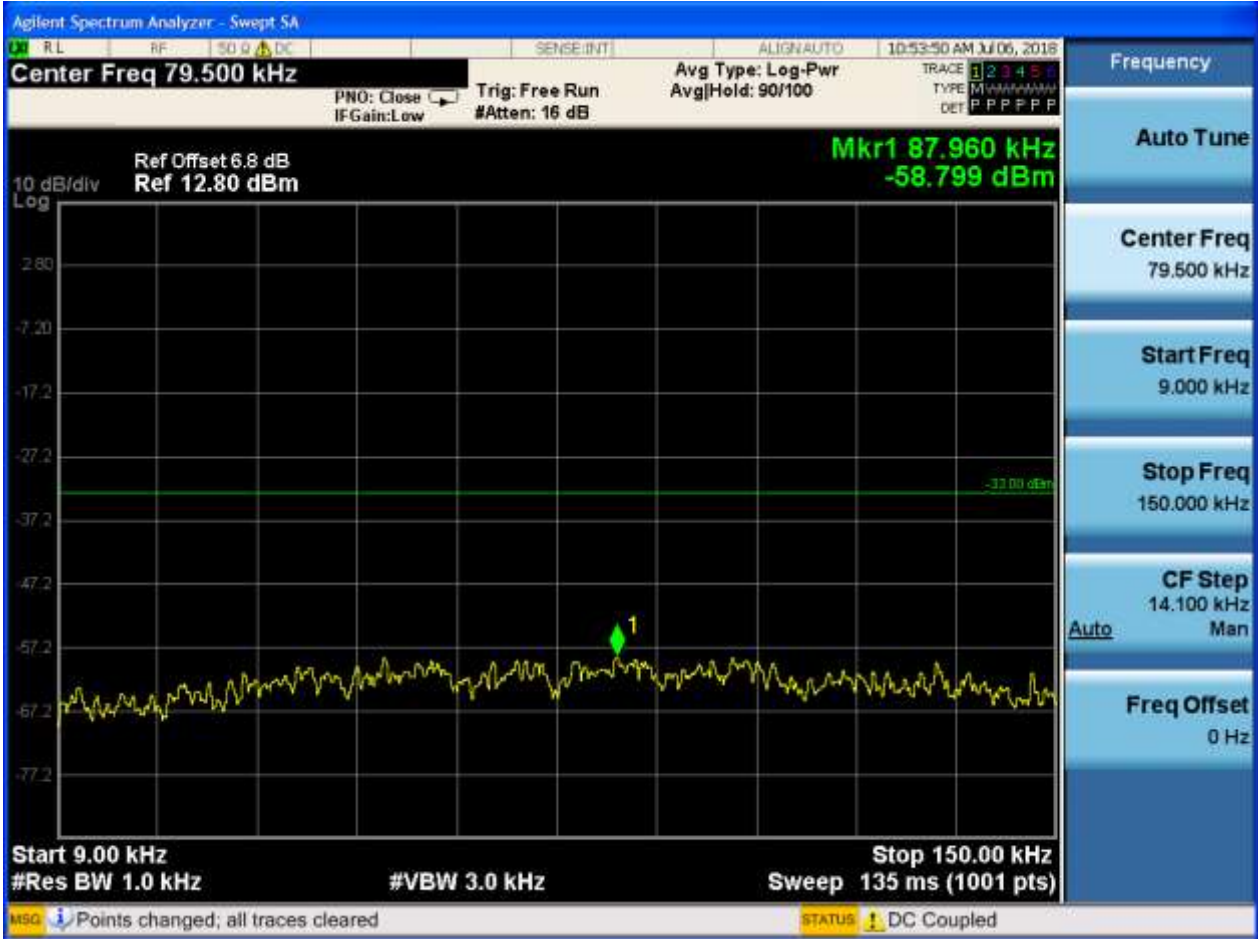




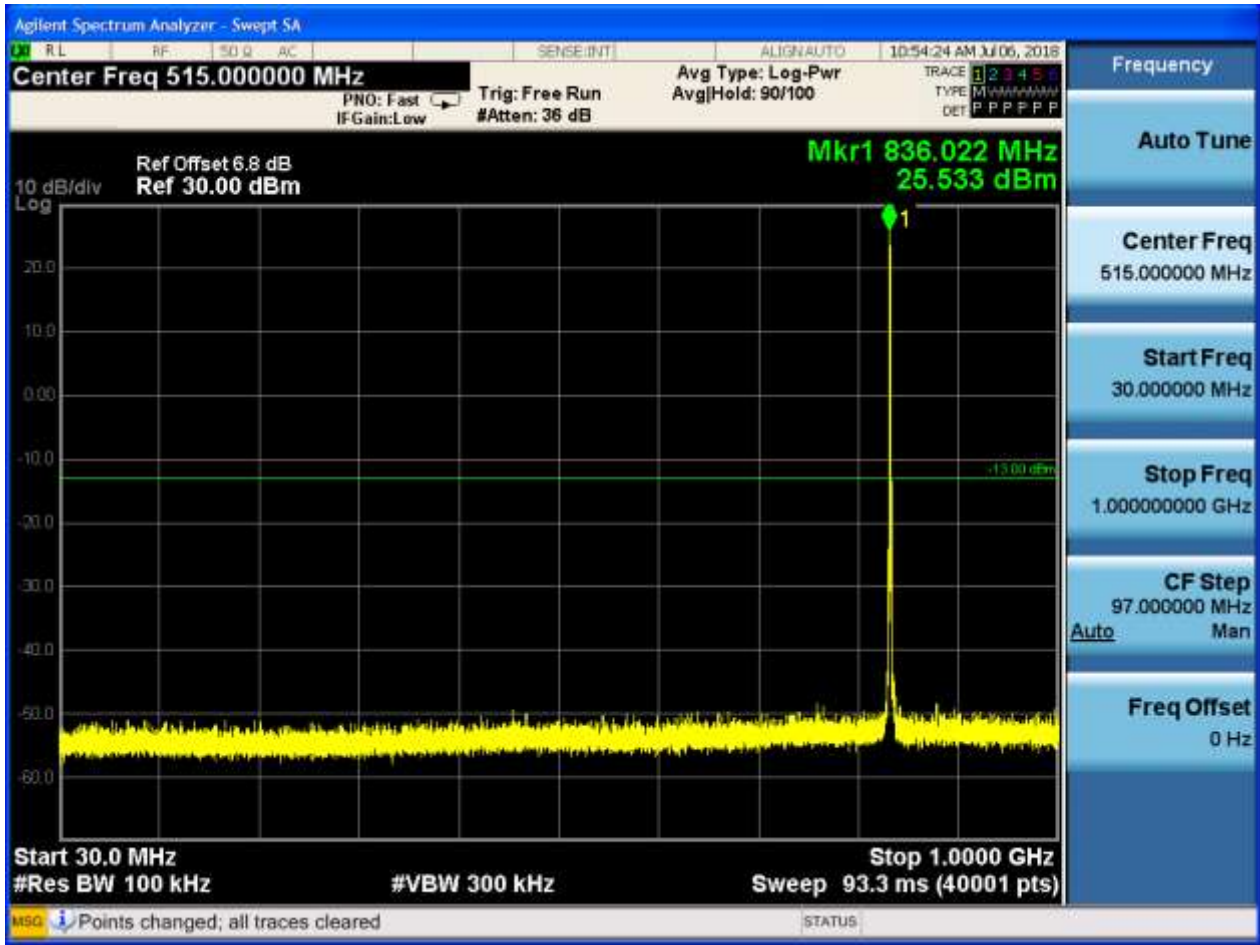


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0





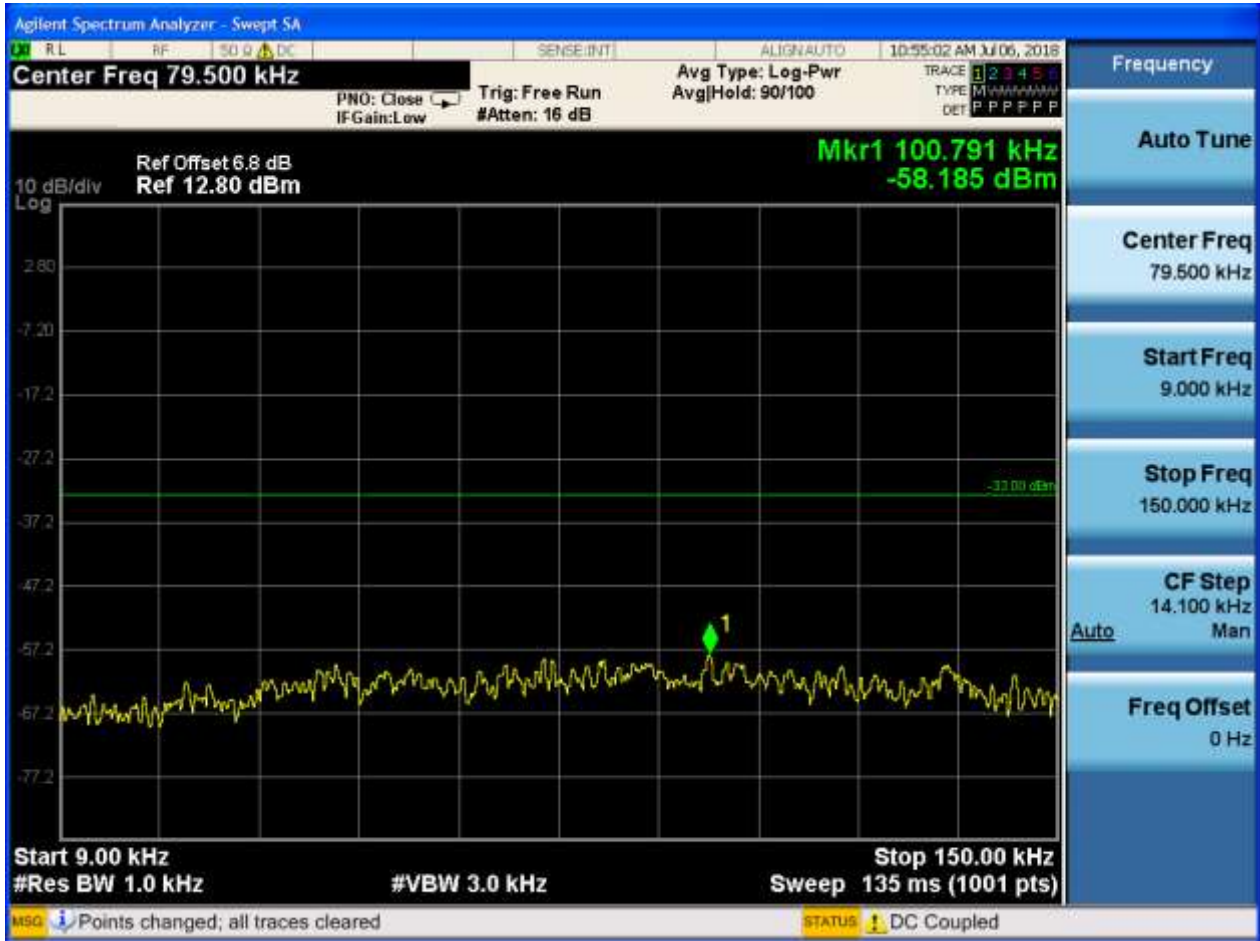




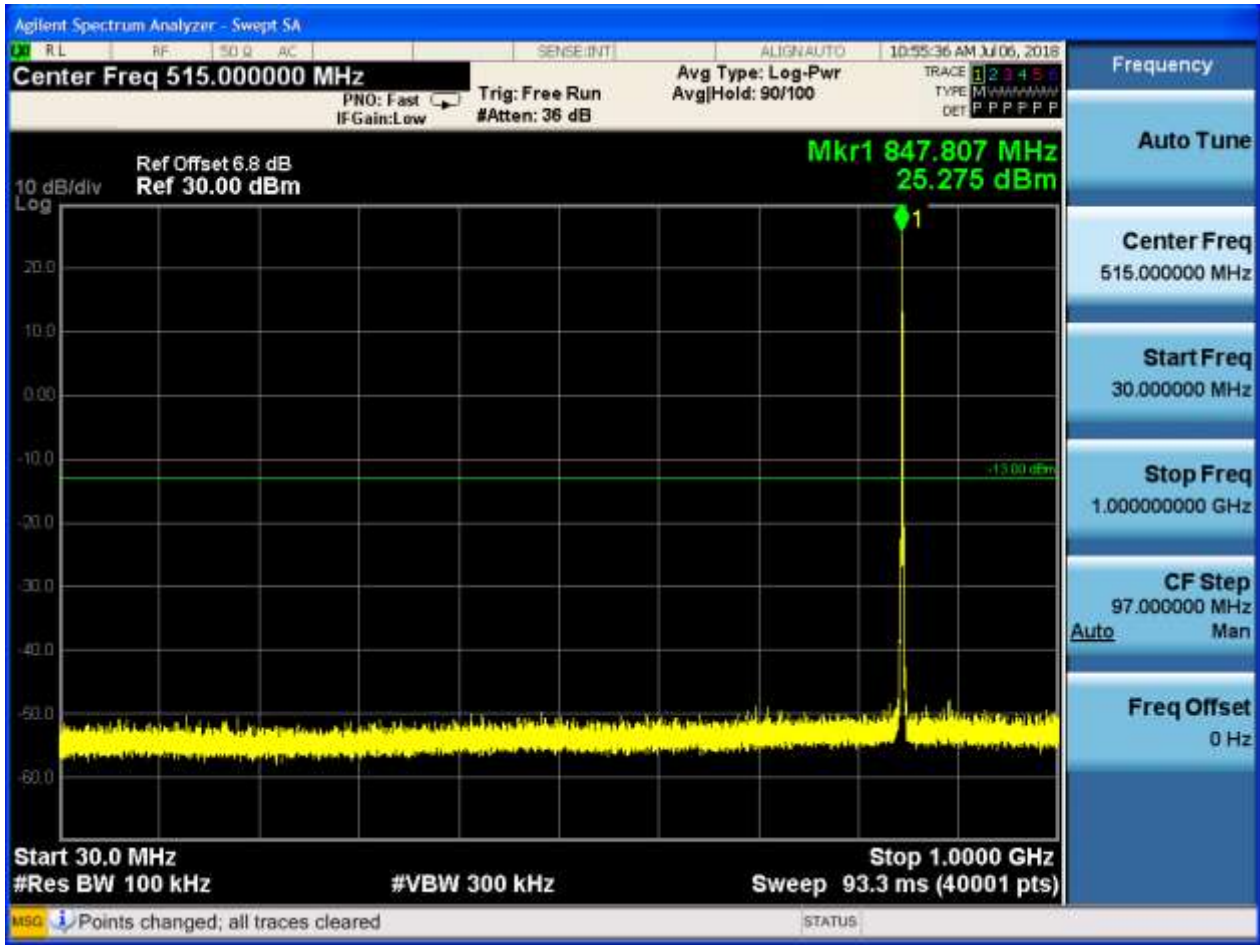


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0











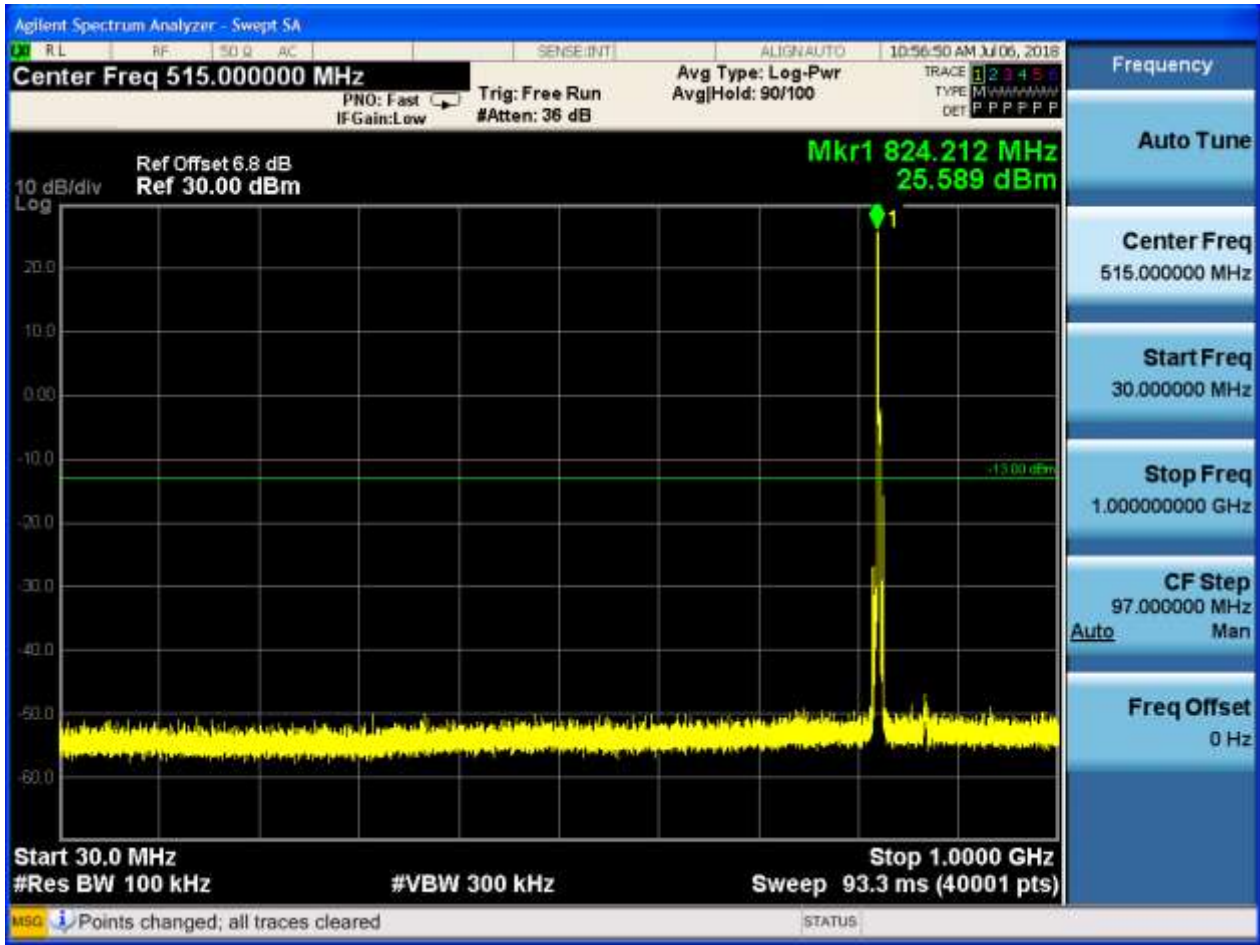
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0





