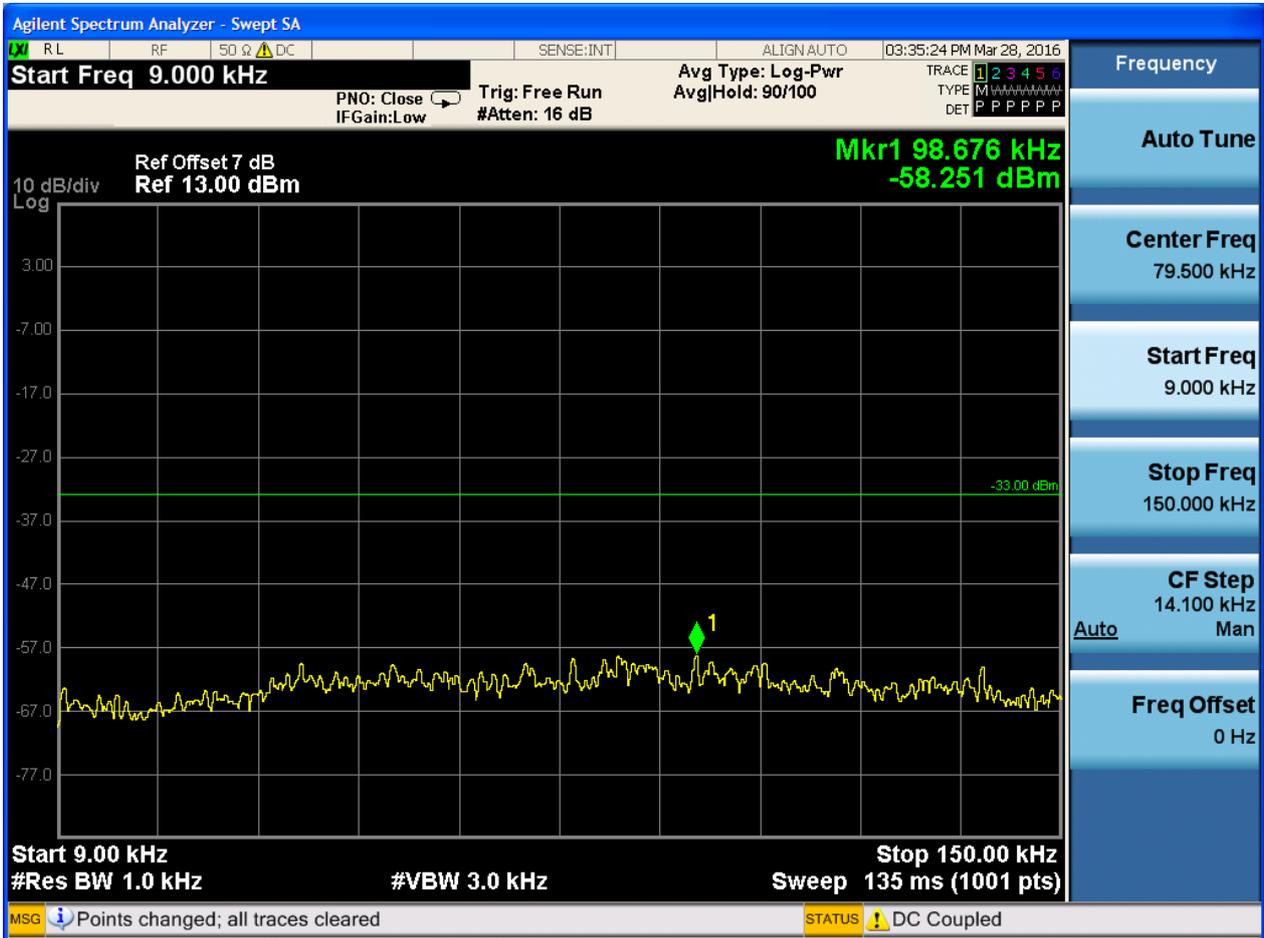
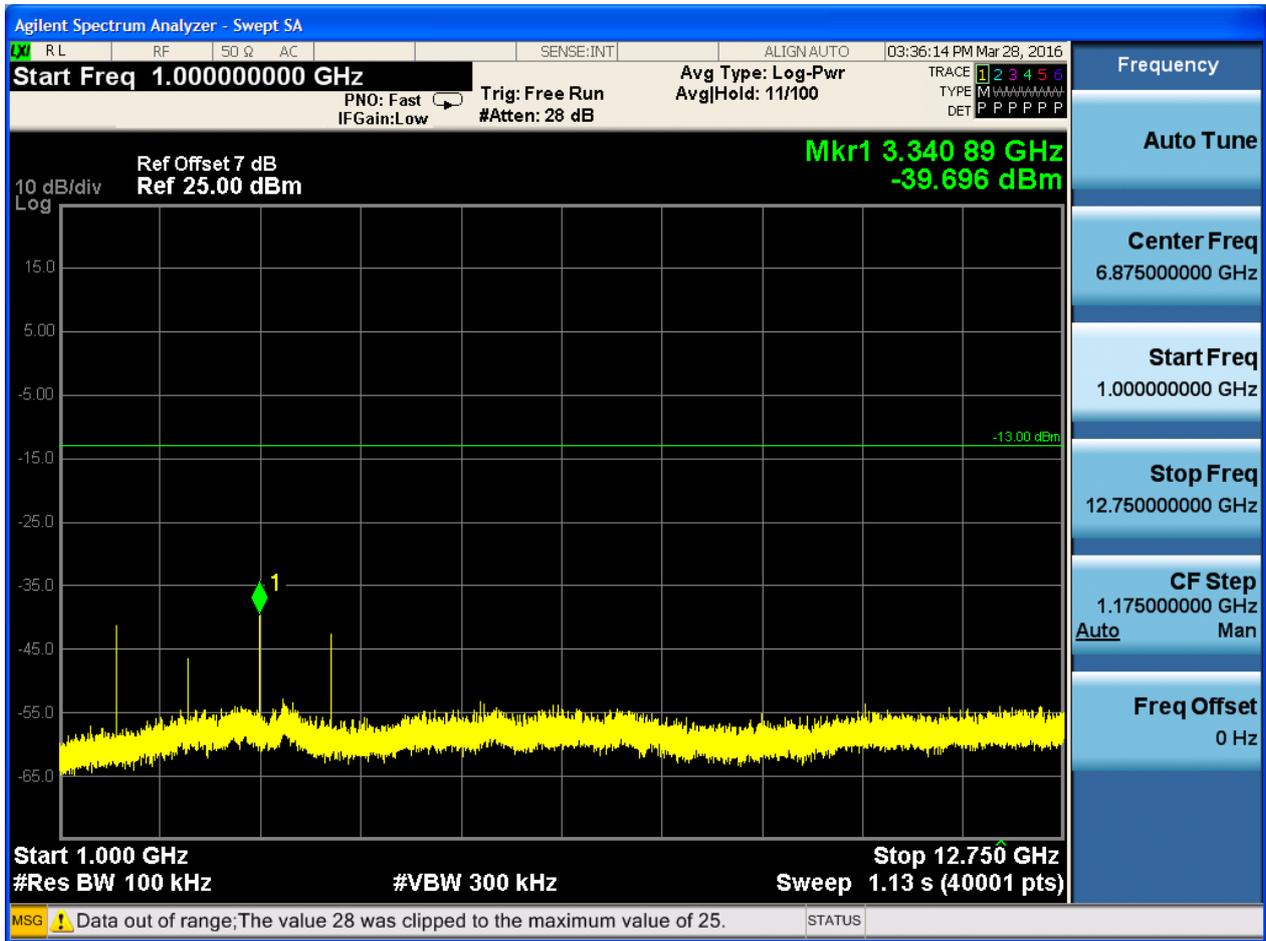




6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

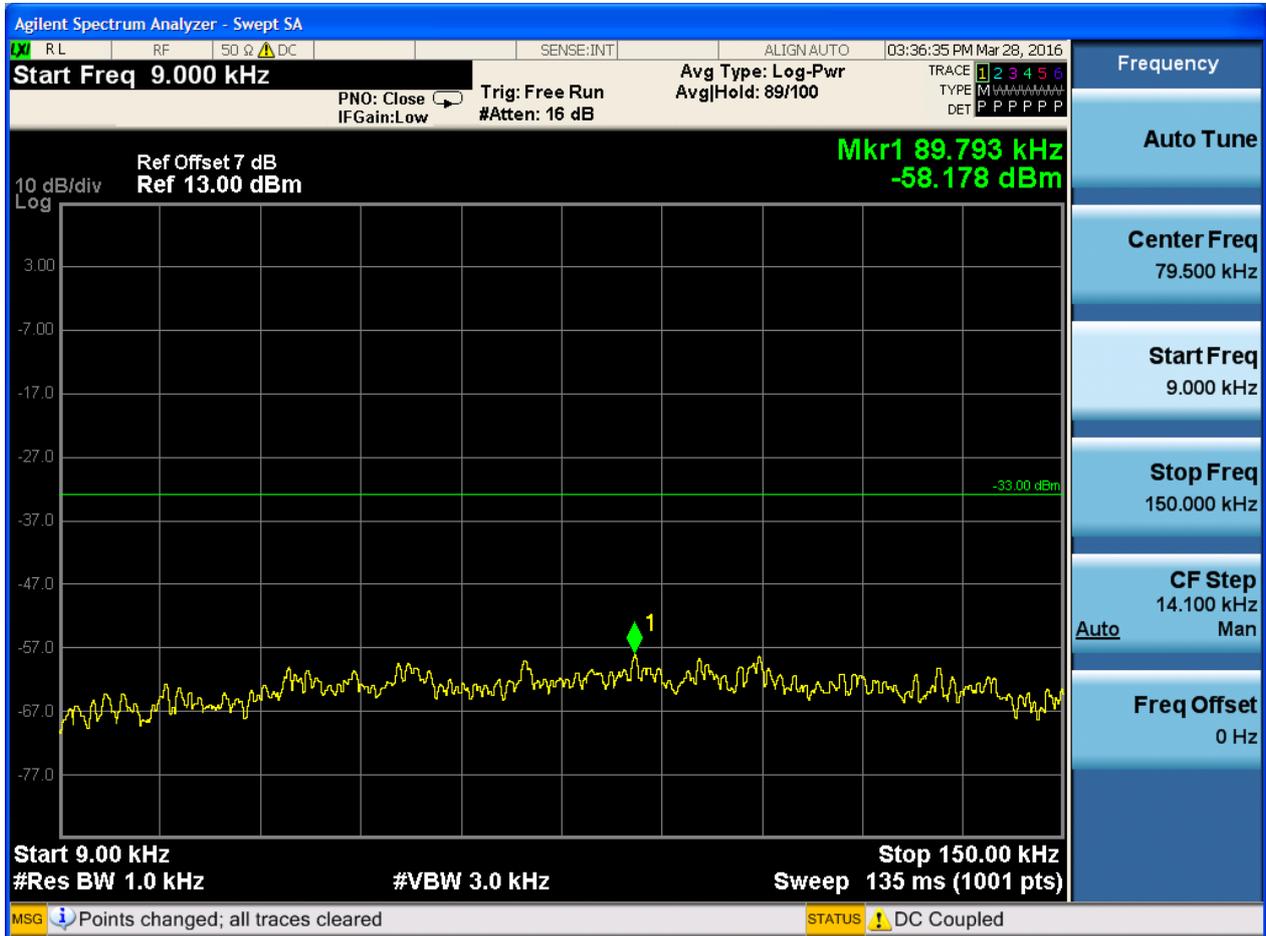


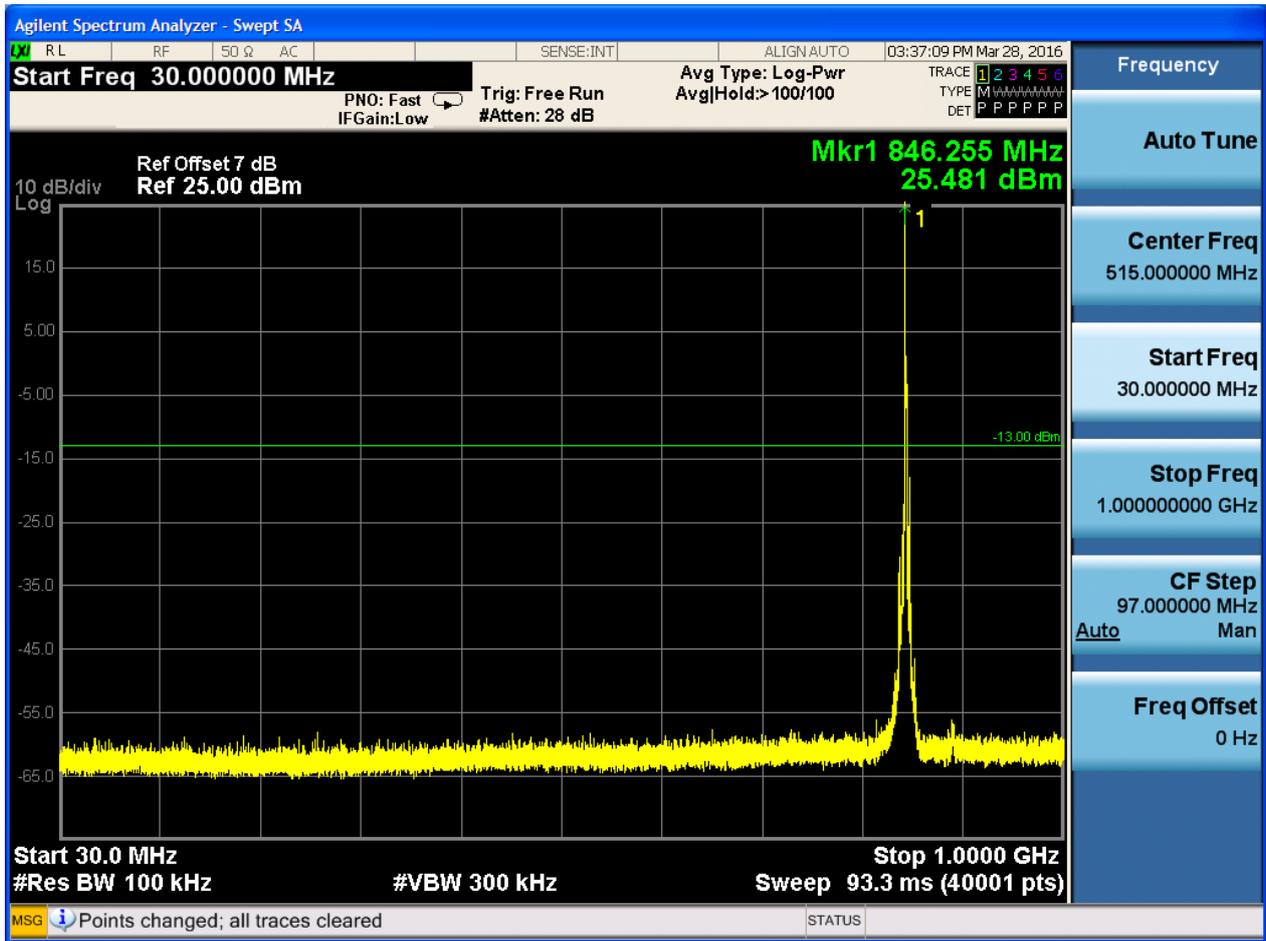




6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



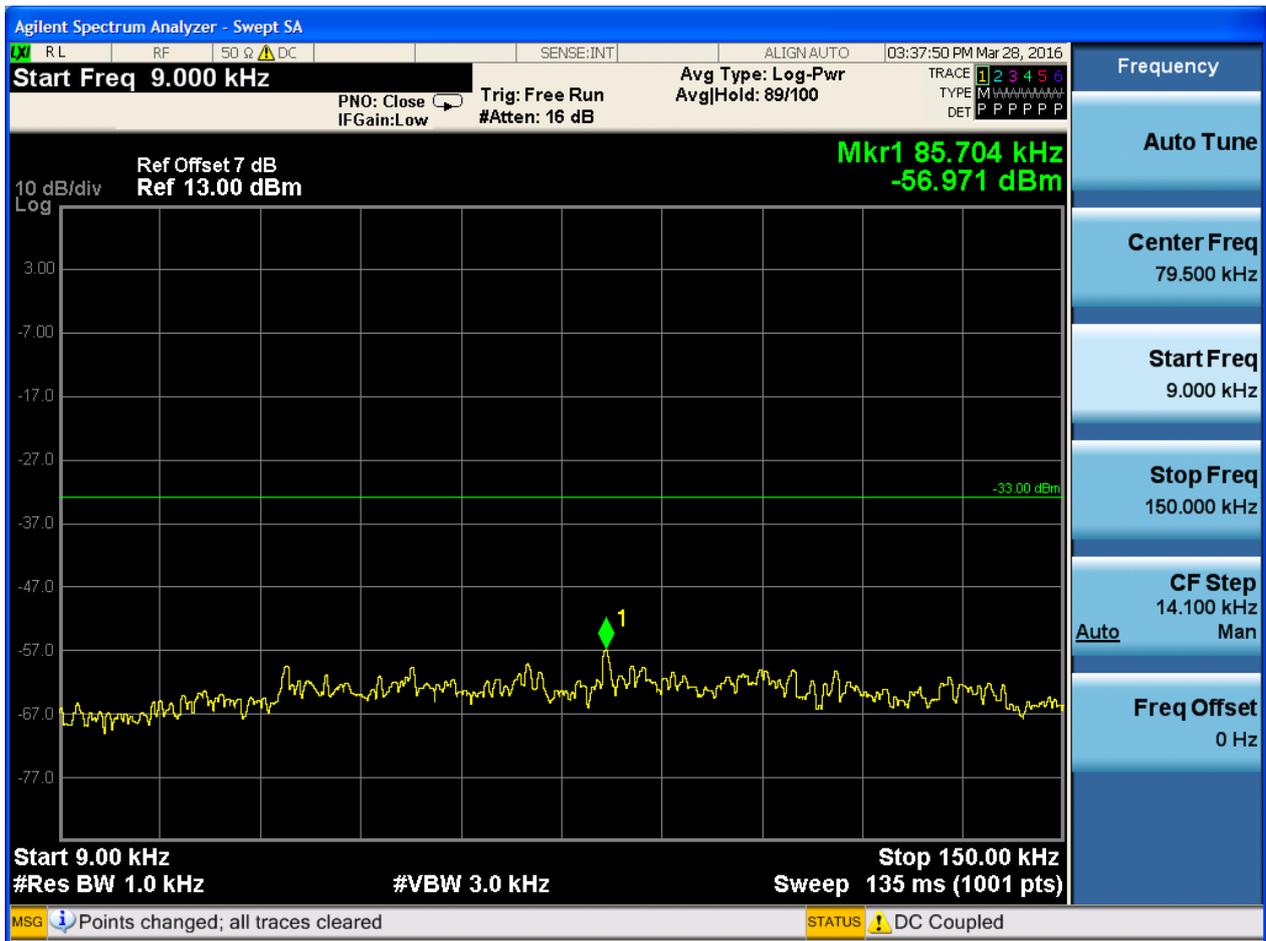


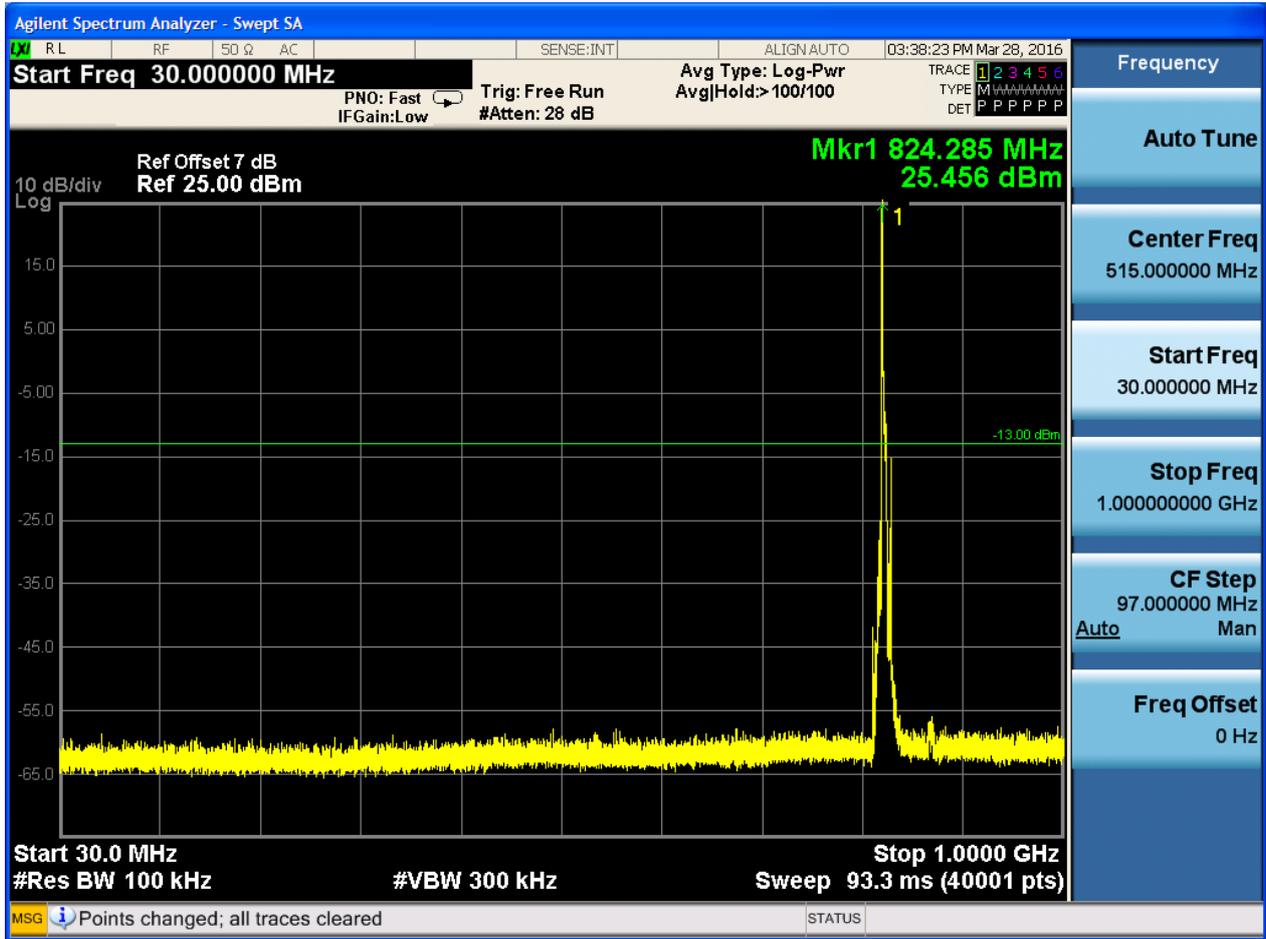


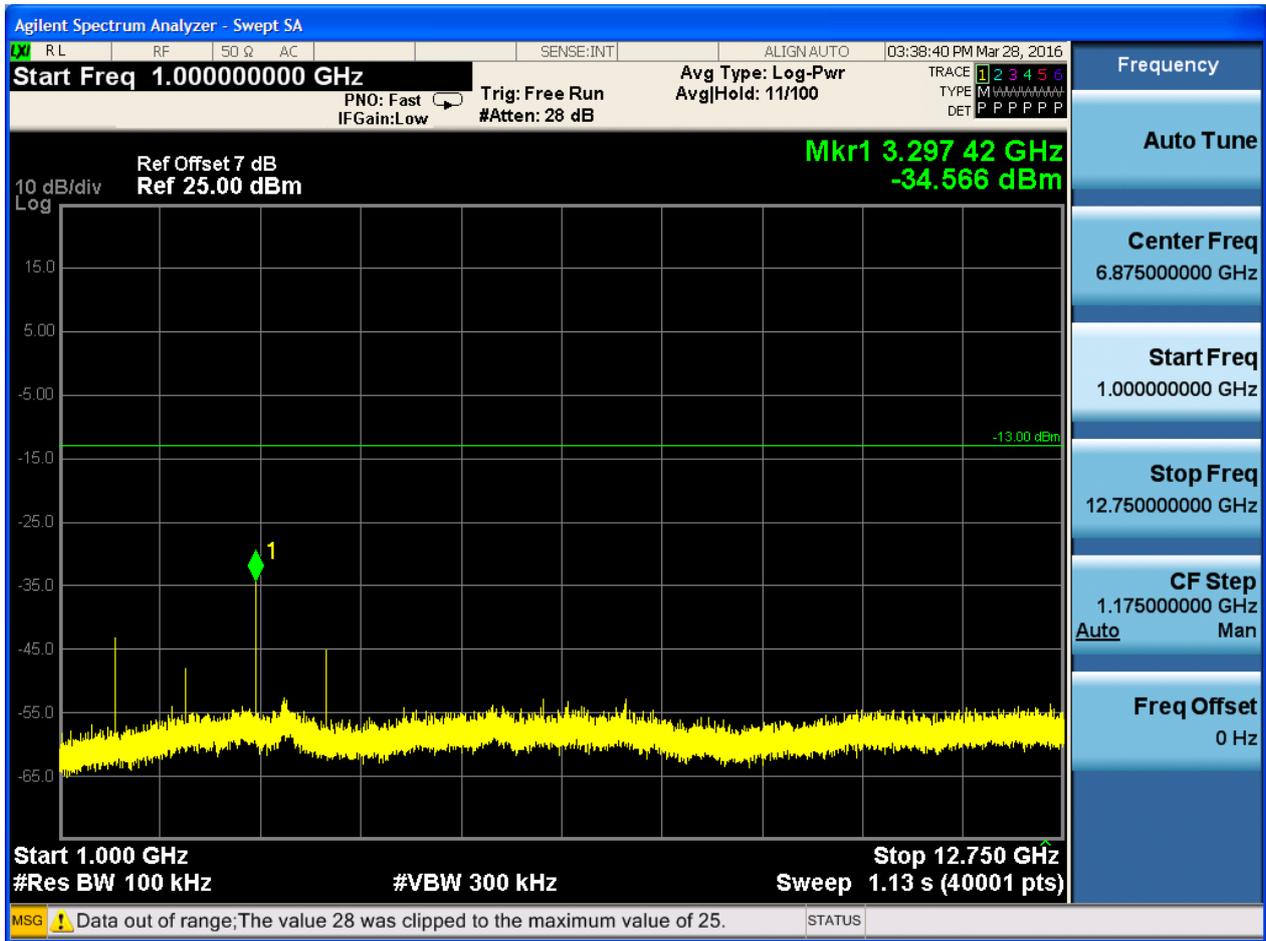
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



