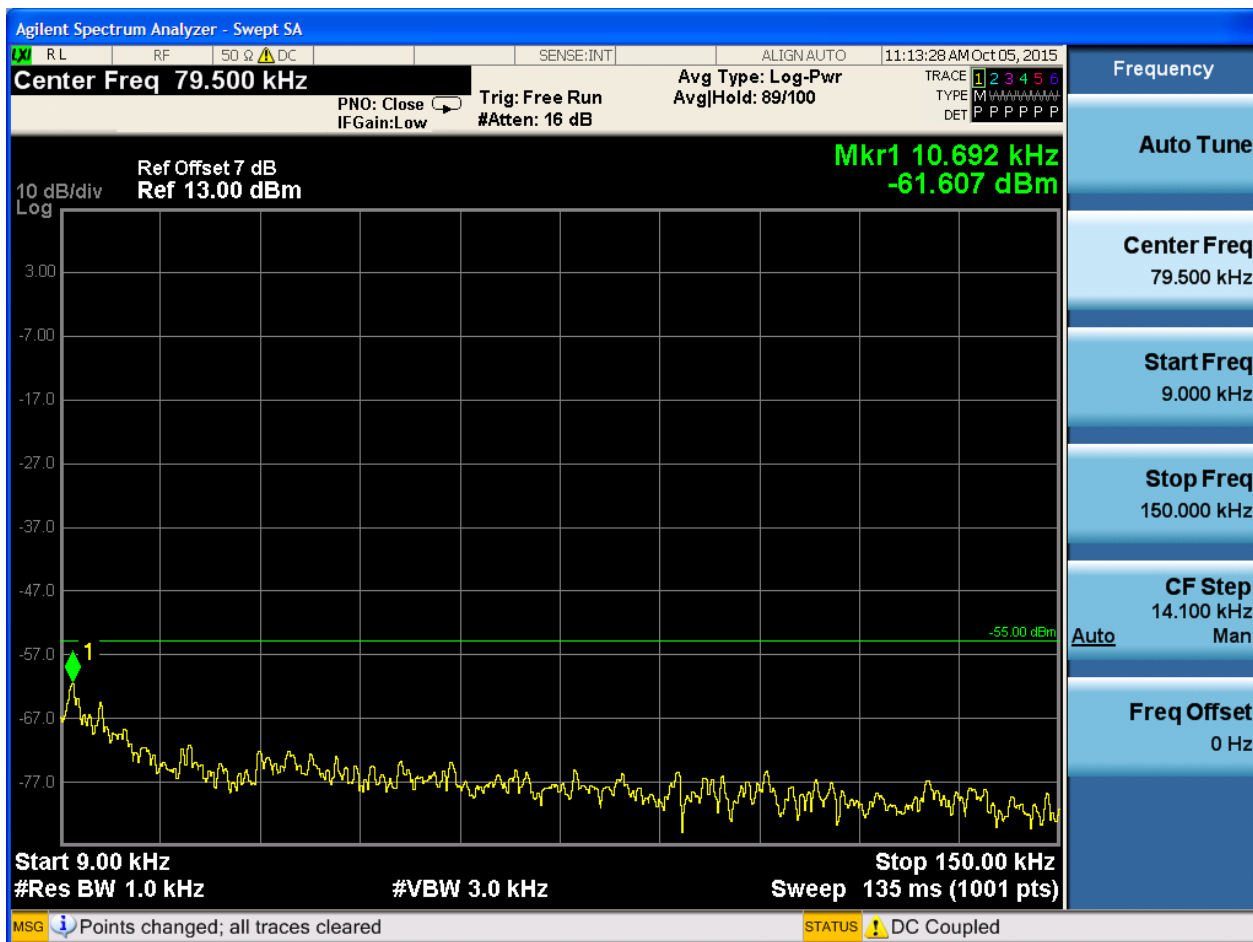


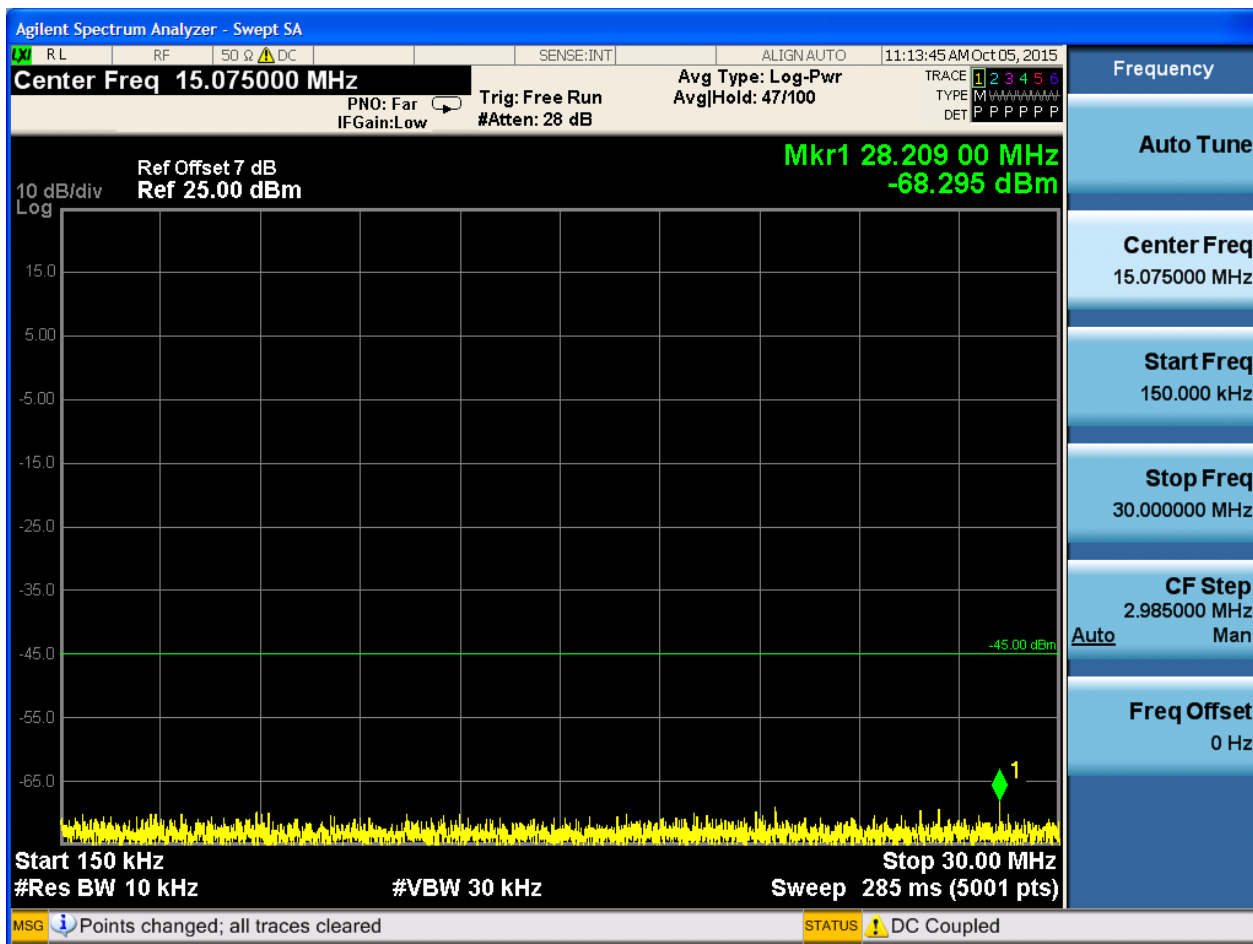


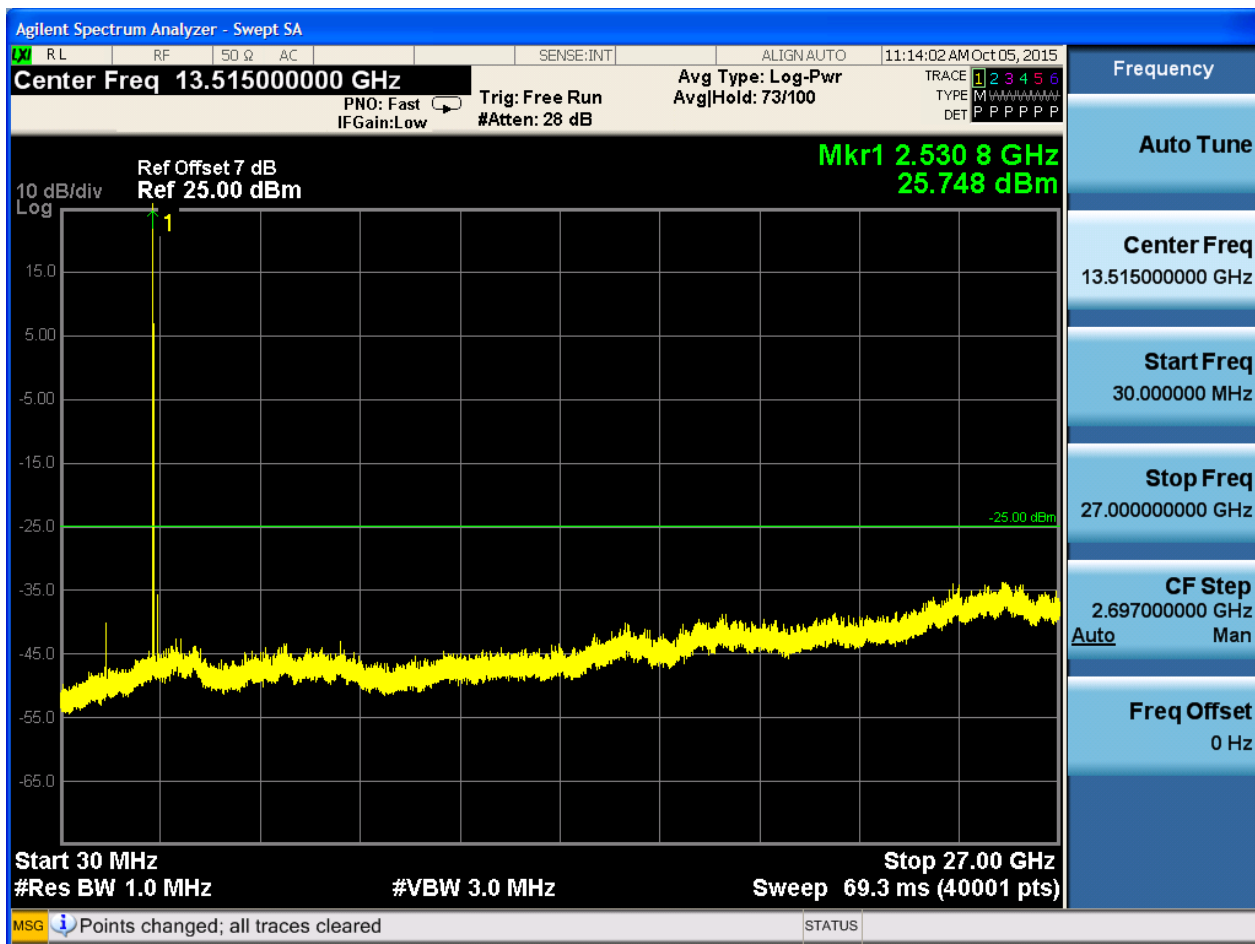


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



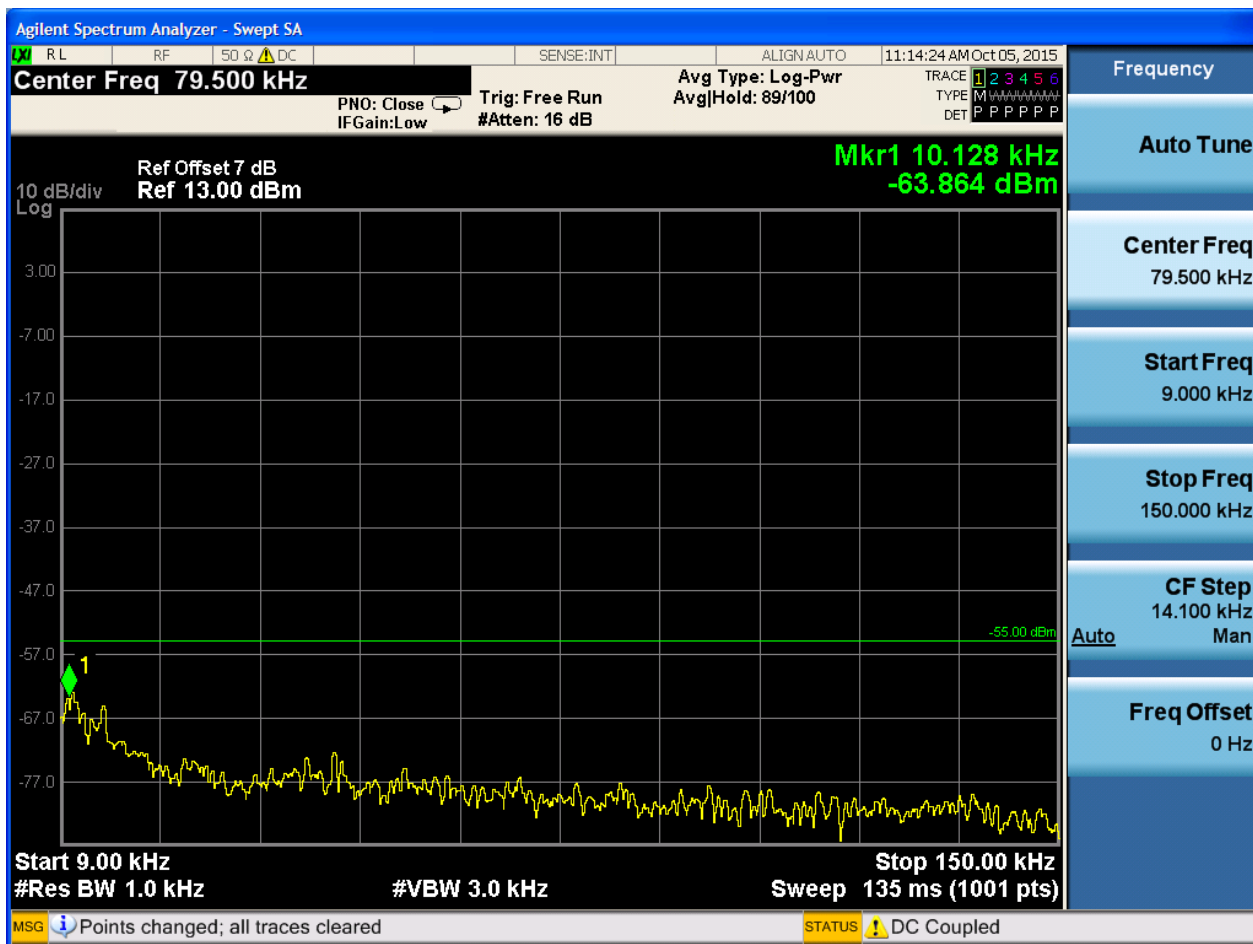


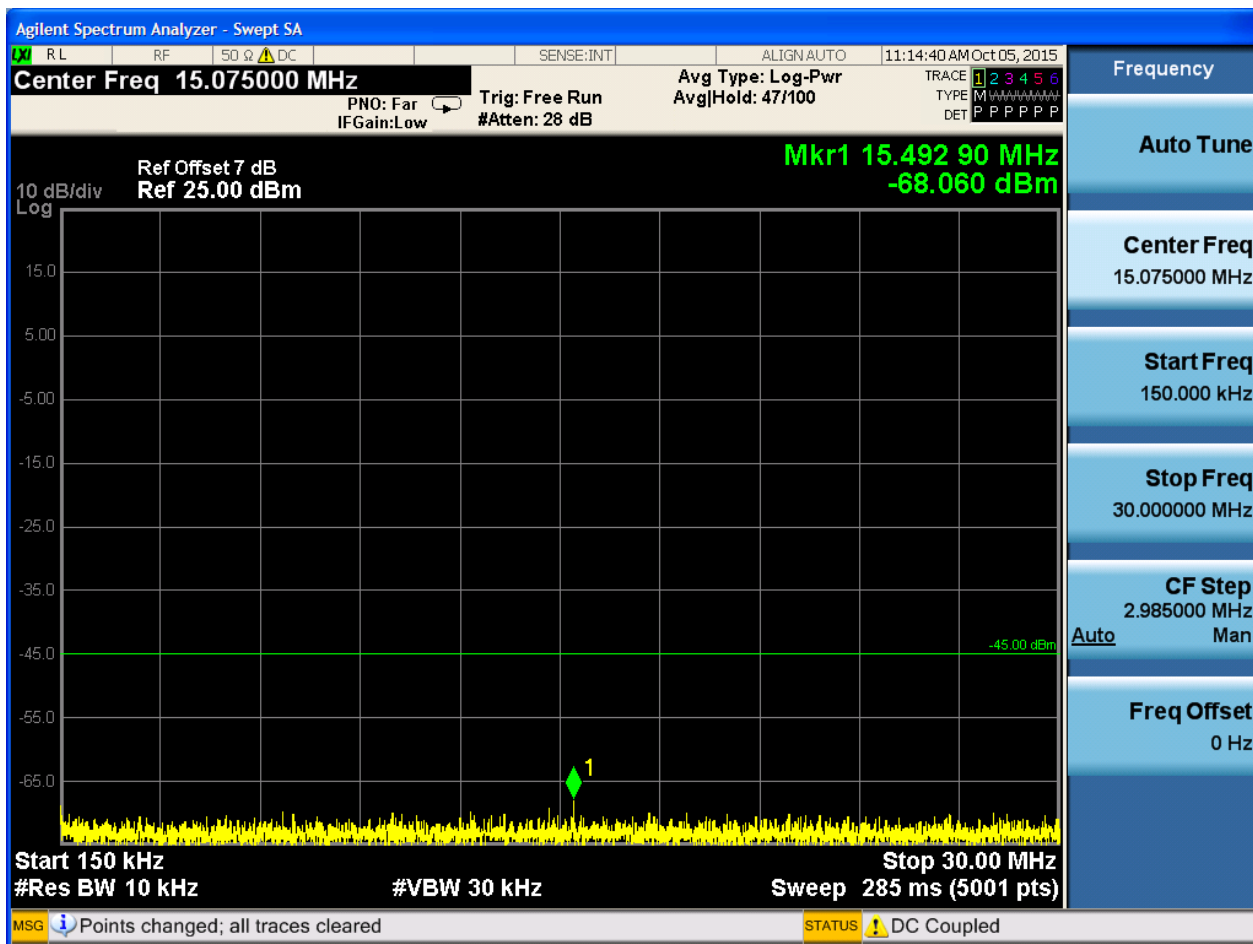


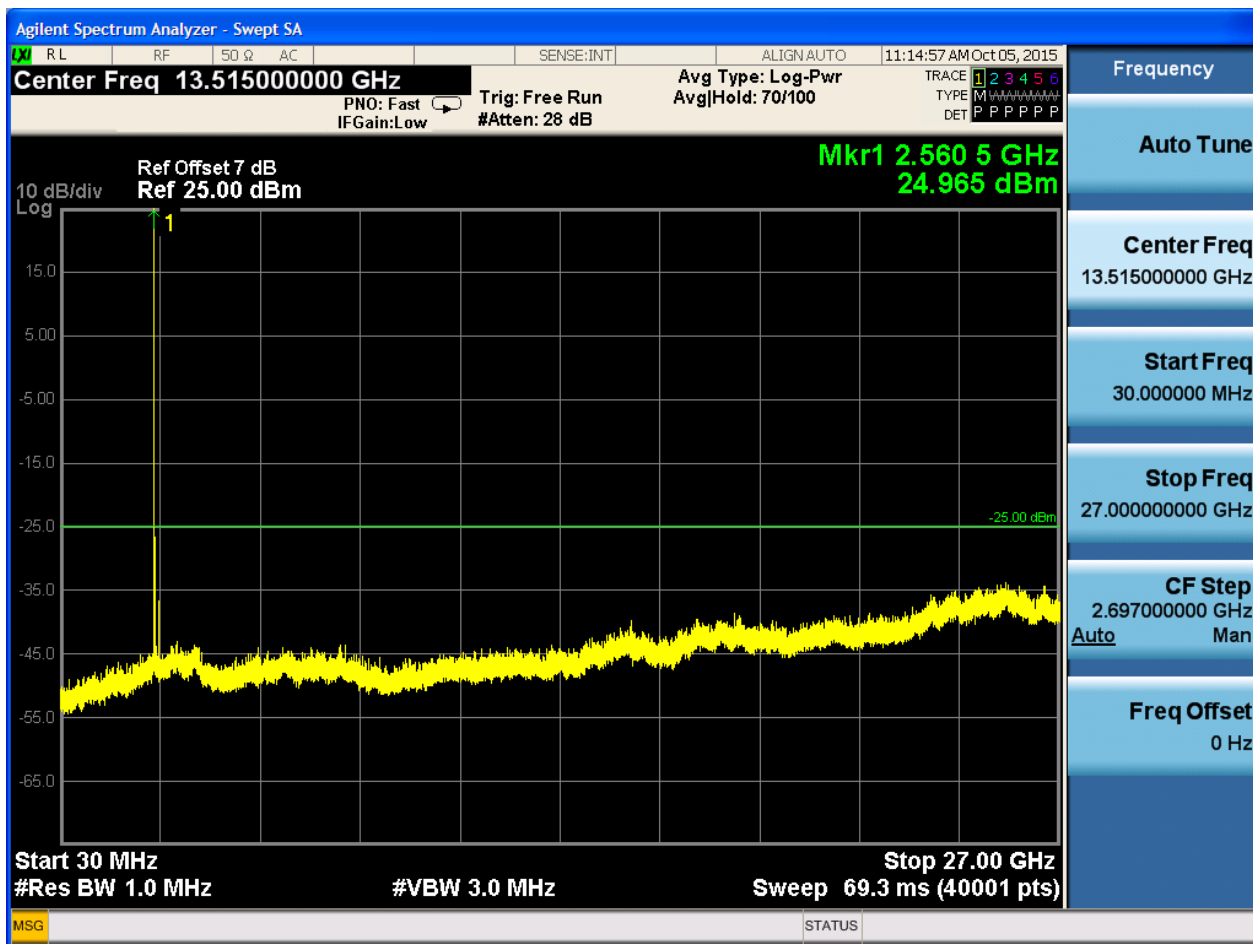


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