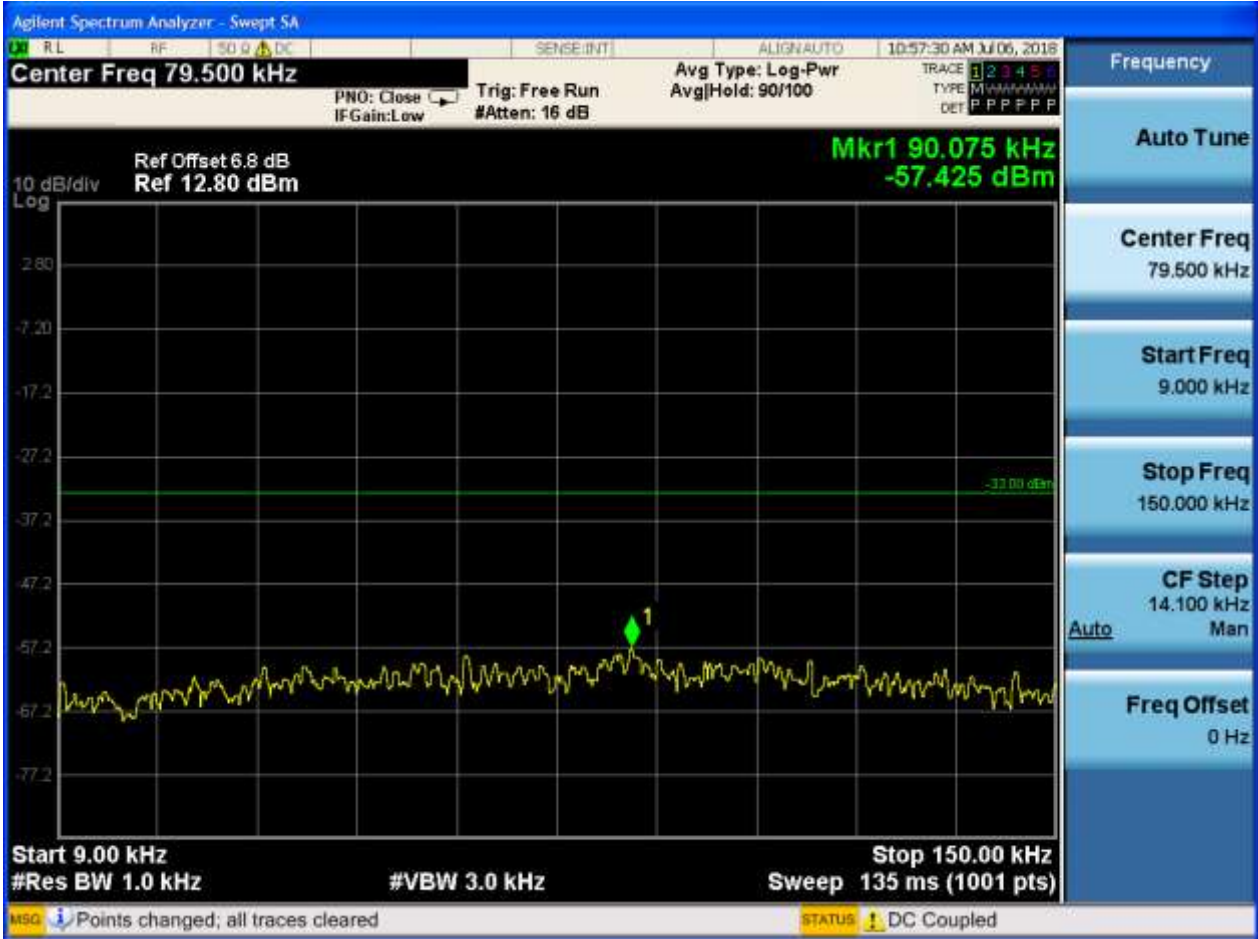




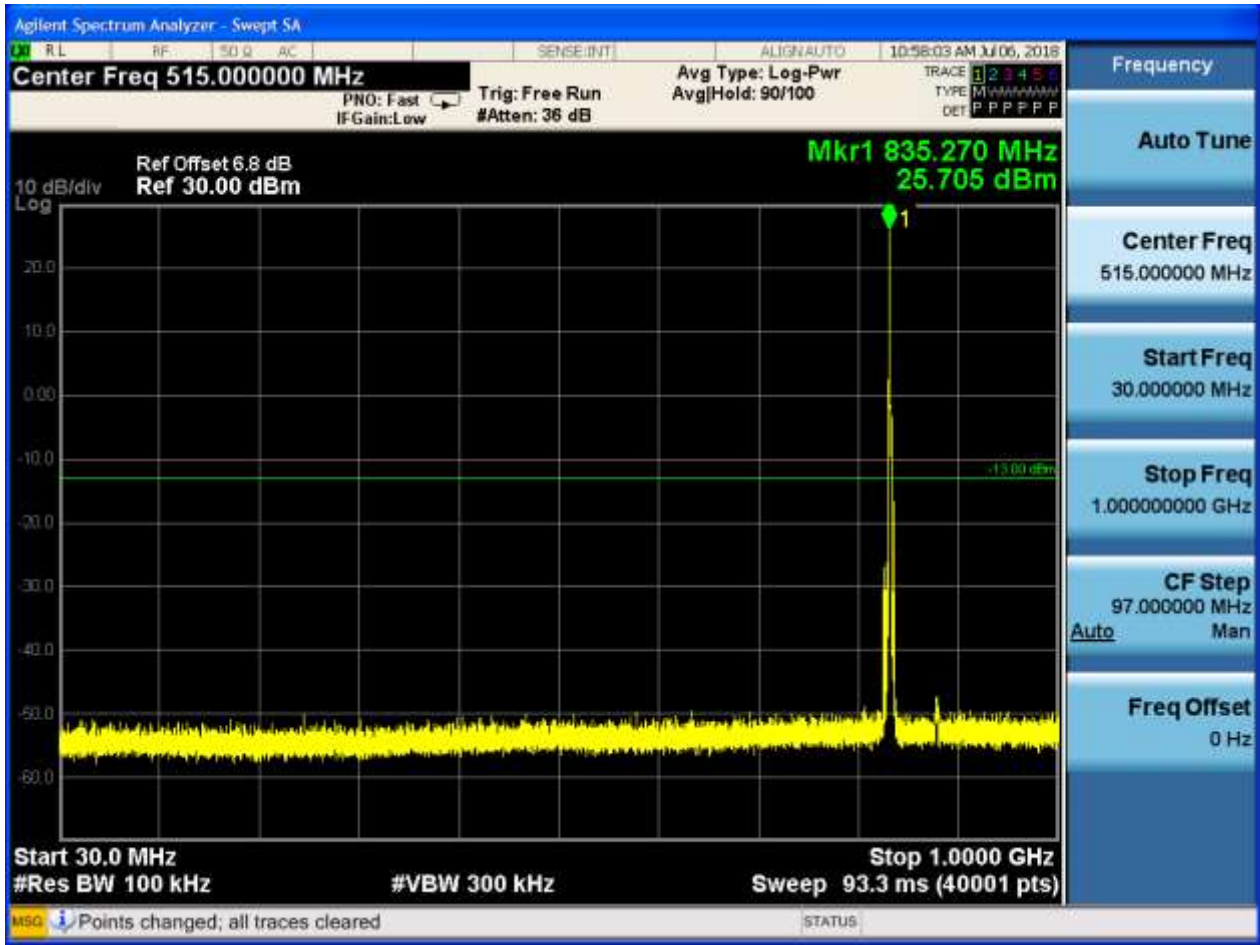


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





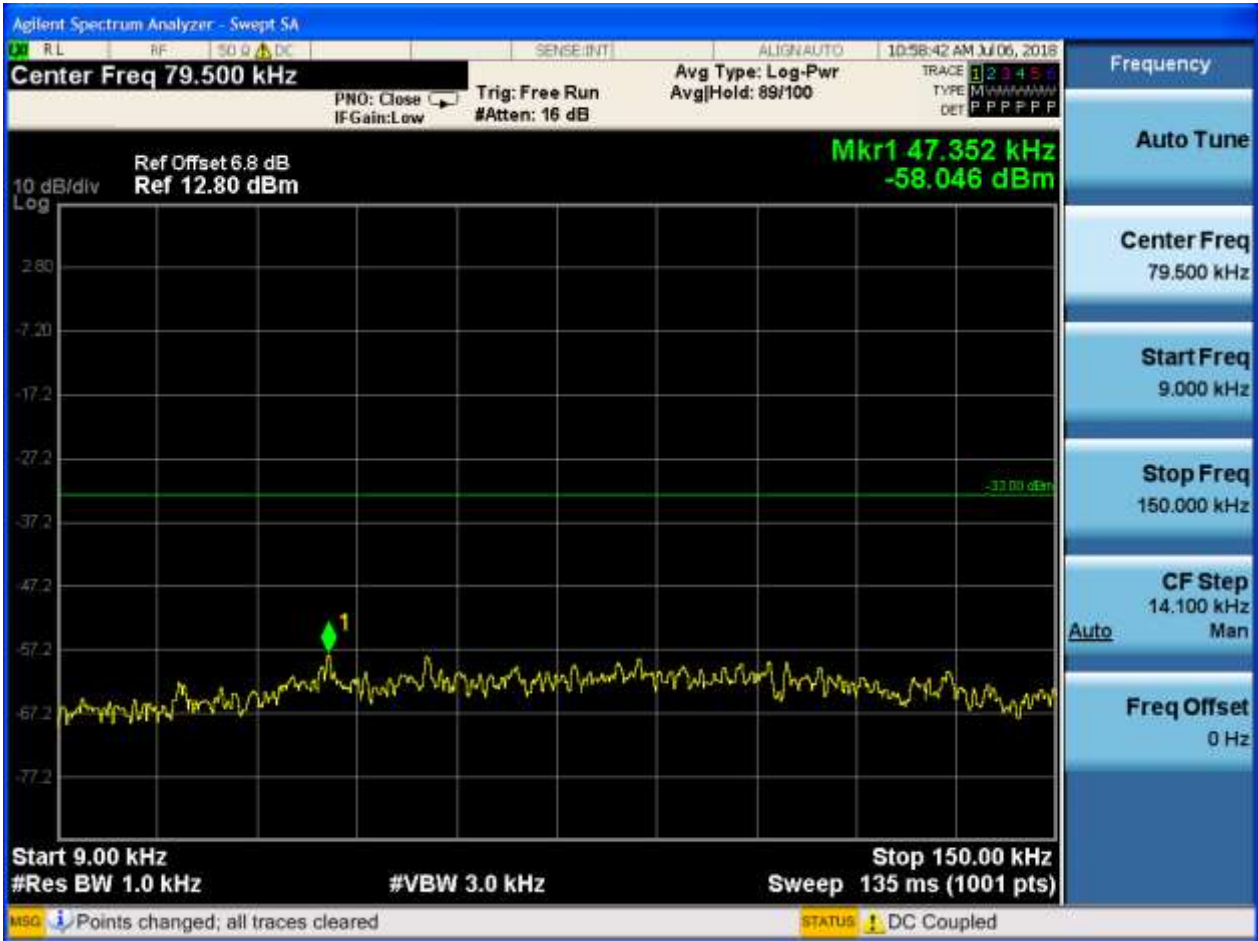




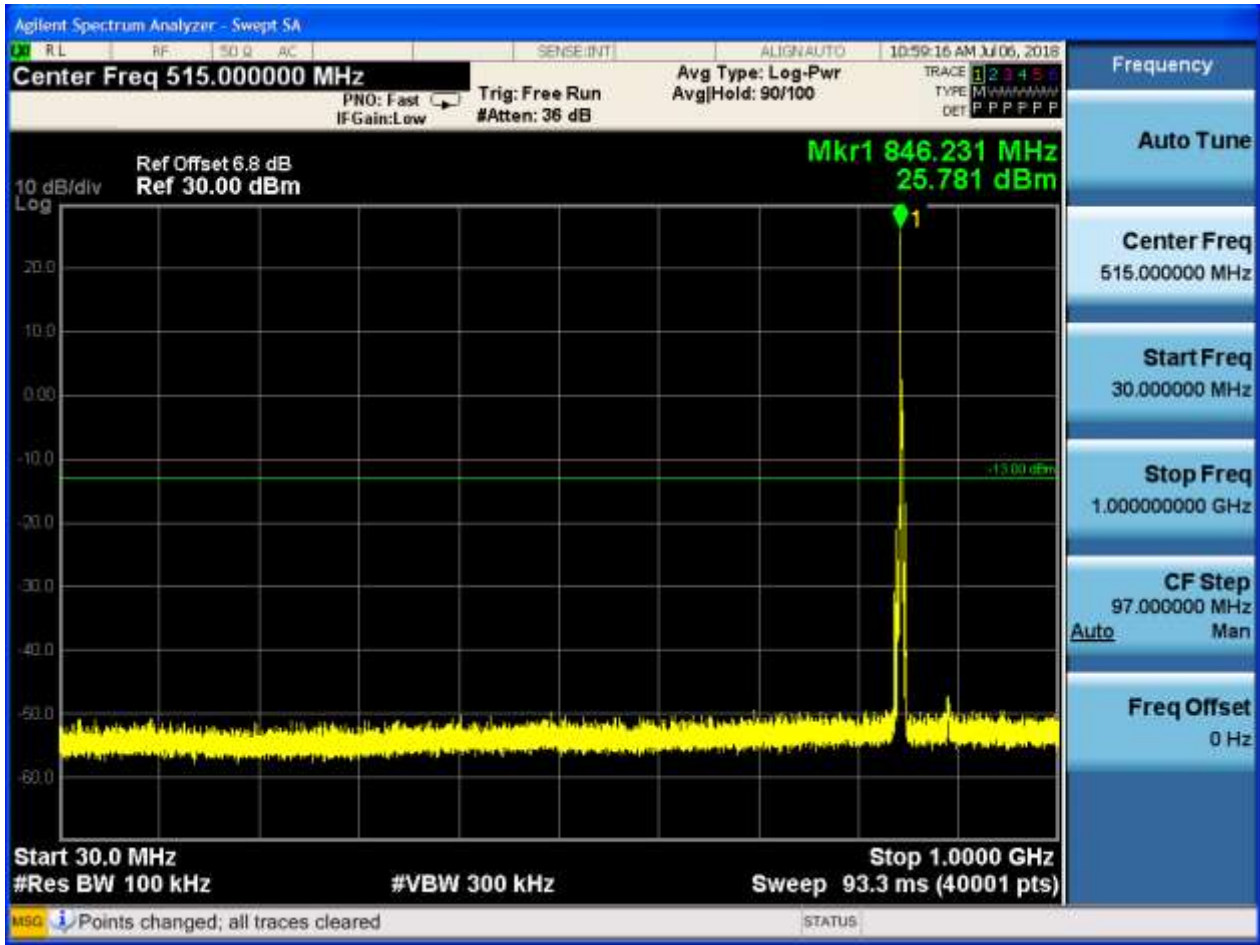


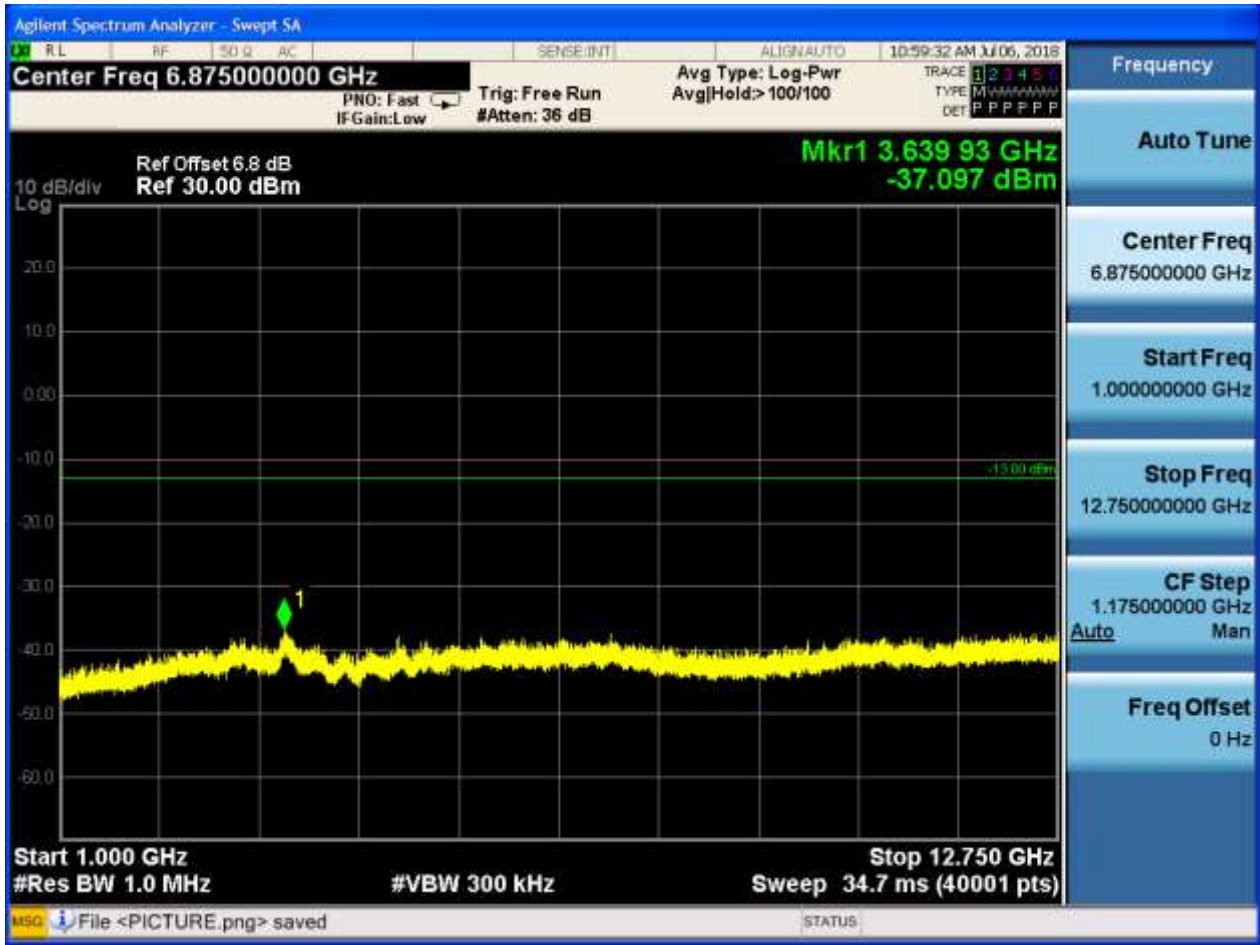
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







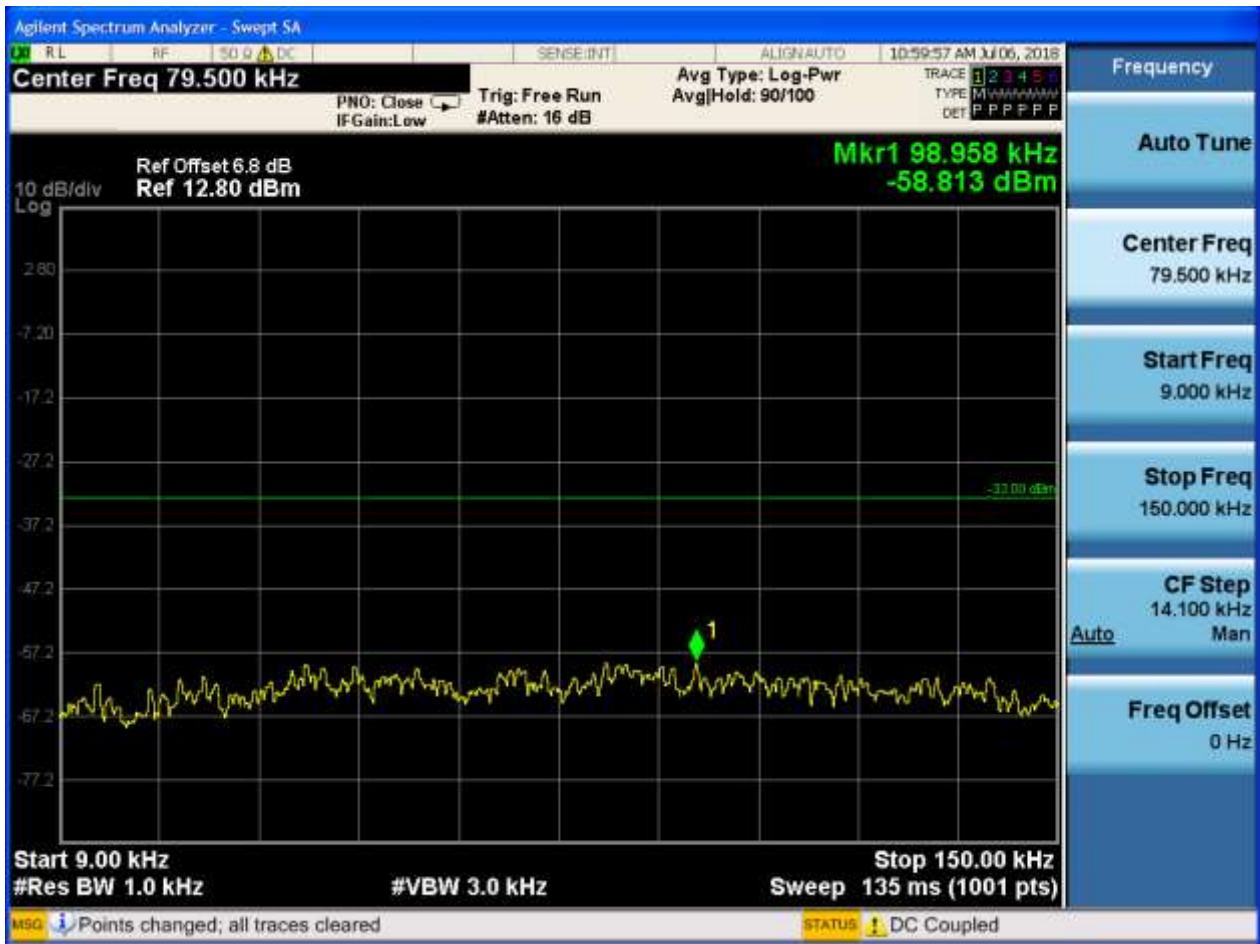




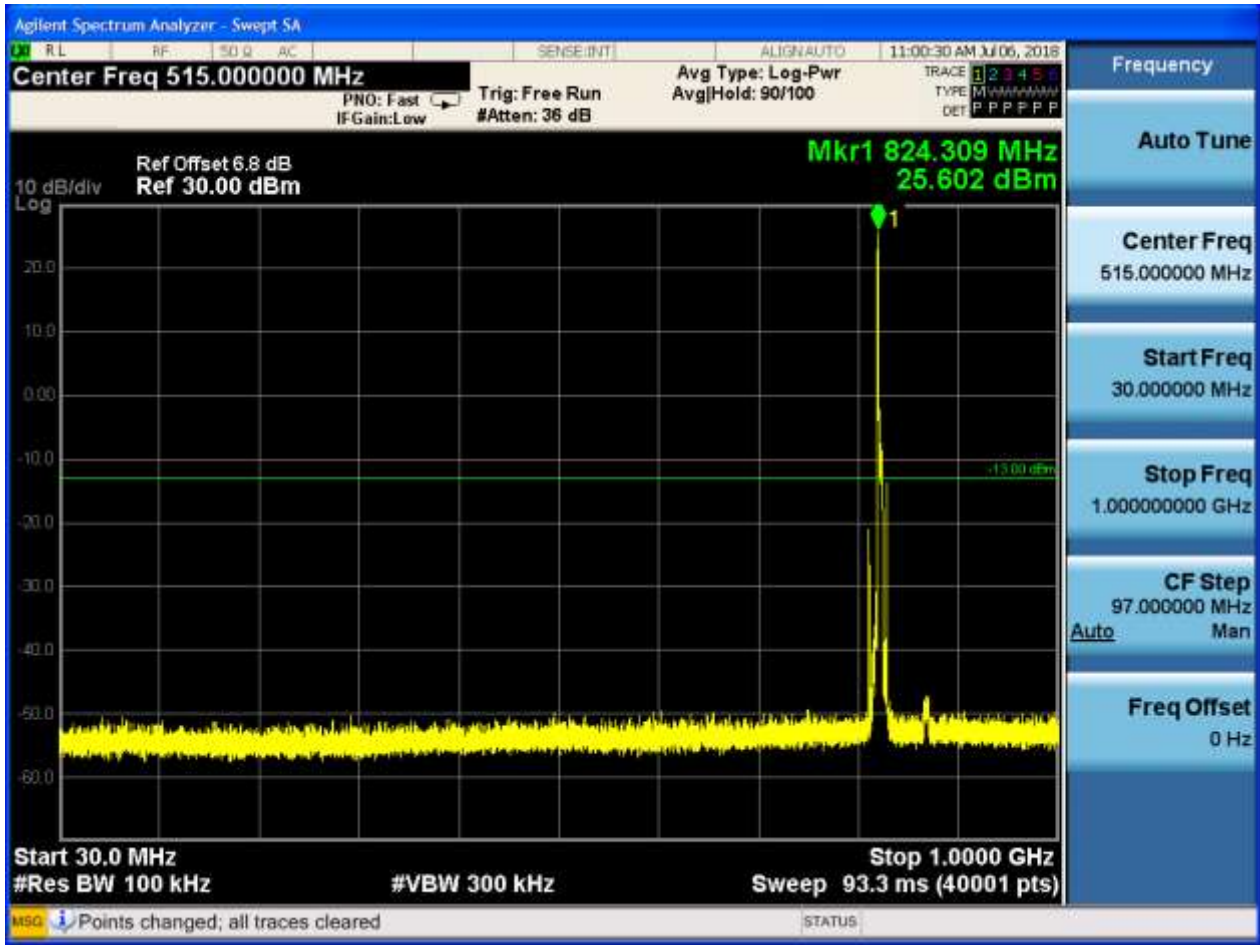
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0









