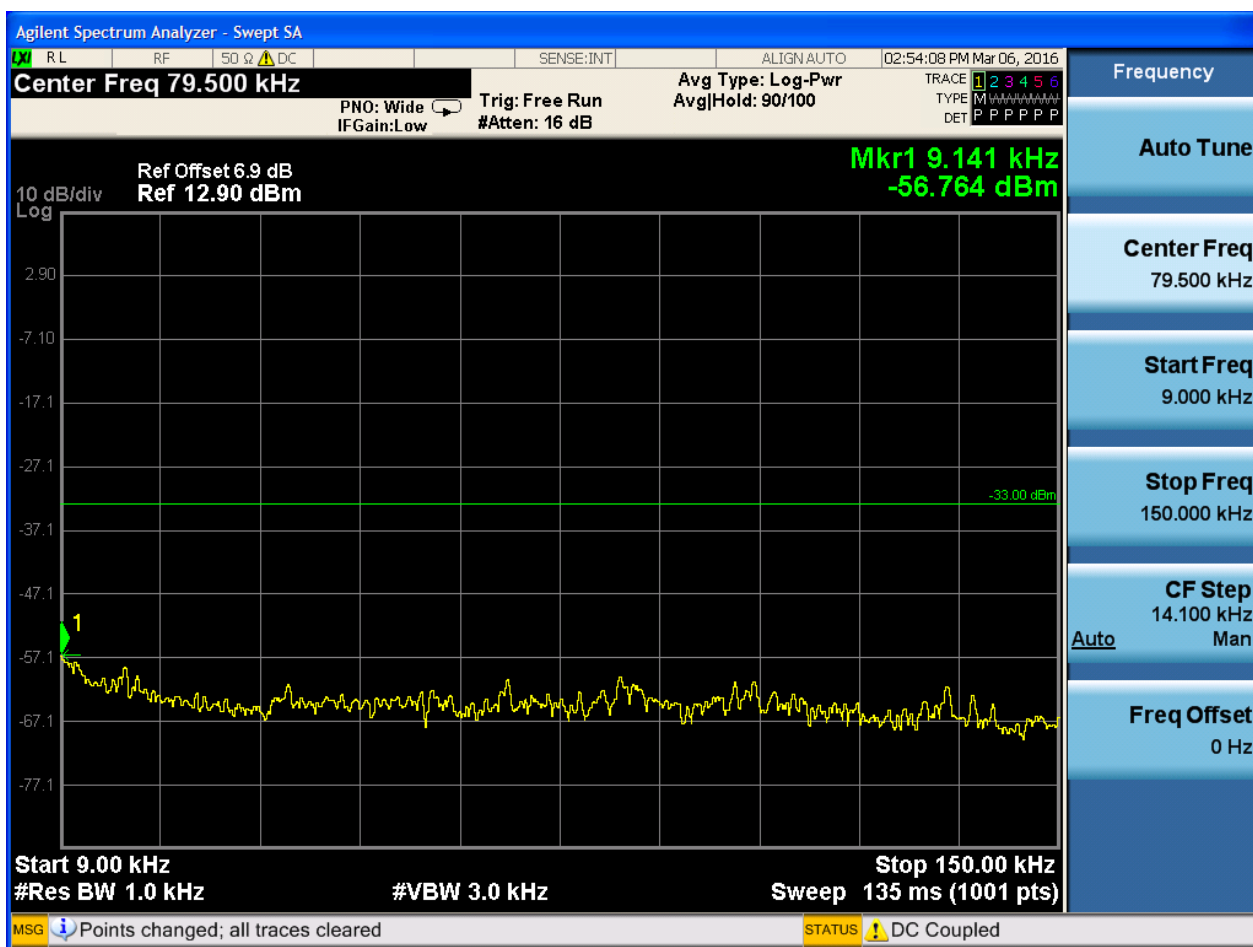
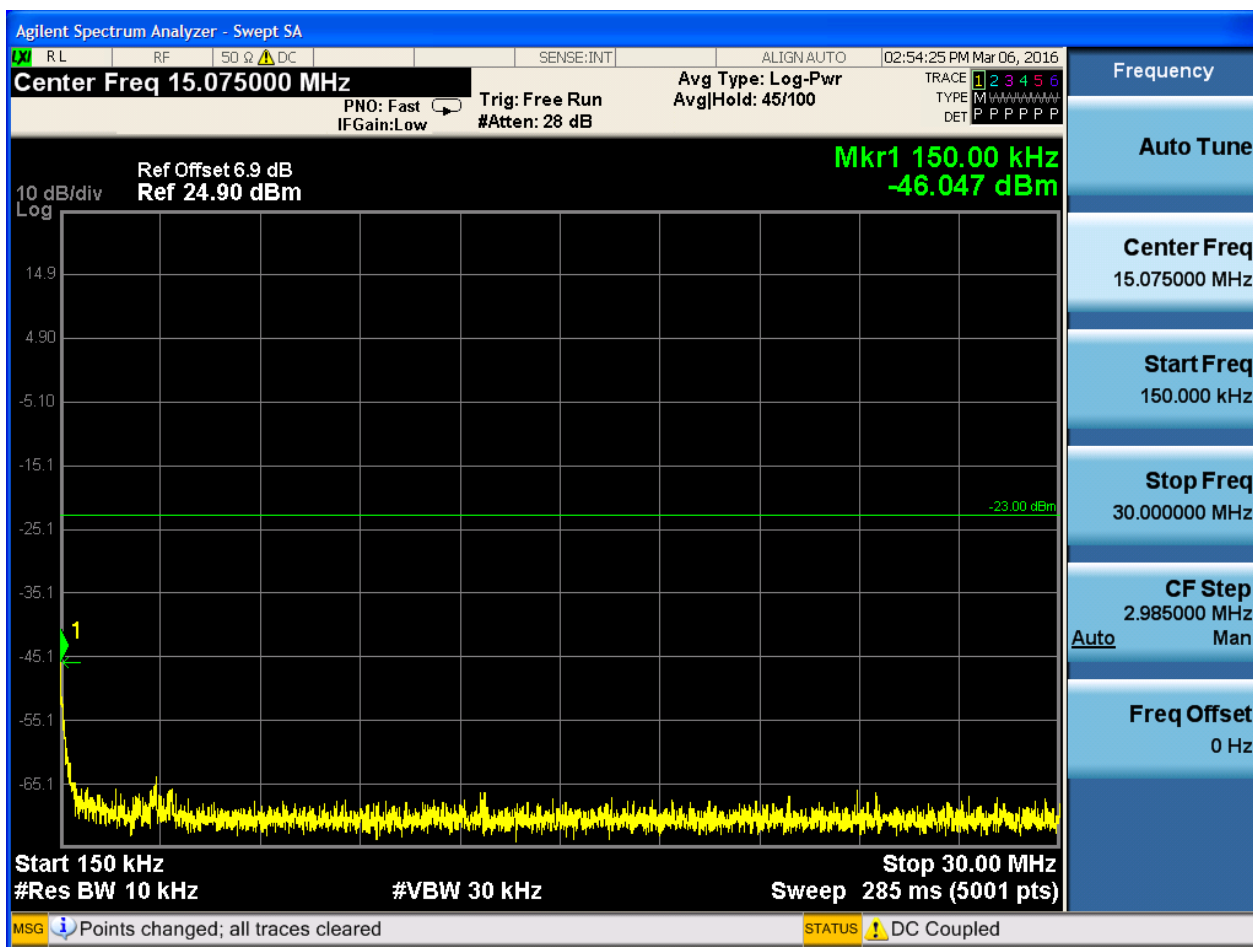


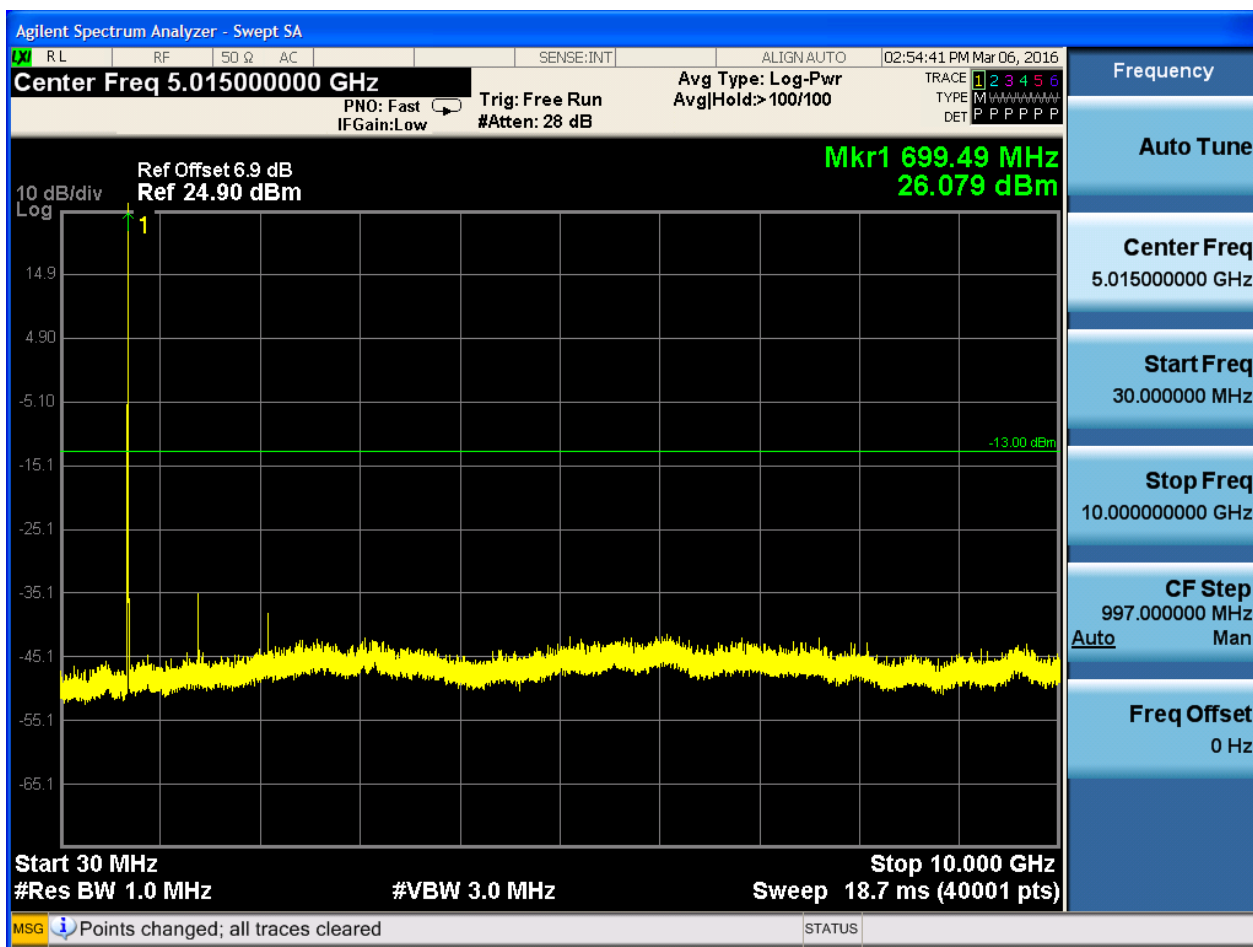
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



