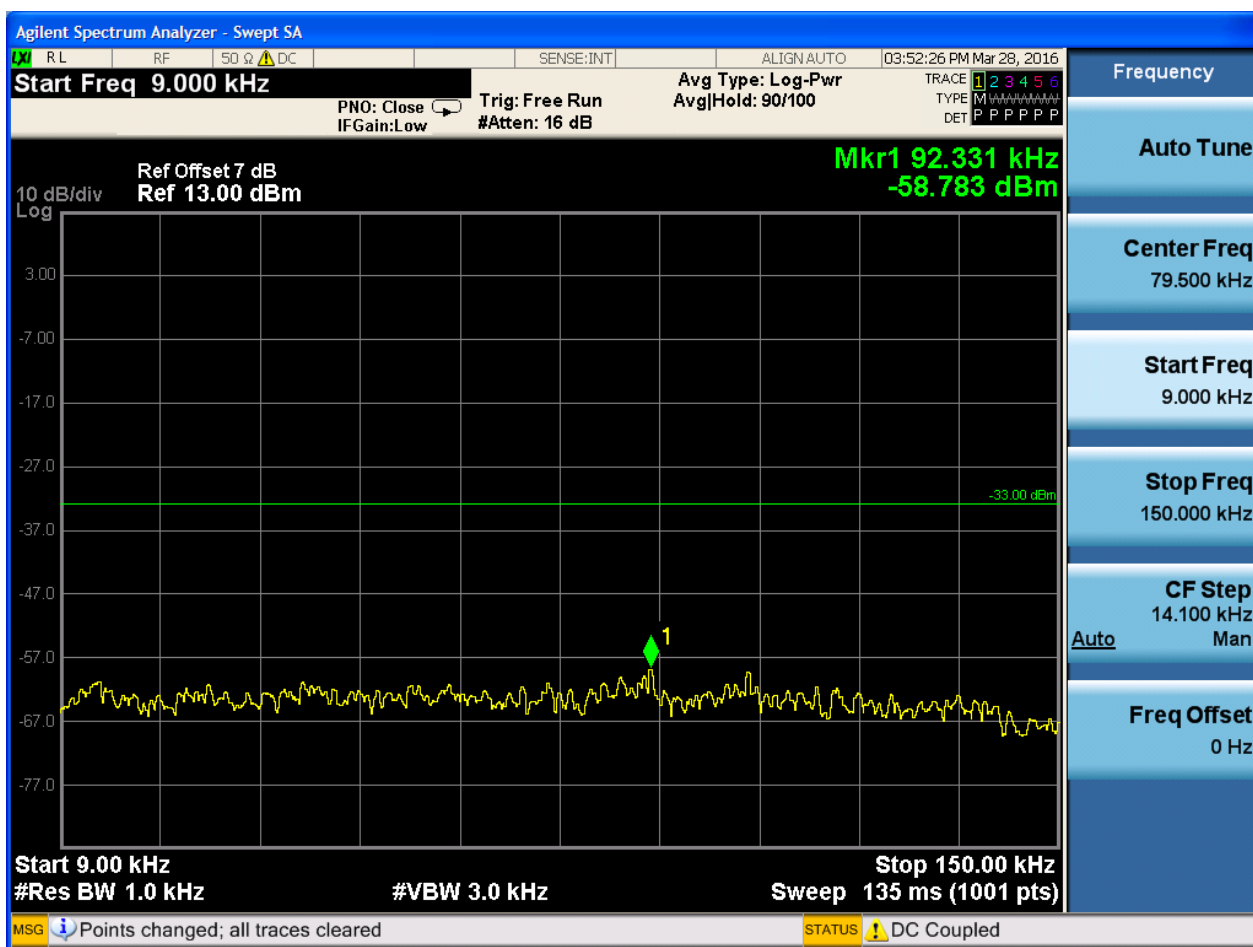


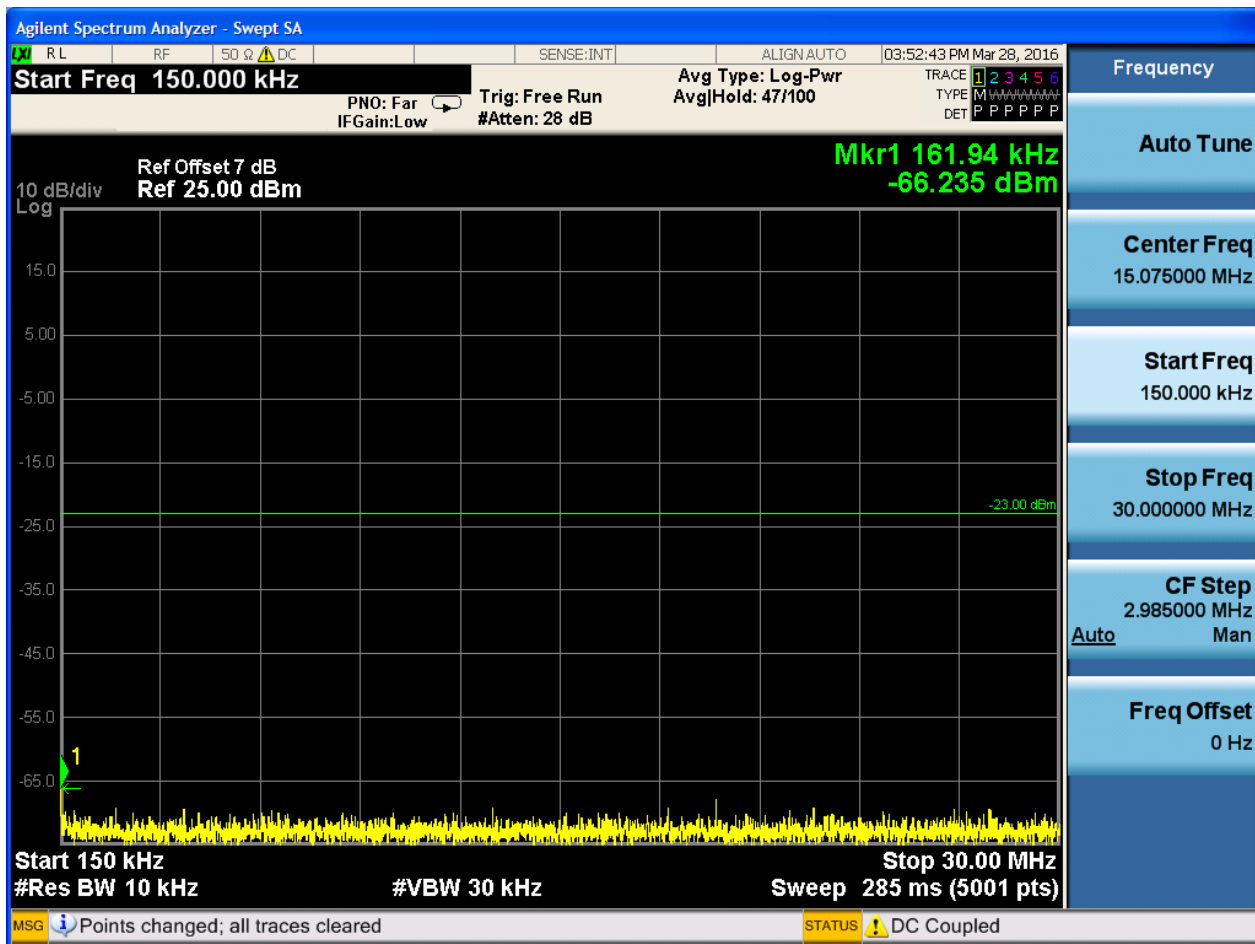


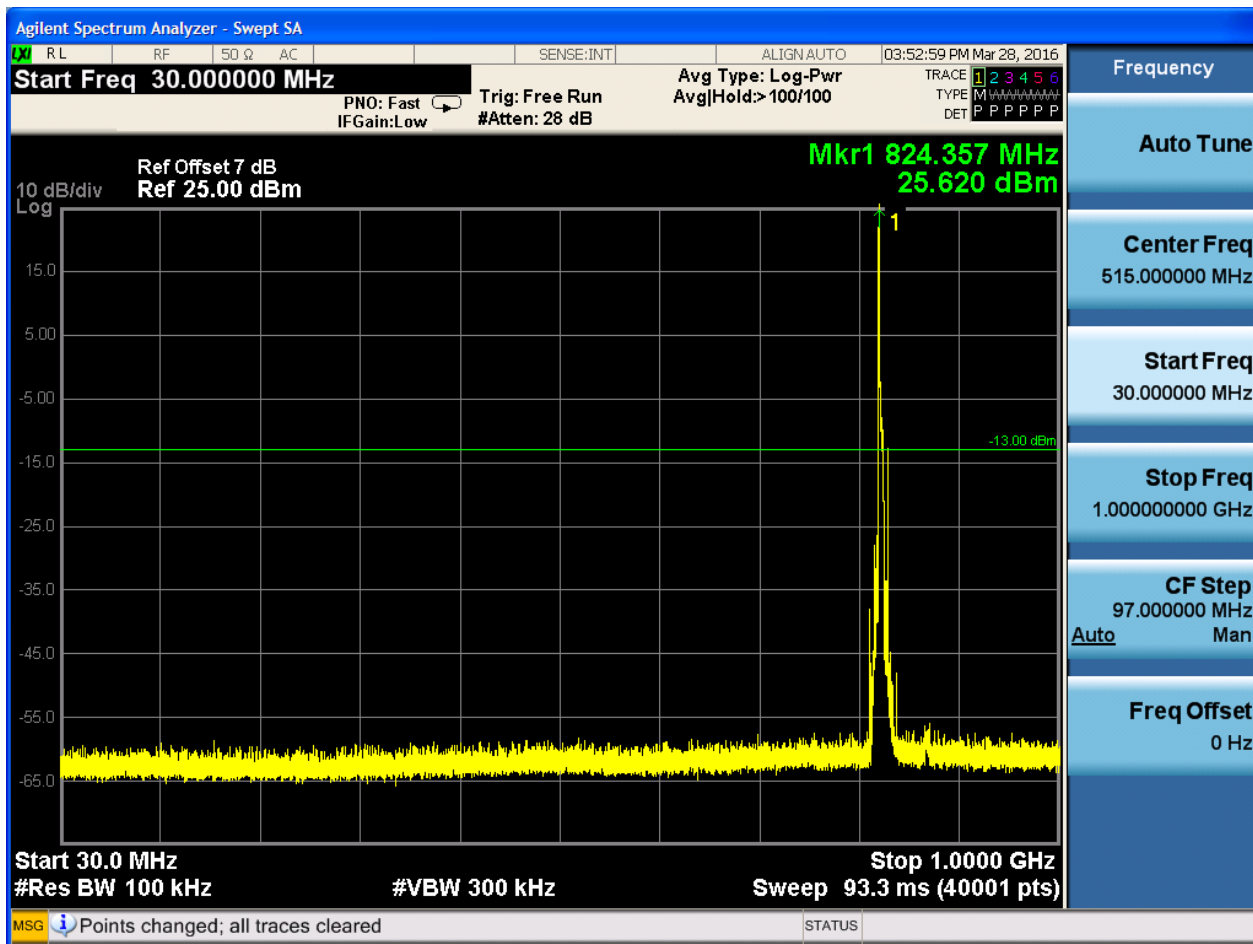
6.1.1.2.3 Test Bandwidth = 5

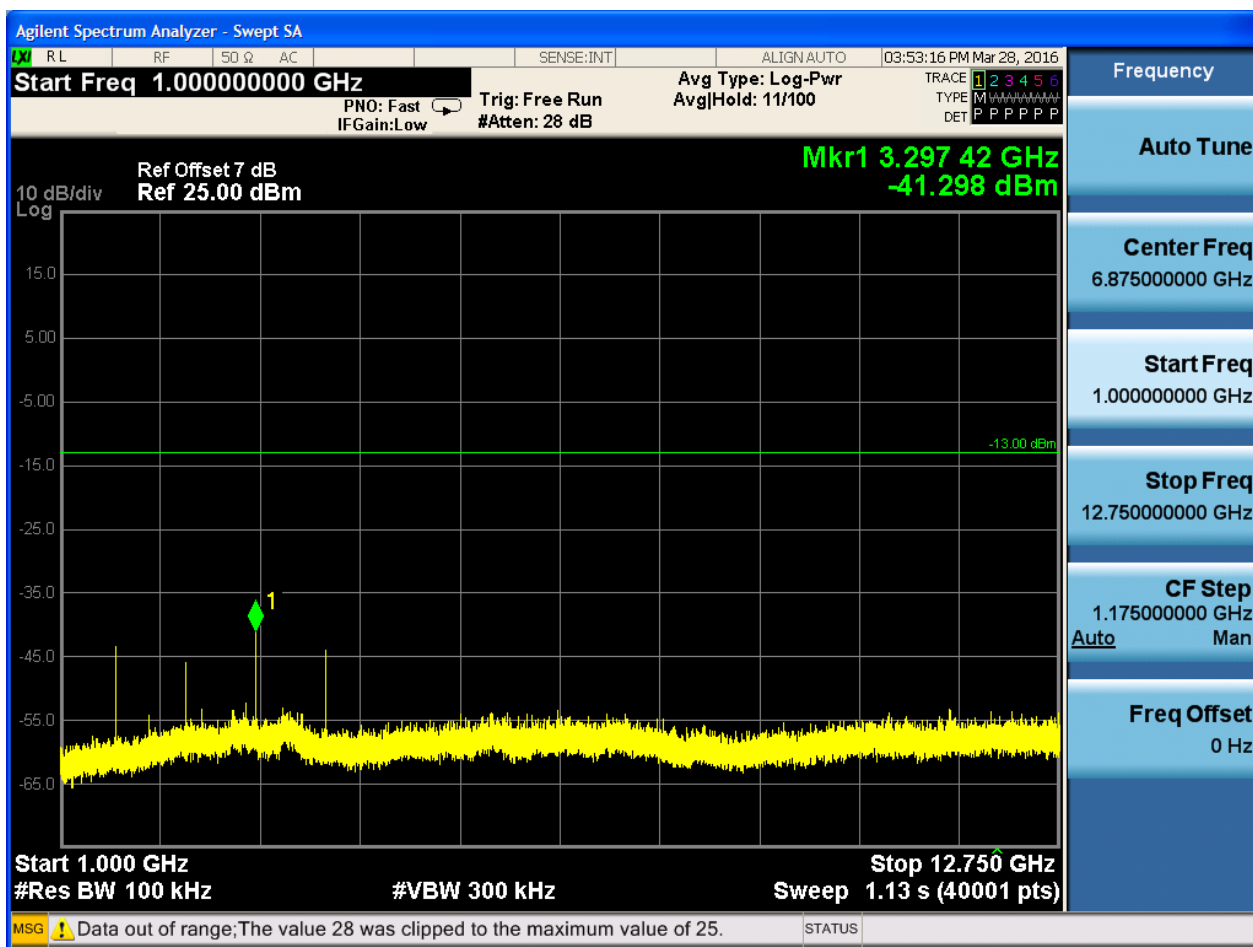
6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





