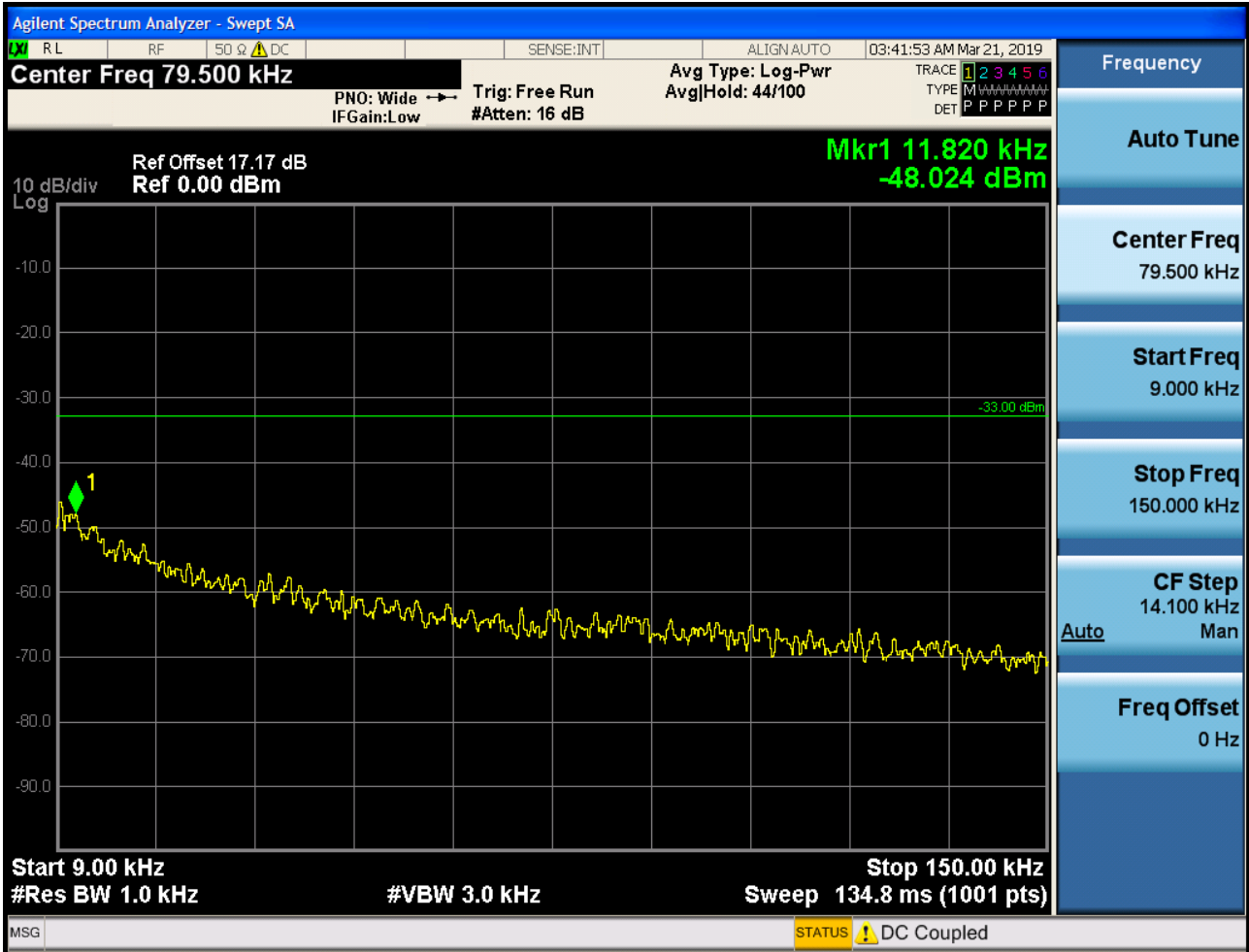
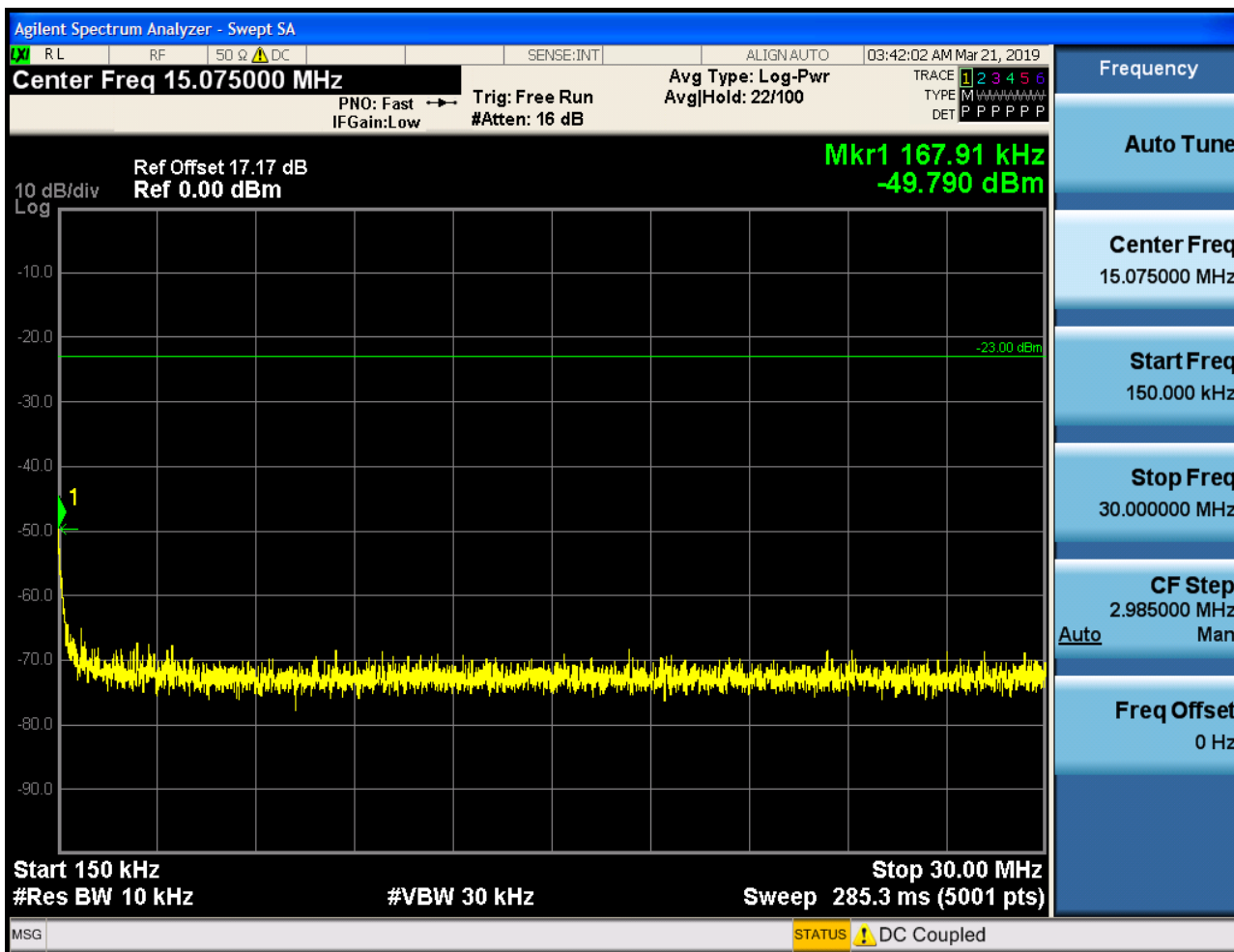