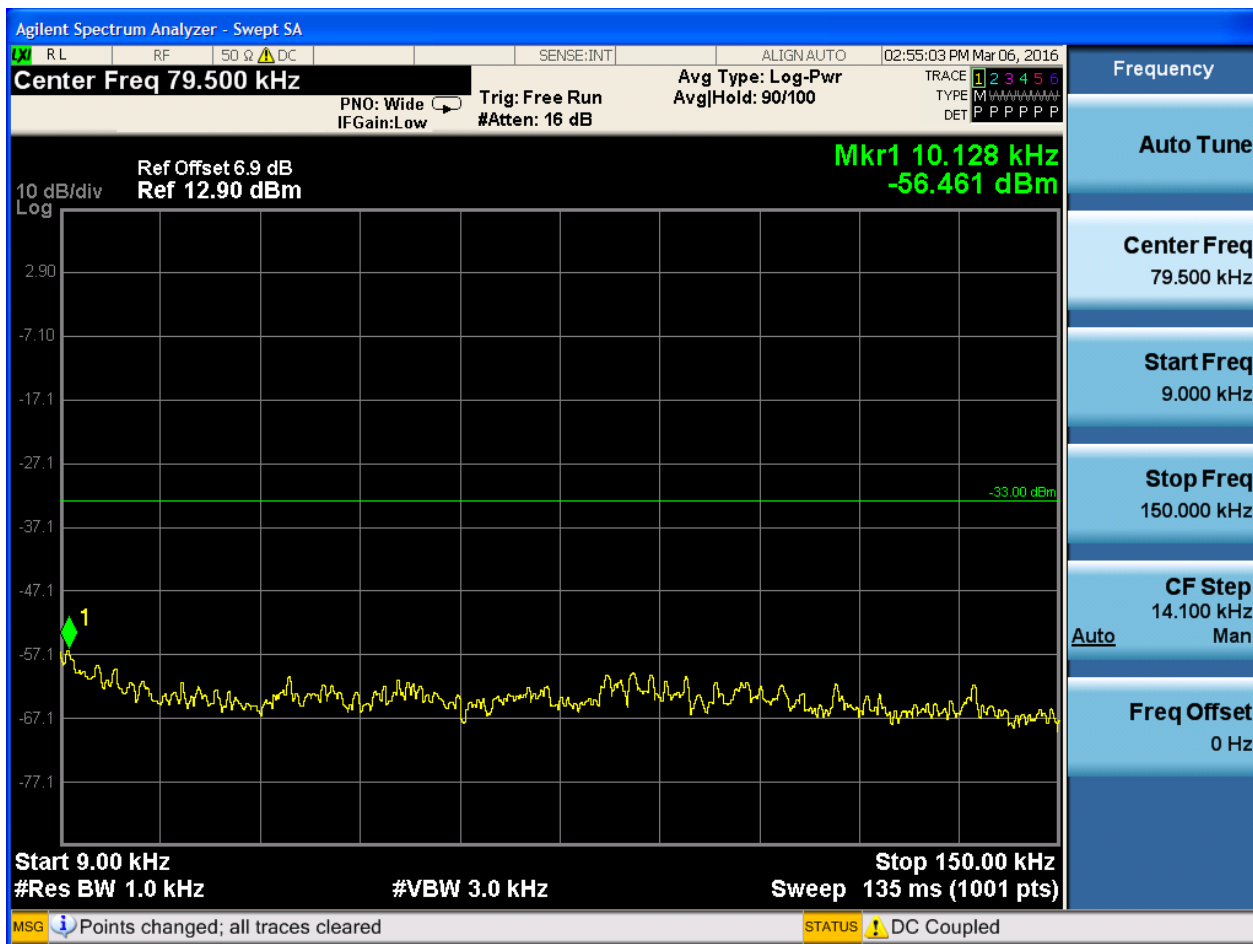




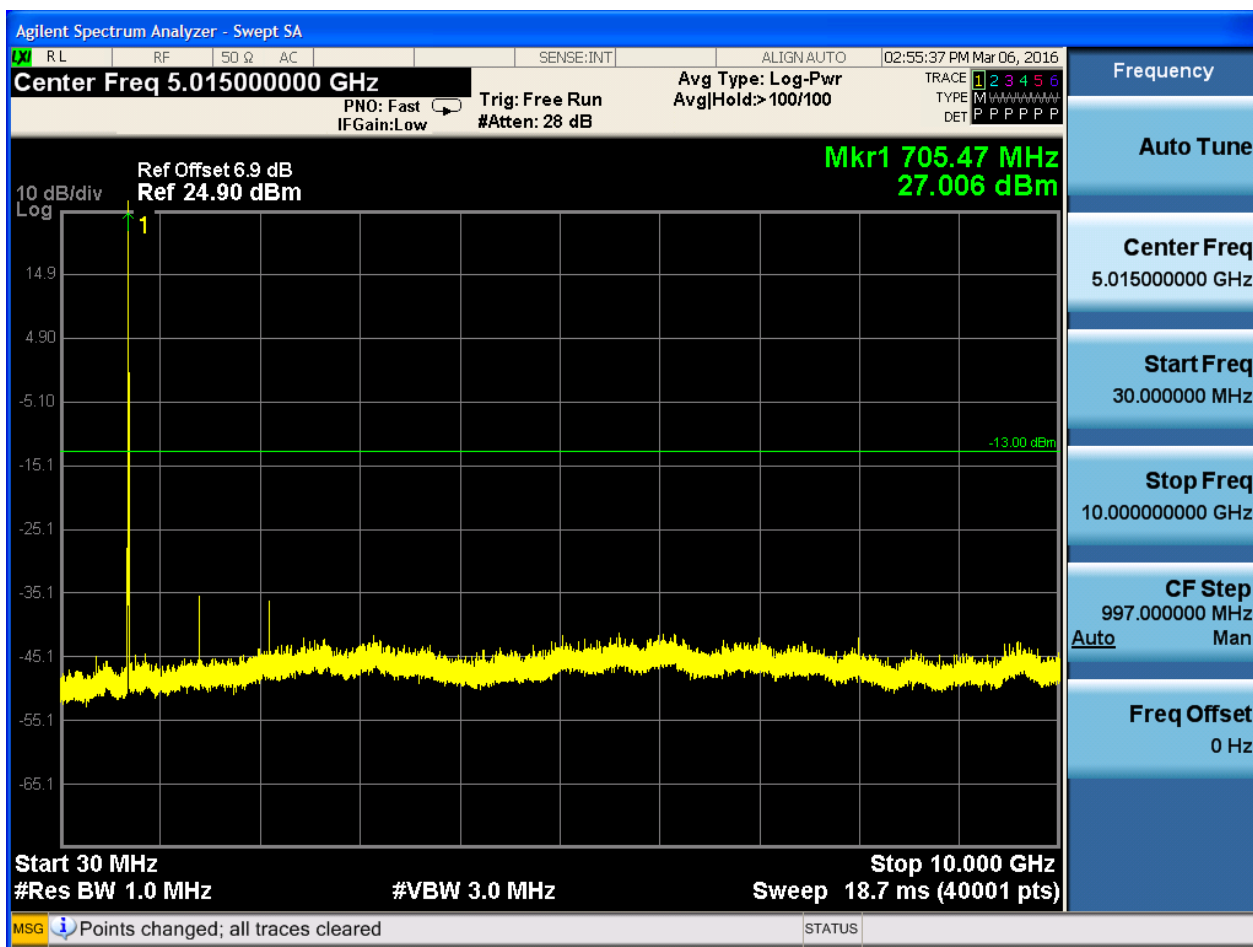


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

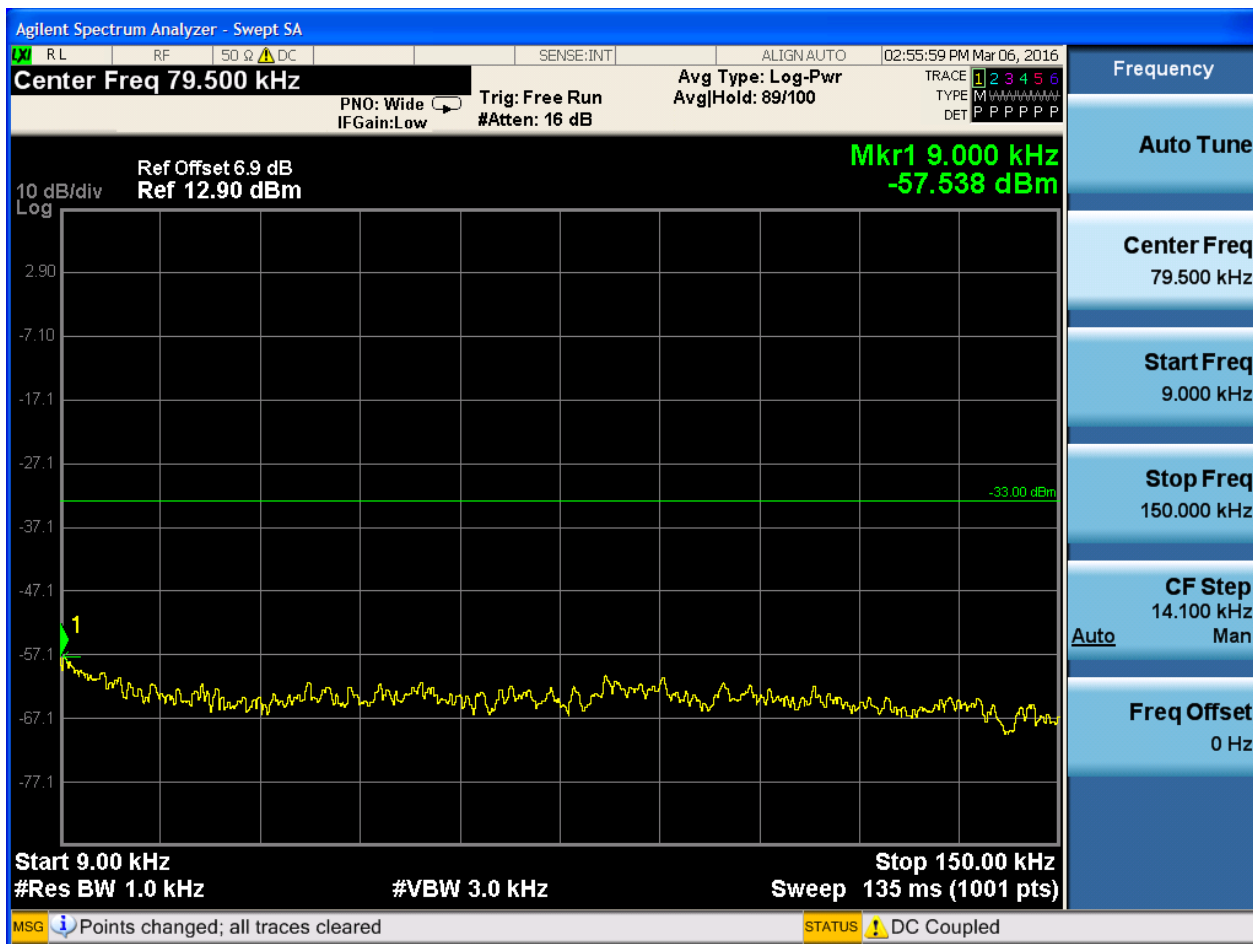


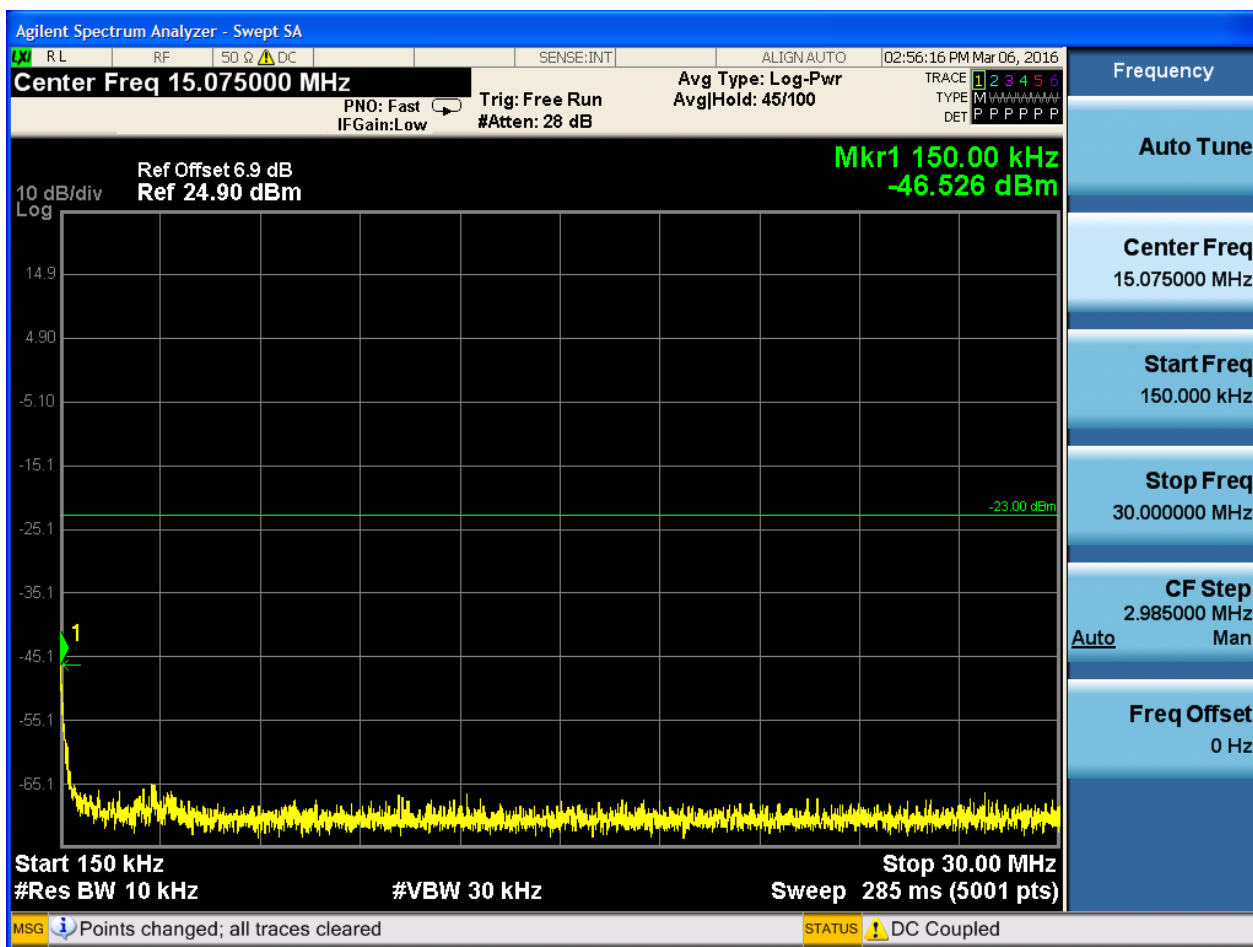


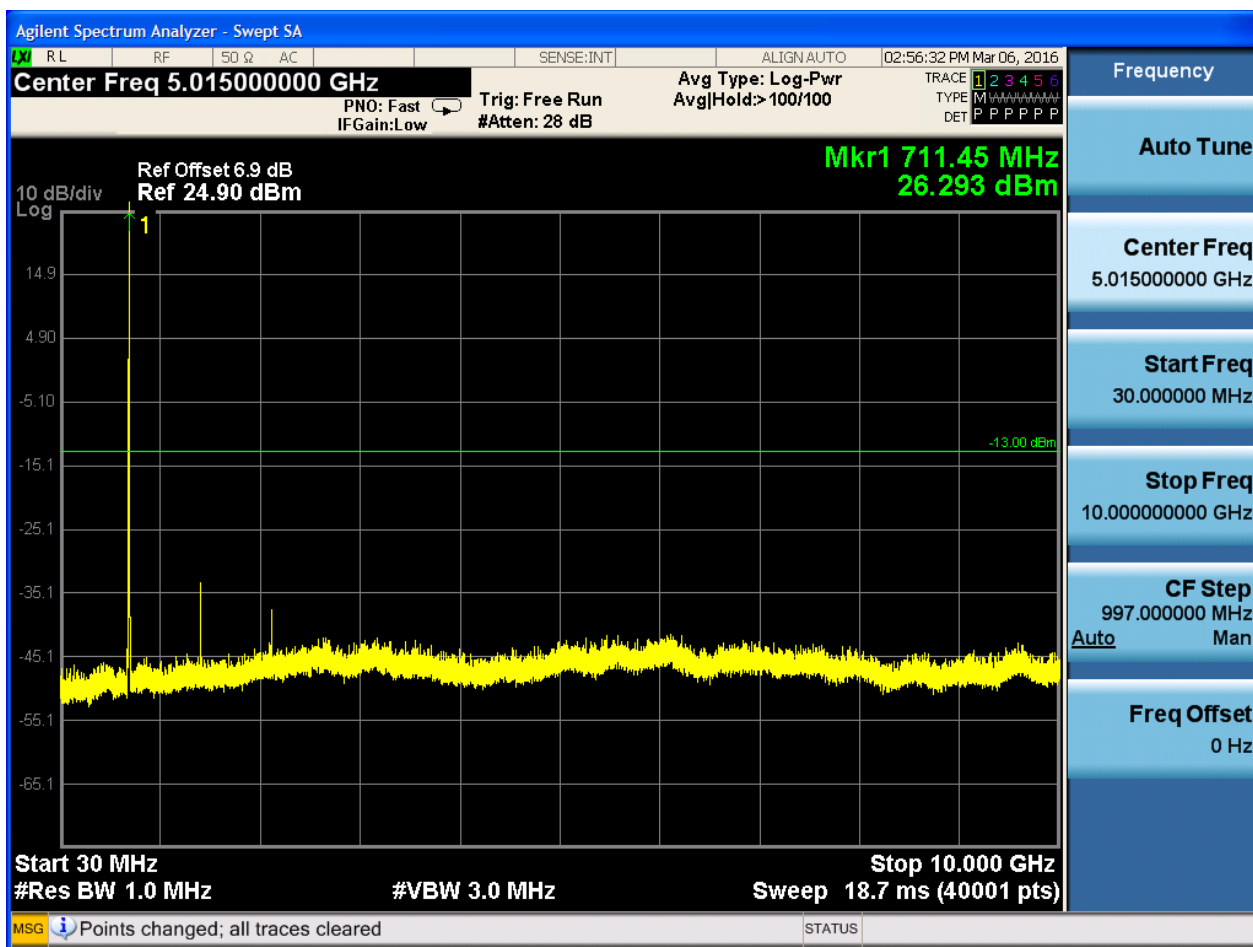


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





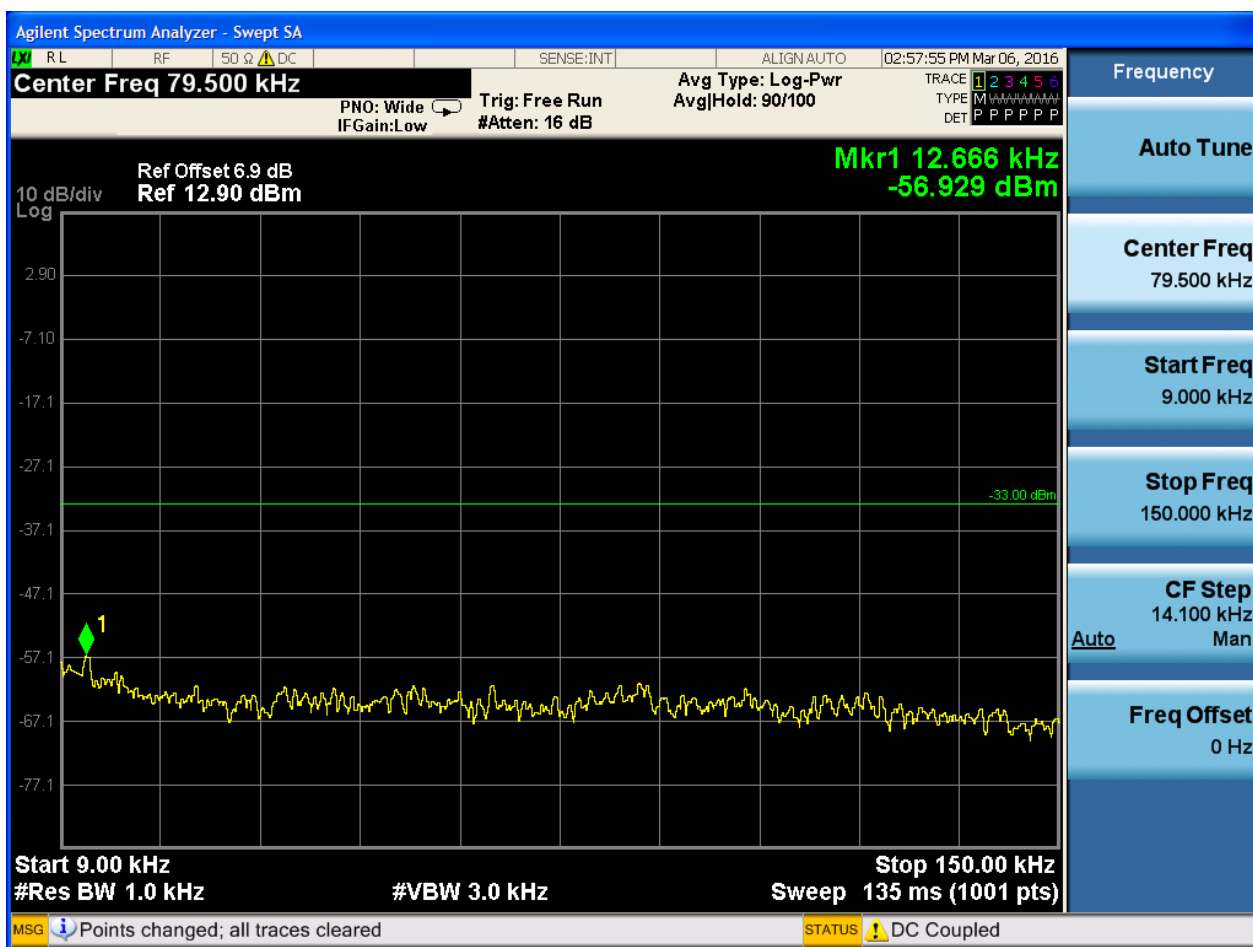


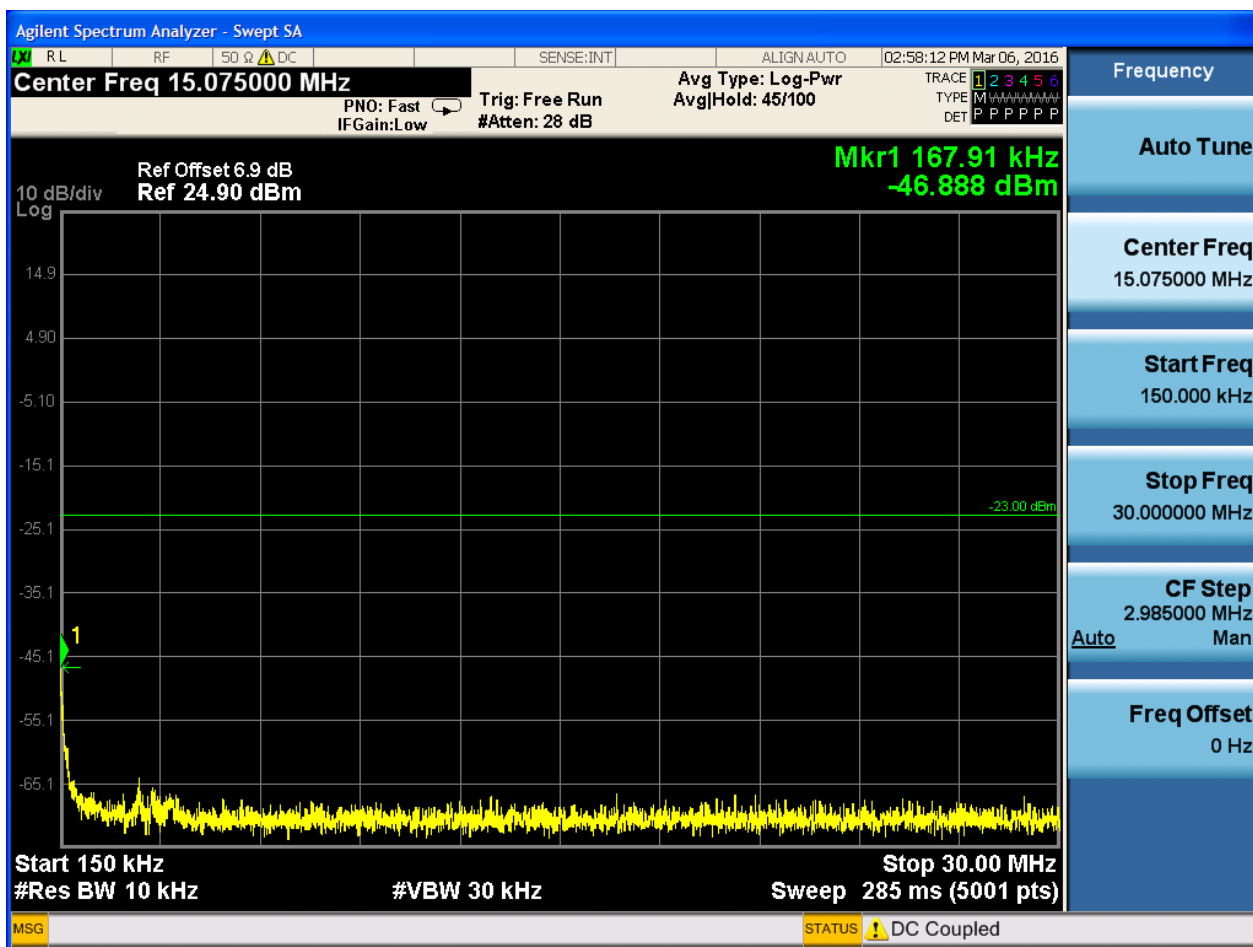


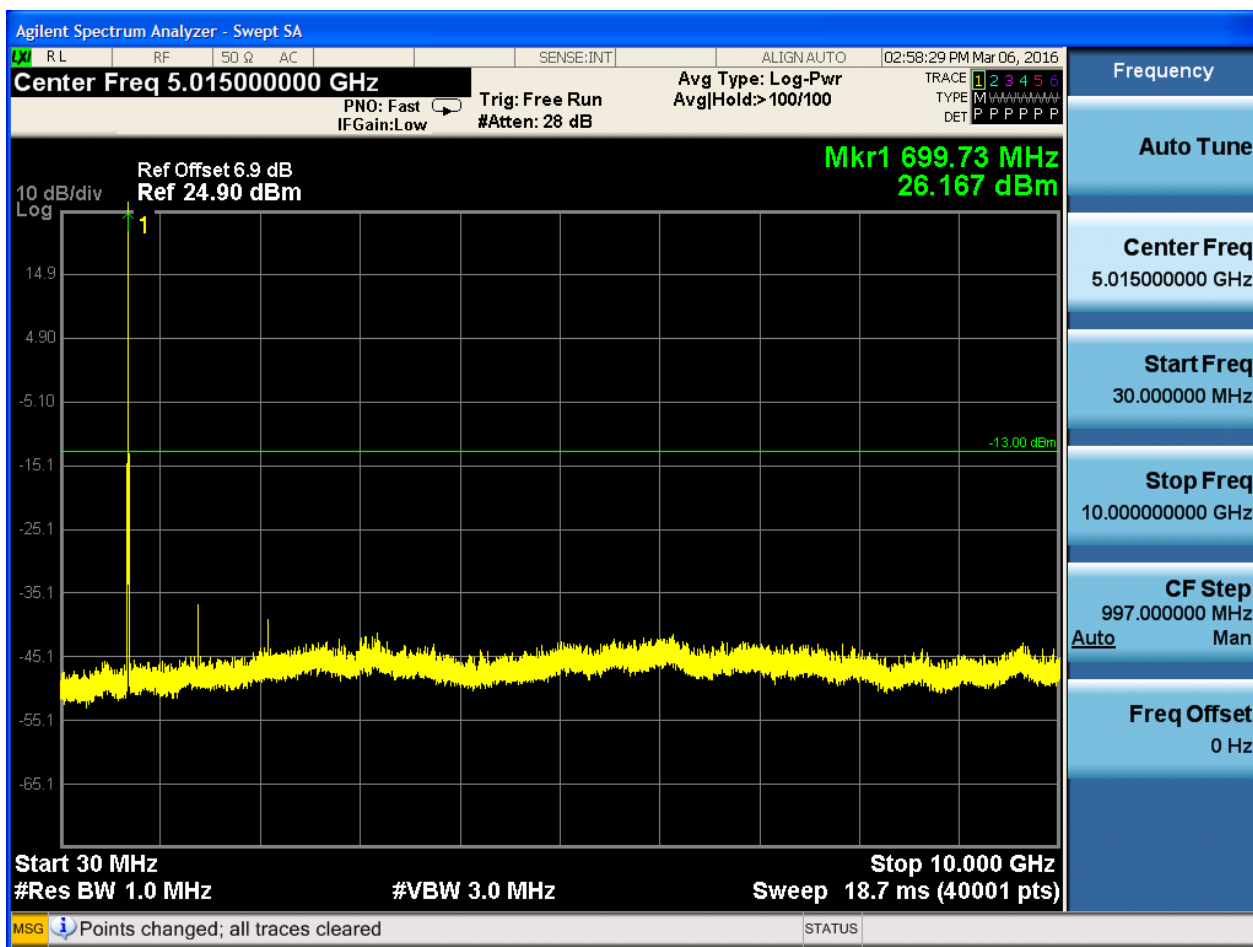
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

