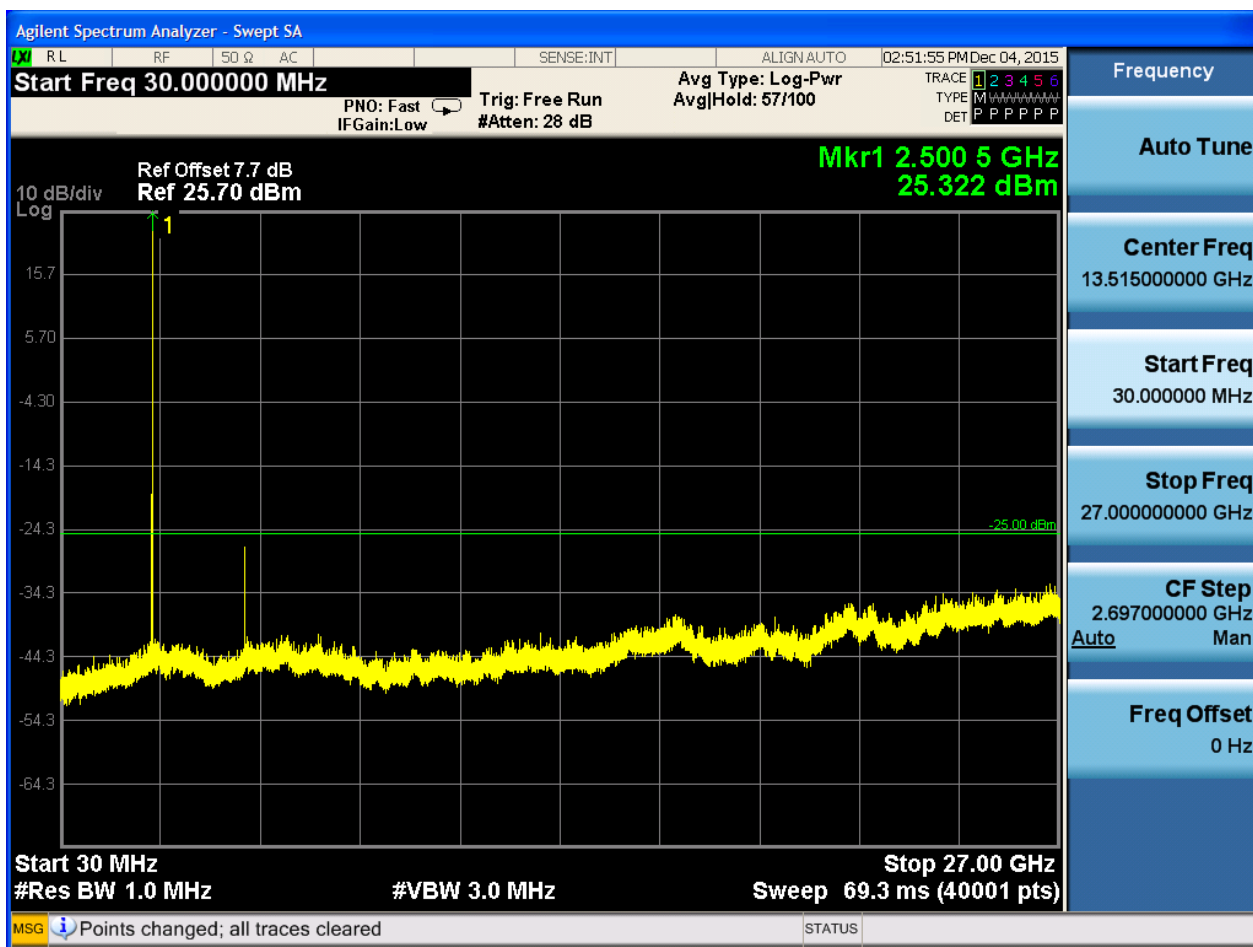
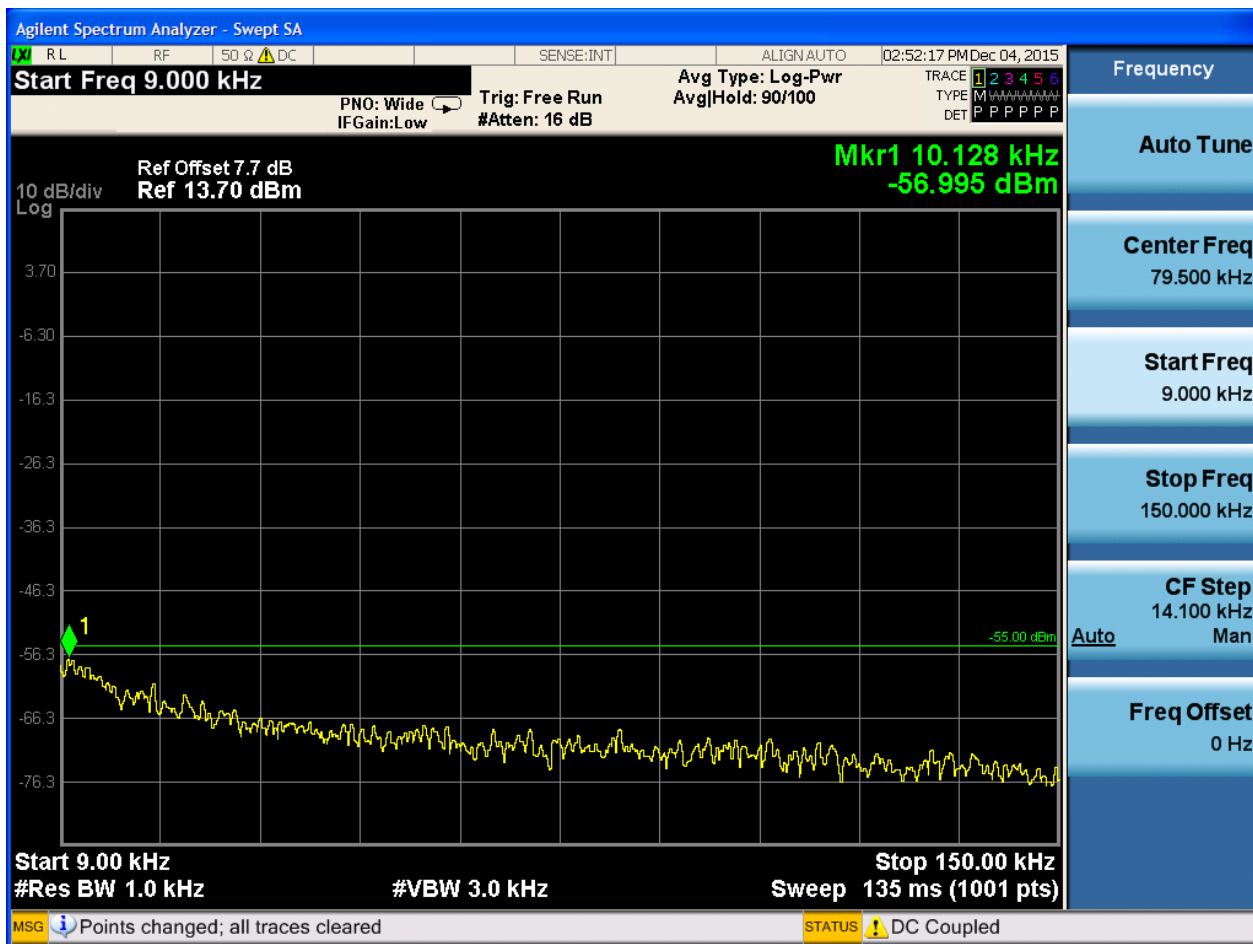


