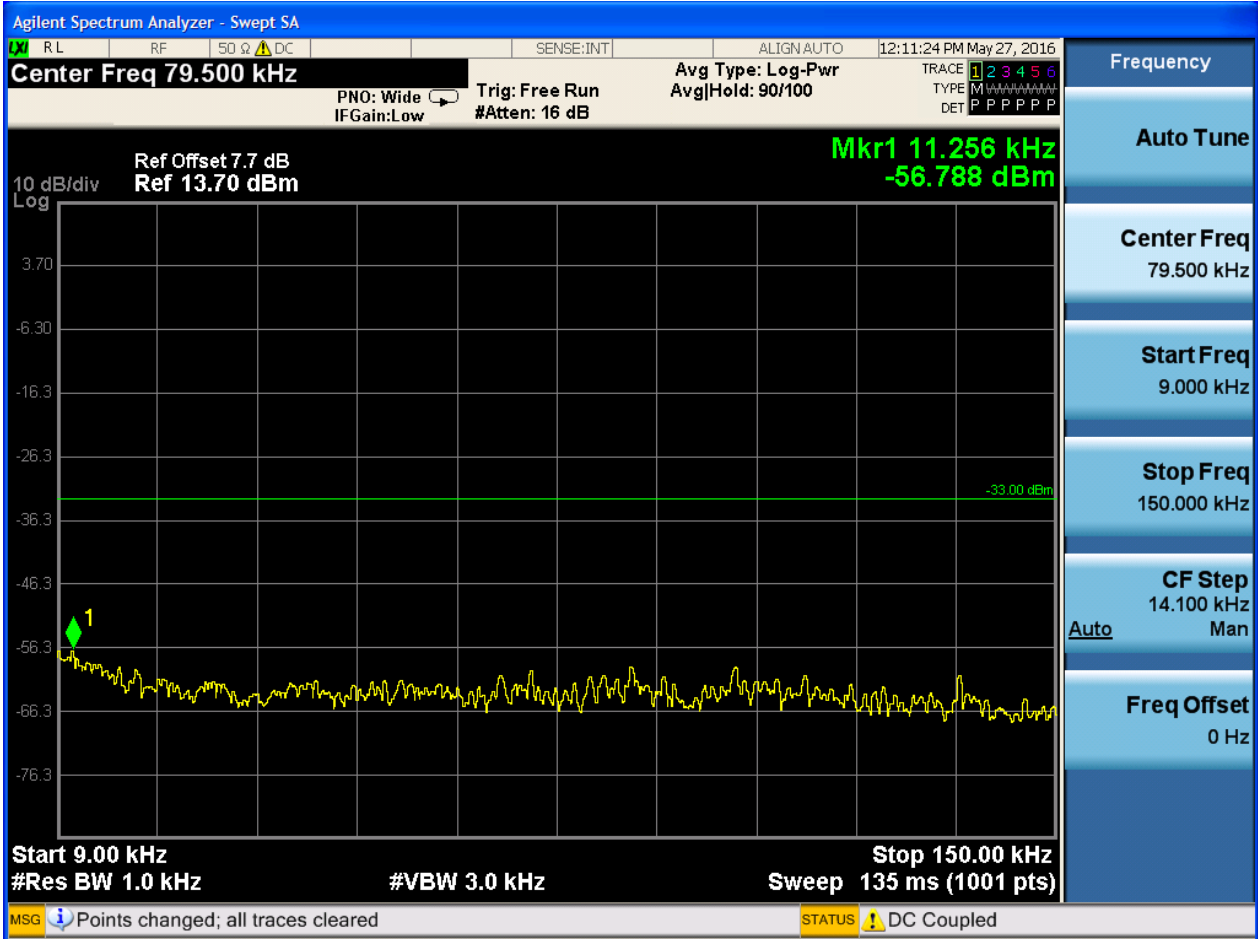
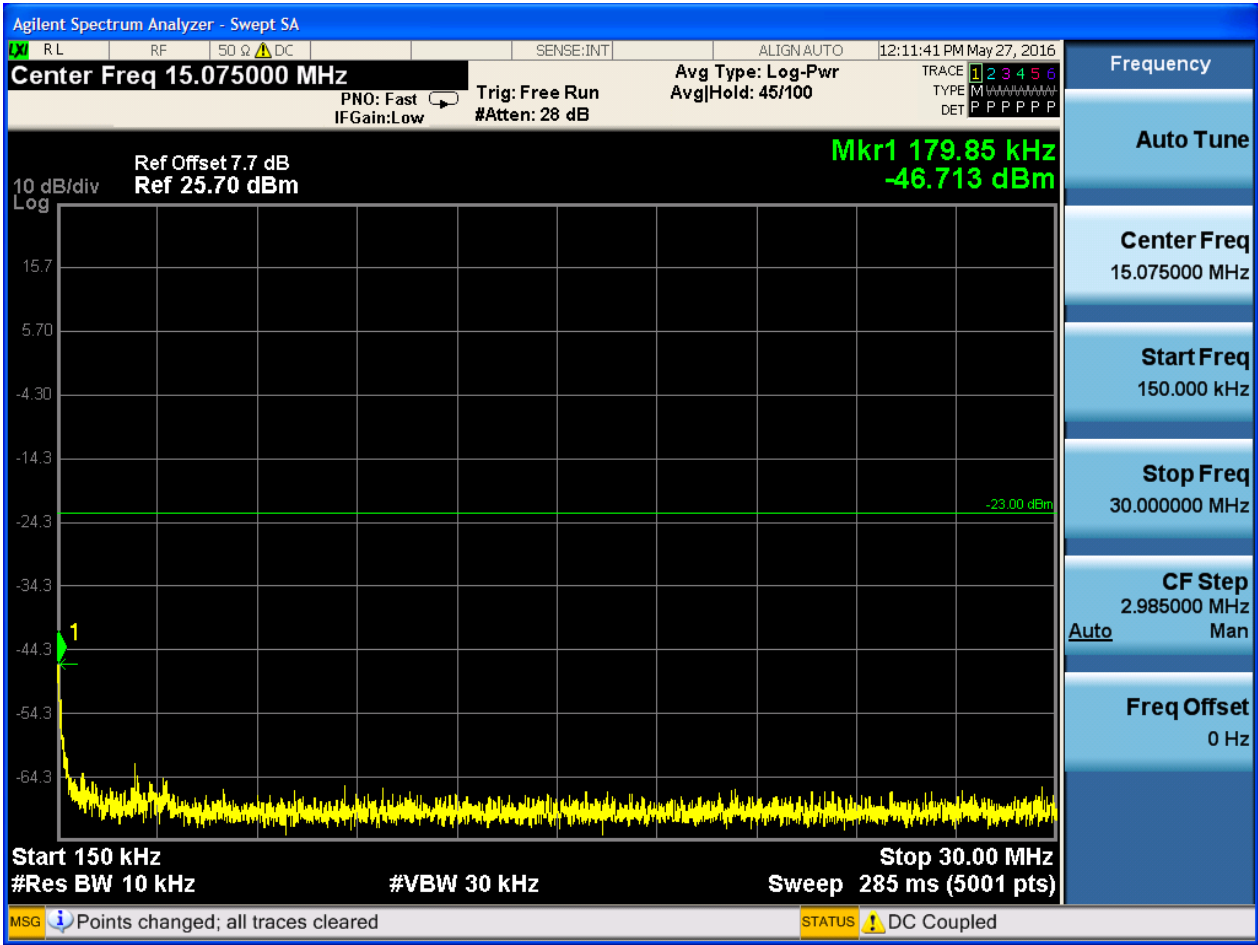


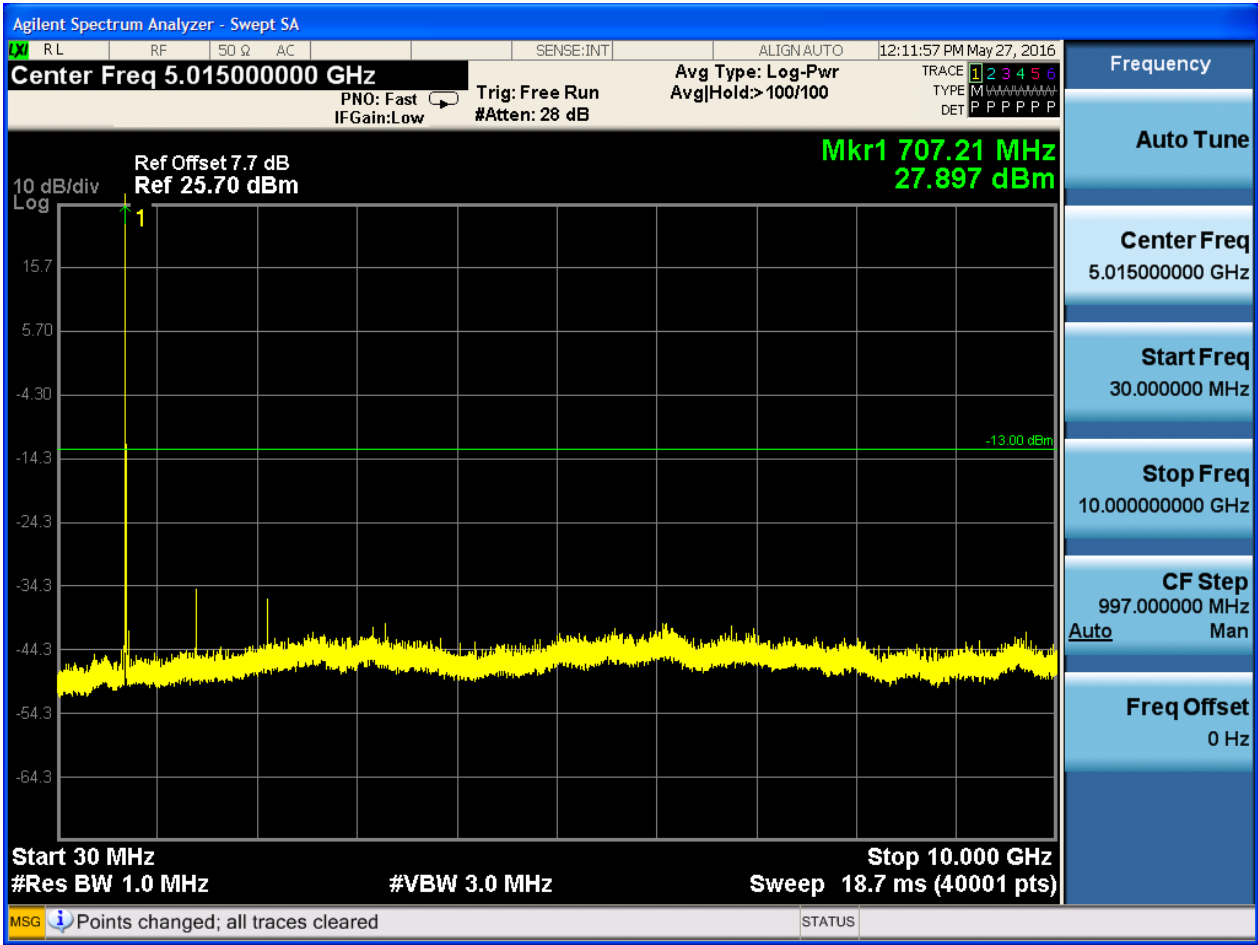


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0

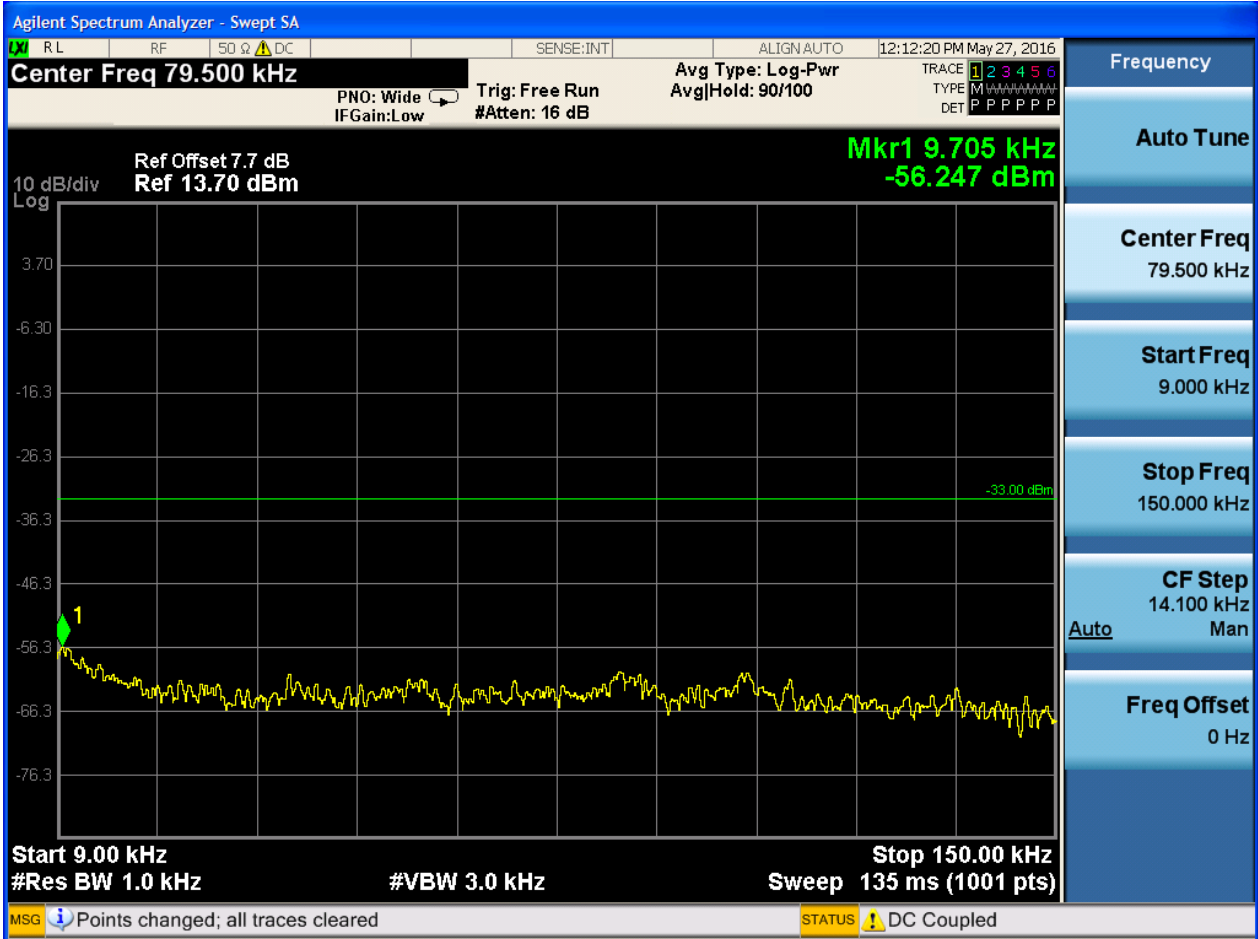


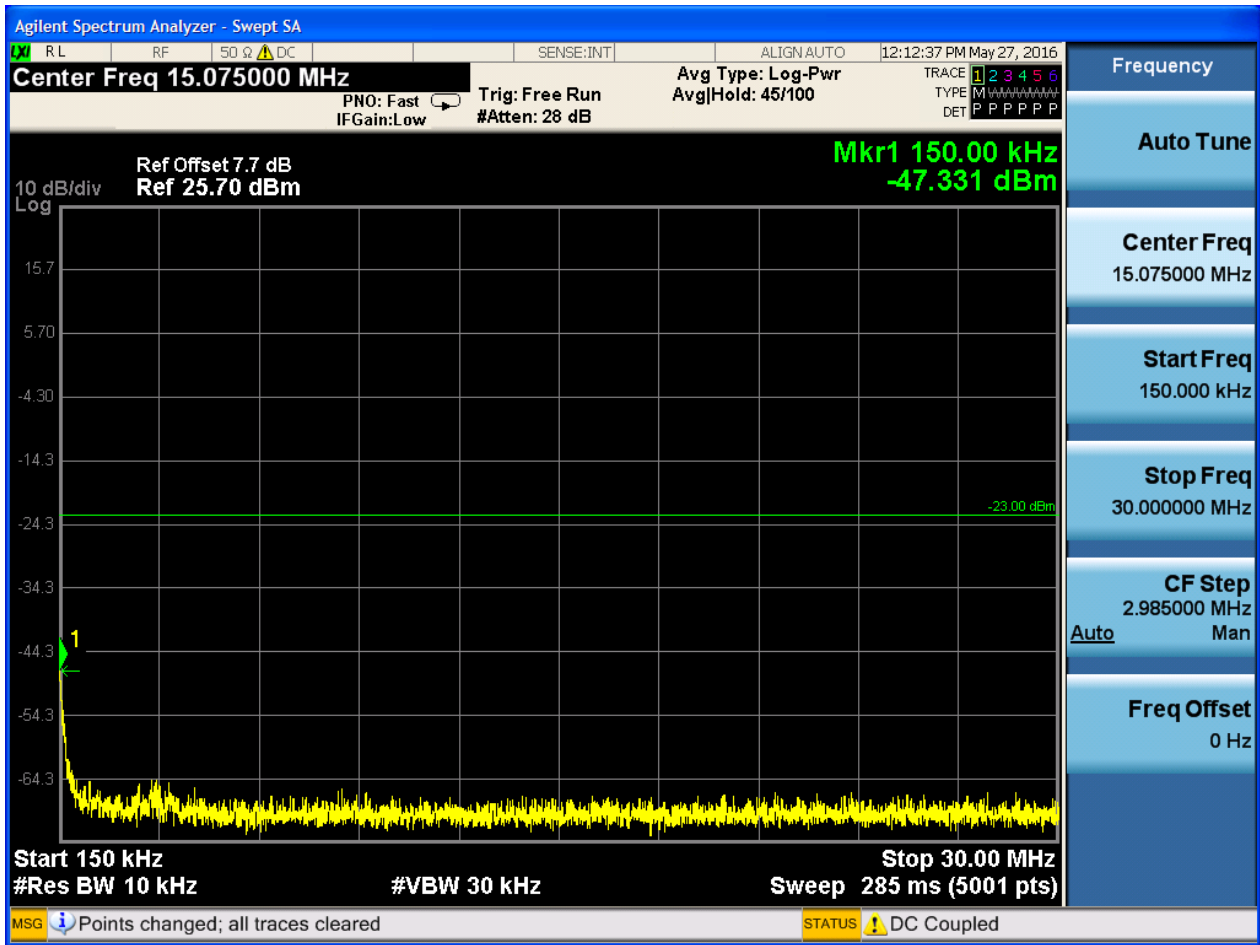


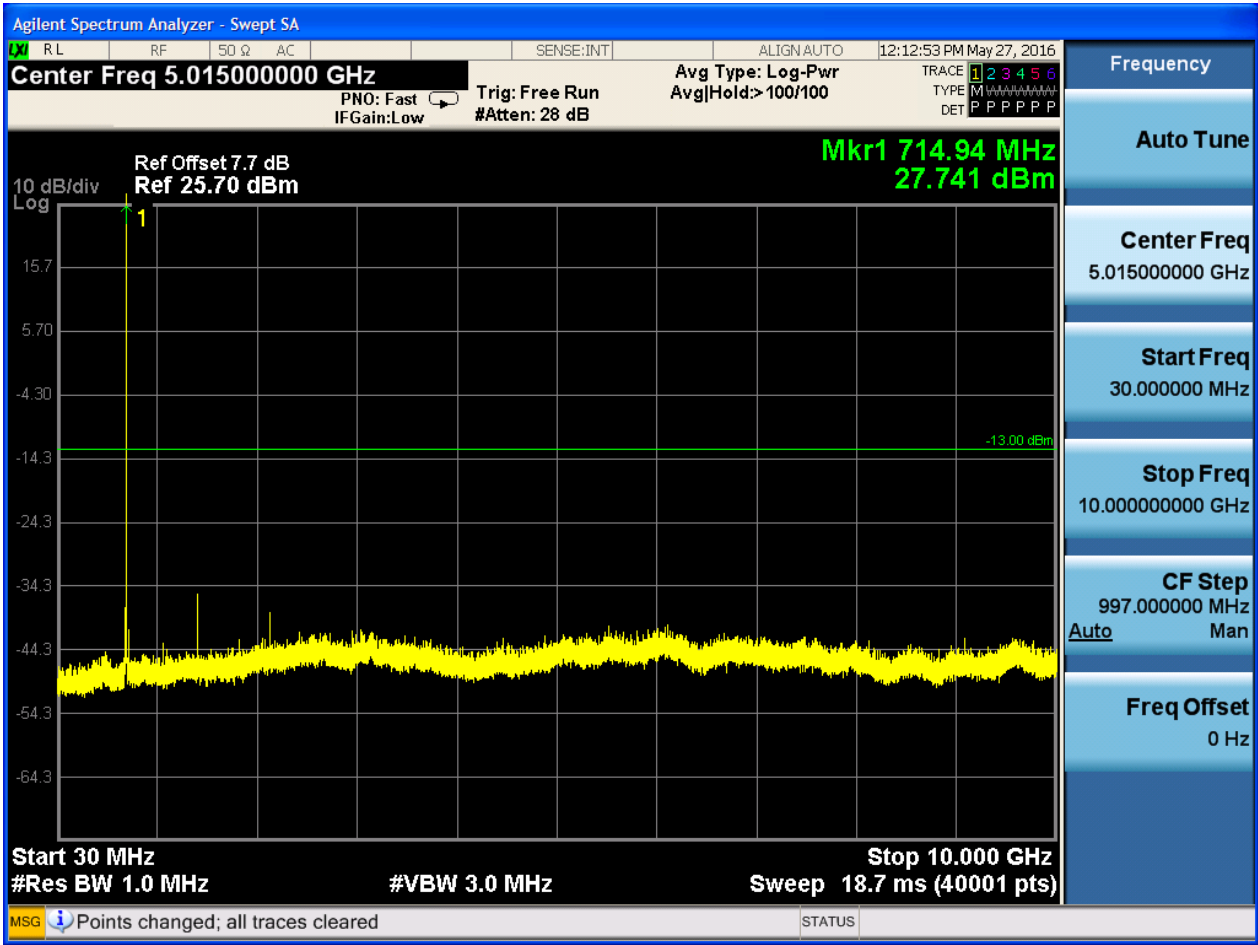


6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0





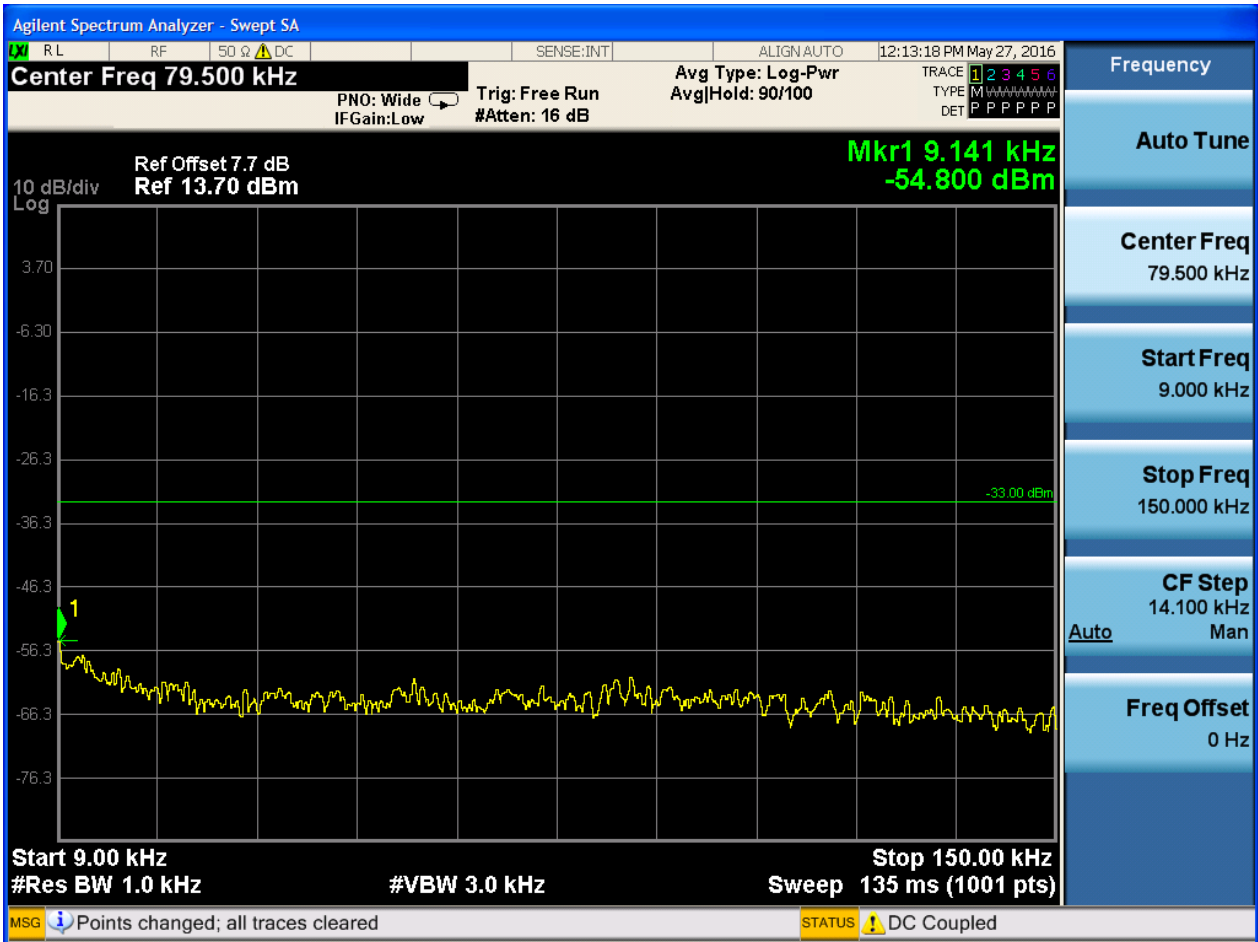




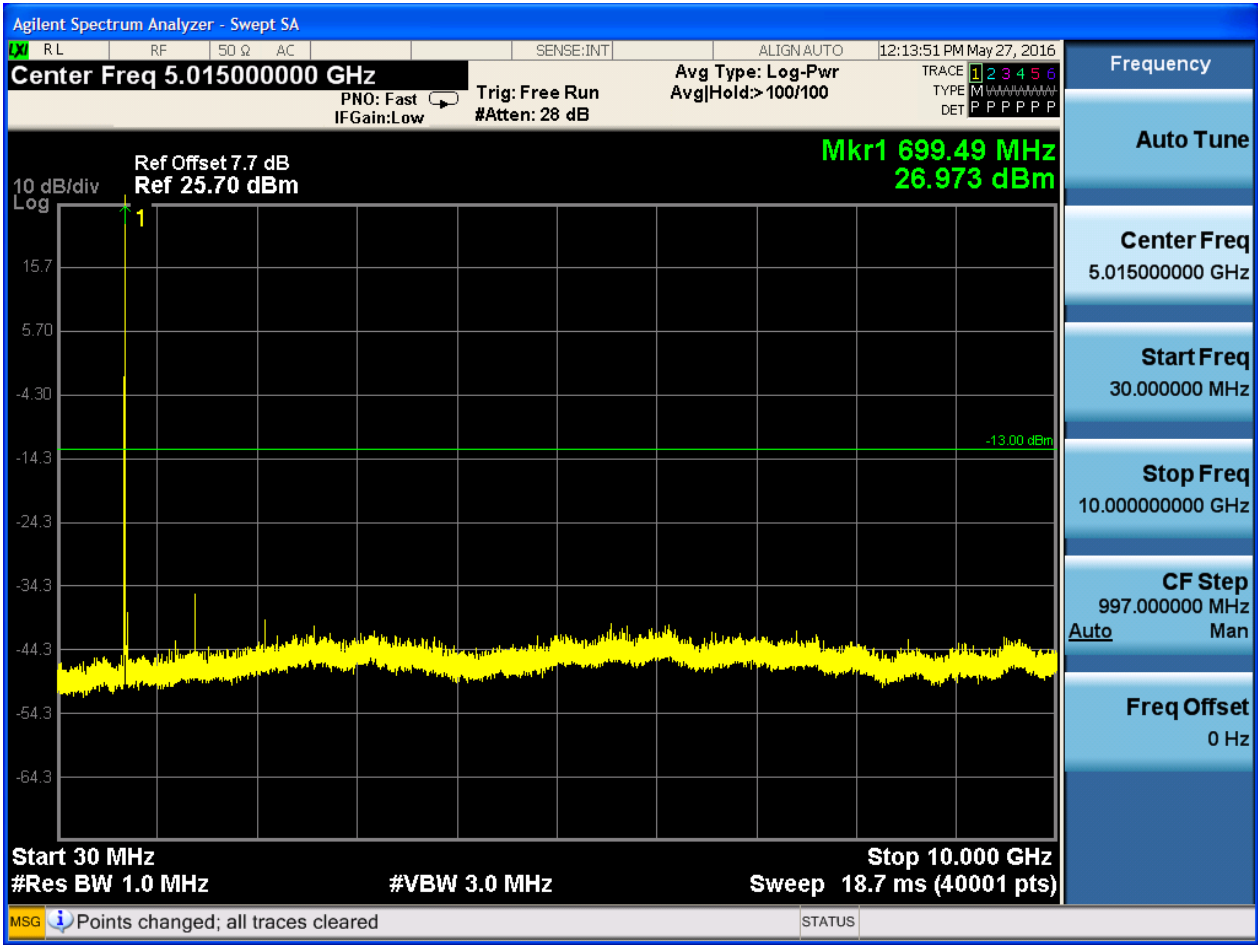
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



