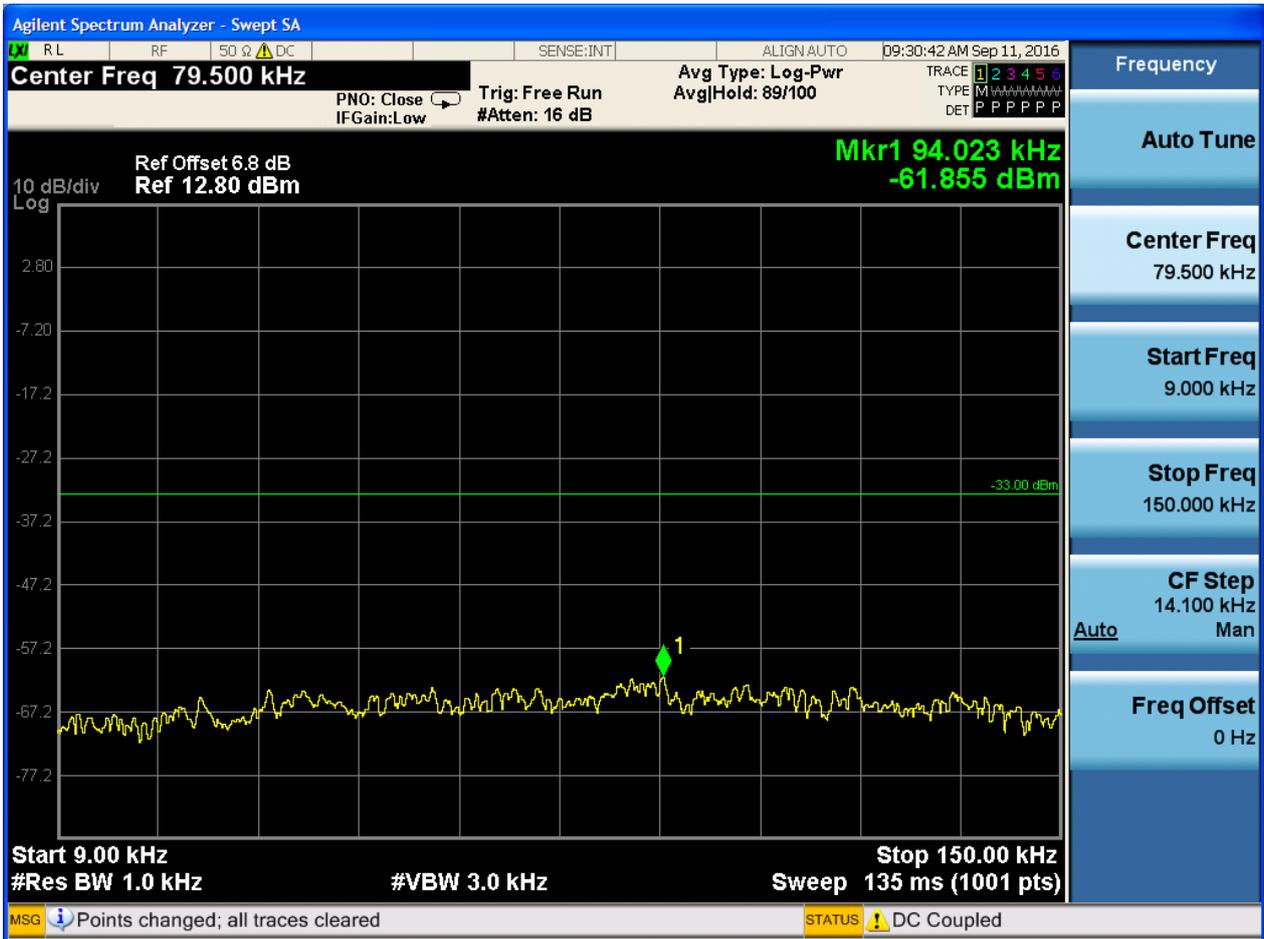




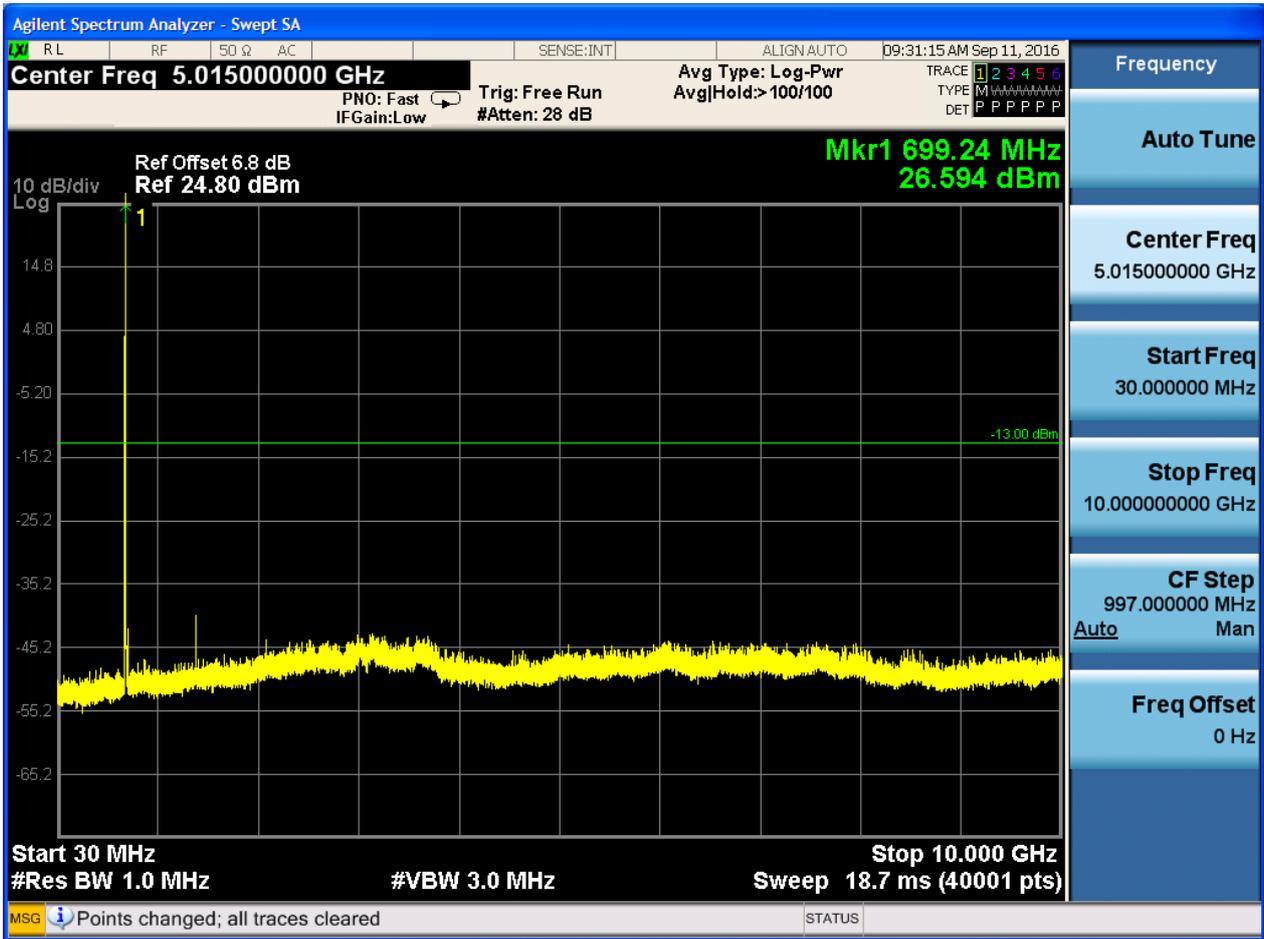
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