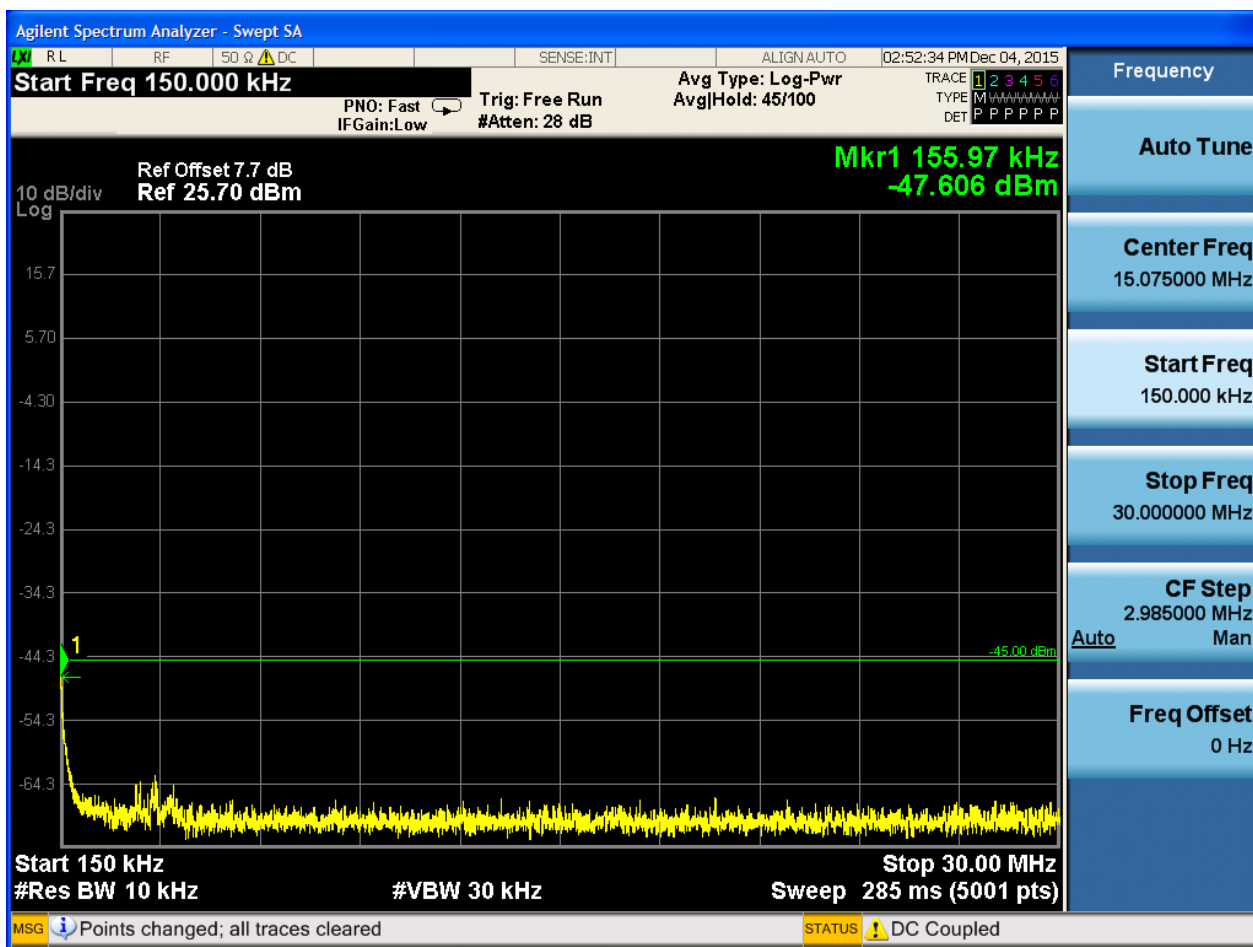


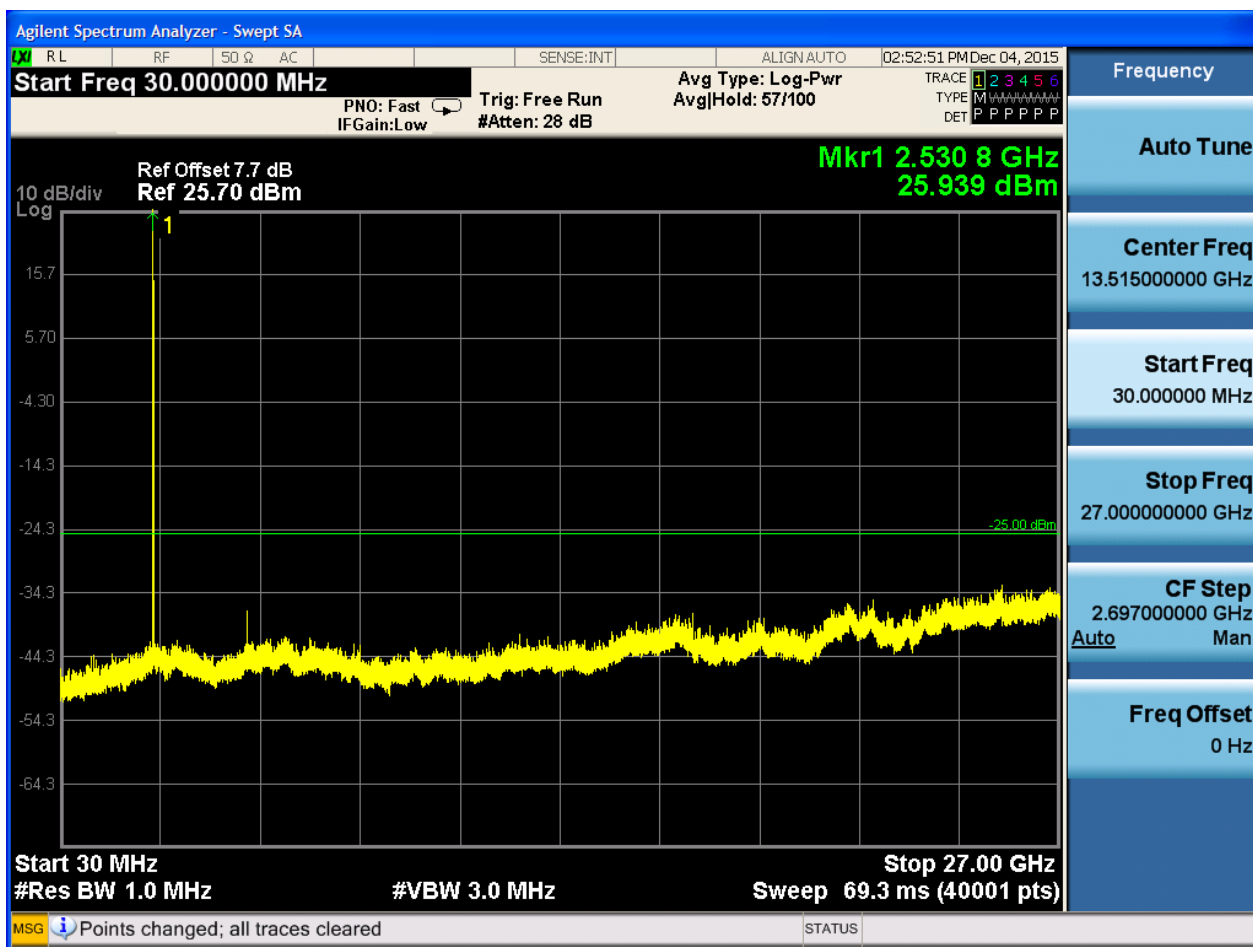


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



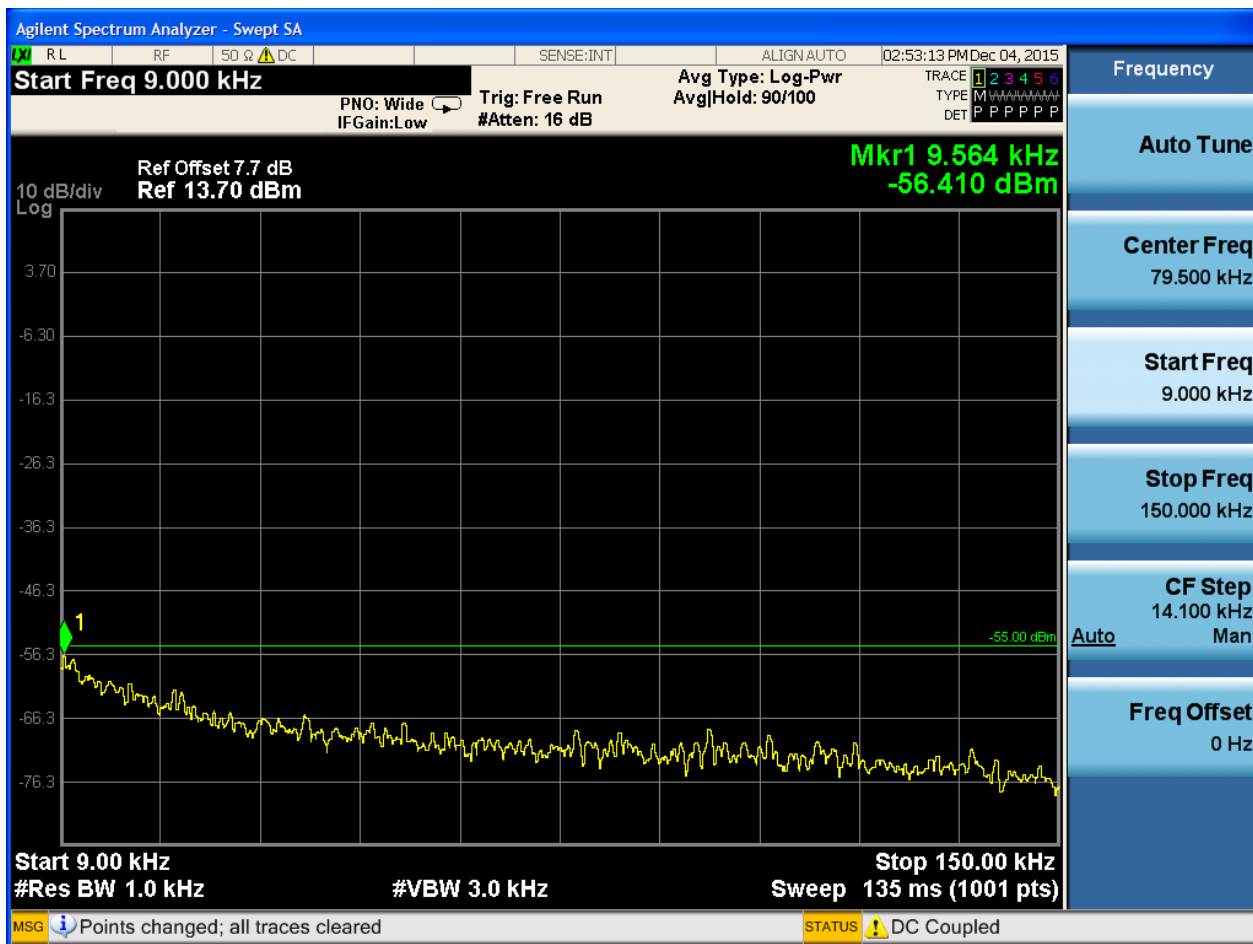


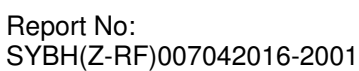


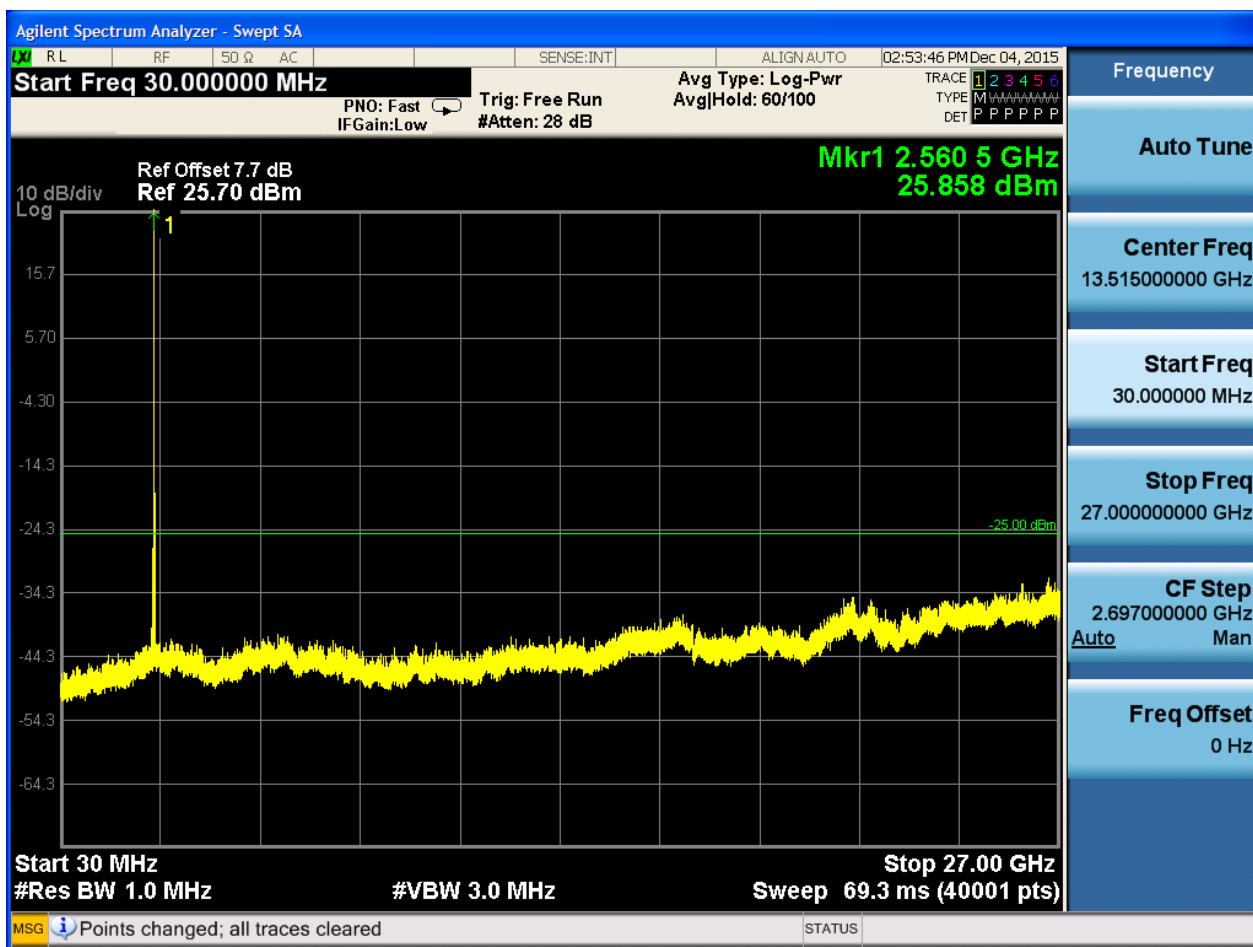


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



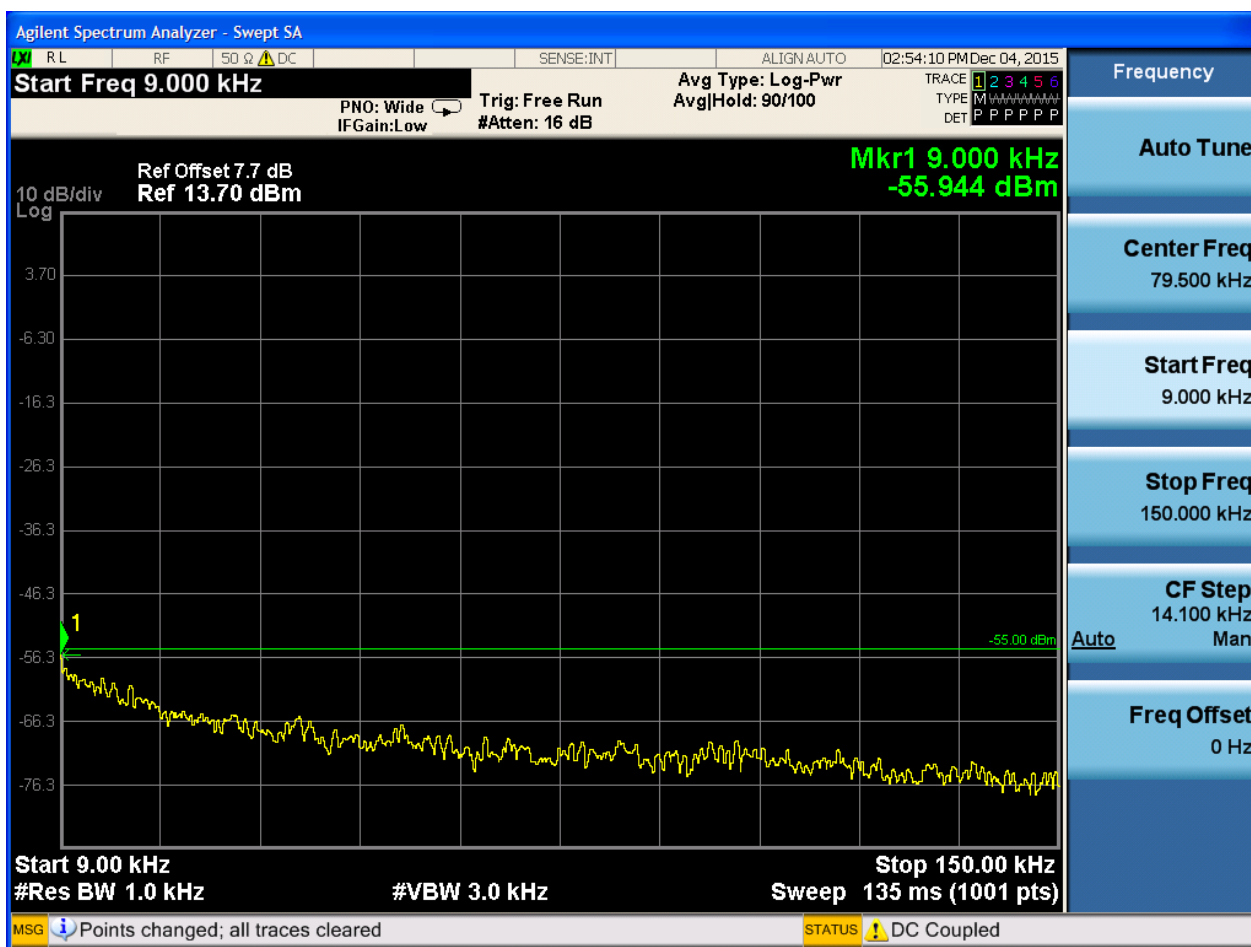


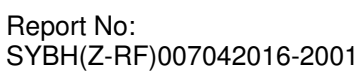


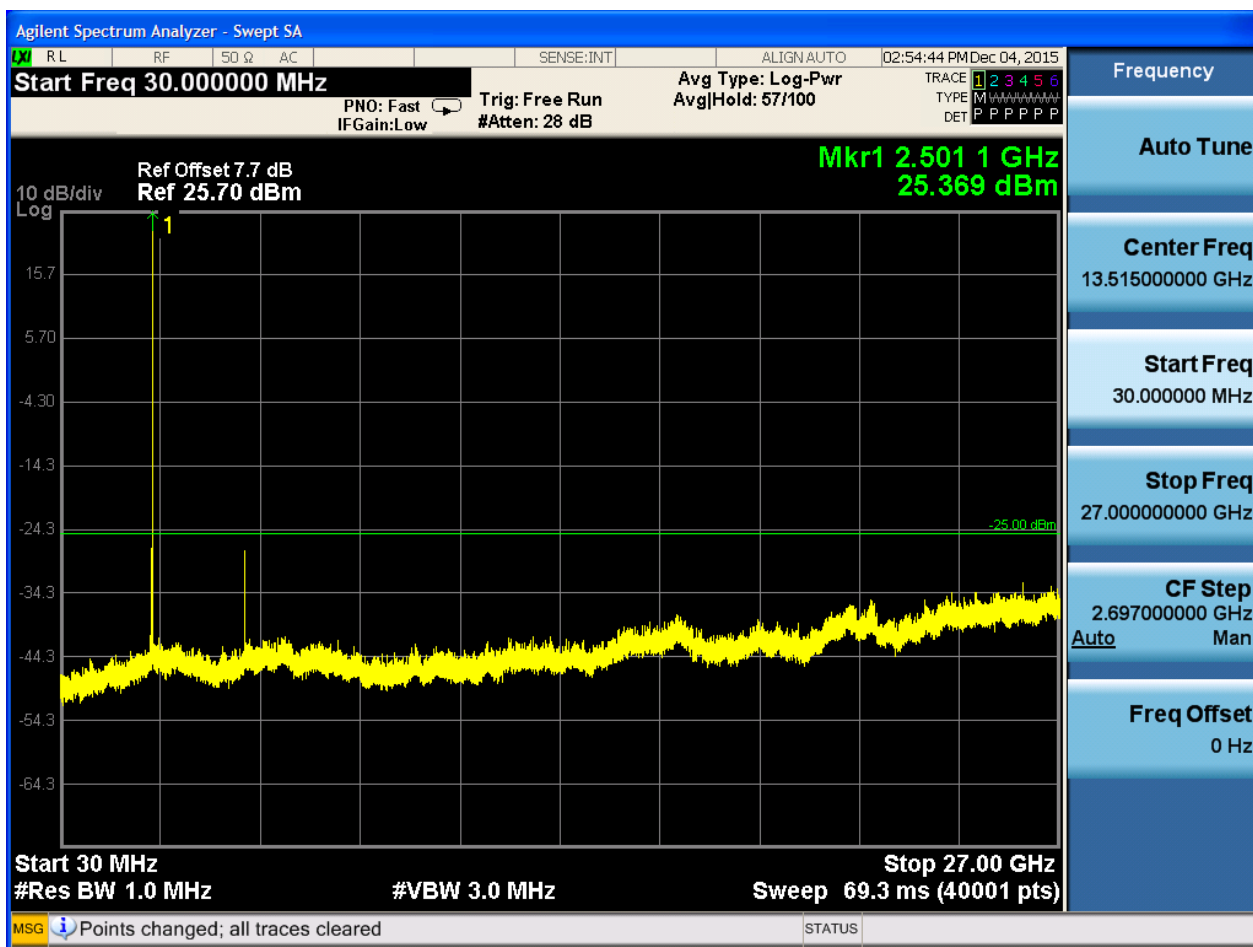
6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





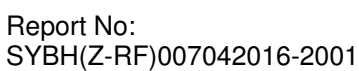


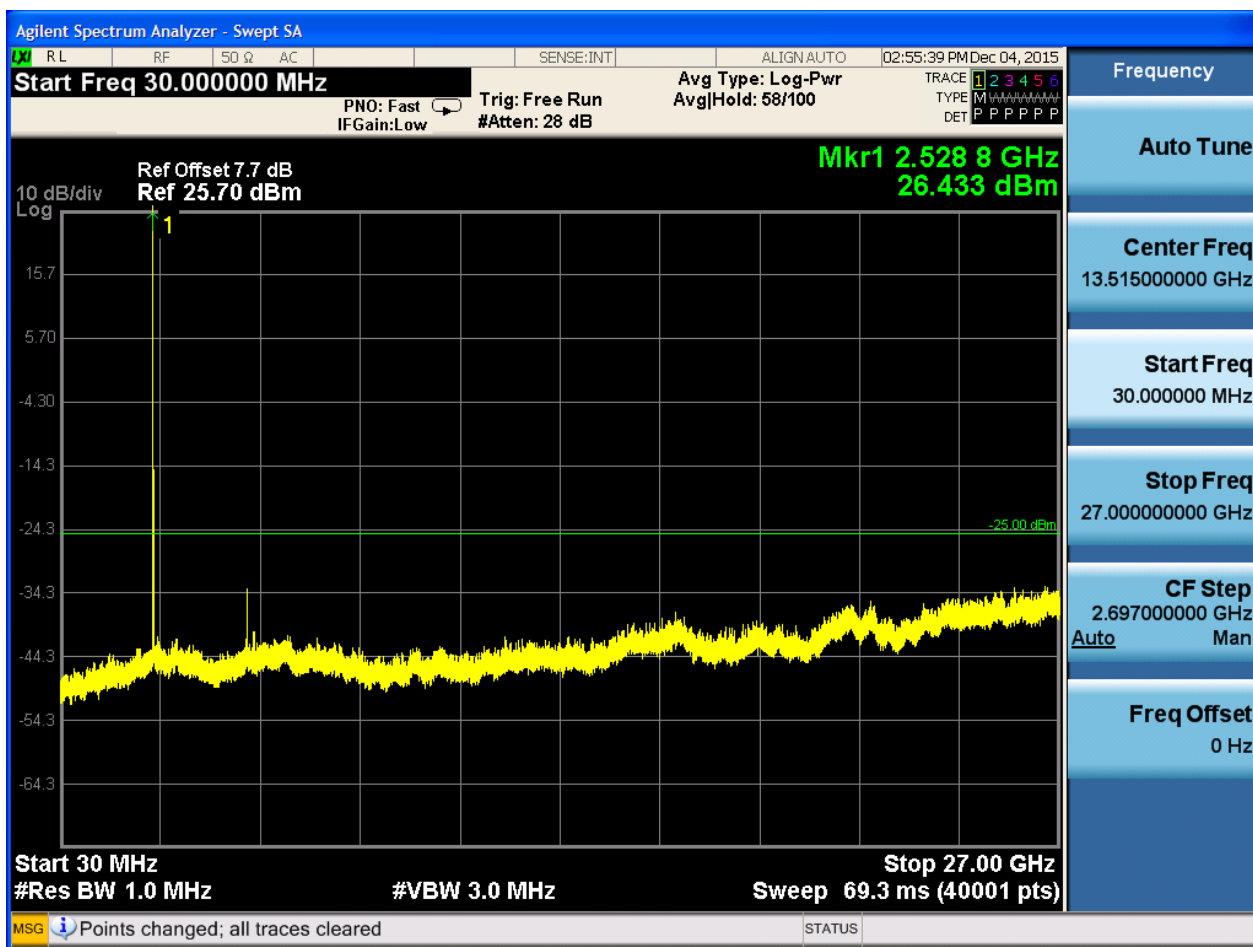


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



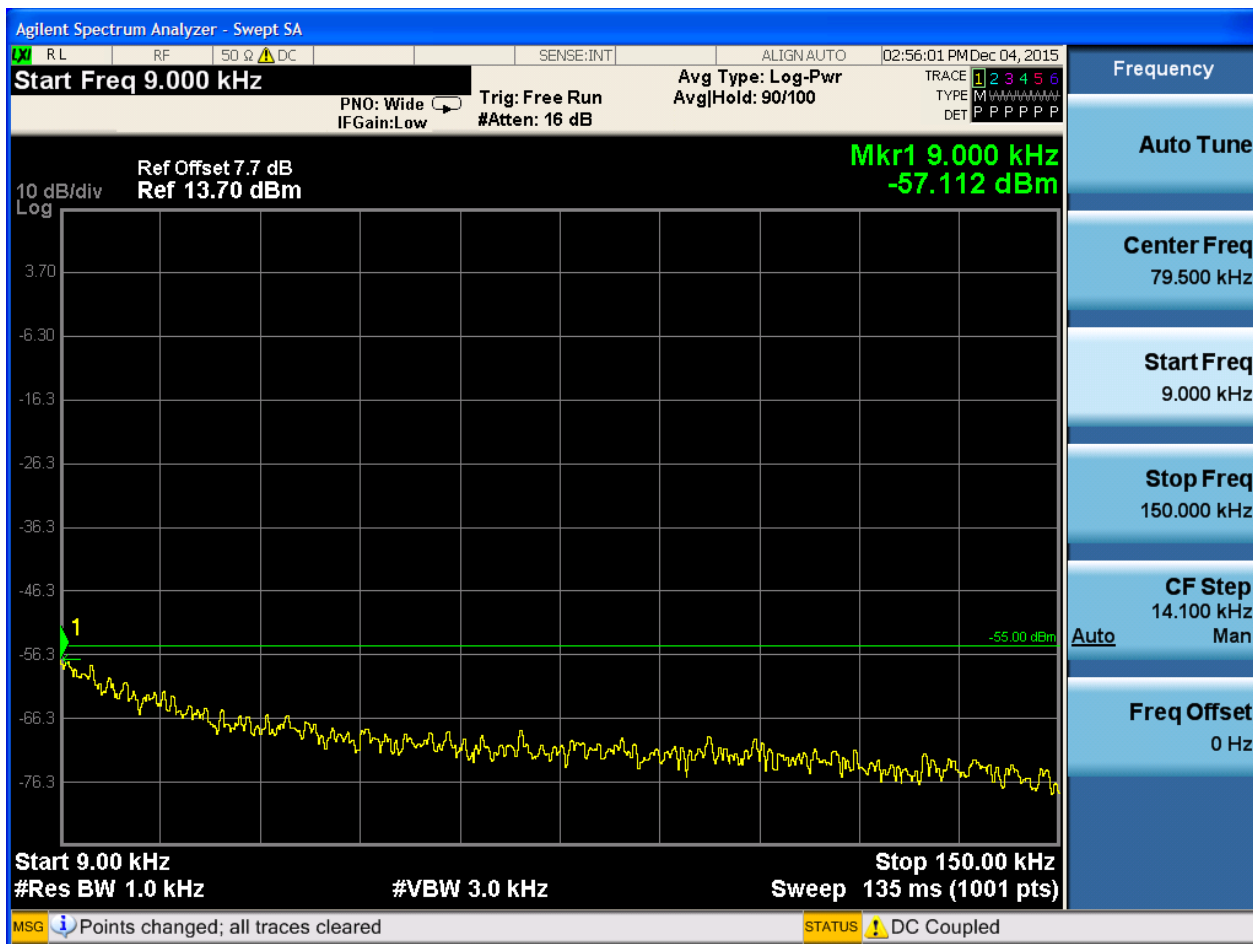


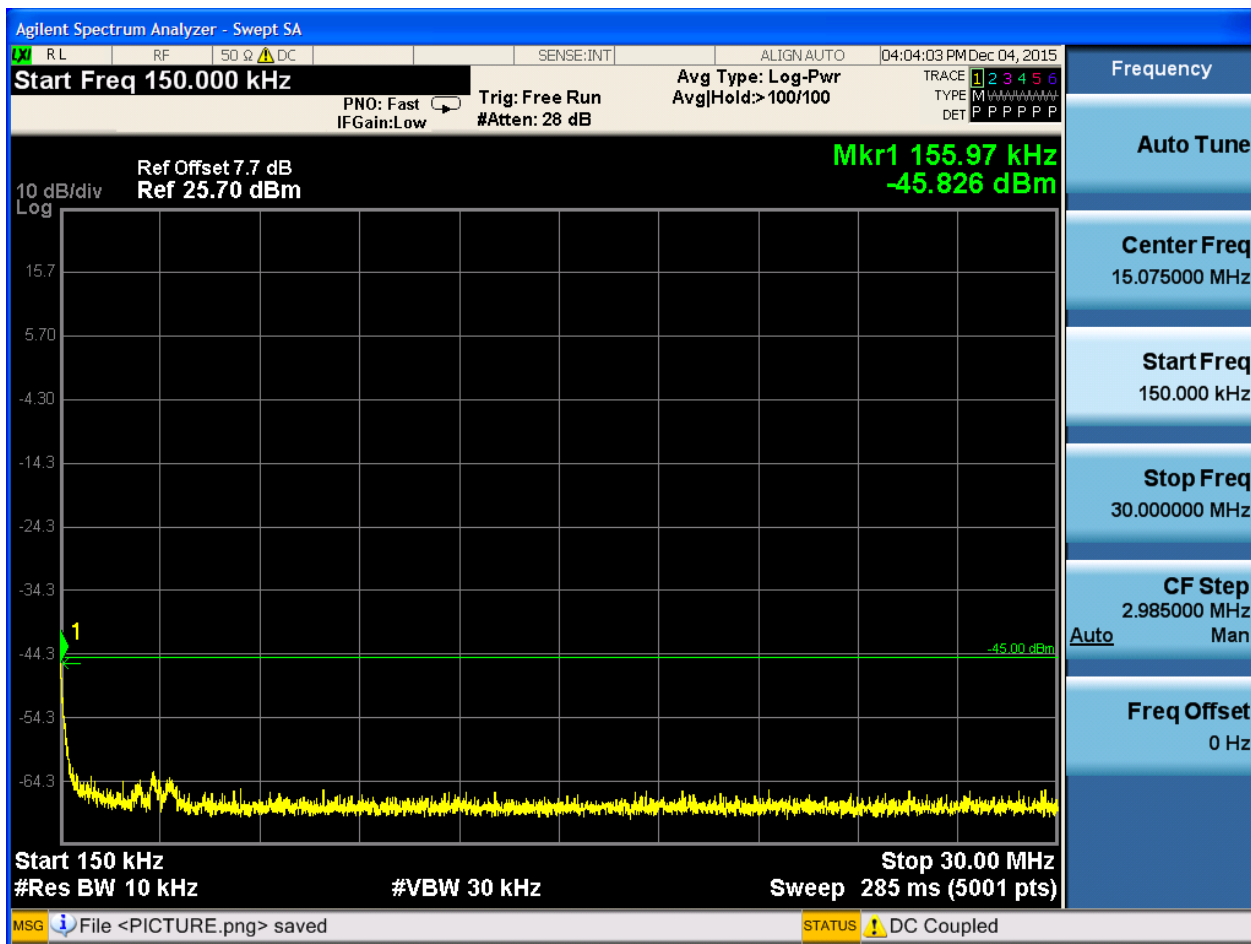


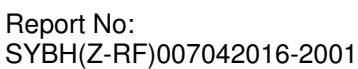


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



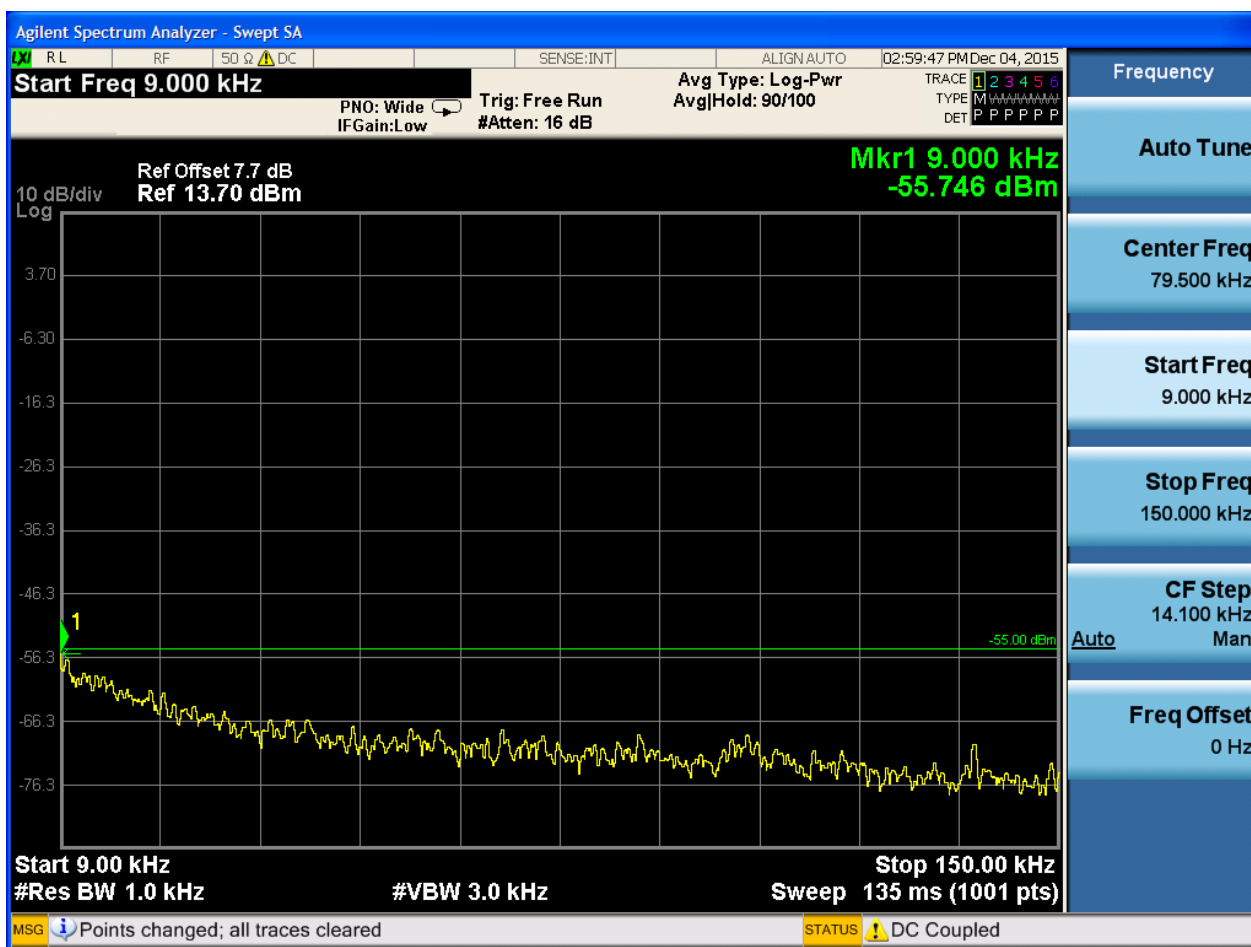


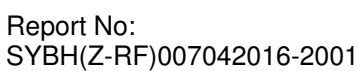


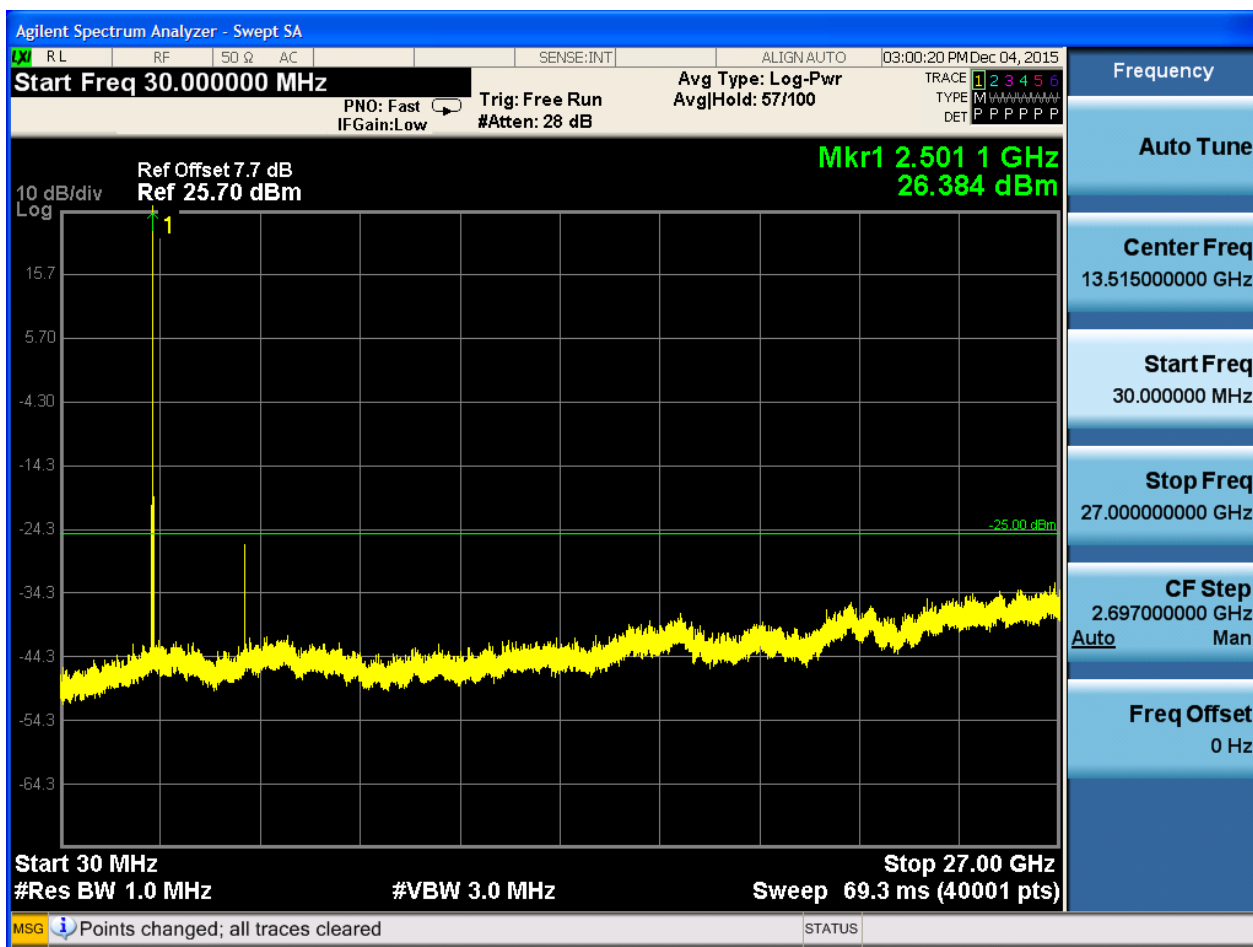
6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