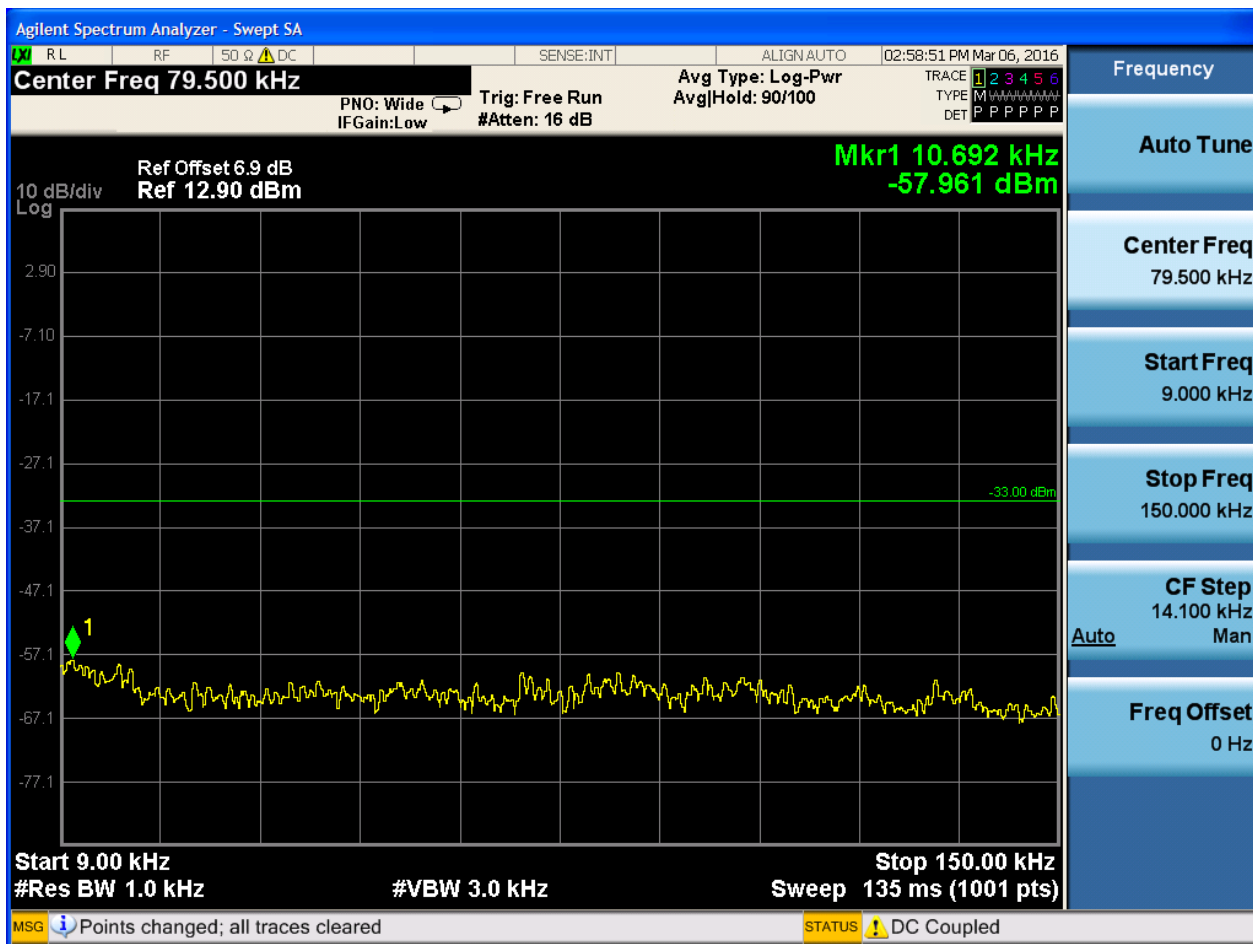


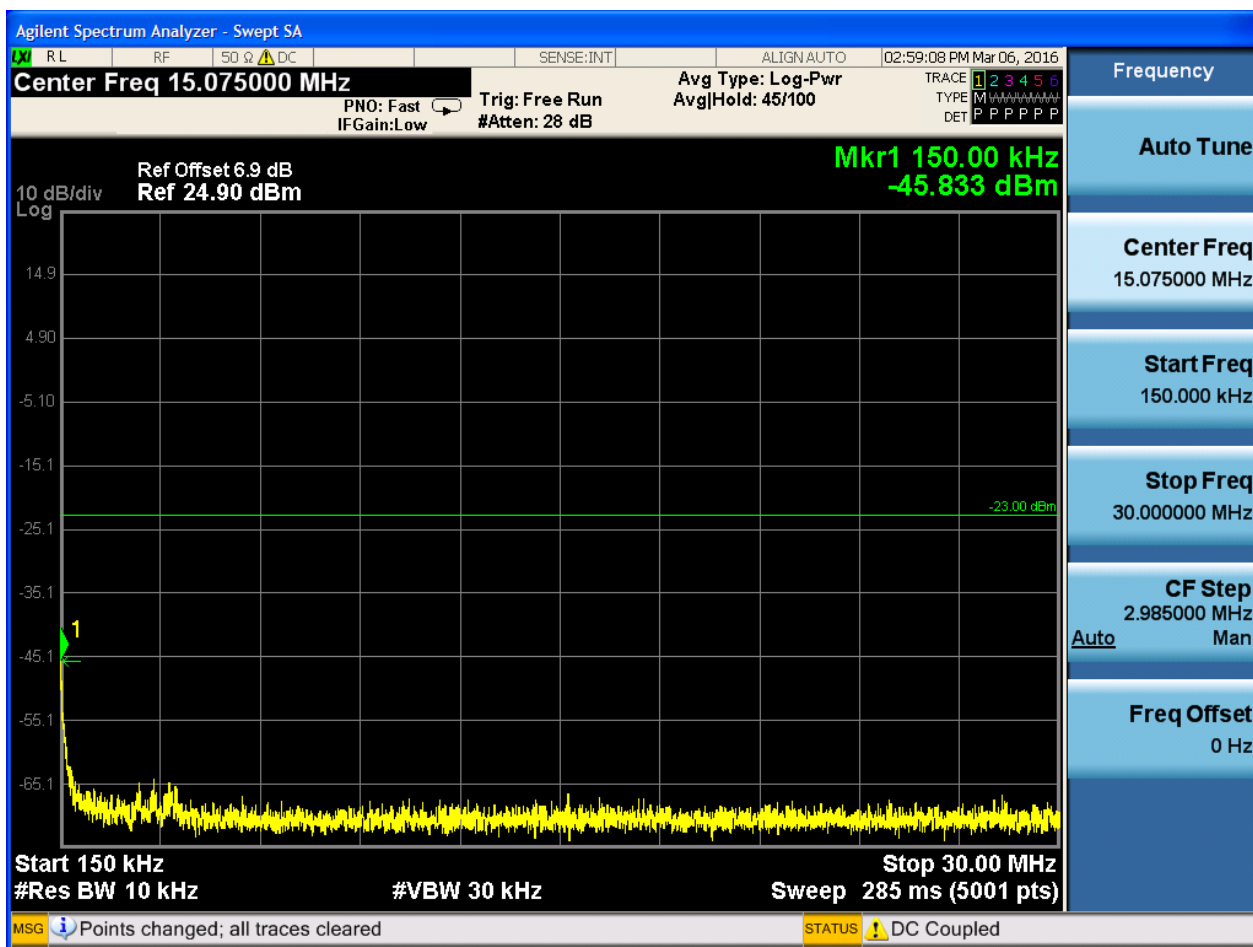


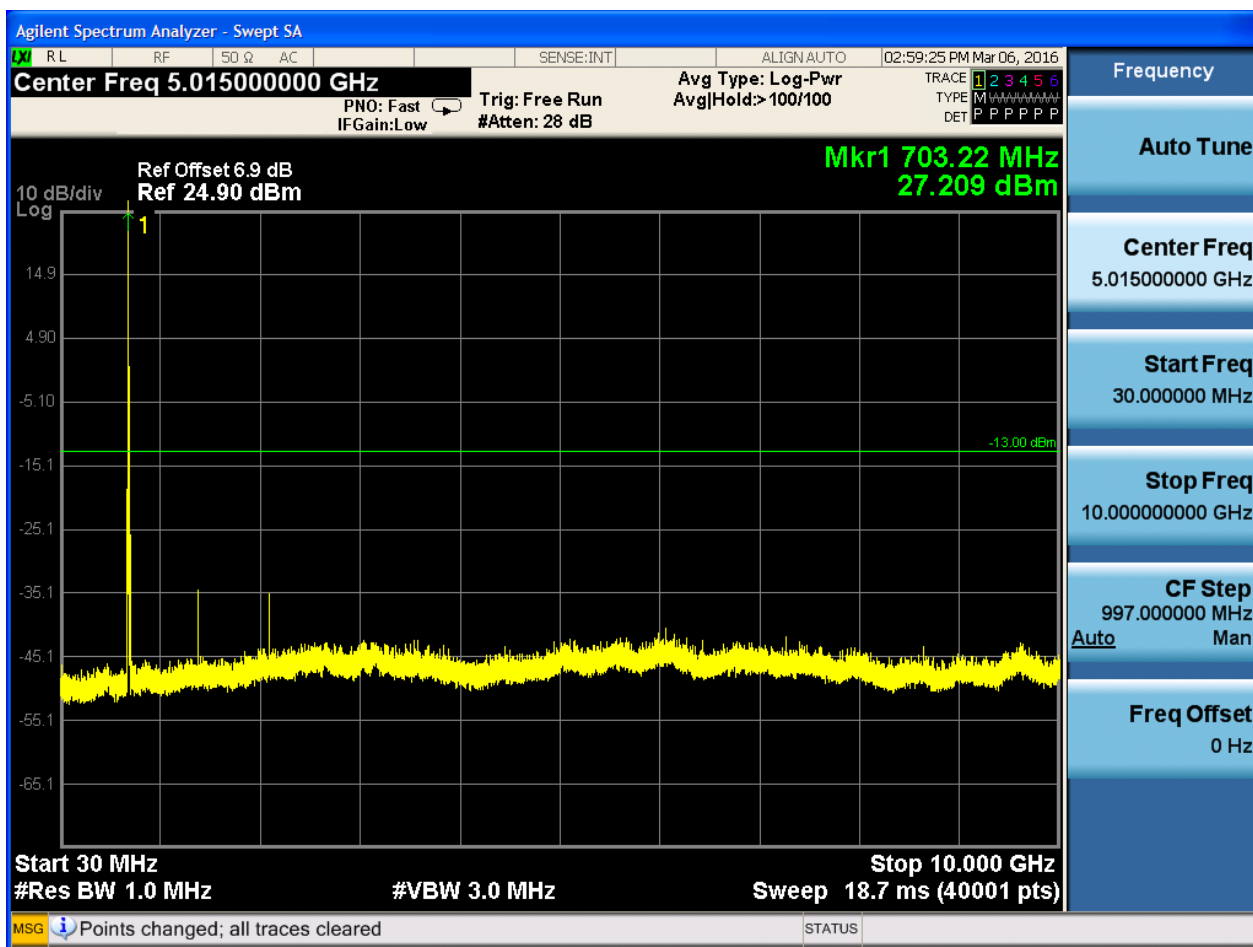


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



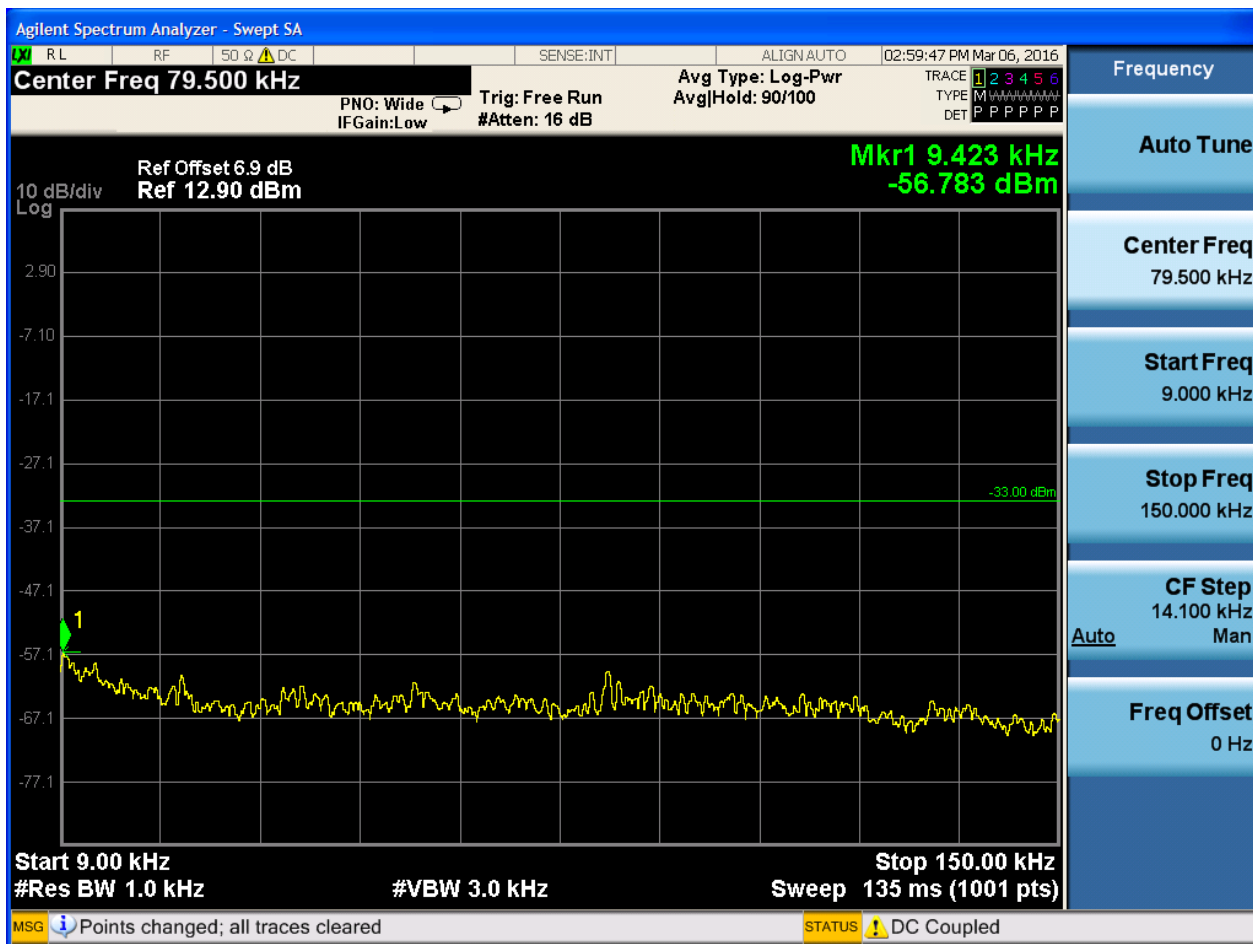


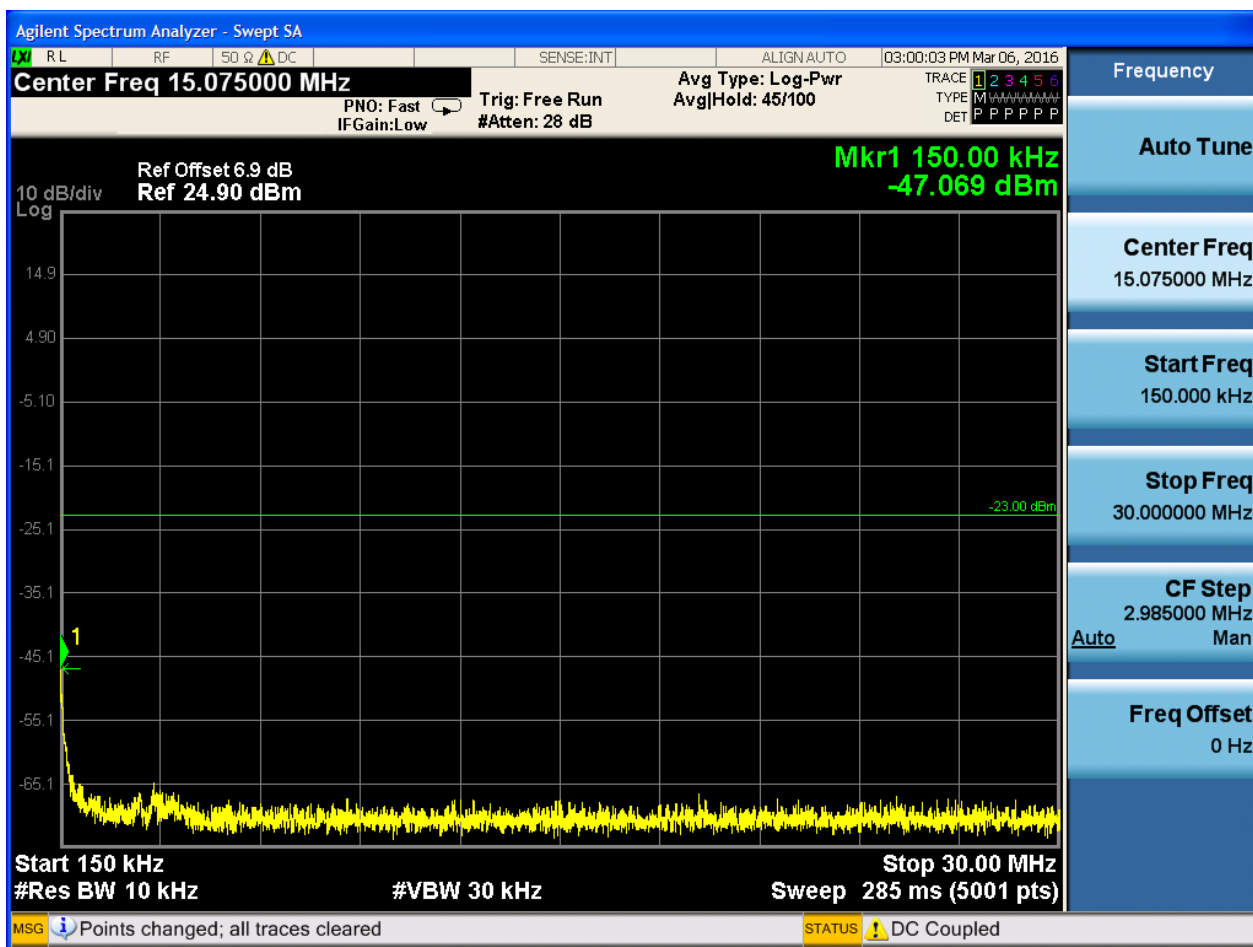


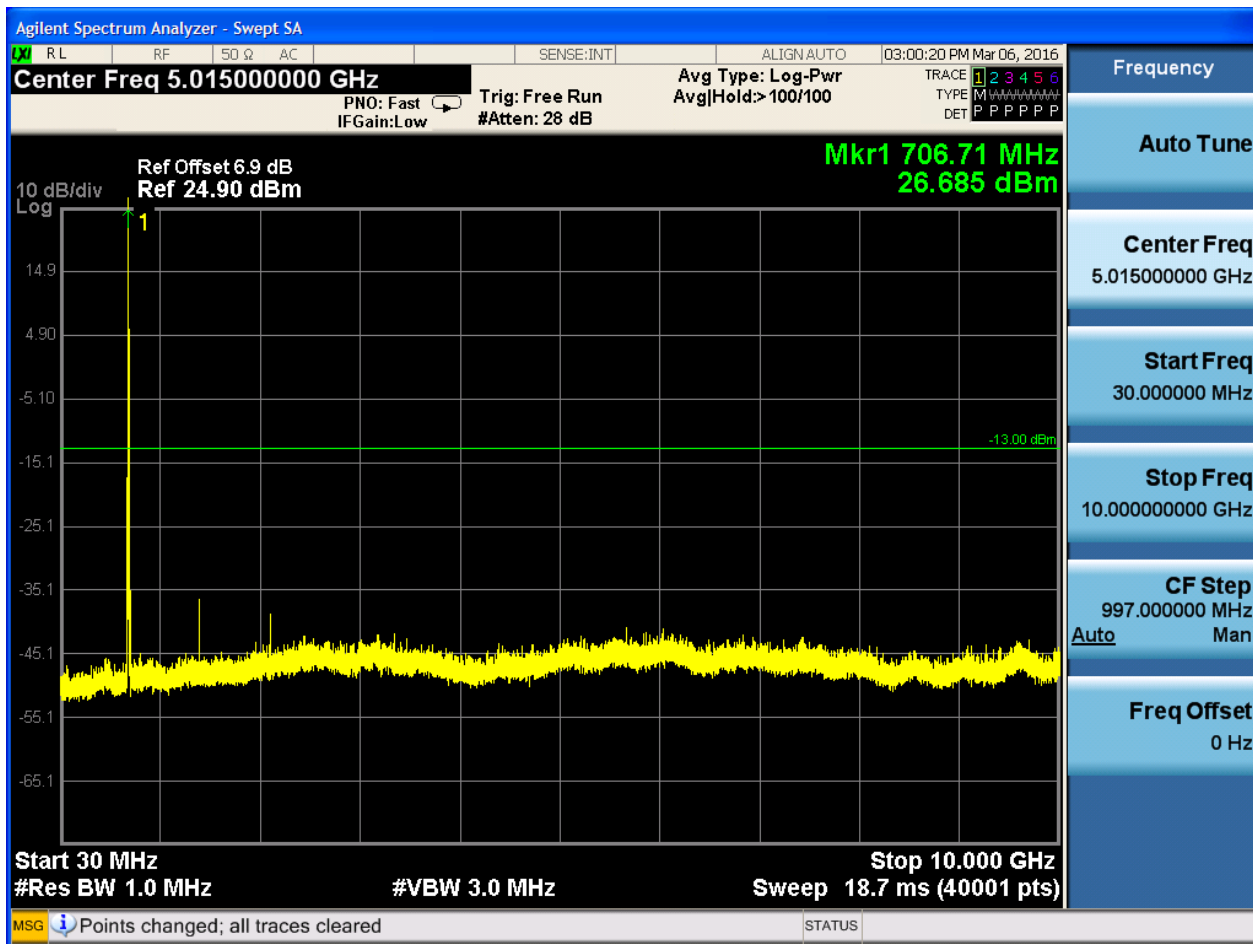


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0





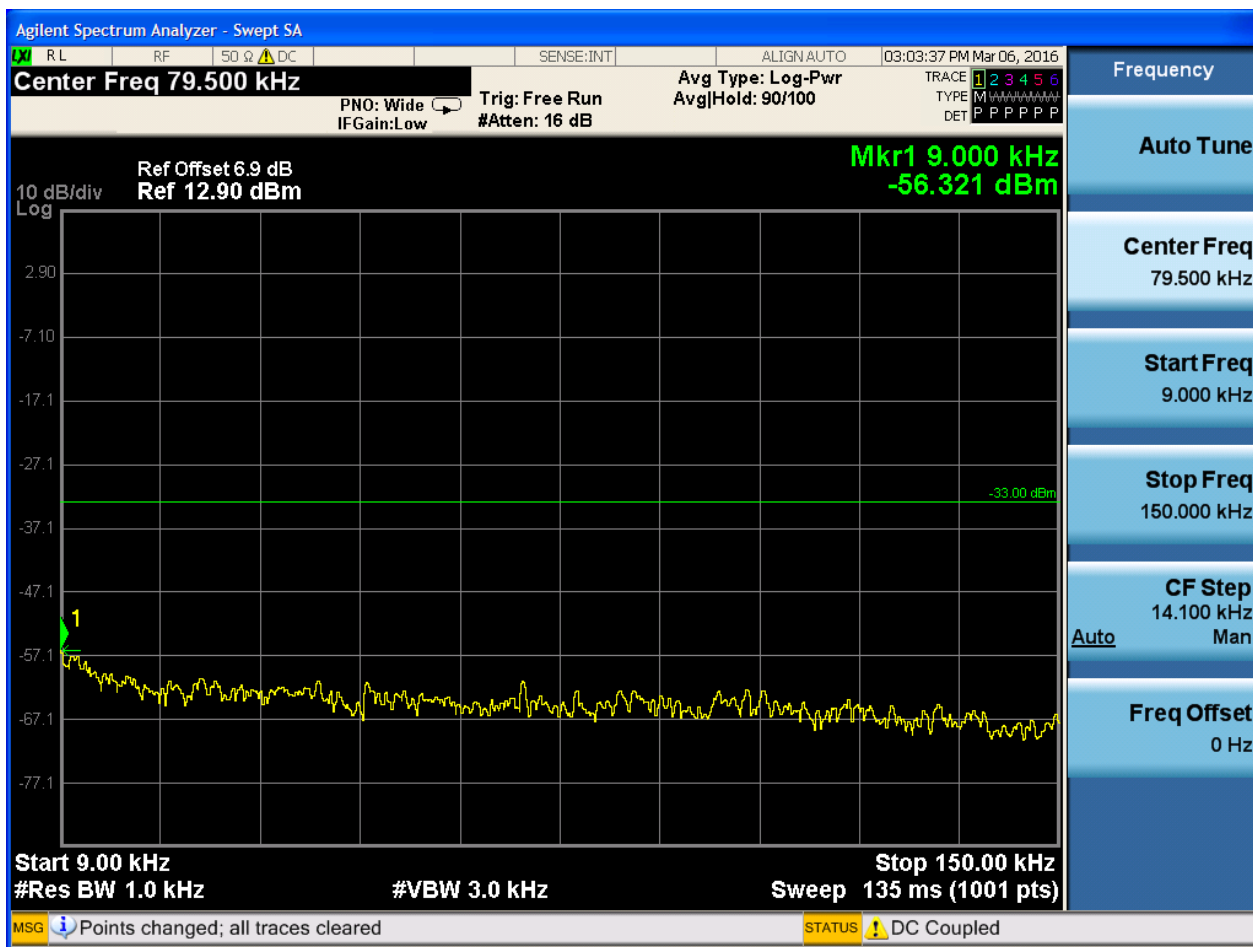


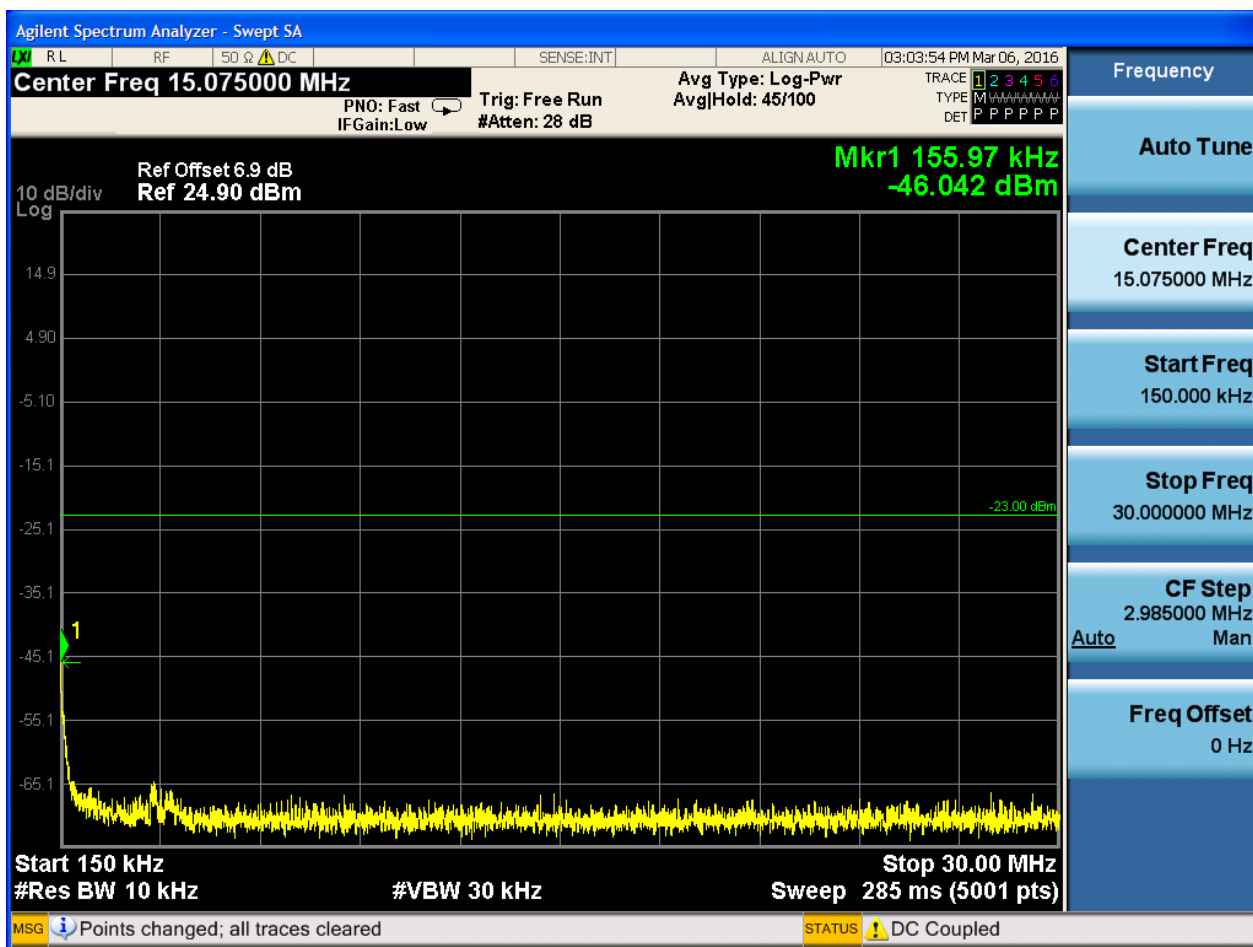
6.1.1.2 Test Mode = LTE/TM2

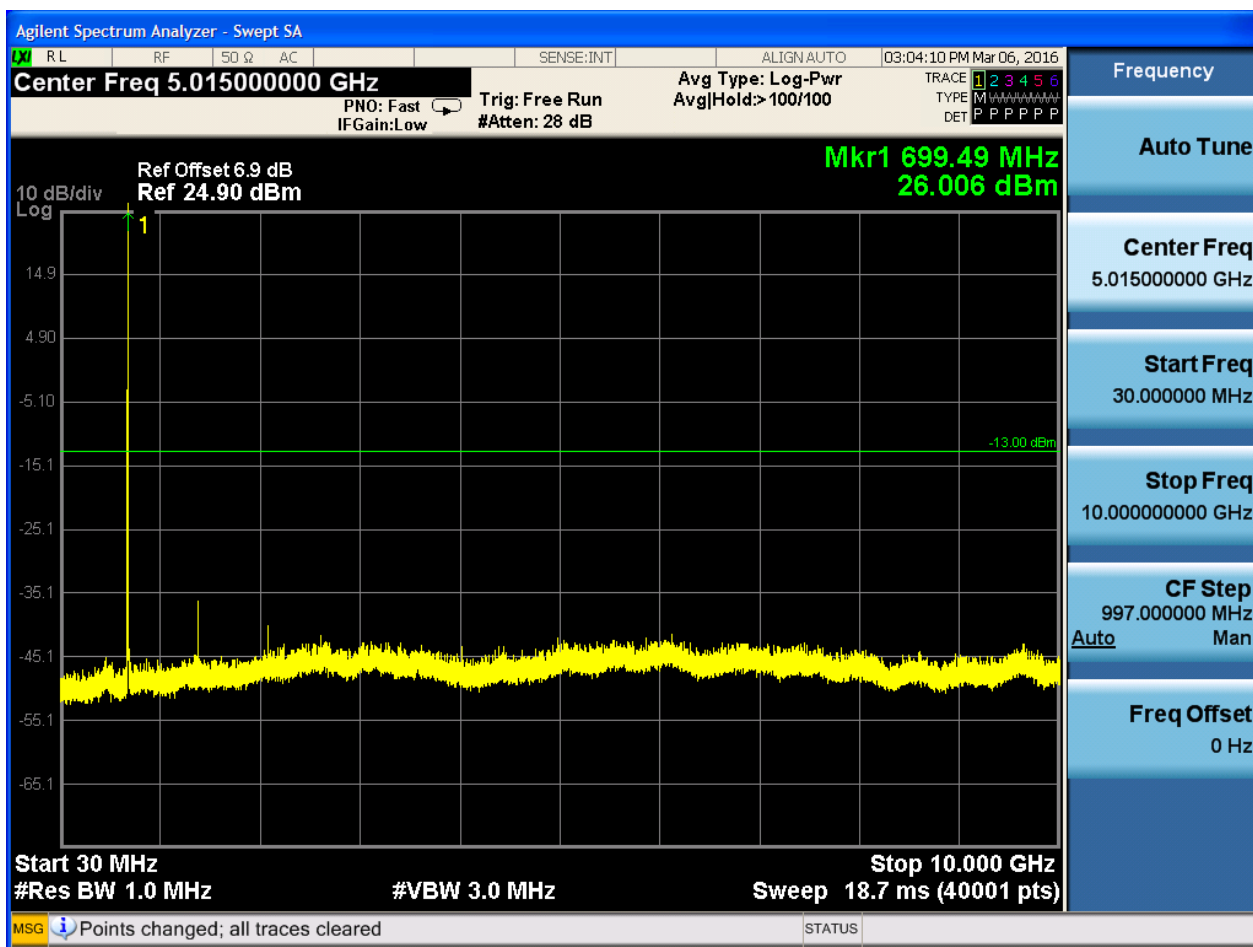
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

