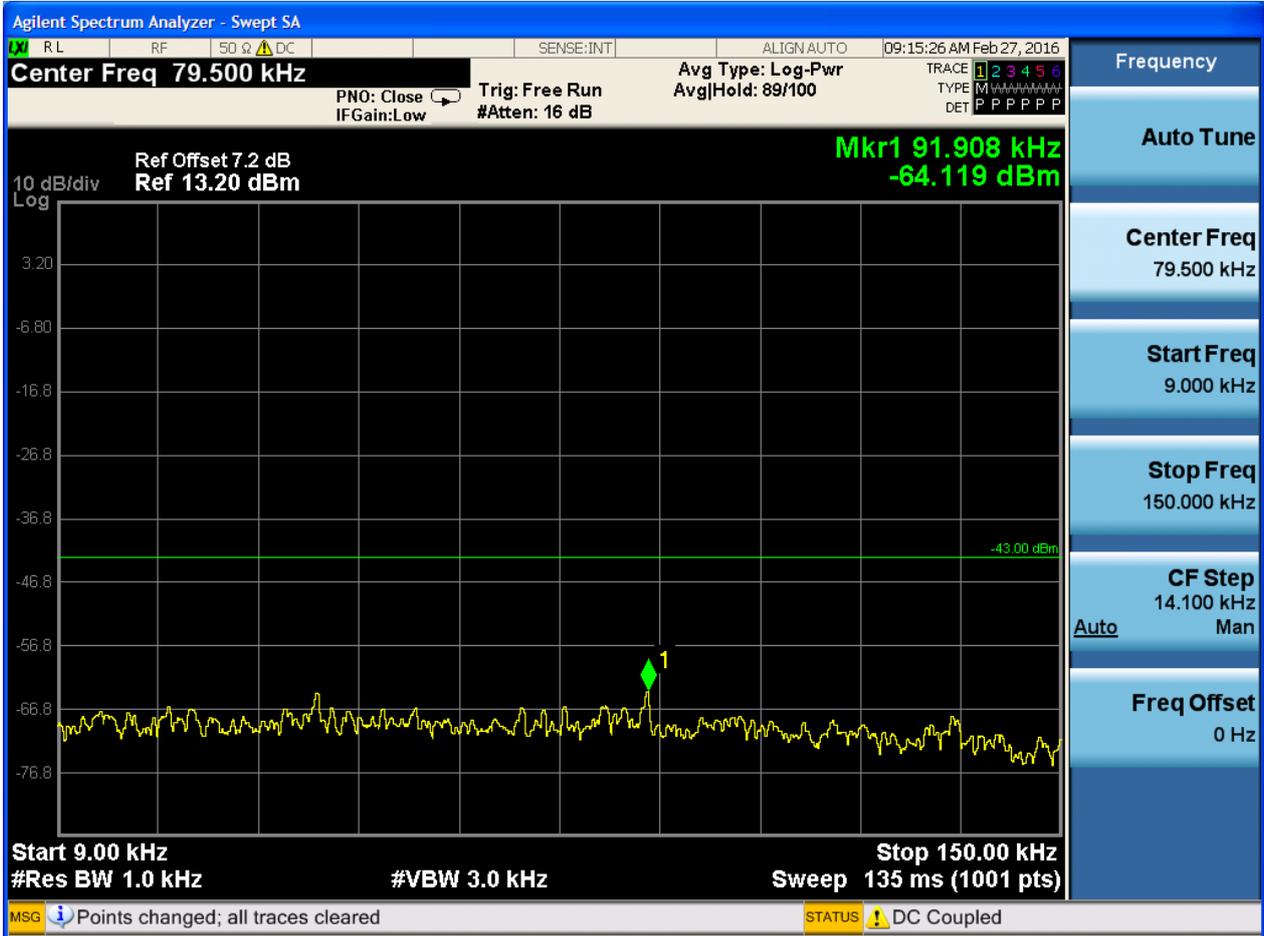
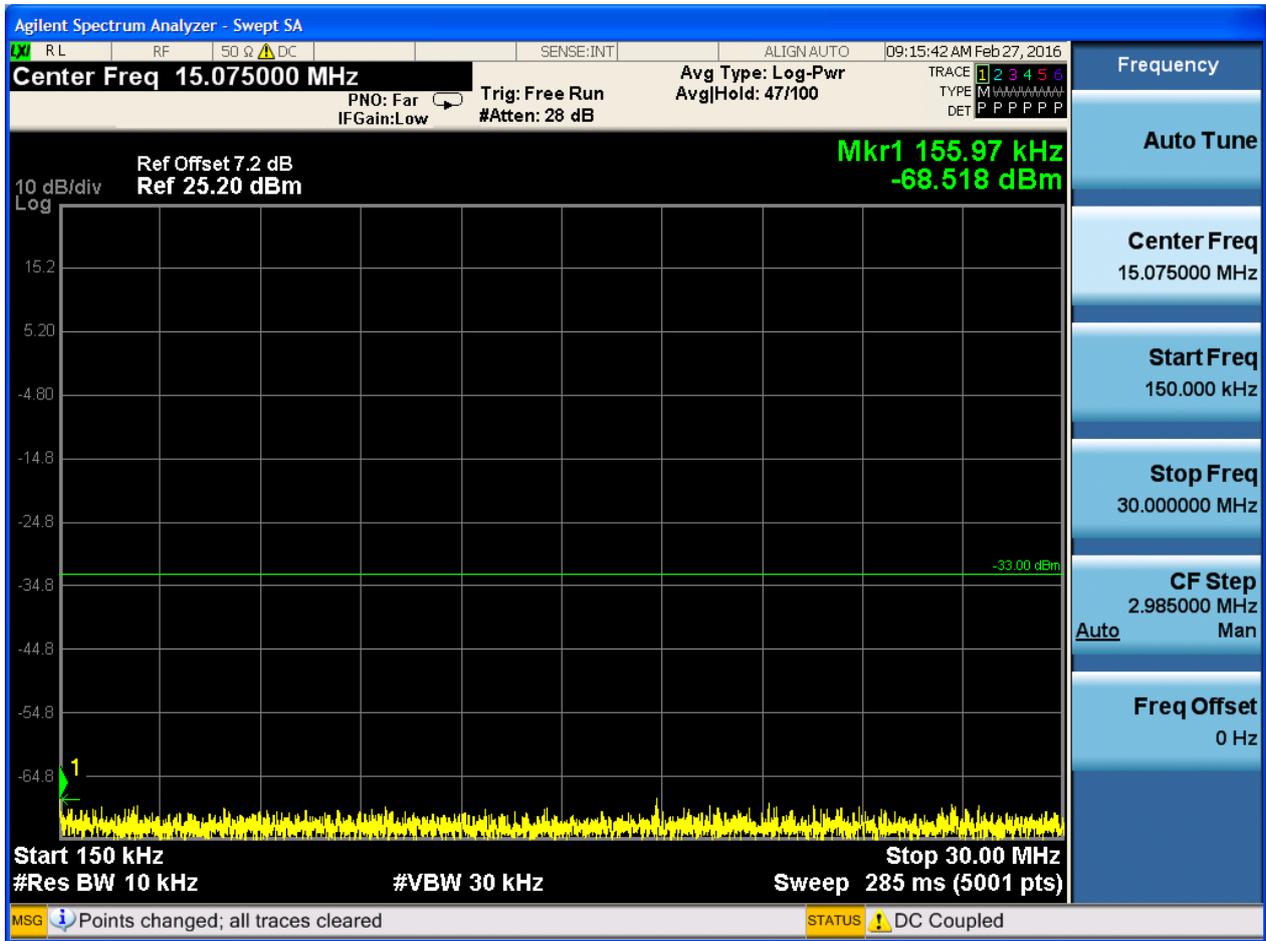