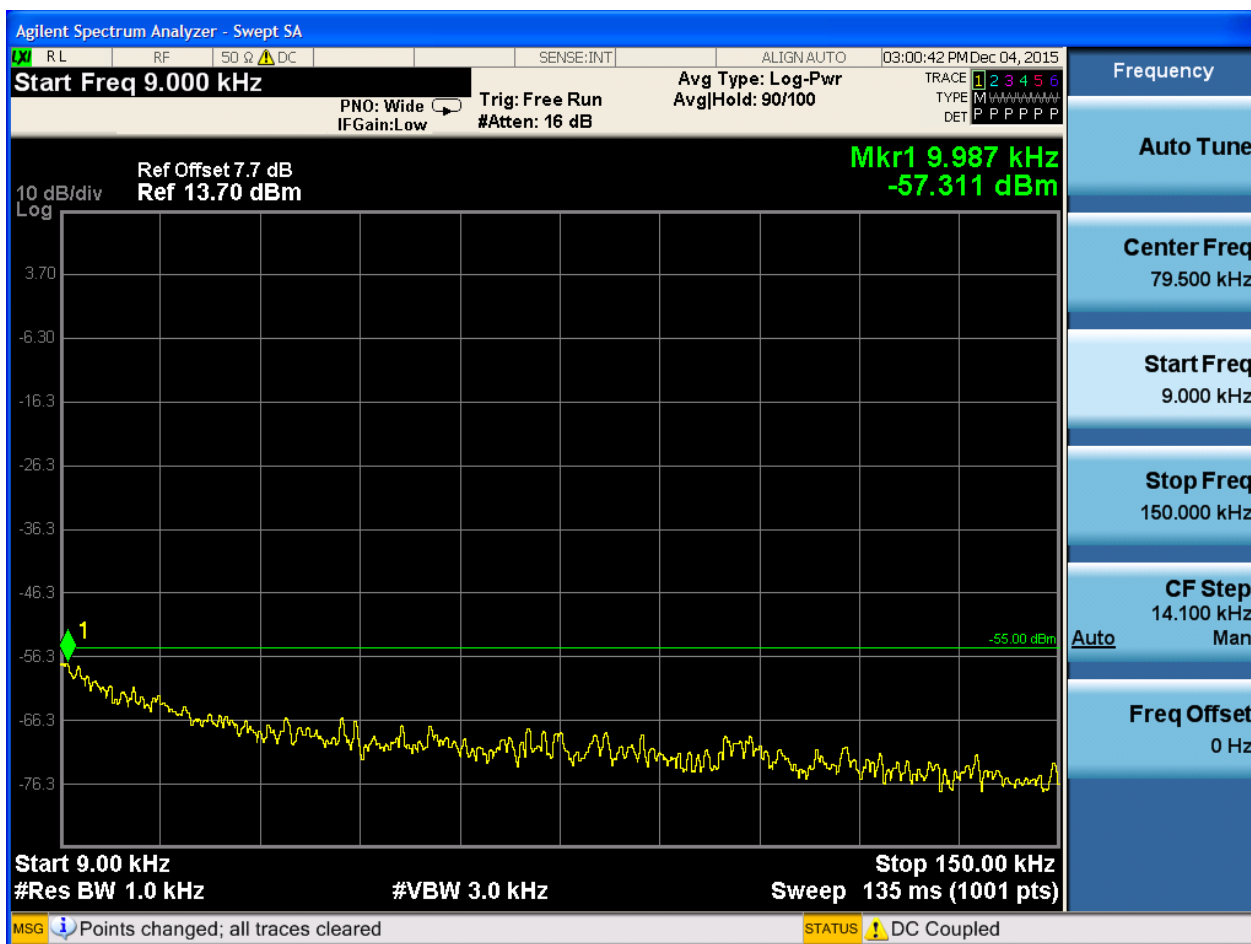


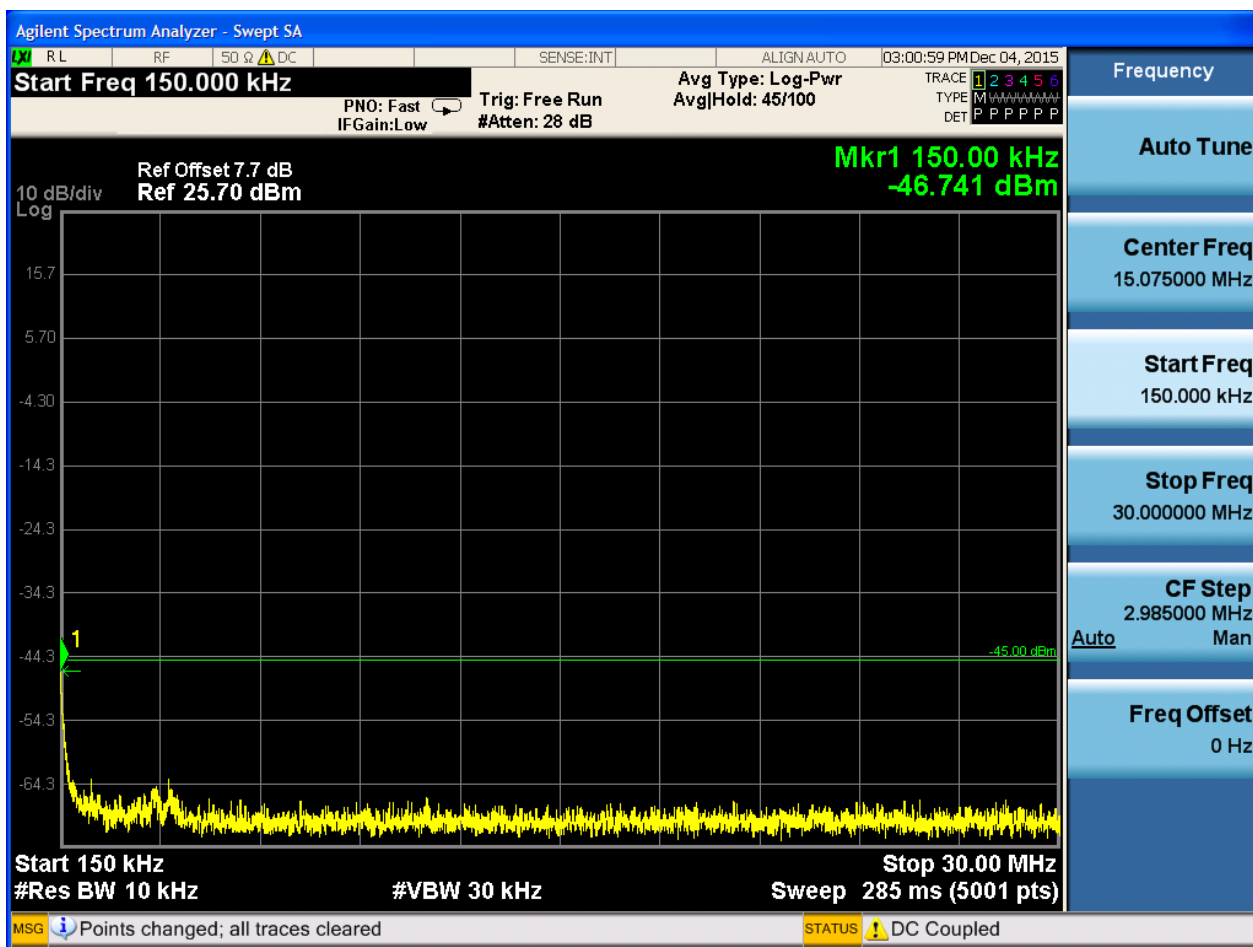


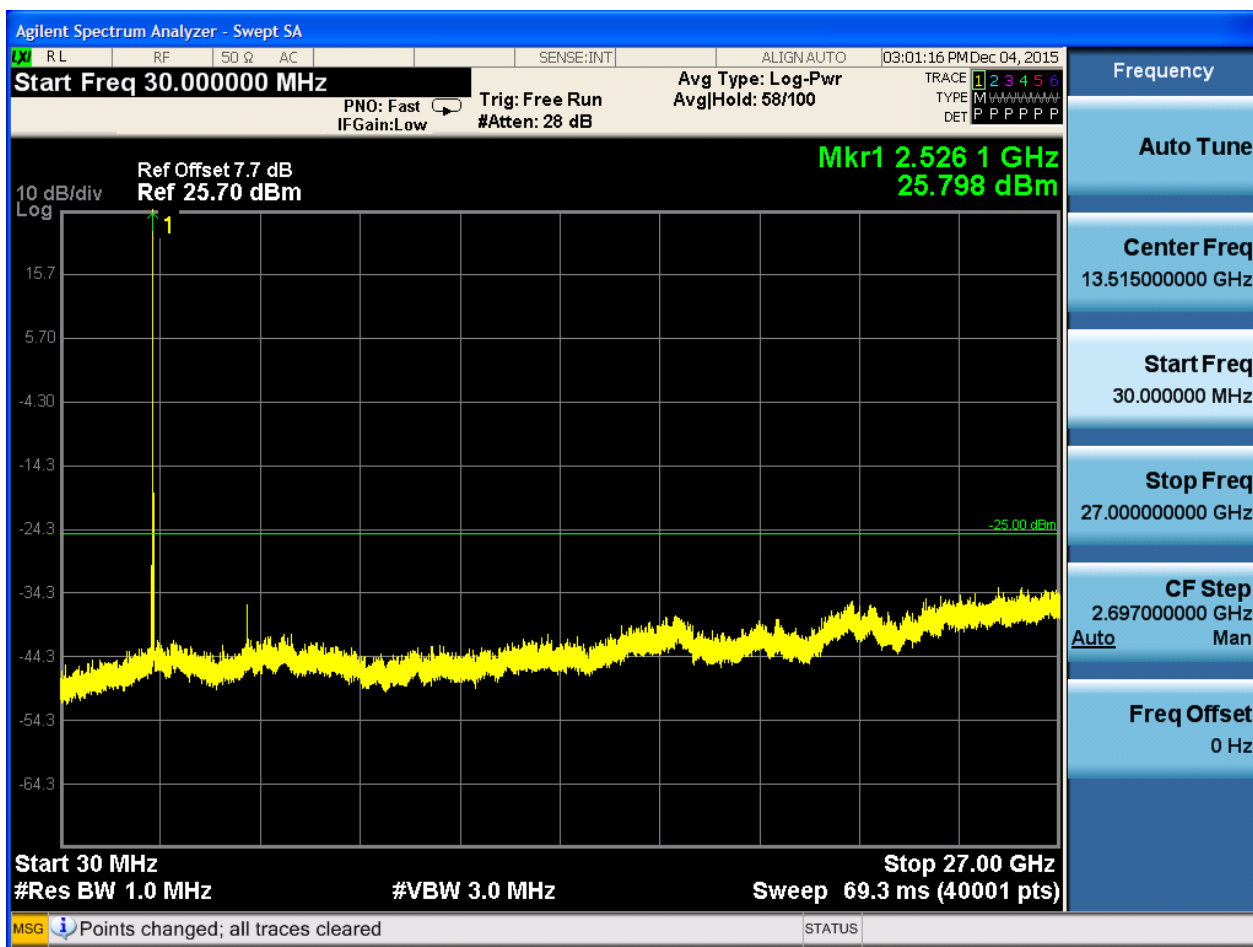


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





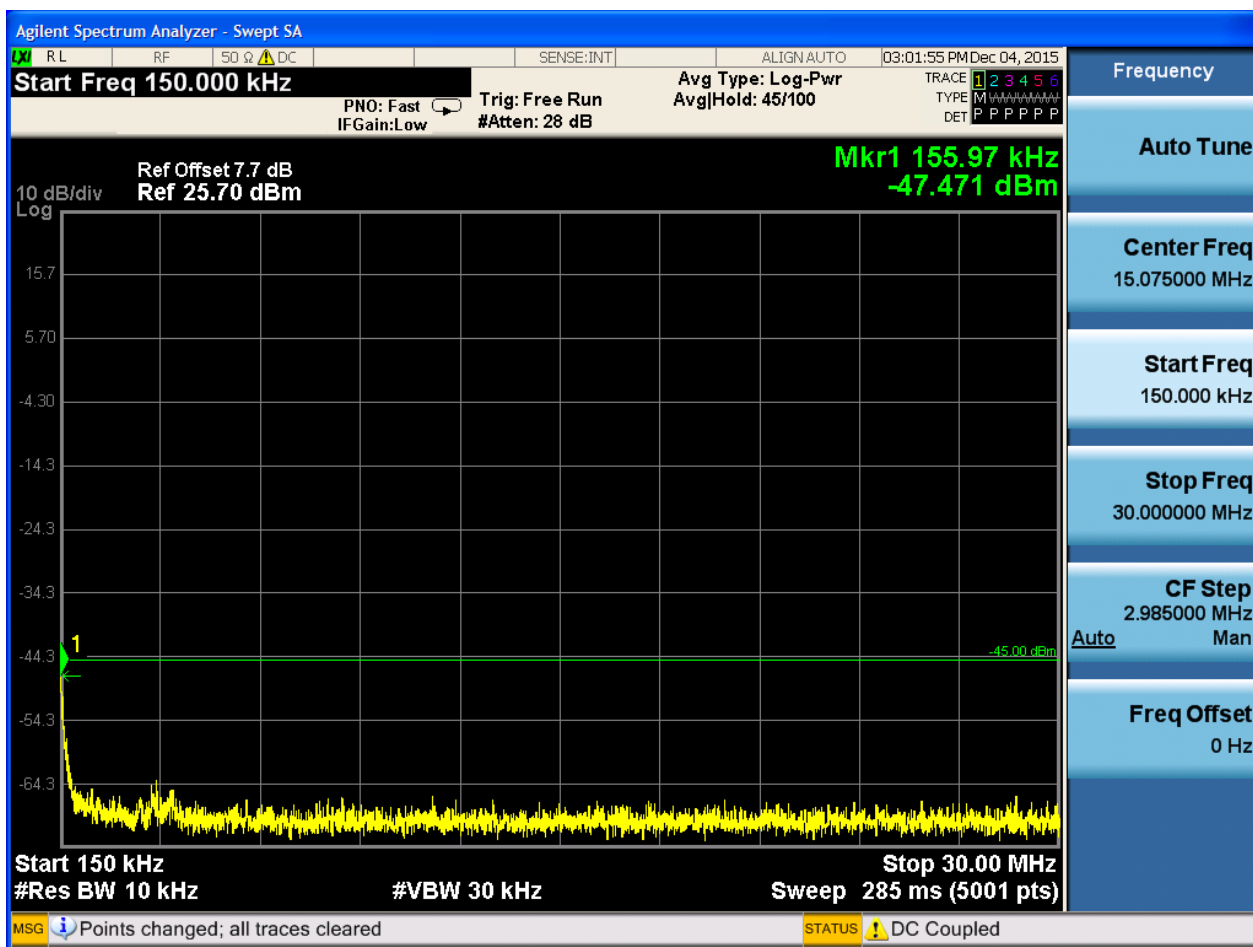


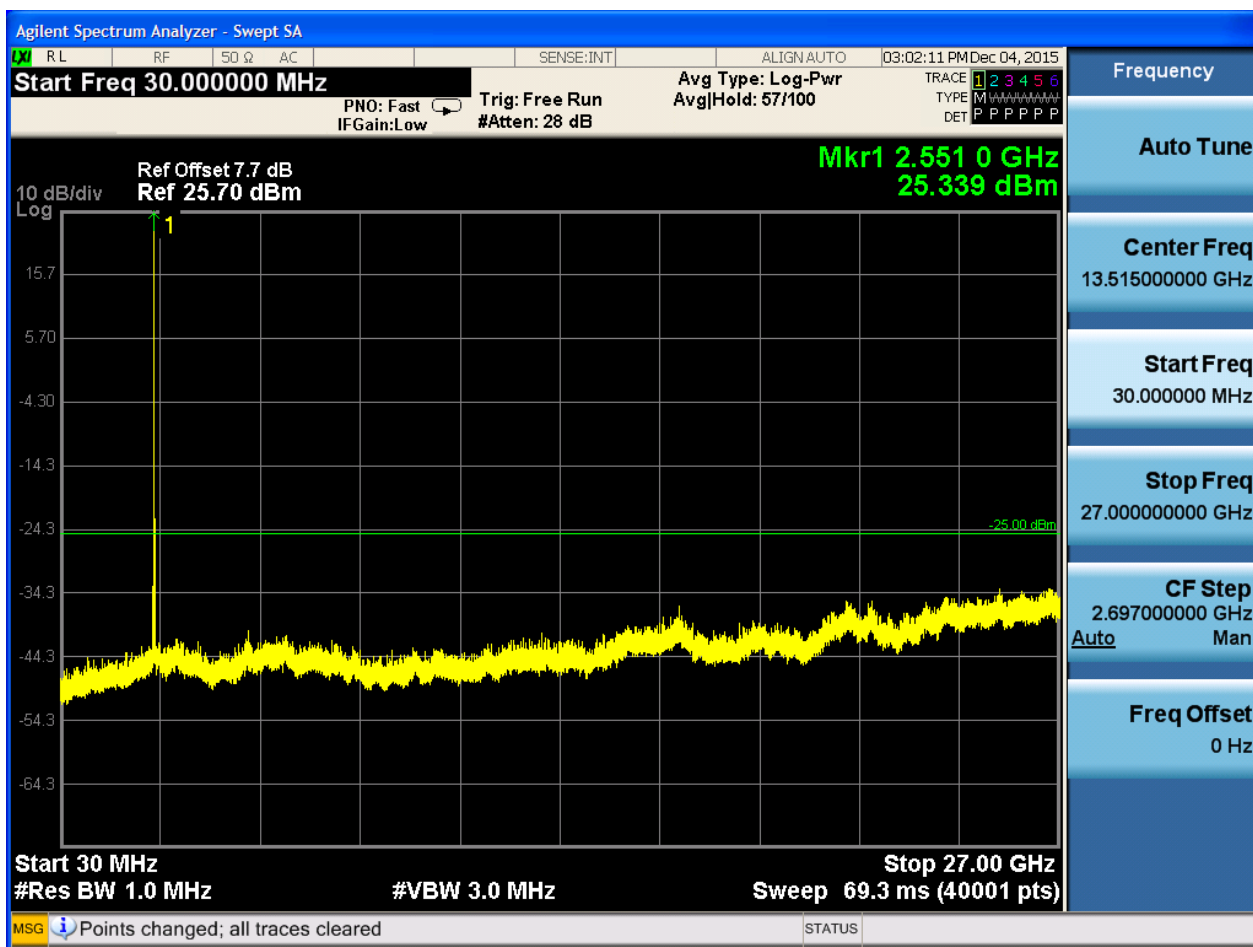


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







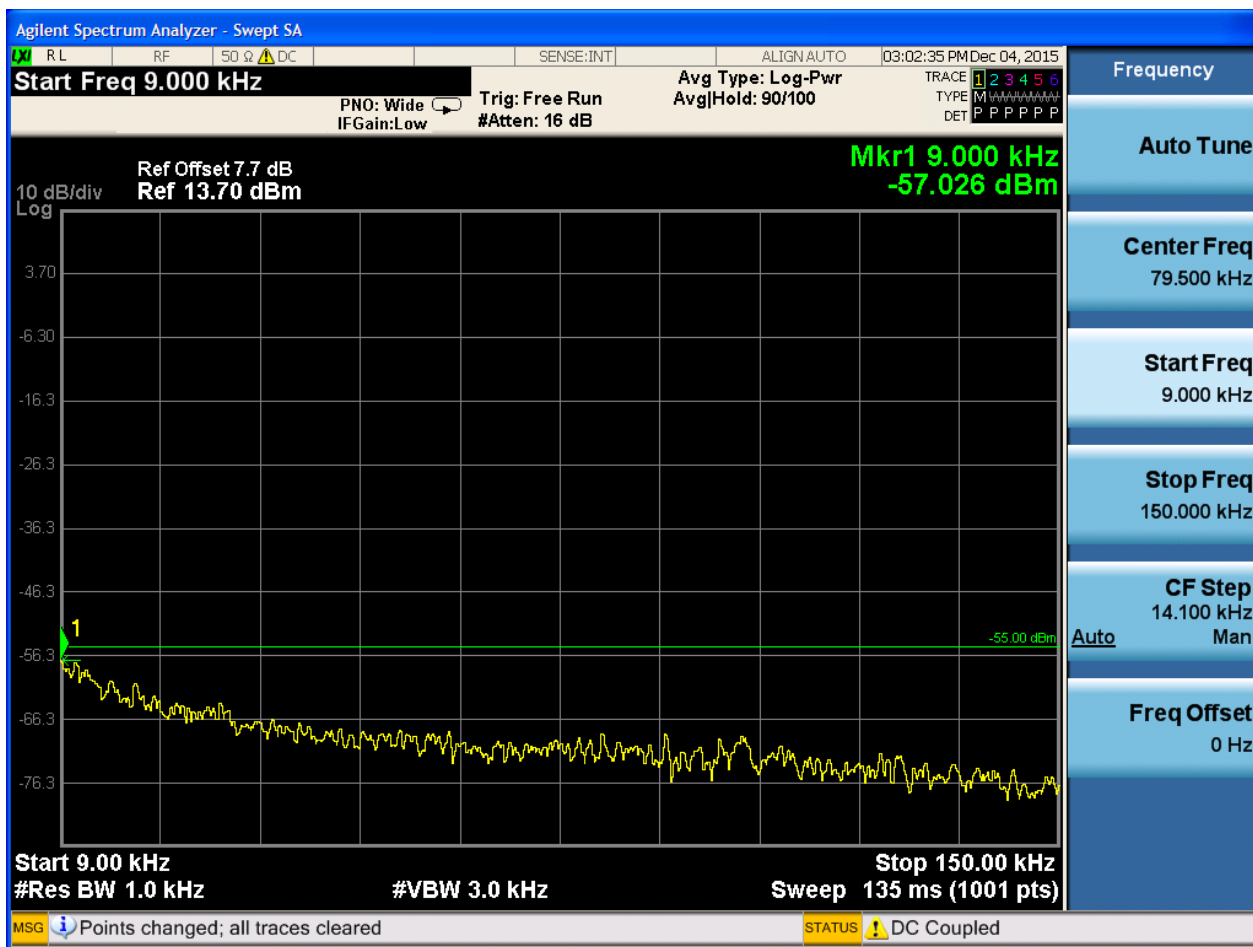


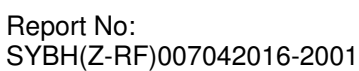
6.1.1.2 Test Mode = LTE/TM2

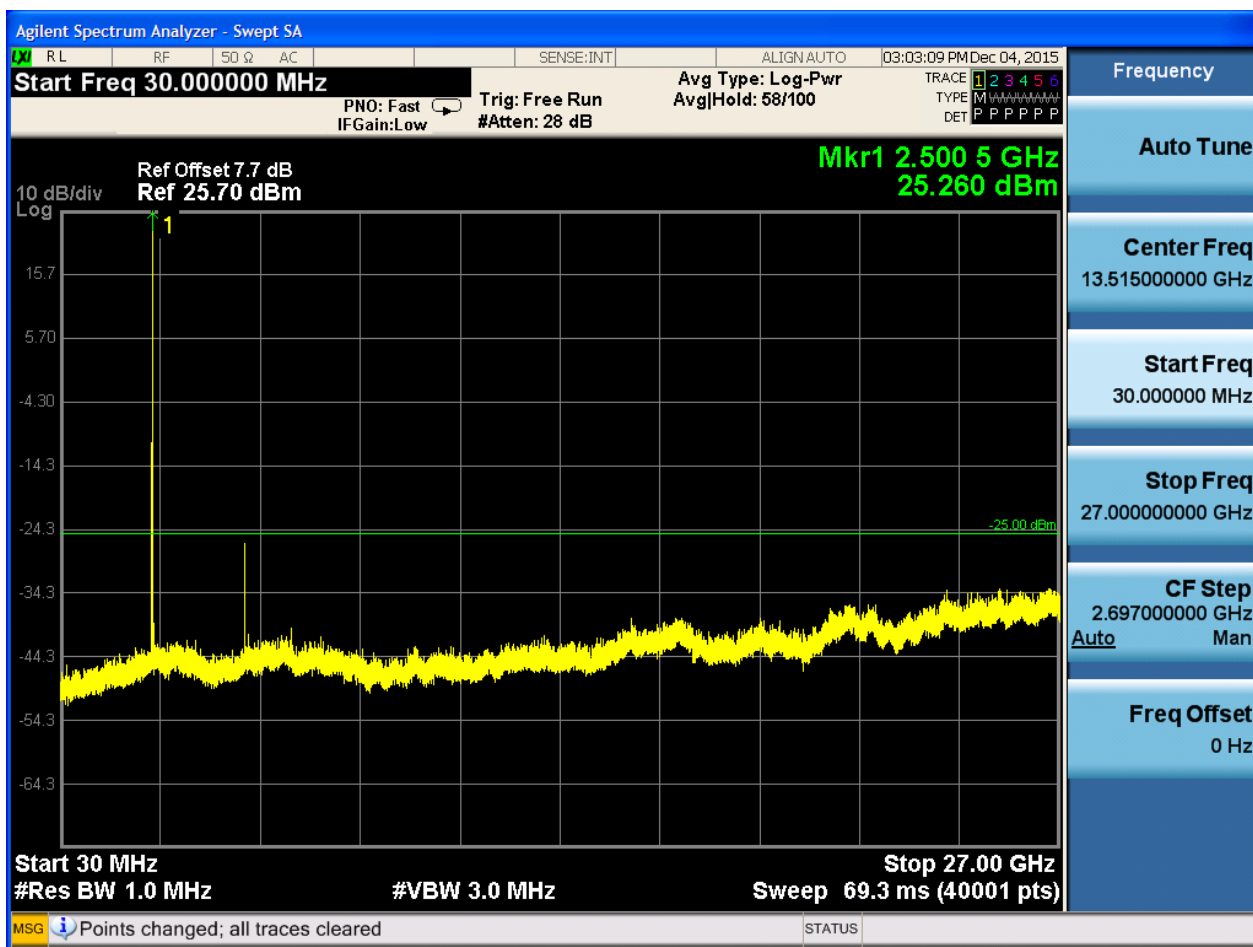
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



