

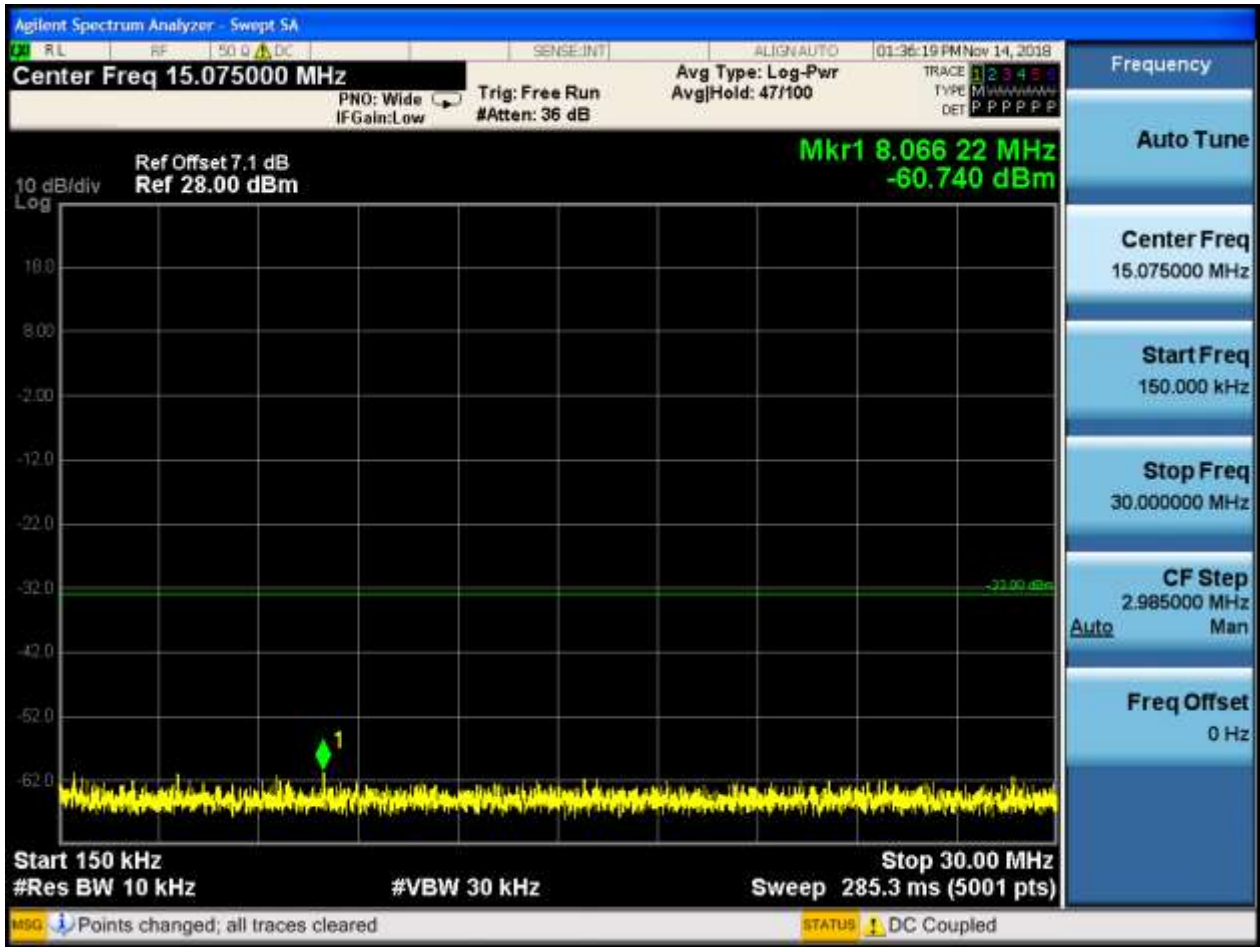


6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



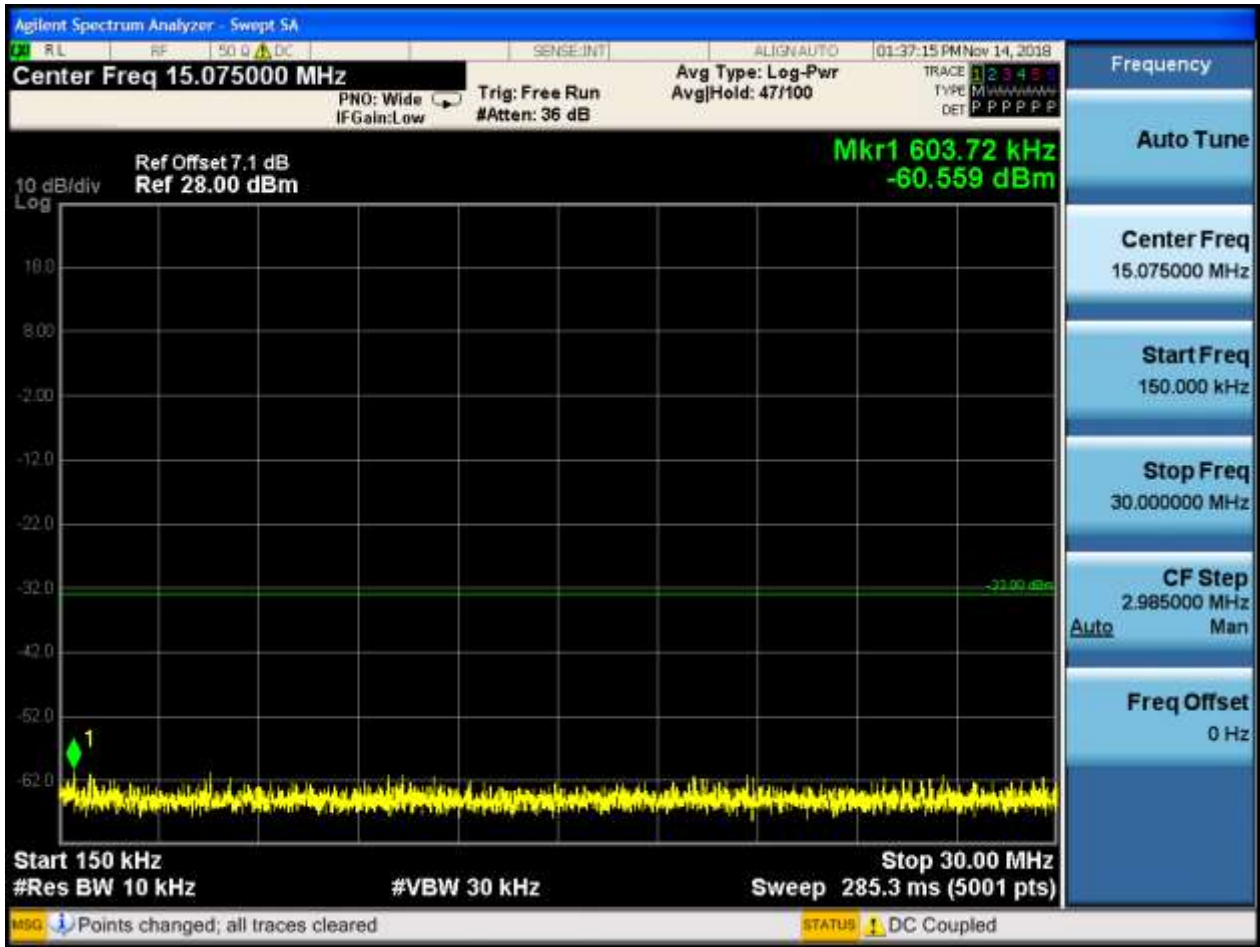




6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



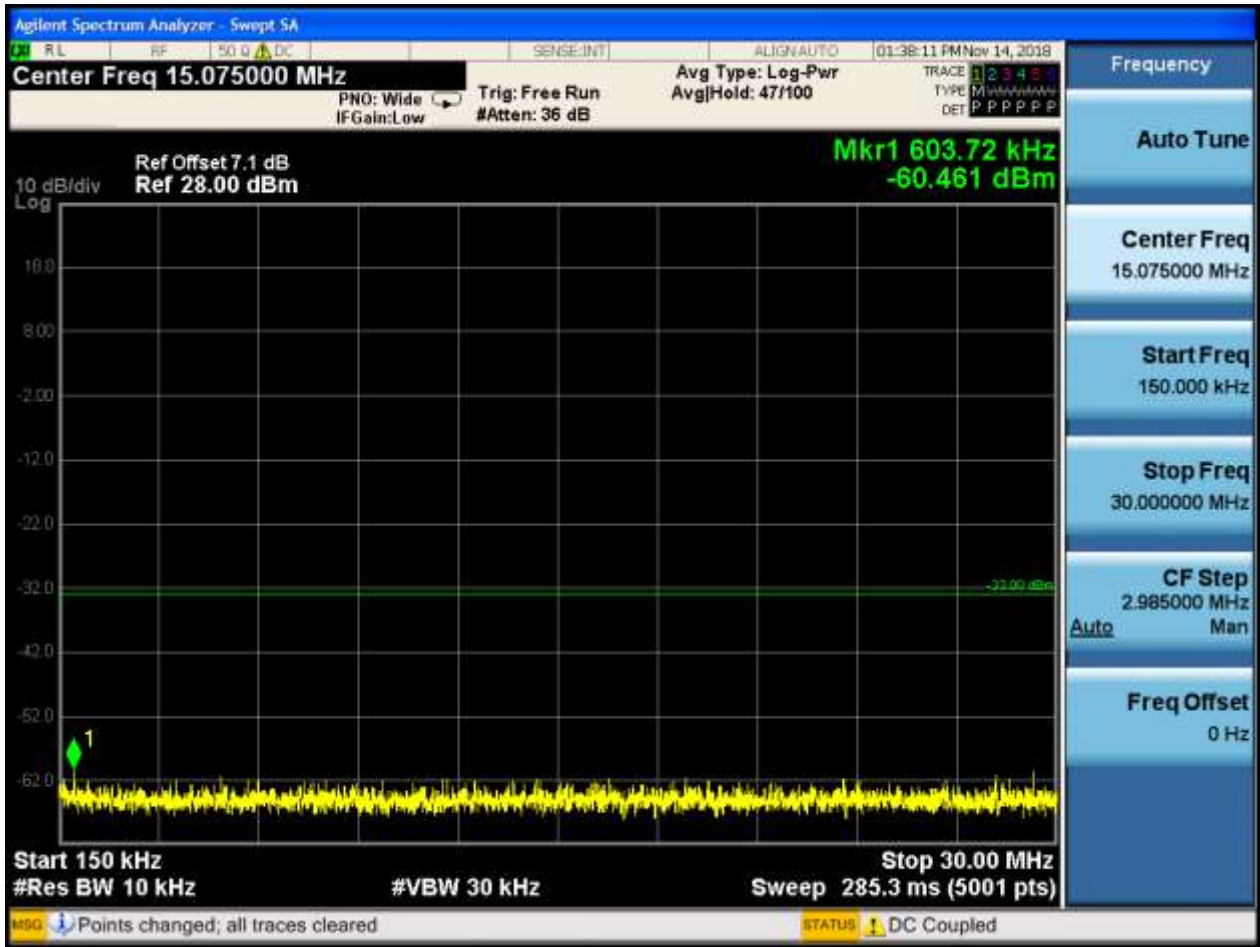




6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0





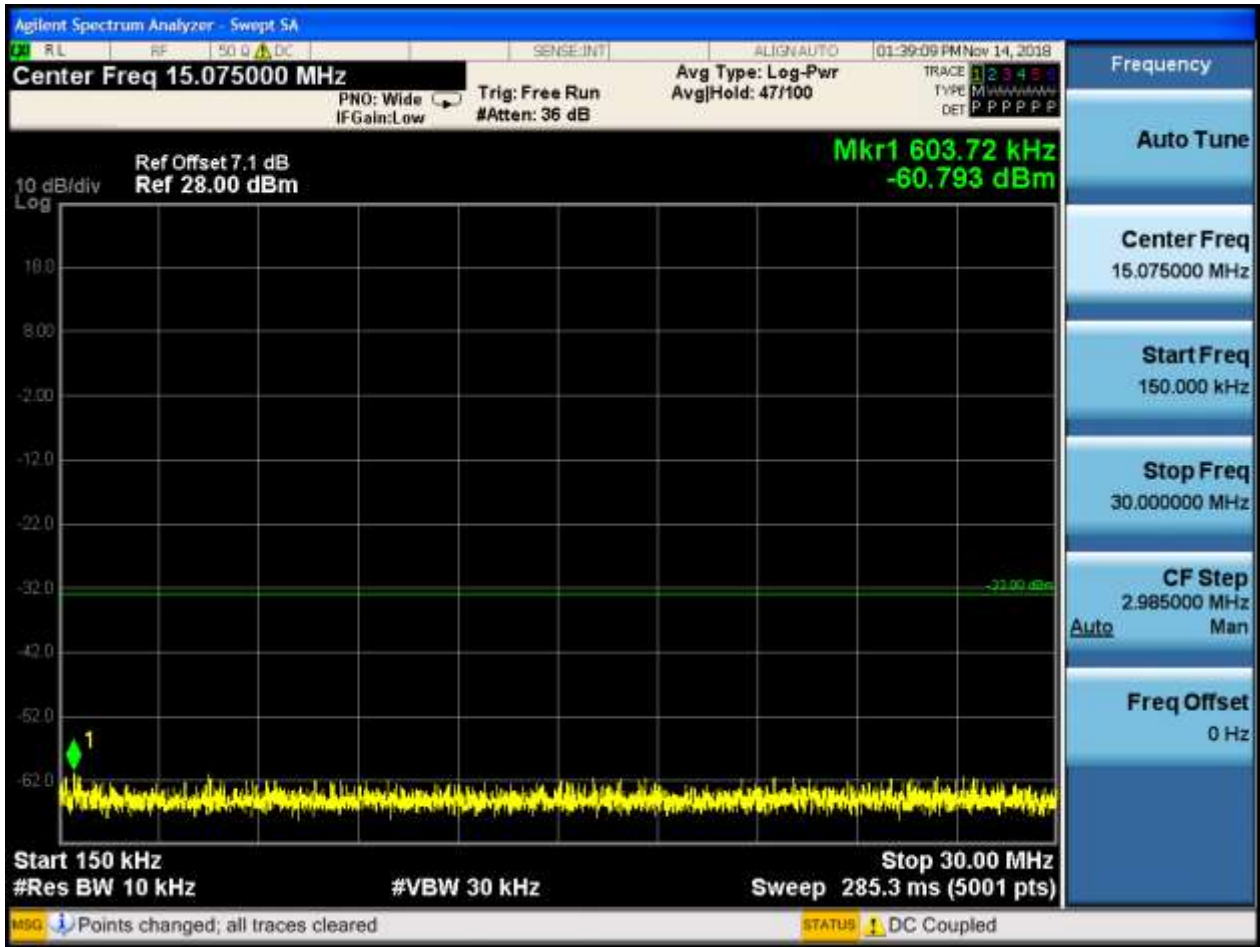


6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