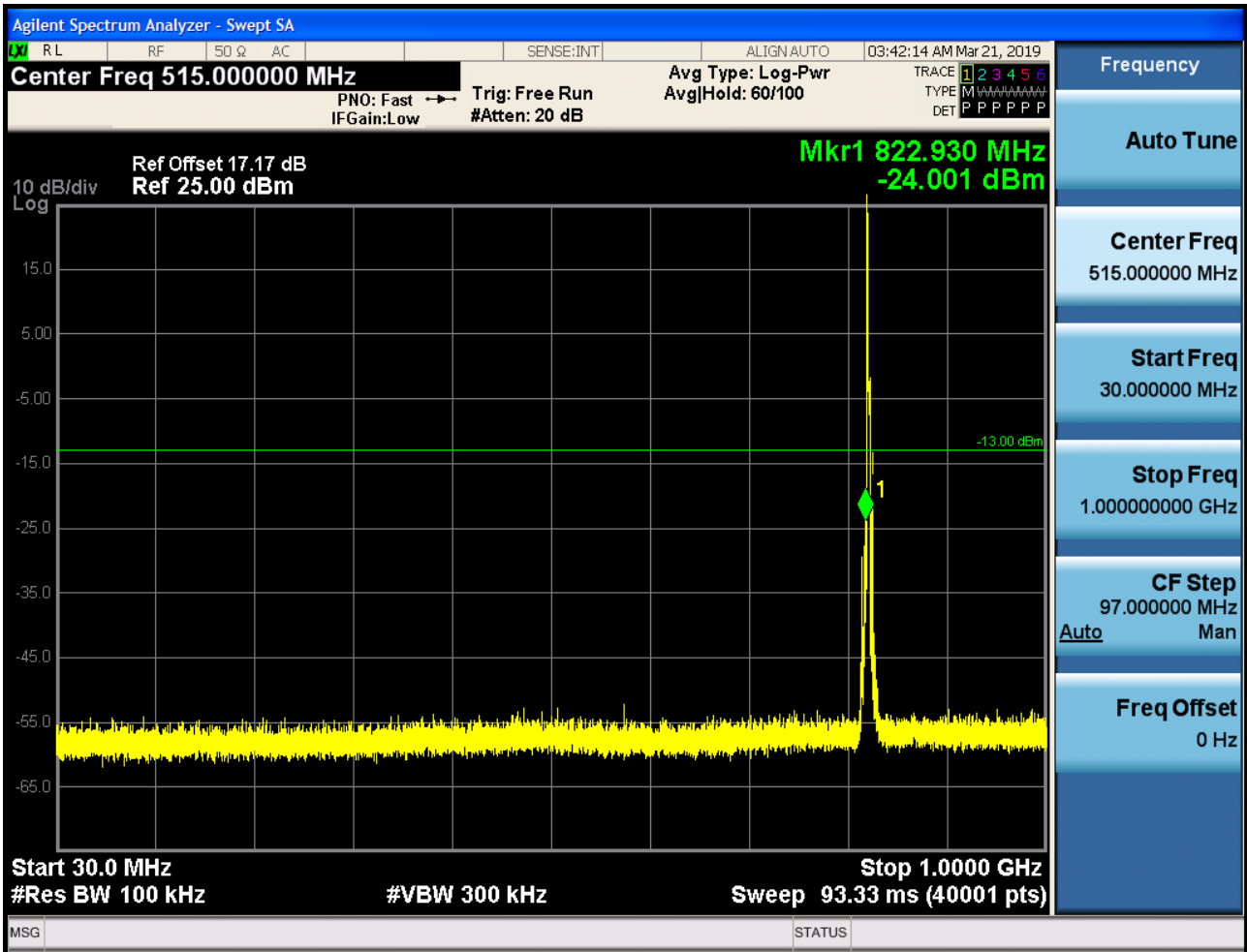
6.2.1.1.2 Test Bandwidth = 3

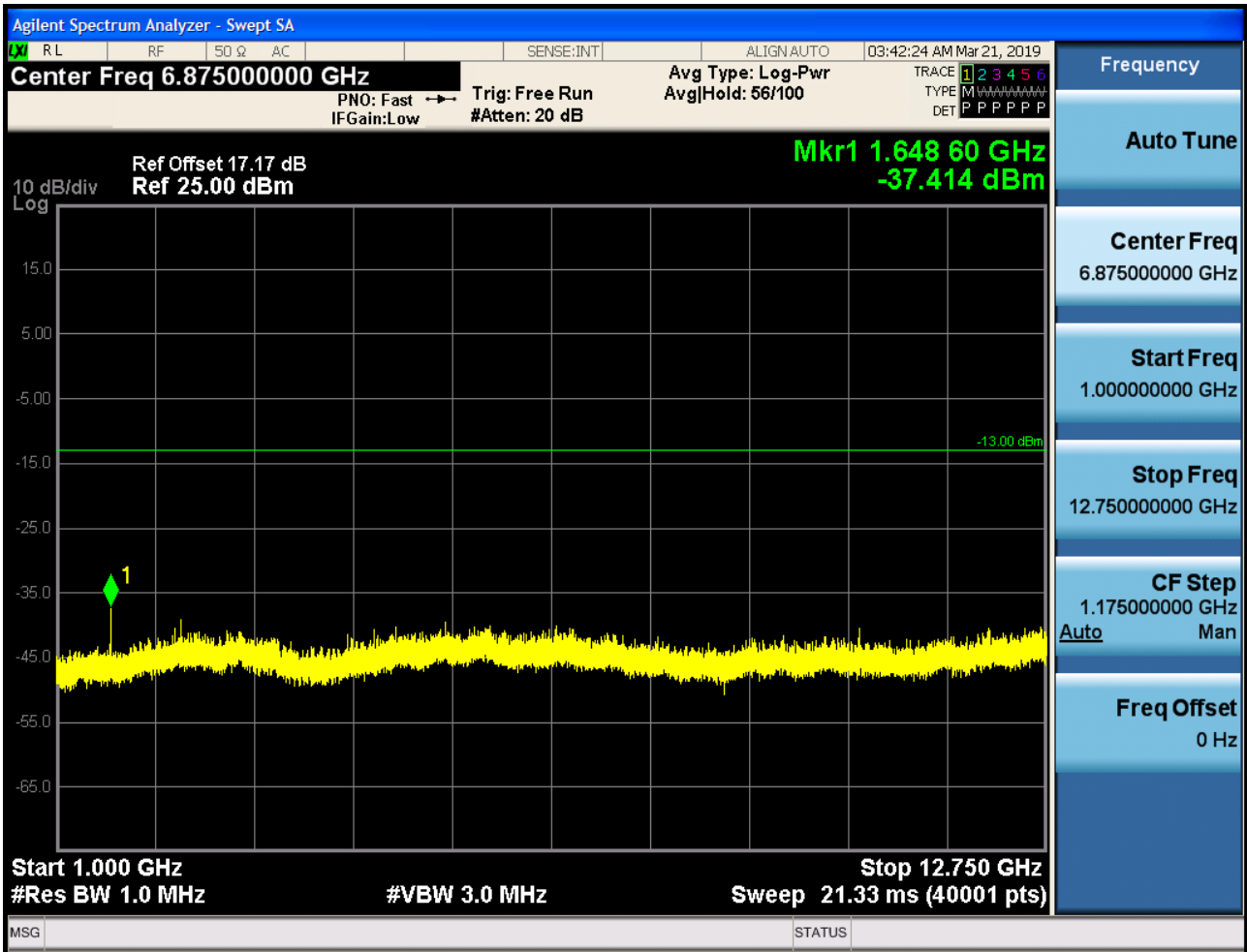
6.2.1.1.2.1 Test Channel = LCH

6.2.1.1.2.1.1 Test RB = RB1#0



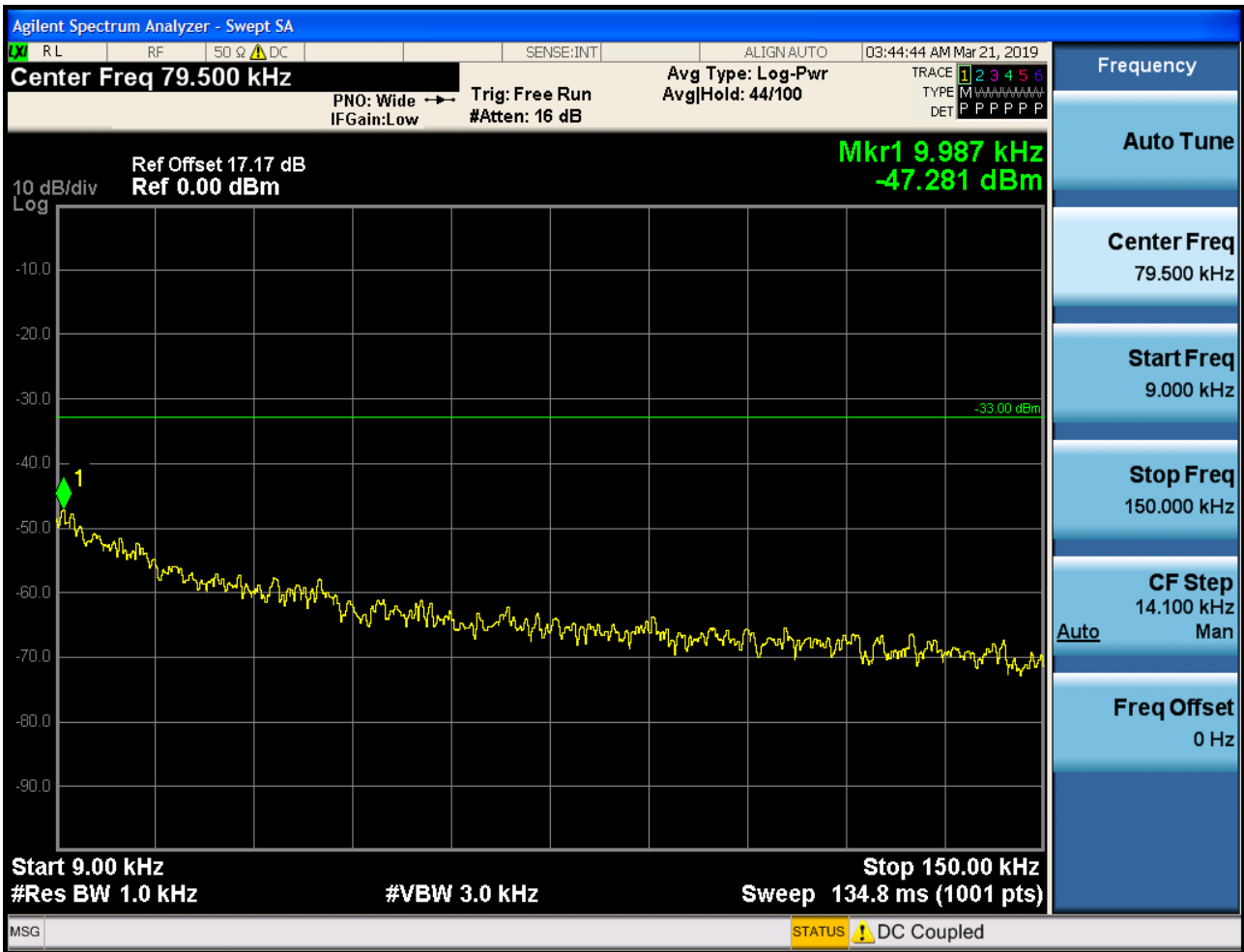


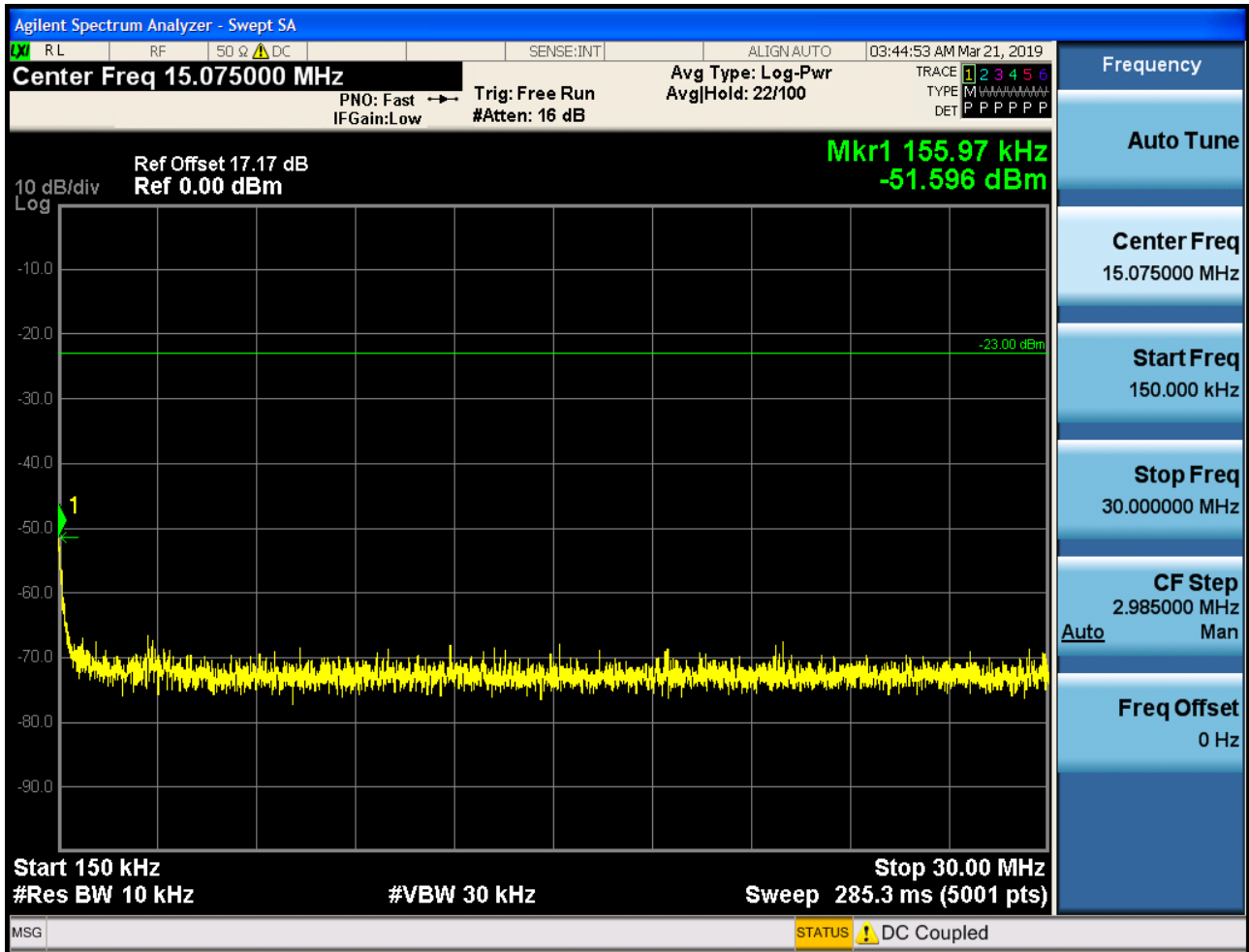


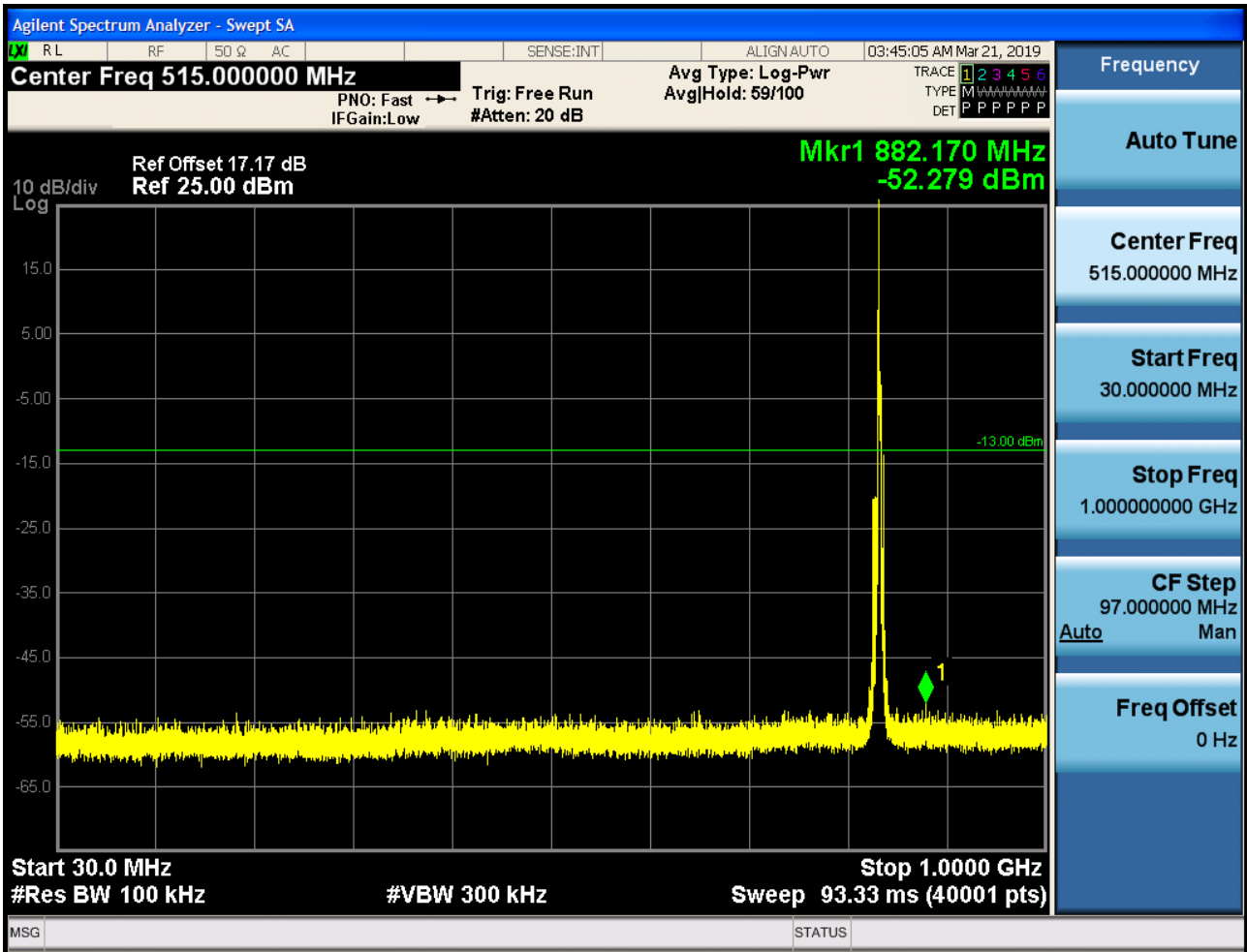


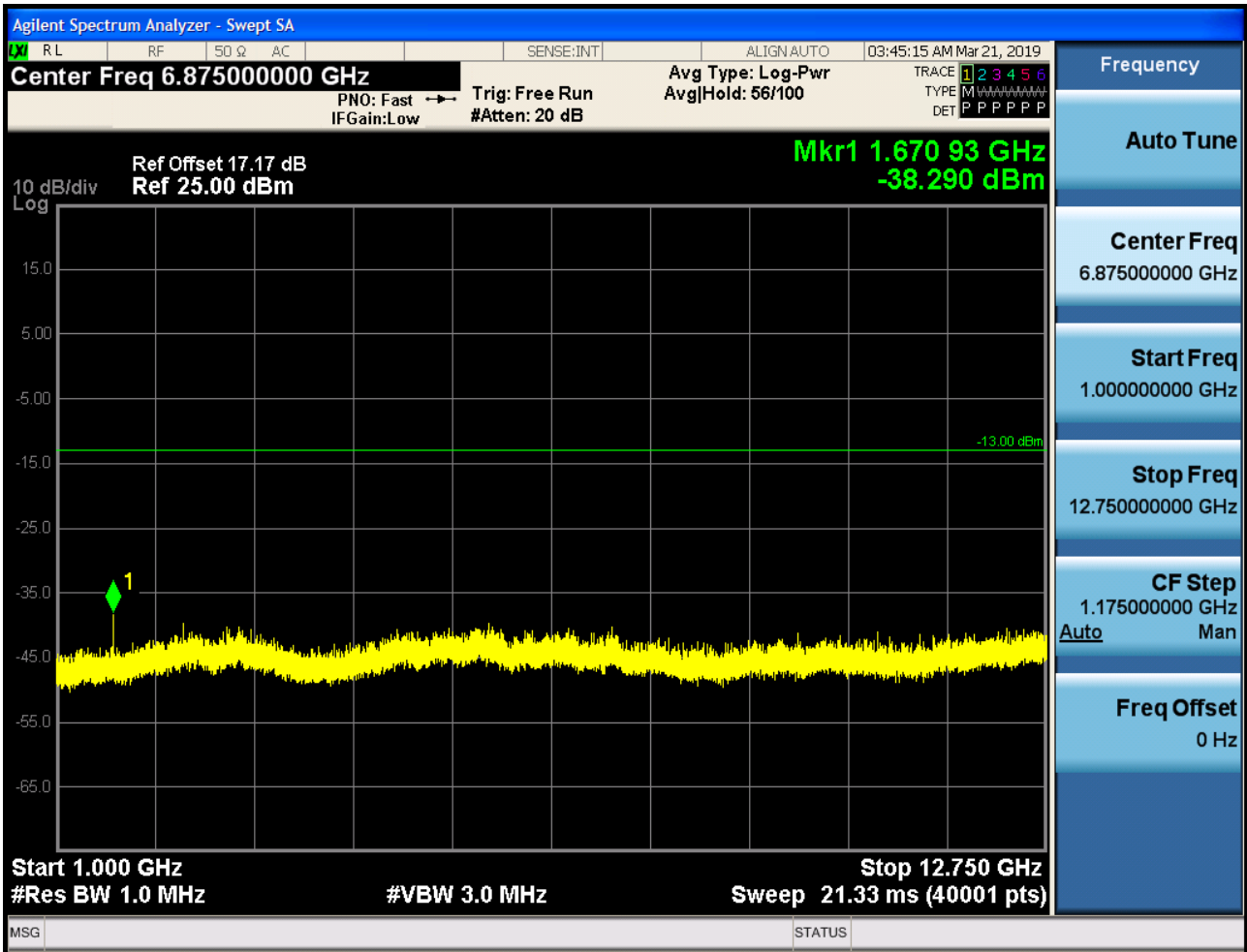
6.2.1.1.2.2 Test Channel = MCH

6.2.1.1.2.2.1 Test RB = RB1#0



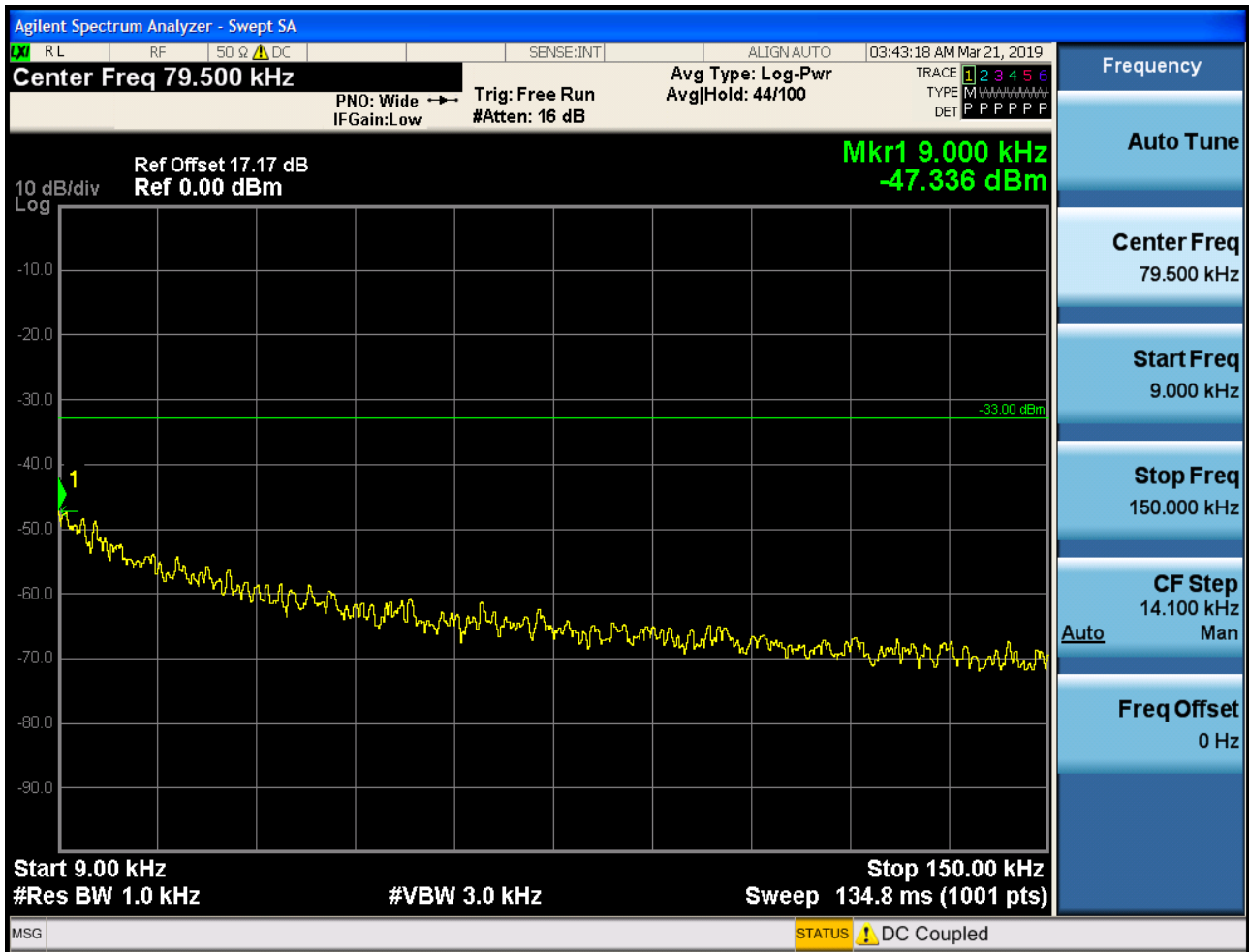


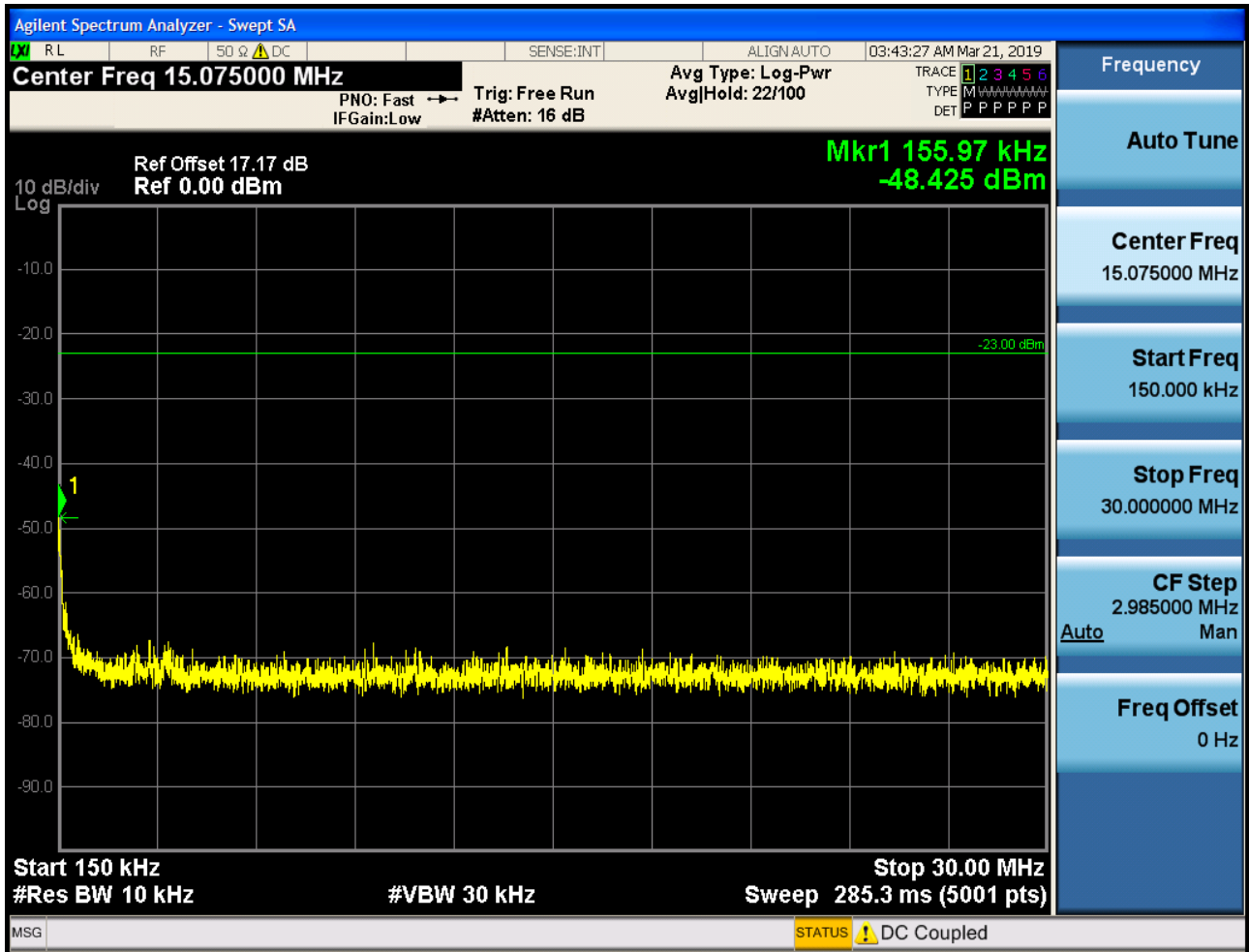


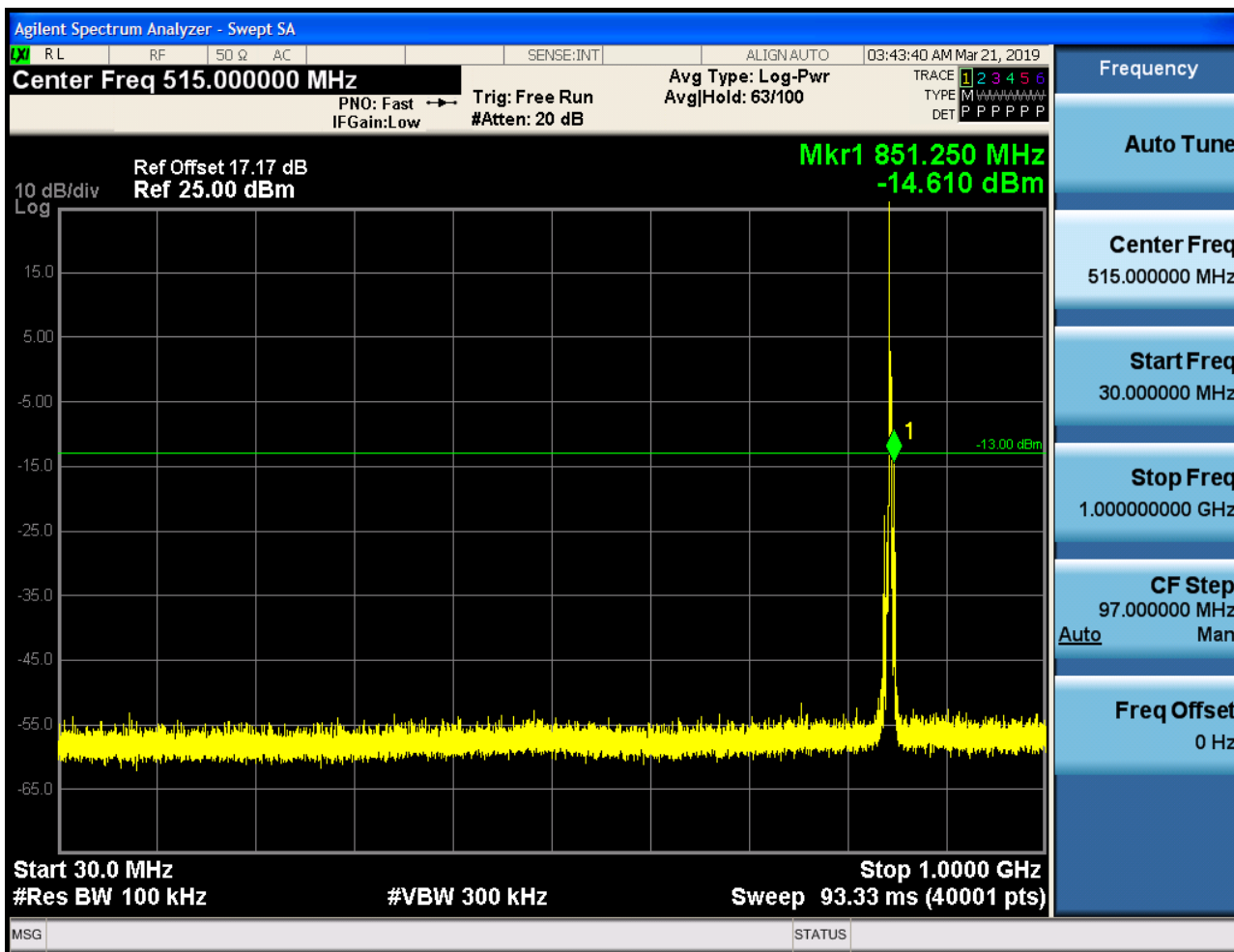


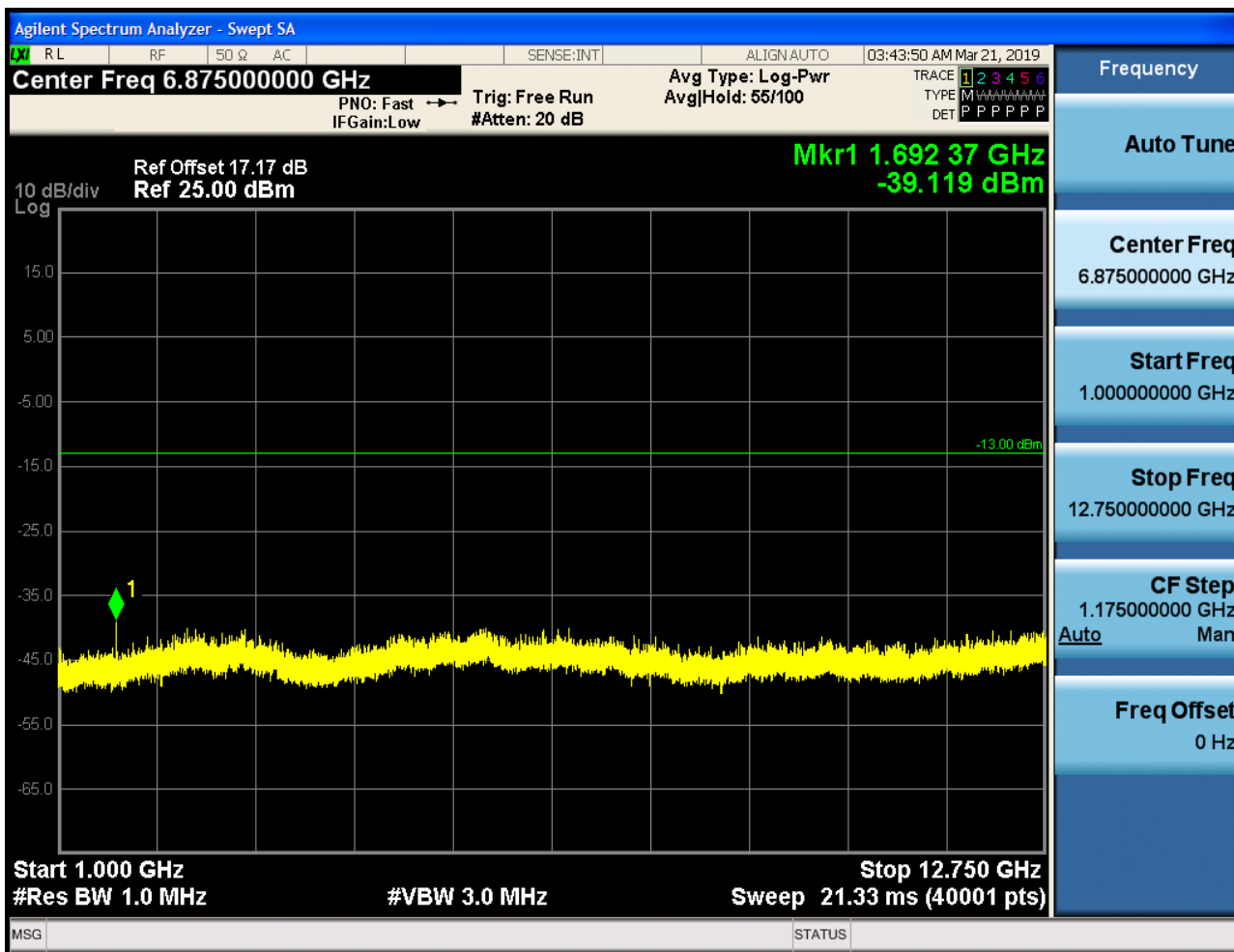
6.2.1.1.2.3 Test Channel = HCH

6.2.1.1.2.3.1 Test RB = RB1#0





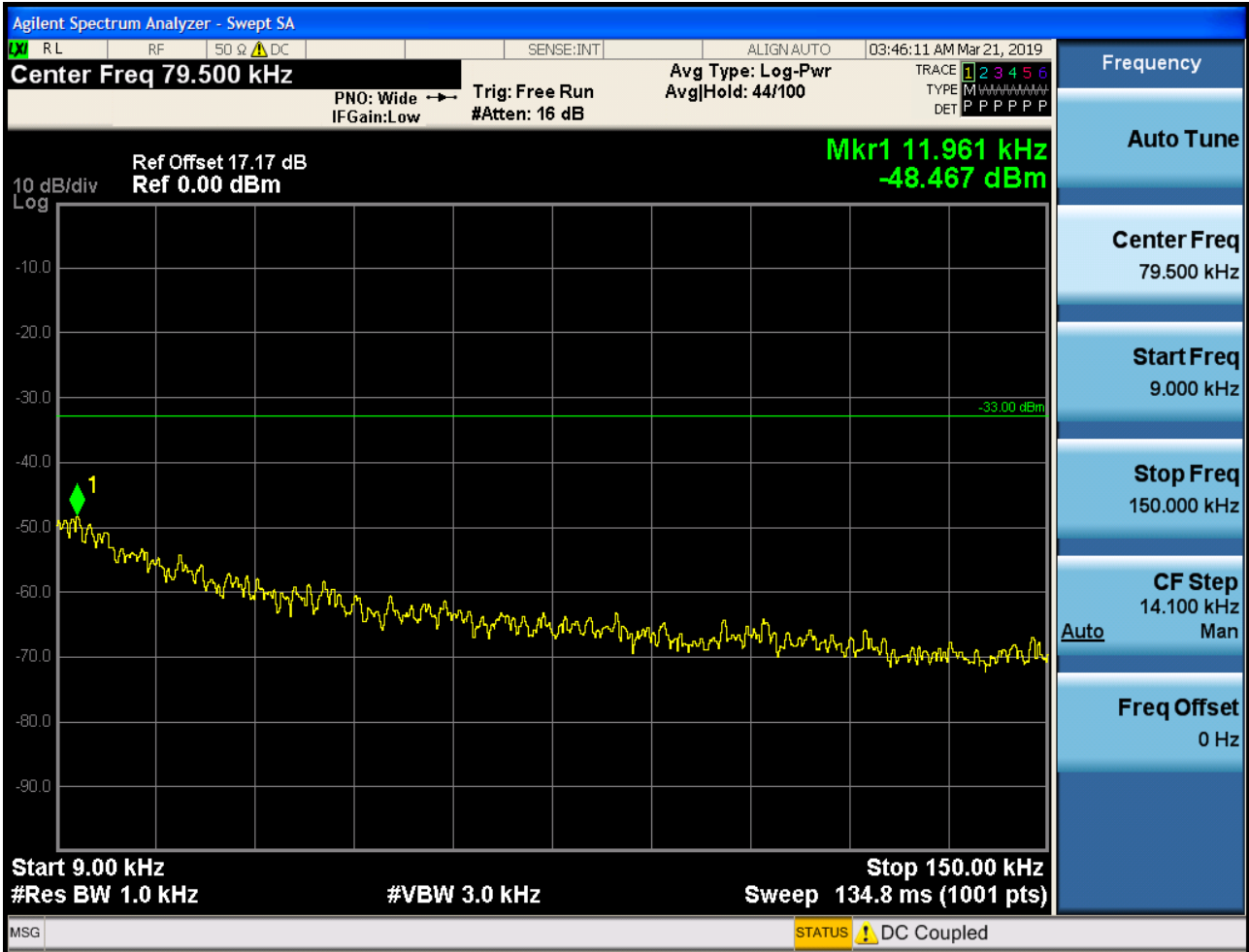


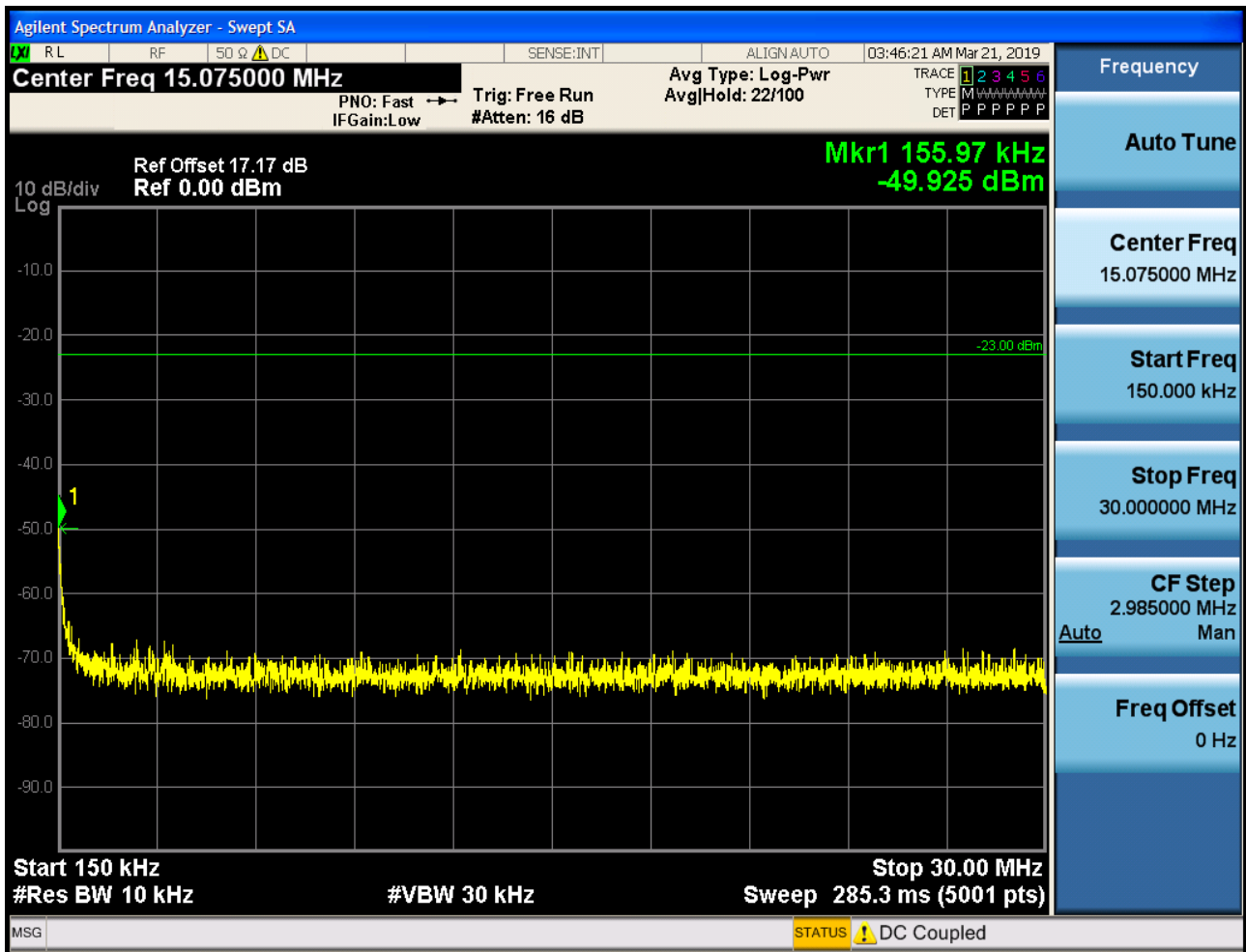


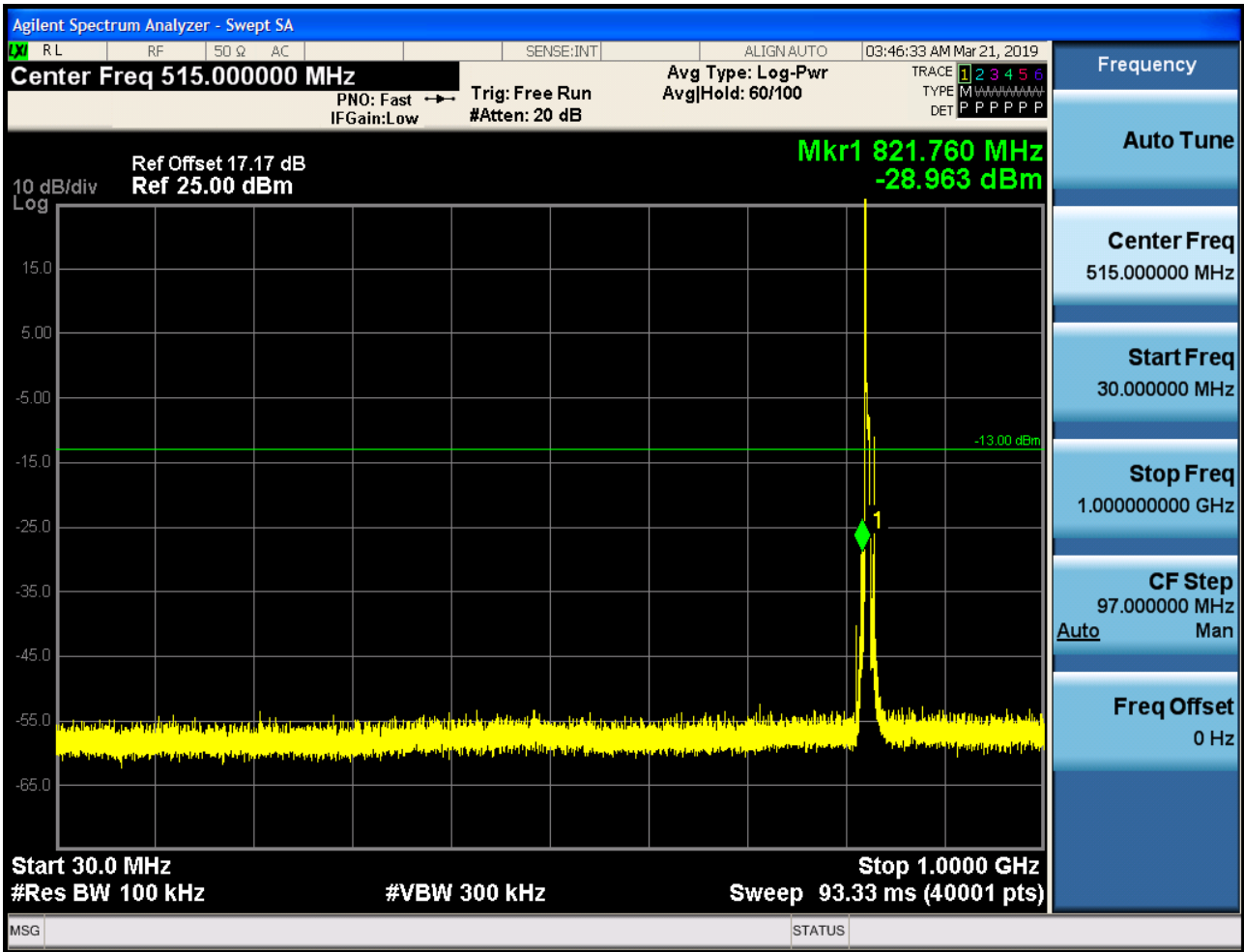
6.2.1.1.3 Test Bandwidth = 5

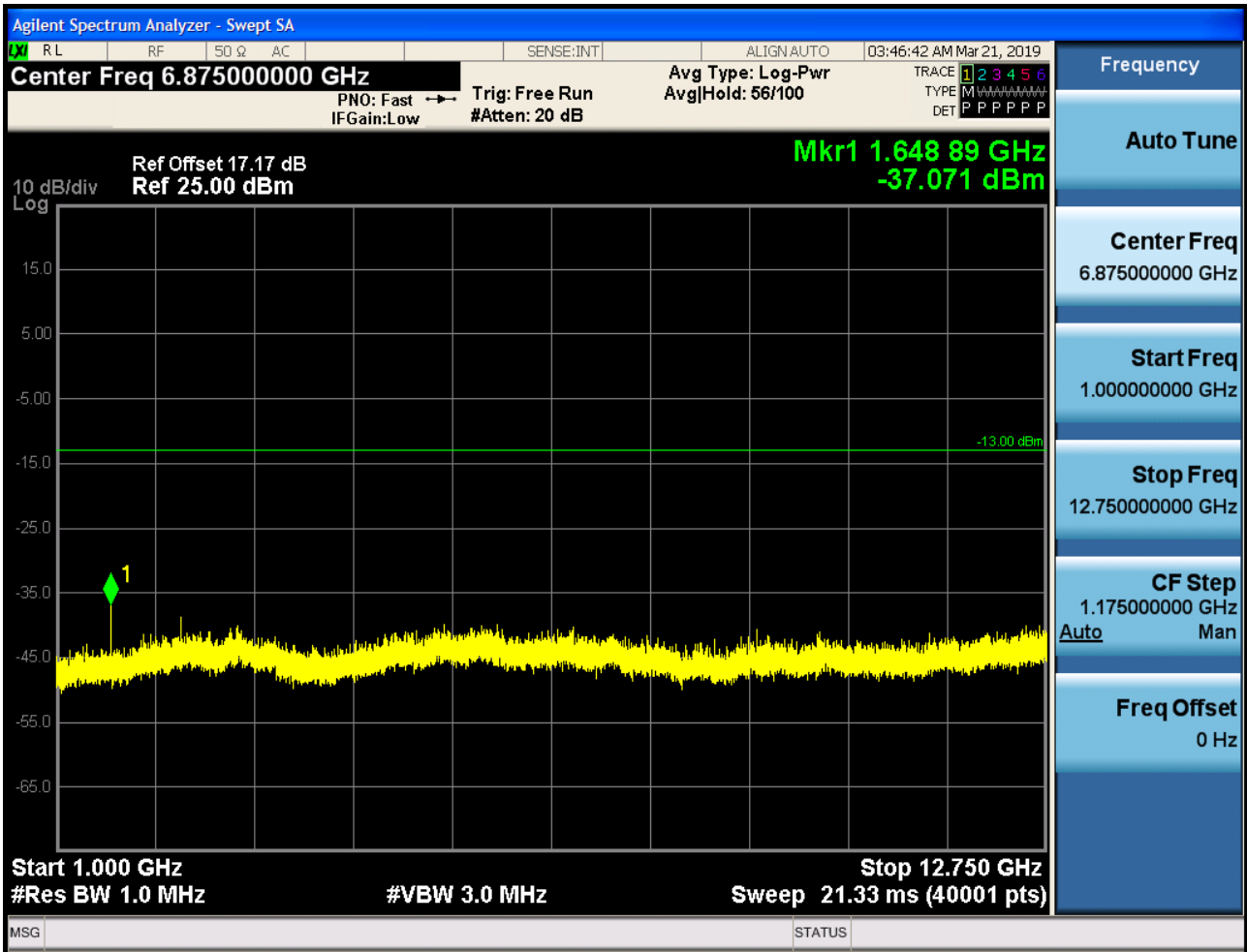
6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0



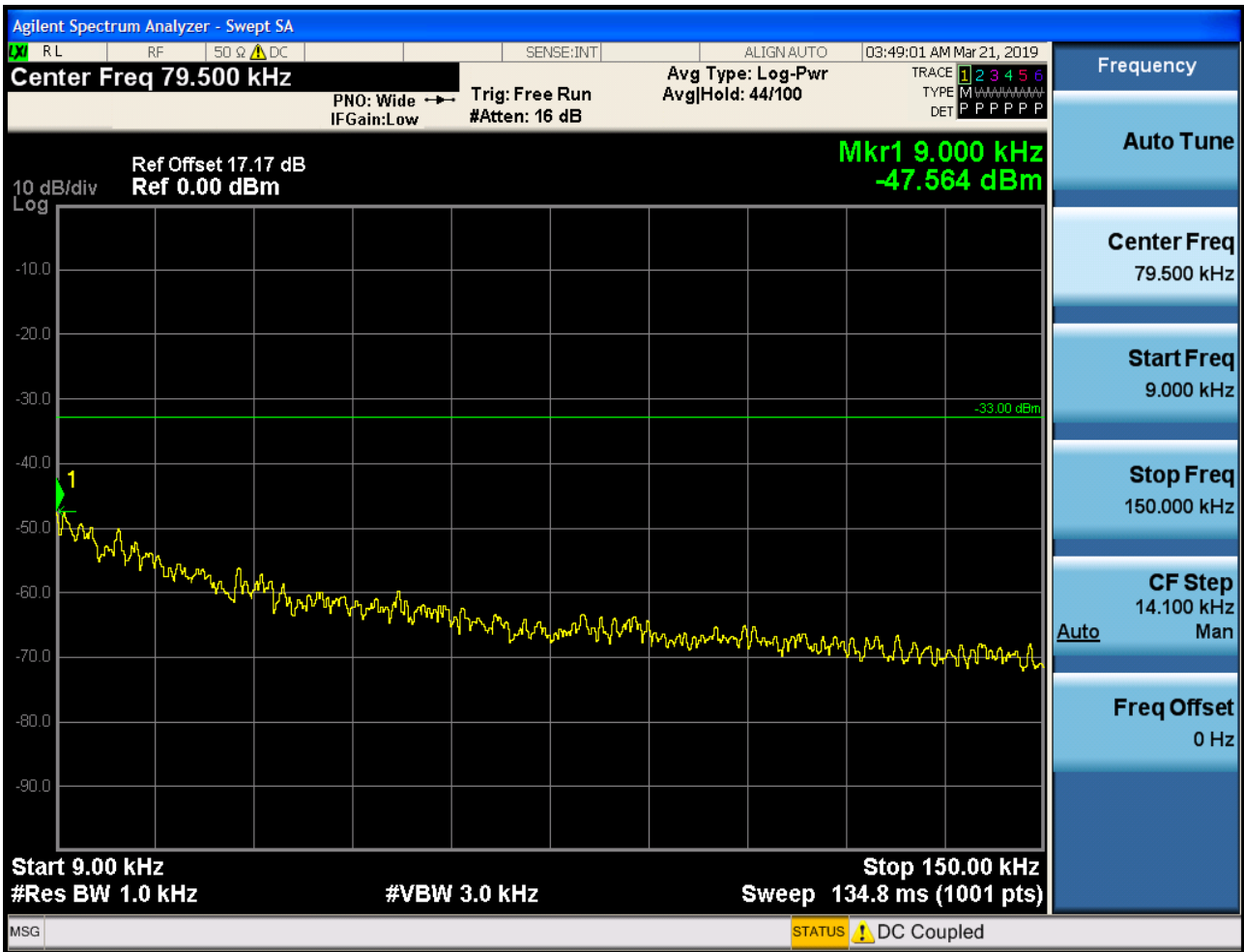


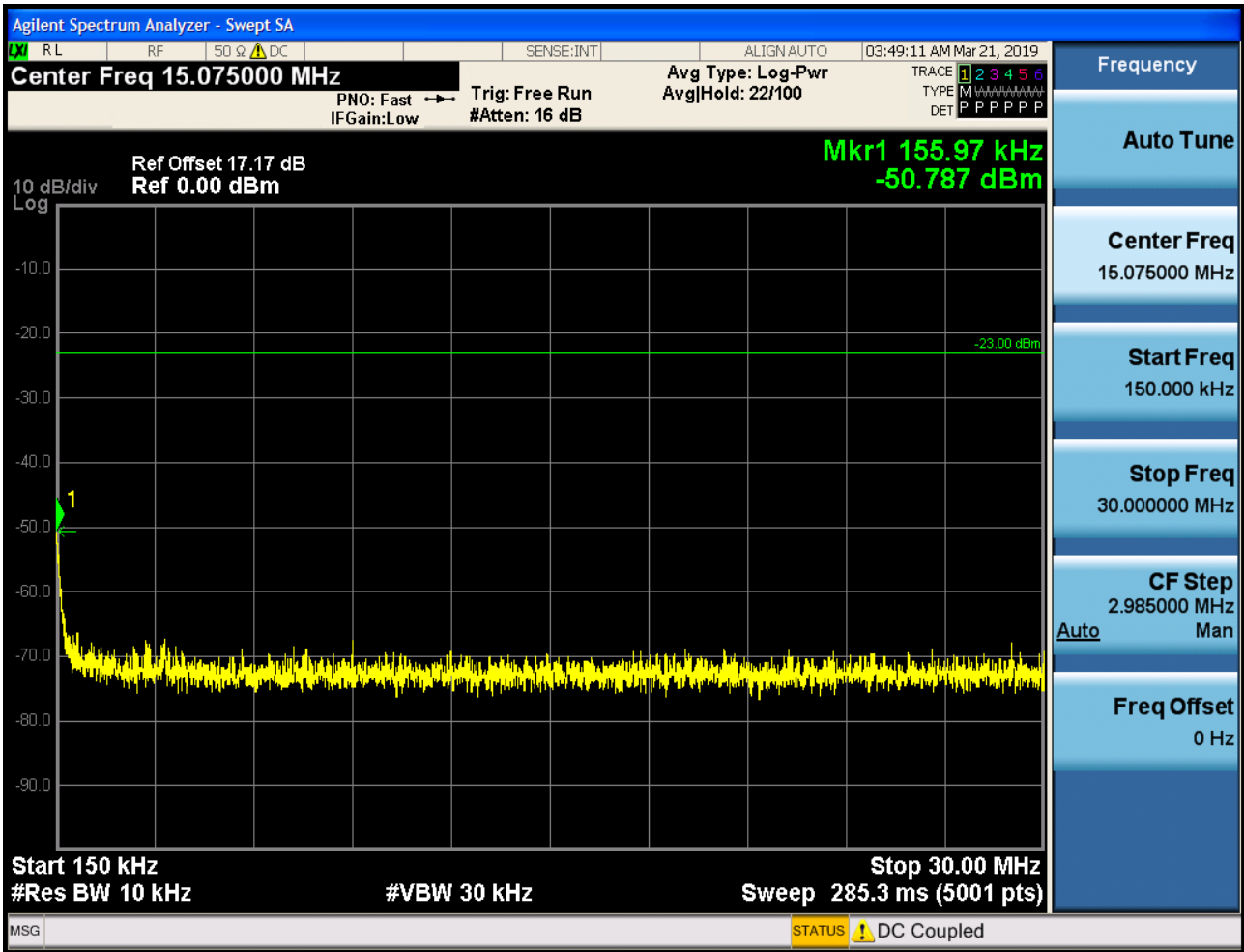


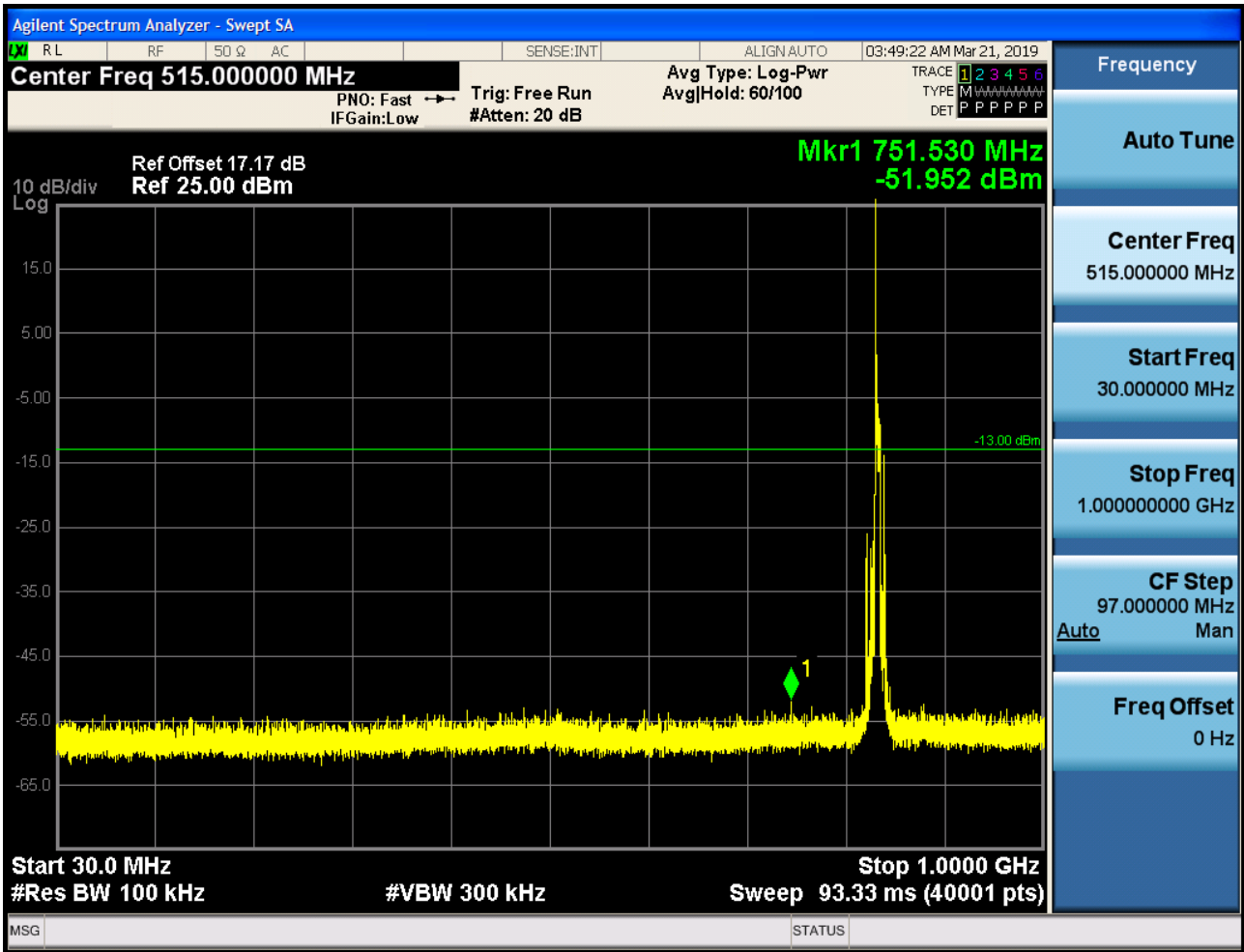


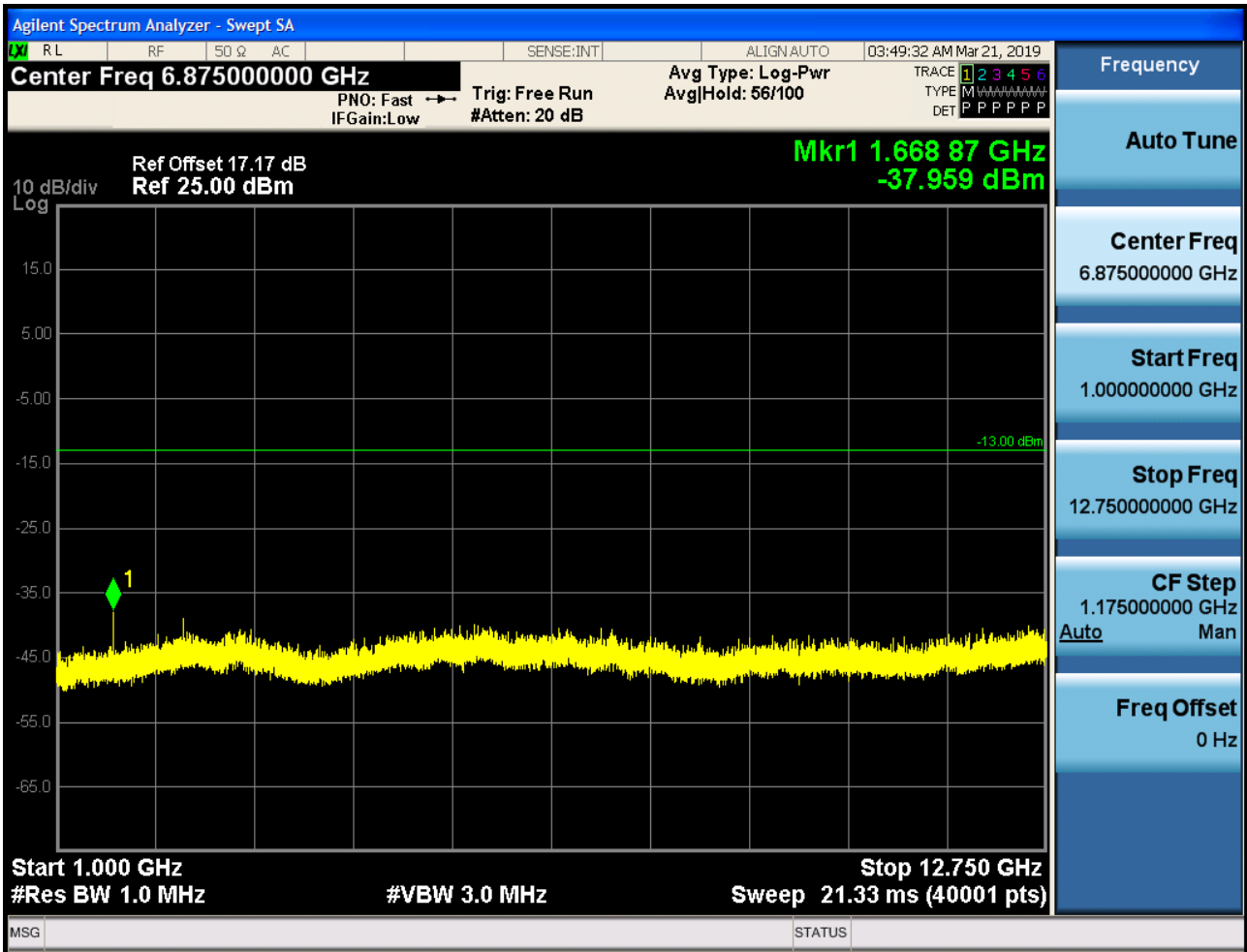
6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0



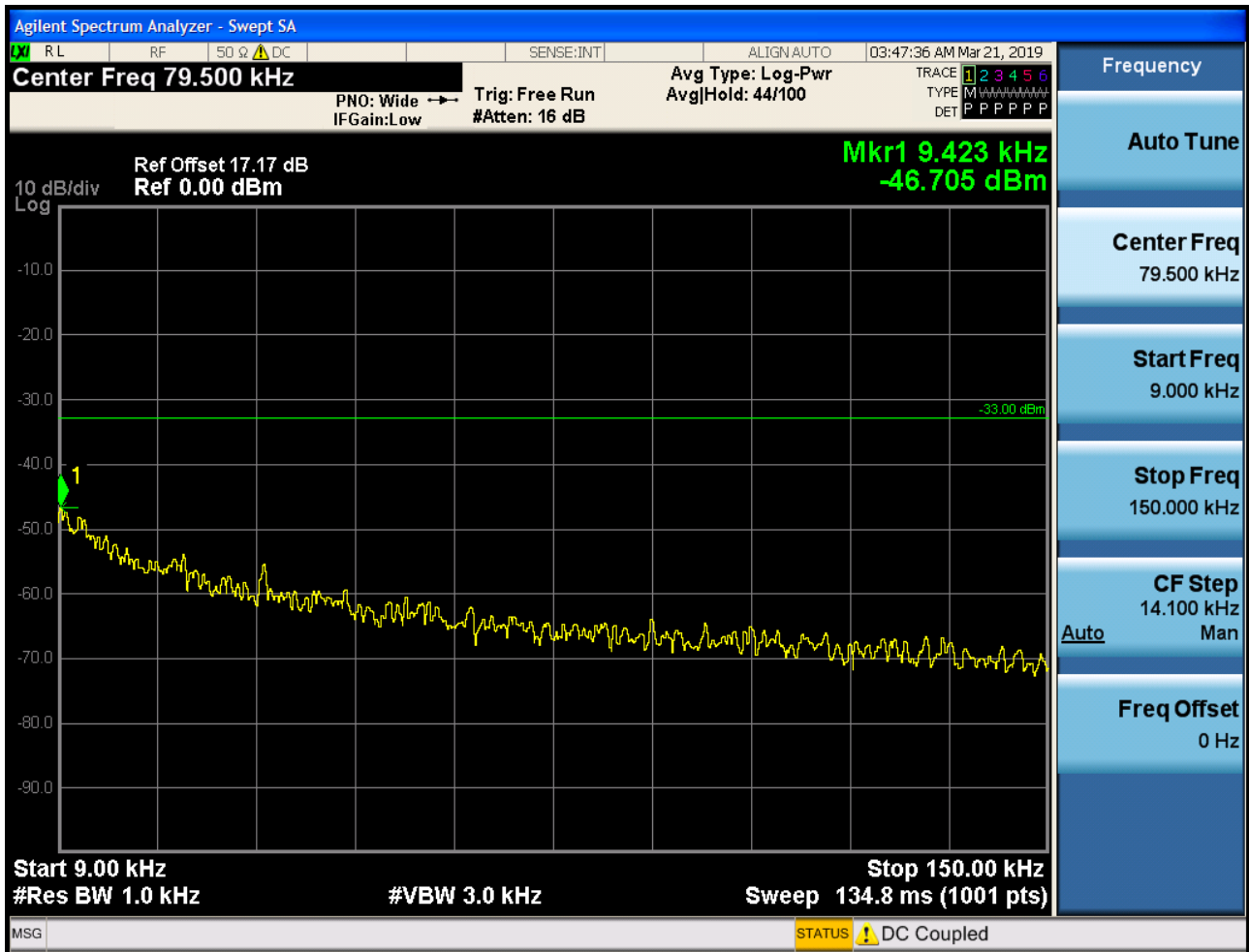


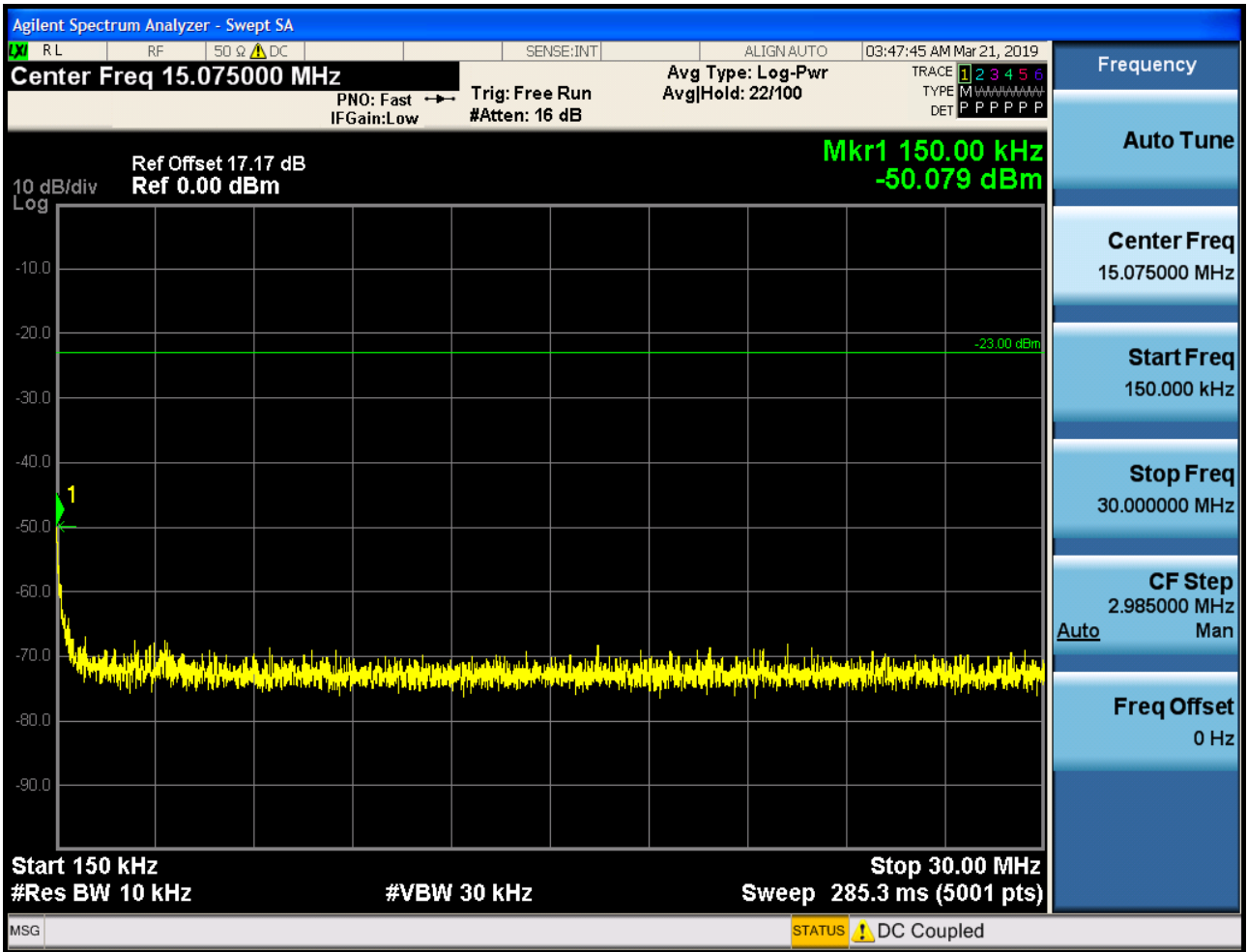


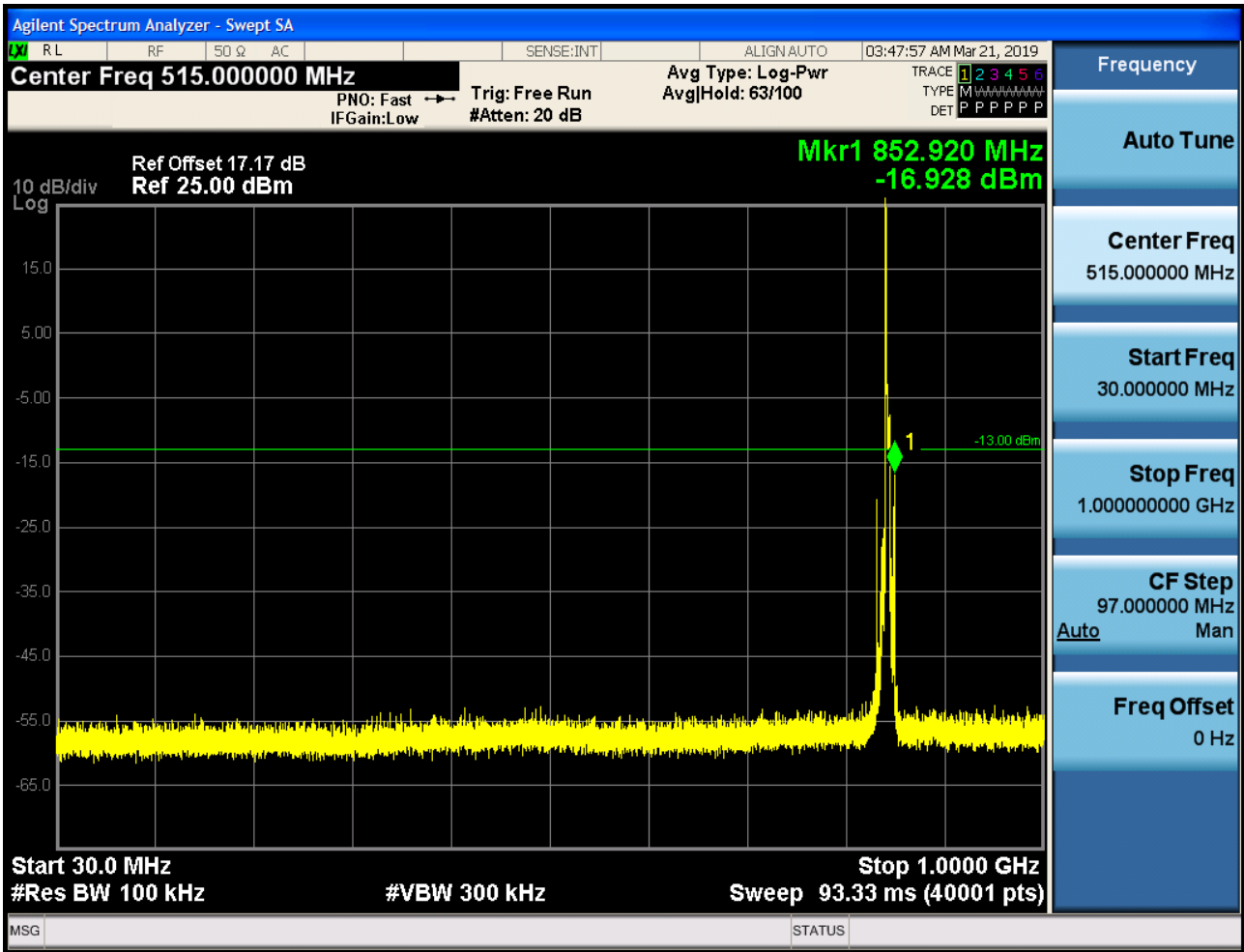


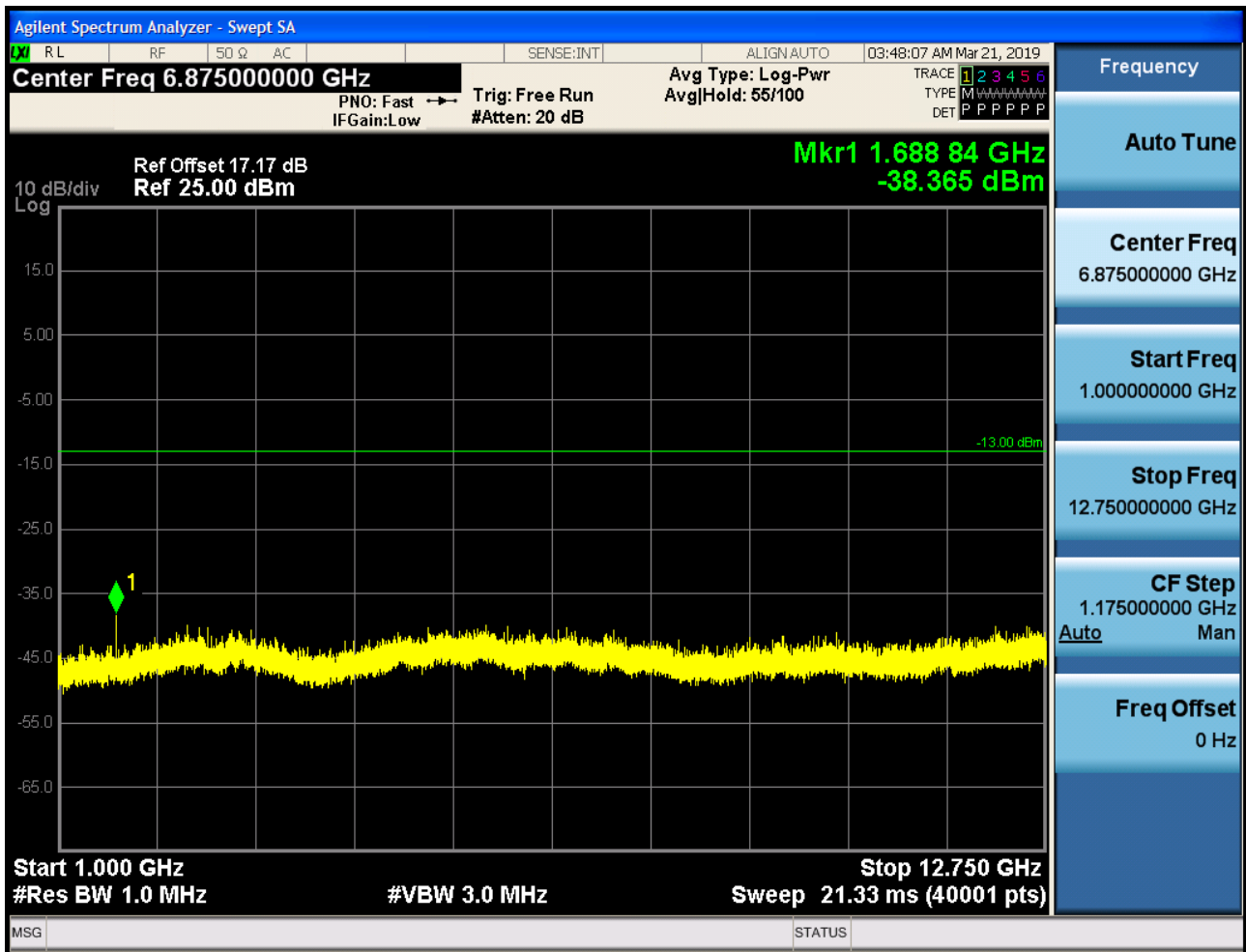
6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0