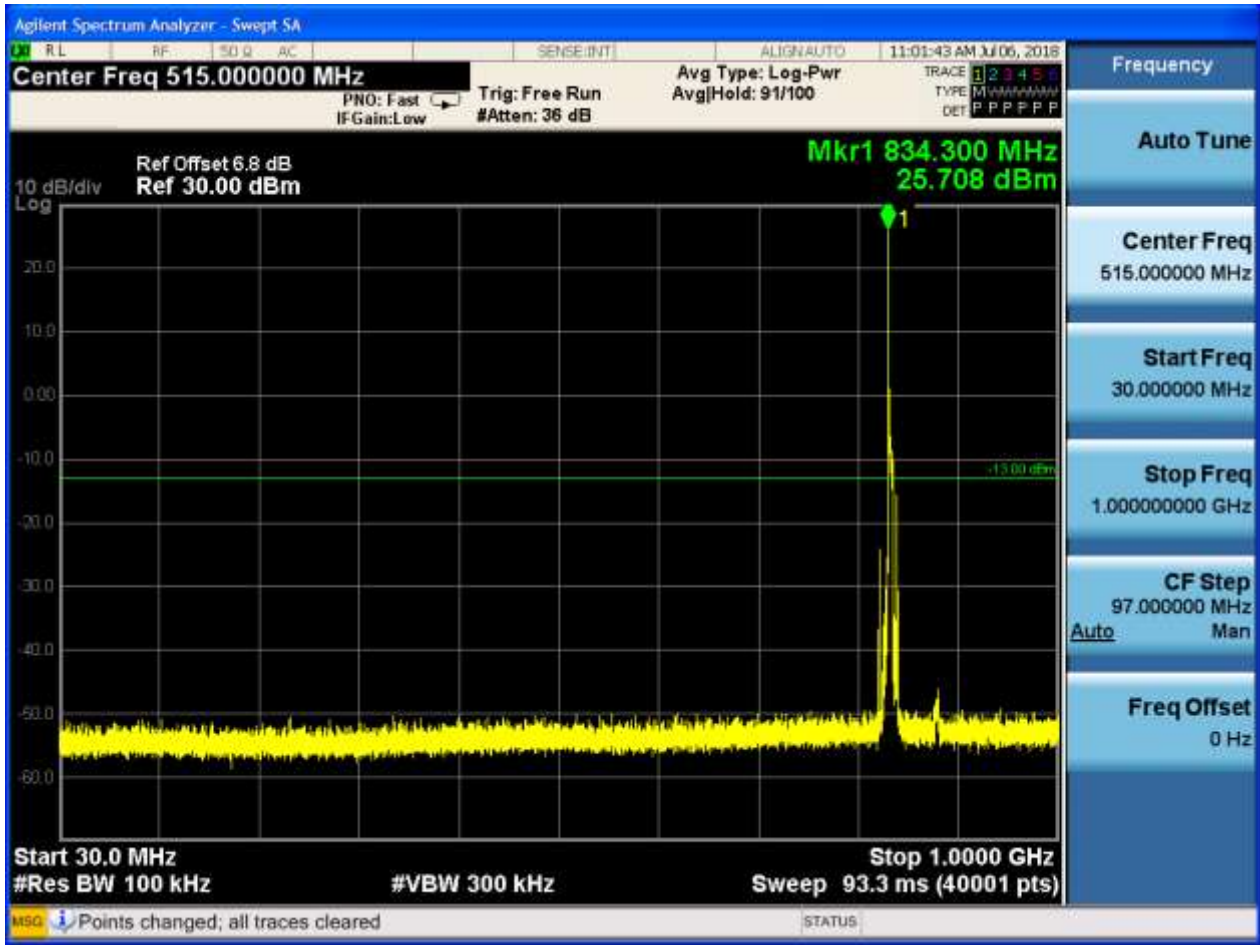


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





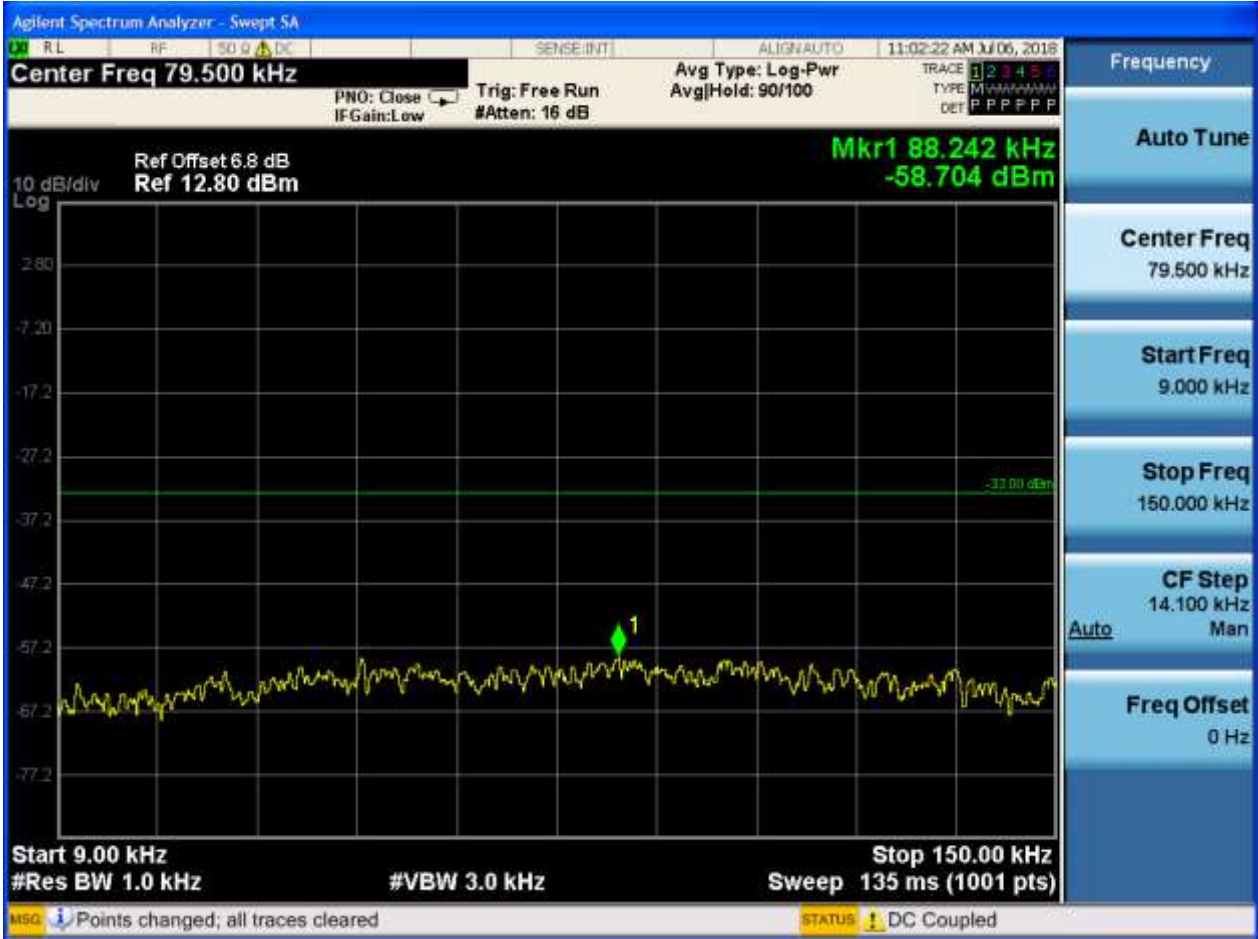




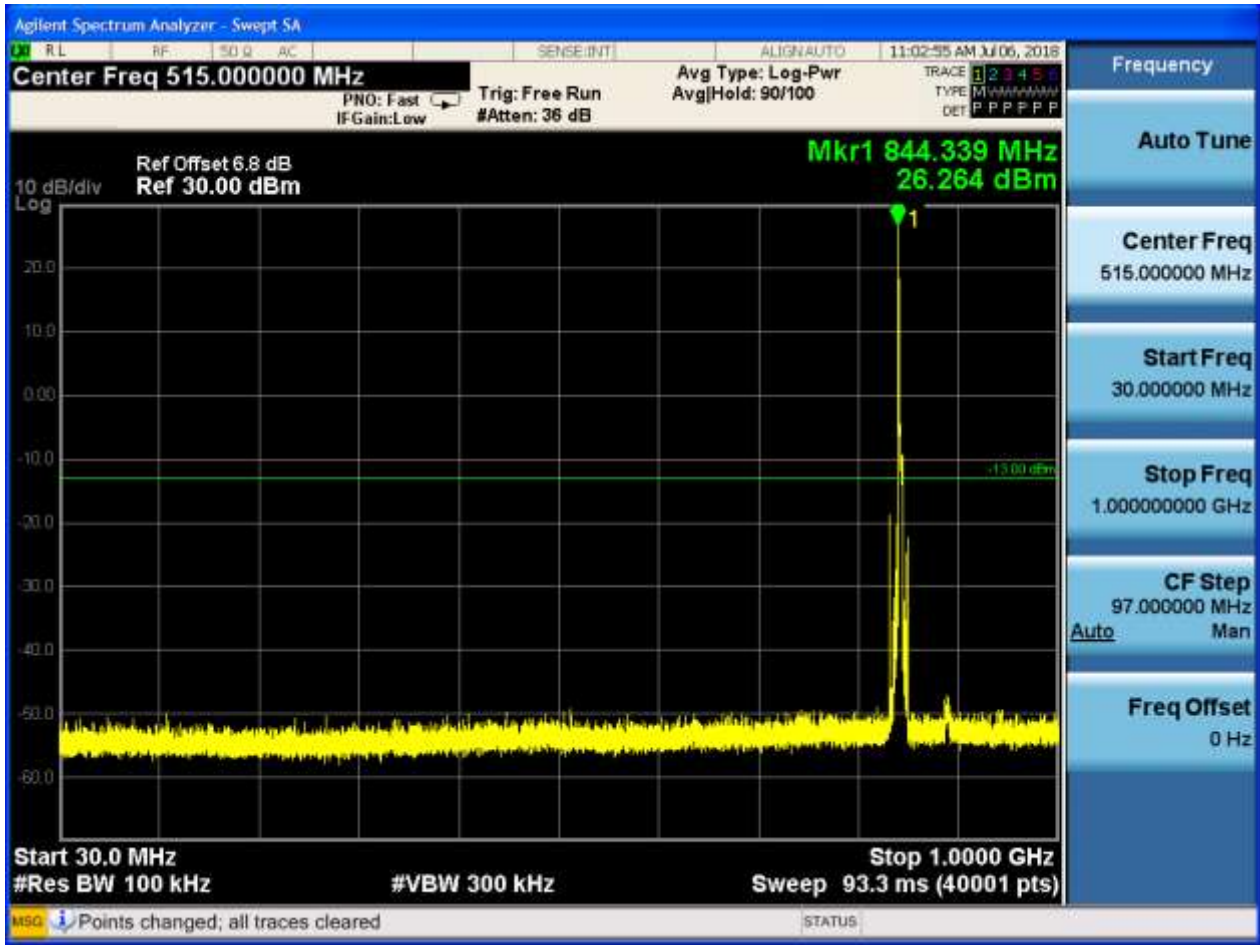


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0











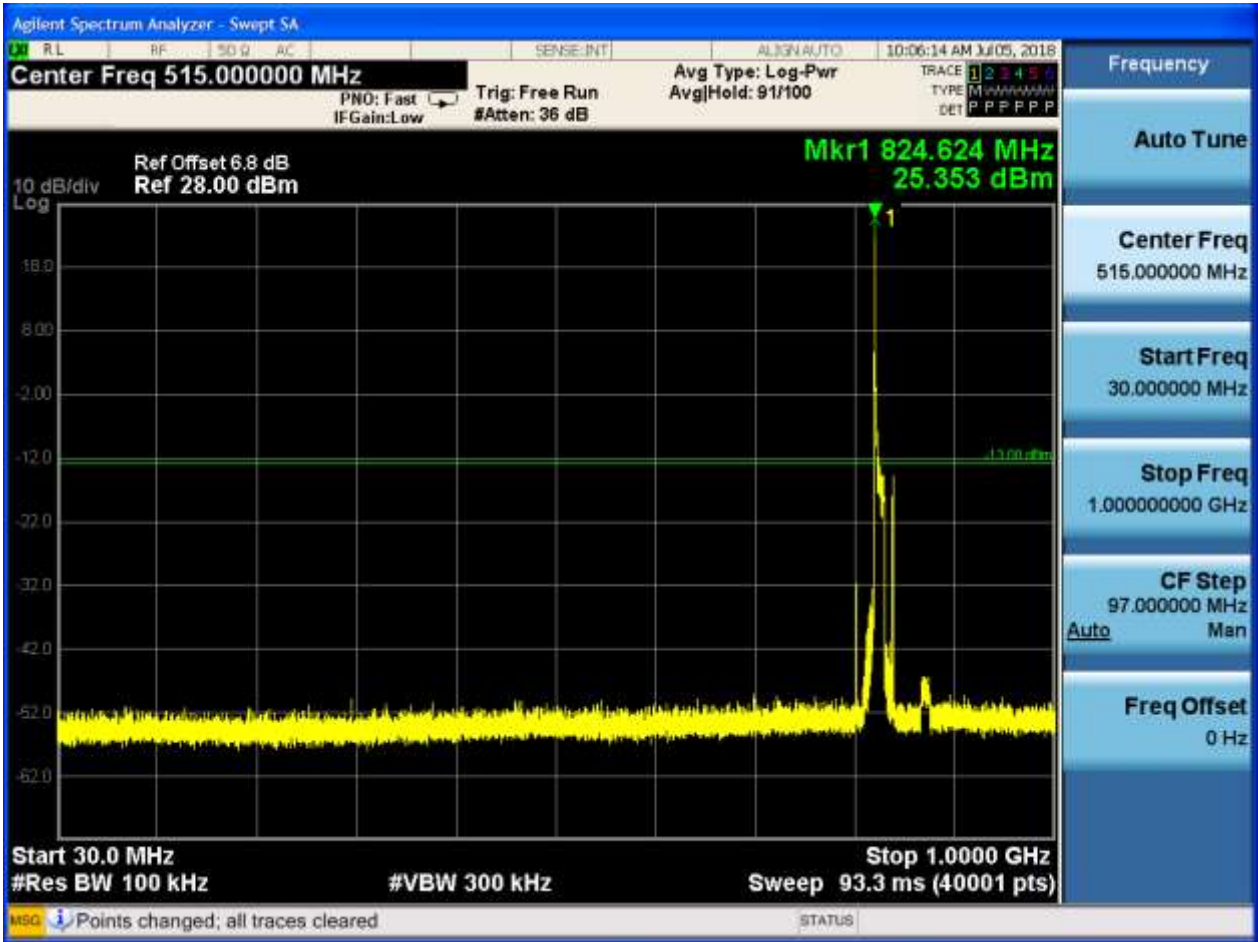
6.1.1.1.4 Test Bandwidth = 10

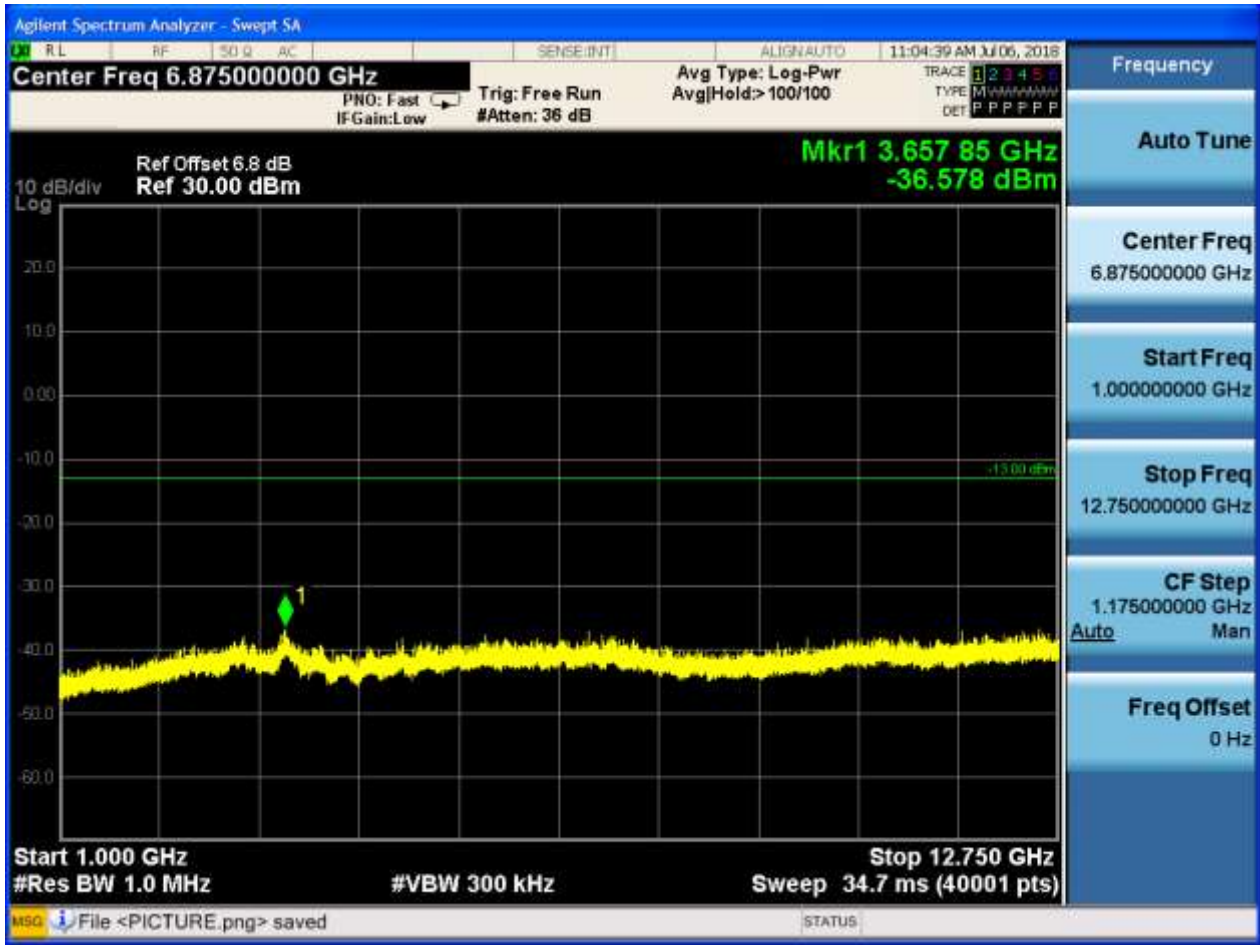
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0









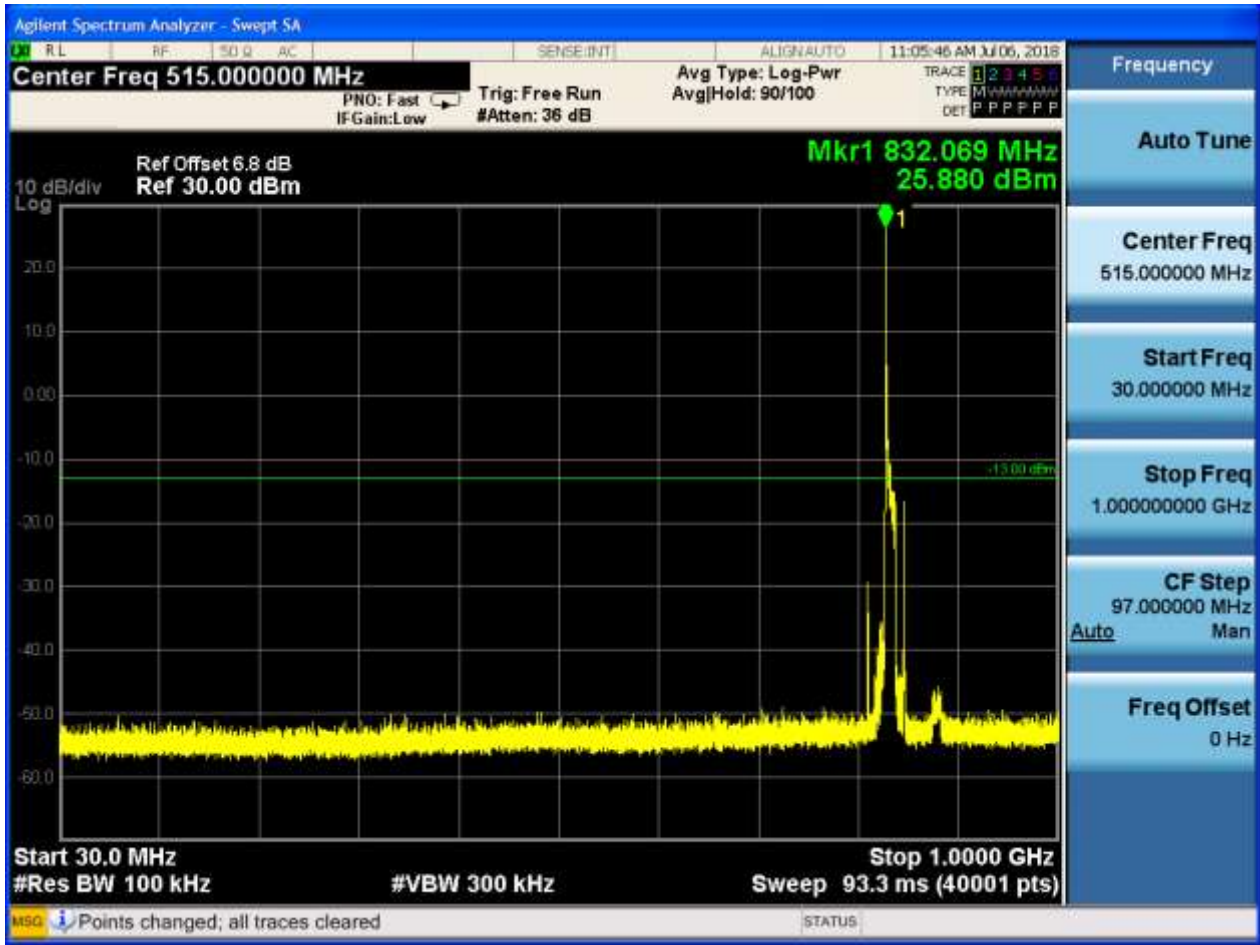


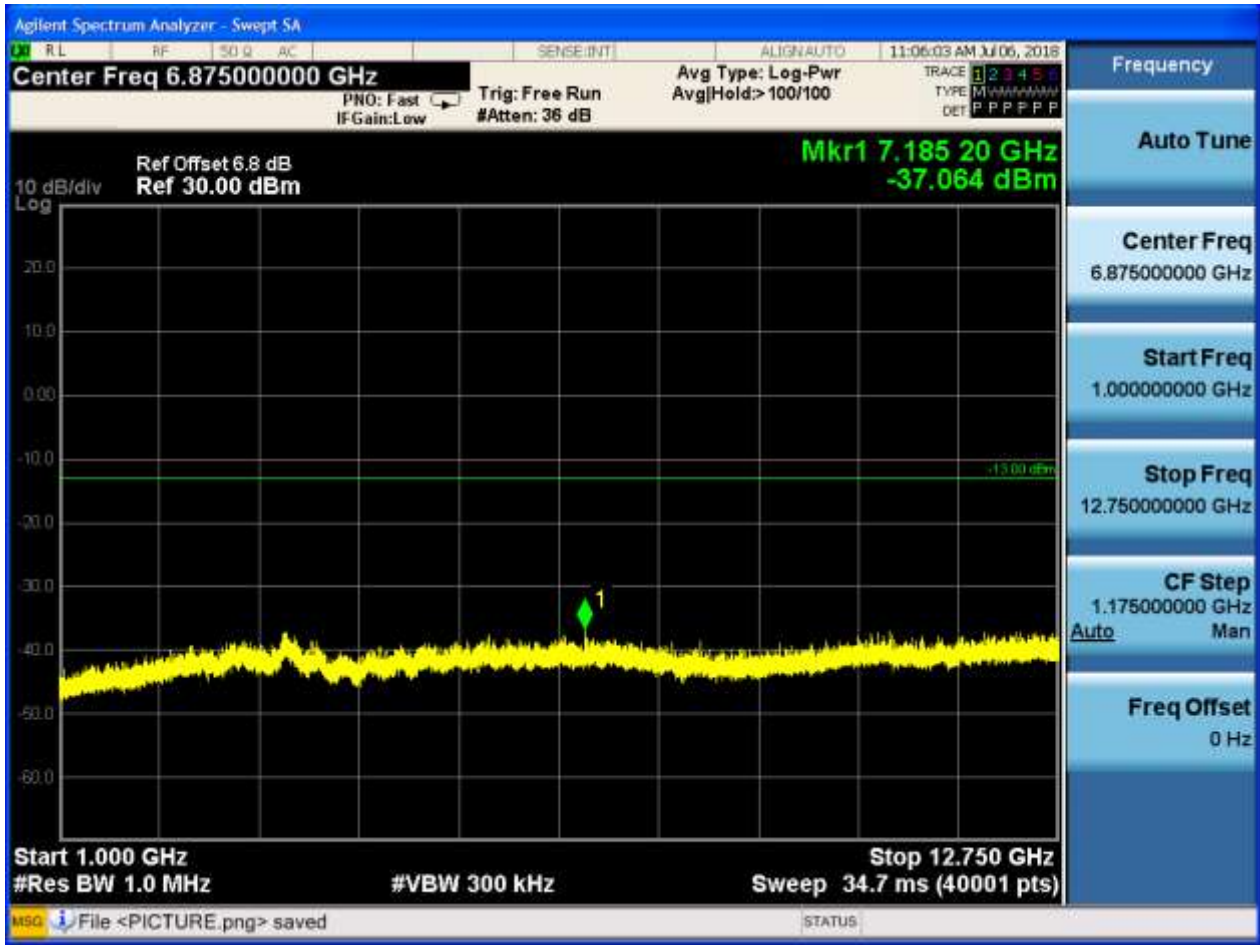
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0









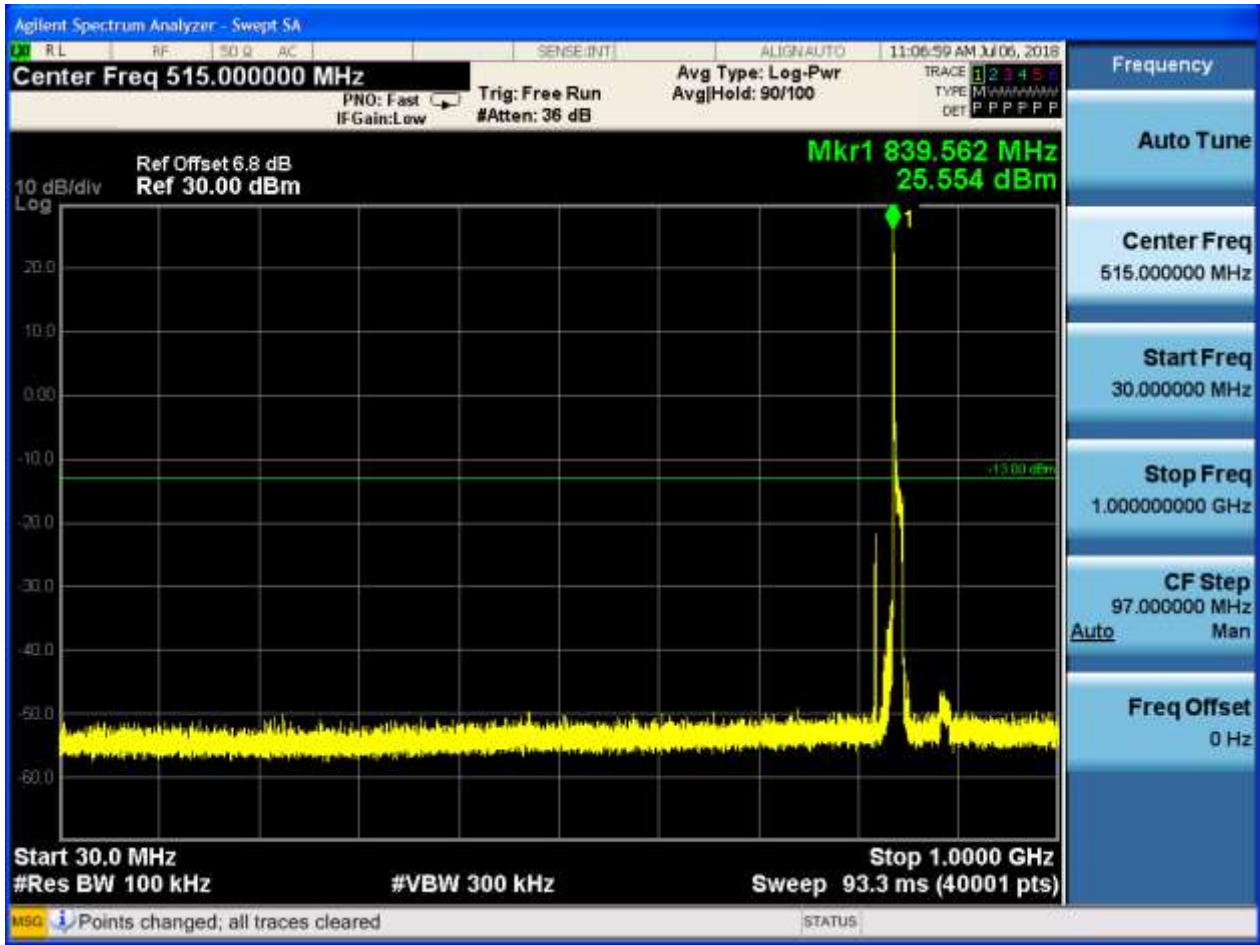


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









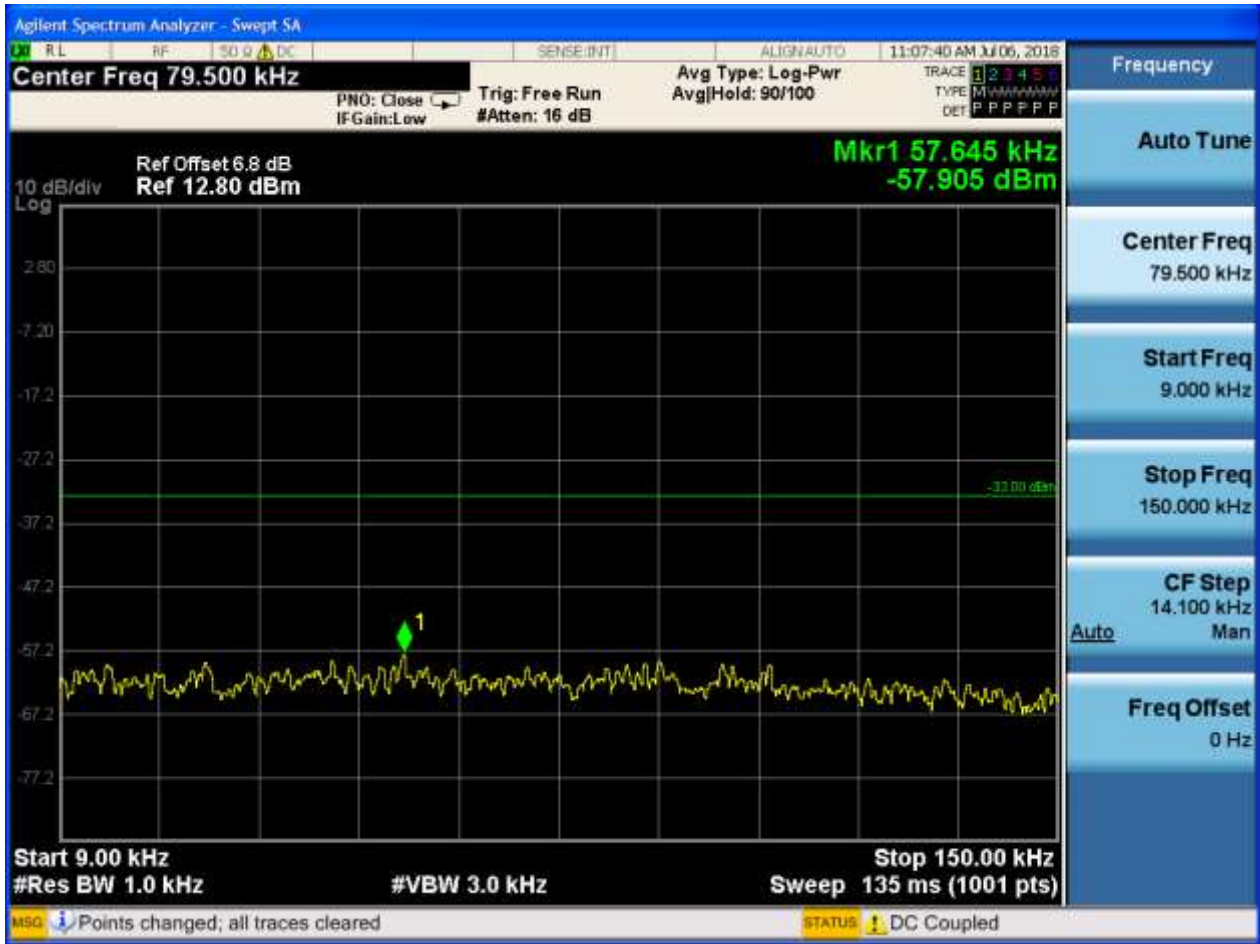


6.1.1.2 Test Mode = LTE/TM2

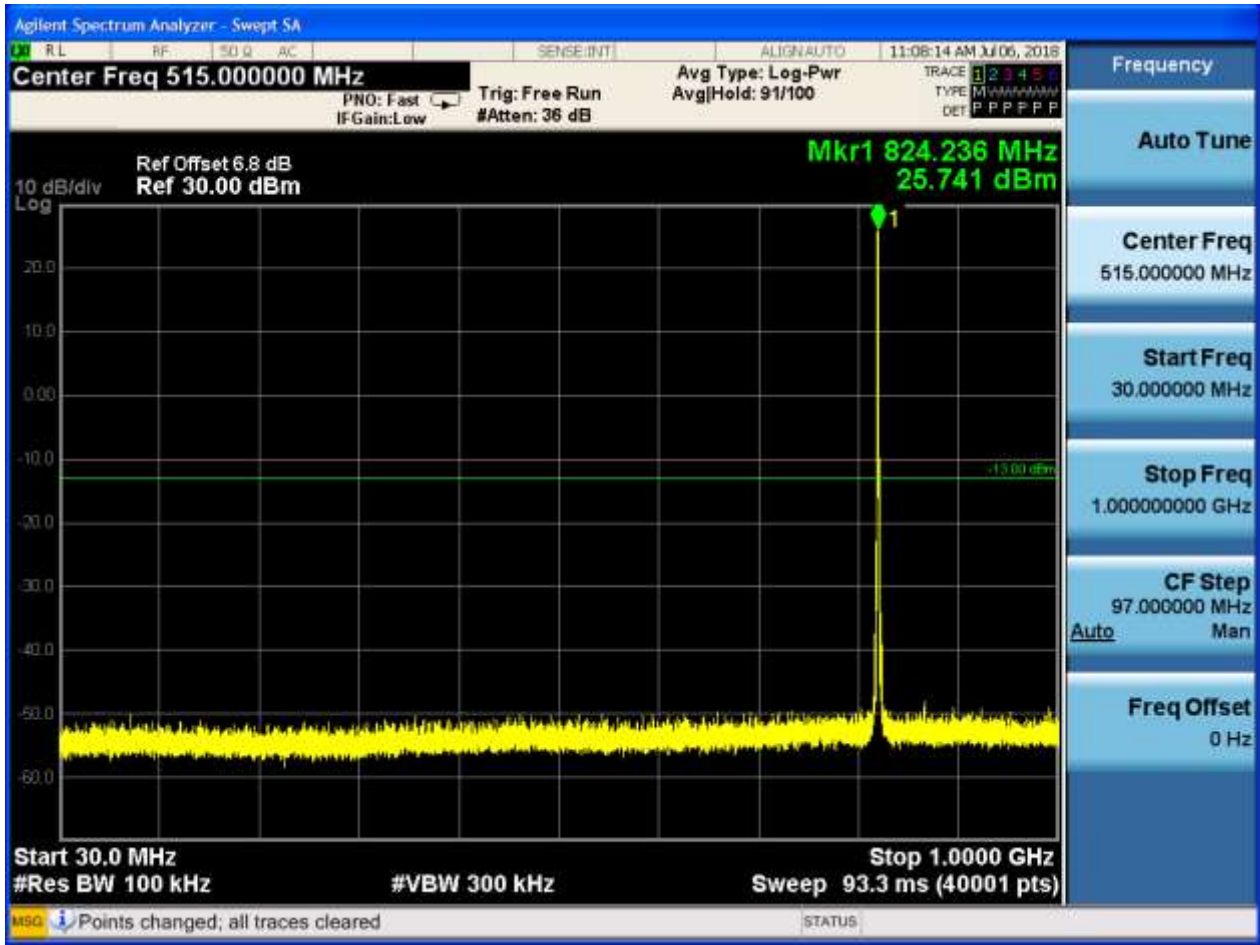
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