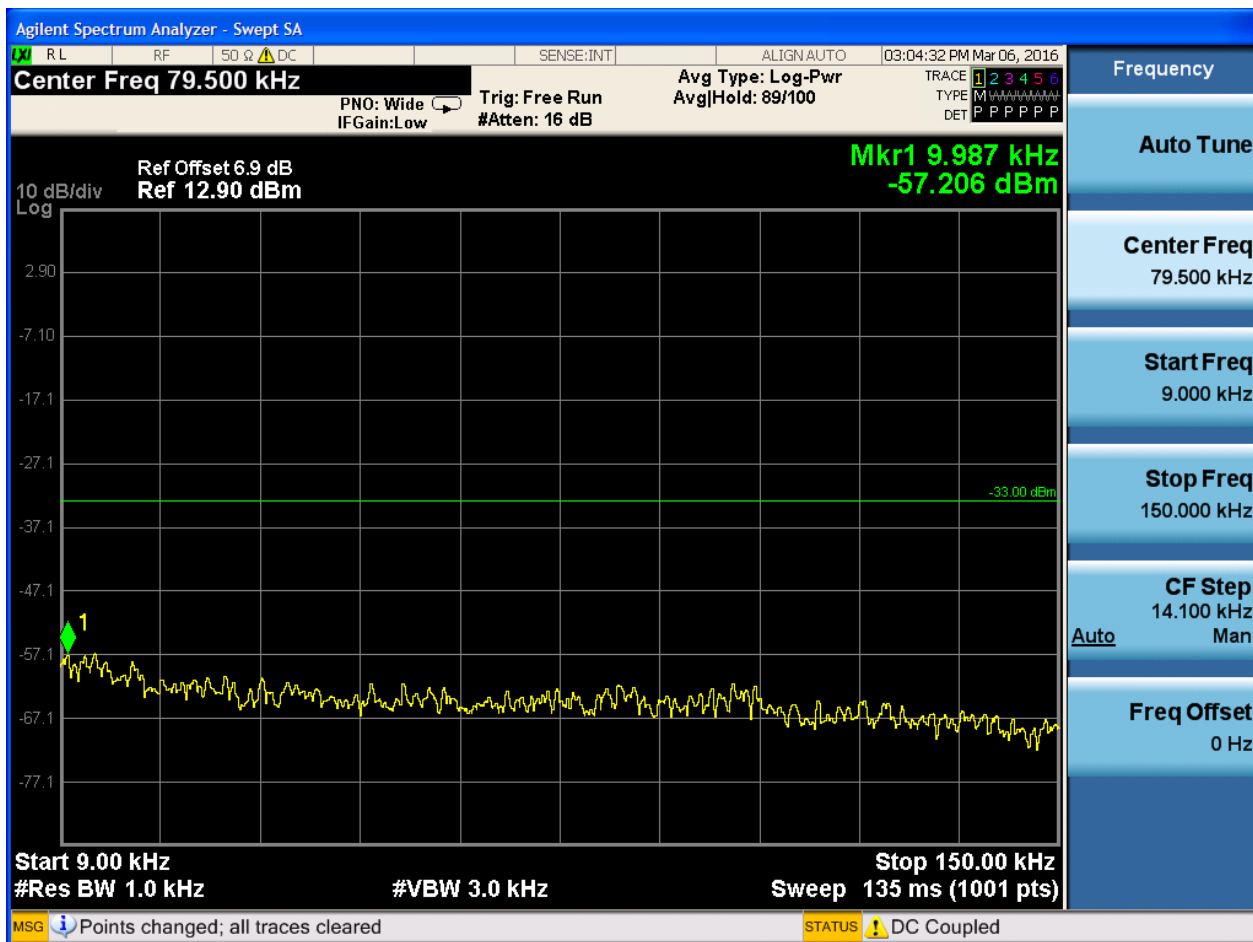


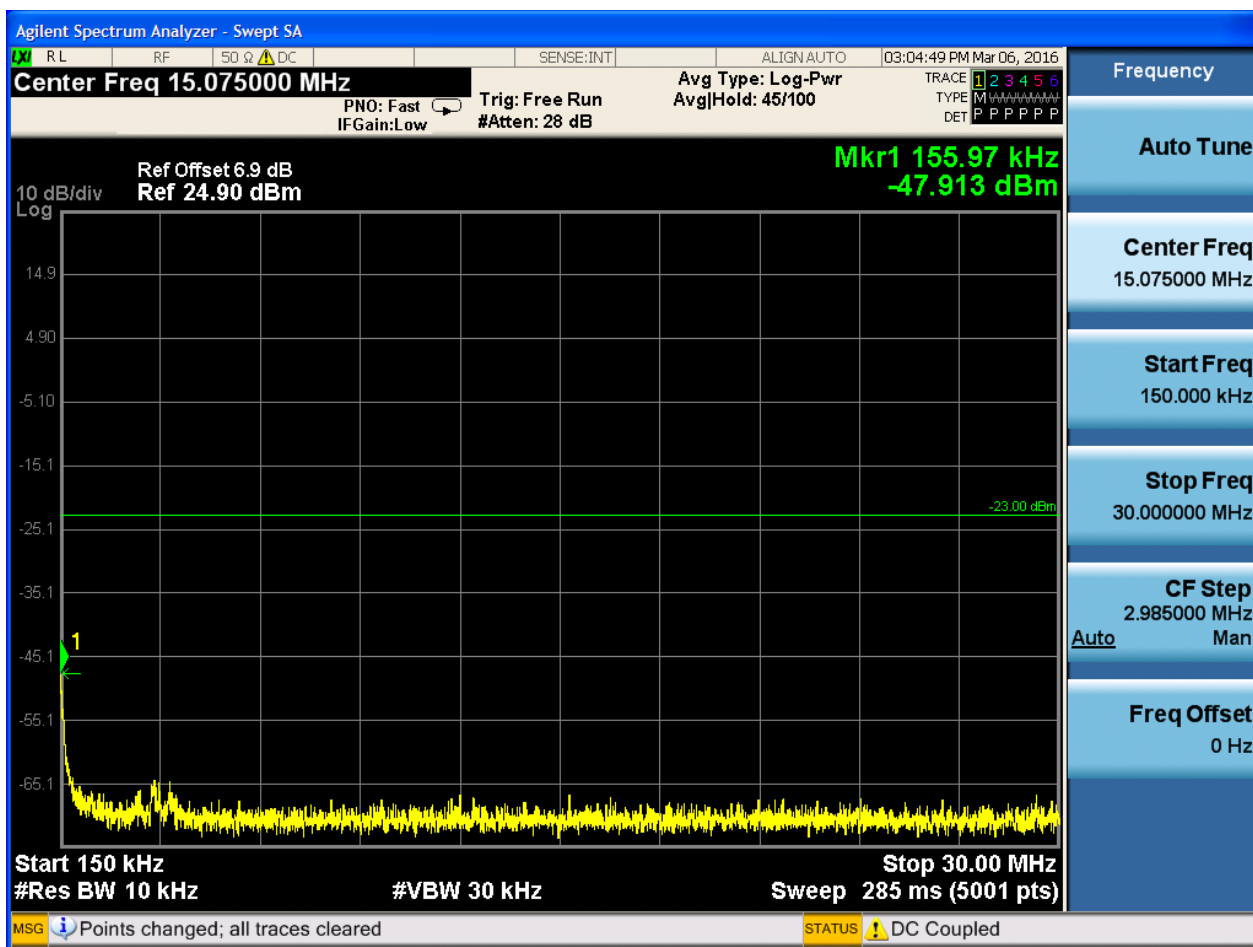


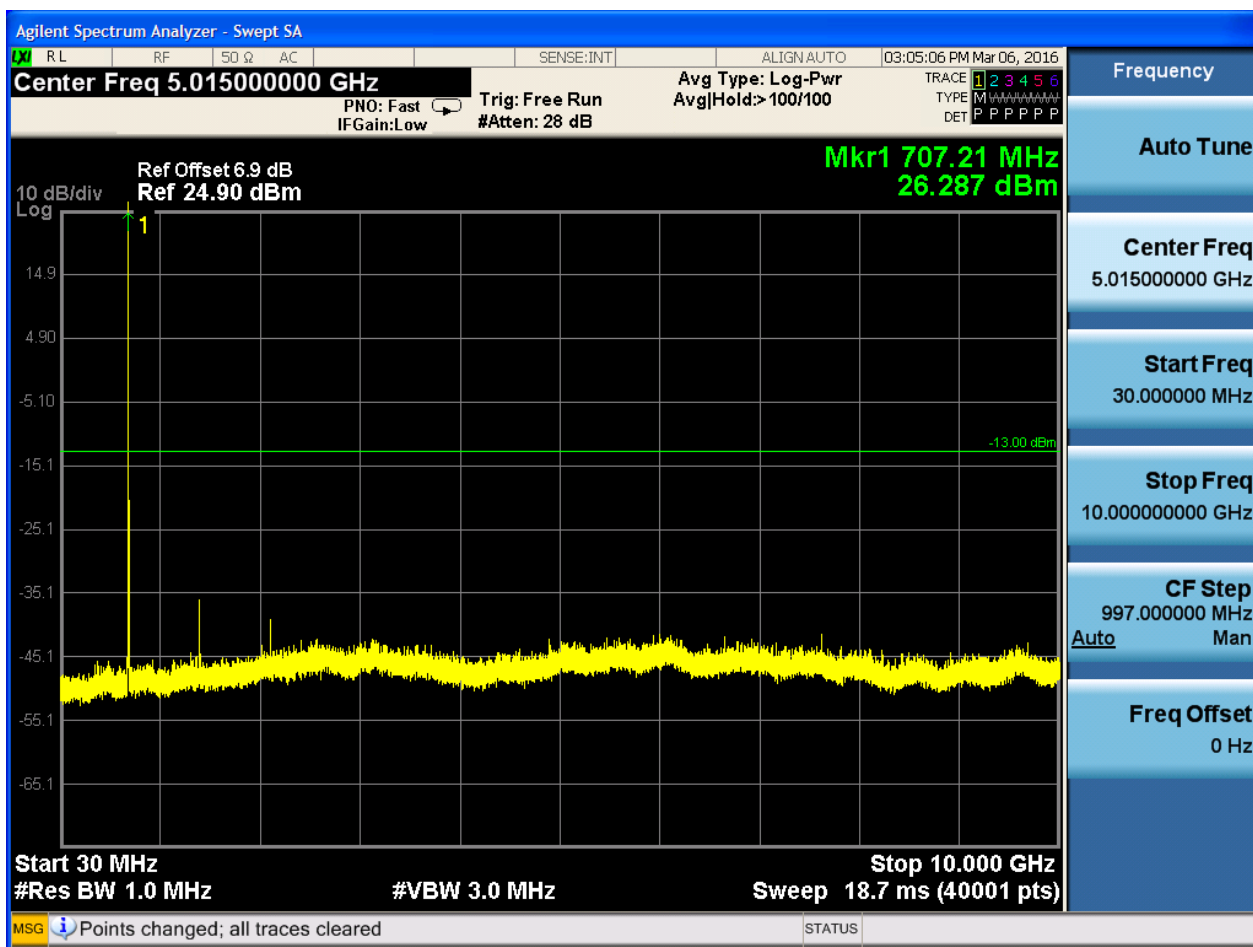


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



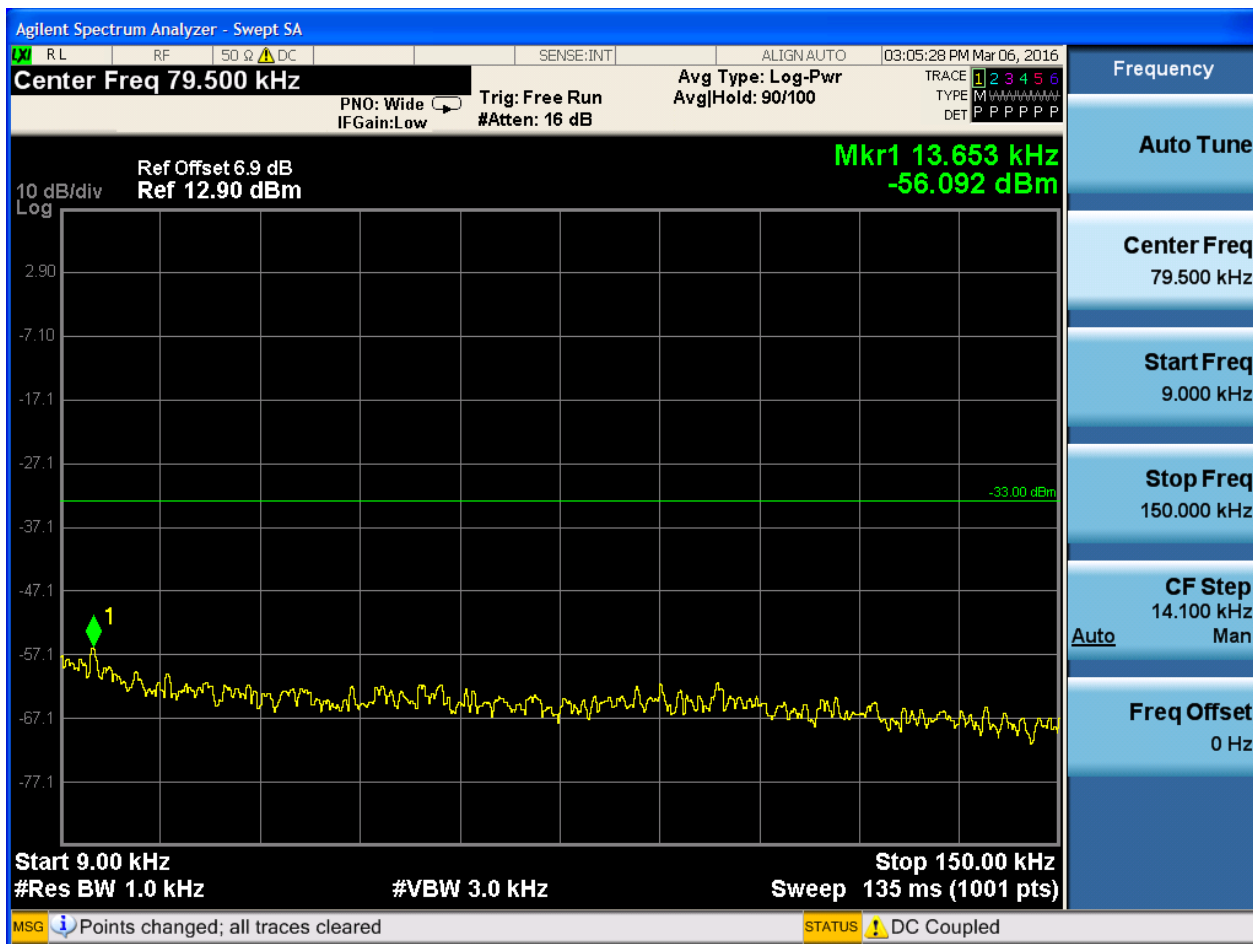


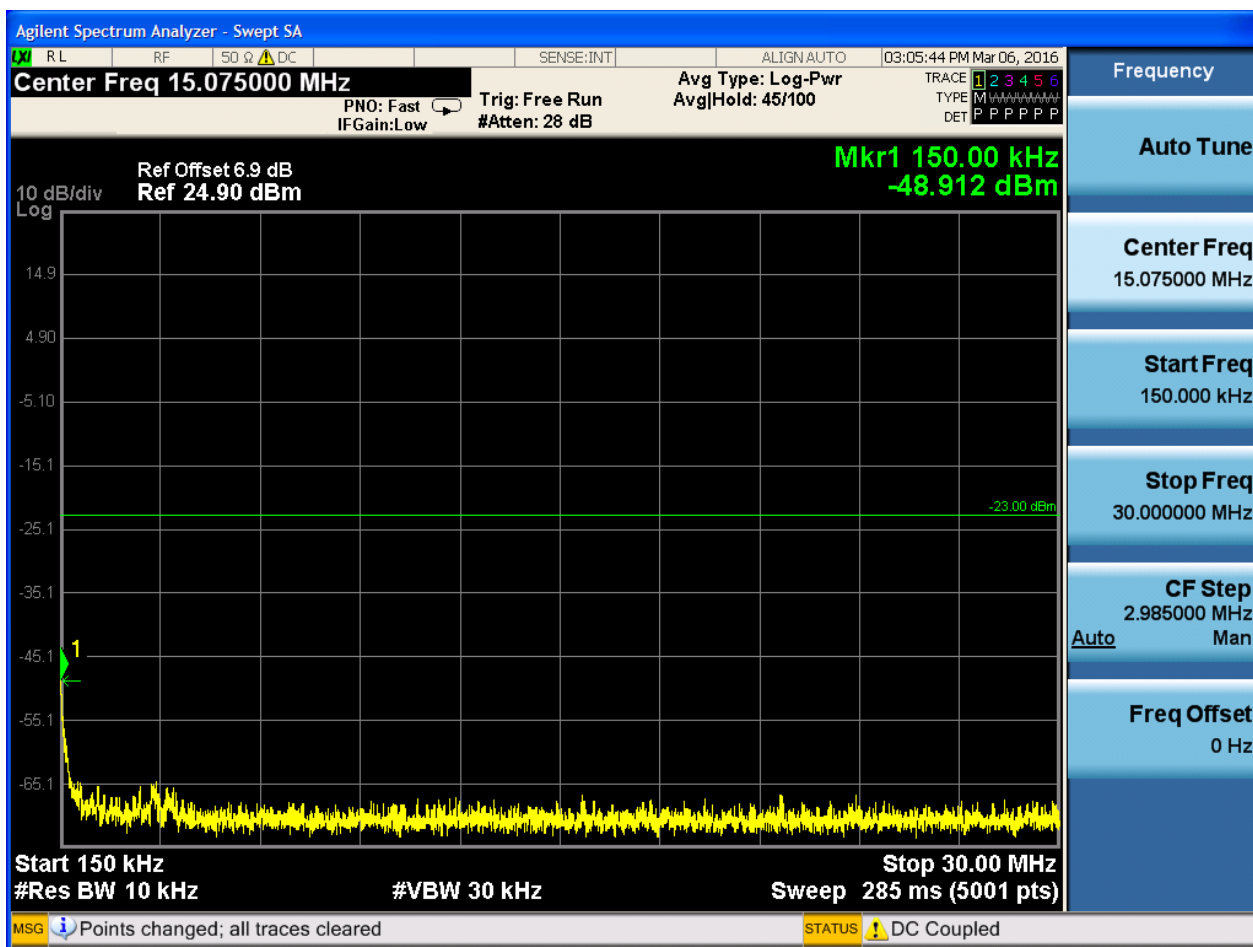


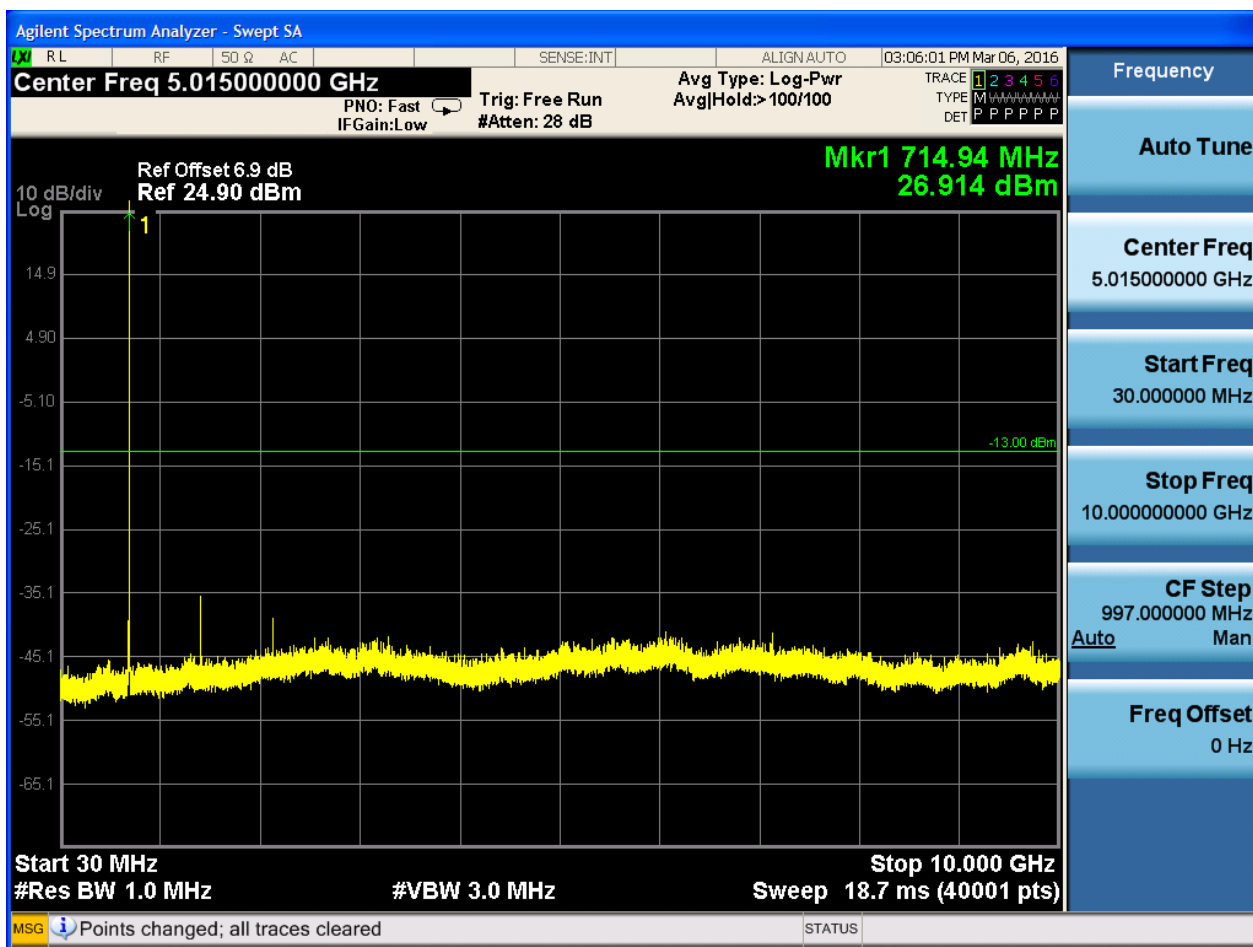


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



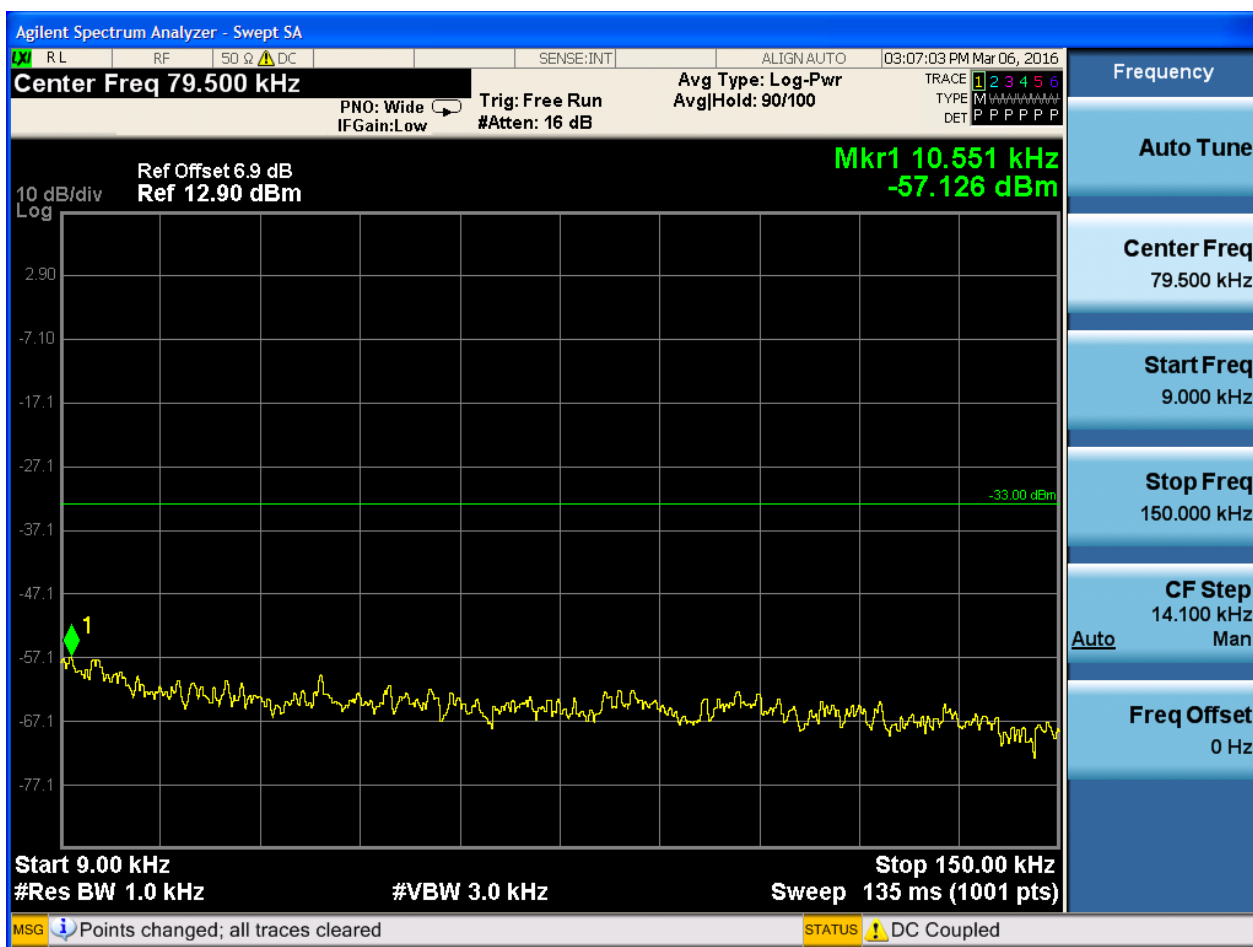


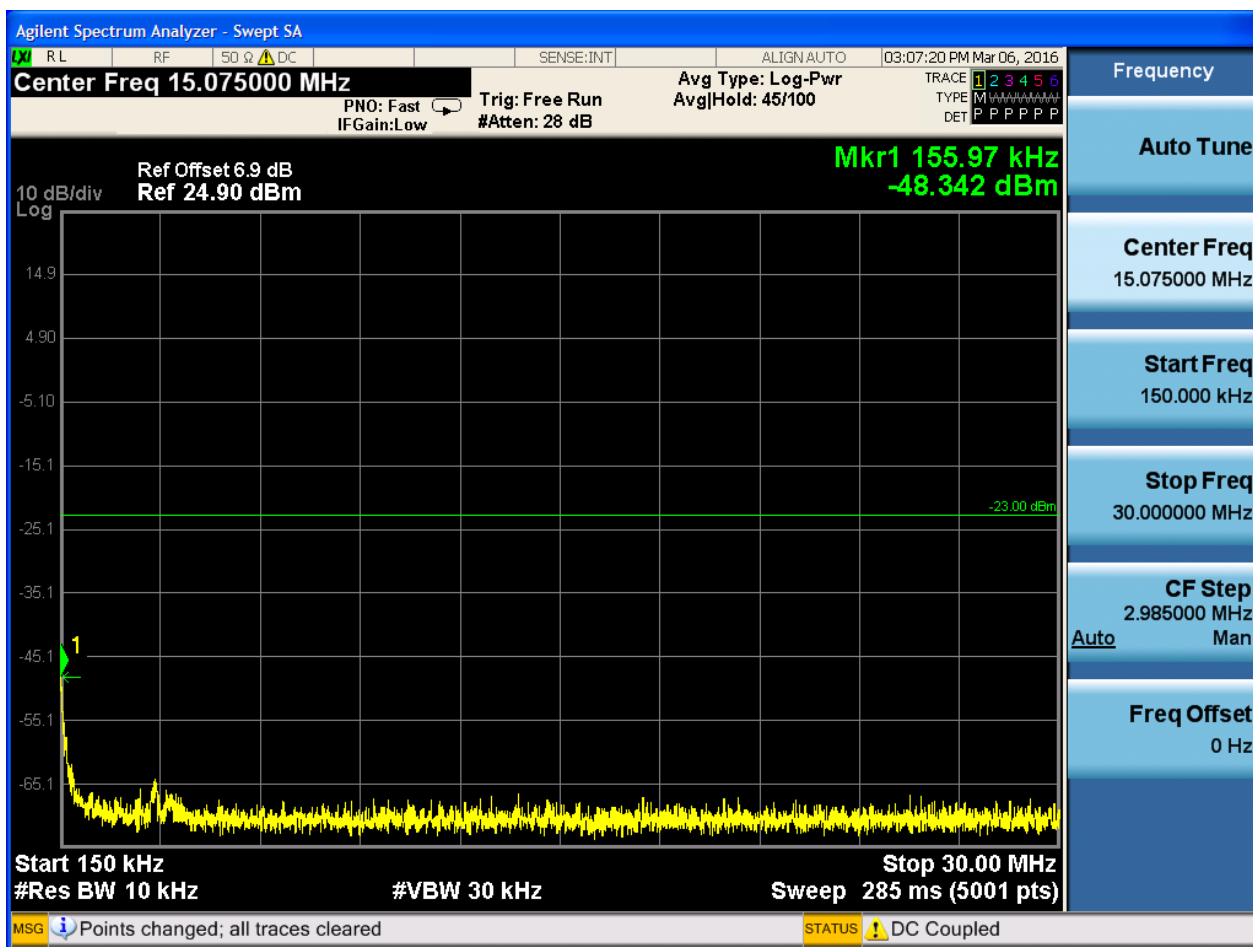


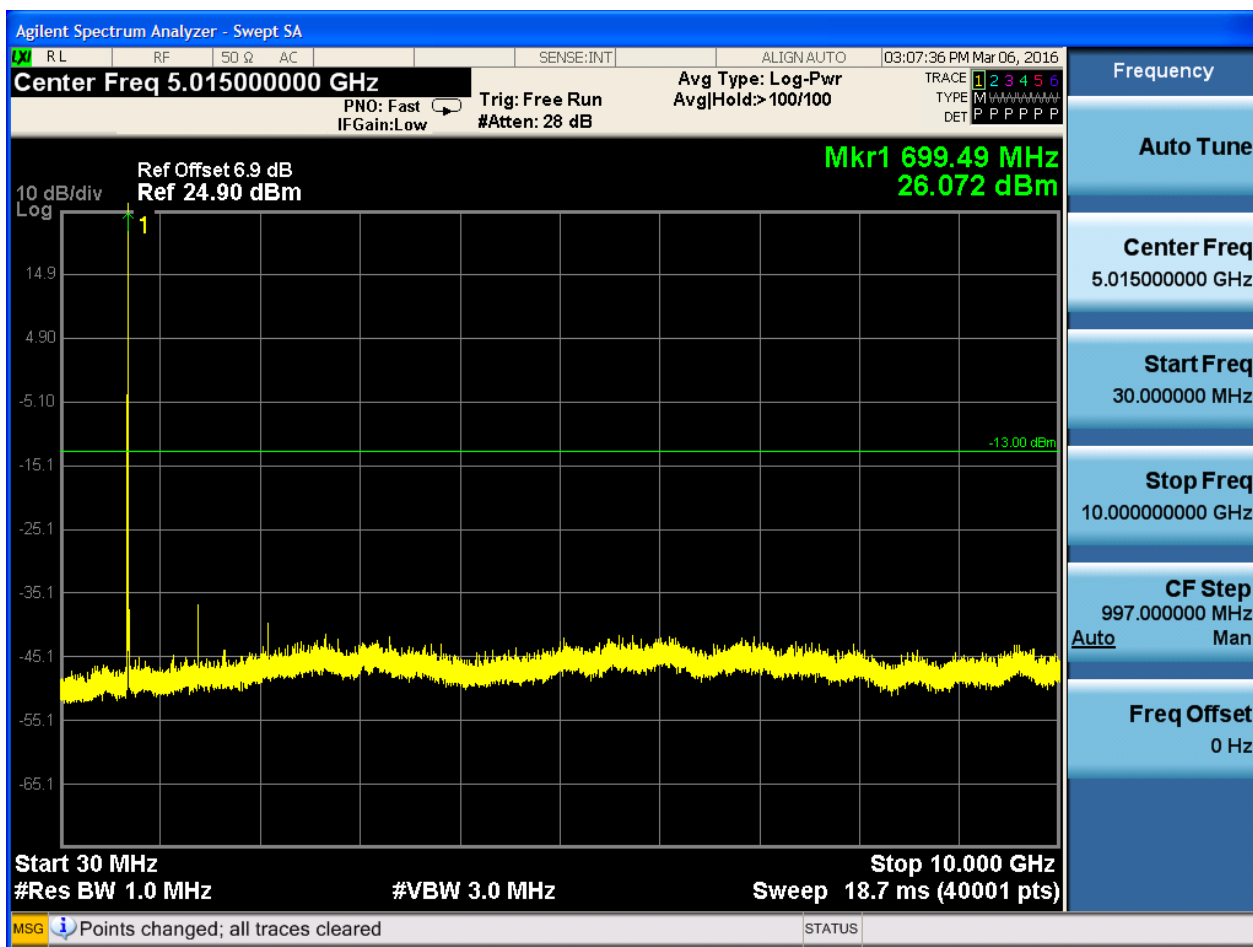
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