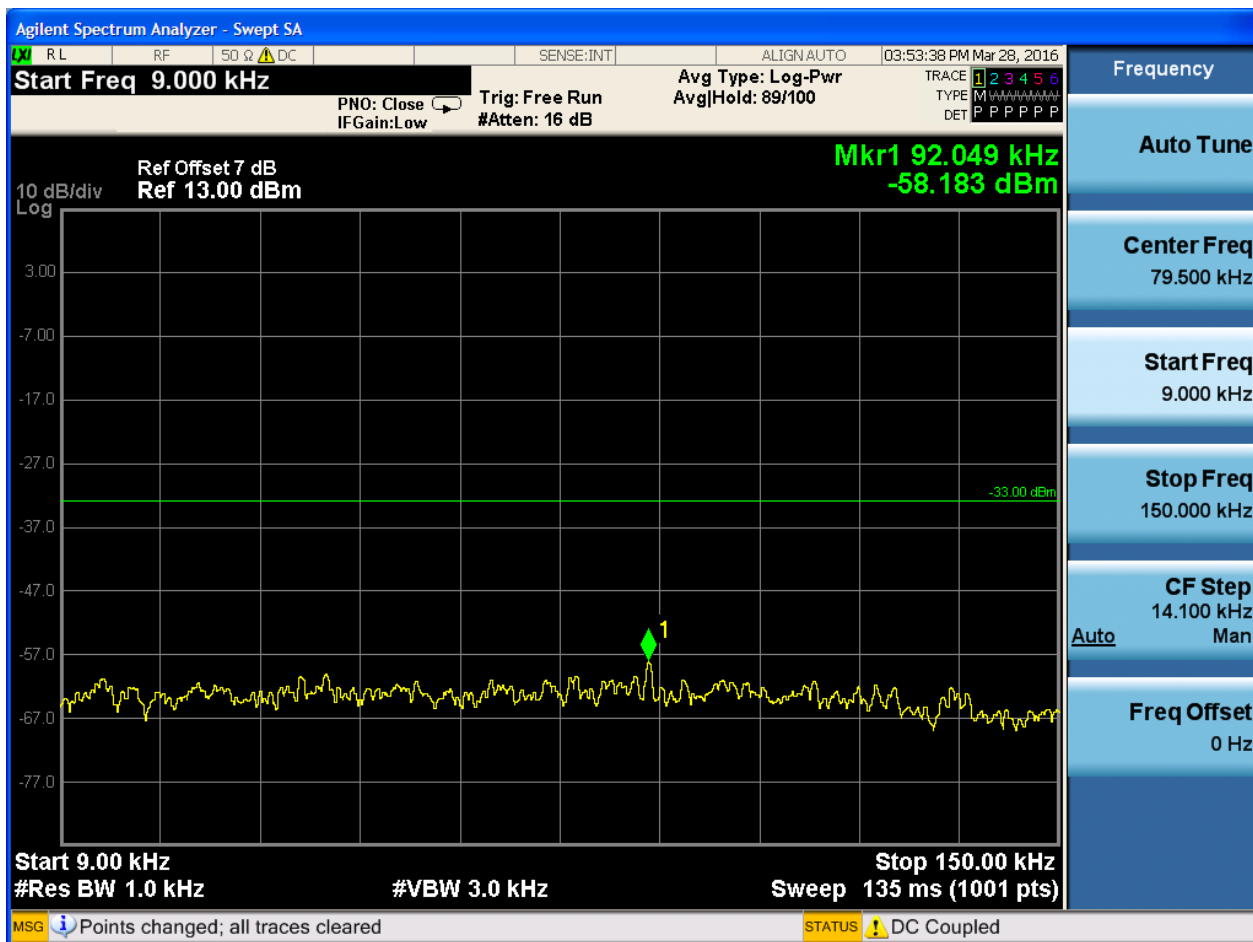


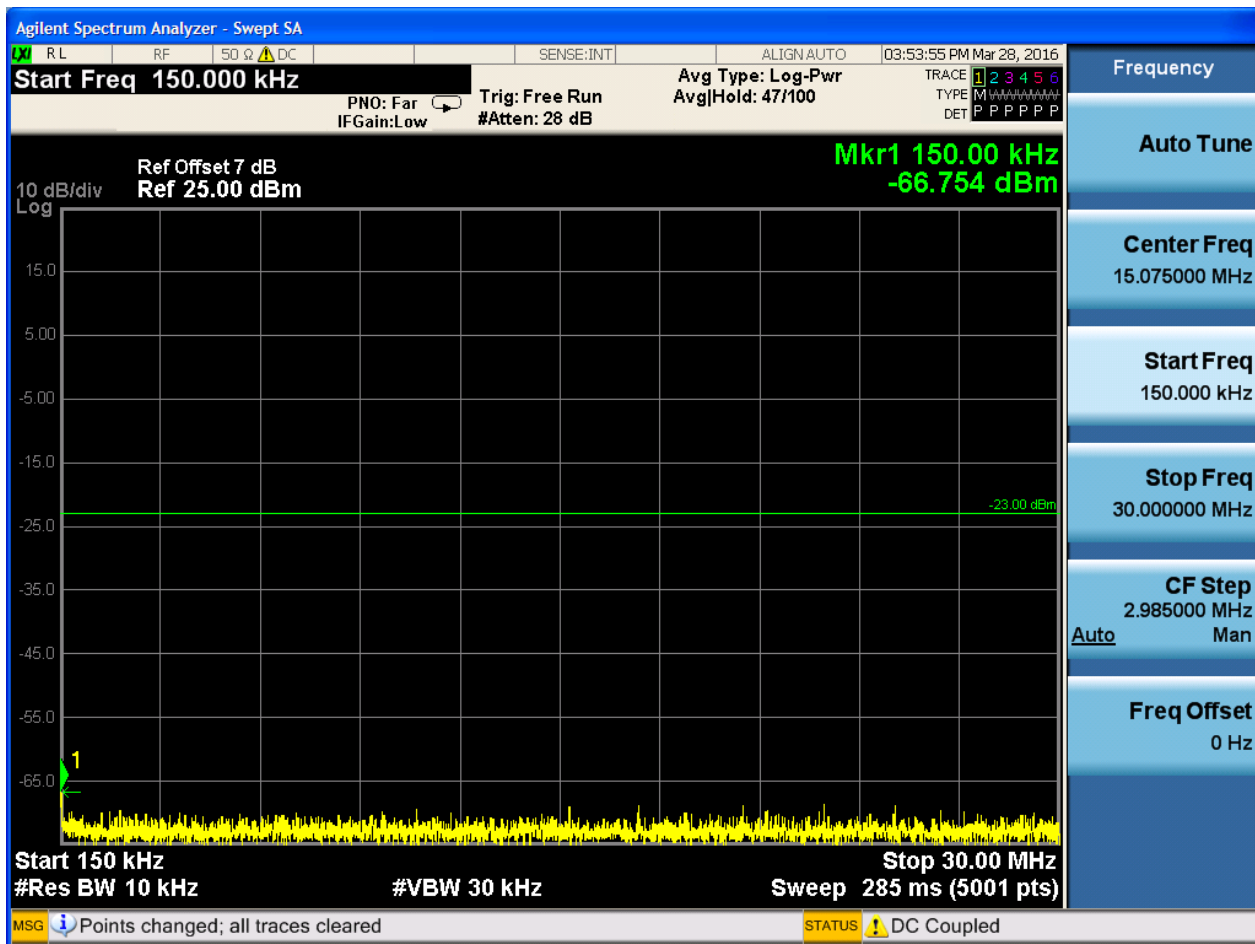


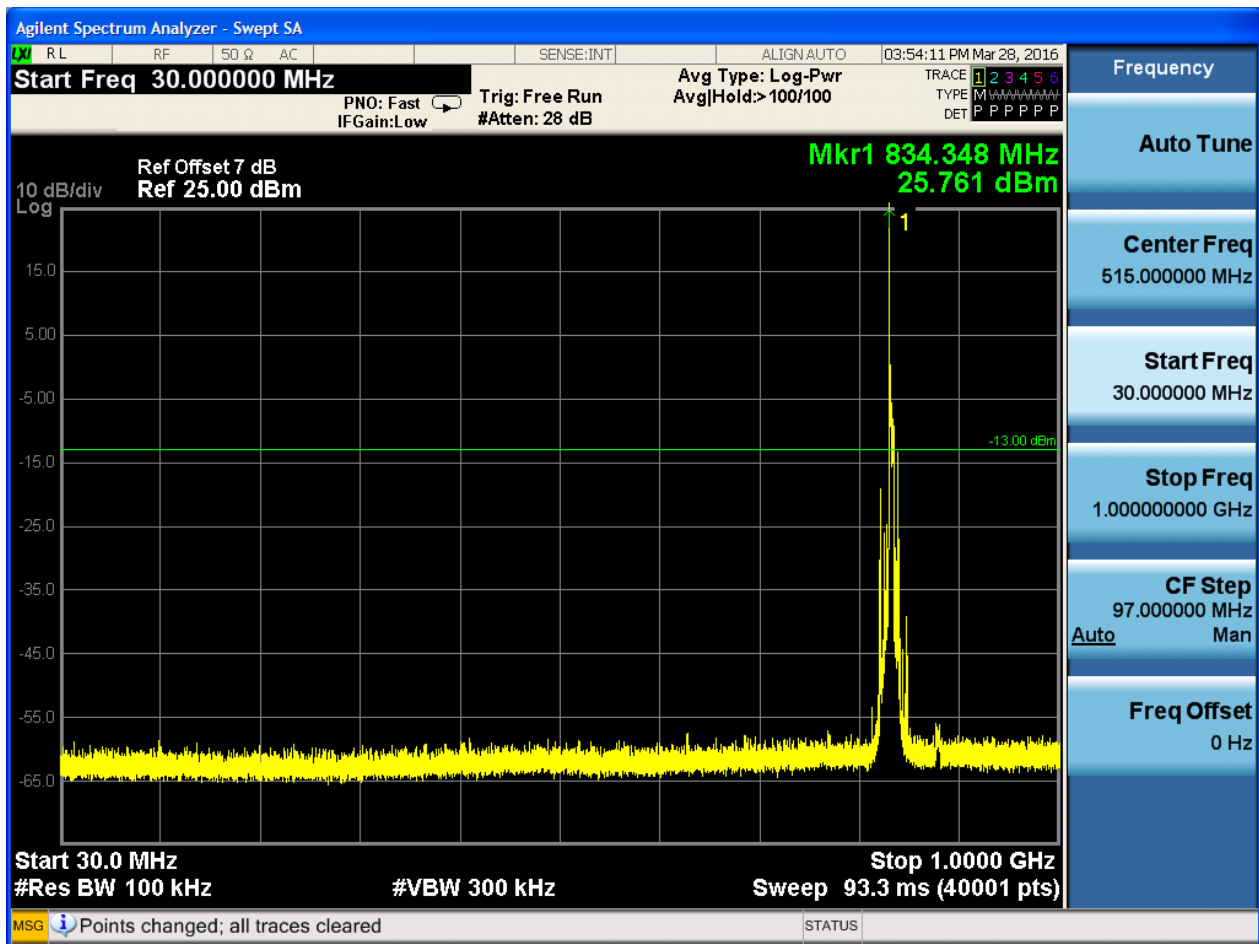


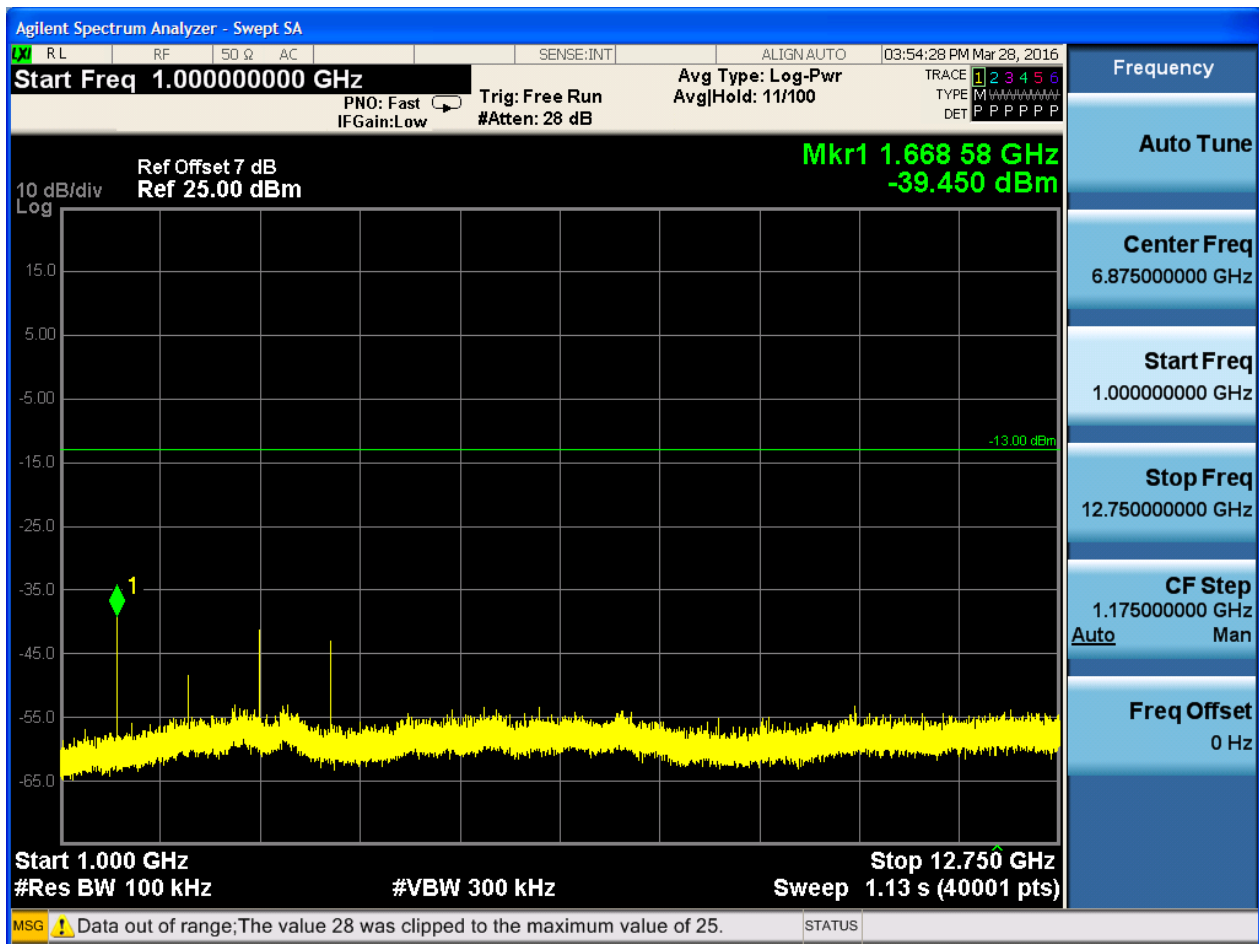
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