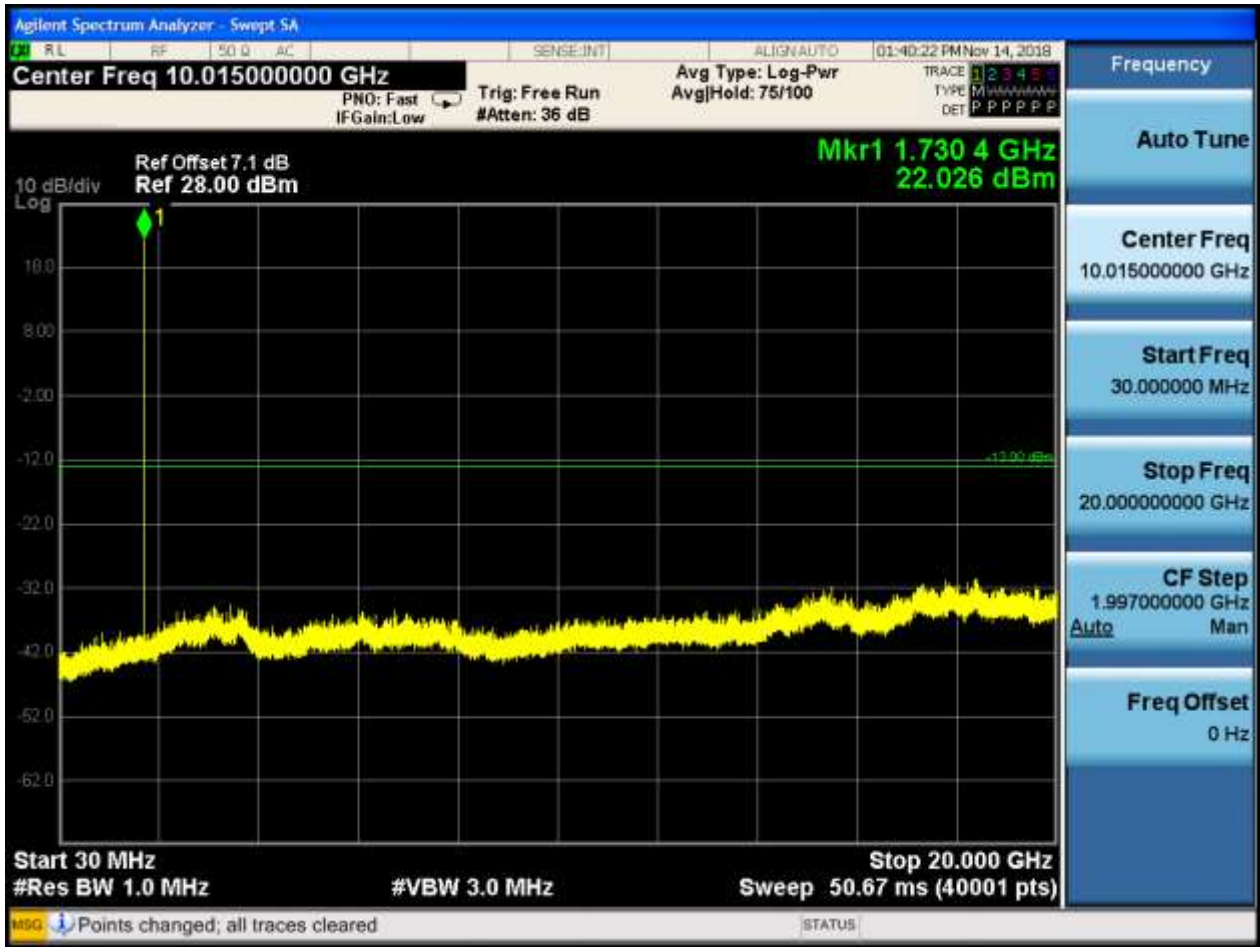


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



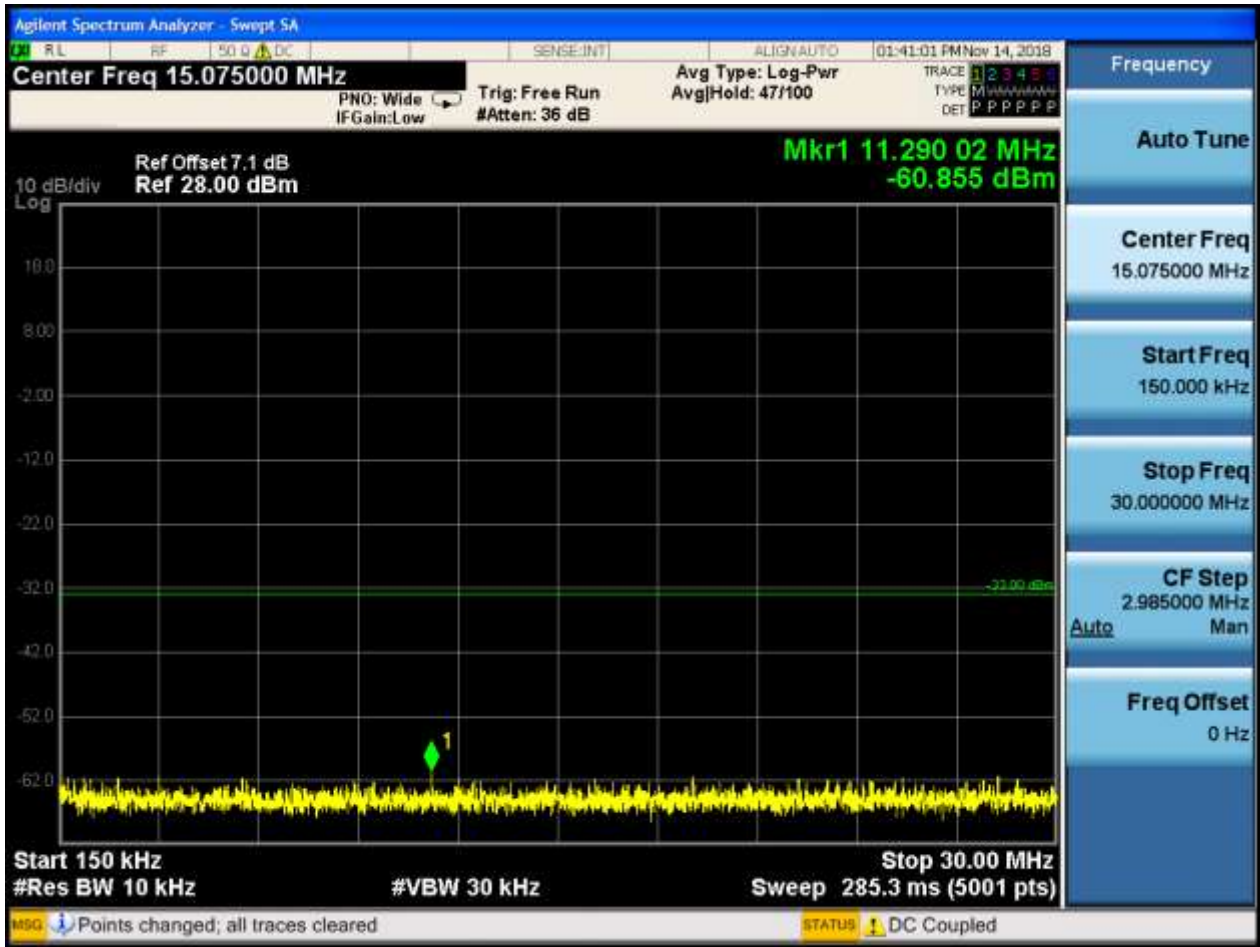




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





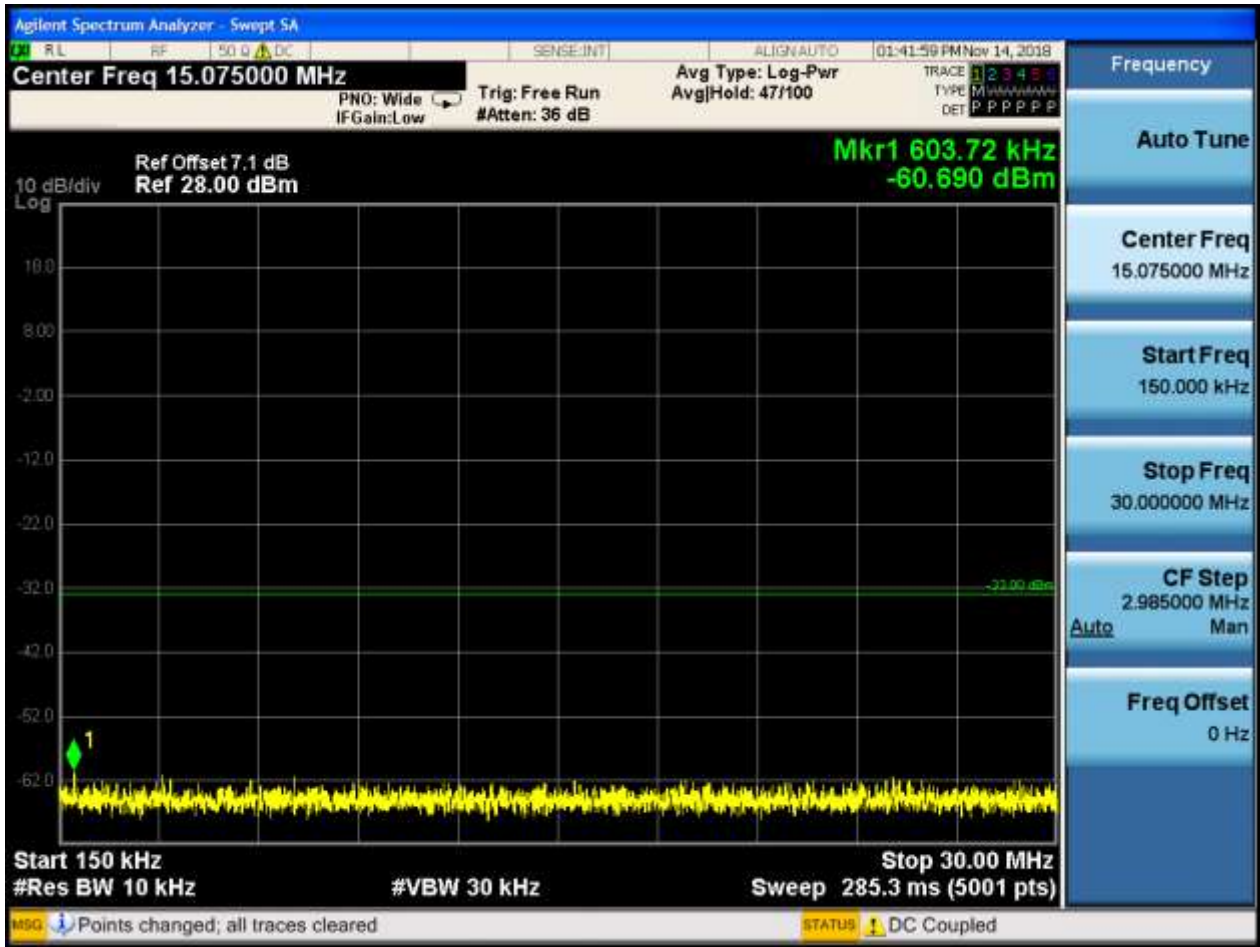


6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



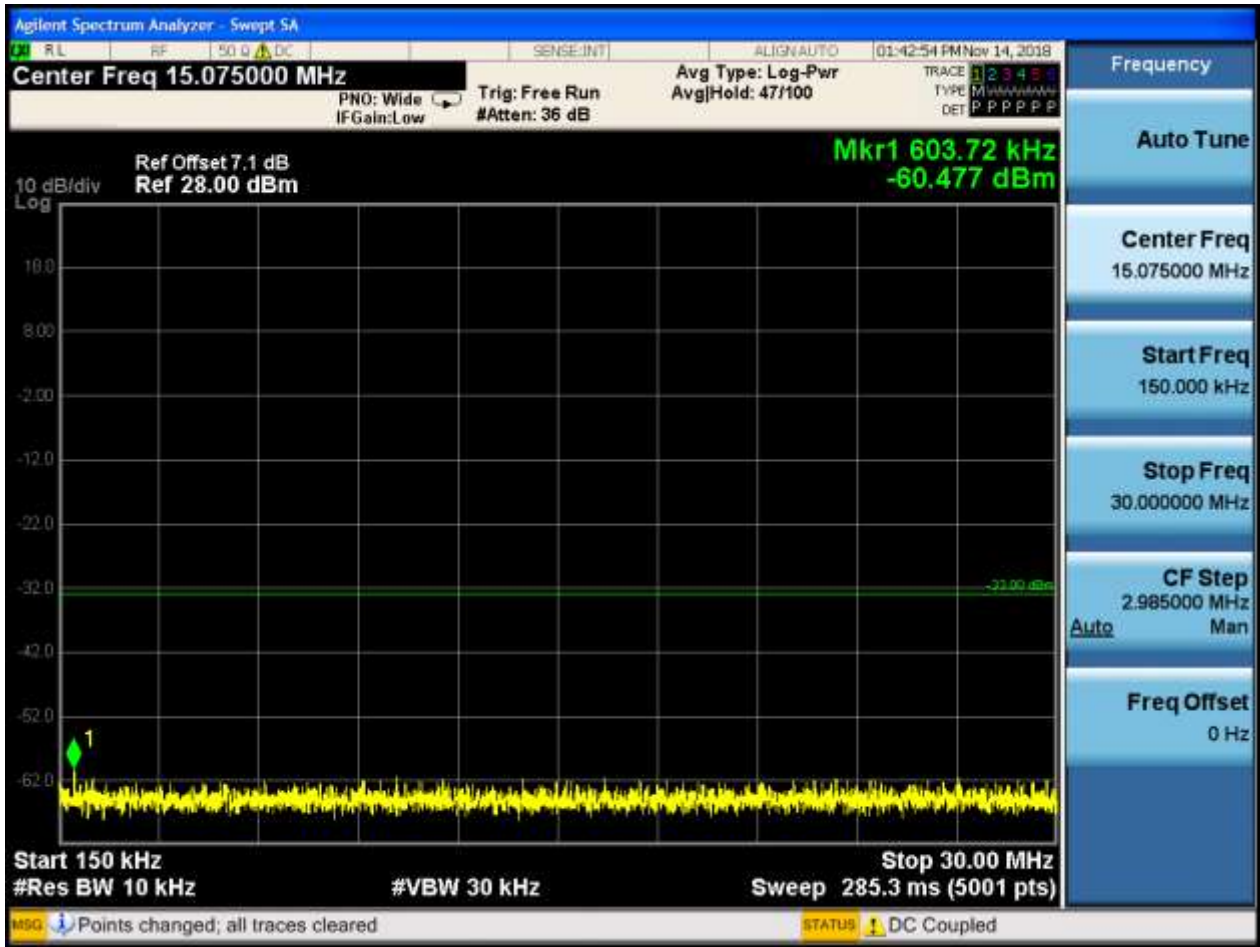


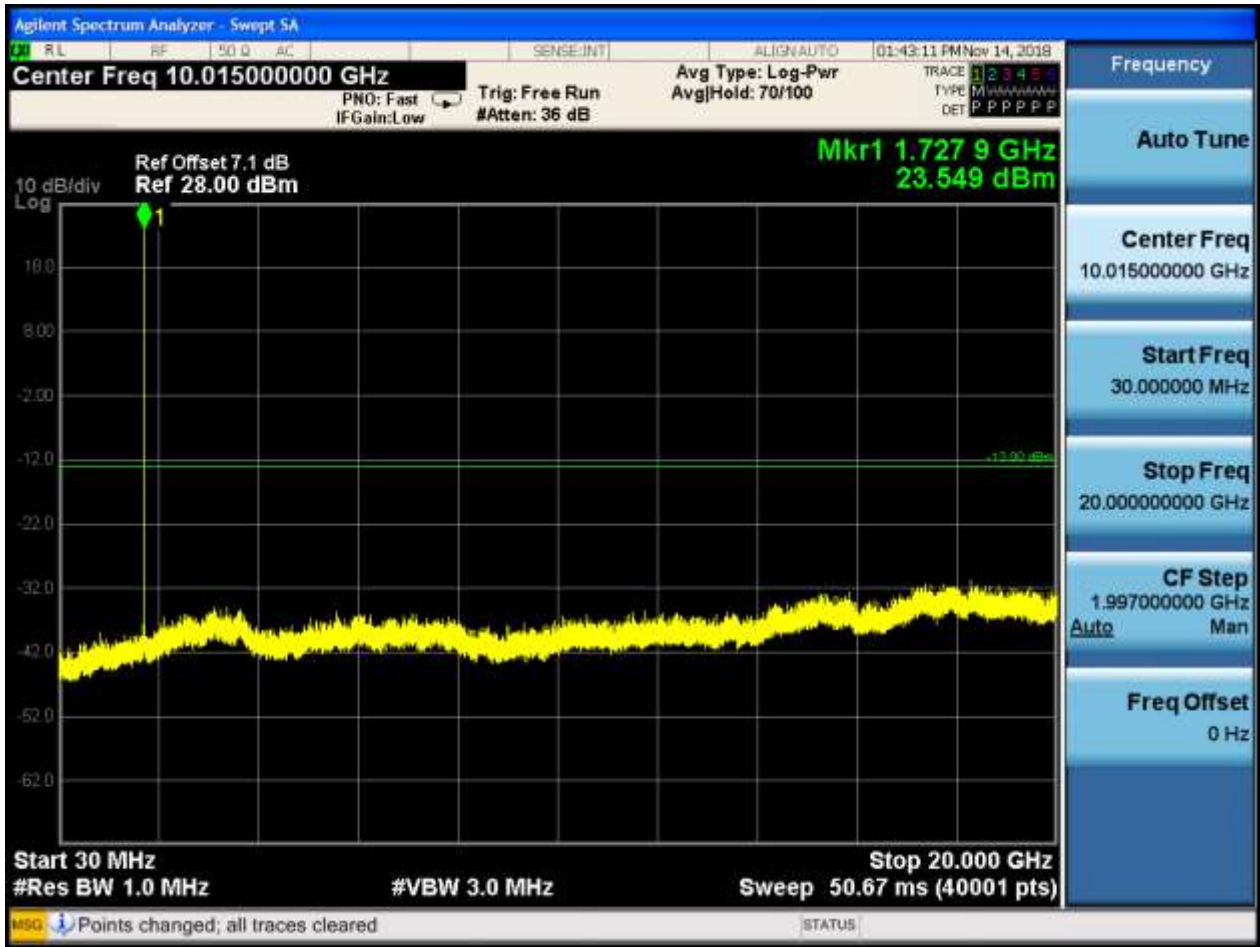


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



