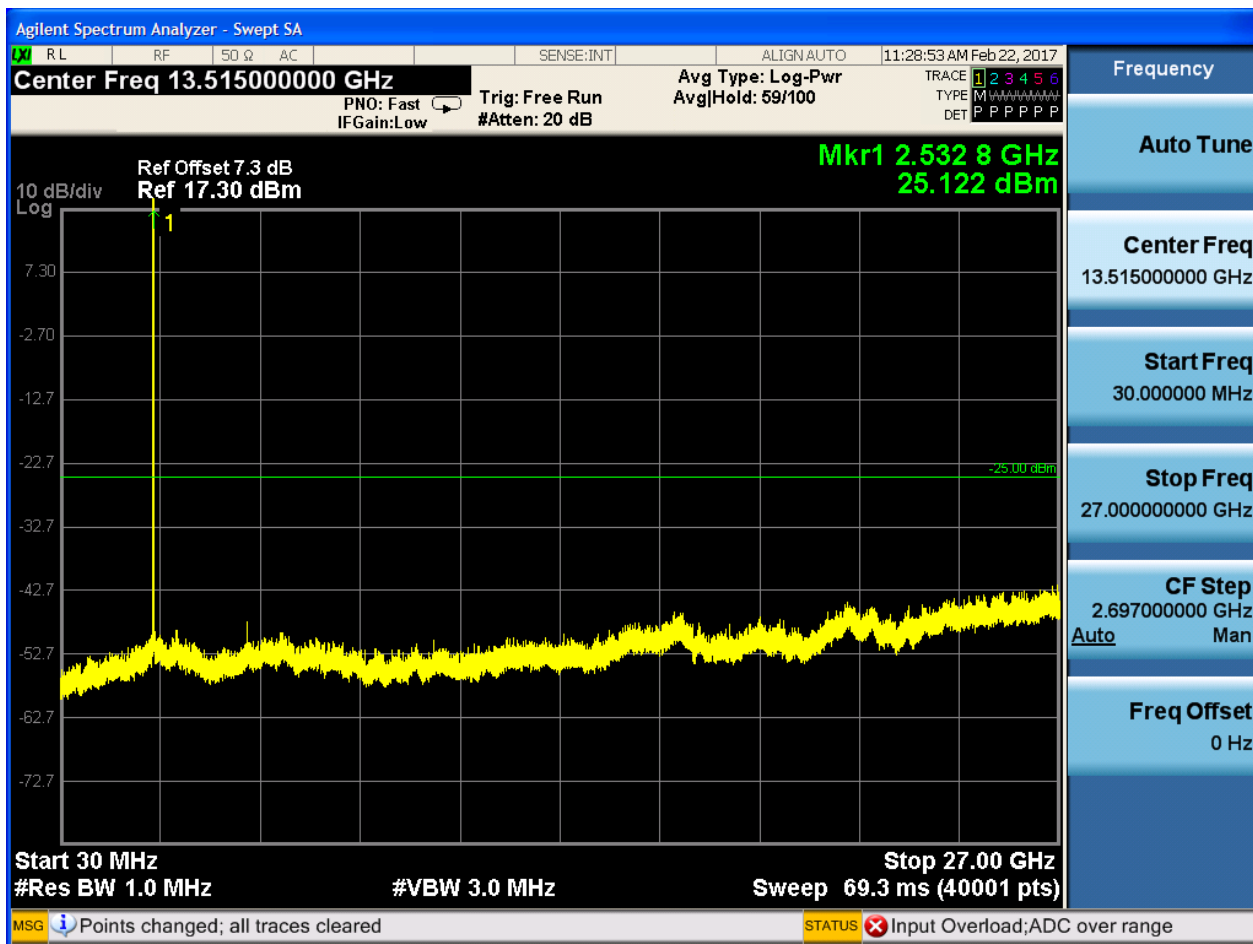
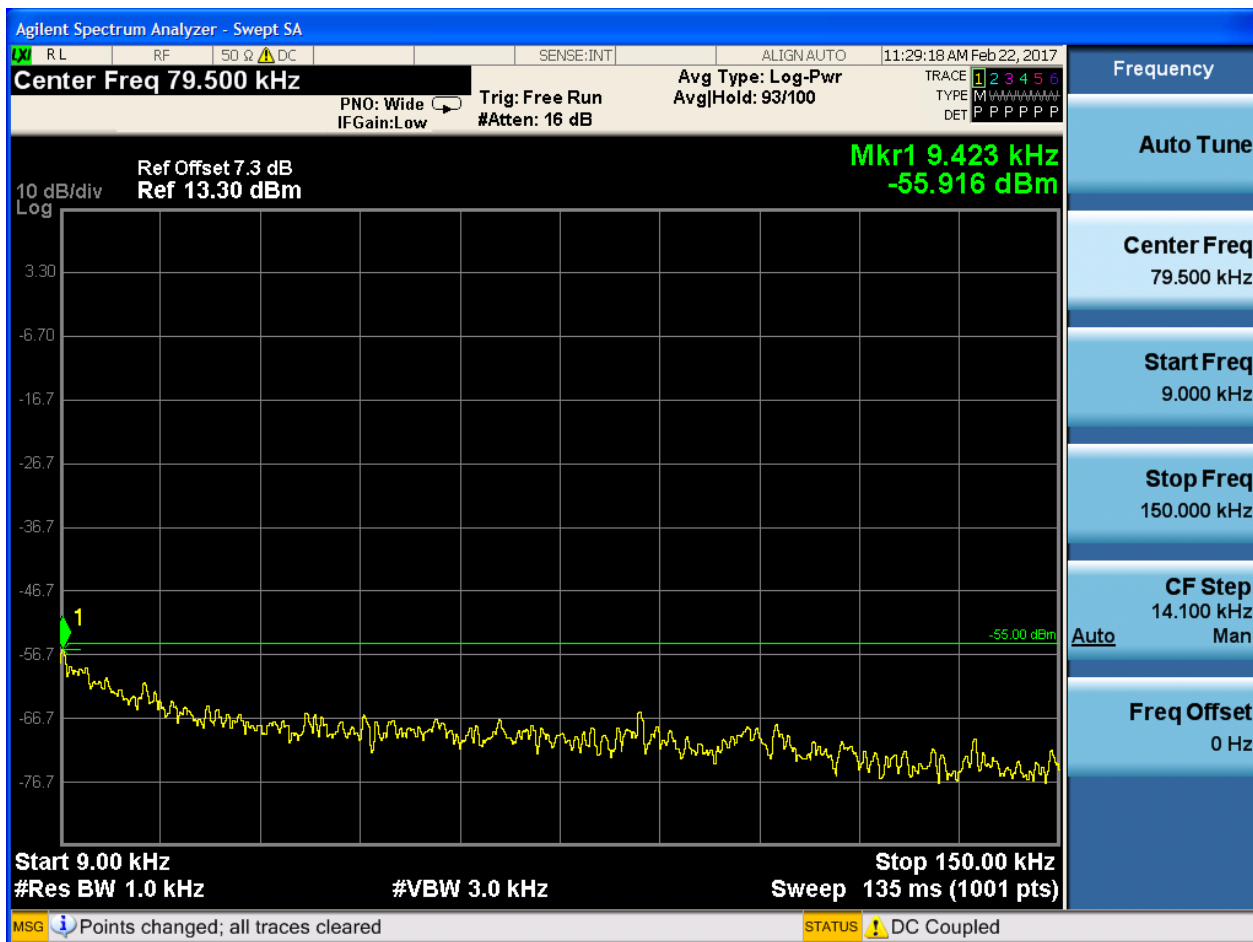




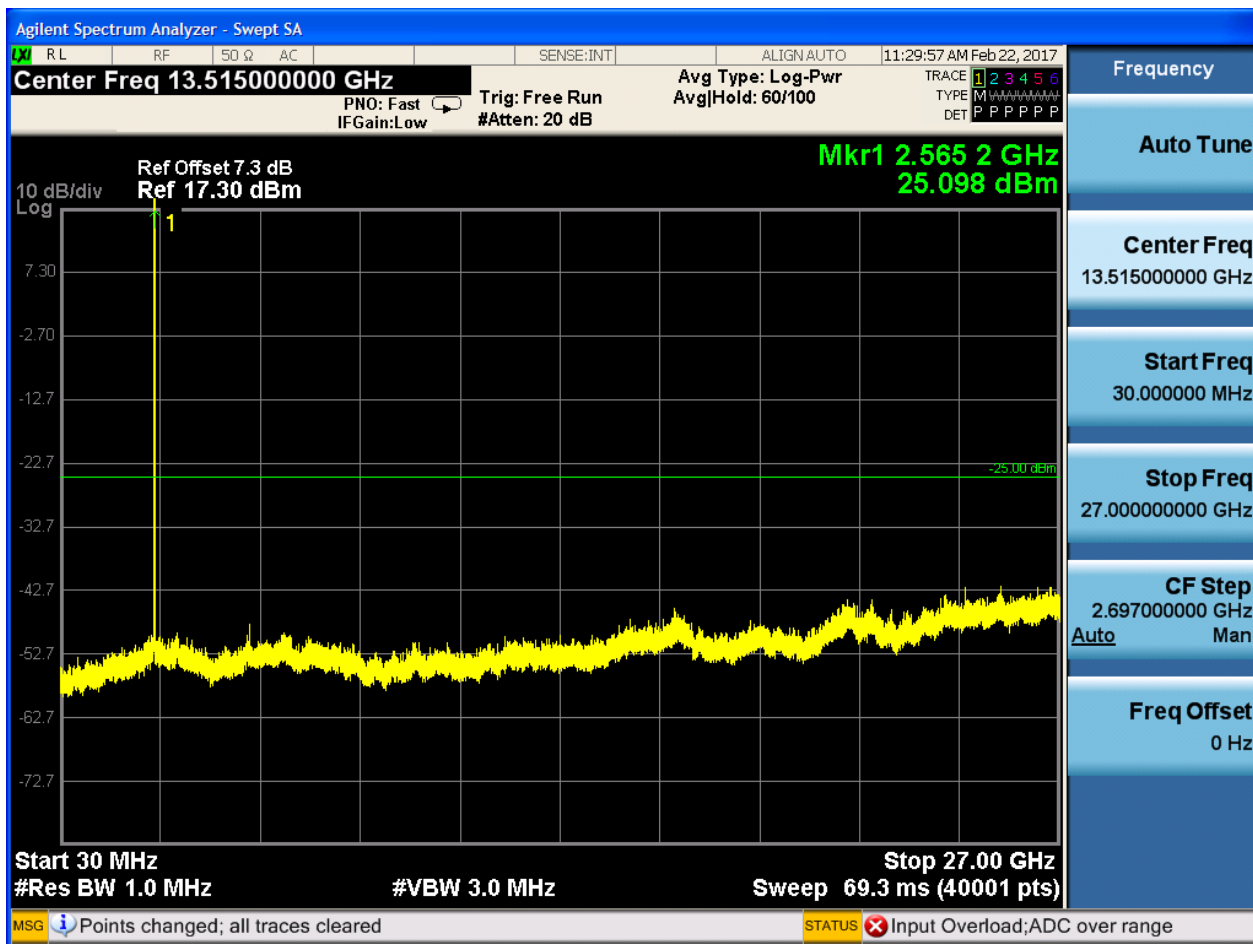


6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0





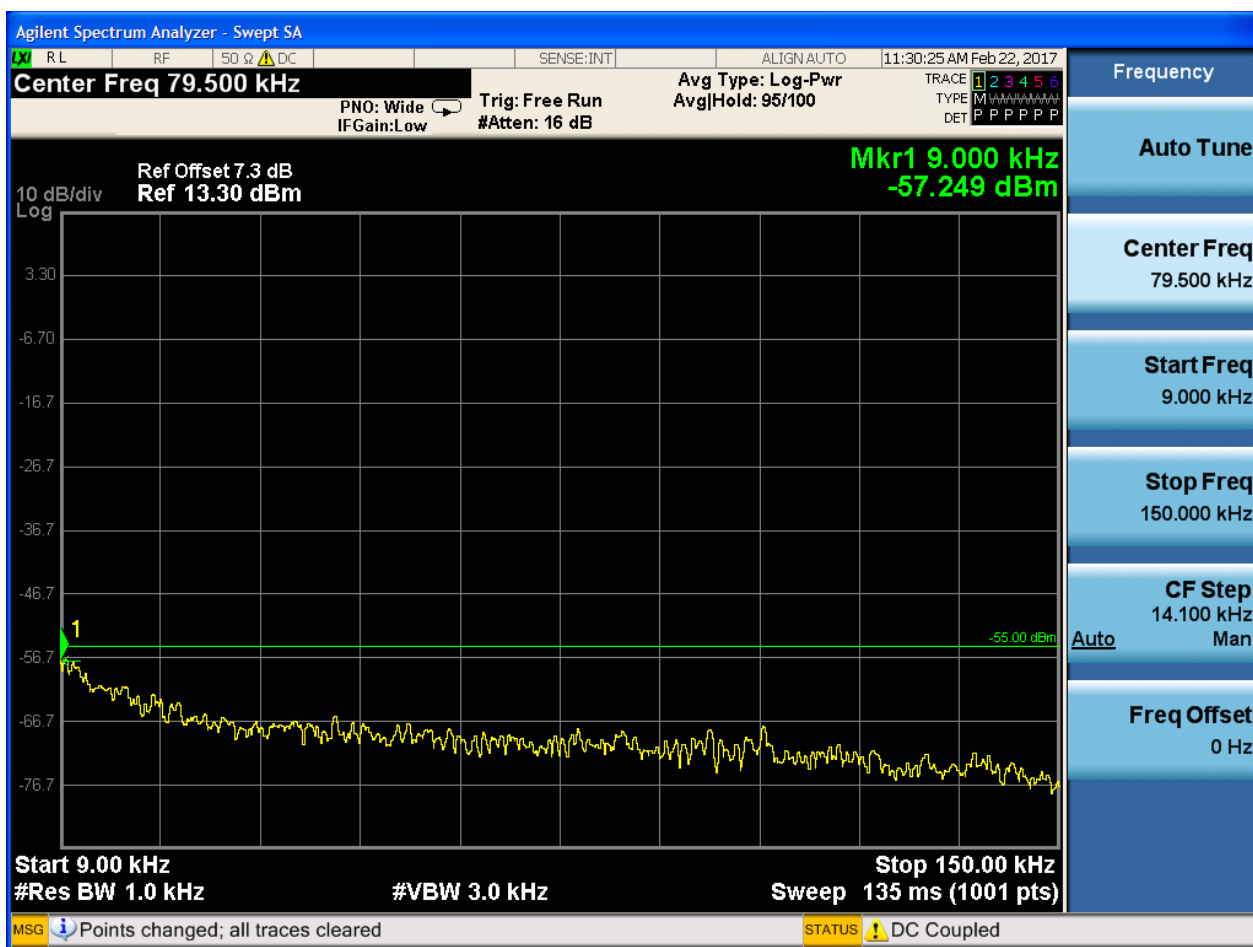




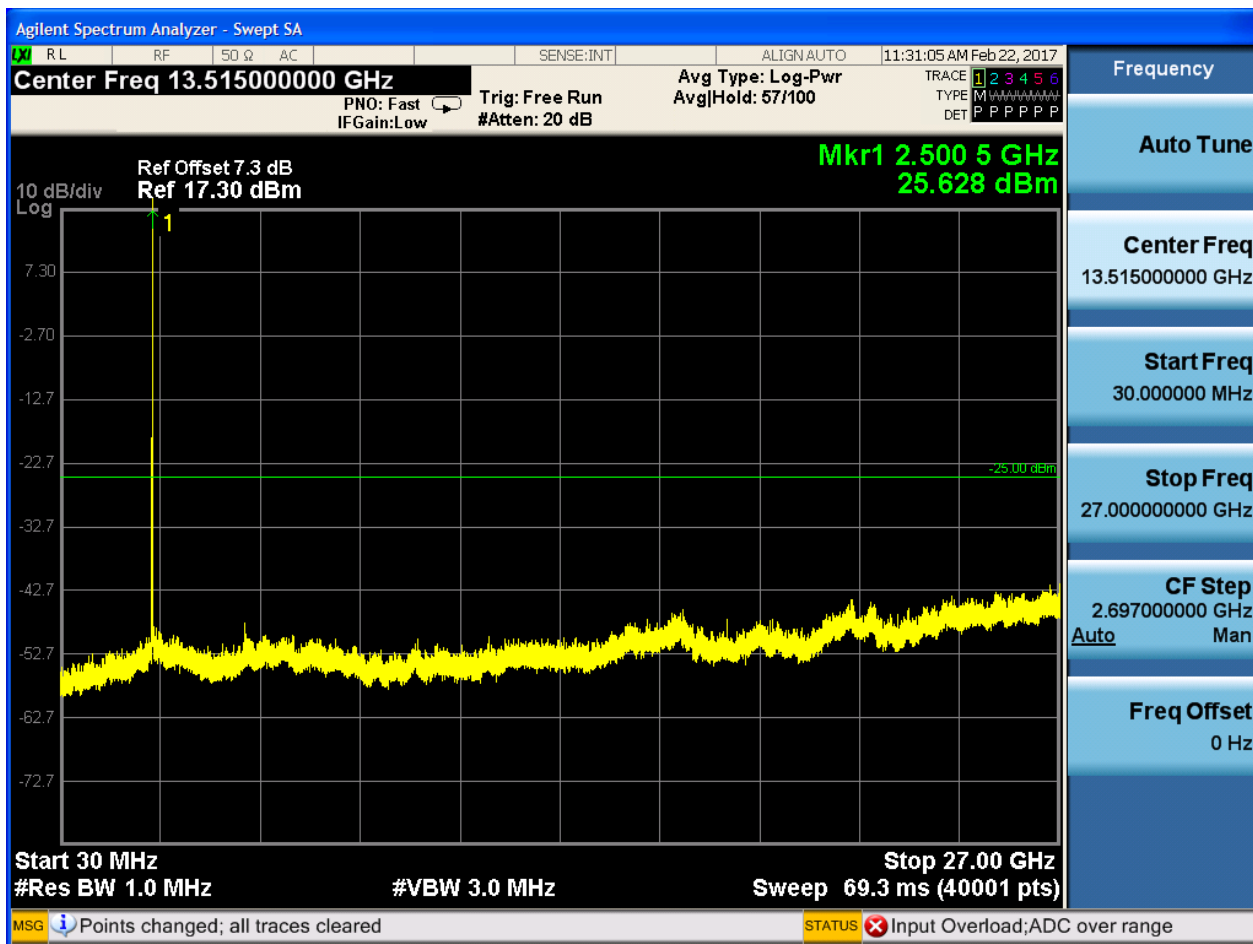
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