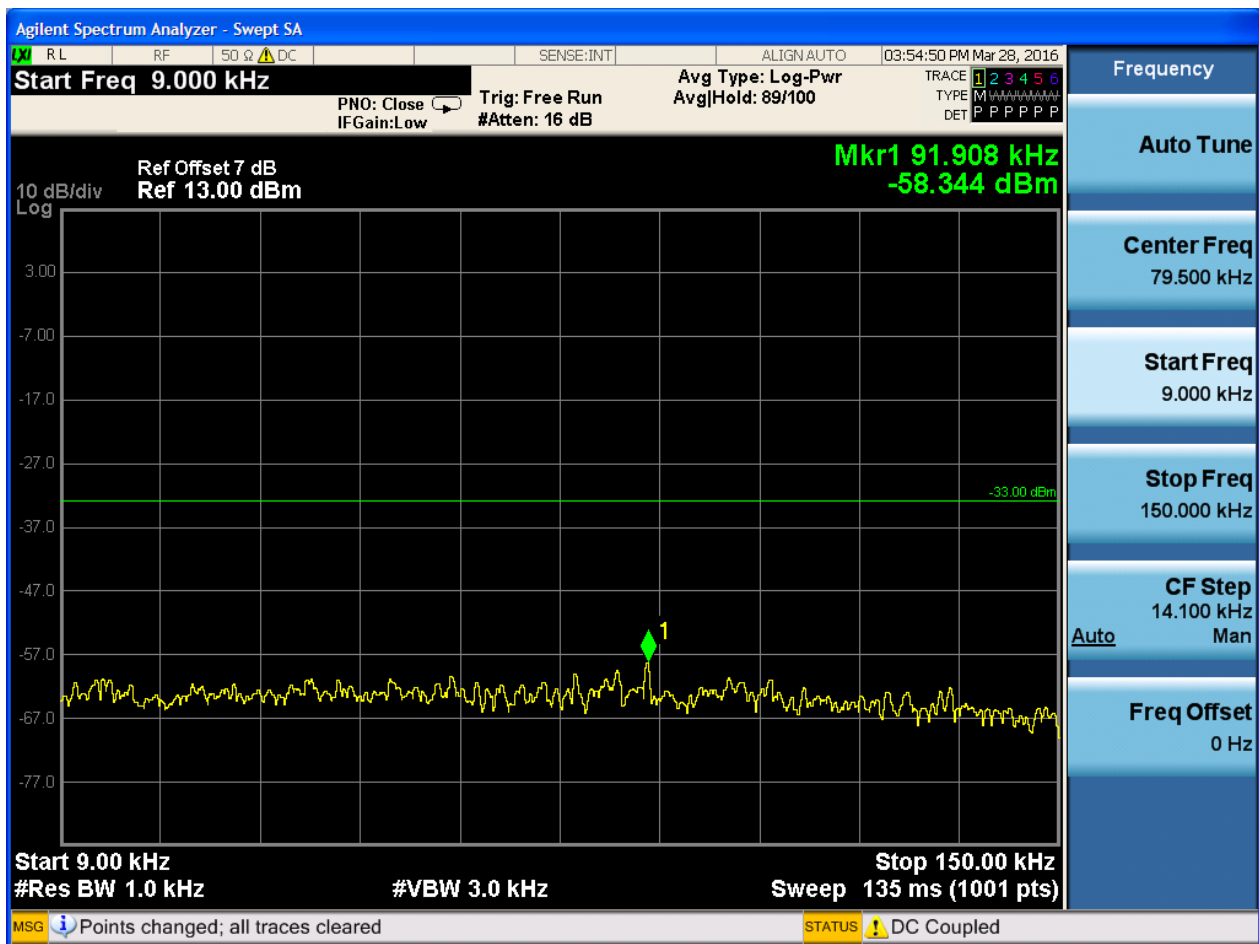


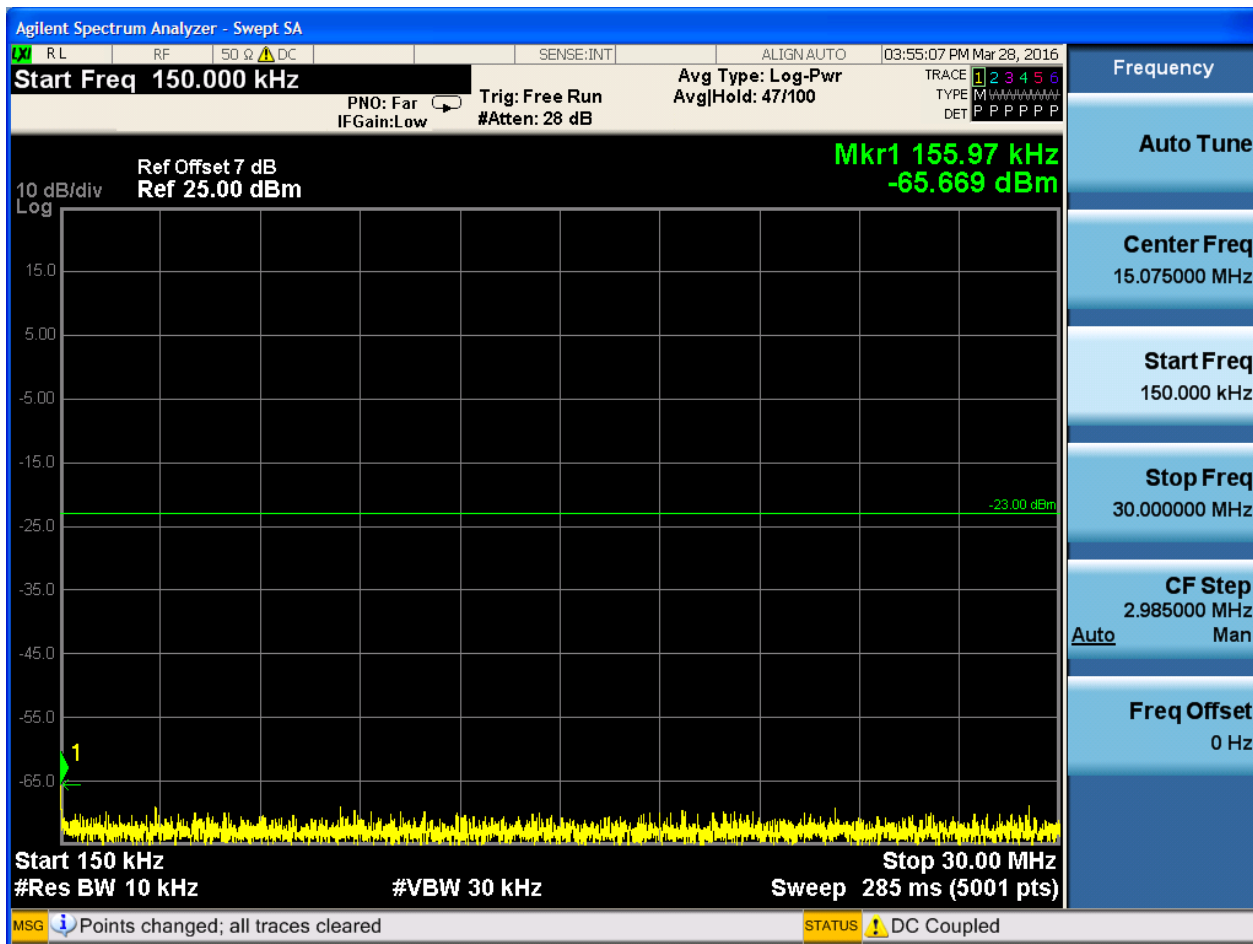


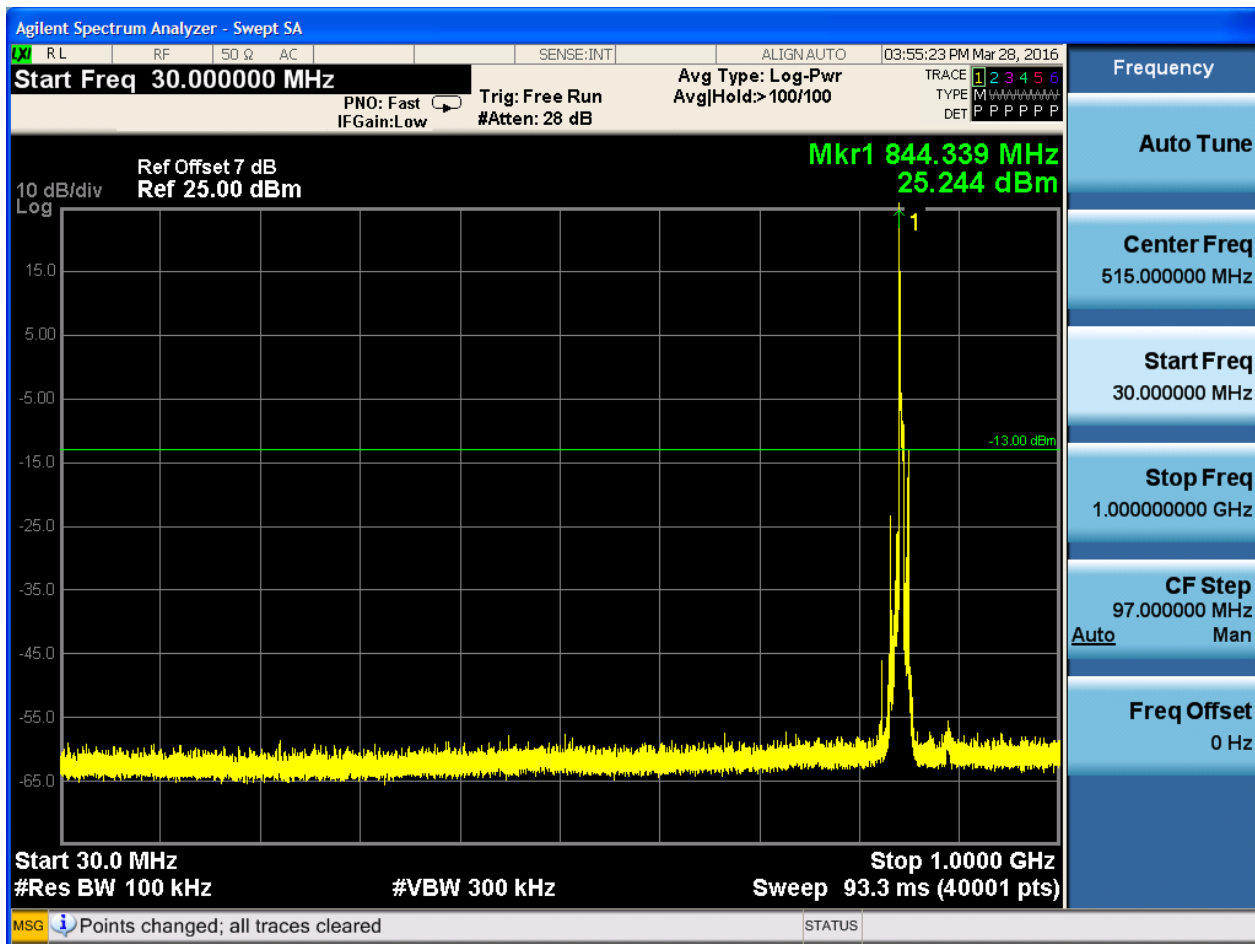


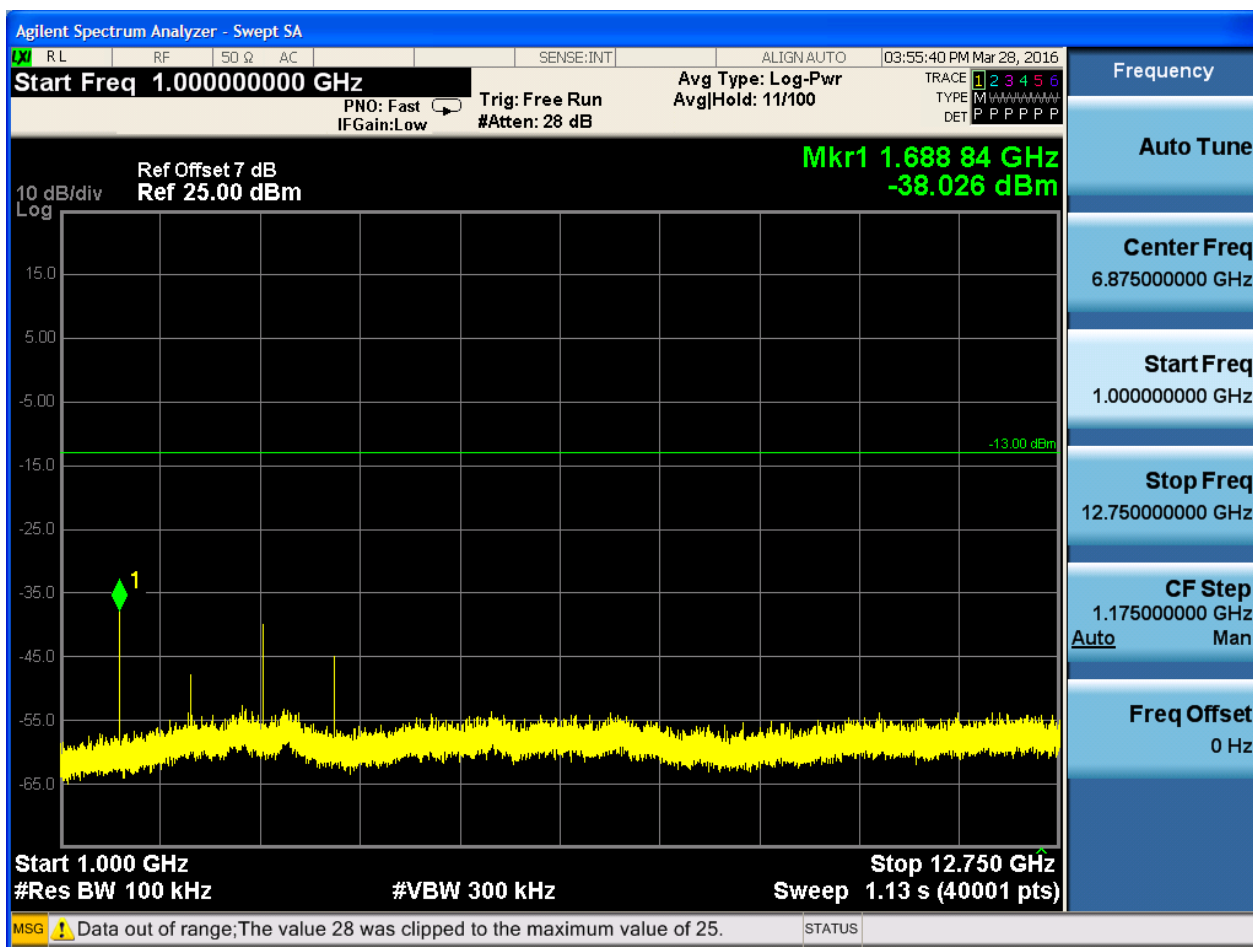
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







