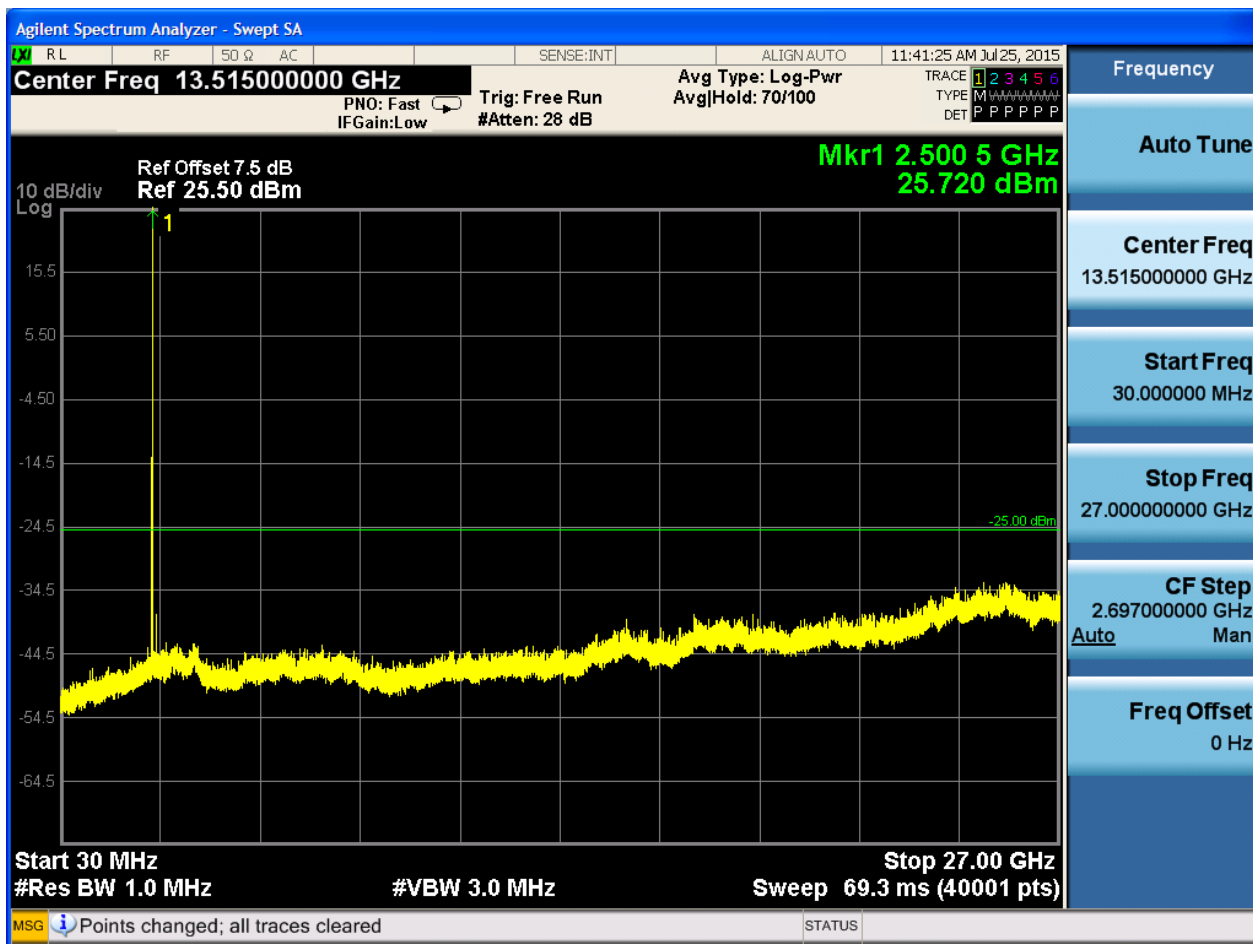
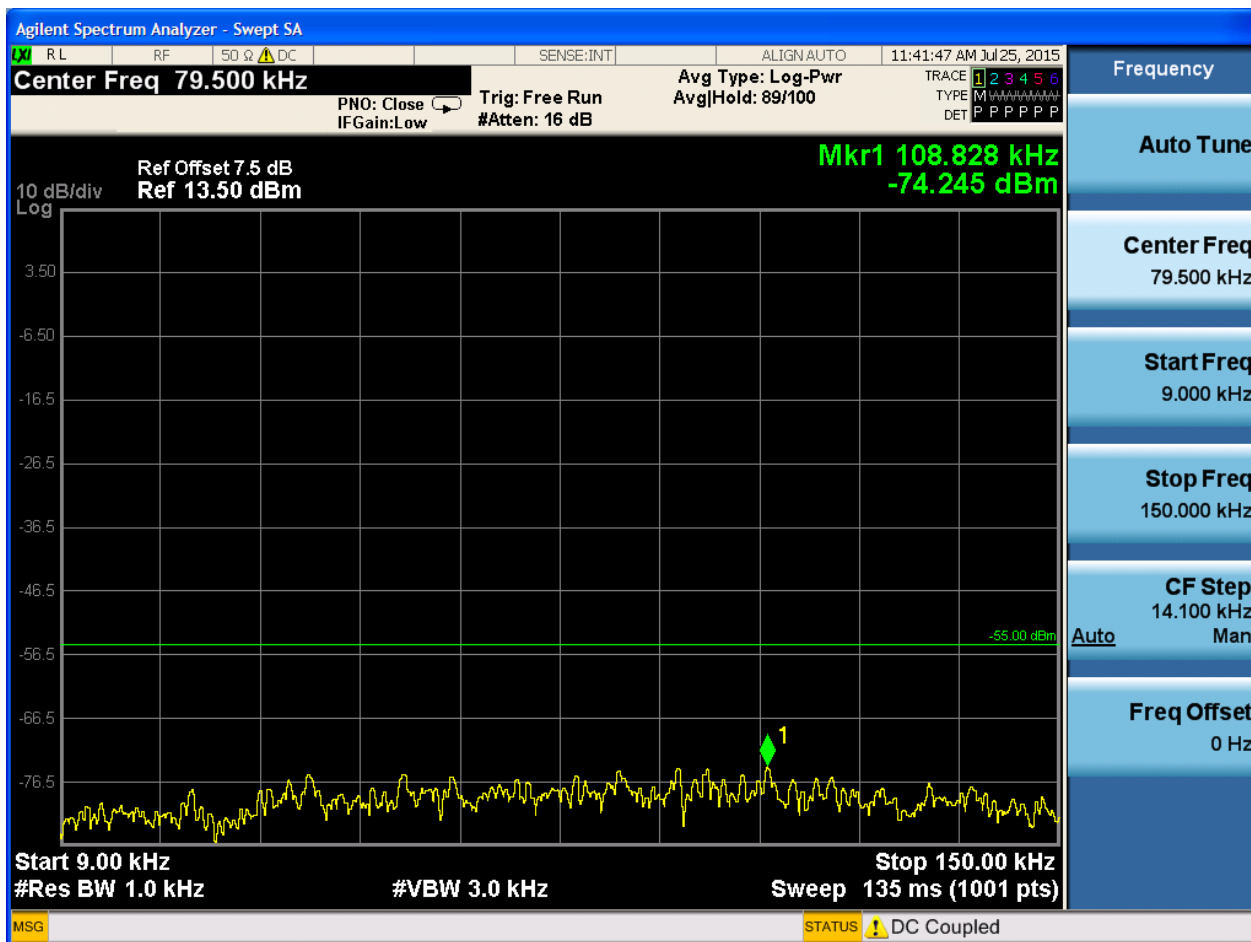
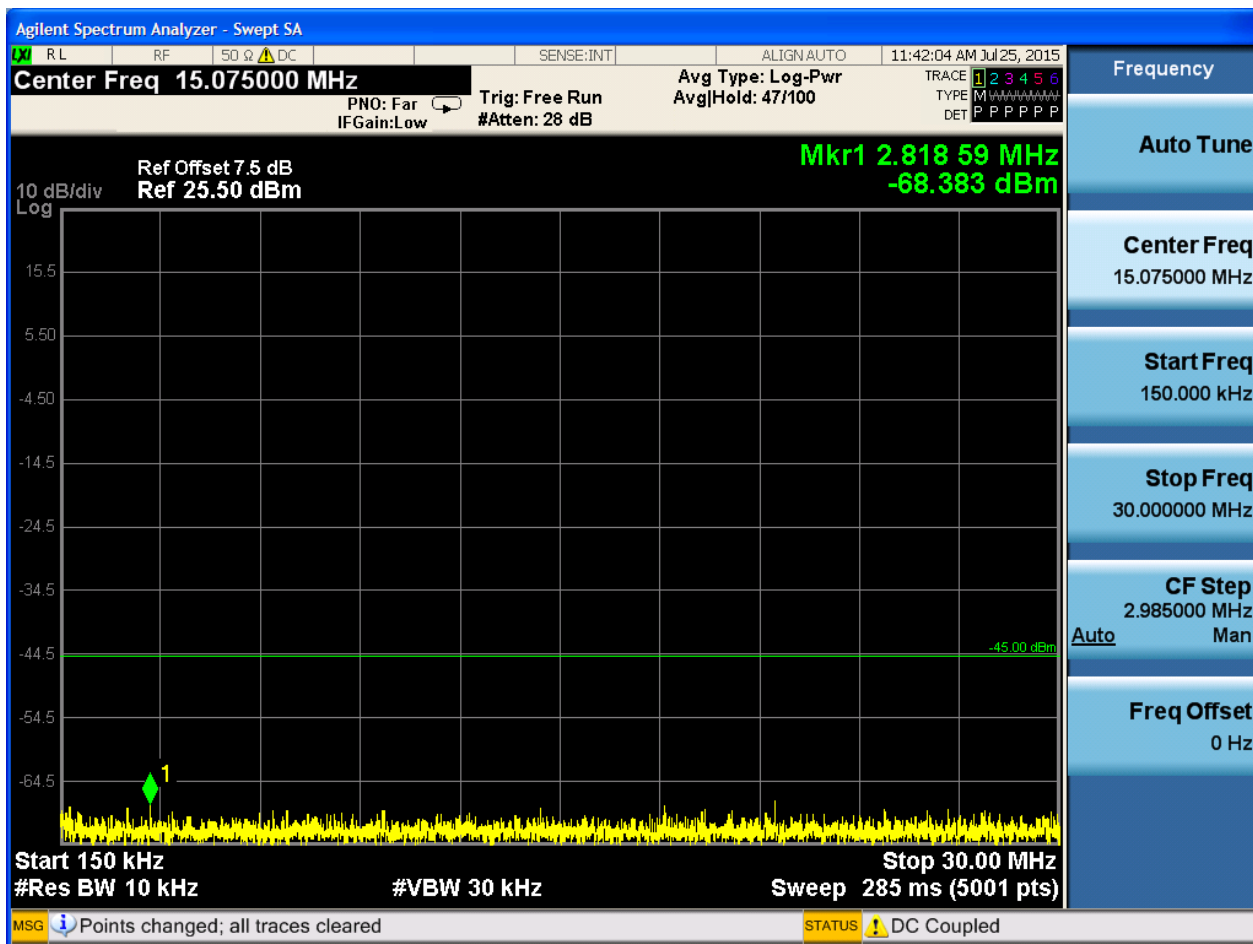


