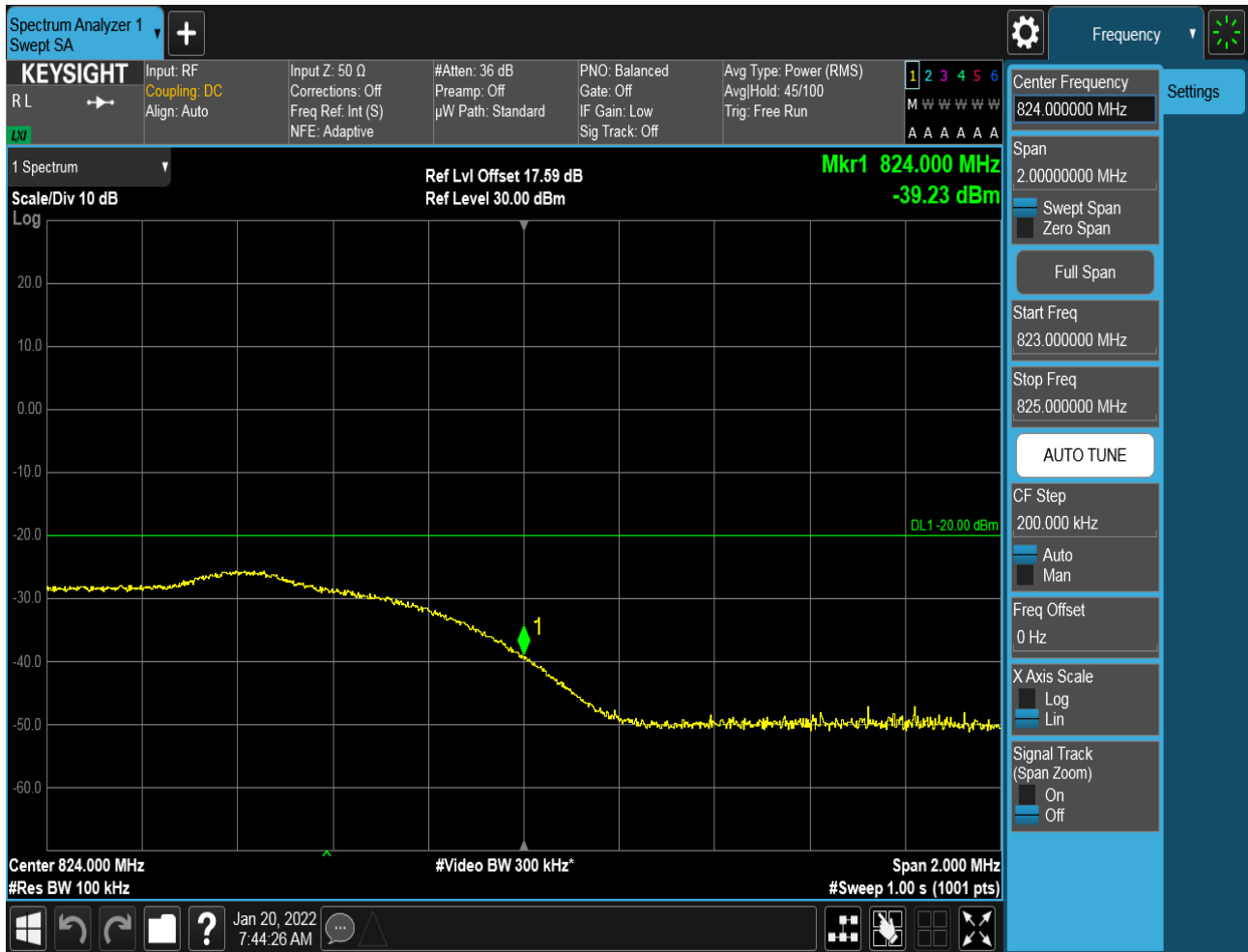




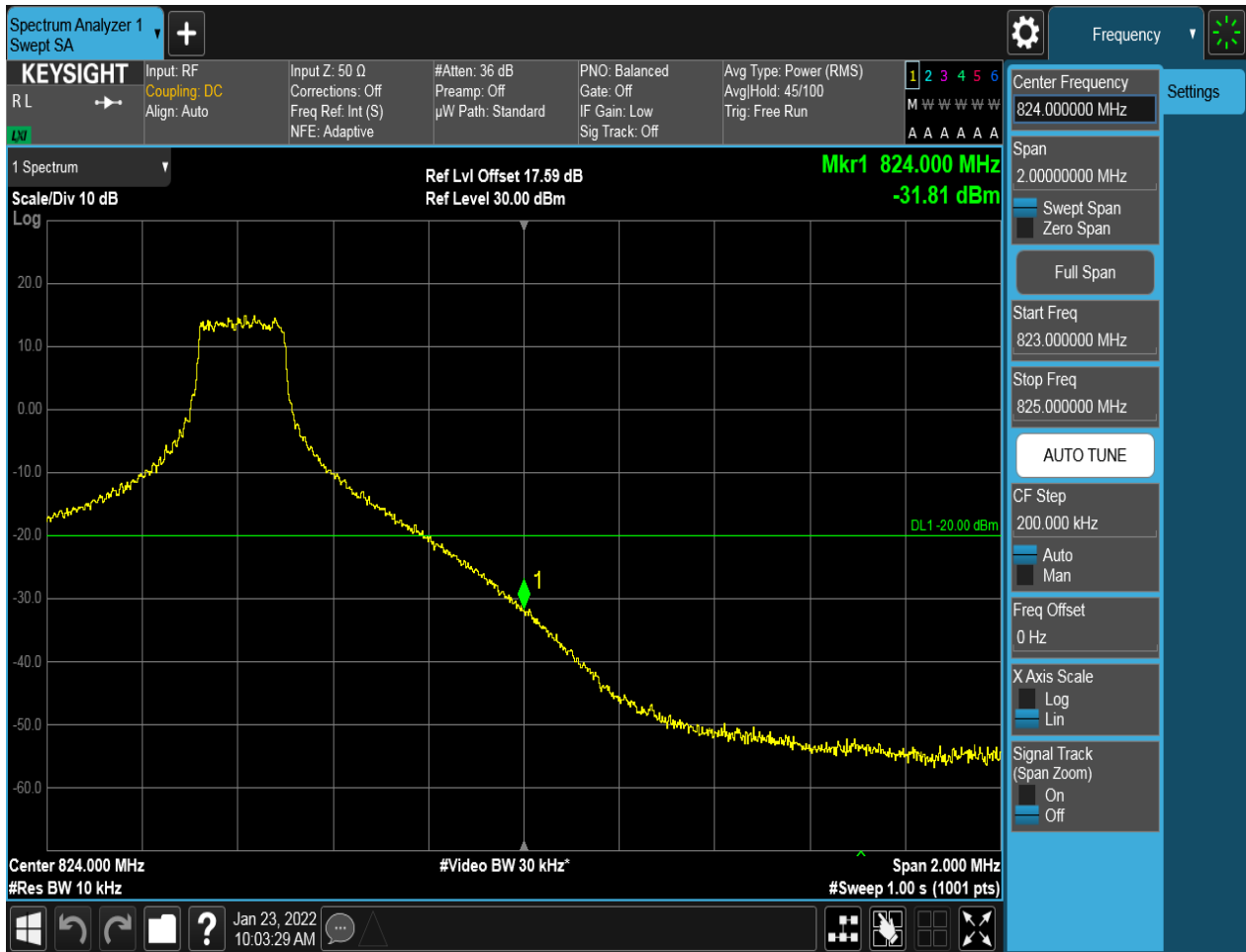
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





5.1.1.2.4.2.2 Test RB = RB1#49





5.1.1.2.4.2.3 Test RB = RB25#13





5.1.1.2.4.2.4 Test RB = RB50#0



6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

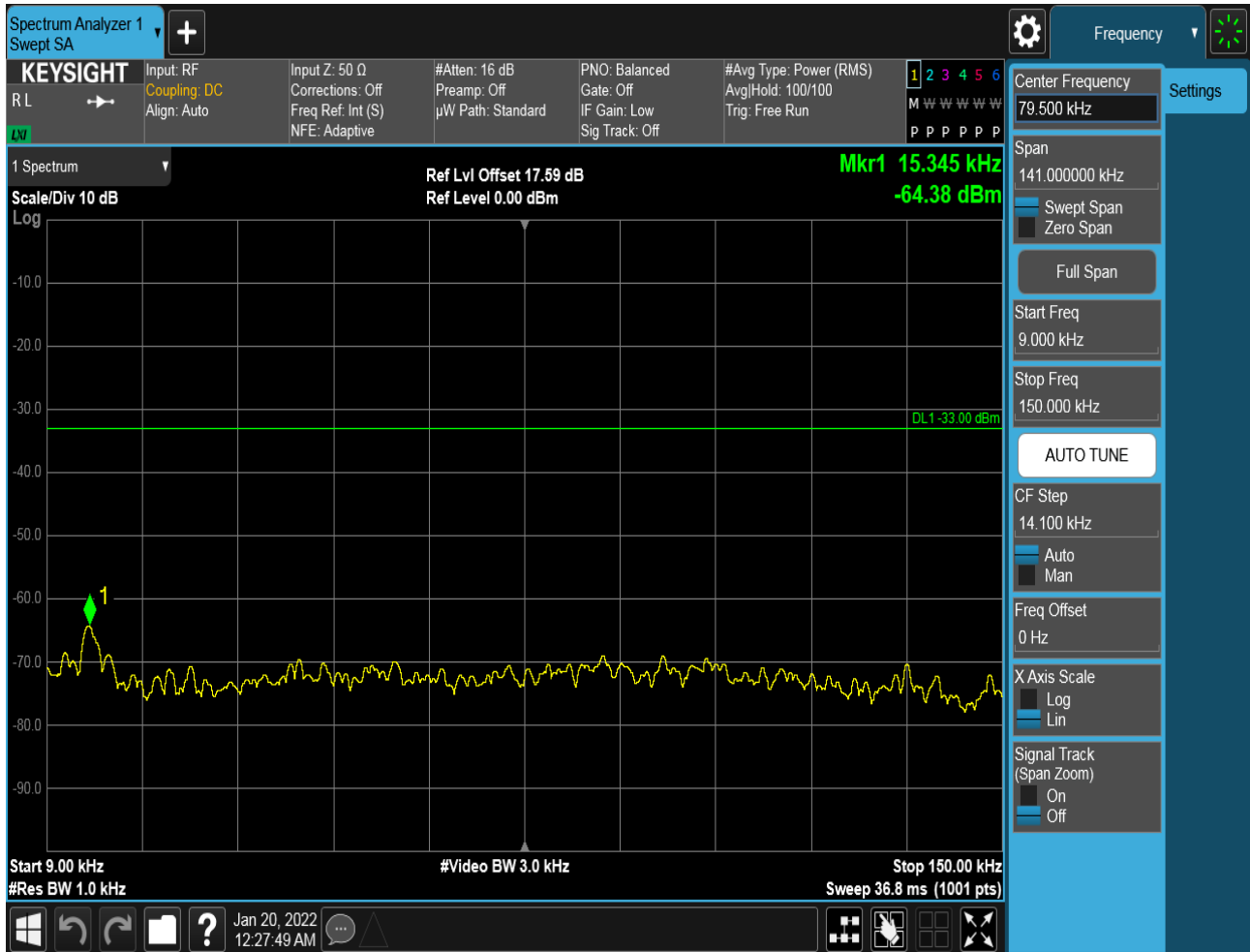
6.1.1 Test Band = Band26_A

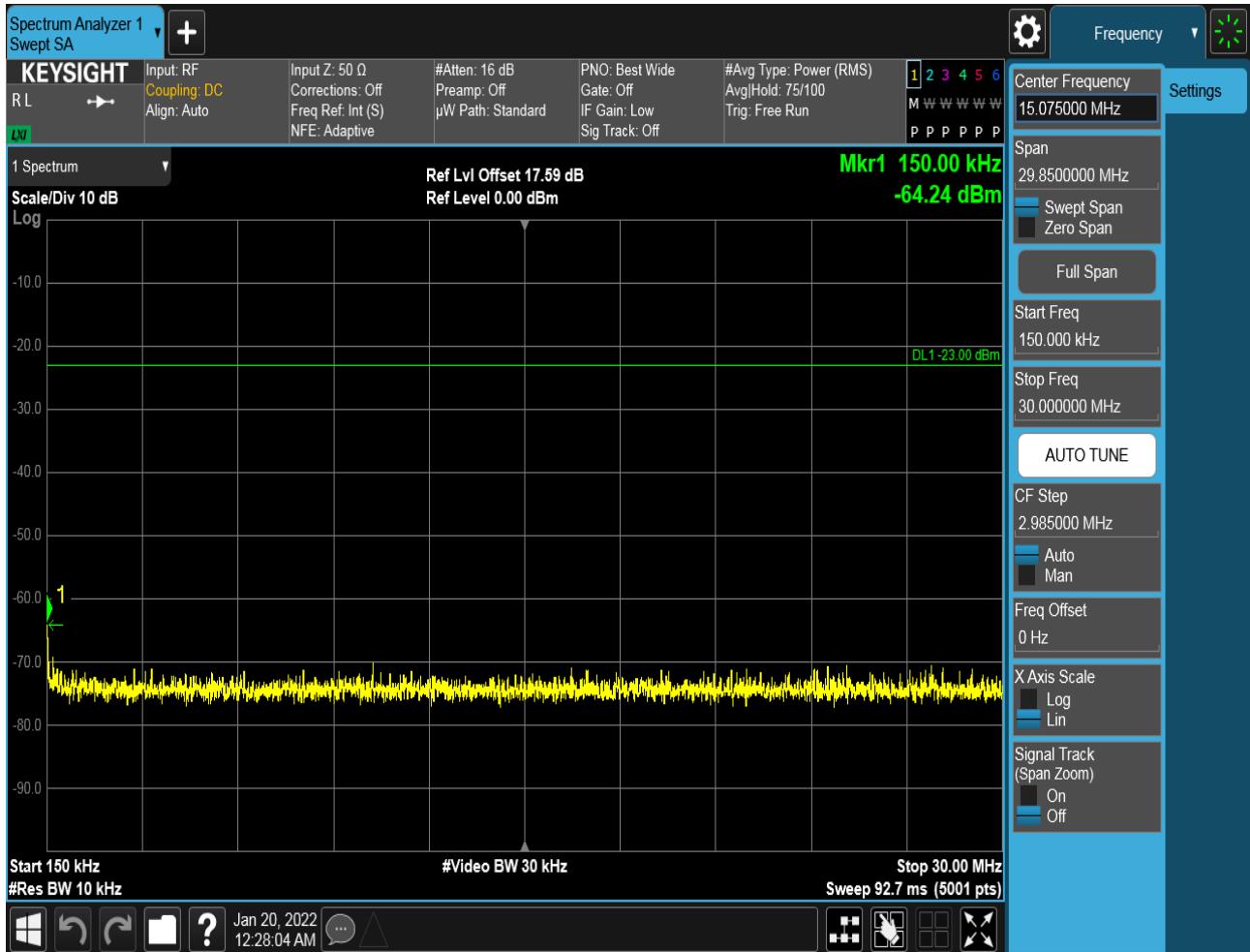
6.1.1.1 Test Mode = LTE/TM1

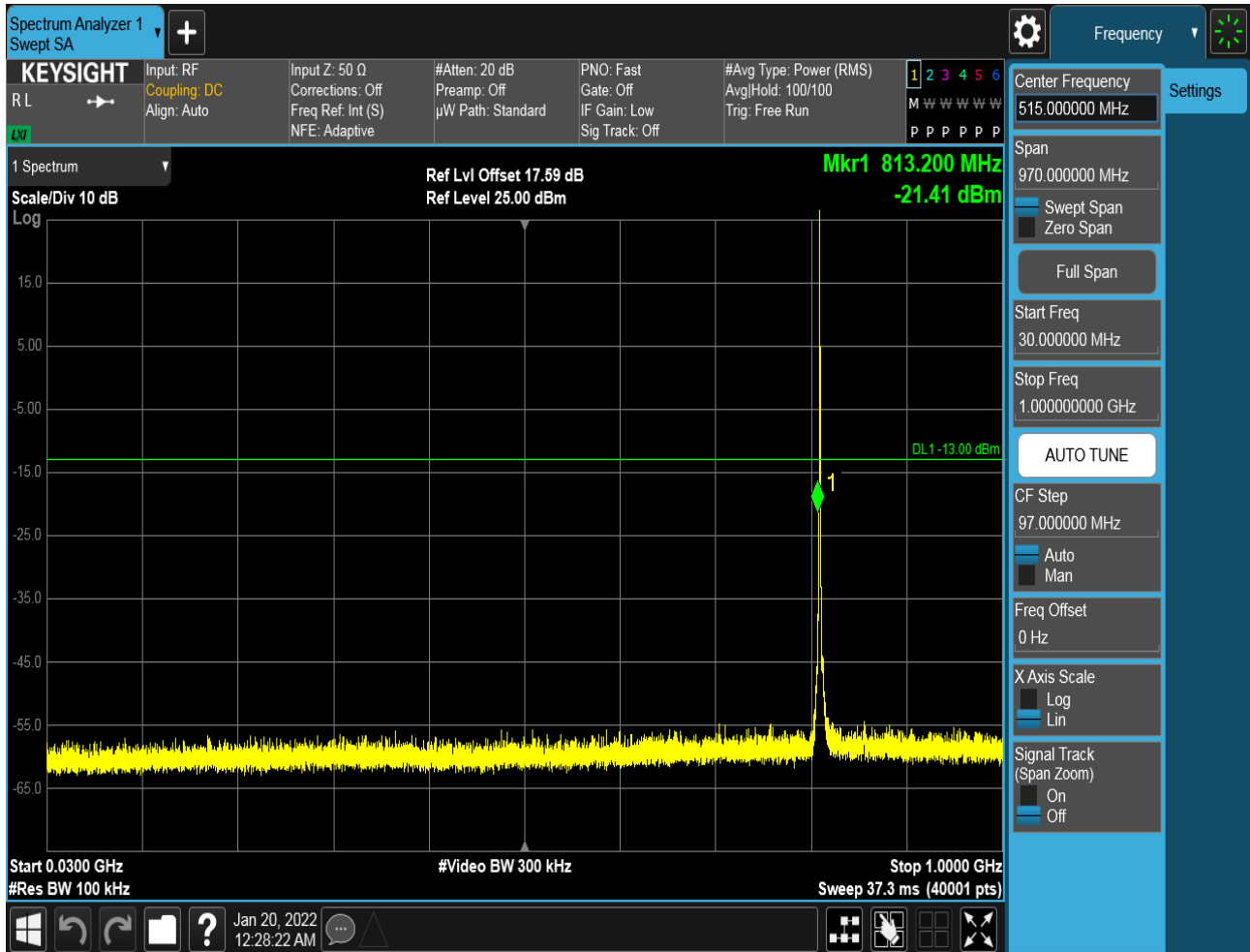
6.1.1.1.1 Test Bandwidth = 1.4MHz

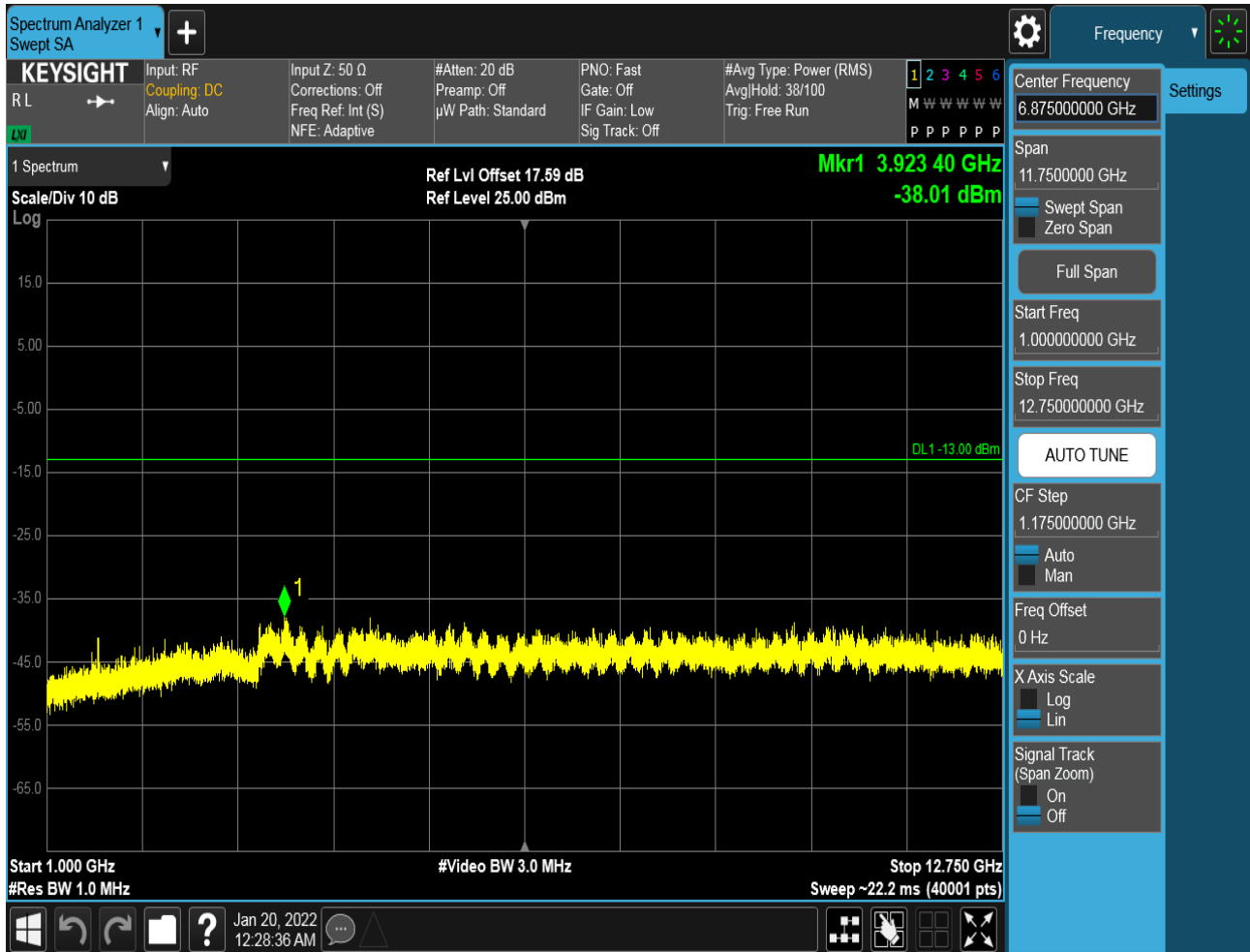
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0





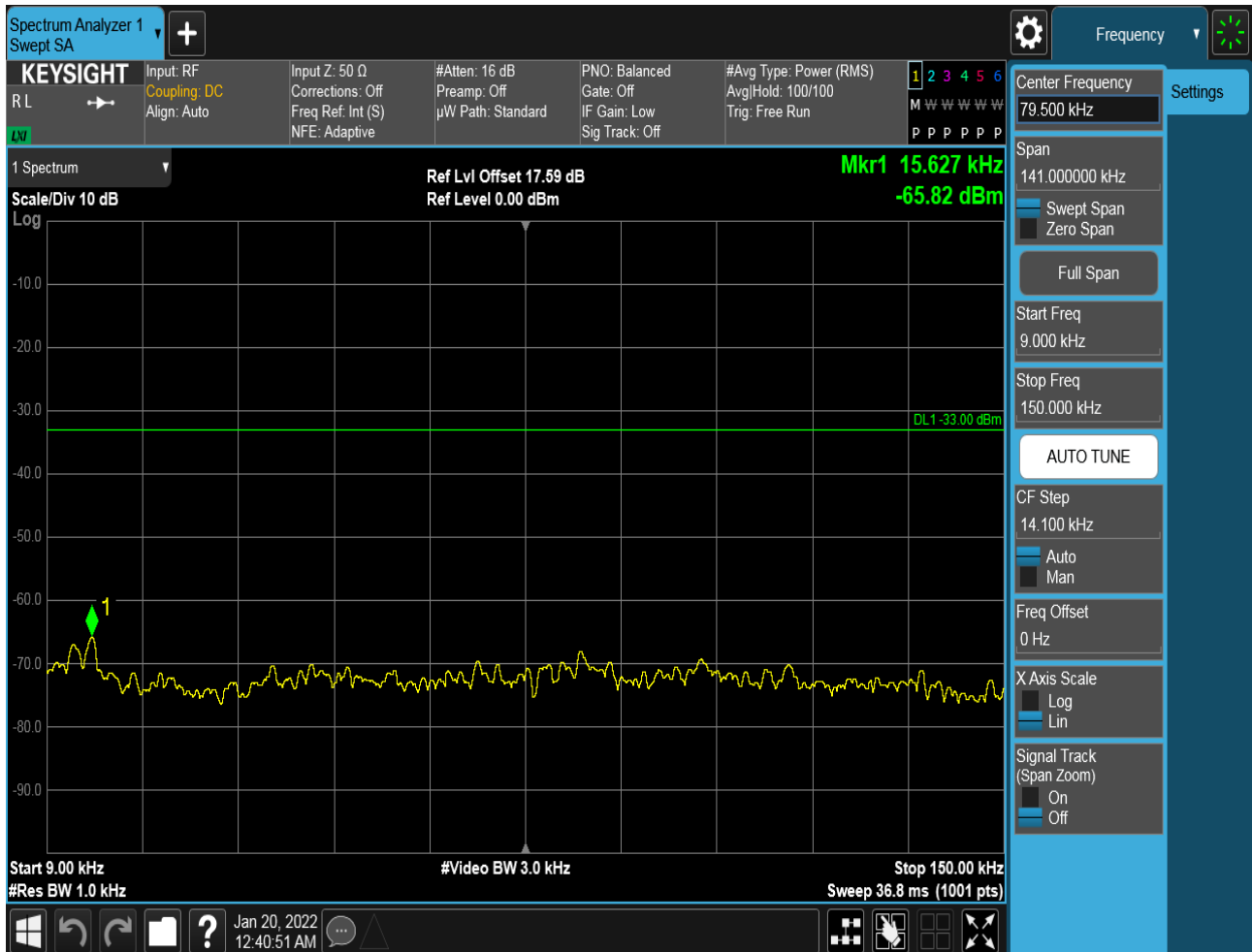


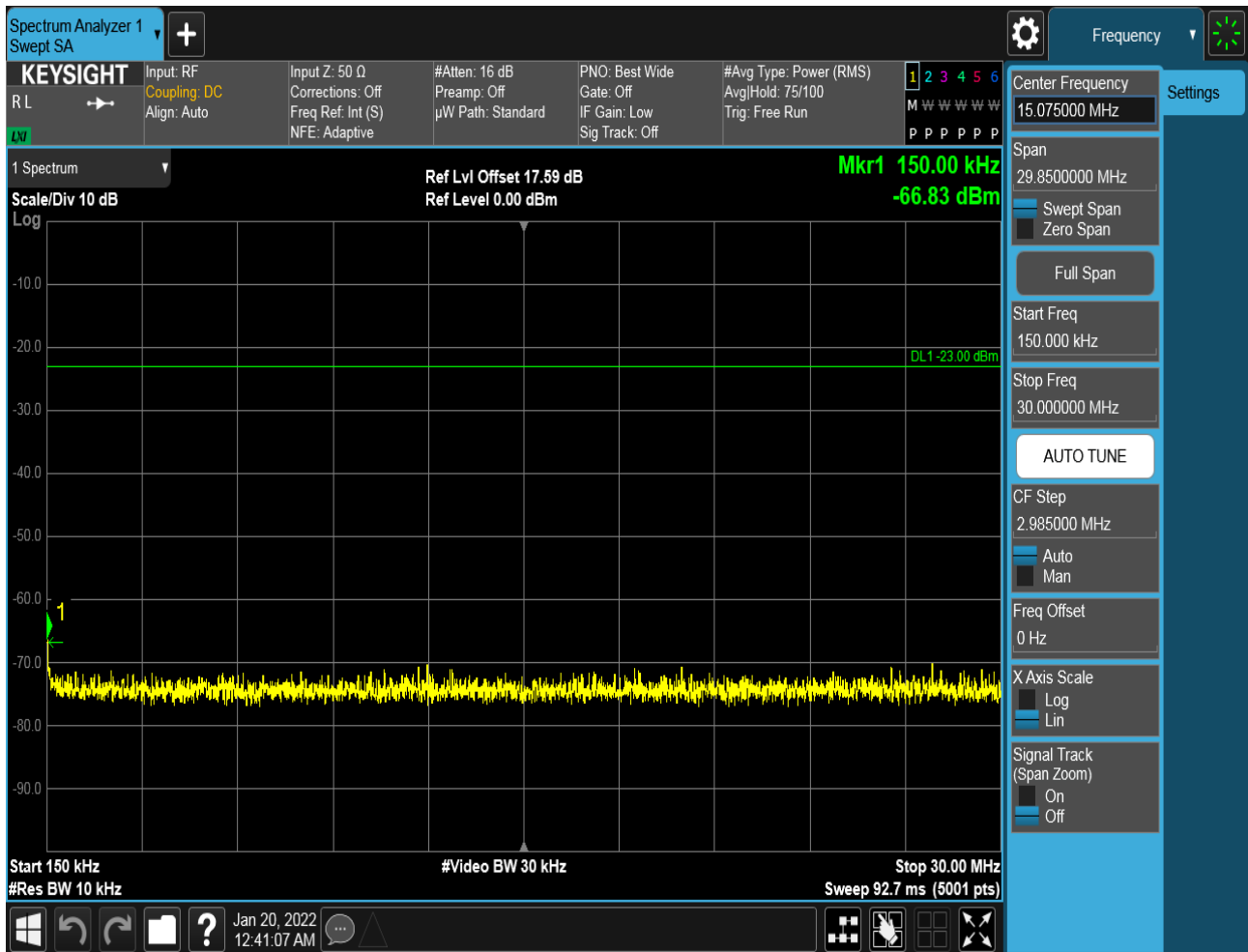


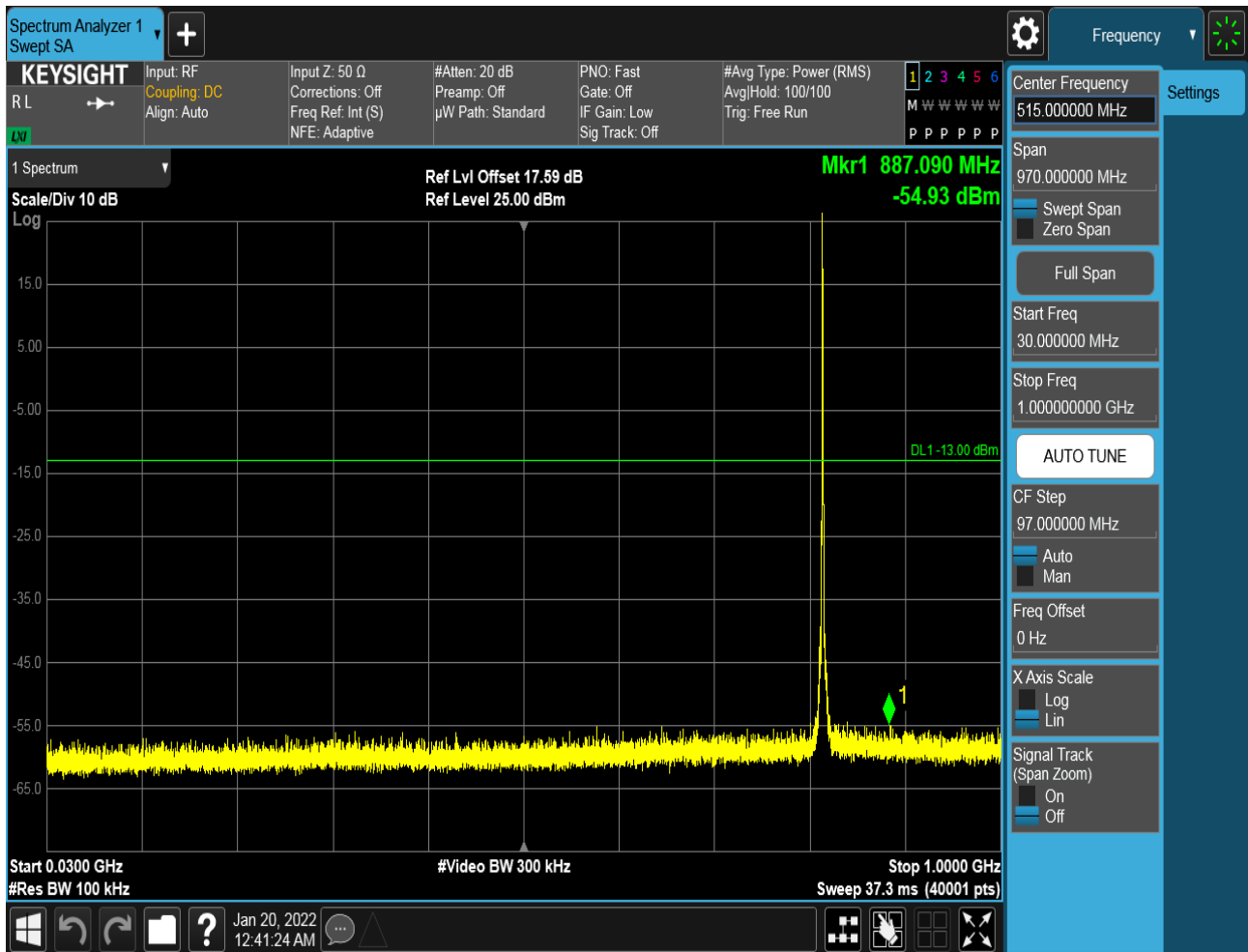


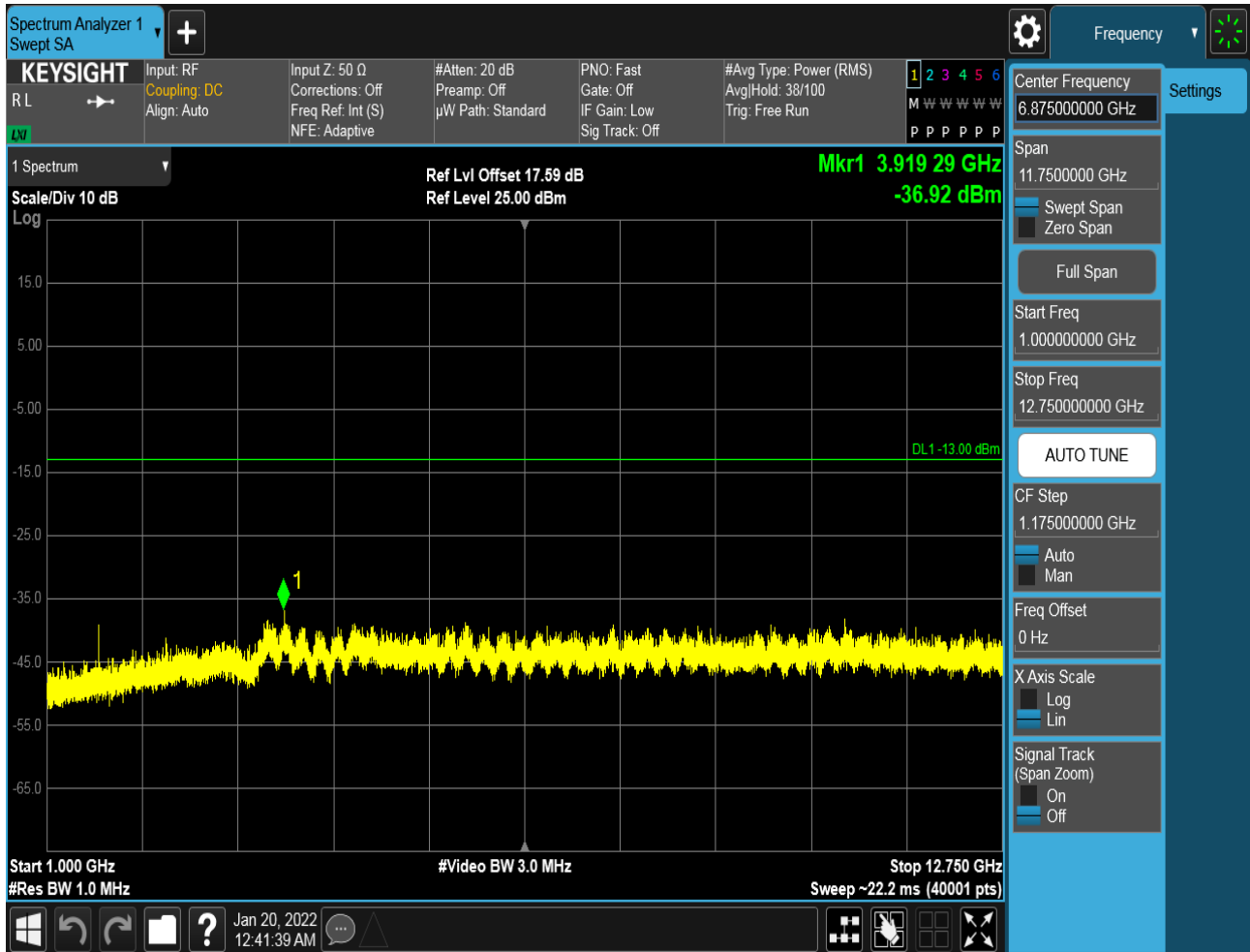
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