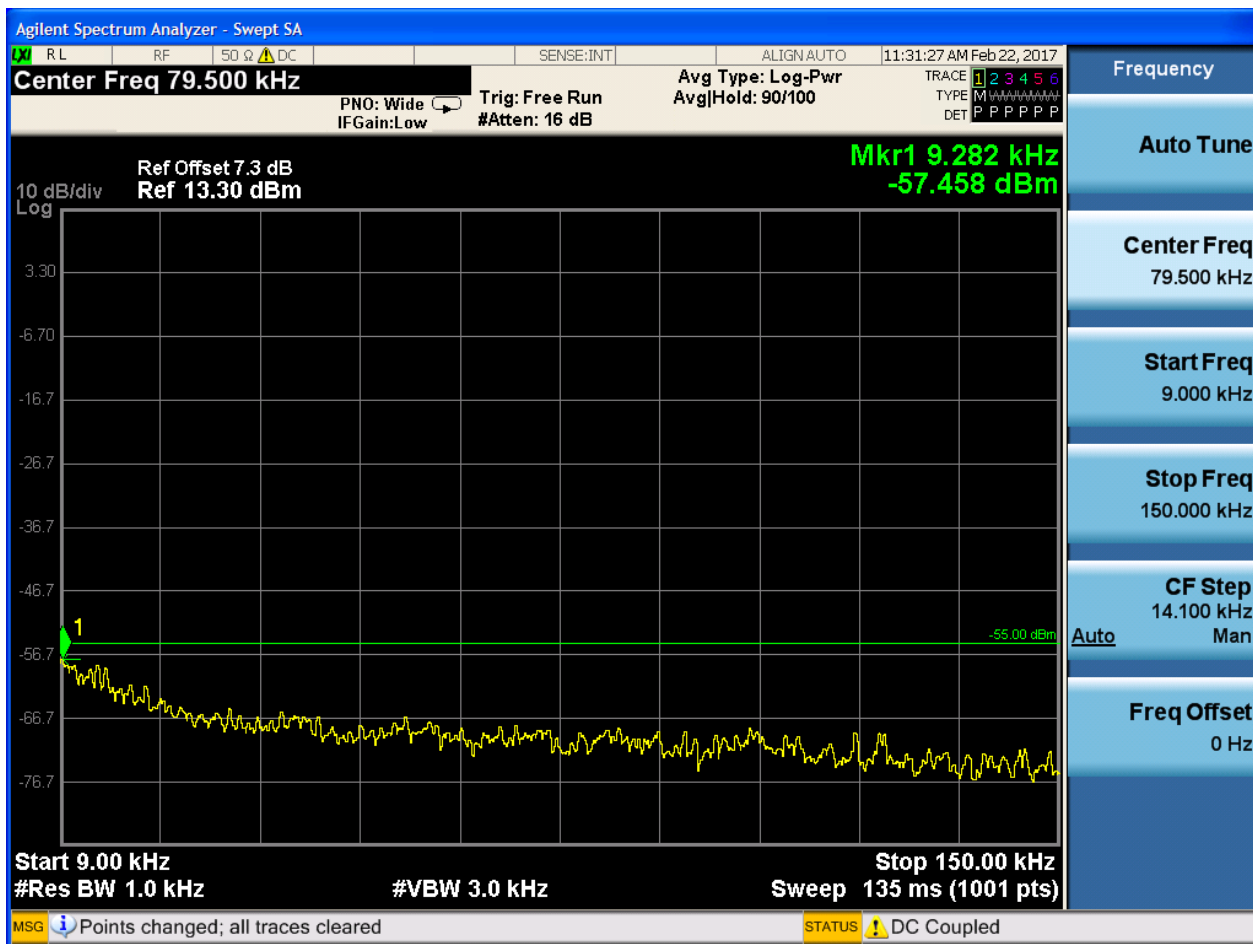


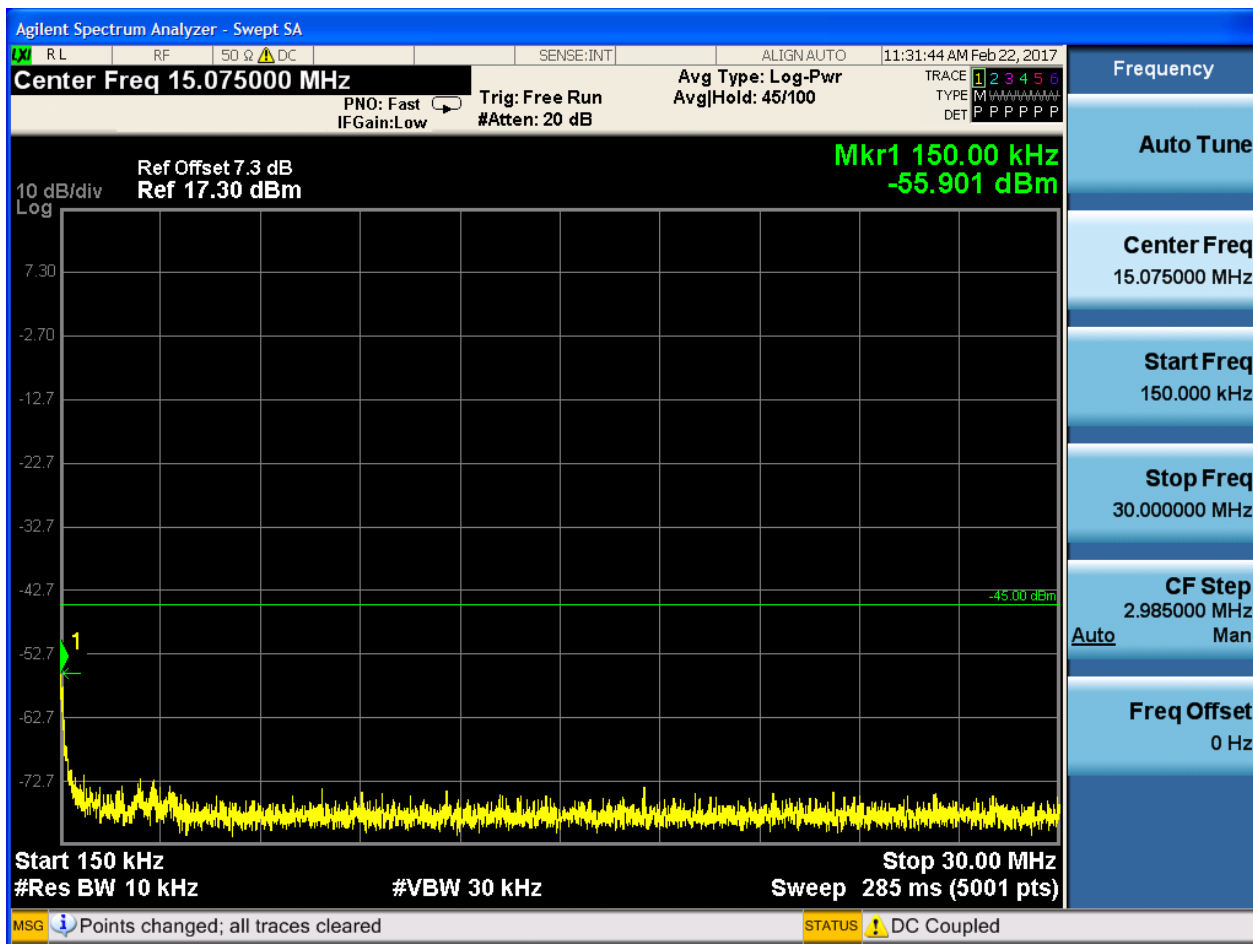


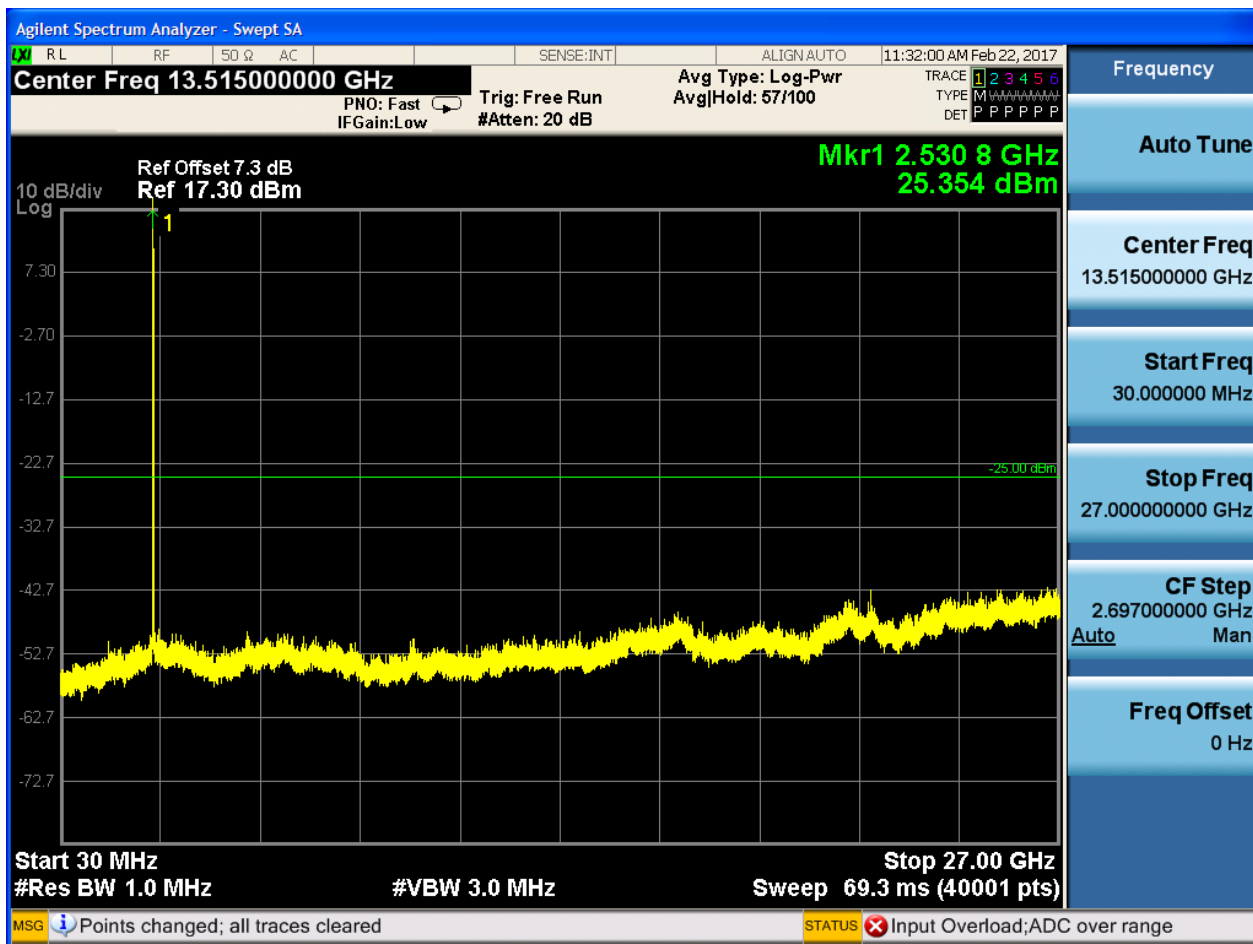


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



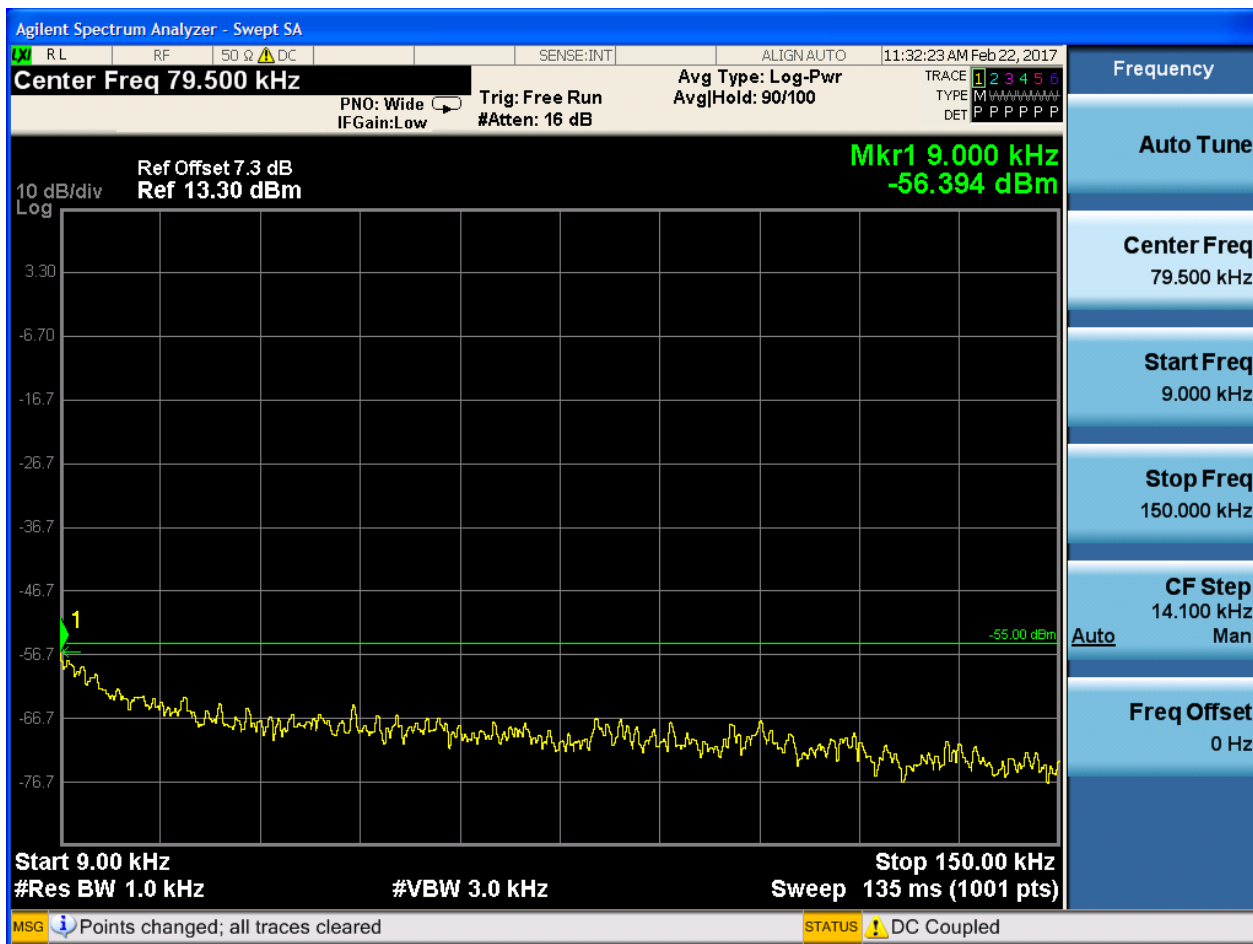




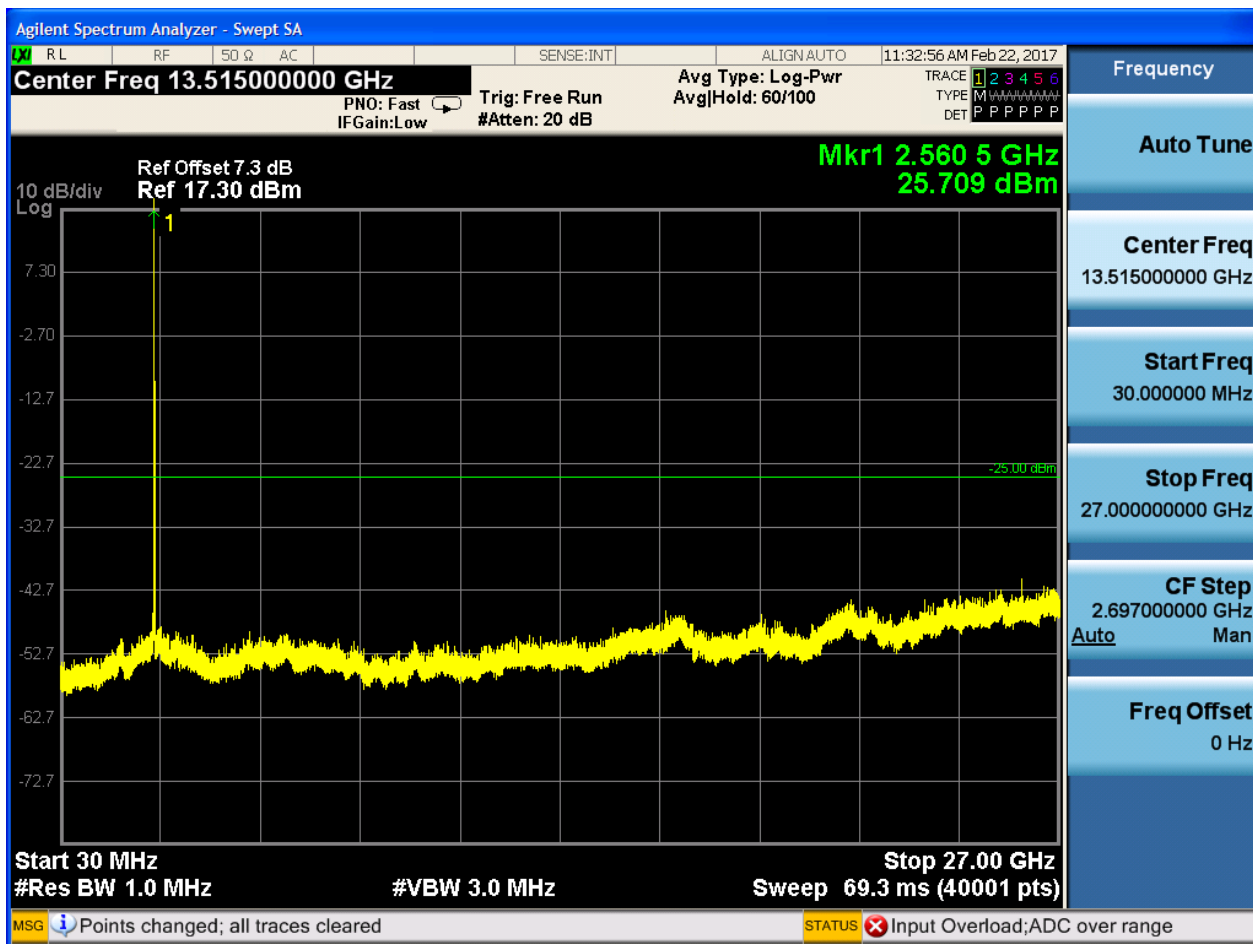


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





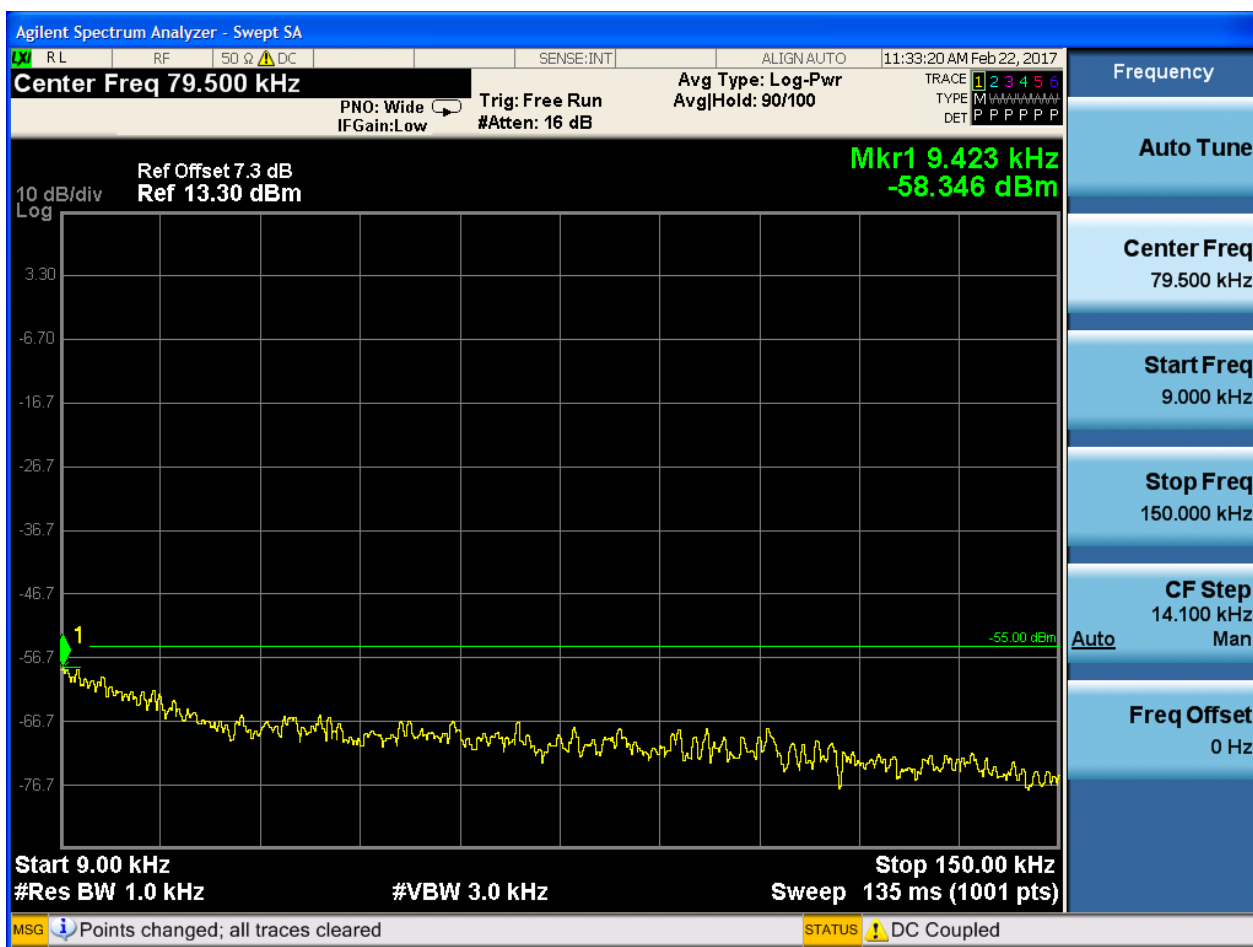




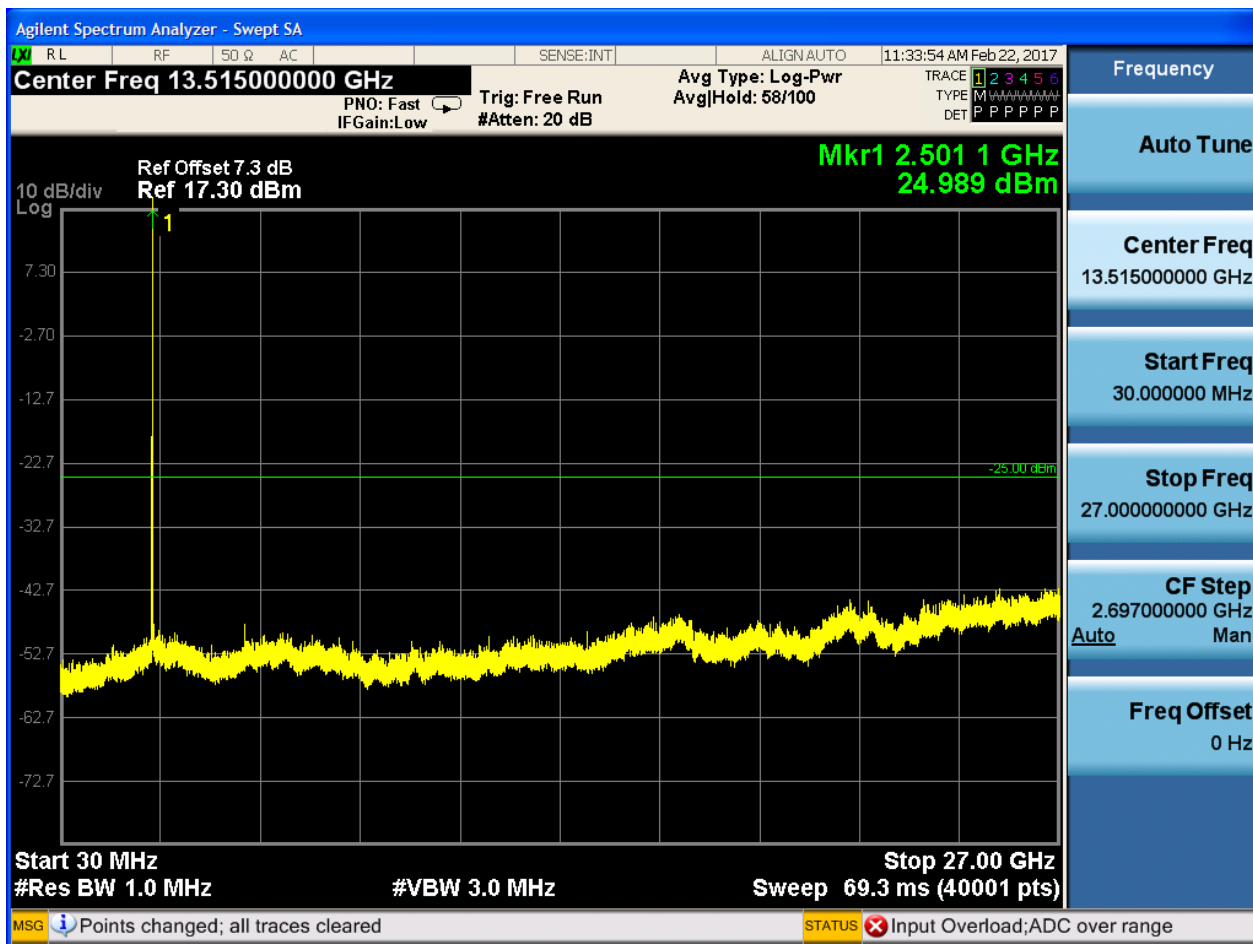
6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