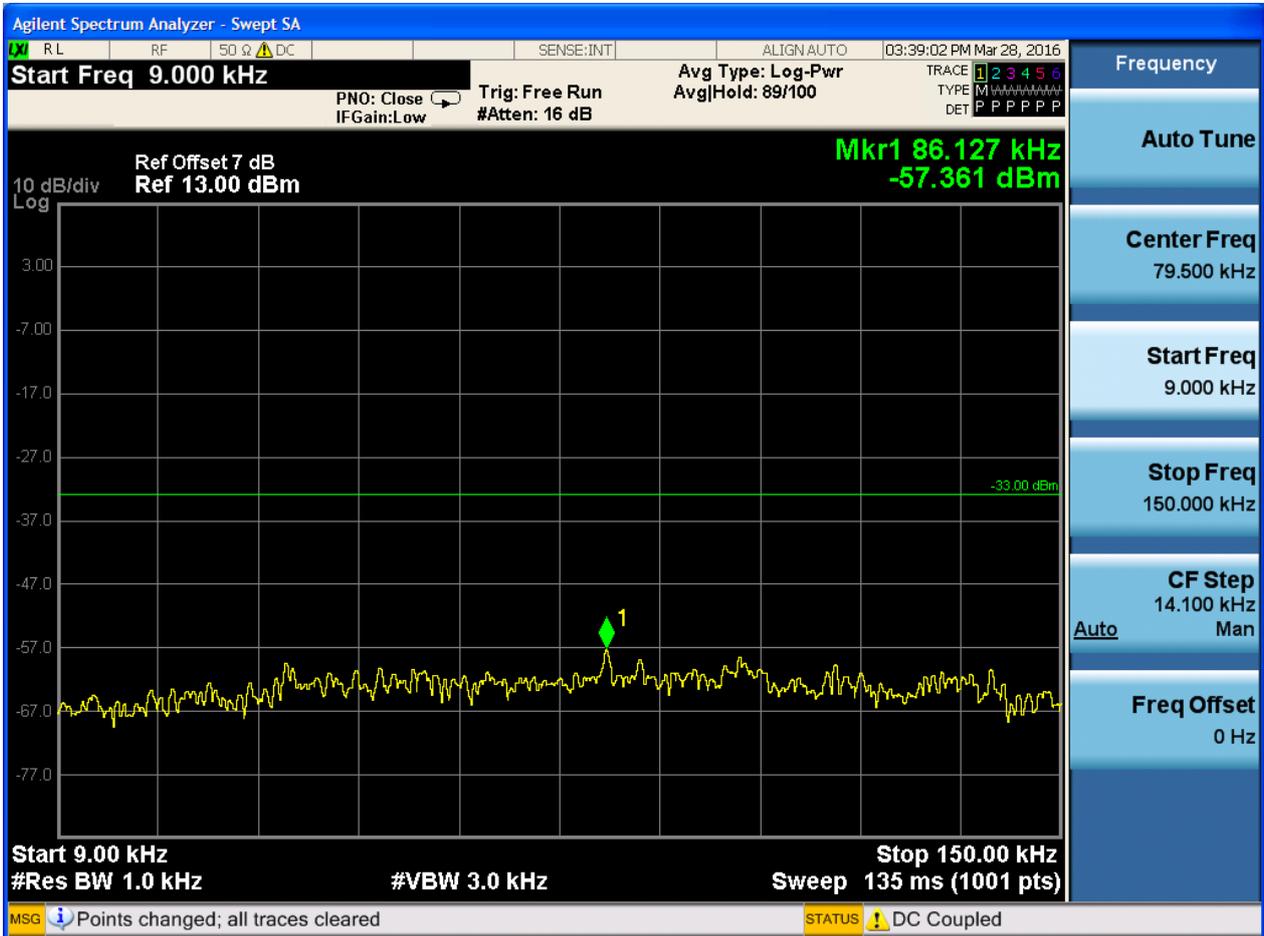


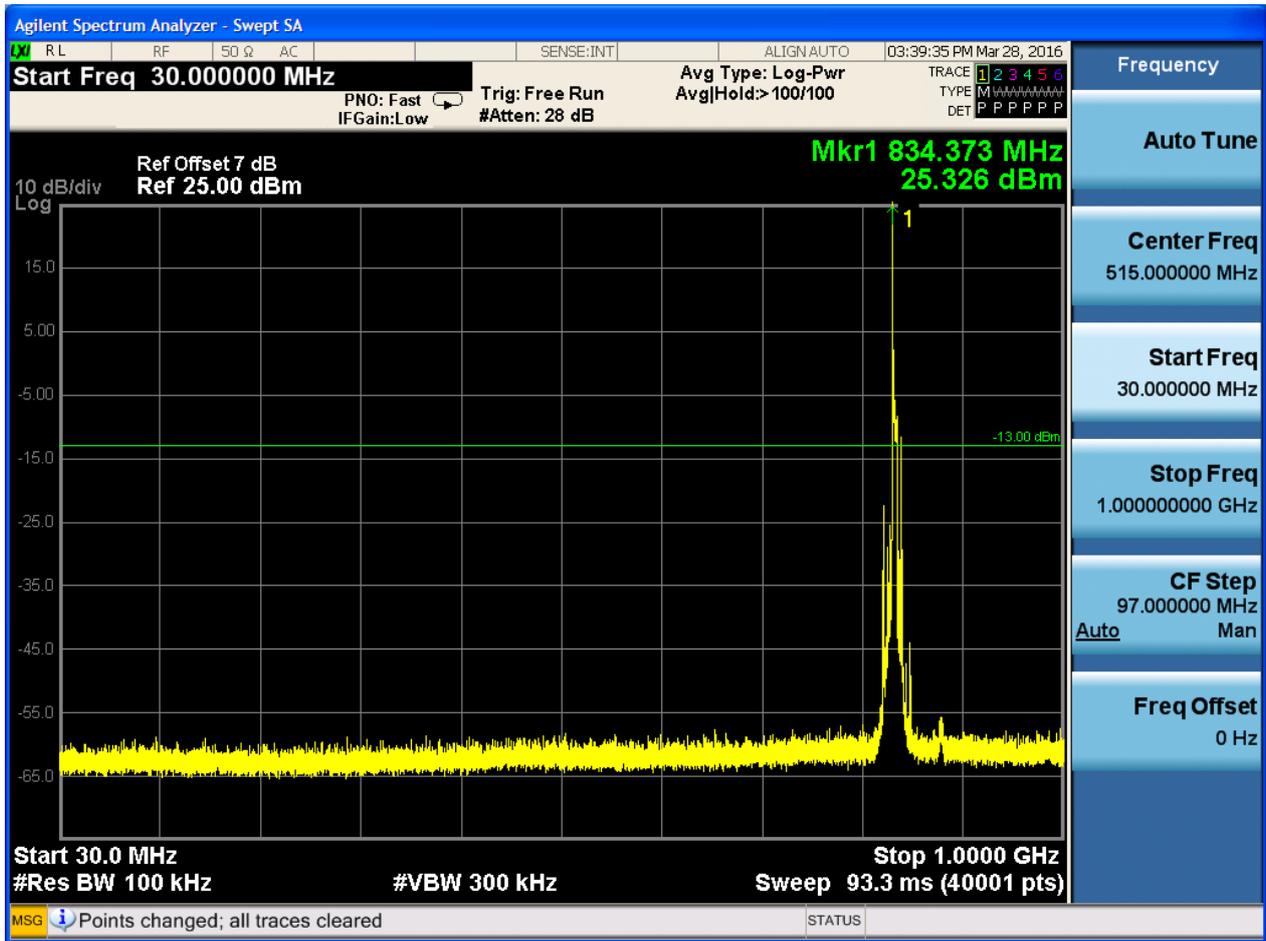


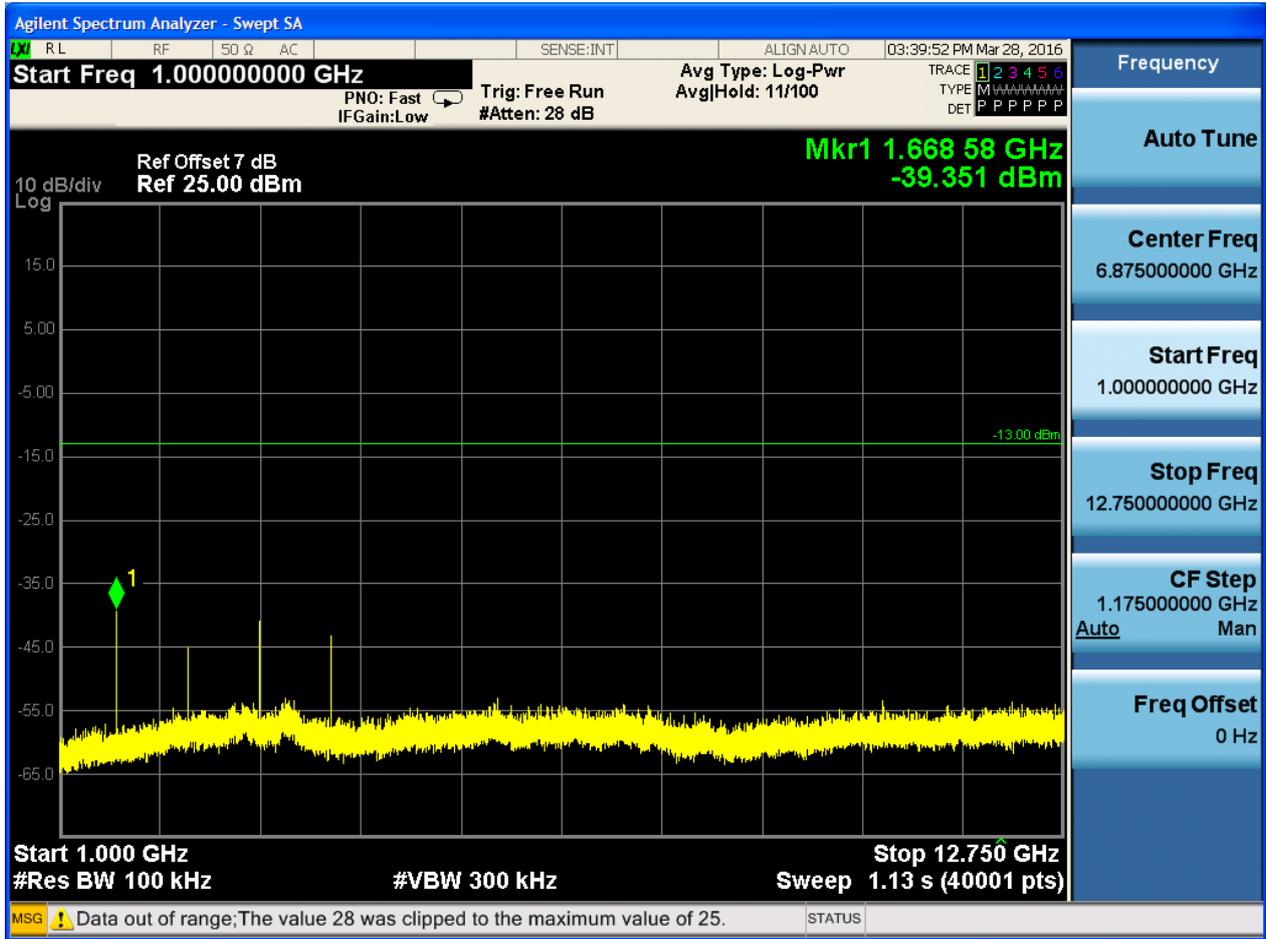


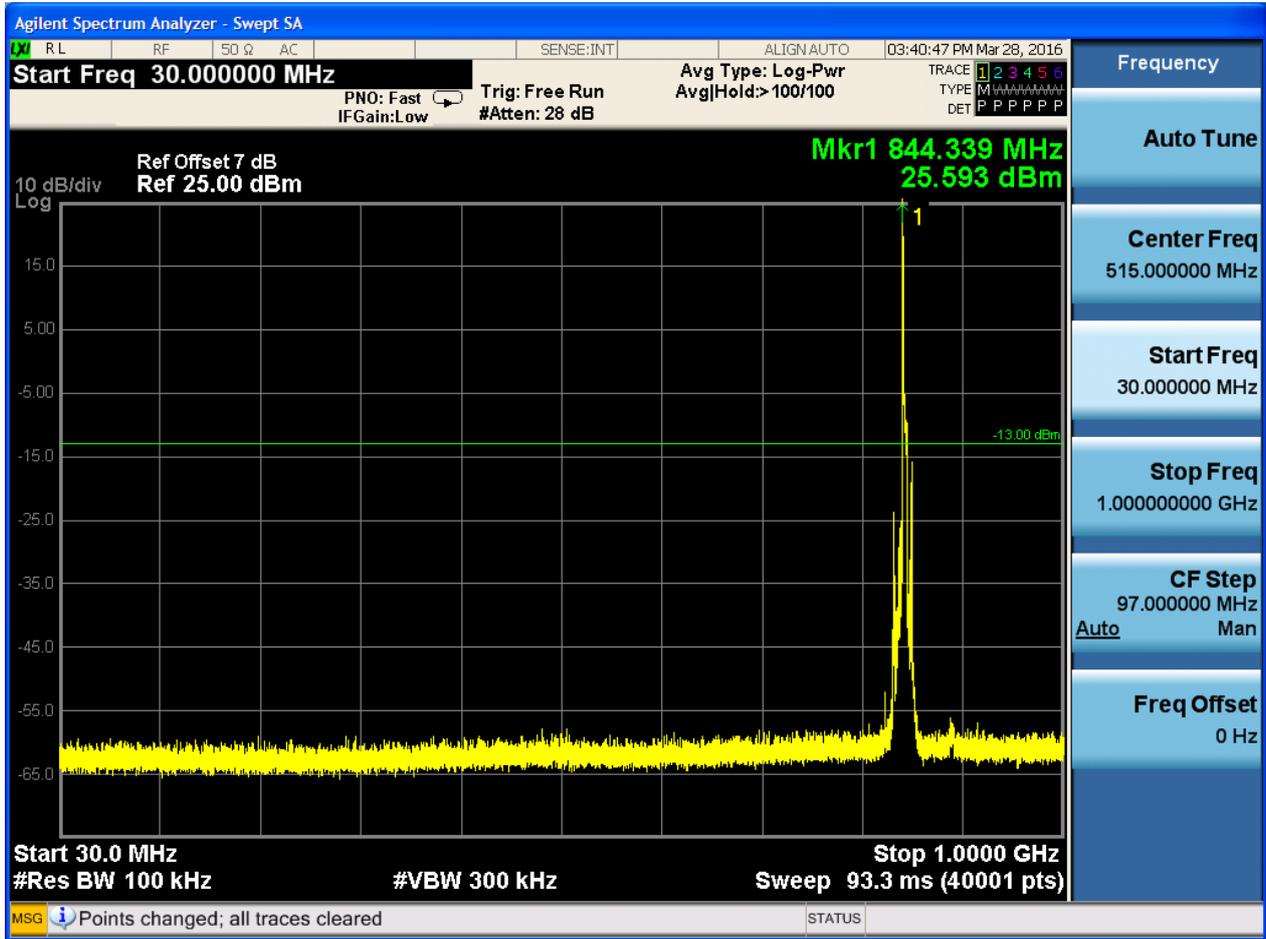
6.1.1.1.3.2 Test Channel = MCH

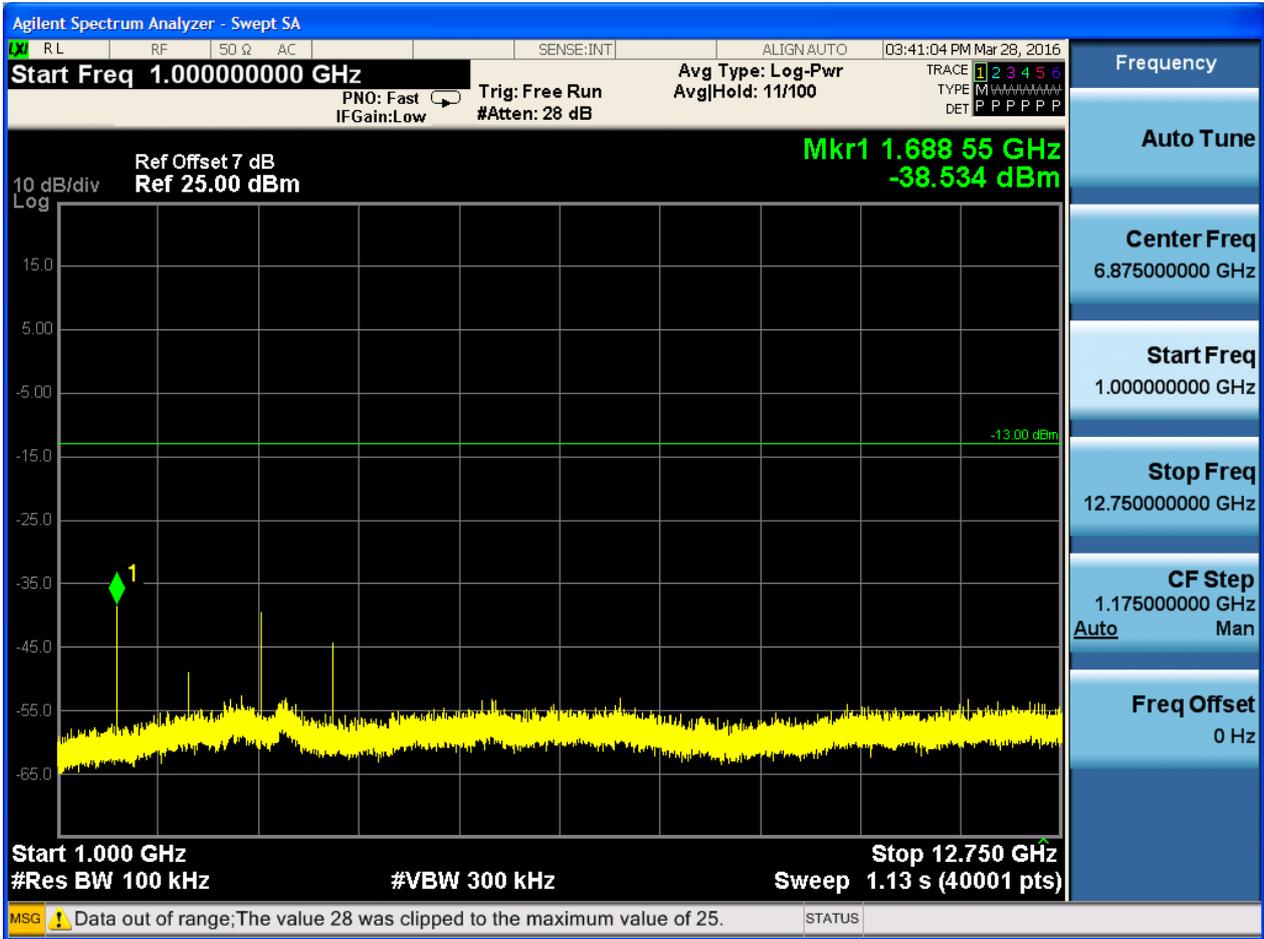
6.1.1.1.3.2.1 Test RB = RB1#0









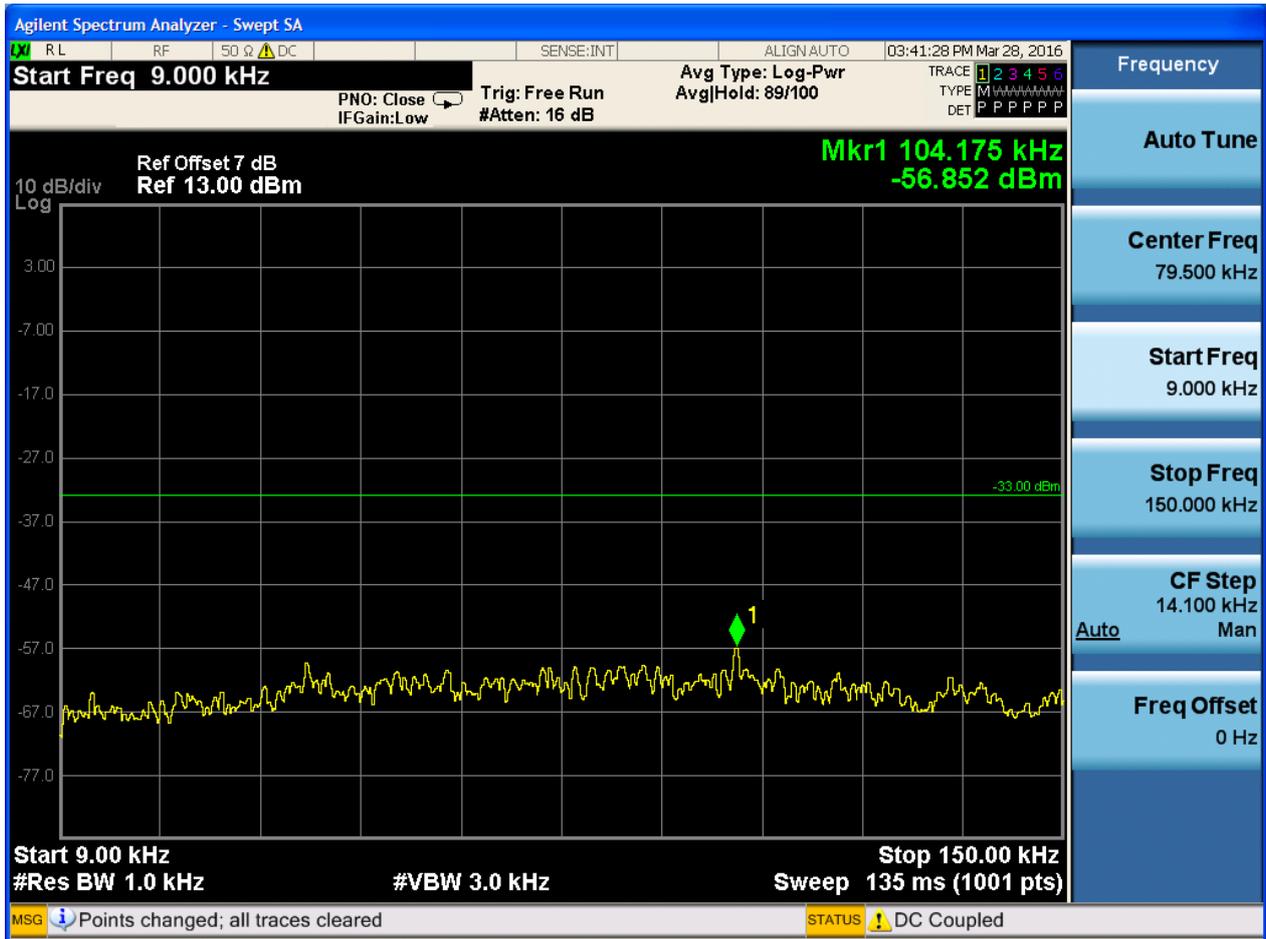


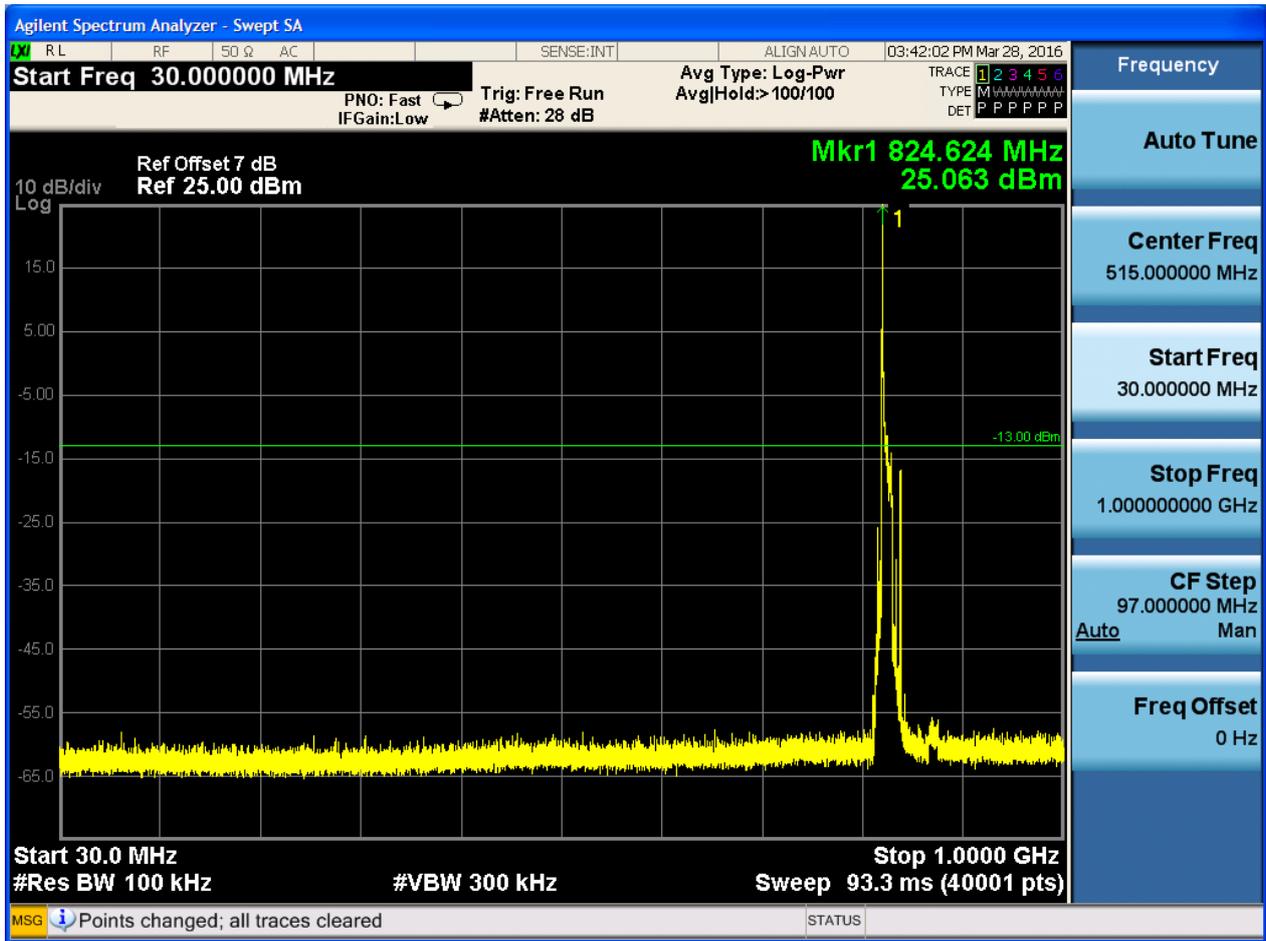


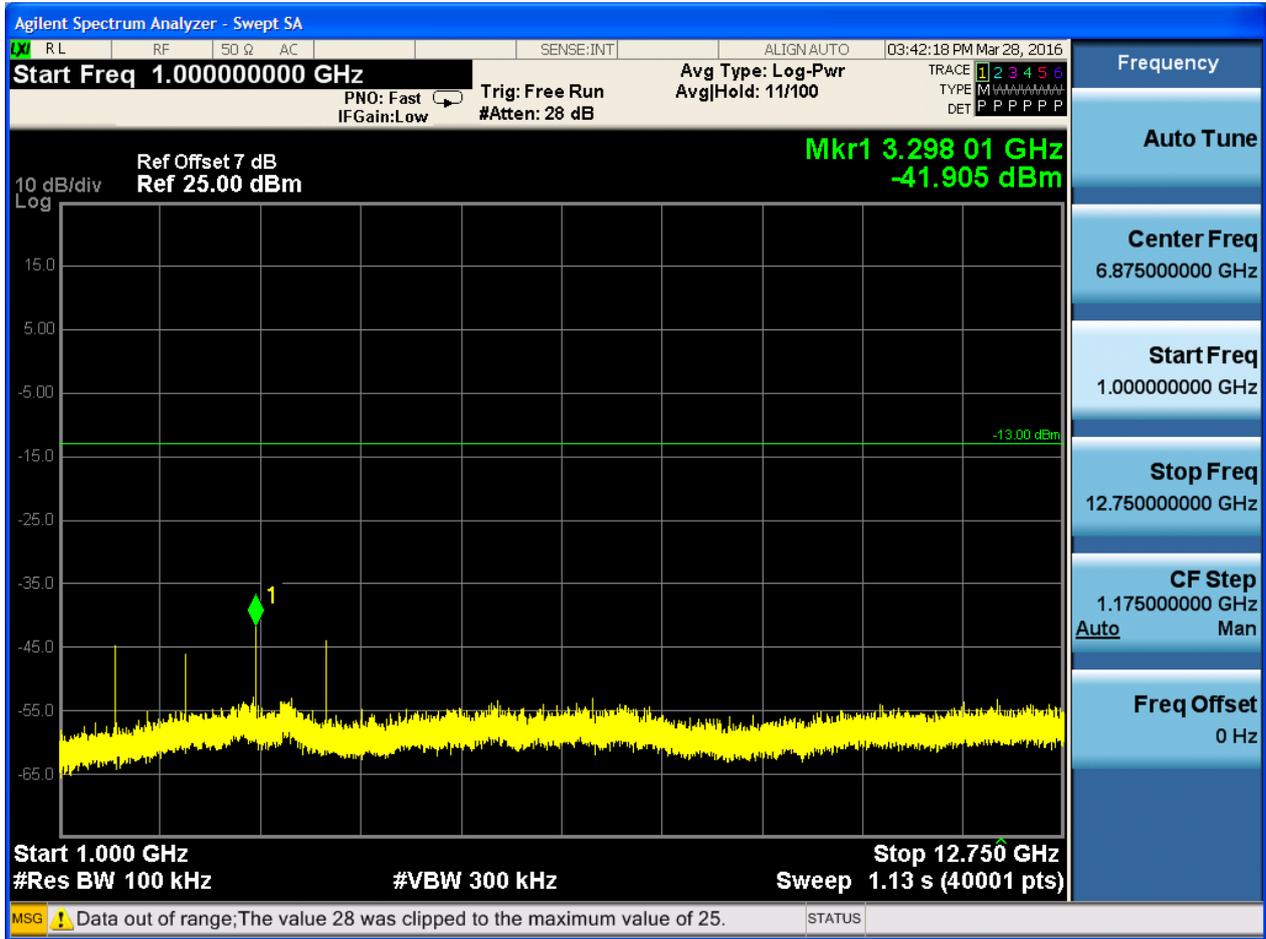
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