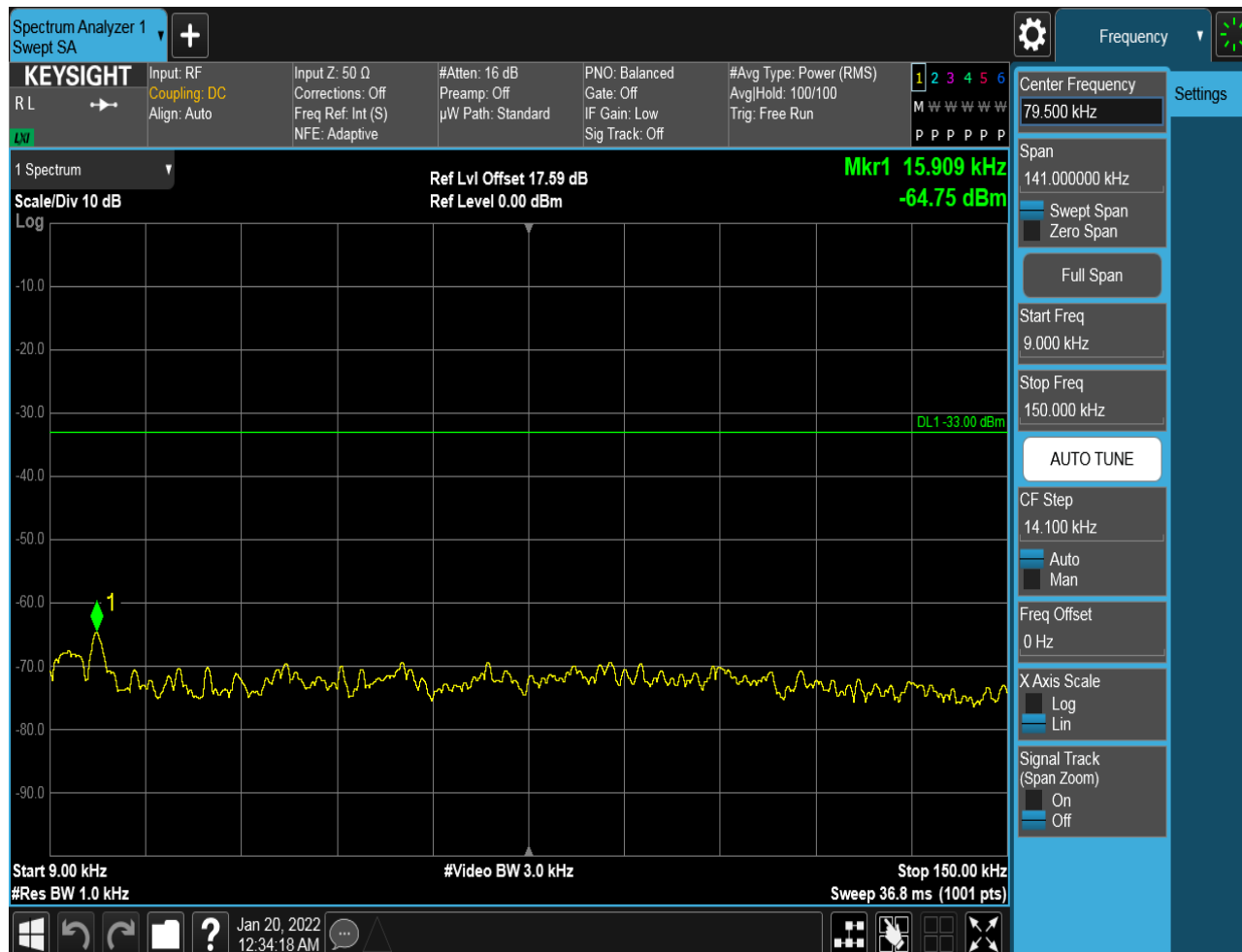


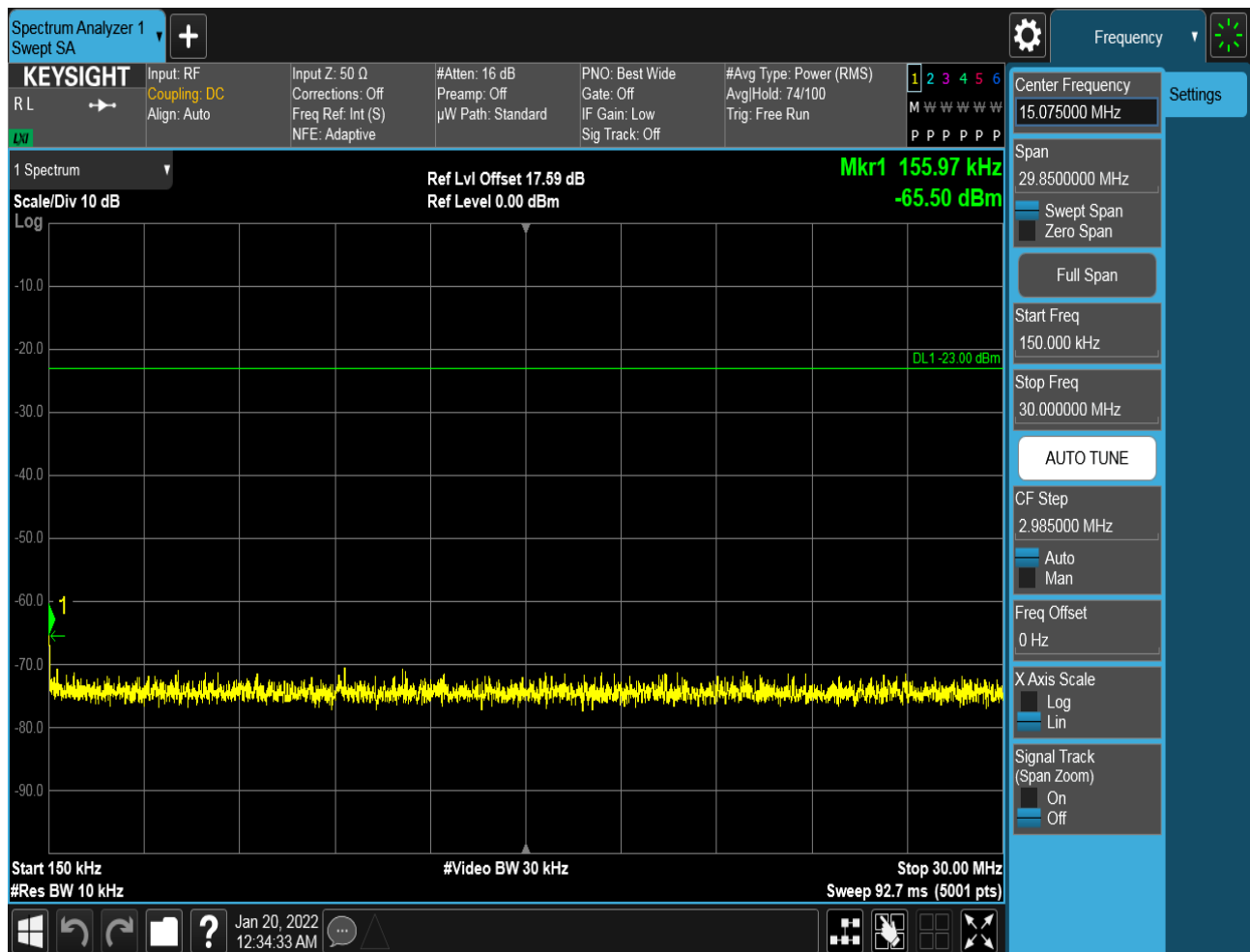


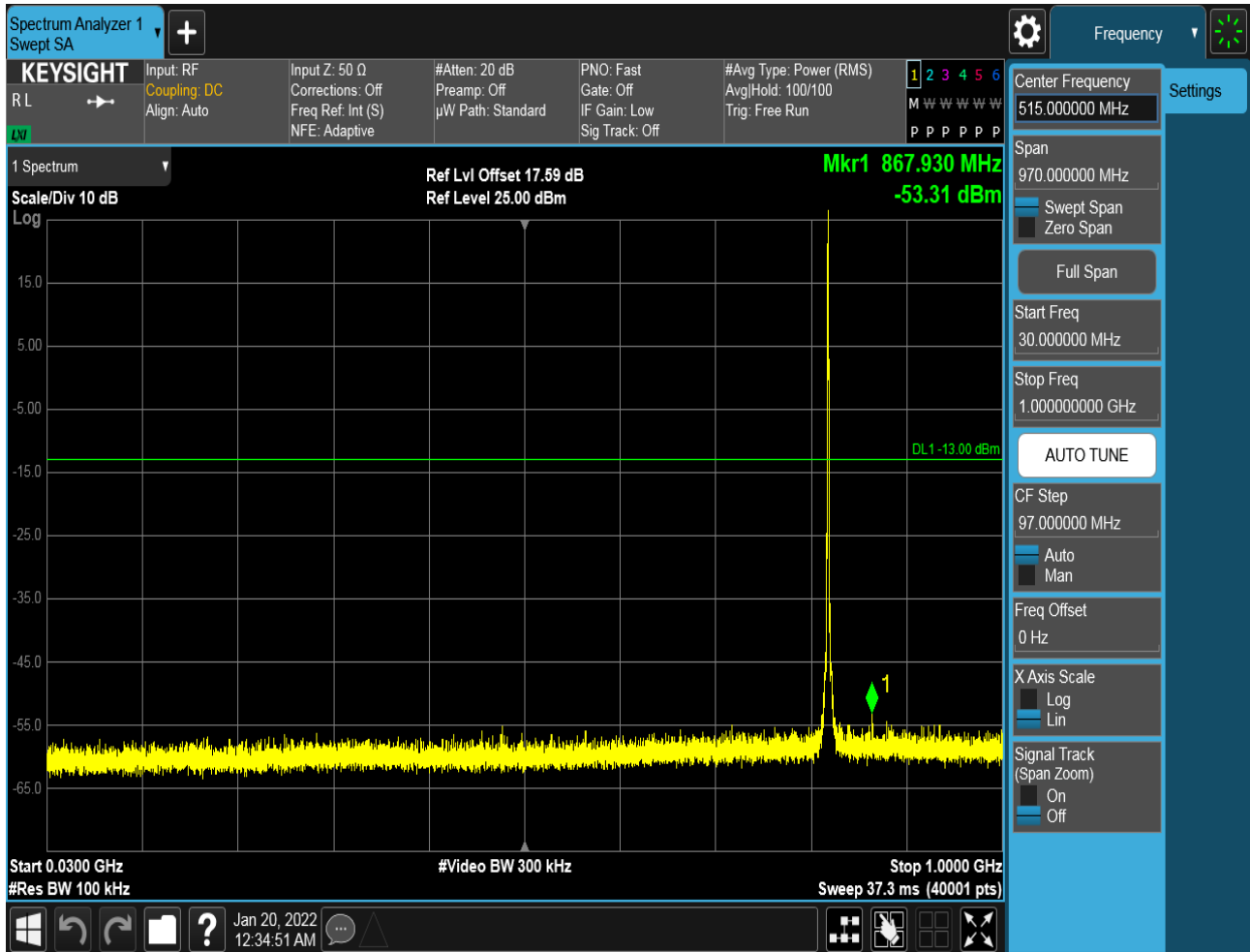


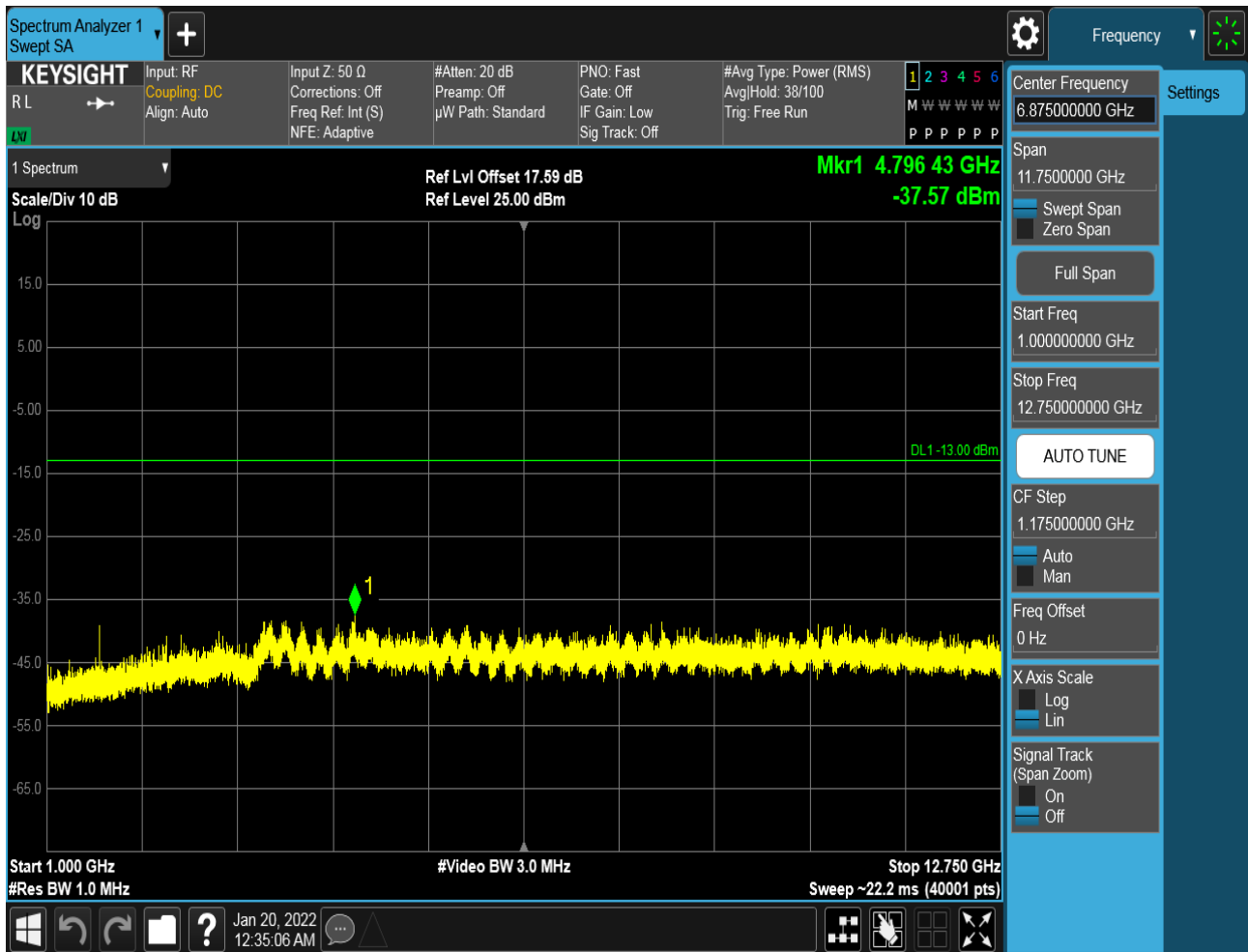
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0