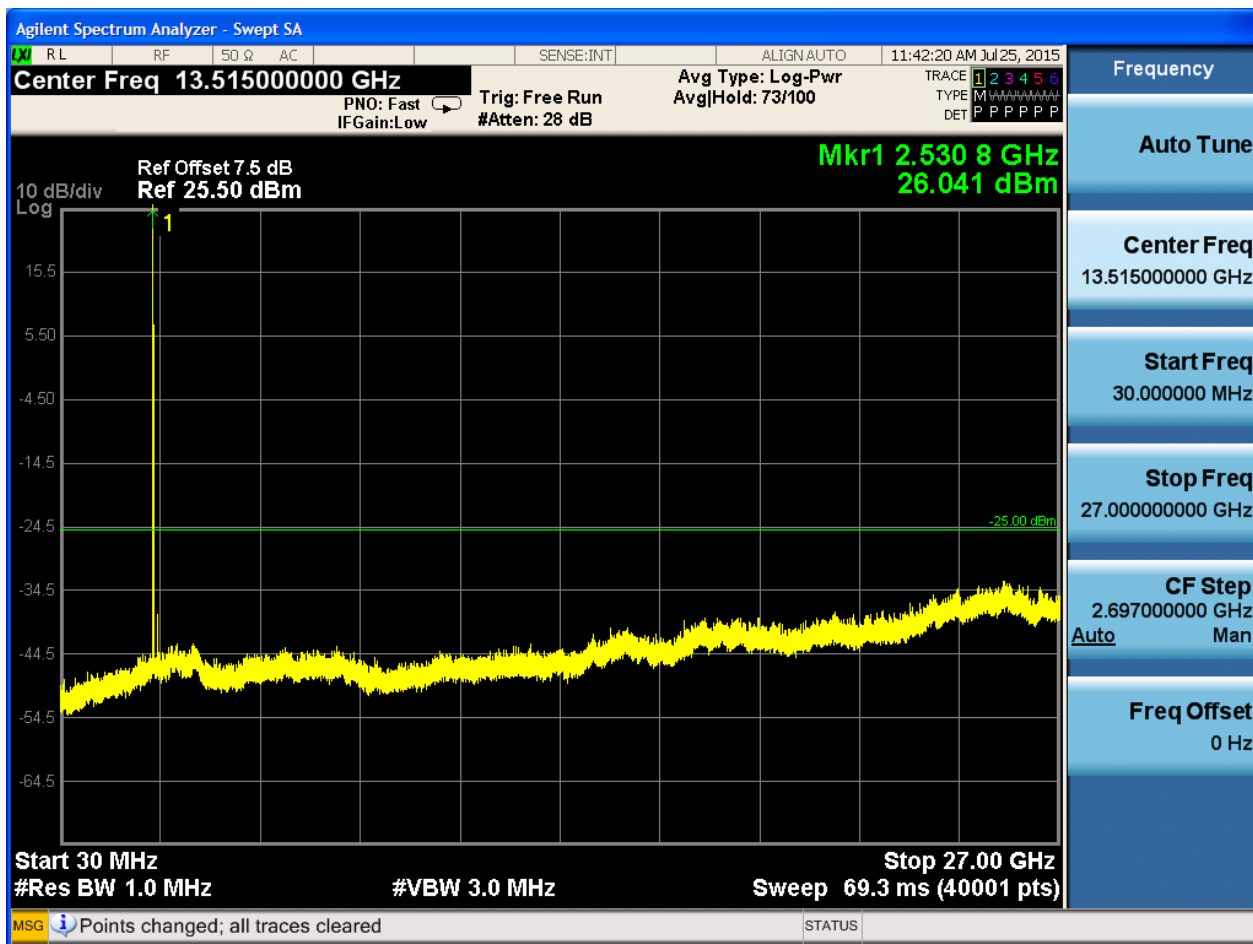


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

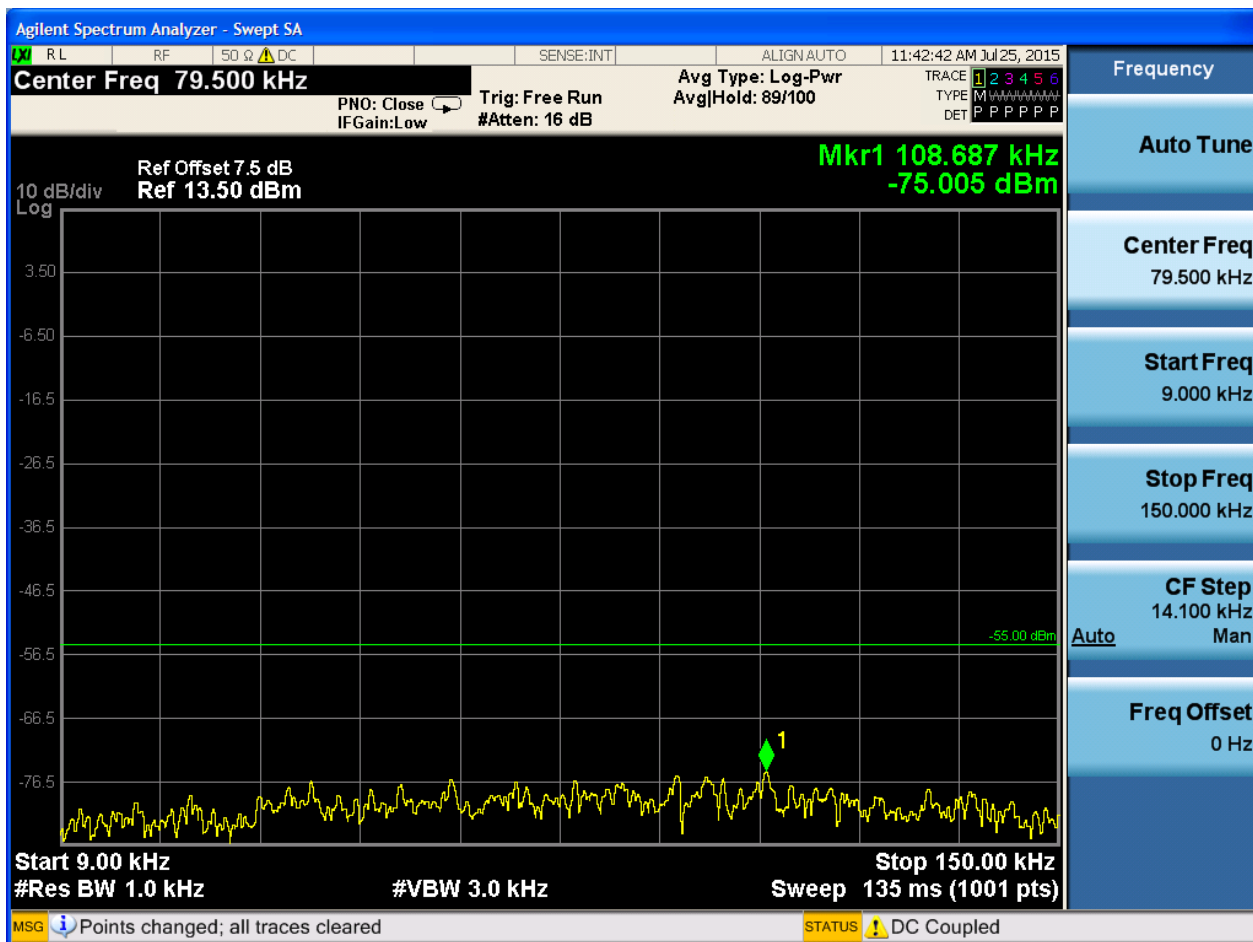


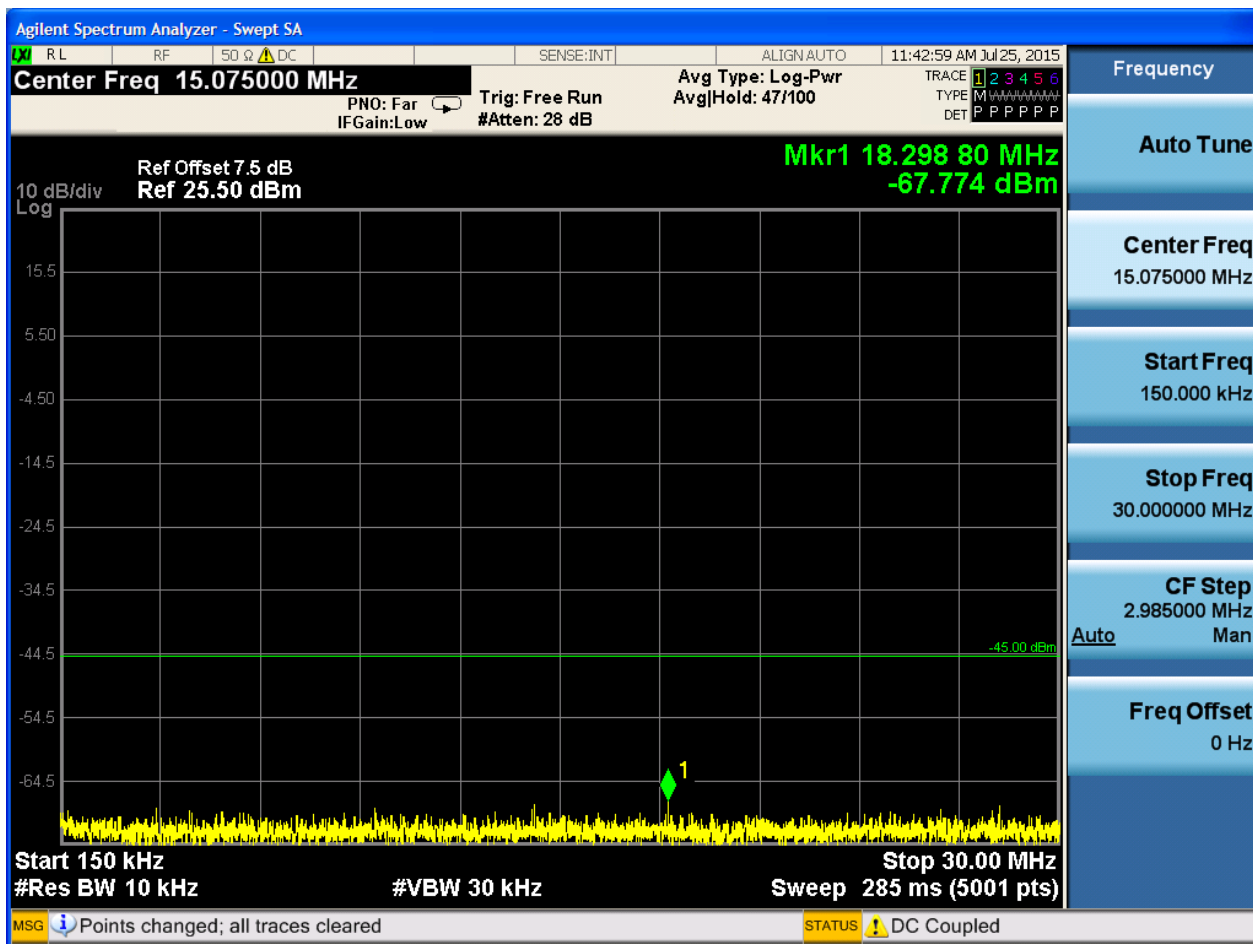


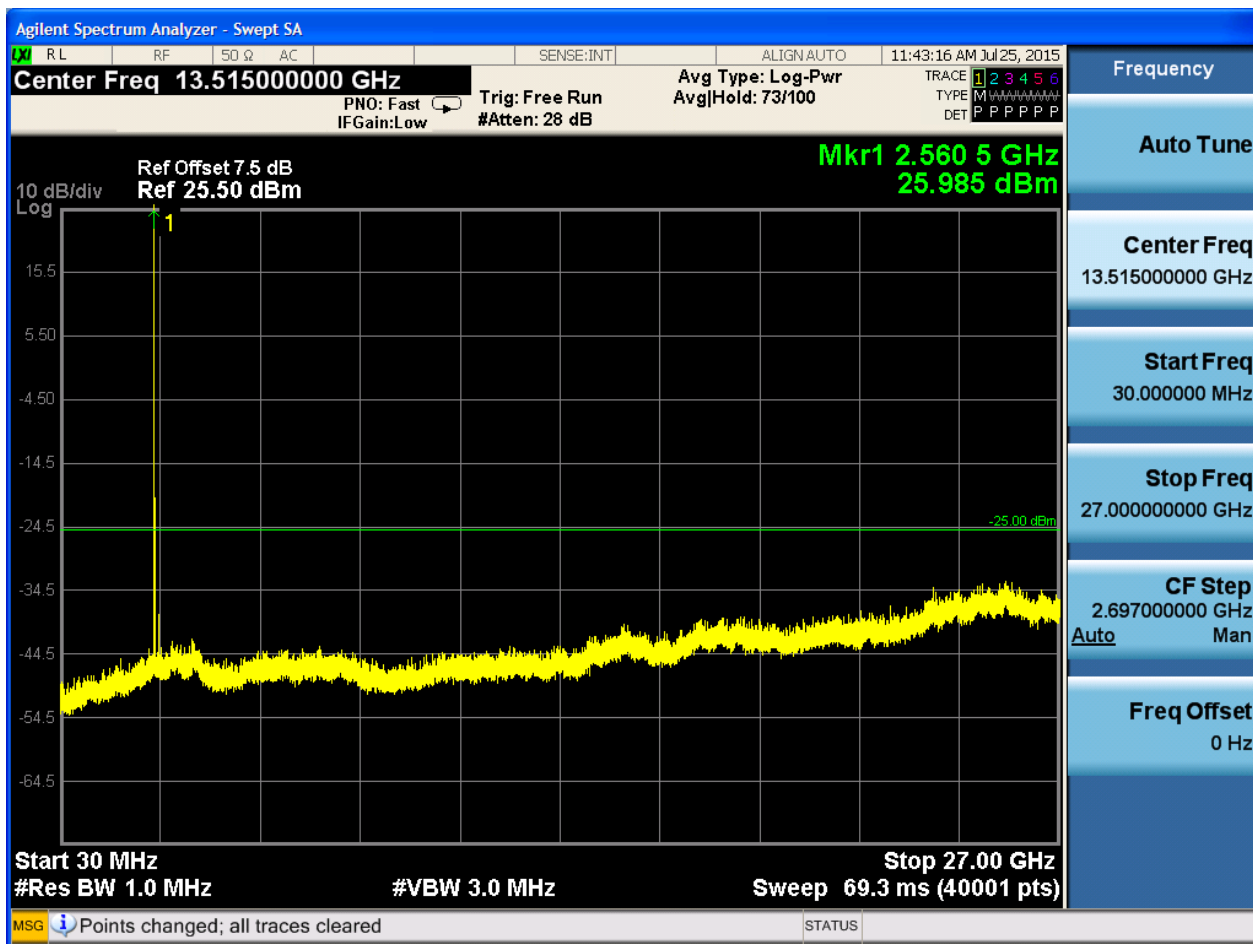


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



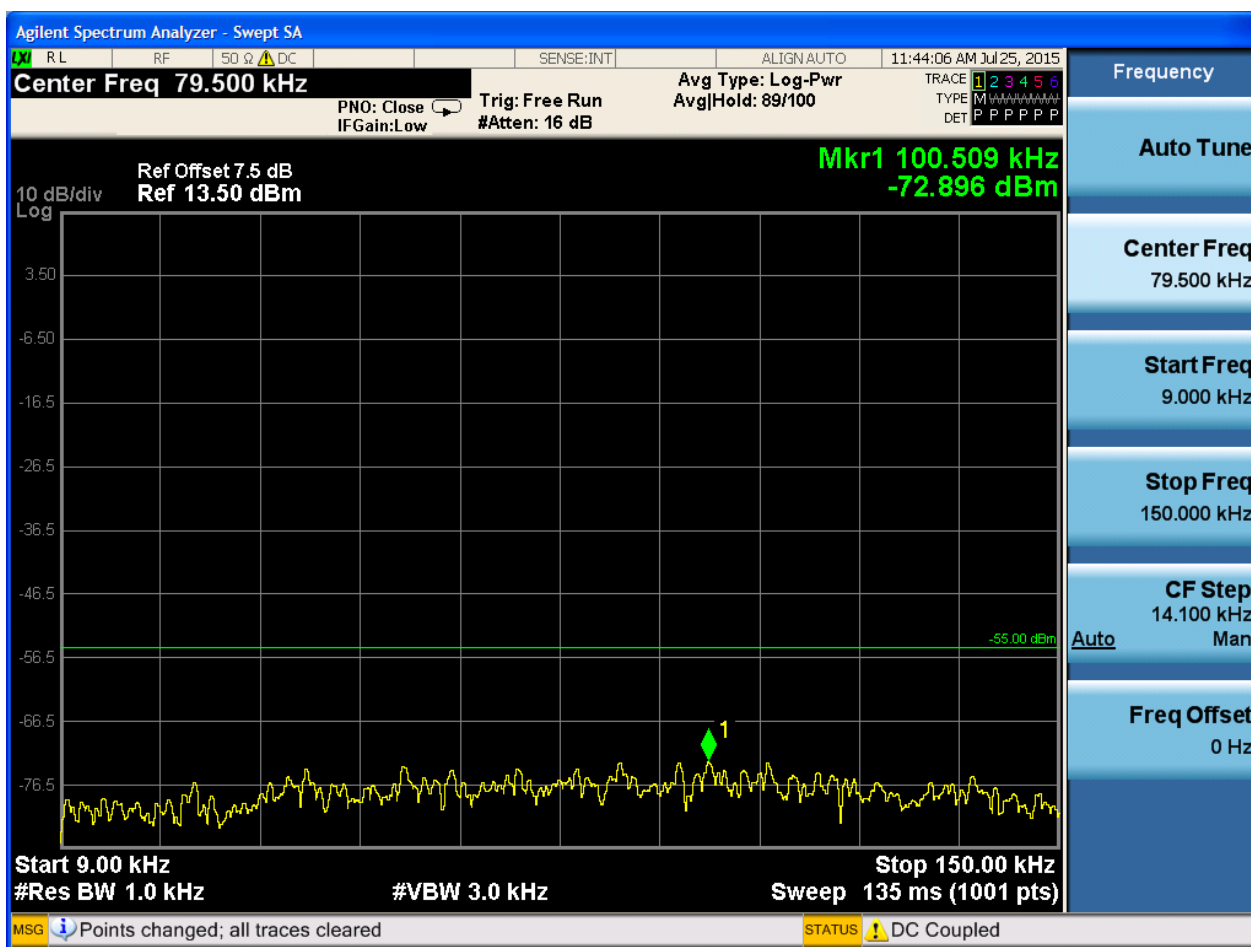


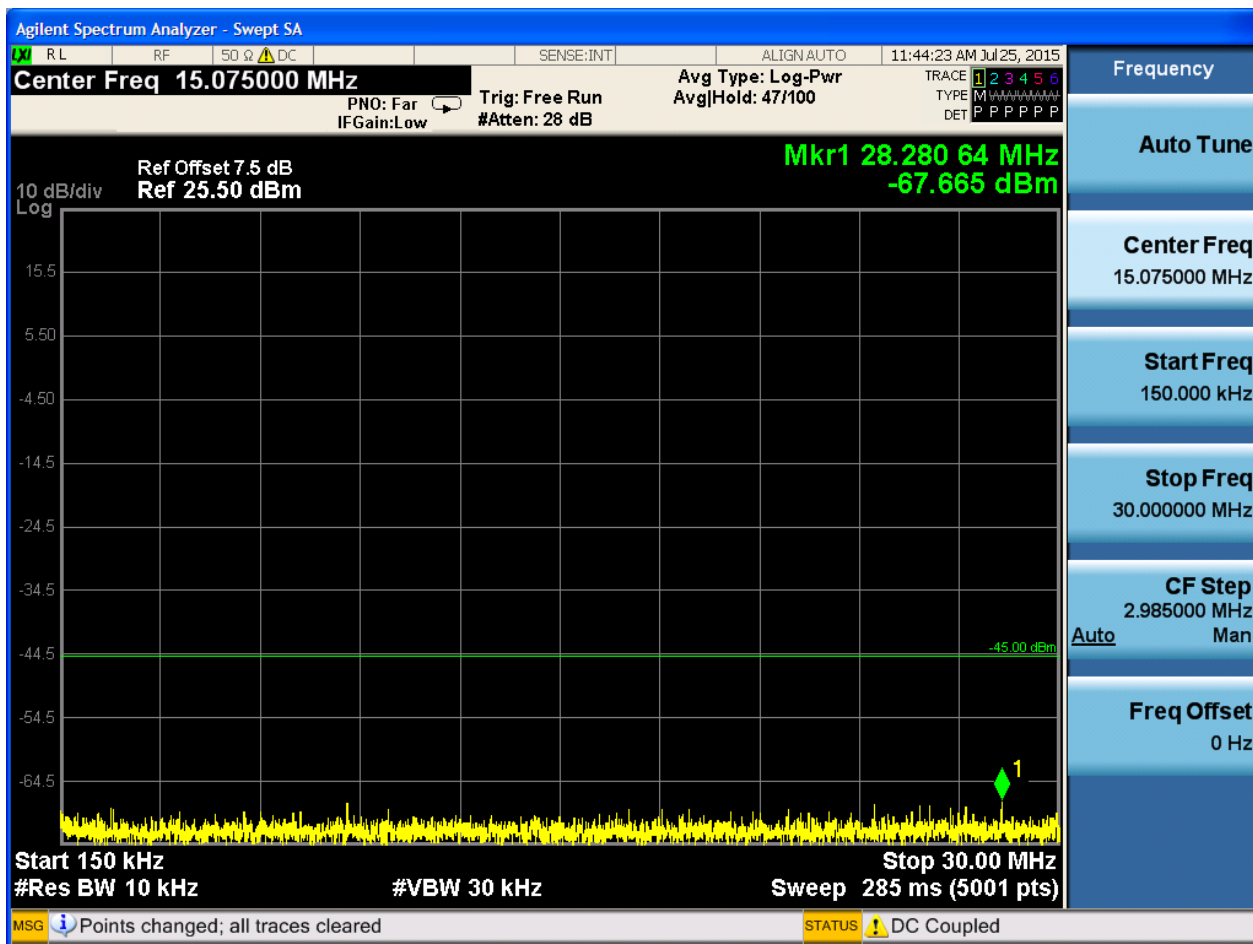


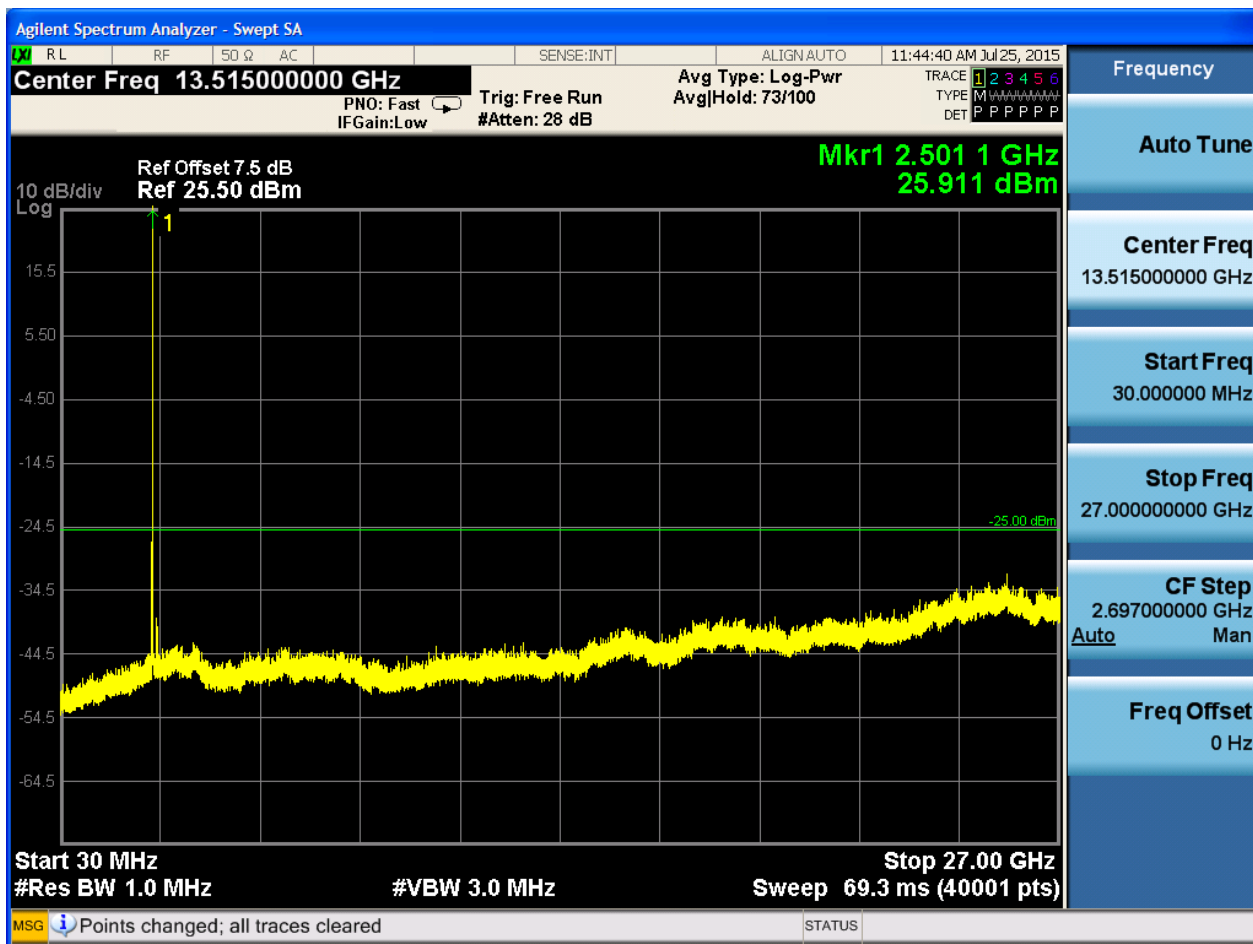
6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0