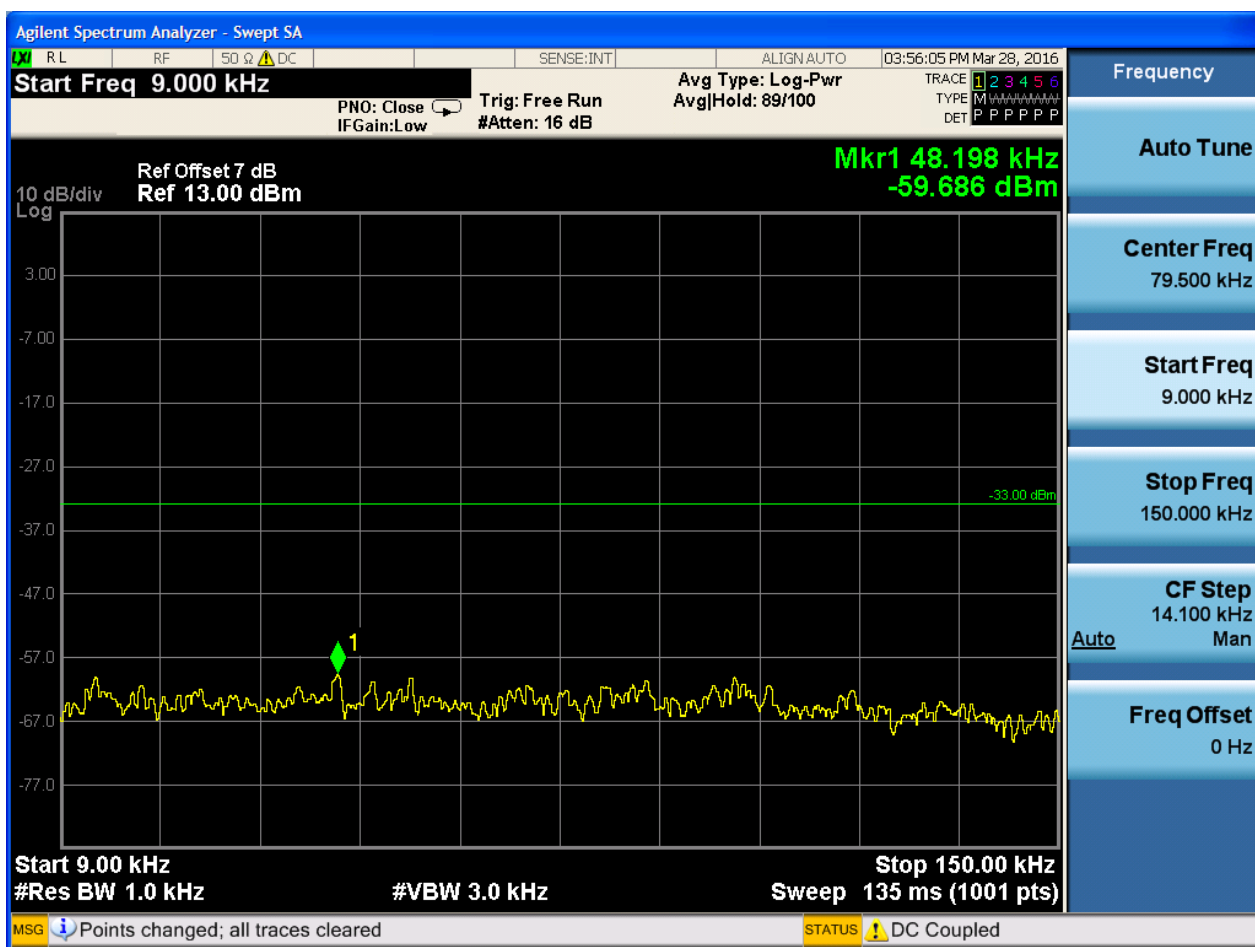


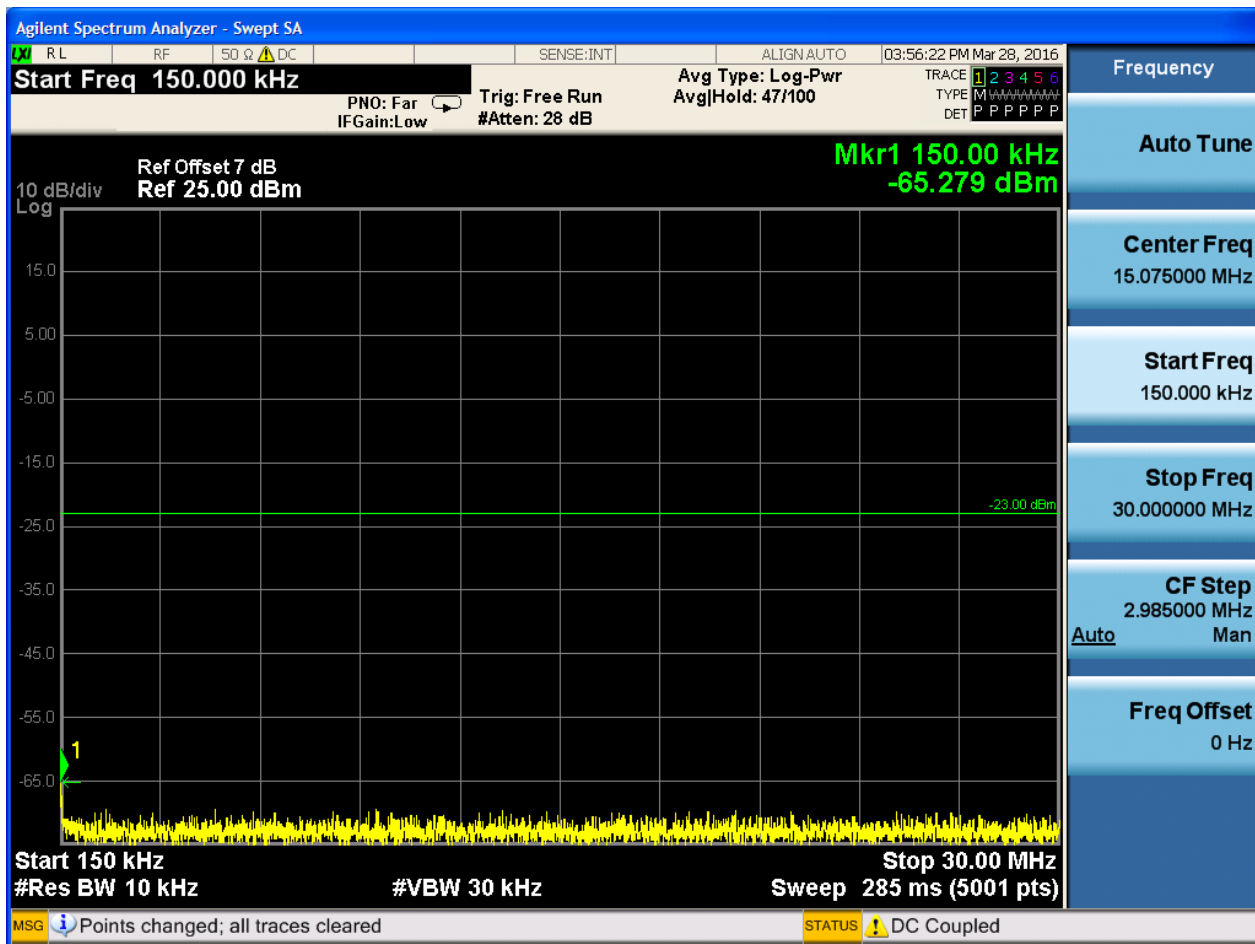


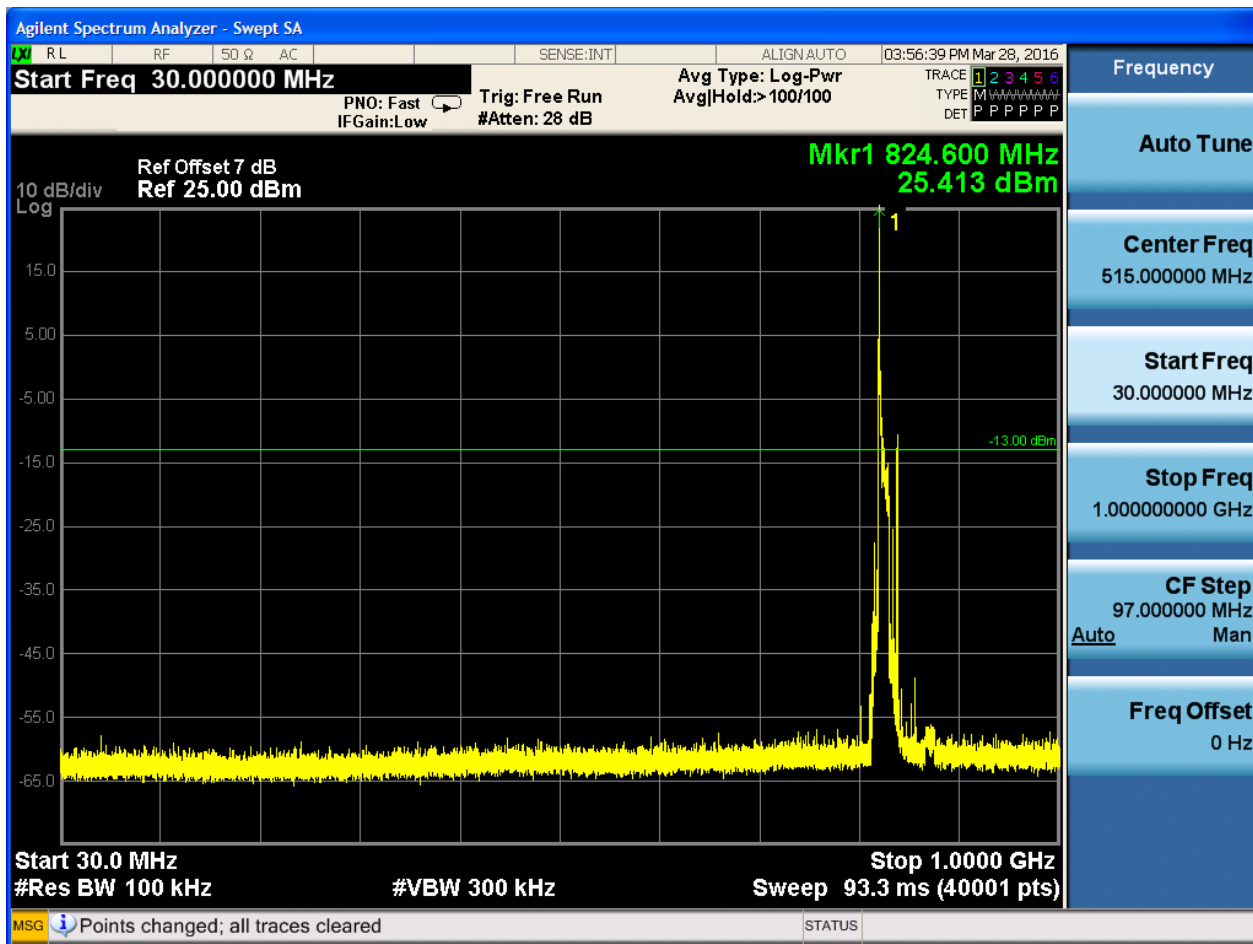
6.1.1.2.4 Test Bandwidth = 10

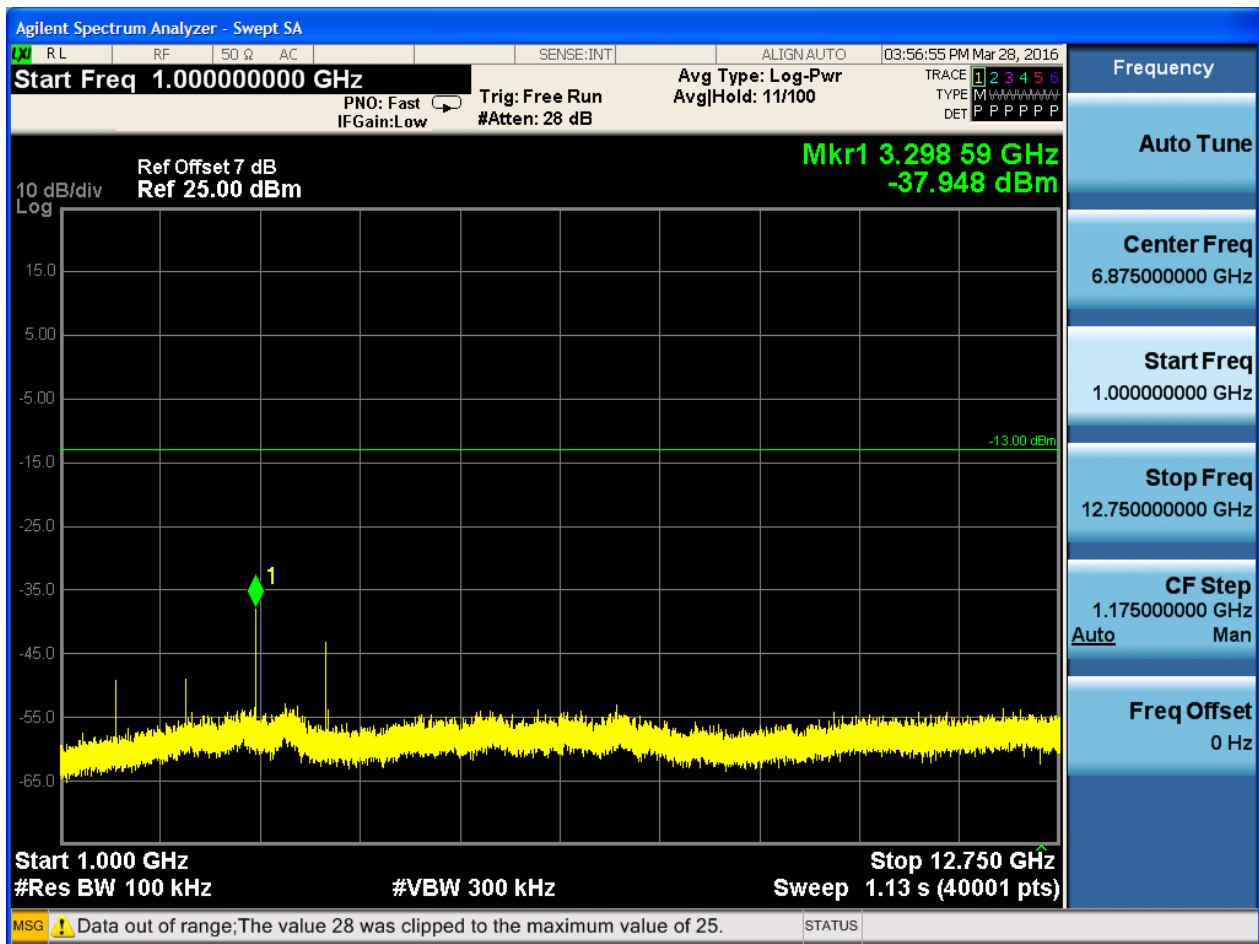