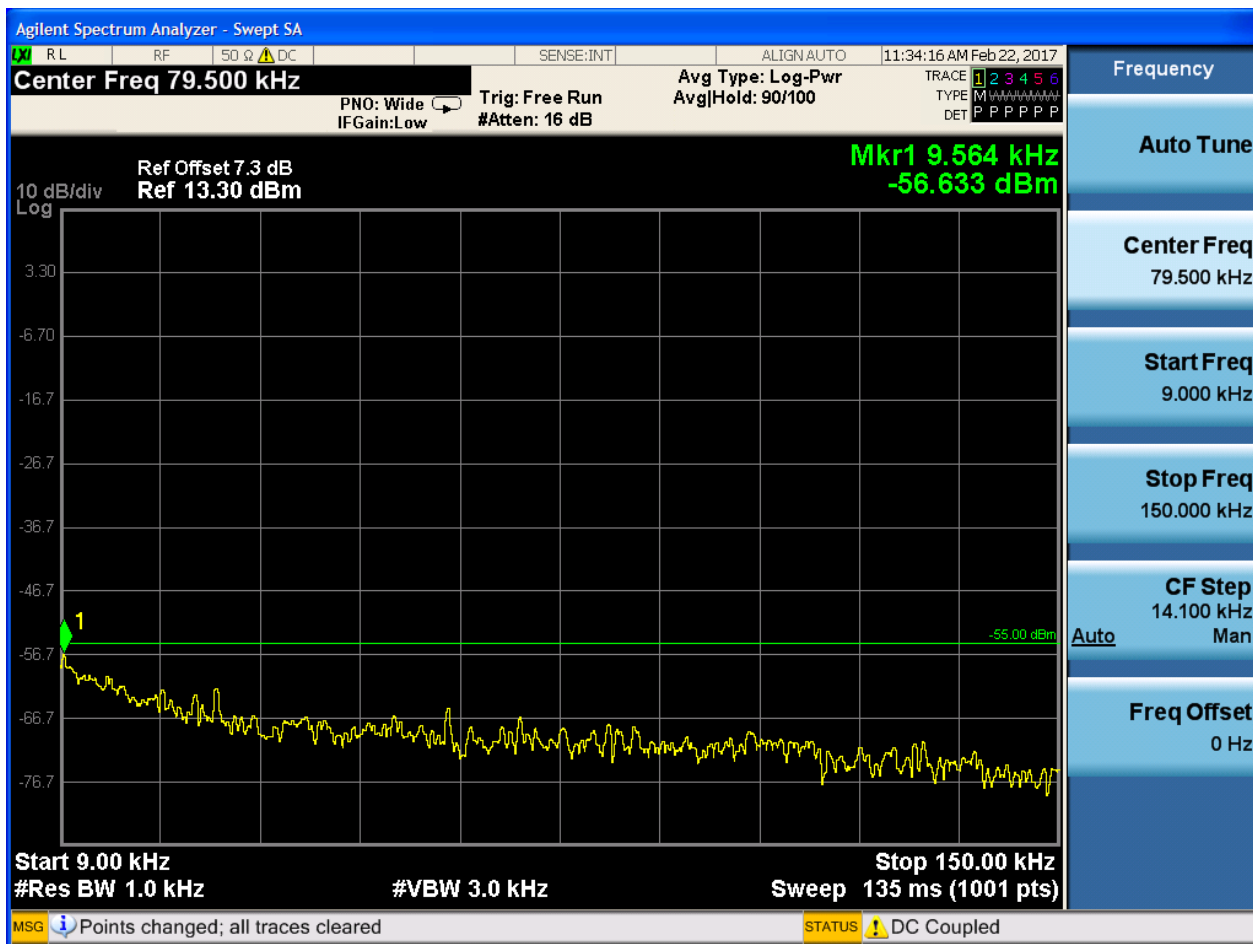


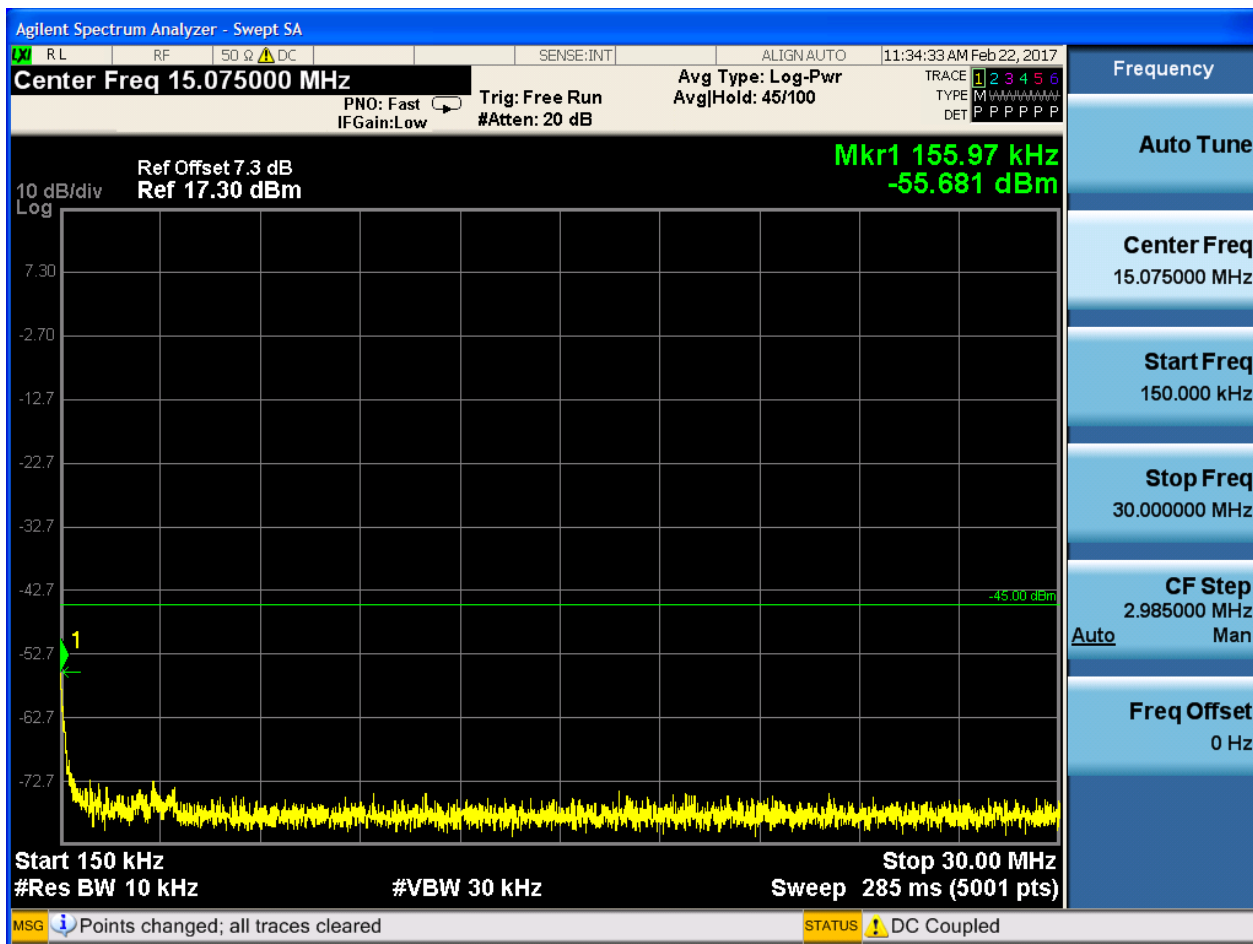




6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



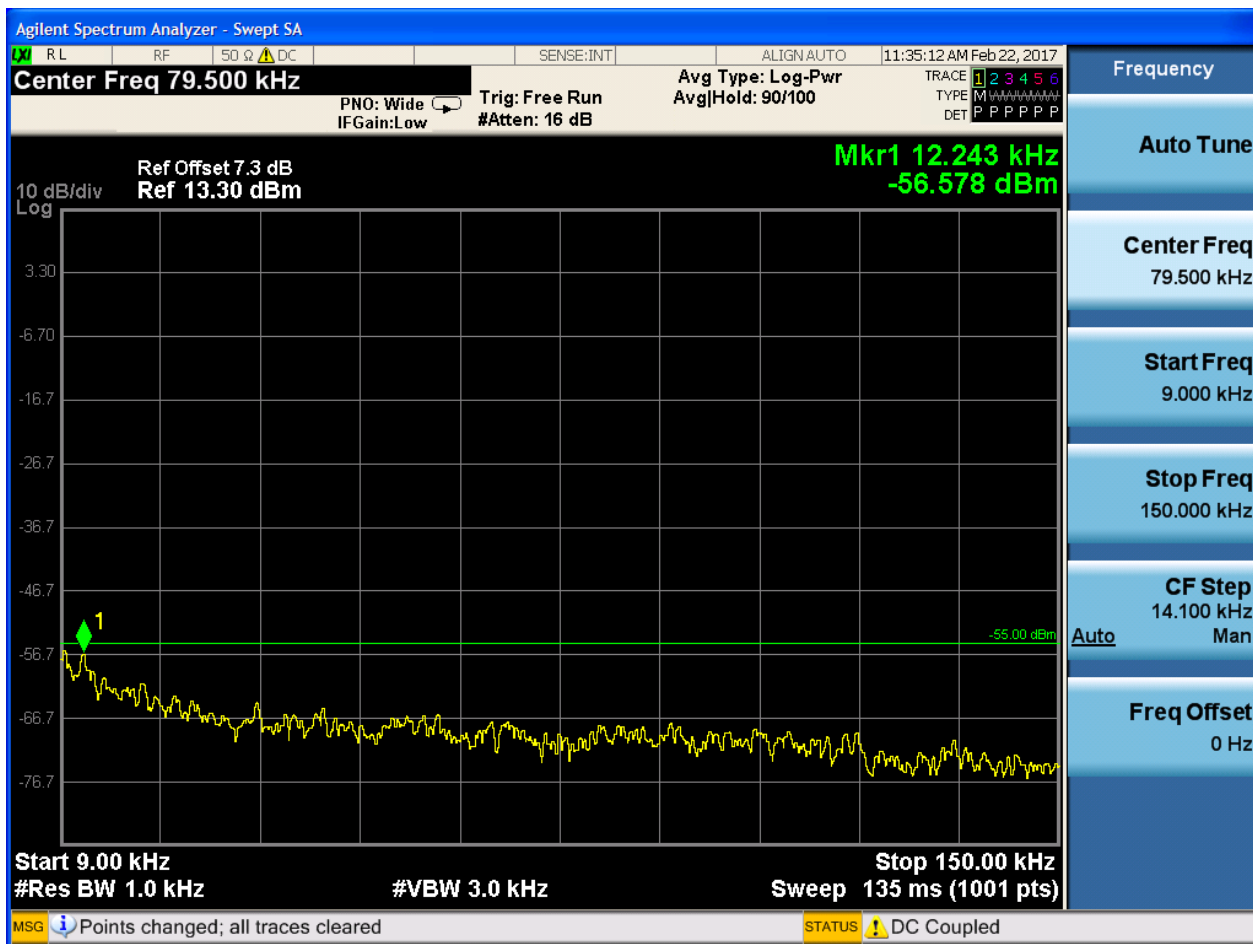


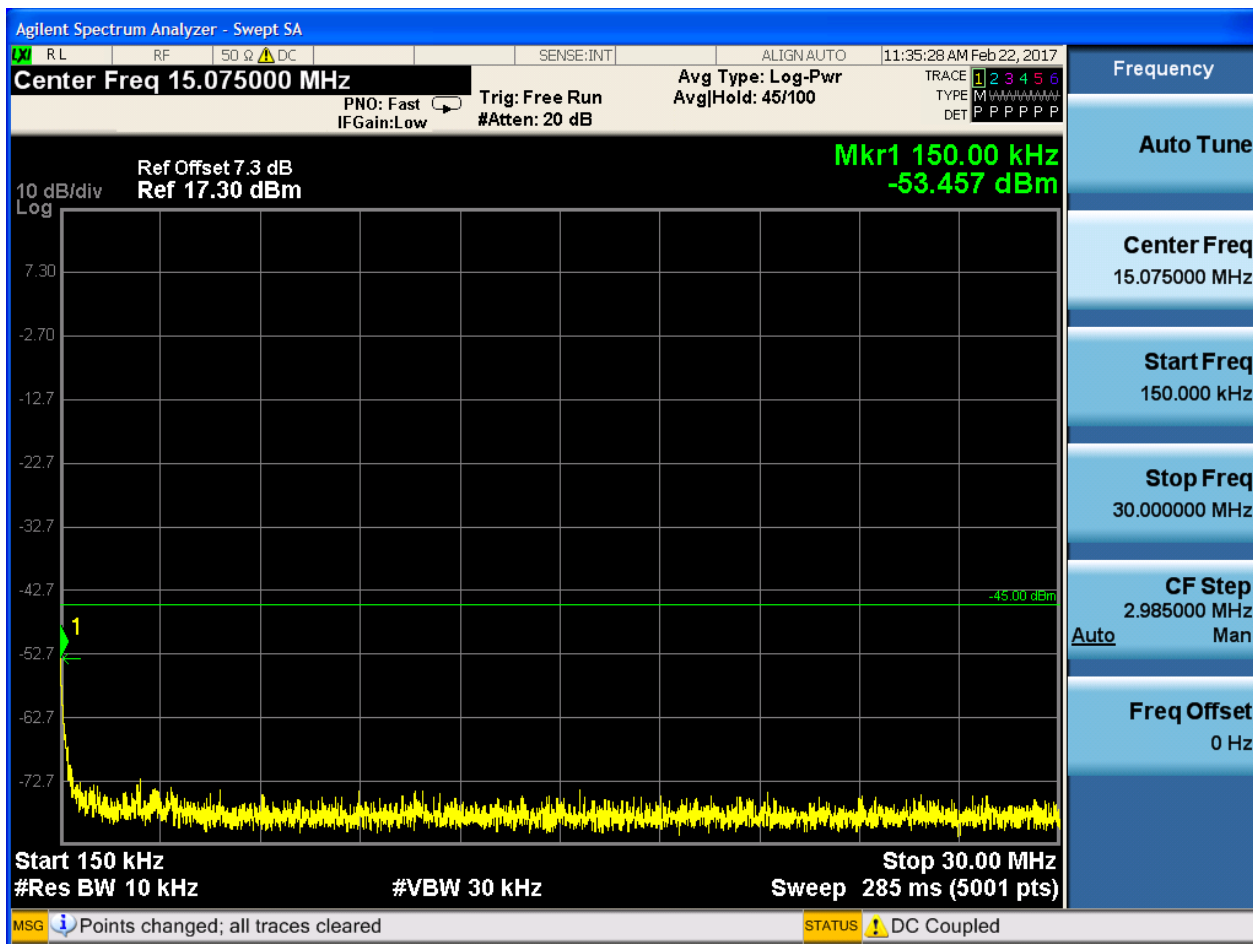


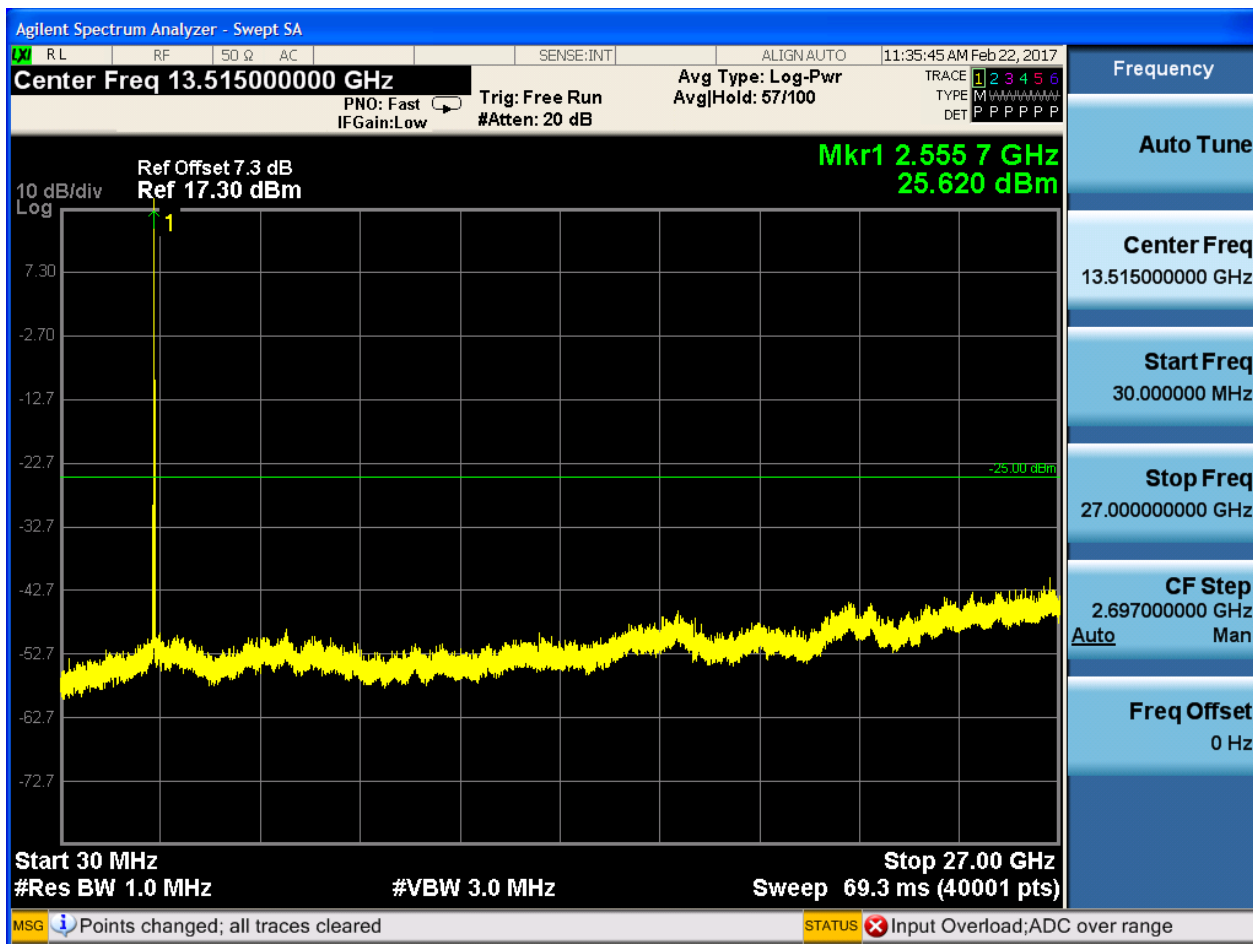


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





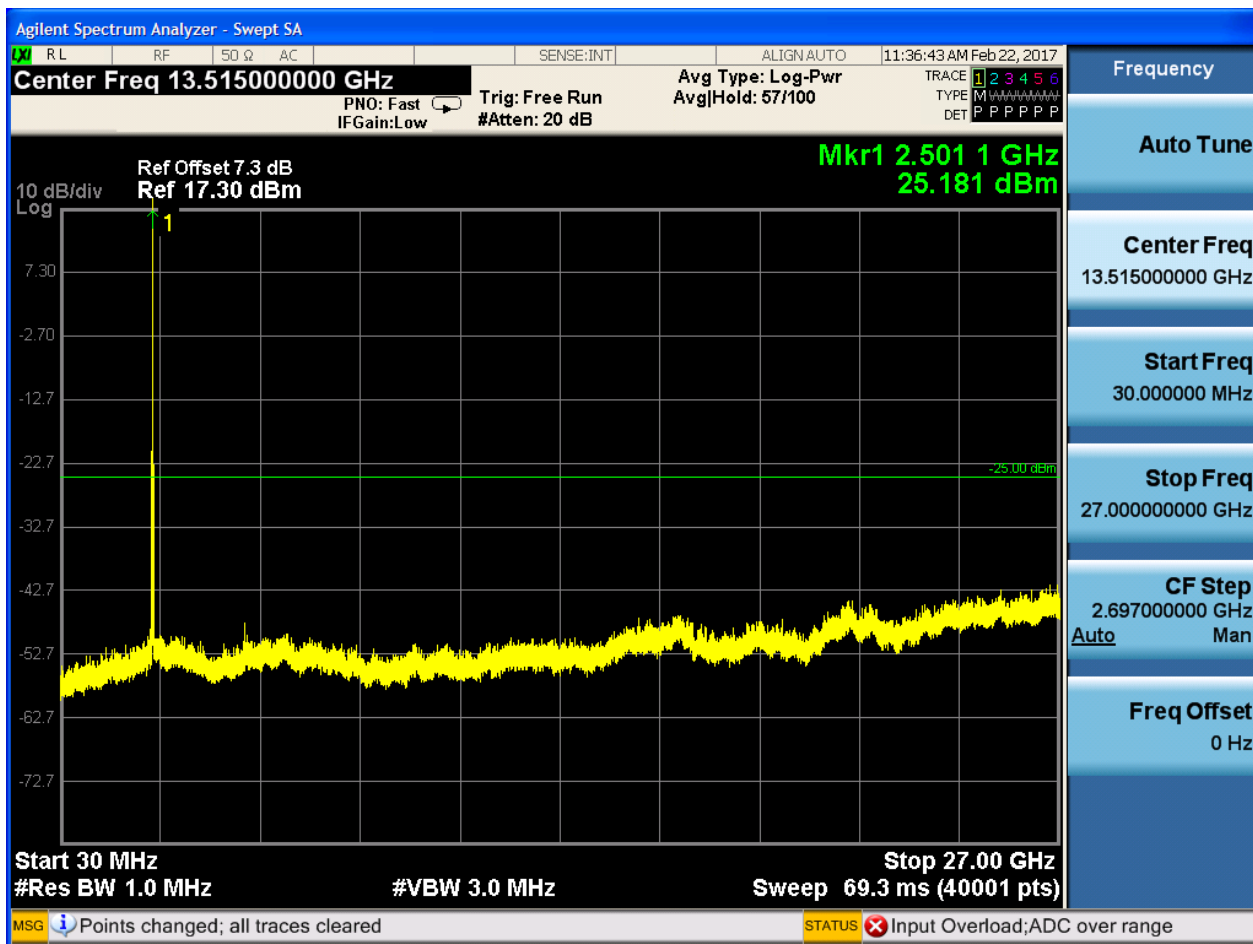




6.1.1.1.4.1.1 Test RB = RB1#0



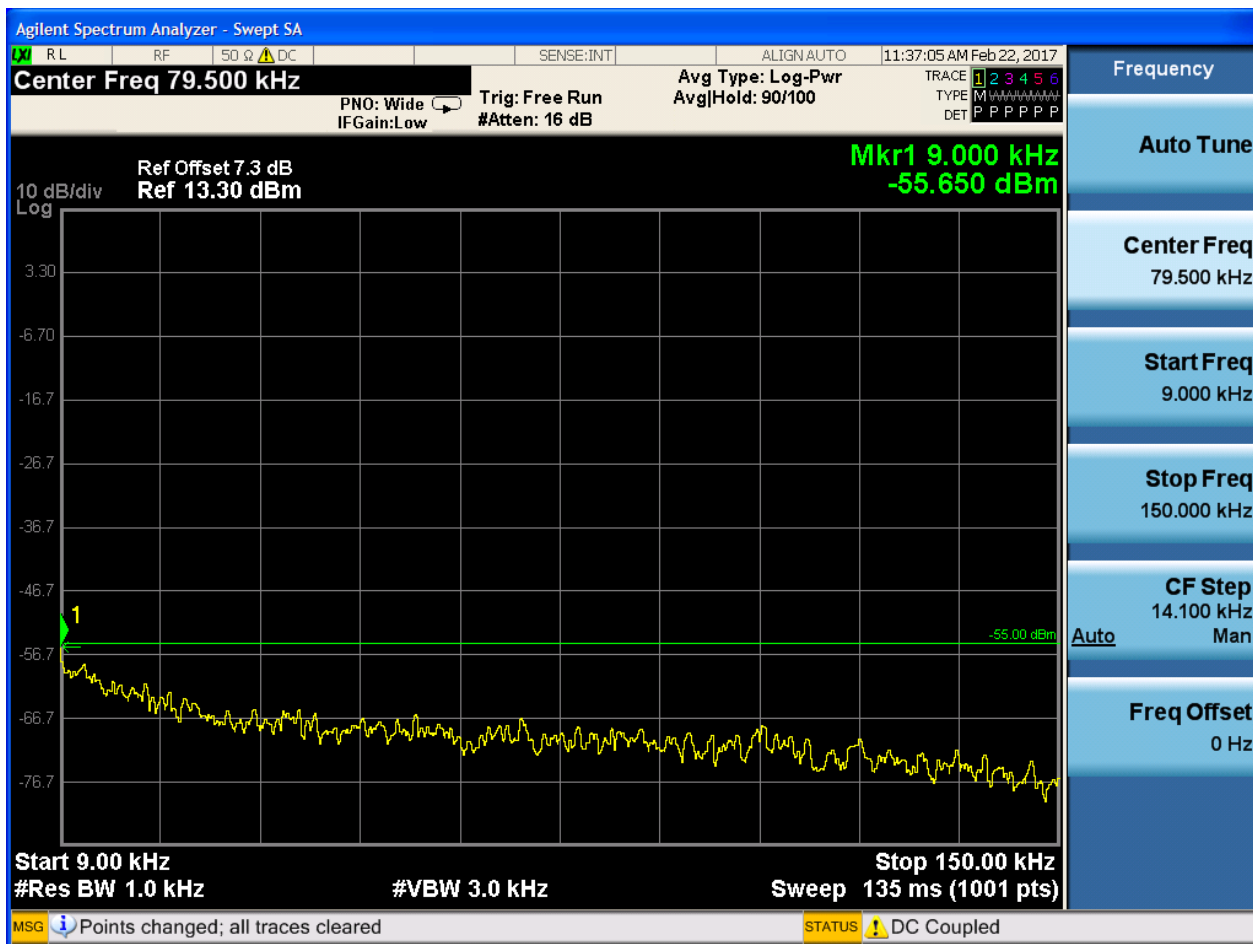