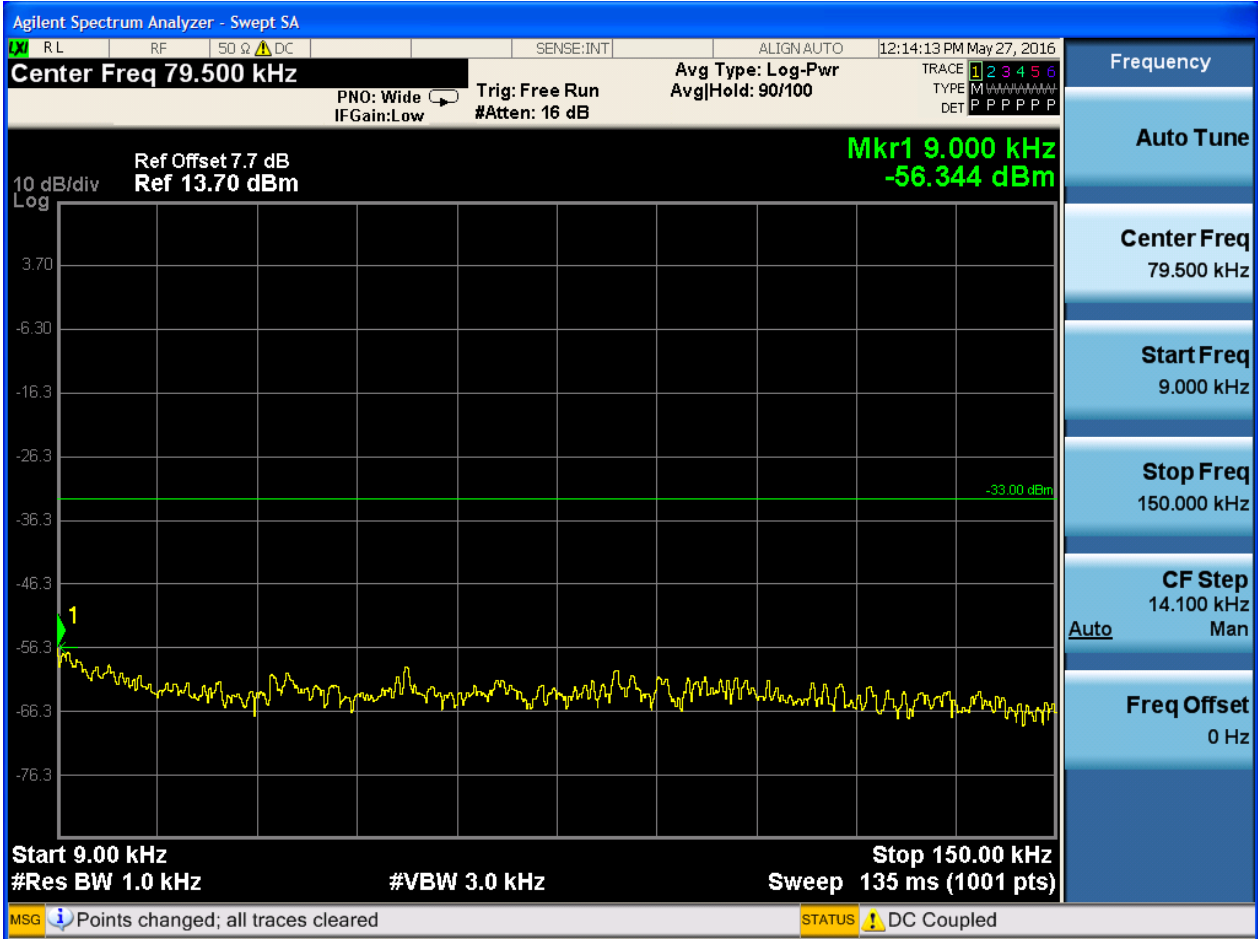


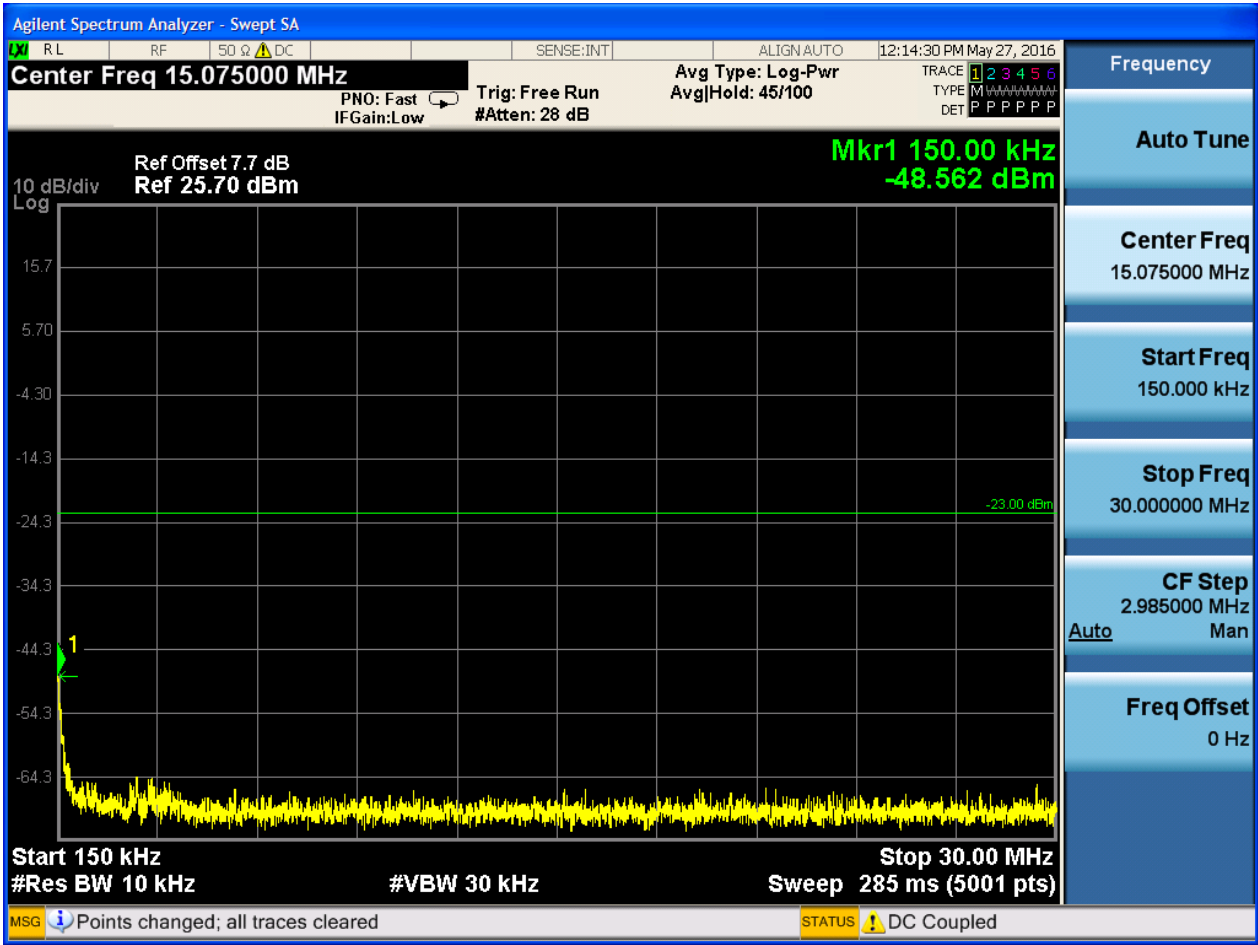


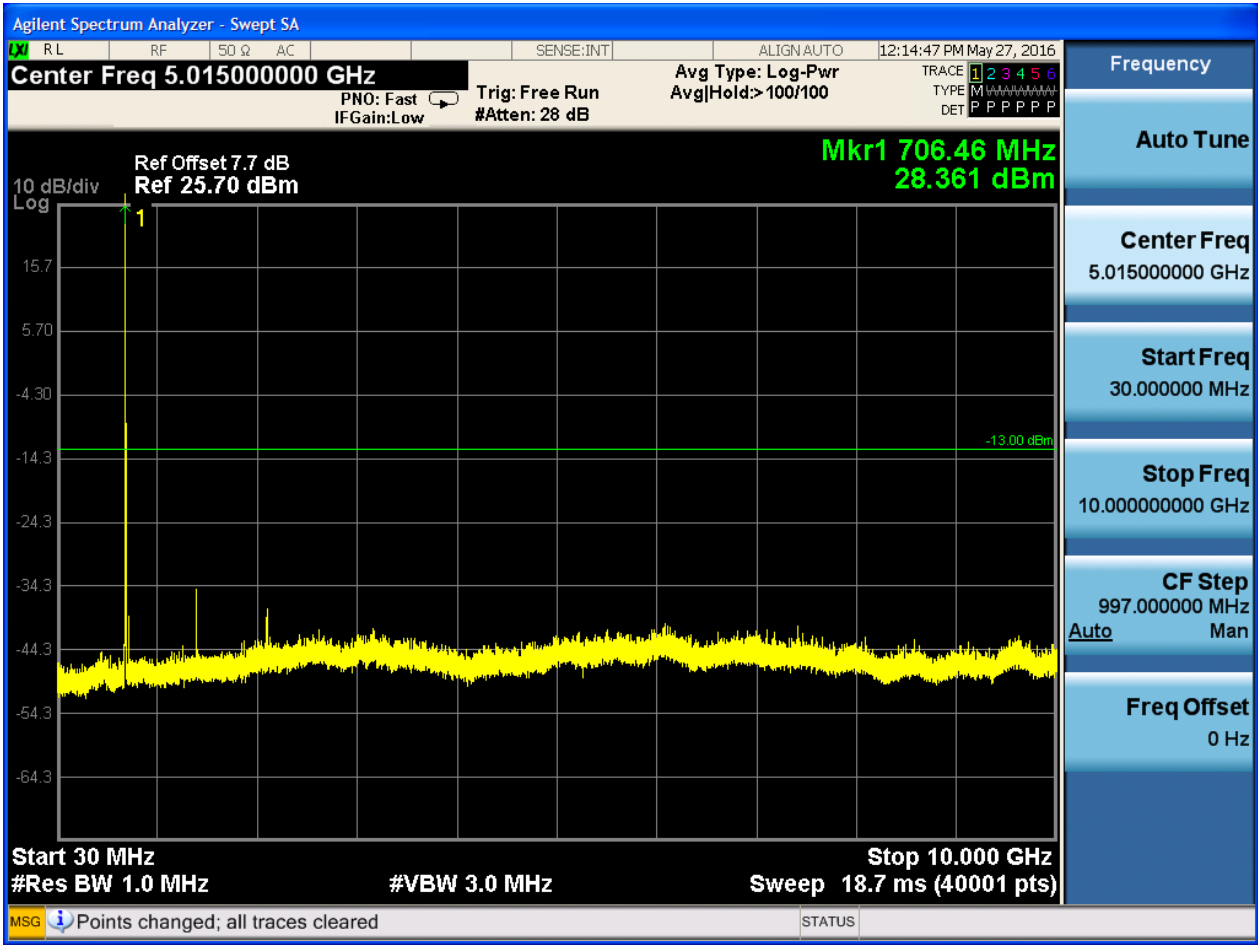


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



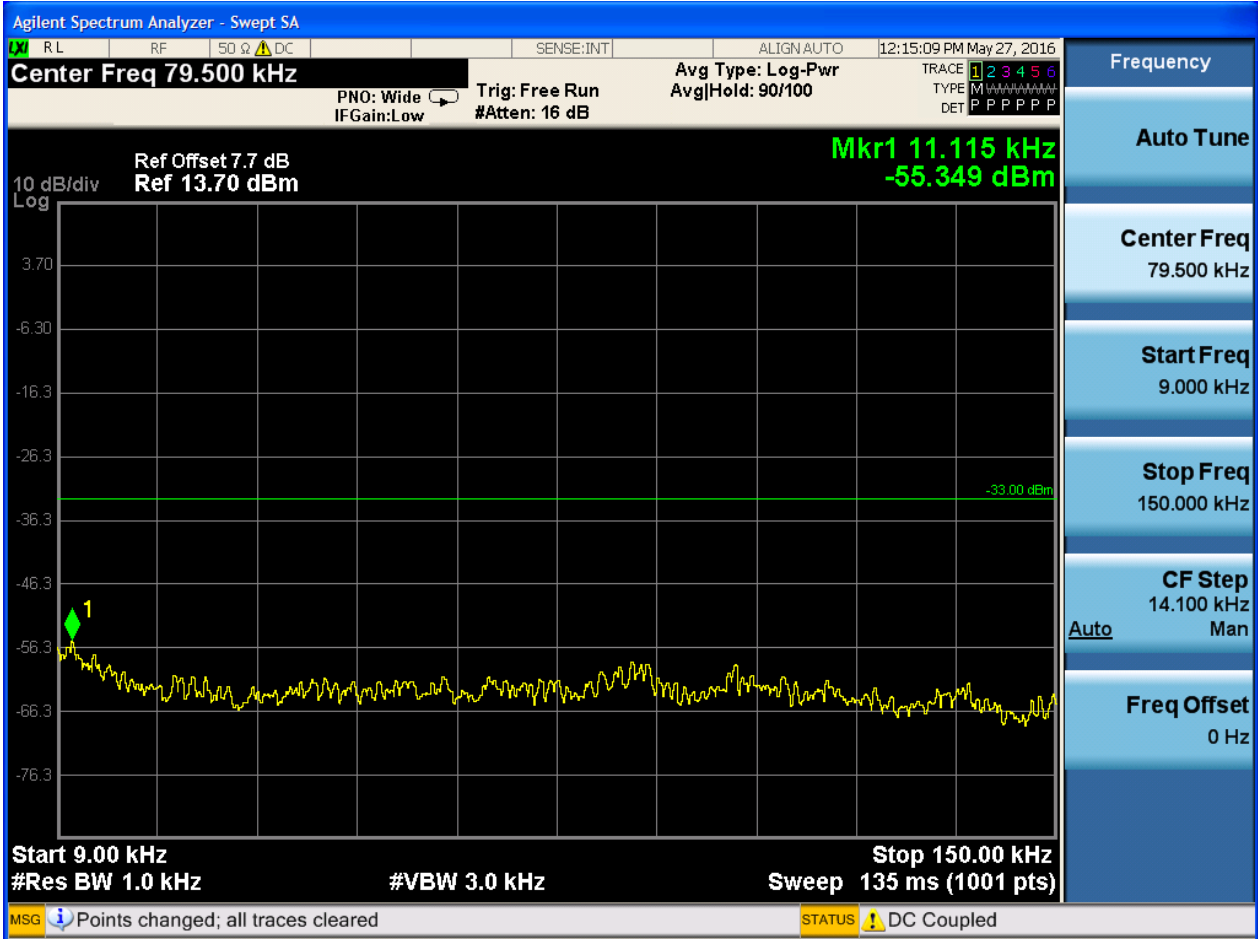


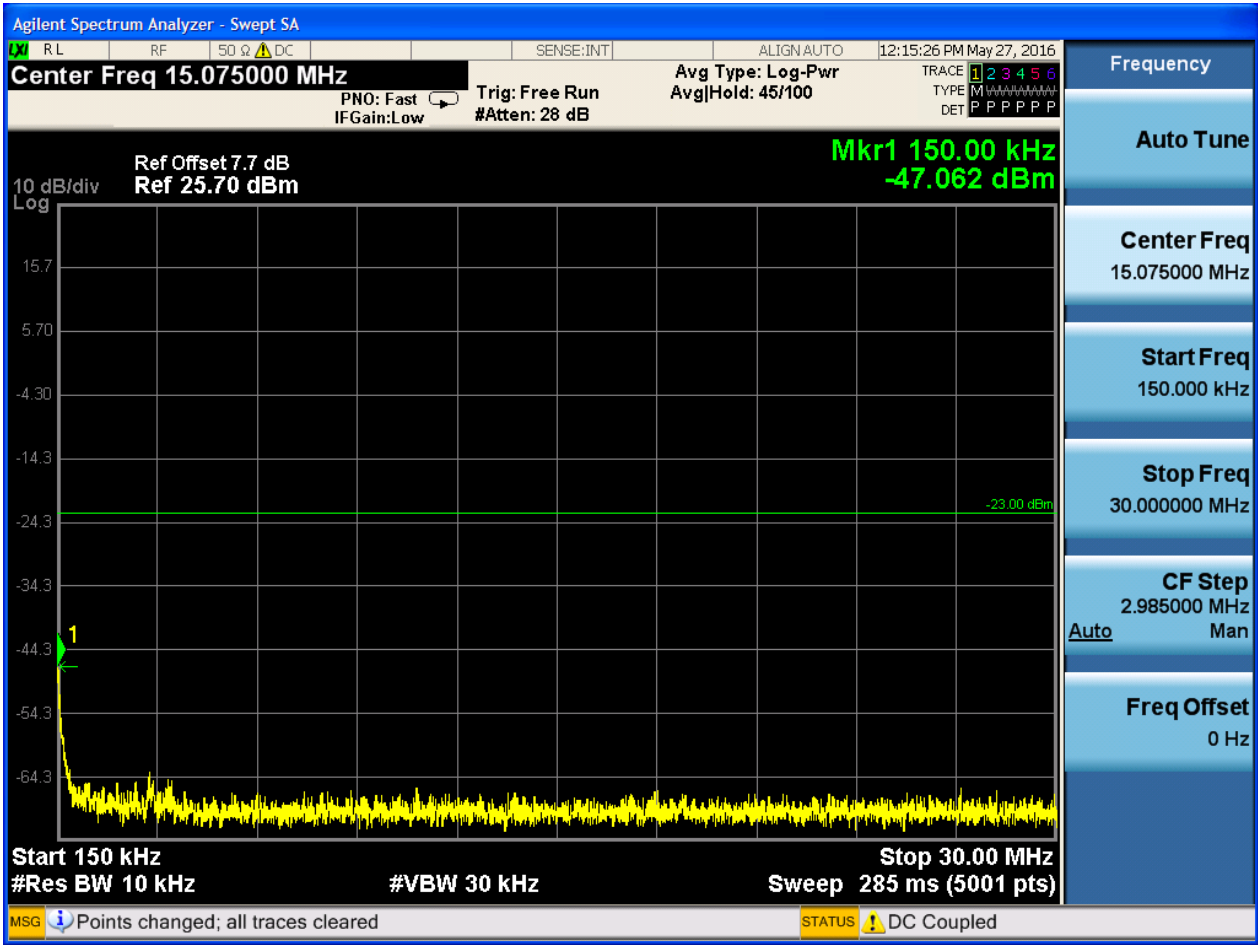


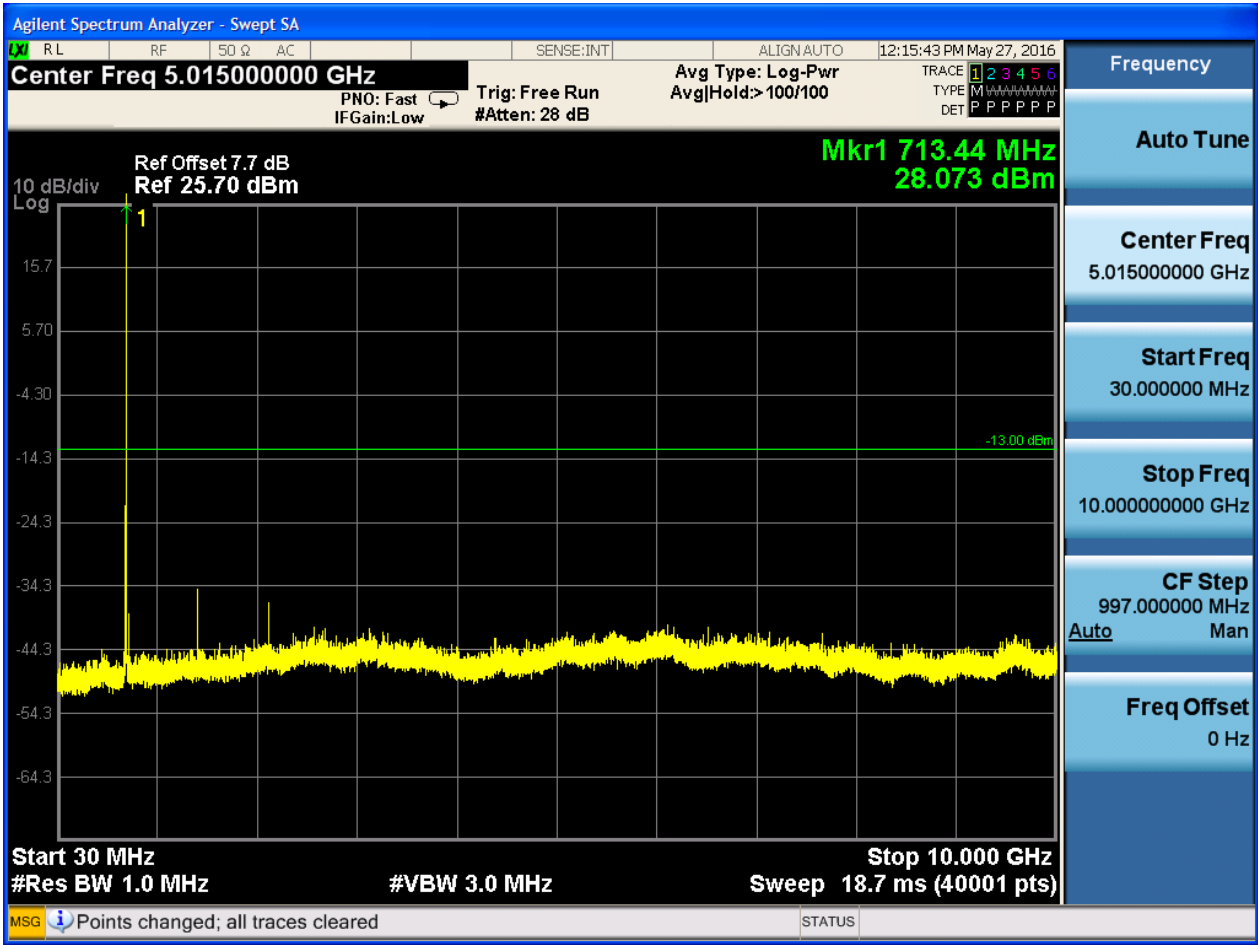


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





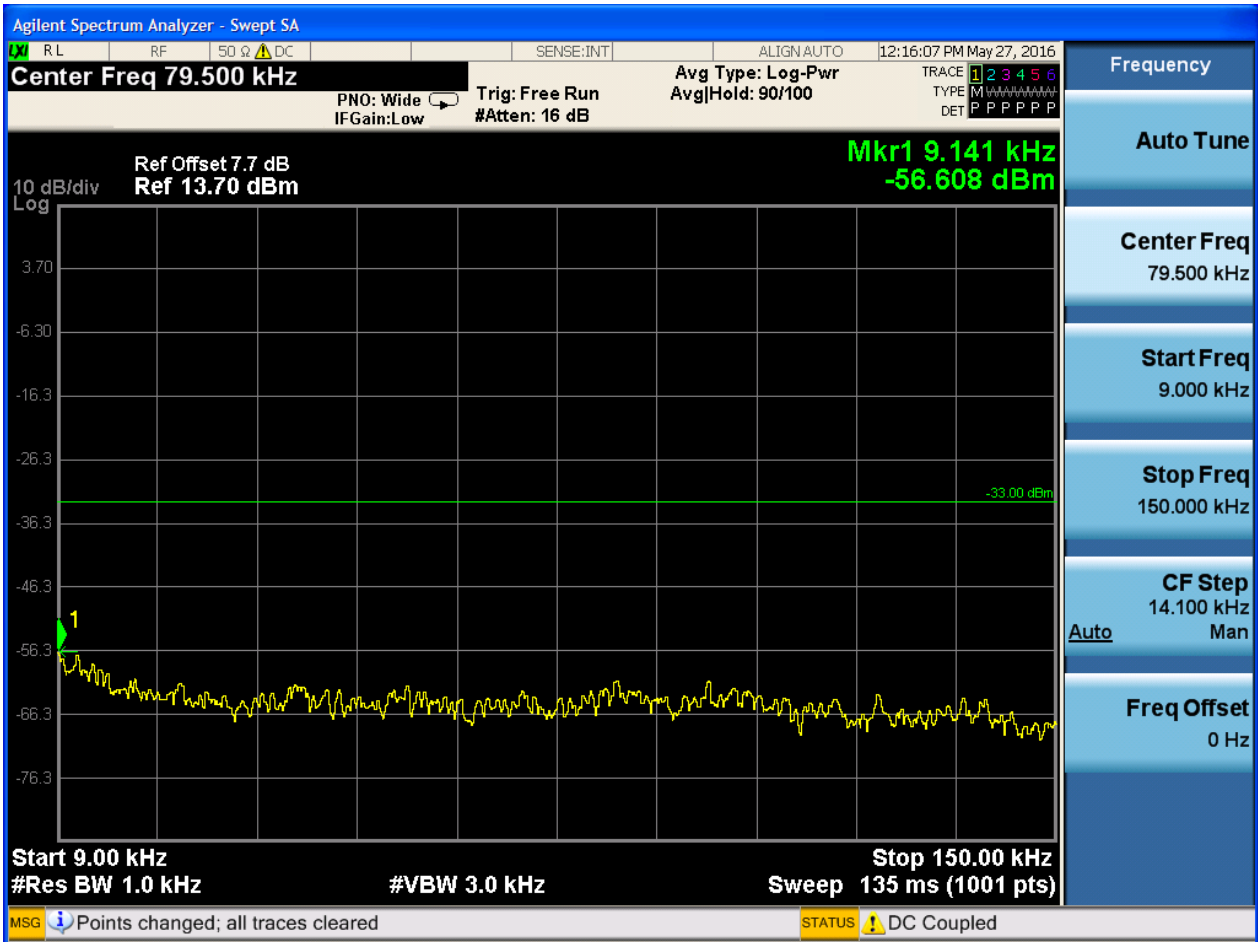


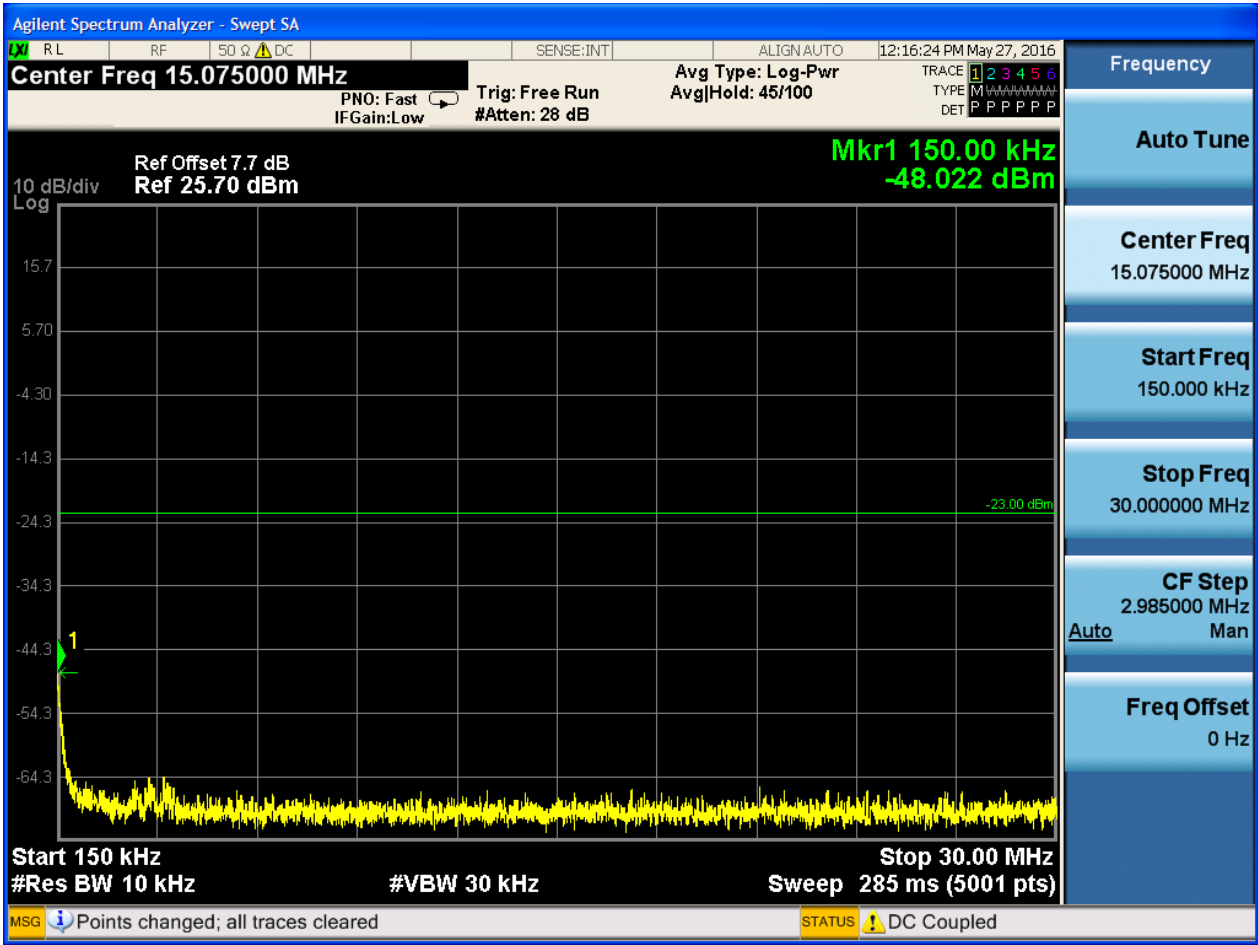


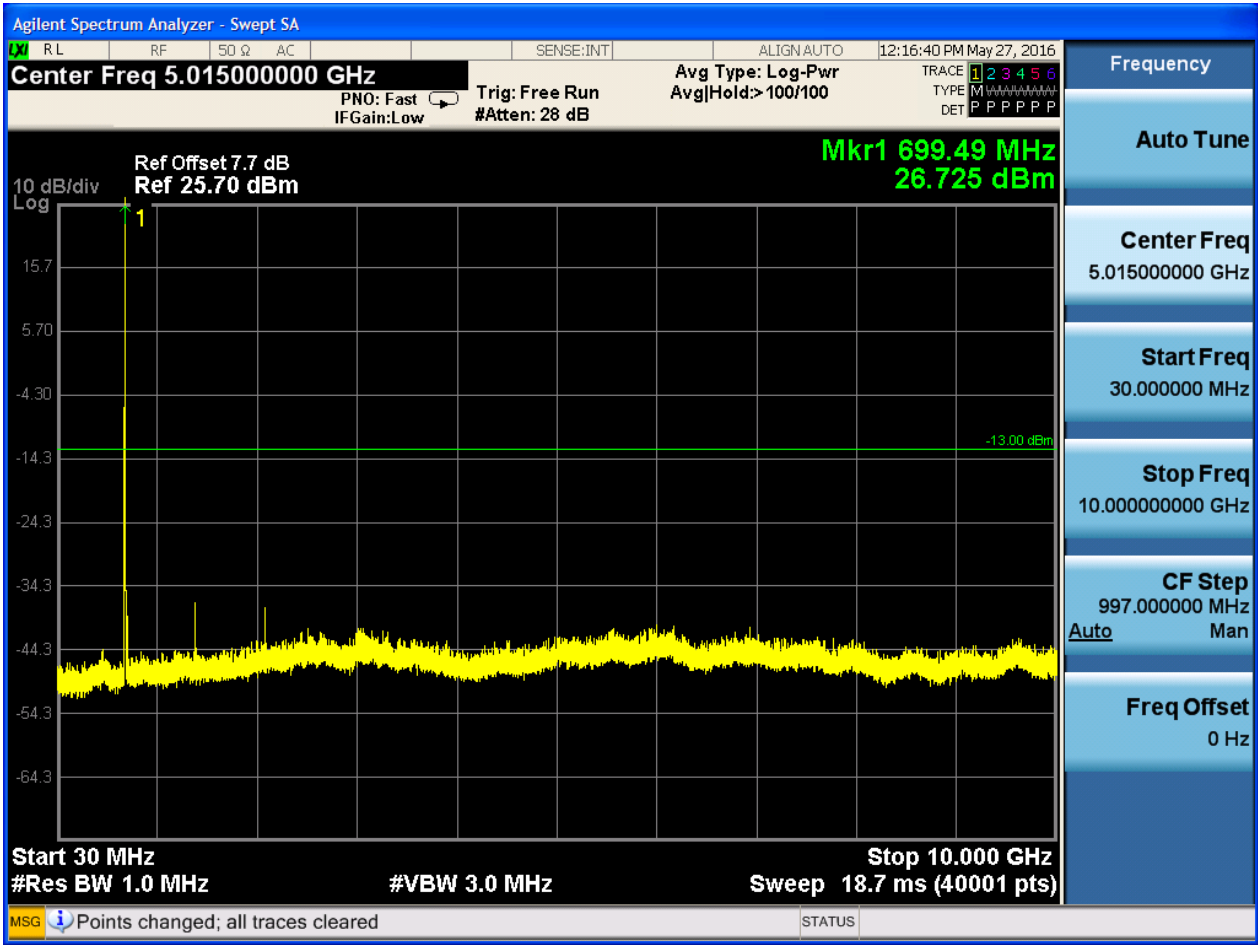
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



