

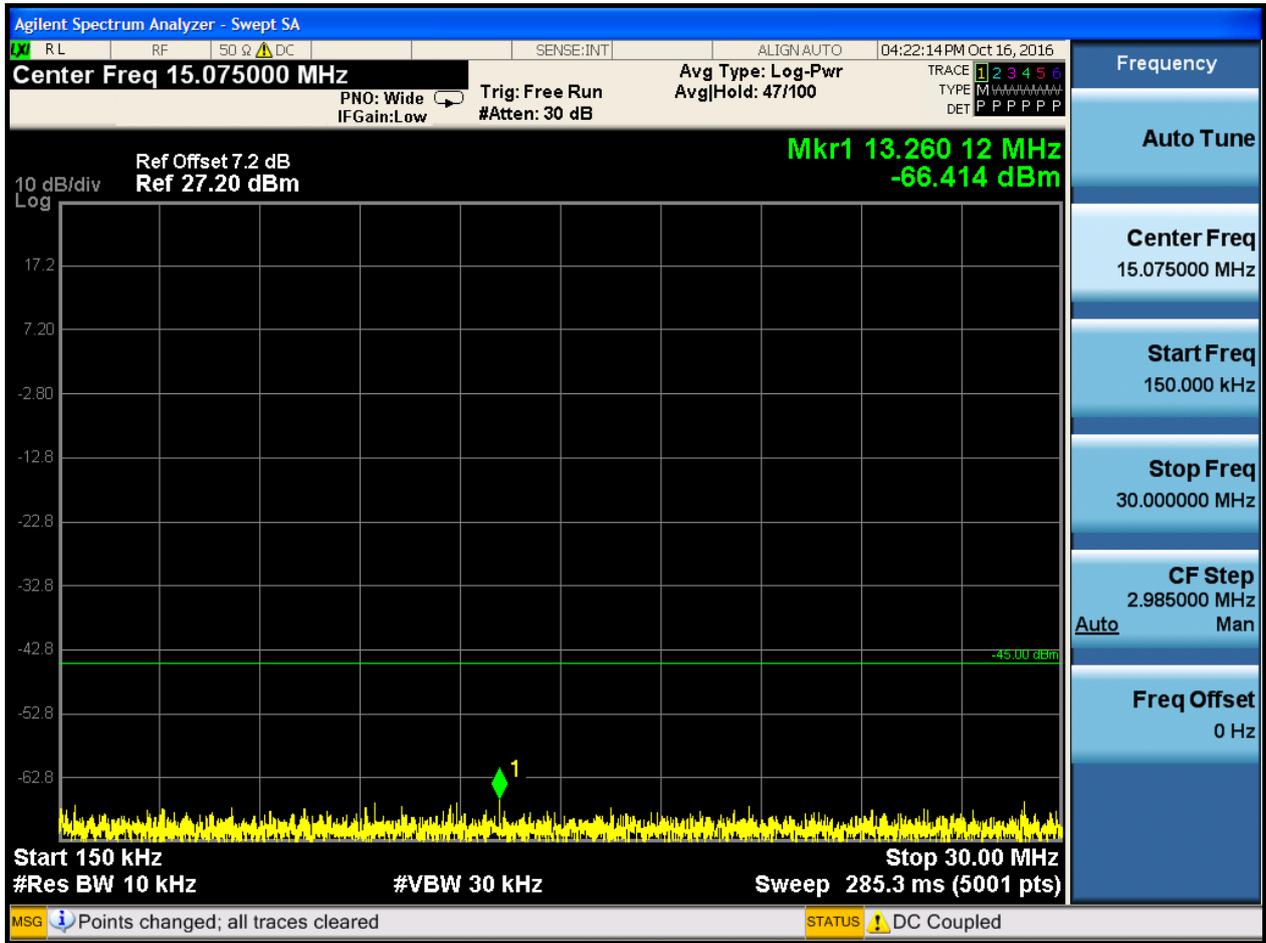


6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

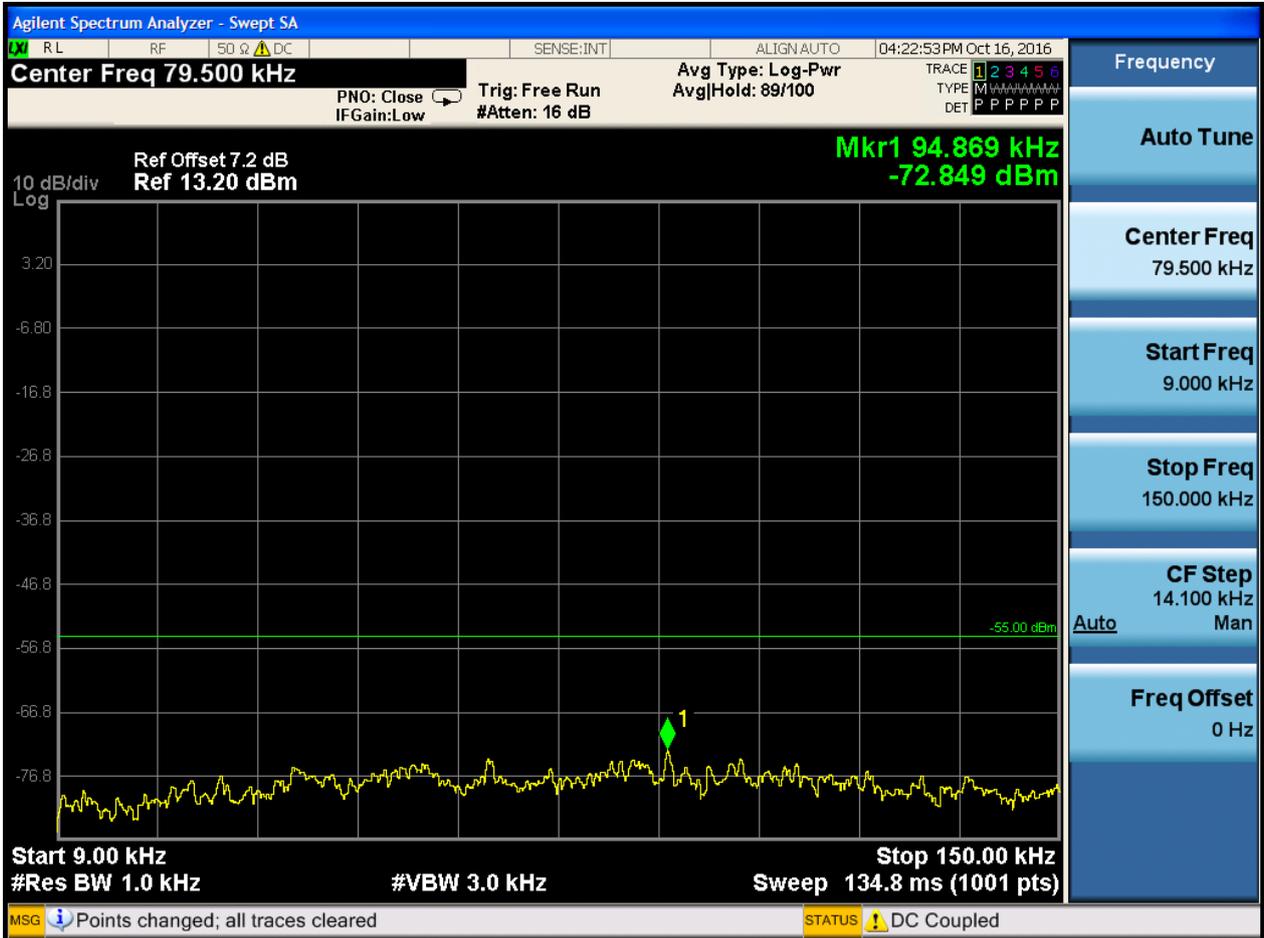


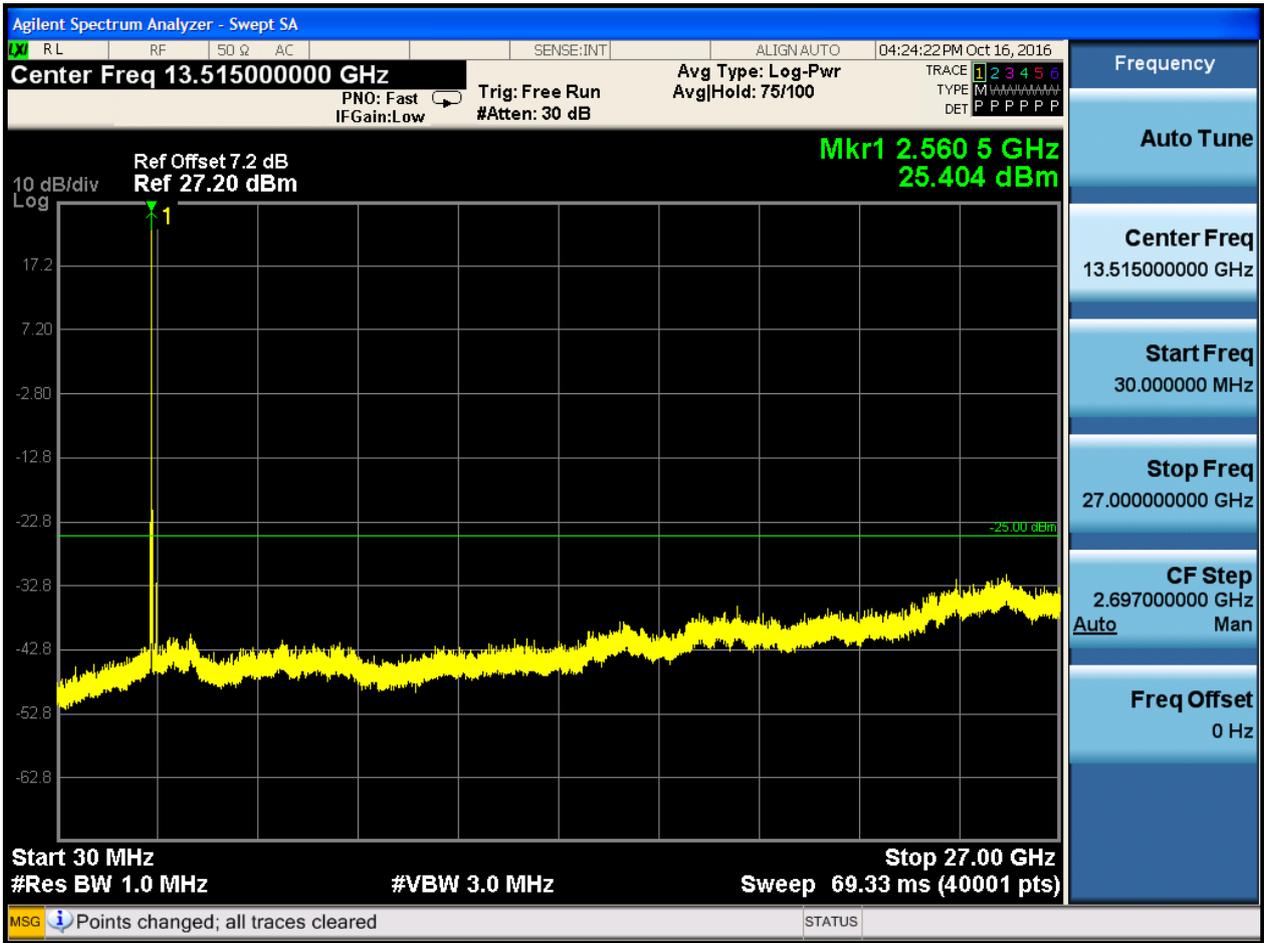




6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



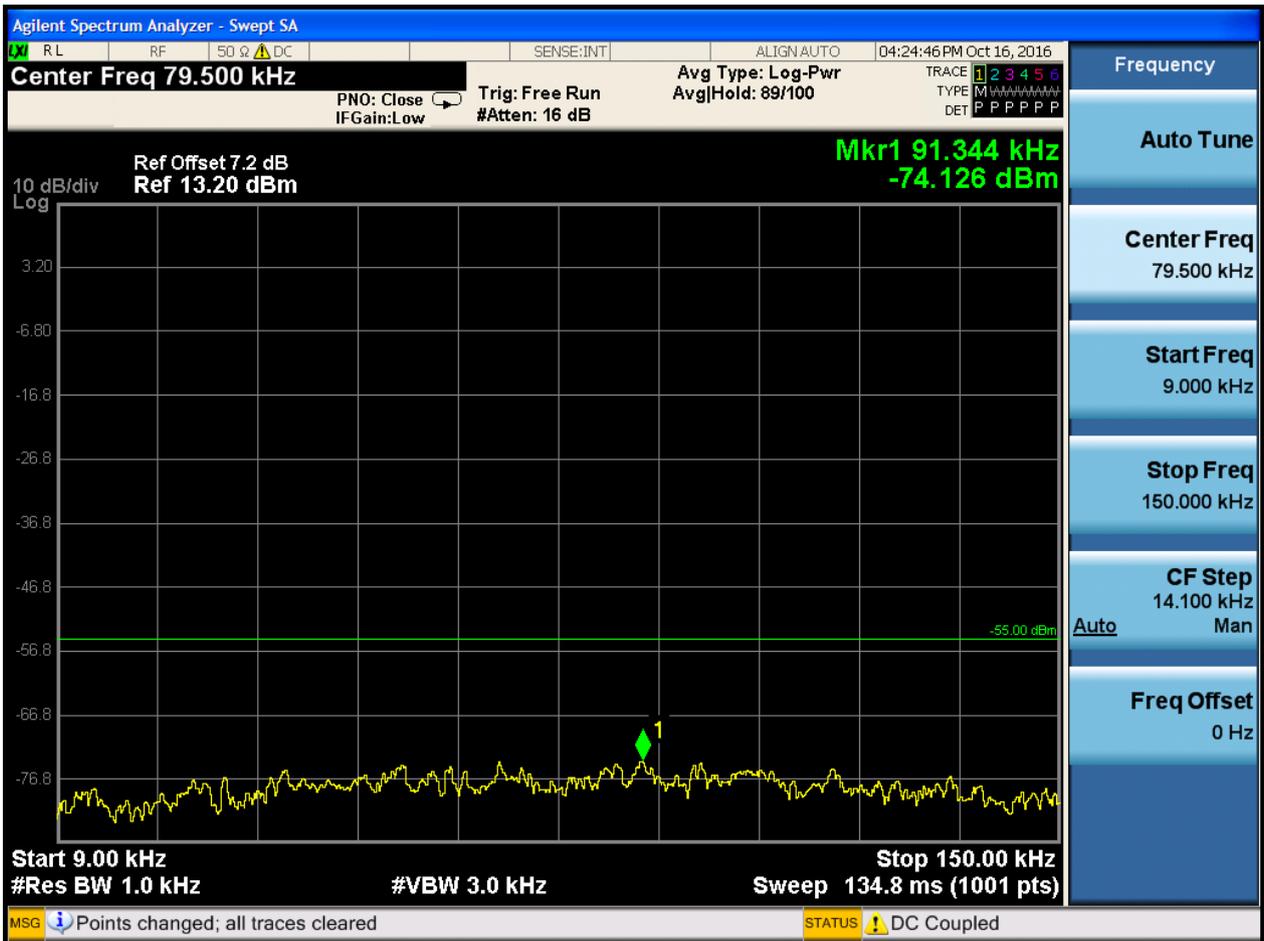




6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

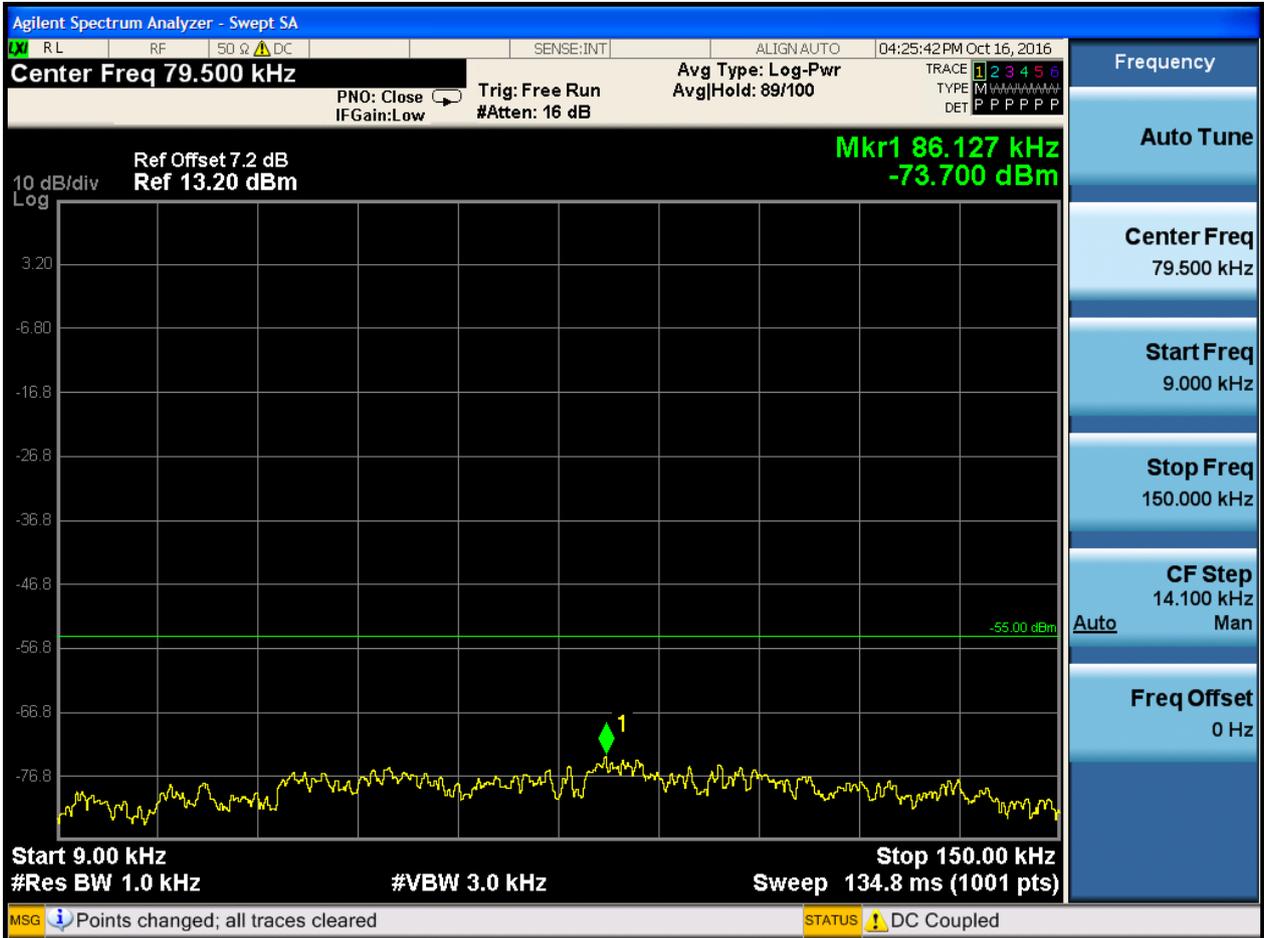
6.1.1.1.3.1.1 Test RB = RB1#0