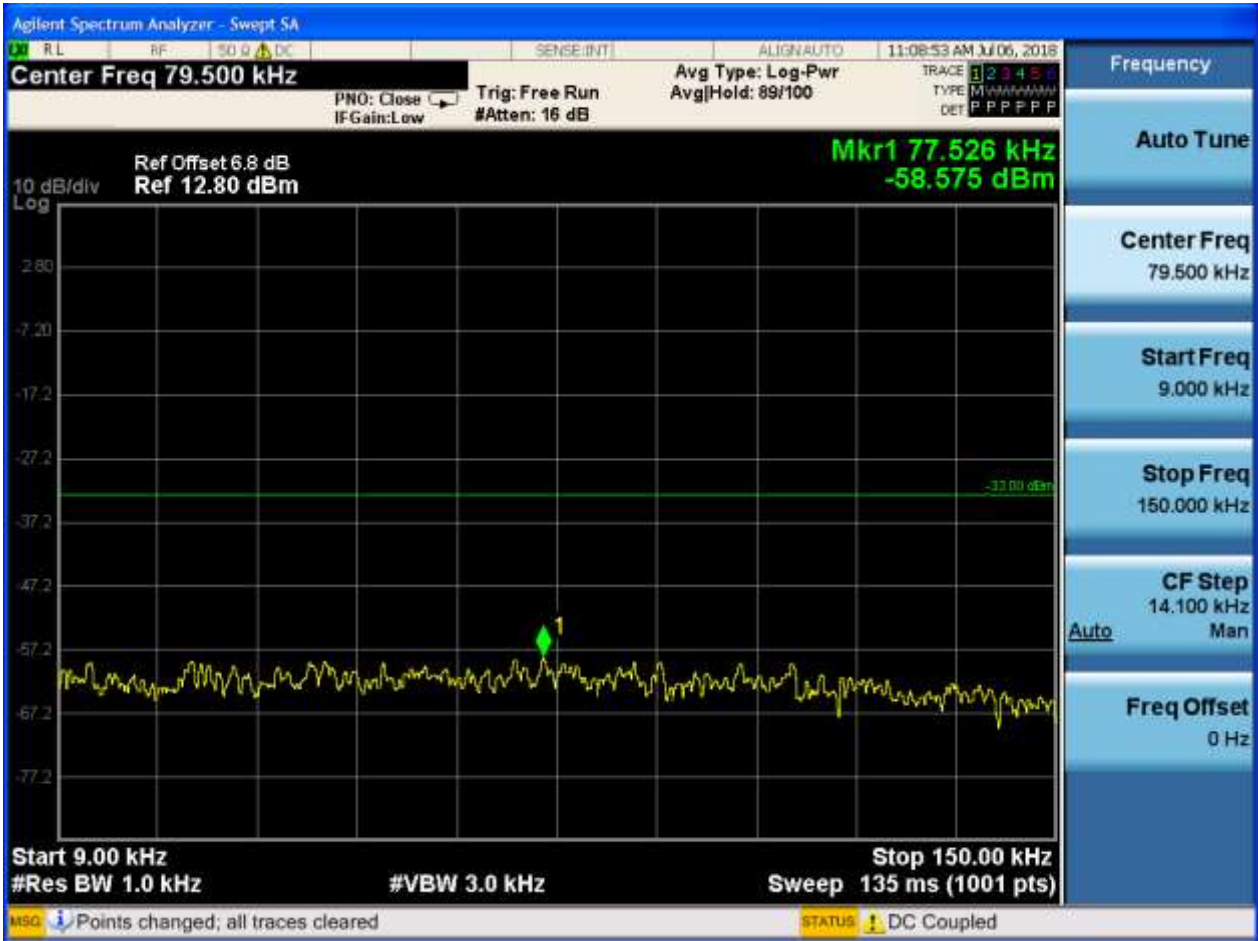




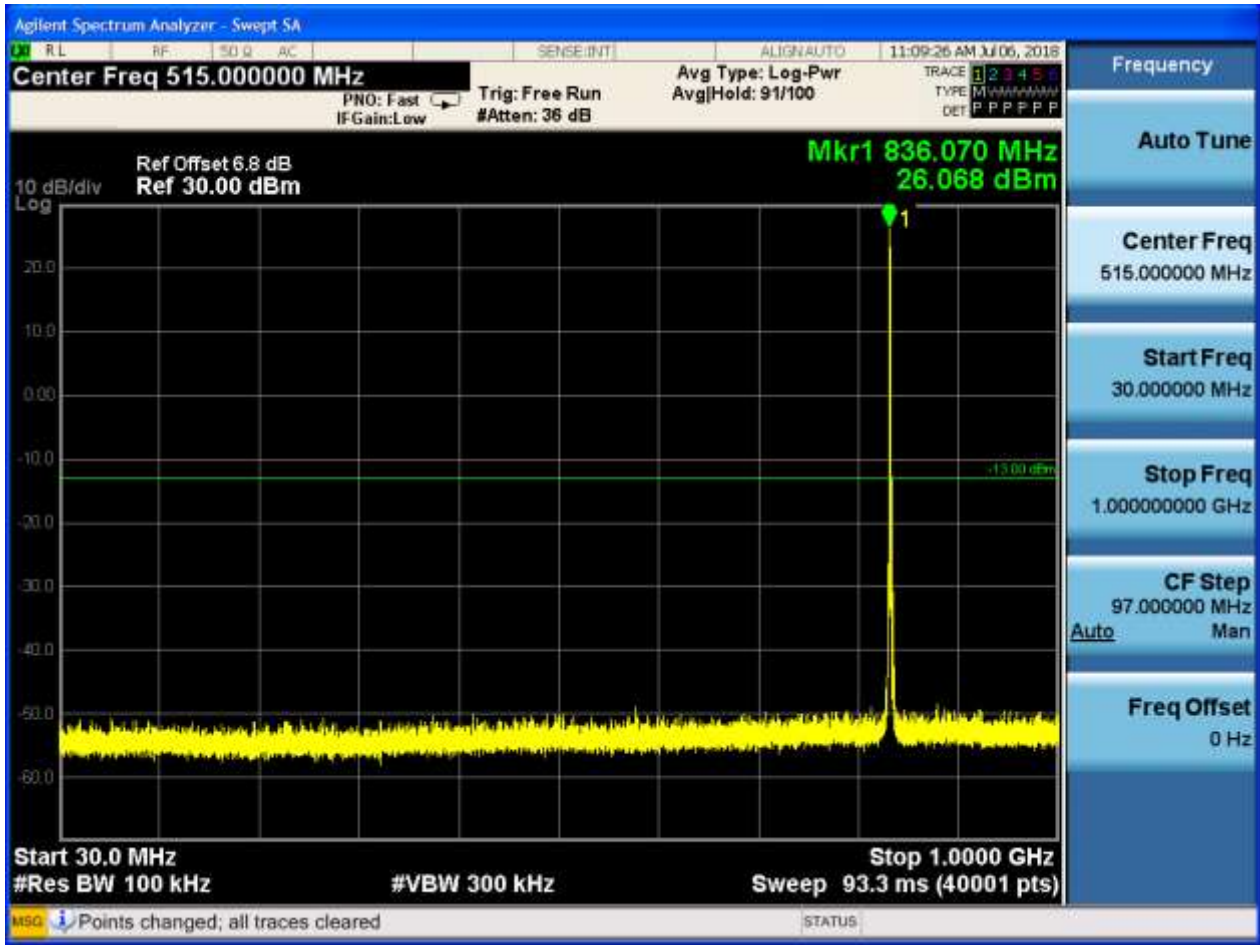


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0







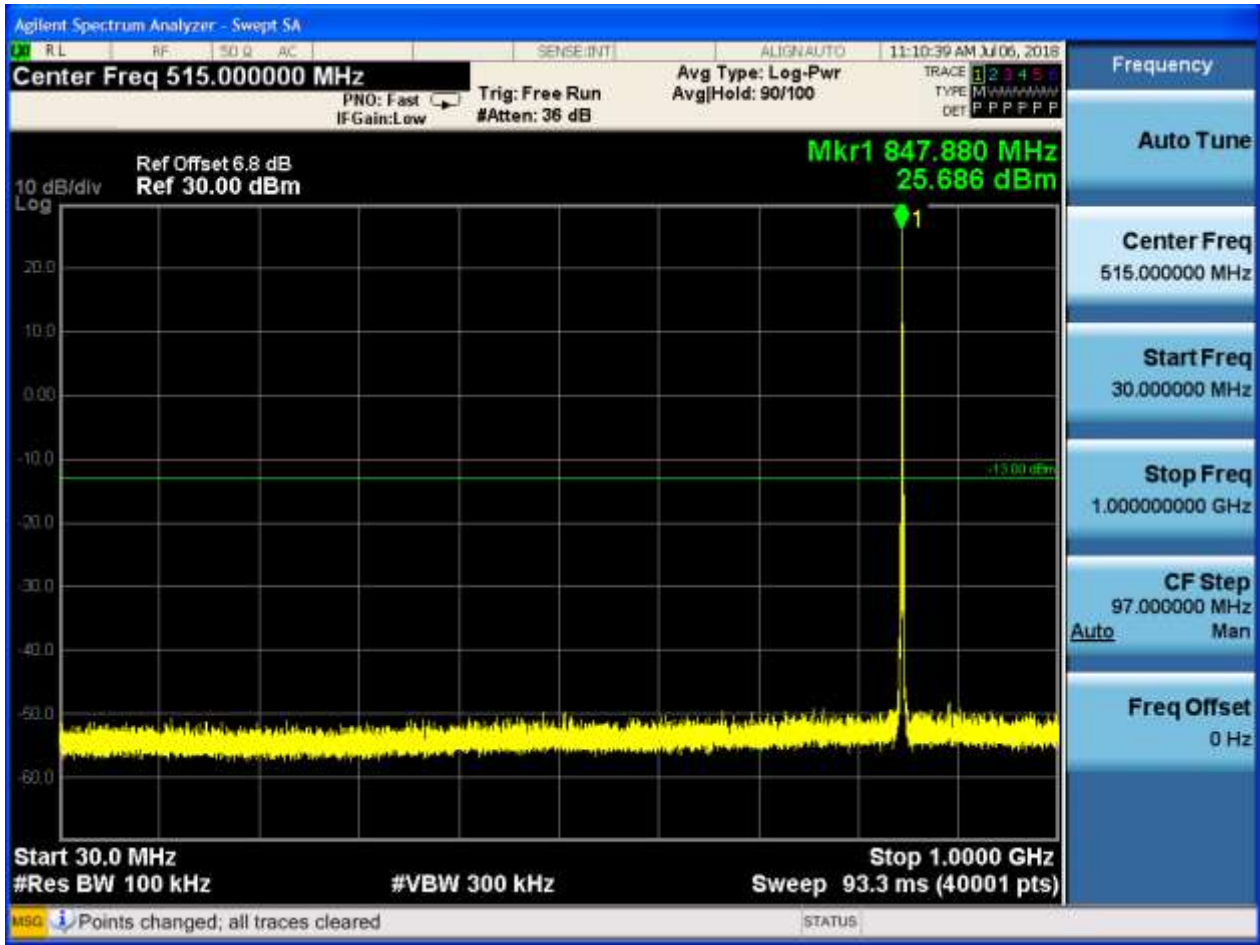


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0











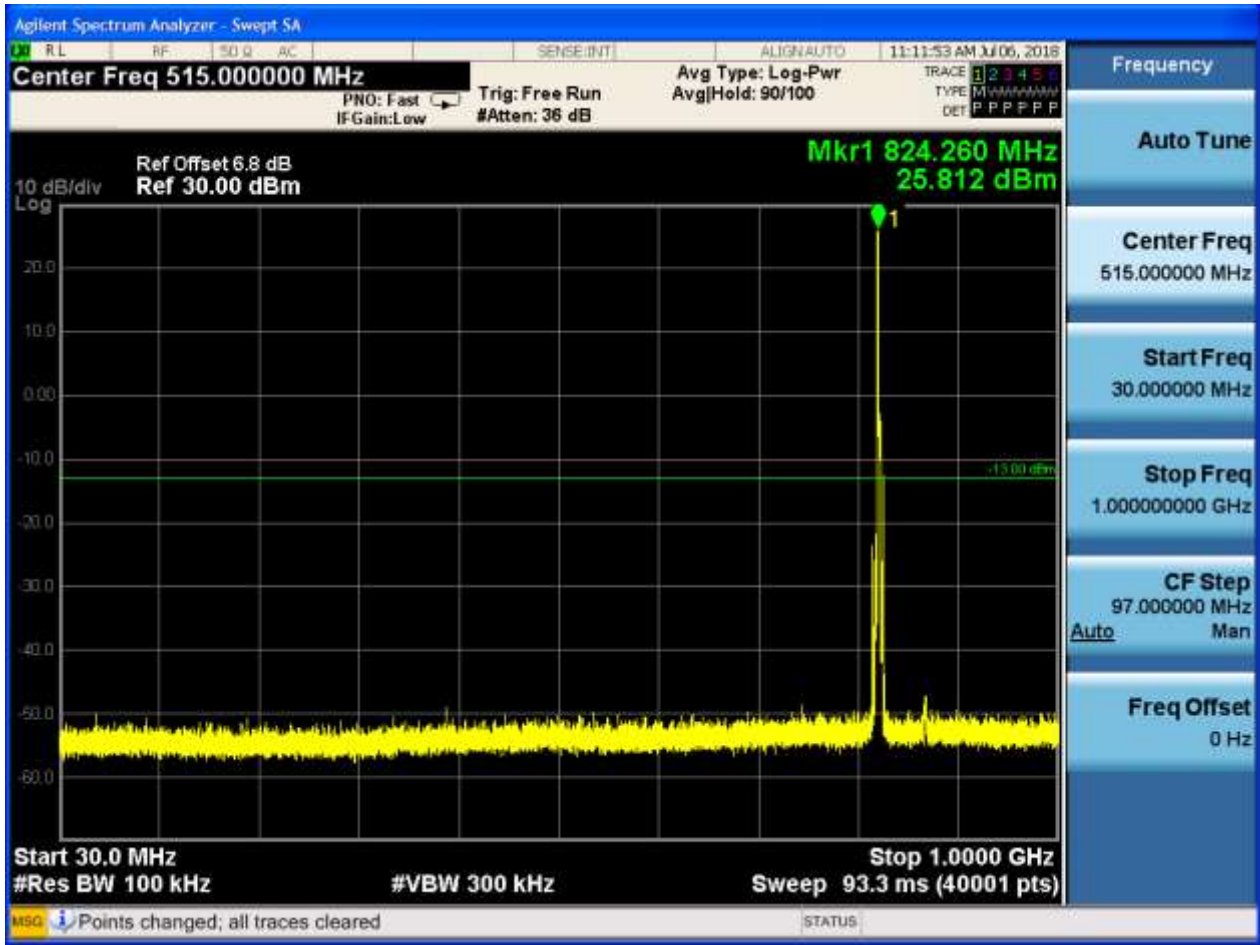
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0