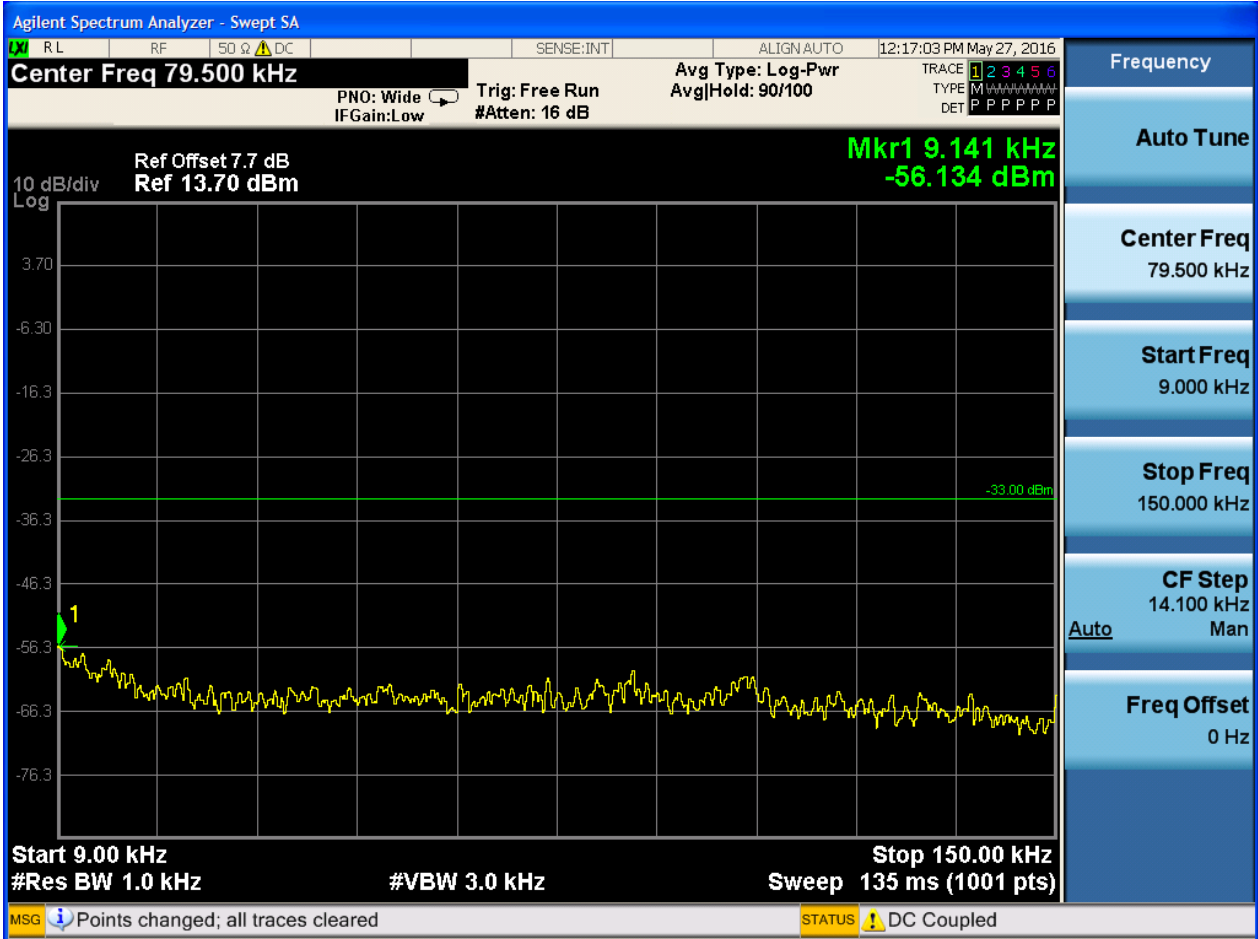


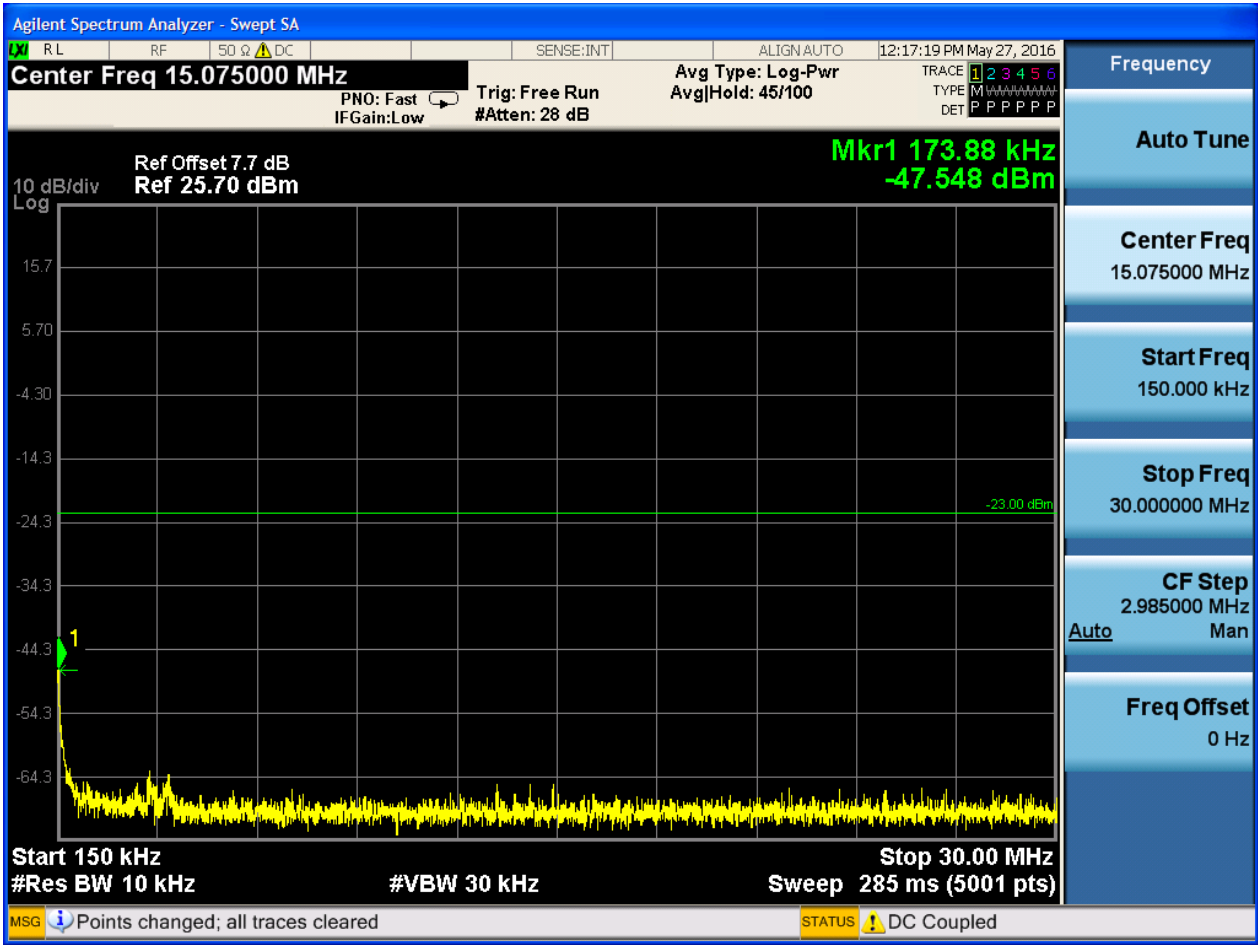


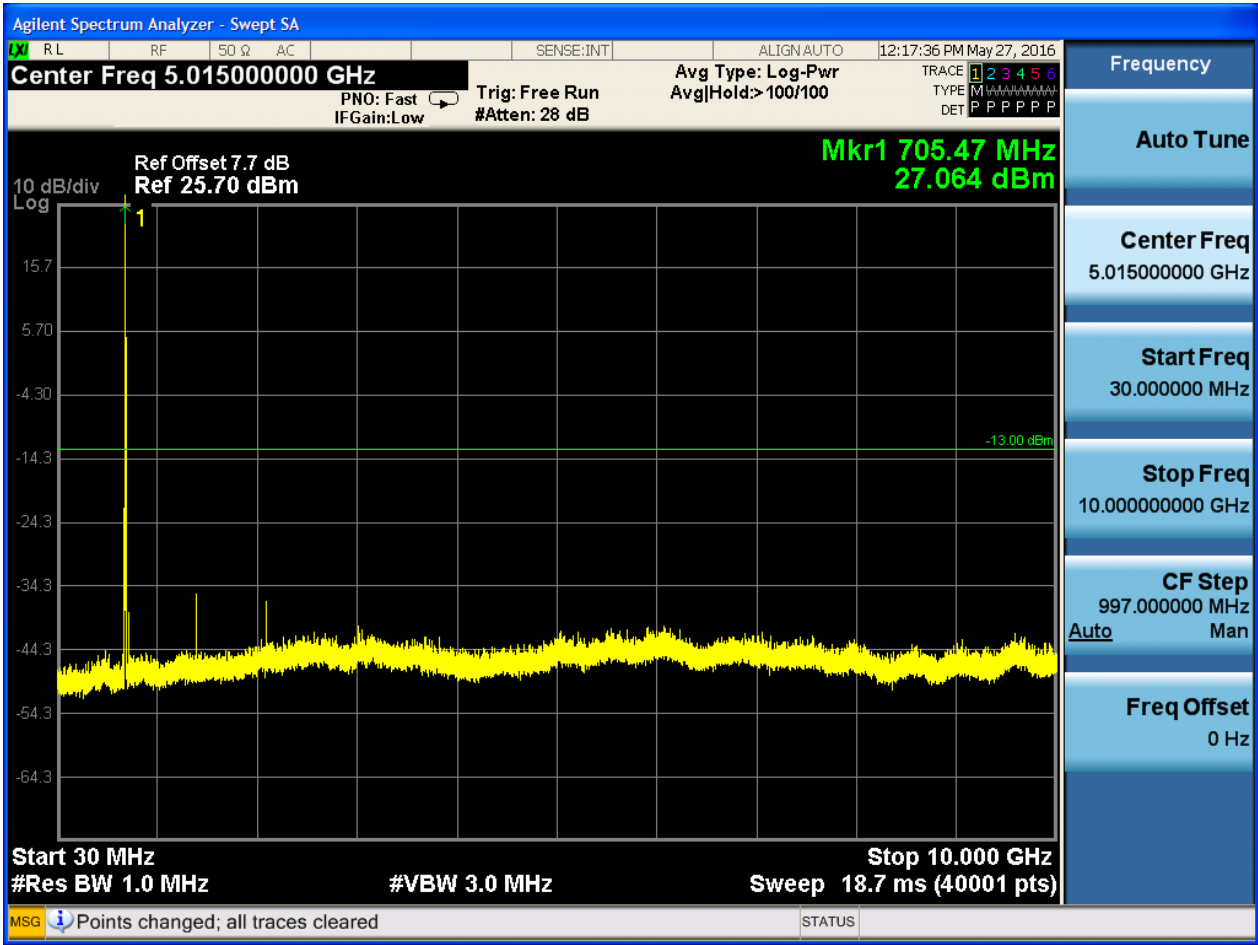


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



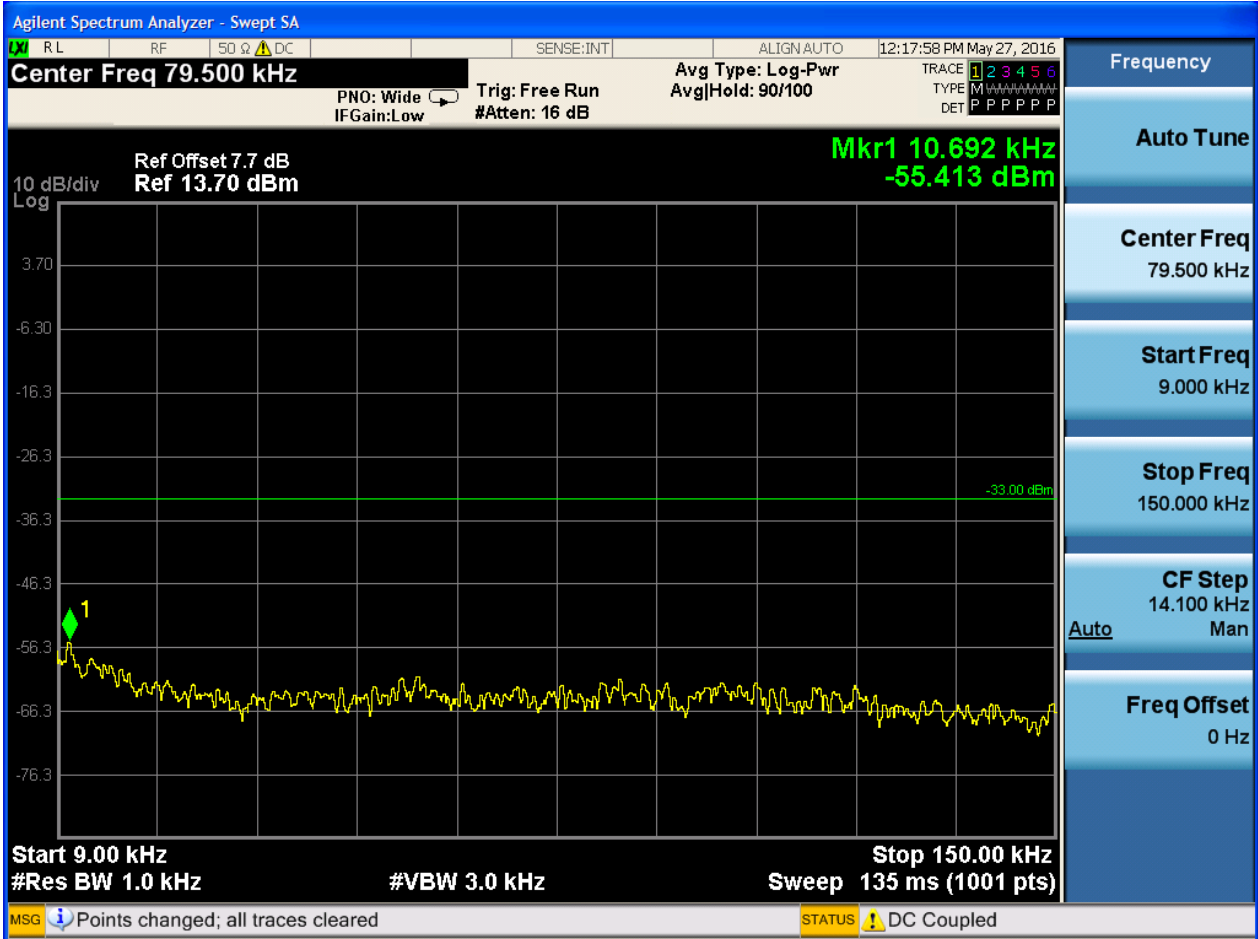




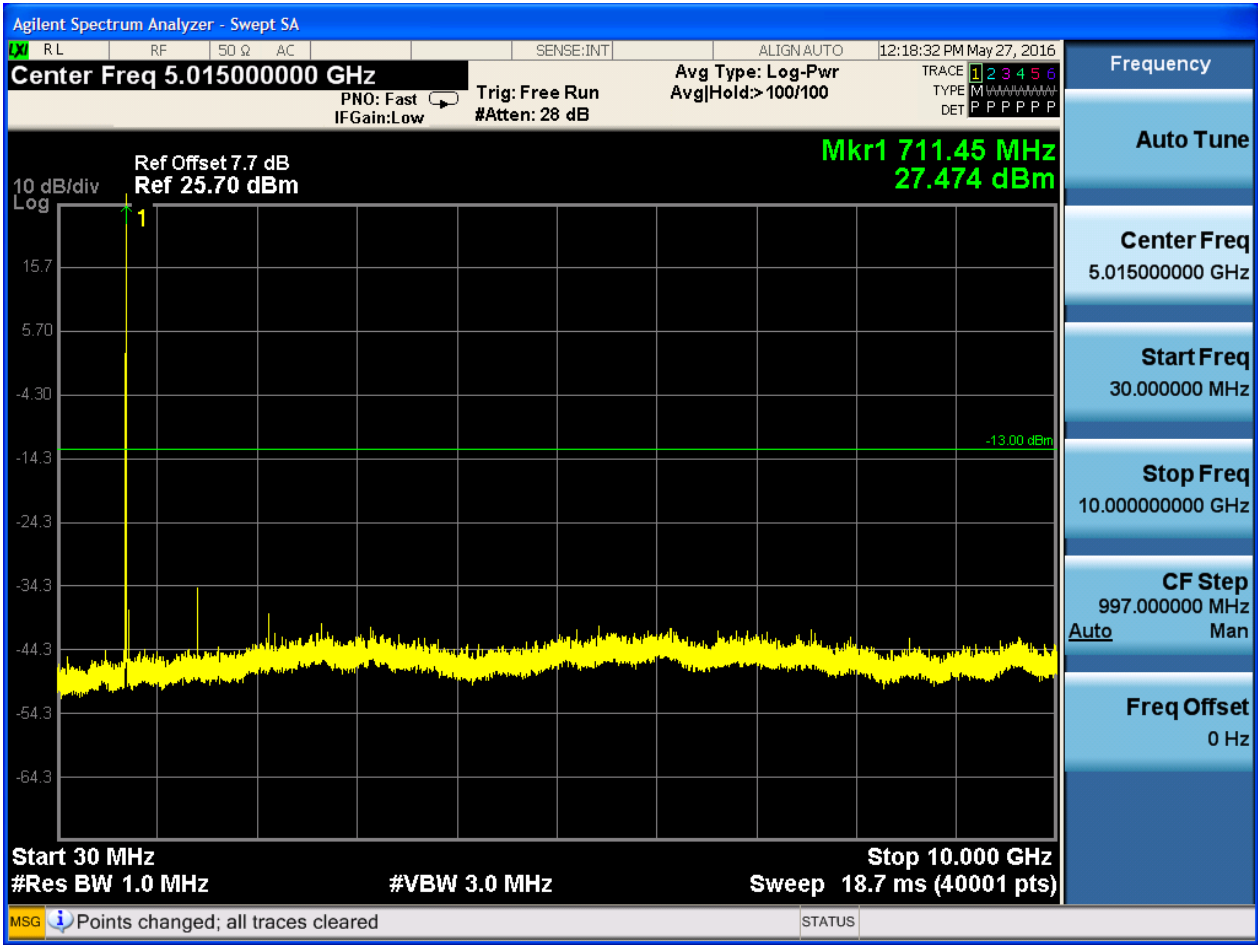


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





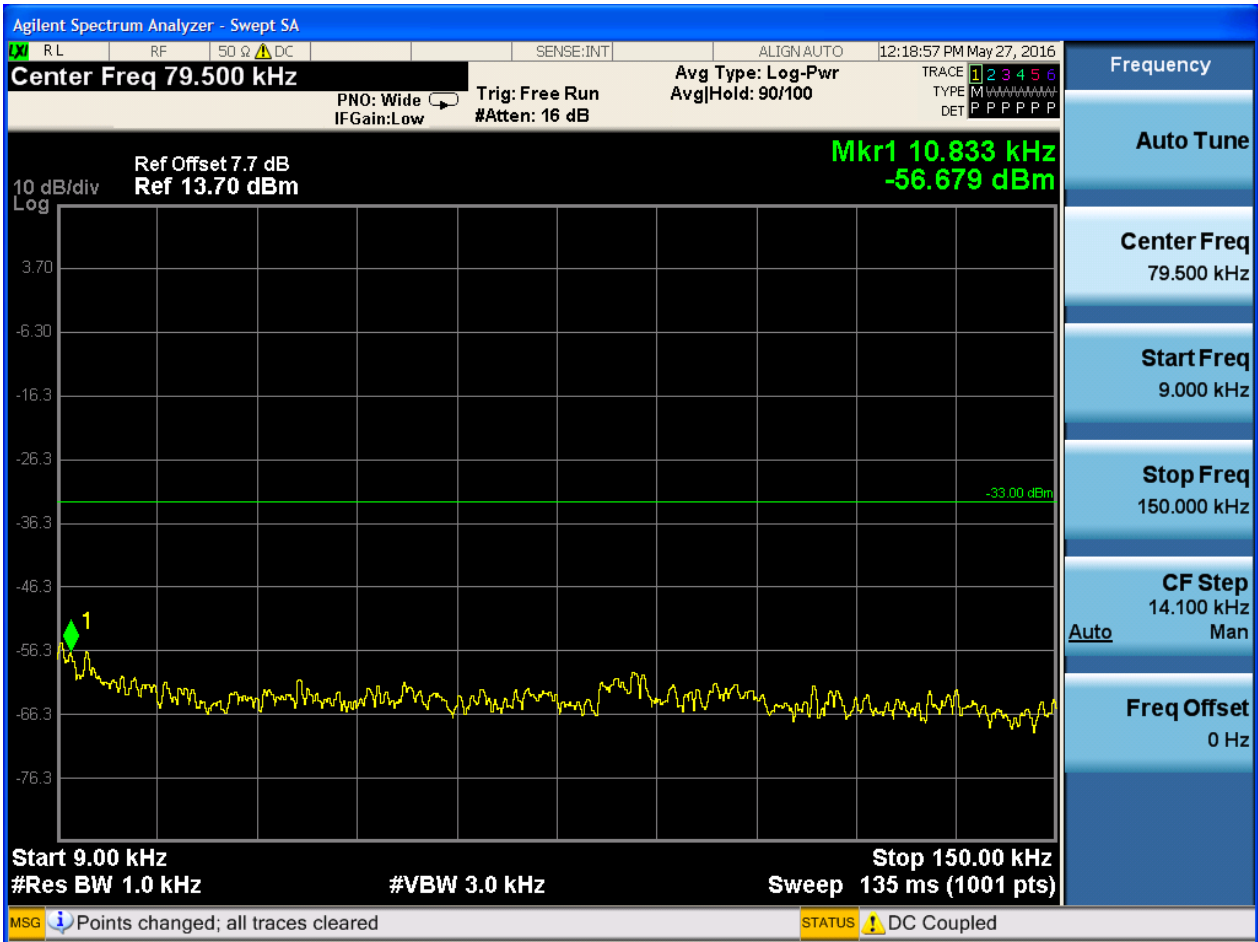


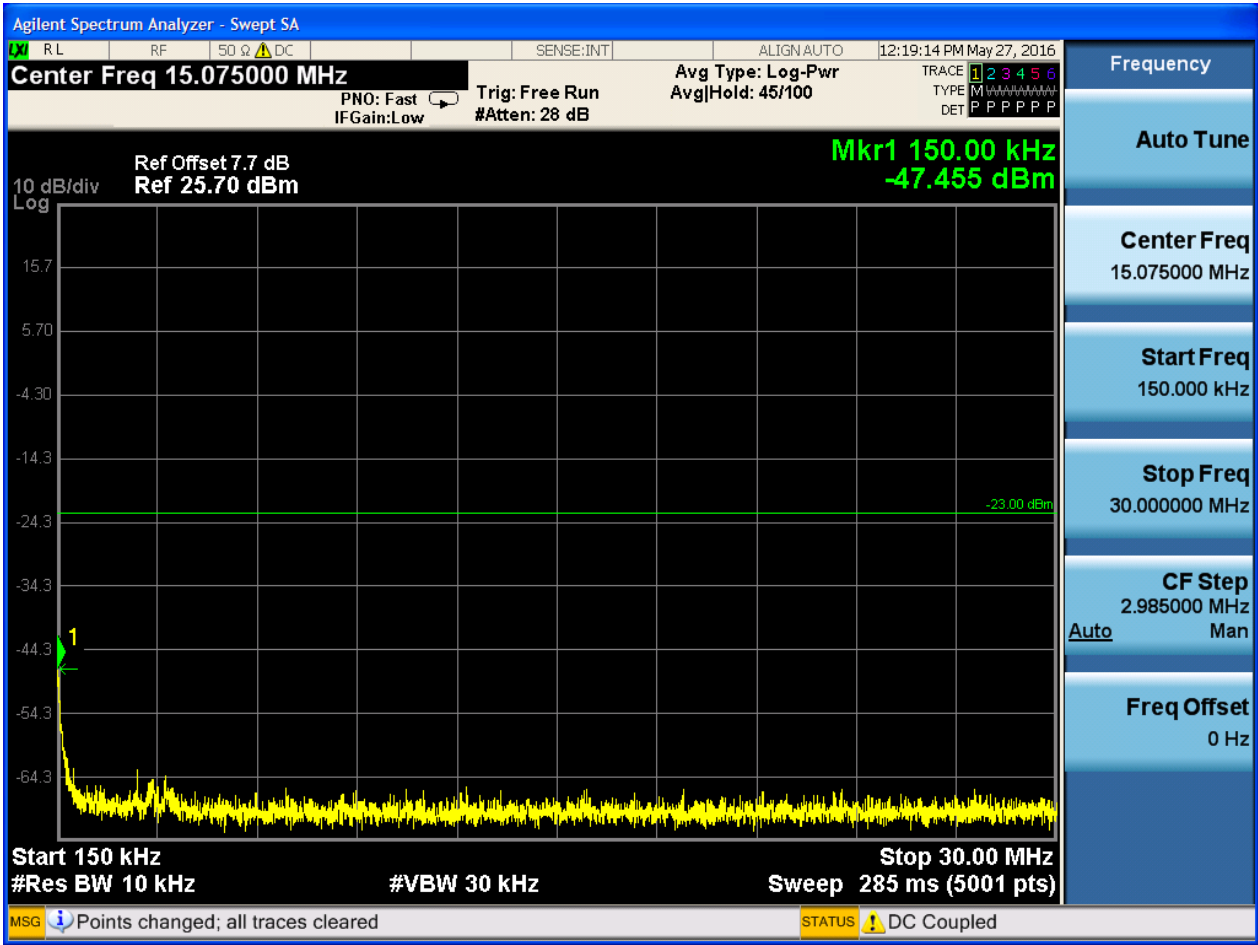


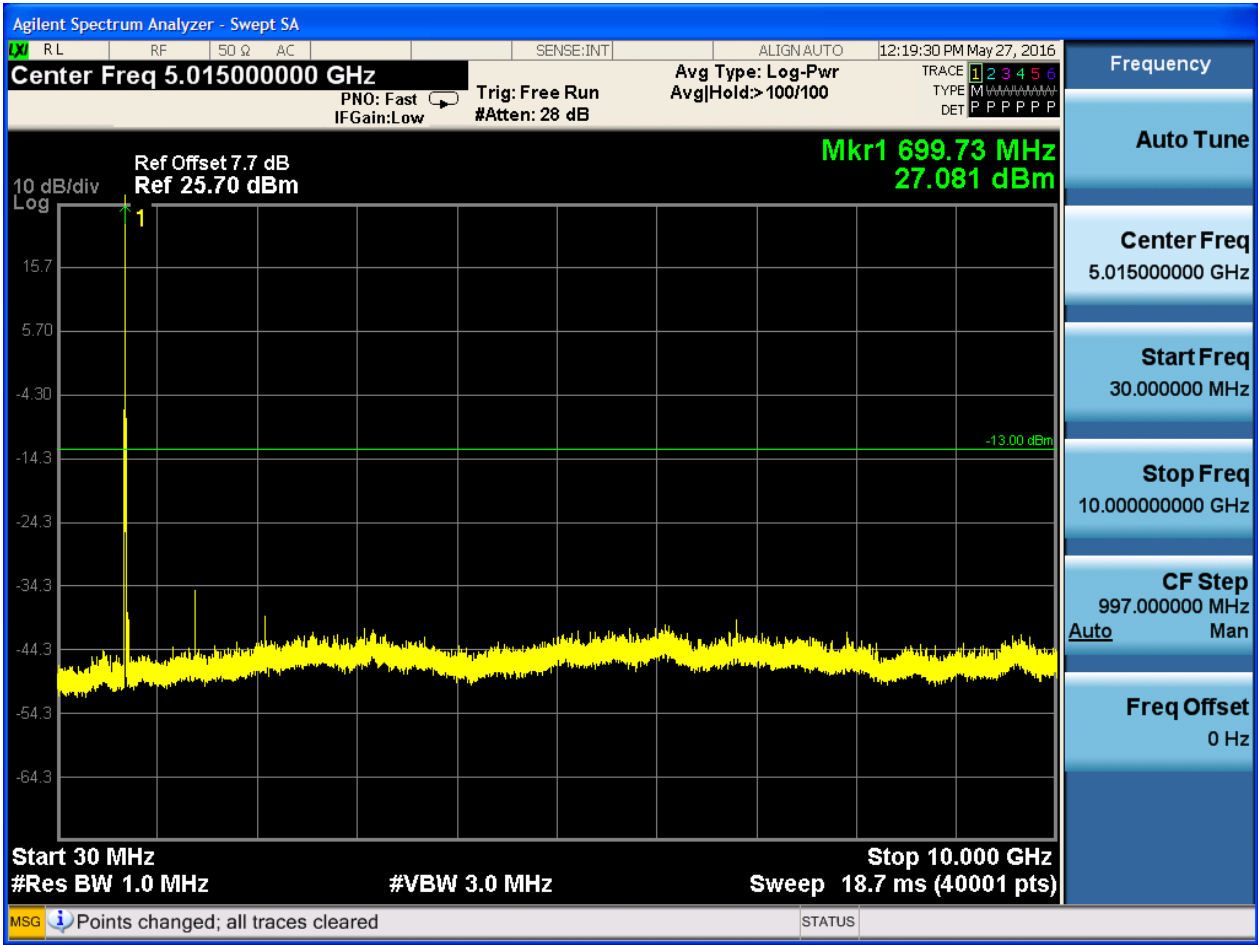
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