6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





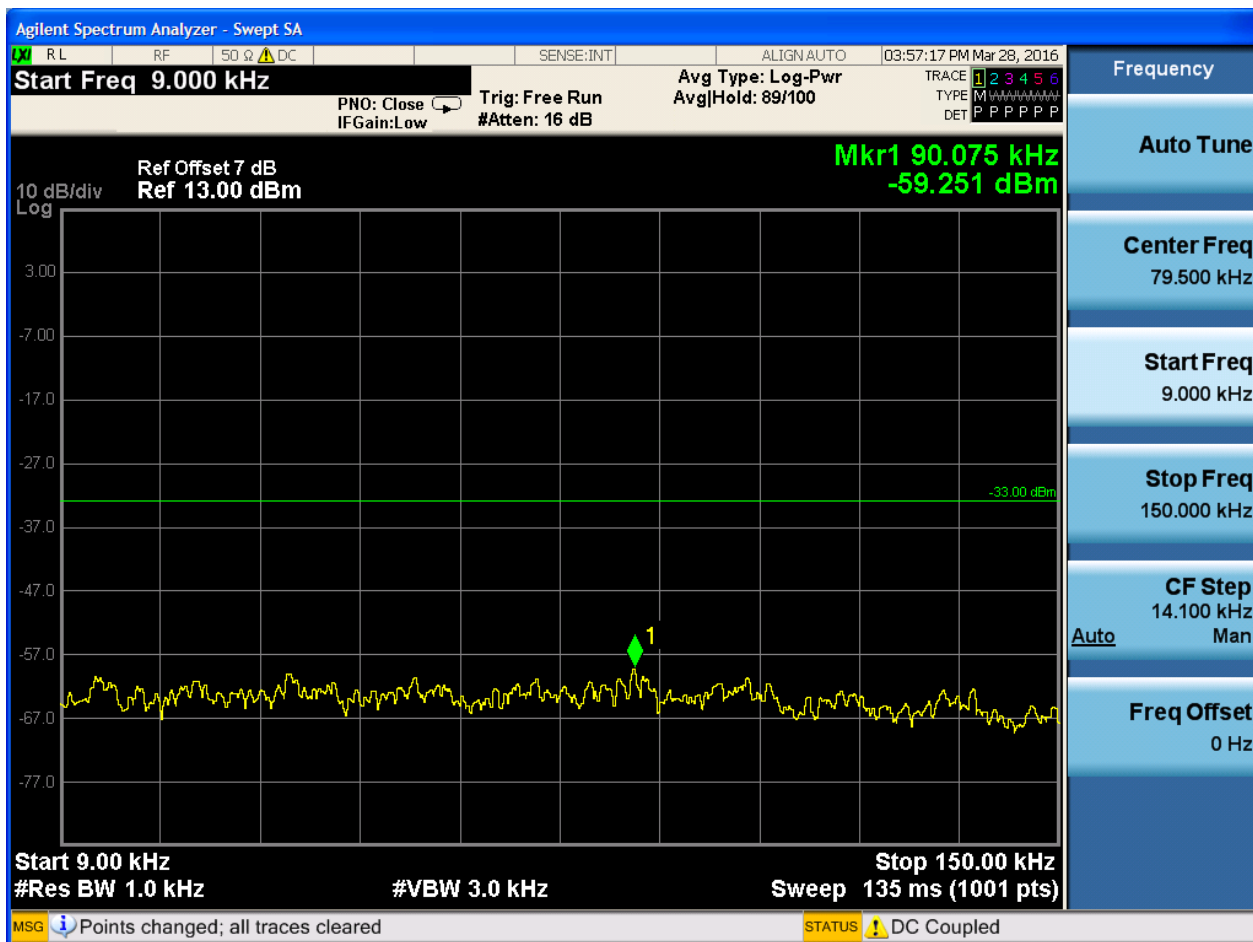




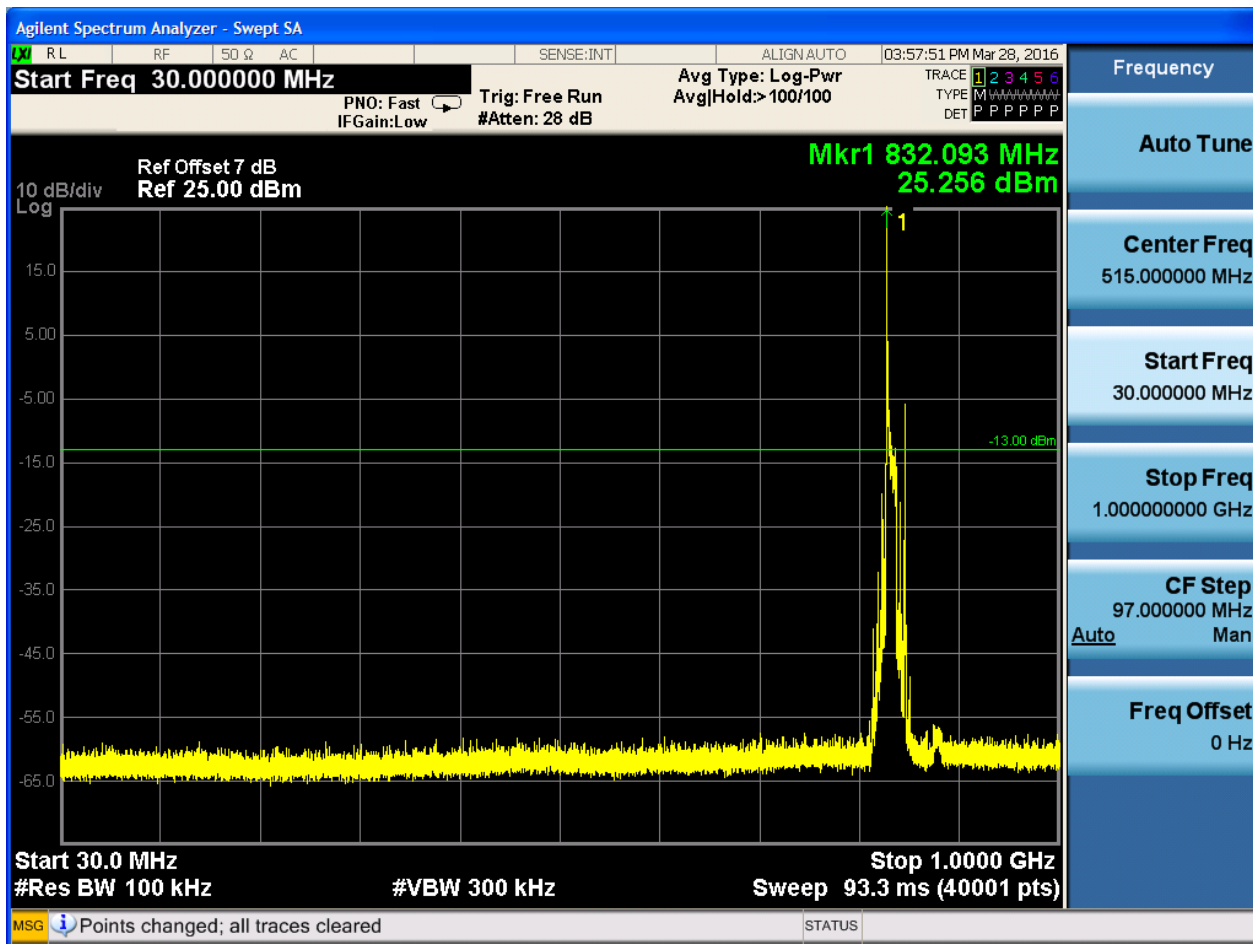


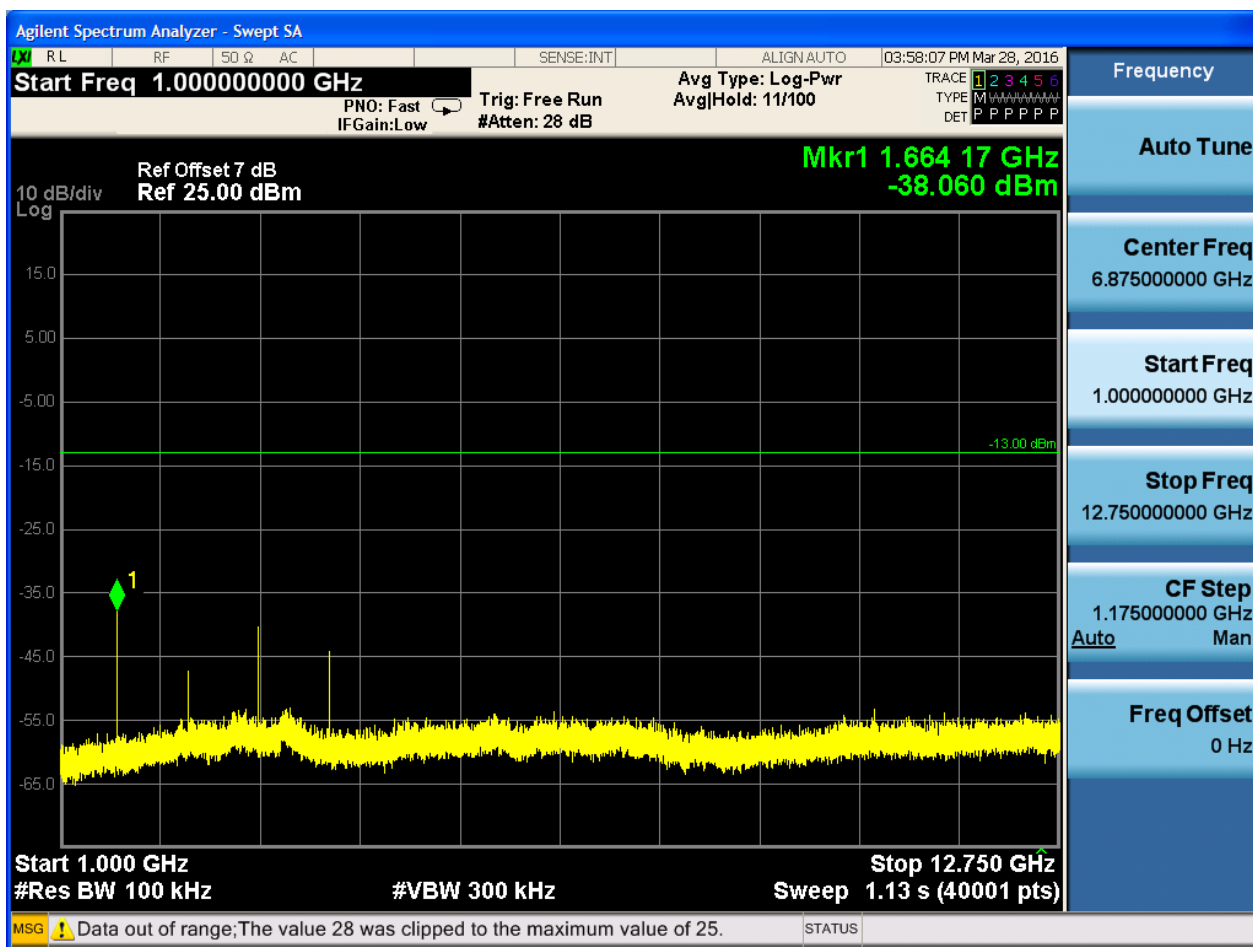
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