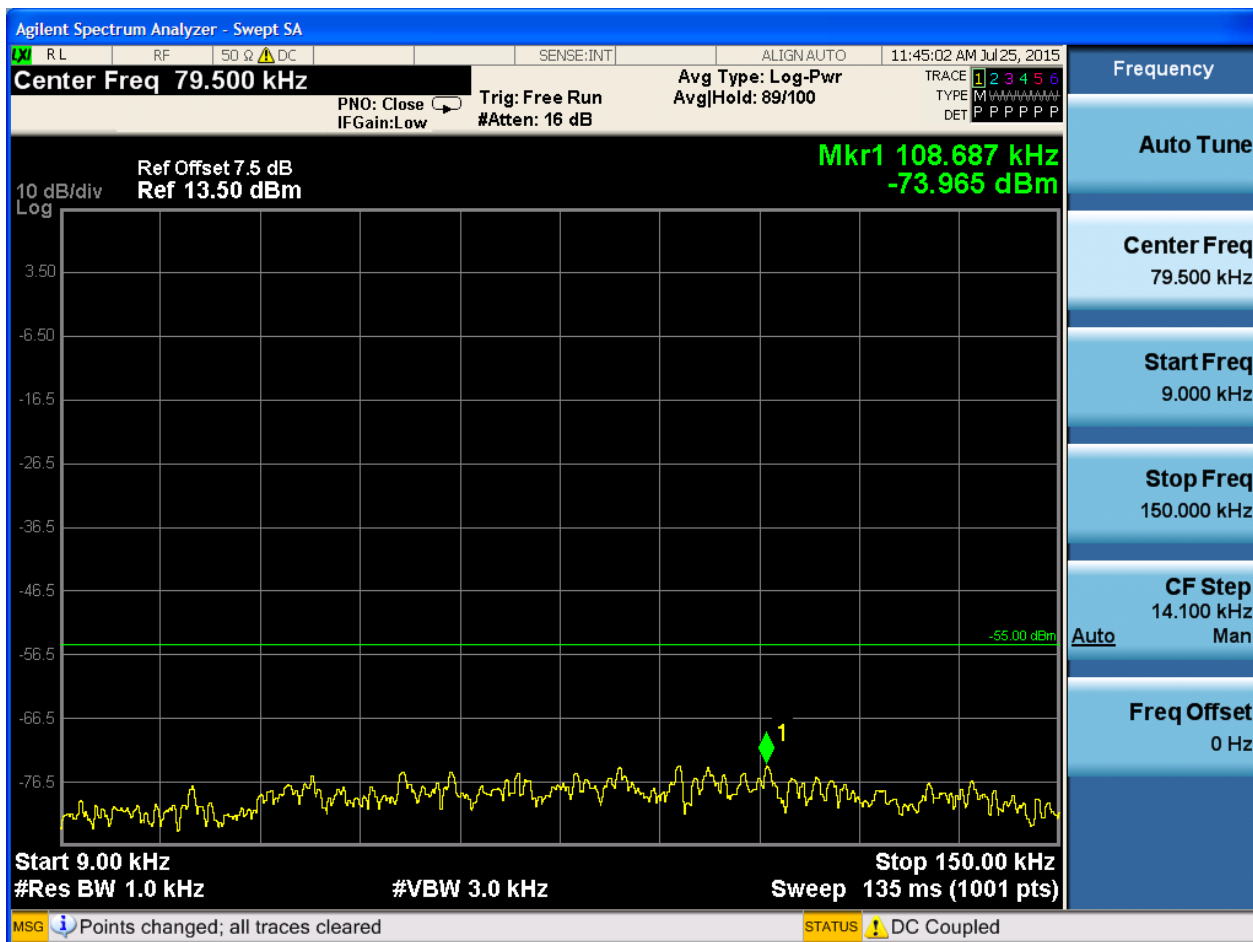


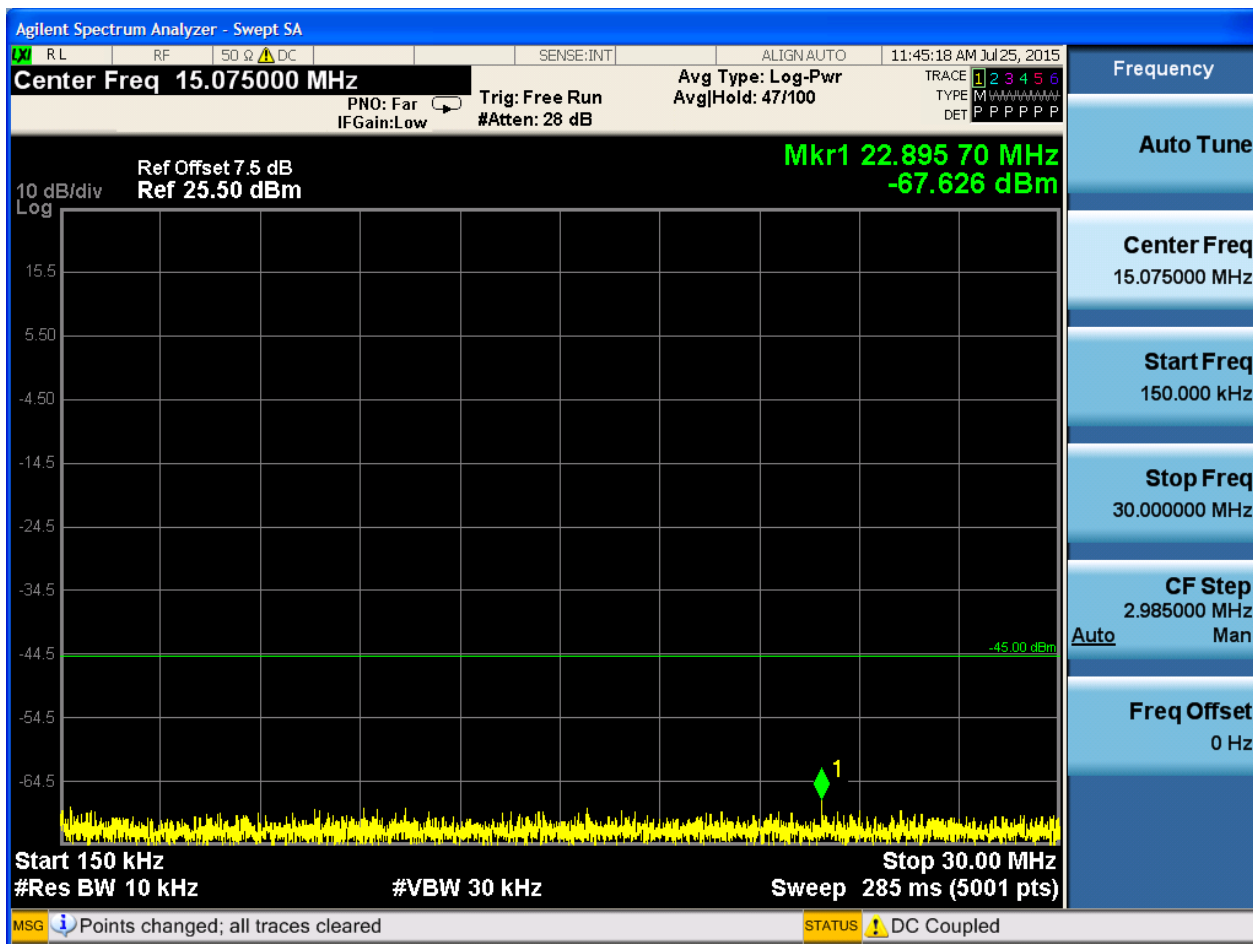




6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

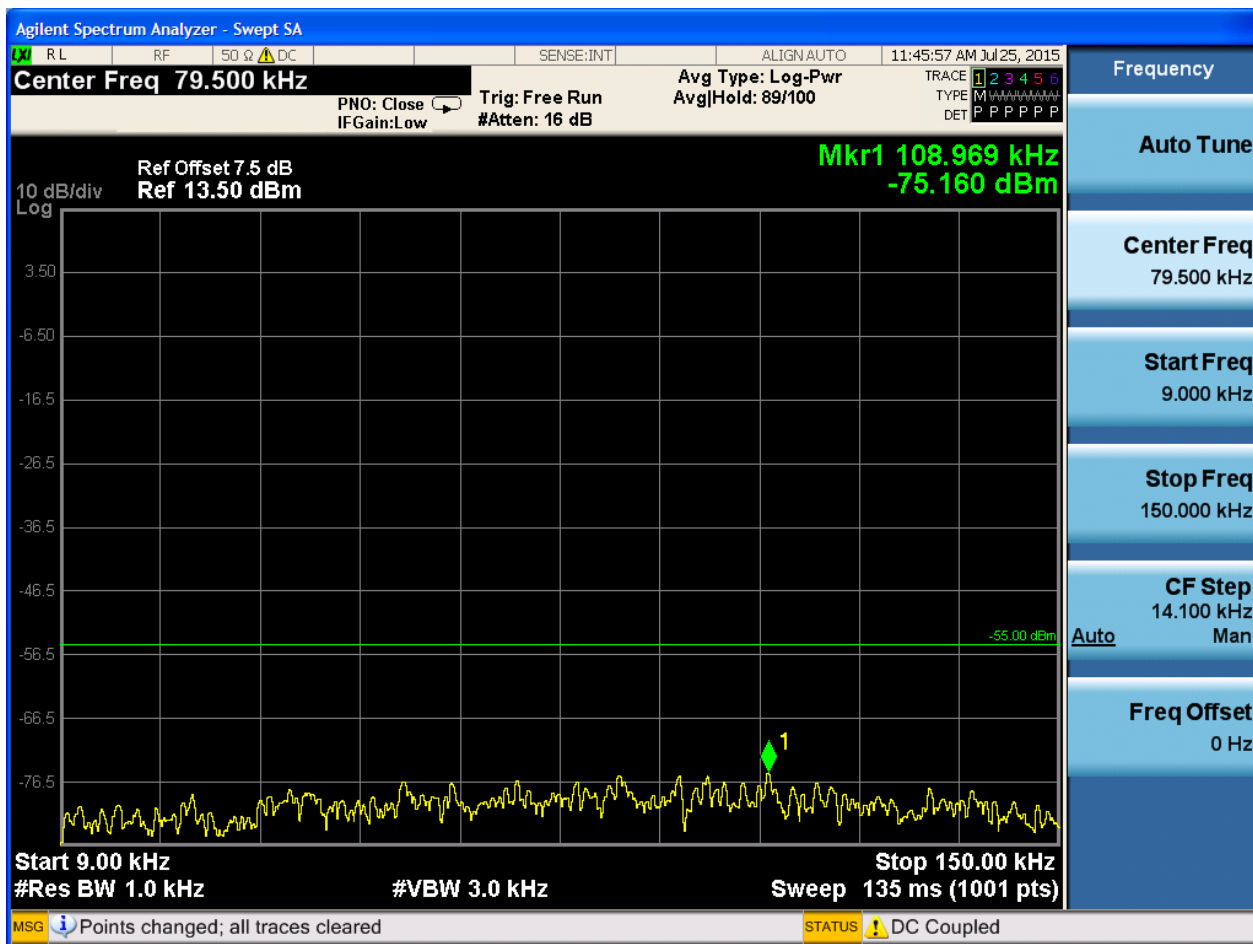


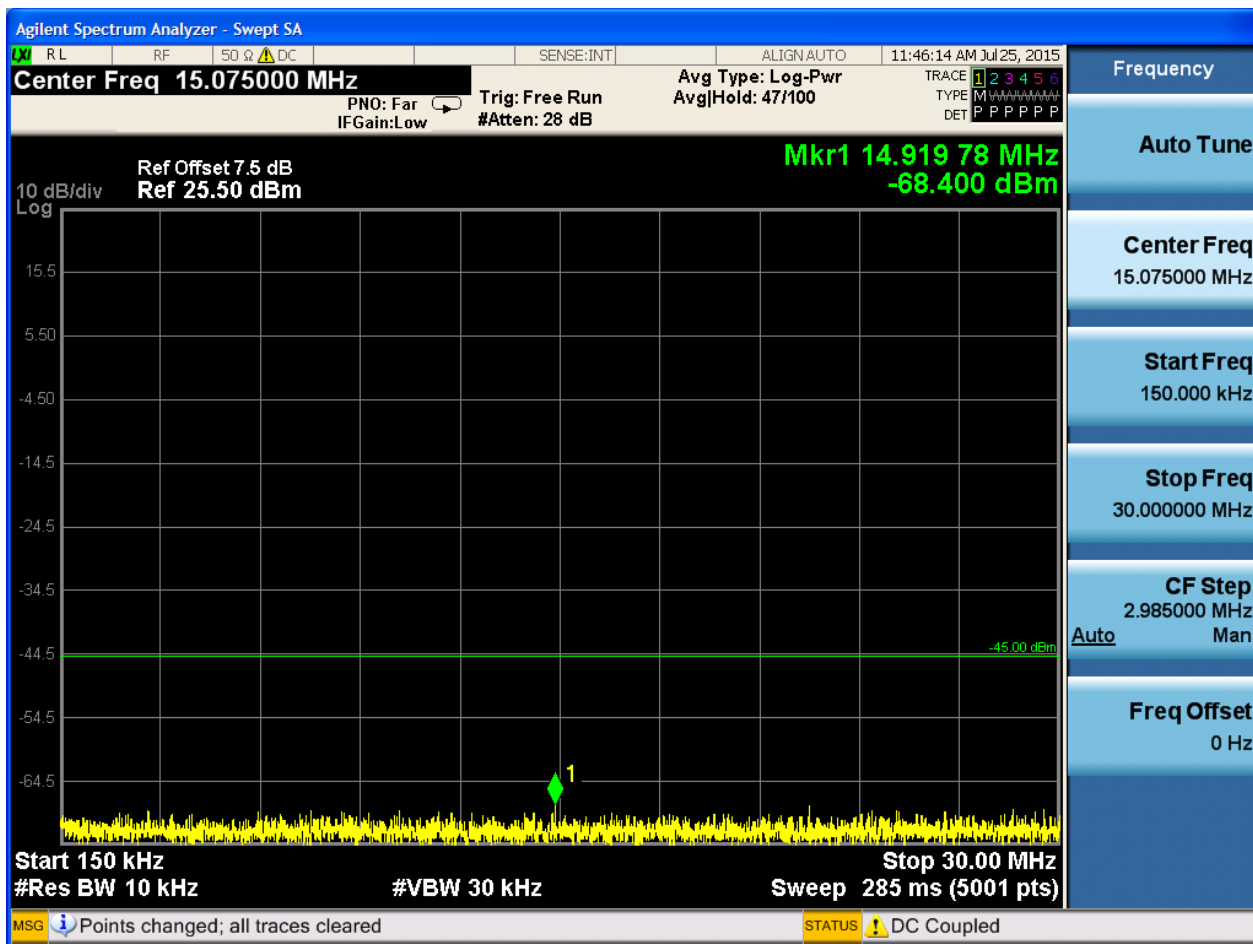


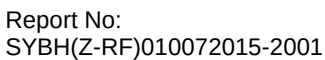


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



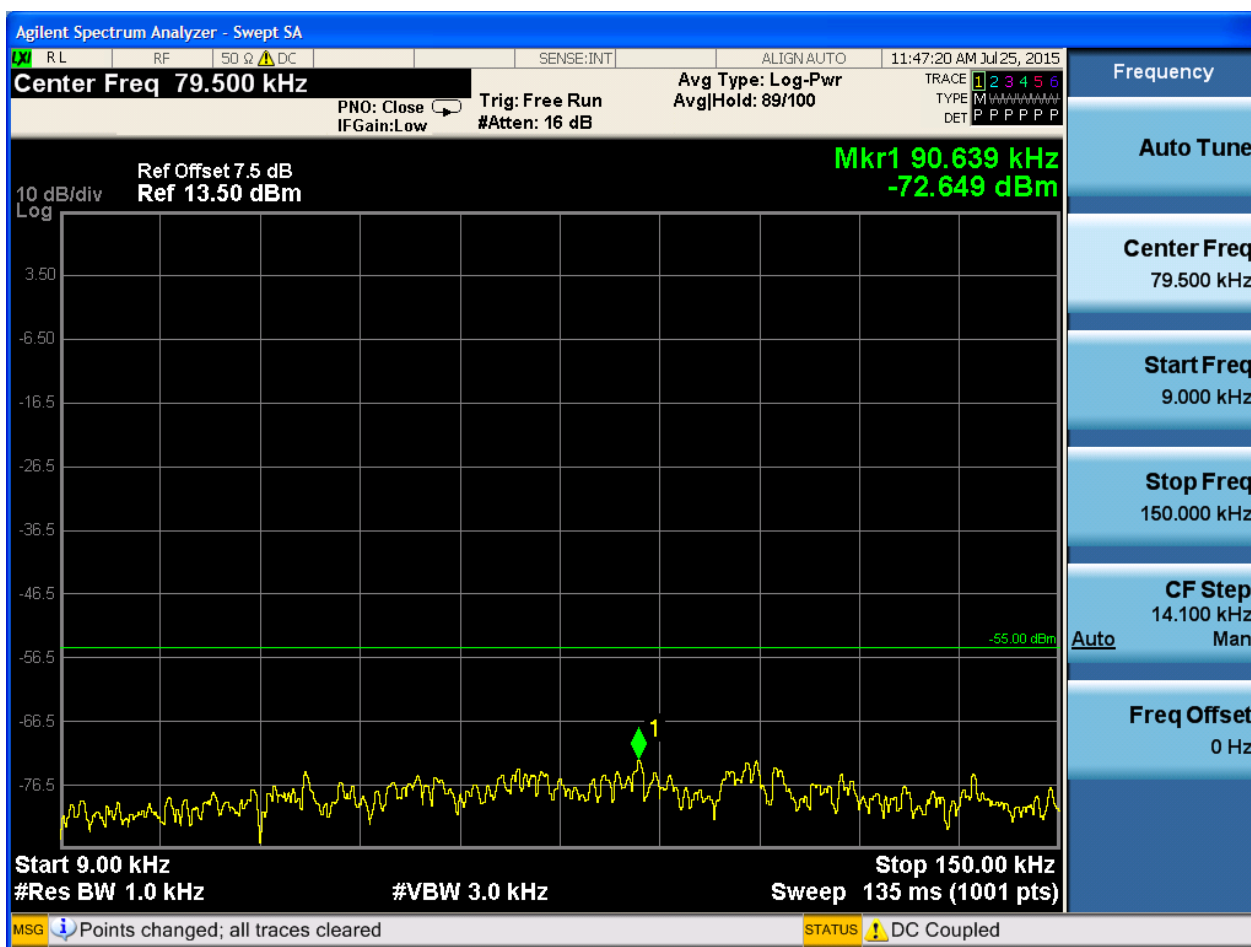


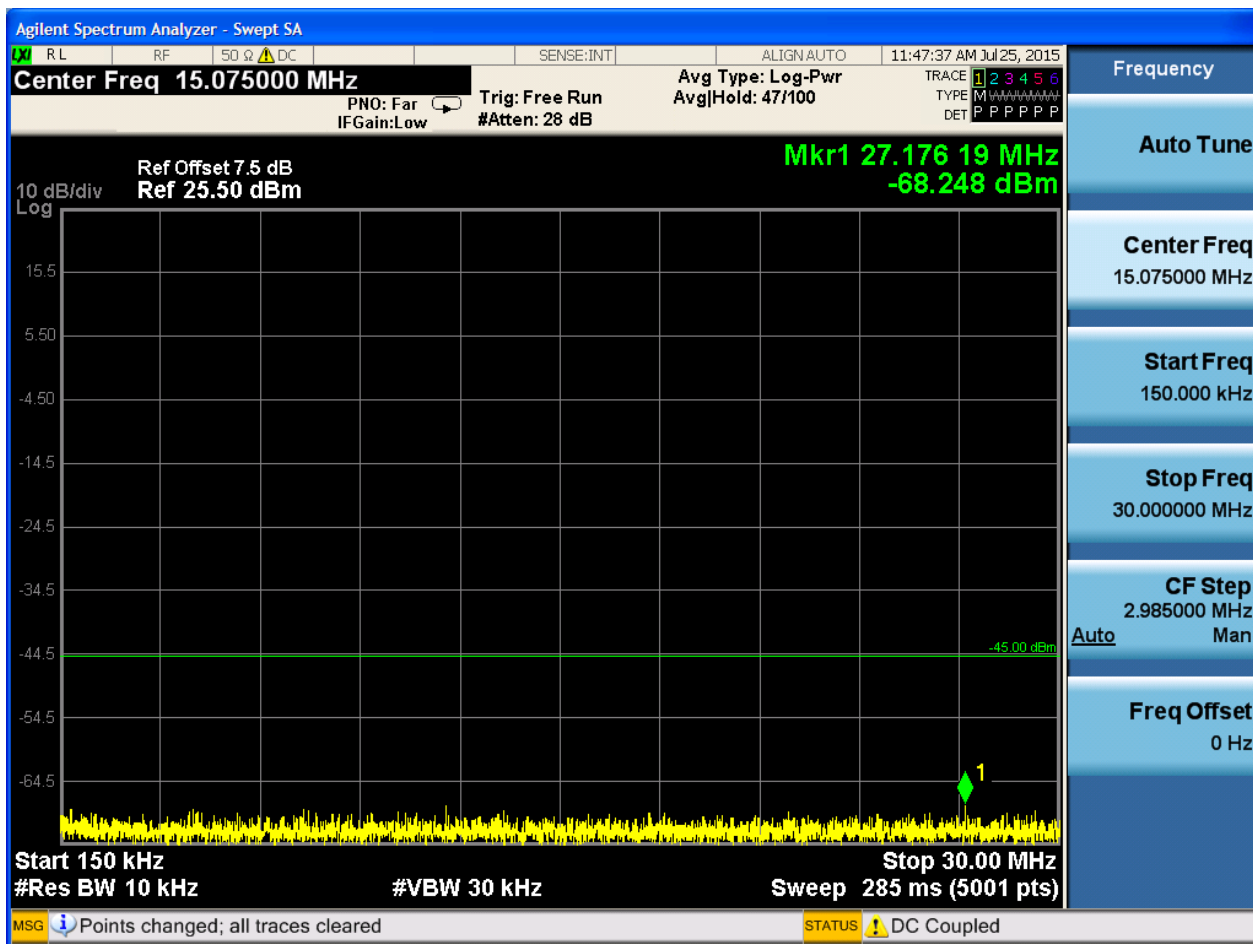


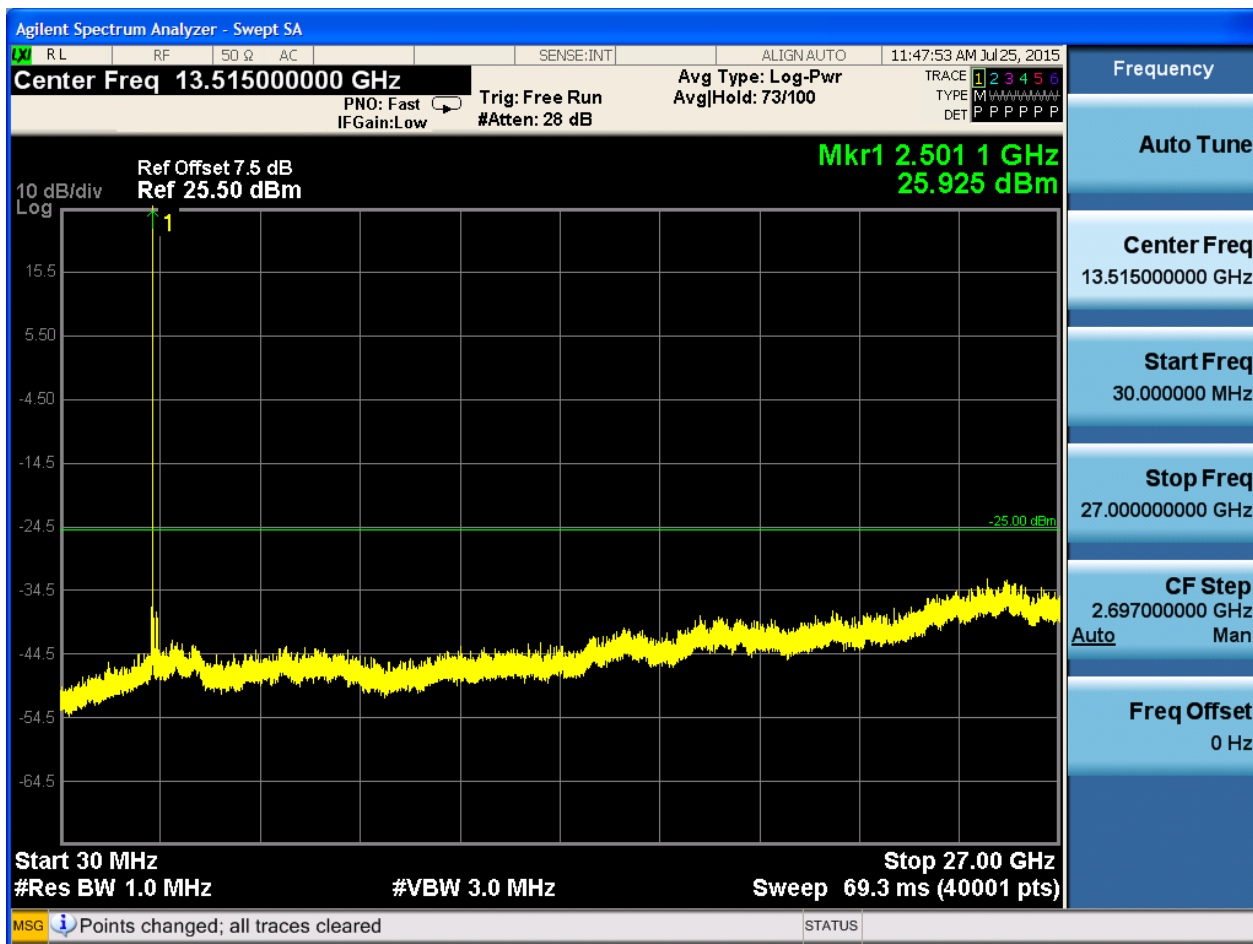
6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0