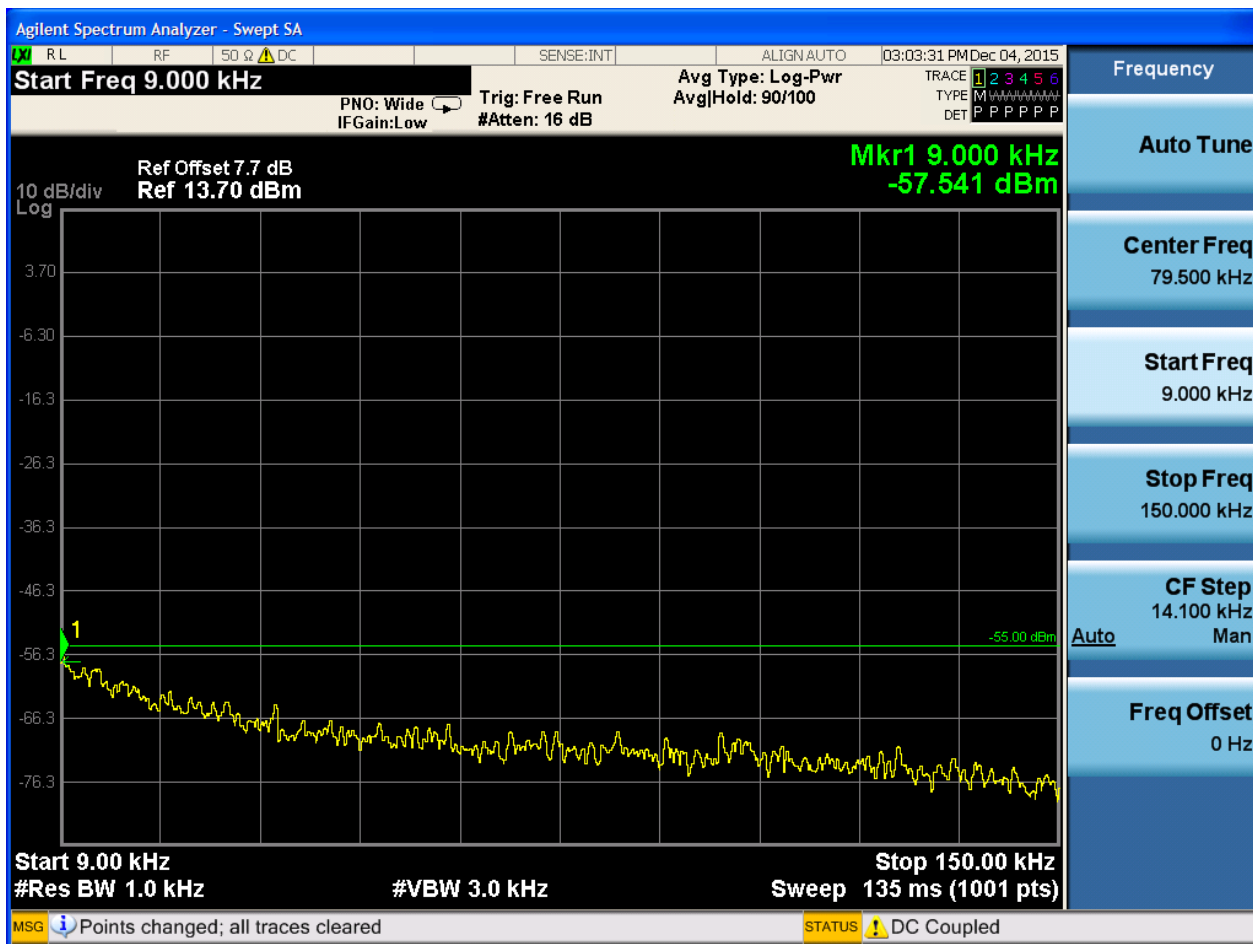


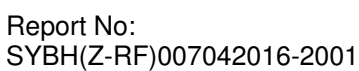


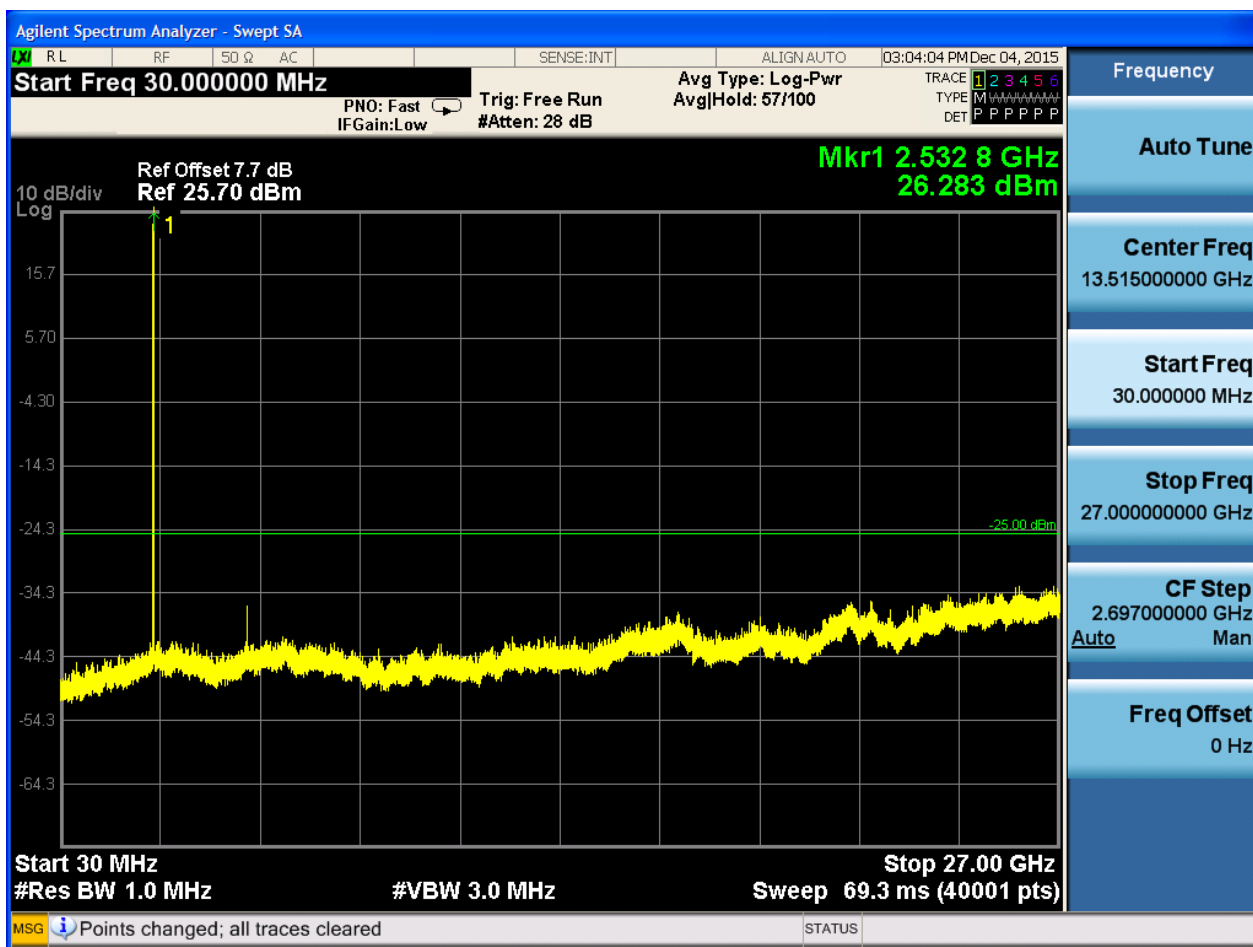


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



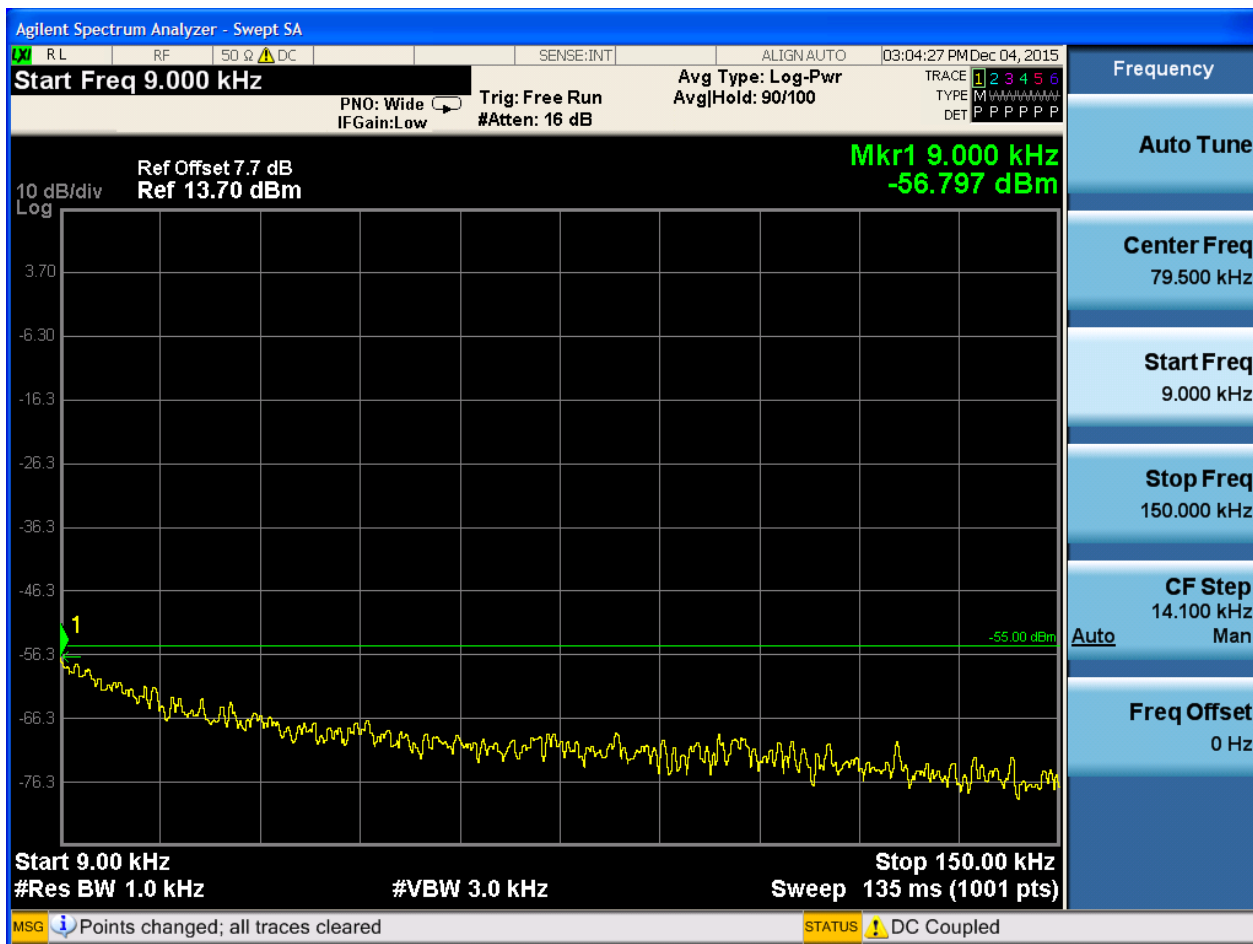


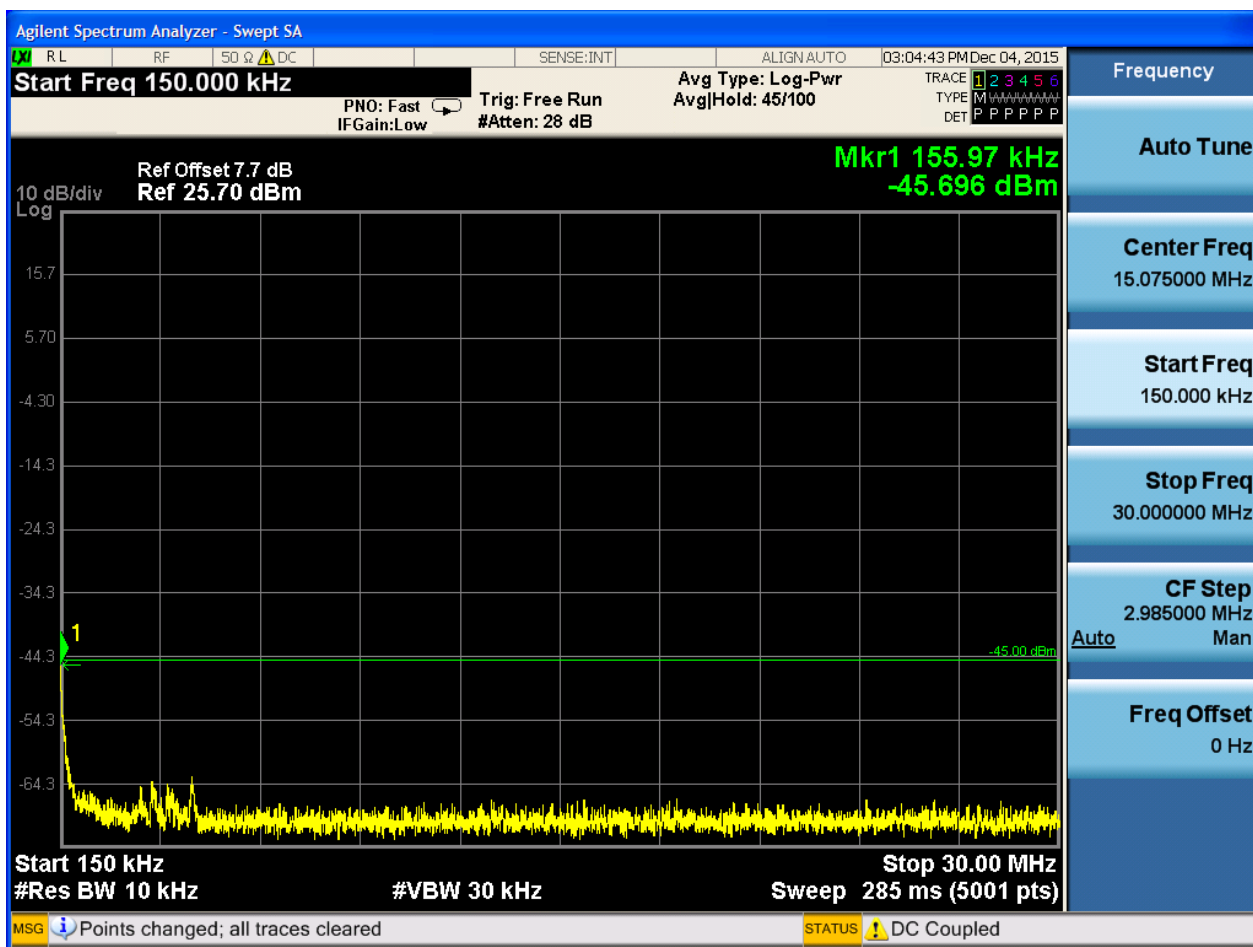


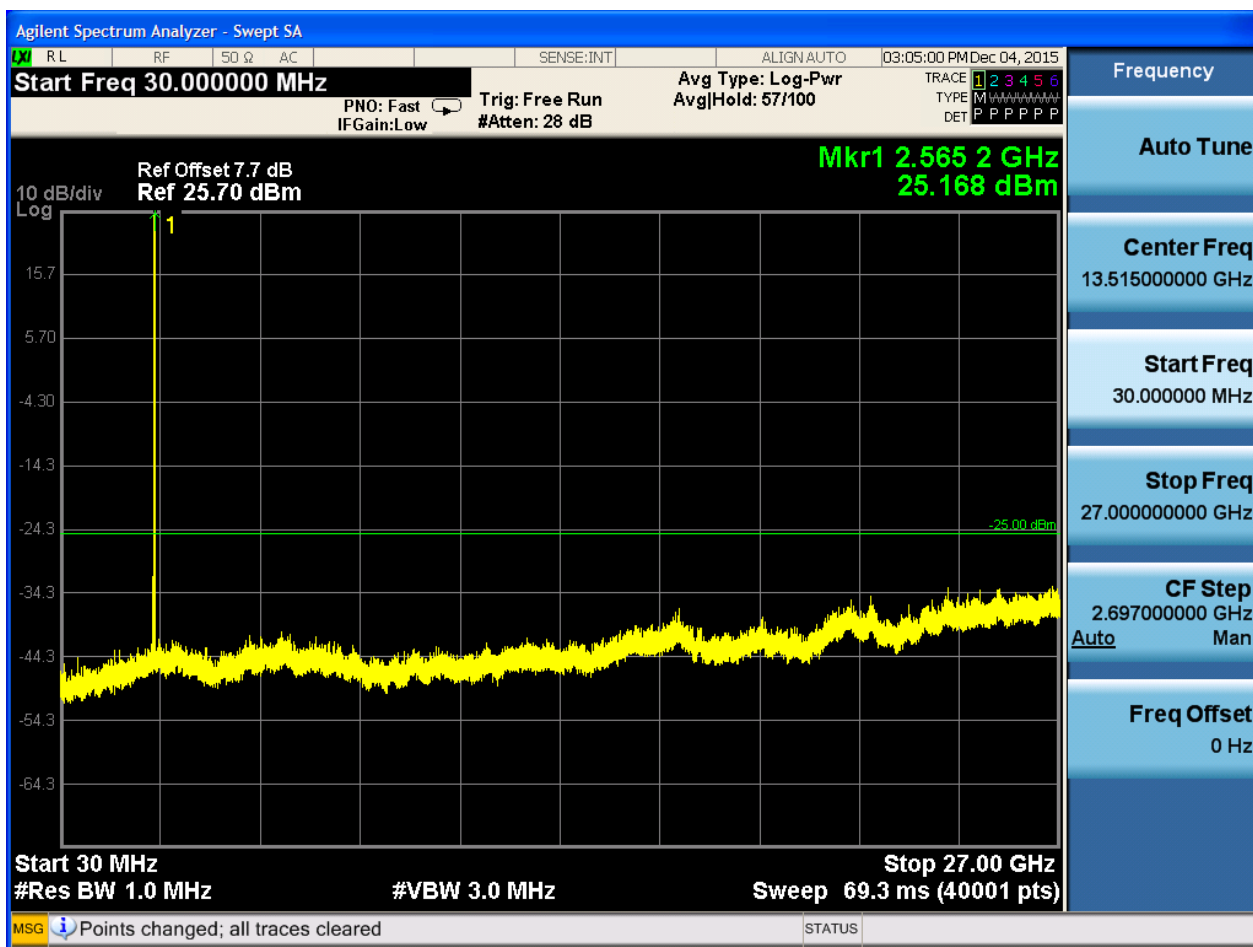


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



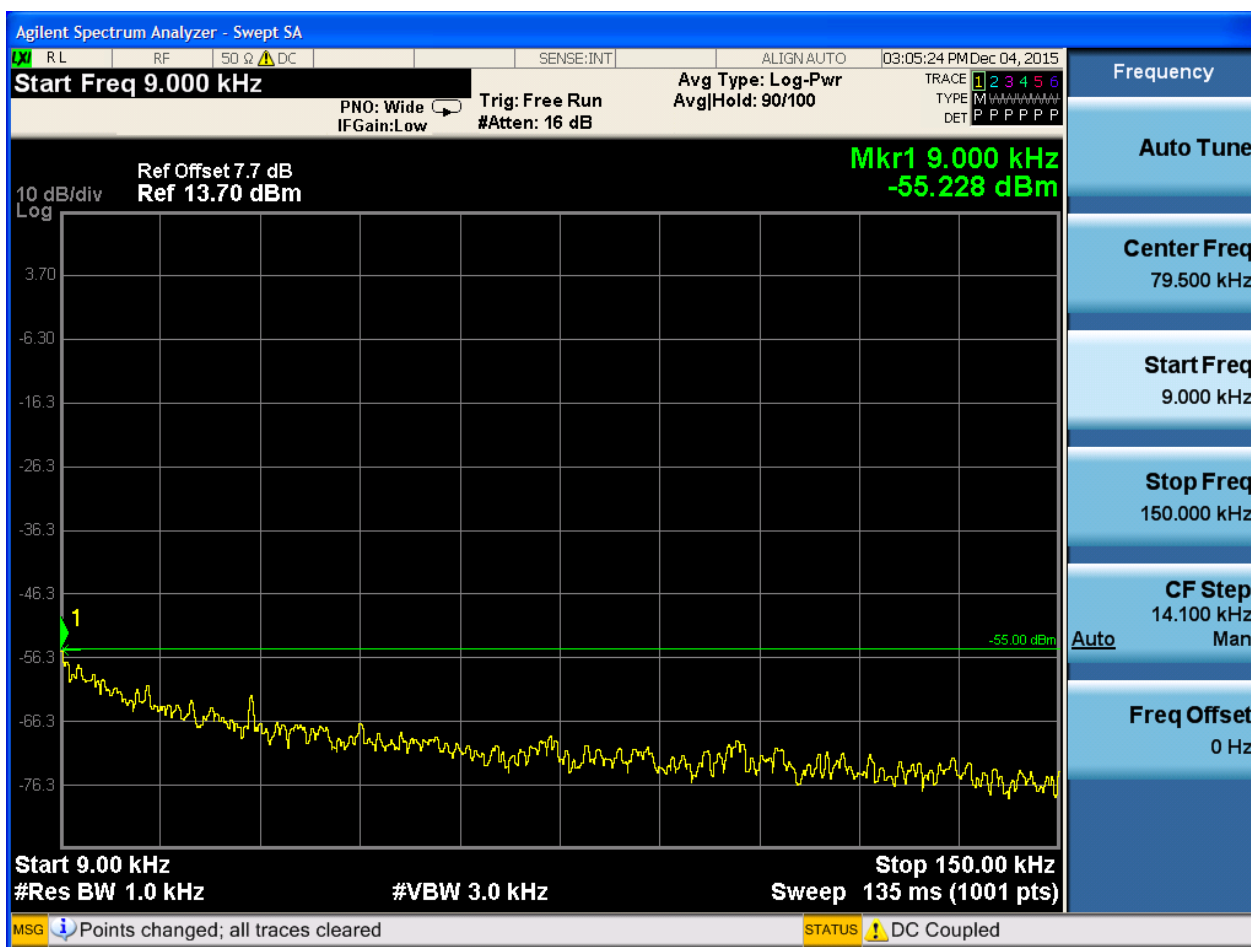


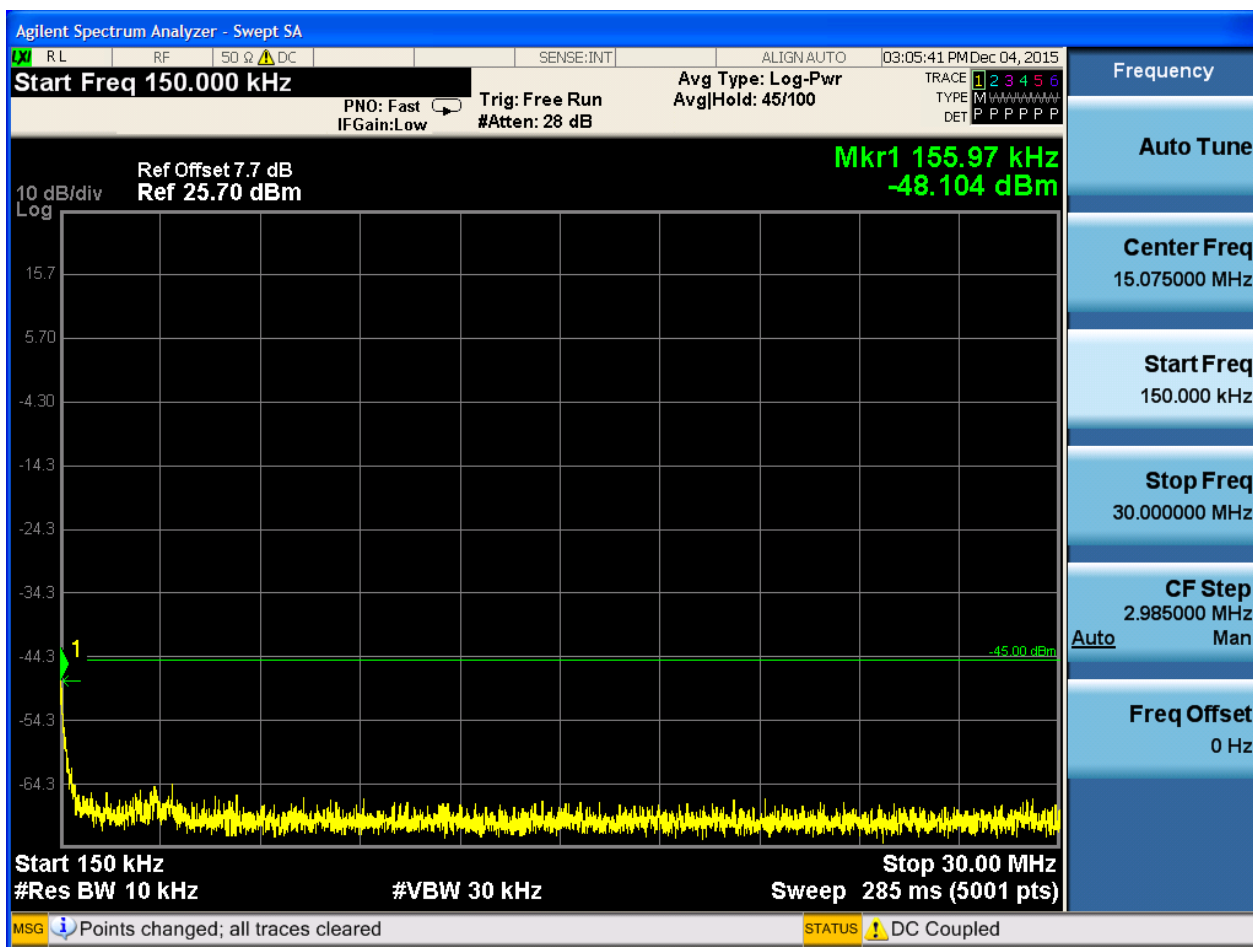


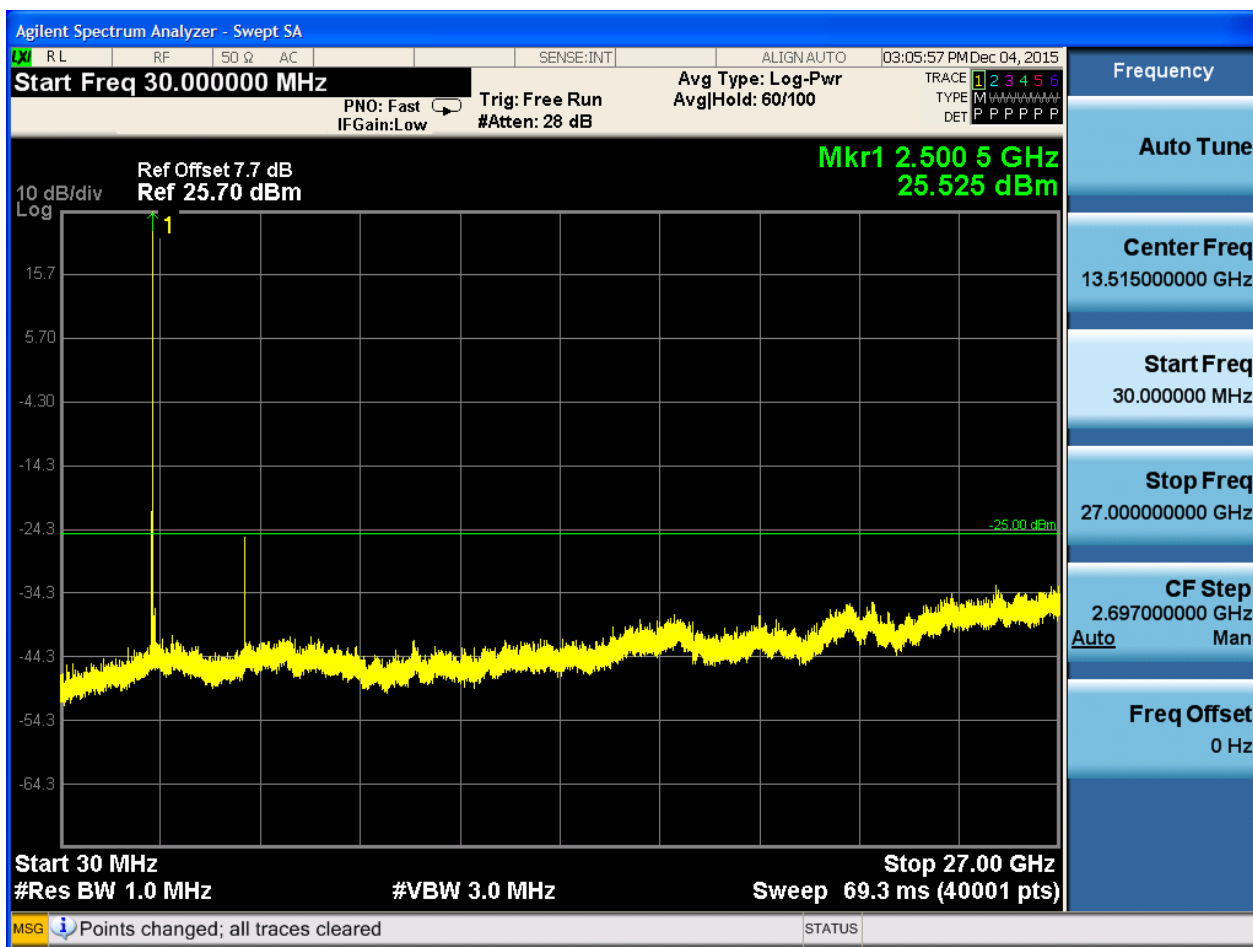
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



