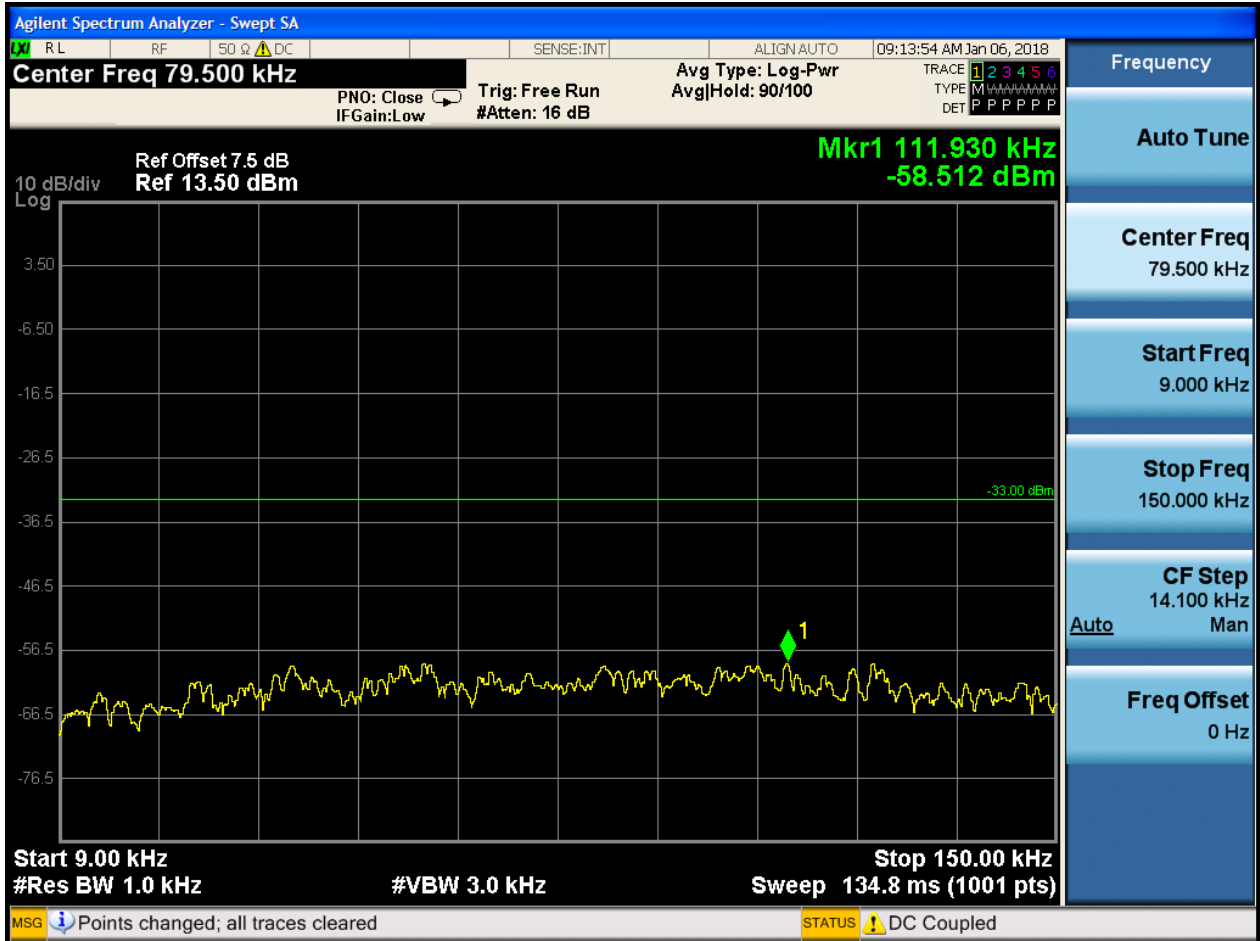
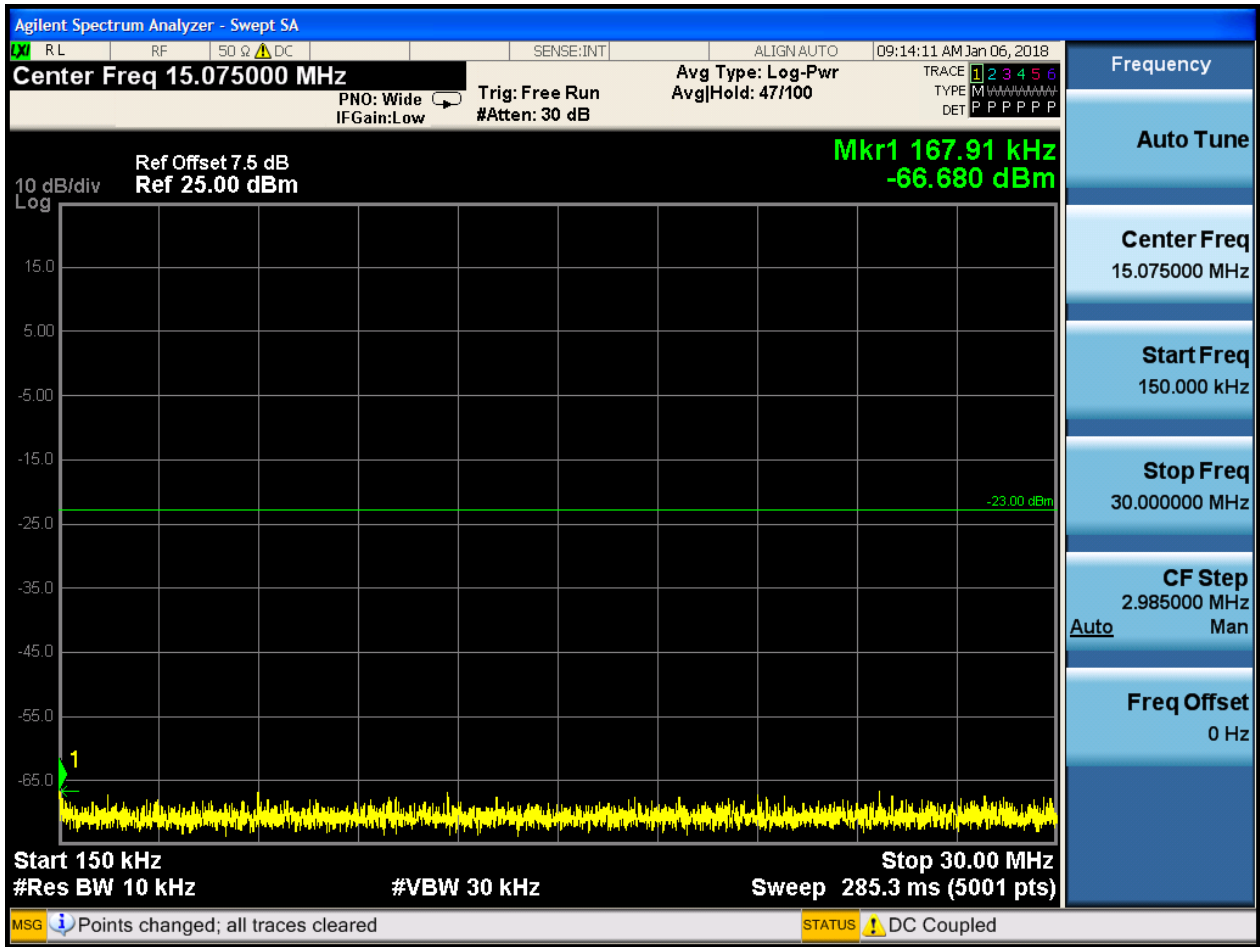


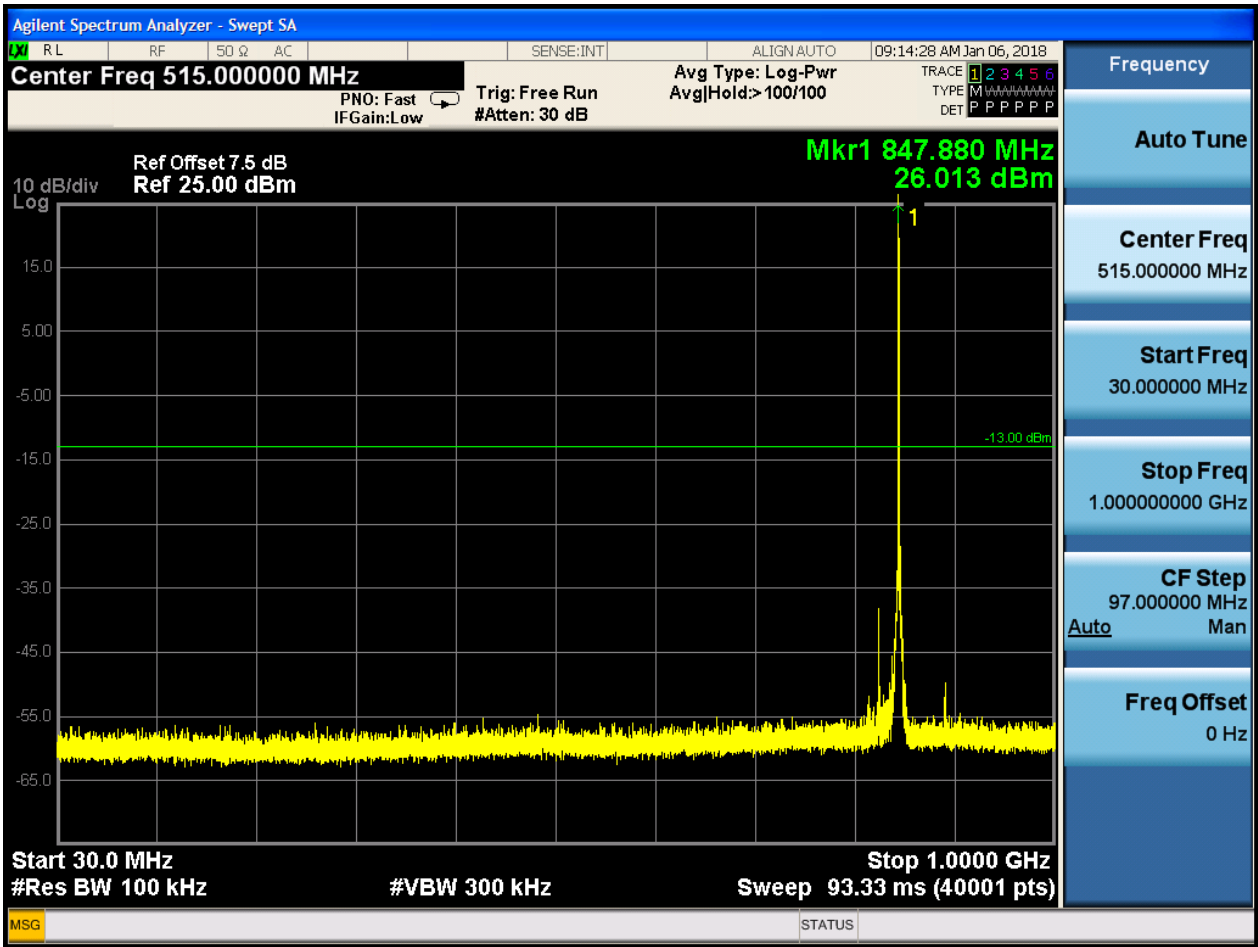


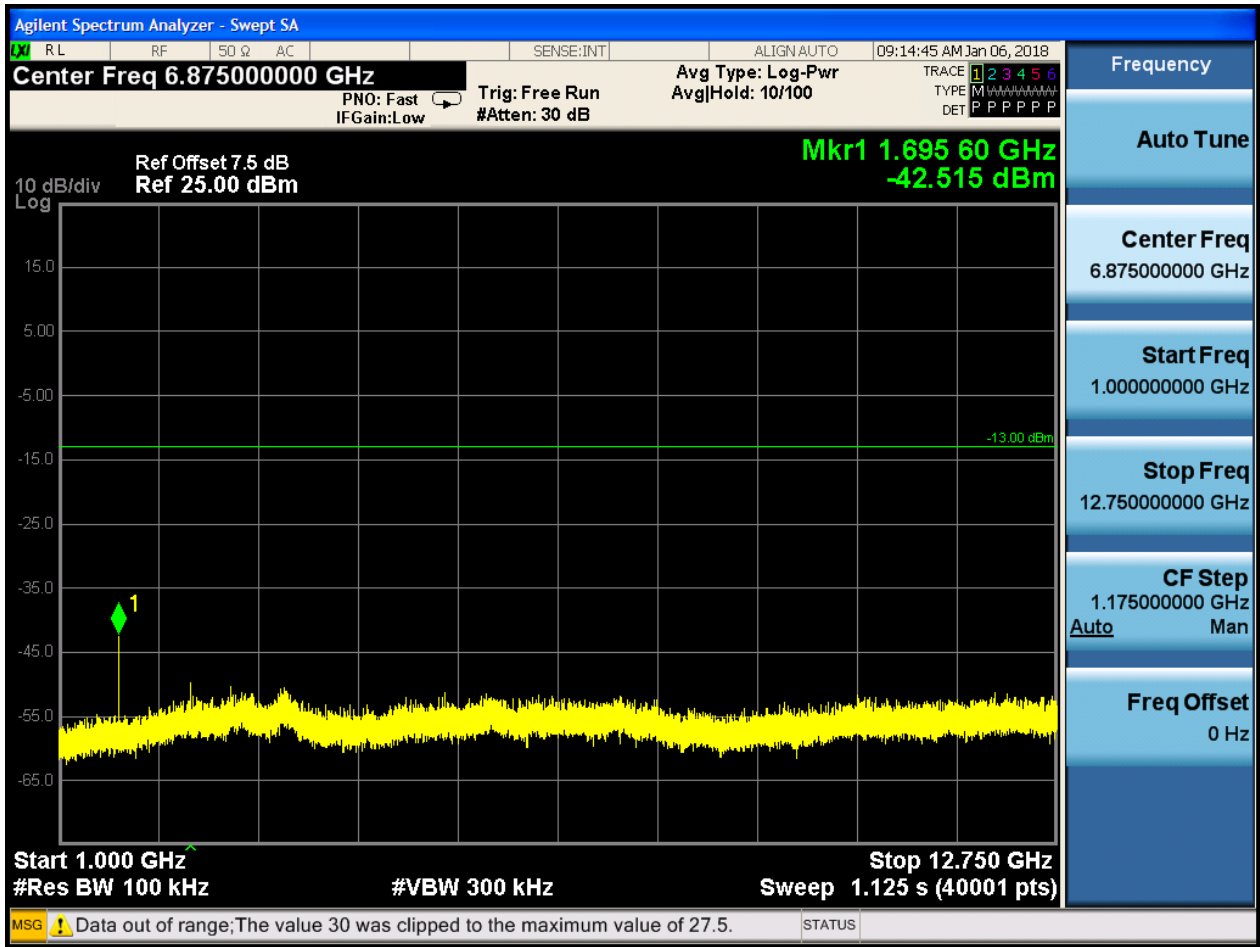
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0







