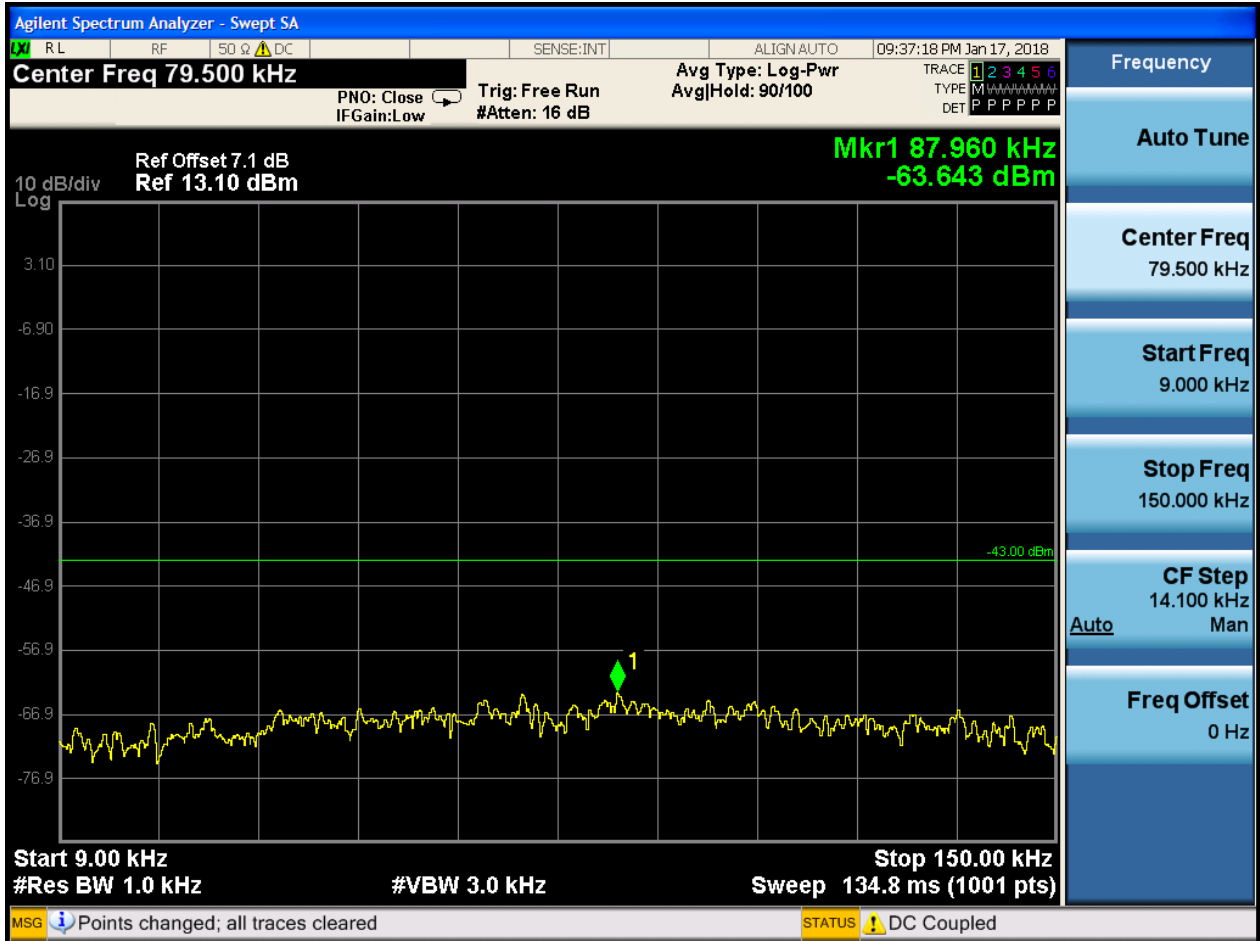
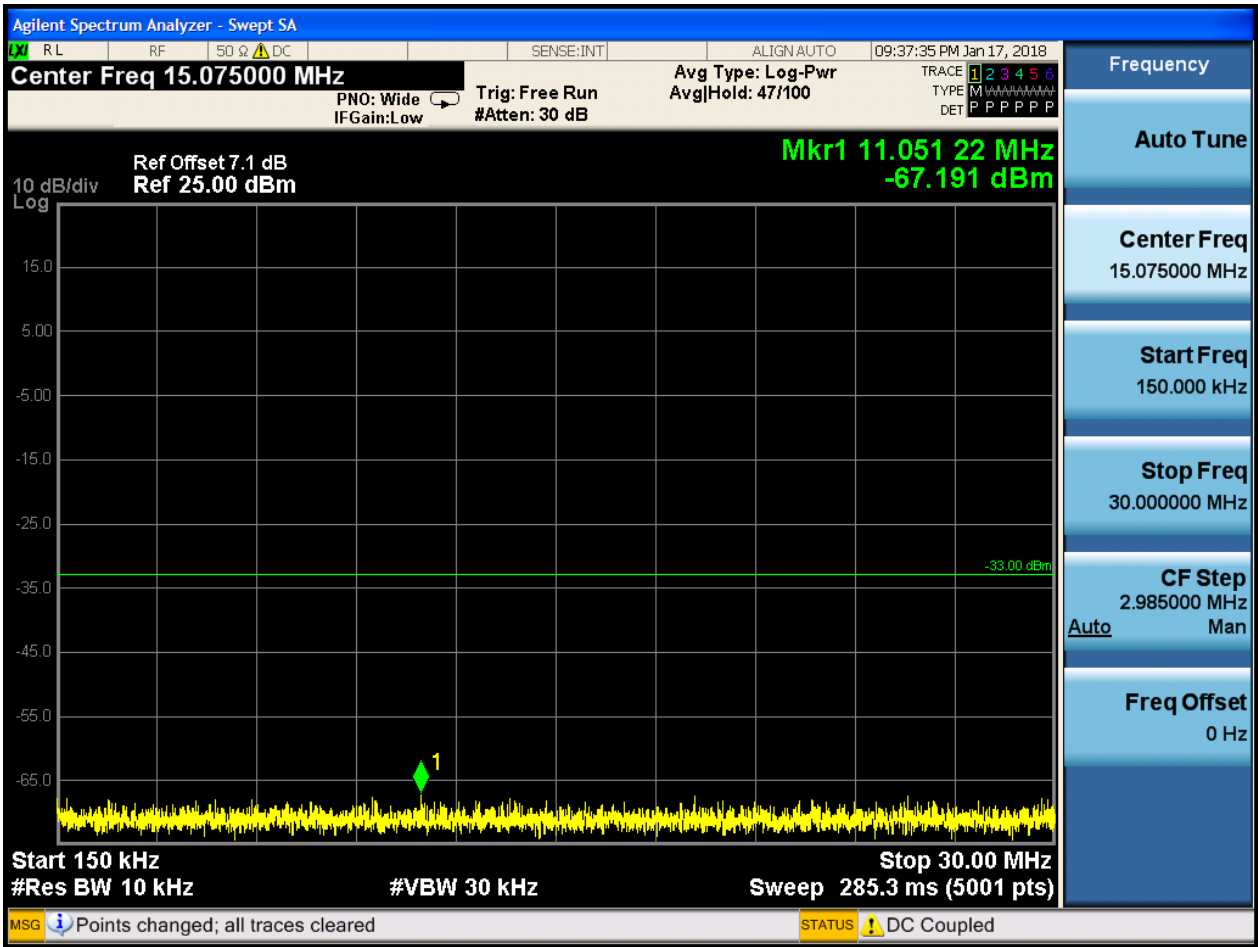


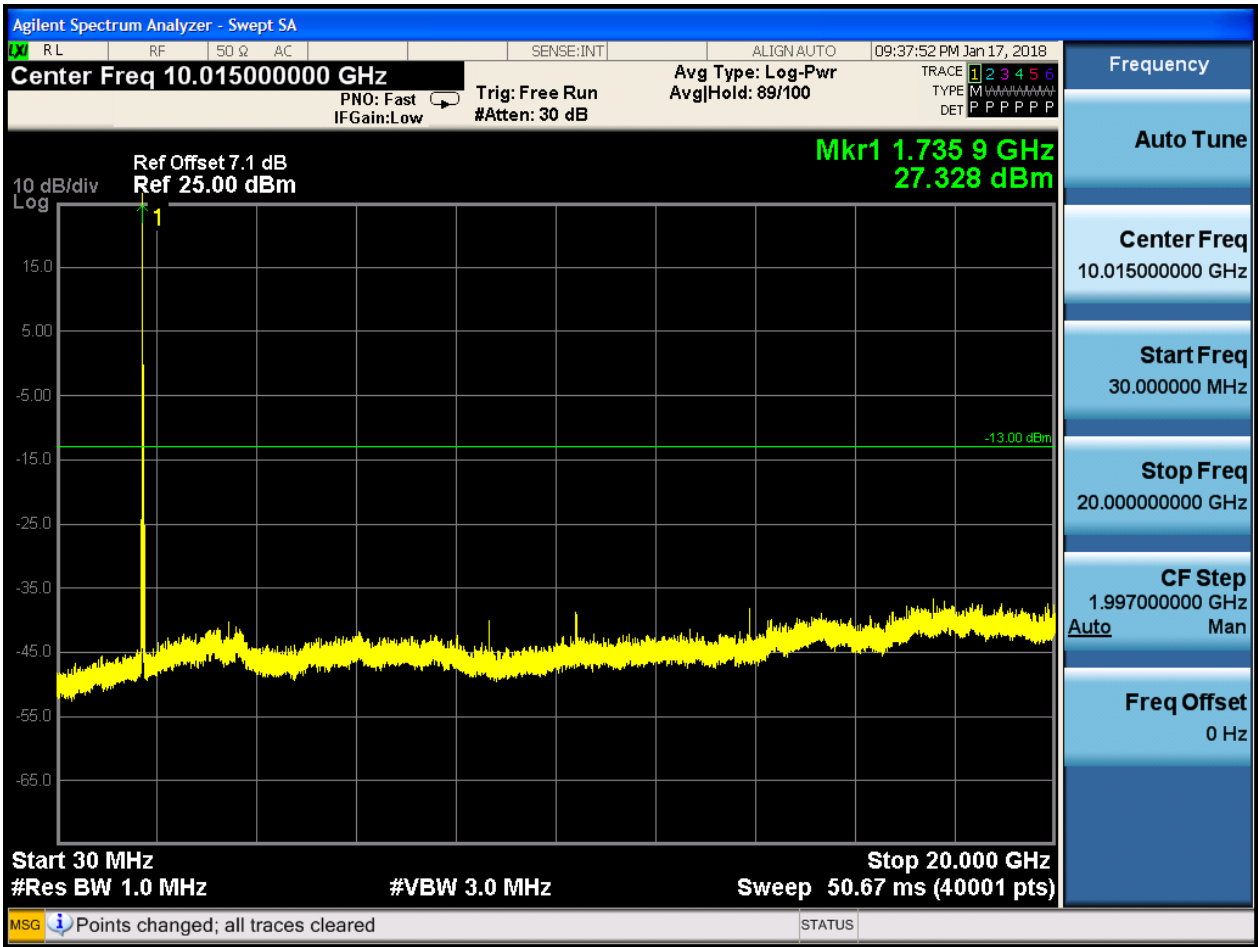


6.1.1.1.6.3 Test Channel = HCH

6.1.1.1.6.3.1 Test RB = RB1#0







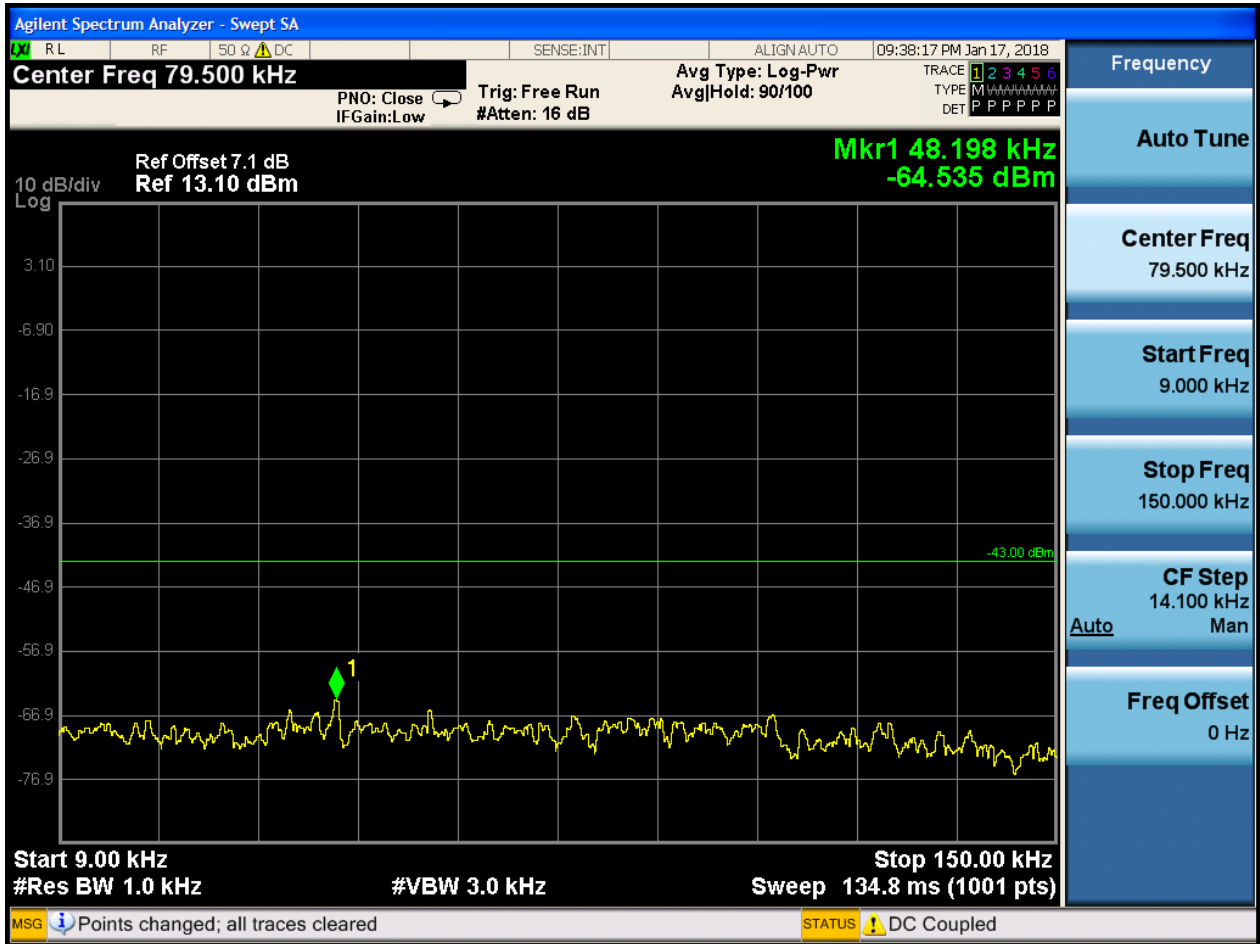


6.1.1.2 Test Mode = LTE/TM2

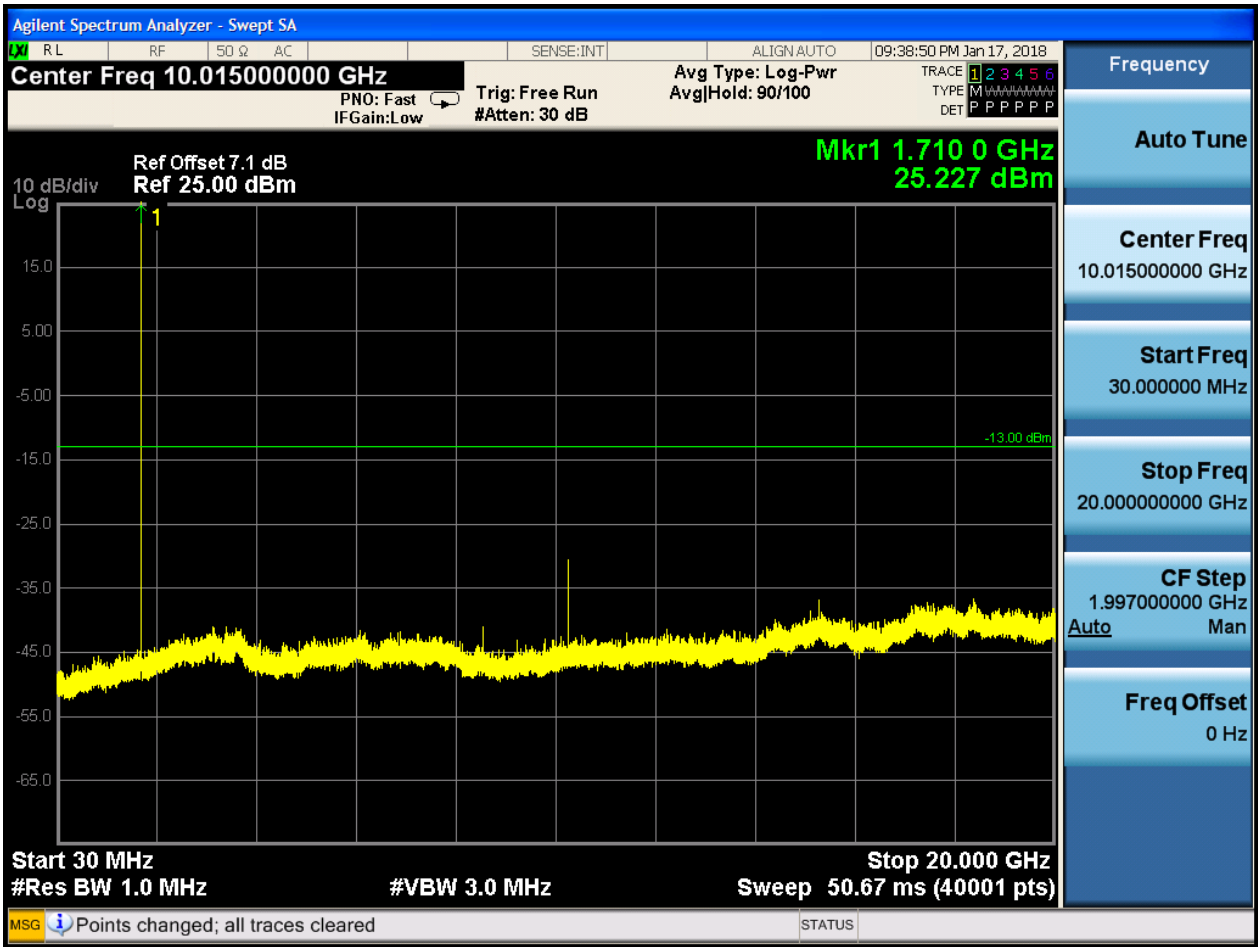
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0