6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



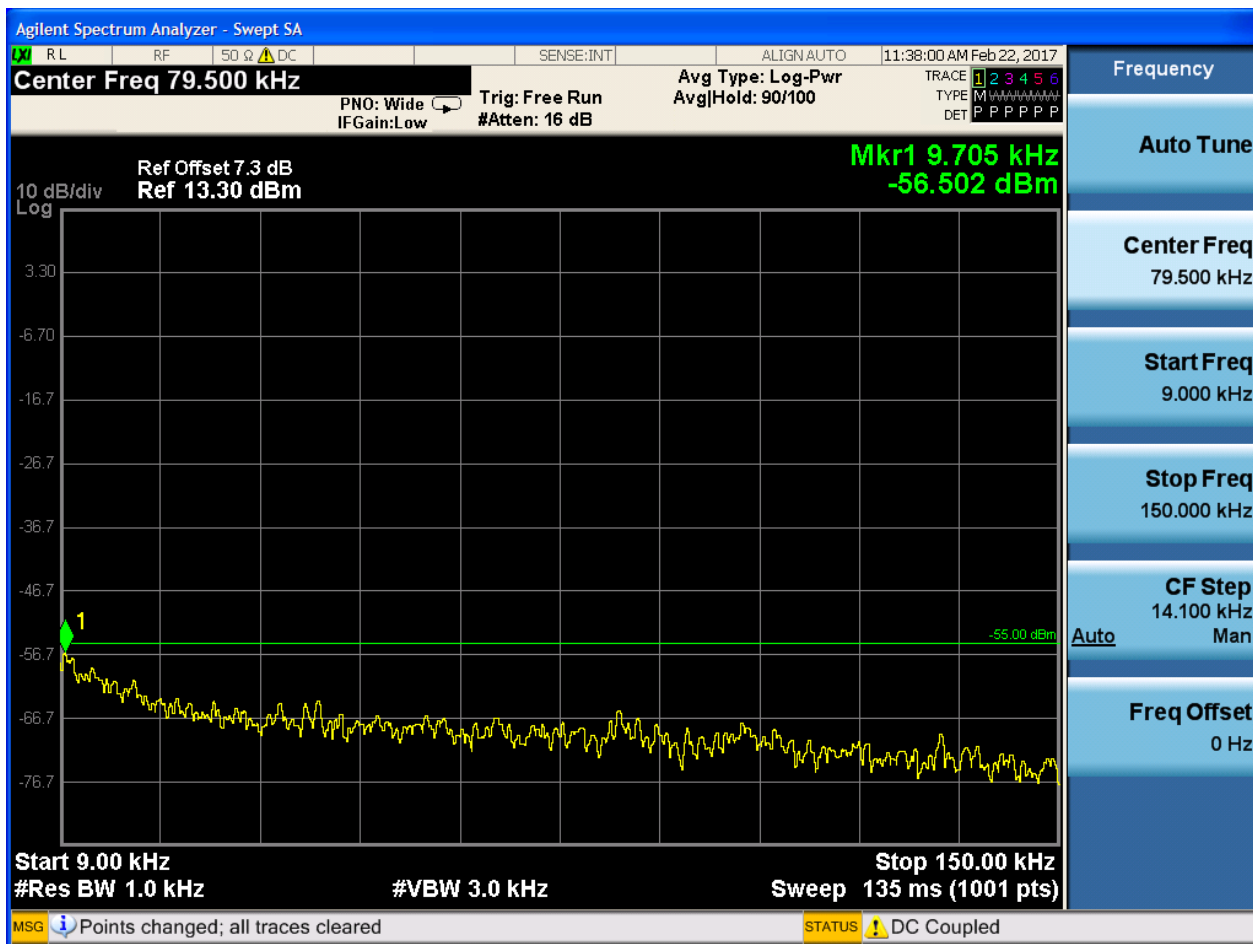




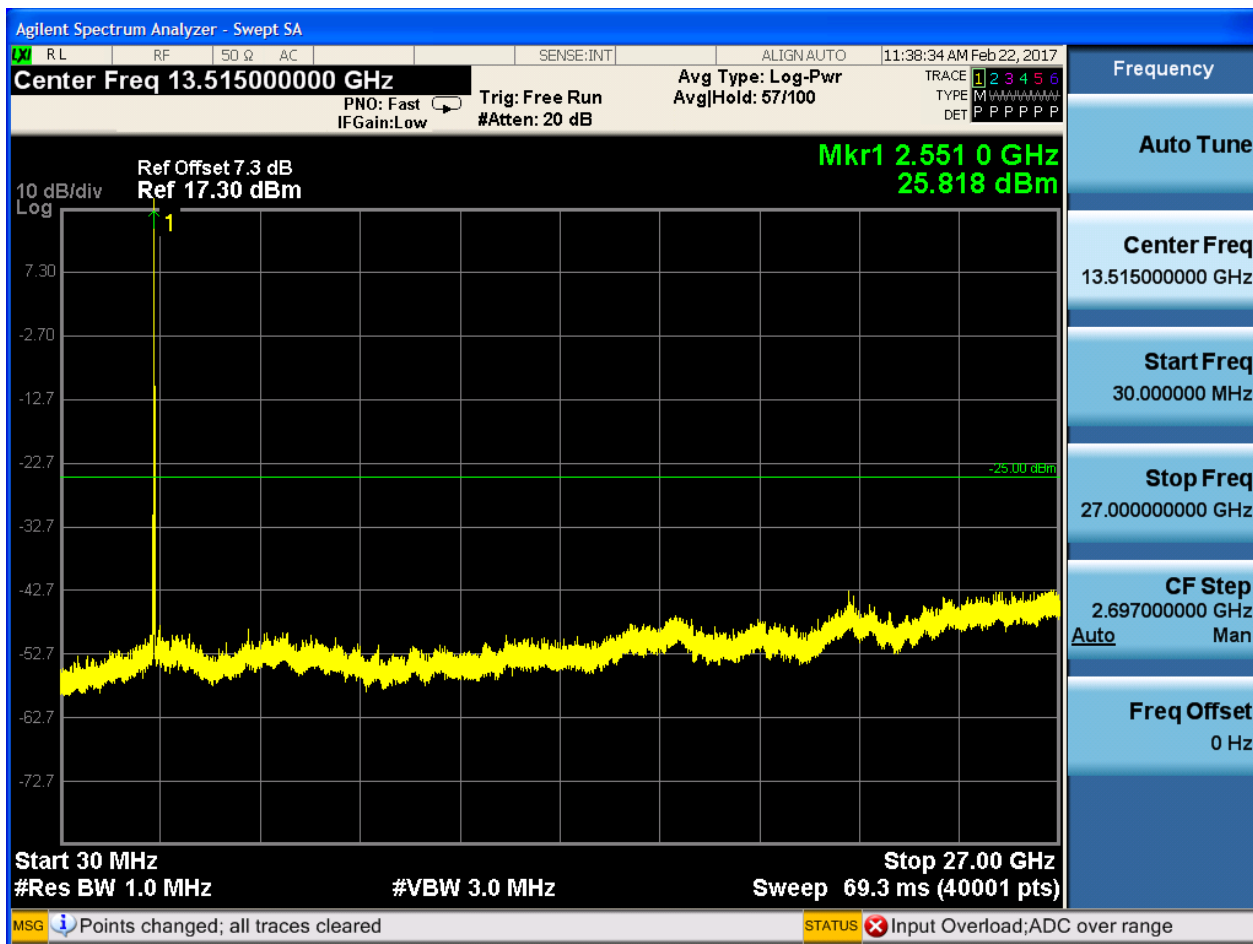


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0





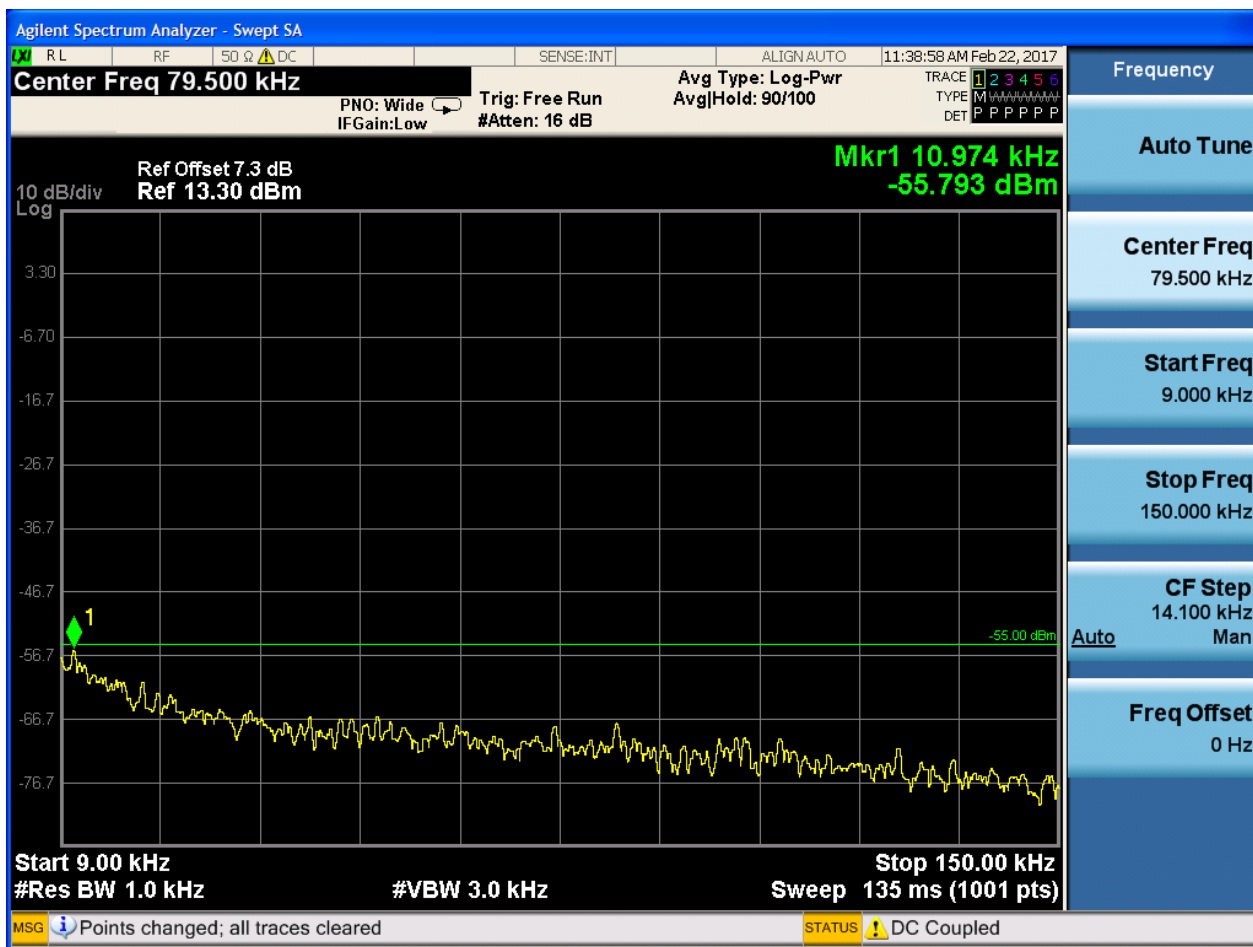


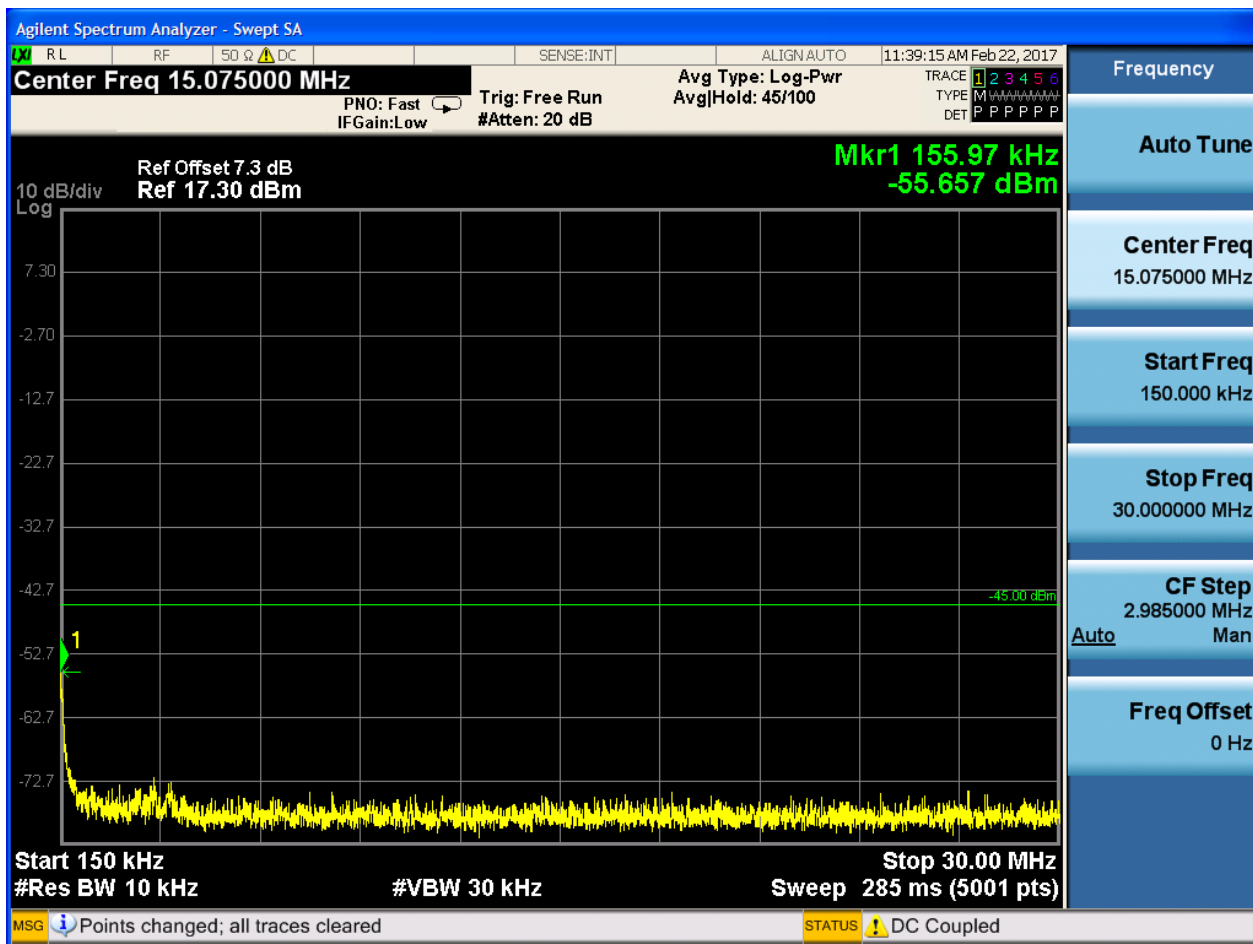
6.1.1.2 Test Mode = LTE/TM2

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



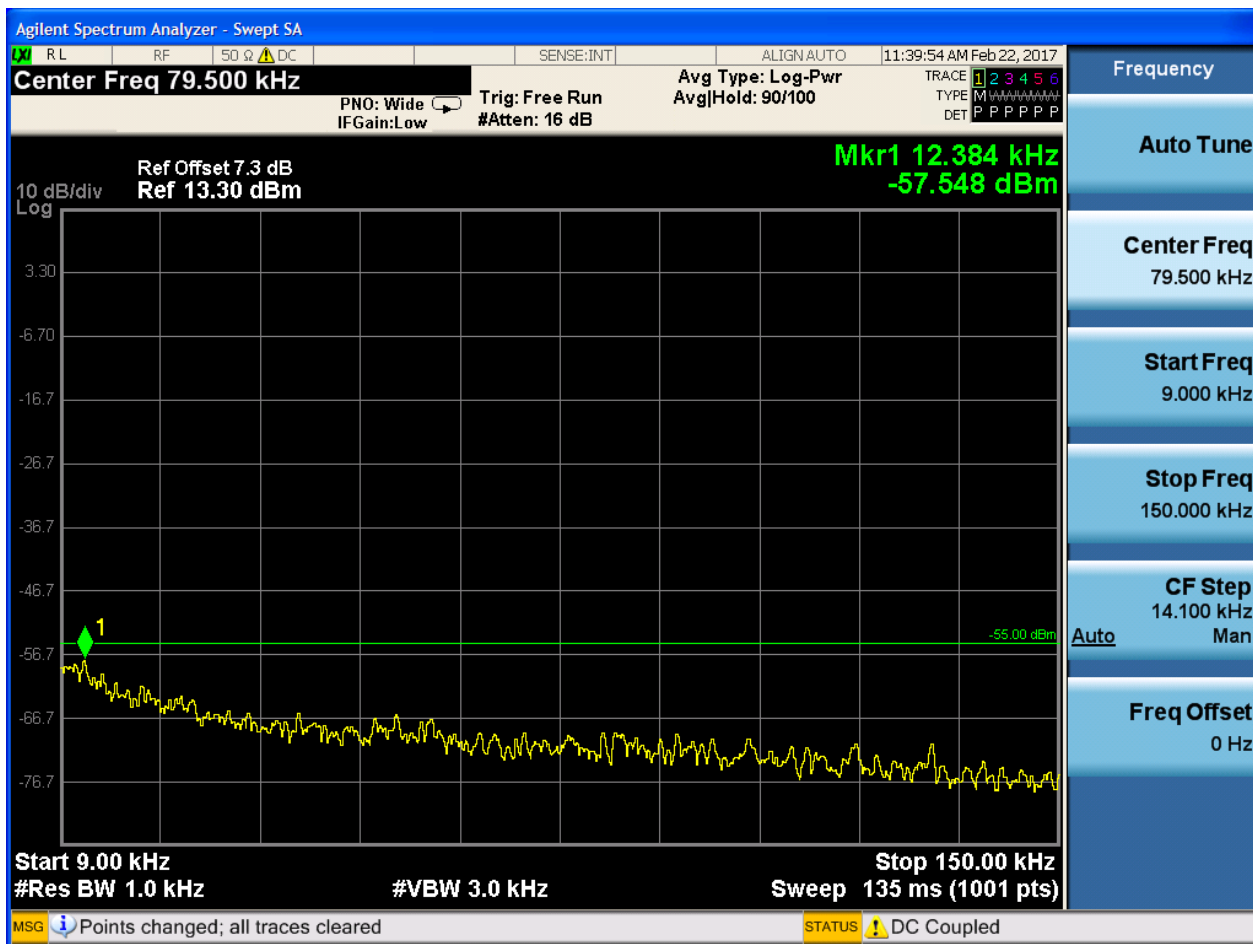