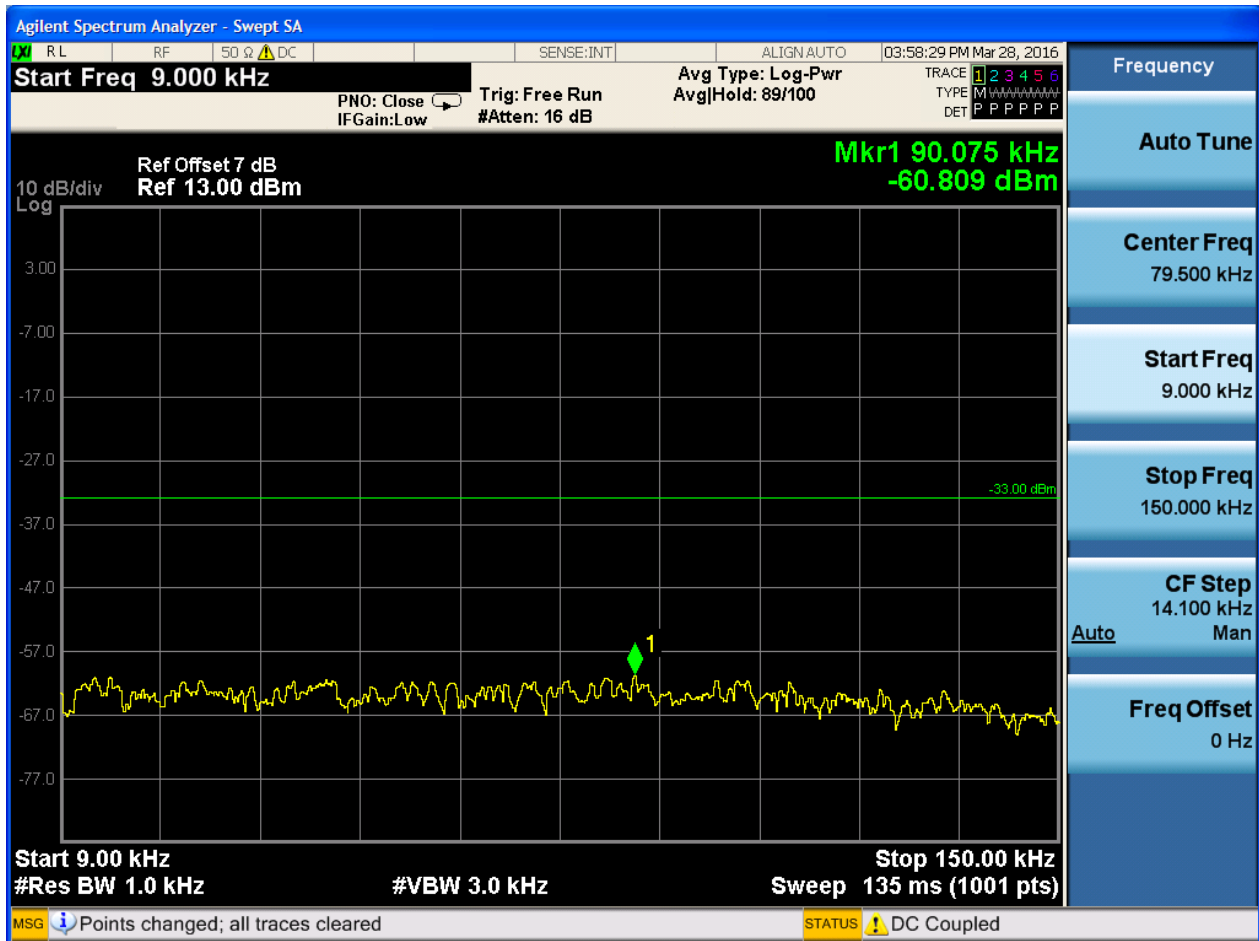


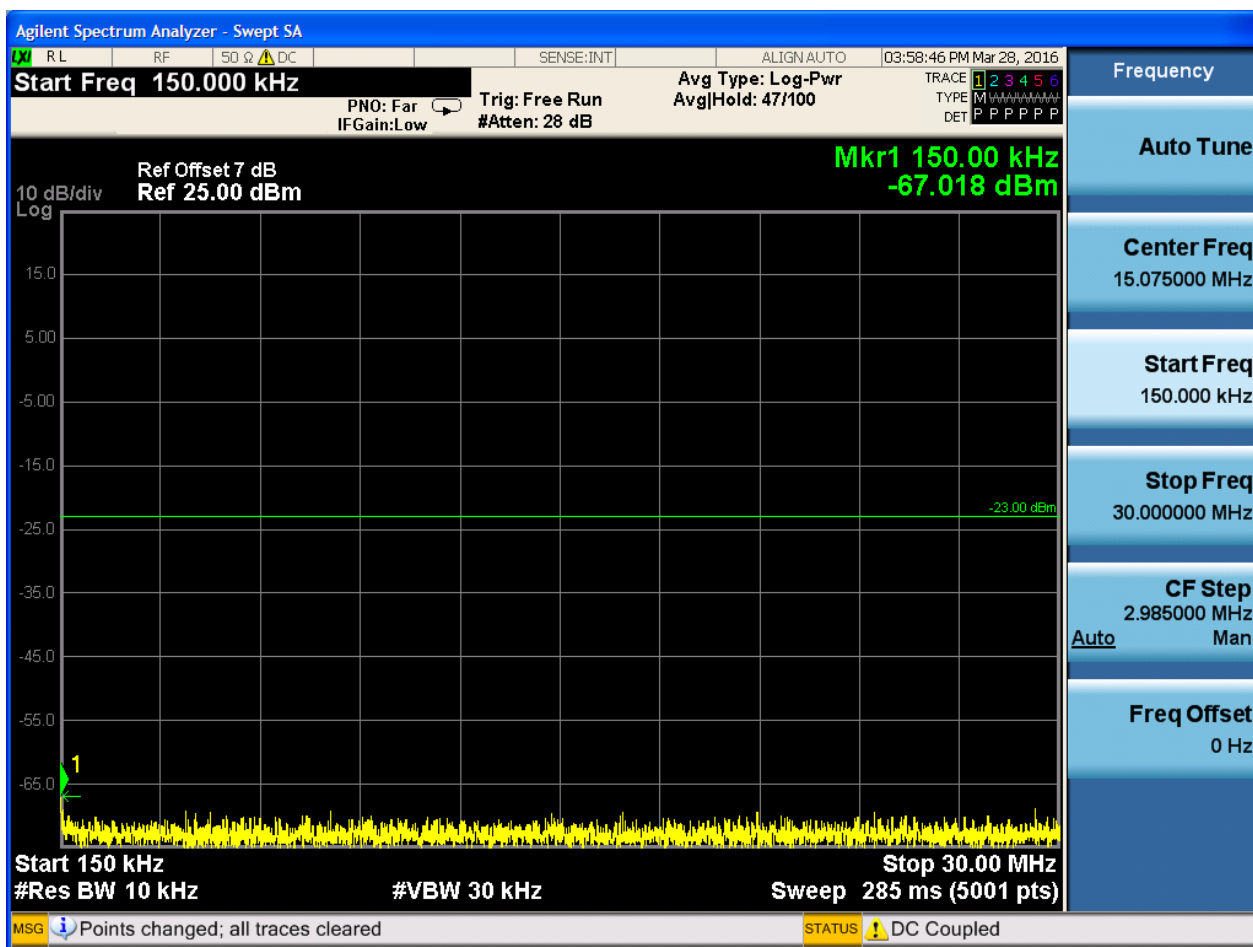


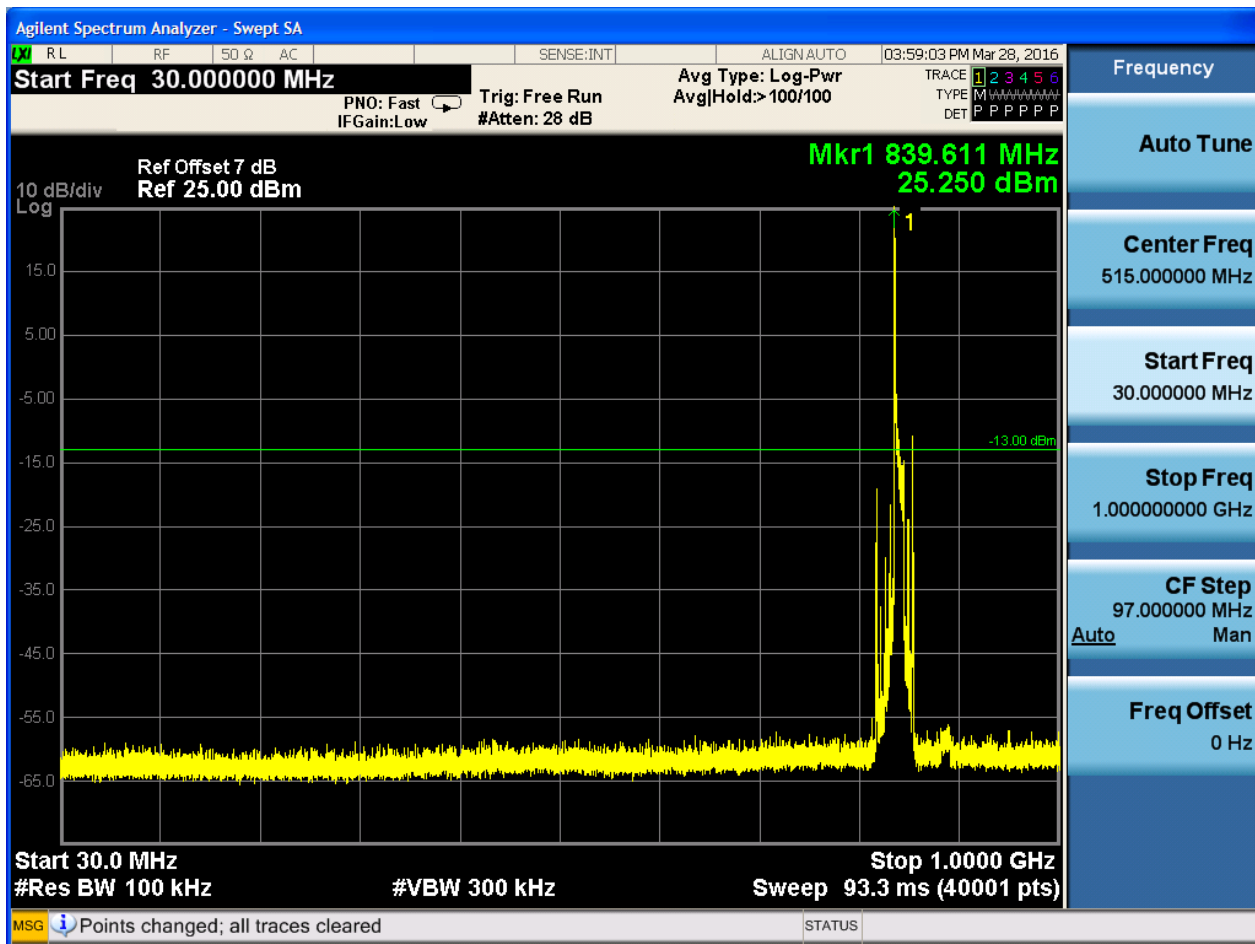


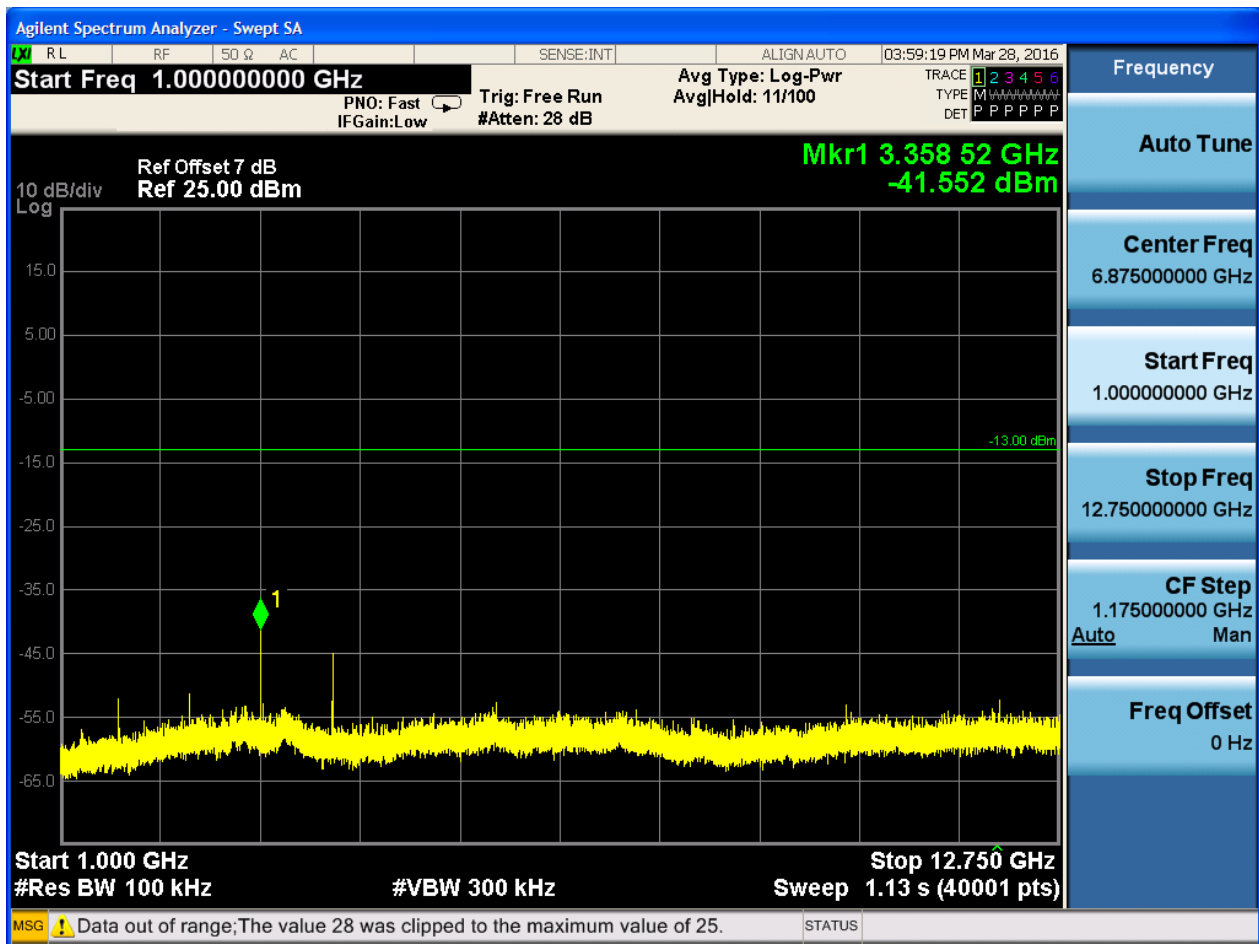


6.1.1.2.4.3.1 Test RB = RB1#0









7Appendix_G: Field Strength of Spurious Radiation

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

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

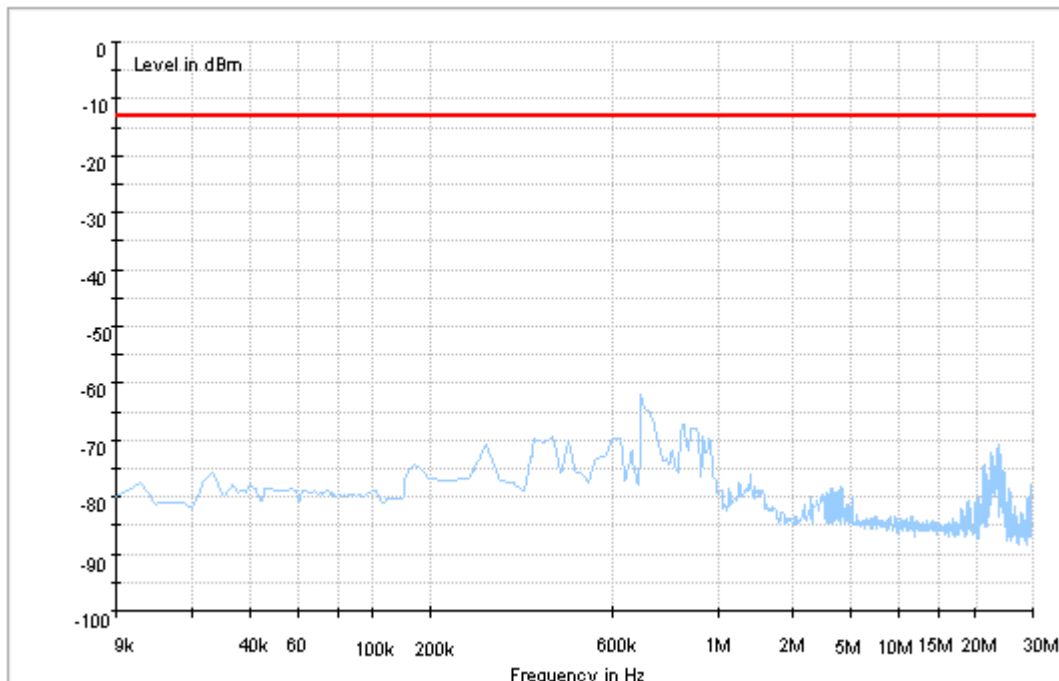
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