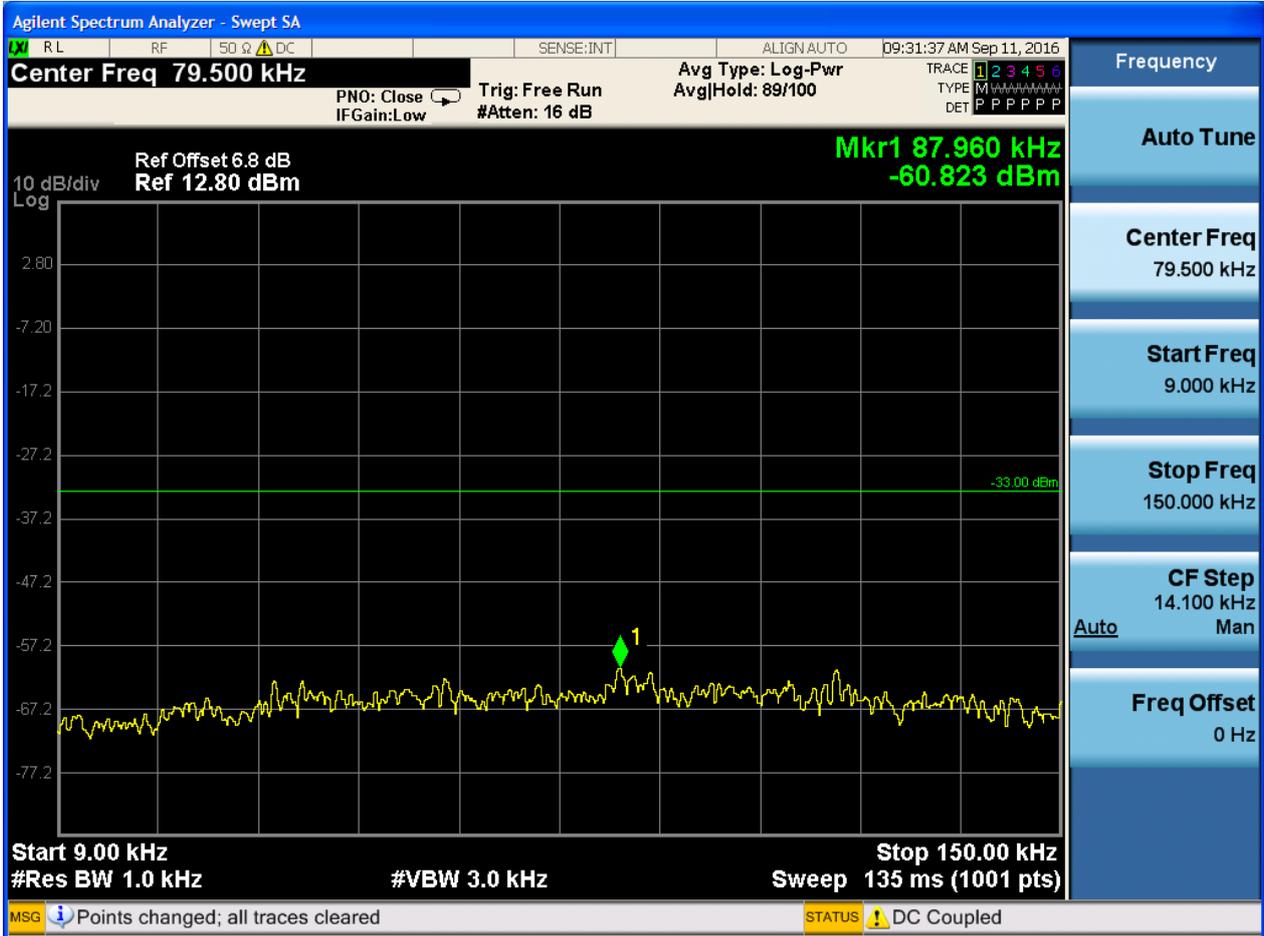


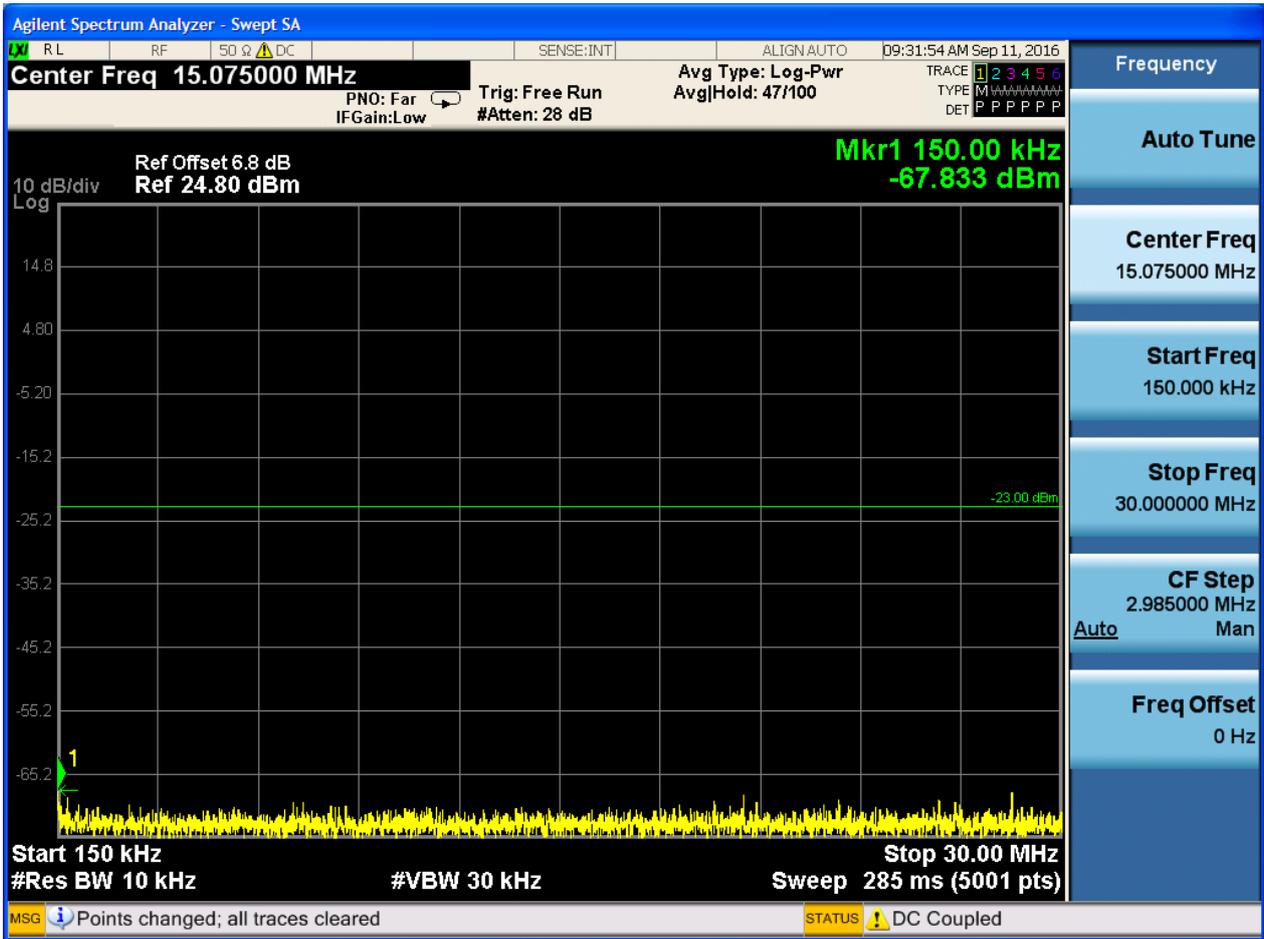


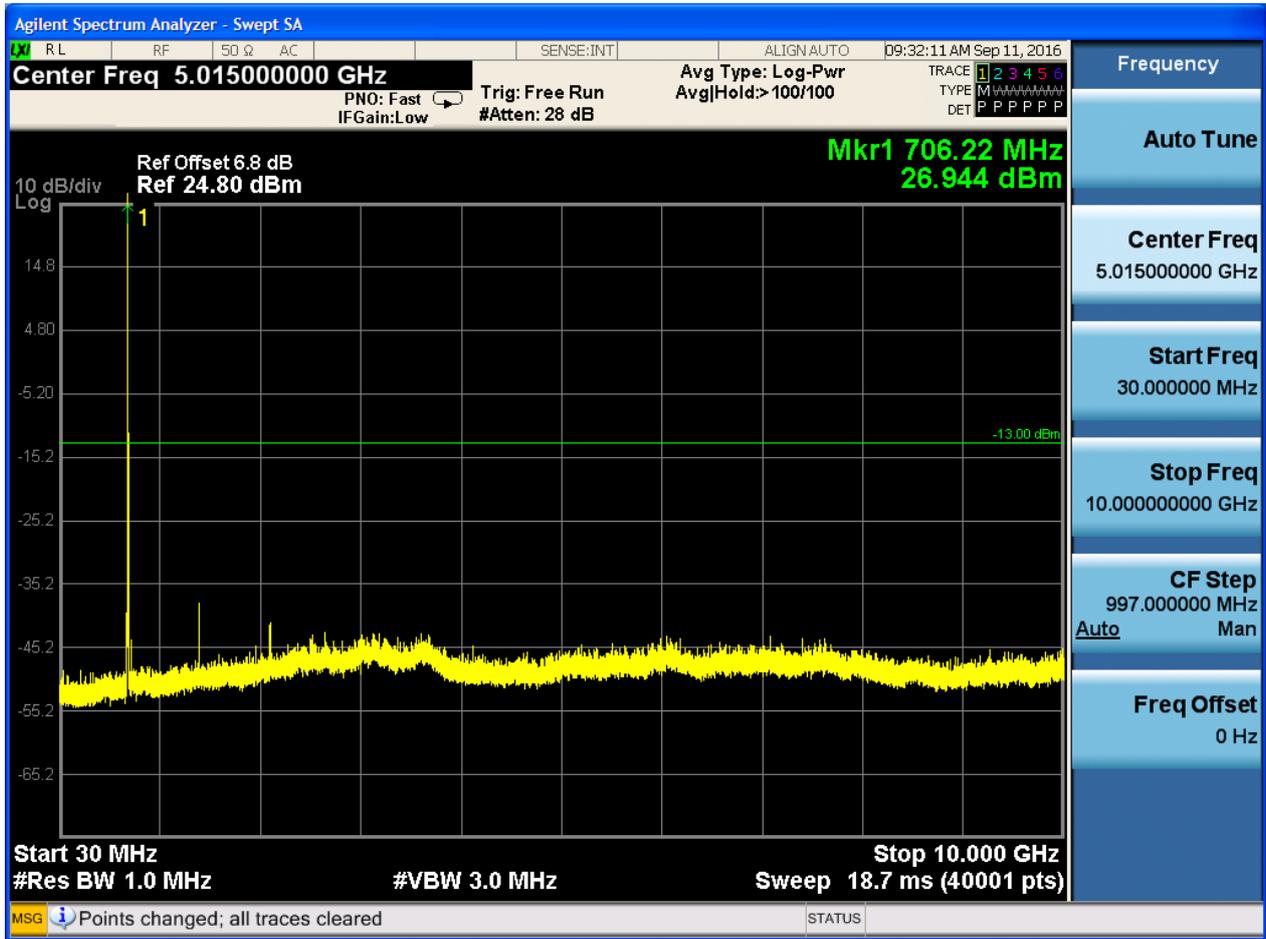


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



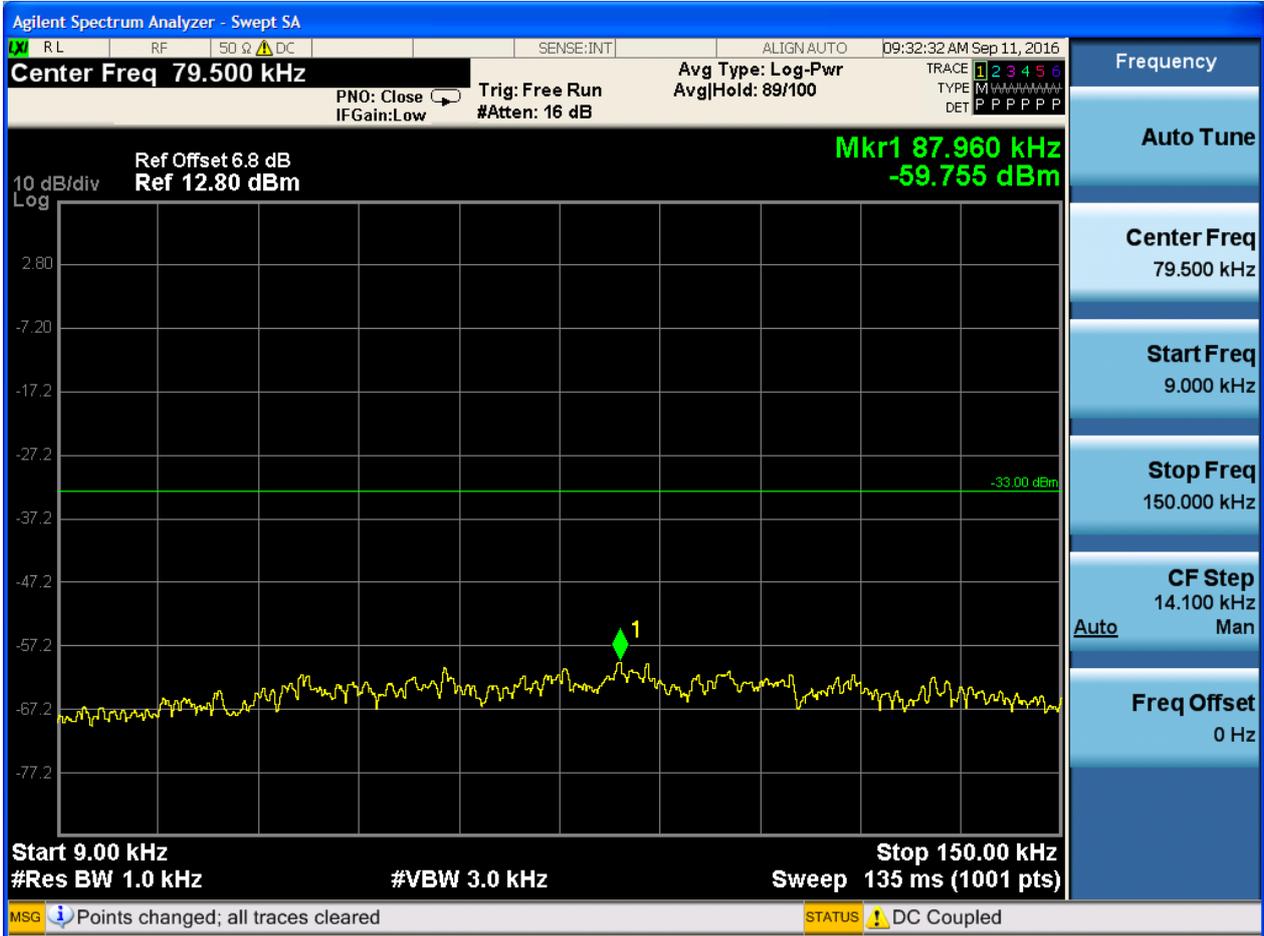




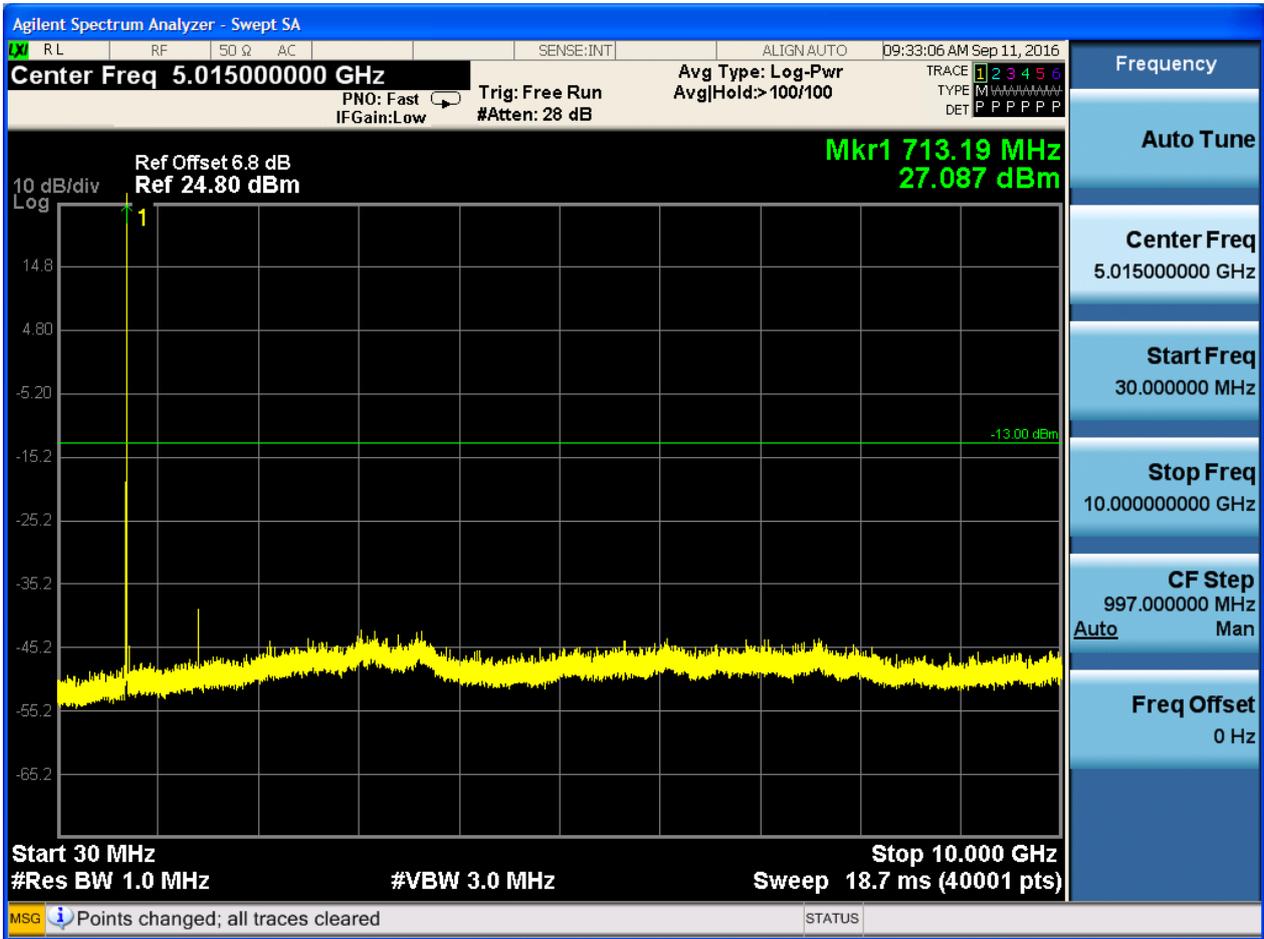


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





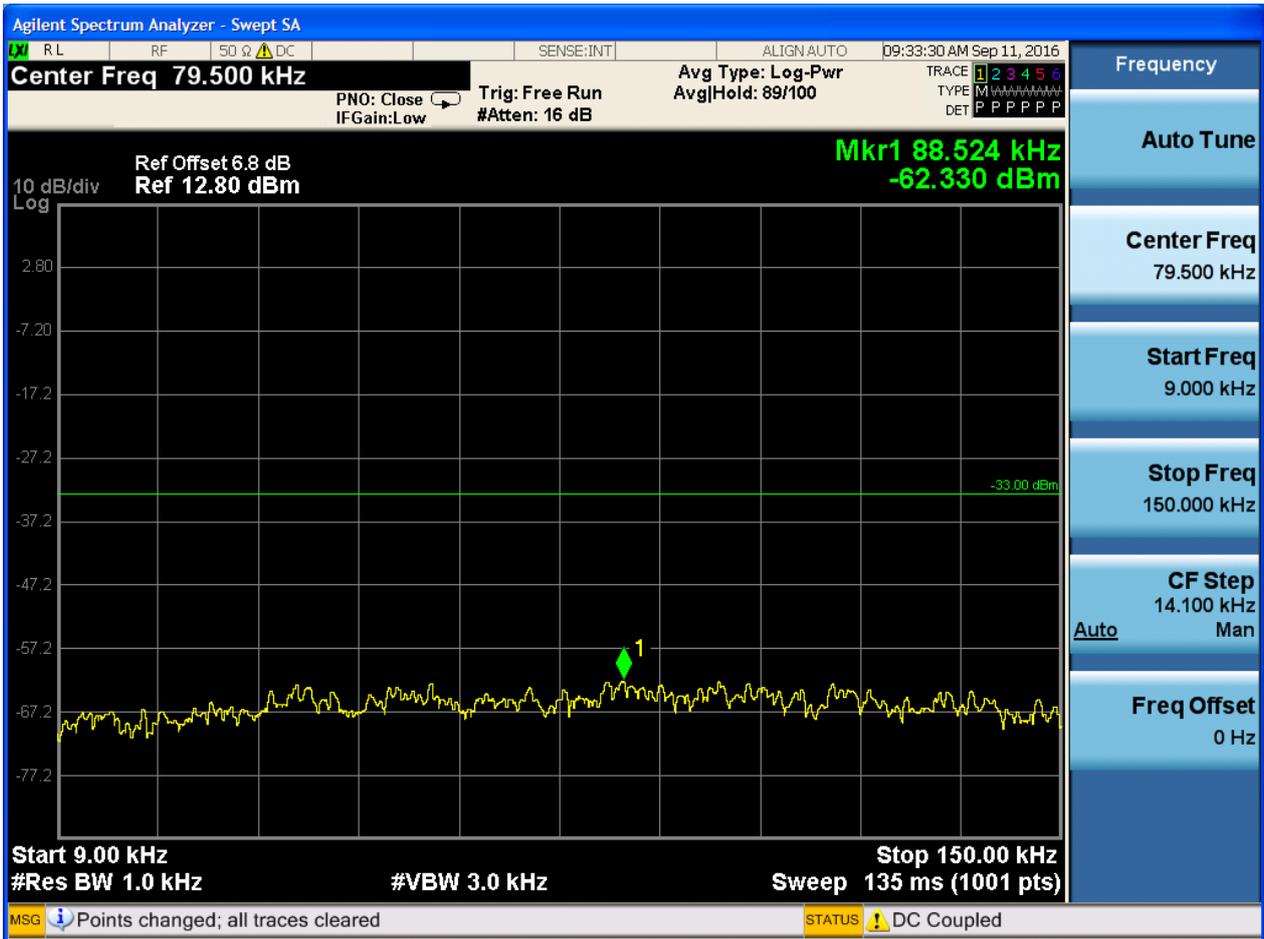


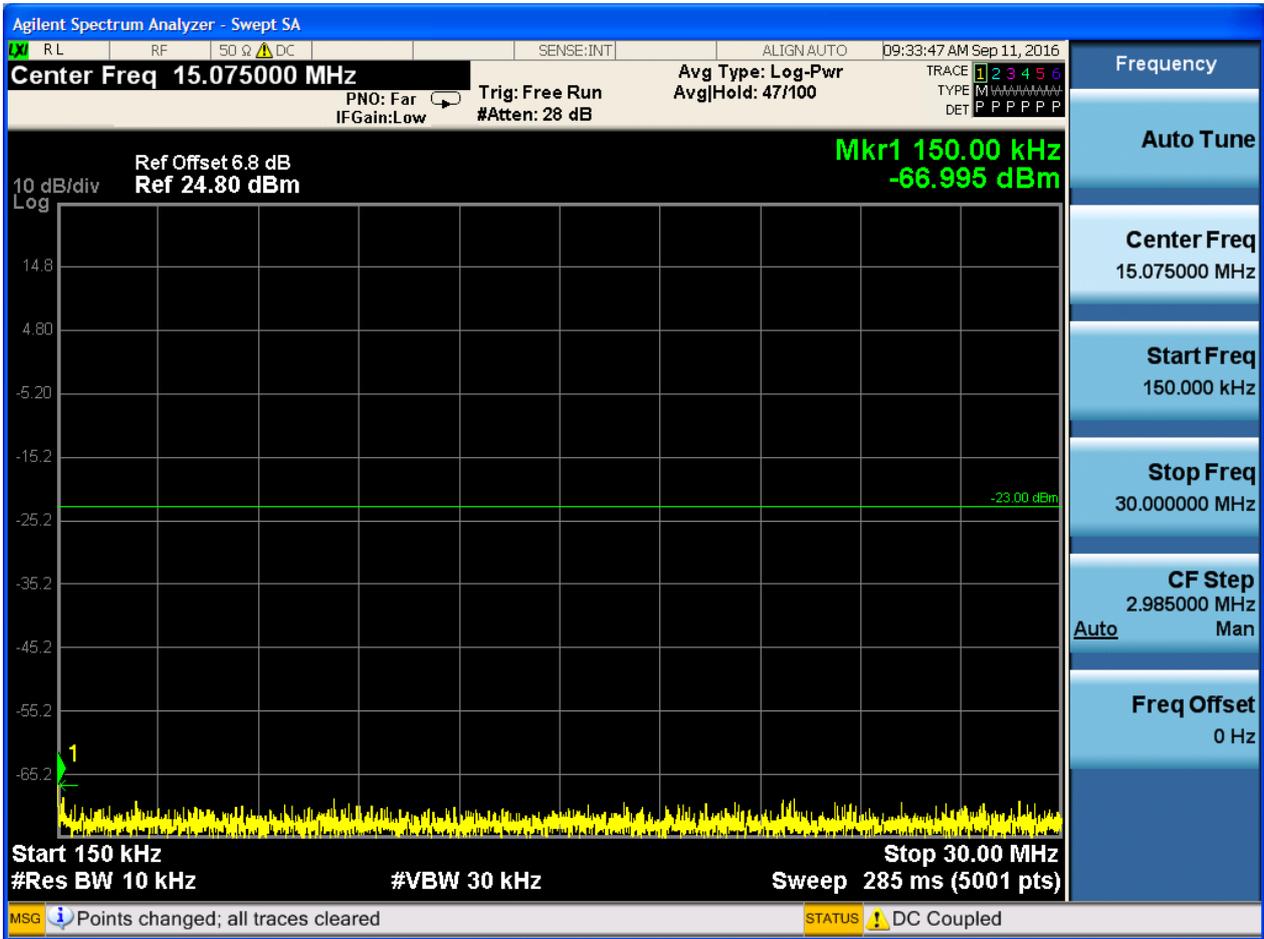


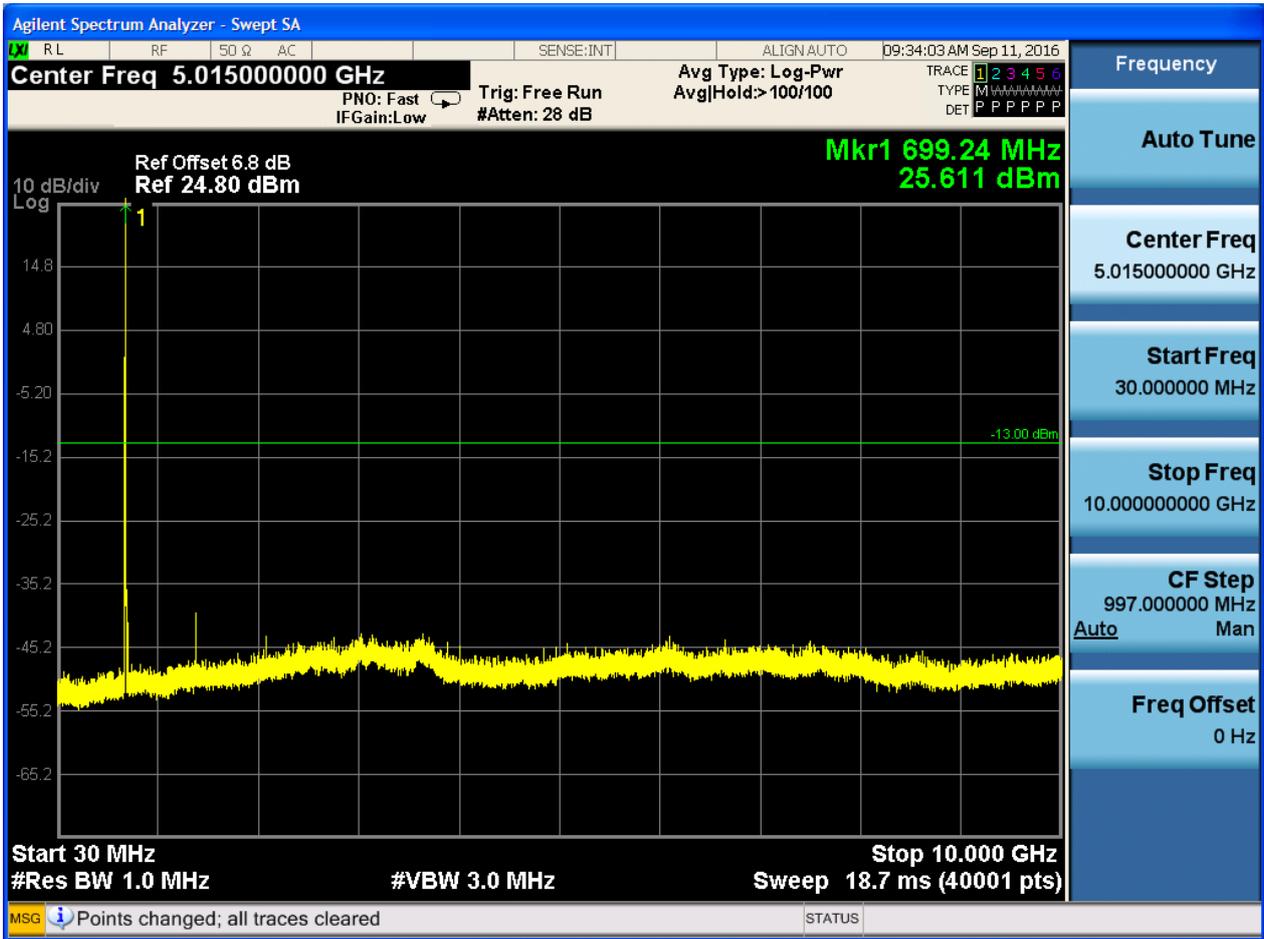
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