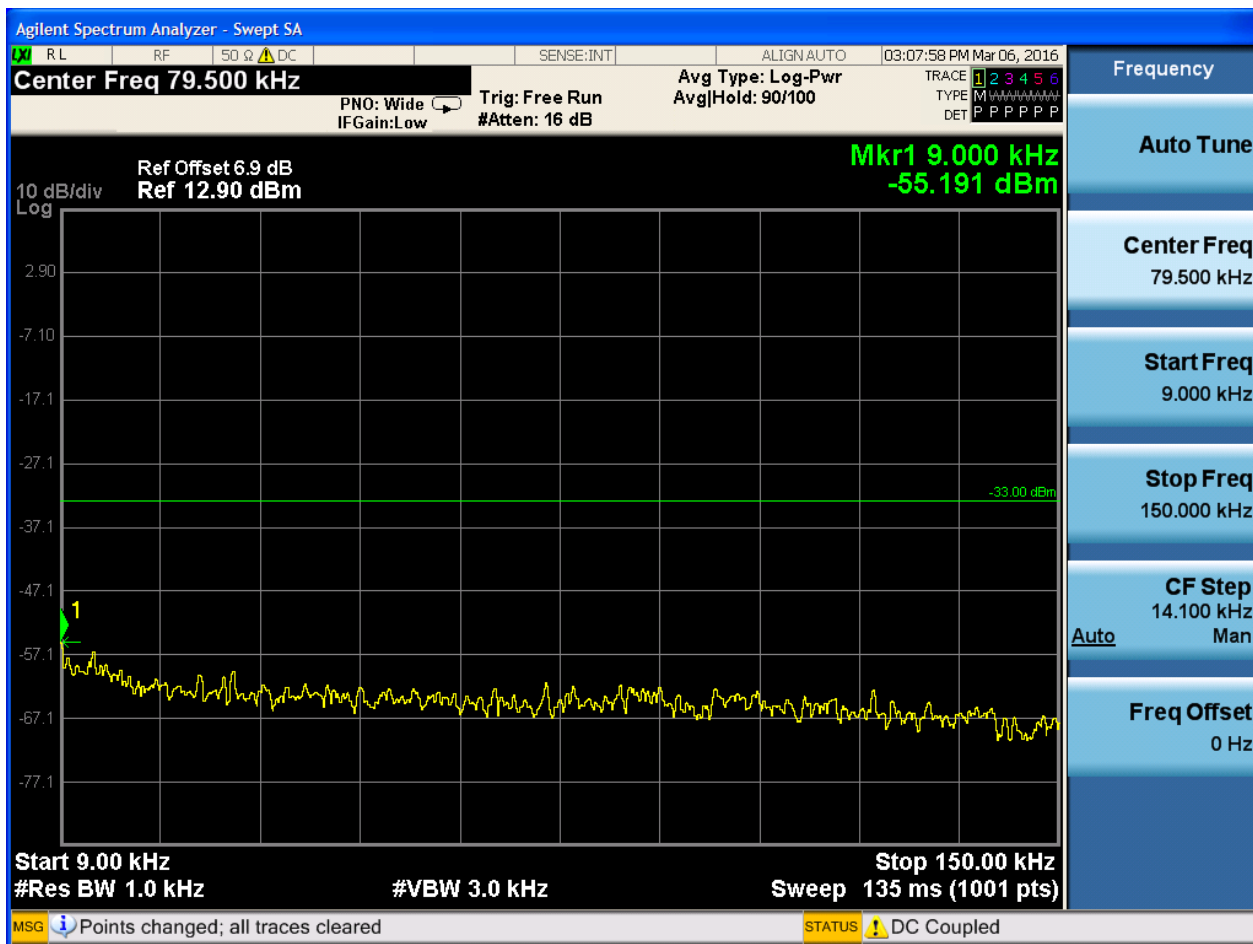


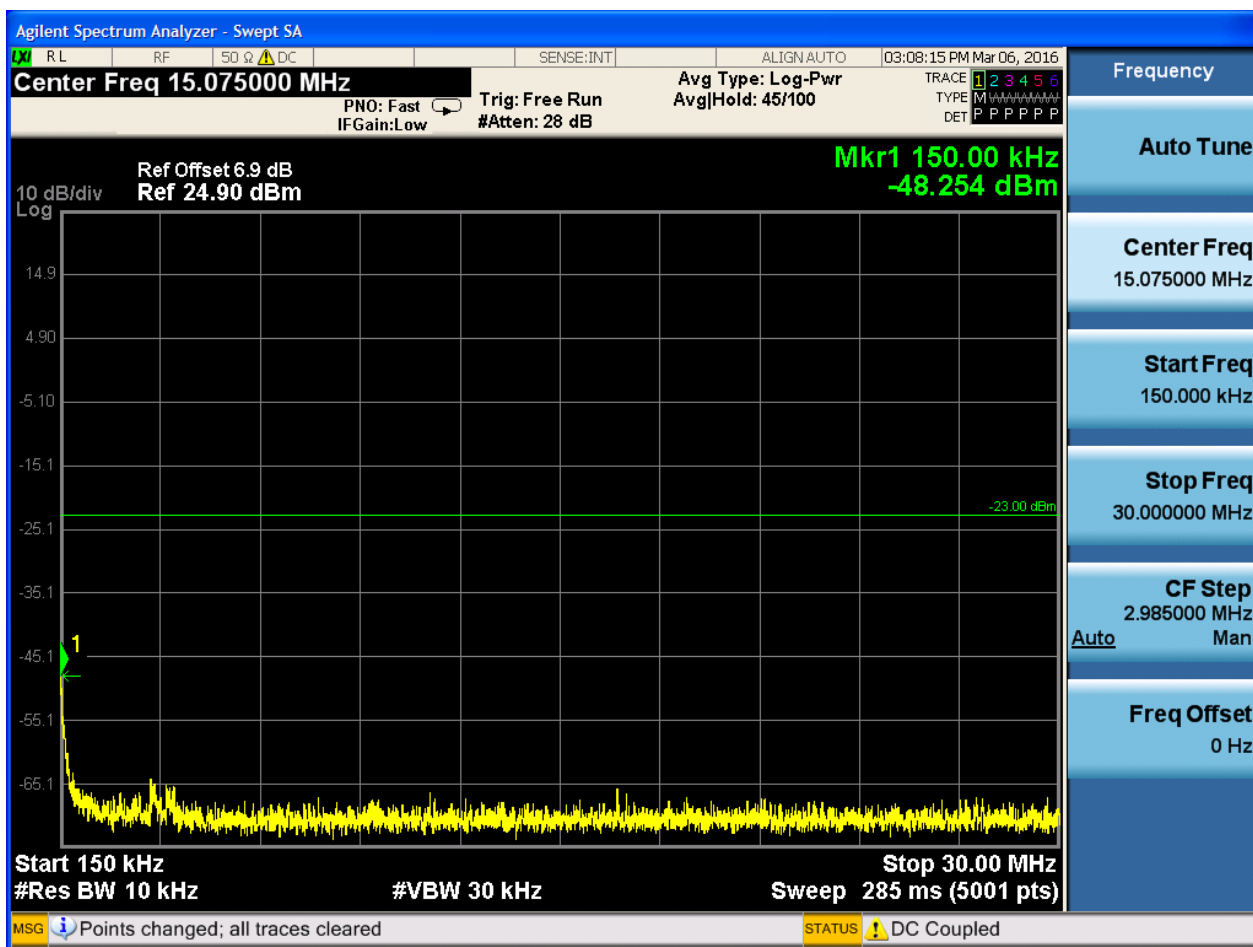


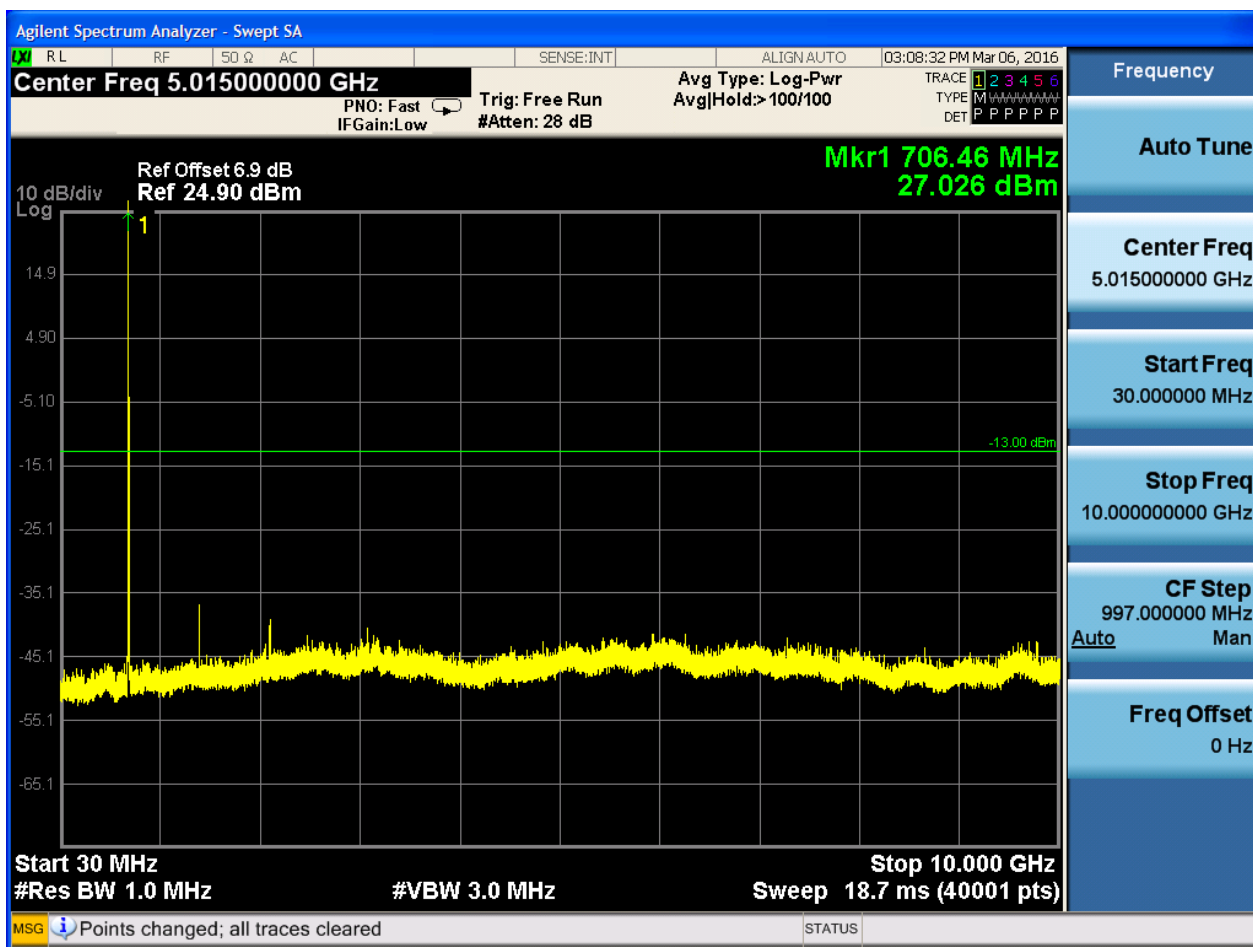


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



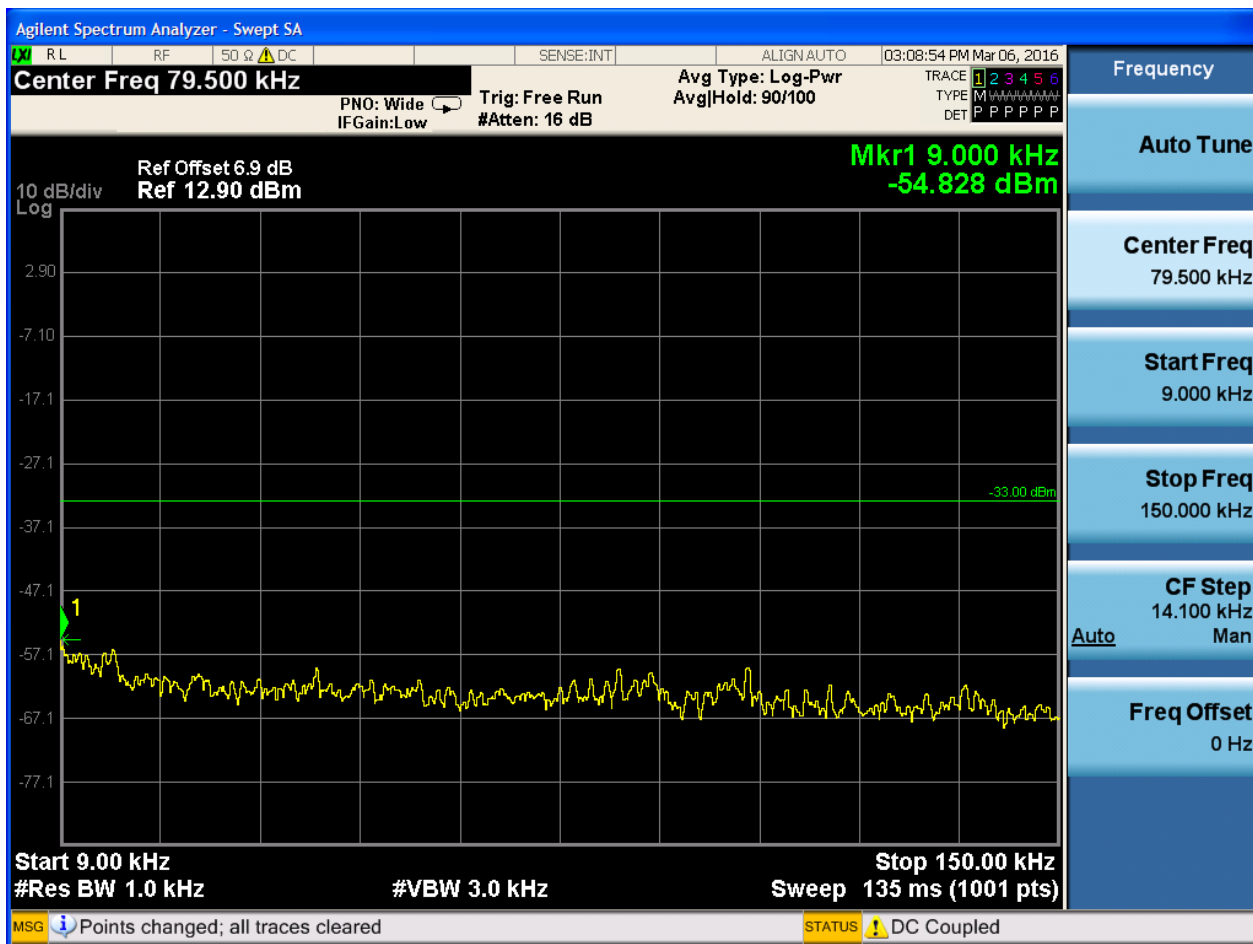




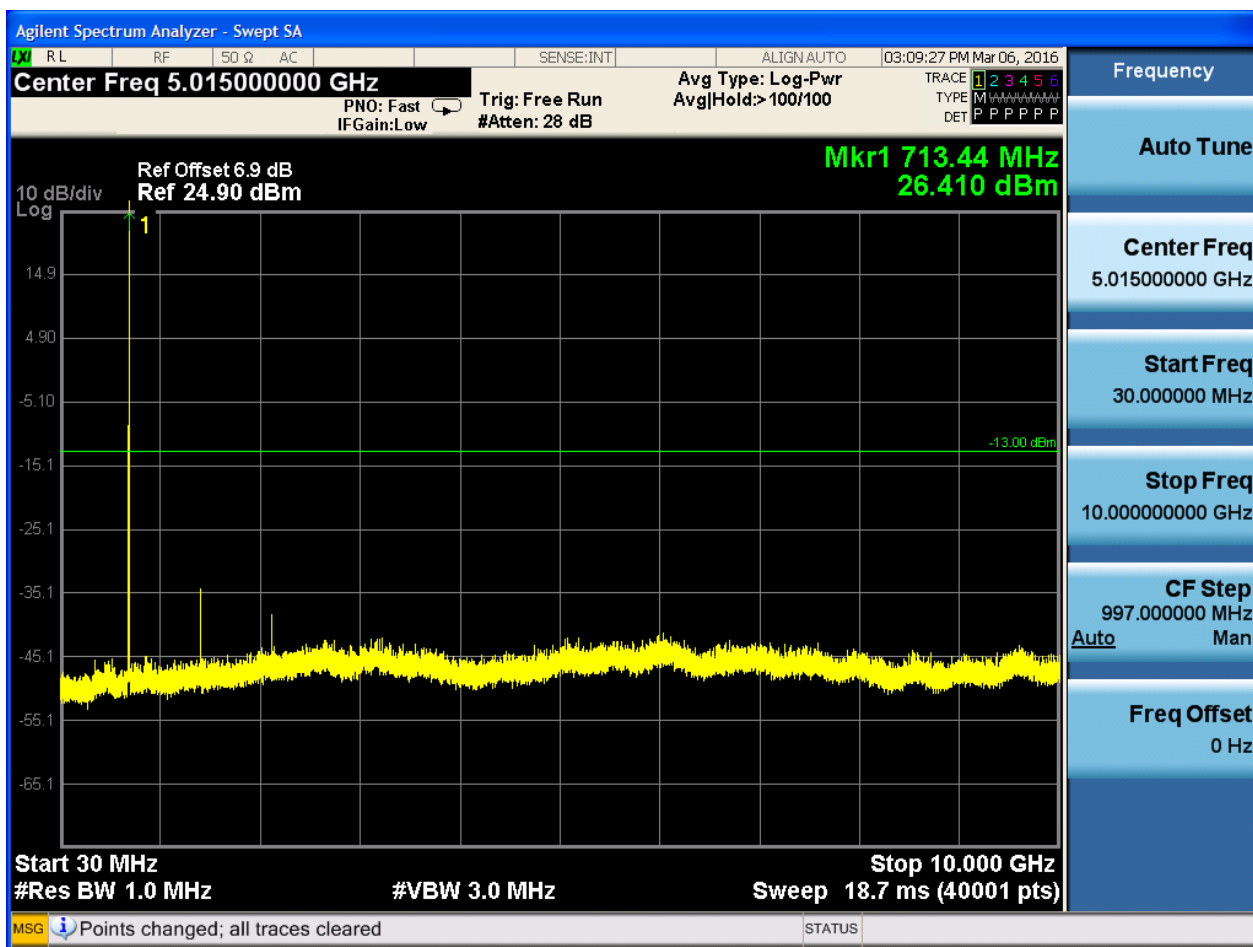


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





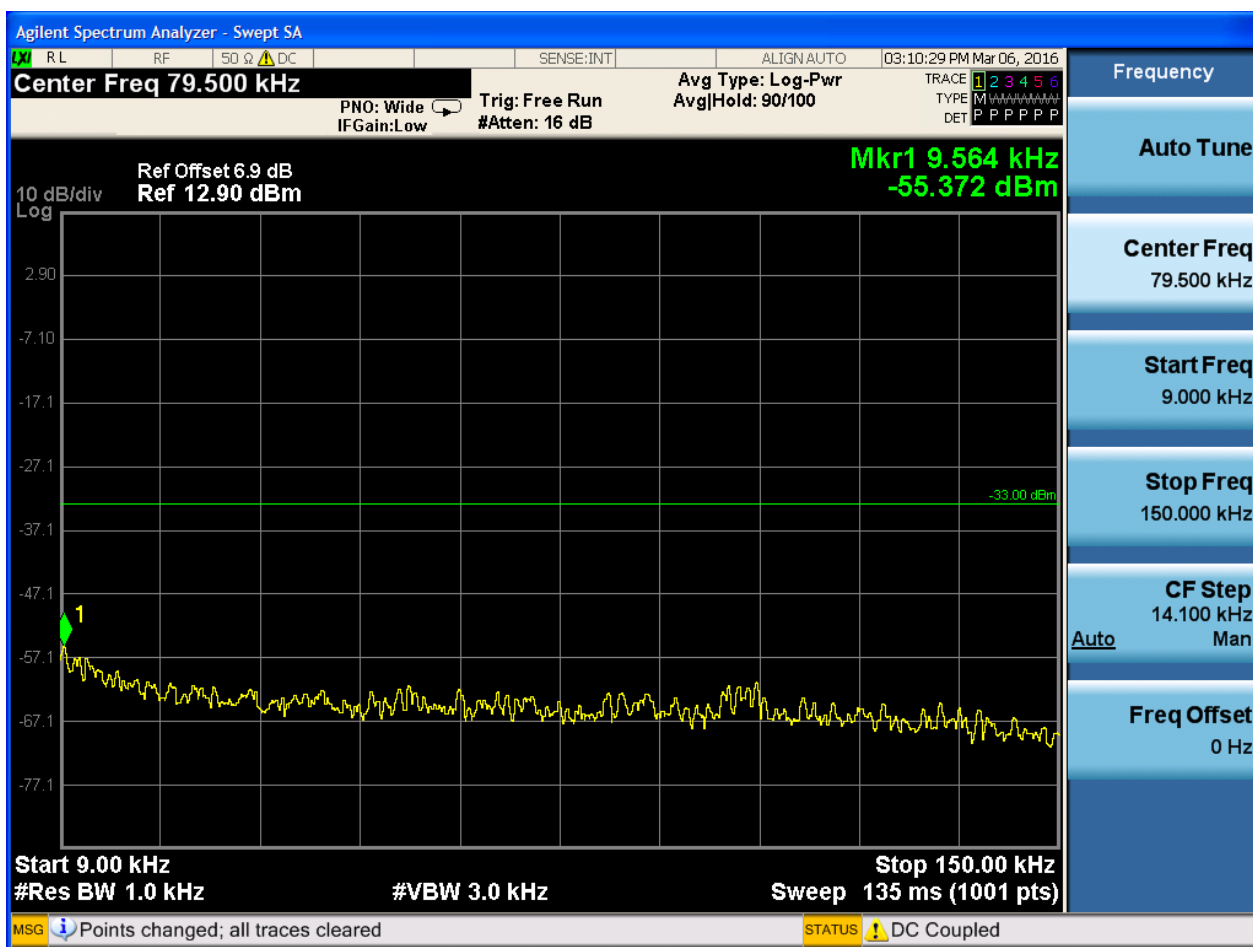


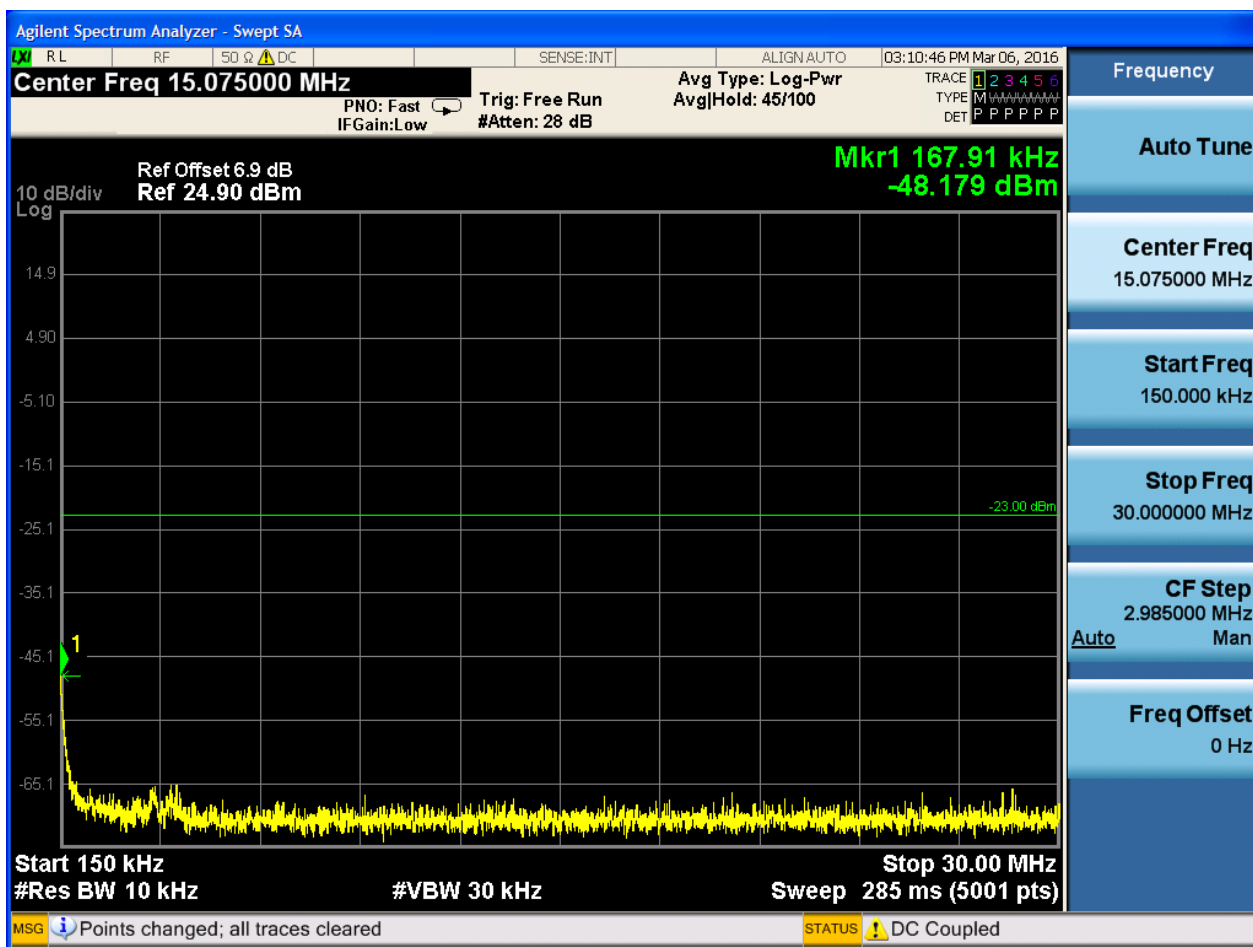


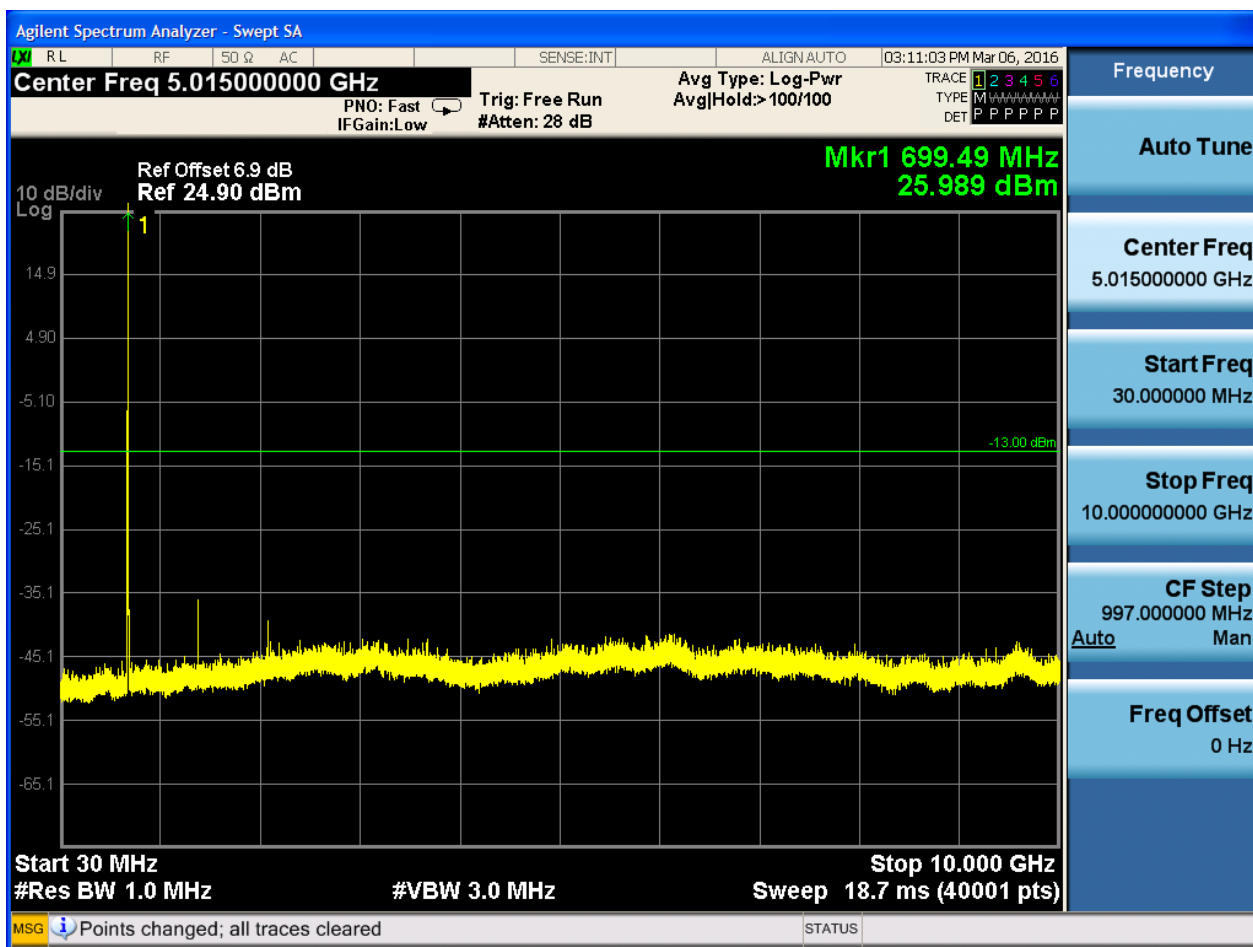
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