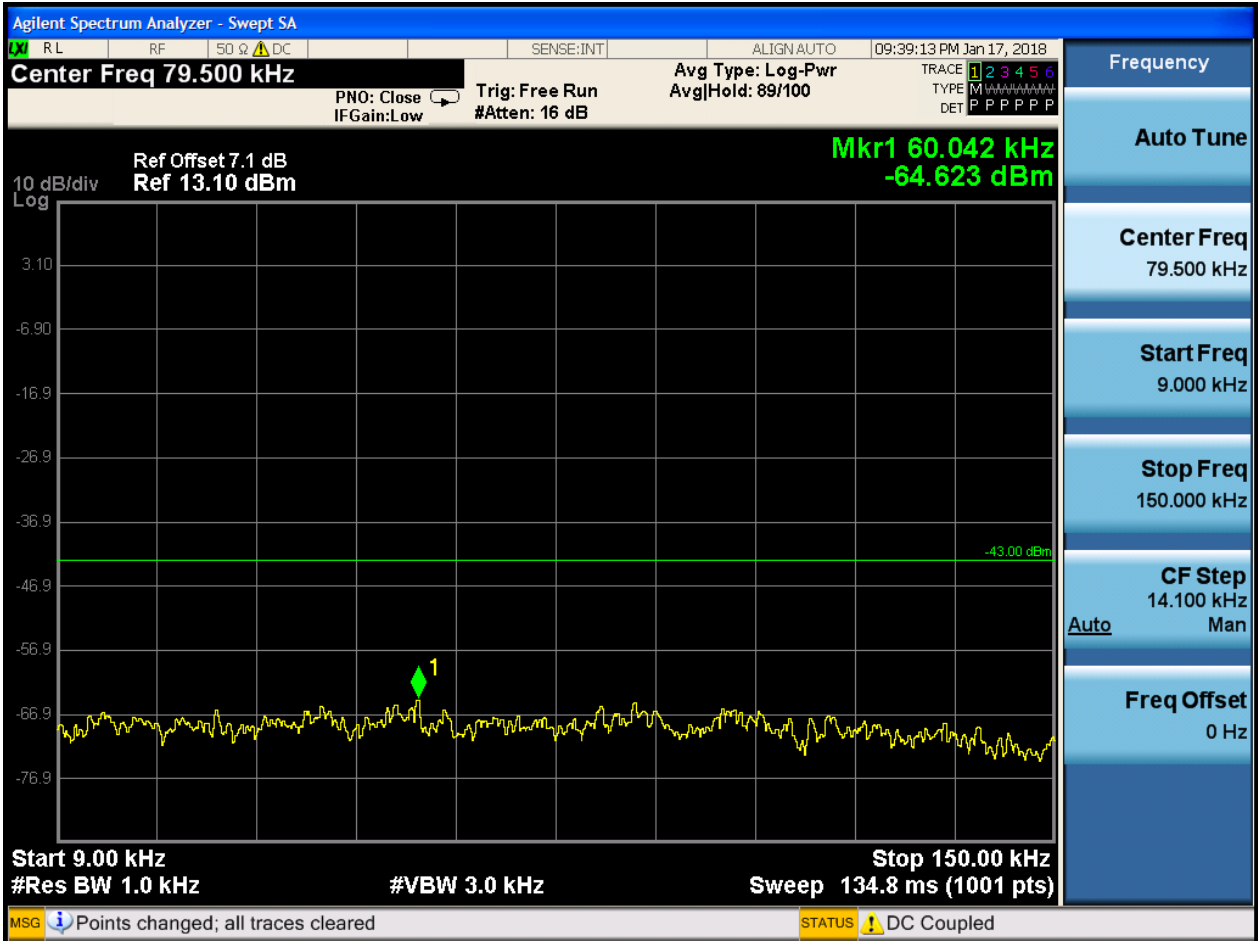


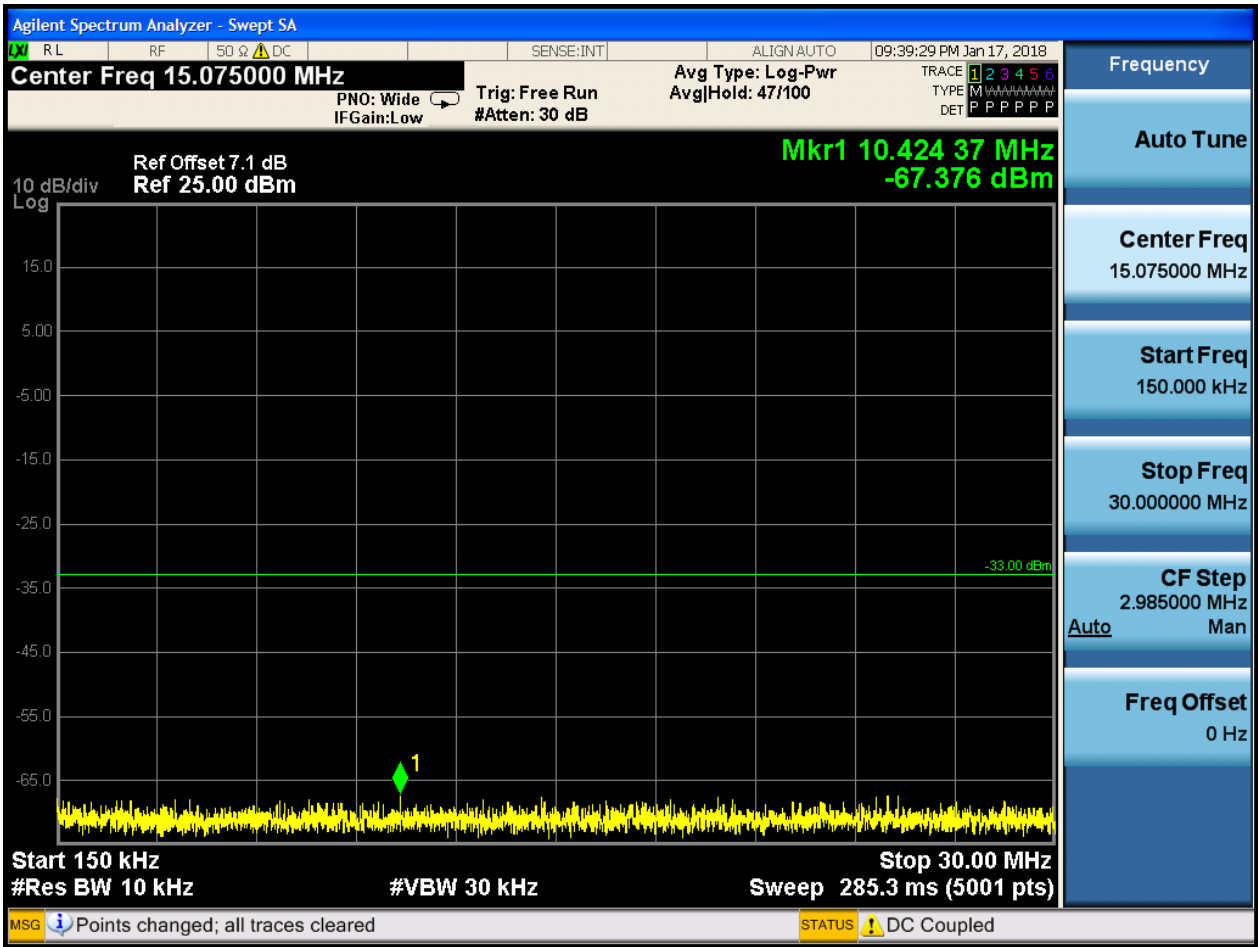


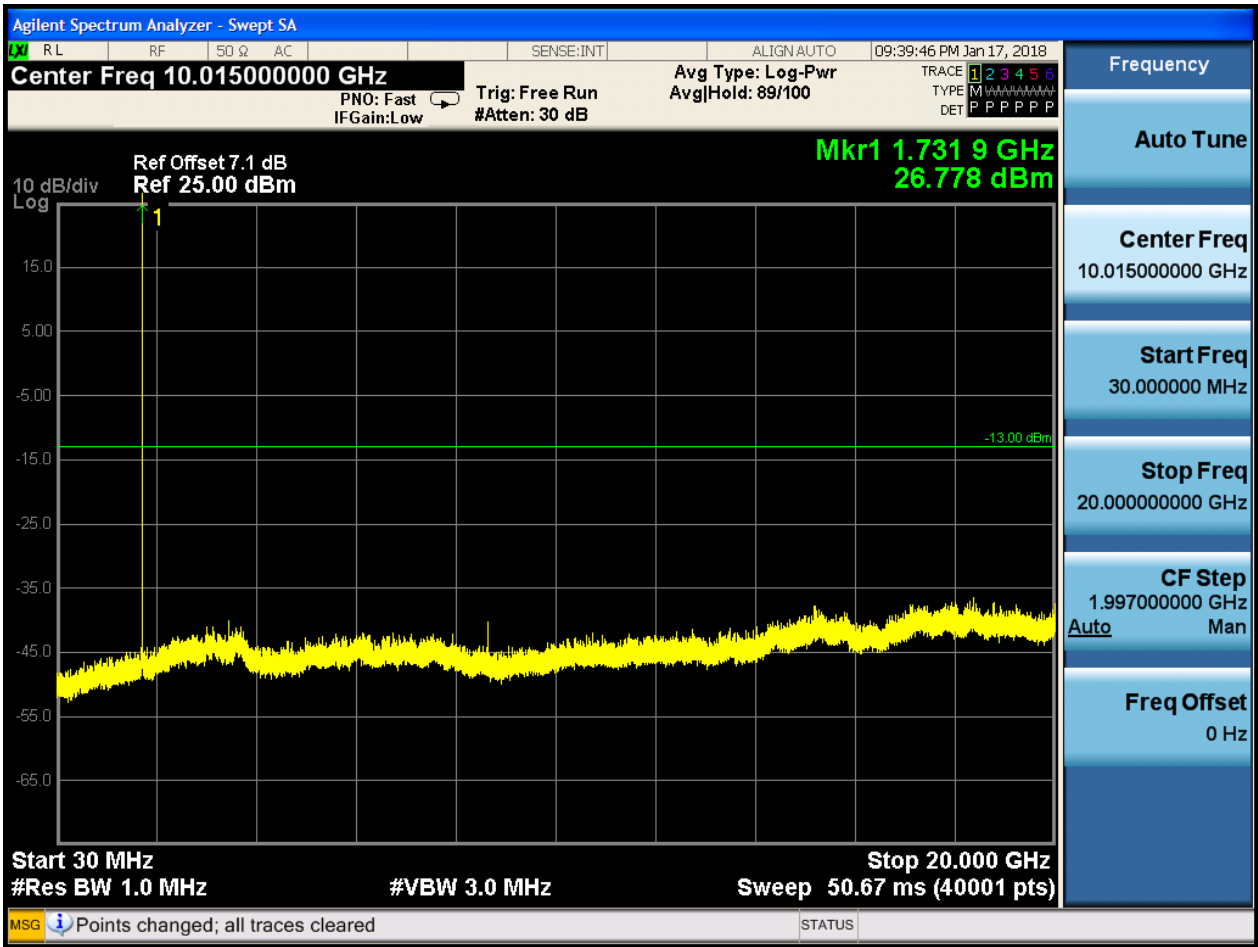


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



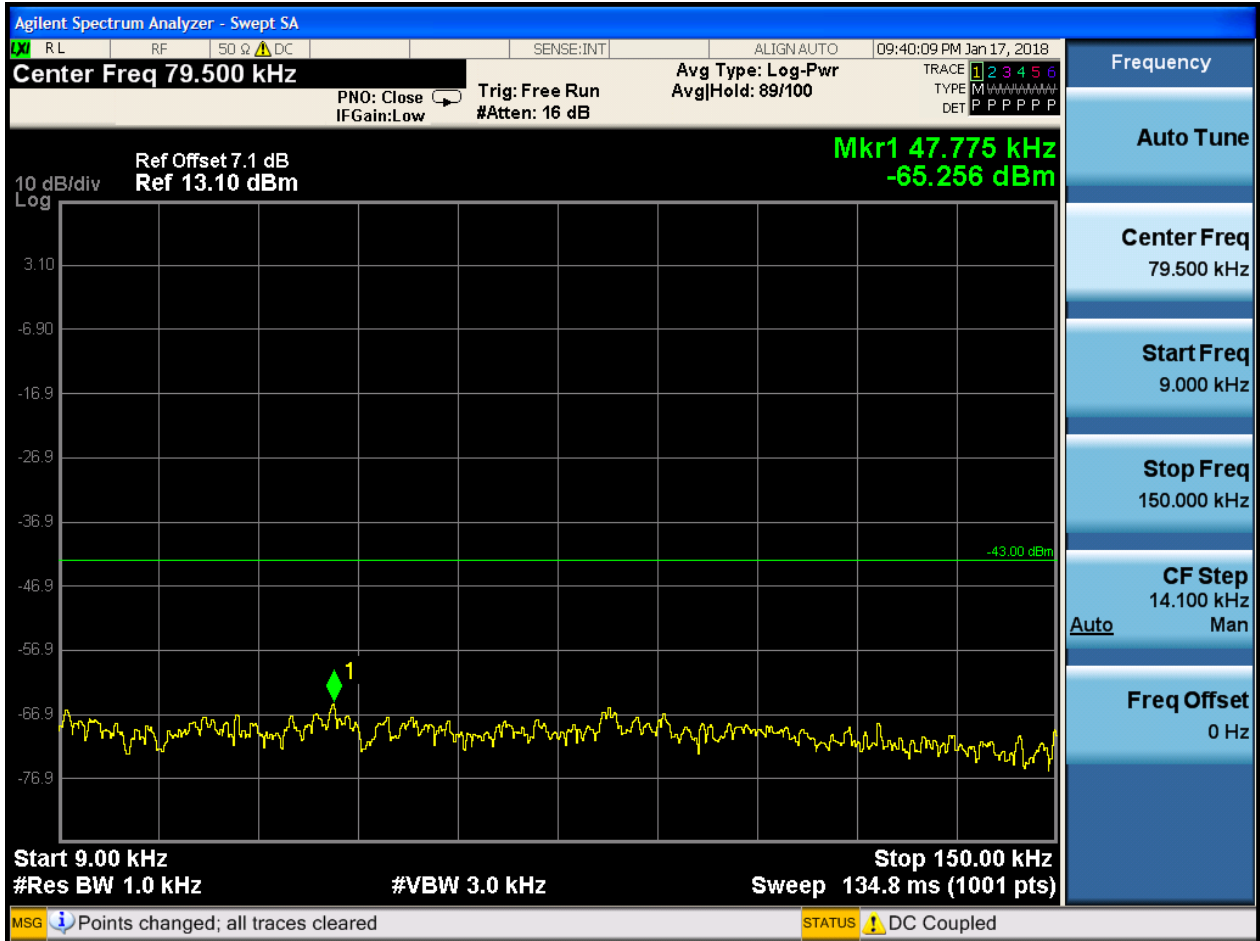


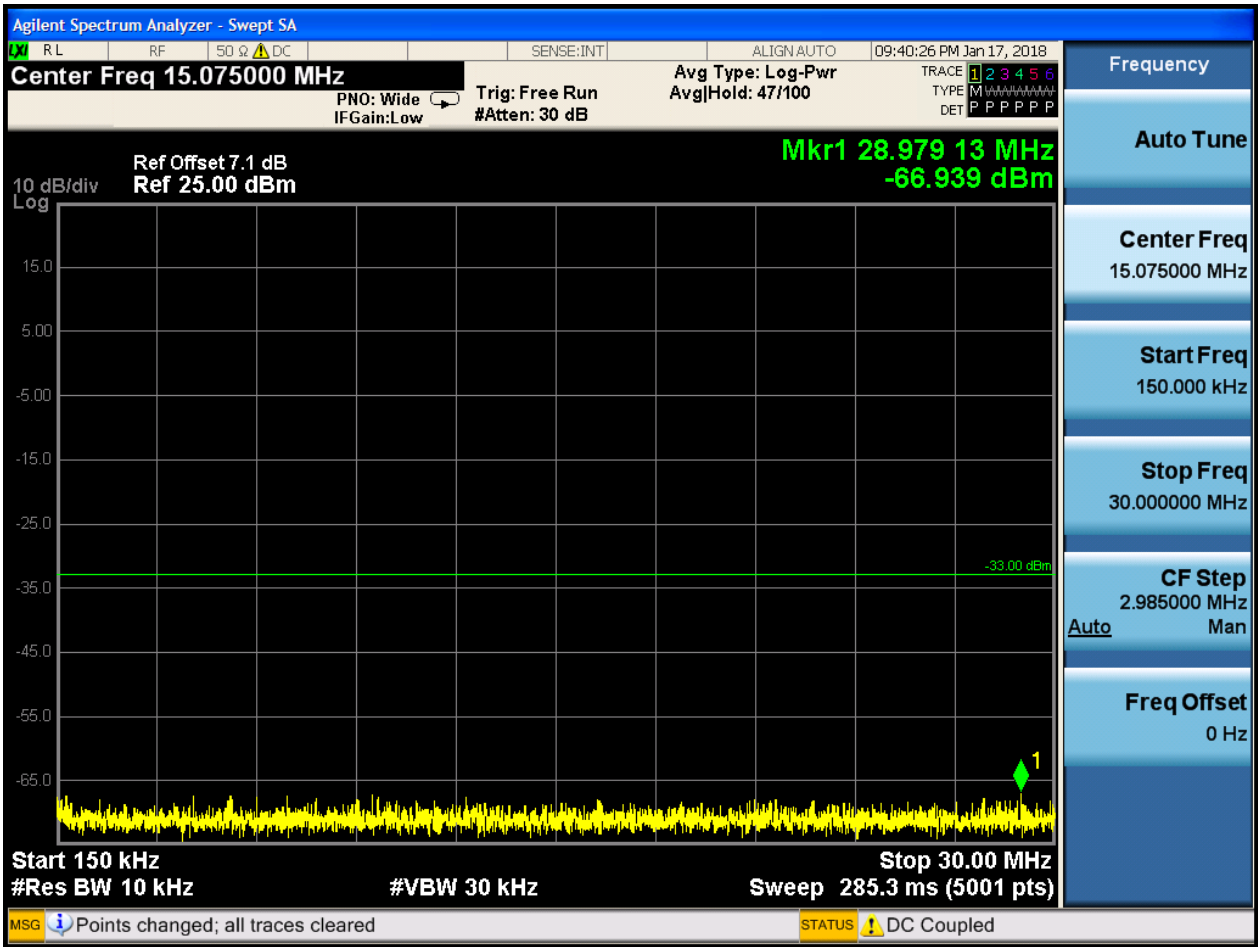


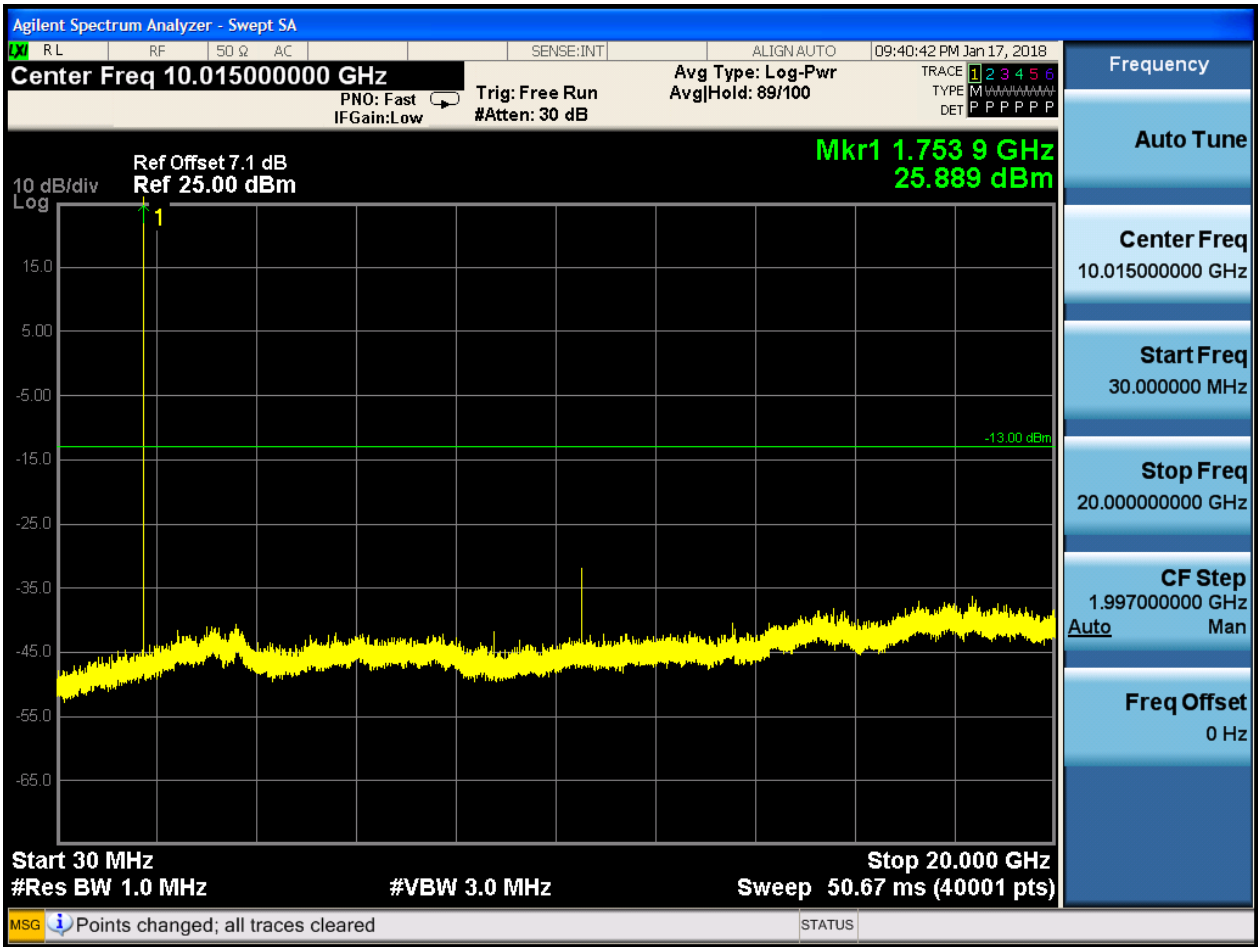


6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





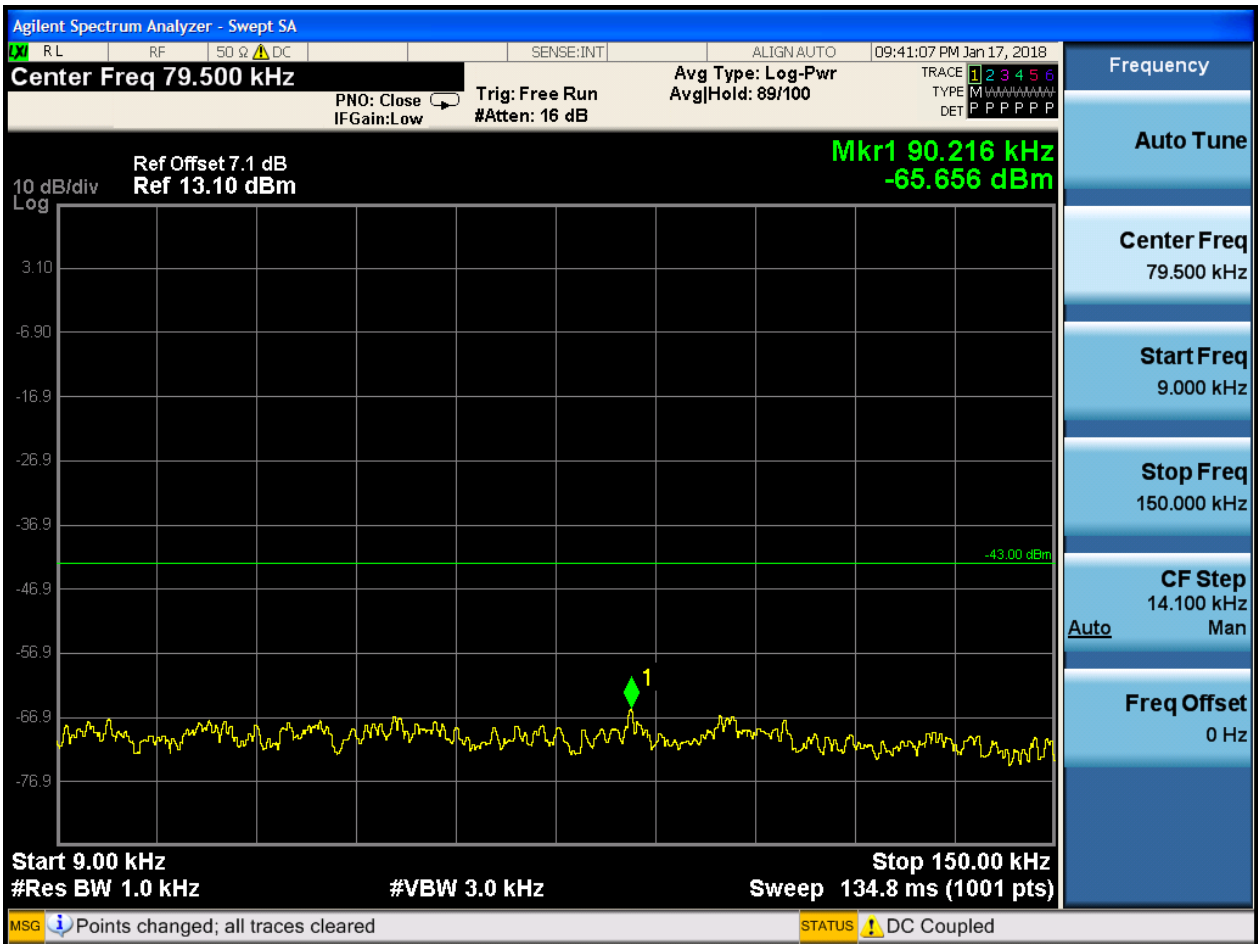


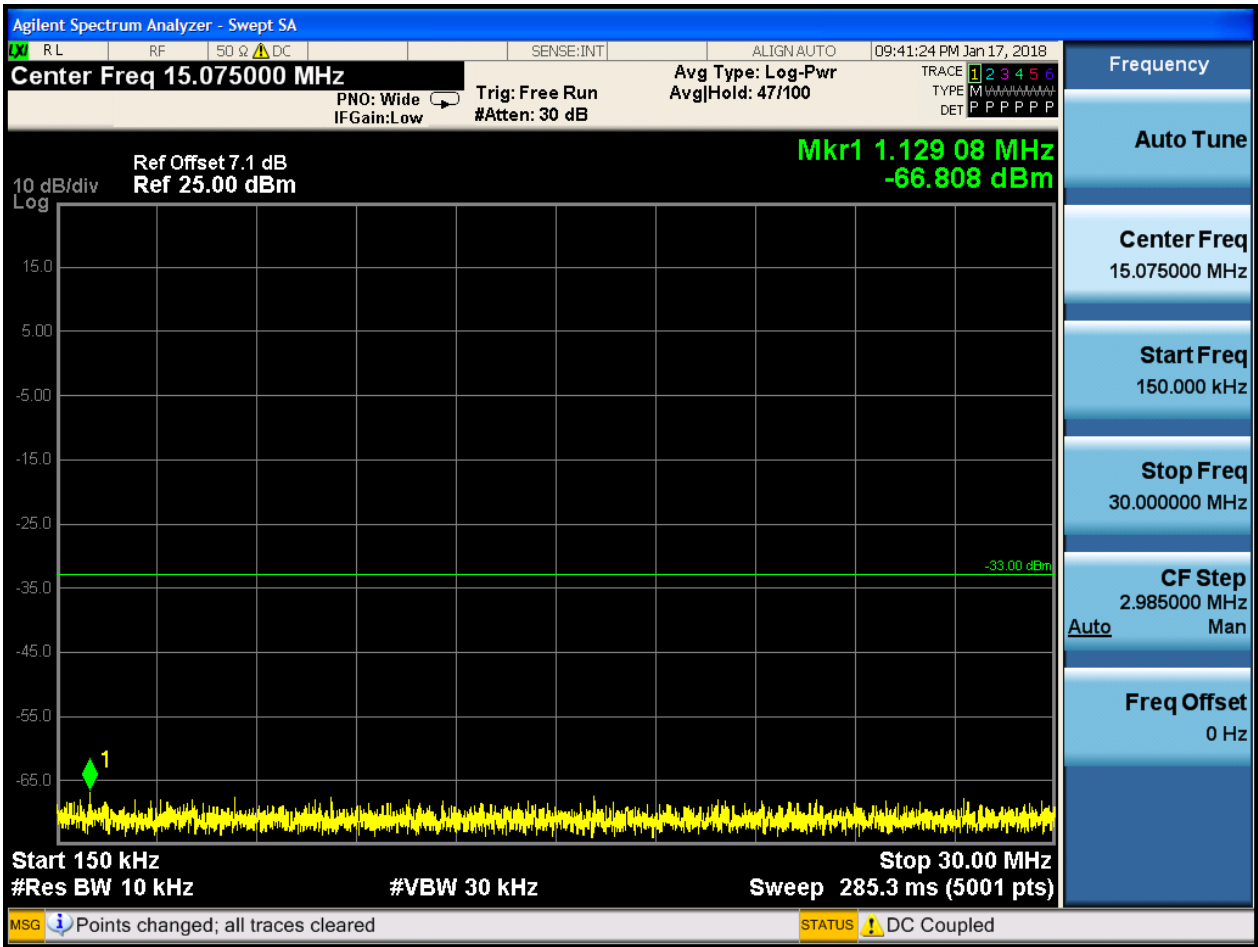


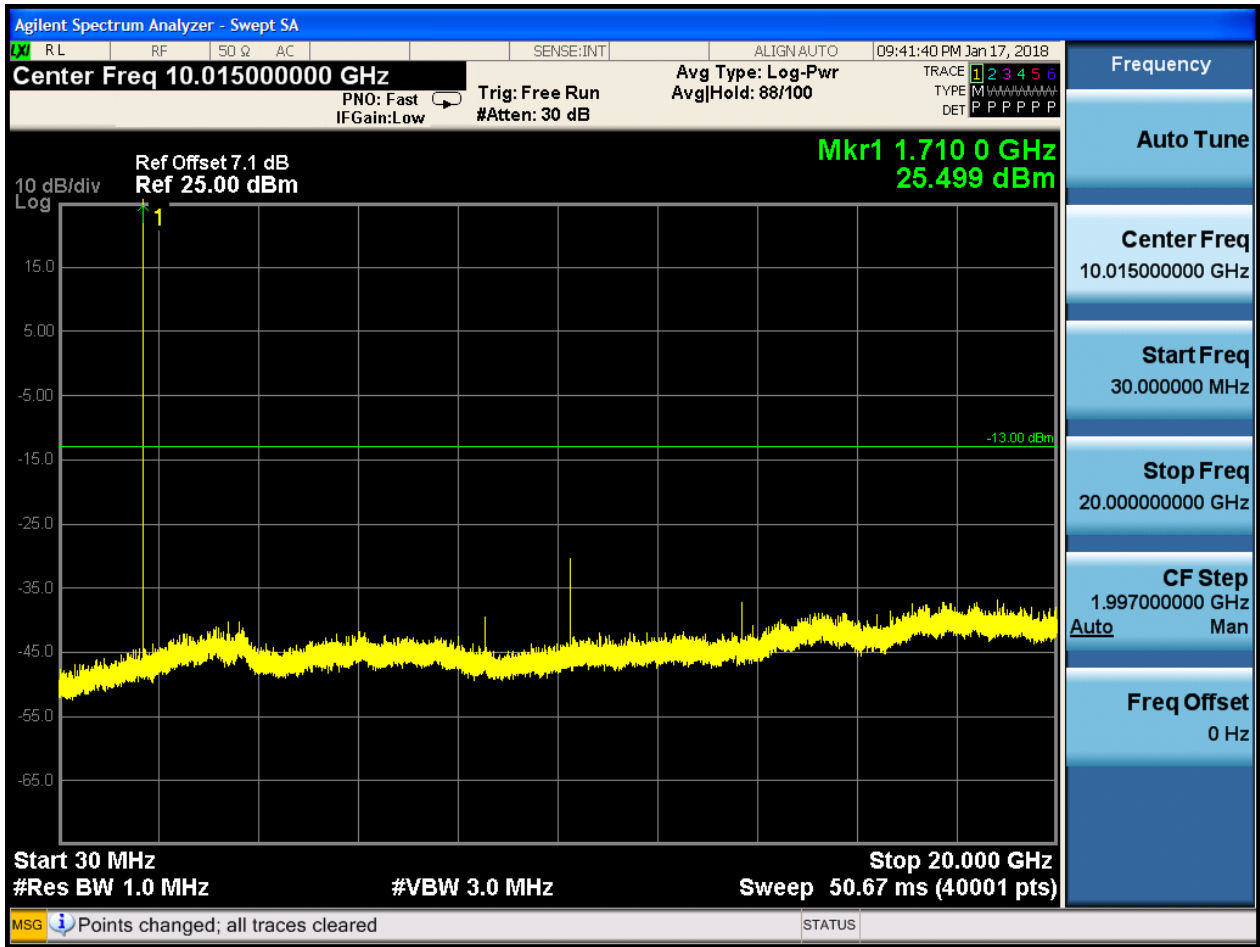
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