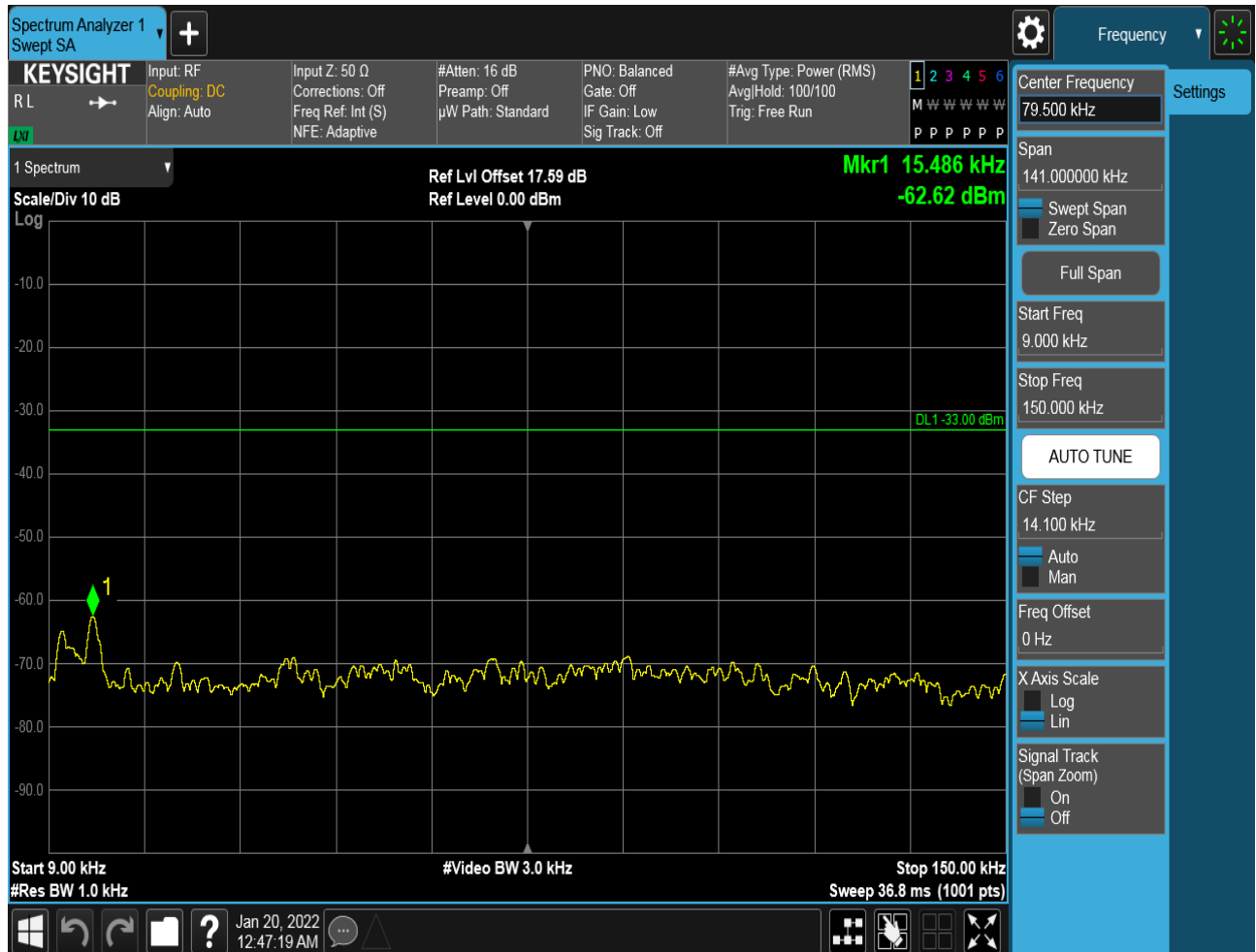


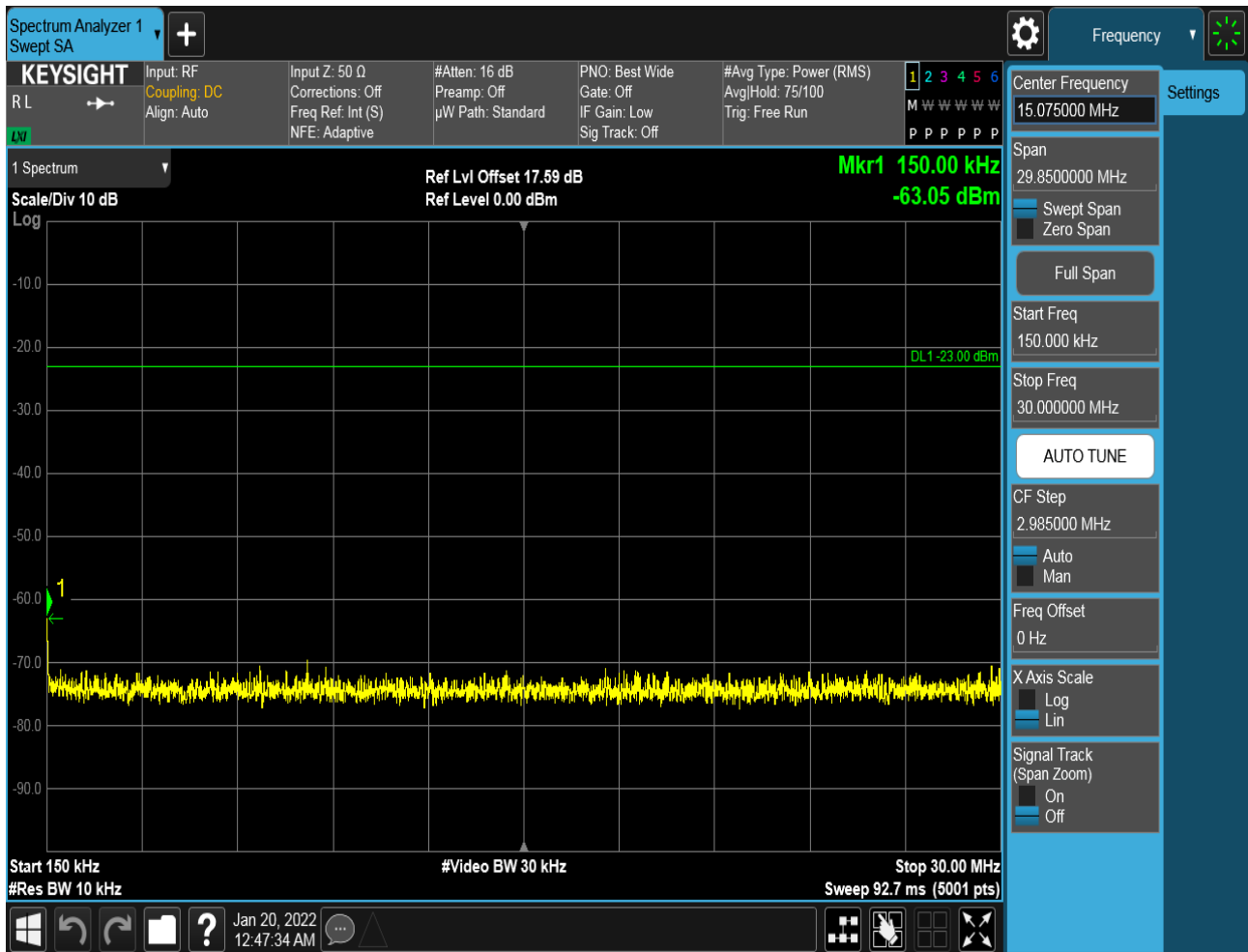


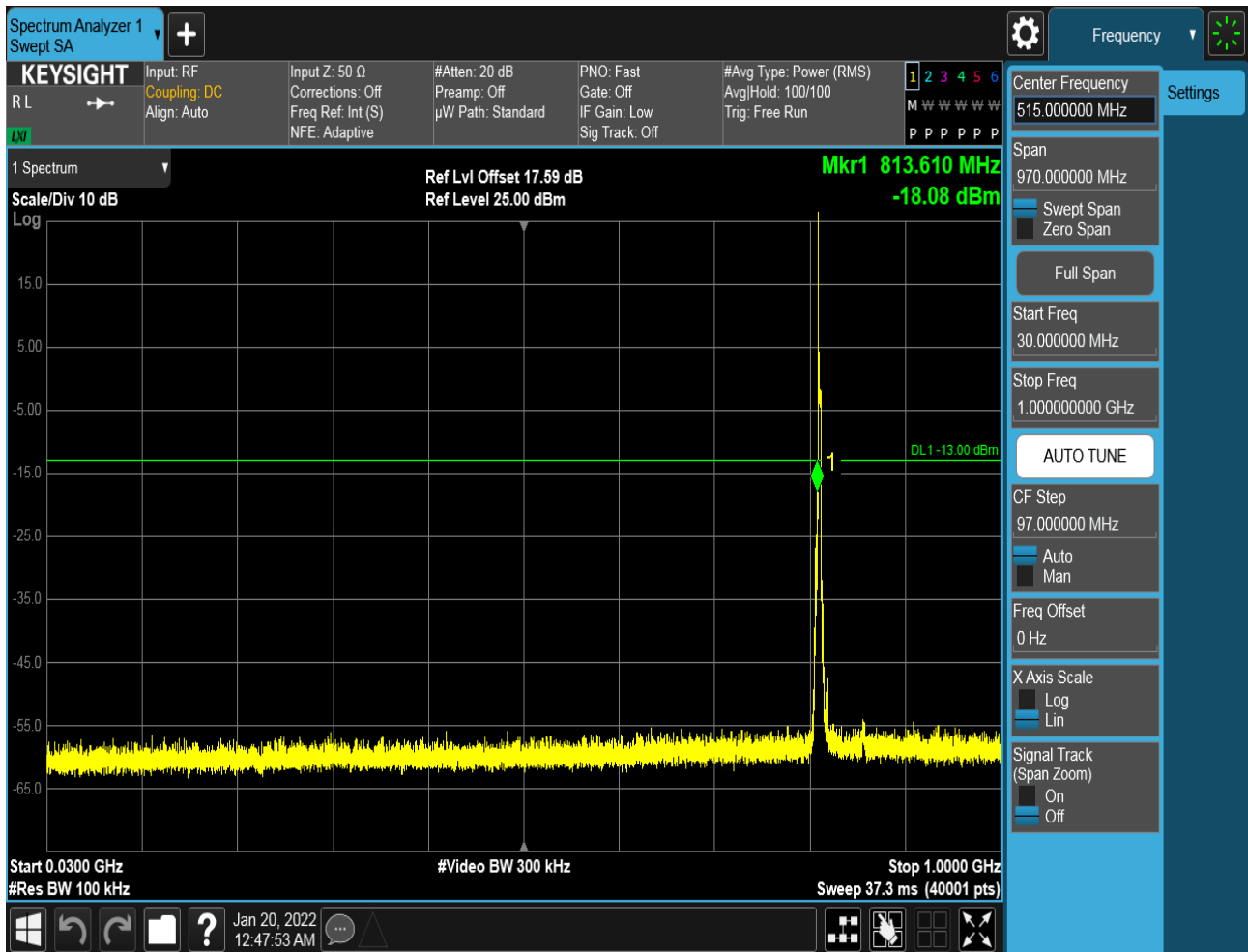
6.2.1.1.2 Test Bandwidth = 3MHz

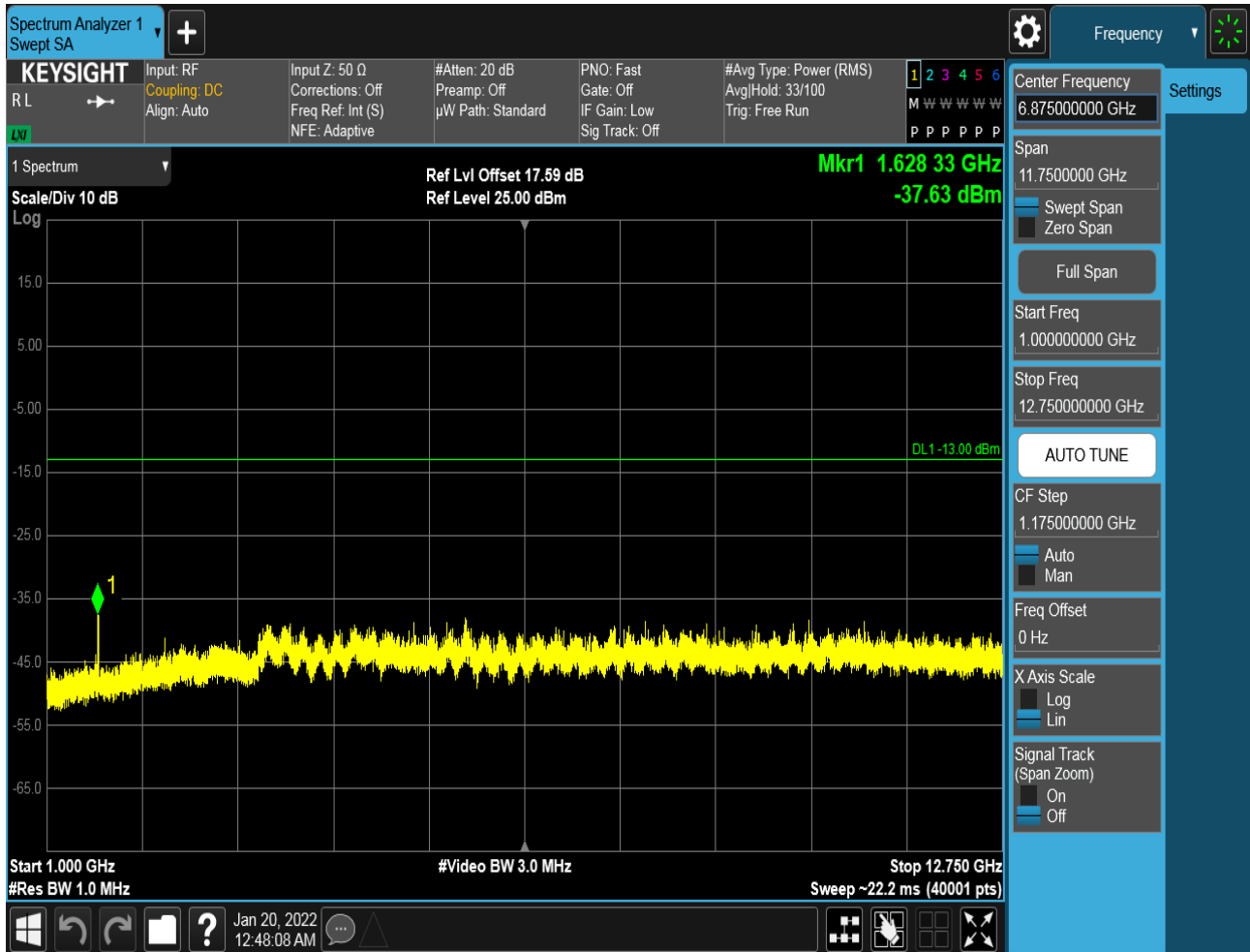
6.2.1.1.2.1 Test Channel = LCH

6.2.1.1.2.1.1 Test RB = RB1#0





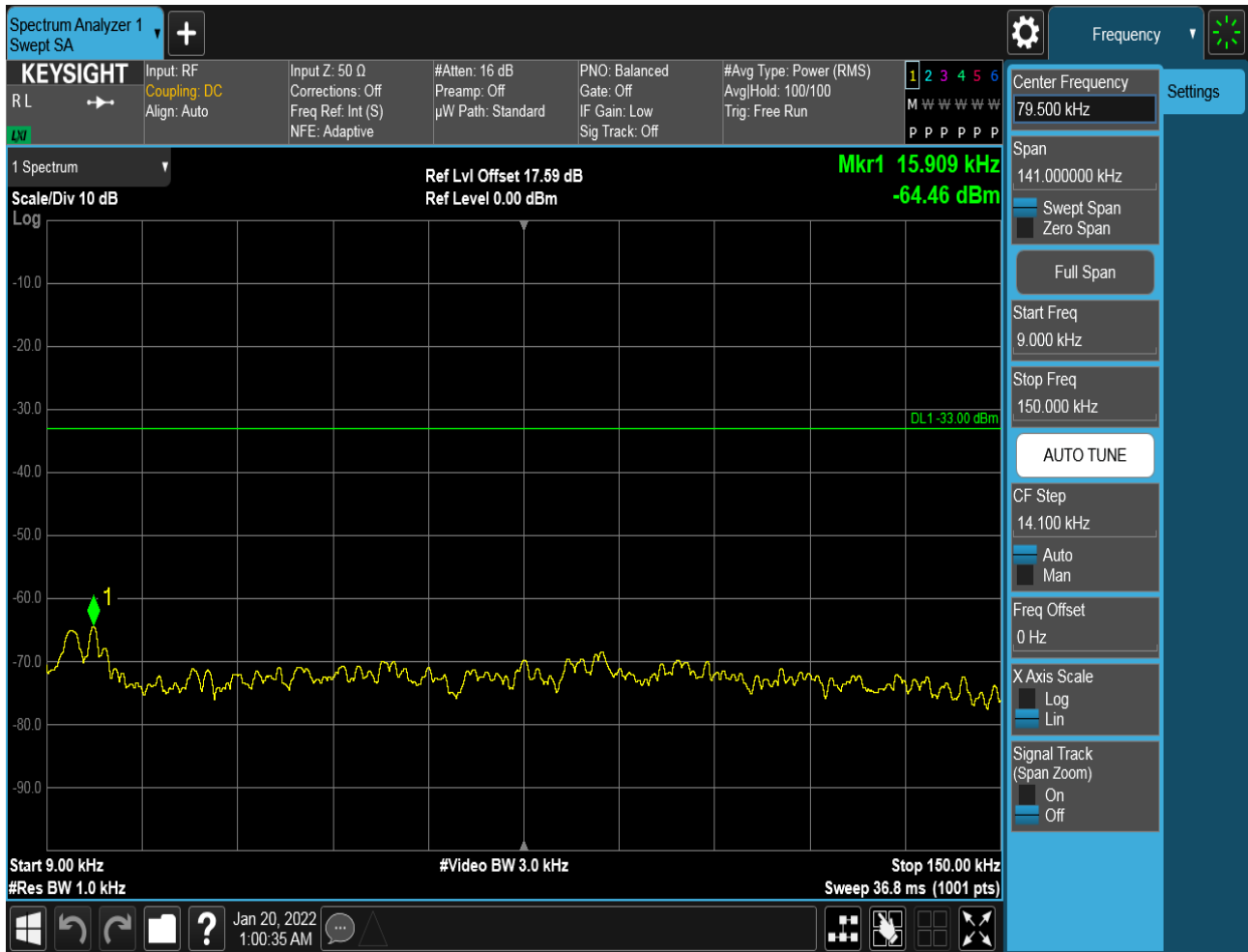


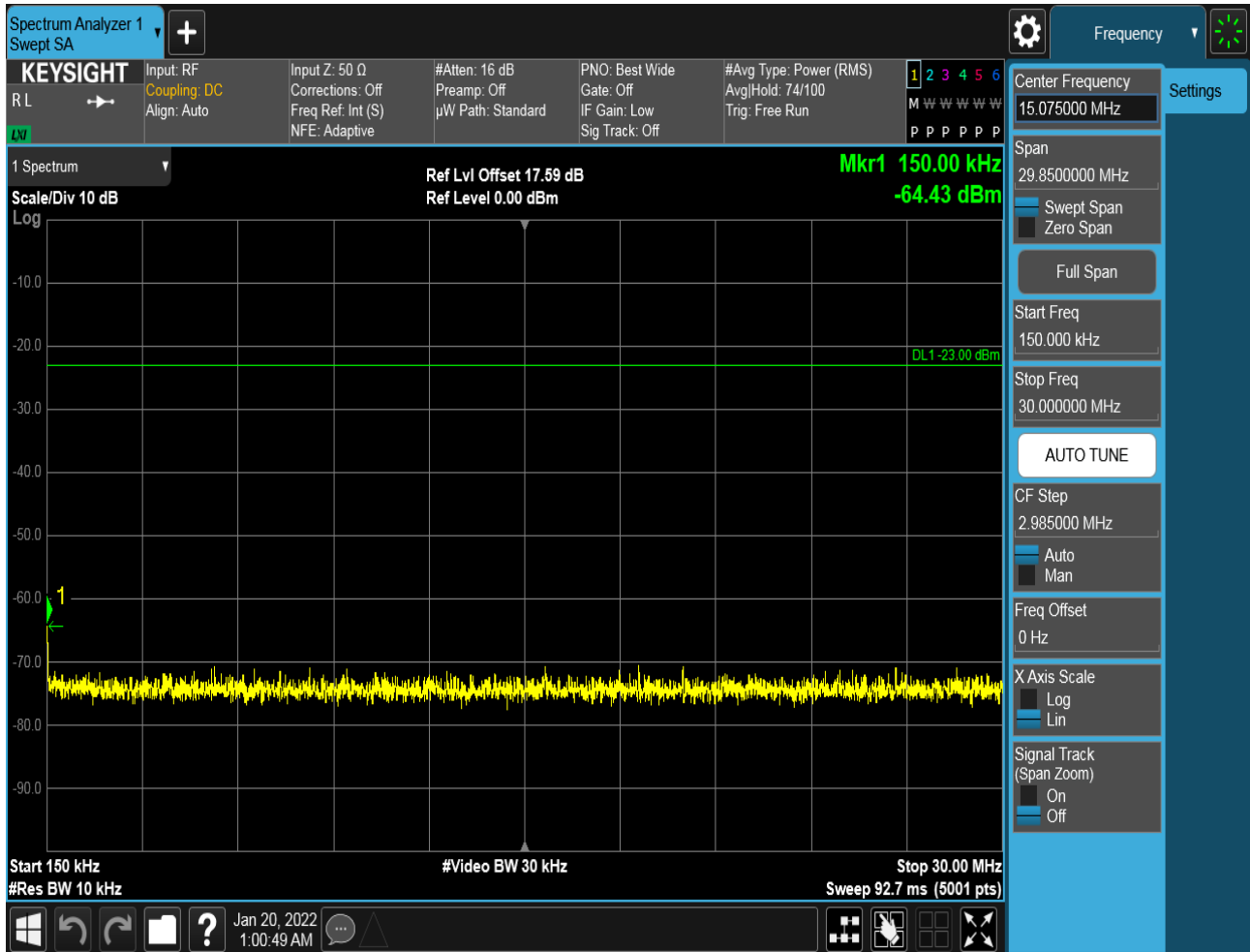


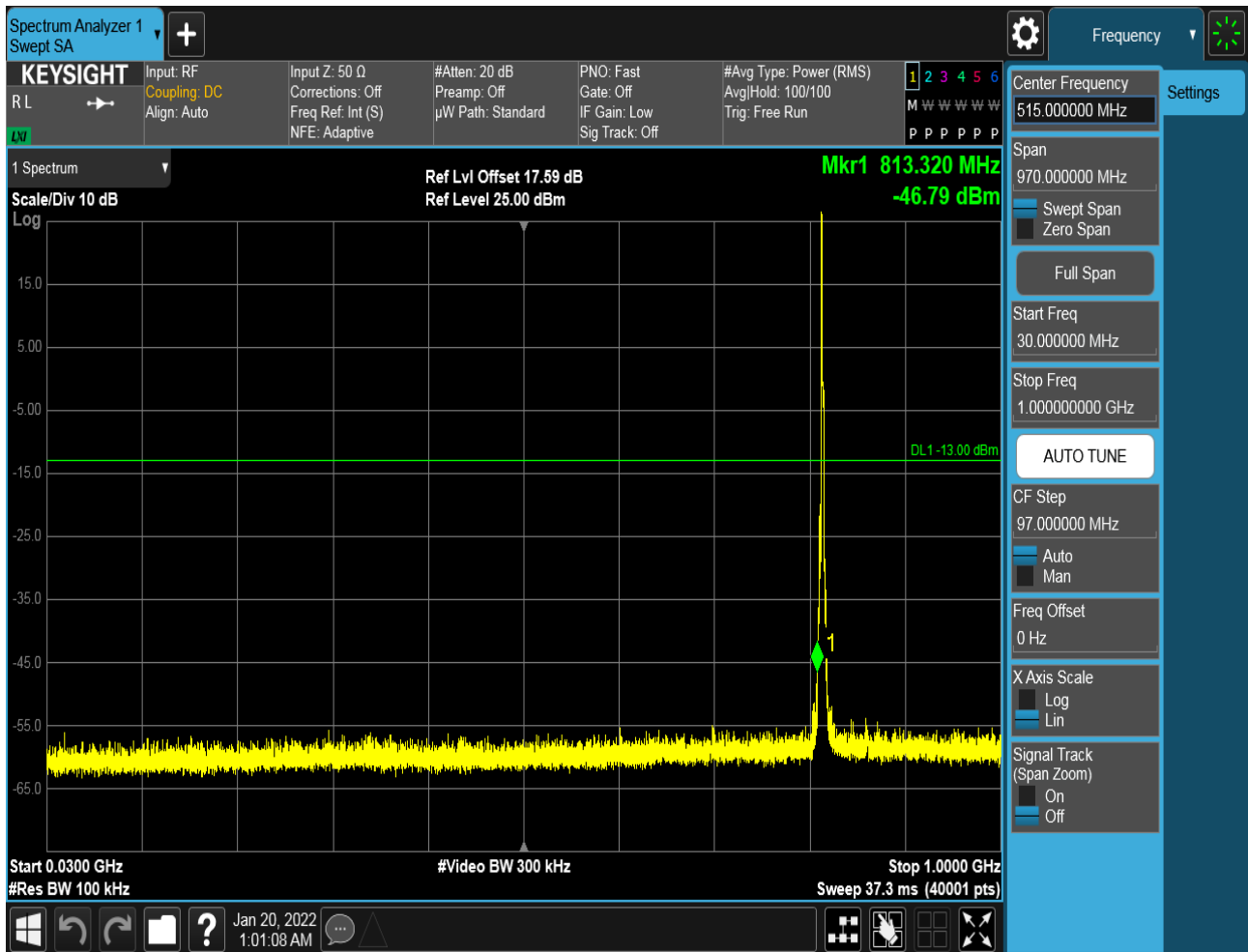


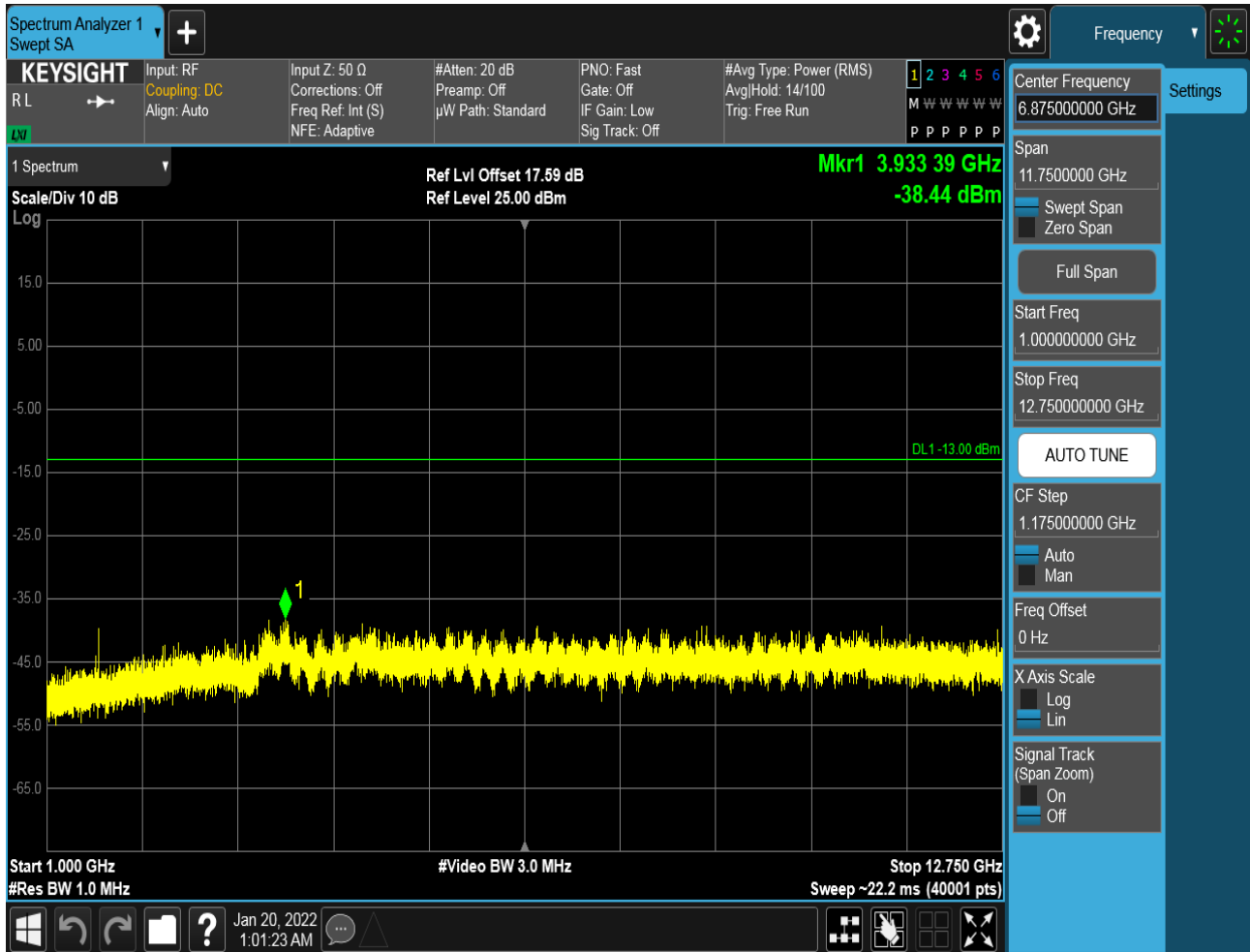
6.2.1.1.2.2 Test Channel = MCH

6.2.1.1.2.2.1 Test RB = RB1#0





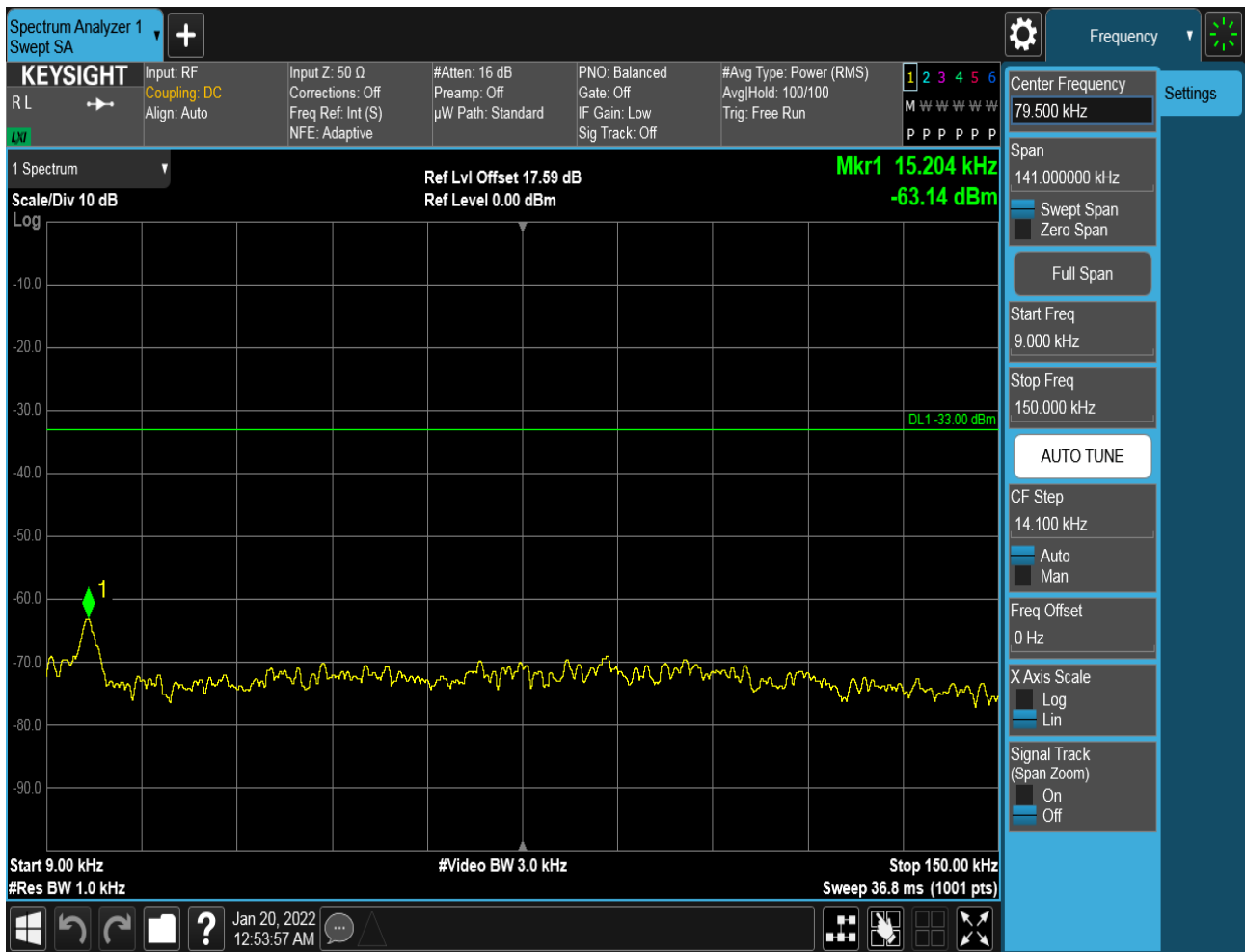


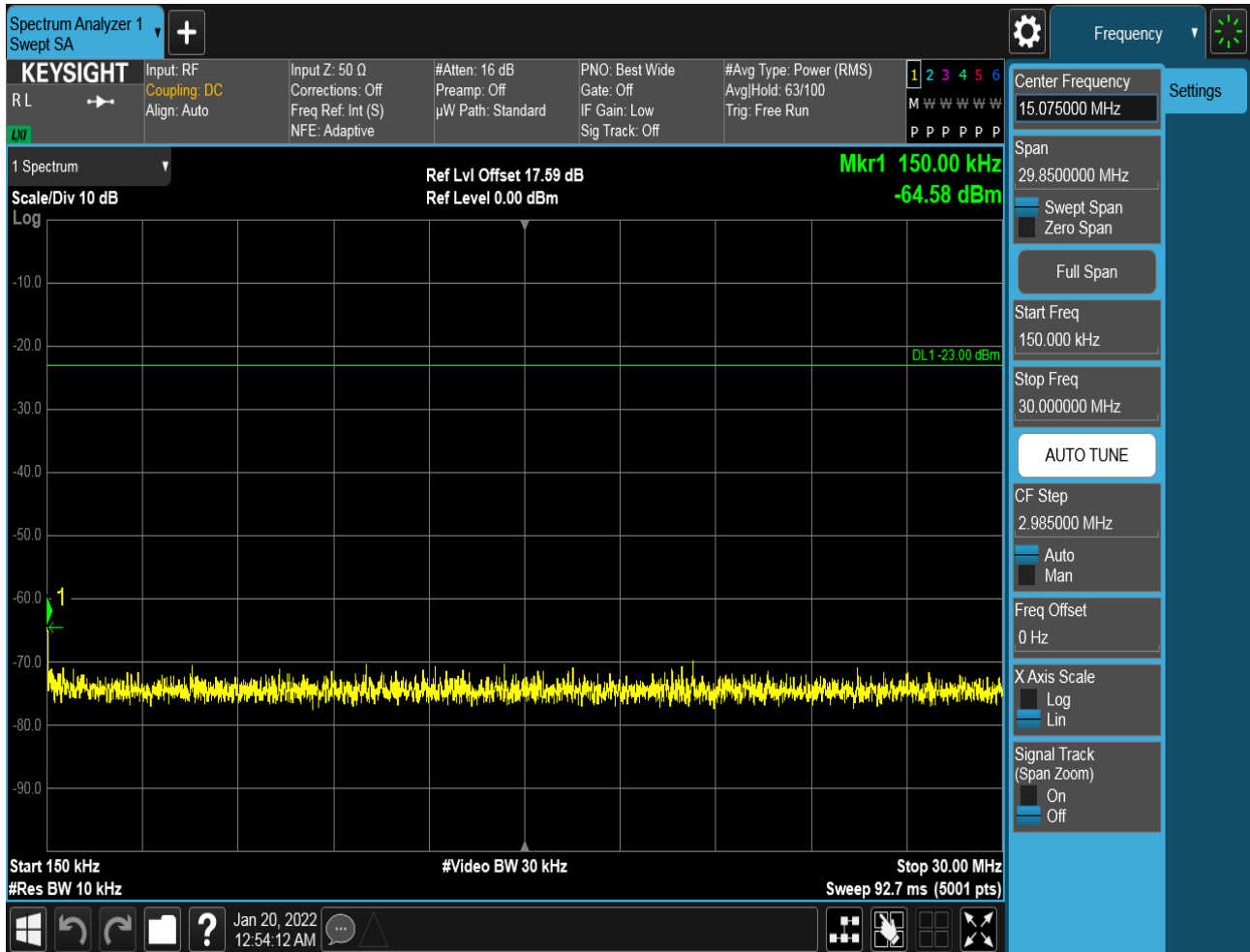


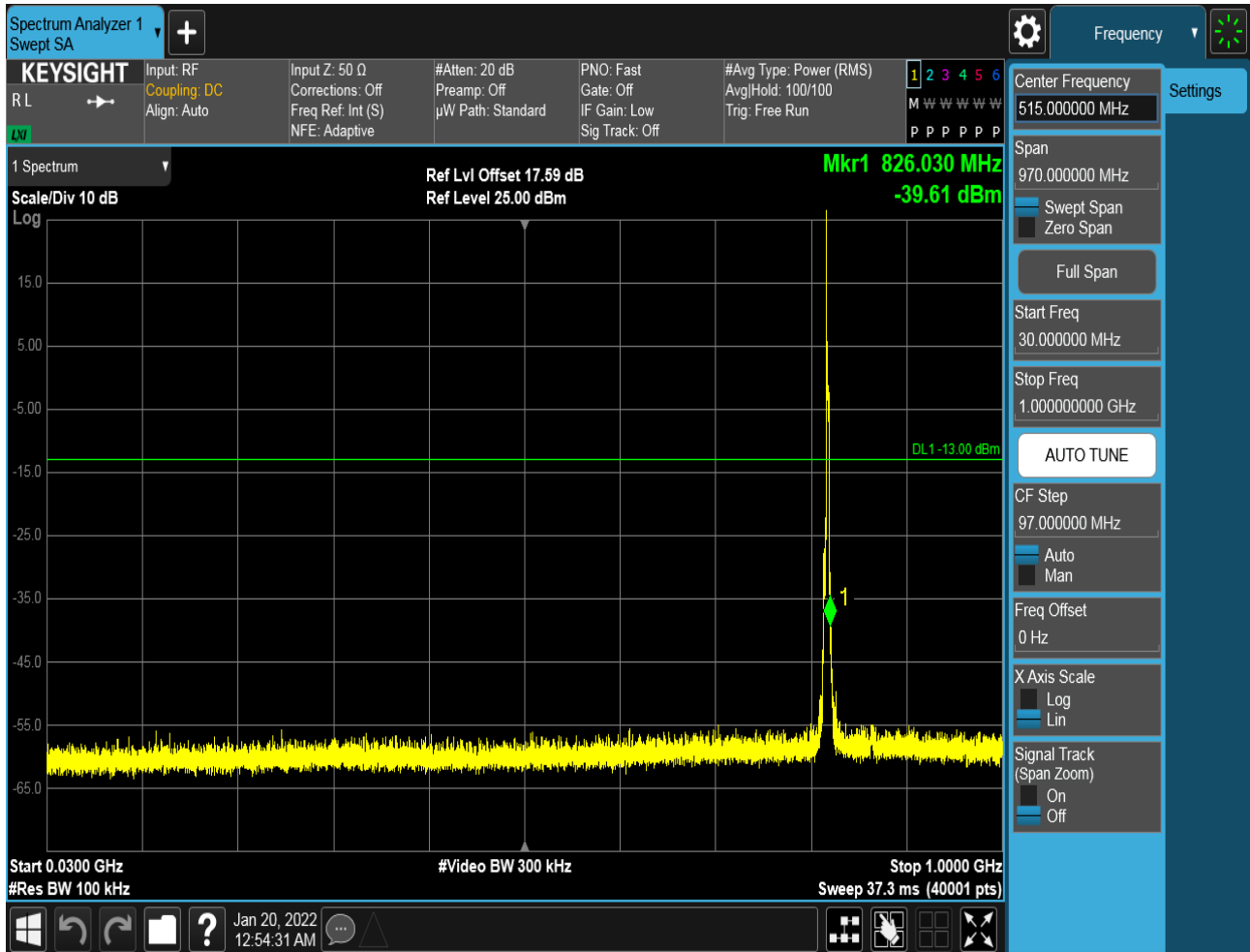


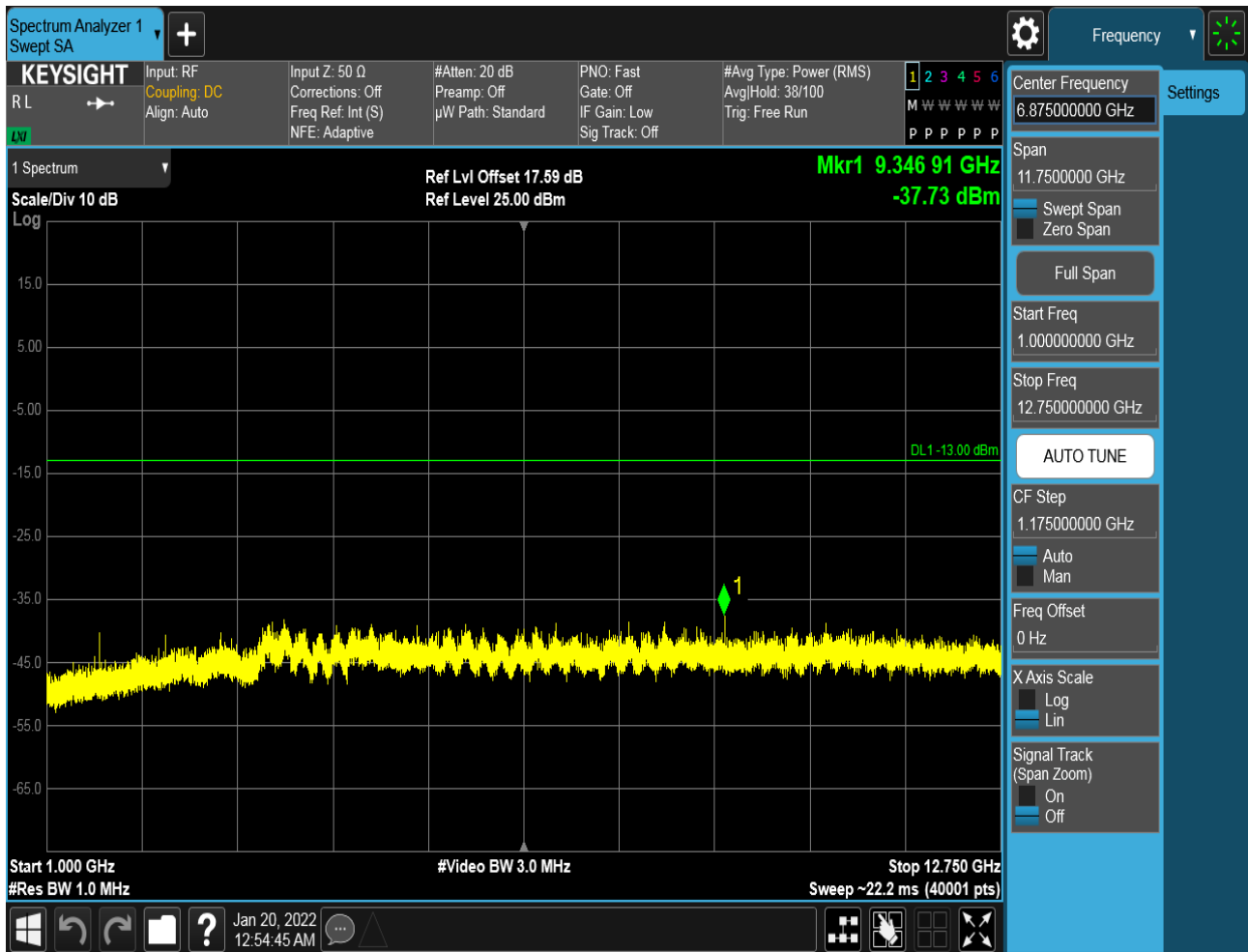
6.2.1.1.2.3 Test Channel = HCH

6.2.1.1.2.3.1 Test RB = RB1#0







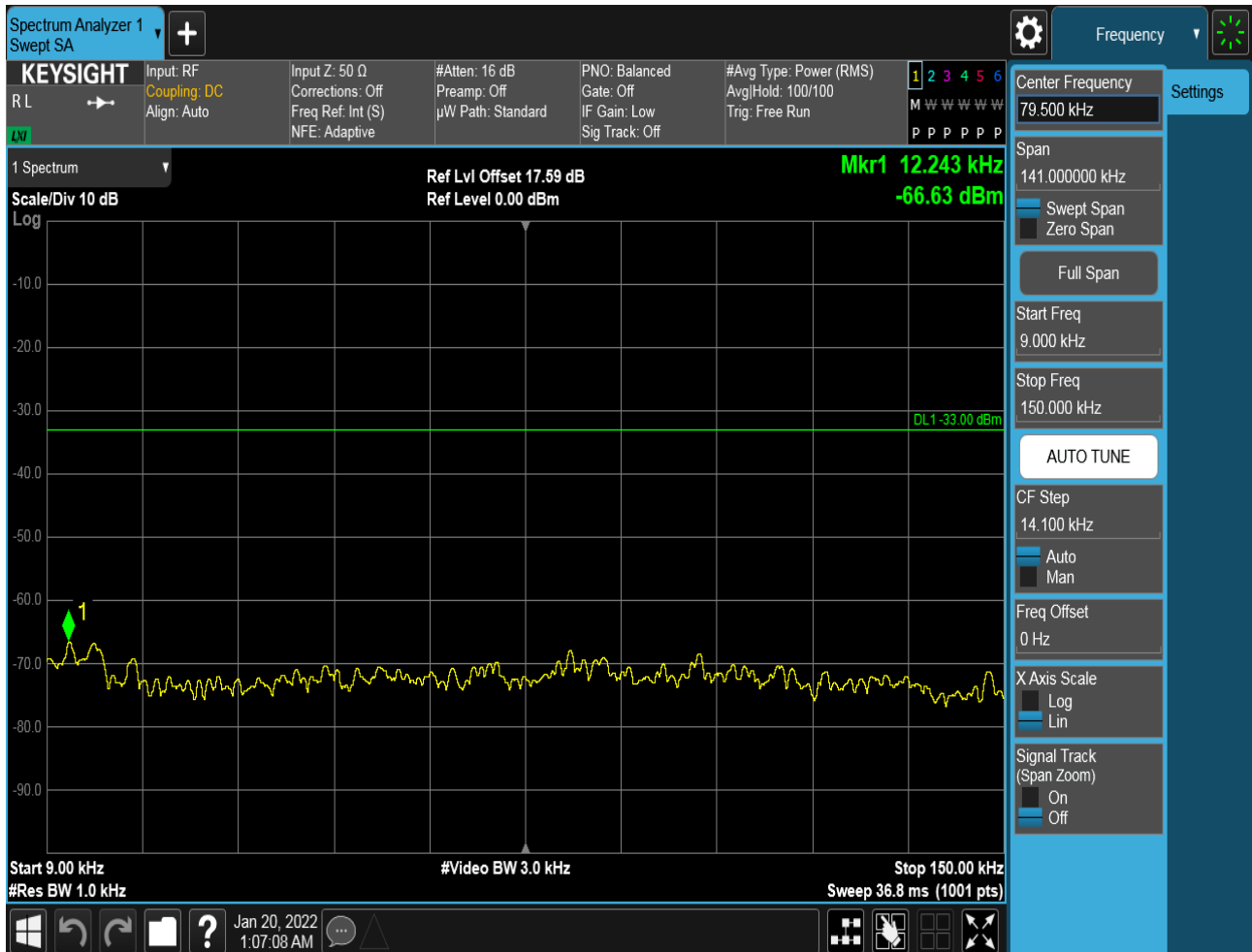




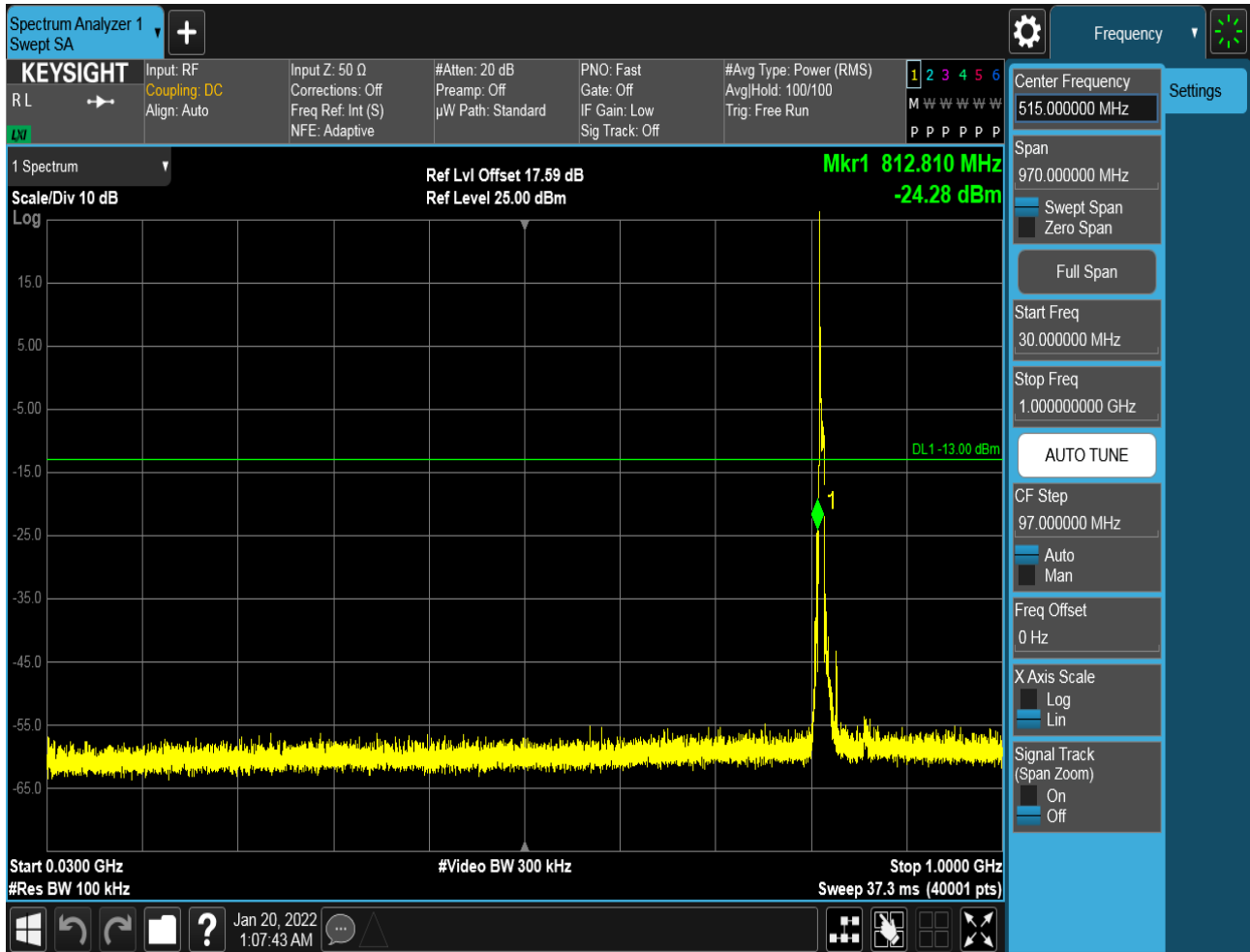
6.2.1.1.3 Test Bandwidth = 5MHz

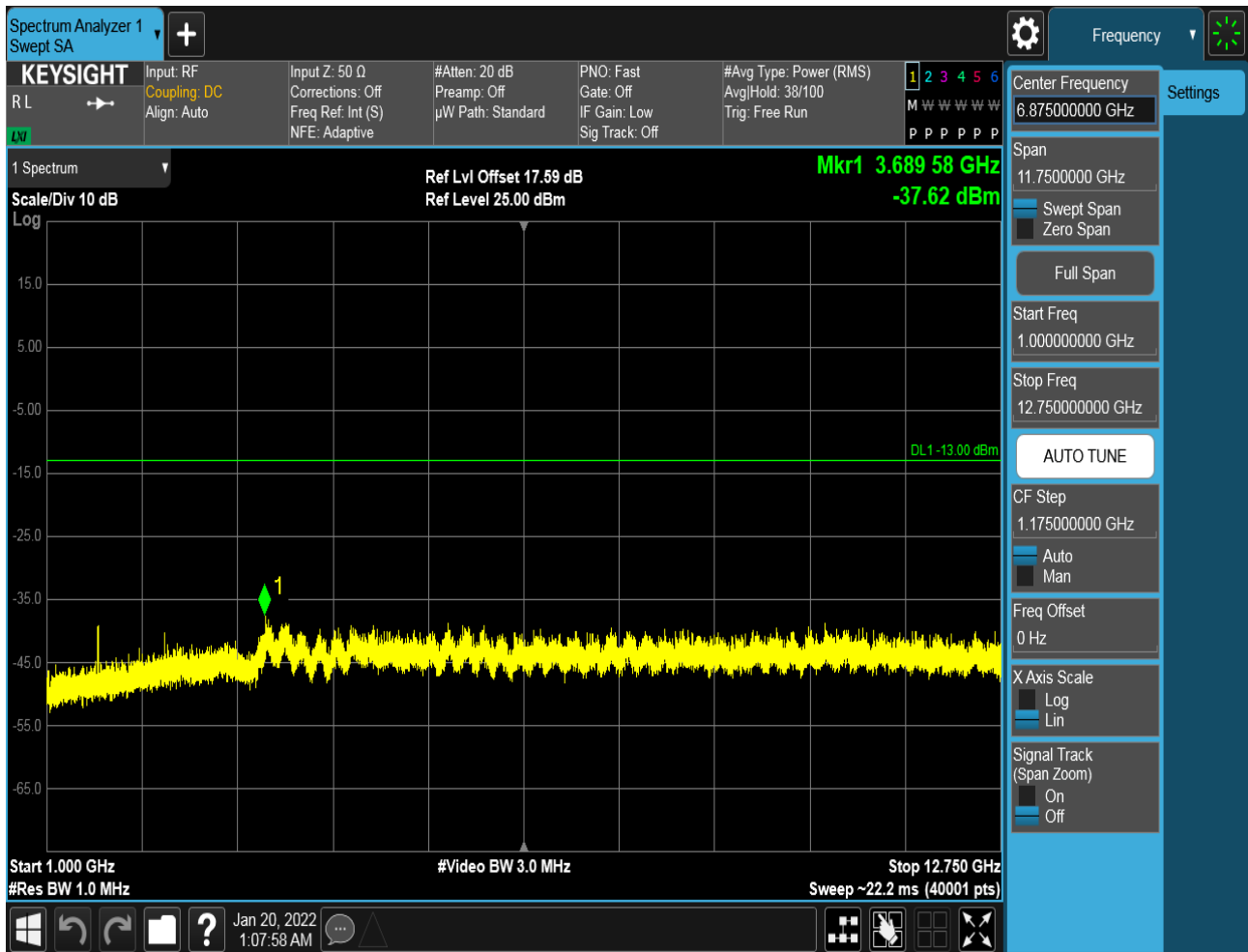
6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0





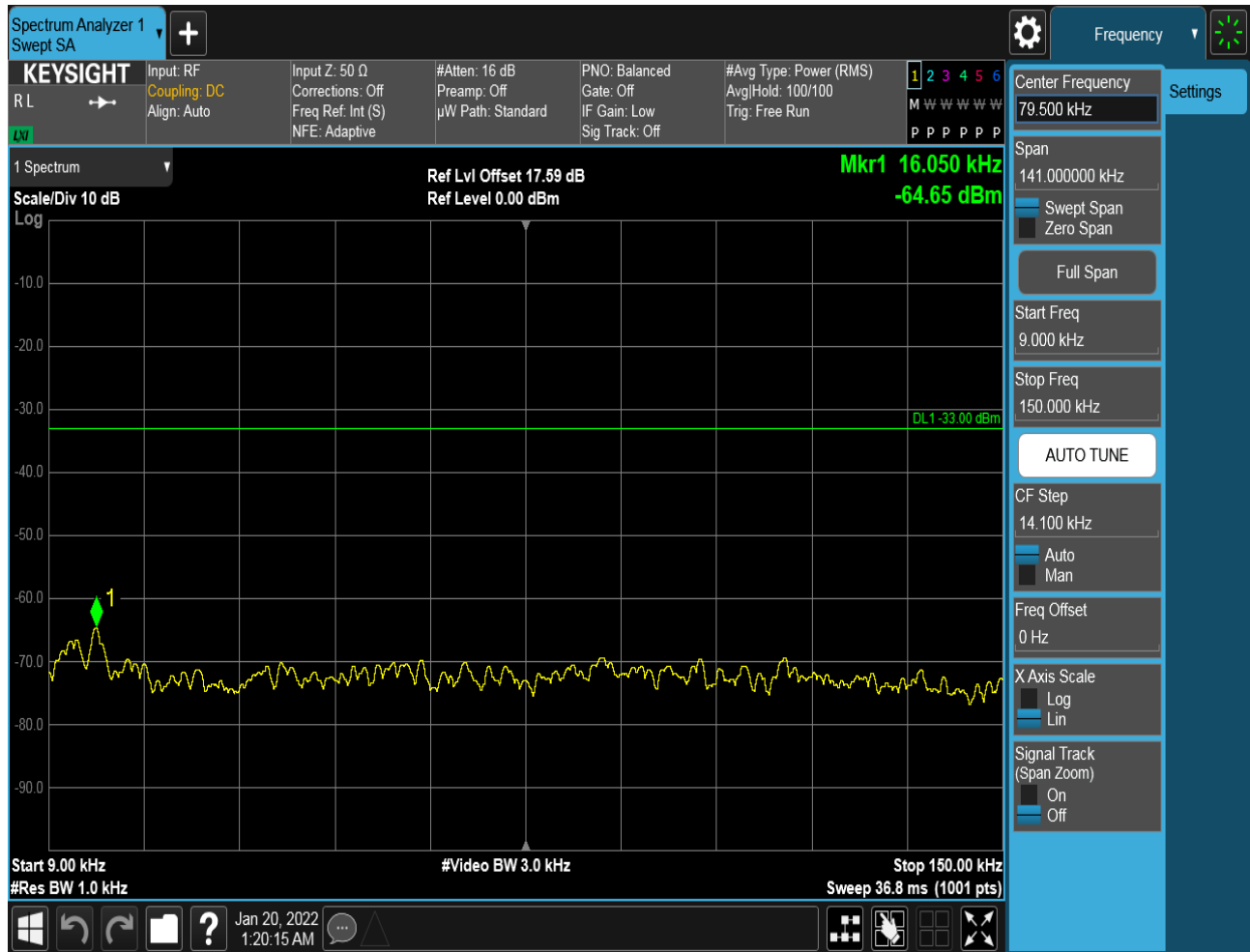


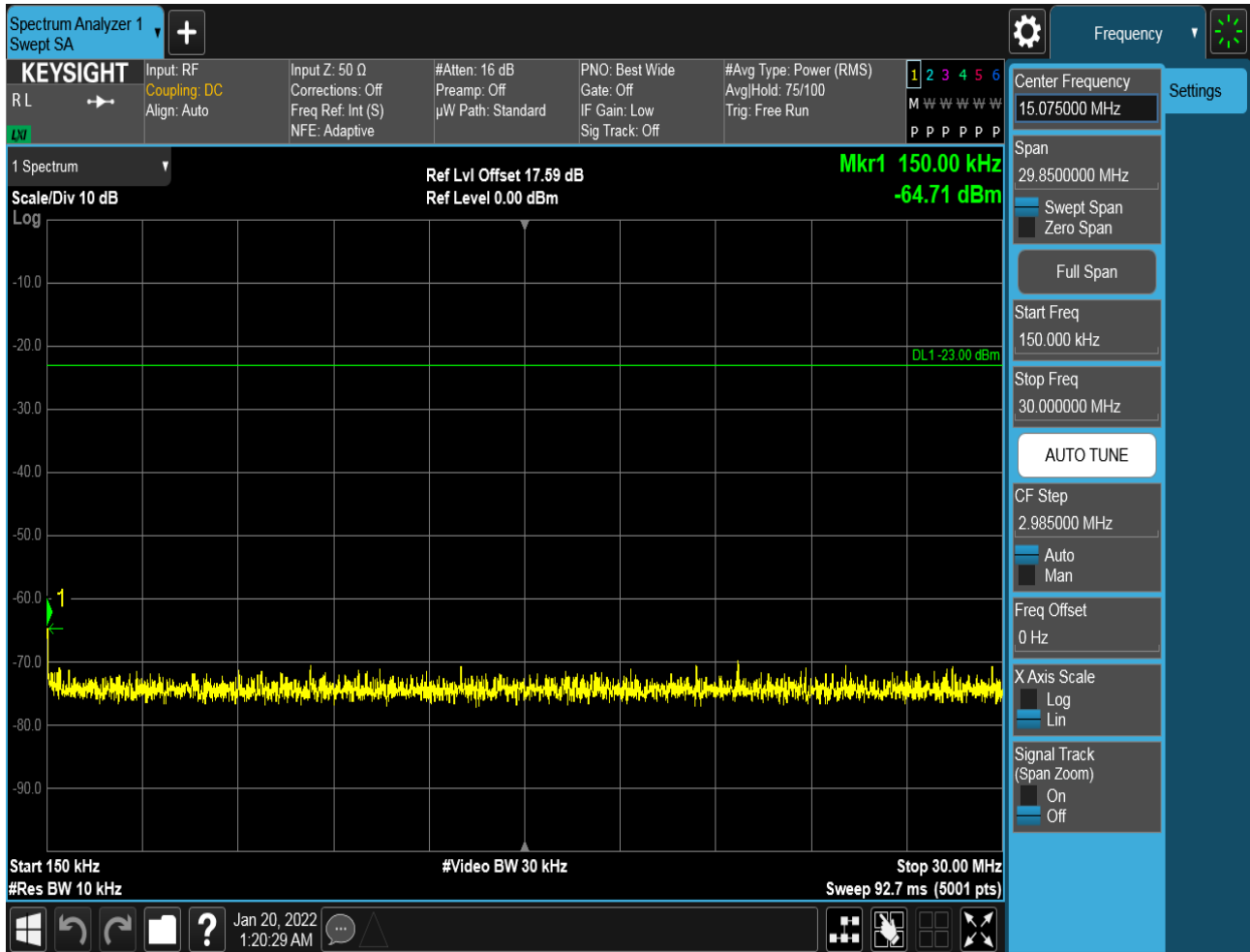


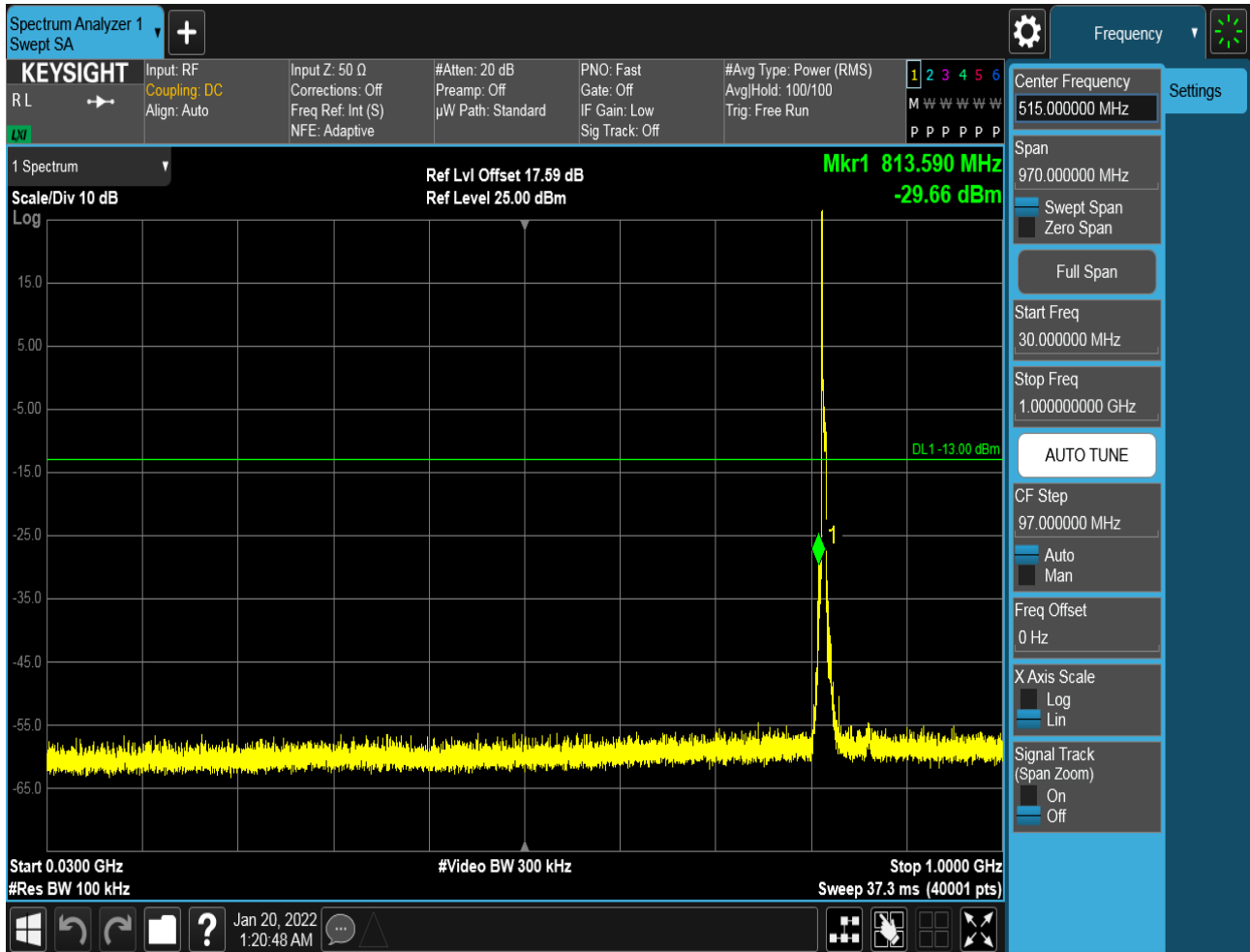


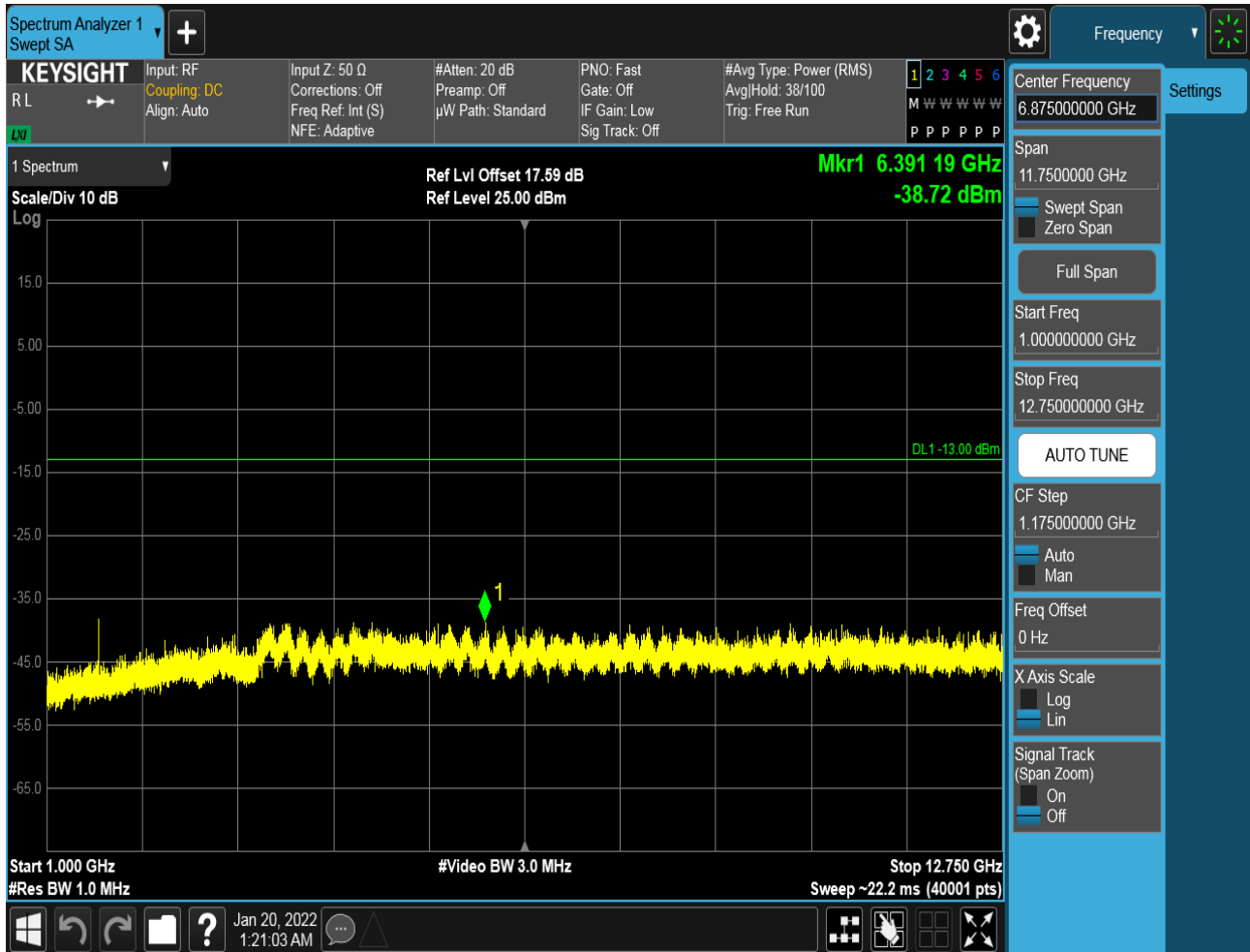
6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0