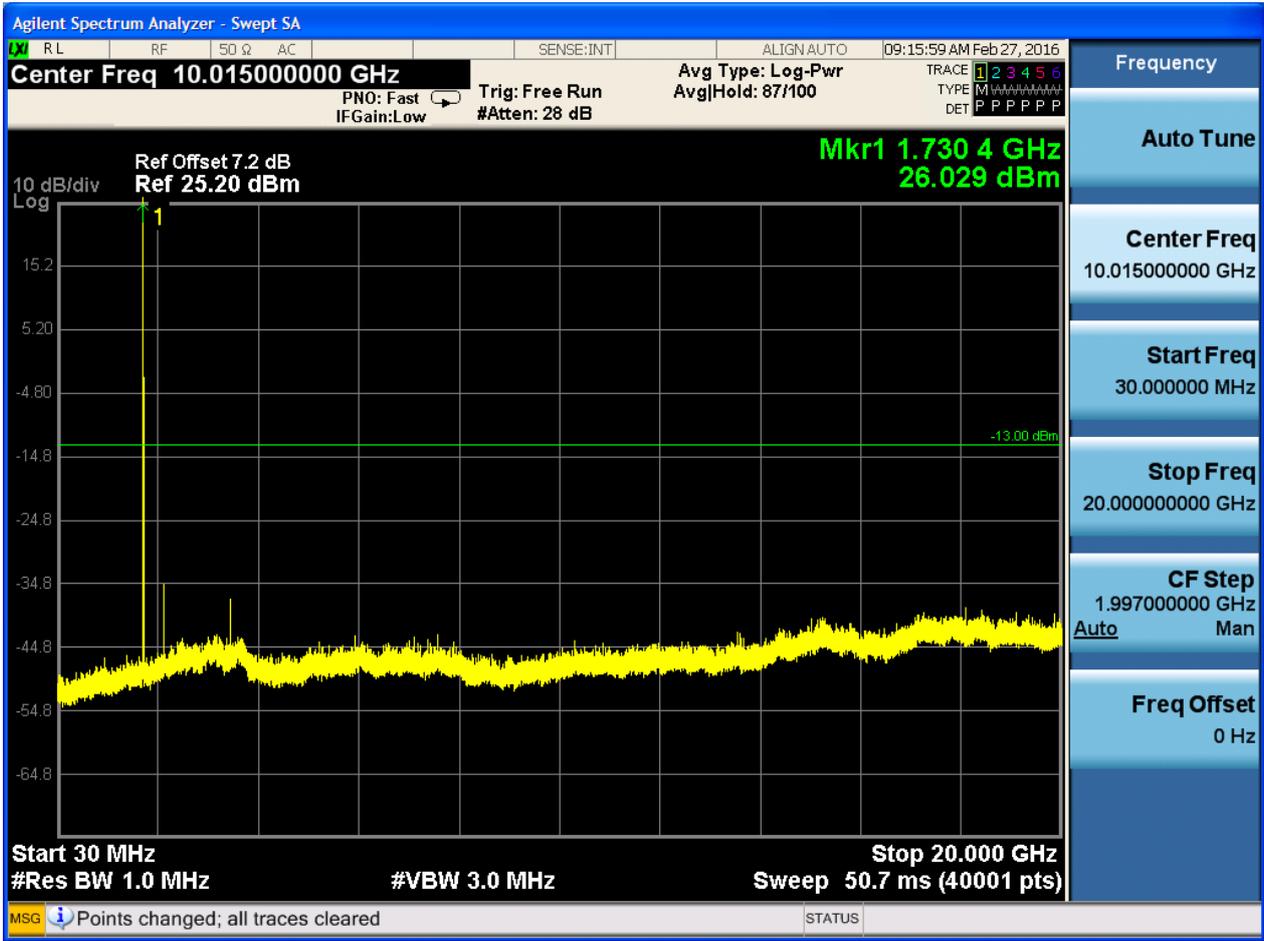


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



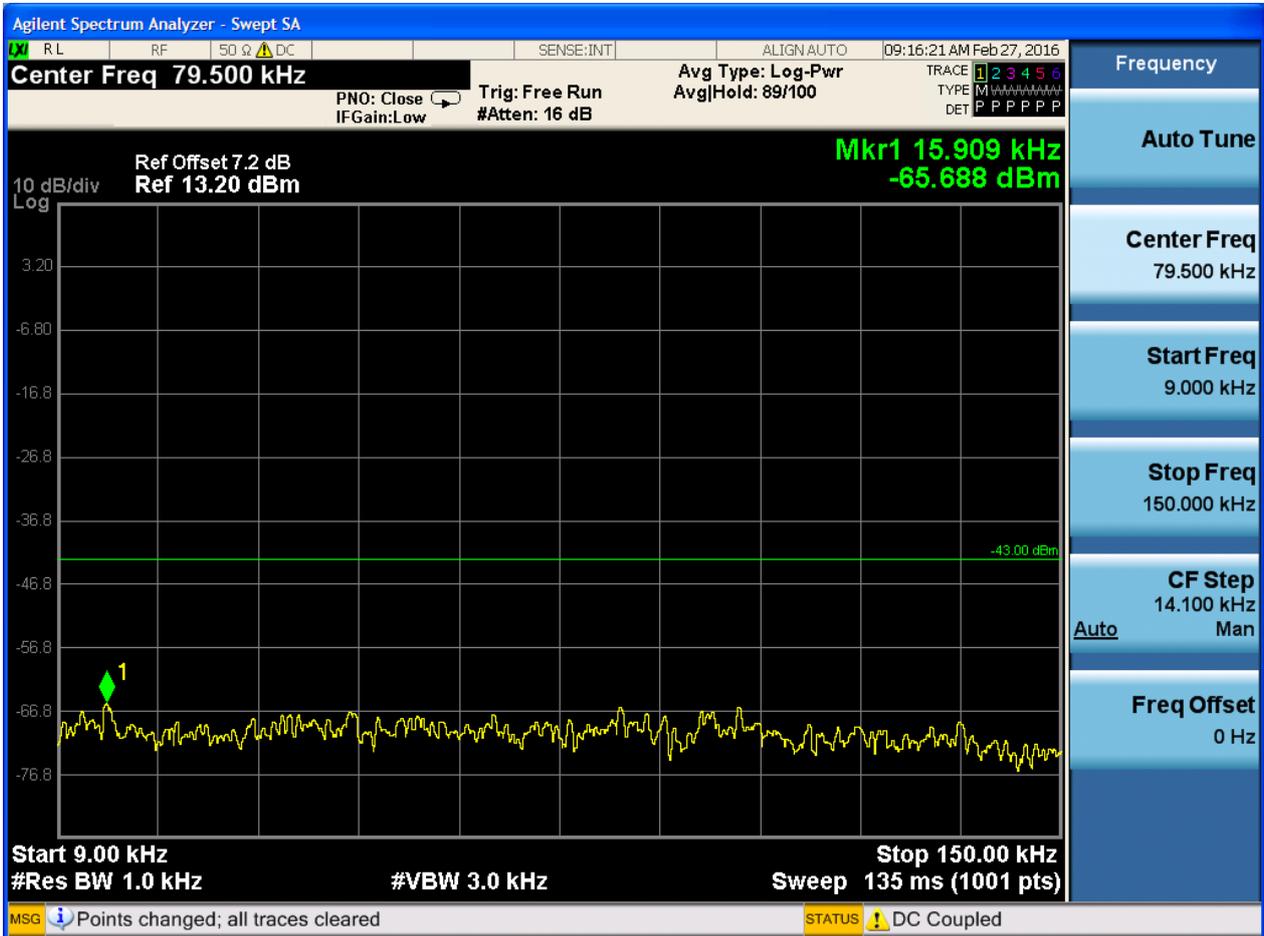




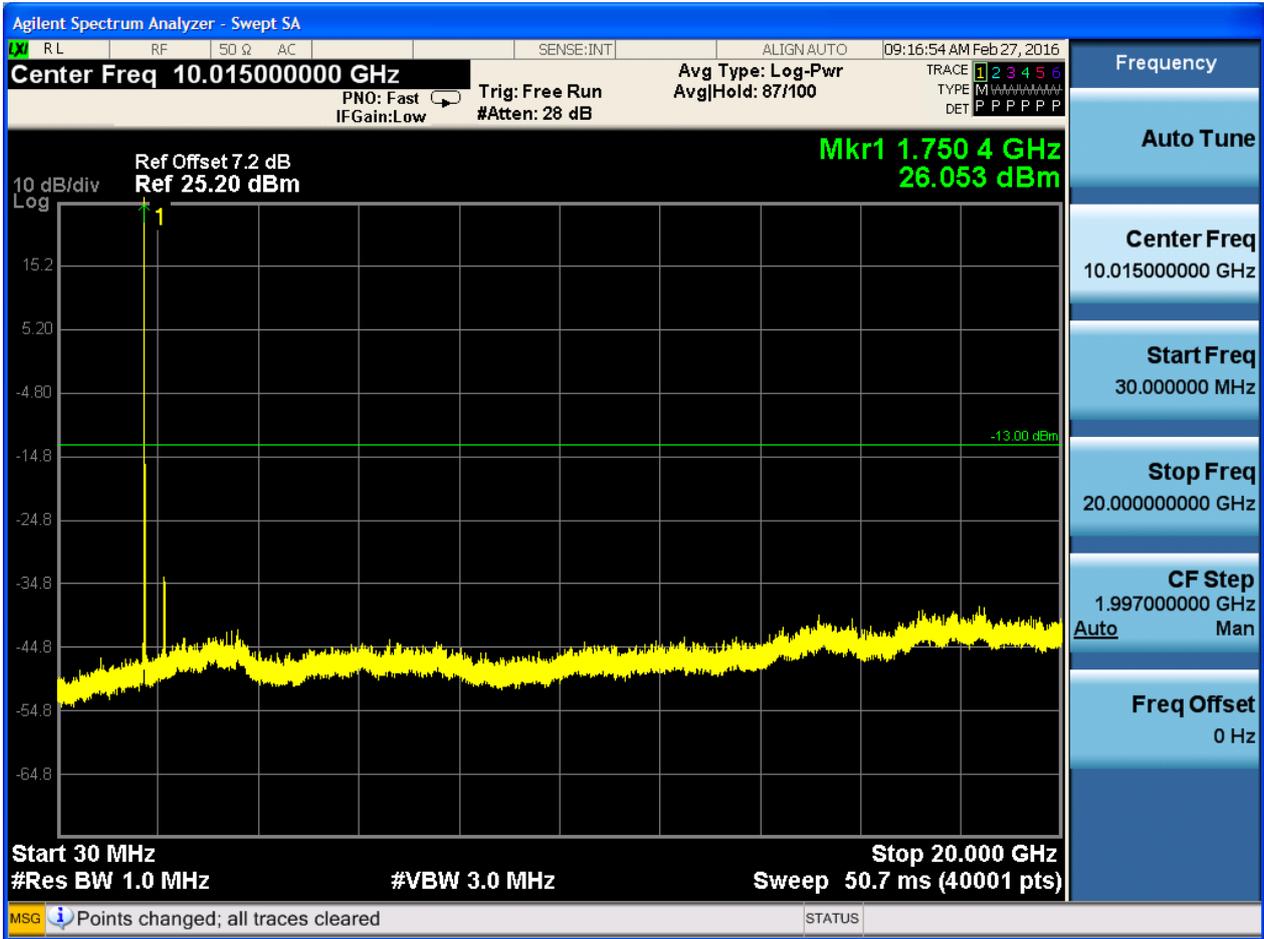


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





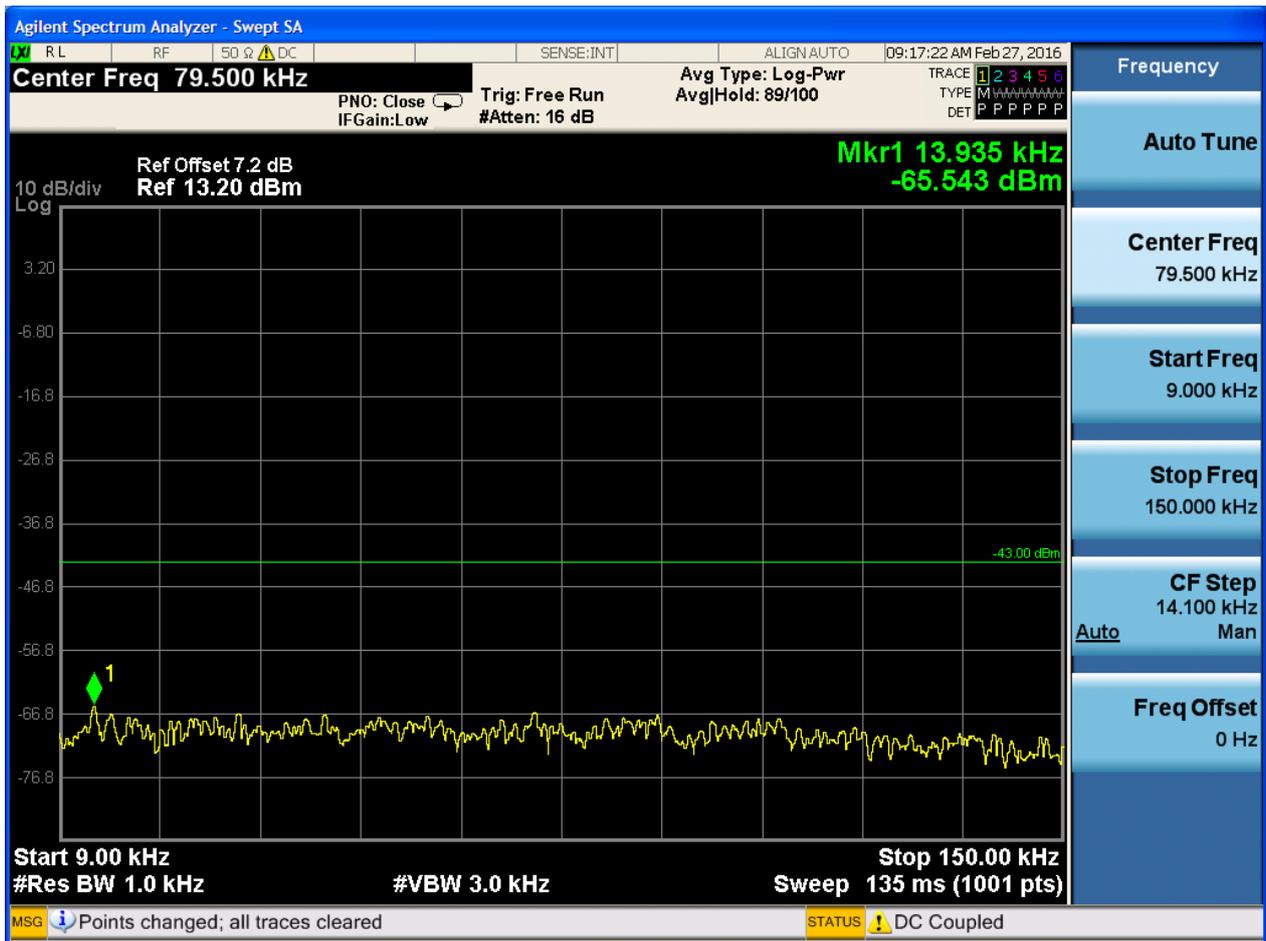




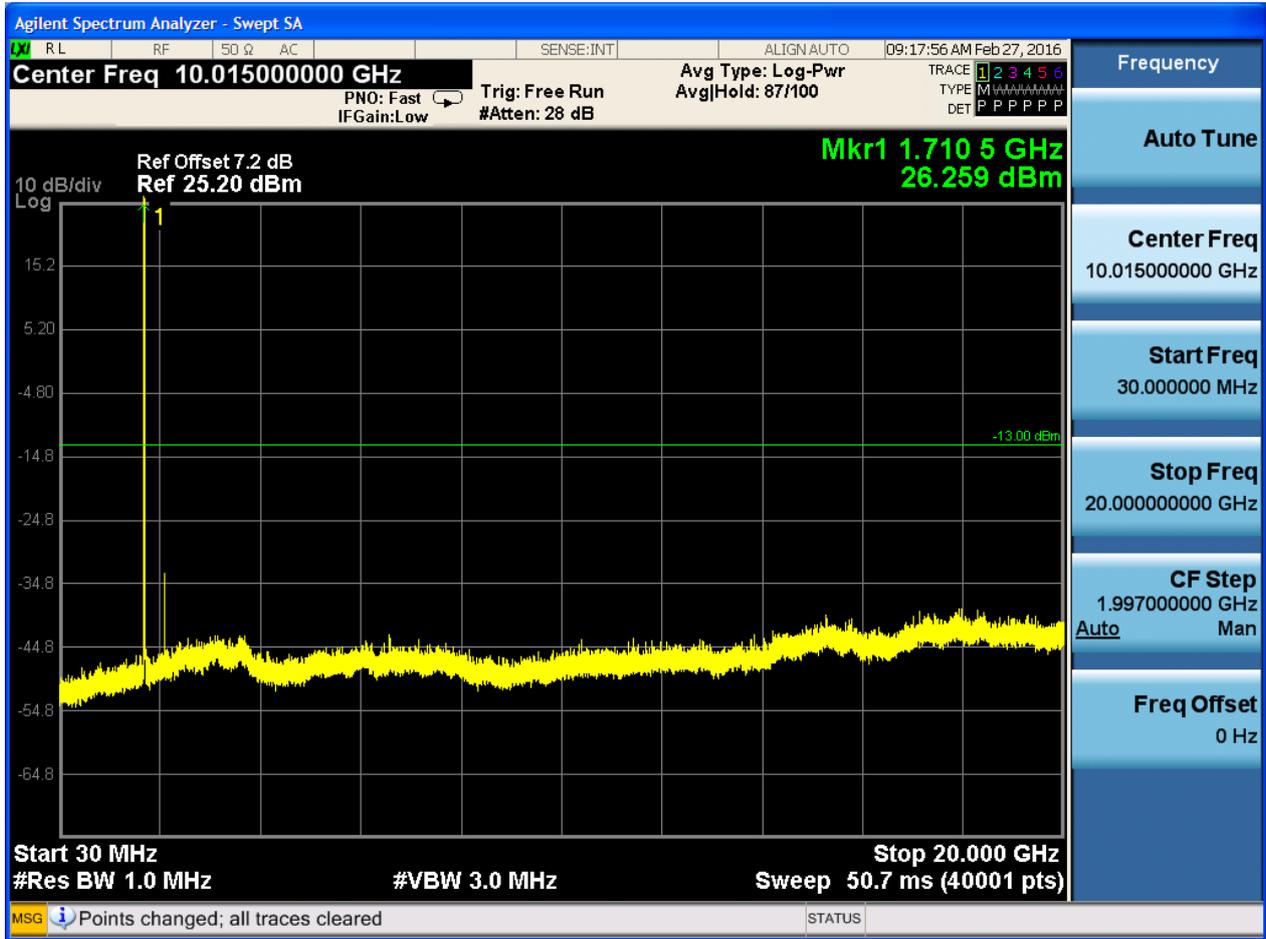
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