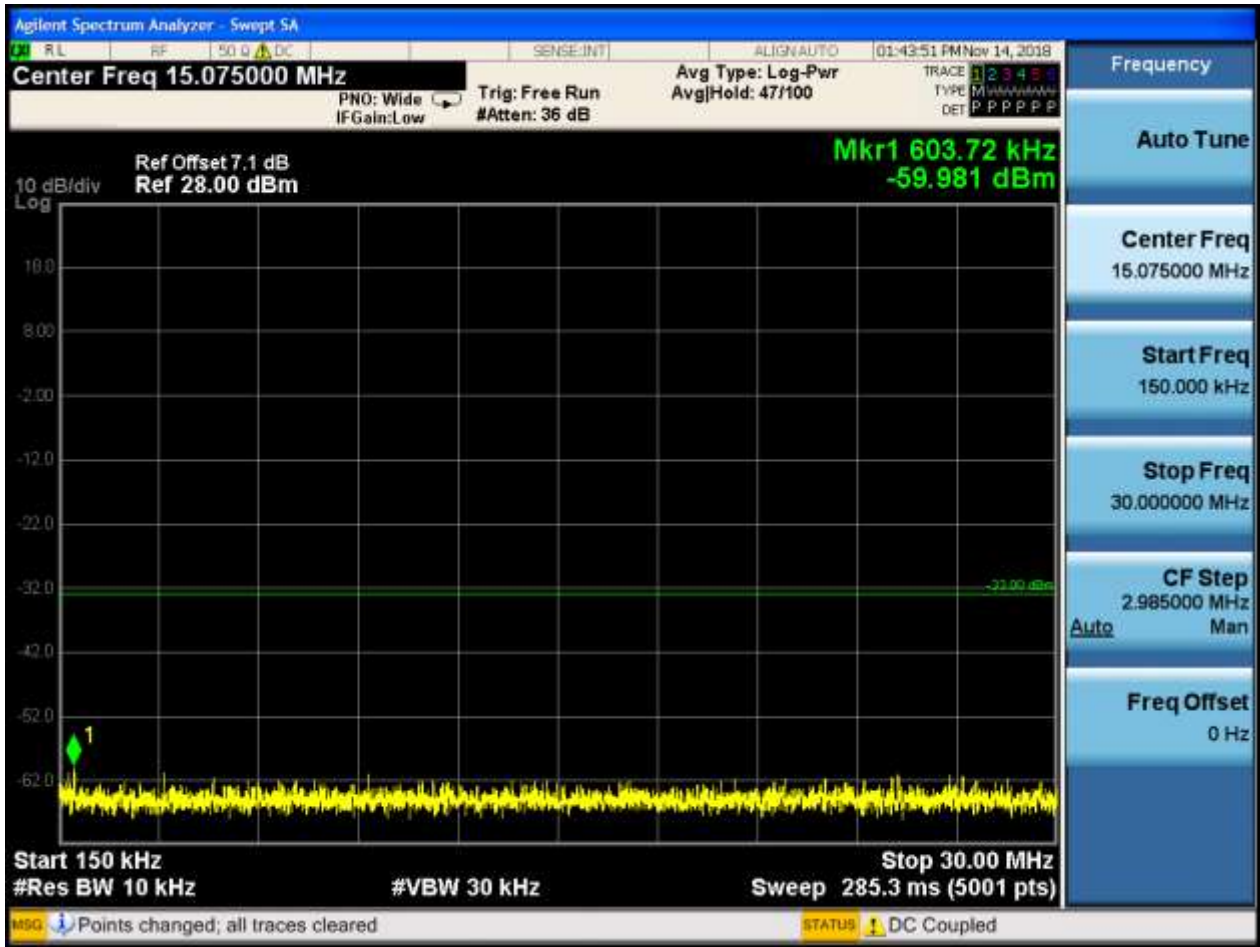




6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0





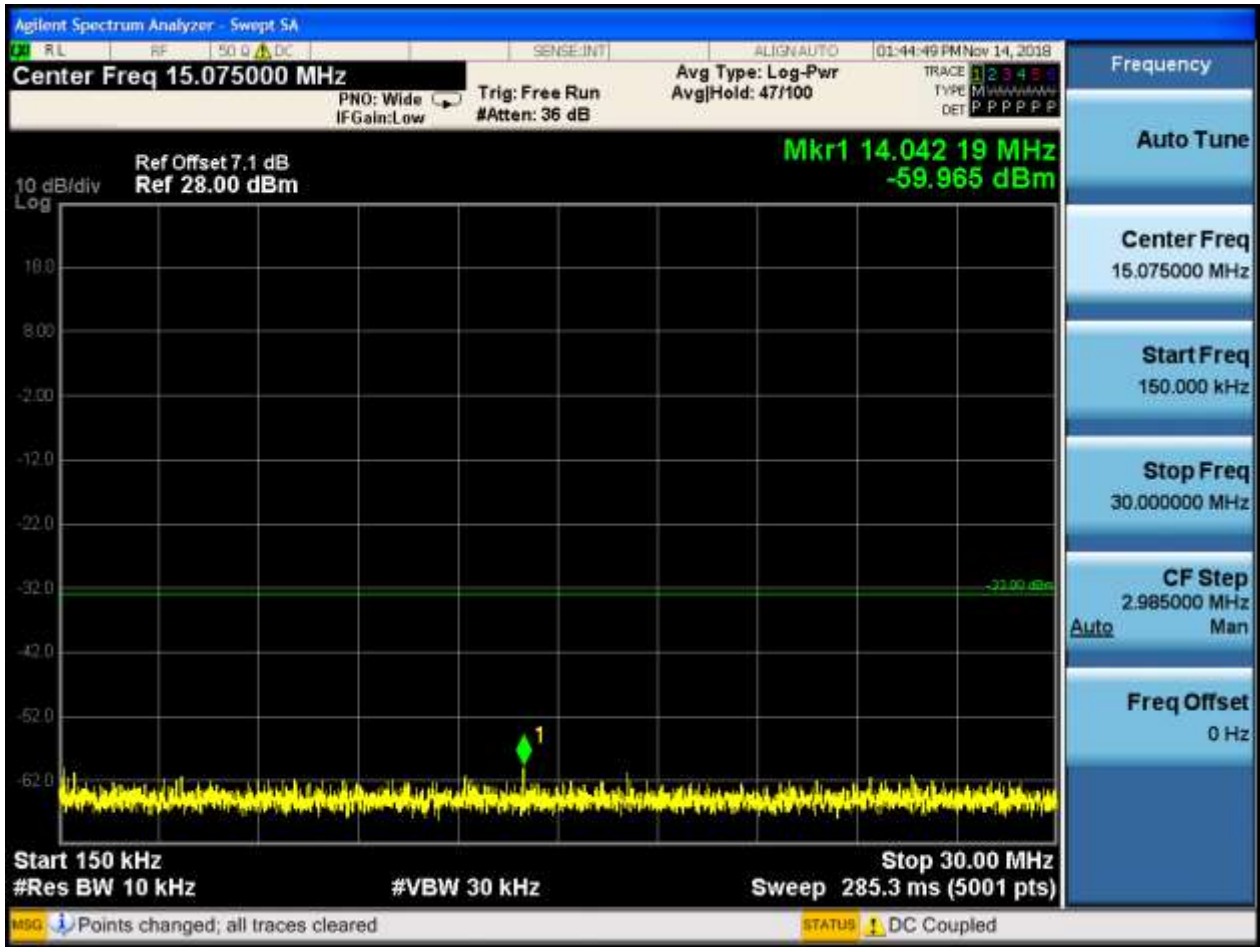


6.1.1.2.5 Test Bandwidth = 15

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



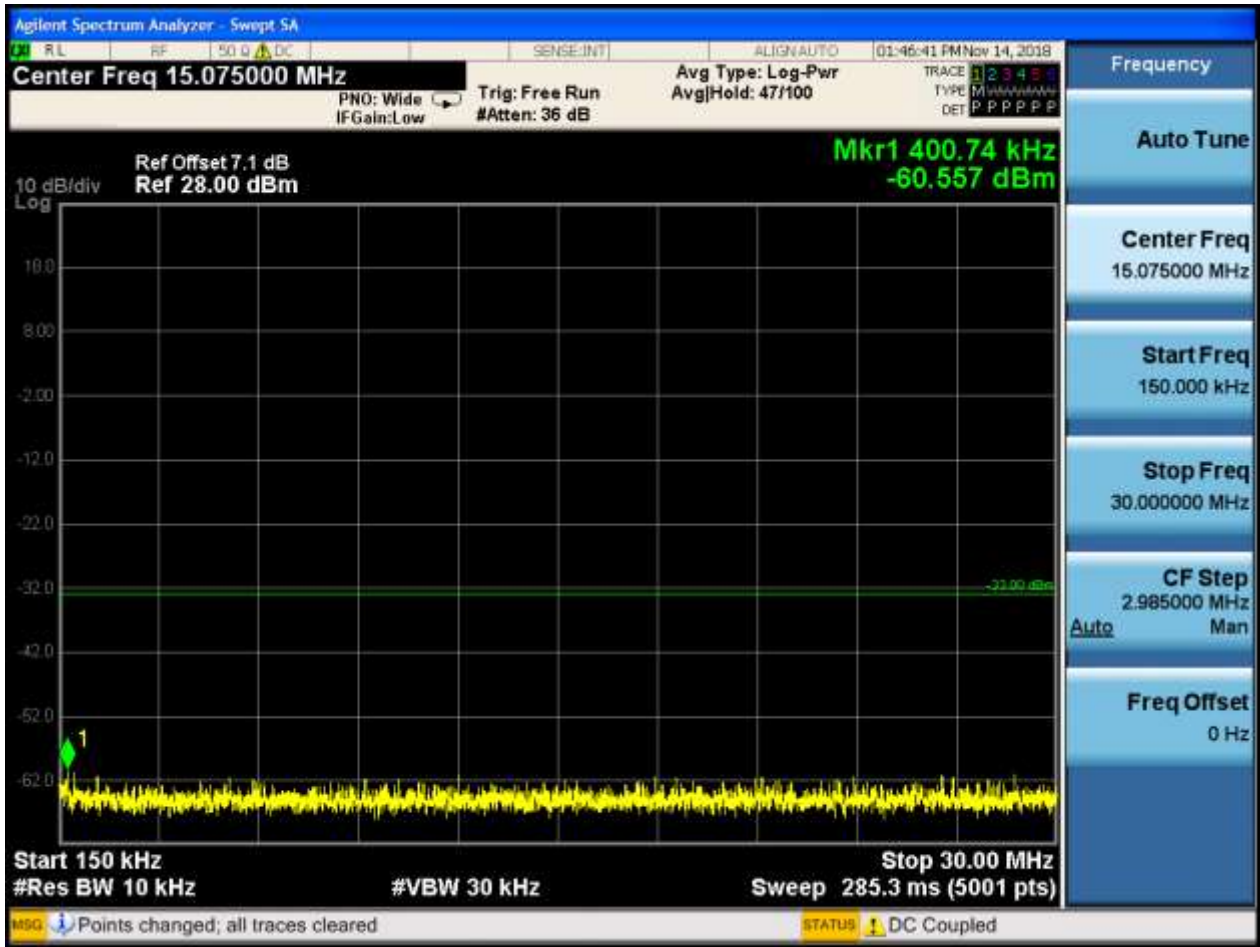




6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0





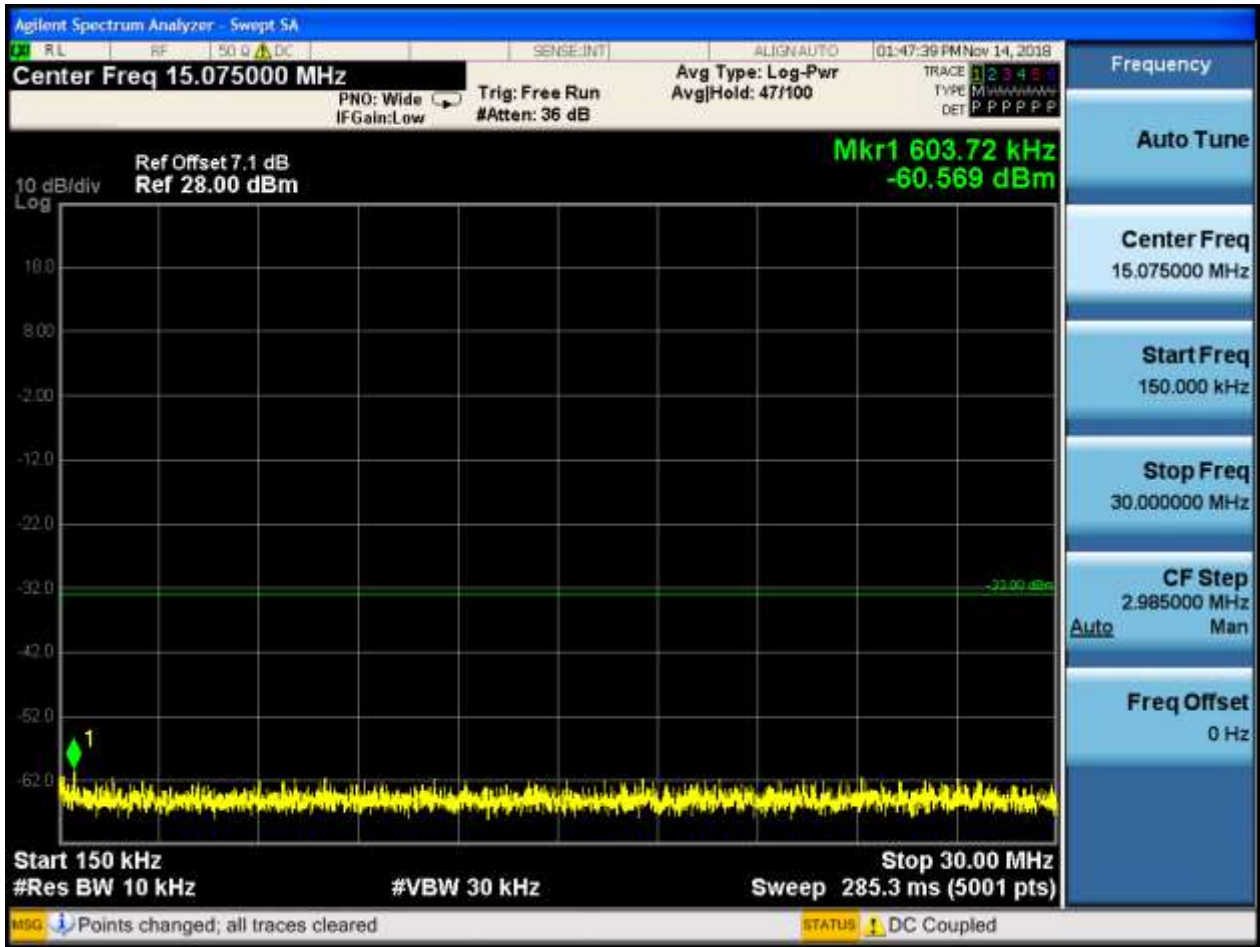