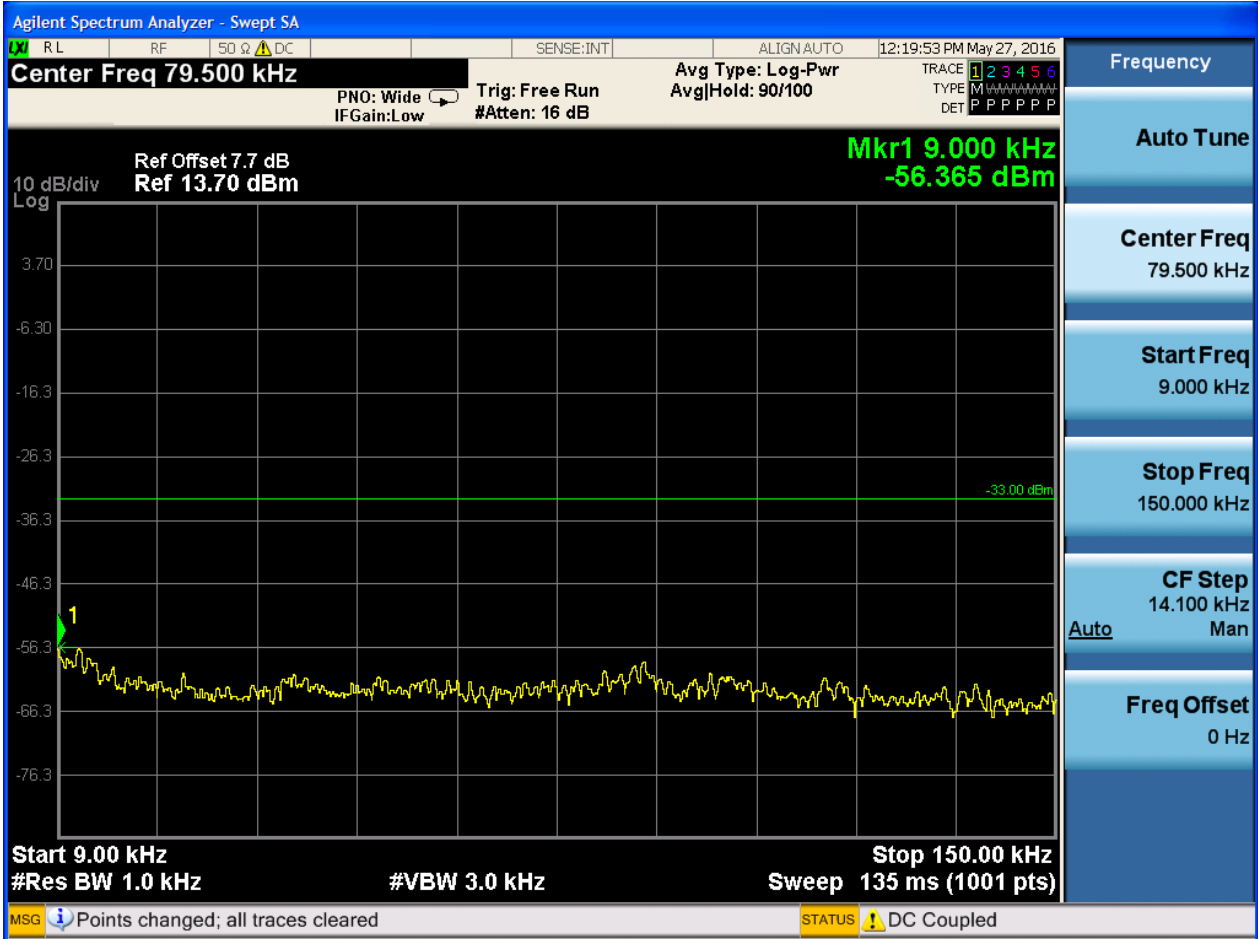


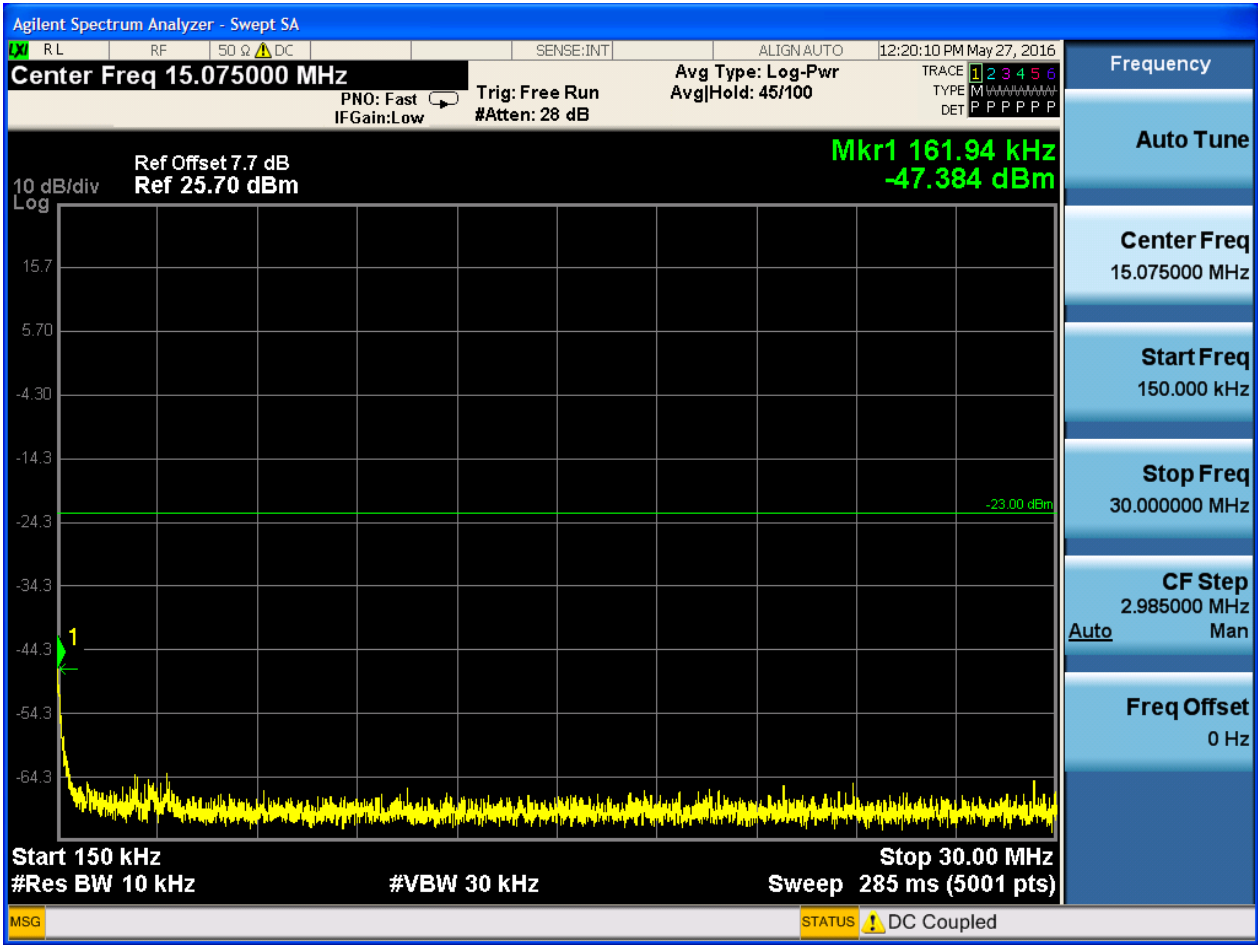


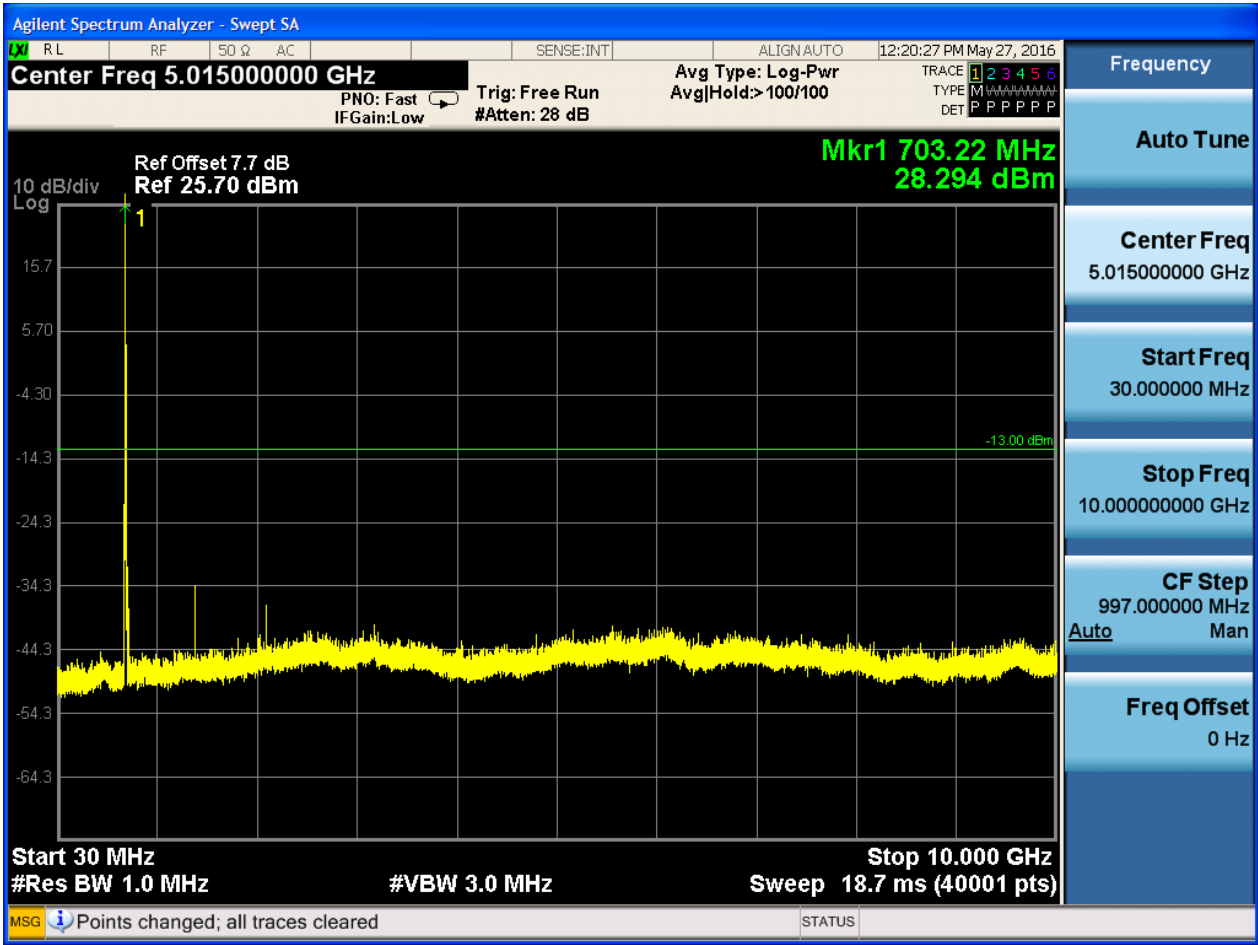


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



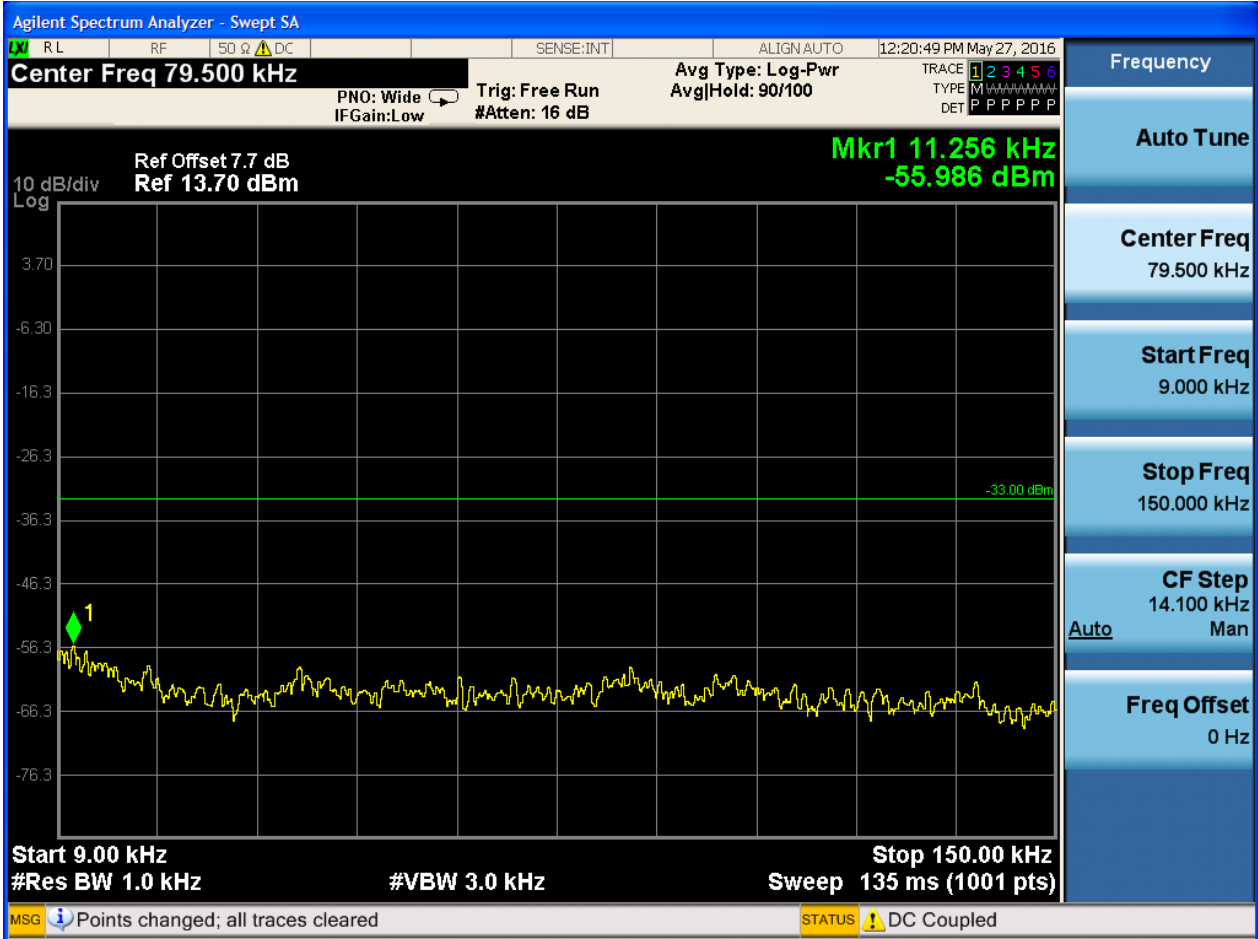


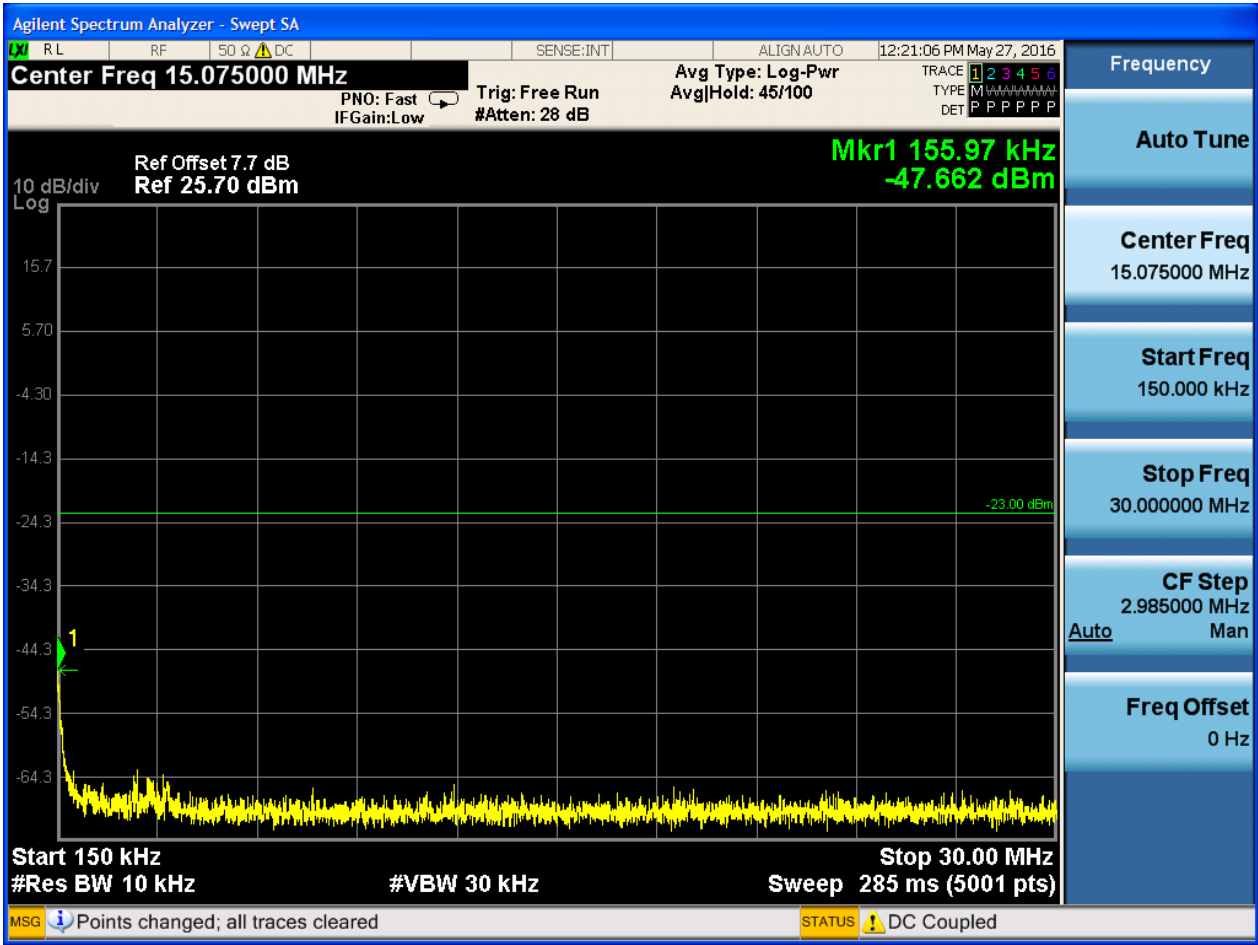


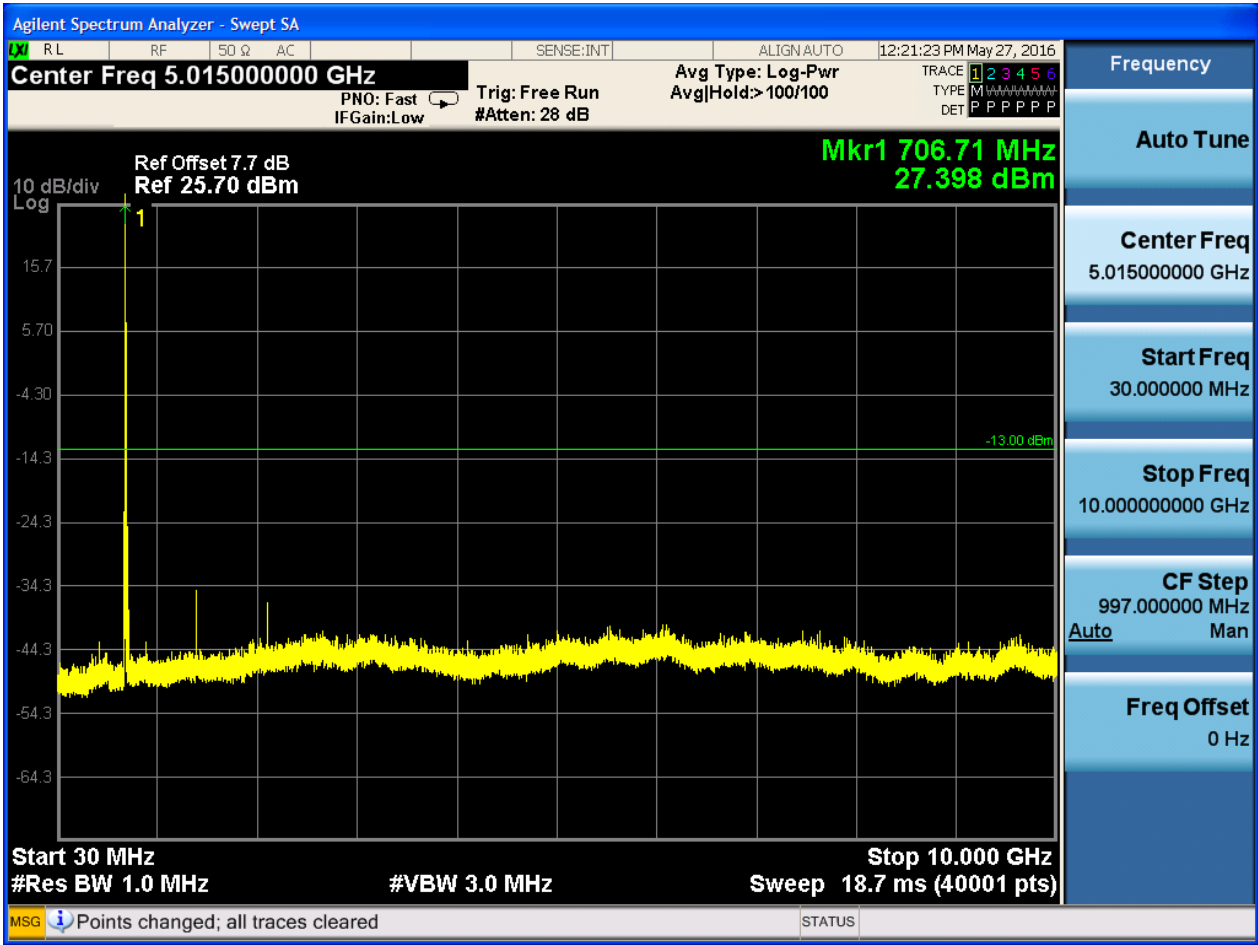


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







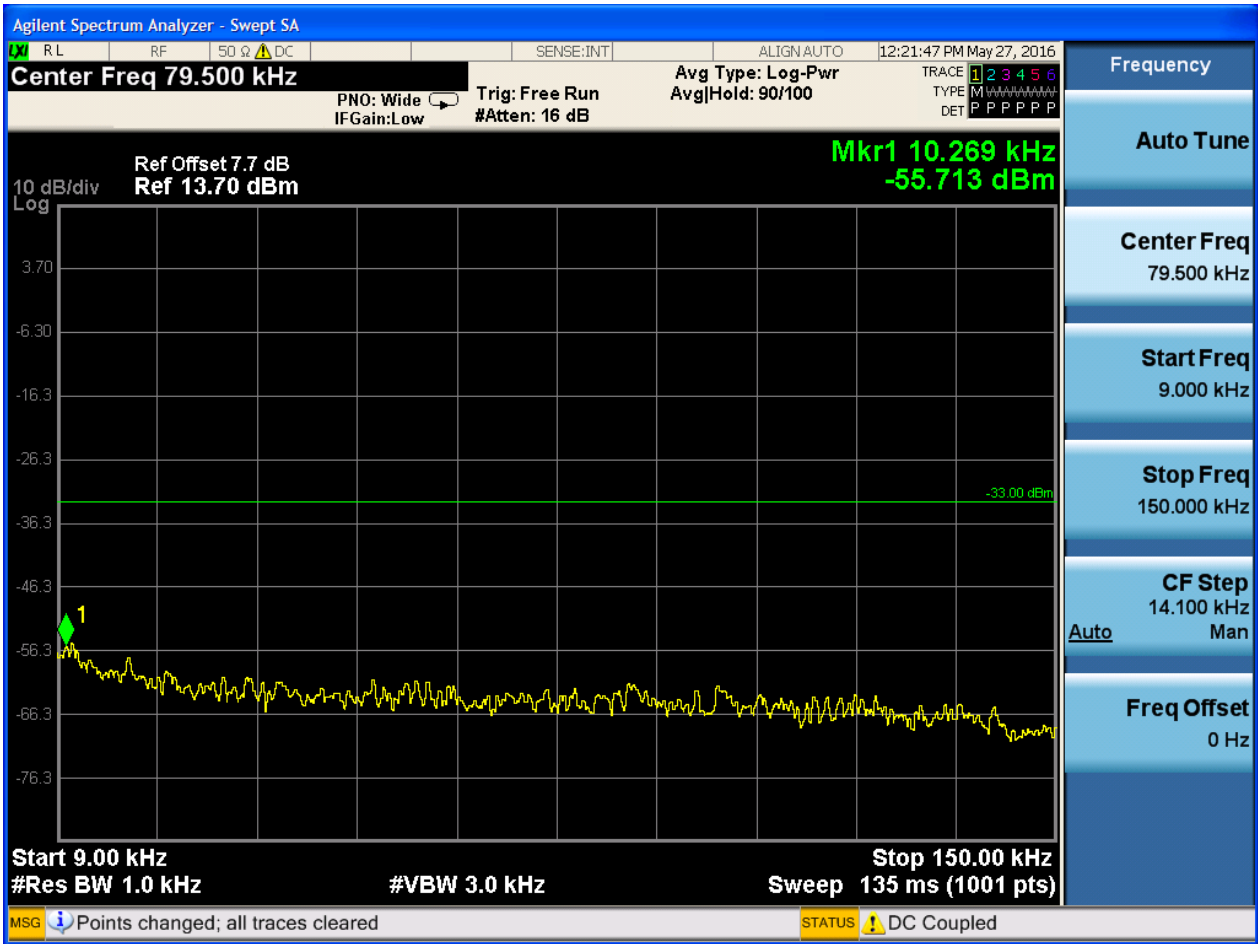


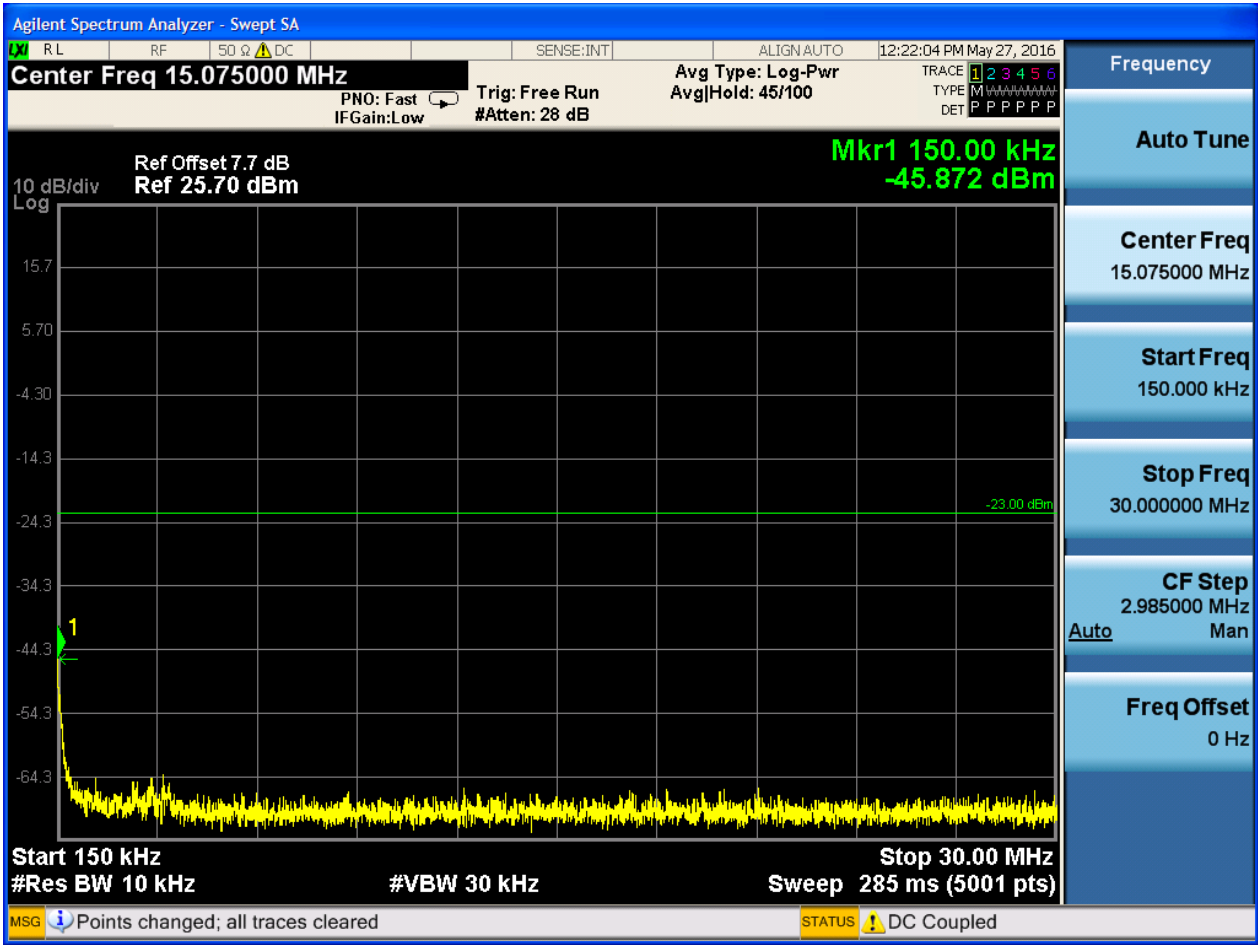
6.1.1.2 Test Mode = LTE/TM2

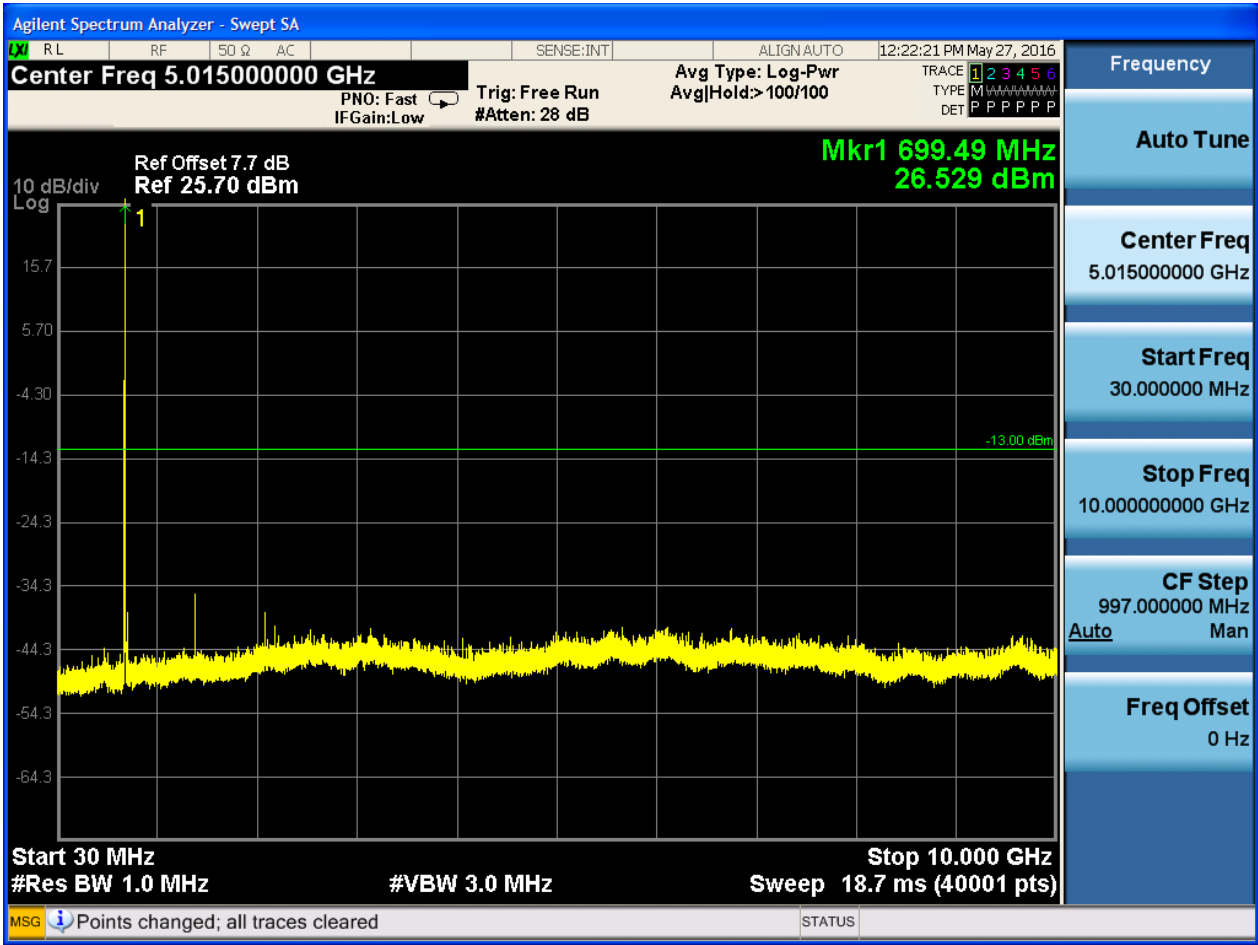
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