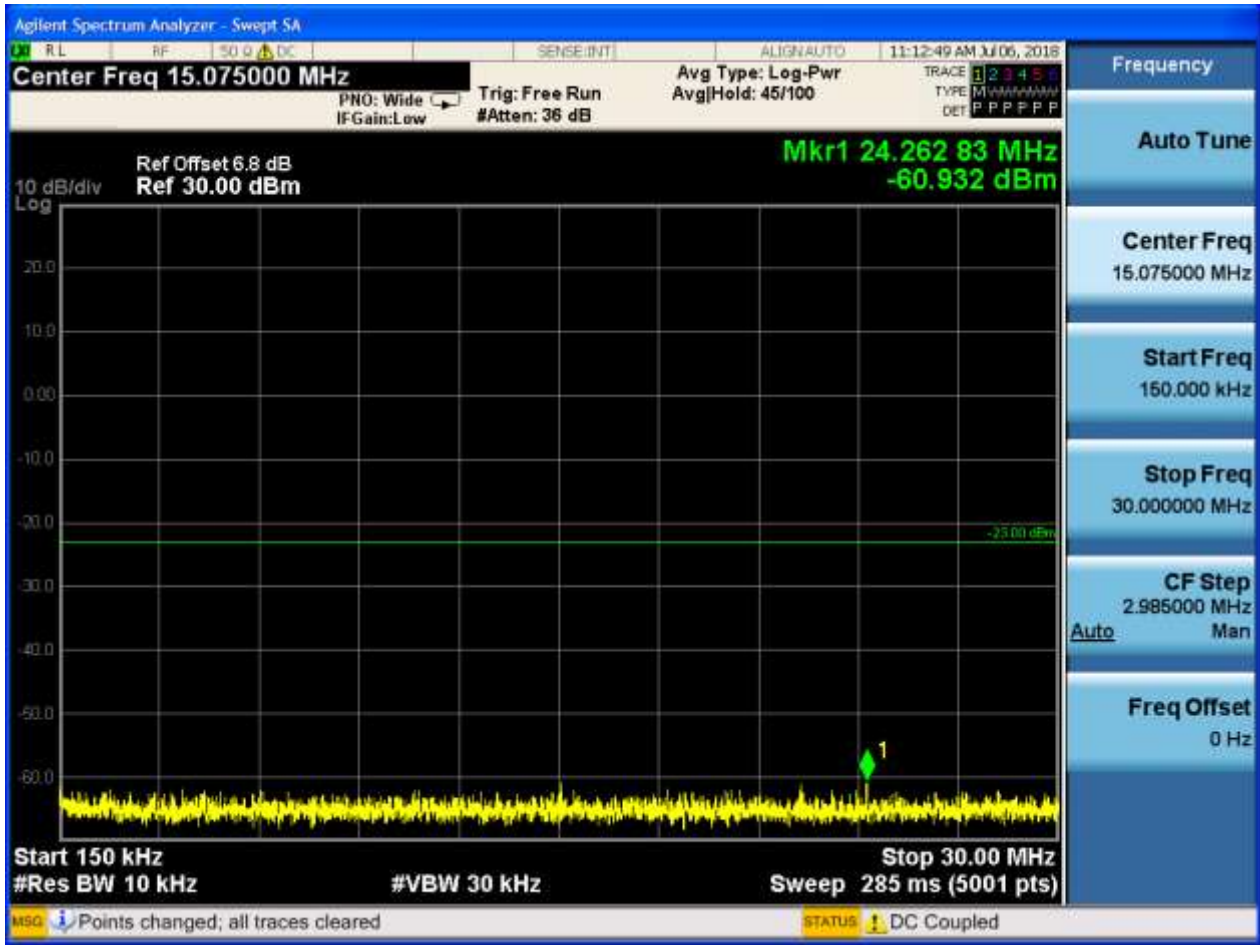


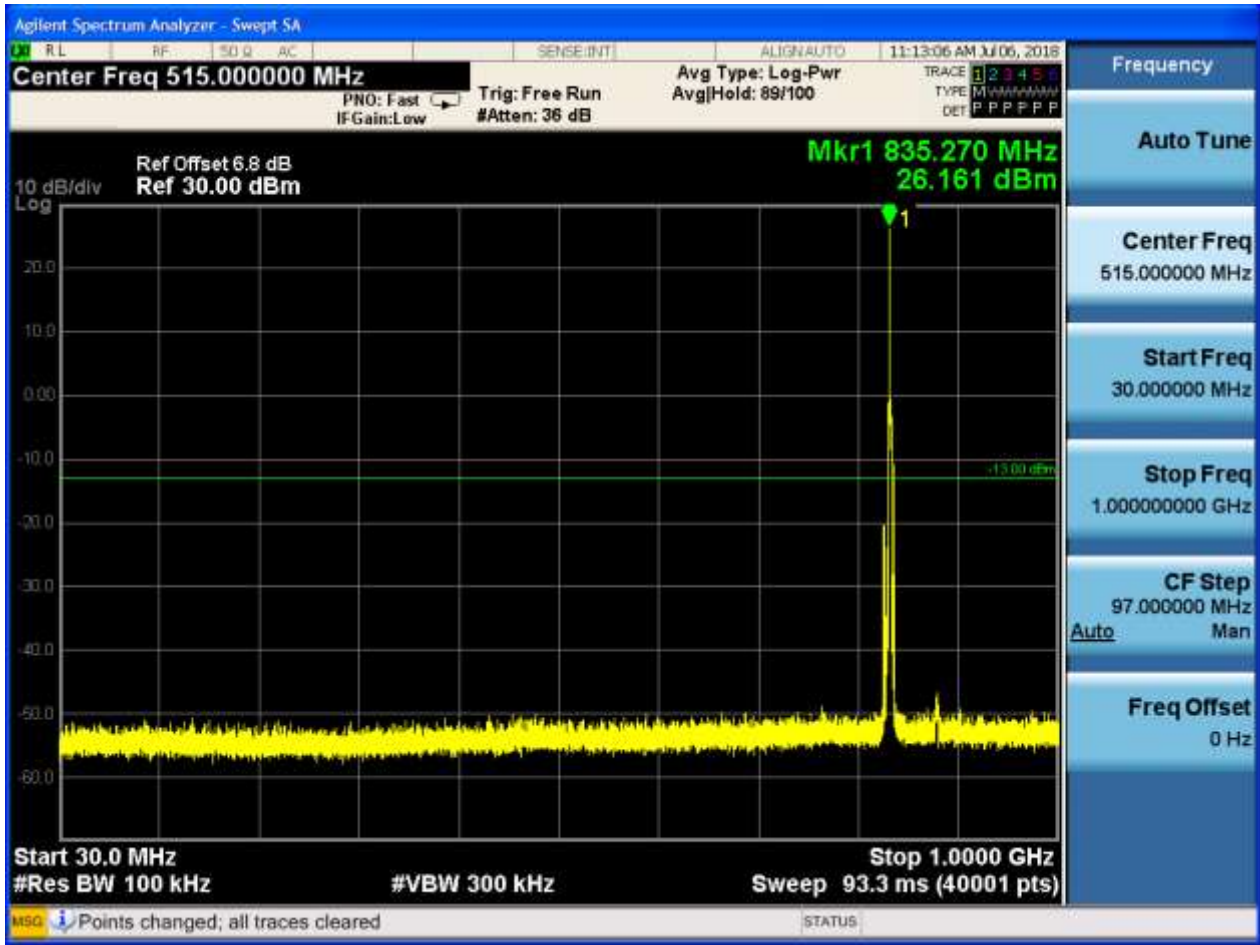


6.1.1.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0



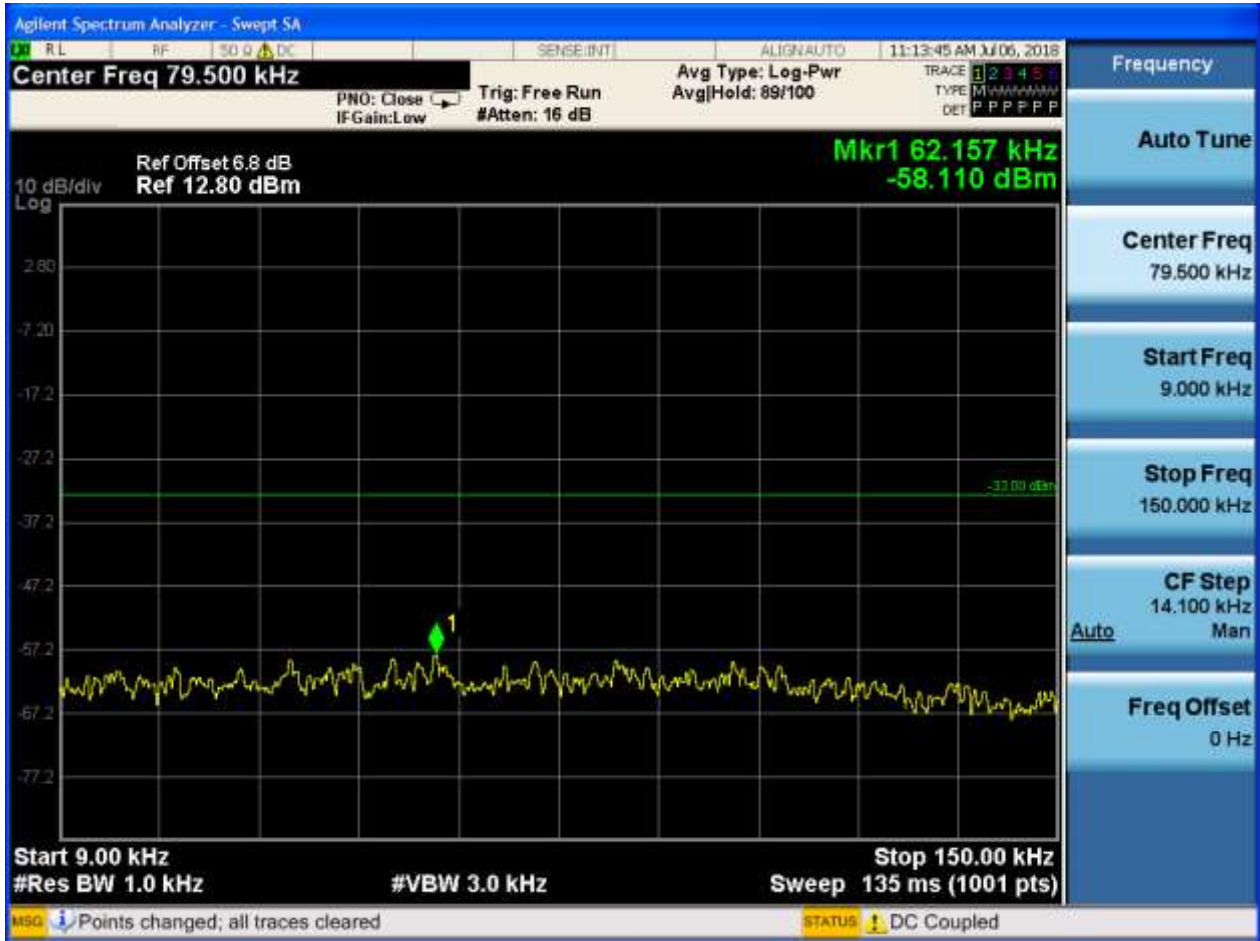




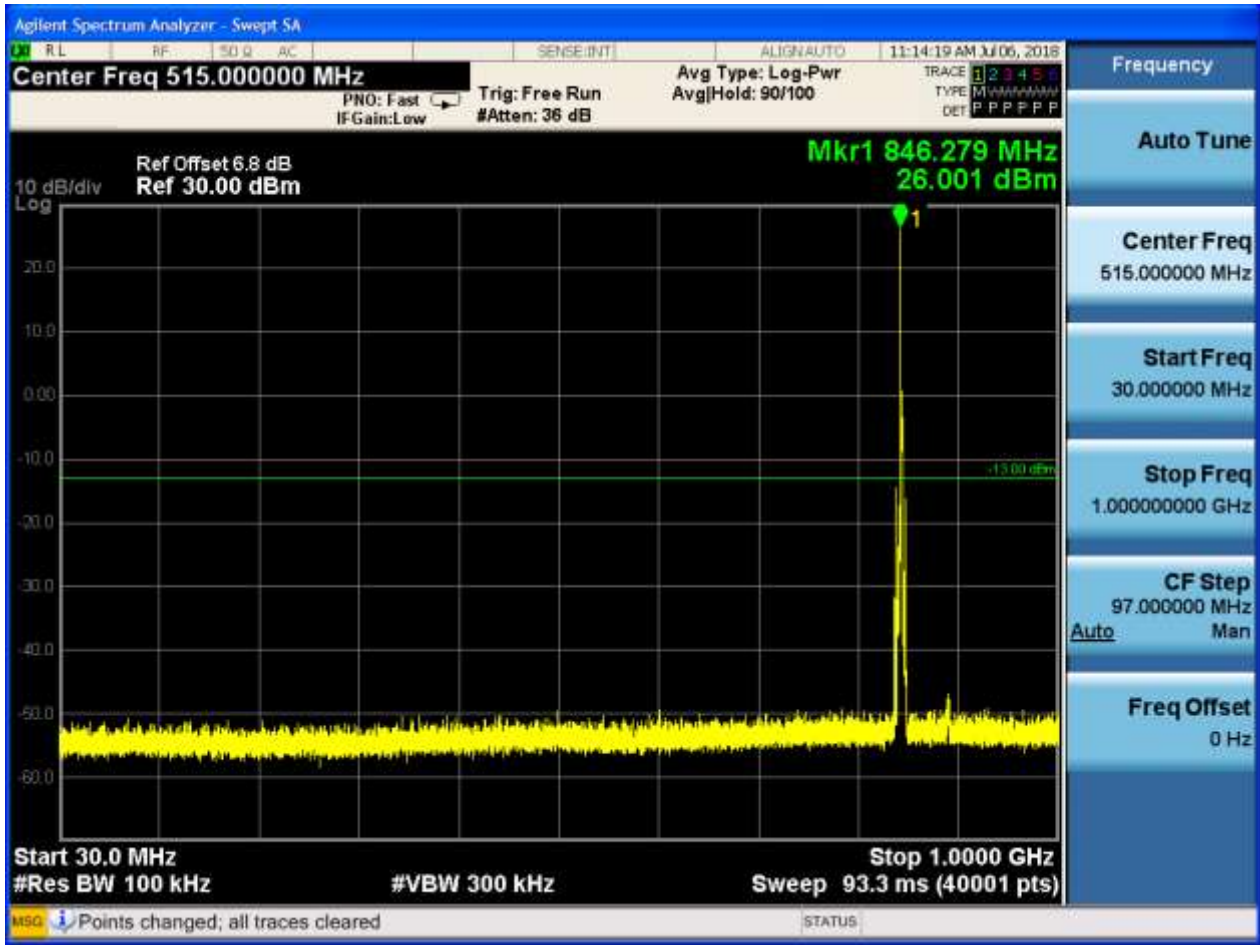


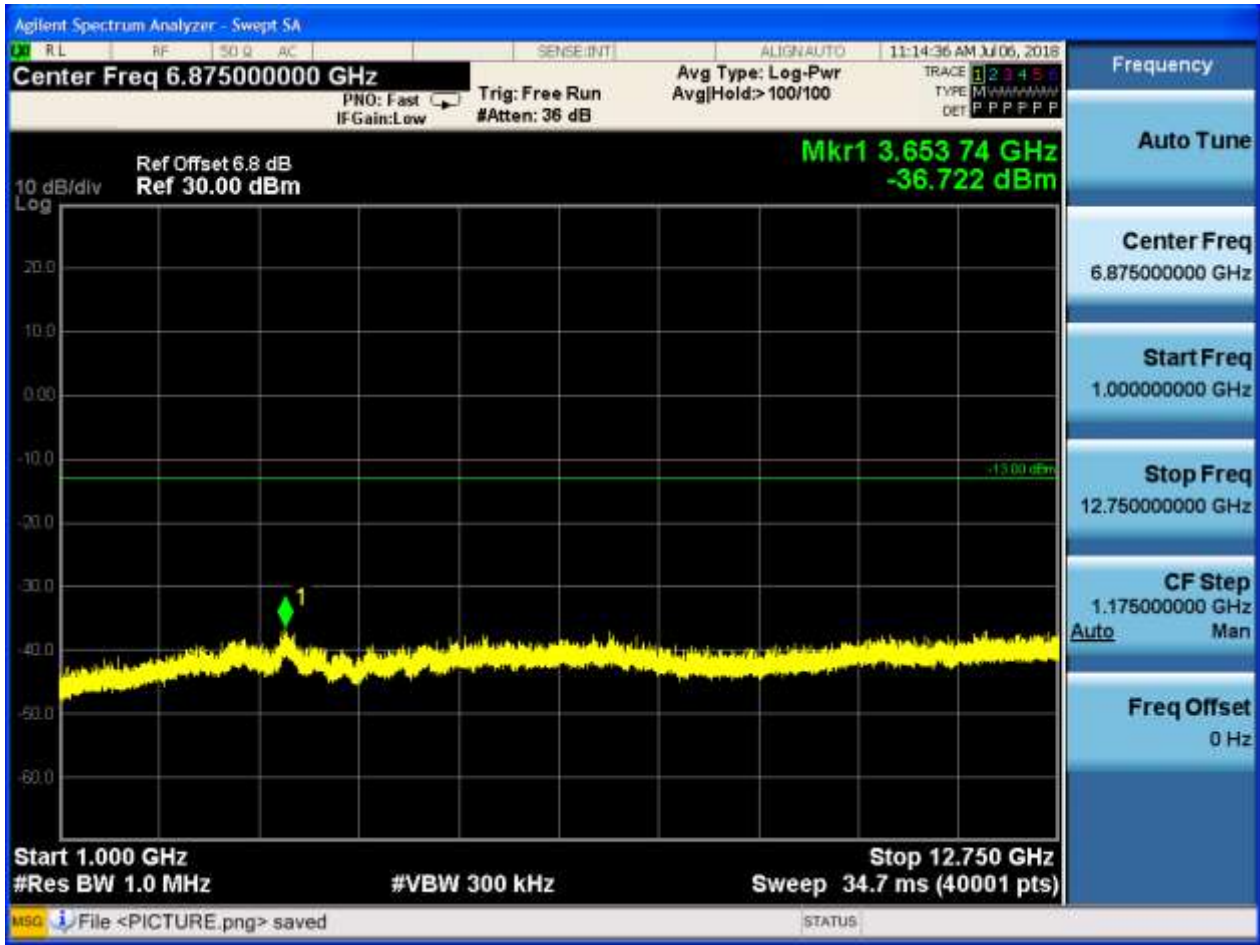
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







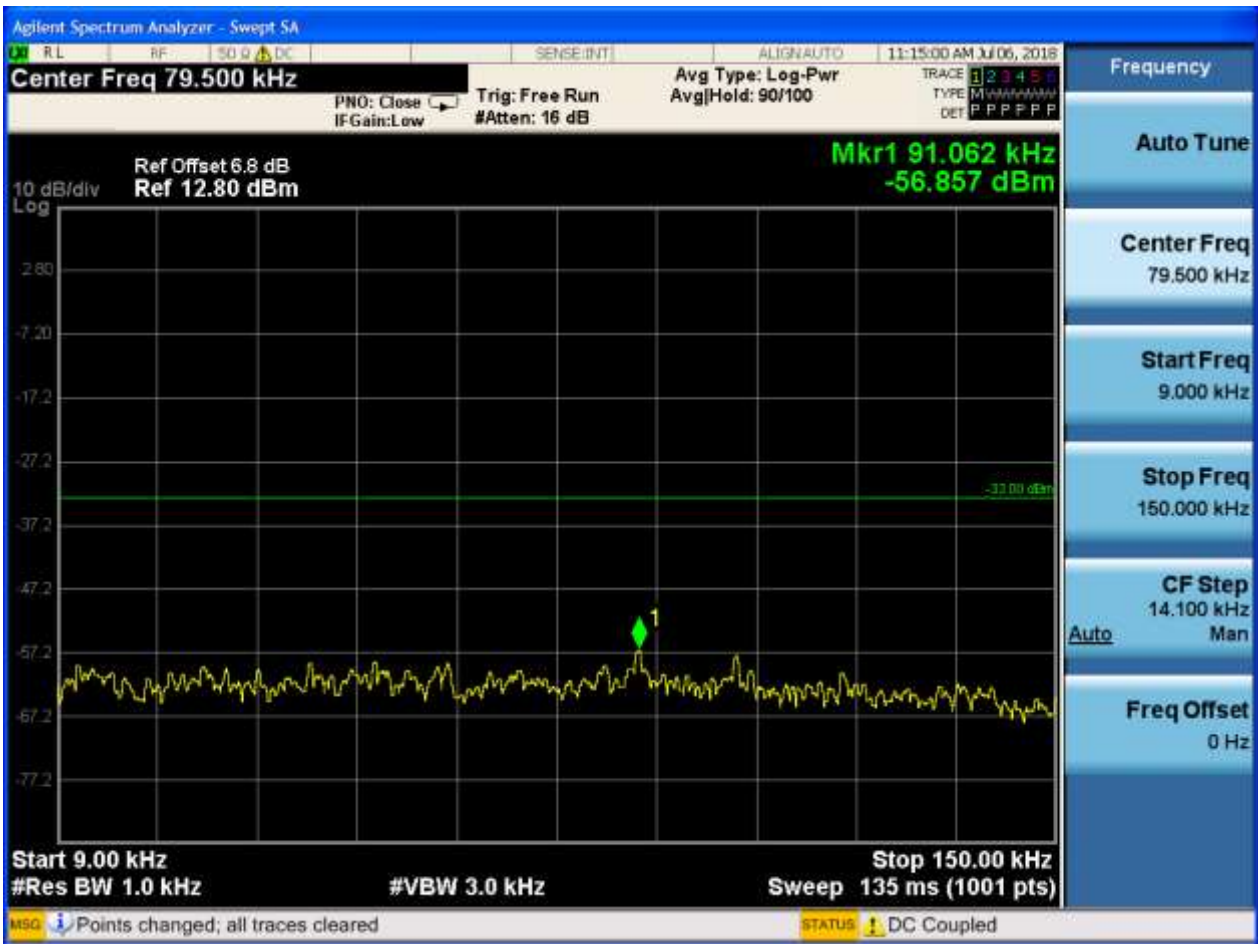




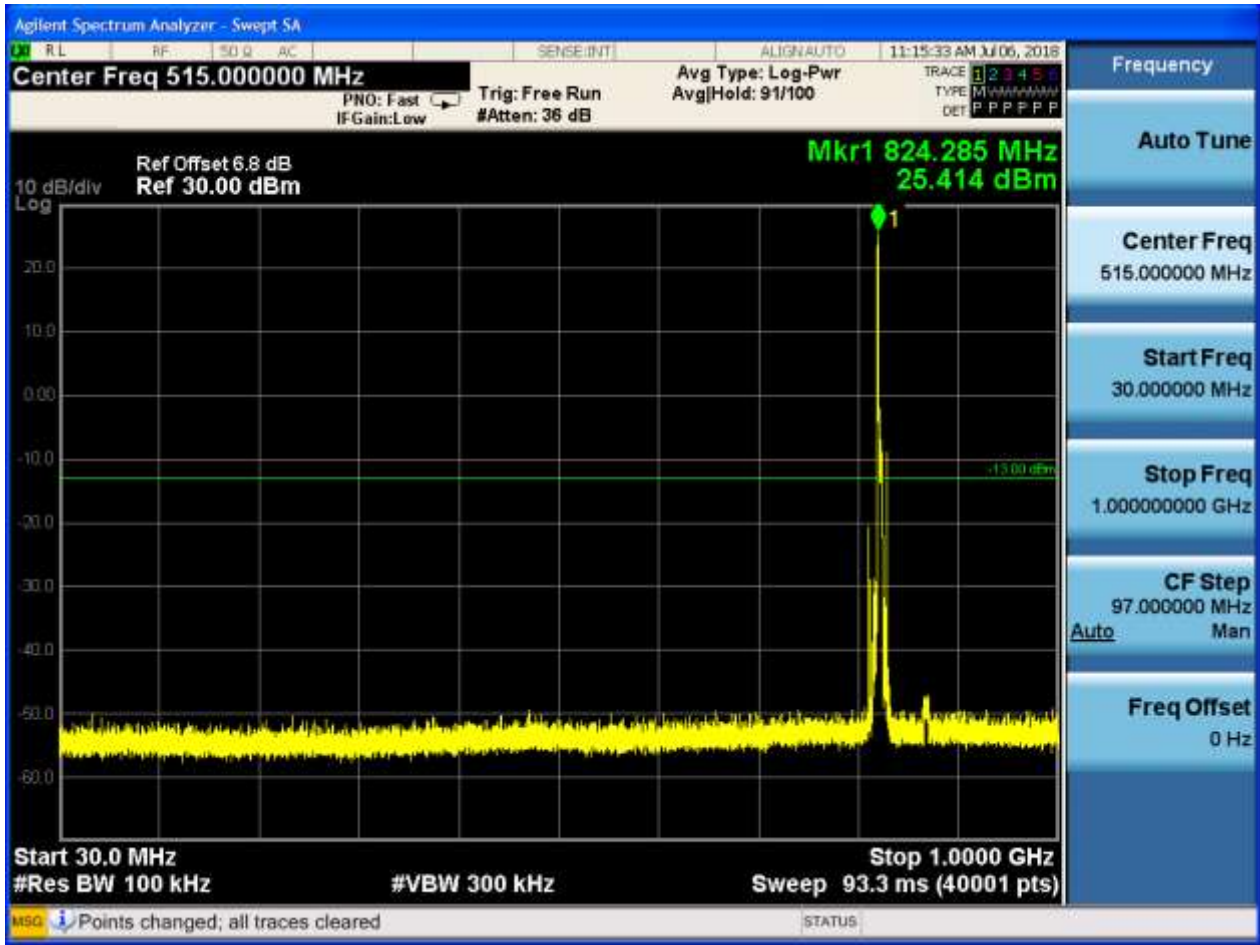
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



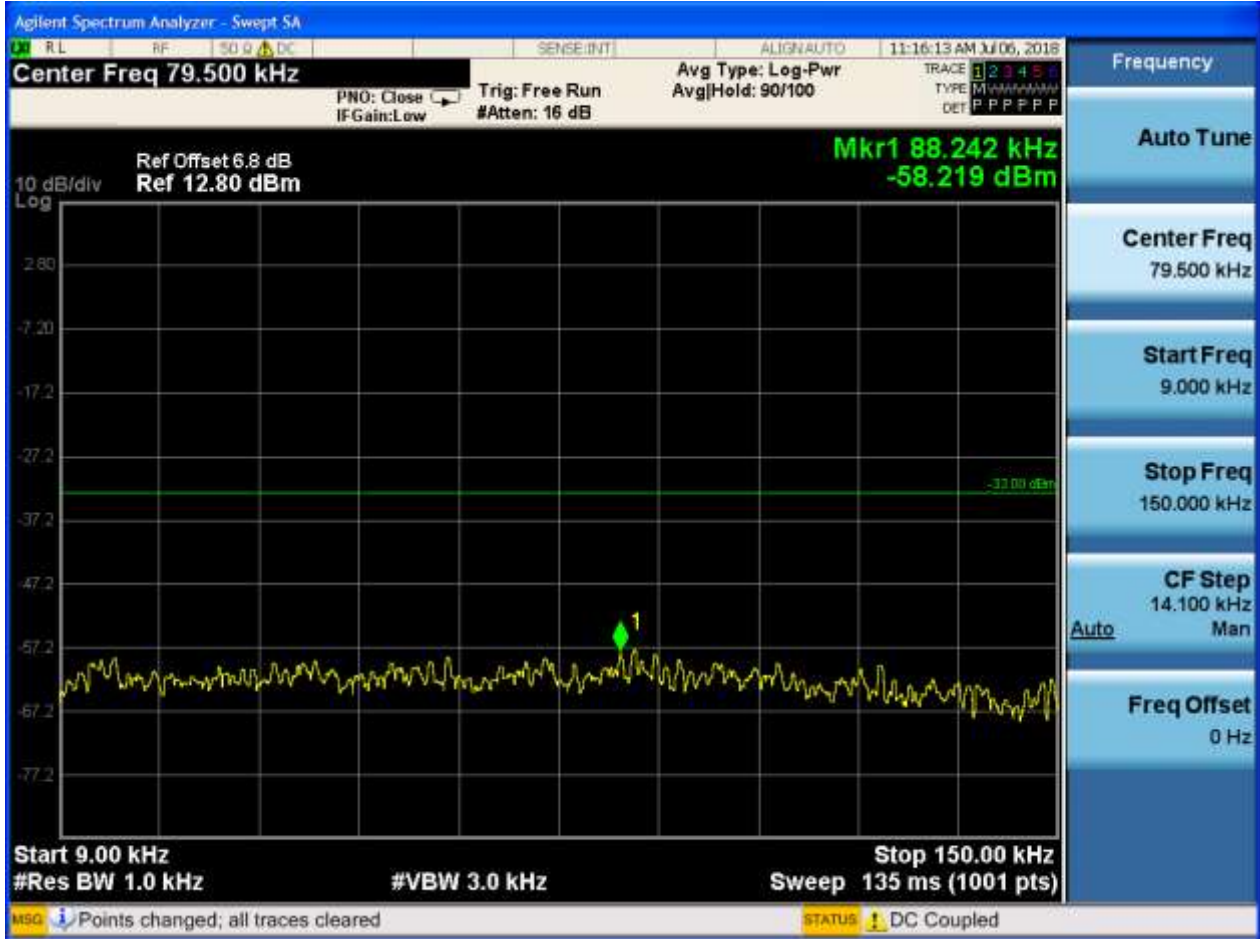




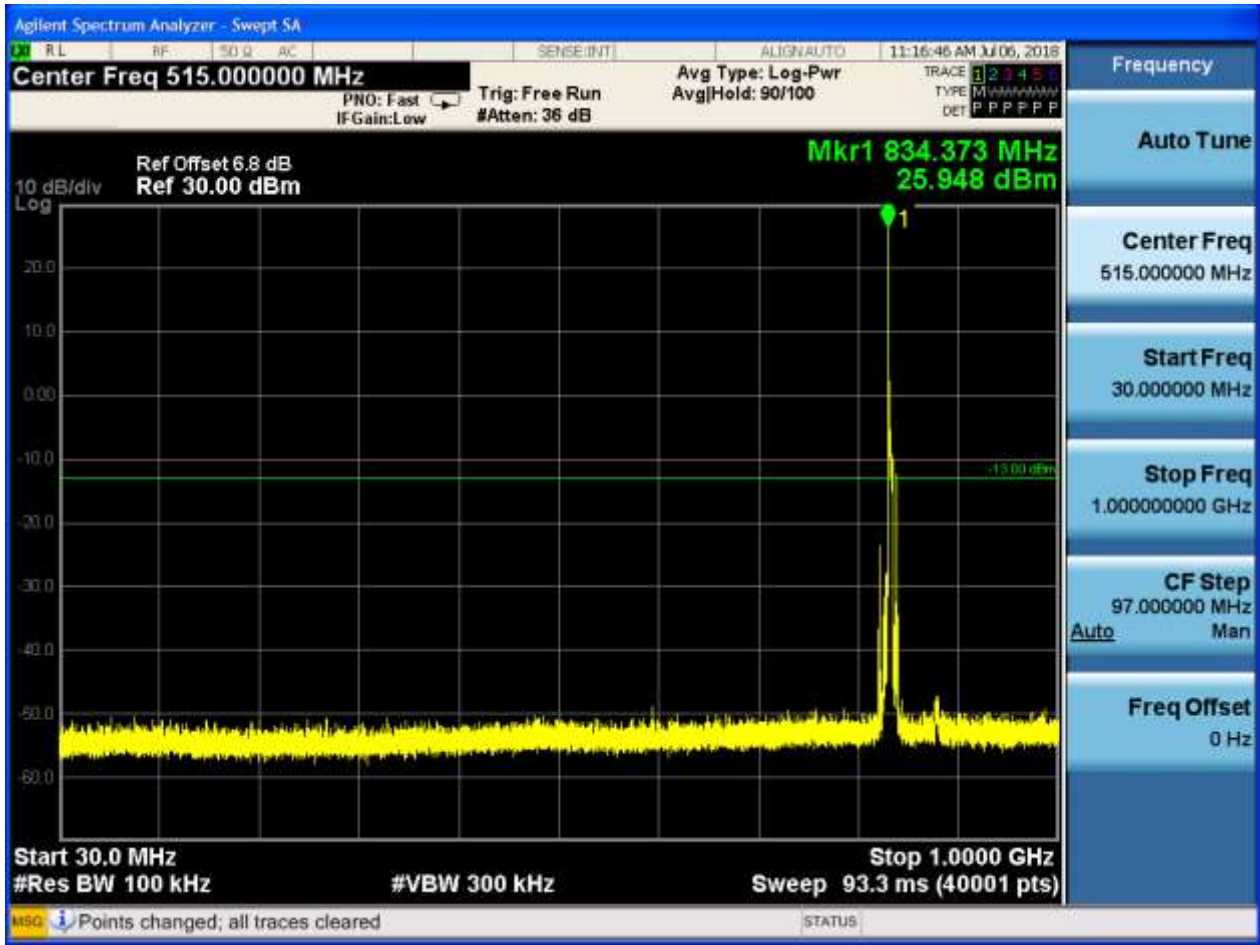


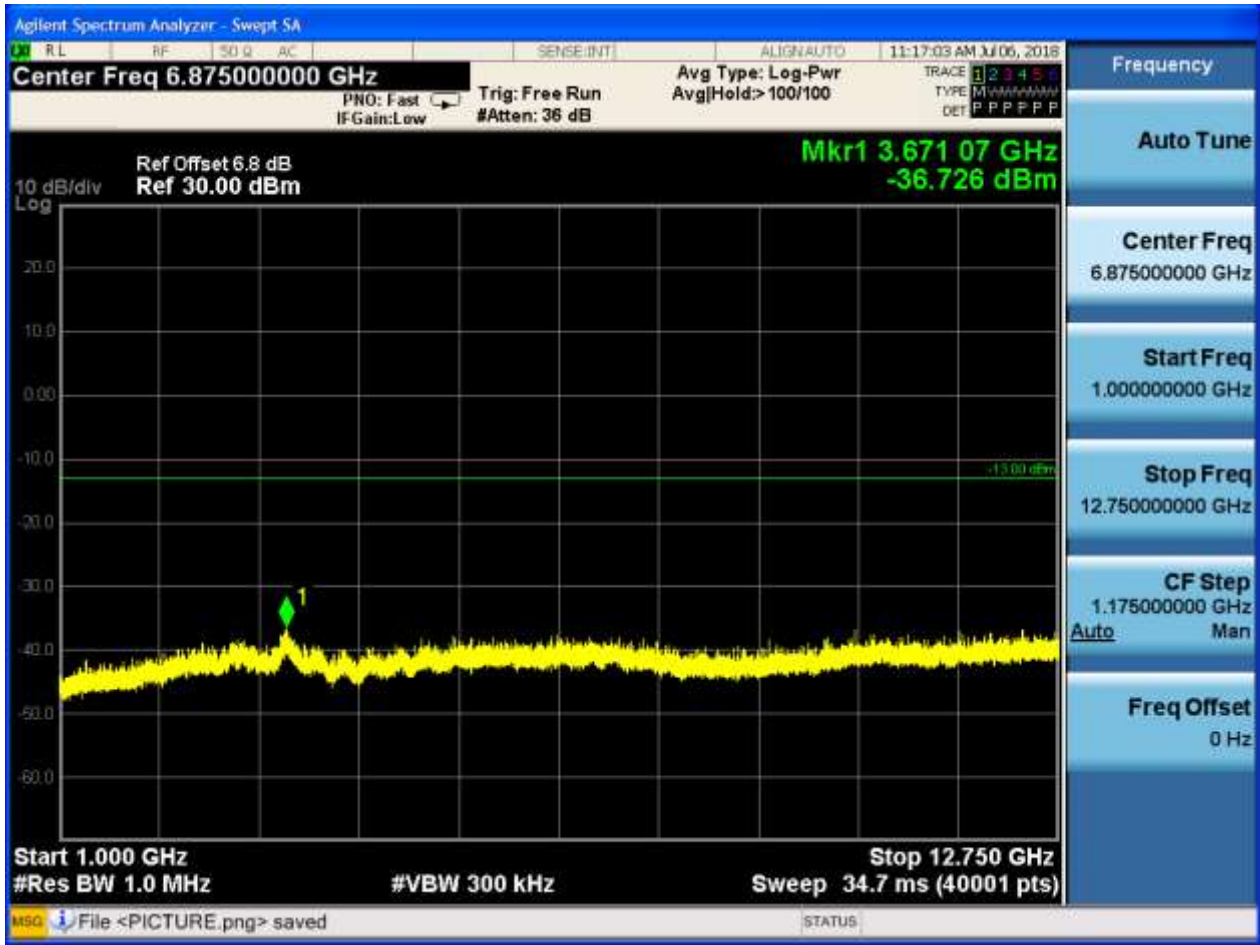
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0