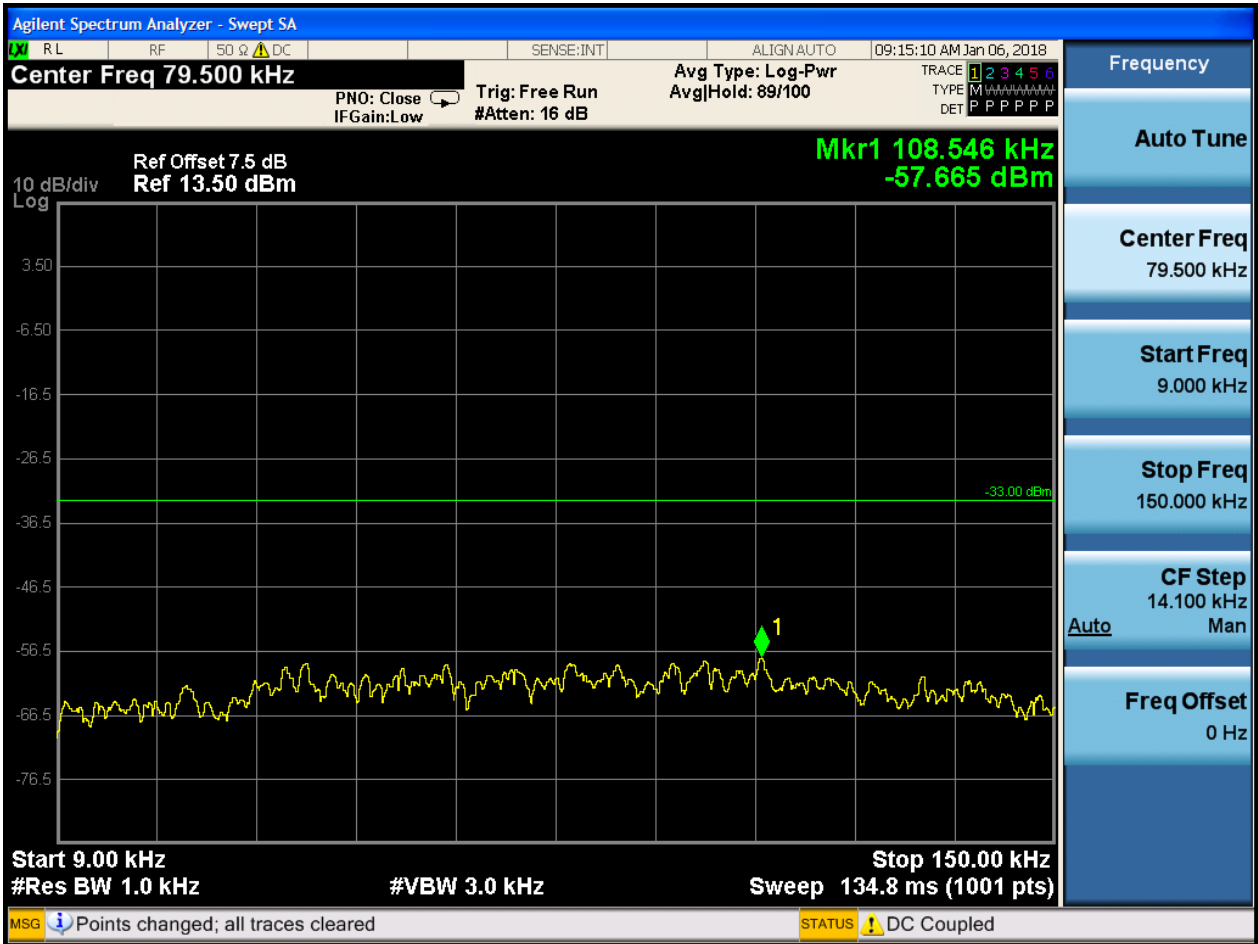


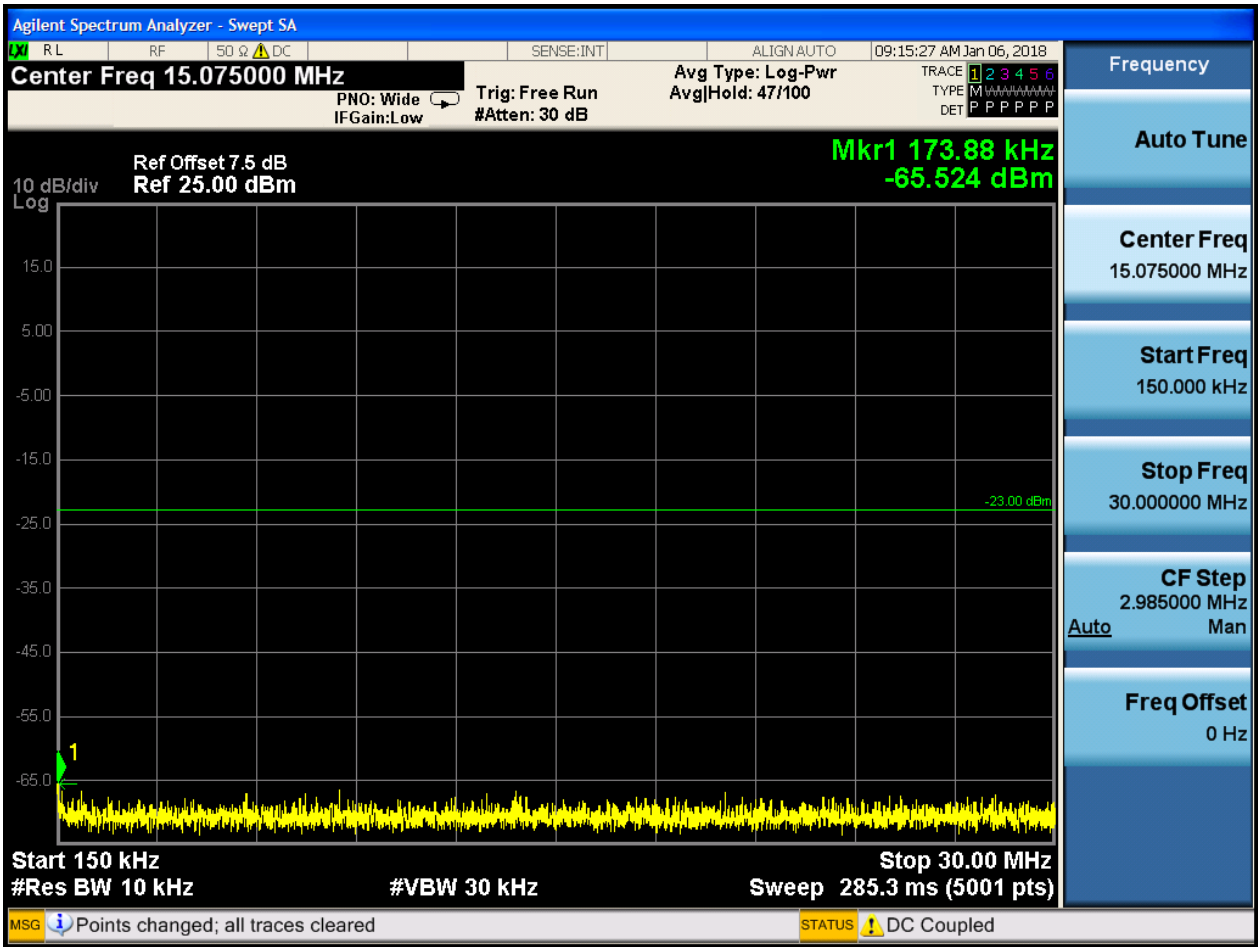


6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

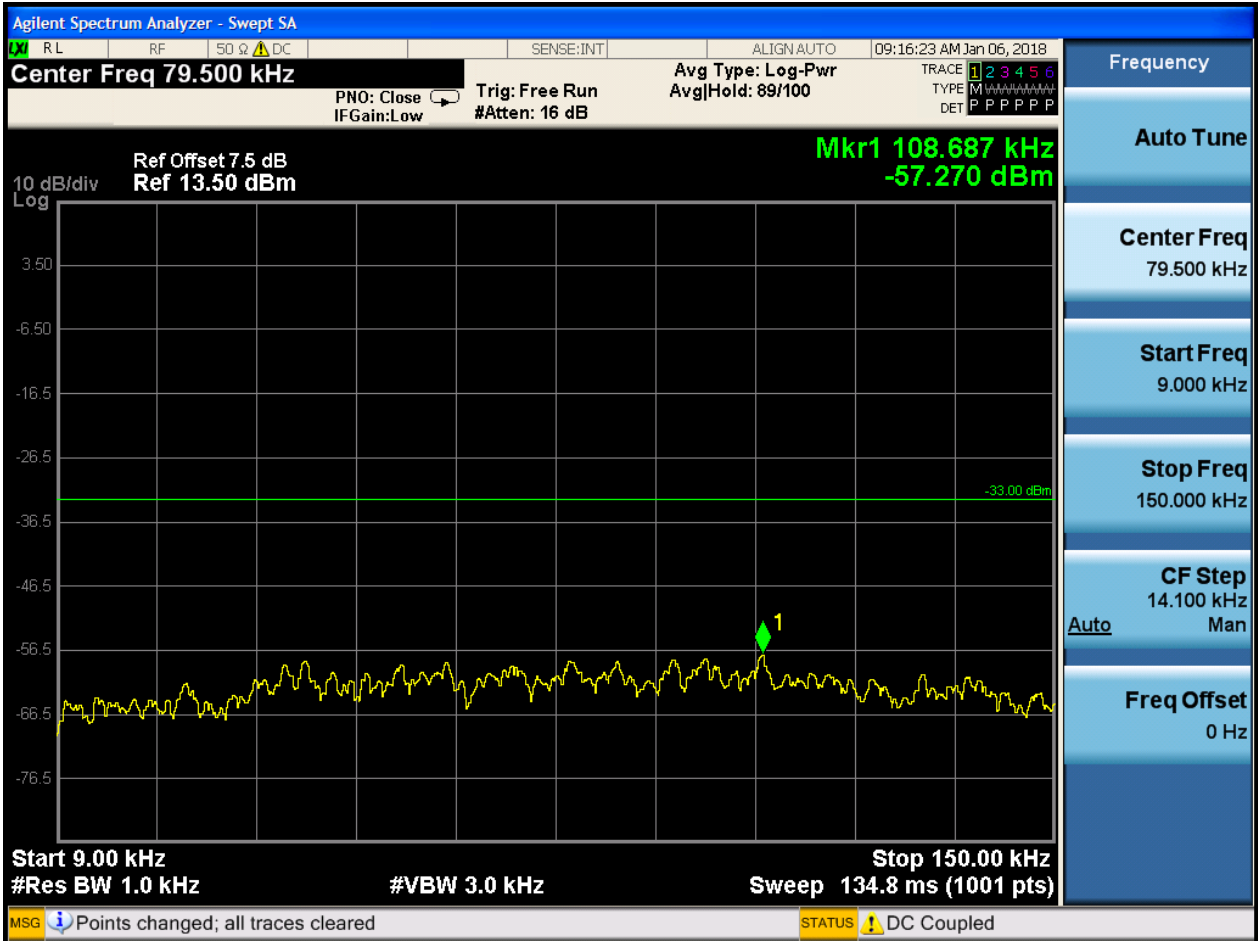


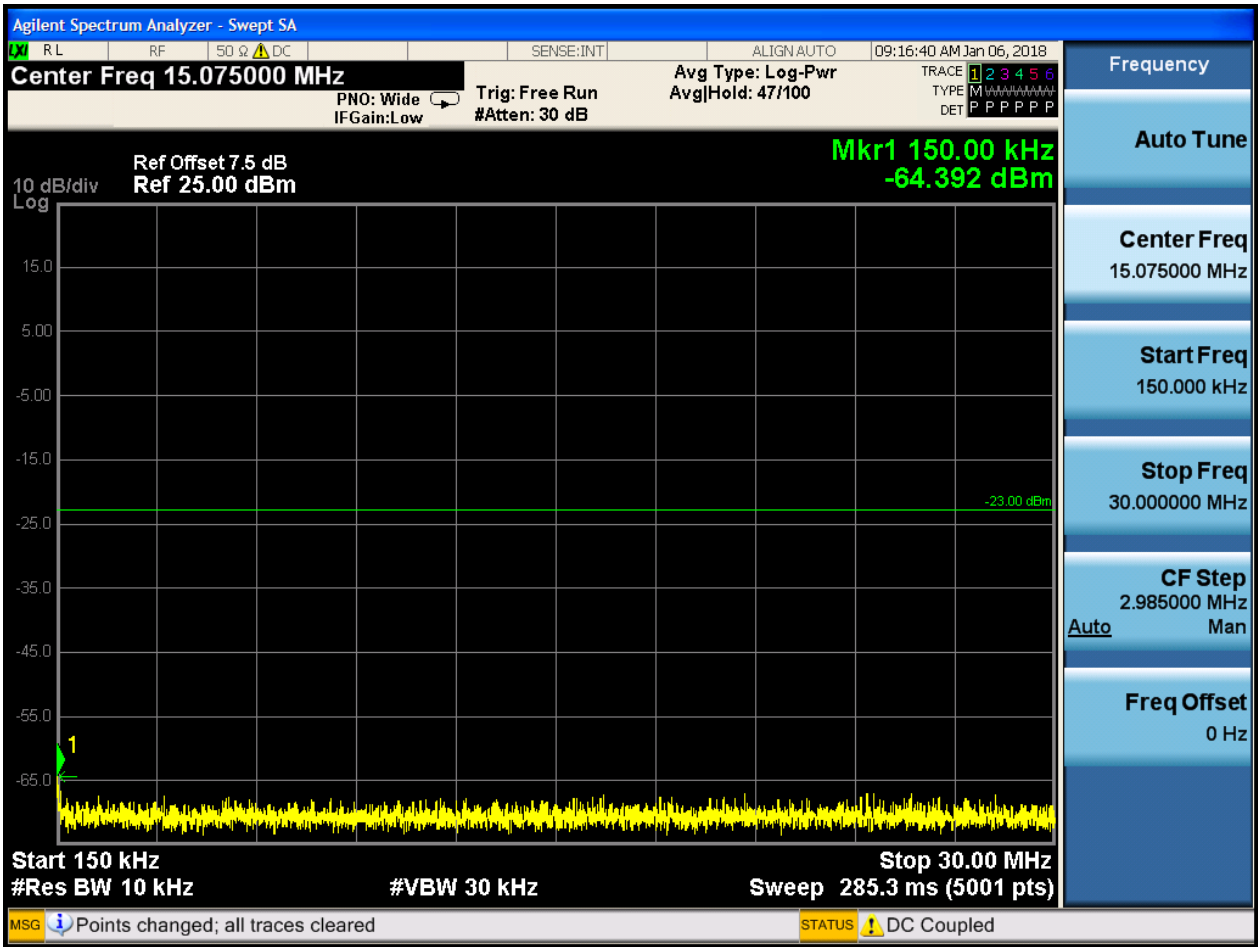


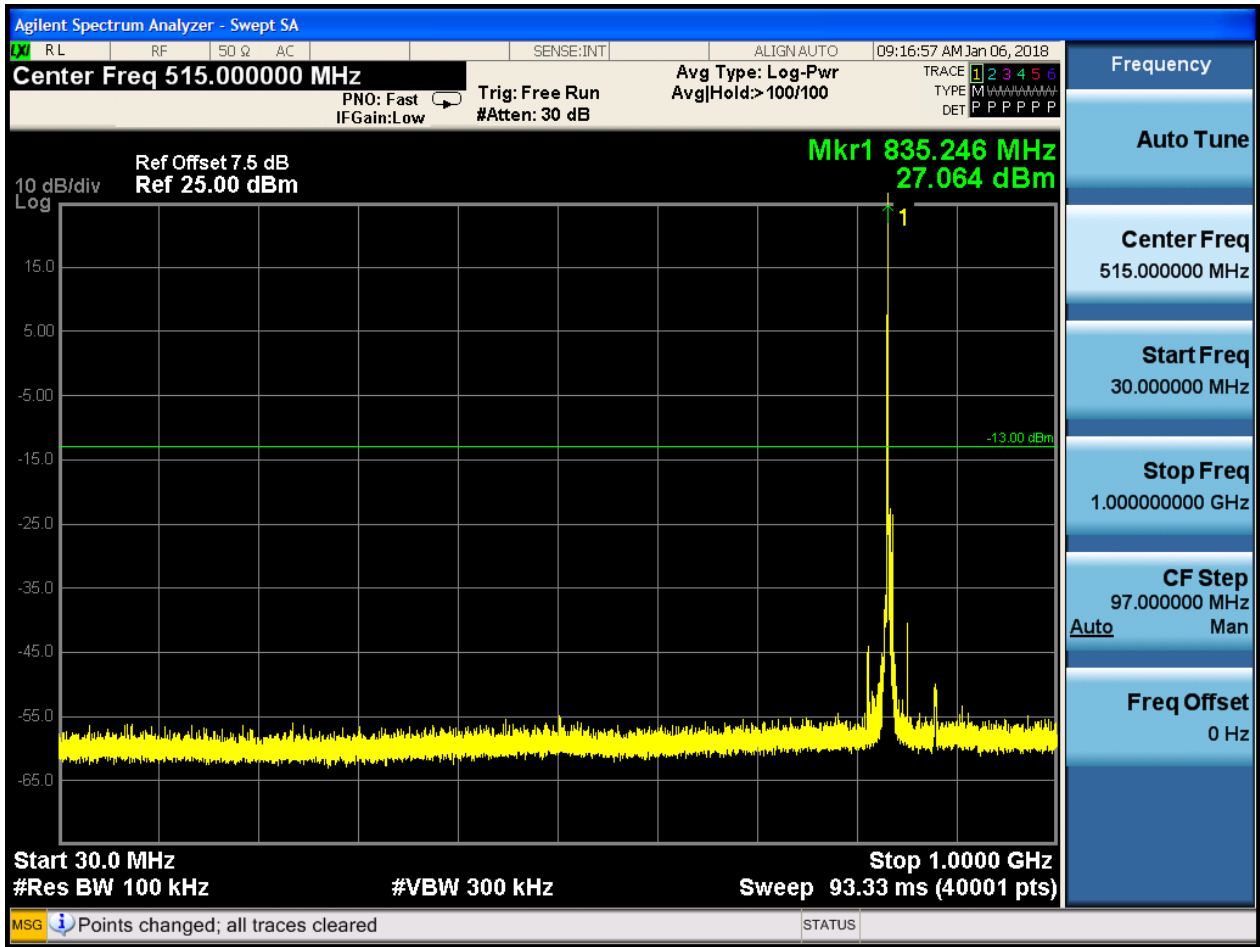


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



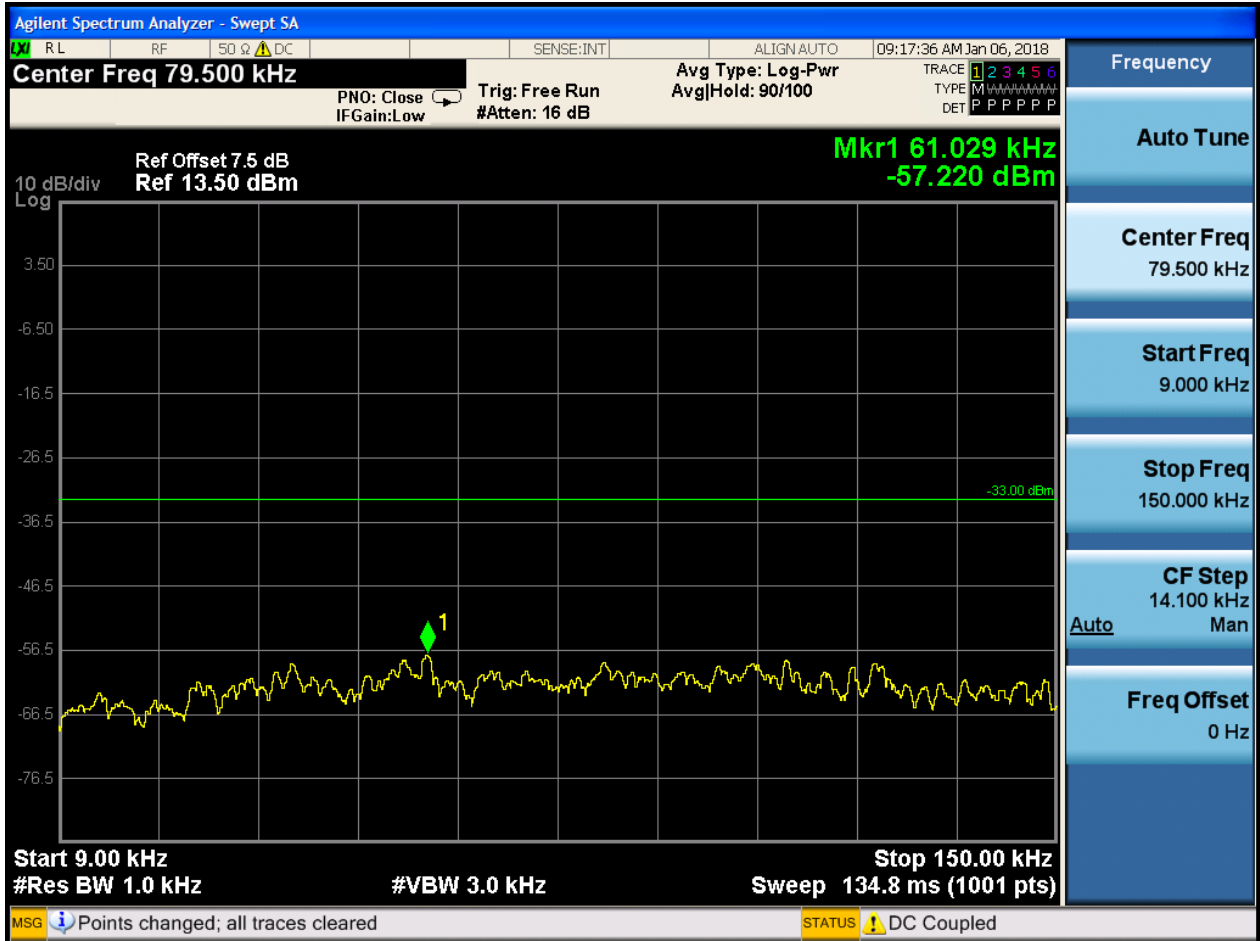


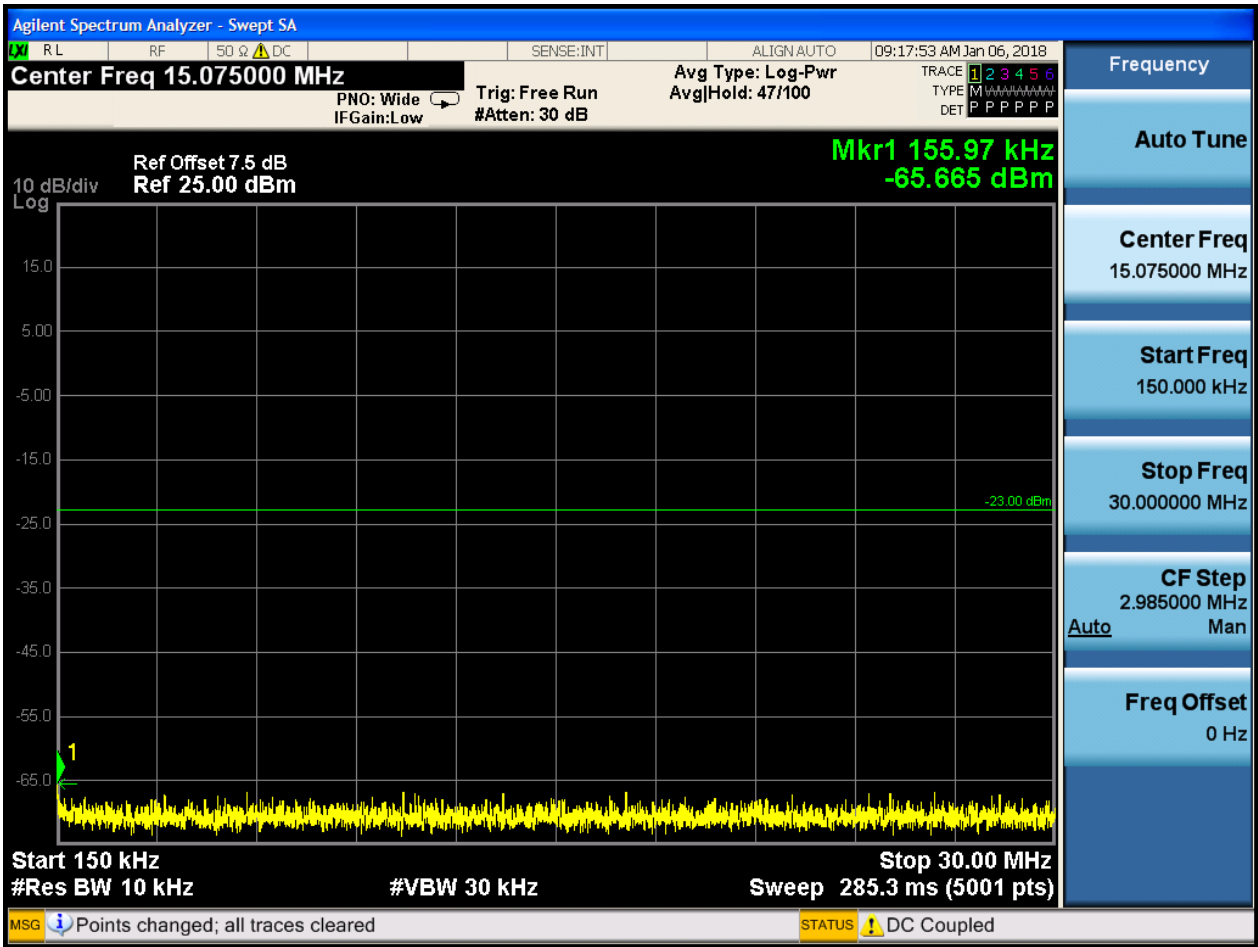


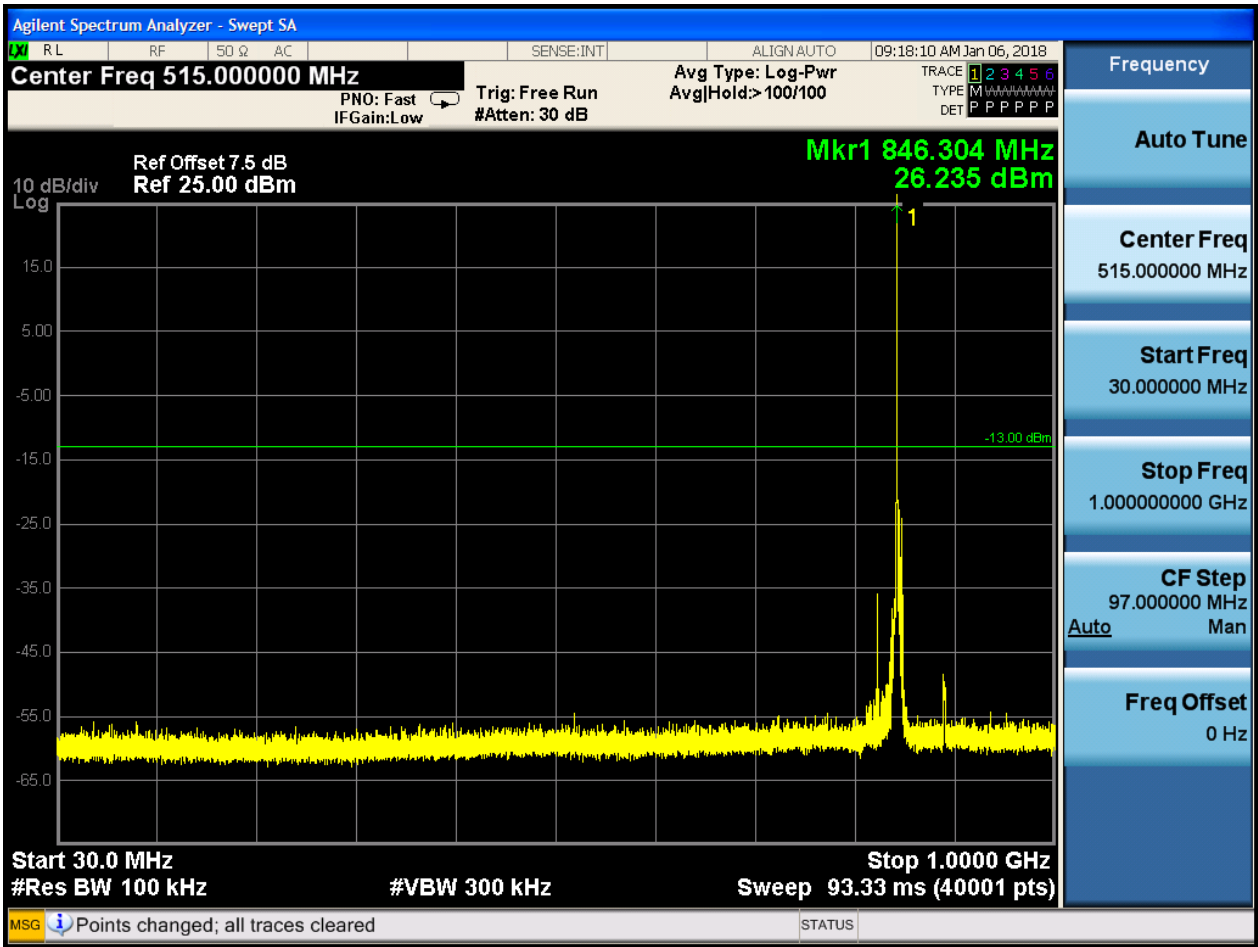


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





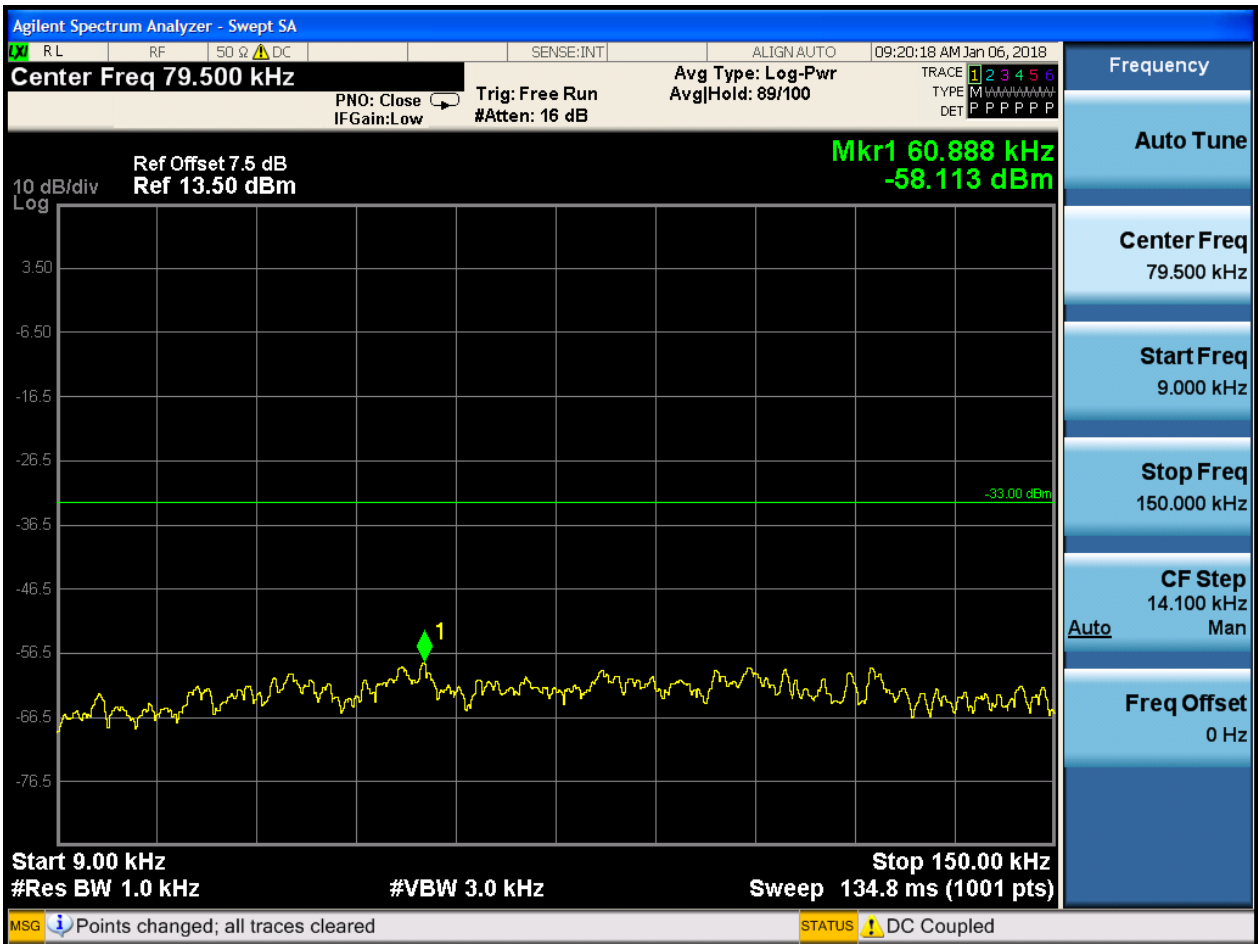




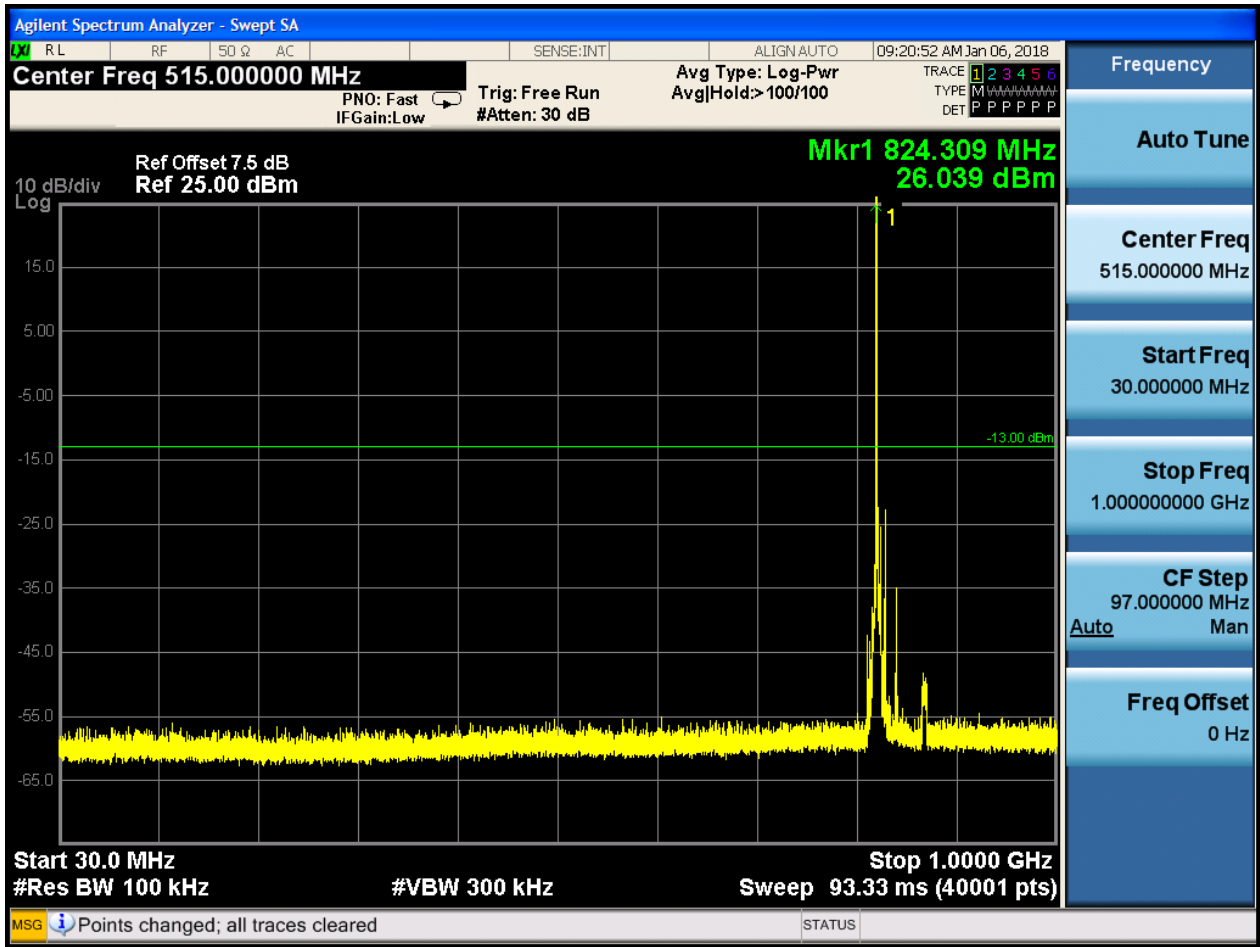
6.1.1.1.3 Test Bandwidth = 5

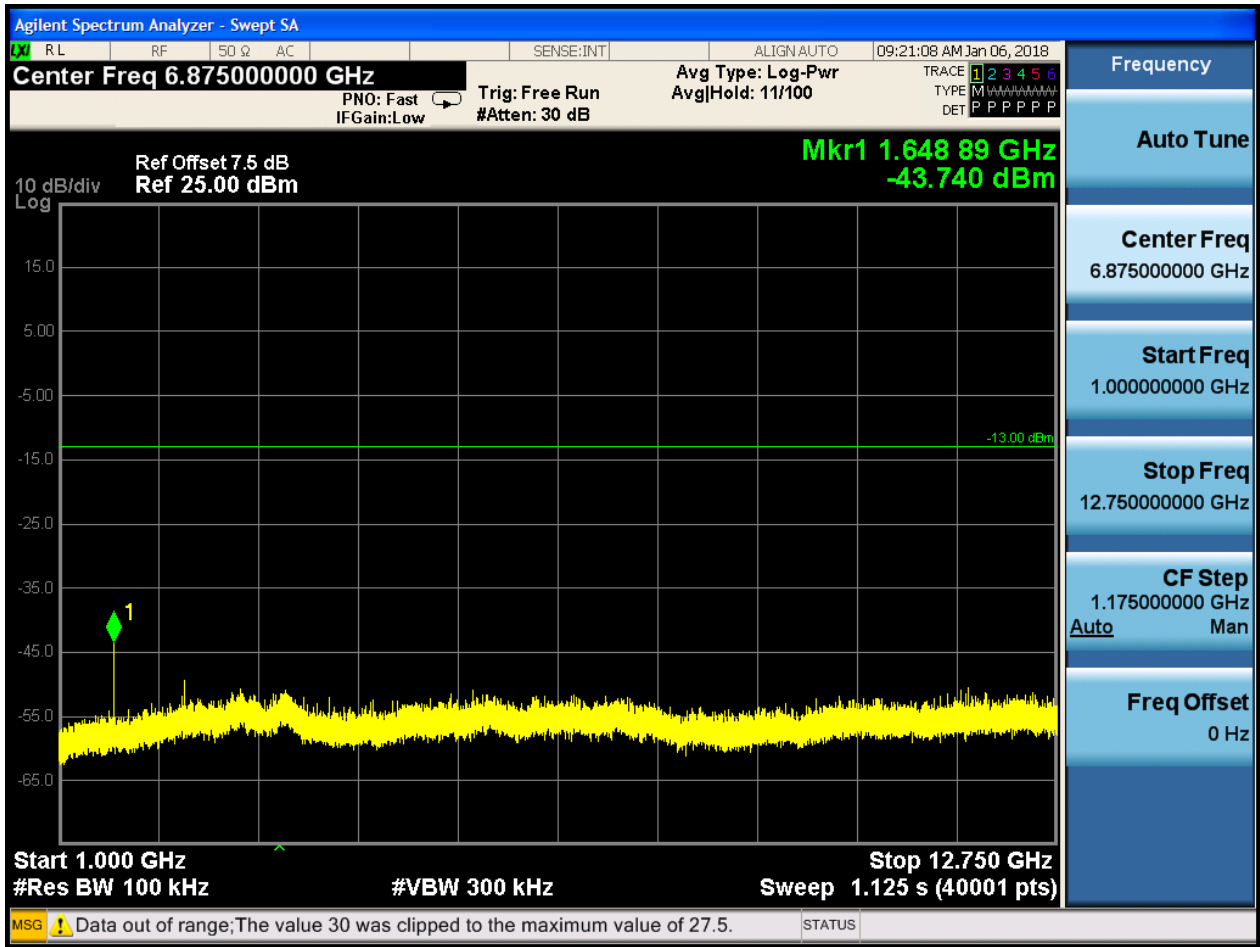
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