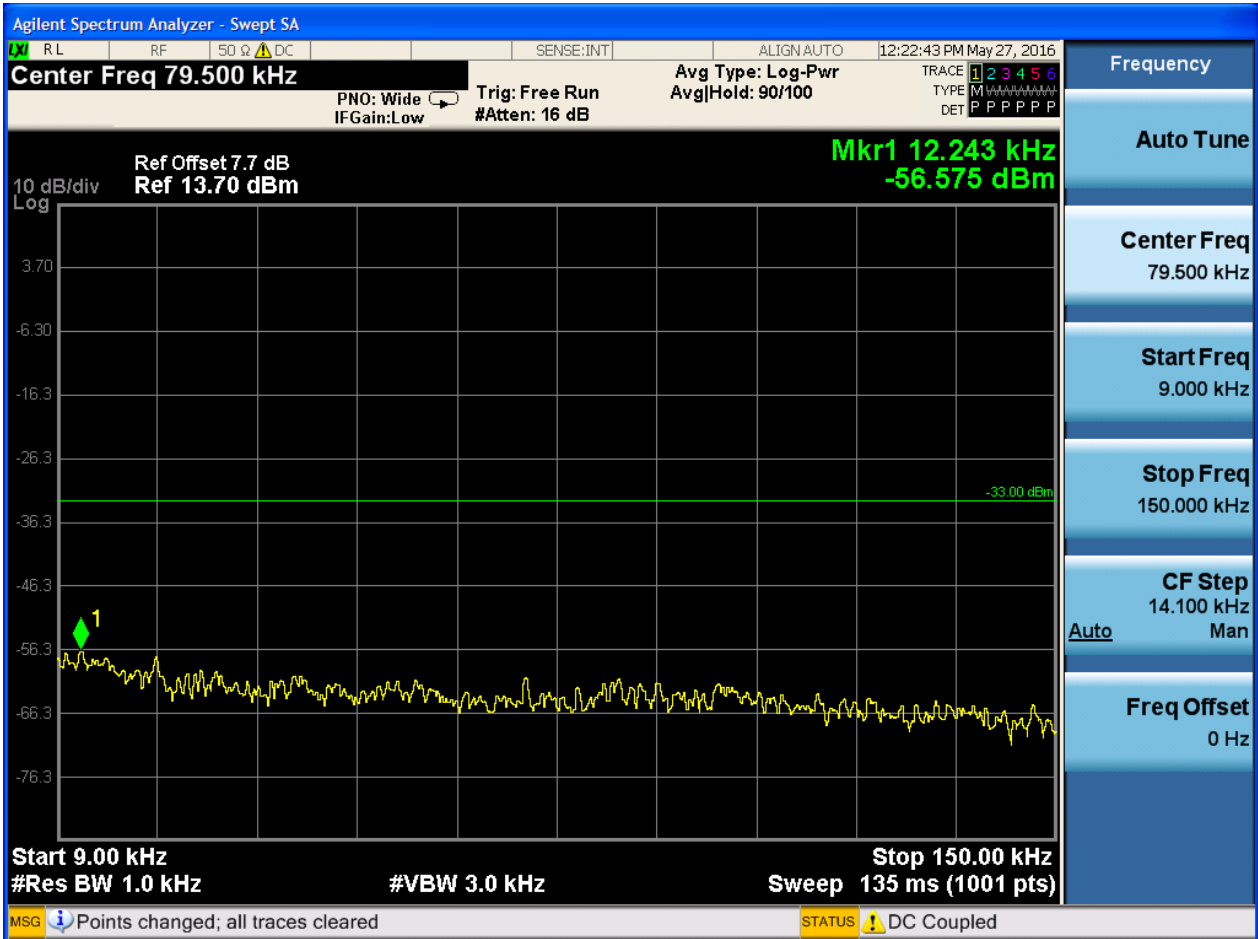


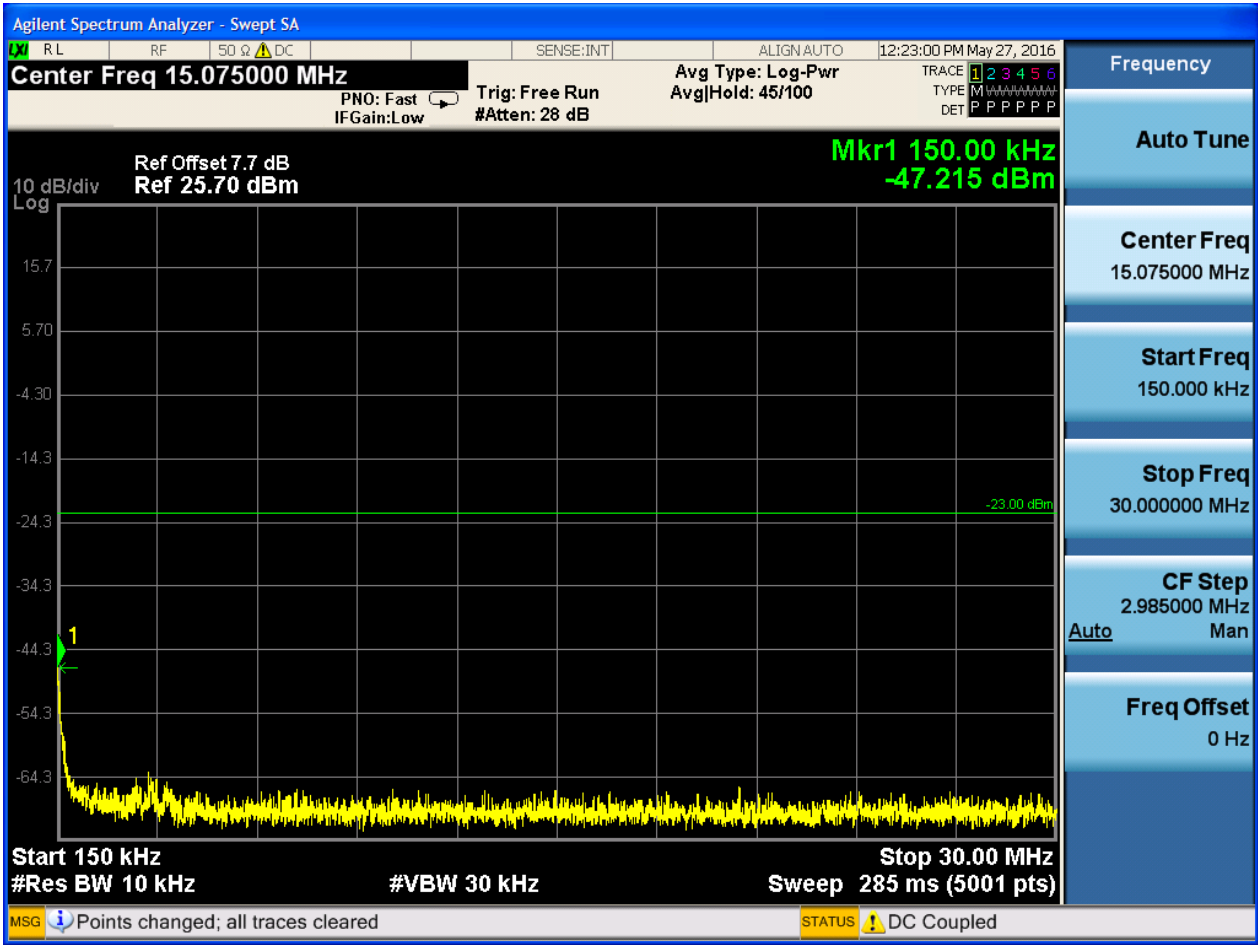


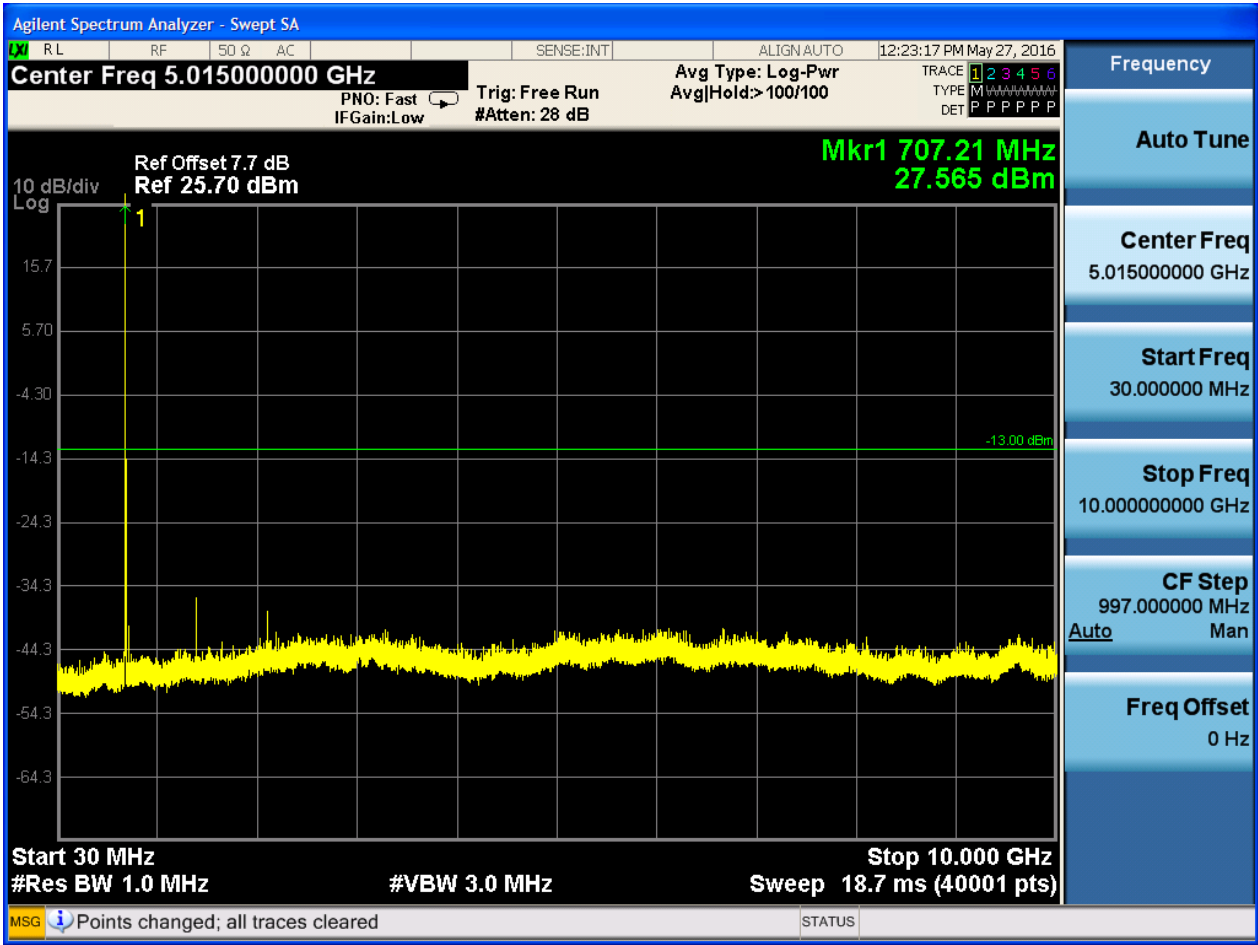


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



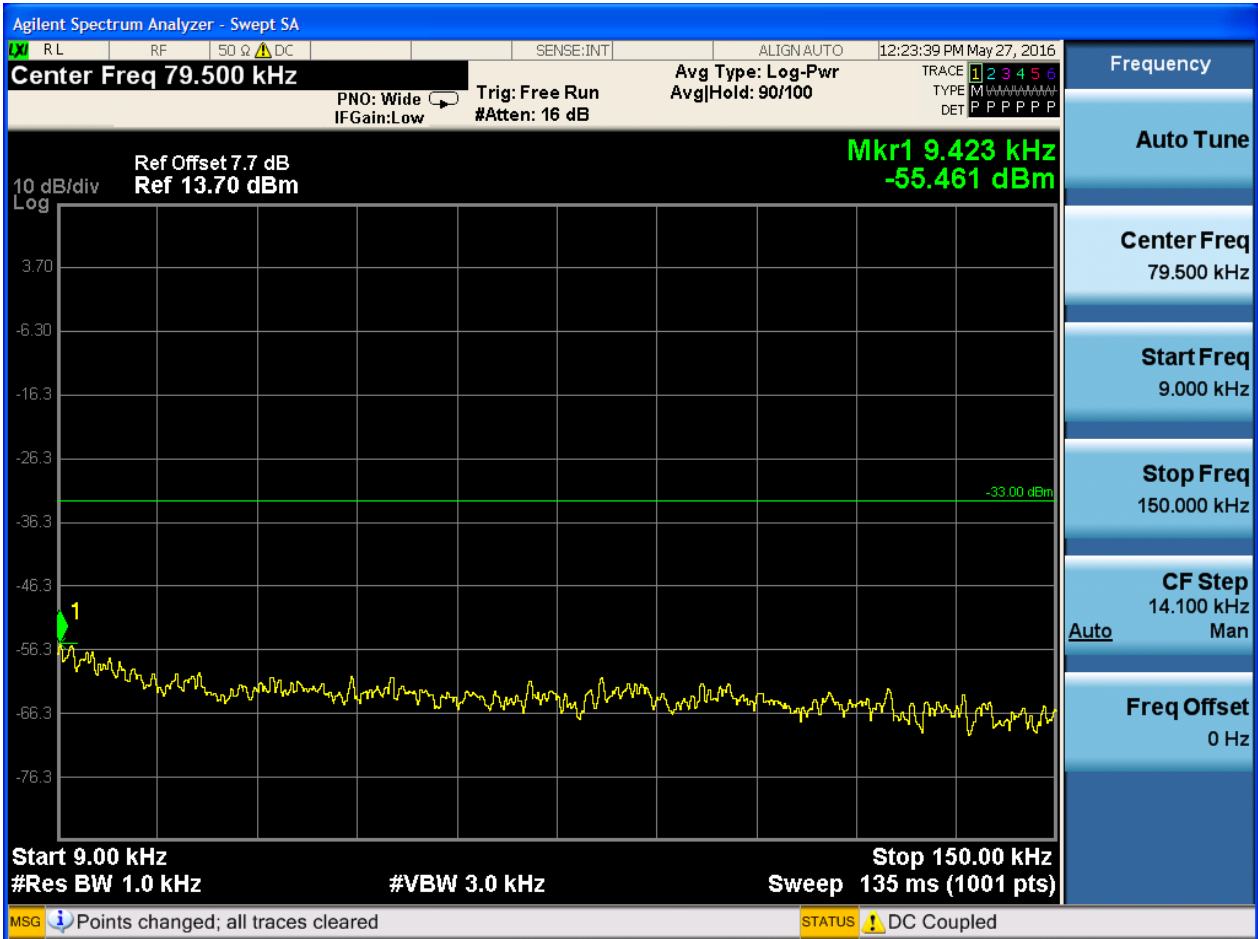


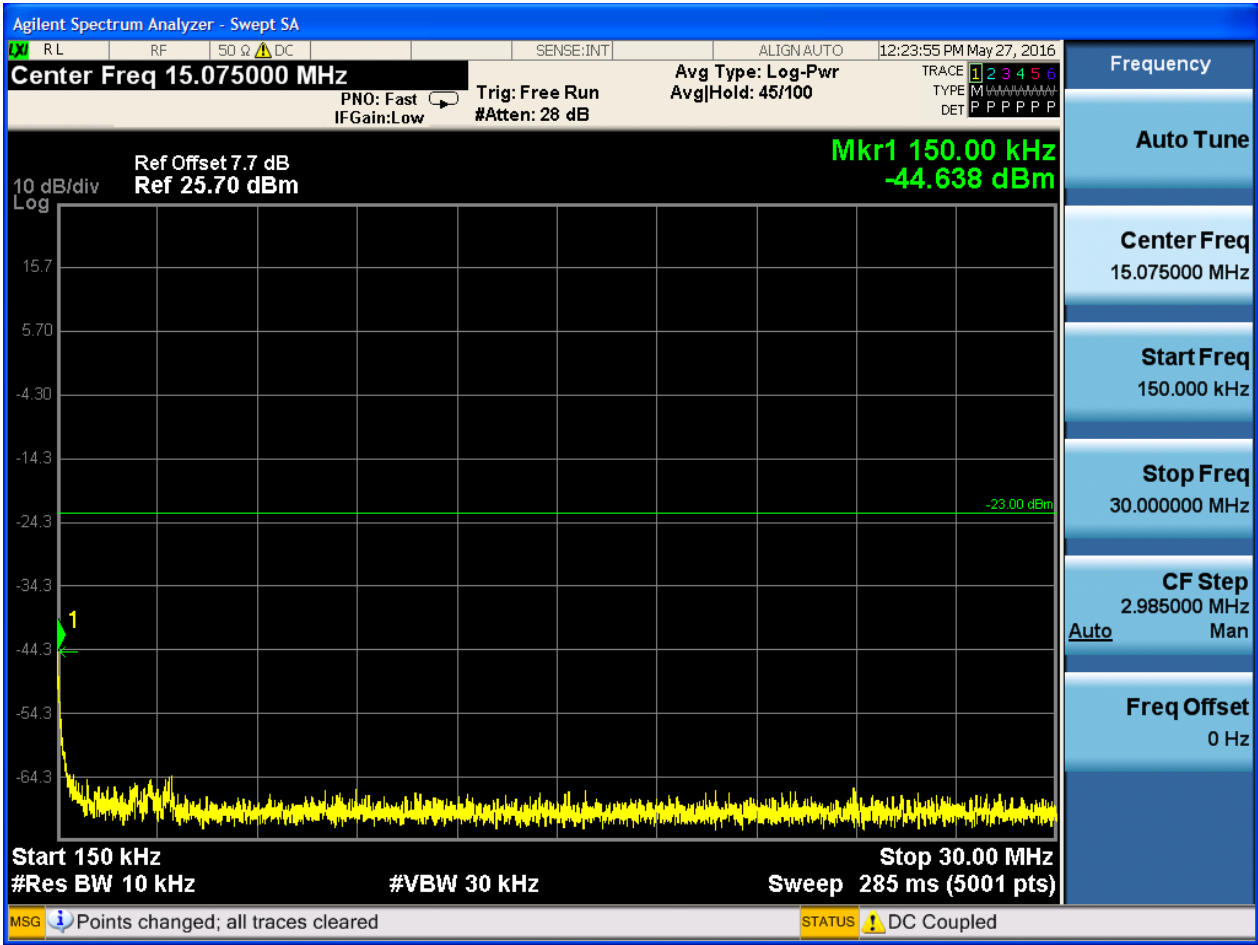


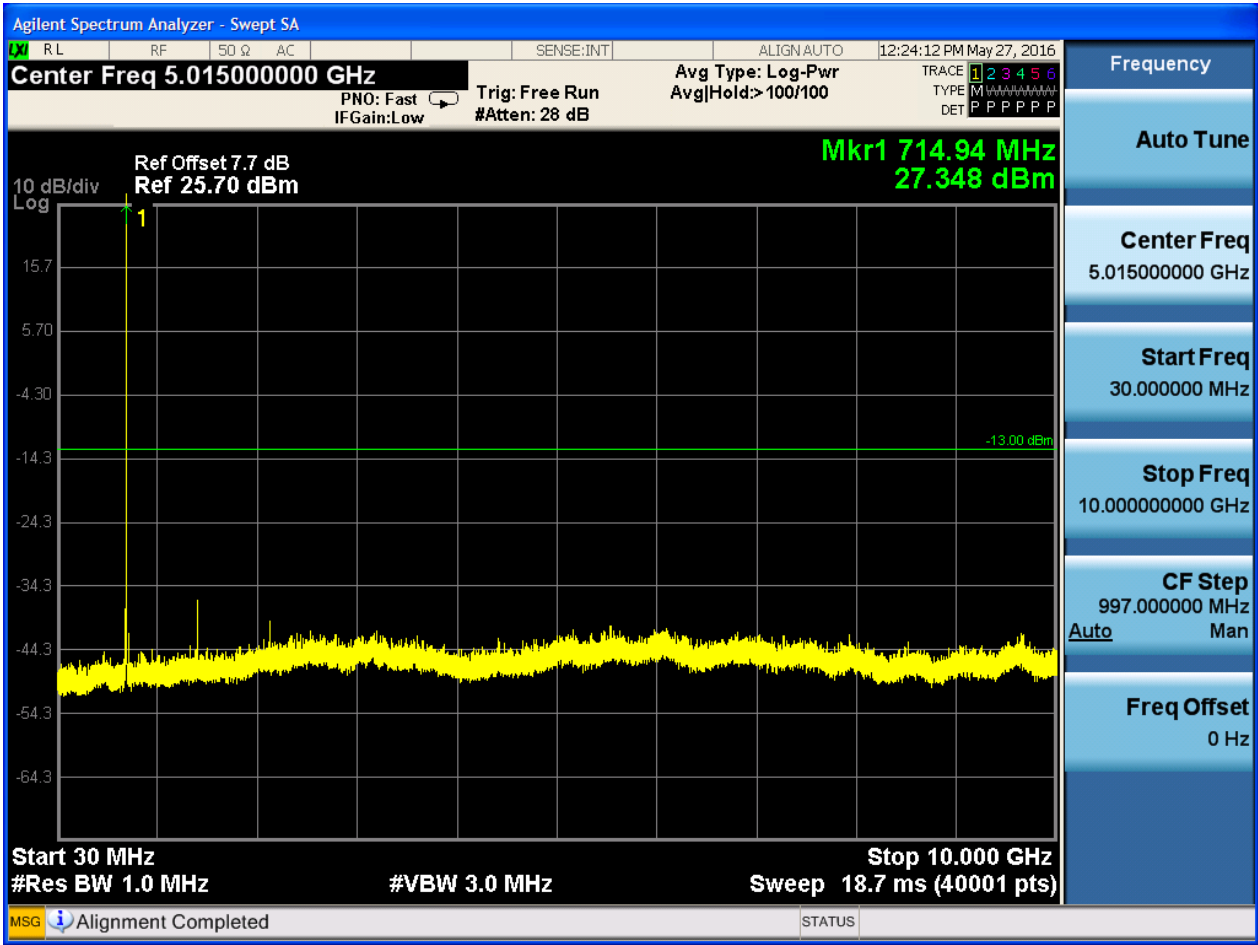


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





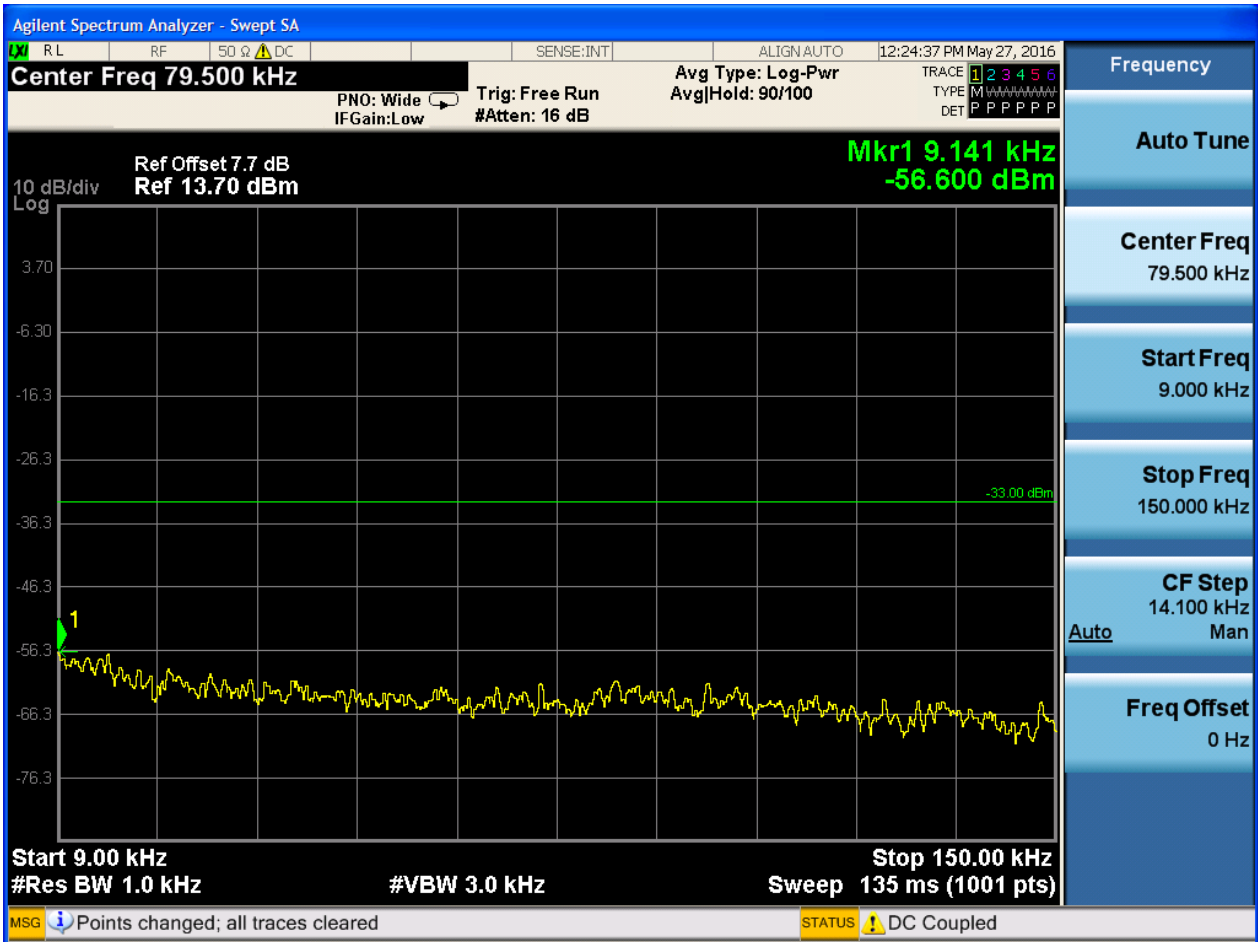


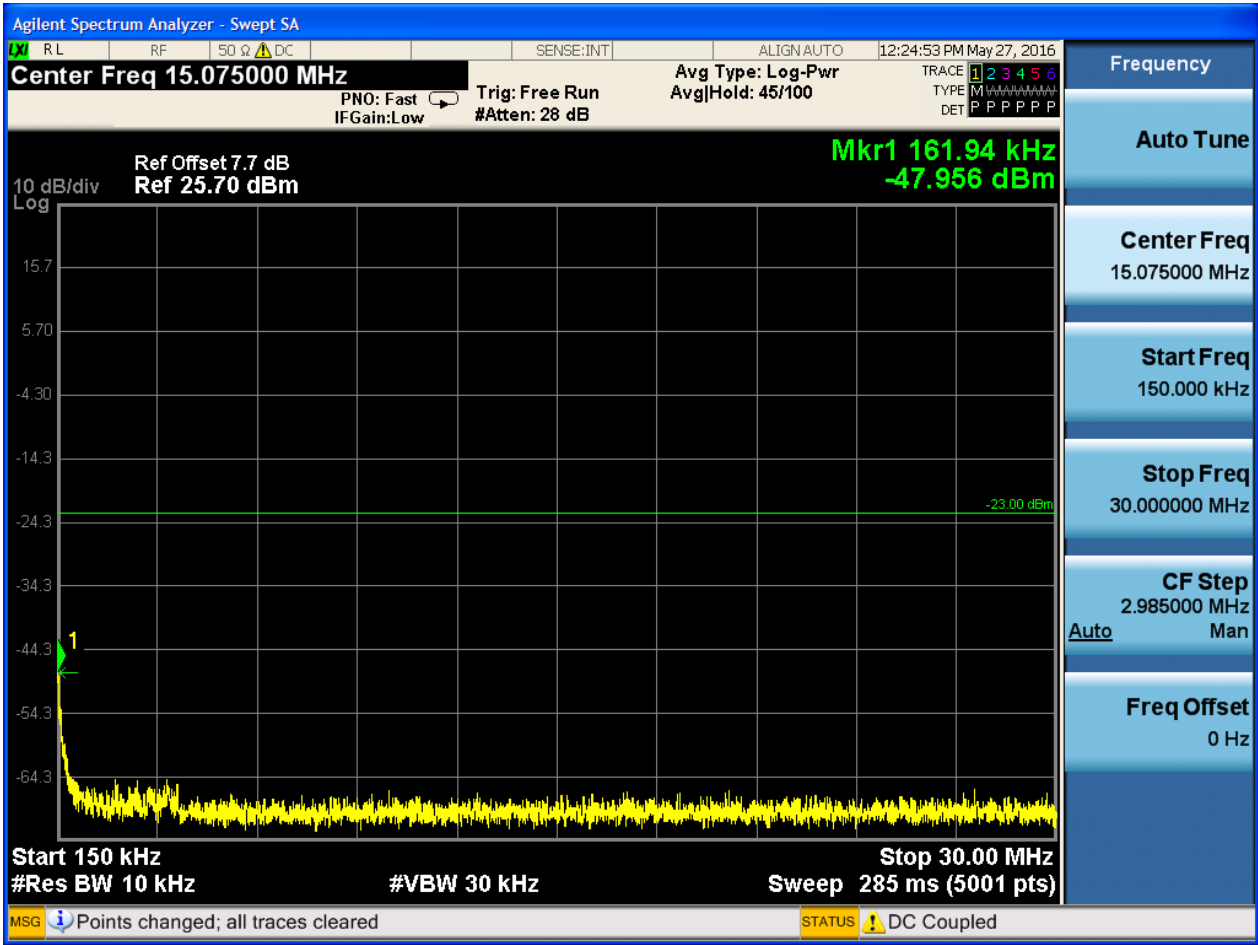


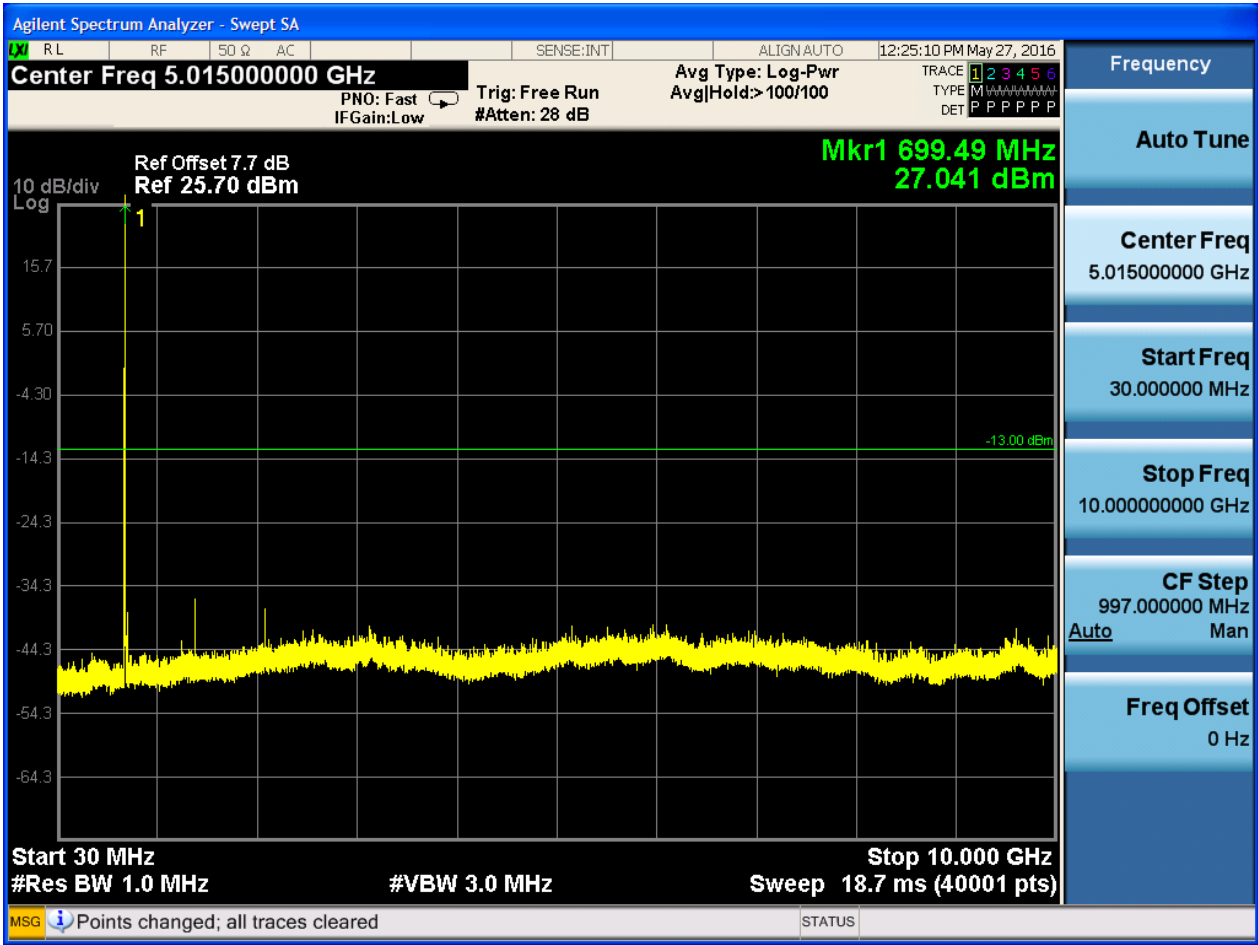
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