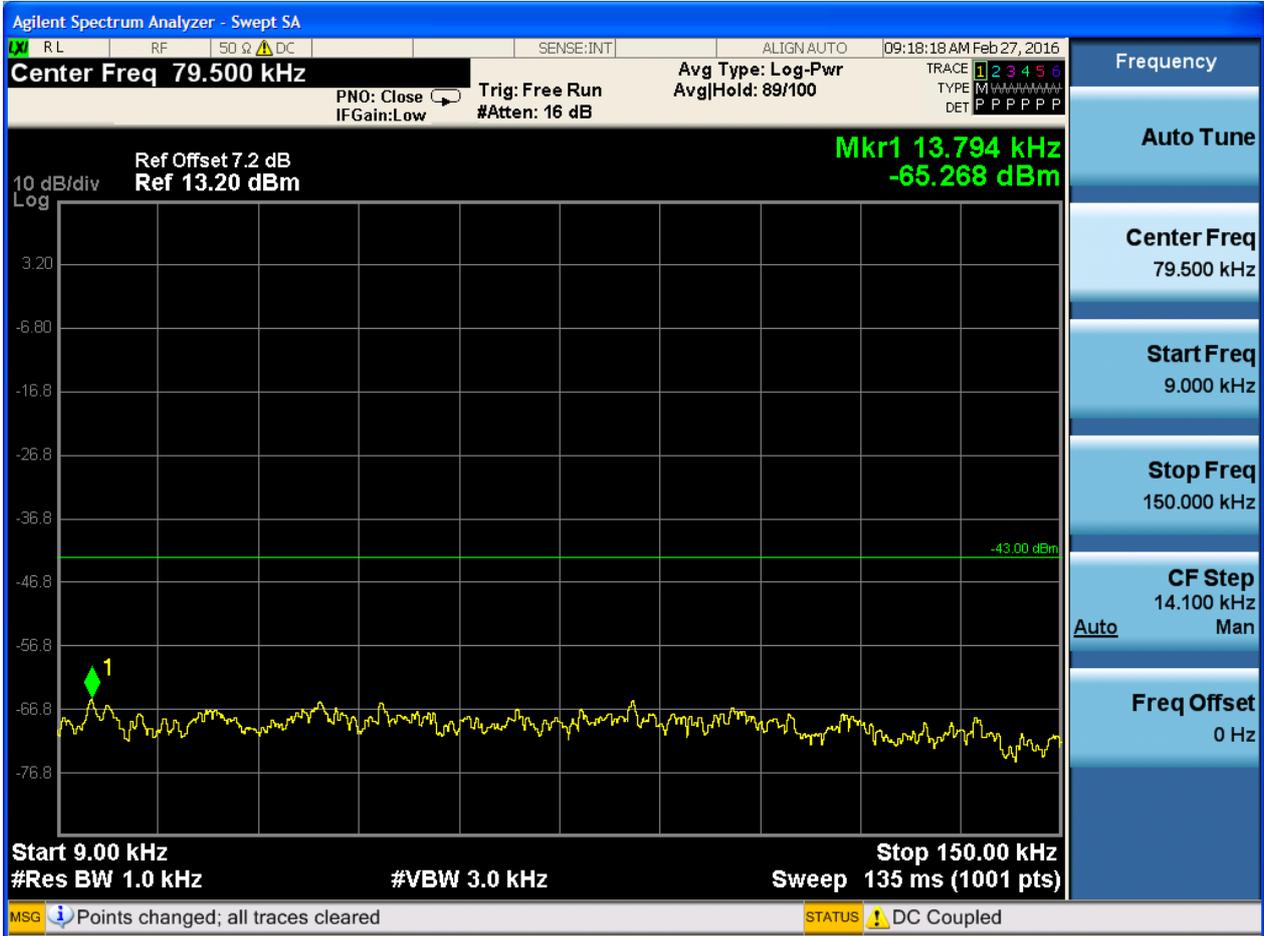


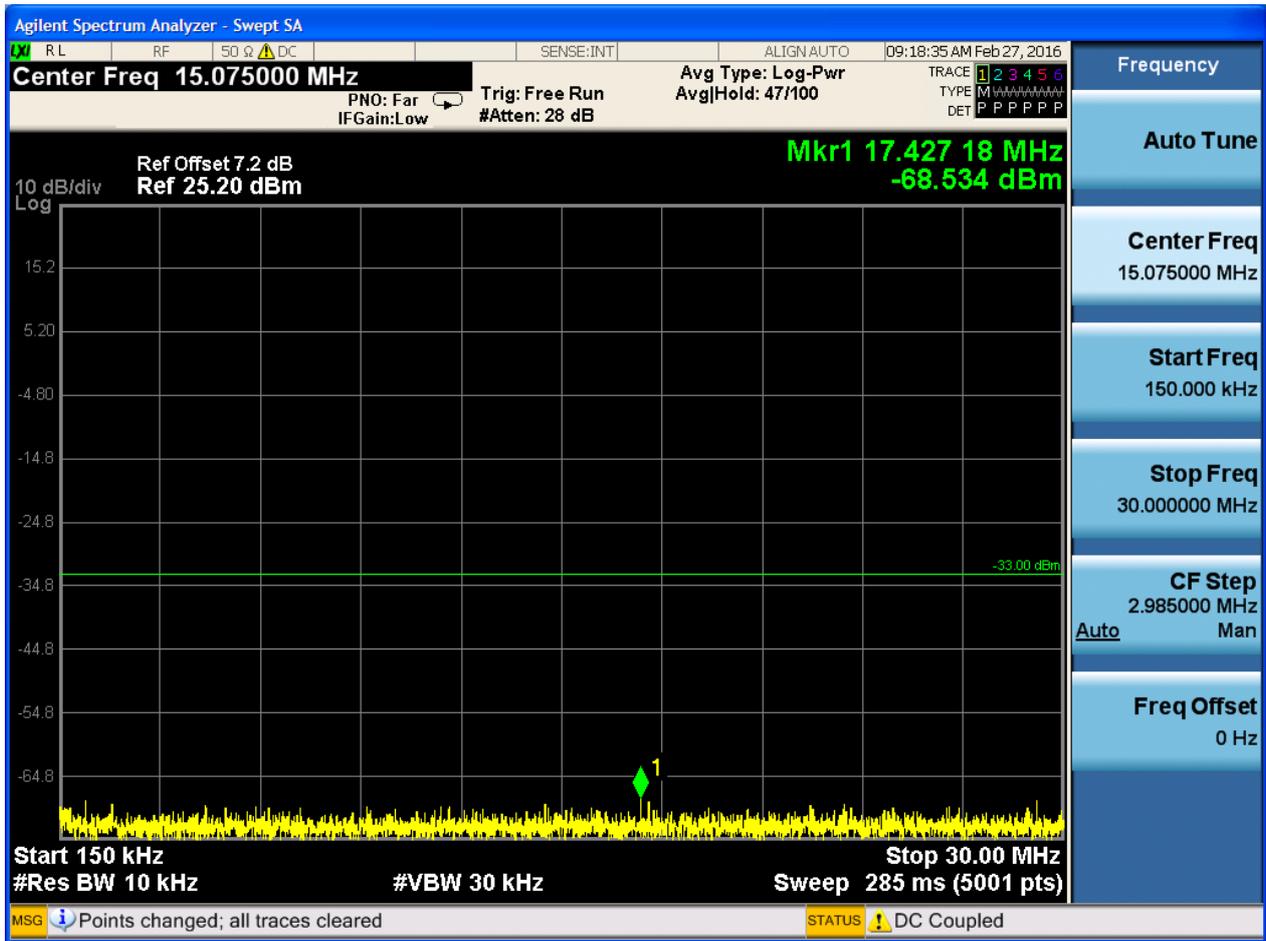


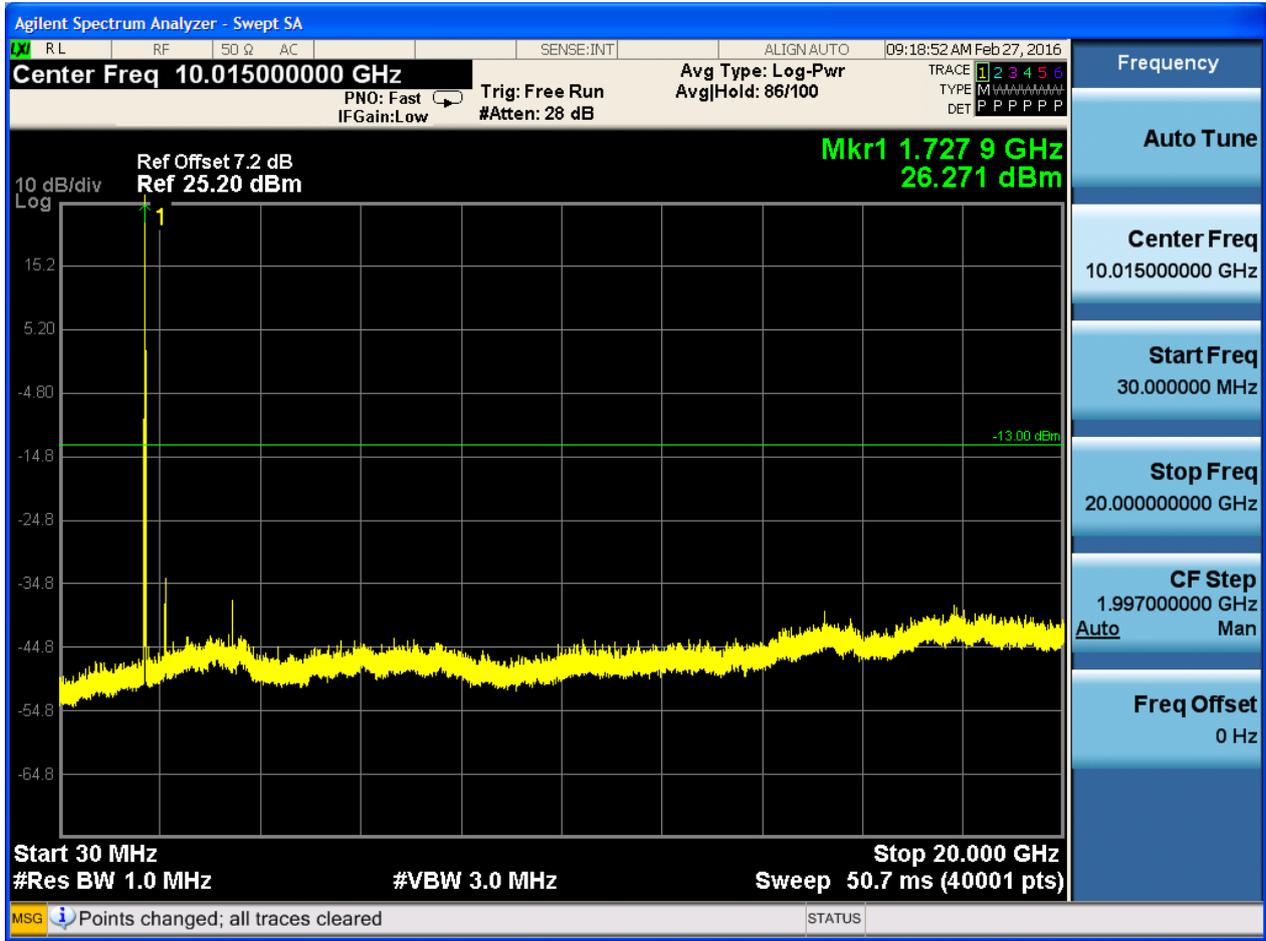


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



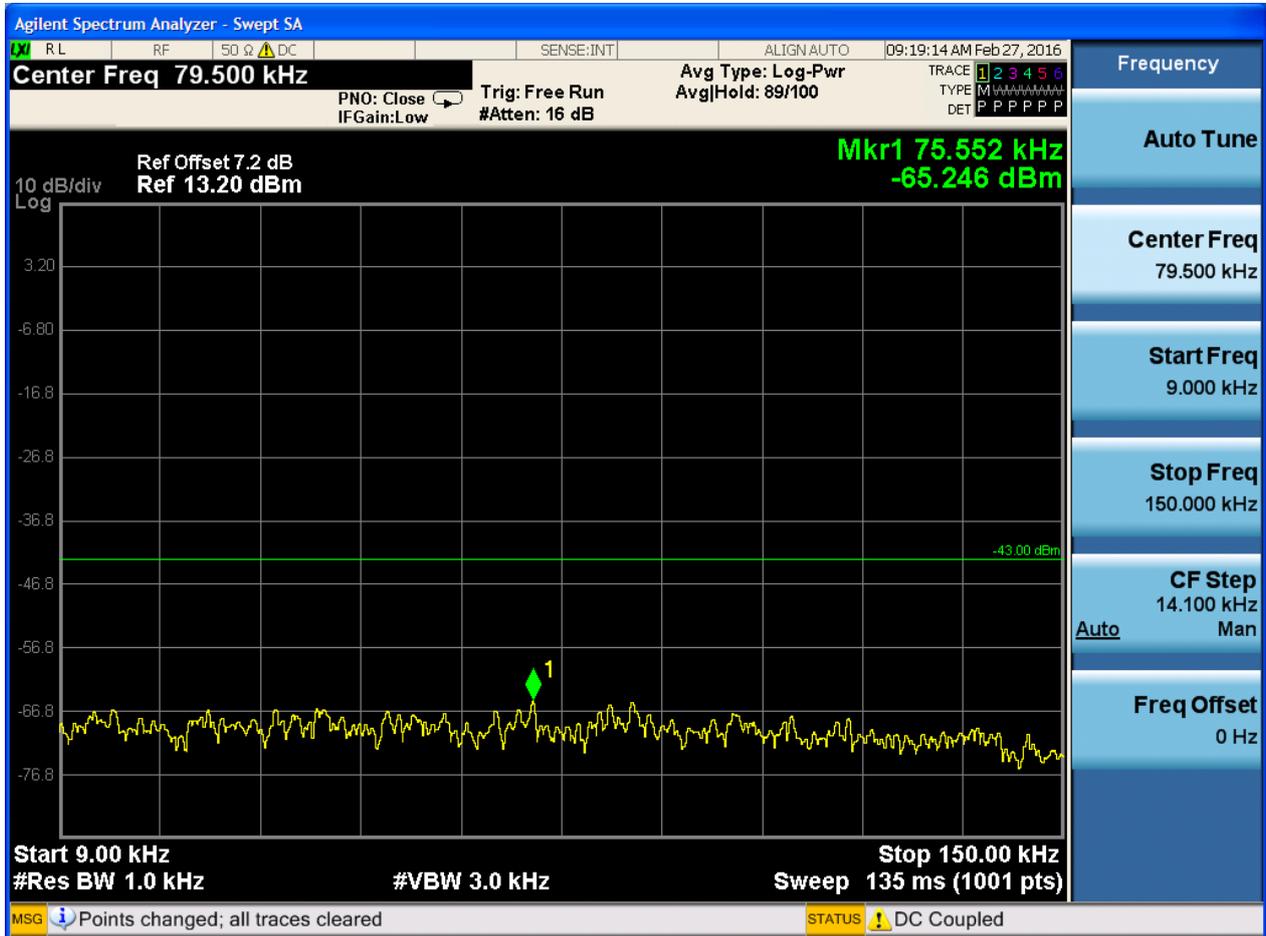


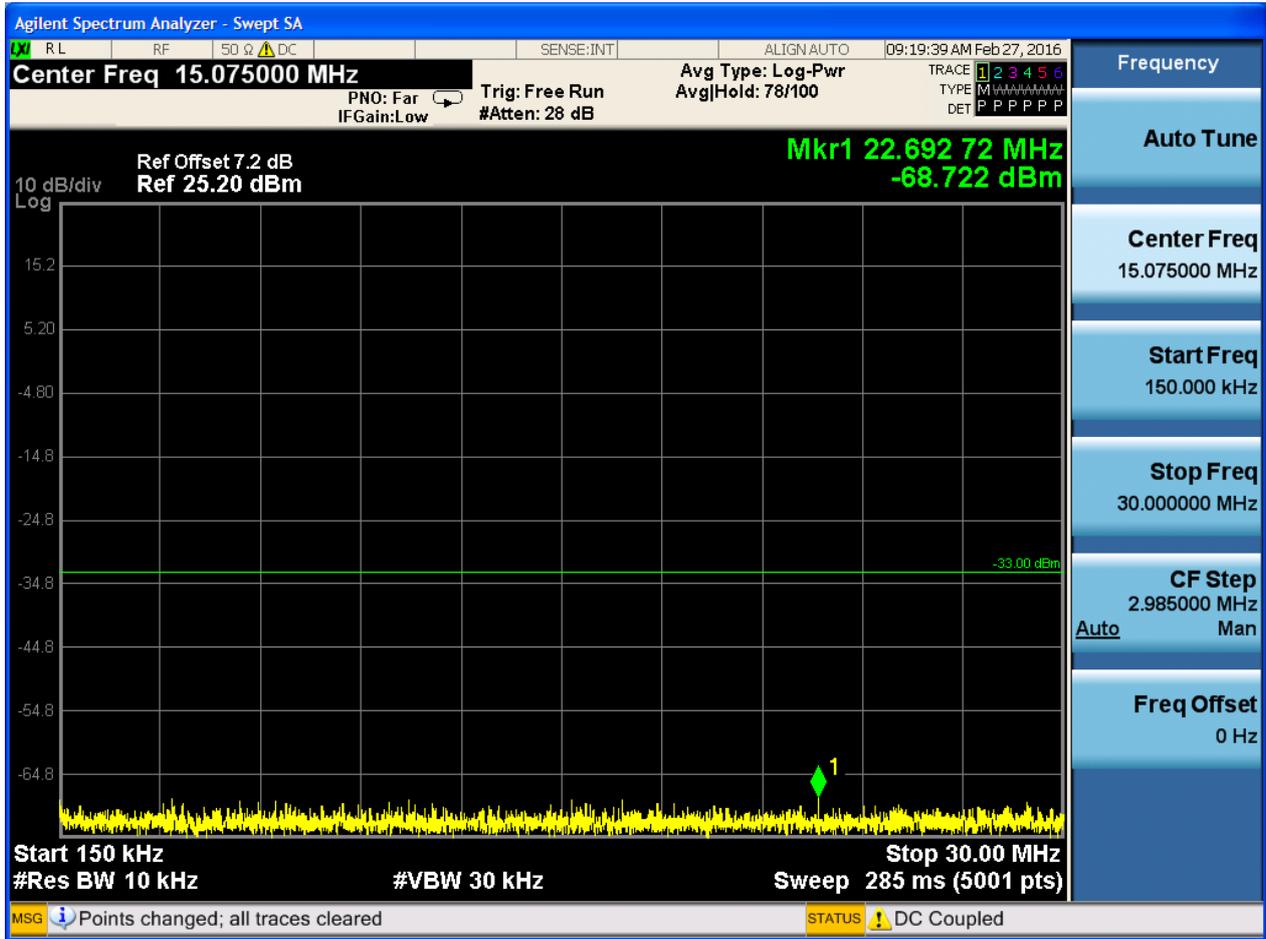


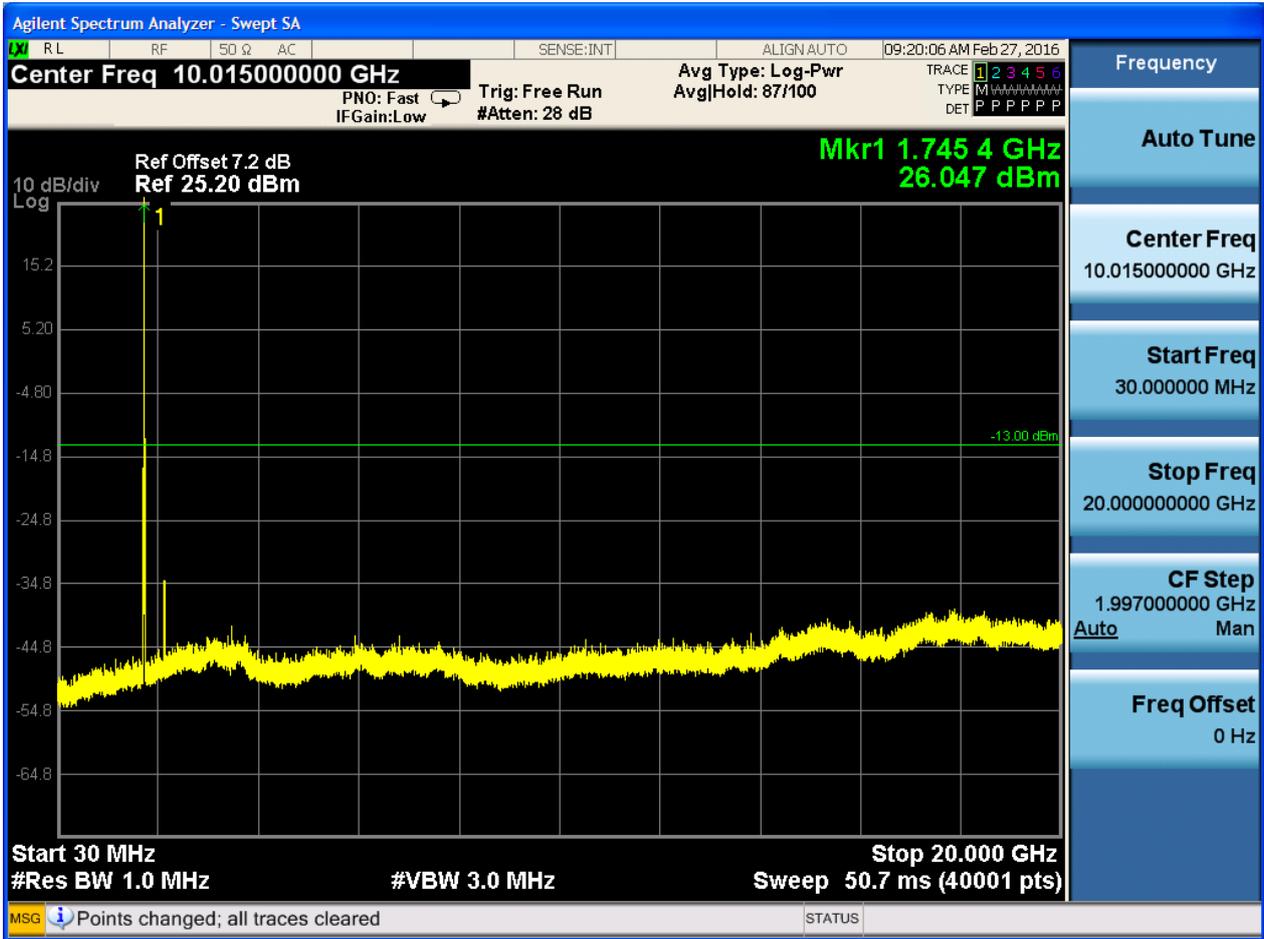