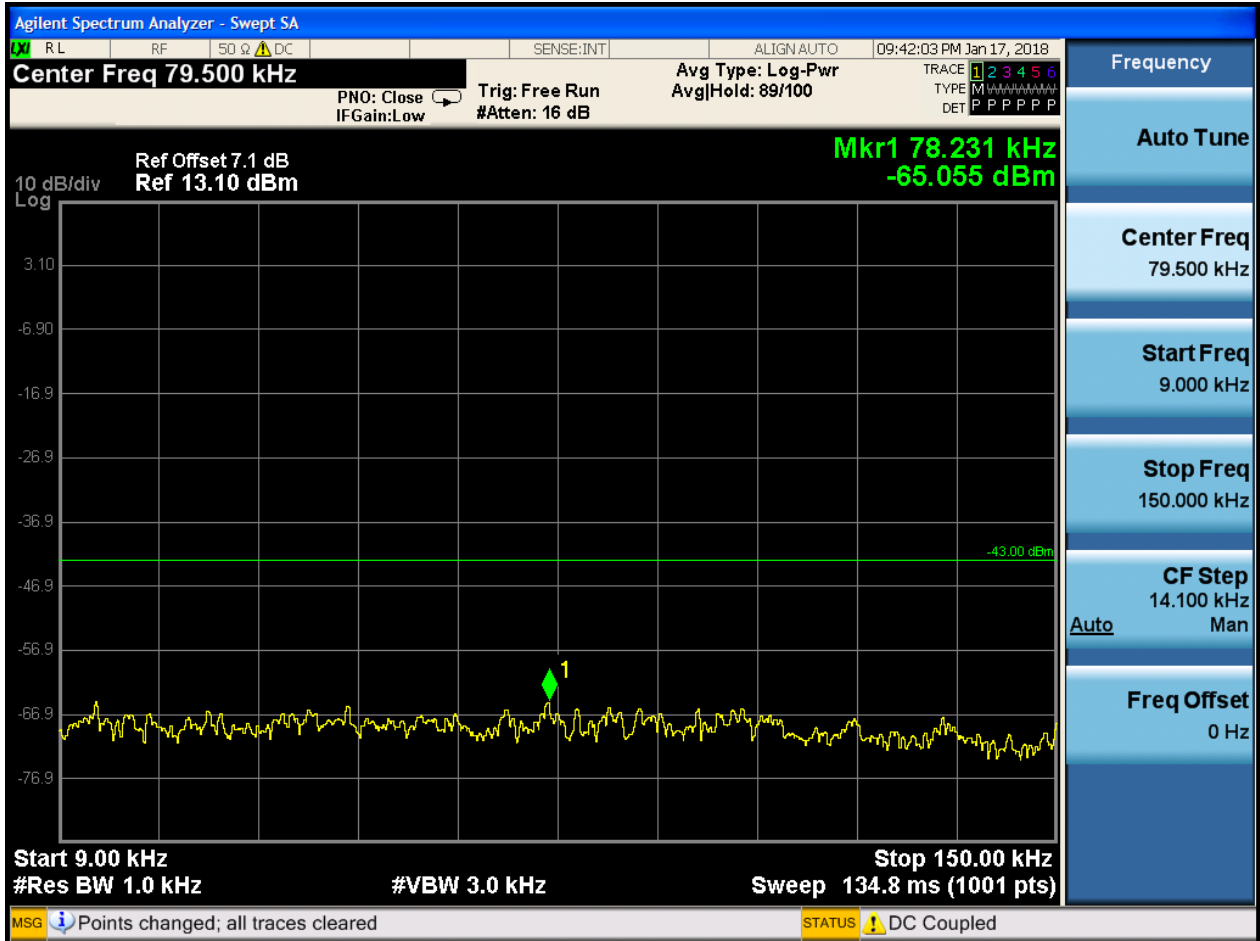


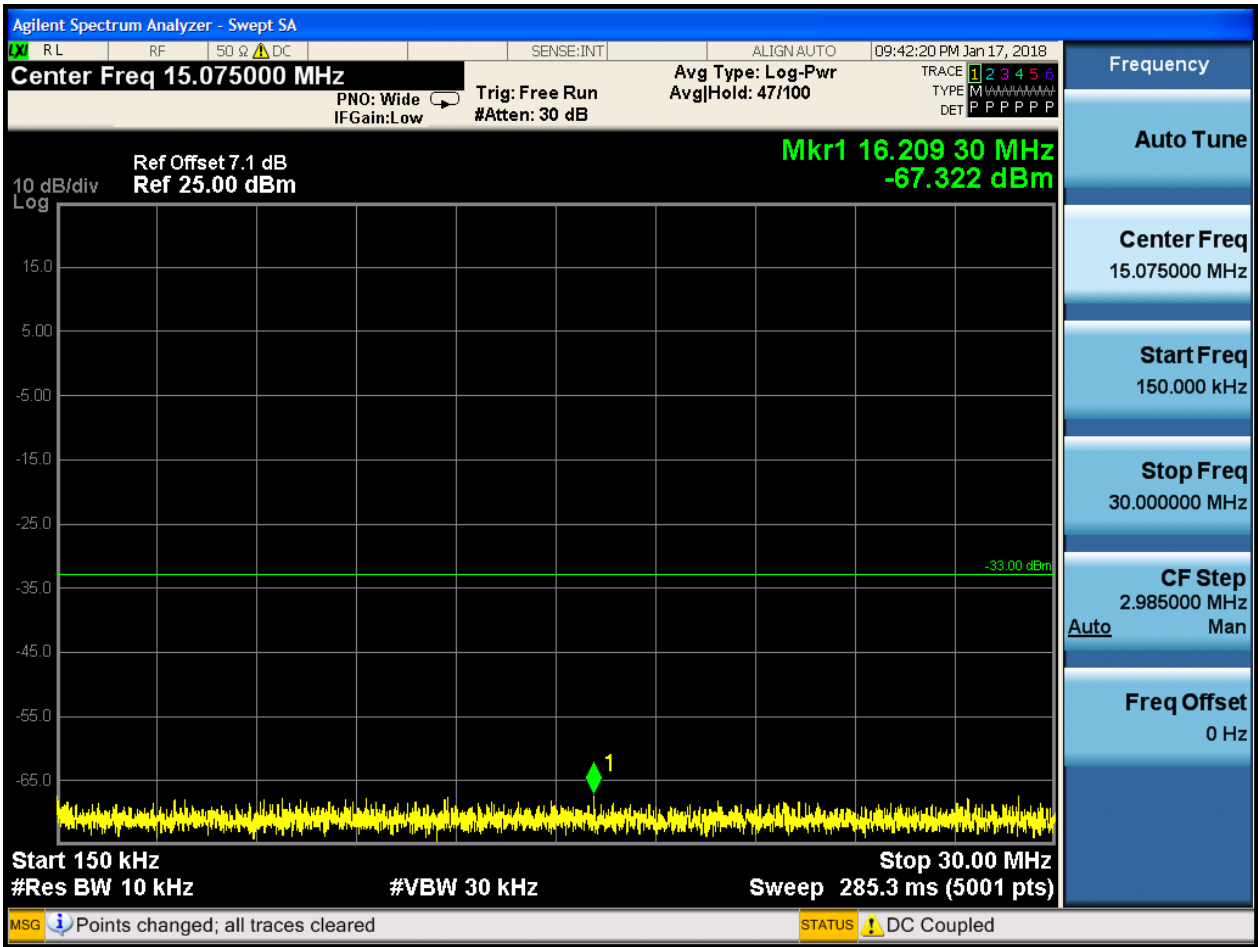


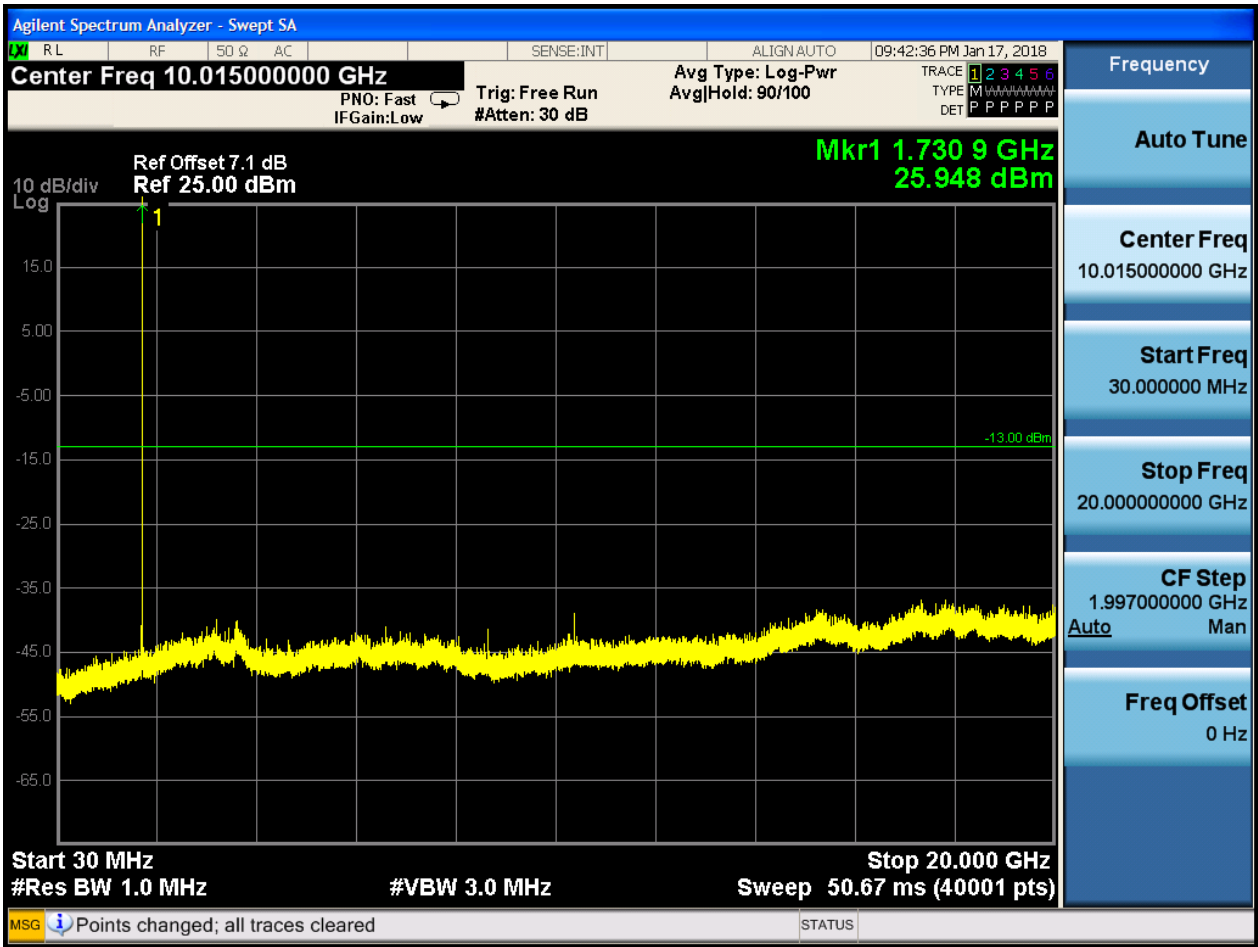


6.1.1.2.2 Test Channel = MCH

6.1.1.2.2.1 Test RB = RB1#0



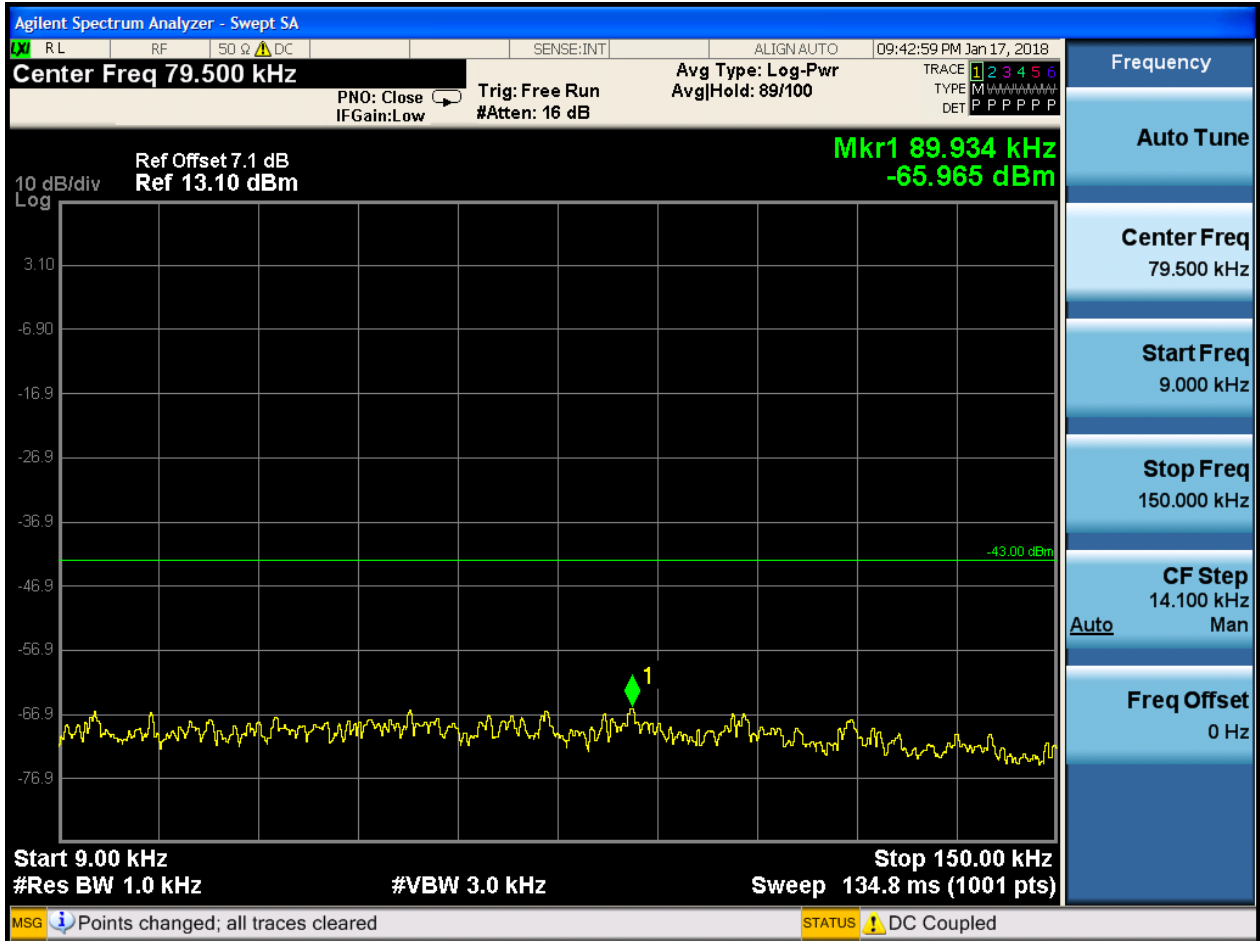


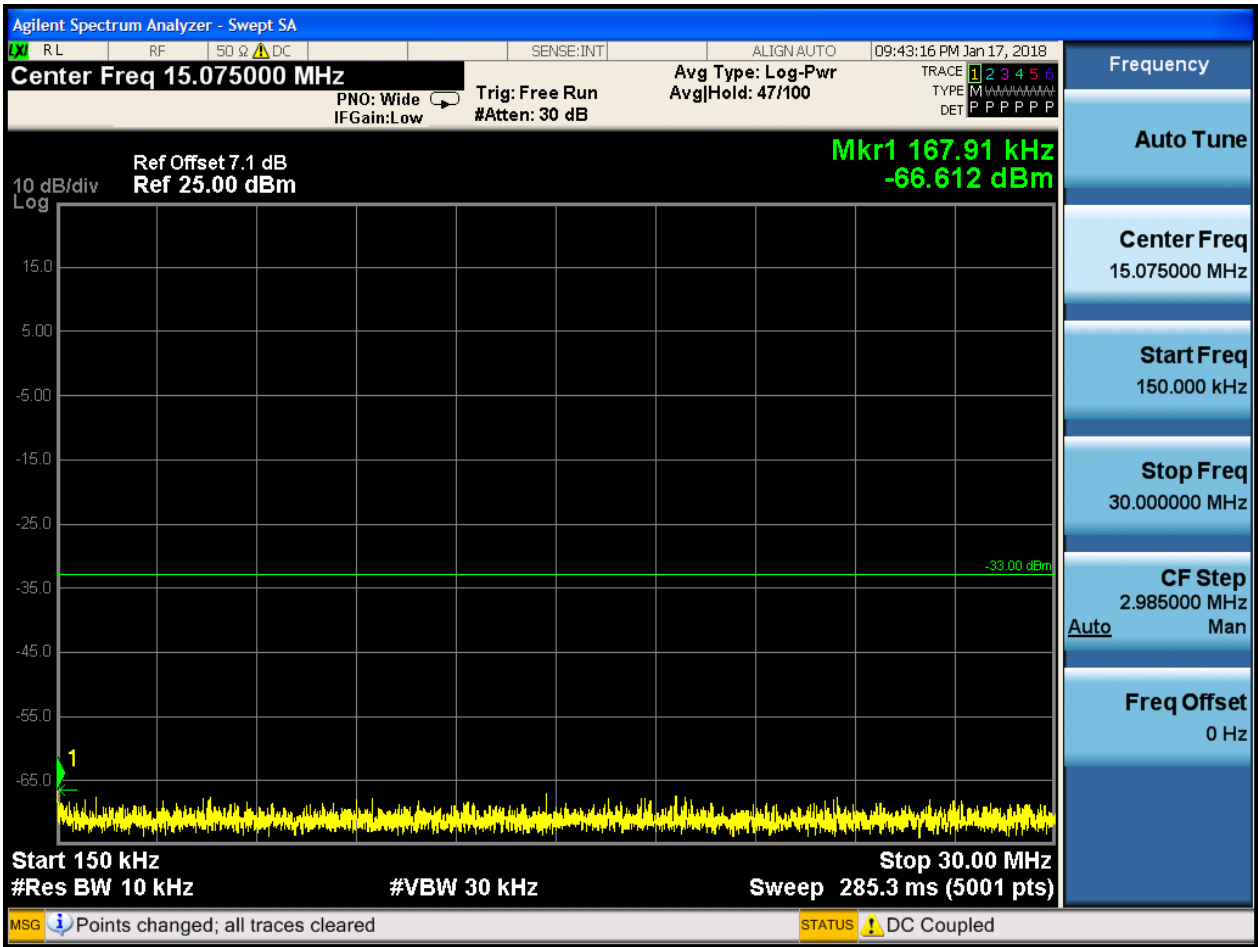


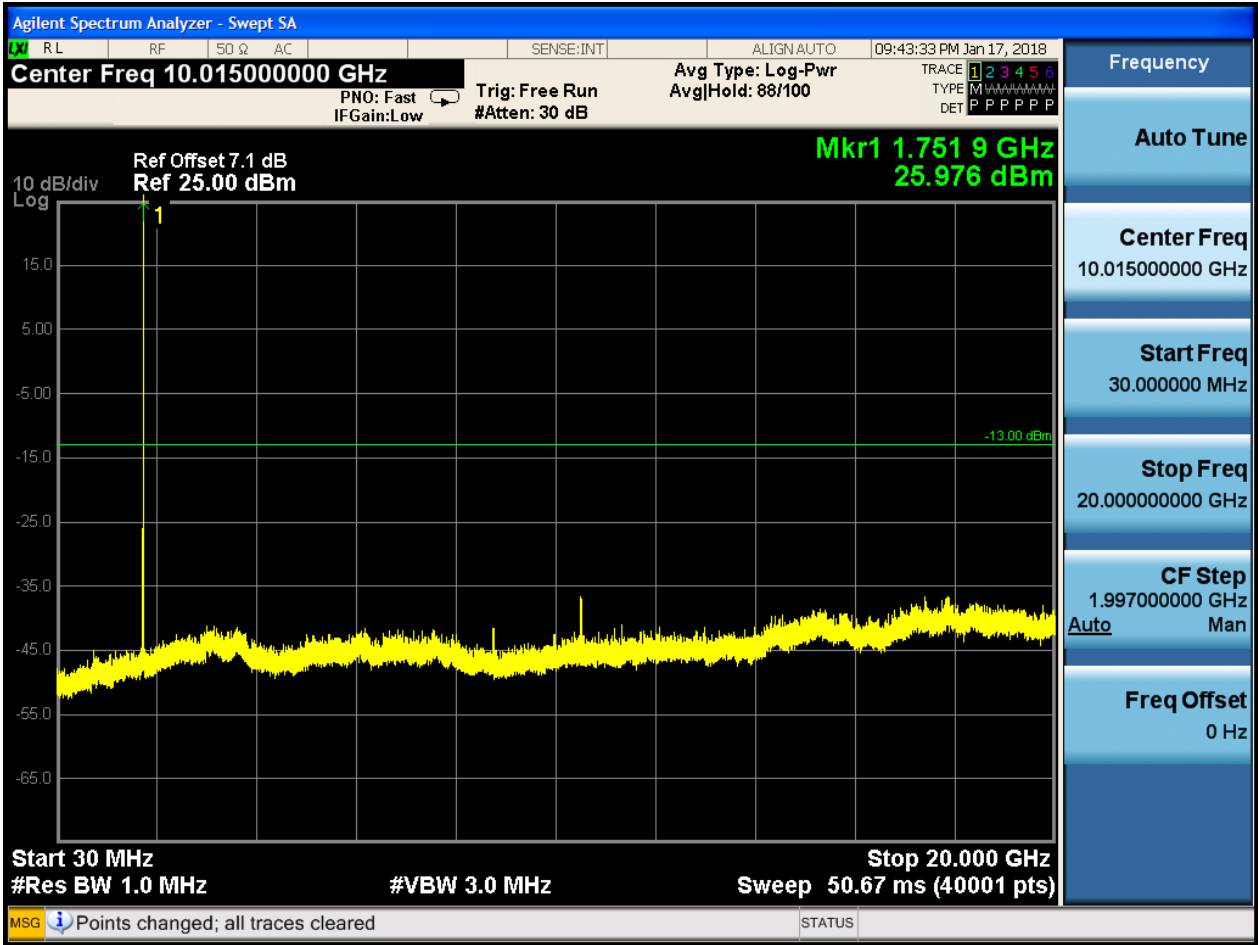


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





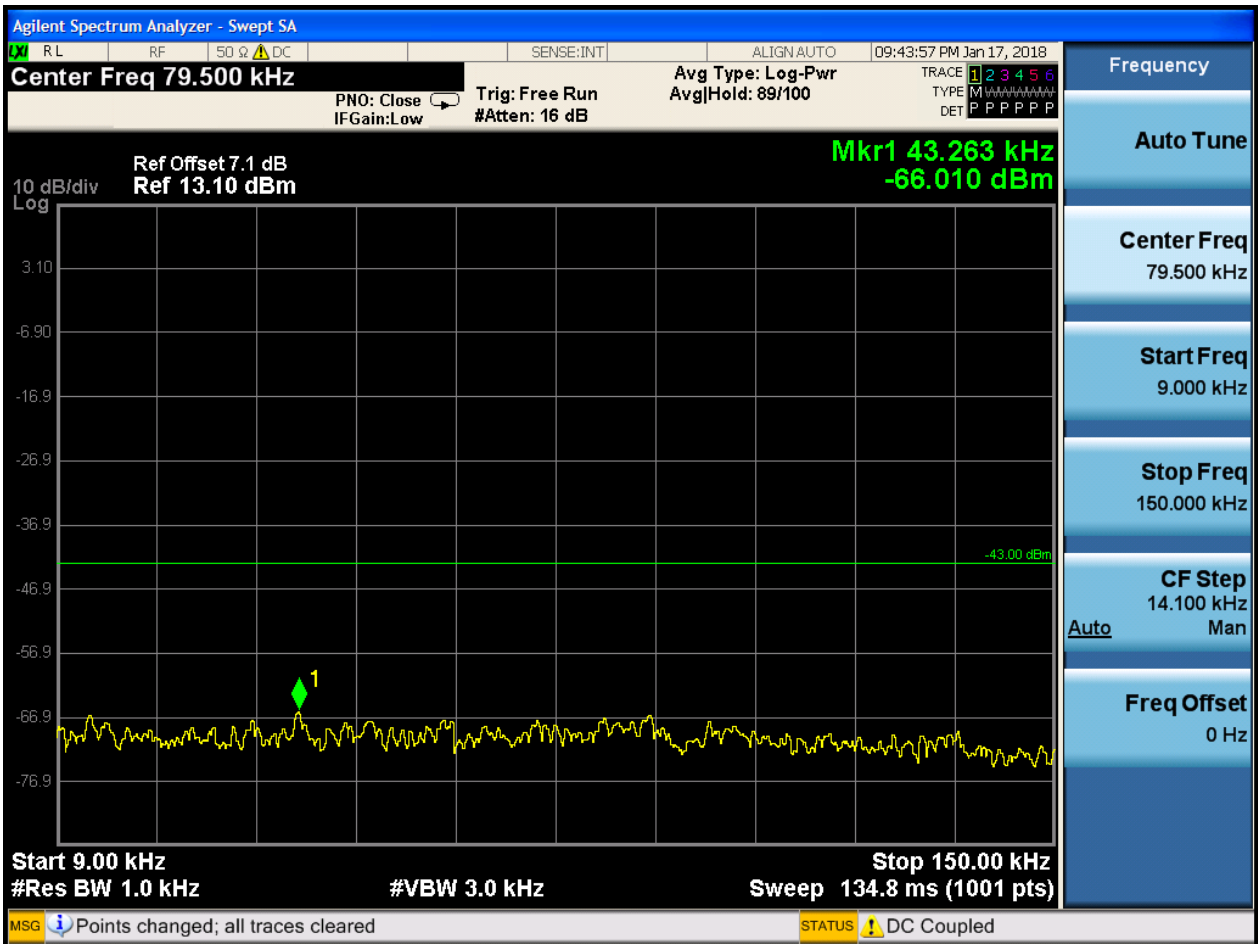


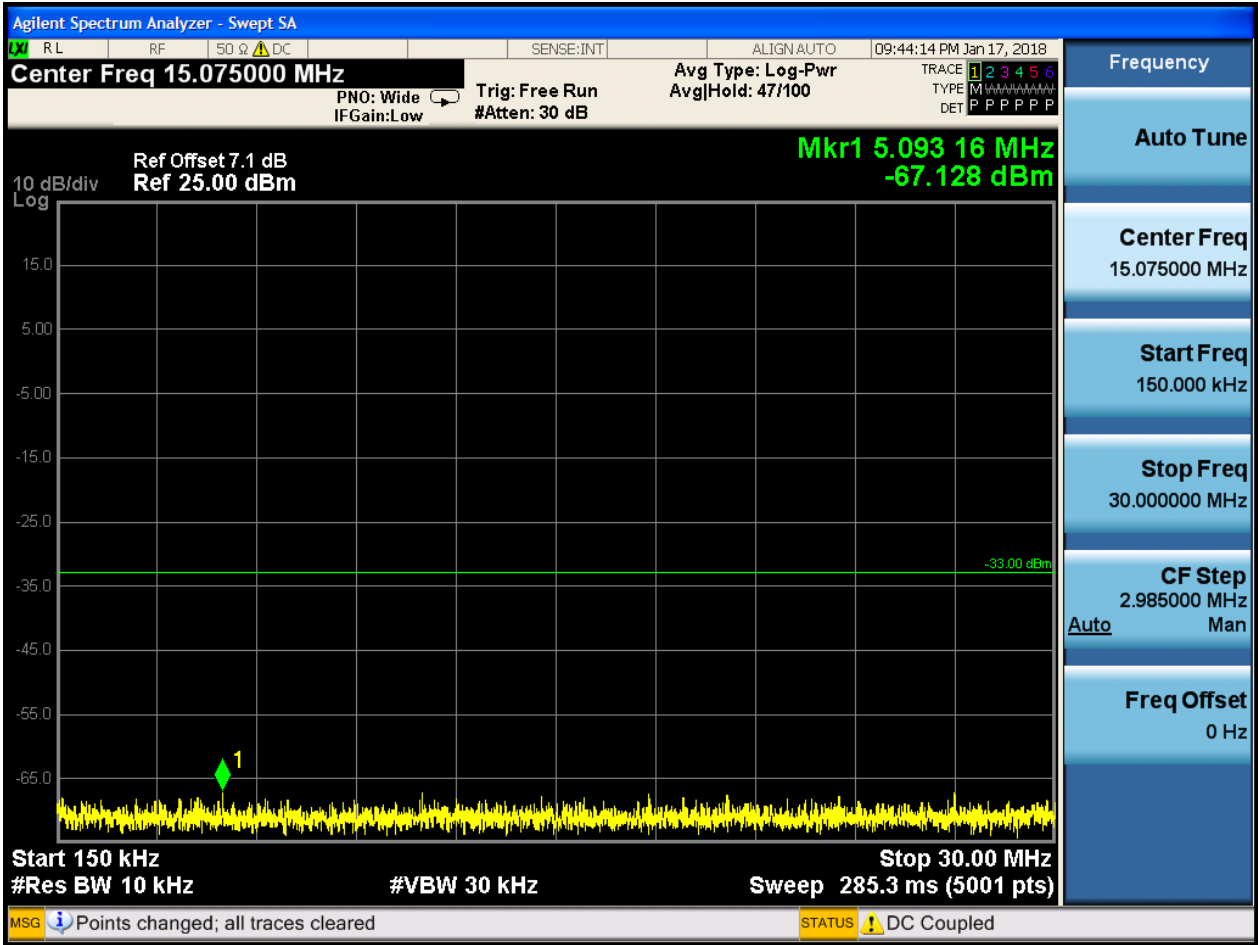


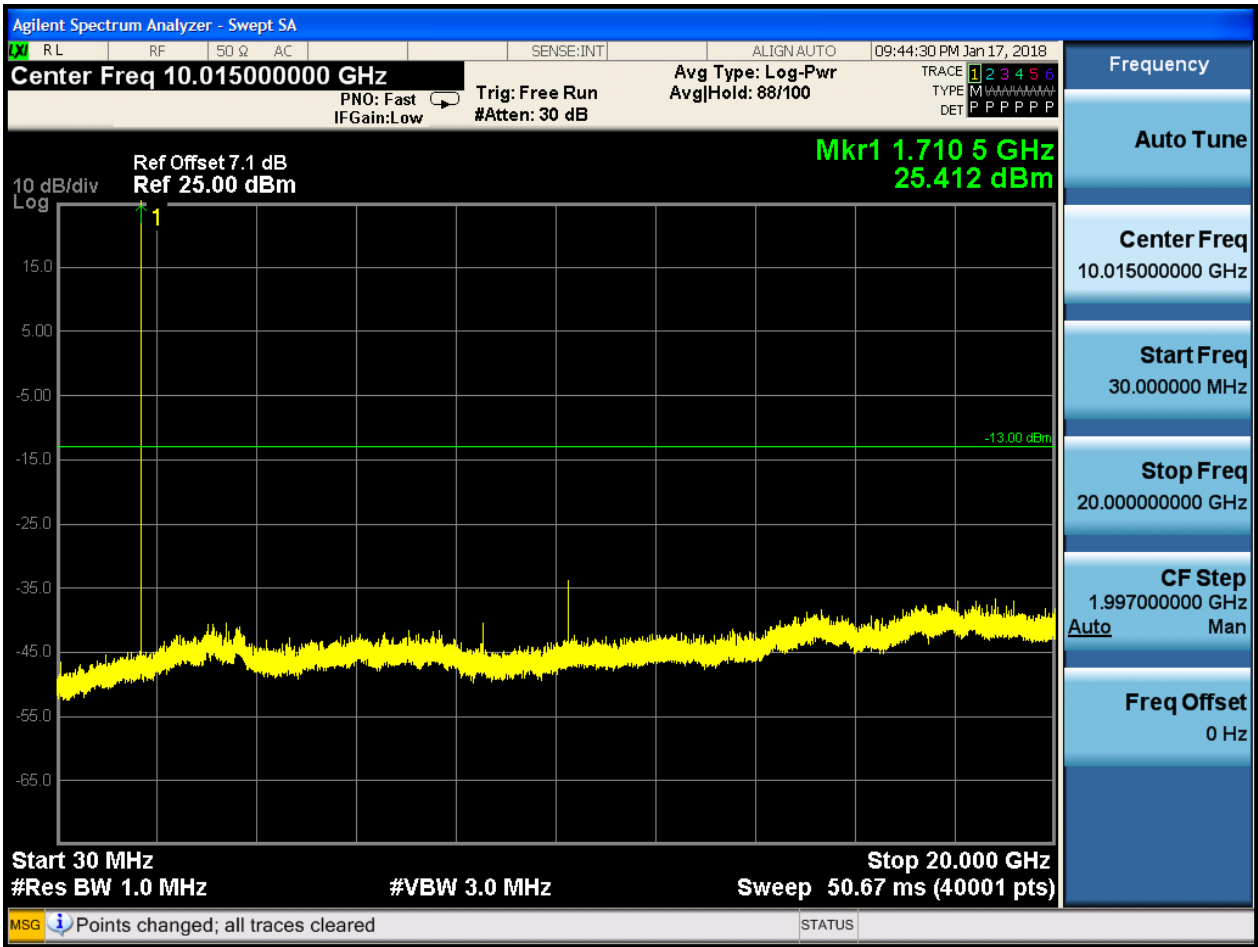
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