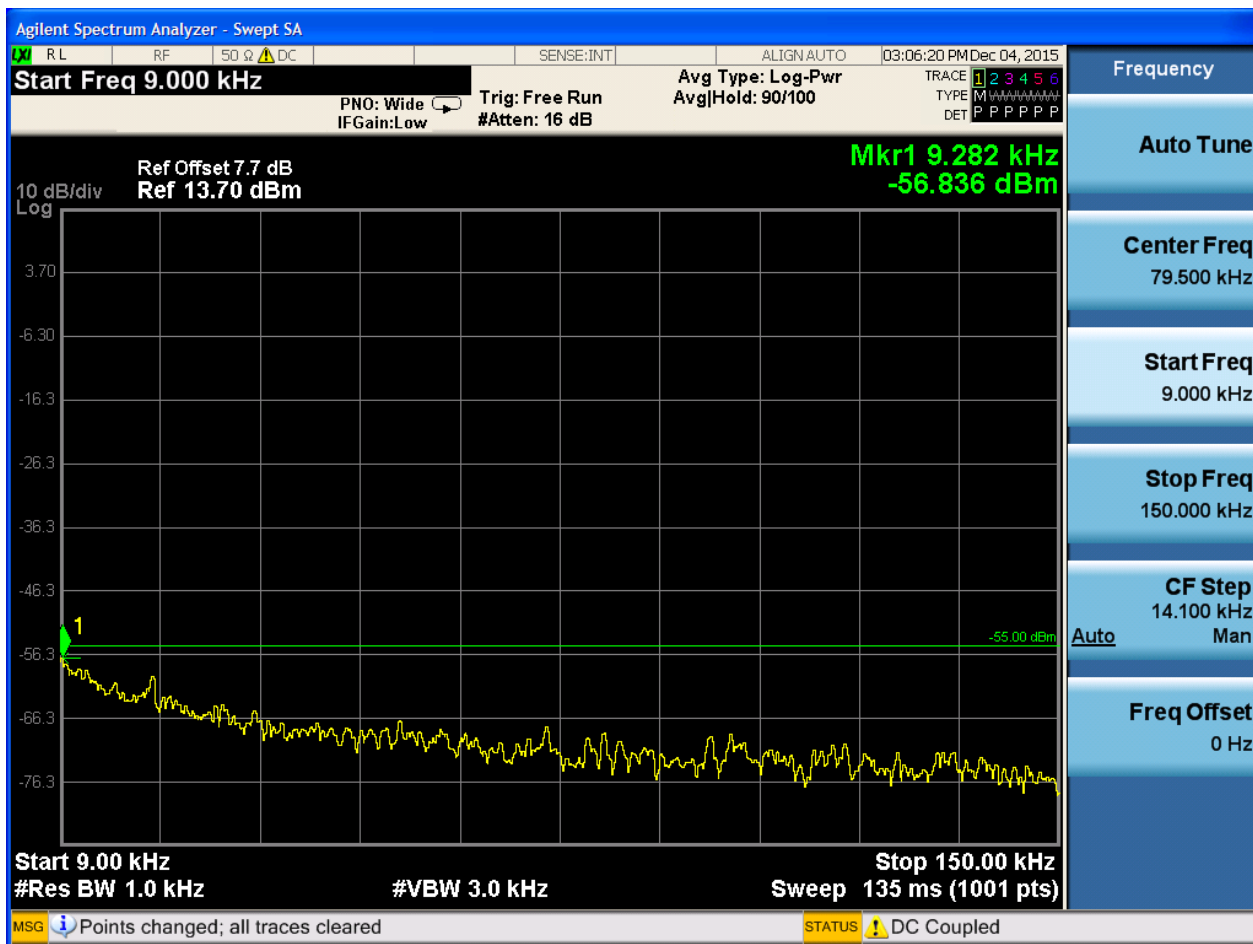


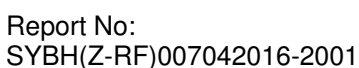


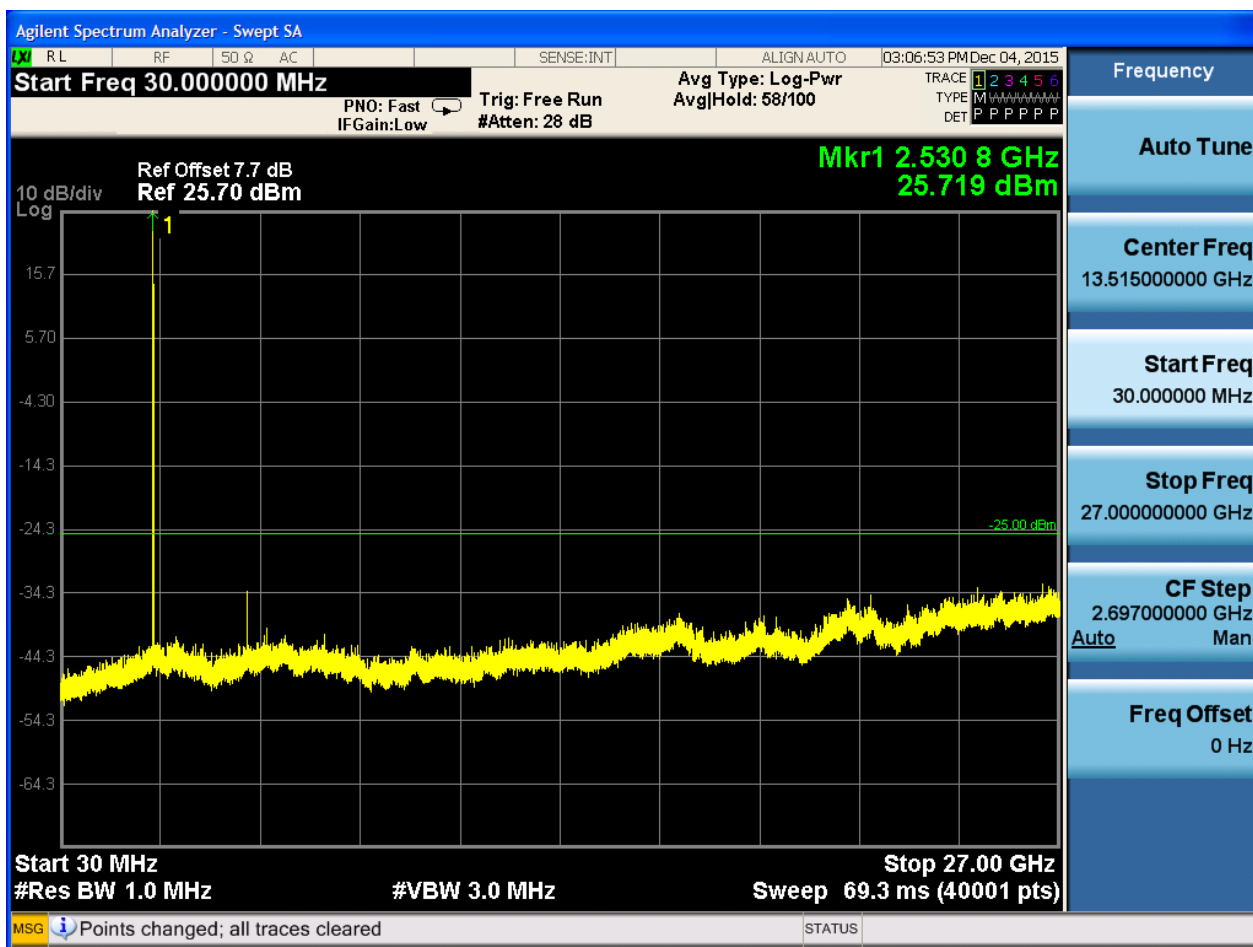


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



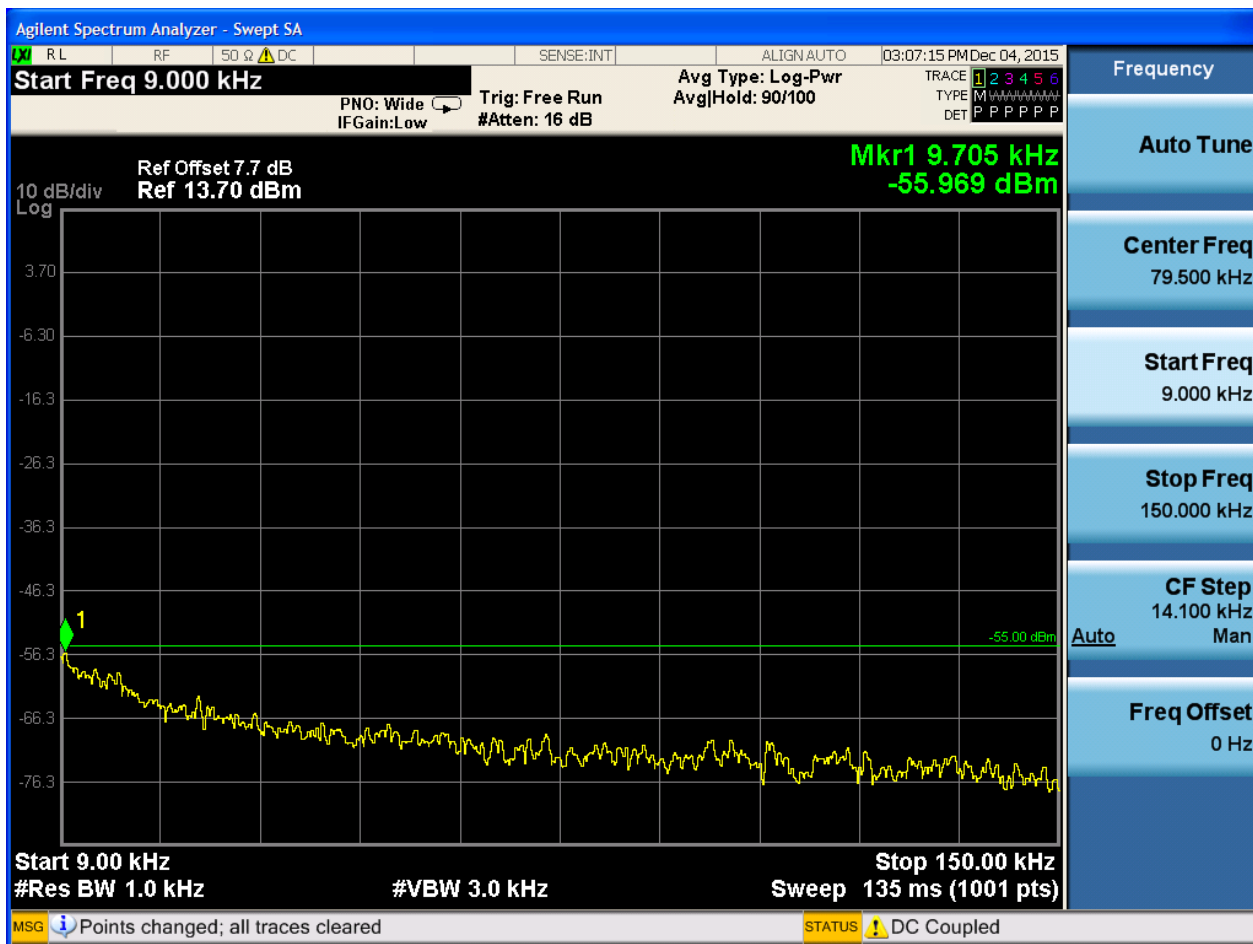


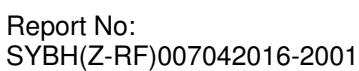


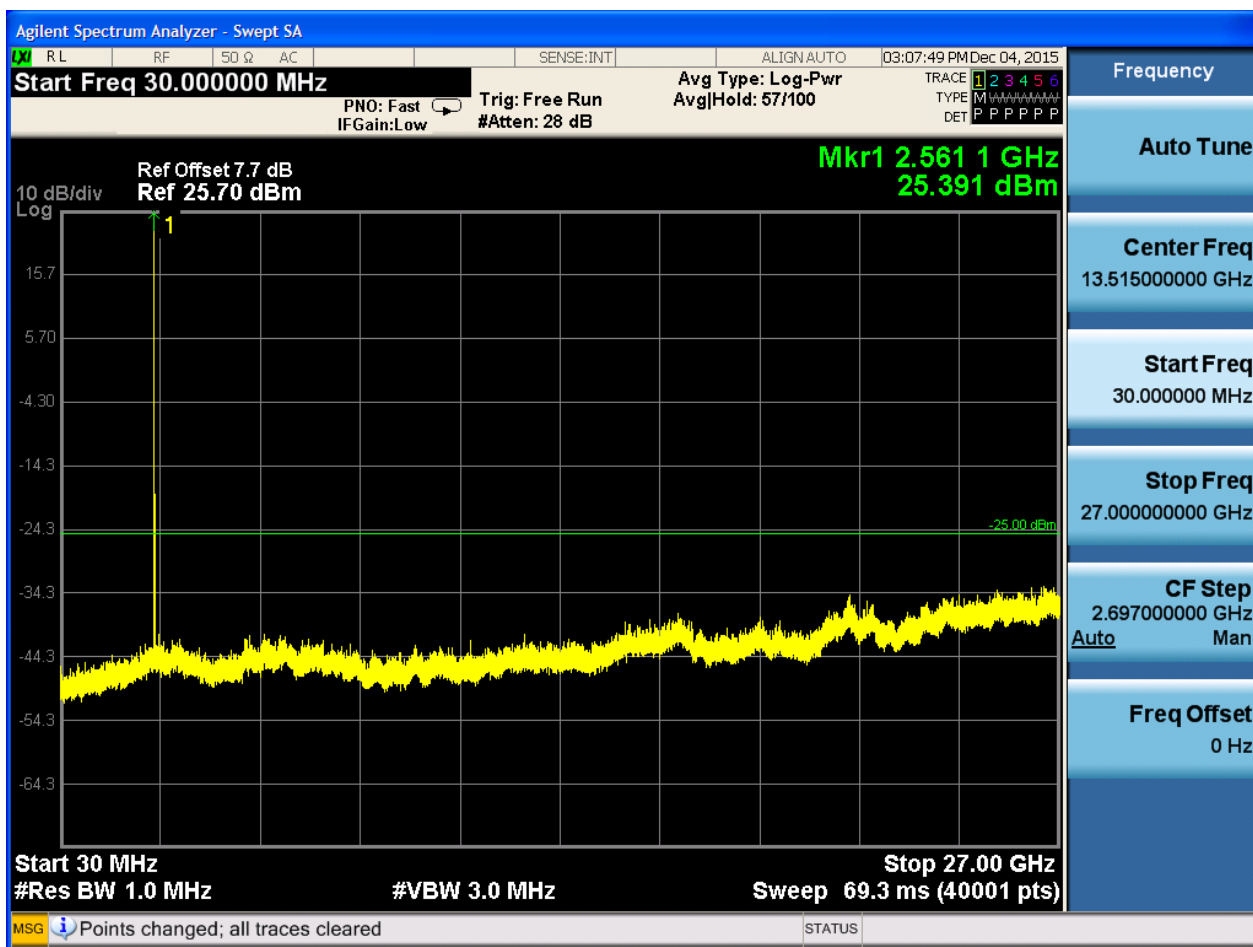


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



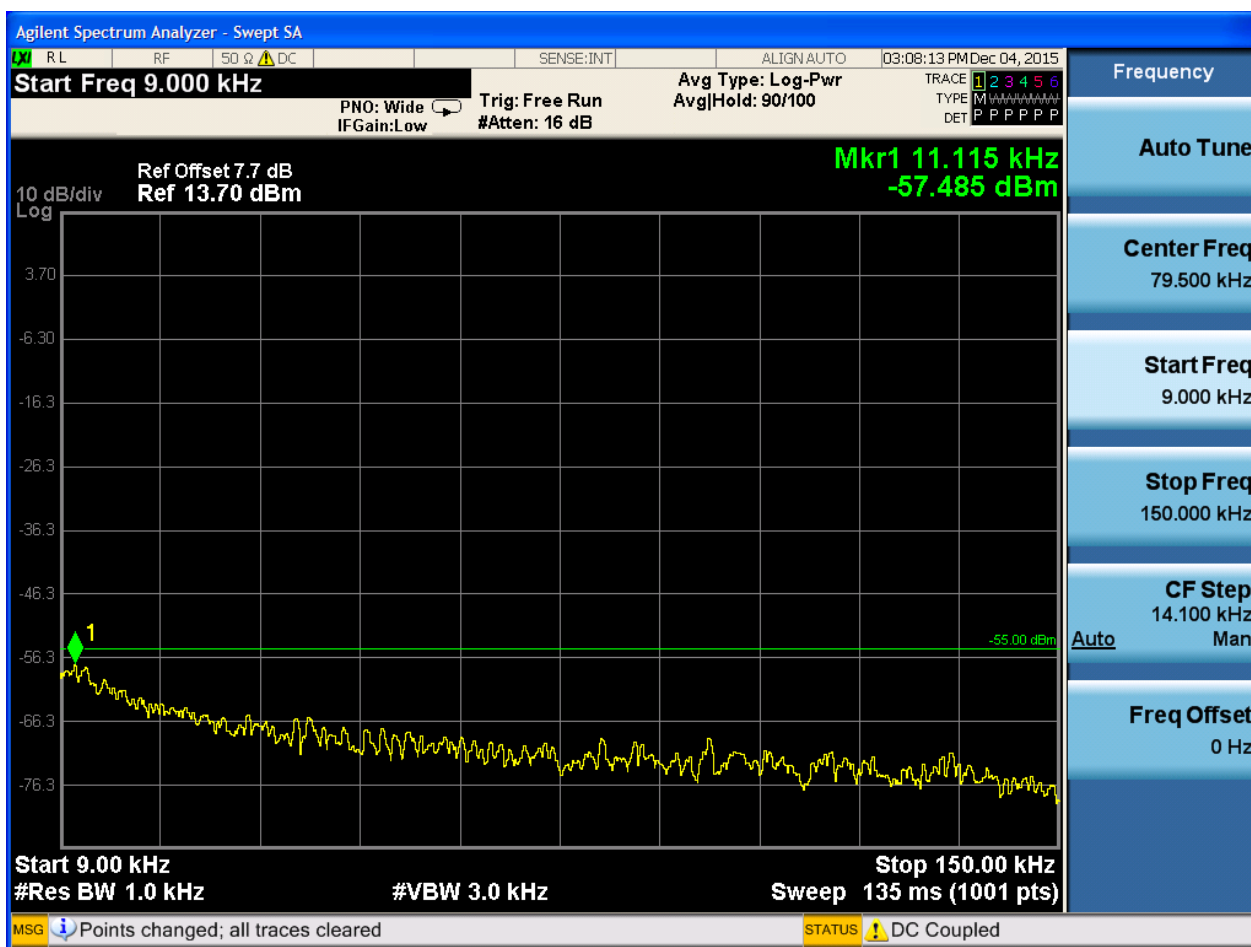


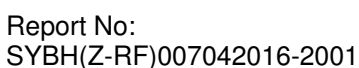


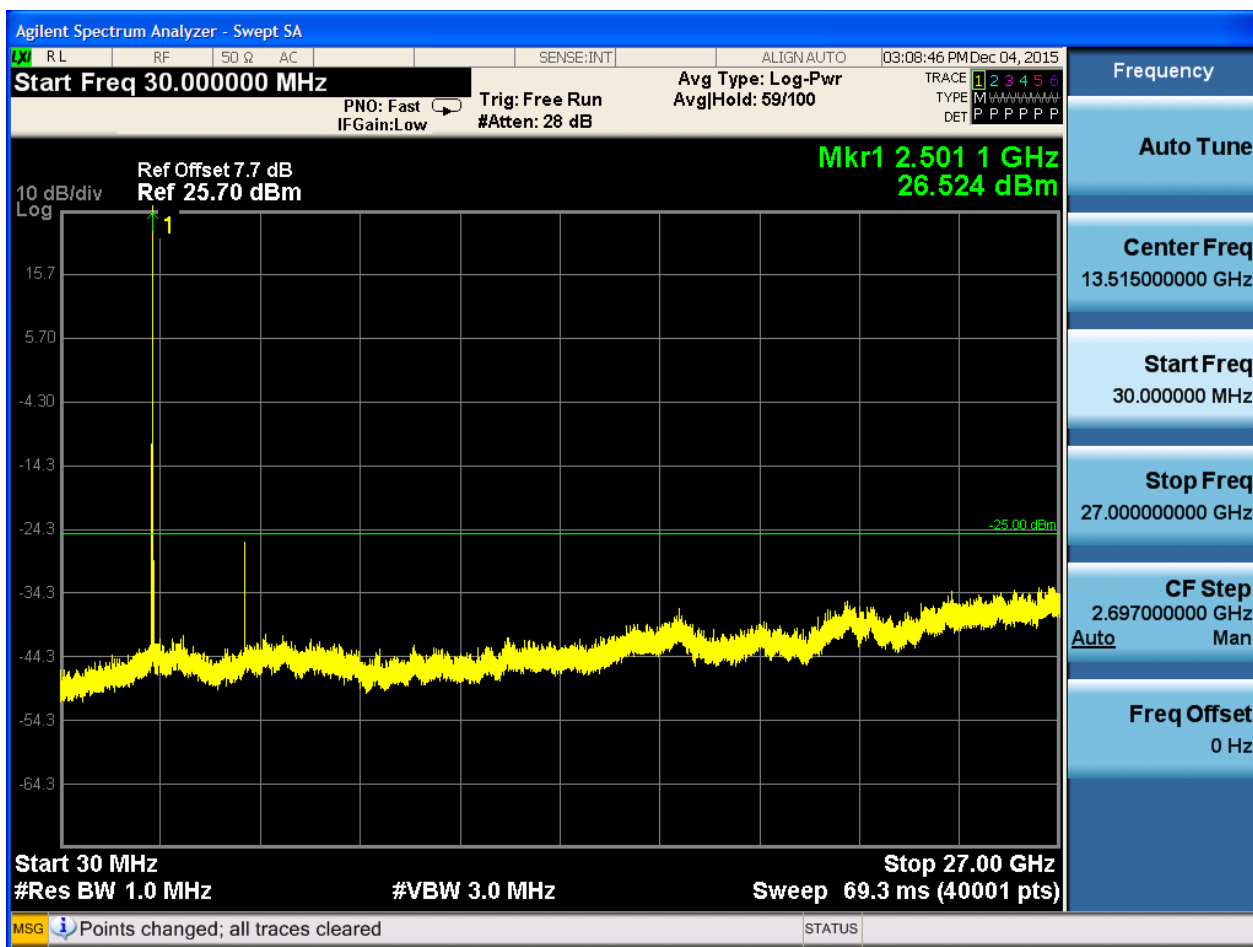
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