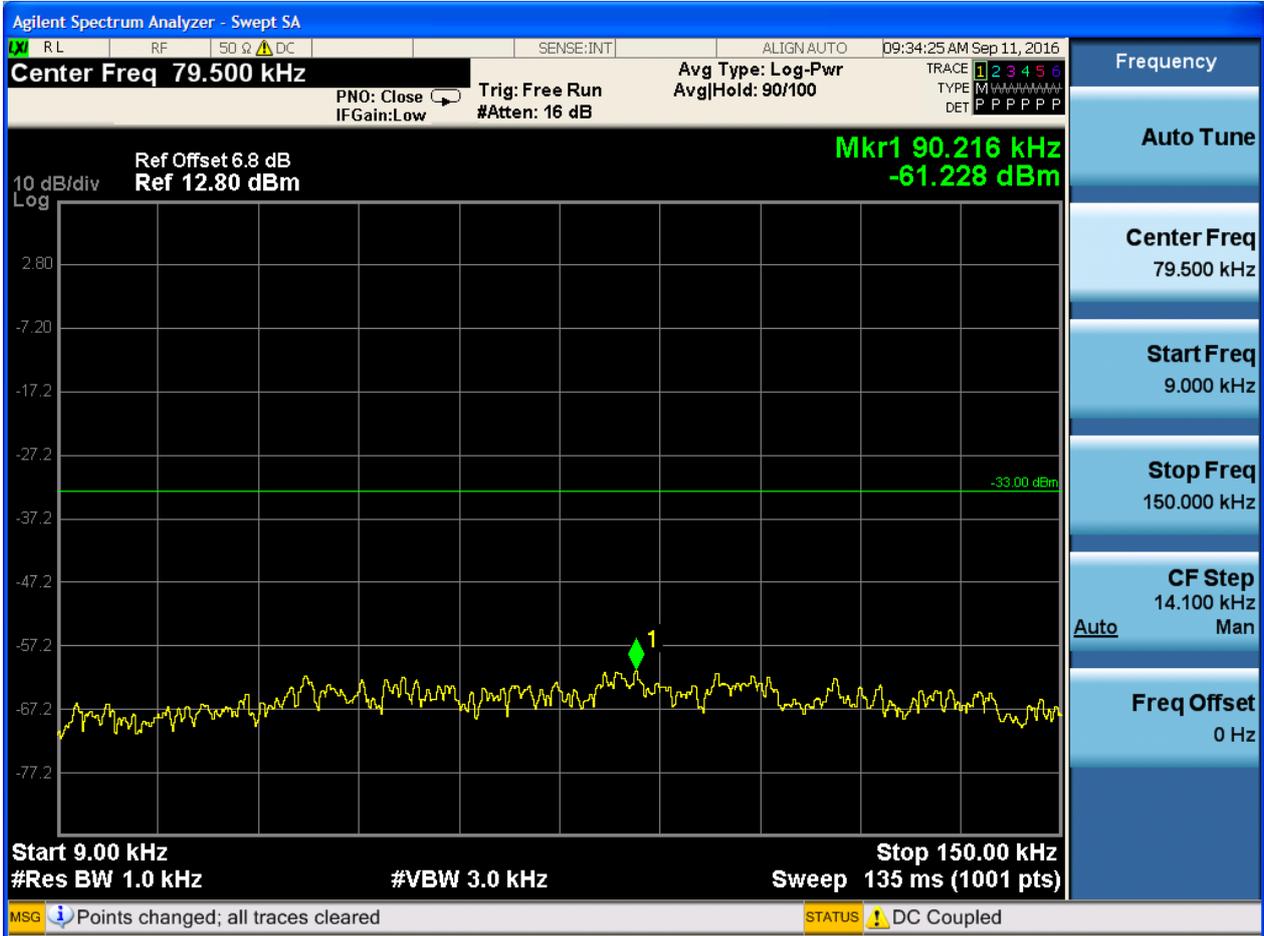


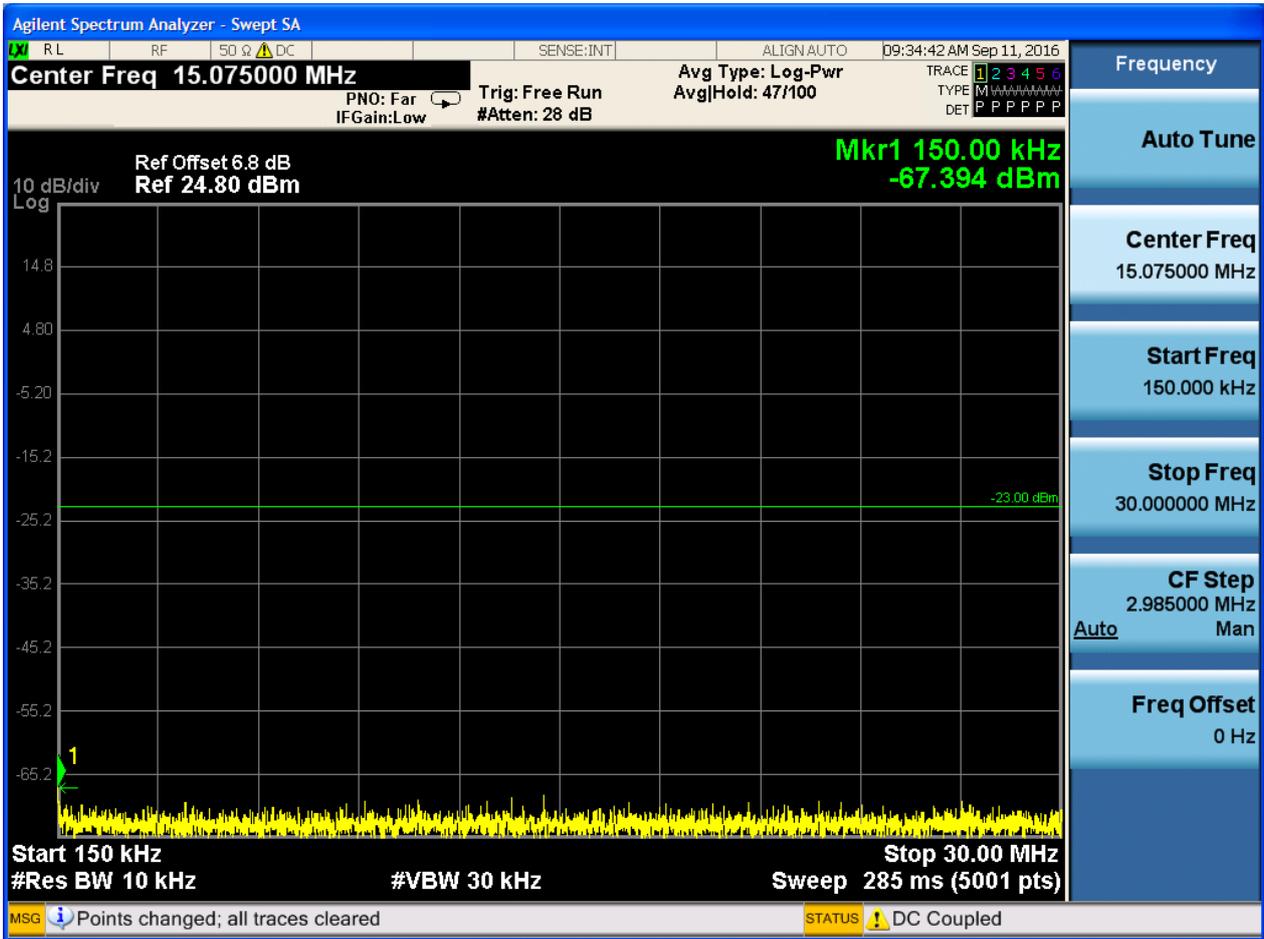


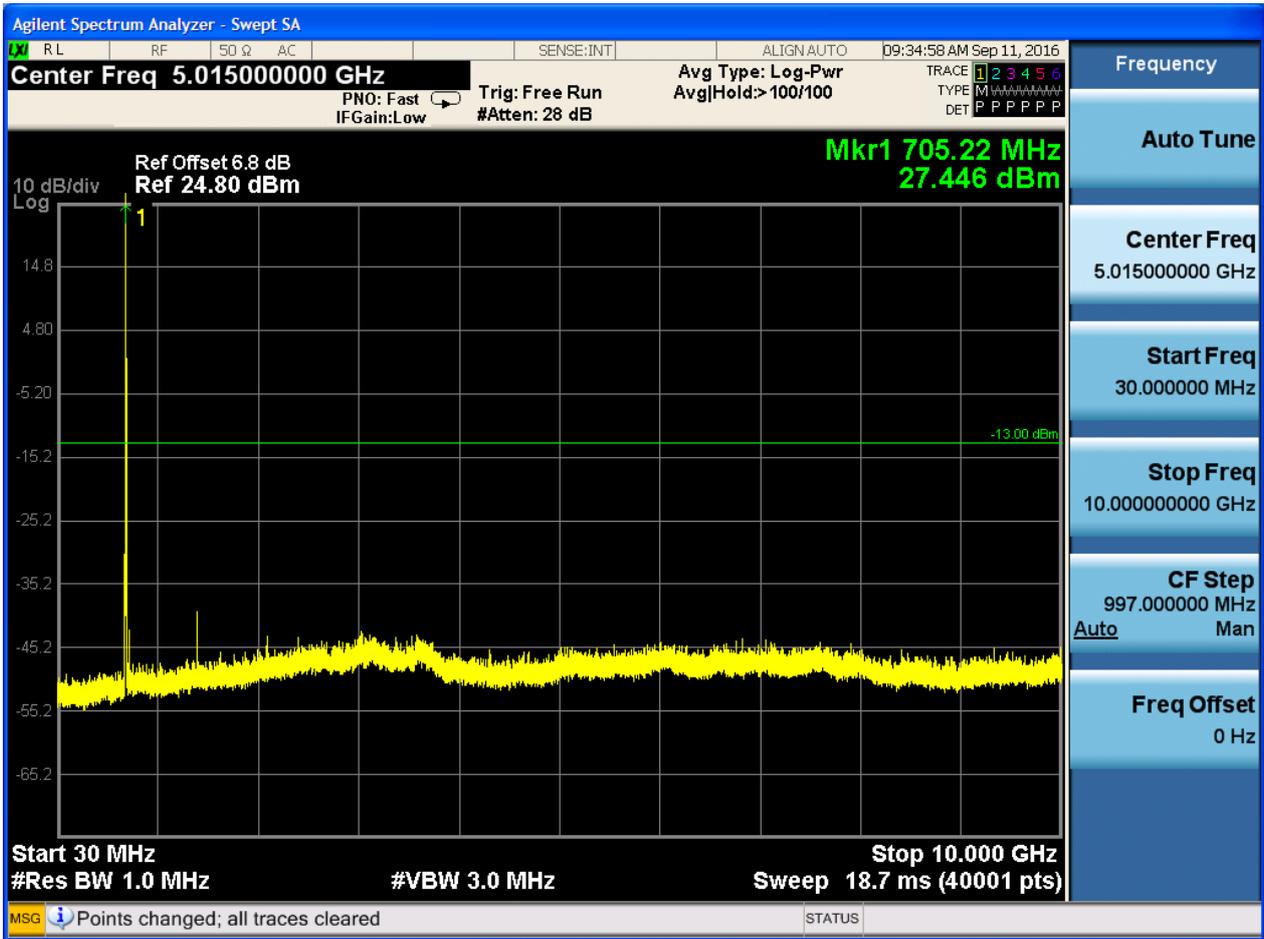


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



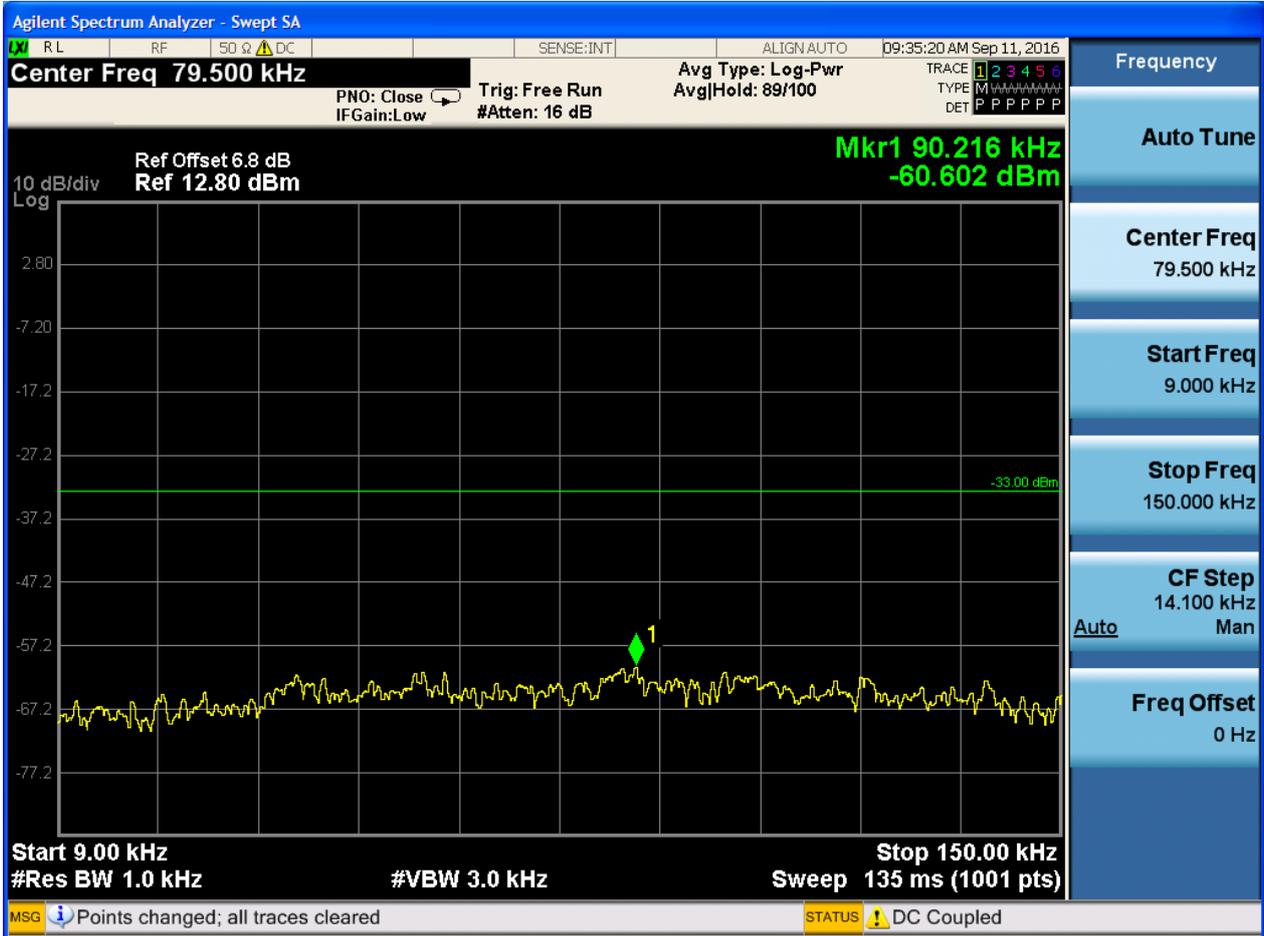


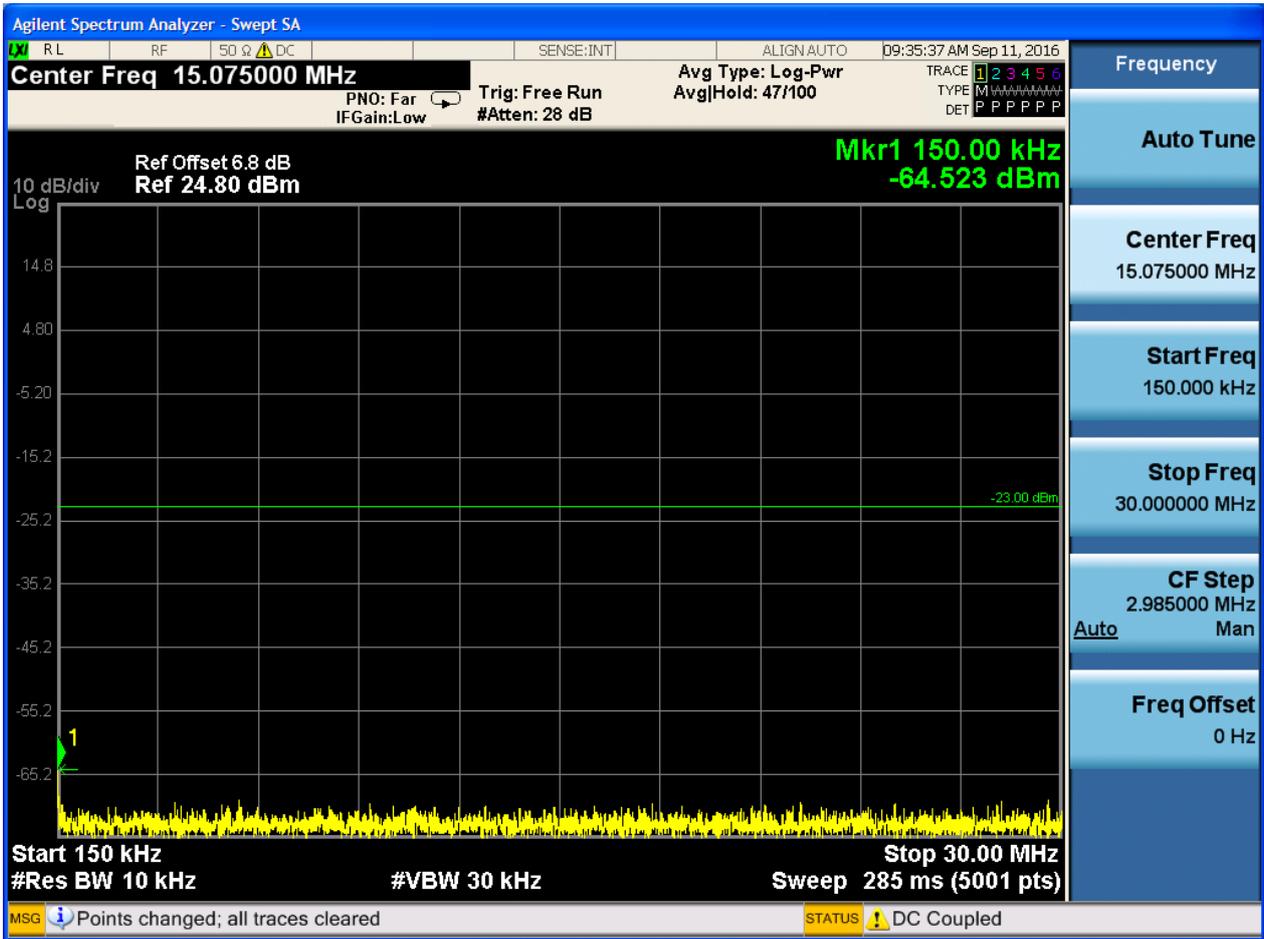




6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



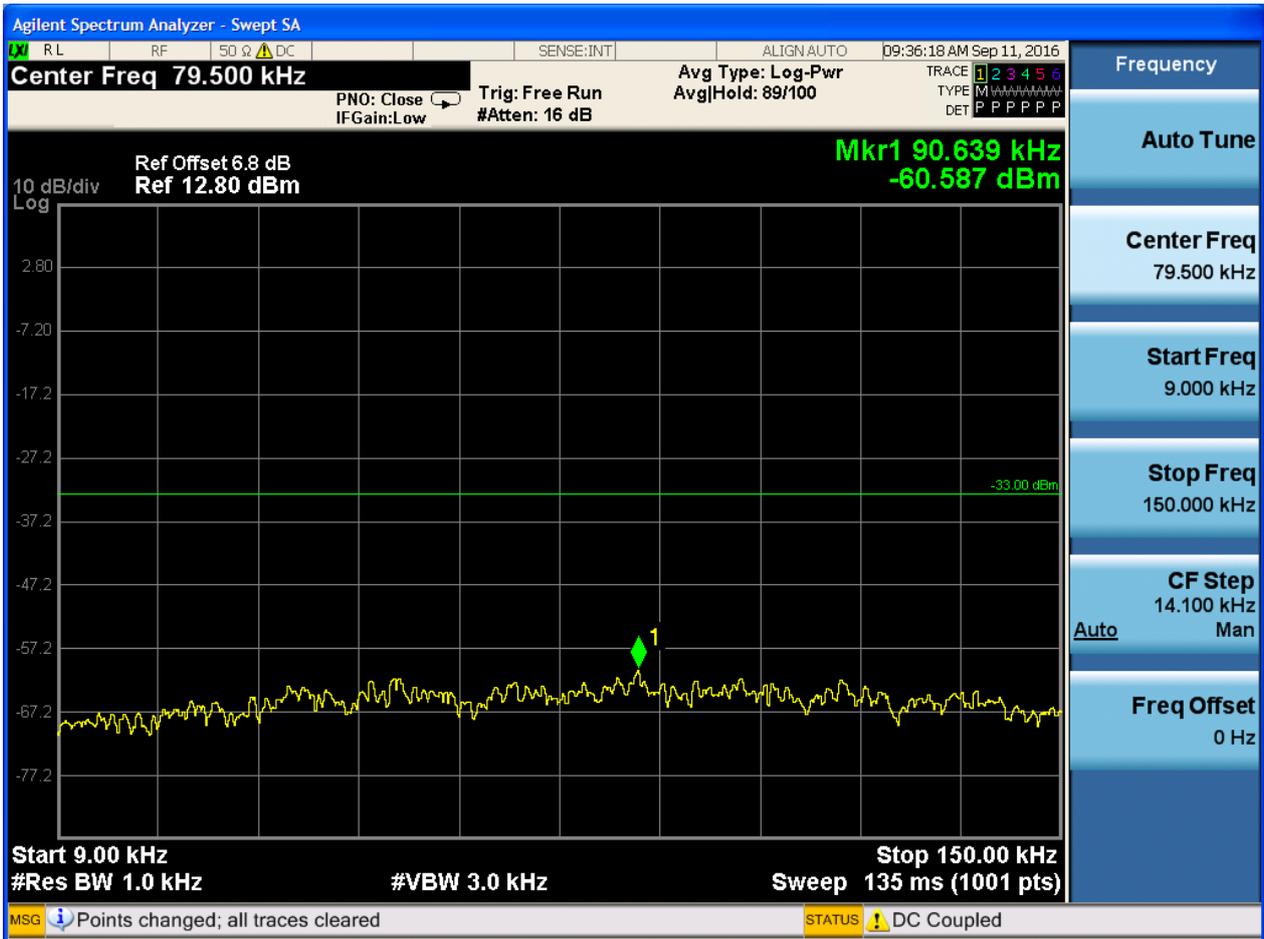




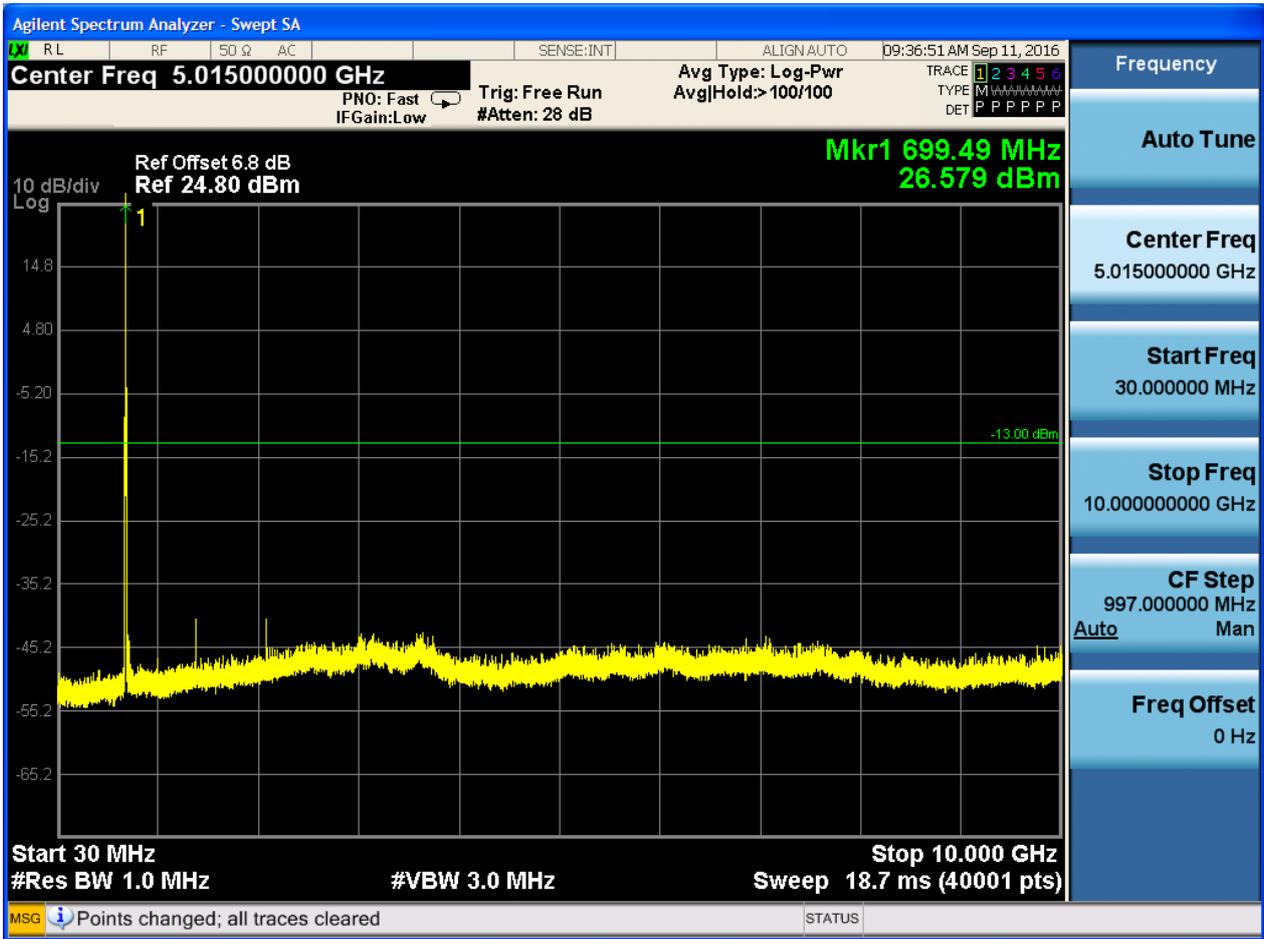
6.1.1.1.4 Test Bandwidth = 10