6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0



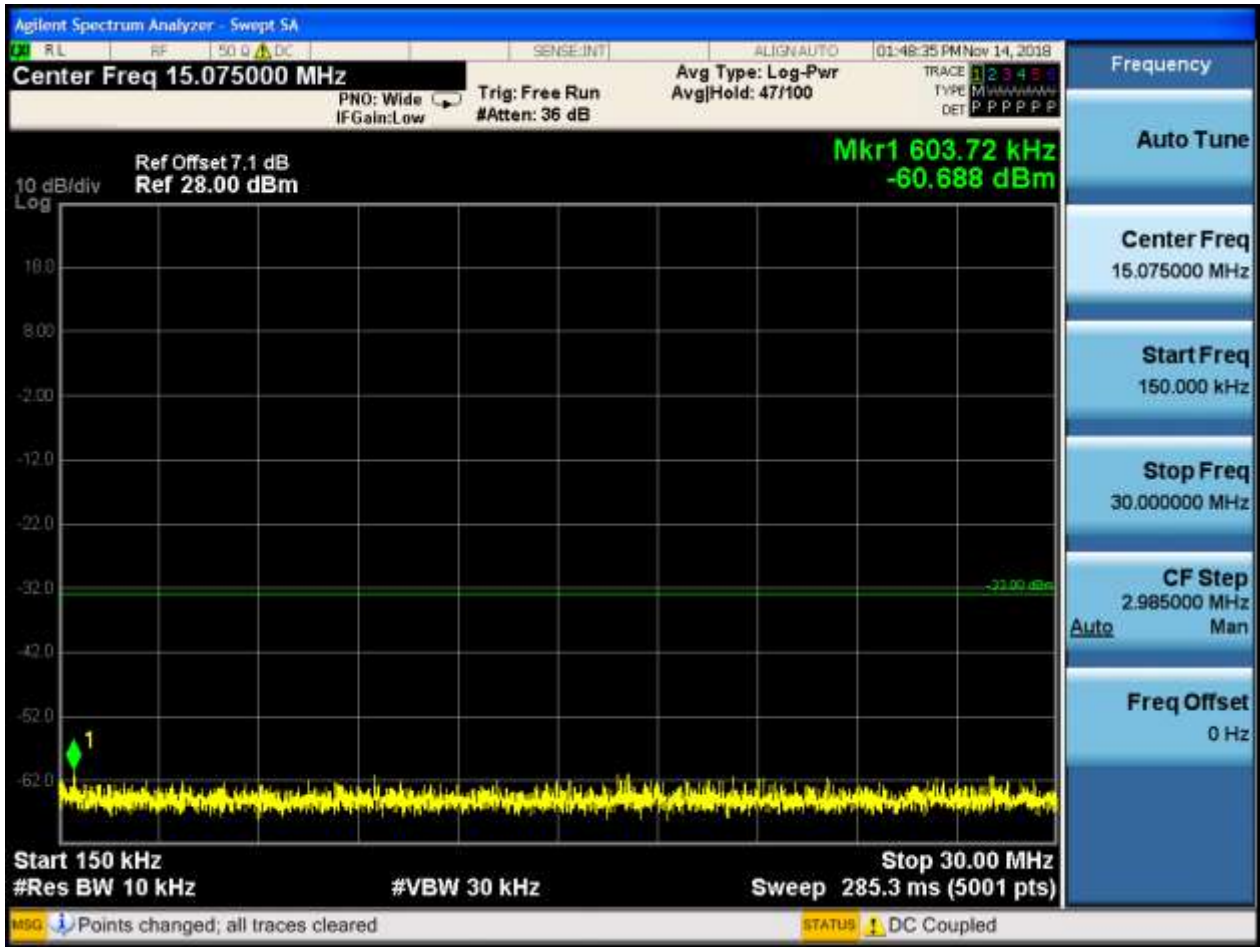




6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0



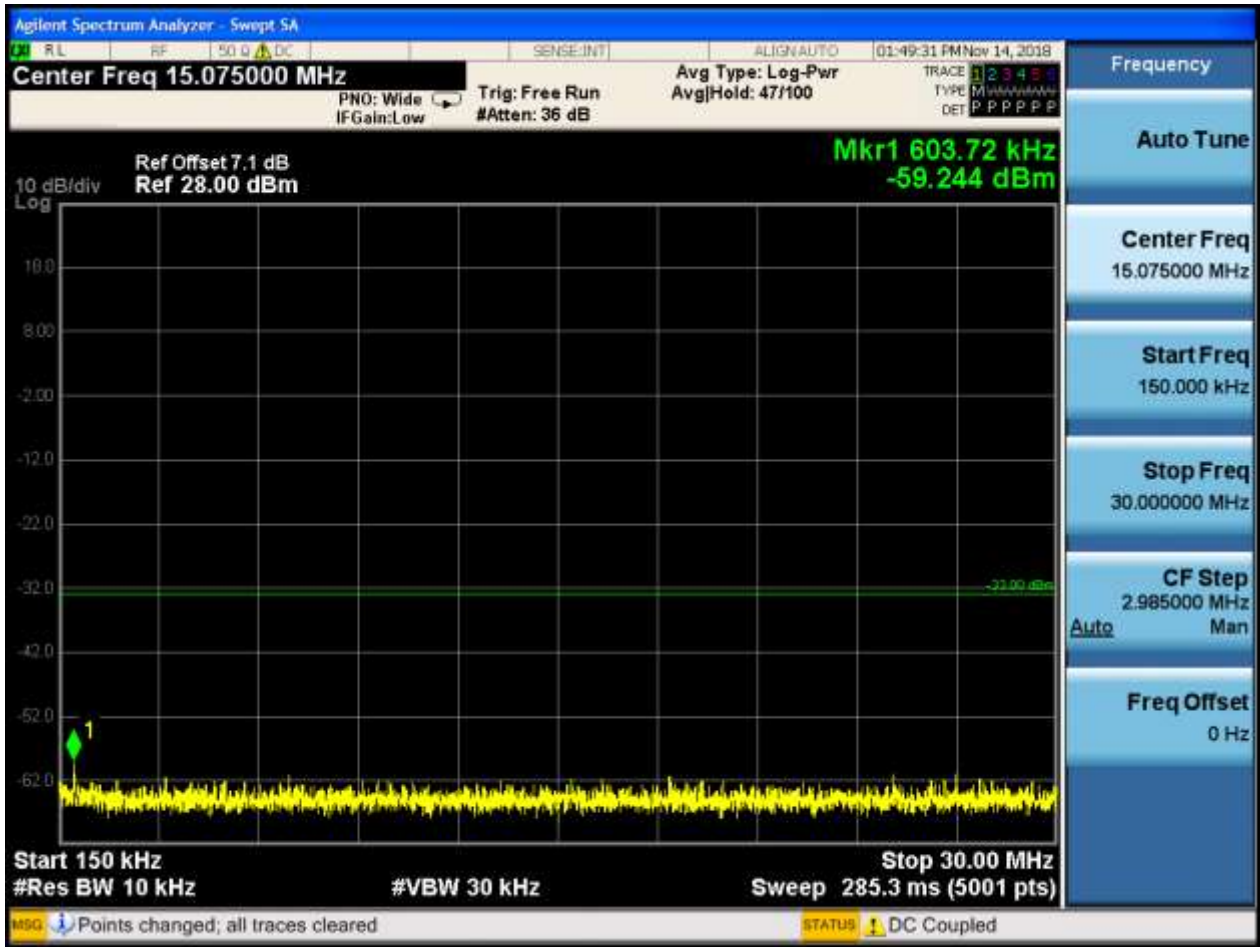




6.1.1.2.6.3 Test Channel = HCH

6.1.1.2.6.3.1 Test RB = RB1#0







7Appendix_G: Frequency Stability

7.1 For LTE

7.1.1 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	3.08	0.0018	PASS
					VN	4.71	0.00275	PASS