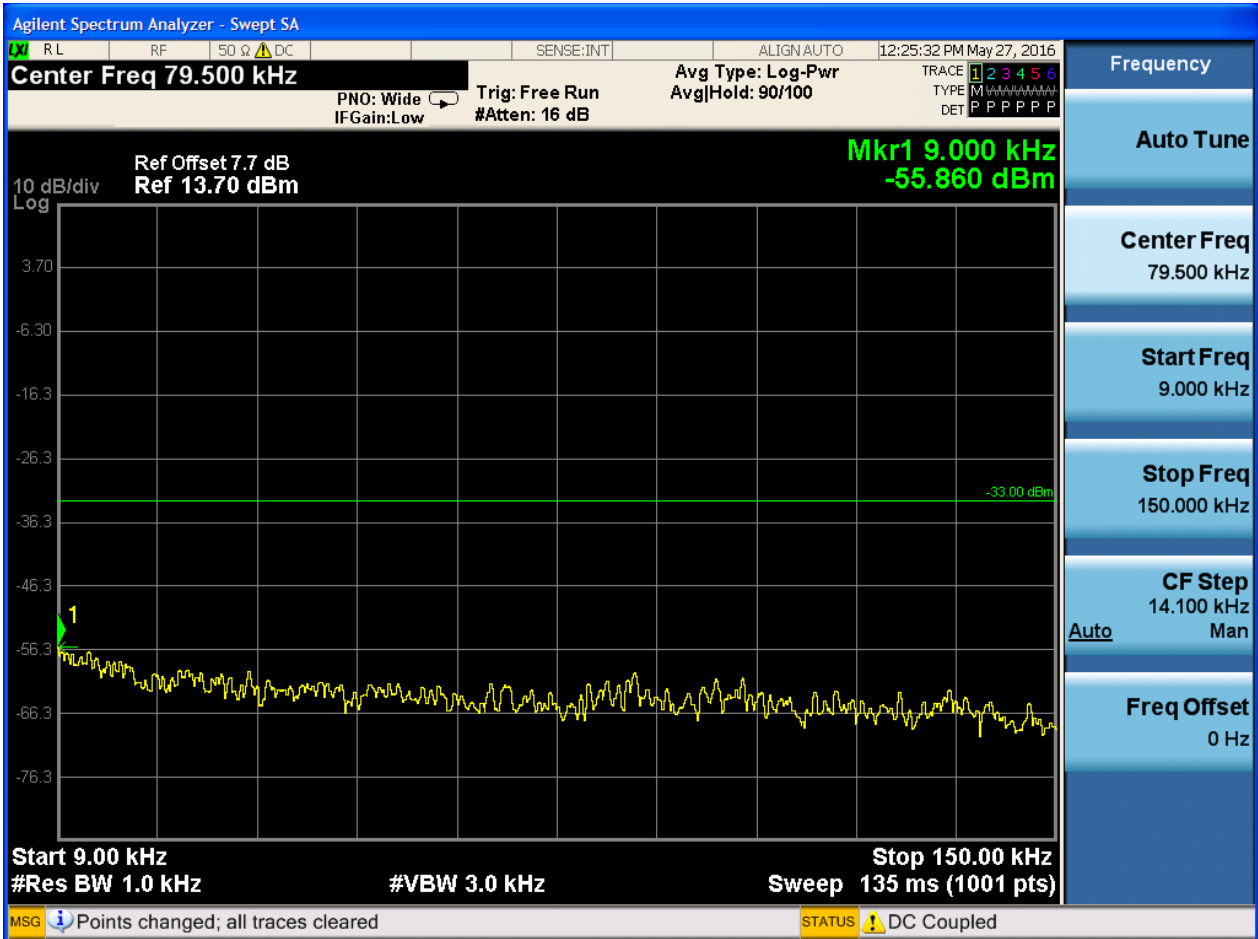




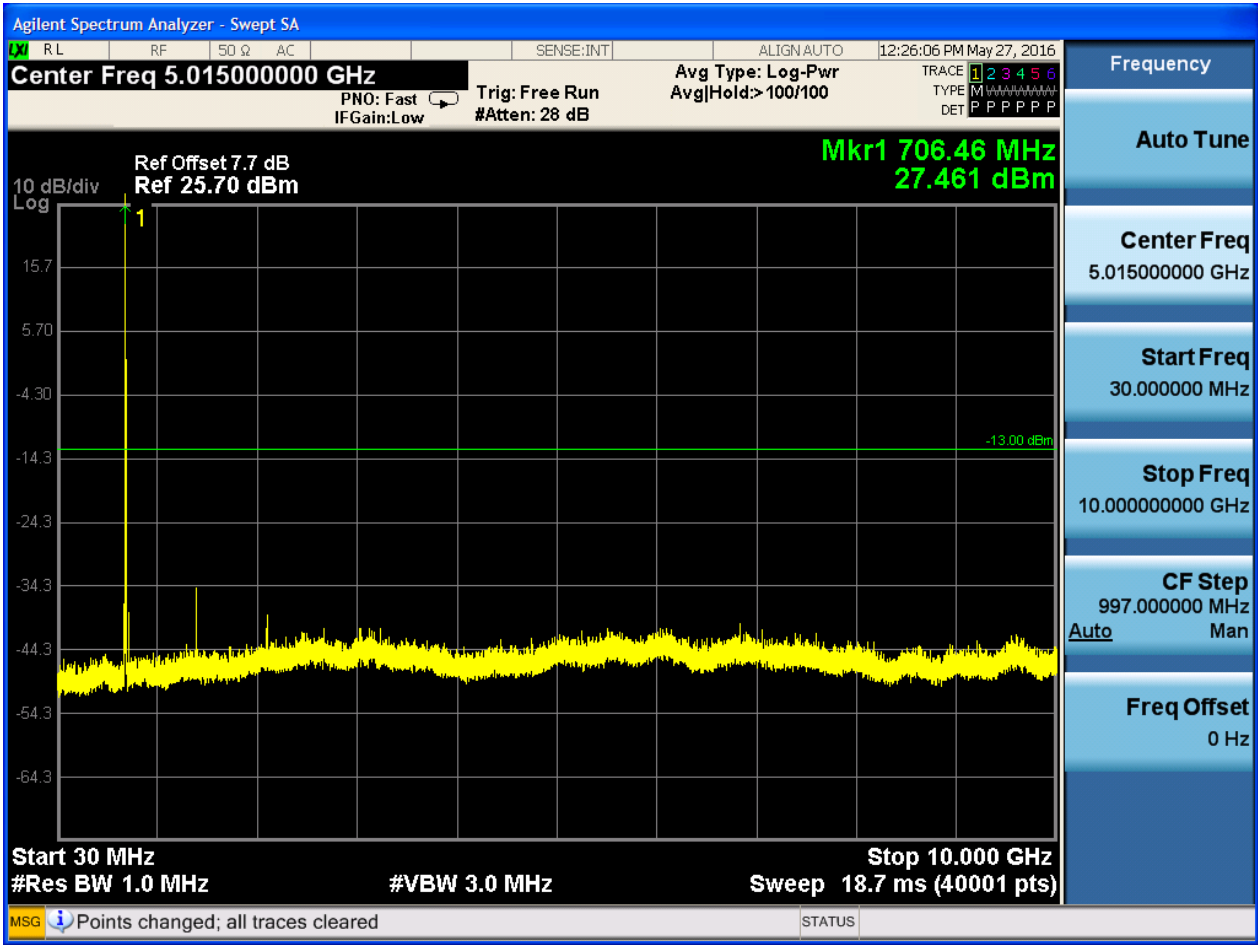


6.1.1.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0



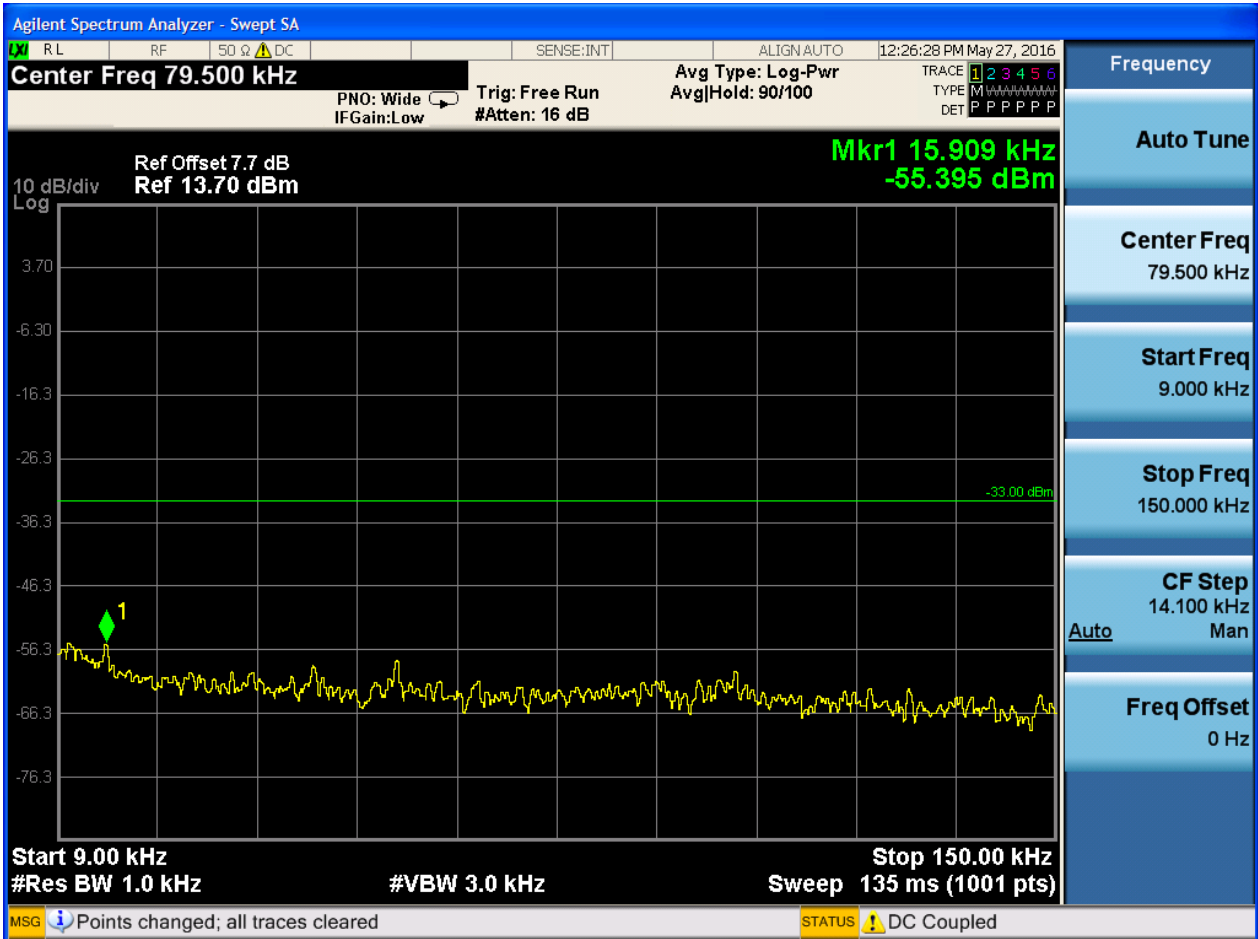


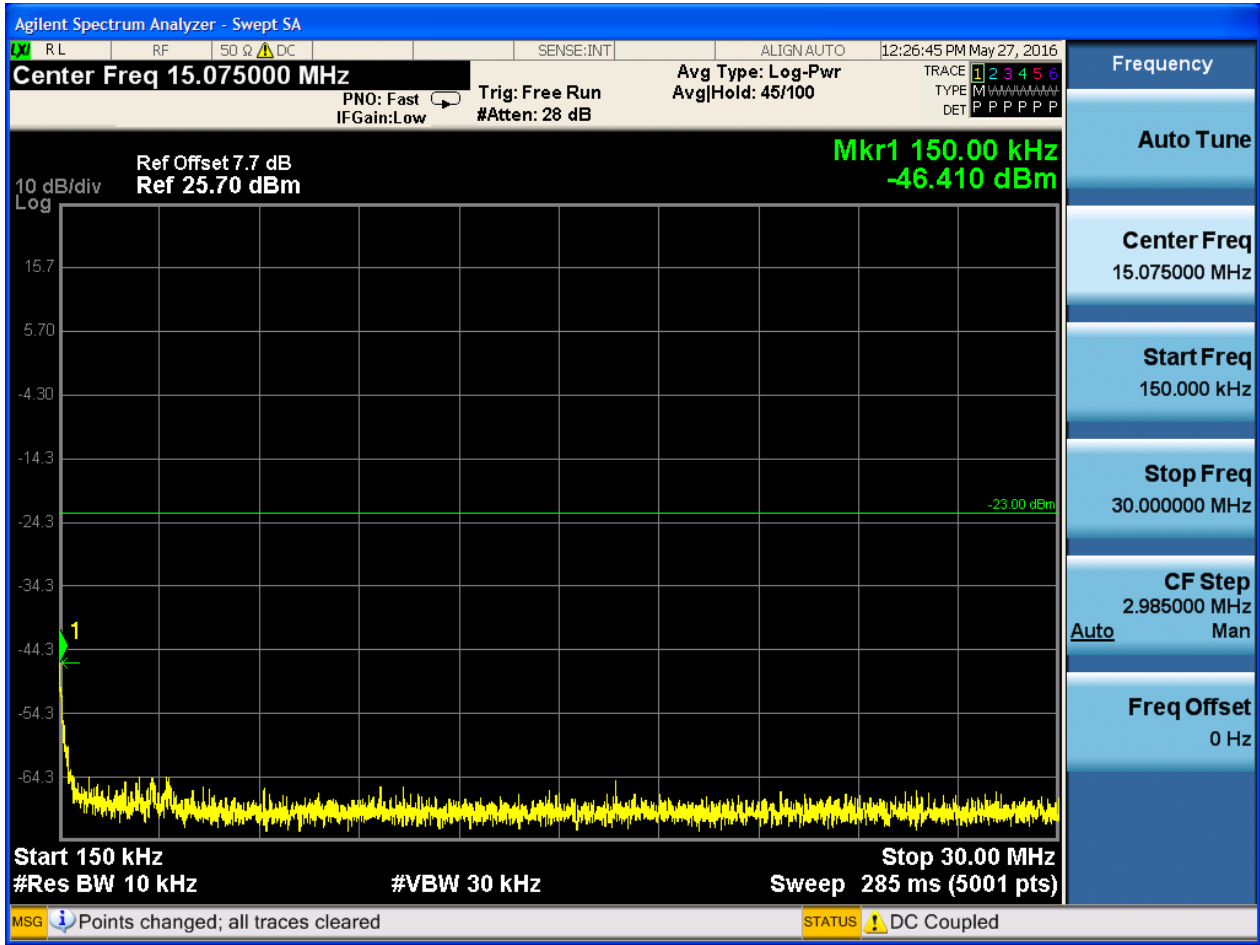


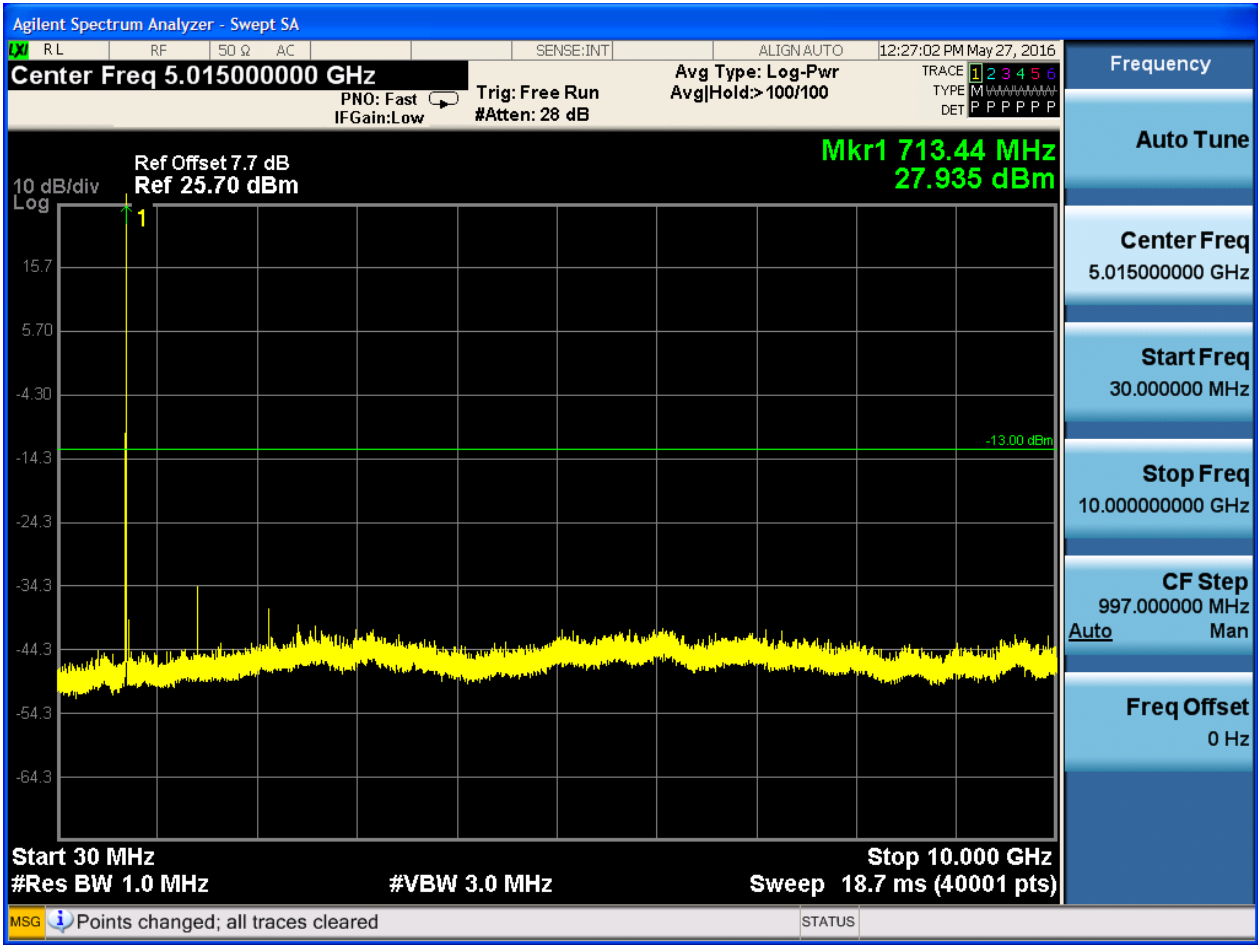


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





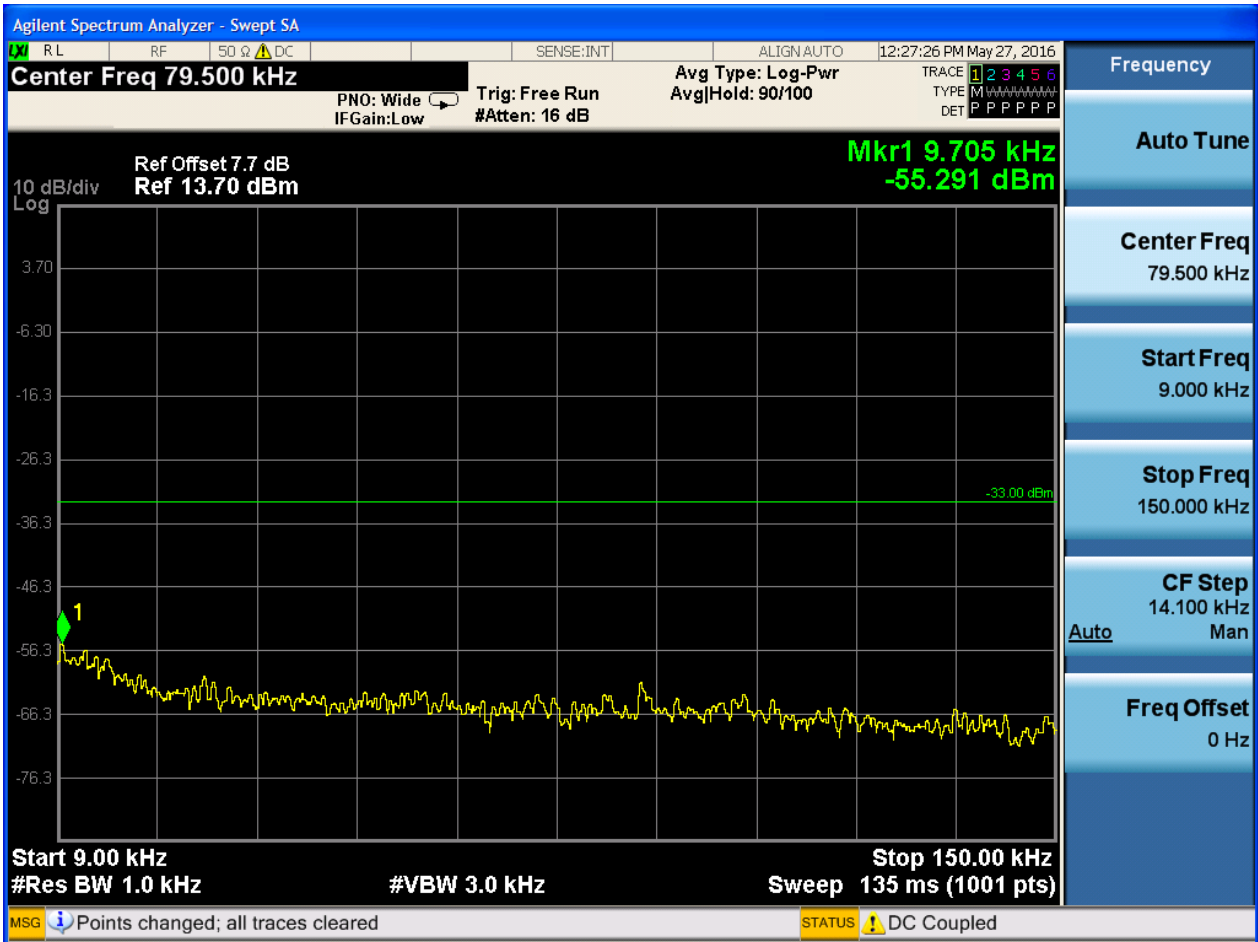


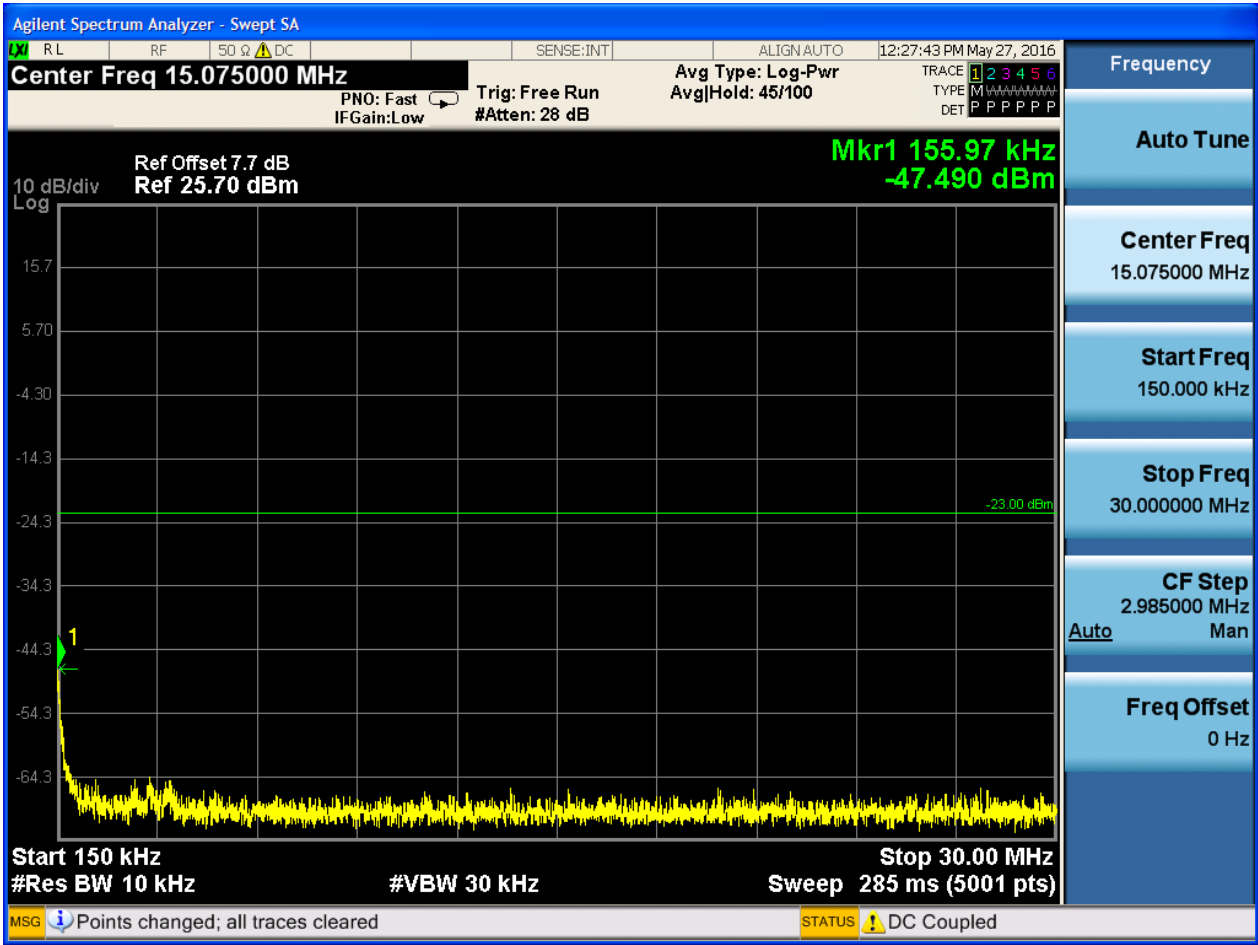


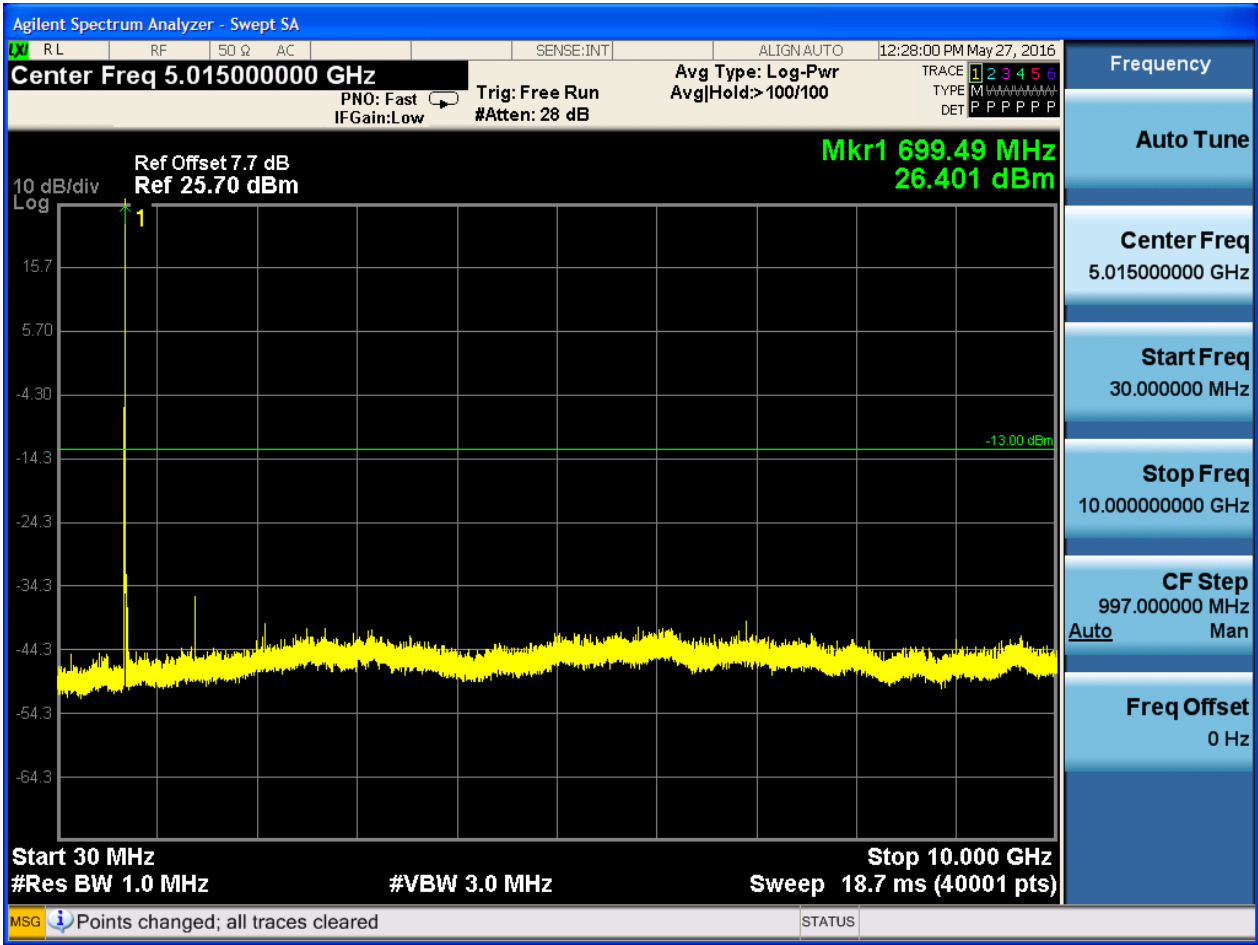
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