6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0





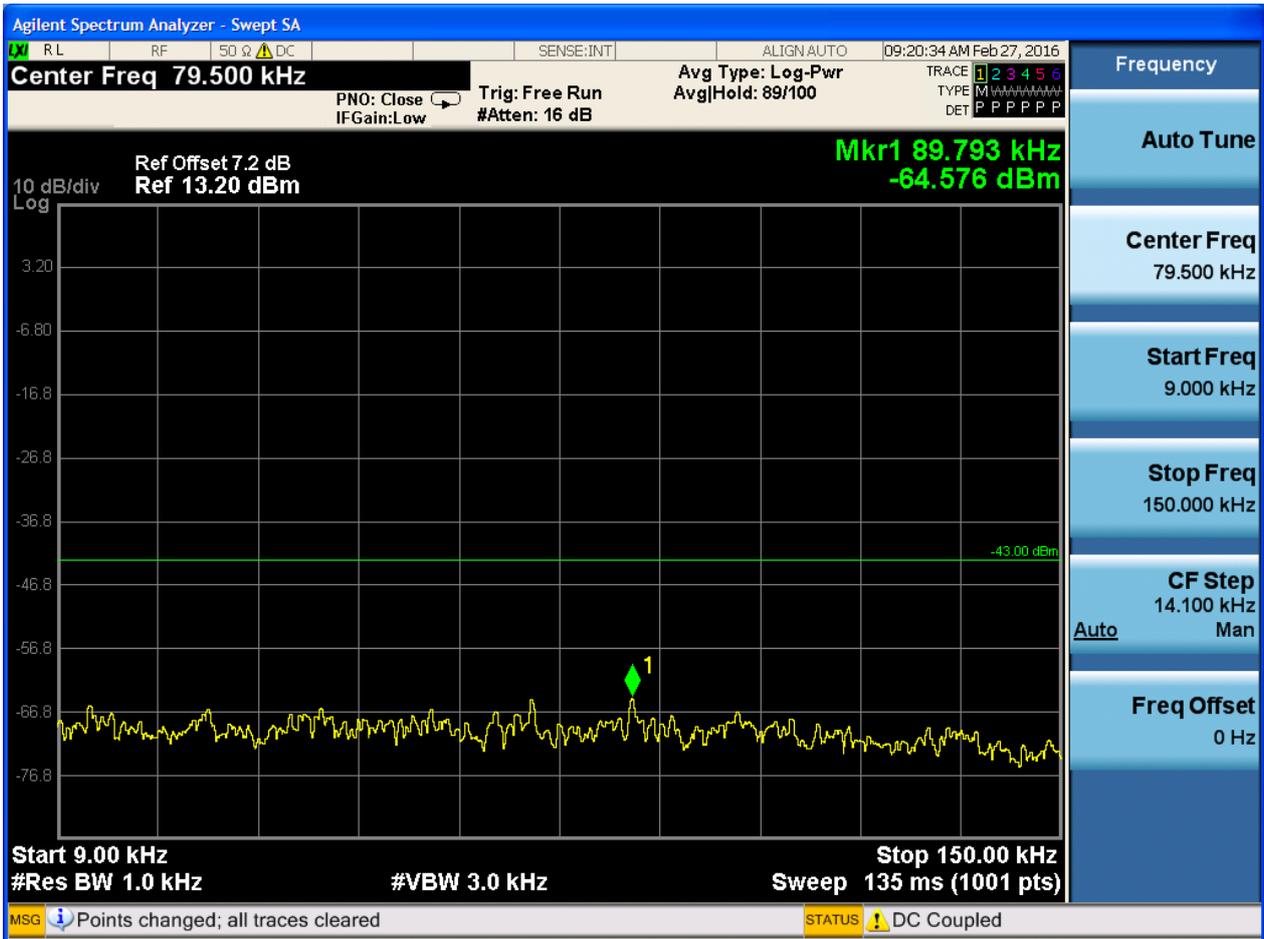


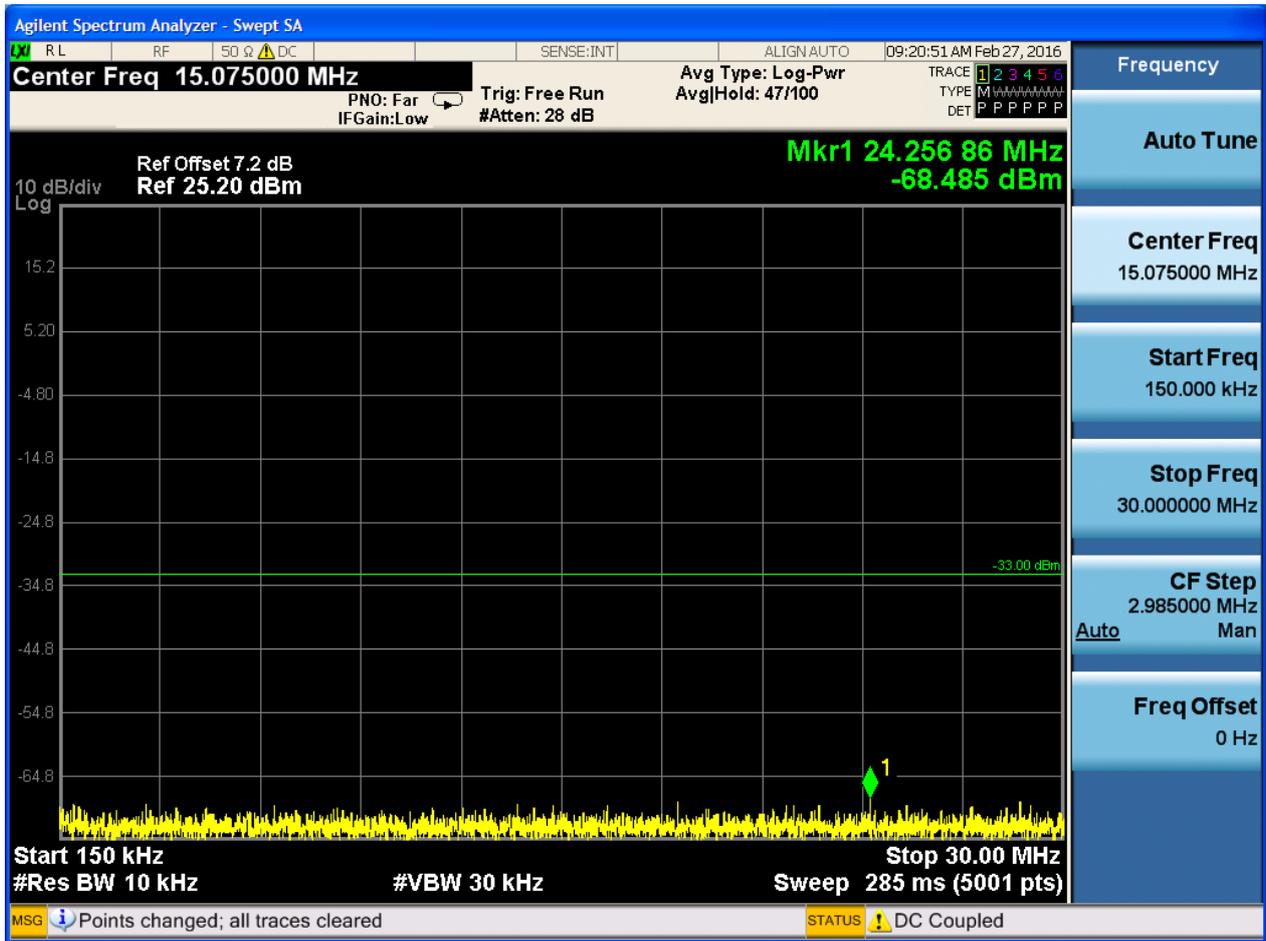


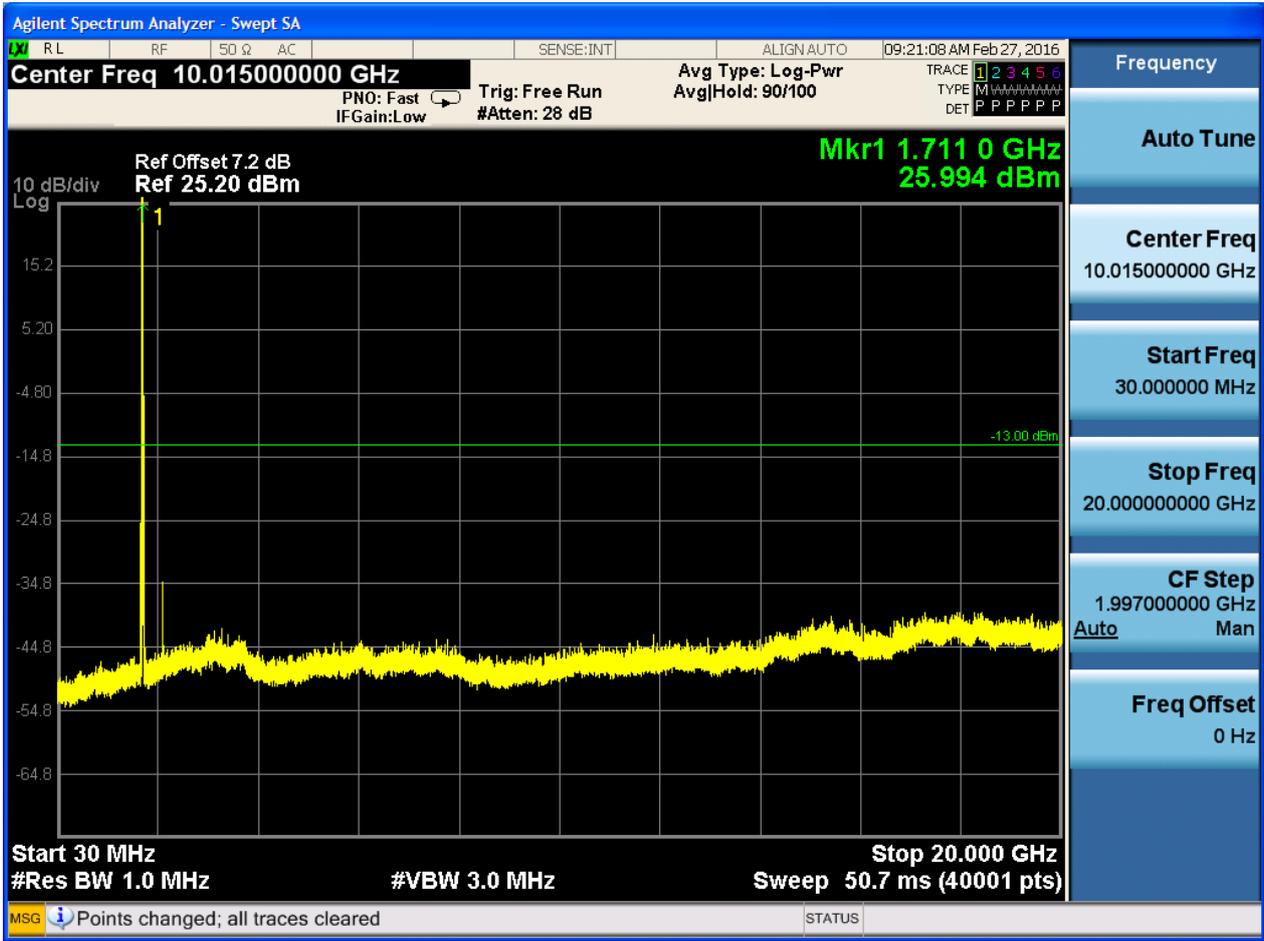
6.1.1.2.5 Test Bandwidth = 15

6.1.1.2.5.1 Test Channel = LCH

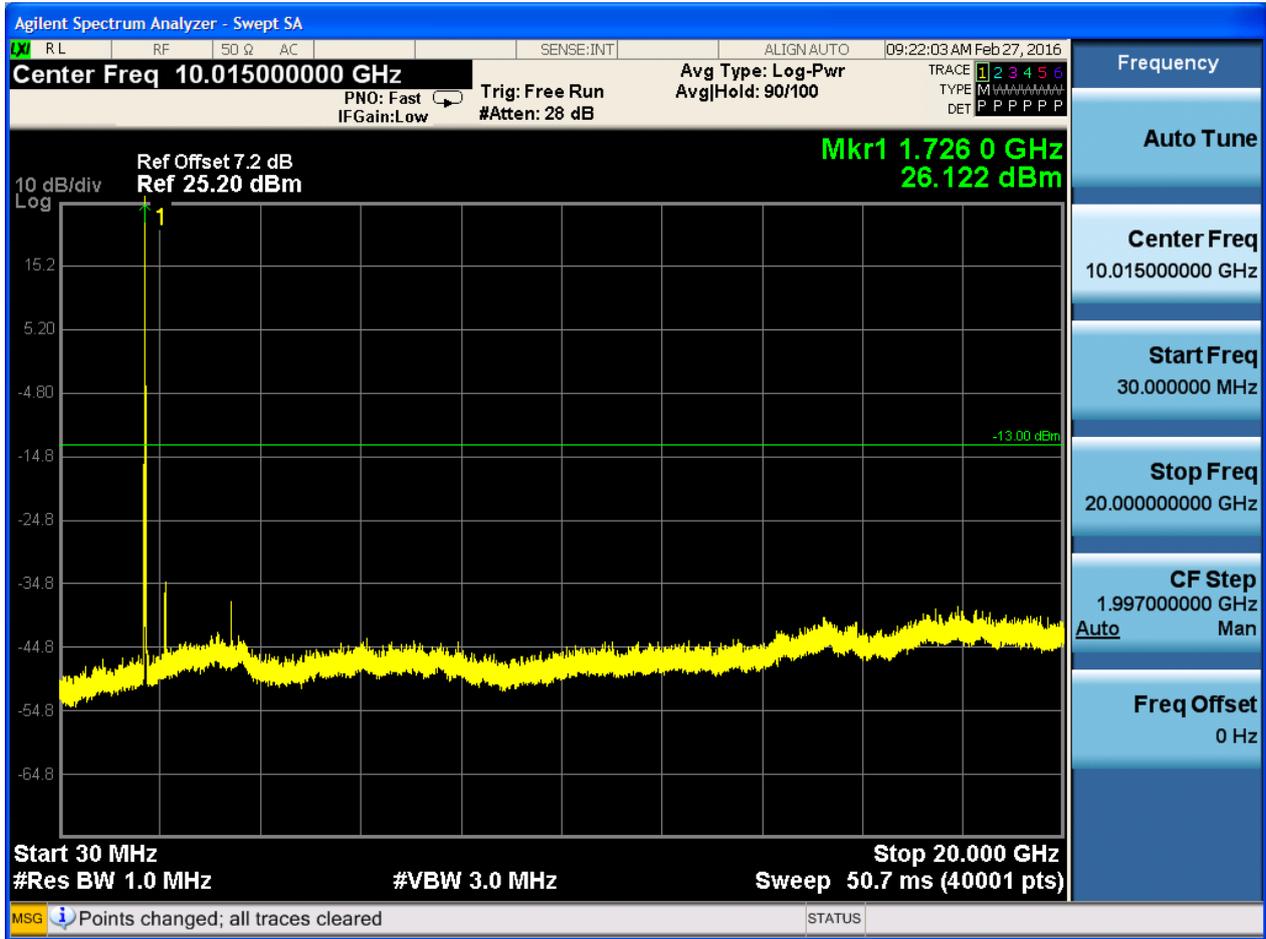
6.1.1.2.5.1.1 Test RB = RB1#0







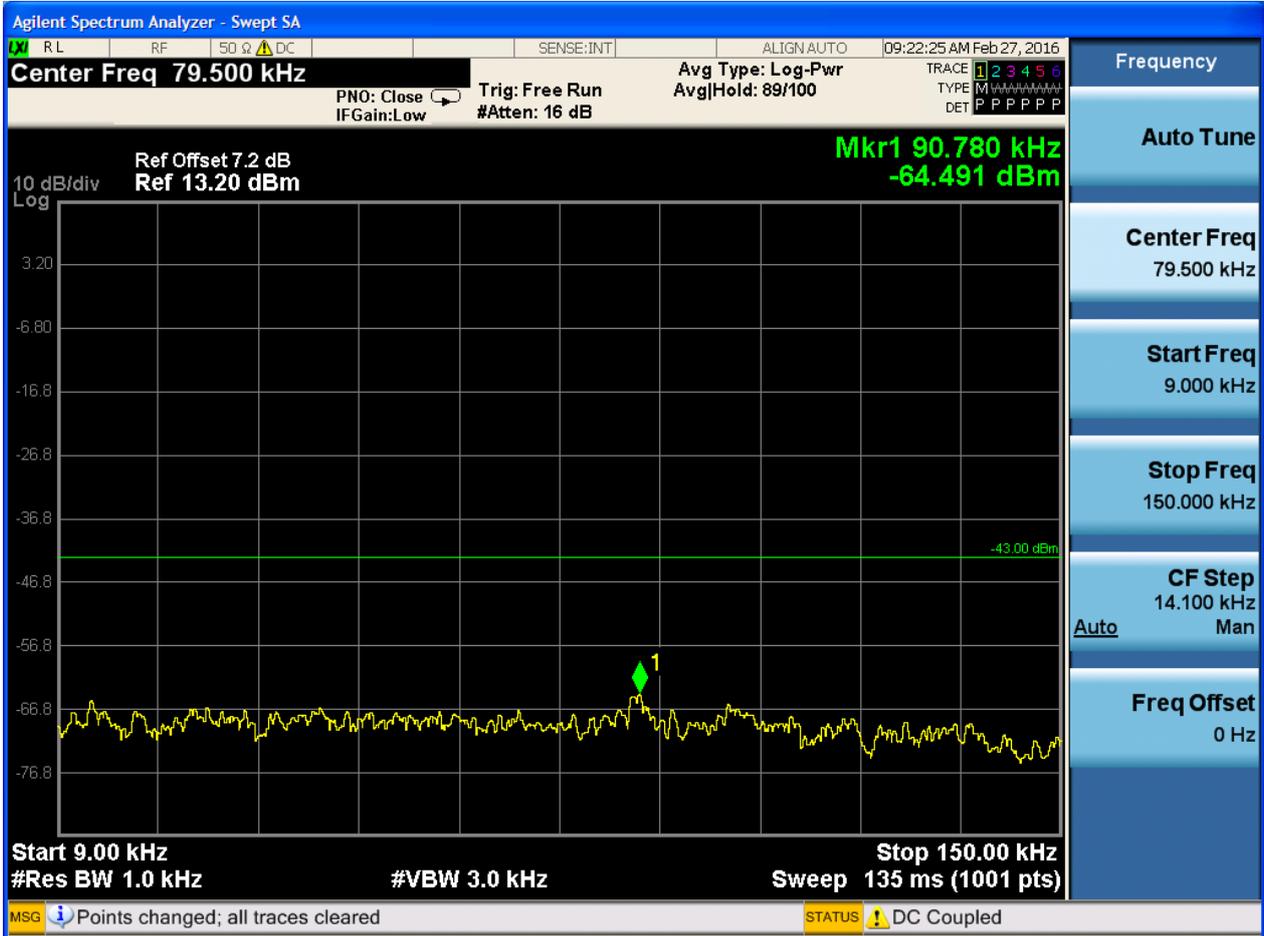