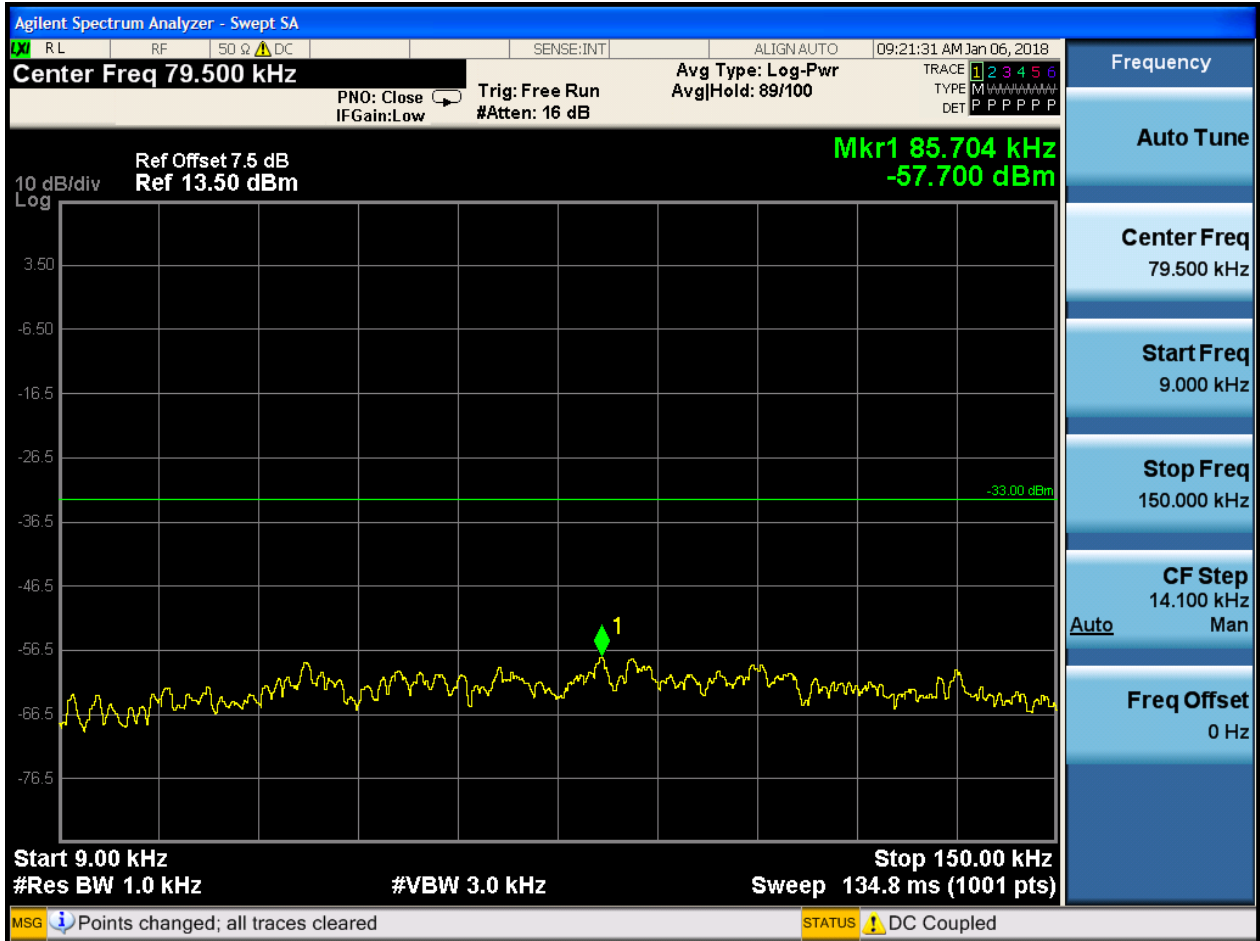


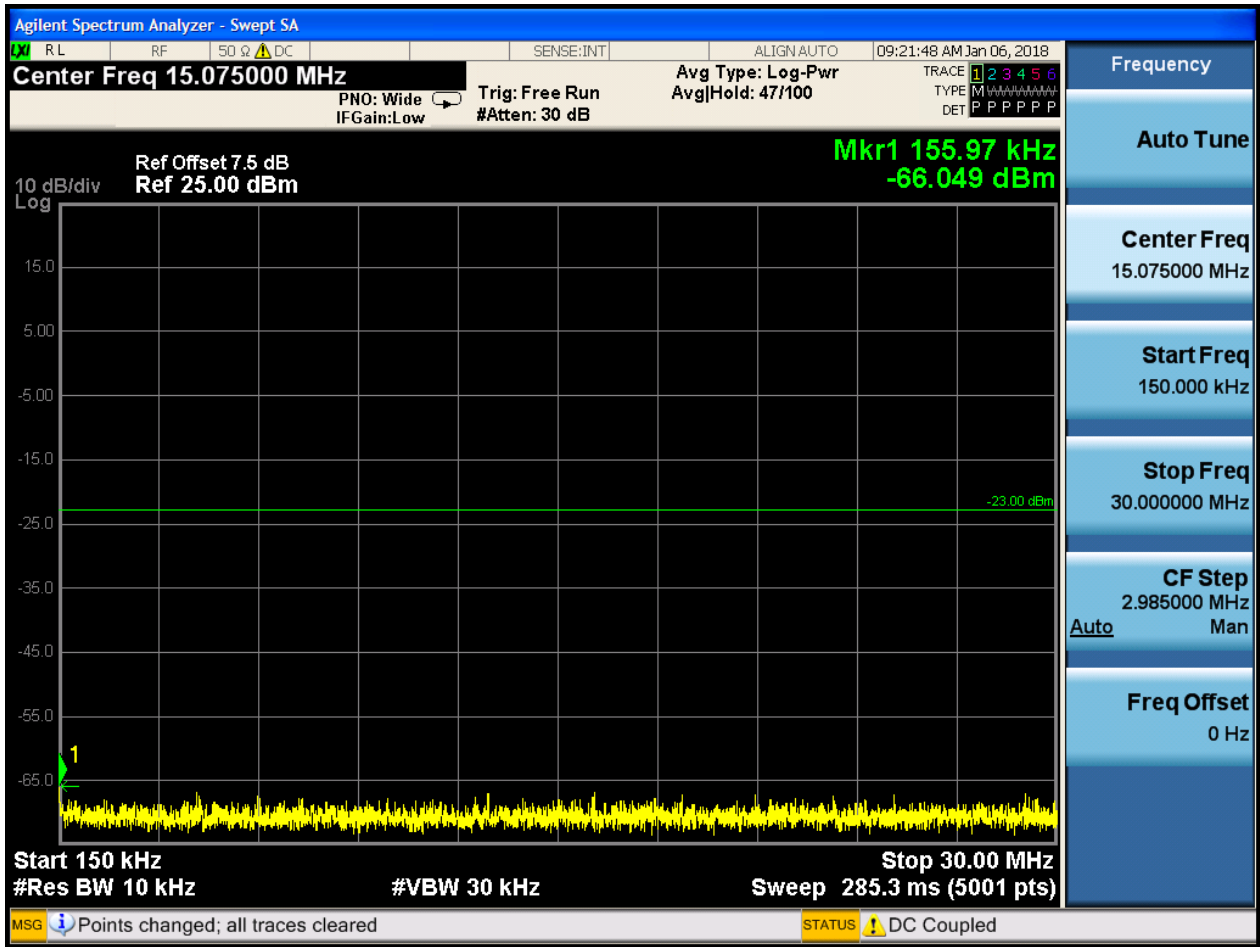




6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0

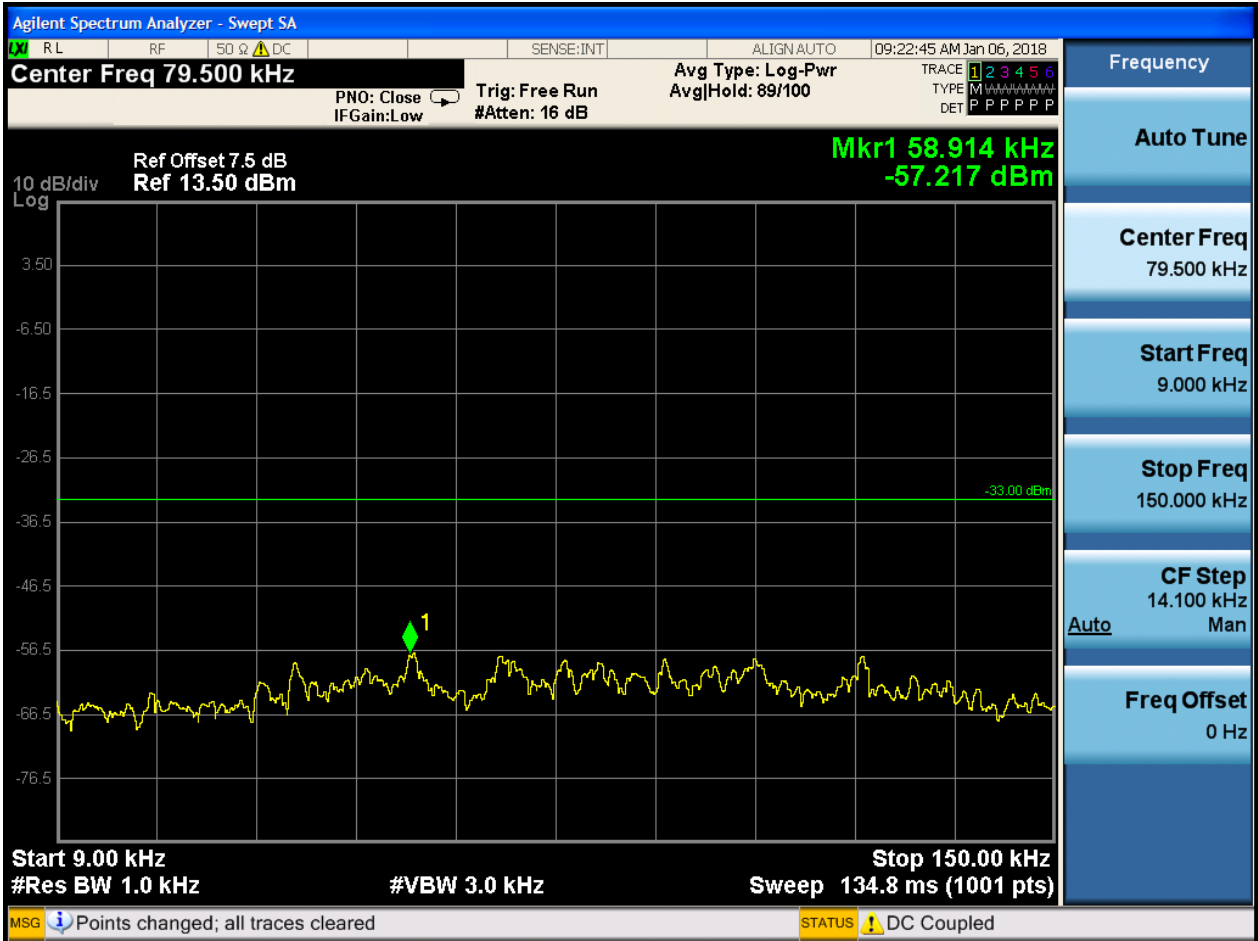






6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0

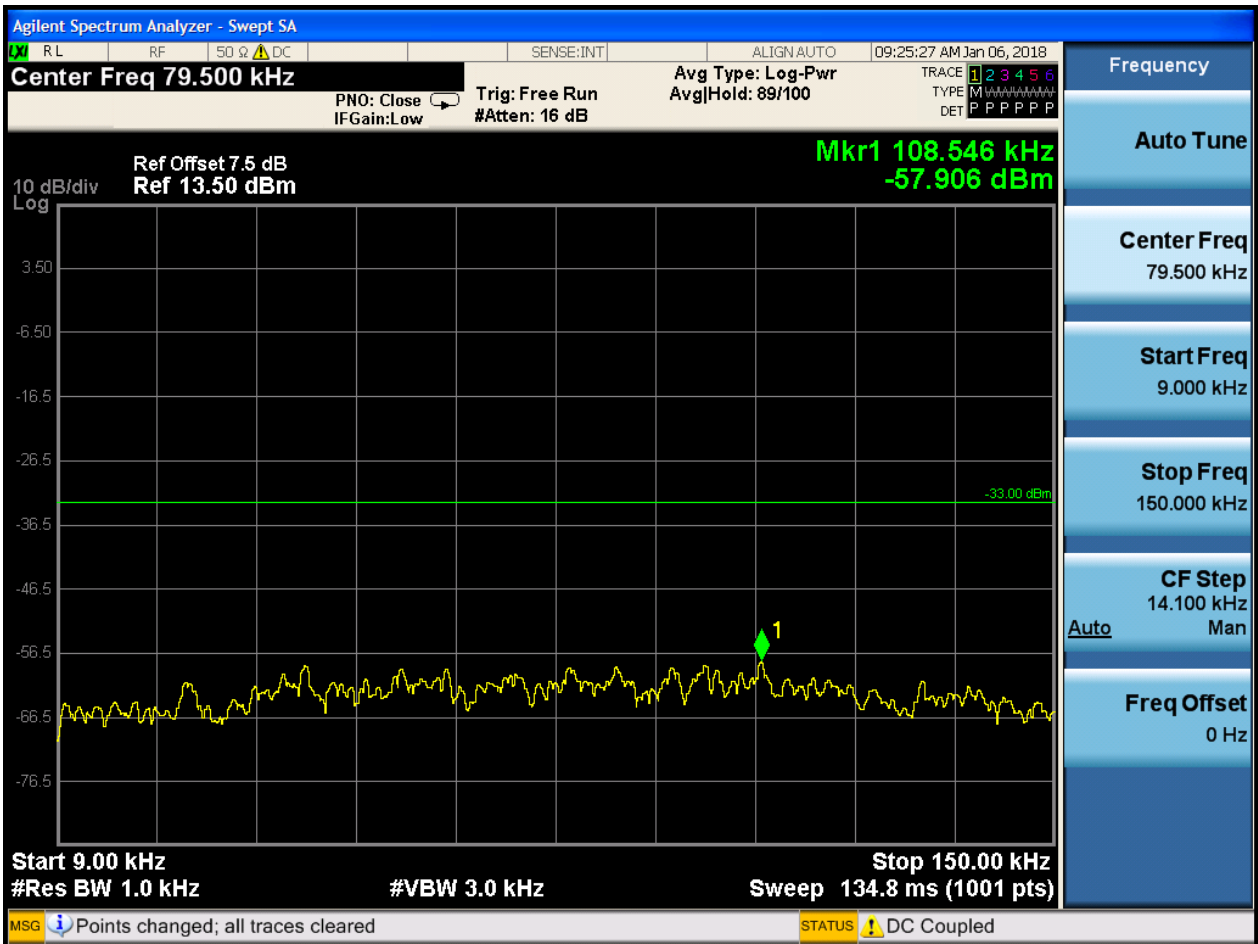


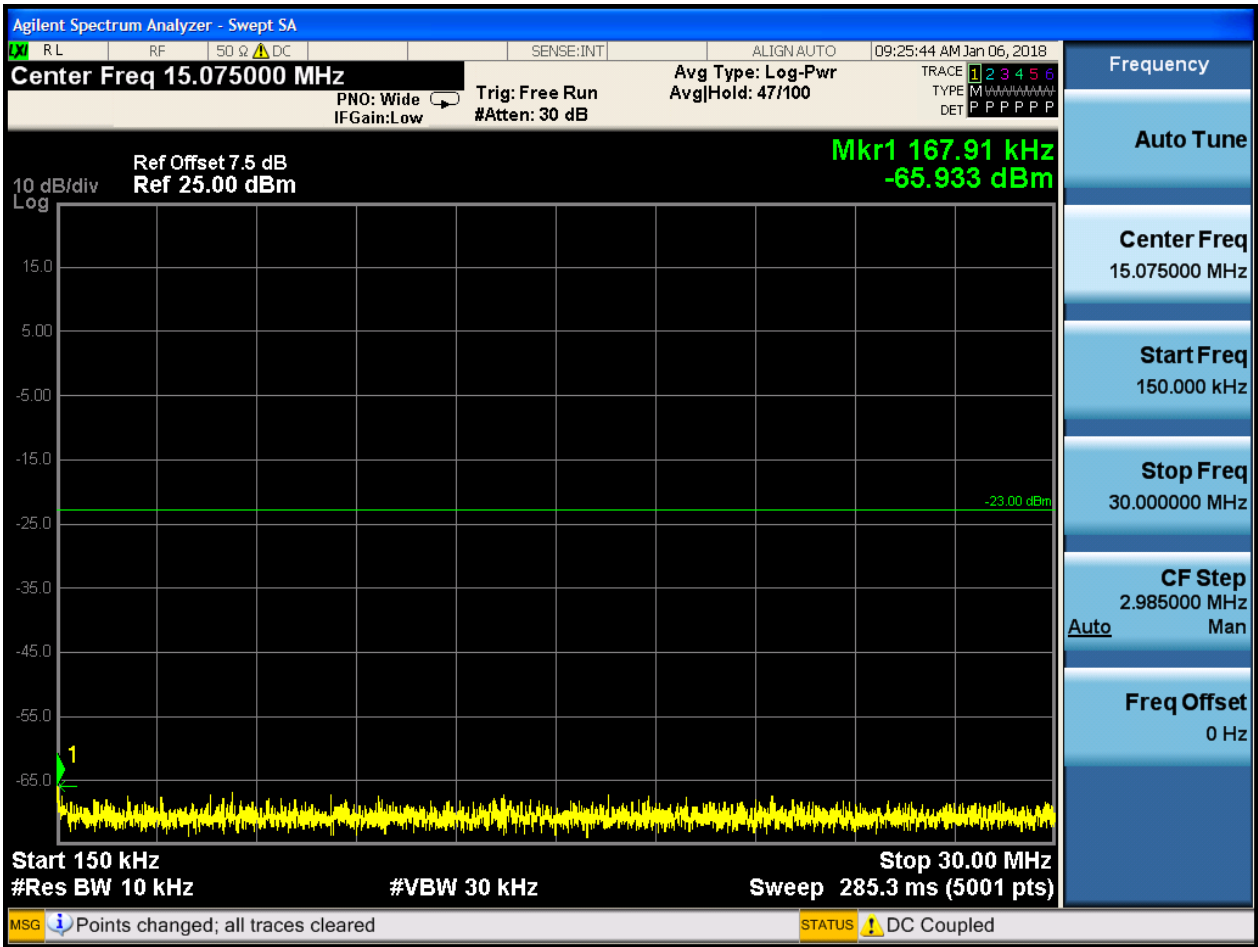


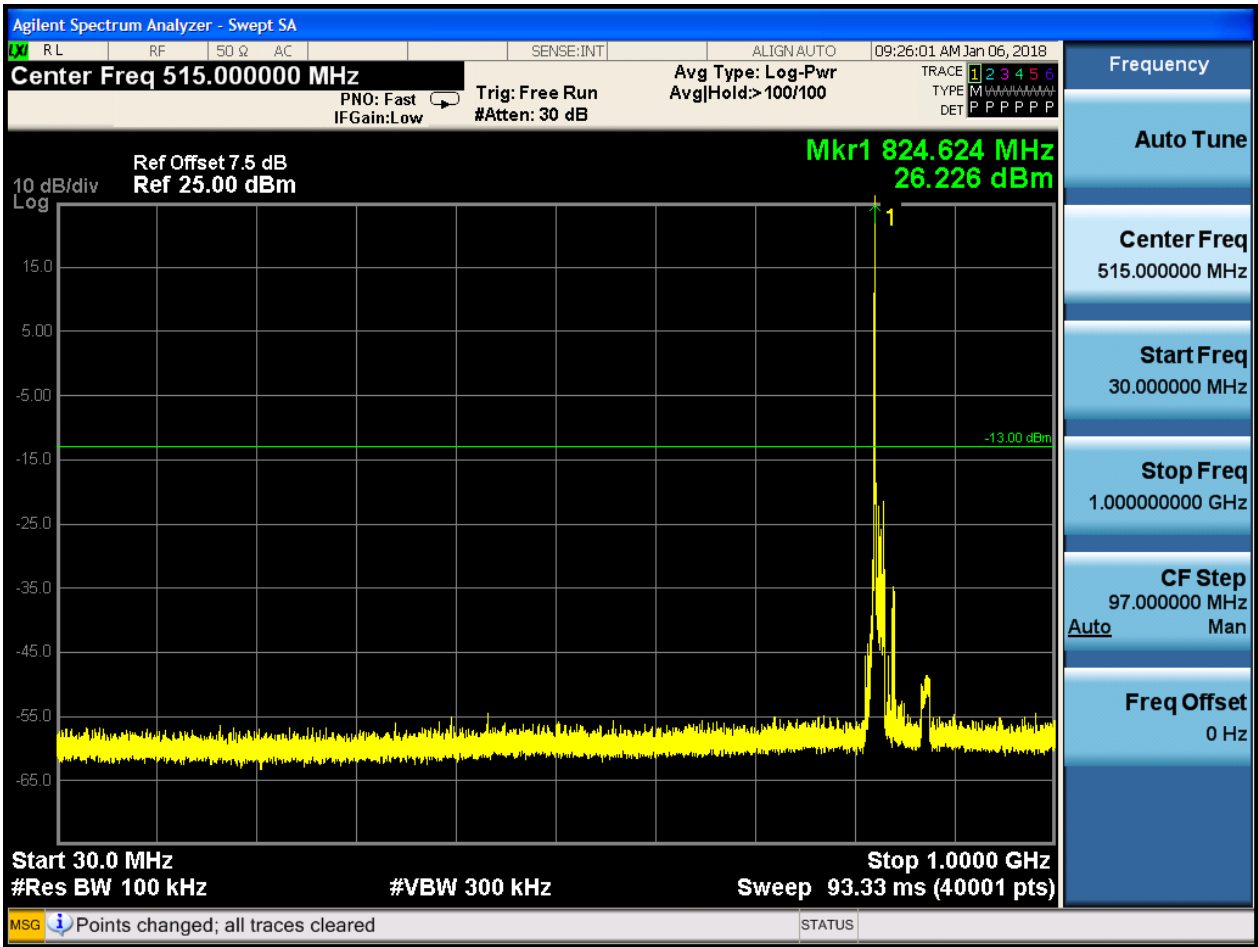
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



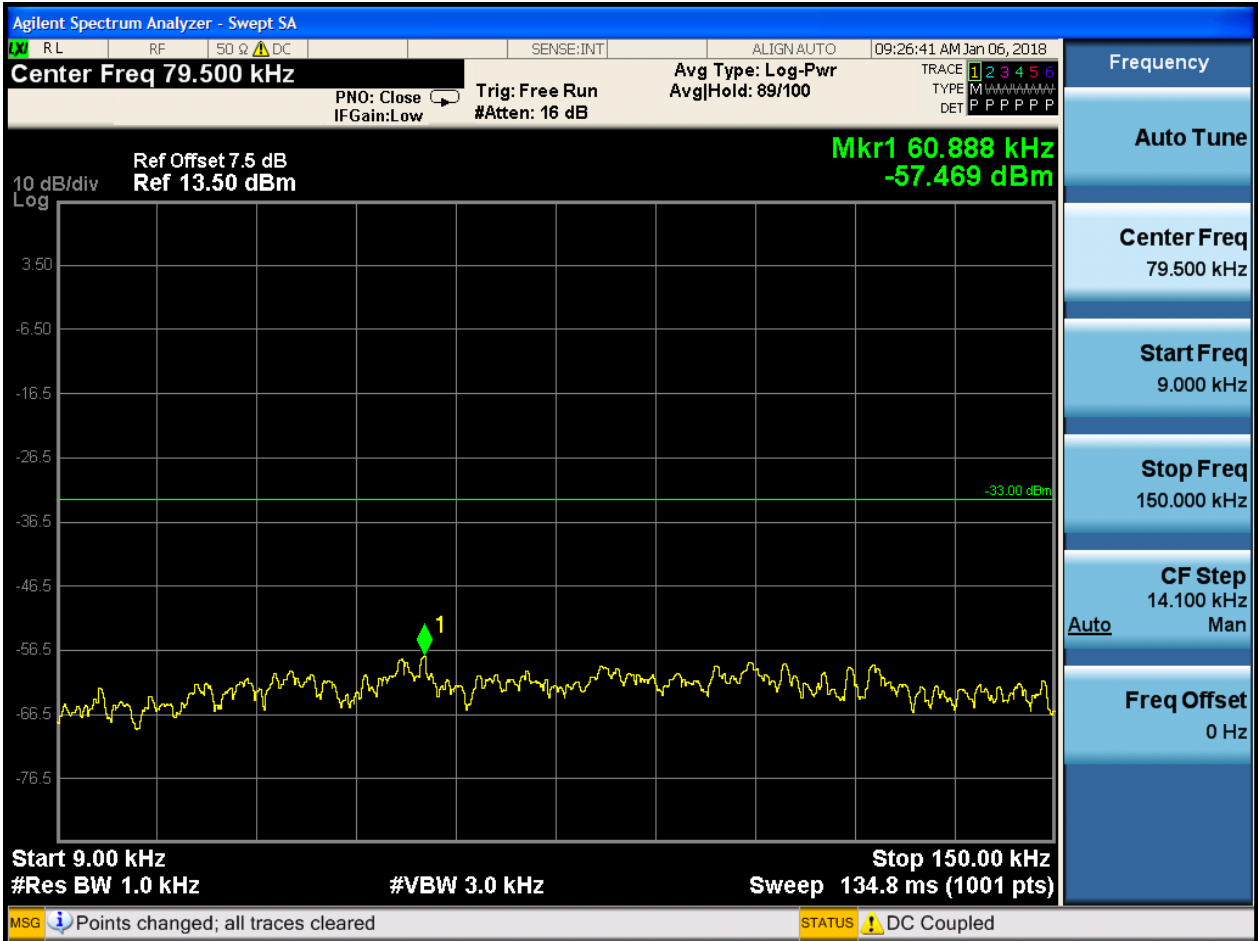


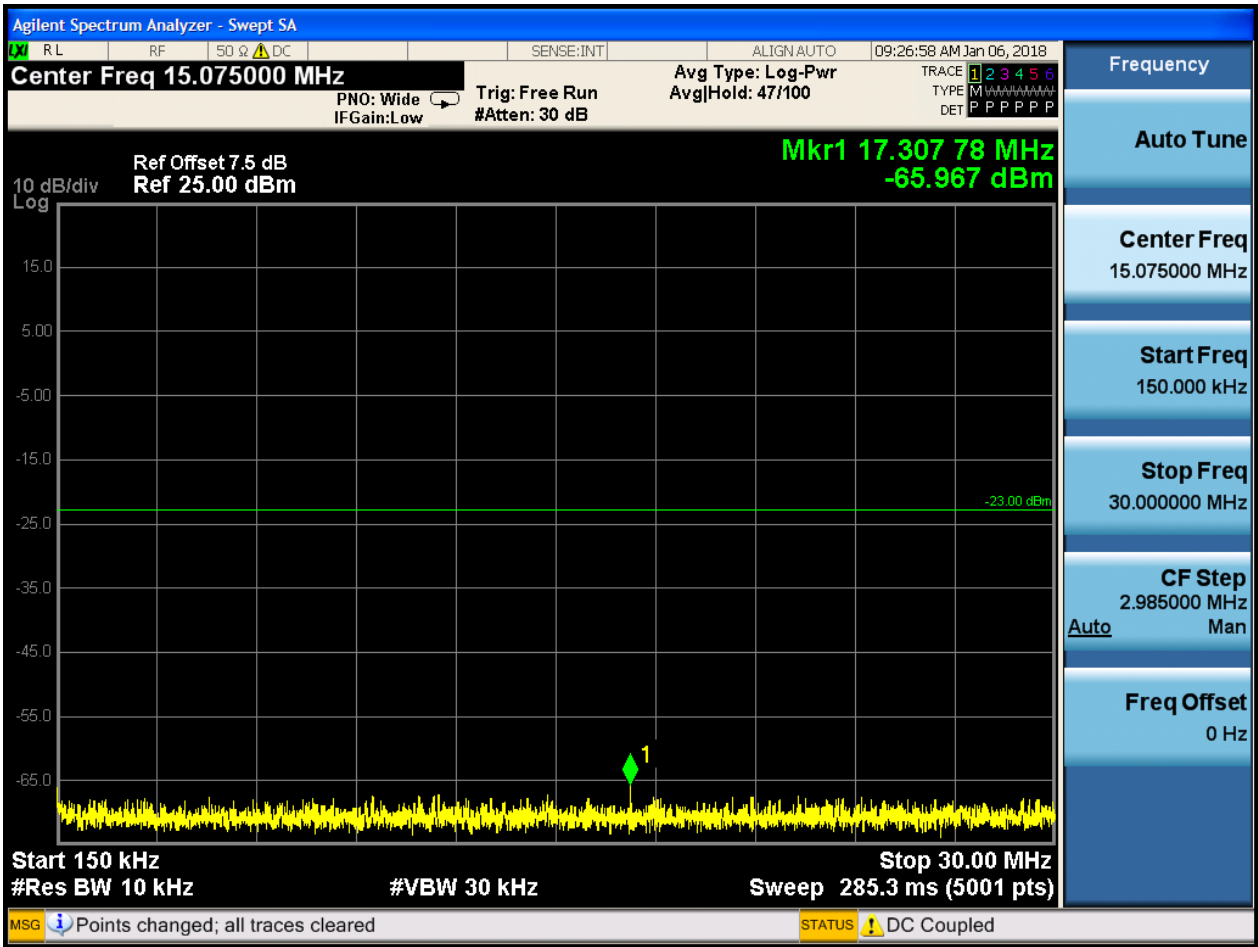


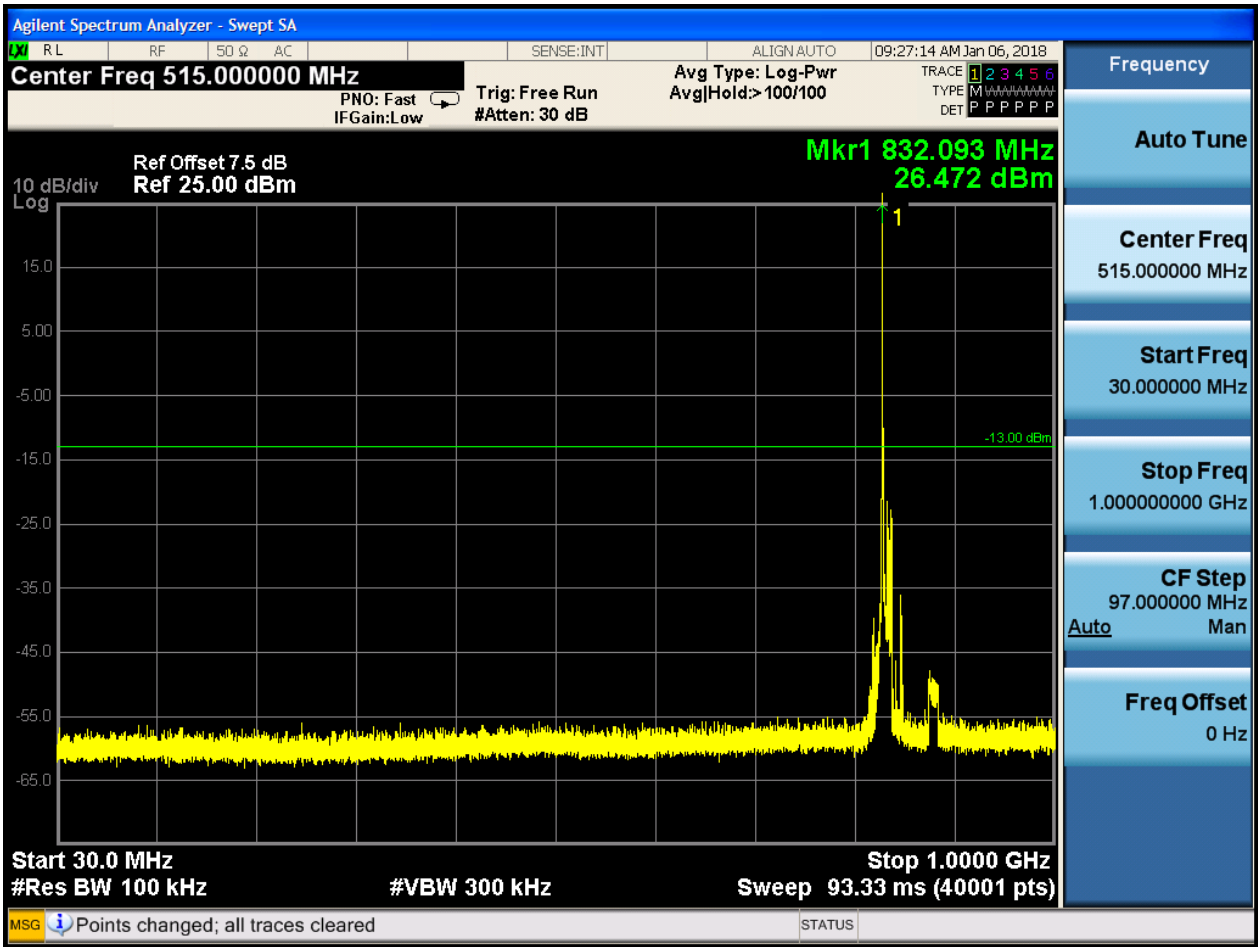


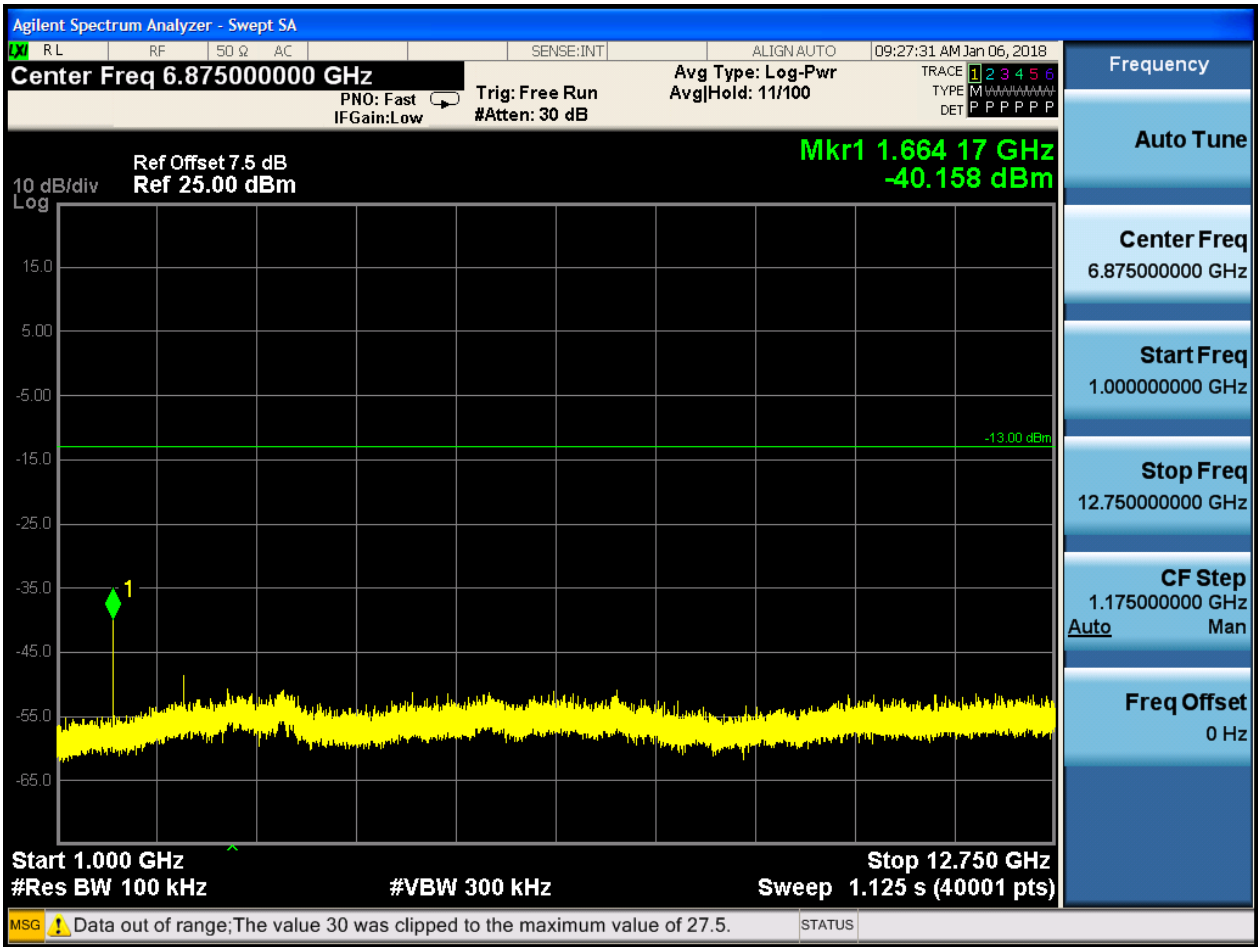
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