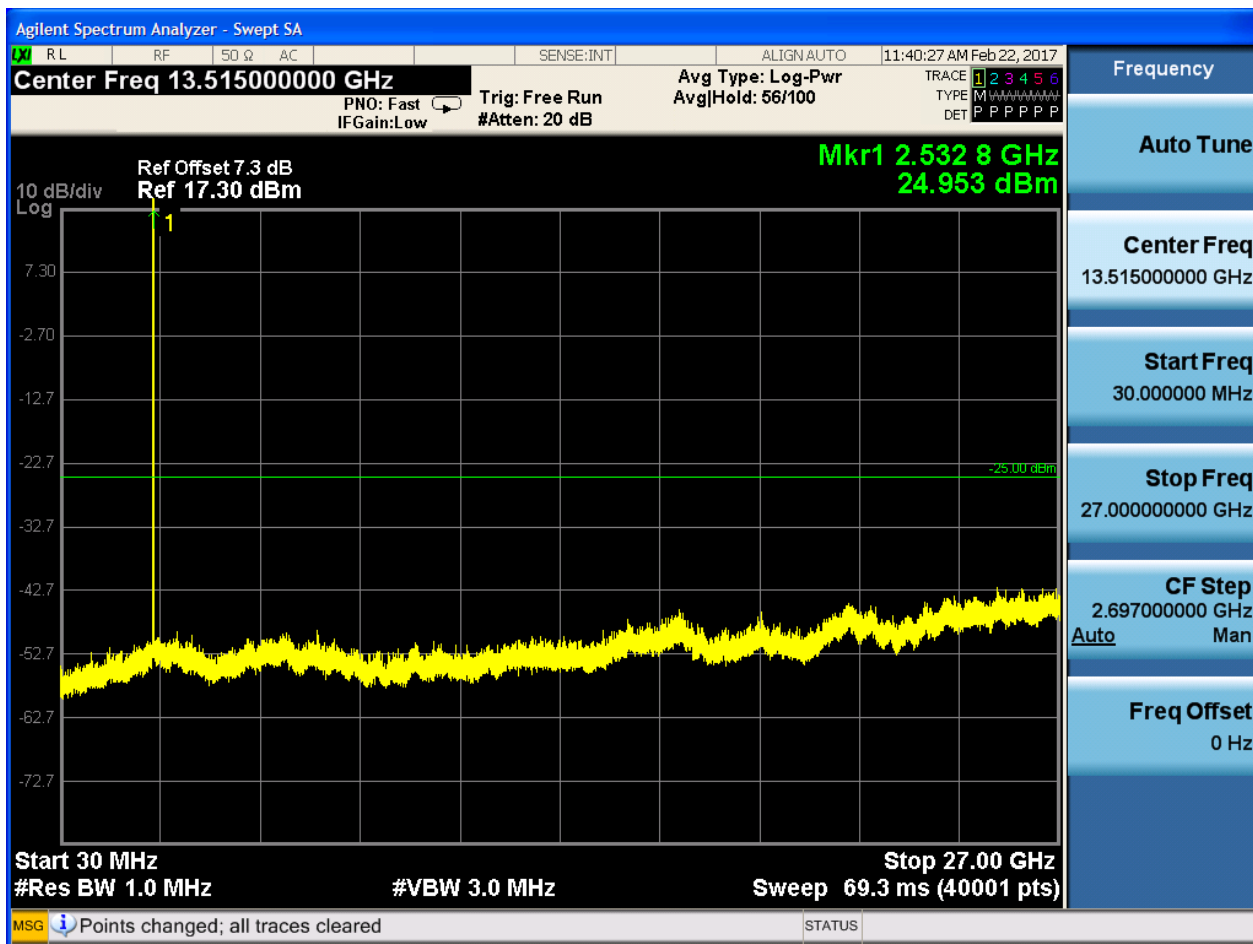


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



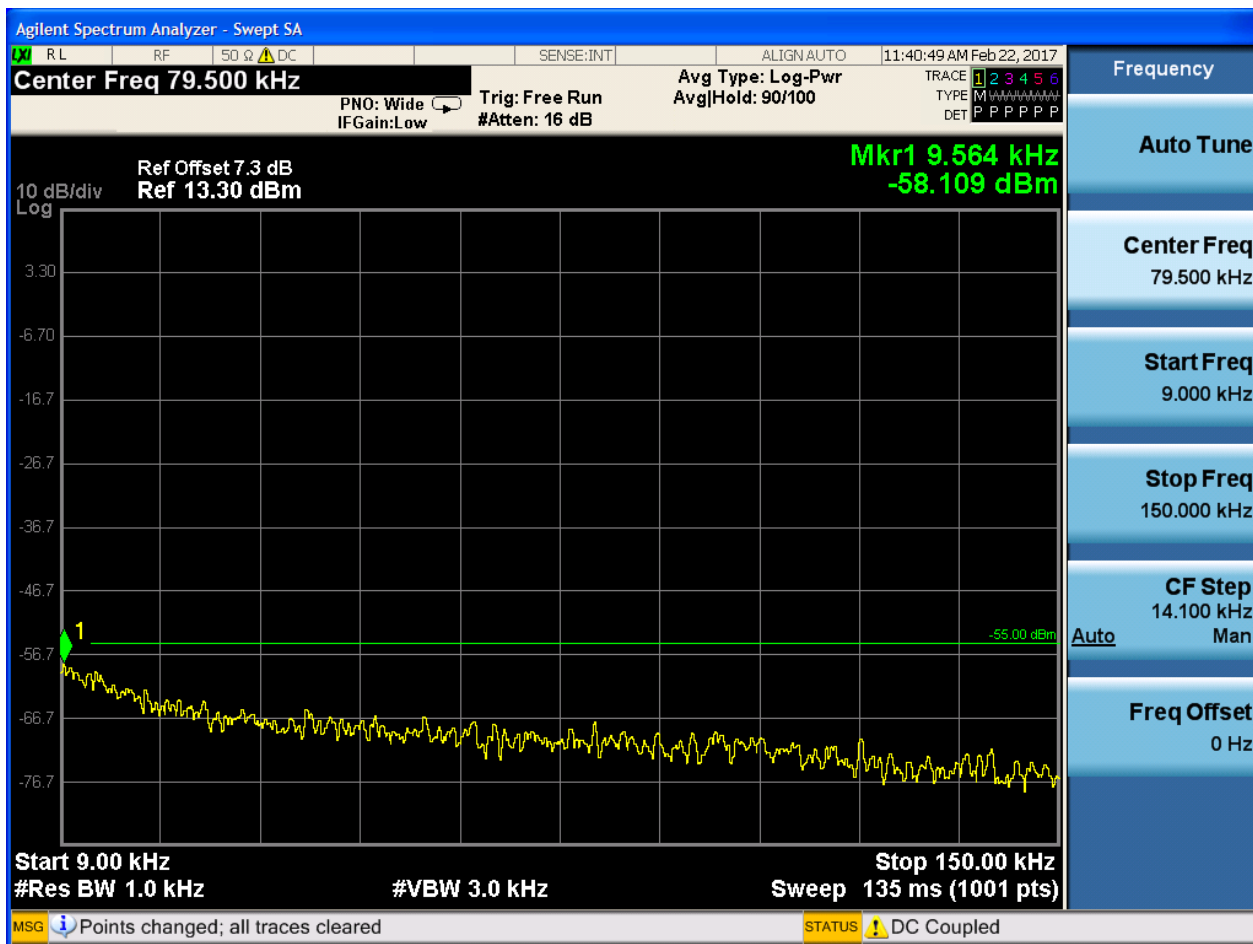


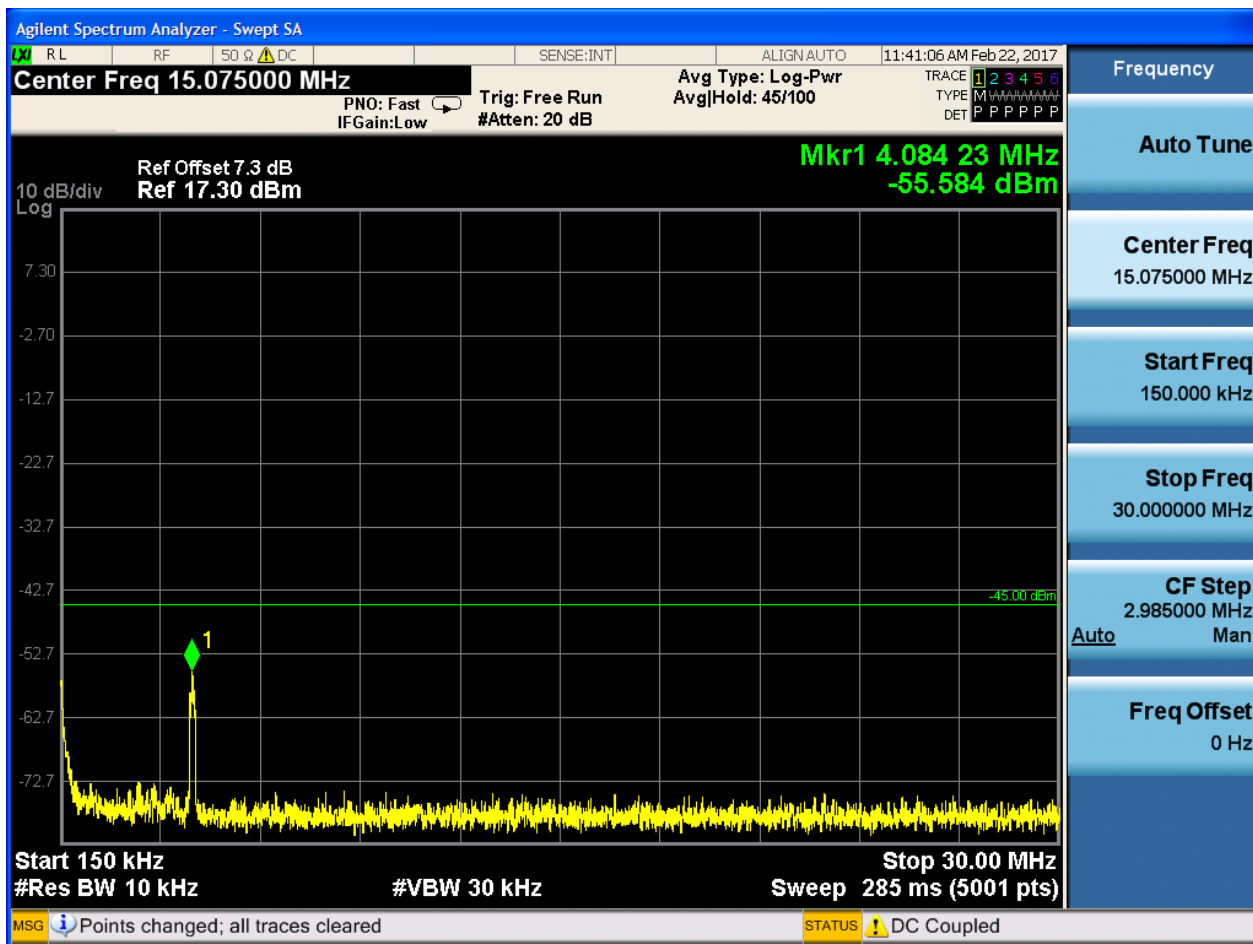


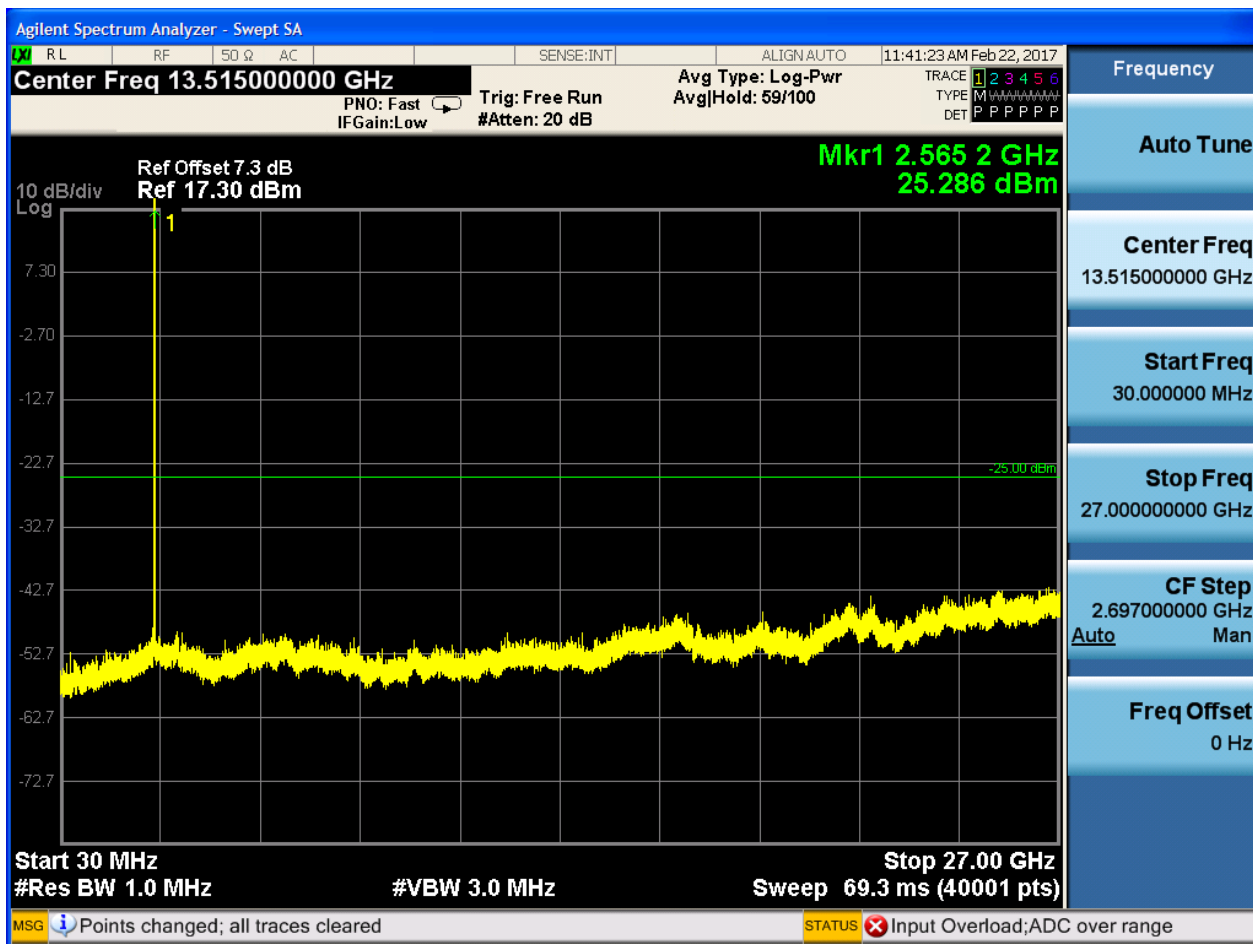


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





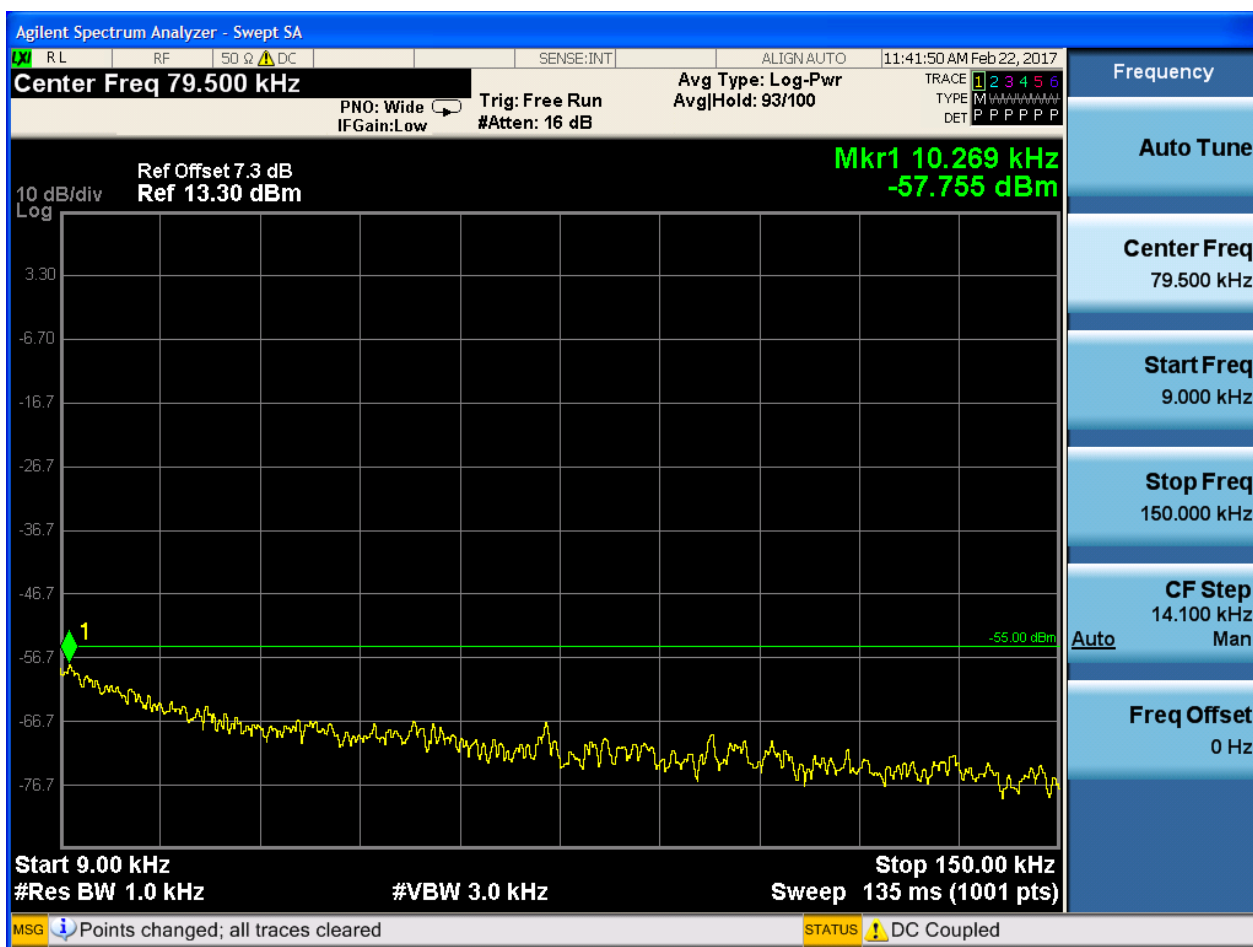




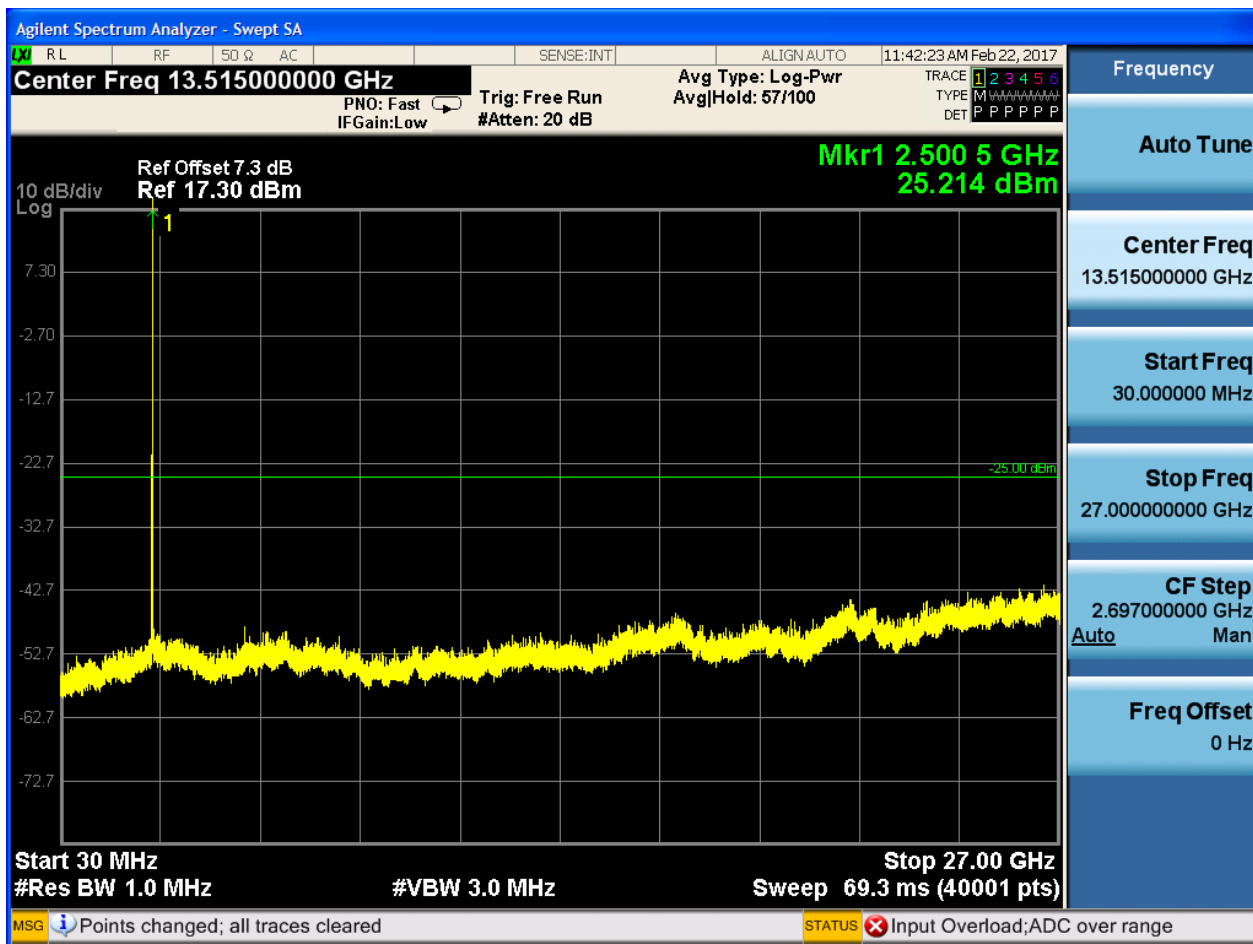
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