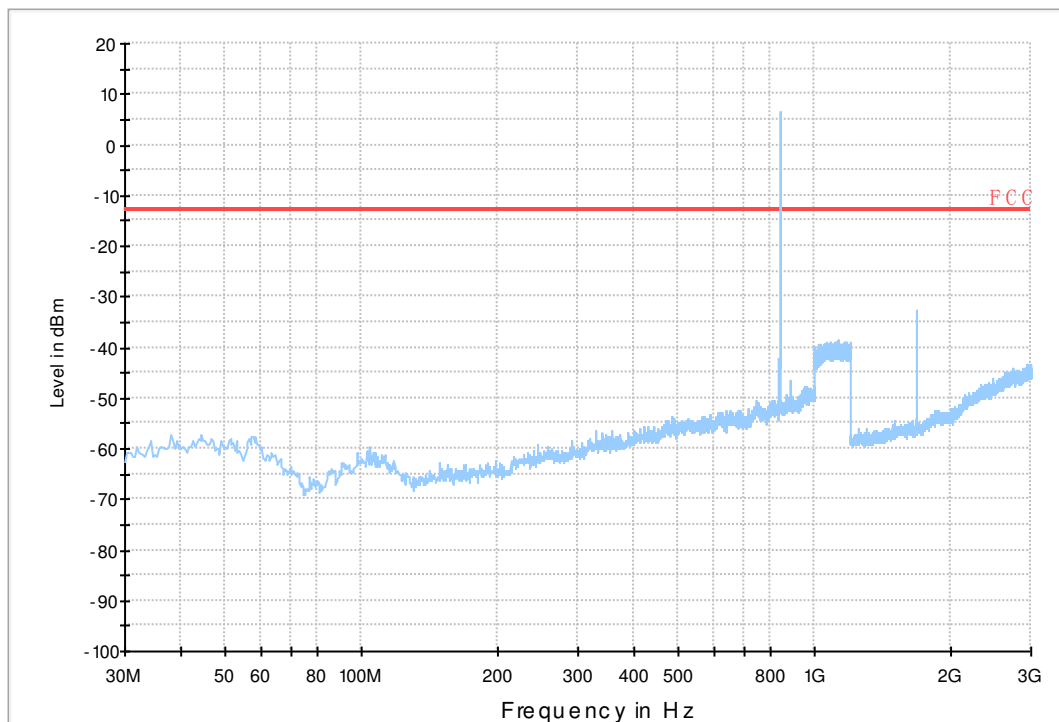
7.1 For LTE

7.1.1 Test Band = BAND5

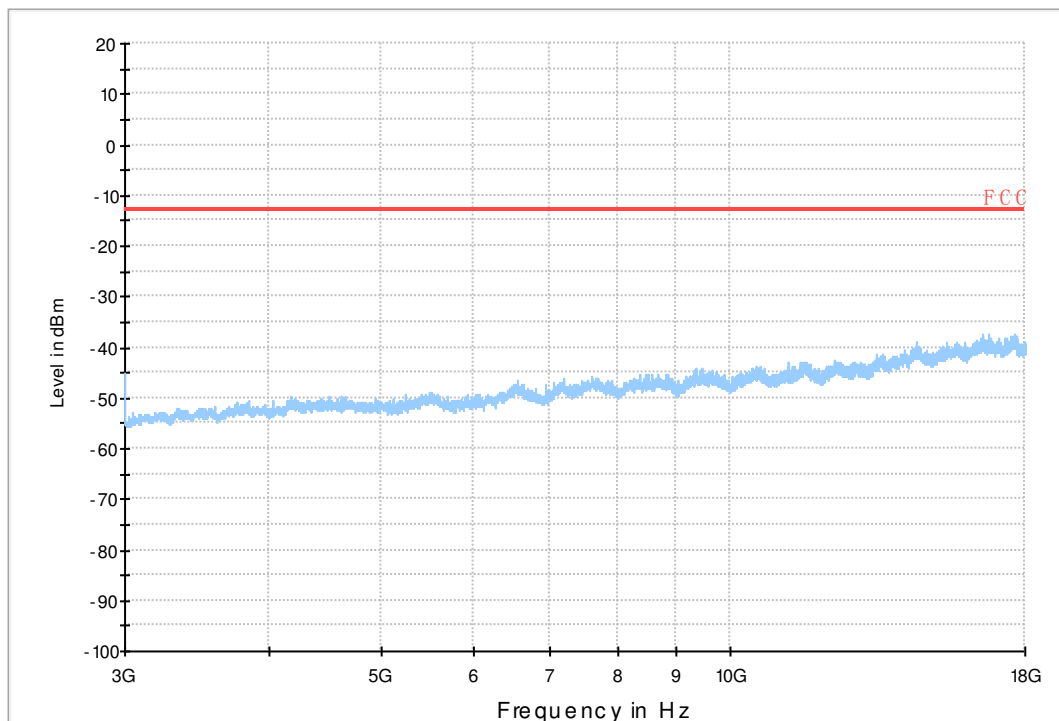
7.1.1.1 Test Bandwidth = 1.4



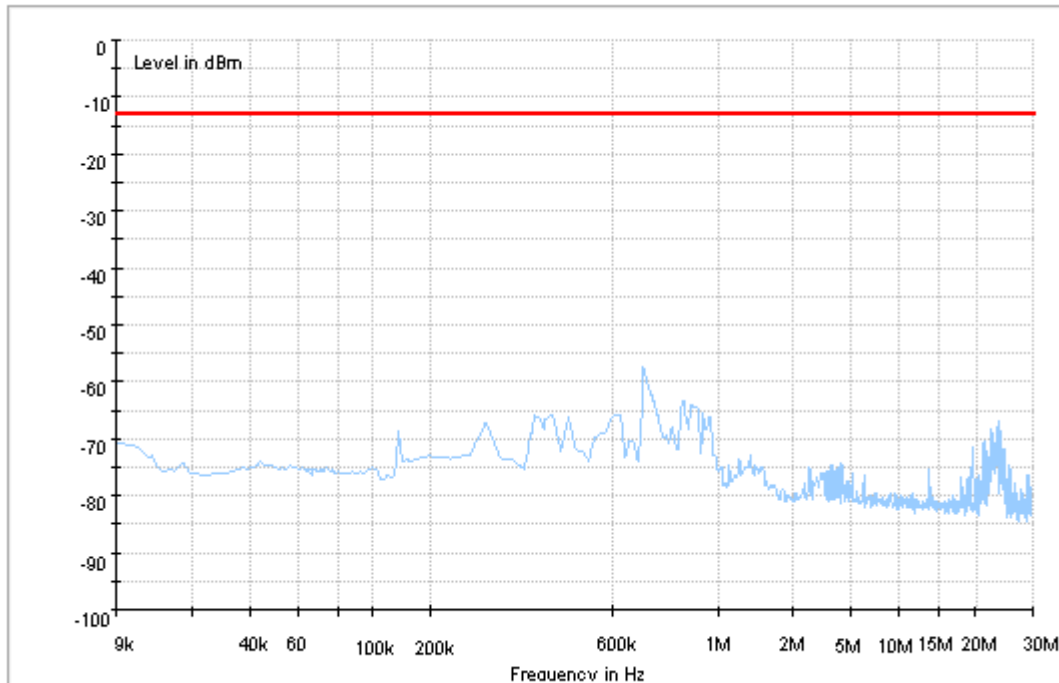
Copy of RSE-TX-DIRECTOR BELOW 1G_L



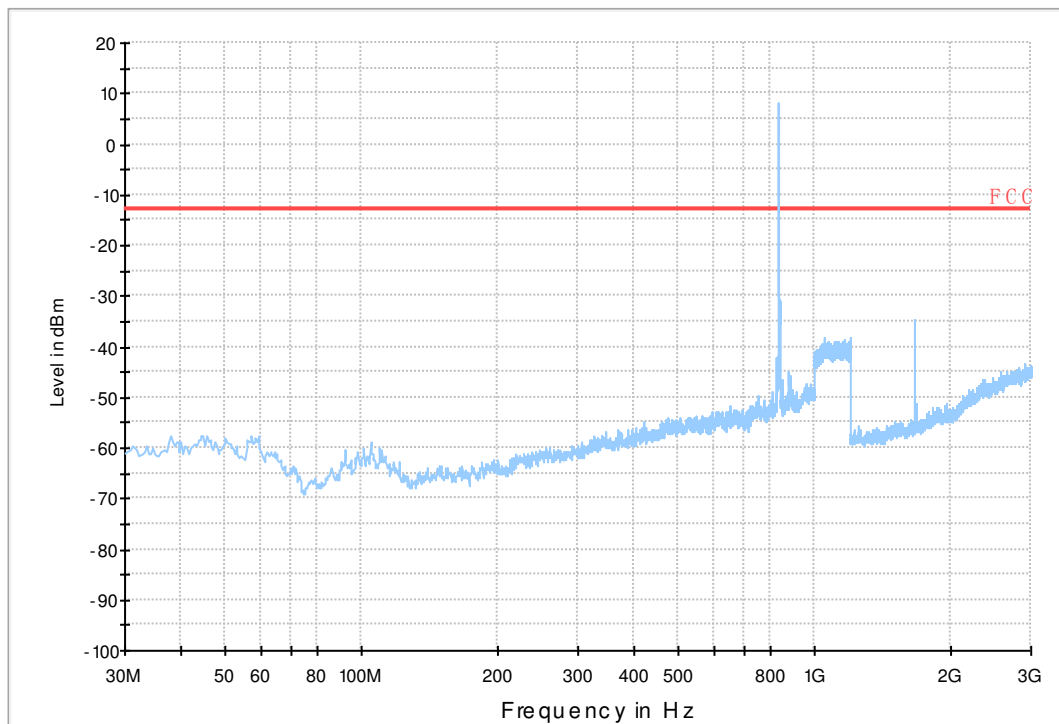
Copy of RSE-TX-DIRECTOR BELOW 1G_H



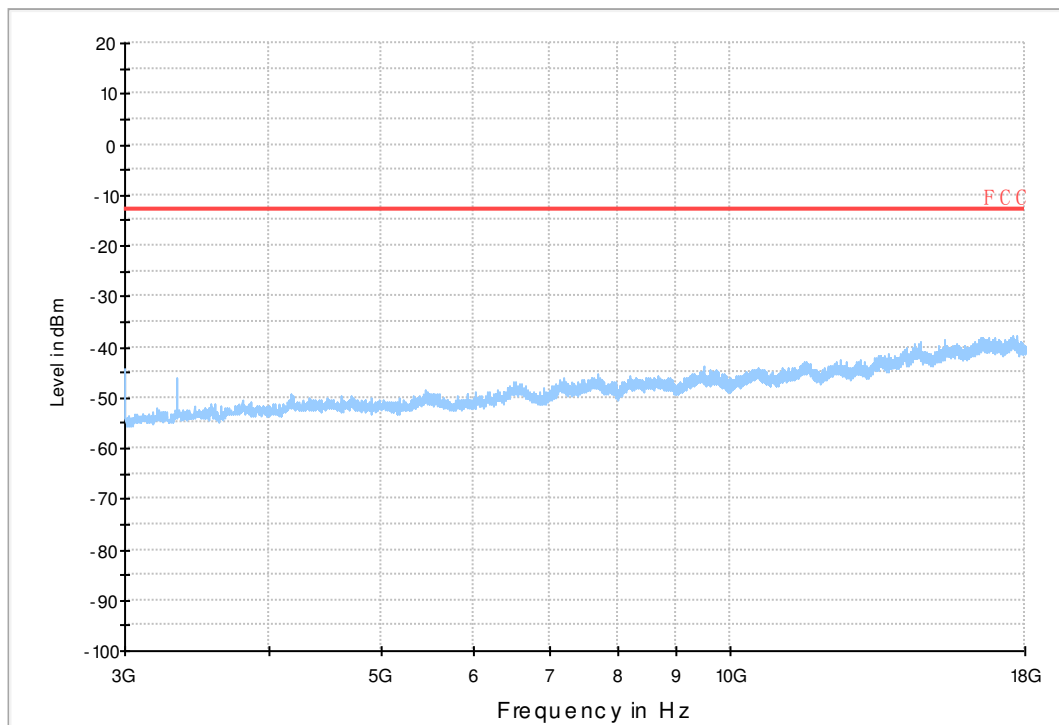
7.1.1.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H