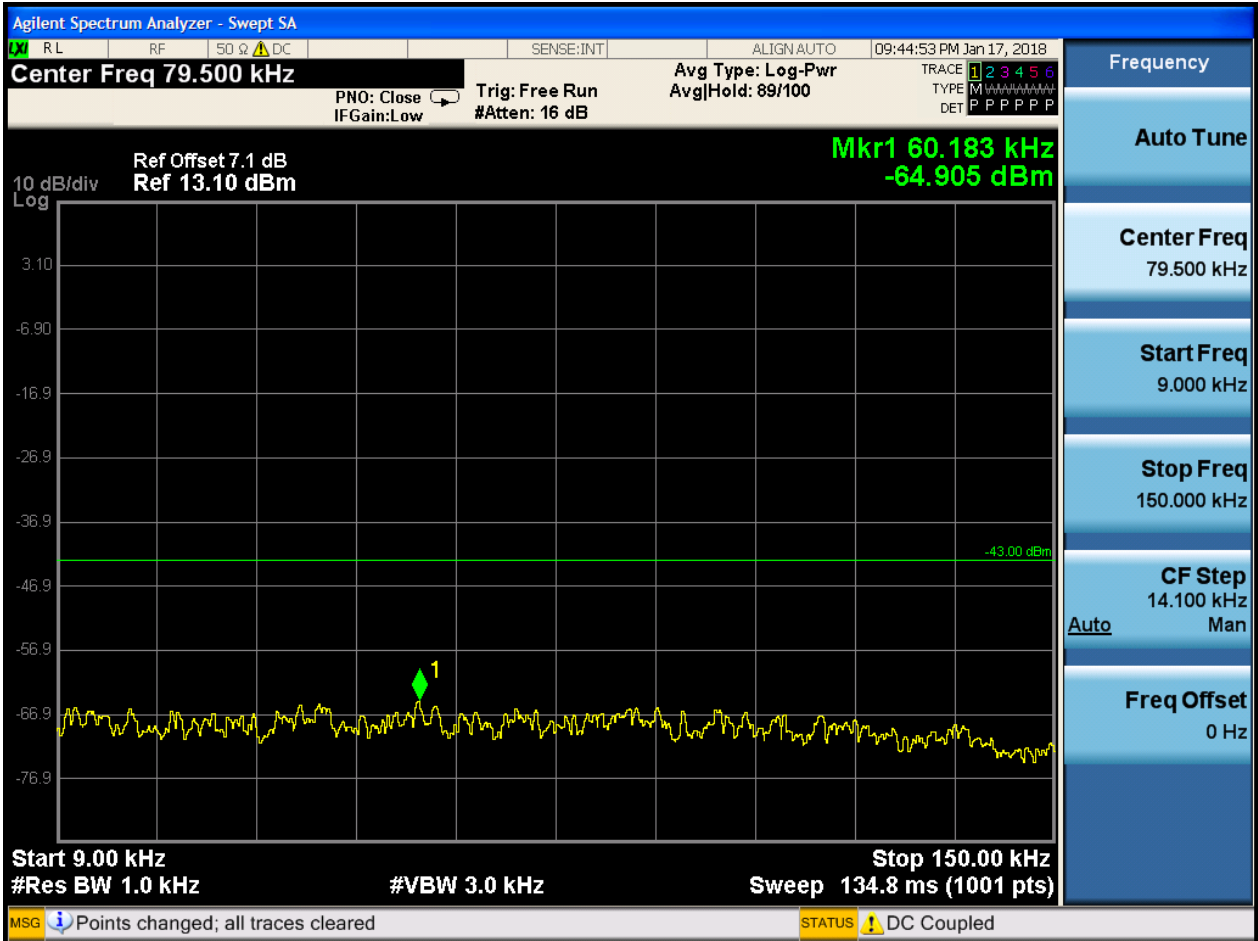


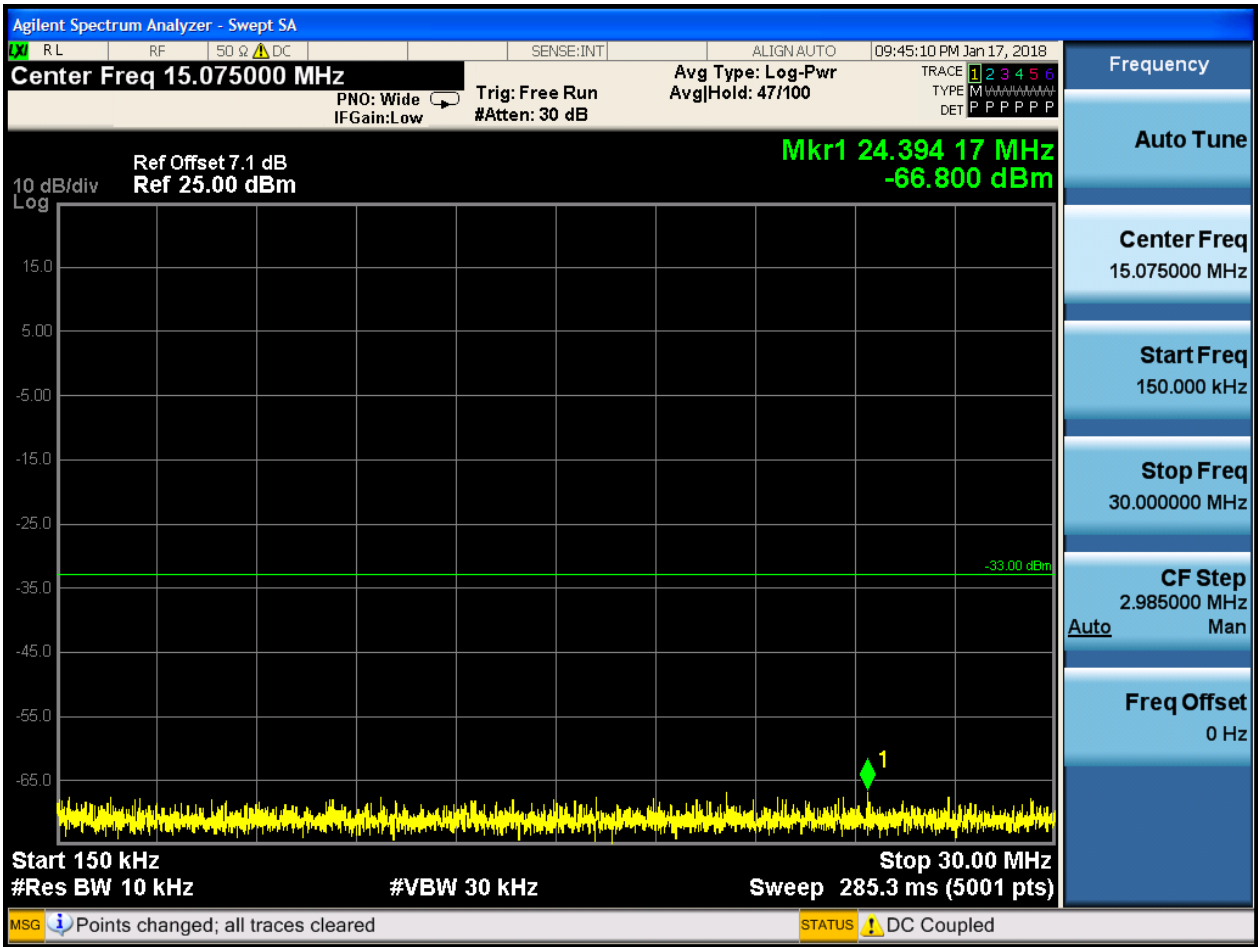


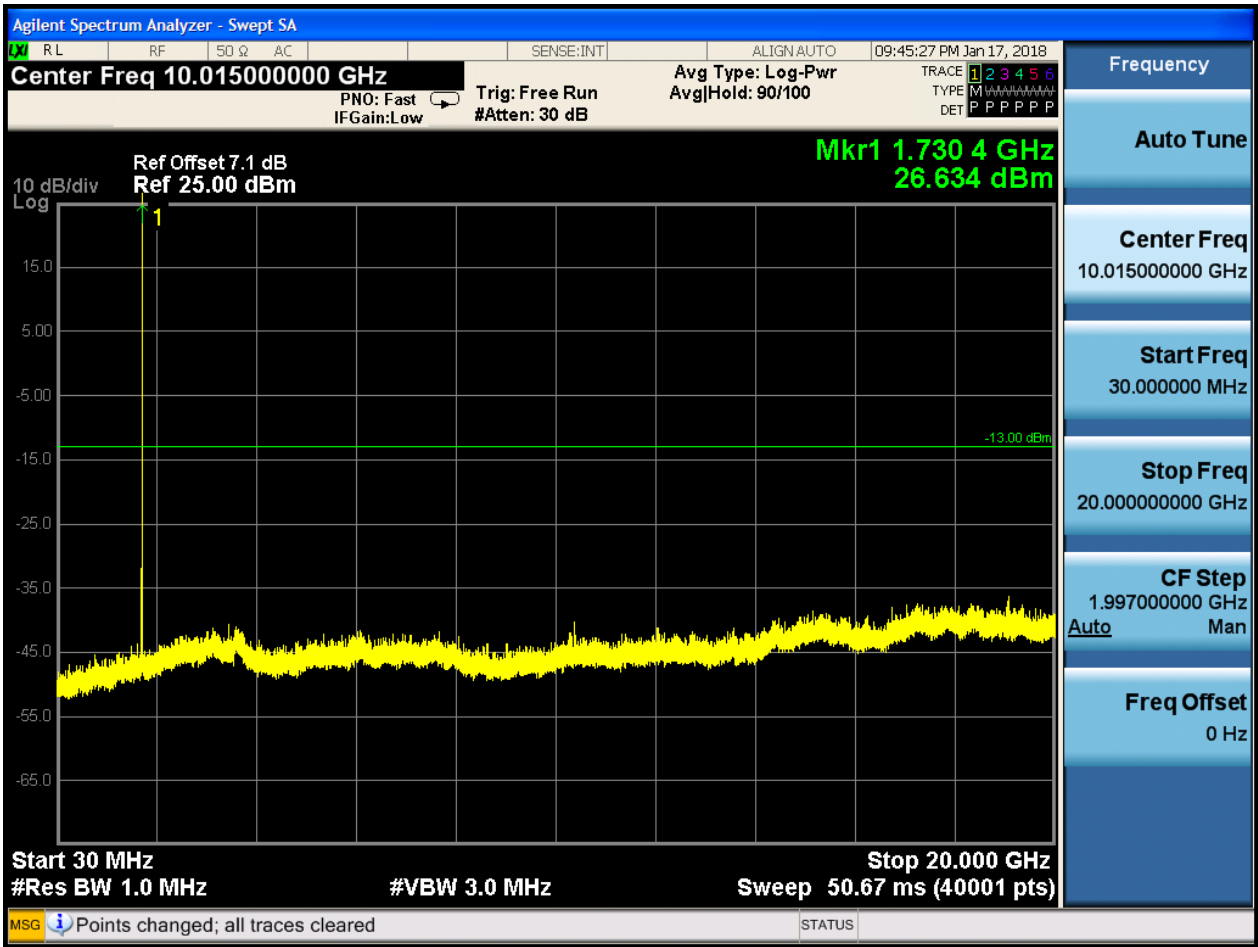


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0

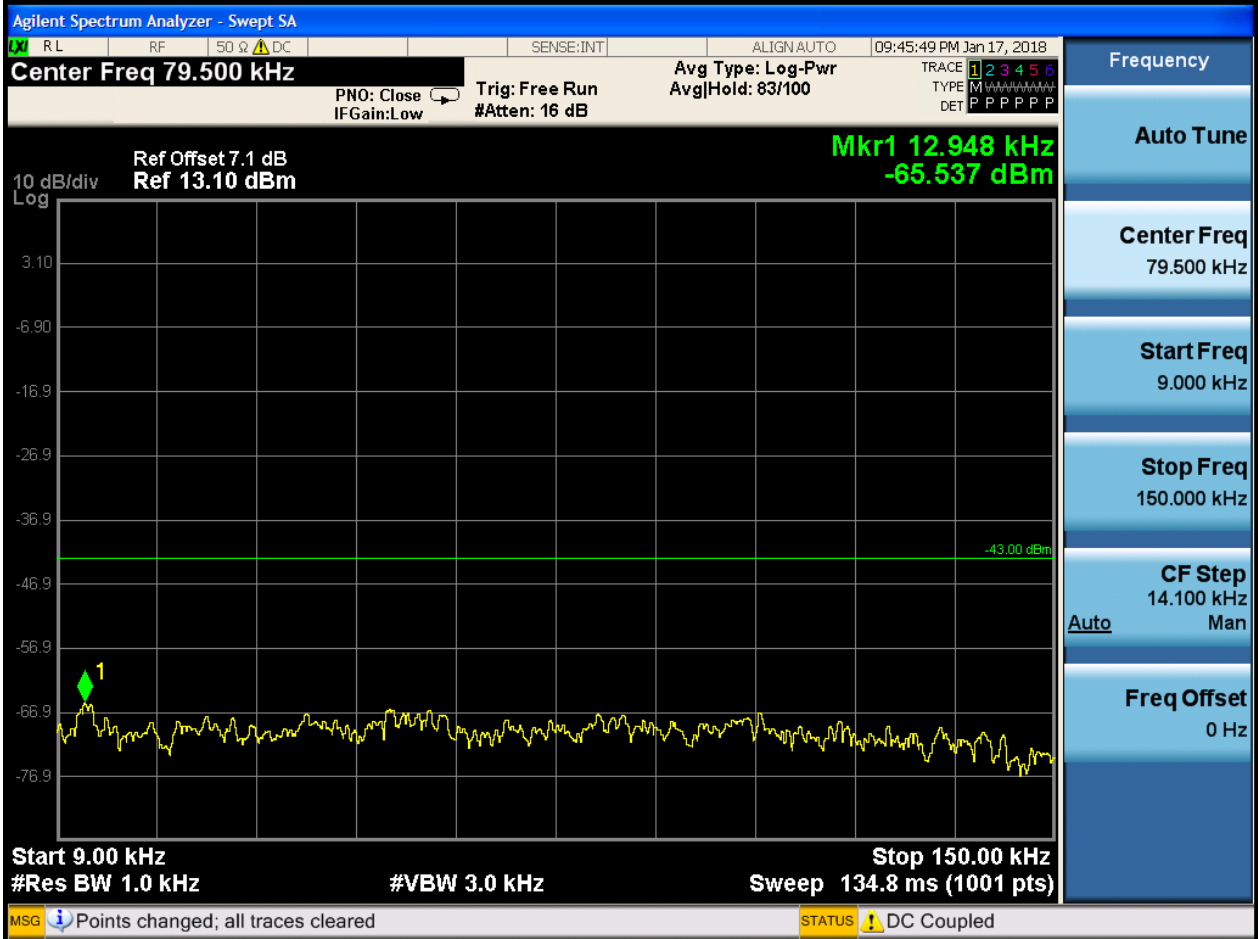


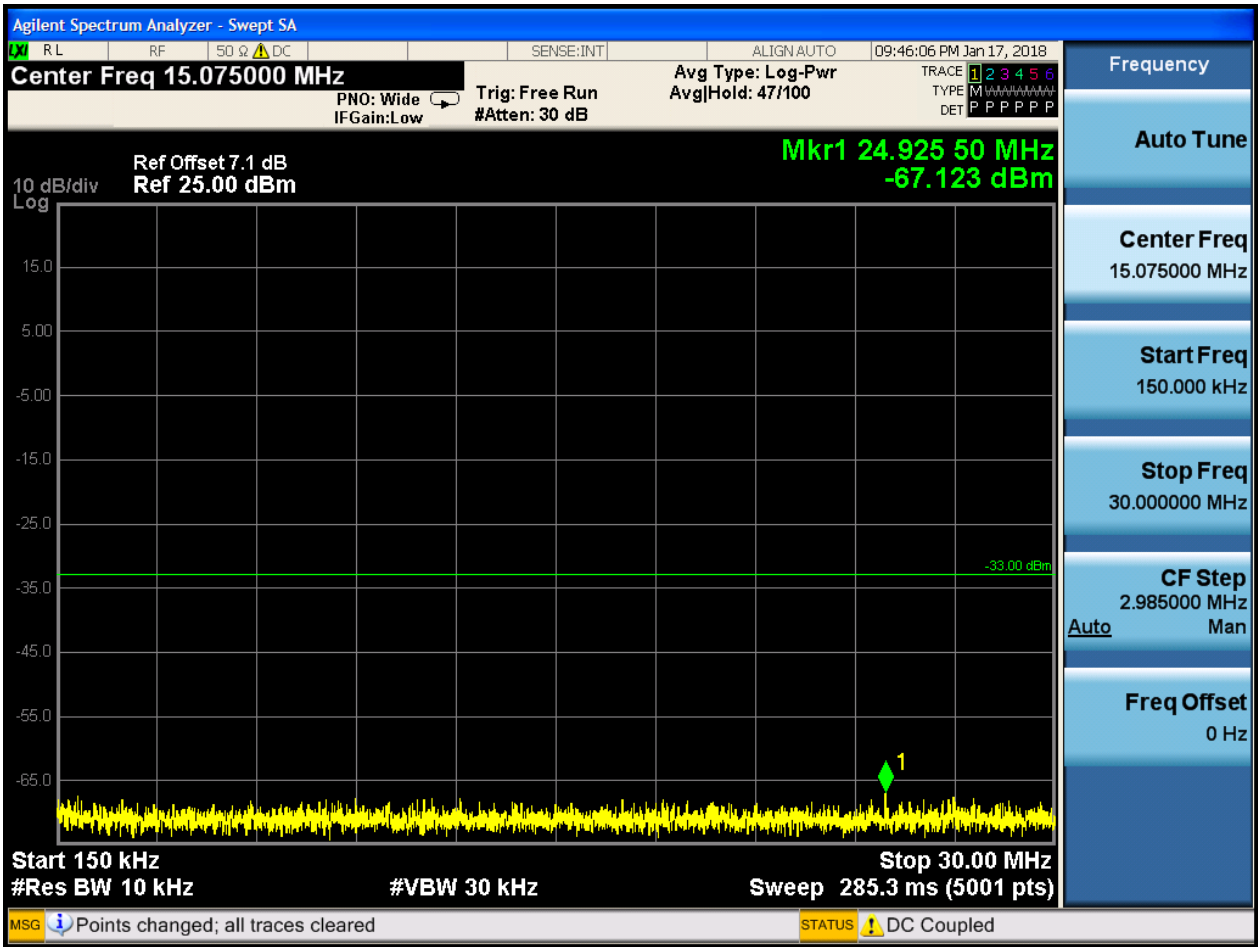


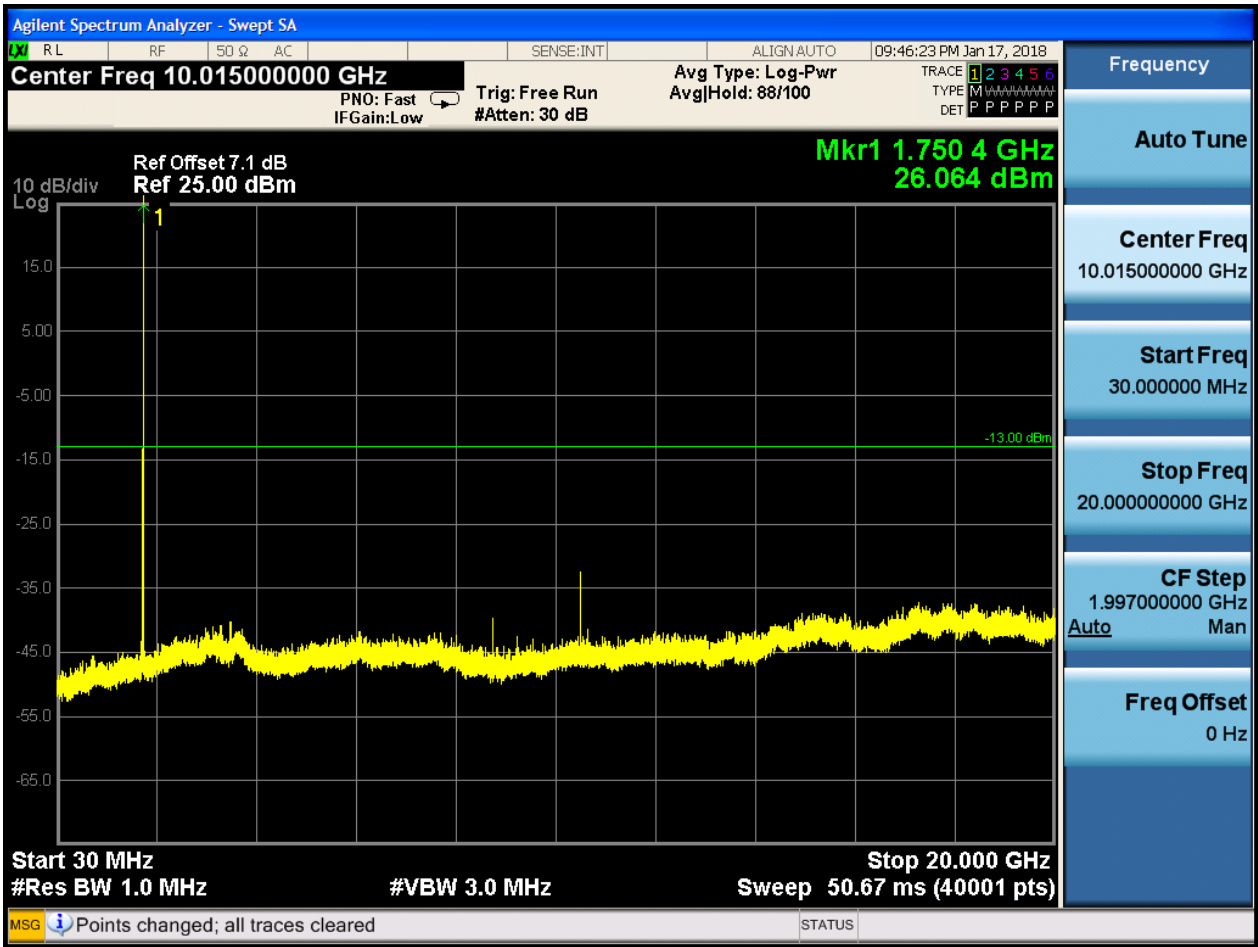


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





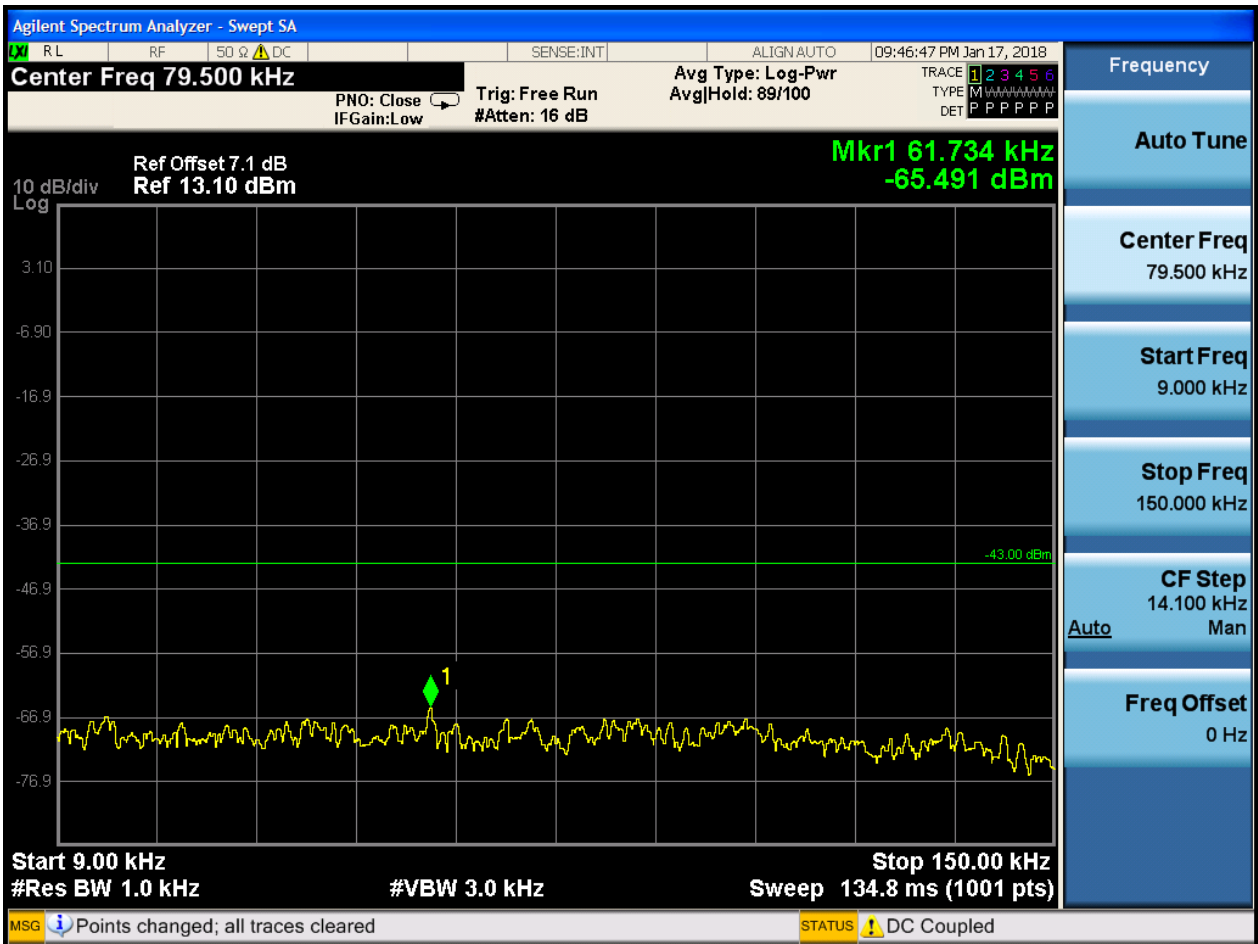


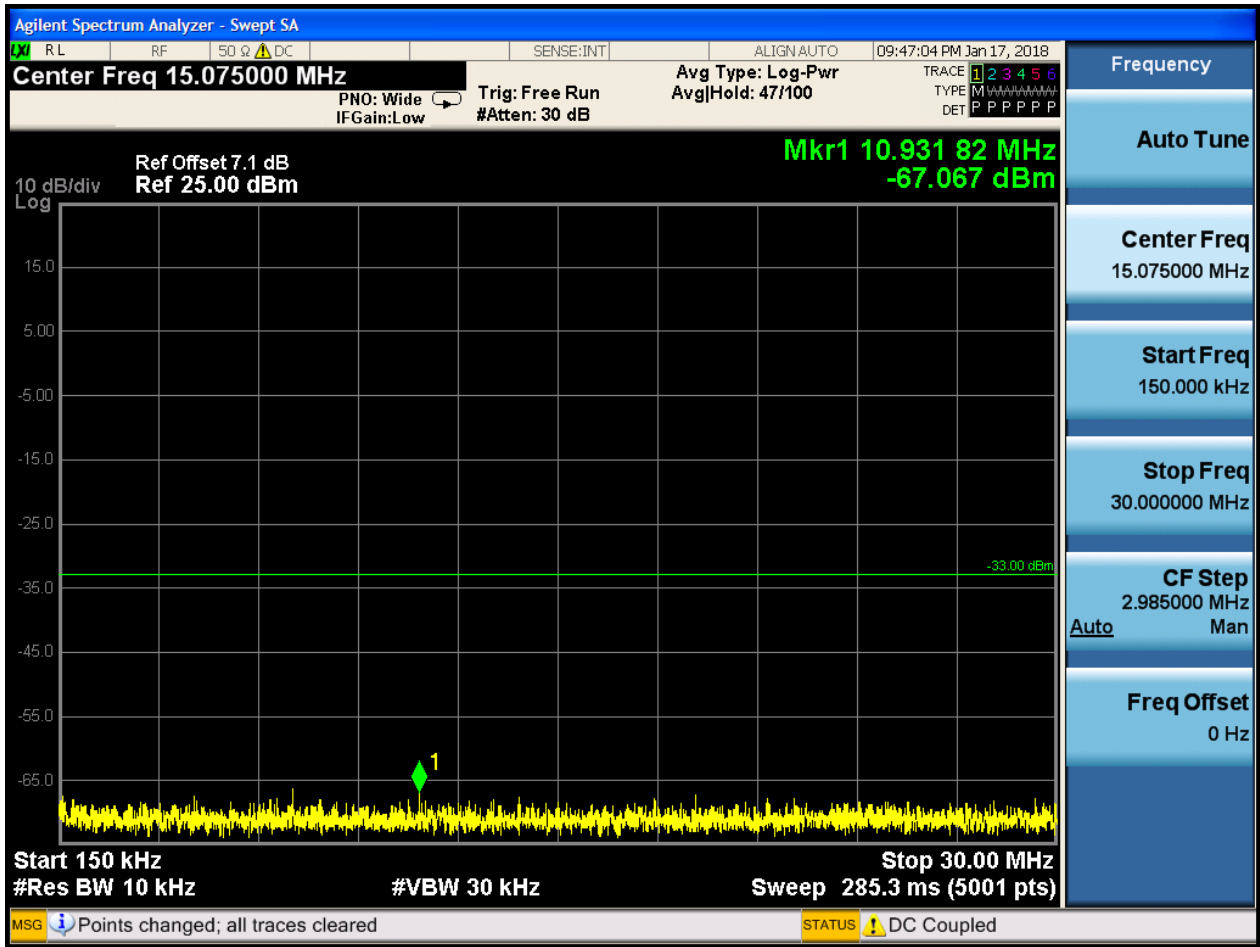


6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

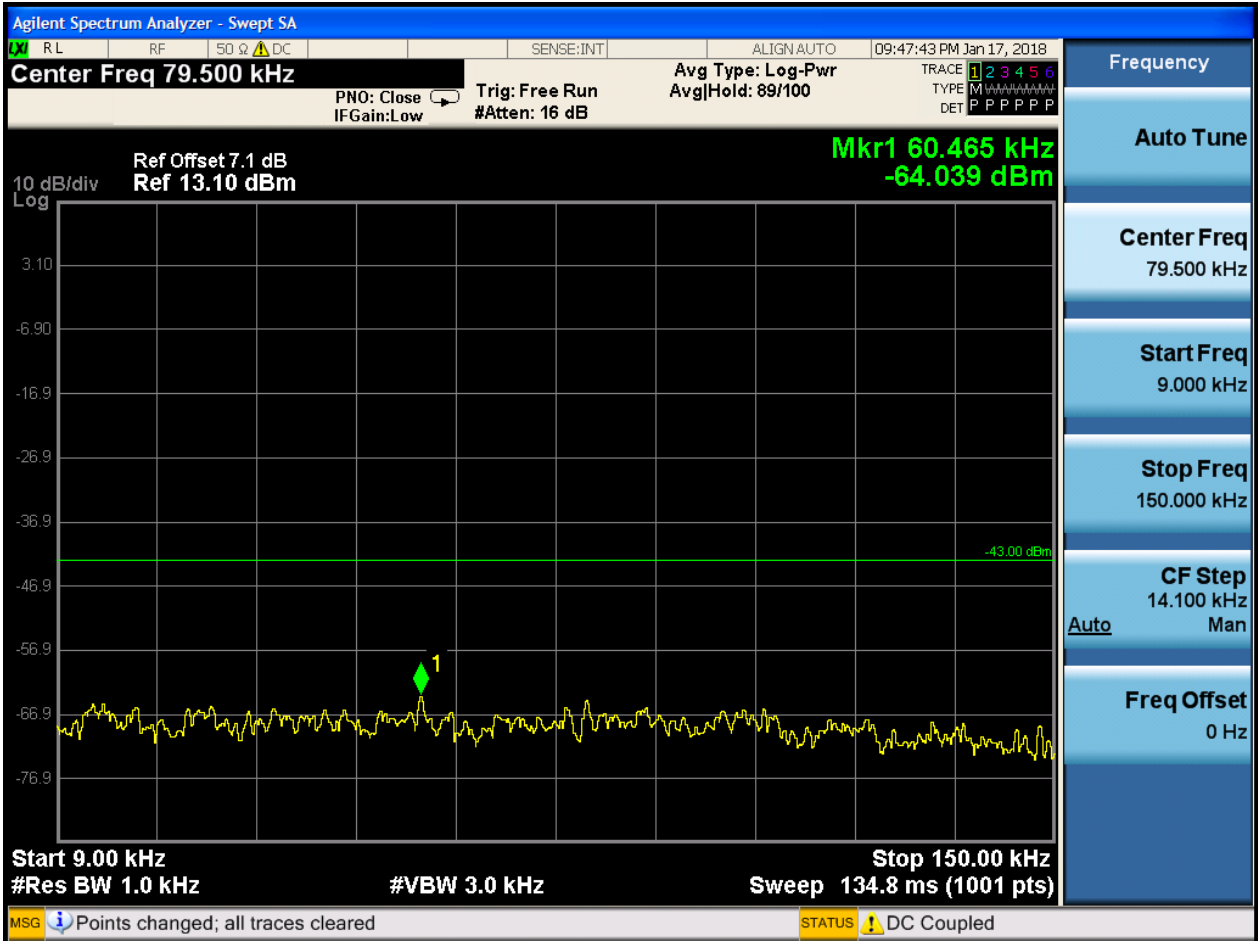