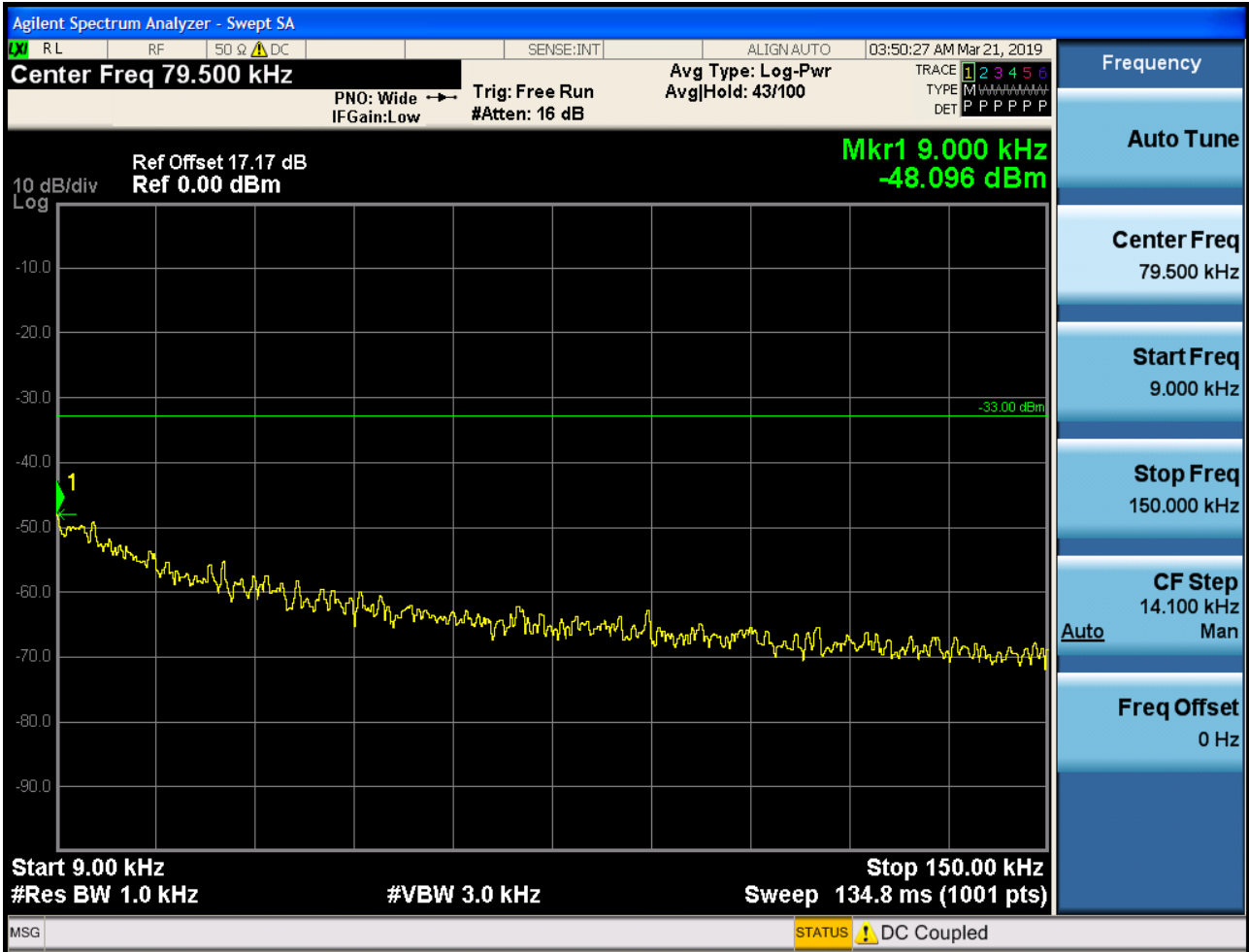


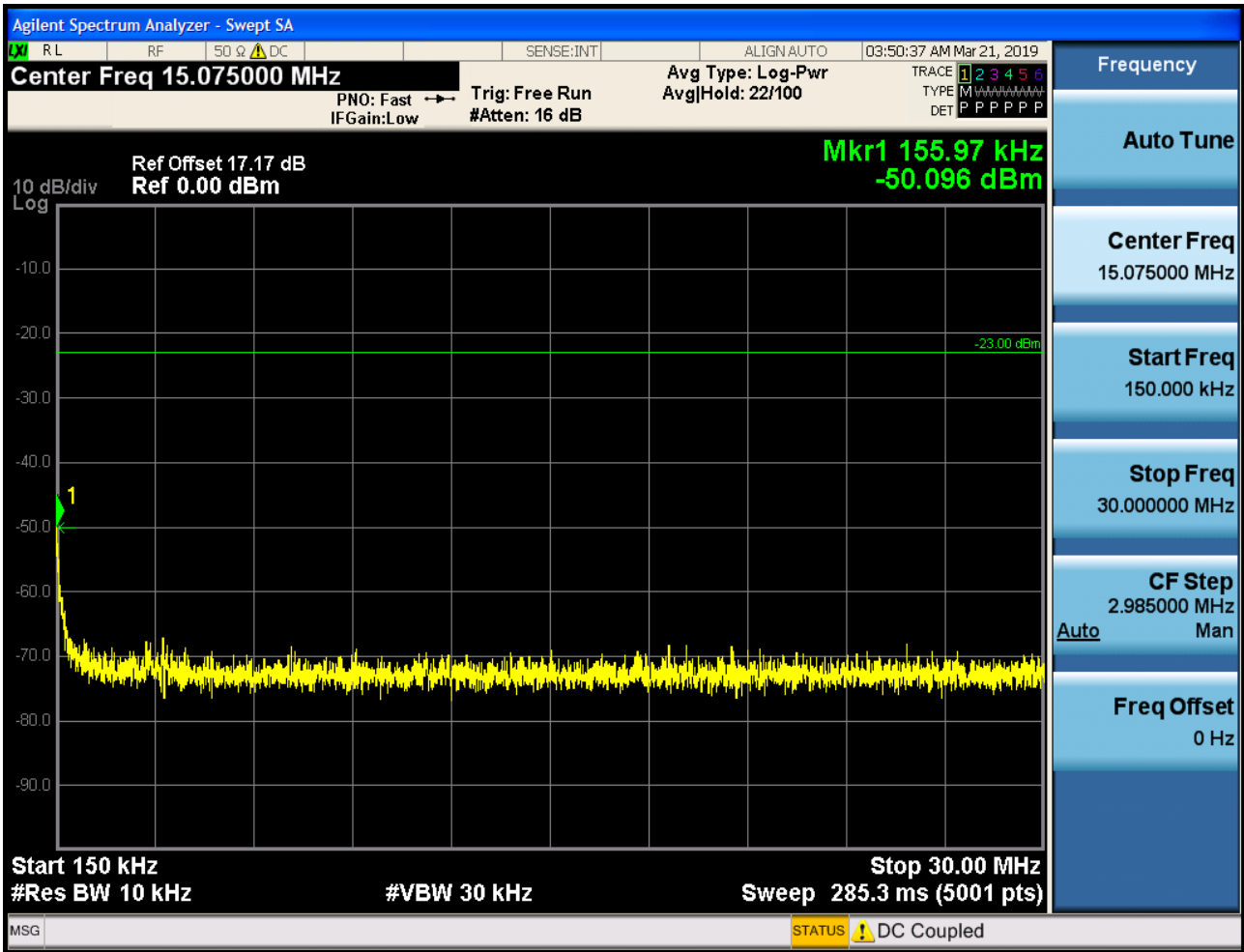


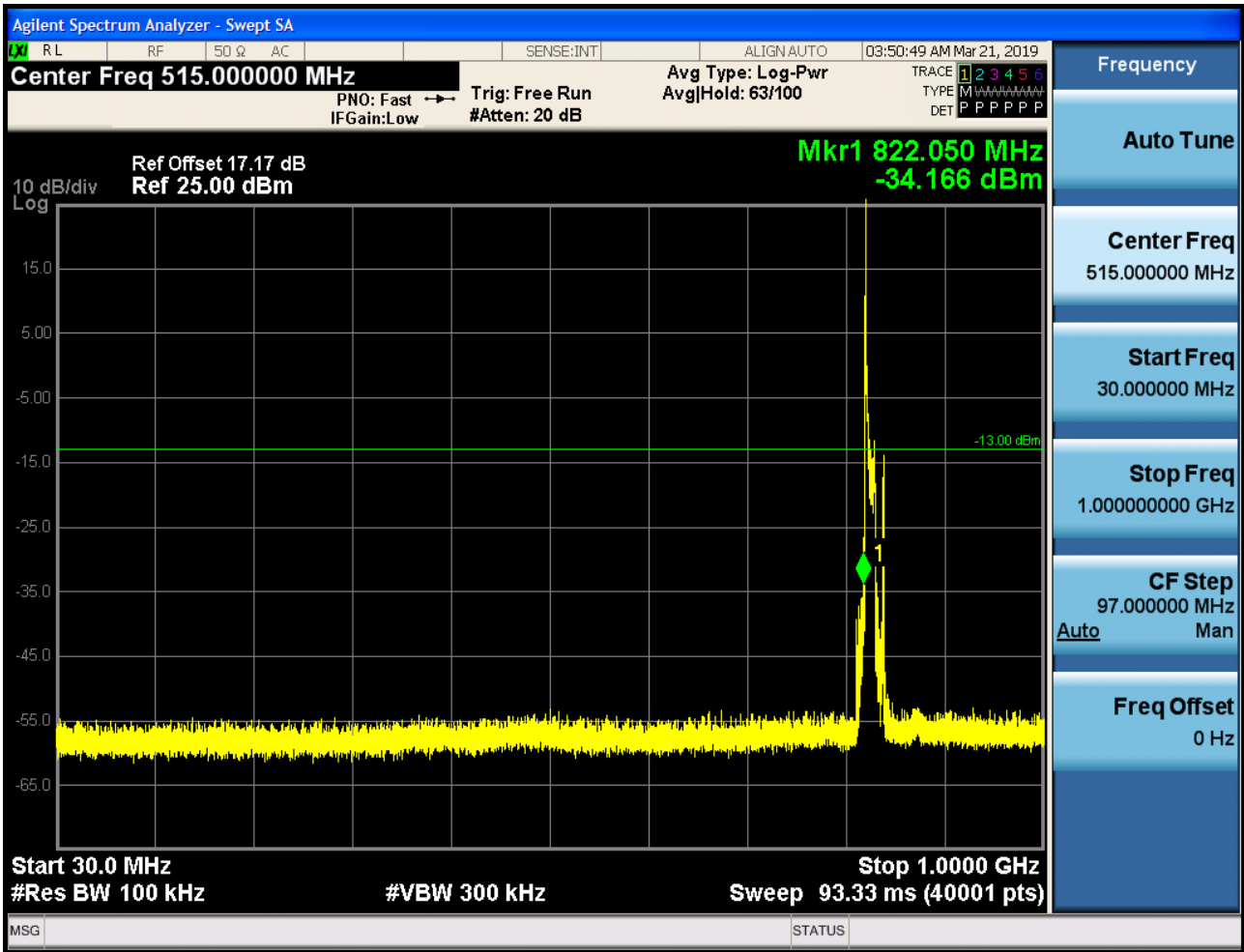
6.2.1.1.4 Test Bandwidth = 10

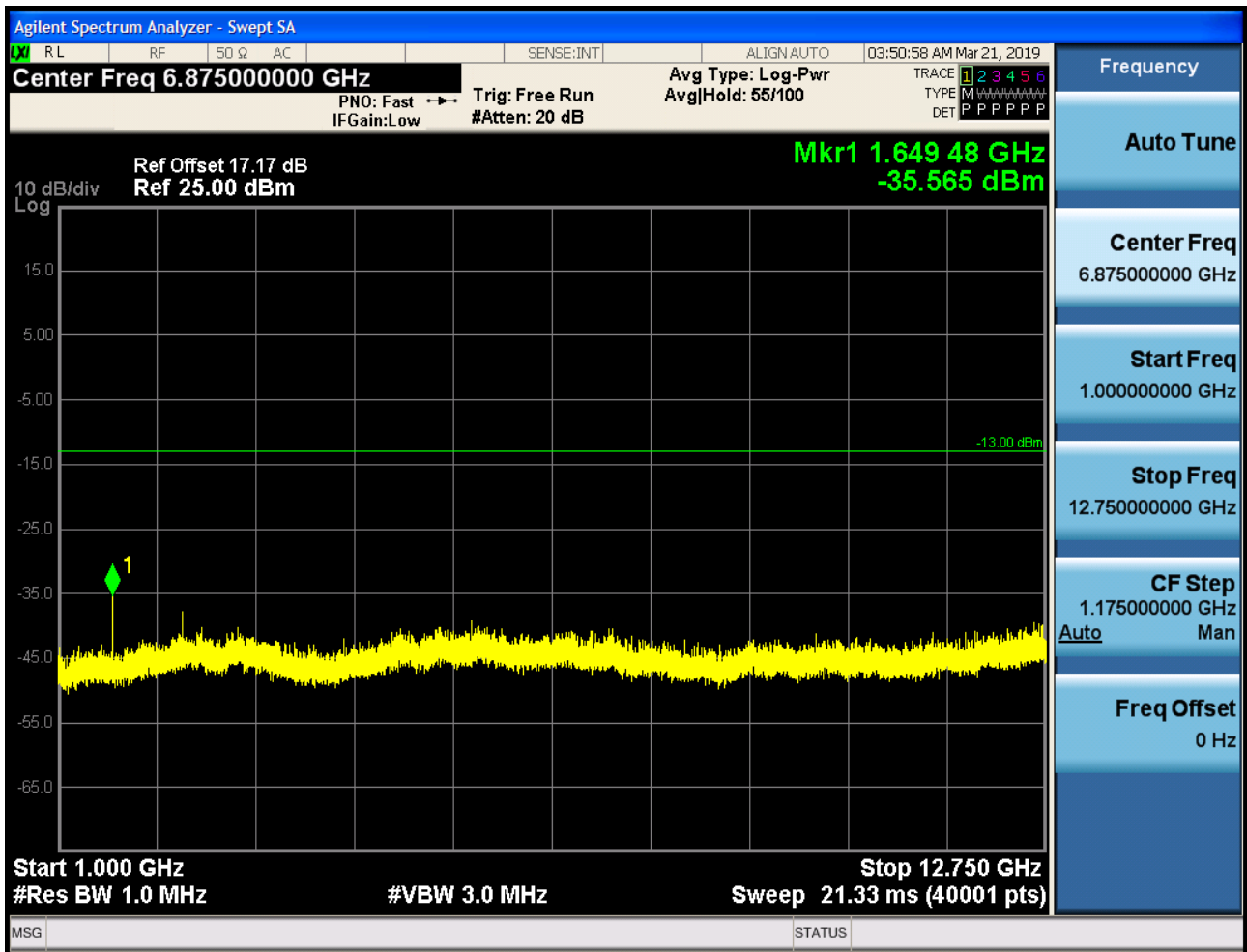
6.2.1.1.4.1 Test Channel = LCH

6.2.1.1.4.1.1 Test RB = RB1#0



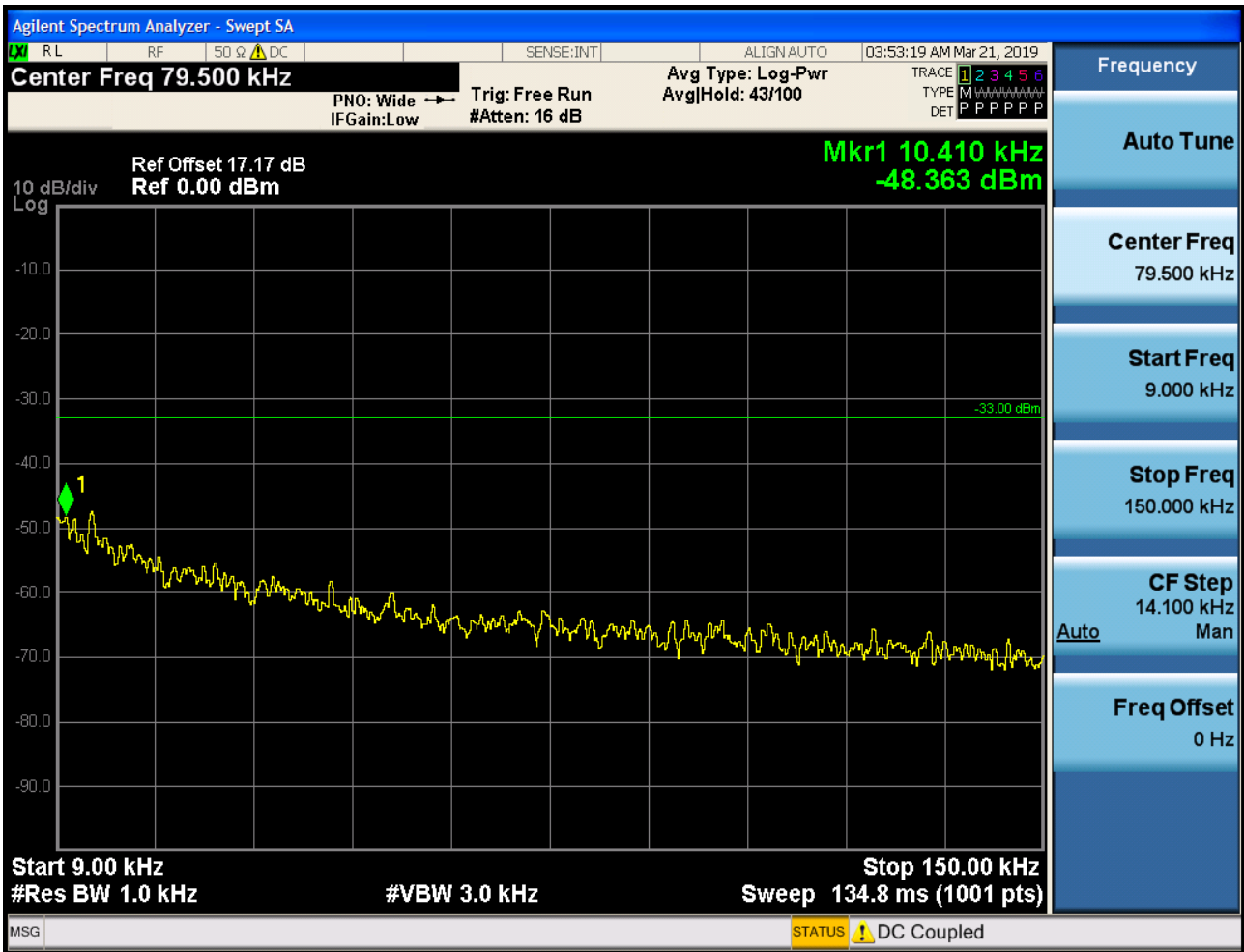


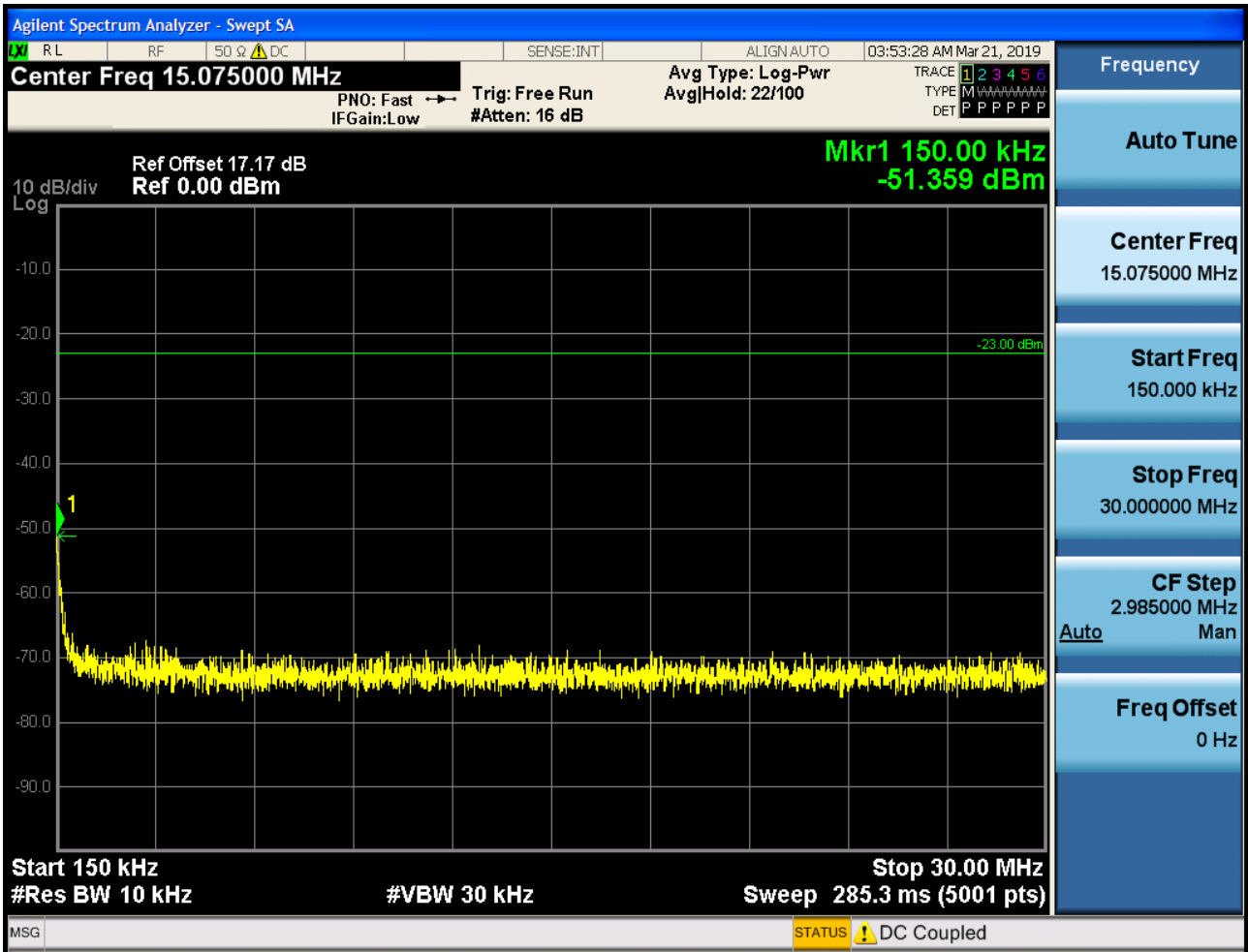


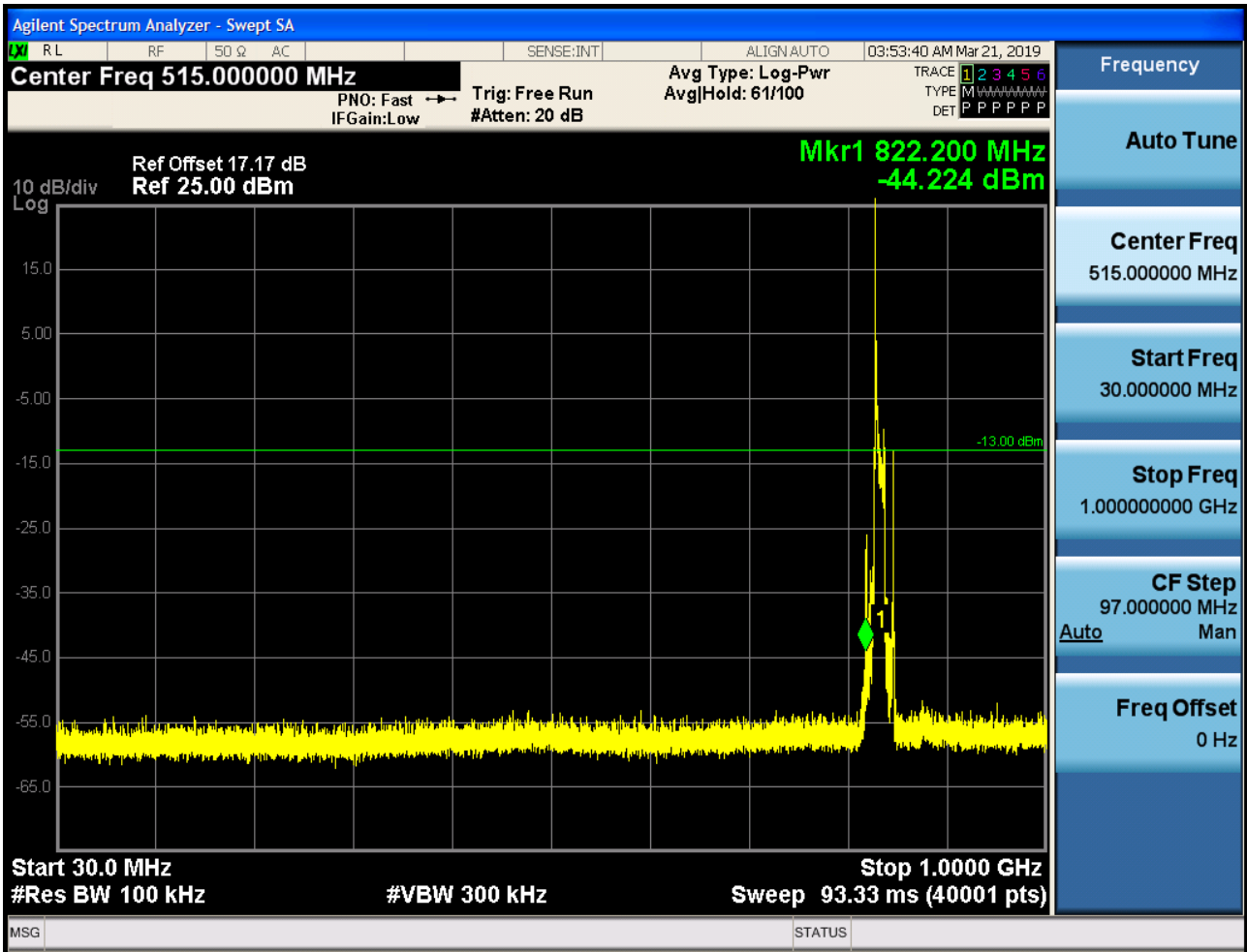


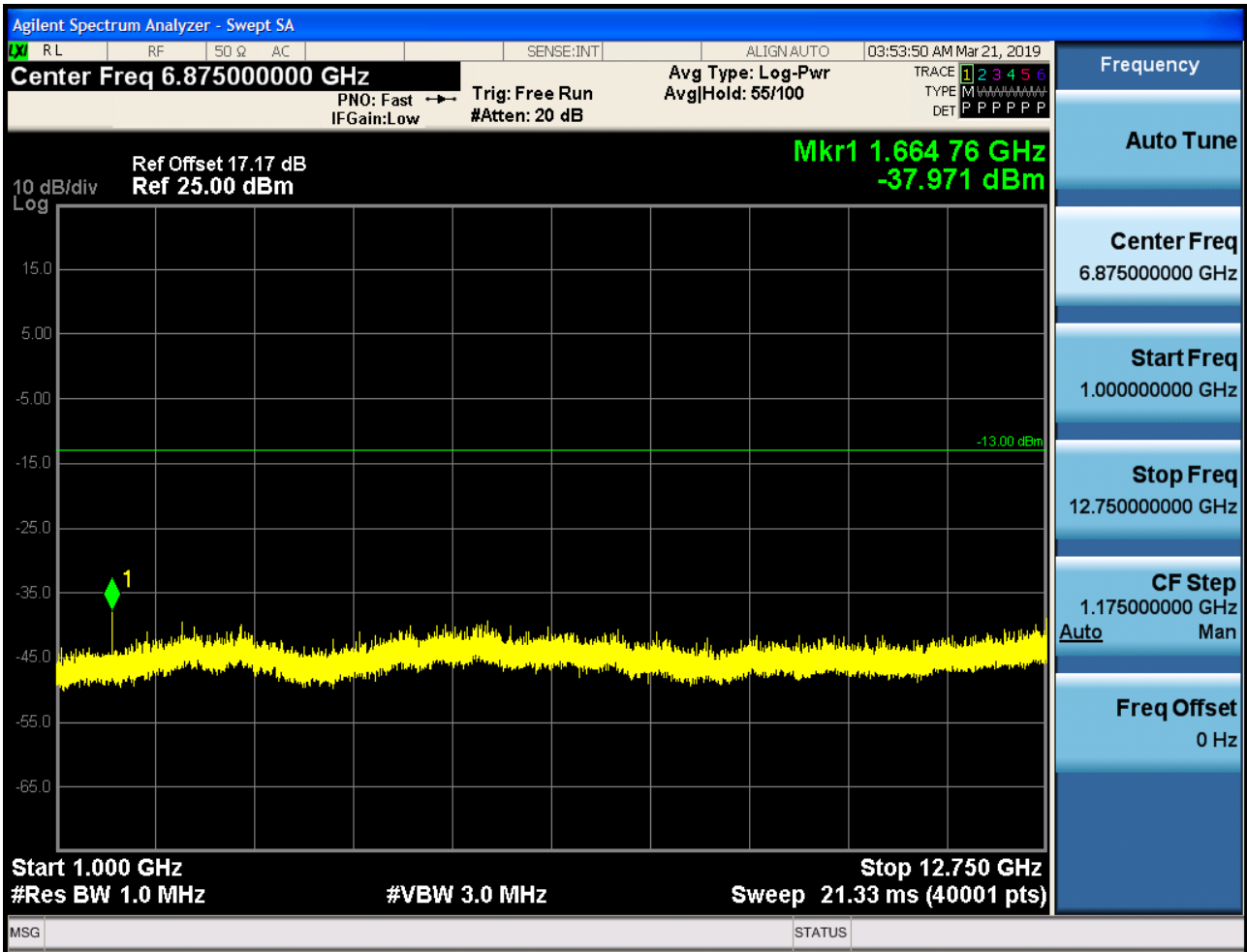
6.2.1.1.4.2 Test Channel = MCH

6.2.1.1.4.2.1 Test RB = RB1#0



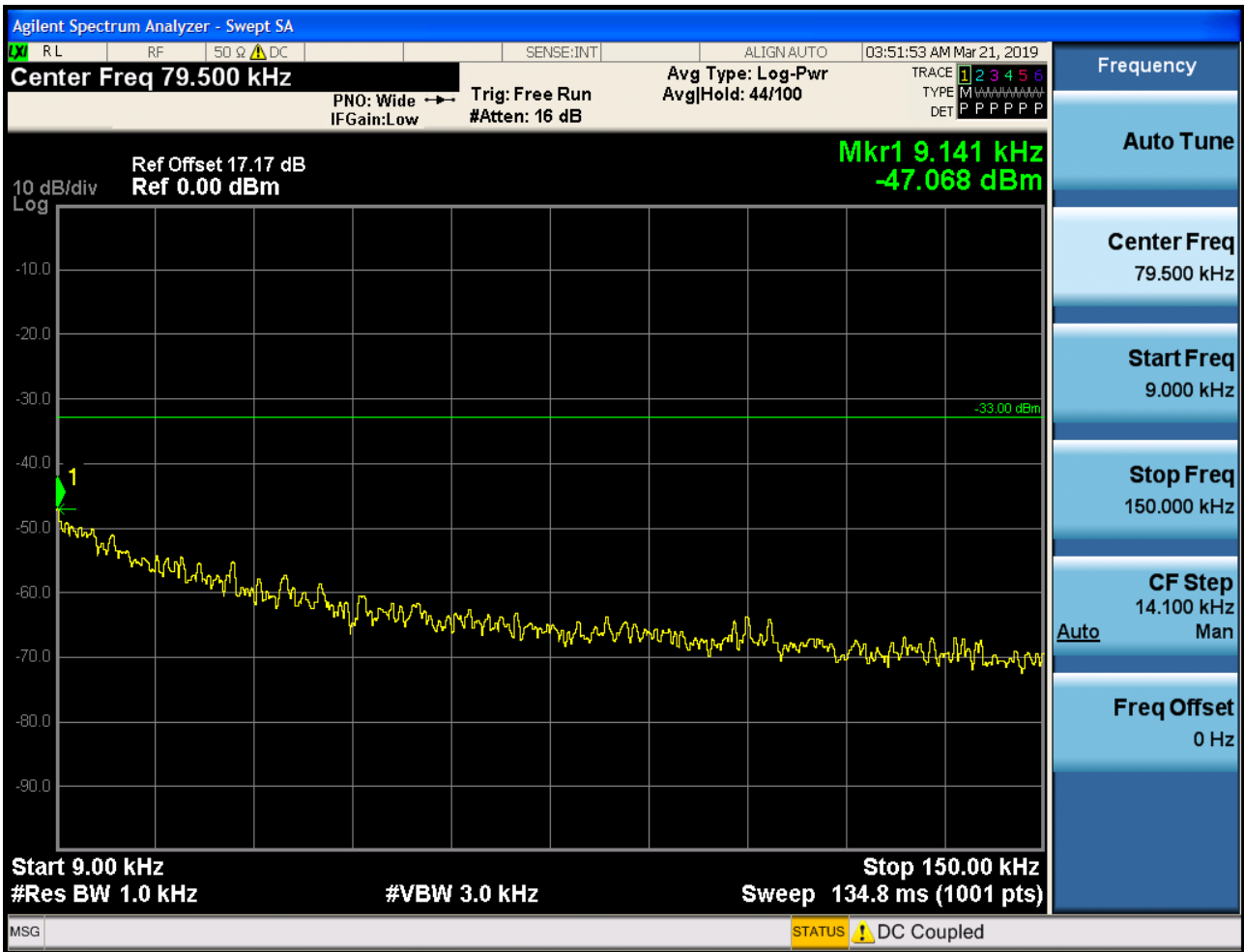


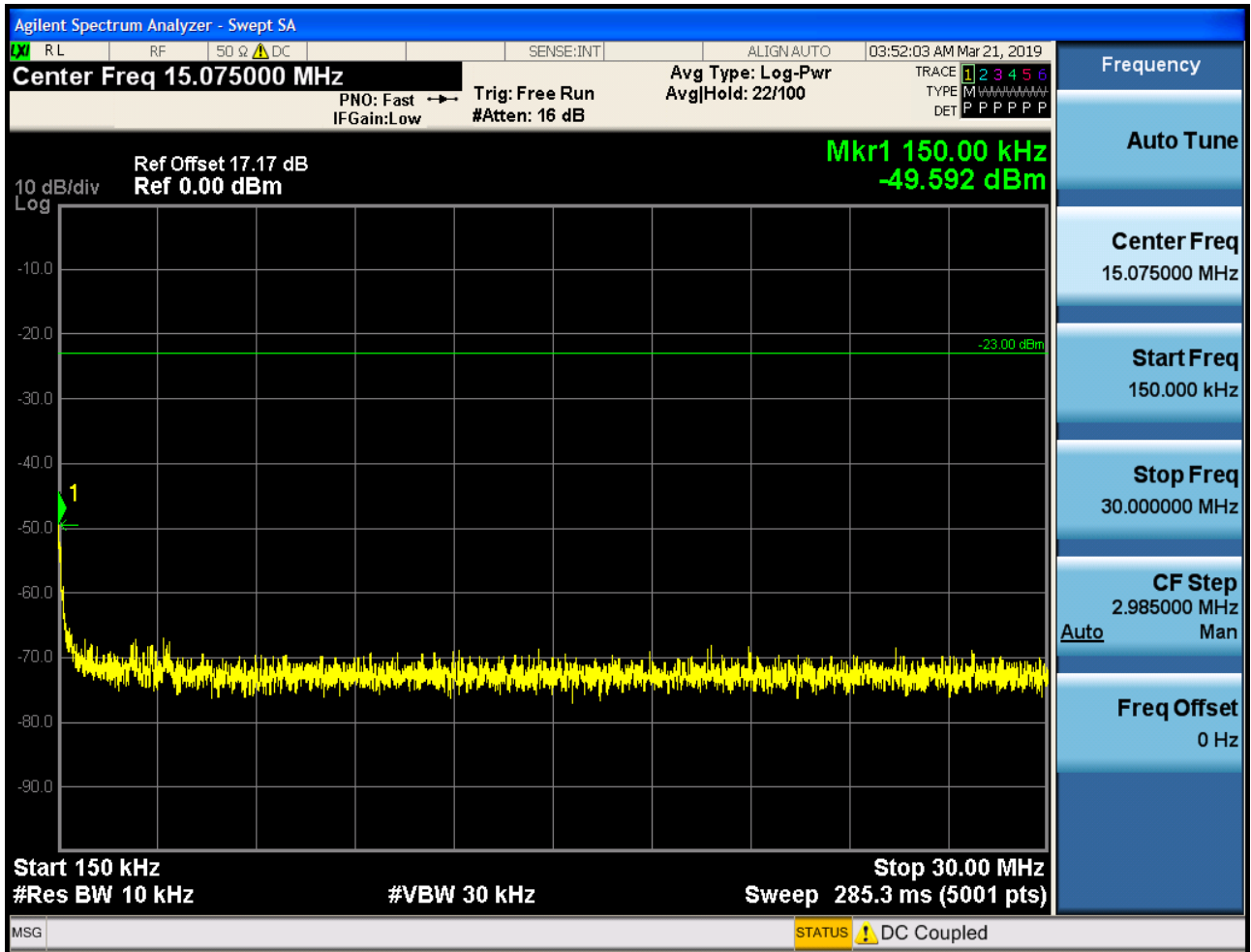


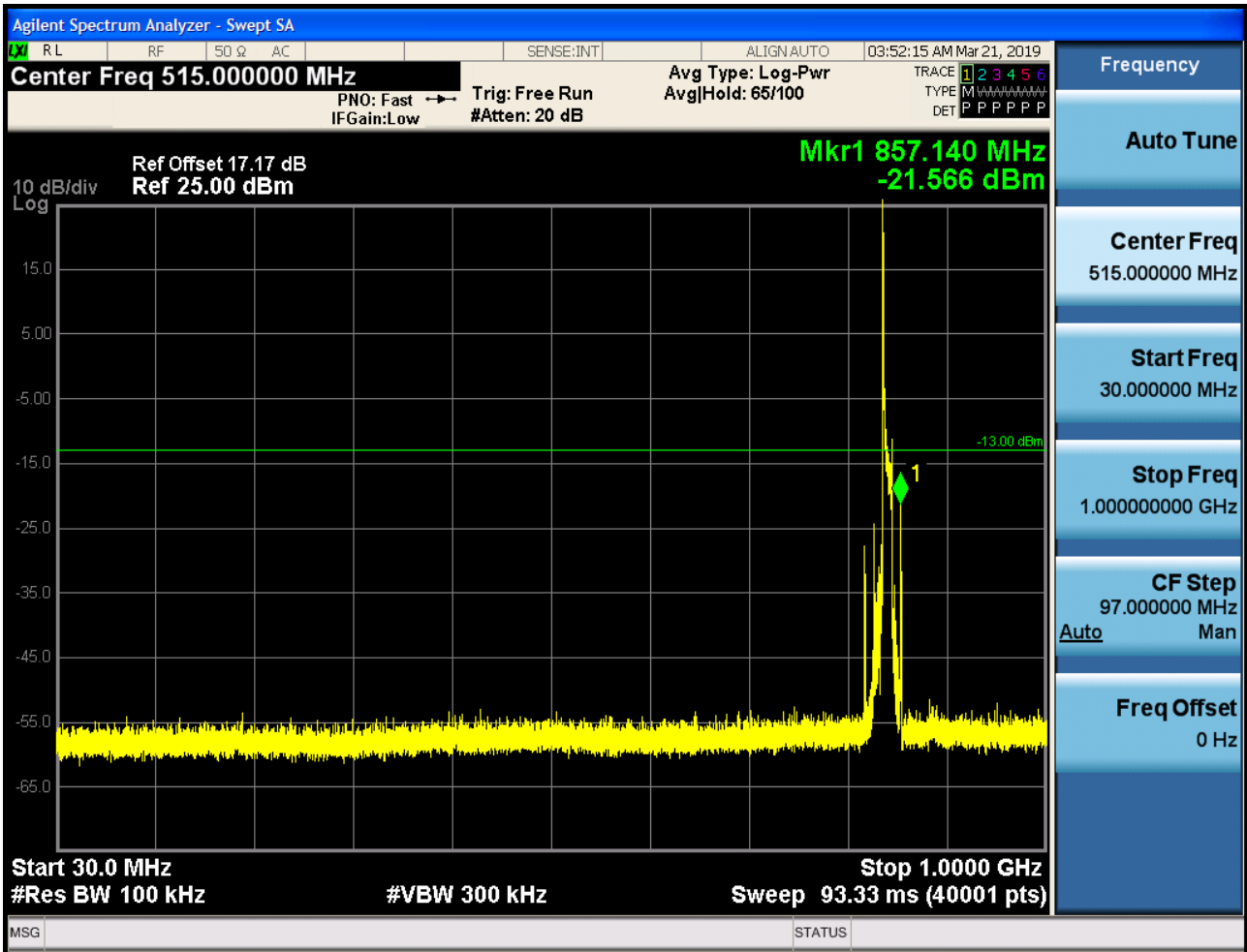


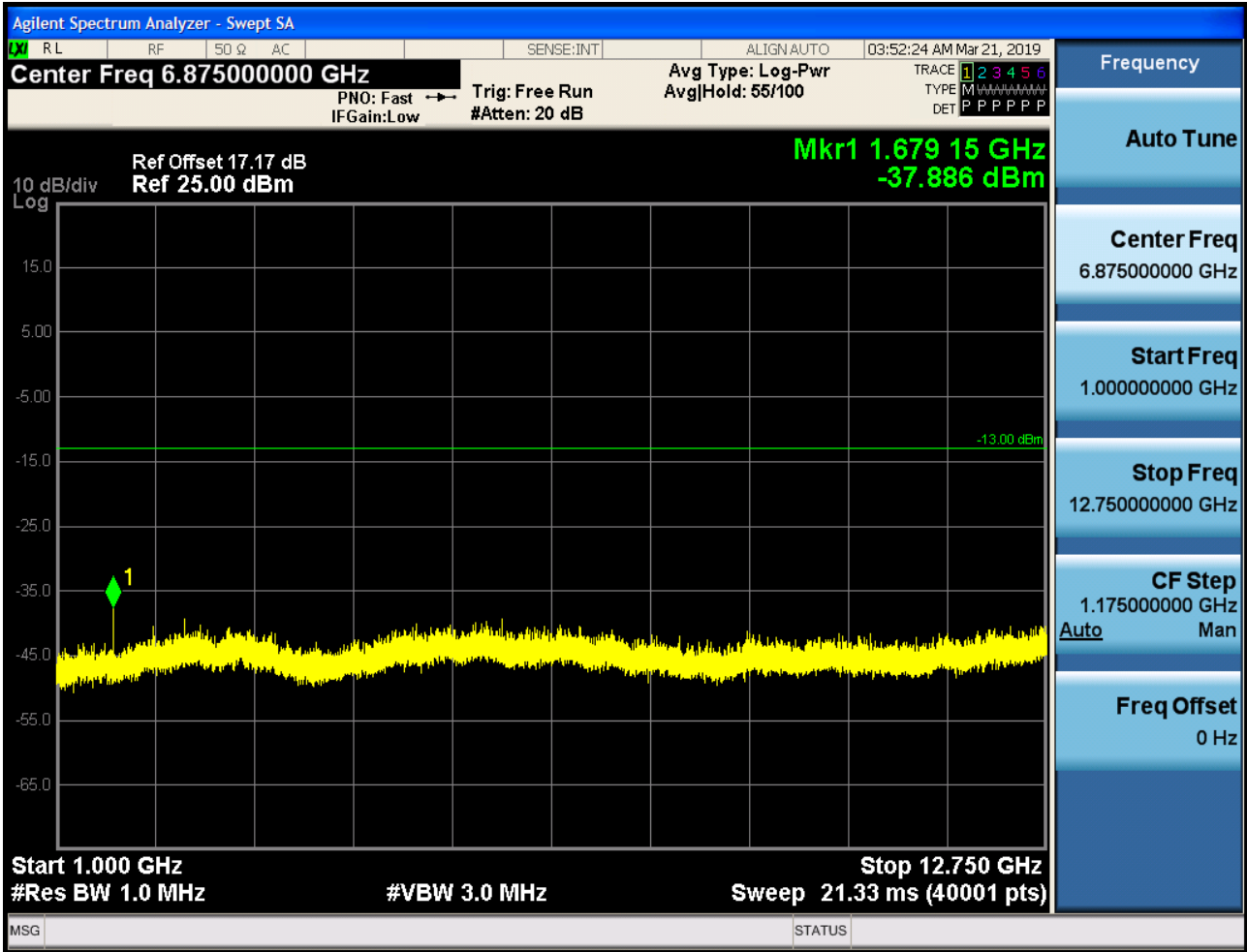
6.2.1.1.4.3 Test Channel = HCH

6.2.1.1.4.3.1 Test RB = RB1#0