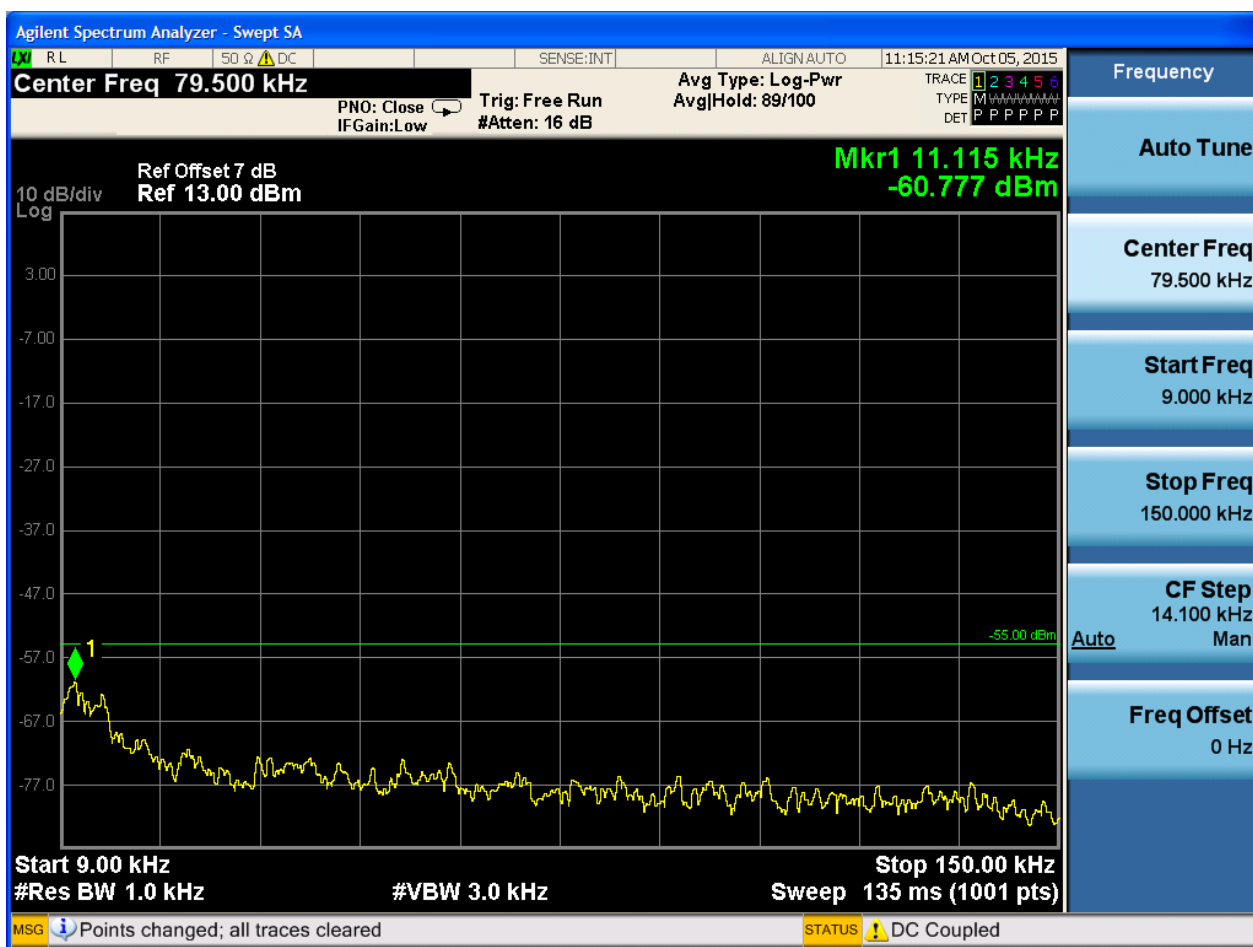


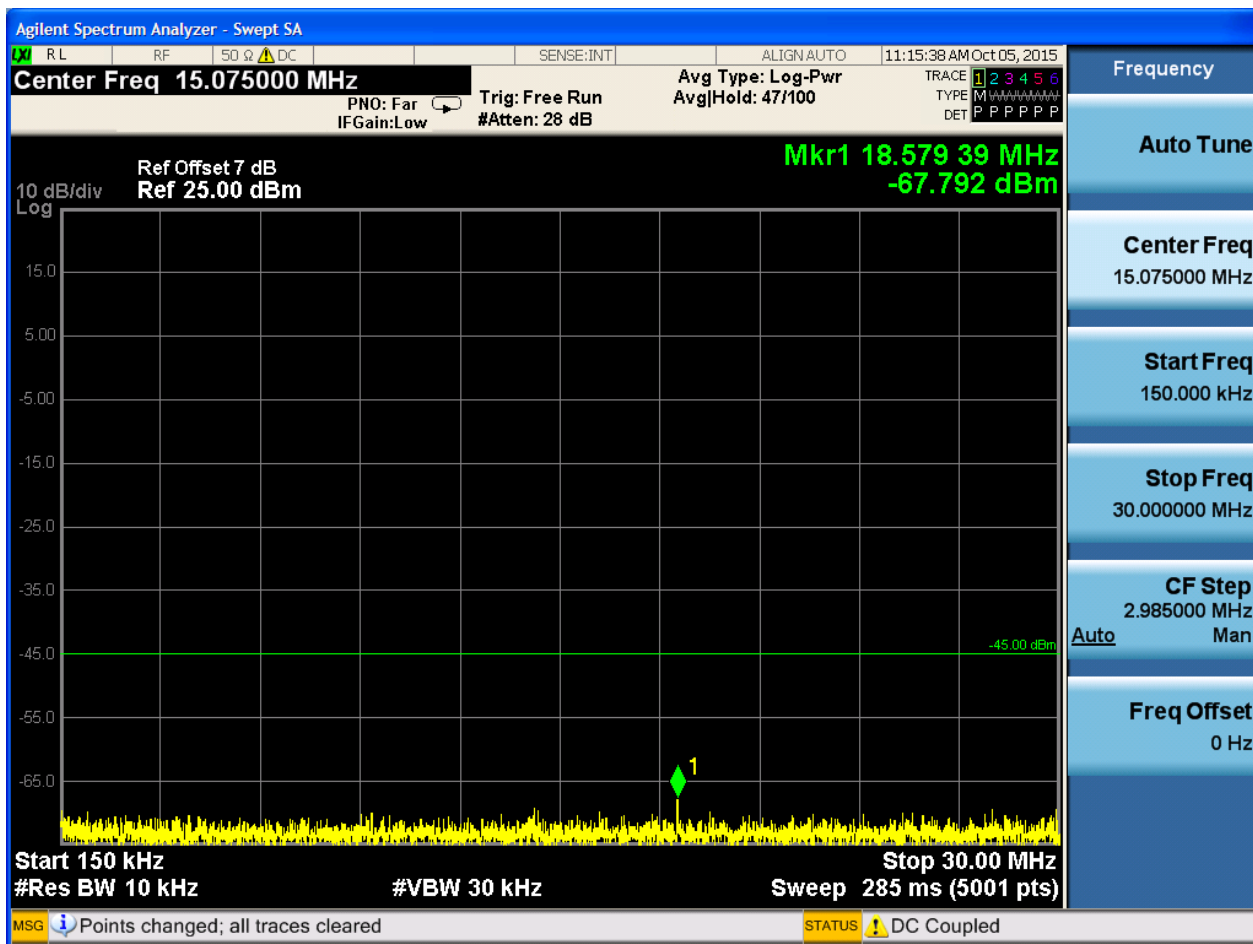


6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0

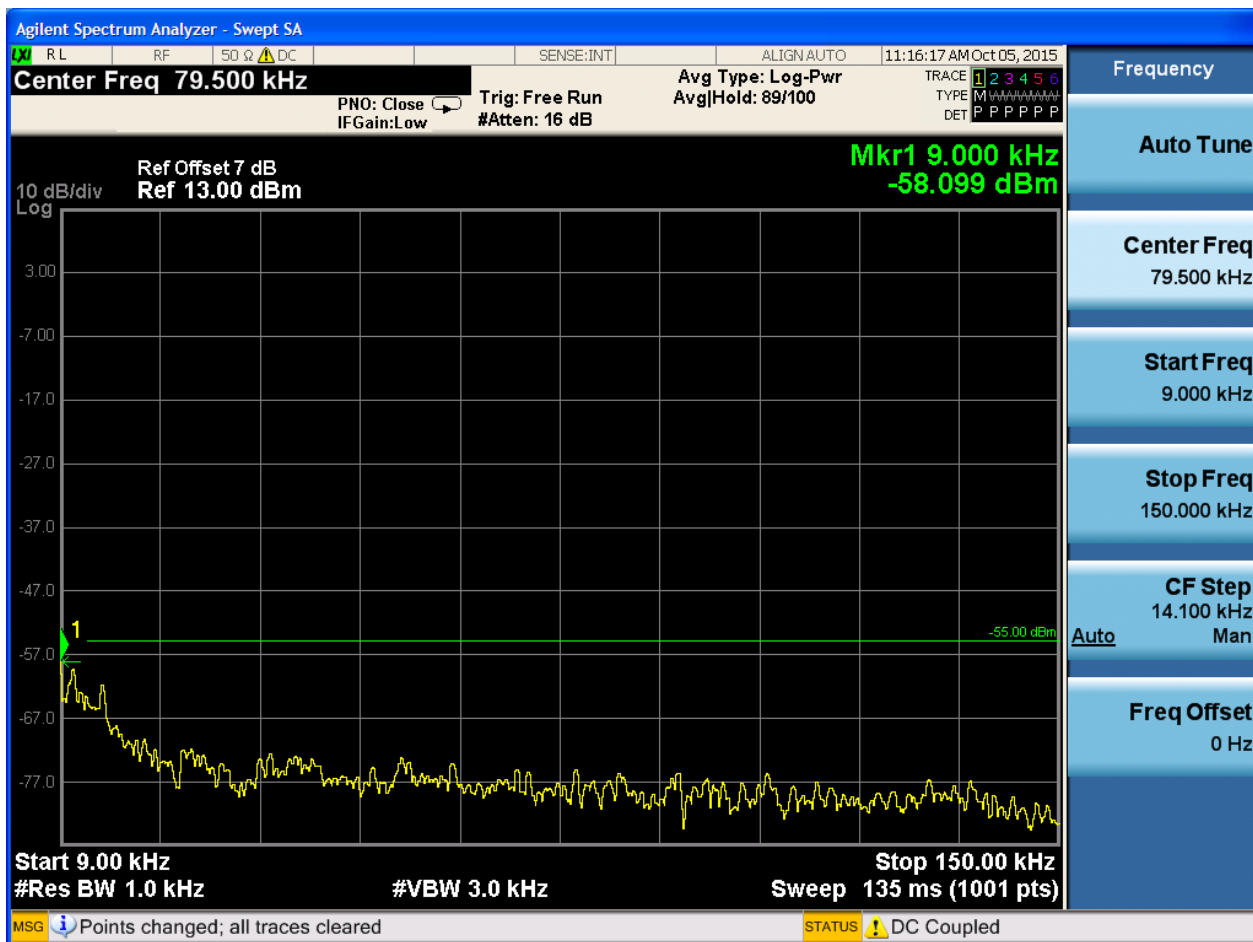


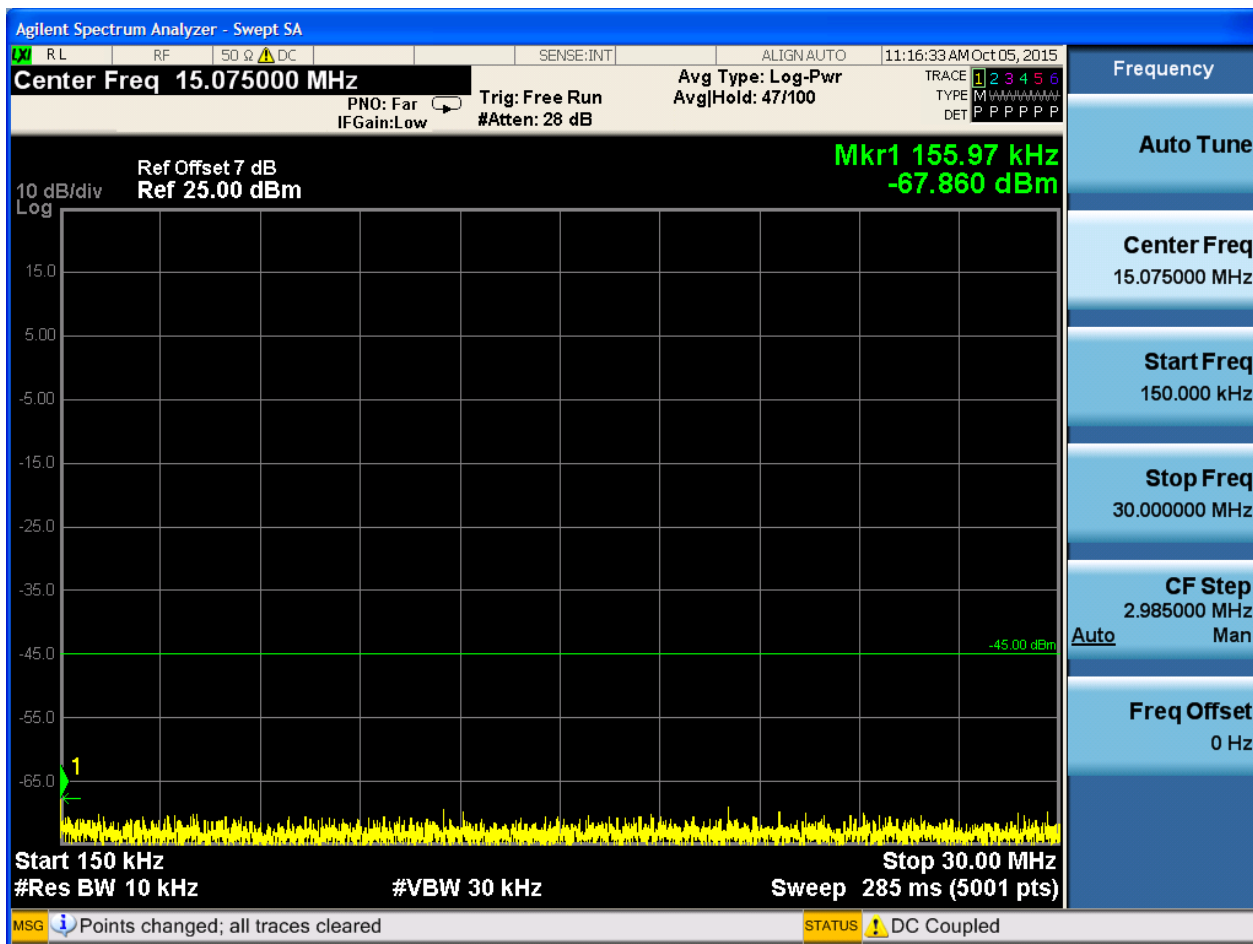


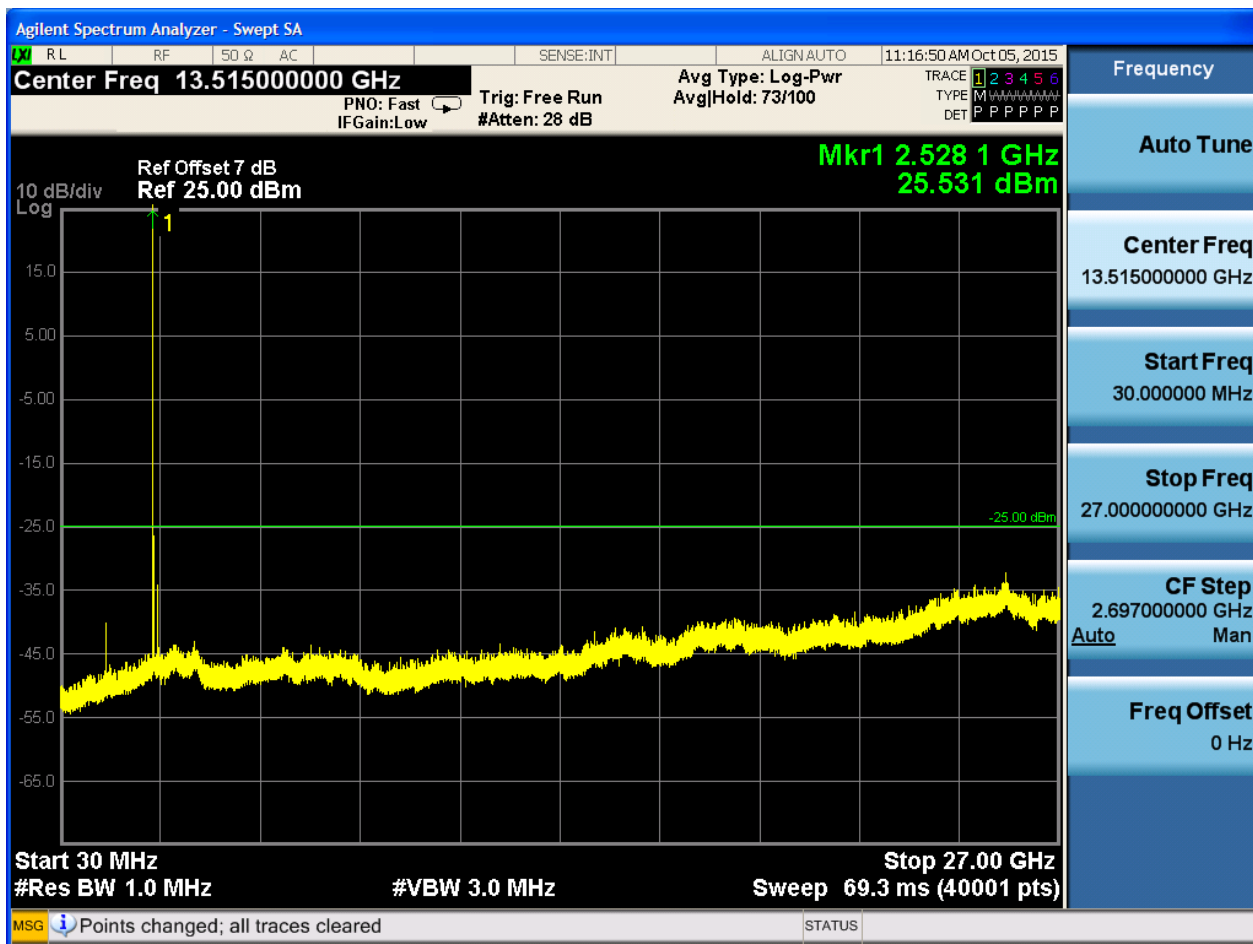


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