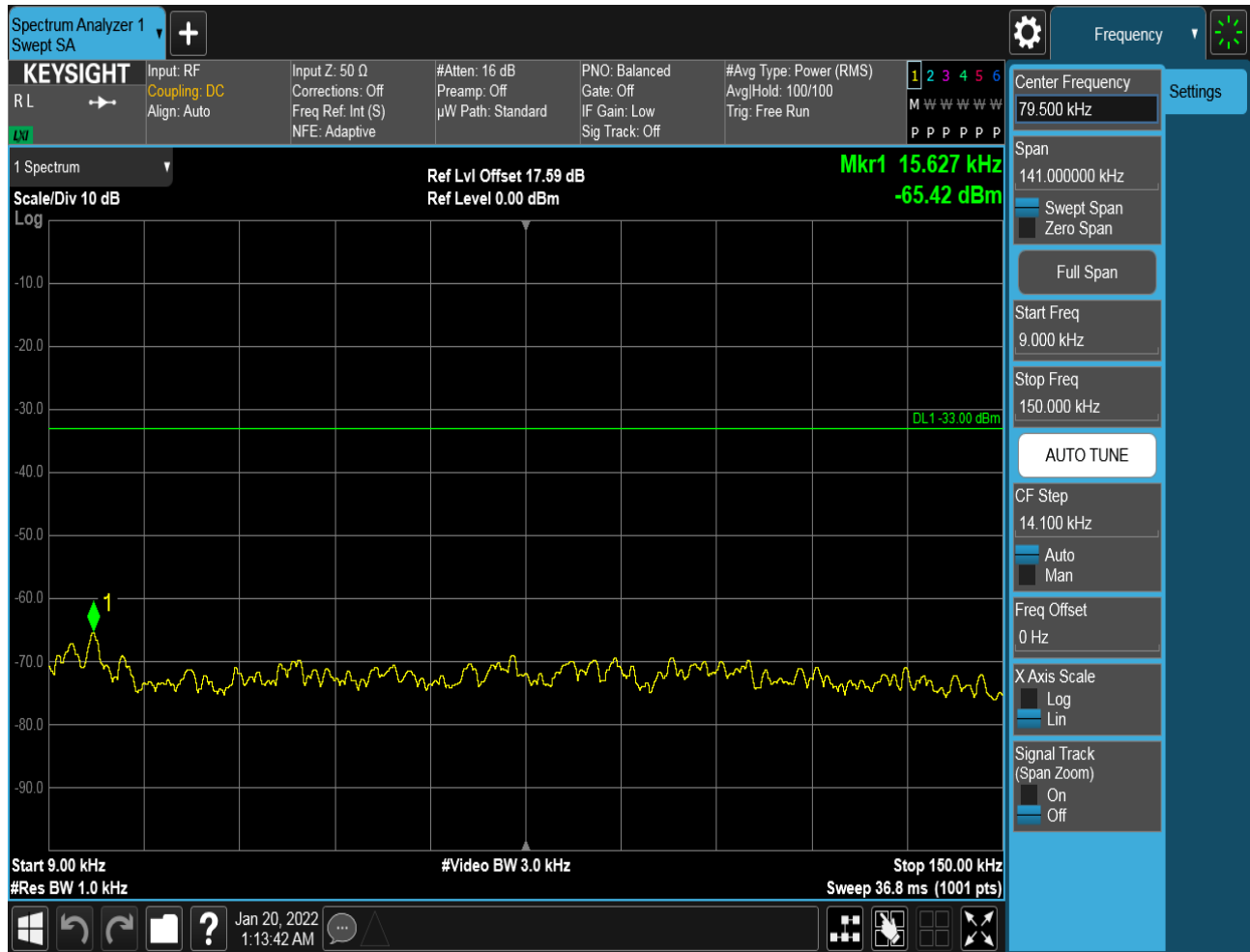


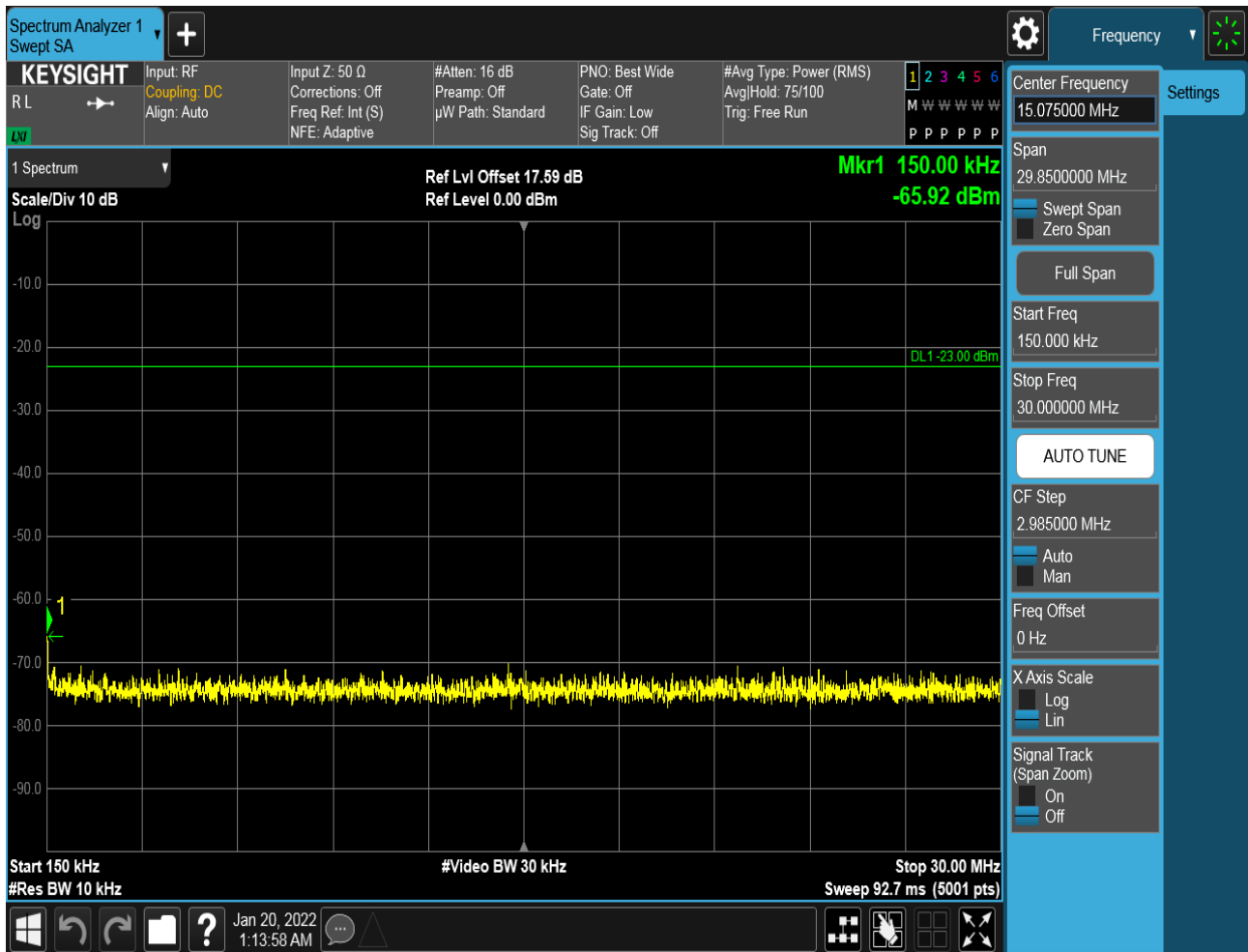


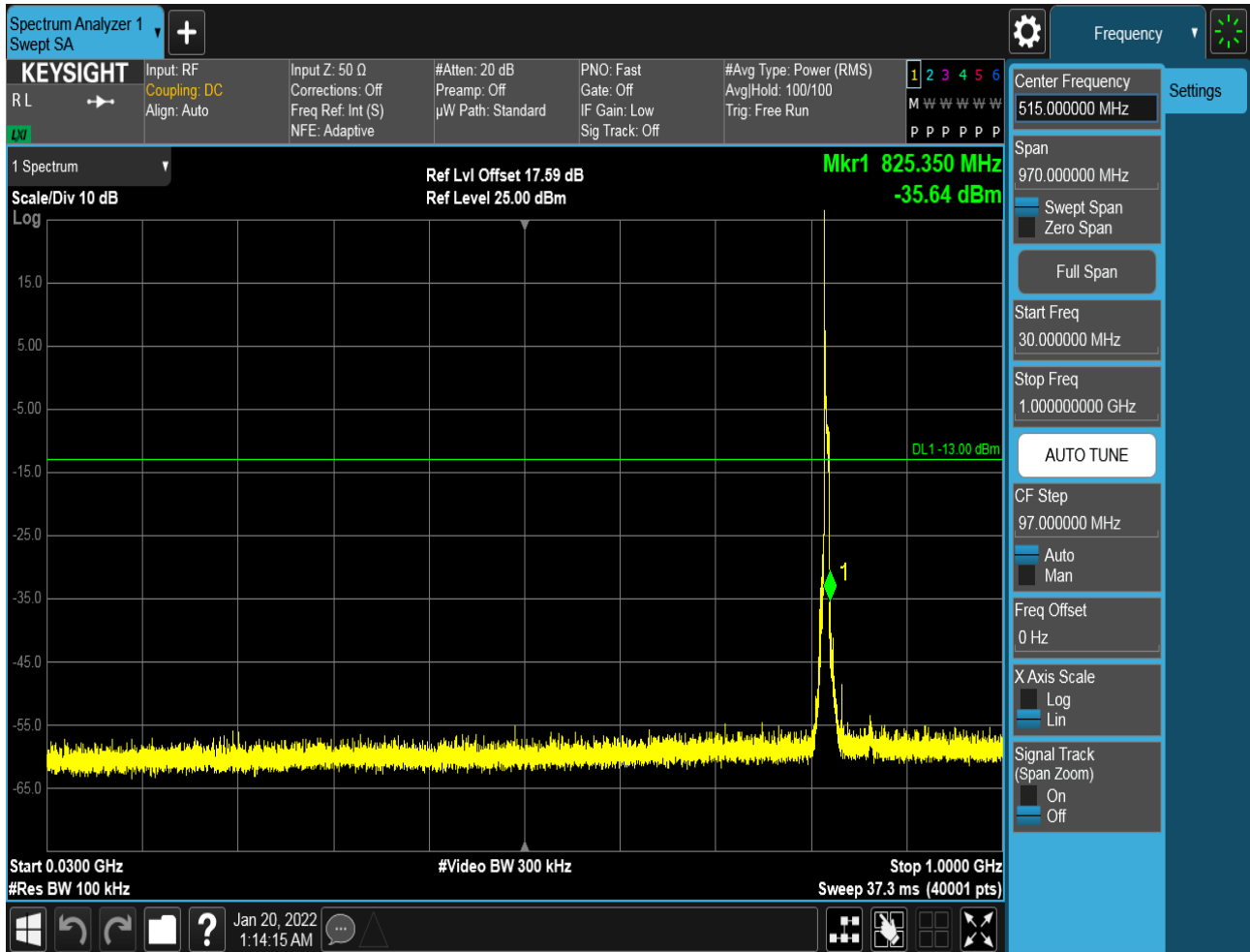


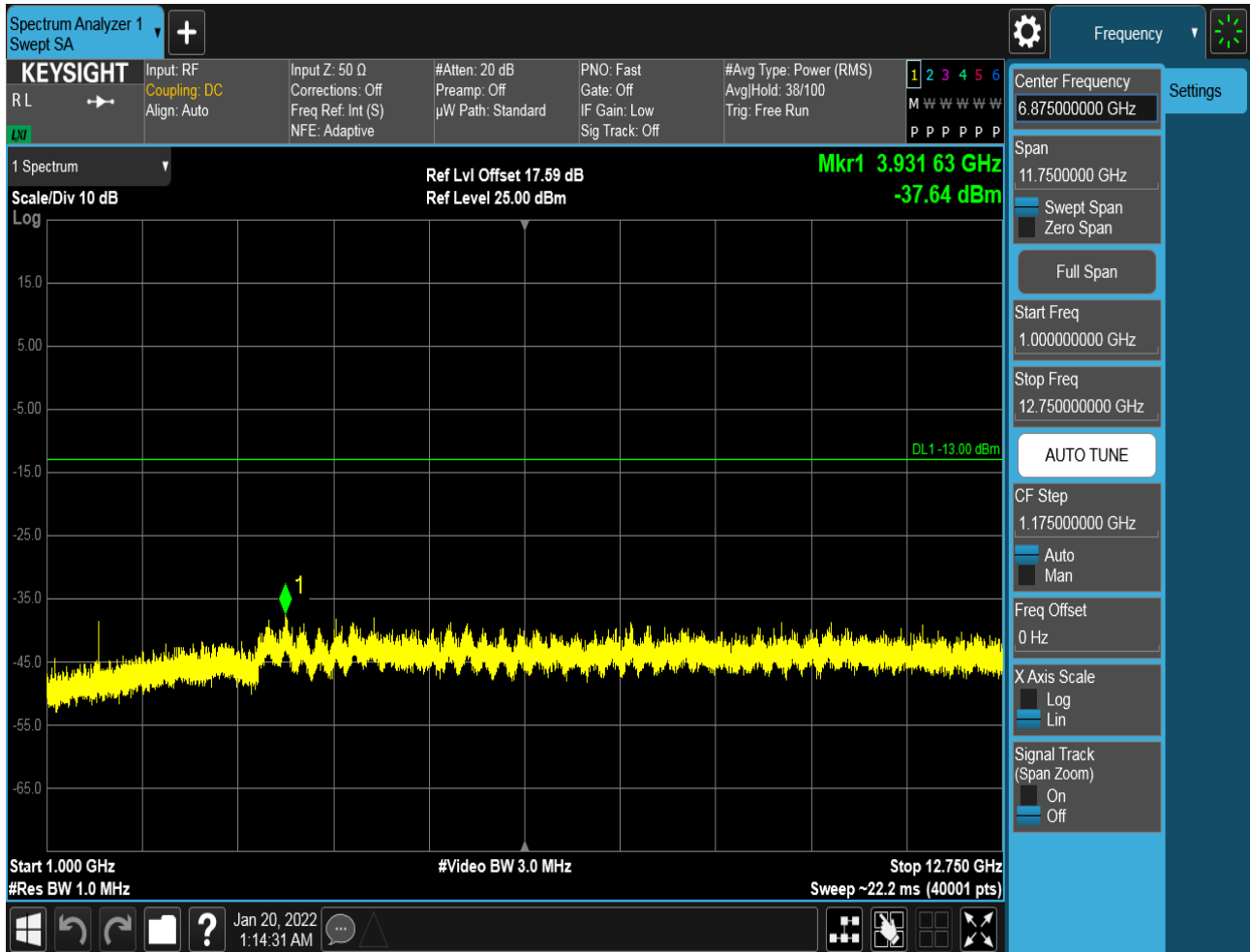
6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0