					VH	3.95	0.00231	PASS
			MCH	TN	VL	1.20	0.00069	PASS
					VN	-0.06	-0.00003	PASS
					VH	-0.99	-0.00057	PASS
			HCH	TN	VL	-1.54	-0.00088	PASS
					VN	-0.44	-0.00025	PASS
					VH	-3.86	-0.0022	PASS
		3	LCH	TN	VL	0.40	0.00023	PASS
					VN	-0.67	-0.00039	PASS
					VH	0.83	0.00048	PASS
			MCH	TN	VL	0.92	0.00053	PASS
					VN	0.13	0.00008	PASS
					VH	0.94	0.00054	PASS
			HCH	TN	VL	0.73	0.00042	PASS
					VN	-0.17	-0.0001	PASS
					VH	0.83	0.00047	PASS
		5	LCH	TN	VL	1.76	0.00103	PASS
					VN	2.69	0.00157	PASS
					VH	1.03	0.0006	PASS
			MCH	TN	VL	0.06	0.00003	PASS
					VN	-1.30	-0.00075	PASS
					VH	0.23	0.00013	PASS
			HCH	TN	VL	-2.80	-0.0016	PASS
					VN	-3.49	-0.00199	PASS
					VH	-1.47	-0.00084	PASS
		10	LCH	TN	VL	-2.52	-0.00147	PASS
					VN	-2.75	-0.0016	PASS
					VH	-2.70	-0.00157	PASS
			MCH	TN	VL	0.89	0.00051	PASS