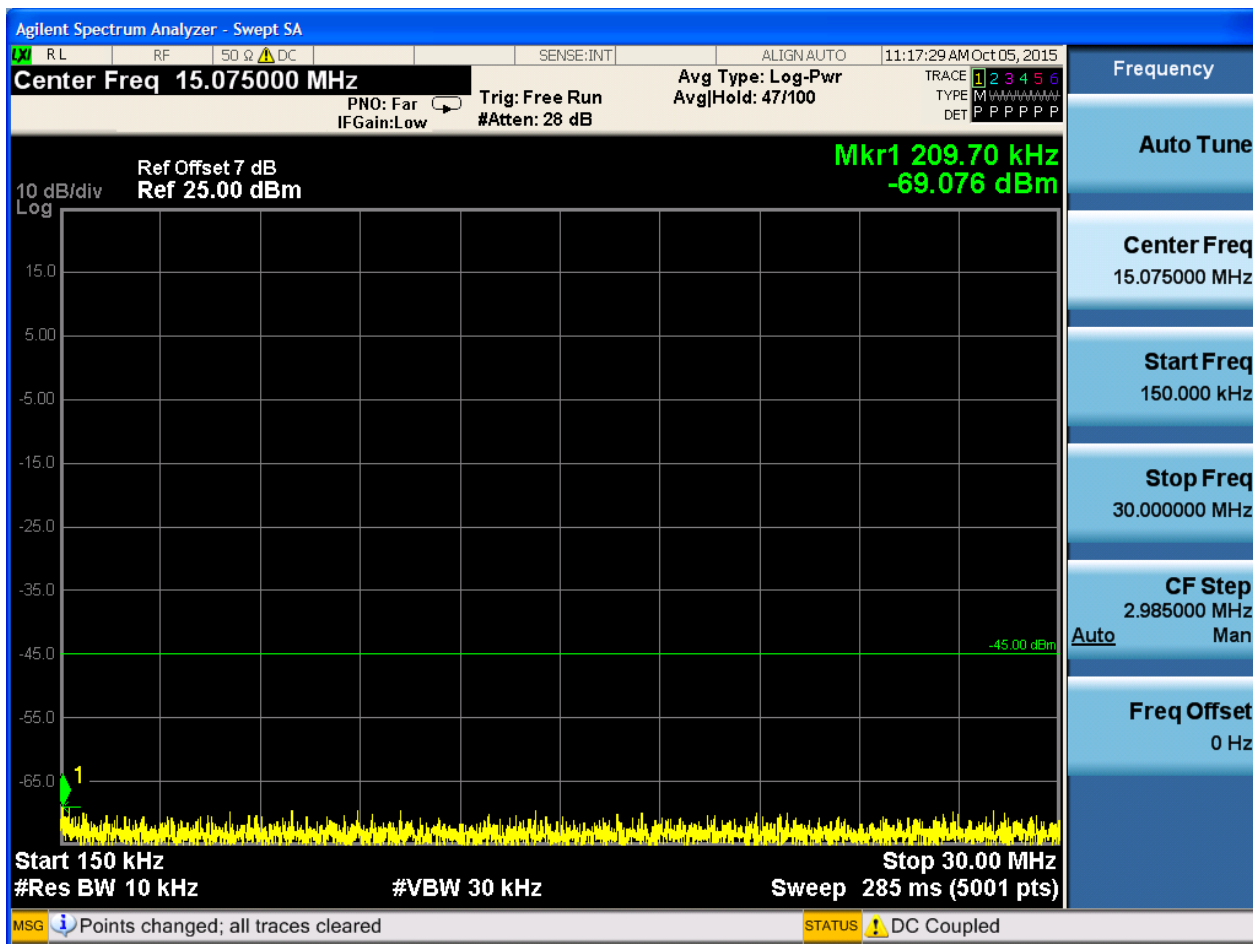


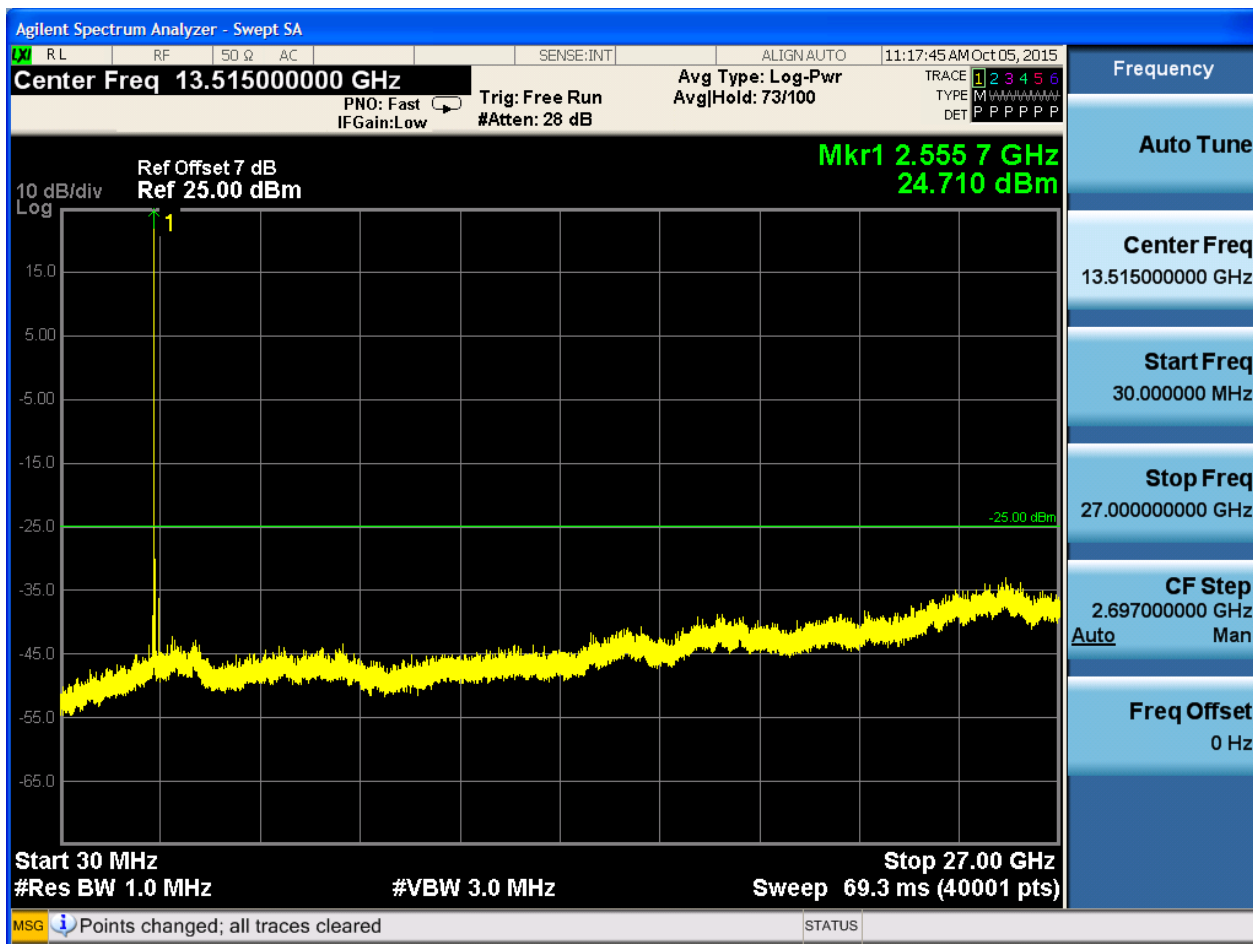


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



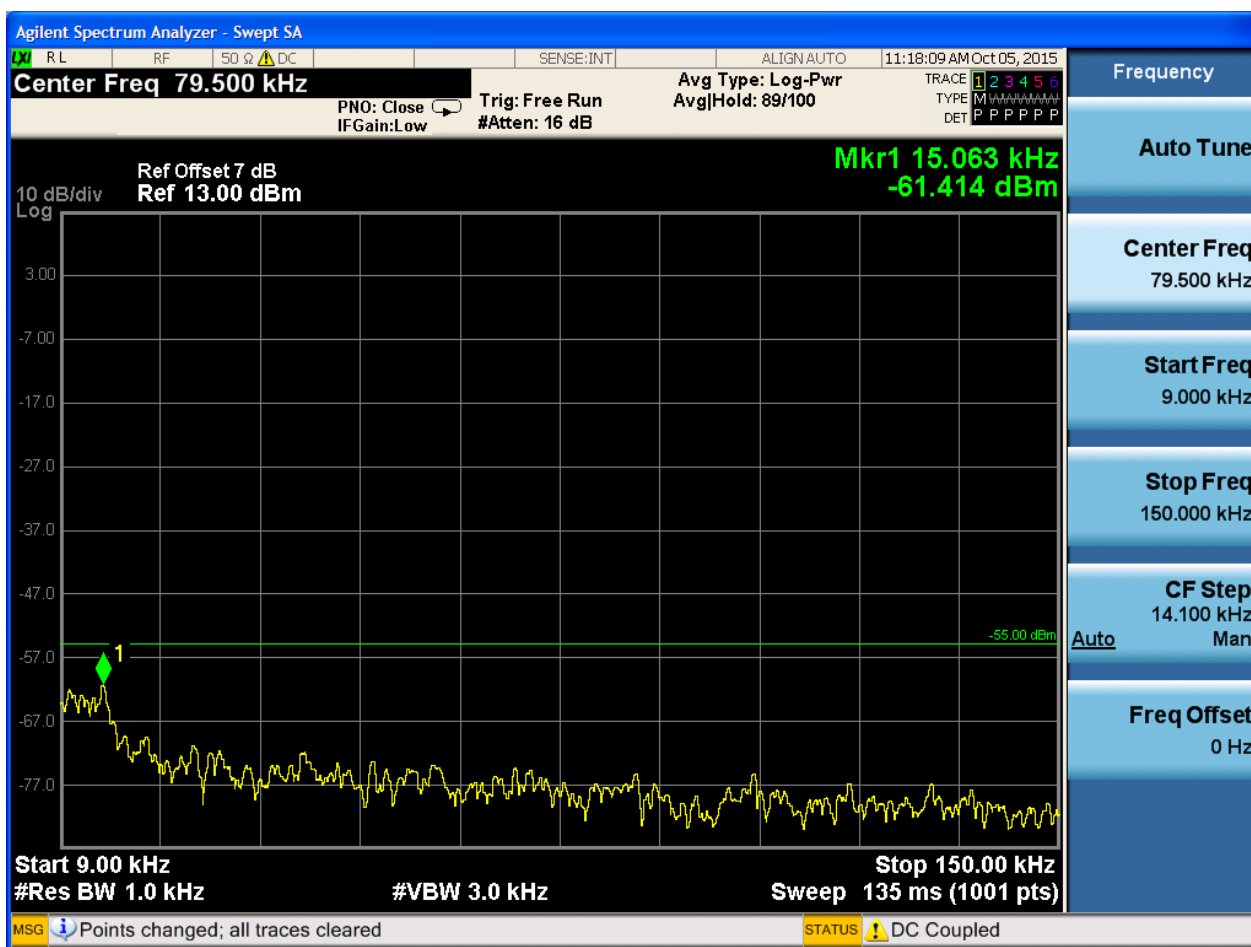




6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

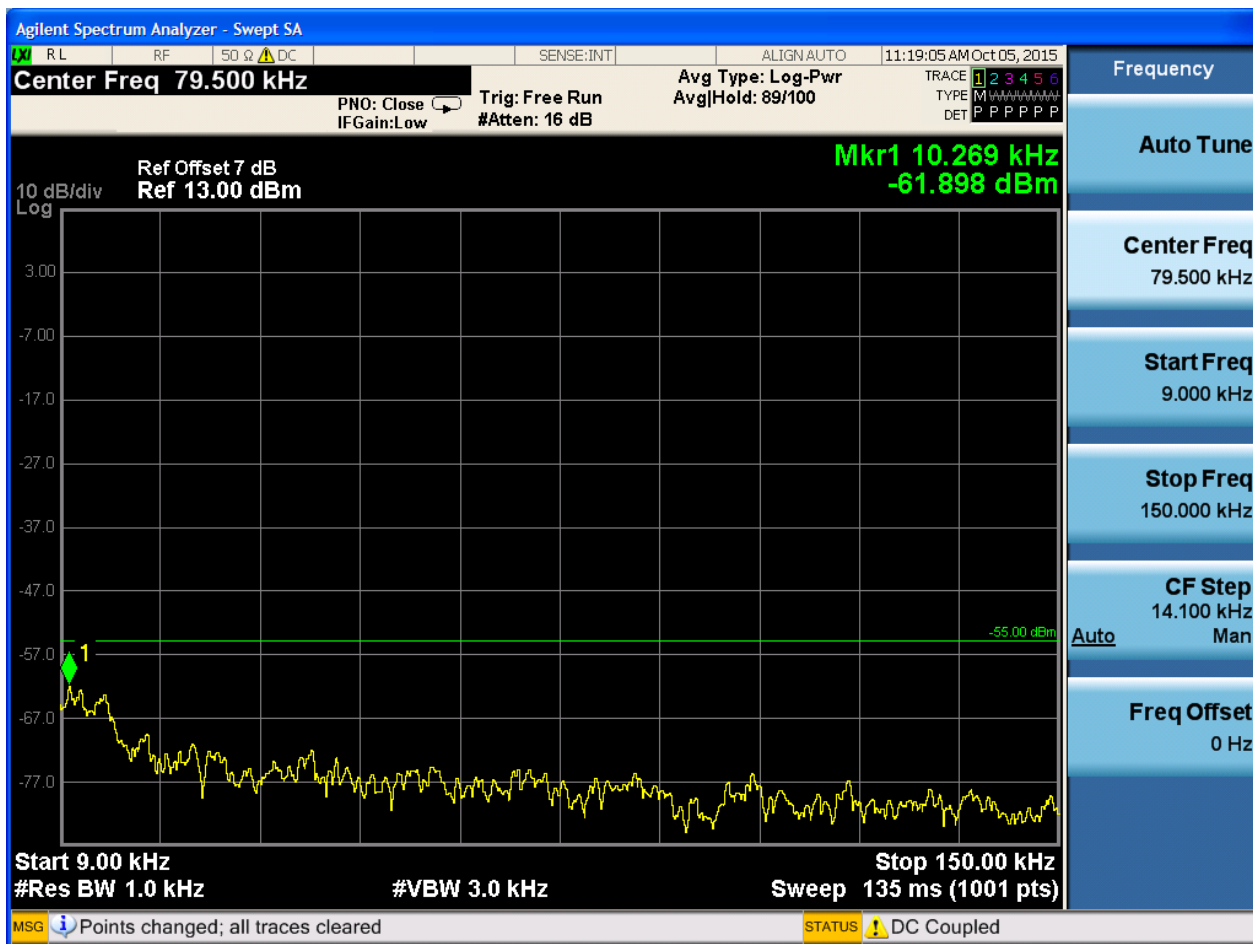


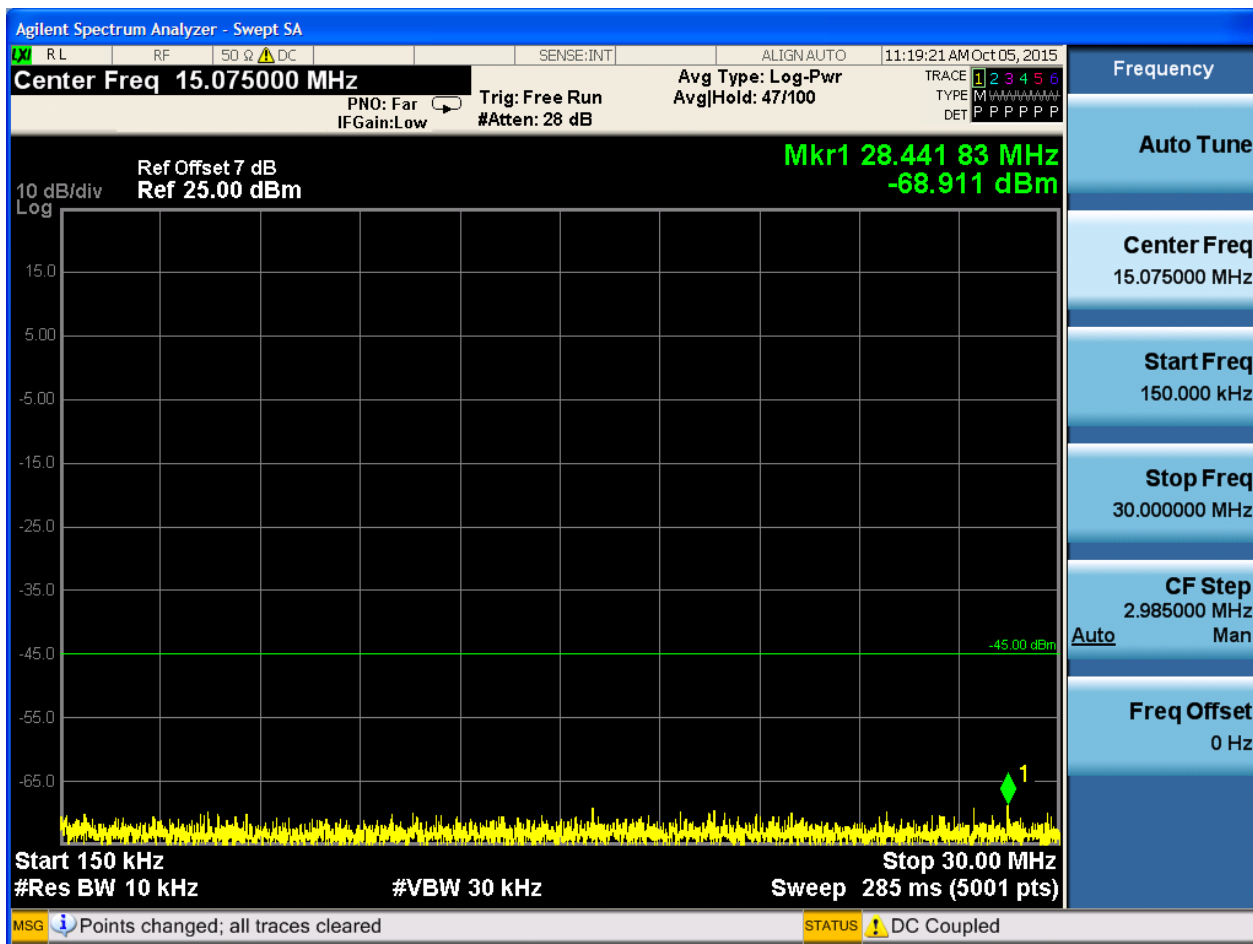


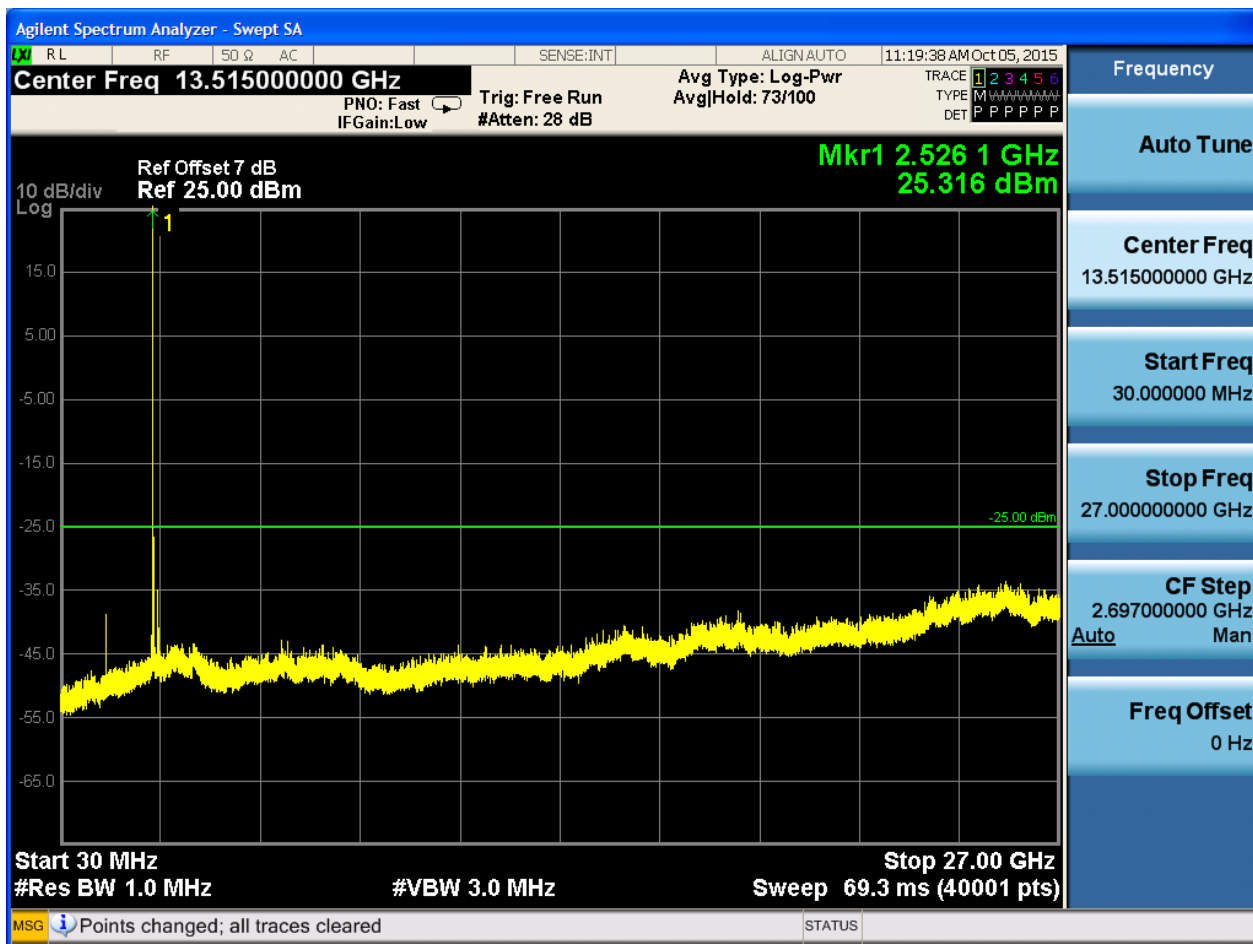