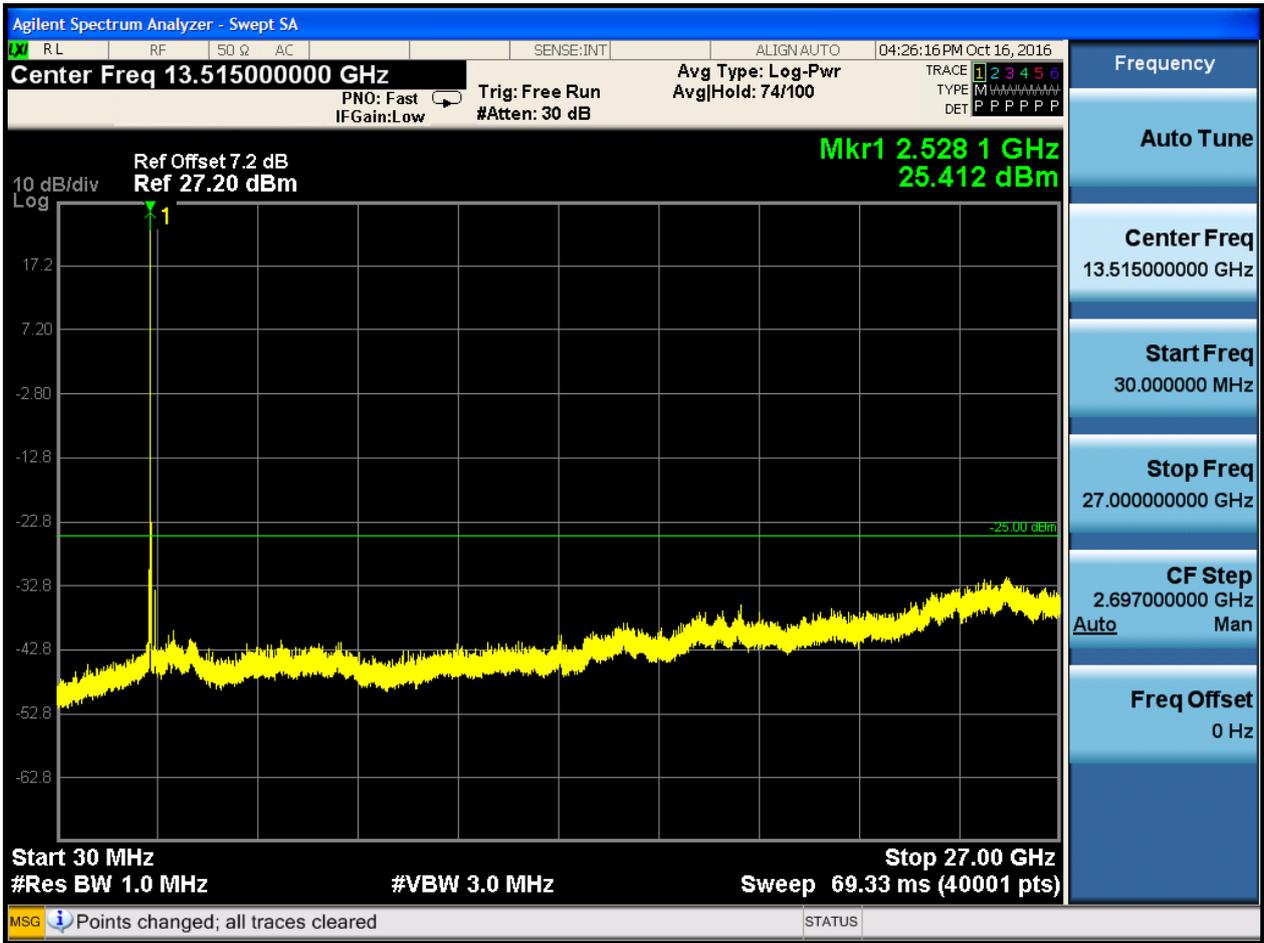




6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

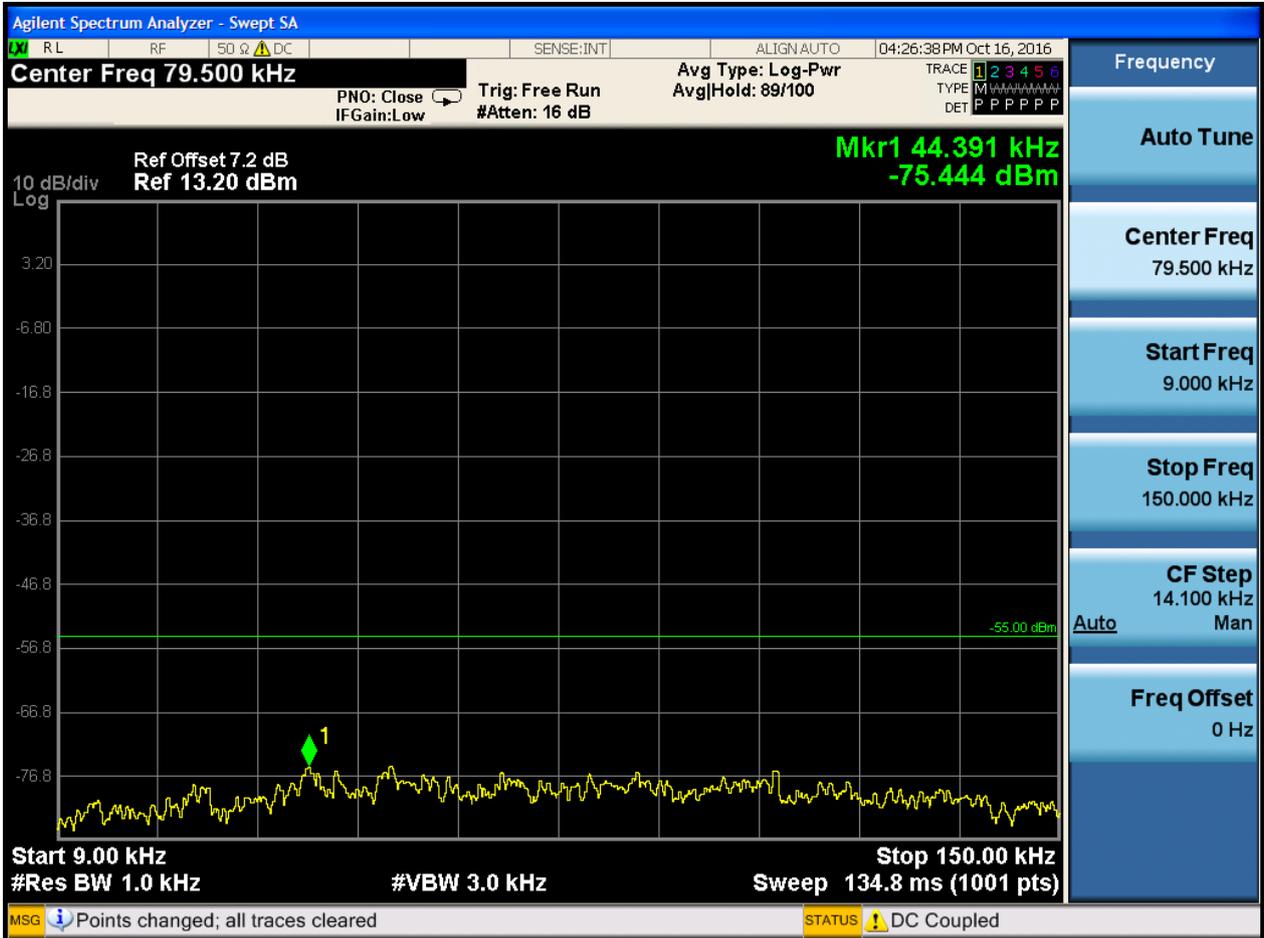


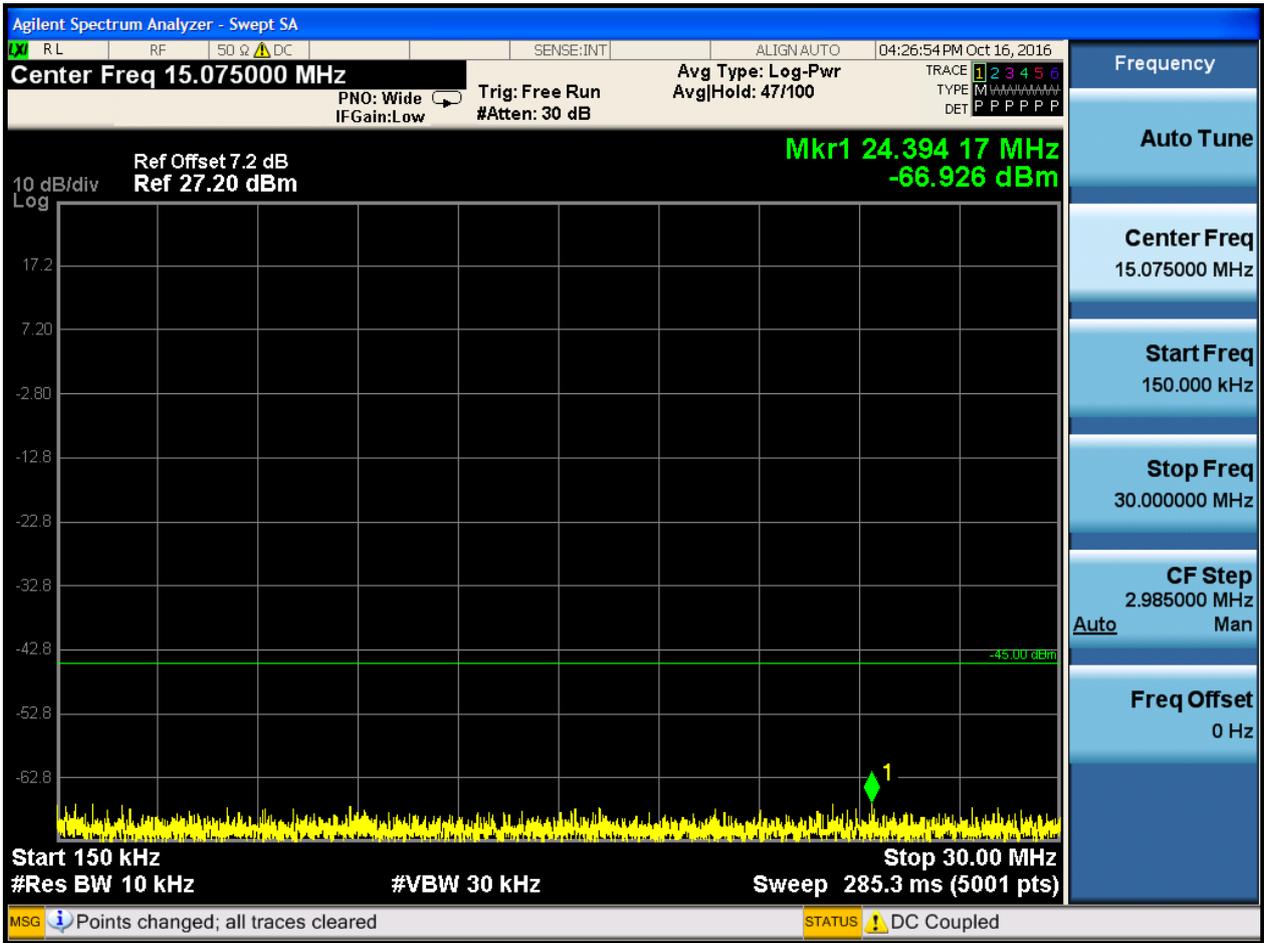


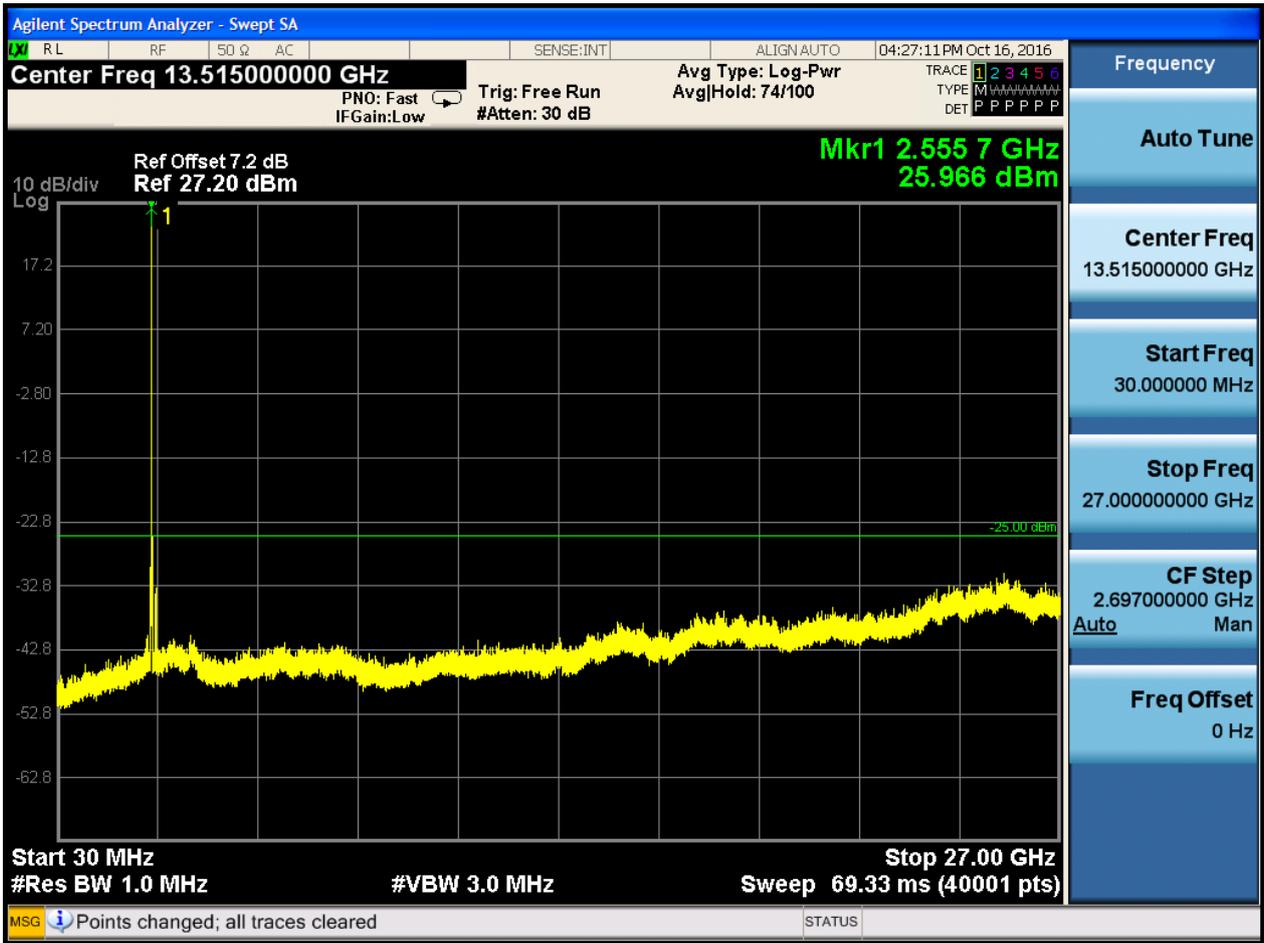


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





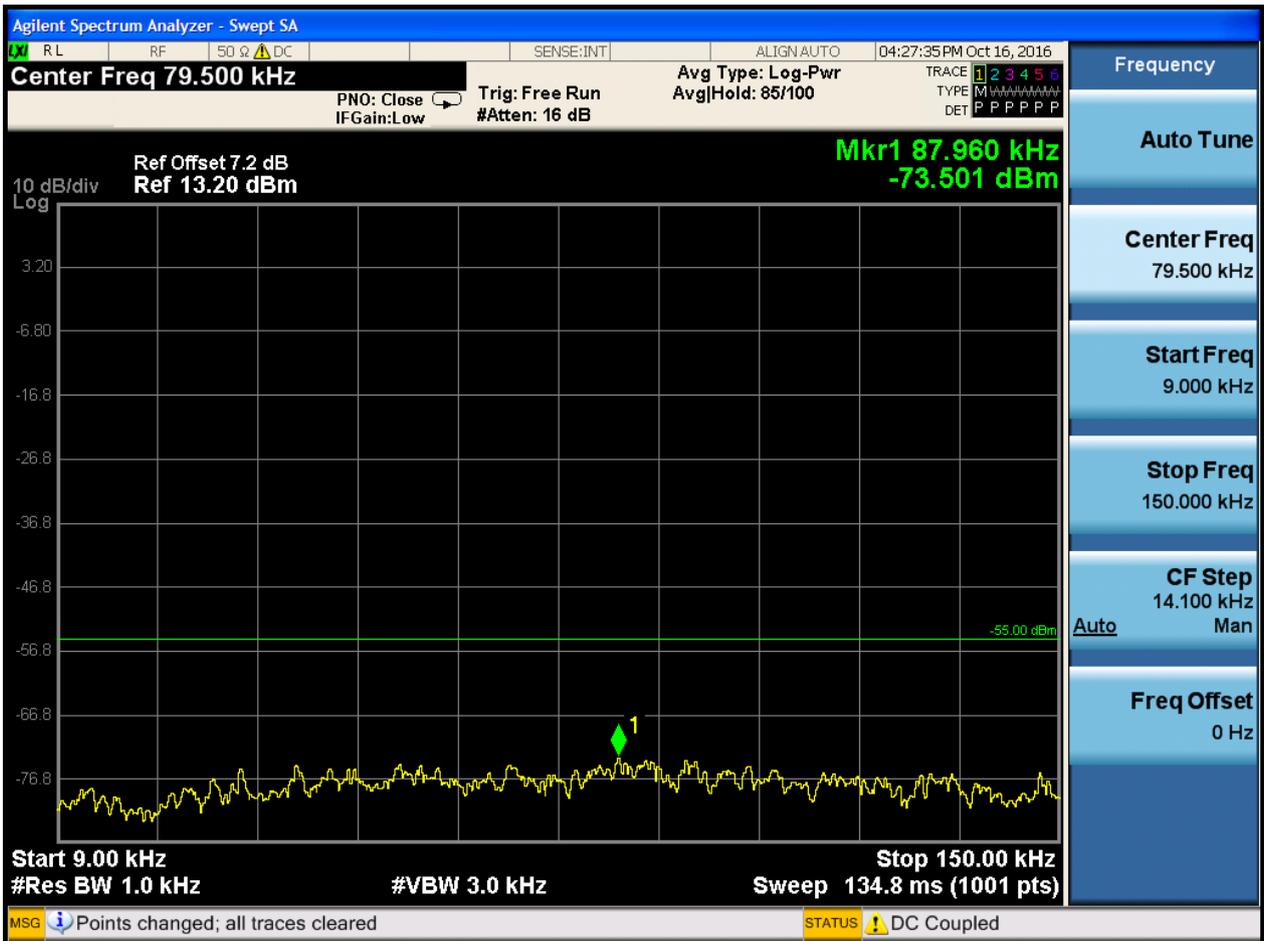




6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

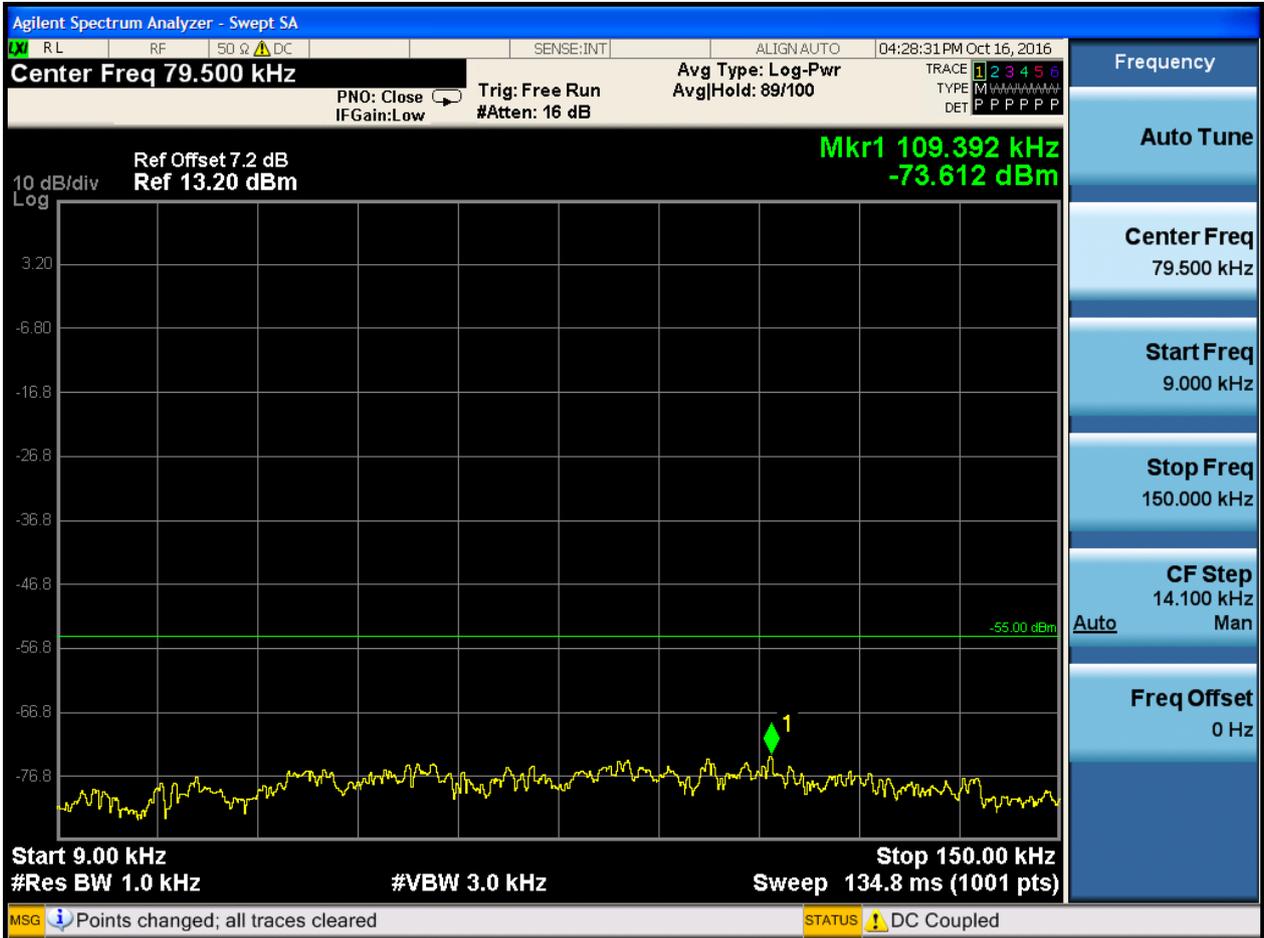
6.1.1.1.4.1.1 Test RB = RB1#0