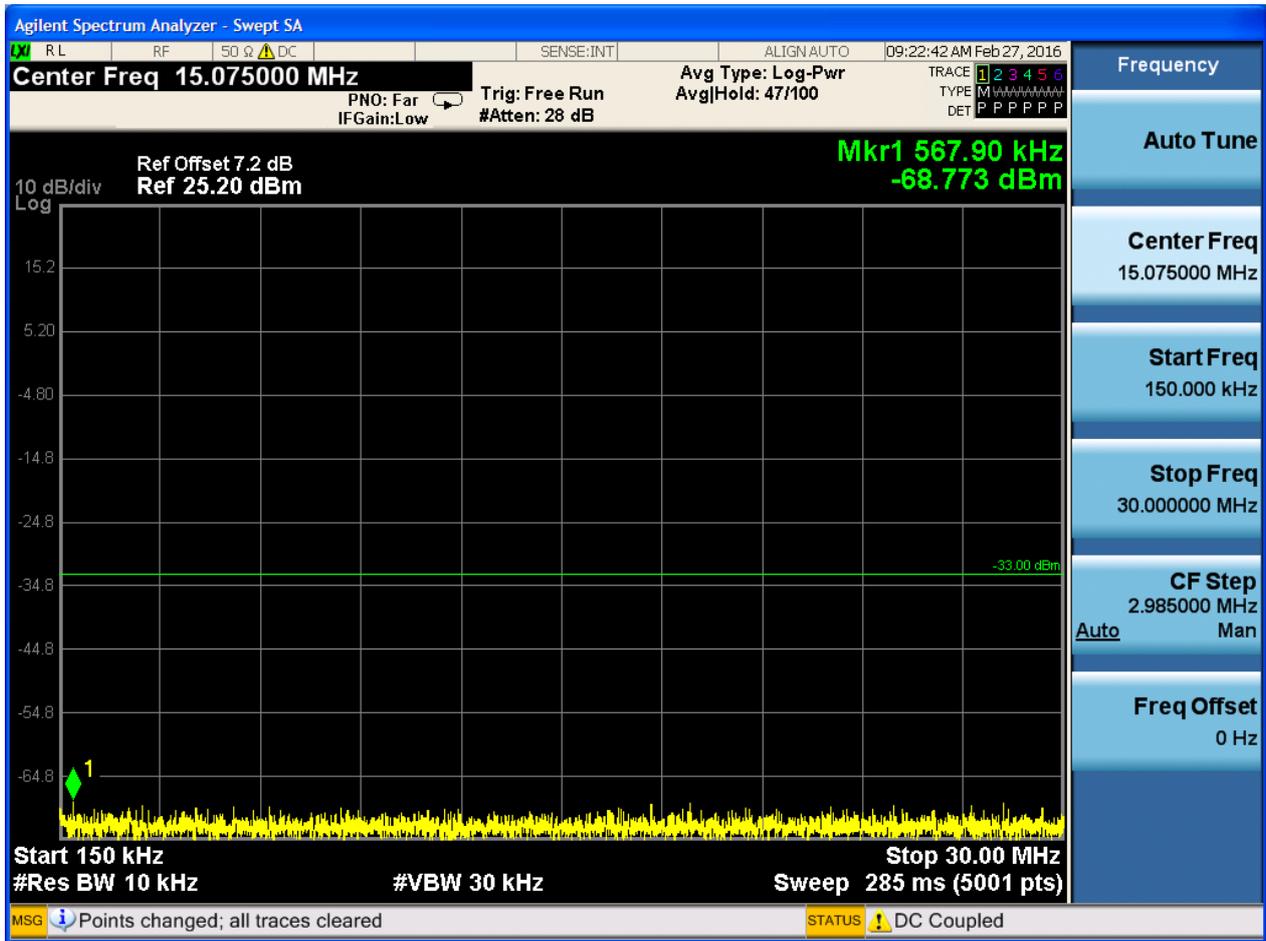


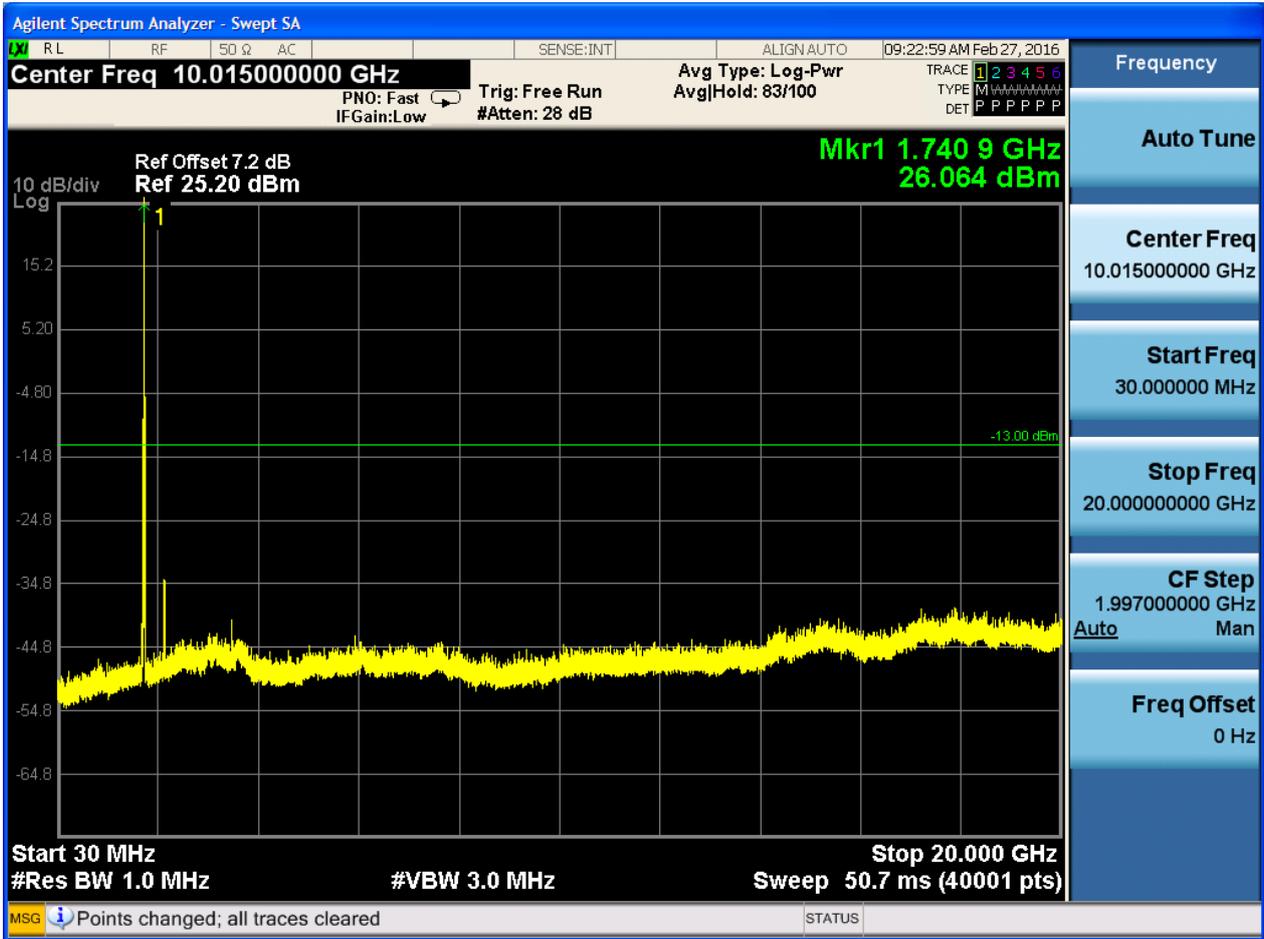


6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0





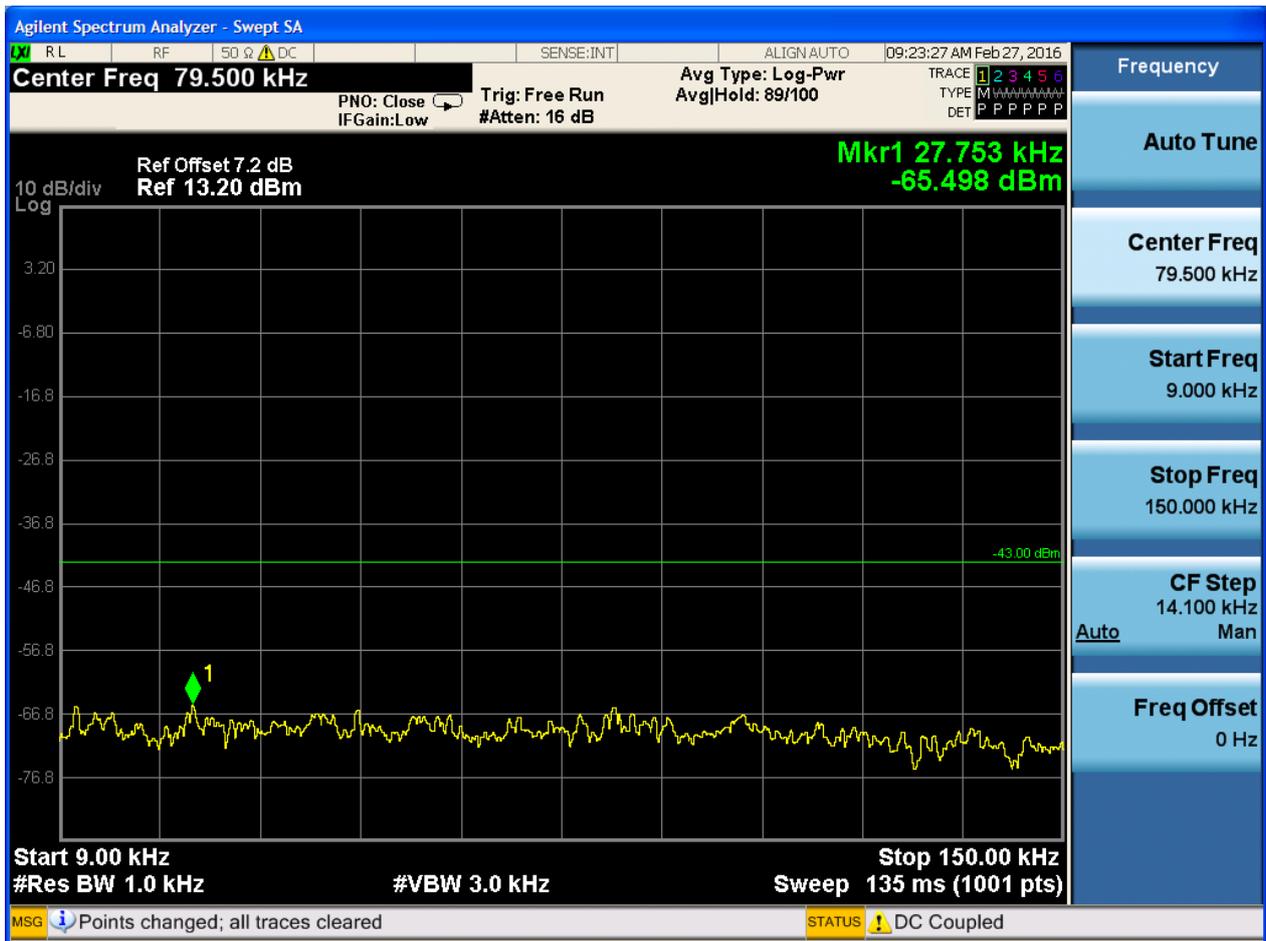




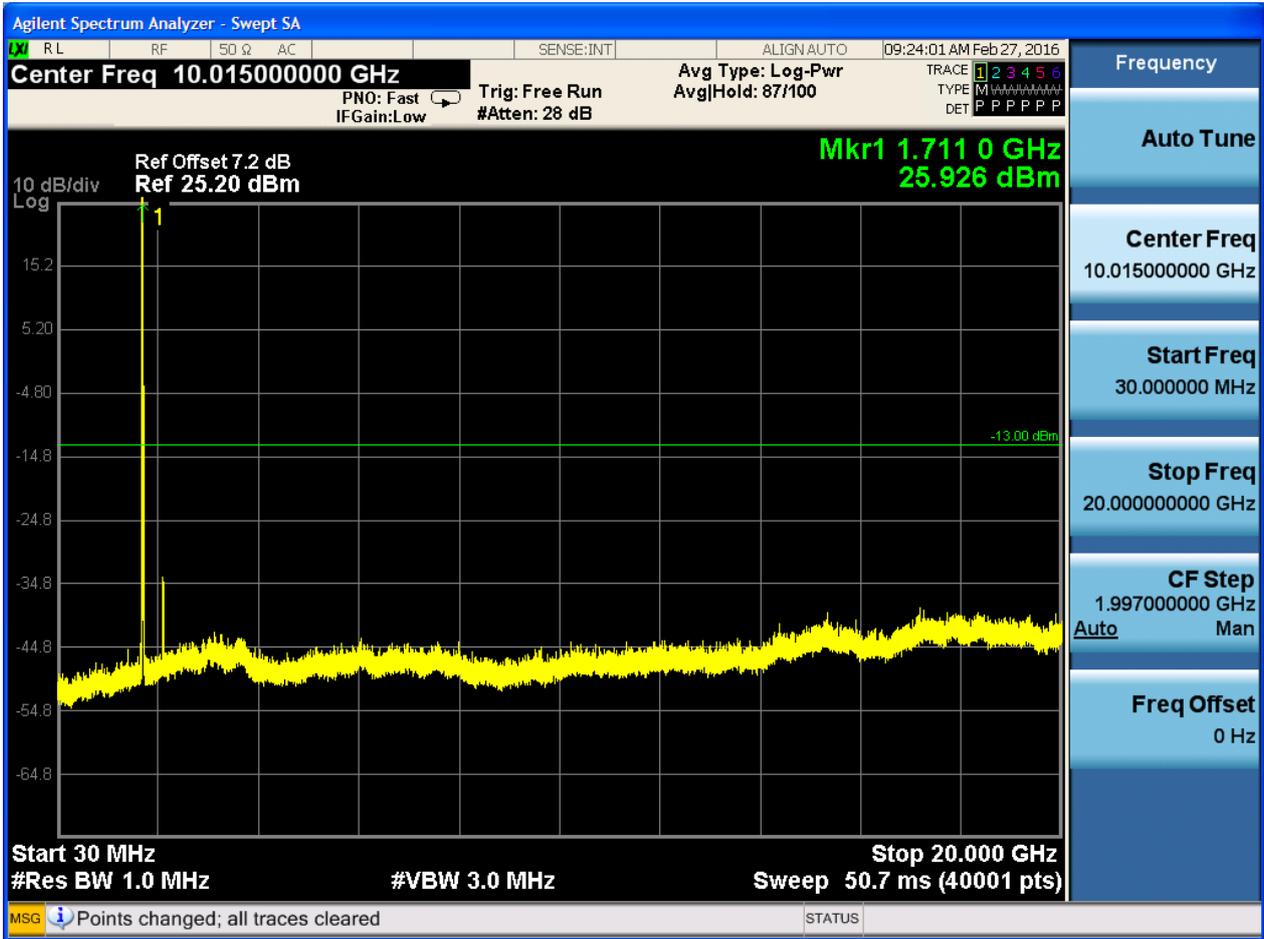
6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0