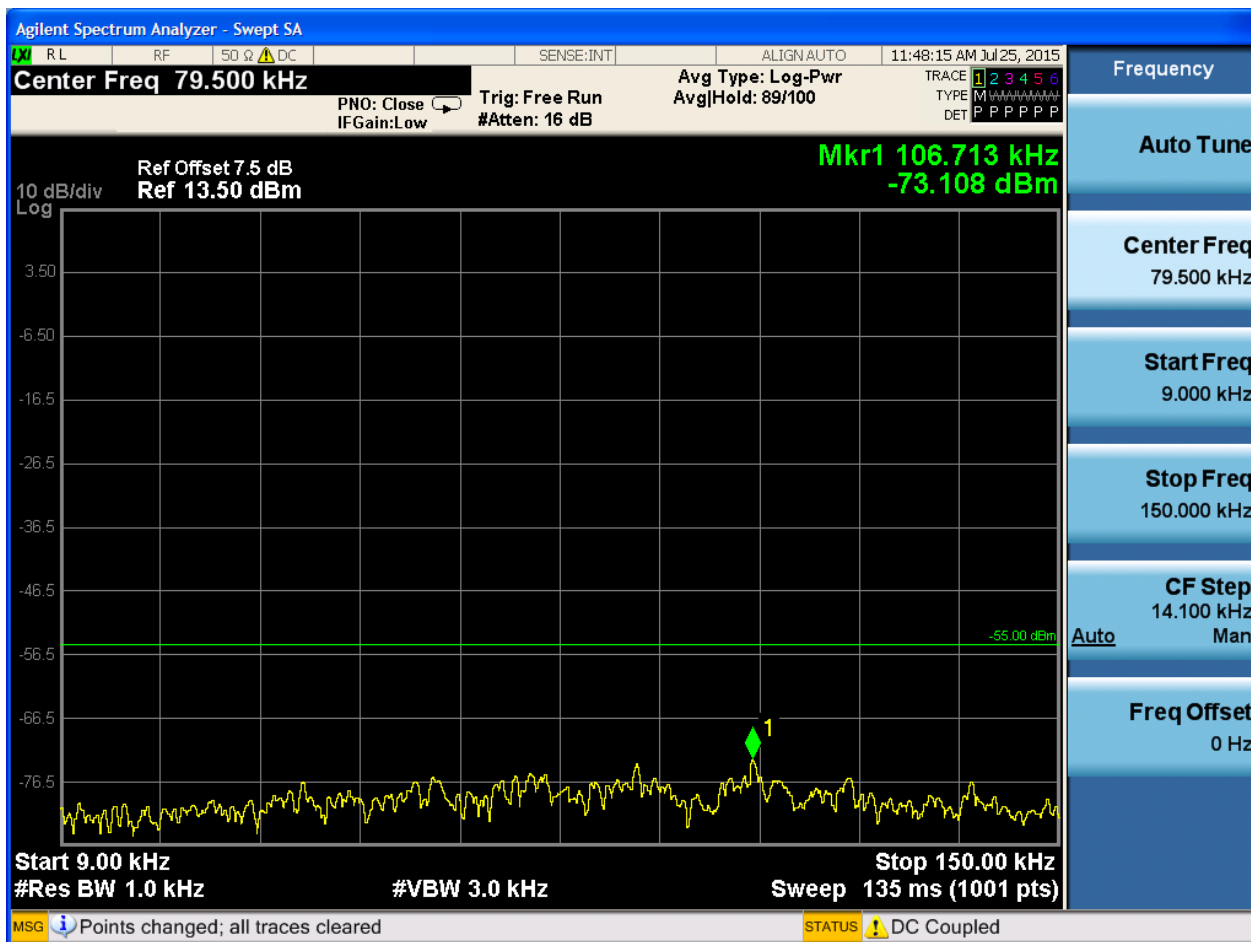






6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

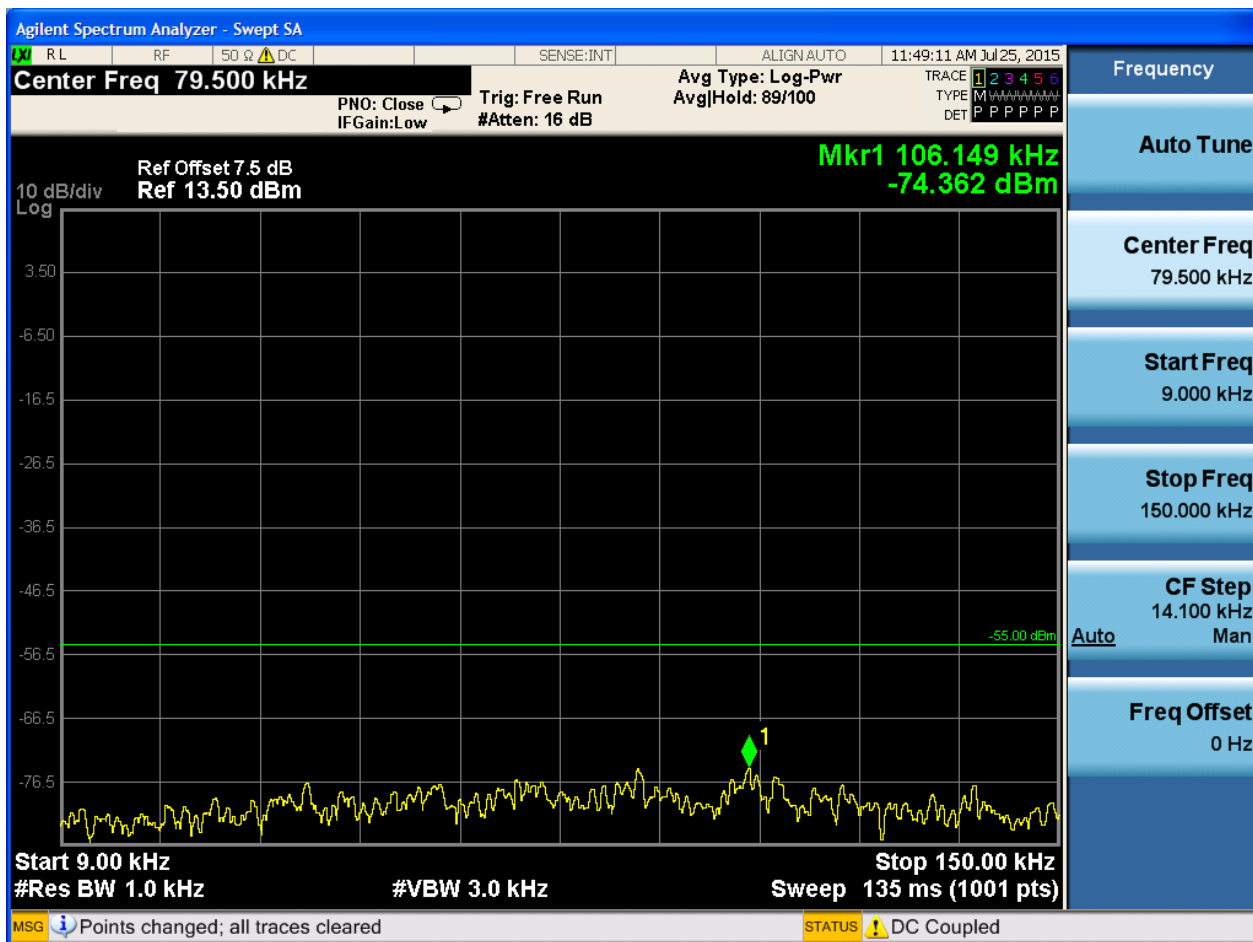


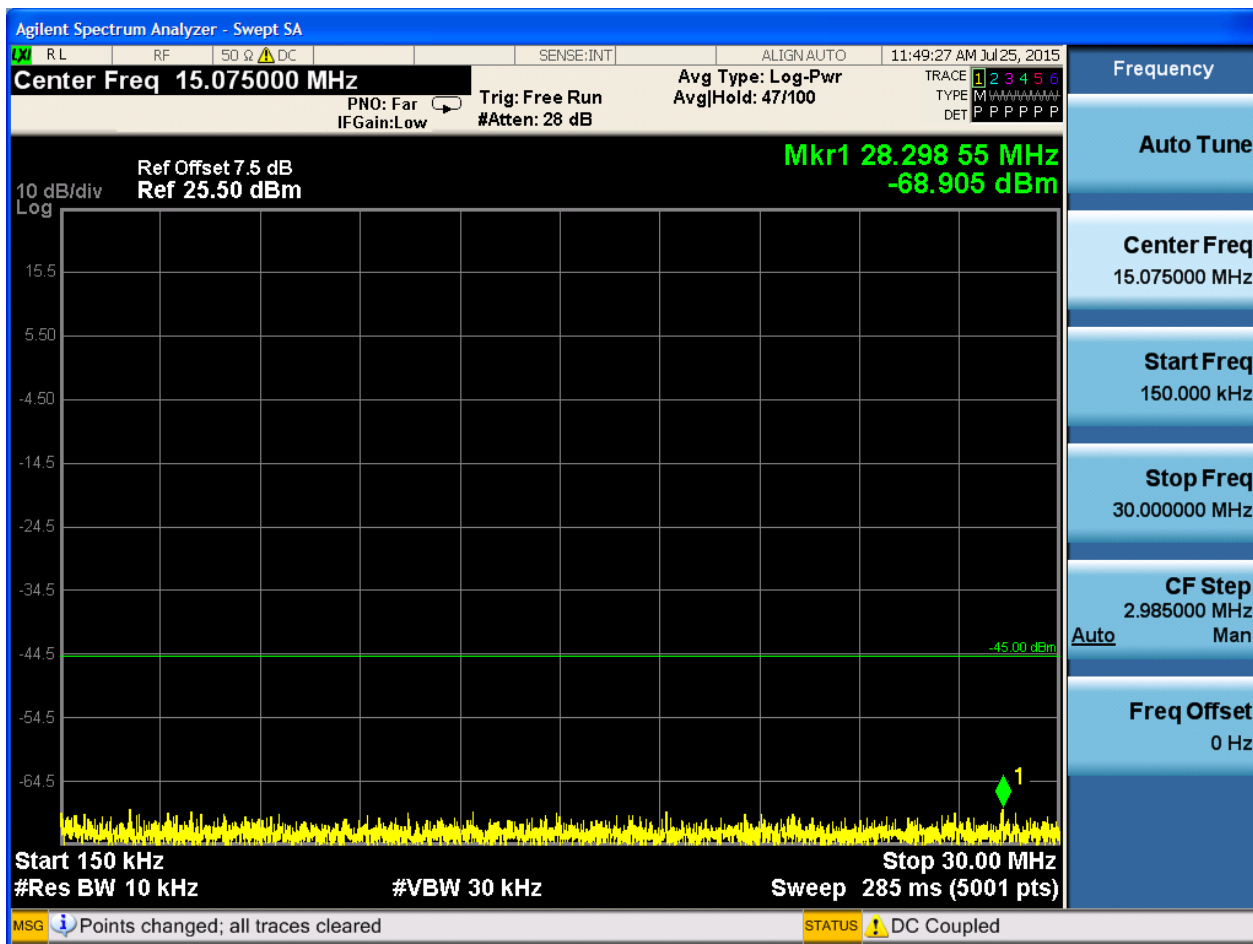




6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







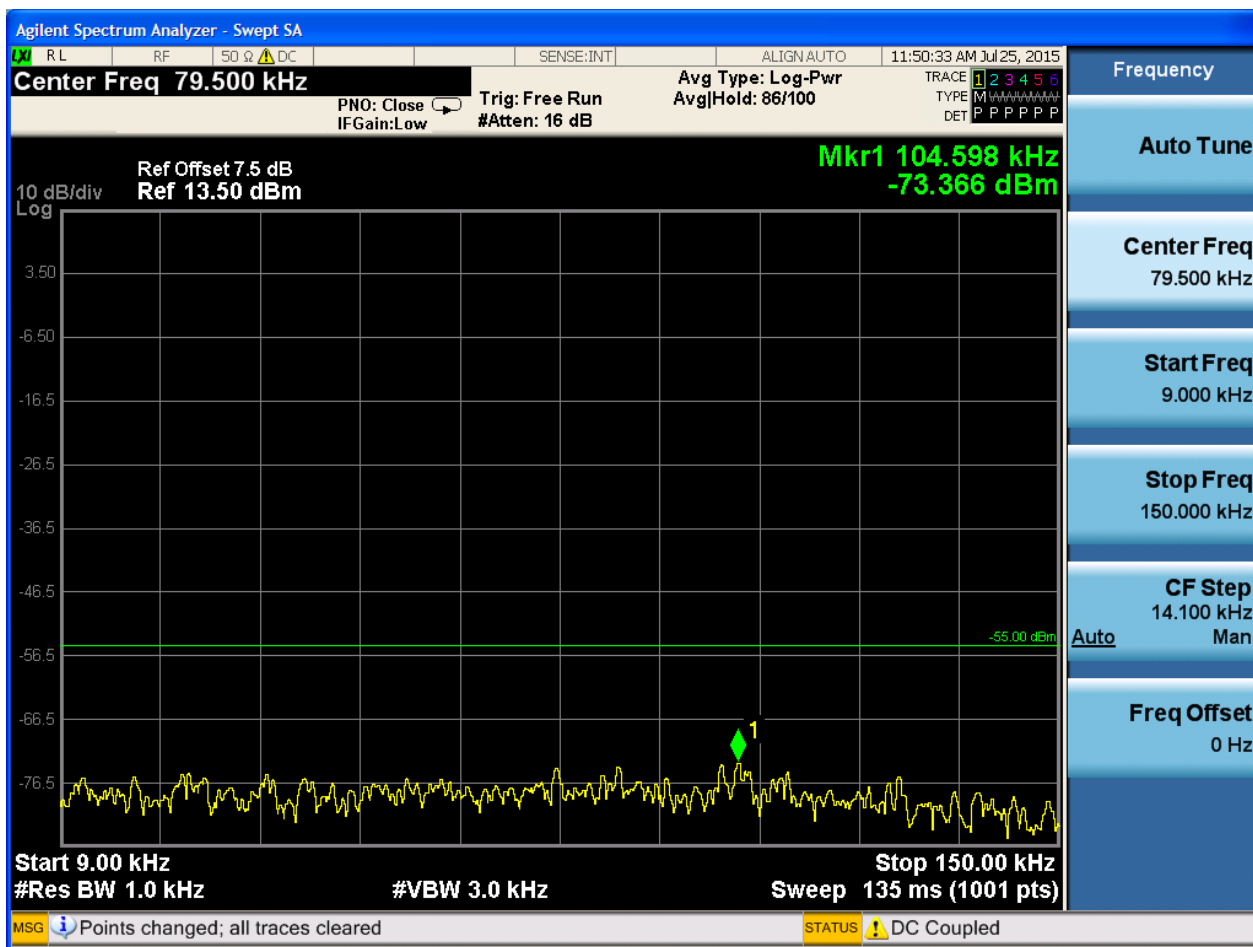


6.1.1.2 Test Mode = LTE/TM2

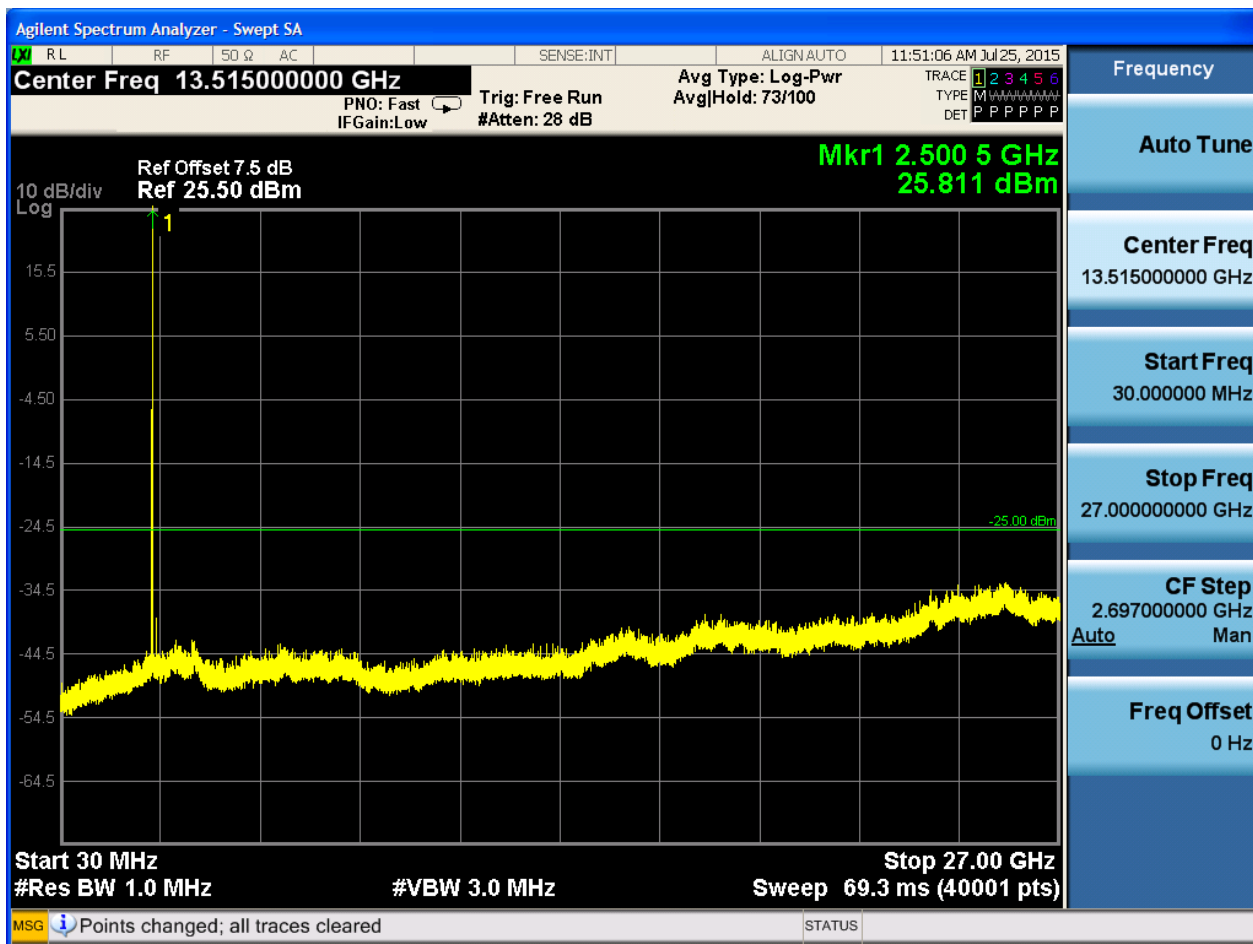
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