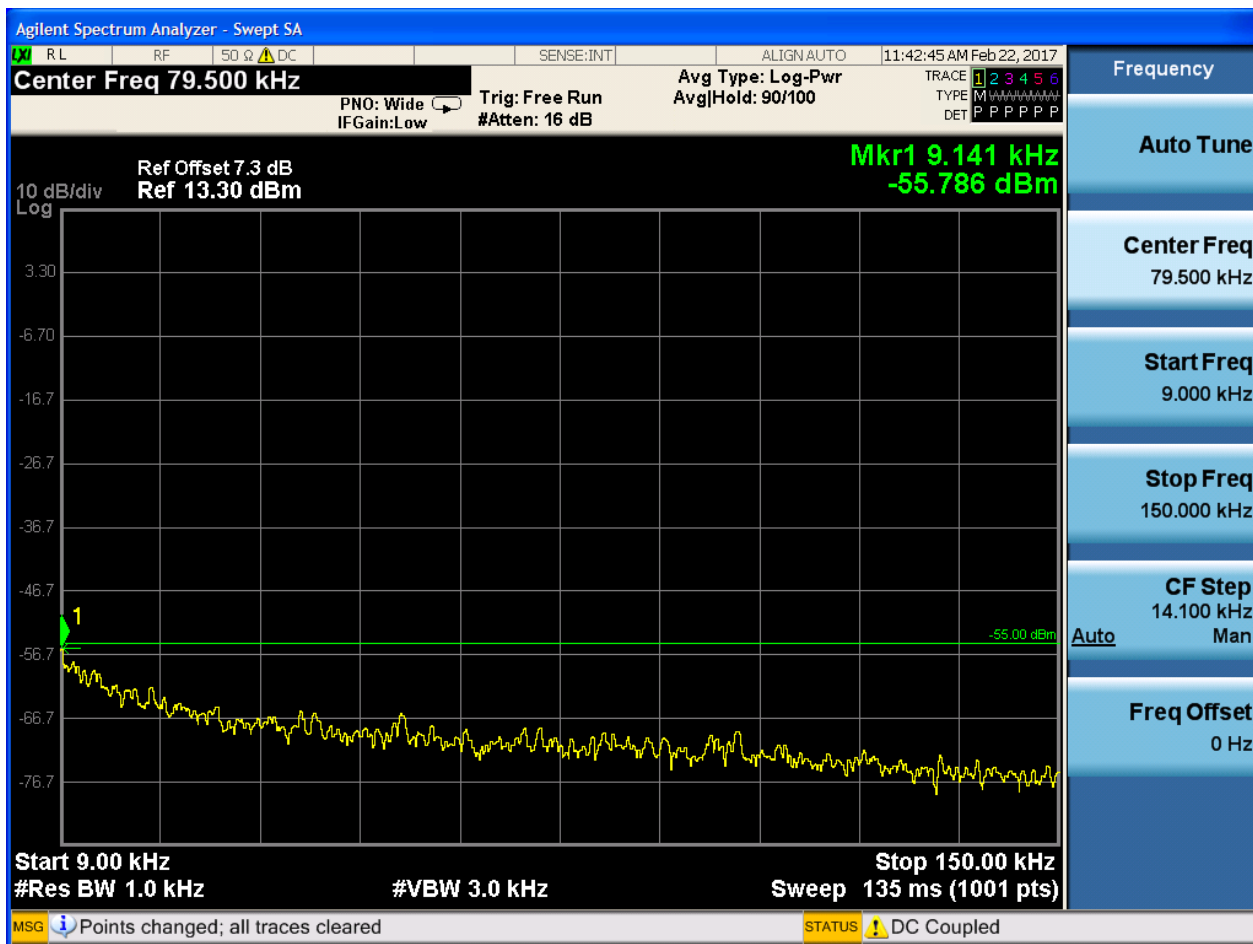




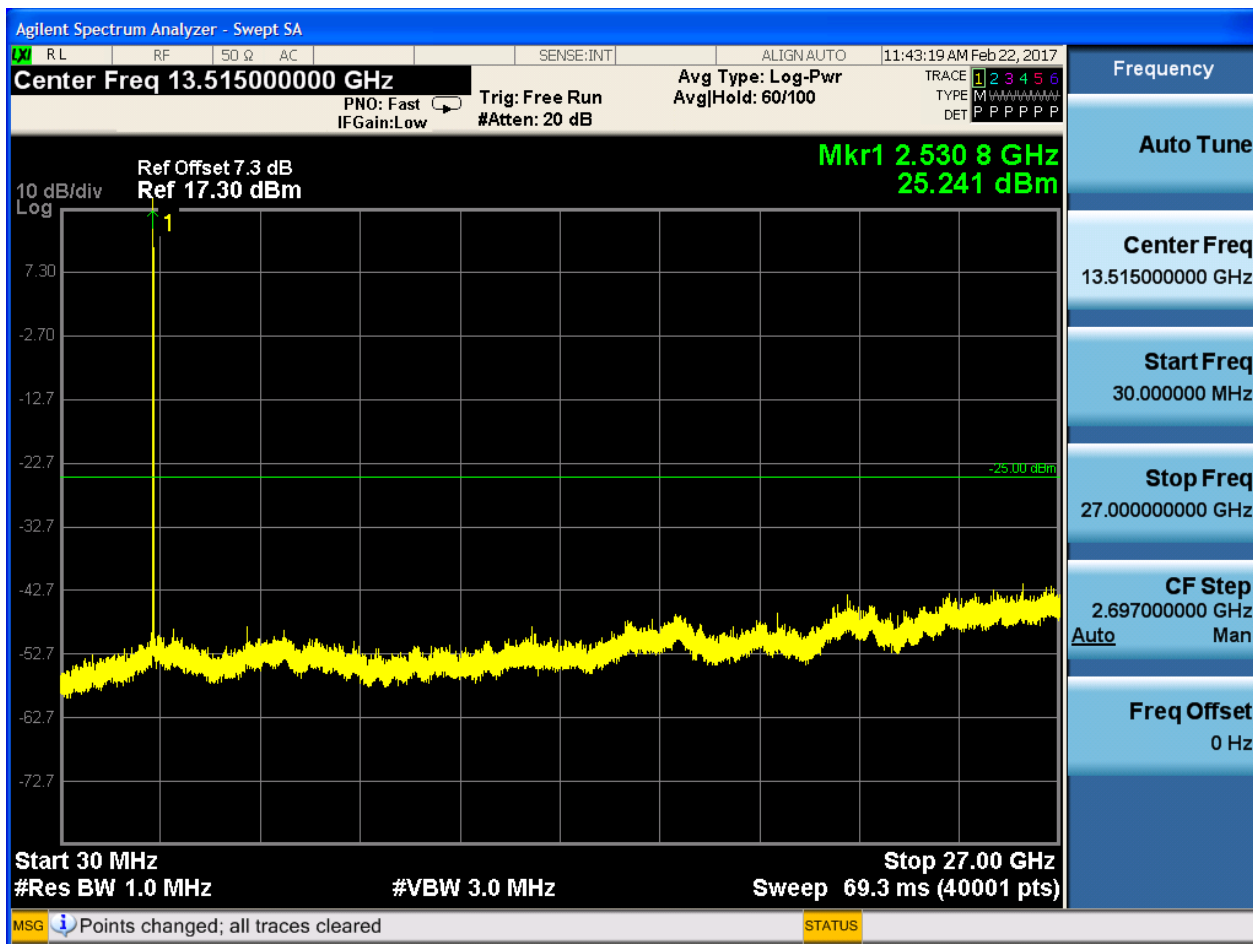


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



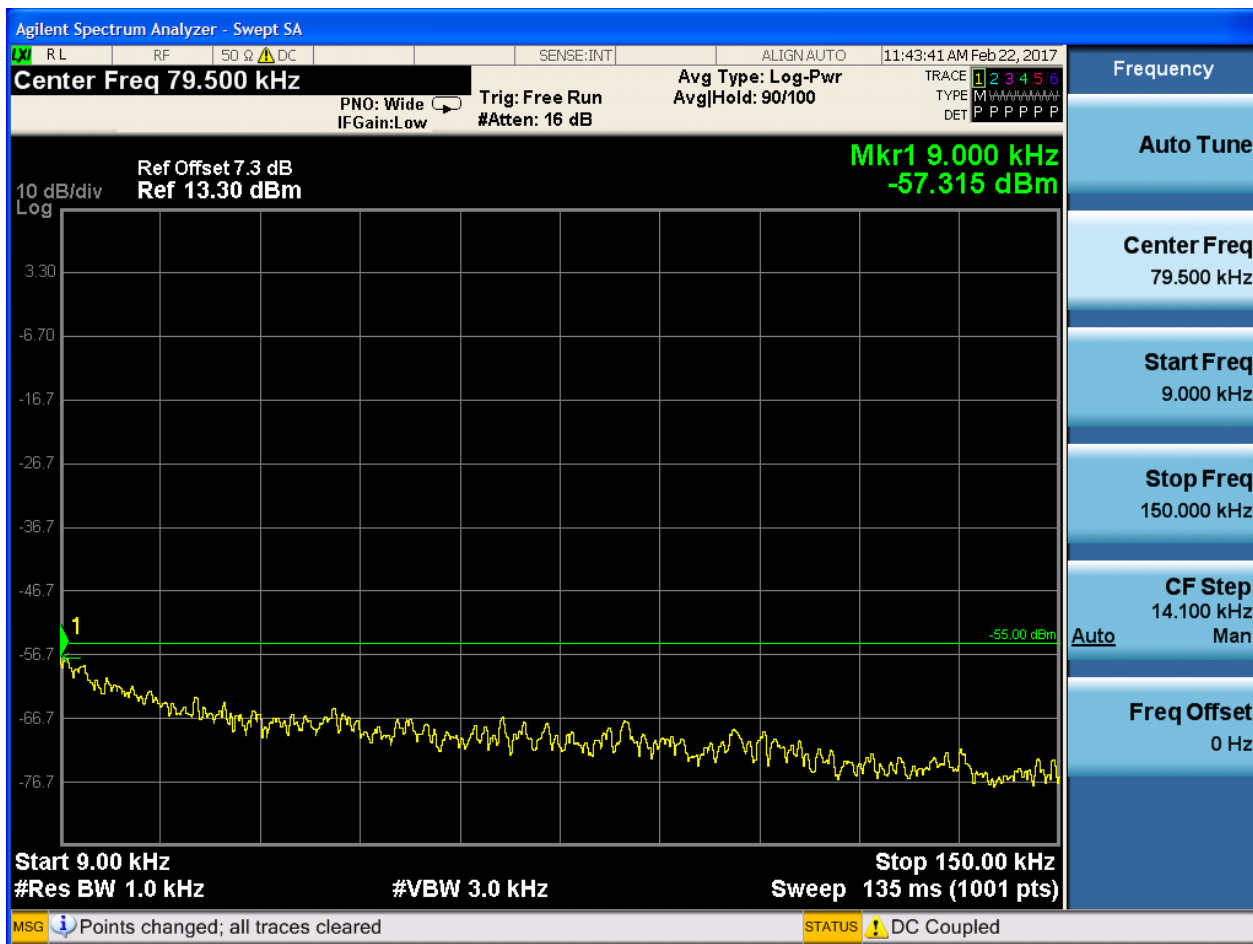


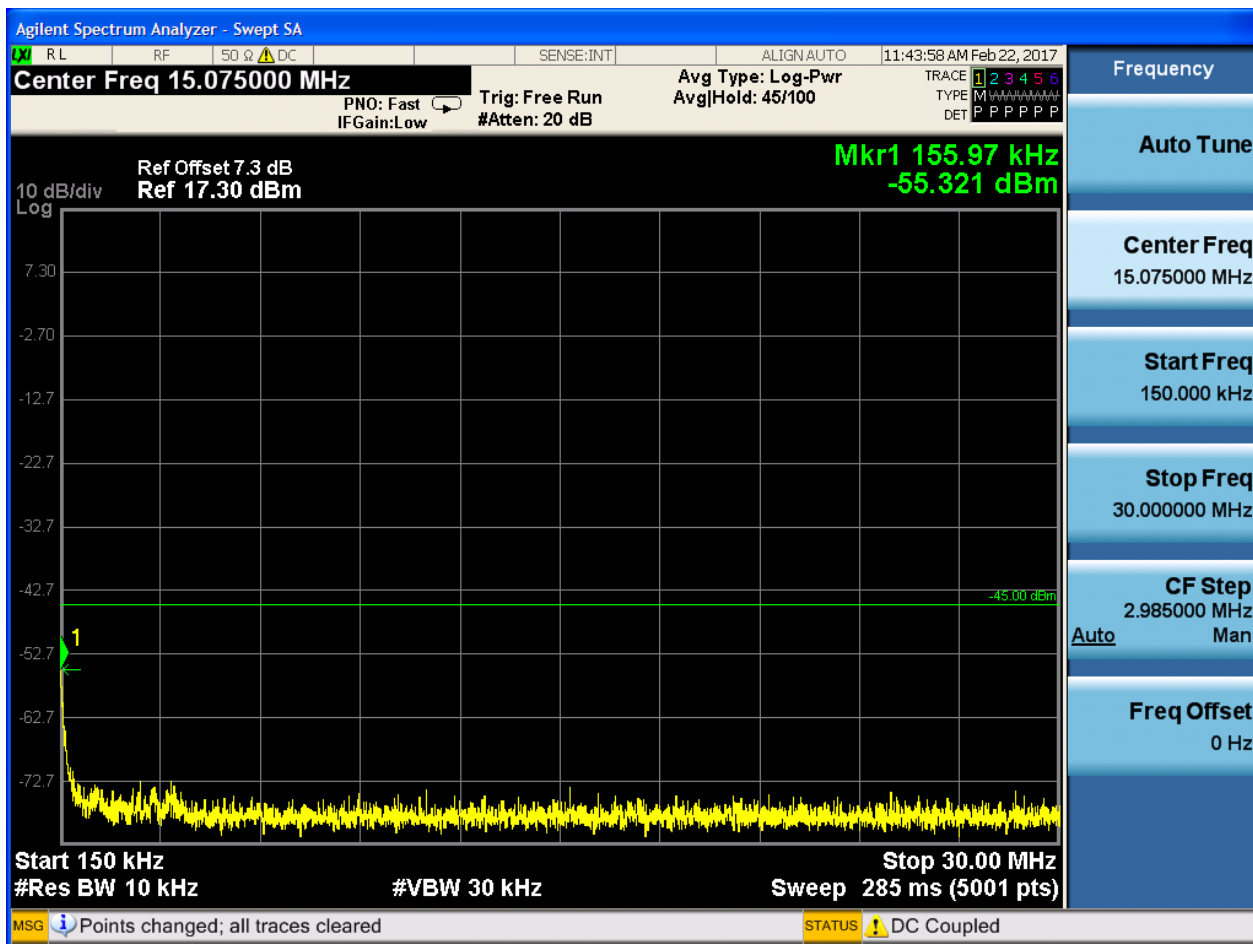


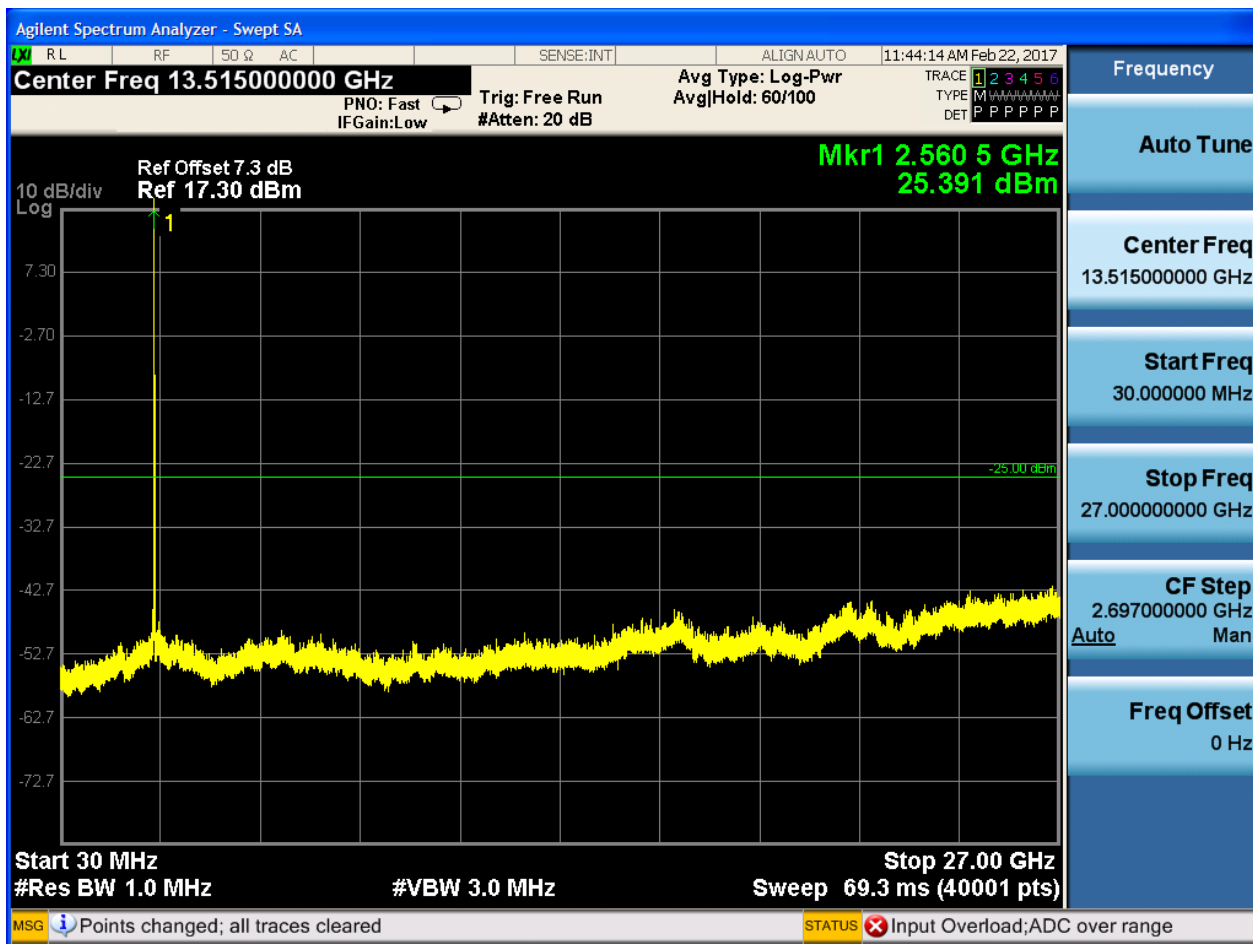


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



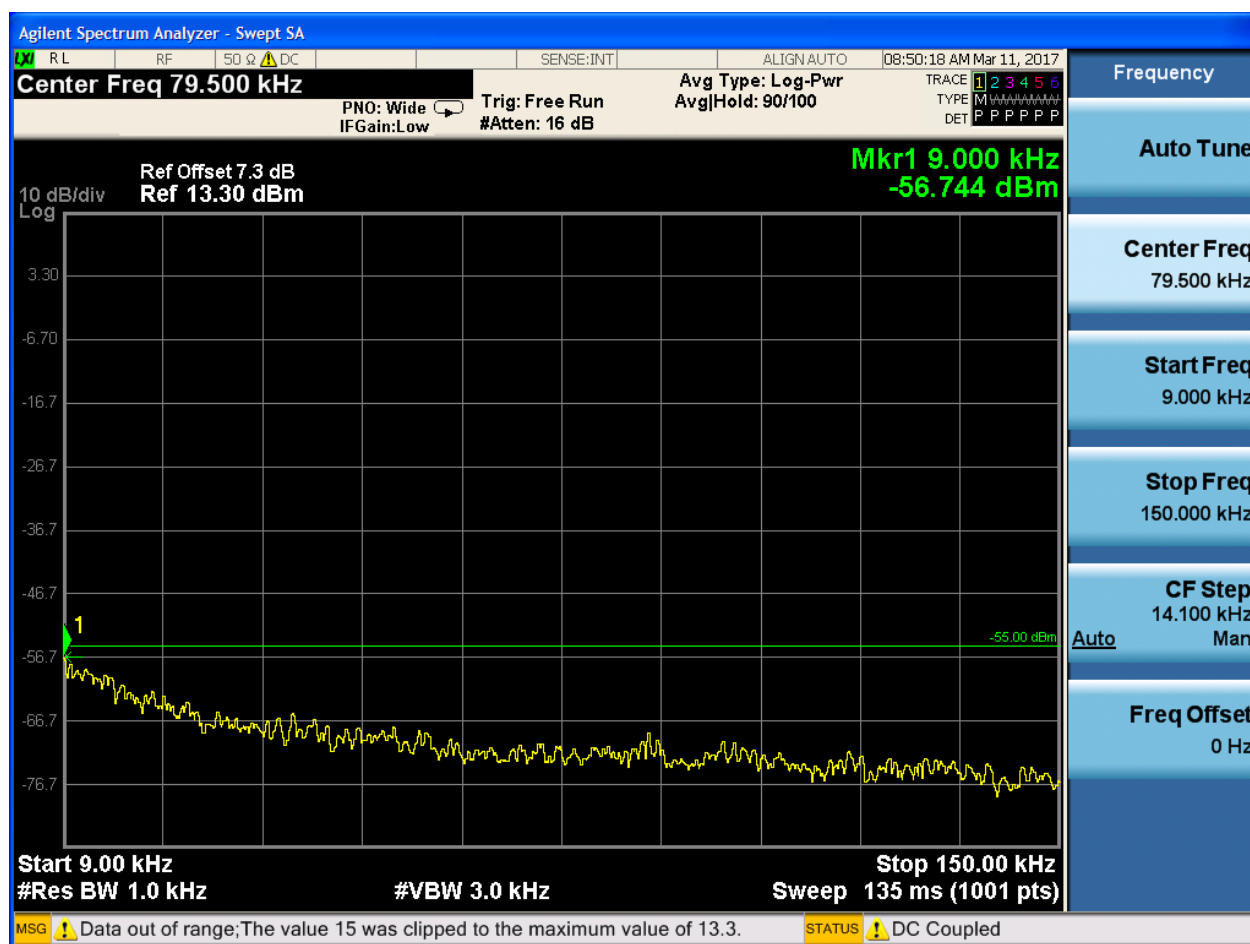




6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



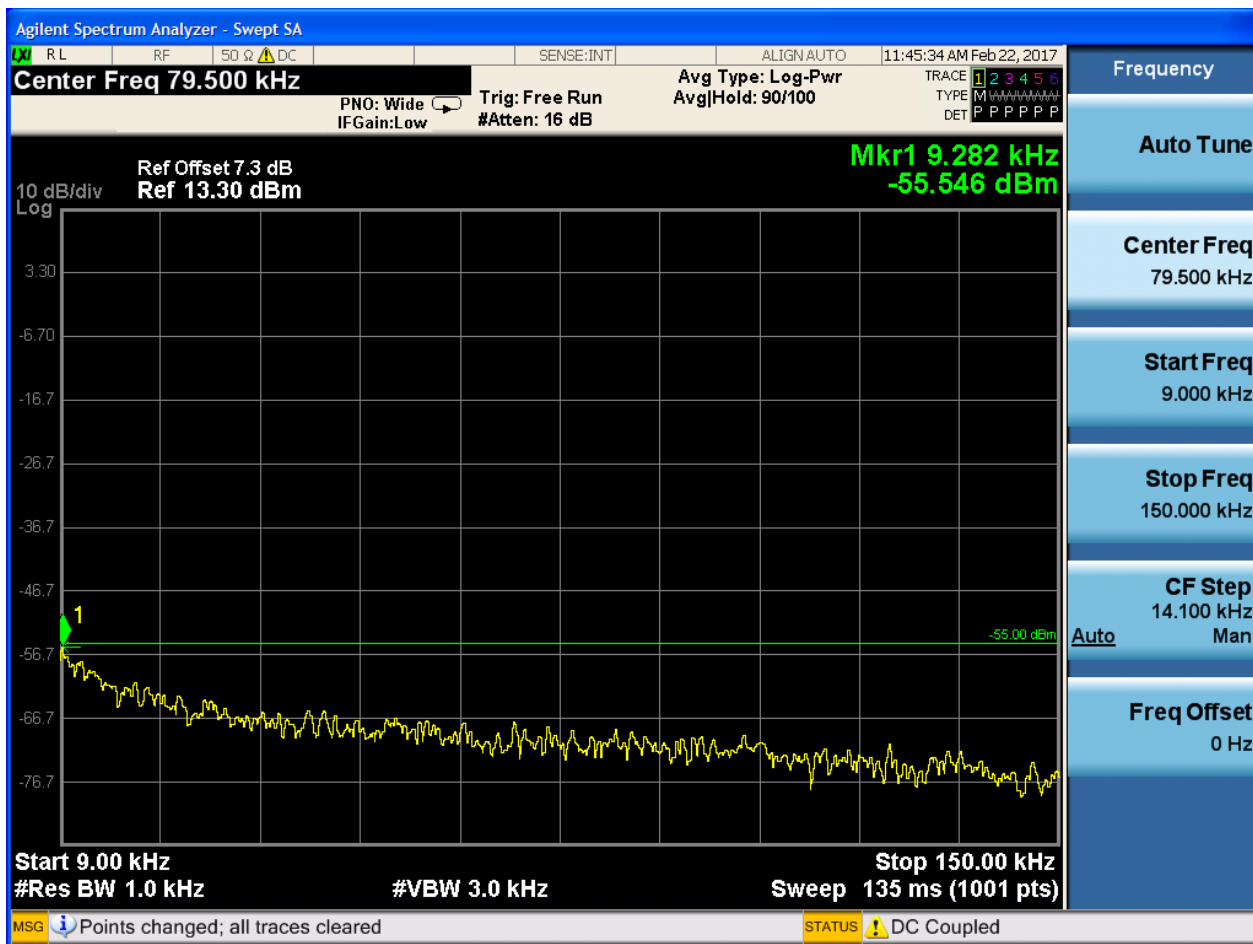






6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



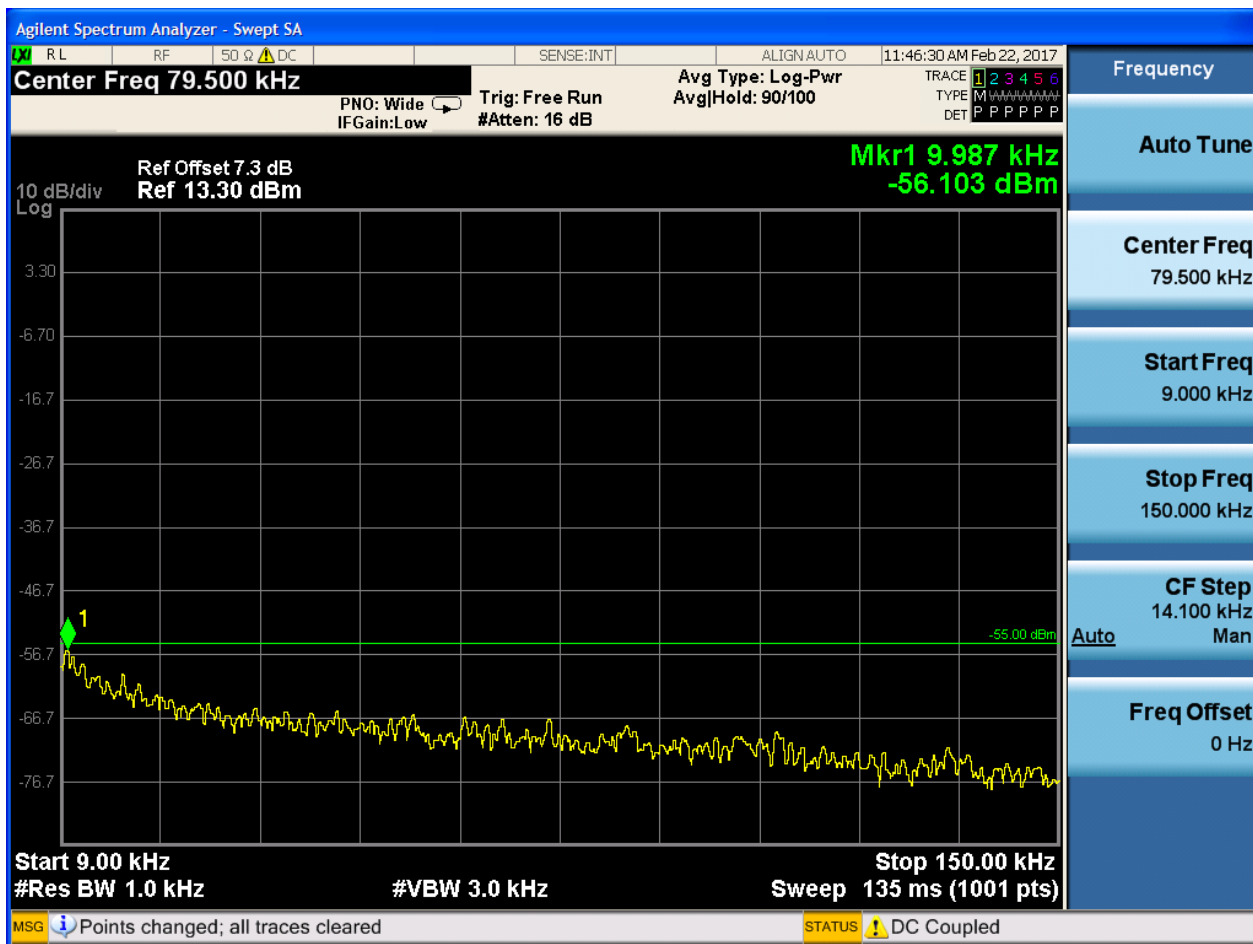