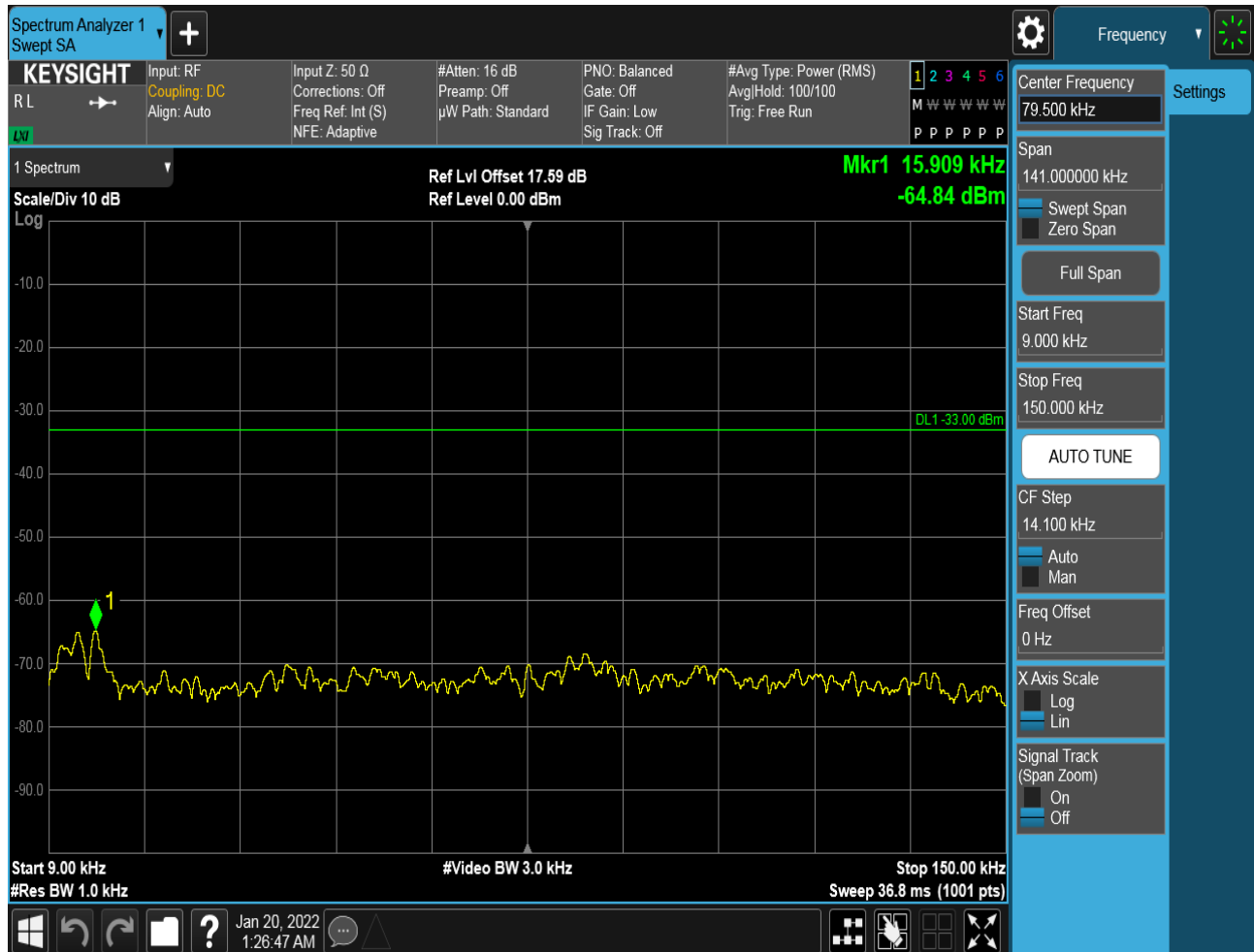


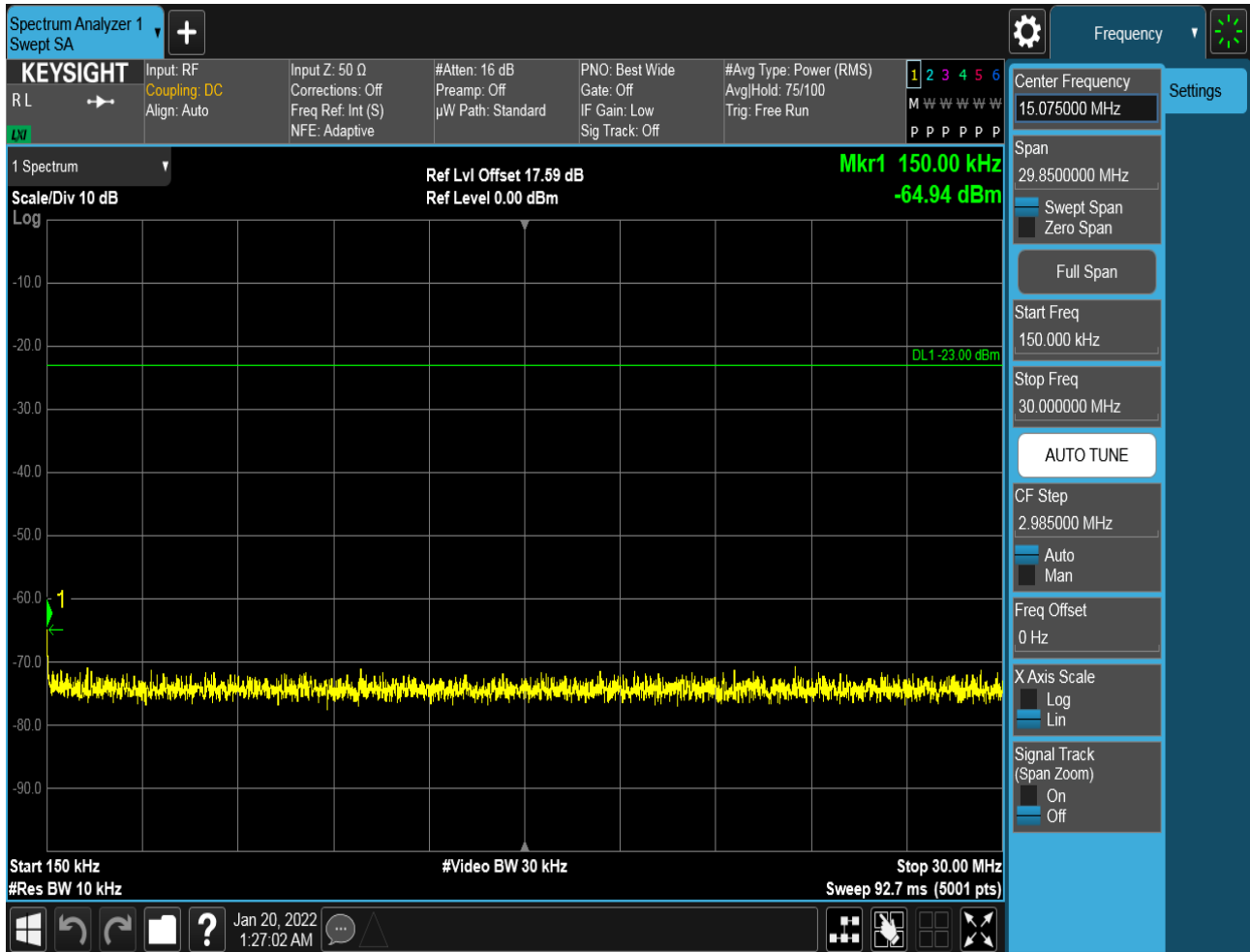


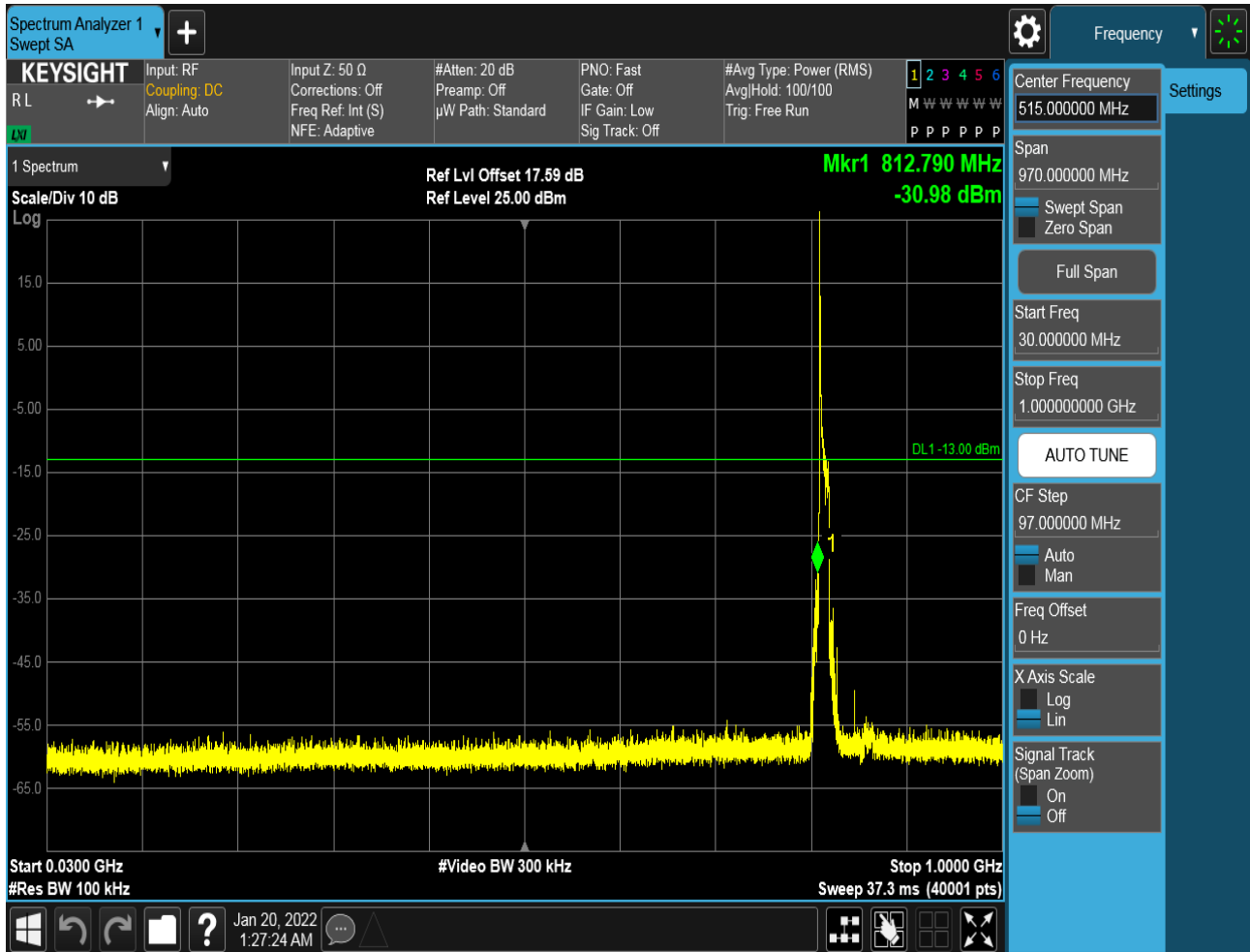
6.2.1.1.4 Test Bandwidth = 10MHz

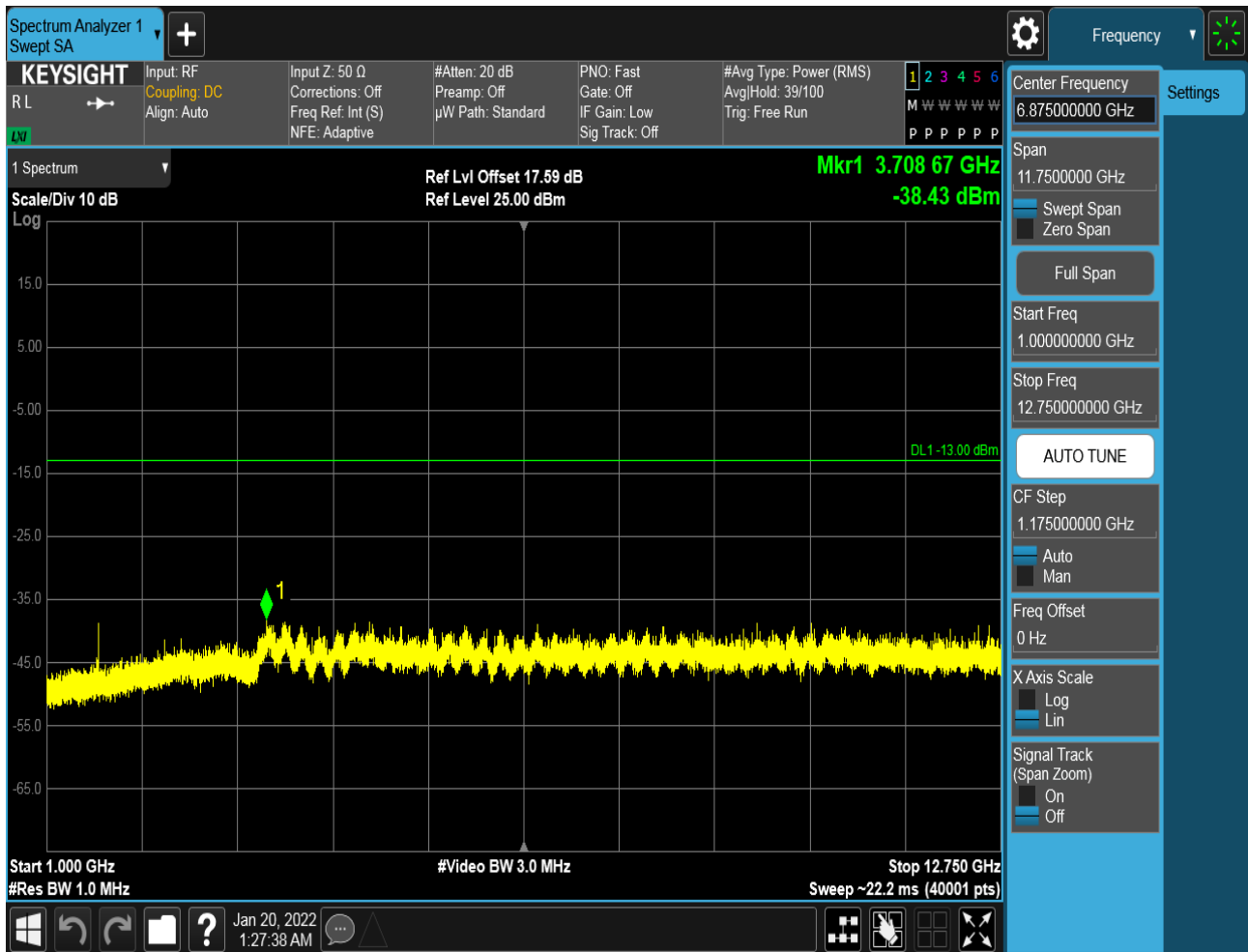
6.2.1.1.4.1 Test Channel = MCH

6.2.1.1.4.1.1 Test RB = RB1#0







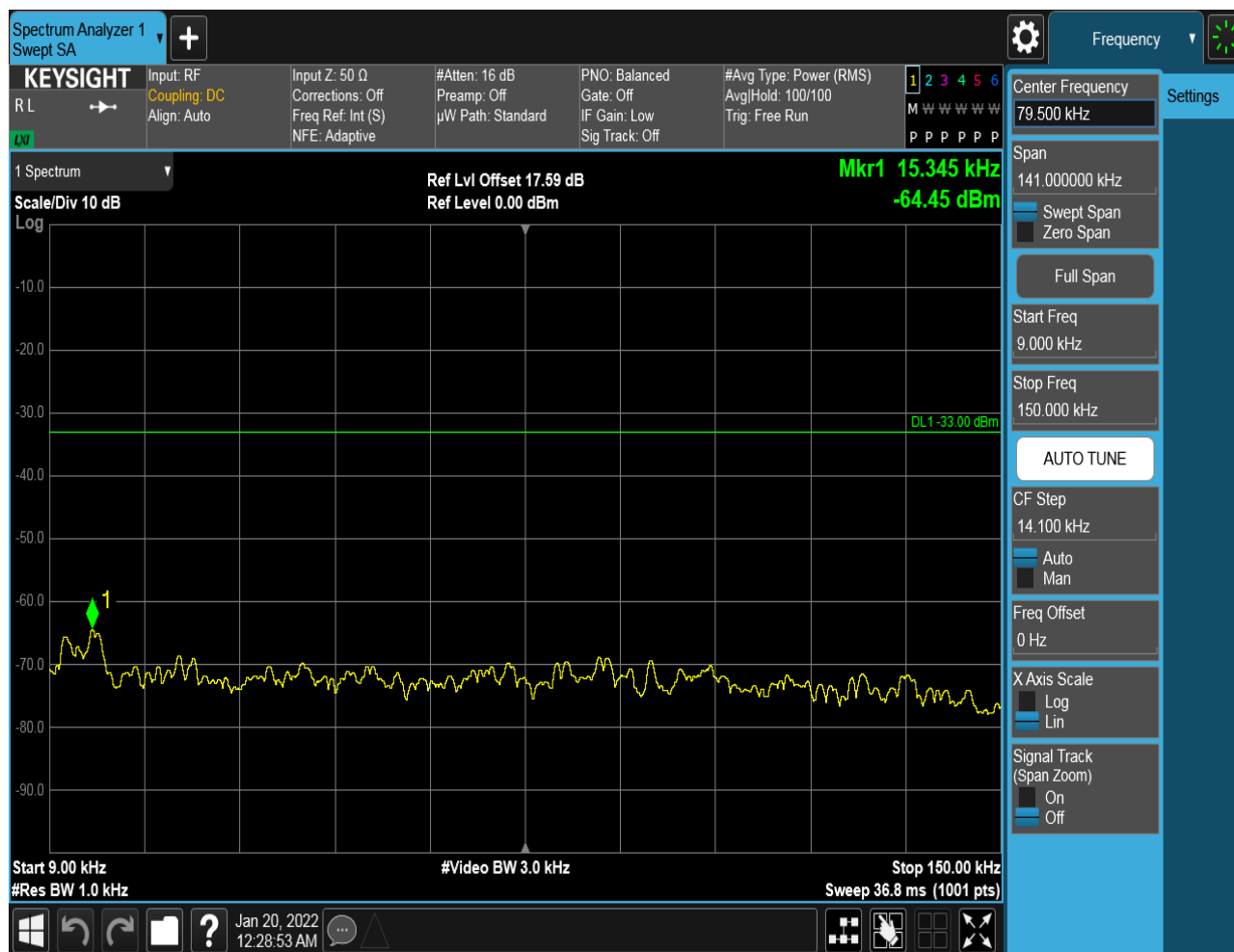


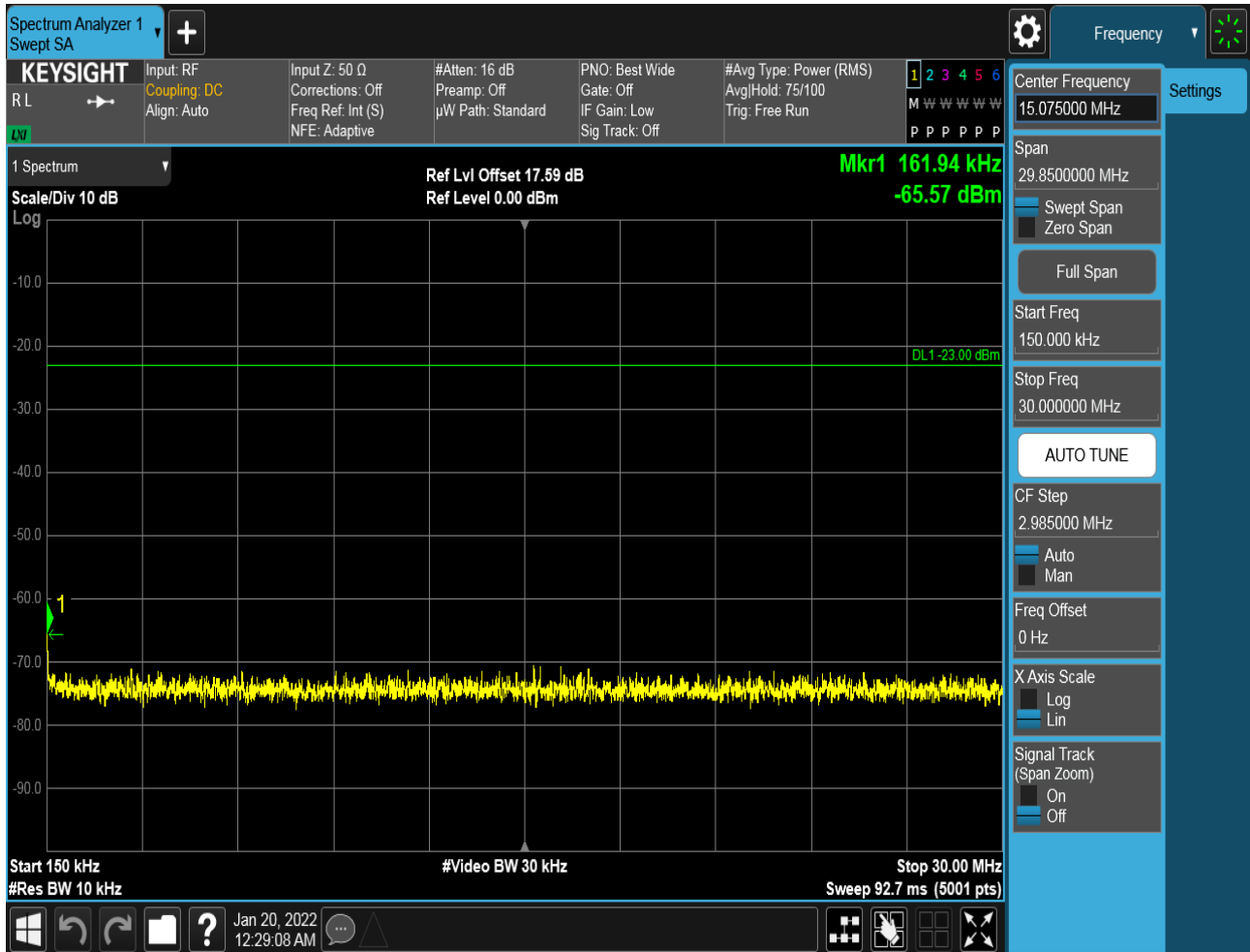
6.2.1.2 Test Mode = LTE/TM2

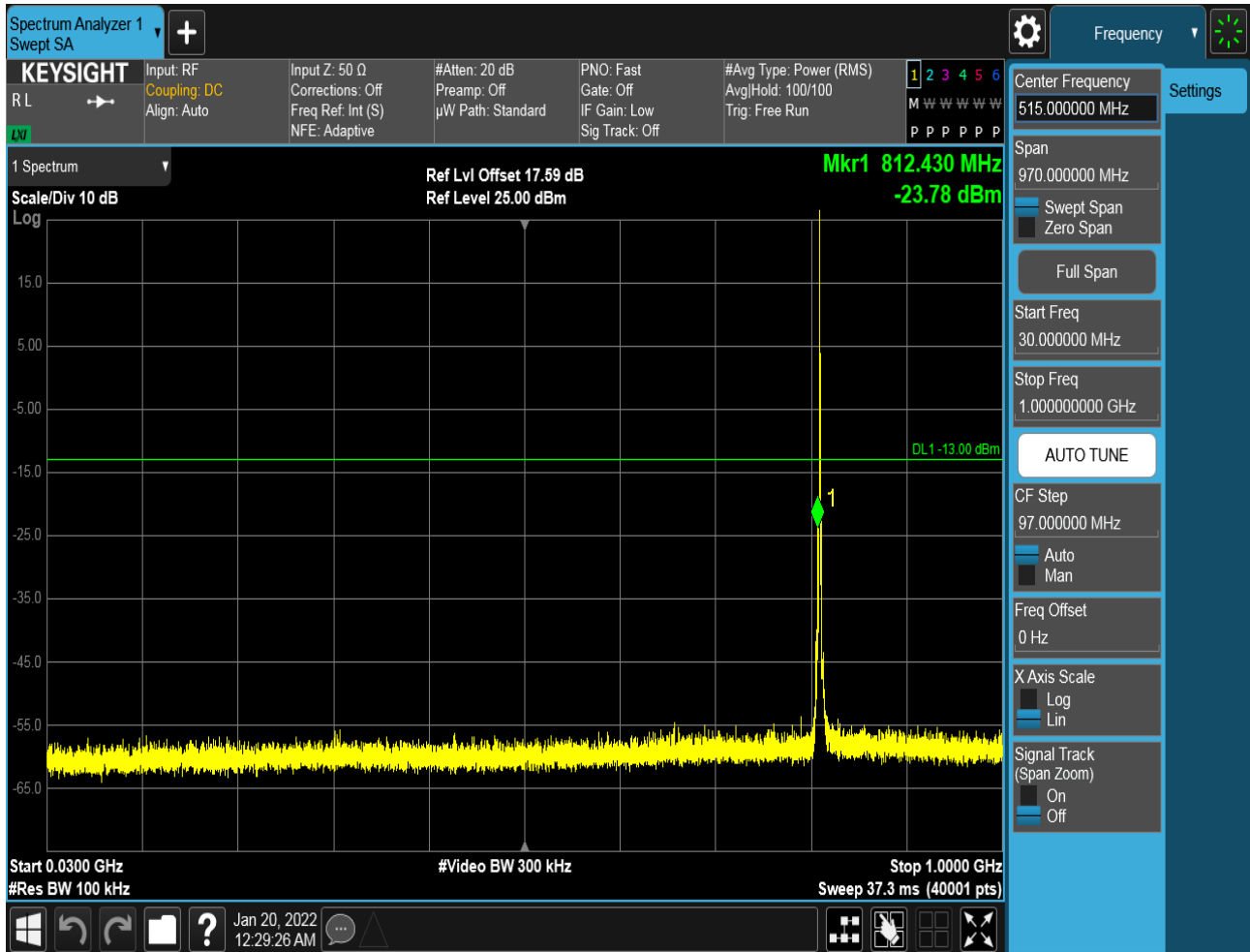
6.2.1.2.1 Test Bandwidth = 1.4MHz

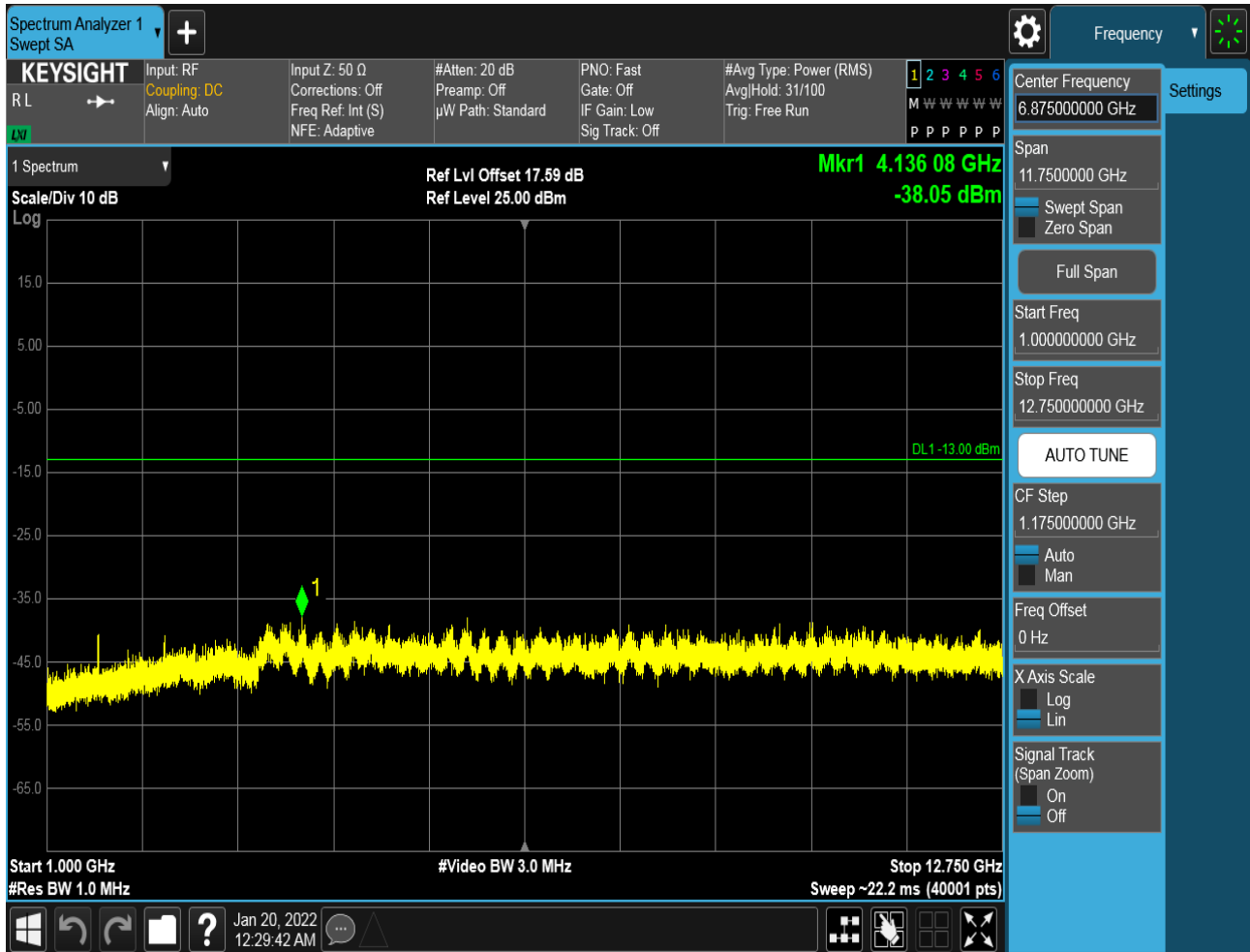
6.2.1.2.1.1 Test Channel = LCH

6.2.1.2.1.1.1 Test RB = RB1#0





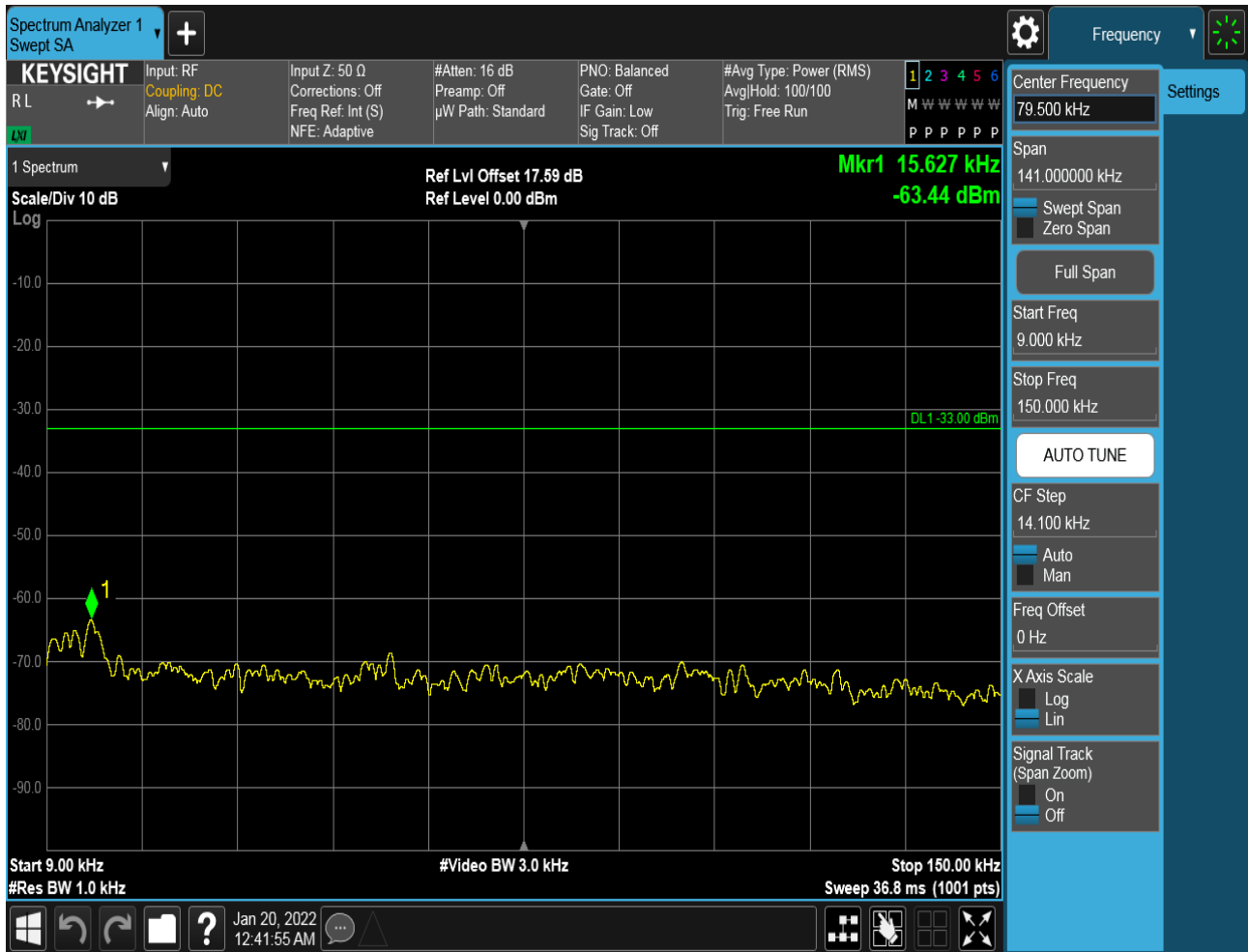


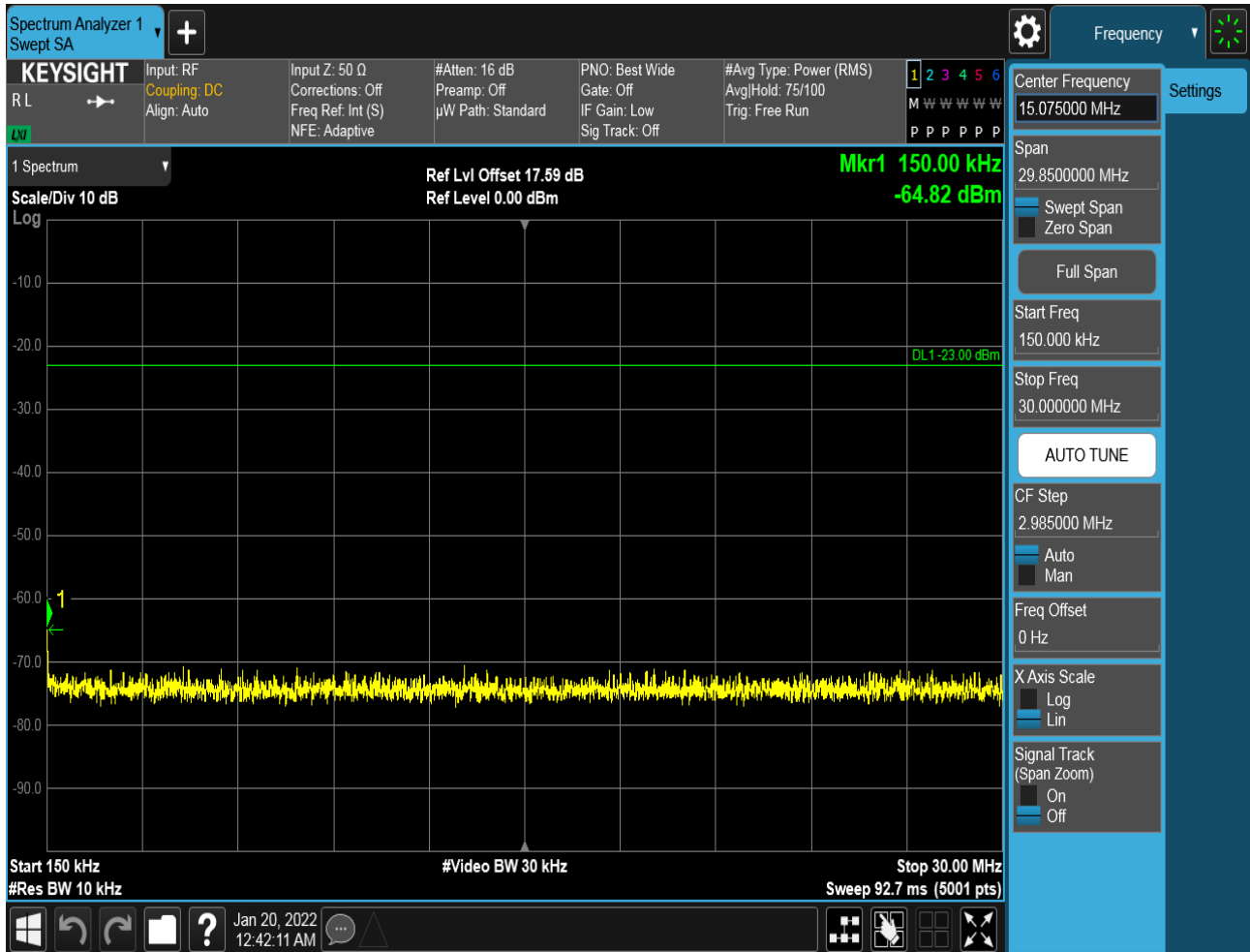


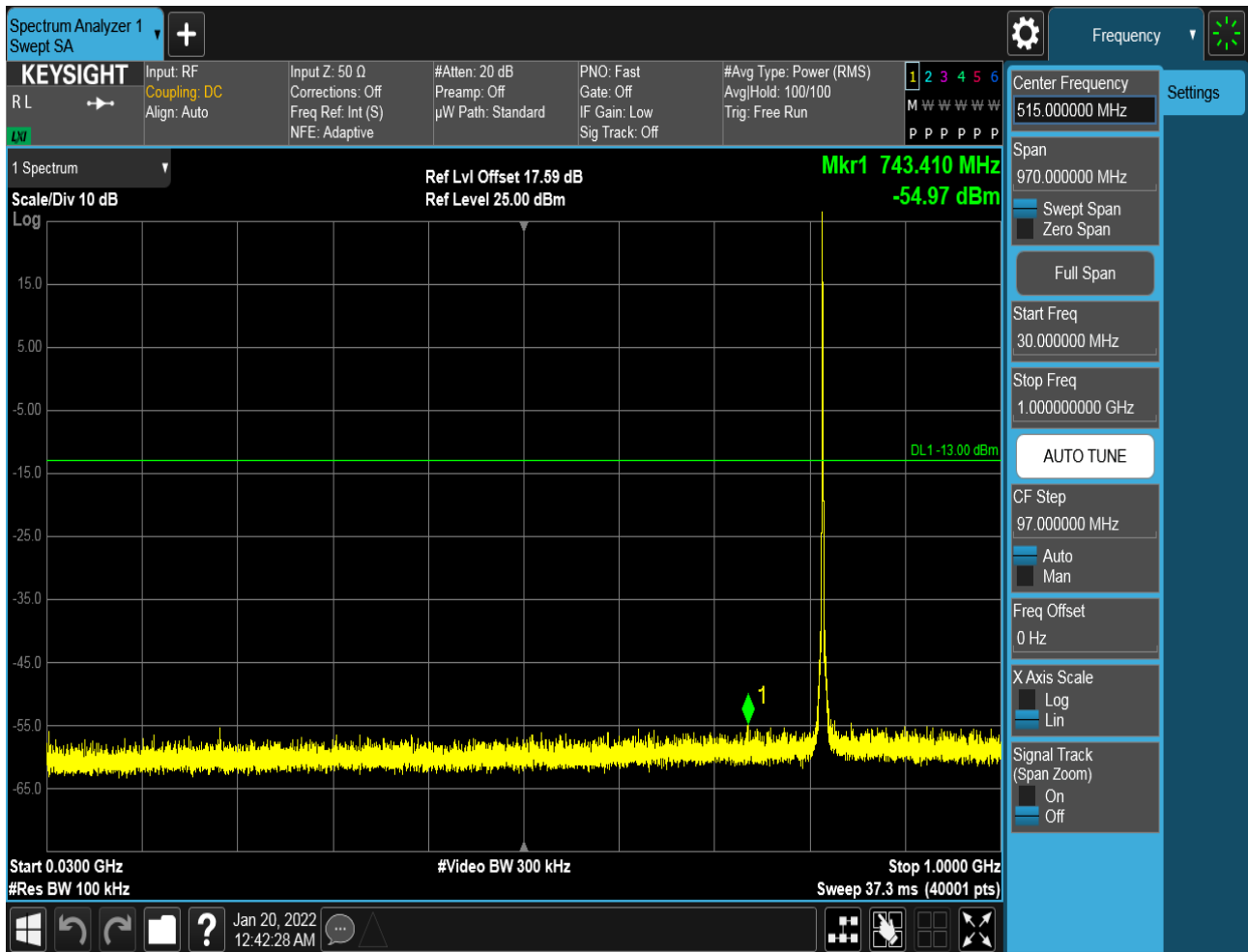


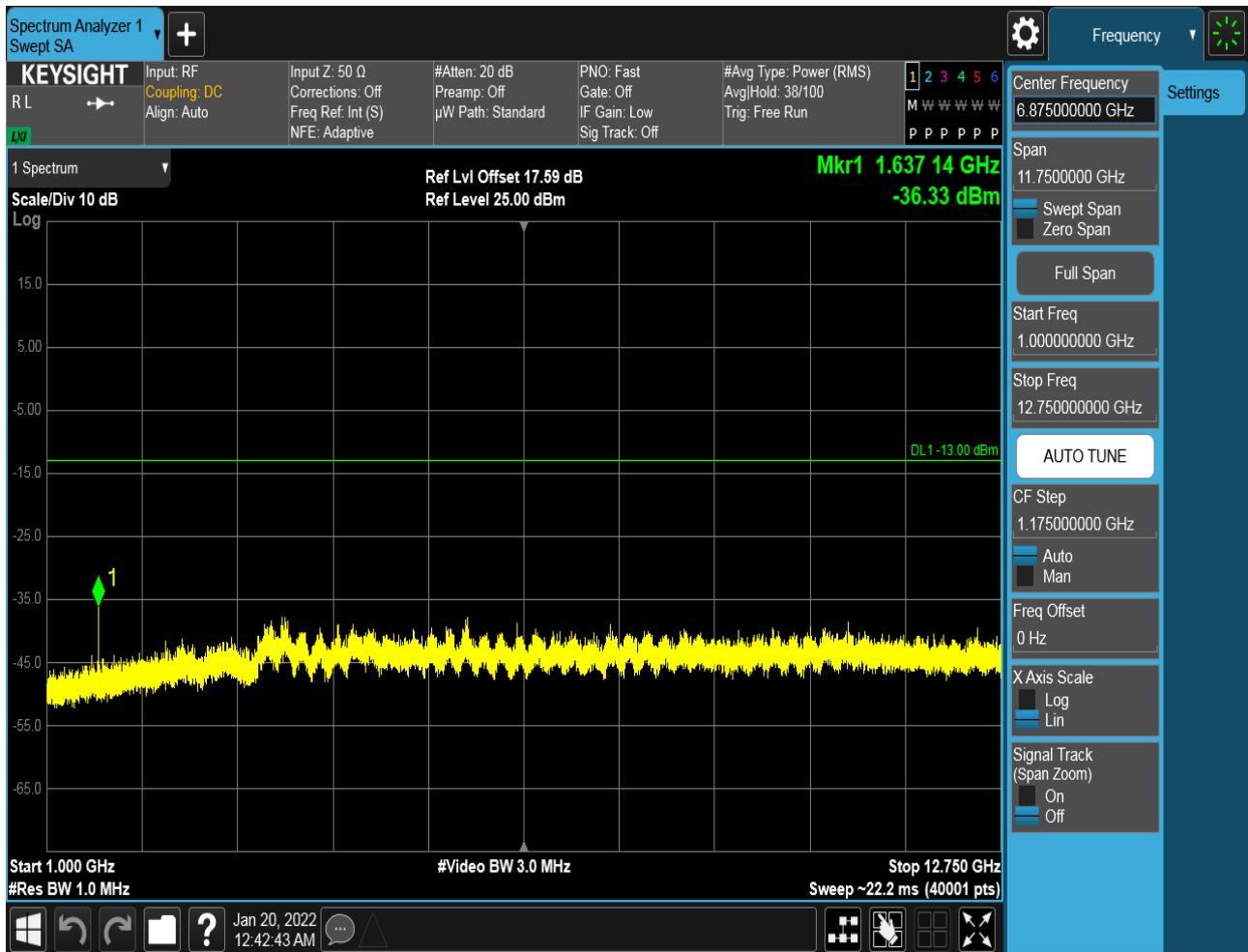
6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0





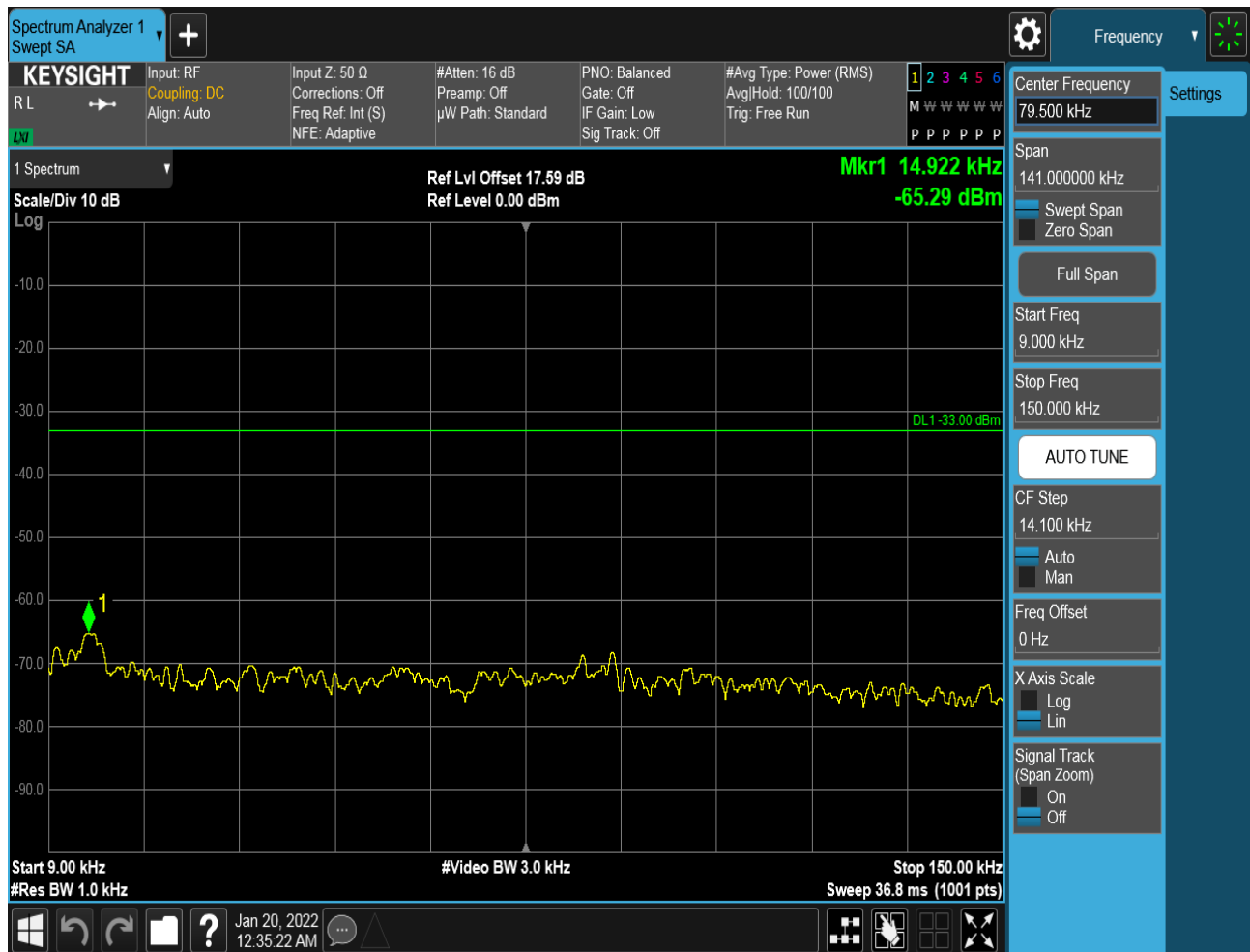


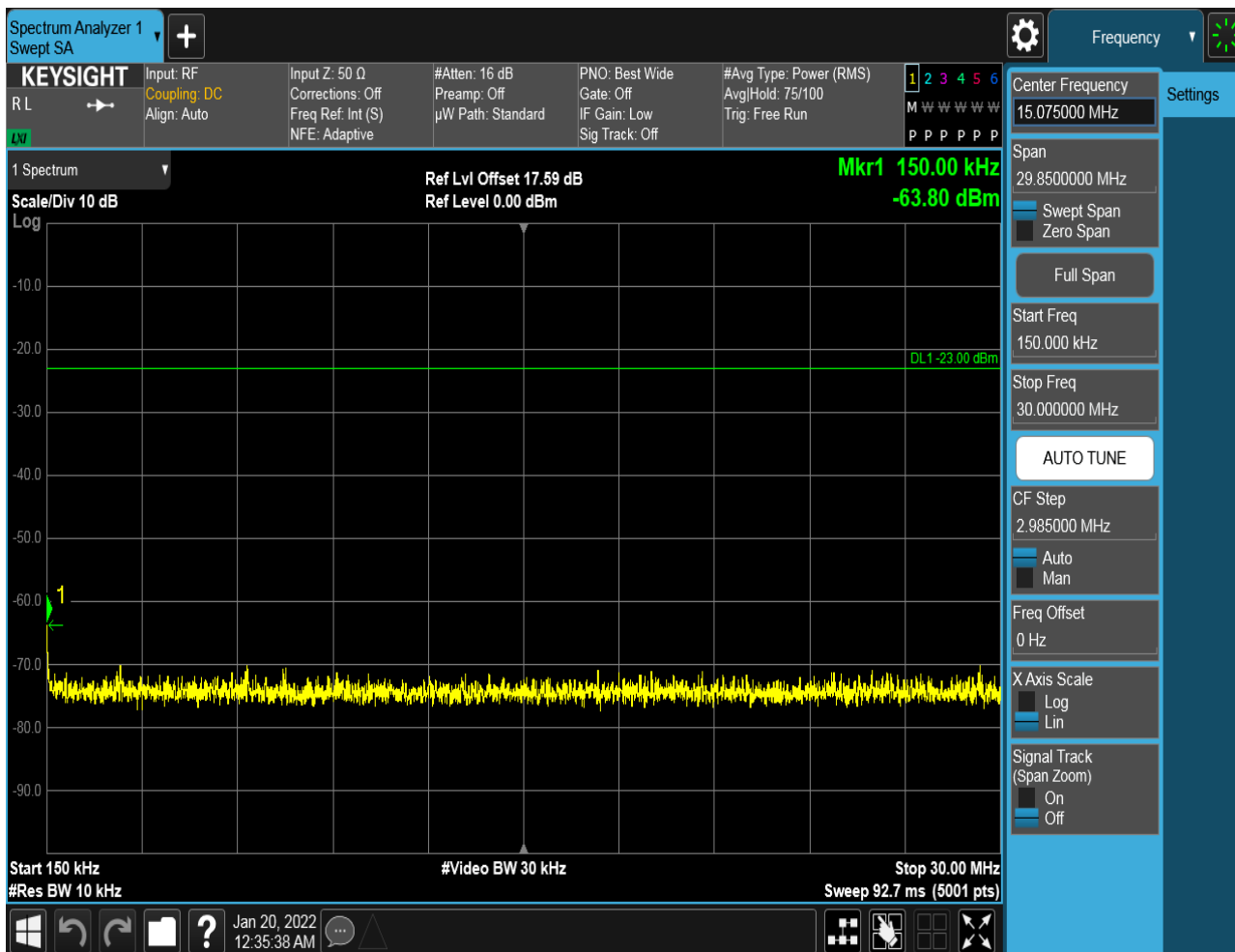


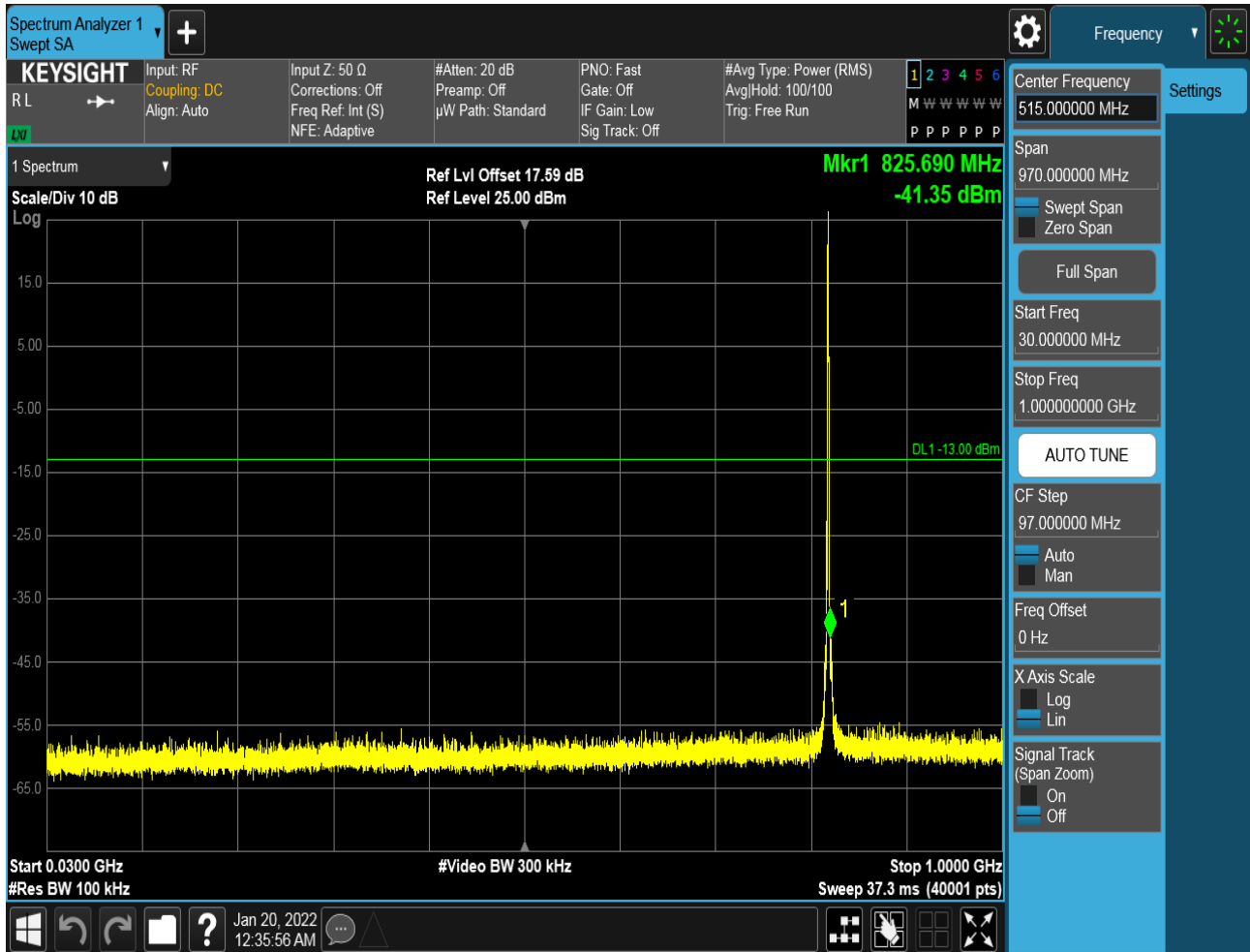


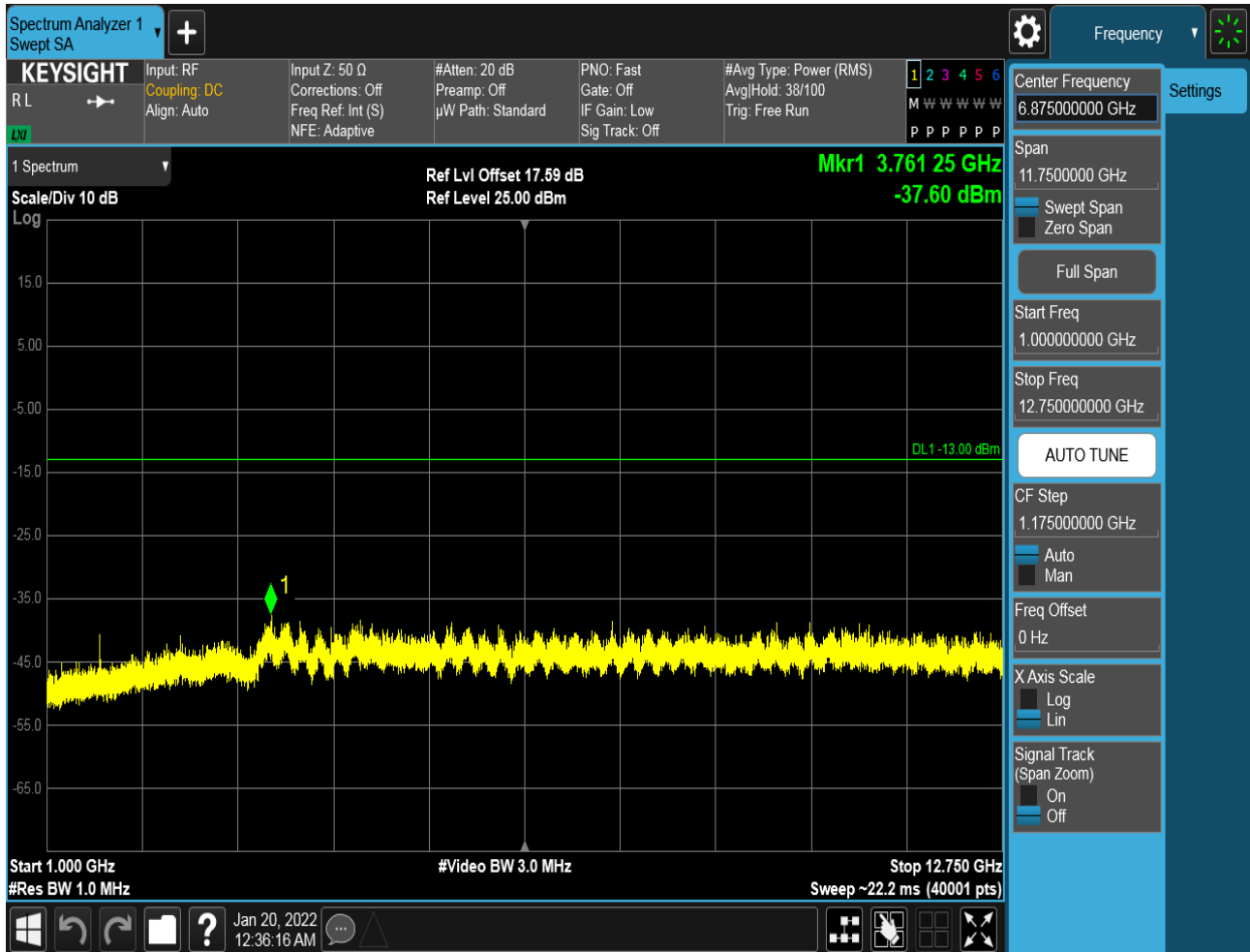
6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0