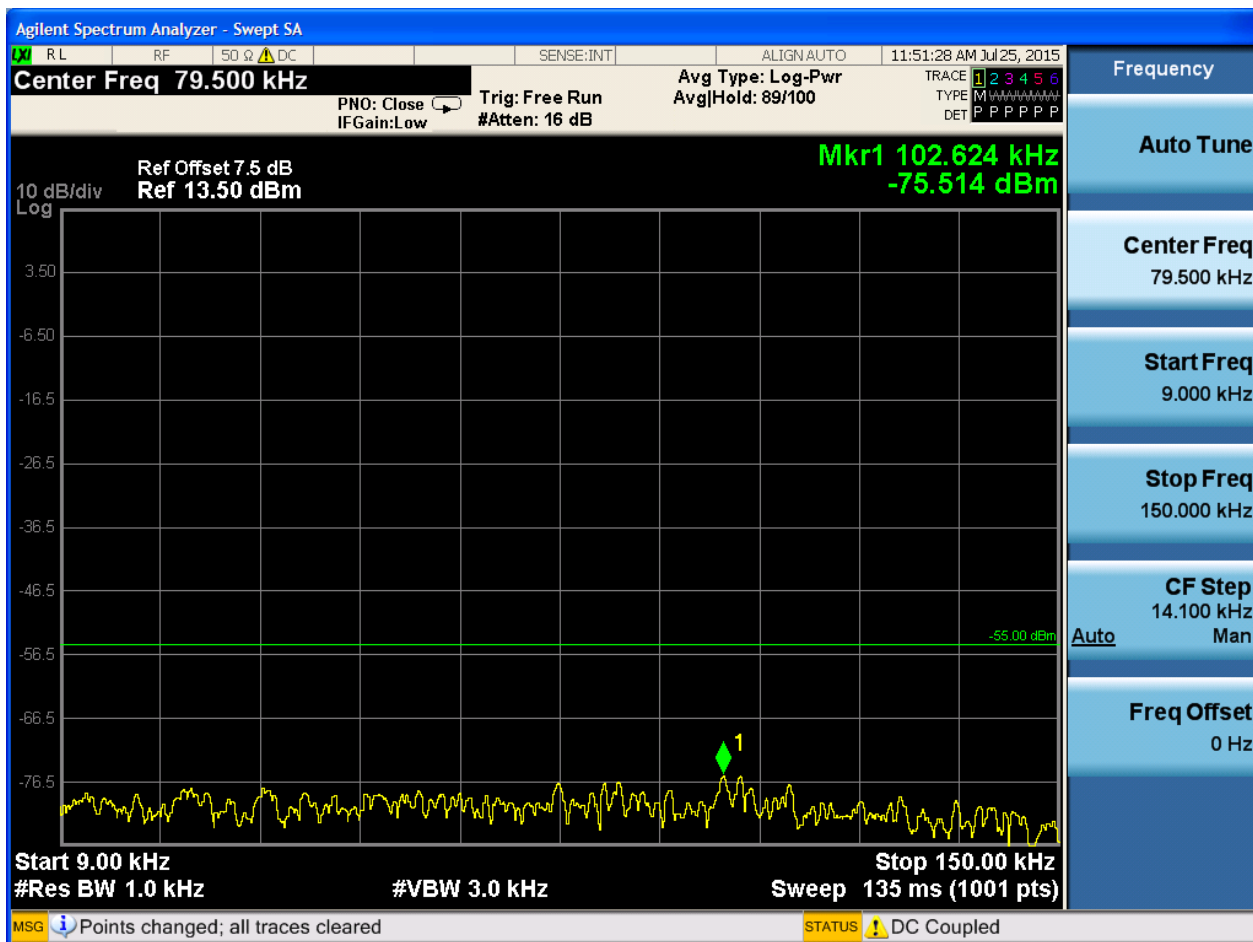


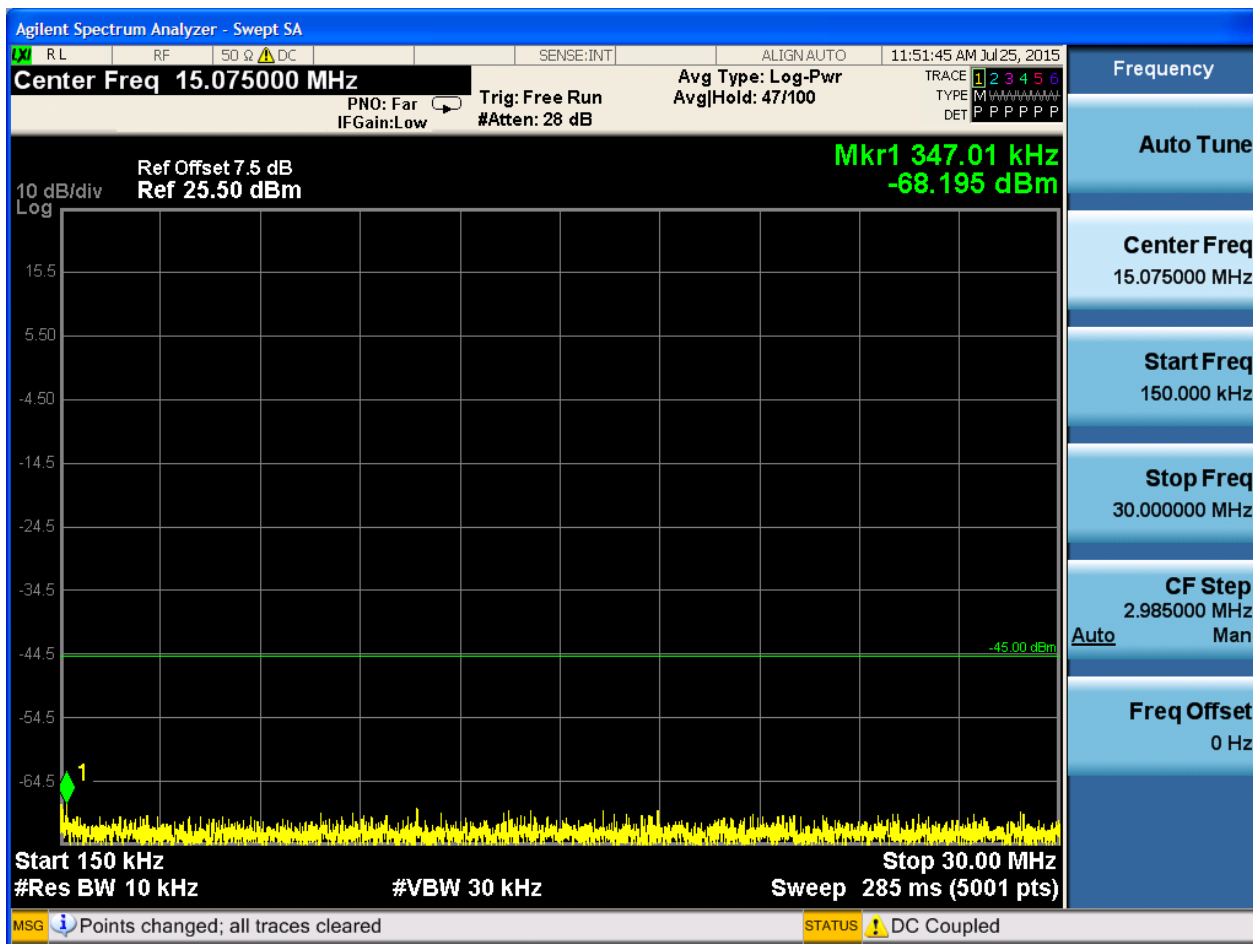


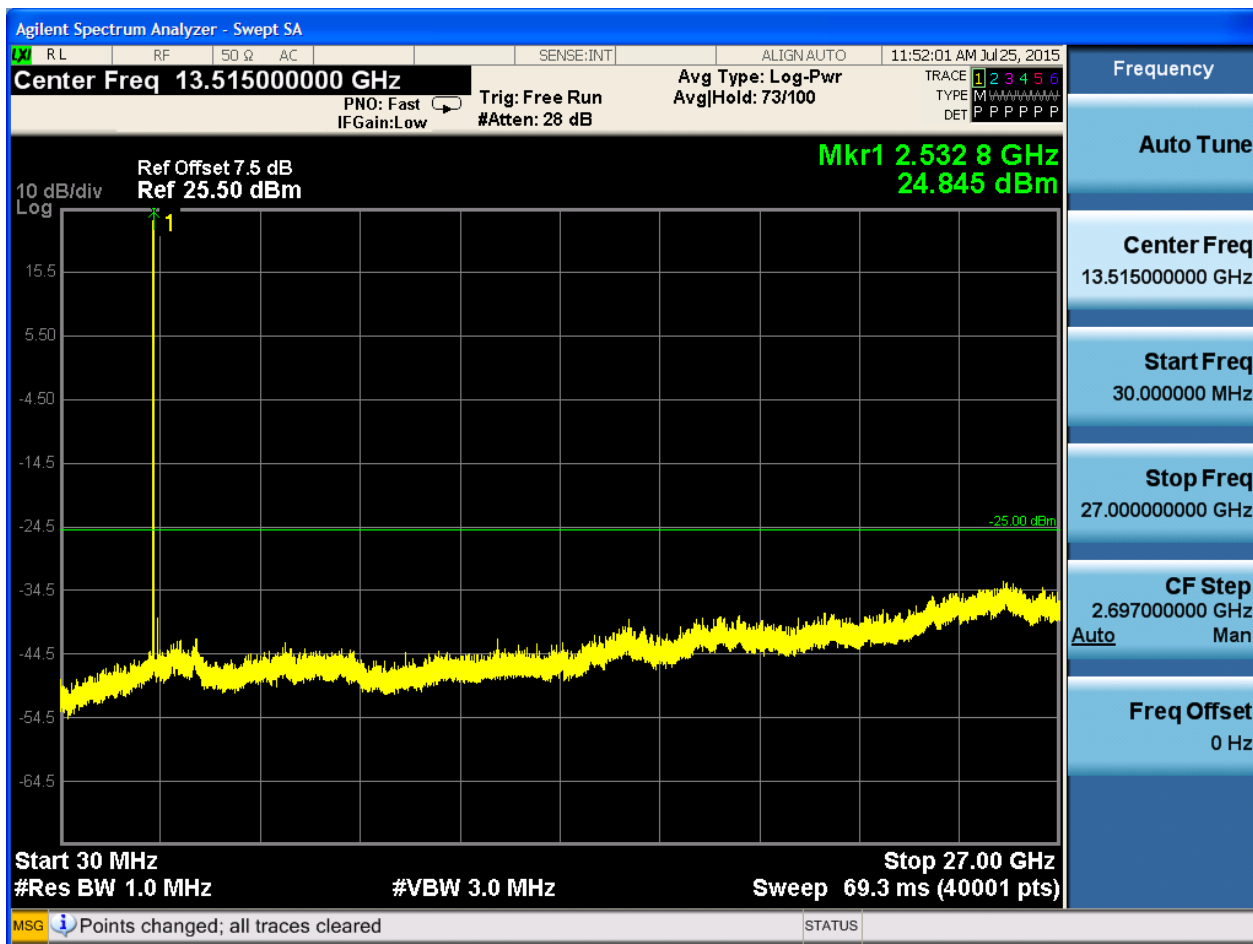


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

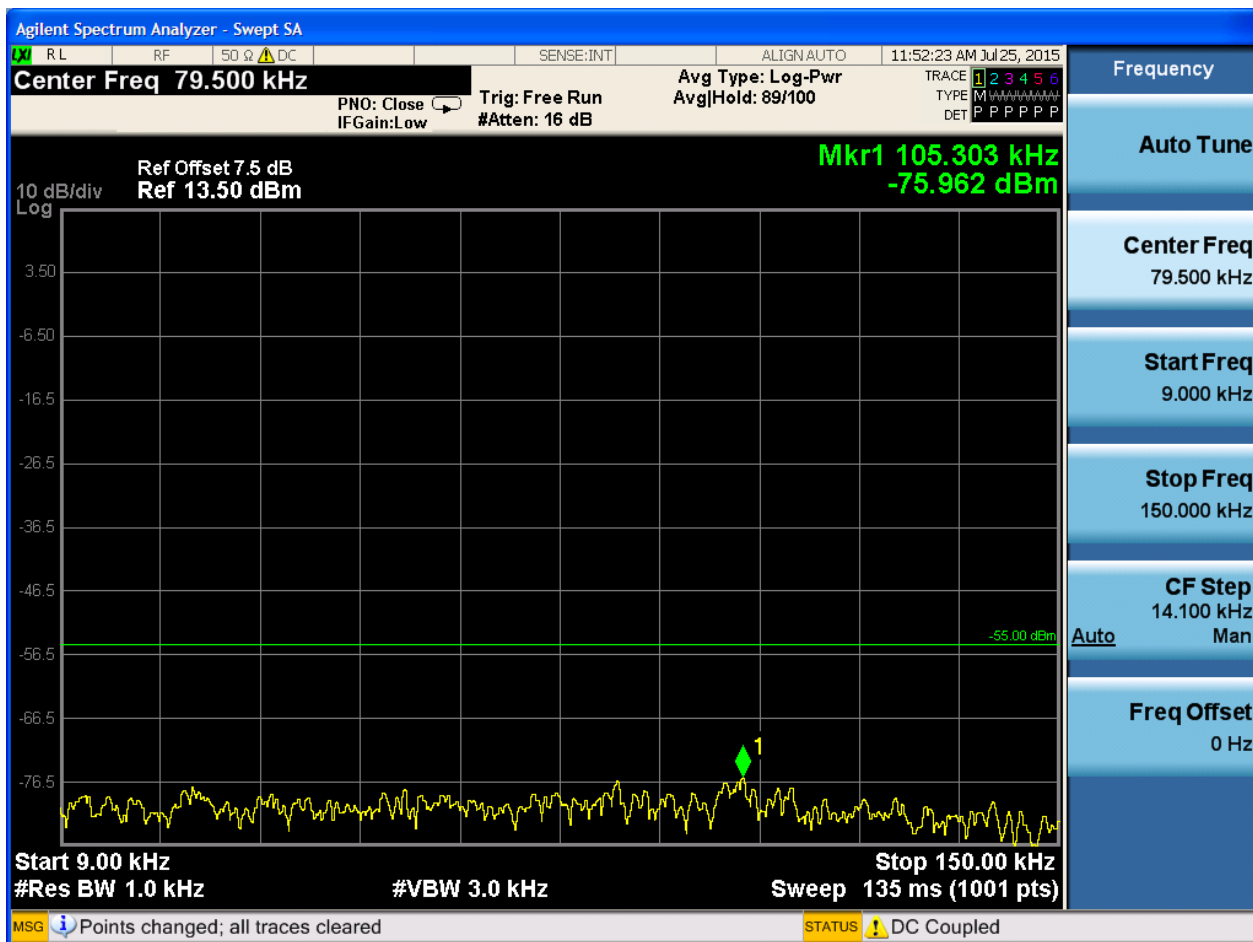


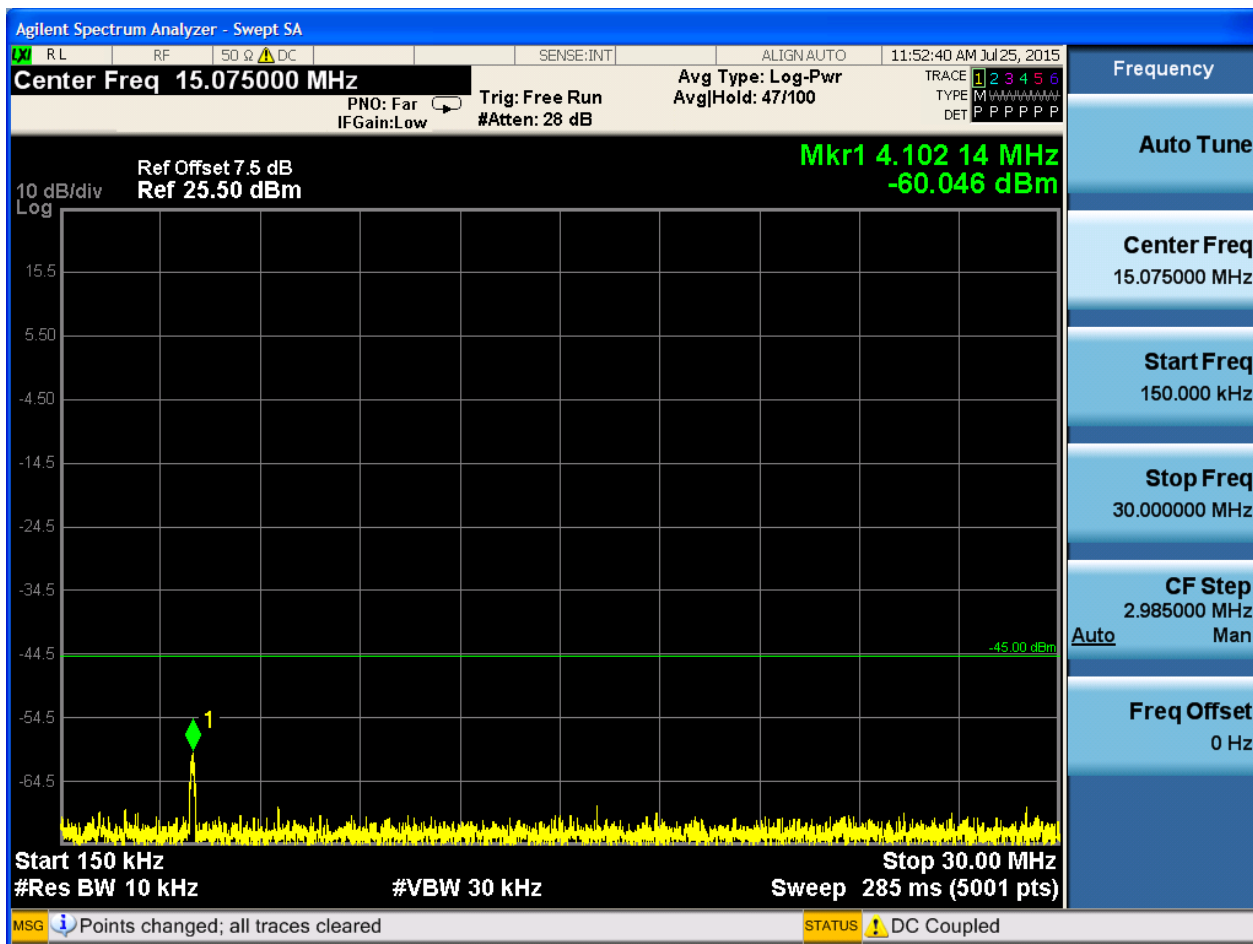


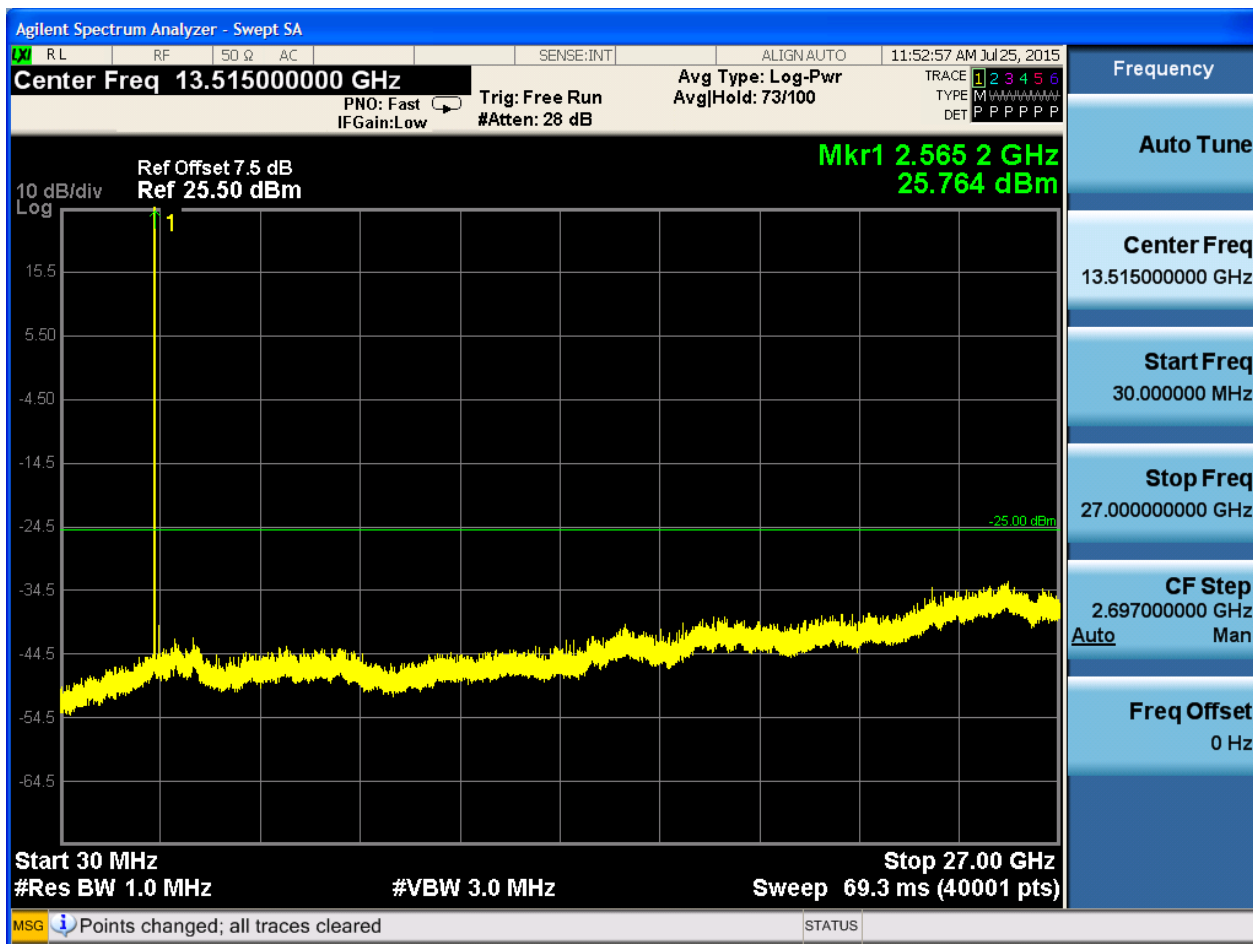


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



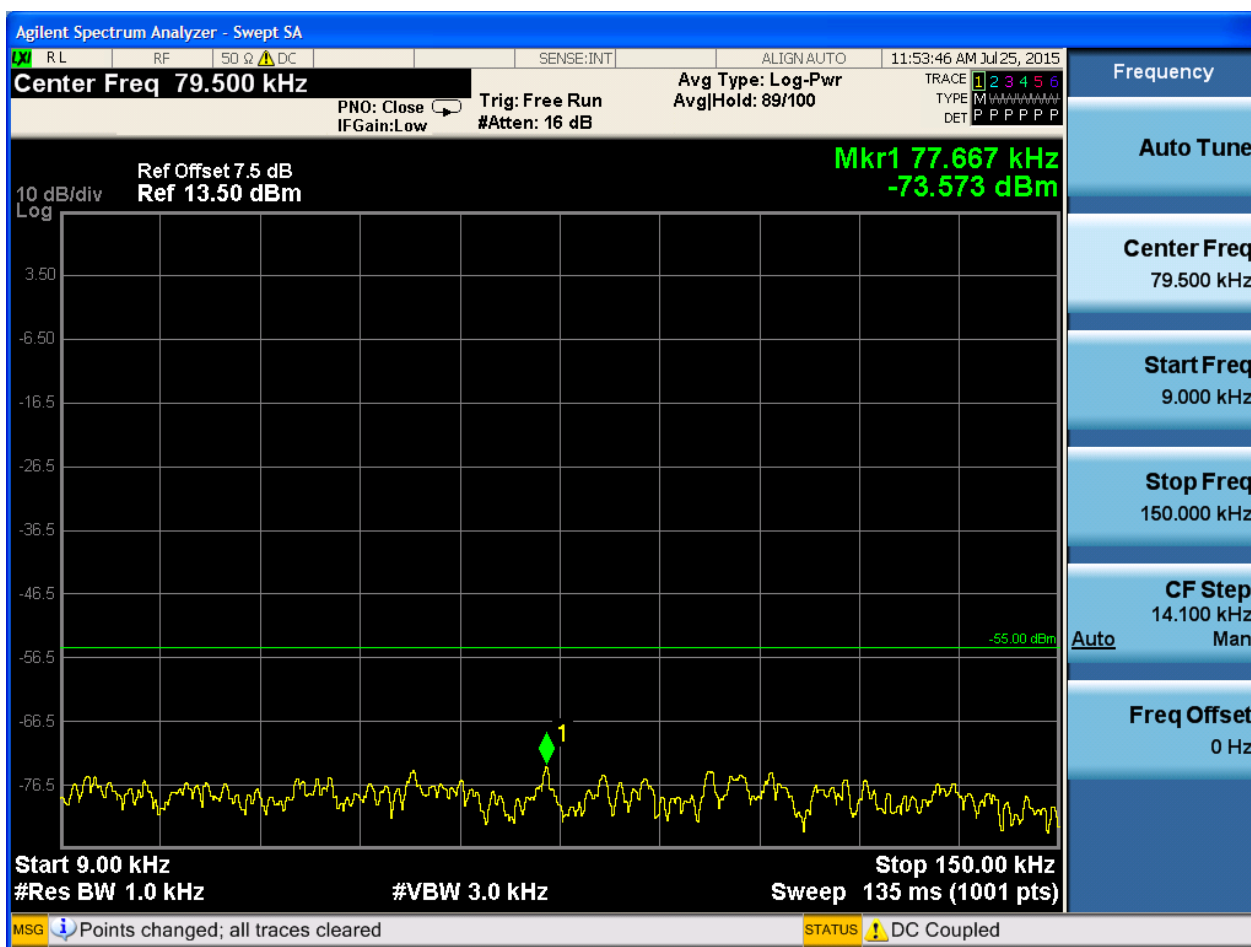




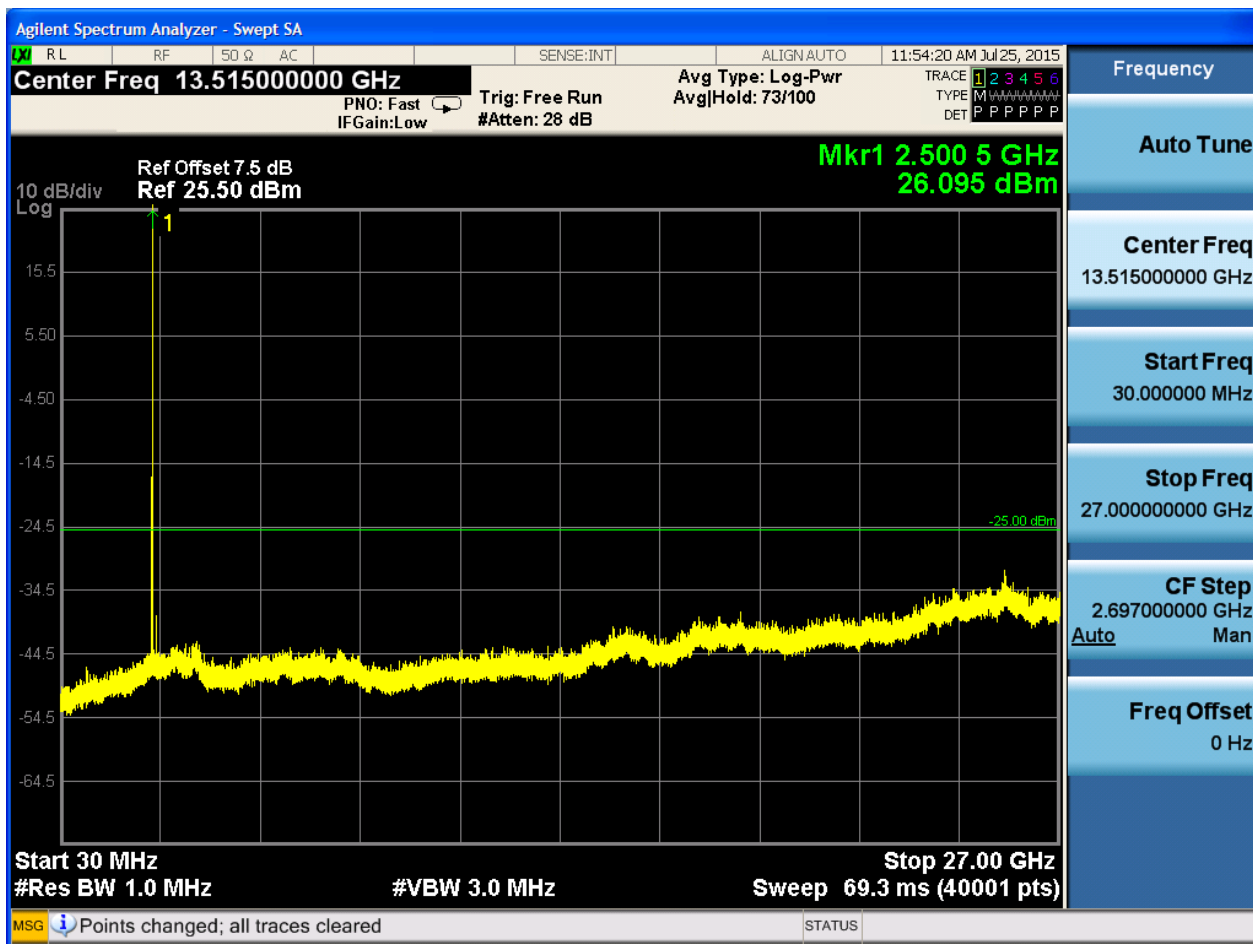
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0