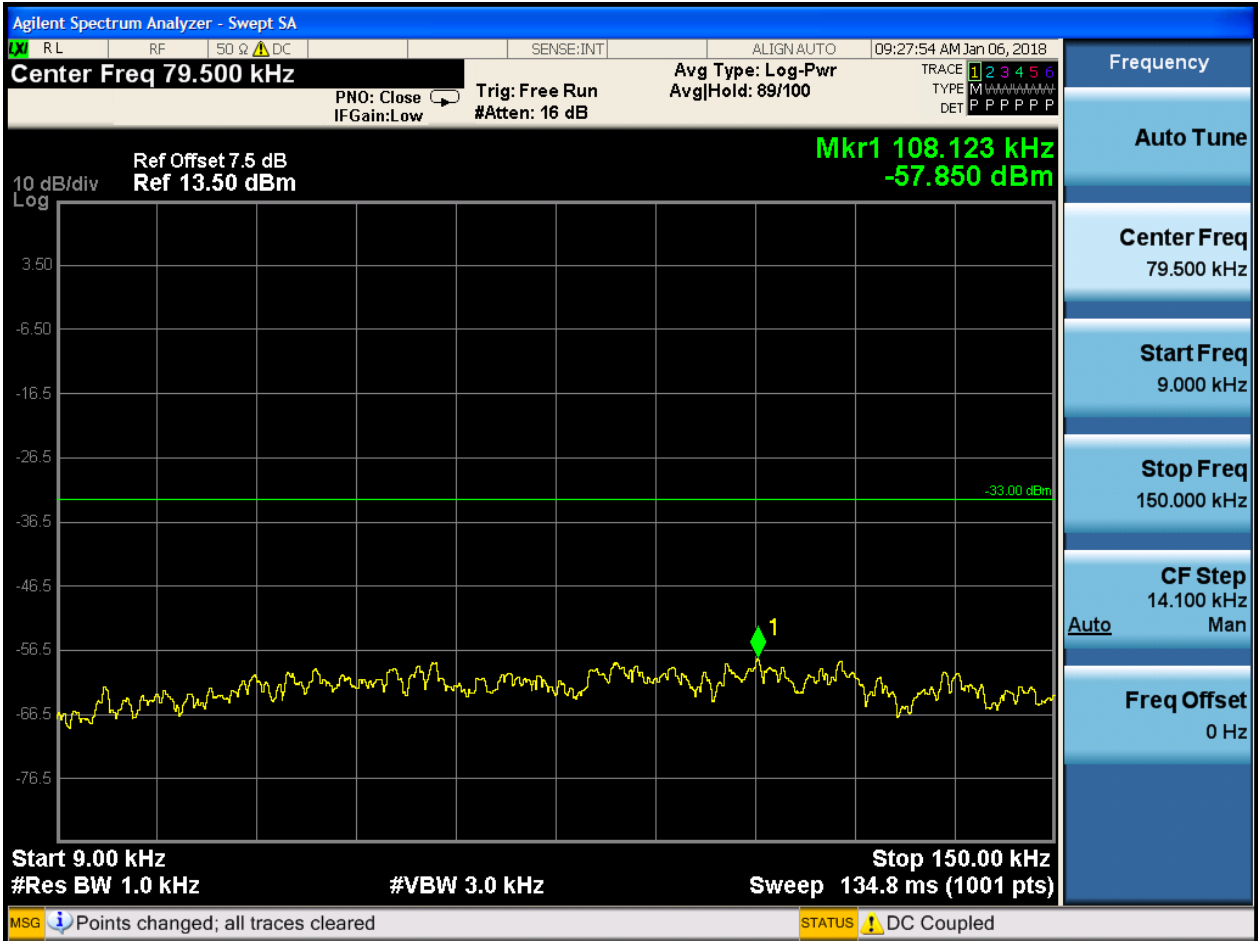


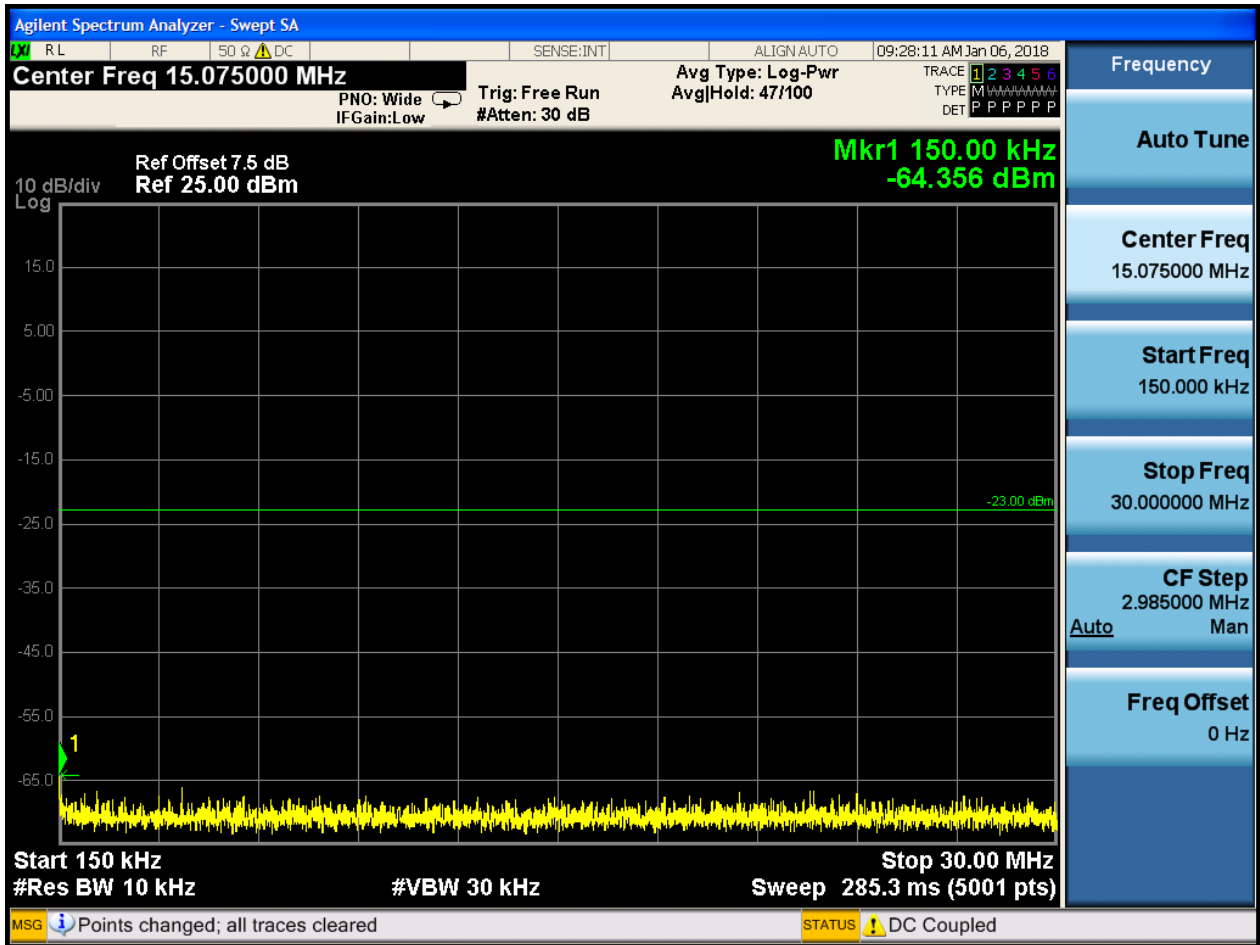


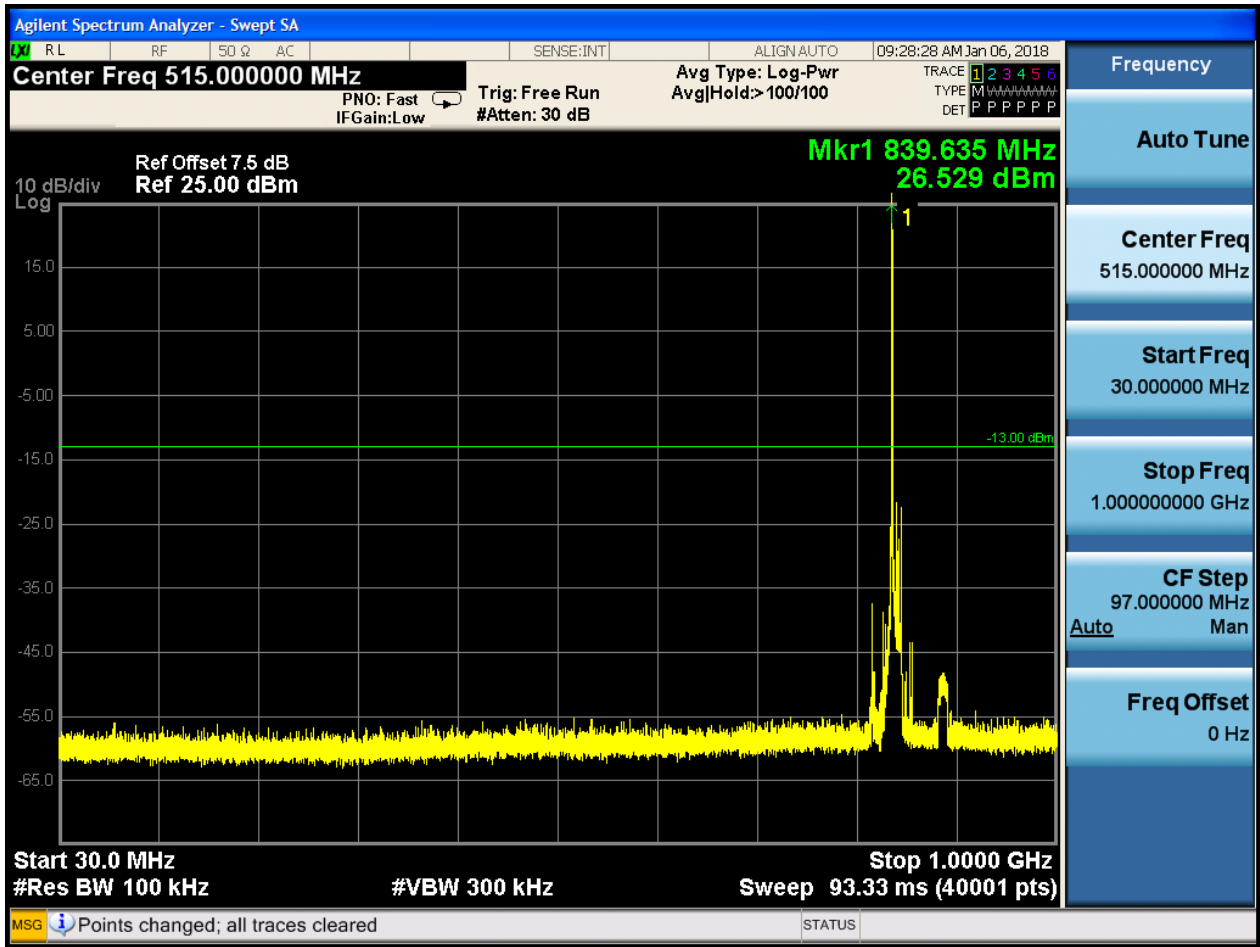


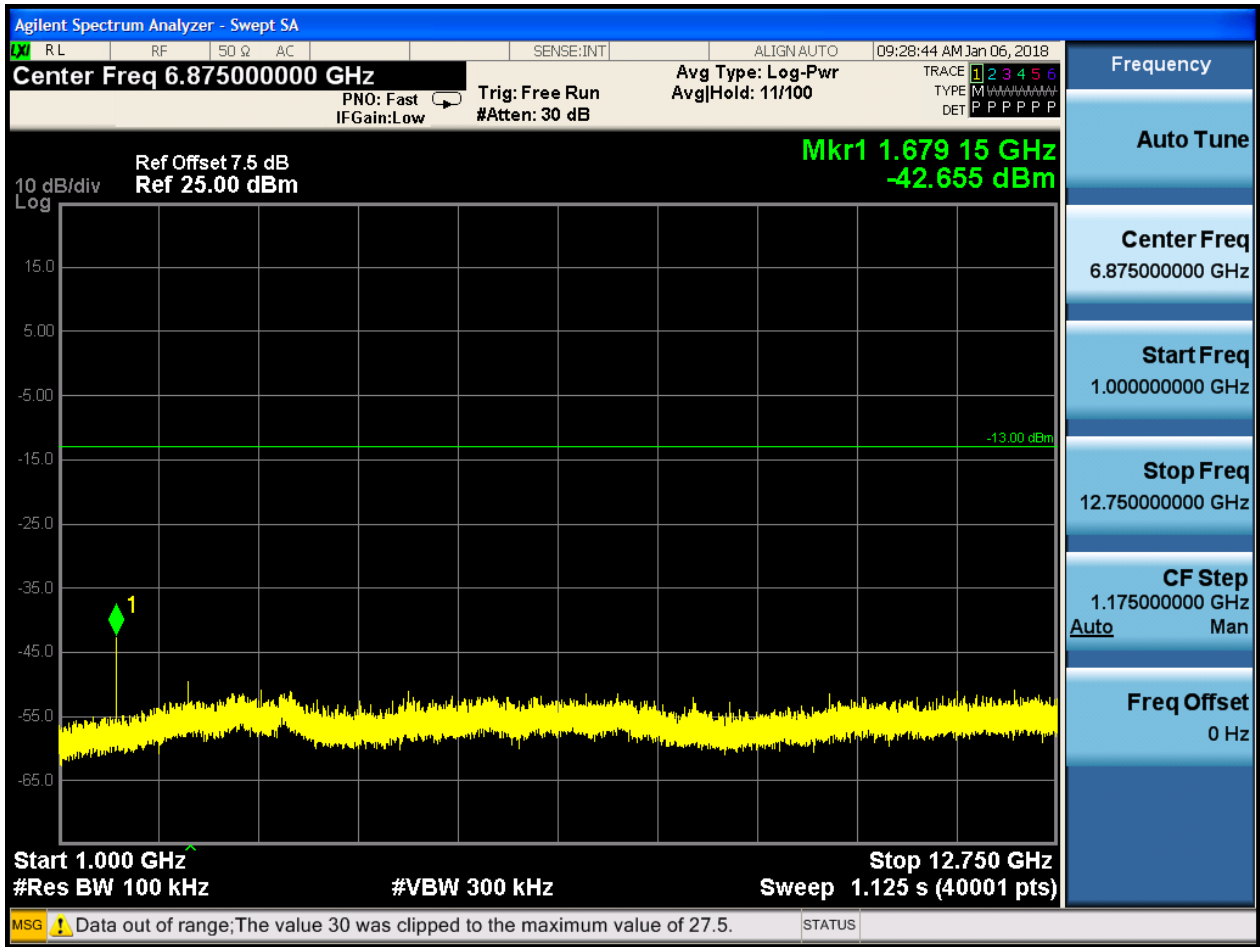
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









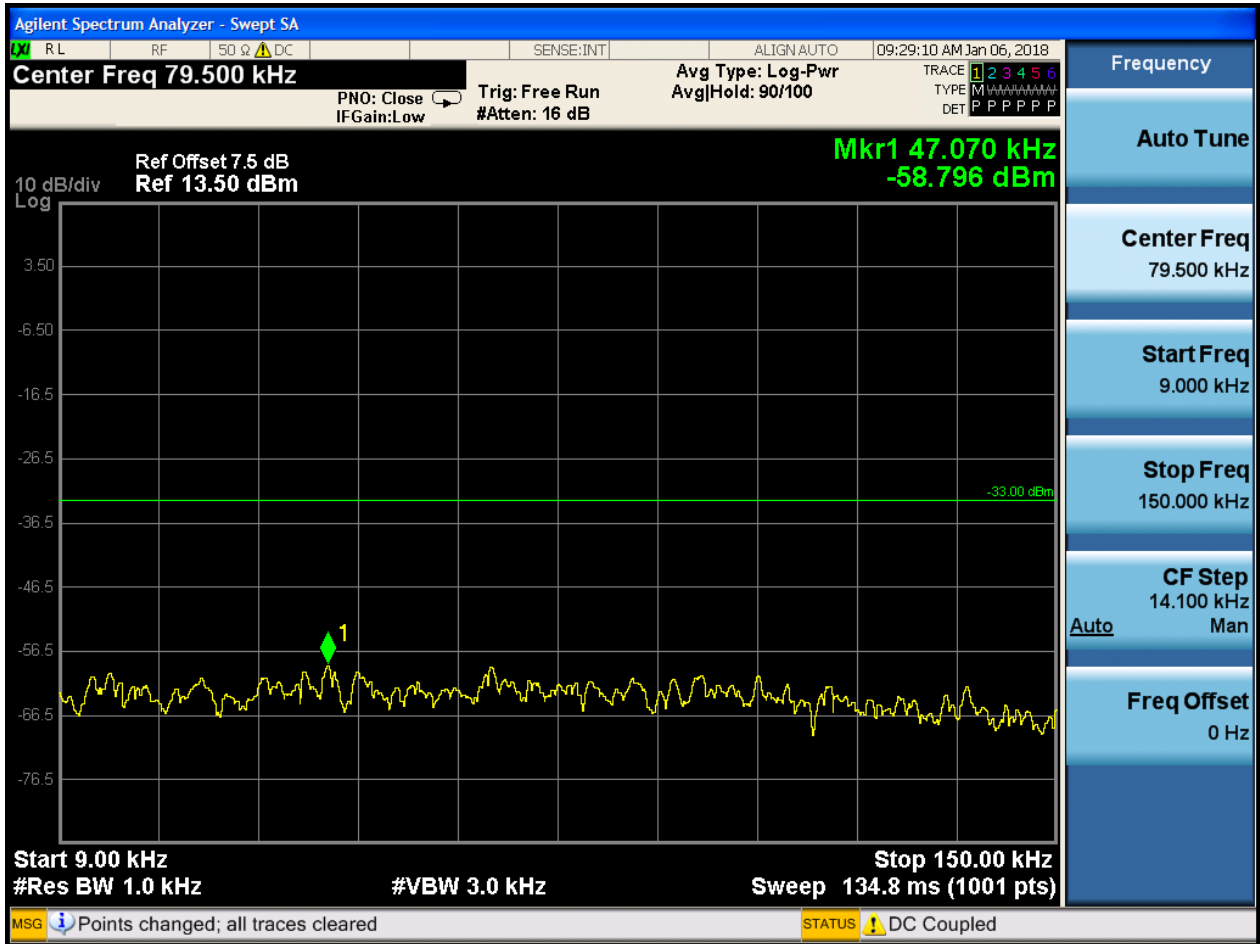


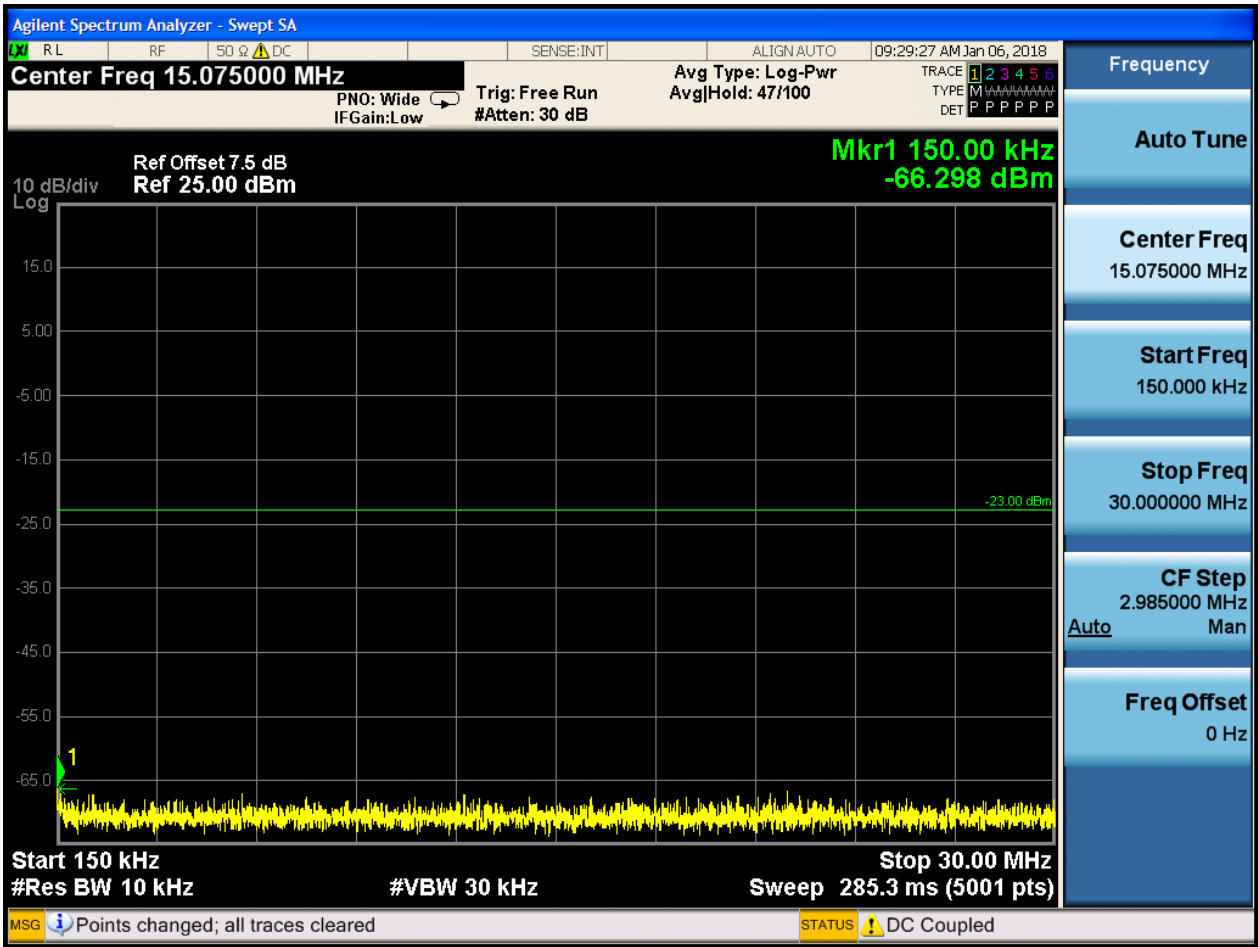
6.1.1.2 Test Mode = LTE/TM2

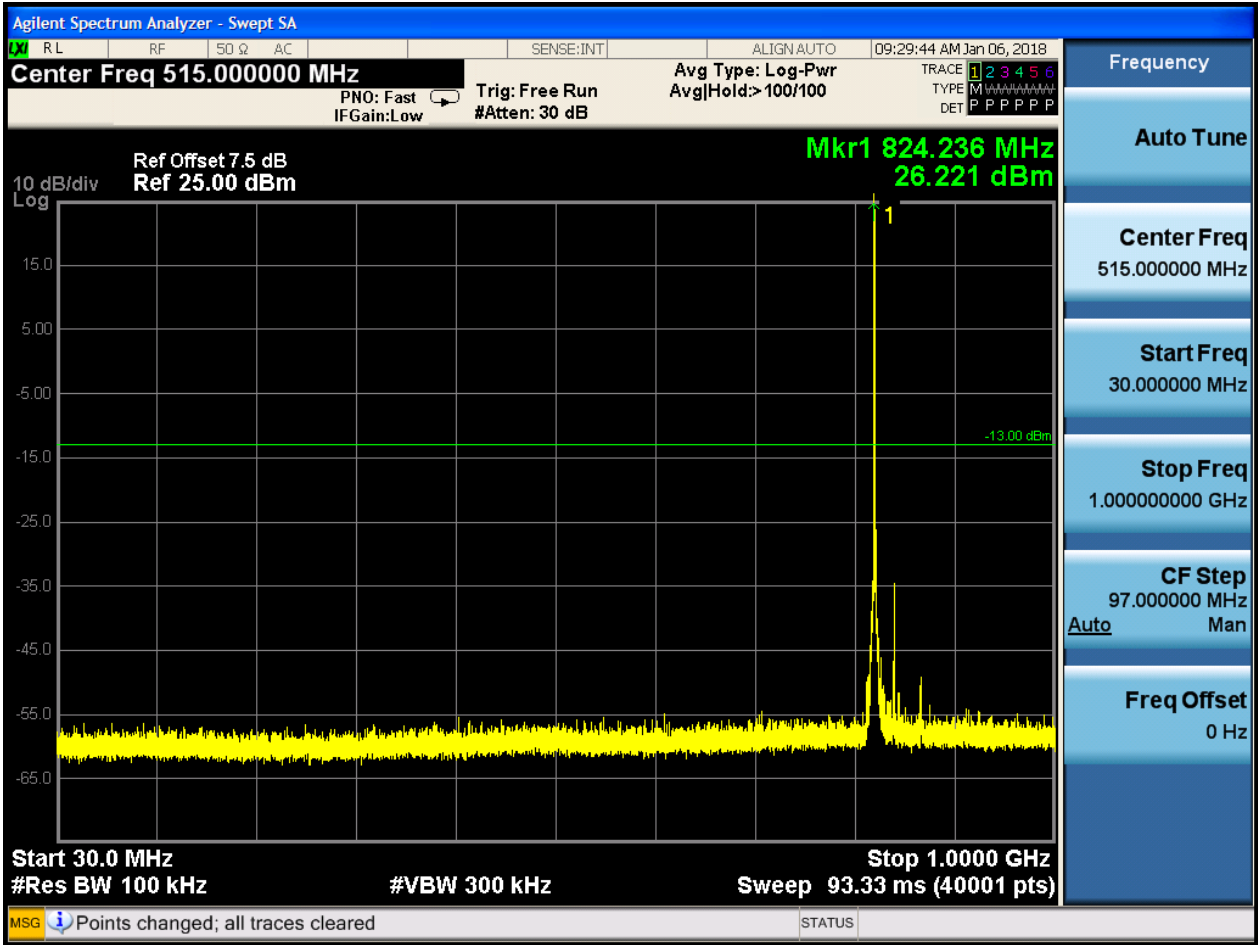
6.1.1.2.1 Test Bandwidth = 1.4

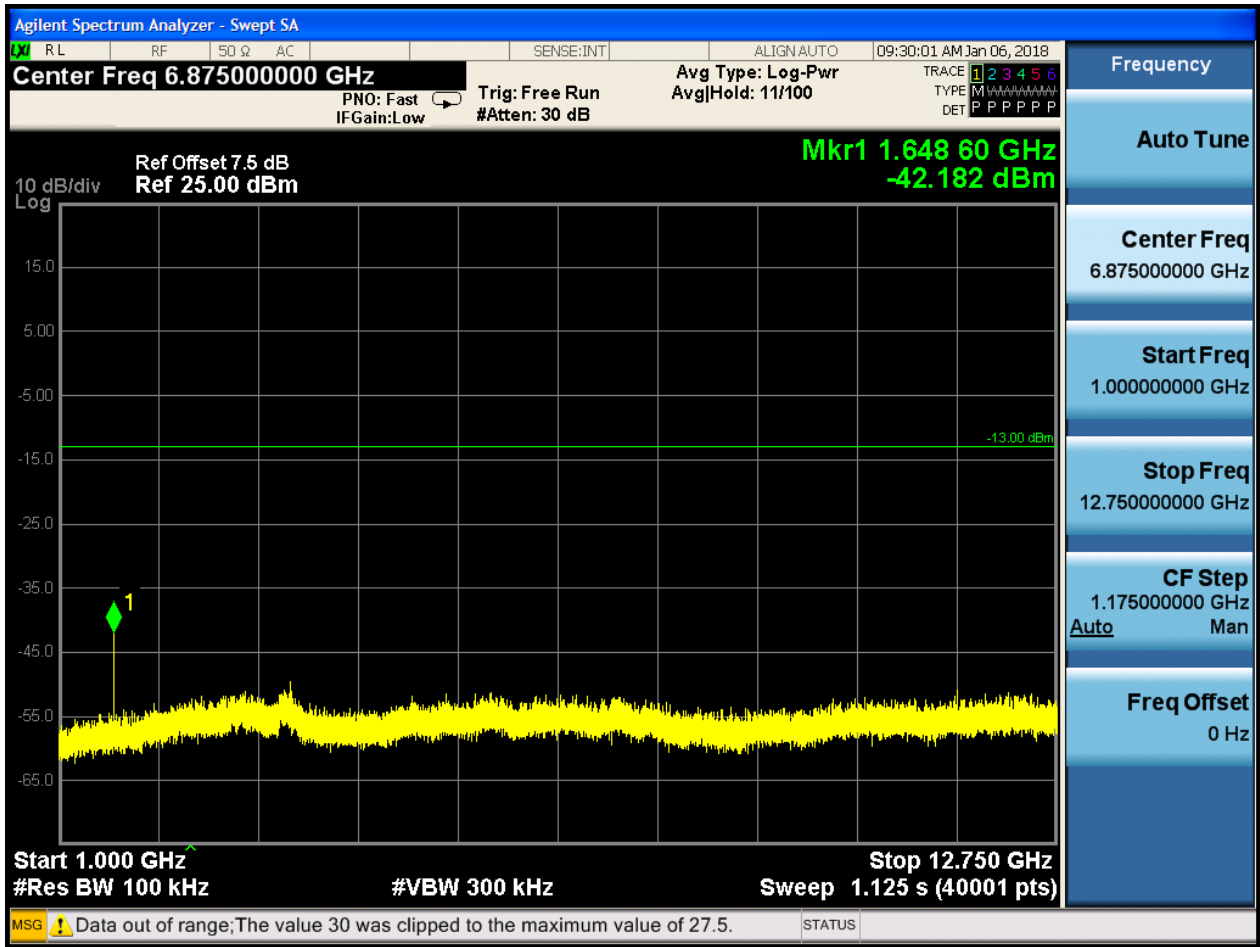
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





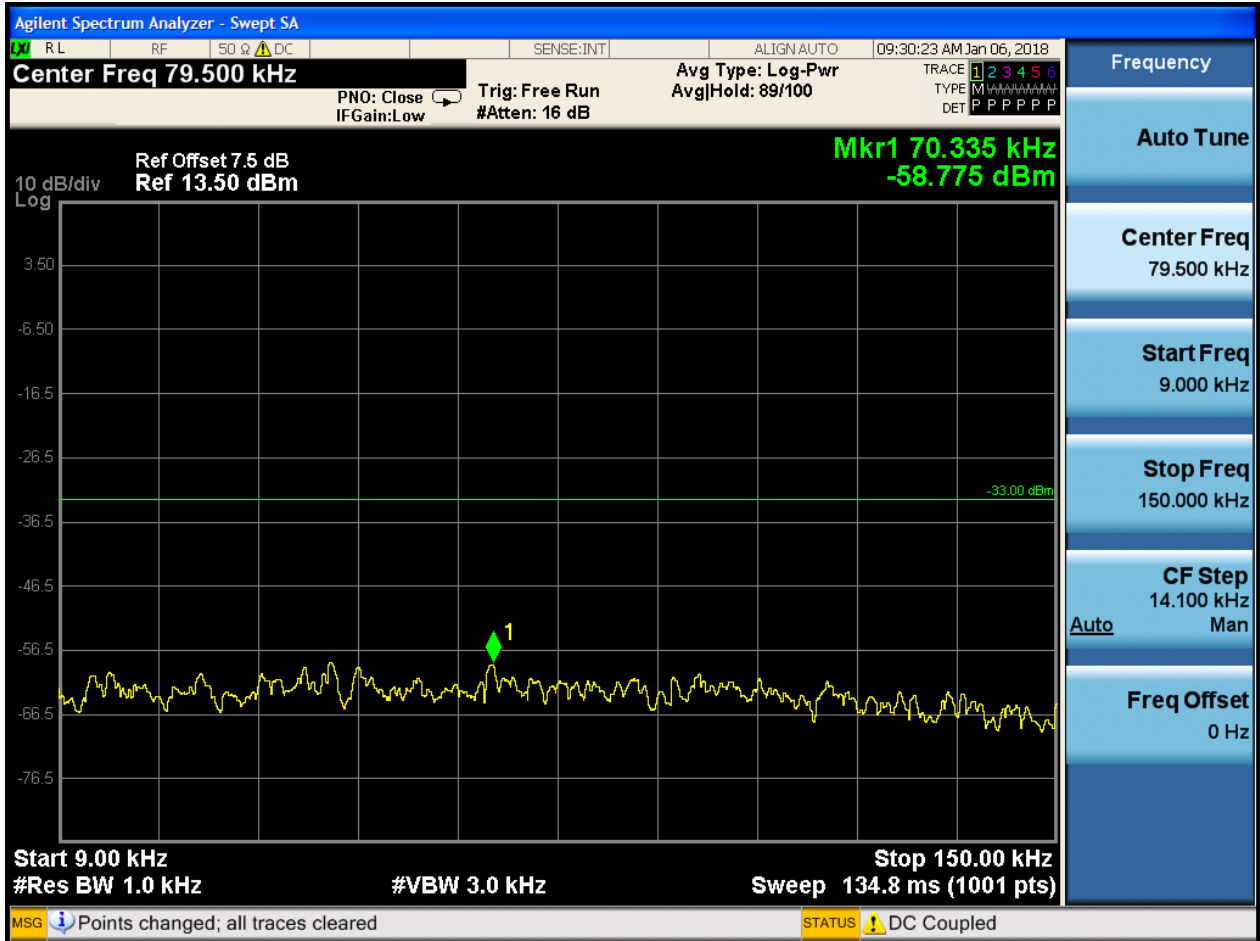




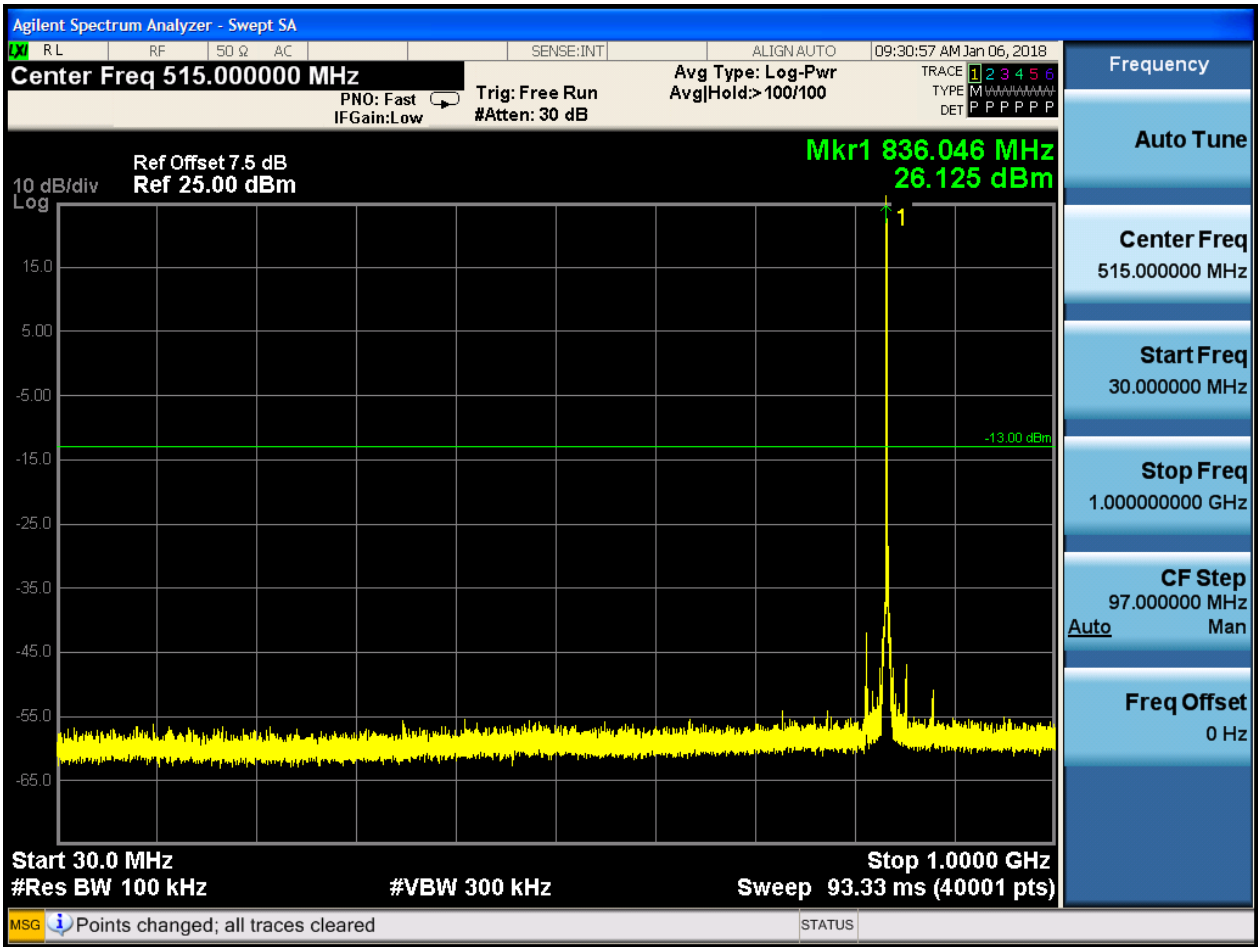


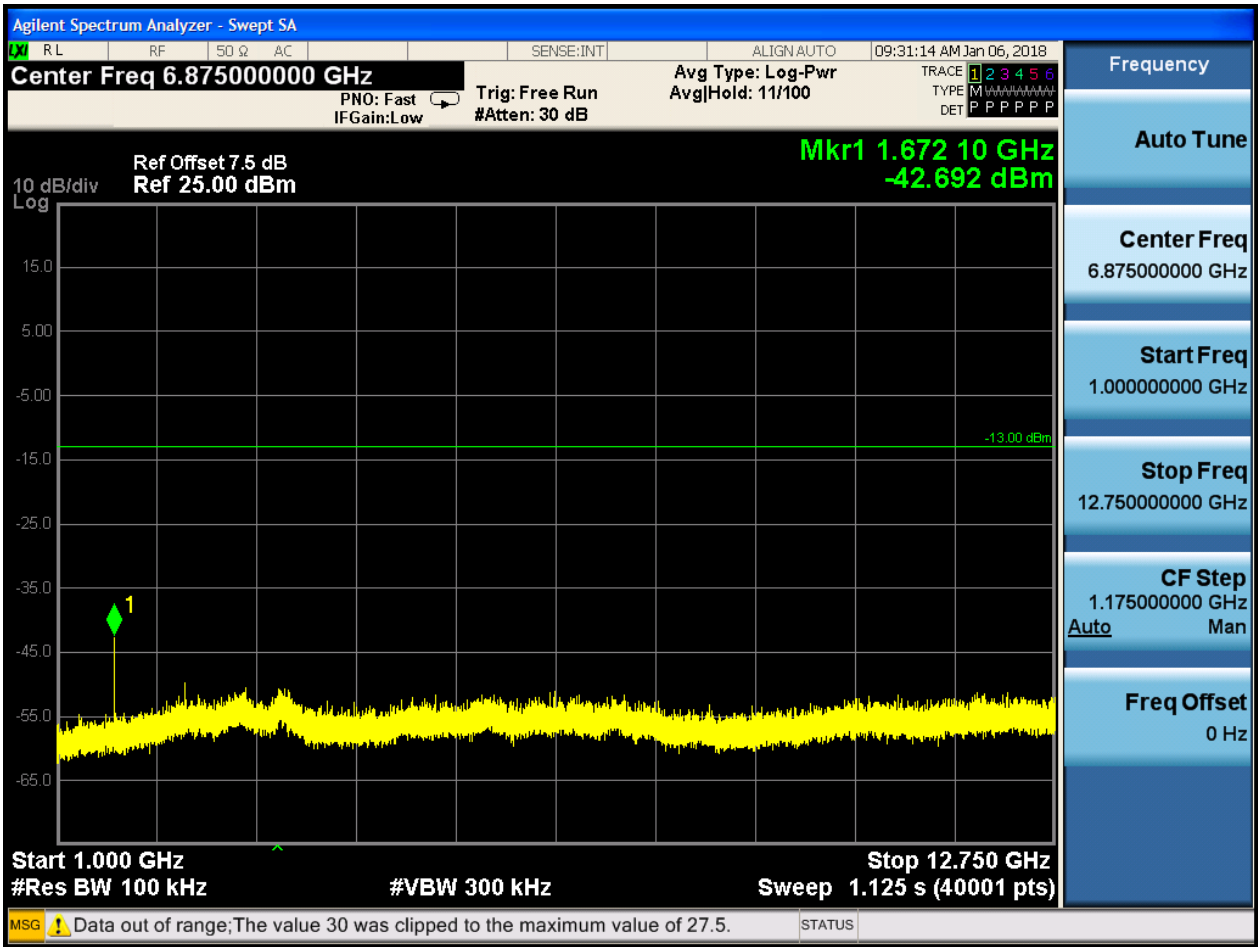
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