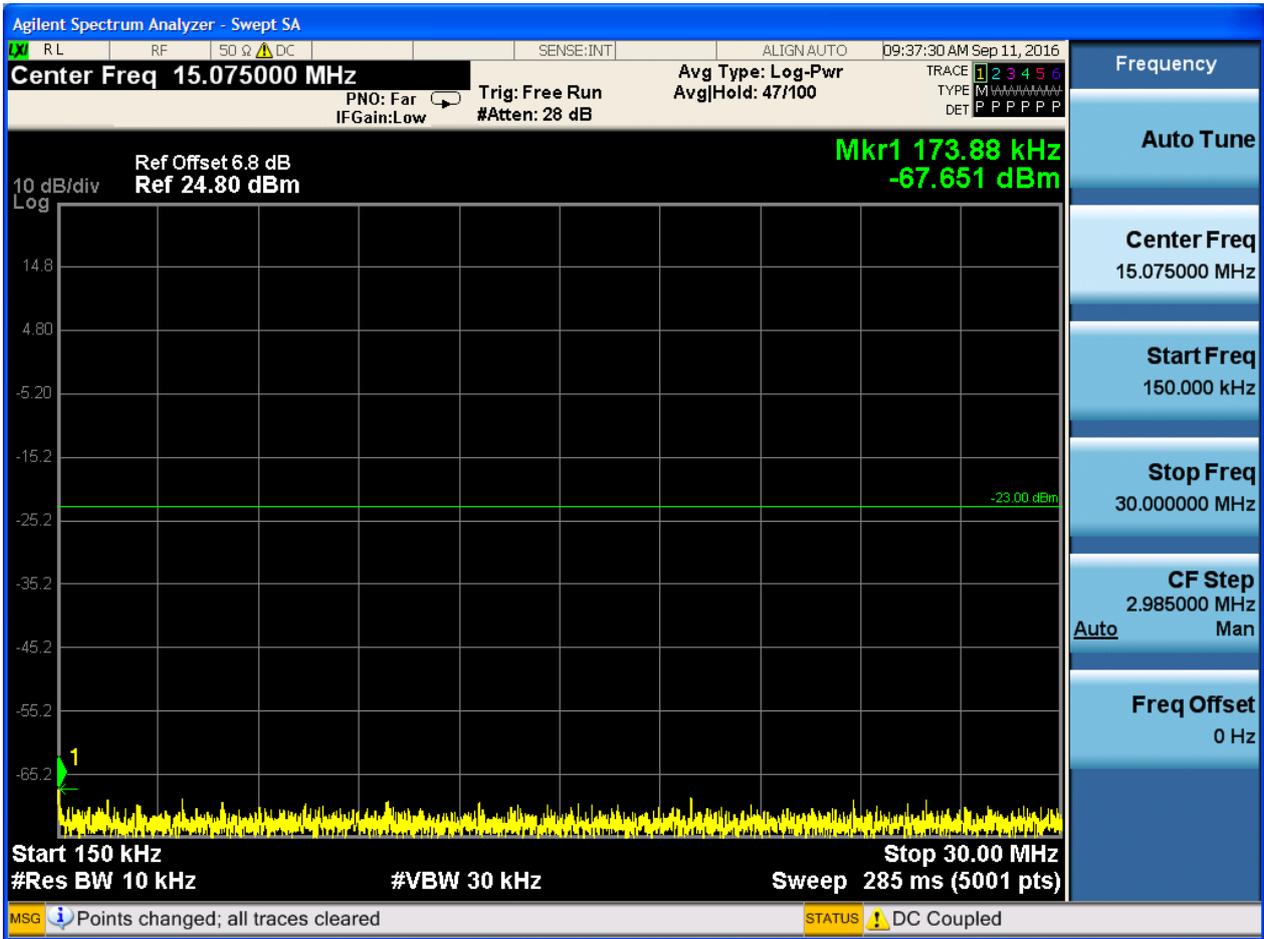
6.1.1.1.4.1 Test Channel = LCH

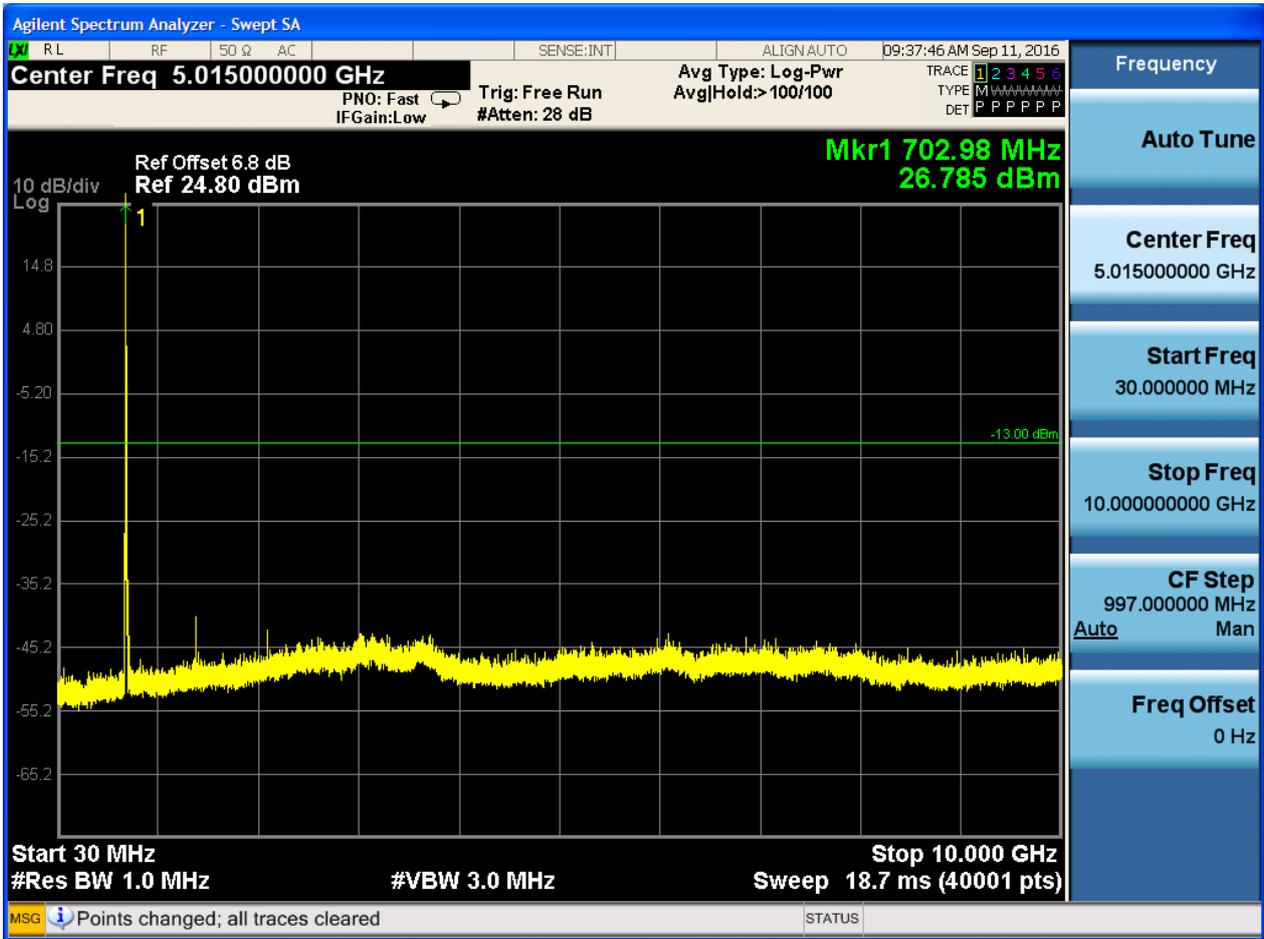
6.1.1.1.4.1.1 Test RB = RB1#0







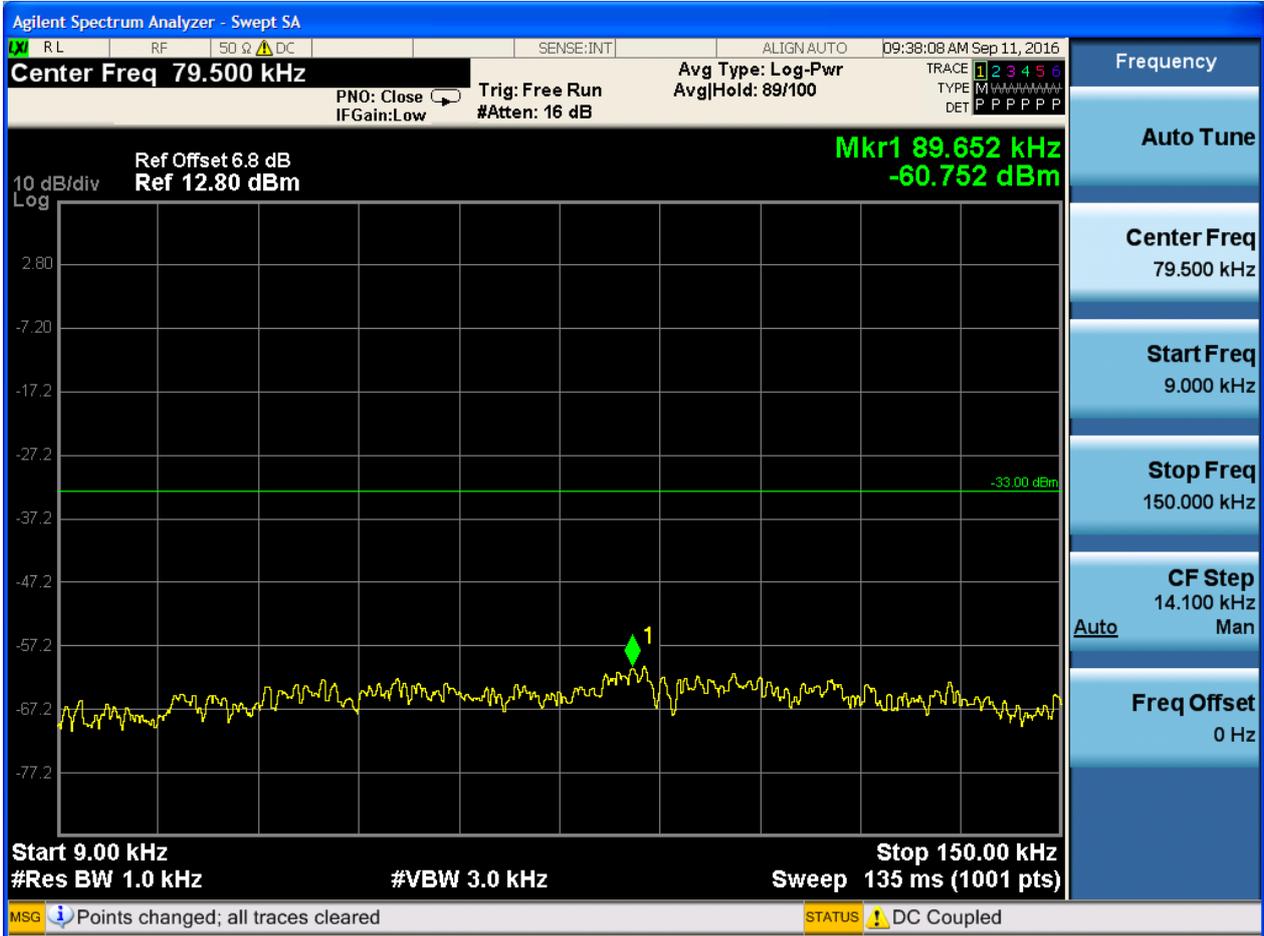




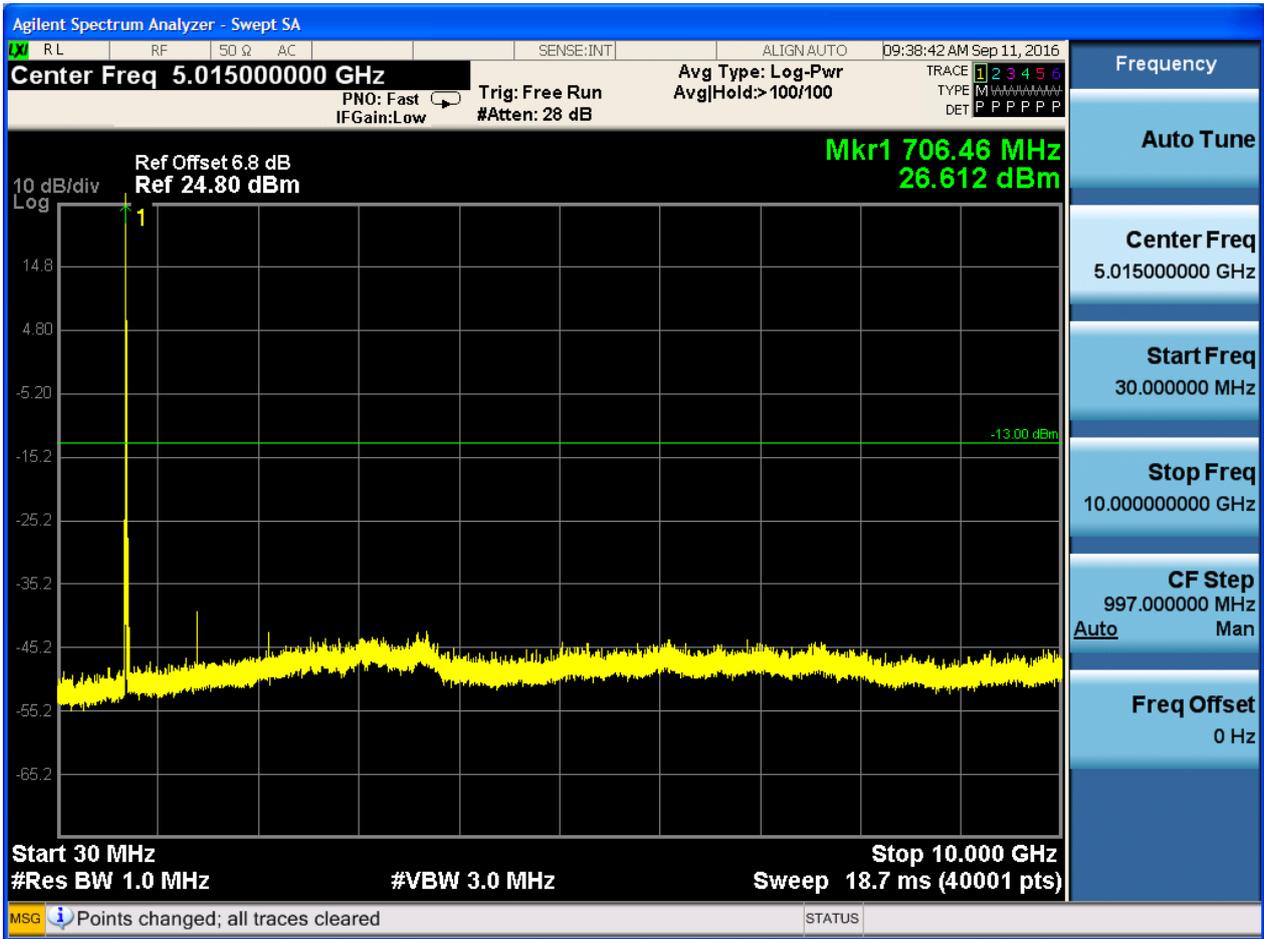


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







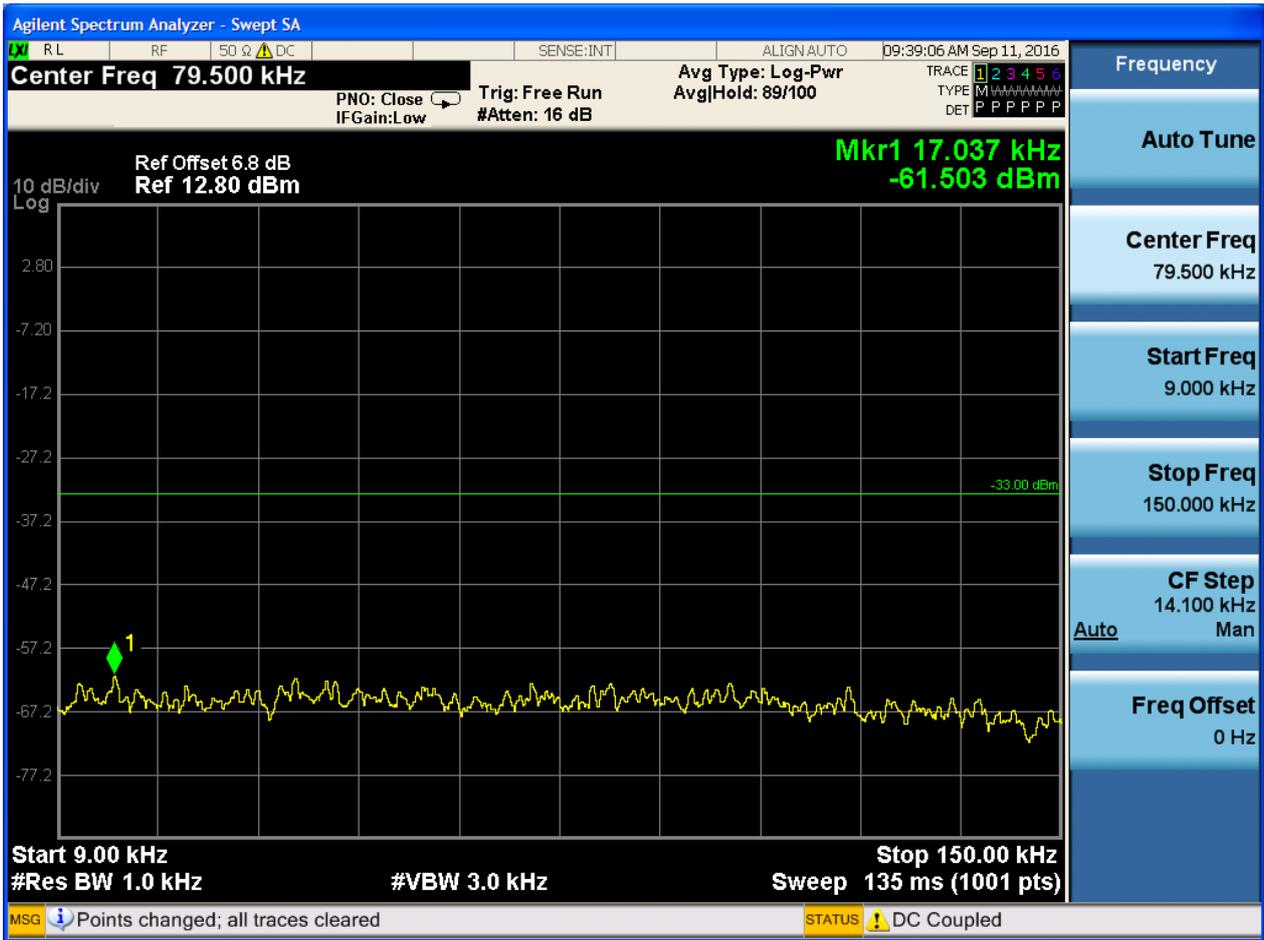


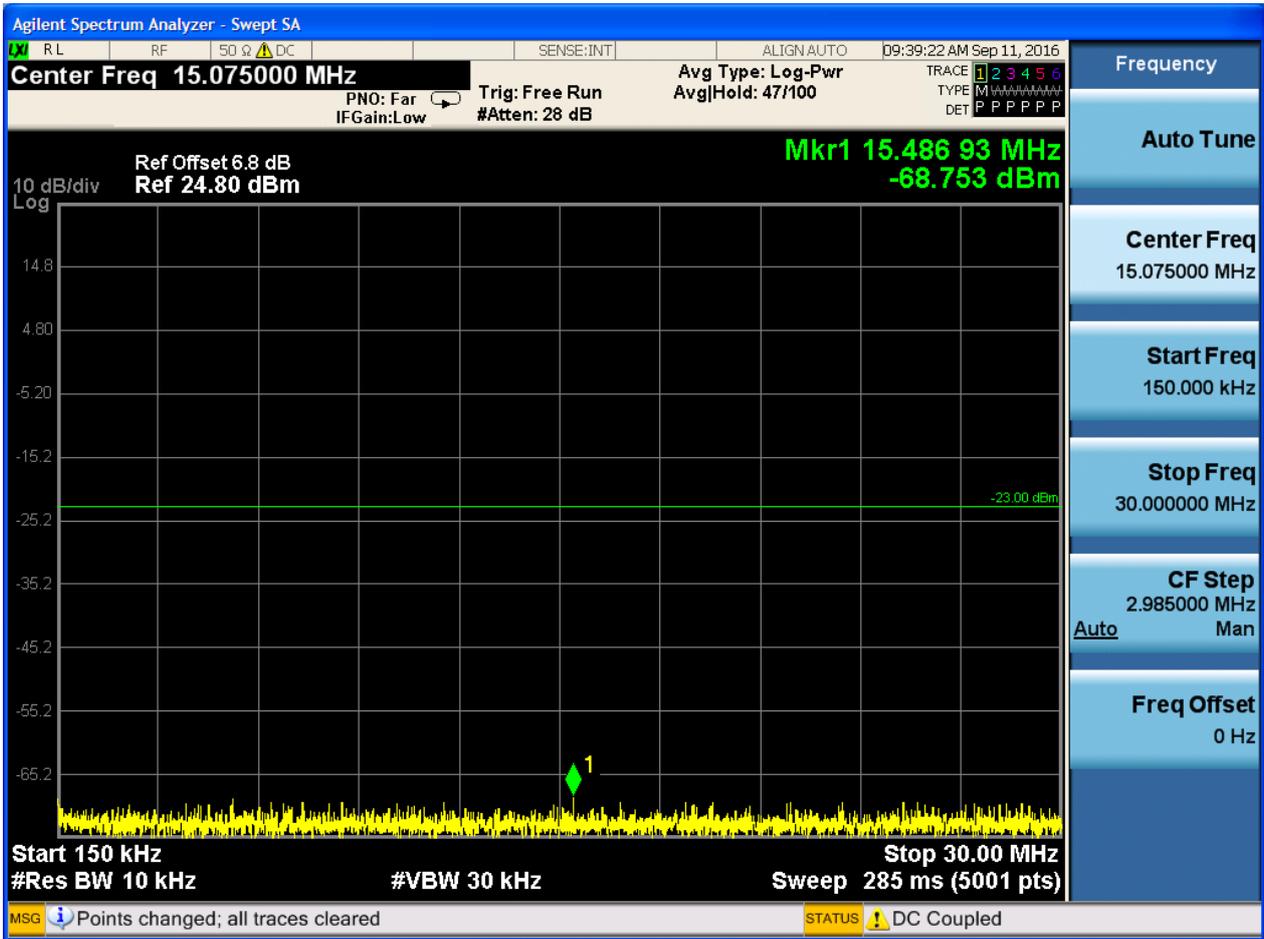
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