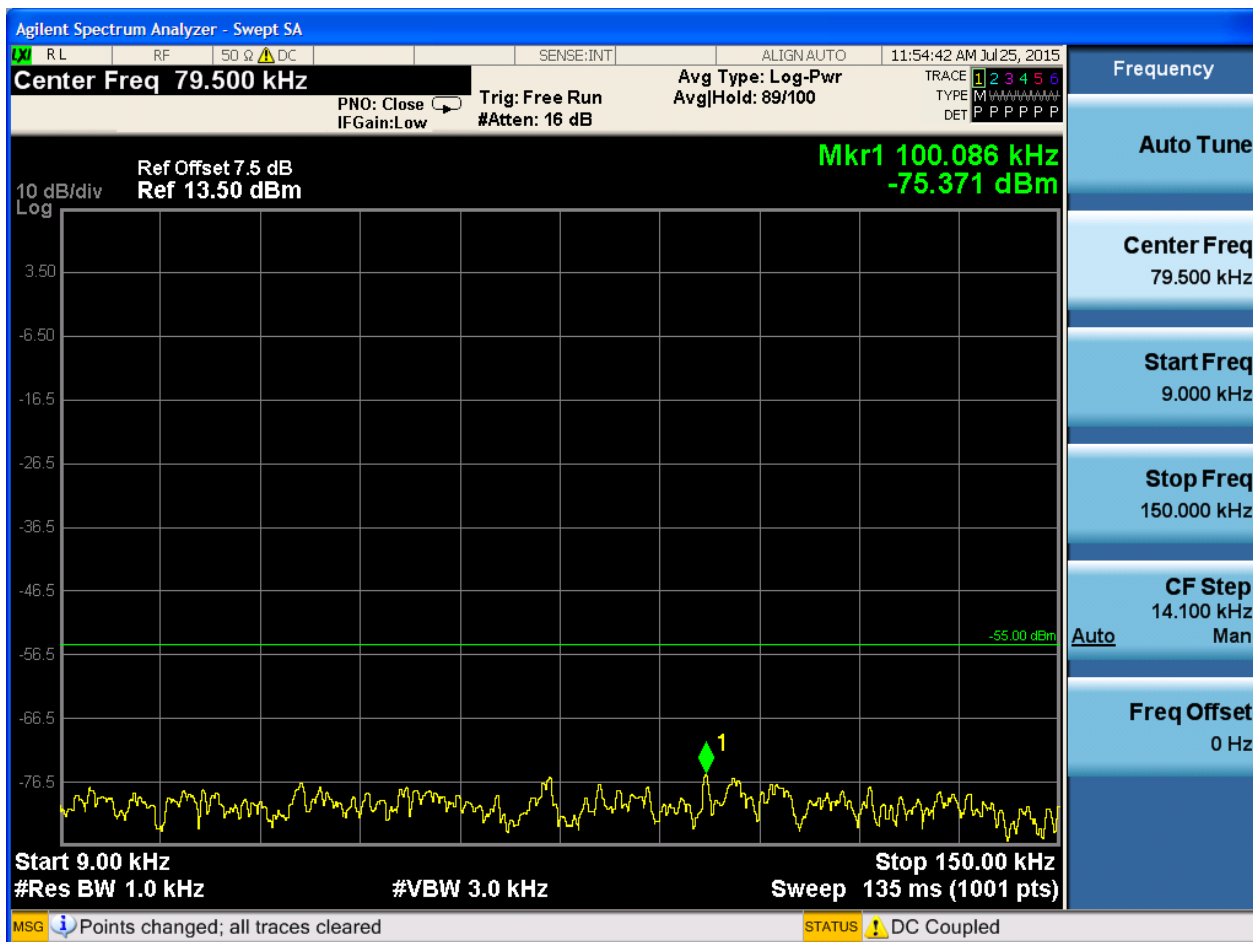


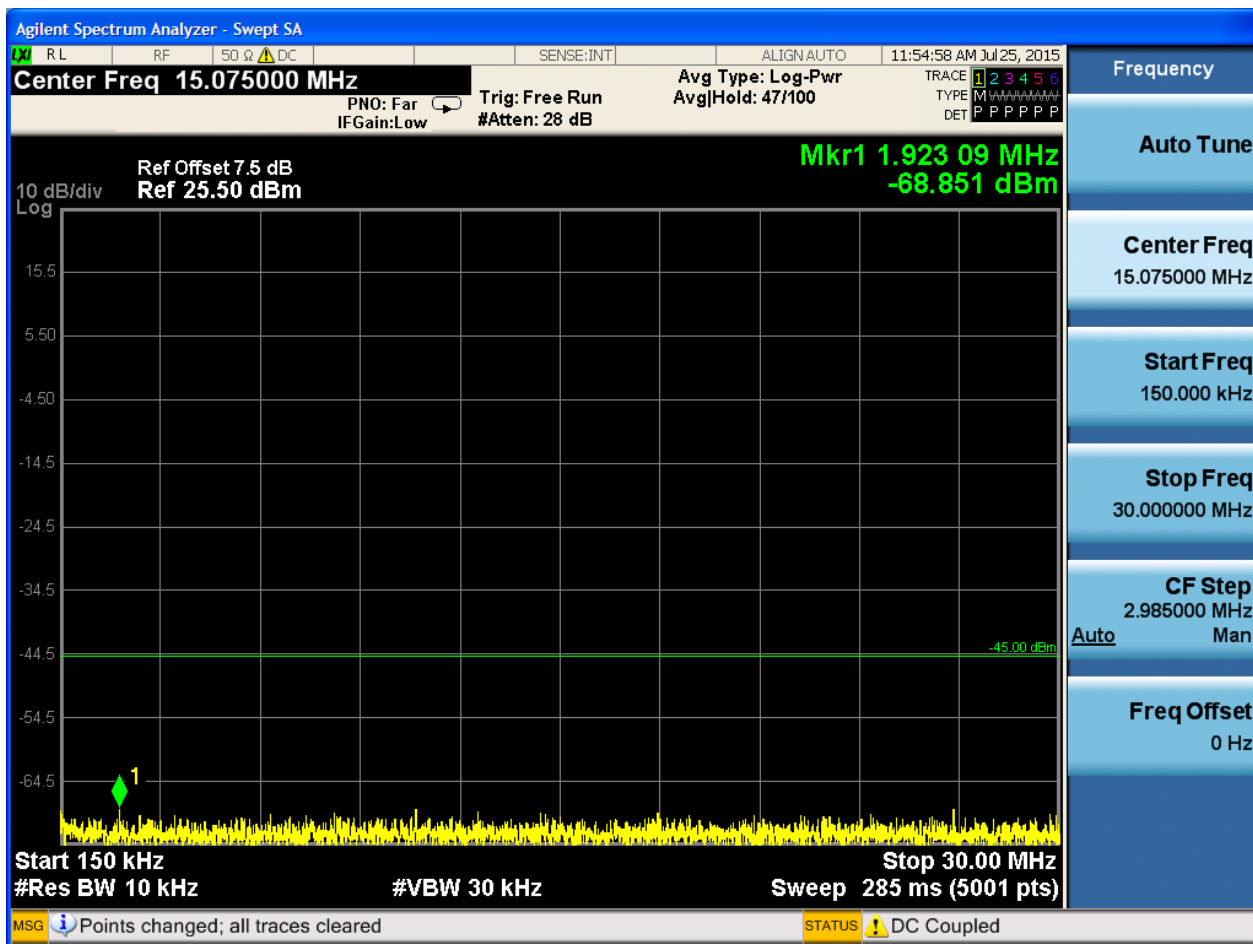




6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

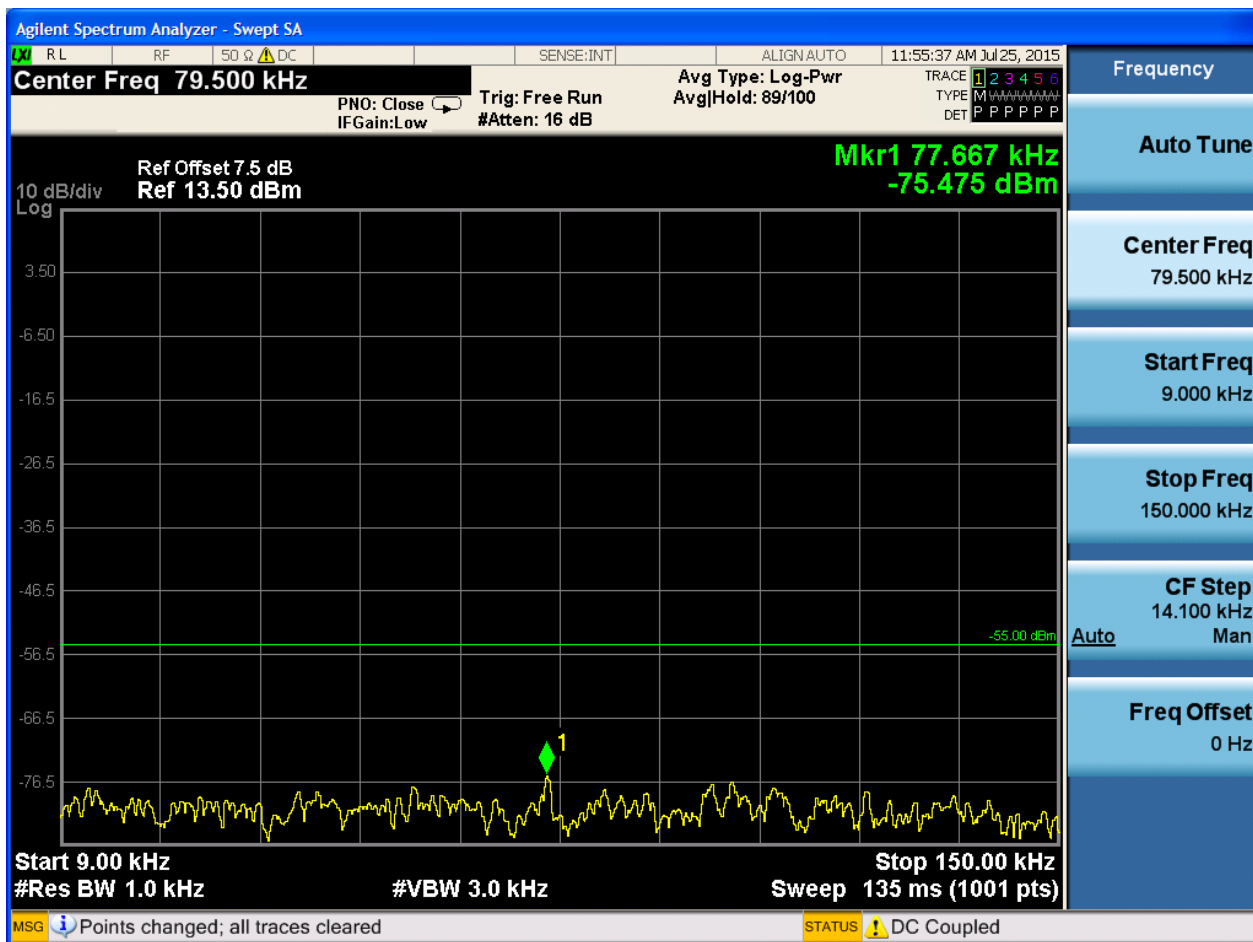




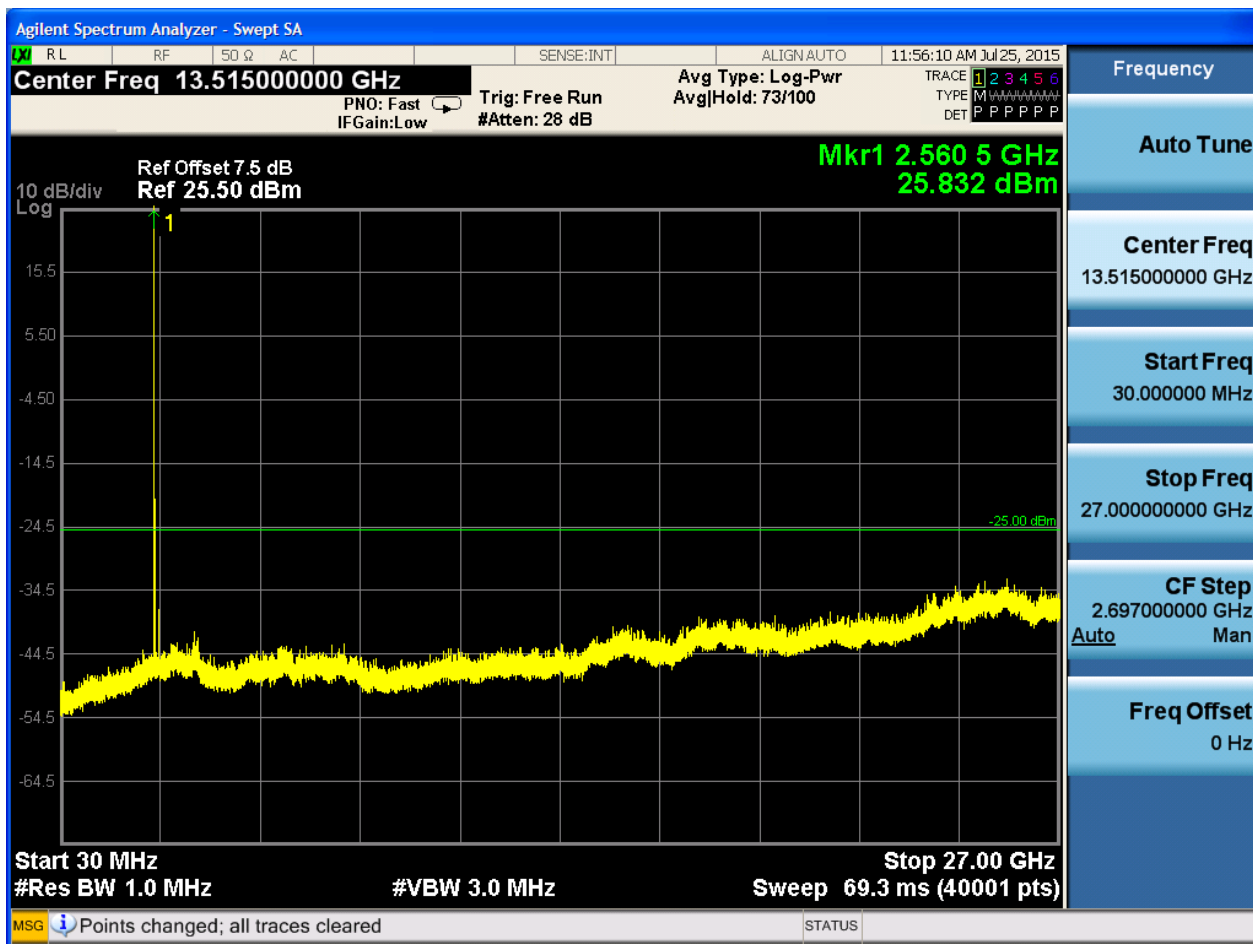


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



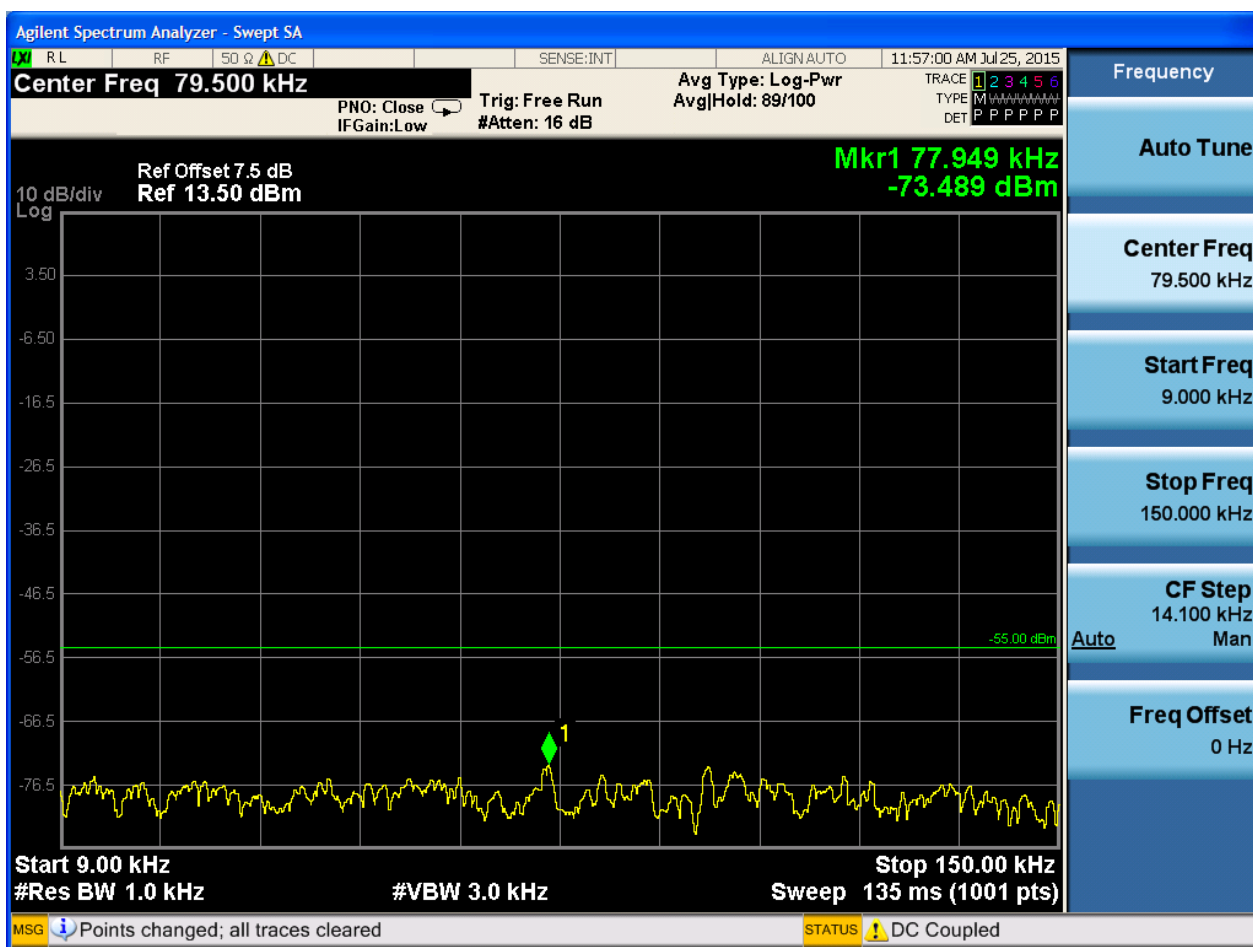


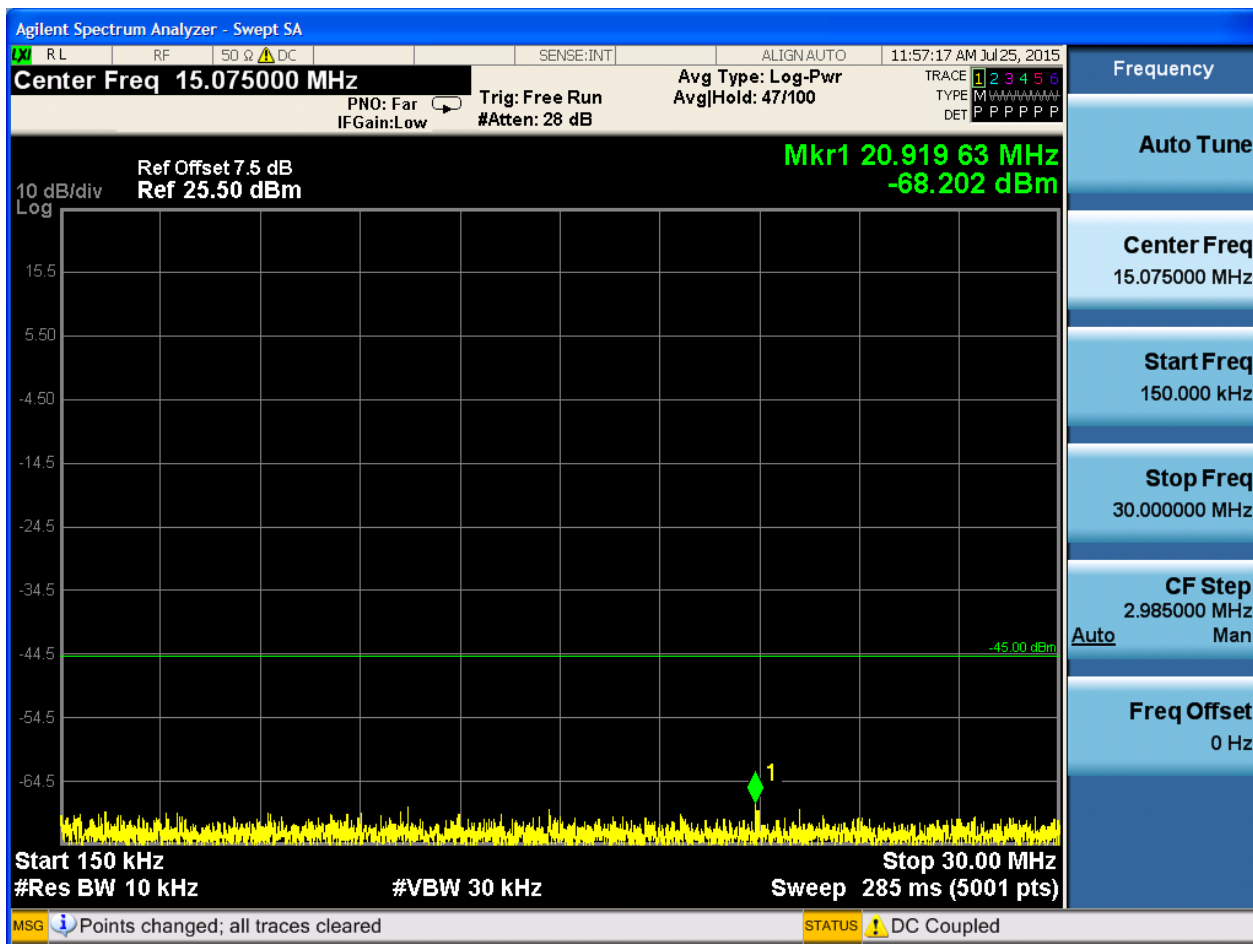


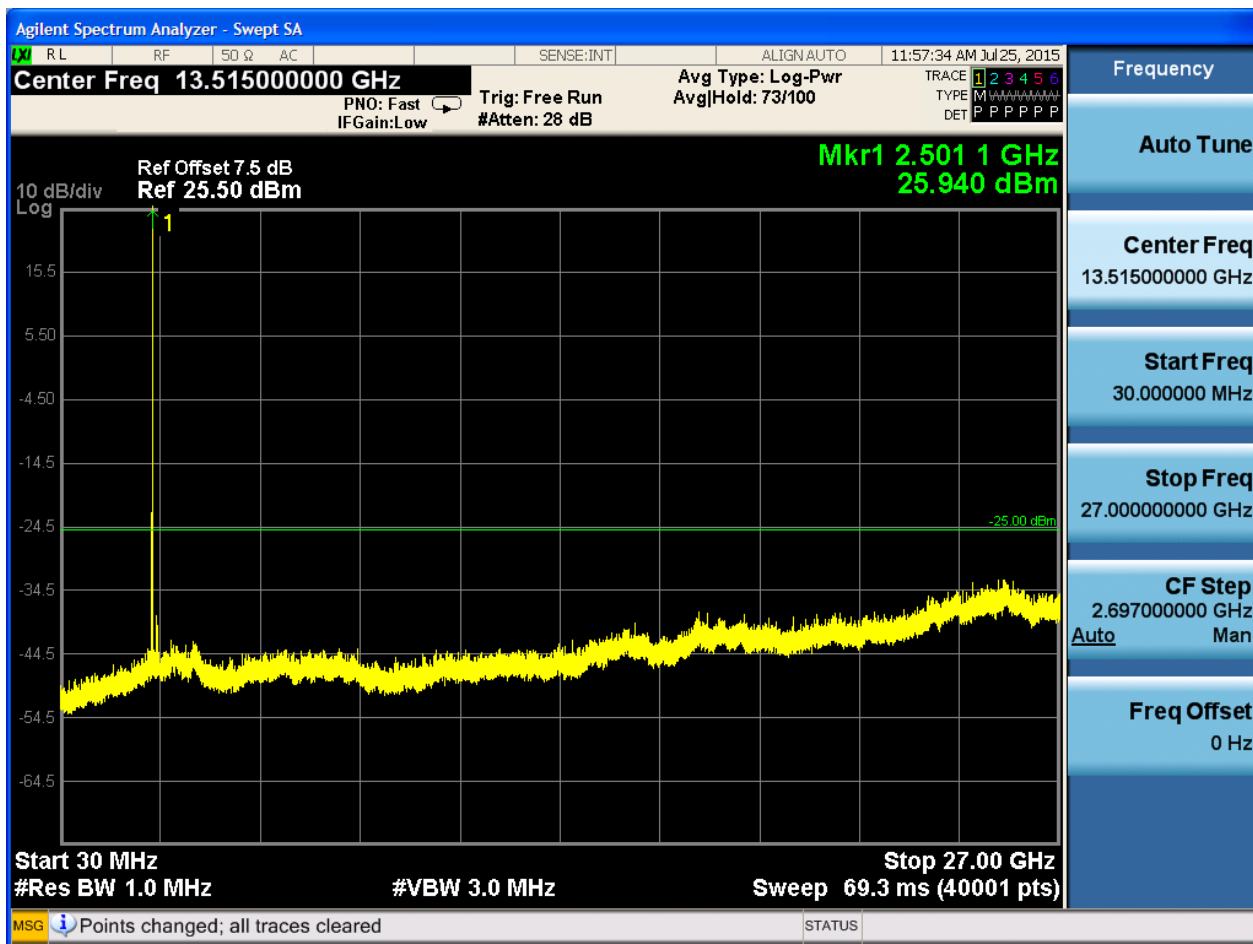
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