6.1.1.2.4.1.1 Test RB = RB1#0

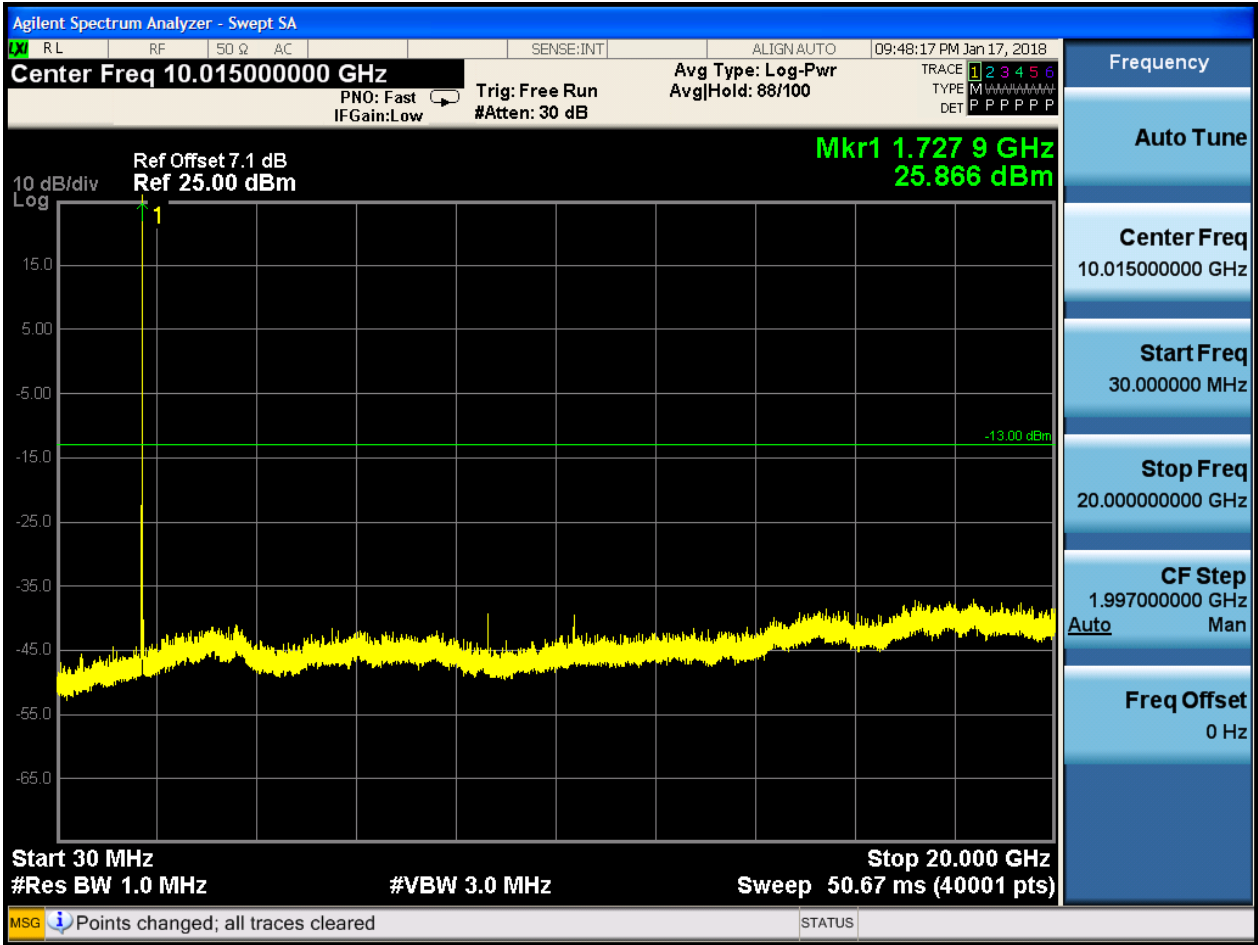




6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0

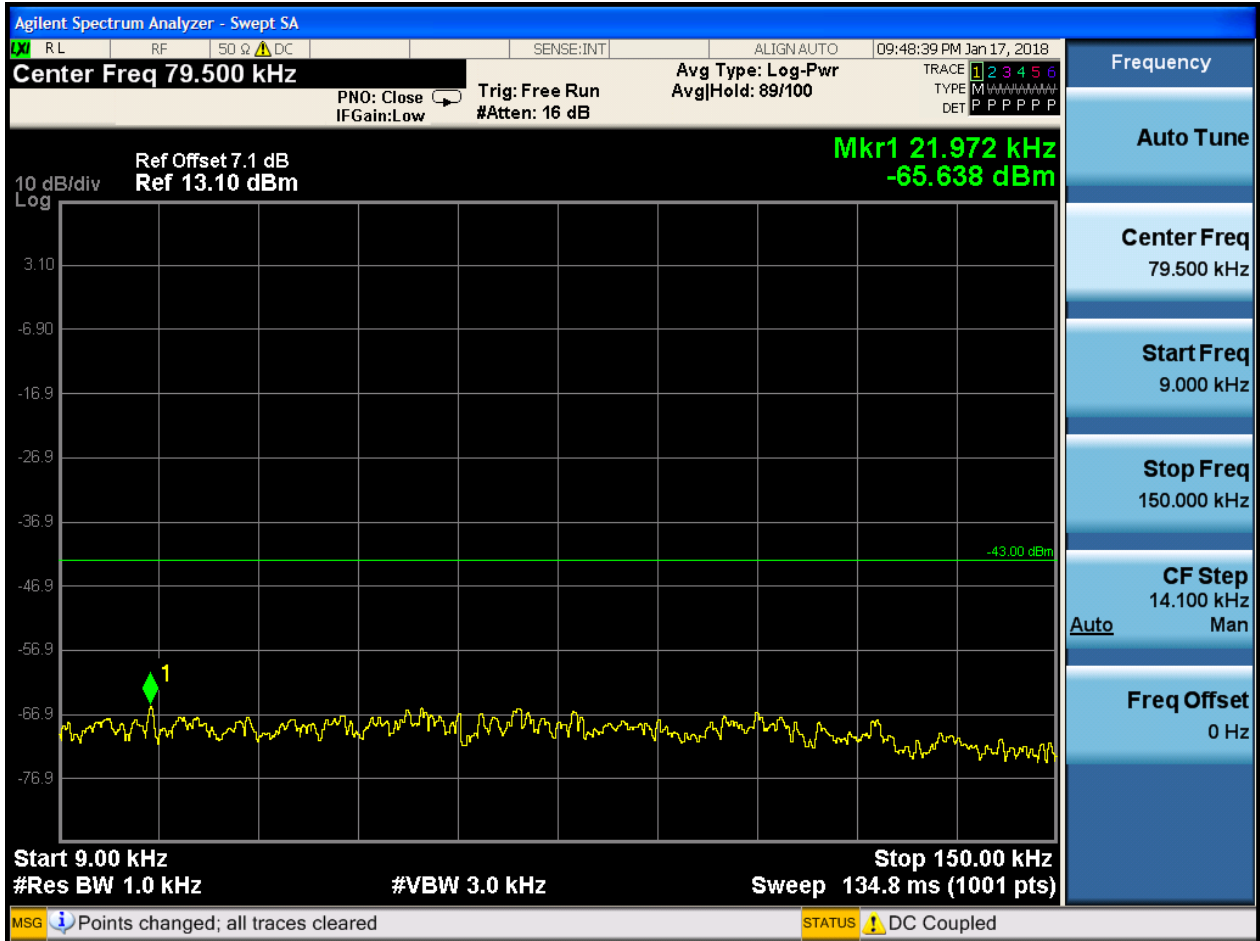


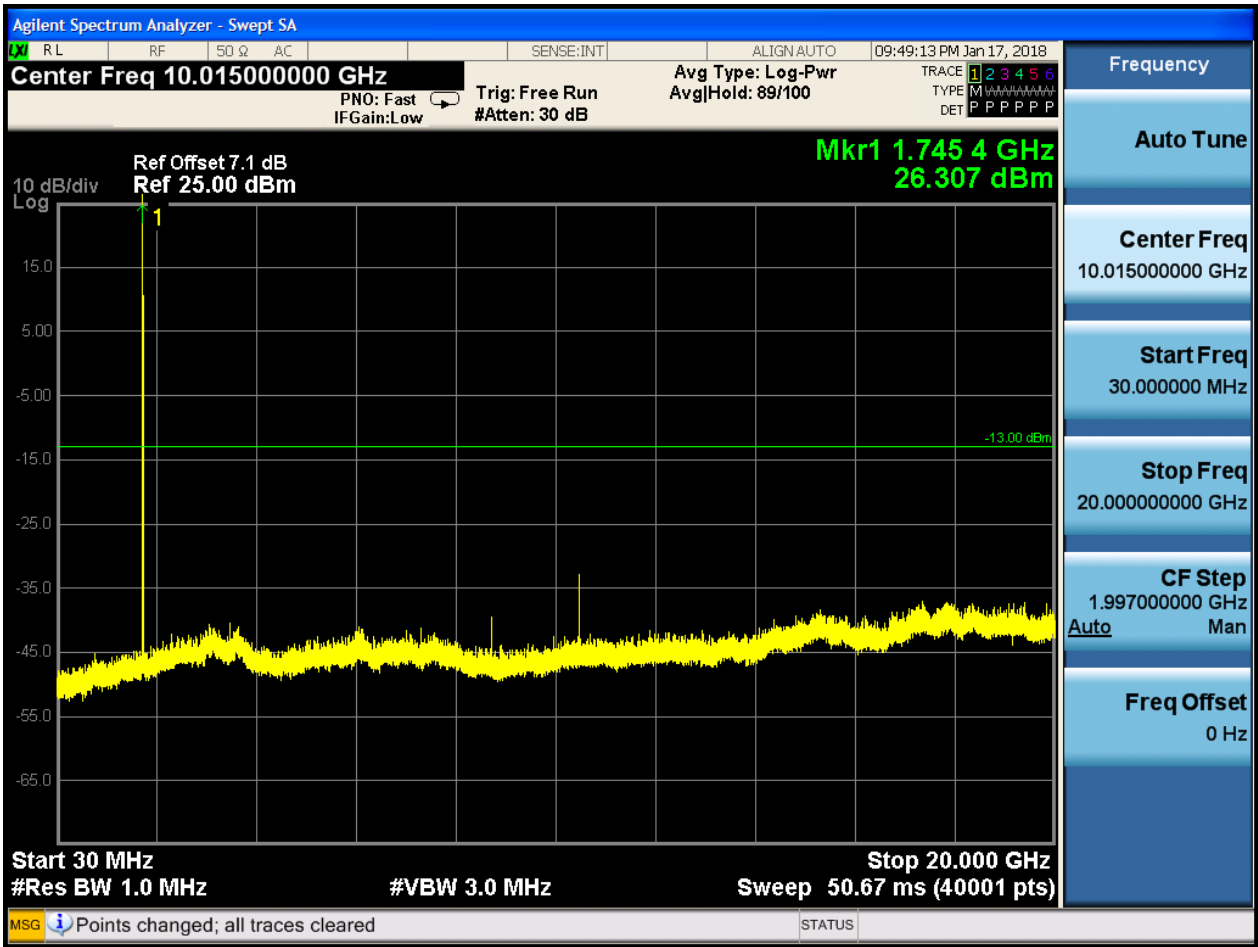




6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0



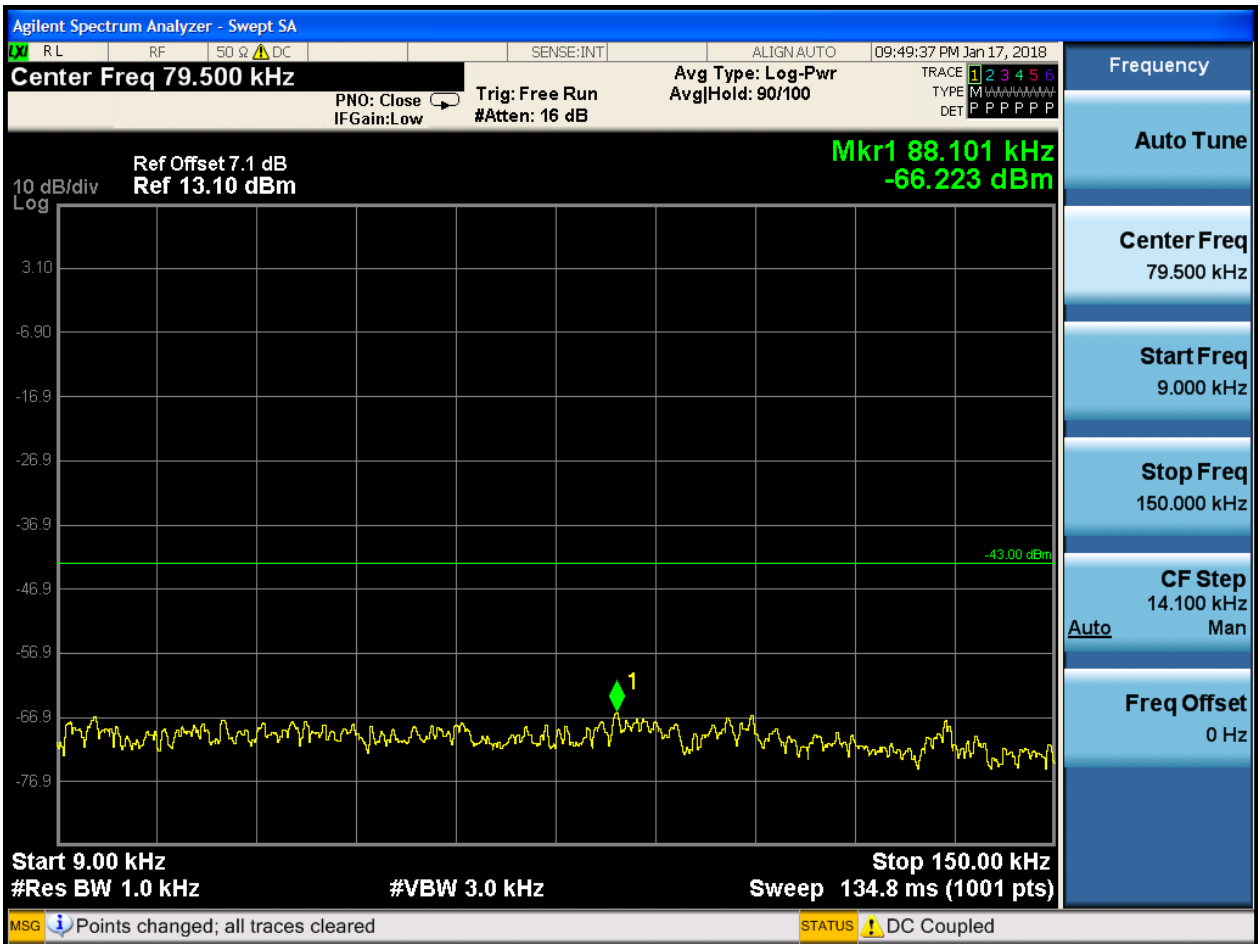




6.1.1.2.5 Test Bandwidth = 15

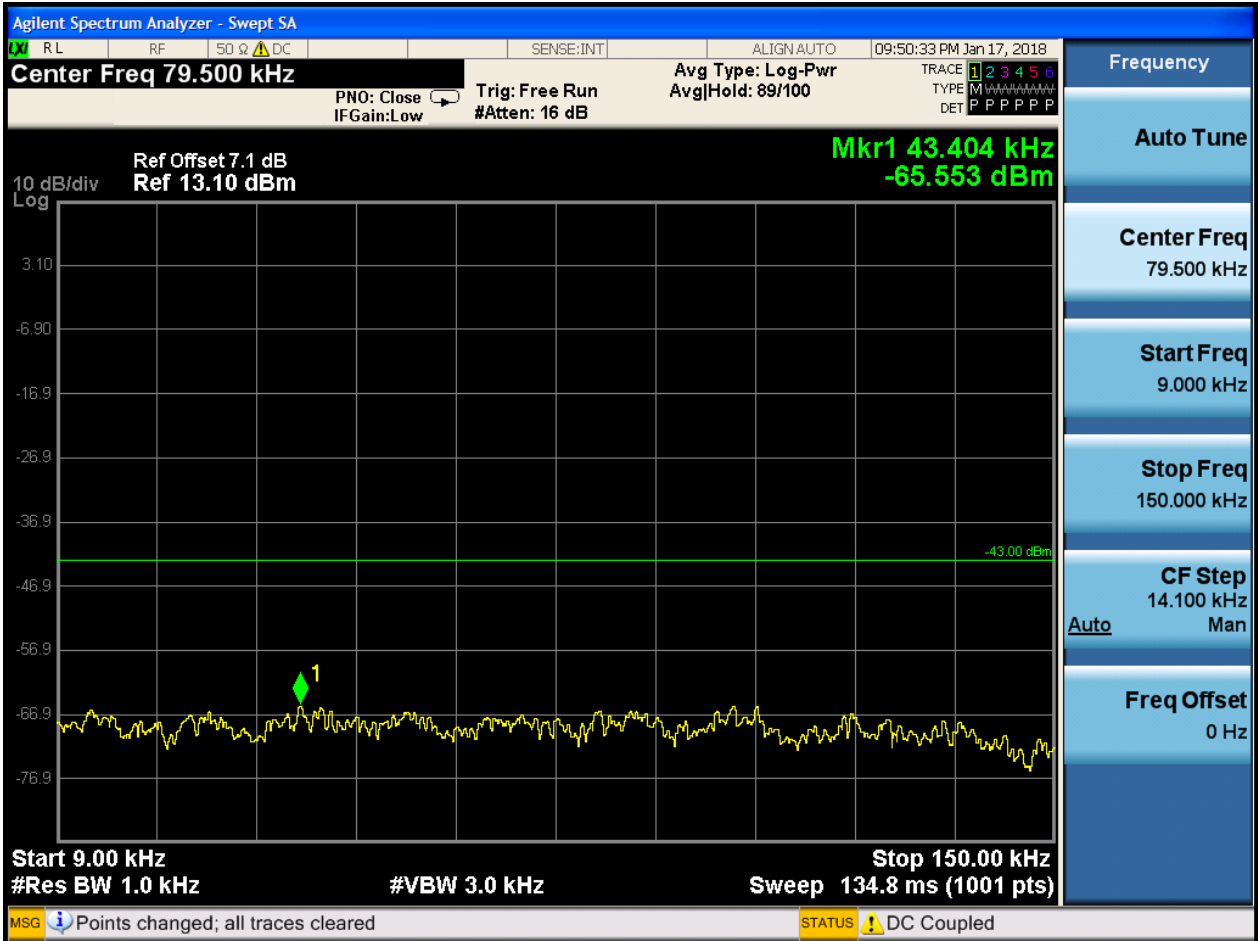
6.1.1.2.5.1 Test Channel = LCH

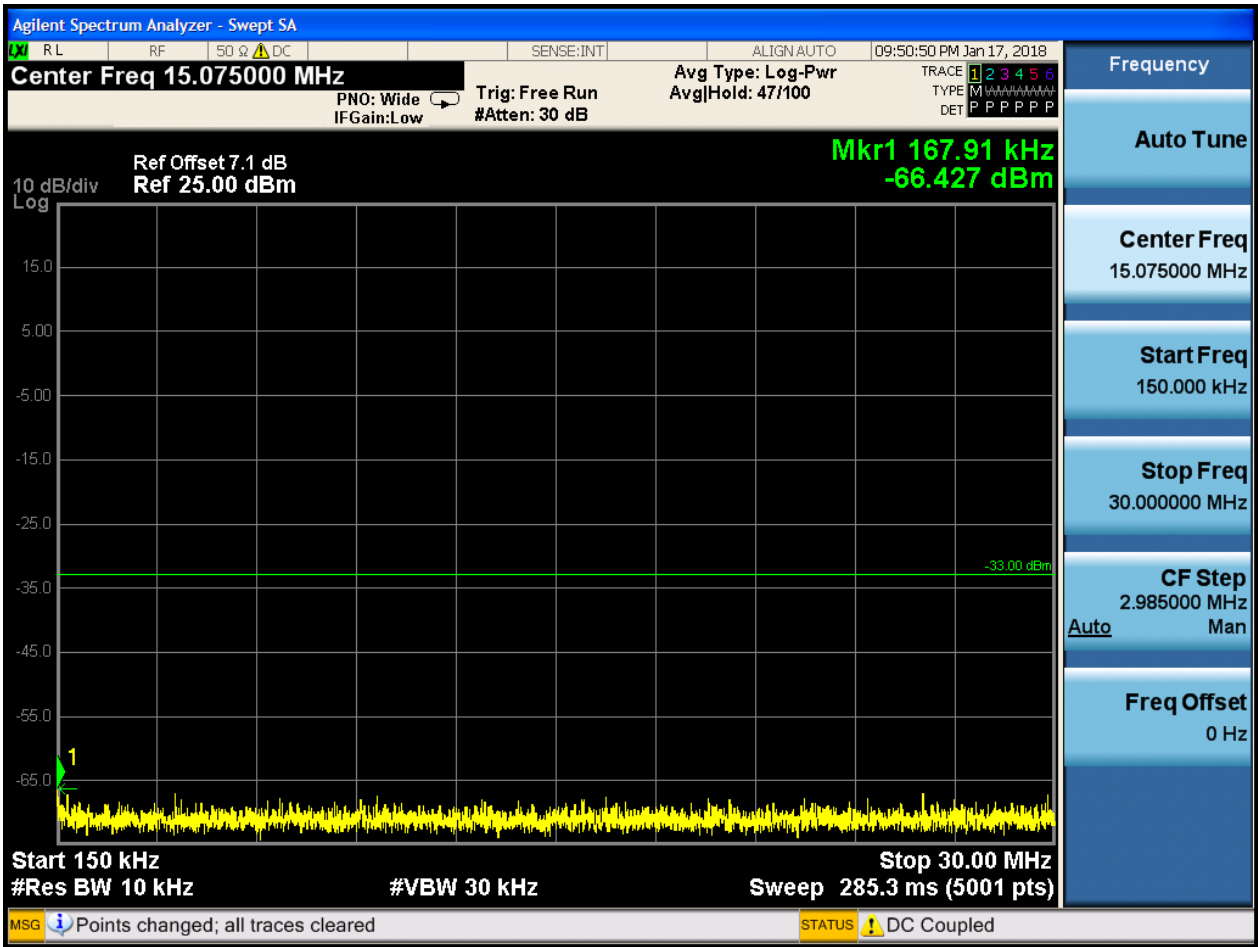
6.1.1.2.5.1.1 Test RB = RB1#0

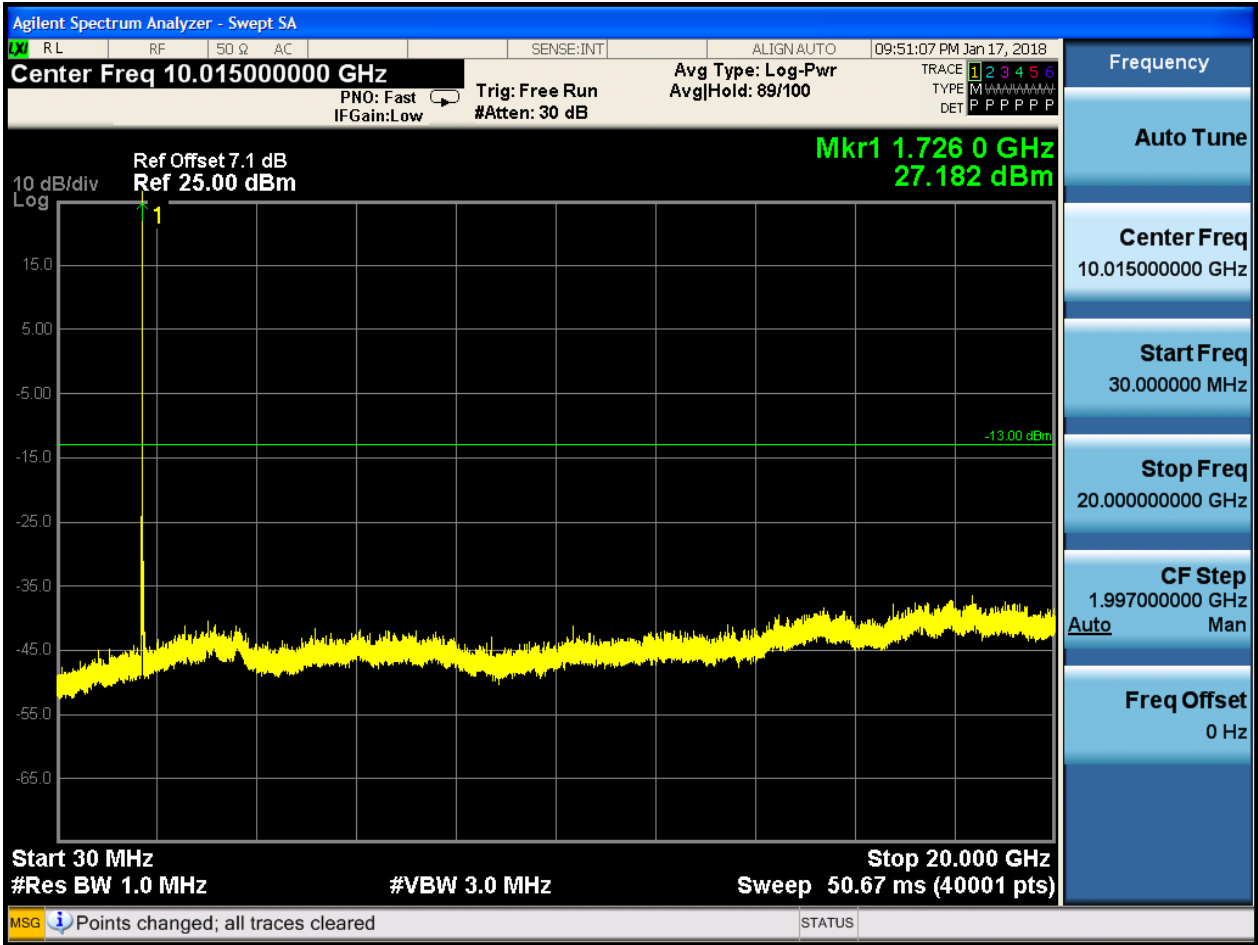


6.1.1.2.5.2 Test Channel = MCH