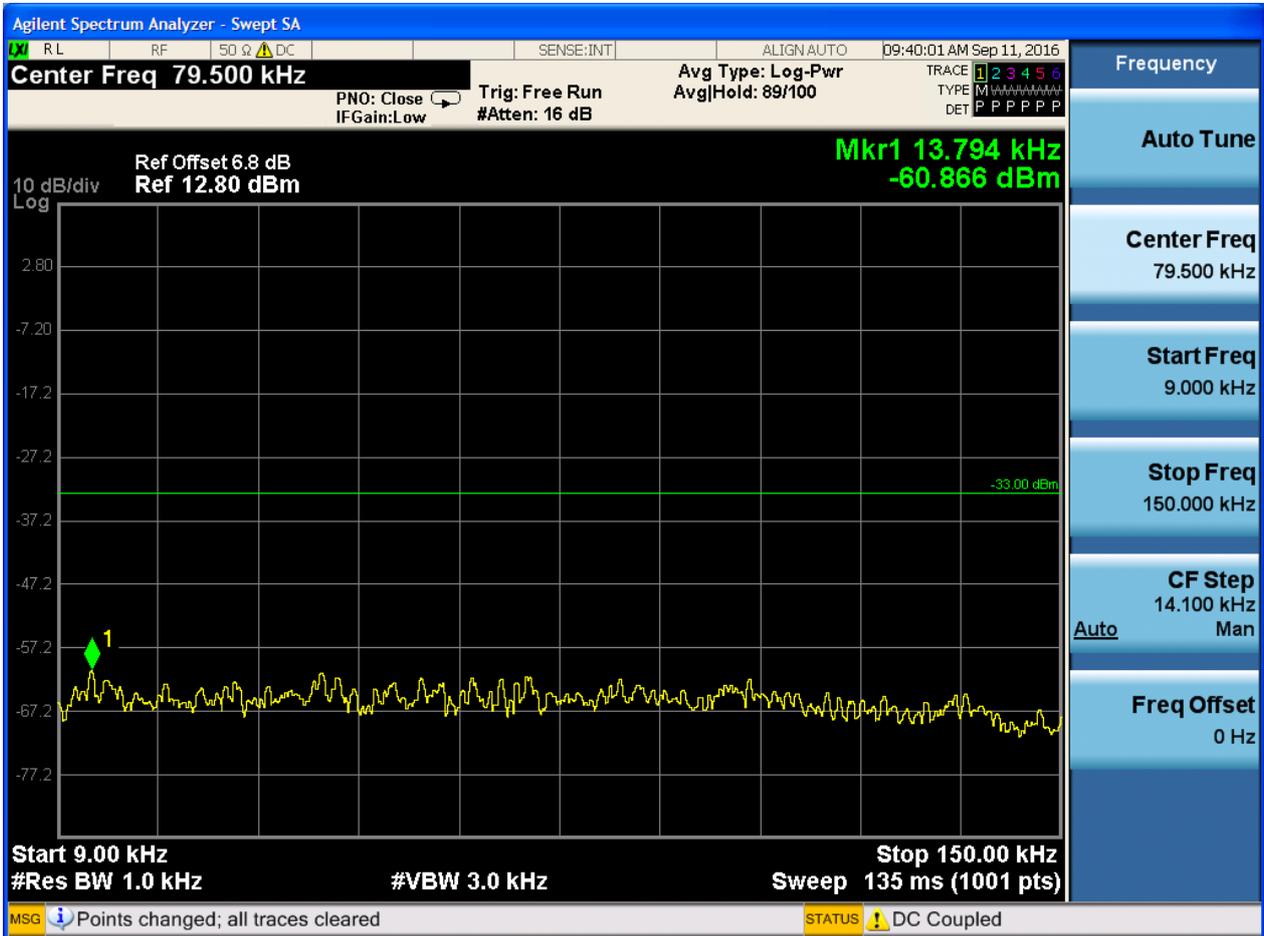


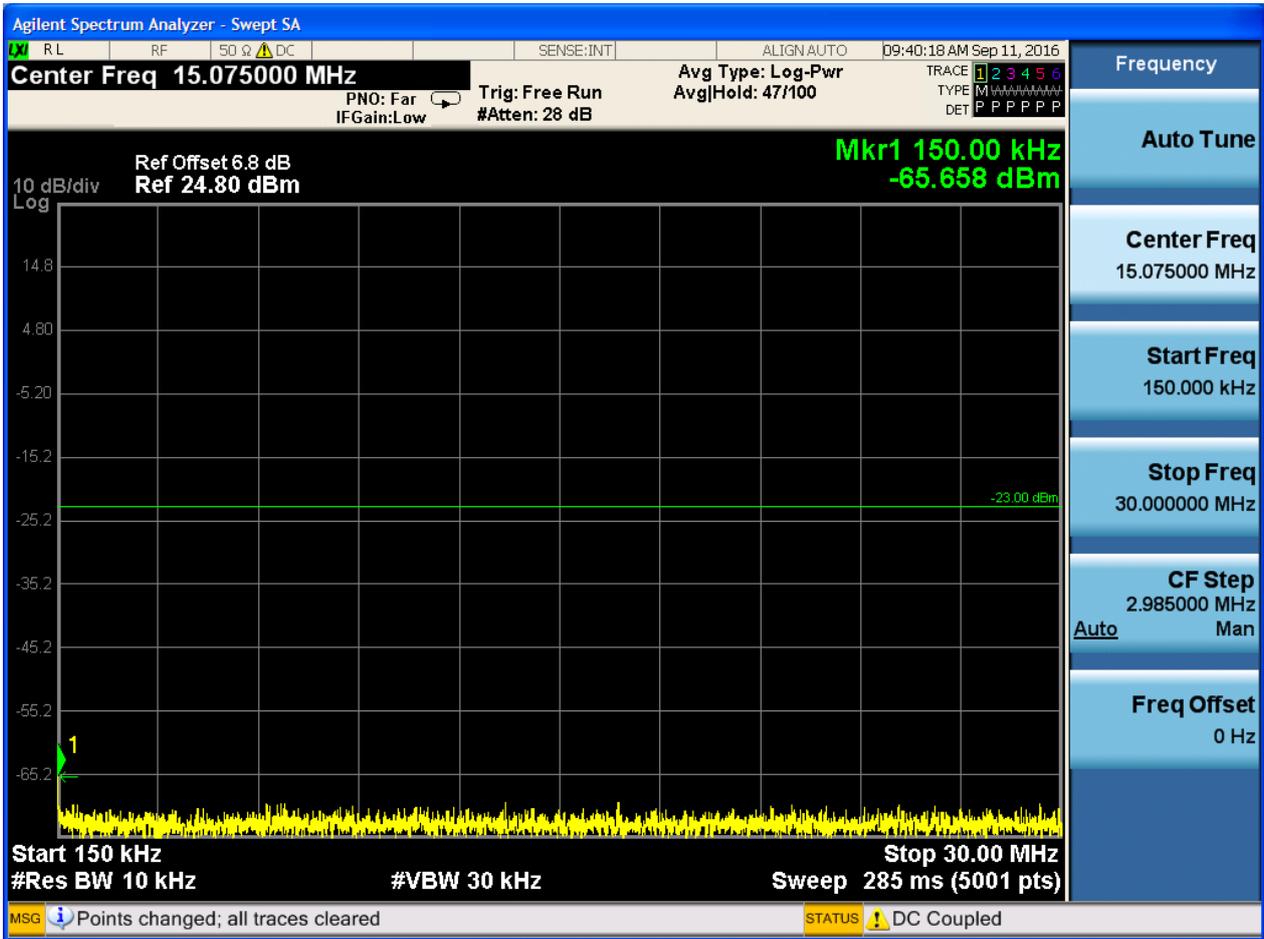


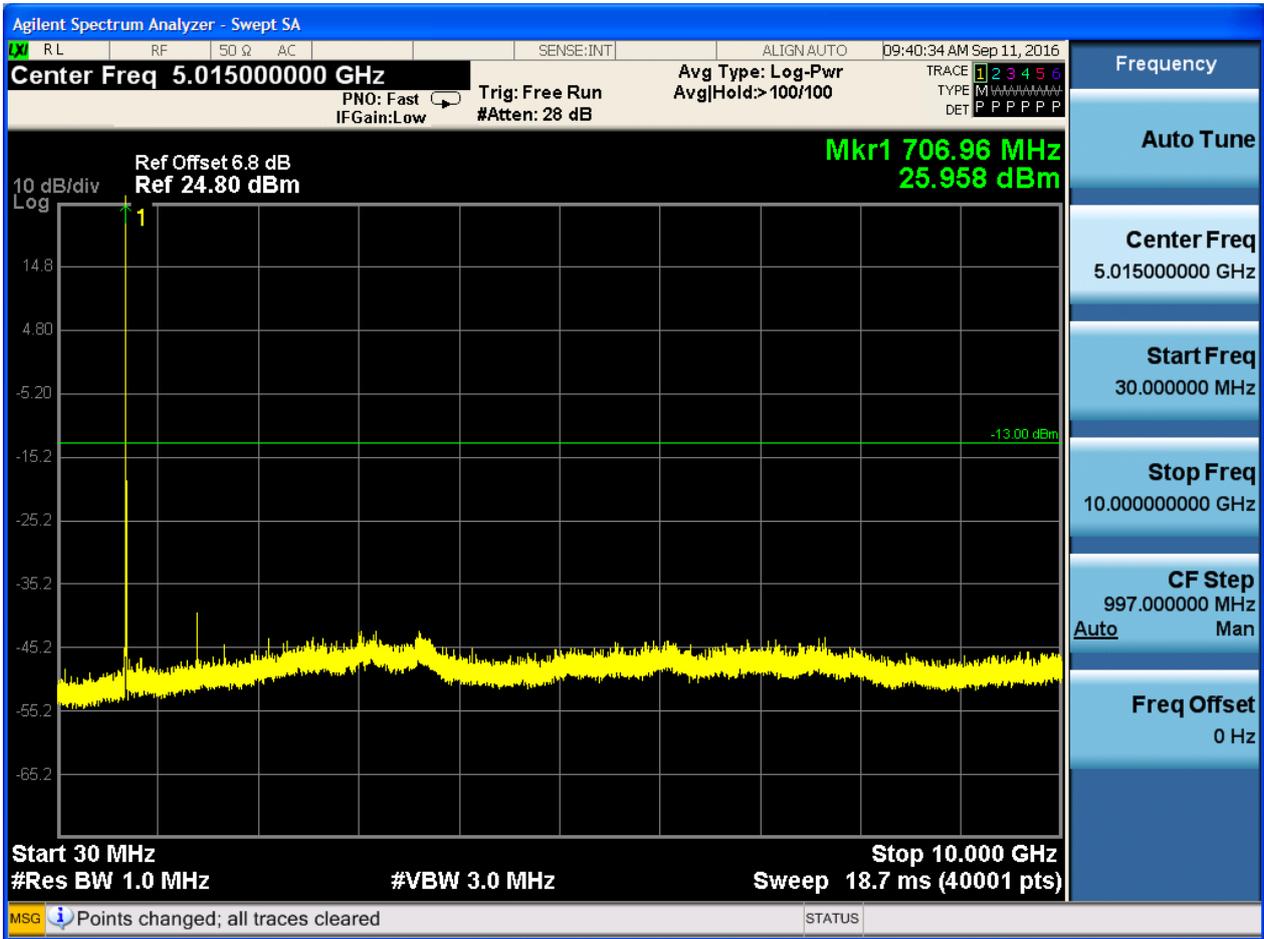


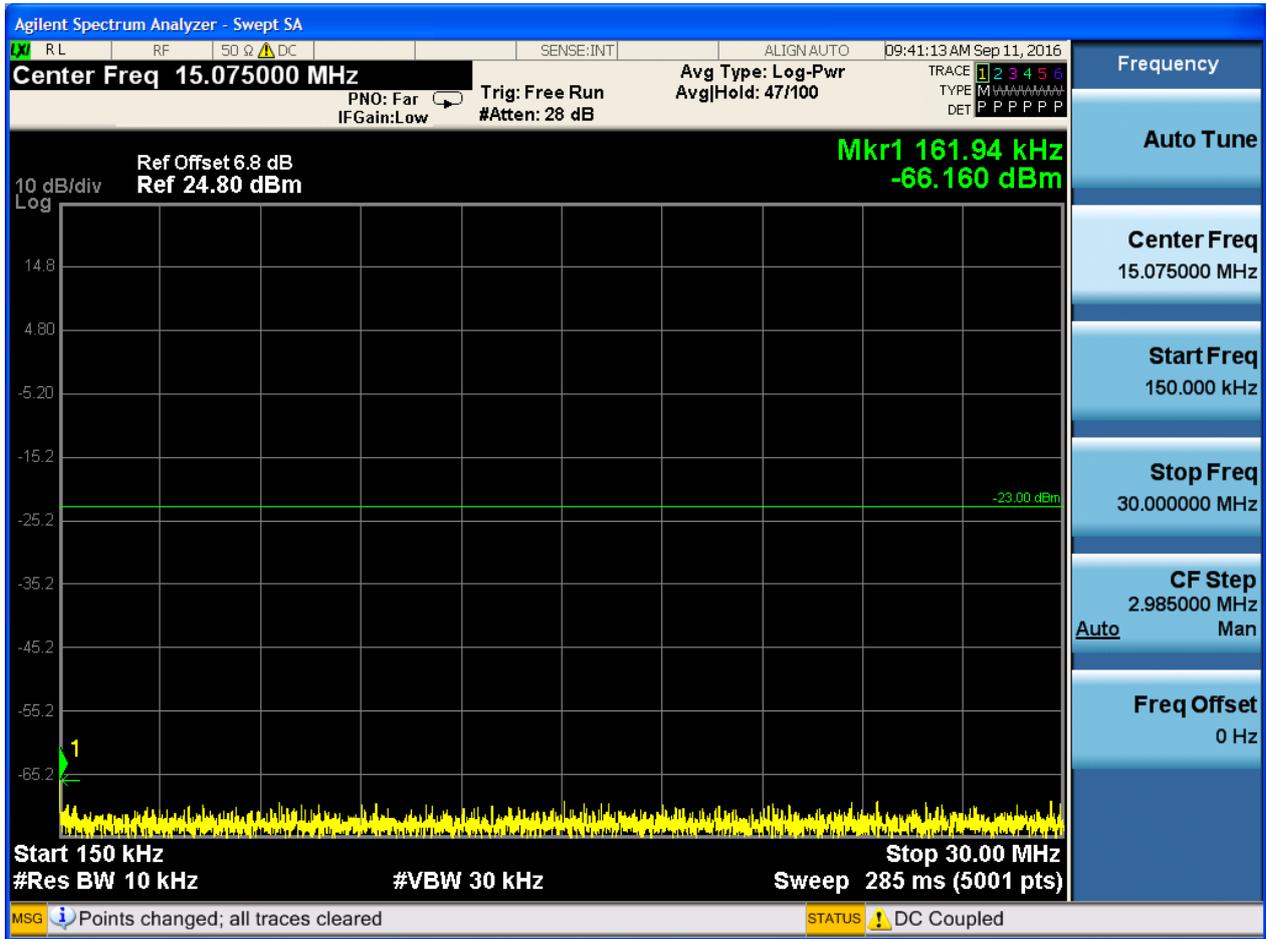
6.1.1.2.1.2 Test Channel = MCH

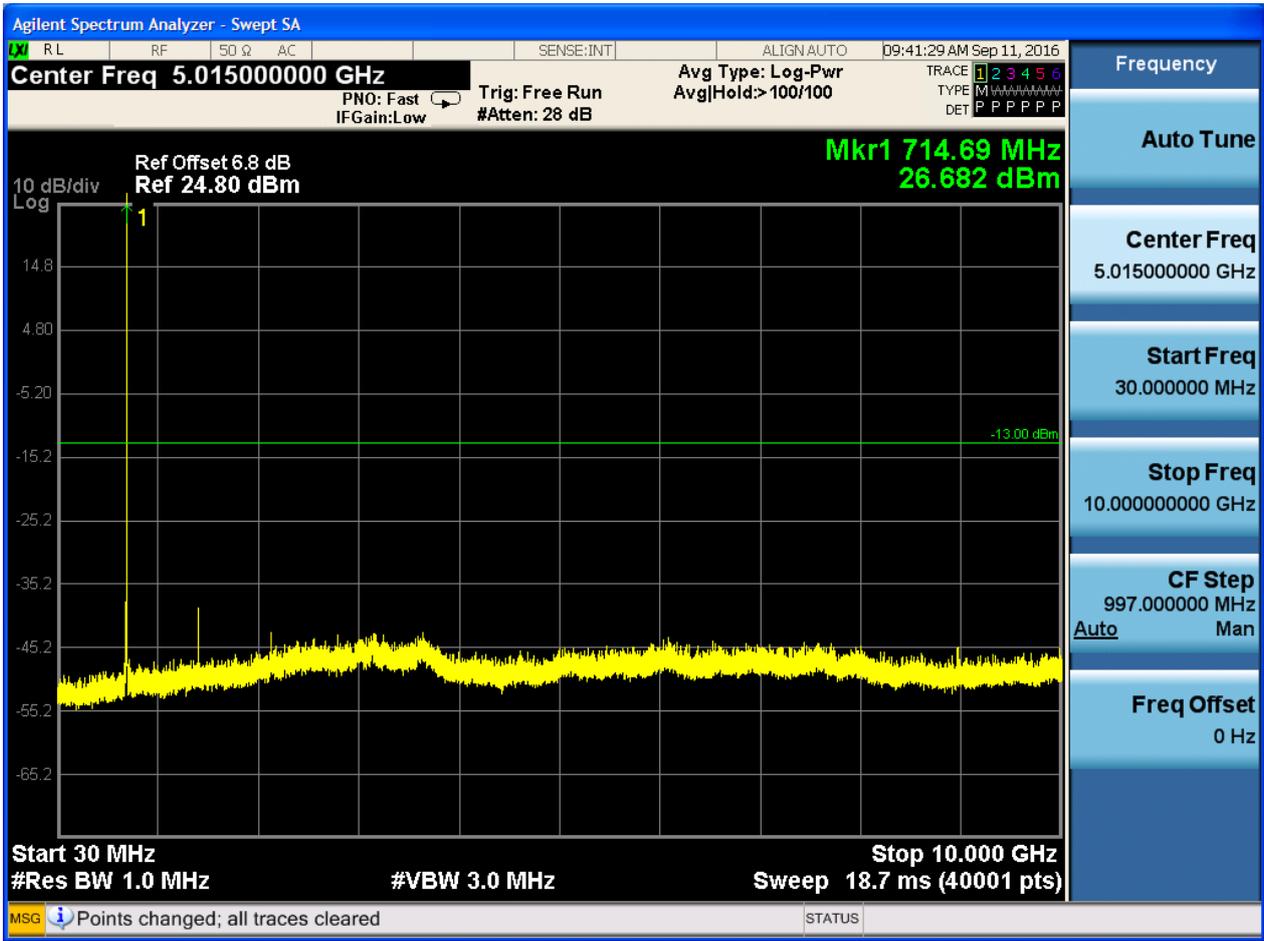
6.1.1.2.1.2.1 Test RB = RB1#0









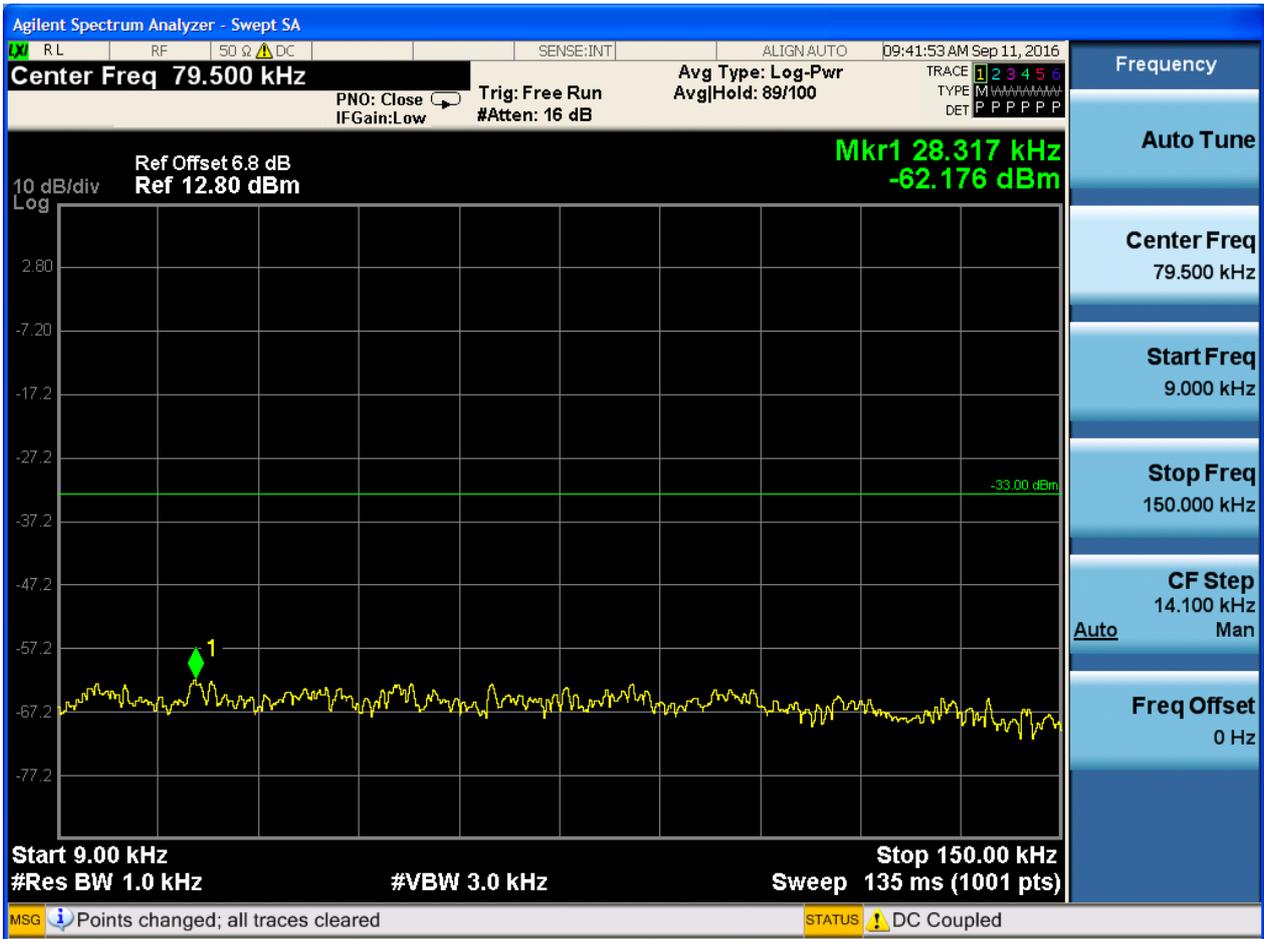




6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0

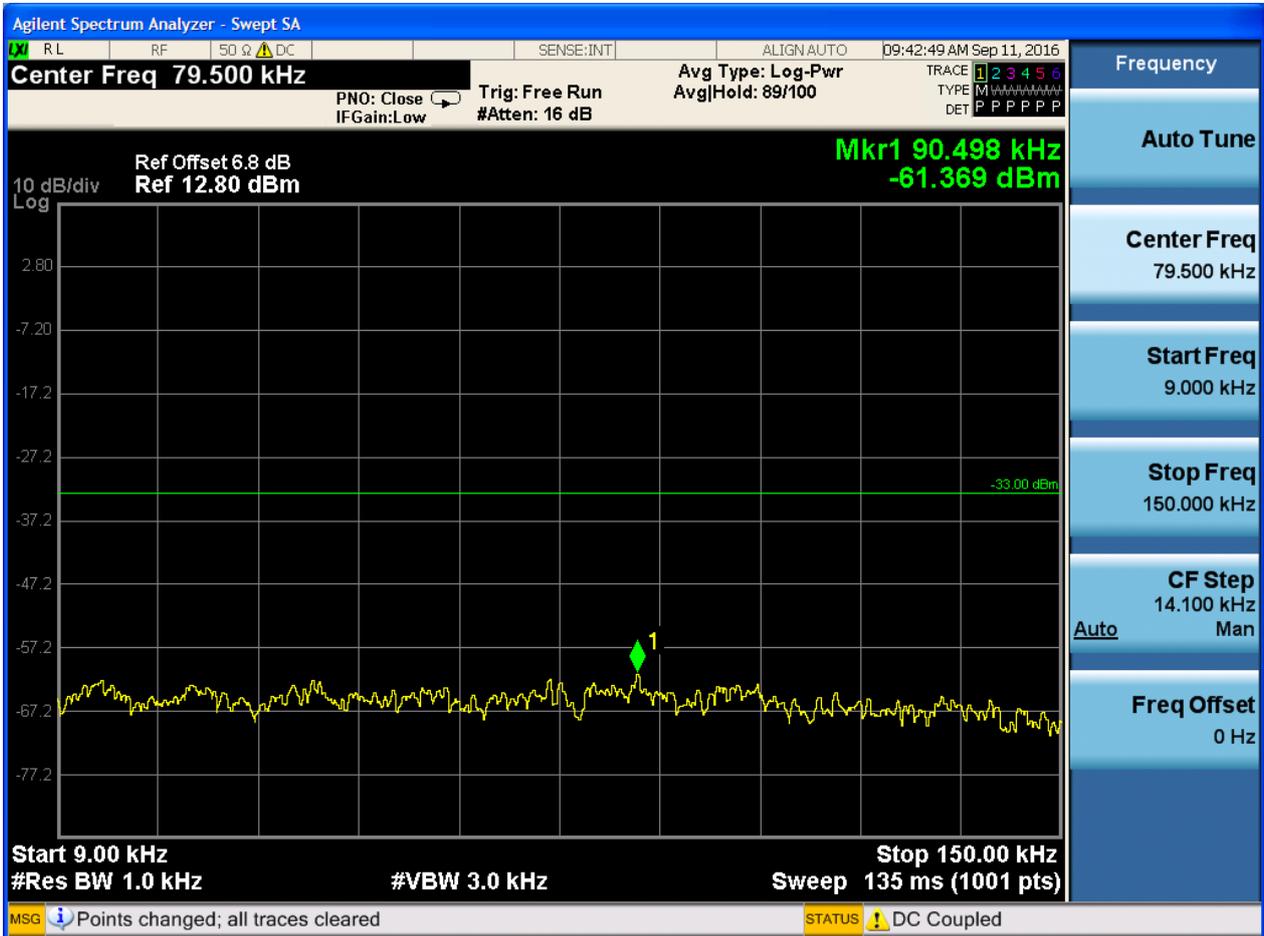






6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

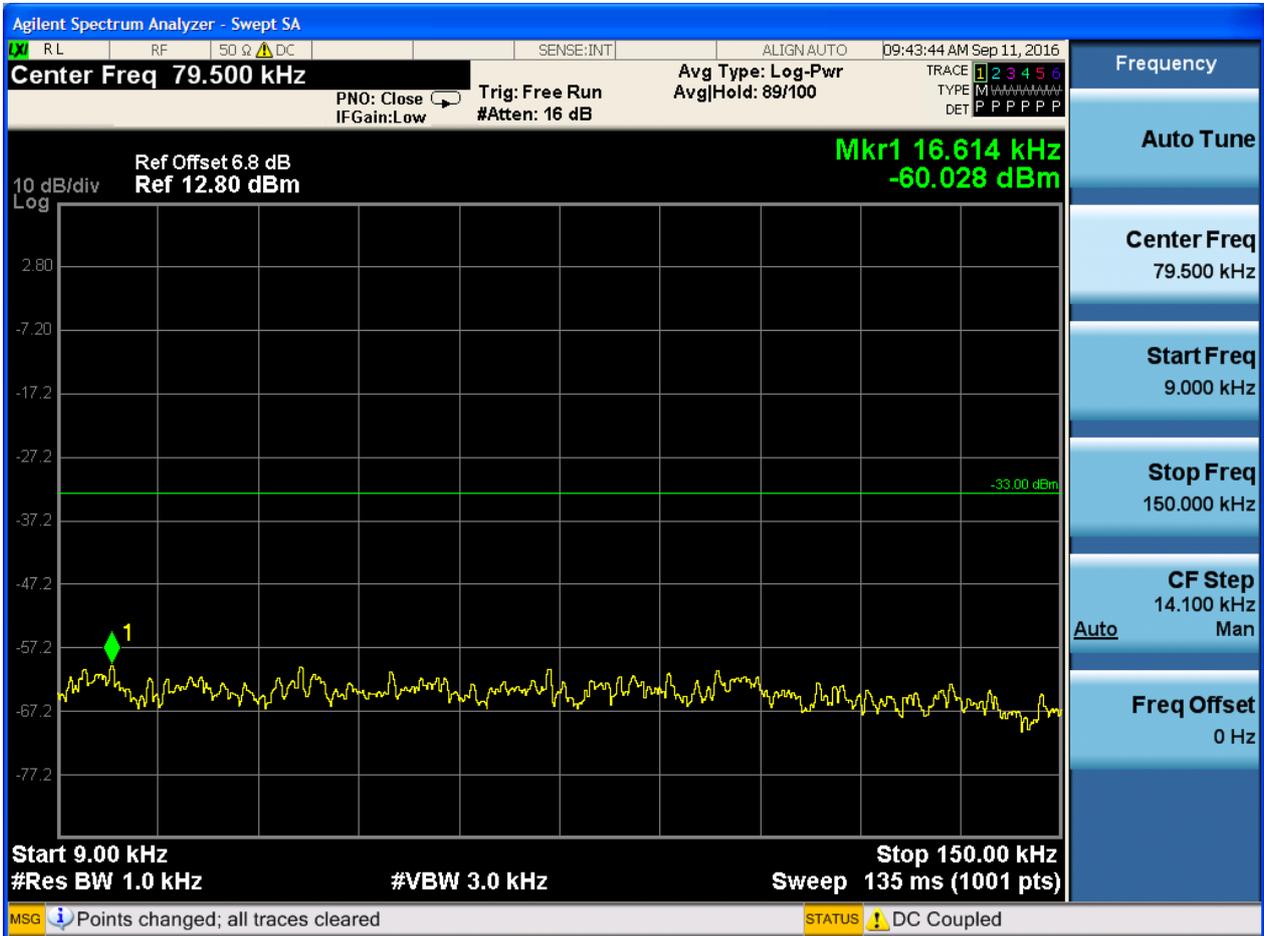


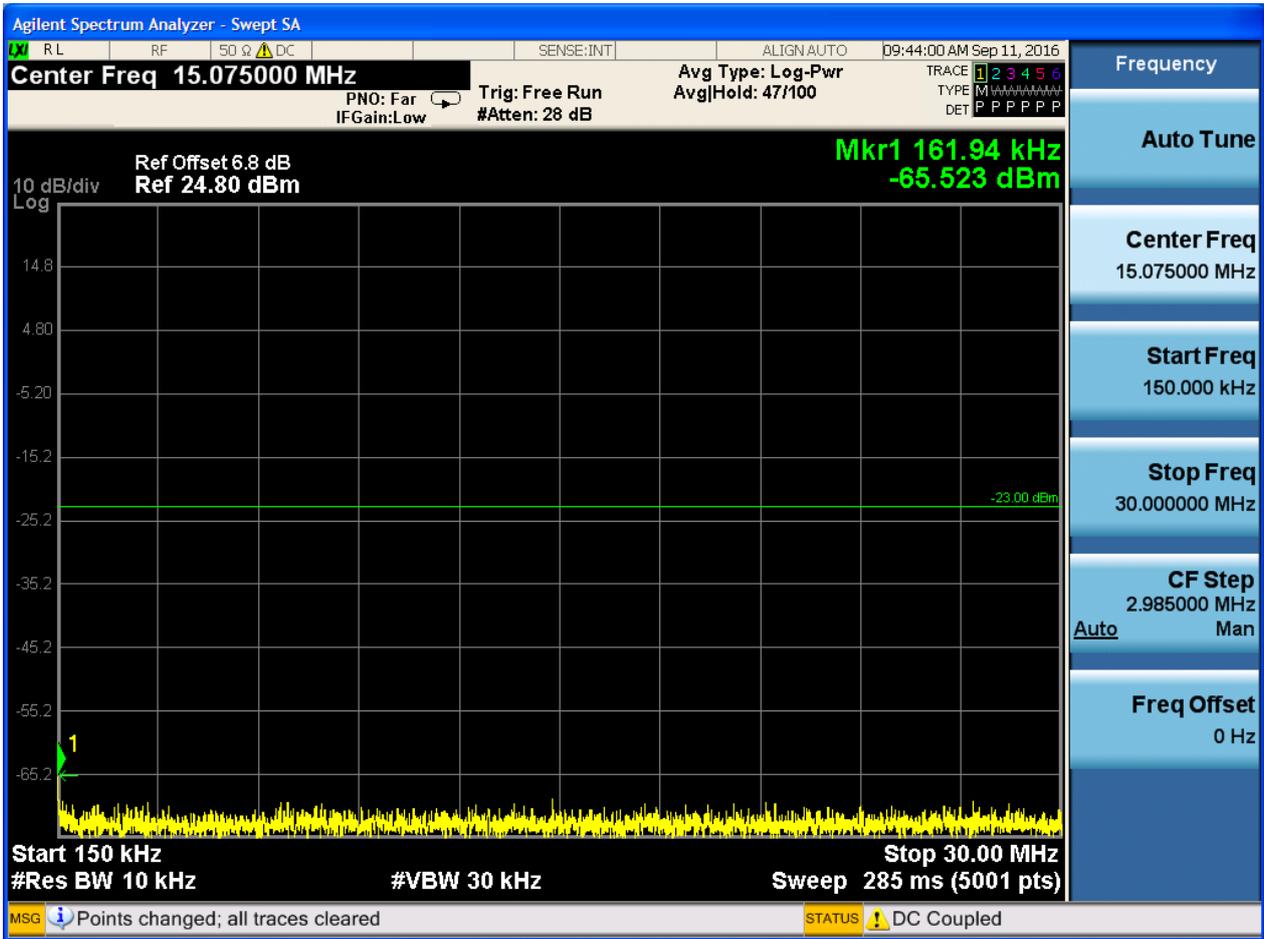


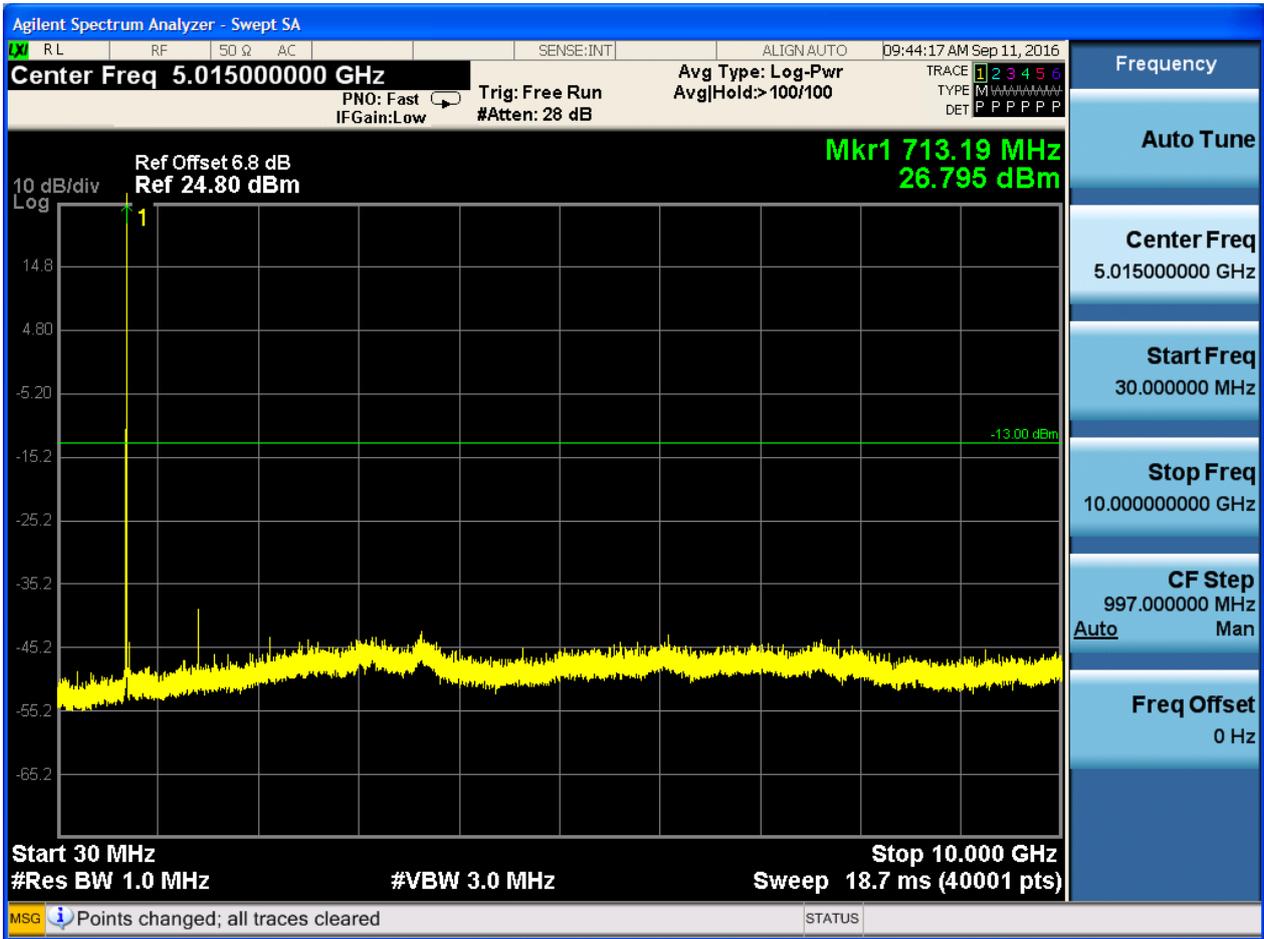


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





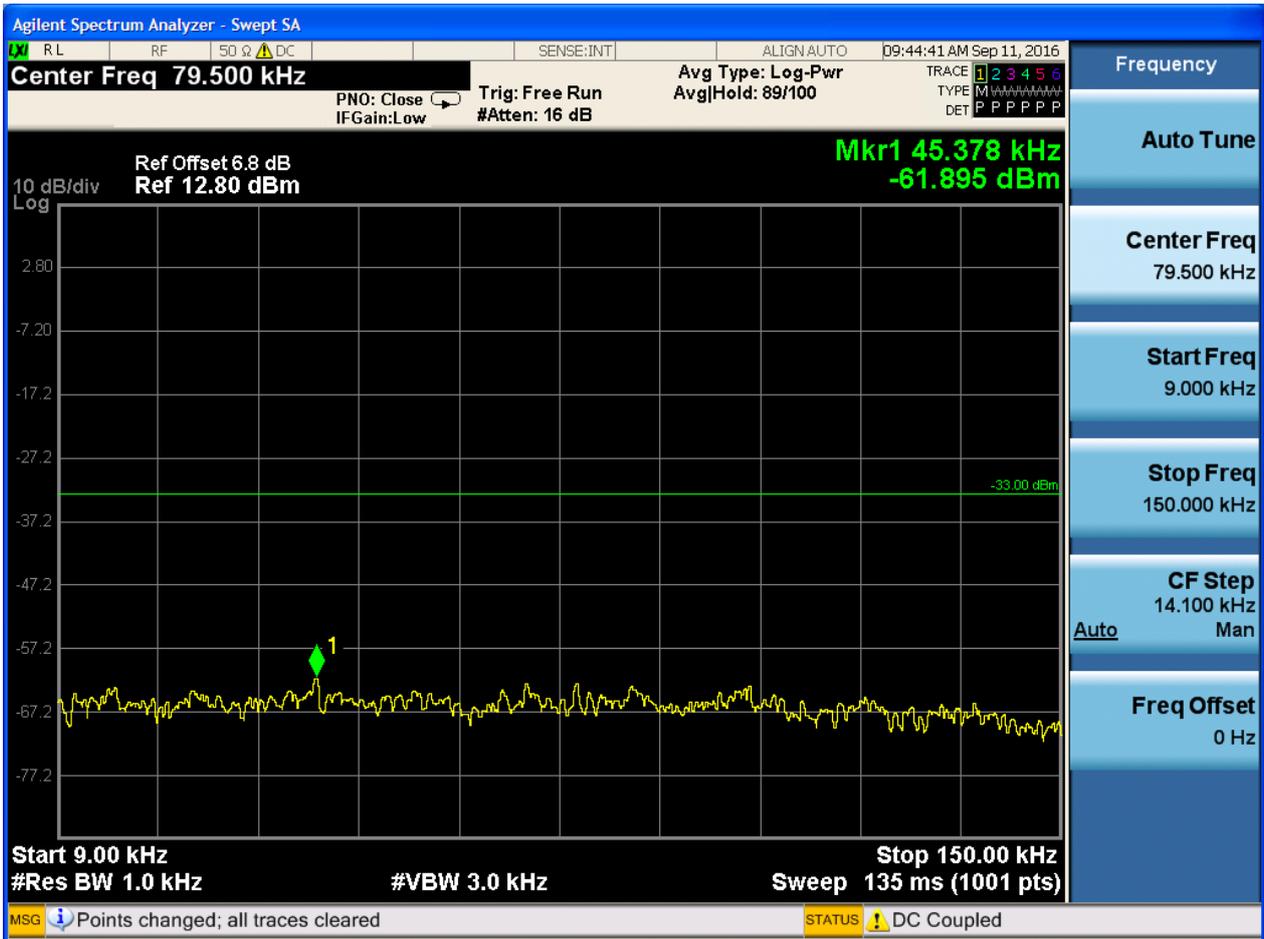




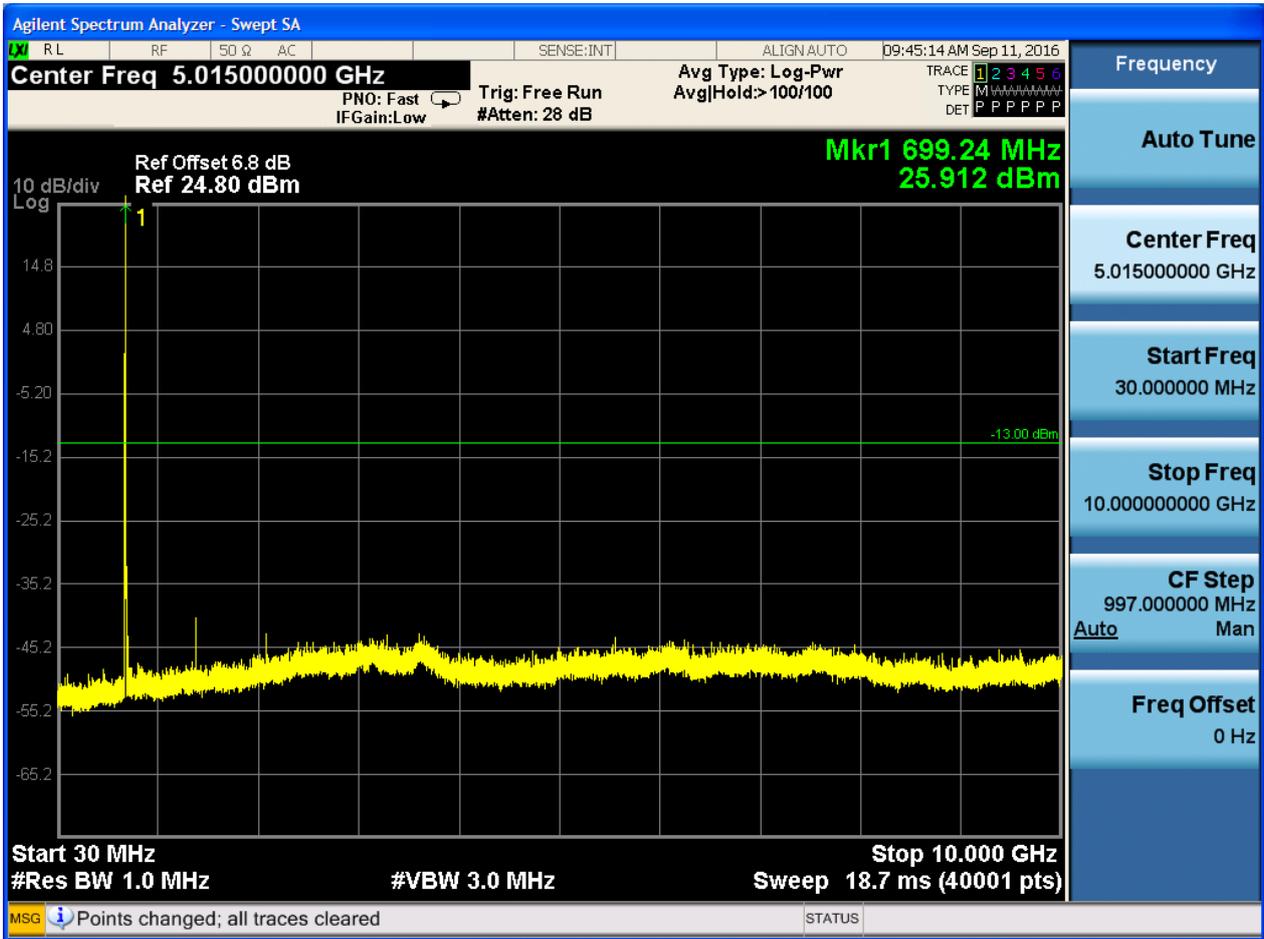
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