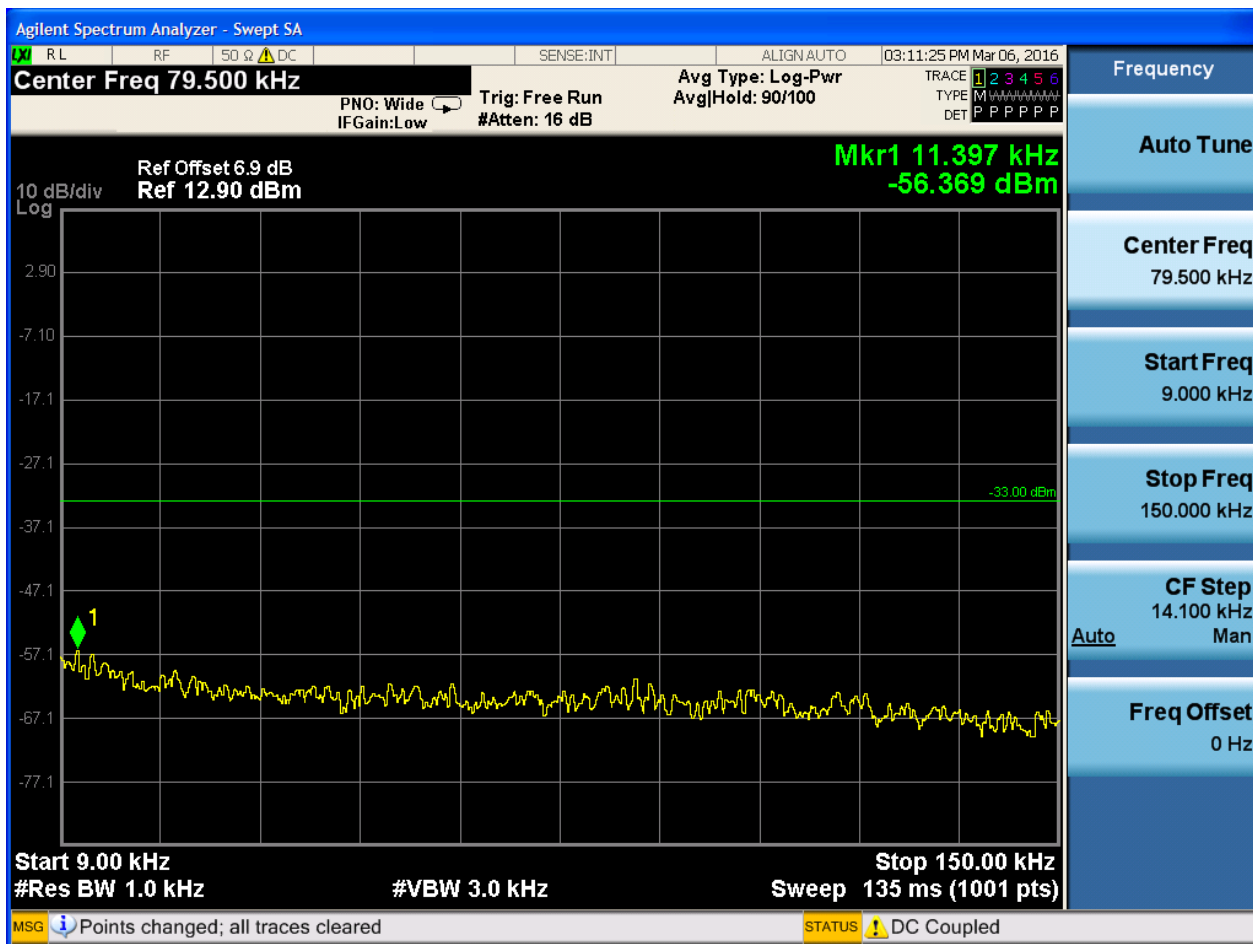


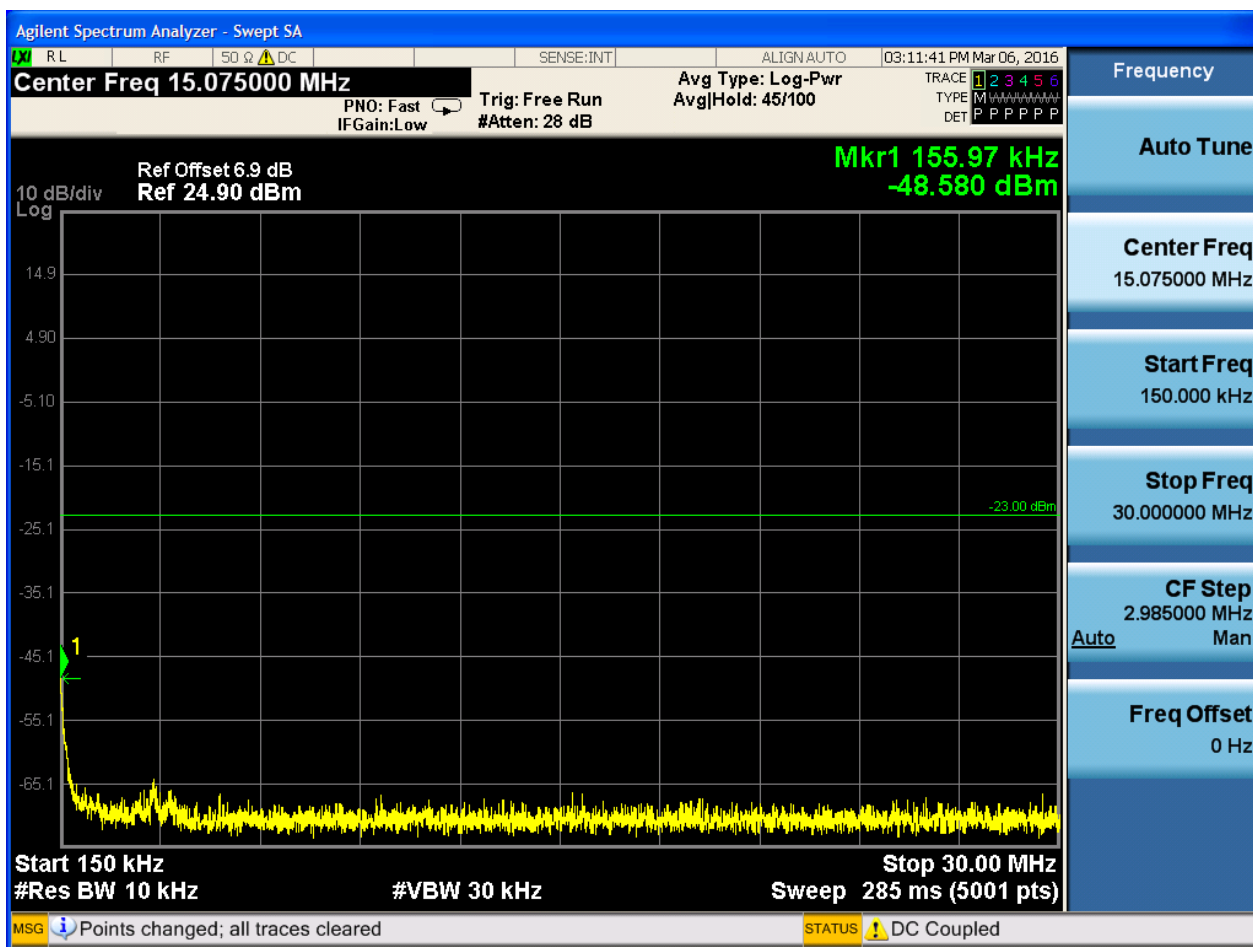


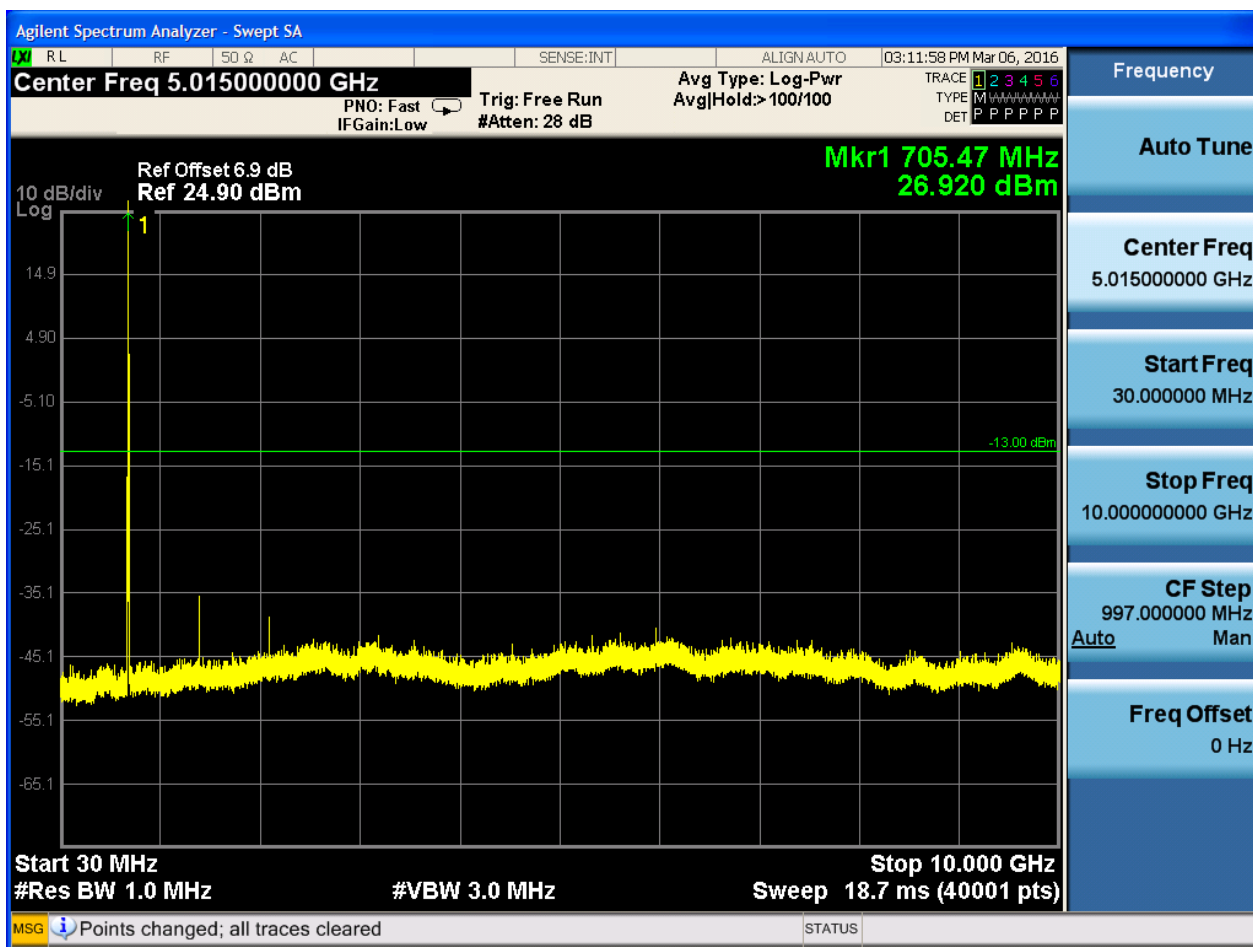


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



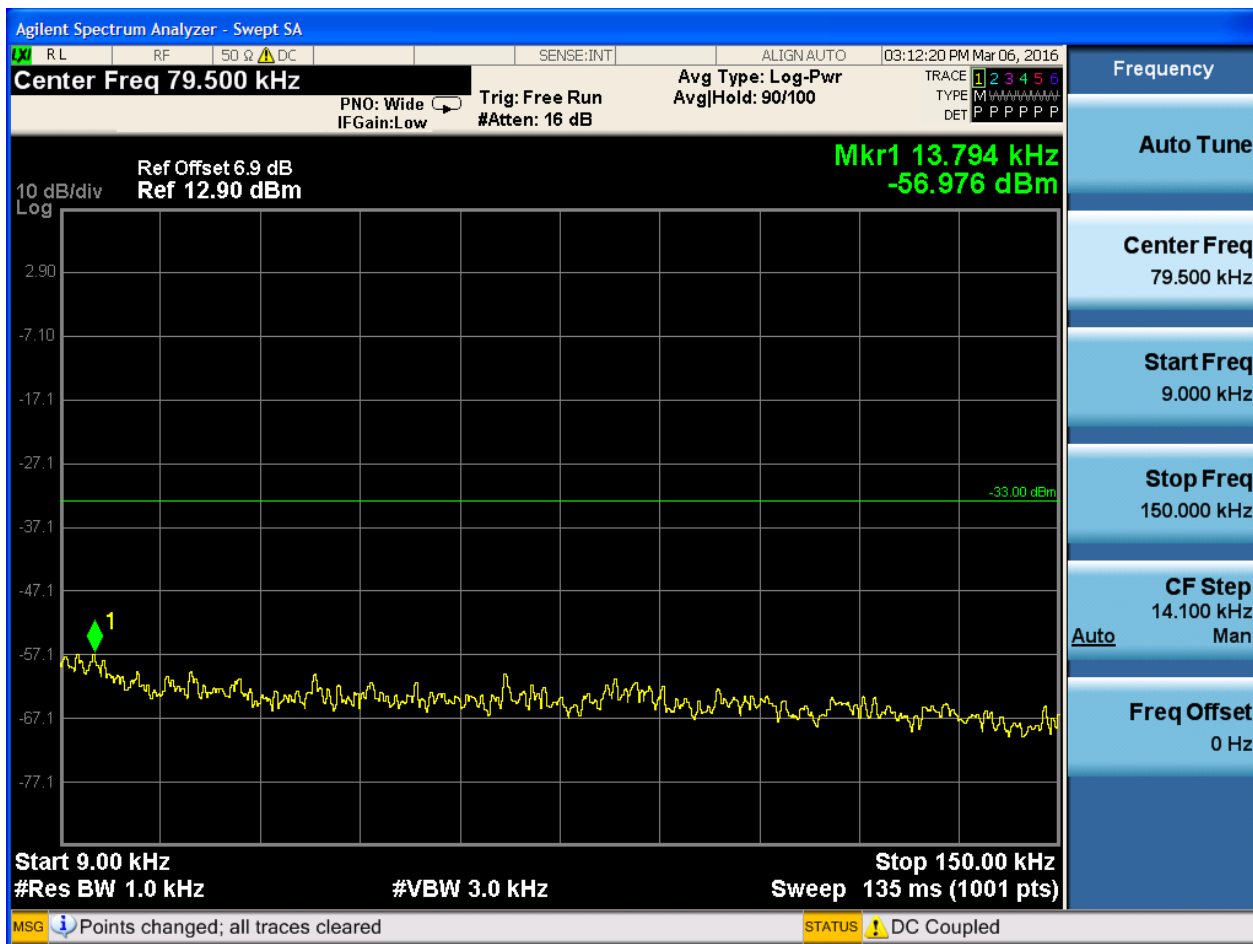


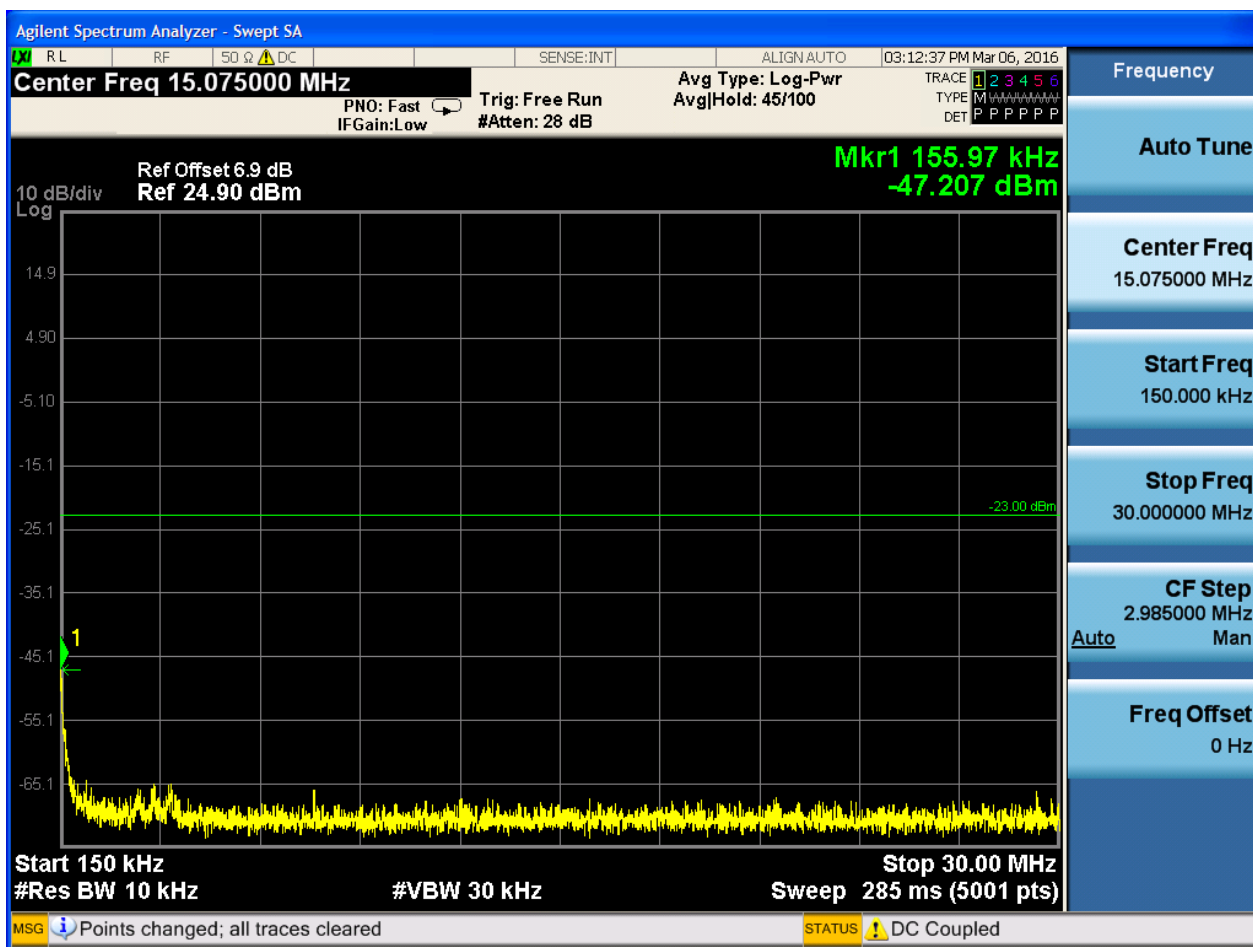


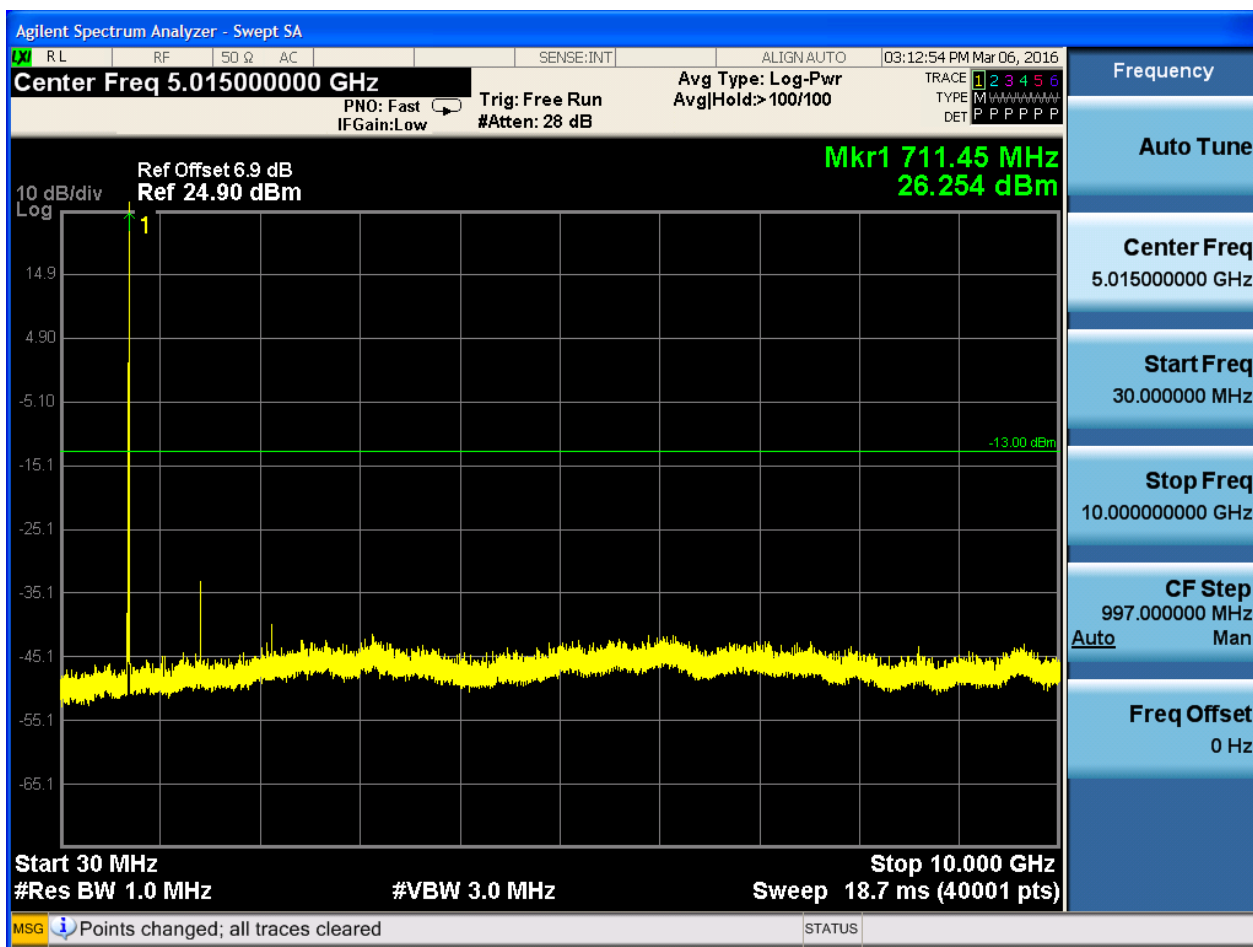


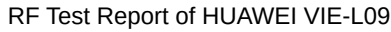
6.1.1.2.3.3 Test Channel = HCH

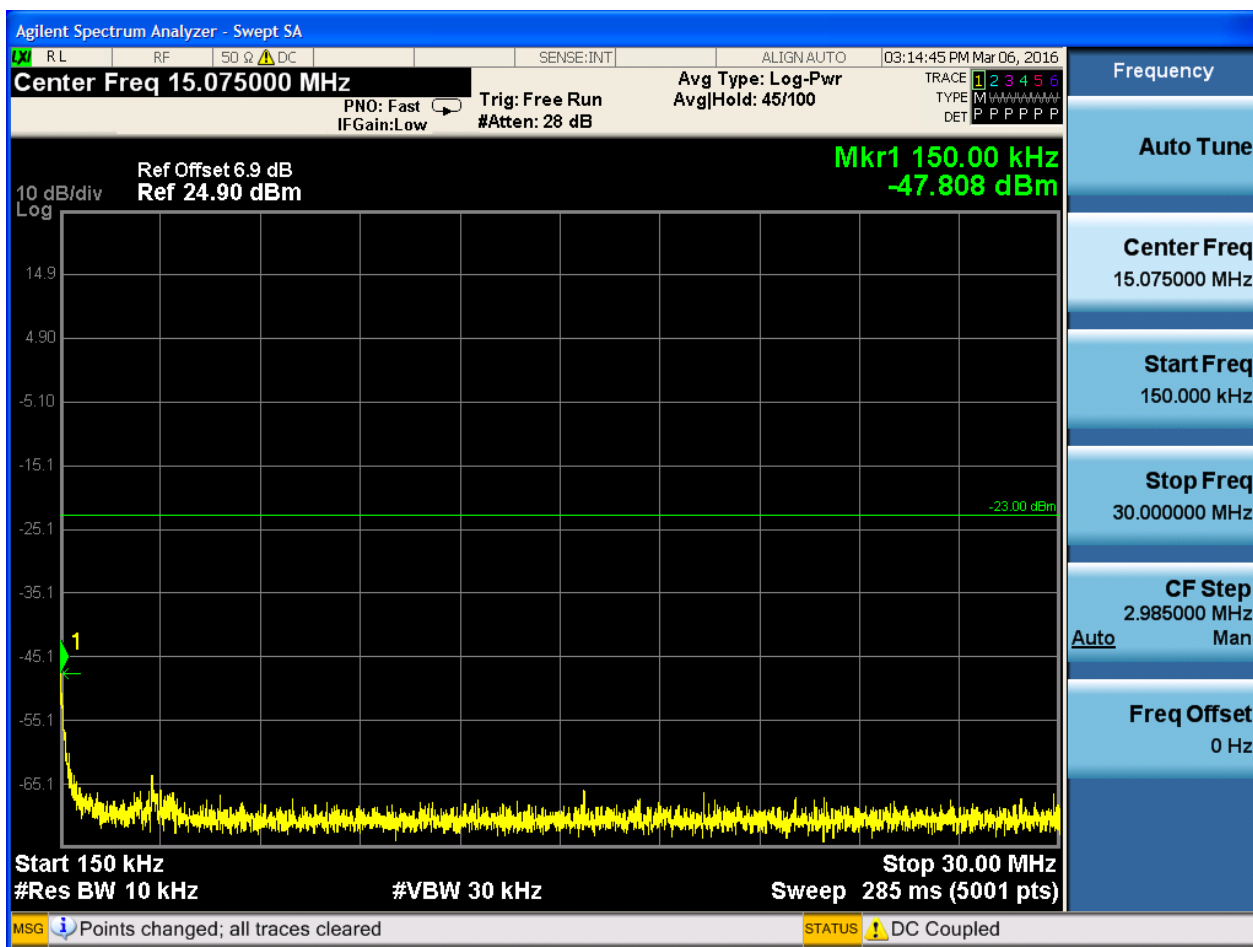
6.1.1.2.3.3.1 Test RB = RB1#0