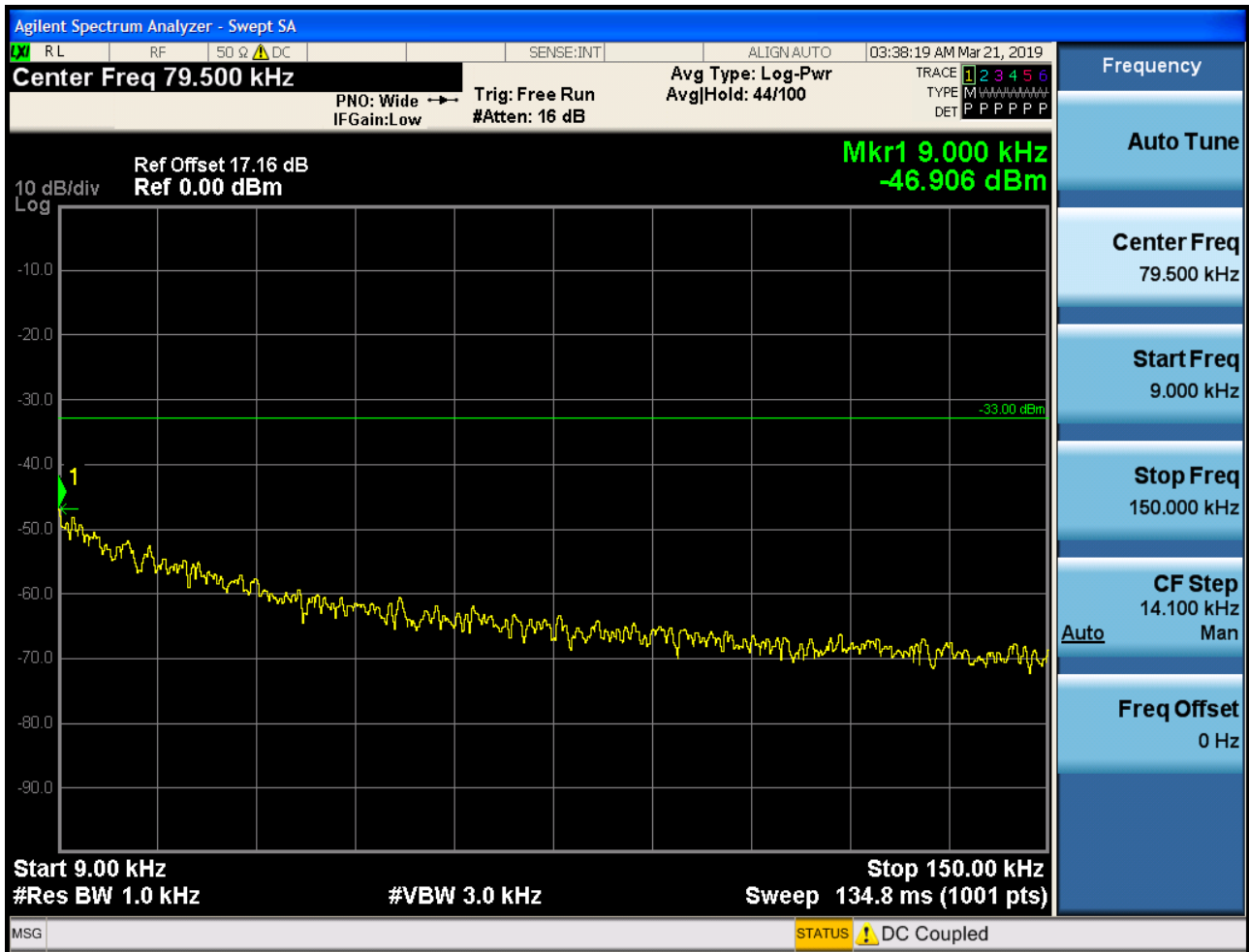


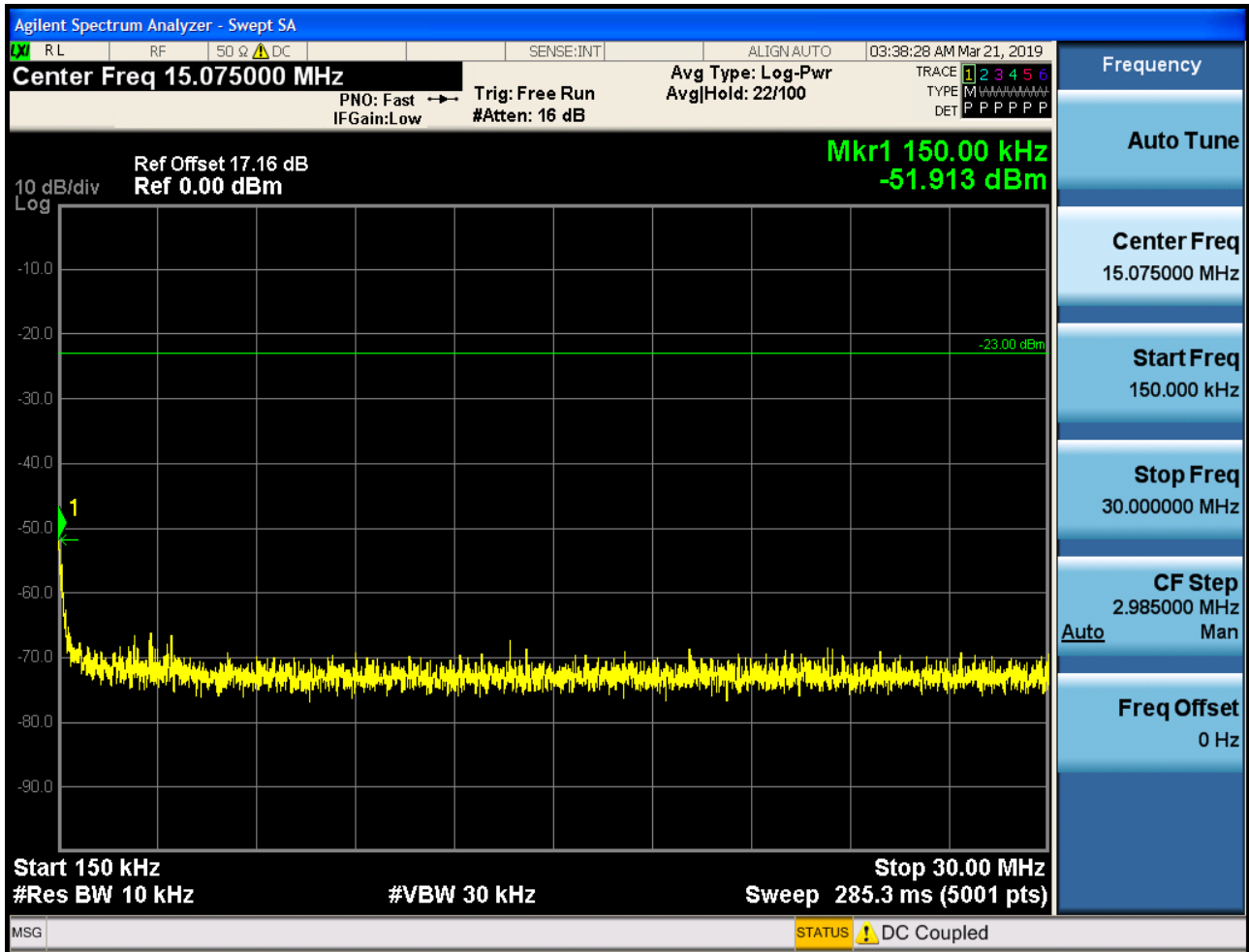
6.2.1.2 Test Mode = LTE/TM2

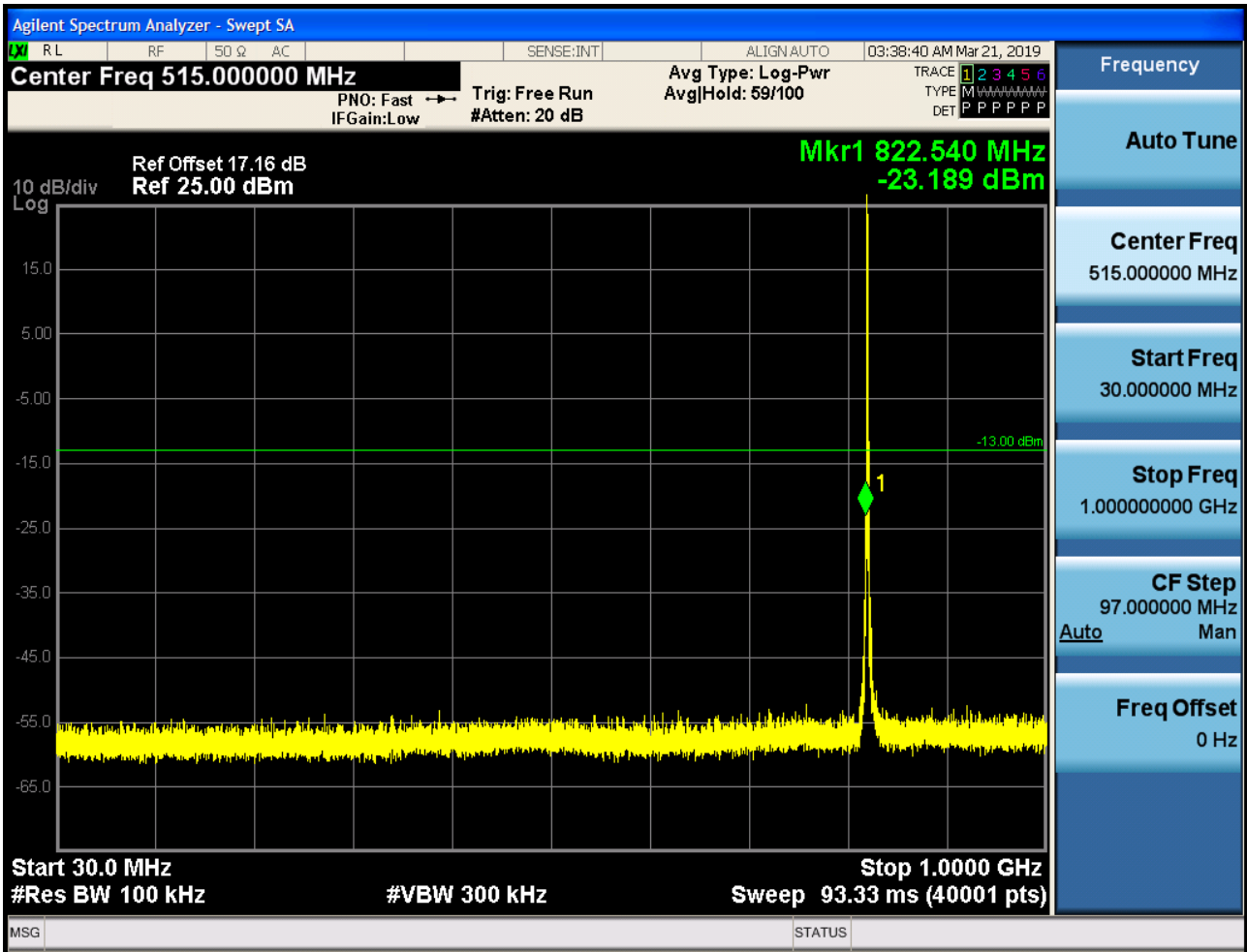
6.2.1.2.1 Test Bandwidth = 1.4

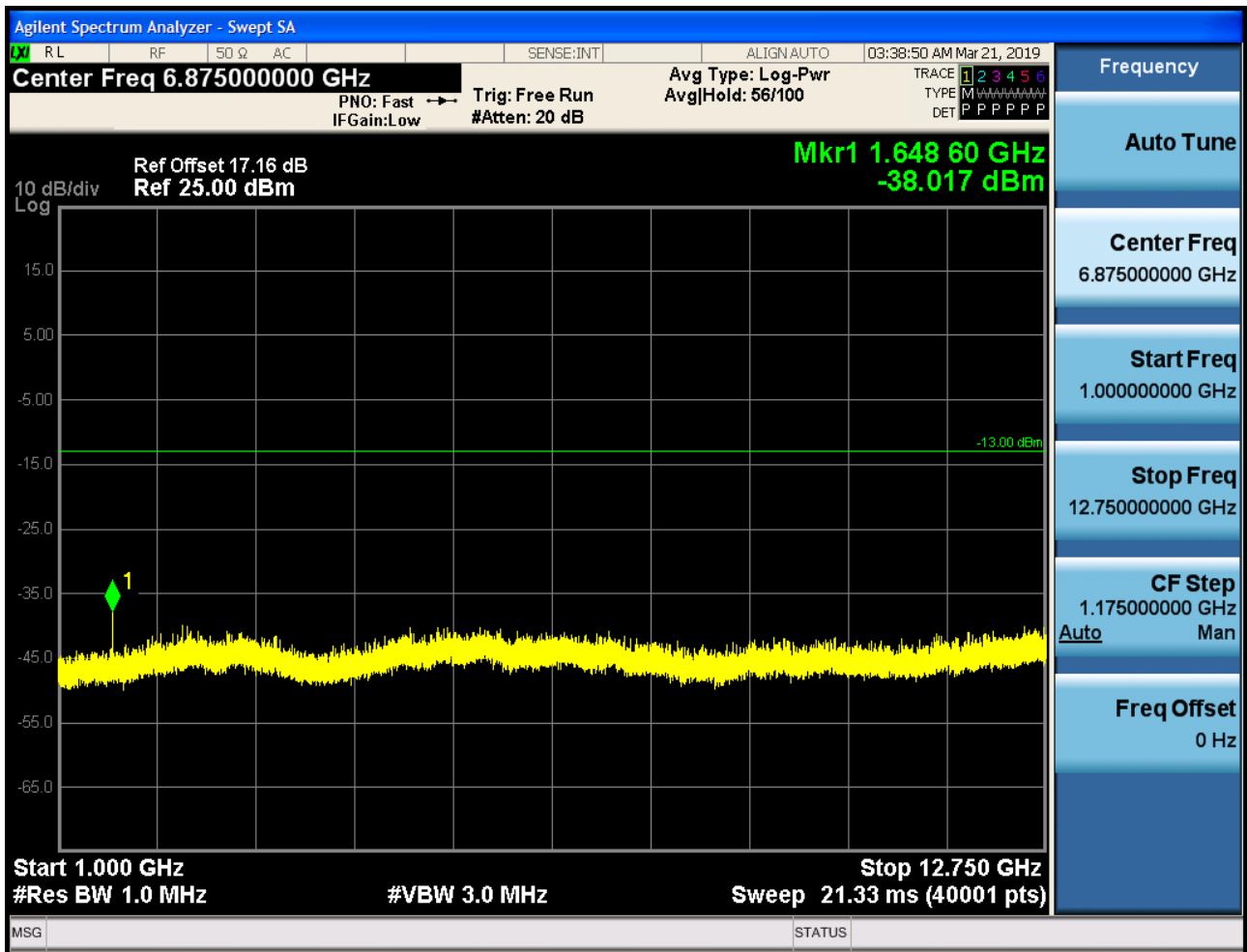
6.2.1.2.1.1 Test Channel = LCH

6.2.1.2.1.1.1 Test RB = RB1#0



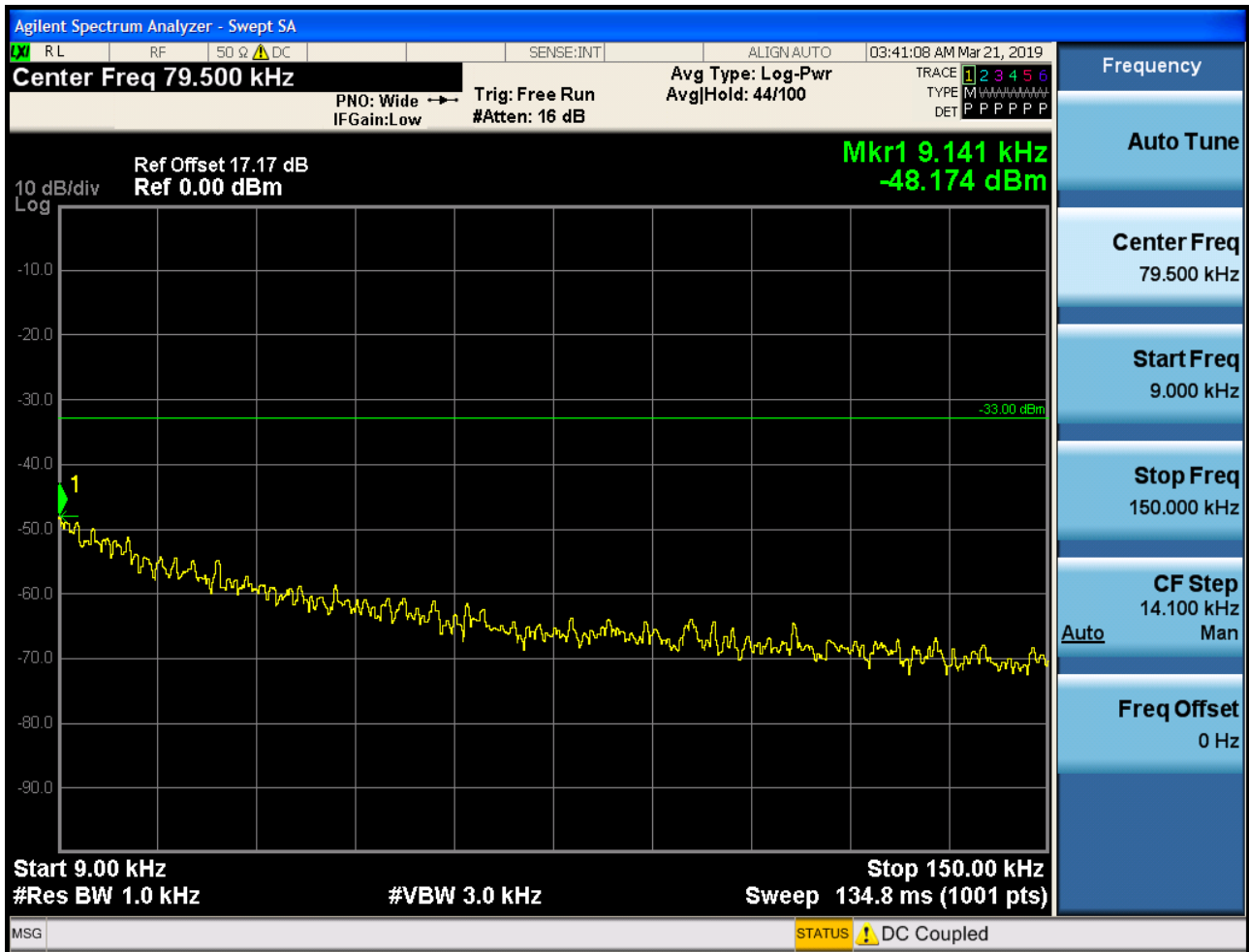


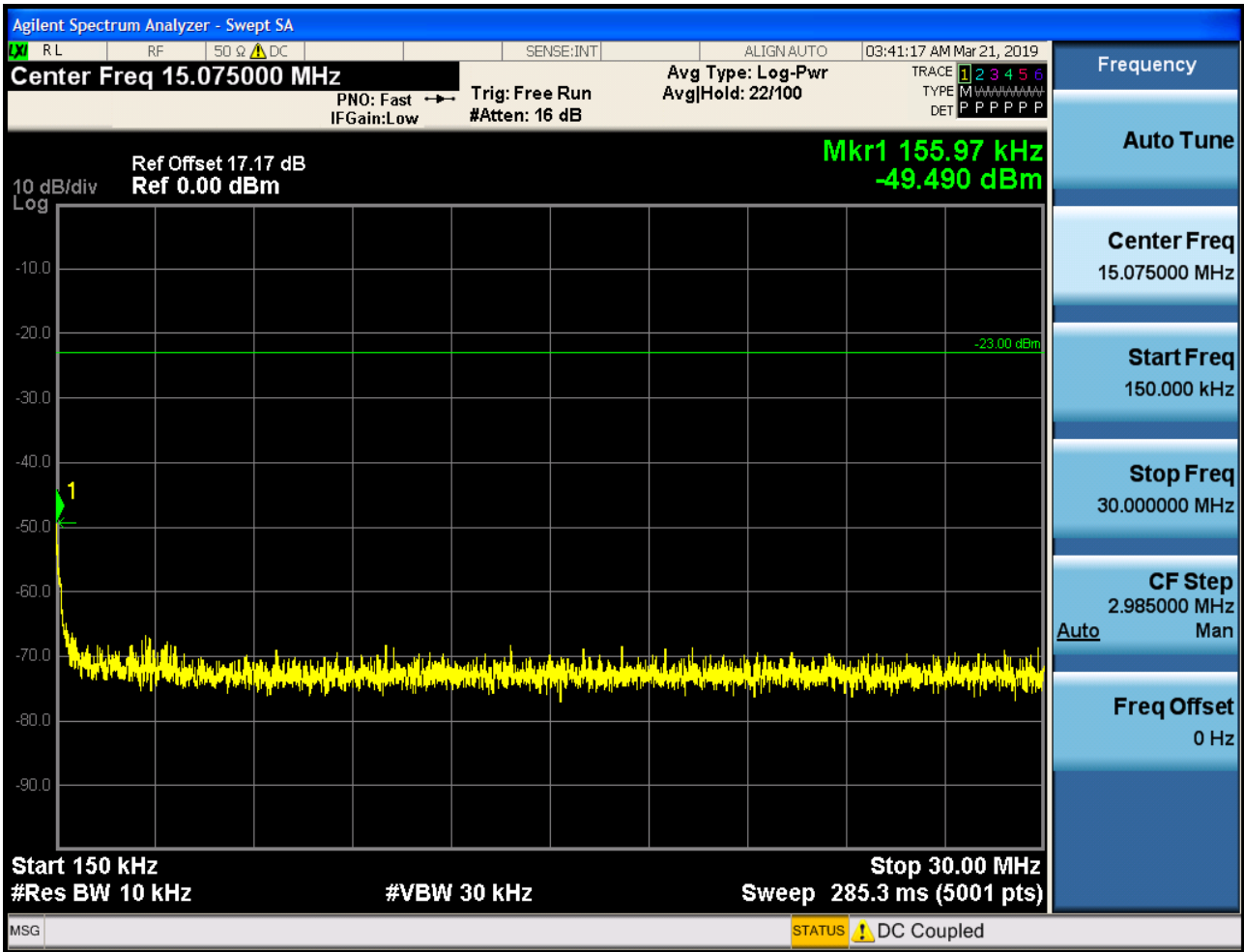


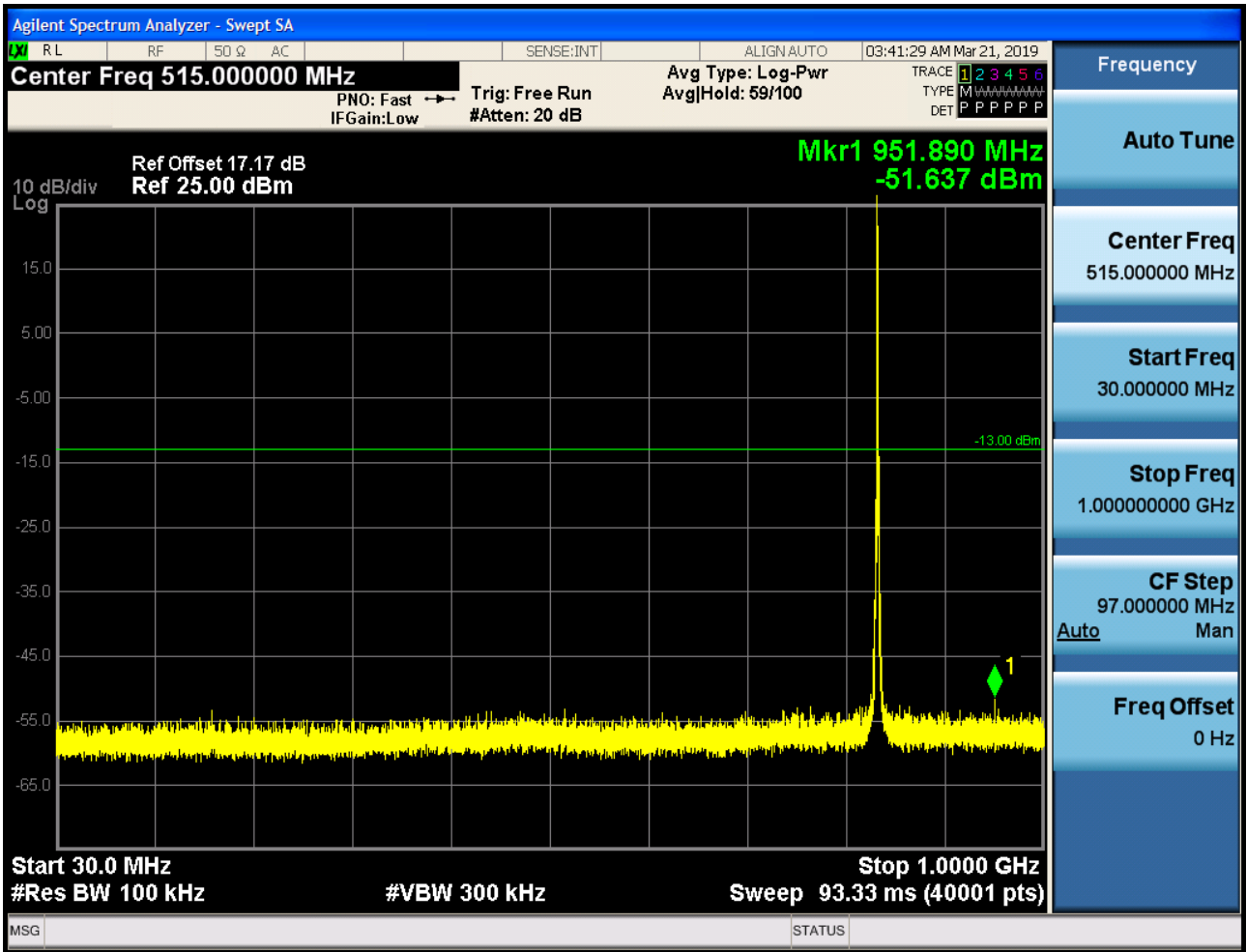


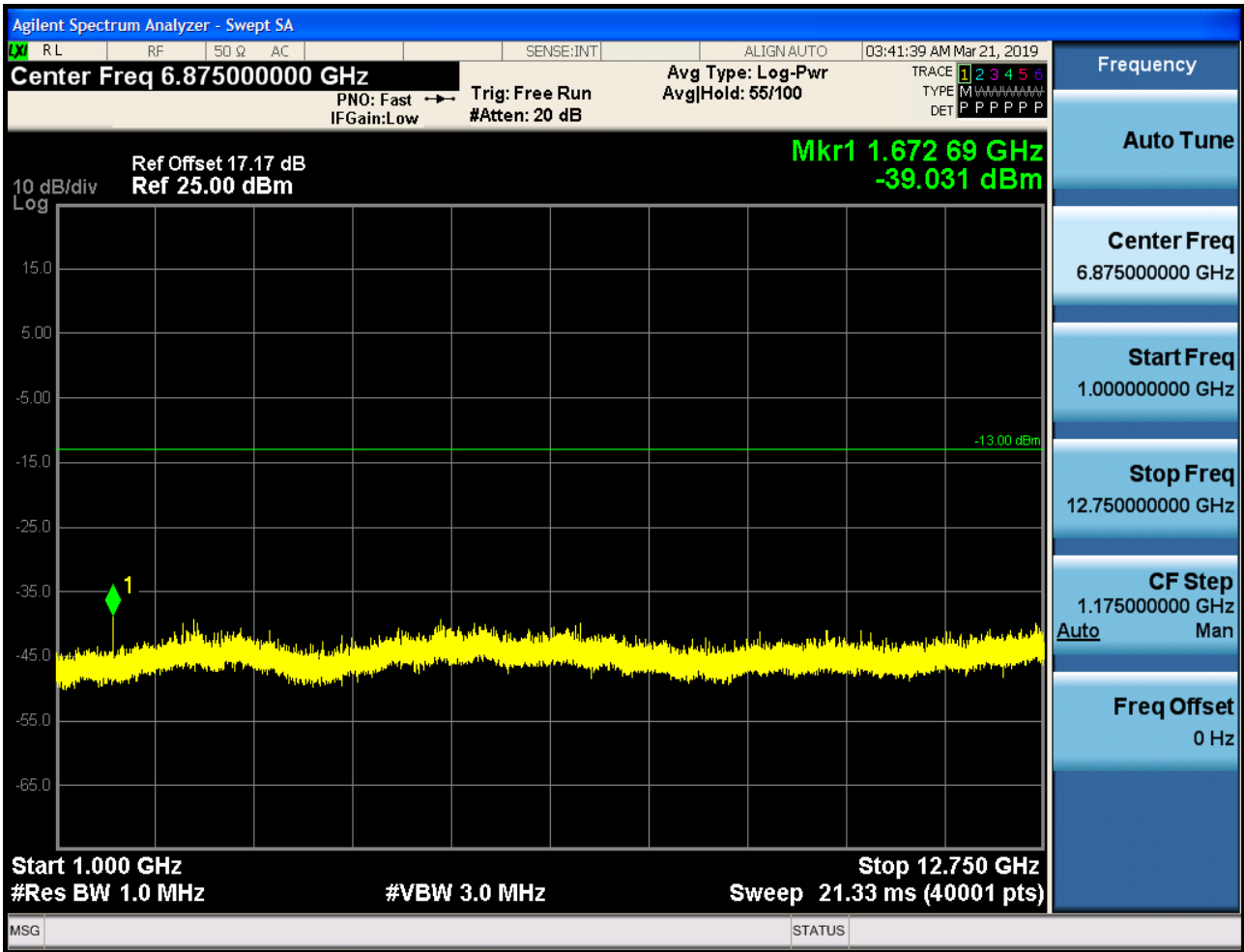
6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0





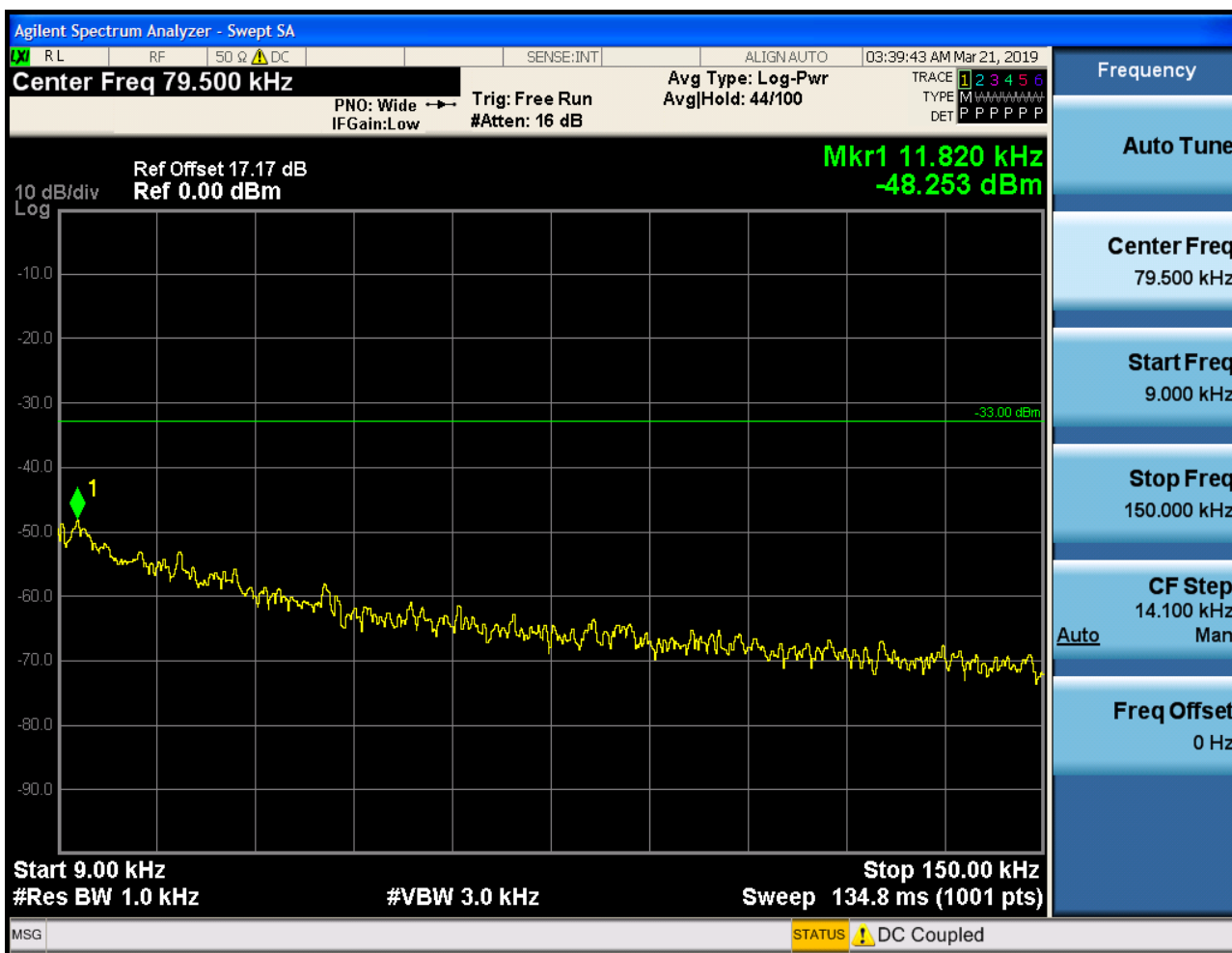


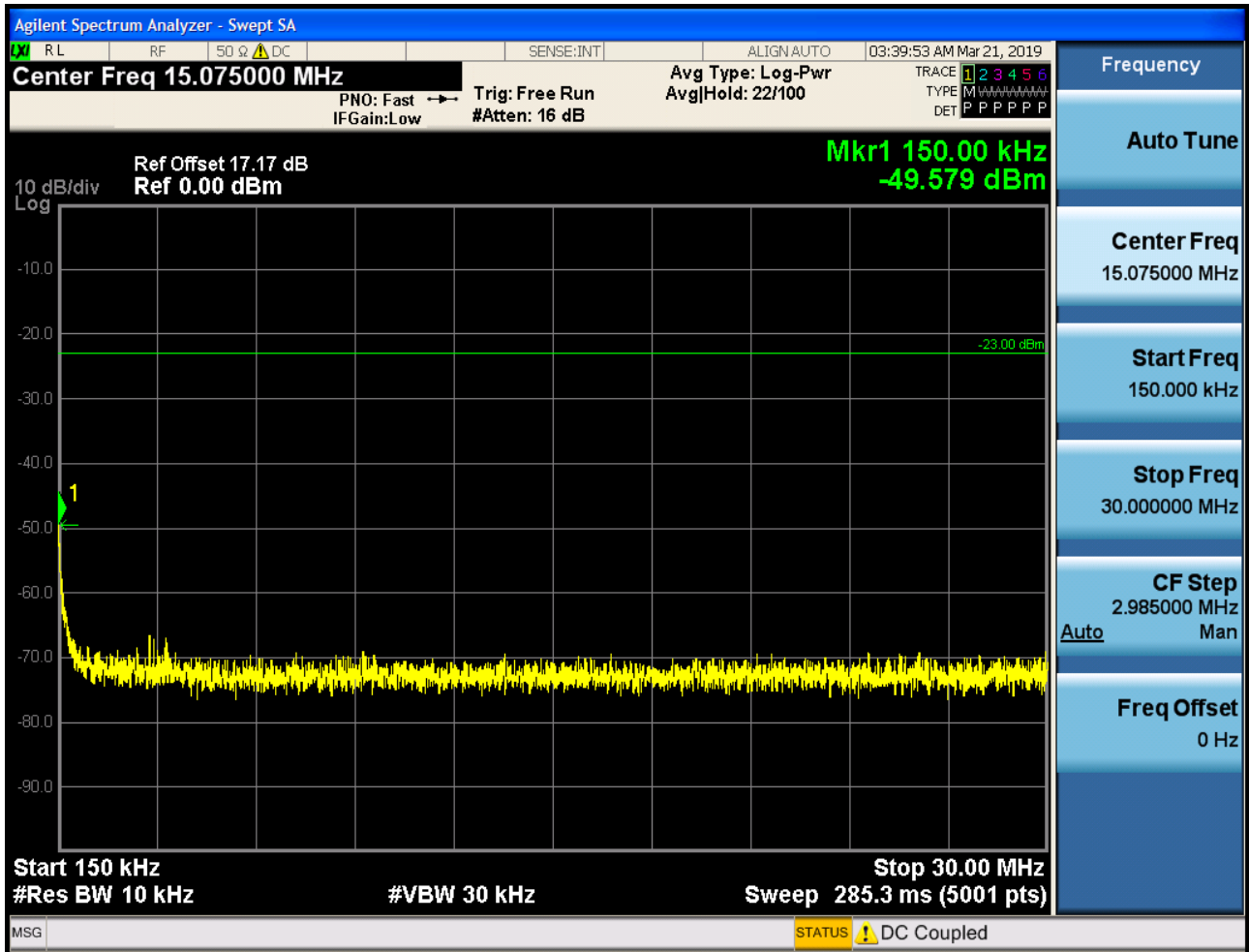


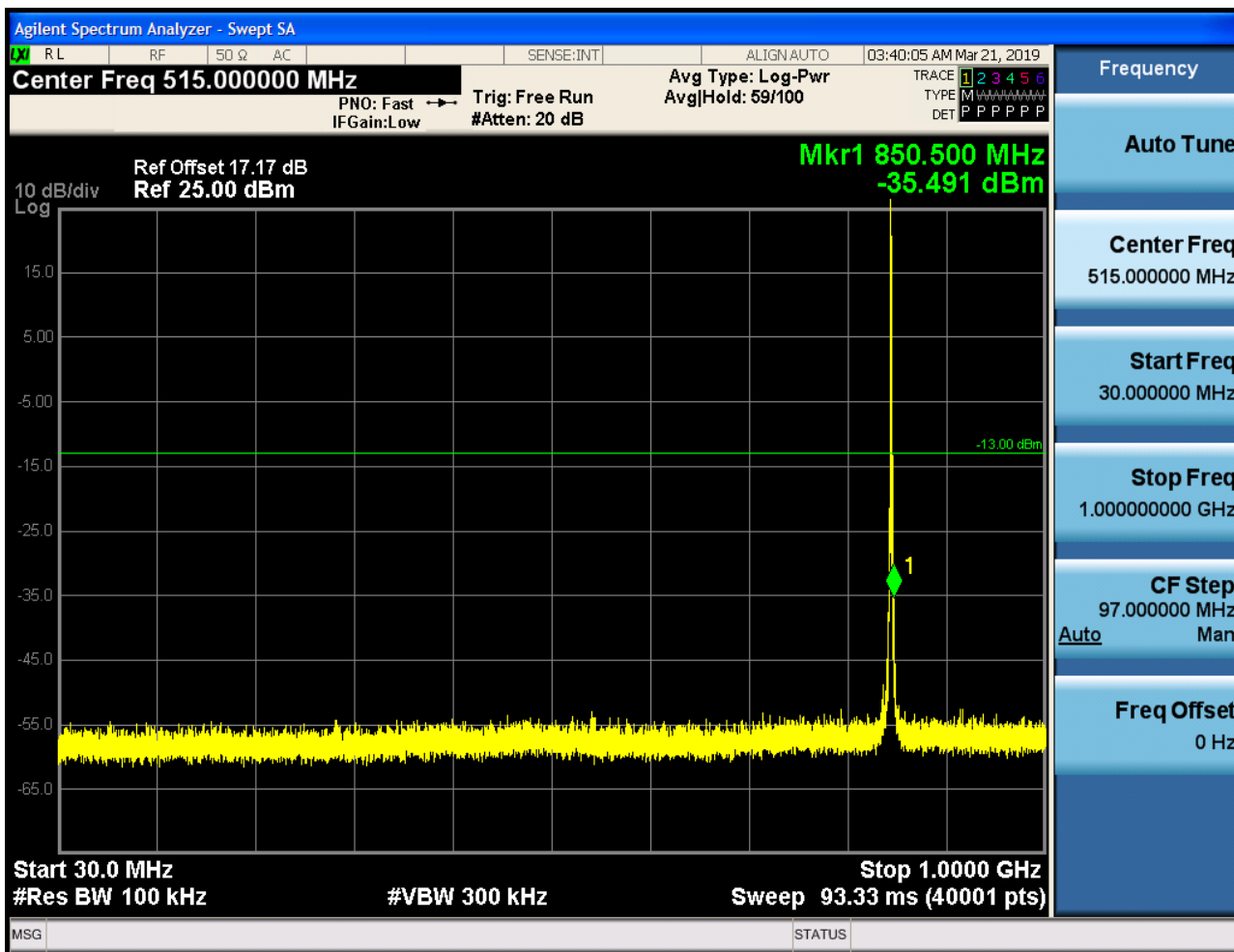


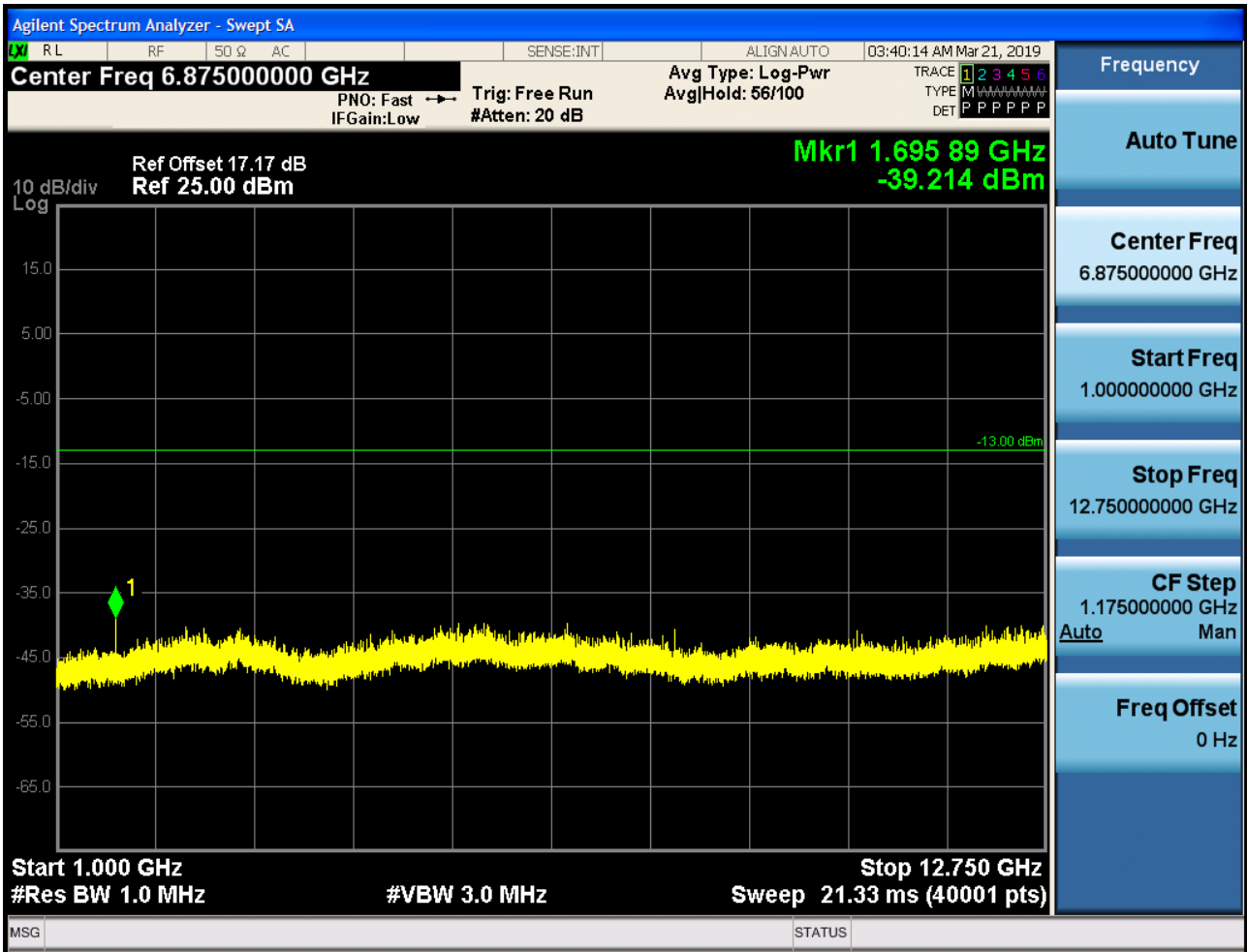
6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0