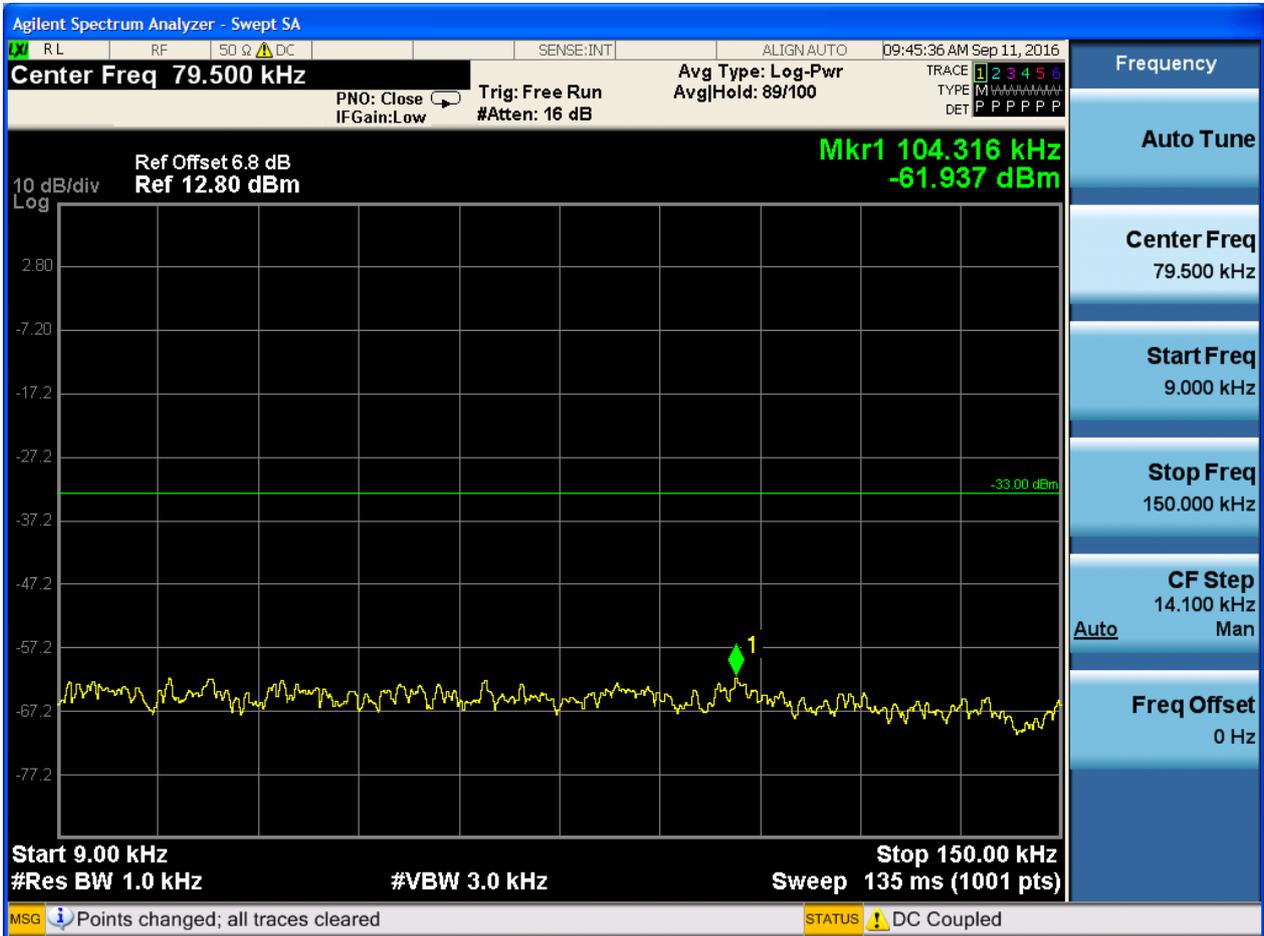


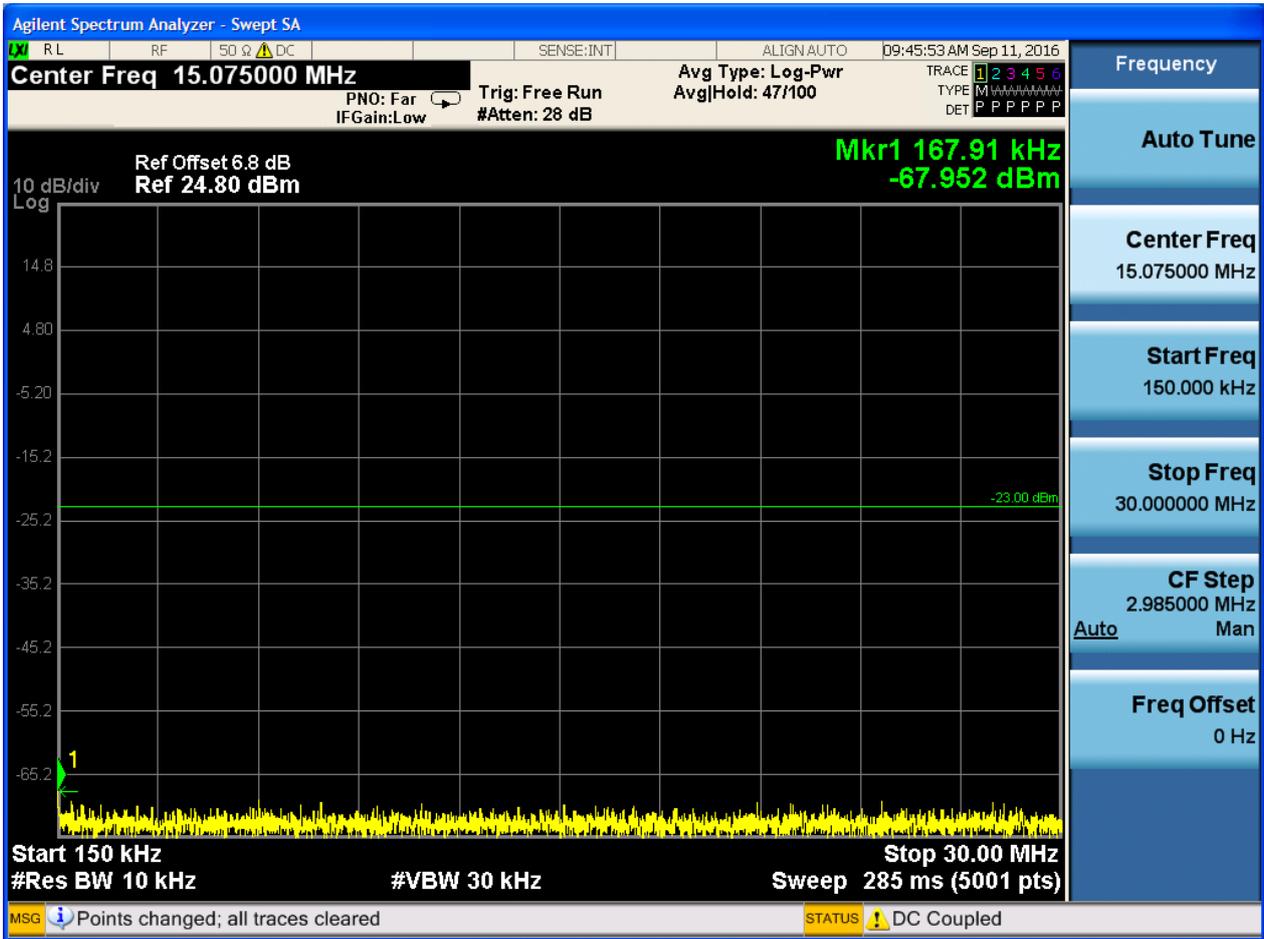


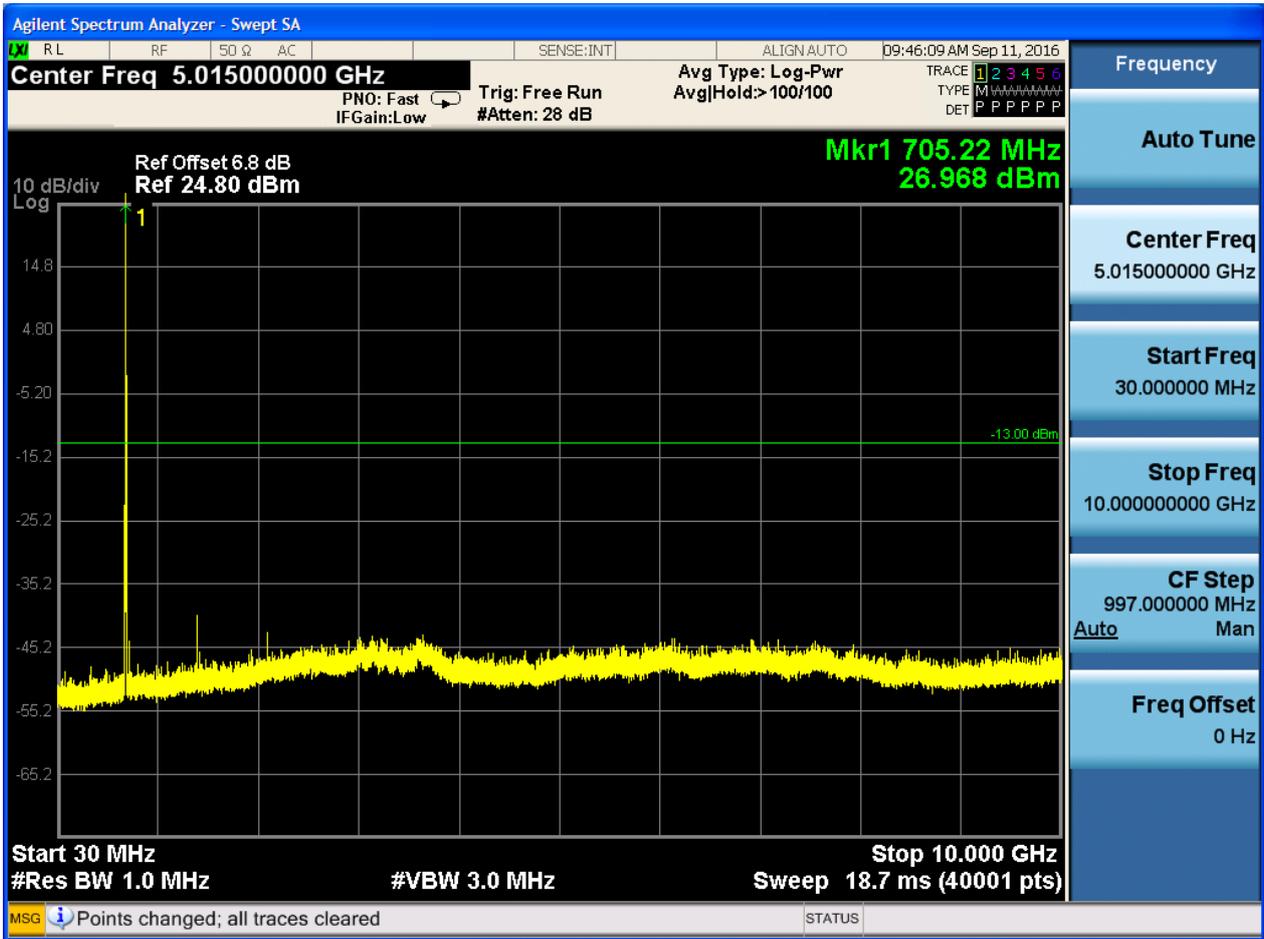


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



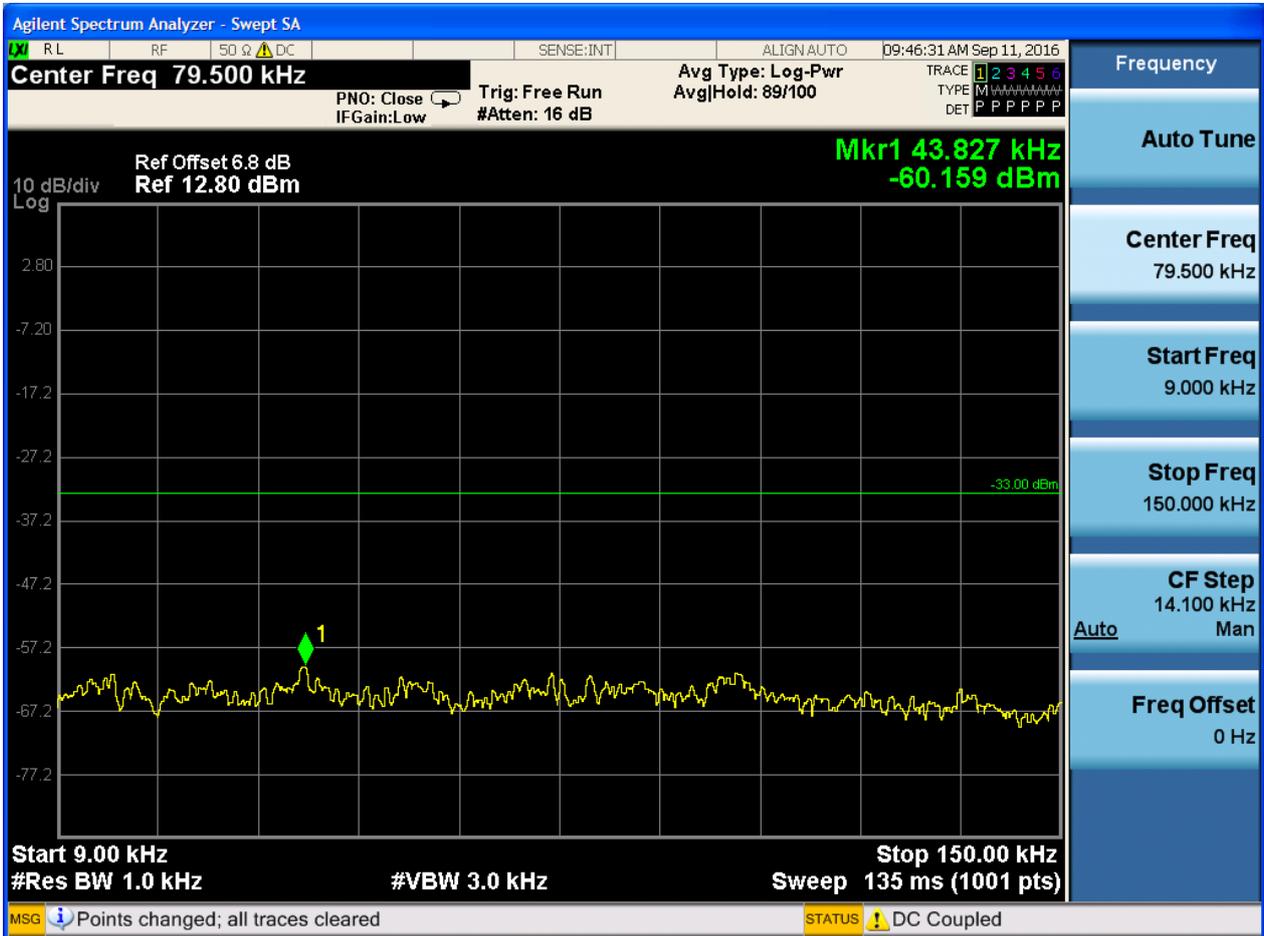


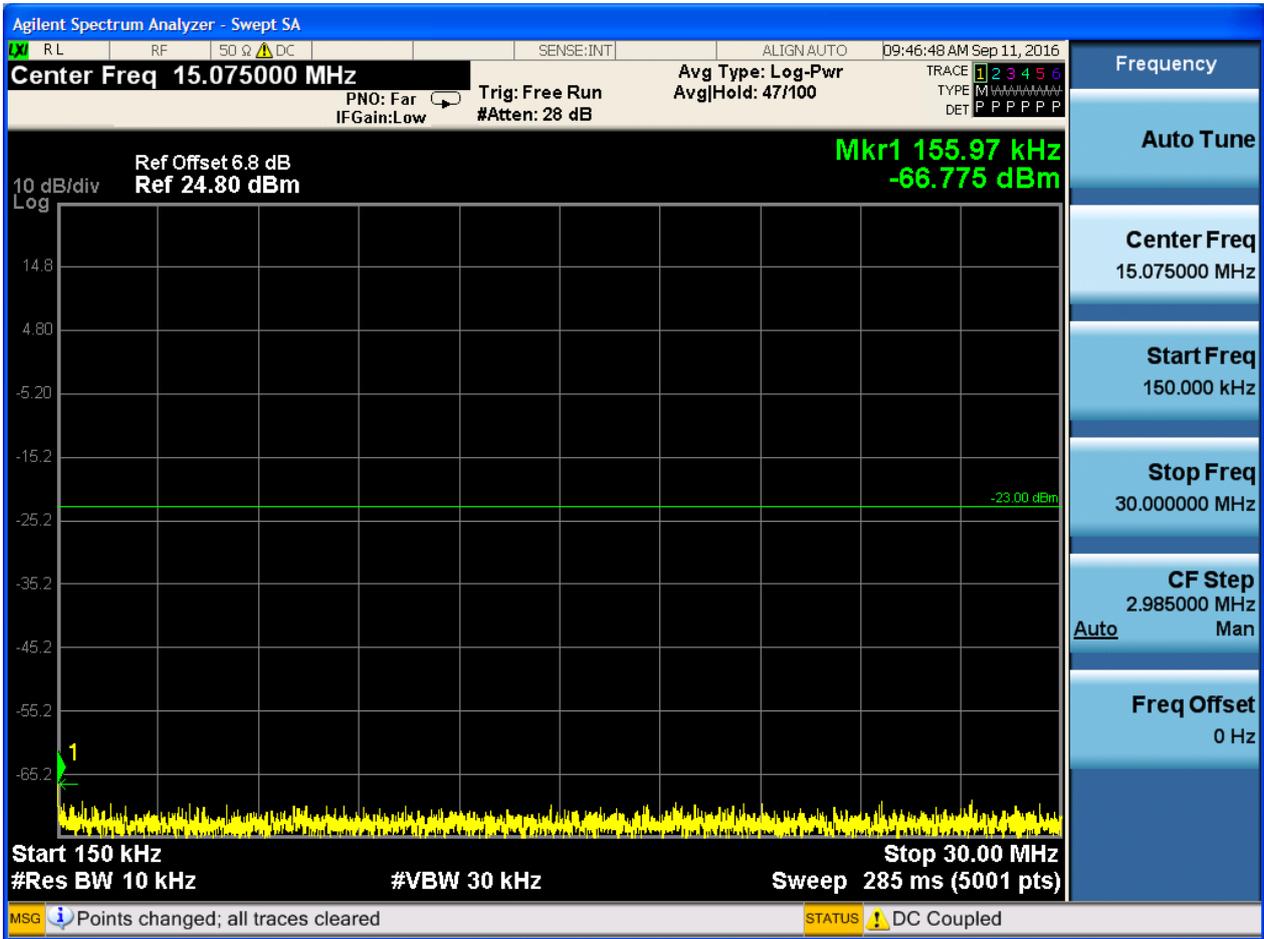


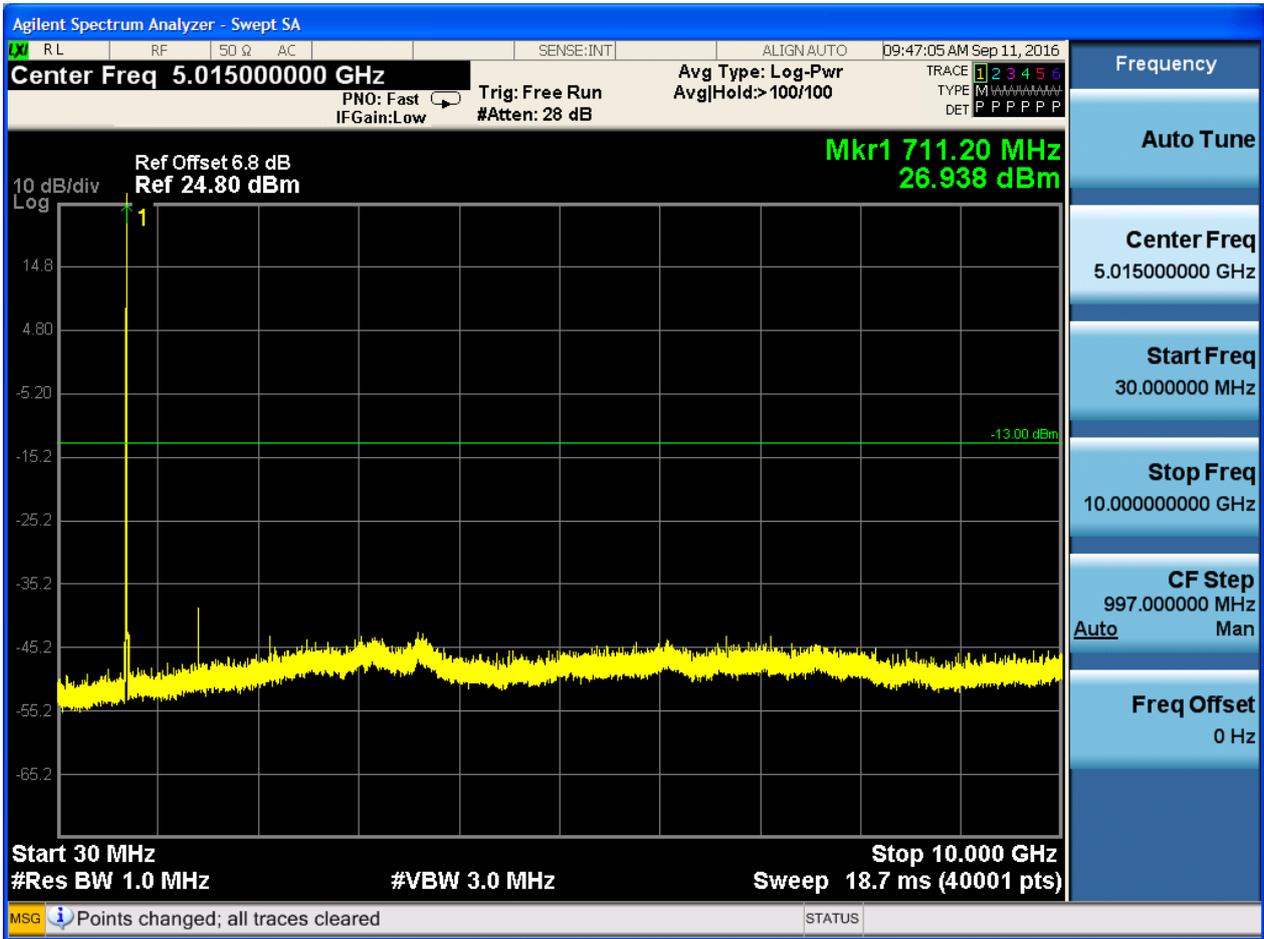


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





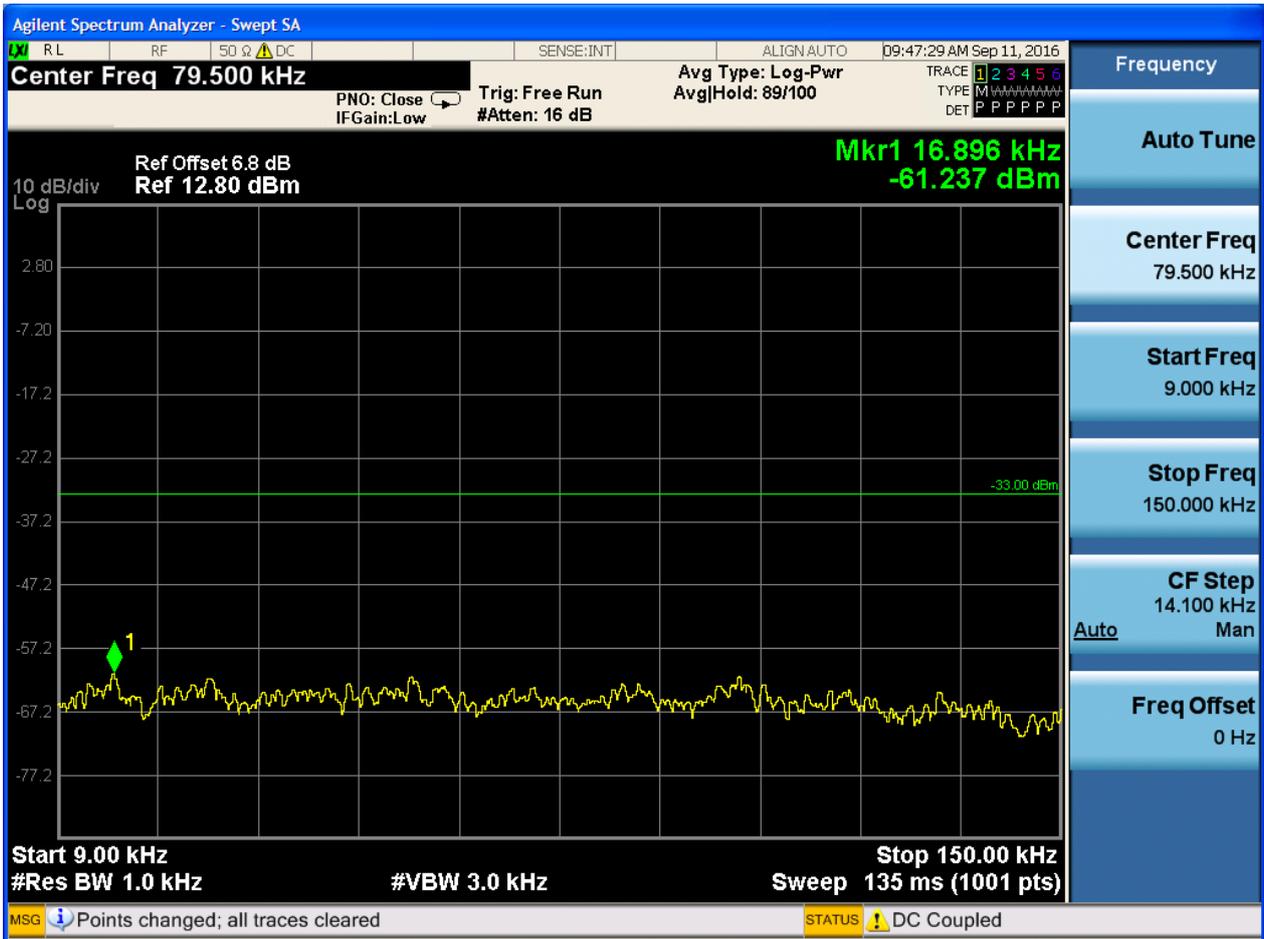




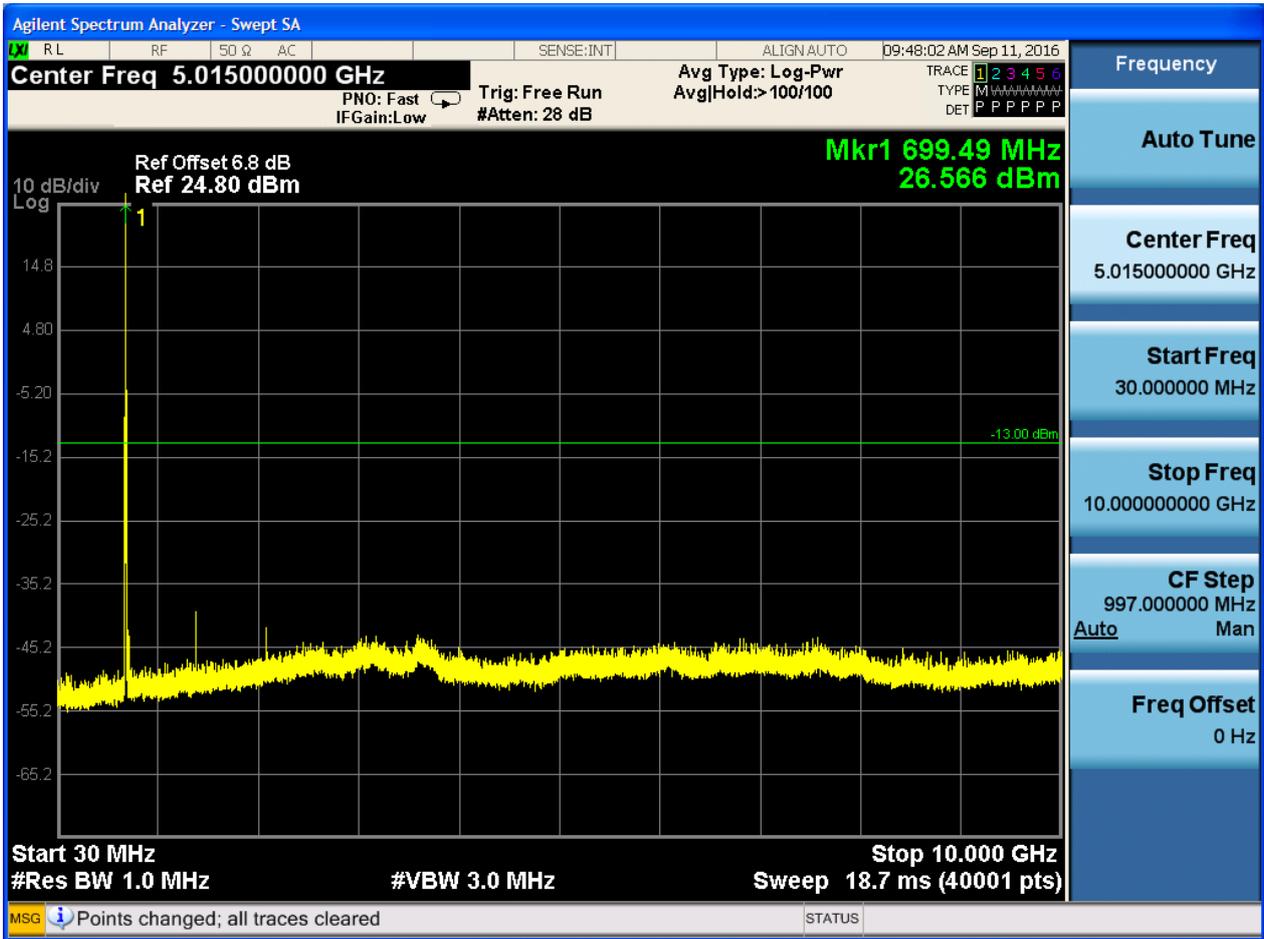
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