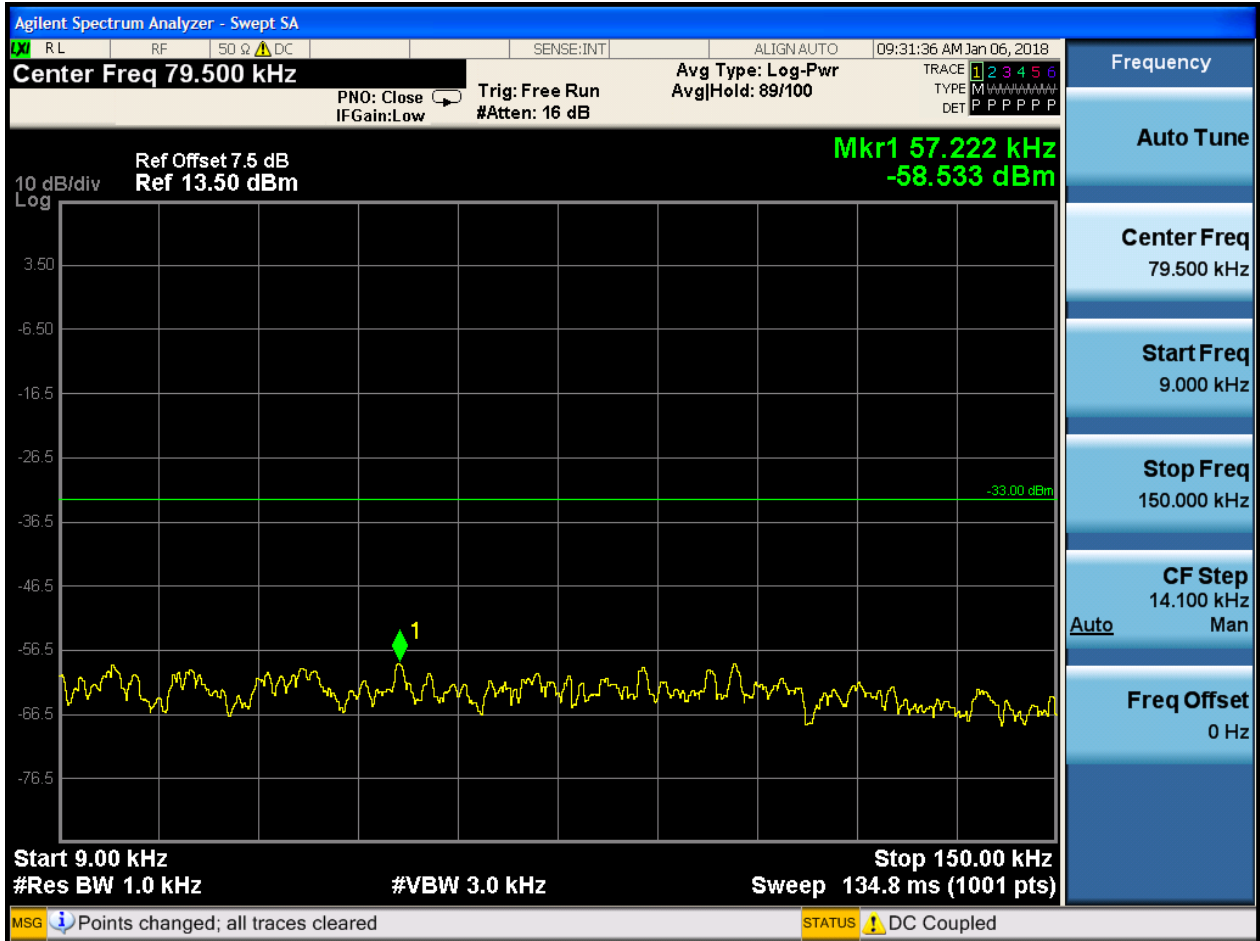


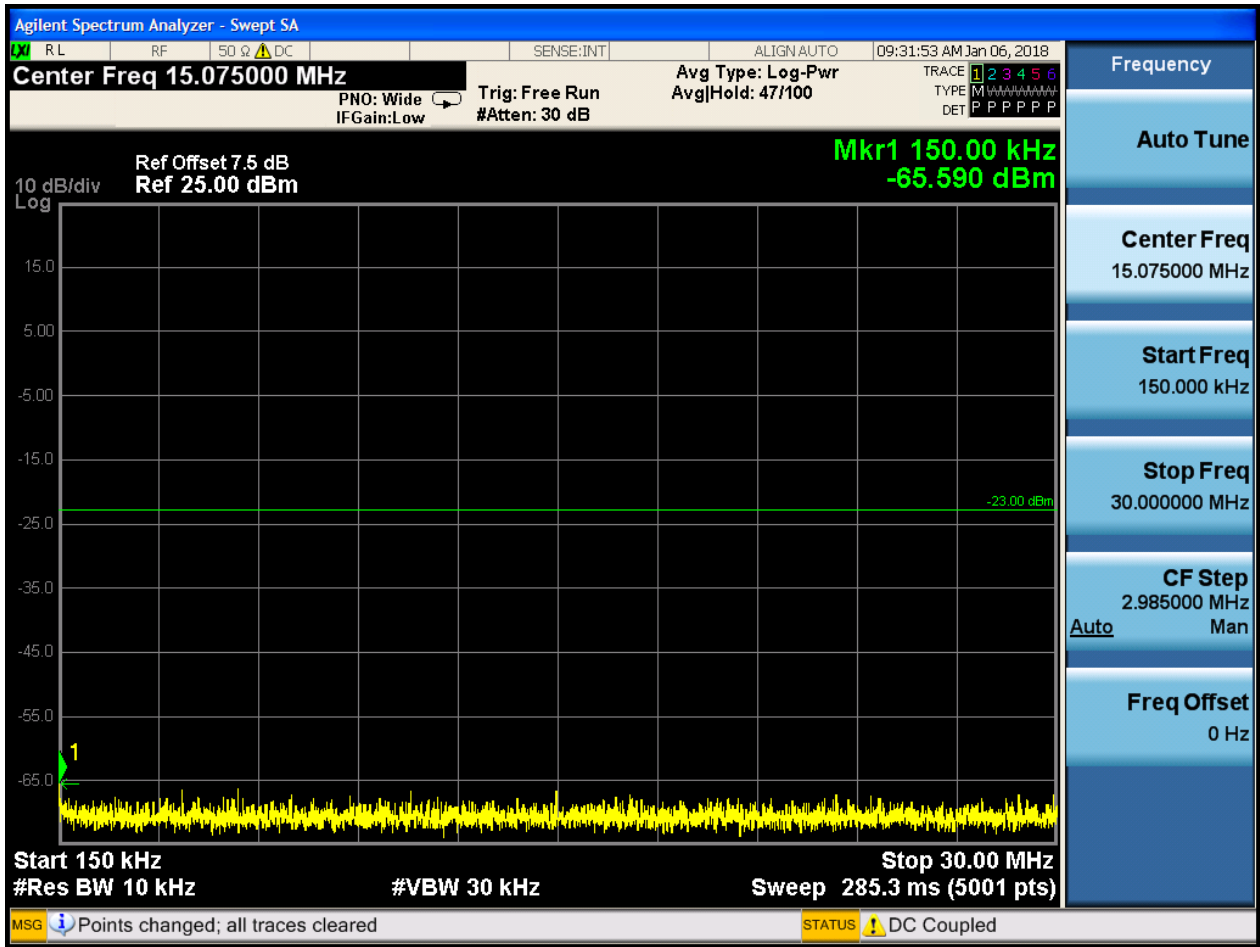


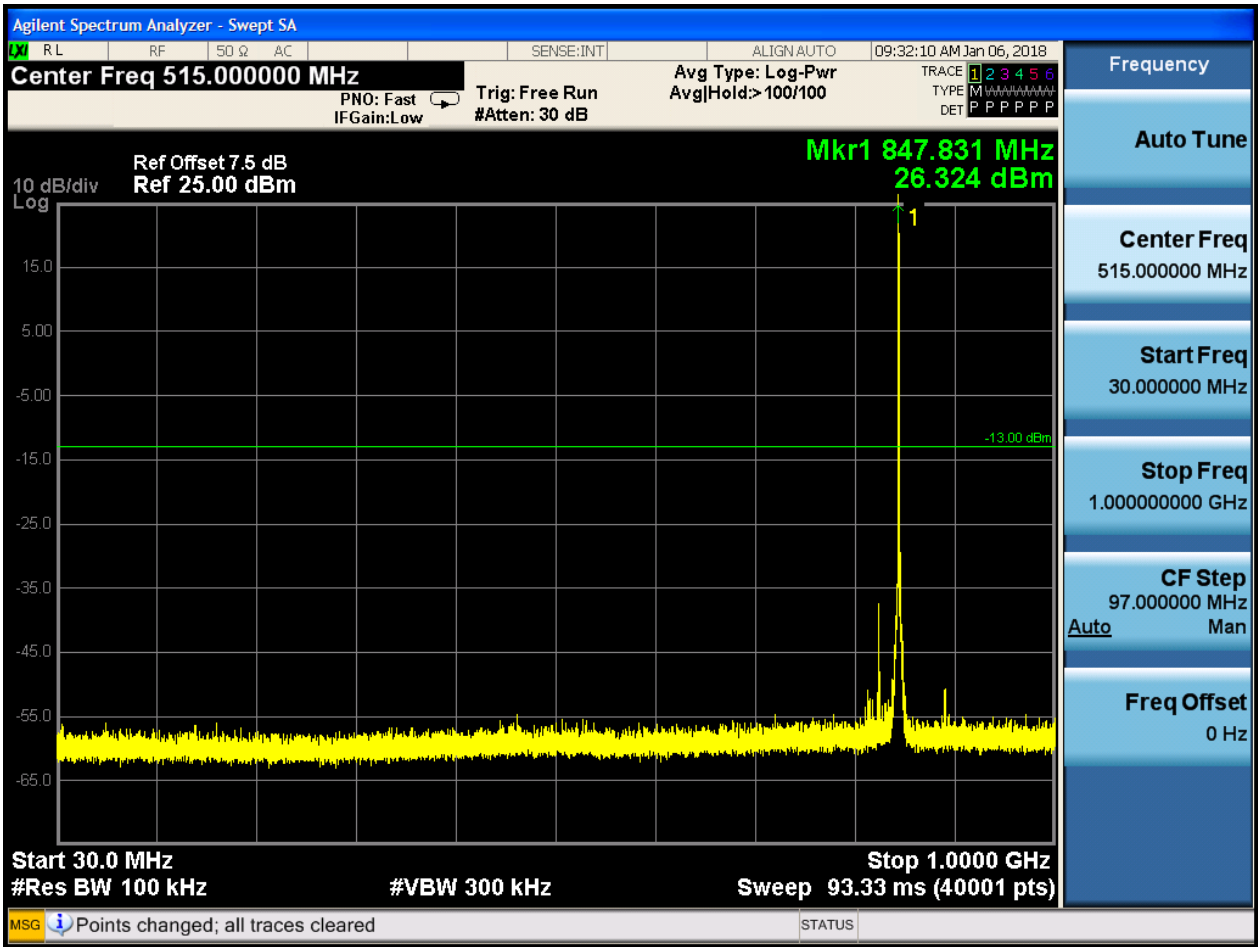


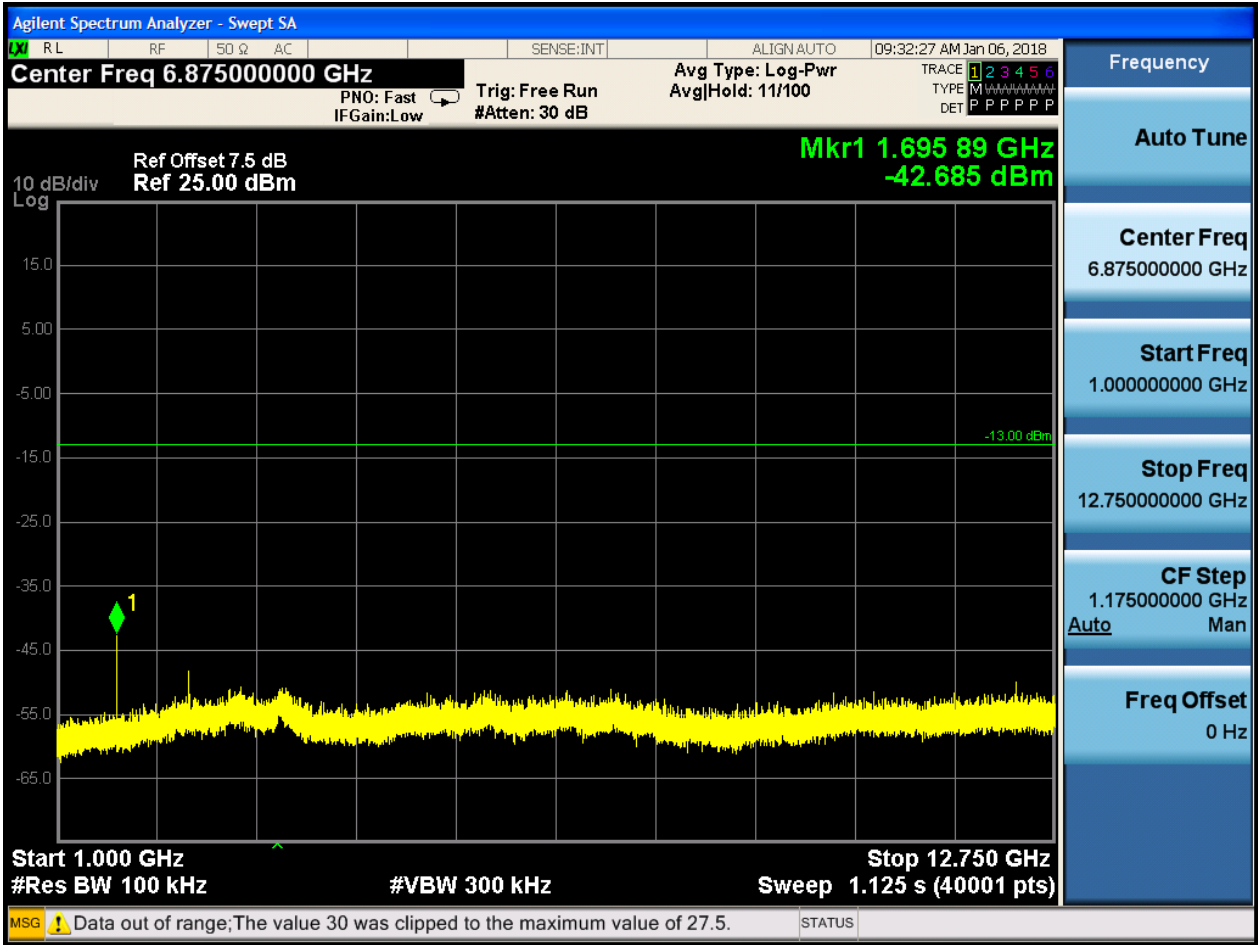
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







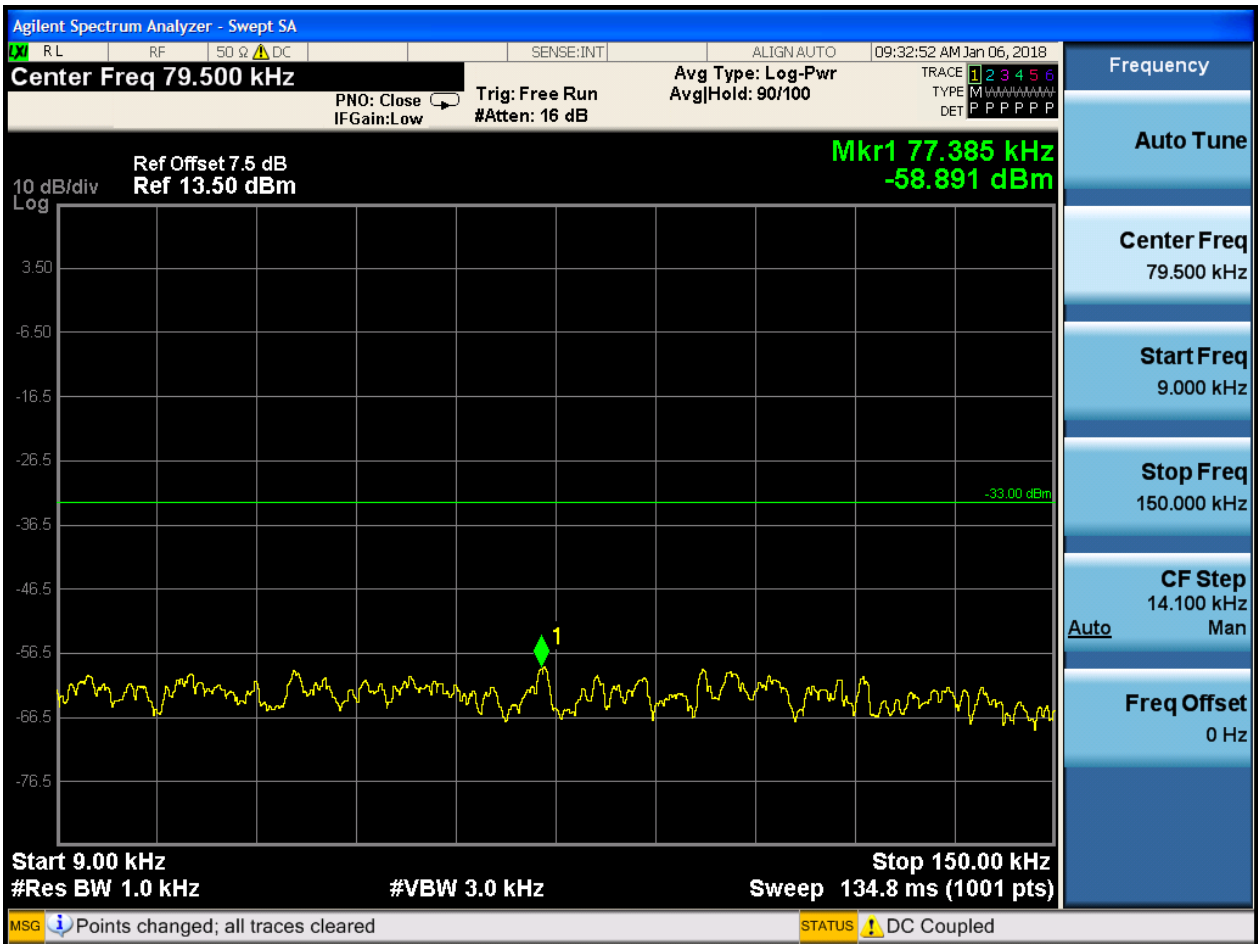


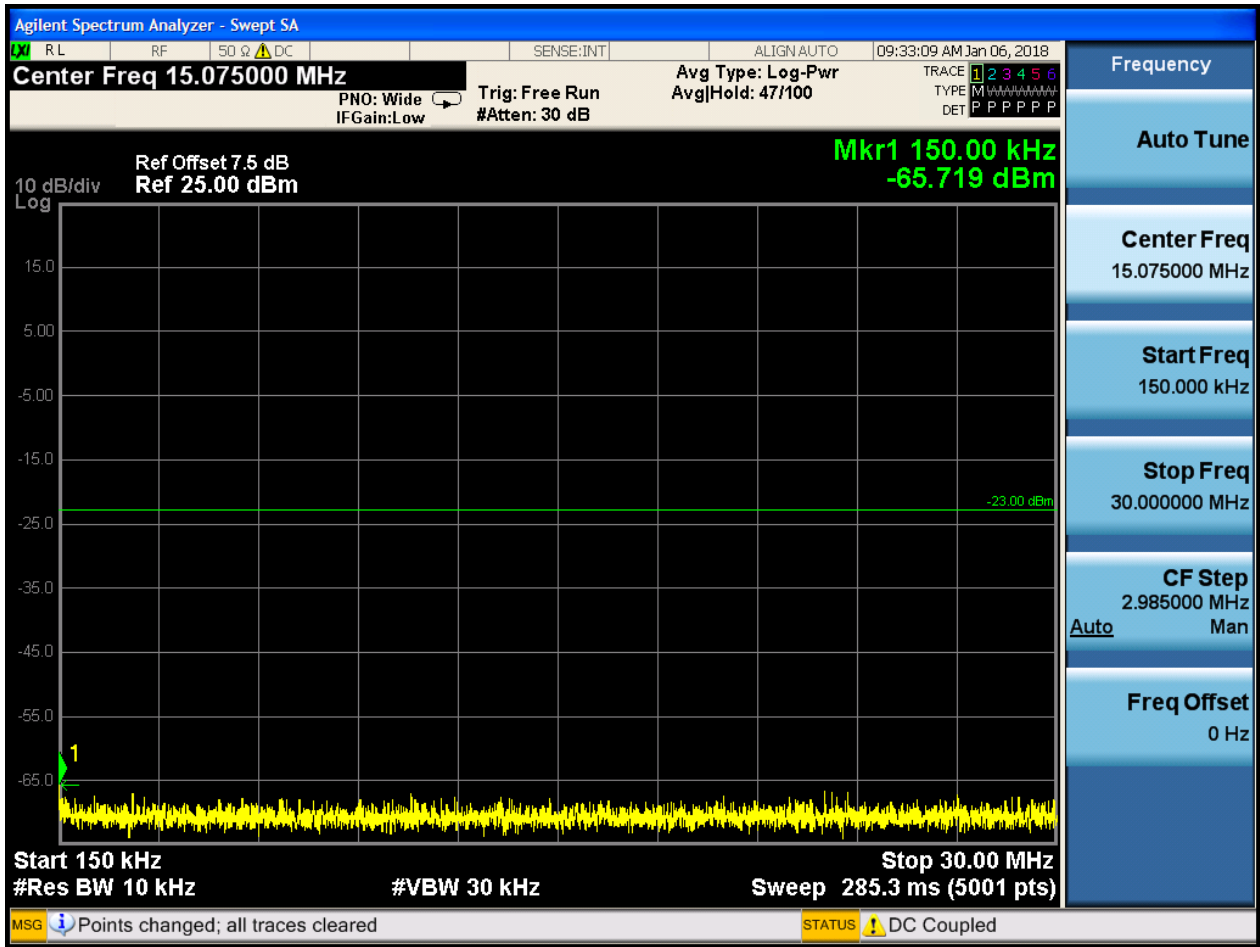


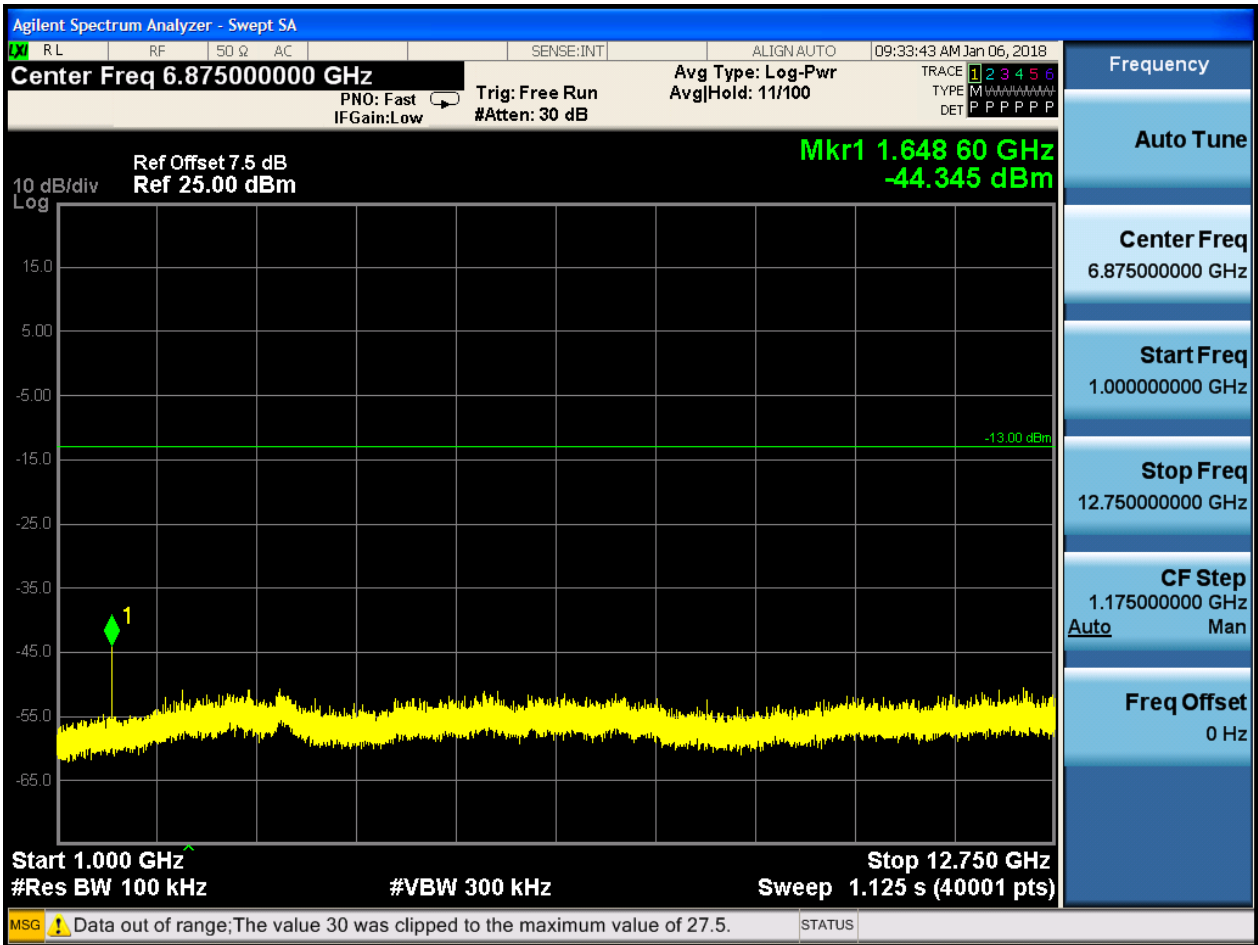
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