6.1.1.2.5.2.1 Test RB = RB1#0



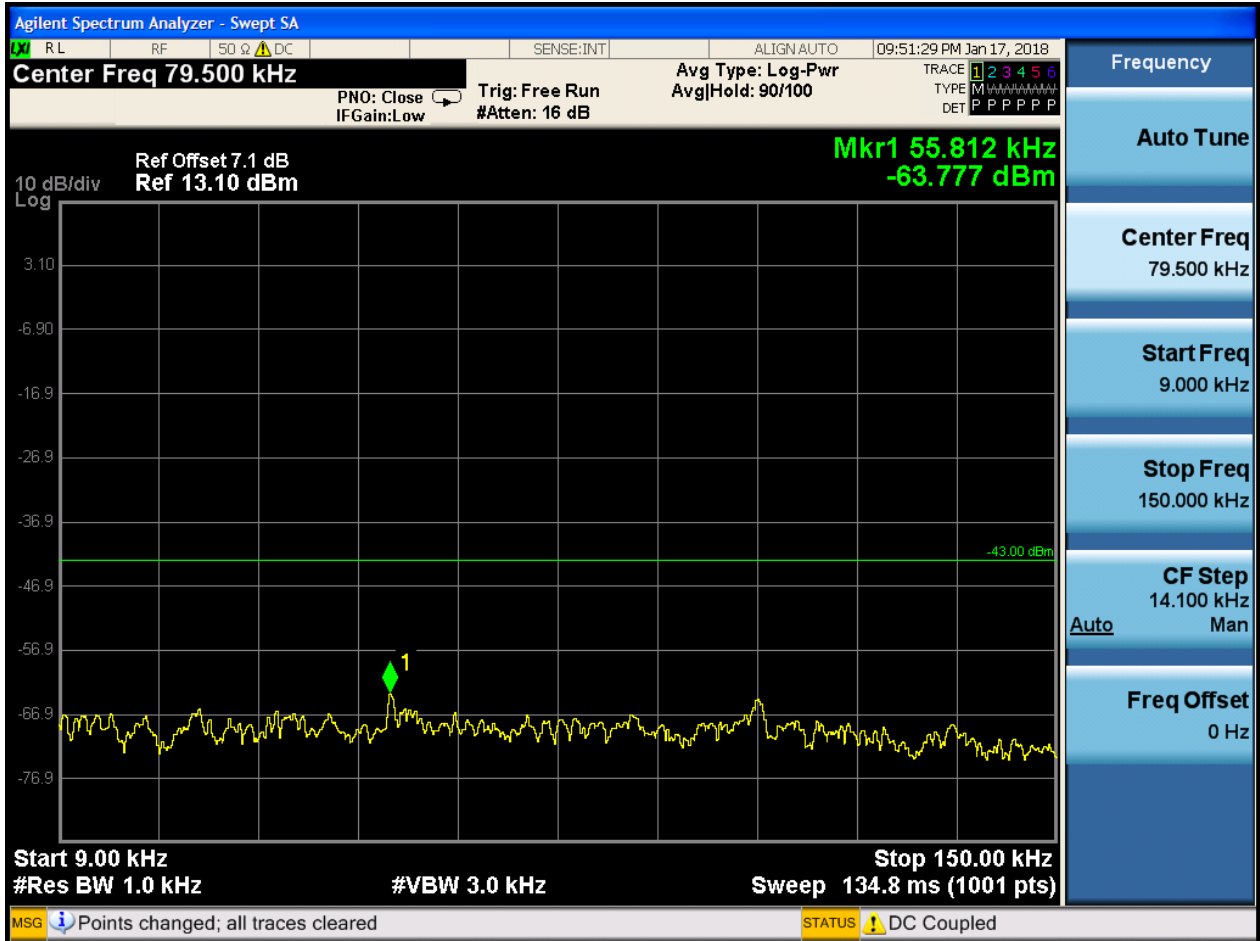


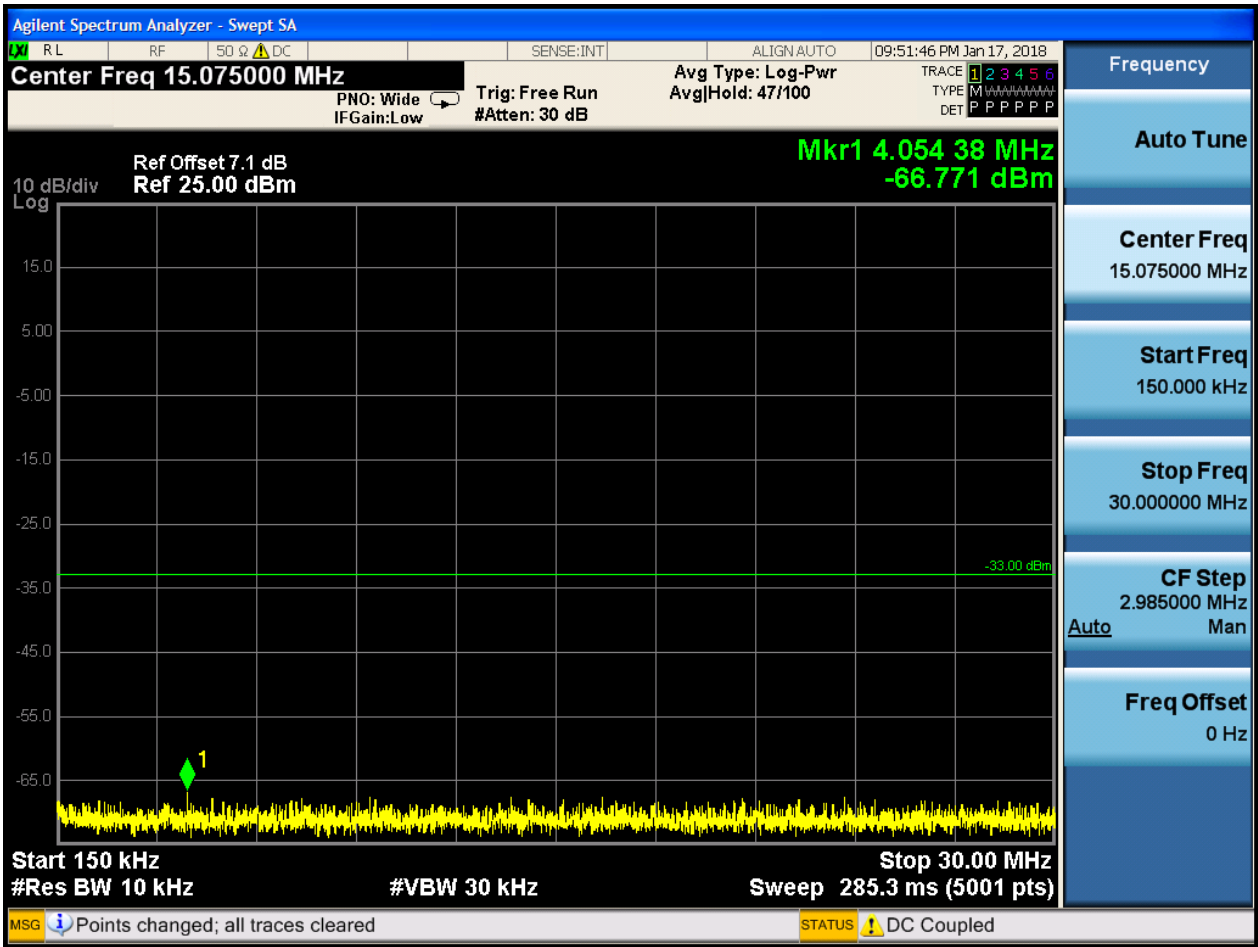


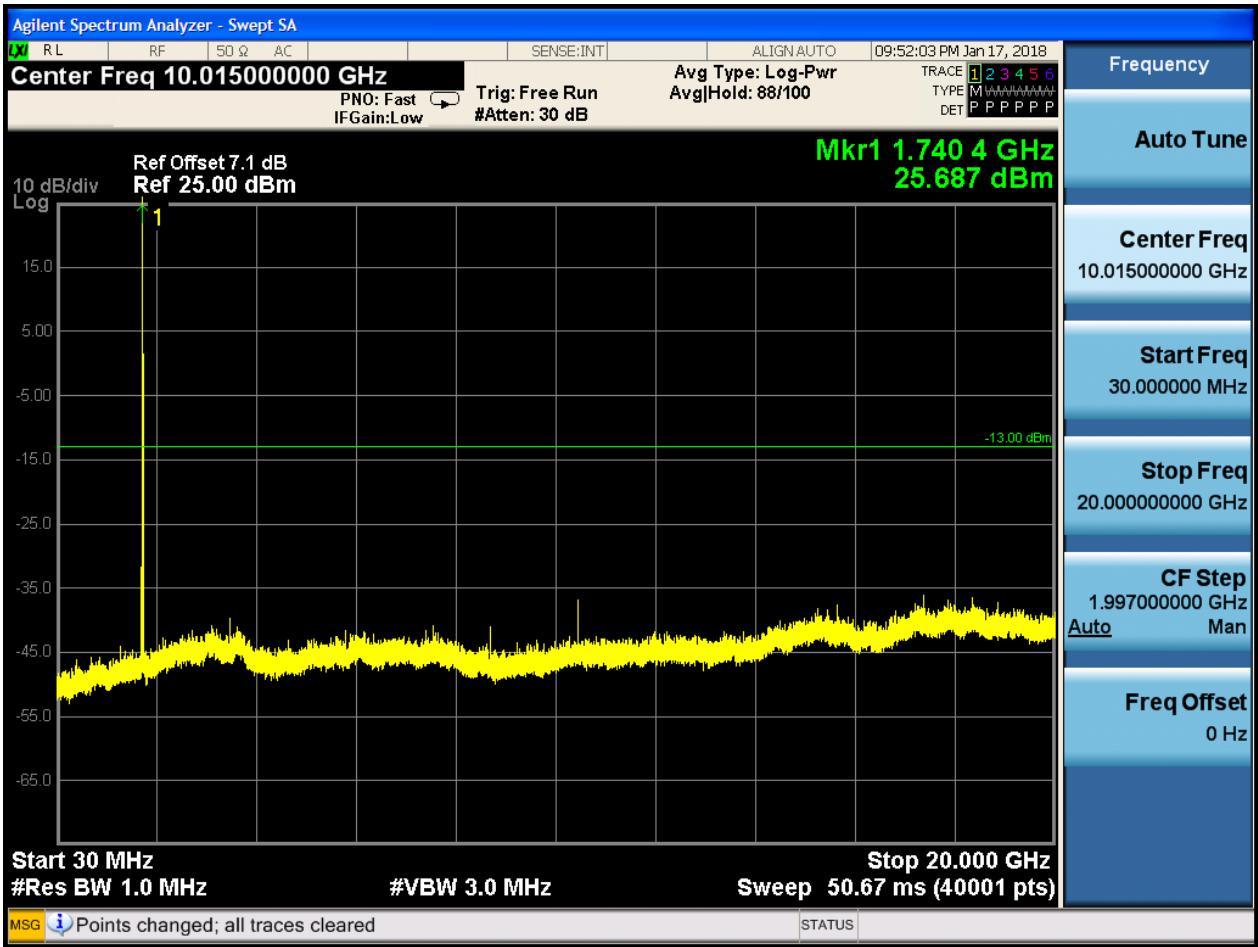


6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0





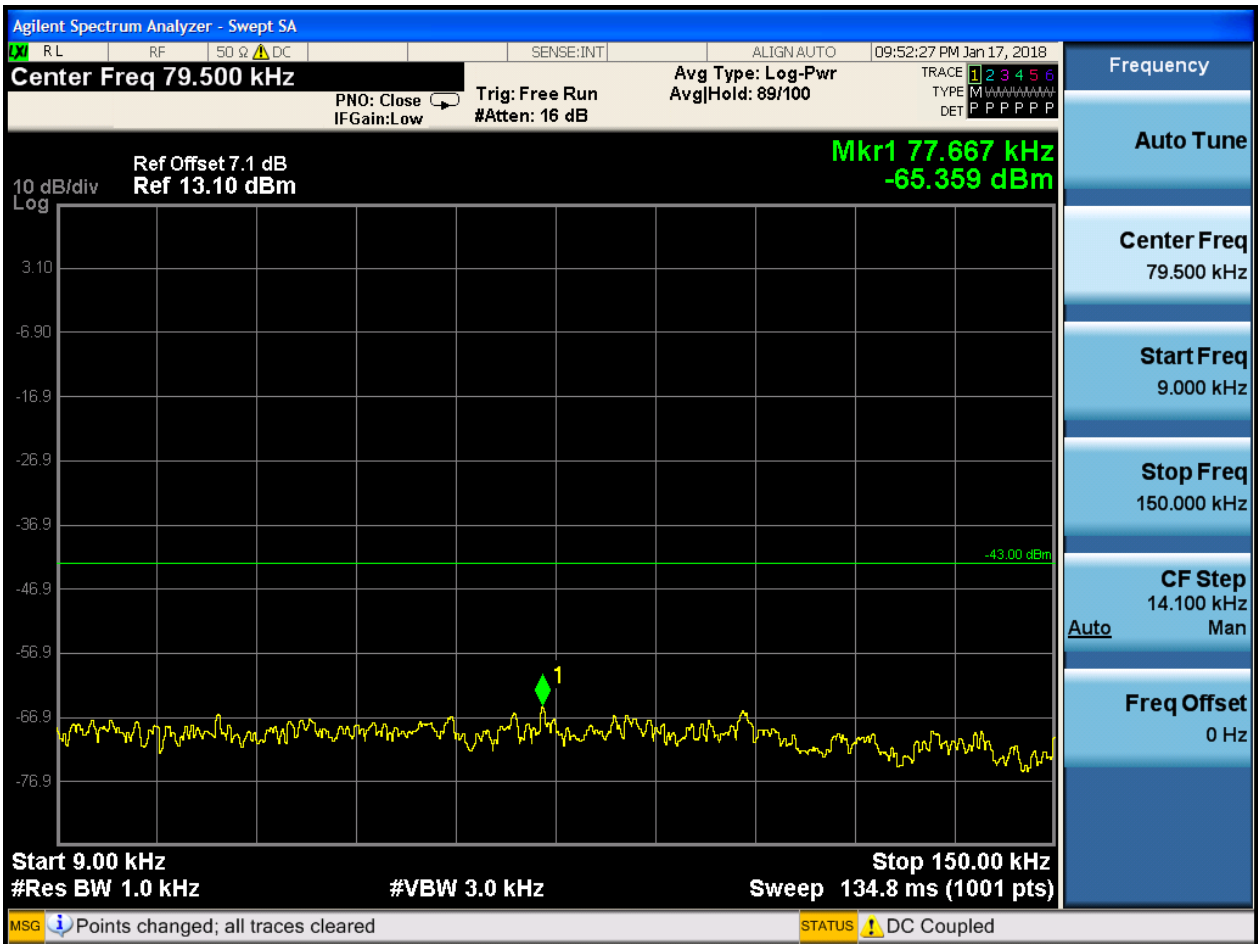




6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

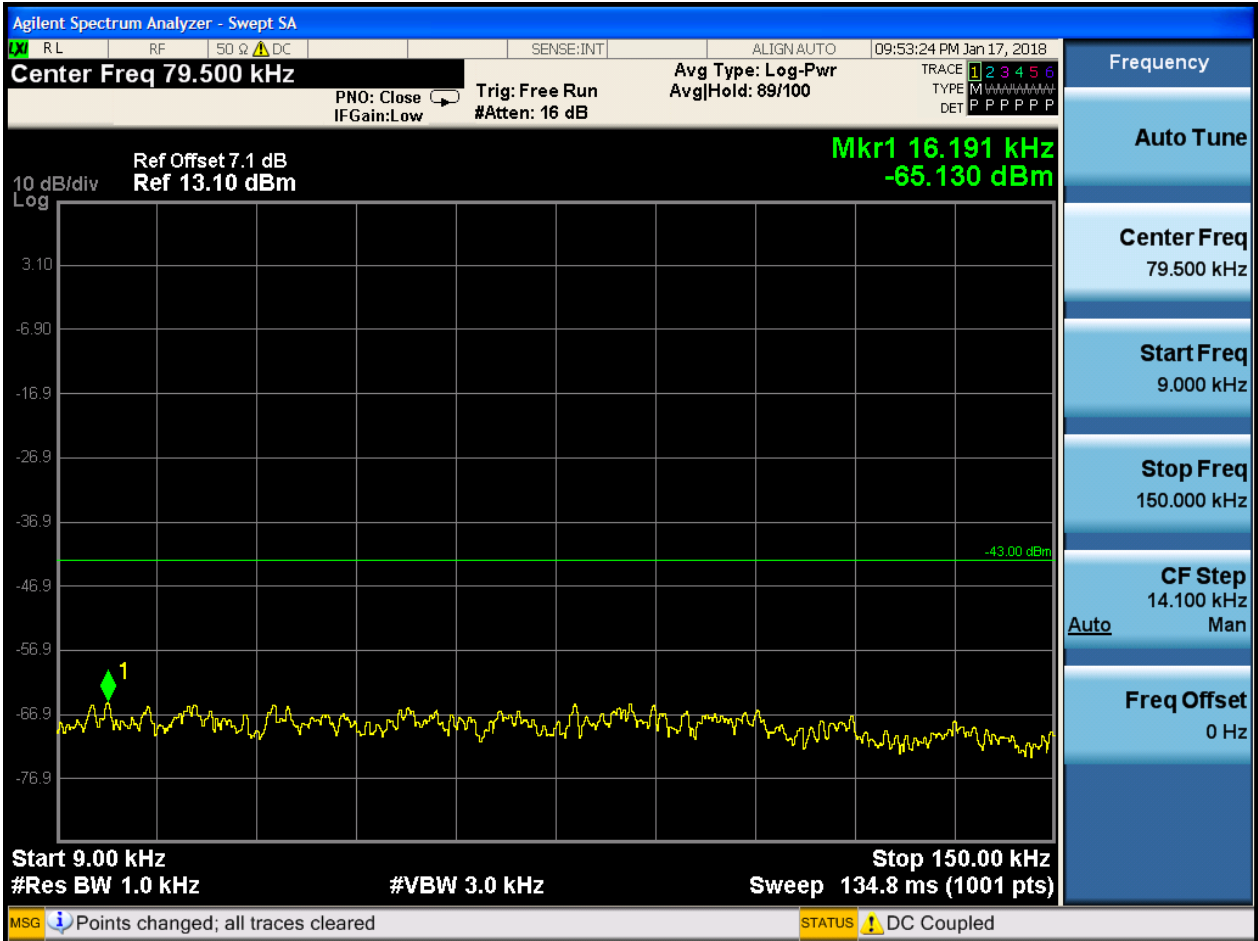
6.1.1.2.6.1.1 Test RB = RB1#0

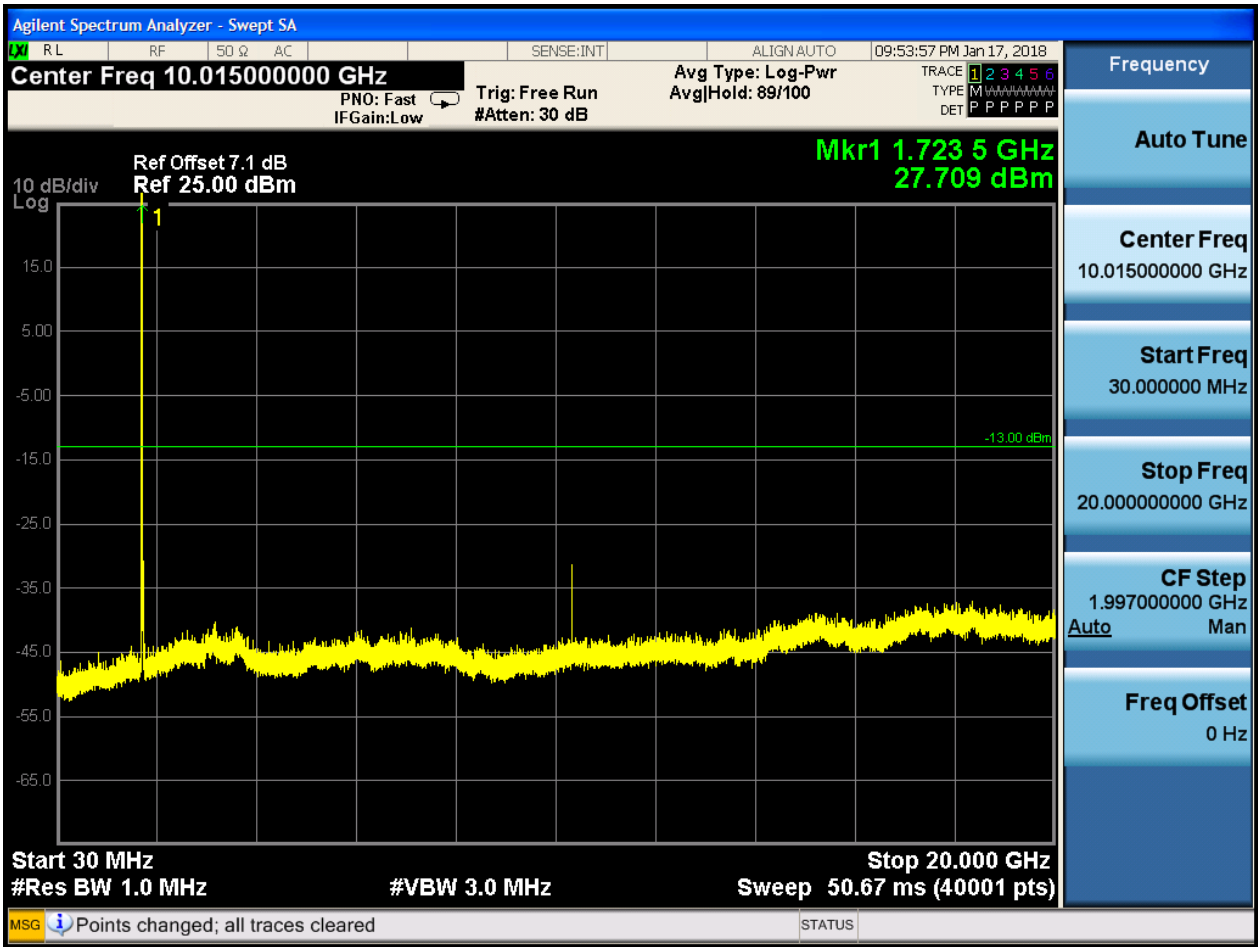


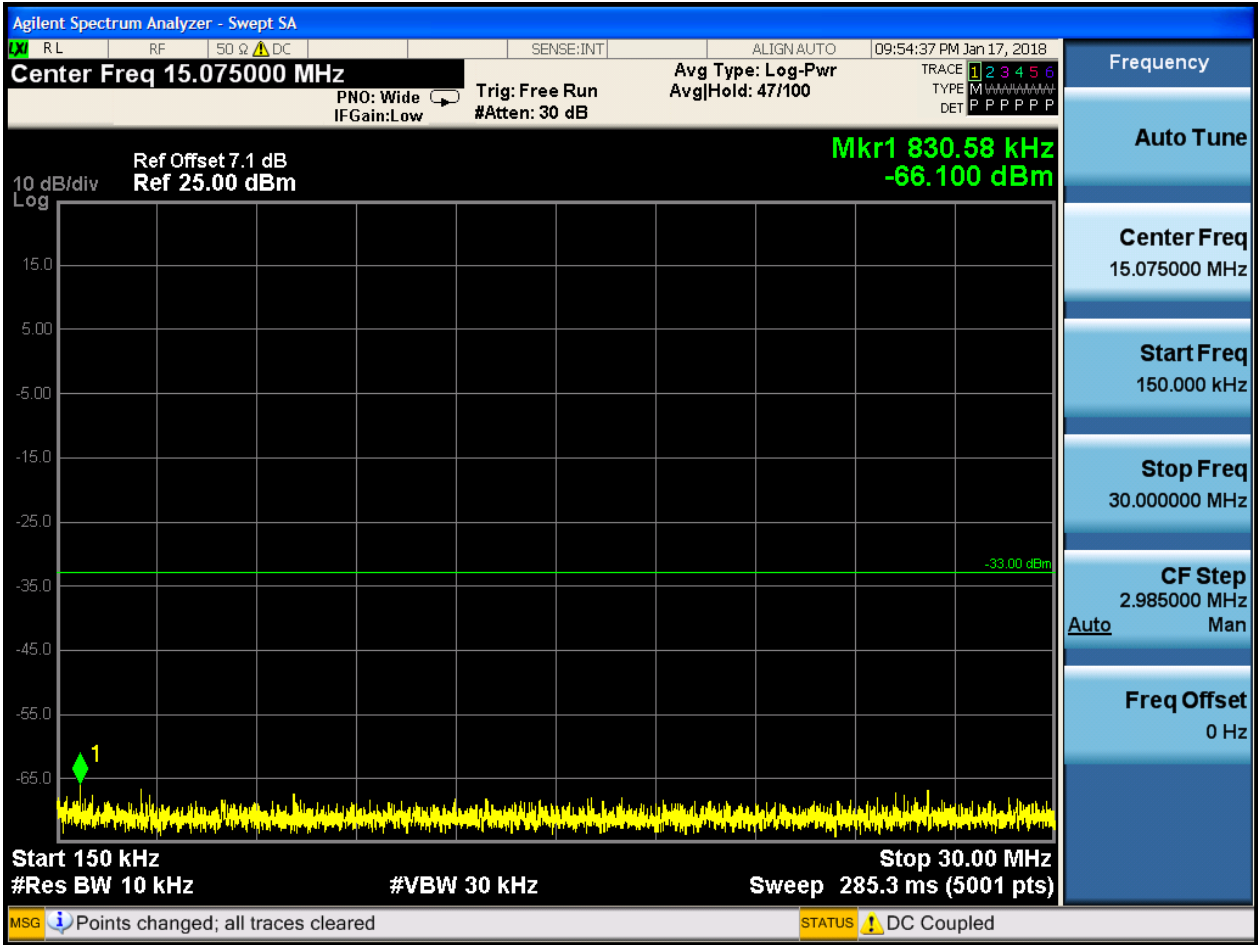


6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 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