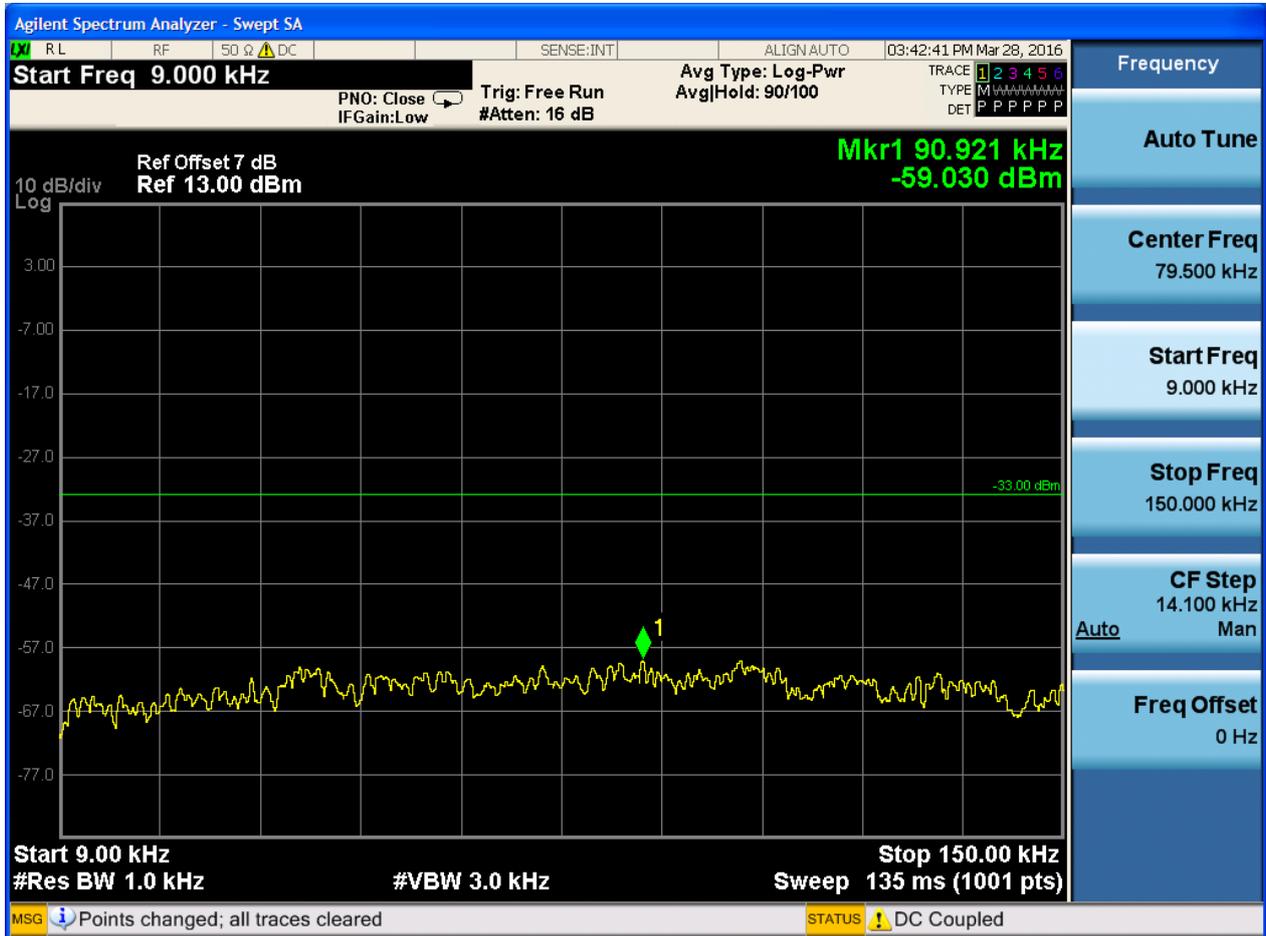


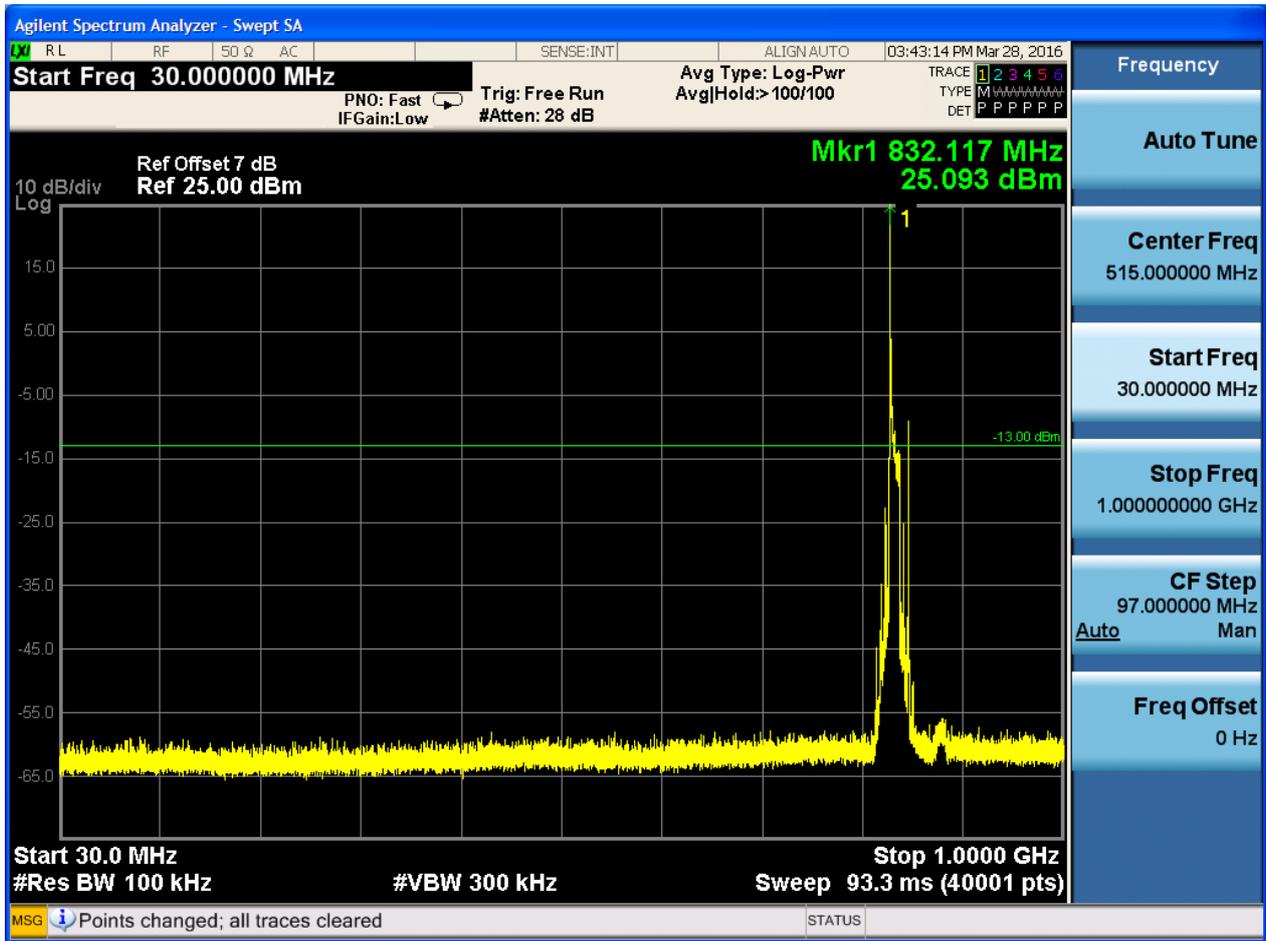


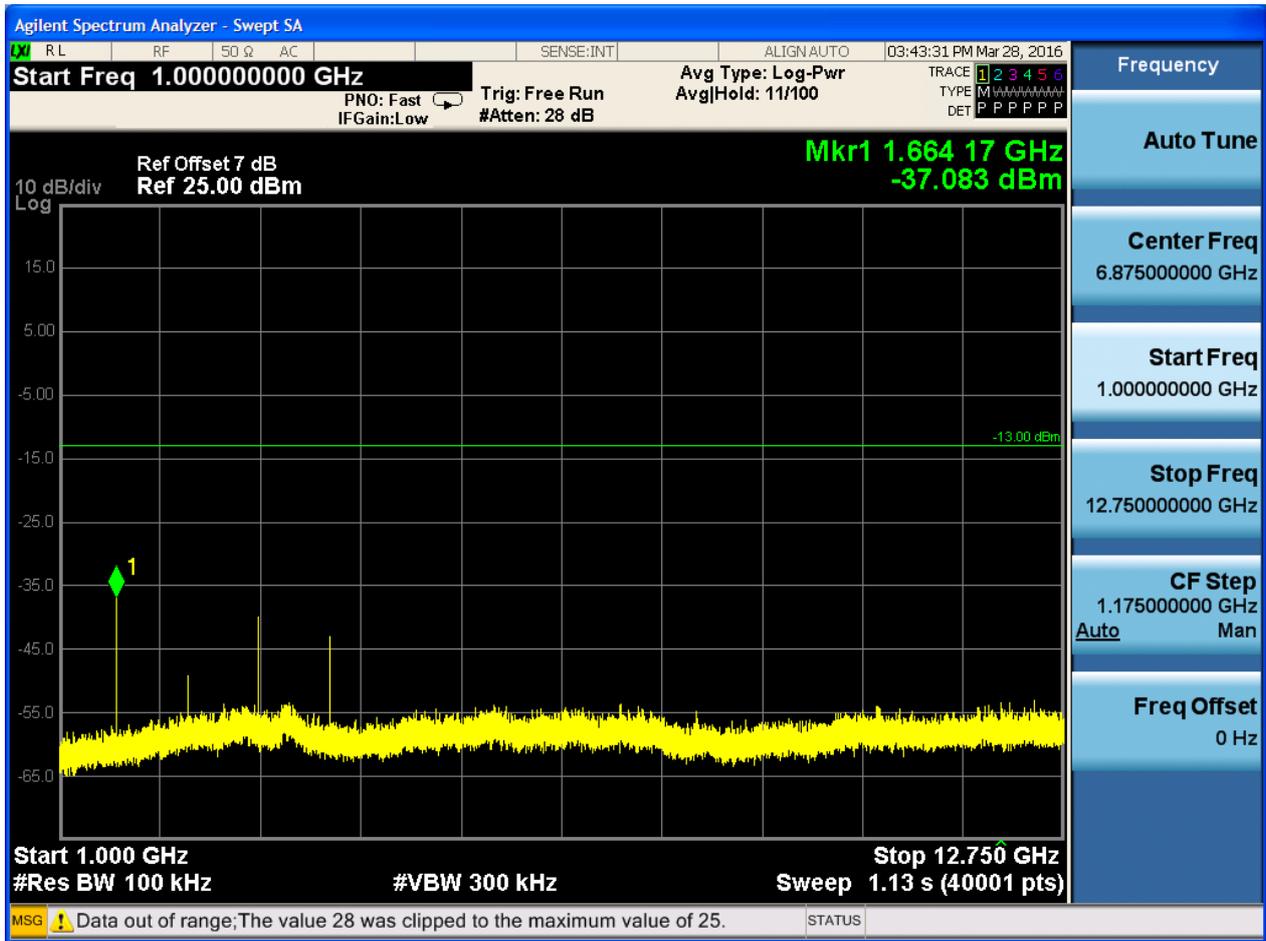


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



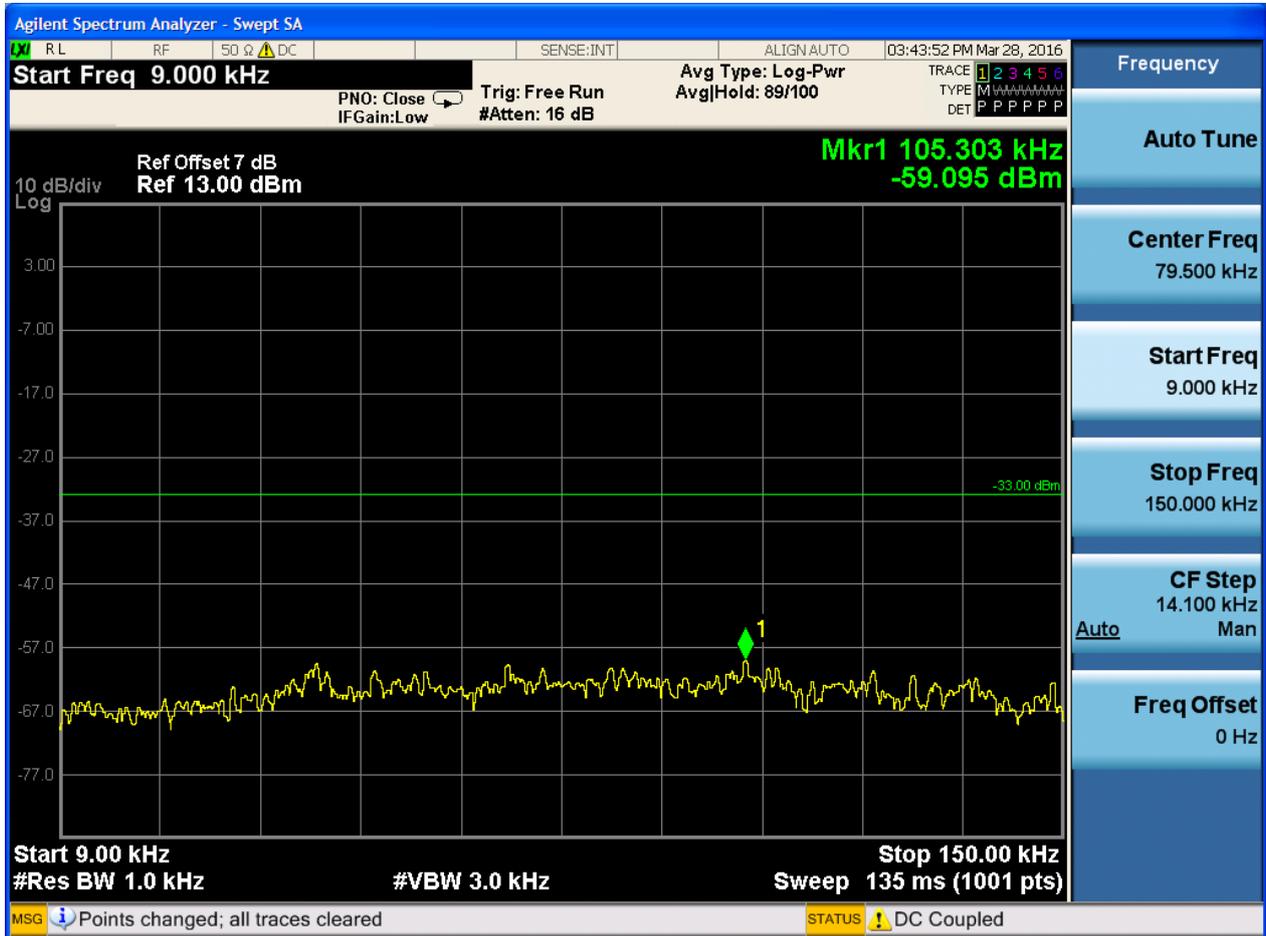


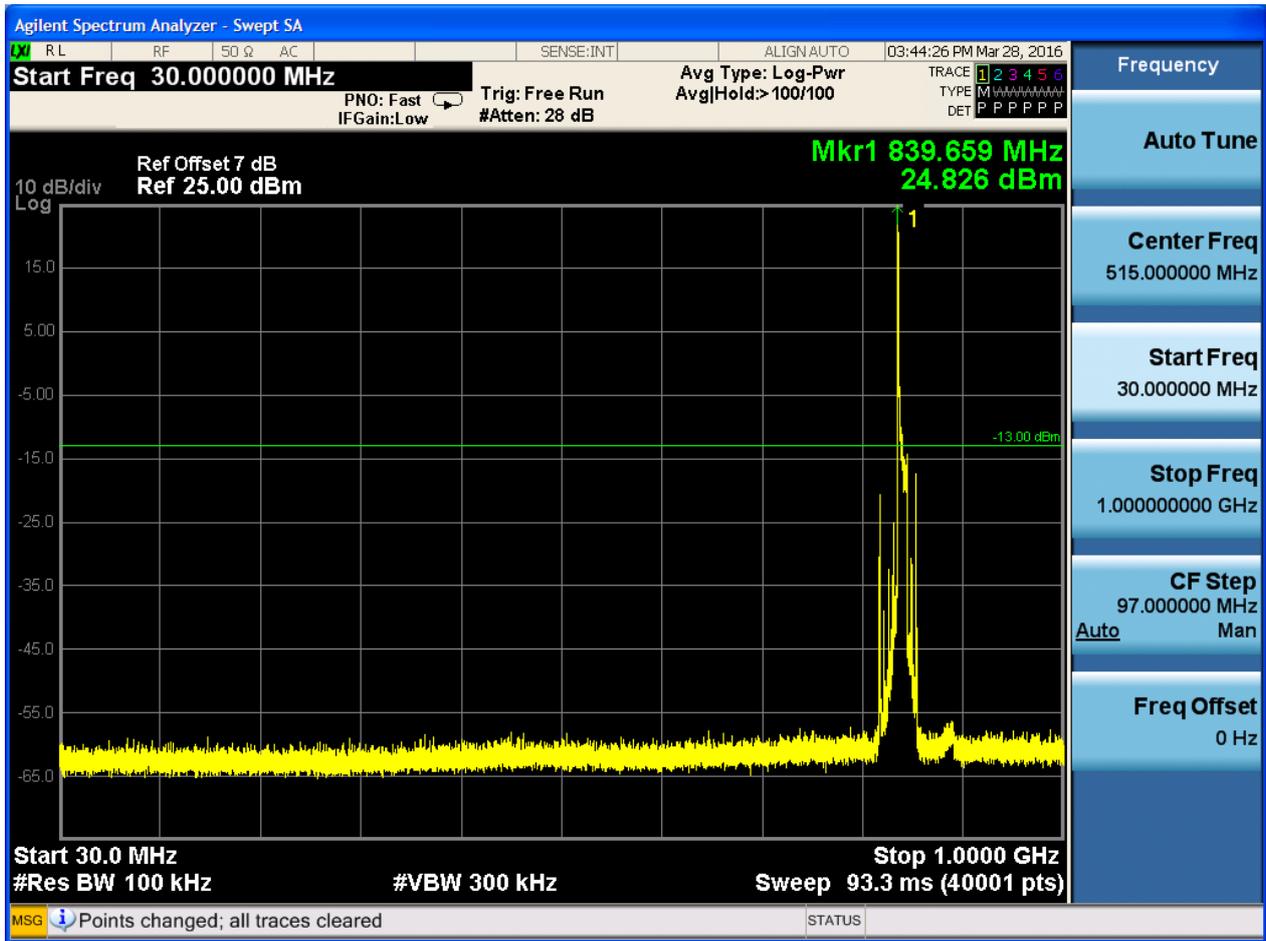


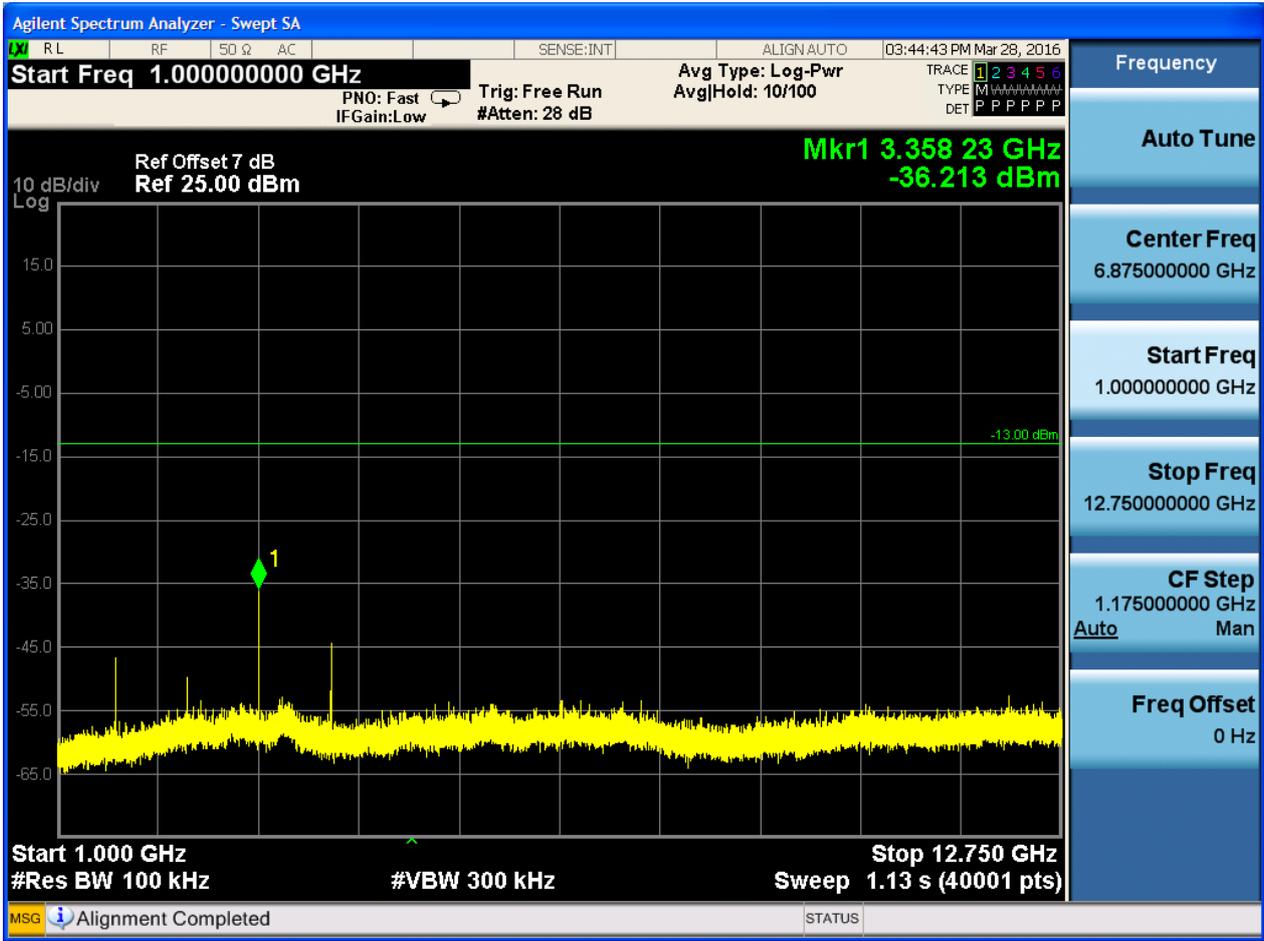


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







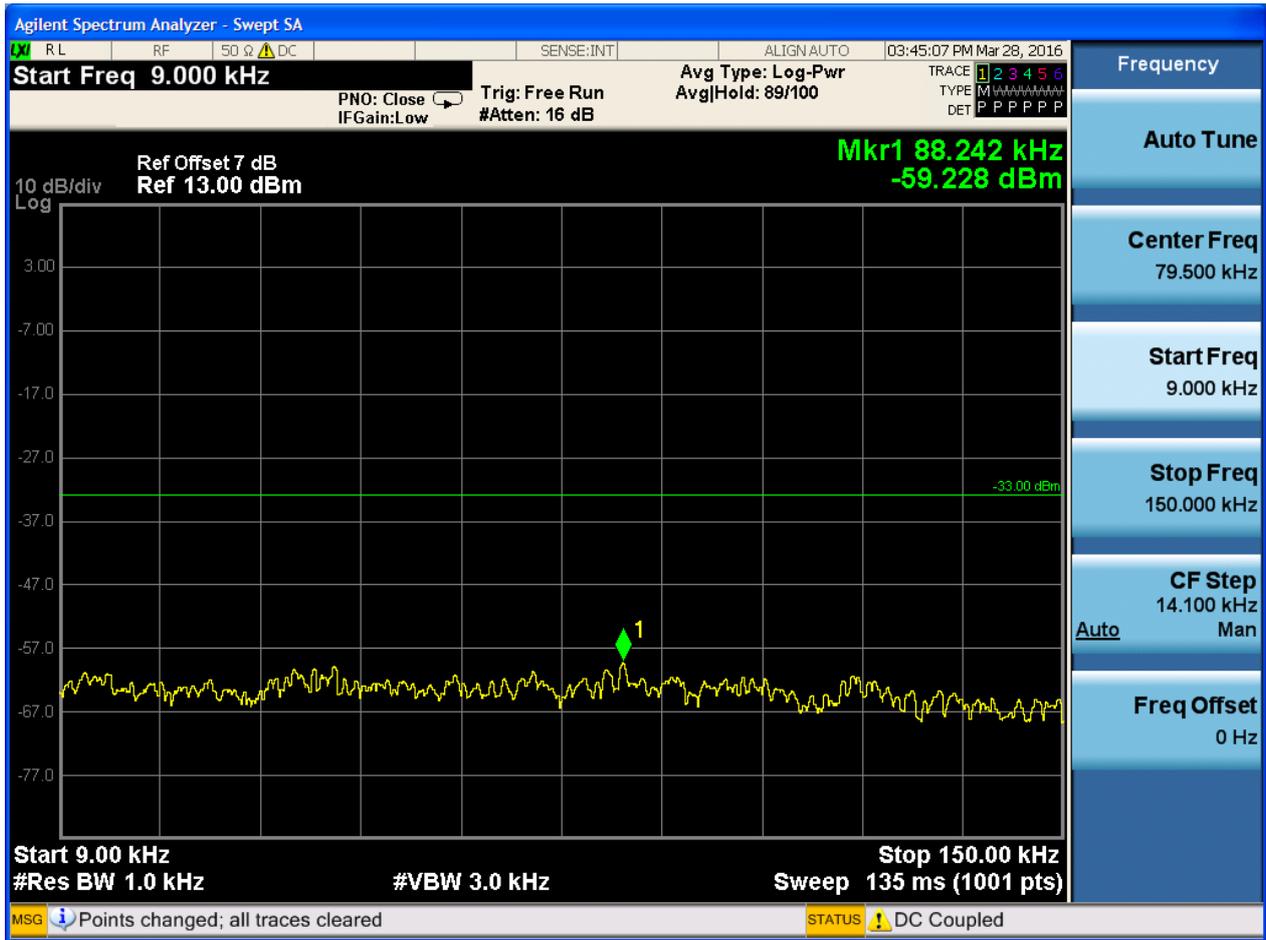


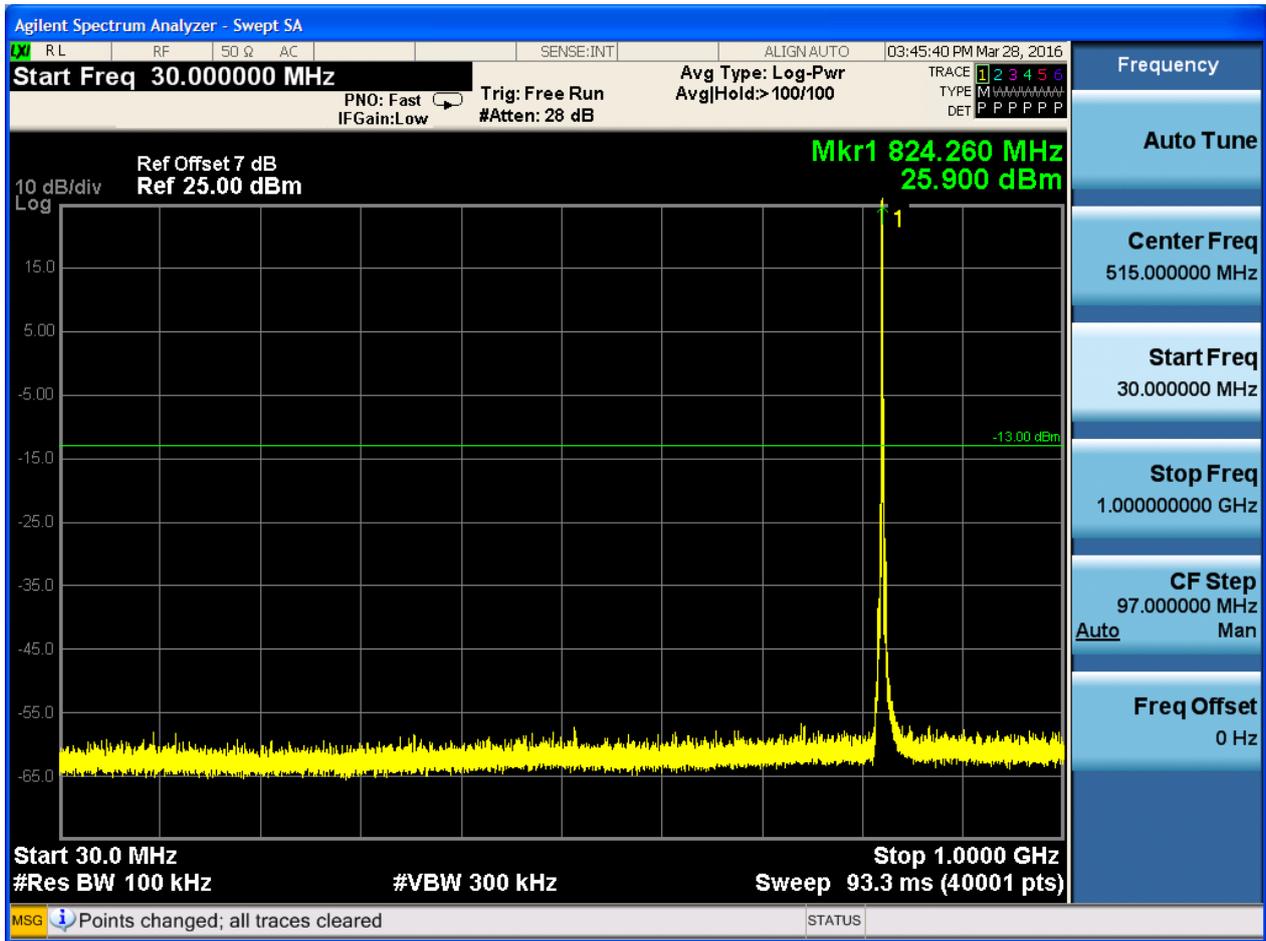
6.1.1.2 Test Mode = LTE/TM2

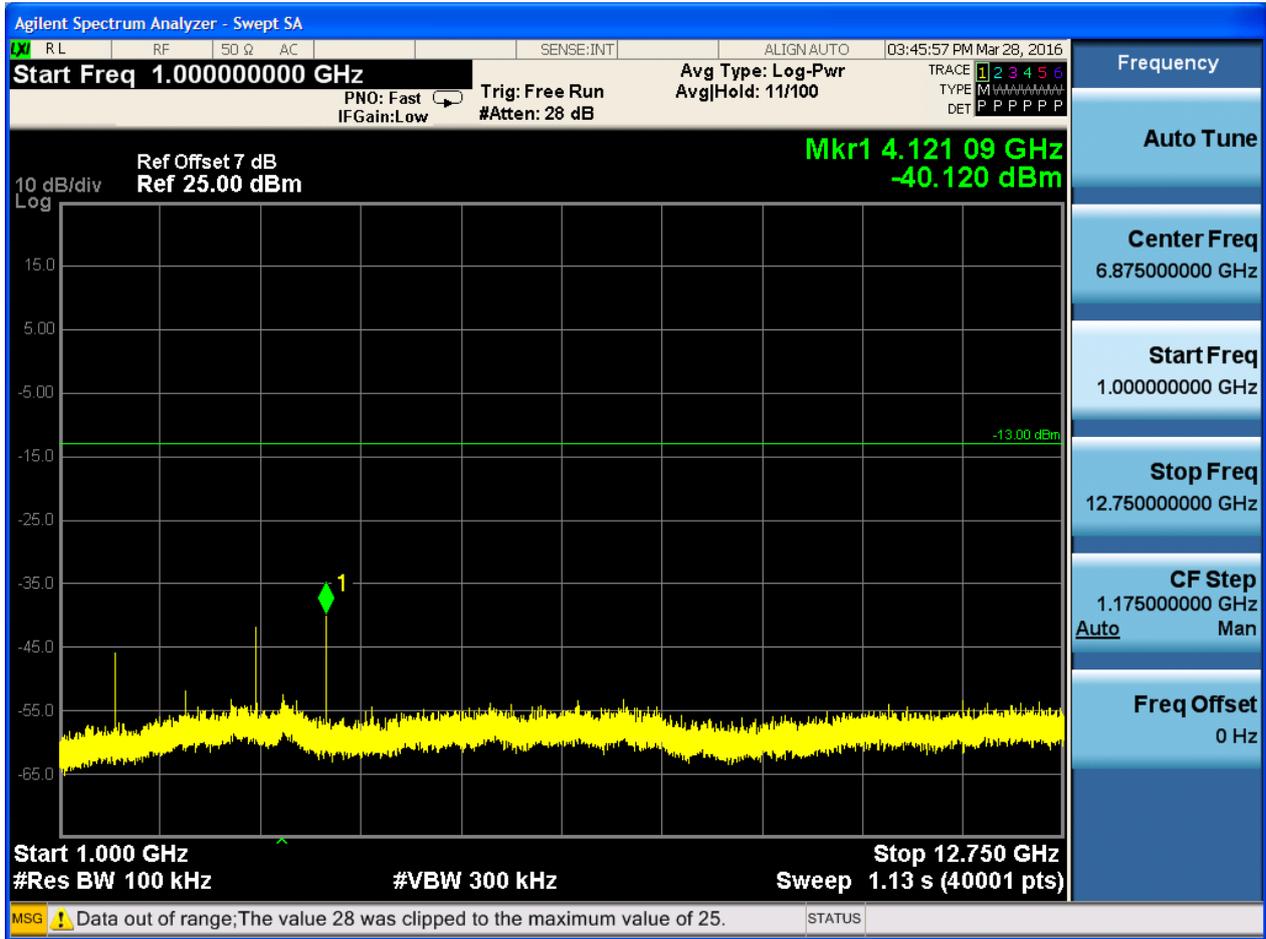