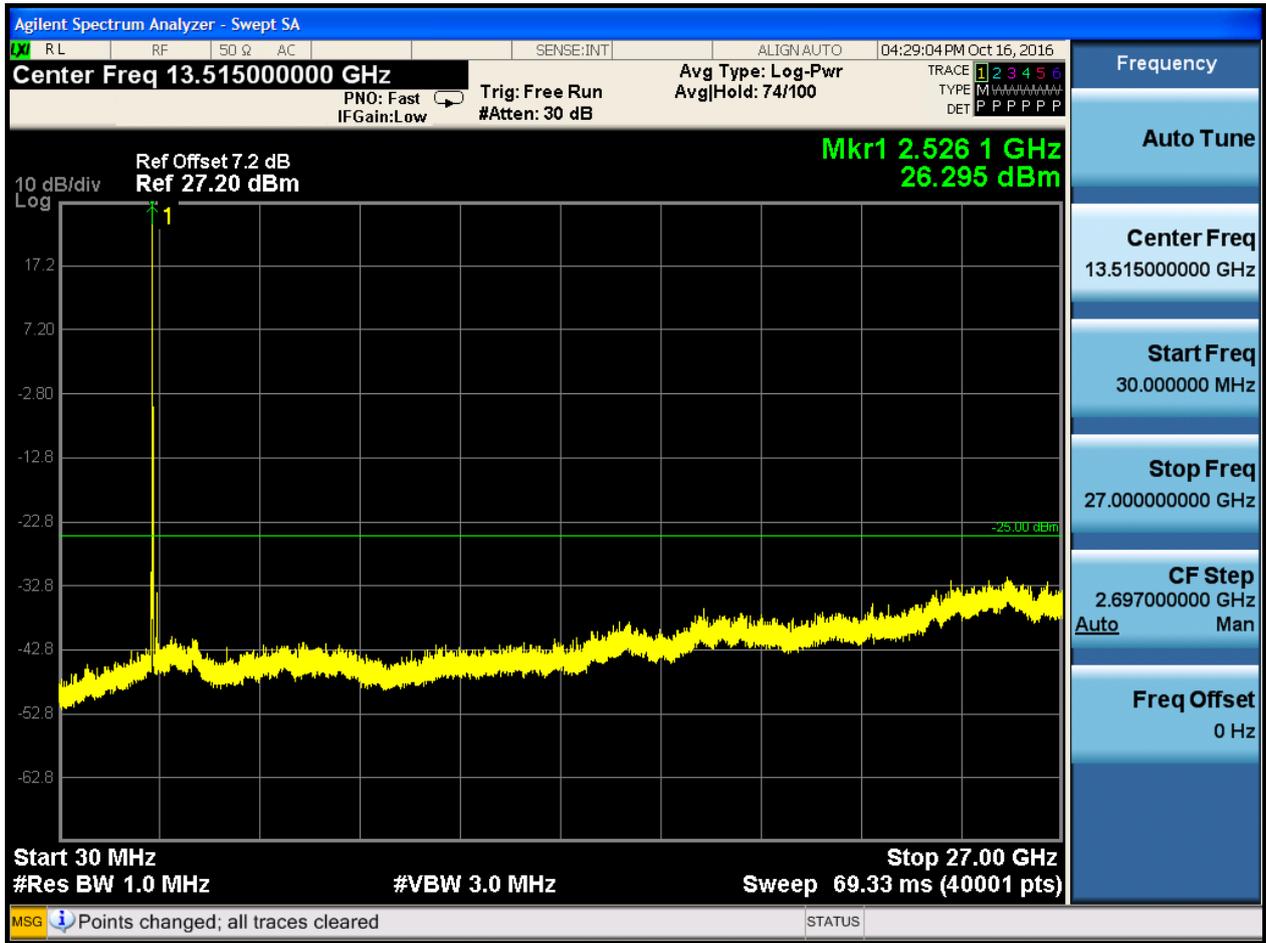




6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0

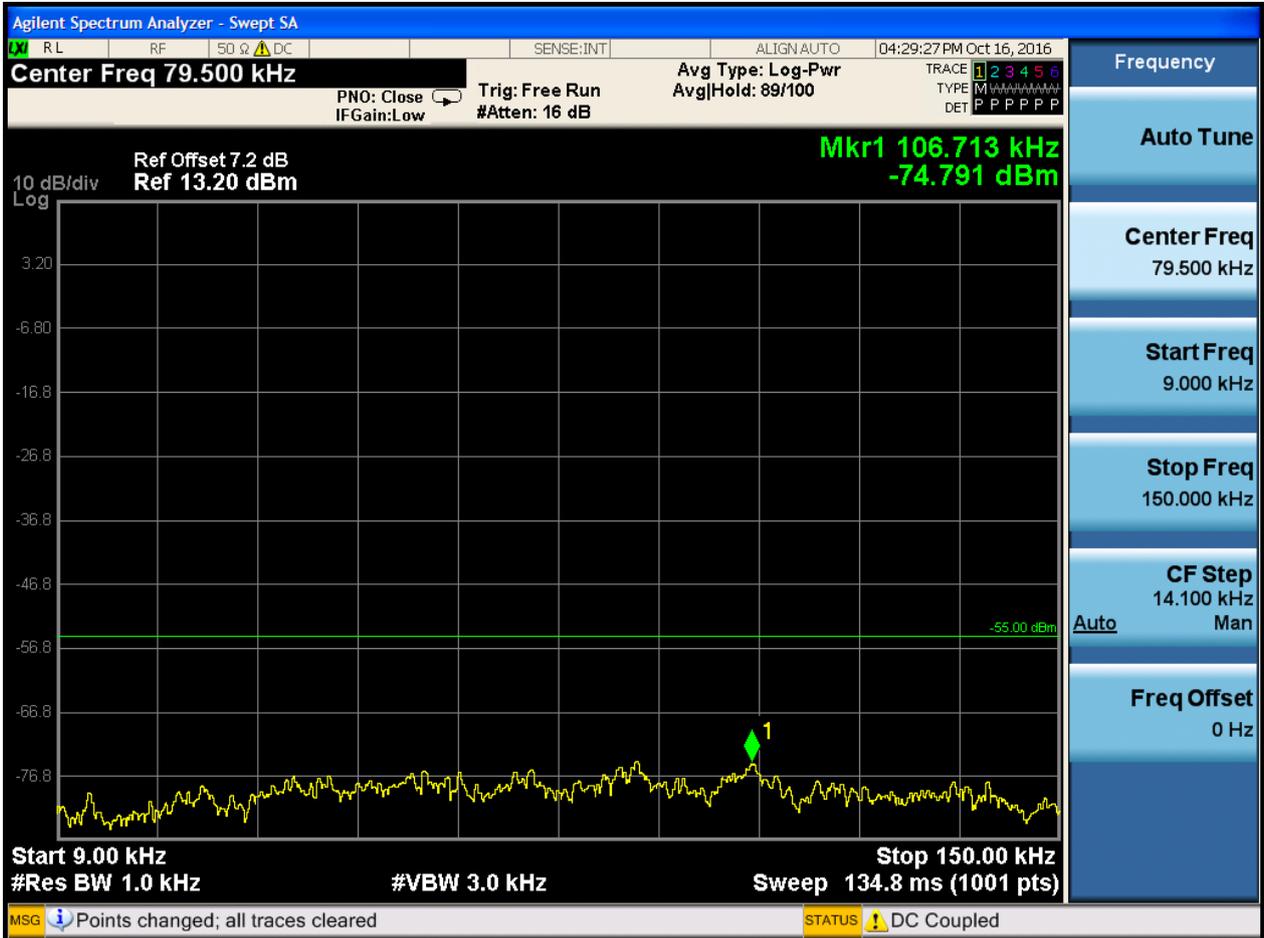


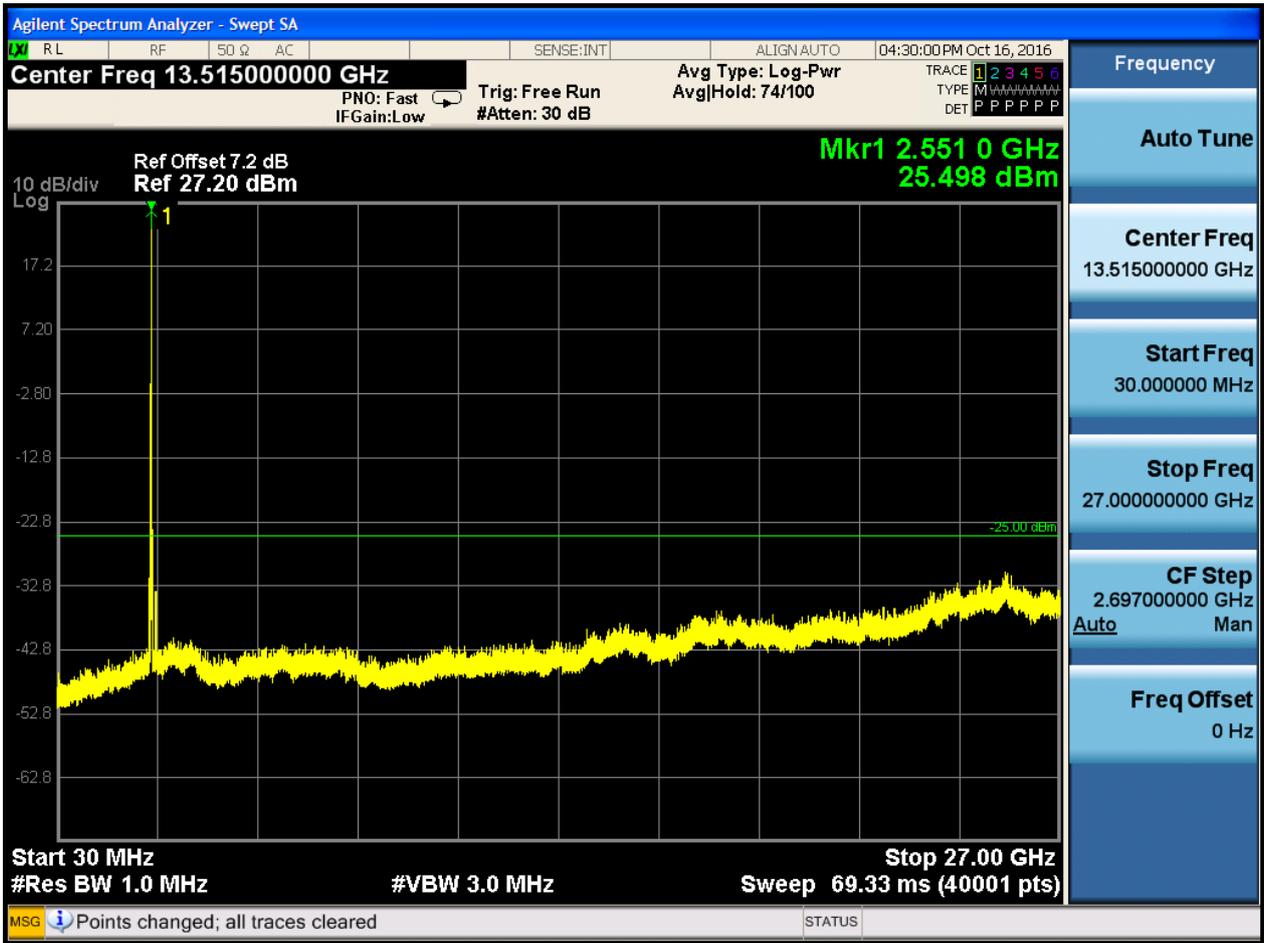




6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0





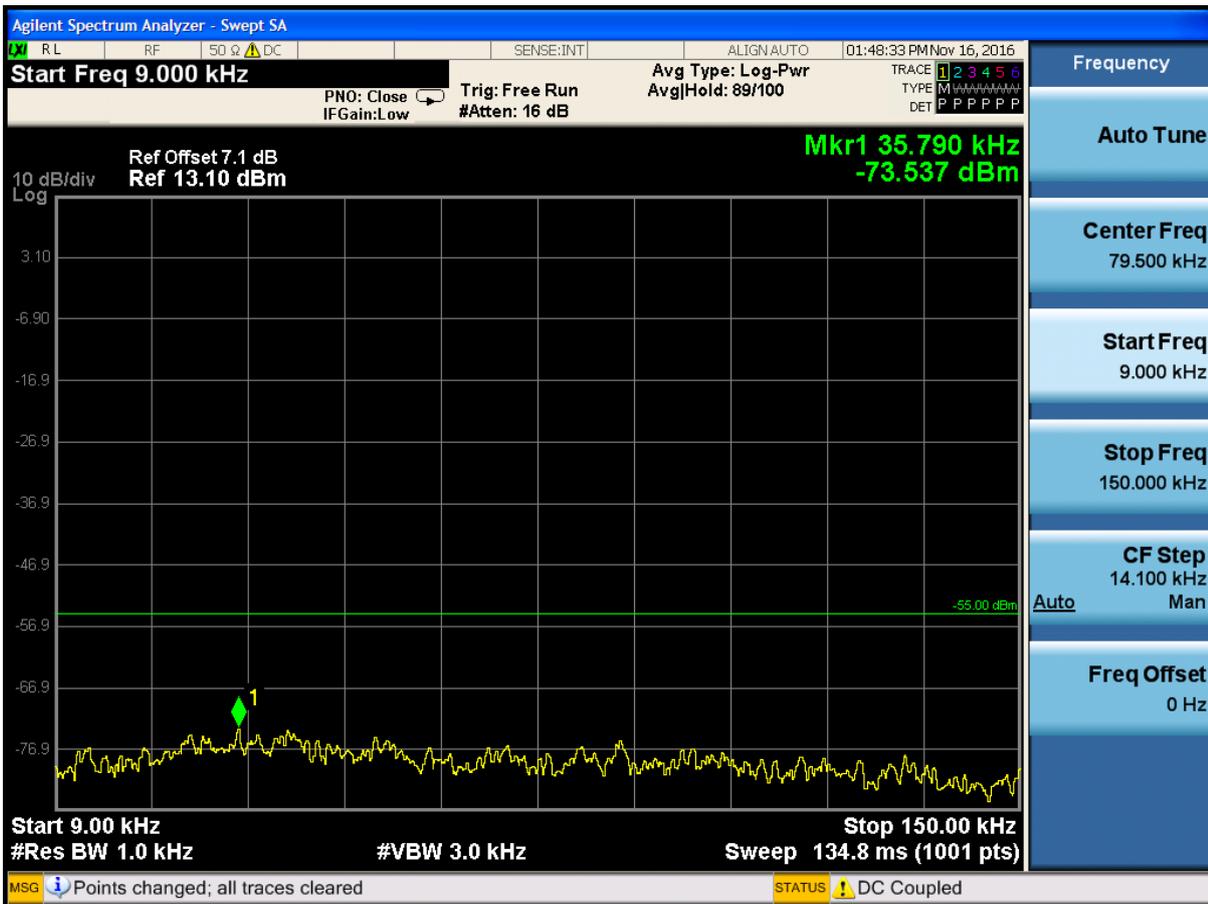


6.1.1.2 Test Mode = LTE/TM2

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

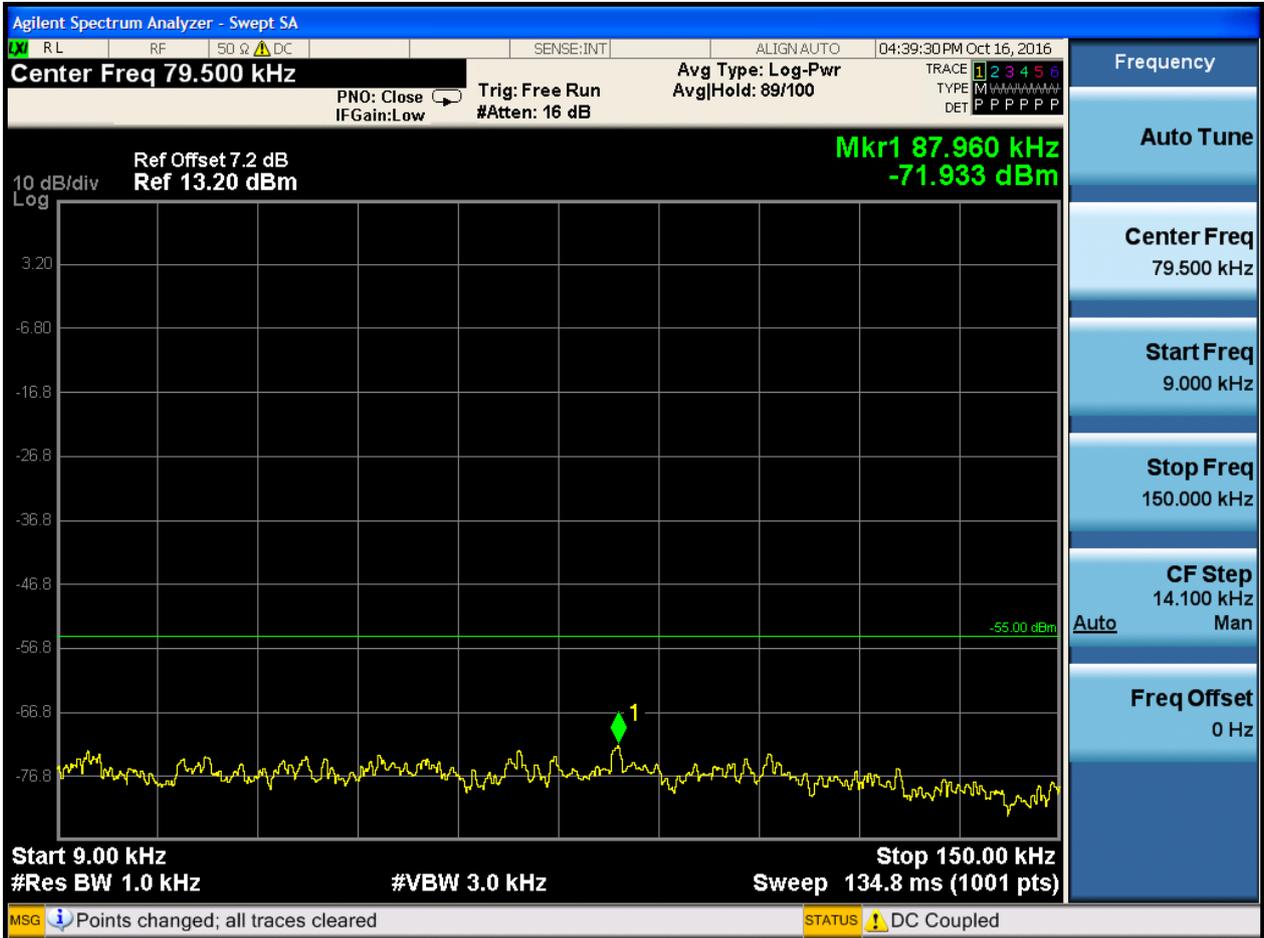