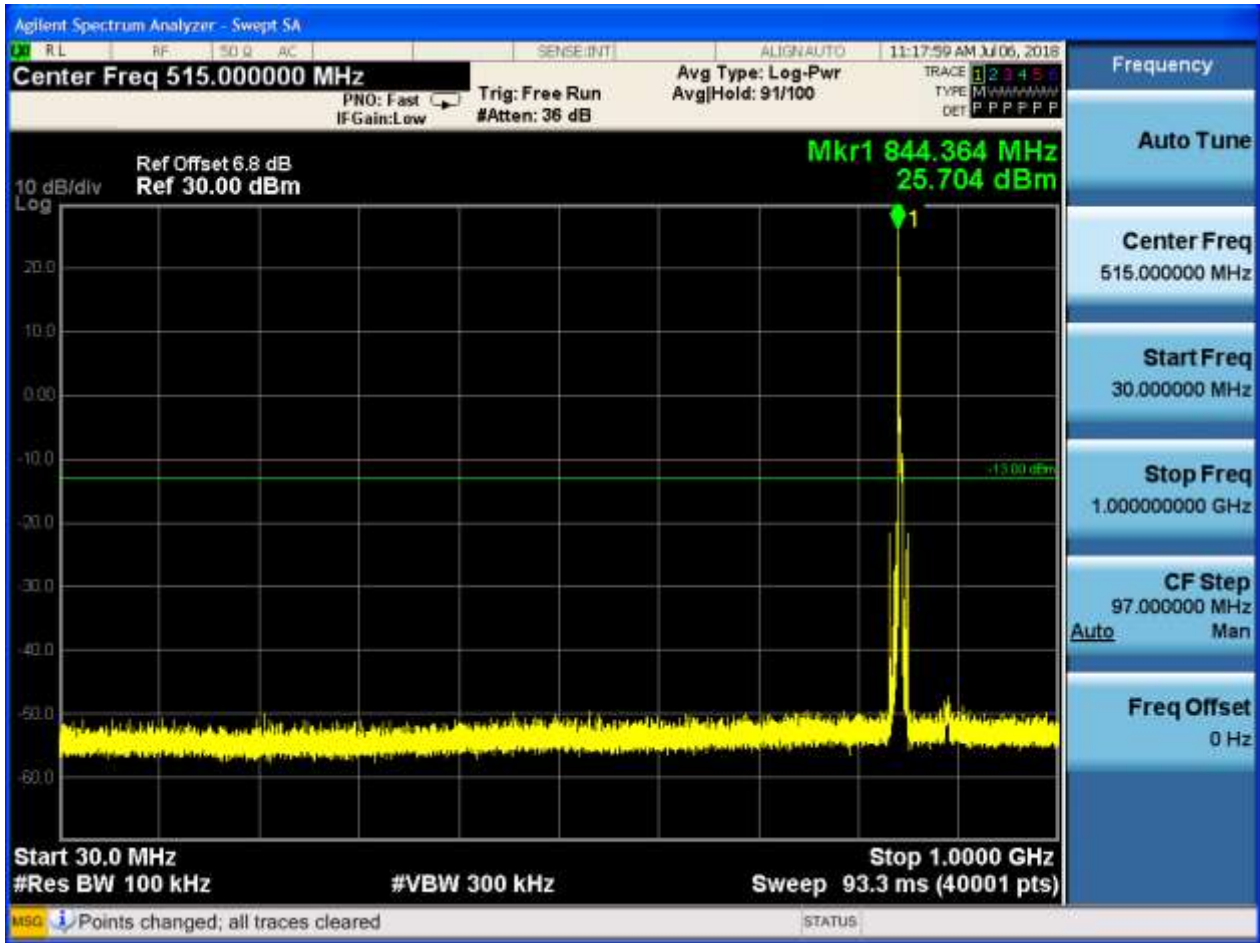


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







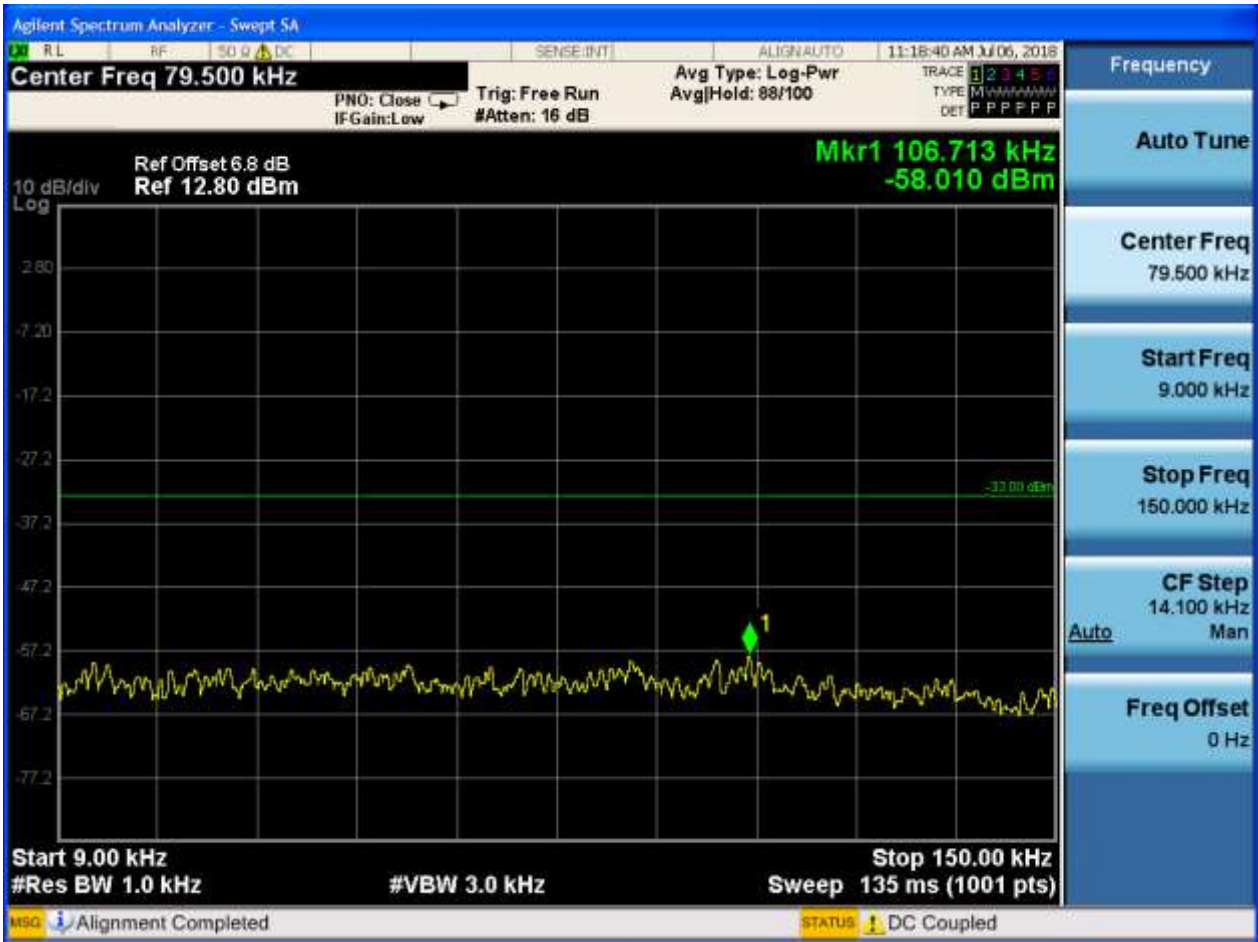




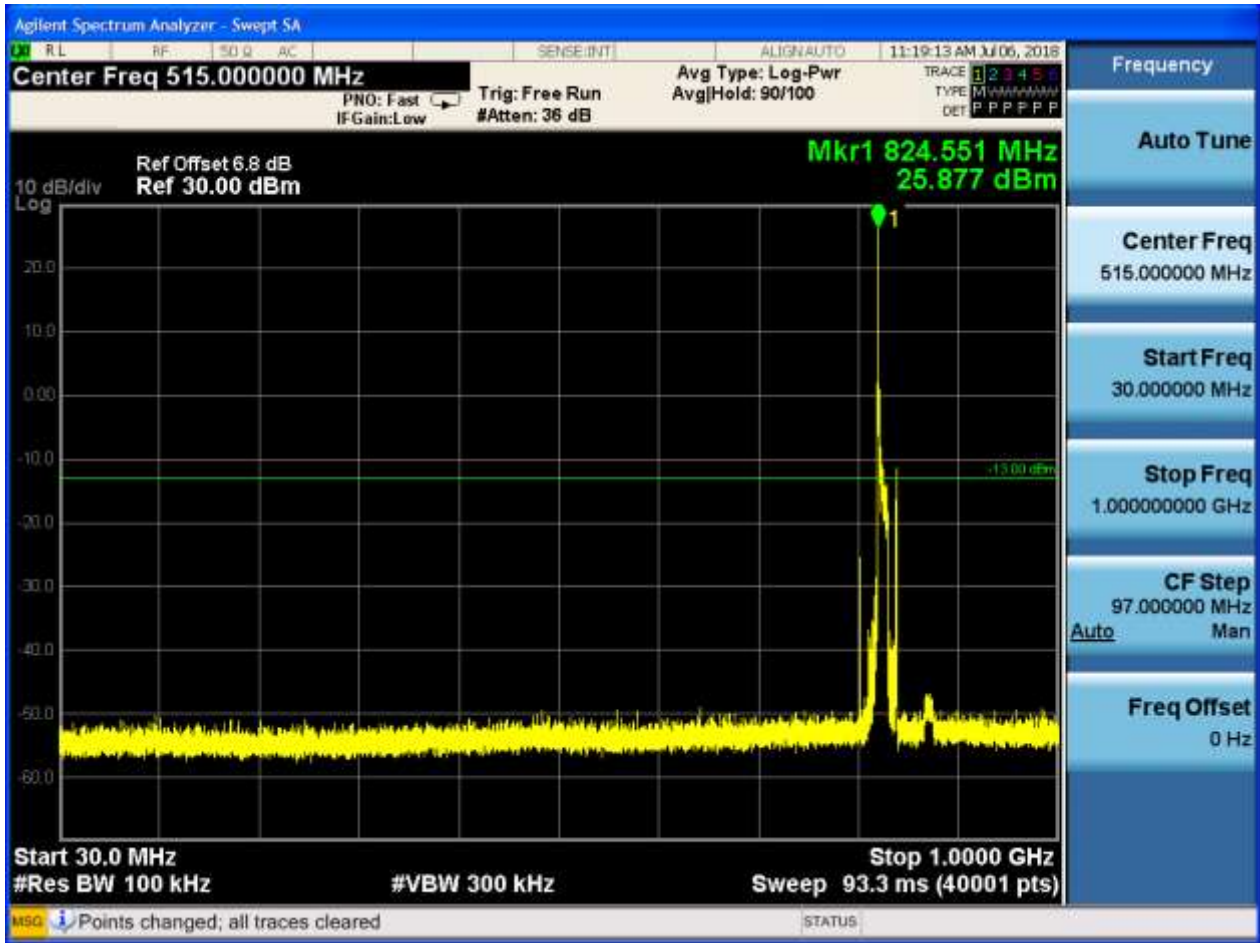
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





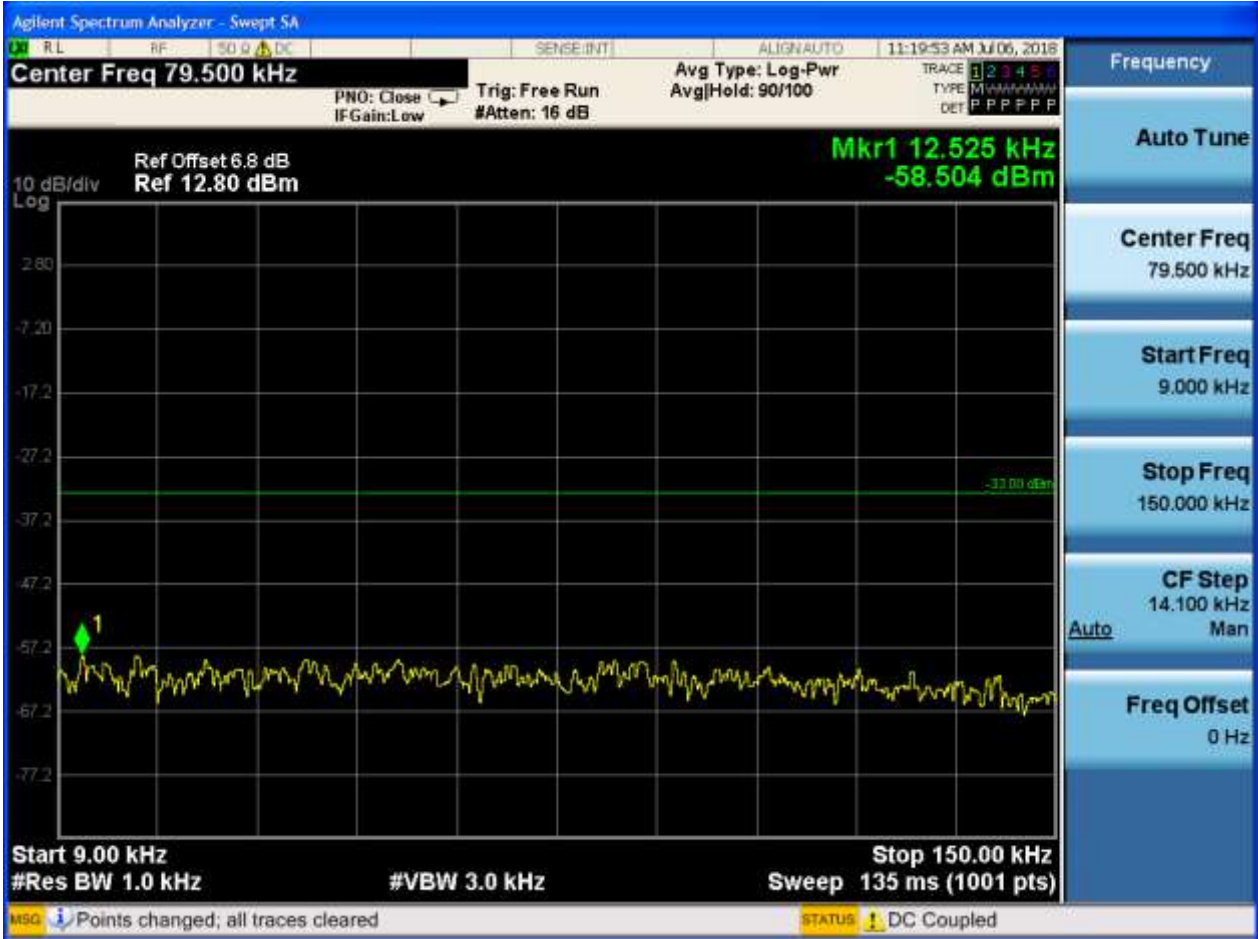




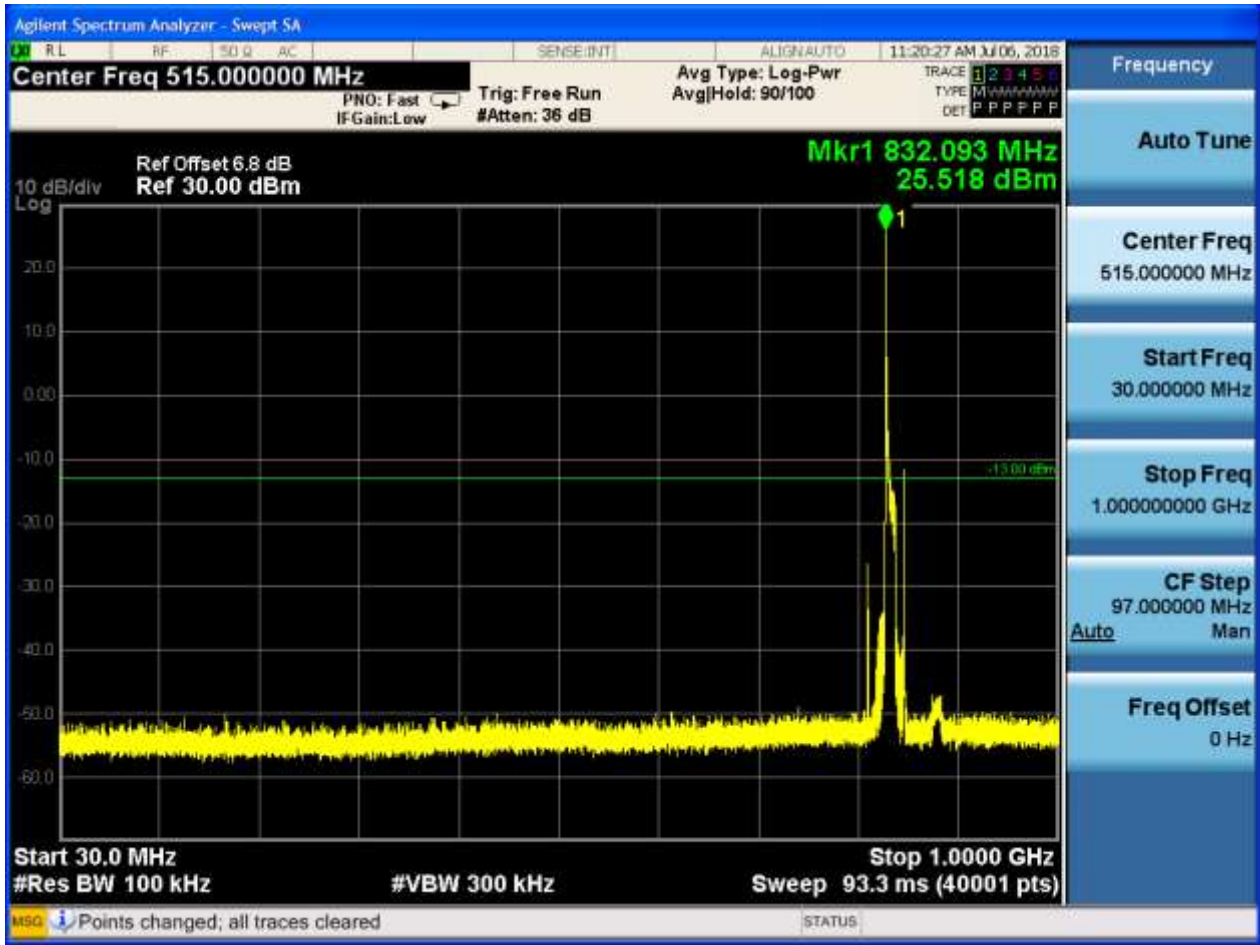


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0









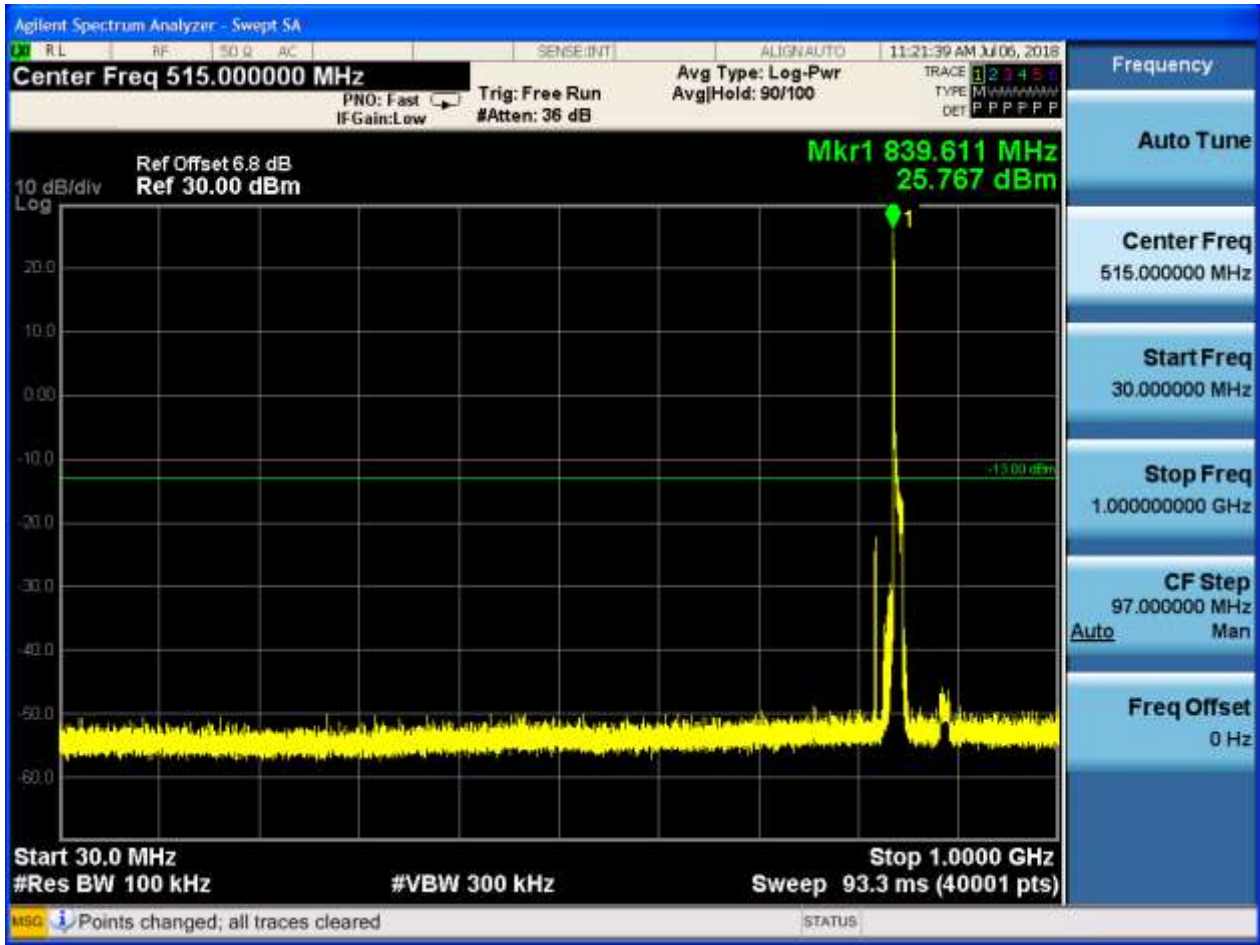


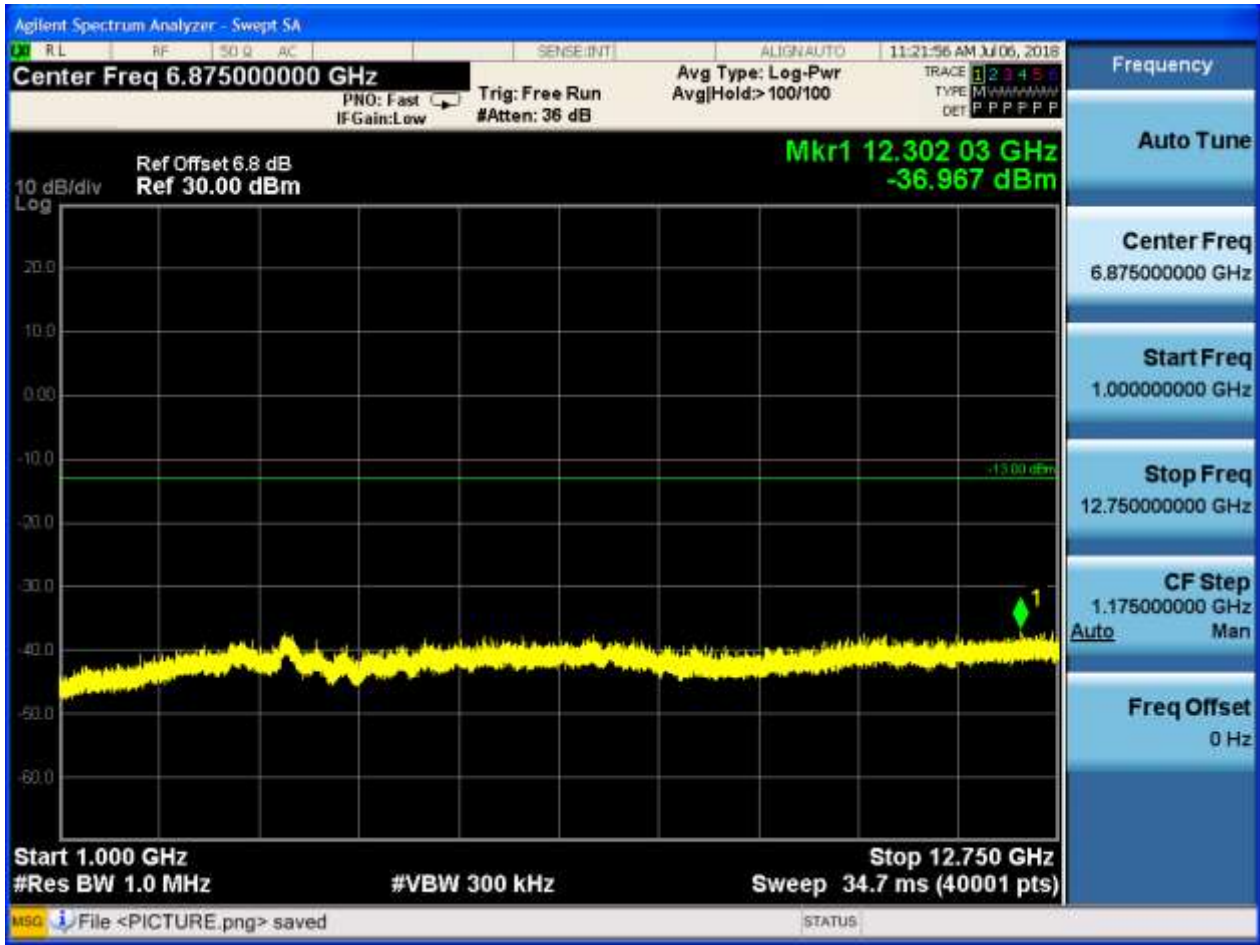
6.1.1.2.4.3 Test Channel = HCH

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, 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