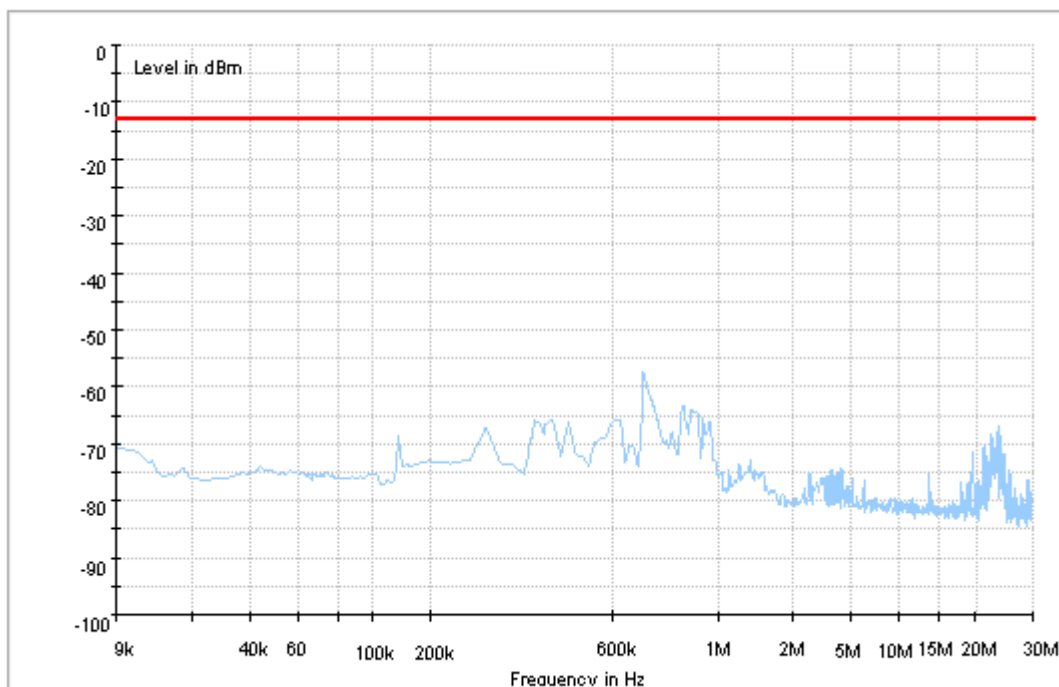
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

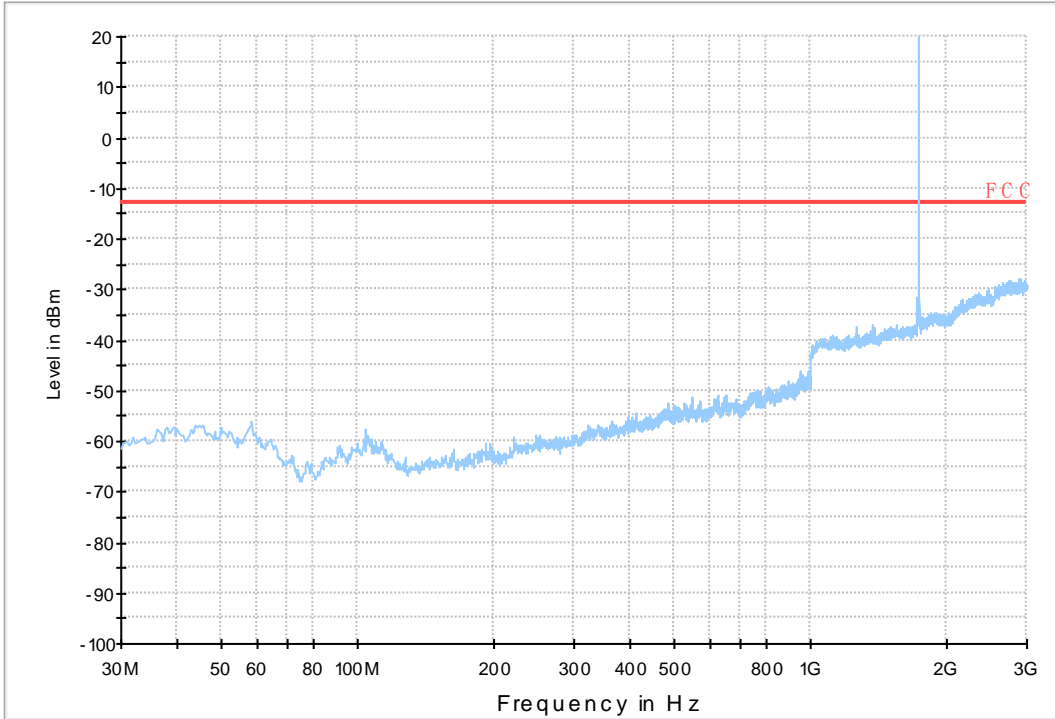
7.1 For LTE

7.1.1 Test Band = BAND2_ANT1

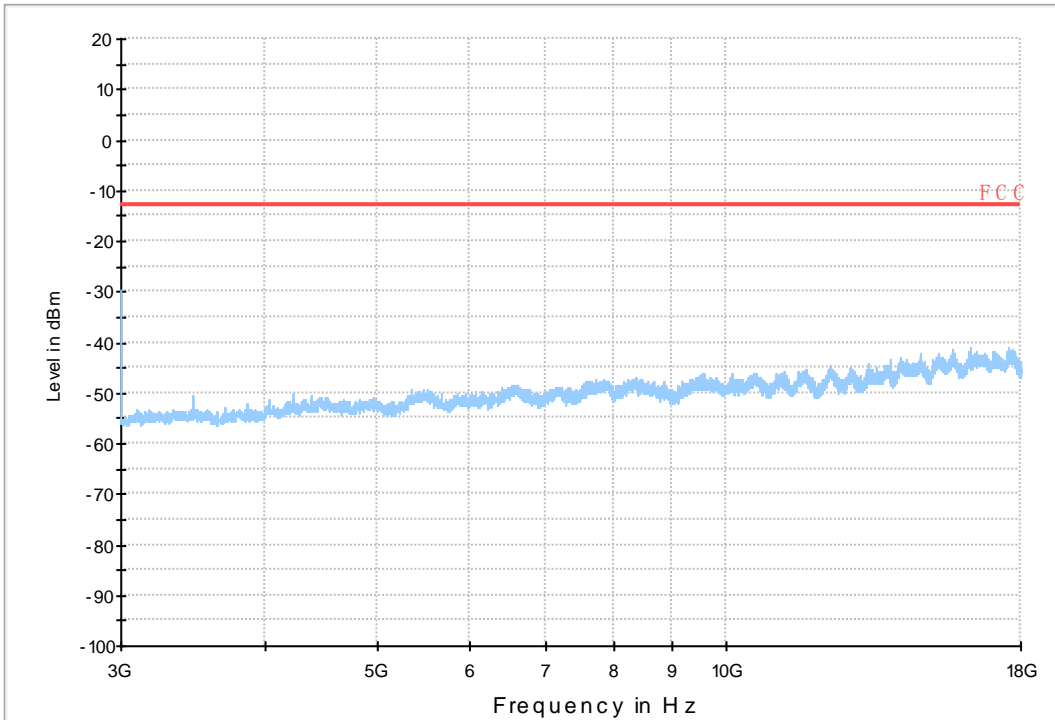
7.1.1.1 Test Bandwidth = 1.4



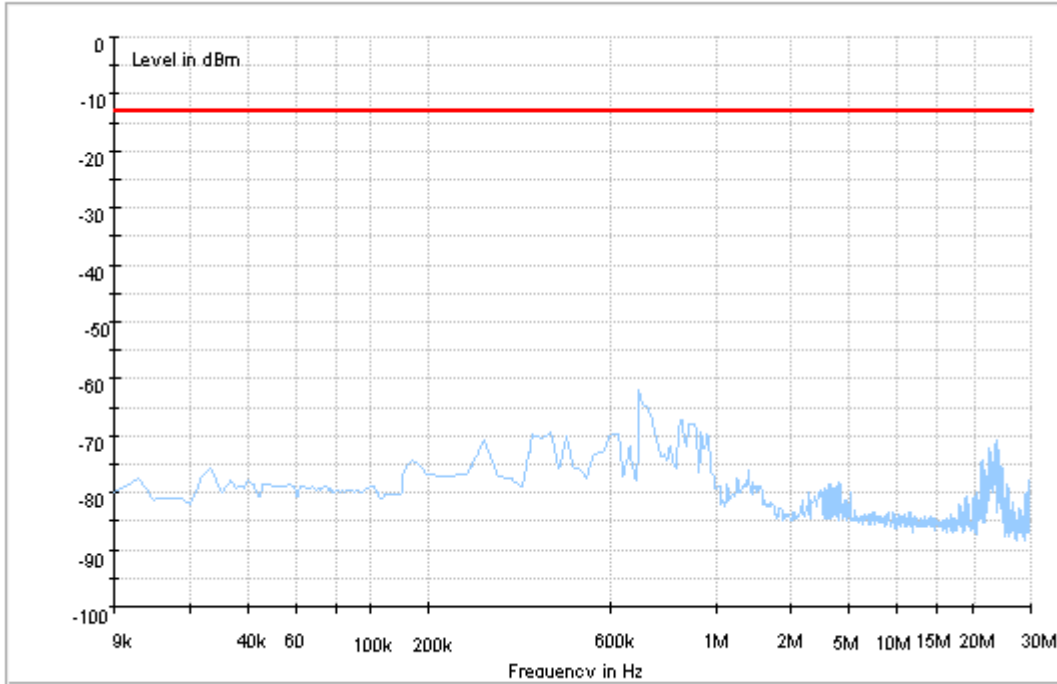
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



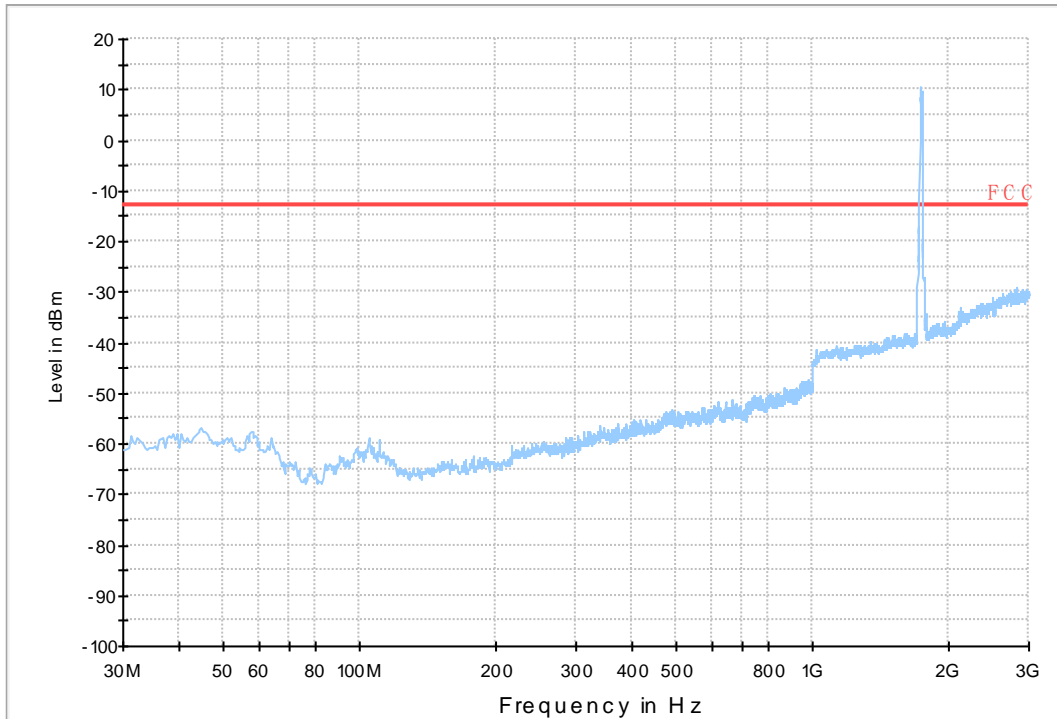
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



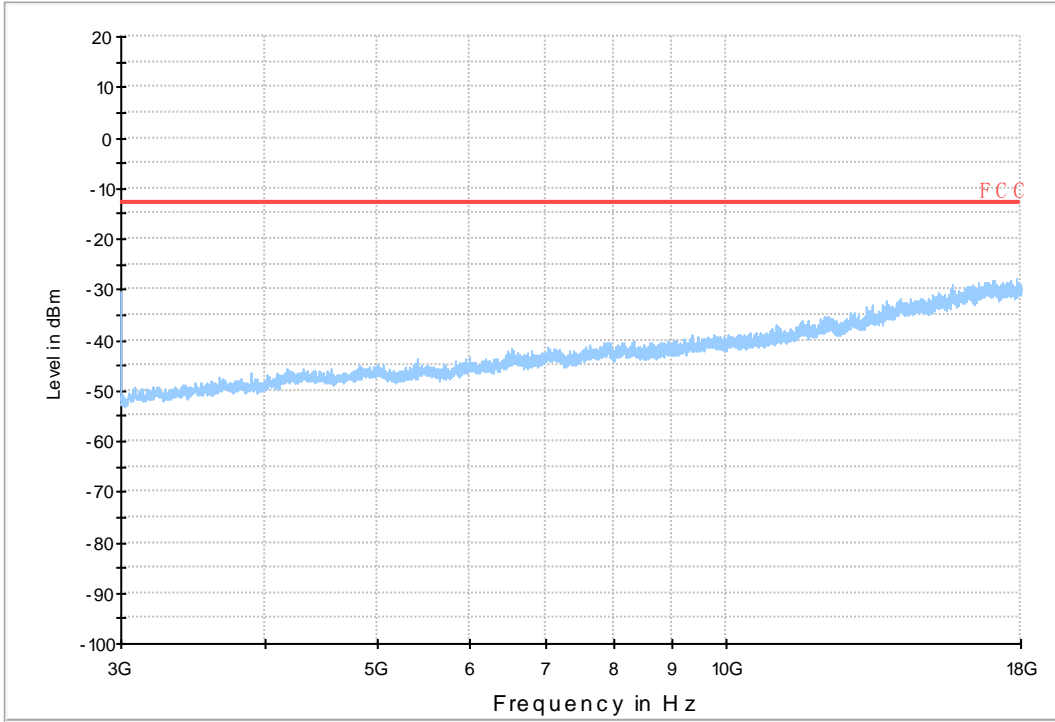
7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