6.1.1.2.1.2 Test Channel = MCH

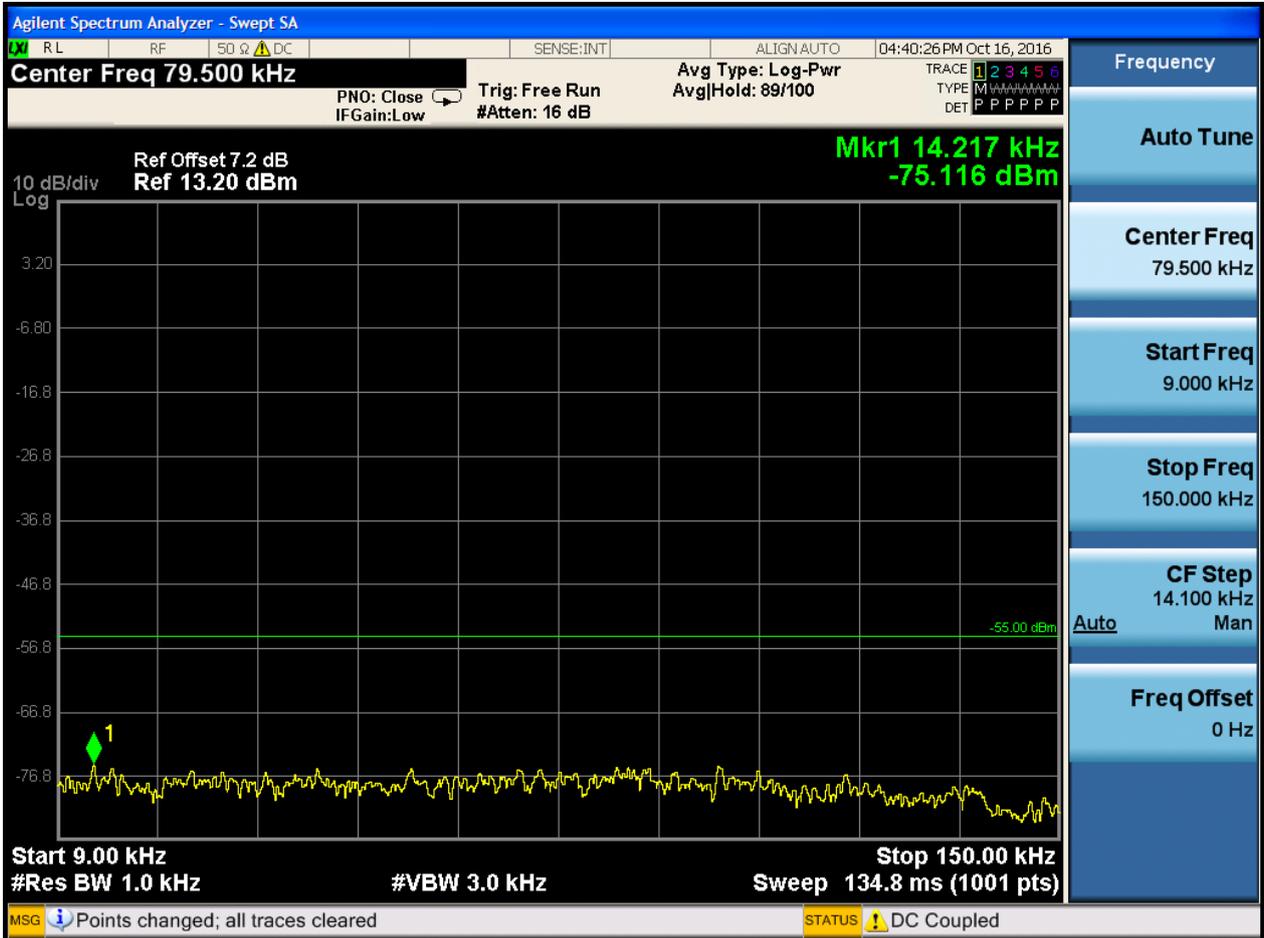
6.1.1.2.1.2.1 Test RB = RB1#0

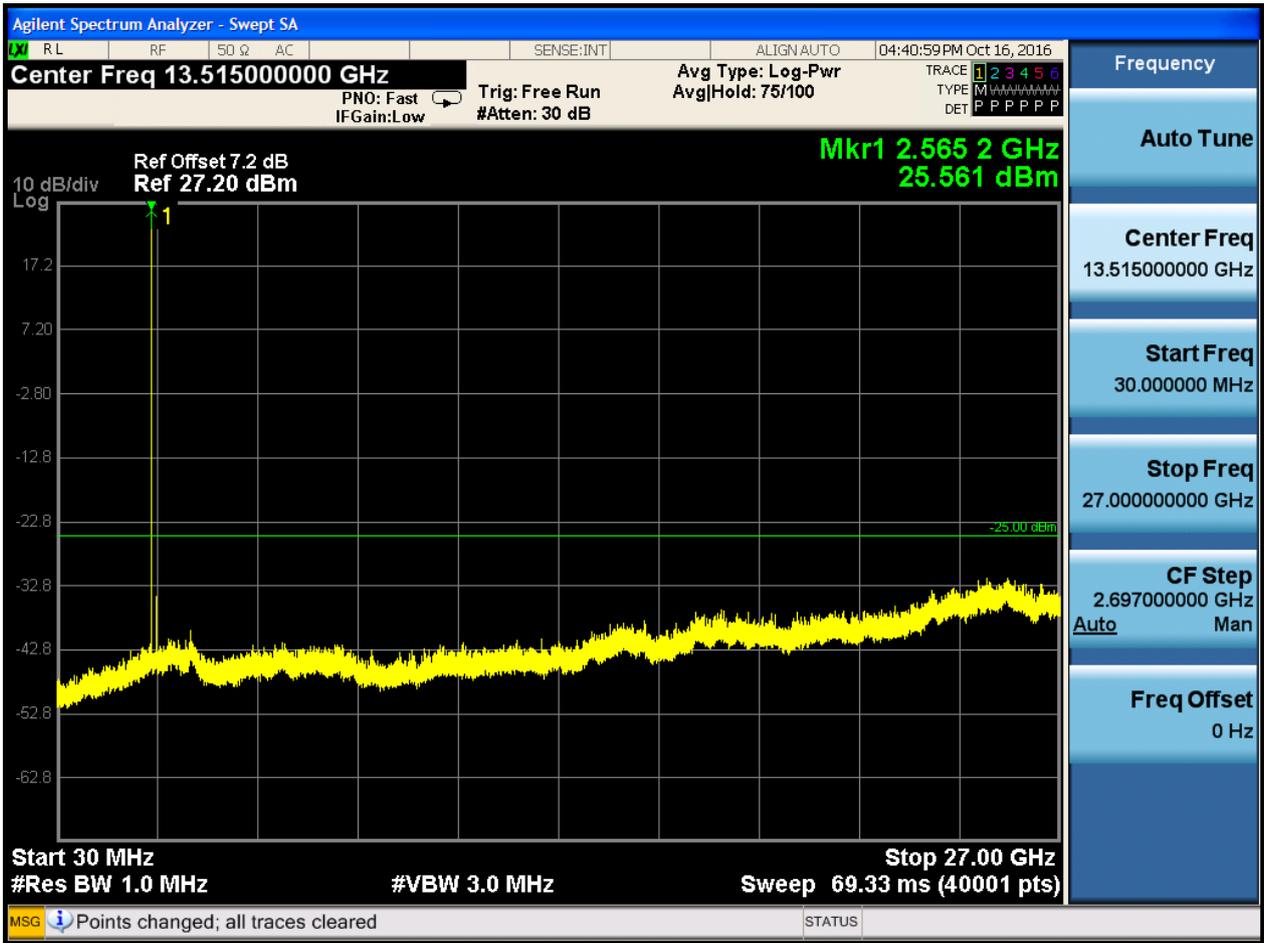




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



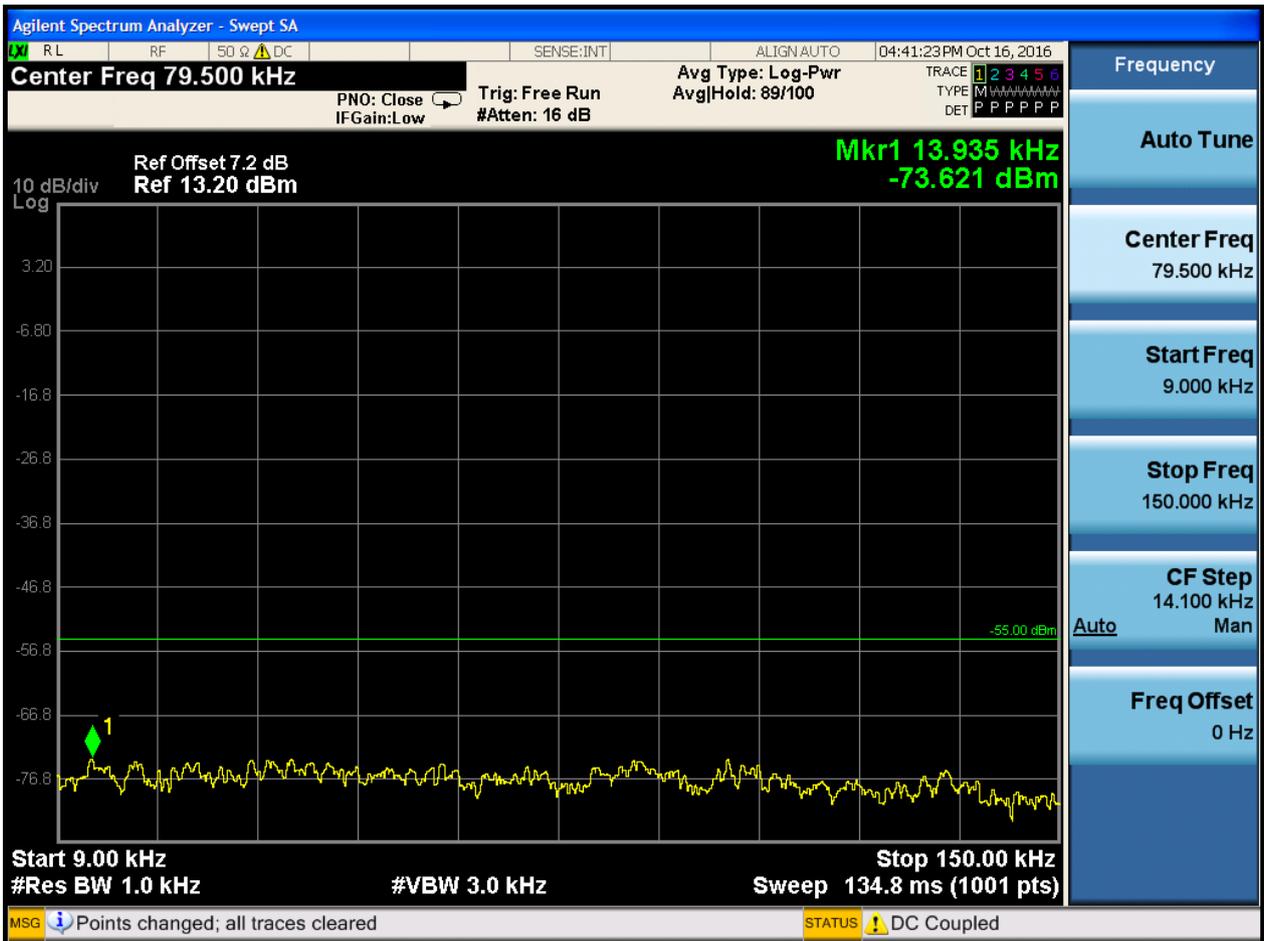




6.1.1.2.2 Test Bandwidth = 10

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

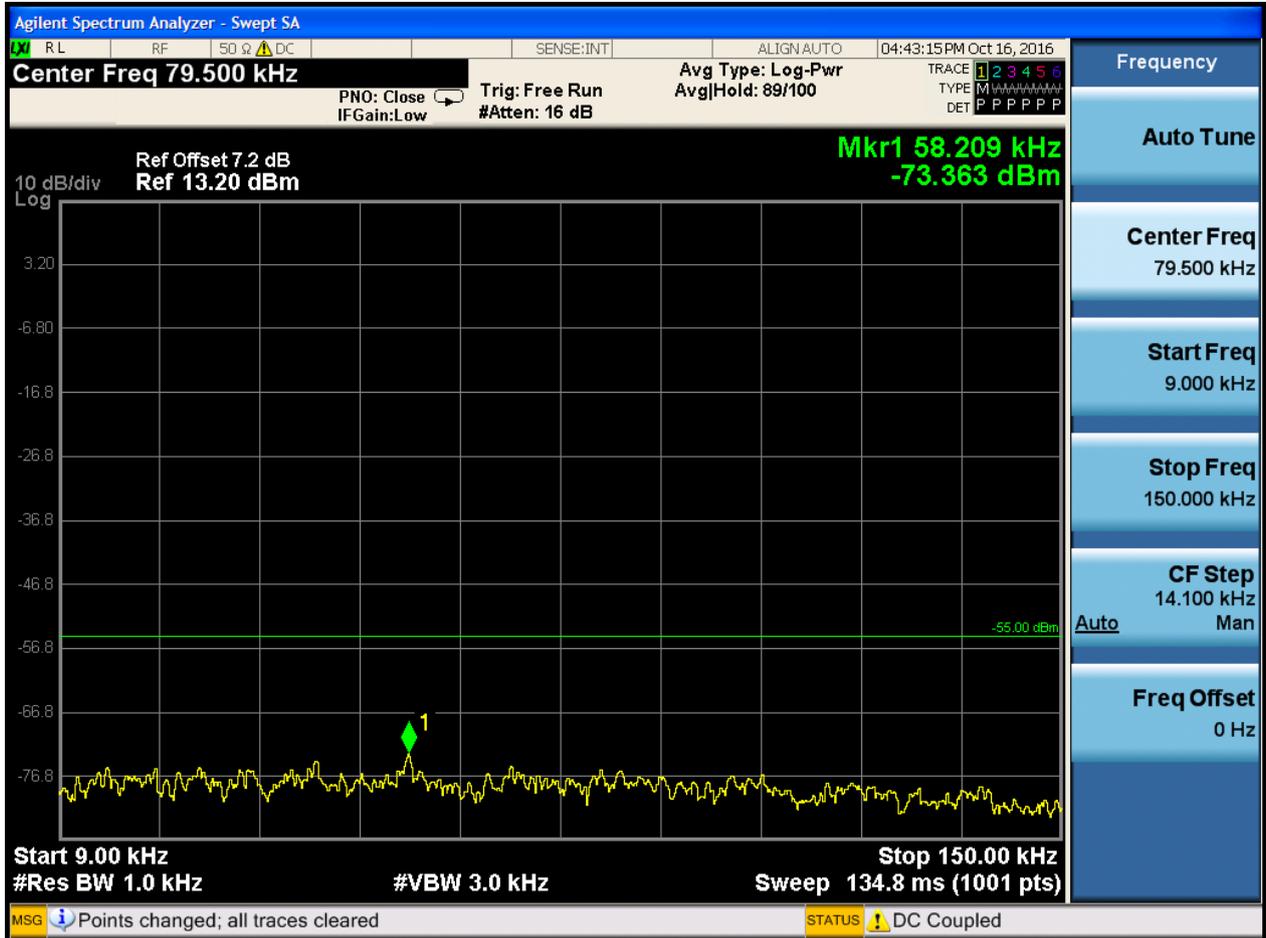
6.1.1.2.2.2.1 Test RB = RB1#0

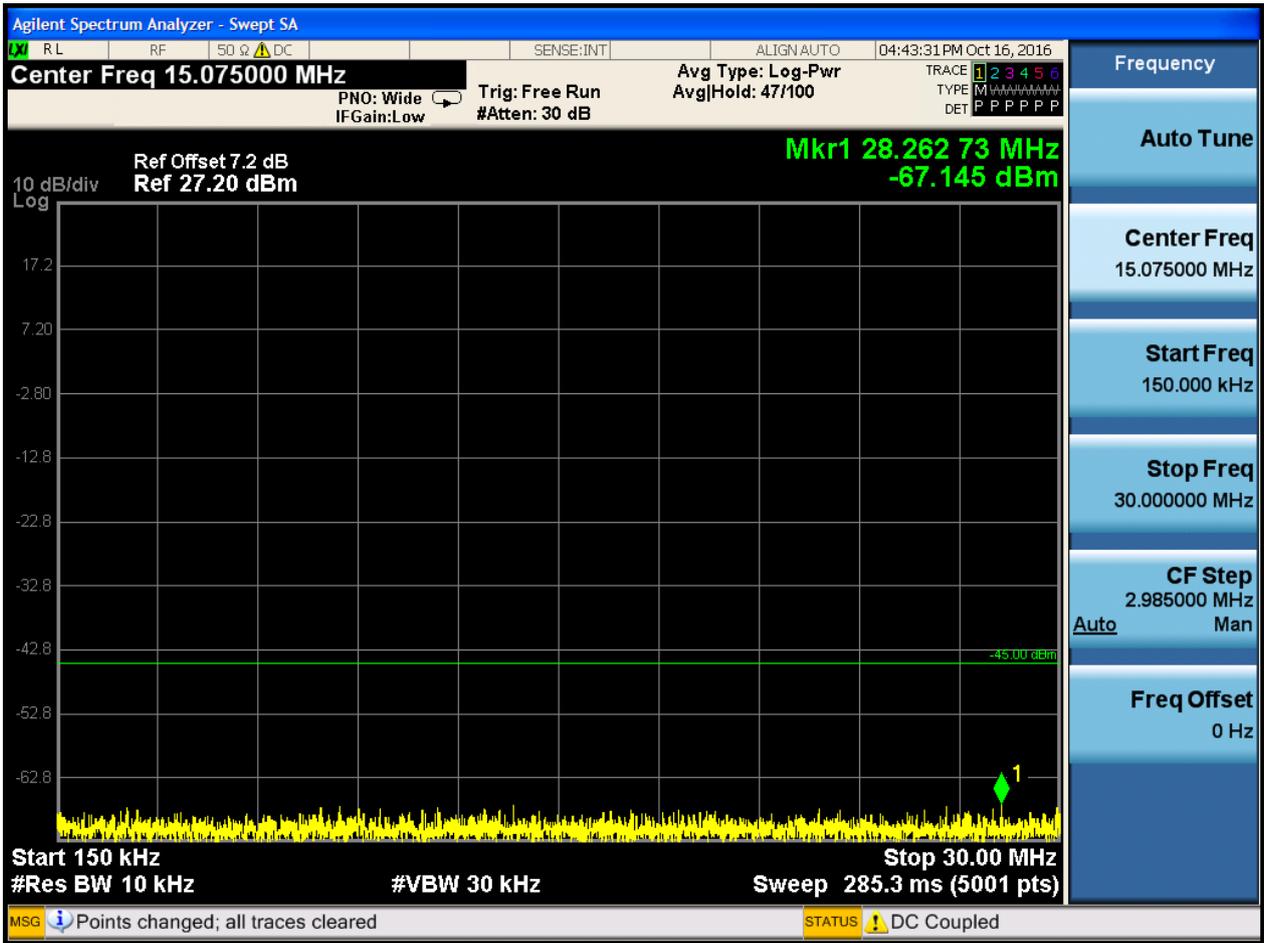