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

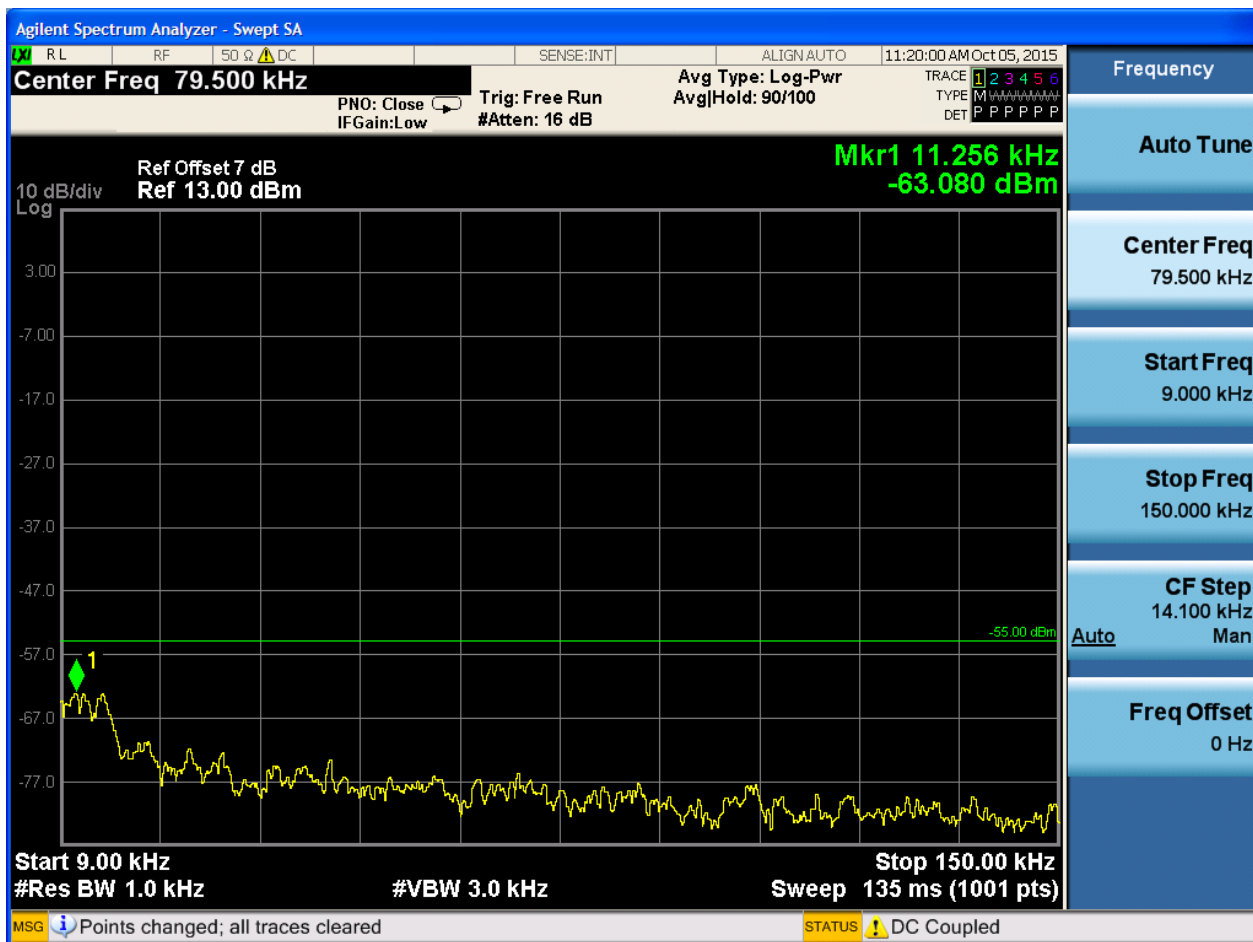




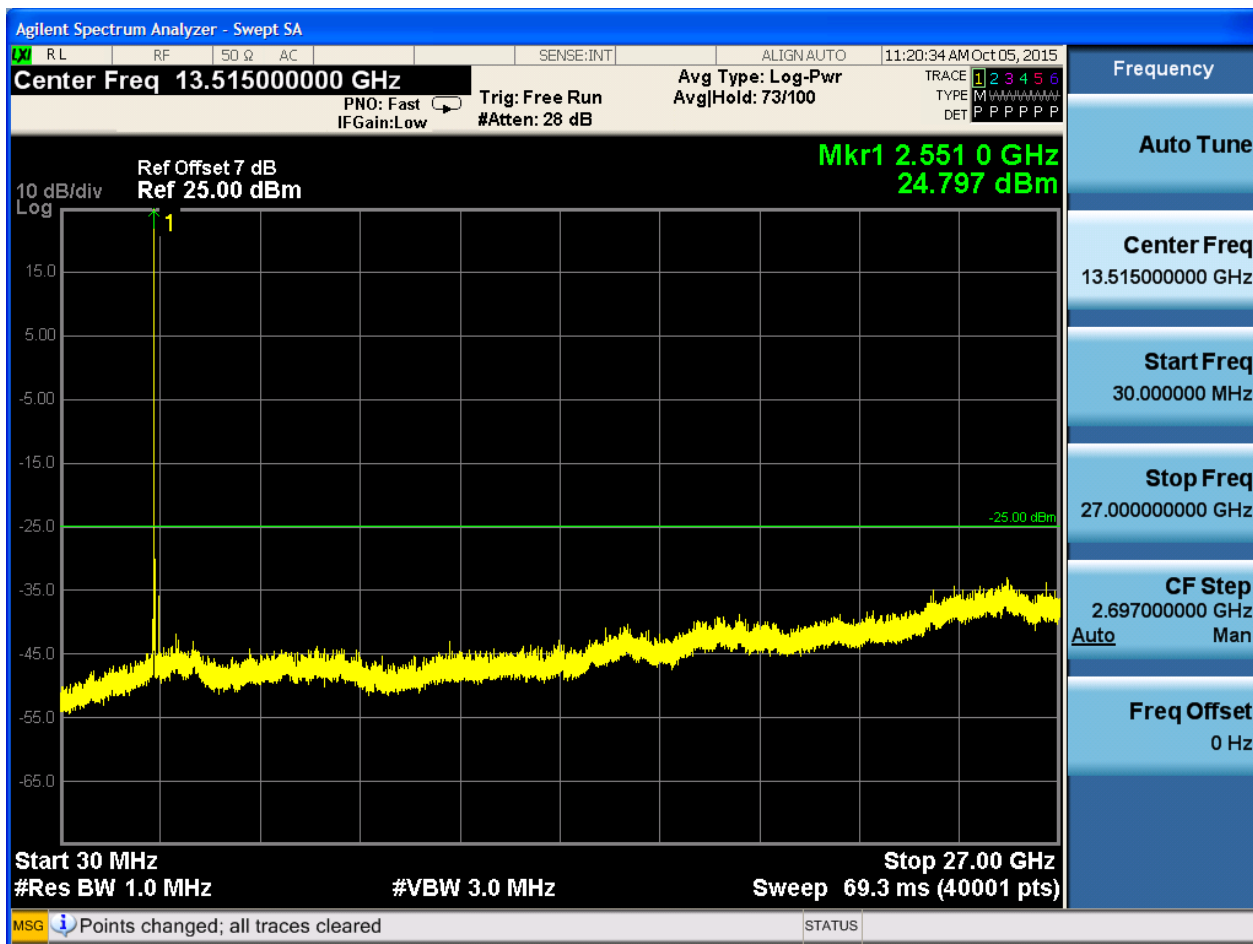


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







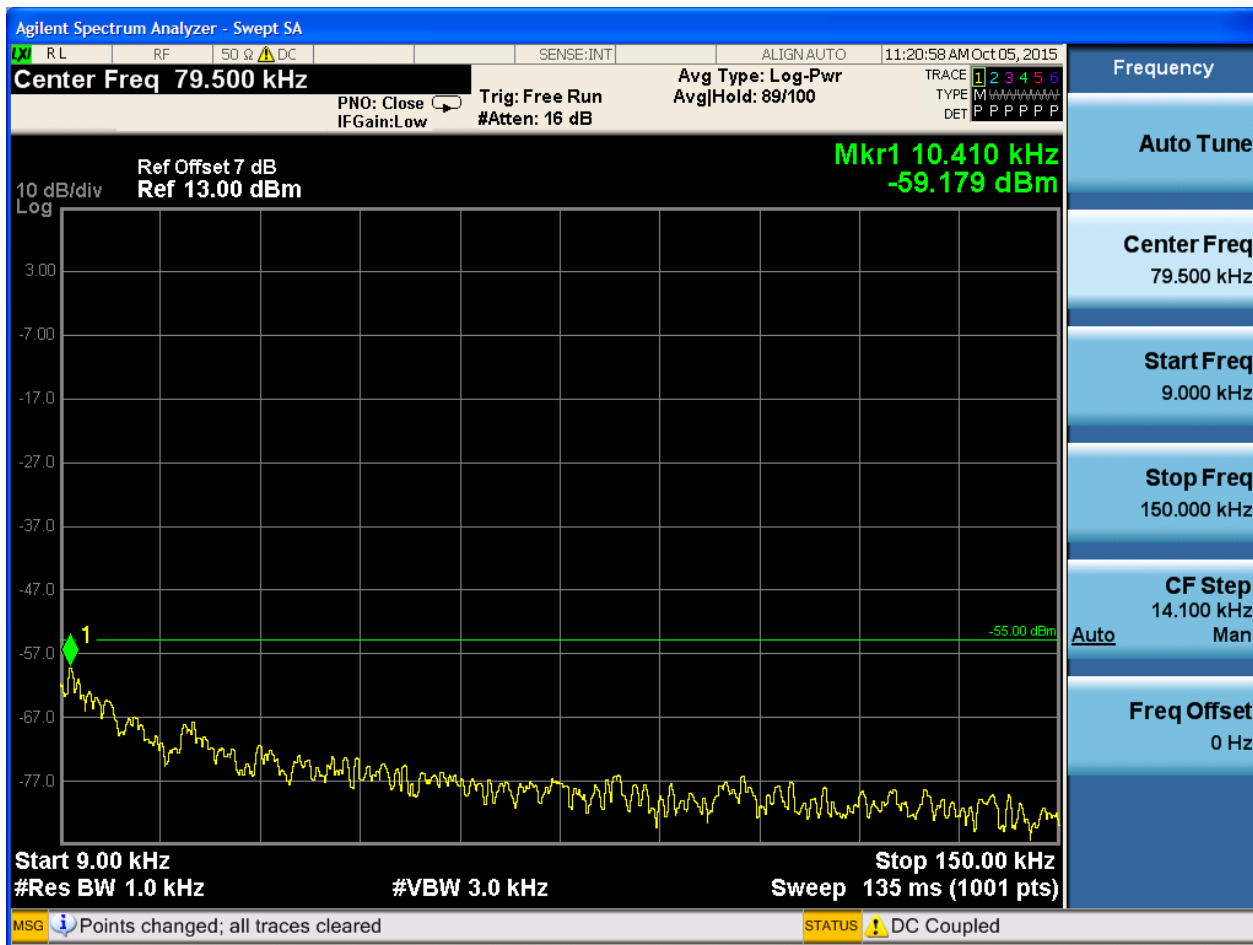


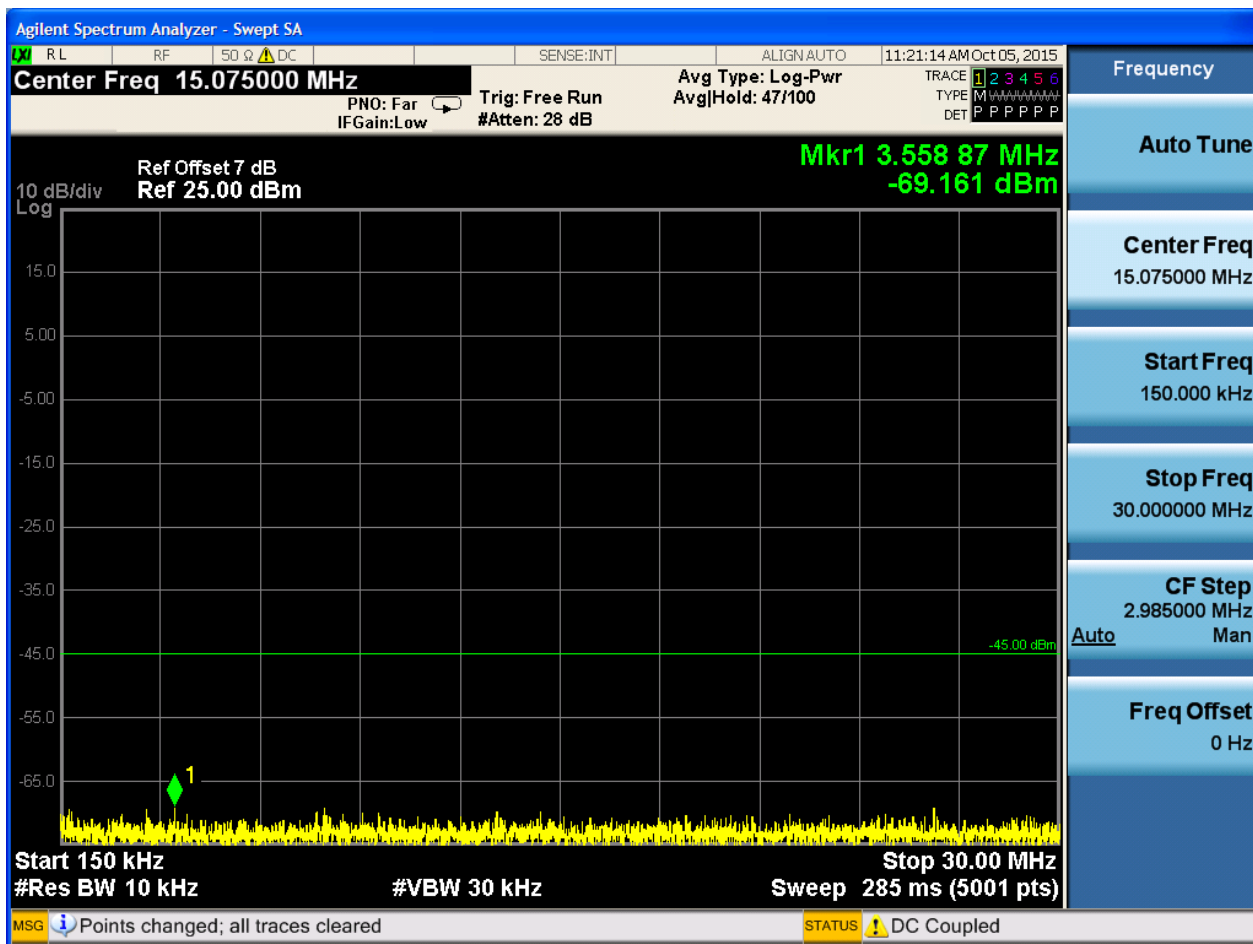
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0