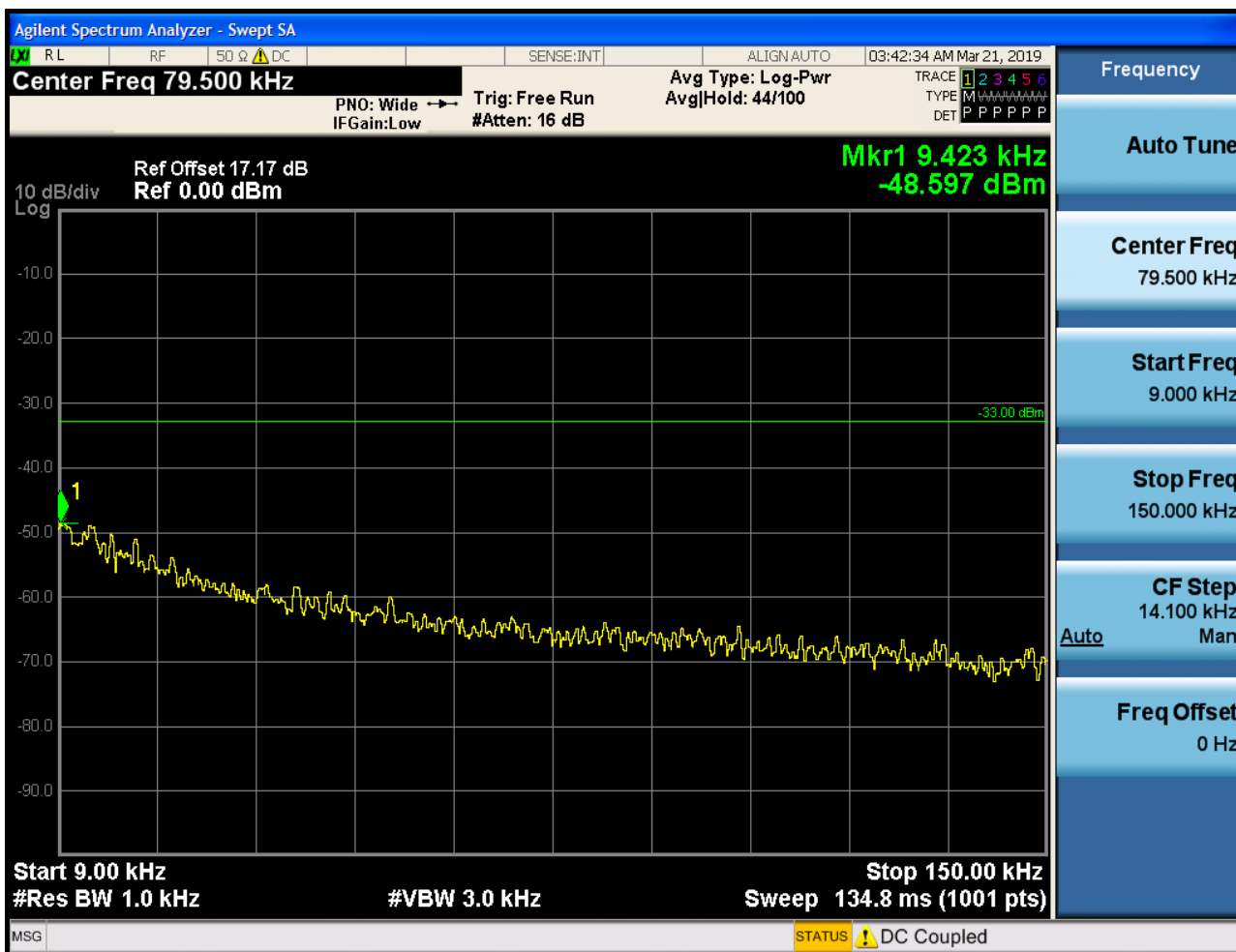


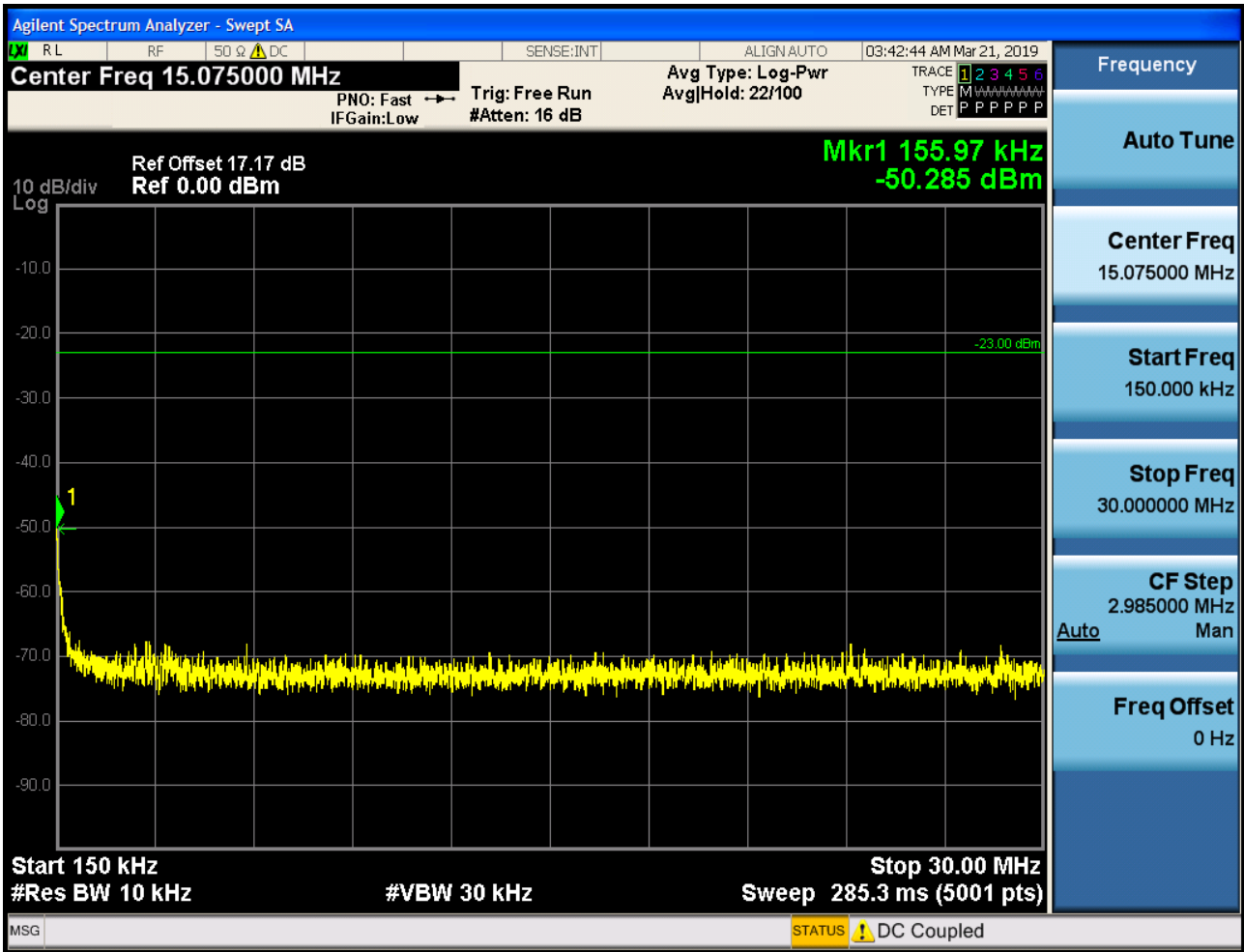


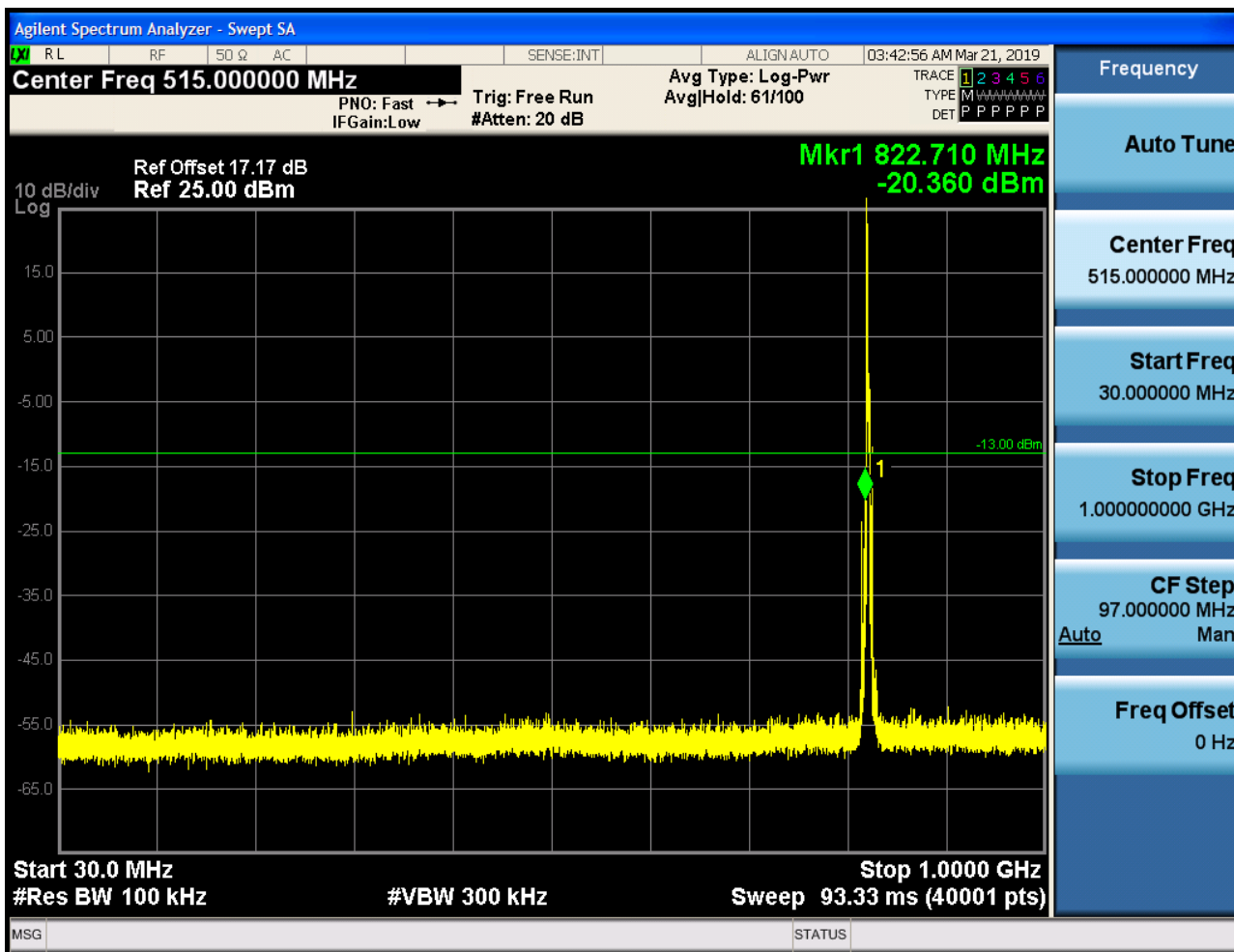
6.2.1.2.2 Test Bandwidth = 3

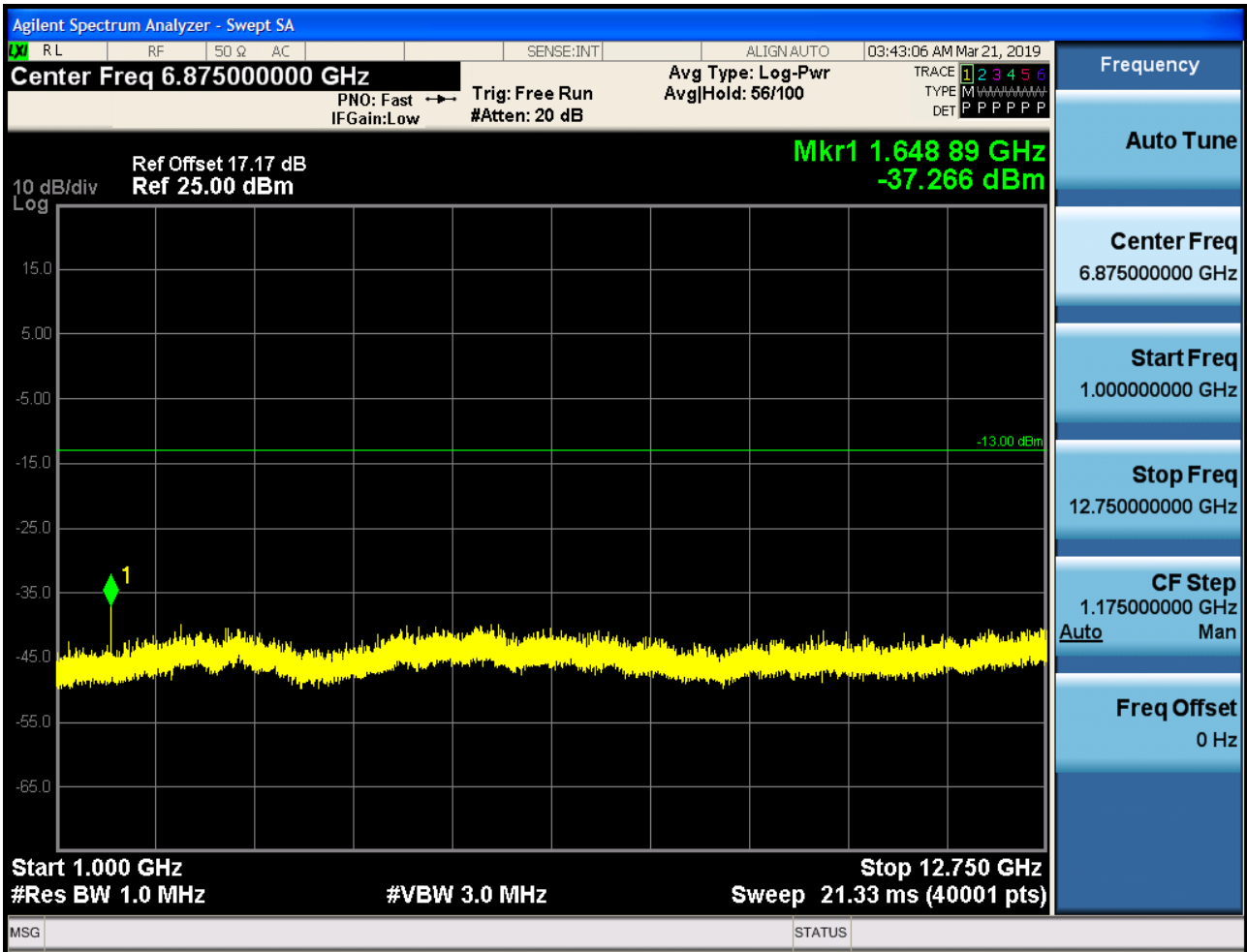
6.2.1.2.2.1 Test Channel = LCH

6.2.1.2.2.1.1 Test RB = RB1#0





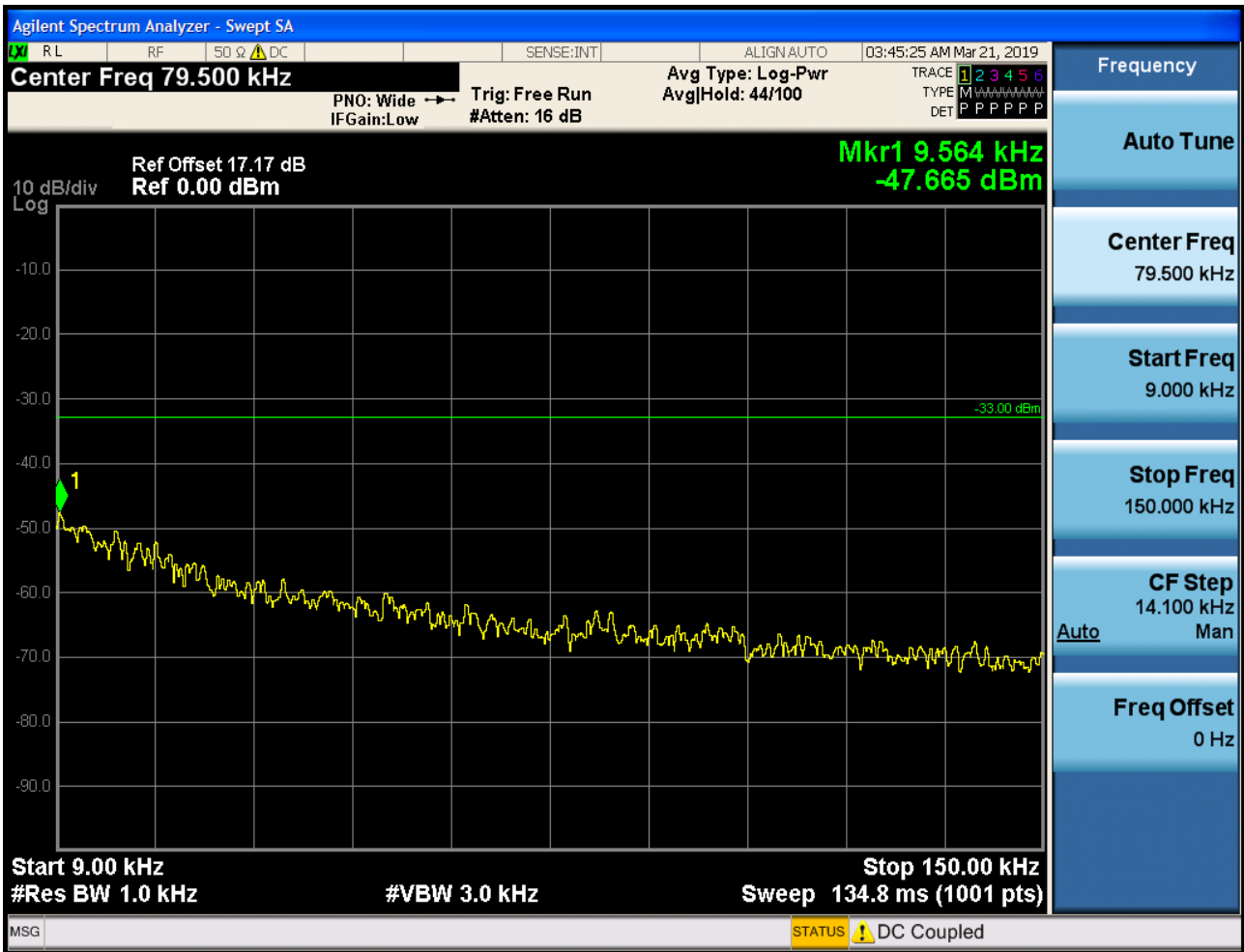


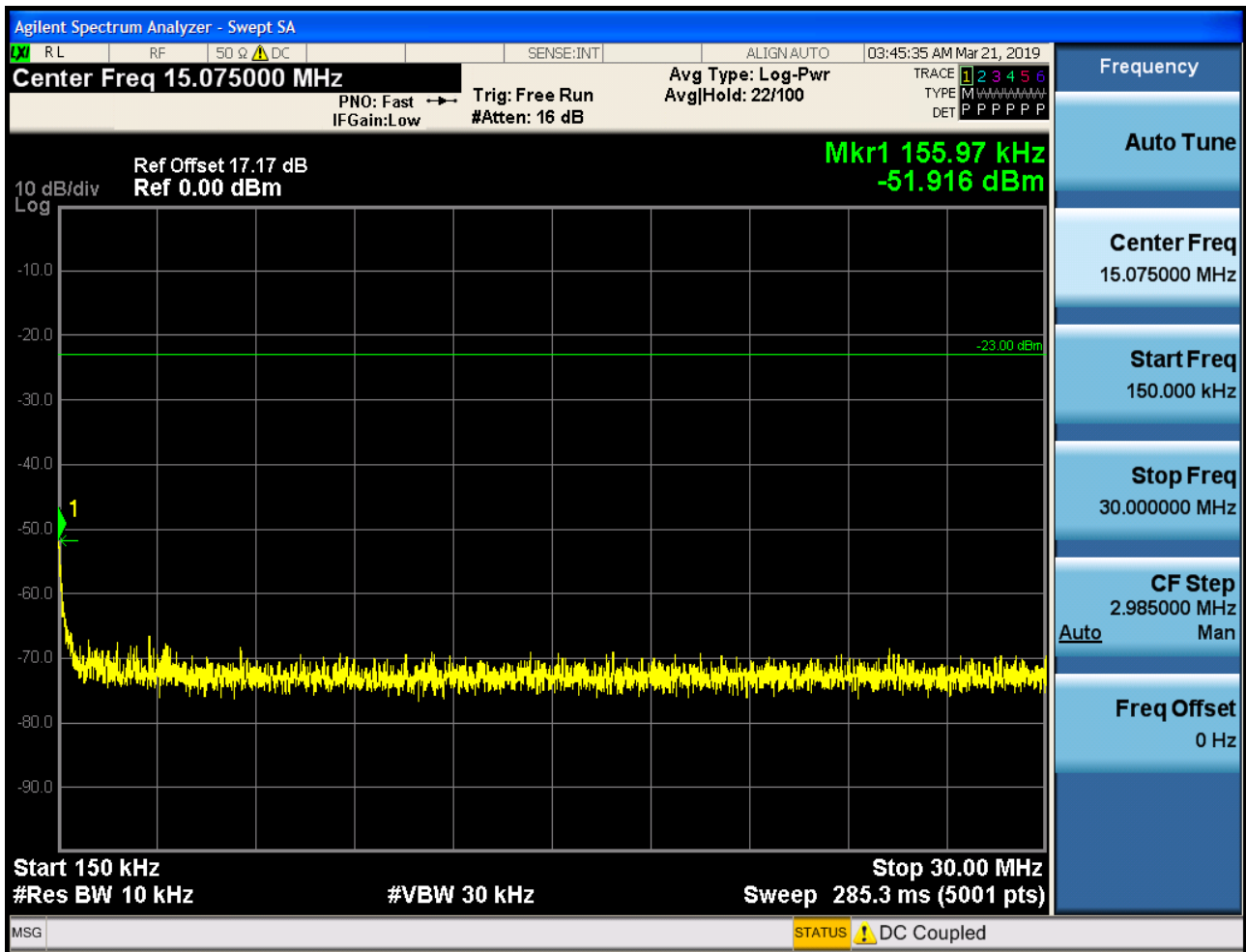


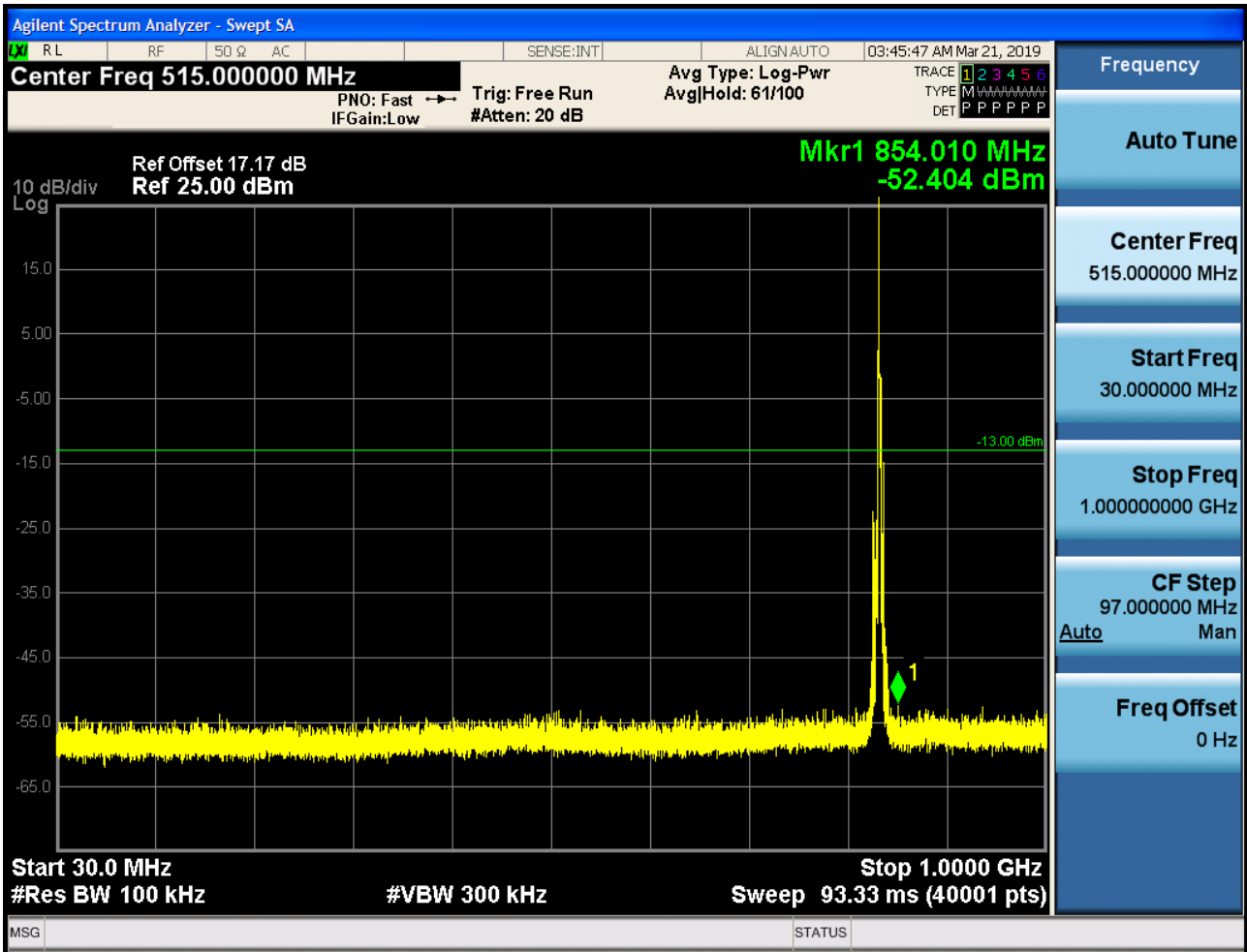


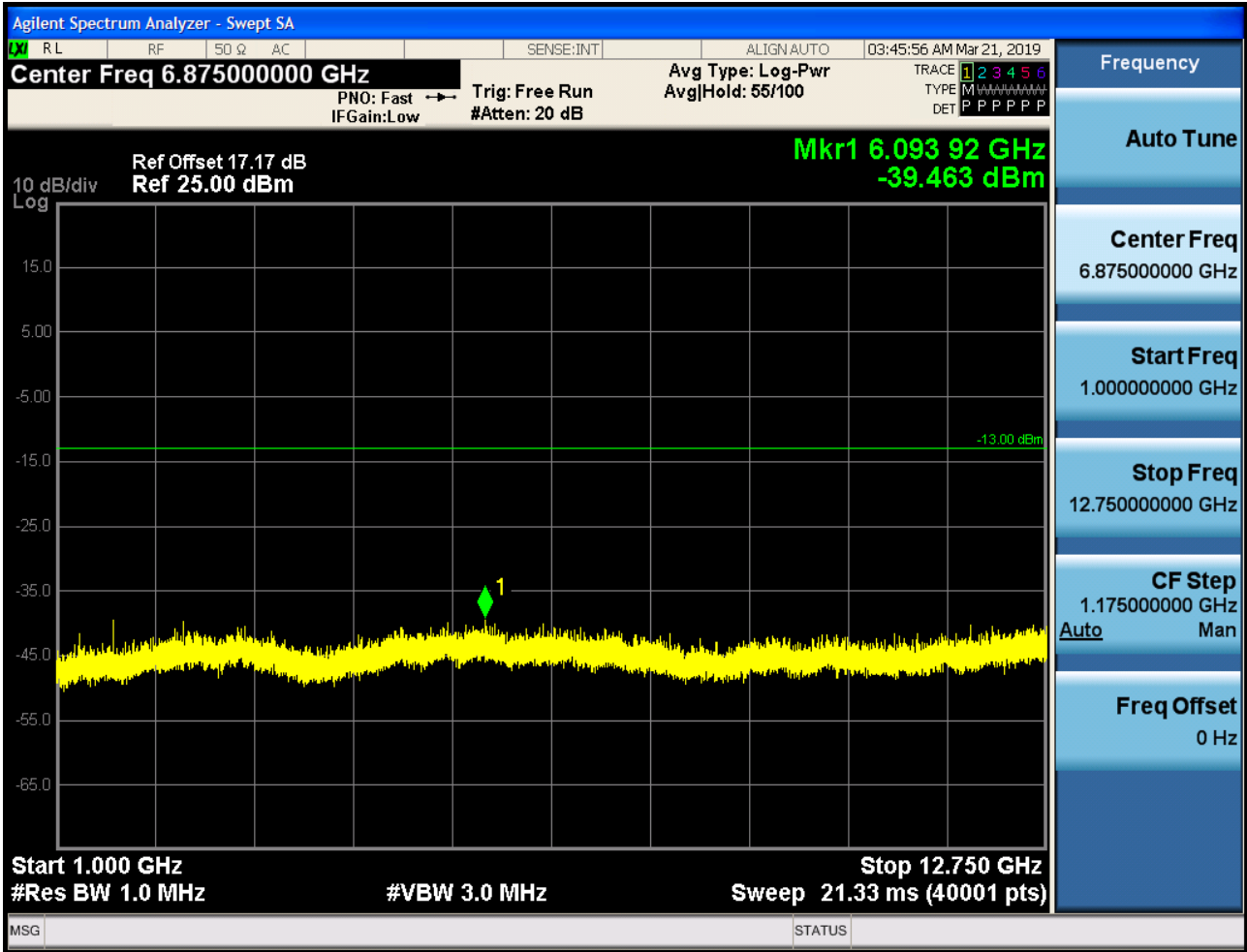
6.2.1.2.2.2 Test Channel = MCH

6.2.1.2.2.2.1 Test RB = RB1#0



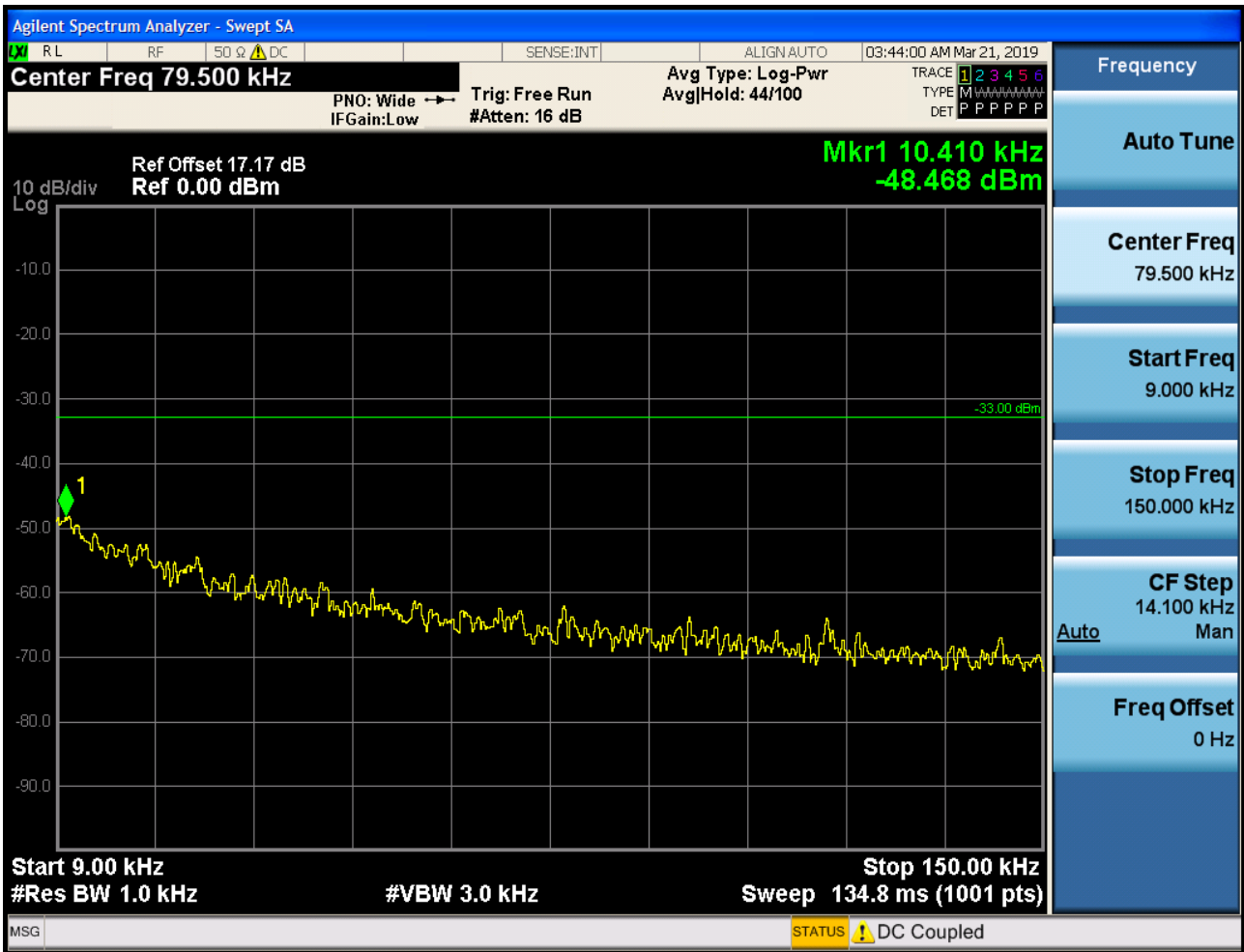


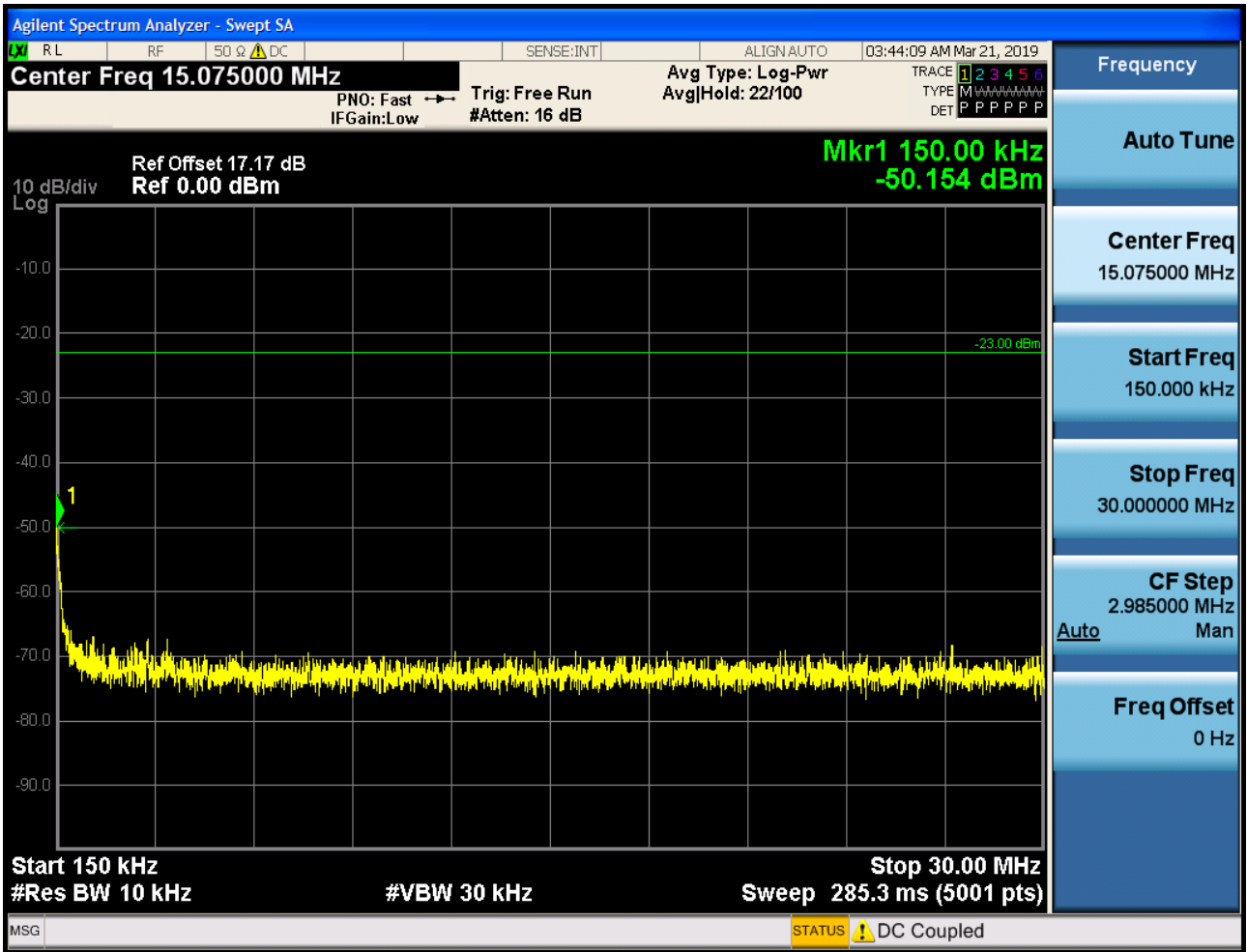


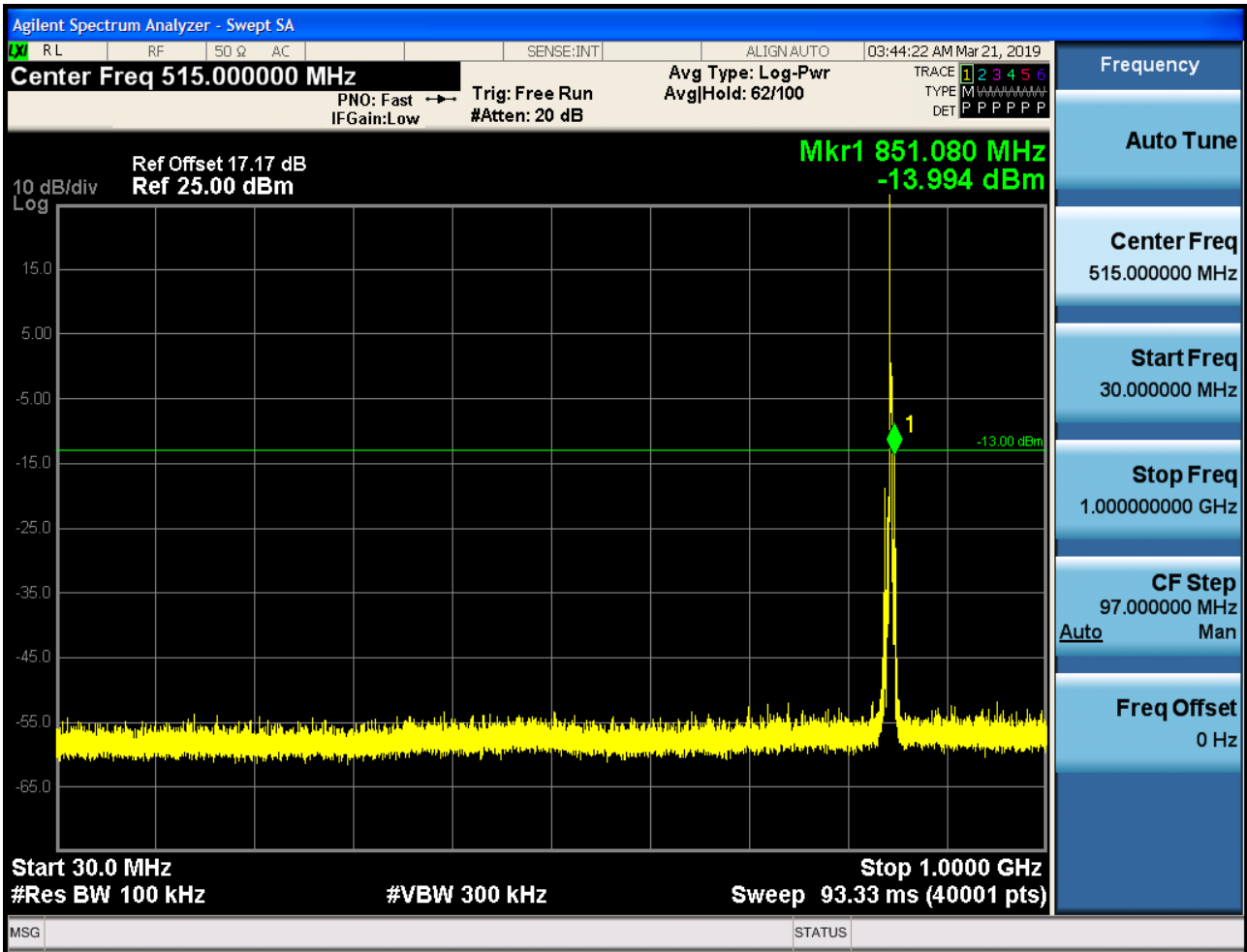


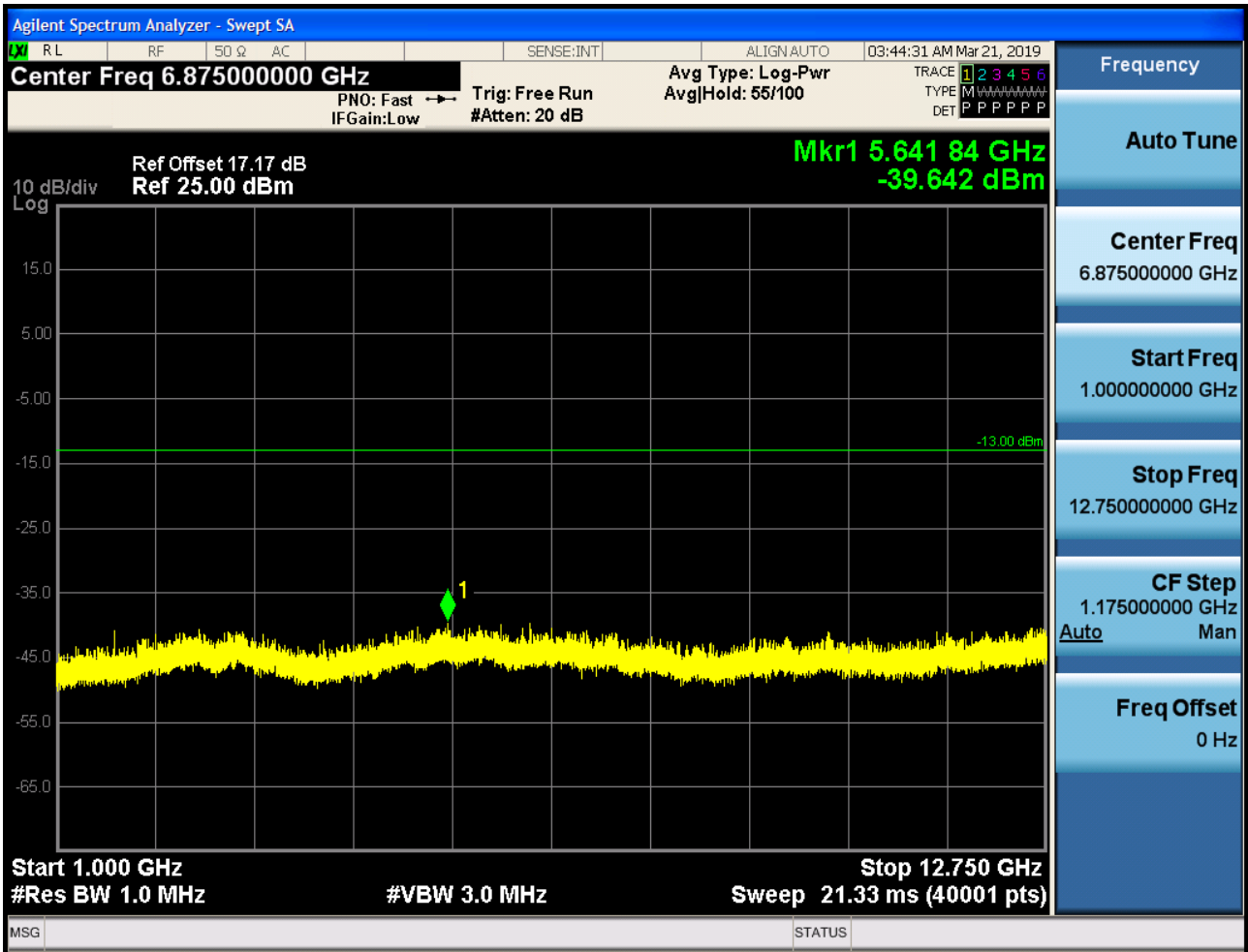
6.2.1.2.2.3 Test Channel = HCH

6.2.1.2.2.3.1 Test RB = RB1#0