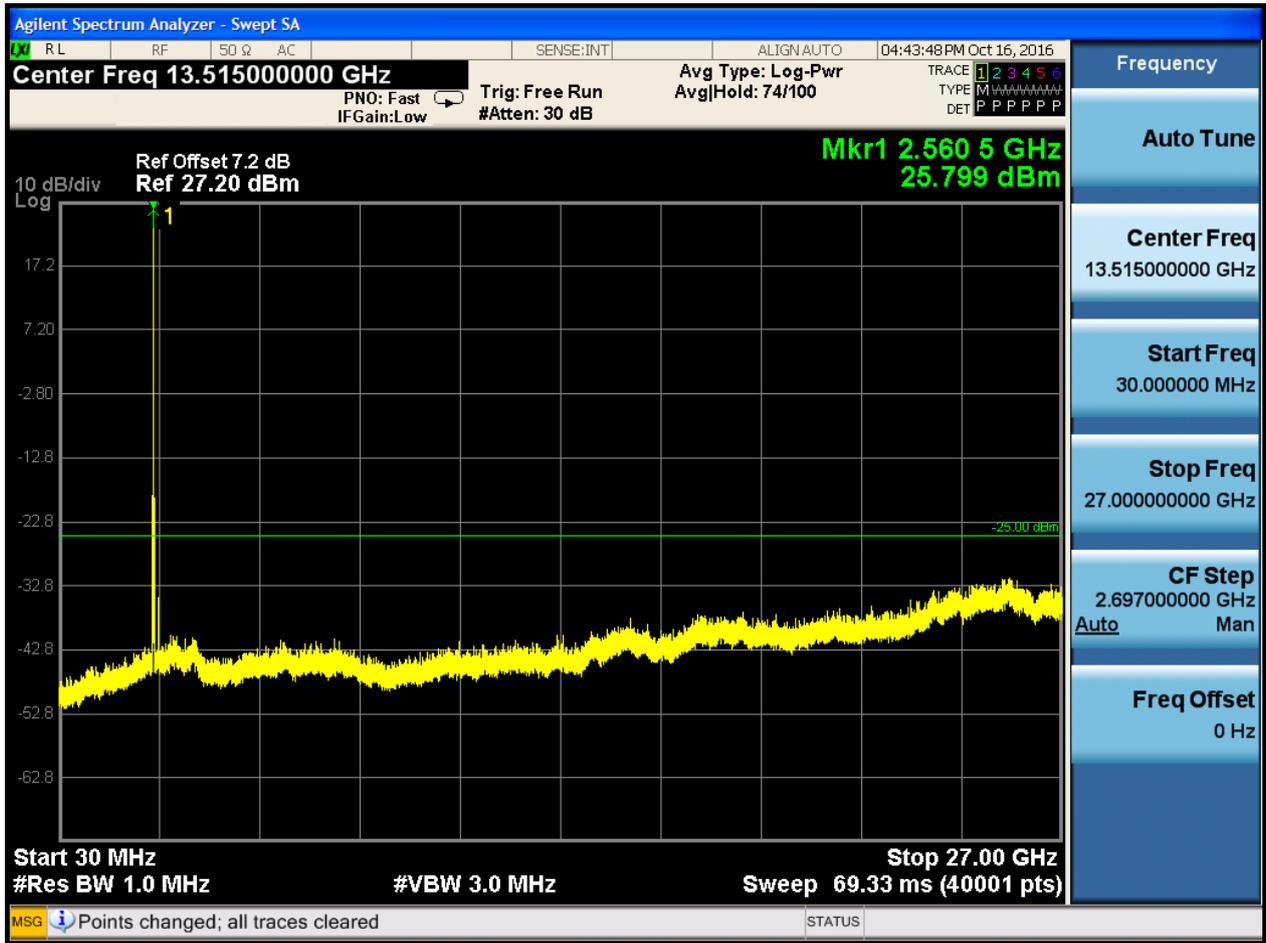


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





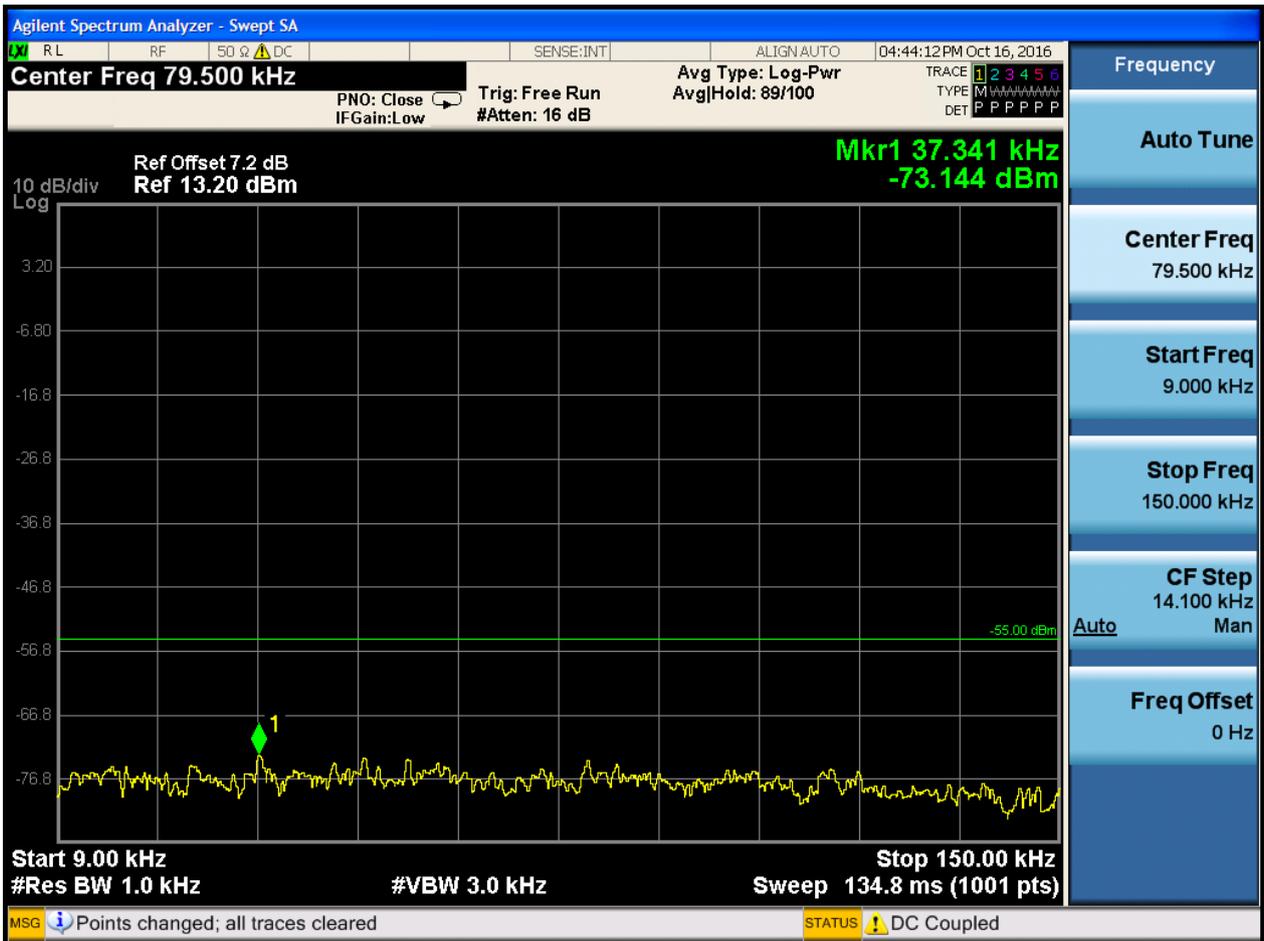


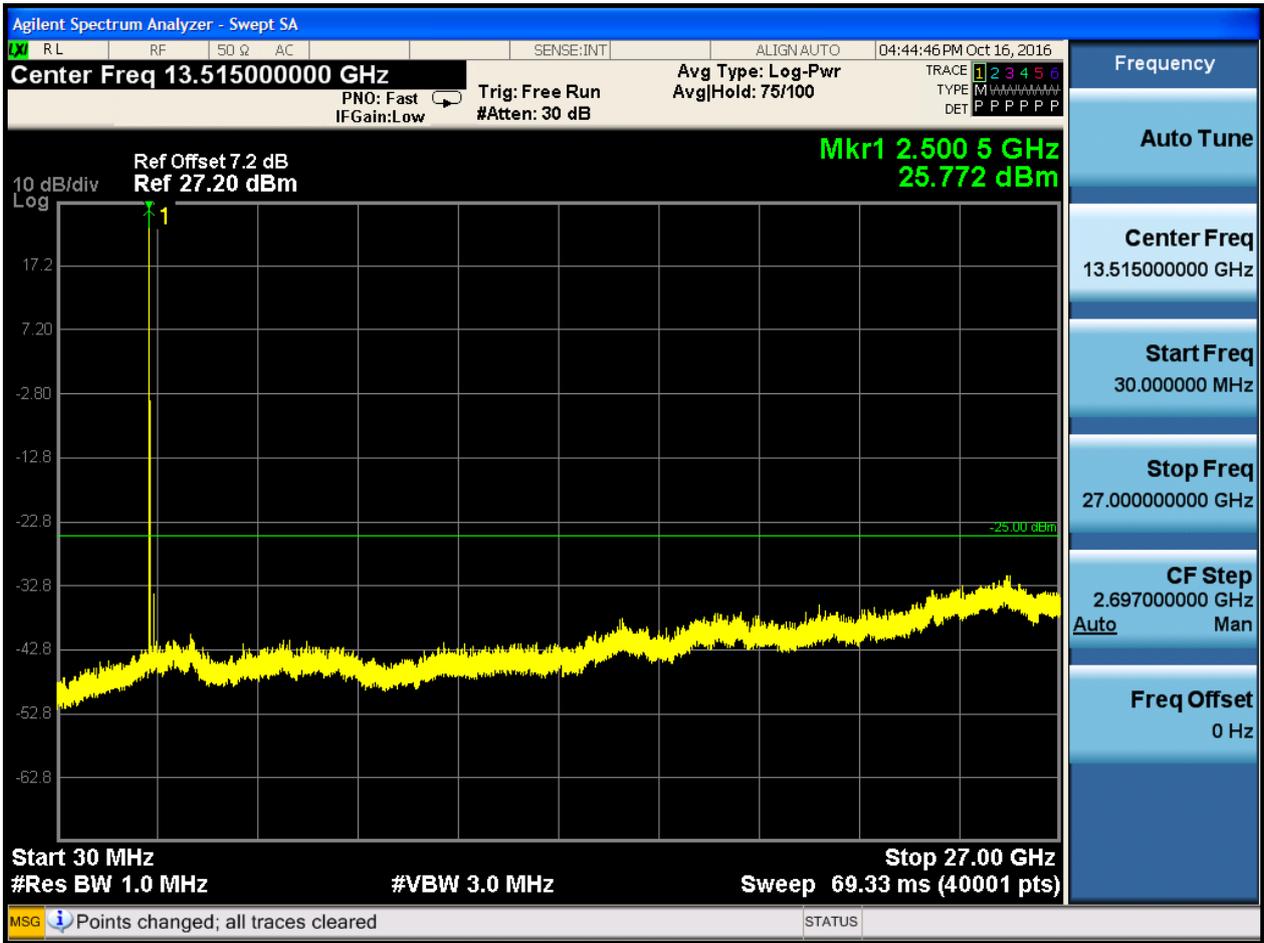


6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

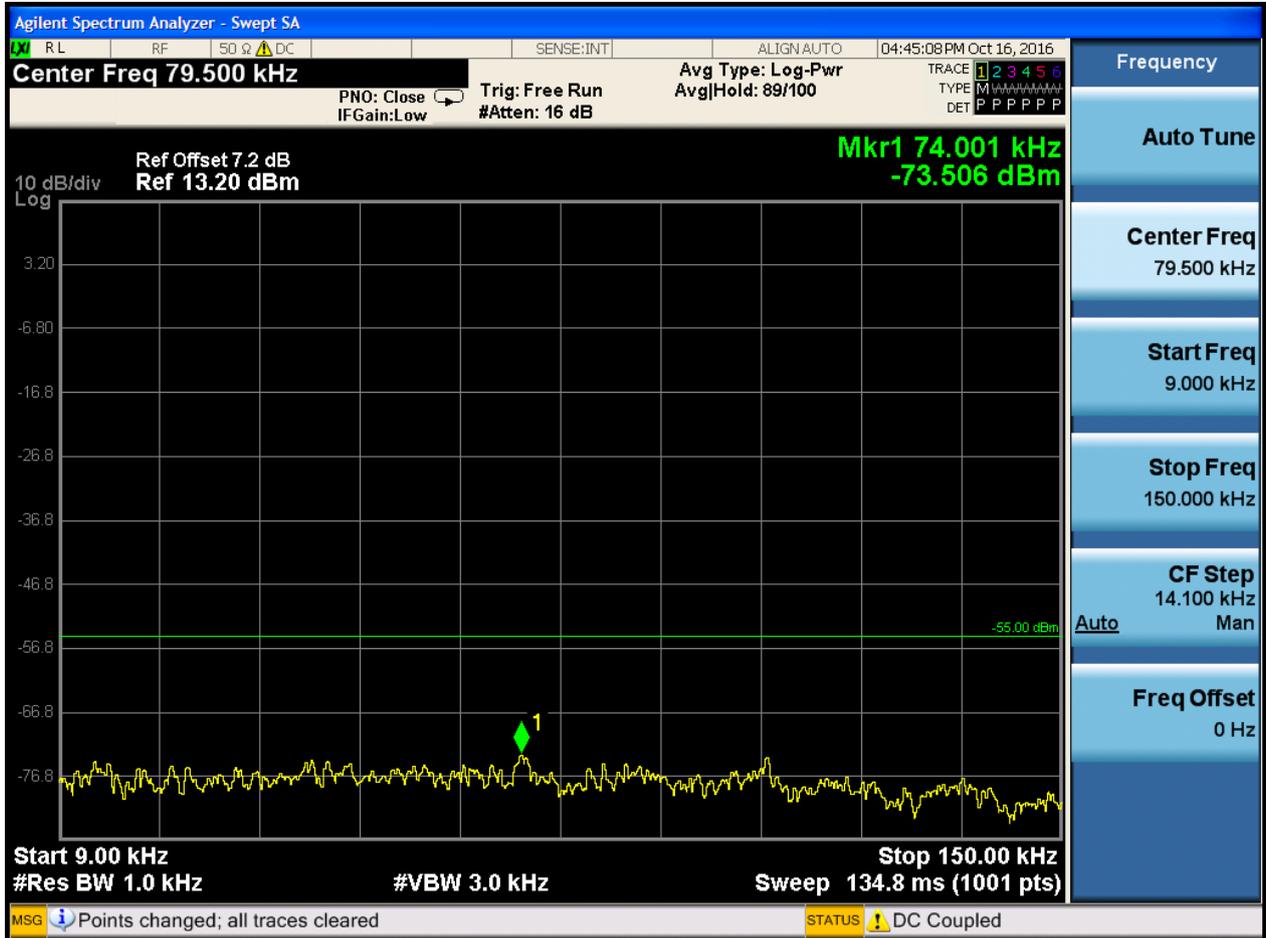


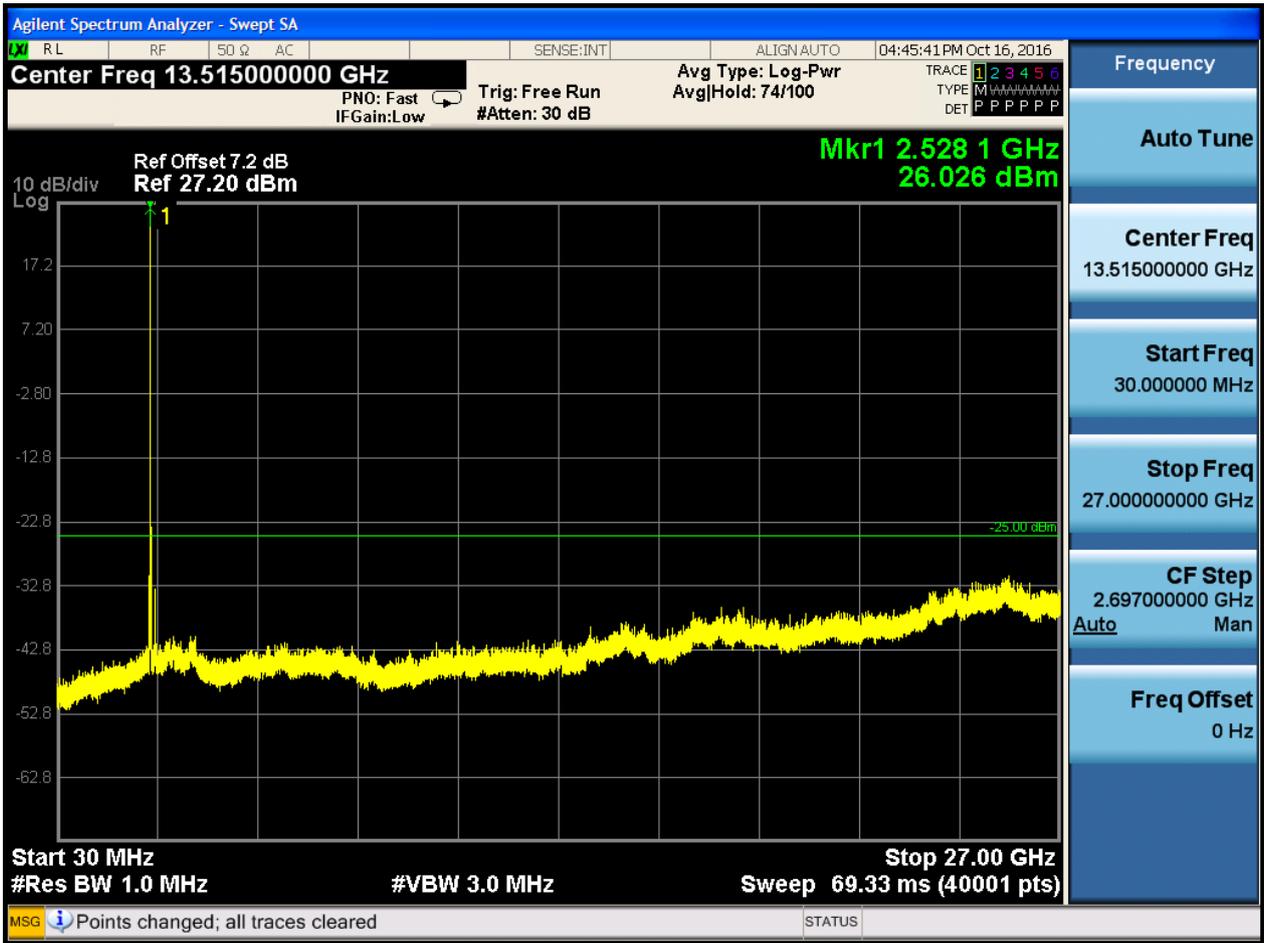




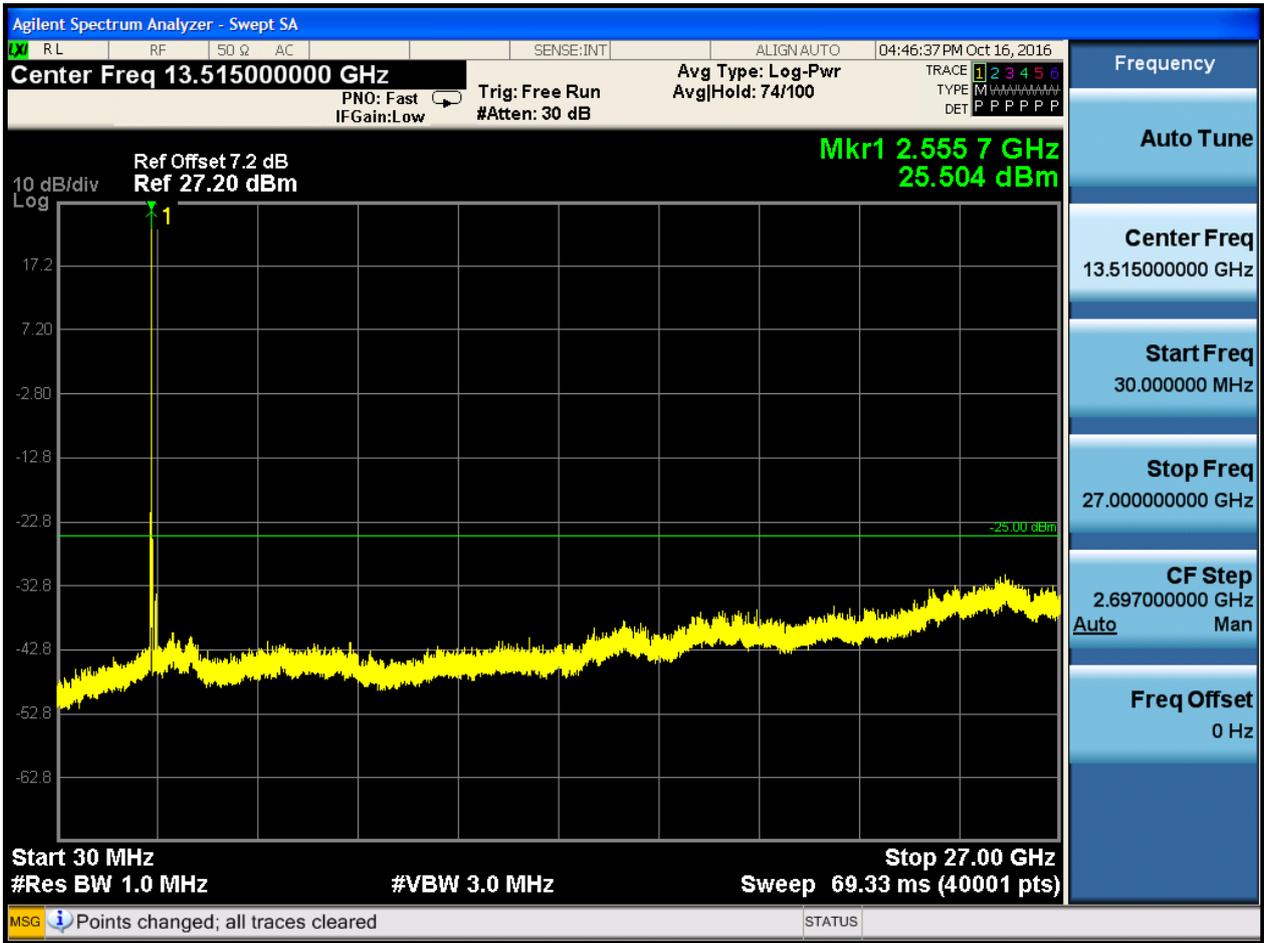
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0