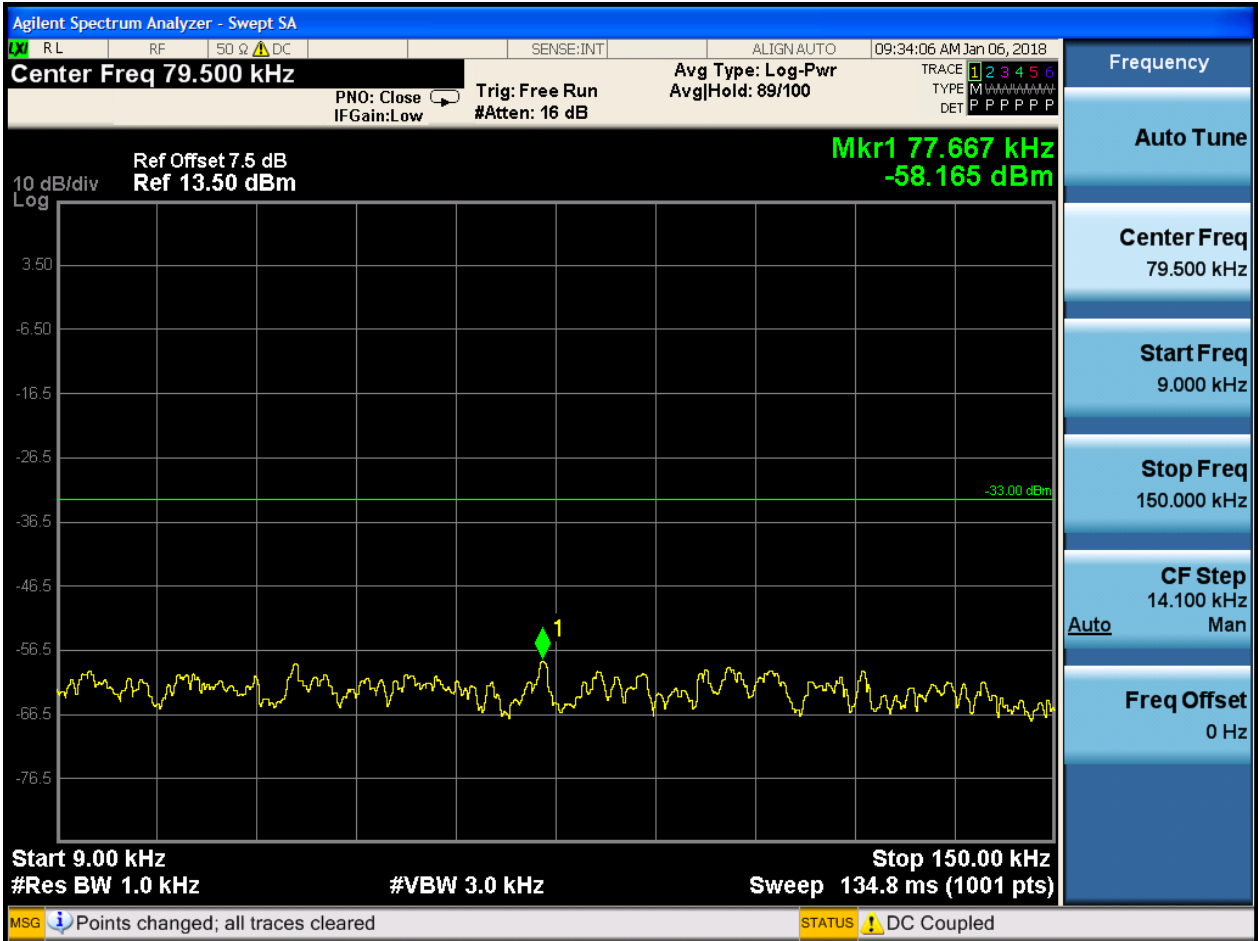


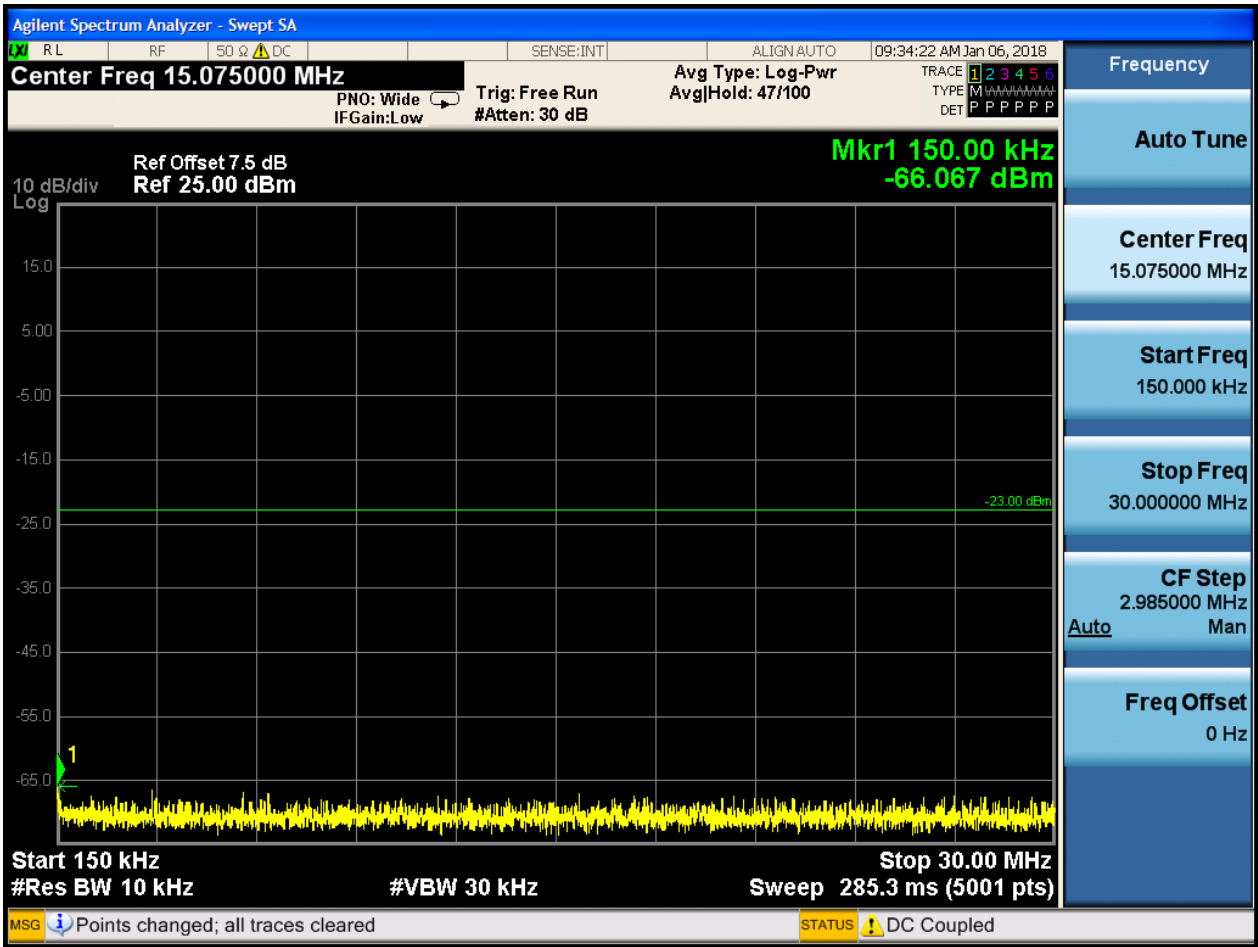


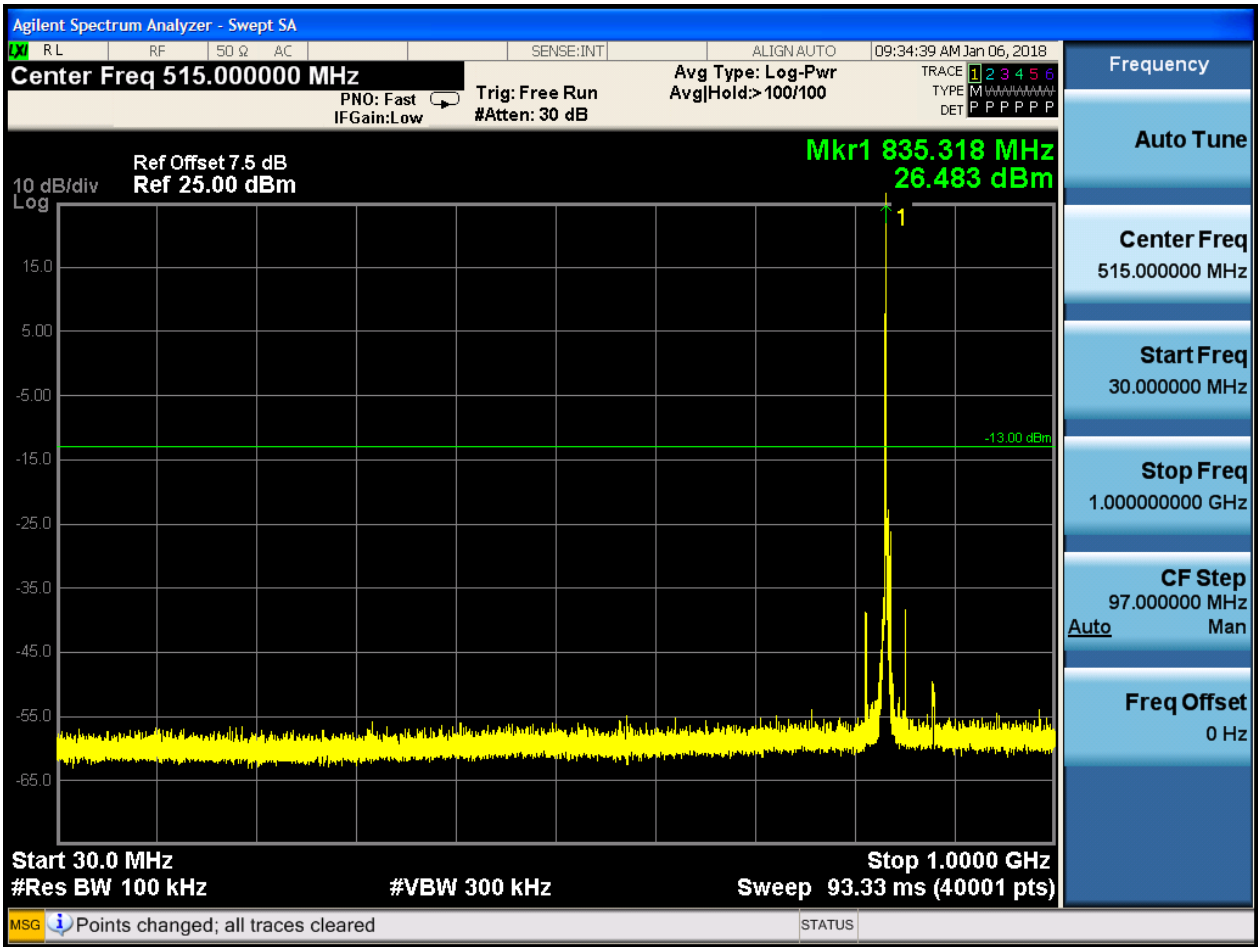


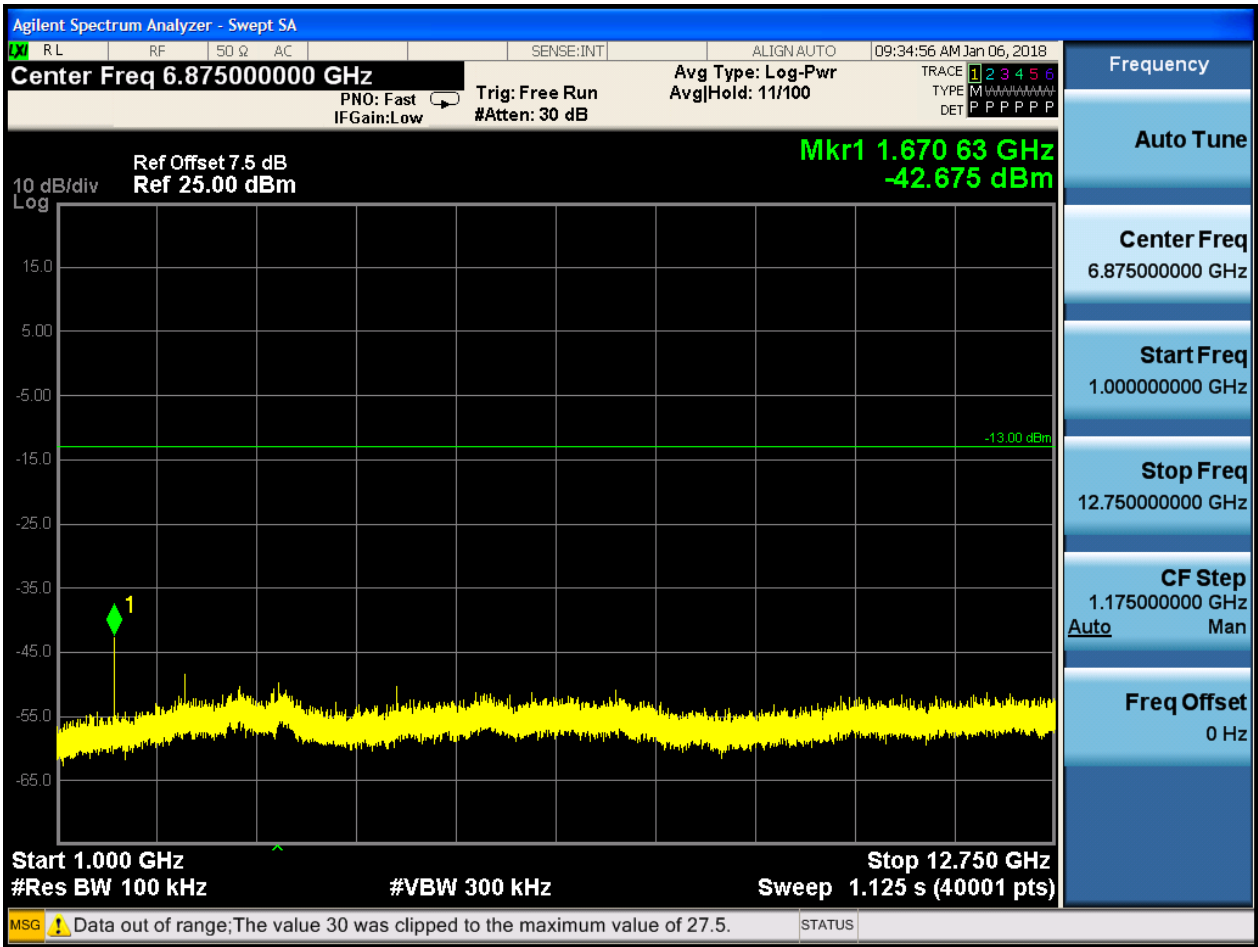
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0





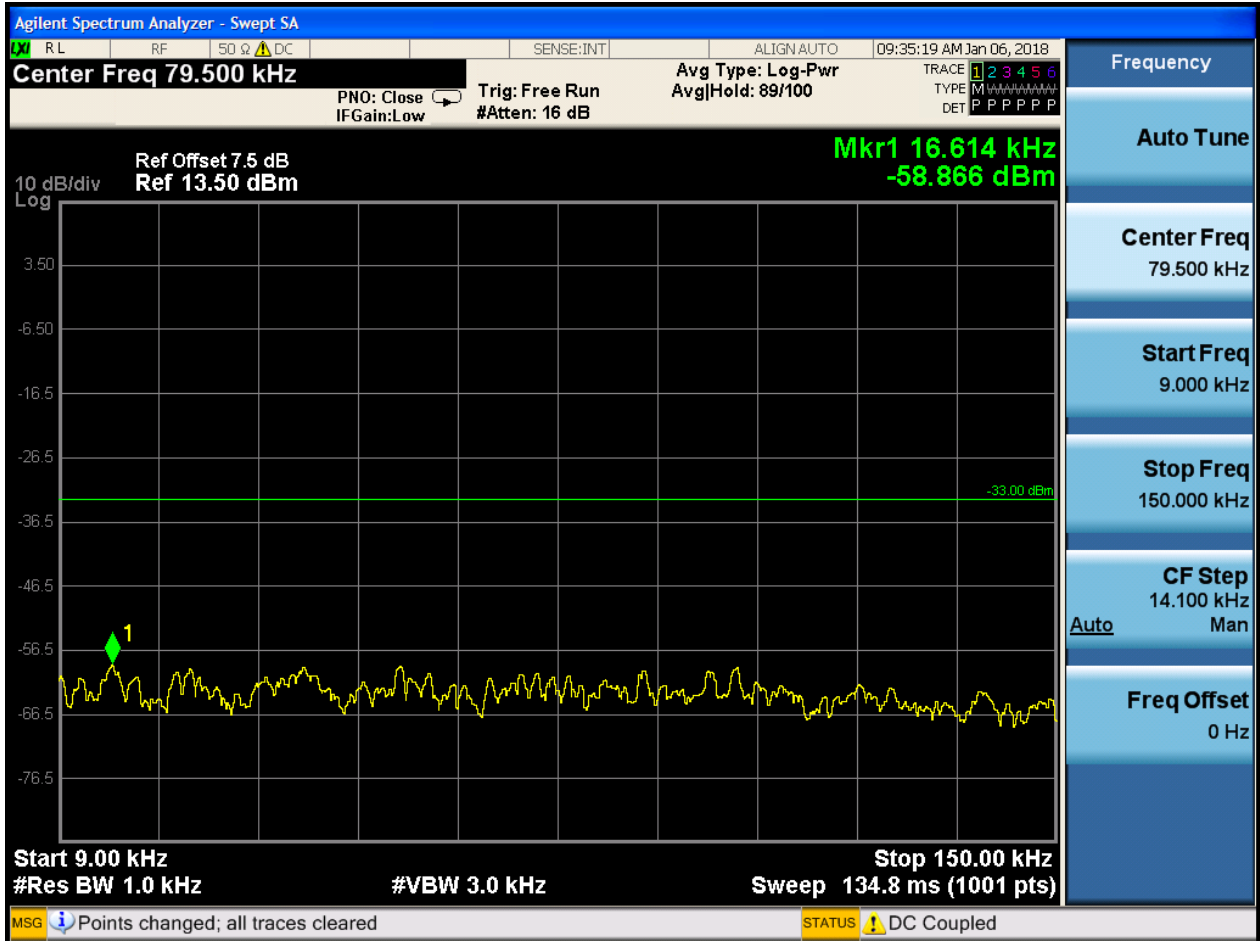


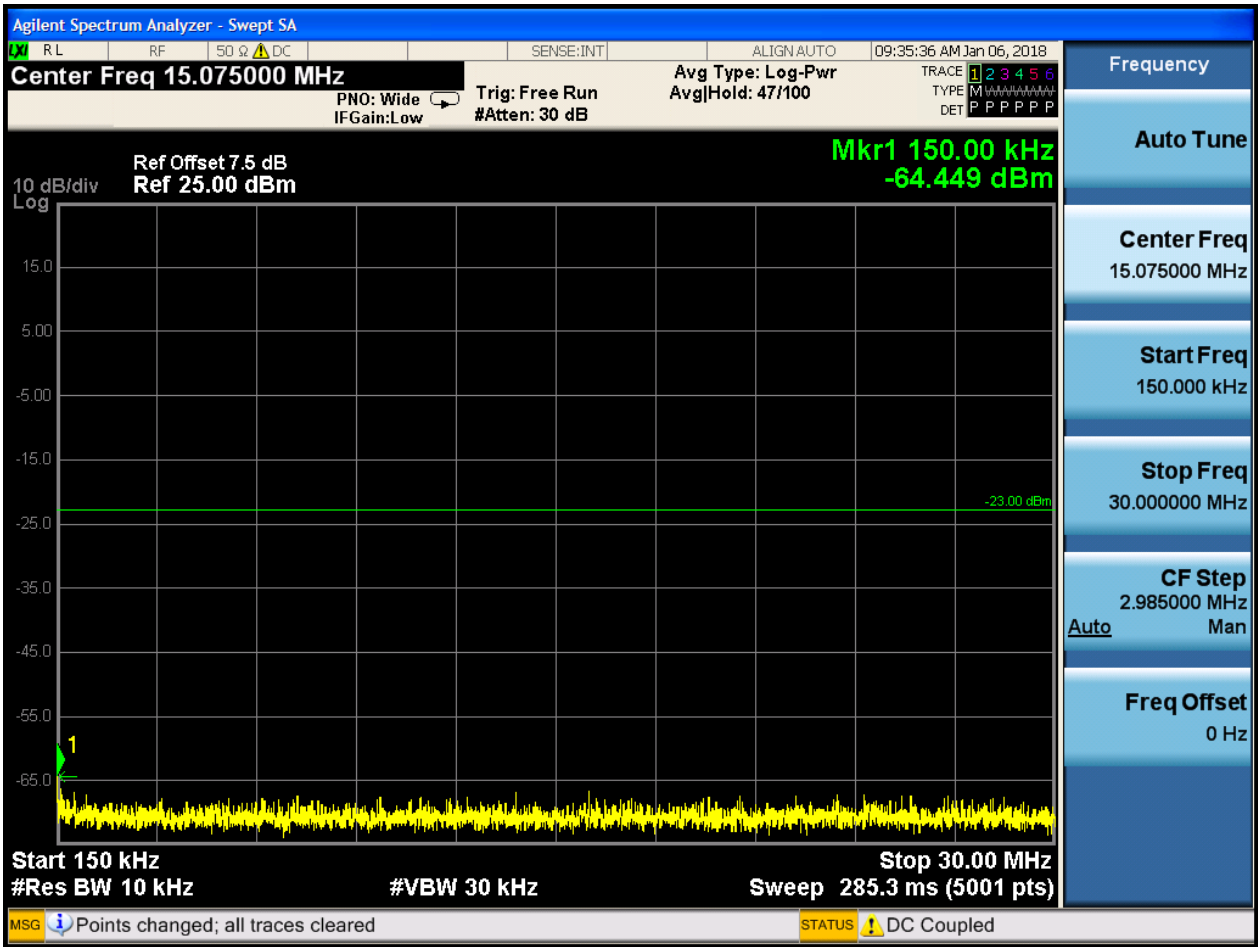


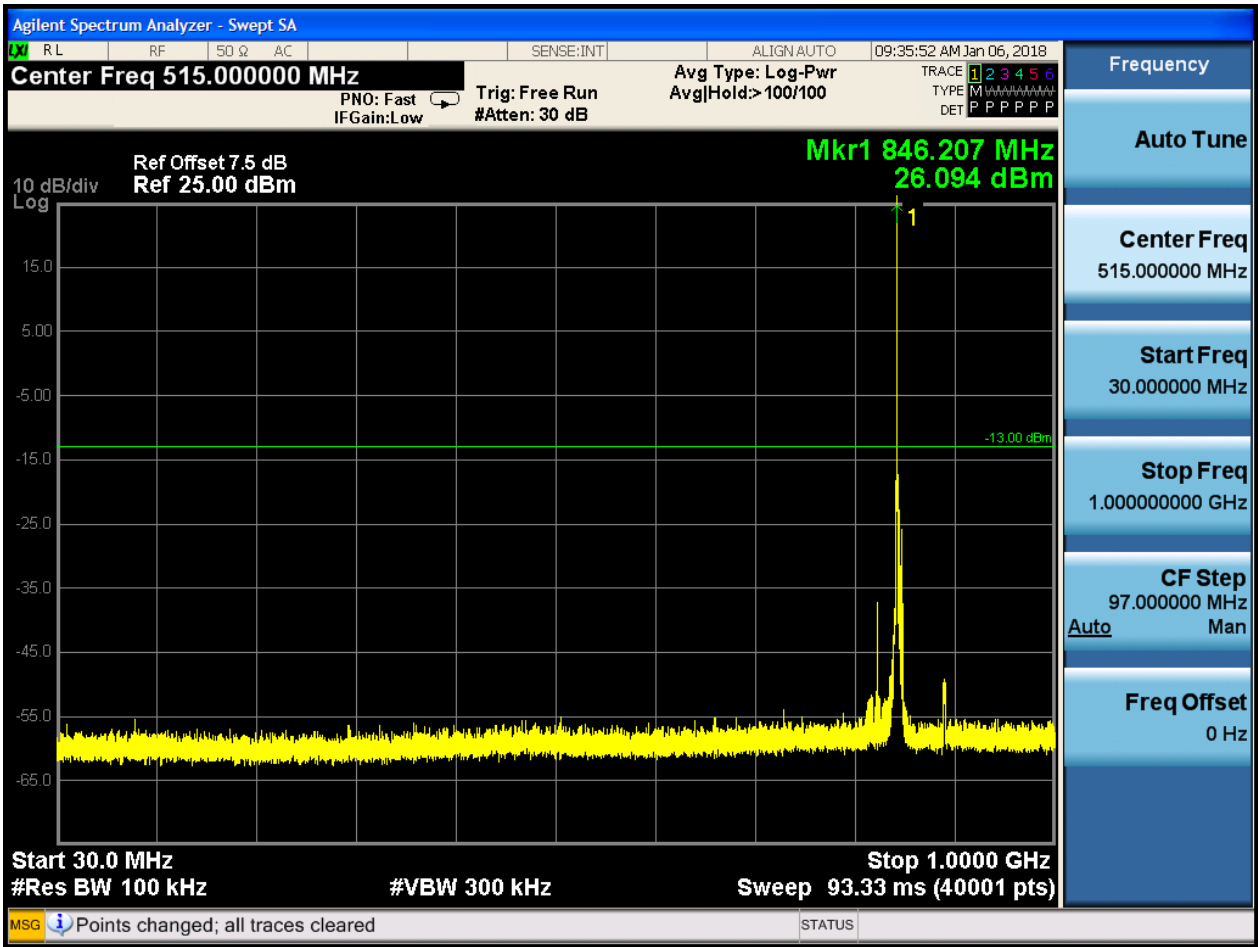


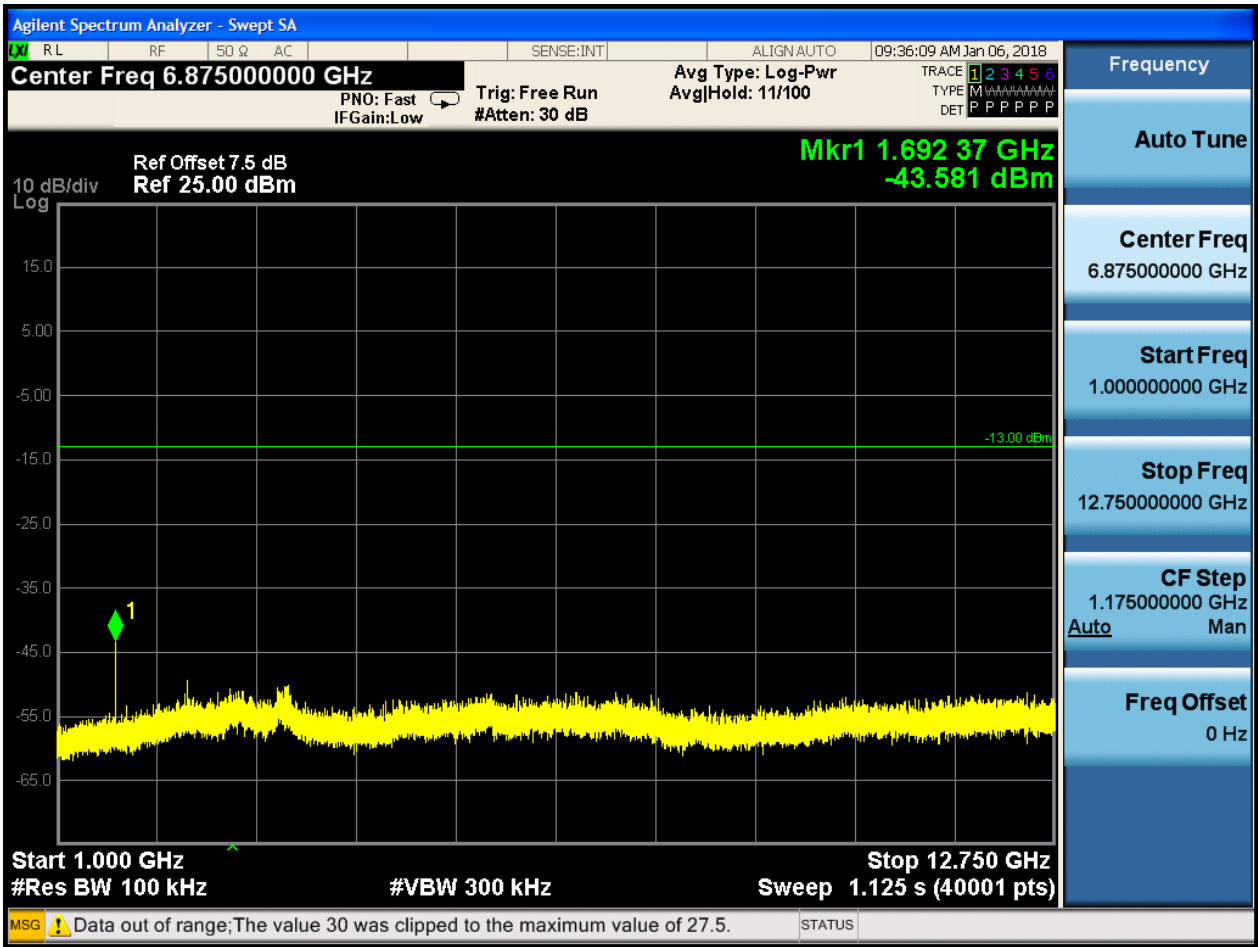
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