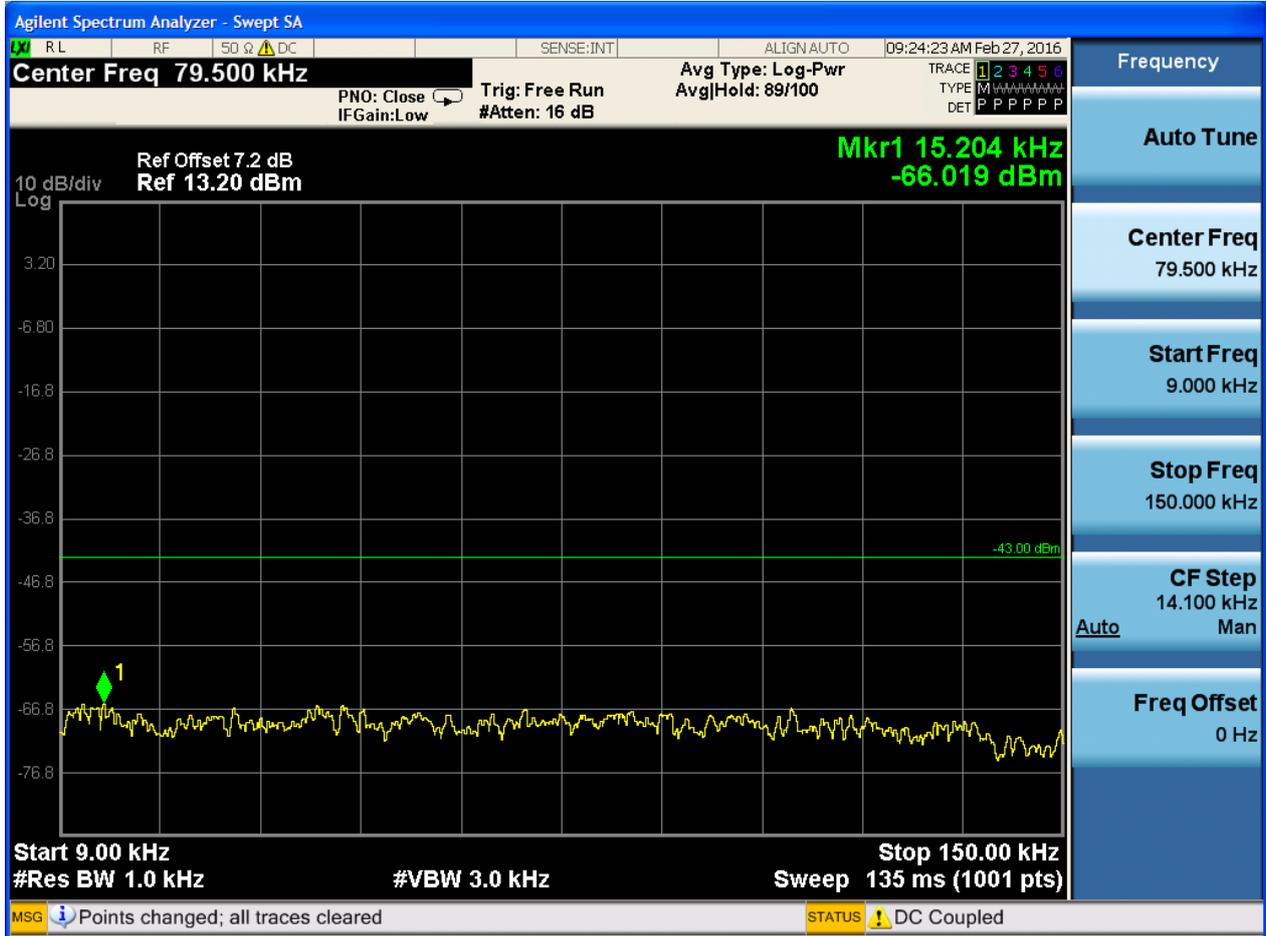




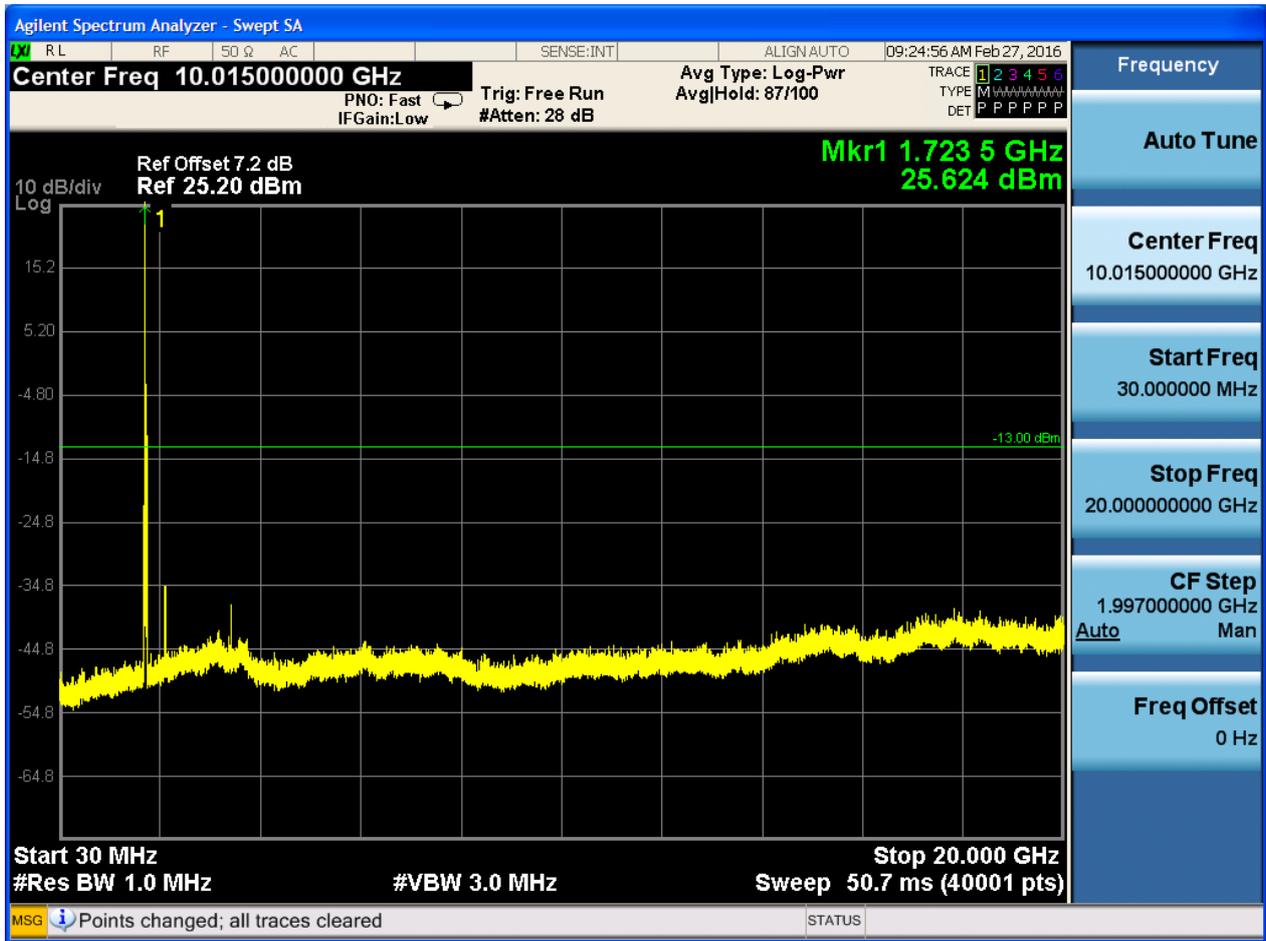


6.1.1.2.6.2 Test Channel = MCH

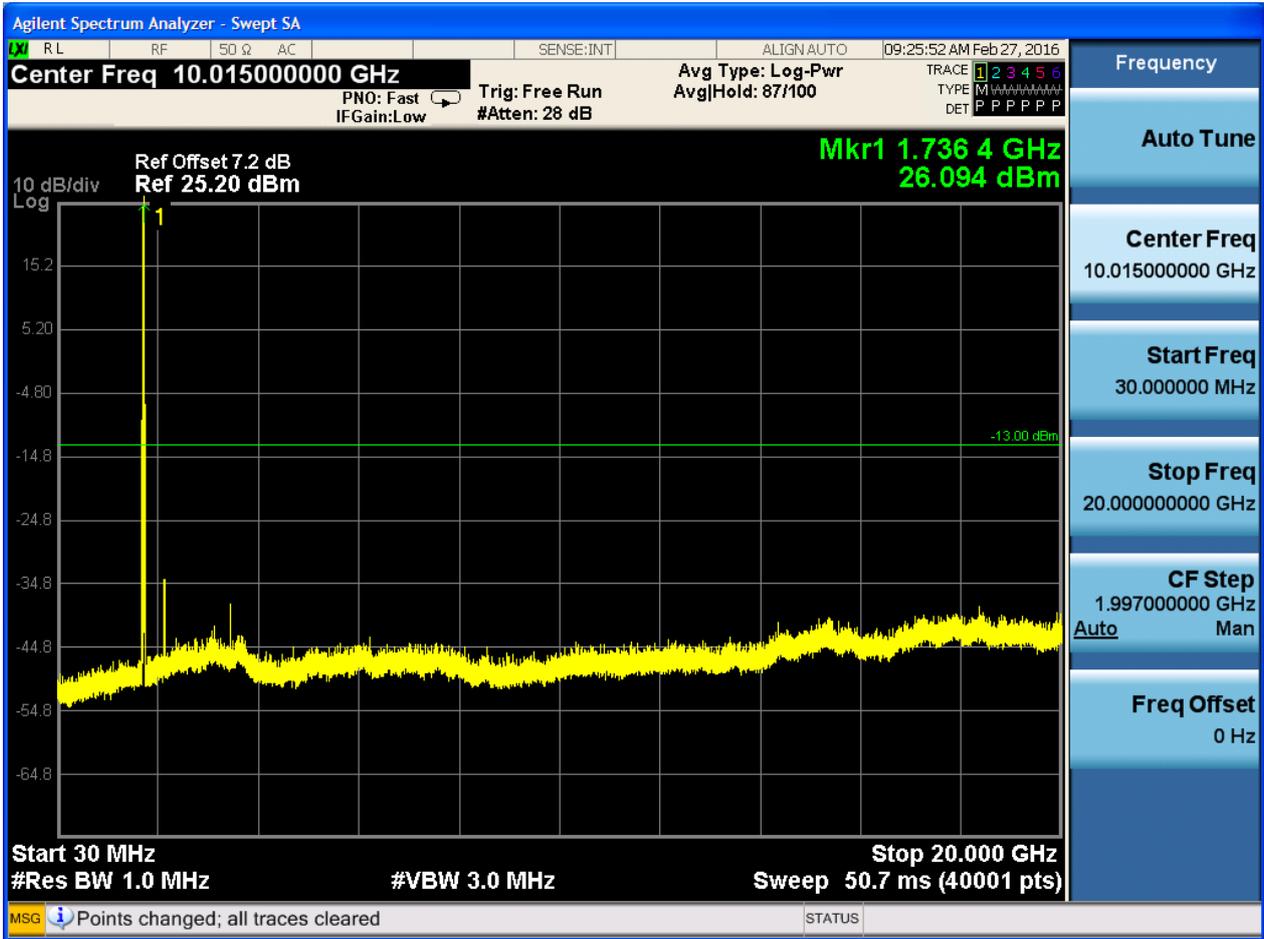
6.1.1.2.6.2.1 Test RB = RB1#0











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

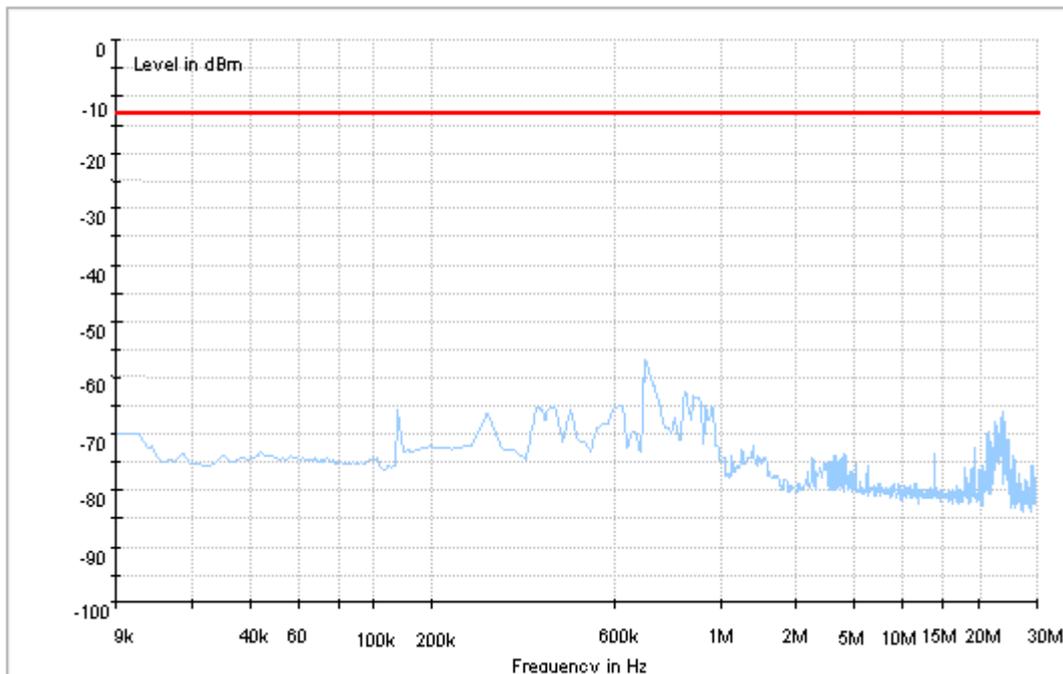
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