		15	HCH	TN	VN	0.43	0.00025	PASS			
					VH	0.64	0.00037	PASS			
					VL	1.69	0.00097	PASS			
					VN	2.73	0.00156	PASS			
					VH	0.82	0.00047	PASS			
					VN	0.13	0.00008	PASS			
			LCH	TN	VN	0.19	0.00011	PASS			
					VH	0.40	0.00023	PASS			
					MCH	TN	VL	1.42	0.00082	PASS	
							VN	0.97	0.00056	PASS	
							VH	0.79	0.00046	PASS	
					HCH	TN	VL	0.43	0.00025	PASS	
		VN	0.39	0.00022			PASS				
		VH	-0.54	-0.00031			PASS				
		20	LCH	TN	VL	1.12	0.00065	PASS			
					VN	0.92	0.00053	PASS			
					VH	1.32	0.00077	PASS			
					MCH	TN	VL	0.53	0.00031	PASS	
							VN	1.07	0.00062	PASS	
							VH	0.60	0.00035	PASS	
			HCH	TN	VL	-3.56	-0.00204	PASS			
					VN	-4.39	-0.00252	PASS			
					VH	-2.56	-0.00147	PASS			
			LTE/TM2	1.4	LCH	TN	VL	1.95	0.00114	PASS	
							VN	0.10	0.00006	PASS	
							VH	2.02	0.00118	PASS	
		MCH					TN	VL	-1.24	-0.00072	PASS
								VN	1.30	0.00075	PASS
								VH	2.82	0.00163	PASS
		HCH			TN	VL	-3.18	-0.00181	PASS		
						VN	-2.10	-0.0012	PASS		
						VH	-6.38	-0.00364	PASS		
		3			LCH	TN	VL	-0.79	-0.00046	PASS	
							VN	1.92	0.00112	PASS	
							VH	-0.54	-0.00032	PASS	
				MCH			TN	VL	-2.98	-0.00172	PASS
								VN	-4.31	-0.00249	PASS
								VH	-1.75	-0.00101	PASS
		HCH		TN	VL	-0.62	-0.00035	PASS			
					VN	0.17	0.0001	PASS			
VH	-0.31				-0.00018	PASS					
5	LCH	TN	VL	0.79	0.00046	PASS					

				MCH	TN	VN	0.46	0.00027	PASS
						VH	2.36	0.00138	PASS
						VL	-1.60	-0.00092	PASS
						VN	-1.57	-0.00091	PASS
						VH	-0.10	-0.00006	PASS
						VH	-0.10	-0.00006	PASS
			HCH	TN	VL	-3.56	-0.00203	PASS	
					VN	-2.95	-0.00168	PASS	
					VH	-4.58	-0.00261	PASS	
					VH	-4.58	-0.00261	PASS	
					VH	-4.58	-0.00261	PASS	
					VH	-4.58	-0.00261	PASS	
		10	LCH	TN	VL	-2.00	-0.00117	PASS	
					VN	-3.20	-0.00187	PASS	
					VH	-3.29	-0.00192	PASS	
					VH	-3.29	-0.00192	PASS	
					VH	-3.29	-0.00192	PASS	
					VH	-3.29	-0.00192	PASS	
			MCH	TN	VL	0.40	0.00023	PASS	
					VN	0.84	0.00048	PASS	
					VH	0.41	0.00024	PASS	
					VH	0.41	0.00024	PASS	
					VH	0.41	0.00024	PASS	
					VH	0.41	0.00024	PASS	
		HCH	TN	VL	1.87	0.00107	PASS		
				VN	0.66	0.00038	PASS		
				VH	1.49	0.00085	PASS		
				VH	1.49	0.00085	PASS		
				VH	1.49	0.00085	PASS		
				VH	1.49	0.00085	PASS		
15	LCH	TN	VL	0.83	0.00048	PASS			
			VN	1.04	0.00061	PASS			
			VH	0.80	0.00047	PASS			
			VH	0.80	0.00047	PASS			
			VH	0.80	0.00047	PASS			
			VH	0.80	0.00047	PASS			
	MCH	TN	VL	0.54	0.00031	PASS			
			VN	0.92	0.00053	PASS			
			VH	1.19	0.00069	PASS			
			VH	1.19	0.00069	PASS			
			VH	1.19	0.00069	PASS			
			VH	1.19	0.00069	PASS			
HCH	TN	VL	-0.10	-0.00006	PASS				
		VN	0.51	0.00029	PASS				
		VH	-0.49	-0.00028	PASS				
		VH	-0.49	-0.00028	PASS				
		VH	-0.49	-0.00028	PASS				
		VH	-0.49	-0.00028	PASS				
20	LCH	TN	VL	0.97	0.00056	PASS			
			VN	-0.07	-0.00004	PASS			
			VH	1.09	0.00063	PASS			
			VH	1.09	0.00063	PASS			
			VH	1.09	0.00063	PASS			
			VH	1.09	0.00063	PASS			
	MCH	TN	VL	0.44	0.00025	PASS			
			VN	0.97	0.00056	PASS			
			VH	-0.11	-0.00006	PASS			
			VH	-0.11	-0.00006	PASS			
			VH	-0.11	-0.00006	PASS			
			VH	-0.11	-0.00006	PASS			
HCH	TN	VL	-3.50	-0.00201	PASS				
		VN	-3.99	-0.00229	PASS				
		VH	-3.86	-0.00221	PASS				
		VH	-3.86	-0.00221	PASS				
		VH	-3.86	-0.00221	PASS				
		VH	-3.86	-0.00221	PASS				

7.1.2 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	1.34	0.00078	PASS
					-20	-0.46	-0.00027	PASS
					-10	3.73	0.00218	PASS
					0	-0.09	-0.00005	PASS
					10	2.78	0.00163	PASS
					20	0.97	0.00057	PASS
					30	3.33	0.00195	PASS
					40	-0.86	-0.0005	PASS
					50	2.45	0.00143	PASS
			MCH	VN	-30	-0.74	-0.00043	PASS
					-20	0.14	0.00008	PASS
					-10	0.97	0.00056	PASS
					0	0.43	0.00025	PASS
					10	0.30	0.00017	PASS
					20	0.17	0.0001	PASS
					30	-1.50	-0.00087	PASS
					40	0.64	0.00037	PASS
					50	-0.66	-0.00038	PASS
		HCH	VN	-30	-0.84	-0.00048	PASS	
				-20	-2.16	-0.00123	PASS	
				-10	0.17	0.0001	PASS	
				0	-3.81	-0.00217	PASS	
				10	-2.36	-0.00135	PASS	
				20	-2.53	-0.00144	PASS	
				30	-2.86	-0.00163	PASS	
				40	-2.27	-0.00129	PASS	
				50	-3.83	-0.00218	PASS	
3	LCH	VN	-30	0.56	0.00033	PASS		
			-20	1.99	0.00116	PASS		
			-10	1.39	0.00081	PASS		
			0	1.77	0.00103	PASS		
			10	0.92	0.00054	PASS		
			20	1.06	0.00062	PASS		
			30	0.82	0.00048	PASS		
			40	1.86	0.00109	PASS		
			50	1.59	0.00093	PASS		



		MCH	VN	-30	-1.86	-0.00107	PASS	
				-20	-1.02	-0.00059	PASS	
				-10	-1.17	-0.00068	PASS	
				0	-2.06	-0.00119	PASS	
				10	-1.23	-0.00071	PASS	
				20	-0.23	-0.00013	PASS	
				30	-0.06	-0.00003	PASS	
				40	-1.36	-0.00078	PASS	
			50	-0.13	-0.00008	PASS		
			HCH	VN	-30	1.60	0.00091	PASS
					-20	-0.43	-0.00025	PASS
					-10	1.00	0.00057	PASS
					0	-1.27	-0.00072	PASS
					10	0.73	0.00042	PASS
					20	0.34	0.00019	PASS
					30	2.85	0.00163	PASS
		40			0.23	0.00013	PASS	
		LCH	VN	-30	0.72	0.00042	PASS	
				-20	1.69	0.00099	PASS	
				-10	1.60	0.00093	PASS	
				0	2.22	0.0013	PASS	
				10	4.33	0.00253	PASS	
				20	2.65	0.00155	PASS	
				30	0.72	0.00042	PASS	
				40	2.33	0.00136	PASS	
			50	2.35	0.00137	PASS		
			MCH	VN	-30	2.32	0.00134	PASS
					-20	2.56	0.00148	PASS
					-10	2.00	0.00115	PASS
					0	0.44	0.00025	PASS
					10	0.43	0.00025	PASS
					20	1.60	0.00092	PASS
					30	0.74	0.00043	PASS
		40			1.26	0.00073	PASS	
		HCH	VN	50	0.90	0.00052	PASS	
				-30	-2.98	-0.0017	PASS	
				-20	-1.72	-0.00098	PASS	
				-10	-2.33	-0.00133	PASS	
				0	-2.00	-0.00114	PASS	
				10	-3.29	-0.00188	PASS	
20	-2.39			-0.00136	PASS			
5								

		10	LCH	VN	30	-2.39	-0.00136	PASS
					40	-3.10	-0.00177	PASS
					50	-1.50	-0.00086	PASS
					-30	-2.27	-0.00132	PASS
					-20	-2.27	-0.00132	PASS
					-10	-2.53	-0.00148	PASS
			0	-3.26	-0.0019	PASS		
			10	-2.37	-0.00138	PASS		
			20	-2.59	-0.00151	PASS		
			30	-1.42	-0.00083	PASS		
			40	-3.19	-0.00186	PASS		
			50	-2.65	-0.00155	PASS		
		10	MCH	VN	-30	-0.23	-0.00013	PASS
					-20	-1.04	-0.0006	PASS
					-10	-0.41	-0.00024	PASS
					0	-0.11	-0.00006	PASS
					10	-0.51	-0.00029	PASS
					20	0.57	0.00033	PASS
			30	-0.03	-0.00002	PASS		
			40	0.63	0.00036	PASS		
			50	-0.34	-0.0002	PASS		
			HCH	VN	-30	3.36	0.00192	PASS
					-20	1.32	0.00075	PASS
					-10	1.47	0.00084	PASS
		0			1.95	0.00111	PASS	
		10			1.92	0.0011	PASS	
		20			2.27	0.0013	PASS	
		15	LCH	VN	30	2.29	0.00131	PASS
					40	1.75	0.001	PASS
					50	1.82	0.00104	PASS
					-30	0.39	0.00023	PASS
					-20	0.62	0.00036	PASS
					-10	0.06	0.00003	PASS
			0	0.24	0.00014	PASS		
			10	-0.30	-0.00017	PASS		
			20	0.03	0.00002	PASS		
			30	0.53	0.00031	PASS		
			40	-0.13	-0.00008	PASS		
			50	-0.10	-0.00006	PASS		
		MCH	VN	-30	-0.77	-0.00044	PASS	
				-20	1.26	0.00073	PASS	
				-10	-0.11	-0.00006	PASS	