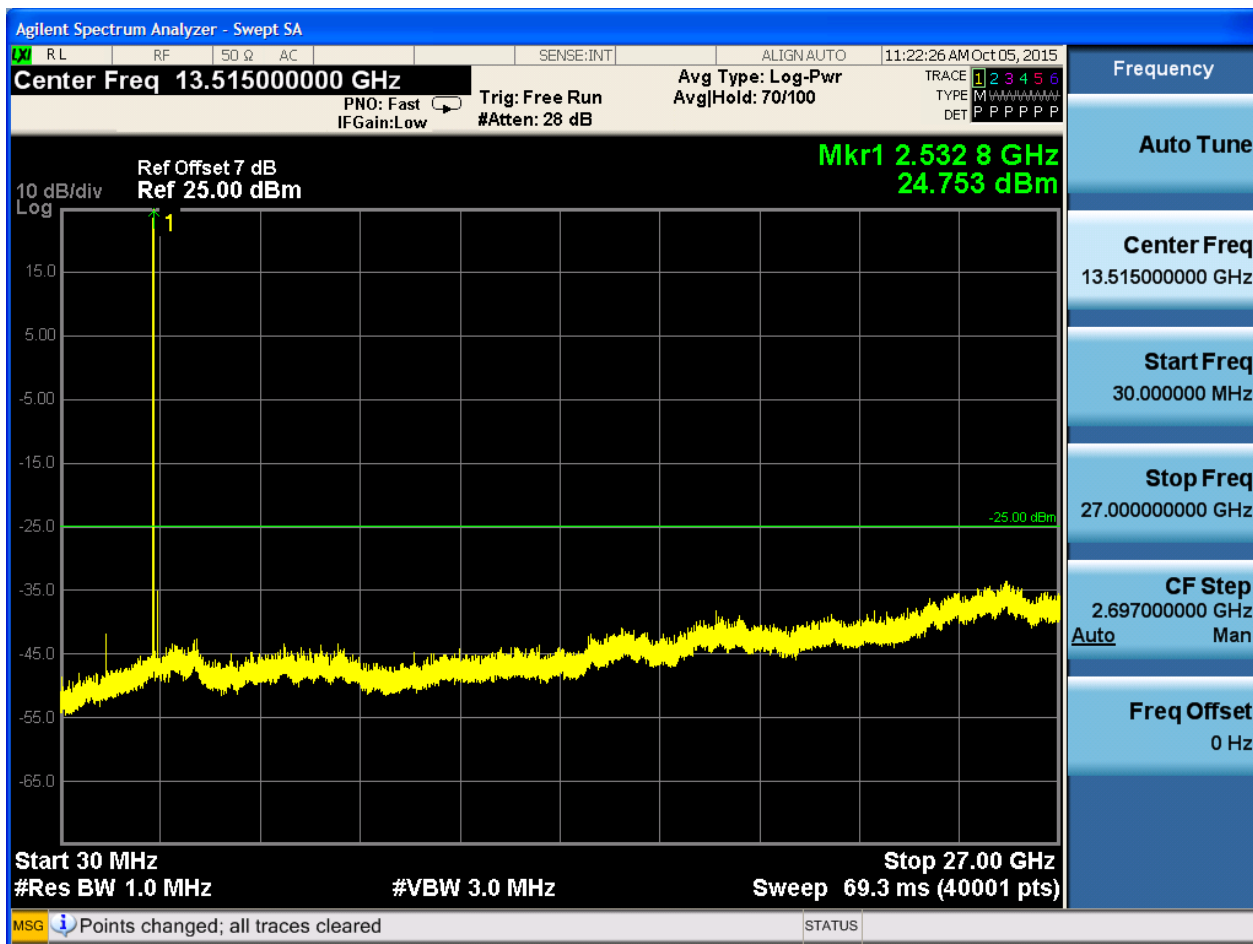


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





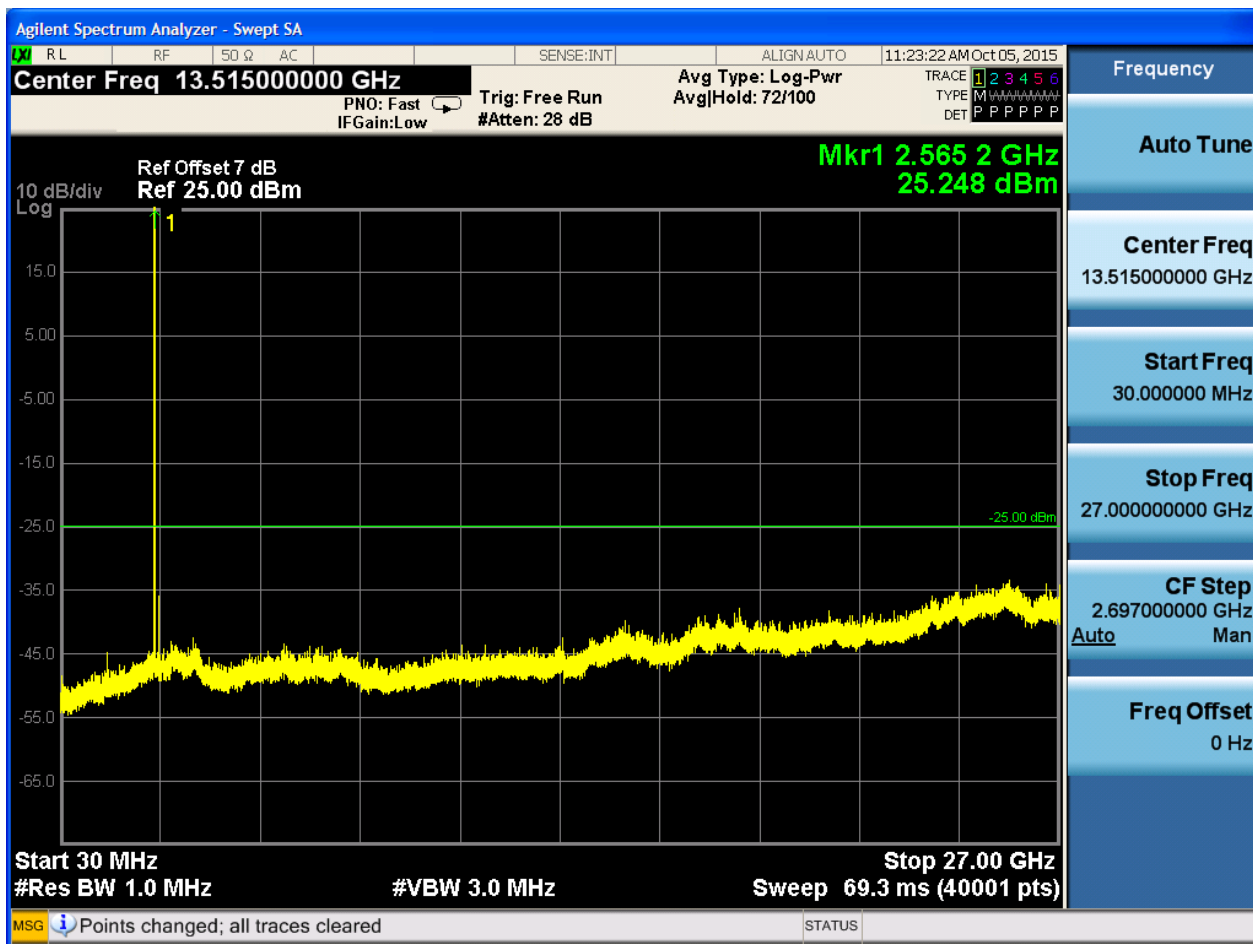


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



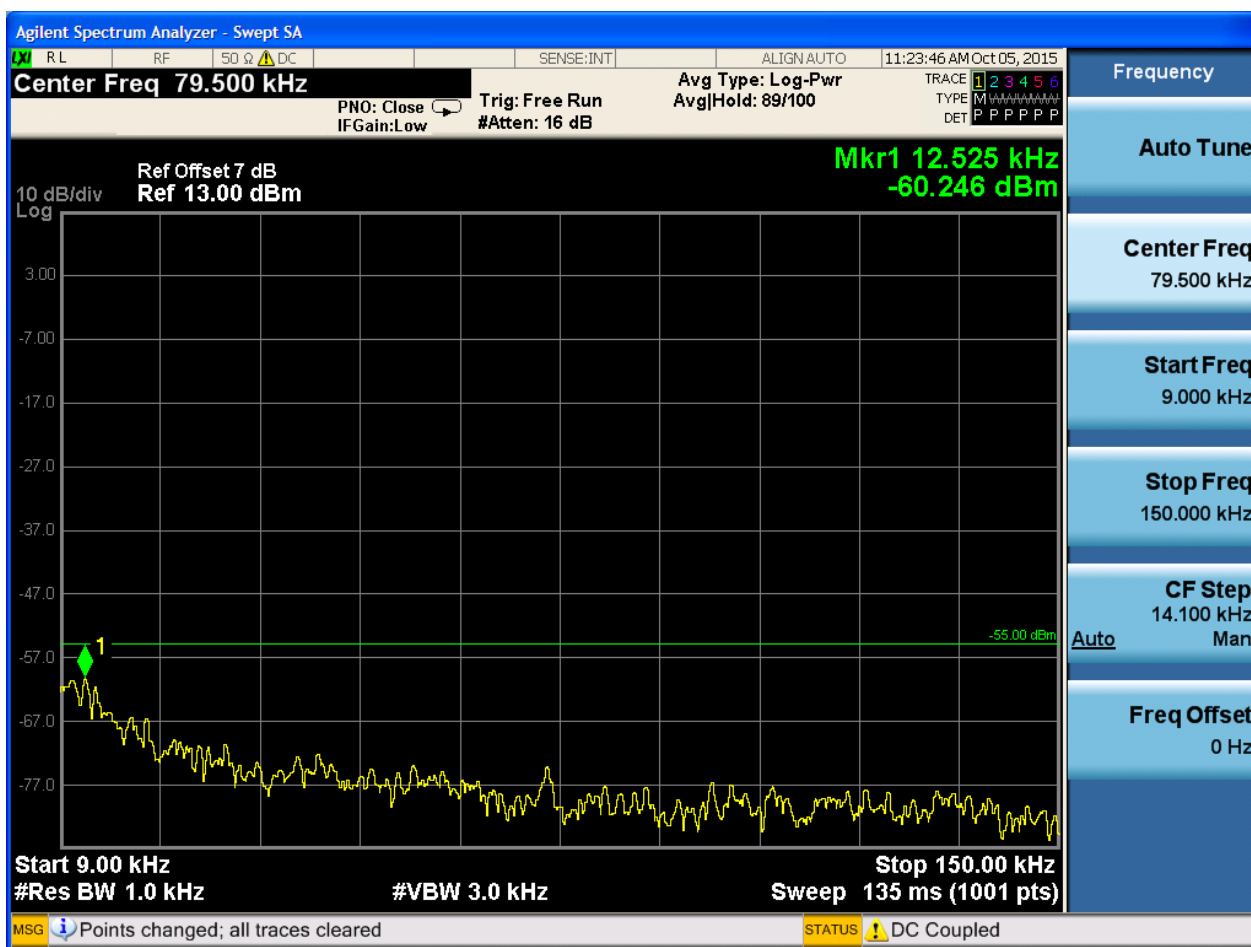




6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



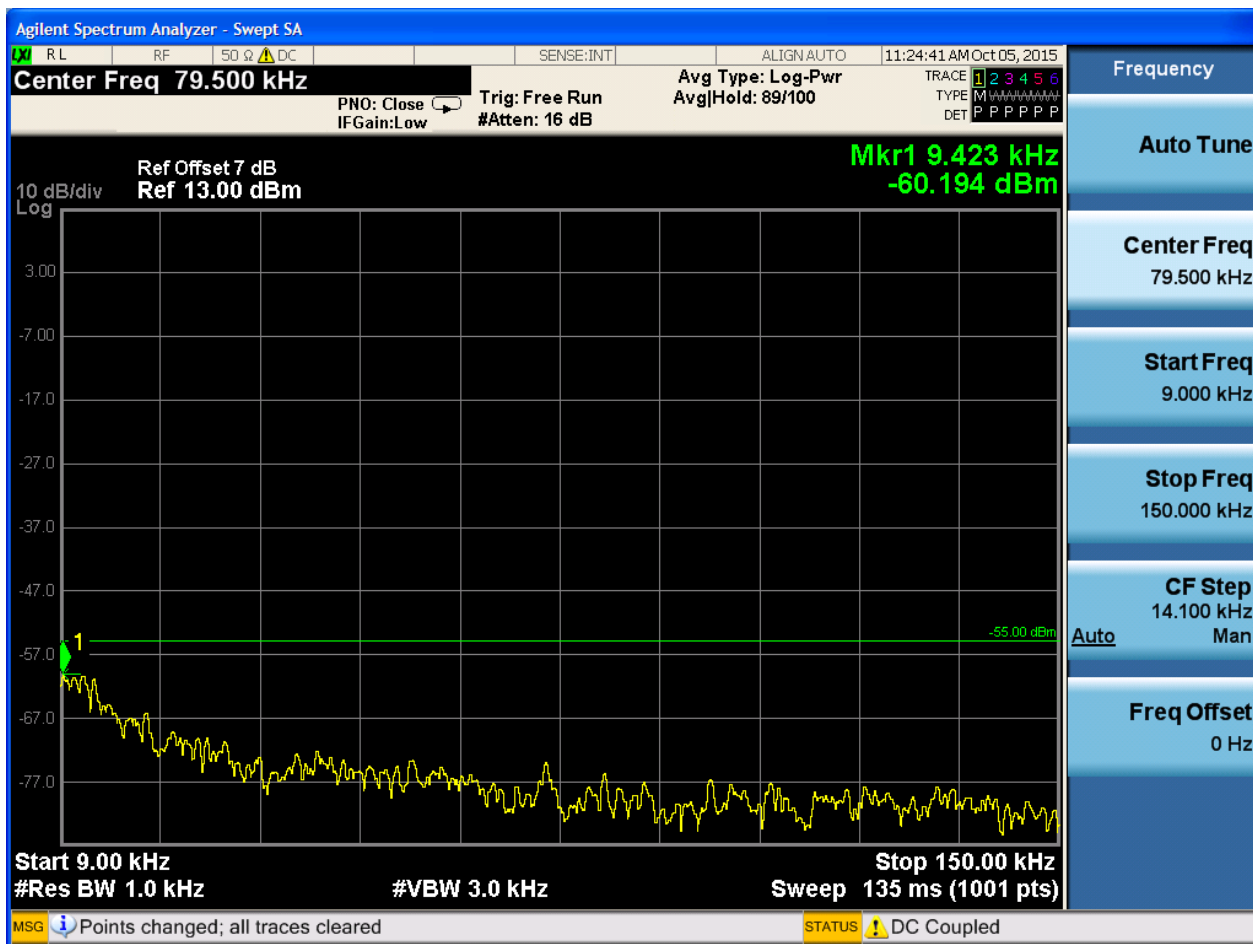




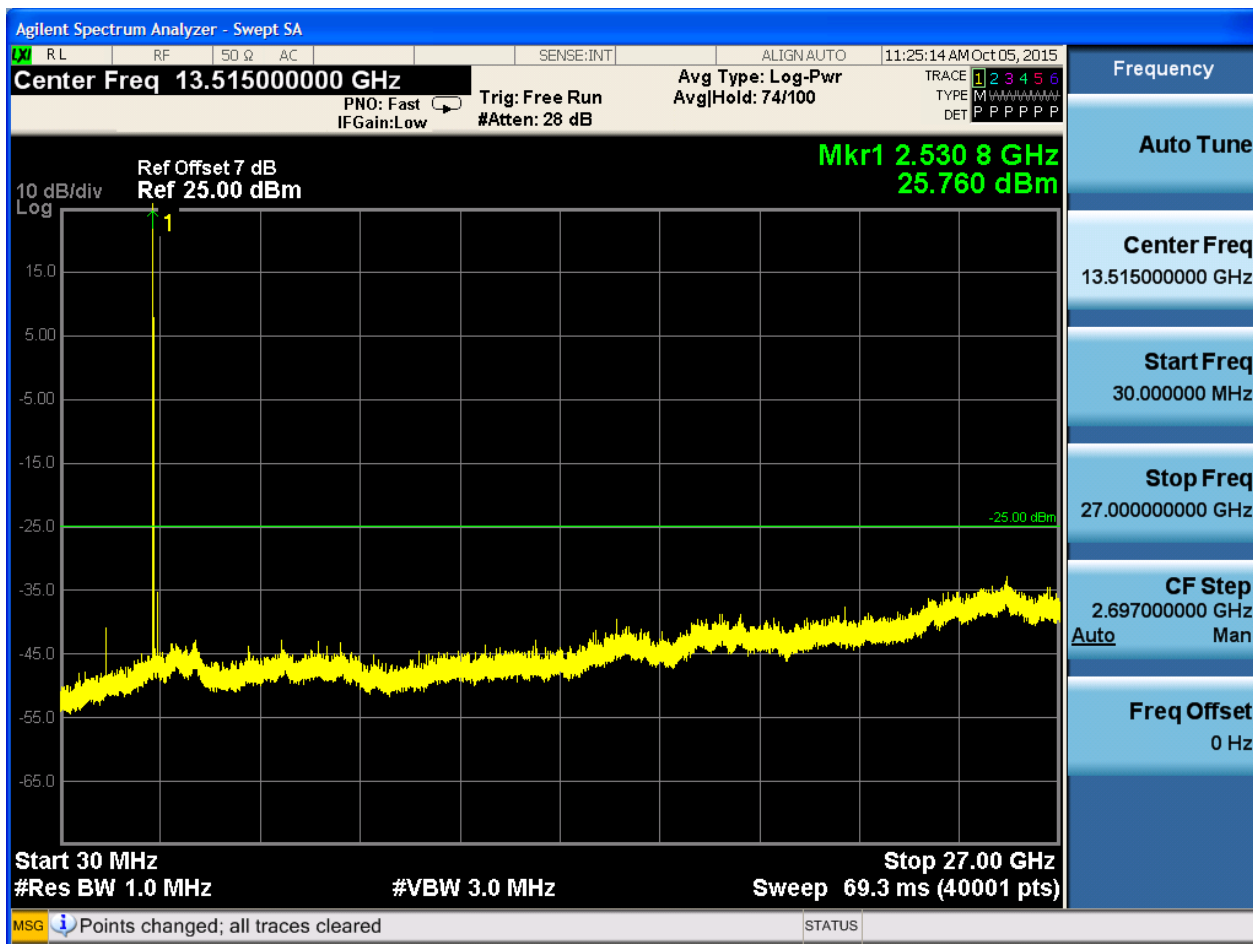