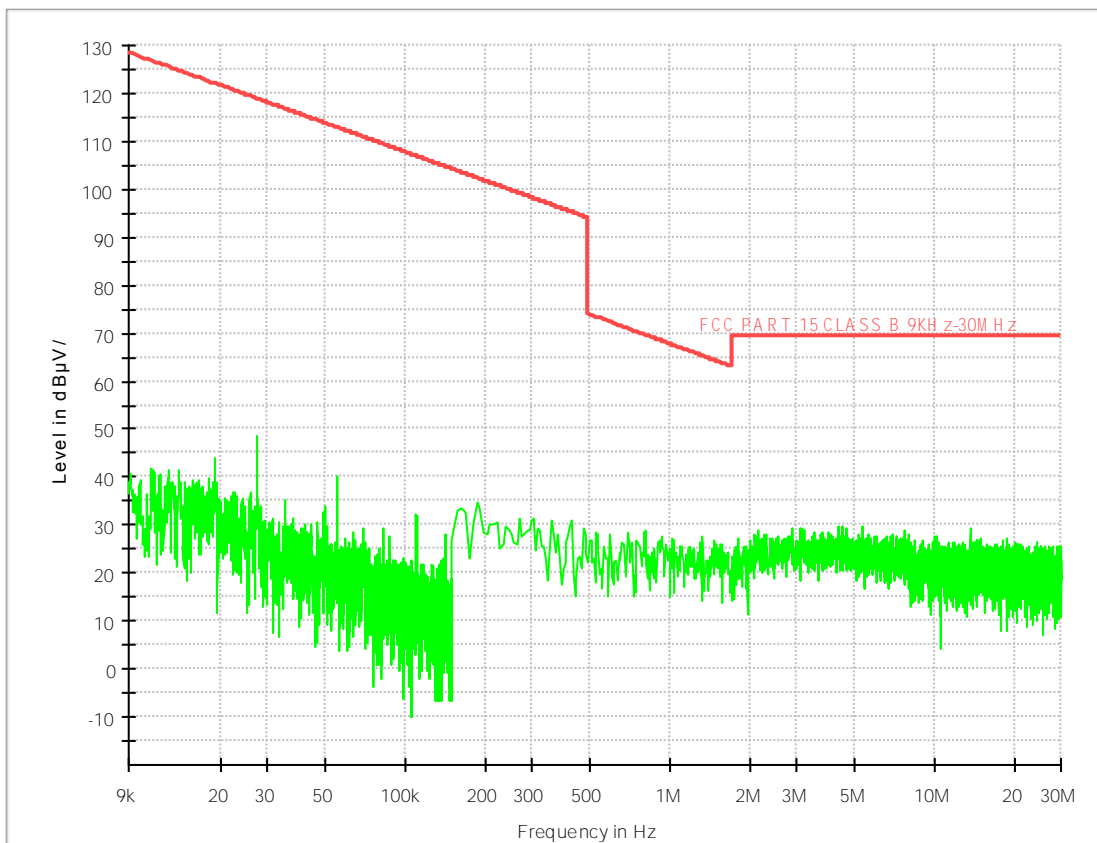


Part I - Test Plots

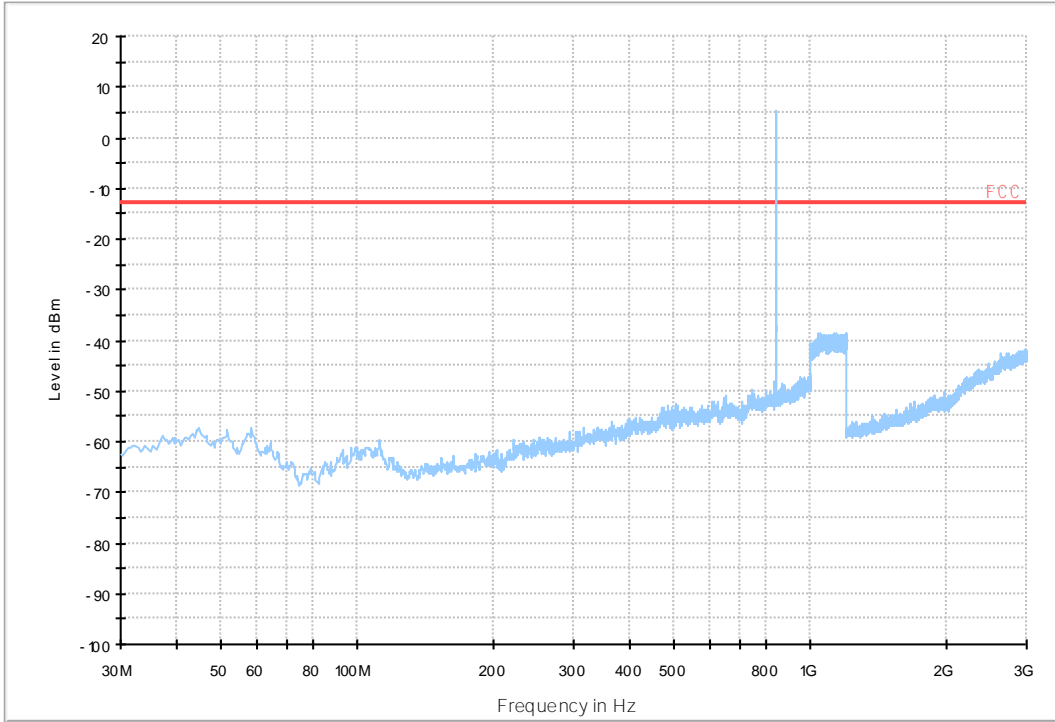
7.1 For LTE

7.1.1 Test Band = BAND5-Ant1

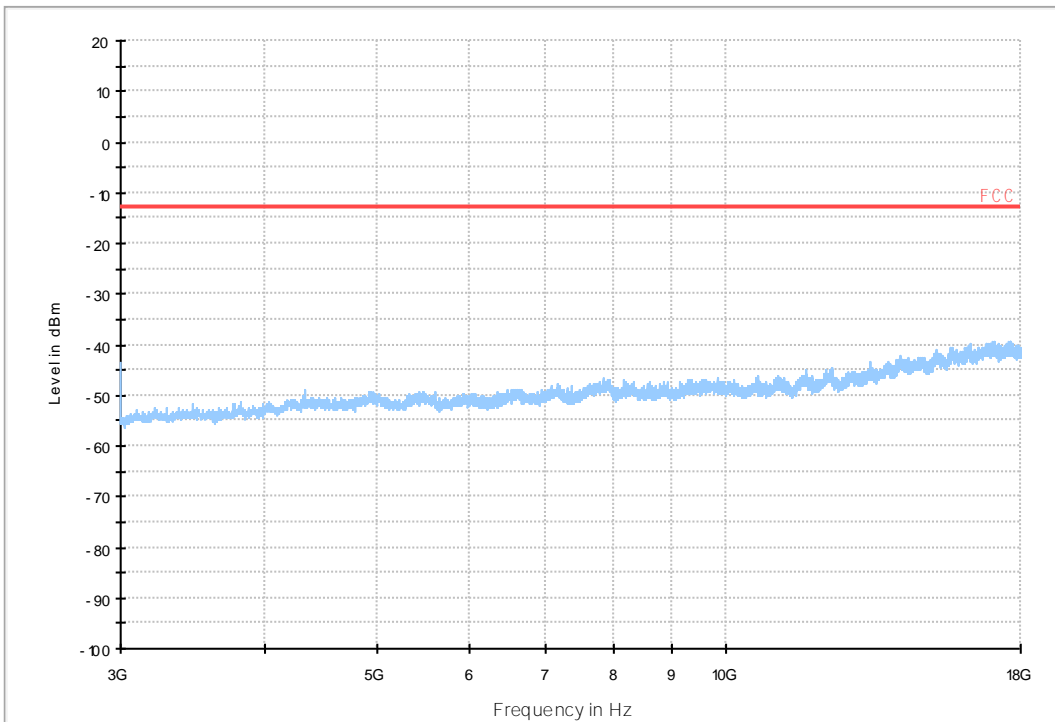
7.1.1.1 Test Bandwidth = 1.4



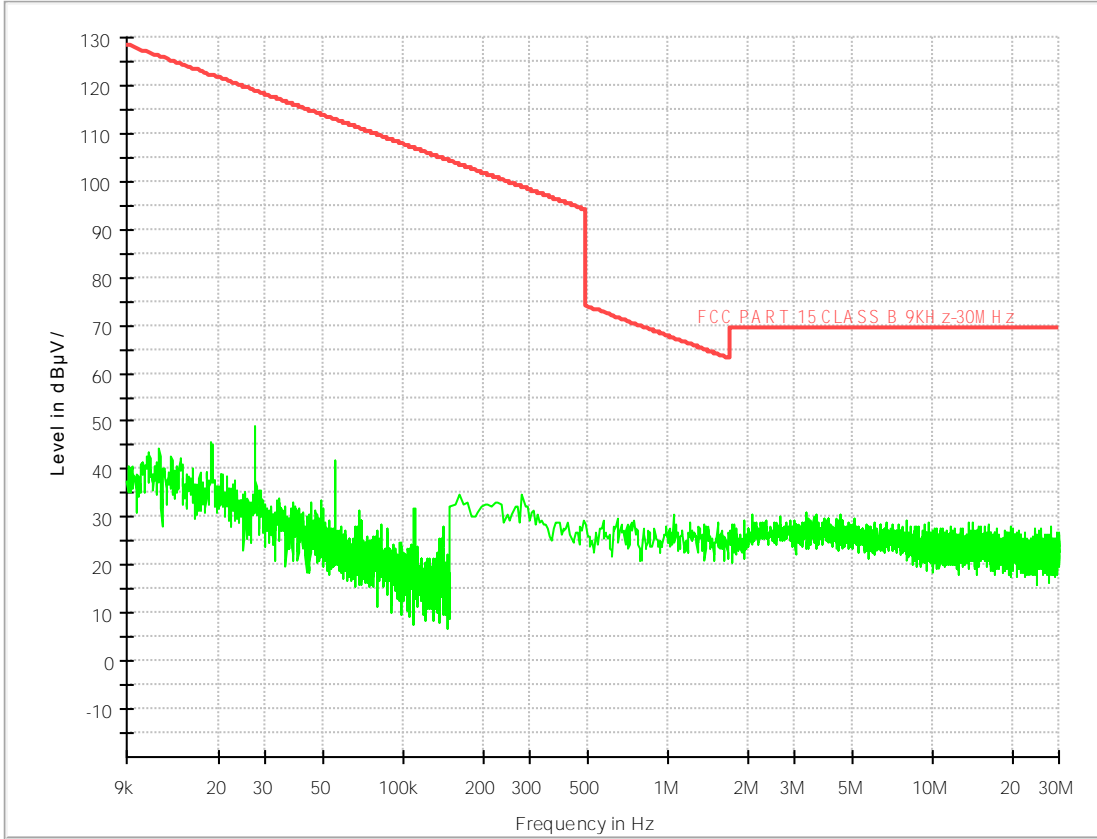
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



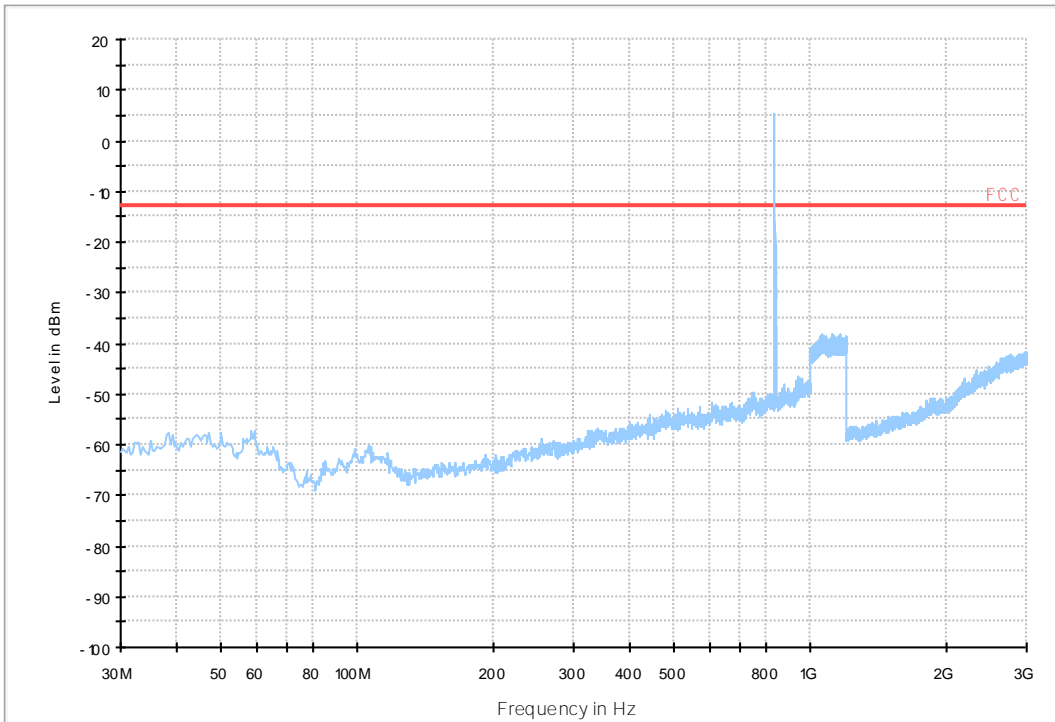
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



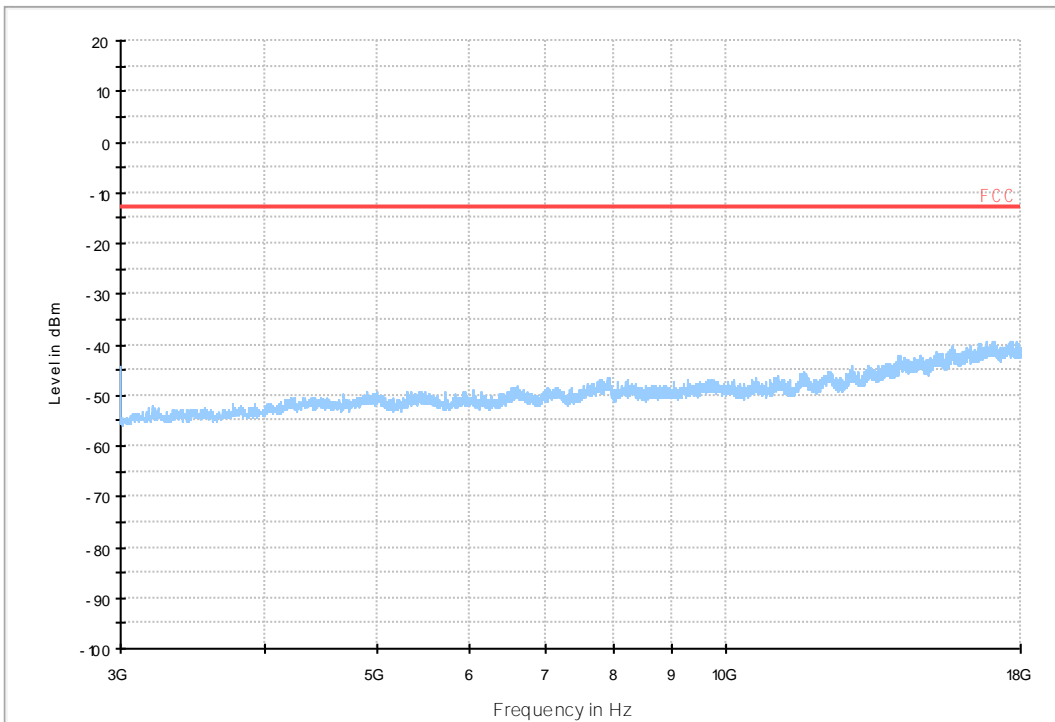
7.1.1.2 Test Bandwidth = 5



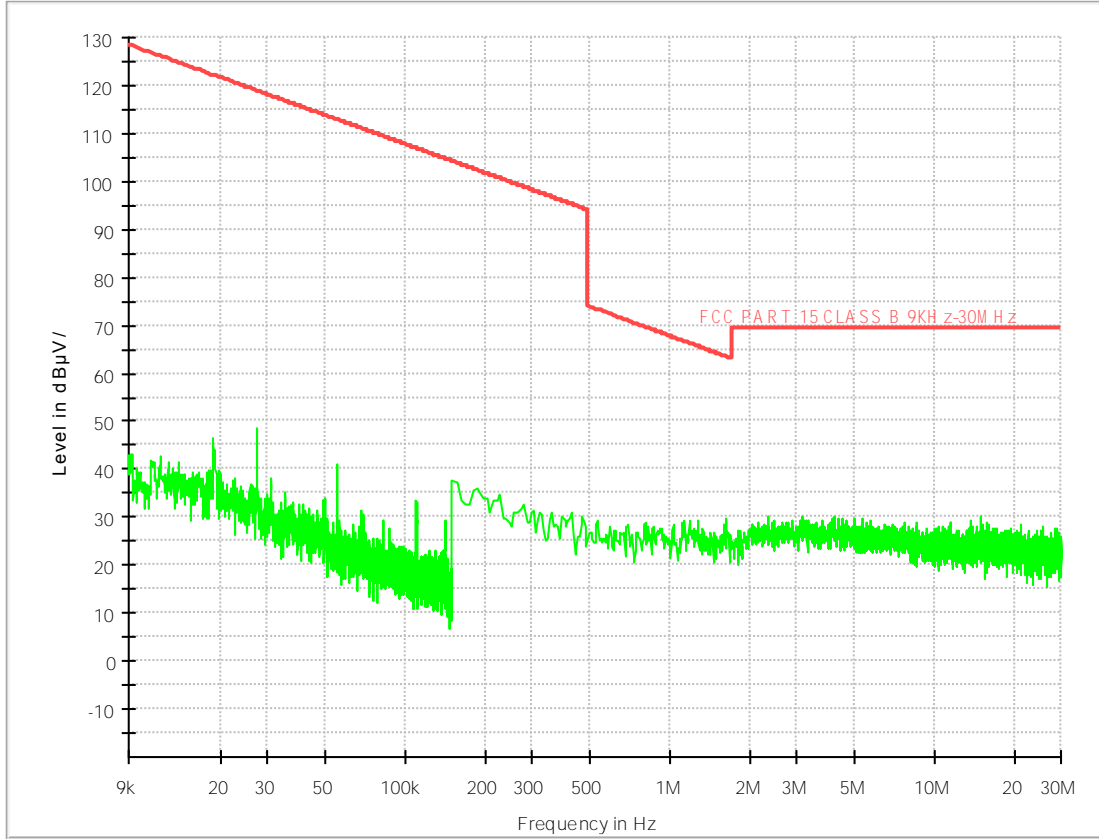
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



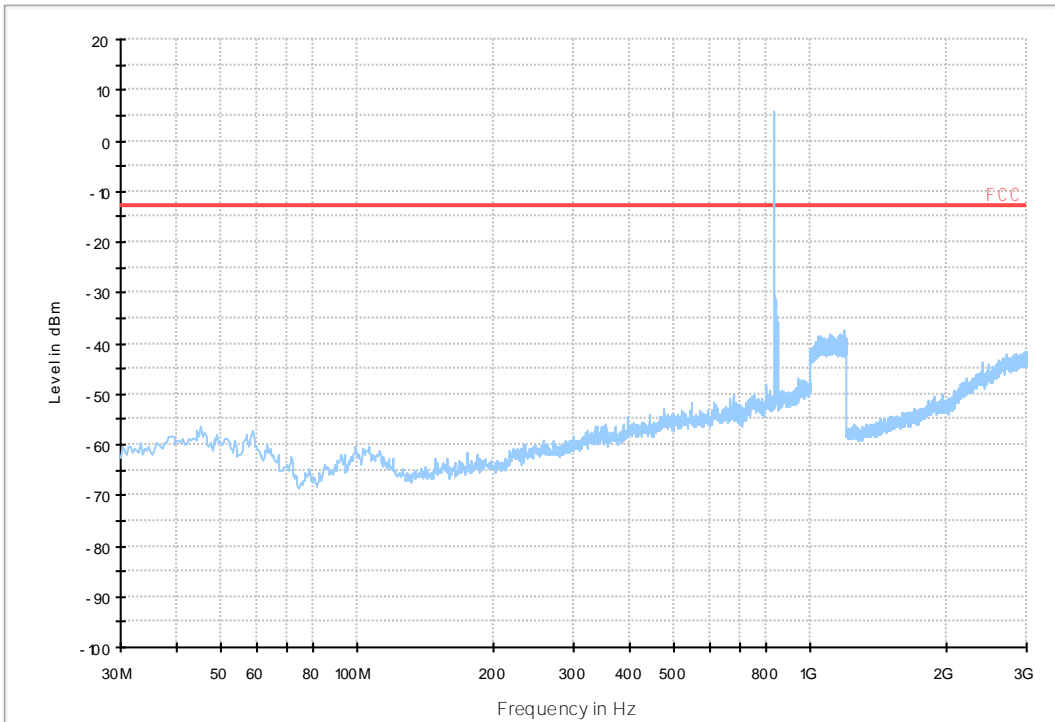
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



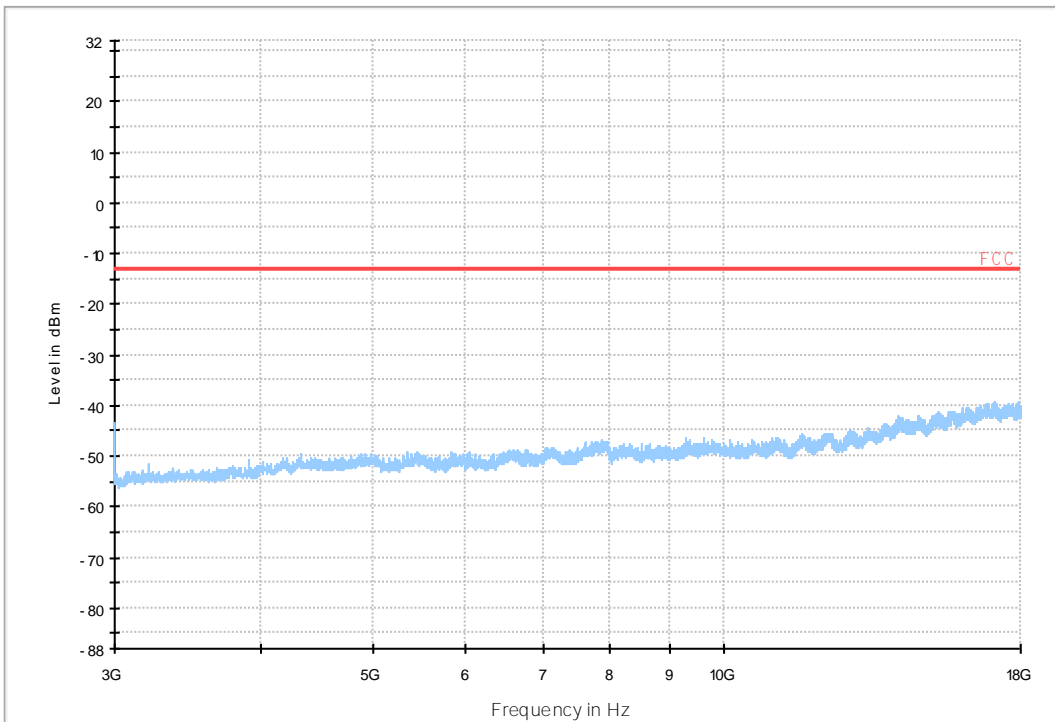
7.1.1.3 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



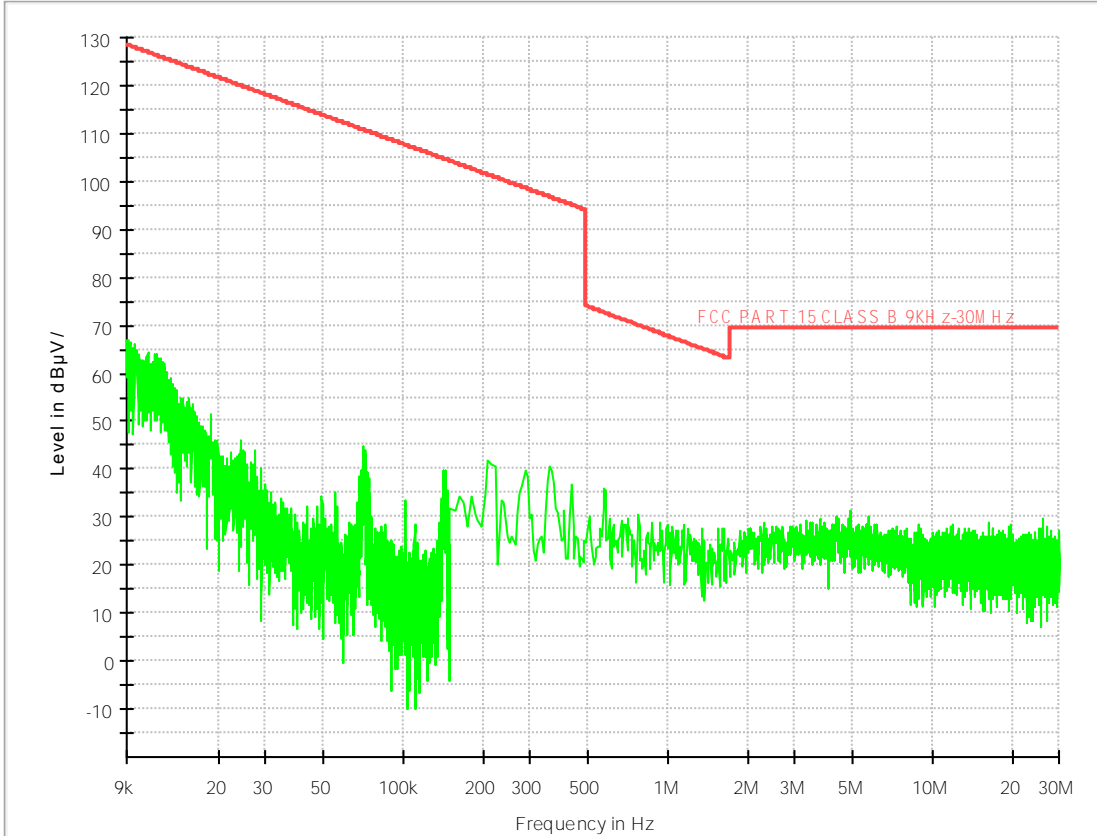
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H





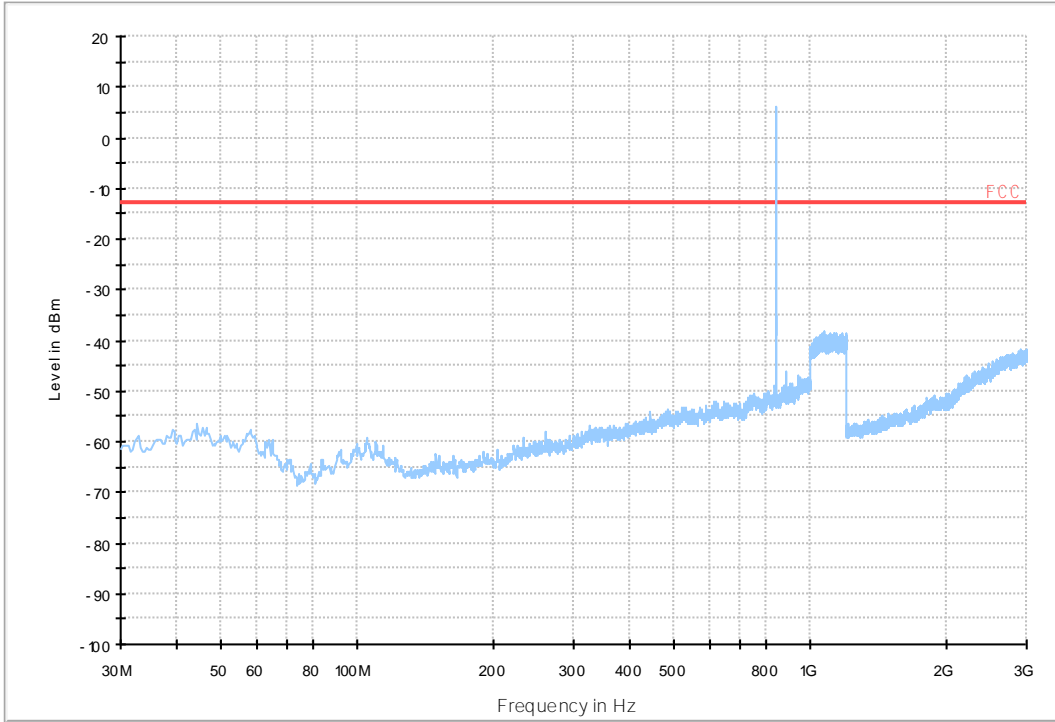
7.1.2 Test Band = BAND5-Ant2

7.1.2.1 Test Bandwidth = 1.4

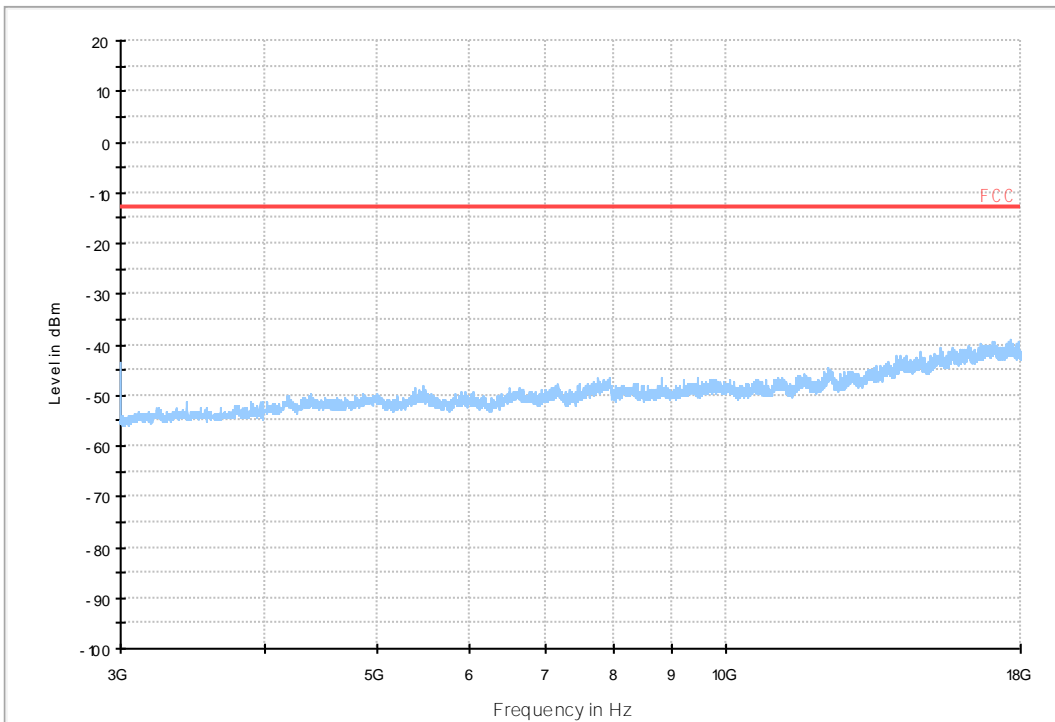




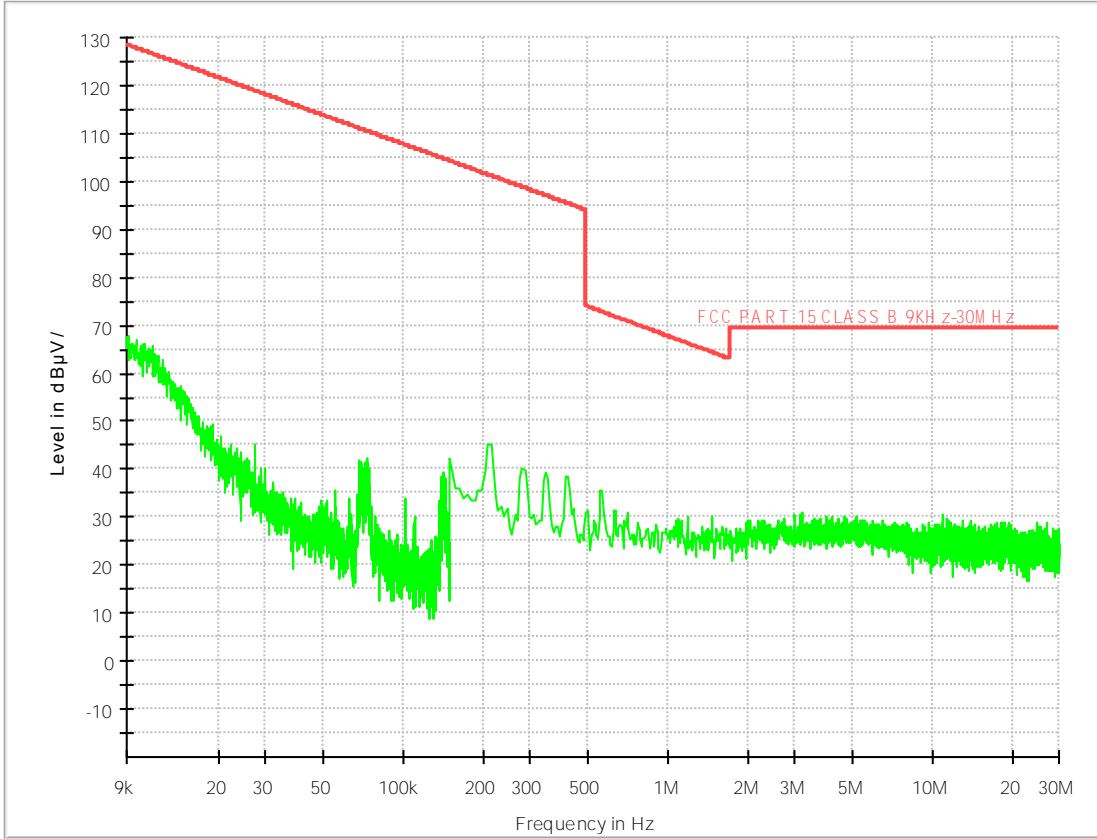
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD RSE-TX-DIRECTOR BELOW 1G_H