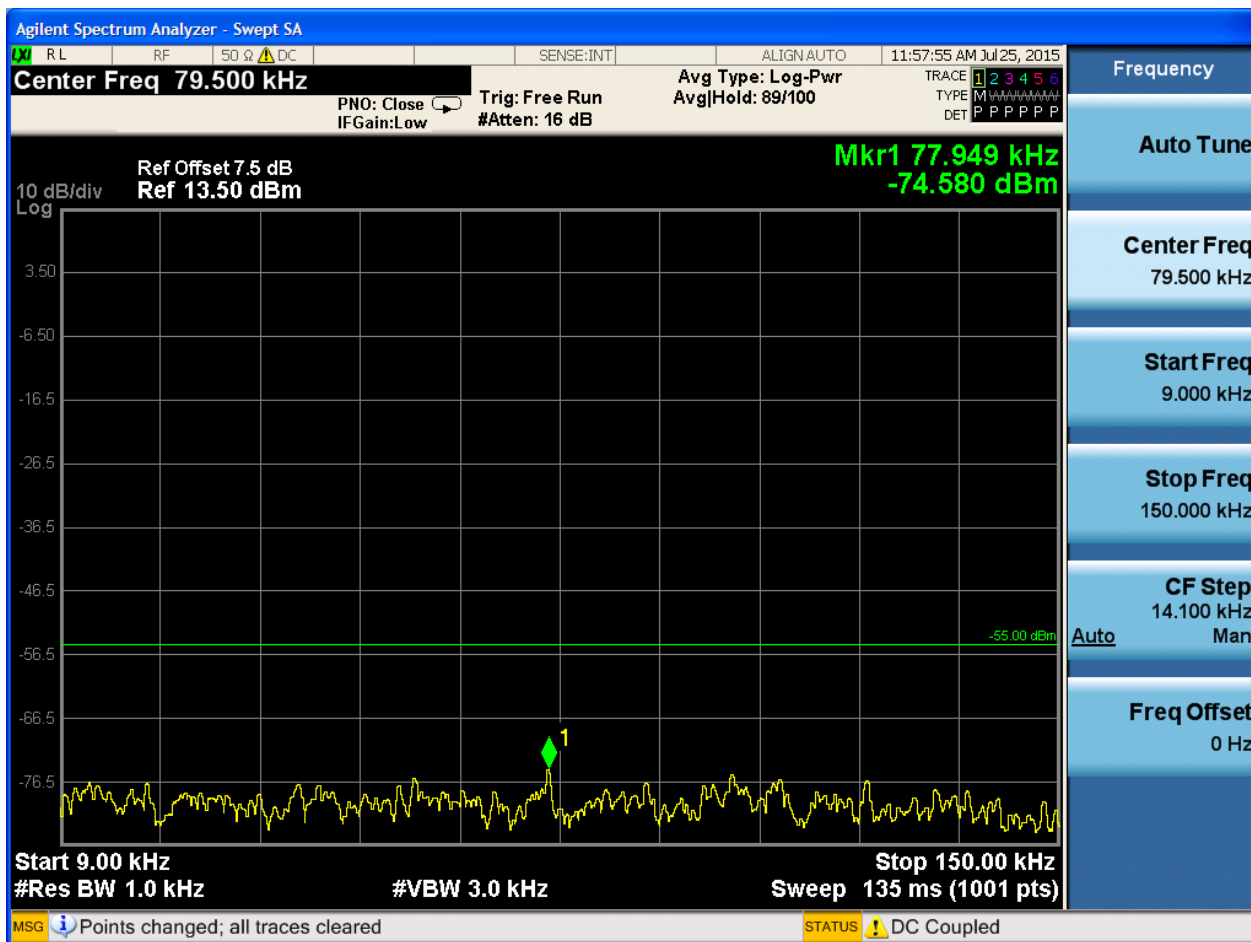


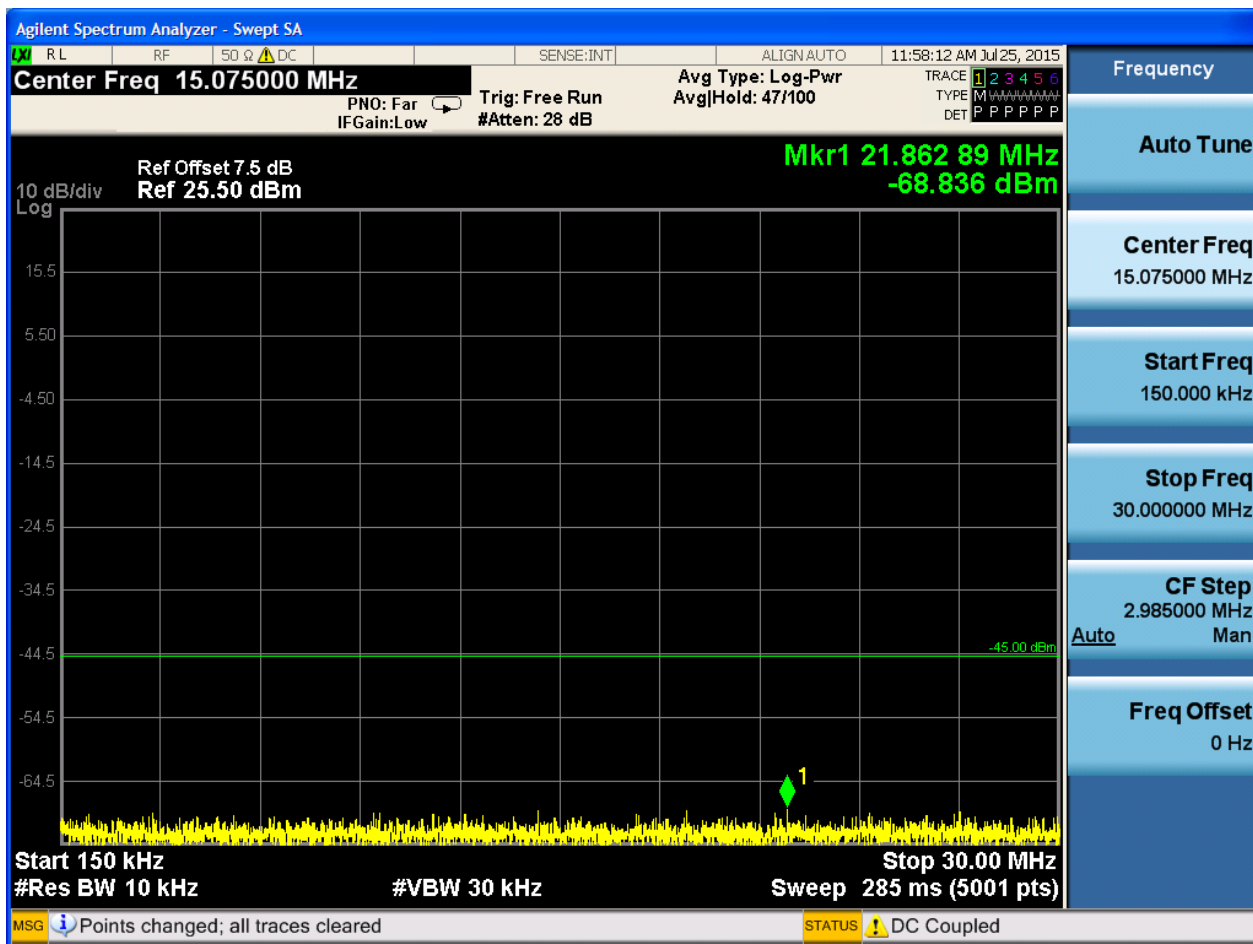




6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

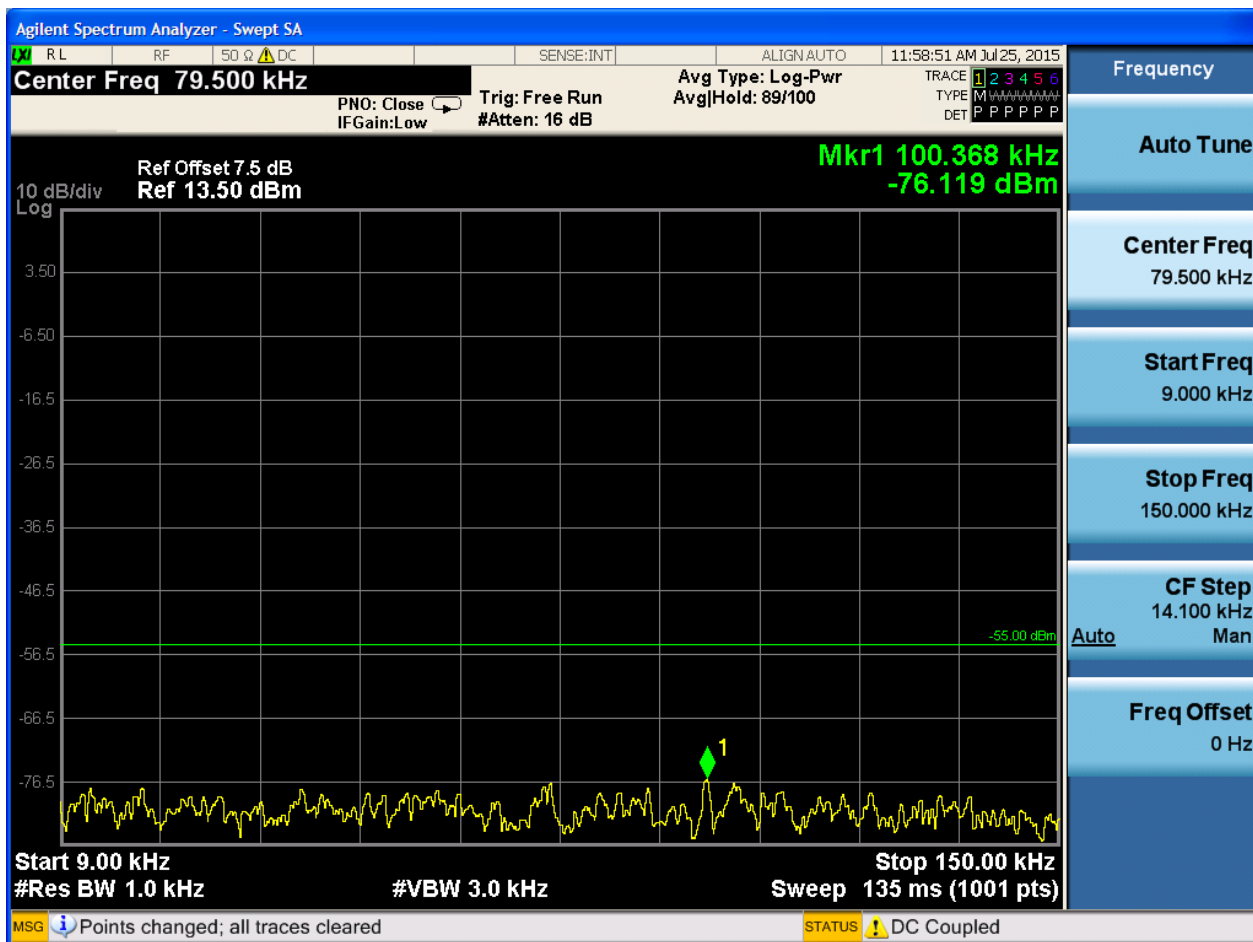




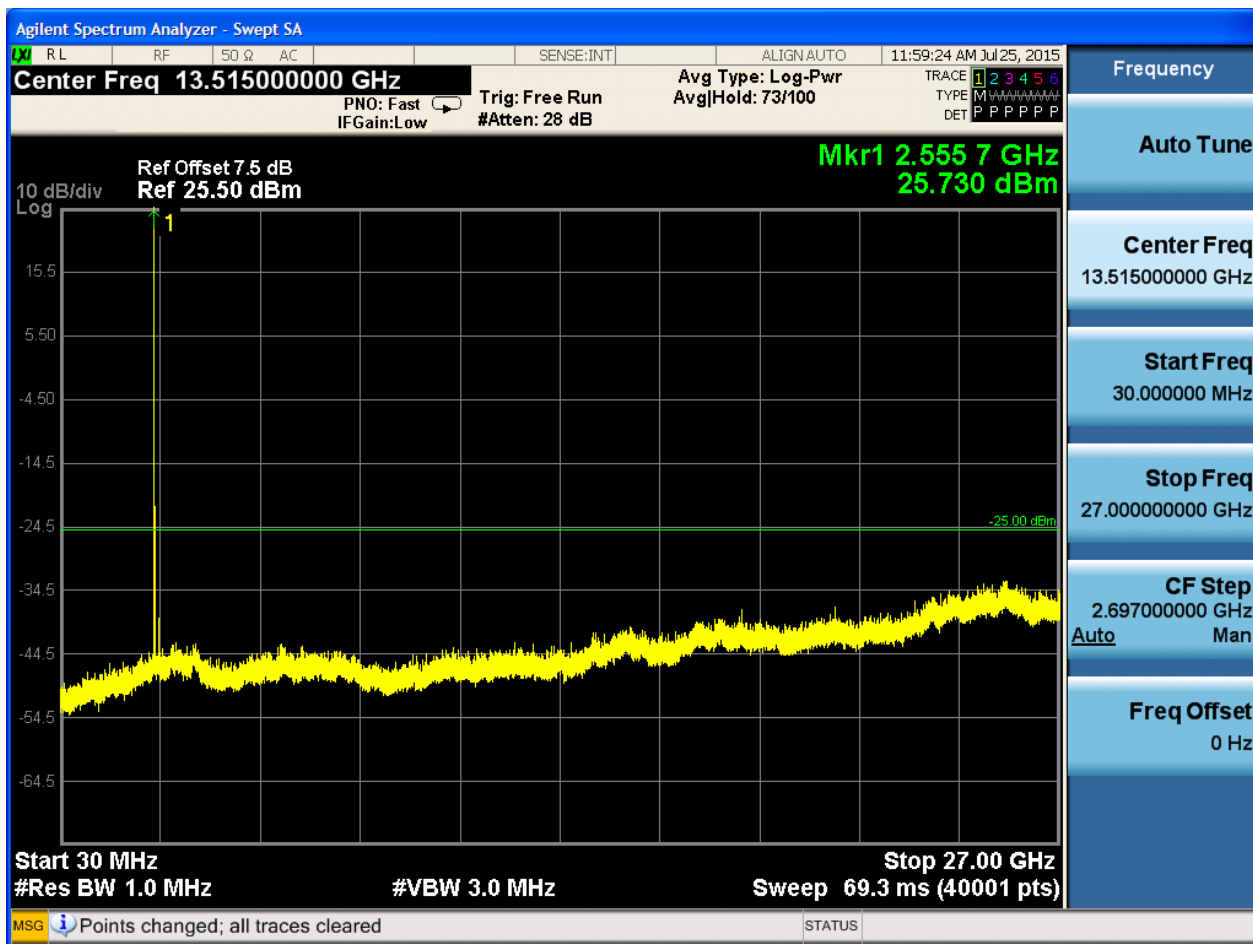


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





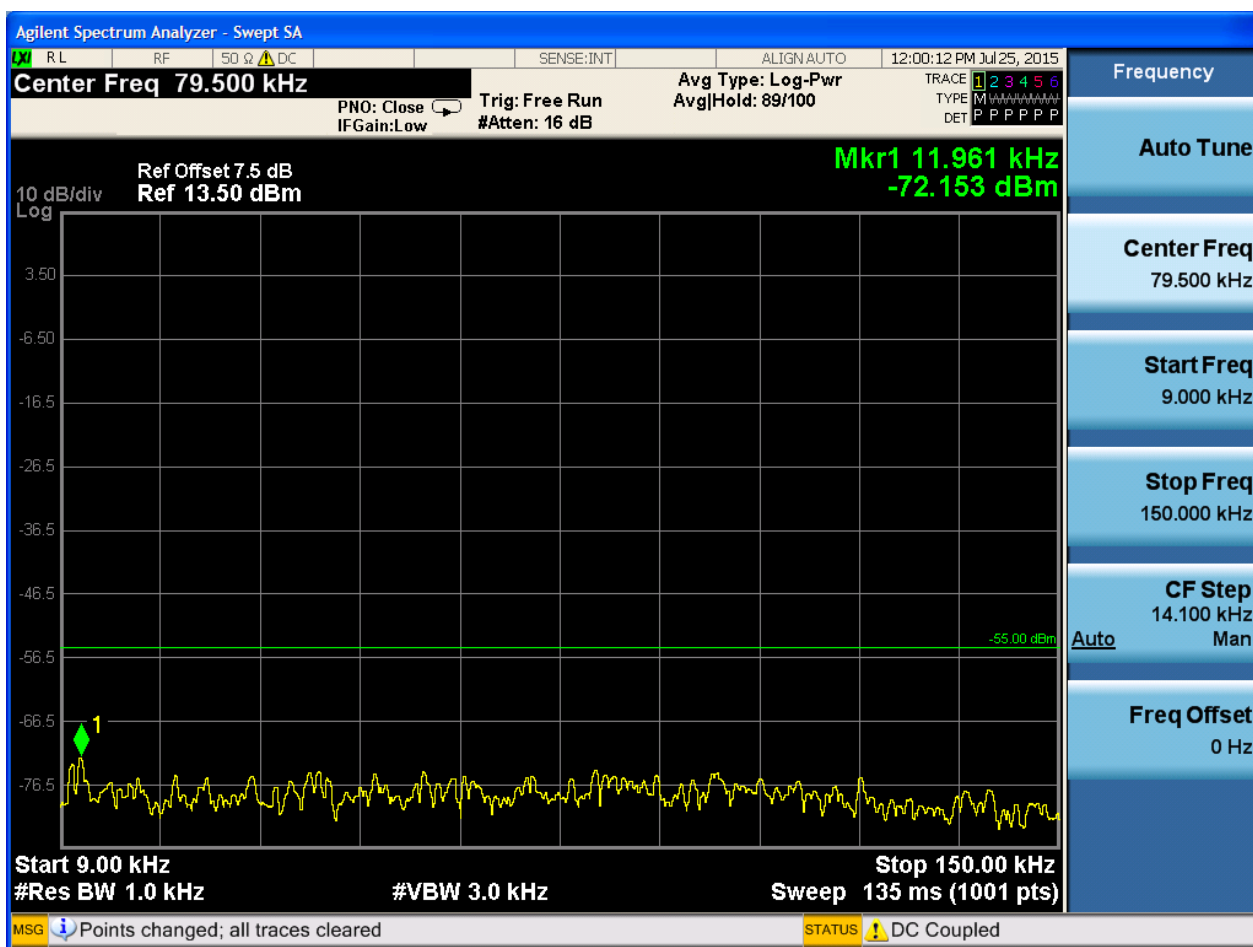


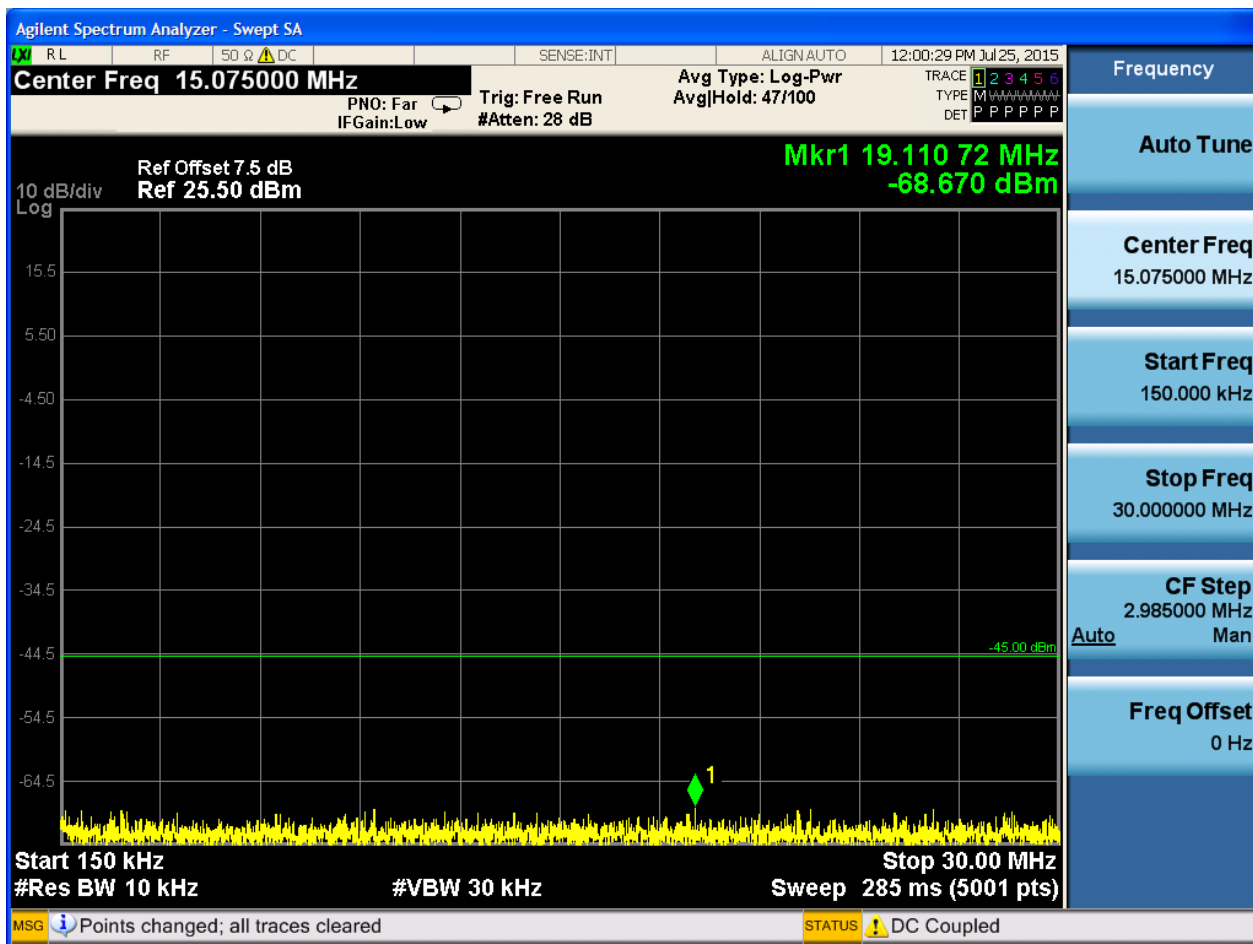


6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

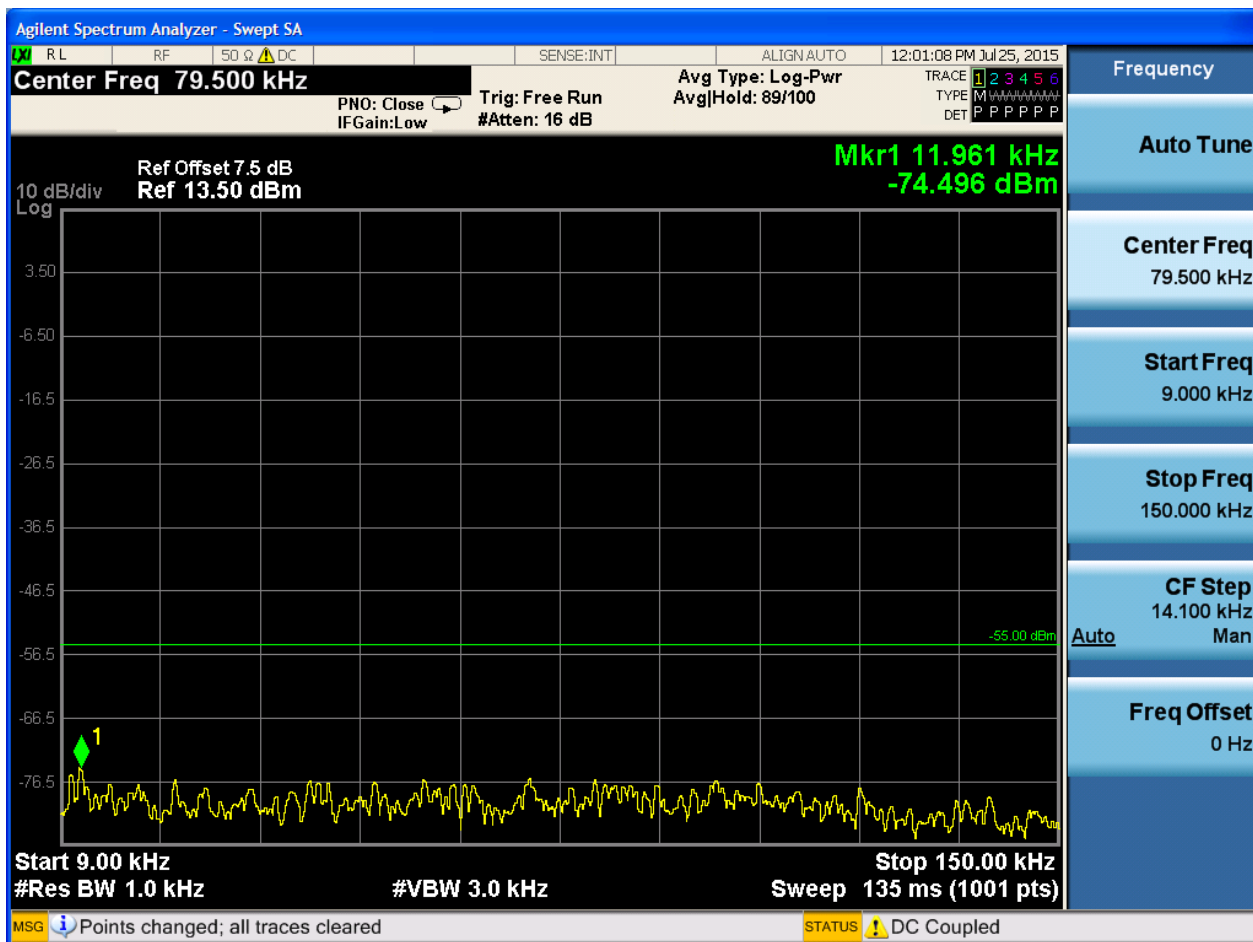




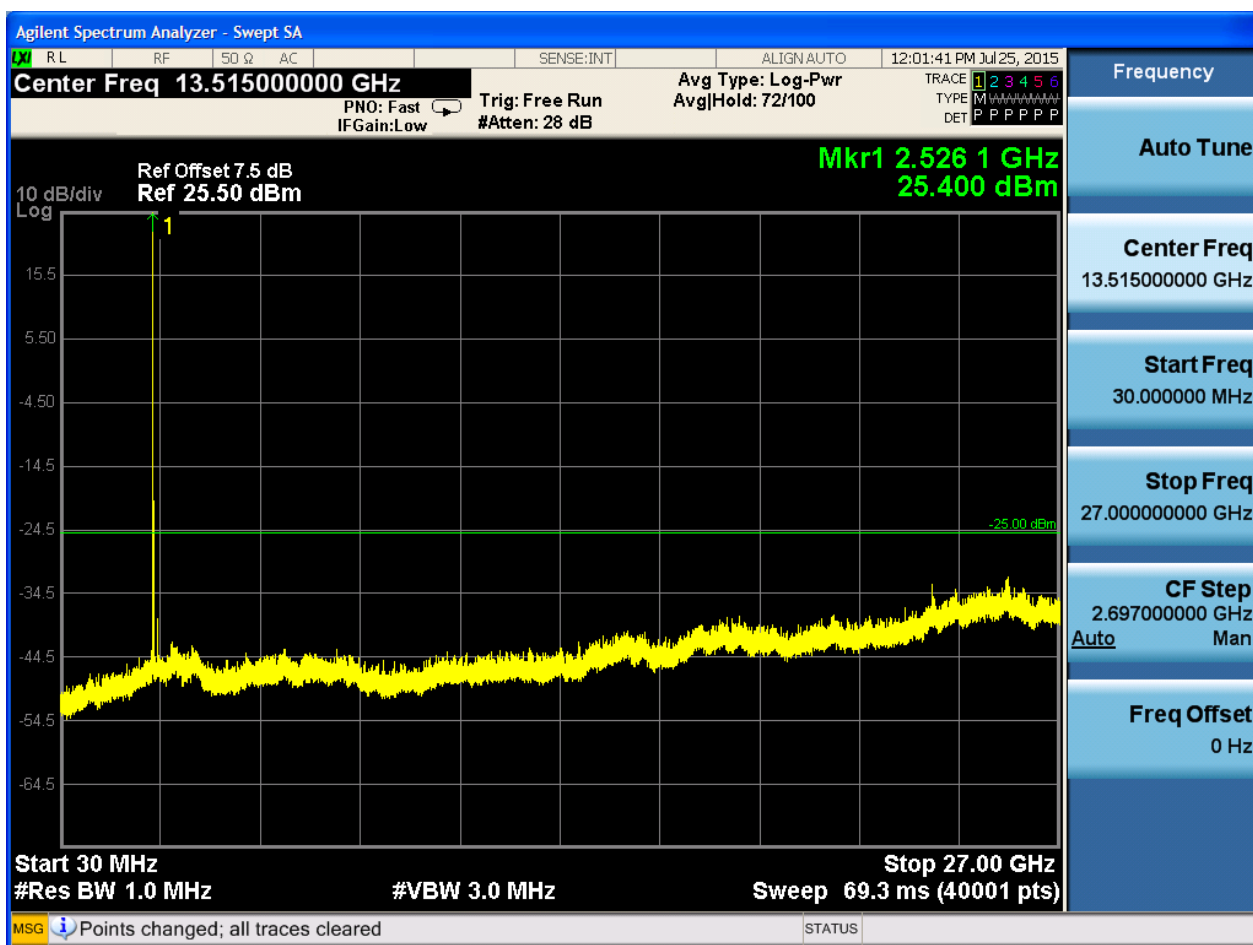


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

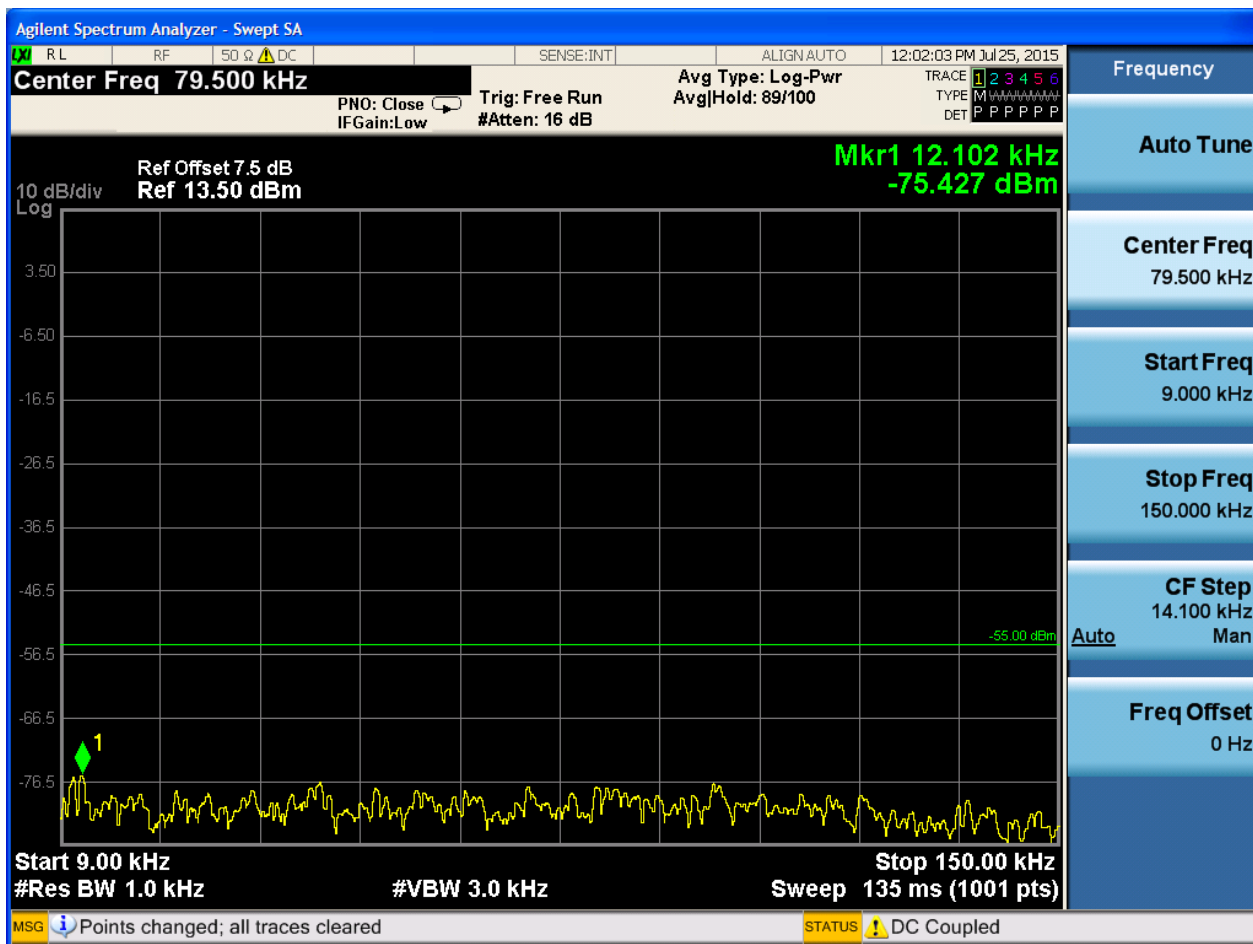


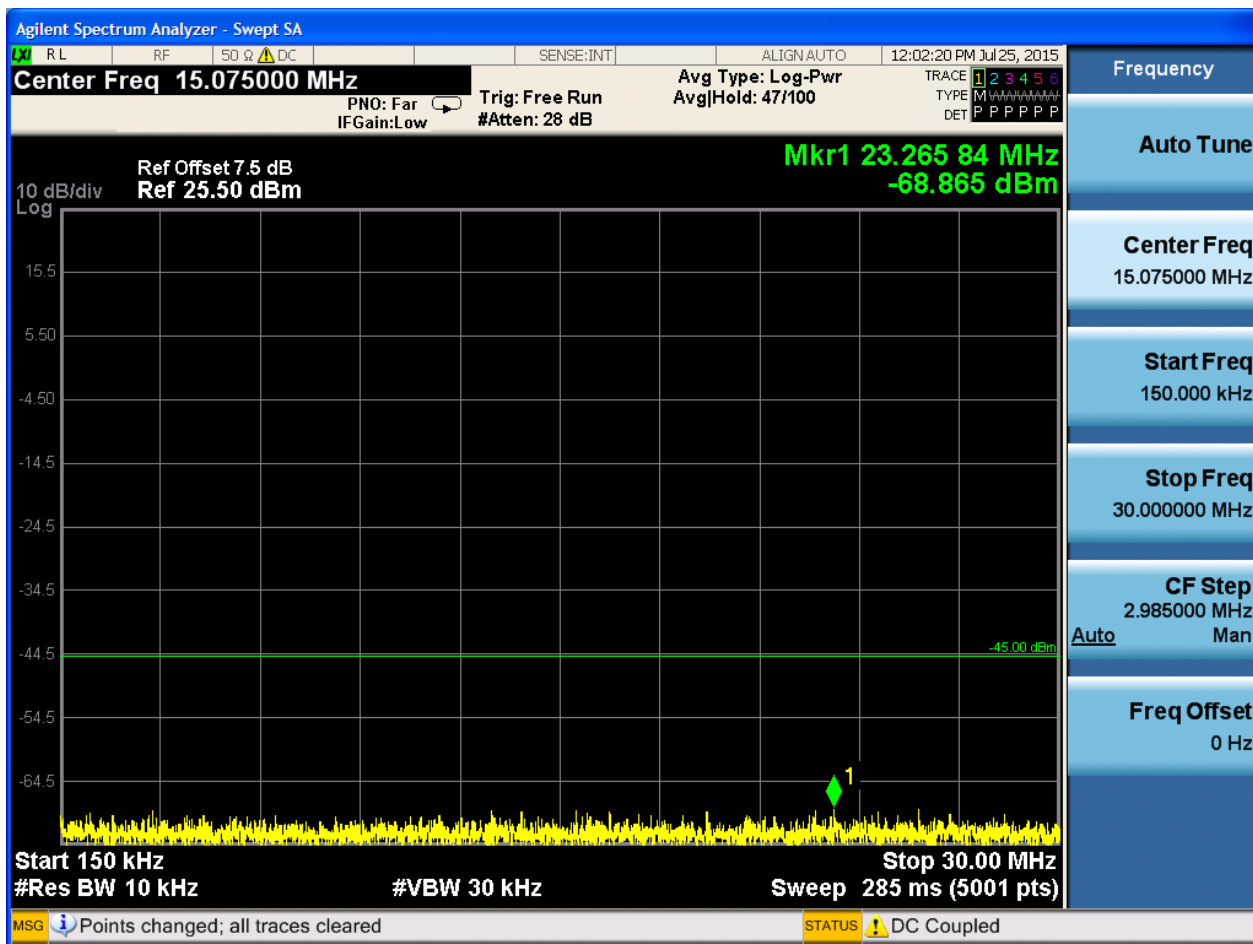




6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note:

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

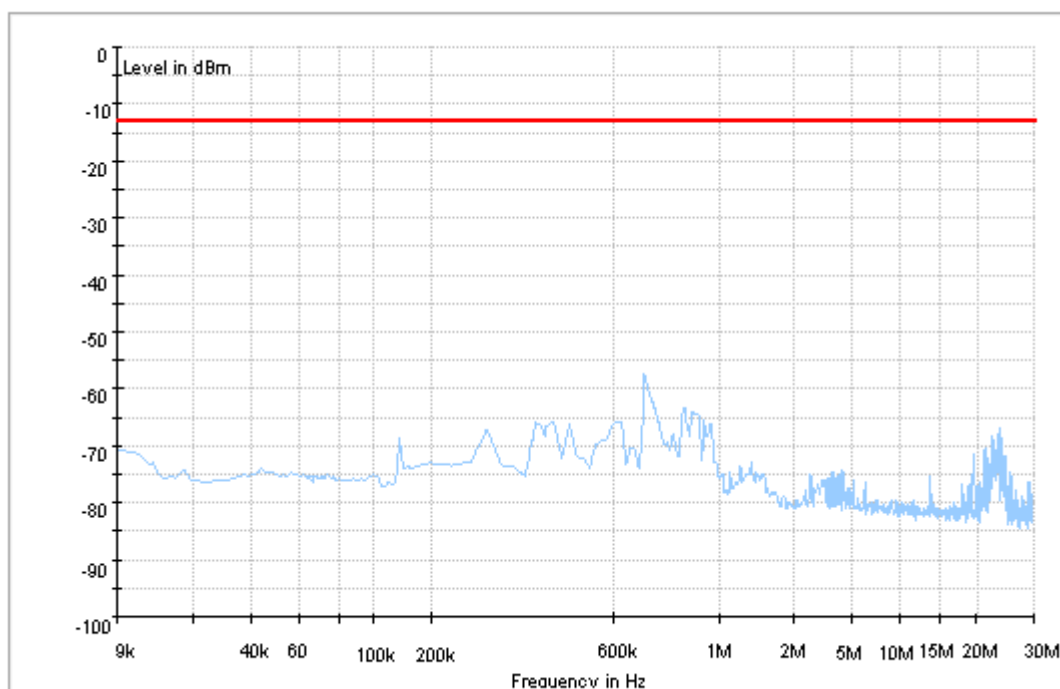
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