6.1.1.2.1 Test Bandwidth = 1.4

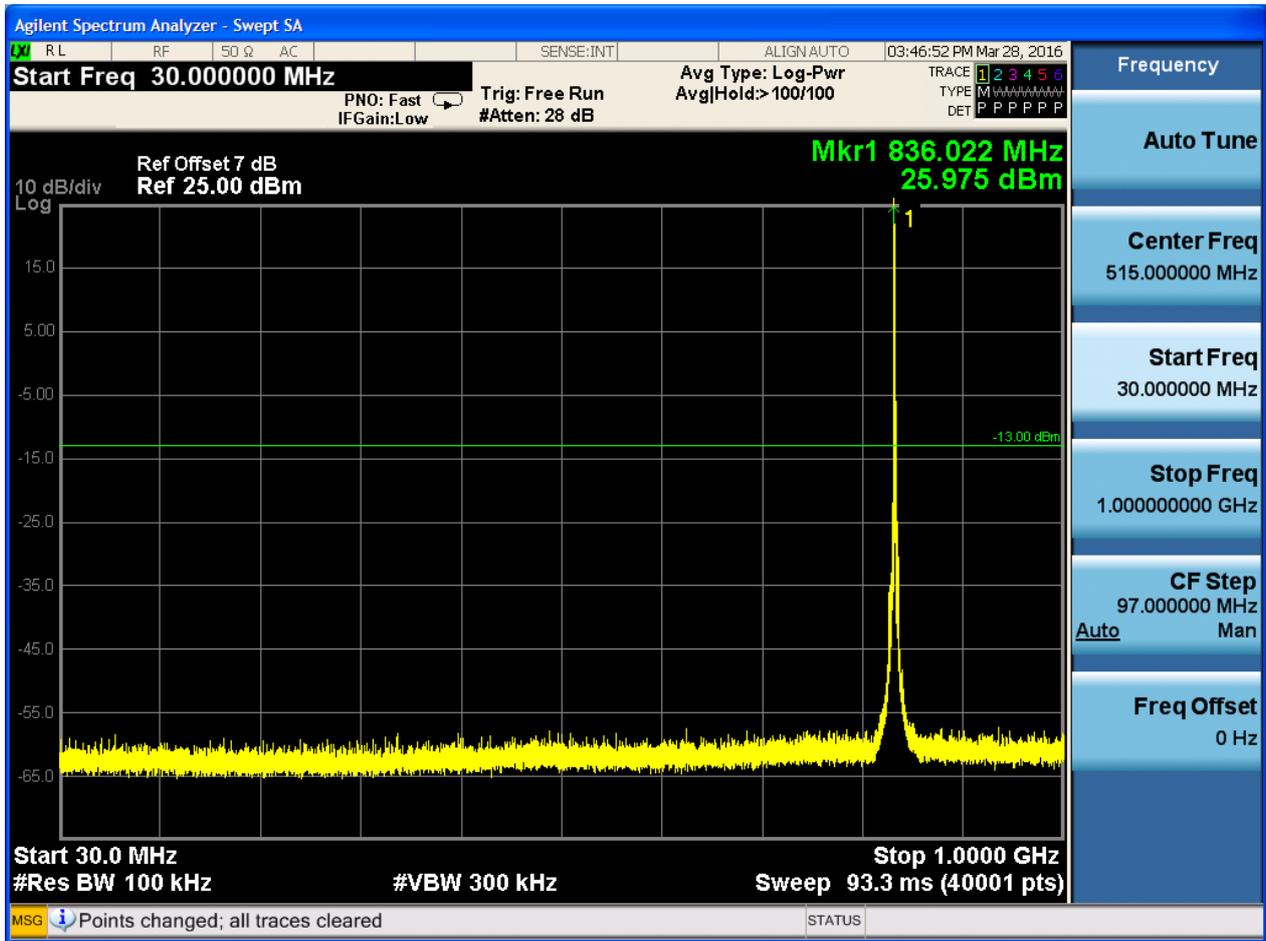
6.1.1.2.1.1 Test Channel = LCH

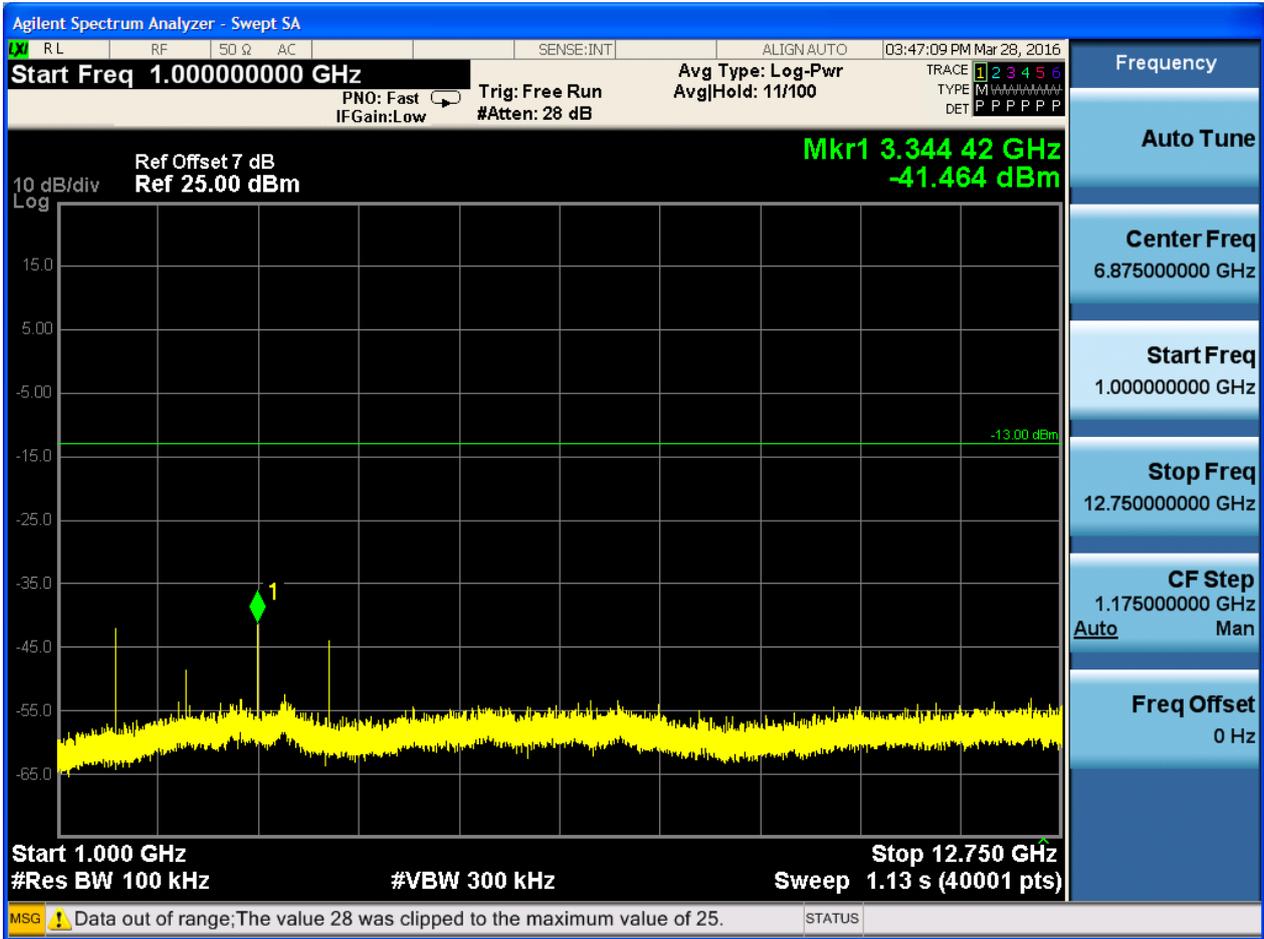
6.1.1.2.1.1.1 Test RB = RB1#0







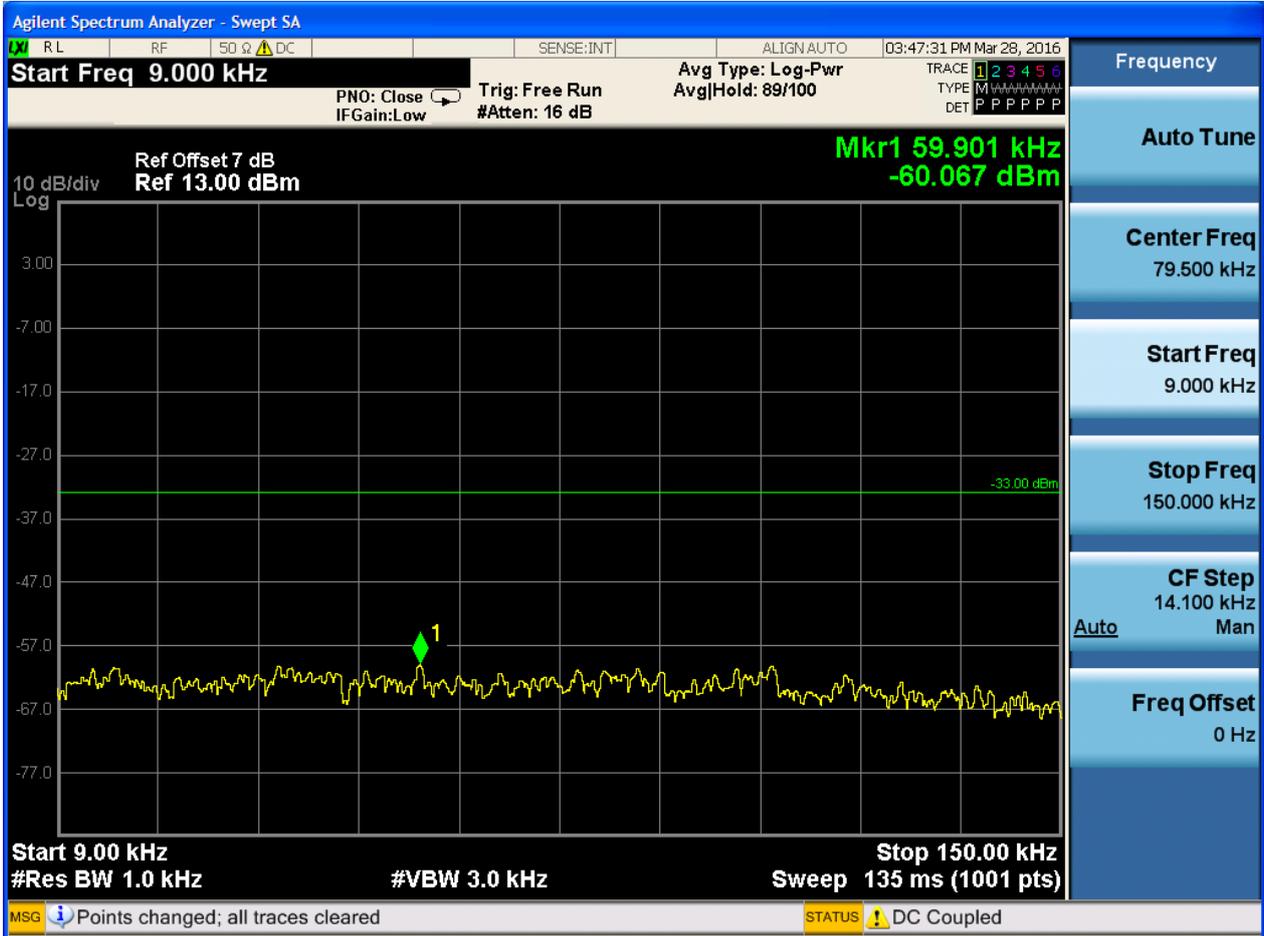


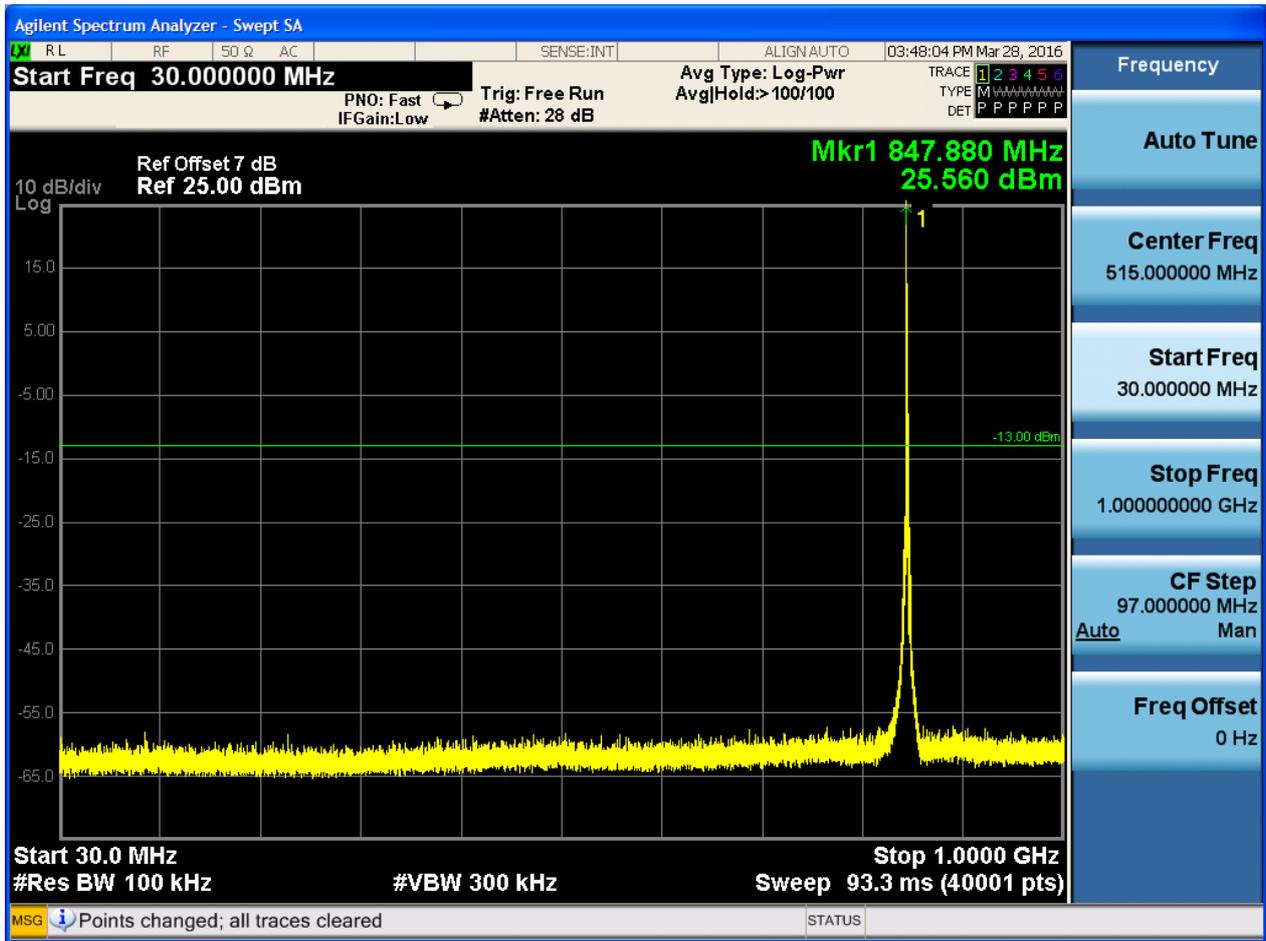


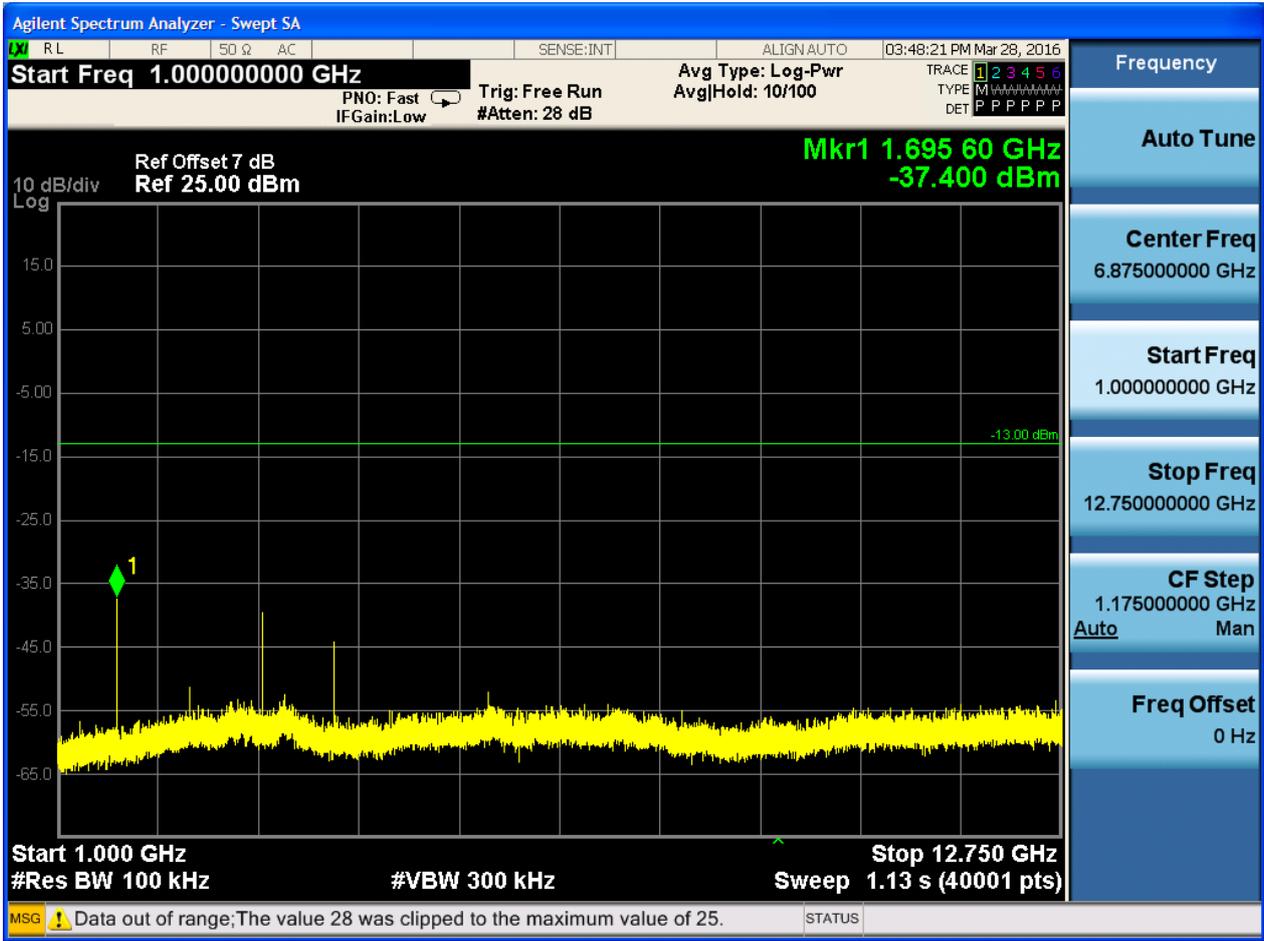


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







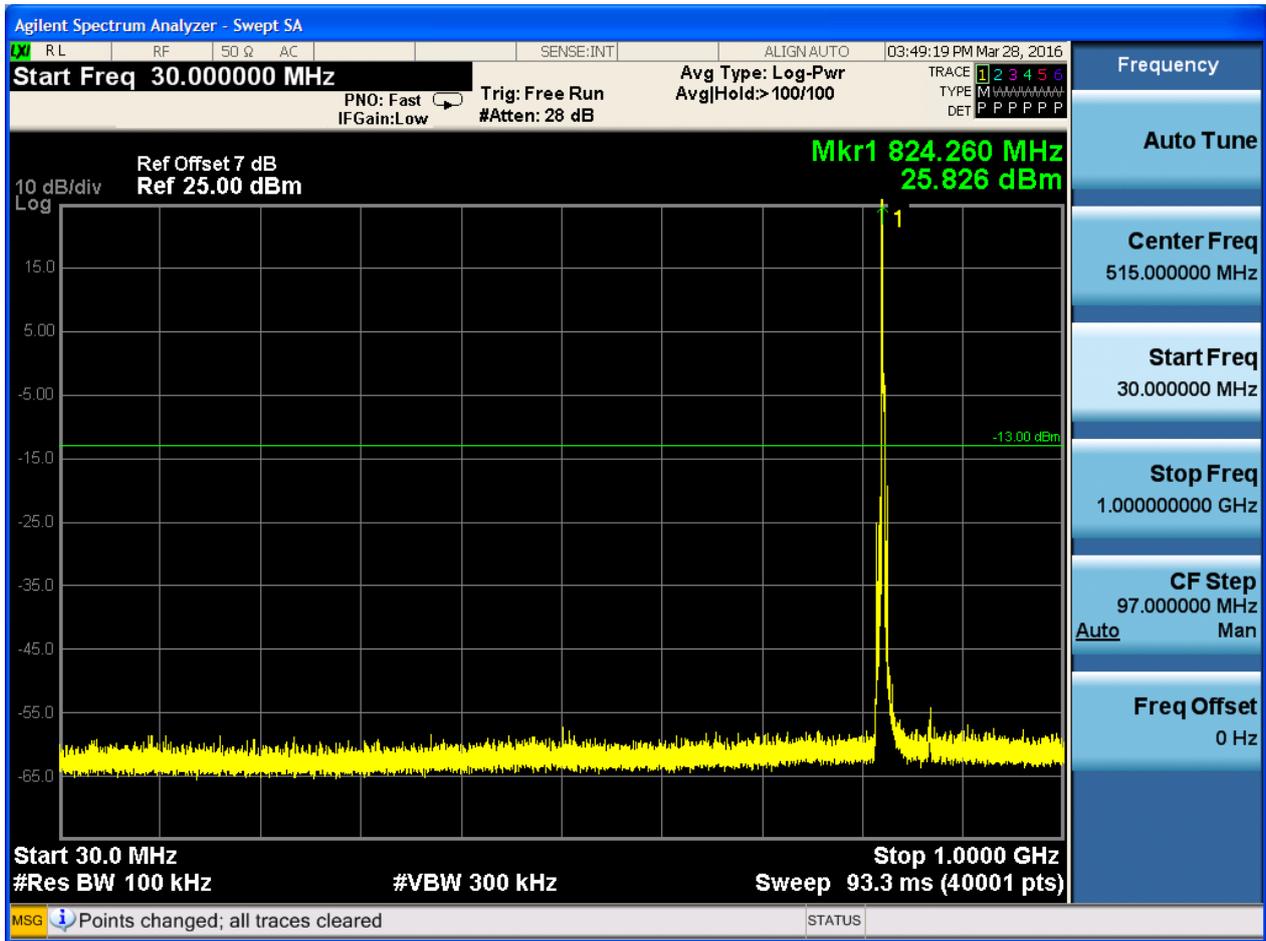


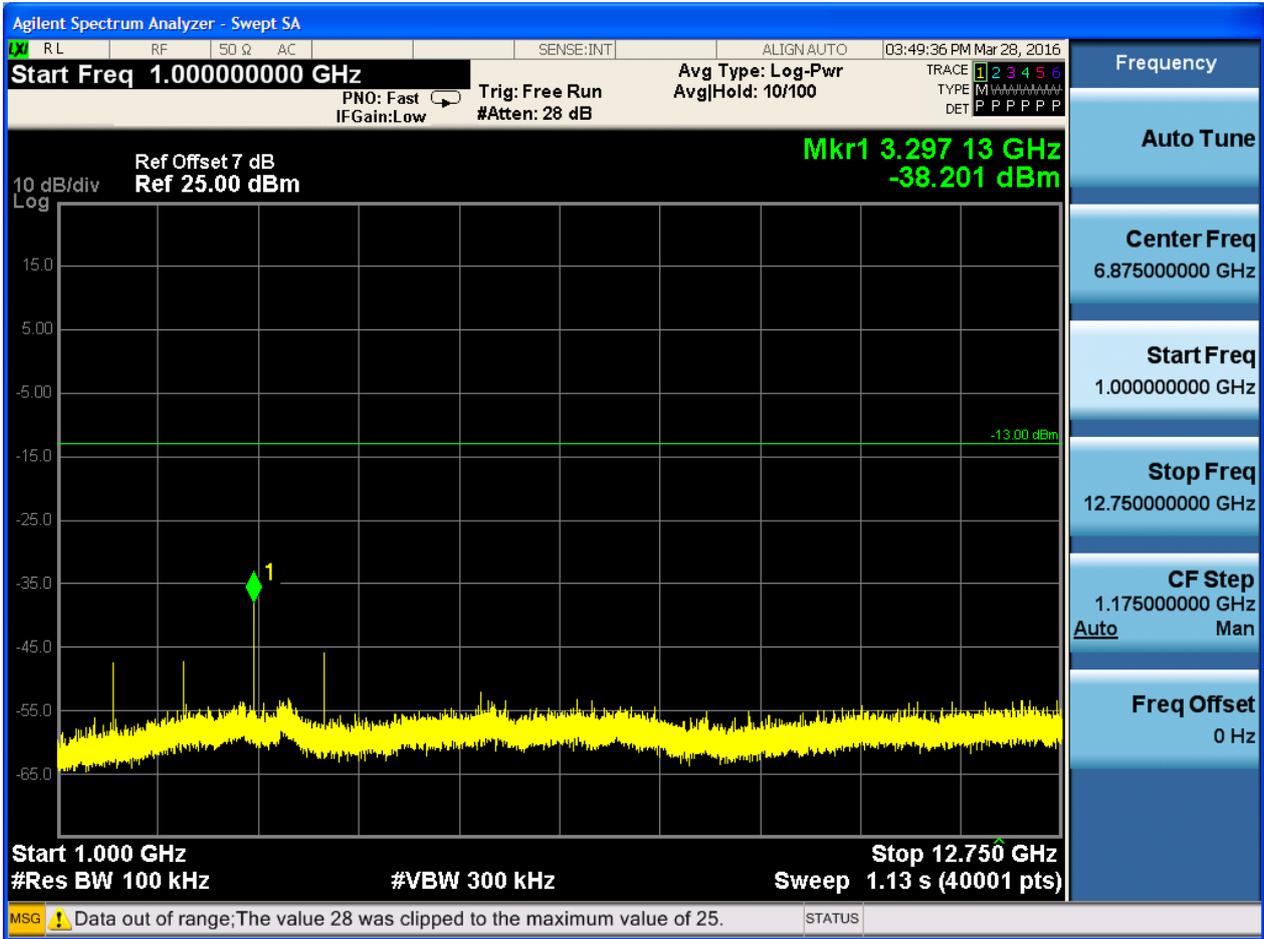
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