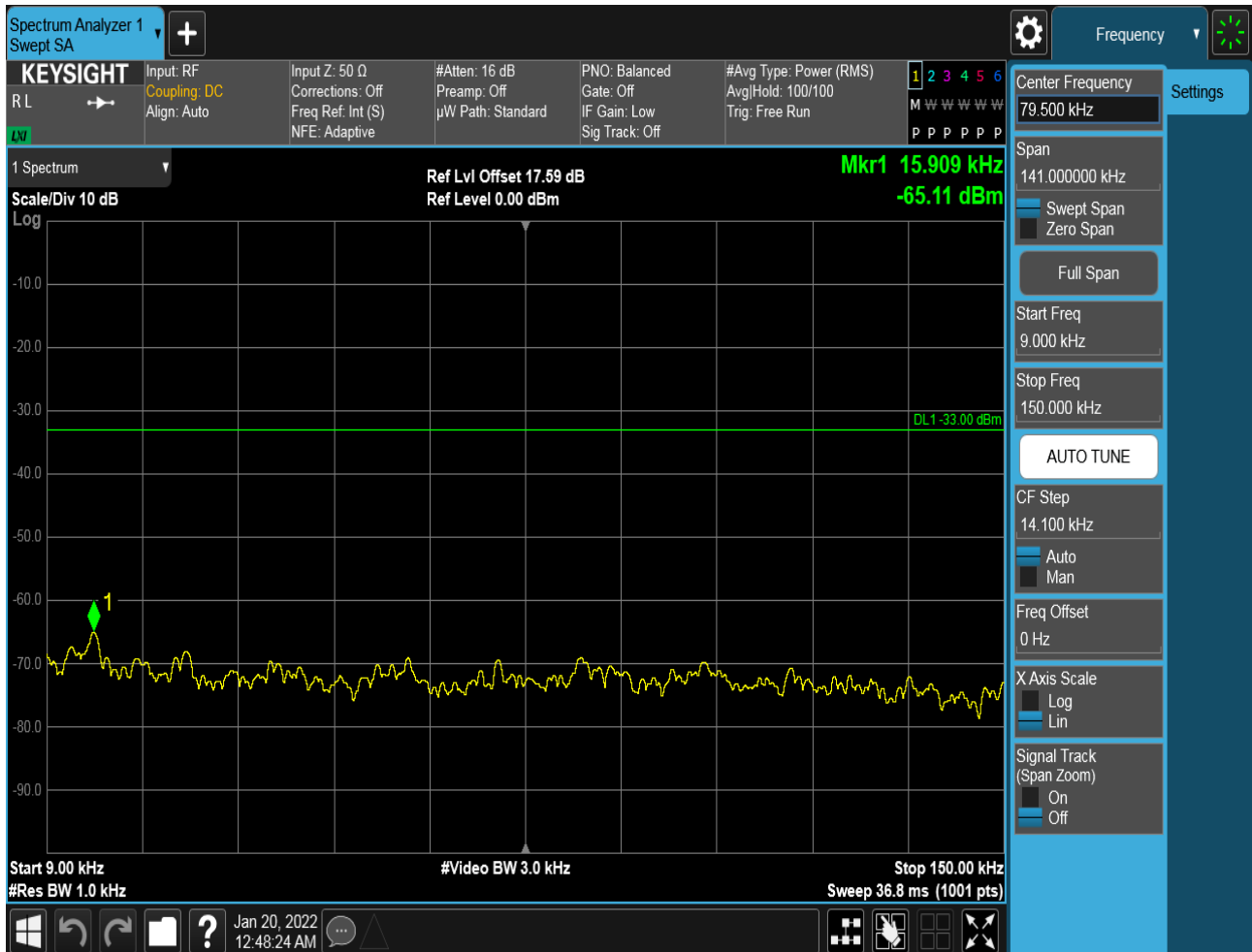


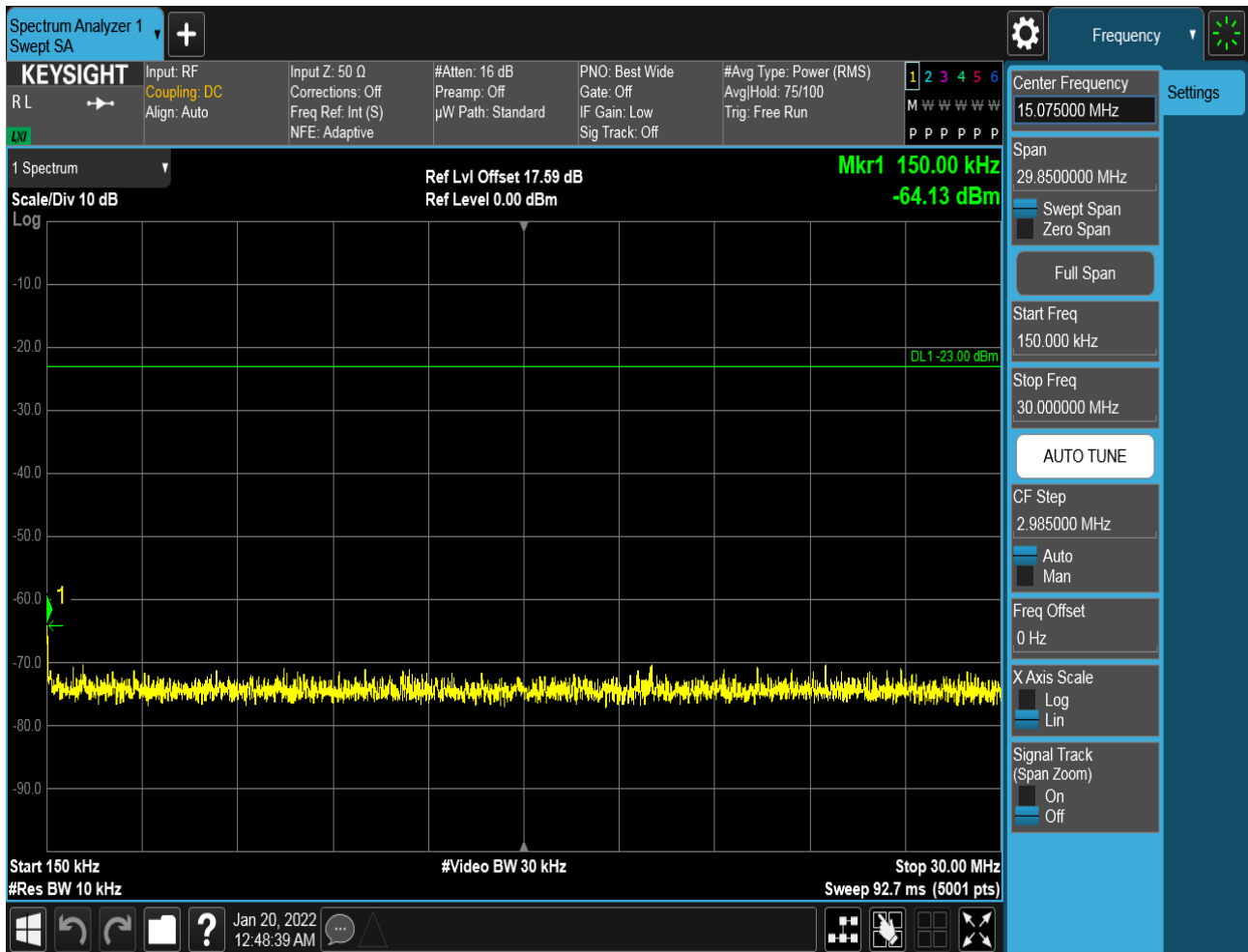


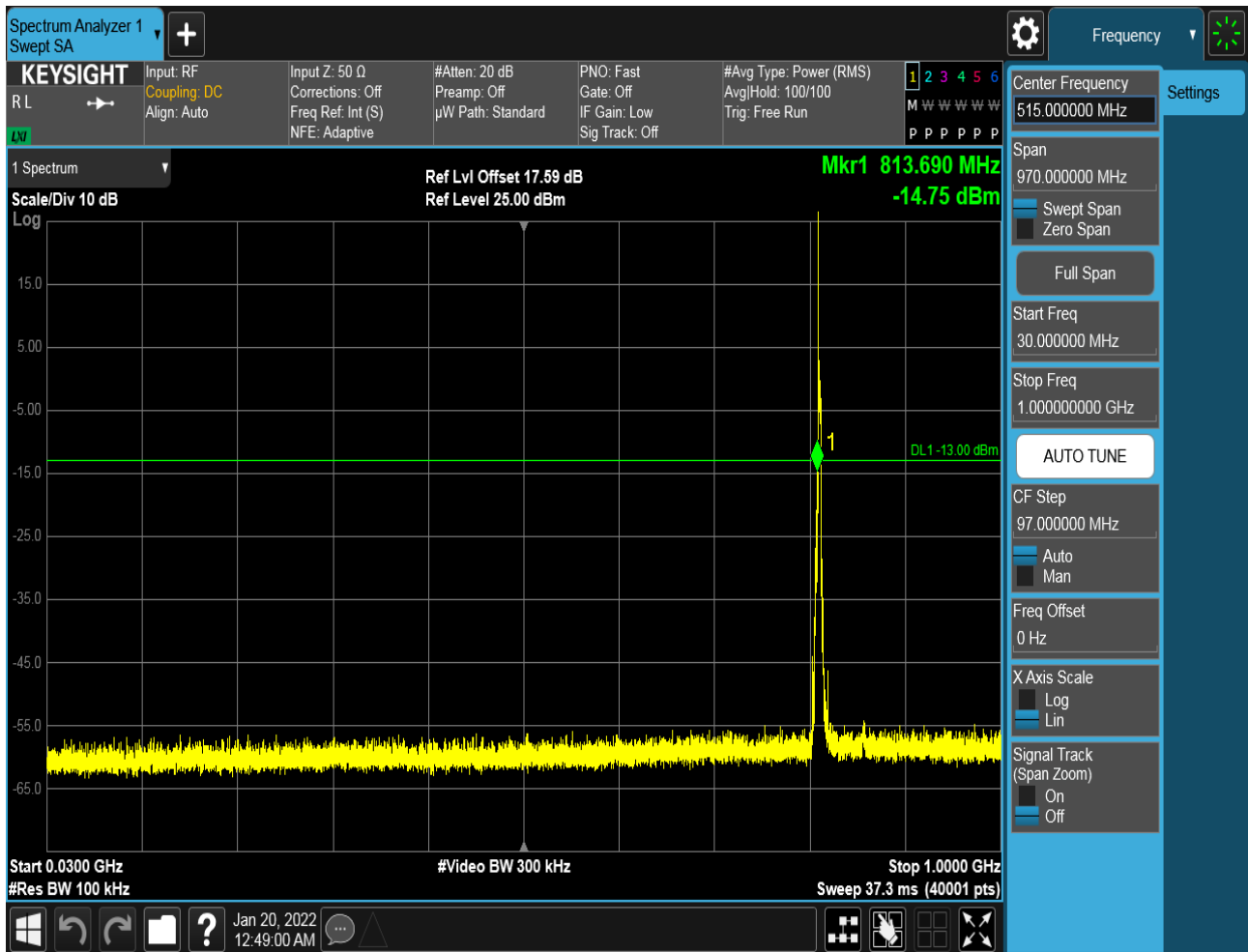
6.2.1.2.2 Test Bandwidth = 3MHz

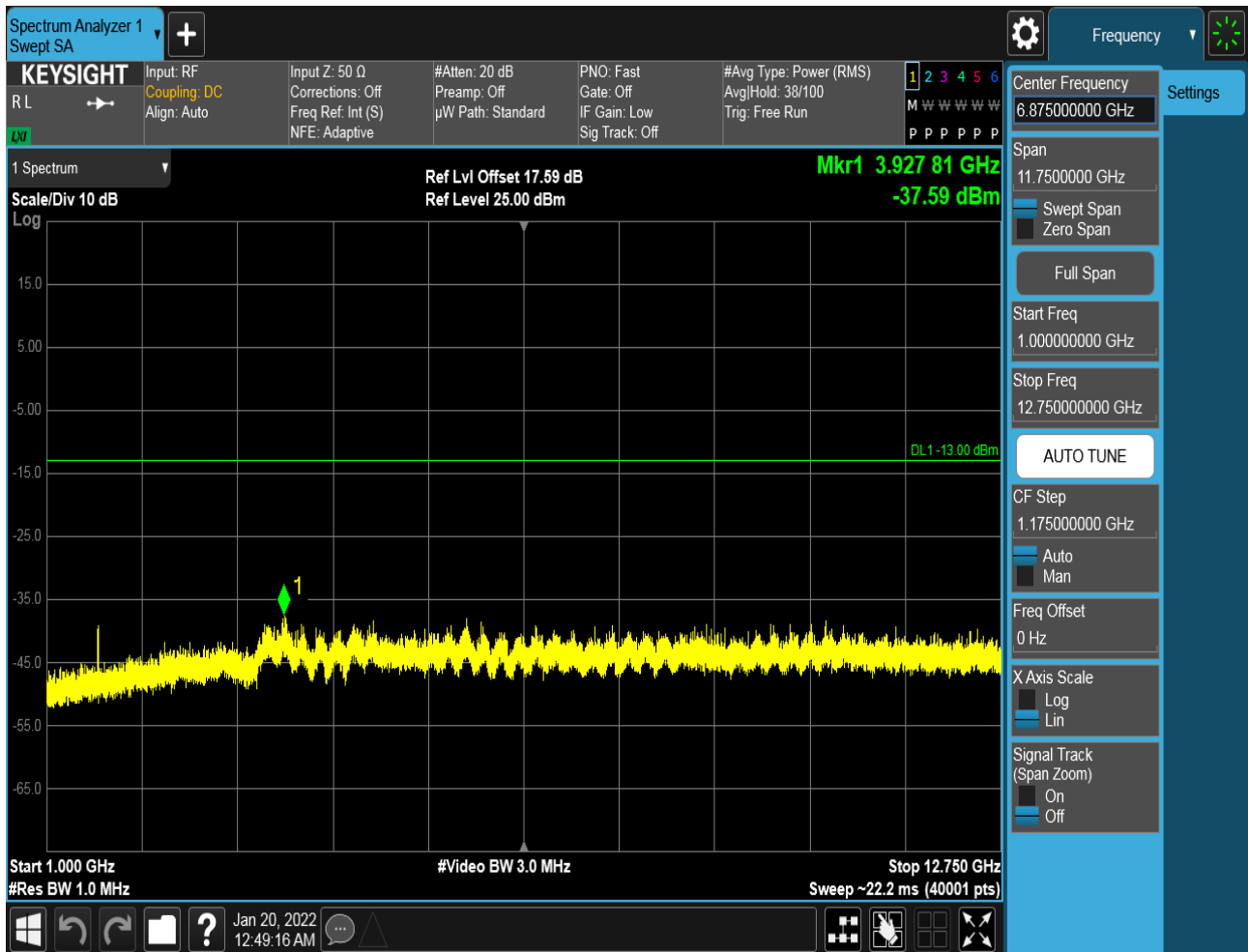
6.2.1.2.2.1 Test Channel = LCH

6.2.1.2.2.1.1 Test RB = RB1#0





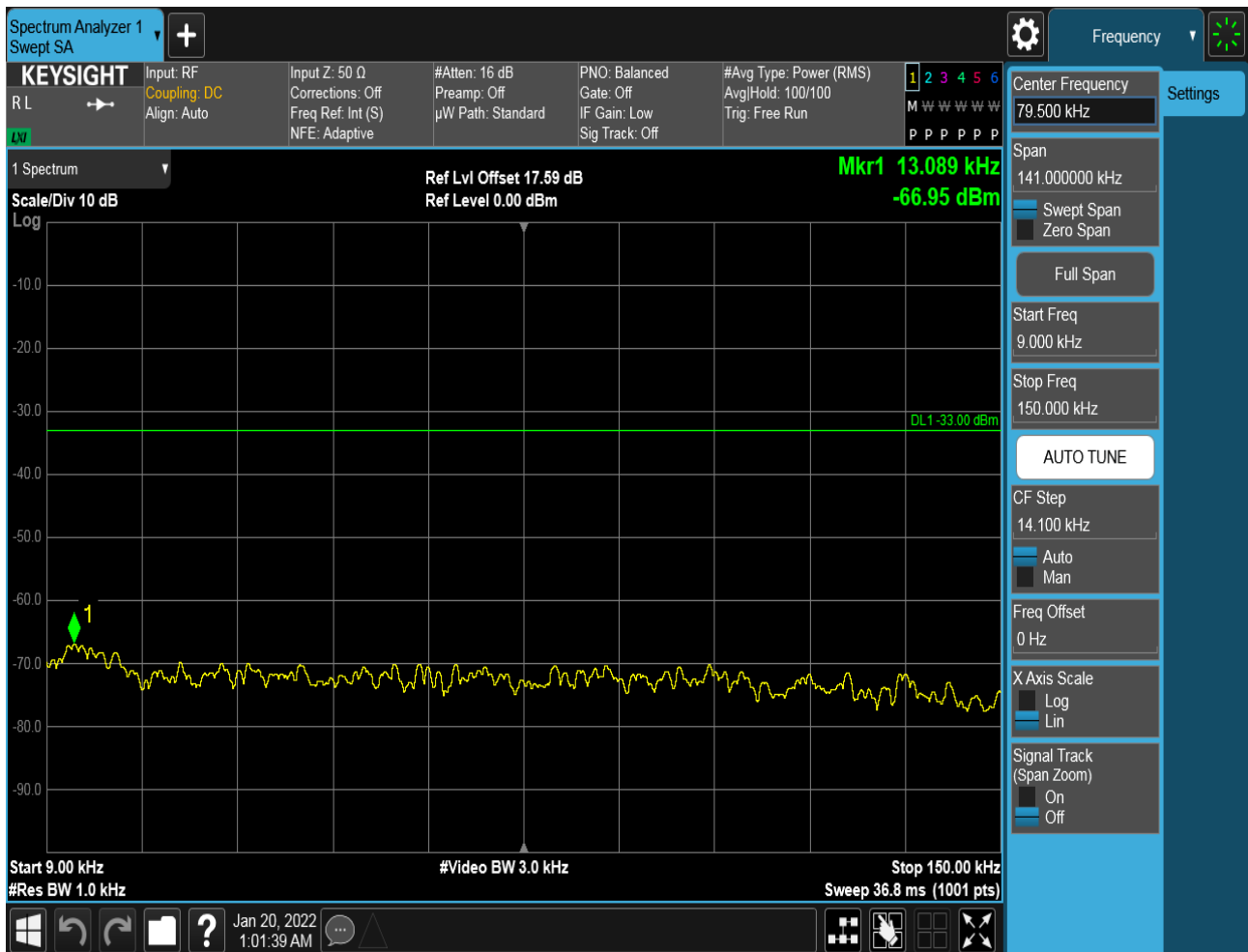


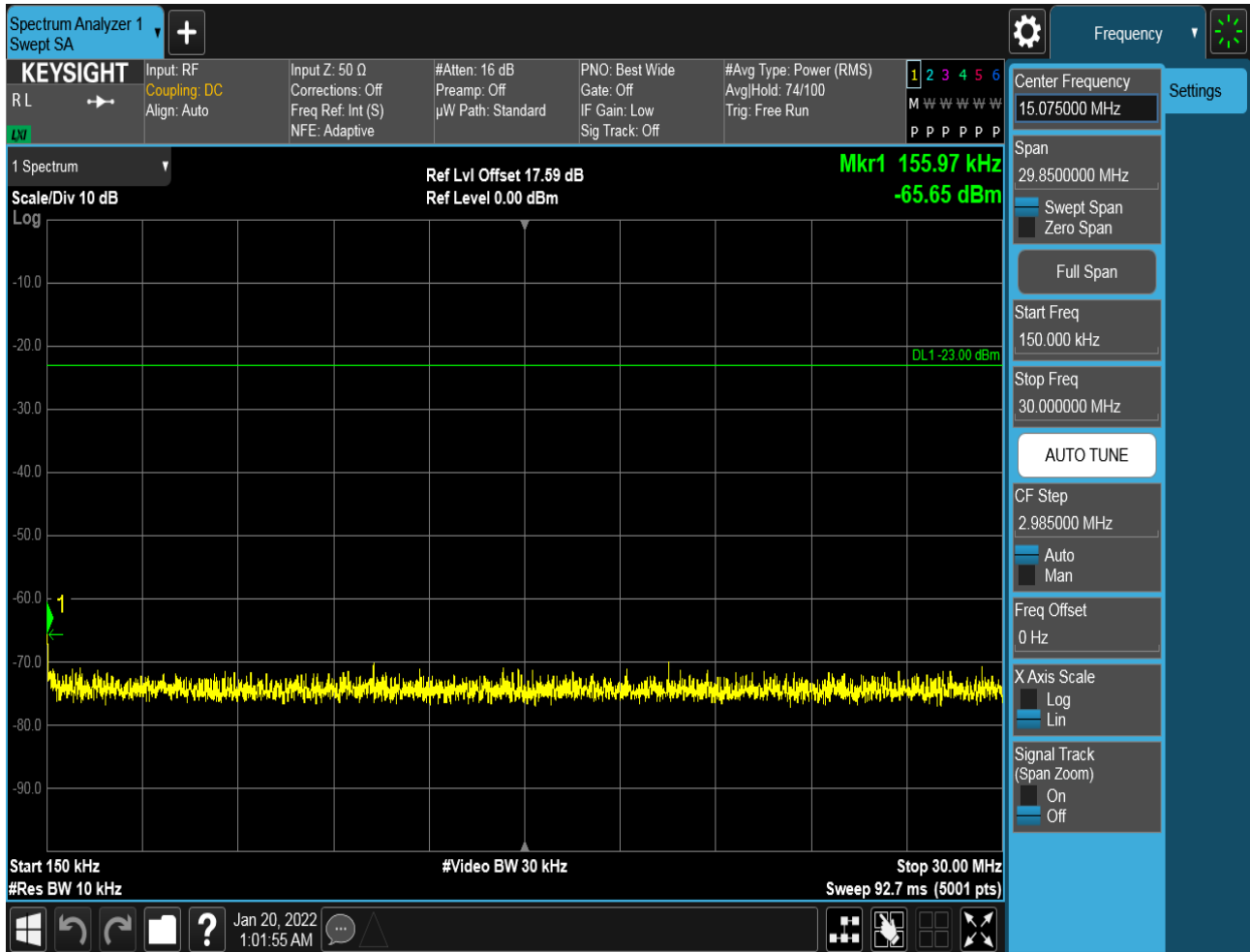


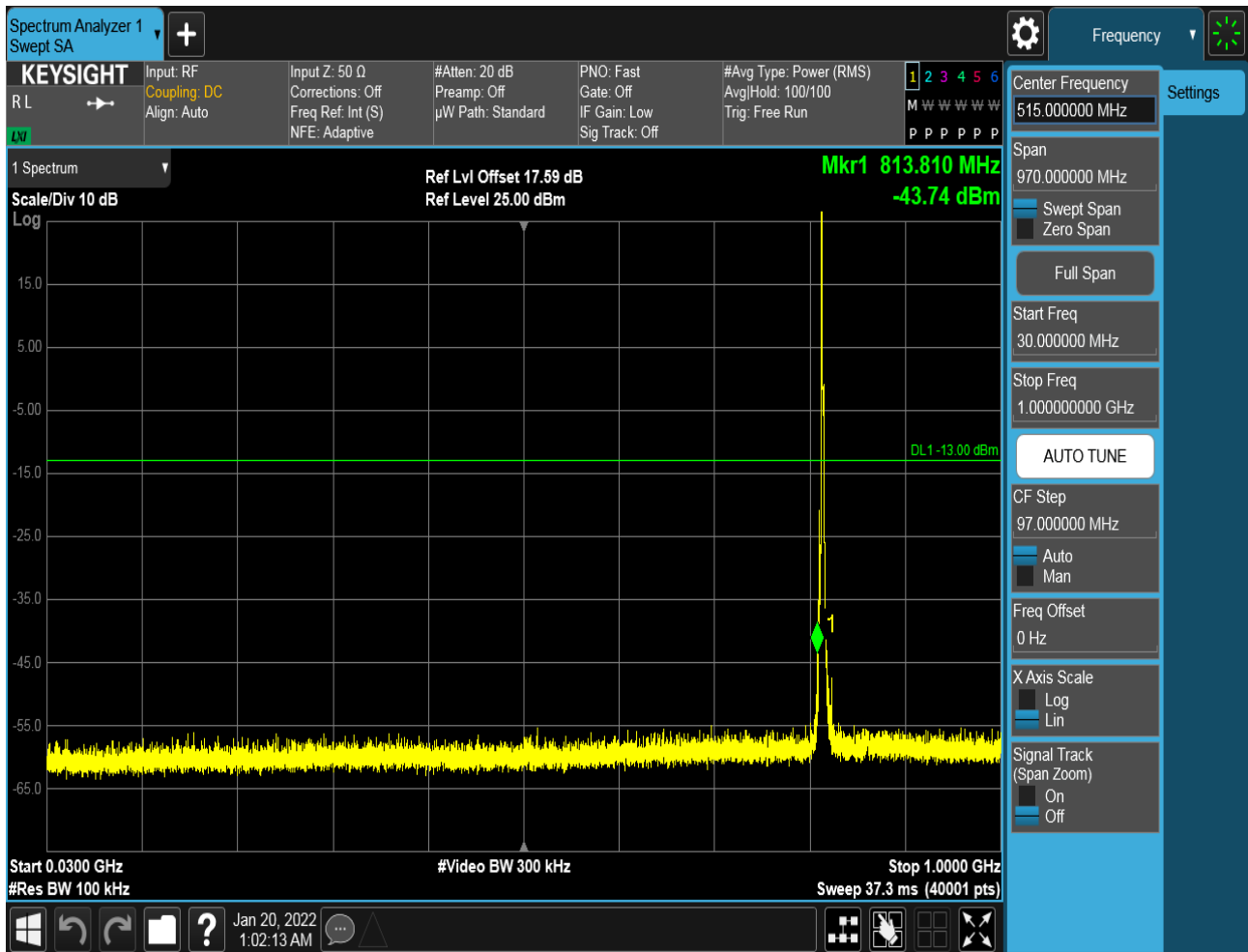


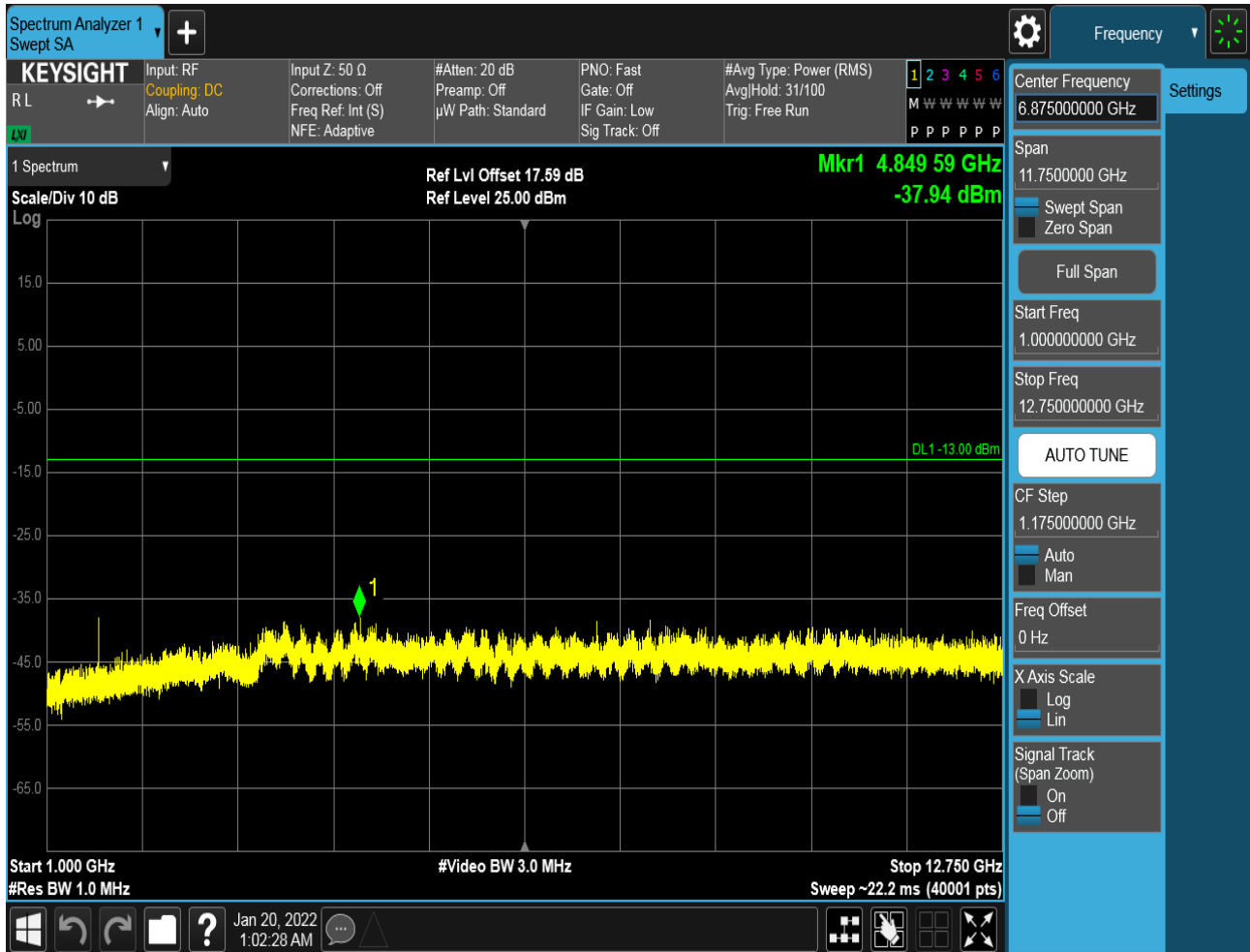
6.2.1.2.2.2 Test Channel = MCH

6.2.1.2.2.1 Test RB = RB1#0



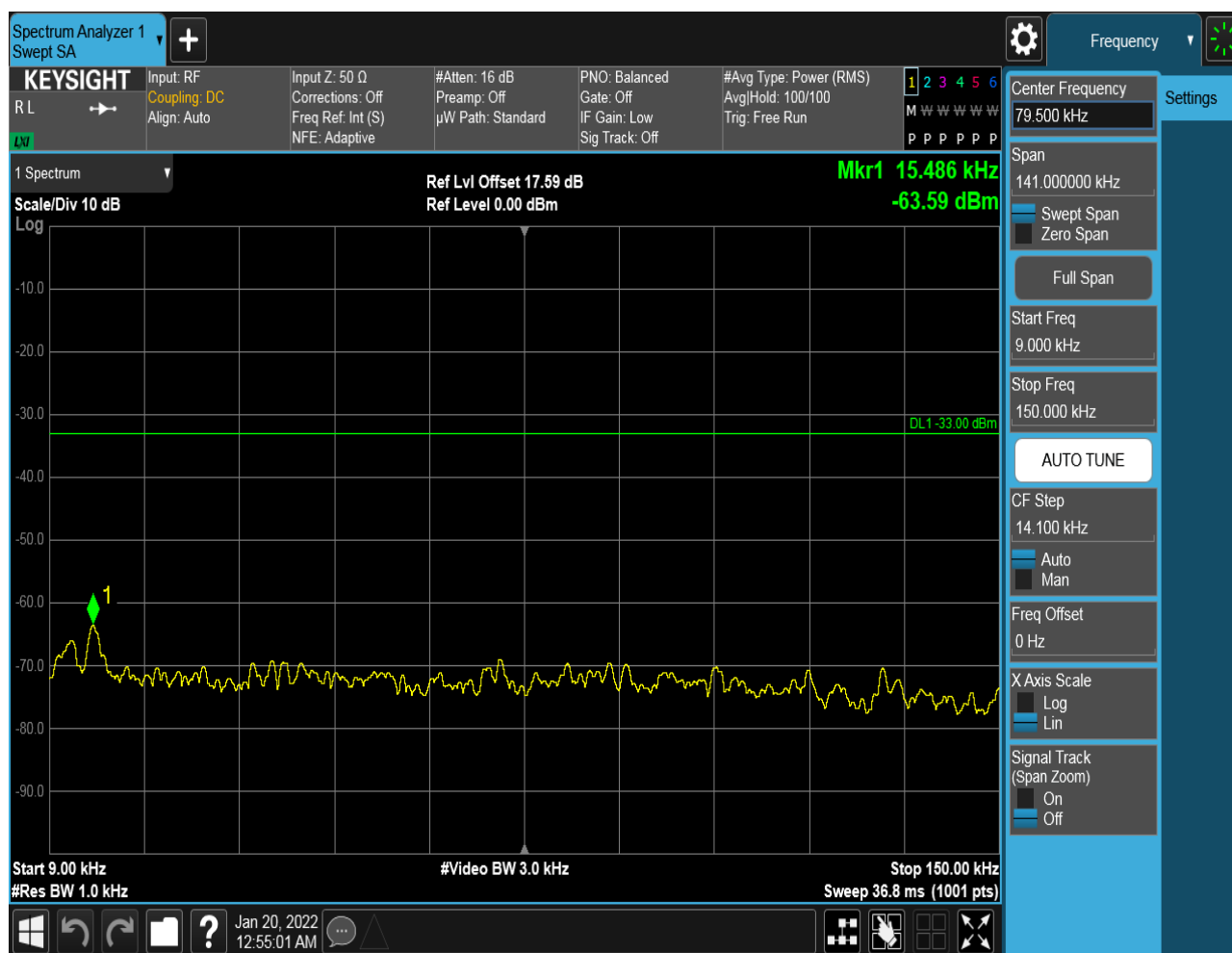


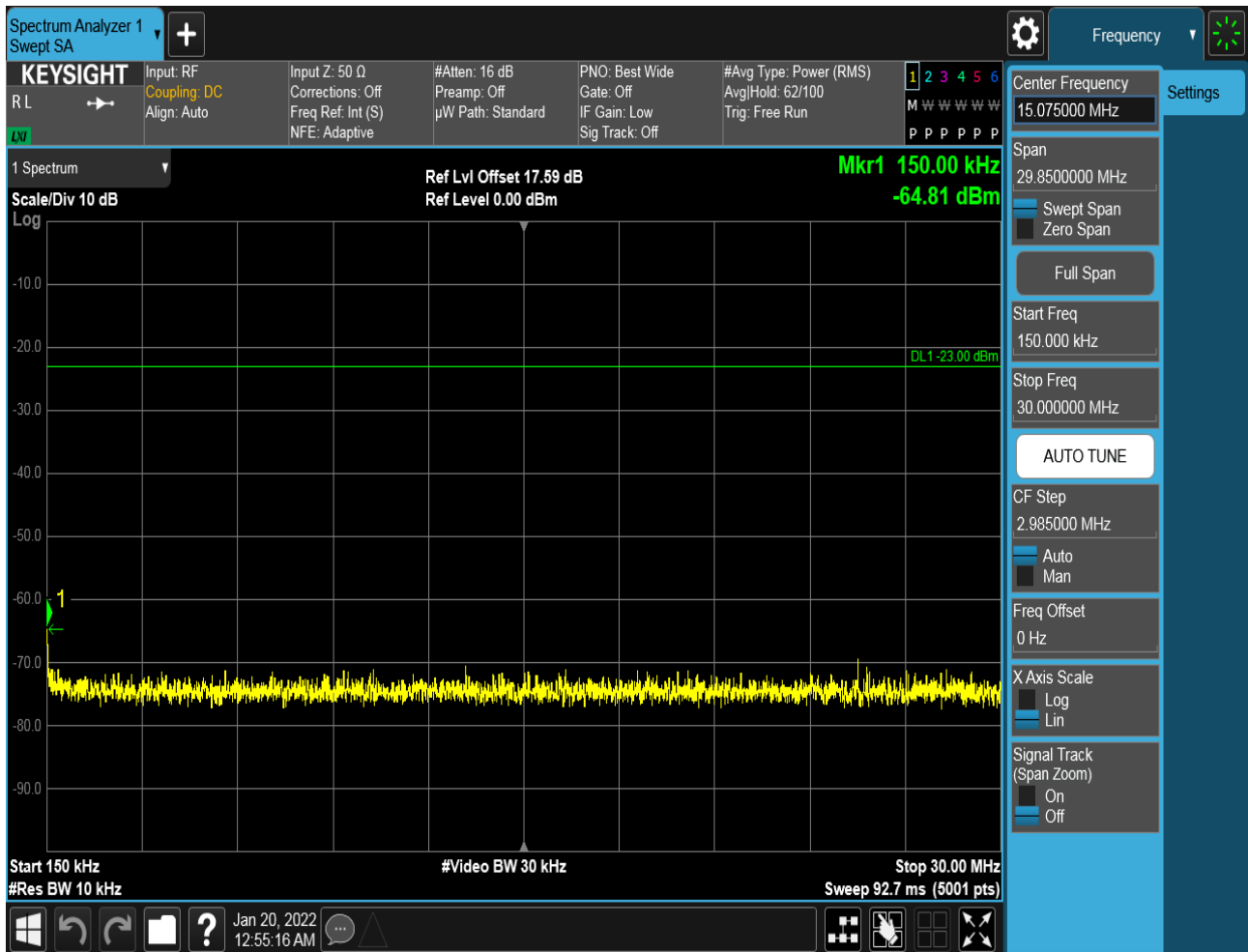


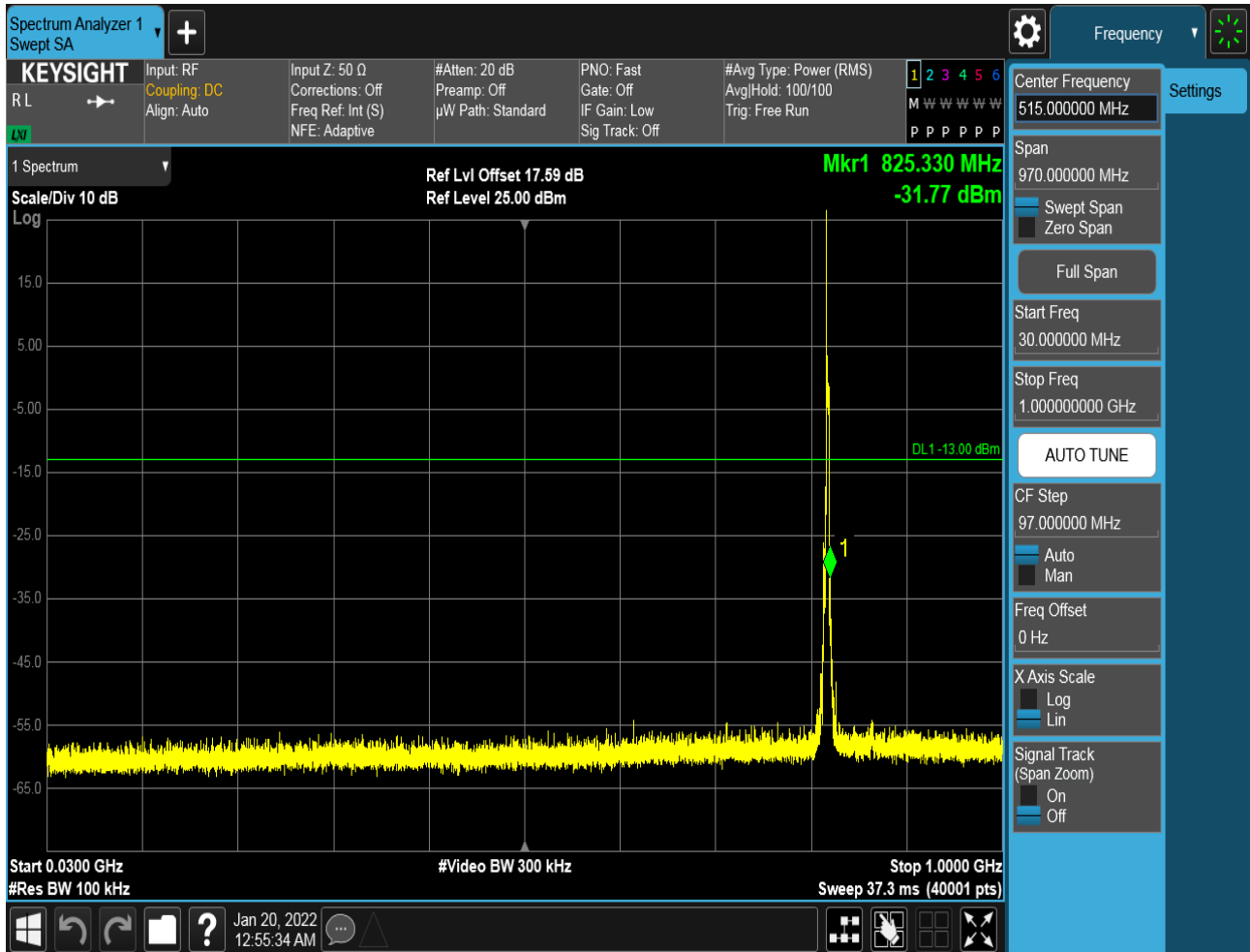


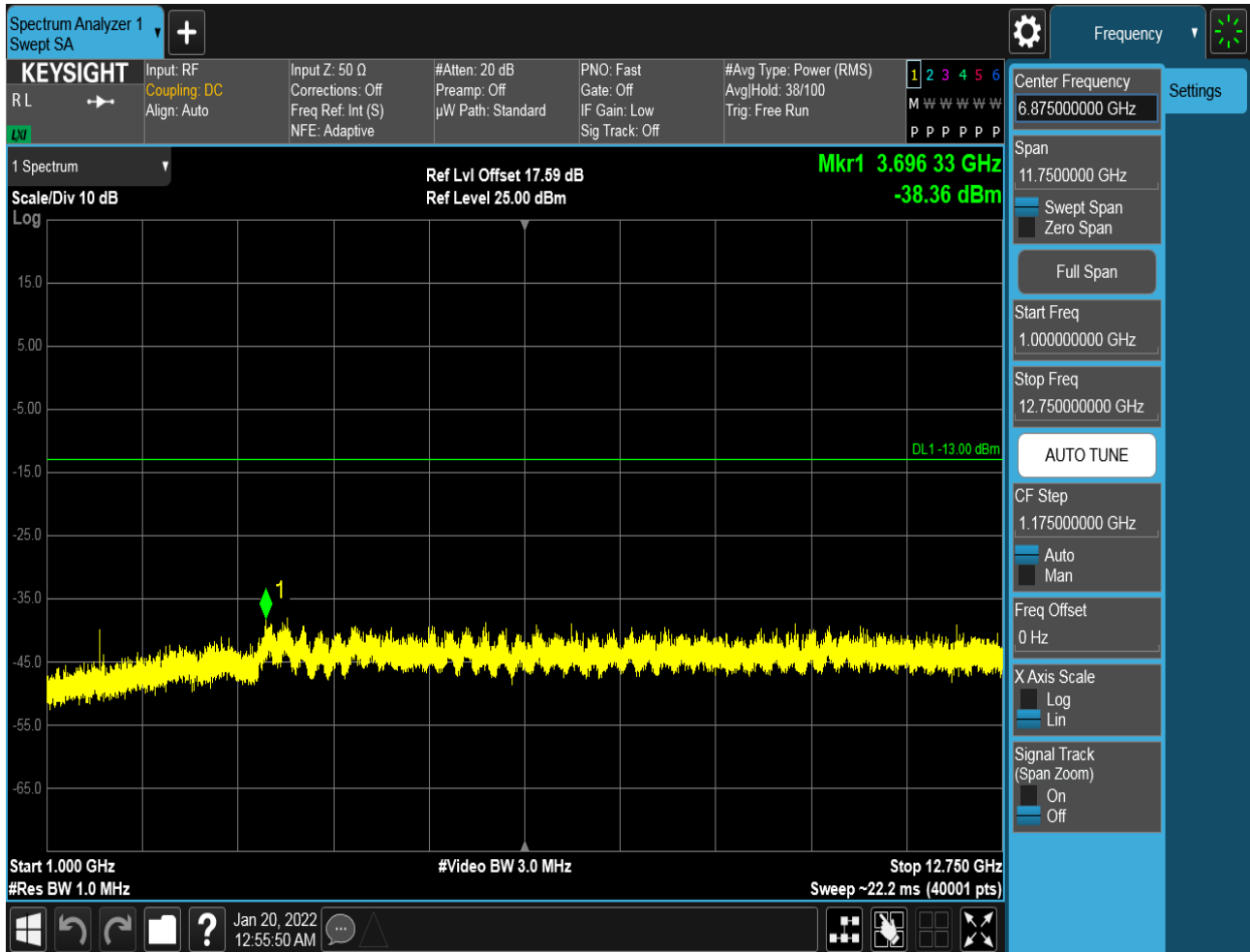
6.2.1.2.2.3 Test Channel = HCH

6.2.1.2.2.3.1 Test RB = RB1#0