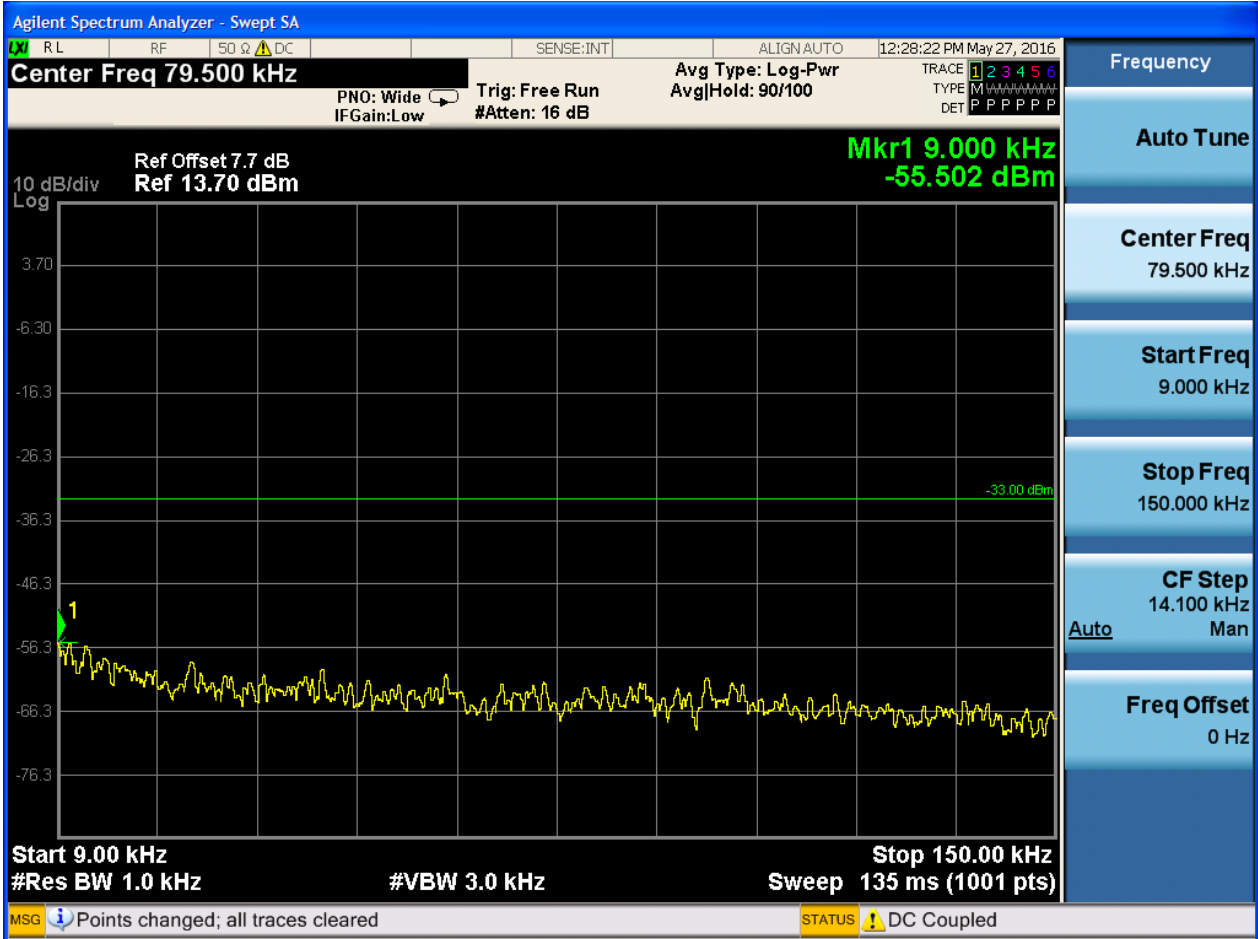


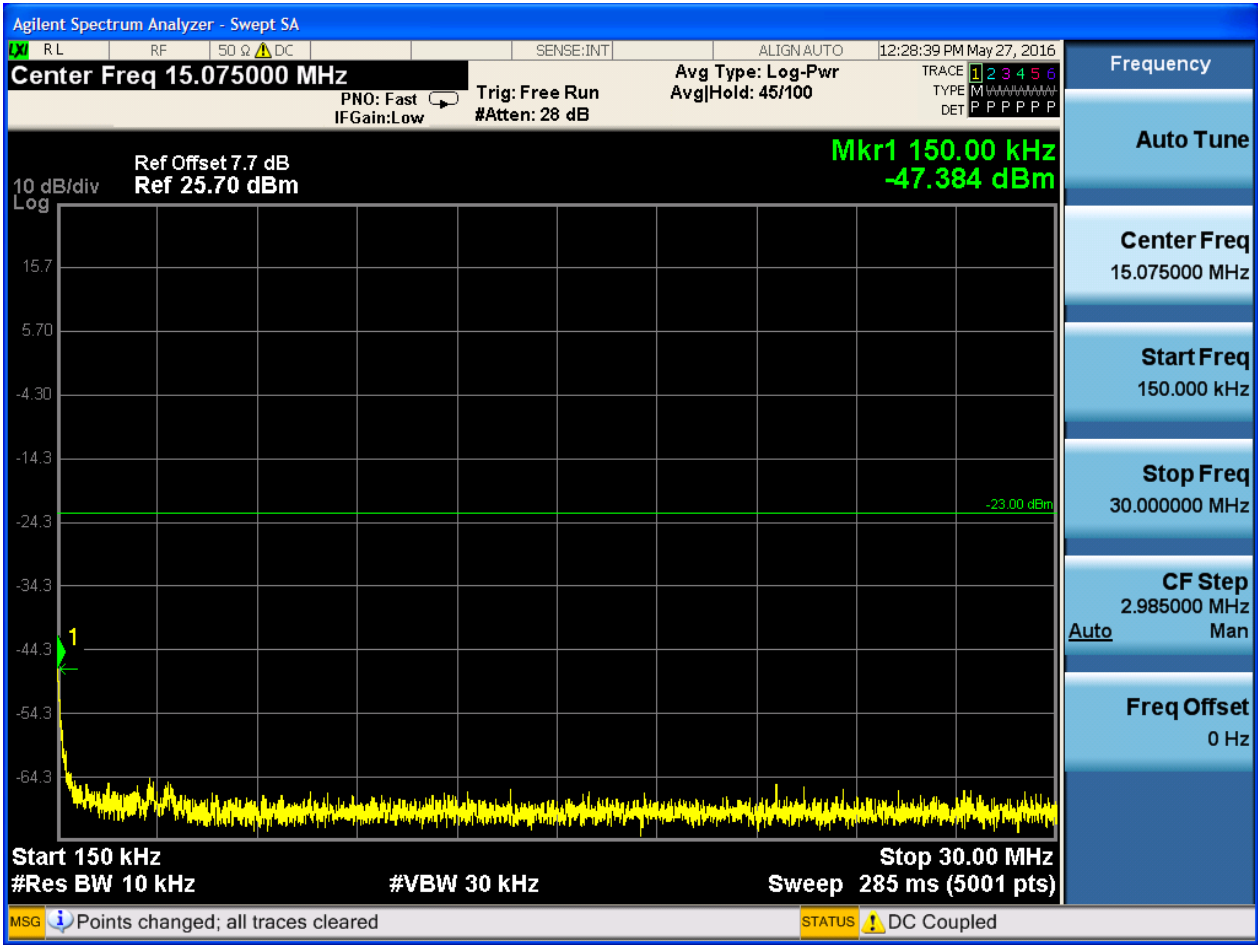


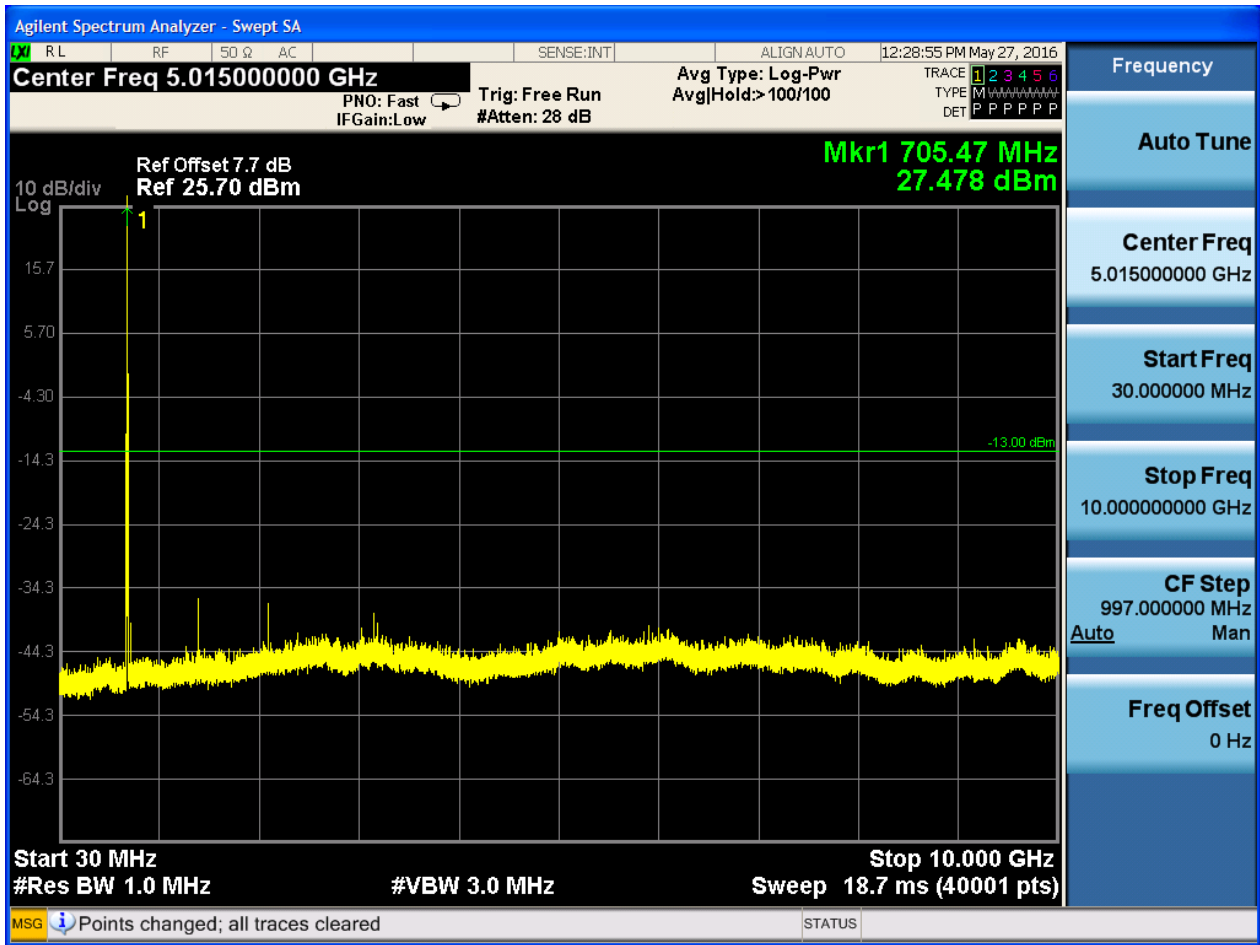


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



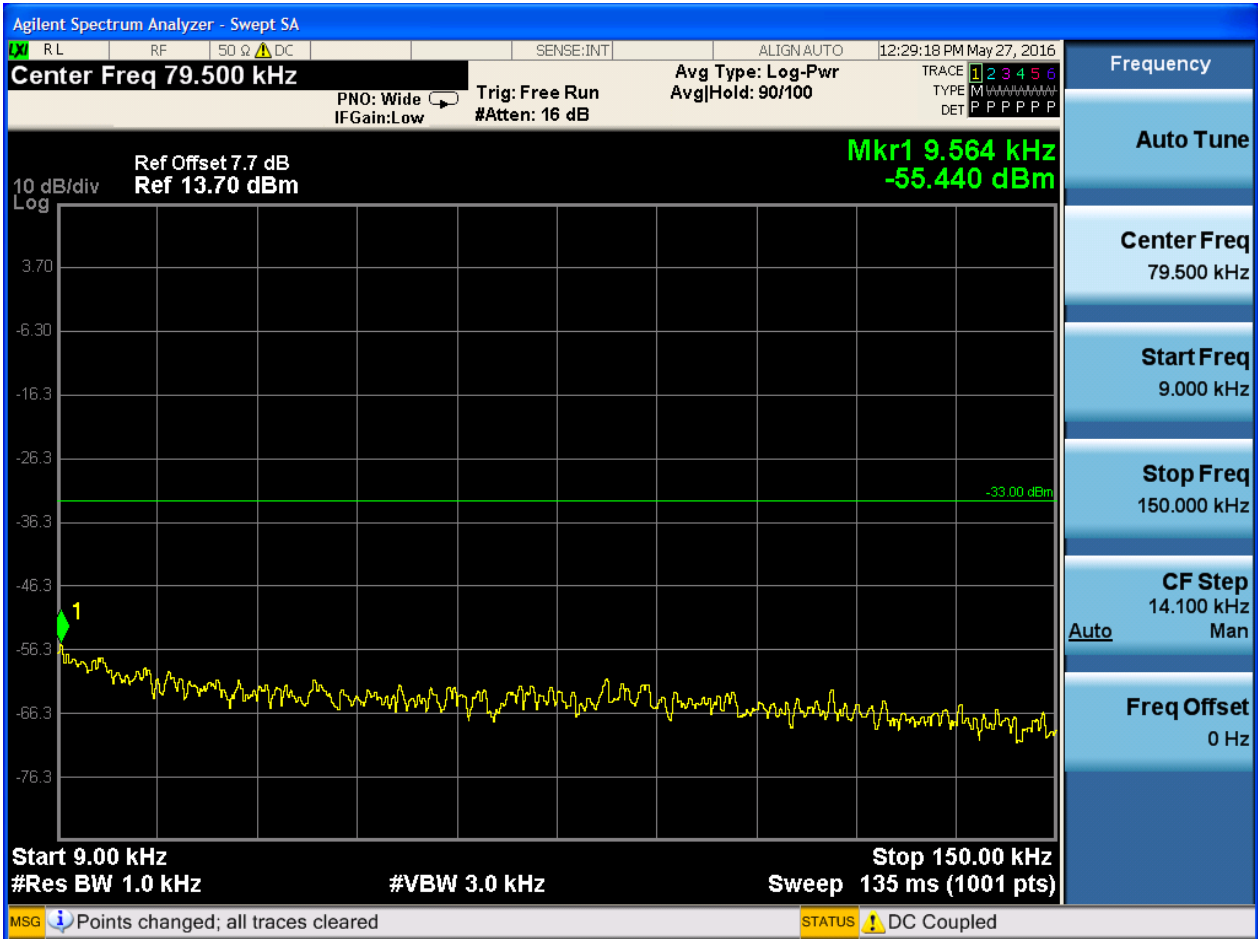


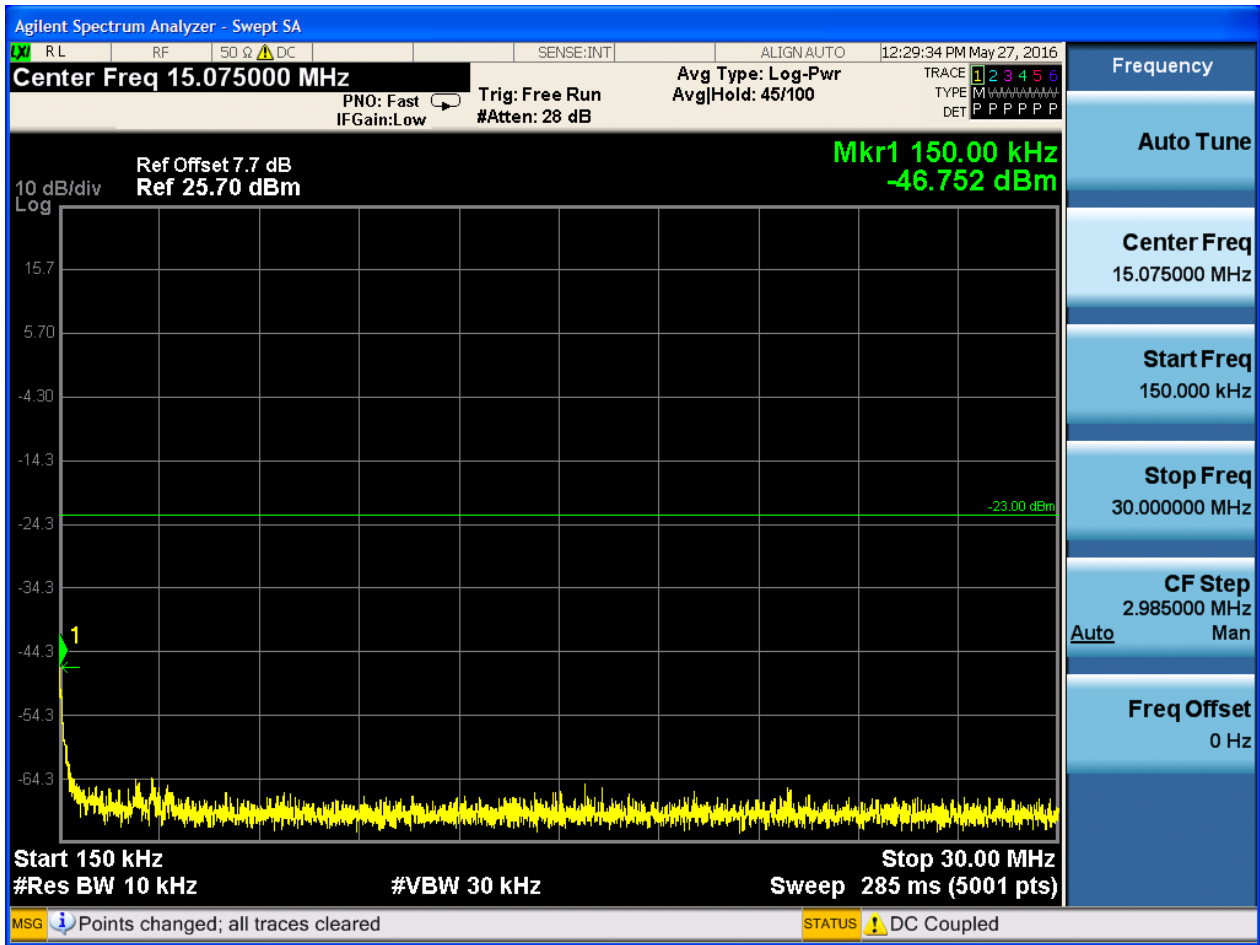


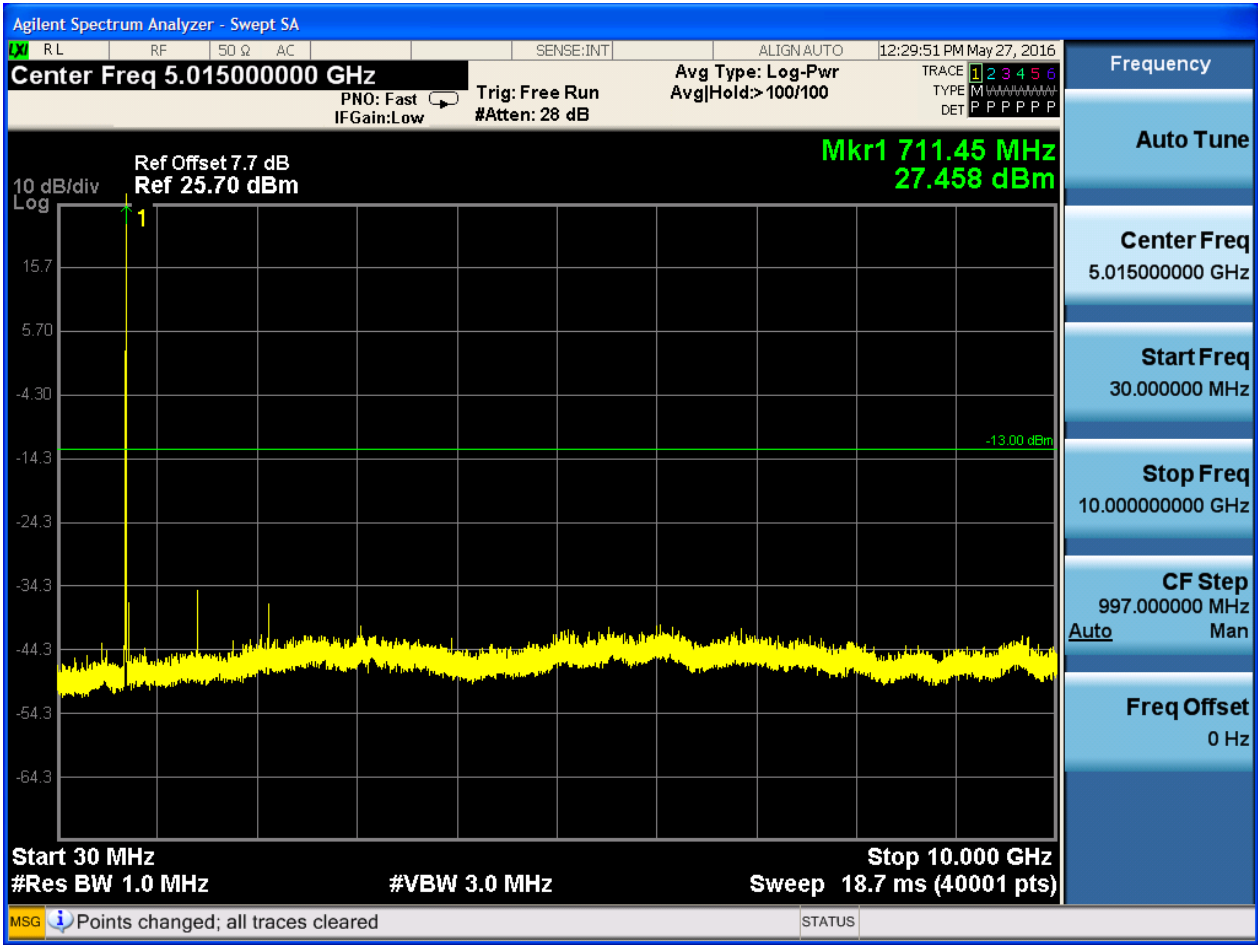


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





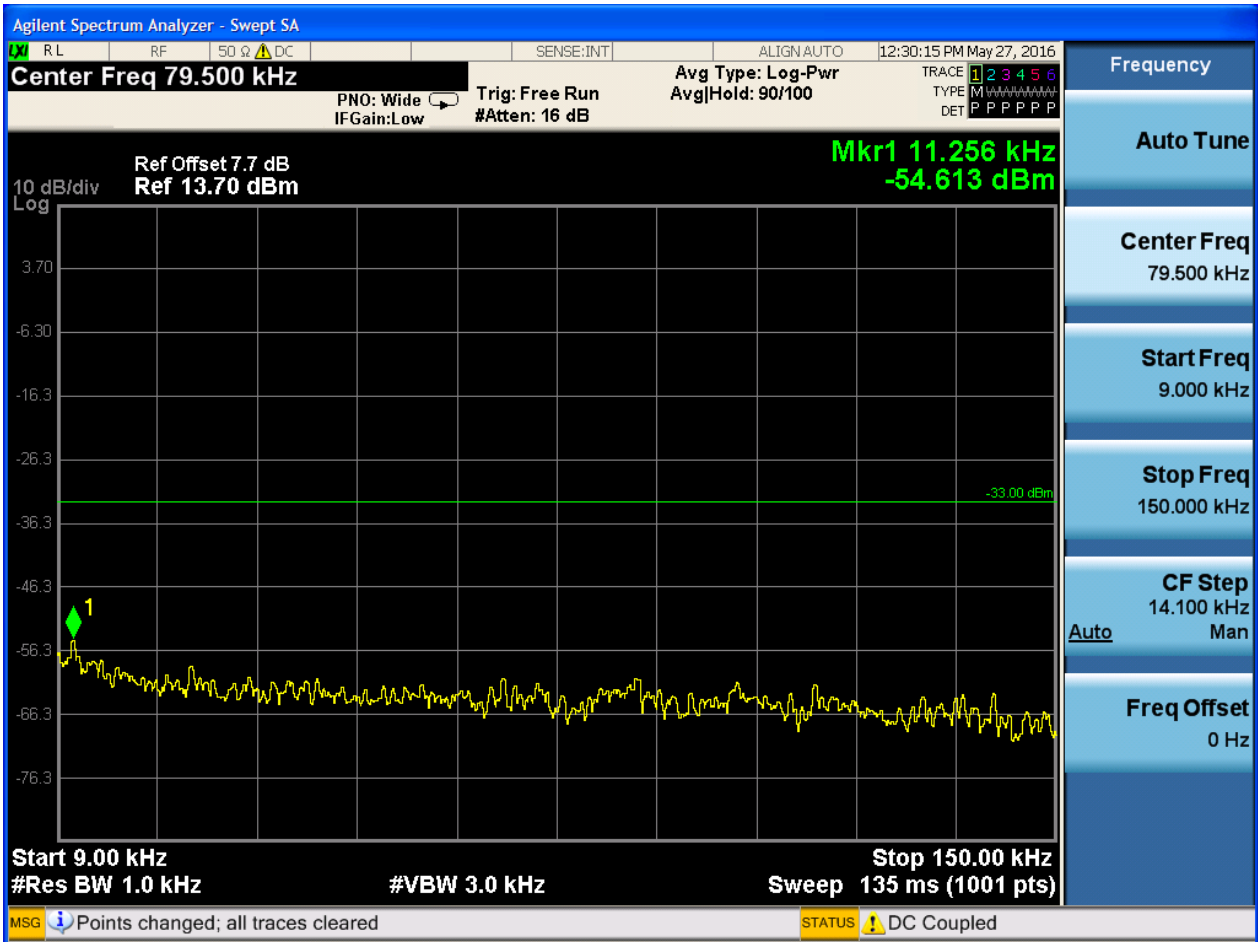


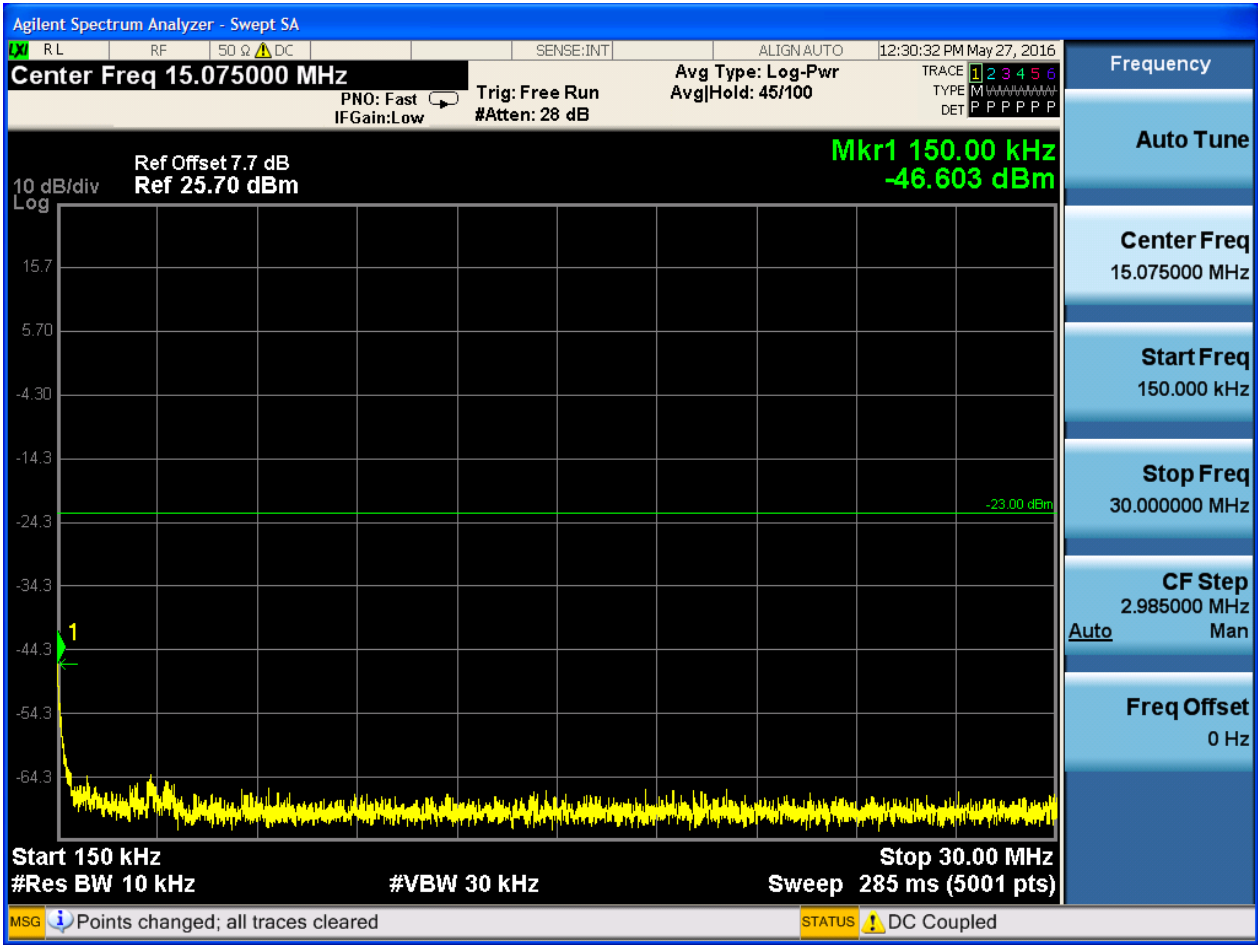


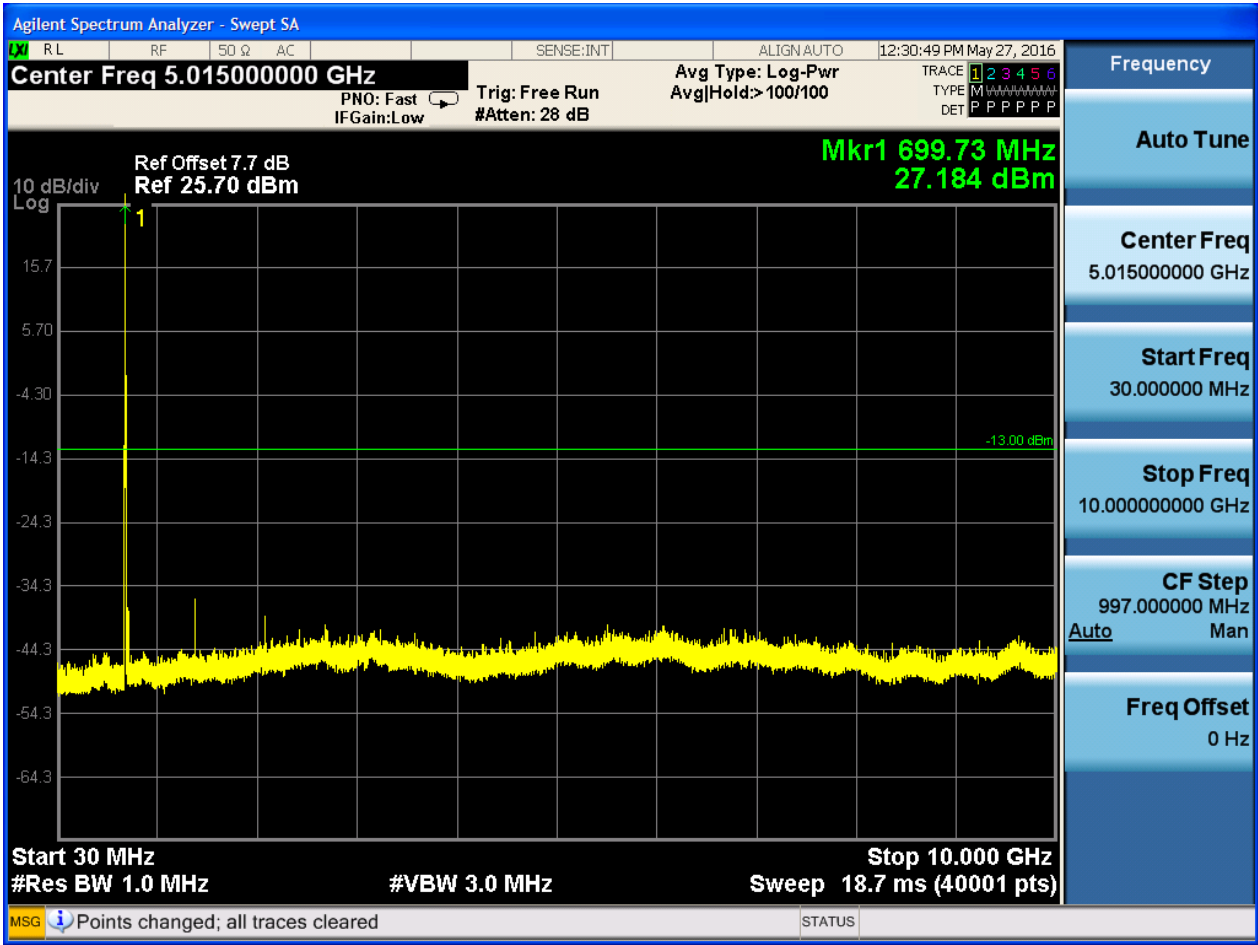
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



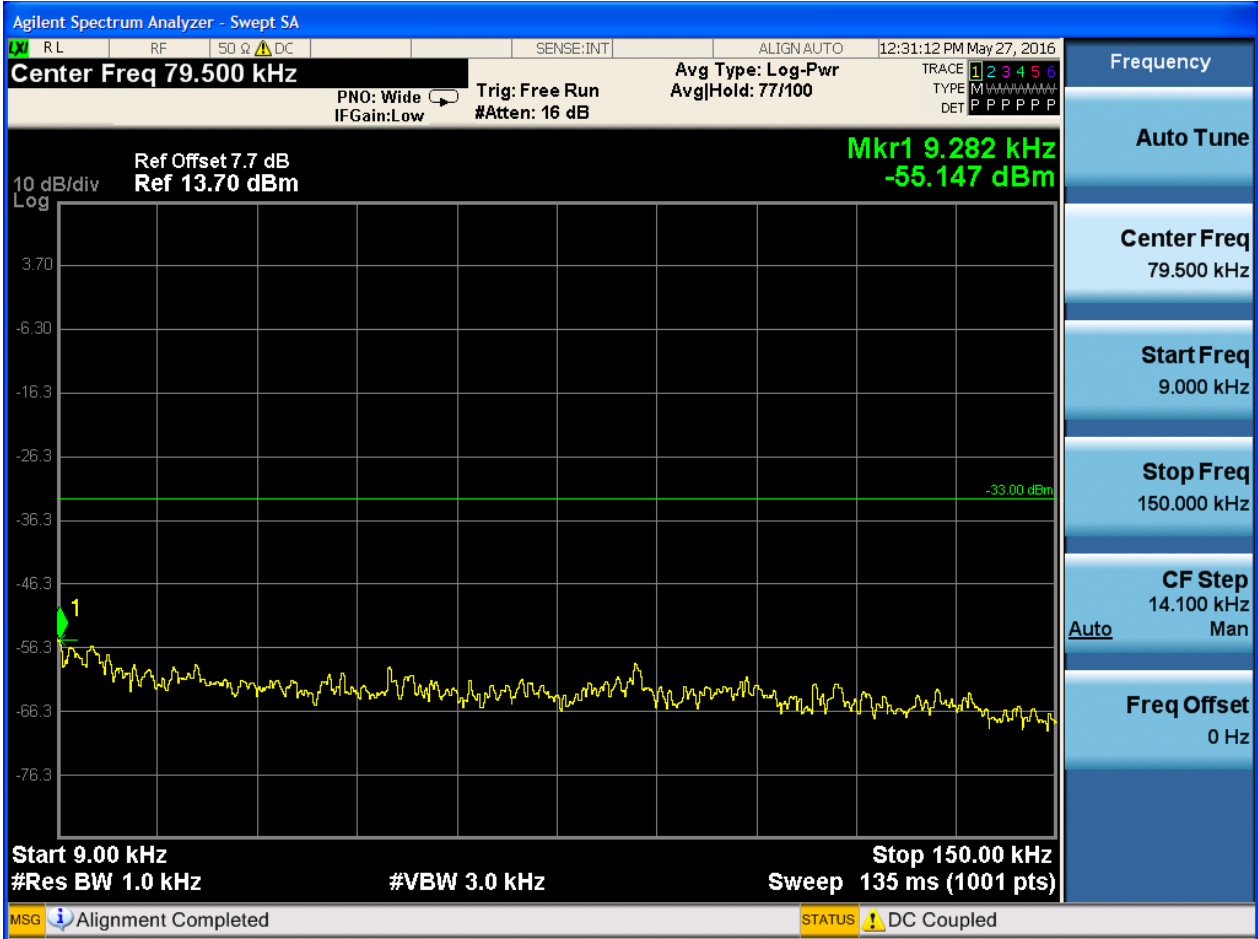


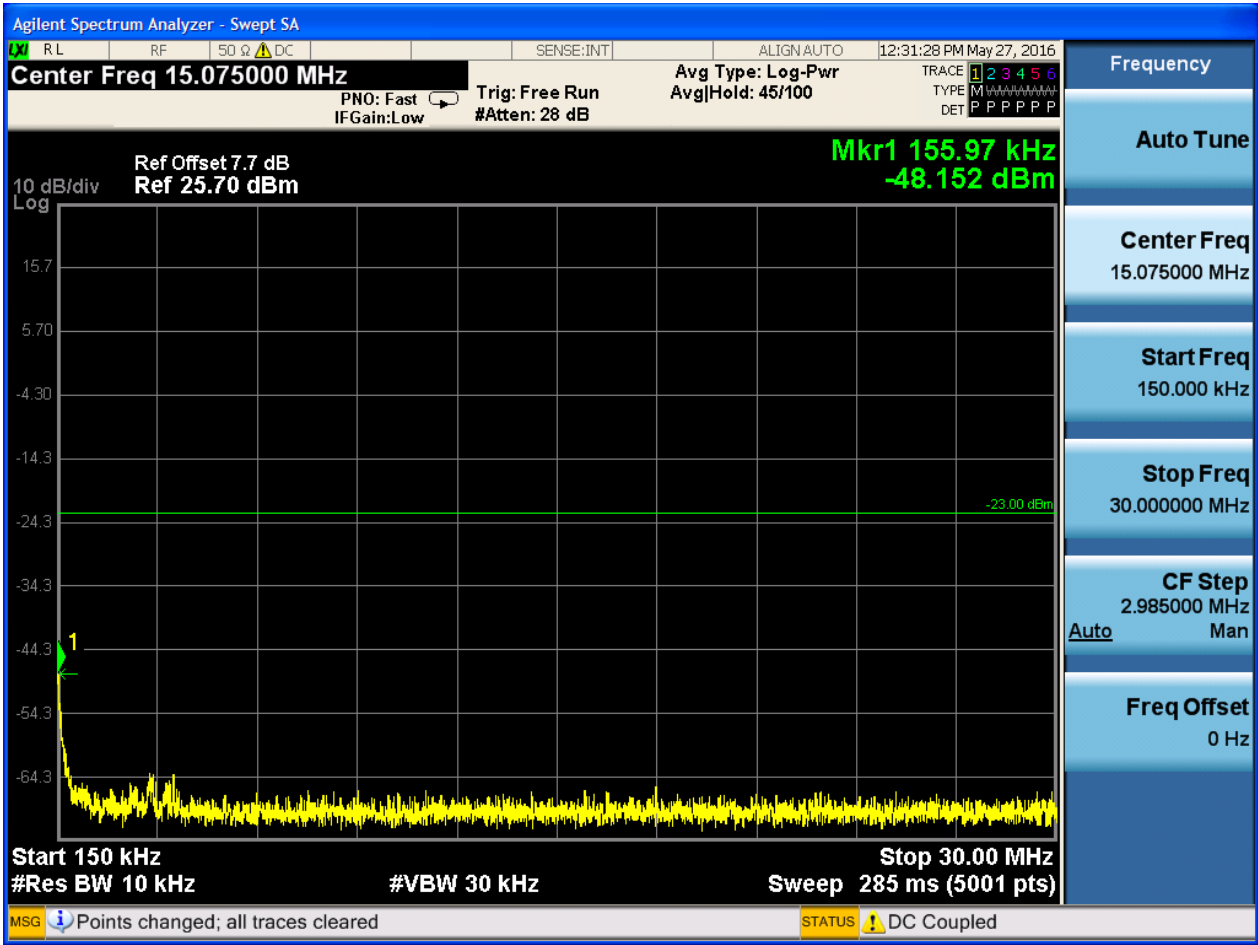


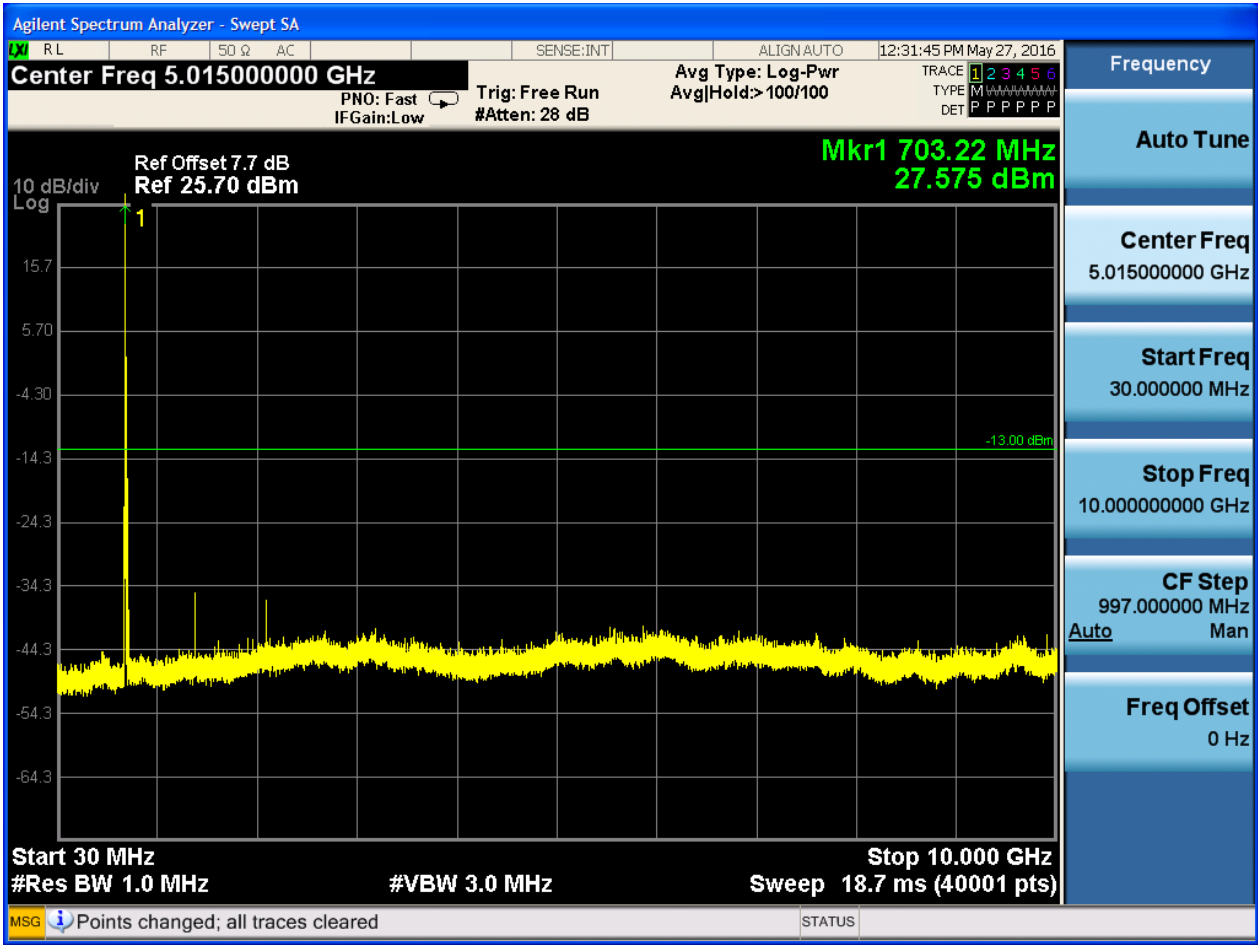


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



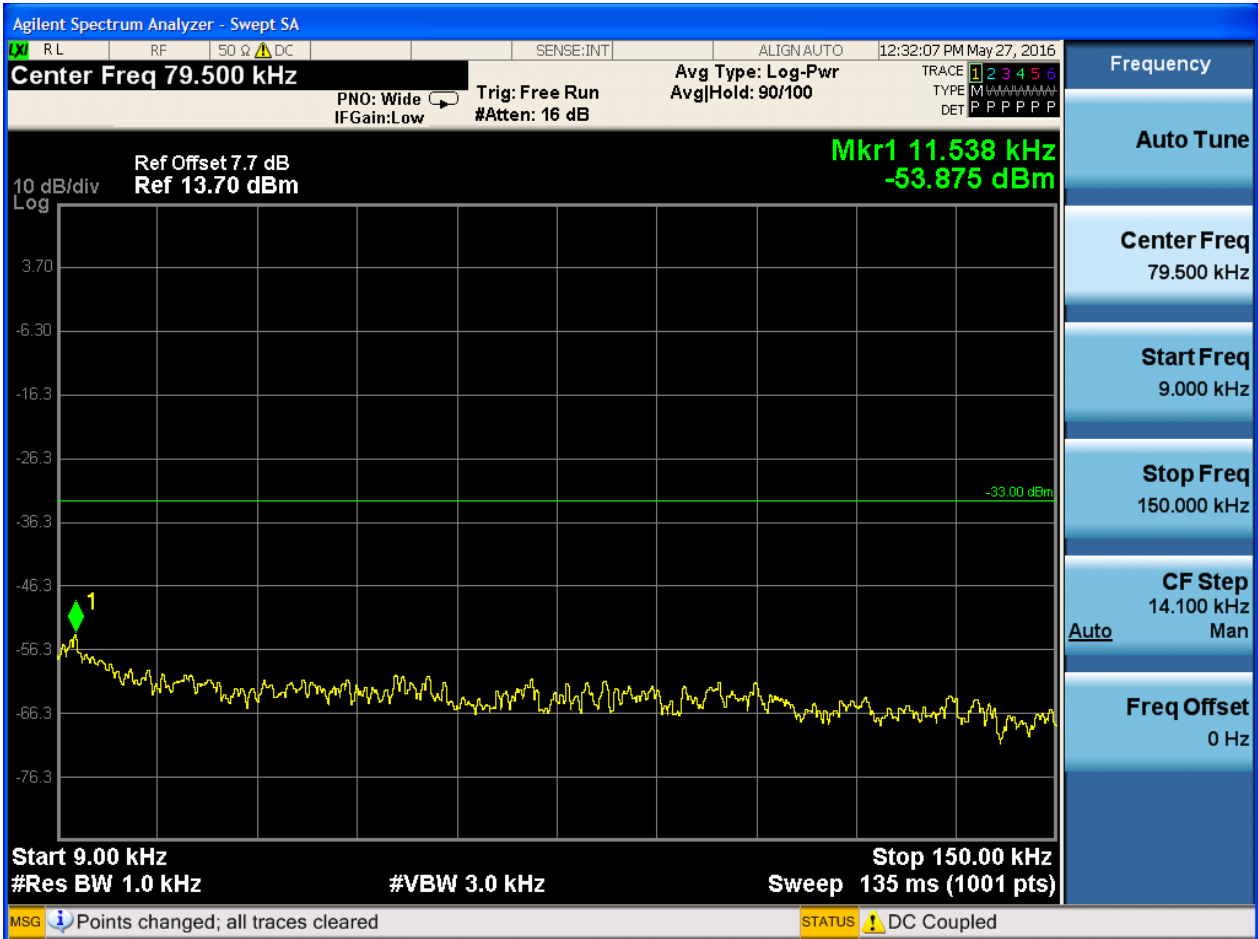


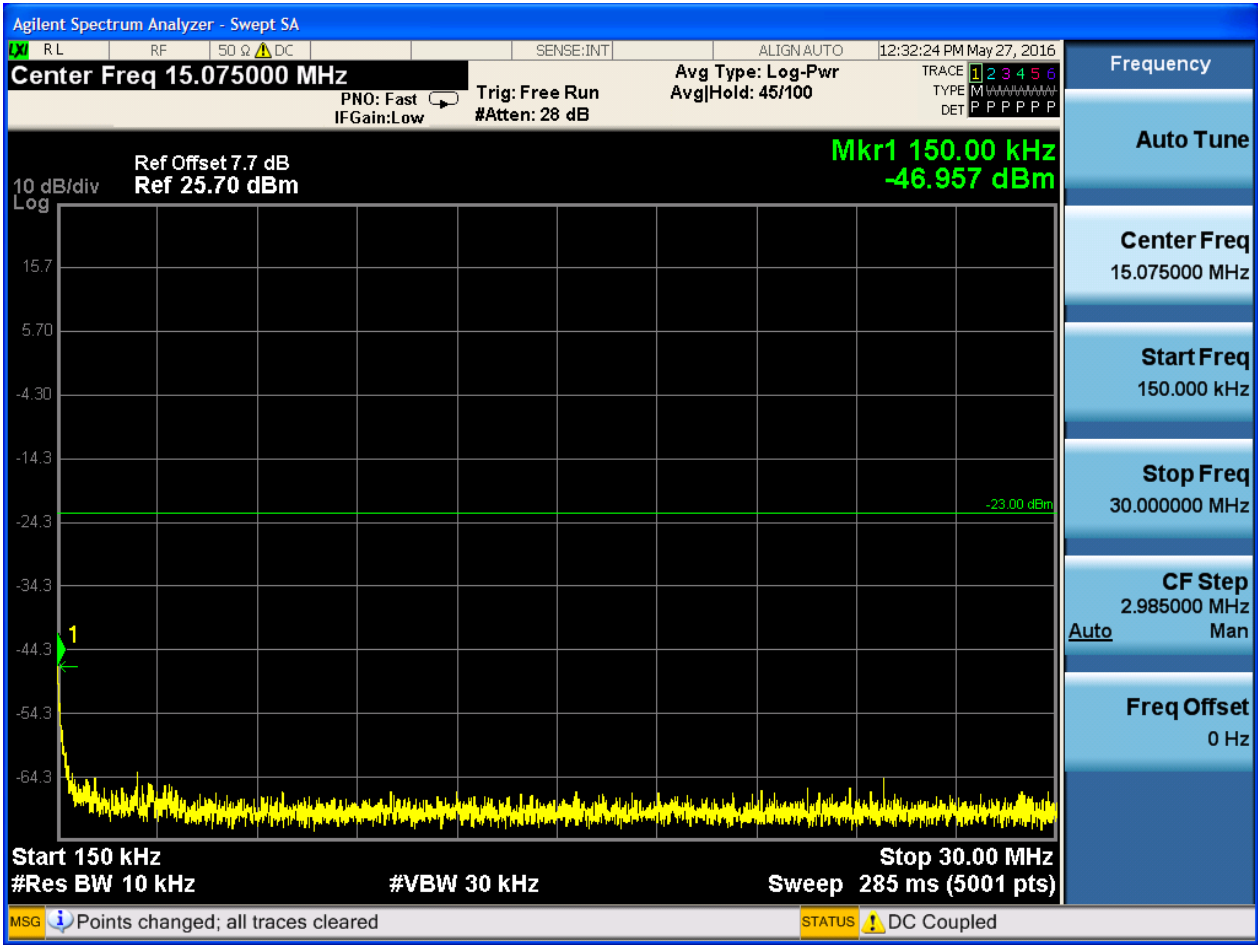


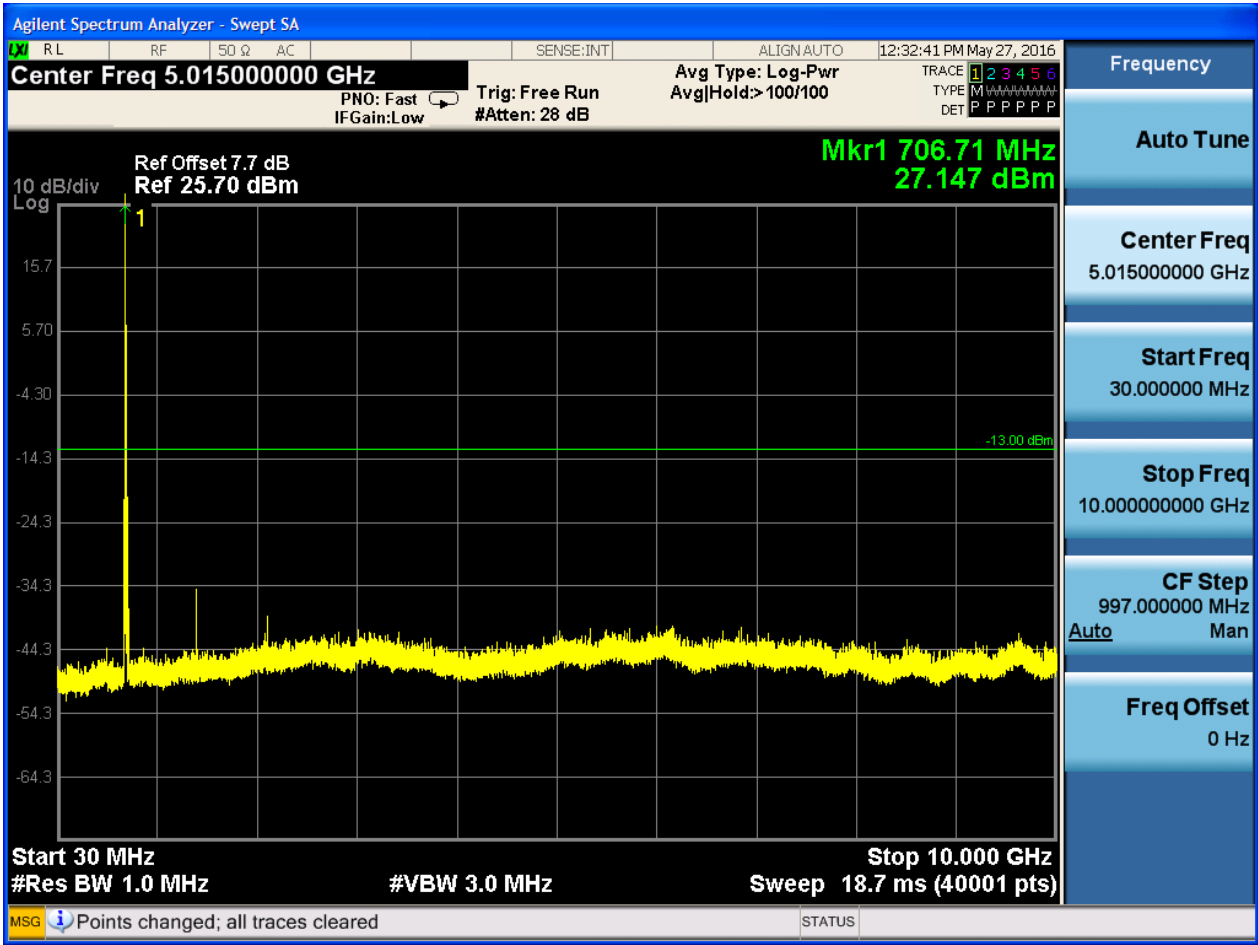


6.1.1.2.4.3 Test Channel = HCH

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

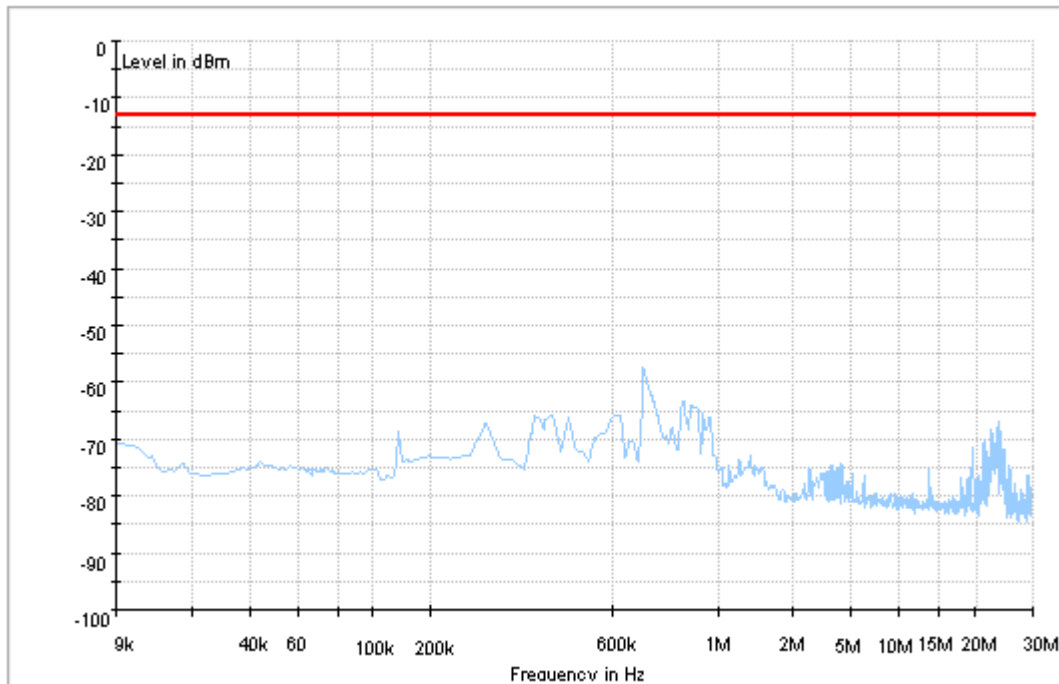
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