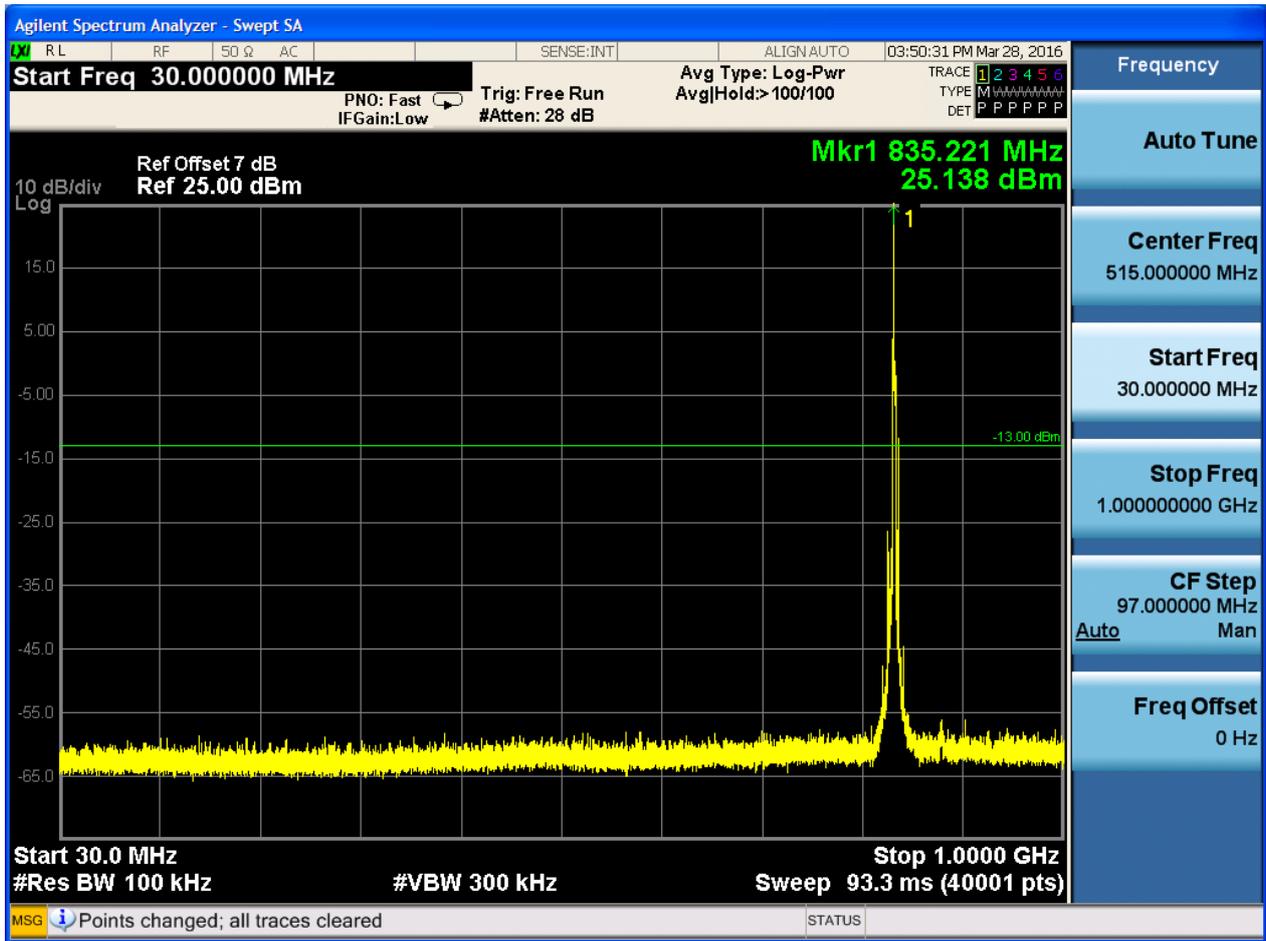
6.1.1.2.2.1.1 Test RB = RB1#0

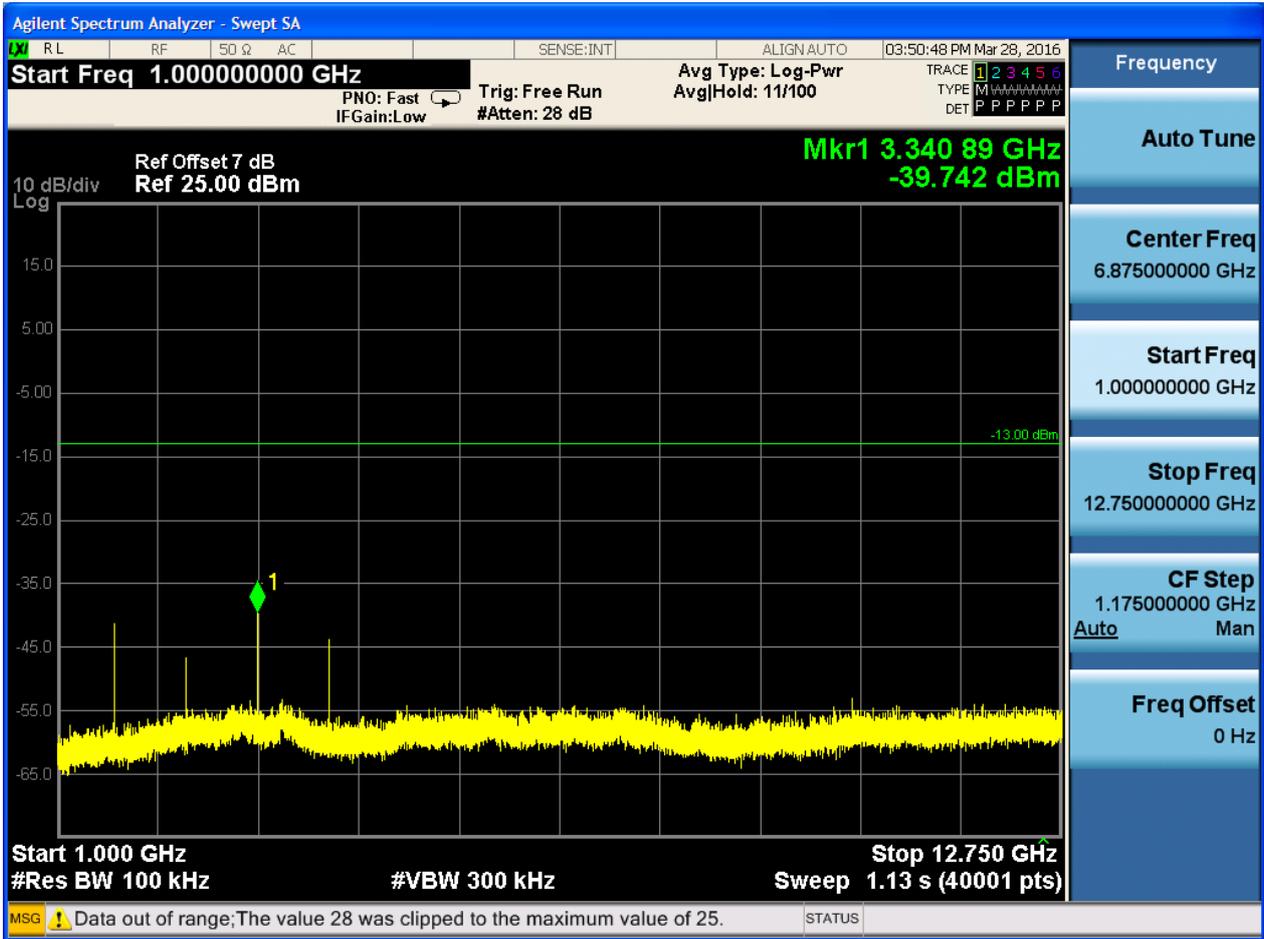








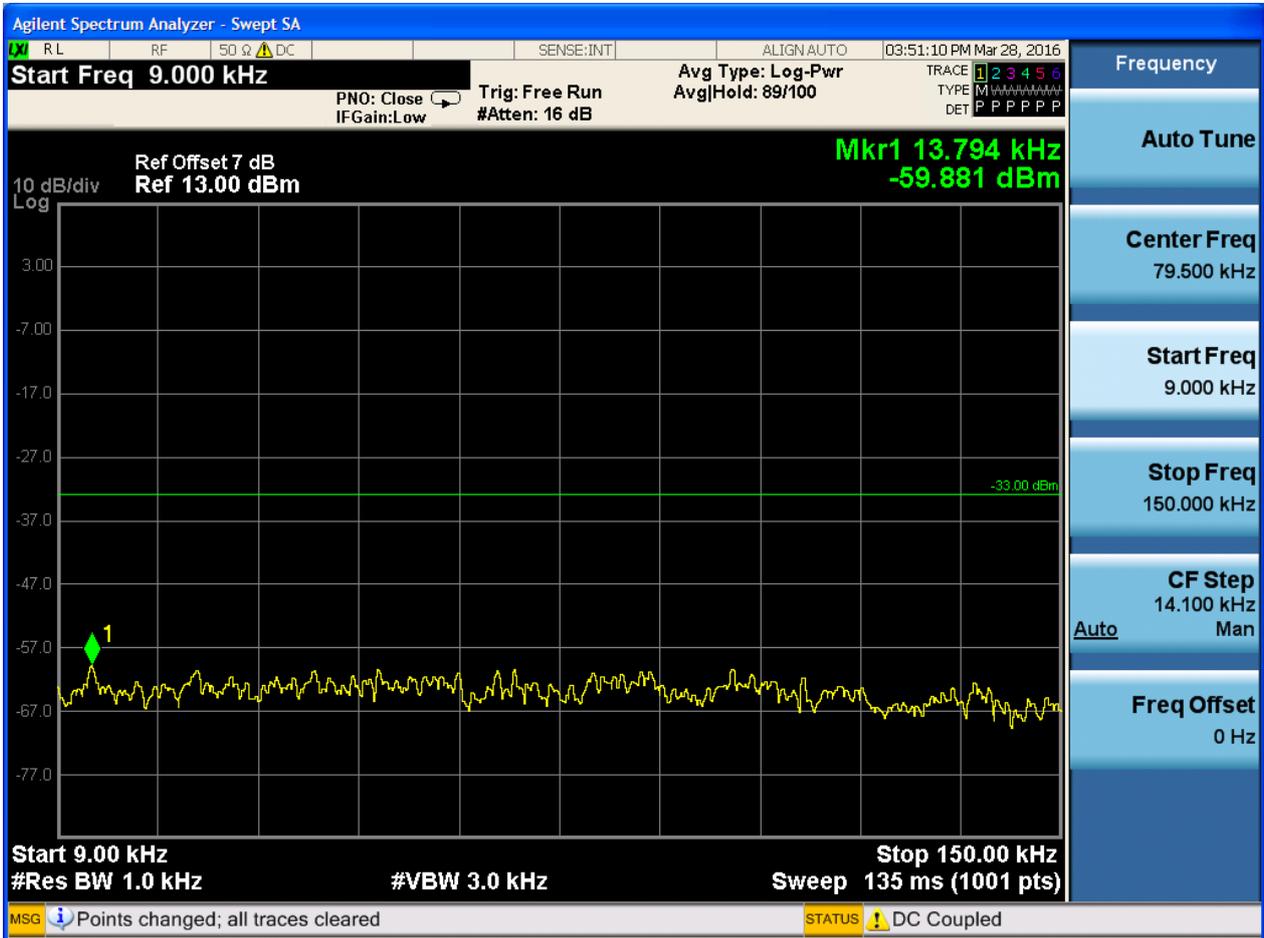


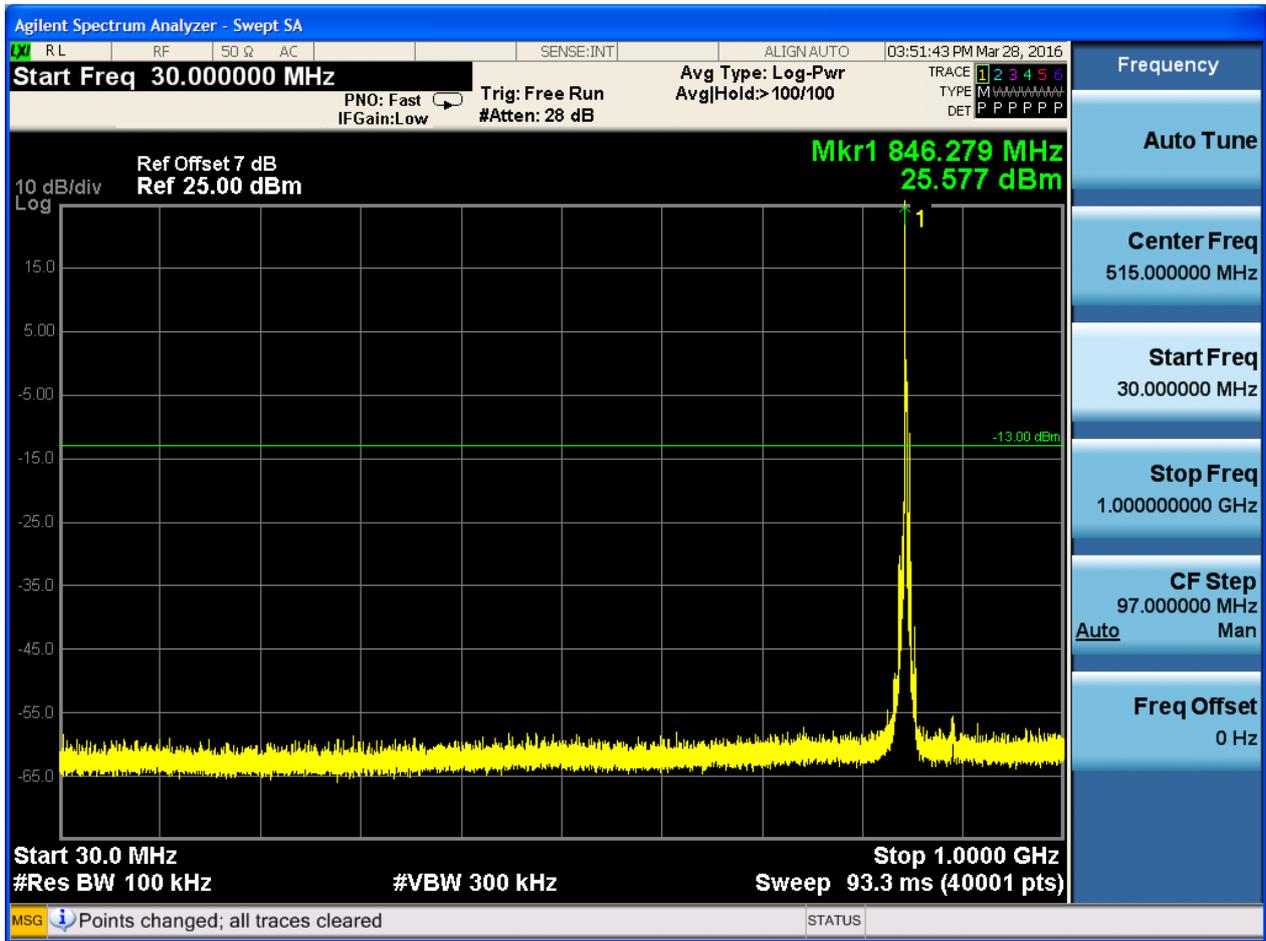


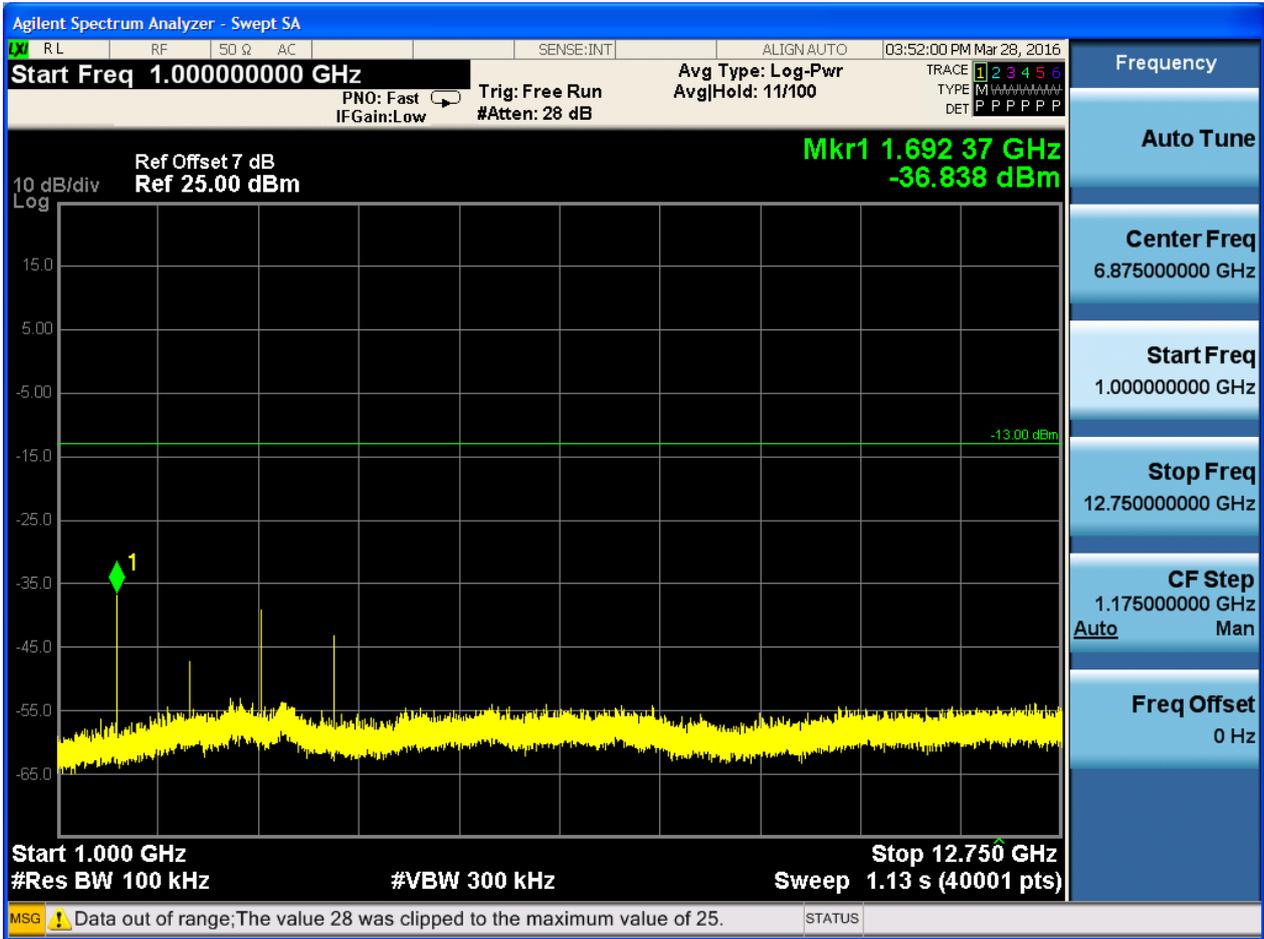


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





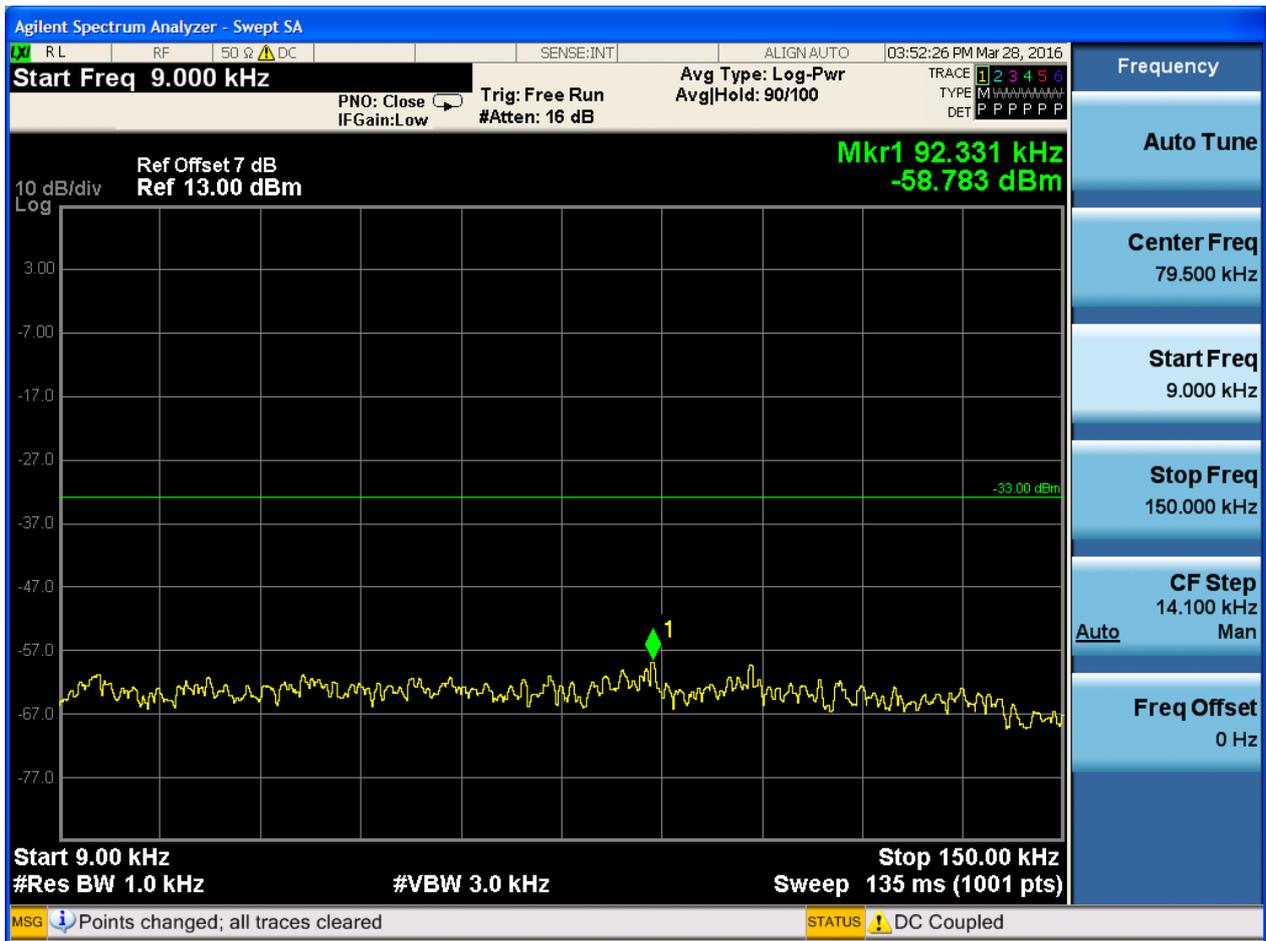


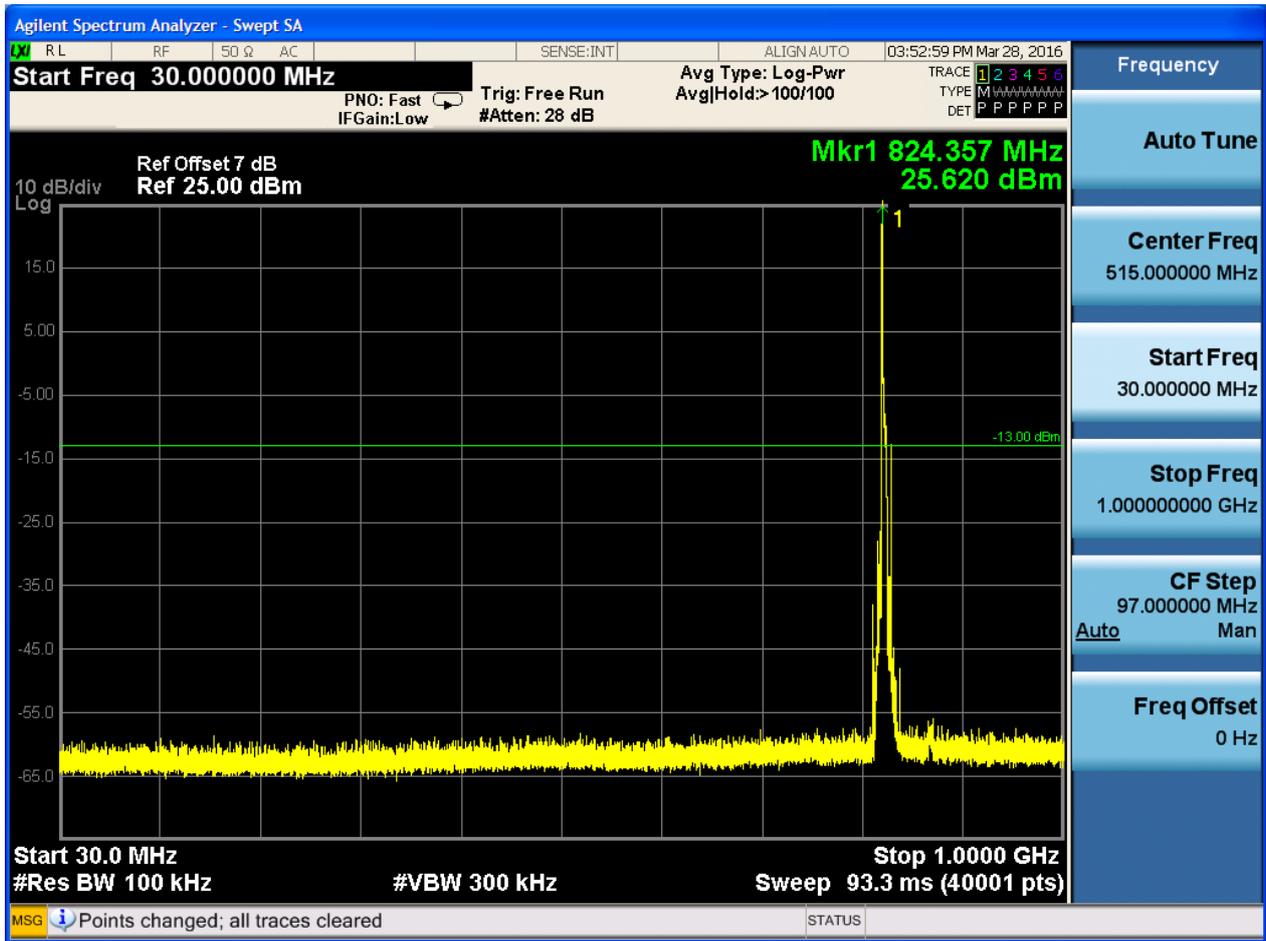


6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