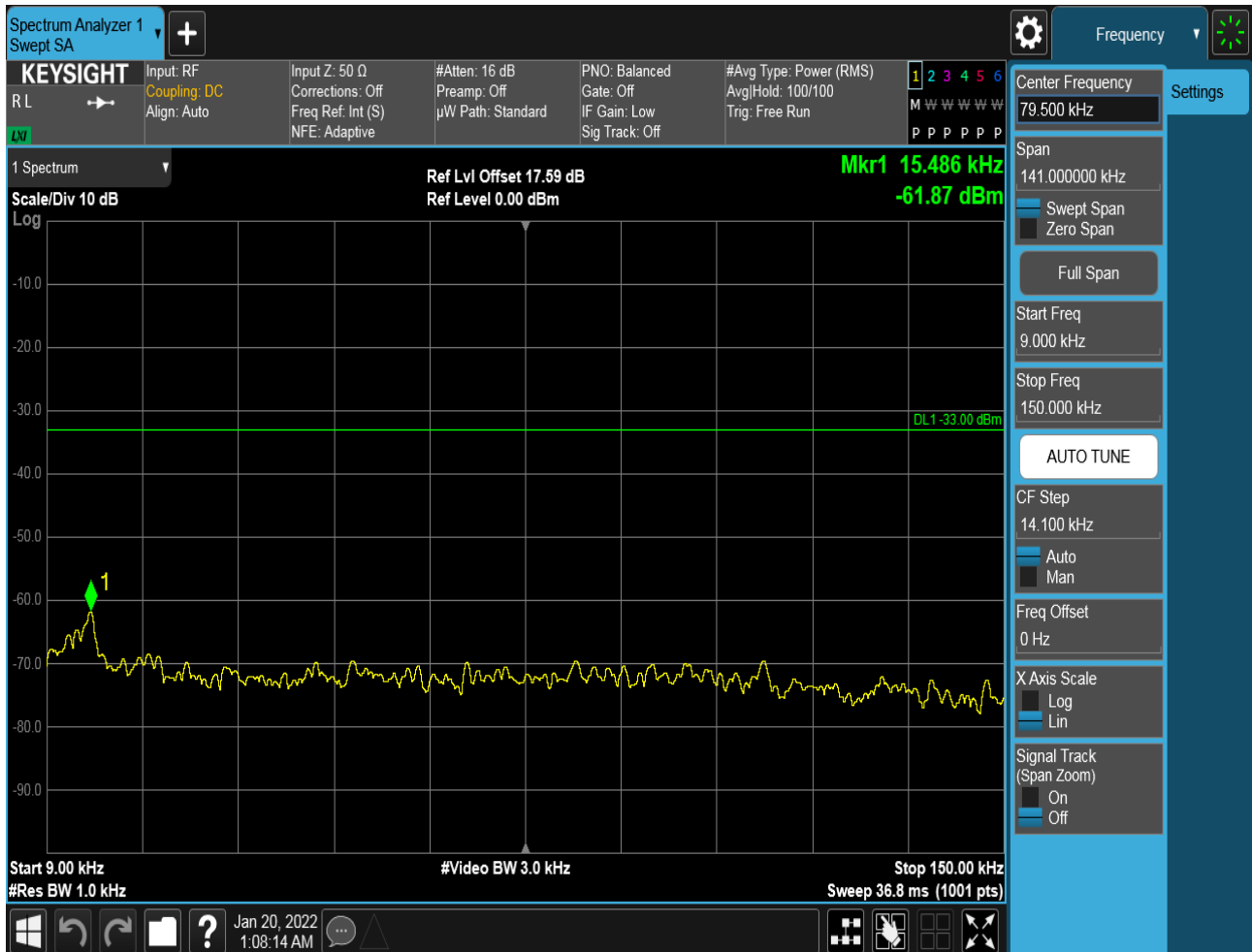


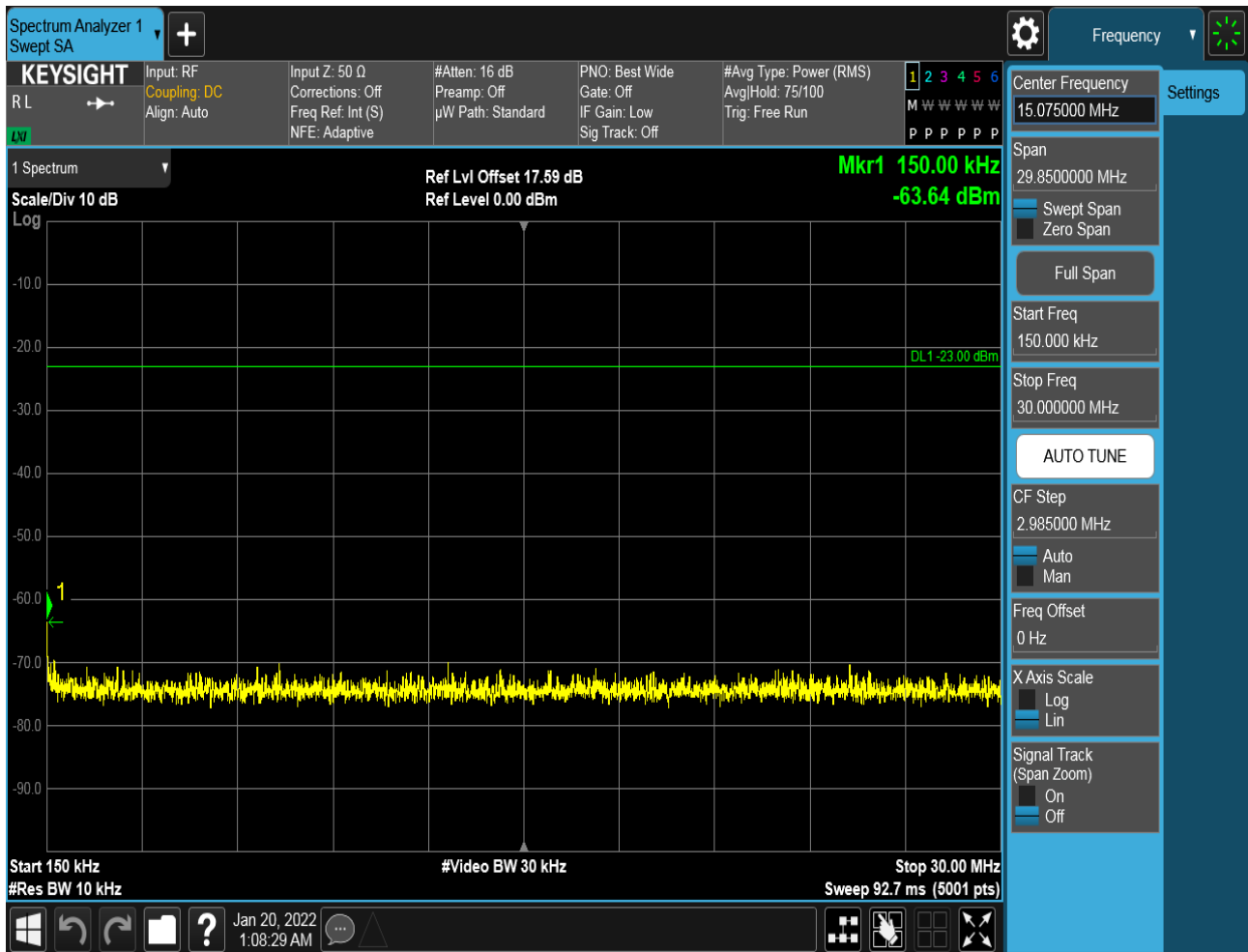


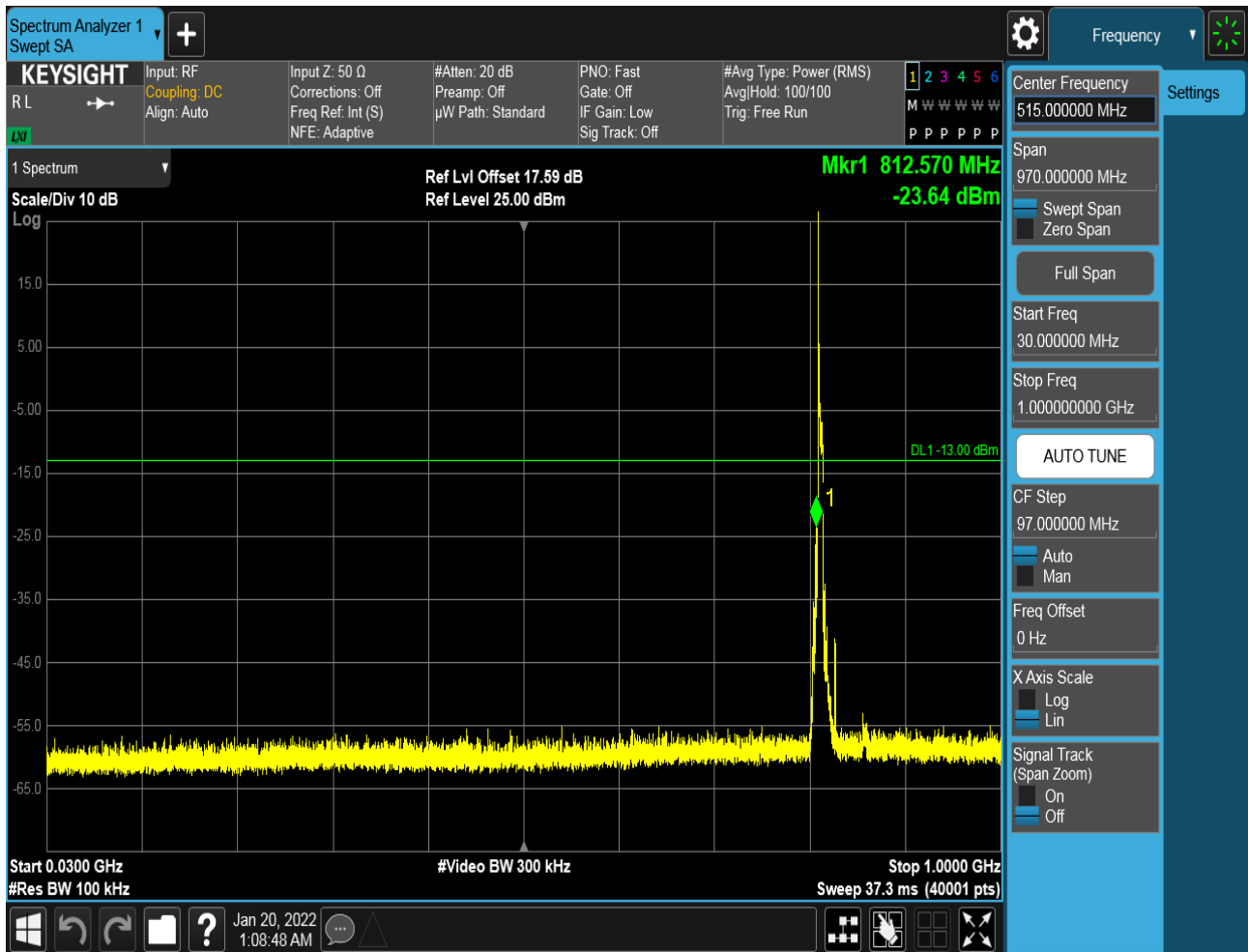
6.2.1.2.3 Test Bandwidth = 5MHz

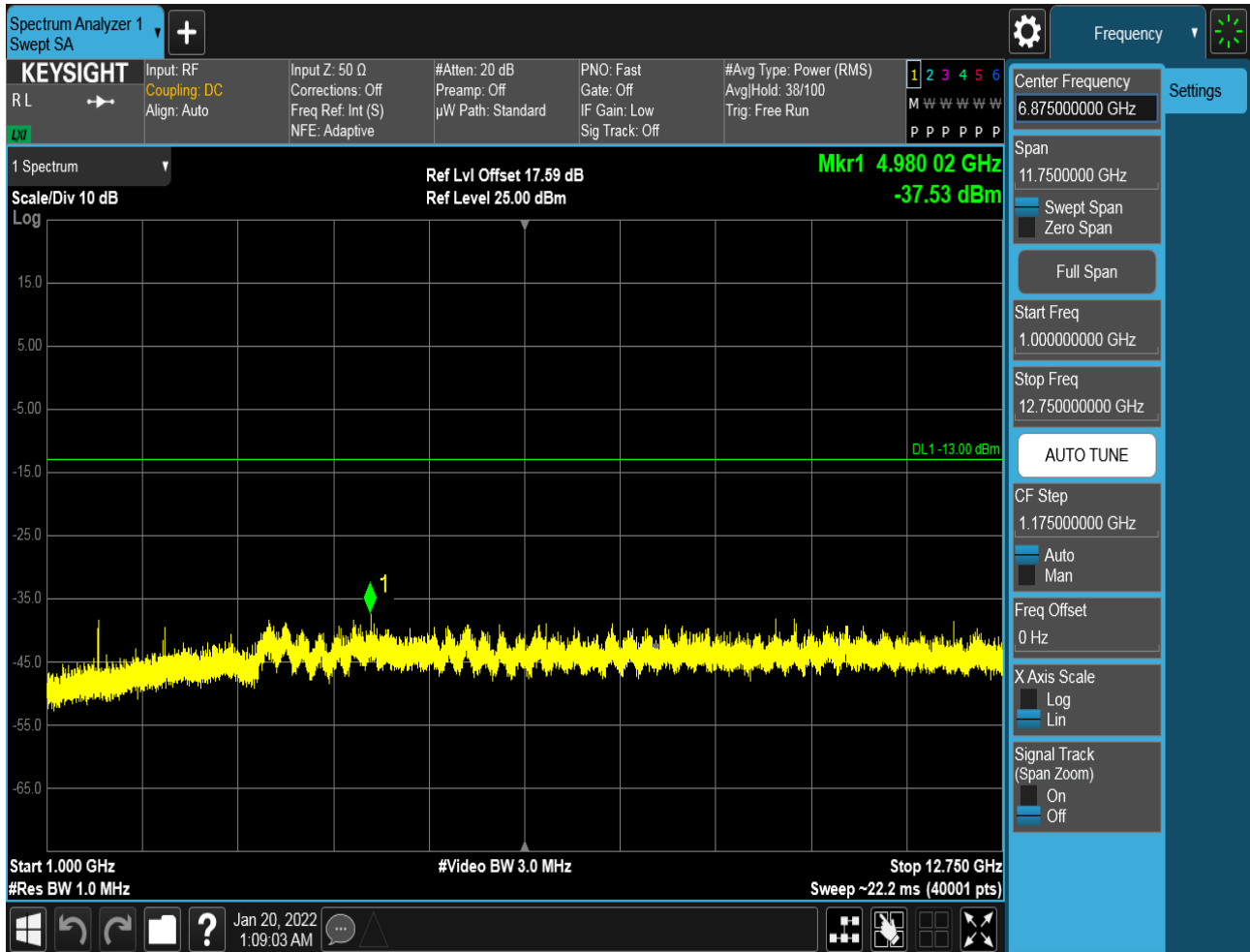
6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0



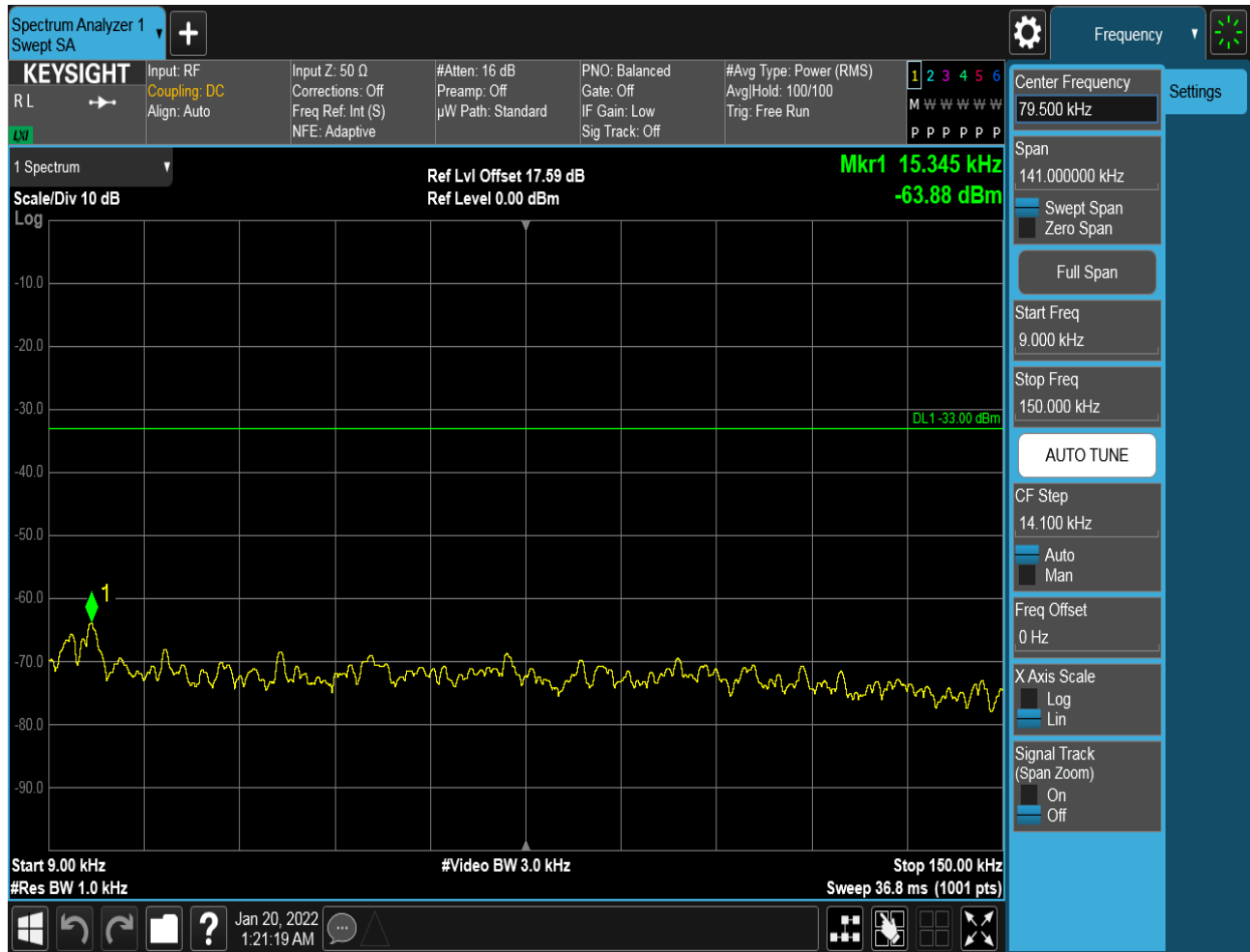


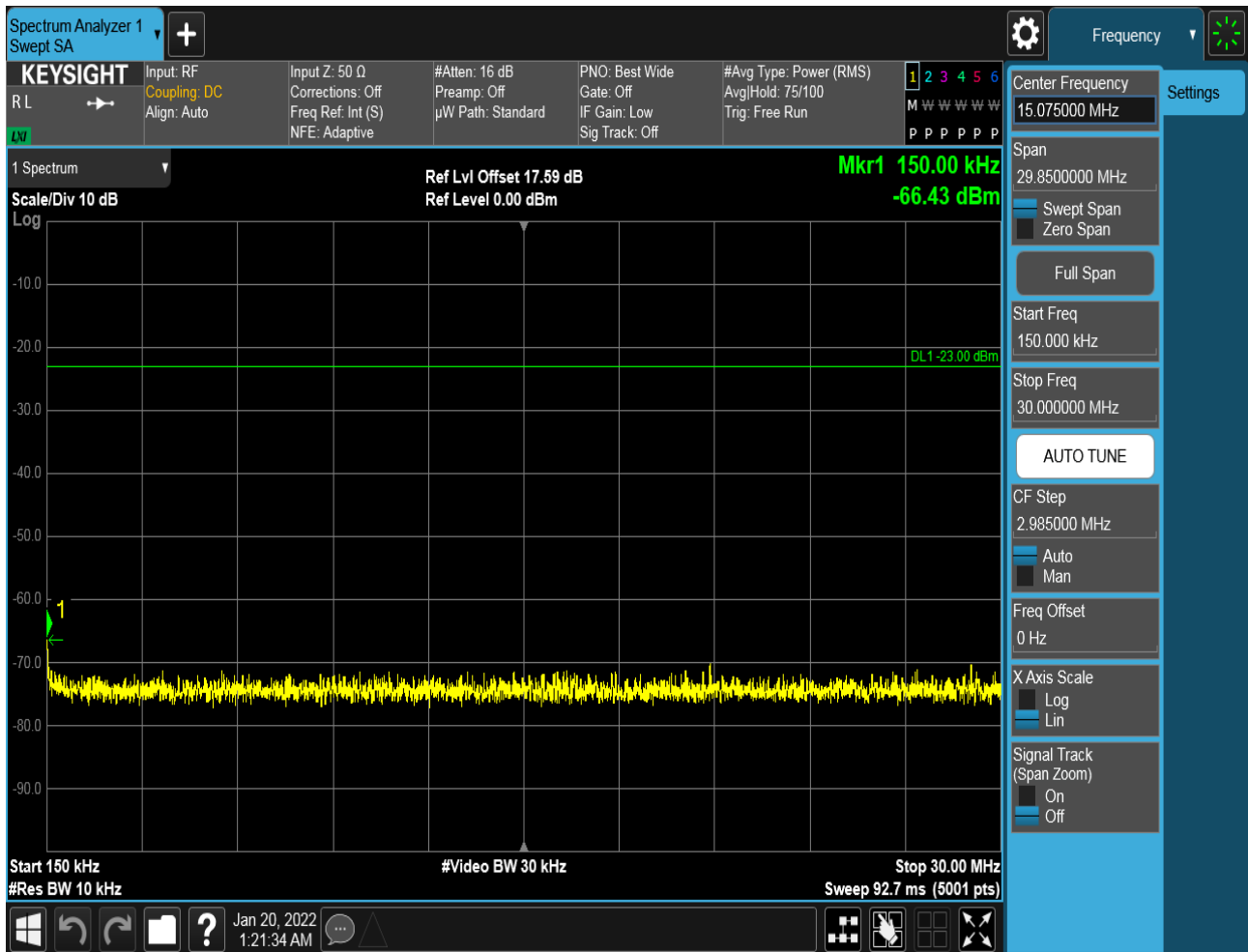


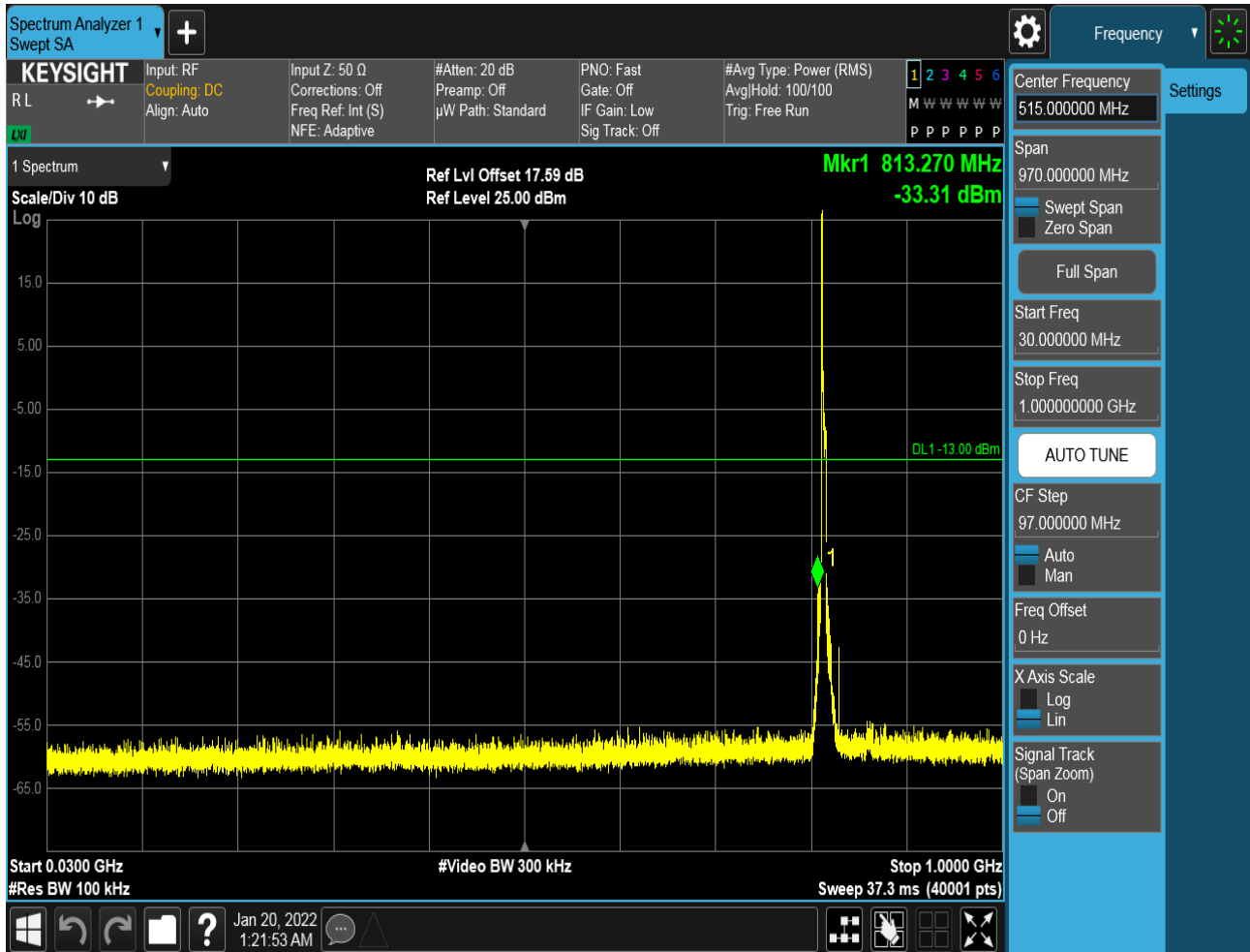


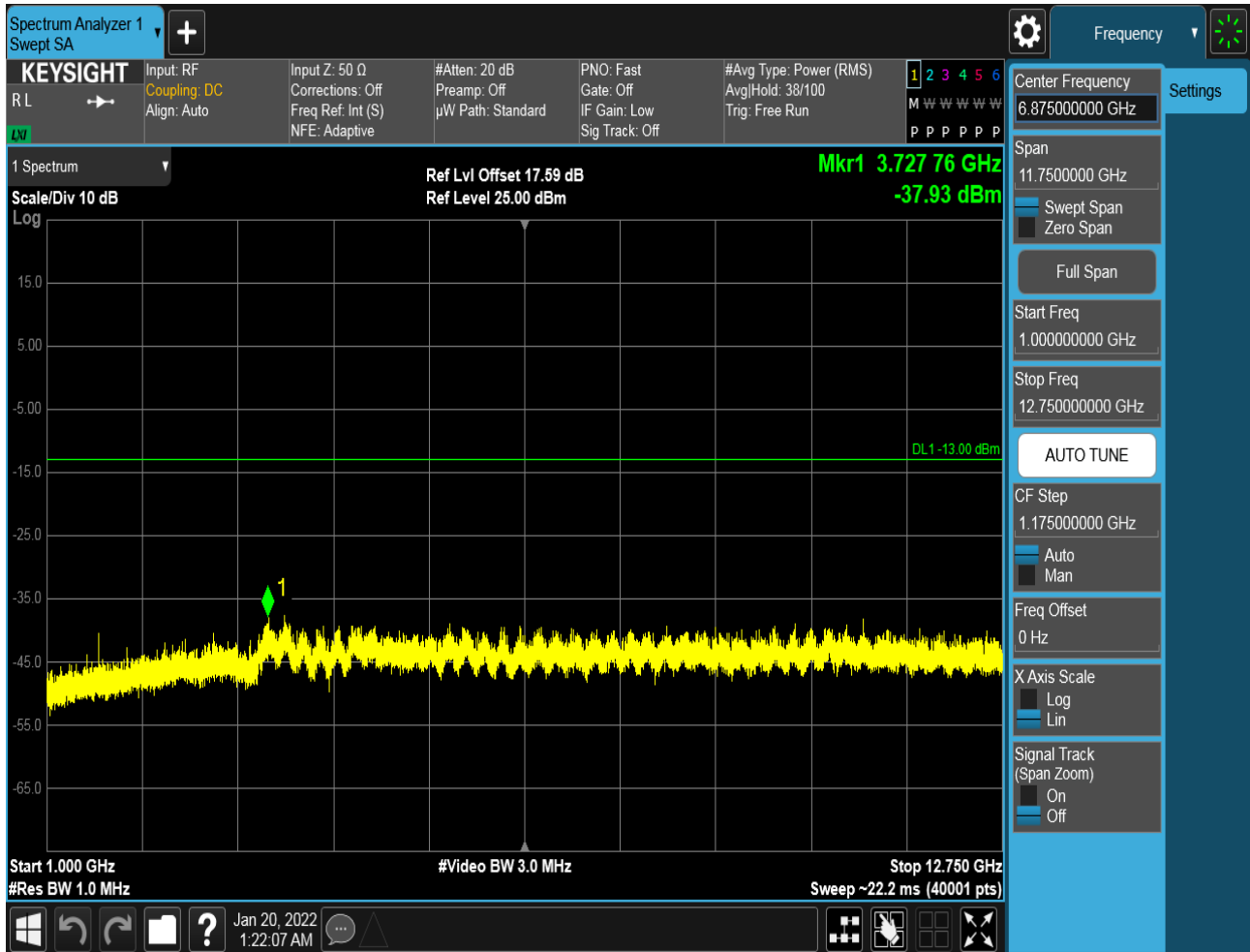
6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0





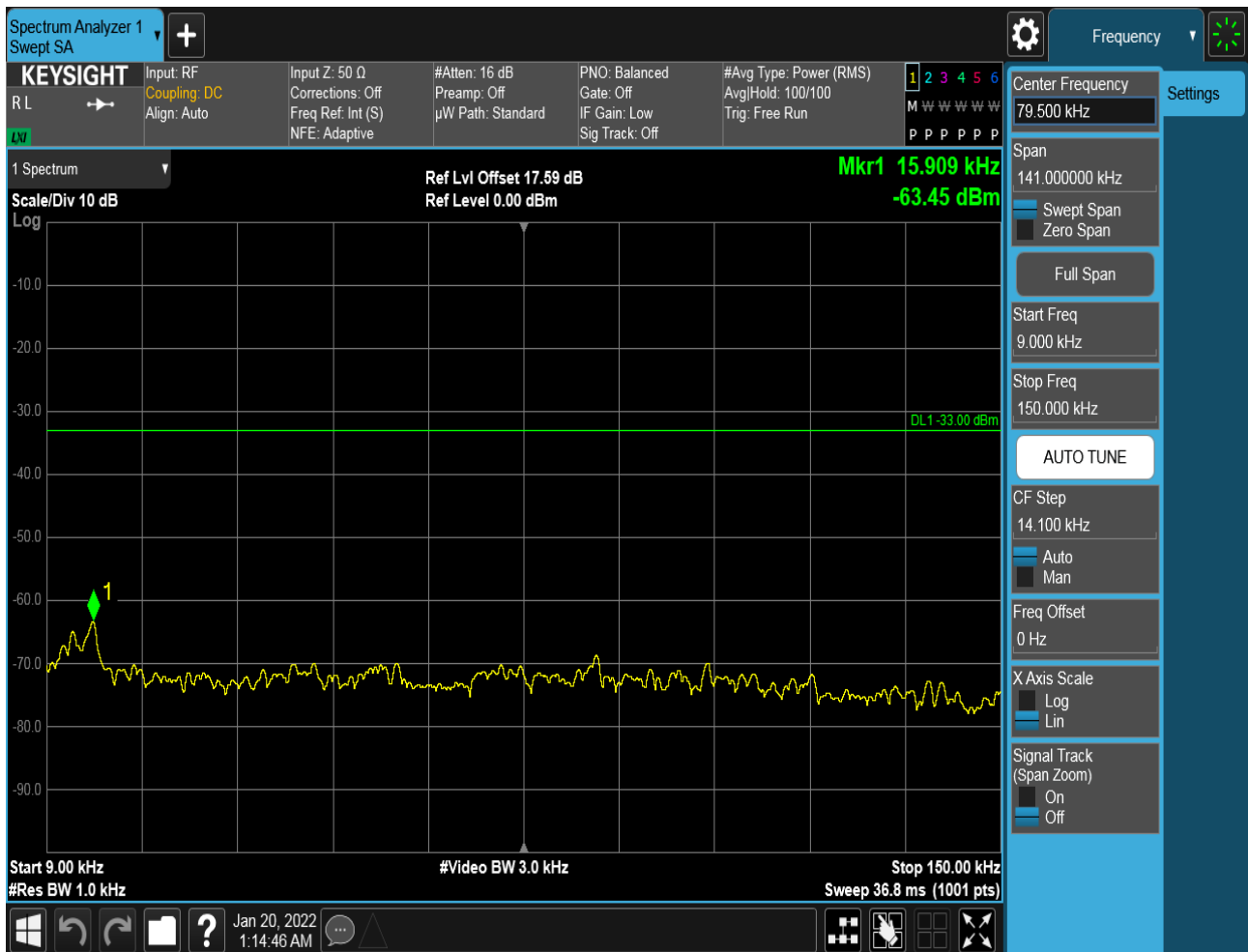


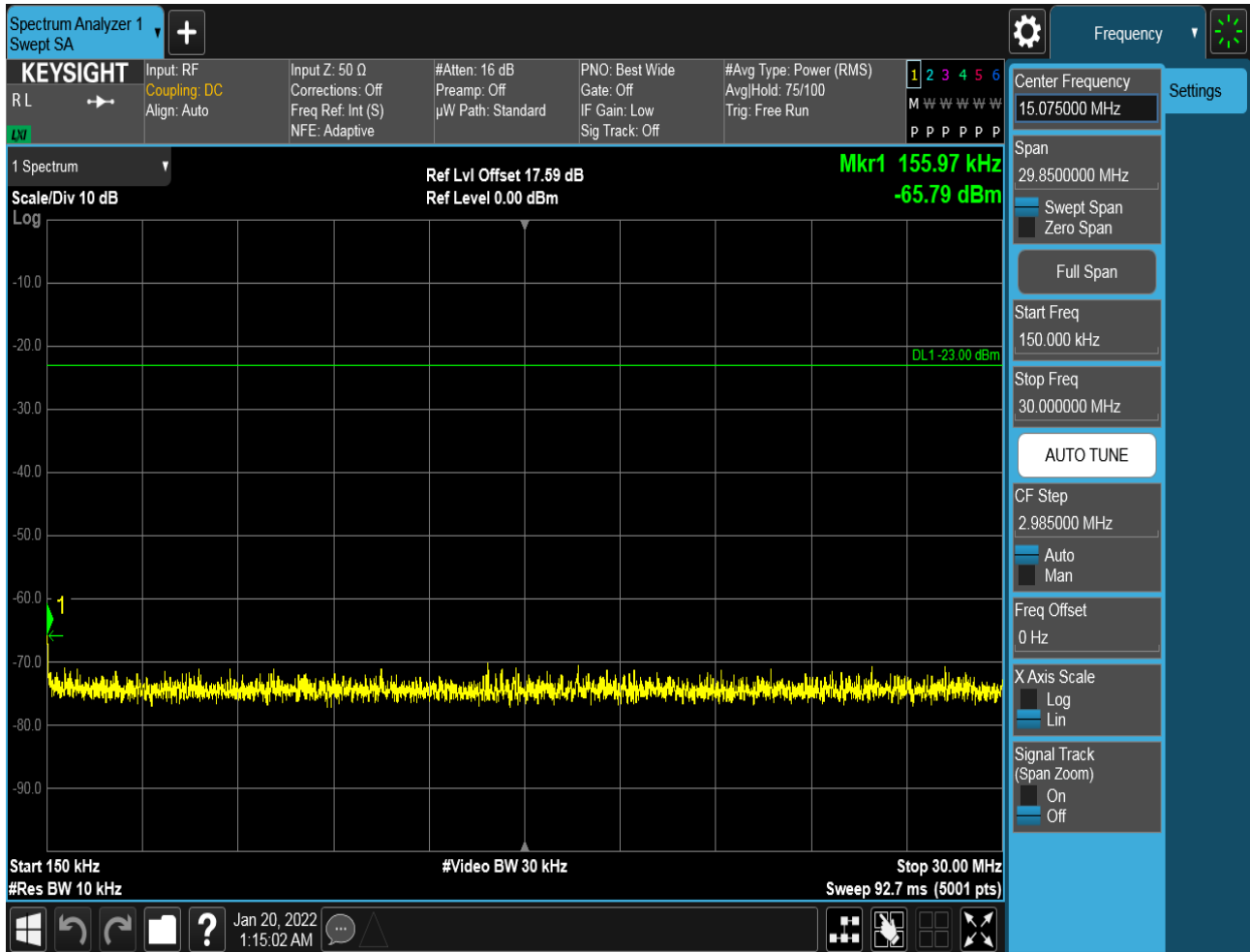


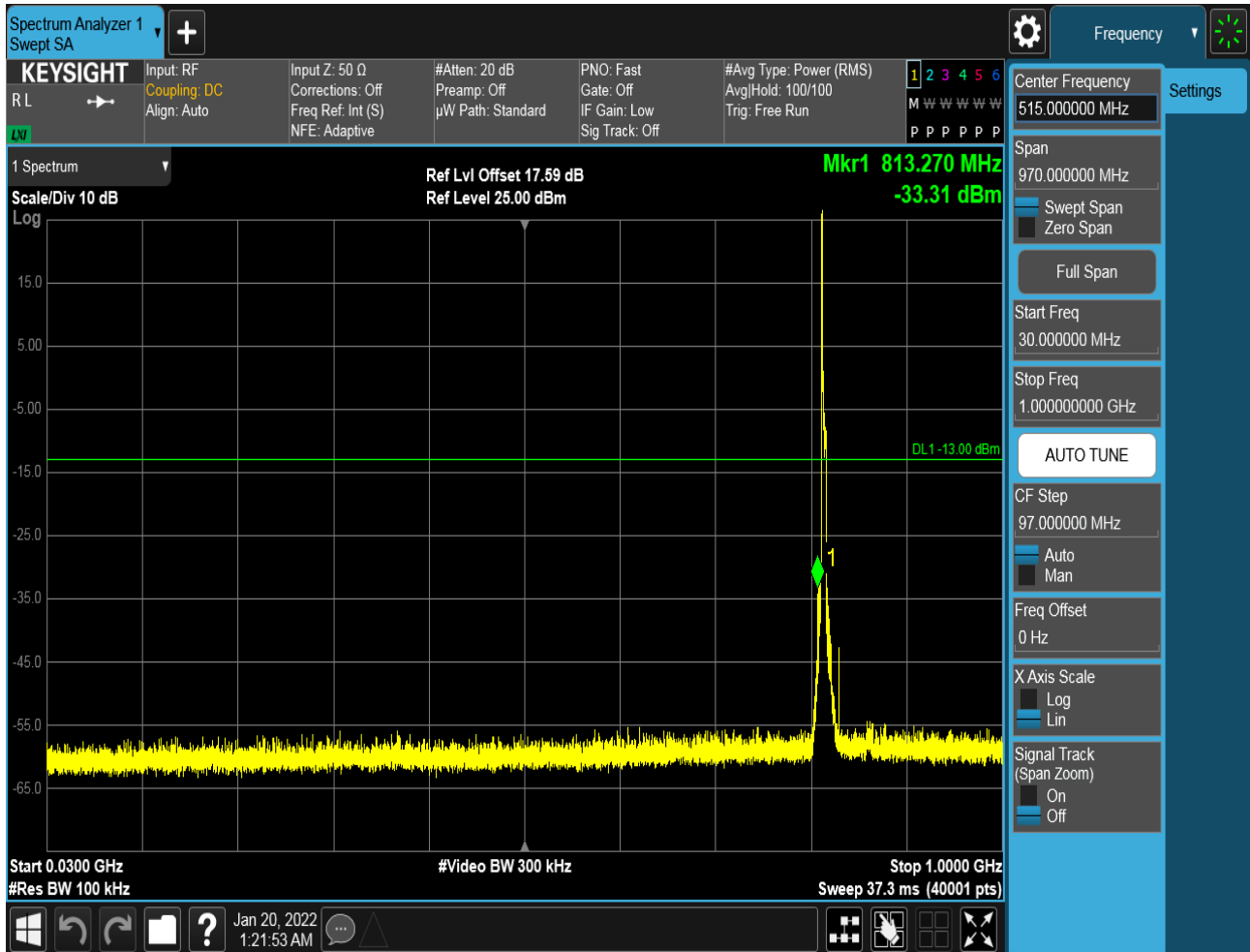


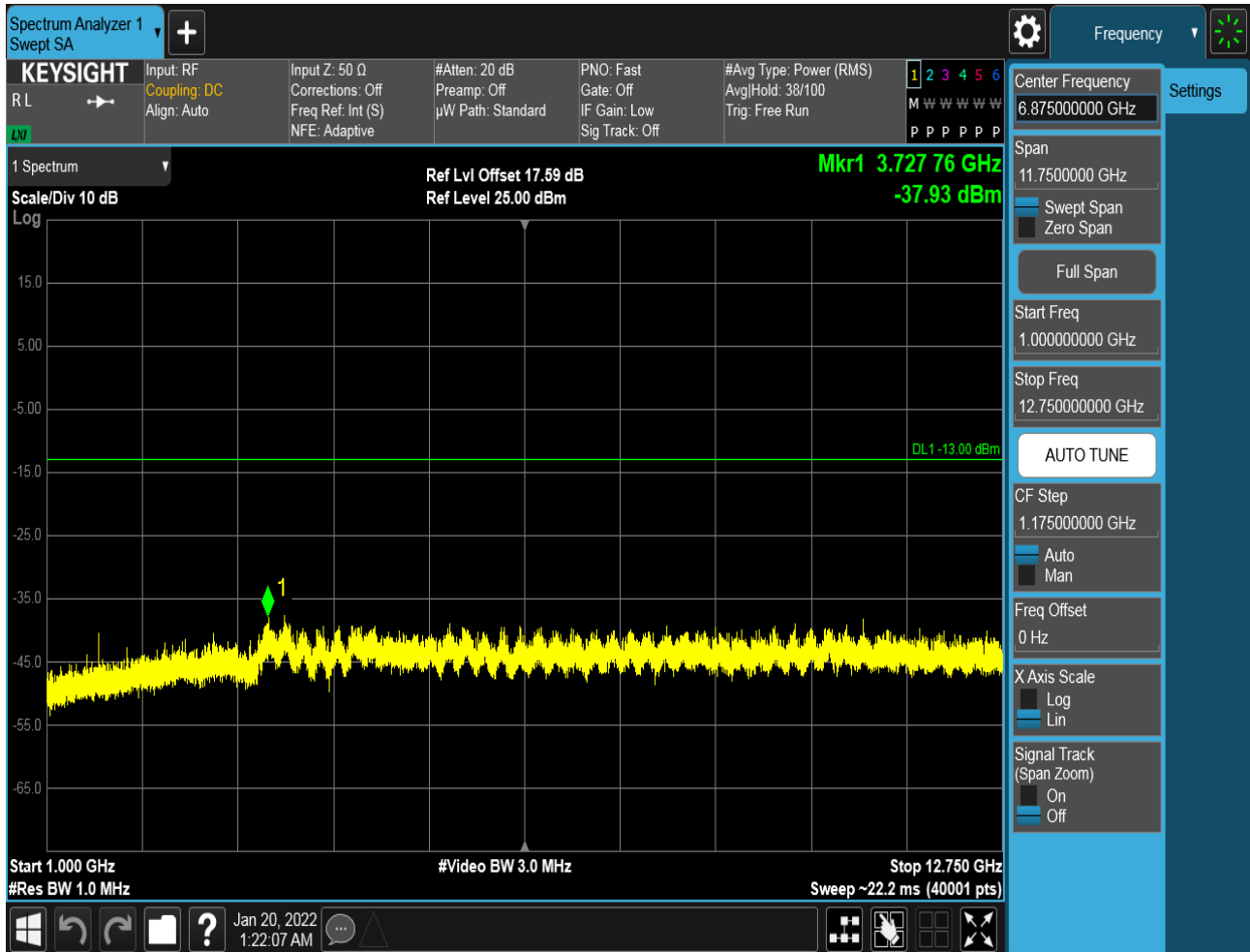
6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0