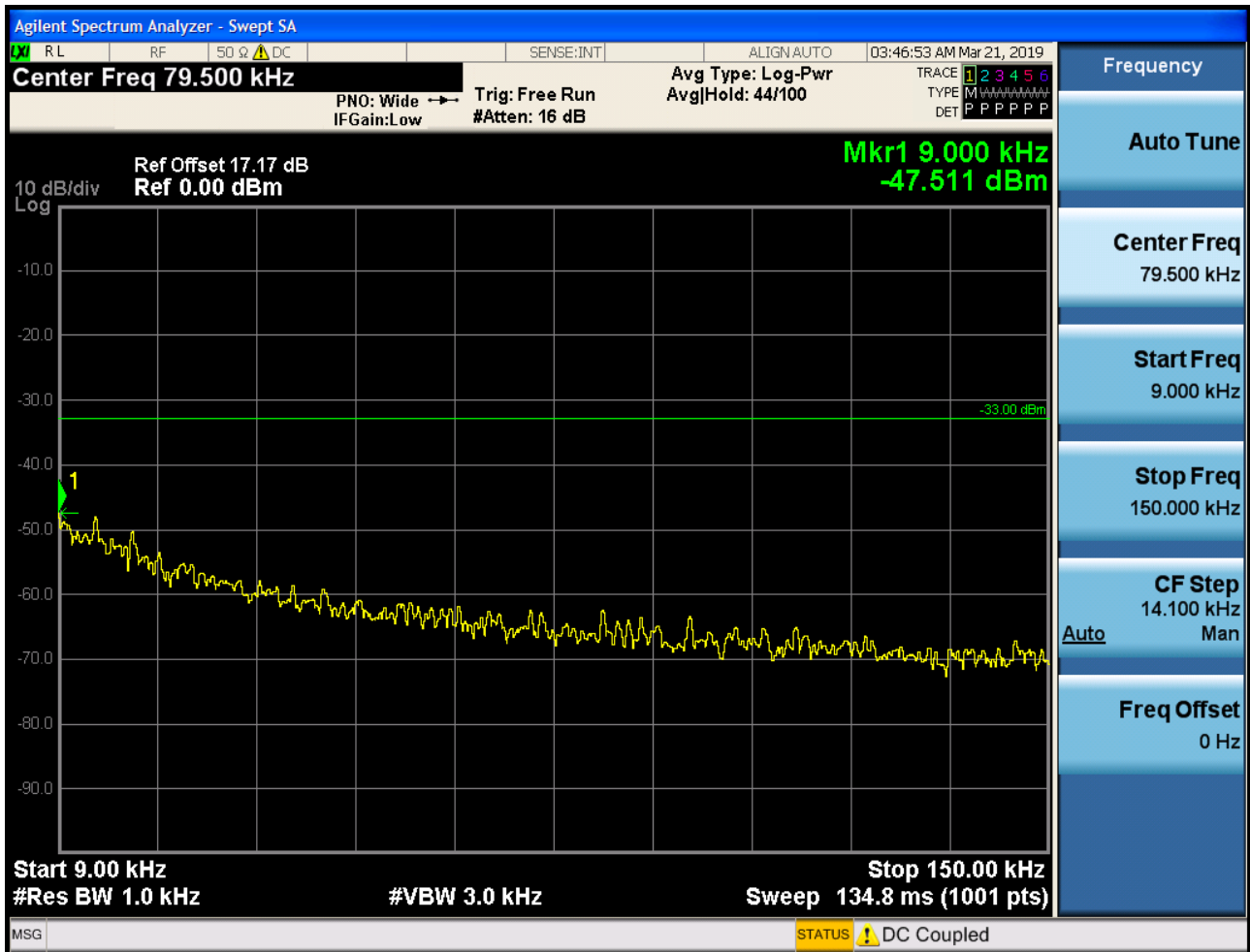


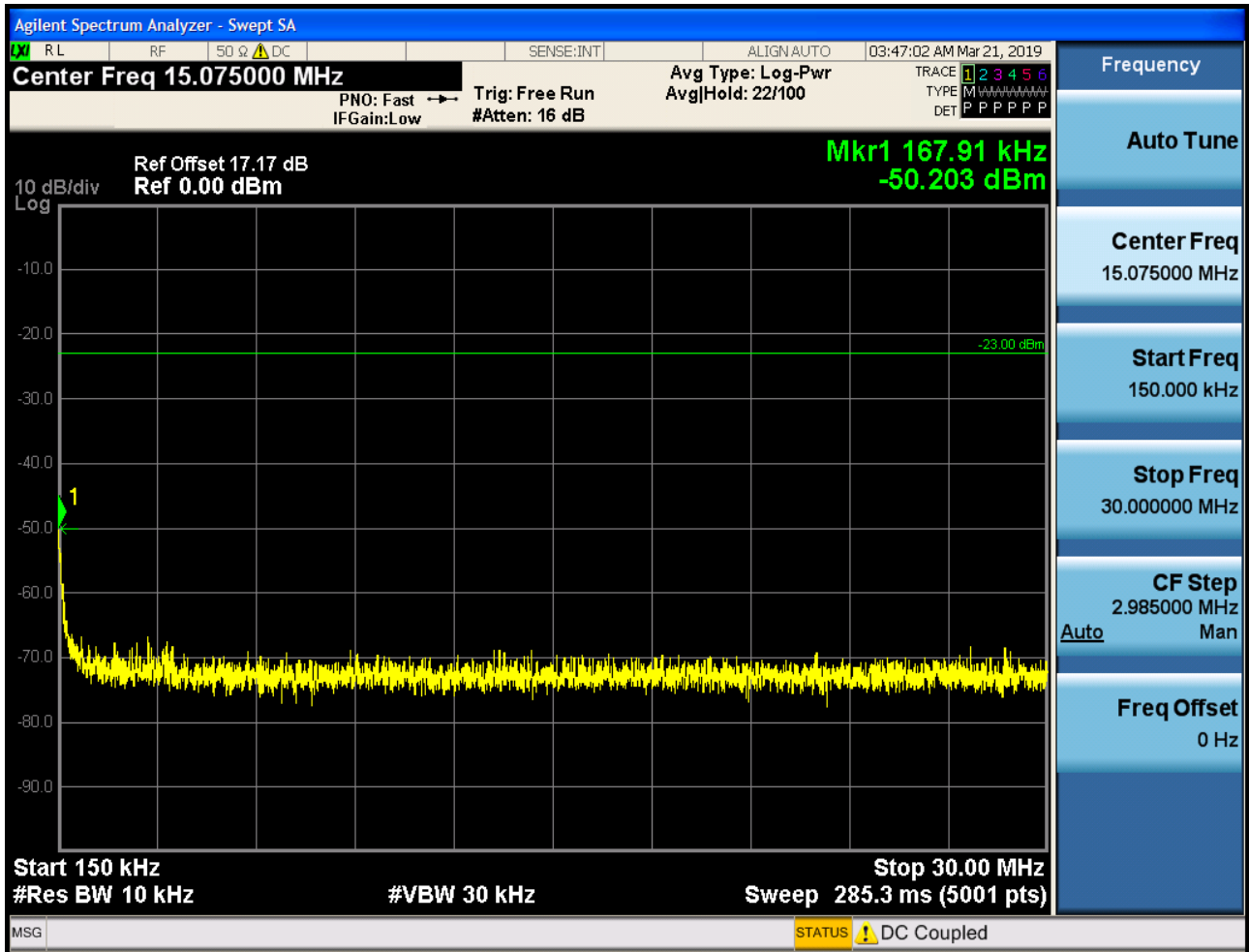


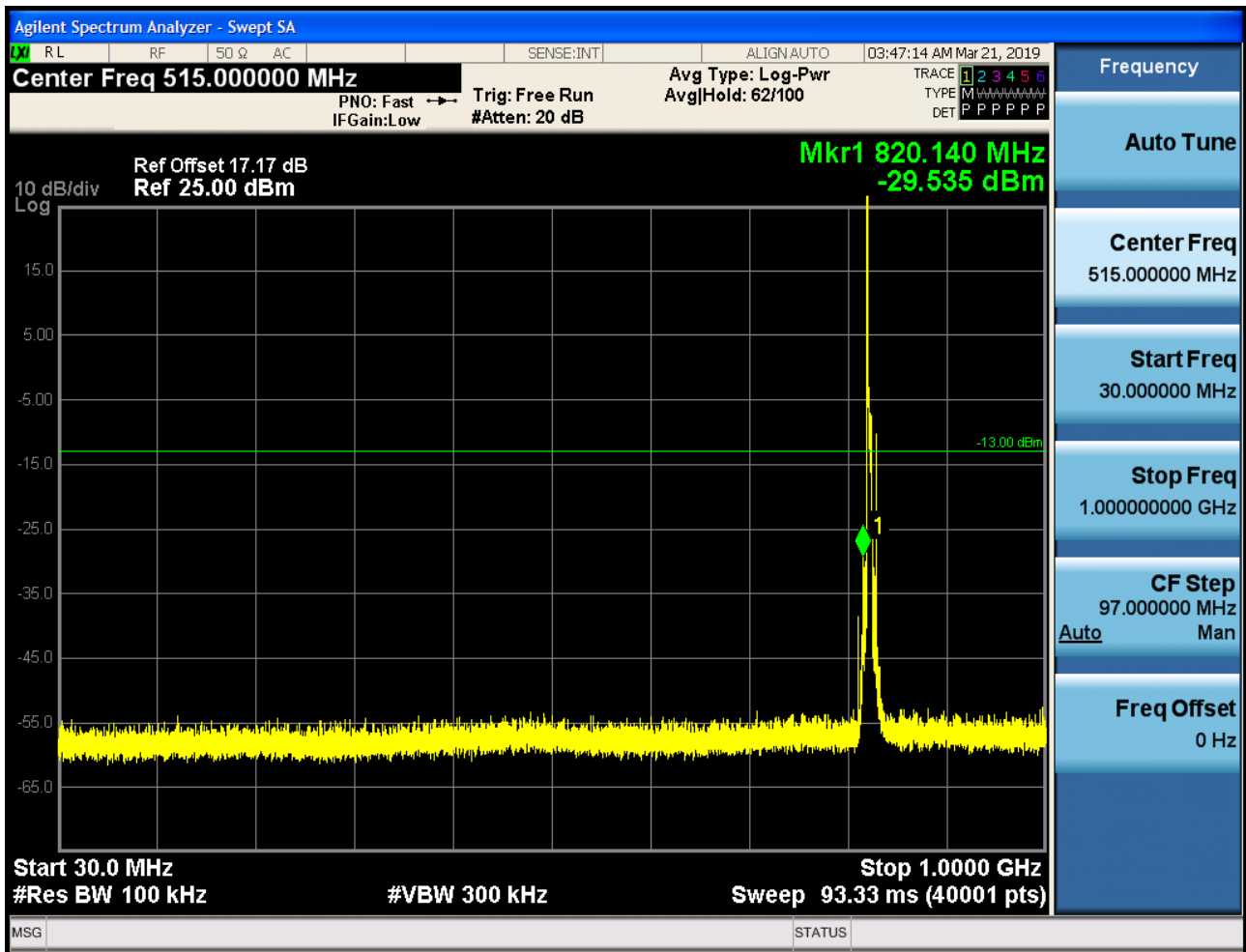
6.2.1.2.3 Test Bandwidth = 5

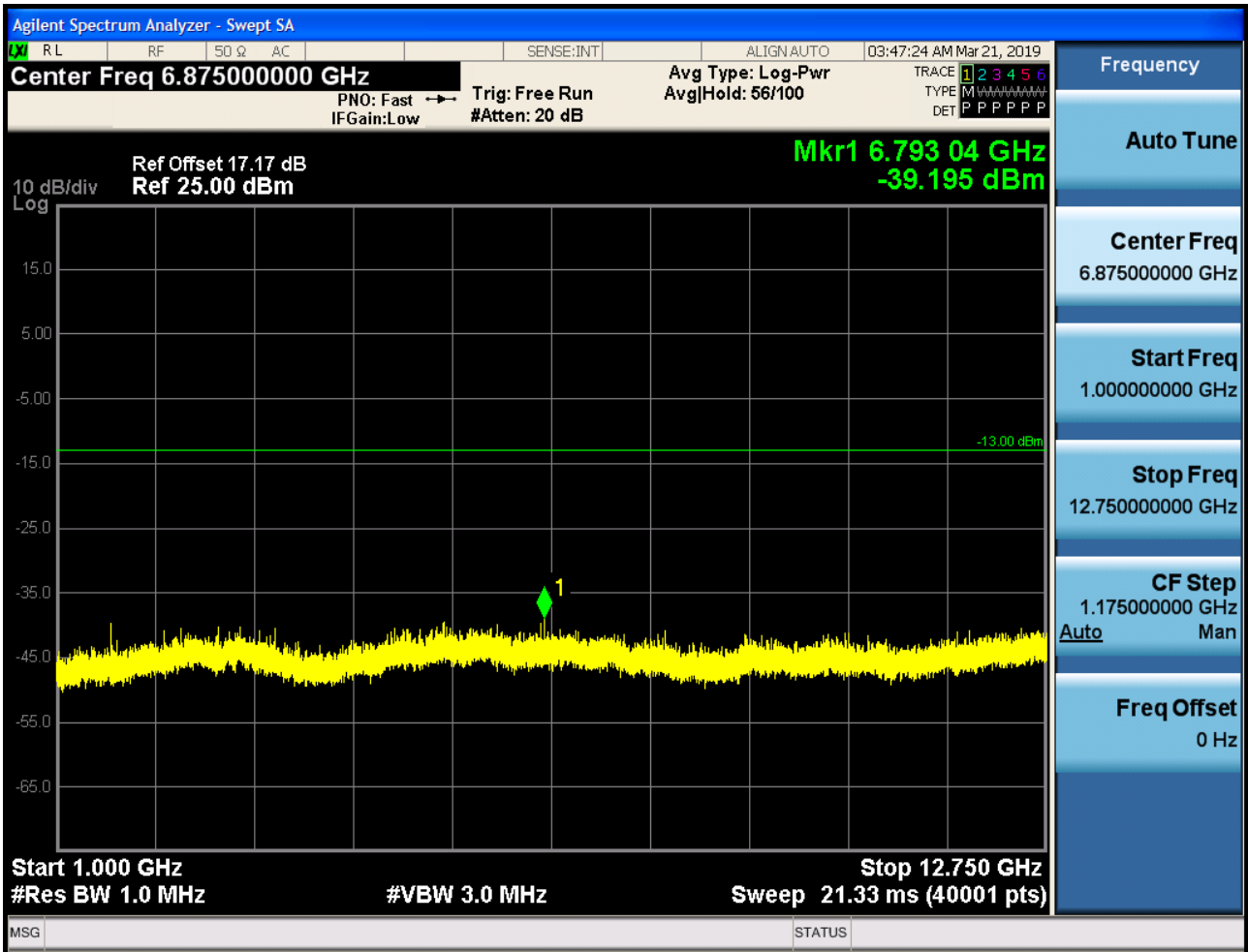
6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0



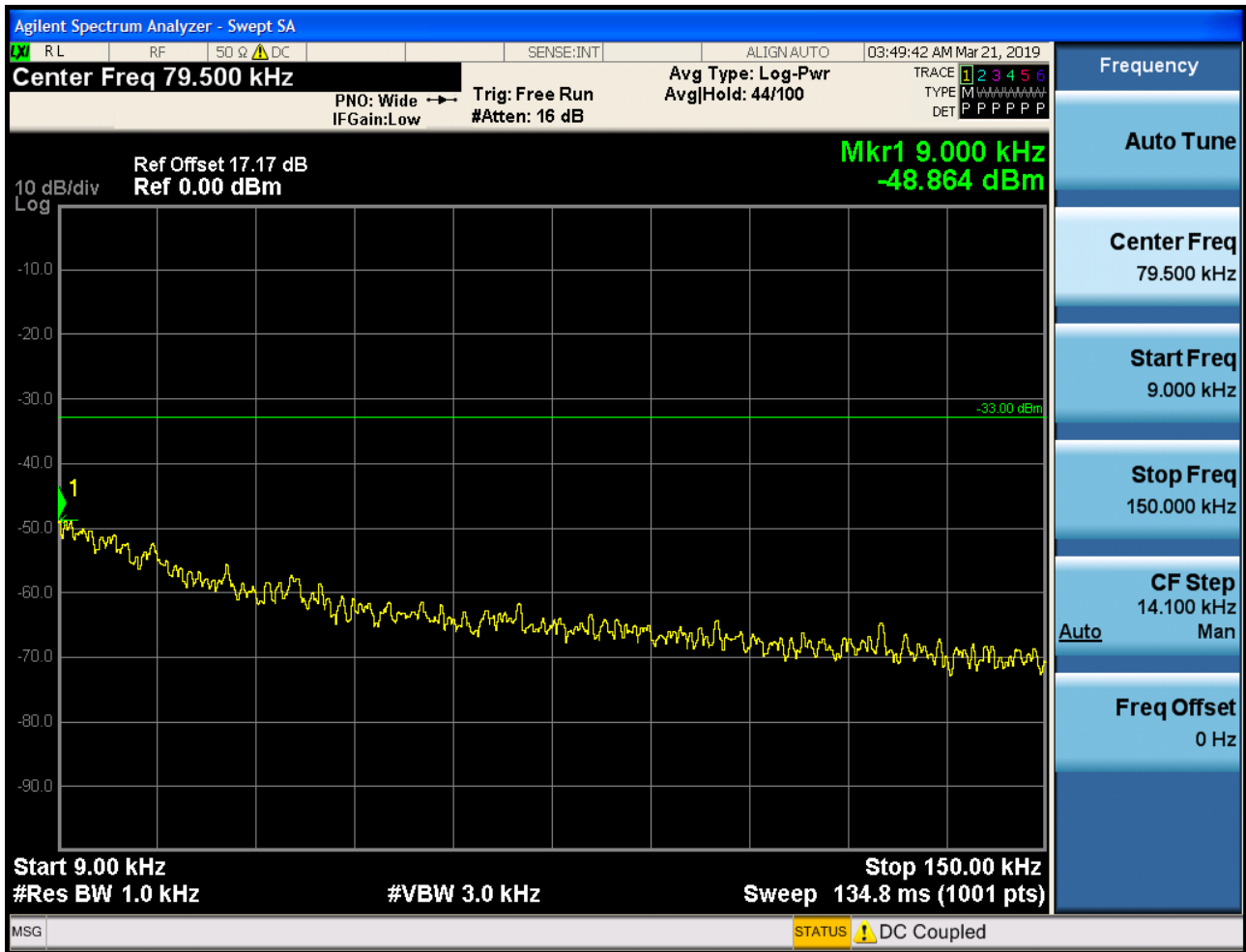


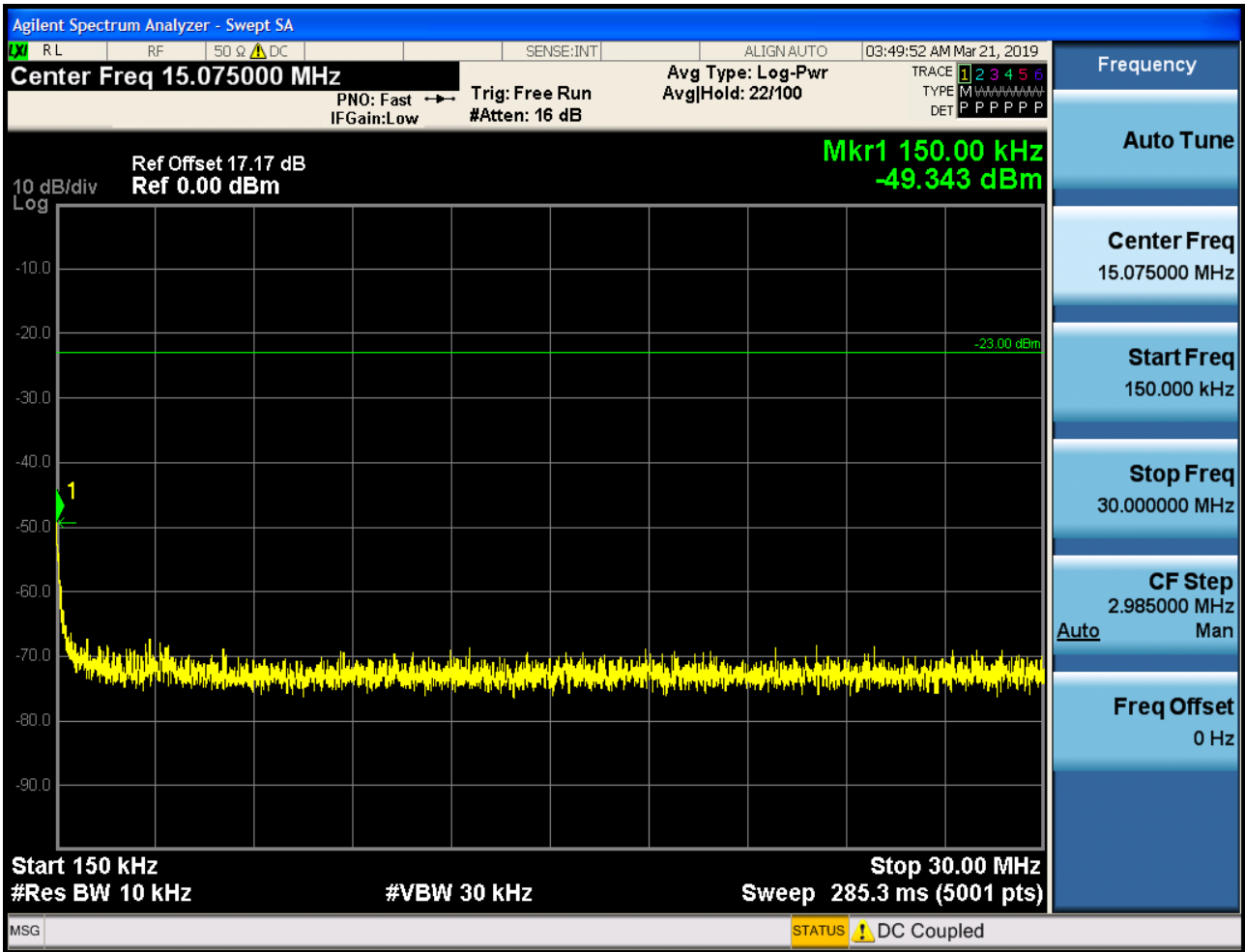


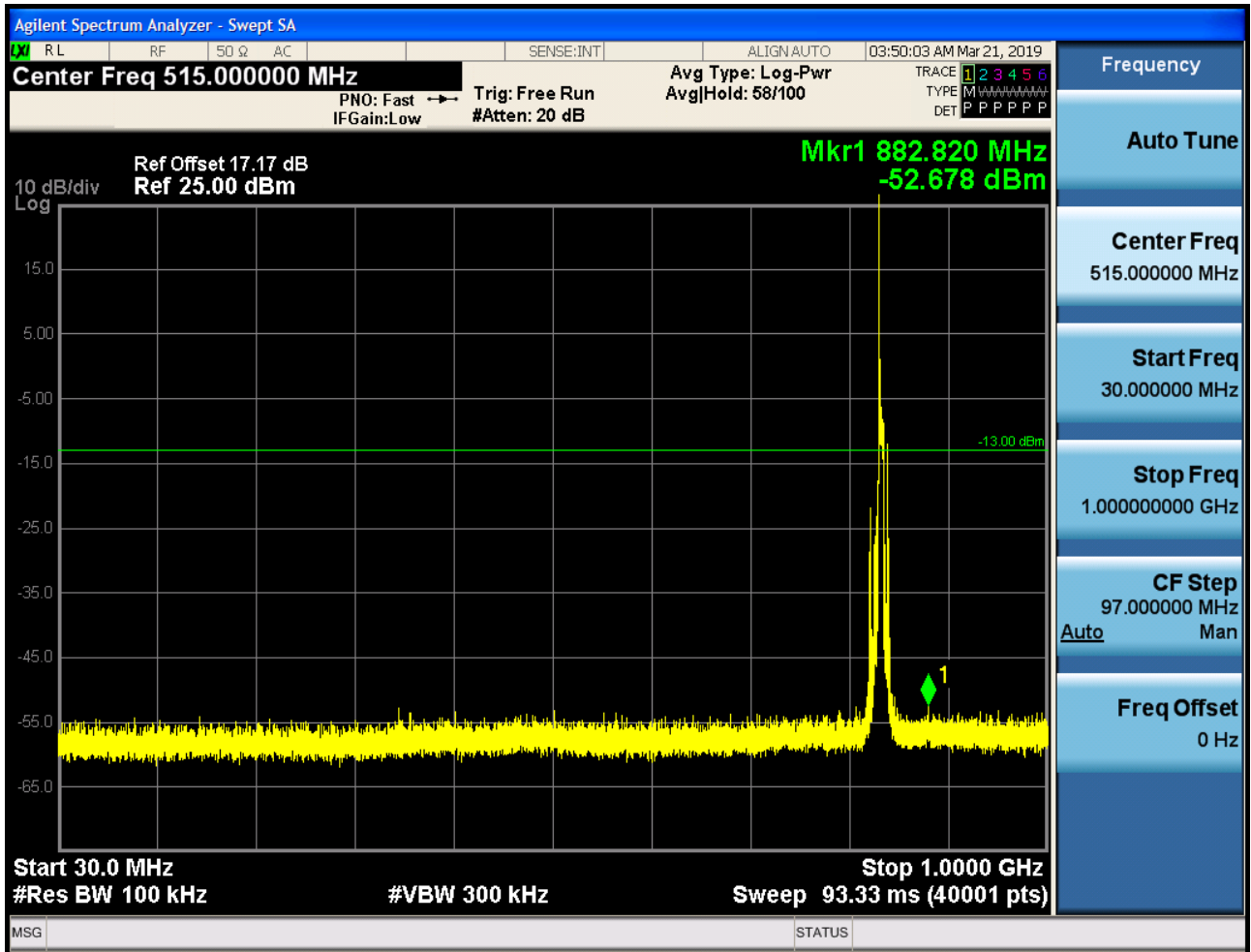


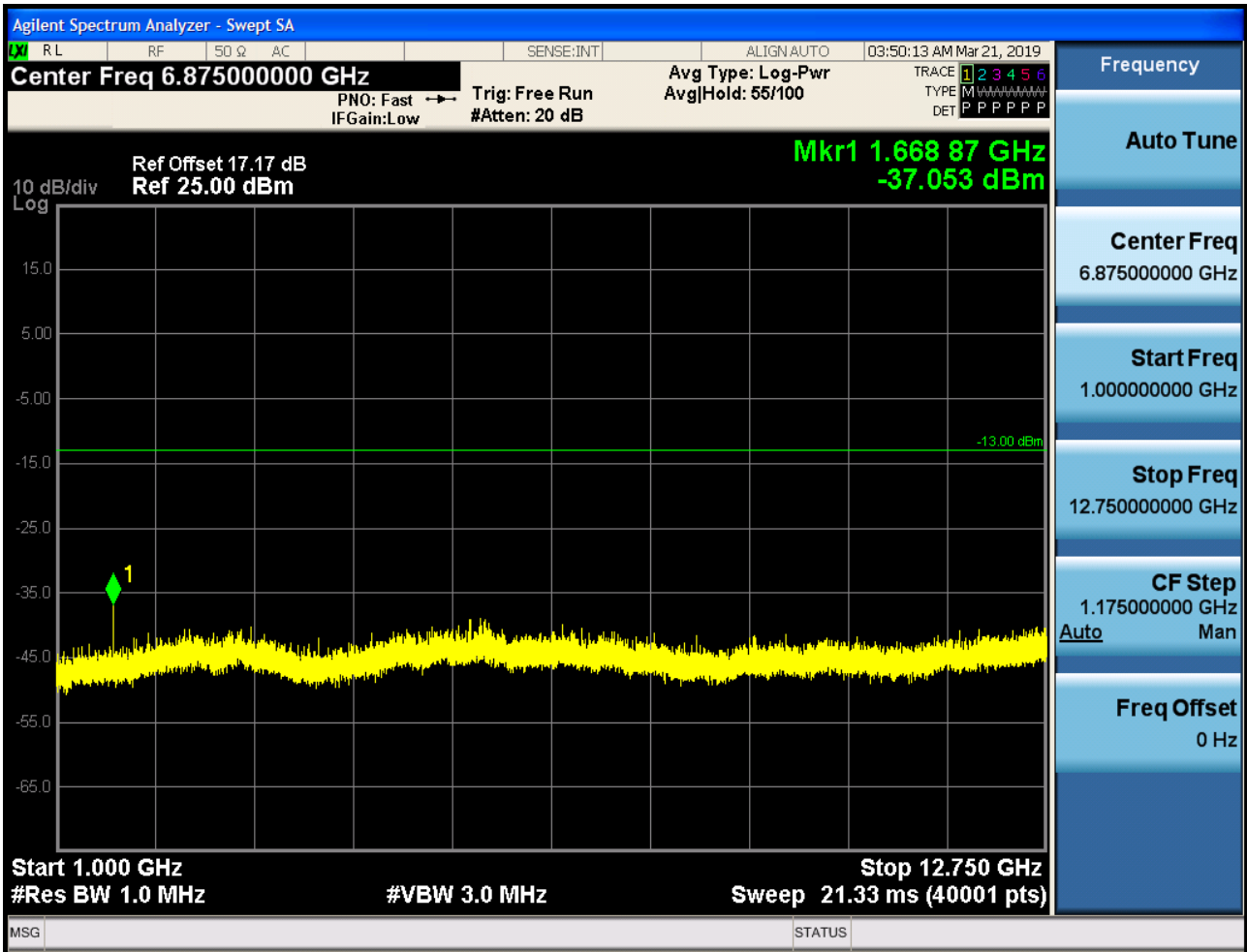
6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0



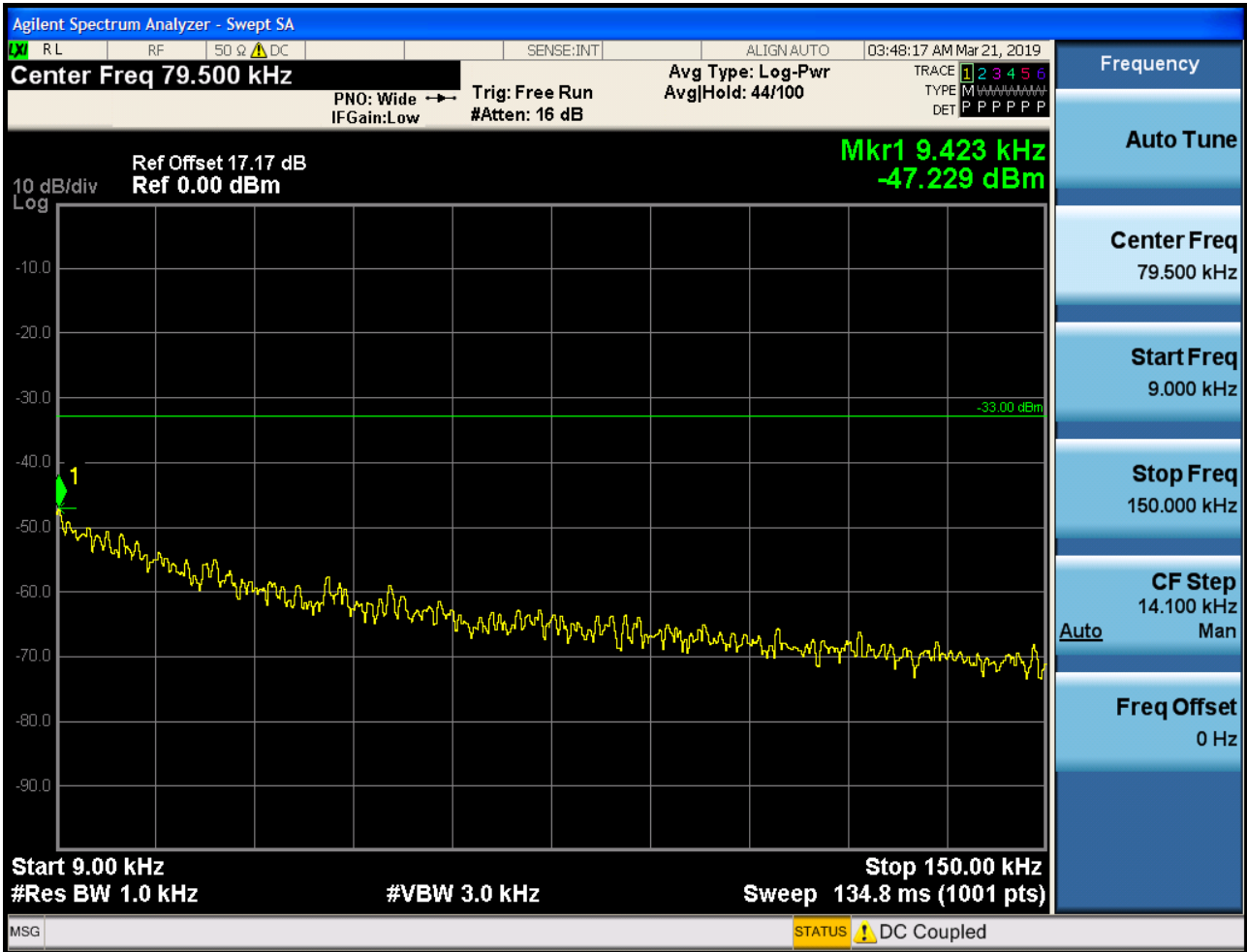


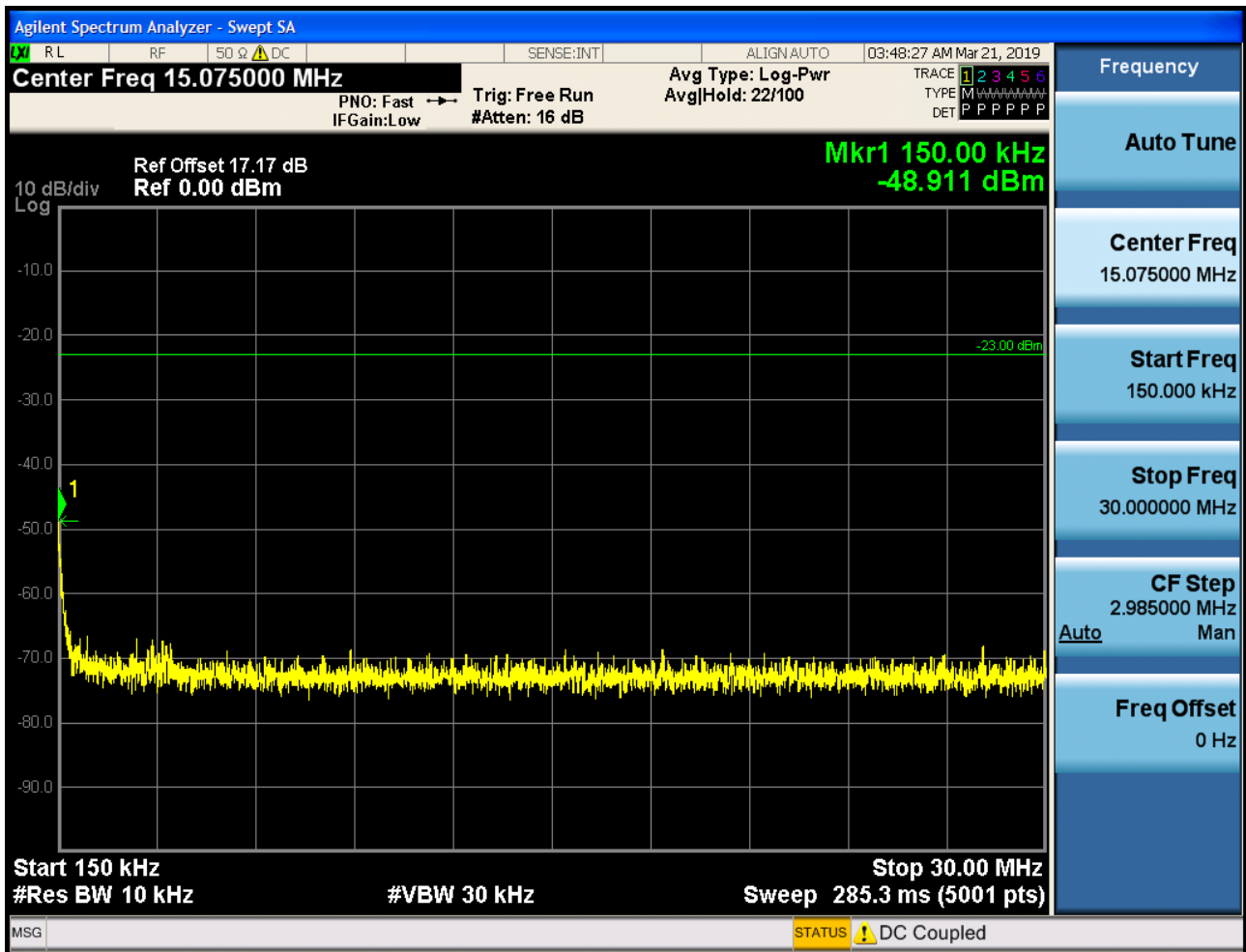


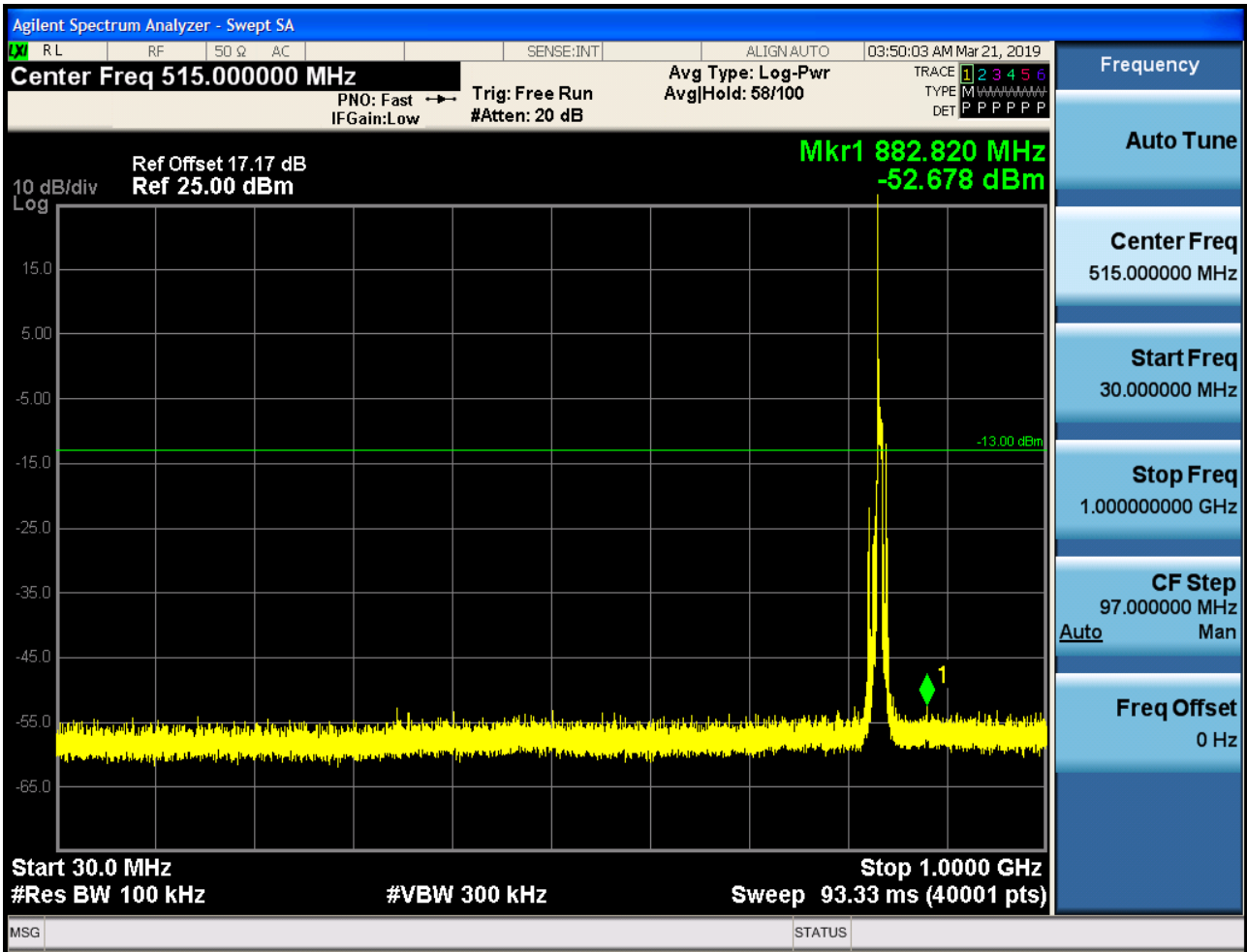


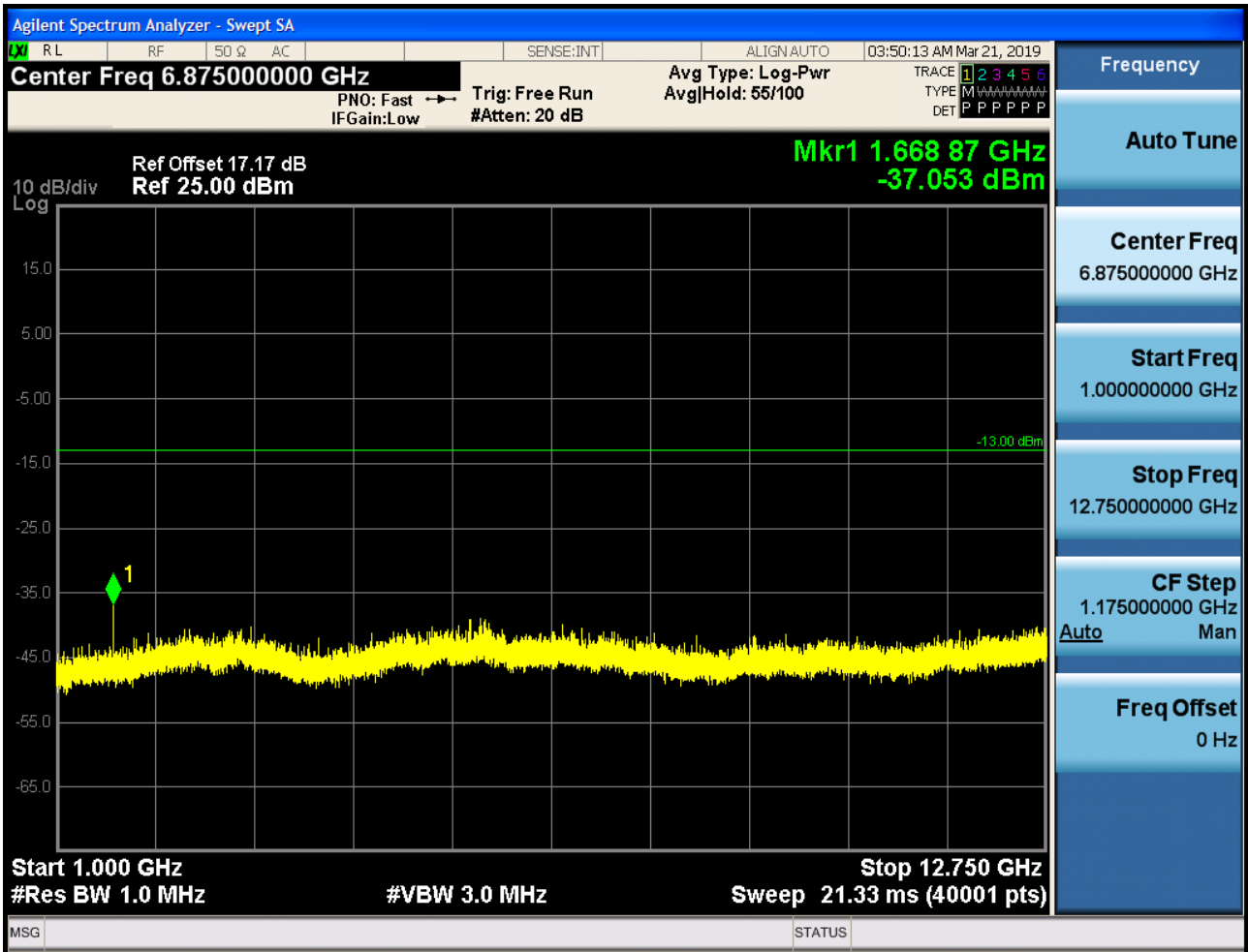
6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0