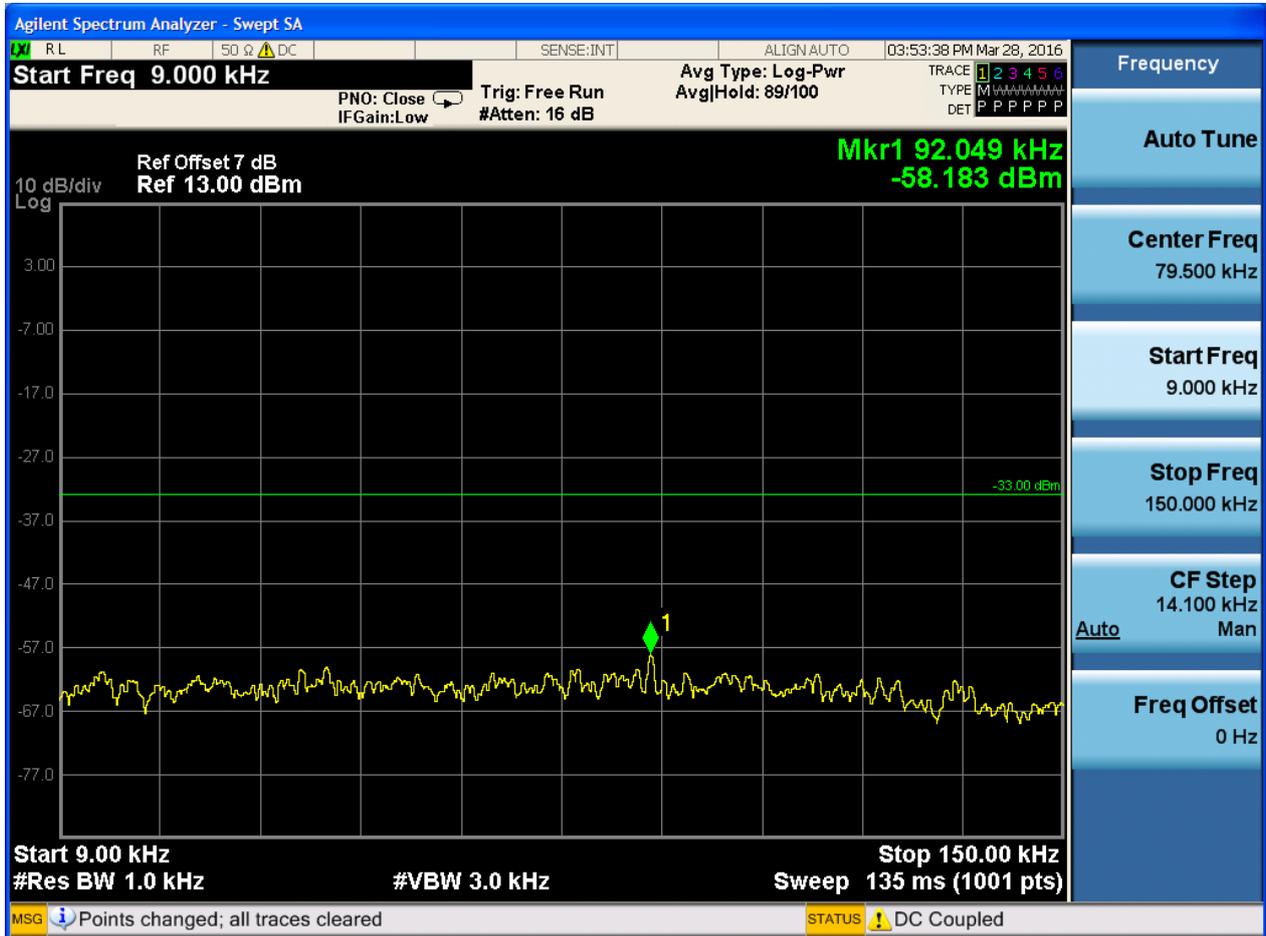


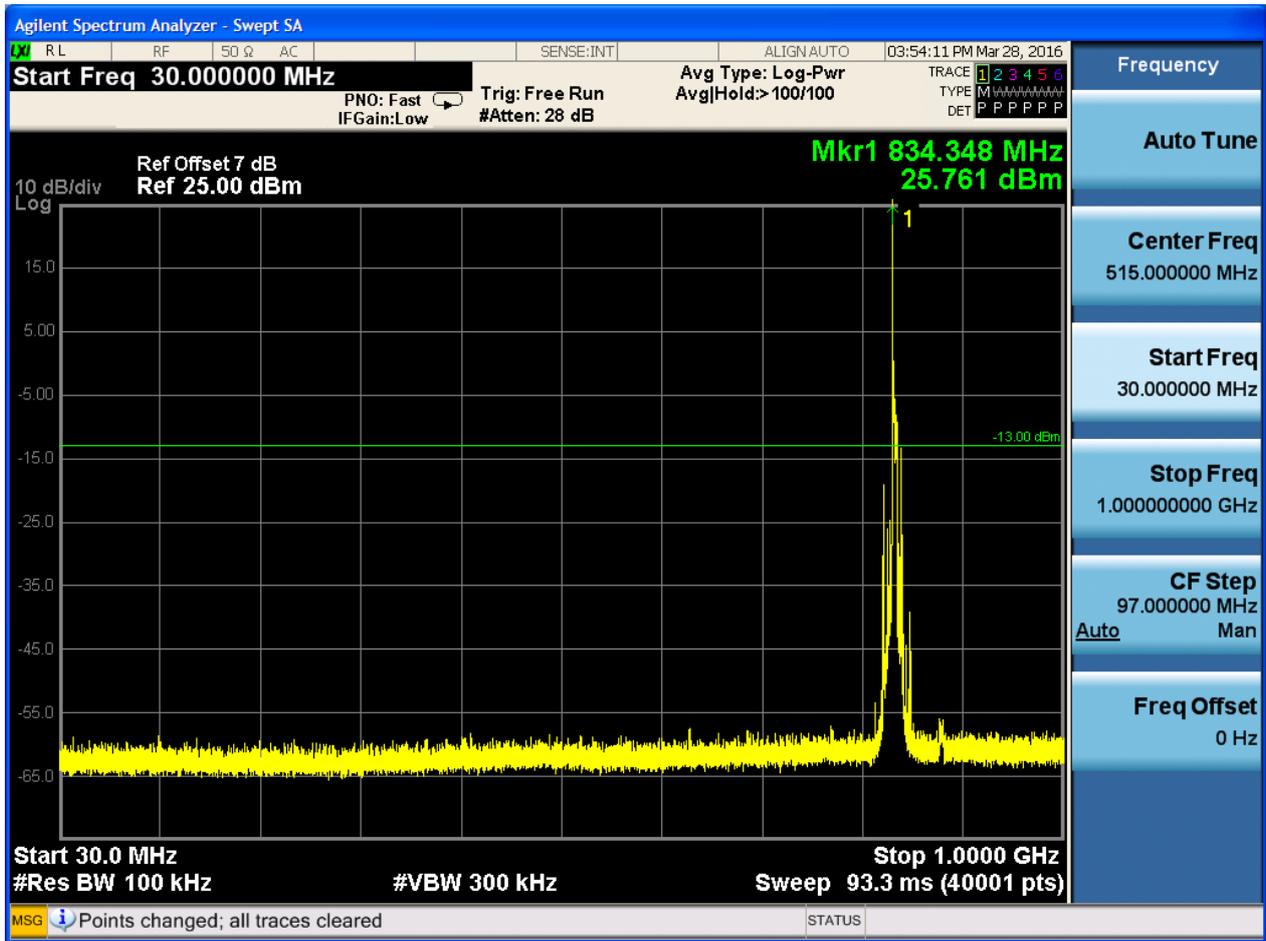


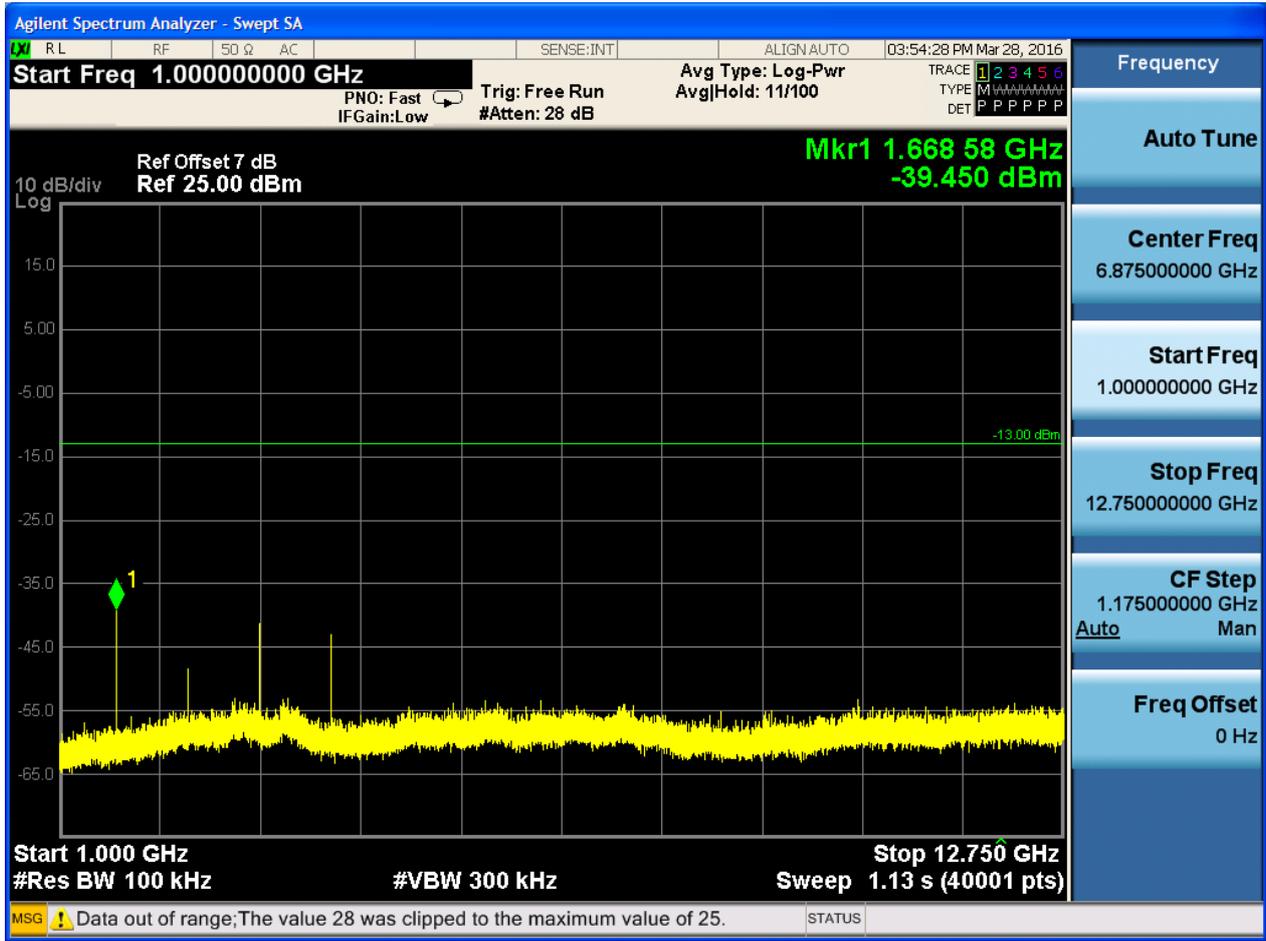


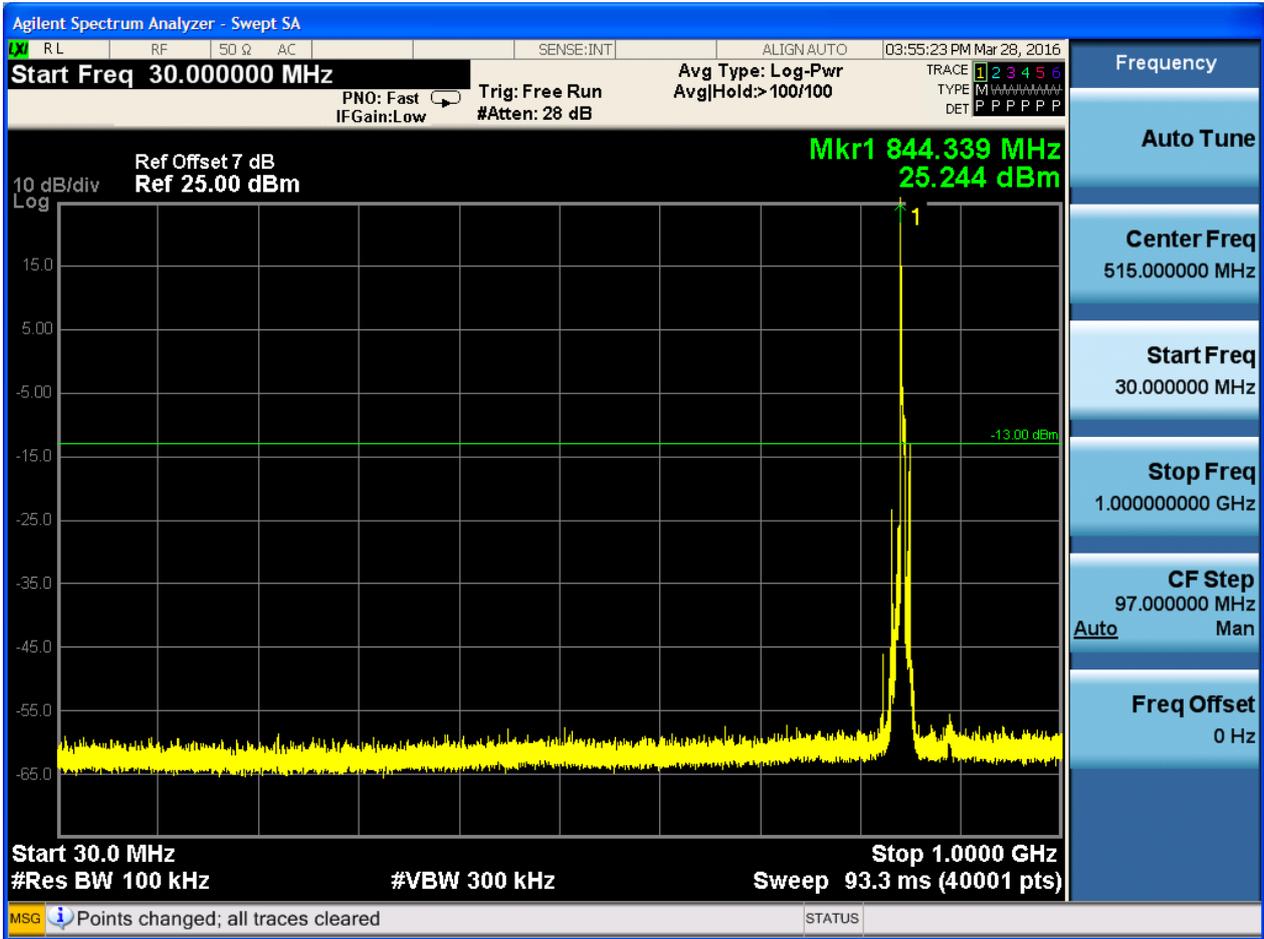
6.1.1.2.3.2 Test Channel = MCH

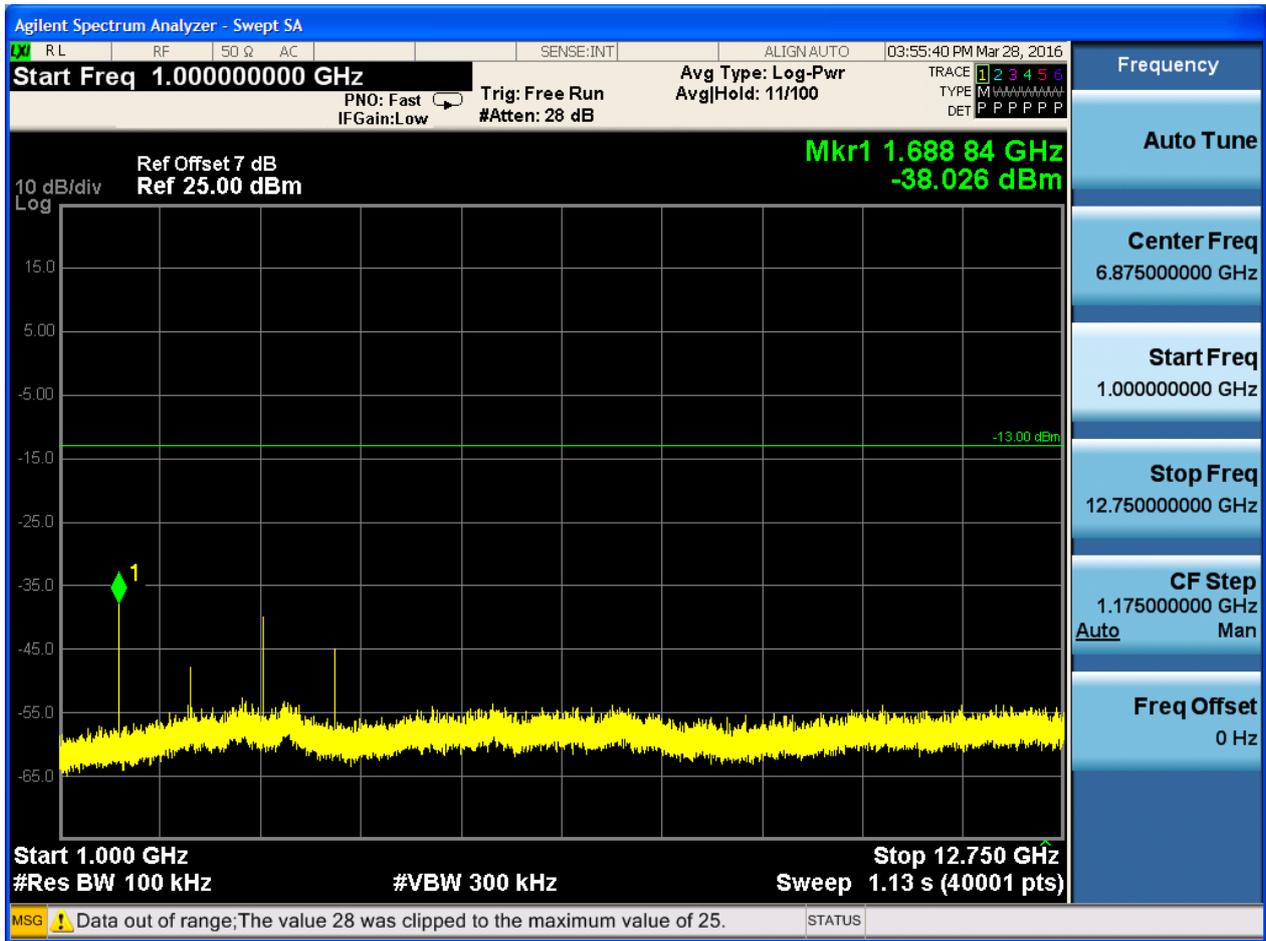
6.1.1.2.3.2.1 Test RB = RB1#0









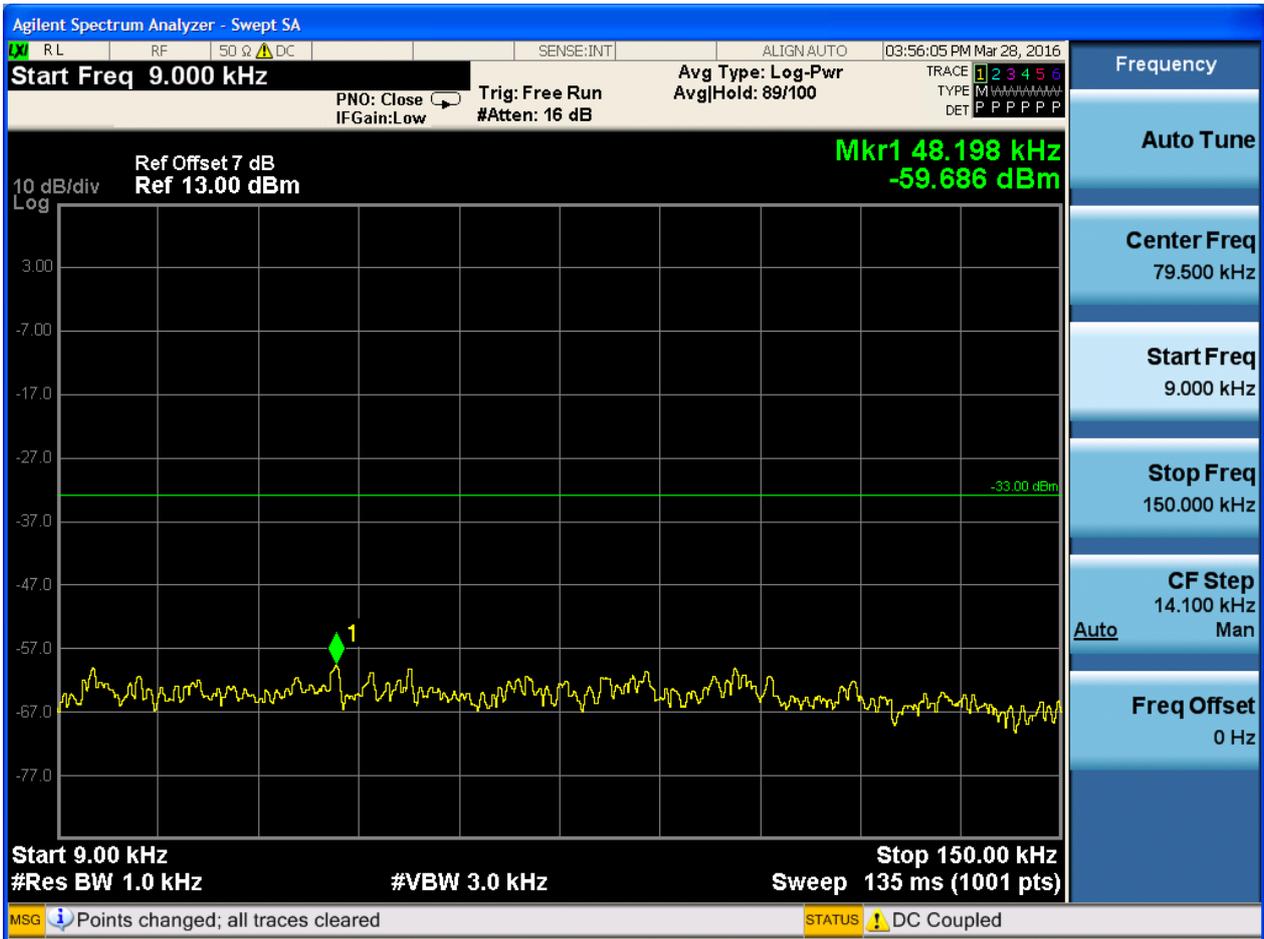


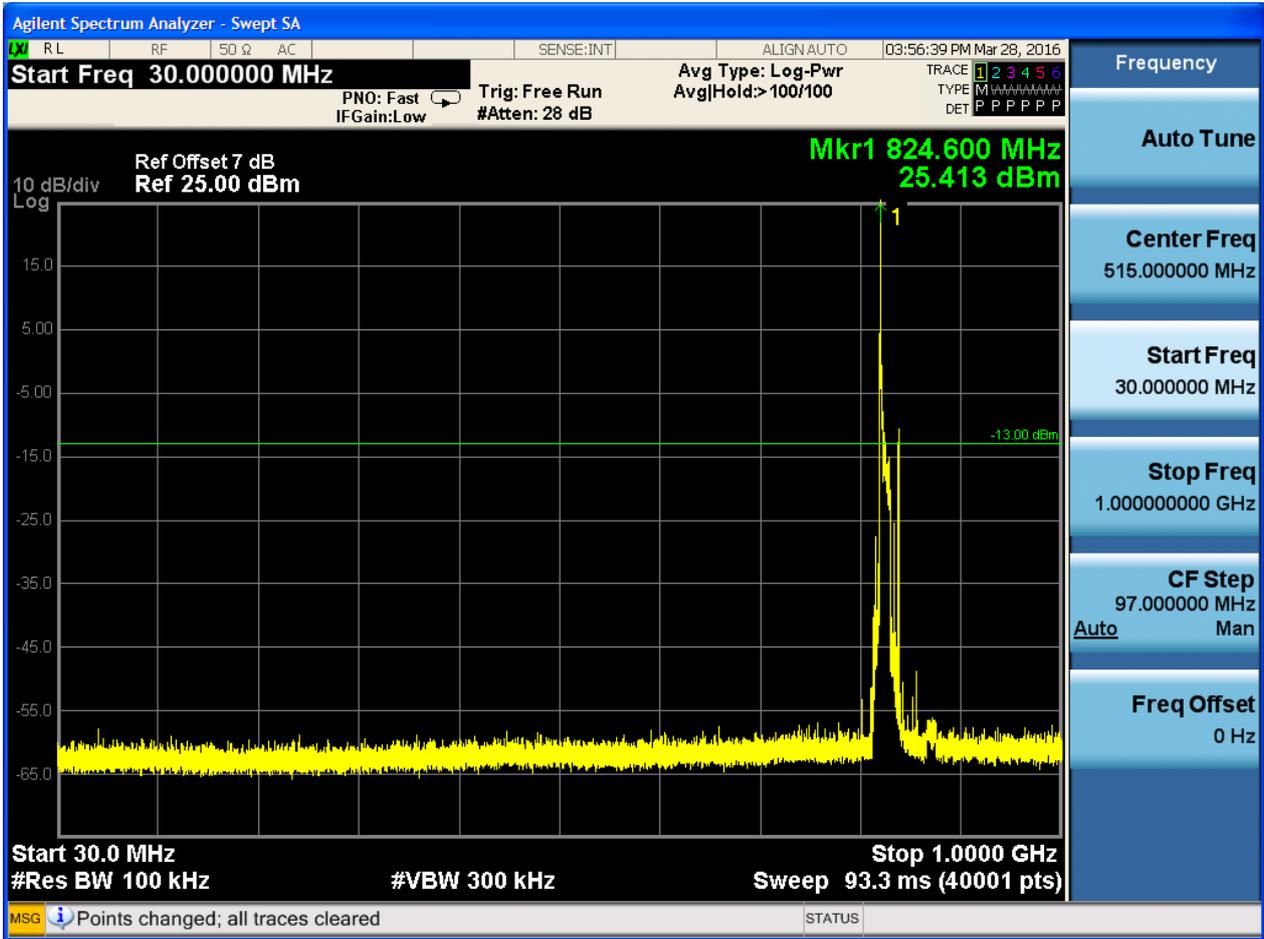


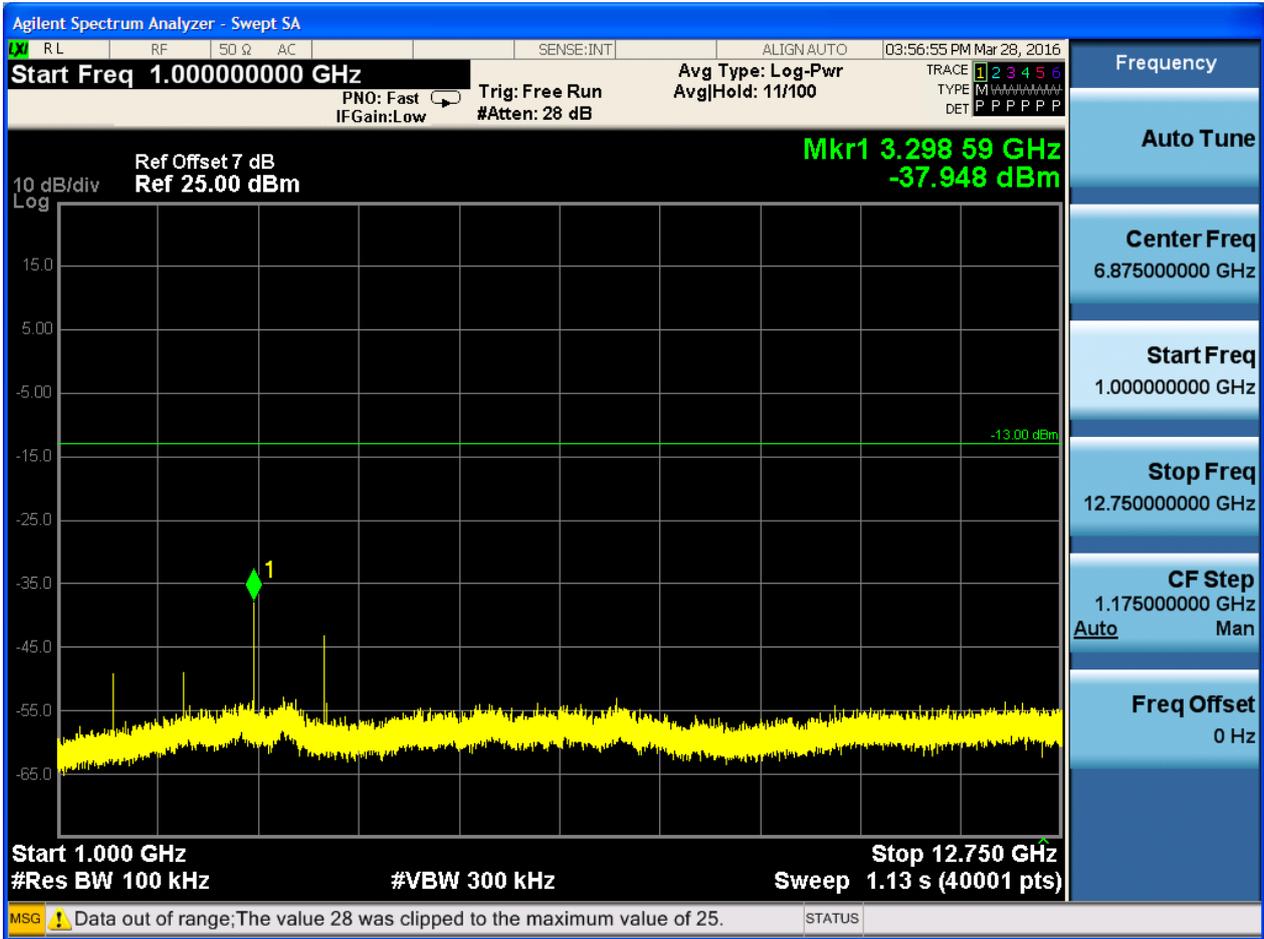