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



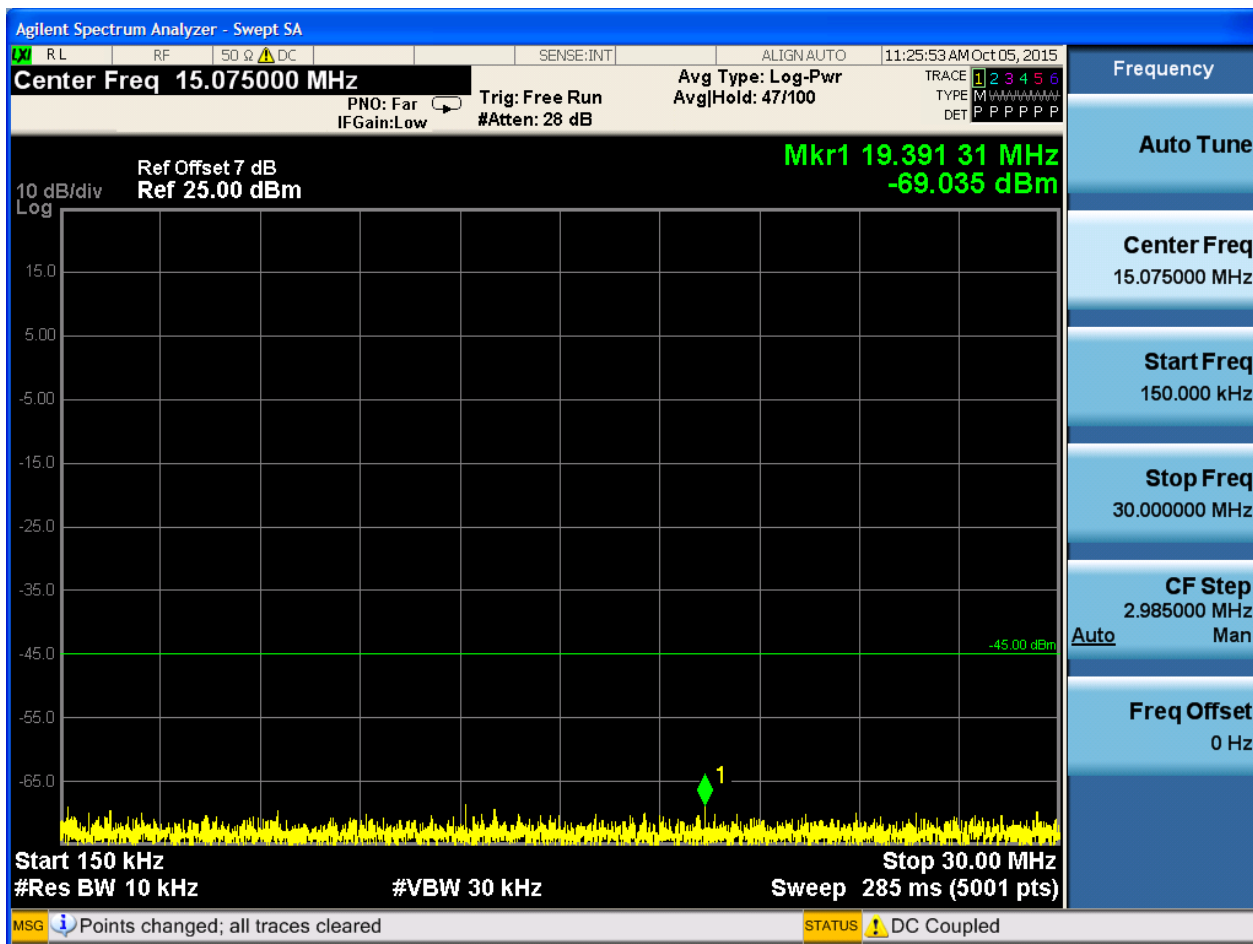


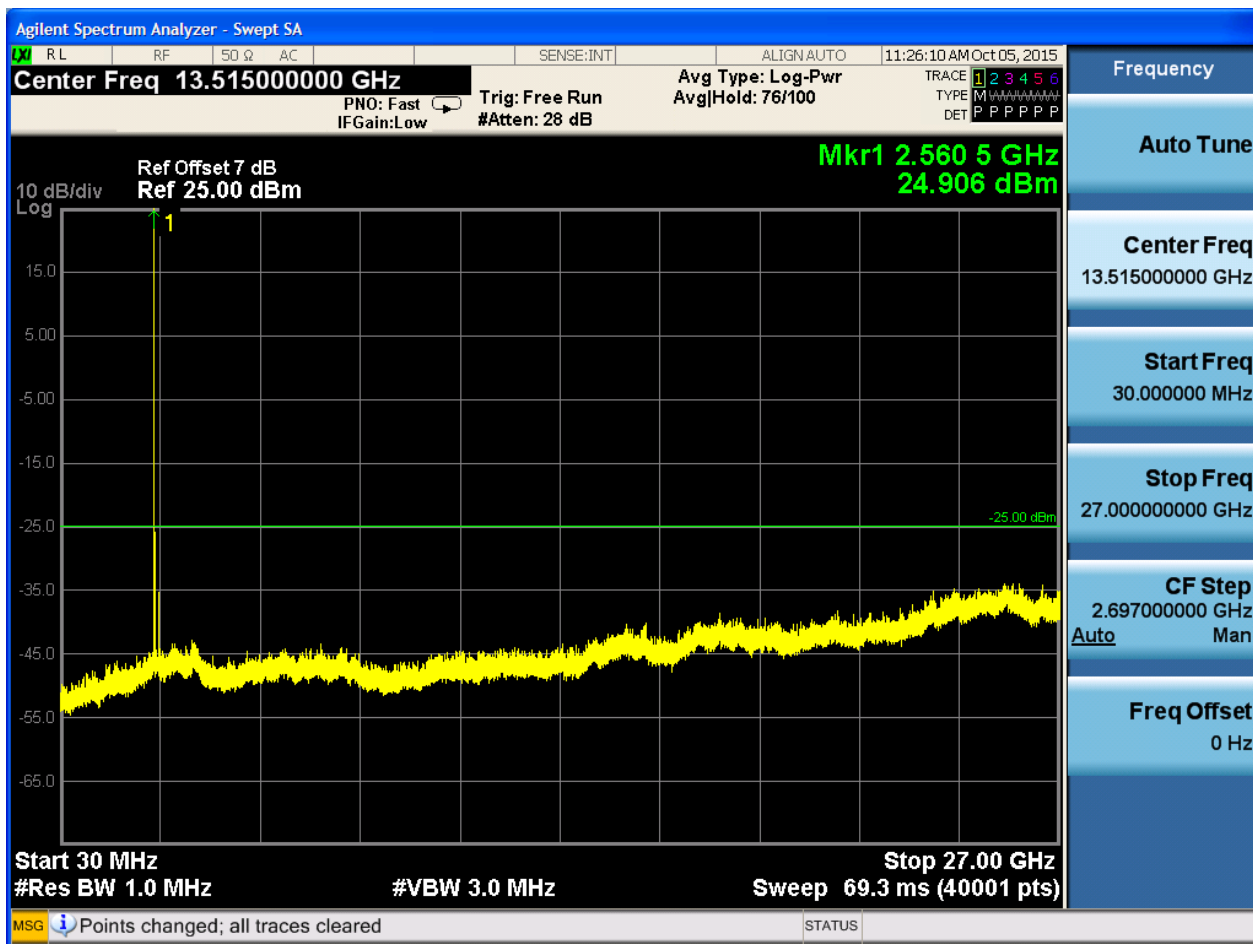


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



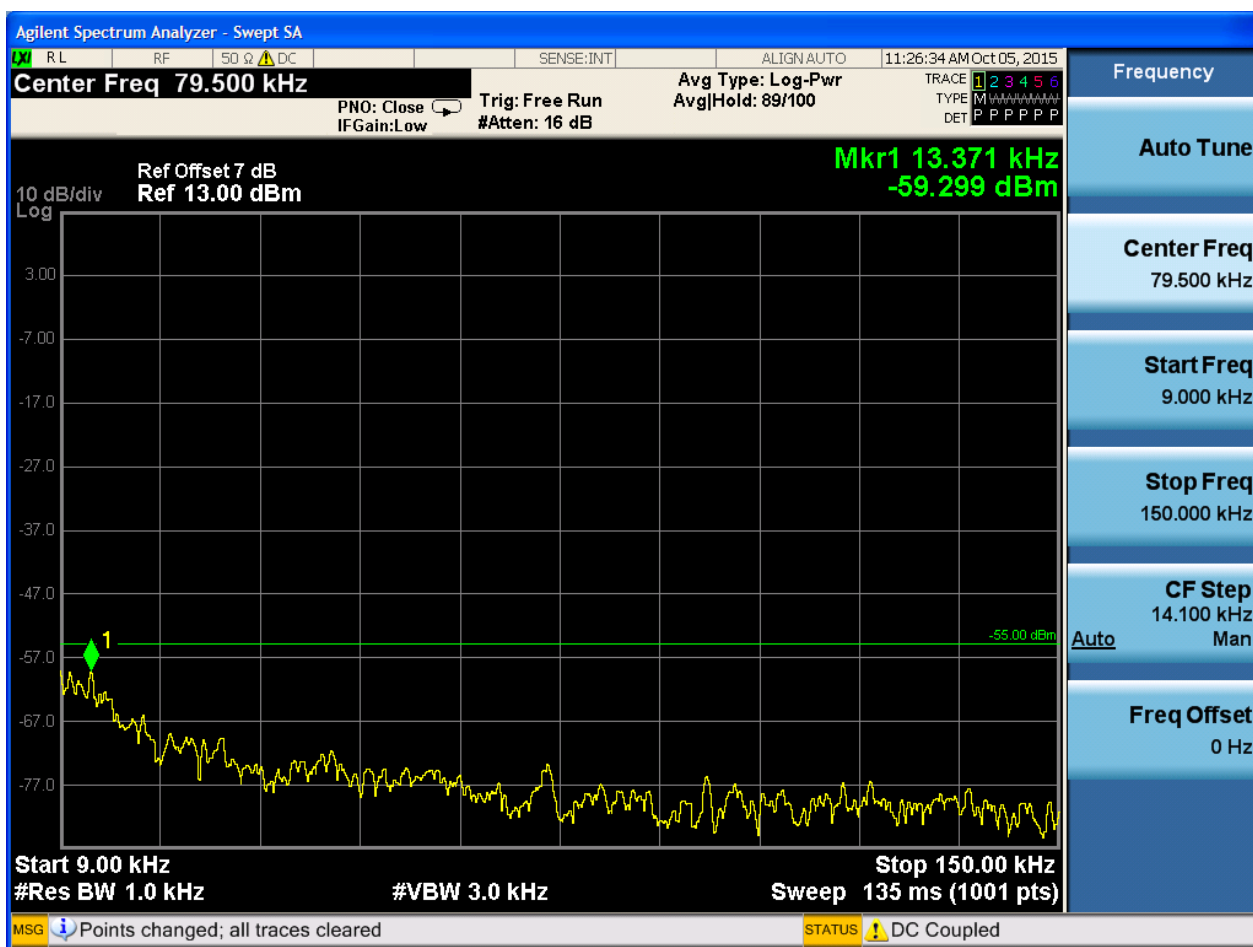


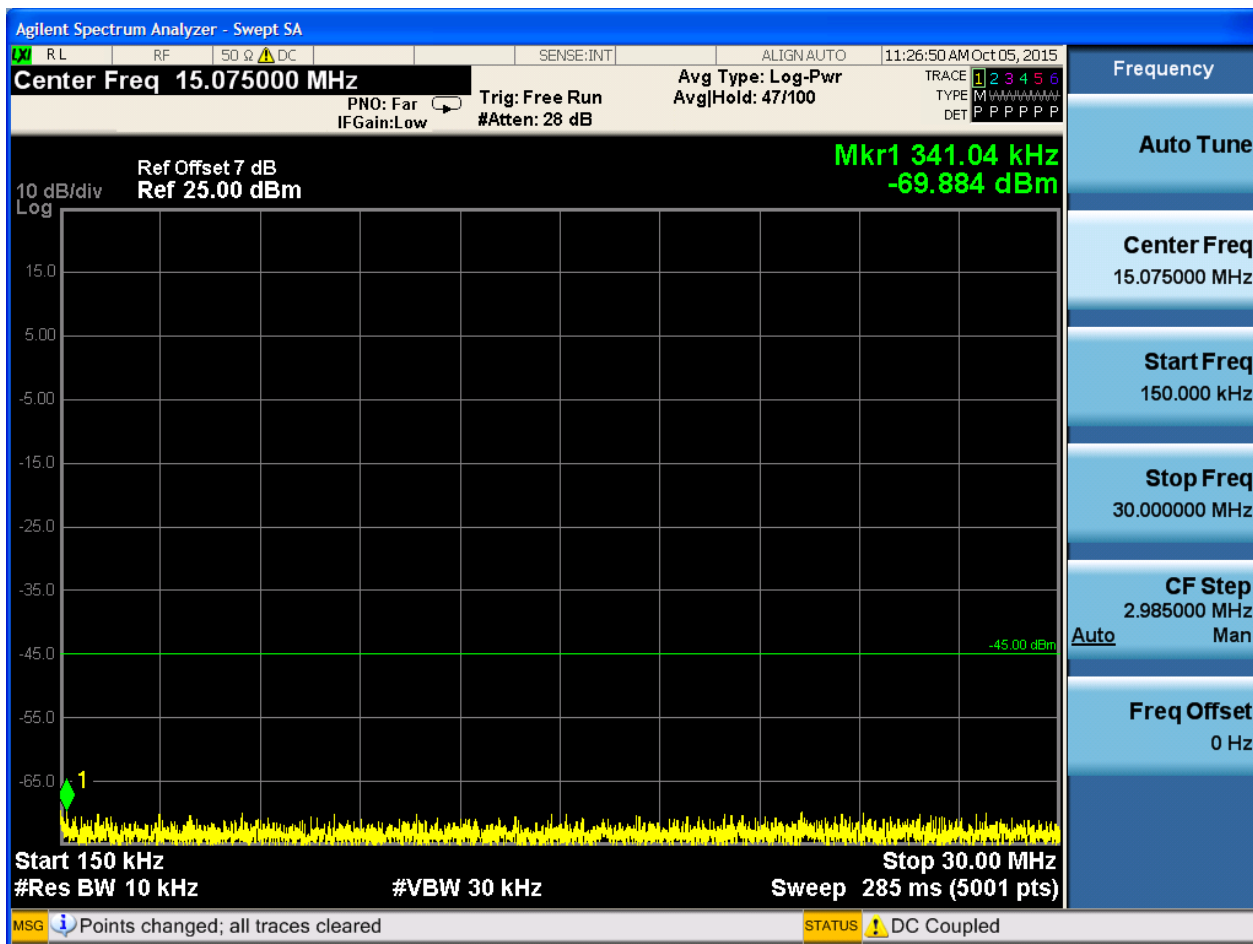


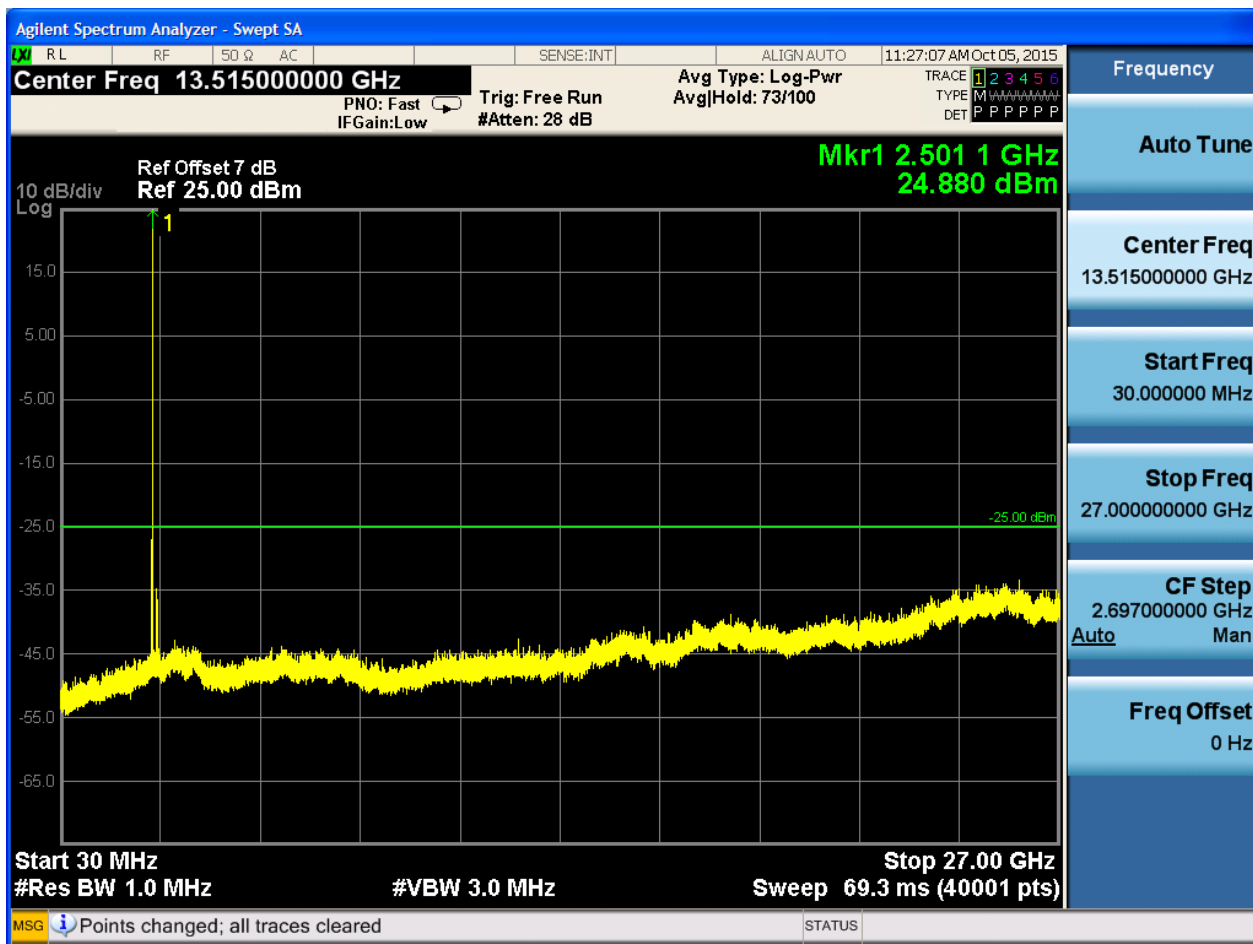
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