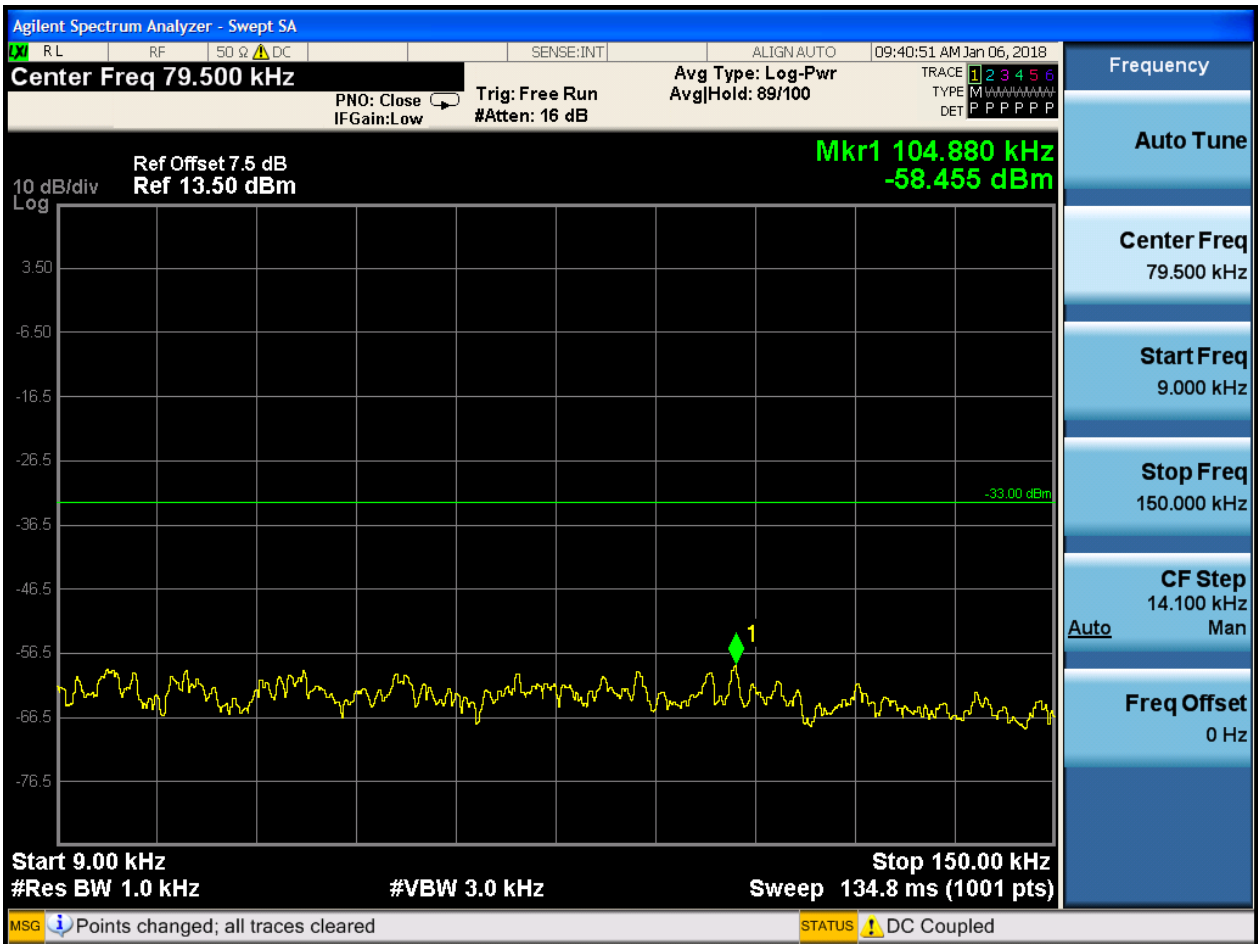


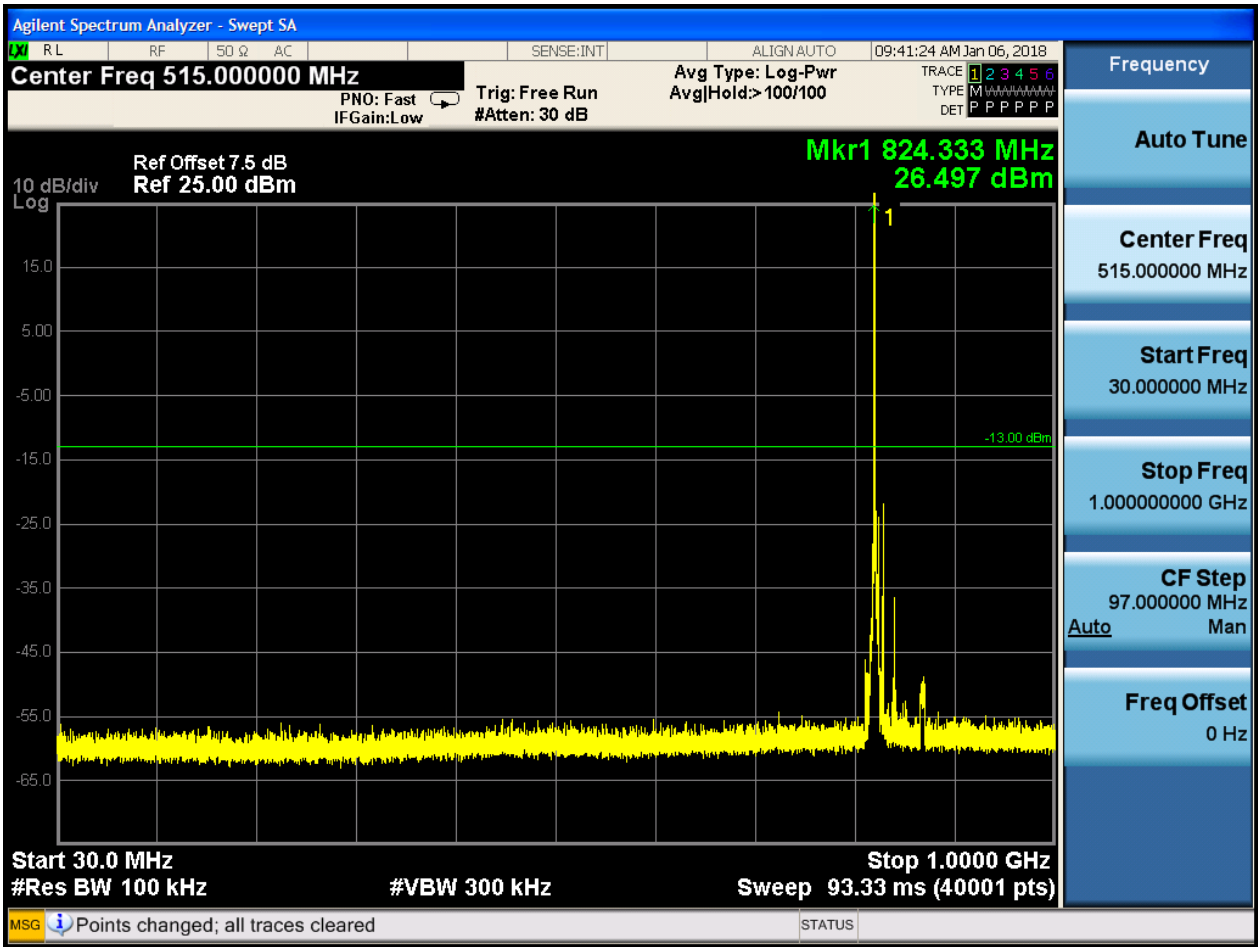


6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0

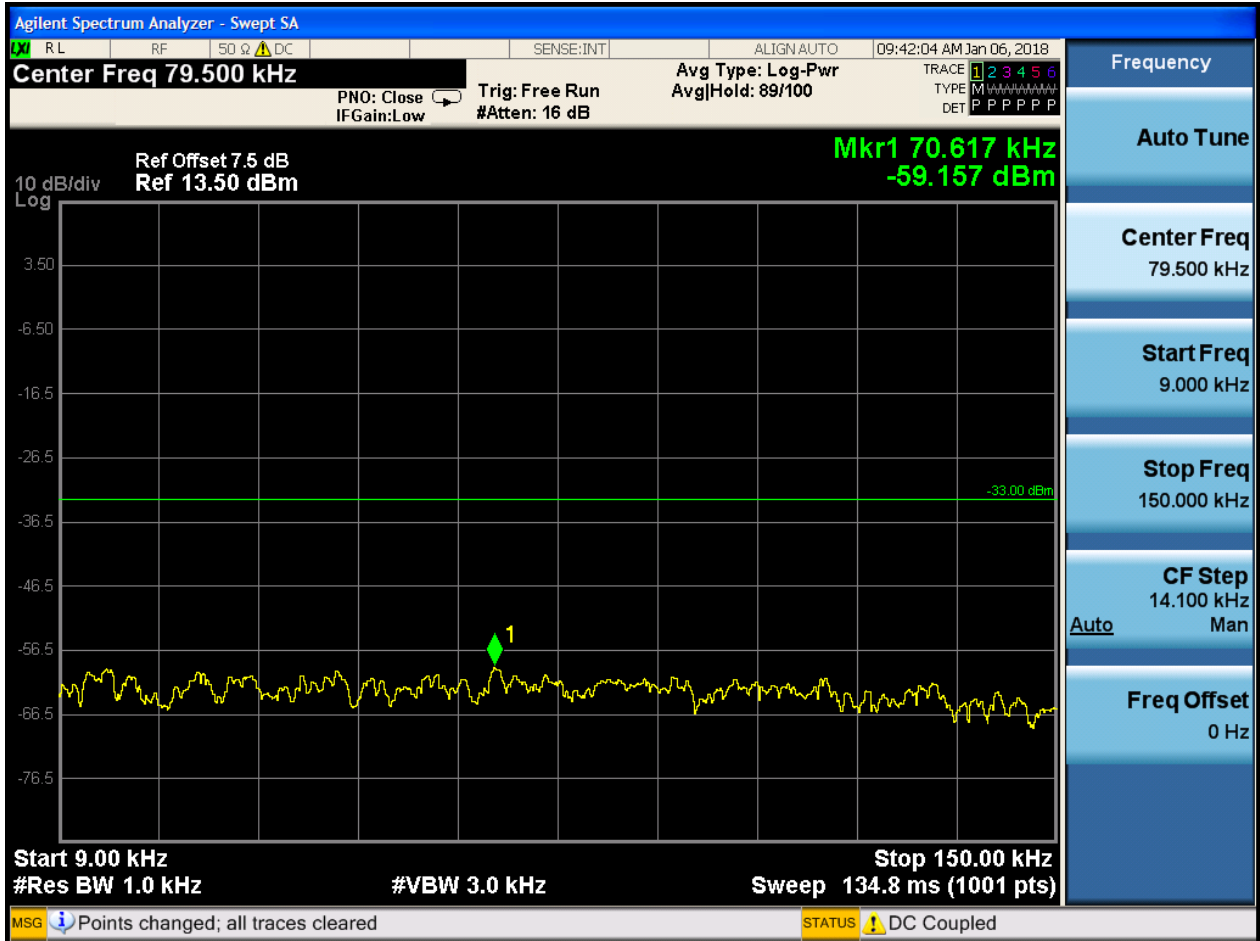


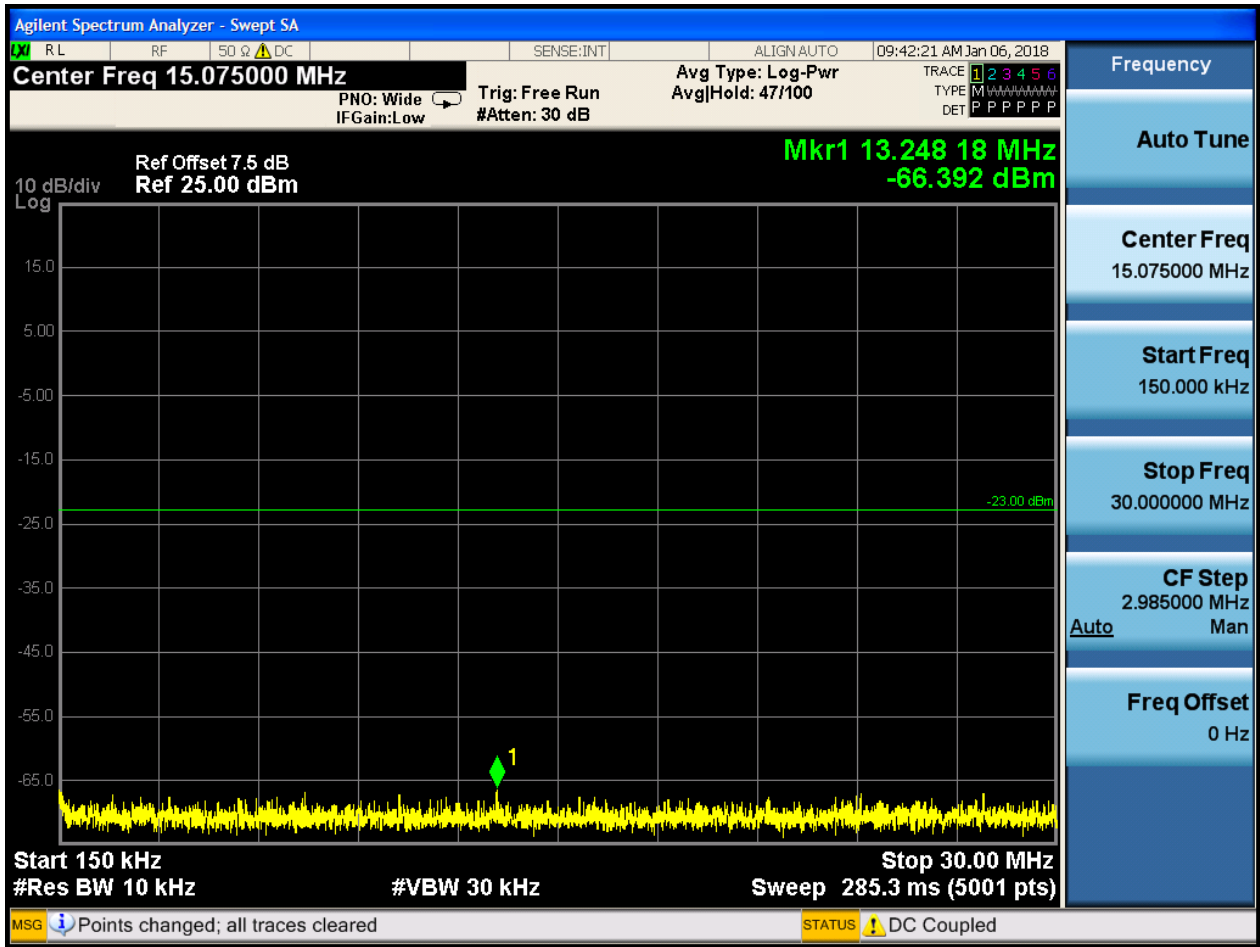




6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

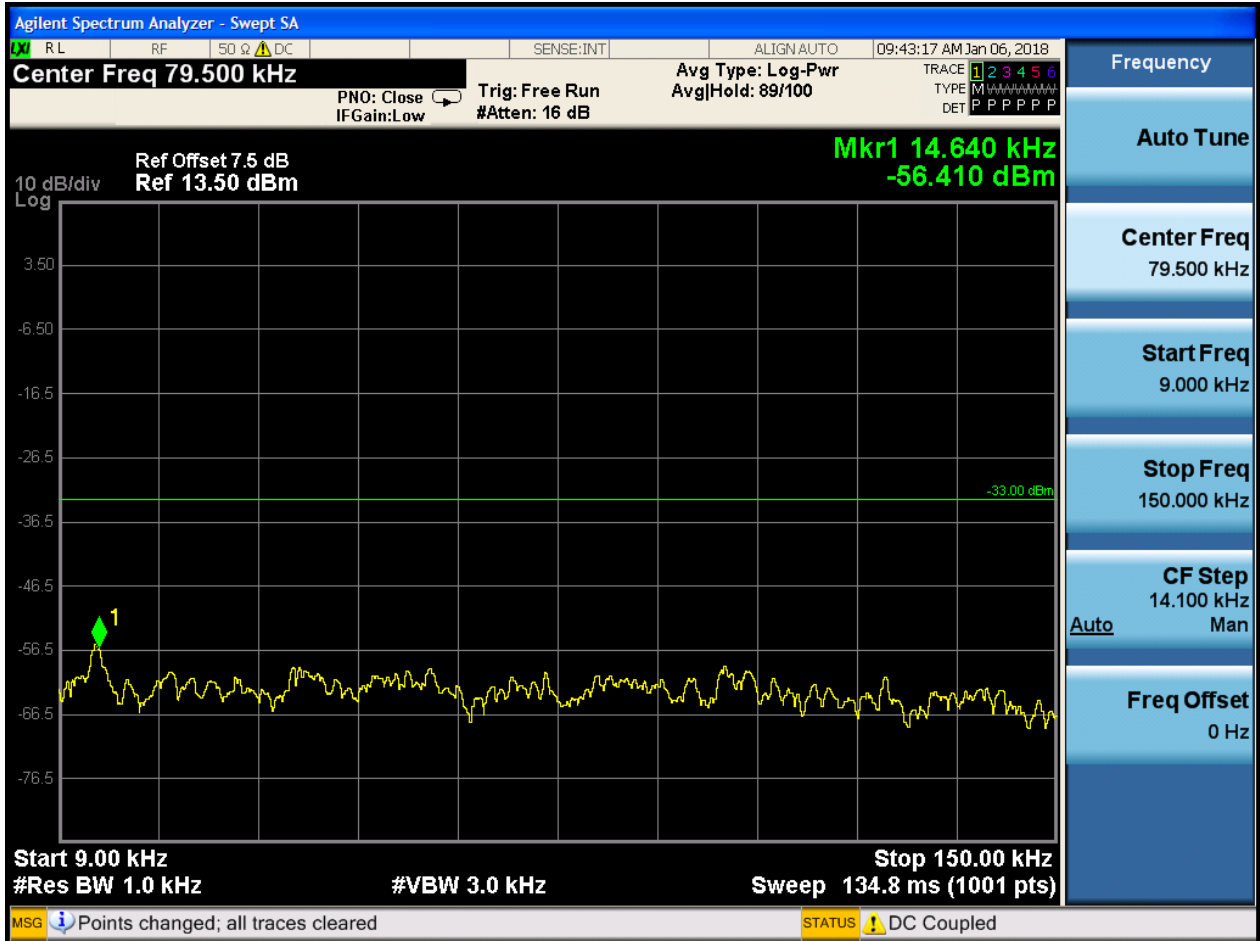


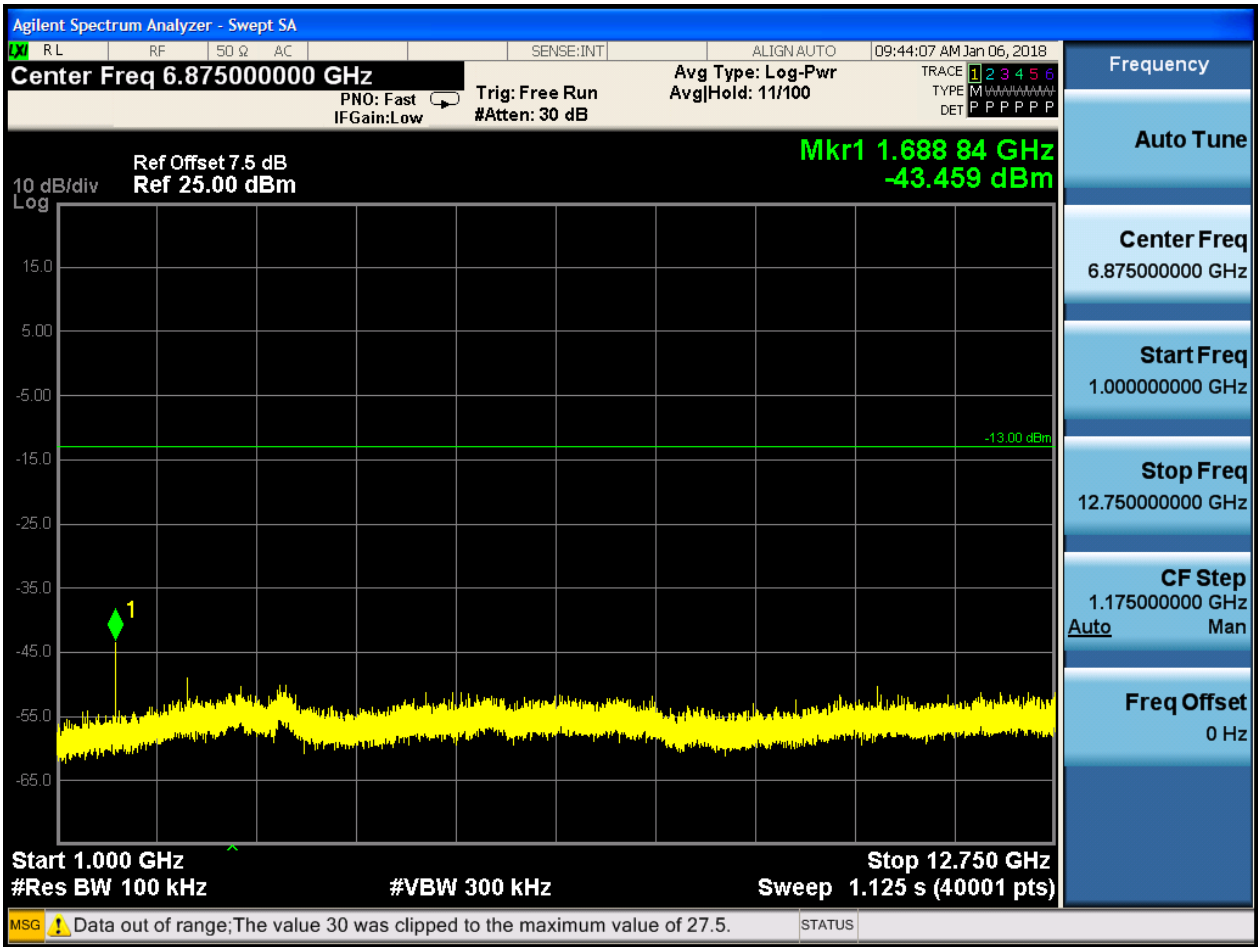




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



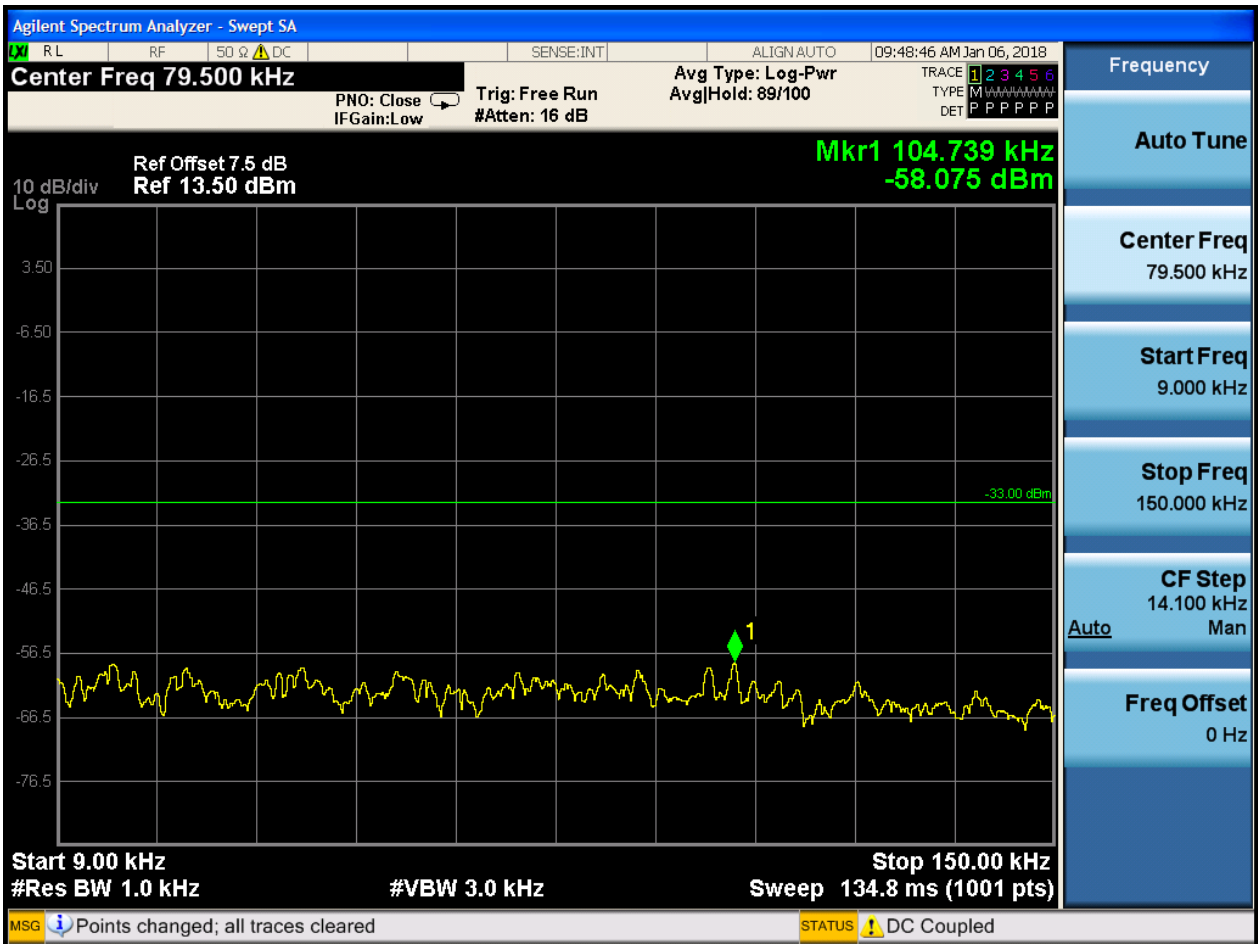


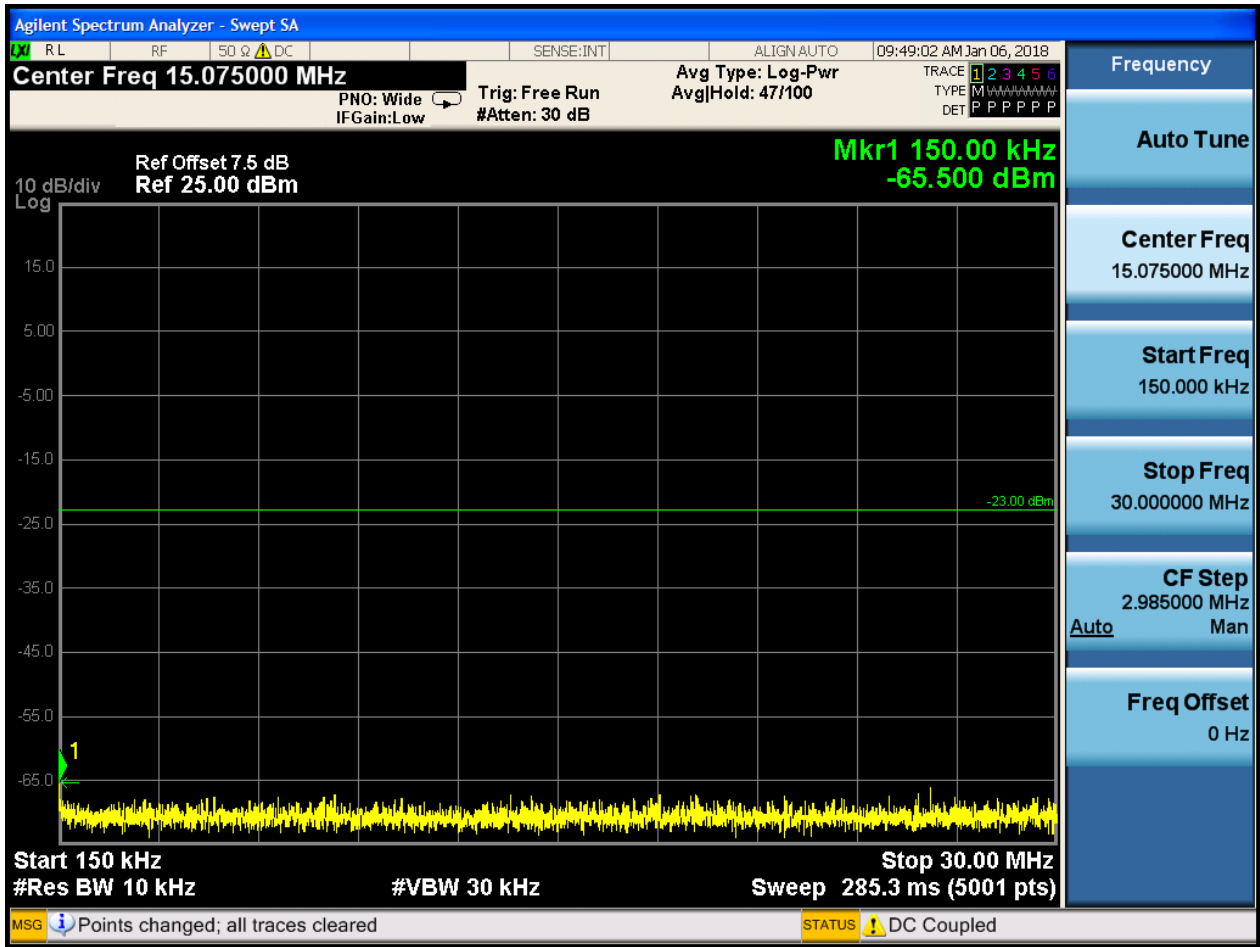


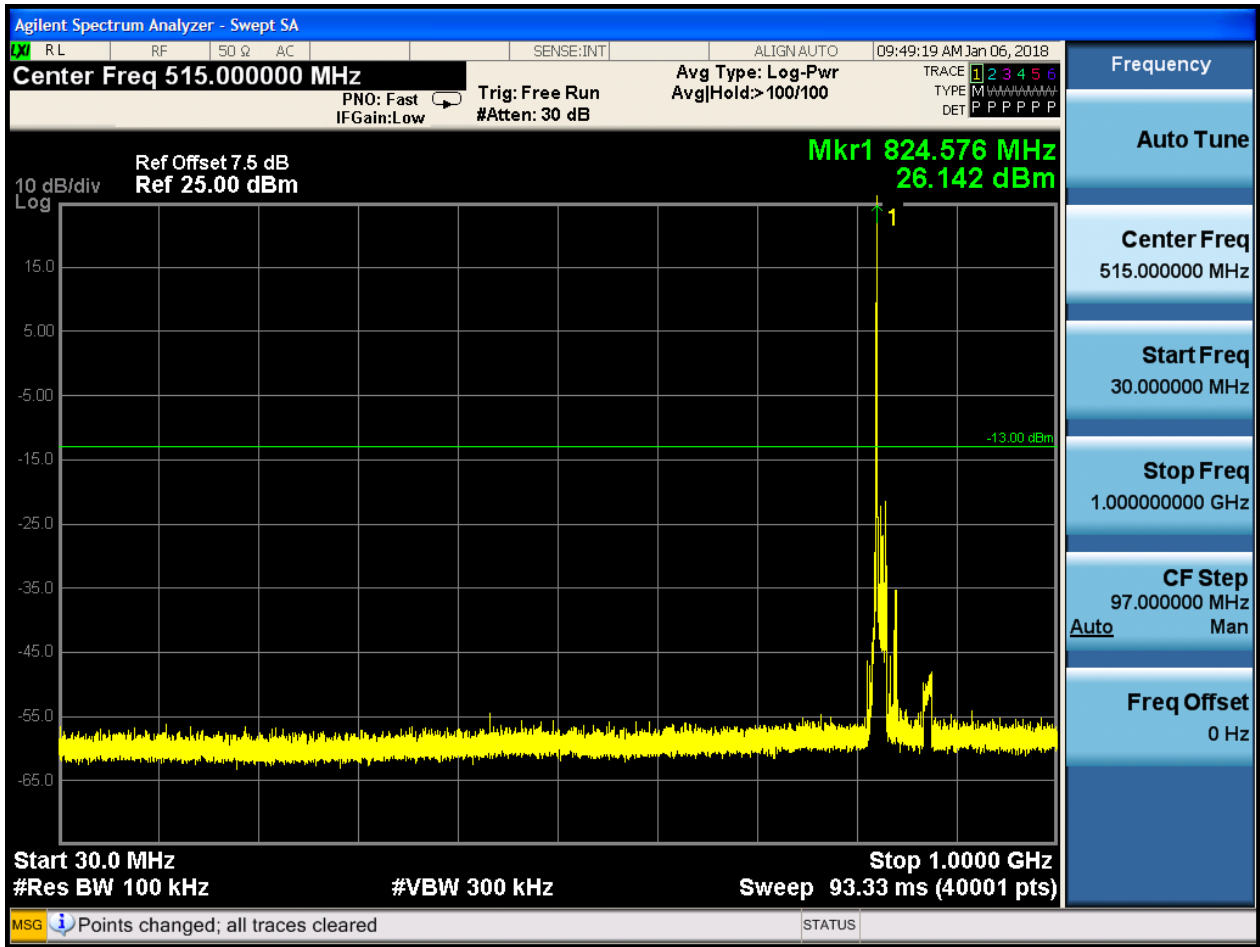
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