6.1.1.2.4 Test Bandwidth = 10

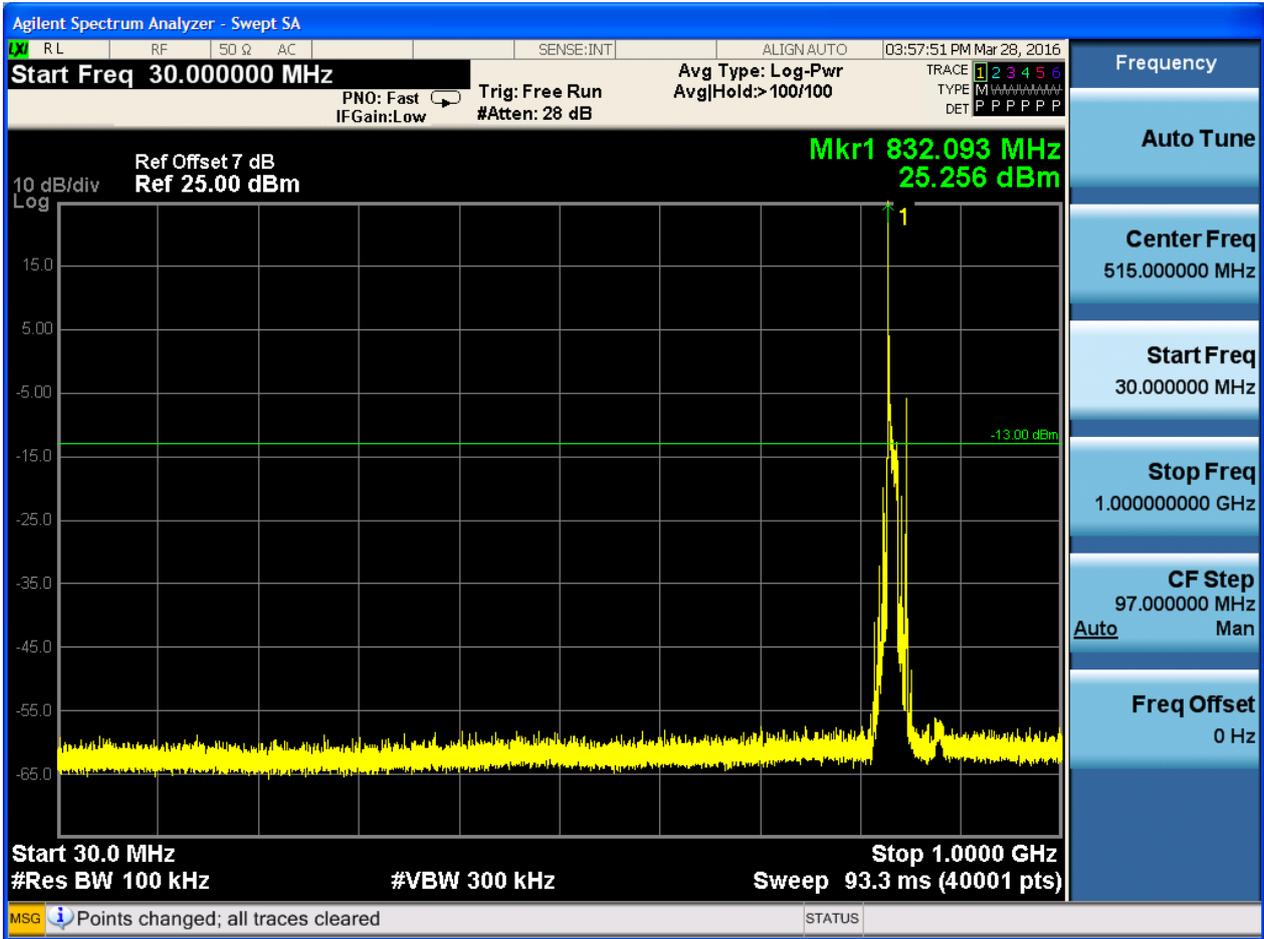
6.1.1.2.4.1 Test Channel = LCH

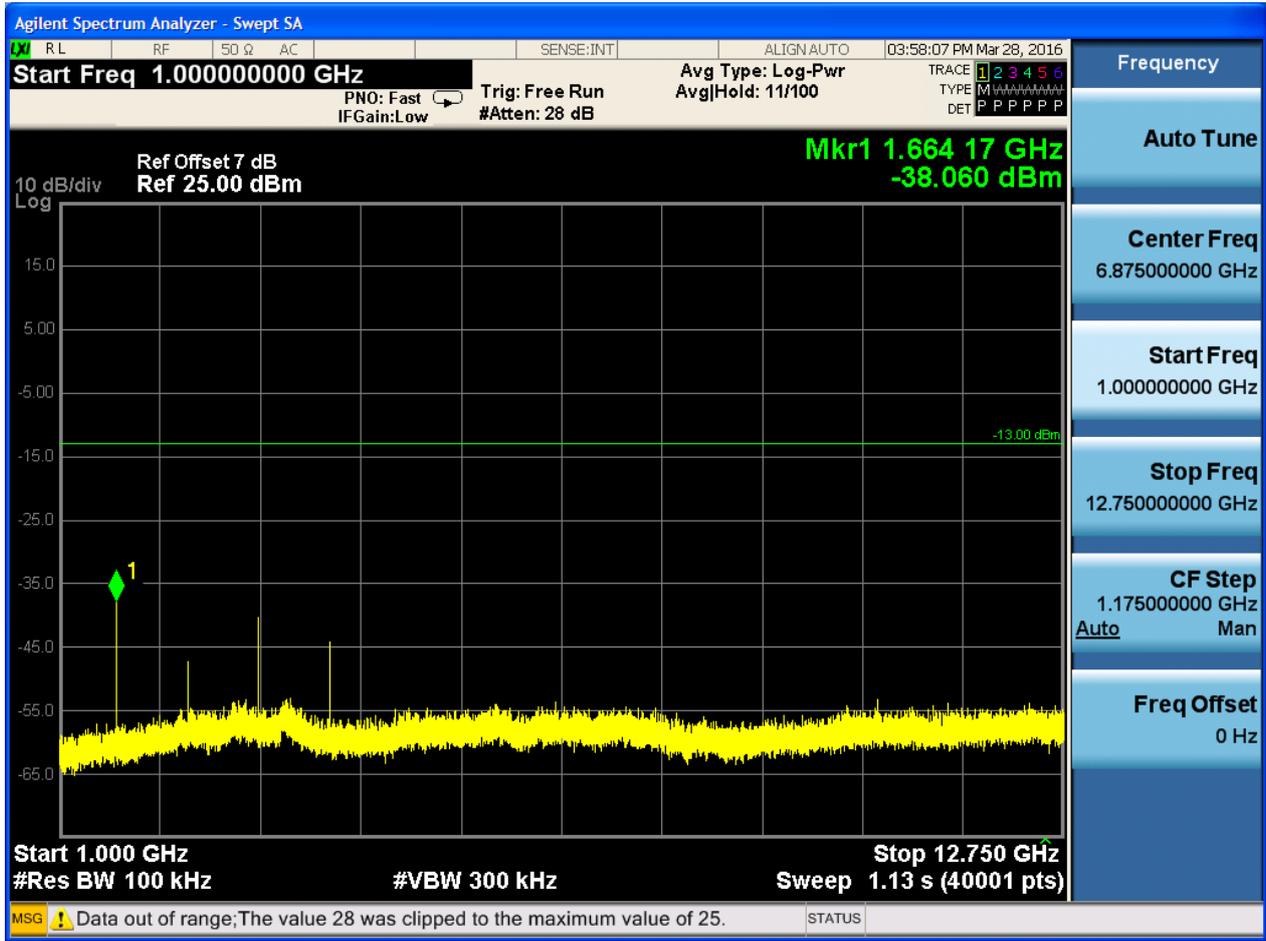
6.1.1.2.4.1.1 Test RB = RB1#0

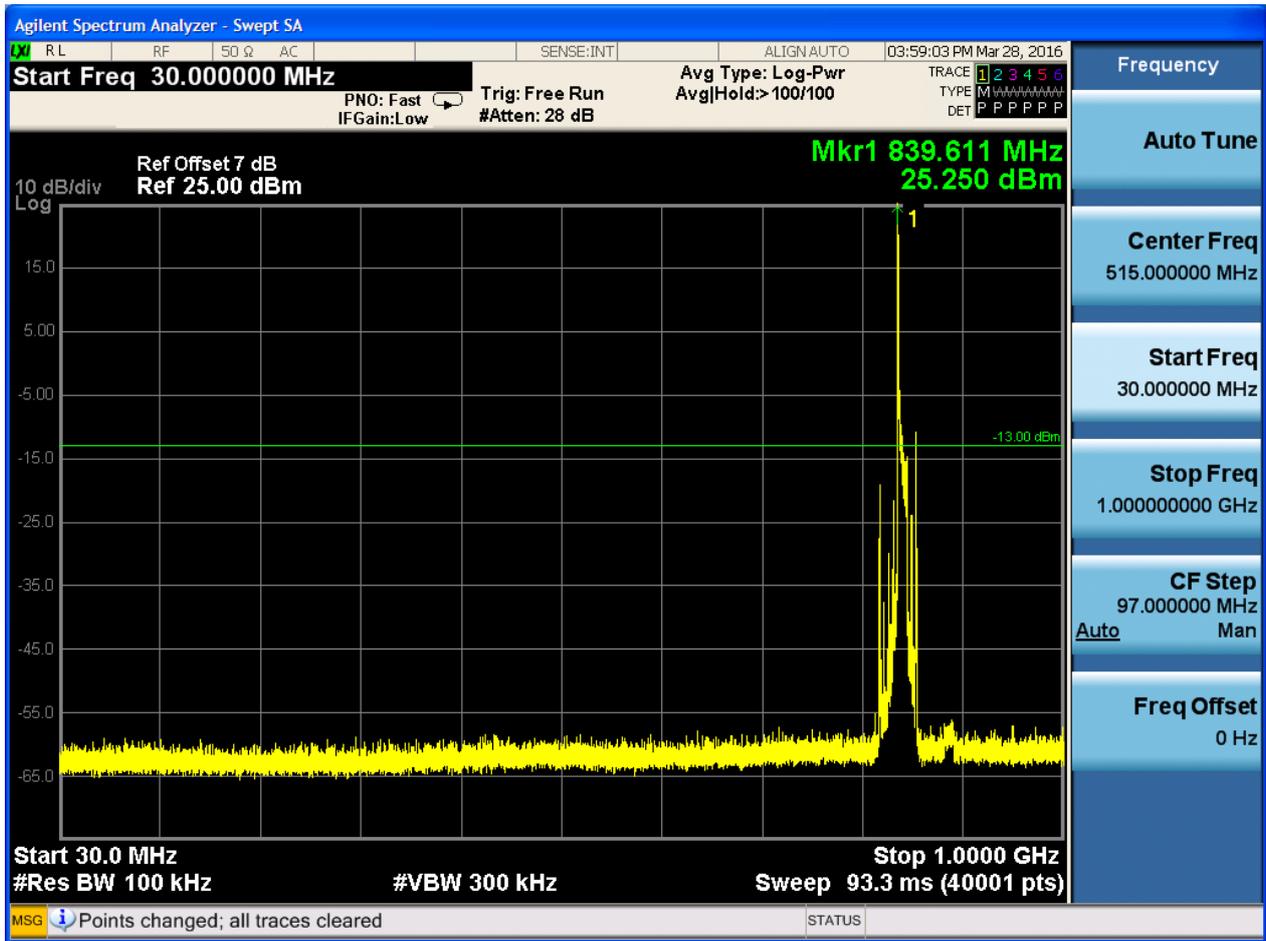














7Appendix_G: Field Strength of Spurious Radiation

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

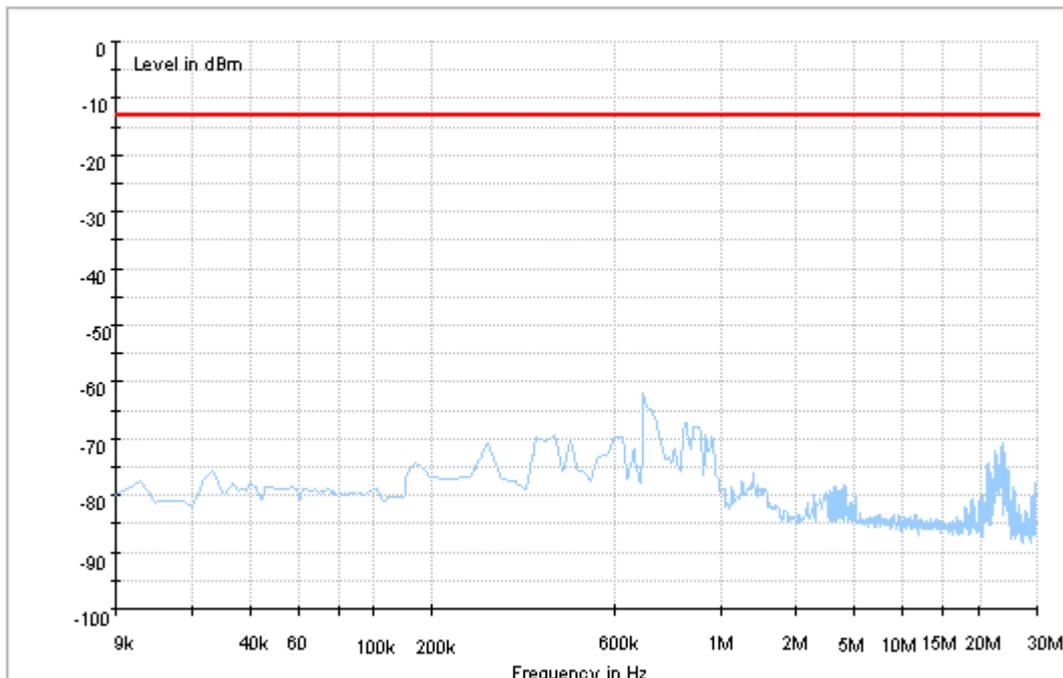
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