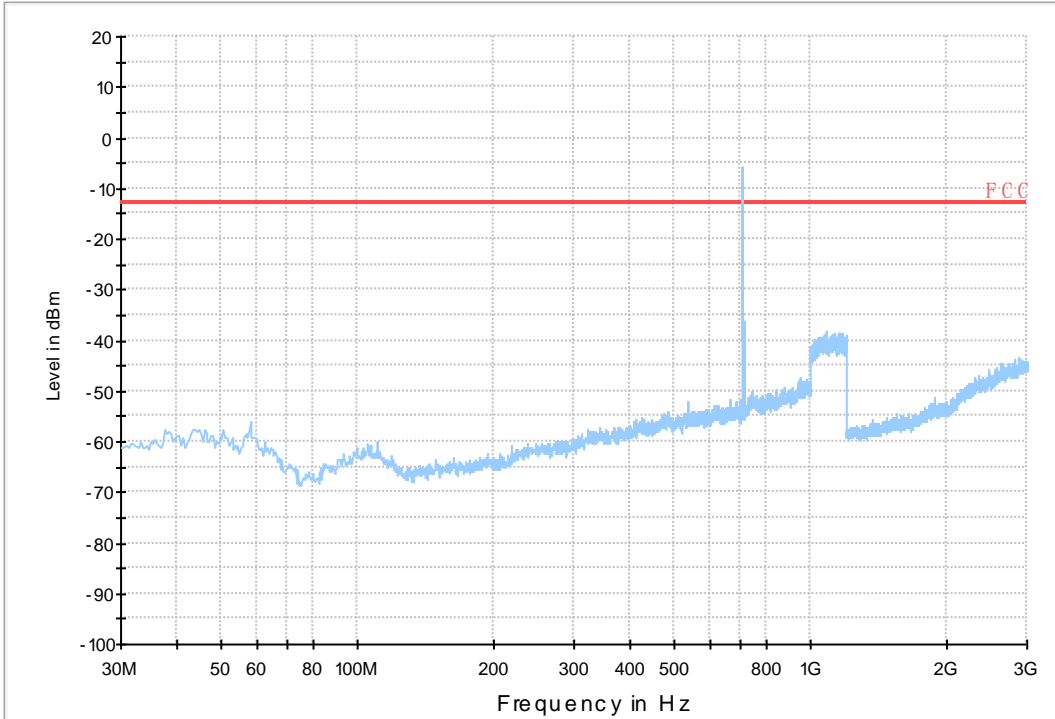
7.1 For LTE

7.1.1 Test Band = BAND12_Ant1

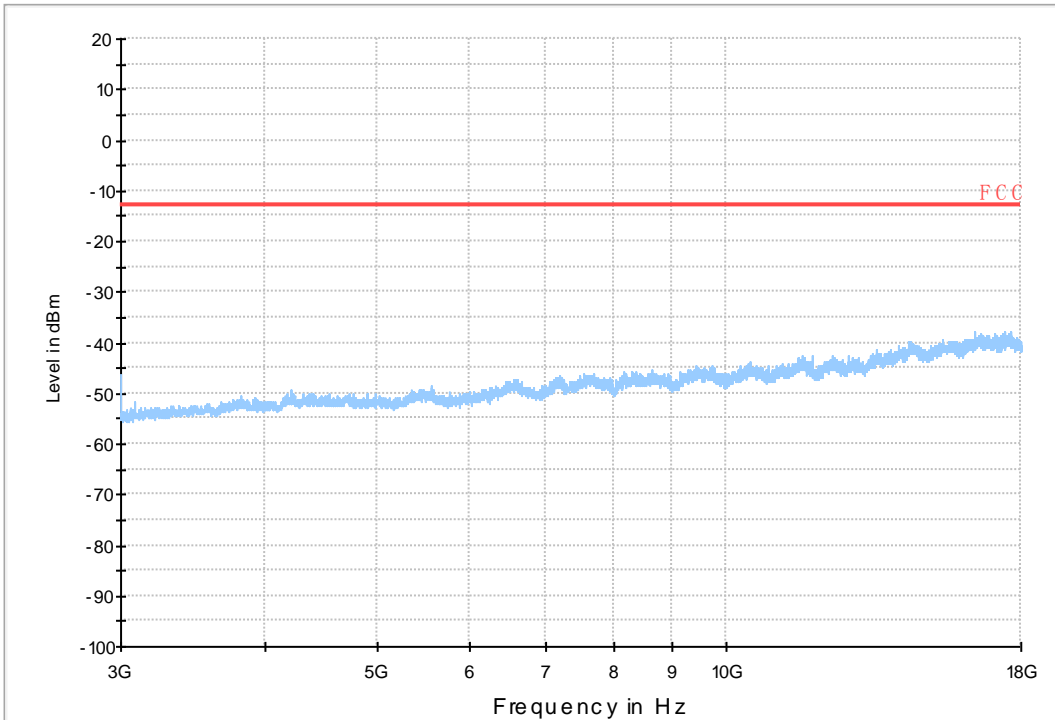
7.1.1.1 Test Bandwidth = 1.4



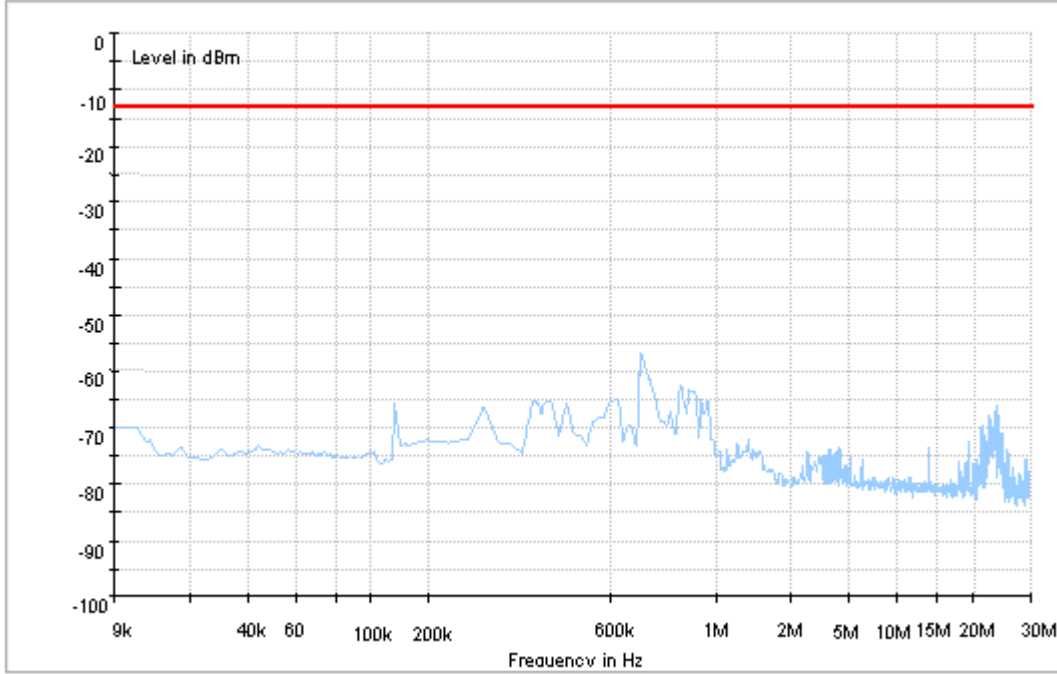
Copy of RSE-TX-DIRECTOR BELOW 1G_L



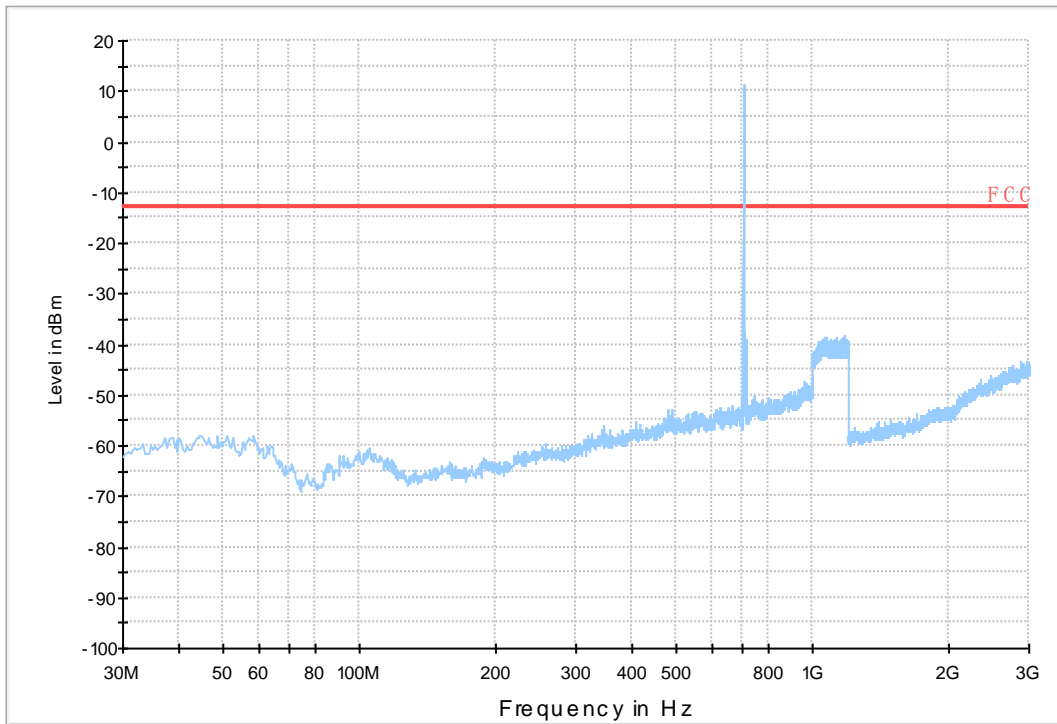
Copy of RSE-TX-DIRECTOR BELOW 1G_H



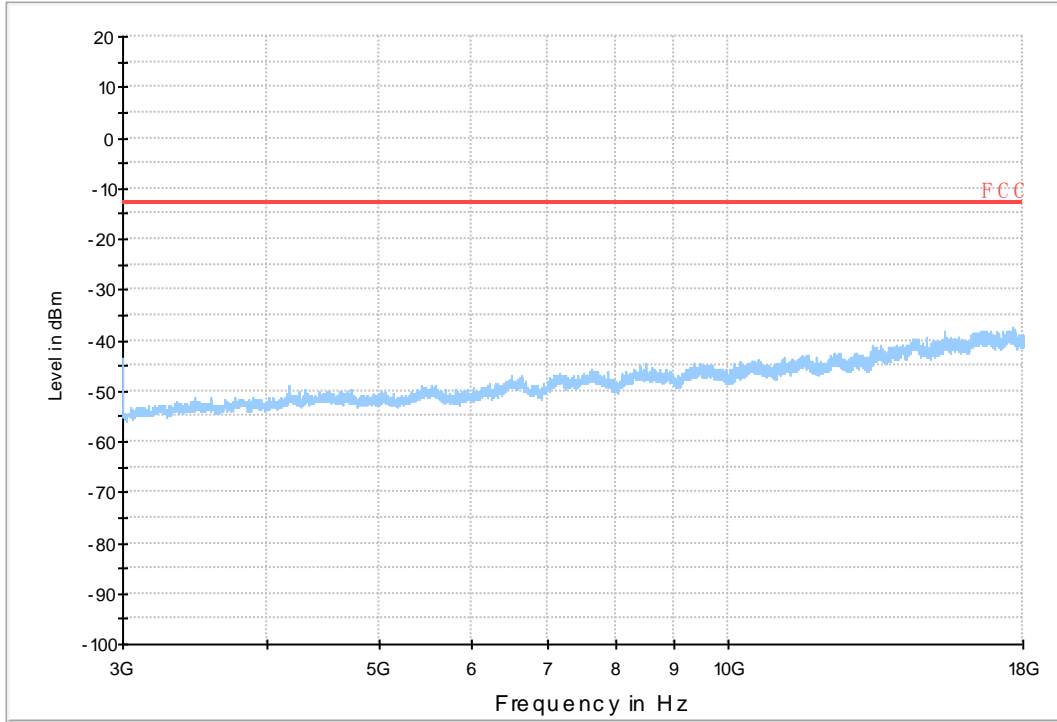
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

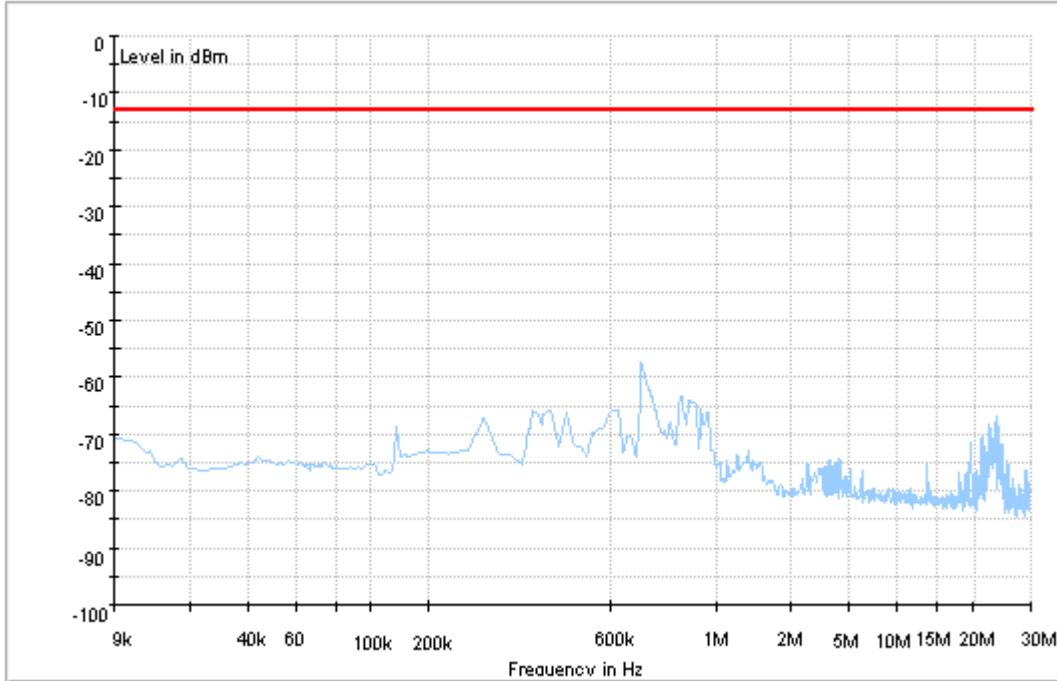


Copy of RSE-TX-DIRECTOR BELOW 1G_H

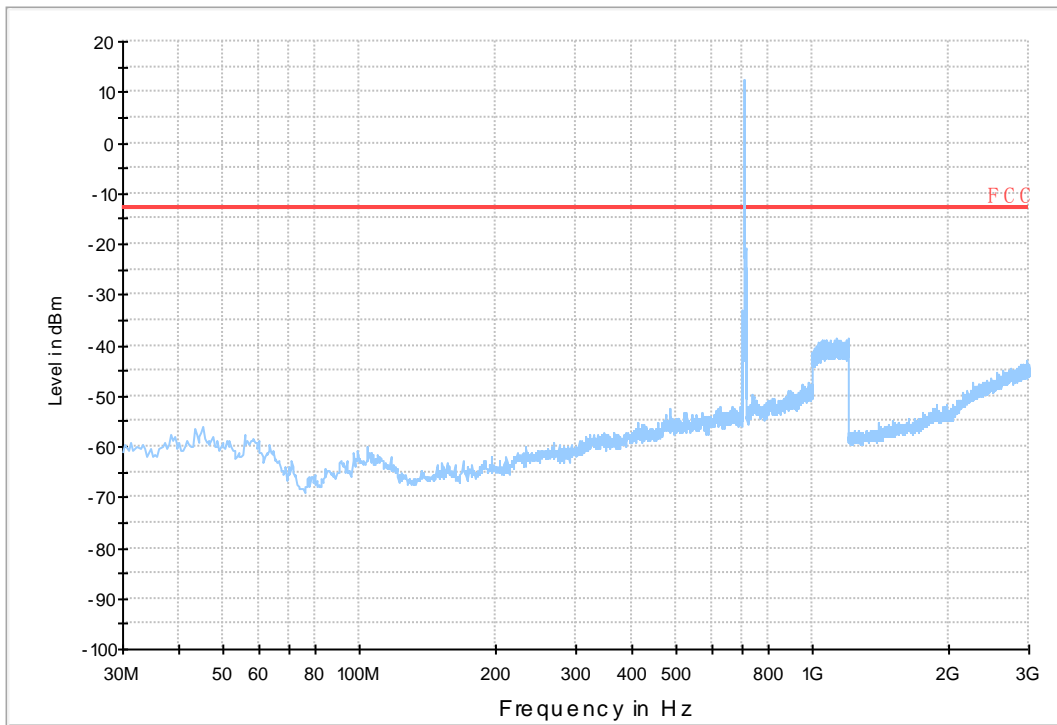


7.1.2 Test Band = BAND12_Ant2

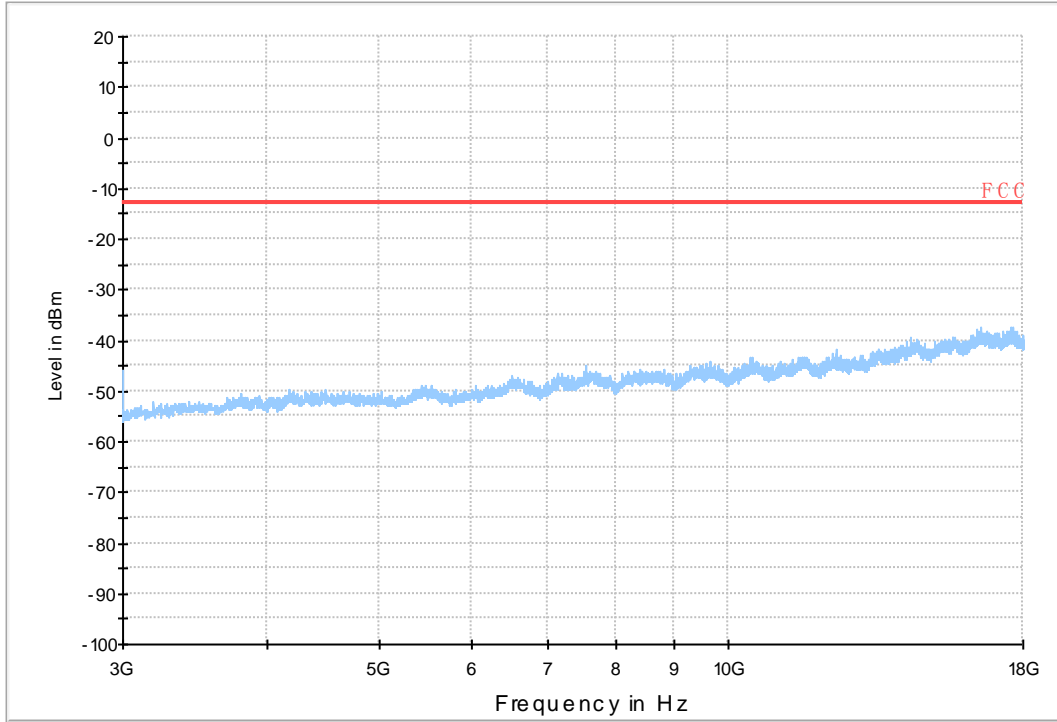
7.1.2.1 Test Bandwidth = 1.4



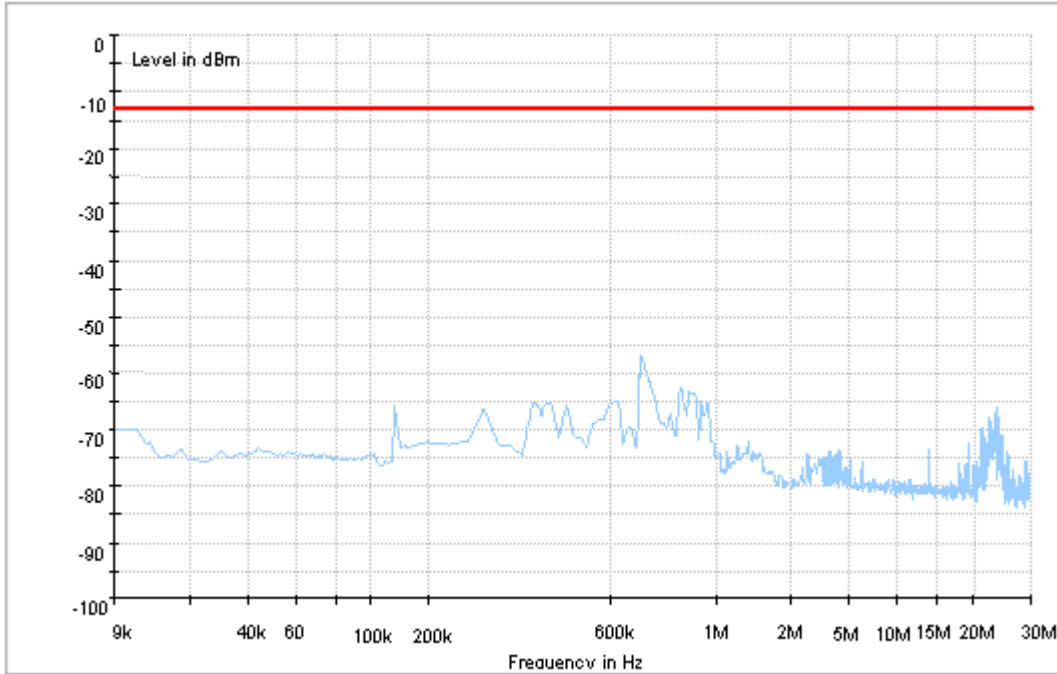
Copy of RSE-TX-DIRECTOR BELOW 1G_L



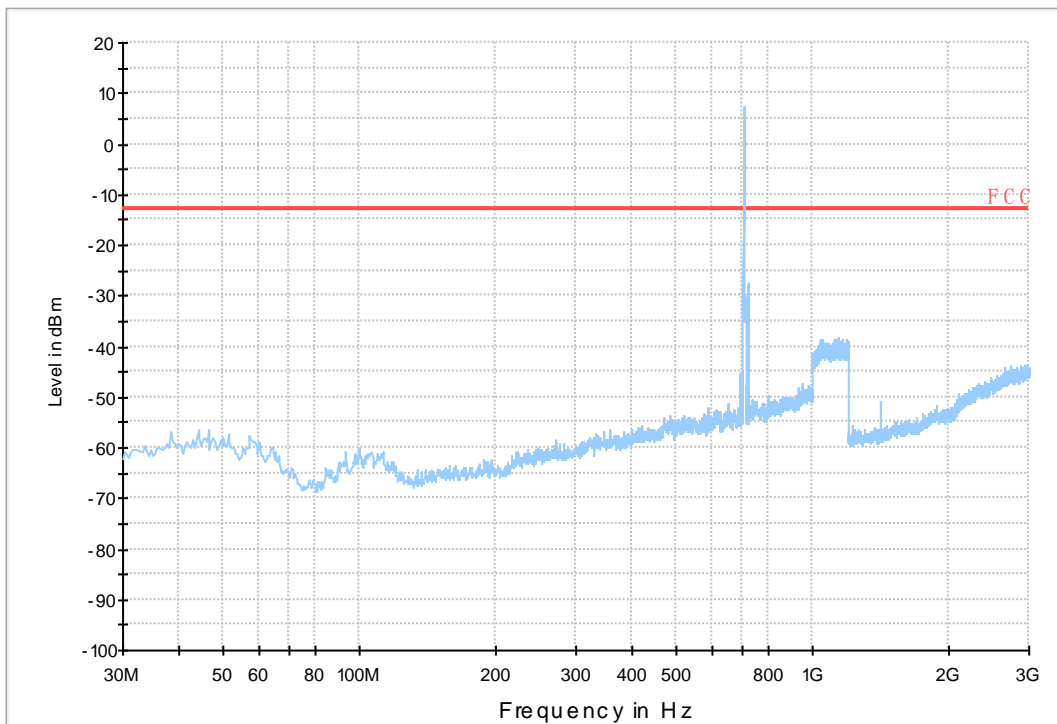
Copy of RSE-TX-DIRECTOR BELOW 1G_H



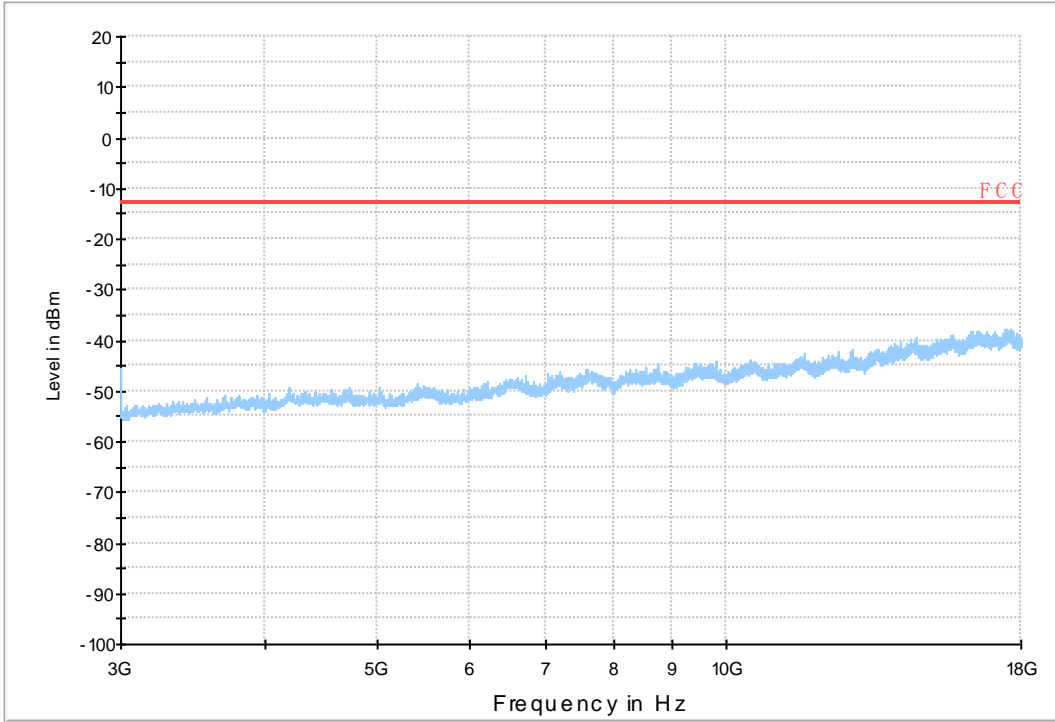
7.1.2.2 Test Bandwidth = 10



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	-14.09	-0.02014	PASS
					VN	-14.38	-0.02055	PASS
					VH	-7.22	-0.01032	PASS
			MCH	TN	VL	-3.13	-0.00442	PASS
					VN	-1.37	-0.00194	PASS
					VH	-2.62	-0.0037	PASS
			HCH	TN	VL	-12.36	-0.01728	PASS
					VN	-3.85	-0.00538	PASS
					VH	-8.96	-0.01253	PASS
		3	LCH	TN	VL	7.61	0.01086	PASS
					VN	-3.65	-0.00521	PASS
					VH	-5.72	-0.00817	PASS
			MCH	TN	VL	0.17	0.00024	PASS
					VN	-1.6	-0.00226	PASS
					VH	-4.09	-0.00578	PASS
			HCH	TN	VL	-0.59	-0.00083	PASS
					VN	2.03	0.00284	PASS
					VH	-0.86	-0.0012	PASS
		5	LCH	TN	VL	-2.26	-0.00322	PASS
					VN	-0.24	-0.00034	PASS
					VH	-3.12	-0.00445	PASS
			MCH	TN	VL	-1.34	-0.00189	PASS
					VN	-3.86	-0.00546	PASS
					VH	-3.43	-0.00485	PASS
			HCH	TN	VL	0.4	0.00056	PASS
					VN	-0.13	-0.00018	PASS
					VH	0.17	0.00024	PASS
10	LCH	TN	VL	2.4	0.00341	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VN	2.76	0.00392	PASS
					VH	-0.11	-0.00016	PASS
					VL	0.6	0.00085	PASS
					VN	-0.39	-0.00055	PASS
					VH	1.56	0.0022	PASS
					VL	0.62	0.00087	PASS
			HCH	TN	VN	-0.79	-0.00111	PASS
					VH	0.34	0.00048	PASS
					VL	-2.73	-0.0039	PASS
					VN	-10.96	-0.01566	PASS
					VH	-0.43	-0.00061	PASS
					VL	4.22	0.00596	PASS
	1.4	MCH	TN	VN	-9.97	-0.01409	PASS	
				VH	-10.6	-0.01498	PASS	
				VL	-9.24	-0.01292	PASS	
				VN	-3.79	-0.0053	PASS	
				VH	-3.93	-0.00549	PASS	
				VL	1.37	0.00196	PASS	
		3	LCH	TN	VN	-0.82	-0.00117	PASS
					VH	-6.37	-0.00909	PASS
					VL	-9.66	-0.01365	PASS
					VN	-2.62	-0.0037	PASS
					VH	3.1	0.00438	PASS
					VL	3.58	0.00501	PASS
	5		HCH	TN	VN	3.55	0.00497	PASS
					VH	-4.61	-0.00645	PASS
					VL	-1.43	-0.00204	PASS
					VN	-0.27	-0.00038	PASS
					VH	-0.73	-0.00104	PASS
					VL	-1.63	-0.0023	PASS
		10	MCH	TN	VN	3.42	0.00483	PASS
					VH	-2.69	-0.0038	PASS
					VL	2.05	0.00287	PASS
					VN	-0.72	-0.00101	PASS
					VH	1.7	0.00238	PASS
					VL	-0.84	-0.00119	PASS
	LCH		TN	VN	-3.55	-0.00504	PASS	
				VH	-0.37	-0.00053	PASS	
				VL	2.53	0.00358	PASS	
				VN				
				VH				
				VL				

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-0.01	-0.00001	PASS
					VH	-3.78	-0.00534	PASS
			HCH	TN	VL	-1.43	-0.00201	PASS
					VN	0.11	0.00015	PASS
					VH	0.94	0.00132	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	-7.15	-0.01022	PASS	
					-20	10.17	0.01453	PASS	
					-10	-16.58	-0.0237	PASS	
					0	-0.59	-0.00084	PASS	
					10	-1.12	-0.0016	PASS	
					20	2.45	0.0035	PASS	
					30	14.33	0.02048	PASS	
					40	1.07	0.00153	PASS	
					50	0.21	0.0003	PASS	
			MCH	VN	-30	0.87	0.00123	PASS	
					-20	18.53	0.02619	PASS	
					-10	3.1	0.00438	PASS	
					0	-0.53	-0.00075	PASS	
					10	-9.56	-0.01351	PASS	
					20	-7.18	-0.01015	PASS	
					30	-8.27	-0.01169	PASS	
					40	0.26	0.00037	PASS	
					50	2.9	0.0041	PASS	
			HCH	VN	-30	-10.27	-0.01436	PASS	
					-20	-19.13	-0.02674	PASS	
					-10	-3.03	-0.00424	PASS	
					0	-4.31	-0.00603	PASS	
					10	1.16	0.00162	PASS	
					20	-4.96	-0.00693	PASS	
					30	-1.46	-0.00204	PASS	
					40	-6.87	-0.0096	PASS	
					50	7.27	0.01016	PASS	
		3		LCH	VN	-30	3.95	0.00564	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-20	2.23	0.00318	PASS	
					-10	-5.64	-0.00805	PASS	
					0	1.24	0.00177	PASS	
					10	-5.08	-0.00725	PASS	
					20	1.34	0.00191	PASS	
					30	2.55	0.00364	PASS	
					40	-5.06	-0.00722	PASS	
					50	-0.16	-0.00023	PASS	
			MCH	VN	-30	-0.06	-0.00008	PASS	
					-20	2.19	0.0031	PASS	
					-10	-2.47	-0.00349	PASS	
					0	2.88	0.00407	PASS	
					10	-2.35	-0.00332	PASS	
					20	-0.79	-0.00112	PASS	
					30	-0.16	-0.00023	PASS	
					40	1.1	0.00155	PASS	
			HCH	VN	-30	0.3	0.00042	PASS	
					-20	0.53	0.00074	PASS	
					-10	1.95	0.00273	PASS	
					0	-0.47	-0.00066	PASS	
					10	4.21	0.00589	PASS	
					20	3.71	0.00519	PASS	
					30	-2.35	-0.00329	PASS	
					40	1.69	0.00237	PASS	
			5	LCH	VN	-30	0.13	0.00019	PASS
						-20	-0.59	-0.00084	PASS
						-10	-0.83	-0.00118	PASS
						0	-1.65	-0.00235	PASS
		10				0.39	0.00056	PASS	
		20				-2.49	-0.00355	PASS	
		30				-1.22	-0.00174	PASS	
		40				0.2	0.00029	PASS	
		50		-0.8	-0.00114	PASS			
		MCH		VN	-30	-2.65	-0.00375	PASS	
					-20	0.04	0.00006	PASS	
					-10	1.9	0.00269	PASS	
			0		-1.53	-0.00216	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-3.62	-0.00512	PASS		
					20	-0.57	-0.00081	PASS		
					30	0.92	0.0013	PASS		
					40	1.19	0.00168	PASS		
					50	0.33	0.00047	PASS		
			HCH	VN	-30	-7.15	-0.01022	PASS		
					-20	10.17	0.01453	PASS		
					-10	-16.58	-0.0237	PASS		
					0	-0.59	-0.00084	PASS		
					10	-1.12	-0.0016	PASS		
					20	2.45	0.0035	PASS		
					30	14.33	0.02048	PASS		
					40	1.07	0.00153	PASS		
					50	0.21	0.0003	PASS		
					LCH	VN	-30	0.87	0.00123	PASS
							-20	18.53	0.02619	PASS
							-10	3.1	0.00438	PASS
							0	-0.53	-0.00075	PASS
		10	-9.56	-0.01351			PASS			
		20	-7.18	-0.01015			PASS			
		30	-8.27	-0.01169			PASS			
		40	0.26	0.00037			PASS			
		50	2.9	0.0041			PASS			
		MCH	VN	-30	-10.27	-0.01436	PASS			
				-20	-19.13	-0.02674	PASS			
				-10	-3.03	-0.00424	PASS			
				0	-4.31	-0.00603	PASS			
				10	1.16	0.00162	PASS			
				20	-4.96	-0.00693	PASS			
				30	-1.46	-0.00204	PASS			
				40	-6.87	-0.0096	PASS			
				50	7.27	0.01016	PASS			
		HCH	VN	-30	3.95	0.00564	PASS			
				-20	2.23	0.00318	PASS			
				-10	-5.64	-0.00805	PASS			
				0	1.24	0.00177	PASS			
10	-5.08			-0.00725	PASS					
20	1.34			0.00191	PASS					
30	2.55			0.00364	PASS					
10										

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	40	-5.06	-0.00722	PASS
					50	-0.16	-0.00023	PASS
					-30	-0.06	-0.00008	PASS
					-20	2.19	0.0031	PASS
					-10	-2.47	-0.00349	PASS
					0	2.88	0.00407	PASS
					10	-2.35	-0.00332	PASS
					20	-0.79	-0.00112	PASS
					30	-0.16	-0.00023	PASS
			40	1.1	0.00155	PASS		
			50	2.69	0.0038	PASS		
			MCH	VN	-30	0.3	0.00042	PASS
					-20	0.53	0.00074	PASS
					-10	1.95	0.00273	PASS
					0	-0.47	-0.00066	PASS
					10	4.21	0.00589	PASS
					20	3.71	0.00519	PASS
					30	-2.35	-0.00329	PASS
		40			1.69	0.00237	PASS	
		50			-1.67	-0.00234	PASS	
		HCH	VN	-30	0.13	0.00019	PASS	
				-20	-0.59	-0.00084	PASS	
				-10	-0.83	-0.00118	PASS	
				0	-1.65	-0.00235	PASS	
				10	0.39	0.00056	PASS	
				20	-2.49	-0.00355	PASS	
				30	-1.22	-0.00174	PASS	
				40	0.2	0.00029	PASS	
				50	-0.8	-0.00114	PASS	
		3	LCH	VN	-30	-2.65	-0.00375	PASS
					-20	0.04	0.00006	PASS
					-10	1.9	0.00269	PASS
					0	-1.53	-0.00216	PASS
10	-3.62				-0.00512	PASS		
20	-0.57				-0.00081	PASS		
30	0.92				0.0013	PASS		
40	1.19				0.00168	PASS		
50	0.33				0.00047	PASS		
MCH	VN		-30	-7.15	-0.01022	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	10.17	0.01453	PASS		
					-10	-16.58	-0.0237	PASS		
					0	-0.59	-0.00084	PASS		
					10	-1.12	-0.0016	PASS		
					20	2.45	0.0035	PASS		
					30	14.33	0.02048	PASS		
					40	1.07	0.00153	PASS		
					50	0.21	0.0003	PASS		
			HCH	VN	-30	0.87	0.00123	PASS		
					-20	18.53	0.02619	PASS		
					-10	3.1	0.00438	PASS		
					0	-0.53	-0.00075	PASS		
					10	-9.56	-0.01351	PASS		
					20	-7.18	-0.01015	PASS		
		LCH	VN	-30	-10.27	-0.01436	PASS			
				-20	-19.13	-0.02674	PASS			
				-10	-3.03	-0.00424	PASS			
				0	-4.31	-0.00603	PASS			
				10	1.16	0.00162	PASS			
				20	-4.96	-0.00693	PASS			
				30	-1.46	-0.00204	PASS			
				40	-6.87	-0.0096	PASS			
		MCH	VN	50	7.27	0.01016	PASS			
				-30	3.95	0.00564	PASS			
				-20	2.23	0.00318	PASS			
				-10	-5.64	-0.00805	PASS			
				0	1.24	0.00177	PASS			
				10	-5.08	-0.00725	PASS			
				20	1.34	0.00191	PASS			
				30	2.55	0.00364	PASS			
		HCH	VN	40	-5.06	-0.00722	PASS			
				50	-0.16	-0.00023	PASS			
				-30	-0.06	-0.00008	PASS			
				-20	2.19	0.0031	PASS			
				5			-10	-2.47	-0.00349	PASS
							0	2.88	0.00407	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-2.35	-0.00332	PASS		
					20	-0.79	-0.00112	PASS		
					30	-0.16	-0.00023	PASS		
					40	1.1	0.00155	PASS		
					50	2.69	0.0038	PASS		
		10	LCH	VN	-30	0.3	0.00042	PASS		
					-20	0.53	0.00074	PASS		
					-10	1.95	0.00273	PASS		
					0	-0.47	-0.00066	PASS		
					10	4.21	0.00589	PASS		
					20	3.71	0.00519	PASS		
					30	-2.35	-0.00329	PASS		
					40	1.69	0.00237	PASS		
					50	-1.67	-0.00234	PASS		
					MCH	VN	-30	0.13	0.00019	PASS
							-20	-0.59	-0.00084	PASS
							-10	-0.83	-0.00118	PASS
							0	-1.65	-0.00235	PASS
							10	0.39	0.00056	PASS
							20	-2.49	-0.00355	PASS
			30	-1.22			-0.00174	PASS		
			40	0.2			0.00029	PASS		
			HCH	VN	50	-0.8	-0.00114	PASS		
					-30	-2.65	-0.00375	PASS		
					-20	0.04	0.00006	PASS		
					-10	1.9	0.00269	PASS		
					0	-1.53	-0.00216	PASS		
					10	-3.62	-0.00512	PASS		
					20	-0.57	-0.00081	PASS		
					30	0.92	0.0013	PASS		
					40	1.19	0.00168	PASS		
			50	0.33	0.00047	PASS				

END