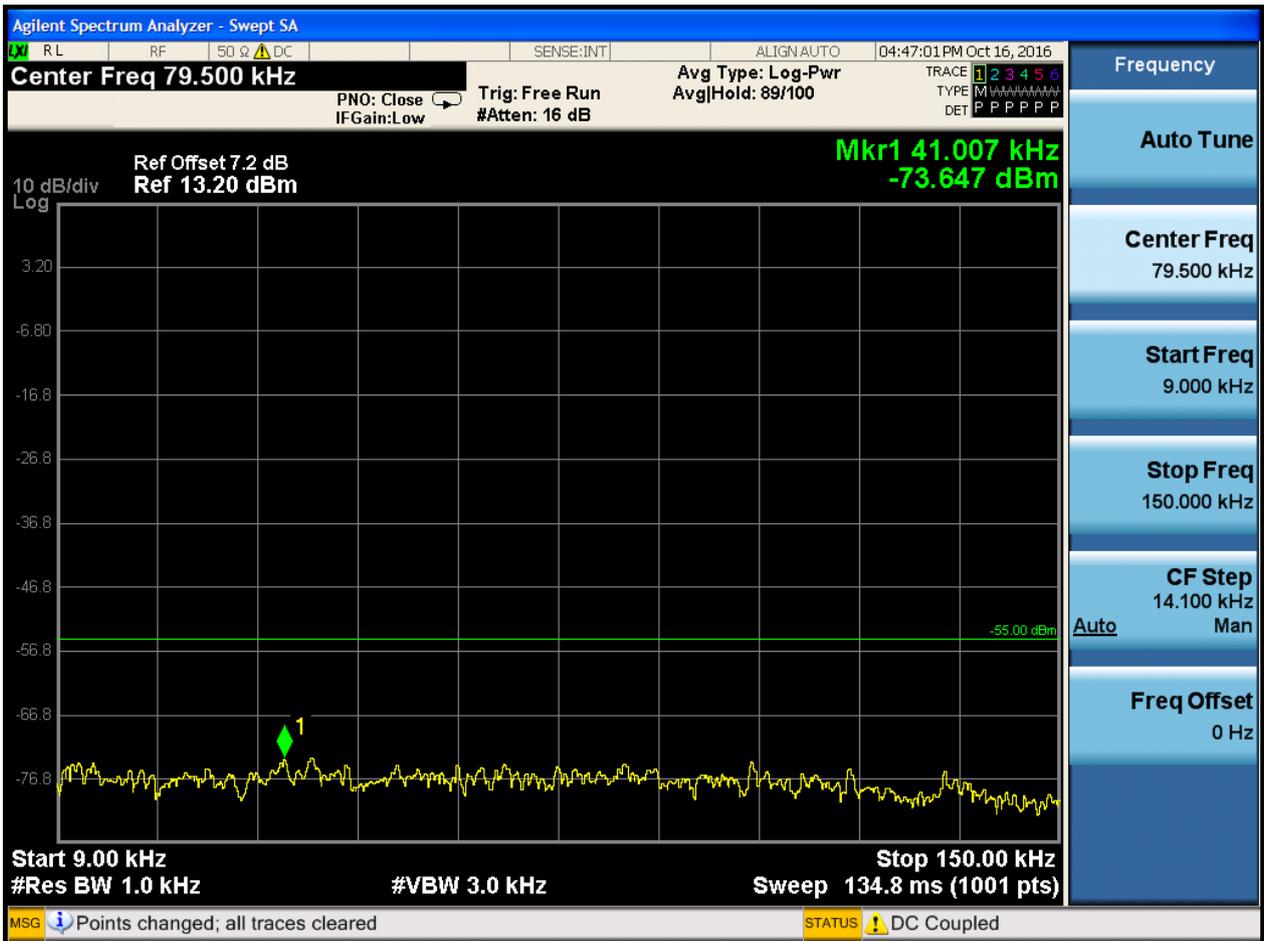


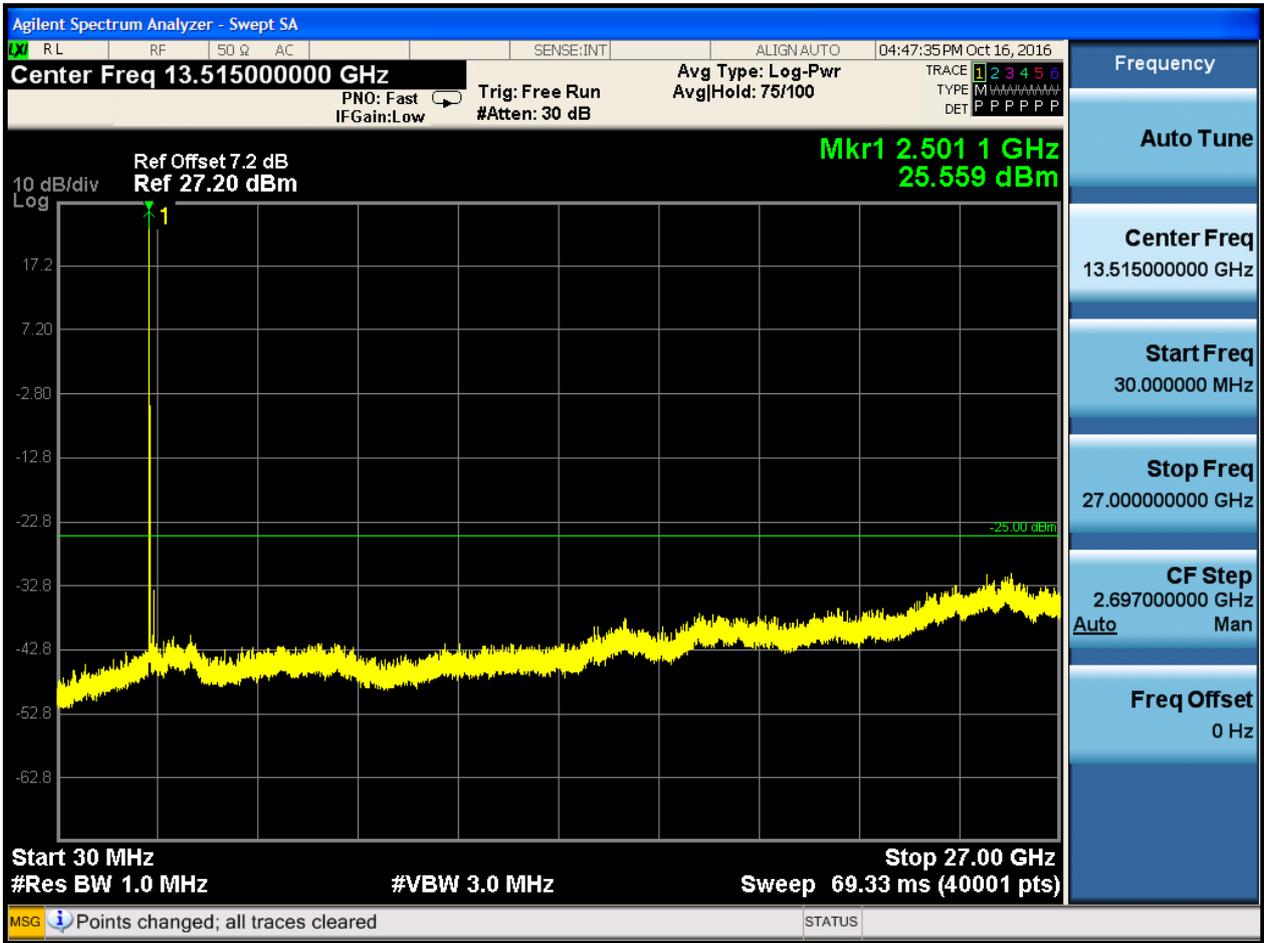


6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0

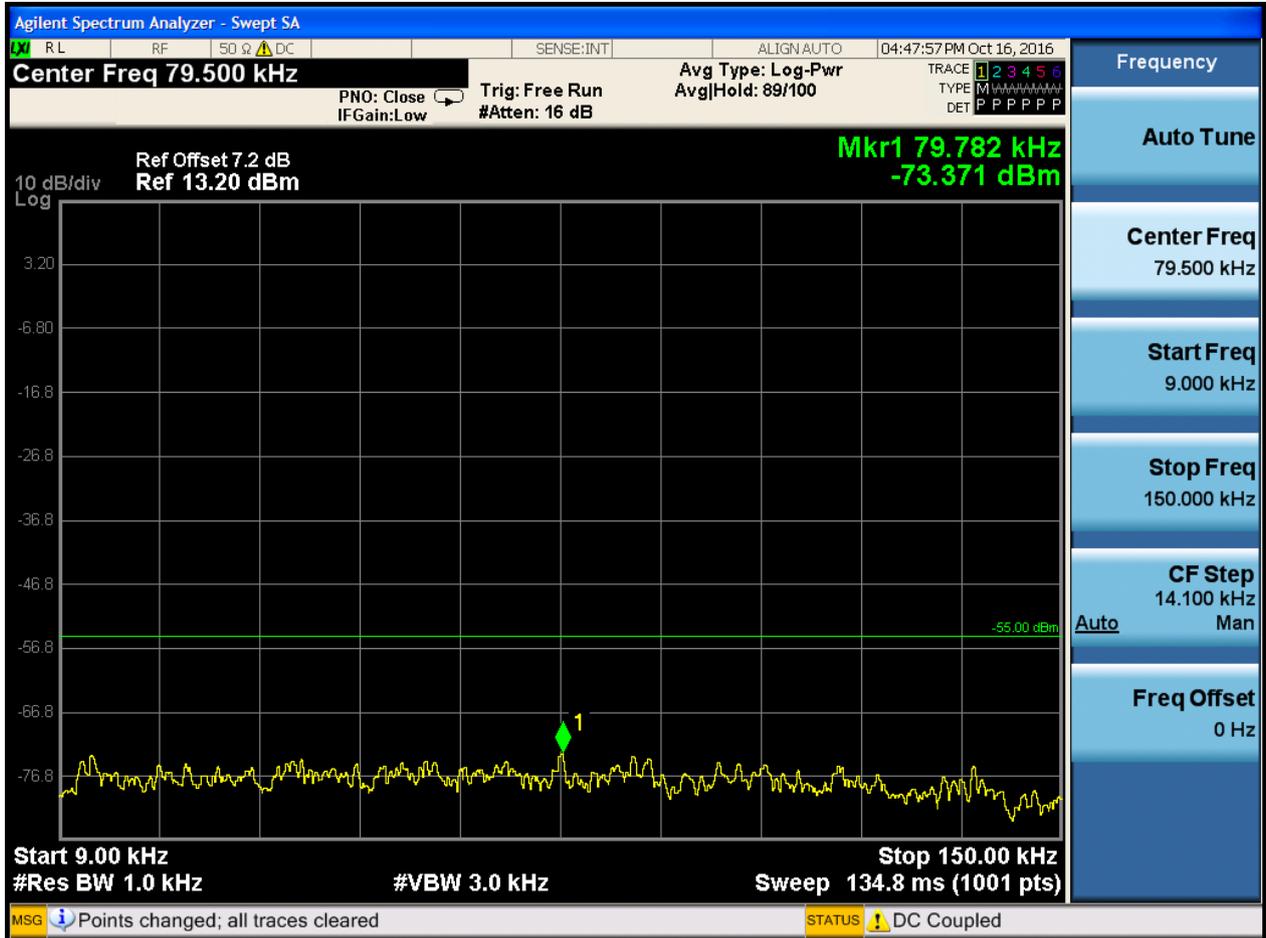


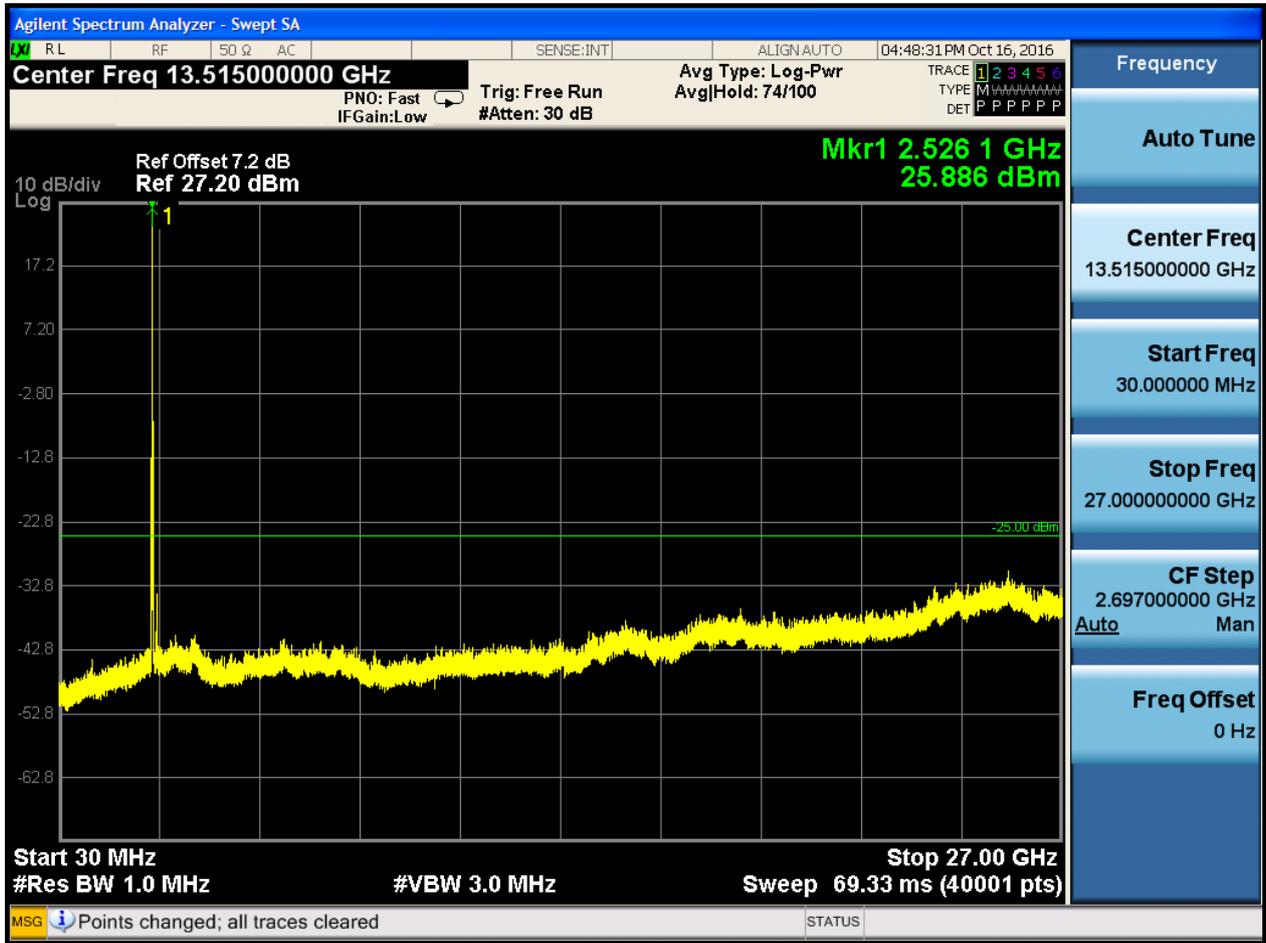




6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

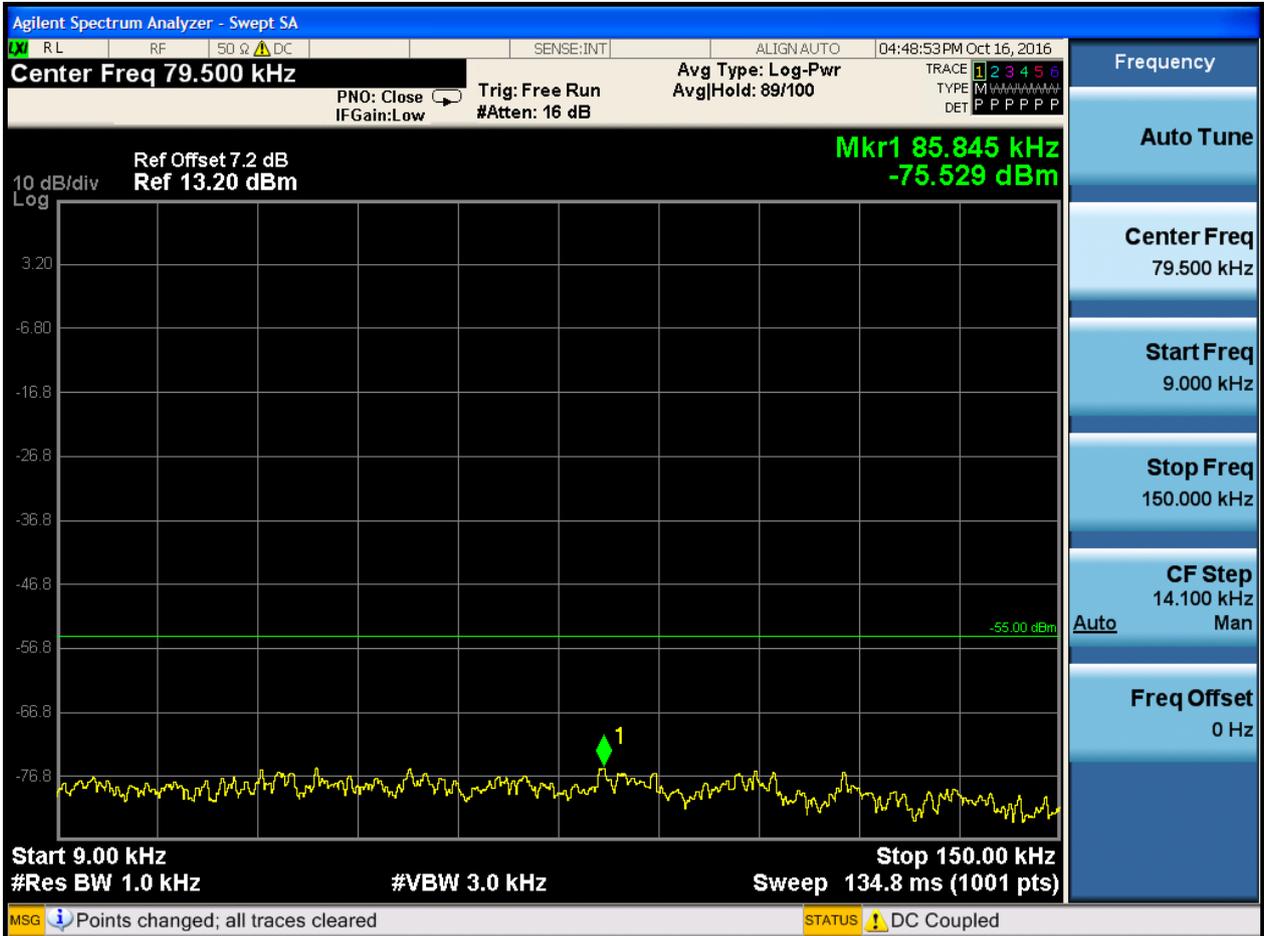


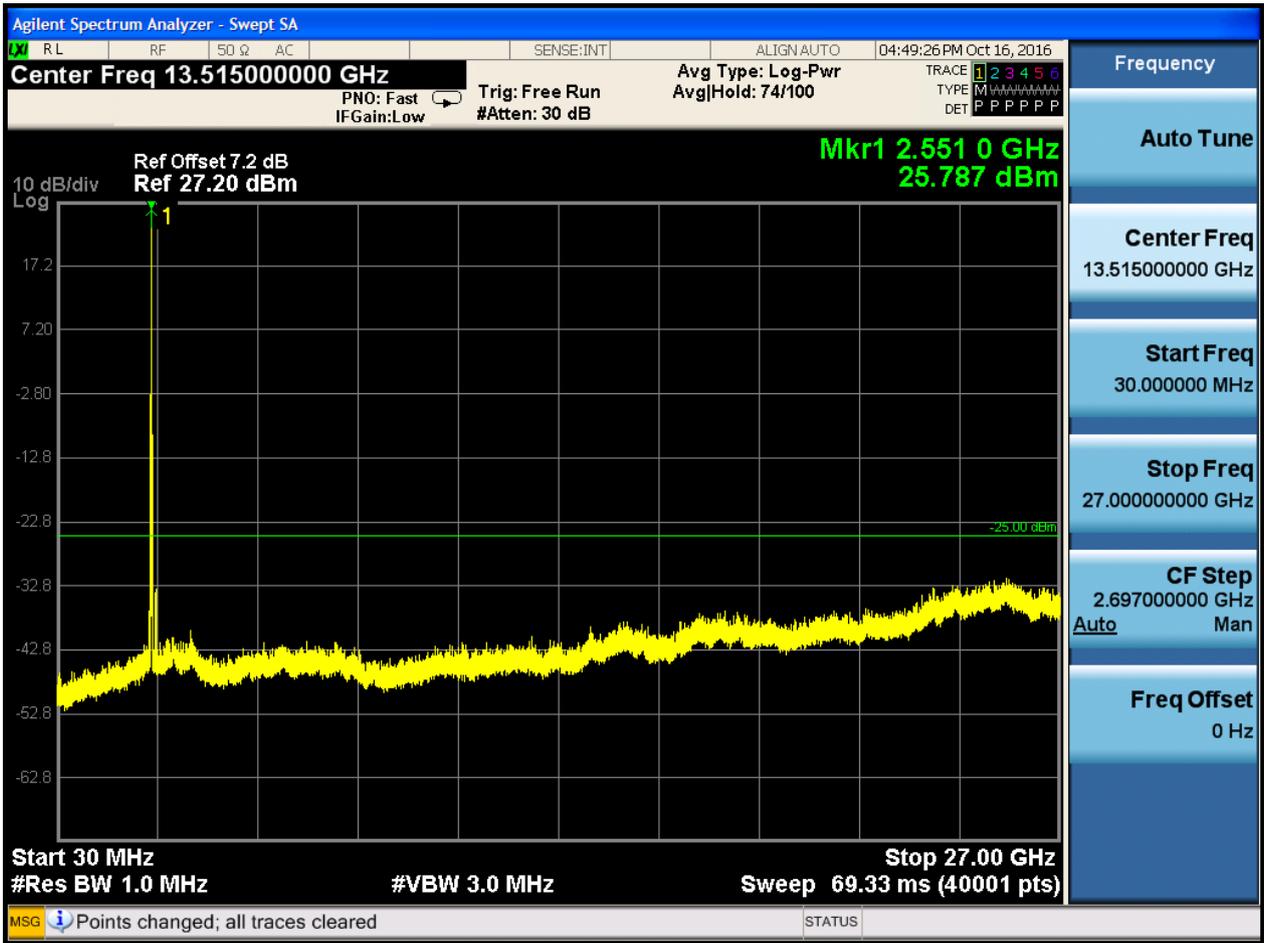




6.1.1.2.4.3 Test Channel = HCH

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

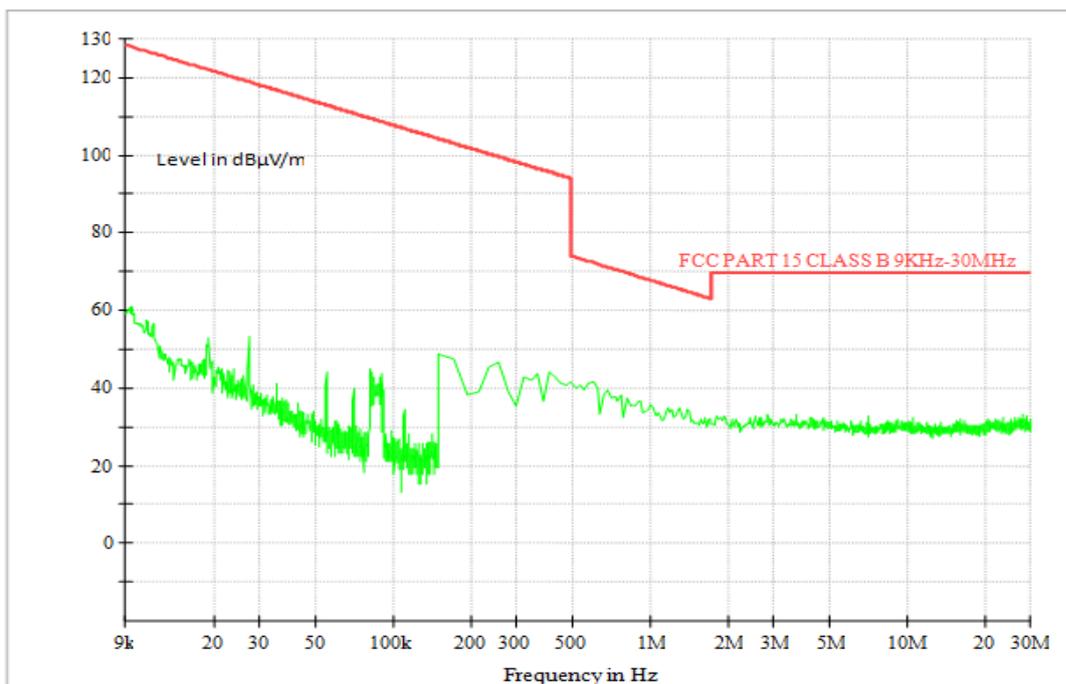
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