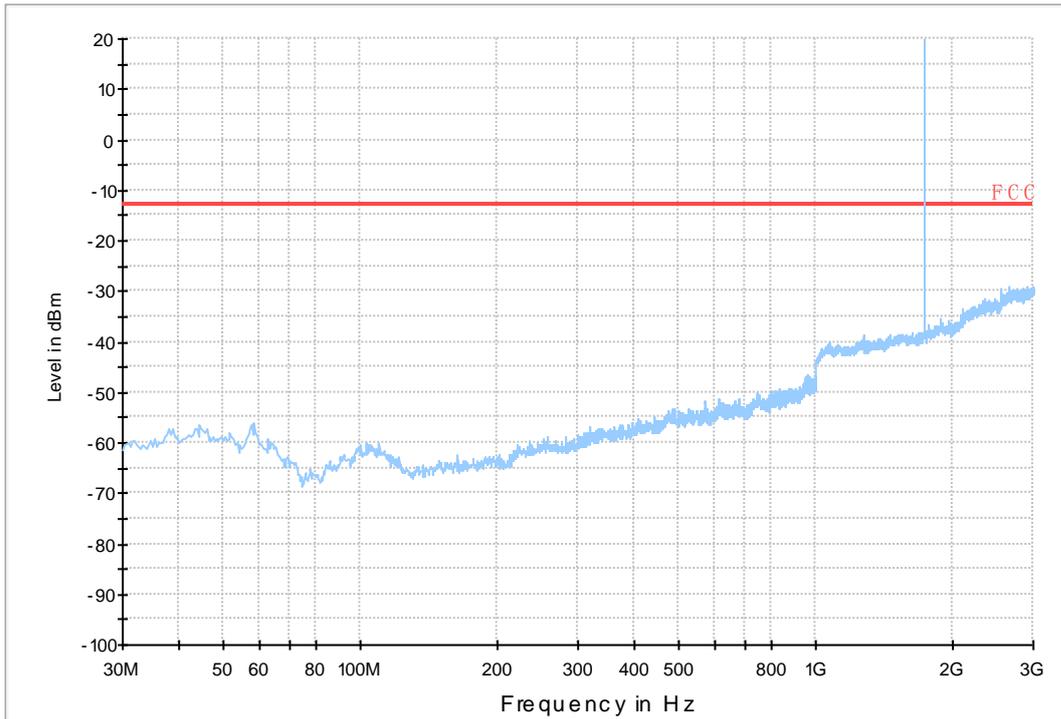
7.1 For LTE

7.1.1 Test Band = BAND4

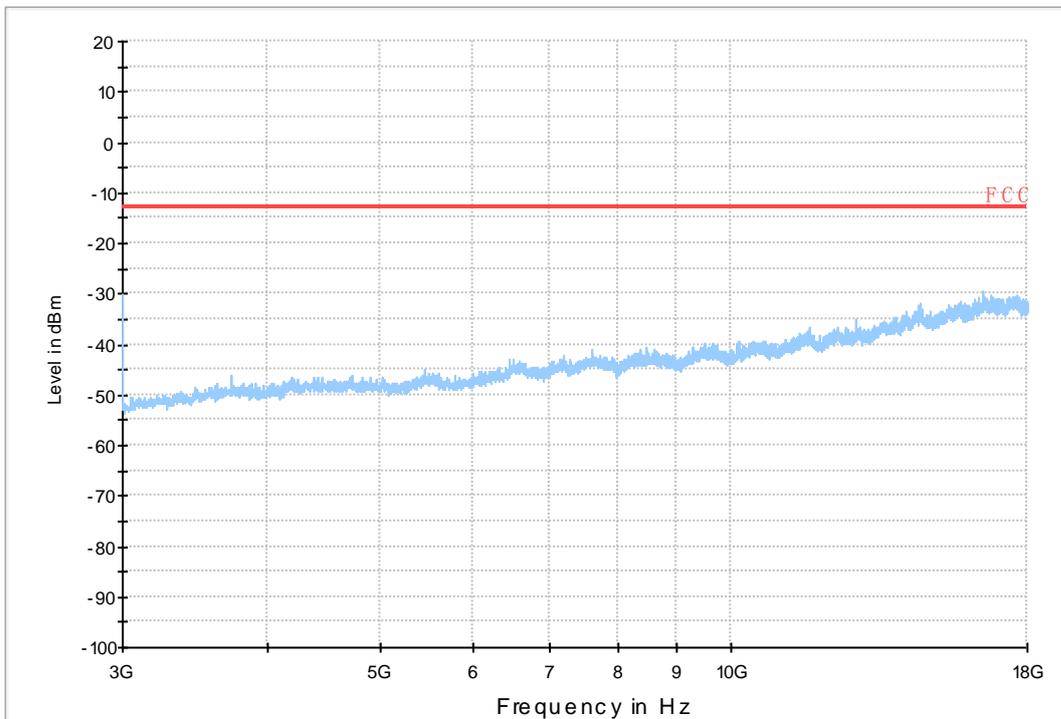
7.1.1.1 Test Bandwidth = 1.4



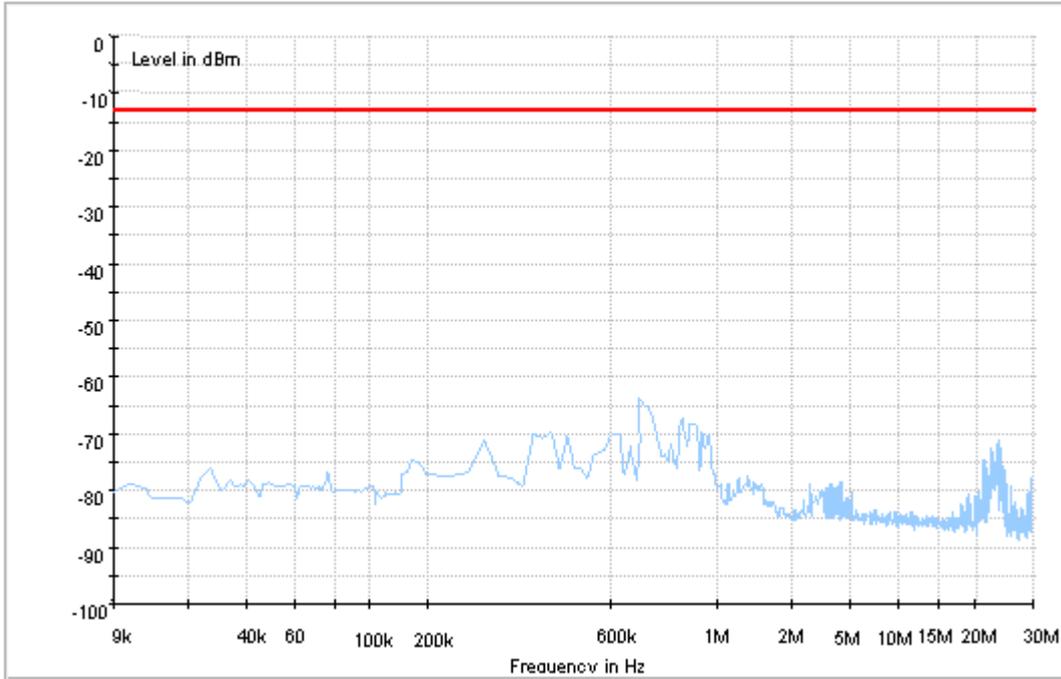
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



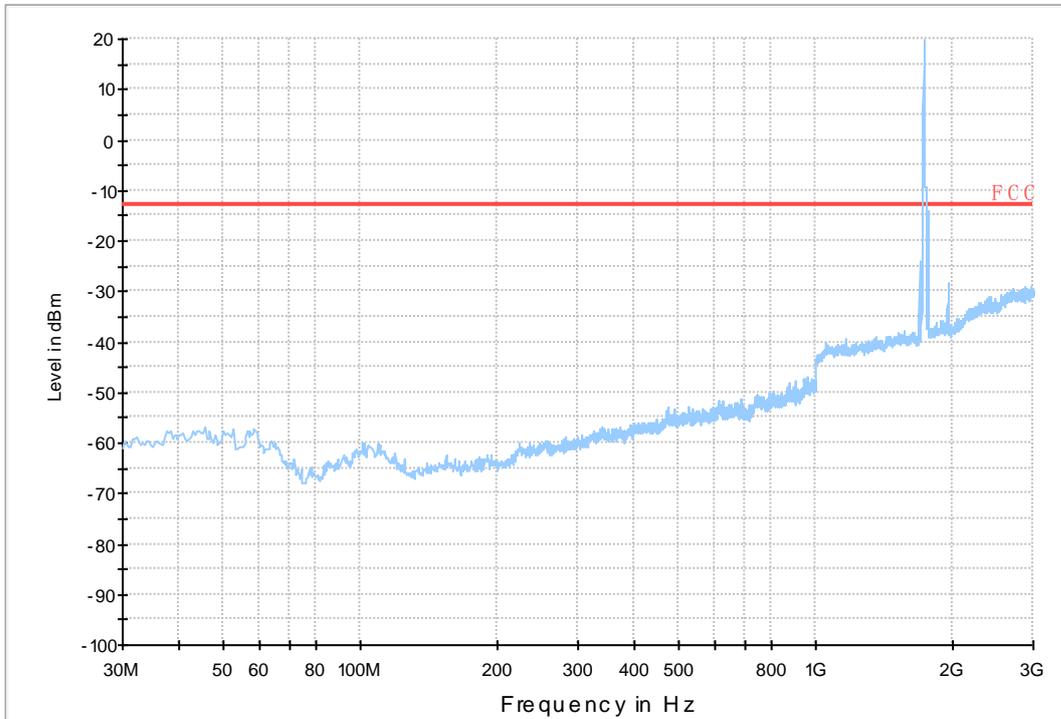
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



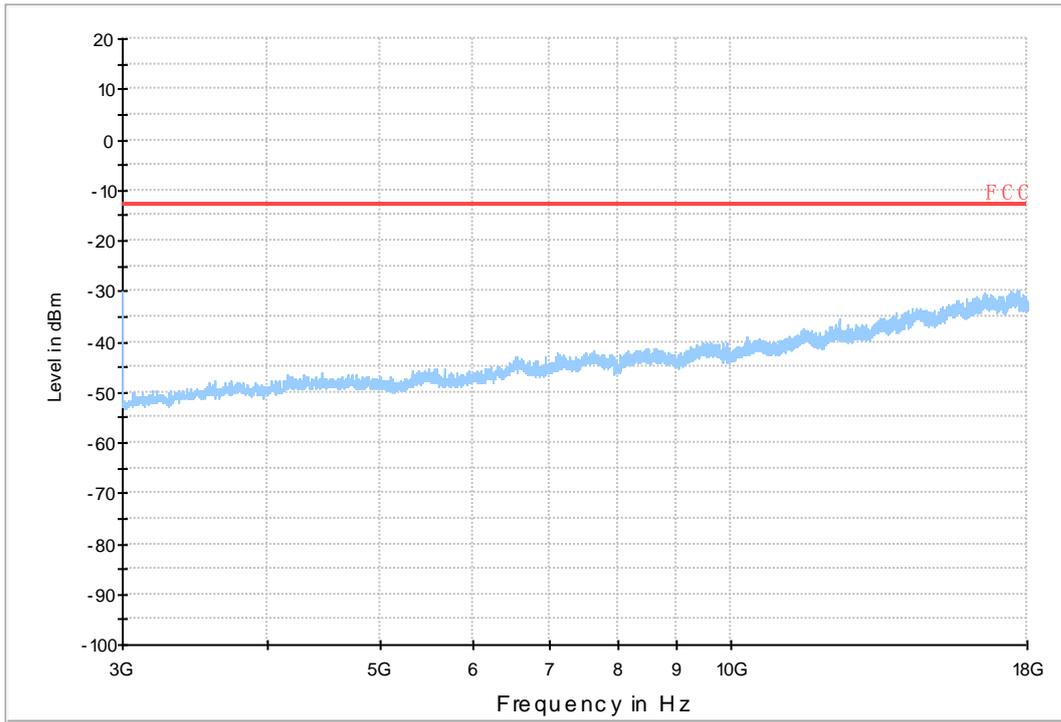
7.1.1.3 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_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
BAND4	LTE/TM1	1.4	LCH	TN	VL	16.12	0.00942	PASS
					VN	-35.39	-0.02069	PASS
					VH	-20.77	-0.01214	PASS
			MCH	TN	VL	7.55	0.00436	PASS
					VN	-0.1	-0.00006	PASS
					VH	-1.76	-0.00102	PASS
			HCH	TN	VL	-9.06	-0.00516	PASS
					VN	-0.49	-0.00028	PASS
					VH	-2.03	-0.00116	PASS
		3	LCH	TN	VL	-3.71	-0.00217	PASS
					VN	1.97	0.00115	PASS
					VH	-5.59	-0.00327	PASS
			MCH	TN	VL	3.25	0.00188	PASS
					VN	5.26	0.00304	PASS
					VH	1.66	0.00096	PASS
			HCH	TN	VL	-5.08	-0.0029	PASS
					VN	-1.85	-0.00106	PASS
					VH	1.39	0.00079	PASS
		5	LCH	TN	VL	2.39	0.0014	PASS
					VN	2.98	0.00174	PASS
					VH	1.07	0.00062	PASS
			MCH	TN	VL	-0.86	-0.0005	PASS
					VN	-1.16	-0.00067	PASS
					VH	0.39	0.00023	PASS
			HCH	TN	VL	-5.16	-0.00294	PASS
					VN	-0.63	-0.00036	PASS
					VH	-1.77	-0.00101	PASS
		10	LCH	TN	VL	-2.93	-0.00171	PASS
					VN	-2.47	-0.00144	PASS
					VH	-2.36	-0.00138	PASS
MCH	TN		VL	-3.05	-0.00176	PASS		
			VN	-1.57	-0.00091	PASS		
			VH	-3.29	-0.0019	PASS		
HCH	TN	VL	1.3	0.00074	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		15	LCH	TN	VN	-1.46	-0.00083	PASS	
					VH	4.65	0.00266	PASS	
					VL	-0.37	-0.00022	PASS	
			MCH	TN	VN	3.93	0.00229	PASS	
					VH	1.93	0.00112	PASS	
					VL	3.3	0.0019	PASS	
		HCH	TN	VN	1.96	0.00113	PASS		
				VH	-1.43	-0.00083	PASS		
				VL	2.55	0.00146	PASS		
		20	LCH	TN	VN	4.11	0.00235	PASS	
					VH	7.78	0.00445	PASS	
					VL	-1.34	-0.00078	PASS	
			MCH	TN	VN	-0.94	-0.00055	PASS	
					VH	-1.57	-0.00091	PASS	
					VL	-2.15	-0.00124	PASS	
		HCH	TN	VN	-0.69	-0.0004	PASS		
				VH	1.13	0.00065	PASS		
				VL	-0.04	-0.00002	PASS		
		LTE/TM2	1.4	LCH	TN	VN	2.42	0.00139	PASS
						VH	2.55	0.00146	PASS
						VL	-23.57	-0.01378	PASS
				MCH	TN	VN	-2.95	-0.00172	PASS
						VH	-31.47	-0.0184	PASS
						VL	-7.41	-0.00428	PASS
			HCH	TN	VN	-4.15	-0.0024	PASS	
					VH	-3.69	-0.00213	PASS	
					VL	0.56	0.00032	PASS	
			3	LCH	TN	VN	-2.6	-0.00148	PASS
						VH	-4.81	-0.00274	PASS
						VL	-6.49	-0.00379	PASS
				MCH	TN	VN	-10.8	-0.00631	PASS
						VH	-8.47	-0.00495	PASS
						VL	-3.33	-0.00192	PASS
			HCH	TN	VN	-2.27	-0.00131	PASS	
					VH	-0.39	-0.00023	PASS	
					VL	2.07	0.00118	PASS	
		5	LCH	TN	VN	-1.7	-0.00097	PASS	
					VH	0.34	0.00019	PASS	
					VL	-0.6	-0.00035	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					VN	0.59	0.00034	PASS	
					VH	1.26	0.00074	PASS	
					VL	3.88	0.00224	PASS	
			MCH	TN	VN	3.82	0.0022	PASS	
					VH	0.34	0.0002	PASS	
					VL	-1.16	-0.00066	PASS	
			HCH	TN	VN	-3.02	-0.00172	PASS	
					VH	-3.56	-0.00203	PASS	
					VL	-7.87	-0.00459	PASS	
		10	LCH	TN	VN	-4.75	-0.00277	PASS	
					VH	-2.33	-0.00136	PASS	
					VL	-4.03	-0.00233	PASS	
			MCH	TN	VN	-2.82	-0.00163	PASS	
					VH	1.77	0.00102	PASS	
					VL	2.07	0.00118	PASS	
			HCH	TN	VN	2.36	0.00135	PASS	
					VH	-0.8	-0.00046	PASS	
					VL	0.73	0.00043	PASS	
			15	LCH	TN	VN	0.46	0.00027	PASS
						VH	0.84	0.00049	PASS
						VL	1.3	0.00075	PASS
		MCH		TN	VN	2.52	0.00145	PASS	
					VH	0.27	0.00016	PASS	
					VL	7.74	0.00443	PASS	
		HCH		TN	VN	3.35	0.00192	PASS	
					VH	2.06	0.00118	PASS	
					VL	-2.88	-0.00167	PASS	
		20	LCH	TN	VN	-1.65	-0.00096	PASS	
					VH	-1.95	-0.00113	PASS	
					VL	-1.03	-0.00059	PASS	
			MCH	TN	VN	0.14	0.00008	PASS	
					VH	2	0.00115	PASS	
					VL	1.07	0.00061	PASS	
			HCH	TN	VN	-0.73	-0.00042	PASS	
					VH	-0.31	-0.00018	PASS	
					VL				