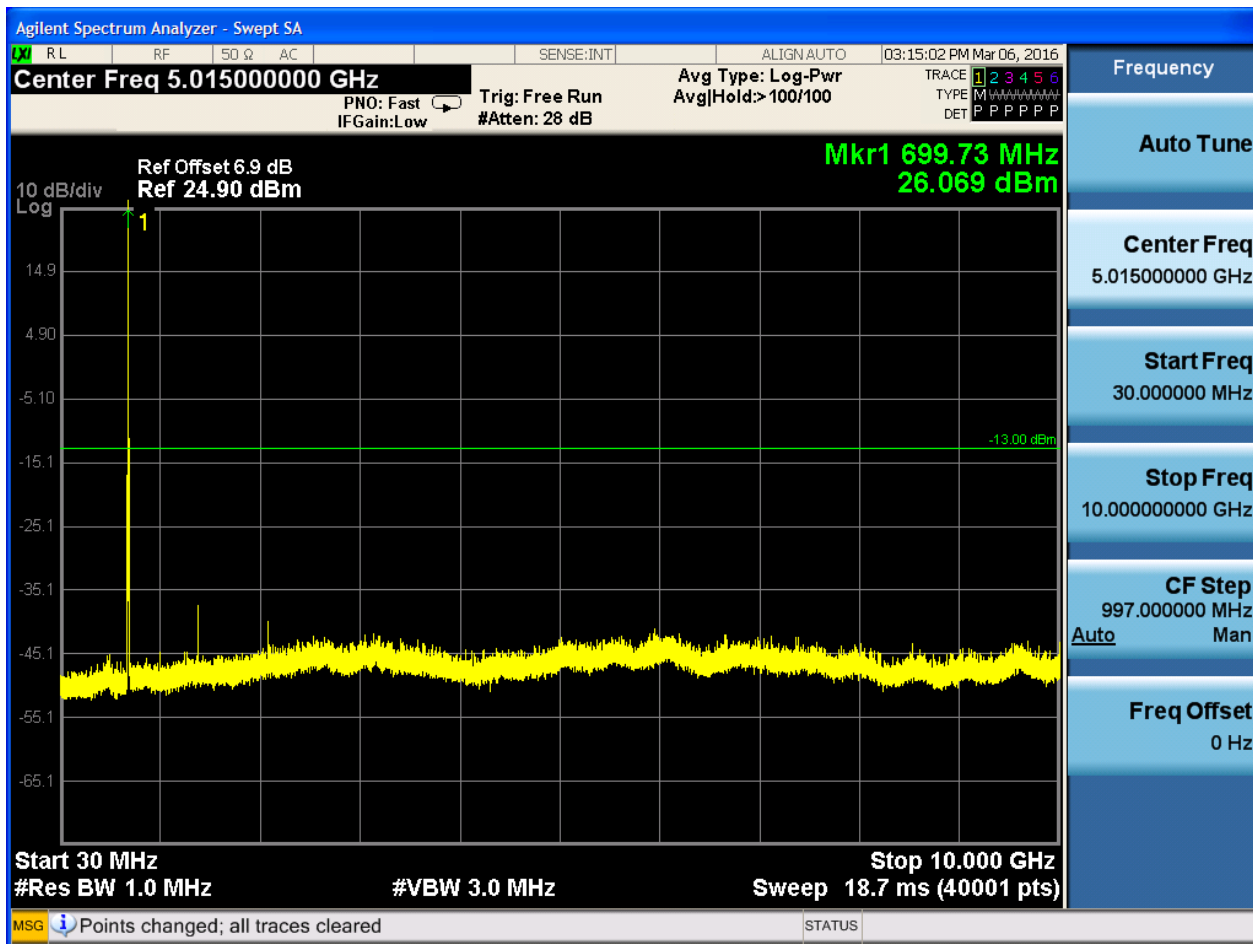








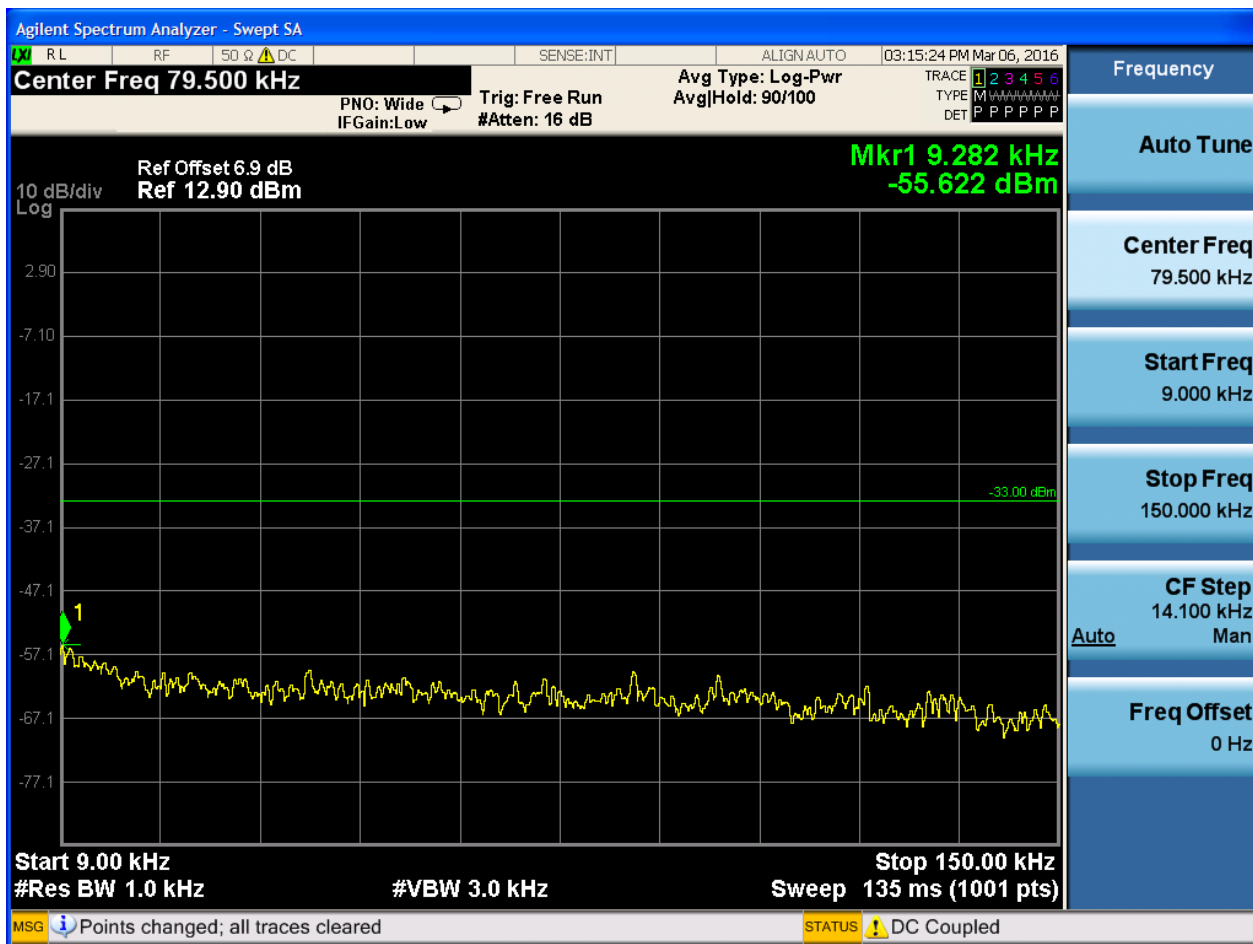


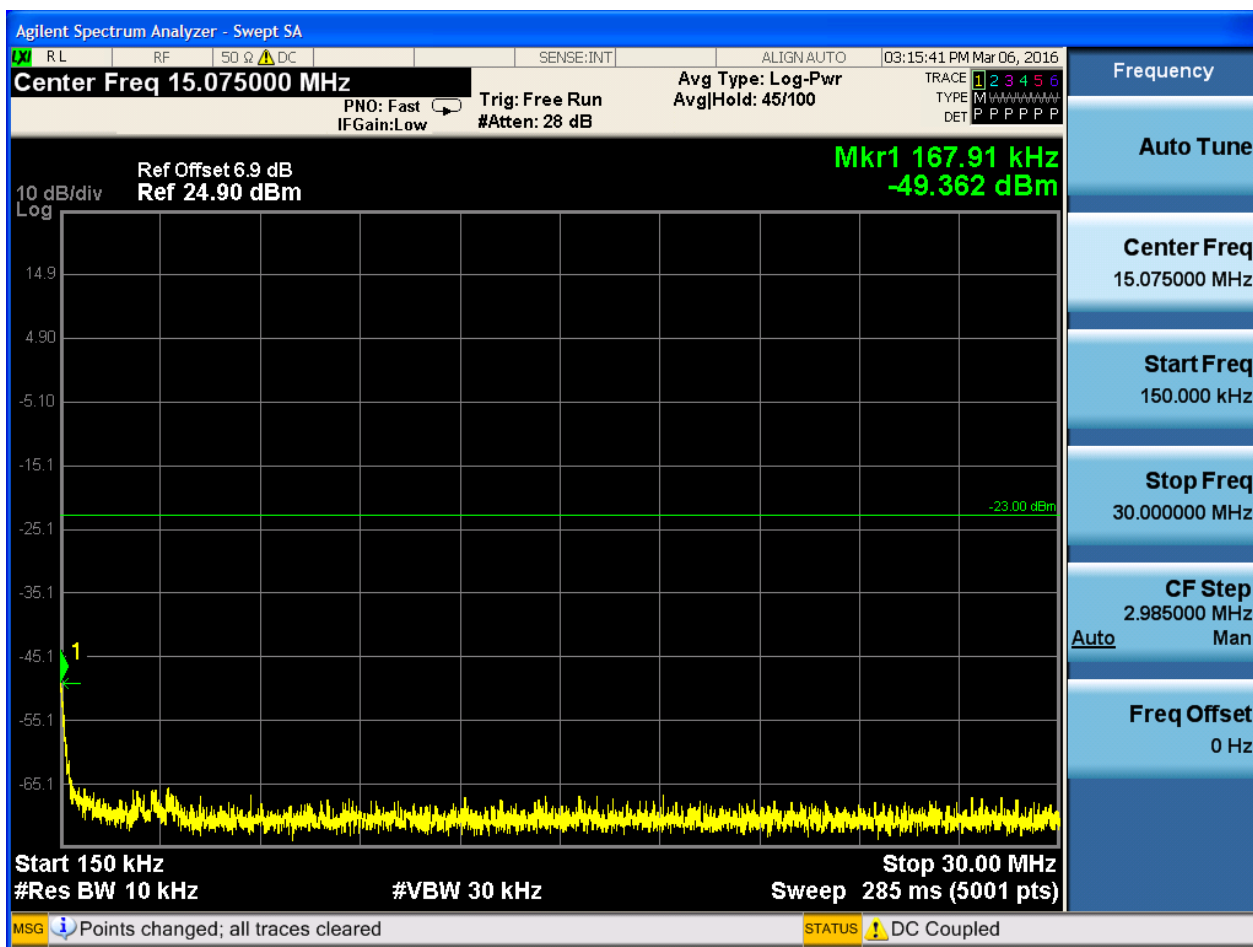


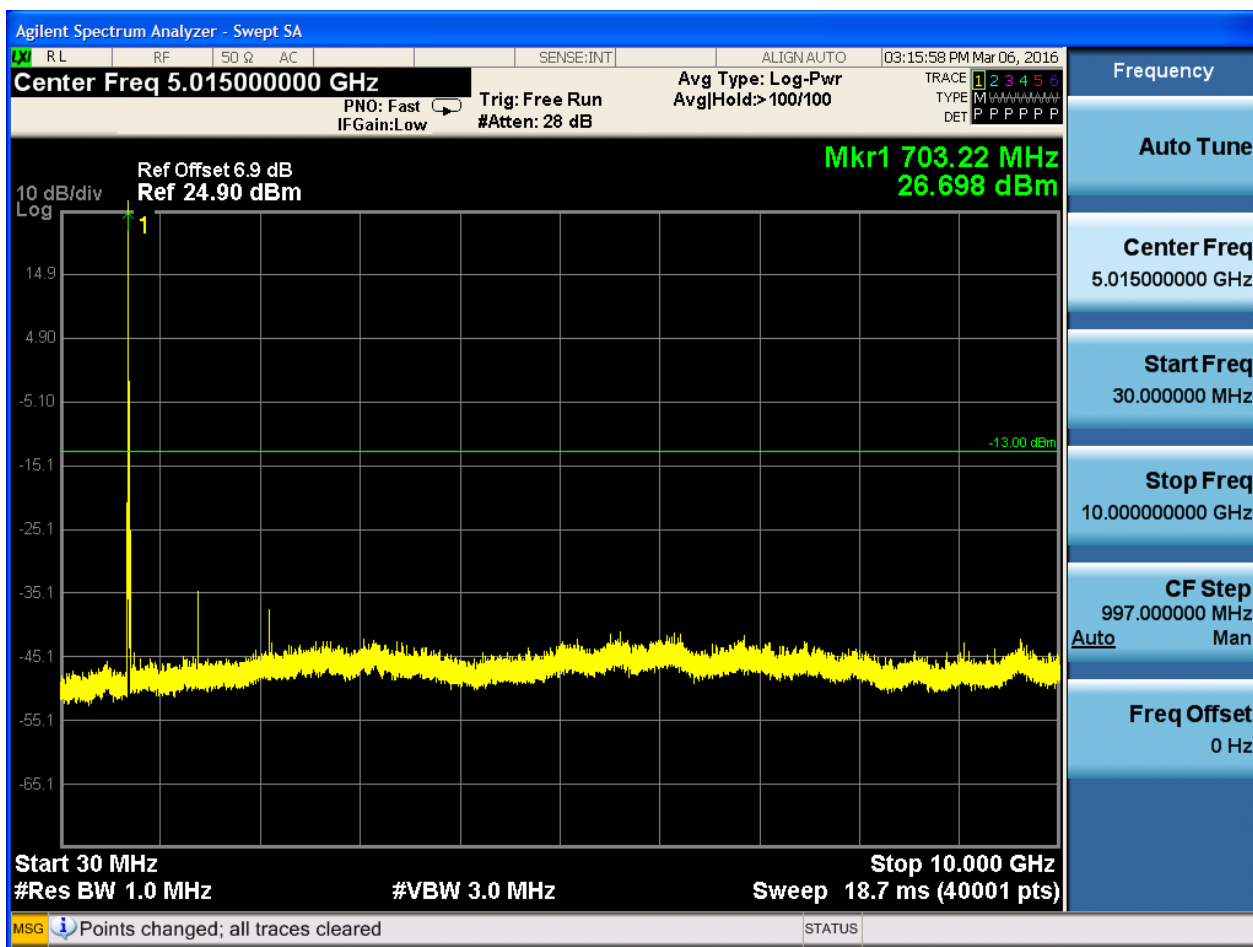


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



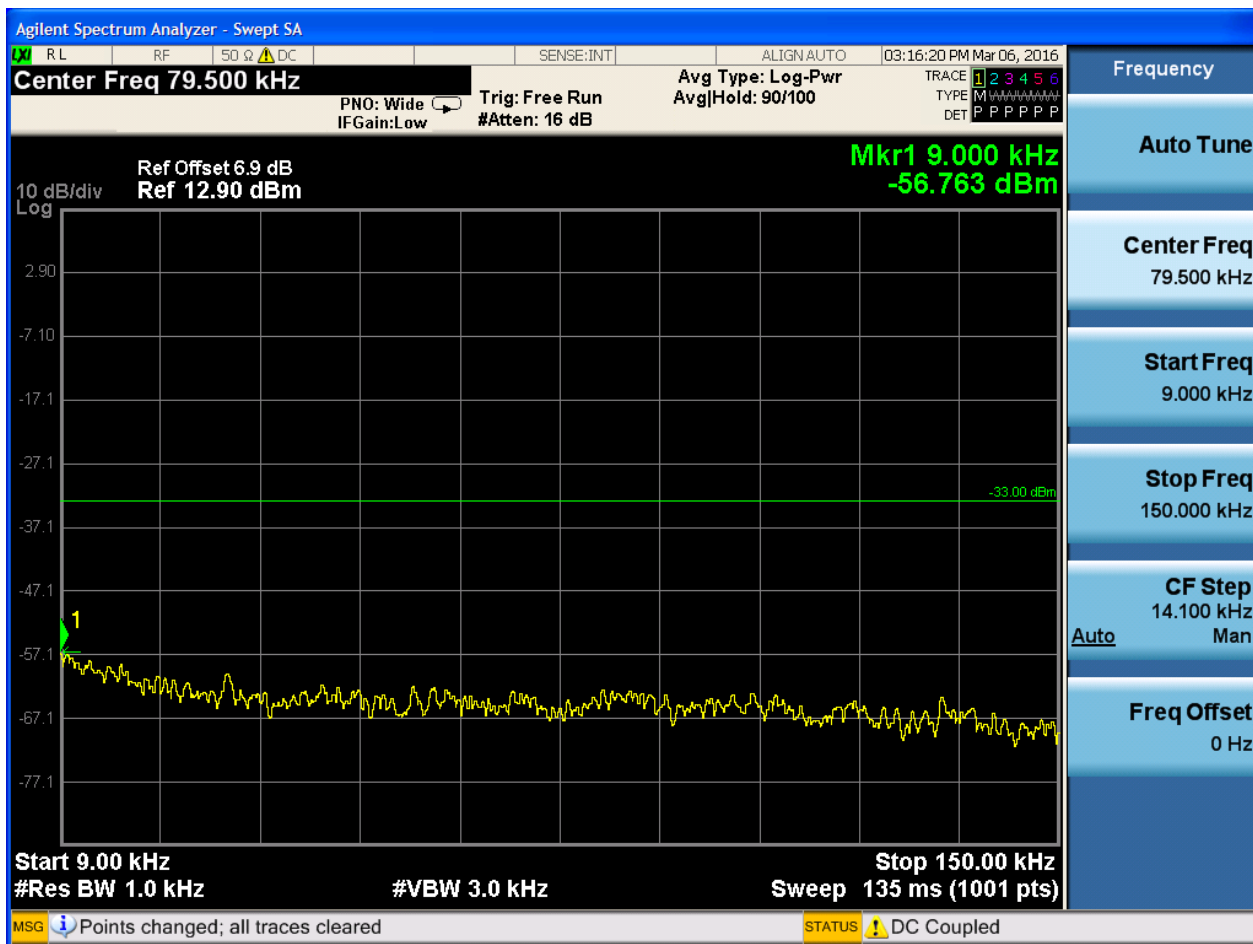


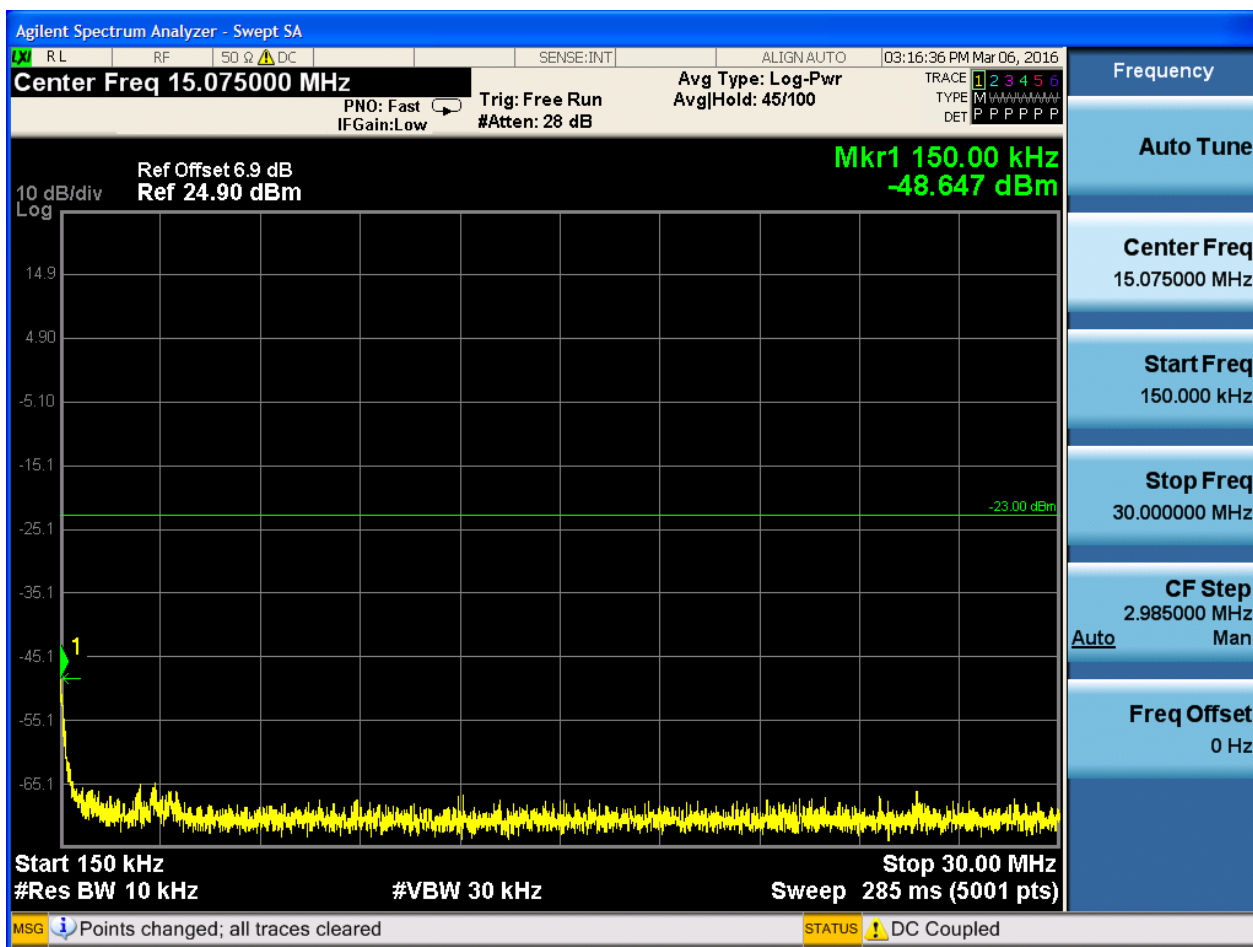


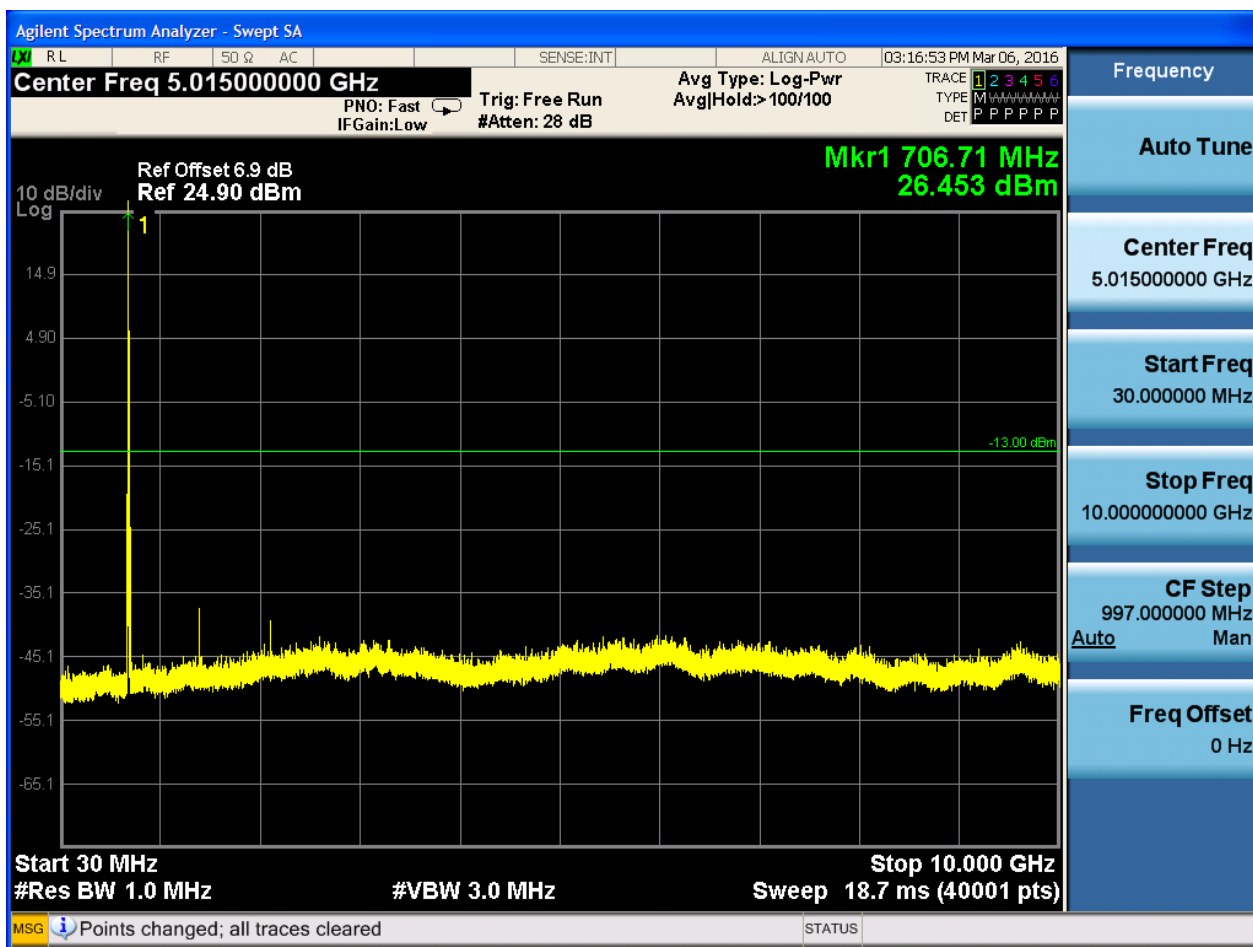


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: 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