					0	0.14	0.00008	PASS			
					10	-0.49	-0.00028	PASS			
					20	0.47	0.00027	PASS			
					30	0.26	0.00015	PASS			
					40	0.37	0.00021	PASS			
					50	0.41	0.00024	PASS			
			HCH	VN				-30	1.57	0.0009	PASS
								-20	0.74	0.00042	PASS
								-10	0.09	0.00005	PASS
								0	0.24	0.00014	PASS
								10	0.56	0.00032	PASS
								20	0.46	0.00026	PASS
								30	0.83	0.00047	PASS
								40	-0.11	-0.00006	PASS
								50	0.66	0.00038	PASS
	20	LCH	VN				-30	1.59	0.00092	PASS	
							-20	1.30	0.00076	PASS	
							-10	1.90	0.0011	PASS	
							0	2.56	0.00149	PASS	
							10	0.80	0.00047	PASS	
							20	0.76	0.00044	PASS	
							30	2.80	0.00163	PASS	
							40	1.69	0.00098	PASS	
							50	2.50	0.00145	PASS	
		MCH	VN					-30	1.30	0.00075	PASS
								-20	-0.29	-0.00017	PASS
								-10	-0.14	-0.00008	PASS
								0	0.82	0.00047	PASS
								10	0.34	0.0002	PASS
								20	0.53	0.00031	PASS
								30	-0.14	-0.00008	PASS
								40	1.40	0.00081	PASS
								50	-1.06	-0.00061	PASS
HCH	VN					-30	-1.97	-0.00113	PASS		
						-20	-2.55	-0.00146	PASS		
						-10	-1.69	-0.00097	PASS		
						0	-2.79	-0.0016	PASS		
						10	-3.30	-0.00189	PASS		
						20	-3.25	-0.00186	PASS		
						30	-2.56	-0.00147	PASS		
						40	-3.33	-0.00191	PASS		
						50	-2.60	-0.00149	PASS		

	LTE/TM2	1.4	LCH	VN	-30	1.85	0.00108	PASS
					-20	-0.30	-0.00018	PASS
					-10	2.86	0.00167	PASS
					0	2.17	0.00127	PASS
					10	-0.21	-0.00012	PASS
					20	2.53	0.00148	PASS
					30	2.73	0.0016	PASS
					40	3.98	0.00233	PASS
					50	-0.63	-0.00037	PASS
			MCH	VN	-30	2.45	0.00141	PASS
					-20	-0.44	-0.00025	PASS
					-10	0.63	0.00036	PASS
					0	0.14	0.00008	PASS
					10	0.11	0.00006	PASS
					20	4.02	0.00232	PASS
					30	2.10	0.00121	PASS
					40	-0.01	-0.00001	PASS
			HCH	VN	-30	-6.27	-0.00357	PASS
					-20	-2.46	-0.0014	PASS
					-10	-1.67	-0.00095	PASS
					0	-2.47	-0.00141	PASS
					10	-3.72	-0.00212	PASS
					20	-3.48	-0.00198	PASS
					30	-1.90	-0.00108	PASS
		40			-3.26	-0.00186	PASS	
		3	LCH	VN	-30	-0.60	-0.00035	PASS
					-20	-1.02	-0.0006	PASS
					-10	-1.43	-0.00084	PASS
					0	-0.39	-0.00023	PASS
					10	0.17	0.0001	PASS
					20	-1.27	-0.00074	PASS
			MCH	VN	30	0.37	0.00022	PASS
					40	-0.13	-0.00008	PASS
					50	-0.24	-0.00014	PASS
					-30	-3.29	-0.0019	PASS
					-20	-3.10	-0.00179	PASS
					-10	-1.69	-0.00098	PASS
					0	-1.47	-0.00085	PASS
					10	-2.06	-0.00119	PASS
					20	-0.13	-0.00008	PASS



					30	-0.86	-0.0005	PASS		
					40	-0.77	-0.00044	PASS		
					50	-2.33	-0.00134	PASS		
					HCH	VN	-30	1.65	0.00094	PASS
							-20	0.11	0.00006	PASS
							-10	0.57	0.00033	PASS
			0	1.32			0.00075	PASS		
			10	1.42			0.00081	PASS		
			20	0.69			0.00039	PASS		
			30	-0.64	-0.00036	PASS				
			40	0.72	0.00041	PASS				
			50	1.06	0.0006	PASS				
		5	LCH	VN	-30	2.05	0.0012	PASS		
					-20	2.13	0.00124	PASS		
					-10	2.46	0.00144	PASS		
					0	1.46	0.00085	PASS		
					10	1.46	0.00085	PASS		
					20	1.47	0.00086	PASS		
					30	1.10	0.00064	PASS		
					40	1.83	0.00107	PASS		
					50	0.87	0.00051	PASS		
			MCH	VN	-30	2.13	0.00123	PASS		
					-20	0.06	0.00003	PASS		
					-10	1.65	0.00095	PASS		
					0	1.53	0.00088	PASS		
					10	2.56	0.00148	PASS		
					20	2.62	0.00151	PASS		
					30	2.70	0.00156	PASS		
					40	2.29	0.00132	PASS		
					50	-0.03	-0.00002	PASS		
		HCH	VN	-30	-2.73	-0.00156	PASS			
				-20	-3.00	-0.00171	PASS			
				-10	-3.81	-0.00217	PASS			
				0	-3.23	-0.00184	PASS			
				10	-2.60	-0.00148	PASS			
				20	-2.99	-0.00171	PASS			
				30	-2.99	-0.00171	PASS			
				40	-4.06	-0.00232	PASS			
				50	-2.62	-0.0015	PASS			
		10	LCH	VN	-30	-2.06	-0.0012	PASS		
					-20	-3.15	-0.00184	PASS		
					-10	-2.93	-0.00171	PASS		



					0	-1.99	-0.00116	PASS	
					10	-2.19	-0.00128	PASS	
					20	-2.85	-0.00166	PASS	
					30	-3.50	-0.00204	PASS	
					40	-3.83	-0.00223	PASS	
					50	-2.83	-0.00165	PASS	
			MCH	VN	-30	-0.93	-0.00054	PASS	
					-20	-0.07	-0.00004	PASS	
					-10	0.36	0.00021	PASS	
					0	-1.44	-0.00083	PASS	
					10	-1.03	-0.00059	PASS	
					20	-0.16	-0.00009	PASS	
					30	-0.57	-0.00033	PASS	
					40	-0.84	-0.00048	PASS	
			HCH	VN	50	-1.27	-0.00073	PASS	
					-30	1.20	0.00069	PASS	
					-20	0.93	0.00053	PASS	
					-10	2.23	0.00127	PASS	
					0	2.88	0.00165	PASS	
					10	1.43	0.00082	PASS	
					20	2.26	0.00129	PASS	
					30	2.72	0.00155	PASS	
			15	LCH	VN	40	0.50	0.00029	PASS
						50	1.29	0.00074	PASS
						-30	0.11	0.00006	PASS
						-20	-0.43	-0.00025	PASS
						-10	0.31	0.00018	PASS
						0	-0.63	-0.00037	PASS
						10	-0.26	-0.00015	PASS
						20	0.44	0.00026	PASS
						30	0.11	0.00006	PASS
						40	0.21	0.00012	PASS
			MCH	VN	50	0.99	0.00058	PASS	
					-30	0.94	0.00054	PASS	
					-20	-0.34	-0.0002	PASS	
					-10	0.27	0.00016	PASS	
					0	-0.20	-0.00012	PASS	
					10	-0.46	-0.00027	PASS	
					20	0.82	0.00047	PASS	
					30	0.33	0.00019	PASS	
40	0.54	0.00031	PASS						
50	0.69	0.0004	PASS						

			HCH	VN	-30	-0.74	-0.00042	PASS	
					-20	0.19	0.00011	PASS	
					-10	0.54	0.00031	PASS	
					0	0.04	0.00002	PASS	
					10	-0.70	-0.0004	PASS	
					20	-0.16	-0.00009	PASS	
					30	0.23	0.00013	PASS	
					40	0.60	0.00034	PASS	
					50	-0.99	-0.00057	PASS	
			20	LCH	VN	-30	0.39	0.00023	PASS
						-20	-0.10	-0.00006	PASS
						-10	1.47	0.00085	PASS
						0	0.49	0.00028	PASS
						10	1.75	0.00102	PASS
						20	2.79	0.00162	PASS
						30	1.89	0.0011	PASS
		40				2.07	0.0012	PASS	
		50				2.93	0.0017	PASS	
		MCH		VN	-30	0.60	0.00035	PASS	
					-20	0.49	0.00028	PASS	
					-10	0.49	0.00028	PASS	
					0	0.51	0.00029	PASS	
					10	0.01	0.00001	PASS	
					20	0.72	0.00042	PASS	
					30	0.01	0.00001	PASS	
			40		-0.30	-0.00017	PASS		
			50		-0.47	-0.00027	PASS		
		HCH	VN	-30	-3.03	-0.00174	PASS		
				-20	-1.79	-0.00103	PASS		
				-10	-1.66	-0.00095	PASS		
				0	-3.05	-0.00175	PASS		
				10	-2.99	-0.00171	PASS		
				20	-2.00	-0.00115	PASS		
				30	-2.35	-0.00135	PASS		
				40	-3.26	-0.00187	PASS		
				50	-2.22	-0.00127	PASS		

END