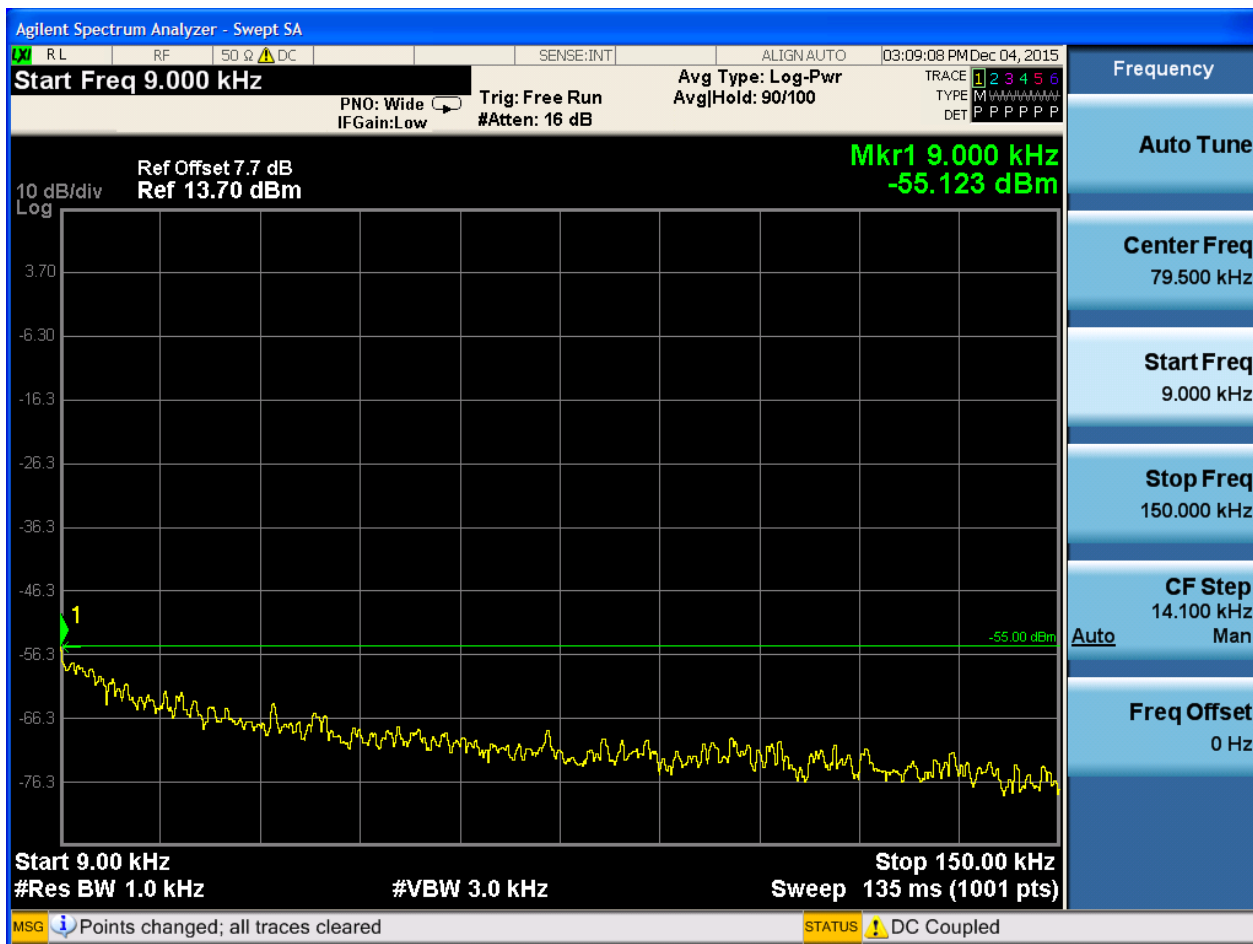


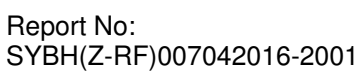


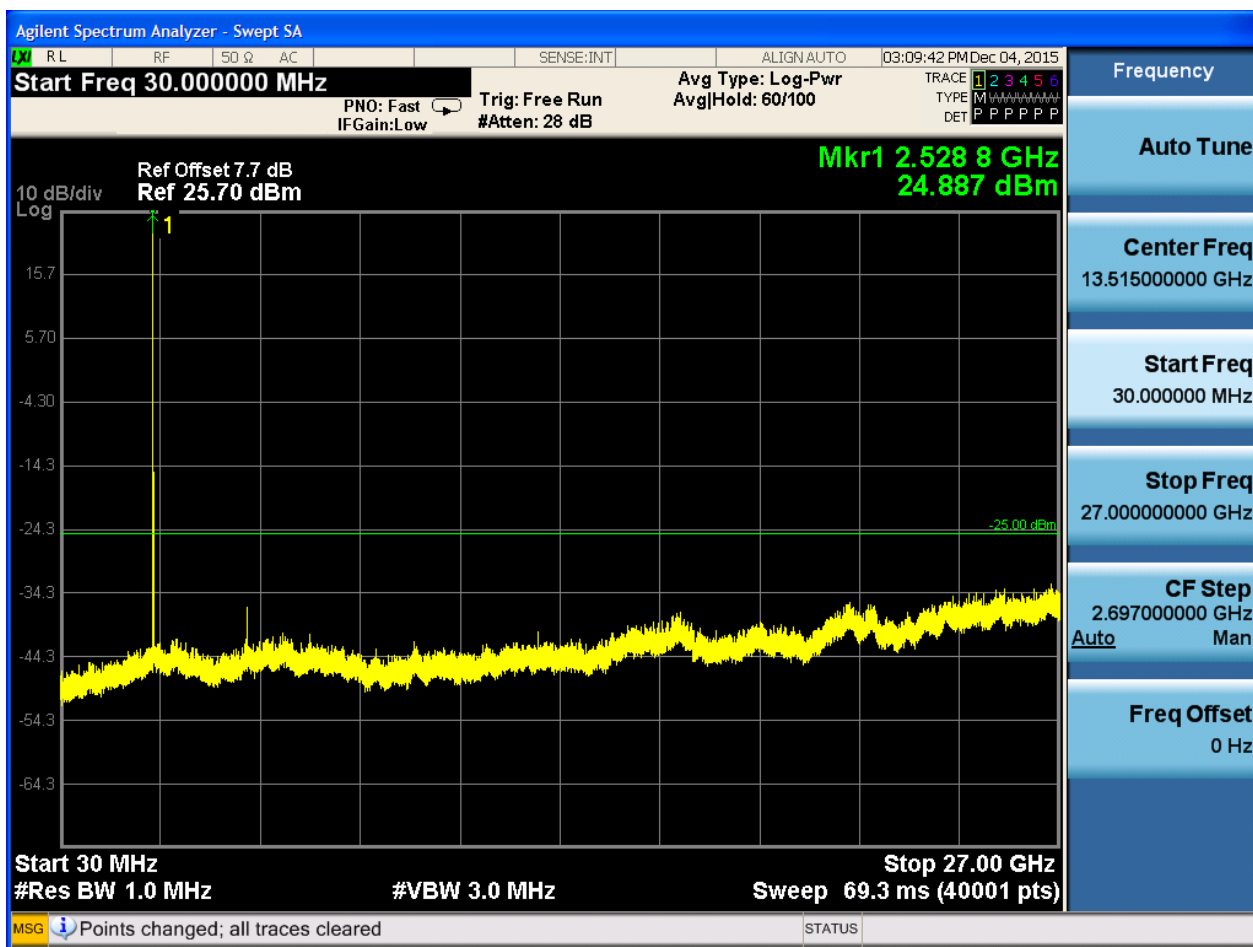


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



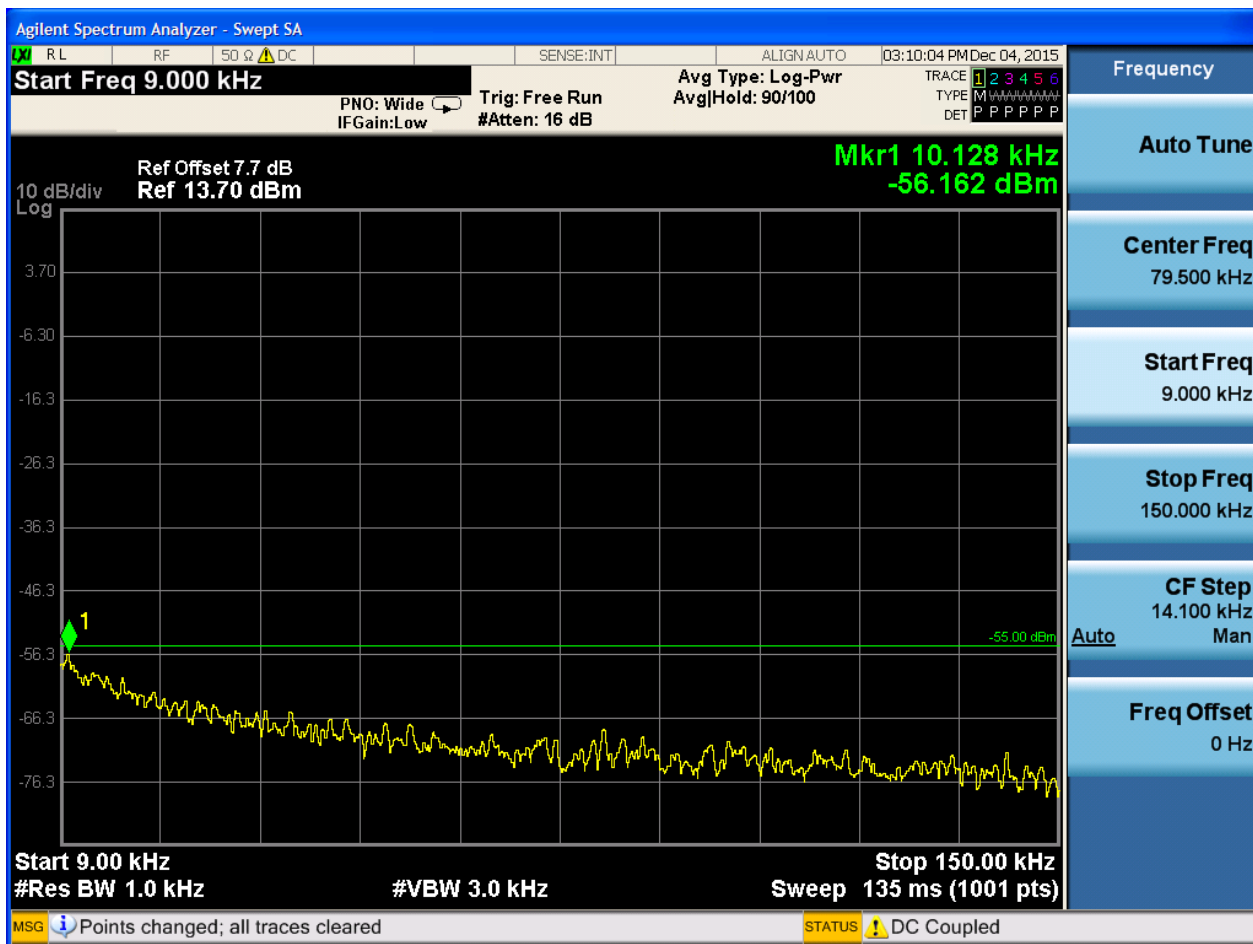


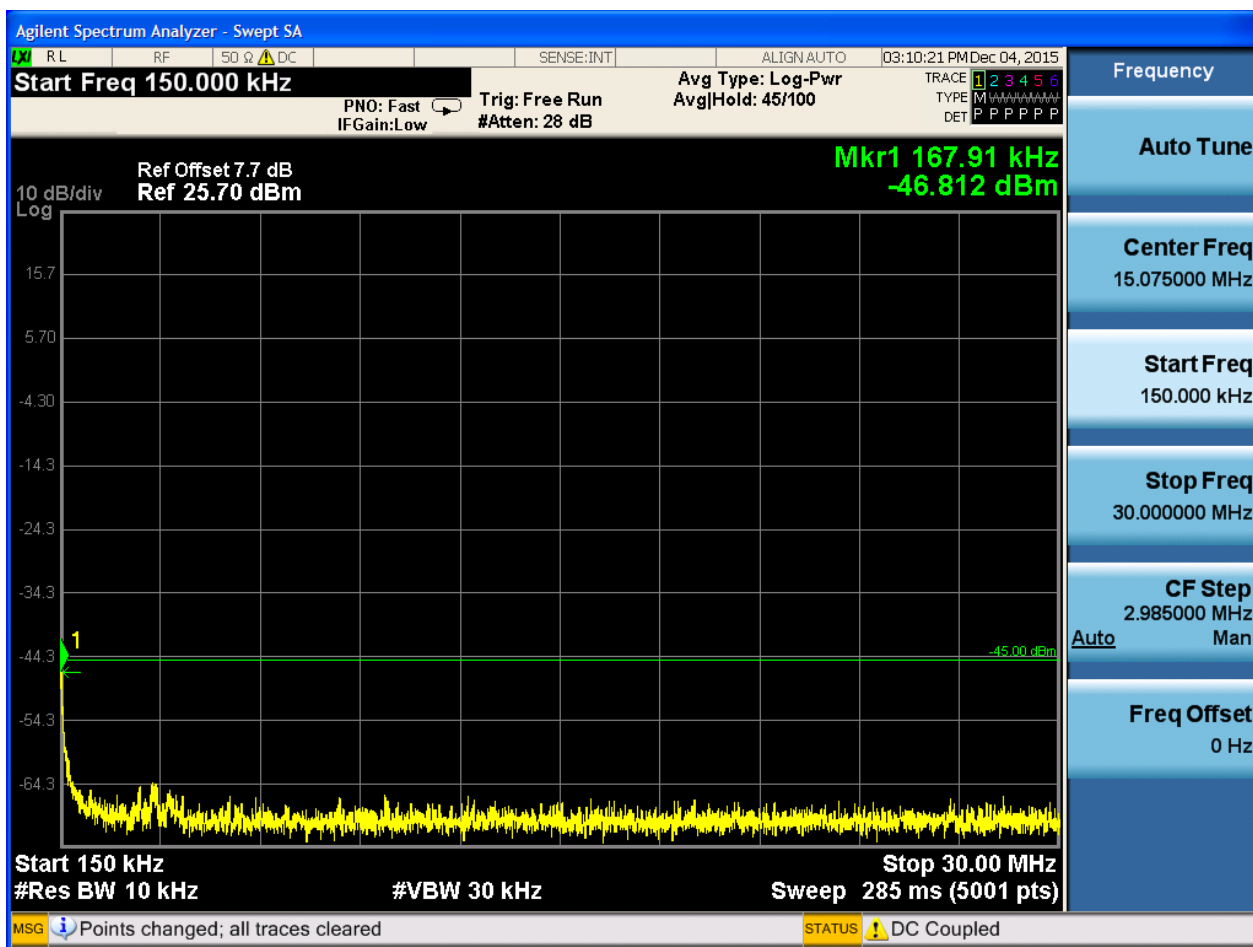


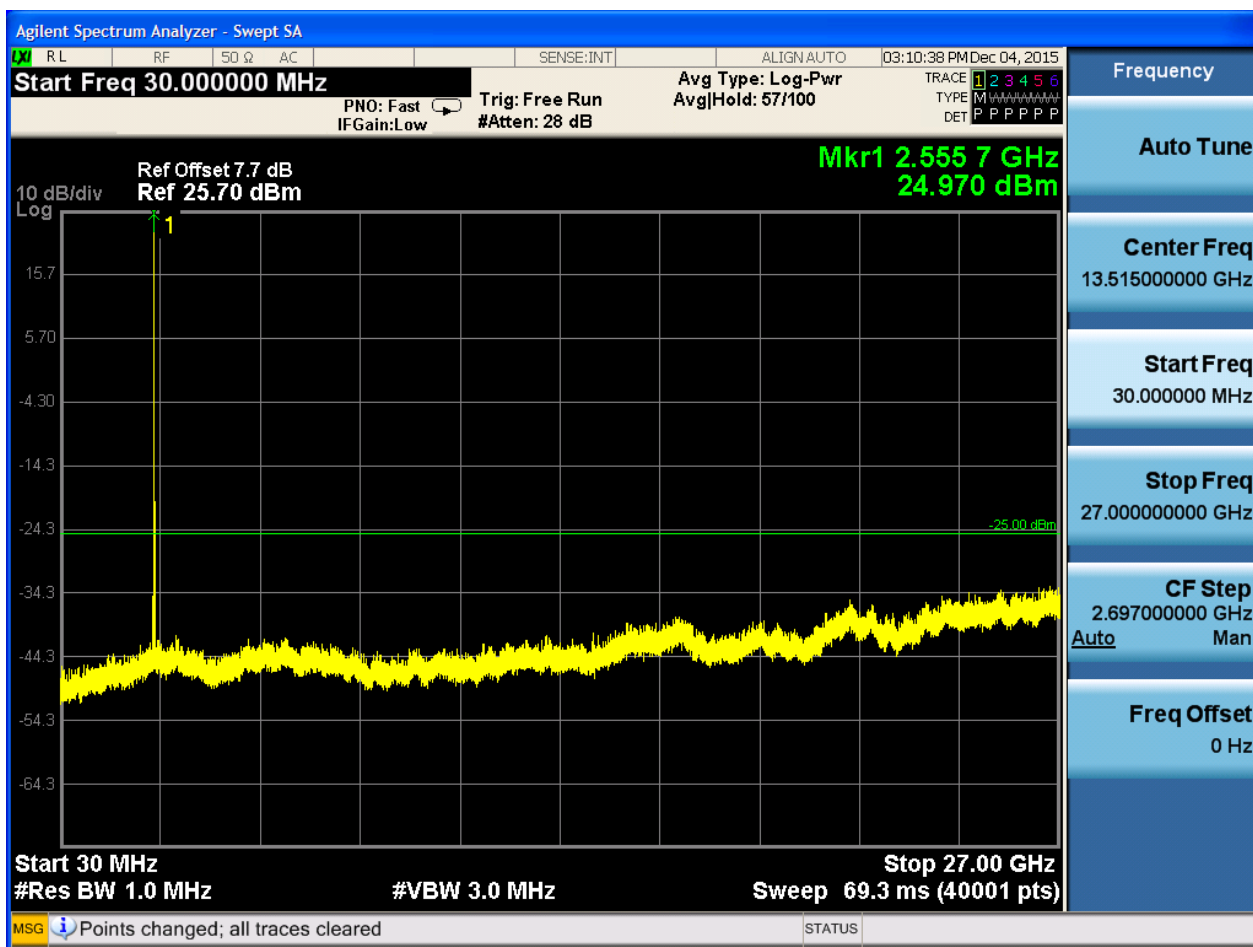


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





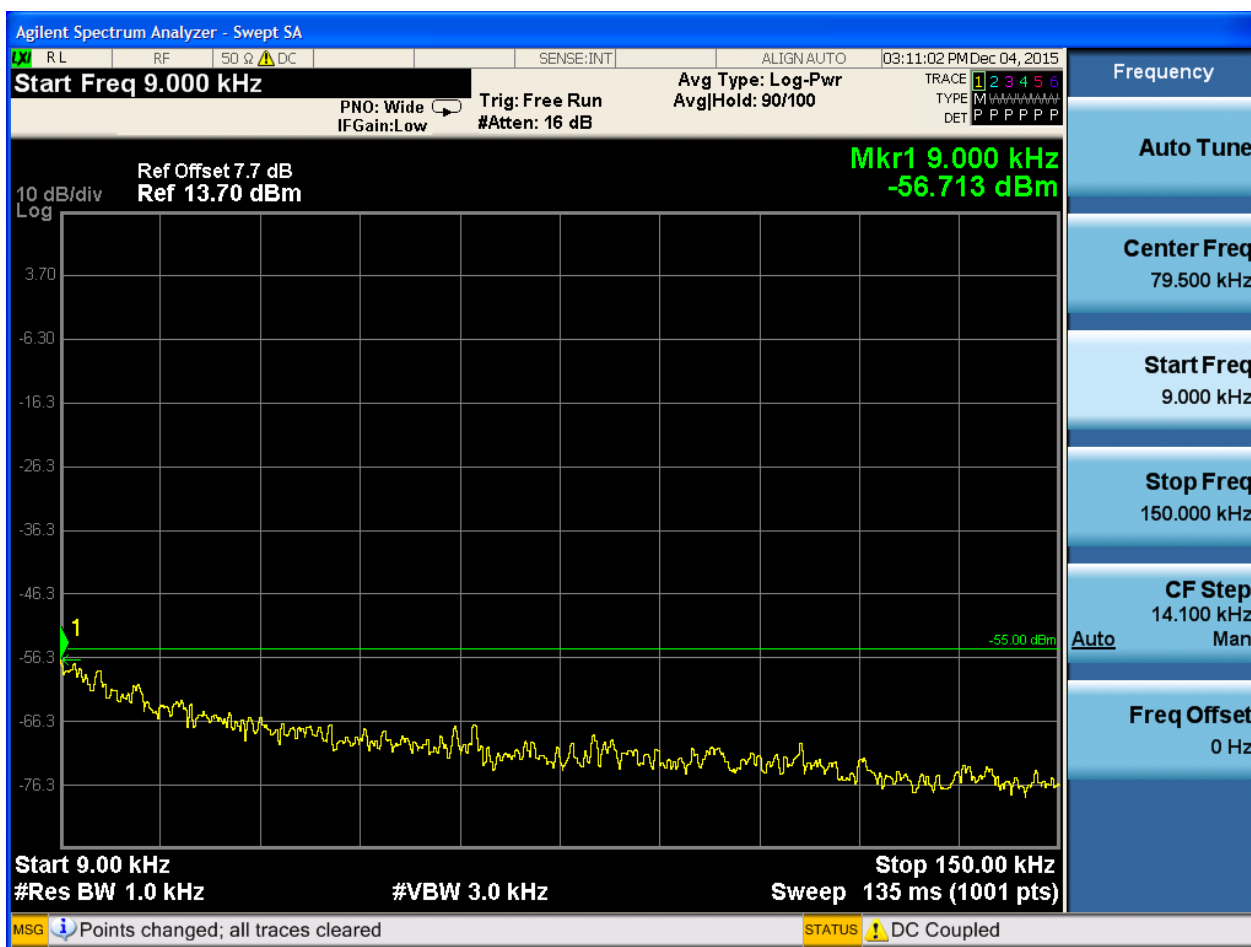


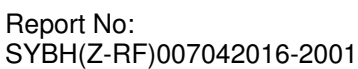


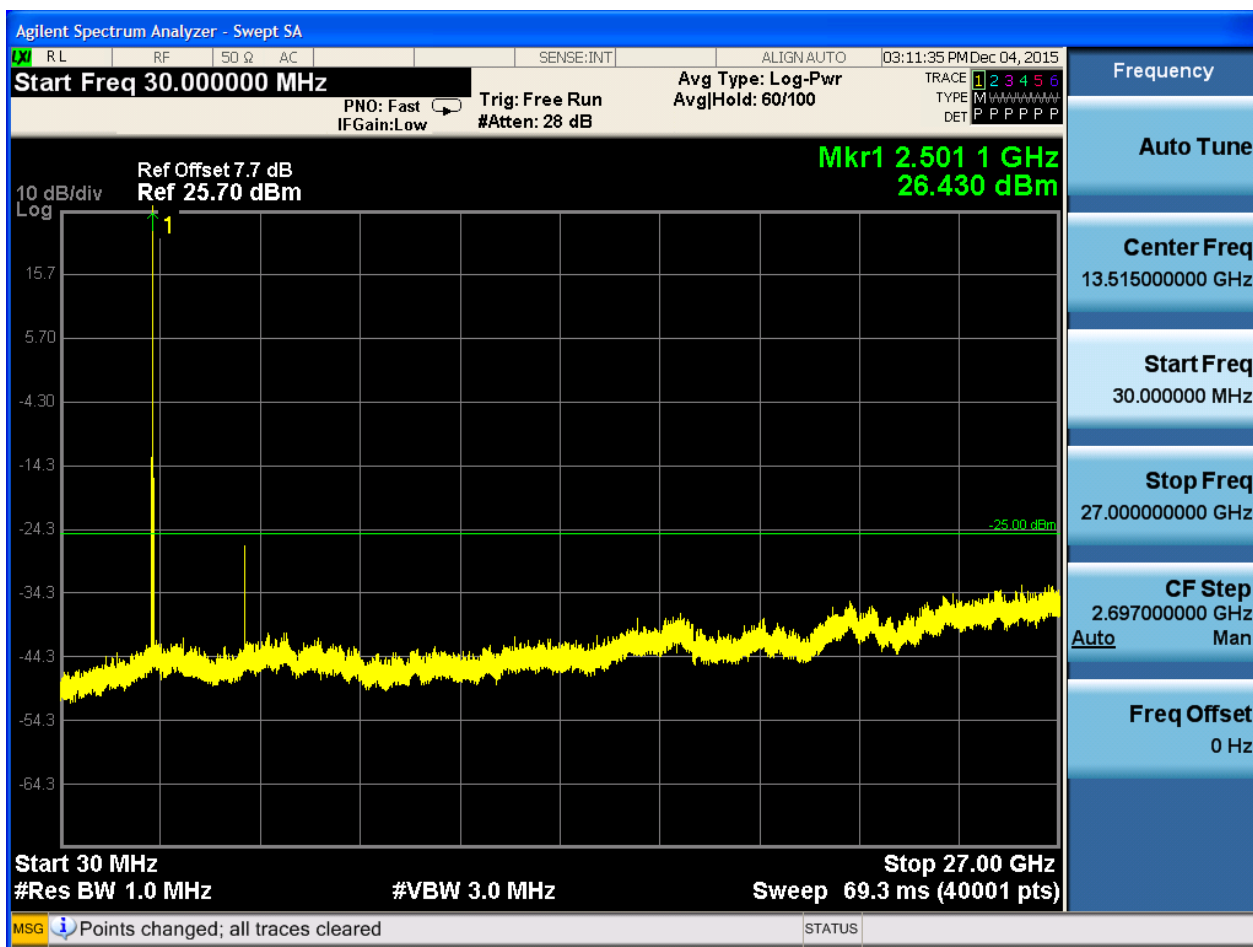
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