8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1 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	TN	VL	-0.8	-0.00097	PASS
					VN	-0.99	-0.0012	PASS
					VH	-0.49	-0.00059	PASS
			MCH	TN	VL	0.51	0.00061	PASS
					VN	0.97	0.00116	PASS
					VH	0.49	0.00059	PASS
			HCH	TN	VL	-0.87	-0.00103	PASS
					VN	0.64	0.00075	PASS
					VH	-0.96	-0.00113	PASS
		3	LCH	TN	VL	-9.91	-0.012	PASS
					VN	-1.43	-0.00173	PASS
					VH	12	0.01454	PASS
			MCH	TN	VL	6.39	0.00764	PASS
					VN	-2.59	-0.0031	PASS
					VH	-0.9	-0.00108	PASS
			HCH	TN	VL	17.05	0.02012	PASS
					VN	7.64	0.00901	PASS
					VH	-3.58	-0.00422	PASS
		5	LCH	TN	VL	-5.21	-0.0063	PASS
					VN	-2.1	-0.00254	PASS
					VH	1.89	0.00229	PASS
			MCH	TN	VL	0.24	0.00029	PASS
					VN	-7.48	-0.00894	PASS
					VH	-4.53	-0.00542	PASS
			HCH	TN	VL	-1.65	-0.00195	PASS
					VN	-5.36	-0.00633	PASS
					VH	6.25	0.00738	PASS
		10	LCH	TN	VL	-19.18	-0.02314	PASS
					VN	-0.54	-0.00065	PASS
					VH	2.92	0.00352	PASS
			MCH	TN	VL	3.48	0.00416	PASS
					VN	-17.22	-0.02059	PASS
					VH	-13.58	-0.01623	PASS
			HCH	TN	VL	2.65	0.00314	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-0.01	-0.00001	PASS
					VH	-3.28	-0.00389	PASS
		1.4	LCH	TN	VL	-0.27	-0.00033	PASS
					VN	-0.63	-0.00076	PASS
					VH	-0.2	-0.00024	PASS
					VL	-0.59	-0.00071	PASS
			MCH	TN	VN	-0.69	-0.00082	PASS
					VH	-0.83	-0.00099	PASS
					VL	-0.6	-0.00071	PASS
					VN	-0.54	-0.00065	PASS
			HCH	TN	VH	0.04	0.00005	PASS
					VL	-7.8	-0.00945	PASS
					VN	6.72	0.00814	PASS
					VH	2.09	0.00253	PASS
		3	LCH	TN	VL	5.24	0.00626	PASS
					VN	4.02	0.00481	PASS
					VH	-5.51	-0.00659	PASS
			MCH	TN	VL	7.51	0.00886	PASS
					VN	11.87	0.01401	PASS
					VH	-5.61	-0.00662	PASS
			HCH	TN	VL	-9.21	-0.01114	PASS
					VN	-1.03	-0.00125	PASS
					VH	-4.13	-0.005	PASS
			LCH	TN	VL	-1.67	-0.002	PASS
					VN	-3.16	-0.00378	PASS
					VH	-3.68	-0.0044	PASS
		5	MCH	TN	VL	4.08	0.00482	PASS
					VN	14.45	0.01707	PASS
					VH	4.89	0.00578	PASS
			HCH	TN	VL	7.27	0.00877	PASS
					VN	-18.9	-0.0228	PASS
					VH	0.56	0.00068	PASS
			LCH	TN	VL	-4.99	-0.00597	PASS
					VN	29.01	0.03468	PASS
					VH	20.5	0.02451	PASS
			MCH	TN	VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS
			HCH	TN	VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS
			LCH	TN	VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS
			MCH	TN	VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS
			HCH	TN	VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS
			LCH	TN	VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS
			MCH	TN	VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS
			HCH	TN	VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	VN	-30	1.13	0.00137	PASS
					-20	0.7	0.00085	PASS
					-10	0.43	0.00052	PASS
					0	0.56	0.00068	PASS
					10	0.72	0.00087	PASS
					20	-0.26	-0.00032	PASS
					30	0.3	0.00036	PASS
					40	0.26	0.00032	PASS
					50	0.43	0.00052	PASS
			MCH	VN	-30	-0.07	-0.00008	PASS
					-20	0.23	0.00027	PASS
					-10	0.06	0.00007	PASS
					0	0.63	0.00075	PASS
					10	0.63	0.00075	PASS
					20	0.39	0.00047	PASS
					30	0.76	0.00091	PASS
					40	-0.2	-0.00024	PASS
					50	0.26	0.00031	PASS
			HCH	VN	-30	-0.51	-0.0006	PASS
					-20	-1.72	-0.00203	PASS
					-10	-1.19	-0.0014	PASS
					0	-1.42	-0.00167	PASS
					10	-2	-0.00236	PASS
					20	0.04	0.00005	PASS
					30	0.21	0.00025	PASS
					40	0.73	0.00086	PASS
					50	0.27	0.00032	PASS
		3	LCH	VN	-30	-0.4	-0.00048	PASS
					-20	-2.63	-0.00319	PASS
					-10	5.54	0.00671	PASS
					0	-0.09	-0.00011	PASS
					10	7.14	0.00865	PASS
					20	0.2	0.00024	PASS
					30	-7.28	-0.00882	PASS
					40	0.77	0.00093	PASS
					50	0.53	0.00064	PASS
			MCH	VN	-30	2.53	0.00302	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	2.1	0.00251	PASS
					-10	1.29	0.00154	PASS
					0	-2.25	-0.00269	PASS
					10	6.64	0.00794	PASS
					20	5.19	0.0062	PASS
					30	-1.8	-0.00215	PASS
					40	1.27	0.00152	PASS
					50	5.05	0.00604	PASS
			HCH	VN	-30	5.58	0.00658	PASS
					-20	2.93	0.00346	PASS
					-10	-5.06	-0.00597	PASS
					0	-5.31	-0.00627	PASS
					10	-3.62	-0.00427	PASS
					20	7.37	0.0087	PASS
					30	5.14	0.00606	PASS
					40	-1.76	-0.00208	PASS
					50	-1.54	-0.00182	PASS
		5	LCH	VN	-30	-3.95	-0.00478	PASS
					-20	-10.77	-0.01303	PASS
					-10	-0.59	-0.00071	PASS
					0	2.02	0.00244	PASS
					10	3.99	0.00483	PASS
					20	-2.93	-0.00355	PASS
					30	-0.93	-0.00113	PASS
					40	0.97	0.00117	PASS
					50	3.02	0.00365	PASS
			MCH	VN	-30	-1.77	-0.00212	PASS
					-20	-1.56	-0.00186	PASS
					-10	-2.12	-0.00253	PASS
					0	-1.59	-0.0019	PASS
					10	-3.32	-0.00397	PASS
					20	-1.36	-0.00163	PASS
					30	-1.04	-0.00124	PASS
					40	-3.05	-0.00365	PASS
					50	-0.47	-0.00056	PASS
			HCH	VN	-30	-10.34	-0.01222	PASS
					-20	9	0.01063	PASS
					-10	3.03	0.00358	PASS
					0	-5.52	-0.00652	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-0.41	-0.00048	PASS
					20	-8.21	-0.0097	PASS
					30	-10.44	-0.01233	PASS
					40	5.22	0.00617	PASS
					50	0.57	0.00067	PASS
		10	LCH	VN	-30	-3.36	-0.00405	PASS
					-20	12.66	0.01527	PASS
					-10	9.83	0.01186	PASS
					0	-20.13	-0.02428	PASS
					10	-23.96	-0.0289	PASS
					20	-16.79	-0.02025	PASS
					30	-0.66	-0.0008	PASS
					40	13.95	0.01683	PASS
					50	-23.2	-0.02799	PASS
			MCH	VN	-30	-32.46	-0.0388	PASS
					-20	28.61	0.0342	PASS
					-10	3.59	0.00429	PASS
					0	-21.11	-0.02524	PASS
					10	2.43	0.0029	PASS
					20	4.72	0.00564	PASS
					30	-9.13	-0.01091	PASS
					40	-17.81	-0.02129	PASS
					50	-23.93	-0.02861	PASS
			HCH	VN	-30	-6.84	-0.0081	PASS
					-20	4.58	0.00543	PASS
					-10	-3.49	-0.00414	PASS
					0	-9.38	-0.01111	PASS
					10	1.1	0.0013	PASS
					20	1.95	0.00231	PASS
					30	2.32	0.00275	PASS
					40	-0.84	-0.001	PASS
					50	-6.52	-0.00773	PASS
	LTE/TM2	1.4	LCH	VN	-30	0.31	0.00038	PASS
					-20	0.19	0.00023	PASS
					-10	-0.34	-0.00041	PASS
					0	0.31	0.00038	PASS
					10	-0.17	-0.00021	PASS
					20	0.46	0.00056	PASS
					30	0.19	0.00023	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-0.79	-0.00096	PASS
					50	0.83	0.00101	PASS
			MCH	VN	-30	-1.79	-0.00214	PASS
					-20	-0.93	-0.00111	PASS
					-10	-0.21	-0.00025	PASS
					0	-0.41	-0.00049	PASS
					10	-2.13	-0.00255	PASS
					20	-0.64	-0.00077	PASS
					30	1.13	0.00135	PASS
					40	-0.34	-0.00041	PASS
					50	0.4	0.00048	PASS
			HCH	VN	-30	0.3	0.00035	PASS
					-20	-0.14	-0.00017	PASS
					-10	-0.79	-0.00093	PASS
					0	-1	-0.00118	PASS
					10	-1.3	-0.00153	PASS
					20	0.74	0.00087	PASS
					30	0.49	0.00058	PASS
					40	-1.43	-0.00169	PASS
					50	-0.4	-0.00047	PASS
		3	LCH	VN	-30	-0.17	-0.00021	PASS
					-20	-2.37	-0.00287	PASS
					-10	0.7	0.00085	PASS
					0	4.19	0.00508	PASS
					10	-0.33	-0.0004	PASS
					20	3.75	0.00454	PASS
					30	-3.81	-0.00462	PASS
					40	15.94	0.01931	PASS
					50	-1.14	-0.00138	PASS
			MCH	VN	-30	-4.82	-0.00576	PASS
					-20	2.13	0.00255	PASS
					-10	3.62	0.00433	PASS
					0	-4.36	-0.00521	PASS
					10	8.2	0.0098	PASS
					20	3.28	0.00392	PASS
					30	0.19	0.00023	PASS
					40	-9	-0.01076	PASS
					50	7.31	0.00874	PASS
			HCH	VN	-30	2.8	0.0033	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.66	0.00078	PASS
					-10	0.16	0.00019	PASS
					0	-2.73	-0.00322	PASS
					10	-11.94	-0.01409	PASS
					20	-6.14	-0.00724	PASS
					30	-3.26	-0.00385	PASS
					40	-0.31	-0.00037	PASS
					50	-12.3	-0.01451	PASS
		5	LCH	VN	-30	8.73	0.01056	PASS
					-20	14.25	0.01724	PASS
					-10	0.73	0.00088	PASS
					0	0.46	0.00056	PASS
					10	-0.63	-0.00076	PASS
					20	-0.07	-0.00008	PASS
					30	-0.8	-0.00097	PASS
					40	-3.12	-0.00377	PASS
					50	0.92	0.00111	PASS
			MCH	VN	-30	-2.89	-0.00345	PASS
					-20	-2.02	-0.00241	PASS
					-10	-1.33	-0.00159	PASS
					0	-2.56	-0.00306	PASS
					10	2.52	0.00301	PASS
					20	-2.62	-0.00313	PASS
					30	-2.22	-0.00265	PASS
					40	1.22	0.00146	PASS
					50	3.99	0.00477	PASS
			HCH	VN	-30	0.74	0.00087	PASS
					-20	-3.55	-0.00419	PASS
					-10	0.57	0.00067	PASS
					0	-2.06	-0.00243	PASS
					10	2.33	0.00275	PASS
					20	-0.72	-0.00085	PASS
					30	1.47	0.00174	PASS
					40	-2.45	-0.00289	PASS
					50	-2.19	-0.00259	PASS
		10	LCH	VN	-30	-1.76	-0.00212	PASS
					-20	-5.72	-0.0069	PASS
					-10	0.63	0.00076	PASS
					0	-1.72	-0.00207	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	6.08	0.00733	PASS
					20	-1.89	-0.00228	PASS
					30	1.8	0.00217	PASS
					40	1.66	0.002	PASS
					50	-0.36	-0.00043	PASS
			MCH	VN	-30	-3.06	-0.00366	PASS
					-20	4.72	0.00564	PASS
					-10	4.39	0.00525	PASS
					0	2.9	0.00343	PASS
					10	3.81	0.0045	PASS
					20	-4.92	-0.00581	PASS
					30	-3.98	-0.0048	PASS
					40	0.94	0.00113	PASS
					50	-3.45	-0.00416	PASS
			HCH	VN	-30	3.91	0.00467	PASS
					-20	-4.68	-0.00559	PASS
					-10	7.77	0.00929	PASS
					0	-1.34	-0.00159	PASS
					10	-1.24	-0.00147	PASS
					20	-0.9	-0.00107	PASS
					30	0.29	0.00034	PASS
					40	0.11	0.00013	PASS
					50	-1.79	-0.00217	PASS

END