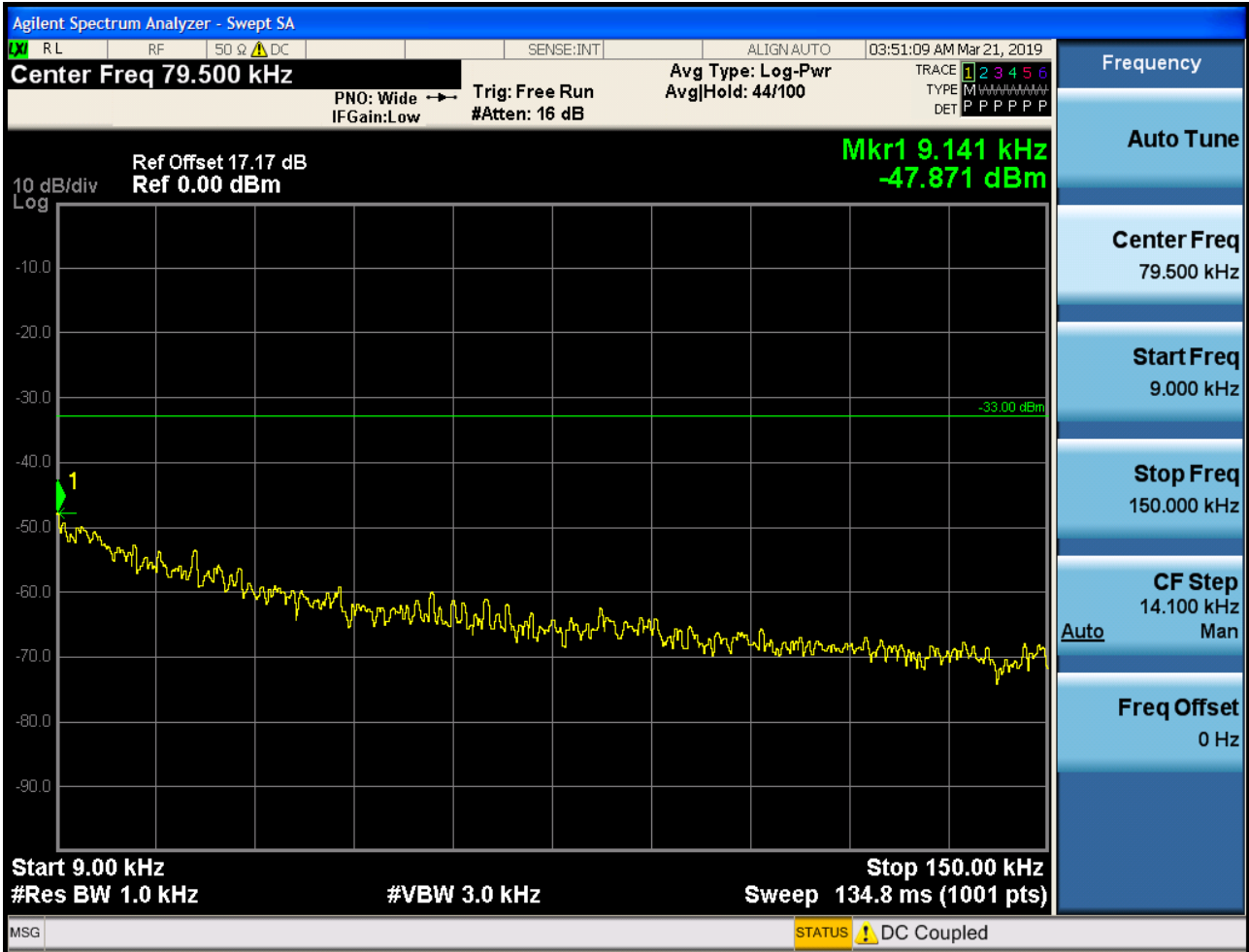


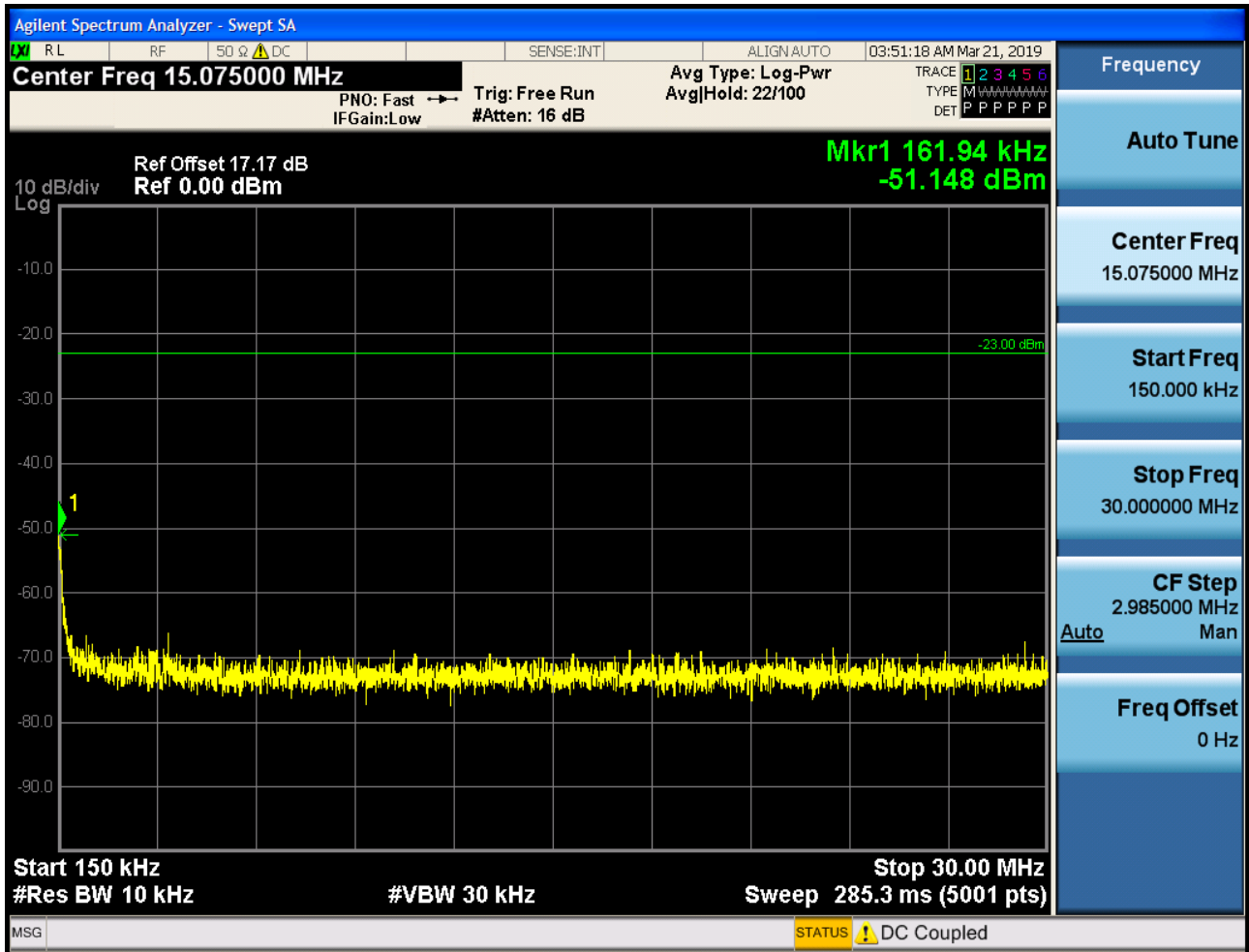


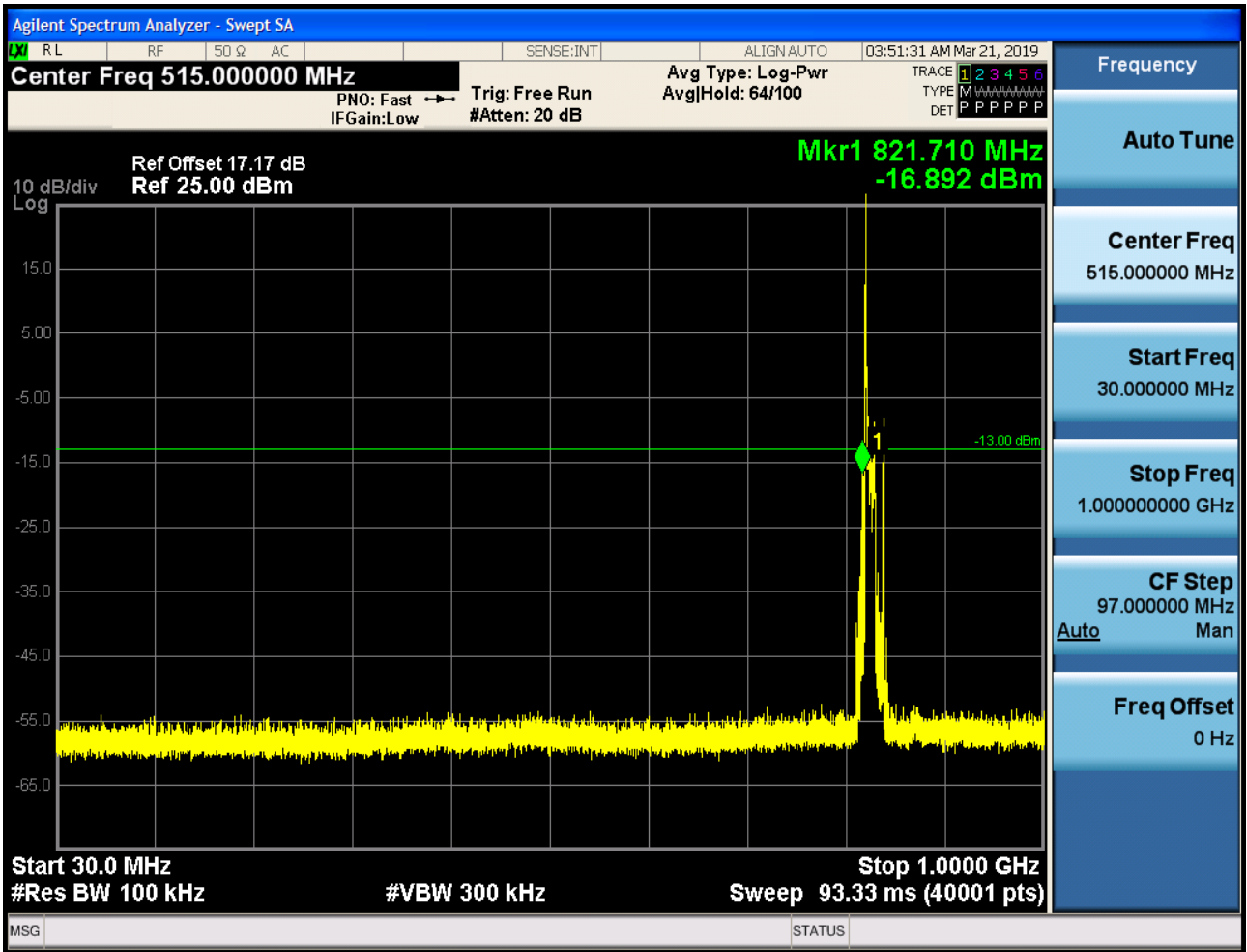
6.2.1.2.4 Test Bandwidth = 10

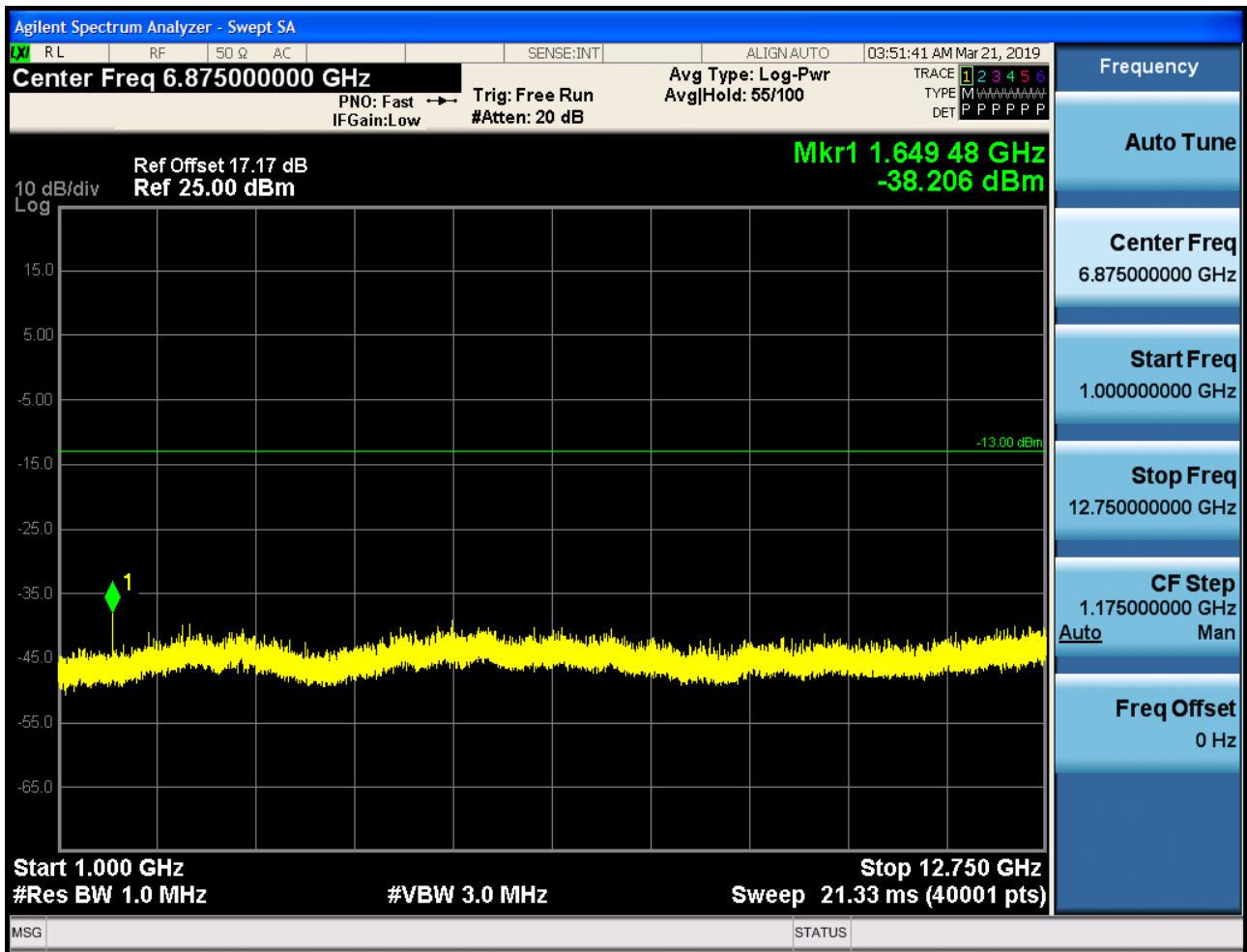
6.2.1.2.4.1 Test Channel = LCH

6.2.1.2.4.1.1 Test RB = RB1#0



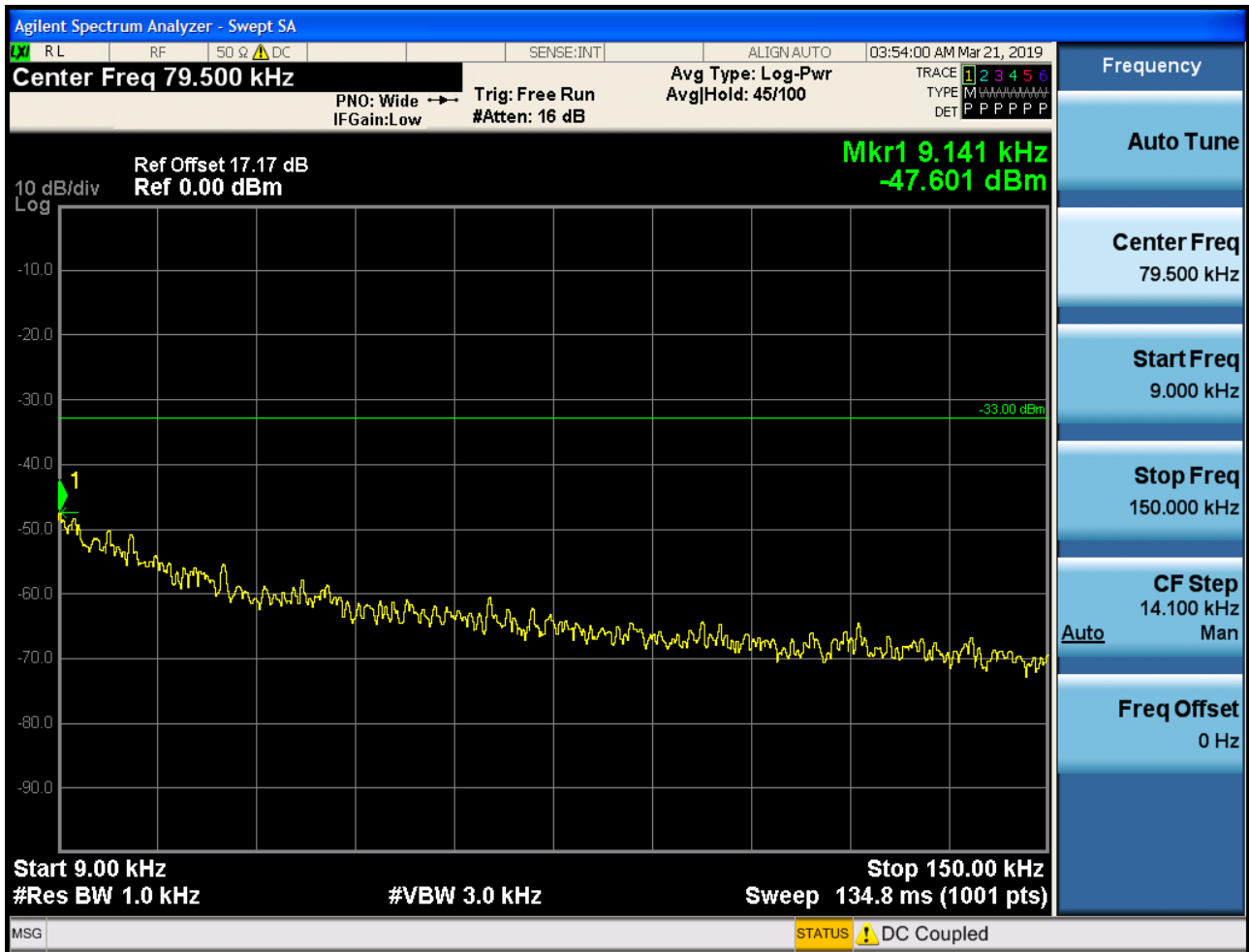


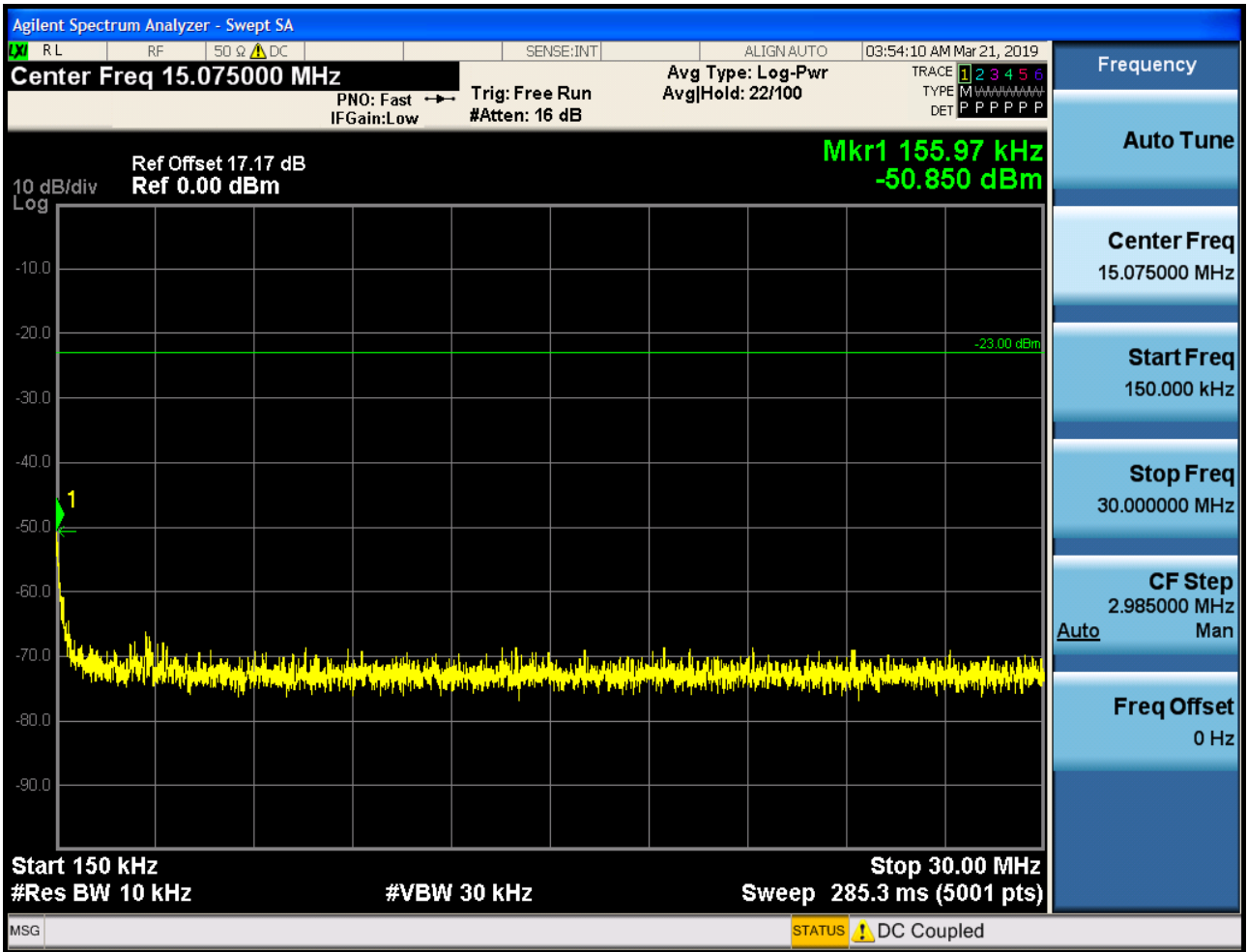


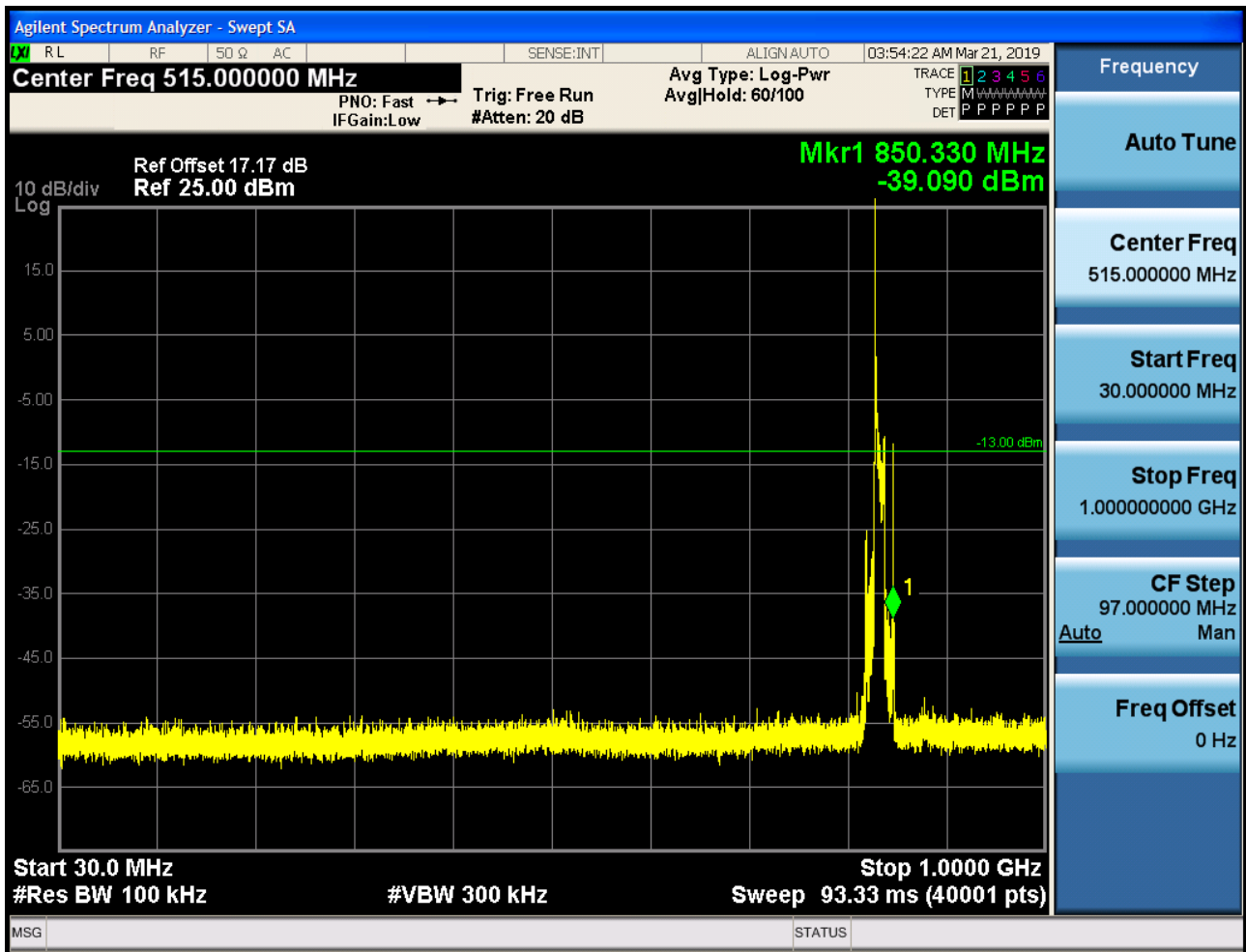


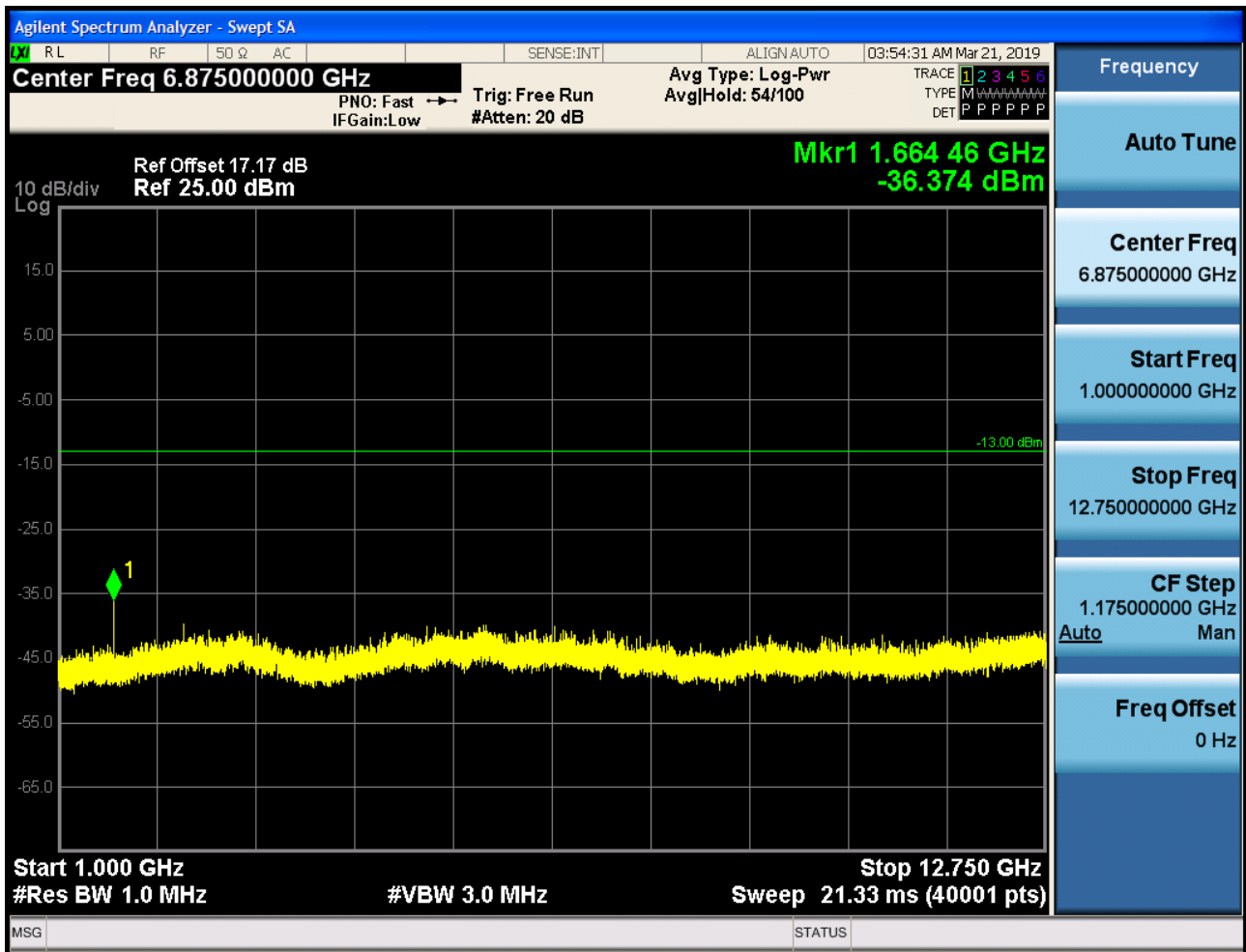
6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0



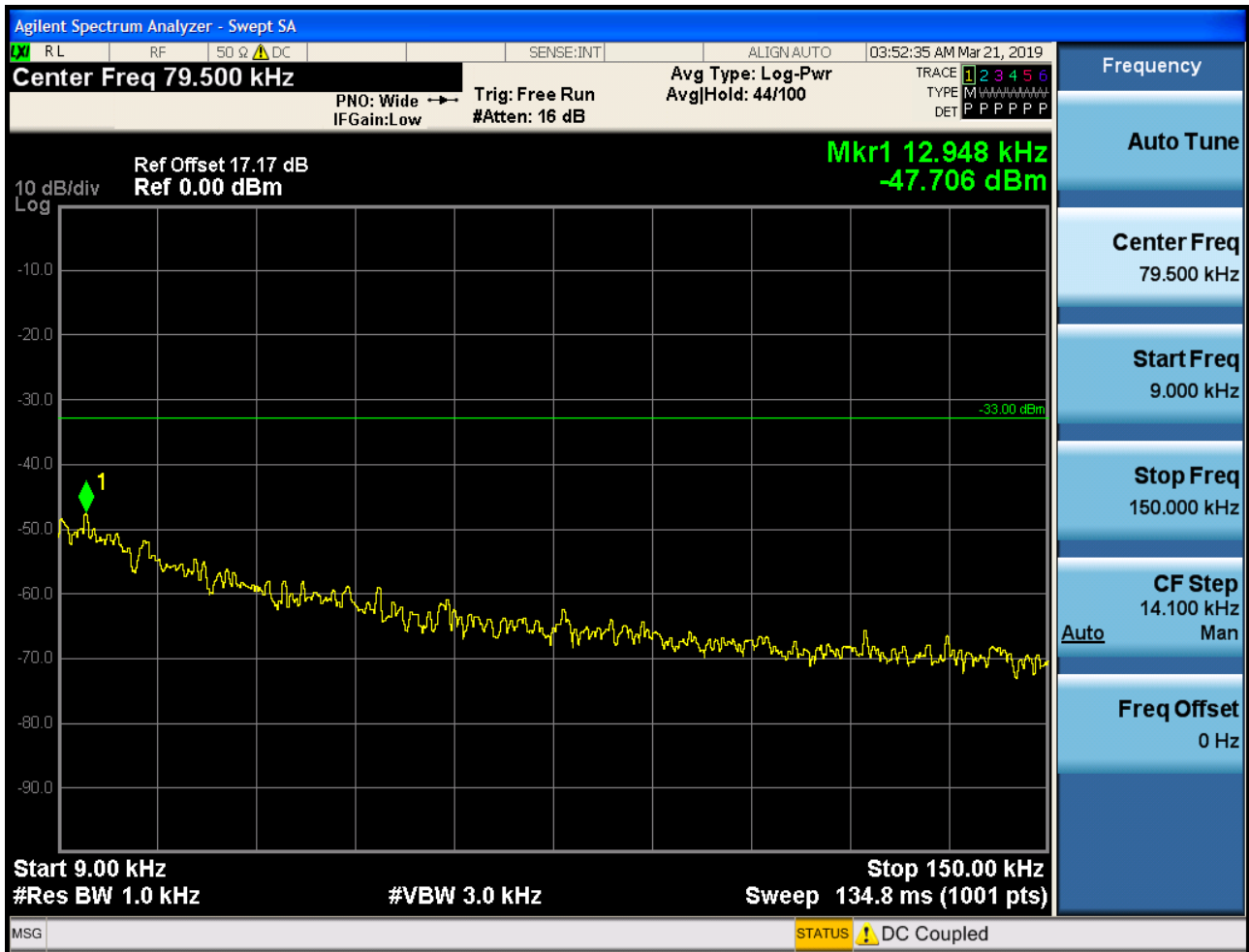


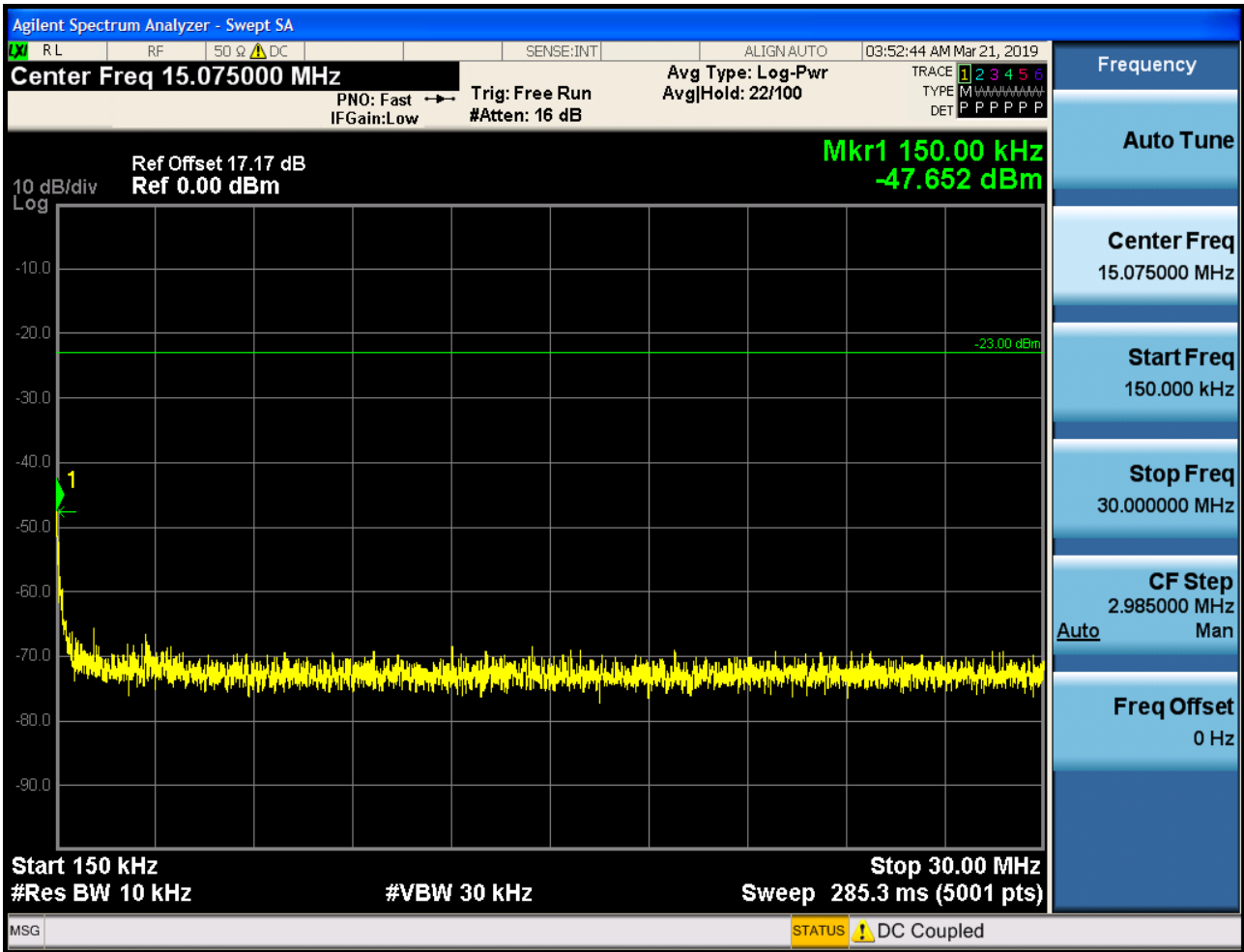


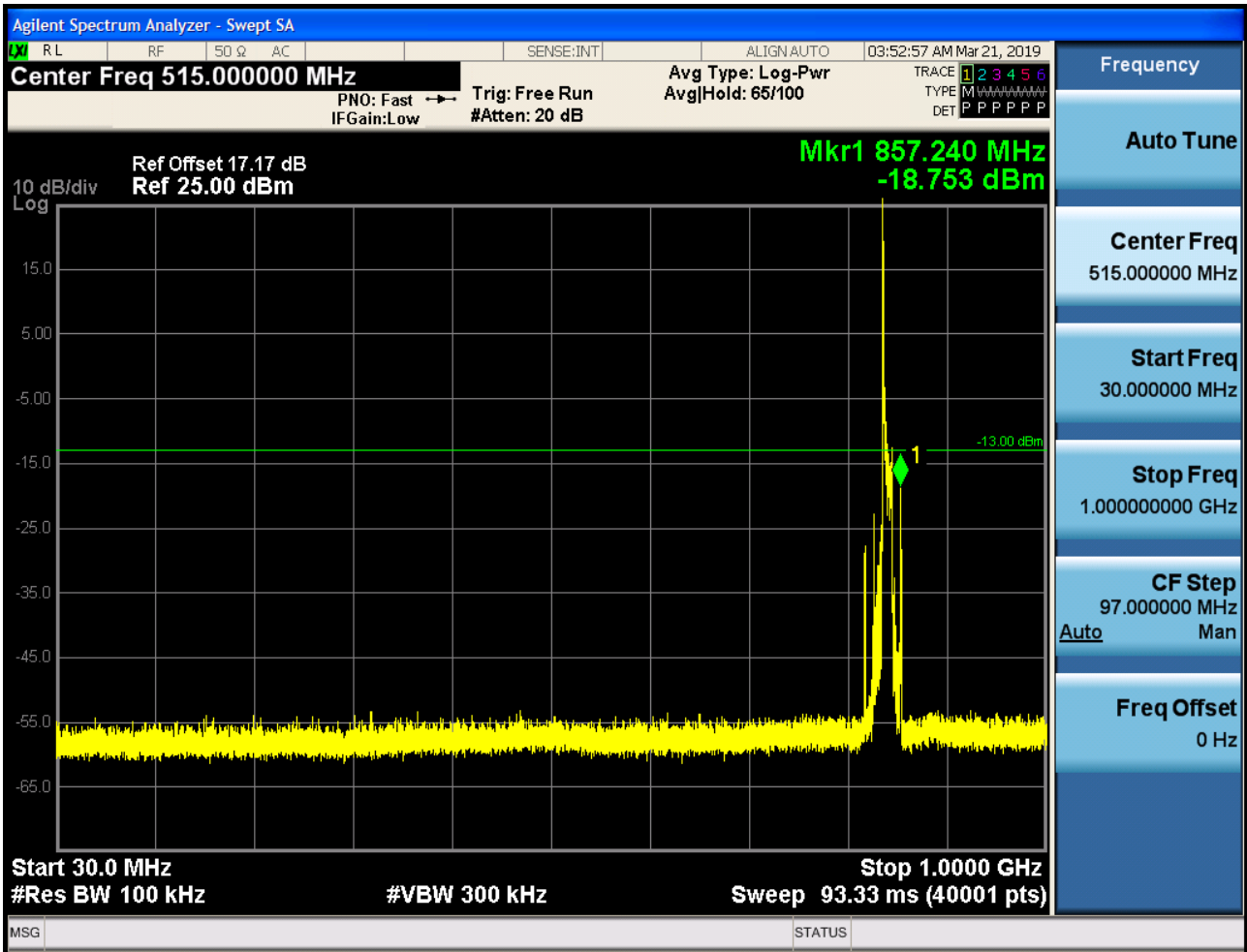


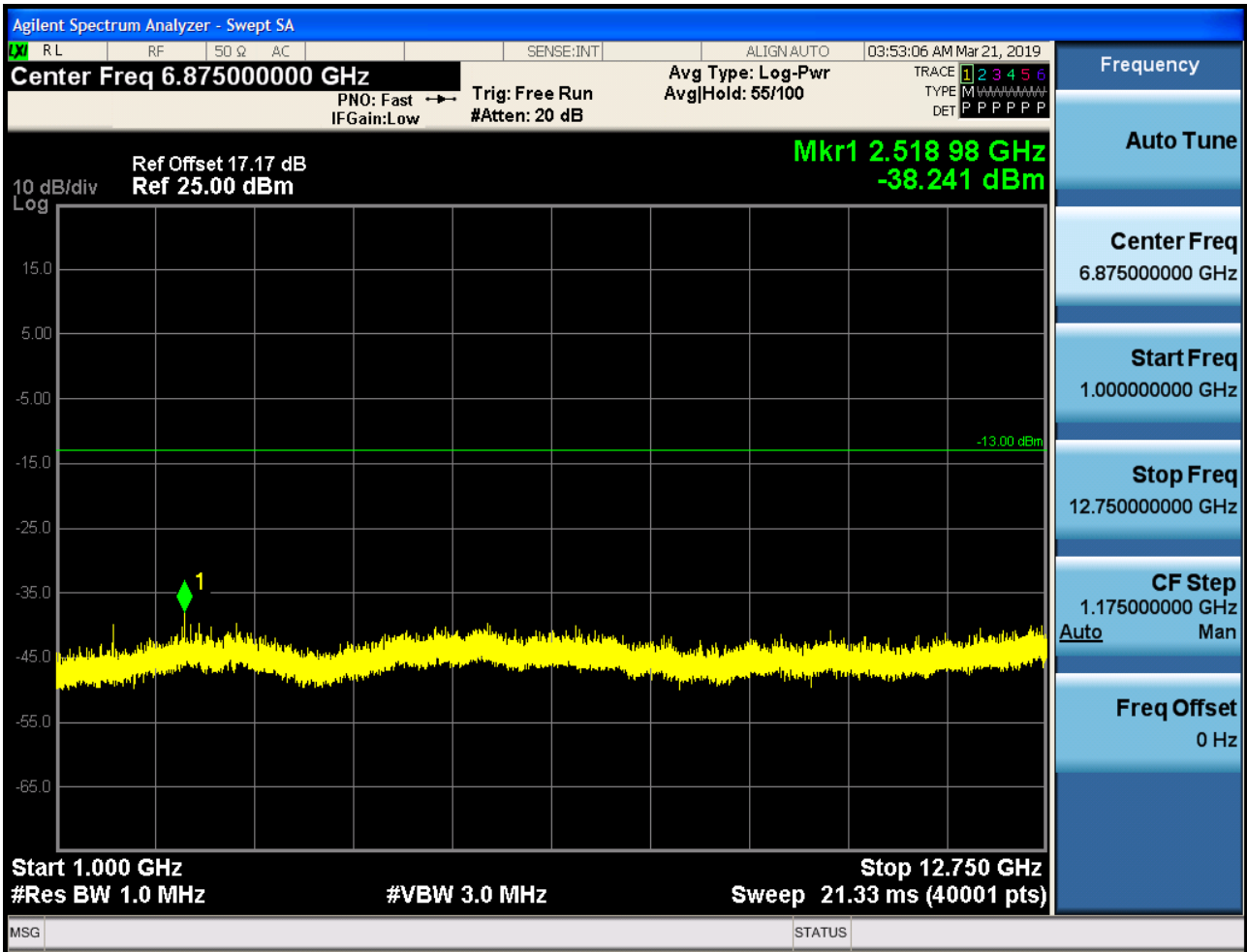
6.2.1.2.4.3 Test Channel = HCH

6.2.1.2.4.3.1 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, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 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