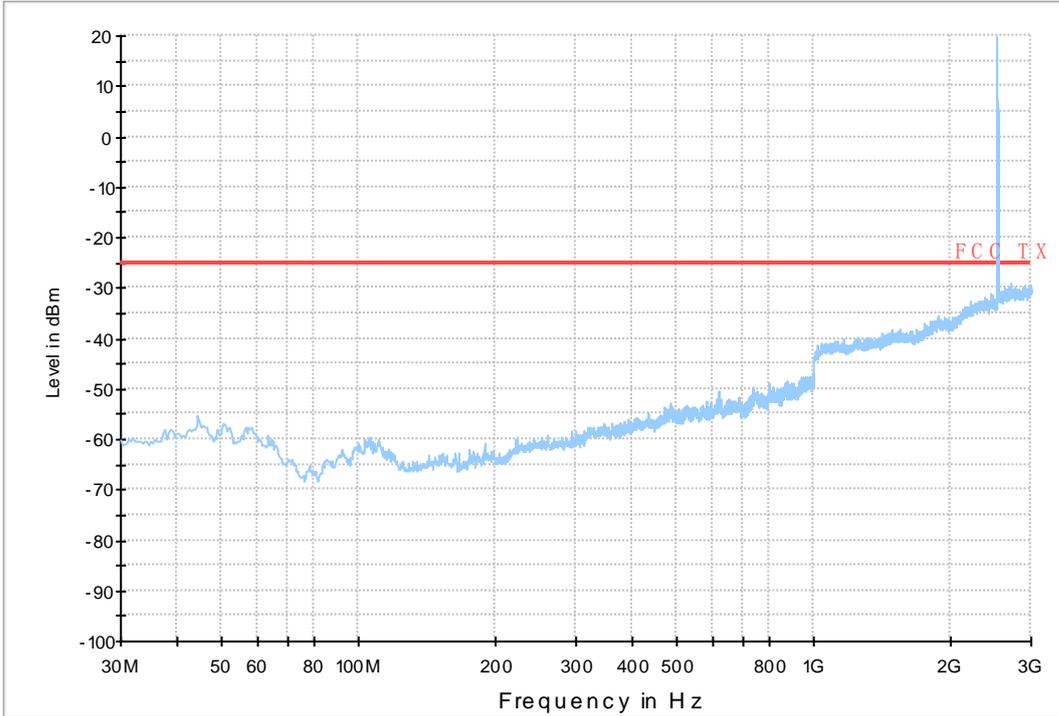
7.1 For LTE

7.1.1 Test Band = BAND7

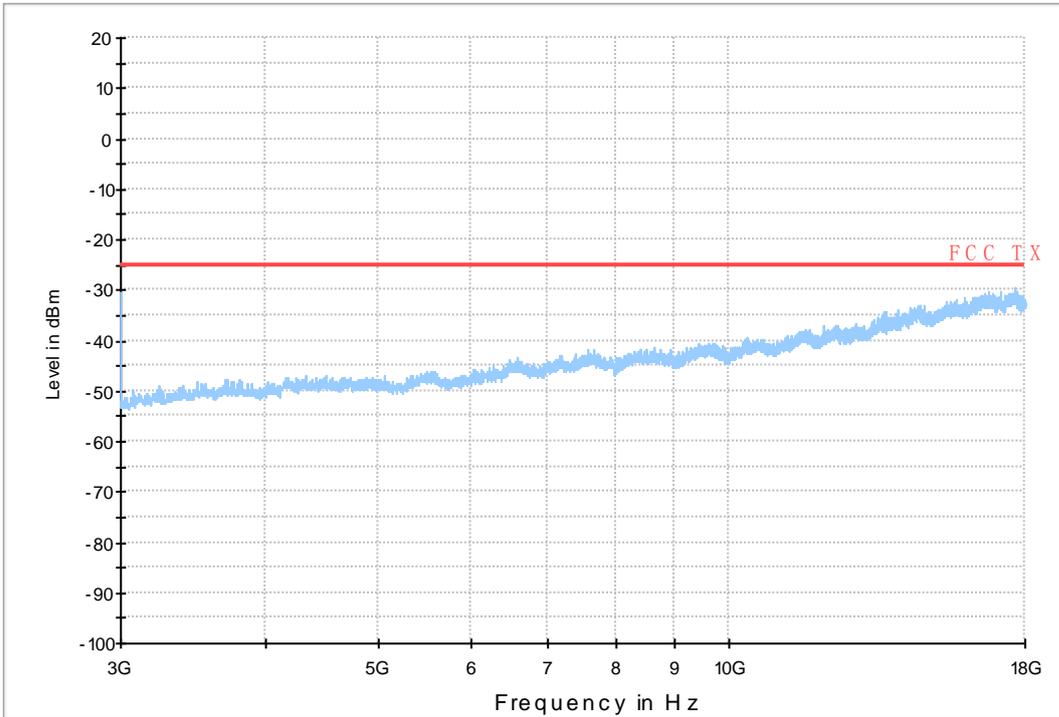
7.1.1.1 Test Bandwidth = 5

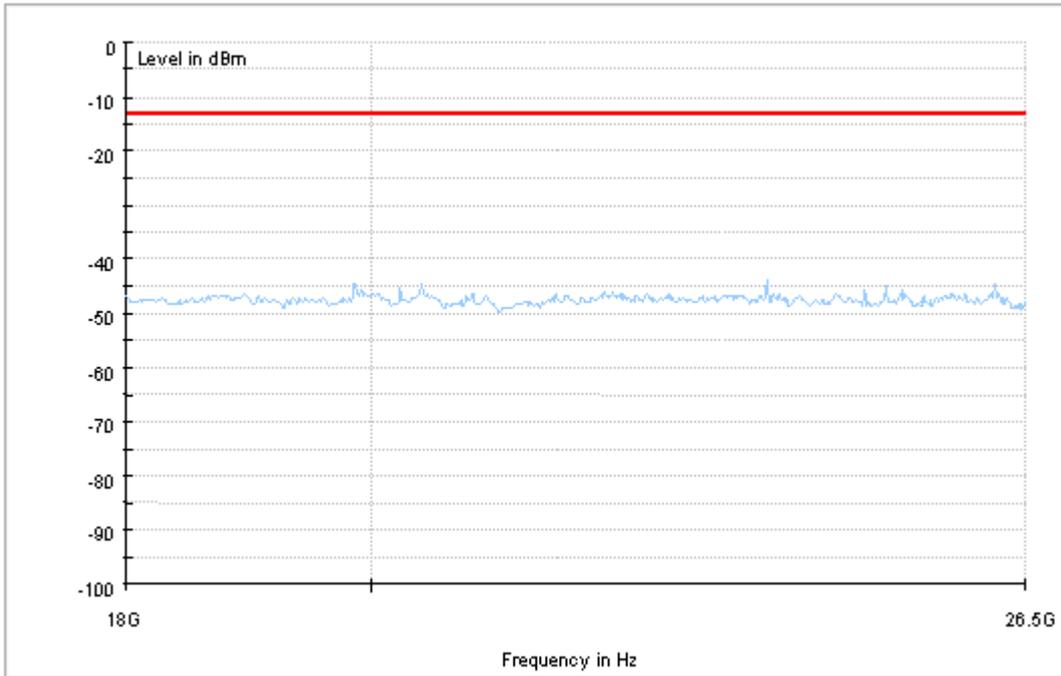


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

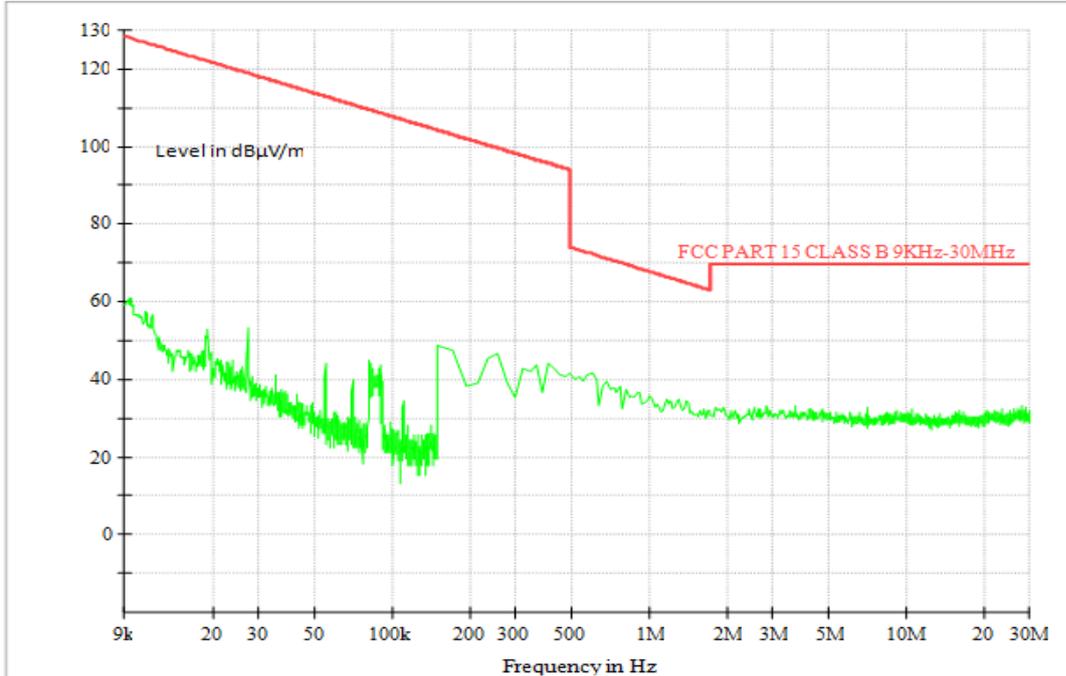


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

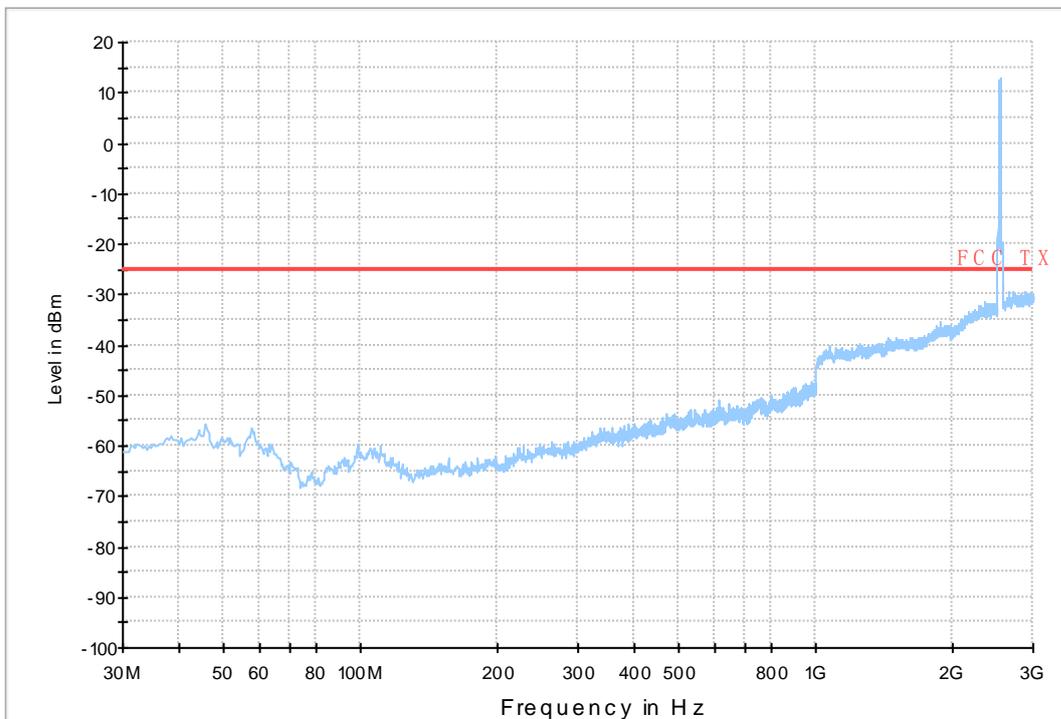




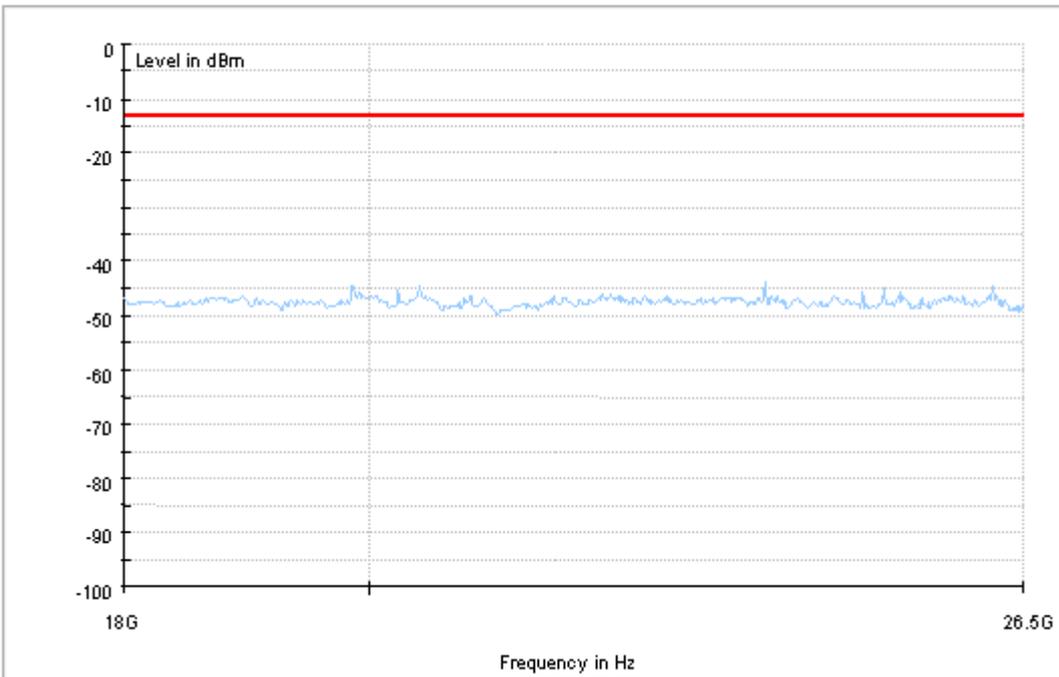
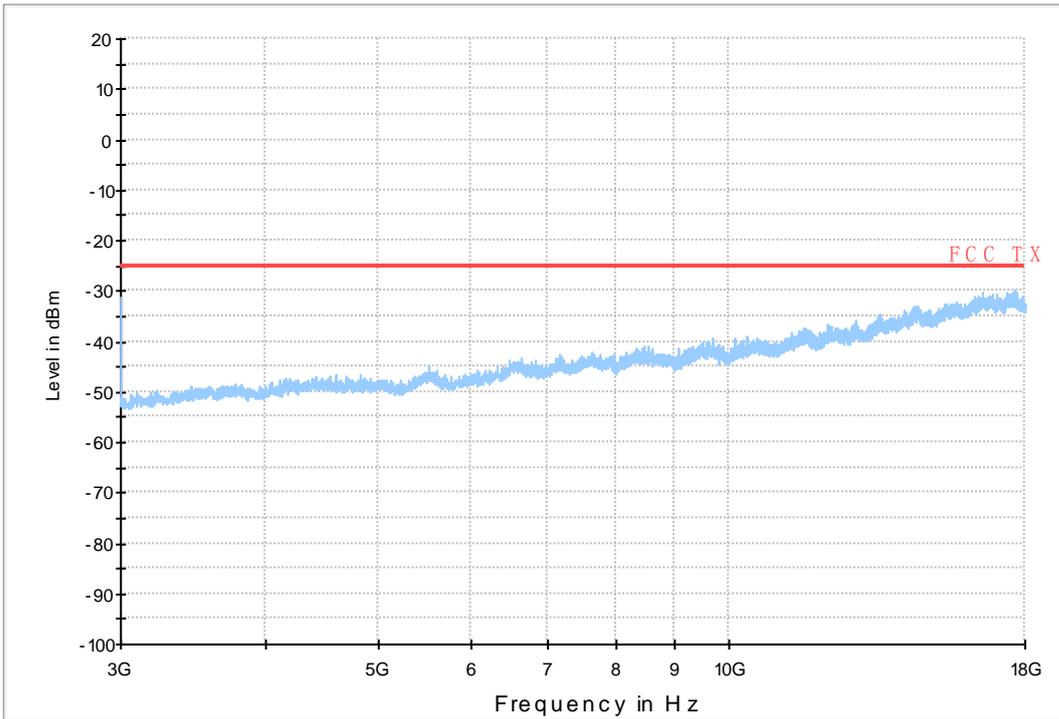
7.1.1.2 Test Bandwidth = 20



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	1.38	0.00038	PASS
					VN	2.16	0.00069	PASS
					VH	-2.45	-0.00116	PASS
			MCH	TN	VL	1.97	0.0006	PASS
					VN	-1.45	-0.00075	PASS
					VH	2.27	0.00072	PASS
			HCH	TN	VL	-0.3	-0.00029	PASS
					VN	-7.37	-0.00305	PASS
					VH	1.04	0.00023	PASS
		10	LCH	TN	VL	-14.65	-0.00602	PASS
					VN	-11.25	-0.00467	PASS
					VH	1.6	0.00046	PASS
			MCH	TN	VL	-1.05	-0.00059	PASS
					VN	1.44	0.00269	PASS
					VH	-5.77	-0.00015	PASS
			HCH	TN	VL	-3.49	0.00076	PASS
					VN	3.03	0.0033	PASS
					VH	3.04	0.00331	PASS
		15	LCH	TN	VL	-0.43	0.00195	PASS
					VN	1.77	0.00283	PASS
					VH	-2.99	0.00093	PASS
			MCH	TN	VL	-3.54	0.00073	PASS
					VN	2.73	0.0032	PASS
					VH	0.43	0.00229	PASS
			HCH	TN	VL	-10.83	-0.00214	PASS
					VN	-1.33	0.00157	PASS
					VH	-1.13	0.00165	PASS
		20	LCH	TN	VL	-2.09	0.00126	PASS
					VN	0.03	0.0021	PASS
					VH	-0.01	0.00208	PASS
			MCH	TN	VL	-6.49	-0.00047	PASS
					VN	0.3	0.00221	PASS
					VH	1.47	0.00267	PASS

LTE/TM2	5	HCH	TN	VL	-7.19	-0.00072	PASS
				VN	1.76	0.00278	PASS
				VH	1.15	0.00254	PASS
		LCH	TN	VL	1.83	0.00336	PASS
				VN	4.57	0.00445	PASS
				VH	2	0.00342	PASS
		MCH	TN	VL	0.84	0.00296	PASS
				VN	1.76	0.00328	PASS
				VH	2.4	0.00353	PASS
	HCH	TN	VL	-0.21	0.00251	PASS	
			VN	-11.01	-0.0017	PASS	
			VH	2.46	0.00355	PASS	
	10	LCH	TN	VL	3.43	0.00396	PASS
				VN	0.87	0.00294	PASS
				VH	-8.38	-0.00076	PASS
		MCH	TN	VL	11.4	0.00709	PASS
				VN	9.59	0.00637	PASS
				VH	9.07	0.00617	PASS
		HCH	TN	VL	-3.42	0.00125	PASS
				VN	0.22	0.00217	PASS
				VH	2.44	0.00309	PASS
	15	LCH	TN	VL	-6.43	-0.00043	PASS
				VN	1.78	0.00285	PASS
				VH	2.38	0.00309	PASS
		MCH	TN	VL	-2.41	0.00118	PASS
				VN	-8.84	-0.00135	PASS
				VH	1.34	0.00266	PASS
		HCH	TN	VL	-5.44	0.00001	PASS
				VN	1.38	0.00267	PASS
				VH	2.24	0.00301	PASS
	20	LCH	TN	VL	-2.69	0.00106	PASS
				VN	1.81	0.00286	PASS
				VH	-1.88	0.00139	PASS
		MCH	TN	VL	-5.83	-0.00016	PASS
				VN	1.43	0.0027	PASS
				VH	0.67	0.0024	PASS
		HCH	TN	VL	-0.42	0.00197	PASS
				VN	1.93	0.00289	PASS
				VH	-8.06	-0.00101	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	-0.91	-0.00546	PASS
					-20	-1.85	-0.00584	PASS
					-10	0.41	-0.00493	PASS
					0	-1.64	-0.00575	PASS
					10	-9.68	-0.00896	PASS
					20	-4.72	-0.00698	PASS
					30	-3.5	-0.00649	PASS
					40	-1.6	-0.00574	PASS
					50	2.25	-0.0042	PASS
			MCH	VN	-30	-2.36	-0.00603	PASS
					-20	-4.03	-0.00669	PASS
					-10	-4.59	-0.00691	PASS
					0	-5.04	-0.00709	PASS
					10	-2.7	-0.00617	PASS
					20	-0.37	-0.00551	PASS
					30	-1.66	-0.00602	PASS
					40	-1.91	-0.00612	PASS
					50	-4.93	-0.00731	PASS
			HCH	VN	-30	-5.55	-0.00753	PASS
					-20	-2.64	-0.00639	PASS
					-10	-4.36	-0.00706	PASS
					0	-7.54	-0.0083	PASS
					10	-0.84	-0.00569	PASS
					20	-6.06	-0.00772	PASS
		30			-4.8	-0.00723	PASS	
		40			-4.67	-0.00718	PASS	
		50			-3.33	-0.00666	PASS	
		10	LCH	VN	-30	-15.5	-0.01155	PASS
					-20	-15.92	-0.01172	PASS
					-10	-21.51	-0.01395	PASS
					0	-56.02	-0.02773	PASS
					10	-15.75	-0.01165	PASS
					20	-3.82	-0.00689	PASS
					30	-9.08	-0.00899	PASS
					40	-13.07	-0.01058	PASS
					50	-27.05	-0.01616	PASS
MCH	VN		-30	-2.69	-0.00643	PASS		
			-20	-1.97	-0.00614	PASS		

					-10	-3.17	-0.00622	PASS	
					0	-2.8	-0.00137	PASS	
					10	-3.57	-0.00167	PASS	
					20	-4.78	-0.00215	PASS	
					30	-1.91	-0.00102	PASS	
					40	-1.99	-0.00105	PASS	
					50	-1.16	-0.00072	PASS	
			HCH	VN	-30	-5.67	-0.00248	PASS	
					-20	-3.15	-0.0015	PASS	
					-10	-0.52	-0.00047	PASS	
					0	-3.67	-0.0017	PASS	
					10	-4.86	-0.00217	PASS	
					20	0.18	-0.0002	PASS	
					30	-1.98	-0.00104	PASS	
		LCH	VN	40	-4.57	-0.00205	PASS		
				50	-4.57	-0.00205	PASS		
				-30	-18.95	-0.00782	PASS		
				-20	-32.14	-0.01308	PASS		
				-10	-22.09	-0.00907	PASS		
				0	-24.94	-0.01021	PASS		
				10	-11.54	-0.00486	PASS		
				20	-19.02	-0.00785	PASS		
				30	-22.36	-0.00918	PASS		
				40	-18.16	-0.0075	PASS		
				50	-16.17	-0.00671	PASS		
				MCH	VN	-30	-3.75	-0.00175	PASS
						-20	-4.48	-0.00203	PASS
						-10	-4.41	-0.00201	PASS