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
BAND4	LTE/TM1	1.4	LCH	VN	-30	-20.14	-0.01177	PASS
					-20	1.2	0.0007	PASS
					-10	-6.42	-0.00375	PASS
					0	-16.05	-0.00938	PASS
					10	-5.79	-0.00338	PASS
					20	-19.13	-0.01118	PASS
					30	-8.55	-0.005	PASS
					40	-6.64	-0.00388	PASS
			50	-4.12	-0.00241	PASS		
			MCH	VN	-30	-7.93	-0.00458	PASS
					-20	-8.11	-0.00468	PASS
					-10	-1.37	-0.00079	PASS
					0	-10.46	-0.00604	PASS
					10	3.91	0.00226	PASS
					20	-10.99	-0.00634	PASS
					30	-0.51	-0.00029	PASS
					40	-2.6	-0.0015	PASS
			50	-0.56	-0.00032	PASS		
			HCH	VN	-30	-1.7	-0.00097	PASS
					-20	-4.56	-0.0026	PASS
					-10	-1.03	-0.00059	PASS
					0	-1.8	-0.00103	PASS
					10	-0.76	-0.00043	PASS
					20	-7.4	-0.00422	PASS
		30			0.51	0.00029	PASS	
		40			-5.99	-0.00341	PASS	
		50	-6.75	-0.00385	PASS			
		3	LCH	VN	-30	-9.18	-0.00536	PASS
					-20	-6.17	-0.00361	PASS
					-10	-3.91	-0.00228	PASS
					0	1.02	0.0006	PASS
					10	-1.43	-0.00084	PASS
					20	-3.95	-0.00231	PASS
					30	0.03	0.00002	PASS
					40	-6.02	-0.00352	PASS
					50	-1.8	-0.00105	PASS
MCH	VN				-30	5.38	0.00311	PASS
			-20	1.9	0.0011	PASS		

				-10	3.49	0.00201	PASS	
				0	0.26	0.00015	PASS	
				10	3.91	0.00226	PASS	
				20	-4.78	-0.00276	PASS	
				30	0.41	0.00024	PASS	
				40	8.17	0.00472	PASS	
				50	-1.7	-0.00098	PASS	
			HCH	VN	-30	-2.72	-0.00155	PASS
					-20	-2.02	-0.00115	PASS
					-10	-2.59	-0.00148	PASS
					0	-0.67	-0.00038	PASS
					10	-0.33	-0.00019	PASS
					20	0.92	0.00052	PASS
					30	0.01	0.00001	PASS
		5	LCH	VN	40	-0.14	-0.00008	PASS
					50	0.24	0.00014	PASS
					-30	-7	-0.00409	PASS
					-20	-0.6	-0.00035	PASS
					-10	-0.87	-0.00051	PASS
					0	-2.73	-0.00159	PASS
					10	0.63	0.00037	PASS
					20	-3.95	-0.00231	PASS
			MCH	VN	30	1.22	0.00071	PASS
					40	1.29	0.00075	PASS
					50	-3.75	-0.00219	PASS
					-30	-0.67	-0.00039	PASS
					-20	-4.05	-0.00234	PASS
					-10	5.41	0.00312	PASS
					0	0.36	0.00021	PASS
					10	1.54	0.00089	PASS
		HCH	VN	20	-2.7	-0.00156	PASS	
				30	-1.42	-0.00082	PASS	
				40	0.3	0.00017	PASS	
				50	-3.09	-0.00178	PASS	
				-30	1.42	0.00081	PASS	
				-20	-0.87	-0.00005	PASS	
				-10	0.76	0.00043	PASS	
				0	0.44	0.00025	PASS	
					10	0.11	0.00006	PASS
					20	-1.00	-0.00057	PASS
30	2.39				0.00136	PASS		
40	0.01				0.00001	PASS		



					50	-0.60	-0.00034	PASS
		10	LCH	VN	-30	-0.82	-0.00048	PASS
					-20	-0.37	-0.00022	PASS
					-10	-1.12	-0.00065	PASS
					0	-1.96	-0.00114	PASS
					10	-0.34	-0.0002	PASS
					20	-1.99	-0.00116	PASS
					30	-1.59	-0.00093	PASS
					40	-3.22	-0.00188	PASS
					50	-0.30	-0.00017	PASS
			MCH	VN	-30	0.62	0.00036	PASS
					-20	1.54	0.00089	PASS
					-10	2.19	0.00126	PASS
					0	0.17	0.0001	PASS
					10	0.41	0.00024	PASS
					20	-0.06	-0.00003	PASS
		30			-0.40	-0.00023	PASS	
		40			-0.11	-0.00006	PASS	
		50	-0.64	-0.00037	PASS			
		HCH	VN	-30	-1.86	-0.00106	PASS	
				-20	-1.19	-0.00068	PASS	
				-10	-0.84	-0.00048	PASS	
				0	-3.20	-0.00183	PASS	
				10	-1.82	-0.00104	PASS	
				20	-1.57	-0.0009	PASS	
				30	-2.80	-0.0016	PASS	
				40	-2.47	-0.00141	PASS	
				50	-1.85	-0.00106	PASS	
		15	LCH	VN	-30	-1.12	-0.00065	PASS
					-20	-0.54	-0.00031	PASS
					-10	0.66	0.00038	PASS
					0	0.41	0.00024	PASS
					10	1.02	0.00059	PASS
					20	1.52	0.00089	PASS
					30	-0.64	-0.00037	PASS
					40	-0.03	-0.00002	PASS
					50	0.23	0.00013	PASS
			MCH	VN	-30	0.31	0.00018	PASS
					-20	-0.29	-0.00017	PASS
					-10	0.72	0.00042	PASS
					0	-0.23	-0.00013	PASS
					10	1.33	0.00077	PASS



					20	1.02	0.00059	PASS
					30	0.27	0.00016	PASS
					40	1.02	0.00059	PASS
					50	-1.06	-0.00061	PASS
			HCH	VN	-30	0.63	0.00036	PASS
					-20	1.13	0.00065	PASS
					-10	-0.17	-0.0001	PASS
					0	0.54	0.00031	PASS
					10	2.10	0.0012	PASS
					20	1.75	0.001	PASS
					30	1.22	0.0007	PASS
					40	0.34	0.00019	PASS
					50	0.24	0.00014	PASS
		LCH	VN	-30	-2.63	-0.00153	PASS	
				-20	-2.32	-0.00135	PASS	
				-10	-2.06	-0.0012	PASS	
				0	-1.56	-0.00091	PASS	
				10	-2.73	-0.00159	PASS	
				20	-3.60	-0.00209	PASS	
				30	-2.17	-0.00126	PASS	
				40	-4.16	-0.00242	PASS	
				50	-3.09	-0.0018	PASS	
		MCH	VN	-30	1.17	0.00068	PASS	
				-20	-0.64	-0.00037	PASS	
				-10	0.27	0.00016	PASS	
				0	0.79	0.00046	PASS	
				10	1.22	0.0007	PASS	
				20	0.54	0.00031	PASS	
				30	-0.01	-0.00001	PASS	
				40	1.66	0.00096	PASS	
				50	1.47	0.00085	PASS	
		HCH	VN	-30	0.64	0.00037	PASS	
				-20	-1.82	-0.00104	PASS	
				-10	-1.13	-0.00065	PASS	
				0	0.03	0.00002	PASS	
				10	-0.84	-0.00048	PASS	
20	-2.27			-0.0013	PASS			
30	-0.66			-0.00038	PASS			
40	-2.79			-0.0016	PASS			
50	-0.57			-0.00033	PASS			
LTE/TM2	1.4	LCH	VN	-30	-1.20	-0.0007	PASS	
				-20	1.43	0.00084	PASS	



					-10	0.09	0.00005	PASS	
					0	0.01	0.00001	PASS	
					10	-1.19	-0.0007	PASS	
					20	0.20	0.00012	PASS	
					30	-0.33	-0.00019	PASS	
					40	-2.42	-0.00141	PASS	
					50	-2.12	-0.00124	PASS	
			MCH	VN	-30	0.21	0.00012	PASS	
					-20	0.70	0.0004	PASS	
					-10	-1.22	-0.0007	PASS	
					0	0.43	0.00025	PASS	
					10	0.16	0.00009	PASS	
					20	1.70	0.00098	PASS	
					30	0.19	0.00011	PASS	
					40	-1.30	-0.00075	PASS	
			HCH	VN	50	1.57	0.00091	PASS	
					-30	0.59	0.00034	PASS	
					-20	-3.25	-0.00185	PASS	
					-10	0.21	0.00012	PASS	
					0	0.44	0.00025	PASS	
					10	0.89	0.00051	PASS	
					20	-0.17	-0.0001	PASS	
					30	-1.30	-0.00074	PASS	
			3	LCH	VN	40	-0.57	-0.00032	PASS
						50	2.66	0.00152	PASS
						-30	0.37	0.00022	PASS
						-20	-2.26	-0.00132	PASS
						-10	-0.31	-0.00018	PASS
						0	1.52	0.00089	PASS
						10	0.89	0.00052	PASS
				MCH	VN	20	-0.80	-0.00047	PASS
						30	-0.57	-0.00033	PASS
						40	1.47	0.00086	PASS
			50			0.74	0.00043	PASS	
			-30			-0.50	-0.00029	PASS	
			-20			-1.23	-0.00071	PASS	
			-10			-2.73	-0.00158	PASS	
						0	-1.40	-0.00081	PASS
						10	-3.02	-0.00174	PASS
						20	-1.13	-0.00065	PASS
30	-0.90	-0.00052				PASS			
40	-0.33	-0.00019				PASS			



			HCH	VN	50	0.21	0.00012	PASS			
					-30	1.36	0.00078	PASS			
					-20	0.46	0.00026	PASS			
					-10	0.07	0.00004	PASS			
					0	0.84	0.00048	PASS			
					10	-1.65	-0.00094	PASS			
					20	0.16	0.00009	PASS			
					30	1.75	0.001	PASS			
					40	-0.34	-0.00019	PASS			
					50	1.79	0.00102	PASS			
					5	LCH	VN	-30	-2.99	-0.00175	PASS
								-20	-2.32	-0.00135	PASS
								-10	-2.72	-0.00159	PASS
								0	-0.09	-0.00005	PASS
								10	-2.25	-0.00131	PASS
		20	-2.05	-0.0012				PASS			
		30	-2.20	-0.00128				PASS			
		40	-1.30	-0.00076				PASS			
		50	-1.50	-0.00088				PASS			
		5	MCH	VN				-30	1.30	0.00075	PASS
								-20	0.19	0.00011	PASS
								-10	1.44	0.00083	PASS
								0	-1.36	-0.00078	PASS
								10	0.53	0.00031	PASS
								20	1.99	0.00115	PASS
					30	0.16	0.00009	PASS			
					40	-0.73	-0.00042	PASS			
					50	1.75	0.00101	PASS			
					5	HCH	VN	-30	-0.14	-0.00008	PASS
								-20	-1.97	-0.00112	PASS
								-10	-0.34	-0.00019	PASS
								0	-2.07	-0.00118	PASS
								10	0.93	0.00053	PASS
								20	-0.20	-0.00011	PASS
		30	-2.25	-0.00128				PASS			
		40	-1.00	-0.00057				PASS			
		50	-1.54	-0.00088				PASS			
		10	LCH	VN				-30	0.79	0.00046	PASS
								-20	-2.43	-0.00142	PASS
								-10	-0.03	-0.00002	PASS
								0	-1.63	-0.00095	PASS
								10	-1.54	-0.0009	PASS

					20	-0.30	-0.00017	PASS		
					30	-2.82	-0.00164	PASS		
					40	-1.47	-0.00086	PASS		
					50	0.36	0.00021	PASS		
			MCH	VN	-30	0.49	0.00028	PASS		
					-20	0.30	0.00017	PASS		
					-10	0.49	0.00028	PASS		
					0	-0.24	-0.00014	PASS		
					10	-2.56	-0.00148	PASS		
					20	-0.69	-0.0004	PASS		
					30	0.49	0.00028	PASS		
					40	-1.73	-0.001	PASS		
					50	-1.20	-0.00069	PASS		
					HCH	VN	-30	-2.20	-0.00126	PASS
							-20	-3.76	-0.00215	PASS
							-10	-1.54	-0.00088	PASS
			0	-3.08			-0.00176	PASS		
			10	-2.36			-0.00135	PASS		
			20	-3.06			-0.00175	PASS		
			30	-1.96			-0.00112	PASS		
			40	-3.08			-0.00176	PASS		
			15	LCH	VN	-30	0.39	0.00023	PASS	
						-20	0.40	0.00023	PASS	
						-10	1.69	0.00098	PASS	
						0	-0.23	-0.00013	PASS	
						10	0.62	0.00036	PASS	
						20	0.34	0.0002	PASS	
						30	1.66	0.00097	PASS	
						40	1.65	0.00096	PASS	
				MCH	VN	50	0.33	0.00019	PASS	
						-30	1.57	0.00091	PASS	
						-20	1.02	0.00059	PASS	
						-10	0.43	0.00025	PASS	
						0	1.52	0.00088	PASS	
						10	0.67	0.00039	PASS	
						20	2.26	0.0013	PASS	
						30	0.56	0.00032	PASS	
			HCH	VN	40	1.24	0.00072	PASS		
					50	-0.77	-0.00044	PASS		
					-30	0.01	0.00001	PASS		
					-20	0.50	0.00029	PASS		



					-10	2.63	0.00151	PASS			
					0	0.92	0.00053	PASS			
					10	1.12	0.00064	PASS			
					20	1.00	0.00057	PASS			
					30	1.09	0.00062	PASS			
					40	2.15	0.00123	PASS			
					50	1.24	0.00071	PASS			
		20	LCH	VN	-30	-2.30	-0.00134	PASS			
								-20	-1.36	-0.00079	PASS
								-10	-1.23	-0.00072	PASS
								0	-1.10	-0.00064	PASS
								10	-2.92	-0.0017	PASS
								20	-1.83	-0.00106	PASS
								30	-3.25	-0.00189	PASS
								40	-1.44	-0.00084	PASS
								50	-1.62	-0.00094	PASS
				MCH	VN	-30	-0.41	-0.00024	PASS		
								-20	0.47	0.00027	PASS
								-10	0.84	0.00048	PASS
								0	0.47	0.00027	PASS
								10	1.37	0.00079	PASS
								20	-0.31	-0.00018	PASS
								30	1.23	0.00071	PASS
								40	-0.51	-0.00029	PASS
						50	0.23	0.00013	PASS		
				HCH	VN	-30	-0.04	-0.00002	PASS		
								-20	-1.47	-0.00084	PASS
								-10	-1.72	-0.00099	PASS
								0	0.56	0.00032	PASS
								10	-0.41	-0.00023	PASS
								20	-0.13	-0.00007	PASS
								30	0.53	0.0003	PASS
								40	0.86	0.00049	PASS
						50	0.03	0.00002	PASS		

END