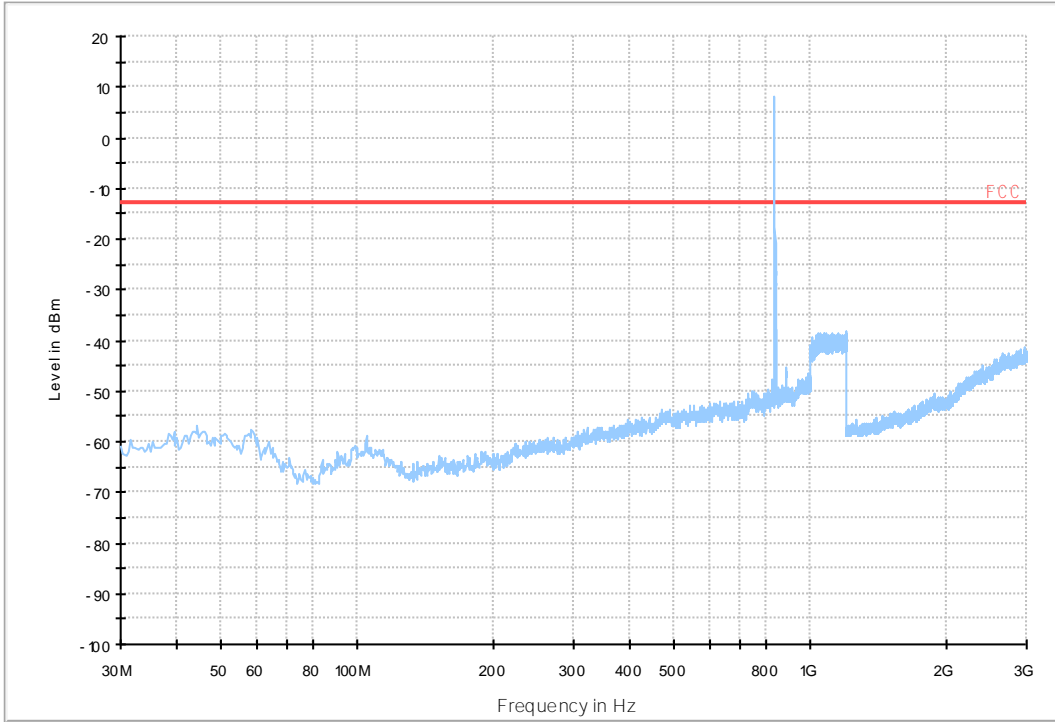


7.1.2.2 Test Bandwidth = 5

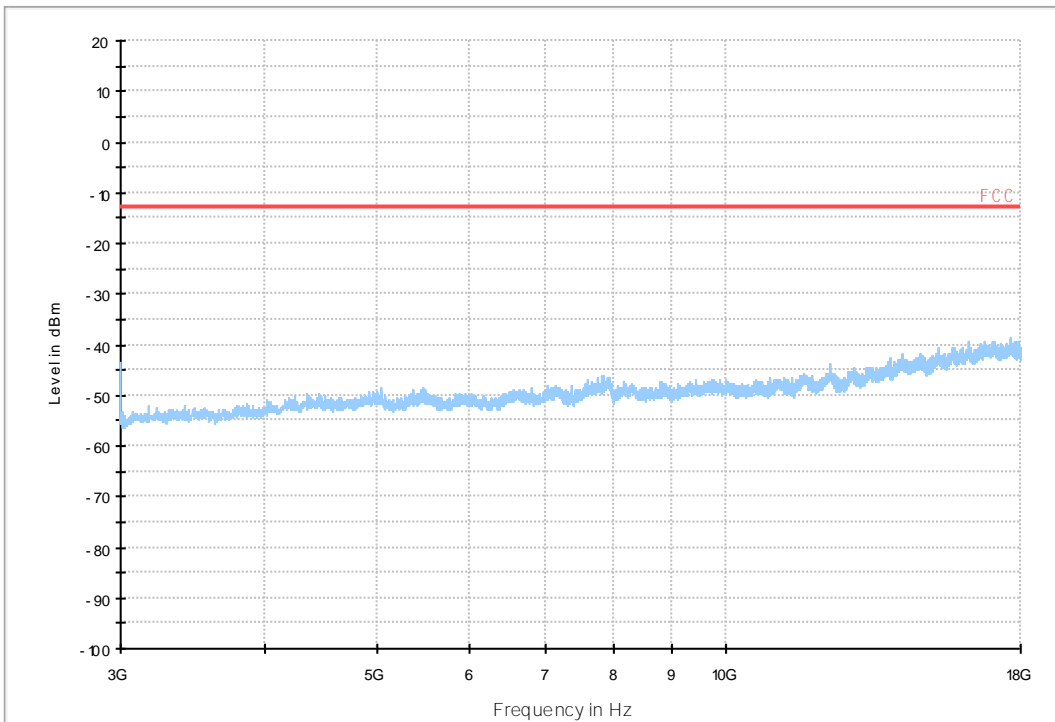




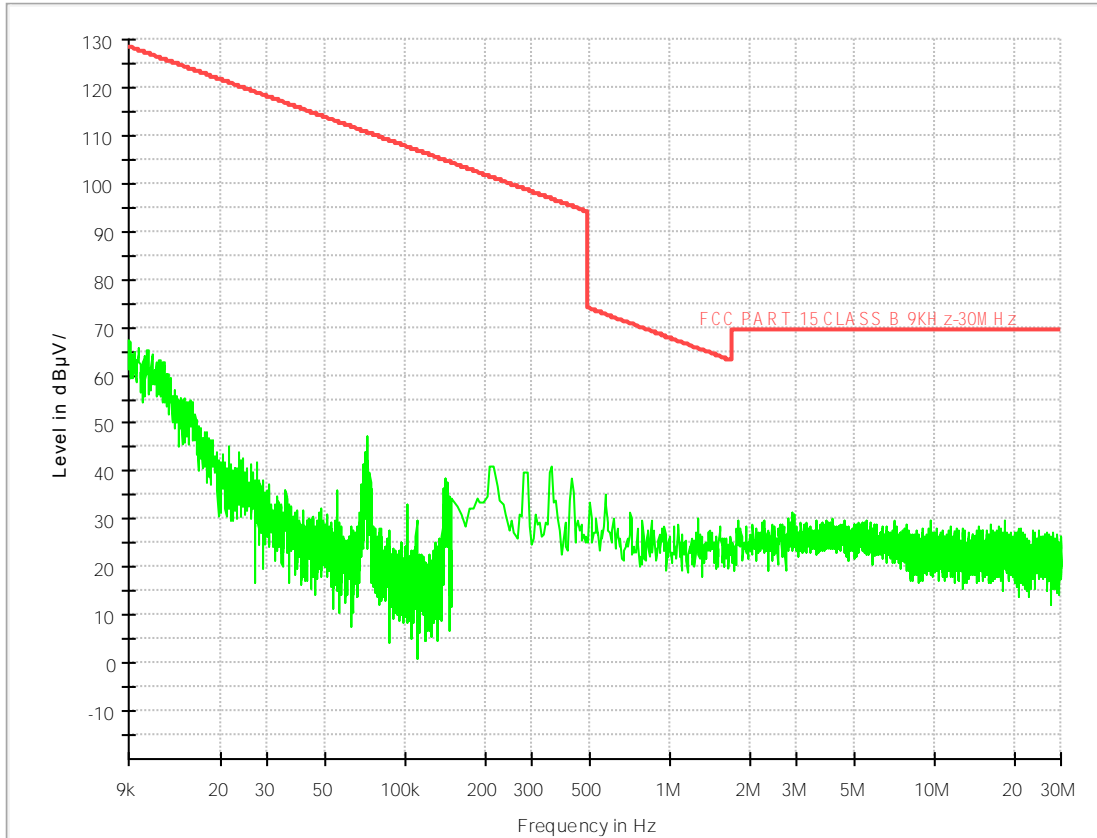
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



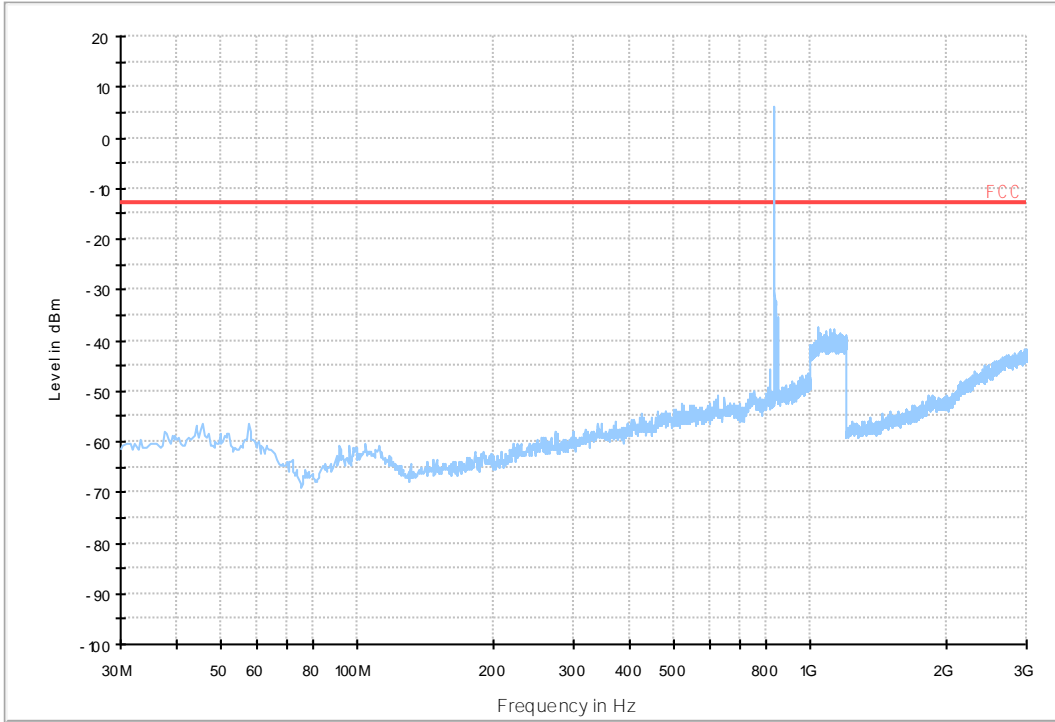
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



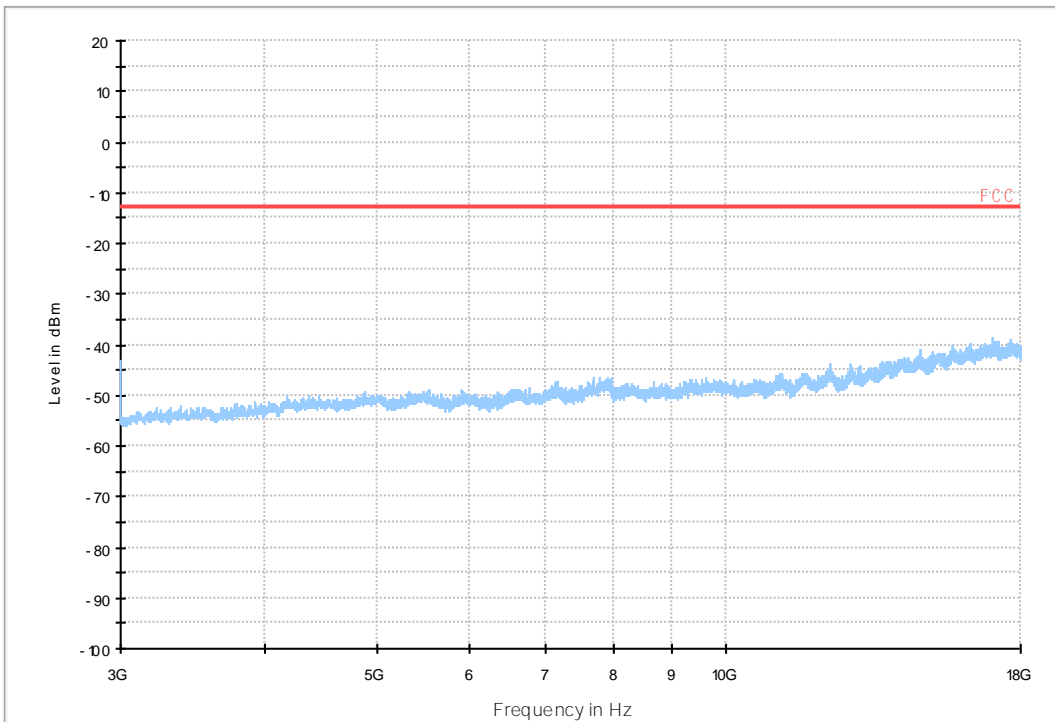
7.1.2.3 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD 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	1.16	0.00141	PASS
					VN	5.89	0.00714	PASS
					VH	5.89	0.00714	PASS
			MCH	TN	VL	5.05	0.00604	PASS
					VN	4.63	0.00553	PASS
					VH	2.66	0.00318	PASS
			HCH	TN	VL	-10.33	-0.01218	PASS
					VN	18.85	0.02222	PASS
					VH	11.80	0.01391	PASS
		3	LCH	TN	VL	1.66	0.00201	PASS
					VN	-1.44	-0.00174	PASS
					VH	1.80	0.00218	PASS
			MCH	TN	VL	-1.09	-0.0013	PASS
					VN	4.15	0.00496	PASS
					VH	0.09	0.00011	PASS
			HCH	TN	VL	-3.63	-0.00428	PASS
					VN	1.29	0.00152	PASS
					VH	-3.25	-0.00383	PASS
		5	LCH	TN	VL	0.97	0.00117	PASS
					VN	-0.23	-0.00028	PASS
					VH	1.23	0.00149	PASS
			MCH	TN	VL	0.06	0.00007	PASS
					VN	6.07	0.00726	PASS
					VH	6.04	0.00722	PASS
			HCH	TN	VL	1.80	0.00213	PASS
					VN	-3.81	-0.0045	PASS
					VH	1.16	0.00137	PASS
		10	LCH	TN	VL	-1.53	-0.00185	PASS
					VN	-1.37	-0.00165	PASS
					VH	1.87	0.00226	PASS
MCH	TN		VL	6.90	0.00825	PASS		
			VN	3.68	0.0044	PASS		
			VH	1.43	0.00171	PASS		
HCH	TN		VL	-0.57	-0.00068	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	3.39	0.00402	PASS
					VH	1.33	0.00158	PASS
		1.4	LCH	TN	VL	-4.25	-0.00515	PASS
					VN	6.82	0.00827	PASS
					VH	9.18	0.01113	PASS
			MCH	TN	VL	-7.24	-0.00866	PASS
					VN	9.68	0.01157	PASS
					VH	4.62	0.00552	PASS
			HCH	TN	VL	10.50	0.01238	PASS
					VN	18.38	0.02167	PASS
					VH	10.14	0.01195	PASS
		3	LCH	TN	VL	3.98	0.00482	PASS
					VN	2.68	0.00325	PASS
					VH	0.56	0.00068	PASS
			MCH	TN	VL	-2.13	-0.00255	PASS
					VN	-0.20	-0.00024	PASS
					VH	-3.63	-0.00434	PASS
			HCH	TN	VL	2.16	0.00255	PASS
					VN	1.03	0.00122	PASS
					VH	-1.50	-0.00177	PASS
		5	LCH	TN	VL	2.12	0.00257	PASS
					VN	1.69	0.00204	PASS
					VH	-0.79	-0.00096	PASS
			MCH	TN	VL	1.62	0.00194	PASS
					VN	2.92	0.00349	PASS
					VH	-8.23	-0.00984	PASS
			HCH	TN	VL	1.26	0.00149	PASS
					VN	1.06	0.00125	PASS
					VH	0.80	0.00095	PASS
		10	LCH	TN	VL	0.43	0.00052	PASS
					VN	1.75	0.00211	PASS
					VH	-1.60	-0.00193	PASS
			MCH	TN	VL	1.89	0.00226	PASS
					VN	2.53	0.00302	PASS
					VH	1.34	0.0016	PASS
			HCH	TN	VL	-2.26	-0.00268	PASS
					VN	-2.15	-0.00255	PASS
					VH	-0.19	-0.00023	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	1.16	0.00141	PASS
					-20	-2.45	-0.00297	PASS
					-10	2.86	0.00347	PASS
					0	-7.21	-0.00874	PASS
					10	6.01	0.00729	PASS
					20	25.41	0.03081	PASS
					30	4.75	0.00576	PASS
					40	-39.47	-0.04786	PASS
			50	12.82	0.01555	PASS		
			MCH	VN	-30	-8.38	-0.01002	PASS
					-20	-15.34	-0.01834	PASS
					-10	-2.63	-0.00314	PASS
					0	-1.90	-0.00227	PASS
					10	24.88	0.02974	PASS
					20	10.76	0.01286	PASS
					30	-1.34	-0.0016	PASS
					40	6.12	0.00732	PASS
			50	-3.23	-0.00386	PASS		
			HCH	VN	-30	-5.92	-0.00698	PASS
					-20	5.42	0.00639	PASS
					-10	-11.96	-0.0141	PASS
					0	14.43	0.01701	PASS
					10	12.29	0.01449	PASS
					20	8.04	0.00948	PASS
		30			-6.21	-0.00732	PASS	
		40			-67.65	-0.07975	PASS	
		50	-1.87	-0.0022	PASS			
		3	LCH	VN	-30	2.03	0.00246	PASS
					-20	0.66	0.0008	PASS
					-10	2.50	0.00303	PASS
					0	-0.13	-0.00016	PASS
					10	2.30	0.00279	PASS
					20	-1.54	-0.00187	PASS
					30	5.85	0.00709	PASS
					40	1.32	0.0016	PASS
					50	4.08	0.00494	PASS
MCH	VN				-30	4.05	0.00484	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	2.00	0.00239	PASS		
					-10	-1.66	-0.00198	PASS		
					0	6.24	0.00746	PASS		
					10	-0.10	-0.00012	PASS		
					20	5.26	0.00629	PASS		
					30	2.76	0.0033	PASS		
					40	-3.93	-0.0047	PASS		
					50	0.77	0.00092	PASS		
			HCH	VN	-30	-2.06	-0.00243	PASS		
					-20	0.23	0.00027	PASS		
					-10	-0.30	-0.00035	PASS		
					0	-3.83	-0.00452	PASS		
					10	-4.09	-0.00483	PASS		
					20	-1.24	-0.00146	PASS		
					30	0.37	0.00044	PASS		
					40	-0.20	-0.00024	PASS		
			LCH	VN	-30	2.95	0.00357	PASS		
					-20	-0.20	-0.00024	PASS		
					-10	-0.47	-0.00057	PASS		
					0	-2.07	-0.0025	PASS		
		10			-3.40	-0.00411	PASS			
		20			2.50	0.00302	PASS			
		30			1.37	0.00166	PASS			
		40			-0.60	-0.00073	PASS			
		MCH	VN	-30	3.30	0.00395	PASS			
				-20	3.09	0.00369	PASS			
				-10	0.69	0.00082	PASS			
				0	-0.44	-0.00053	PASS			
				10	5.68	0.00679	PASS			
				20	5.91	0.00707	PASS			
				30	4.31	0.00515	PASS			
				40	1.72	0.00206	PASS			
		HCH	VN	-30	-0.13	-0.00015	PASS			
				-20	-2.06	-0.00243	PASS			
				-10	0.14	0.00017	PASS			
				0	-0.92	-0.00109	PASS			
		5					-30	2.95	0.00357	PASS
							-20	-0.20	-0.00024	PASS
							-10	-0.47	-0.00057	PASS
							0	-2.07	-0.0025	PASS
10	-3.40						-0.00411	PASS		
20	2.50						0.00302	PASS		
30	1.37						0.00166	PASS		
40	-0.60						-0.00073	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-2.75	-0.00325	PASS
					20	2.69	0.00318	PASS
					30	-2.79	-0.0033	PASS
					40	0.13	0.00015	PASS
					50	-1.83	-0.00216	PASS
			LCH	VN	-30	2.50	0.00302	PASS
					-20	-0.11	-0.00013	PASS
					-10	-0.09	-0.00011	PASS
					0	0.54	0.00065	PASS
					10	-0.96	-0.00116	PASS
		20			-4.73	-0.00571	PASS	
		MCH	VN	30	0.67	0.00081	PASS	
				40	-0.74	-0.00089	PASS	
				50	1.22	0.00147	PASS	
				-30	4.71	0.00563	PASS	
				-20	4.79	0.00573	PASS	
				-10	2.89	0.00345	PASS	
		HCH	VN	0	2.75	0.00329	PASS	
				10	1.89	0.00226	PASS	
				20	3.75	0.00448	PASS	
				30	4.36	0.00521	PASS	
	40			5.52	0.0066	PASS		
	50			3.55	0.00424	PASS		
	-30			-1.73	-0.00205	PASS		
	-20	-3.79	-0.00449	PASS				
	-10	-4.12	-0.00488	PASS				
	0	-0.04	-0.00005	PASS				
	10	-5.11	-0.00605	PASS				
	20	-3.49	-0.00414	PASS				
	30	-6.47	-0.00767	PASS				
	40	-3.28	-0.00389	PASS				
	50	0.84	0.001	PASS				
	LTE/TM2	1.4	LCH	VN	-30	5.06	0.00614	PASS
-20					1.23	0.00149	PASS	
-10					-0.51	-0.00062	PASS	
0					1.34	0.00162	PASS	
10					5.54	0.00672	PASS	
20					-3.33	-0.00404	PASS	
30					4.62	0.0056	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	2.76	0.00335	PASS	
					50	39.41	0.04779	PASS	
			MCH	VN	-30	-7.60	-0.00909	PASS	
					-20	-1.97	-0.00236	PASS	
					-10	30.74	0.03675	PASS	
					0	-1.16	-0.00139	PASS	
					10	10.33	0.01235	PASS	
					20	3.72	0.00445	PASS	
					30	-0.20	-0.00024	PASS	
					40	-4.76	-0.00569	PASS	
					50	-17.04	-0.02037	PASS	
					HCH	VN	-30	5.54	0.00653
			-20	-7.91			-0.00932	PASS	
			-10	12.43			0.01465	PASS	
			0	7.20			0.00849	PASS	
			10	-15.35			-0.0181	PASS	
			20	-17.81			-0.02099	PASS	
			30	-1.52			-0.00179	PASS	
		40	22.02	0.02596			PASS		
		3		LCH	VN	-30	7.01	0.00849	PASS
						-20	1.13	0.00137	PASS
						-10	-2.33	-0.00282	PASS
						0	1.63	0.00197	PASS
						10	-0.72	-0.00087	PASS
						20	3.48	0.00422	PASS
						30	0.34	0.00041	PASS
						40	0.60	0.00073	PASS
						50	1.30	0.00157	PASS
				MCH	VN	-30	-0.92	-0.0011	PASS
						-20	2.40	0.00287	PASS
						-10	1.40	0.00167	PASS
						0	8.38	0.01002	PASS
						10	3.56	0.00426	PASS
						20	3.08	0.00368	PASS
						30	-1.70	-0.00203	PASS
						40	-2.83	-0.00338	PASS
50	-0.56					-0.00067	PASS		
HCH	VN	-30	-0.76	-0.0009	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-1.92	-0.00227	PASS
					-10	5.35	0.00631	PASS
					0	-1.19	-0.0014	PASS
					10	1.56	0.00184	PASS
					20	-1.32	-0.00156	PASS
					30	-2.26	-0.00267	PASS
					40	0.40	0.00047	PASS
					50	2.75	0.00324	PASS
		5	LCH	VN	-30	0.01	0.00001	PASS
					-20	0.50	0.0006	PASS
					-10	-1.16	-0.0014	PASS
					0	-0.16	-0.00019	PASS
					10	0.41	0.0005	PASS
					20	-1.07	-0.00129	PASS
					30	0.30	0.00036	PASS
					40	1.33	0.00161	PASS
			MCH	VN	-30	0.00	0	PASS
					-20	1.86	0.00222	PASS
					-10	8.14	0.00973	PASS
					0	7.11	0.0085	PASS
					10	0.99	0.00118	PASS
					20	-0.57	-0.00068	PASS
					30	2.60	0.00311	PASS
					40	0.64	0.00077	PASS
			HCH	VN	-30	1.34	0.00158	PASS
					-20	1.80	0.00213	PASS
					-10	-3.65	-0.00431	PASS
					0	-0.13	-0.00015	PASS
					10	1.60	0.00189	PASS
					20	2.00	0.00236	PASS
					30	0.14	0.00017	PASS
					40	3.38	0.00399	PASS
		10	LCH	VN	-30	-1.00	-0.00121	PASS
					-20	3.33	0.00402	PASS
					-10	-2.83	-0.00341	PASS
					0	1.73	0.00209	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	0.97	0.00117	PASS		
					20	2.30	0.00277	PASS		
					30	0.99	0.00119	PASS		
					40	-1.29	-0.00156	PASS		
					50	-0.30	-0.00036	PASS		
			MCH	VN	-30	-0.67	-0.0008	PASS		
							-20	1.09	0.0013	PASS
							-10	3.29	0.00393	PASS
							0	2.68	0.0032	PASS
							10	-1.17	-0.0014	PASS
							20	3.78	0.00452	PASS
							30	0.40	0.00048	PASS
							40	1.83	0.00219	PASS
			HCH	VN	50	3.88	0.00464	PASS		
							-30	-2.92	-0.00346	PASS
							-20	-4.68	-0.00555	PASS
							-10	-1.59	-0.00188	PASS
							0	-4.88	-0.00578	PASS
							10	-3.43	-0.00406	PASS
							20	-1.16	-0.00137	PASS
							30	-2.57	-0.00305	PASS
					40	-3.43	-0.00406	PASS		
					50	-1.40	-0.00166	PASS		

END