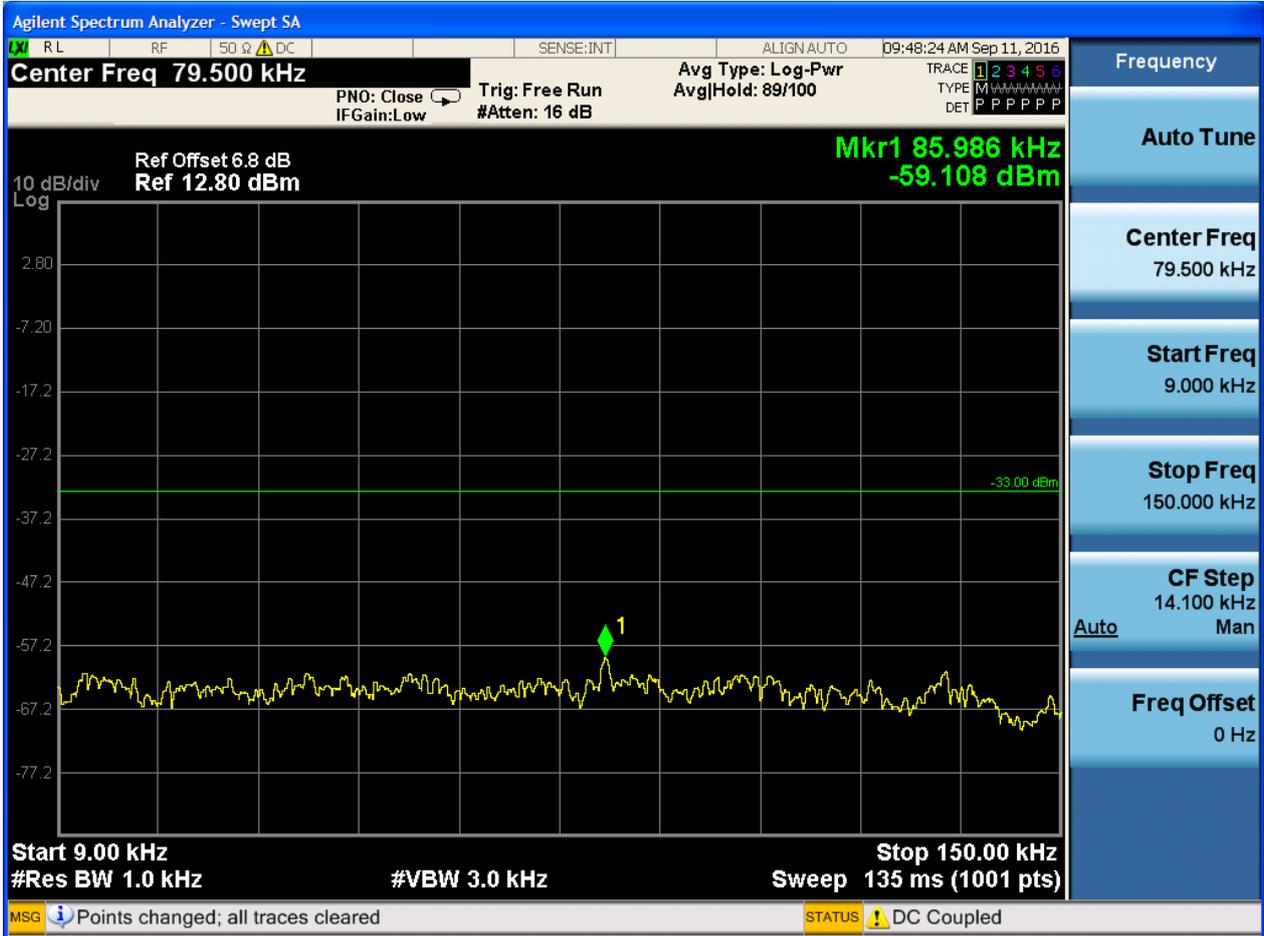


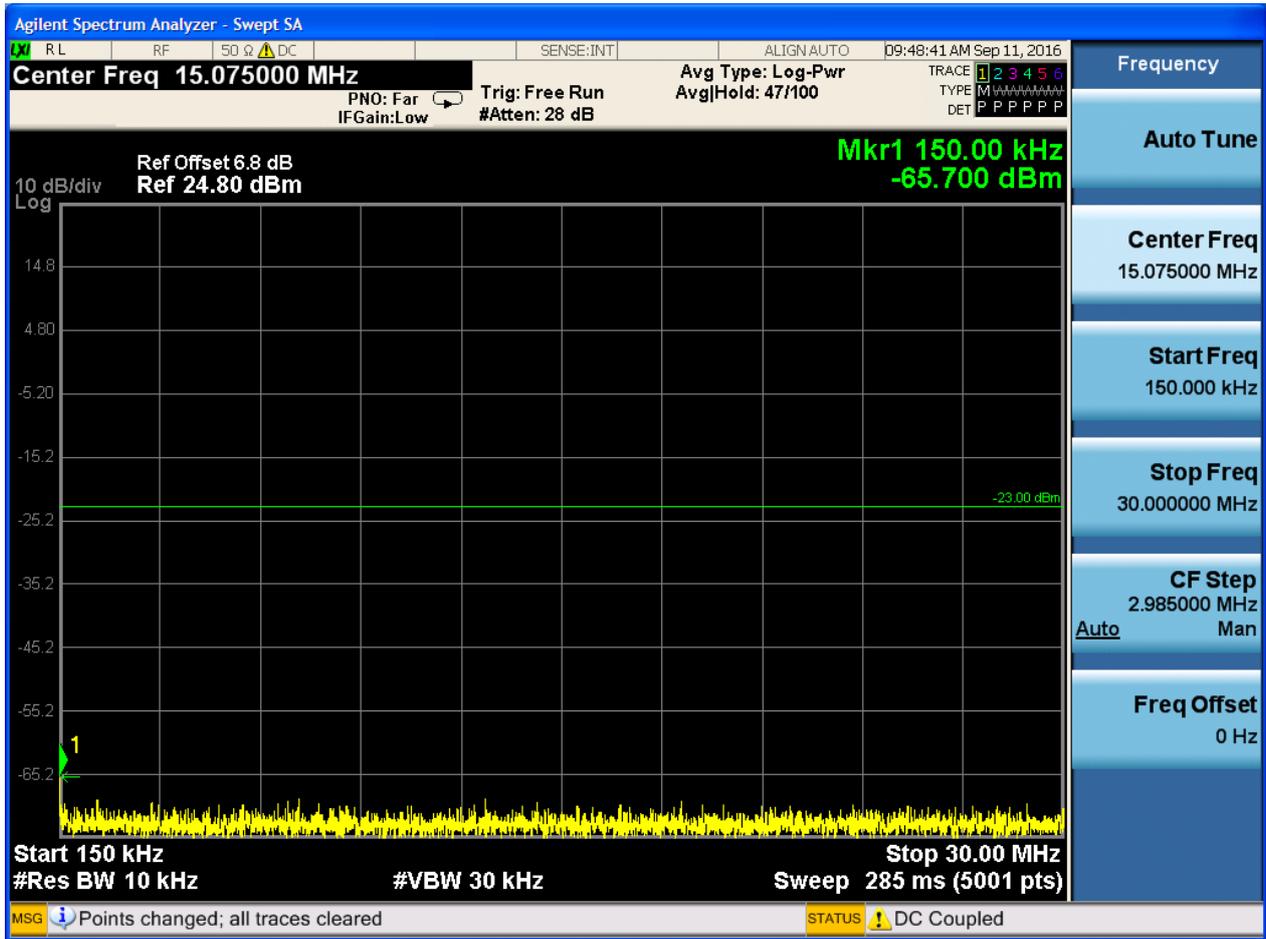


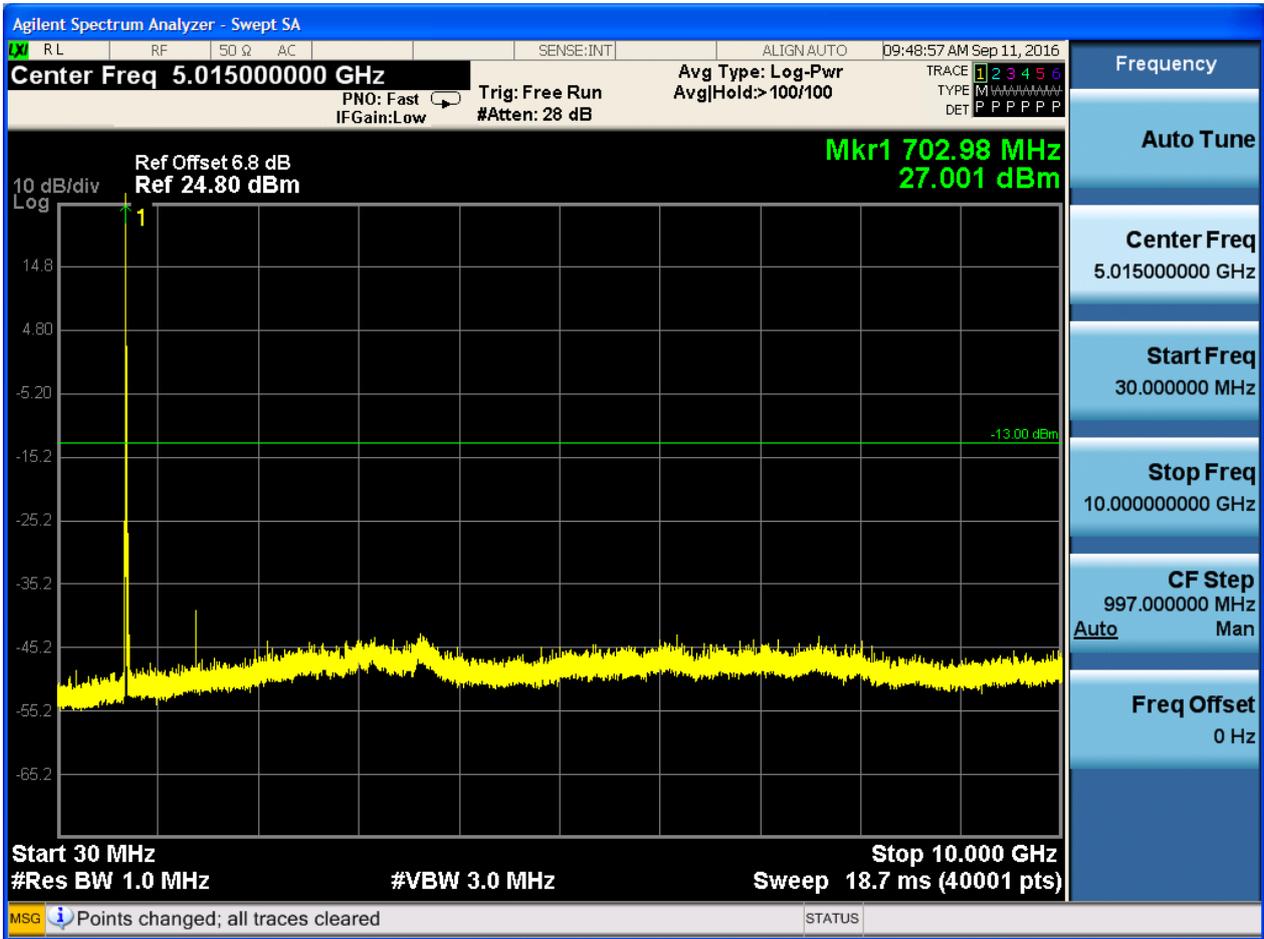


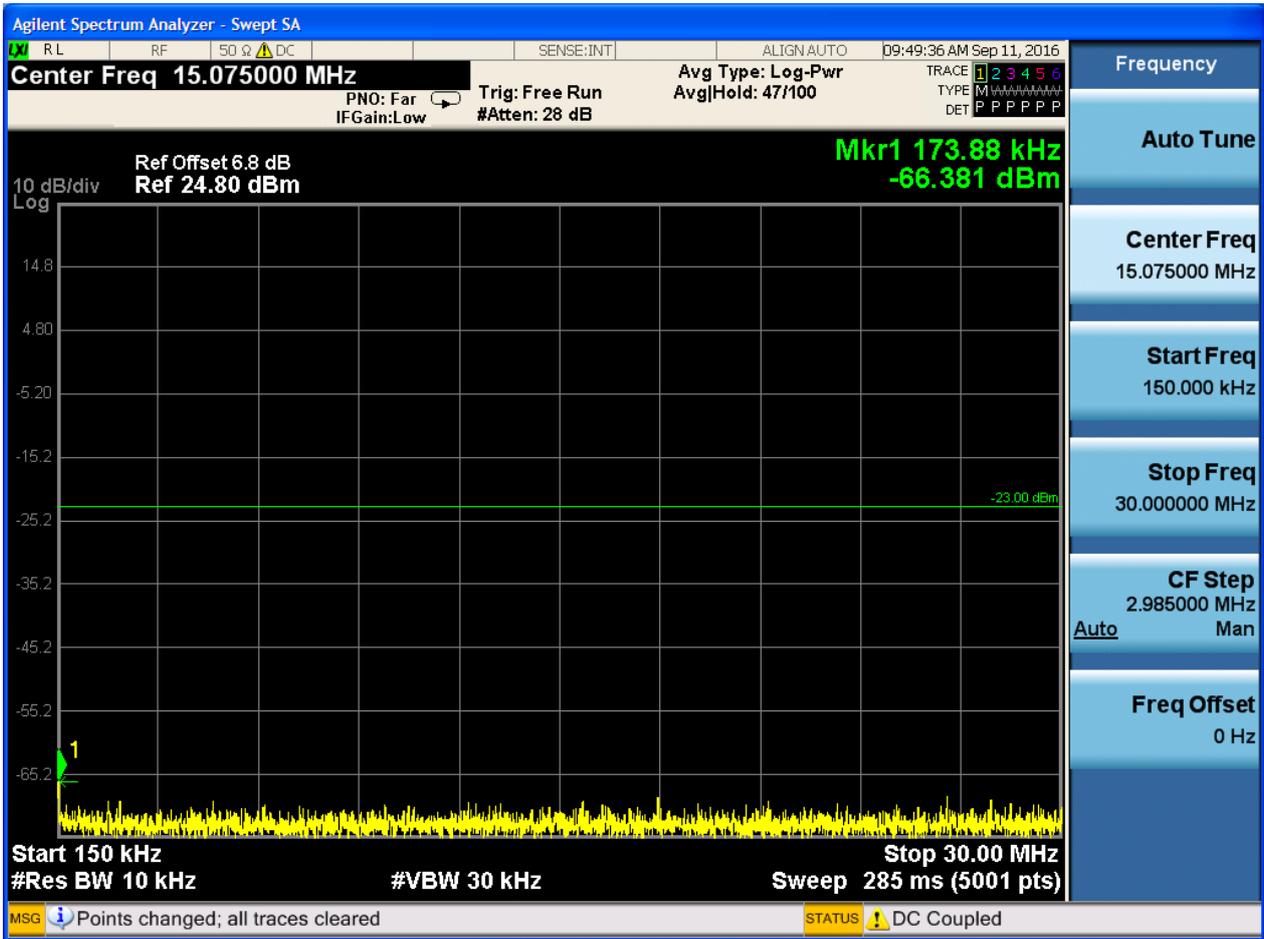
6.1.1.2.4.2 Test Channel = MCH

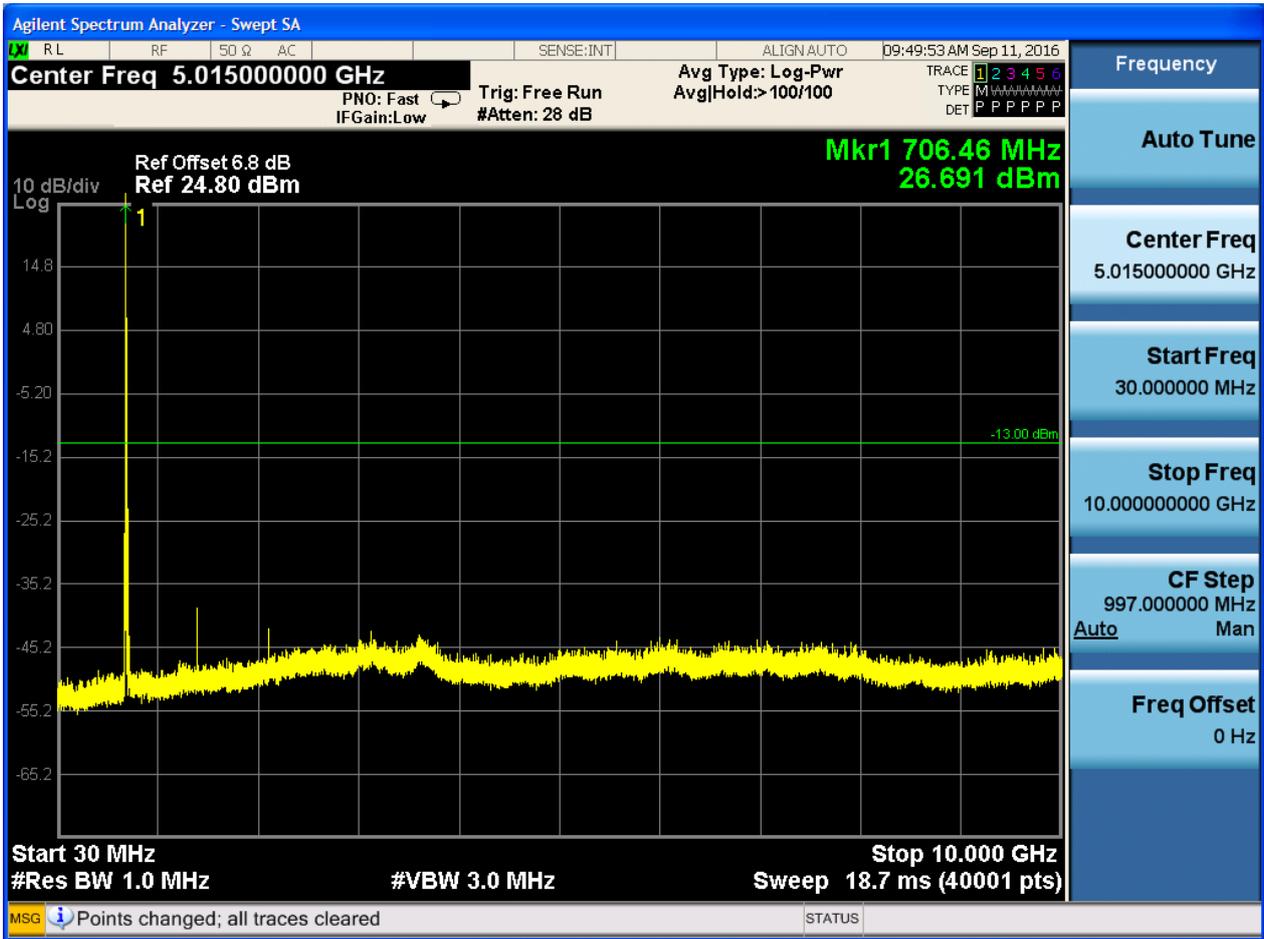
6.1.1.2.4.2.1 Test RB = RB1#0











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

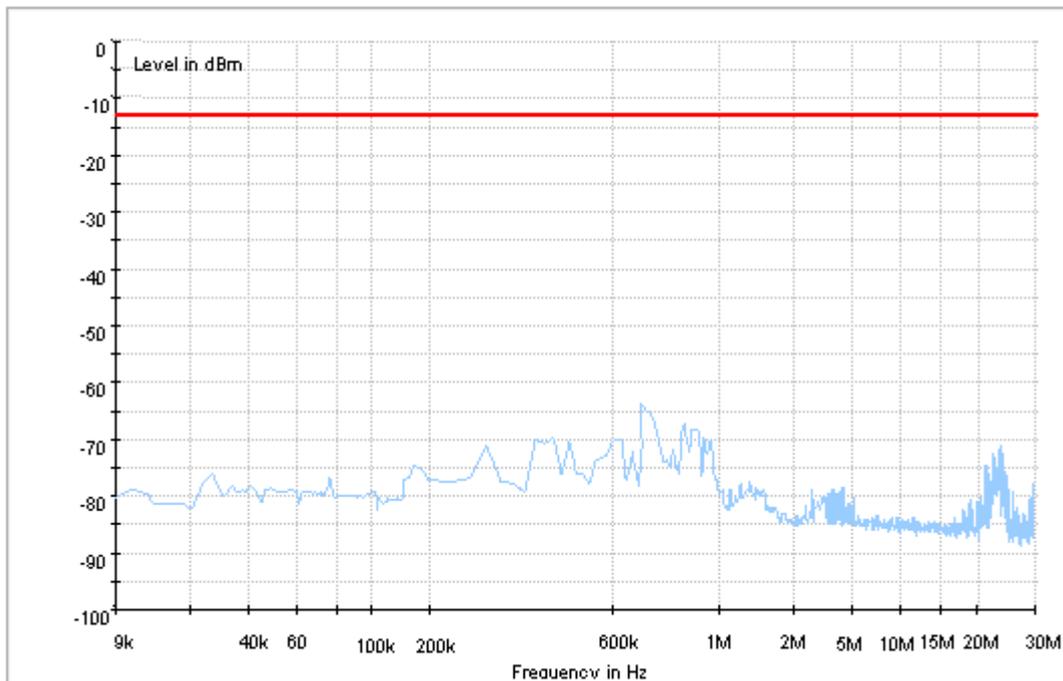
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

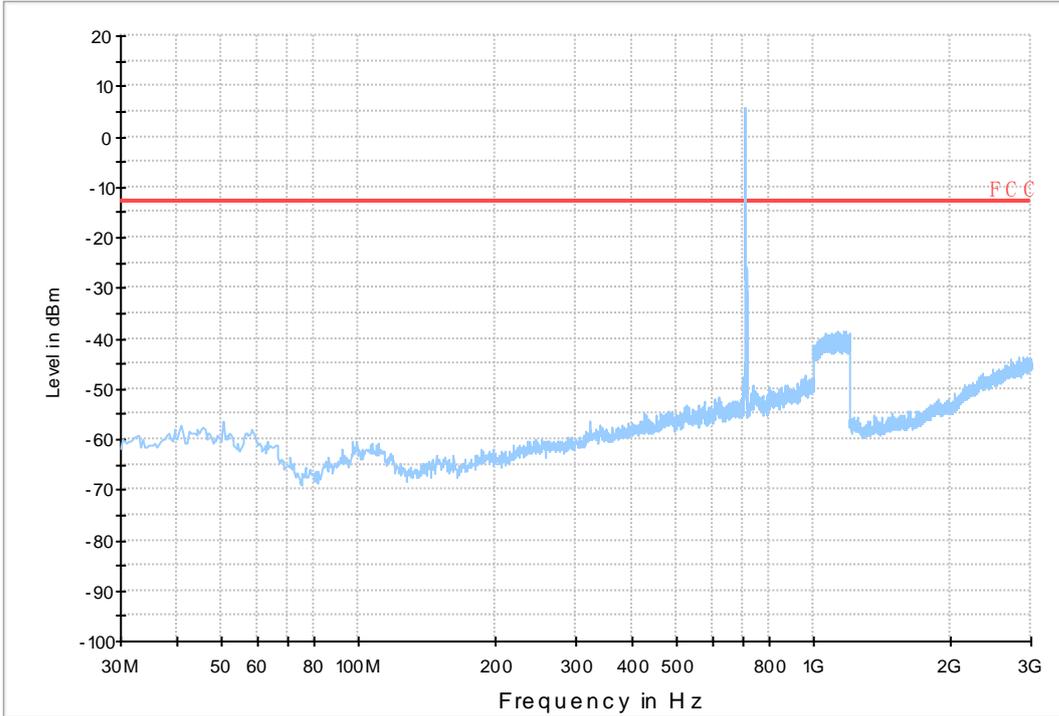
7.1 For LTE

7.1.1 Test Band = BAND12_Ant1

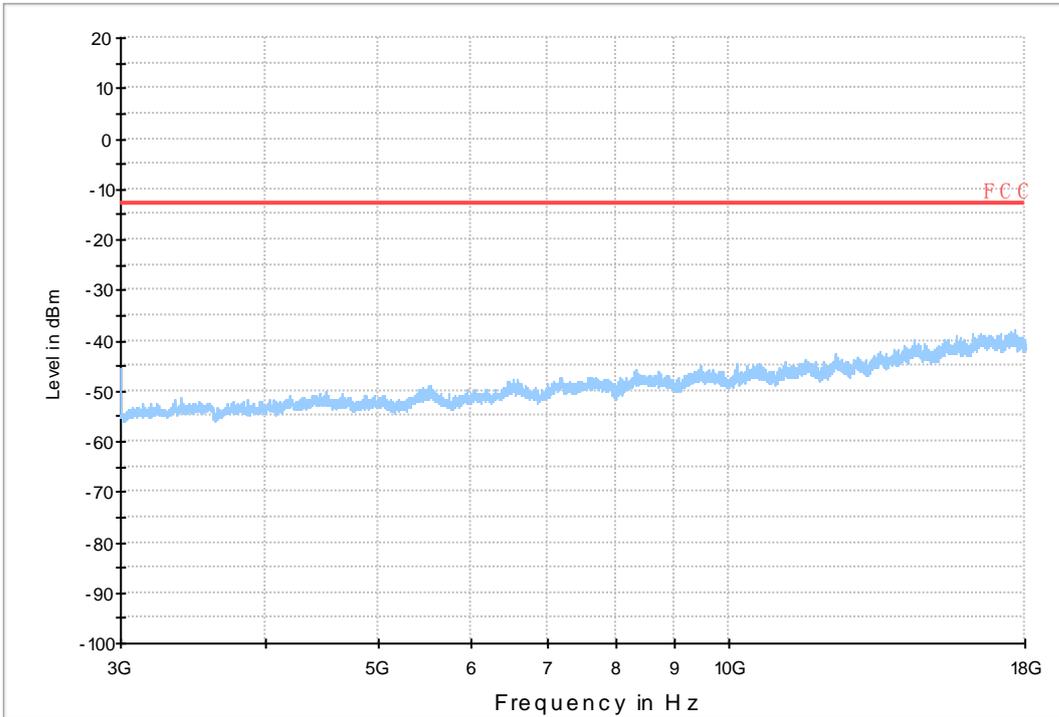
7.1.1.1 Test Bandwidth = 1.4



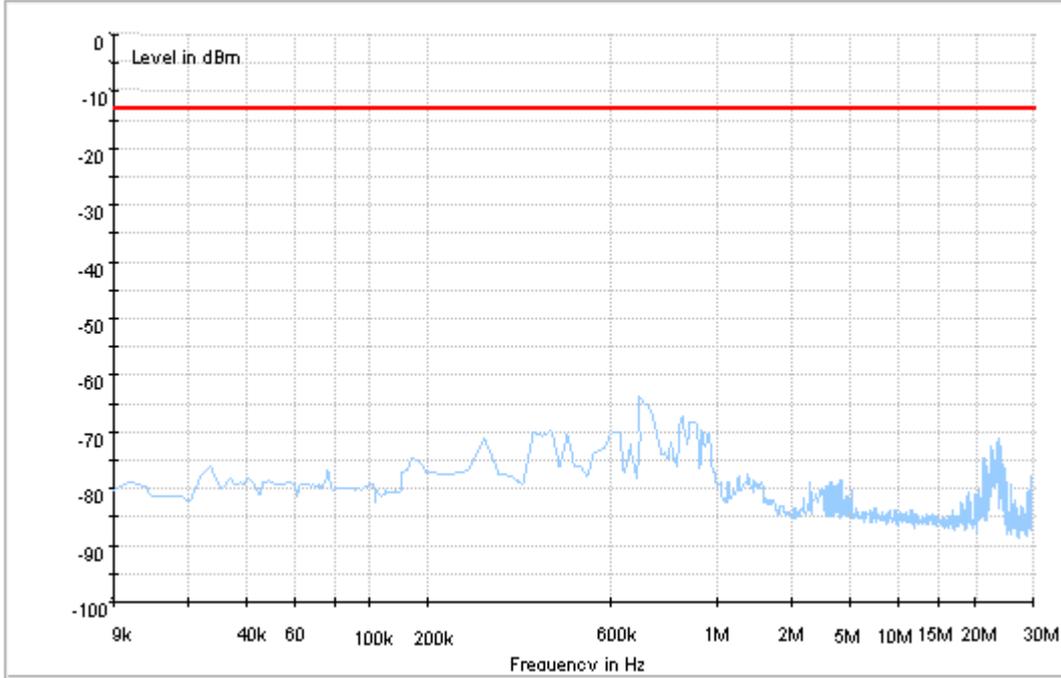
Copy of RSE-TX-DIRECTOR BELOW 1G_L



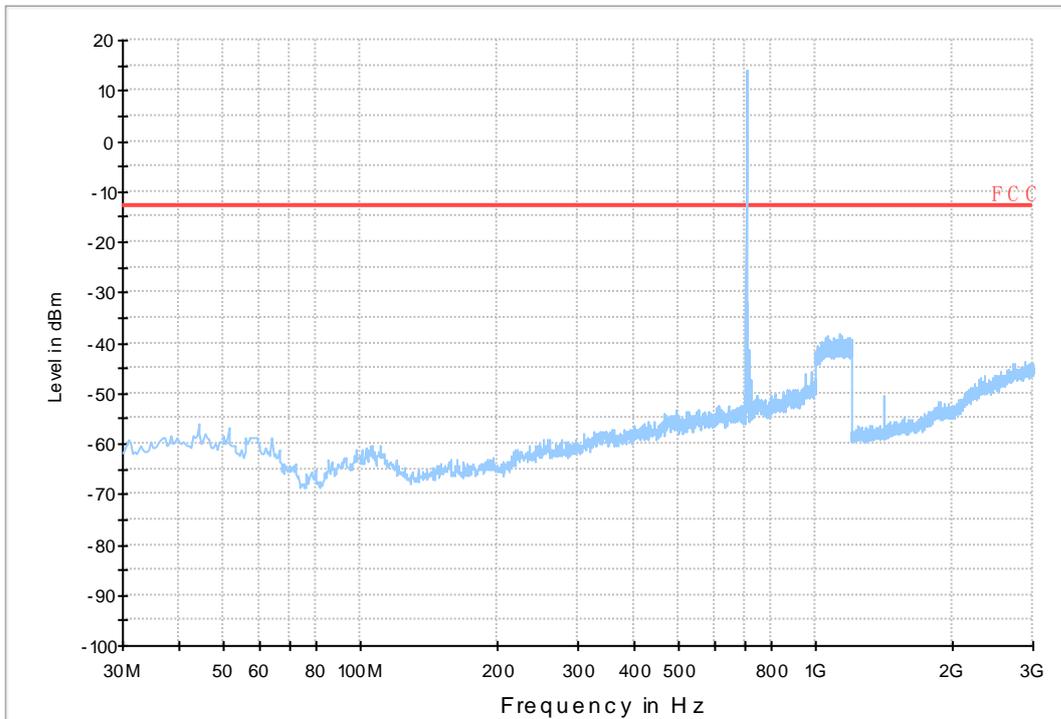
Copy of RSE-TX-DIRECTOR BELOW 1G_H



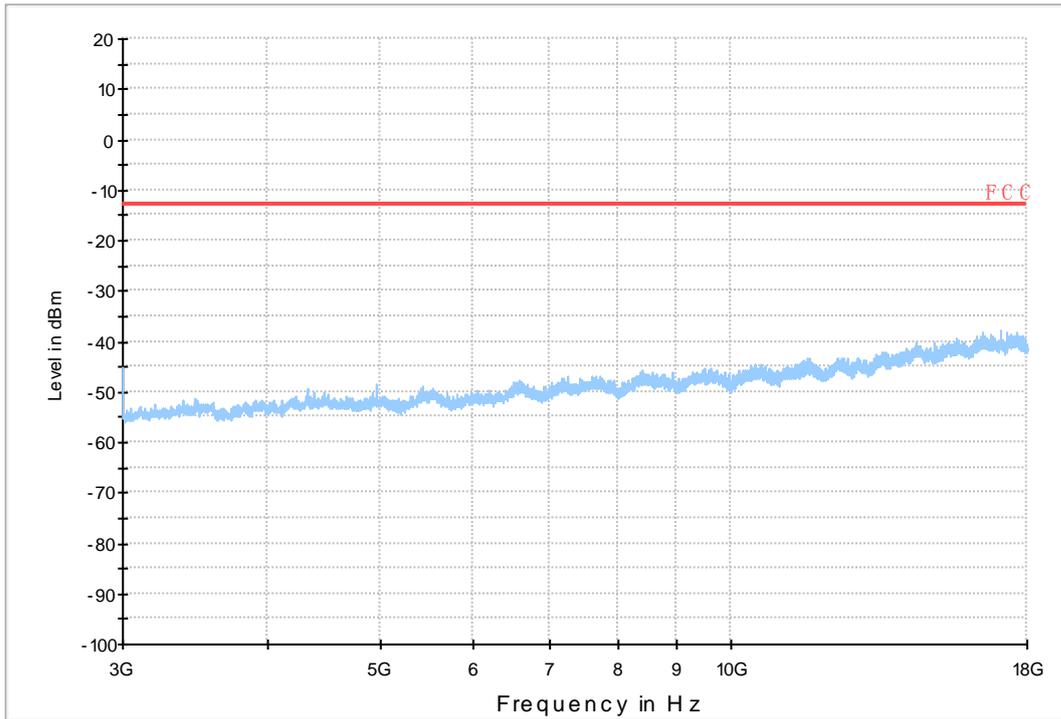
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