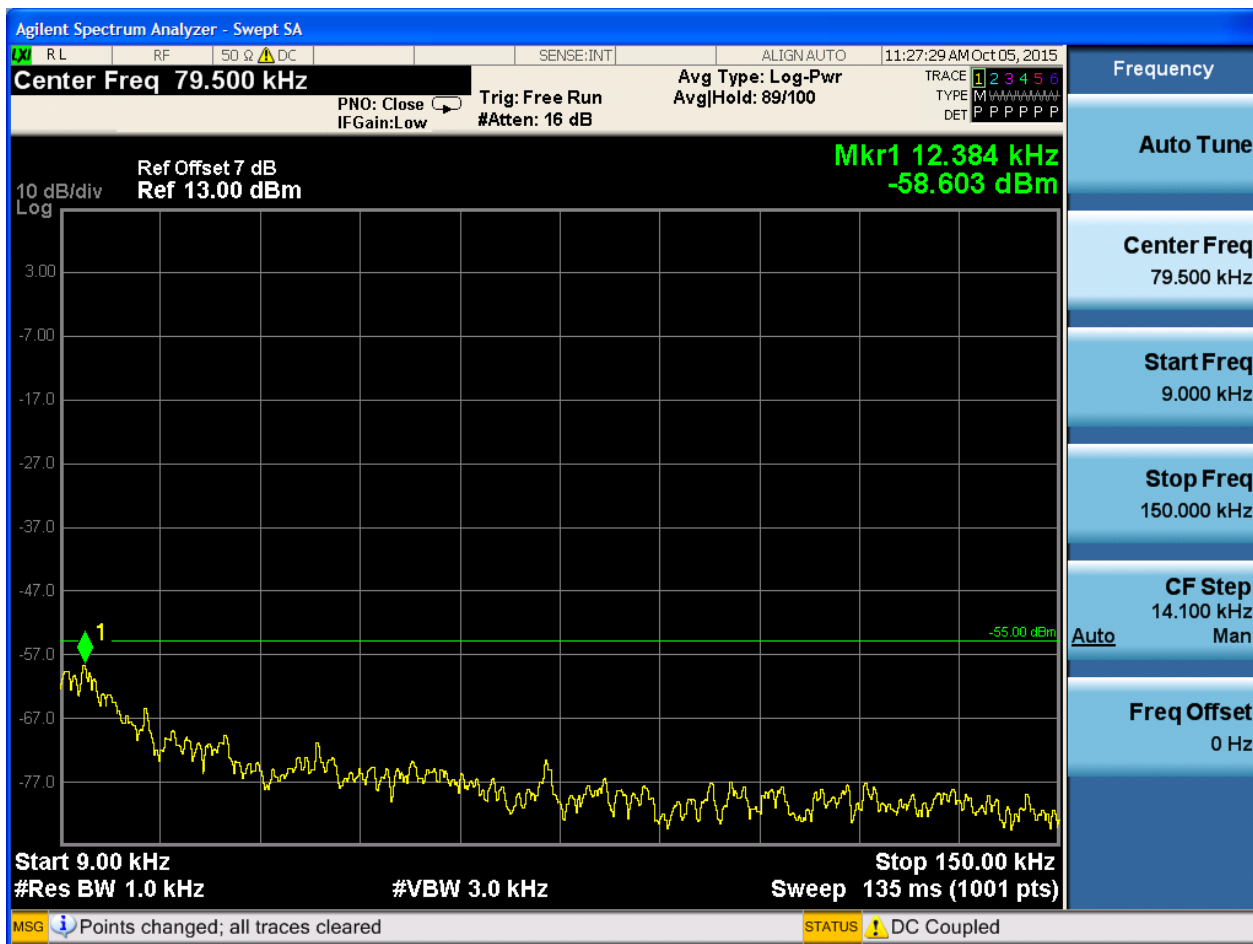


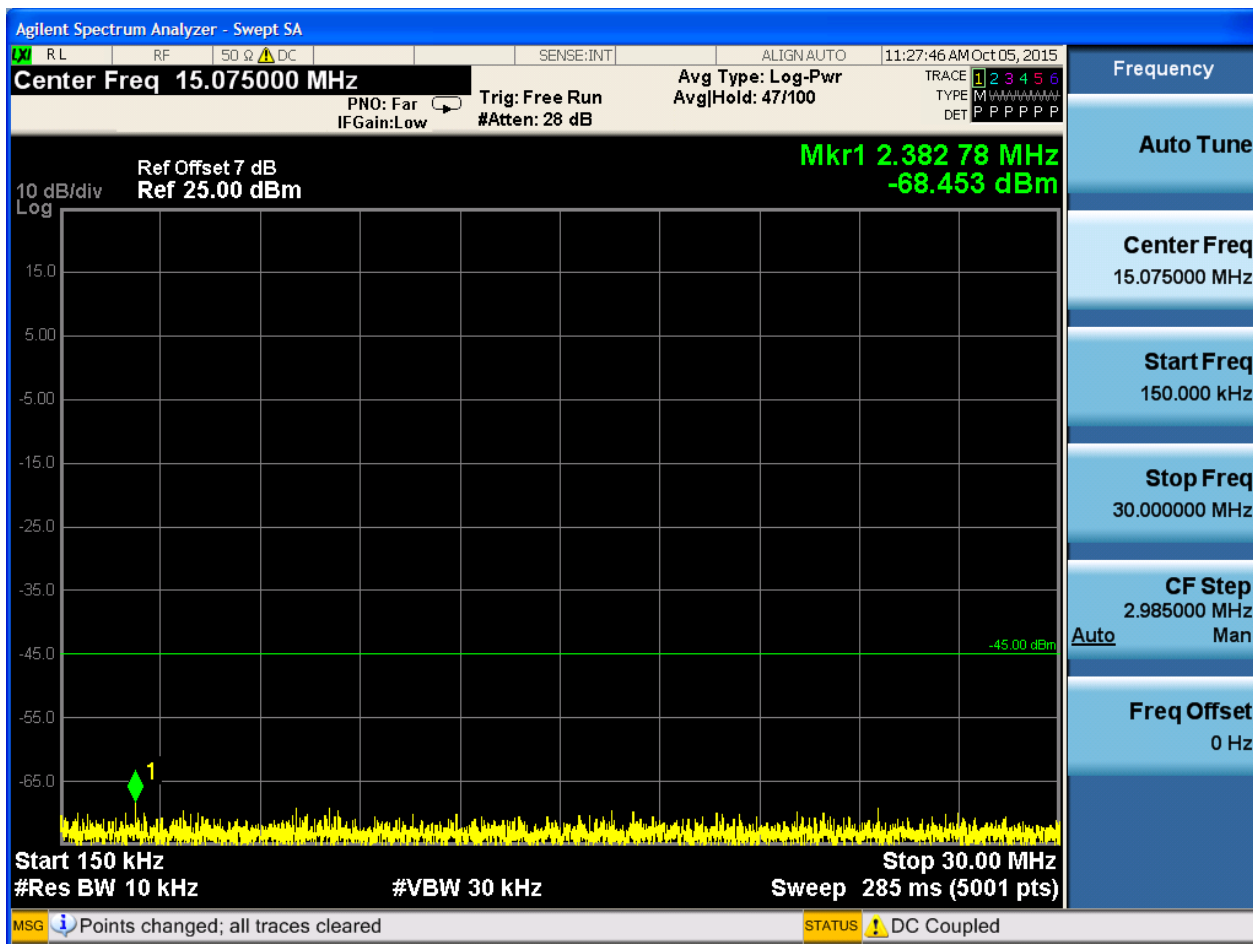




6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



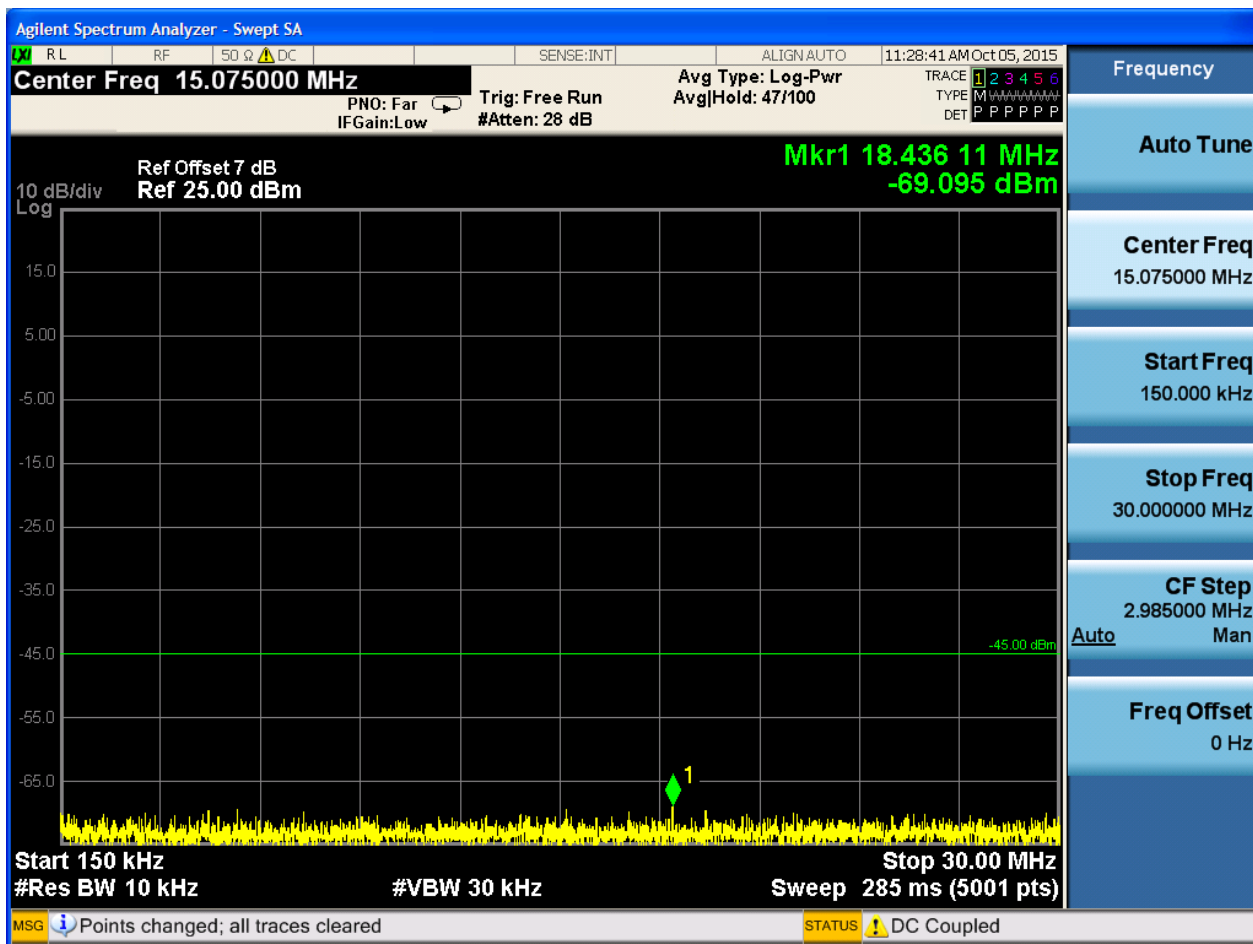




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





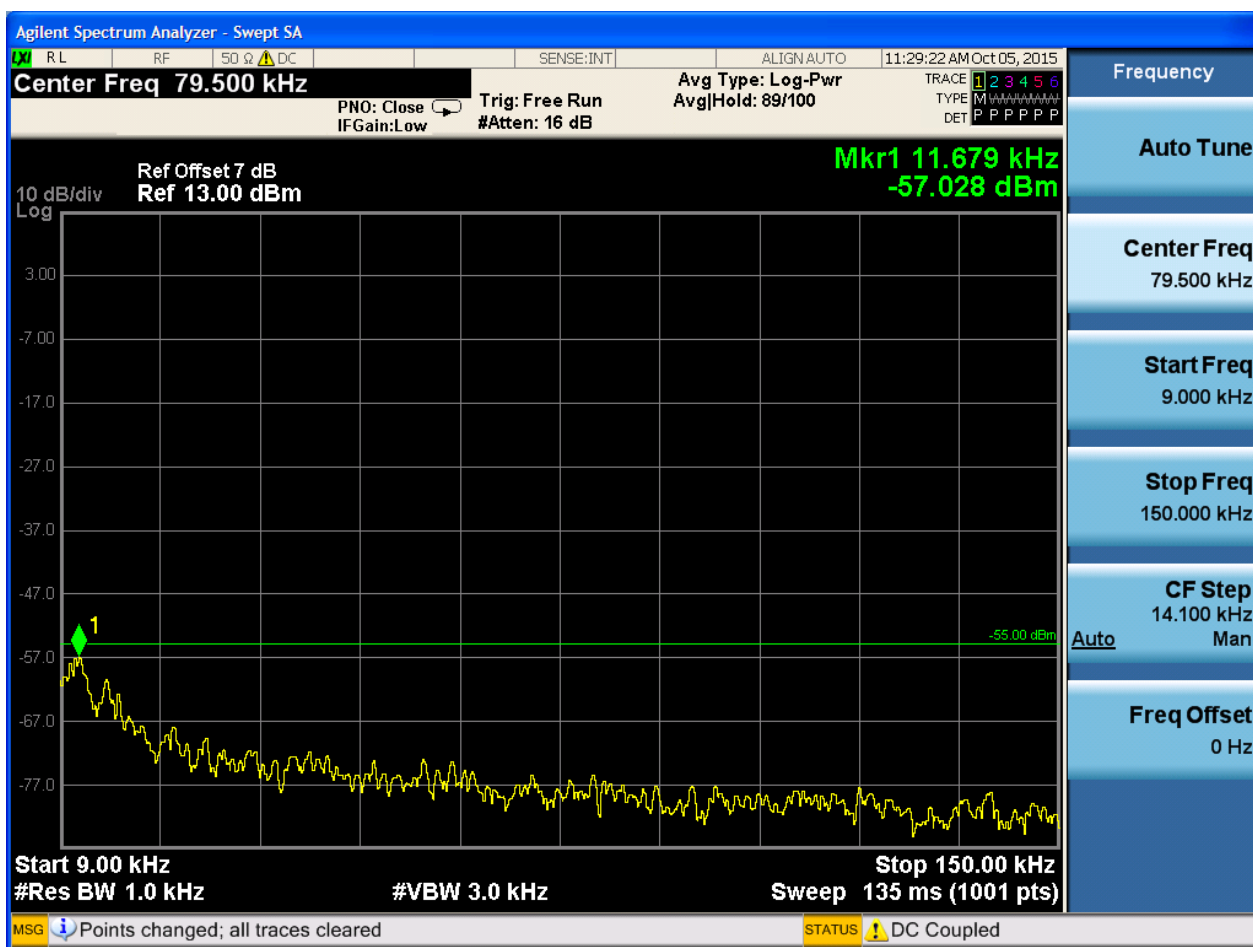




6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

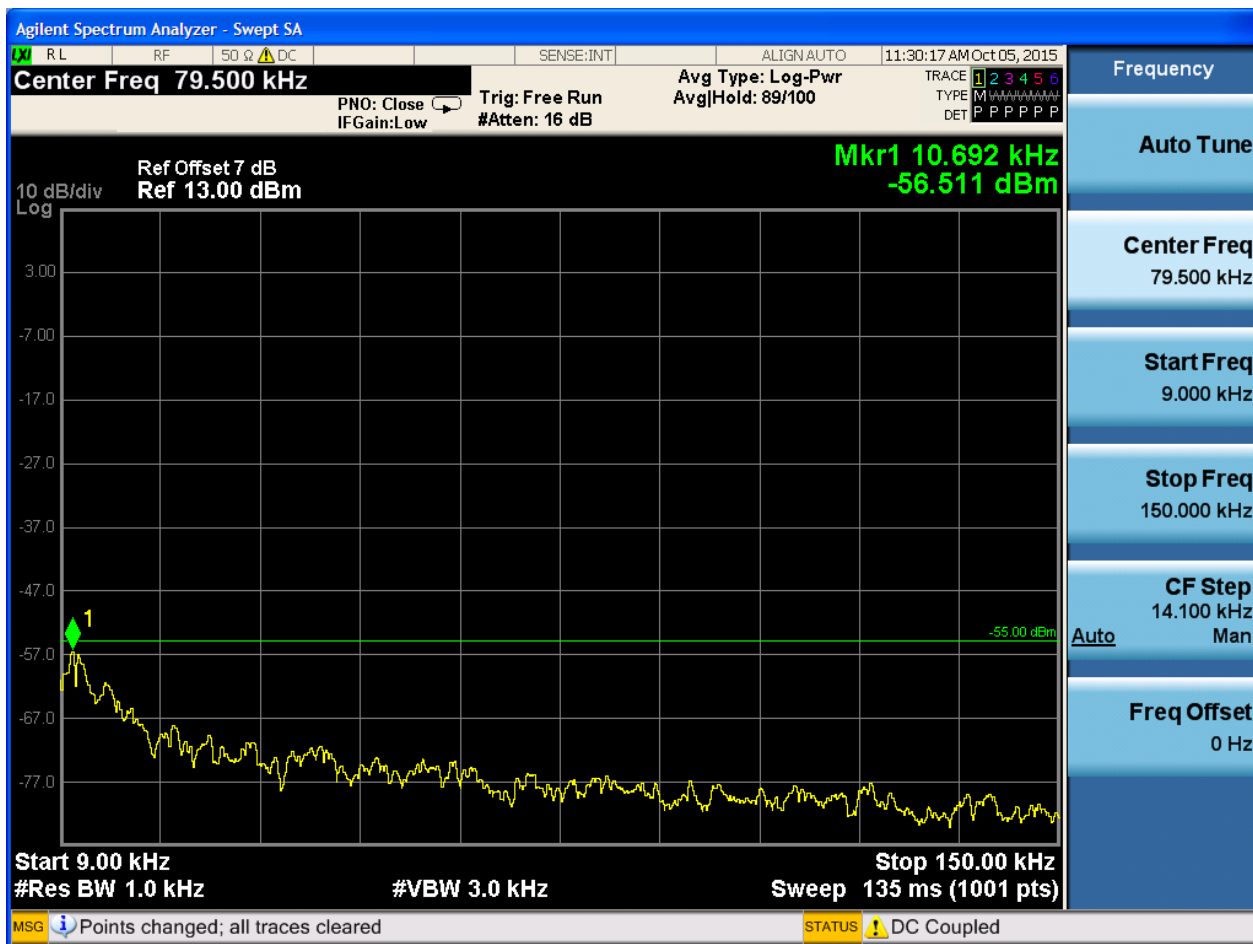






6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



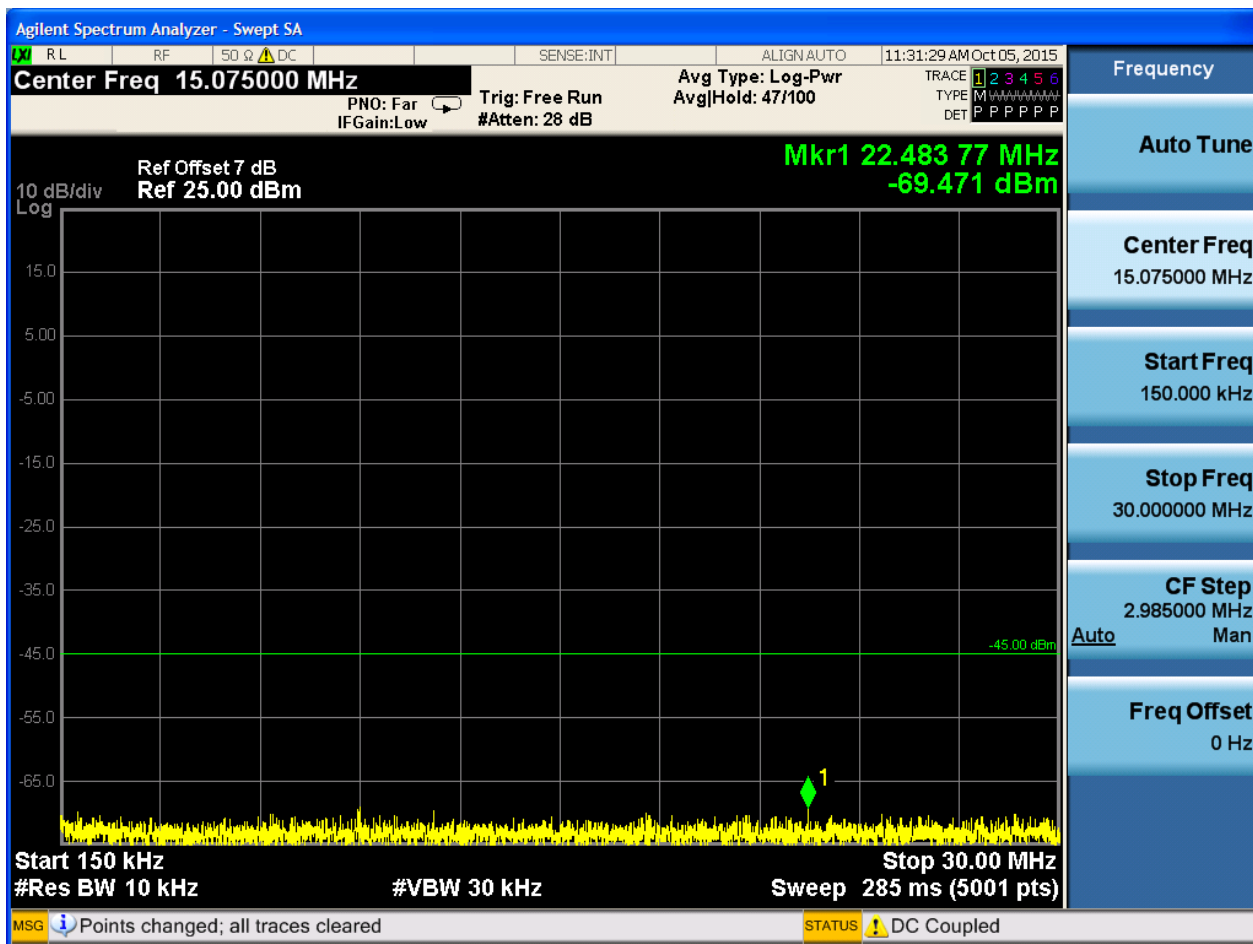




6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: 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

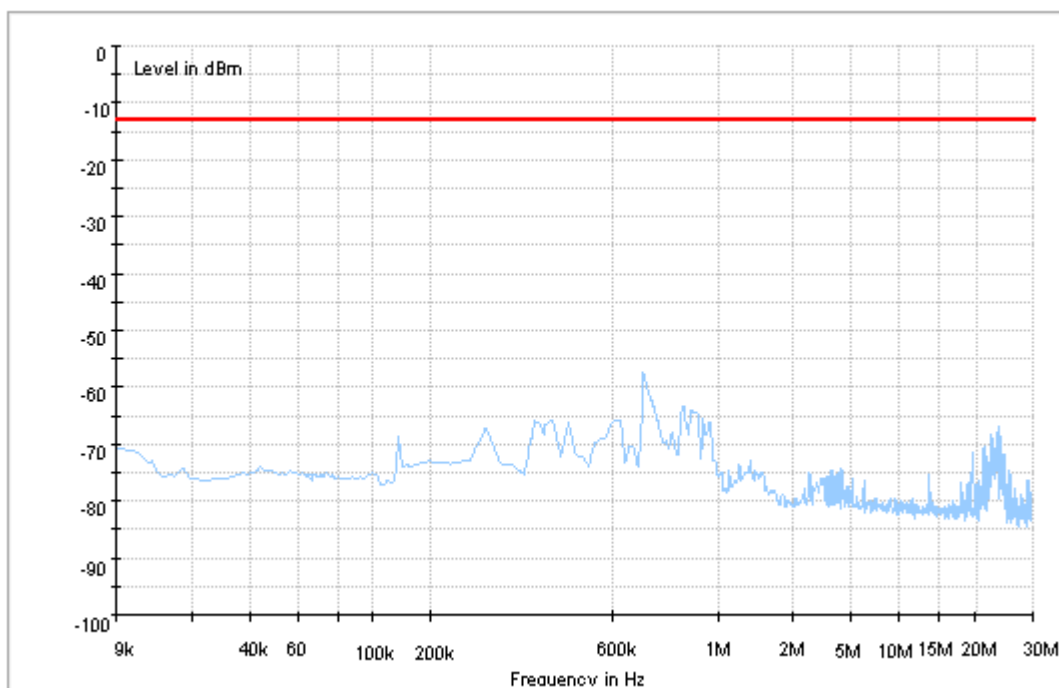
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