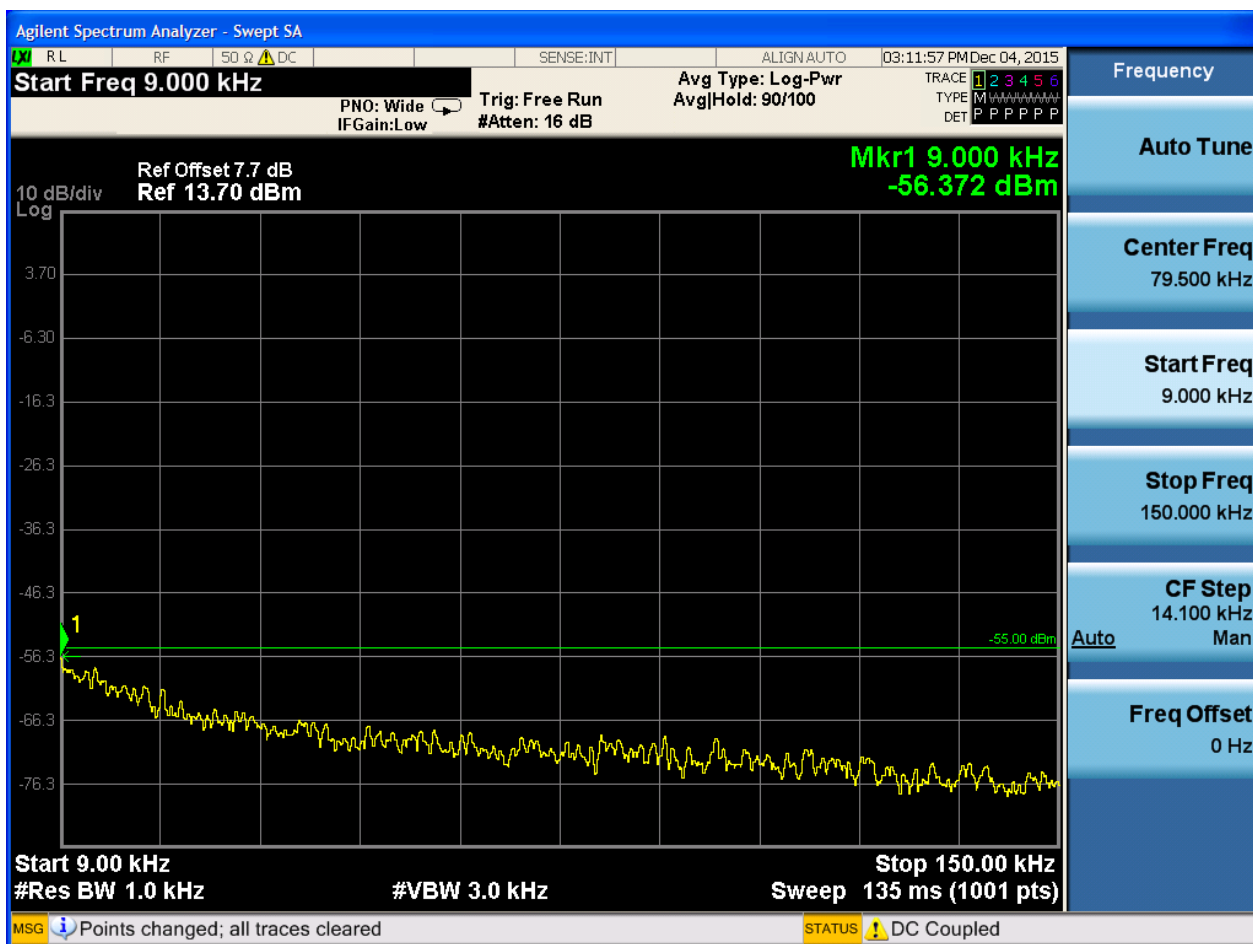


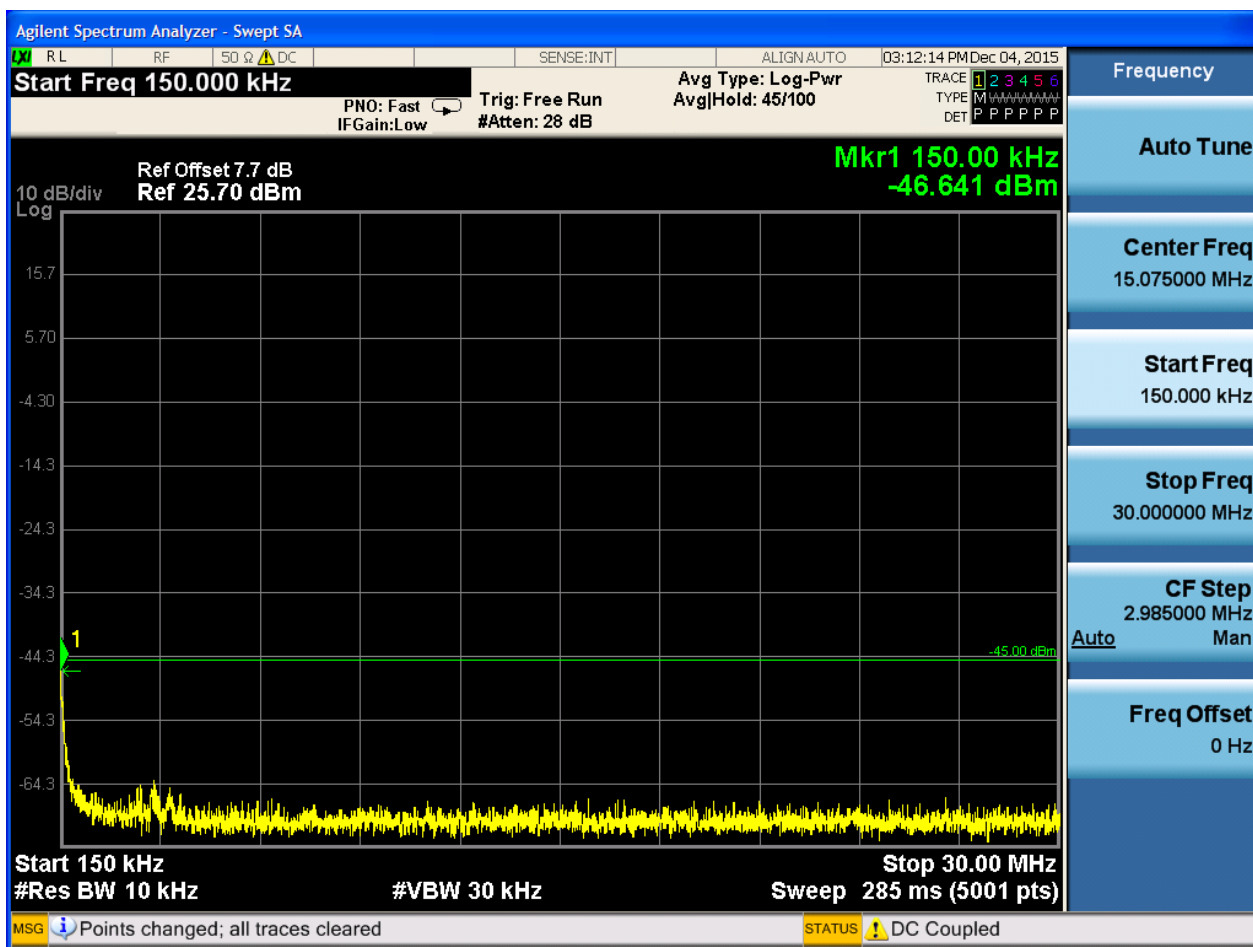


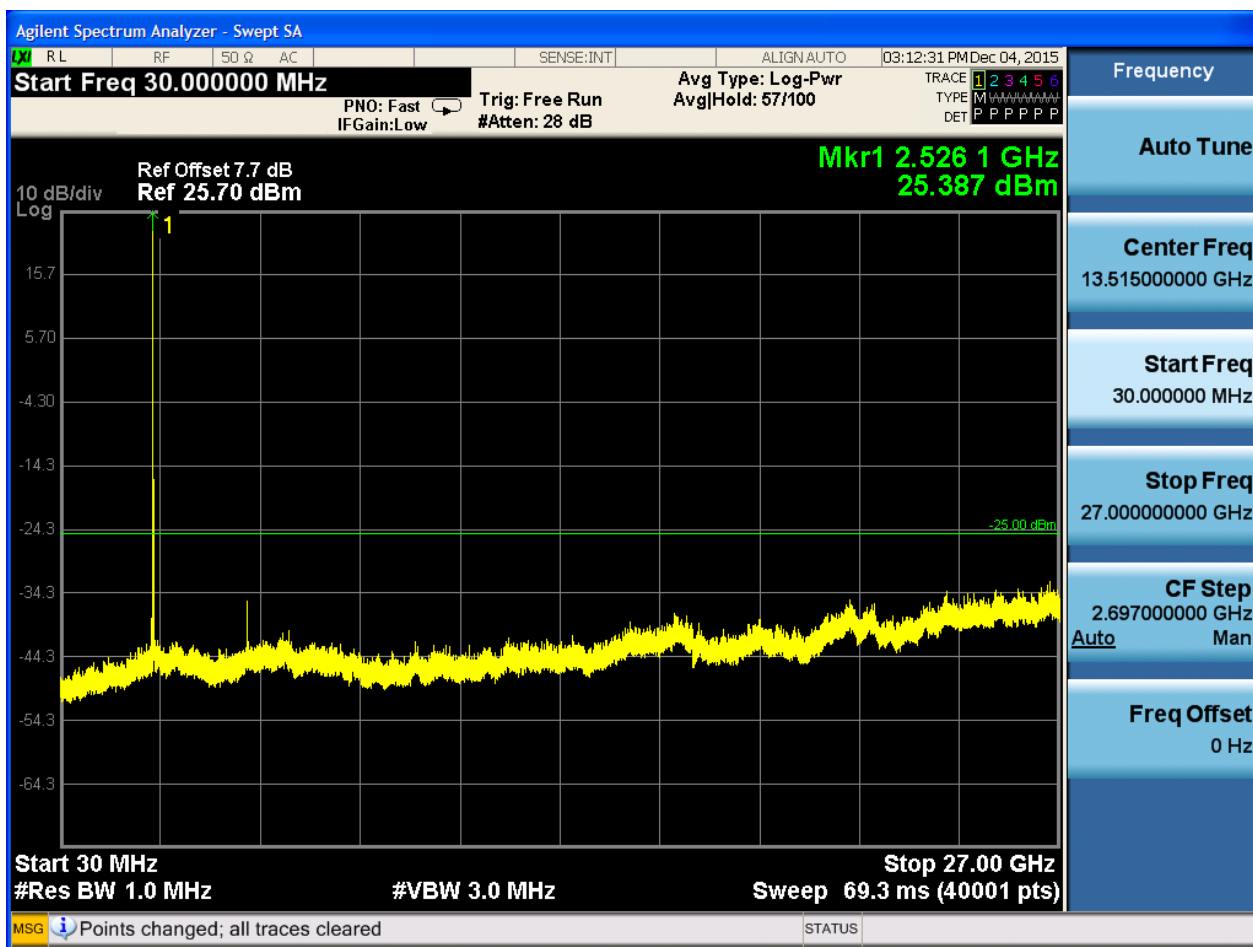


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



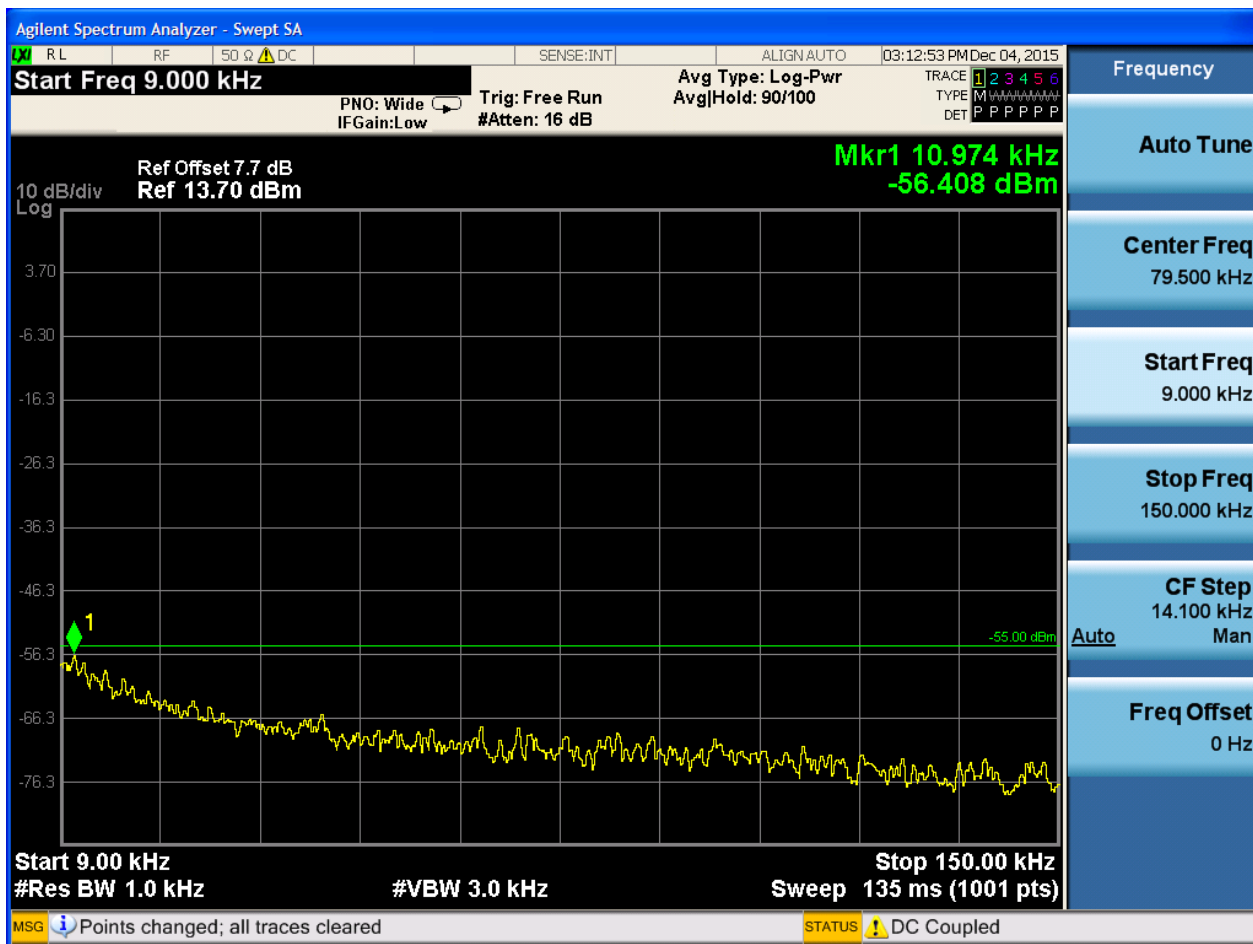


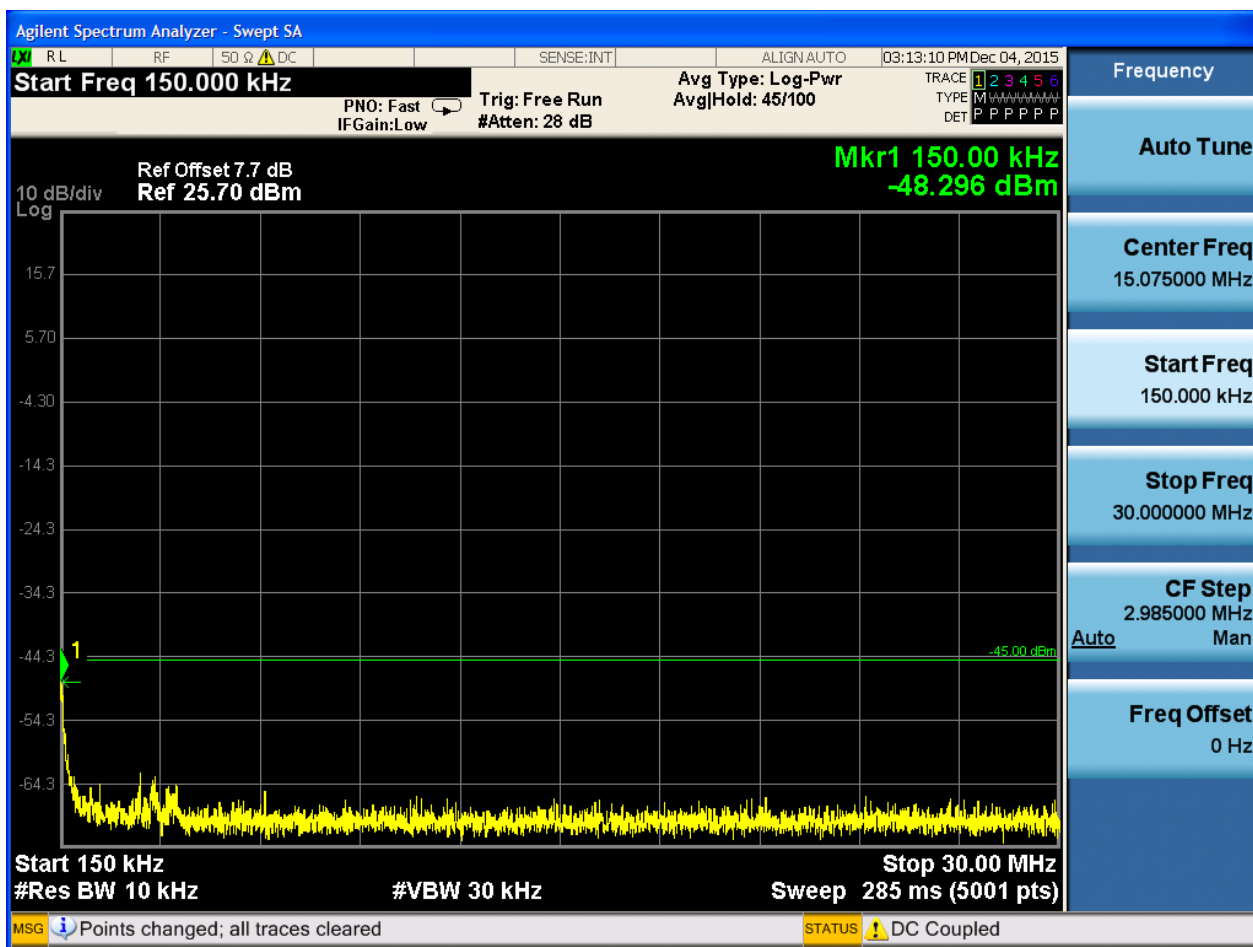


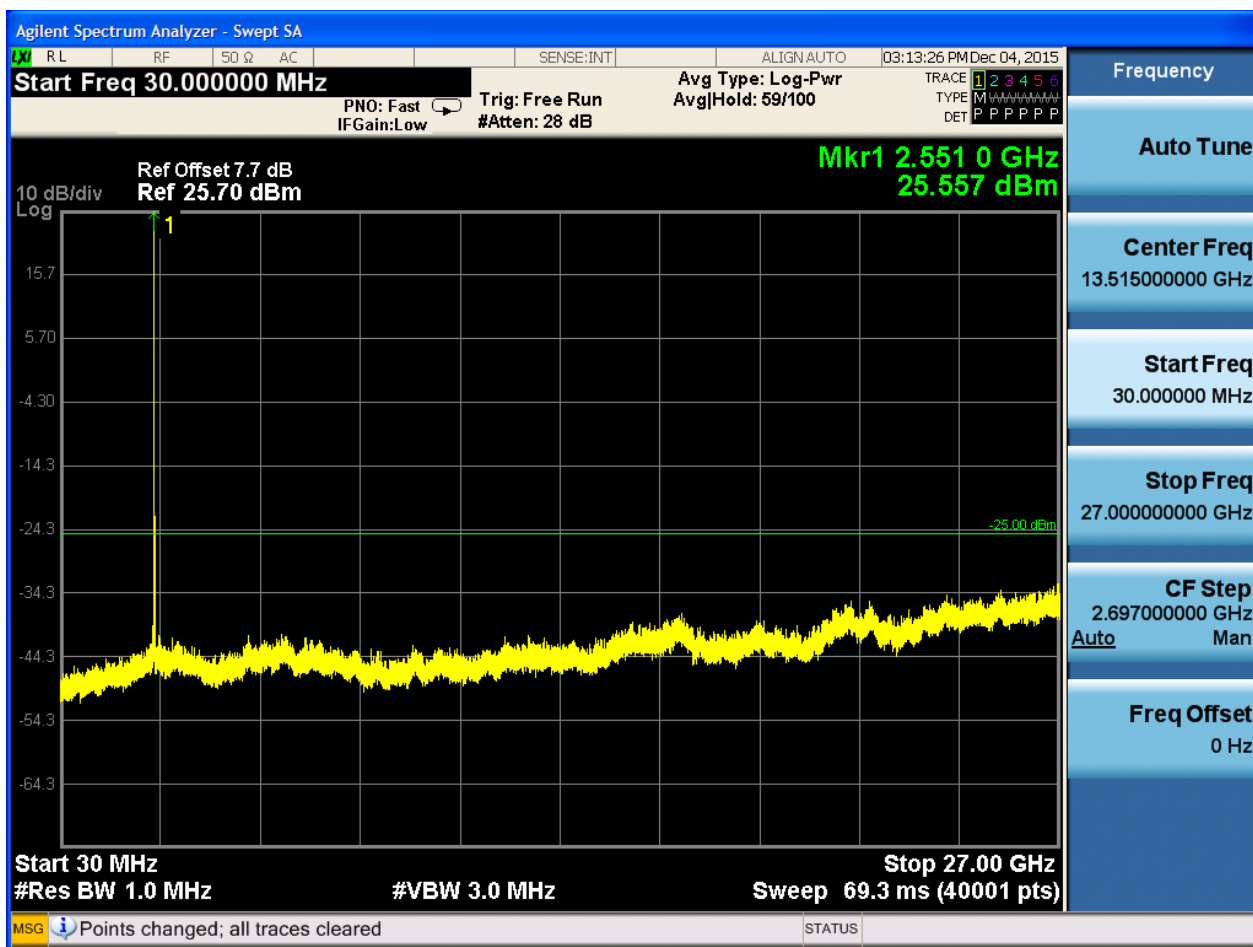


6.1.1.2.4.3 Test Channel = HCH

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

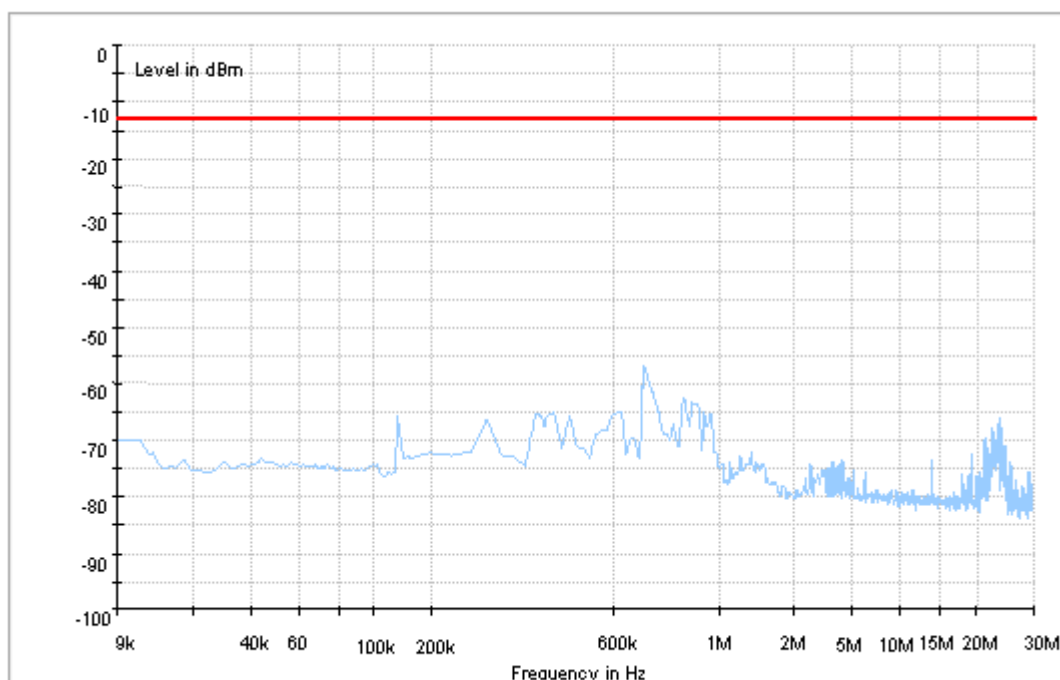
We tested all modes, but the data presented below is the worst case.