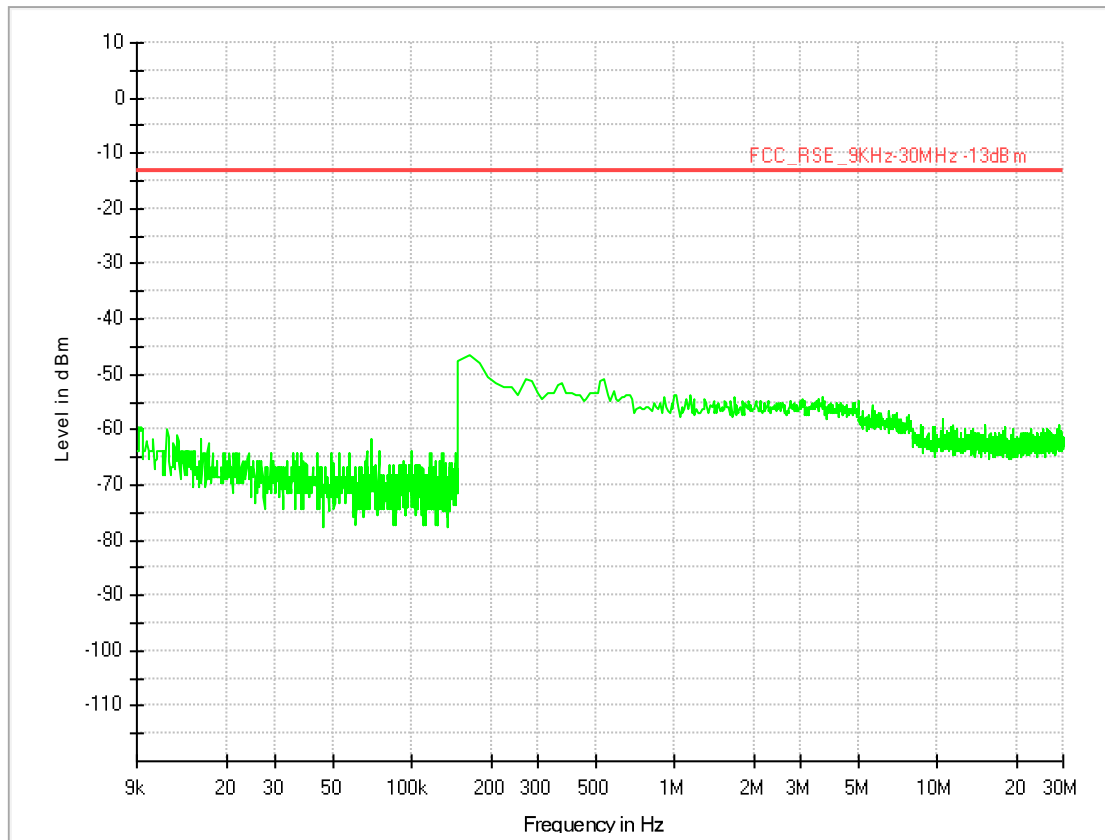
Part I - Test Plots

7.1 For LTE

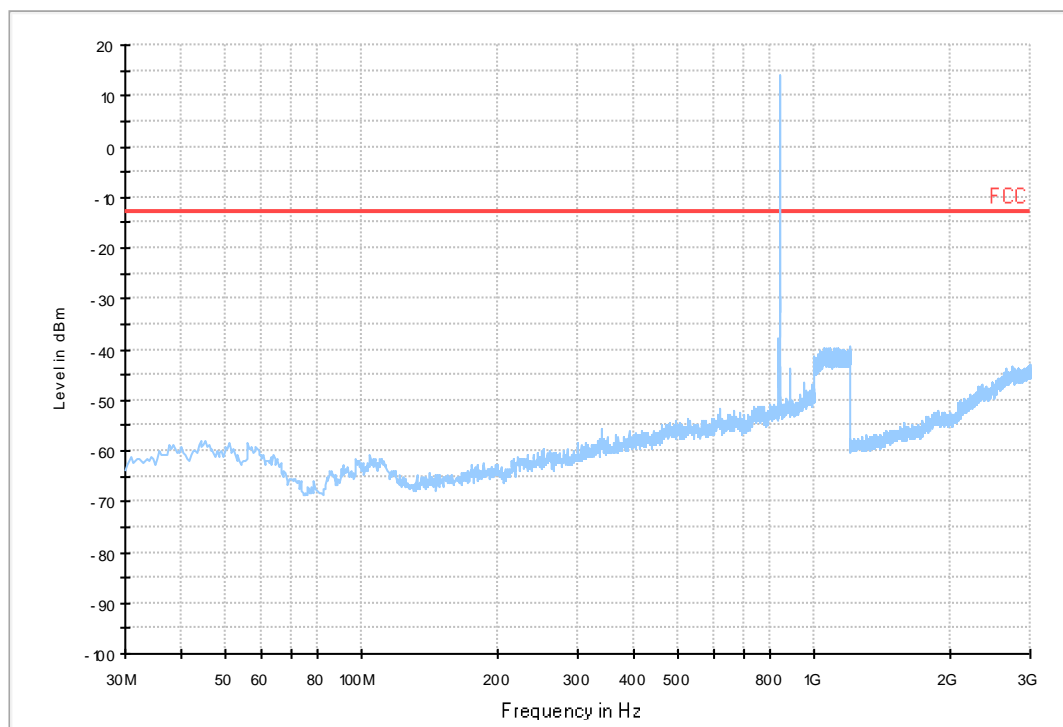
7.1.1 Test Band = Band5

7.1.1.1 Test Bandwidth = 1.4

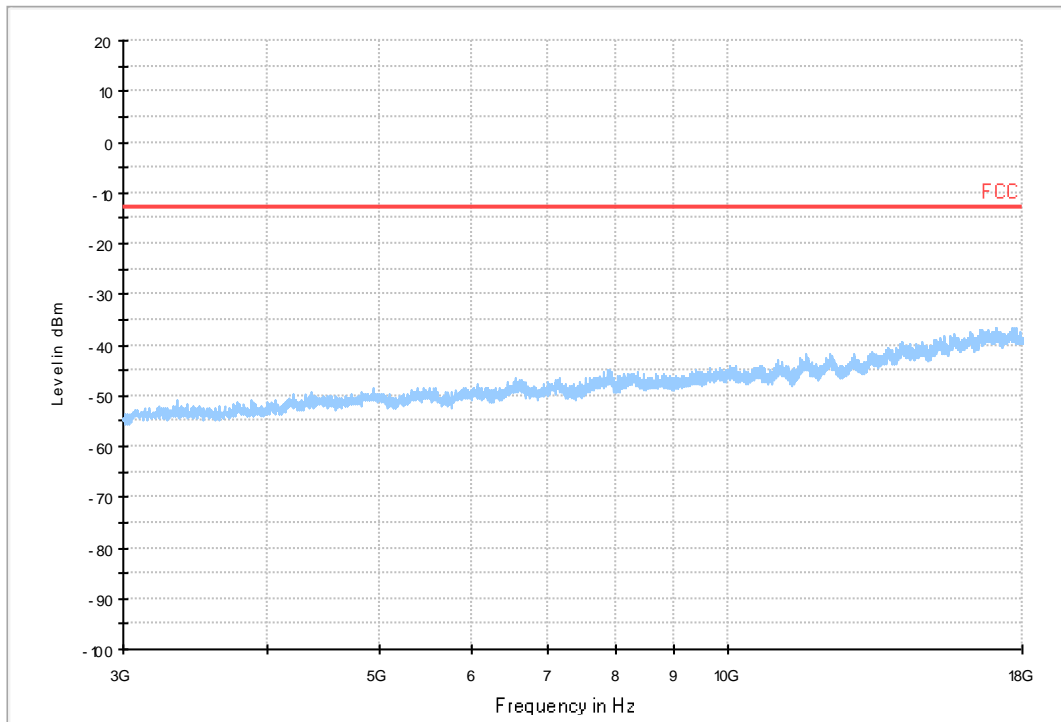
Band5/TM1_Ant1



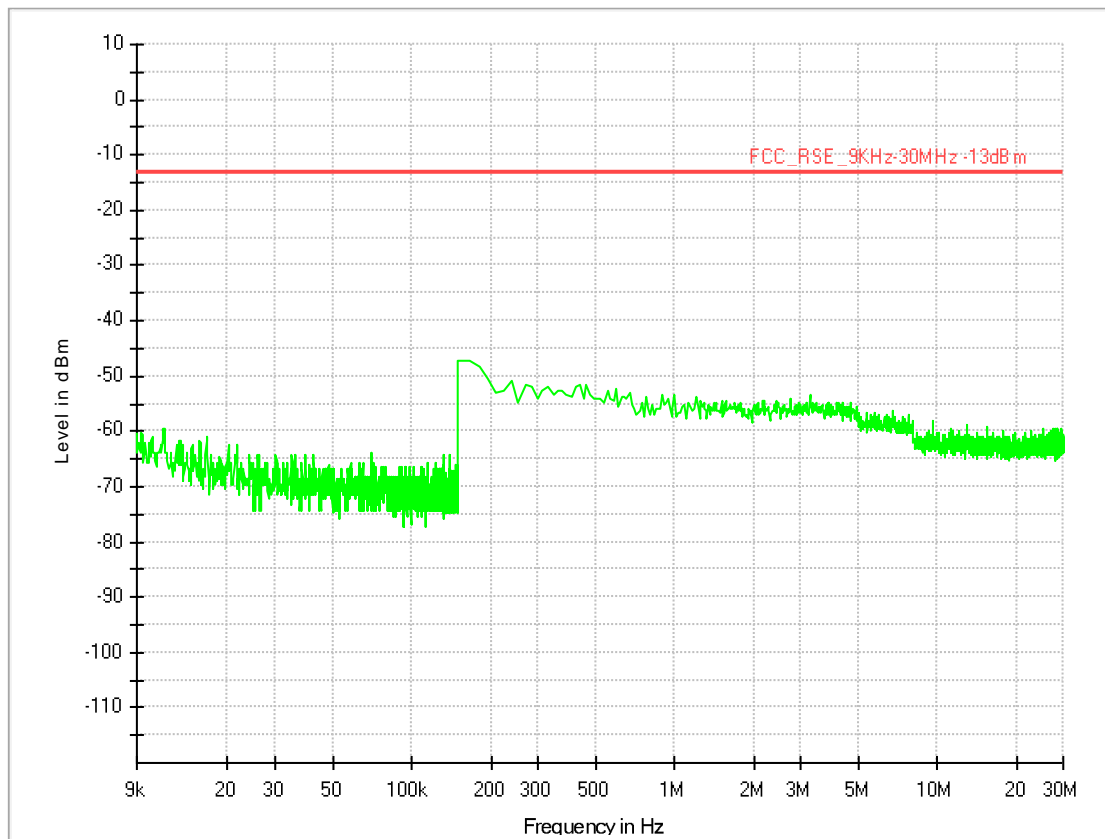
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



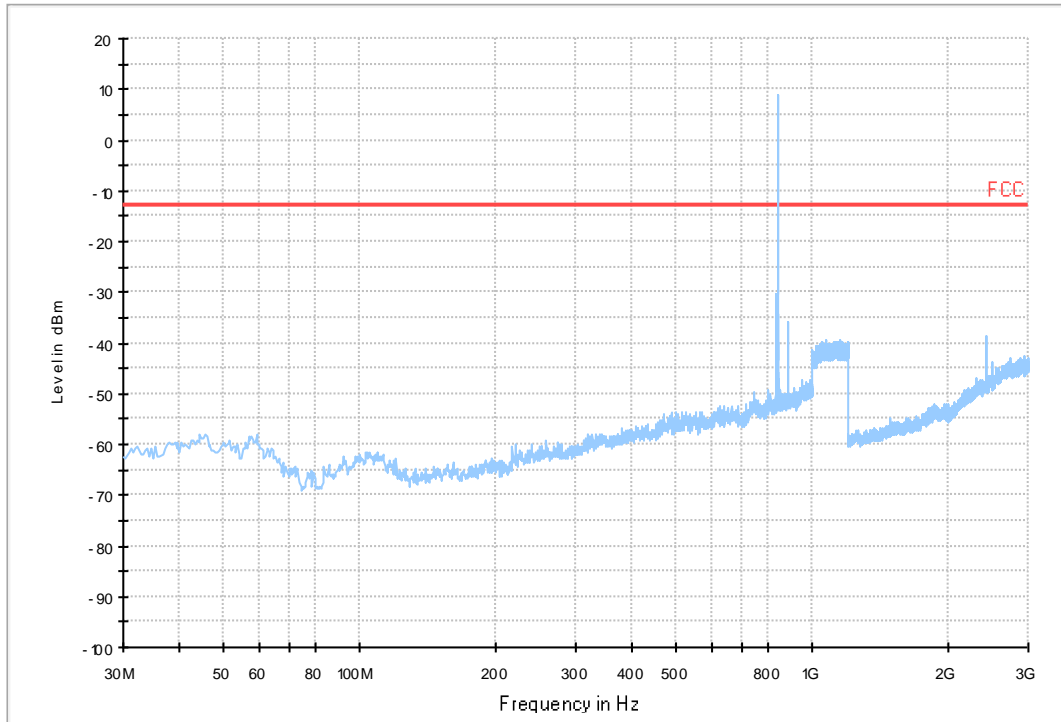
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



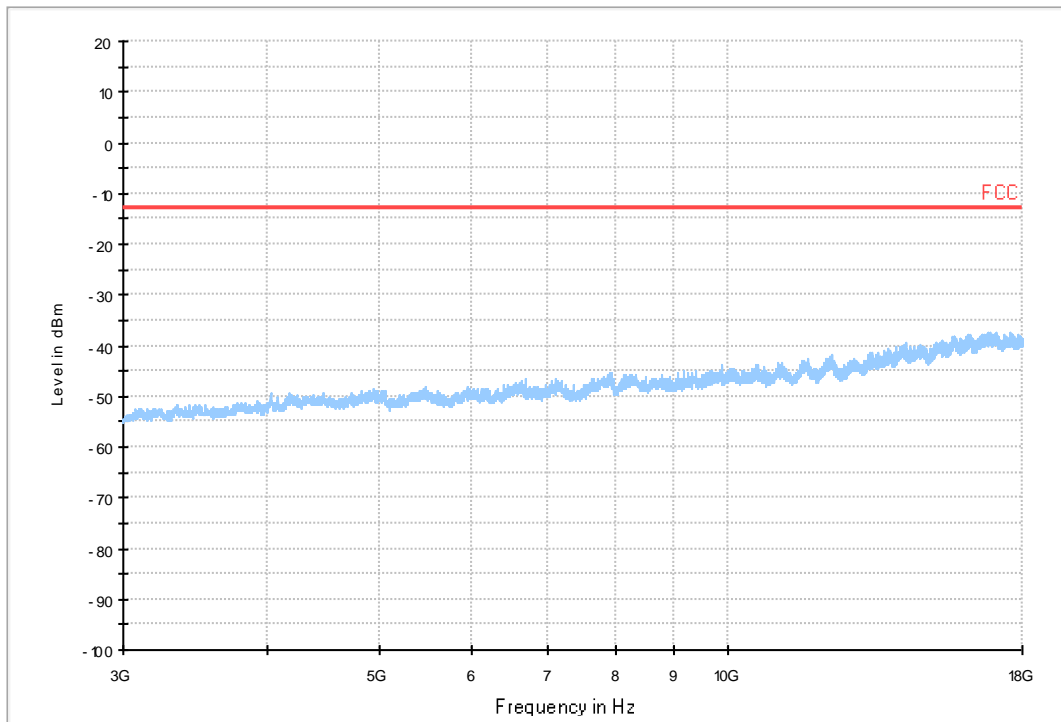
Band5/TM1_Ant2



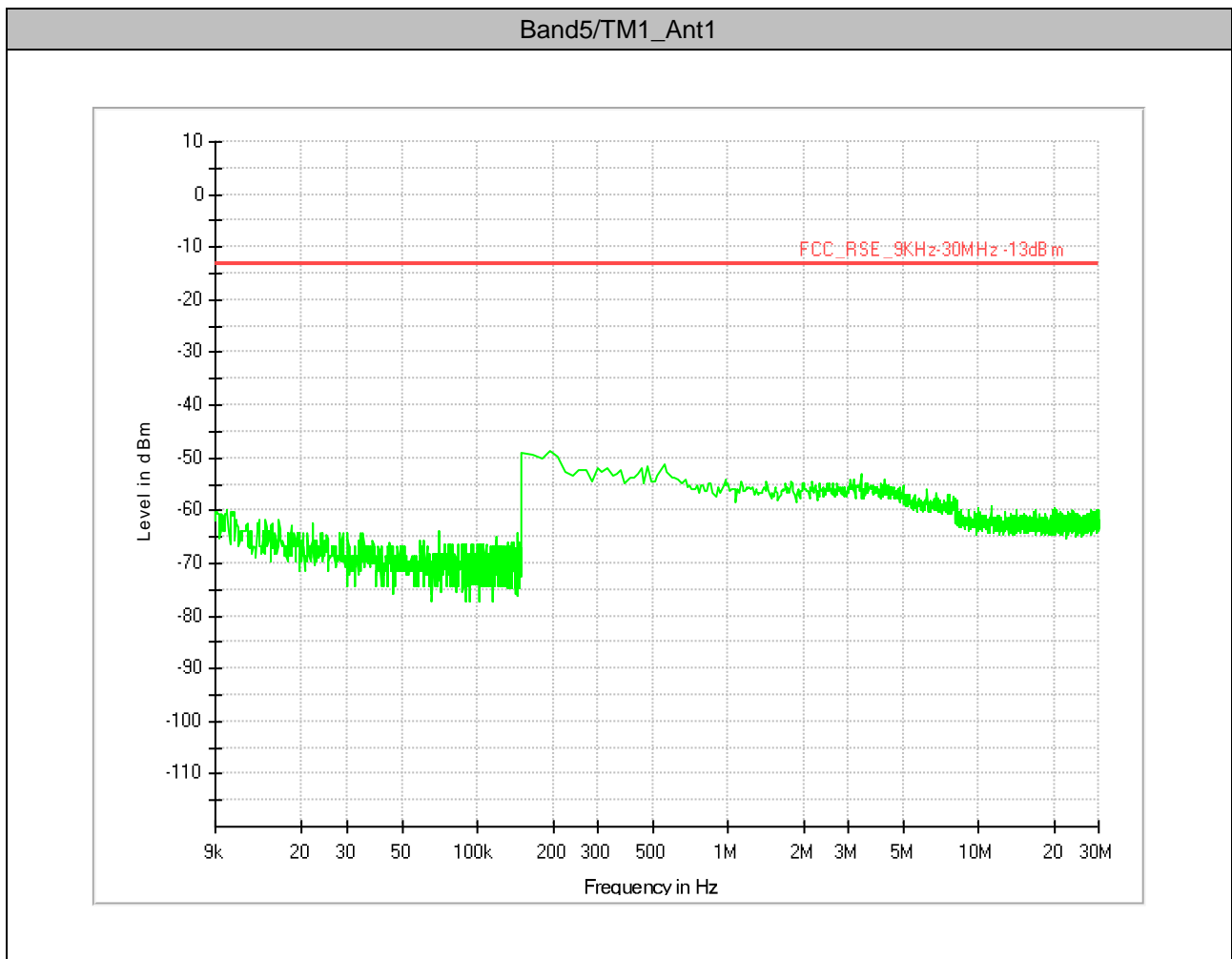
LTE FDD R SE-TX-DIRECTOR BELOW 1G_L



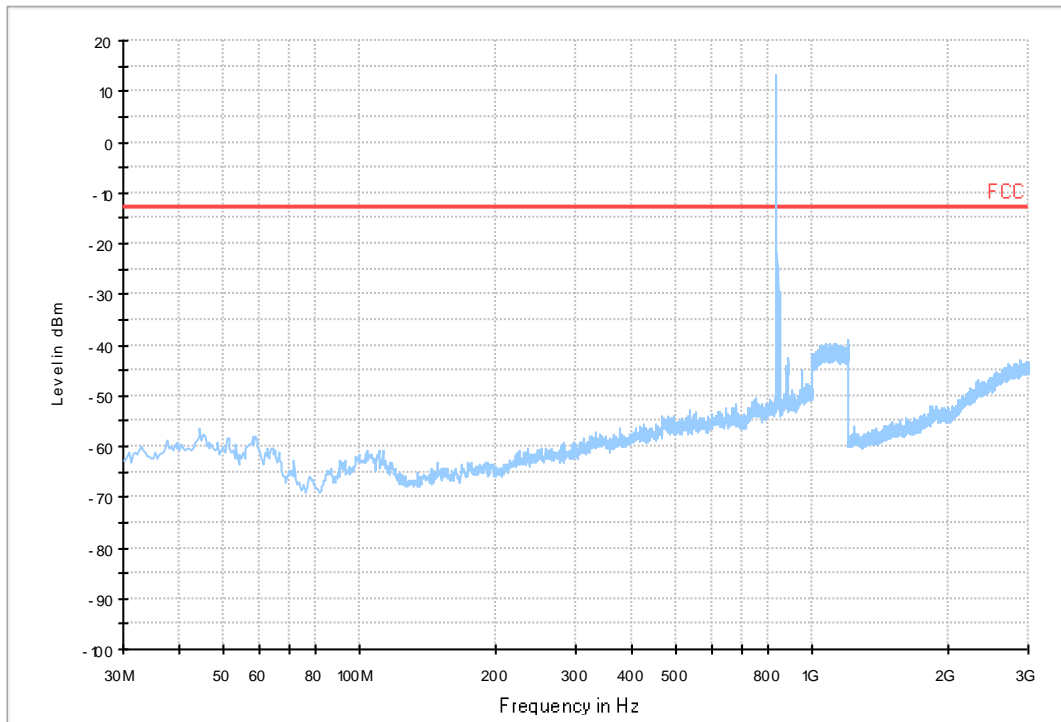
LTE FDD R SE-TX-DIRECTOR BELOW 1G_H



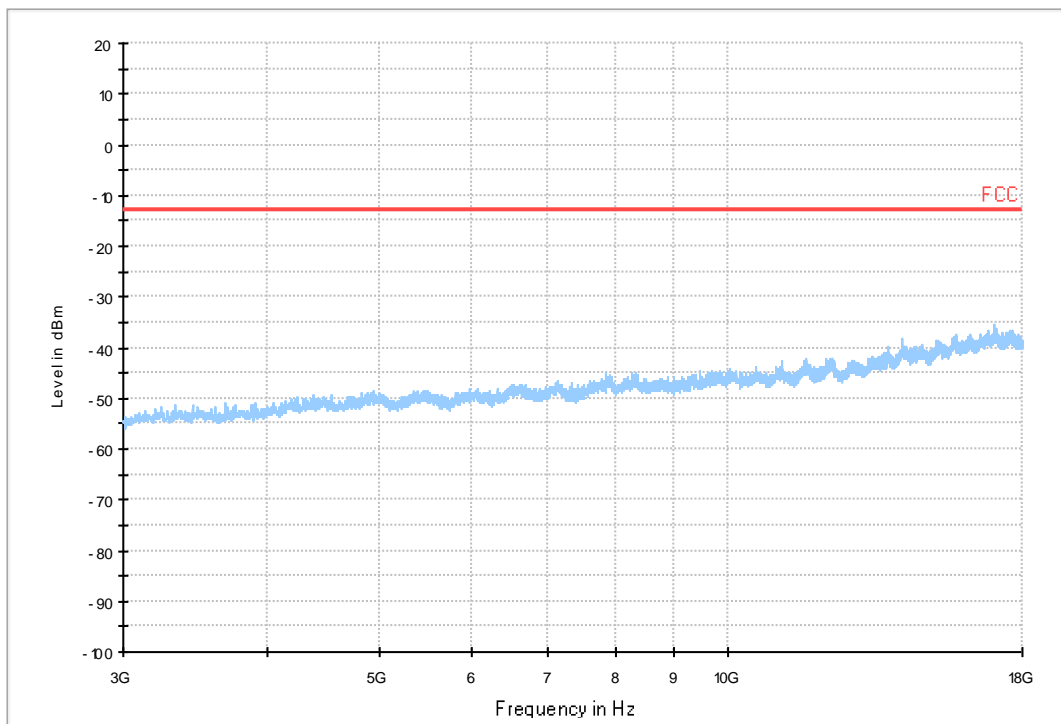
7.1.1.2 Test Bandwidth = 10



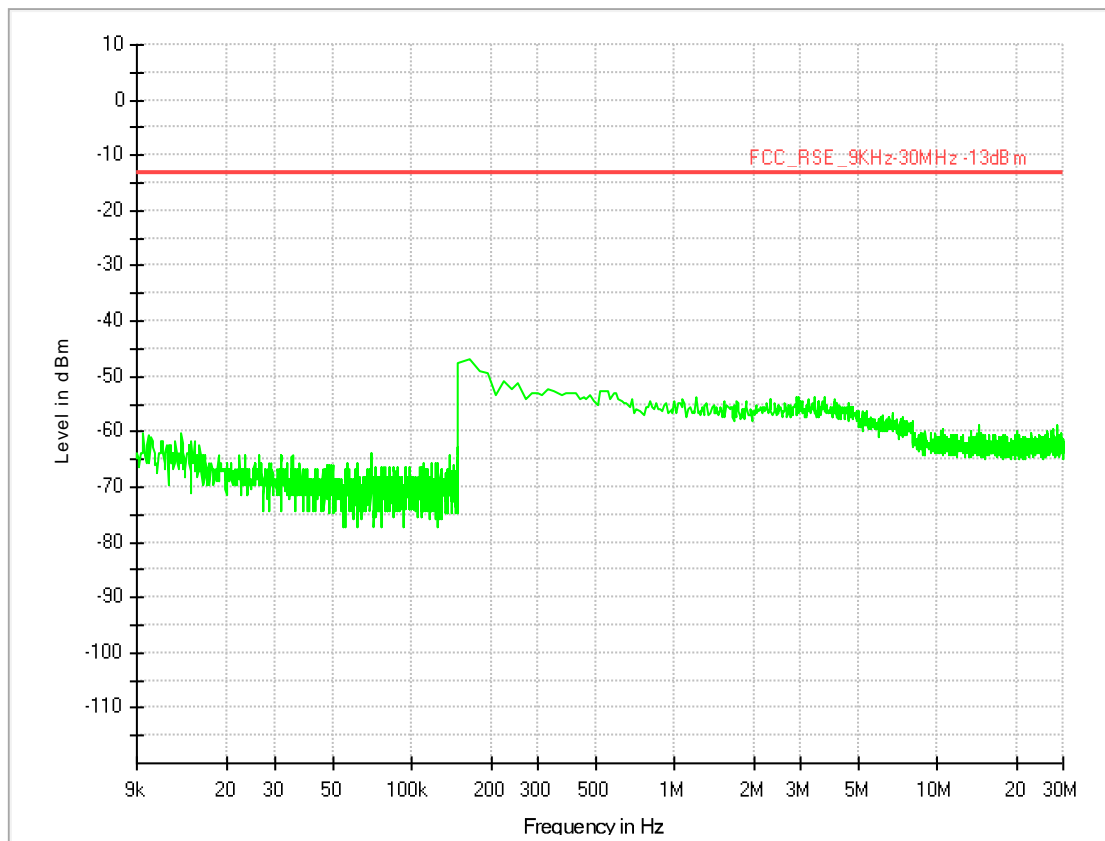
LTE FDD R SE-TX-DIRECTOR BELOW 1G_L



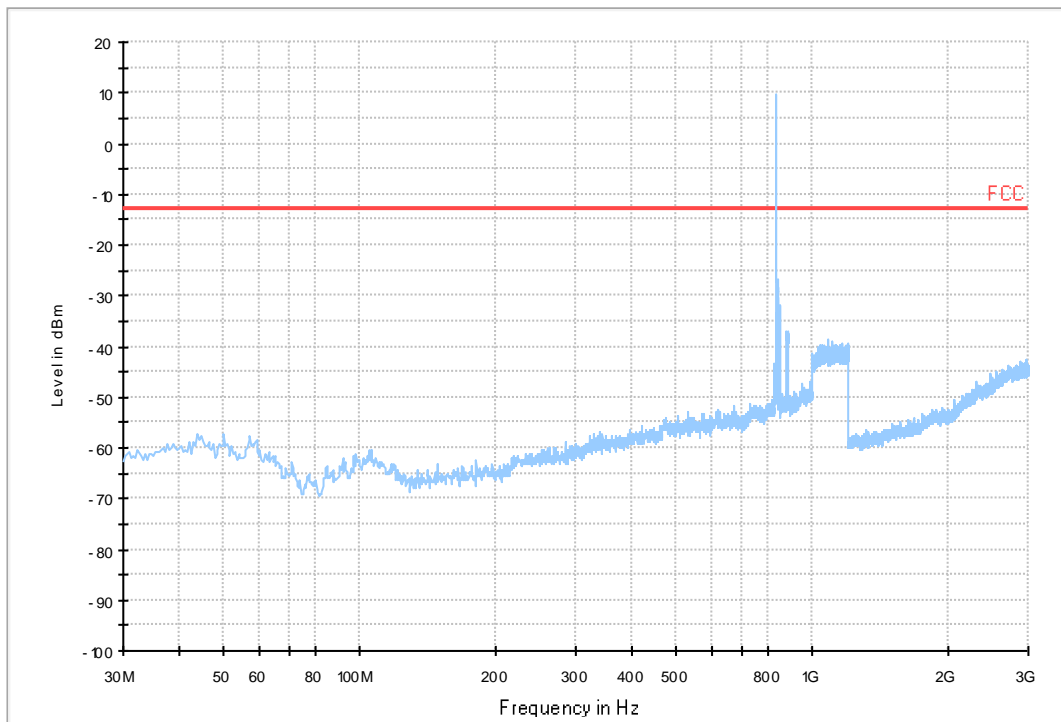
LTE FDD R SE-TX-DIRECTOR BELOW 1G_H

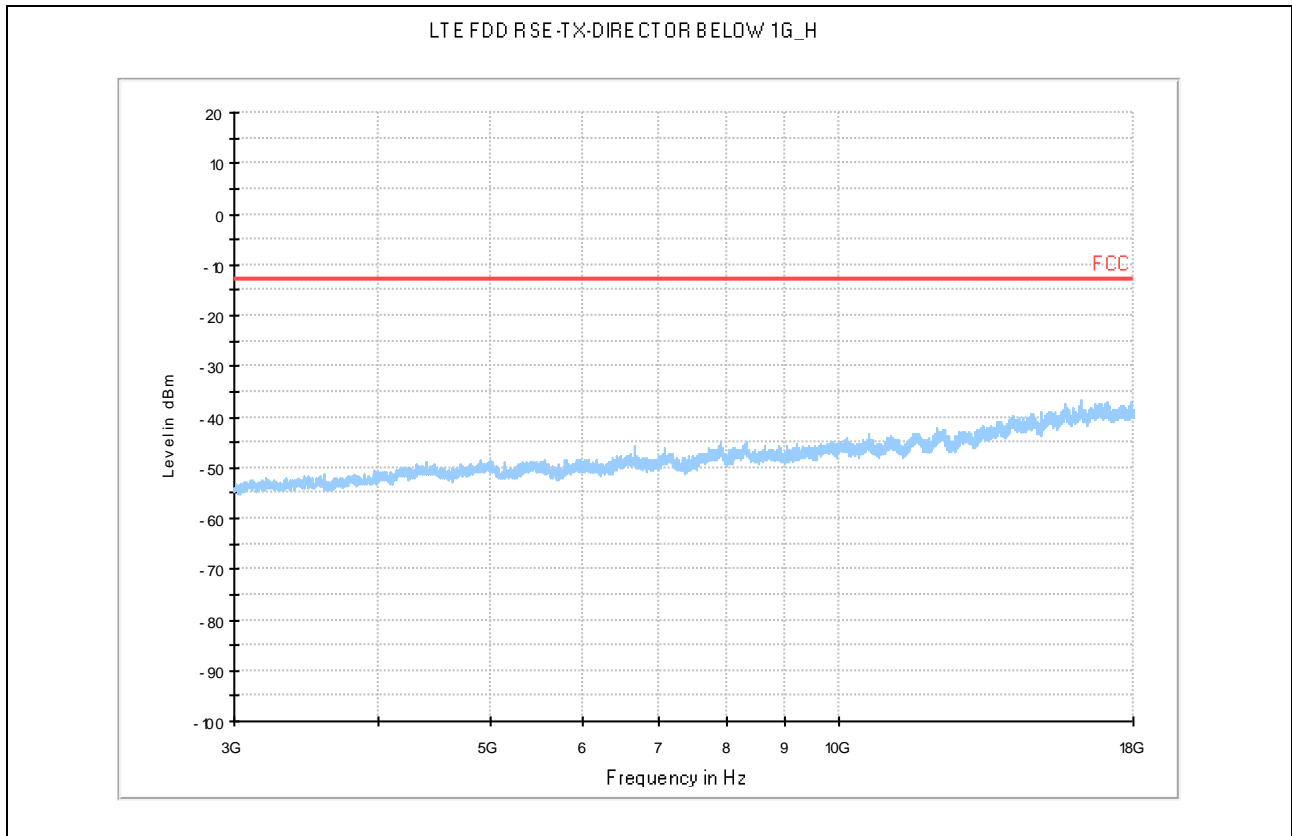


Band5/TM1_Ant2



LTE FDD RSE-TX-DIRECT OR BELOW 1G_L





8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band5	LTE/TM1	1.4	LCH	TN	VL	-18.16750	-0.02203	PASS
					VN	-9.58443	-0.01162	PASS
					VH	14.20498	0.01722	PASS
			MCH	TN	VL	6.29425	0.00752	PASS
					VN	3.06129	0.00366	PASS
					VH	-6.33717	-0.00758	PASS
			HCH	TN	VL	10.32829	0.01218	PASS
					VN	8.84056	0.01042	PASS
					VH	-5.06401	-0.00597	PASS
		3	LCH	TN	VL	-1.48773	-0.00180	PASS
					VN	1.80244	0.00218	PASS
					VH	-3.08990	-0.00374	PASS
			MCH	TN	VL	-0.40054	-0.00048	PASS
					VN	-1.35899	-0.00162	PASS
					VH	-8.05378	-0.00963	PASS
			HCH	TN	VL	-1.35899	-0.00160	PASS
					VN	0.07153	0.00008	PASS
					VH	-1.23024	-0.00145	PASS
		5	LCH	TN	VL	1.65939	0.00201	PASS
					VN	5.42164	0.00656	PASS
					VH	1.08719	0.00132	PASS
			MCH	TN	VL	5.73635	0.00686	PASS
					VN	27.55165	0.03294	PASS
					VH	0.50068	0.00060	PASS
			HCH	TN	VL	1.41621	0.00167	PASS
					VN	0.02861	0.00003	PASS
					VH	-2.23160	-0.00264	PASS
10	LCH	TN	VL	-0.71526	-0.00086	PASS		
			VN	-1.40190	-0.00169	PASS		
			VH	4.03404	0.00487	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2		MCH	TN	VL	-2.26021	-0.00270	PASS
					VN	7.43866	0.00889	PASS
					VH	3.53336	0.00422	PASS
			HCH	TN	VL	-0.07153	-0.00008	PASS
					VN	-1.25885	-0.00149	PASS
					VH	-1.65939	-0.00197	PASS
		1.4	LCH	TN	VL	8.76904	0.01063	PASS
					VN	-1.95980	-0.00238	PASS
					VH	-7.43866	-0.00902	PASS
			MCH	TN	VL	-2.17438	-0.00260	PASS
					VN	14.59122	0.01744	PASS
					VH	12.57420	0.01503	PASS
			HCH	TN	VL	-6.22272	-0.00734	PASS
					VN	14.50539	0.01710	PASS
					VH	-3.31879	-0.00391	PASS
		3	LCH	TN	VL	3.70503	0.00449	PASS
					VN	-3.30448	-0.00400	PASS
					VH	1.95980	0.00237	PASS
			MCH	TN	VL	-4.39167	-0.00525	PASS
					VN	-1.44482	-0.00173	PASS
					VH	-2.71797	-0.00325	PASS
			HCH	TN	VL	-1.14441	-0.00135	PASS
					VN	1.14441	0.00135	PASS
					VH	-2.67506	-0.00316	PASS
		5	LCH	TN	VL	0.65804	0.00080	PASS
					VN	-0.91553	-0.00111	PASS
					VH	1.20163	0.00145	PASS
			MCH	TN	VL	-3.08990	-0.00369	PASS
					VN	-2.44618	-0.00292	PASS
					VH	-1.47343	-0.00176	PASS
			HCH	TN	VL	2.31743	0.00274	PASS
					VN	0.87261	0.00103	PASS
					VH	-0.50068	-0.00059	PASS
		10	LCH	TN	VL	3.31879	0.00400	PASS
					VN	-1.44482	-0.00174	PASS
					VH	2.38895	0.00288	PASS
			MCH	TN	VL	-2.01702	-0.00241	PASS
					VN	8.56876	0.01024	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	1.01566	0.00121	PASS
			HCH	TN	VL	0.48637	0.00058	PASS
					VN	-4.54903	-0.00539	PASS
					VH	-1.73092	-0.00205	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	3.63350	0.00441	PASS		
					-20	-14.34803	-0.01740	PASS		
					-10	-10.71453	-0.01299	PASS		
					0	6.60896	0.00801	PASS		
					10	23.38886	0.02836	PASS		
					20	-9.58443	-0.01162	PASS		
					30	-11.48701	-0.01393	PASS		
					40	-2.57492	-0.00312	PASS		
			50	-8.58307	-0.01041	PASS				
					MCH	VN	-30	1.50204	0.00180	PASS
							-20	-12.74586	-0.01524	PASS
							-10	-19.54079	-0.02336	PASS
							0	-0.47207	-0.00056	PASS
							10	16.73698	0.02001	PASS
							20	3.06129	0.00366	PASS
							30	5.85079	0.00699	PASS
							40	-6.60896	-0.00790	PASS
					50	-0.14305	-0.00017	PASS		
					HCH	VN	-30	0.54359	0.00064	PASS
							-20	0.21458	0.00025	PASS
							-10	8.51154	0.01003	PASS
							0	20.67089	0.02437	PASS
							10	0.65804	0.00078	PASS
							20	8.84056	0.01042	PASS
				30			12.45975	0.01469	PASS	
				40			-0.04292	-0.00005	PASS	
				50	0.68665	0.00081	PASS			
				3	LCH	VN	-30	0.67234	0.00081	PASS
							-20	1.51634	0.00184	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-10	2.98977	0.00362	PASS	
					0	-0.55790	-0.00068	PASS	
					10	5.69344	0.00690	PASS	
					20	1.80244	0.00218	PASS	
					30	0.55790	0.00068	PASS	
					40	0.44346	0.00054	PASS	
					50	2.01702	0.00244	PASS	
			MCH	VN	-30	3.51906	0.00421	PASS	
					-20	-0.61512	-0.00074	PASS	
					-10	-0.34332	-0.00041	PASS	
					0	-8.11100	-0.00970	PASS	
					10	8.78334	0.01050	PASS	
					20	-1.35899	-0.00162	PASS	
					30	-1.00136	-0.00120	PASS	
			HCH	VN	-30	-1.14441	-0.00135	PASS	
					-20	-0.37193	-0.00044	PASS	
					-10	-0.57220	-0.00068	PASS	
					0	-0.48637	-0.00057	PASS	
					10	-2.87533	-0.00339	PASS	
					20	0.07153	0.00008	PASS	
					30	-0.38624	-0.00046	PASS	
			5	LCH	VN	-30	1.75953	0.00213	PASS
						-20	-1.00136	-0.00121	PASS
						-10	-4.52042	-0.00547	PASS
						0	1.94550	0.00235	PASS
						10	-0.80109	-0.00097	PASS
						20	5.42164	0.00656	PASS
						30	-0.38624	-0.00047	PASS
						40	-1.13010	-0.00137	PASS
						50	-1.53065	-0.00185	PASS
						MCH	VN	-30	-0.75817
			-20	9.34124	0.01117			PASS	
			-10	15.97881	0.01910			PASS	
			0	11.41548	0.01365			PASS	
			10	24.43314	0.02921			PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					20	27.55165	0.03294	PASS		
					30	19.09733	0.02283	PASS		
					40	-1.61648	-0.00193	PASS		
					50	3.39031	0.00405	PASS		
			HCH	VN	-30	0.94414	0.00112	PASS		
					-20	1.10149	0.00130	PASS		
					-10	1.53065	0.00181	PASS		
					0	-0.41485	-0.00049	PASS		
					10	1.04427	0.00123	PASS		
					20	0.02861	0.00003	PASS		
					30	3.29018	0.00389	PASS		
					40	0.75817	0.00090	PASS		
					50	0.42915	0.00051	PASS		
					LCH	VN	-30	3.43323	0.00414	PASS
							-20	-1.88827	-0.00228	PASS
							-10	3.70503	0.00447	PASS
			0	-4.19140			-0.00506	PASS		
			10	-0.72956			-0.00088	PASS		
			20	-1.40190			-0.00169	PASS		
			30	-3.70503			-0.00447	PASS		
		40	-0.40054	-0.00048			PASS			
		MCH	VN	50	-2.91824	-0.00352	PASS			
				-30	0.12875	0.00015	PASS			
				-20	-4.03404	-0.00482	PASS			
				-10	-7.03812	-0.00841	PASS			
				0	5.24998	0.00628	PASS			
				10	15.49244	0.01852	PASS			
				20	7.43866	0.00889	PASS			
				30	5.30720	0.00634	PASS			
		HCH	VN	40	7.15256	0.00855	PASS			
				50	3.44753	0.00412	PASS			
				-30	-1.17302	-0.00139	PASS			
				-20	4.62055	0.00547	PASS			
				-10	5.82218	0.00690	PASS			
				0	-2.24590	-0.00266	PASS			
				10	-1.87397	-0.00222	PASS			
				20	-1.25885	-0.00149	PASS			
							30	-5.90801	-0.00700	PASS
							40	-8.25405	-0.00978	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	50	-0.10014	-0.00012	PASS
					-30	-4.14848	-0.00503	PASS
					-20	-10.97202	-0.01330	PASS
					-10	8.26836	0.01003	PASS
					0	-14.31942	-0.01736	PASS
					10	1.37329	0.00167	PASS
					20	-1.95980	-0.00238	PASS
					30	19.56940	0.02373	PASS
					40	-1.71661	-0.00208	PASS
			50	-3.27587	-0.00397	PASS		
			MCH	VN	-30	17.69543	0.02115	PASS
					-20	3.10421	0.00371	PASS
					-10	-33.11634	-0.03959	PASS
					0	-10.91480	-0.01305	PASS
					10	-7.85351	-0.00939	PASS
					20	14.59122	0.01744	PASS
					30	-0.95844	-0.00115	PASS
					40	-4.30584	-0.00515	PASS
		50			-8.44002	-0.01009	PASS	
		HCH	VN	-30	-11.57284	-0.01364	PASS	
				-20	12.87460	0.01518	PASS	
				-10	-9.58443	-0.01130	PASS	
				0	8.92639	0.01052	PASS	
				10	-23.94676	-0.02823	PASS	
				20	14.50539	0.01710	PASS	
				30	-9.59873	-0.01132	PASS	
				40	2.50339	0.00295	PASS	
				50	9.77039	0.01152	PASS	
		3	LCH	VN	-30	1.58787	0.00192	PASS
					-20	0.60081	0.00073	PASS
					-10	-9.31263	-0.01128	PASS
					0	-3.16143	-0.00383	PASS
					10	3.06129	0.00371	PASS
					20	-3.30448	-0.00400	PASS
					30	-3.96252	-0.00480	PASS
					40	-0.80109	-0.00097	PASS
50	3.40462				0.00412	PASS		
MCH	VN		-30	2.81811	0.00337	PASS		
			-20	1.31607	0.00157	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-10	0.30041	0.00036	PASS		
					0	-1.88827	-0.00226	PASS		
					10	509.41940	0.60899	PASS		
					20	-1.44482	-0.00173	PASS		
					30	1.30177	0.00156	PASS		
					40	-10.18524	-0.01218	PASS		
					50	7.08103	0.00847	PASS		
			HCH	VN	-30	-1.43051	-0.00169	PASS		
					-20	1.05858	0.00125	PASS		
					-10	0.60081	0.00071	PASS		
					0	-1.64509	-0.00194	PASS		
					10	-3.13282	-0.00370	PASS		
					20	1.14441	0.00135	PASS		
					30	-0.92983	-0.00110	PASS		
		LCH	VN	-30	3.14712	0.00381	PASS			
				-20	-0.62943	-0.00076	PASS			
				-10	0.05722	0.00007	PASS			
				0	5.35011	0.00647	PASS			
				10	1.61648	0.00196	PASS			
				20	-0.91553	-0.00111	PASS			
				30	2.01702	0.00244	PASS			
		MCH	VN	40	1.10149	0.00133	PASS			
				50	-0.64373	-0.00078	PASS			
				-30	9.19819	0.01100	PASS			
				-20	3.31879	0.00397	PASS			
				-10	7.39574	0.00884	PASS			
				0	8.38280	0.01002	PASS			
				10	-1.71661	-0.00205	PASS			
				20	-2.44618	-0.00292	PASS			
		HCH	VN	30	-7.00951	-0.00838	PASS			
				40	15.26356	0.01825	PASS			
				50	0.92983	0.00111	PASS			
				-30	0.78678	0.00093	PASS			
				-20	4.69208	0.00554	PASS			
				-10	-2.70367	-0.00319	PASS			
				5			0	0.88692	0.00105	PASS
							10	1.80244	0.00213	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					20	0.87261	0.00103	PASS			
					30	-0.22888	-0.00027	PASS			
					40	-0.97275	-0.00115	PASS			
					50	3.59058	0.00424	PASS			
		10		LCH	VN	-30	-1.57356	-0.00190	PASS		
						-20	-0.85831	-0.00104	PASS		
						-10	2.01702	0.00243	PASS		
						0	-1.48773	-0.00179	PASS		
						10	0.24319	0.00029	PASS		
						20	-1.44482	-0.00174	PASS		
						30	-0.25749	-0.00031	PASS		
						40	-1.23024	-0.00148	PASS		
						50	0.17166	0.00021	PASS		
						MCH	VN	-30	-0.11444	-0.00014	PASS
								-20	1.87397	0.00224	PASS
								-10	0.18597	0.00022	PASS
								0	2.53200	0.00303	PASS
								10	6.32286	0.00756	PASS
								20	8.56876	0.01024	PASS
								30	8.96931	0.01072	PASS
				40	13.64708			0.01631	PASS		
				HCH	VN	50	11.91616	0.01425	PASS		
						-30	3.40462	0.00403	PASS		
						-20	6.26564	0.00742	PASS		
						-10	11.74450	0.01392	PASS		
						0	0.35763	0.00042	PASS		
						10	-9.88483	-0.01171	PASS		
						20	-4.54903	-0.00539	PASS		
						30	4.11987	0.00488	PASS		
				40	-0.38624	-0.00046	PASS				
				50	1.02997	0.00122	PASS				

END