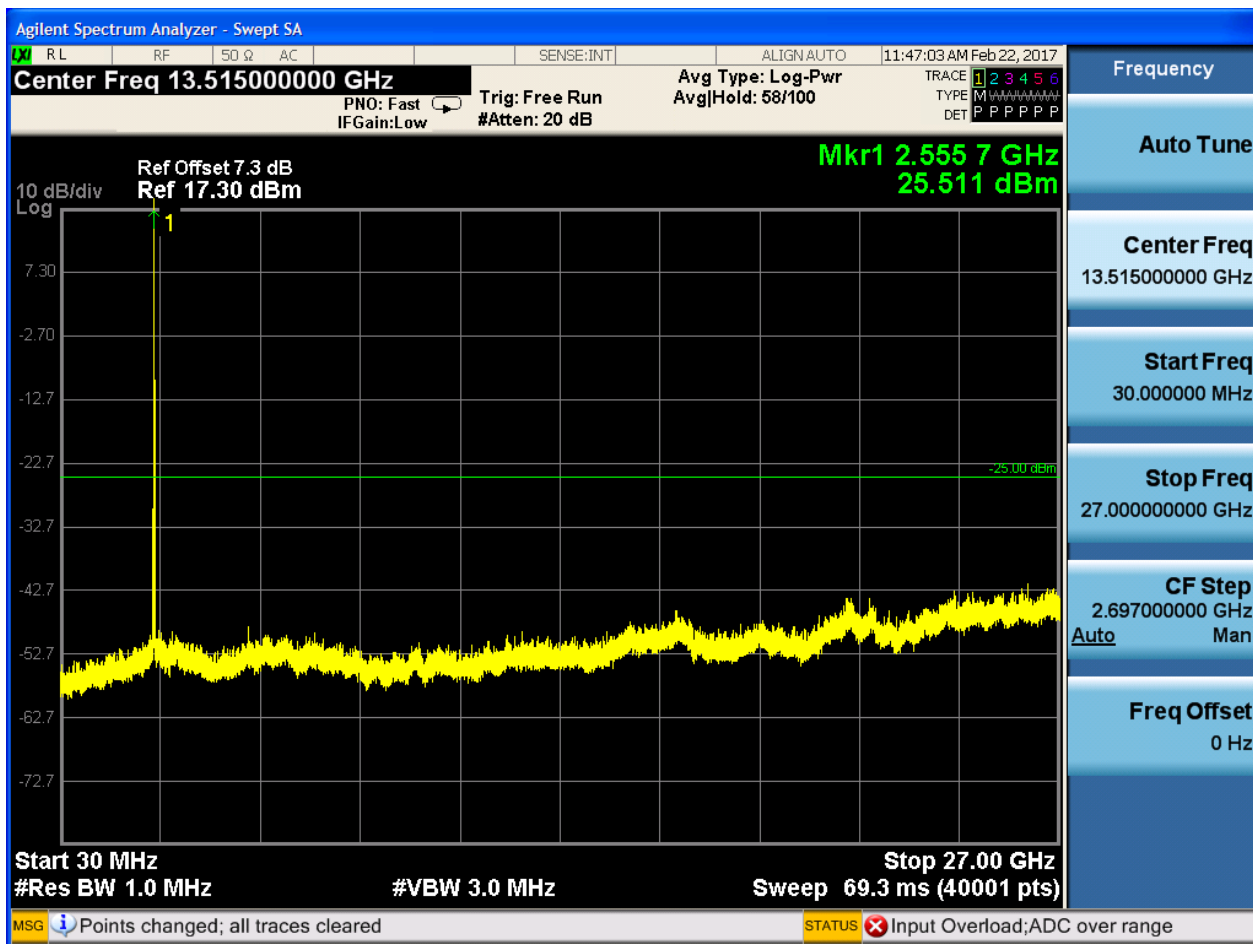


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





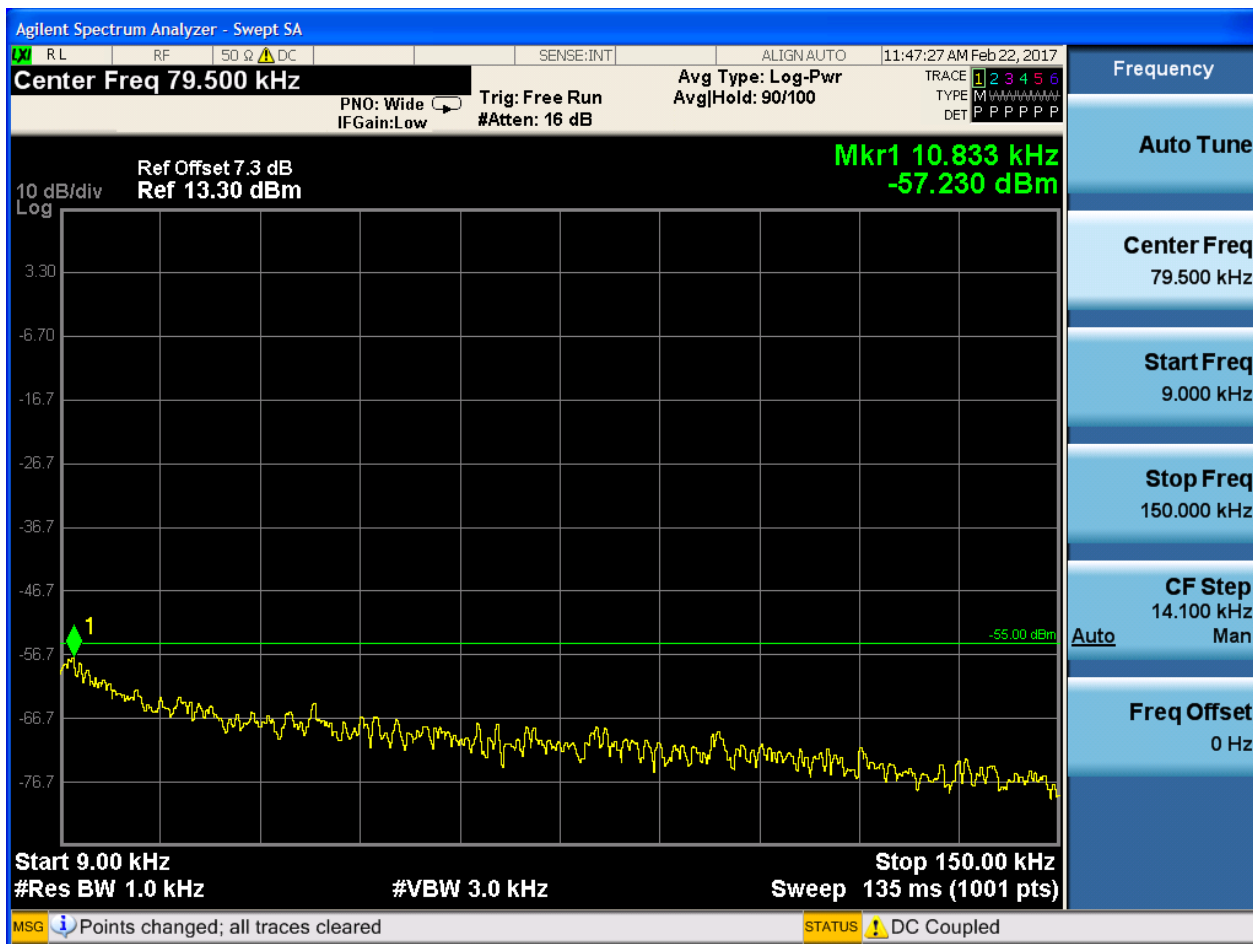




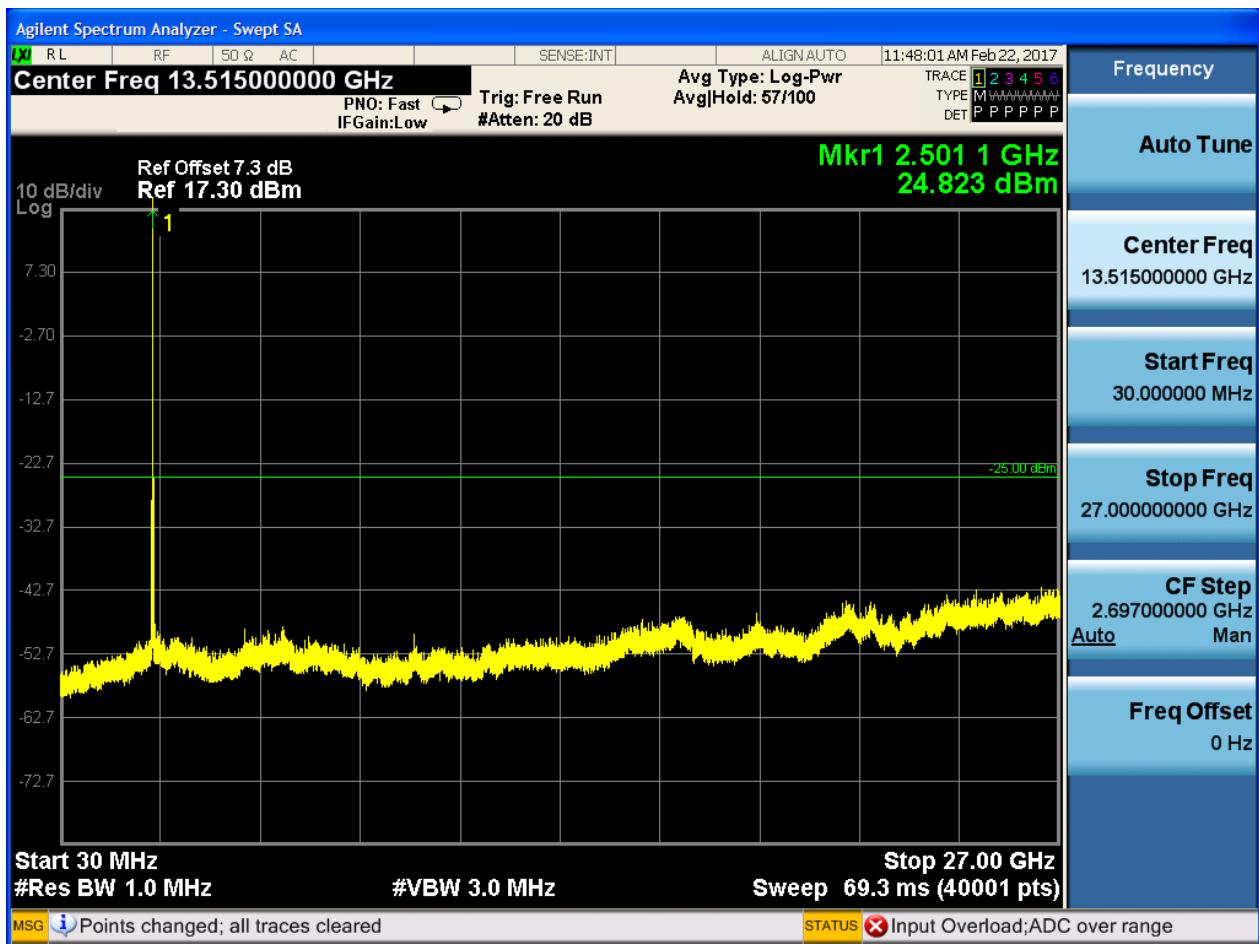
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





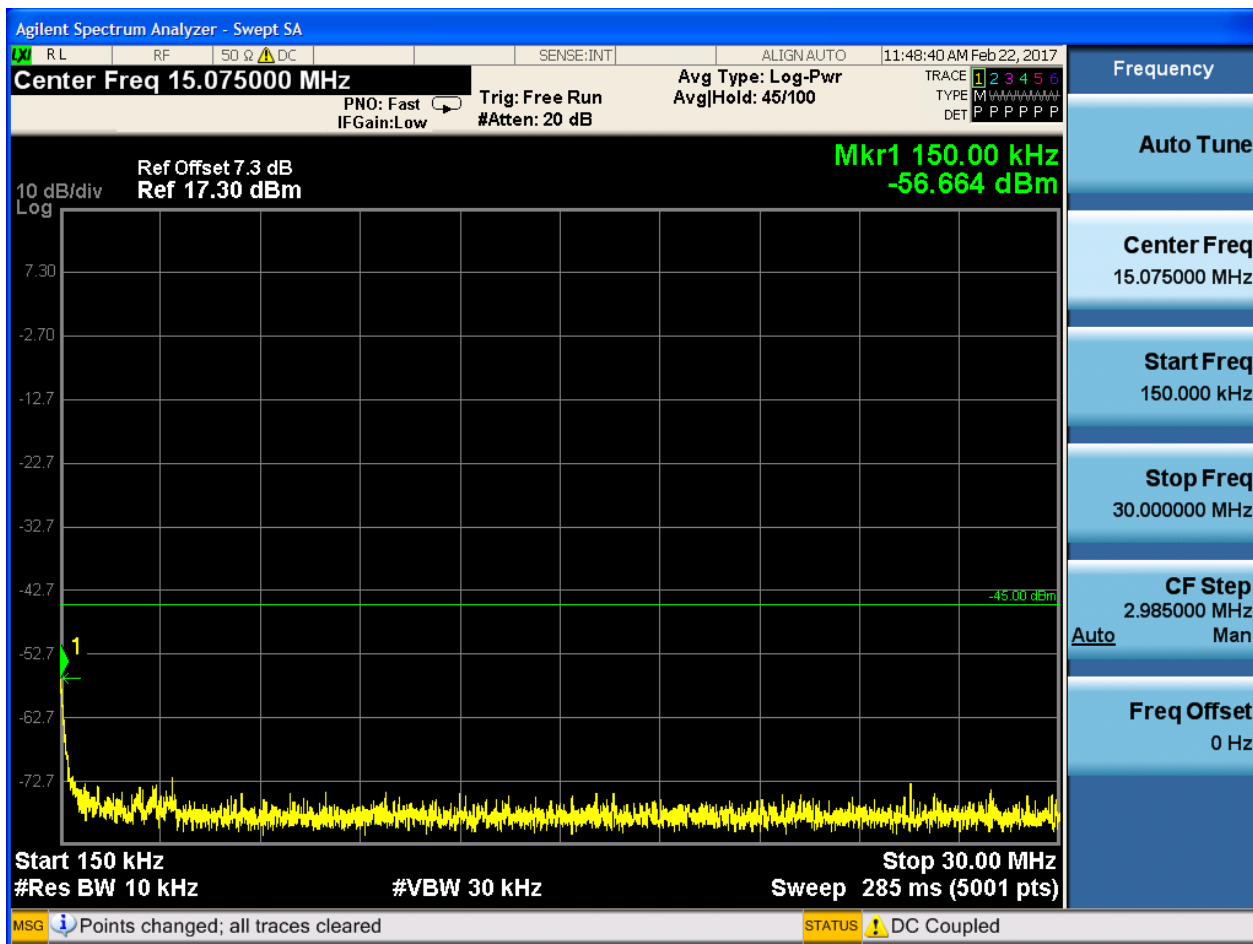




6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



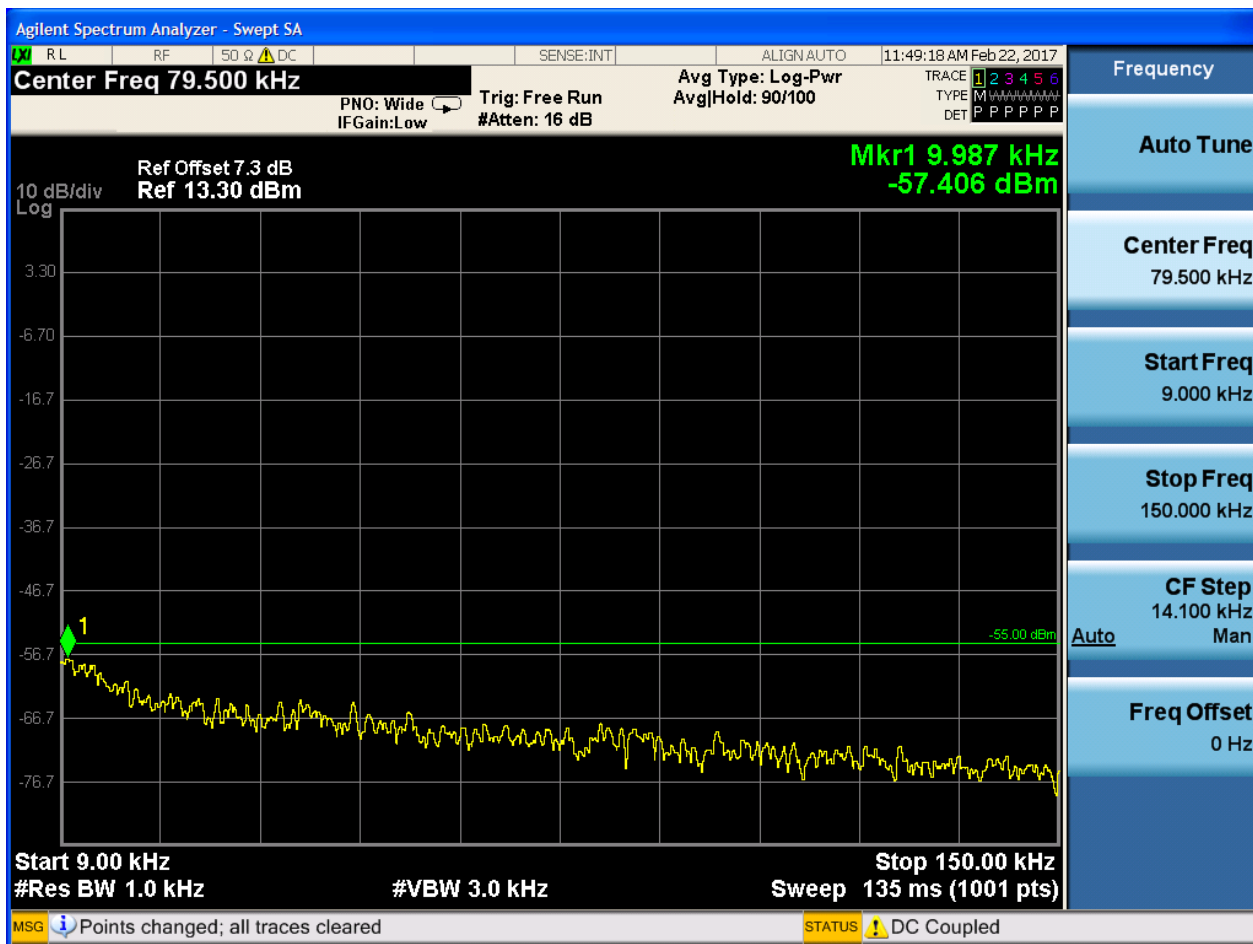




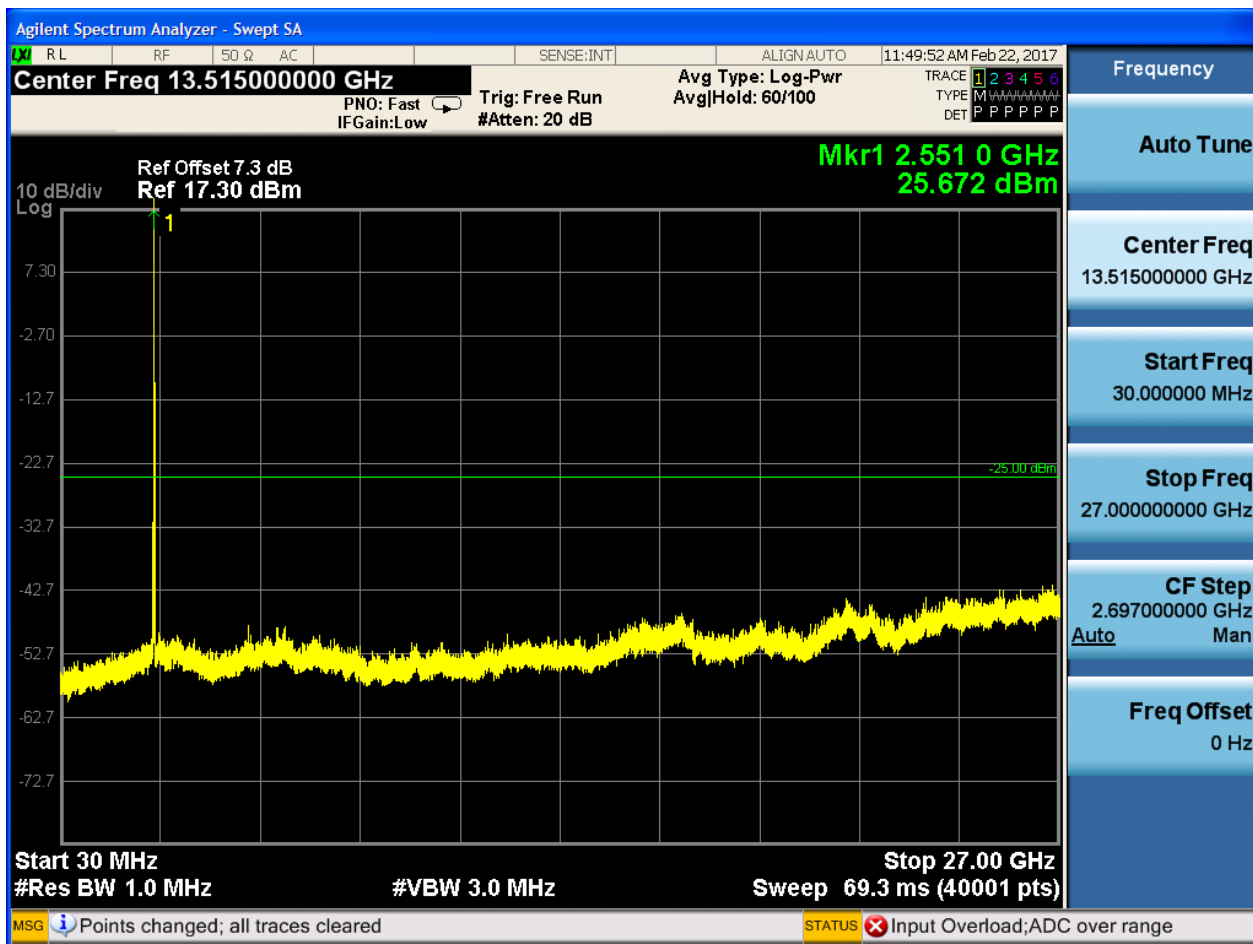


6.1.1.2.4.3 Test Channel = HCH

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

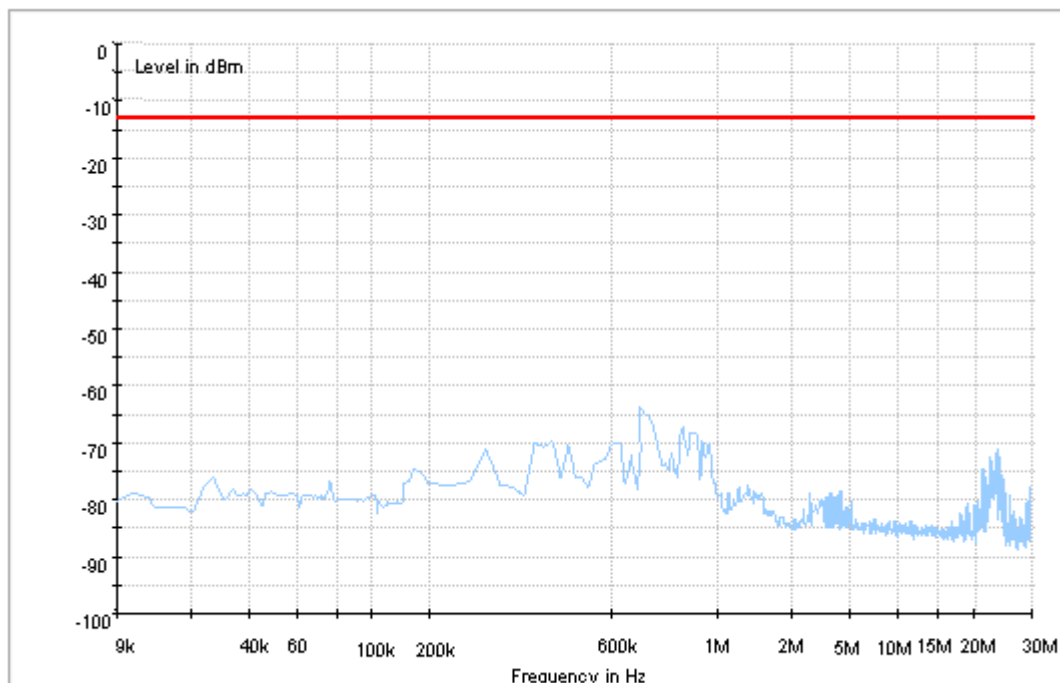
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