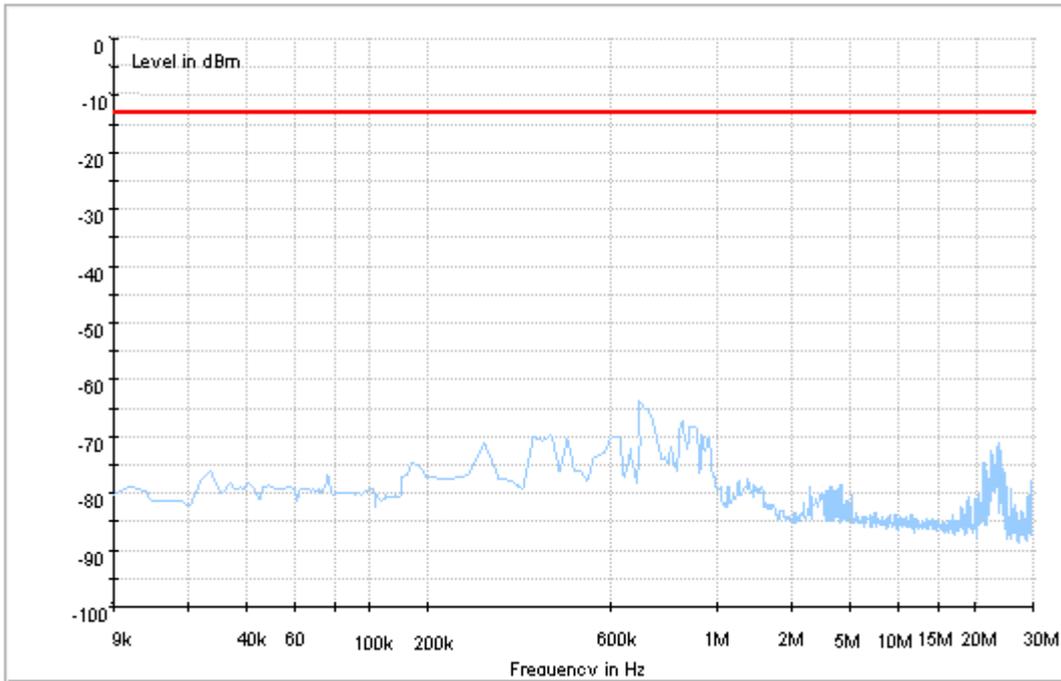


Copy of RSE-TX-DIRECTOR BELOW 1G_H

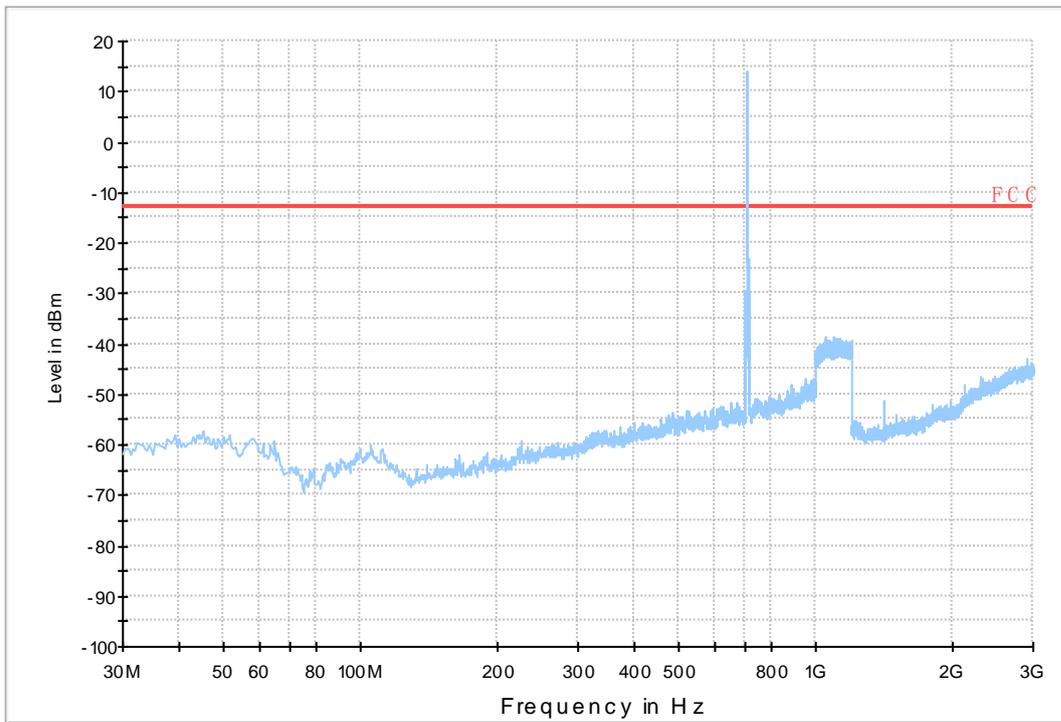


7.1.2 Test Band = BAND12__Ant2

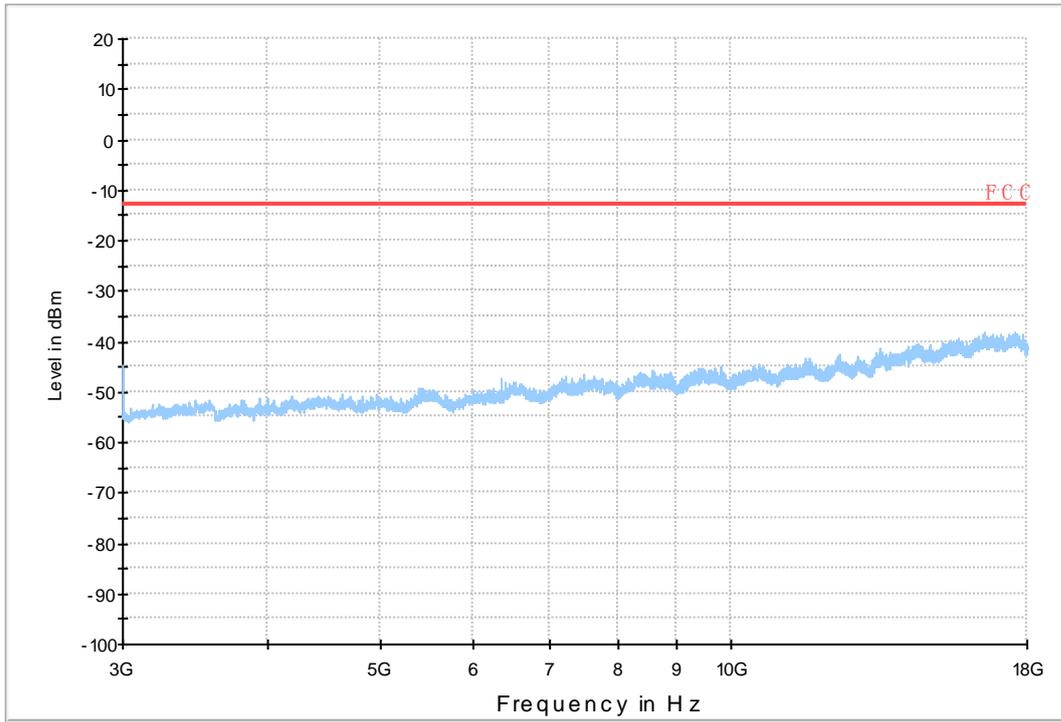
7.1.2.1 Test Bandwidth = 1.4



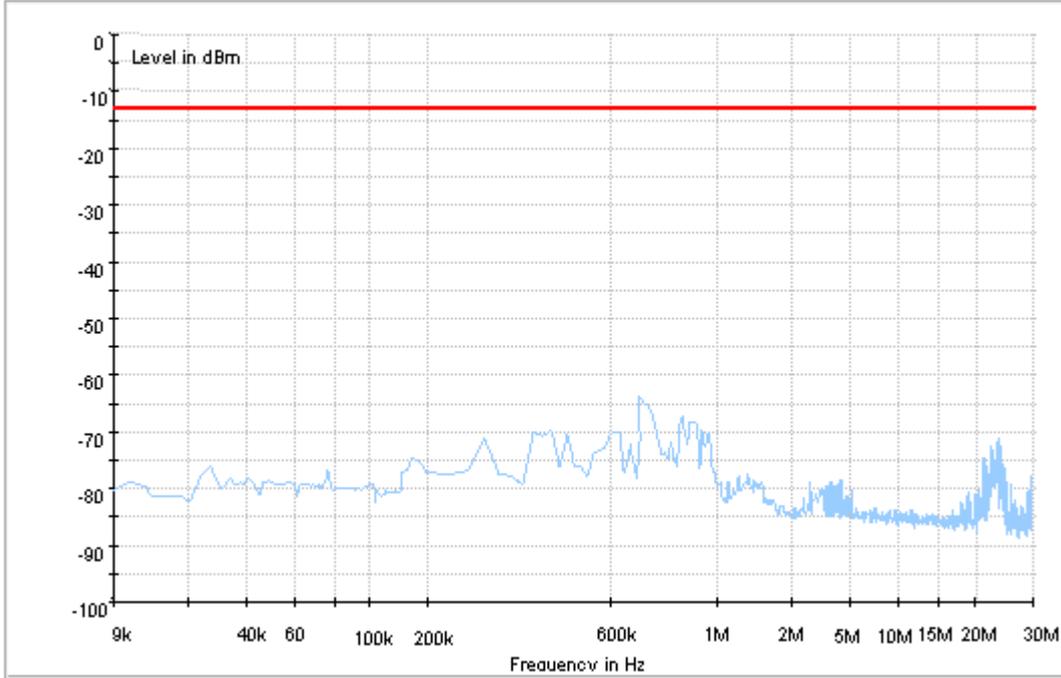
Copy of RSE-TX-DIRECTOR BELOW 1G_L



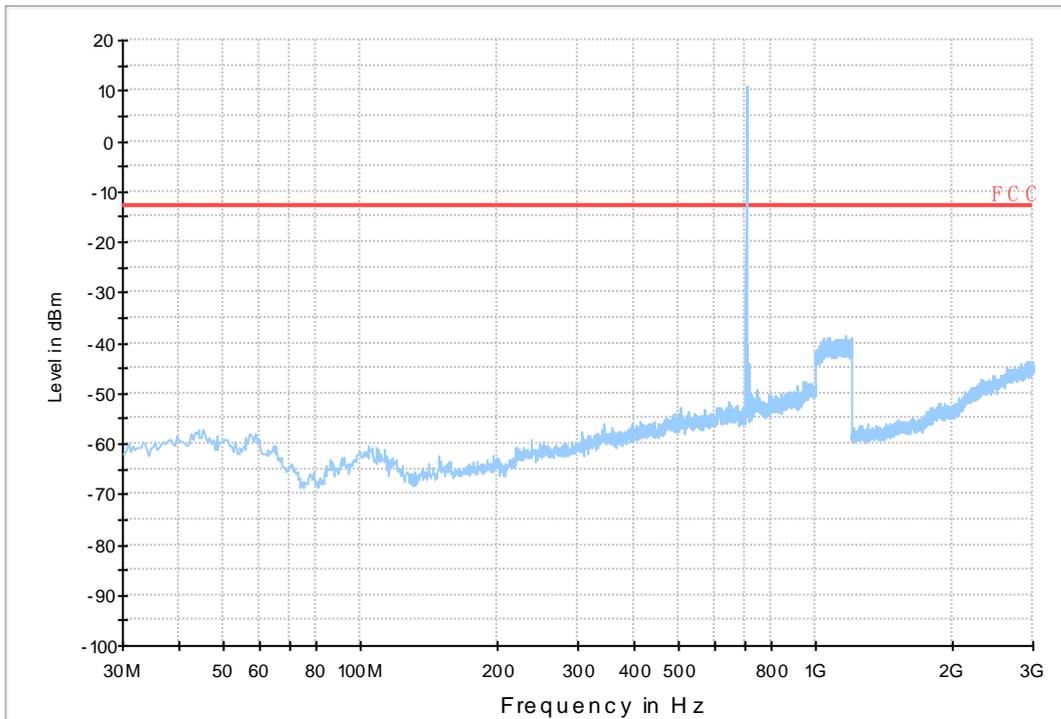
Copy of RSE-TX-DIRECTOR BELOW 1G_H



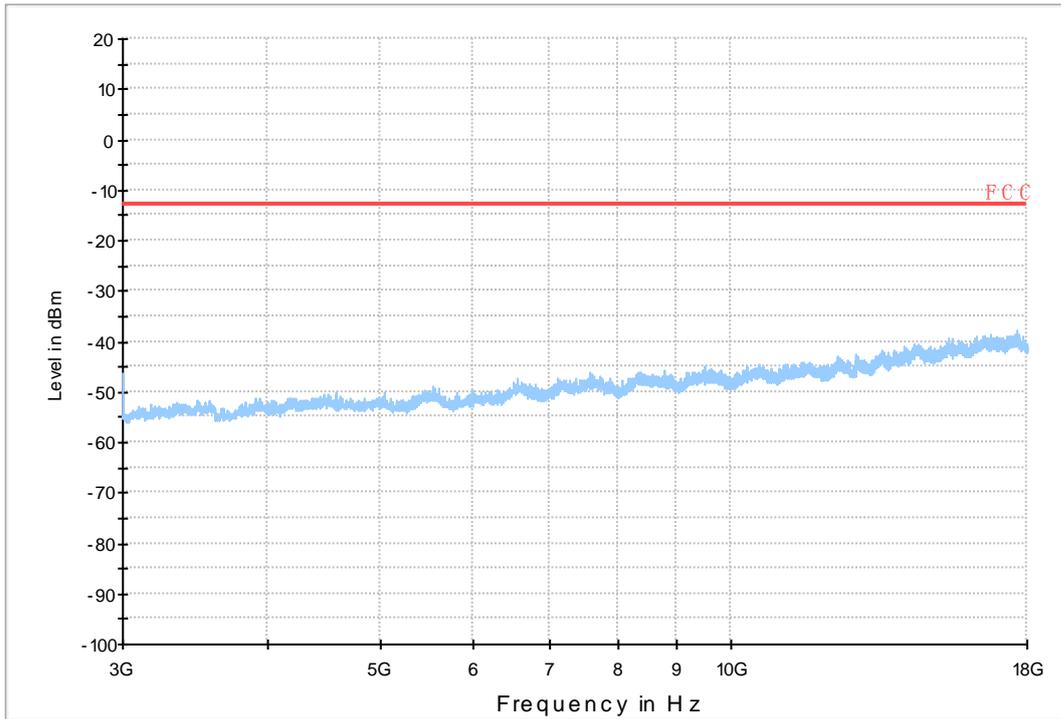
7.1.2.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_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
BAND12	LTE/TM1	1.4	LCH	TN	VL	-11.93	-0.01705	PASS
					VN	5.56	0.00795	PASS
					VH	16.58	0.0237	PASS
			MCH	TN	VL	-4.09	-0.00578	PASS
					VN	9.46	0.01337	PASS
					VH	11.20	0.01583	PASS
			HCH	TN	VL	-14.69	-0.02054	PASS
					VN	5.39	0.00754	PASS
					VH	20.59	0.02879	PASS
		3	LCH	TN	VL	-1.16	-0.00166	PASS
					VN	0.03	0.00004	PASS
					VH	-57.03	-0.08141	PASS
			MCH	TN	VL	35.68	0.05043	PASS
					VN	32.40	0.0458	PASS
					VH	15.42	0.0218	PASS
			HCH	TN	VL	-1.70	-0.00238	PASS
					VN	5.25	0.00735	PASS
					VH	6.58	0.00921	PASS
		5	LCH	TN	VL	2.56	0.00365	PASS
					VN	6.97	0.00994	PASS
					VH	2.19	0.00312	PASS
			MCH	TN	VL	0.09	0.00013	PASS
					VN	1.39	0.00196	PASS
					VH	1.44	0.00204	PASS
			HCH	TN	VL	1.47	0.00206	PASS
					VN	1.89	0.00265	PASS
					VH	1.49	0.00209	PASS
		10	LCH	TN	VL	-0.29	-0.00041	PASS
					VN	0.76	0.00108	PASS
					VH	-0.84	-0.00119	PASS
			MCH	TN	VL	-3.32	-0.00469	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					VN	0.51	0.00072	PASS			
					VH	-2.30	-0.00325	PASS			
					VL	2.52	0.00354	PASS			
			HCH	TN	VN	-0.21	-0.0003	PASS			
					VH	0.59	0.00083	PASS			
					VL	-1.17	-0.00167	PASS			
			1.4	LCH	TN	VN	-1.23	-0.00176	PASS		
						VH	-11.93	-0.01705	PASS		
						MCH	TN	VL	-3.62	-0.00512	PASS
								VN	0.64	0.0009	PASS
								VH	-0.76	-0.00107	PASS
						HCH	TN	VL	-2.47	-0.00345	PASS
	VN			9.00	0.01258			PASS			
	VH			14.88	0.0208			PASS			
				3	LCH	TN	VL	0.96	0.00137	PASS	
							VN	-1.97	-0.00281	PASS	
							VH	-0.39	-0.00056	PASS	
							MCH	TN	VL	9.40	0.01329
		VN	6.72						0.0095	PASS	
		VH	-0.17						-0.00024	PASS	
		HCH	TN		VL	4.18	0.00585	PASS			
					VN	-5.19	-0.00726	PASS			
					VH	-3.76	-0.00526	PASS			
			5		LCH	TN	VL	0.19	0.00027	PASS	
							VN	0.72	0.00103	PASS	
							VH	1.33	0.0019	PASS	
	MCH			TN			VL	0.33	0.00047	PASS	
							VN	0.54	0.00076	PASS	
							VH	-3.69	-0.00522	PASS	
	HCH			TN	VL	1.26	0.00177	PASS			
					VN	-1.29	-0.00181	PASS			
					VH	0.64	0.0009	PASS			
				10	LCH	TN	VL	1.13	0.00161	PASS	
							VN	-0.53	-0.00075	PASS	
							VH	-9.47	-0.01345	PASS	
		MCH	TN				VL	3.86	0.00546	PASS	
							VN	-0.06	-0.00008	PASS	
							VH	0.20	0.00028	PASS	
		HCH	TN		VL	-0.17	-0.00024	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.54	0.00076	PASS
					VH	-0.44	-0.00062	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
BAND12	LTE/TM1	1.4	LCH	VN	-30	-4.19	-0.01002	PASS
					-20	2.52	0.00557	PASS
					-10	12.28	0.01952	PASS
					0	17.87	0.02751	PASS
					10	-17.97	-0.02372	PASS
					20	-12.7	-0.01618	PASS
					30	-1.79	-0.00059	PASS
					40	-0.46	0.00131	PASS
					50	-3.69	-0.00331	PASS
			MCH	VN	-30	3.09	0.00631	PASS
					-20	-5.92	-0.00643	PASS
					-10	-4.6	-0.00456	PASS
					0	-19.71	-0.02592	PASS
					10	-4.65	-0.00463	PASS
					20	5.08	0.00912	PASS
					30	6.67	0.01137	PASS
					40	-12.03	-0.01506	PASS
					50	-0.81	0.0008	PASS
		HCH	VN	-30	0.03	0.00196	PASS	
				-20	-1.44	-0.0001	PASS	
				-10	-2.74	-0.00191	PASS	
				0	4.65	0.00842	PASS	
				10	-4.53	-0.00442	PASS	
				20	-0.46	0.00127	PASS	
				30	-4.26	-0.00404	PASS	
				40	8.04	0.01316	PASS	
				50	2.99	0.0061	PASS	
3	LCH	VN	-30	-3.66	-0.00326	PASS		
			-20	-4.95	-0.0051	PASS		
			-10	-6.59	-0.00744	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					0	-4.25	-0.0041	PASS		
					10	-1.87	-0.00071	PASS		
					20	-1.9	-0.00075	PASS		
					30	-2.2	-0.00118	PASS		
					40	9.31	0.01525	PASS		
					50	0.8	0.00311	PASS		
			MCH	VN	-30	-1.93	-0.00079	PASS		
					-20	-2.83	-0.00206	PASS		
					-10	-3.85	-0.0035	PASS		
					0	-5.71	-0.00613	PASS		
					10	-1.34	0.00005	PASS		
					20	4.98	0.00898	PASS		
					30	-2.66	-0.00182	PASS		
			HCH	VN	40	-1.93	-0.00079	PASS		
					50	-0.16	0.00172	PASS		
					-30	-6.51	-0.00719	PASS		
					-20	1.08	0.00343	PASS		
					-10	-7.28	-0.00827	PASS		
					0	-2.01	-0.00089	PASS		
					10	-4.22	-0.00399	PASS		
			5	LCH	VN	20	-1.24	0.00018	PASS	
		30				0.12	0.00209	PASS		
		40				-4.85	-0.00487	PASS		
		50				-4.46	-0.00432	PASS		
		-30				0.17	0.0022	PASS		
		MCH		VN	-20	-1.93	-0.00079	PASS		
					-10	-4.63	-0.00464	PASS		
					0	-4.33	-0.00421	PASS		
					10	-0.93	0.00064	PASS		
					20	-3.46	-0.00297	PASS		
							30	0.59	0.0028	PASS
							40	-4.07	-0.00384	PASS
							50	-4.49	-0.00444	PASS
							-30	-1.4	-4E-05	PASS
							-20	-0.96	0.00058	PASS
							-10	-1.31	0.00009	PASS
							0	-5.61	-0.00599	PASS
							10	-3.76	-0.00337	PASS
							20	-2.53	-0.00163	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-2.37	-0.00141	PASS		
					40	-1.89	-0.00073	PASS		
					50	-1.36	0.00002	PASS		
			HCH	VN	-30	-1.67	-0.00042	PASS		
					-20	-0.08	0.00181	PASS		
					-10	-0.93	0.00062	PASS		
					0	-2.42	-0.00147	PASS		
					10	-3.5	-0.00298	PASS		
					20	-2.26	-0.00125	PASS		
					30	-2.6	-0.00172	PASS		
					40	-1.41	-0.00005	PASS		
					50	-2.53	-0.00162	PASS		
					LCH	VN	-30	-7.28	-0.00839	PASS
							-20	-4.22	-0.00404	PASS
							-10	-8.32	-0.00987	PASS
		0	-9.73	-0.01187			PASS			
		10	-5.83	-0.00633			PASS			
		20	-1.84	-0.00066			PASS			
		30	-6.79	-0.00769			PASS			
		40	-2.94	-0.00222			PASS			
		50	-5.05	-0.00522			PASS			
		MCH	VN	-30	-1.19	0.00026	PASS			
				-20	-1.26	0.00016	PASS			
				-10	-0.23	0.00162	PASS			
				0	0.09	0.00207	PASS			
				10	-0.58	0.00112	PASS			
				20	-1.96	-0.00083	PASS			
				30	-3.65	-0.00322	PASS			
				40	-0.27	0.00156	PASS			
				50	-0.34	0.00146	PASS			
		HCH	VN	-30	0.2	0.00221	PASS			
				-20	-3.85	-0.00348	PASS			
				-10	1.38	0.00387	PASS			
				0	-1.83	-0.00064	PASS			
				10	1.23	0.00366	PASS			
				20	-1.71	-0.00047	PASS			
				30	-1.8	-0.0006	PASS			
				40	0.17	0.00217	PASS			
				50	-0.16	0.00171	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	VN	-30	0.39	0.00252	PASS
					-20	-9.81	-0.01205	PASS
					-10	-44.9	-0.0622	PASS
					0	-4.17	-0.00399	PASS
					10	3.13	0.00644	PASS
					20	21.07	0.03208	PASS
					30	-4.7	-0.00475	PASS
					40	7.46	0.01263	PASS
					50	5.75	0.01018	PASS
			MCH	VN	-30	-2.99	-0.00228	PASS
					-20	13.05	0.02039	PASS
					-10	0.89	0.0032	PASS
					0	-2.76	-0.00196	PASS
					10	7.73	0.01287	PASS
					20	-5.76	-0.0062	PASS
					30	13.22	0.02063	PASS
					40	-15.89	-0.02052	PASS
					50	2.78	0.00587	PASS
			HCH	VN	-30	5.6	0.00975	PASS
					-20	6.8	0.01142	PASS
					-10	2.98	0.00608	PASS
					0	1.98	0.00468	PASS
					10	6.45	0.01093	PASS
					20	9.37	0.01502	PASS
		30			-2.4	-0.00144	PASS	
		40			4.88	0.00874	PASS	
		50			-5.48	-0.00574	PASS	
		3	LCH	VN	-30	-11.03	-0.01378	PASS
					-20	-3.35	-0.00282	PASS
					-10	-4.99	-0.00516	PASS
					0	-10.76	-0.0134	PASS
					10	-1.89	-0.00073	PASS
					20	-5.61	-0.00604	PASS
					30	-6.01	-0.00662	PASS
					40	-1.96	-0.00083	PASS
					50	2.86	0.00605	PASS
			MCH	VN	-30	-0.63	0.00105	PASS
					-20	-3.9	-0.00357	PASS
					-10	-1.94	-0.0008	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-5.65	-0.00604	PASS
					10	-0.58	0.00112	PASS
					20	-5.49	-0.00582	PASS
					30	1.45	0.00399	PASS
					40	-0.63	0.00105	PASS
					50	1.82	0.00451	PASS
			HCH	VN	-30	-2.73	-0.0019	PASS
					-20	2.18	0.00497	PASS
					-10	-0.41	0.00135	PASS
					0	0.19	0.00219	PASS
					10	0.32	0.00237	PASS
					20	-0.91	0.00065	PASS
					30	-6.85	-0.00767	PASS
					40	-2.7	-0.00186	PASS
		50	-7.78	-0.00897	PASS			
		5	LCH	VN	-30	-0.26	0.00159	PASS
					-20	10.33	0.01669	PASS
					-10	2.92	0.00612	PASS
					0	7.94	0.01328	PASS
					10	3.41	0.00682	PASS
					20	4.15	0.00788	PASS
					30	2.78	0.00592	PASS
					40	5.18	0.00935	PASS
			50	5.51	0.00982	PASS		
			MCH	VN	-30	0.29	0.00235	PASS
					-20	-1.34	0.00005	PASS
					-10	-1.66	-0.0004	PASS
					0	-0.01	0.00193	PASS
					10	-1.73	-0.0005	PASS
		20			-0.37	0.00142	PASS	
		30			-4.9	-0.00498	PASS	
		40			-0.18	0.00169	PASS	
		50	-2.82	-0.00204	PASS			
		HCH	VN	-30	-1.51	-0.00019	PASS	
				-20	0.13	0.0021	PASS	
				-10	-4.3	-0.0041	PASS	
				0	-1.49	-0.00017	PASS	
				10	-2.26	-0.00125	PASS	
				20	-0.53	0.00118	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-5.06	-0.00517	PASS		
					40	-1.64	-0.00038	PASS		
					50	-1.94	-0.0008	PASS		
		10	LCH	VN	-30	-7.44	-0.00862	PASS		
					-20	-2.06	-0.00097	PASS		
					-10	-1.57	-0.00028	PASS		
					0	-2.1	-0.00103	PASS		
					10	-1.49	-0.00016	PASS		
					20	-1.86	-0.00069	PASS		
					30	-2.67	-0.00184	PASS		
					40	-3.55	-0.00309	PASS		
					50	-2.54	-0.00166	PASS		
					MCH	VN	-30	-1.89	-0.00073	PASS
							-20	-3.02	-0.00233	PASS
							-10	0.39	0.00249	PASS
							0	-1.17	0.00029	PASS
							10	-0.97	0.00057	PASS
							20	-2.29	-0.0013	PASS
		30	-1.99	-0.00087			PASS			
		40	-1.69	-0.00045			PASS			
		HCH	VN	-30	0.16	0.00216	PASS			
				-20	0.52	0.00266	PASS			
				-10	-1.59	-0.00031	PASS			
				0	-1.04	0.00047	PASS			
				10	-1.3	0.0001	PASS			
				20	-1.89	-0.00073	PASS			
				30	-4.59	-0.00453	PASS			
				40	-1.07	0.00043	PASS			
		50	-1.04	0.00047	PASS					

END