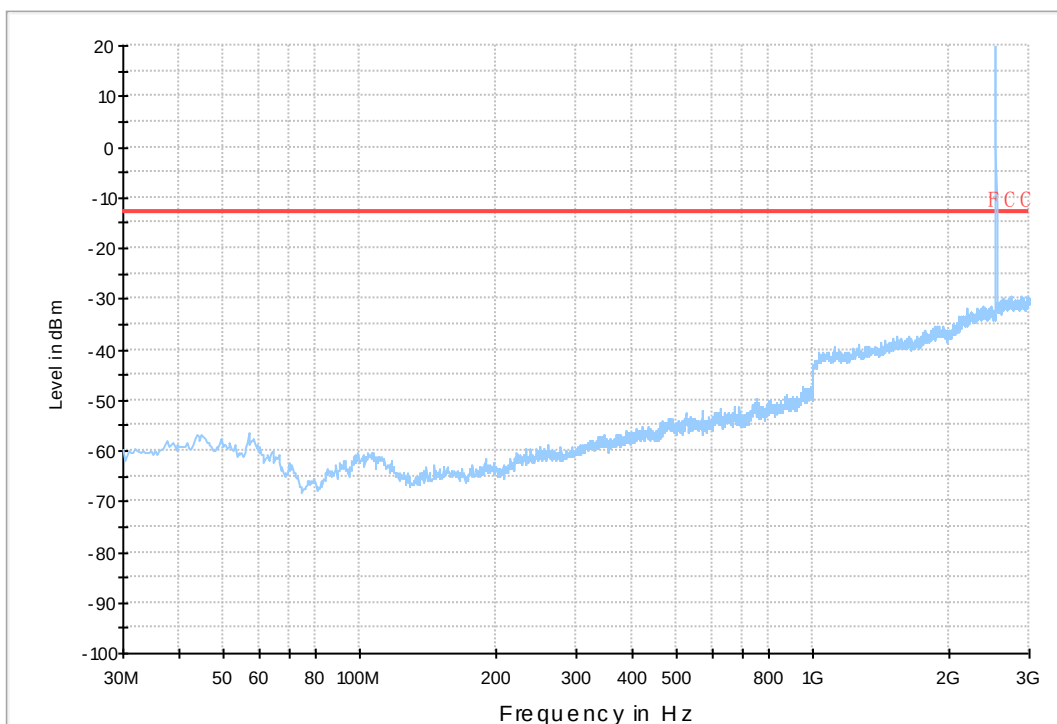
7.1 For LTE

7.1.1 Test Band = BAND7

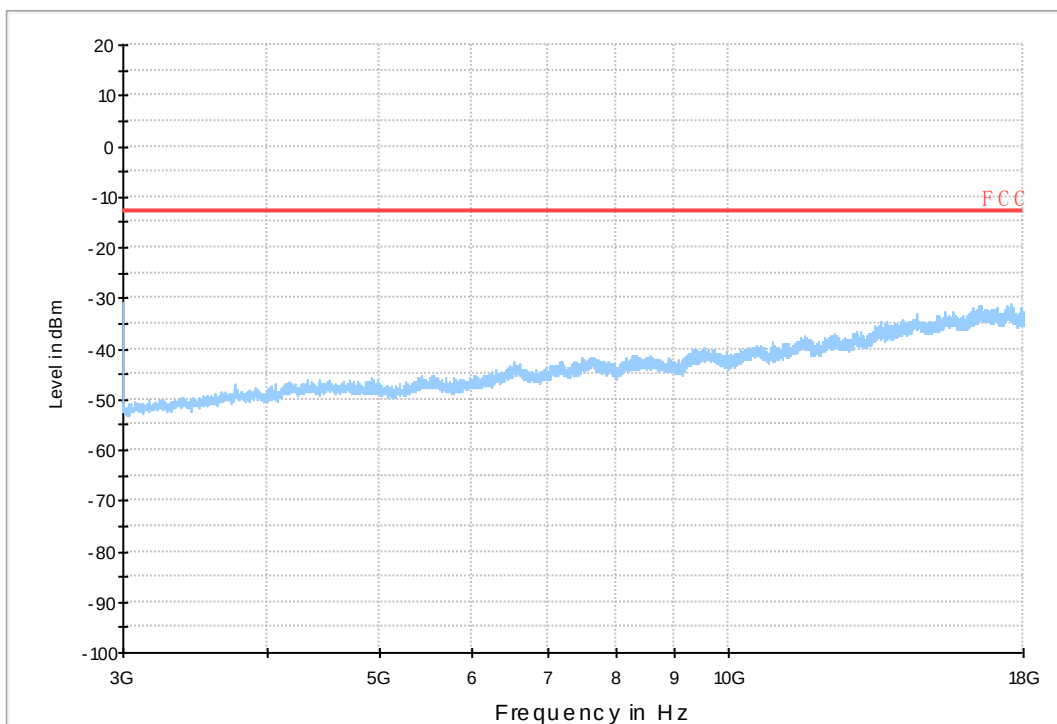
7.1.1.1 Test Bandwidth = 5

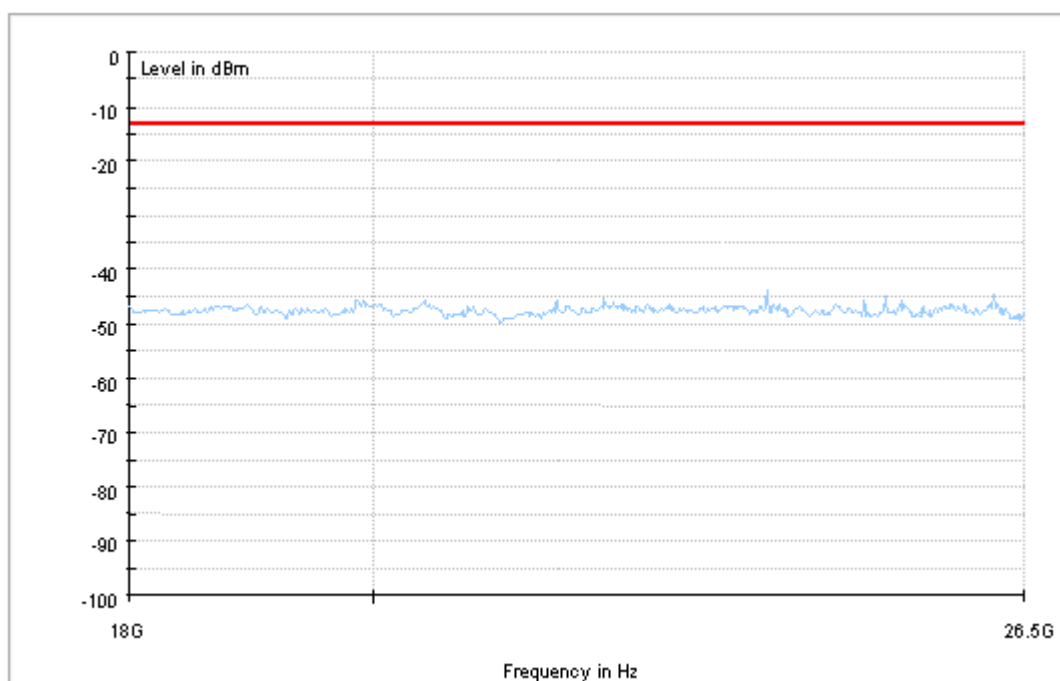


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

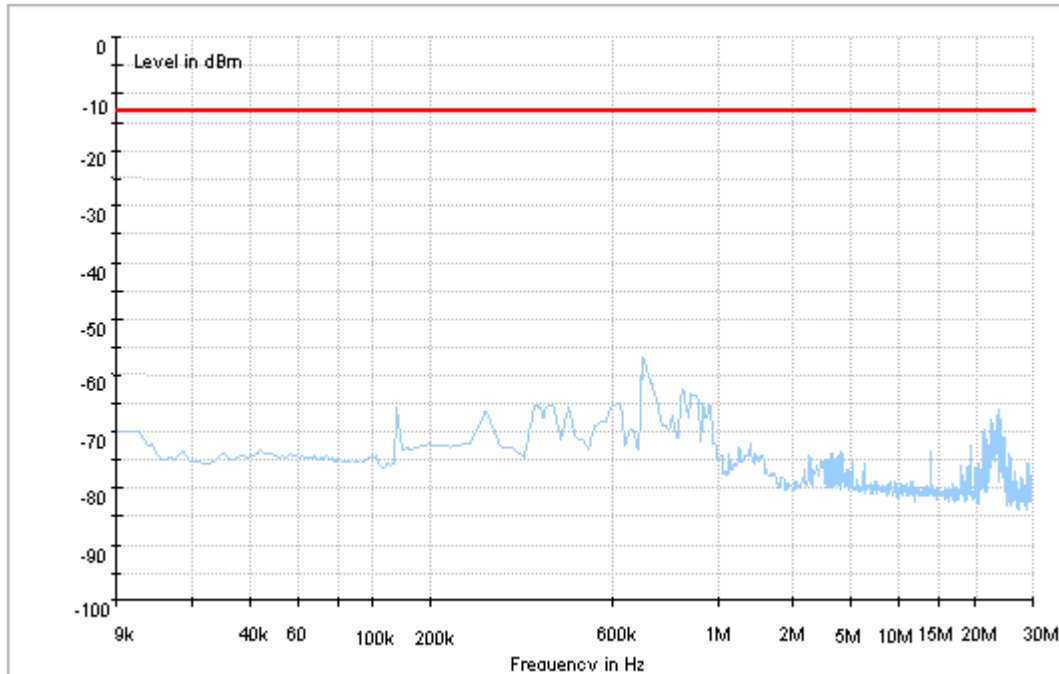


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

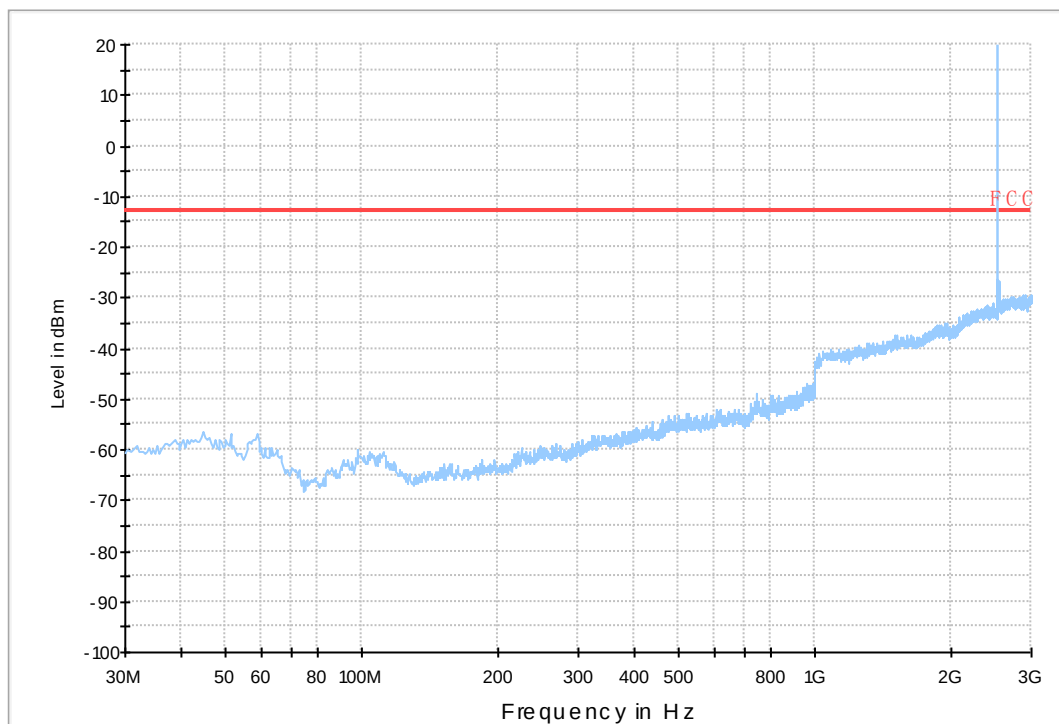




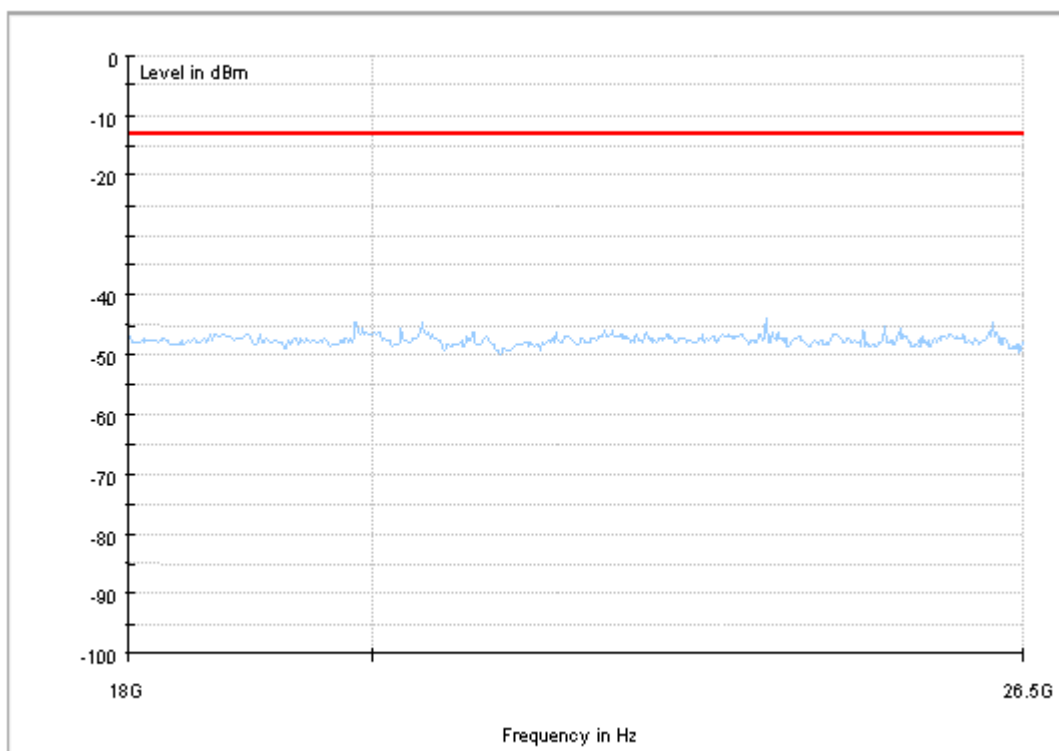
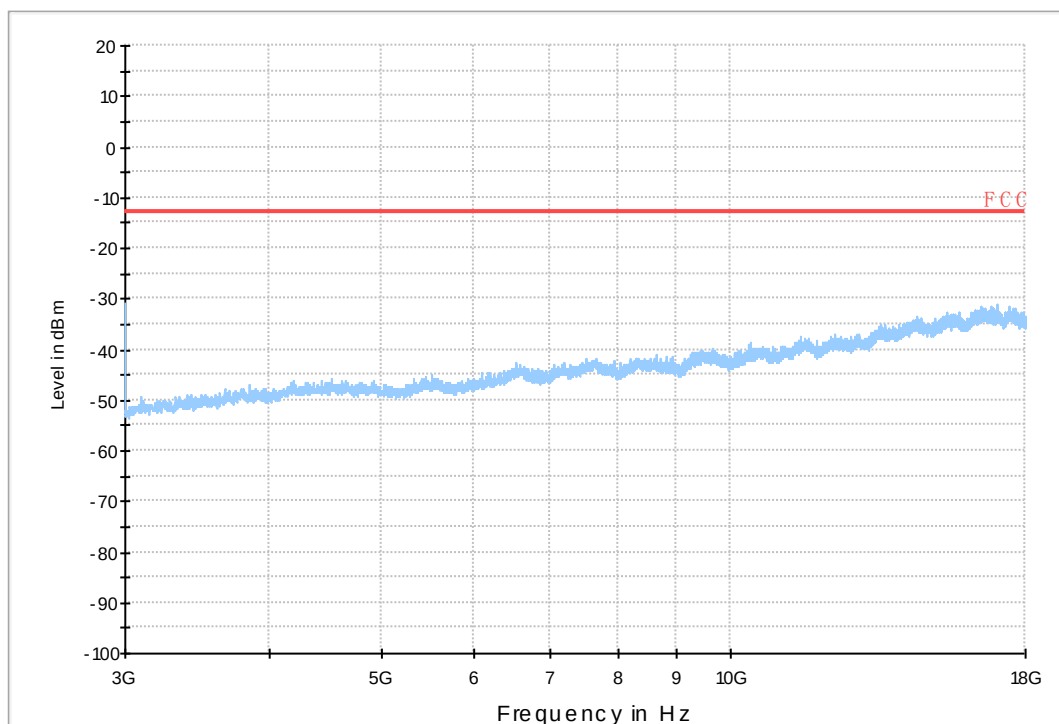
7.1.1.2 Test Bandwidth = 20



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

8.1.1Frequency 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	3.08	0.00123	PASS
					VN	0.06	0.00002	PASS
					VH	1.04	0.00042	PASS
			MCH	TN	VL	-3.88	-0.00153	PASS
					VN	-2.47	-0.00097	PASS
					VH	-2.52	-0.00099	PASS
			HCH	TN	VL	1.72	0.00067	PASS
					VN	-0.92	-0.00036	PASS
					VH	2.33	0.00091	PASS
		10	LCH	TN	VL	-1.59	-0.00063	PASS
					VN	-1.86	-0.00074	PASS
					VH	-2.62	-0.00105	PASS
			MCH	TN	VL	-4.33	-0.00171	PASS
					VN	-4.39	-0.00173	PASS
					VH	-4.56	-0.0018	PASS
			HCH	TN	VL	-4.65	-0.00181	PASS
					VN	-3.16	-0.00123	PASS
					VH	-1.09	-0.00042	PASS
		15	LCH	TN	VL	-17.21	-0.00686	PASS
					VN	-26.72	-0.01066	PASS
					VH	-31.91	-0.01273	PASS
			MCH	TN	VL	-2.26	-0.00089	PASS
					VN	-1.9	-0.00075	PASS
					VH	-4.02	-0.00159	PASS
			HCH	TN	VL	1.75	0.00068	PASS
					VN	0.92	0.00036	PASS
					VH	2.49	0.00097	PASS
		20	LCH	TN	VL	2.12	0.00084	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	3.16	0.00126	PASS
					VH	2.66	0.00106	PASS
					VL	-3.42	-0.00135	PASS
					VN	-4.85	-0.00191	PASS
					VH	-2.83	-0.00112	PASS
					VL	-0.39	-0.00015	PASS
			MCH	TN	VN	1.02	0.0004	PASS
					VH	1.59	0.00062	PASS
					VL	1.43	0.00057	PASS
					VN	1.77	0.00071	PASS
					VH	3.45	0.00138	PASS
					VL	-4.22	-0.00166	PASS
	LTE/TM2	5	LCH	TN	VN	-2.12	-0.00084	PASS
					VH	-1.46	-0.00058	PASS
					VL	2.63	0.00102	PASS
					VN	1.73	0.00067	PASS
					VH	2.82	0.0011	PASS
					VL	-3.25	-0.0013	PASS
		10	LCH	TN	VN	-3.88	-0.00155	PASS
					VH	-2.25	-0.0009	PASS
					VL	-4.02	-0.00159	PASS
					VN	-5.25	-0.00207	PASS
					VH	-3.13	-0.00123	PASS
					VL	-2.95	-0.00115	PASS
		15	LCH	TN	VN	-3.42	-0.00133	PASS
					VH	-2.99	-0.00117	PASS
					VL	4.98	0.00199	PASS
					VN	-7.87	-0.00314	PASS
					VH	-21.07	-0.0084	PASS
					VL	-1.67	-0.00066	PASS
		20	MCH	TN	VN	-2.39	-0.00094	PASS
					VH	-2.73	-0.00108	PASS
					VL	4.33	0.00169	PASS
					VN	3.46	0.00135	PASS
					VH	3.6	0.0014	PASS
					VL	3.93	0.00157	PASS
			MCH	TN	VN	3.23	0.00129	PASS
					VH	4.92	0.00196	PASS
					VL	-2.68	-0.00106	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-3.71	-0.00146	PASS
					VH	-2.05	-0.00081	PASS
			HCH	TN	VL	0.86	0.00034	PASS
					VN	0.4	0.00016	PASS
					VH	0.17	0.00007	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	3.16	0.00126	PASS
					-20	2.8	0.00112	PASS
					-10	2.57	0.00103	PASS
					0	1.39	0.00056	PASS
					10	1.7	0.00068	PASS
					20	0.56	0.00022	PASS
					30	0.57	0.00023	PASS
					40	1.93	0.00077	PASS
					50	1.04	0.00042	PASS
			MCH	VN	-30	-2.95	-0.00116	PASS
					-20	-1.79	-0.00071	PASS
					-10	-2.06	-0.00081	PASS
					0	-3.49	-0.00138	PASS
					10	-0.51	-0.0002	PASS
					20	-4.65	-0.00183	PASS
					30	-3.89	-0.00153	PASS
					40	-5.09	-0.00201	PASS
					50	-3.52	-0.00139	PASS
			HCH	VN	-30	-1.56	-0.00061	PASS
					-20	2.13	0.00083	PASS
					-10	-0.47	-0.00018	PASS
					0	1.89	0.00074	PASS
					10	0	0	PASS
					20	-1.02	-0.0004	PASS
					30	1.06	0.00041	PASS
					40	1.83	0.00071	PASS
					50	1.1	0.00043	PASS
		10	LCH	VN	-30	-3.49	-0.00139	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-1.96	-0.00078	PASS
					-10	-1.72	-0.00069	PASS
					0	-3.43	-0.00137	PASS
					10	-2.83	-0.00113	PASS
					20	-3.89	-0.00155	PASS
					30	-1.79	-0.00071	PASS
					40	-2.52	-0.00101	PASS
					50	-4.03	-0.00161	PASS
			MCH	VN	-30	-2.53	-0.001	PASS
					-20	-2.95	-0.00116	PASS
					-10	-2.27	-0.0009	PASS
					0	-4.59	-0.00181	PASS
					10	-3.53	-0.00139	PASS
					20	-1.6	-0.00063	PASS
					30	-2.95	-0.00116	PASS
					40	-2.37	-0.00093	PASS
					50	0.21	0.00008	PASS
			HCH	VN	-30	-2.19	-0.00085	PASS
					-20	-1.29	-0.0005	PASS
					-10	-2.49	-0.00097	PASS
					0	-1.69	-0.00066	PASS
					10	-2.68	-0.00104	PASS
					20	-1.86	-0.00073	PASS
					30	-1.03	-0.0004	PASS
					40	-4.85	-0.00189	PASS
					50	-1.93	-0.00075	PASS
		15	LCH	VN	-30	39.35	0.01569	PASS
					-20	26.85	0.01071	PASS
					-10	11.62	0.00463	PASS
					0	-0.86	-0.00034	PASS
					10	-13.92	-0.00555	PASS
					20	-25.43	-0.01014	PASS
					30	-32.14	-0.01282	PASS
					40	-38.14	-0.01521	PASS
					50	-37.04	-0.01477	PASS
			MCH	VN	-30	-2.57	-0.00101	PASS
					-20	-3.73	-0.00147	PASS
					-10	-1.82	-0.00072	PASS
					0	-1.75	-0.00069	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-3.73	-0.00147	PASS
					20	-2.46	-0.00097	PASS
					30	-2.23	-0.00088	PASS
					40	-4.11	-0.00162	PASS
					50	-4.68	-0.00185	PASS
			HCH	VN	-30	5.04	0.00197	PASS
					-20	3.52	0.00137	PASS
					-10	3.02	0.00118	PASS
					0	1.99	0.00078	PASS
					10	3.3	0.00129	PASS
					20	3.58	0.0014	PASS
					30	2.26	0.00088	PASS
					40	3.28	0.00128	PASS
					50	1.9	0.00074	PASS
		20	LCH	VN	-30	0.29	0.00012	PASS
					-20	2.25	0.0009	PASS
					-10	3.69	0.00147	PASS
					0	3.13	0.00125	PASS
					10	3.4	0.00135	PASS
					20	3.98	0.00159	PASS
					30	6.17	0.00246	PASS
					40	3.56	0.00142	PASS
					50	3.03	0.00121	PASS
			MCH	VN	-30	-3.5	-0.00138	PASS
					-20	-1.89	-0.00075	PASS
					-10	-1.87	-0.00074	PASS
					0	-2.2	-0.00087	PASS
					10	-2.68	-0.00106	PASS
					20	-1.26	-0.0005	PASS
					30	-1.37	-0.00054	PASS
					40	-4.69	-0.00185	PASS
					50	-3.08	-0.00121	PASS
			HCH	VN	-30	1.24	0.00048	PASS
					-20	0.16	0.00006	PASS
					-10	0.44	0.00017	PASS
					0	-0.49	-0.00019	PASS
					10	0.29	0.00011	PASS
					20	-1.2	-0.00047	PASS
					30	-0.86	-0.00034	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			40	-0.01	0	PASS
					50	0.5	0.0002	PASS
			LCH	VN	-30	2.19	0.00088	PASS
					-20	3.49	0.00139	PASS
					-10	3.56	0.00142	PASS
					0	0.57	0.00023	PASS
					10	2.29	0.00092	PASS
					20	4.66	0.00186	PASS
					30	2.75	0.0011	PASS
					40	2.37	0.00095	PASS
					50	4.82	0.00193	PASS
			MCH	VN	-30	-4.95	-0.00195	PASS
					-20	-0.82	-0.00032	PASS
					-10	-2.13	-0.00084	PASS
					0	-4.36	-0.00172	PASS
					10	-2.86	-0.00113	PASS
					20	-3.99	-0.00157	PASS
					30	-2.78	-0.0011	PASS
					40	-2.76	-0.00109	PASS
					50	-2.92	-0.00115	PASS
			HCH	VN	-30	-0.66	-0.00026	PASS
					-20	0.5	0.00019	PASS
					-10	1.97	0.00077	PASS
					0	-1.16	-0.00045	PASS
					10	1.07	0.00042	PASS
					20	2.3	0.0009	PASS
					30	2.4	0.00093	PASS
					40	0.6	0.00023	PASS
					50	1.47	0.00057	PASS
		10	LCH	VN	-30	-3.1	-0.00124	PASS
					-20	-2.45	-0.00098	PASS
					-10	-5.16	-0.00206	PASS
					0	-3.09	-0.00123	PASS
					10	-2.96	-0.00118	PASS
					20	-4.36	-0.00174	PASS
					30	-3.6	-0.00144	PASS
					40	-3.81	-0.00152	PASS
					50	-3.49	-0.00139	PASS
			MCH	VN	-30	-2.68	-0.00106	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-2.36	-0.00093	PASS
					-10	-4.15	-0.00164	PASS
					0	-1.77	-0.0007	PASS
					10	-2.92	-0.00115	PASS
					20	-3.29	-0.0013	PASS
					30	-4.33	-0.00171	PASS
					40	-4.11	-0.00162	PASS
					50	-0.37	-0.00015	PASS
			HCH	VN	-30	-2.19	-0.00085	PASS
					-20	-3.48	-0.00136	PASS
					-10	-4.21	-0.00164	PASS
					0	-4.13	-0.00161	PASS
					10	-4.78	-0.00186	PASS
					20	-4.82	-0.00188	PASS
					30	-3.88	-0.00151	PASS
					40	-3.32	-0.00129	PASS
					50	-2.73	-0.00106	PASS
		15	LCH	VN	-30	78.36	0.03125	PASS
					-20	75.14	0.02997	PASS
					-10	63.63	0.02538	PASS
					0	55.23	0.02203	PASS
					10	42.97	0.01714	PASS
					20	32.04	0.01278	PASS
					30	21.11	0.00842	PASS
					40	12.99	0.00518	PASS
					50	2.73	0.00109	PASS
			MCH	VN	-30	-2.6	-0.00103	PASS
					-20	-2.53	-0.001	PASS
					-10	-2.65	-0.00105	PASS
					0	-2.33	-0.00092	PASS
					10	-2.22	-0.00088	PASS
					20	-2.76	-0.00109	PASS
					30	-3.98	-0.00157	PASS
					40	-1.56	-0.00062	PASS
					50	-3.62	-0.00143	PASS
			HCH	VN	-30	1.13	0.00044	PASS
					-20	2.7	0.00105	PASS
					-10	2.85	0.00111	PASS
					0	2.86	0.00112	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	0.19	0.00007	PASS
					20	1.13	0.00044	PASS
					30	2.55	0.001	PASS
					40	2.89	0.00113	PASS
					50	2.99	0.00117	PASS
		20	LCH	VN	-30	1.54	0.00061	PASS
					-20	1.4	0.00056	PASS
					-10	4.39	0.00175	PASS
					0	1.75	0.0007	PASS
					10	2.6	0.00104	PASS
					20	3.05	0.00122	PASS
					30	0.83	0.00033	PASS
					40	3.52	0.0014	PASS
					50	1.6	0.00064	PASS
			MCH	VN	-30	-4.88	-0.00193	PASS
					-20	-4.25	-0.00168	PASS
					-10	-3.38	-0.00133	PASS
					0	-1.6	-0.00063	PASS
					10	-3.28	-0.00129	PASS
					20	-2.07	-0.00082	PASS
					30	-0.92	-0.00036	PASS
					40	-3.16	-0.00125	PASS
					50	-4.69	-0.00185	PASS
			HCH	VN	-30	2.02	0.00079	PASS
					-20	0.73	0.00029	PASS
					-10	3.45	0.00135	PASS
					0	1.97	0.00077	PASS
					10	1.39	0.00054	PASS
					20	-0.21	-0.00008	PASS
					30	3.71	0.00145	PASS
					40	2.15	0.00084	PASS
					50	1.34	0.00052	PASS

END