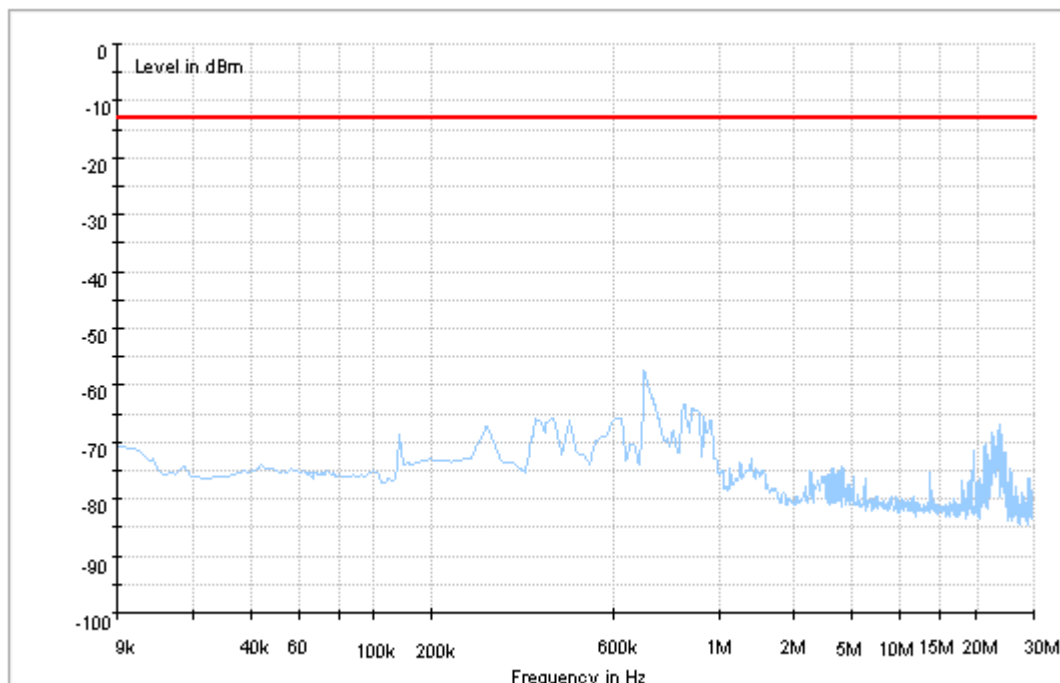
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

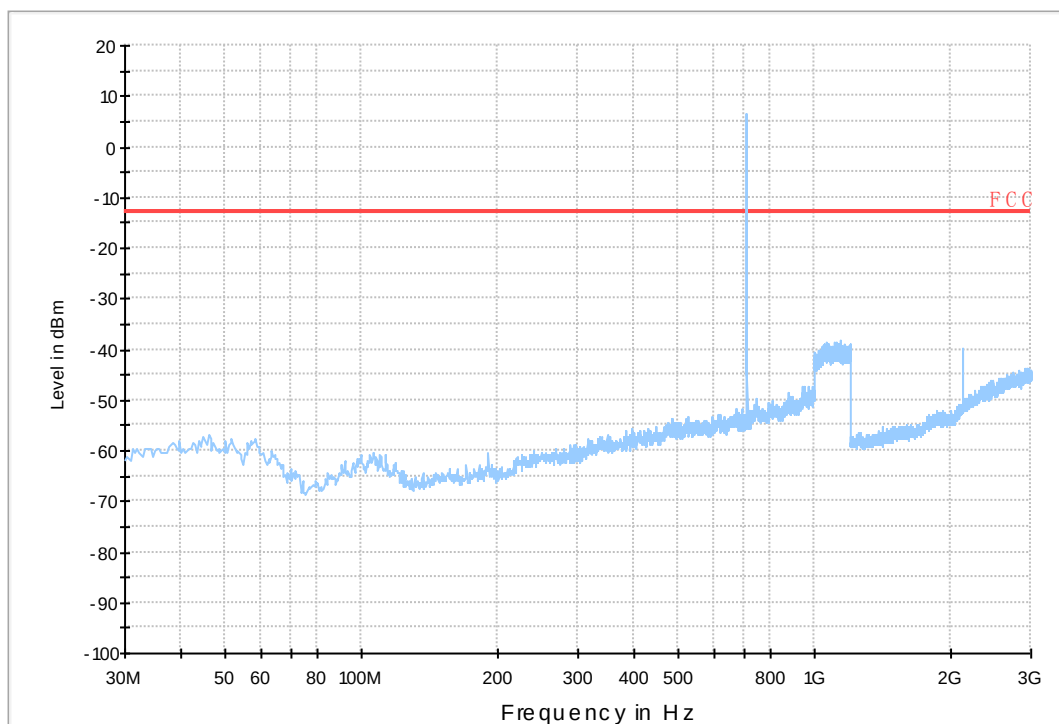
7.1 For LTE

7.1.1 Test Band = BAND12

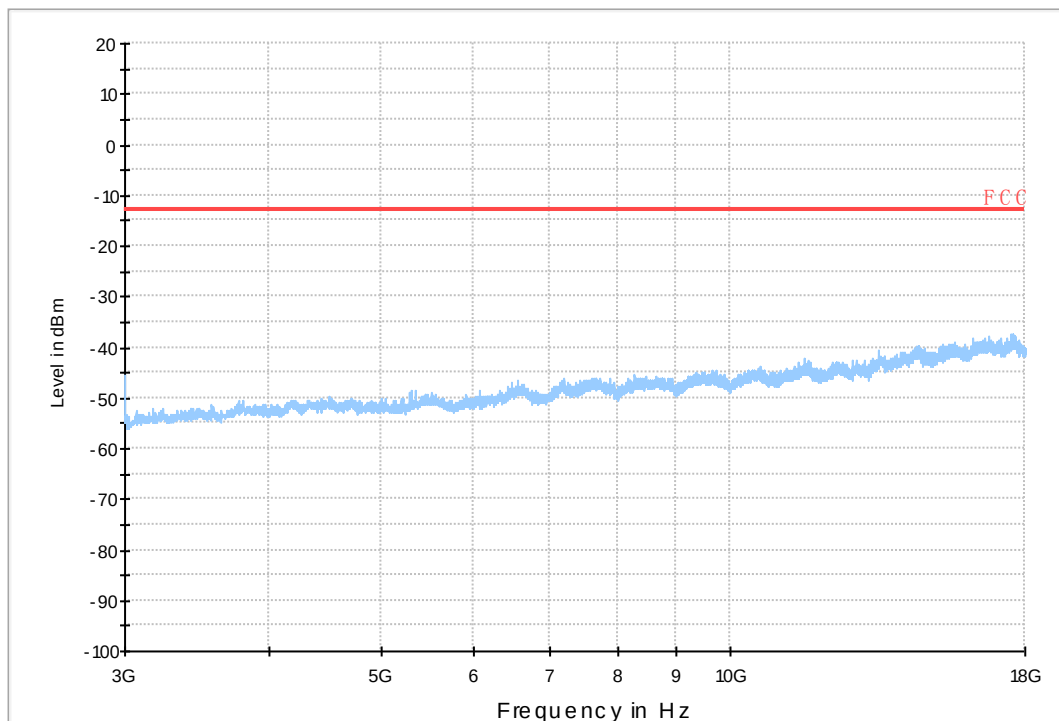
7.1.1.1 Test Bandwidth = 1.4



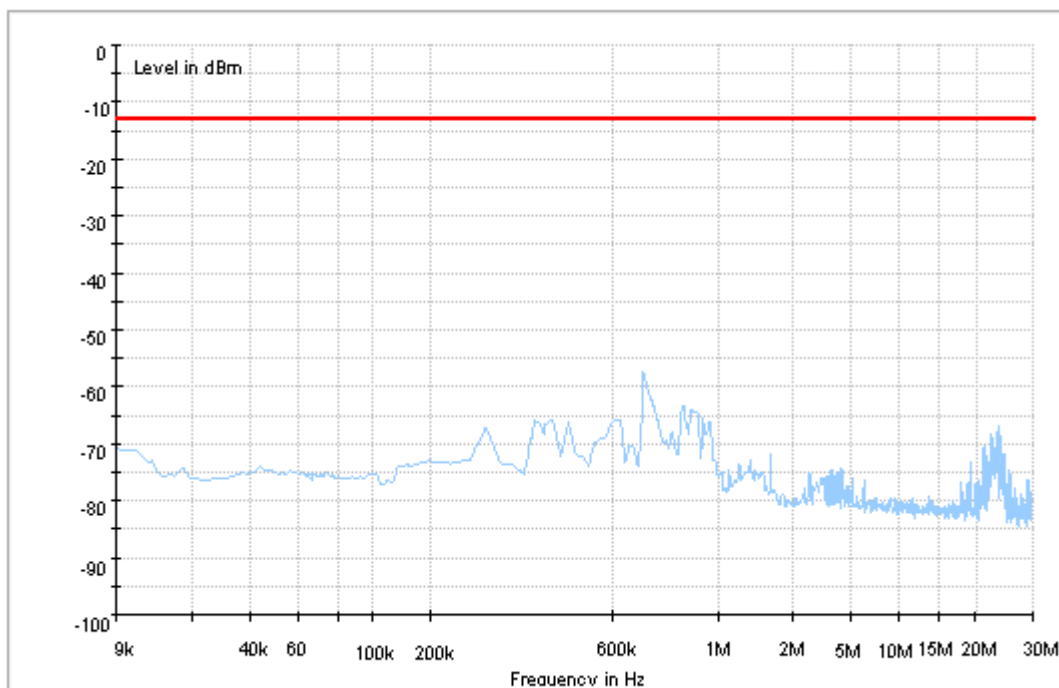
Copy of RSE-TX-DIRECTOR BELOW 1G_L



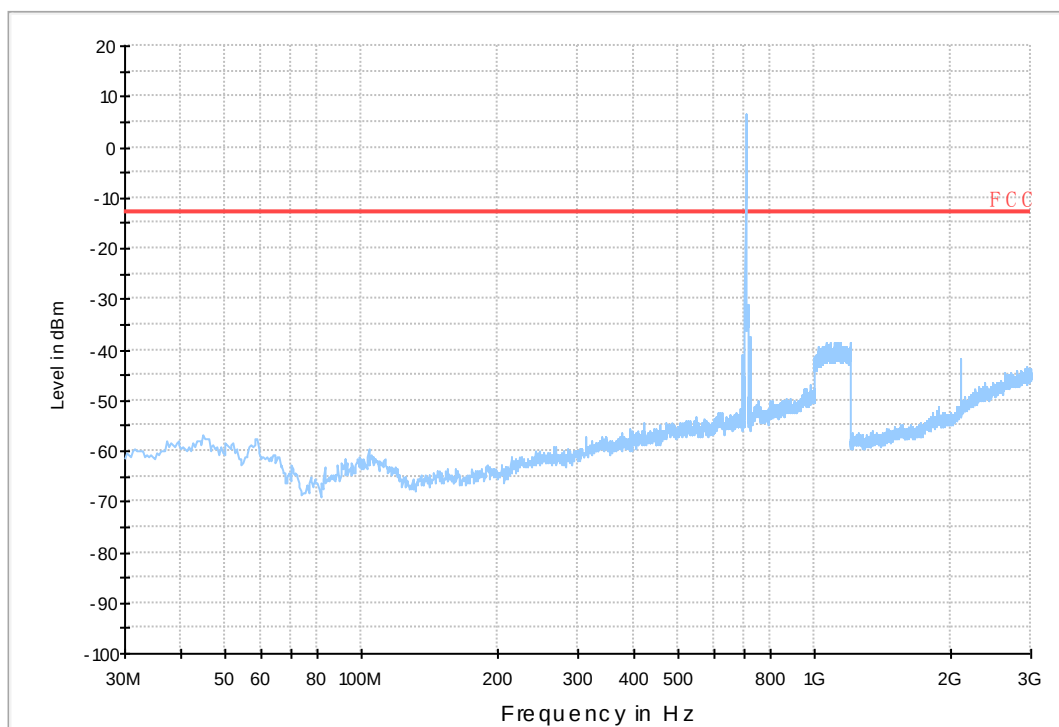
Copy of RSE-TX-DIRECTOR BELOW 1G_H



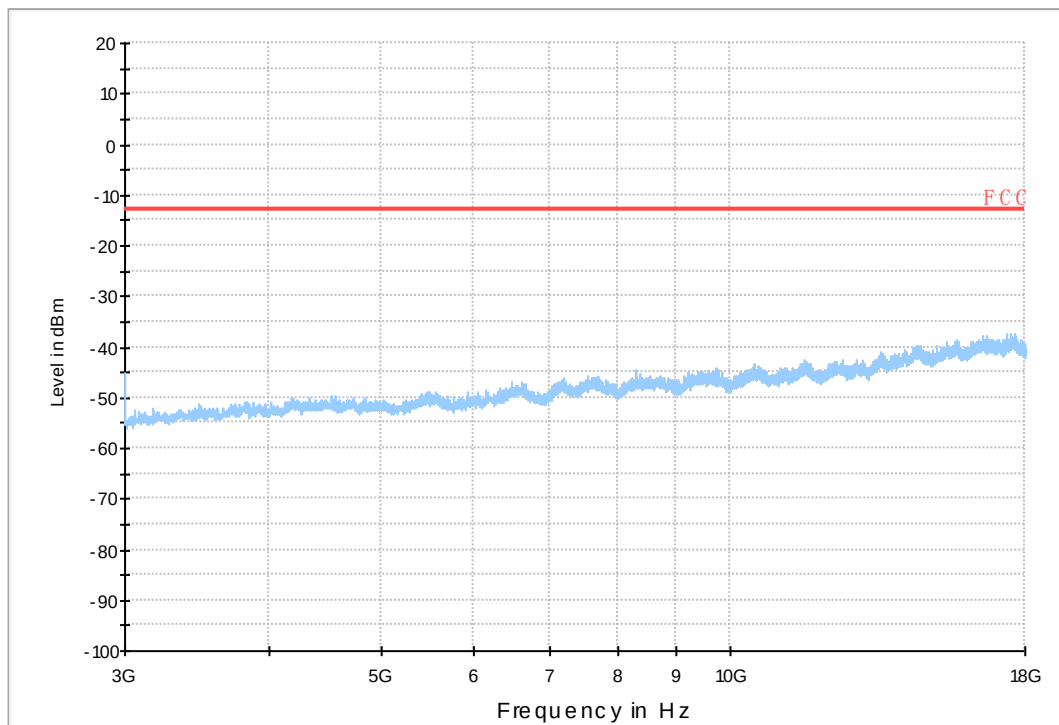
7.1.1.3 Test Bandwidth = 10



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
BAND12	LTE/TM1	1.4	LCH	TN	VL	0.46	0.00066	PASS
					VN	0.99	0.00141	PASS
					VH	0.44	0.00063	PASS
			MCH	TN	VL	1.56	0.0022	PASS
					VN	1.37	0.00194	PASS
					VH	1.76	0.00249	PASS
			HCH	TN	VL	1.3	0.00182	PASS
					VN	1.49	0.00208	PASS
					VH	1.02	0.00143	PASS
		3	LCH	TN	VL	-6.58	-0.00939	PASS
					VN	3.56	0.00508	PASS
					VH	-0.7	-0.001	PASS
			MCH	TN	VL	-2.76	-0.0039	PASS
					VN	1.36	0.00192	PASS
					VH	5.71	0.00807	PASS
			HCH	TN	VL	-0.99	-0.00139	PASS
					VN	1.93	0.0027	PASS
					VH	-1.1	-0.00154	PASS
		5	LCH	TN	VL	-2	-0.00285	PASS
					VN	-1.96	-0.00279	PASS
					VH	2.06	0.00294	PASS
			MCH	TN	VL	6.14	0.00868	PASS
					VN	-1.97	-0.00278	PASS
					VH	-1.06	-0.0015	PASS
			HCH	TN	VL	-4.05	-0.00568	PASS
					VN	-0.83	-0.00116	PASS
					VH	-5.78	-0.0081	PASS
		10	LCH	TN	VL	-1.12	-0.00159	PASS
					VN	-12.65	-0.01797	PASS
					VH	-1.26	-0.00179	PASS
			MCH	TN	VL	9.6	0.01357	PASS
					VN	-3.1	-0.00438	PASS
					VH	-1.79	-0.00253	PASS
			HCH	TN	VL	-7.71	-0.01084	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					VN	-6.82	-0.00959	PASS			
					VH	-9.63	-0.01354	PASS			
	LTE/TM2	1.4	LCH	TN	VL	-0.2	-0.00029	PASS			
					VN	-0.23	-0.00033	PASS			
					VH	0.06	0.00009	PASS			
					VL	-0.23	-0.00033	PASS			
			MCH	TN	VN	0.13	0.00018	PASS			
					VH	-0.13	-0.00018	PASS			
					VL	0.16	0.00022	PASS			
					VN	0.82	0.00115	PASS			
			HCH	TN	VH	0.37	0.00052	PASS			
					VL	-4.33	-0.00618	PASS			
					3	LCH	TN	VN	4.75	0.00678	PASS
								VH	2.6	0.00371	PASS
		VL	1.97	0.00278				PASS			
		VN	-0.43	-0.00061				PASS			
		MCH	TN	VH		-0.43	-0.00061	PASS			
				VL		-6.12	-0.00857	PASS			
				VN		3	0.0042	PASS			
				VH		3.75	0.00525	PASS			
		5	LCH	TN		VL	8.37	0.01193	PASS		
						VN	1.73	0.00247	PASS		
						VH	-4.49	-0.0064	PASS		
						VL	-8.4	-0.01187	PASS		
			MCH	TN	VN	-8.21	-0.0116	PASS			
					VH	-3.39	-0.00479	PASS			
					VL	-4.43	-0.00621	PASS			
					VN	-1.72	-0.00241	PASS			
			HCH	TN	VH	-4.61	-0.00646	PASS			
					10	LCH	TN	VL	-2.15	-0.00305	PASS
								VN	6.15	0.00874	PASS
								VH	-7.21	-0.01024	PASS
		VL	0.93	0.00131				PASS			
		MCH	TN	VN		-1	-0.00141	PASS			
				VH		-0.06	-0.00008	PASS			
				HCH		TN	VL	-0.34	-0.00048	PASS	
							VN	8.07	0.01135	PASS	
		VH	-1.73				-0.00243	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
BAND12	LTE/TM1	1.4	LCH	VN	-30	1.59	0.00227	PASS
					-20	1.36	0.00194	PASS
					-10	1.39	0.00199	PASS
					0	1.06	0.00151	PASS
					10	0.72	0.00103	PASS
					20	0.86	0.00123	PASS
					30	-0.06	-0.00009	PASS
					40	0.49	0.0007	PASS
					50	0.86	0.00123	PASS
			MCH	VN	-30	1.32	0.00187	PASS
					-20	0.59	0.00083	PASS
					-10	1.12	0.00158	PASS
					0	1.03	0.00146	PASS
					10	0.69	0.00098	PASS
					20	-0.24	-0.00034	PASS
					30	1.23	0.00174	PASS
					40	1.02	0.00144	PASS
					50	-0.29	-0.00041	PASS
			HCH	VN	-30	-0.39	-0.00055	PASS
					-20	0.54	0.00075	PASS
					-10	0.46	0.00064	PASS
					0	0.19	0.00027	PASS
					10	-0.11	-0.00015	PASS
					20	0.77	0.00108	PASS
					30	0.04	0.00006	PASS
					40	-0.13	-0.00018	PASS
					50	-0.13	-0.00018	PASS
		3	LCH	VN	-30	-2.26	-0.00323	PASS
					-20	-2.62	-0.00374	PASS
					-10	0.41	0.00059	PASS
					0	-6.37	-0.00909	PASS
					10	3.5	0.005	PASS
					20	6.95	0.00992	PASS
					30	5.44	0.00777	PASS
					40	1.96	0.0028	PASS
					50	5.41	0.00772	PASS
			MCH	VN	-30	-1.07	-0.00151	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-8.96	-0.01266	PASS
					-10	3.49	0.00493	PASS
					0	4.49	0.00635	PASS
					10	-1.1	-0.00155	PASS
					20	3.78	0.00534	PASS
					30	-3.29	-0.00465	PASS
					40	-4.36	-0.00616	PASS
					50	4.52	0.00639	PASS
			HCH	VN	-30	2.68	0.00375	PASS
					-20	-1.46	-0.00204	PASS
					-10	0.72	0.00101	PASS
					0	3.06	0.00428	PASS
					10	-2.35	-0.00329	PASS
					20	4.02	0.00563	PASS
					30	-1.82	-0.00255	PASS
					40	4.18	0.00585	PASS
					50	2.22	0.00311	PASS
		5	LCH	VN	-30	0.19	0.00027	PASS
					-20	5.62	0.00801	PASS
					-10	1.34	0.00191	PASS
					0	-0.17	-0.00024	PASS
					10	7.01	0.00999	PASS
					20	0.63	0.0009	PASS
					30	-3.66	-0.00522	PASS
					40	6.04	0.00861	PASS
					50	3.43	0.00489	PASS
			MCH	VN	-30	2.1	0.00297	PASS
					-20	2.63	0.00372	PASS
					-10	-0.79	-0.00112	PASS
					0	1.56	0.0022	PASS
					10	-2.07	-0.00293	PASS
					20	-7.88	-0.01114	PASS
					30	0.24	0.00034	PASS
					40	1.47	0.00208	PASS
					50	-1.19	-0.00168	PASS
			HCH	VN	-30	-3.46	-0.00485	PASS
					-20	-0.84	-0.00118	PASS
					-10	-0.2	-0.00028	PASS
					0	-5.35	-0.0075	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-0.01	-0.00001	PASS
					20	-6.72	-0.00942	PASS
					30	0.36	0.0005	PASS
					40	-3.25	-0.00456	PASS
					50	-0.34	-0.00048	PASS
		10	LCH	VN	-30	13.82	0.01963	PASS
					-20	20.04	0.02847	PASS
					-10	8.8	0.0125	PASS
					0	-2.79	-0.00396	PASS
					10	-2.55	-0.00362	PASS
					20	8.51	0.01209	PASS
					30	8.07	0.01146	PASS
					40	14.86	0.02111	PASS
					50	10.46	0.01486	PASS
			MCH	VN	-30	6.48	0.00916	PASS
					-20	9.83	0.01389	PASS
					-10	5.59	0.0079	PASS
					0	17.09	0.02416	PASS
					10	17.15	0.02424	PASS
					20	10.26	0.0145	PASS
					30	13.69	0.01935	PASS
					40	-2.88	-0.00407	PASS
					50	4.81	0.0068	PASS
			HCH	VN	-30	-11.73	-0.0165	PASS
					-20	-5.78	-0.00813	PASS
					-10	-1.95	-0.00274	PASS
					0	-2.76	-0.00388	PASS
					10	1.14	0.0016	PASS
					20	-0.79	-0.00111	PASS
					30	4.22	0.00594	PASS
					40	-4.26	-0.00599	PASS
					50	-3.55	-0.00499	PASS
	LTE/TM2	1.4	LCH	VN	-30	1.12	0.0016	PASS
					-20	-0.11	-0.00016	PASS
					-10	0.11	0.00016	PASS
					0	-1.2	-0.00172	PASS
					10	-0.2	-0.00029	PASS
					20	-0.51	-0.00073	PASS
					30	-0.14	-0.0002	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-0.43	-0.00061	PASS
					50	0.14	0.0002	PASS
			MCH	VN	-30	0.4	0.00057	PASS
					-20	0.86	0.00122	PASS
					-10	0.51	0.00072	PASS
					0	0.94	0.00133	PASS
					10	0.09	0.00013	PASS
					20	0.5	0.00071	PASS
					30	1.07	0.00151	PASS
					40	1.19	0.00168	PASS
					50	1.77	0.0025	PASS
			HCH	VN	-30	0.3	0.00042	PASS
					-20	0.77	0.00108	PASS
					-10	-0.27	-0.00038	PASS
					0	1.27	0.00178	PASS
					10	1.17	0.00164	PASS
					20	1.29	0.0018	PASS
					30	0.54	0.00075	PASS
					40	0.23	0.00032	PASS
					50	0.53	0.00074	PASS
		3	LCH	VN	-30	0.69	0.00099	PASS
					-20	-1.87	-0.00267	PASS
					-10	5.45	0.00778	PASS
					0	-0.53	-0.00076	PASS
					10	4.72	0.00674	PASS
					20	0.54	0.00077	PASS
					30	5.05	0.00721	PASS
					40	-3.56	-0.00508	PASS
					50	1.54	0.0022	PASS
			MCH	VN	-30	2.23	0.00315	PASS
					-20	-0.64	-0.0009	PASS
					-10	-4.33	-0.00612	PASS
					0	-6.02	-0.00851	PASS
					10	-1.33	-0.00188	PASS
					20	-2.88	-0.00407	PASS
					30	2.83	0.004	PASS
					40	-3.69	-0.00522	PASS
					50	-0.13	-0.00018	PASS
			HCH	VN	-30	-7.11	-0.00995	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	7.32	0.01024	PASS
					-10	4.68	0.00655	PASS
					0	5.84	0.00817	PASS
					10	5.06	0.00708	PASS
					20	-2.03	-0.00284	PASS
					30	9.88	0.01383	PASS
					40	1.7	0.00238	PASS
					50	-0.69	-0.00097	PASS
		5	LCH	VN	-30	1.83	0.00261	PASS
					-20	4.82	0.00687	PASS
					-10	-5.31	-0.00757	PASS
					0	-0.93	-0.00133	PASS
					10	-1.17	-0.00167	PASS
					20	2.22	0.00316	PASS
					30	-0.36	-0.00051	PASS
					40	-5.99	-0.00854	PASS
					50	0.33	0.00047	PASS
			MCH	VN	-30	-6.45	-0.00912	PASS
					-20	-4.13	-0.00584	PASS
					-10	0.56	0.00079	PASS
					0	-3.68	-0.0052	PASS
					10	-3.71	-0.00524	PASS
					20	0.43	0.00061	PASS
					30	2.66	0.00376	PASS
					40	2.16	0.00305	PASS
					50	-3.42	-0.00483	PASS
			HCH	VN	-30	-2.86	-0.00401	PASS
					-20	-0.11	-0.00015	PASS
					-10	-4.55	-0.00638	PASS
					0	-4.23	-0.00593	PASS
					10	-0.96	-0.00135	PASS
					20	3.52	0.00493	PASS
					30	-4.09	-0.00573	PASS
					40	-8.84	-0.01239	PASS
					50	6.52	0.00914	PASS
		10	LCH	VN	-30	-3.91	-0.00555	PASS
					-20	1.12	0.00159	PASS
					-10	0.6	0.00085	PASS
					0	8.9	0.01264	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-6.49	-0.00922	PASS
					20	2.57	0.00365	PASS
					30	8.98	0.01276	PASS
					40	2.17	0.00308	PASS
					50	3.09	0.00439	PASS
			MCH	VN	-30	0.47	0.00066	PASS
					-20	2.79	0.00394	PASS
					-10	4.26	0.00602	PASS
					0	-4.81	-0.0068	PASS
					10	-2.07	-0.00293	PASS
					20	-0.96	-0.00136	PASS
					30	-6.62	-0.00936	PASS
					40	-3.83	-0.00541	PASS
					50	-5.78	-0.00817	PASS
			HCH	VN	-30	-3.86	-0.00543	PASS
					-20	5.46	0.00768	PASS
					-10	-1.22	-0.00172	PASS
					0	0.36	0.00051	PASS
					10	1.39	0.00195	PASS
					20	7.7	0.01083	PASS
					30	4.12	0.00579	PASS
					40	3.86	0.00543	PASS
					50	1.57	0.00221	PASS

END