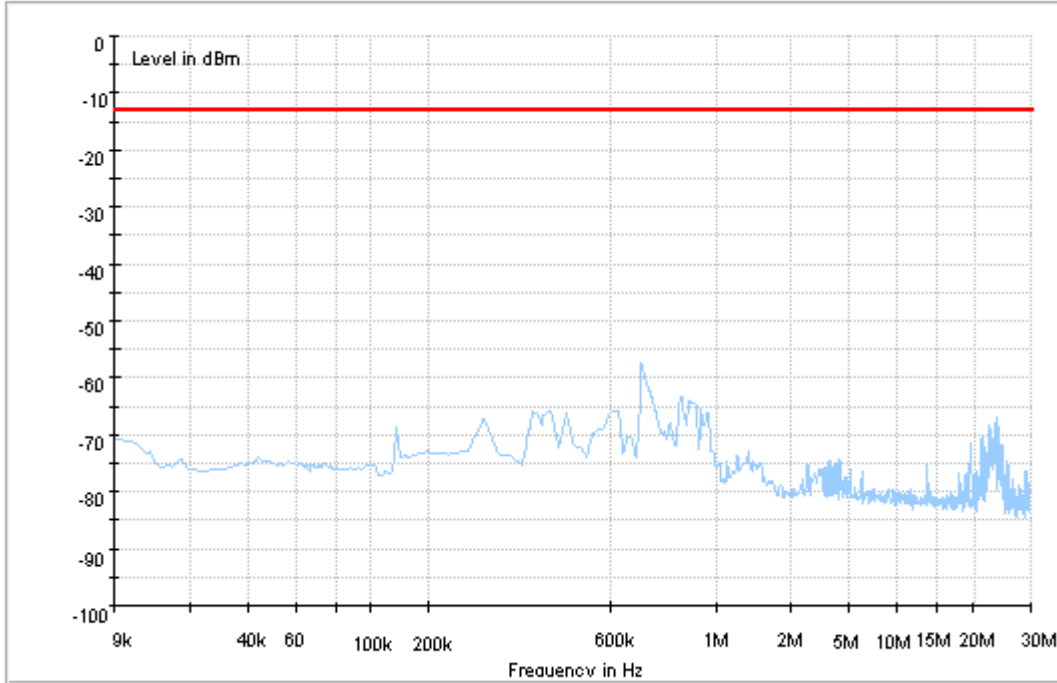


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

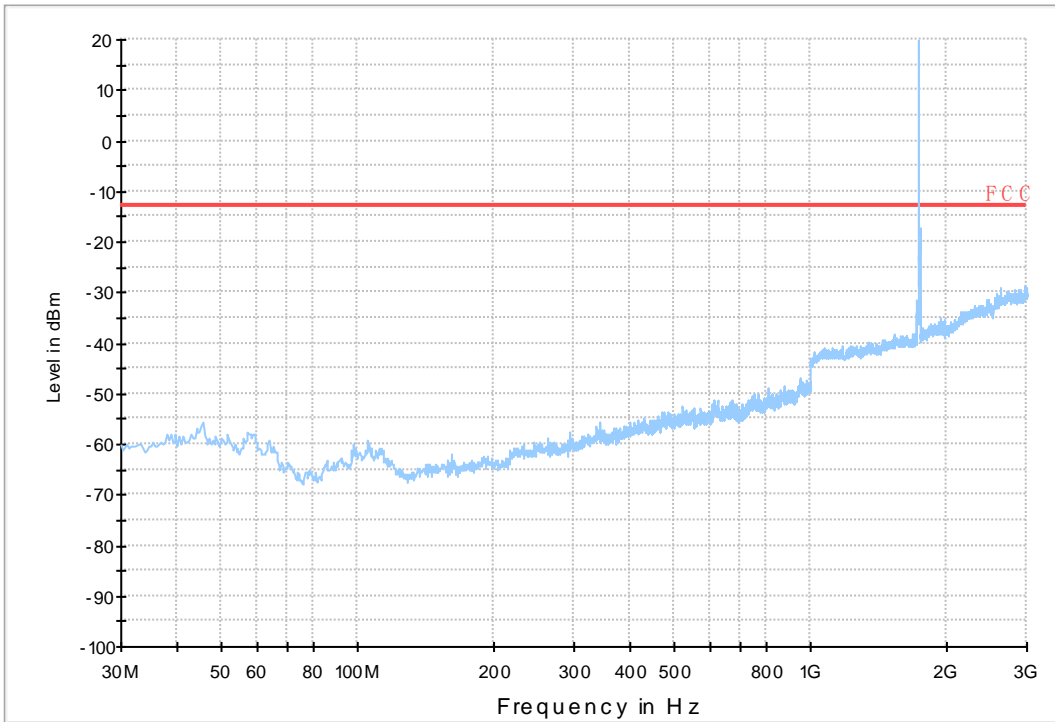


7.1.2 Test Band = BAND2_ANT2

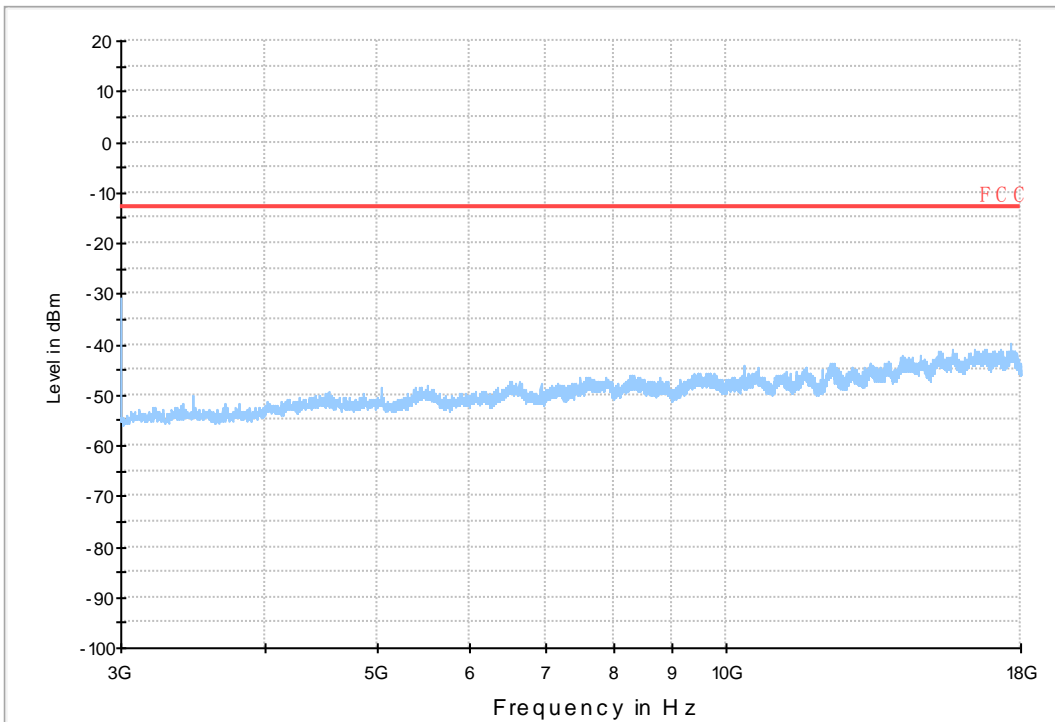
7.1.2.1 Test Bandwidth = 1.4



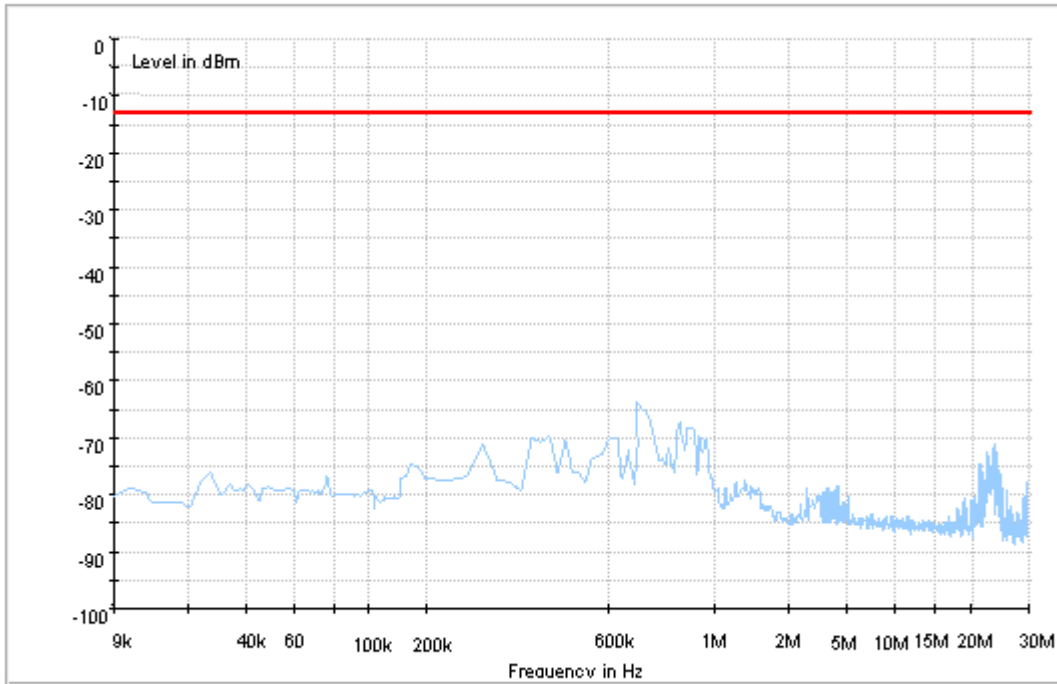
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



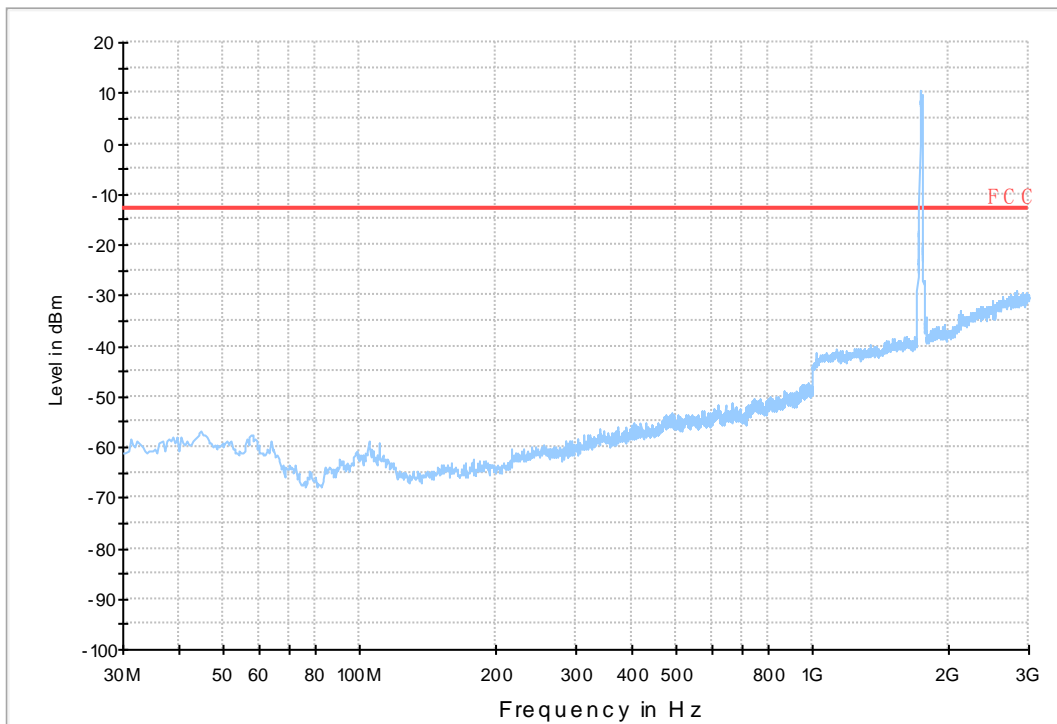
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



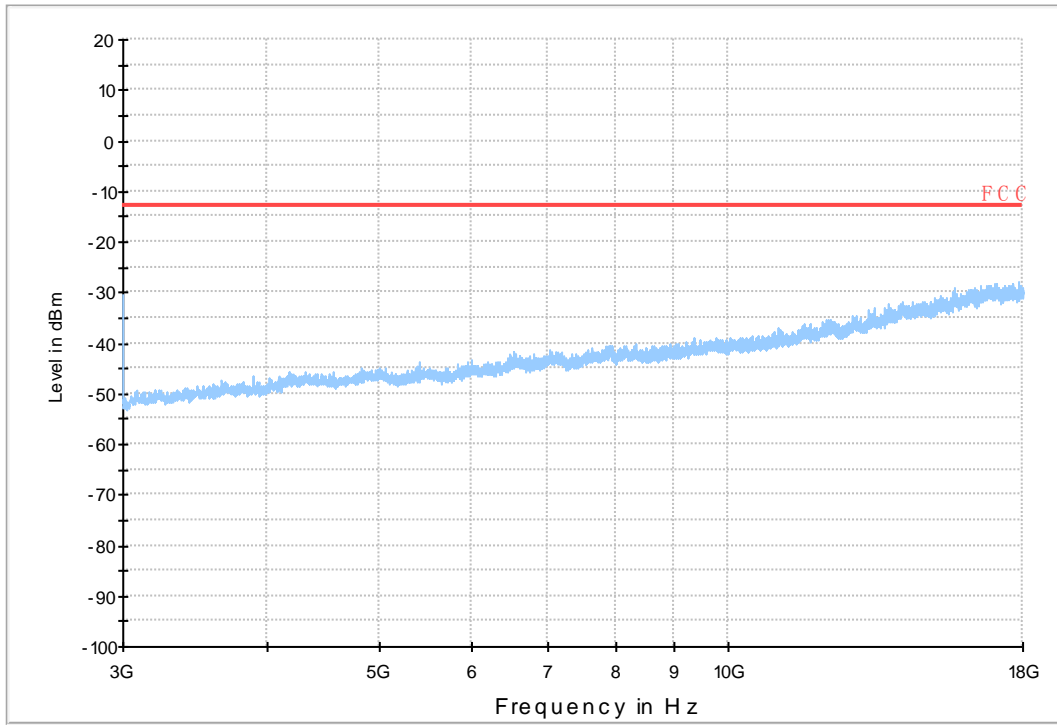
7.1.2.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_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
BAND4	LTE/TM1	1.4	LCH	TN	VL	8.03	0.00469	PASS
					VN	15.78	0.00922	PASS
					VH	-0.13	-0.00008	PASS
			MCH	TN	VL	8.15	0.0047	PASS
					VN	11.26	0.0065	PASS
					VH	6.27	0.00362	PASS
			HCH	TN	VL	4.69	0.00267	PASS
					VN	-0.56	-0.00032	PASS
					VH	0.23	0.00013	PASS
		3	LCH	TN	VL	2.79	0.00163	PASS
					VN	4.23	0.00247	PASS
					VH	5.22	0.00305	PASS
			MCH	TN	VL	1.06	0.00061	PASS
					VN	-3.42	-0.00197	PASS
					VH	2.12	0.00122	PASS
			HCH	TN	VL	4.29	0.00245	PASS
					VN	-2.26	-0.00129	PASS
					VH	-1.10	-0.00063	PASS
		5	LCH	TN	VL	1.03	0.0006	PASS
					VN	1.93	0.00113	PASS
					VH	-0.26	-0.00015	PASS
			MCH	TN	VL	-5.41	-0.00312	PASS
					VN	-2.13	-0.00123	PASS
					VH	-15.01	-0.00866	PASS
			HCH	TN	VL	1.59	0.00091	PASS
					VN	0.09	0.00005	PASS
					VH	-0.86	-0.00049	PASS
10	LCH	TN	VL	-1.04	-0.00061	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					VN	-1.46	-0.00085	PASS		
					VH	-0.29	-0.00017	PASS		
					MCH	TN	VL	-0.37	-0.00021	PASS
							VN	-4.29	-0.00248	PASS
					VH		VH	-2.03	-0.00117	PASS
							VL	2.66	0.00152	PASS
			HCH	TN	VN	2.85	0.00163	PASS		
					VH	4.65	0.00266	PASS		
					VL	-0.14	-0.00008	PASS		
			15	LCH	TN	VN	-0.83	-0.00048	PASS	
						VH	-1.04	-0.00061	PASS	
						VL	-0.63	-0.00036	PASS	
		MCH		TN	VN	-6.29	-0.00363	PASS		
					VH	-4.51	-0.0026	PASS		
					VL	4.62	0.00264	PASS		
		HCH		TN	VN	10.17	0.00582	PASS		
					VH	12.22	0.00699	PASS		
					VL	-4.25	-0.00247	PASS		
		20		LCH	TN	VN	-2.63	-0.00153	PASS	
						VH	-2.98	-0.00173	PASS	
						VL	2.03	0.00117	PASS	
			MCH	TN	VN	-0.09	-0.00005	PASS		
					VH	-4.39	-0.00253	PASS		
					VL	18.17	0.01041	PASS		
			HCH	TN	VN	0.86	0.00049	PASS		
					VH	2.36	0.00135	PASS		
					VL	-0.67	-0.00039	PASS		
		LTE/TM2	1.4	LCH	TN	VN	6.92	0.00405	PASS	
						VH	-0.13	-0.00008	PASS	
						VL	4.72	0.00272	PASS	
				MCH	TN	VN	10.89	0.00629	PASS	
						VH	13.29	0.00767	PASS	
						VL	1.56	0.00089	PASS	
				HCH	TN	VN	2.23	0.00127	PASS	
						VH	6.45	0.00368	PASS	
						VL	1.60	0.00093	PASS	
			3	LCH	TN	VN	1.77	0.00103	PASS	
						VH	2.15	0.00126	PASS	
						VL	2.99	0.00173	PASS	
			MCH	TN	VL	2.99	0.00173	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					VN	3.72	0.00215	PASS	
					VH	-2.02	-0.00117	PASS	
			HCH	TN	VL	5.85	0.00334	PASS	
					VN	3.03	0.00173	PASS	
						VH	2.72	0.00155	PASS
						VL	-1.50	-0.00088	PASS
		5	LCH	TN	VN	0.49	0.00029	PASS	
					VH	1.00	0.00058	PASS	
					VL	-0.37	-0.00021	PASS	
			MCH	TN	VN	3.29	0.0019	PASS	
					VH	6.95	0.00401	PASS	
					VL	-2.79	-0.00159	PASS	
		HCH	TN	VN	1.67	0.00095	PASS		
				VH	0.24	0.00014	PASS		
				VL	-1.54	-0.0009	PASS		
			LCH	TN	VN	0.34	0.0002	PASS	
					VH	1.17	0.00068	PASS	
					VL	-4.51	-0.0026	PASS	
		10	MCH	TN	VN	-1.47	-0.00085	PASS	
					VH	-0.29	-0.00017	PASS	
					VL	0.77	0.00044	PASS	
			HCH	TN	VN	5.05	0.00289	PASS	
					VH	-1.47	-0.00084	PASS	
					VL	1.14	0.00066	PASS	
		15	LCH	TN	VN	-0.47	-0.00027	PASS	
					VH	-0.79	-0.00046	PASS	
					VL	-5.55	-0.0032	PASS	
			MCH	TN	VN	-2.88	-0.00166	PASS	
					VH	-3.08	-0.00178	PASS	
					VL	-13.29	-0.00761	PASS	
		HCH	TN	VN	-0.06	-0.00003	PASS		
				VH	-25.49	-0.01459	PASS		
				VL	-4.11	-0.00239	PASS		
		20	LCH	TN	VN	-1.83	-0.00106	PASS	
					VH	-3.45	-0.00201	PASS	
					VL	-7.40	-0.00427	PASS	
			MCH	TN	VN	-8.91	-0.00514	PASS	
					VH	-7.41	-0.00428	PASS	
					VL	-1.83	-0.00105	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	1.49	0.00085	PASS
					VH	2.09	0.0012	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
BAND4	LTE/TM1	1.4	LCH	VN	-30	-7.95	-0.00465	PASS
					-20	6.55	0.00383	PASS
					-10	4.55	0.00266	PASS
					0	12.83	0.0075	PASS
					10	-6.02	-0.00352	PASS
					20	-10.66	-0.00623	PASS
					30	10.76	0.00629	PASS
					40	4.49	0.00262	PASS
			50	-12.32	-0.0072	PASS		
			MCH	VN	-30	0.92	0.00053	PASS
					-20	-11.06	-0.00638	PASS
					-10	-5.84	-0.00337	PASS
					0	-1.75	-0.00101	PASS
					10	-3.03	-0.00175	PASS
					20	1.67	0.00096	PASS
					30	-7.44	-0.00429	PASS
					40	3.15	0.00182	PASS
			50	2.30	0.00133	PASS		
			HCH	VN	-30	2.02	0.00115	PASS
					-20	0.06	0.00003	PASS
					-10	-0.86	-0.00049	PASS
					0	-7.32	-0.00417	PASS
					10	-2.46	-0.0014	PASS
					20	3.25	0.00185	PASS
		30			2.03	0.00116	PASS	
		40			0.72	0.00041	PASS	
		50	-6.17	-0.00352	PASS			
		3	LCH	VN	-30	2.85	0.00167	PASS
					-20	0.11	0.00006	PASS
					-10	1.44	0.00084	PASS
					0	0.97	0.00057	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		5			10	1.86	0.00109	PASS	
					20	-1.92	-0.00112	PASS	
					30	-4.36	-0.00255	PASS	
					40	0.49	0.00029	PASS	
					50	-5.95	-0.00348	PASS	
			MCH	VN	-30	1.52	0.00088	PASS	
					-20	-3.82	-0.0022	PASS	
					-10	-1.26	-0.00073	PASS	
					0	-4.61	-0.00266	PASS	
					10	-4.01	-0.00231	PASS	
					20	-2.66	-0.00154	PASS	
					30	-2.62	-0.00151	PASS	
					40	-3.03	-0.00175	PASS	
					50	7.71	0.00445	PASS	
			HCH	VN	-30	0.93	0.00053	PASS	
					-20	-1.65	-0.00094	PASS	
					-10	2.06	0.00117	PASS	
					0	1.95	0.00111	PASS	
					10	3.13	0.00179	PASS	
					20	0.03	0.00002	PASS	
					30	0.87	0.0005	PASS	
					40	2.46	0.0014	PASS	
			50	-4.56	-0.0026	PASS			
			LCH	VN	-30	3.39	0.00198	PASS	
		-20			2.62	0.00153	PASS		
		-10			-0.92	-0.00054	PASS		
		0			-1.32	-0.00077	PASS		
		10			0.23	0.00013	PASS		
		20			-0.64	-0.00037	PASS		
		30			-0.39	-0.00023	PASS		
		40			-1.50	-0.00088	PASS		
		50			-0.53	-0.00031	PASS		
		MCH			VN	-30	-1.42	-0.00082	PASS
						-20	-1.97	-0.00114	PASS
						-10	-4.71	-0.00272	PASS
			0	-5.05		-0.00291	PASS		
10	-4.18		-0.00241	PASS					
20	-3.75		-0.00216	PASS					
30	-1.79		-0.00103	PASS					

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					40	-1.00	-0.00058	PASS		
					50	-5.19	-0.003	PASS		
			HCH	VN	-30	0.16	0.00009	PASS		
					-20	-0.21	-0.00012	PASS		
					-10	2.52	0.00144	PASS		
					0	0.10	0.00006	PASS		
					10	1.20	0.00068	PASS		
					20	2.78	0.00159	PASS		
					30	-2.13	-0.00122	PASS		
					40	1.26	0.00072	PASS		
		50	-1.00	-0.00057	PASS					
					LCH	VN	-30	1.00	0.00058	PASS
							-20	1.47	0.00086	PASS
							-10	3.76	0.00219	PASS
							0	-0.17	-0.0001	PASS
							10	-0.63	-0.00037	PASS
							20	-1.03	-0.0006	PASS
							30	-3.86	-0.00225	PASS
							40	-0.97	-0.00057	PASS
							50	3.68	0.00215	PASS
										MCH
		-20	1.46	0.00084	PASS					
		-10	2.68	0.00155	PASS					
		0	-2.69	-0.00155	PASS					
		10	0.40	0.00023	PASS					
		20	1.73	0.001	PASS					
		30	-1.39	-0.0008	PASS					
		40	6.81	0.00393	PASS					
		50	-5.75	-0.00332	PASS					
					HCH	VN				
							-20	2.40	0.00137	PASS
							-10	0.77	0.00044	PASS
							0	2.40	0.00137	PASS
							10	4.92	0.00281	PASS
							20	0.79	0.00045	PASS
							30	0.62	0.00035	PASS
							40	1.09	0.00062	PASS
		50	3.28	0.00187	PASS					
		15	LCH	VN	-30	0.06	0.00003	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-20	-0.83	-0.00048	PASS	
					-10	-1.93	-0.00112	PASS	
					0	-0.89	-0.00052	PASS	
					10	-0.64	-0.00037	PASS	
					20	-0.70	-0.00041	PASS	
					30	0.16	0.00009	PASS	
					40	-2.60	-0.00151	PASS	
					50	-2.13	-0.00124	PASS	
			MCH	VN	-30	1.43	0.00083	PASS	
					-20	0.86	0.0005	PASS	
					-10	-2.55	-0.00147	PASS	
					0	-1.06	-0.00061	PASS	
					10	-1.27	-0.00073	PASS	
					20	-1.69	-0.00098	PASS	
					30	-2.63	-0.00152	PASS	
					40	-0.40	-0.00023	PASS	
			HCH	VN	-30	-1.04	-0.0006	PASS	
					-20	-1.33	-0.00076	PASS	
					-10	2.86	0.00164	PASS	
					0	-9.53	-0.00545	PASS	
					10	-2.98	-0.00171	PASS	
					20	-3.40	-0.00195	PASS	
					30	-2.60	-0.00149	PASS	
					40	2.25	0.00129	PASS	
			20	LCH	VN	-30	-3.20	-0.00186	PASS
						-20	-5.74	-0.00334	PASS
						-10	-3.39	-0.00197	PASS
						0	-3.58	-0.00208	PASS
		10				-4.39	-0.00255	PASS	
		20				-3.52	-0.00205	PASS	
		30				-2.42	-0.00141	PASS	
		40				-2.56	-0.00149	PASS	
		50		-2.70	-0.00157	PASS			
		MCH		VN	-30	-2.68	-0.00155	PASS	
					-20	-2.89	-0.00167	PASS	
					-10	0.67	0.00039	PASS	
			0		-3.45	-0.00199	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	0.33	0.00019	PASS
					20	-2.35	-0.00136	PASS
					30	-1.57	-0.00091	PASS
					40	2.03	0.00117	PASS
					50	-0.59	-0.00034	PASS
			HCH	VN	-30	-0.19	-0.00011	PASS
					-20	-1.42	-0.00081	PASS
					-10	1.03	0.00059	PASS
					0	-1.24	-0.00071	PASS
					10	-1.49	-0.00085	PASS
					20	-0.54	-0.00031	PASS
					30	0.27	0.00015	PASS
					40	-1.03	-0.00059	PASS
					50	0.39	0.00022	PASS
					LCH	VN	-30	3.85
			-20	7.31			0.00427	PASS
			-10	3.33			0.00195	PASS
			0	4.84			0.00283	PASS
			10	0.74			0.00043	PASS
			20	10.26			0.006	PASS
	30	-5.01	-0.00293	PASS				
	40	3.13	0.00183	PASS				
	50	4.46	0.00261	PASS				
	MCH	VN	-30	-1.42			-0.00082	PASS
			-20	2.49	0.00144	PASS		
			-10	1.50	0.00087	PASS		
			0	2.10	0.00121	PASS		
			10	-3.99	-0.0023	PASS		
			20	-4.41	-0.00255	PASS		
			30	-4.66	-0.00269	PASS		
			40	3.62	0.00209	PASS		
			50	-6.52	-0.00376	PASS		
			HCH	VN	-30	5.35	0.00305	PASS
	-20	8.40			0.00479	PASS		
	-10	3.43			0.00196	PASS		
	0	-0.01			-0.00001	PASS		
	10	-1.63			-0.00093	PASS		
	20	3.62			0.00206	PASS		
	30	0.89			0.00051	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					40	1.04	0.00059	PASS		
					50	2.63	0.0015	PASS		
		3	LCH	VN	-30	4.99	0.00292	PASS		
					-20	2.27	0.00133	PASS		
					-10	2.63	0.00154	PASS		
					0	3.60	0.0021	PASS		
					10	0.51	0.0003	PASS		
					20	0.46	0.00027	PASS		
					30	-2.52	-0.00147	PASS		
					40	3.48	0.00203	PASS		
					50	2.53	0.00148	PASS		
					MCH	VN	-30	-3.66	-0.00211	PASS
							-20	-3.32	-0.00192	PASS
							-10	-0.67	-0.00039	PASS
							0	-2.52	-0.00145	PASS
							10	-2.02	-0.00117	PASS
							20	0.21	0.00012	PASS
							30	-1.06	-0.00061	PASS
							40	0.96	0.00055	PASS
					HCH	VN	50	0.16	0.00009	PASS
		-30	-0.23	-0.00013			PASS			
		-20	-0.41	-0.00023			PASS			
		-10	-2.85	-0.00163			PASS			
		0	-1.90	-0.00108			PASS			
		10	1.96	0.00112			PASS			
		20	-0.89	-0.00051			PASS			
		30	-1.79	-0.00102			PASS			
		5	LCH	VN	40	0.62	0.00035	PASS		
					50	-1.56	-0.00089	PASS		
					-30	-3.16	-0.00185	PASS		
					-20	0.04	0.00002	PASS		
					-10	2.49	0.00145	PASS		
0	-4.05				-0.00236	PASS				
10	1.65				0.00096	PASS				
20	0.01				0.00001	PASS				
30	-0.67				-0.00039	PASS				
40	-4.21		-0.00246	PASS						
MCH	VN	50	-1.43	-0.00084	PASS					
MCH	VN	-30	4.08	0.00235	PASS					