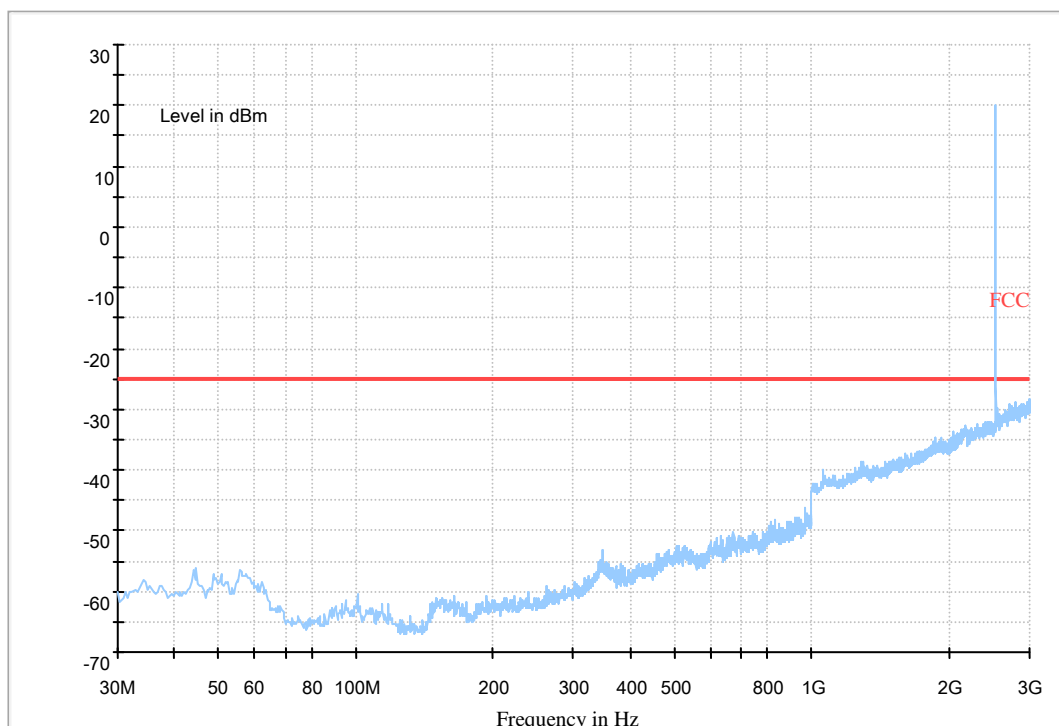
7.1 For LTE

7.1.1 Test Band = BAND7

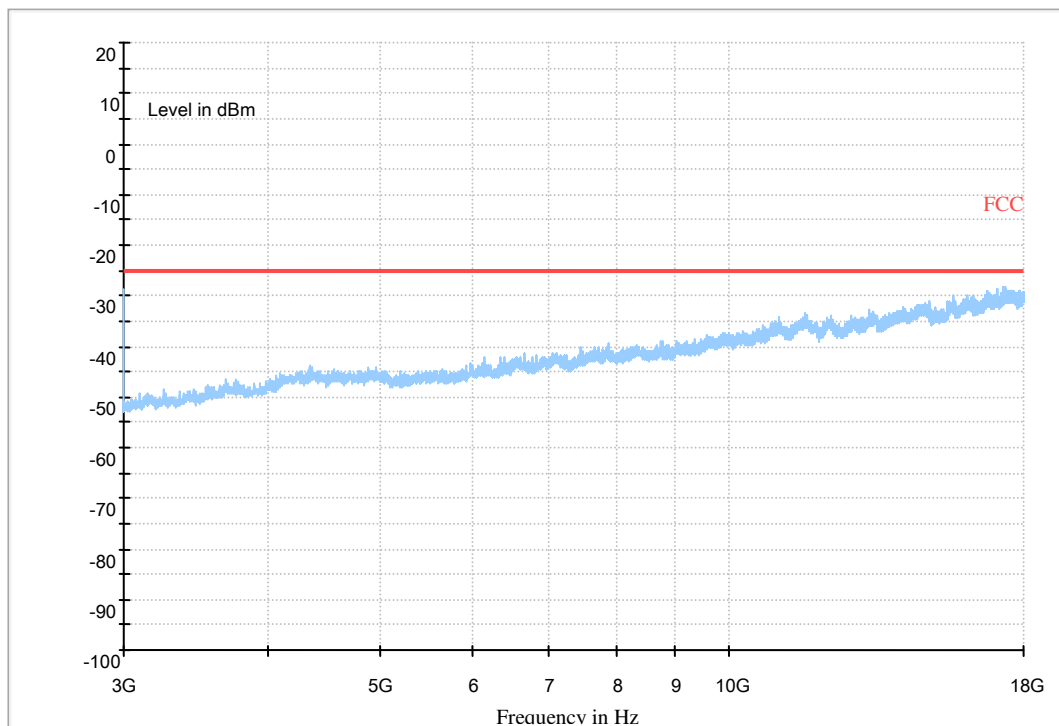
7.1.1.1 Test Bandwidth = 5

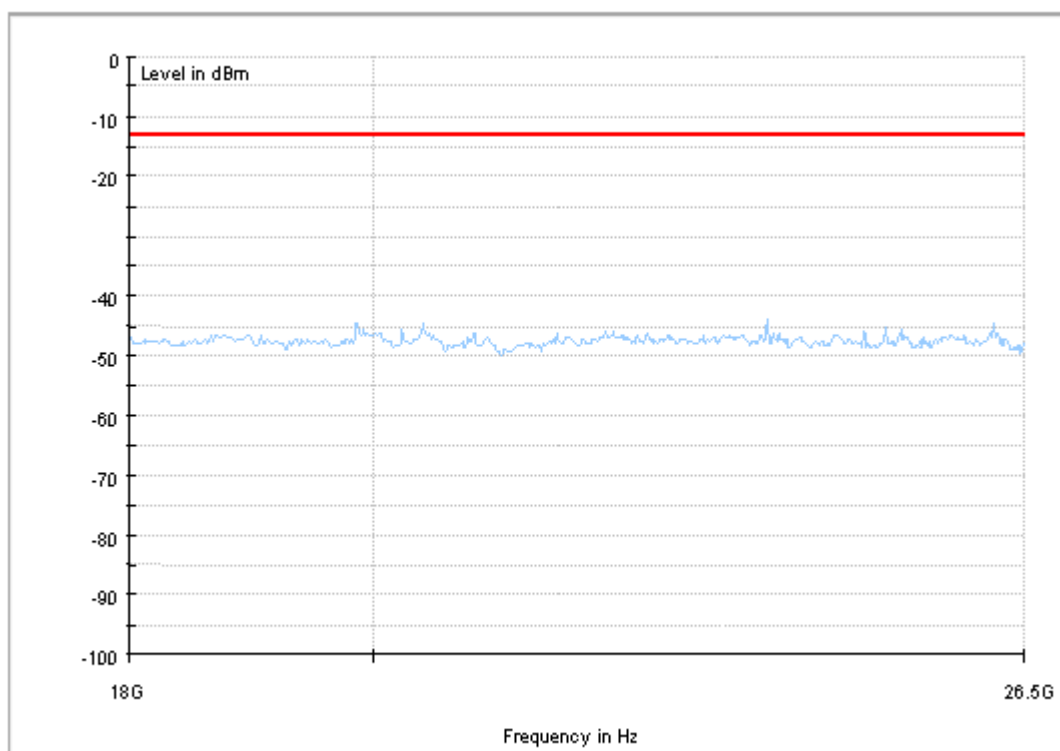


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

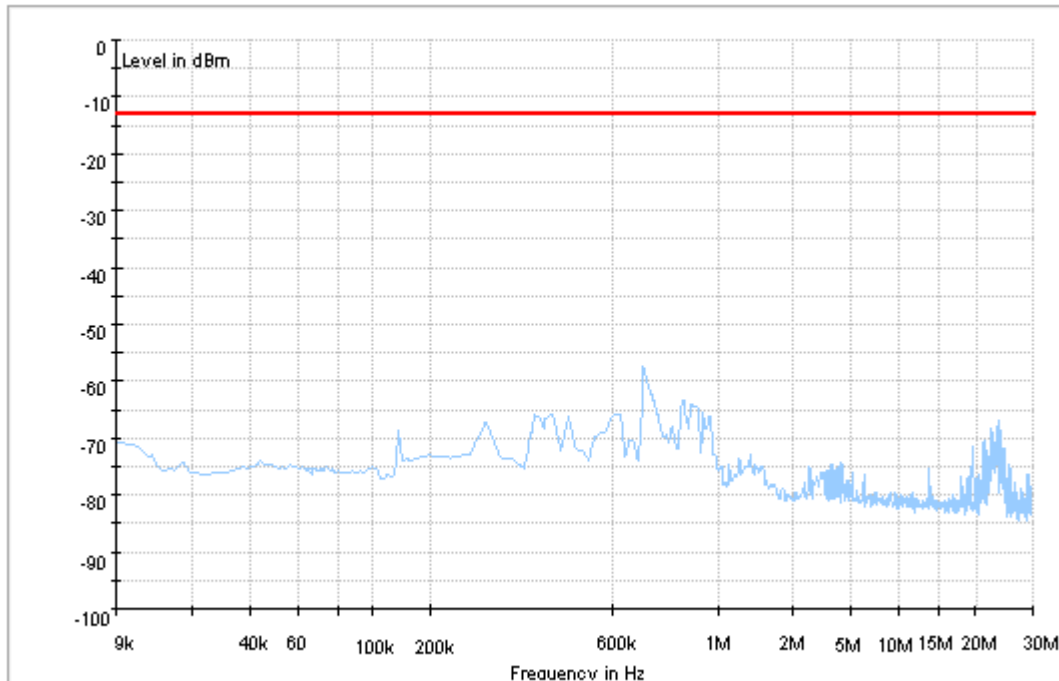


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H





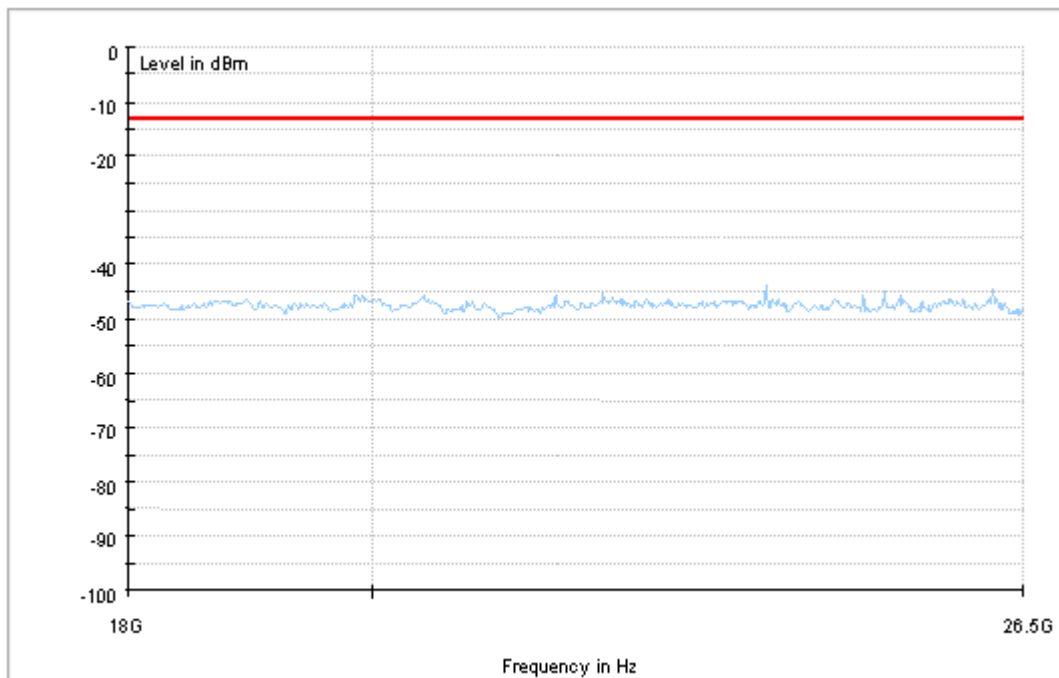
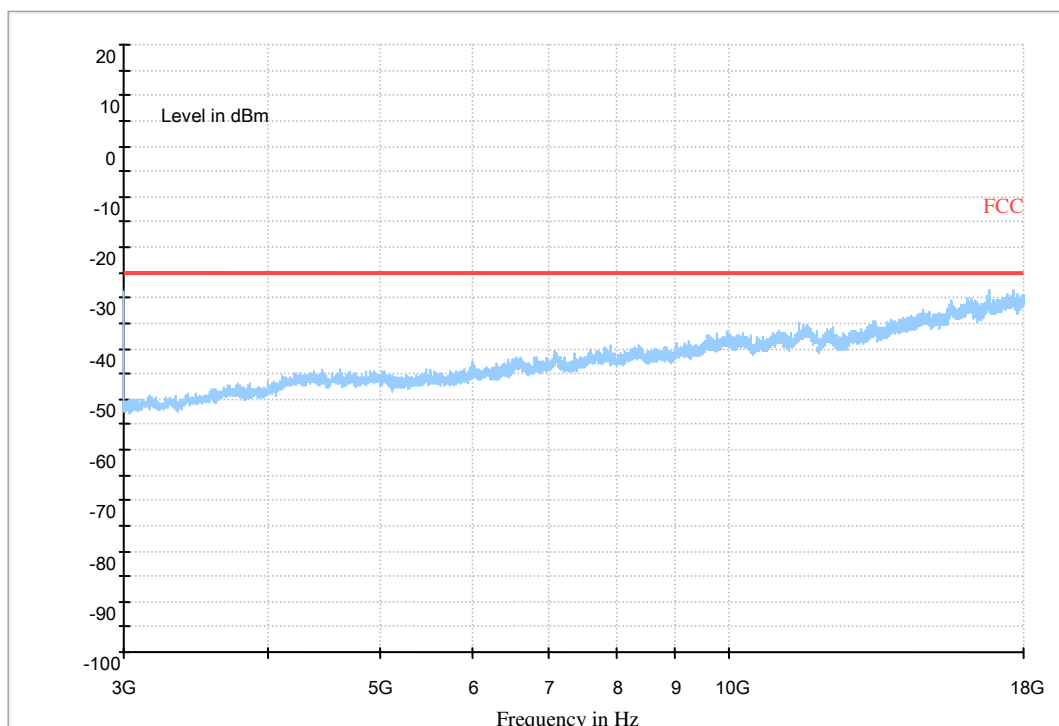
7.1.1.2 Test Bandwidth = 20



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
BAND7	LTE/TM1	5	LCH	TN	VL	-1.52	-0.00061	PASS
					VN	2.03	0.00081	PASS
					VH	7.01	0.0028	PASS
			MCH	TN	VL	-7.88	-0.00311	PASS
					VN	-1.59	-0.00063	PASS
					VH	1.82	0.00072	PASS
			HCH	TN	VL	1.43	0.00056	PASS
					VN	-0.34	-0.00013	PASS
					VH	-2	-0.00078	PASS
		10	LCH	TN	VL	-3.68	-0.00147	PASS
					VN	-1.14	-0.00046	PASS
					VH	1.53	0.00061	PASS
			MCH	TN	VL	-1.99	-0.00079	PASS
					VN	-6.42	-0.00253	PASS
					VH	-3.25	-0.00128	PASS
			HCH	TN	VL	0.49	0.00019	PASS
					VN	-1.3	-0.00051	PASS
					VH	-0.96	-0.00037	PASS
		15	LCH	TN	VL	-0.34	-0.00014	PASS
					VN	-3.28	-0.00131	PASS
					VH	-1.75	-0.0007	PASS
			MCH	TN	VL	-2.9	-0.00114	PASS
					VN	-0.53	-0.00021	PASS
					VH	-3.1	-0.00122	PASS
			HCH	TN	VL	2.4	0.00094	PASS
					VN	3.66	0.00143	PASS
					VH	2.55	0.001	PASS
		20	LCH	TN	VL	0.13	0.00005	PASS
					VN	0.37	0.00015	PASS
					VH	0.06	0.00002	PASS
			MCH	TN	VL	-2.26	-0.00089	PASS
					VN	-0.23	-0.00009	PASS
					VH	-4.62	-0.00182	PASS
			HCH	TN	VL	-0.56	-0.00022	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	0.19	0.00007	PASS
					VH	-0.73	-0.00029	PASS
		5	LCH	TN	VL	7.34	0.00293	PASS
					VN	7.87	0.00314	PASS
					VH	5.06	0.00202	PASS
					VL	-7.62	-0.00301	PASS
			MCH	TN	VN	-2.69	-0.00106	PASS
					VH	-0.56	-0.00022	PASS
					VL	-5.58	-0.00217	PASS
					VN	-0.39	-0.00015	PASS
			HCH	TN	VH	-6.9	-0.00269	PASS
					VL	-0.13	-0.00005	PASS
					VN	0.63	0.00025	PASS
					VH	-1.16	-0.00046	PASS
		10	LCH	TN	VL	-5.79	-0.00228	PASS
					VN	-1.39	-0.00055	PASS
					VH	-4.68	-0.00185	PASS
			MCH	TN	VL	-0.87	-0.00034	PASS
					VN	-0.93	-0.00036	PASS
					VH	-2.07	-0.00081	PASS
			HCH	TN	VL	-0.82	-0.00033	PASS
					VN	0.72	0.00029	PASS
					VH	2.15	0.00086	PASS
			MCH	TN	VL	-3.39	-0.00134	PASS
					VN	-2.29	-0.0009	PASS
					VH	-3.66	-0.00144	PASS
			HCH	TN	VL	4.62	0.0018	PASS
					VN	2.23	0.00087	PASS
					VH	3.09	0.00121	PASS
		20	LCH	TN	VL	3.95	0.00157	PASS
					VN	1.83	0.00073	PASS
					VH	3.28	0.00131	PASS
			MCH	TN	VL	-3.86	-0.00152	PASS
					VN	-0.31	-0.00012	PASS
					VH	-0.76	-0.0003	PASS
			HCH	TN	VL	0.17	0.00007	PASS
					VN	4.02	0.00157	PASS
					VH	2.57	0.001	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	VN	-30	6.55	0.00262	PASS
					-20	14.45	0.00577	PASS
					-10	10.4	0.00416	PASS
					0	14.65	0.00585	PASS
					10	6.54	0.00261	PASS
					20	18.53	0.0074	PASS
					30	10.63	0.00425	PASS
					40	4.75	0.0019	PASS
					50	9	0.0036	PASS
			MCH	VN	-30	1.26	0.0005	PASS
					-20	-6.32	-0.00249	PASS
					-10	-3.79	-0.0015	PASS
					0	-2.96	-0.00117	PASS
					10	-4.91	-0.00194	PASS
					20	-1.89	-0.00075	PASS
					30	-3.09	-0.00122	PASS
					40	-0.21	-0.00008	PASS
					50	1.3	0.00051	PASS
			HCH	VN	-30	-0.64	-0.00025	PASS
					-20	-4.92	-0.00192	PASS
					-10	-3.36	-0.00131	PASS
					0	-0.82	-0.00032	PASS
					10	0.21	0.00008	PASS
					20	3.88	0.00151	PASS
					30	5.54	0.00216	PASS
					40	4.13	0.00161	PASS
					50	-3.19	-0.00124	PASS
		10	LCH	VN	-30	0.43	0.00017	PASS
					-20	-2.89	-0.00115	PASS
					-10	-2.55	-0.00102	PASS
					0	-1.07	-0.00043	PASS
					10	-2.78	-0.00111	PASS
					20	-1.36	-0.00054	PASS
					30	-5.04	-0.00201	PASS
					40	-4.43	-0.00177	PASS
					50	-0.13	-0.00005	PASS
			MCH	VN	-30	-4.38	-0.00173	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-1.97	-0.00078	PASS
					-10	-1.04	-0.00041	PASS
					0	-0.93	-0.00037	PASS
					10	-4.41	-0.00174	PASS
					20	-2.75	-0.00108	PASS
					30	-3.6	-0.00142	PASS
					40	-0.24	-0.00009	PASS
					50	-2.85	-0.00112	PASS
			HCH	VN	-30	-0.4	-0.00016	PASS
					-20	2.6	0.00101	PASS
					-10	1.67	0.00065	PASS
					0	1.76	0.00069	PASS
					10	0.93	0.00036	PASS
					20	0.03	0.00001	PASS
					30	1.76	0.00069	PASS
					40	0.94	0.00037	PASS
					50	2.47	0.00096	PASS
		15	LCH	VN	-30	0.3	0.00012	PASS
					-20	2.02	0.00081	PASS
					-10	-1.5	-0.0006	PASS
					0	0.89	0.00035	PASS
					10	-1.22	-0.00049	PASS
					20	-1.6	-0.00064	PASS
					30	-0.27	-0.00011	PASS
					40	0.19	0.00008	PASS
					50	-0.69	-0.00028	PASS
			MCH	VN	-30	-4.51	-0.00178	PASS
					-20	-2.23	-0.00088	PASS
					-10	-2.56	-0.00101	PASS
					0	-5.01	-0.00198	PASS
					10	-2.39	-0.00094	PASS
					20	-1.39	-0.00055	PASS
					30	-5.75	-0.00227	PASS
					40	-3.73	-0.00147	PASS
					50	-1.66	-0.00065	PASS
			HCH	VN	-30	3.12	0.00122	PASS
					-20	2.82	0.0011	PASS
					-10	2.19	0.00085	PASS
					0	1.76	0.00069	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	4.09	0.0016	PASS
					20	6.37	0.00249	PASS
					30	-0.59	-0.00023	PASS
					40	2.82	0.0011	PASS
					50	1.24	0.00048	PASS
			LCH	VN	-30	0.94	0.00037	PASS
					-20	0.93	0.00037	PASS
					-10	2.47	0.00098	PASS
					0	-0.07	-0.00003	PASS
					10	4.61	0.00184	PASS
					20	4.43	0.00176	PASS
					30	0.37	0.00015	PASS
					40	1.56	0.00062	PASS
					50	2.88	0.00115	PASS
		20	MCH	VN	-30	-2.07	-0.00082	PASS
					-20	-3.56	-0.0014	PASS
					-10	-2.06	-0.00081	PASS
					0	-3.81	-0.0015	PASS
					10	-2.68	-0.00106	PASS
					20	-3.48	-0.00137	PASS
					30	-2.09	-0.00082	PASS
					40	-3.99	-0.00157	PASS
					50	-1.37	-0.00054	PASS
			HCH	VN	-30	-1.29	-0.0005	PASS
					-20	-1.72	-0.00067	PASS
					-10	-0.67	-0.00026	PASS
					0	-1.24	-0.00048	PASS
					10	2.06	0.0008	PASS
					20	0.04	0.00002	PASS
					30	1.69	0.00066	PASS
					40	1.79	0.0007	PASS
					50	2.73	0.00107	PASS
	LTE/TM2	5	LCH	VN	-30	7.97	0.00318	PASS
					-20	6.92	0.00277	PASS
					-10	10.47	0.00418	PASS
					0	15.55	0.00621	PASS
					10	7.07	0.00283	PASS
					20	11.06	0.00442	PASS
					30	10.51	0.0042	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	7.54	0.00301	PASS
					50	7.74	0.00309	PASS
			MCH	VN	-30	-4.09	-0.00161	PASS
					-20	1.87	0.00074	PASS
					-10	2.83	0.00112	PASS
					0	-1.47	-0.00058	PASS
					10	-3.69	-0.00146	PASS
					20	-3.08	-0.00121	PASS
					30	-0.29	-0.00011	PASS
					40	-0.17	-0.00007	PASS
					50	-4.08	-0.00161	PASS
			HCH	VN	-30	-1.96	-0.00076	PASS
					-20	-2.43	-0.00095	PASS
					-10	-0.74	-0.00029	PASS
					0	2.66	0.00104	PASS
					10	-0.07	-0.00003	PASS
					20	1.09	0.00042	PASS
					30	-1.56	-0.00061	PASS
					40	2.33	0.00091	PASS
					50	-1.26	-0.00049	PASS
		10	LCH	VN	-30	-1.42	-0.00057	PASS
					-20	-0.79	-0.00032	PASS
					-10	-1.97	-0.00079	PASS
					0	-0.99	-0.0004	PASS
					10	1.63	0.00065	PASS
					20	-1.73	-0.00069	PASS
					30	-1.77	-0.00071	PASS
					40	-0.2	-0.00008	PASS
					50	-3.66	-0.00146	PASS
			MCH	VN	-30	-2.66	-0.00105	PASS
					-20	-3.43	-0.00135	PASS
					-10	-2.56	-0.00101	PASS
					0	-2.23	-0.00088	PASS
					10	0.94	0.00037	PASS
					20	-3.56	-0.0014	PASS
					30	-1.44	-0.00057	PASS
					40	-2.27	-0.0009	PASS
					50	-2.39	-0.00094	PASS
			HCH	VN	-30	4.23	0.00165	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-0.89	-0.00035	PASS
					-10	0.56	0.00022	PASS
					0	1.06	0.00041	PASS
					10	-0.79	-0.00031	PASS
					20	-0.26	-0.0001	PASS
					30	0.07	0.00003	PASS
					40	1.63	0.00064	PASS
					50	4.19	0.00163	PASS
		15	LCH	VN	-30	-0.73	-0.00029	PASS
					-20	-0.1	-0.00004	PASS
					-10	-1.85	-0.00074	PASS
					0	1.87	0.00075	PASS
					10	1.49	0.00059	PASS
					20	-1.32	-0.00053	PASS
					30	0.33	0.00013	PASS
					40	1.12	0.00045	PASS
					50	-0.31	-0.00012	PASS
			MCH	VN	-30	-2.86	-0.00113	PASS
					-20	-4.88	-0.00193	PASS
					-10	-4.12	-0.00163	PASS
					0	-1.23	-0.00049	PASS
					10	-1.49	-0.00059	PASS
					20	-2.36	-0.00093	PASS
					30	-4.46	-0.00176	PASS
					40	-4.45	-0.00176	PASS
					50	-2.23	-0.00088	PASS
			HCH	VN	-30	3.19	0.00124	PASS
					-20	1.7	0.00066	PASS
					-10	1.8	0.0007	PASS
					0	1.93	0.00075	PASS
					10	2.32	0.00091	PASS
					20	1.73	0.00068	PASS
					30	1.65	0.00064	PASS
					40	0	0	PASS
					50	1.72	0.00067	PASS
		20	LCH	VN	-30	1.6	0.00064	PASS
					-20	3.35	0.00133	PASS
					-10	2.73	0.00109	PASS
					0	2.2	0.00088	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	1.63	0.00065	PASS
					20	3.08	0.00123	PASS
					30	0.79	0.00031	PASS
					40	2.33	0.00093	PASS
					50	0.2	0.00008	PASS
			MCH	VN	-30	-6.04	-0.00238	PASS
					-20	-2.8	-0.0011	PASS
					-10	-3.52	-0.00139	PASS
					0	-3.71	-0.00146	PASS
					10	-3.48	-0.00137	PASS
					20	-2.35	-0.00093	PASS
					30	-3.06	-0.00121	PASS
					40	-4.85	-0.00191	PASS
					50	-3.69	-0.00146	PASS
			HCH	VN	-30	1.92	0.00075	PASS
					-20	0.4	0.00016	PASS
					-10	-1.1	-0.00043	PASS
					0	2	0.00078	PASS
					10	-0.8	-0.00031	PASS
					20	1.42	0.00055	PASS
					30	0.39	0.00015	PASS
					40	-0.89	-0.00035	PASS
					50	-0.09	-0.00004	PASS

END