		0	-3.64			-0.0017	PASS		
		10	-2.22			-0.00114	PASS		
		20	-5.38			0.00061	PASS		
		30	-3.8			0.00124	PASS		
		40	-5.31			0.00064	PASS		
		HCH	VN	50	-2.27	0.00184	PASS		
				-30	-5.44	0.00061	PASS		
				-20	-4.64	0.00092	PASS		
				-10	-2.02	0.00194	PASS		
				0	-2.57	0.00173	PASS		
				10	-0.68	0.00246	PASS		
				20	-5.13	0.00073	PASS		
30	-3.17	0.00149	PASS						

		20	LCH	VN	40	-4.2	0.00109	PASS
					50	-5.21	0.0007	PASS
					-30	-4.72	0.00052	PASS
					-20	-3.91	0.00084	PASS
					-10	-7.43	-0.00056	PASS
					0	-12.62	-0.00263	PASS
					10	-4.38	0.00065	PASS
					20	-1.38	0.00185	PASS
					30	-5.63	0.00015	PASS
					40	-2.41	0.00144	PASS
			50	-0.7	0.00212	PASS		
			MCH	VN	-30	-1.22	0.00191	PASS
					-20	-1.76	0.0017	PASS
					-10	-0.95	0.00202	PASS
					0	-2.99	0.00122	PASS
					10	-4.1	0.00078	PASS
					20	-1.35	0.00186	PASS
					30	-2.51	0.0014	PASS
			HCH	VN	40	-2.34	0.00147	PASS
					50	-4.15	0.00076	PASS
	-30	-2.54			0.0014	PASS		
	-20	-3.49			0.00103	PASS		
	-10	-1.51			0.0018	PASS		
	0	-3.17			0.00116	PASS		
	LCH	VN	10	-1.19	0.00193	PASS		
			20	-4.95	0.00046	PASS		
			30	-2.44	0.00144	PASS		
			40	-3.21	0.00114	PASS		
			50	-4.11	0.00079	PASS		
			-30	-6.28	-0.00011	PASS		
			-20	-9.99	-0.0016	PASS		
			-10	-1.79	0.00168	PASS		
			0	-4.77	0.00021	PASS		
10			-1.77	0.0014	PASS			
20			1.92	0.00288	PASS			
30			-1.63	0.00146	PASS			
40			-1.11	0.00167	PASS			
50	-3.47	0.00073	PASS					
MCH	VN	-30	-1.84	0.00139	PASS			
		-20	-2.16	0.00126	PASS			
		-10	-0.98	0.00173	PASS			
LTE/TM2	5	LCH	VN	-30	-6.28	-0.00011	PASS	
				-20	-9.99	-0.0016	PASS	
				-10	-1.79	0.00168	PASS	
				0	-4.77	0.00021	PASS	
				10	-1.77	0.0014	PASS	
				20	1.92	0.00288	PASS	
		MCH	VN	30	-1.63	0.00146	PASS	
				40	-1.11	0.00167	PASS	
				50	-3.47	0.00073	PASS	
				-30	-1.84	0.00139	PASS	
				-20	-2.16	0.00126	PASS	
				-10	-0.98	0.00173	PASS	

					0	1.64	0.00276	PASS	
					10	-3.13	0.00088	PASS	
					20	2.14	0.00296	PASS	
					30	-1.48	0.00153	PASS	
					40	1.25	0.00261	PASS	
					50	-2.54	0.00111	PASS	
			HCH	VN	-30	0.63	0.00236	PASS	
					-20	0.62	0.00236	PASS	
					-10	1.15	0.00257	PASS	
					0	-1.8	0.00142	PASS	
					10	-1.2	0.00165	PASS	
					20	-3.39	0.0008	PASS	
					30	-4.59	0.00033	PASS	
					40	-1.8	0.00142	PASS	
					50	-4.87	0.00022	PASS	
		LCH	VN	-30	0.13	0.00285	PASS		
				-20	8.25	0.0061	PASS		
				-10	1.59	0.00344	PASS		
				0	1.97	0.00359	PASS		
				10	0.36	0.00295	PASS		
				20	-1.22	0.00232	PASS		
				30	-5.03	0.0008	PASS		
				40	-2.91	0.00164	PASS		
				50	-0.14	0.00275	PASS		
				MCH	VN	-30	-3.1	0.00157	PASS
						-20	-1.48	0.00221	PASS
						-10	-4.04	0.0012	PASS
						0	-5.87	0.00048	PASS
						10	-2.71	0.00173	PASS
						20	-3.67	0.00135	PASS
		30	-1.72			0.00212	PASS		
		40	-3.68			0.00135	PASS		
		50	-3.23			0.00152	PASS		
		HCH	VN	-30	-1.7	0.00213	PASS		
				-20	-3.97	0.00124	PASS		
				-10	-4.73	0.00095	PASS		
				0	-5.47	0.00066	PASS		
				10	-3.87	0.00128	PASS		
				20	-4.69	0.00096	PASS		
				30	-2.91	0.00166	PASS		
40	-2.77			0.00171	PASS				

				50	-1.65	0.00215	PASS	
		15	LCH	VN	-30	5.69	0.00507	PASS
					-20	2.27	0.00371	PASS
					-10	-0.32	0.00267	PASS
					0	-0.67	0.00254	PASS
					10	-1.51	0.0022	PASS
					20	-0.21	0.00272	PASS
					30	-3.04	0.00159	PASS
					40	-3.37	0.00146	PASS
					50	-4.23	0.00112	PASS
		15	MCH	VN	-30	-3.03	0.0016	PASS
					-20	-4.03	0.00121	PASS
					-10	-1.5	0.00221	PASS
					0	-4.79	0.00091	PASS
					10	-3.5	0.00142	PASS
					20	-4.36	0.00108	PASS
					30	-3.73	0.00133	PASS
					40	-7.25	-6E-05	PASS
					50	-5.8	0.00051	PASS
		15	HCH	VN	-30	-0.17	0.00273	PASS
					-20	-2.28	0.0019	PASS
					-10	-4.34	0.0011	PASS
					0	-2.81	0.0017	PASS
					10	-3.77	0.00132	PASS
					20	-3.03	0.00161	PASS
					30	-3.43	0.00145	PASS
					40	-3.27	0.00152	PASS
					50	-4.46	0.00105	PASS
		20	LCH	VN	-30	-9.51	-0.00099	PASS
					-20	-7.4	-0.00015	PASS
					-10	-8.65	-0.00064	PASS
					0	-4.73	0.00092	PASS
					10	-8.66	-0.00065	PASS
					20	-6.2	0.00033	PASS
					30	-4.21	0.00112	PASS
					40	-8.39	-0.00054	PASS
					50	-3.94	0.00123	PASS
		20	MCH	VN	-30	-5.27	0.00072	PASS
					-20	-2.68	0.00174	PASS
					-10	-3.3	0.0015	PASS
					0	-2	0.00201	PASS

					10	-5.33	0.00069	PASS
					20	-4.71	0.00094	PASS
					30	-3.03	0.0016	PASS
					40	-2.13	0.00196	PASS
					50	-1.48	0.00221	PASS
			HCH	VN	-30	-3.36	0.00148	PASS
					-20	-2.45	0.00184	PASS
					-10	-2.4	0.00186	PASS
					0	-3.43	0.00145	PASS
					10	-5.19	0.00077	PASS
					20	-1.78	0.0021	PASS
					30	-3.64	0.00137	PASS
					40	-3.04	0.00161	PASS
					50	-3.41	0.00146	PASS

END