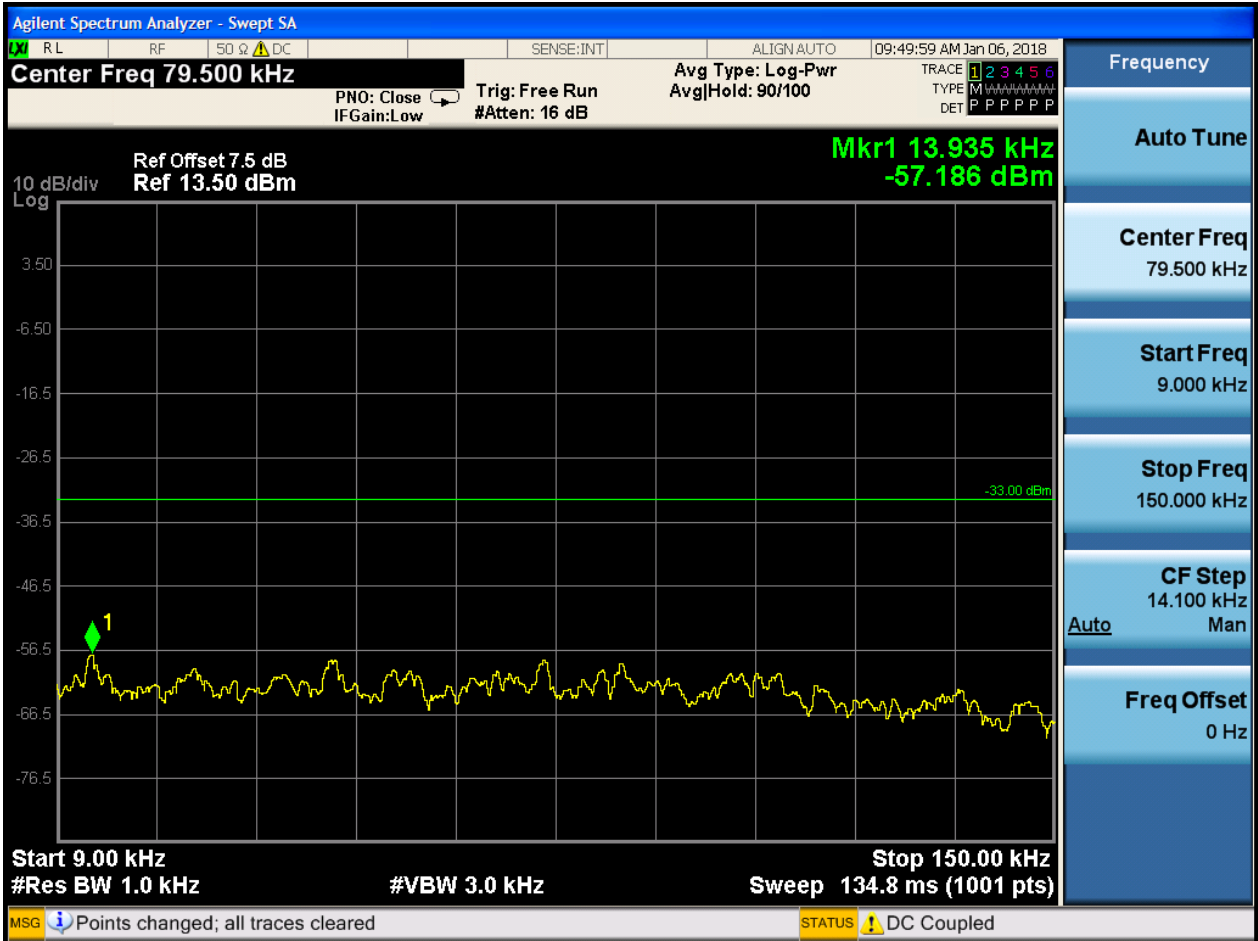




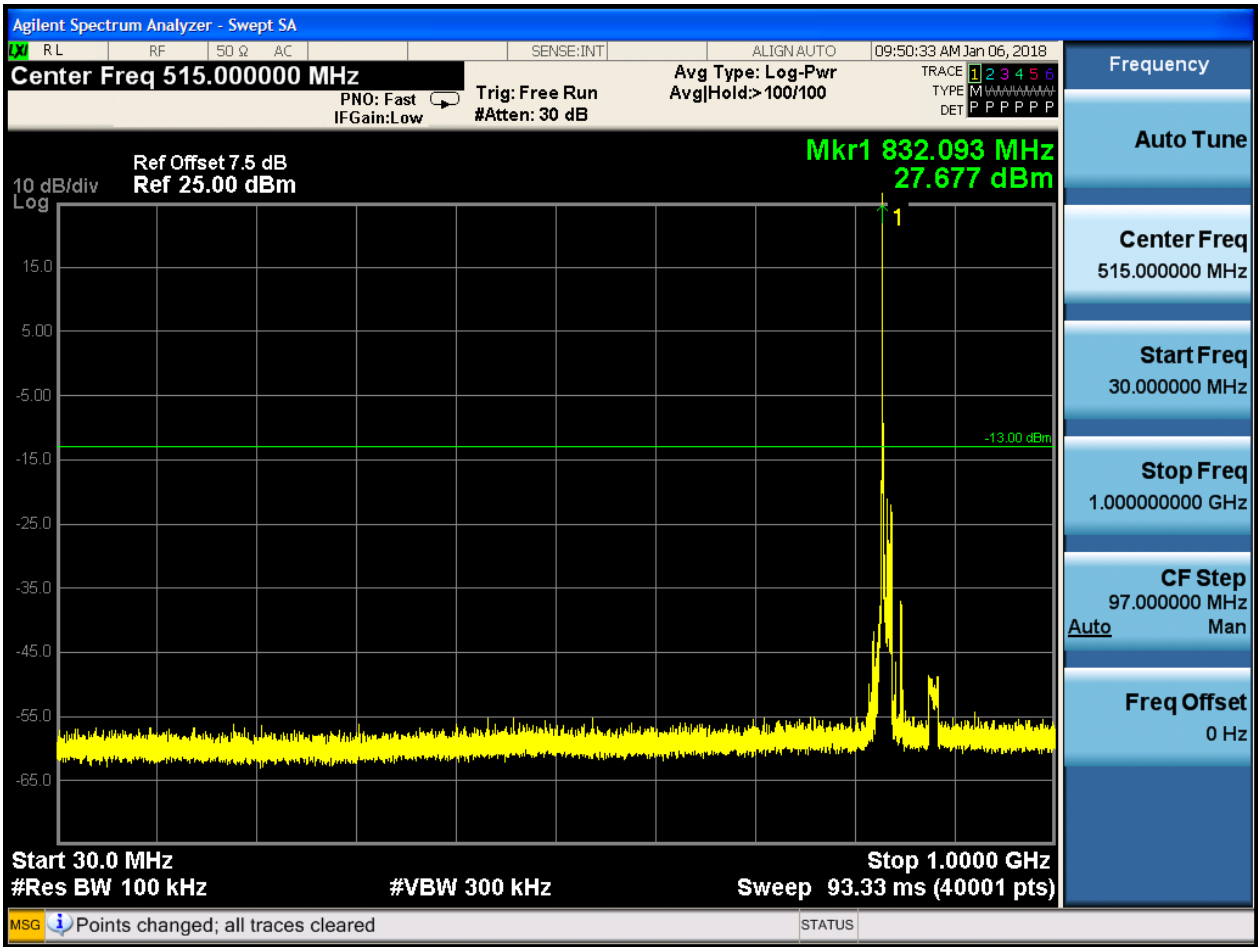


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



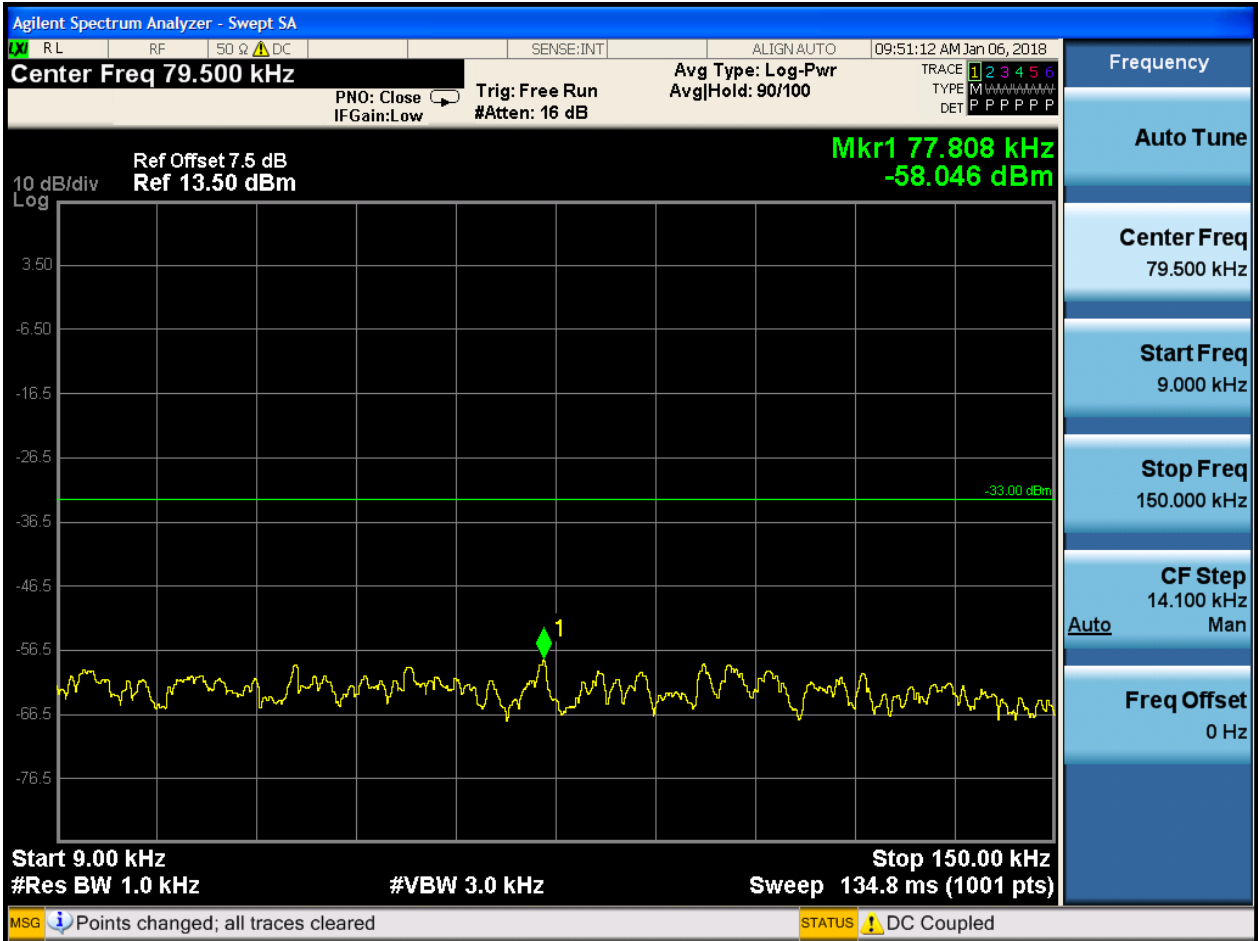




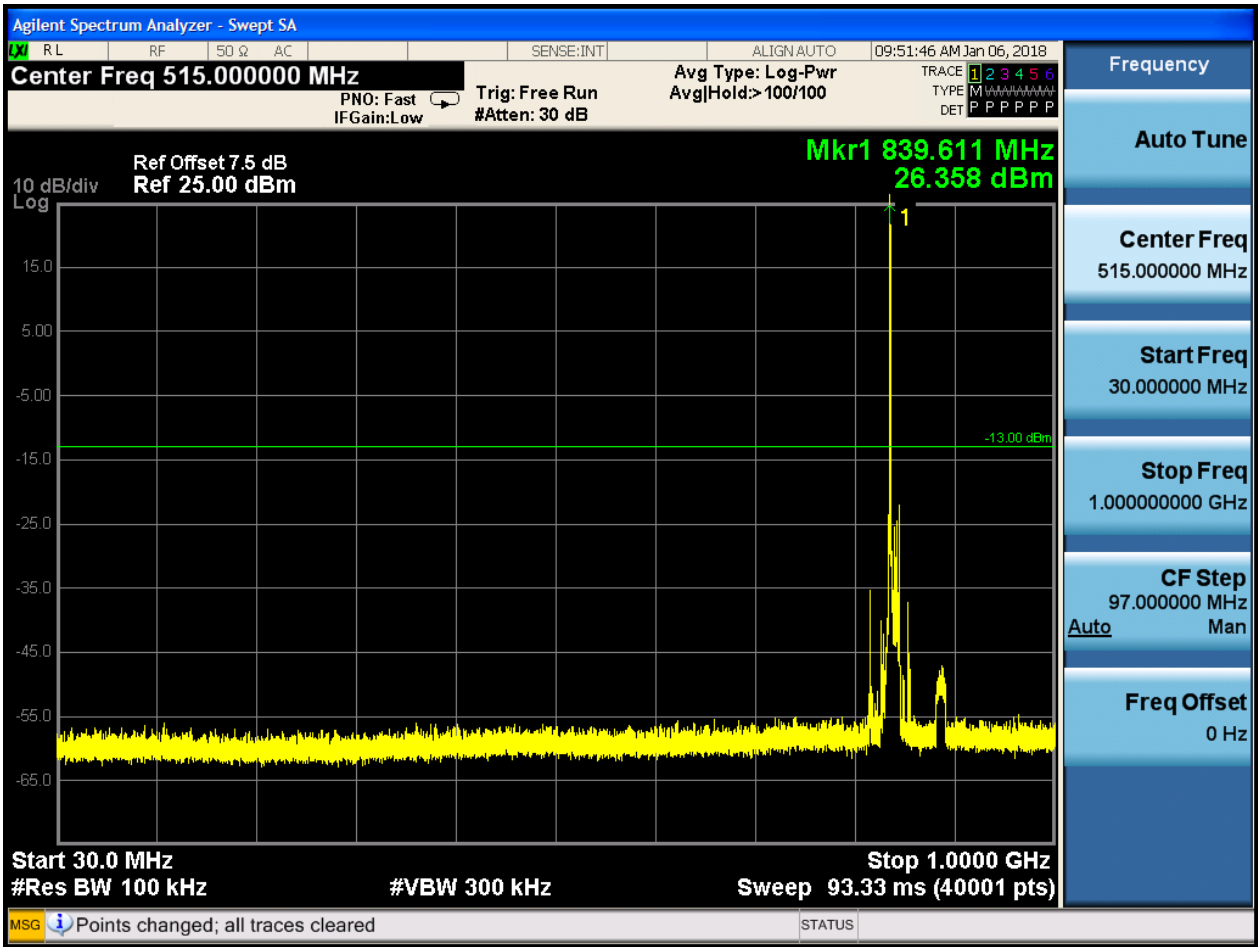


6.1.1.2.4.3 Test Channel = HCH

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

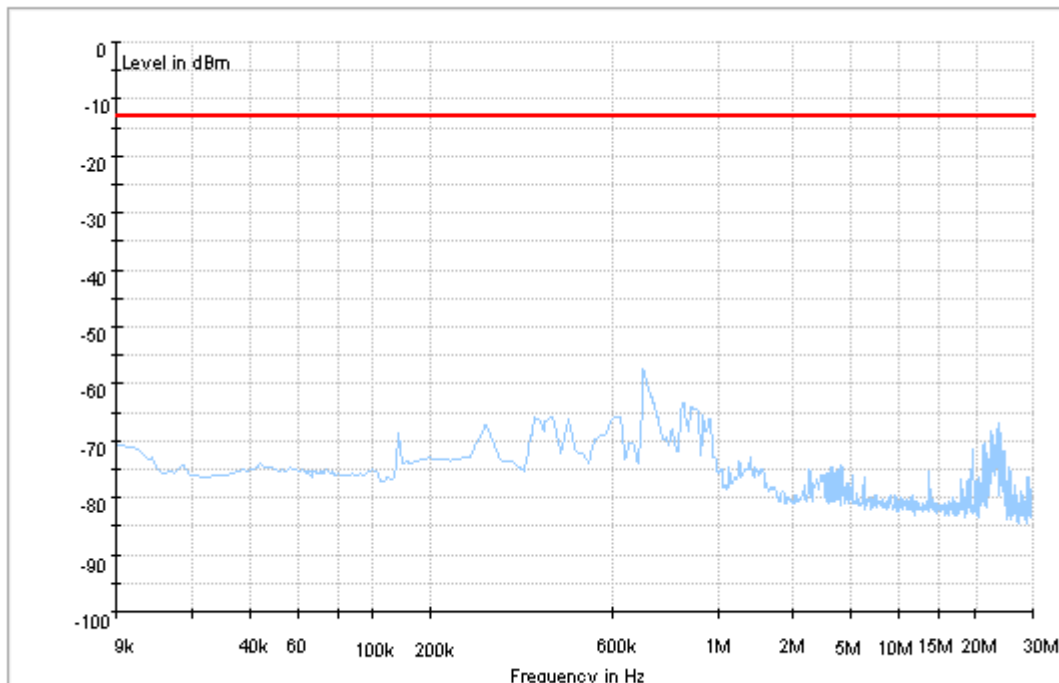
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

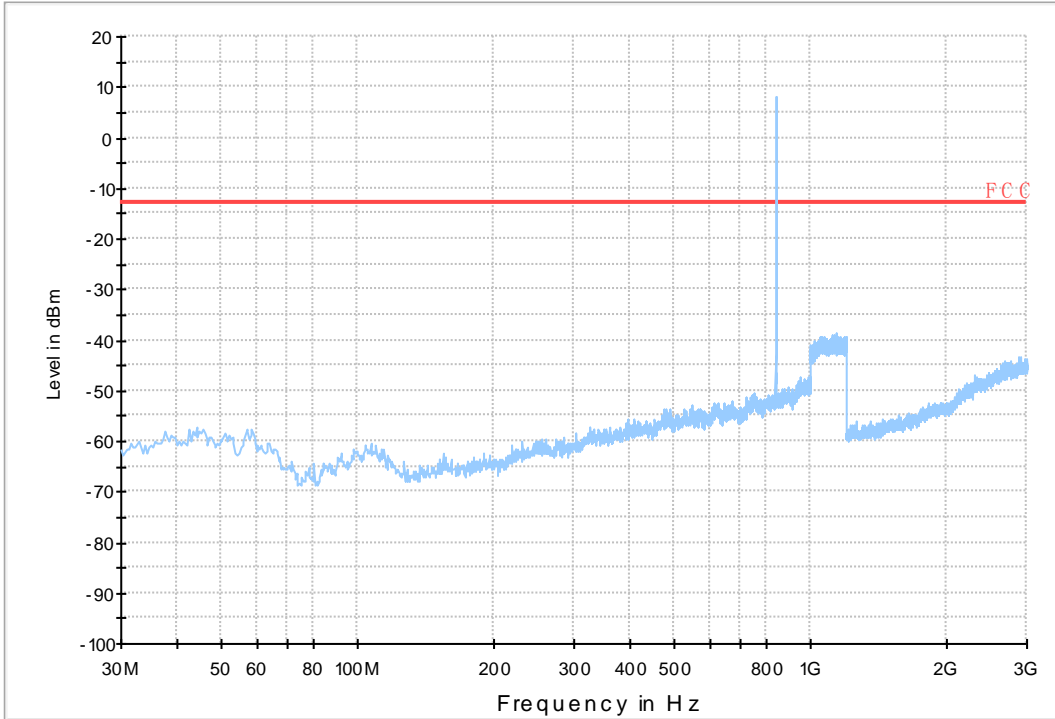
7.1 For LTE

7.1.1 Test Band = BAND5

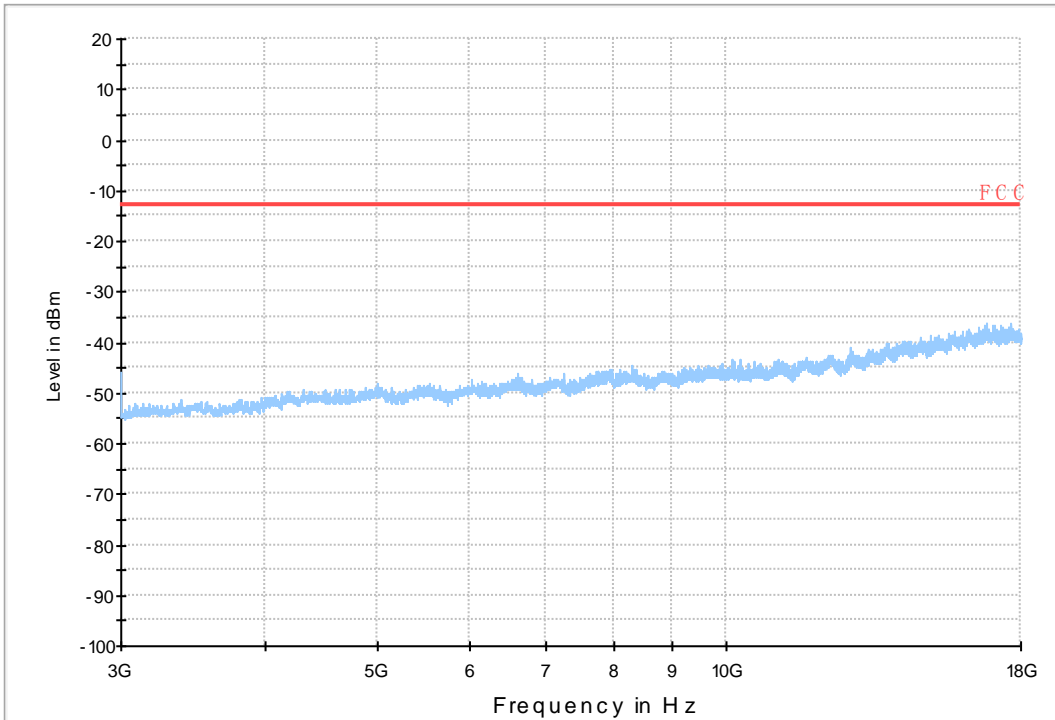
7.1.1.1 Test Bandwidth = 1.4



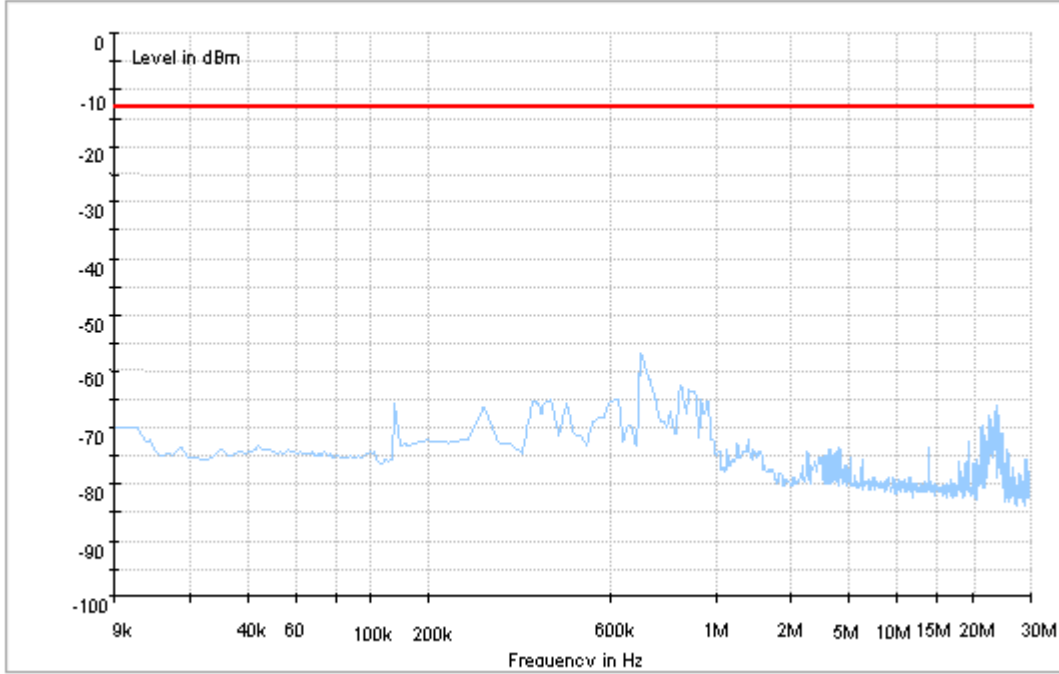
Copy of RSE-TX-DIRECTOR BELOW 1G_L



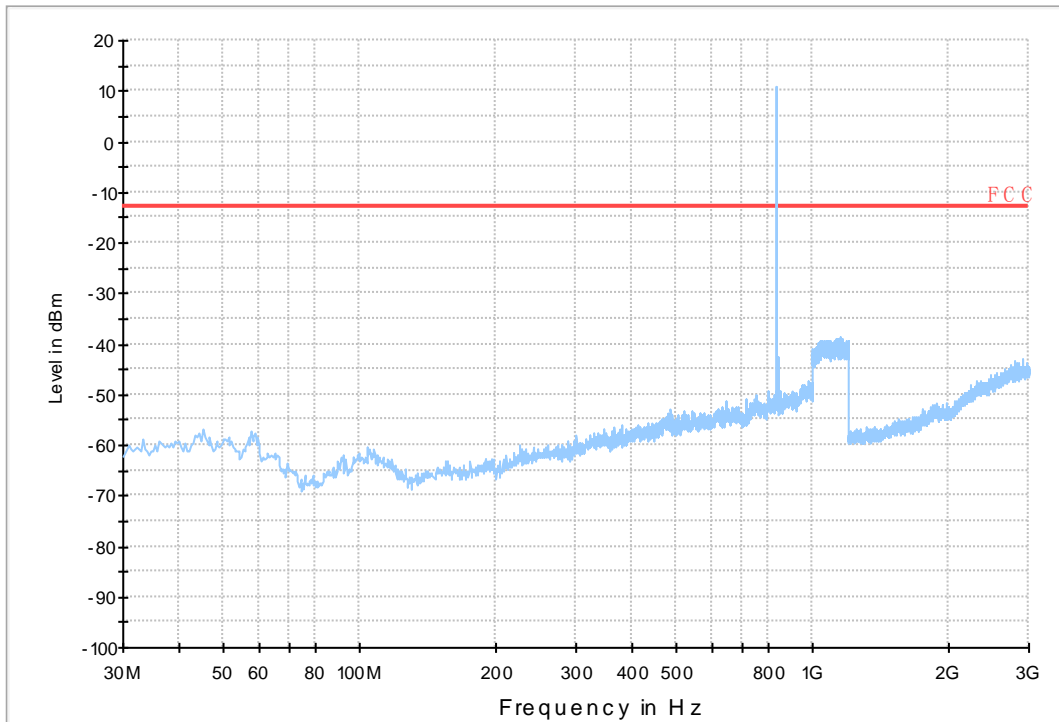
Copy of RSE-TX-DIRECTOR BELOW 1G_H



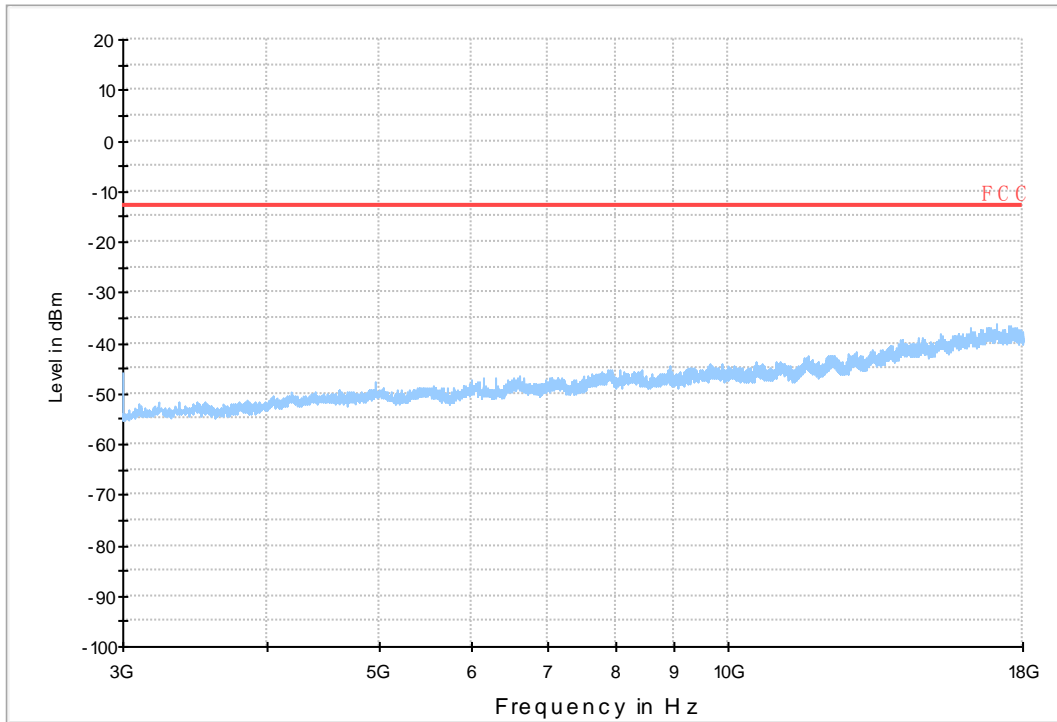
7.1.1.3 Test Bandwidth = 10



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	-2.73	-0.00331	PASS
					VN	-1.03	-0.00125	PASS
					VH	-1.52	-0.00184	PASS
			MCH	TN	VL	0.11	0.00013	PASS
					VN	-0.13	-0.00016	PASS
					VH	-1.12	-0.00134	PASS
			HCH	TN	VL	-0.69	-0.00081	PASS
					VN	-0.11	-0.00013	PASS
					VH	0.24	0.00028	PASS
		3	LCH	TN	VL	-23.83	-0.02887	PASS
					VN	-19.05	-0.02308	PASS
					VH	12.52	0.01517	PASS
			MCH	TN	VL	-0.97	-0.00116	PASS
					VN	-2.1	-0.00251	PASS
					VH	-1.76	-0.0021	PASS
			HCH	TN	VL	-2.5	-0.00295	PASS
					VN	-1.54	-0.00182	PASS
					VH	-1.83	-0.00216	PASS
		5	LCH	TN	VL	-10.69	-0.01293	PASS
					VN	-12.79	-0.01547	PASS
					VH	14.88	0.018	PASS
			MCH	TN	VL	33.73	0.04032	PASS
					VN	44.98	0.05377	PASS
					VH	28.22	0.03374	PASS
			HCH	TN	VL	0.56	0.00066	PASS
					VN	-0.54	-0.00064	PASS
					VH	1.36	0.00161	PASS
		10	LCH	TN	VL	46.45	0.05603	PASS
					VN	66.6	0.08034	PASS
					VH	-3.58	-0.00432	PASS
MCH	TN			VL	-8.14	-0.00973	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VN	2.88	0.00344	PASS
					VH	-14.96	-0.01788	PASS
					VL	11.26	0.01334	PASS
			VN	0.62	0.00073	PASS		
			VH	12.19	0.01444	PASS		
			VL	-1.6	-0.00194	PASS		
		1.4	LCH	TN	VN	-1.65	-0.002	PASS
					VH	-1.34	-0.00162	PASS
					VL	-0.67	-0.0008	PASS
			MCH	TN	VN	0.8	0.00096	PASS
					VH	0.14	0.00017	PASS
					VL	2.12	0.0025	PASS
	3	HCH	TN	VN	-0.43	-0.00051	PASS	
				VH	0.4	0.00047	PASS	
				VL	-18.88	-0.02287	PASS	
		LCH	TN	VN	-0.26	-0.00031	PASS	
				VH	12.16	0.01473	PASS	
				VL	-0.77	-0.00092	PASS	
	5	MCH	TN	VN	-1.22	-0.00146	PASS	
				VH	-1.07	-0.00128	PASS	
				VL	-1.8	-0.00212	PASS	
		HCH	TN	VN	-2.7	-0.00319	PASS	
				VH	-1.7	-0.00201	PASS	
				VL	10.23	0.01238	PASS	
	LTE/TM2	10	LCH	TN	VN	-0.67	-0.00081	PASS
					VH	1.02	0.00123	PASS
					VL	36.52	0.04366	PASS
			MCH	TN	VN	14.49	0.01732	PASS
					VH	12.15	0.01452	PASS
					VL	-1.93	-0.00228	PASS
		HCH	TN	VN	16.55	0.01955	PASS	
				VH	-4.05	-0.00478	PASS	
				VL	-45.62	-0.05503	PASS	
		10	LCH	TN	VN	9.9	0.01194	PASS
					VH	35.1	0.04234	PASS
					VL	14.61	0.01747	PASS
	MCH		TN	VN	-3.99	-0.00477	PASS	
				VH	-24.91	-0.02978	PASS	
				VL	2.36	0.0028	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.56	0.00066	PASS
					VH	-3.25	-0.00385	PASS

8.1.2 Frequency Error vs. Temperature:

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	VN	-30	-0.8	-0.00097	PASS
					-20	-0.84	-0.00102	PASS
					-10	-0.26	-0.00032	PASS
					0	-1.4	-0.0017	PASS
					10	-2.12	-0.00257	PASS
					20	-1.6	-0.00194	PASS
			30	-2.29	-0.00278	PASS		
			40	-1.24	-0.0015	PASS		
			50	-1.9	-0.0023	PASS		
			MCH	VN	-30	1.54	0.00184	PASS
					-20	1.27	0.00152	PASS
					-10	-0.06	-0.00007	PASS
		0			0.23	0.00027	PASS	
		10			0.99	0.00118	PASS	
		20			2.35	0.00281	PASS	
		30	3.55	0.00424	PASS			
		40	2.15	0.00257	PASS			
		50	-1.85	-0.00221	PASS			
		HCH	VN	-30	1.02	0.0012	PASS	
				-20	-0.62	-0.00073	PASS	
				-10	0.84	0.00099	PASS	
				0	0.19	0.00022	PASS	
				10	-1.65	-0.00195	PASS	
				20	-1.67	-0.00197	PASS	
		30	1.26	0.00149	PASS			
		40	-0.04	-0.00005	PASS			
		50	-0.66	-0.00078	PASS			
		3	LCH	VN	-30	-83.63	-0.10131	PASS
-20	-0.69				-0.00084	PASS		
-10	15.36				0.01861	PASS		
0	-1.03				-0.00125	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					10	-24.23	-0.02935	PASS	
					20	-24.15	-0.02925	PASS	
					30	-10.43	-0.01263	PASS	
					40	-1.62	-0.00196	PASS	
					50	-133.14	-0.16128	PASS	
			MCH	VN	-30	1.03	0.00123	PASS	
					-20	0.41	0.00049	PASS	
					-10	-0.04	-0.00005	PASS	
					0	2.23	0.00267	PASS	
					10	0.77	0.00092	PASS	
					20	0.77	0.00092	PASS	
					30	2.15	0.00257	PASS	
					40	1	0.0012	PASS	
			HCH	VN	50	2.1	0.00251	PASS	
					-30	-4.28	-0.00505	PASS	
					-20	-5.31	-0.00627	PASS	
					-10	-1.6	-0.00189	PASS	
					0	-5.46	-0.00644	PASS	
					10	-0.66	-0.00078	PASS	
					20	-0.69	-0.00081	PASS	
					30	-6.35	-0.00749	PASS	
			5	LCH	VN	40	-2.69	-0.00317	PASS
						50	-1.99	-0.00235	PASS
						-30	6.21	0.00751	PASS
						-20	44.05	0.0533	PASS
						-10	58.29	0.07053	PASS
						0	-0.97	-0.00117	PASS
				MCH	VN	10	46.48	0.05624	PASS
						20	30.3	0.03666	PASS
						30	45.52	0.05508	PASS
						40	18.7	0.02263	PASS
						50	18.78	0.02272	PASS
						-30	-25.58	-0.03058	PASS
						-20	27.82	0.03326	PASS
						-10	-26.05	-0.03114	PASS
						0	-58.49	-0.06992	PASS
10	-50.23	-0.06005				PASS			
20	-2.37	-0.00283				PASS			
30	-41.04	-0.04906				PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	12.07	0.01443	PASS	
					50	44.62	0.05334	PASS	
			HCH	VN	-30	-0.31	-0.00037	PASS	
					-20	-1	-0.00118	PASS	
					-10	-0.84	-0.00099	PASS	
					0	-0.62	-0.00073	PASS	
					10	-1.33	-0.00157	PASS	
					20	0.89	0.00105	PASS	
					30	0.19	0.00022	PASS	
					40	0.27	0.00032	PASS	
		50	-0.4	-0.00047	PASS				
		LCH	VN	-30	-44.09	-0.05318	PASS		
				-20	-44.03	-0.05311	PASS		
				-10	-19.73	-0.0238	PASS		
				0	20.43	0.02464	PASS		
				10	-26.95	-0.03251	PASS		
				20	-52.97	-0.0639	PASS		
				30	0.86	0.00104	PASS		
				40	-9.38	-0.01131	PASS		
				50	12.5	0.01508	PASS		
				MCH	VN	-30	-20.41	-0.0244	PASS
		-20	-0.94			-0.00112	PASS		
		-10	37.02			0.04426	PASS		
		0	-6.07			-0.00726	PASS		
		10	6.84			0.00818	PASS		
		20	-3.89			-0.00465	PASS		
		30	16.98			0.0203	PASS		
		40	44.05			0.05266	PASS		
		50	19.5			0.02331	PASS		
		HCH	VN			-30	13.55	0.01605	PASS
				-20	6.84	0.0081	PASS		
				-10	14.42	0.01709	PASS		
				0	13.75	0.01629	PASS		
				10	8.68	0.01028	PASS		
				20	6.87	0.00814	PASS		
				30	5.95	0.00705	PASS		
				40	7.18	0.00851	PASS		
		50	6.77	0.00802	PASS				
		LTE/TM2	1.4	LCH	VN	-30	-0.77	-0.00093	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		3			-20	-1.03	-0.00125	PASS	
					-10	-1.62	-0.00196	PASS	
					0	-1.06	-0.00129	PASS	
					10	-1.22	-0.00148	PASS	
					20	-0.06	-0.00007	PASS	
					30	-1.17	-0.00142	PASS	
					40	-0.29	-0.00035	PASS	
					50	-1.37	-0.00166	PASS	
			MCH	VN	-30	-0.54	-0.00065	PASS	
					-20	0.49	0.00059	PASS	
					-10	0.3	0.00036	PASS	
					0	0.56	0.00067	PASS	
					10	-0.23	-0.00027	PASS	
					20	0.33	0.00039	PASS	
					30	0.53	0.00063	PASS	
					40	0.87	0.00104	PASS	
			HCH	VN	-30	-0.79	-0.00093	PASS	
					-20	-0.53	-0.00062	PASS	
					-10	-0.33	-0.00039	PASS	
					0	-1.32	-0.00156	PASS	
					10	-0.11	-0.00013	PASS	
					20	0.3	0.00035	PASS	
					30	-1.93	-0.00228	PASS	
					40	-2.09	-0.00246	PASS	
			3	LCH	VN	-30	-13.2	-0.01599	PASS
						-20	-35.88	-0.04346	PASS
						-10	0.3	0.00036	PASS
						0	-42.73	-0.05176	PASS
		10				-84.41	-0.10225	PASS	
		20				-46.55	-0.05639	PASS	
		30				16.75	0.02029	PASS	
		40				-20.3	-0.02459	PASS	
		50				-34.8	-0.04216	PASS	
		MCH				VN	-30	-1.17	-0.0014
				-20	-0.3		-0.00036	PASS	
				-10	-0.84		-0.001	PASS	
			0	-1.36	-0.00163		PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-0.62	-0.00074	PASS		
					20	-1.54	-0.00184	PASS		
					30	0.11	0.00013	PASS		
					40	-1.92	-0.0023	PASS		
					50	-1.49	-0.00178	PASS		
			HCH	VN	-30	-0.06	-0.00007	PASS		
					-20	-0.79	-0.00093	PASS		
					-10	-0.94	-0.00111	PASS		
					0	-1.24	-0.00146	PASS		
					10	-2	-0.00236	PASS		
					20	-1.75	-0.00206	PASS		
					30	-1.27	-0.0015	PASS		
					40	-1.54	-0.00182	PASS		
					50	0.29	0.00034	PASS		
					LCH	VN	-30	-8.5	-0.01028	PASS
		-20	23.07	0.02791			PASS			
		-10	29.55	0.03575			PASS			
		0	13.33	0.01613			PASS			
		10	20.1	0.02432			PASS			
		20	15.86	0.01919			PASS			
		30	30.73	0.03718			PASS			
		40	7.02	0.00849			PASS			
		50	15.29	0.0185			PASS			
		MCH	VN	-30			-15.19	-0.01816	PASS	
				-20			-28.17	-0.03368	PASS	
				-10			20.97	0.02507	PASS	
				0			-30.64	-0.03663	PASS	
				10			-18.7	-0.02236	PASS	
				20			-3.5	-0.00418	PASS	
				30	24.05	0.02875	PASS			
				40	-12.3	-0.0147	PASS			
		HCH	VN	50	11.8	0.01411	PASS			
				-30	2.6	0.00307	PASS			
				-20	-0.83	-0.00098	PASS			
				-10	-0.63	-0.00074	PASS			
				0	3.39	0.004	PASS			
				10	-2.65	-0.00313	PASS			
				20	-1.82	-0.00215	PASS			
		30	-8.03	-0.00949	PASS					
		5								



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	0.69	0.00082	PASS
					50	5.21	0.00615	PASS
		10	LCH	VN	-30	12.37	0.01492	PASS
					-20	-20.6	-0.02485	PASS
					-10	-0.19	-0.00023	PASS
					0	-0.3	-0.00036	PASS
					10	14.12	0.01703	PASS
					20	-10.19	-0.01229	PASS
					30	7.95	0.00959	PASS
					40	-37.21	-0.04489	PASS
					50	-1.77	-0.00214	PASS
					MCH	VN	-30	-4.71
			-20	13.25			0.01584	PASS
			-10	7.87			0.00941	PASS
			0	-1.09			-0.0013	PASS
			10	-6.94			-0.0083	PASS
			20	-1.04			-0.00124	PASS
			30	10.96			0.0131	PASS
			40	-2.99			-0.00357	PASS
			HCH	VN	-30	-16.32	-0.01934	PASS
					-20	-16.04	-0.019	PASS
					-10	-16.47	-0.01951	PASS
					0	-13.35	-0.01582	PASS
					10	-15.29	-0.01812	PASS
					20	-13.55	-0.01605	PASS
					30	-13.76	-0.0163	PASS
		40			-15.15	-0.01795	PASS	
			50	-14.49	-0.01717	PASS		

END