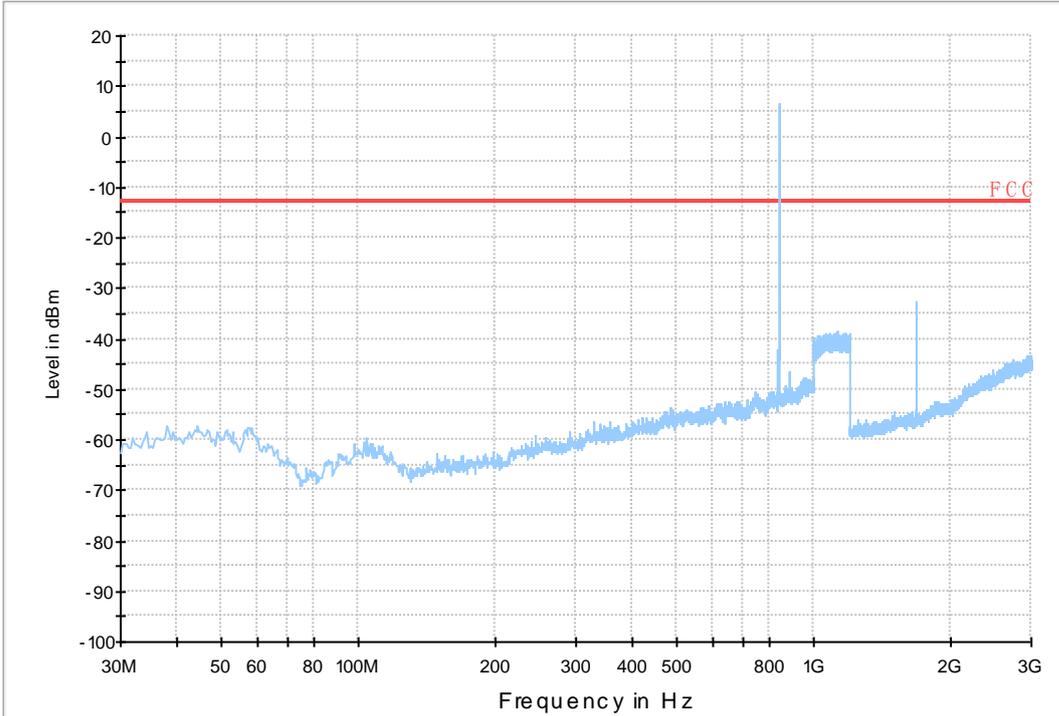
7.1 For LTE

7.1.1 Test Band = BAND5

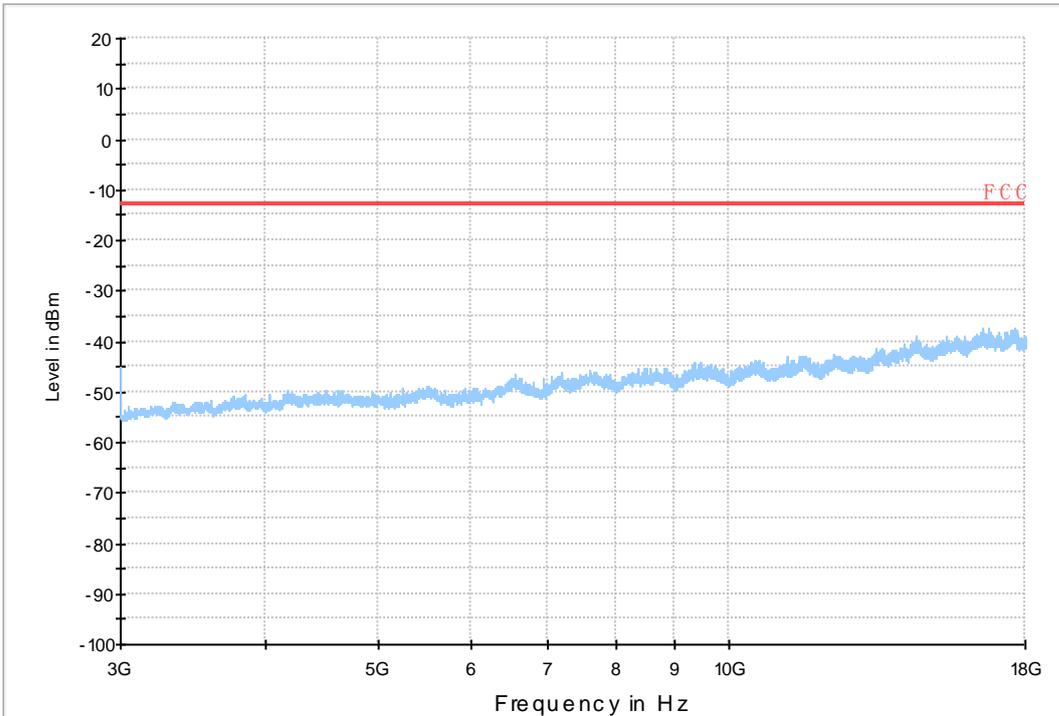
7.1.1.1 Test Bandwidth = 1.4



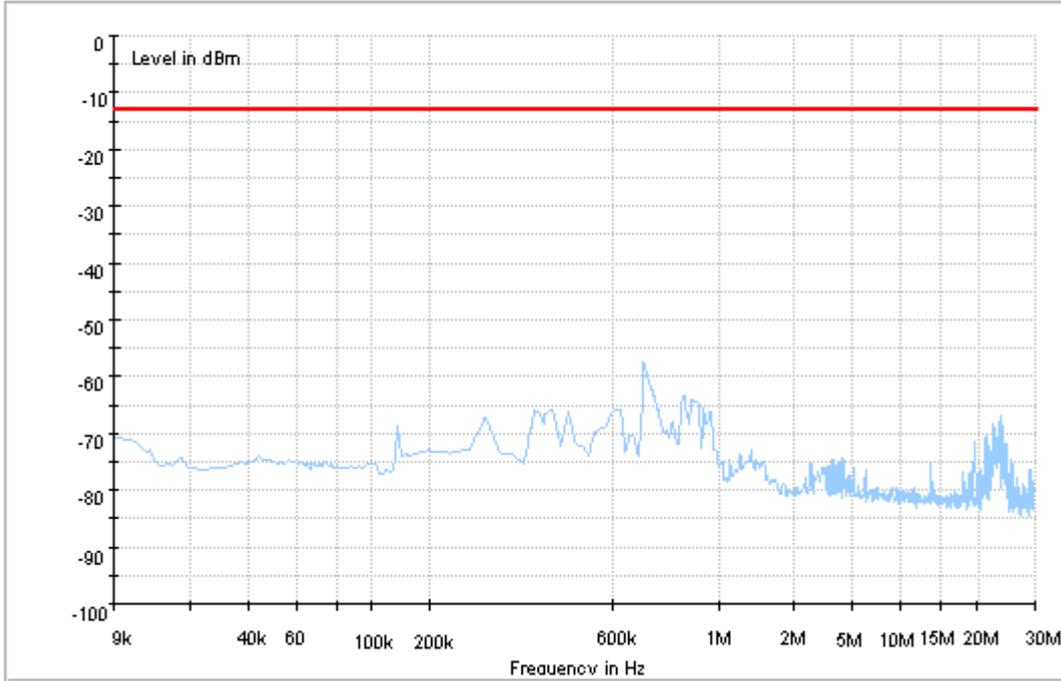
Copy of RSE-TX-DIRECTOR BELOW 1G_L



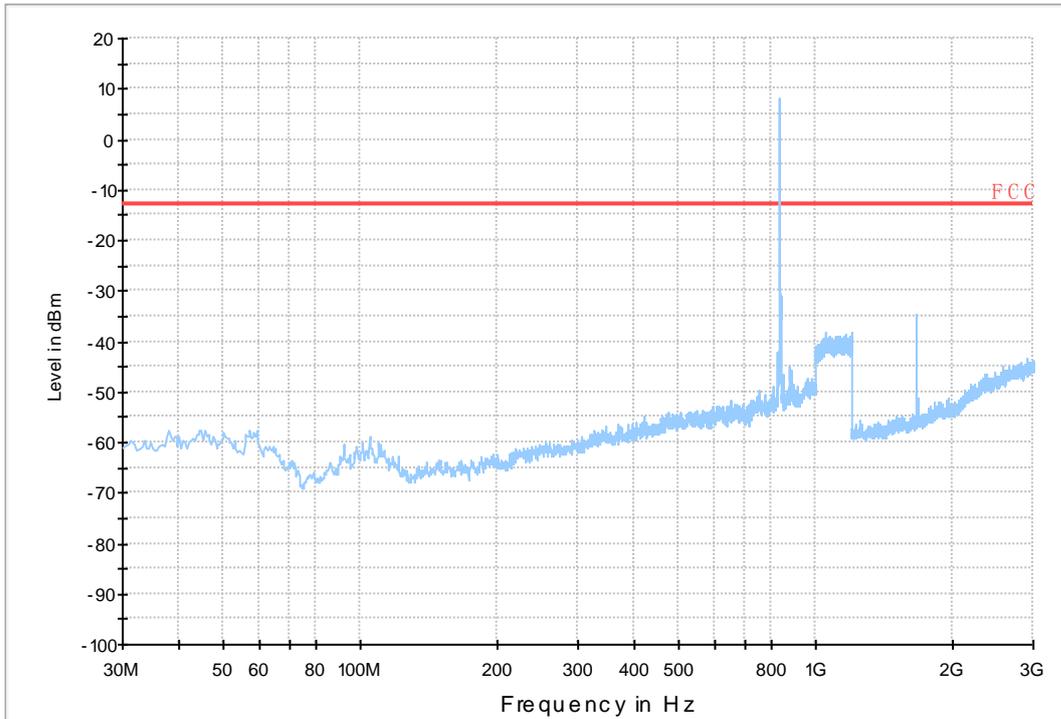
Copy of RSE-TX-DIRECTOR BELOW 1G_H



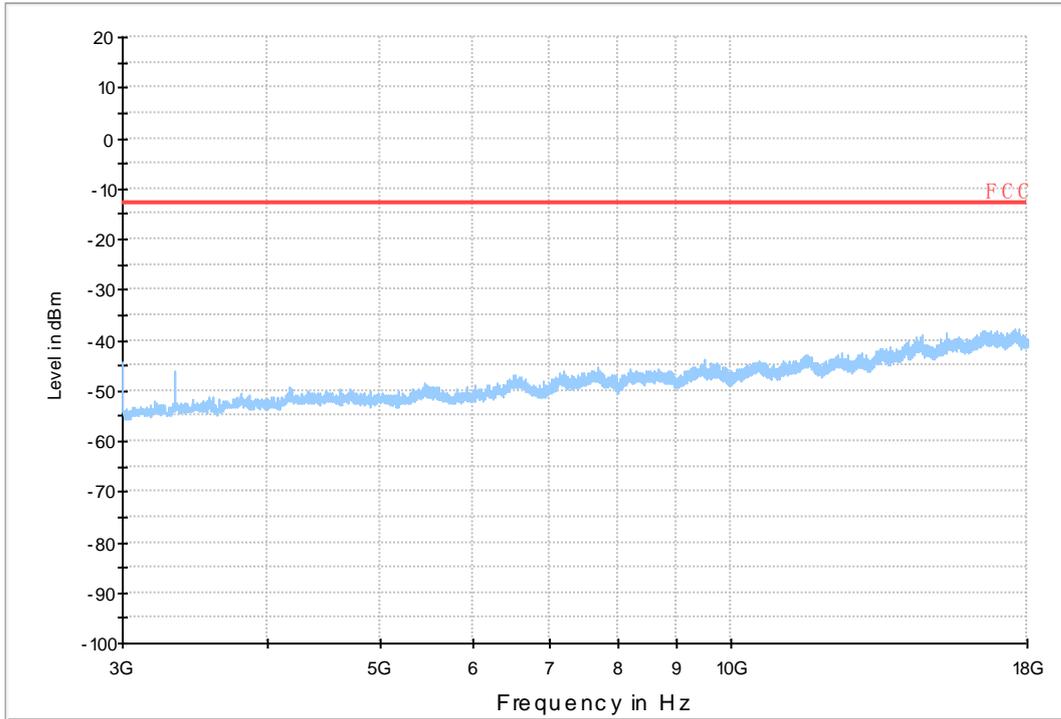
7.1.1.3 Test Bandwidth = 10



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
BAND5	LTE/TM1	1.4	LCH	TN	VL	-0.8	-0.00097	PASS
					VN	-0.99	-0.0012	PASS
					VH	-0.49	-0.00059	PASS
			MCH	TN	VL	0.51	0.00061	PASS
					VN	0.97	0.00116	PASS
					VH	0.49	0.00059	PASS
			HCH	TN	VL	-0.87	-0.00103	PASS
					VN	0.64	0.00075	PASS
					VH	-0.96	-0.00113	PASS
		3	LCH	TN	VL	-9.91	-0.012	PASS
					VN	-1.43	-0.00173	PASS
					VH	12	0.01454	PASS
			MCH	TN	VL	6.39	0.00764	PASS
					VN	-2.59	-0.0031	PASS
					VH	-0.9	-0.00108	PASS
			HCH	TN	VL	17.05	0.02012	PASS
					VN	7.64	0.00901	PASS
					VH	-3.58	-0.00422	PASS
		5	LCH	TN	VL	-5.21	-0.0063	PASS
					VN	-2.1	-0.00254	PASS
					VH	1.89	0.00229	PASS
			MCH	TN	VL	0.24	0.00029	PASS
					VN	-7.48	-0.00894	PASS
					VH	-4.53	-0.00542	PASS
			HCH	TN	VL	-1.65	-0.00195	PASS
					VN	-5.36	-0.00633	PASS
					VH	6.25	0.00738	PASS
		10	LCH	TN	VL	-19.18	-0.02314	PASS
					VN	-0.54	-0.00065	PASS
					VH	2.92	0.00352	PASS
MCH	TN		VL	3.48	0.00416	PASS		
			VN	-17.22	-0.02059	PASS		
			VH	-13.58	-0.01623	PASS		
HCH	TN		VL	2.65	0.00314	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-0.01	-0.00001	PASS
					VH	-3.28	-0.00389	PASS
		1.4	LCH	TN	VL	-0.27	-0.00033	PASS
					VN	-0.63	-0.00076	PASS
					VH	-0.2	-0.00024	PASS
					VL	-0.59	-0.00071	PASS
			MCH	TN	VN	-0.69	-0.00082	PASS
					VH	-0.83	-0.00099	PASS
					VL	-0.6	-0.00071	PASS
					VN	-0.54	-0.00065	PASS
			HCH	TN	VH	0.04	0.00005	PASS
					VL	-7.8	-0.00945	PASS
					VN	6.72	0.00814	PASS
					VH	2.09	0.00253	PASS
		3	LCH	TN	VL	5.24	0.00626	PASS
					VN	4.02	0.00481	PASS
					VH	-5.51	-0.00659	PASS
					VL	7.51	0.00886	PASS
			MCH	TN	VN	11.87	0.01401	PASS
					VH	-5.61	-0.00662	PASS
					VL	-9.21	-0.01114	PASS
					VN	-1.03	-0.00125	PASS
			HCH	TN	VH	-4.13	-0.005	PASS
					VL	-1.67	-0.002	PASS
					VN	-3.16	-0.00378	PASS
					VH	-3.68	-0.0044	PASS
		5	LCH	TN	VL	4.08	0.00482	PASS
					VN	14.45	0.01707	PASS
					VH	4.89	0.00578	PASS
					VL	7.27	0.00877	PASS
			MCH	TN	VN	-18.9	-0.0228	PASS
					VH	0.56	0.00068	PASS
					VL	-4.99	-0.00597	PASS
					VN	29.01	0.03468	PASS
			HCH	TN	VH	20.5	0.02451	PASS
					VL	-8.98	-0.01064	PASS
					VN	-3.68	-0.0044	PASS
					VH	3.33	0.00395	PASS
		10	LCH	TN	VH	3.33	0.00395	PASS
					VL	7.27	0.00877	PASS
					VN	-18.9	-0.0228	PASS
					VH	0.56	0.00068	PASS
MCH	TN		VL	-4.99	-0.00597	PASS		
			VN	29.01	0.03468	PASS		
			VH	20.5	0.02451	PASS		
			VL	-8.98	-0.01064	PASS		
HCH	TN		VN	-3.68	-0.0044	PASS		
			VH	3.33	0.00395	PASS		
			VL	7.27	0.00877	PASS		
			VN	-18.9	-0.0228	PASS		
HCH	TN	VH	0.56	0.00068	PASS			
		VL	-4.99	-0.00597	PASS			
		VN	29.01	0.03468	PASS			
		VH	20.5	0.02451	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
BAND5	LTE/TM1	1.4	LCH	VN	-30	1.13	0.00137	PASS
					-20	0.7	0.00085	PASS
					-10	0.43	0.00052	PASS
					0	0.56	0.00068	PASS
					10	0.72	0.00087	PASS
					20	-0.26	-0.00032	PASS
					30	0.3	0.00036	PASS
					40	0.26	0.00032	PASS
					50	0.43	0.00052	PASS
			MCH	VN	-30	-0.07	-0.00008	PASS
					-20	0.23	0.00027	PASS
					-10	0.06	0.00007	PASS
					0	0.63	0.00075	PASS
					10	0.63	0.00075	PASS
					20	0.39	0.00047	PASS
		30			0.76	0.00091	PASS	
		40			-0.2	-0.00024	PASS	
		50			0.26	0.00031	PASS	
		HCH	VN	-30	-0.51	-0.0006	PASS	
				-20	-1.72	-0.00203	PASS	
				-10	-1.19	-0.0014	PASS	
				0	-1.42	-0.00167	PASS	
				10	-2	-0.00236	PASS	
				20	0.04	0.00005	PASS	
				30	0.21	0.00025	PASS	
				40	0.73	0.00086	PASS	
				50	0.27	0.00032	PASS	
		3	LCH	VN	-30	-0.4	-0.00048	PASS
					-20	-2.63	-0.00319	PASS
					-10	5.54	0.00671	PASS
0	-0.09				-0.00011	PASS		
10	7.14				0.00865	PASS		
20	0.2				0.00024	PASS		
30	-7.28				-0.00882	PASS		
40	0.77				0.00093	PASS		
50	0.53				0.00064	PASS		
MCH	VN			-30	2.53	0.00302	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	2.1	0.00251	PASS
					-10	1.29	0.00154	PASS
					0	-2.25	-0.00269	PASS
					10	6.64	0.00794	PASS
					20	5.19	0.0062	PASS
					30	-1.8	-0.00215	PASS
					40	1.27	0.00152	PASS
					50	5.05	0.00604	PASS
					HCH	VN	-30	5.58
			-20	2.93			0.00346	PASS
			-10	-5.06			-0.00597	PASS
			0	-5.31			-0.00627	PASS
			10	-3.62			-0.00427	PASS
			20	7.37			0.0087	PASS
			30	5.14			0.00606	PASS
			40	-1.76			-0.00208	PASS
			50	-1.54			-0.00182	PASS
			5	LCH	VN	-30	-3.95	-0.00478
		-20				-10.77	-0.01303	PASS
		-10				-0.59	-0.00071	PASS
		0				2.02	0.00244	PASS
		10				3.99	0.00483	PASS
		20				-2.93	-0.00355	PASS
		30				-0.93	-0.00113	PASS
		40				0.97	0.00117	PASS
		50				3.02	0.00365	PASS
		MCH		VN	-30	-1.77	-0.00212	PASS
					-20	-1.56	-0.00186	PASS
					-10	-2.12	-0.00253	PASS
					0	-1.59	-0.0019	PASS
					10	-3.32	-0.00397	PASS
					20	-1.36	-0.00163	PASS
					30	-1.04	-0.00124	PASS
					40	-3.05	-0.00365	PASS
					50	-0.47	-0.00056	PASS
		HCH	VN	-30	-10.34	-0.01222	PASS	
-20	9			0.01063	PASS			
-10	3.03			0.00358	PASS			
0	-5.52			-0.00652	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-0.41	-0.00048	PASS		
					20	-8.21	-0.0097	PASS		
					30	-10.44	-0.01233	PASS		
					40	5.22	0.00617	PASS		
					50	0.57	0.00067	PASS		
		10	LCH	VN	-30	-3.36	-0.00405	PASS		
					-20	12.66	0.01527	PASS		
					-10	9.83	0.01186	PASS		
					0	-20.13	-0.02428	PASS		
					10	-23.96	-0.0289	PASS		
					20	-16.79	-0.02025	PASS		
					30	-0.66	-0.0008	PASS		
					40	13.95	0.01683	PASS		
					50	-23.2	-0.02799	PASS		
					MCH	VN	-30	-32.46	-0.0388	PASS
							-20	28.61	0.0342	PASS
							-10	3.59	0.00429	PASS
							0	-21.11	-0.02524	PASS
							10	2.43	0.0029	PASS
							20	4.72	0.00564	PASS
							30	-9.13	-0.01091	PASS
	40						-17.81	-0.02129	PASS	
	HCH				VN	-30	-6.84	-0.0081	PASS	
		-20	4.58	0.00543		PASS				
		-10	-3.49	-0.00414		PASS				
		0	-9.38	-0.01111		PASS				
		10	1.1	0.0013		PASS				
		20	1.95	0.00231		PASS				
		30	2.32	0.00275		PASS				
	LTE/TM2	LCH	VN	-30	0.31	0.00038	PASS			
				-20	0.19	0.00023	PASS			
				-10	-0.34	-0.00041	PASS			
				0	0.31	0.00038	PASS			
10				-0.17	-0.00021	PASS				
20				0.46	0.00056	PASS				
30				0.19	0.00023	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	-0.79	-0.00096	PASS	
					50	0.83	0.00101	PASS	
			MCH	VN	-30	-1.79	-0.00214	PASS	
					-20	-0.93	-0.00111	PASS	
					-10	-0.21	-0.00025	PASS	
					0	-0.41	-0.00049	PASS	
					10	-2.13	-0.00255	PASS	
					20	-0.64	-0.00077	PASS	
					30	1.13	0.00135	PASS	
					40	-0.34	-0.00041	PASS	
					50	0.4	0.00048	PASS	
					HCH	VN	-30	0.3	0.00035
			-20	-0.14			-0.00017	PASS	
			-10	-0.79			-0.00093	PASS	
			0	-1			-0.00118	PASS	
			10	-1.3			-0.00153	PASS	
			20	0.74			0.00087	PASS	
			30	0.49			0.00058	PASS	
		40	-1.43	-0.00169			PASS		
		3		LCH	VN	-30	-0.17	-0.00021	PASS
						-20	-2.37	-0.00287	PASS
						-10	0.7	0.00085	PASS
						0	4.19	0.00508	PASS
						10	-0.33	-0.0004	PASS
						20	3.75	0.00454	PASS
						30	-3.81	-0.00462	PASS
						40	15.94	0.01931	PASS
						50	-1.14	-0.00138	PASS
				MCH	VN	-30	-4.82	-0.00576	PASS
						-20	2.13	0.00255	PASS
						-10	3.62	0.00433	PASS
						0	-4.36	-0.00521	PASS
						10	8.2	0.0098	PASS
20	3.28					0.00392	PASS		
HCH	VN	30	0.19	0.00023	PASS				
		40	-9	-0.01076	PASS				
		50	7.31	0.00874	PASS				
			HCH	VN	-30	2.8	0.0033	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	0.66	0.00078	PASS		
					-10	0.16	0.00019	PASS		
					0	-2.73	-0.00322	PASS		
					10	-11.94	-0.01409	PASS		
					20	-6.14	-0.00724	PASS		
					30	-3.26	-0.00385	PASS		
					40	-0.31	-0.00037	PASS		
					50	-12.3	-0.01451	PASS		
		5	LCH	VN	-30	8.73	0.01056	PASS		
					-20	14.25	0.01724	PASS		
					-10	0.73	0.00088	PASS		
					0	0.46	0.00056	PASS		
					10	-0.63	-0.00076	PASS		
					20	-0.07	-0.00008	PASS		
					30	-0.8	-0.00097	PASS		
					40	-3.12	-0.00377	PASS		
					50	0.92	0.00111	PASS		
					MCH	VN	-30	-2.89	-0.00345	PASS
							-20	-2.02	-0.00241	PASS
							-10	-1.33	-0.00159	PASS
			0	-2.56			-0.00306	PASS		
			10	2.52			0.00301	PASS		
			20	-2.62			-0.00313	PASS		
			30	-2.22			-0.00265	PASS		
			40	1.22			0.00146	PASS		
			50	3.99			0.00477	PASS		
			HCH	VN			-30	0.74	0.00087	PASS
							-20	-3.55	-0.00419	PASS
							-10	0.57	0.00067	PASS
					0	-2.06	-0.00243	PASS		
					10	2.33	0.00275	PASS		
					20	-0.72	-0.00085	PASS		
		30			1.47	0.00174	PASS			
		40			-2.45	-0.00289	PASS			
		50	-2.19	-0.00259	PASS					
		10	LCH	VN	-30	-1.76	-0.00212	PASS		
-20	-5.72				-0.0069	PASS				
-10	0.63				0.00076	PASS				
0	-1.72				-0.00207	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	6.08	0.00733	PASS
					20	-1.89	-0.00228	PASS
					30	1.8	0.00217	PASS
					40	1.66	0.002	PASS
					50	-0.36	-0.00043	PASS
			MCH	VN	-30	-3.06	-0.00366	PASS
					-20	4.72	0.00564	PASS
					-10	4.39	0.00525	PASS
					0	2.9	0.00343	PASS
					10	3.81	0.0045	PASS
					20	-4.92	-0.00581	PASS
					30	-3.98	-0.0048	PASS
					40	0.94	0.00113	PASS
			HCH	VN	50	-3.45	-0.00416	PASS
					-30	3.91	0.00467	PASS
					-20	-4.68	-0.00559	PASS
					-10	7.77	0.00929	PASS
					0	-1.34	-0.00159	PASS
					10	-1.24	-0.00147	PASS
					20	-0.9	-0.00107	PASS
					30	0.29	0.00034	PASS
			40	0.11	0.00013	PASS		
			50	-1.79	-0.00217	PASS		

END