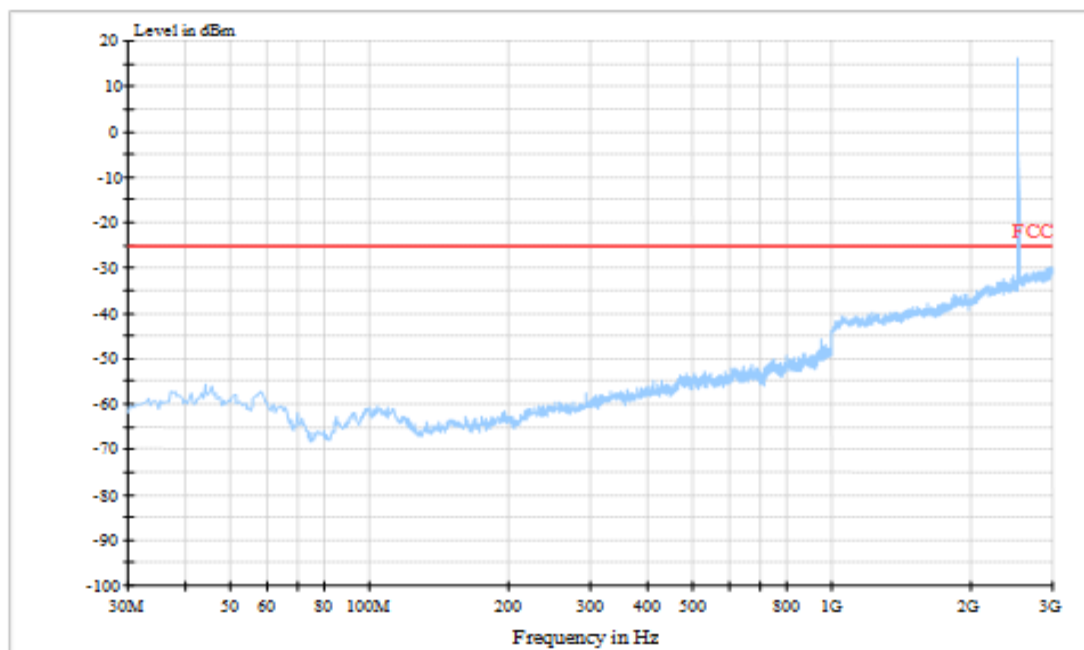
Part I - Test Plots

7.1 For LTE

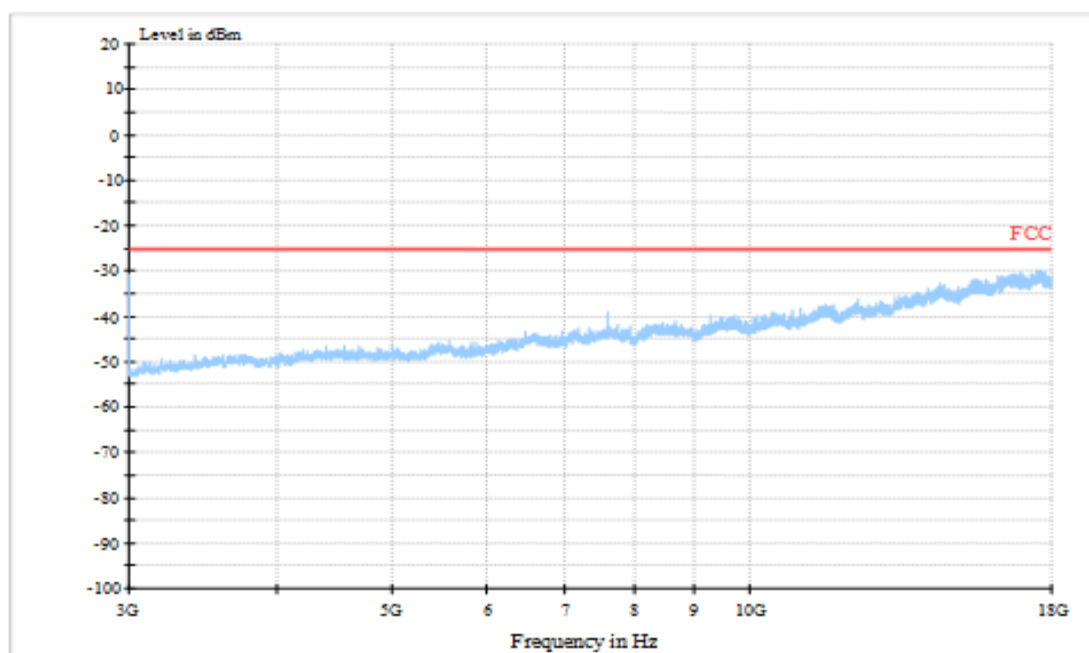
7.1.1 Test Band = BAND7

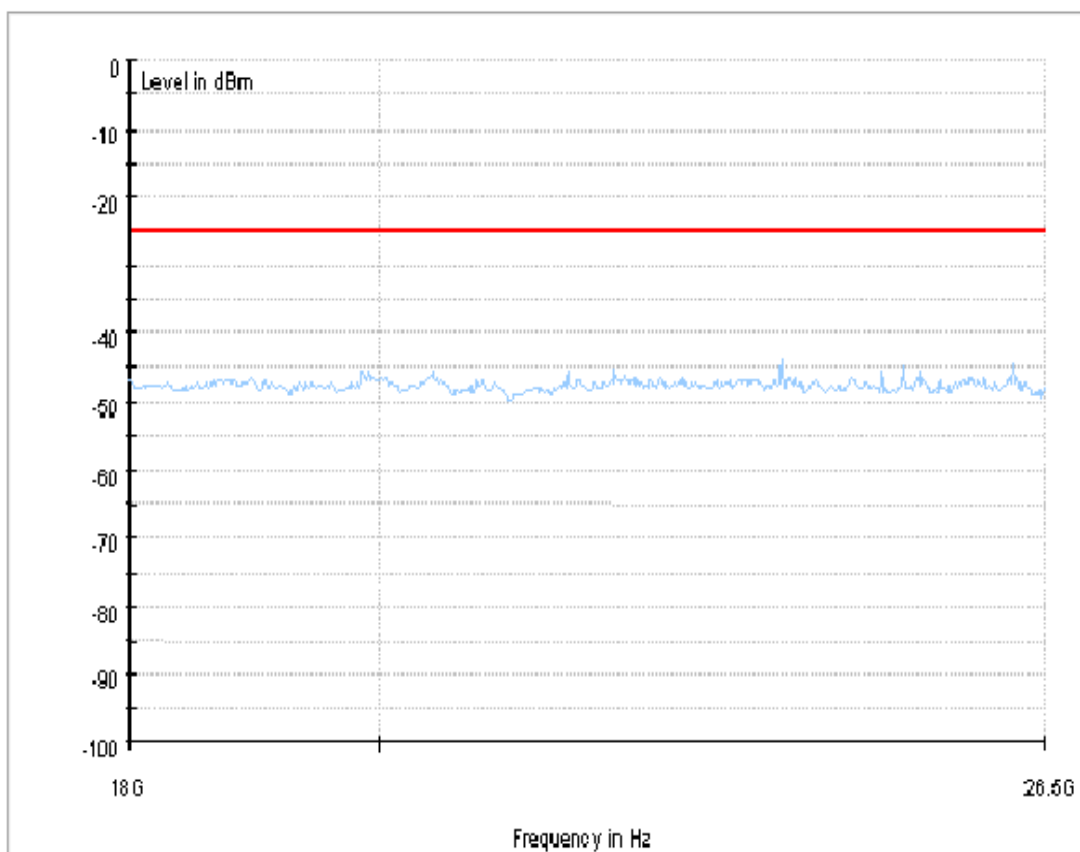
7.1.1.1 Test Bandwidth = 5



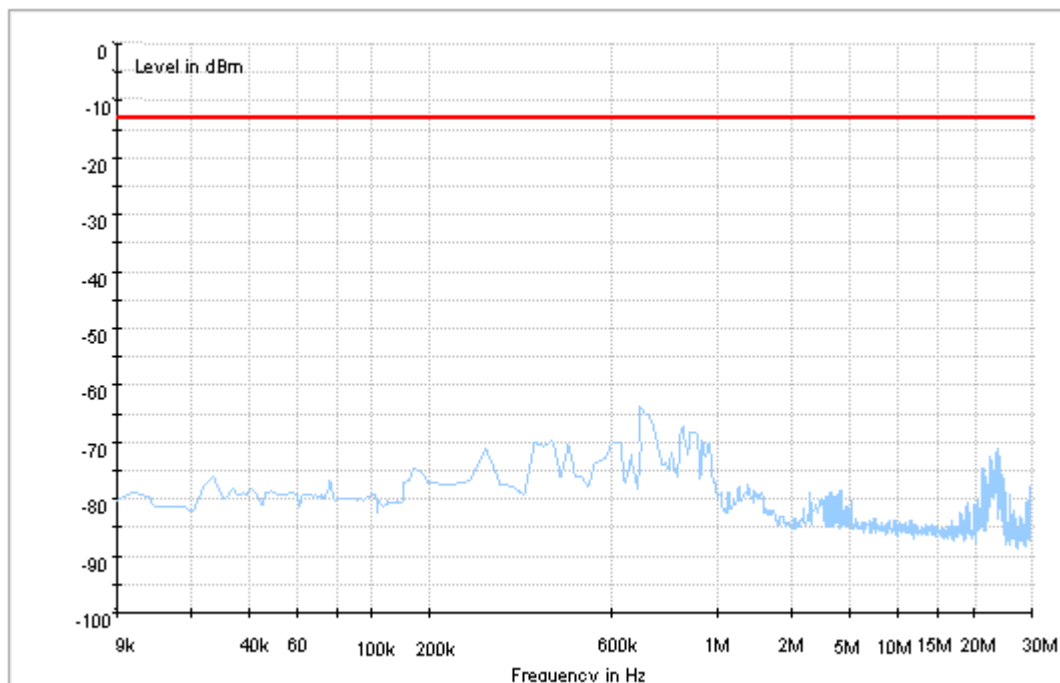


Copy of RSE-TX-DIRECTOR.ABOVE 1.5G_H

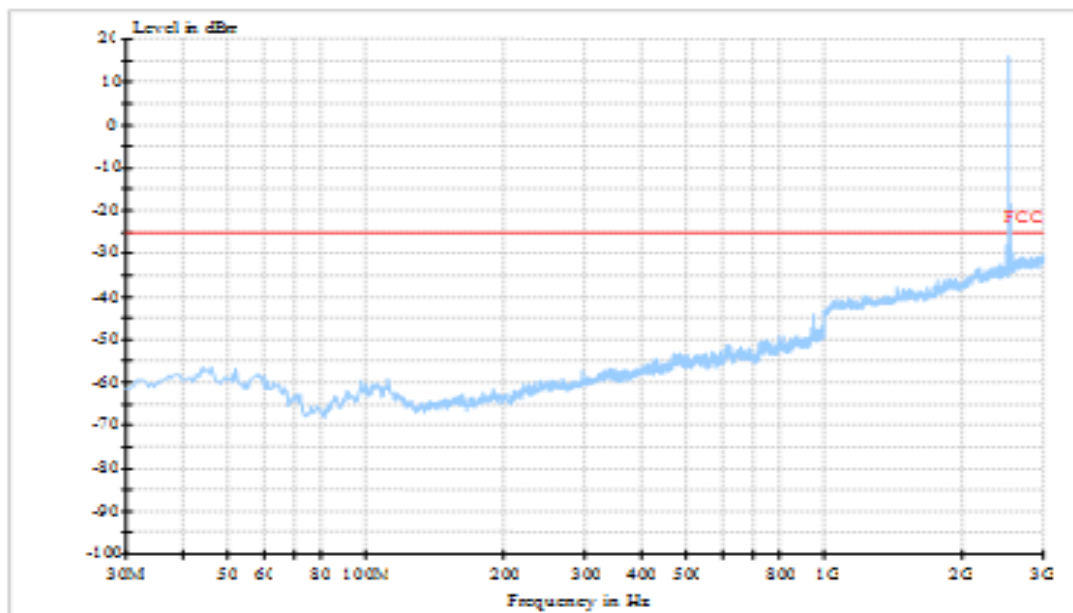




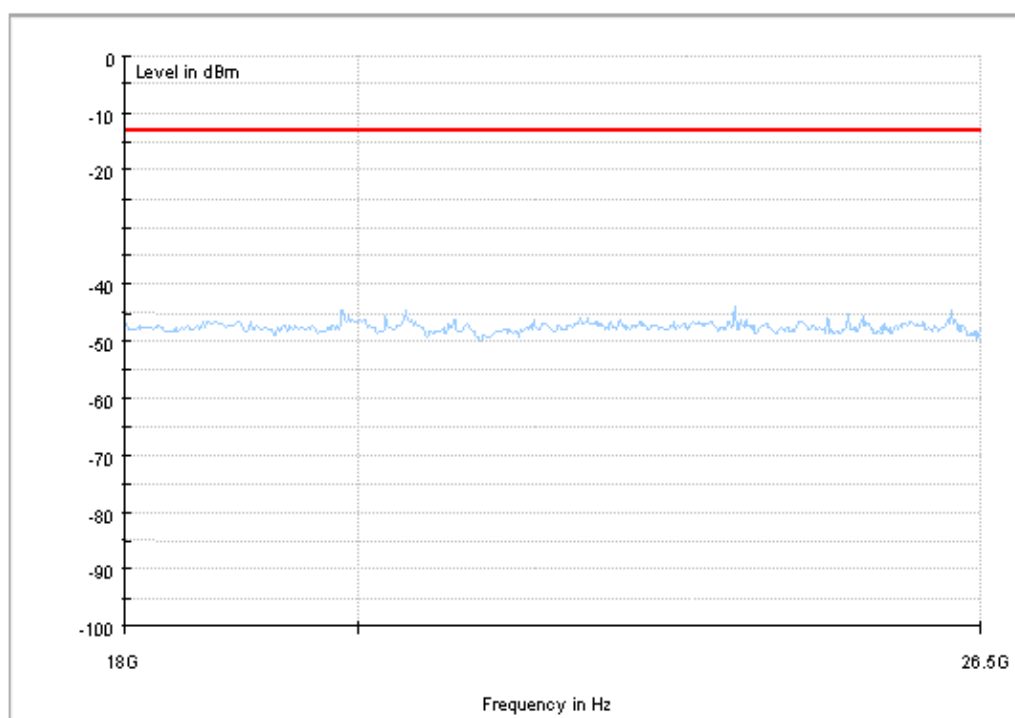
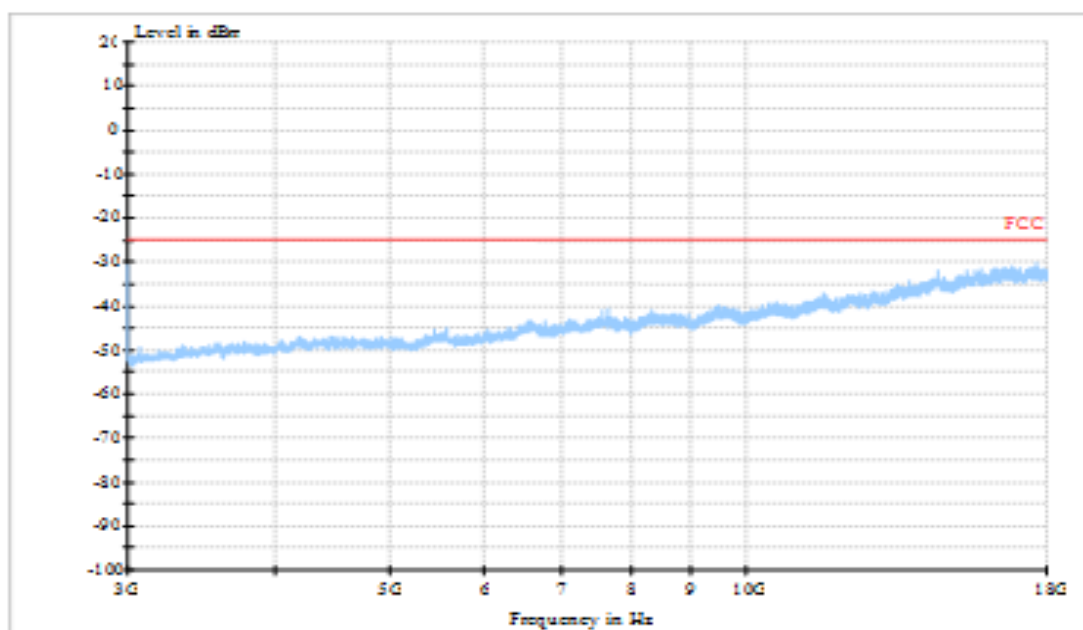
7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_1



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_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
BAND7	LTE/TM1	5	LCH	TN	VL	-0.60	-0.00024	PASS
					VN	-0.94	-0.00038	PASS
					VH	8.00	0.0032	PASS
			MCH	TN	VL	-5.22	-0.00206	PASS
					VN	-3.02	-0.00119	PASS
					VH	-3.83	-0.00151	PASS
			HCH	TN	VL	0.62	0.00024	PASS
					VN	1.47	0.00057	PASS
					VH	-5.81	-0.00226	PASS
		10	LCH	TN	VL	-0.20	-0.00008	PASS
					VN	-2.09	-0.00083	PASS
					VH	-3.81	-0.00152	PASS
			MCH	TN	VL	-5.55	-0.00219	PASS
					VN	-4.21	-0.00166	PASS
					VH	-3.79	-0.0015	PASS
			HCH	TN	VL	-4.92	-0.00192	PASS
					VN	-1.16	-0.00045	PASS
					VH	-3.96	-0.00154	PASS
		15	LCH	TN	VL	3.18	0.00127	PASS
					VN	0.20	0.00008	PASS
					VH	1.90	0.00076	PASS
			MCH	TN	VL	-1.95	-0.00077	PASS
					VN	-6.42	-0.00253	PASS
					VH	-5.66	-0.00223	PASS
			HCH	TN	VL	-0.99	-0.00039	PASS
					VN	1.99	0.00078	PASS
					VH	-0.36	-0.00014	PASS
		20	LCH	TN	VL	0.23	0.00009	PASS
					VN	0.29	0.00012	PASS
					VH	2.92	0.00116	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	-3.83	-0.00151	PASS
					VN	-3.35	-0.00132	PASS
					VH	-3.58	-0.00141	PASS
			HCH	TN	VL	-1.62	-0.00063	PASS
					VN	2.25	0.00088	PASS
					VH	0.01	0	PASS
		5	LCH	TN	VL	0.51	0.0002	PASS
					VN	-7.04	-0.00281	PASS
					VH	1.49	0.0006	PASS
			MCH	TN	VL	-3.36	-0.00133	PASS
					VN	1.56	0.00062	PASS
					VH	-3.52	-0.00139	PASS
			HCH	TN	VL	-0.83	-0.00032	PASS
					VN	-2.60	-0.00101	PASS
					VH	0.77	0.0003	PASS
		10	LCH	TN	VL	-4.38	-0.00175	PASS
					VN	-2.15	-0.00086	PASS
					VH	-1.65	-0.00066	PASS
			MCH	TN	VL	-0.44	-0.00017	PASS
					VN	-4.81	-0.0019	PASS
					VH	-5.46	-0.00215	PASS
			HCH	TN	VL	-1.47	-0.00057	PASS
					VN	-6.14	-0.00239	PASS
					VH	-4.05	-0.00158	PASS
		15	LCH	TN	VL	2.62	0.00104	PASS
					VN	-2.00	-0.0008	PASS
					VH	-0.40	-0.00016	PASS
			MCH	TN	VL	-3.49	-0.00138	PASS
					VN	-2.76	-0.00109	PASS
					VH	-1.23	-0.00049	PASS
			HCH	TN	VL	2.49	0.00097	PASS
					VN	2.25	0.00088	PASS
					VH	2.05	0.0008	PASS
		20	LCH	TN	VL	1.89	0.00075	PASS
					VN	1.14	0.00045	PASS
					VH	1.52	0.00061	PASS
			MCH	TN	VL	-3.60	-0.00142	PASS
					VN	-3.75	-0.00148	PASS
					VH	-2.98	-0.00118	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	-1.00	-0.00039	PASS
					VN	0.63	0.00025	PASS
					VH	0.79	0.00031	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
BAND7	LTE/TM1	5	LCH	VN	-30	3.18	0.00127	PASS
					-20	-0.67	-0.00027	PASS
					-10	3.96	0.00158	PASS
					0	1.49	0.0006	PASS
					10	1.73	0.00069	PASS
					20	-2.20	-0.00088	PASS
					30	0.90	0.00036	PASS
					40	0.93	0.00037	PASS
					50	0.77	0.00031	PASS
			MCH	VN	-30	-2.53	-0.001	PASS
					-20	-4.82	-0.0019	PASS
					-10	-3.40	-0.00134	PASS
					0	-2.80	-0.0011	PASS
					10	-9.28	-0.00366	PASS
					20	-0.77	-0.0003	PASS
					30	-4.16	-0.00164	PASS
					40	-1.96	-0.00077	PASS
					50	-1.62	-0.00064	PASS
			HCH	VN	-30	-2.13	-0.00083	PASS
					-20	0.37	0.00014	PASS
					-10	0.50	0.00019	PASS
					0	-1.99	-0.00078	PASS
					10	-1.23	-0.00048	PASS
					20	0.62	0.00024	PASS
					30	-2.52	-0.00098	PASS
					40	2.63	0.00102	PASS
					50	3.35	0.0013	PASS
		10	LCH	VN	-30	-1.26	-0.0005	PASS
					-20	-4.86	-0.00194	PASS
					-10	-2.89	-0.00115	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		15			0	-3.43	-0.00137	PASS
					10	-2.23	-0.00089	PASS
					20	-5.34	-0.00213	PASS
					30	-3.40	-0.00136	PASS
					40	-0.33	-0.00013	PASS
					50	-3.23	-0.00129	PASS
			MCH	VN	-30	-3.39	-0.00134	PASS
					-20	-1.69	-0.00067	PASS
					-10	-0.40	-0.00016	PASS
					0	-4.63	-0.00183	PASS
					10	-2.42	-0.00095	PASS
					20	-6.07	-0.00239	PASS
					30	-2.36	-0.00093	PASS
					40	-5.31	-0.00209	PASS
					50	-2.16	-0.00085	PASS
			HCH	VN	-30	-3.00	-0.00117	PASS
					-20	-3.42	-0.00133	PASS
					-10	-6.94	-0.00271	PASS
					0	-5.99	-0.00234	PASS
					10	-4.49	-0.00175	PASS
					20	-2.20	-0.00086	PASS
					30	-3.81	-0.00149	PASS
					40	-2.25	-0.00088	PASS
					50	-0.46	-0.00018	PASS
			LCH	VN	-30	0.89	0.00035	PASS
					-20	-2.50	-0.001	PASS
					-10	0.21	0.00008	PASS
					0	1.67	0.00067	PASS
					10	1.26	0.0005	PASS
					20	0.63	0.00025	PASS
					30	1.77	0.00071	PASS
					40	0.77	0.00031	PASS
					50	-2.59	-0.00103	PASS
			MCH	VN	-30	-4.91	-0.00194	PASS
					-20	-1.32	-0.00052	PASS
					-10	-4.25	-0.00168	PASS
					0	-3.59	-0.00142	PASS
					10	-0.41	-0.00016	PASS
					20	-0.97	-0.00038	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-2.88	-0.00114	PASS
					40	-0.86	-0.00034	PASS
					50	-5.51	-0.00217	PASS
			HCH	VN	-30	1.10	0.00043	PASS
					-20	1.50	0.00059	PASS
					-10	0.23	0.00009	PASS
					0	-0.23	-0.00009	PASS
					10	0.11	0.00004	PASS
					20	1.19	0.00046	PASS
					30	-0.50	-0.0002	PASS
					40	1.26	0.00049	PASS
					50	0.06	0.00002	PASS
			LCH	VN	-30	2.33	0.00093	PASS
					-20	2.13	0.00085	PASS
					-10	3.13	0.00125	PASS
					0	2.55	0.00102	PASS
					10	2.66	0.00106	PASS
					20	0.41	0.00016	PASS
					30	2.56	0.00102	PASS
					40	3.53	0.00141	PASS
					50	1.40	0.00056	PASS
		20	MCH	VN	-30	-3.45	-0.00136	PASS
					-20	-6.01	-0.00237	PASS
					-10	-3.30	-0.0013	PASS
					0	-2.95	-0.00116	PASS
					10	-2.62	-0.00103	PASS
					20	-3.96	-0.00156	PASS
					30	-4.52	-0.00178	PASS
					40	-3.48	-0.00137	PASS
					50	-3.13	-0.00123	PASS
			HCH	VN	-30	0.21	0.00008	PASS
					-20	-0.19	-0.00007	PASS
					-10	1.34	0.00052	PASS
					0	1.65	0.00064	PASS
					10	-0.64	-0.00025	PASS
					20	1.06	0.00041	PASS
					30	-0.79	-0.00031	PASS
					40	1.62	0.00063	PASS
					50	0.69	0.00027	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5	LCH	VN	-30	3.75	0.0015	PASS
					-20	-4.84	-0.00193	PASS
					-10	-7.64	-0.00305	PASS
					0	4.38	0.00175	PASS
					10	2.79	0.00111	PASS
					20	3.49	0.00139	PASS
					30	0.53	0.00021	PASS
					40	-2.82	-0.00113	PASS
					50	2.90	0.00116	PASS
			MCH	VN	-30	-1.36	-0.00054	PASS
					-20	-0.83	-0.00033	PASS
					-10	-3.73	-0.00147	PASS
					0	1.54	0.00061	PASS
					10	-2.33	-0.00092	PASS
					20	-1.32	-0.00052	PASS
					30	-1.04	-0.00041	PASS
					40	-1.90	-0.00075	PASS
					50	-4.19	-0.00165	PASS
			HCH	VN	-30	-0.39	-0.00015	PASS
					-20	4.35	0.00169	PASS
					-10	-4.48	-0.00174	PASS
					0	2.33	0.00091	PASS
					10	-4.68	-0.00182	PASS
					20	1.09	0.00042	PASS
					30	-1.65	-0.00064	PASS
					40	-1.54	-0.0006	PASS
					50	1.99	0.00078	PASS
		10	LCH	VN	-30	-6.77	-0.0027	PASS
					-20	-2.73	-0.00109	PASS
					-10	-0.77	-0.00031	PASS
					0	-3.89	-0.00155	PASS
					10	-3.30	-0.00132	PASS
					20	-5.54	-0.00221	PASS
					30	-2.70	-0.00108	PASS
					40	-4.43	-0.00177	PASS
					50	-5.08	-0.00203	PASS
			MCH	VN	-30	-5.28	-0.00208	PASS
					-20	-0.31	-0.00012	PASS
					-10	-5.09	-0.00201	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-2.78	-0.0011	PASS
					10	-4.02	-0.00159	PASS
					20	-3.58	-0.00141	PASS
					30	-0.66	-0.00026	PASS
					40	-3.30	-0.0013	PASS
					50	-2.03	-0.0008	PASS
			HCH	VN	-30	-0.86	-0.00034	PASS
					-20	-5.02	-0.00196	PASS
					-10	-1.89	-0.00074	PASS
					0	-3.15	-0.00123	PASS
					10	-5.55	-0.00216	PASS
					20	-4.51	-0.00176	PASS
					30	-4.23	-0.00165	PASS
					40	-5.21	-0.00203	PASS
					50	-2.02	-0.00079	PASS
		15	LCH	VN	-30	-0.73	-0.00029	PASS
					-20	-2.12	-0.00085	PASS
					-10	-1.80	-0.00072	PASS
					0	-3.83	-0.00153	PASS
					10	-2.88	-0.00115	PASS
					20	0.57	0.00023	PASS
					30	2.95	0.00118	PASS
					40	-1.77	-0.00071	PASS
					50	-1.26	-0.0005	PASS
			MCH	VN	-30	-1.66	-0.00065	PASS
					-20	-2.55	-0.00101	PASS
					-10	-3.38	-0.00133	PASS
					0	-3.49	-0.00138	PASS
					10	-1.92	-0.00076	PASS
					20	-1.20	-0.00047	PASS
					30	-2.76	-0.00109	PASS
					40	-1.77	-0.0007	PASS
					50	-1.93	-0.00076	PASS
			HCH	VN	-30	3.09	0.00121	PASS
					-20	1.37	0.00053	PASS
					-10	1.40	0.00055	PASS
					0	-2.16	-0.00084	PASS
					10	0.87	0.00034	PASS
					20	1.06	0.00041	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	2.73	0.00107	PASS
					40	-1.32	-0.00052	PASS
					50	1.10	0.00043	PASS
		20	LCH	VN	-30	2.37	0.00094	PASS
					-20	2.49	0.00099	PASS
					-10	-0.41	-0.00016	PASS
					0	2.20	0.00088	PASS
					10	-0.06	-0.00002	PASS
					20	1.93	0.00077	PASS
					30	3.43	0.00137	PASS
					40	1.76	0.0007	PASS
					50	1.72	0.00069	PASS
			MCH	VN	-30	-2.32	-0.00092	PASS
					-20	-3.26	-0.00129	PASS
					-10	-3.63	-0.00143	PASS
					0	-3.55	-0.0014	PASS
					10	-2.92	-0.00115	PASS
					20	-3.02	-0.00119	PASS
					30	-3.23	-0.00127	PASS
					40	-3.02	-0.00119	PASS
					50	-1.13	-0.00045	PASS
			HCH	VN	-30	-0.86	-0.00034	PASS
					-20	-0.16	-0.00006	PASS
					-10	1.00	0.00039	PASS
					0	1.83	0.00071	PASS
					10	-1.76	-0.00069	PASS
					20	0.67	0.00026	PASS
					30	3.12	0.00122	PASS
					40	0.90	0.00035	PASS
					50	-1.76	-0.00069	PASS

END