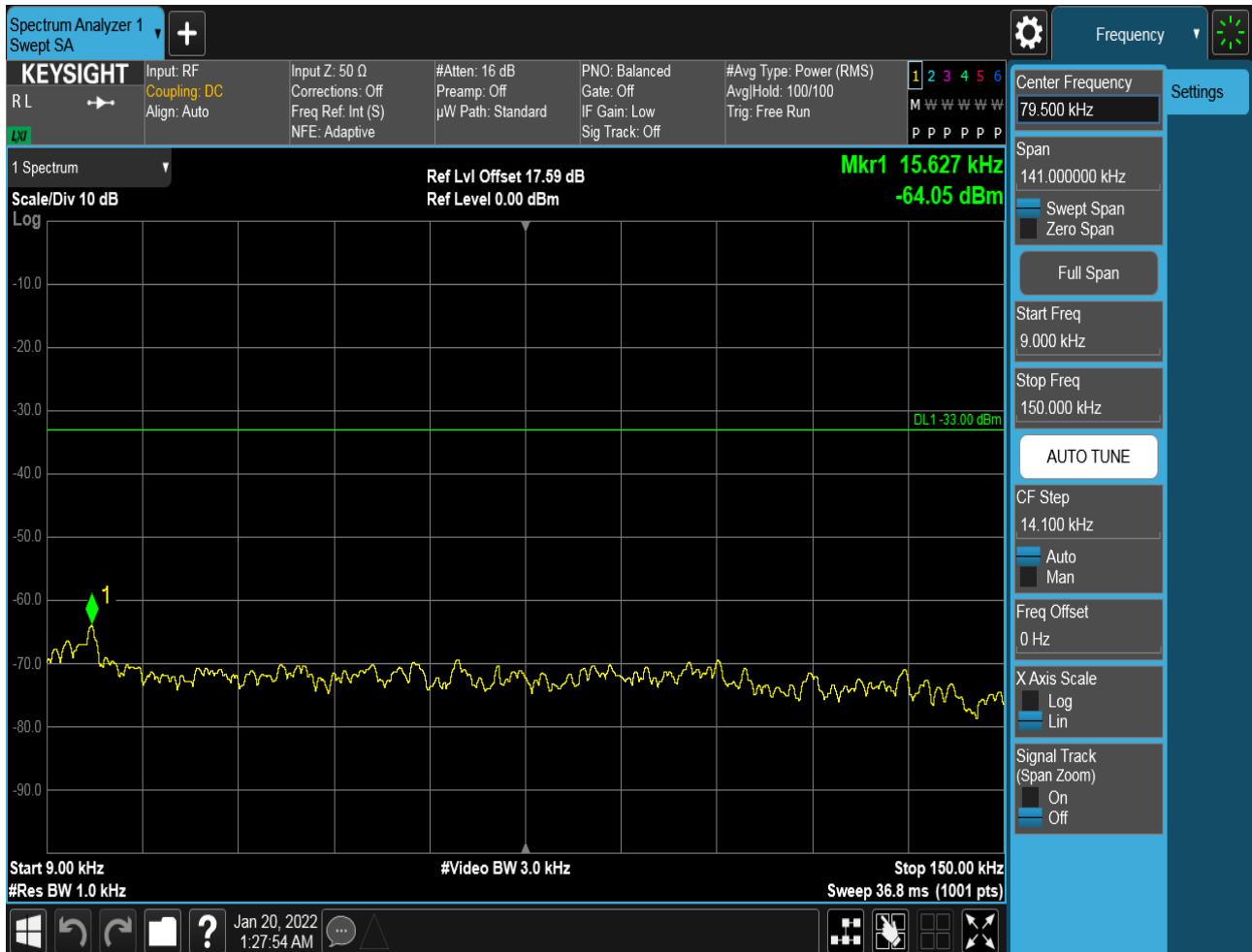


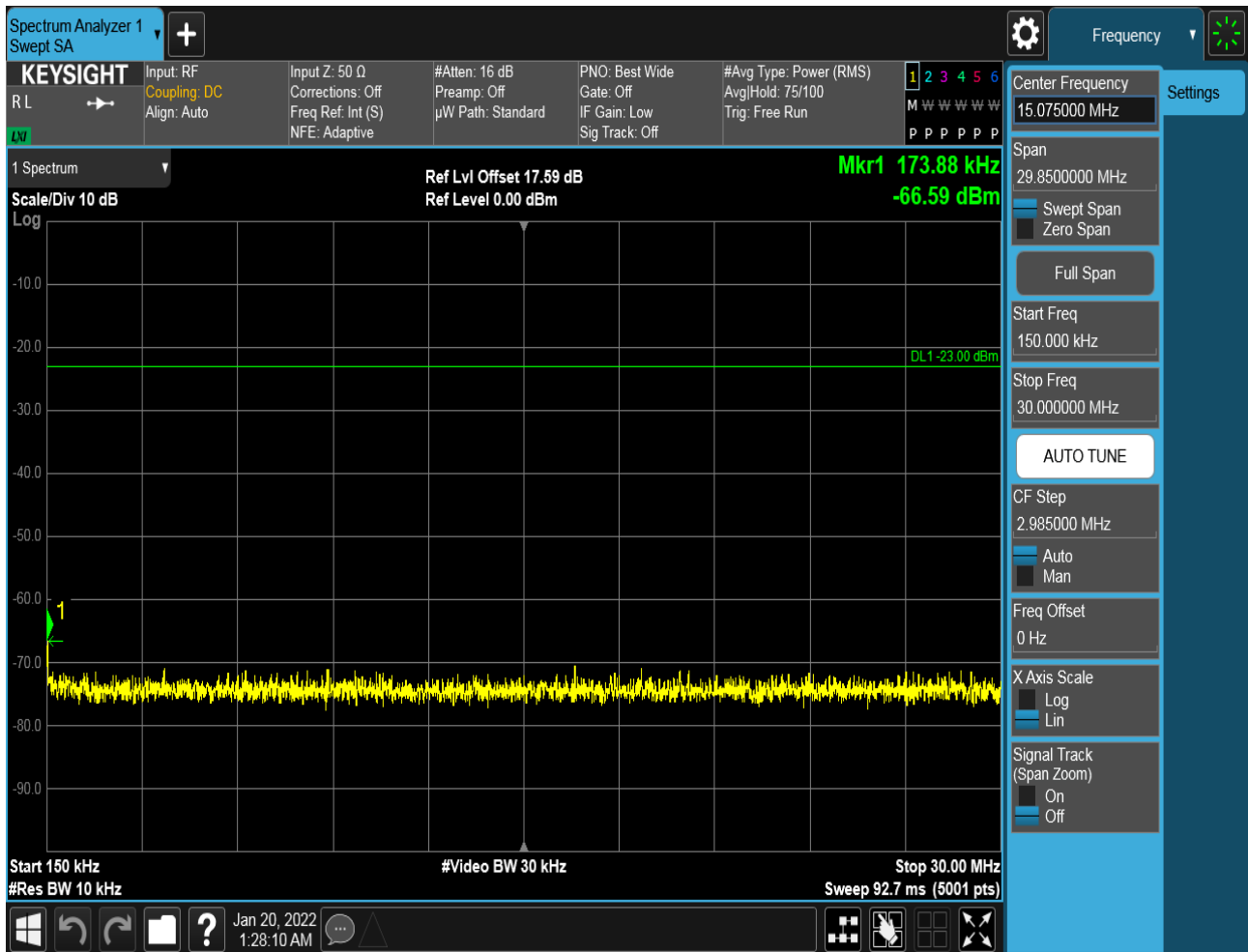


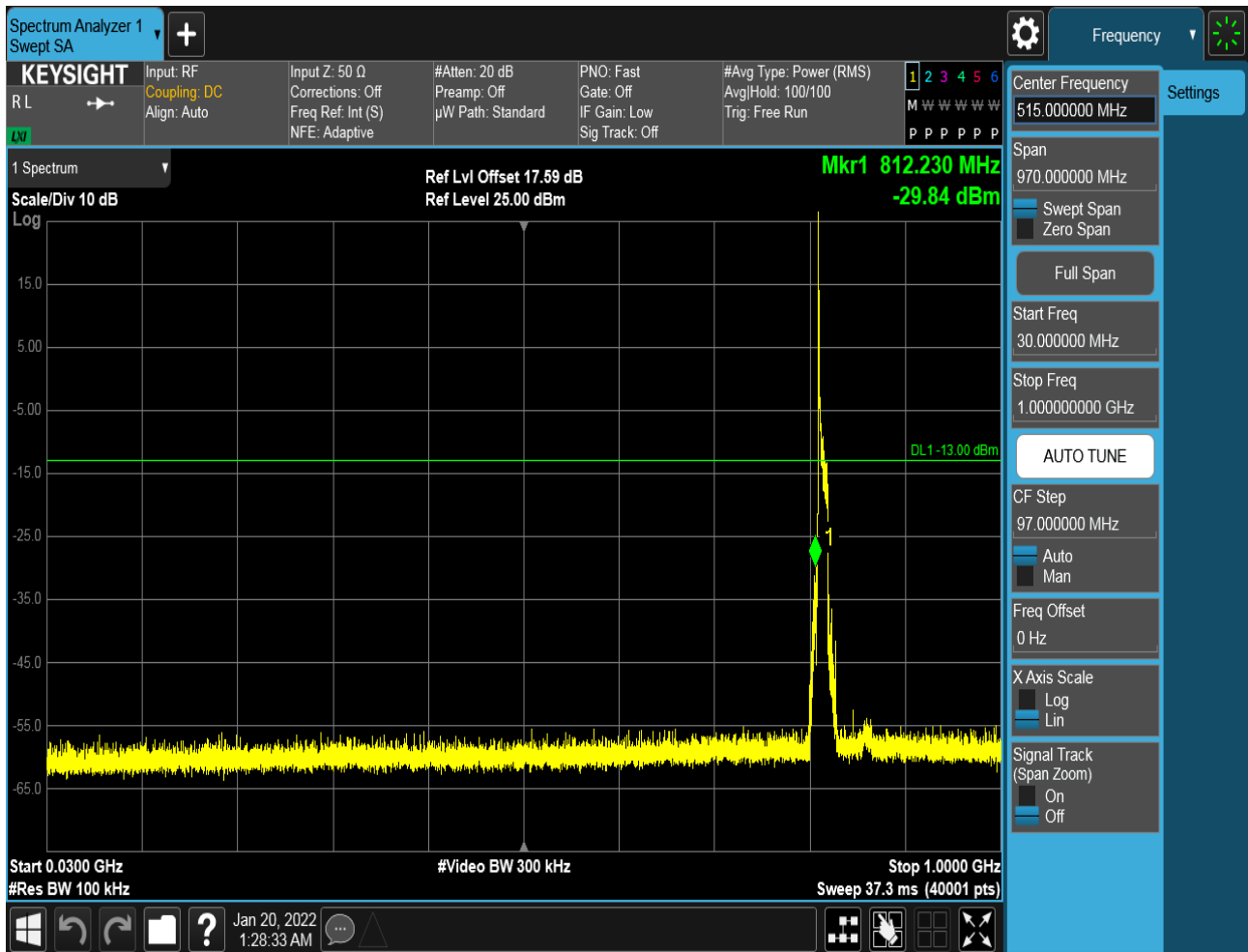
6.2.1.2.4 Test Bandwidth = 10MHz

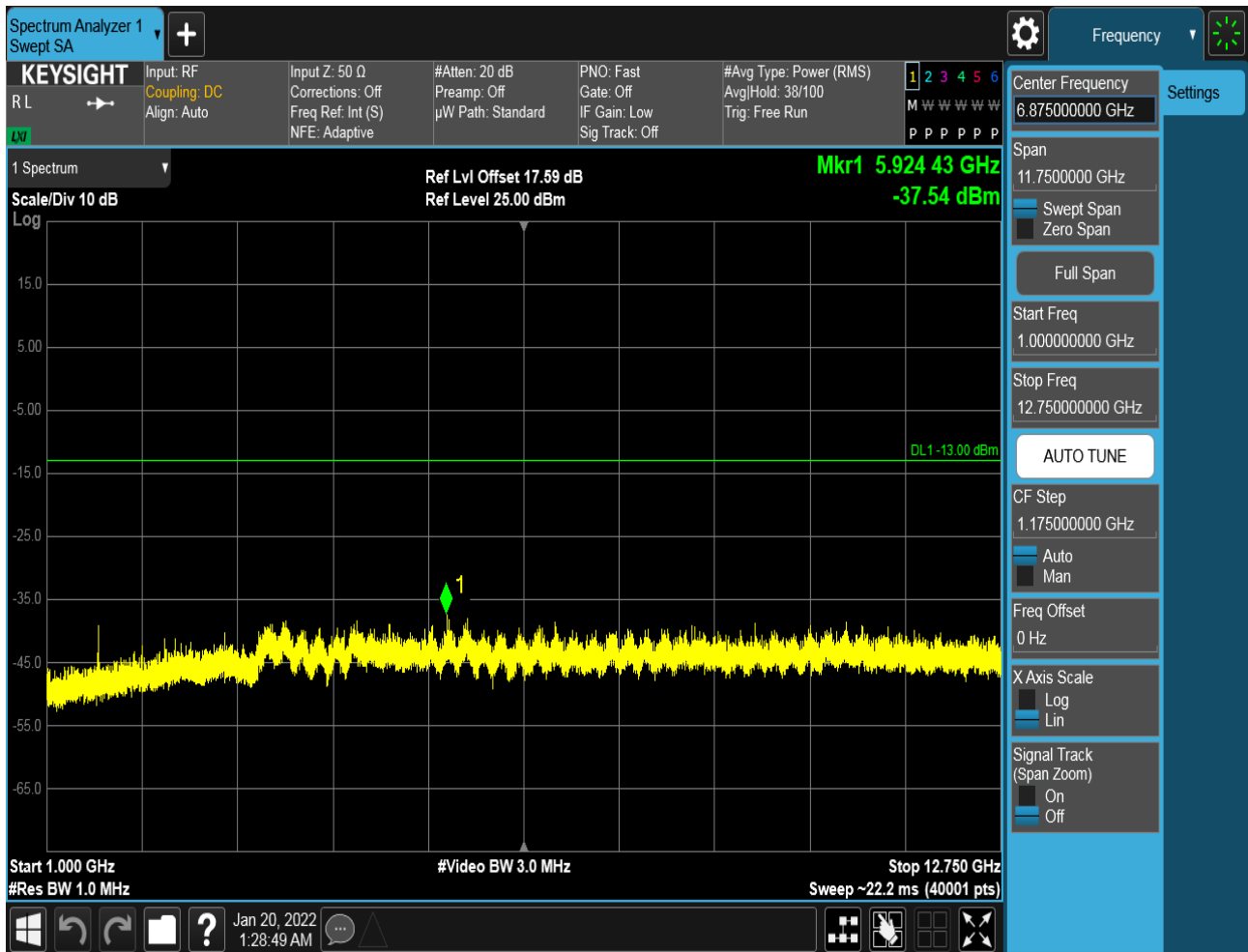
6.2.1.2.4.1 Test Channel = MCH

6.2.1.2.4.1.1 Test RB = RB1#0









7Appendix_G: Field Strength of Spurious Radiation

Note 1: We tested all modes & antennas, the data presented below is the worst case.

Note 2: For Below 30MHz, the data presented below is the worst case for all Channel Bandwidth.

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

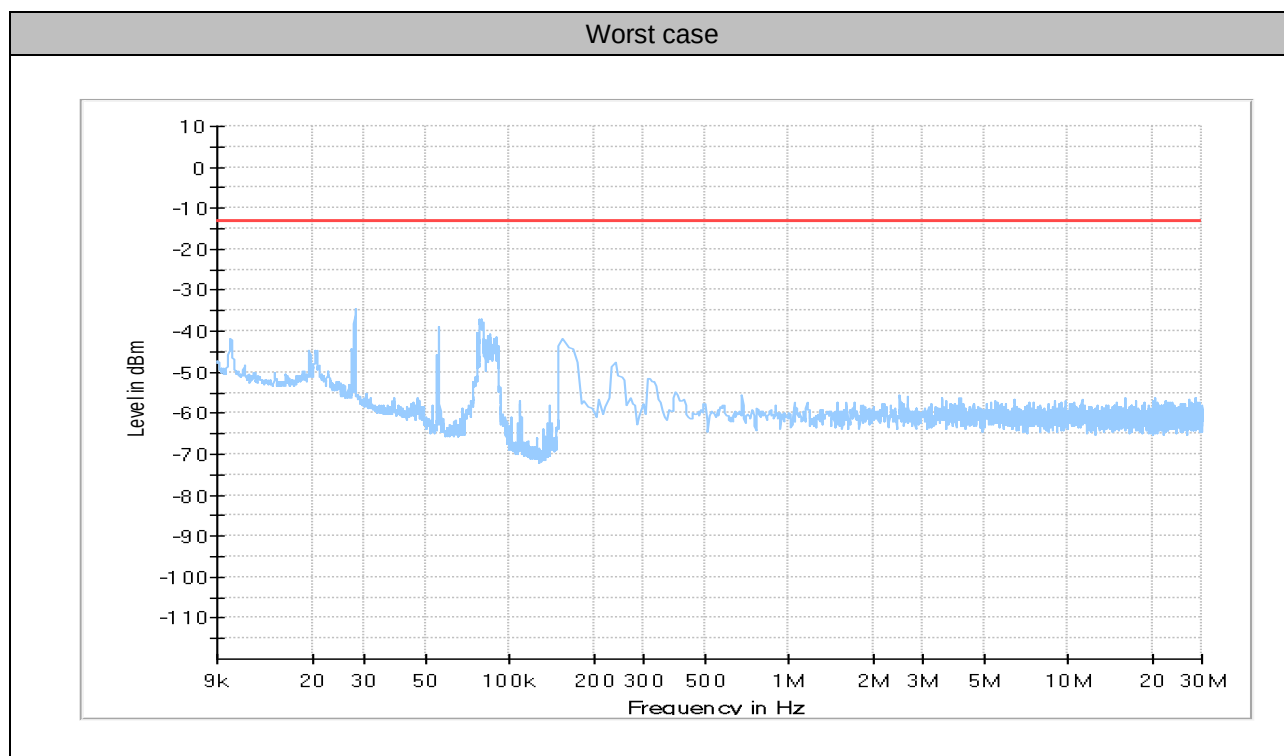
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

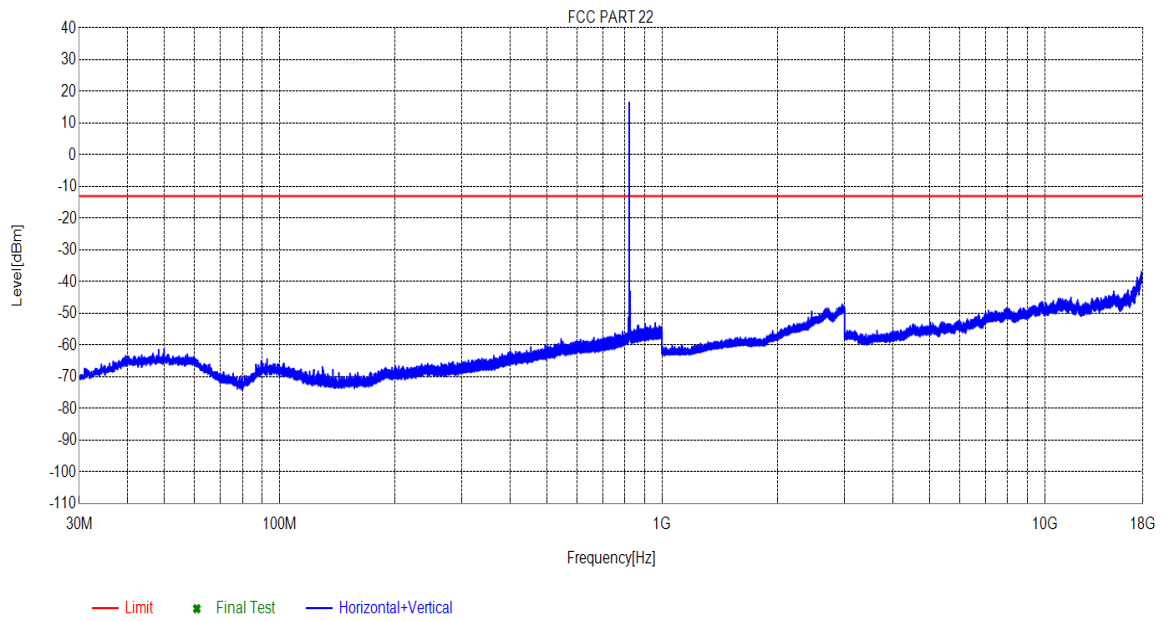
Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = Band26_A

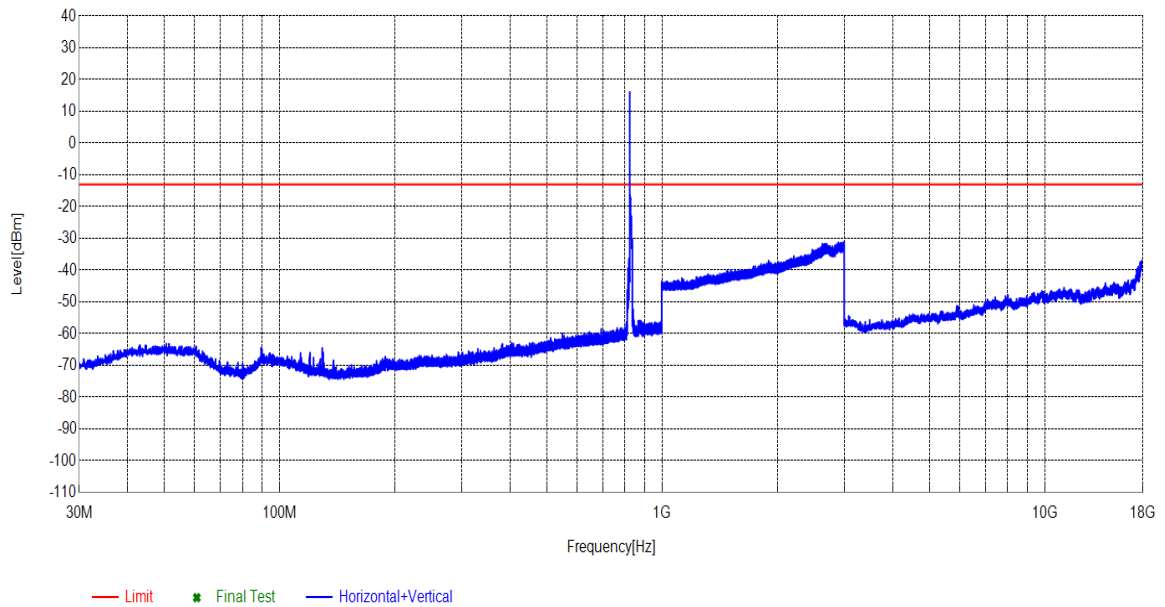
7.1.1.1 Test Bandwidth = 1.4MHz





7.1.1.2 Test Bandwidth = 10MHz

Worst case





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
Band26_A	LTE/TM1	1.4	LCH	TN	VL	-6.09398	-0.00748	PASS
					VN	7.23839	0.00888	PASS
					VH	-26.45016	-0.03247	PASS
			MCH	TN	VL	-11.87325	-0.01450	PASS
					VN	5.23567	0.00639	PASS
					VH	1.27316	0.00155	PASS
			HCH	TN	VL	-4.26292	-0.00518	PASS
					VN	3.04699	0.00370	PASS
					VH	-0.92983	-0.00113	PASS
		3	LCH	TN	VL	-0.01431	-0.00002	PASS
					VN	-1.77383	-0.00218	PASS
					VH	1.43051	0.00175	PASS
			MCH	TN	VL	-7.98225	-0.00975	PASS
					VN	-14.57691	-0.01780	PASS
					VH	-4.43459	-0.00541	PASS
			HCH	TN	VL	7.05242	0.00857	PASS
					VN	4.90665	0.00597	PASS
					VH	-8.62598	-0.01049	PASS
		5	LCH	TN	VL	-0.31471	-0.00039	PASS
					VN	0.95844	0.00117	PASS
					VH	-0.51498	-0.00063	PASS
			MCH	TN	VL	-10.72884	-0.01310	PASS
					VN	-4.34875	-0.00531	PASS
					VH	2.50339	0.00306	PASS
			HCH	TN	VL	1.87397	0.00228	PASS
					VN	1.73092	0.00211	PASS
					VH	0.17166	0.00021	PASS
		10	MCH	TN	VL	-2.41756	-0.00295	PASS
					VN	0.60081	0.00073	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	TN	VH	-0.21458	-0.00026	PASS
					VL	-4.23431	-0.00520	PASS
					VN	-6.15120	-0.00755	PASS
			MCH	TN	VH	8.15391	0.01001	PASS
					VL	-6.53744	-0.00798	PASS
					VN	0.82970	0.00101	PASS
			HCH	TN	VH	-18.28194	-0.02232	PASS
					VL	1.90258	0.00231	PASS
					VN	-7.63893	-0.00928	PASS
			LCH	TN	VH	-7.58171	-0.00921	PASS
					VL	1.17302	0.00144	PASS
					VN	3.99113	0.00489	PASS
		3	MCH	TN	VH	-1.64509	-0.00202	PASS
					VL	1.64509	0.00201	PASS
					VN	-10.52856	-0.01286	PASS
			HCH	TN	VH	-7.93934	-0.00969	PASS
					VL	-0.20027	-0.00024	PASS
					VN	-0.70095	-0.00085	PASS
			LCH	TN	VH	3.21865	0.00391	PASS
					VL	-0.38624	-0.00047	PASS
					VN	-1.55926	-0.00191	PASS
		5	MCH	TN	VH	-2.74658	-0.00336	PASS
					VL	-0.70095	-0.00086	PASS
					VN	-3.00407	-0.00367	PASS
			HCH	TN	VH	9.62734	0.01175	PASS
					VL	2.84672	0.00347	PASS
					VN	3.01838	0.00367	PASS
			MCH	TN	VH	-1.40190	-0.00171	PASS
					VL	-5.42164	-0.00662	PASS
					VN	0.14305	0.00017	PASS
		10	MCH	TN	VH	2.04563	0.00250	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
Band26	LTE/TM1	1.4	LCH	VN	-30	-1.48773	-0.00183	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
_A					-20	6.52313	0.00801	PASS
					-10	5.50747	0.00676	PASS
					0	-7.25269	-0.00890	PASS
					10	2.40326	0.00295	PASS
					20	7.23839	0.00888	PASS
					30	-1.98841	-0.00244	PASS
					40	0.95844	0.00118	PASS
					50	-14.66274	-0.01800	PASS
			MCH	VN	-30	3.81947	0.00466	PASS
					-20	3.17573	0.00388	PASS
					-10	-6.10828	-0.00746	PASS
					0	-11.55853	-0.01411	PASS
					10	-1.93119	-0.00236	PASS
					20	5.23567	0.00639	PASS
					30	-11.50131	-0.01404	PASS
					40	-11.05785	-0.01350	PASS
					50	8.49724	0.01038	PASS
			HCH	VN	-30	-3.91960	-0.00476	PASS
					-20	0.44346	0.00054	PASS
					-10	1.28746	0.00156	PASS
					0	-3.36170	-0.00408	PASS
					10	18.31055	0.02224	PASS
					20	3.04699	0.00370	PASS
					30	-6.38008	-0.00775	PASS
					40	-5.17845	-0.00629	PASS
					50	-4.64916	-0.00565	PASS
		3	LCH	VN	-30	1.21593	0.00149	PASS
					-20	-2.83241	-0.00347	PASS
					-10	-1.67370	-0.00205	PASS
					0	-0.70095	-0.00086	PASS
					10	-1.58787	-0.00195	PASS
					20	-1.77383	-0.00218	PASS
					30	0.35763	0.00044	PASS
					40	-1.64509	-0.00202	PASS
					50	0.41485	0.00051	PASS
			MCH	VN	-30	0.67234	0.00082	PASS
					-20	0.38624	0.00047	PASS
					-10	5.99384	0.00732	PASS
					0	-10.35690	-0.01265	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-1.83106	-0.00224	PASS
					20	-14.57691	-0.01780	PASS
					30	1.15871	0.00141	PASS
					40	4.90665	0.00599	PASS
					50	6.09398	0.00744	PASS
			HCH	VN	-30	2.43187	0.00296	PASS
					-20	4.99249	0.00607	PASS
					-10	-2.91824	-0.00355	PASS
					0	-5.87940	-0.00715	PASS
					10	-0.98705	-0.00120	PASS
					20	4.90665	0.00597	PASS
					30	-5.33581	-0.00649	PASS
					40	-2.14577	-0.00261	PASS
					50	-7.02381	-0.00854	PASS
		5	LCH	VN	-30	2.87533	0.00352	PASS
					-20	0.11444	0.00014	PASS
					-10	1.21593	0.00149	PASS
					0	0.72956	0.00089	PASS
					10	0.45776	0.00056	PASS
					20	0.95844	0.00117	PASS
					30	1.50204	0.00184	PASS
					40	1.20163	0.00147	PASS
					50	-2.57492	-0.00315	PASS
			MCH	VN	-30	3.51906	0.00430	PASS
					-20	5.10693	0.00624	PASS
					-10	-4.09126	-0.00500	PASS
					0	-2.97546	-0.00363	PASS
					10	-9.18388	-0.01121	PASS
					20	-4.34875	-0.00531	PASS
					30	4.23431	0.00517	PASS
					40	-1.17302	-0.00143	PASS
					50	-4.92096	-0.00601	PASS
			HCH	VN	-30	-0.34332	-0.00042	PASS
					-20	-1.18732	-0.00145	PASS
					-10	0.50068	0.00061	PASS
					0	-1.14441	-0.00139	PASS
					10	-0.85831	-0.00104	PASS
					20	1.73092	0.00211	PASS
					30	1.77383	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	MCH	VN	40	-1.27316	-0.00155	PASS
					50	-2.27451	-0.00277	PASS
					-30	1.47343	0.00180	PASS
					-20	0.47207	0.00058	PASS
					-10	3.51906	0.00430	PASS
					0	1.24455	0.00152	PASS
					10	-7.35283	-0.00898	PASS
					20	0.60081	0.00073	PASS
					30	2.73228	0.00334	PASS
					40	-2.37465	-0.00290	PASS
					50	-0.30041	-0.00037	PASS
	LTE/TM2	1.4	LCH	VN	-30	-16.10756	-0.01977	PASS
					-20	1.14441	0.00140	PASS
					-10	-9.38415	-0.01152	PASS
					0	-11.24382	-0.01380	PASS
					10	-13.38959	-0.01643	PASS
					20	-6.15120	-0.00755	PASS
					30	-13.61847	-0.01672	PASS
					40	7.05242	0.00866	PASS
					50	-6.89506	-0.00846	PASS
			MCH	VN	-30	7.73907	0.00945	PASS
					-20	-1.83106	-0.00224	PASS
					-10	-0.68665	-0.00084	PASS
					0	4.37737	0.00534	PASS
					10	-10.37121	-0.01266	PASS
					20	0.82970	0.00101	PASS
					30	-6.99520	-0.00854	PASS
					40	-5.12123	-0.00625	PASS
					50	2.57492	0.00314	PASS
			HCH	VN	-30	1.71661	0.00209	PASS
					-20	6.32286	0.00768	PASS
					-10	-1.21593	-0.00148	PASS
					0	7.16686	0.00871	PASS
					10	-11.60145	-0.01409	PASS
					20	-7.63893	-0.00928	PASS
					30	-3.23296	-0.00393	PASS
					40	-9.98497	-0.01213	PASS
					50	-3.31879	-0.00403	PASS
		3	LCH	VN	-30	-0.30041	-0.00037	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-4.10557	-0.00503	PASS
					-10	-2.81811	-0.00346	PASS
					0	-3.83377	-0.00470	PASS
					10	-3.19004	-0.00391	PASS
					20	3.99113	0.00489	PASS
					30	-3.50475	-0.00430	PASS
					40	-1.27316	-0.00156	PASS
					50	-4.00543	-0.00491	PASS
			MCH	VN	-30	-4.73499	-0.00578	PASS
					-20	2.50339	0.00306	PASS
					-10	13.91888	0.01699	PASS
					0	-7.56741	-0.00924	PASS
					10	2.96116	0.00362	PASS
					20	-10.52856	-0.01286	PASS
					30	-2.13146	-0.00260	PASS
					40	-6.98090	-0.00852	PASS
					50	8.06808	0.00985	PASS
			HCH	VN	-30	-5.50747	-0.00670	PASS
					-20	4.79221	0.00583	PASS
					-10	-4.93527	-0.00600	PASS
					0	3.36170	0.00409	PASS
					10	6.32286	0.00769	PASS
					20	-0.70095	-0.00085	PASS
					30	-3.21865	-0.00391	PASS
					40	-2.11716	-0.00257	PASS
					50	-0.82970	-0.00101	PASS
		5	LCH	VN	-30	-5.23567	-0.00641	PASS
					-20	-2.10285	-0.00258	PASS
					-10	0.72956	0.00089	PASS
					0	-0.25749	-0.00032	PASS
					10	-3.63350	-0.00445	PASS
					20	-1.55926	-0.00191	PASS
					30	-0.95844	-0.00117	PASS
					40	1.24455	0.00152	PASS
					50	-1.91688	-0.00235	PASS
			MCH	VN	-30	-0.50068	-0.00061	PASS
					-20	15.32078	0.01871	PASS
					-10	-0.62943	-0.00077	PASS
					0	4.60625	0.00562	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	1.23024	0.00150	PASS
					20	-3.00407	-0.00367	PASS
					30	-3.01838	-0.00369	PASS
					40	0.37193	0.00045	PASS
					50	2.74658	0.00335	PASS
			HCH	VN	-30	3.06129	0.00373	PASS
					-20	5.66483	0.00690	PASS
					-10	2.51770	0.00306	PASS
					0	3.36170	0.00409	PASS
					10	4.00543	0.00488	PASS
		10	MCH	VN	20	3.01838	0.00367	PASS
					30	0.52929	0.00064	PASS
					40	-0.34332	-0.00042	PASS
					50	1.83106	0.00223	PASS
					-30	3.66211	0.00447	PASS
					-20	1.33038	0.00162	PASS
					-10	1.61648	0.00197	PASS
					0	2.80380	0.00342	PASS
					10	2.67506	0.00327	PASS
					20	0.14305	0.00017	PASS
					30	-2.90394	-0.00355	PASS
					40	-1.84536	-0.00225	PASS
					50	-4.07696	-0.00498	PASS

END