Part I - Test Plots

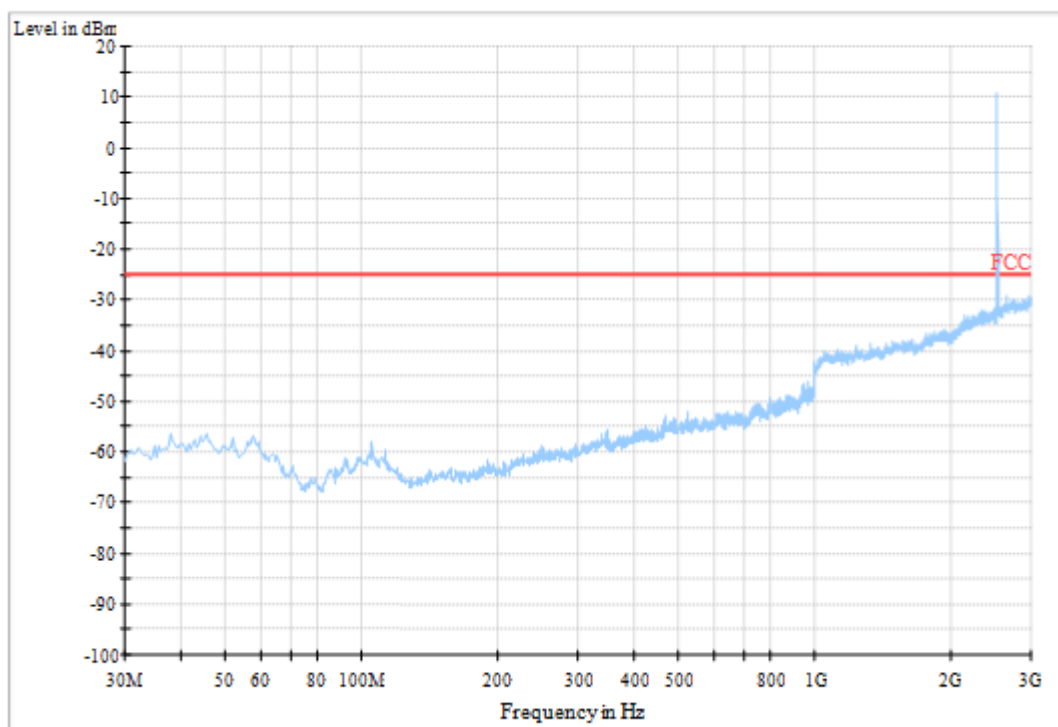
7.1 For LTE

7.1.1 Test Band = BAND7

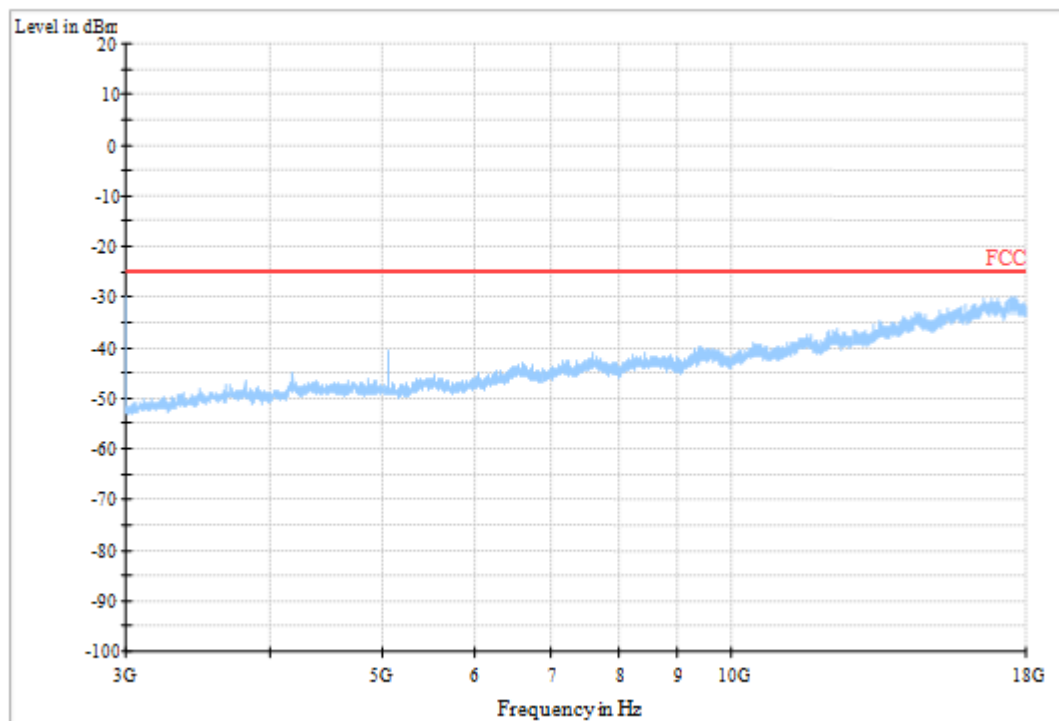
7.1.1.1 Test Bandwidth = 5

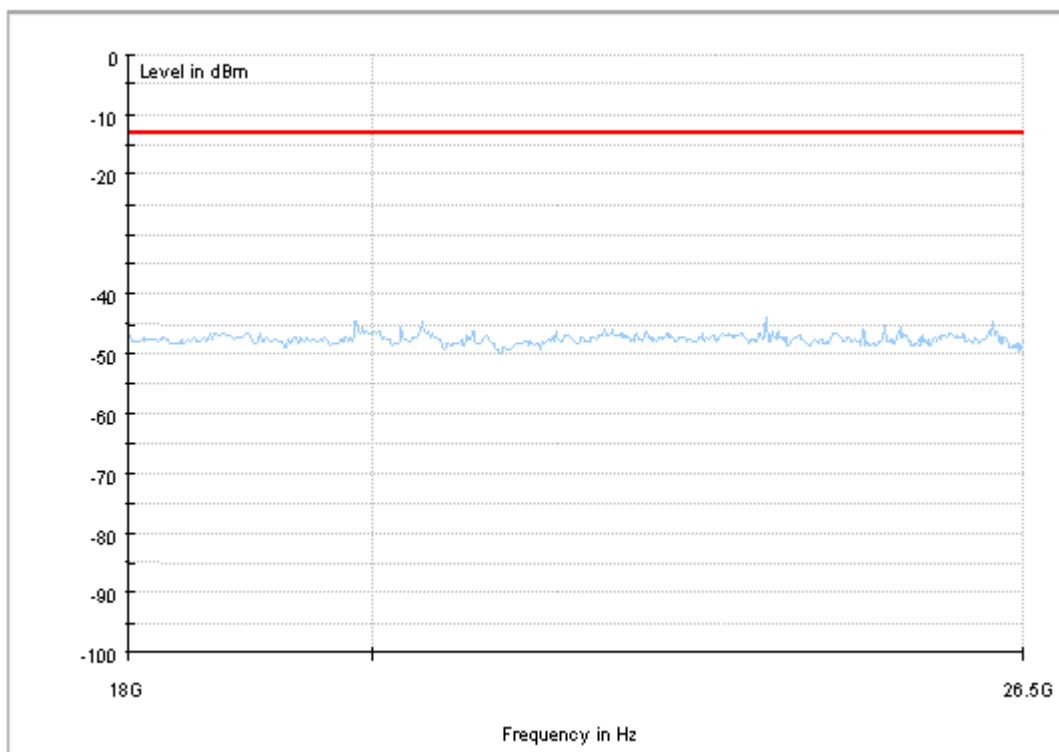


Copy of RSE-TX-DIRECTOR.ABOVE 1.5G_L

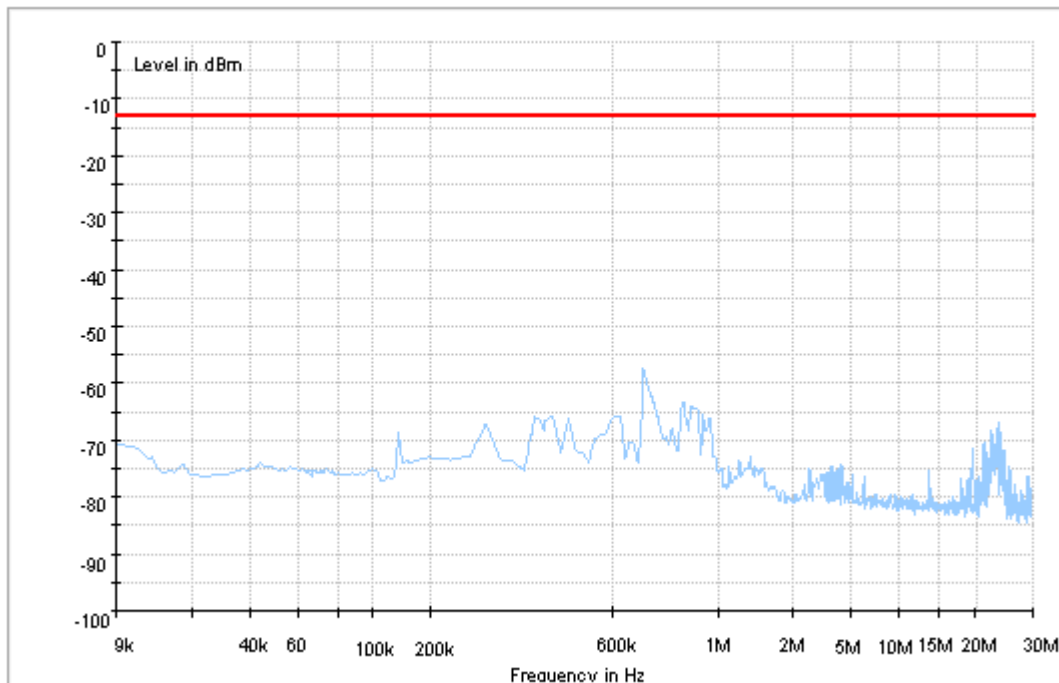


Copy of RSE-TX-DIRECTOR.ABOVE 1.5G_H

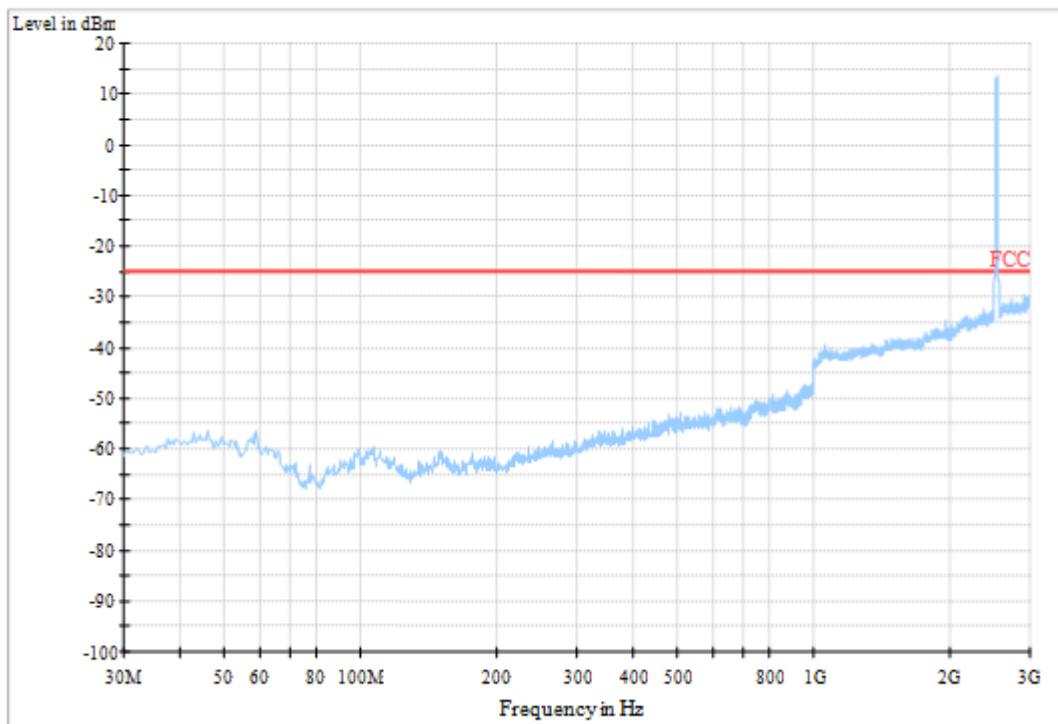




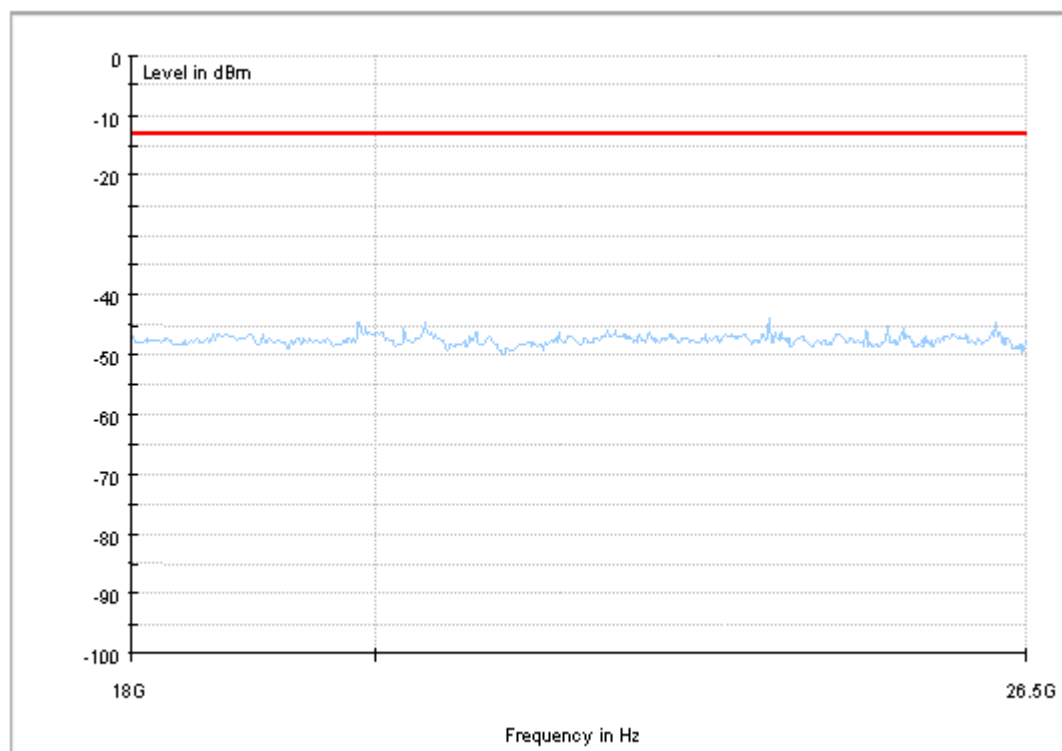
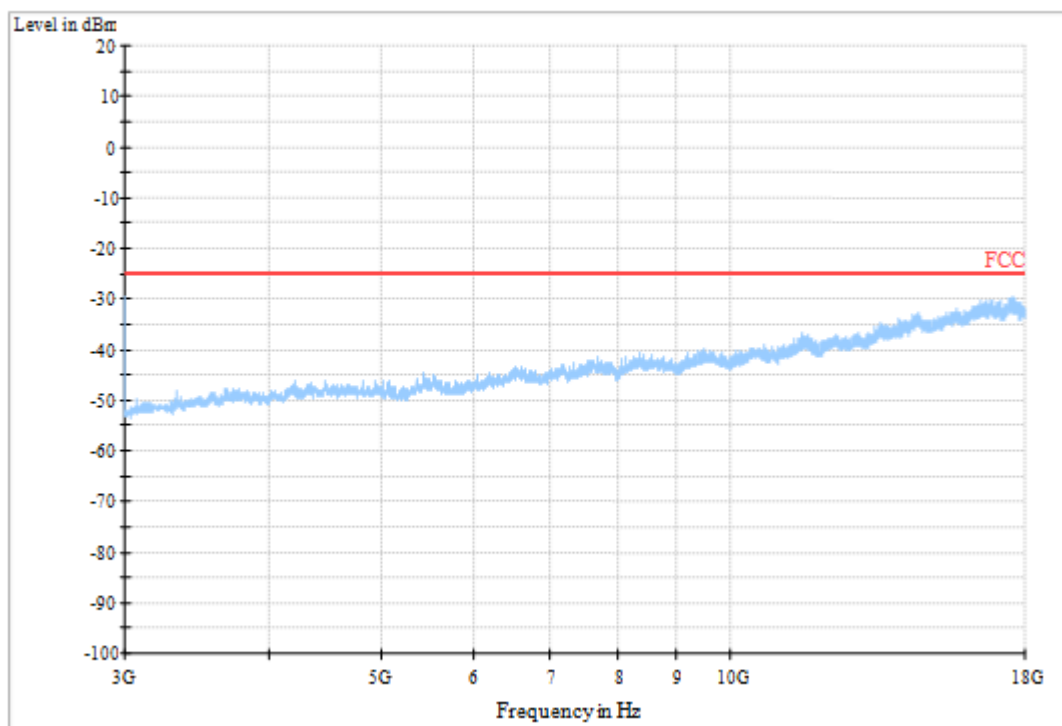
7.1.1.2 Test Bandwidth = 20



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	25.53	0.0102	PASS
					VN	-6.94	-0.00277	PASS
					VH	-13.82	-0.00552	PASS
			MCH	TN	VL	6.85	0.0027	PASS
					VN	9.06	0.00357	PASS
					VH	7.97	0.00314	PASS
			HCH	TN	VL	3.65	0.00142	PASS
					VN	5.62	0.00219	PASS
					VH	4.38	0.00171	PASS
		10	LCH	TN	VL	-1.5	-0.0006	PASS
					VN	-0.17	-0.00007	PASS
					VH	0.64	0.00026	PASS
			MCH	TN	VL	5.91	0.00233	PASS
					VN	7.14	0.00282	PASS
					VH	3.33	0.00131	PASS
			HCH	TN	VL	0.92	0.00036	PASS
					VN	2.23	0.00087	PASS
					VH	2.73	0.00106	PASS
		15	LCH	TN	VL	2.12	0.00085	PASS
					VN	8.85	0.00353	PASS
					VH	2.78	0.00111	PASS
			MCH	TN	VL	6.11	0.00241	PASS
					VN	4.11	0.00162	PASS
					VH	4.22	0.00166	PASS
			HCH	TN	VL	4.56	0.00178	PASS
					VN	6.88	0.00268	PASS
					VH	6.05	0.00236	PASS
		20	LCH	TN	VL	5.61	0.00224	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	9.97	0.00397	PASS
					VH	5.49	0.00219	PASS
					VL	2.86	0.00113	PASS
					VN	1.32	0.00052	PASS
					VH	2.12	0.00084	PASS
					VL	-1.32	-0.00052	PASS
			MCH	TN	VN	-1.19	-0.00046	PASS
					VH	-1.13	-0.00044	PASS
					VL	15.59	0.00623	PASS
					VN	5.95	0.00238	PASS
					VH	8.33	0.00333	PASS
					VL	11.53	0.00455	PASS
	LTE/TM2	5	LCH	TN	VN	11	0.00434	PASS
					VH	5.48	0.00216	PASS
					VL	6.85	0.00267	PASS
					VN	5.91	0.0023	PASS
					VH	4.51	0.00176	PASS
					VL	5.39	0.00215	PASS
			MCH	TN	VN	3.39	0.00135	PASS
					VH	1.9	0.00076	PASS
					VL	3.56	0.0014	PASS
					VN	5.16	0.00204	PASS
					VH	2.5	0.00099	PASS
					VL	1.44	0.00056	PASS
		10	HCH	TN	VN	4.68	0.00182	PASS
					VH	4.12	0.00161	PASS
					VL	6.05	0.00241	PASS
					VN	2.53	0.00101	PASS
					VH	-1.72	-0.00069	PASS
					VL	8.65	0.00341	PASS
			MCH	TN	VN	2.8	0.0011	PASS
					VH	4.69	0.00185	PASS
					VL	2.65	0.00103	PASS
					VN	3.32	0.0013	PASS
					VH	3.28	0.00128	PASS
					VL	12.53	0.00499	PASS
		15	LCH	TN	VN	6.34	0.00253	PASS
					VH	0.62	0.00025	PASS
					VL	6.49	0.00256	PASS
			MCH	TN	VL	6.49	0.00256	PASS
					VN	6.34	0.00253	PASS
					VH	0.62	0.00025	PASS
					VL	6.49	0.00256	PASS
					VN	6.34	0.00253	PASS
					VH	0.62	0.00025	PASS
					VL	6.49	0.00256	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	5.19	0.00205	PASS
					VH	3.85	0.00152	PASS
			HCH	TN	VL	-1.06	-0.00041	PASS
					VN	-1.33	-0.00052	PASS
					VH	-1.32	-0.00052	PASS

8.1.2Frequency 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	20.41	0.00816	PASS
					-20	-0.97	-0.00039	PASS
					-10	18.97	0.00758	PASS
					0	-15.39	-0.00615	PASS
					10	-5.08	-0.00203	PASS
					20	3.55	0.00142	PASS
					30	11.12	0.00444	PASS
					40	-4.59	-0.00183	PASS
					50	6.67	0.00267	PASS
			MCH	VN	-30	8.64	0.00341	PASS
					-20	5.78	0.00228	PASS
					-10	5.79	0.00228	PASS
					0	4.38	0.00173	PASS
					10	5.04	0.00199	PASS
					20	3.98	0.00157	PASS
					30	3.4	0.00134	PASS
					40	3.78	0.00149	PASS
					50	3.16	0.00125	PASS
			HCH	VN	-30	2.66	0.00104	PASS
					-20	4.31	0.00168	PASS
					-10	1.56	0.00061	PASS
					0	0.49	0.00019	PASS
					10	3.23	0.00126	PASS
					20	2.2	0.00086	PASS
					30	1.96	0.00076	PASS
					40	1.52	0.00059	PASS
					50	2.76	0.00107	PASS
		10	LCH	VN	-30	-0.14	-0.00006	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	5.82	0.00232	PASS
					-10	5.64	0.00225	PASS
					0	3.55	0.00142	PASS
					10	4.35	0.00174	PASS
					20	3.71	0.00148	PASS
					30	4.62	0.00184	PASS
					40	6.27	0.0025	PASS
					50	6.85	0.00273	PASS
			MCH	VN	-30	3.38	0.00133	PASS
					-20	1.93	0.00076	PASS
					-10	7.3	0.00288	PASS
					0	2.96	0.00117	PASS
					10	1.46	0.00058	PASS
					20	1.72	0.00068	PASS
					30	2.32	0.00092	PASS
					40	3.49	0.00138	PASS
					50	1.52	0.0006	PASS
			HCH	VN	-30	3.39	0.00132	PASS
					-20	3.09	0.0012	PASS
					-10	2.95	0.00115	PASS
					0	2.78	0.00108	PASS
					10	1.44	0.00056	PASS
					20	1.57	0.00061	PASS
					30	3.23	0.00126	PASS
					40	4.55	0.00177	PASS
					50	1.9	0.00074	PASS
		15	LCH	VN	-30	3.79	0.00151	PASS
					-20	-1.16	-0.00046	PASS
					-10	11.62	0.00463	PASS
					0	3.25	0.0013	PASS
					10	18.68	0.00745	PASS
					20	18.01	0.00718	PASS
					30	11.99	0.00478	PASS
					40	8.61	0.00343	PASS
					50	6.74	0.00269	PASS
			MCH	VN	-30	6.34	0.0025	PASS
					-20	7.68	0.00303	PASS
					-10	2.56	0.00101	PASS
					0	3.36	0.00133	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	2.95	0.00116	PASS
					20	2.78	0.0011	PASS
					30	0.92	0.00036	PASS
					40	5.05	0.00199	PASS
					50	1.32	0.00052	PASS
			HCH	VN	-30	2.92	0.00114	PASS
					-20	4.26	0.00166	PASS
					-10	3.38	0.00132	PASS
					0	3.99	0.00156	PASS
					10	4.35	0.0017	PASS
					20	3.6	0.0014	PASS
					30	3.81	0.00149	PASS
					40	2.96	0.00116	PASS
					50	1.66	0.00065	PASS
		20	LCH	VN	-30	7.68	0.00306	PASS
					-20	-3.38	-0.00135	PASS
					-10	-2.66	-0.00106	PASS
					0	3.13	0.00125	PASS
					10	1.47	0.00059	PASS
					20	10.17	0.00405	PASS
					30	24.3	0.00968	PASS
					40	13.48	0.00537	PASS
					50	12.82	0.00511	PASS
			MCH	VN	-30	3.32	0.00131	PASS
					-20	2.22	0.00088	PASS
					-10	2.52	0.00099	PASS
					0	3.45	0.00136	PASS
					10	4.19	0.00165	PASS
					20	3.3	0.0013	PASS
					30	1.57	0.00062	PASS
					40	3.25	0.00128	PASS
					50	1.22	0.00048	PASS
			HCH	VN	-30	1.57	0.00061	PASS
					-20	1.62	0.00063	PASS
					-10	2.25	0.00088	PASS
					0	1.95	0.00076	PASS
					10	2.09	0.00082	PASS
					20	2.66	0.00104	PASS
					30	2.02	0.00079	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	0.86	0.00034	PASS
					50	2.26	0.00088	PASS
			LCH	VN	-30	0.66	0.00026	PASS
					-20	12.85	0.00513	PASS
					-10	-0.29	-0.00012	PASS
					0	0.21	0.00008	PASS
					10	10.29	0.00411	PASS
					20	14.1	0.00563	PASS
					30	-6.18	-0.00247	PASS
					40	2.4	0.00096	PASS
					50	14.48	0.00579	PASS
			MCH	VN	-30	9.81	0.00387	PASS
					-20	9.34	0.00368	PASS
					-10	9.41	0.00371	PASS
					0	7.05	0.00278	PASS
					10	6.07	0.00239	PASS
					20	5.34	0.00211	PASS
					30	4.84	0.00191	PASS
					40	4.45	0.00176	PASS
					50	4.19	0.00165	PASS
			HCH	VN	-30	4.72	0.00184	PASS
					-20	4.49	0.00175	PASS
					-10	1.03	0.0004	PASS
					0	-0.86	-0.00033	PASS
					10	-1.9	-0.00074	PASS
					20	0.53	0.00021	PASS
					30	2.3	0.0009	PASS
					40	-2.02	-0.00079	PASS
					50	0.37	0.00014	PASS
		10	LCH	VN	-30	4.96	0.00198	PASS
					-20	9.43	0.00376	PASS
					-10	6.77	0.0027	PASS
					0	7.34	0.00293	PASS
					10	5.69	0.00227	PASS
					20	7.37	0.00294	PASS
					30	5.74	0.00229	PASS
					40	4.18	0.00167	PASS
					50	3.99	0.00159	PASS
			MCH	VN	-30	3.68	0.00145	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	4.59	0.00181	PASS
					-10	2.95	0.00116	PASS
					0	4.29	0.00169	PASS
					10	0.27	0.00011	PASS
					20	4.98	0.00196	PASS
					30	5.78	0.00228	PASS
					40	3.79	0.0015	PASS
					50	2.86	0.00113	PASS
			HCH	VN	-30	0.62	0.00024	PASS
					-20	0.54	0.00021	PASS
					-10	1.16	0.00045	PASS
					0	2.35	0.00092	PASS
					10	0.2	0.00008	PASS
					20	0.23	0.00009	PASS
					30	0.67	0.00026	PASS
					40	0.97	0.00038	PASS
					50	-0.84	-0.00033	PASS
		15	LCH	VN	-30	9.31	0.00371	PASS
					-20	3.25	0.0013	PASS
					-10	5.41	0.00216	PASS
					0	4.65	0.00185	PASS
					10	2.32	0.00093	PASS
					20	0.54	0.00022	PASS
					30	1.44	0.00057	PASS
					40	3.63	0.00145	PASS
					50	0.72	0.00029	PASS
			MCH	VN	-30	3.83	0.00151	PASS
					-20	6.97	0.00275	PASS
					-10	1.86	0.00073	PASS
					0	3.73	0.00147	PASS
					10	3.13	0.00123	PASS
					20	2.13	0.00084	PASS
					30	1.37	0.00054	PASS
					40	2.07	0.00082	PASS
					50	3.73	0.00147	PASS
			HCH	VN	-30	2.13	0.00083	PASS
					-20	3.88	0.00151	PASS
					-10	4.18	0.00163	PASS
					0	2.82	0.0011	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	2.56	0.001	PASS
					20	4.71	0.00184	PASS
					30	6.21	0.00242	PASS
					40	4.96	0.00194	PASS
					50	4.51	0.00176	PASS
		20	LCH	VN	-30	16.32	0.0065	PASS
					-20	1.54	0.00061	PASS
					-10	-0.56	-0.00022	PASS
					0	3.06	0.00122	PASS
					10	-11.44	-0.00456	PASS
					20	11.6	0.00462	PASS
					30	2.42	0.00096	PASS
					40	-0.64	-0.00025	PASS
					50	4.25	0.00169	PASS
			MCH	VN	-30	6.62	0.00261	PASS
					-20	5.85	0.00231	PASS
					-10	2.82	0.00111	PASS
					0	2.89	0.00114	PASS
					10	3.23	0.00127	PASS
					20	2.23	0.00088	PASS
					30	4.06	0.0016	PASS
					40	1.83	0.00072	PASS
					50	2.7	0.00107	PASS
			HCH	VN	-30	0.13	0.00005	PASS
					-20	-0.47	-0.00018	PASS
					-10	-0.56	-0.00022	PASS
					0	1.02	0.0004	PASS
					10	1.36	0.00053	PASS
					20	1.16	0.00045	PASS
					30	0.34	0.00013	PASS
					40	-0.09	-0.00004	PASS
					50	1.66	0.00065	PASS

END