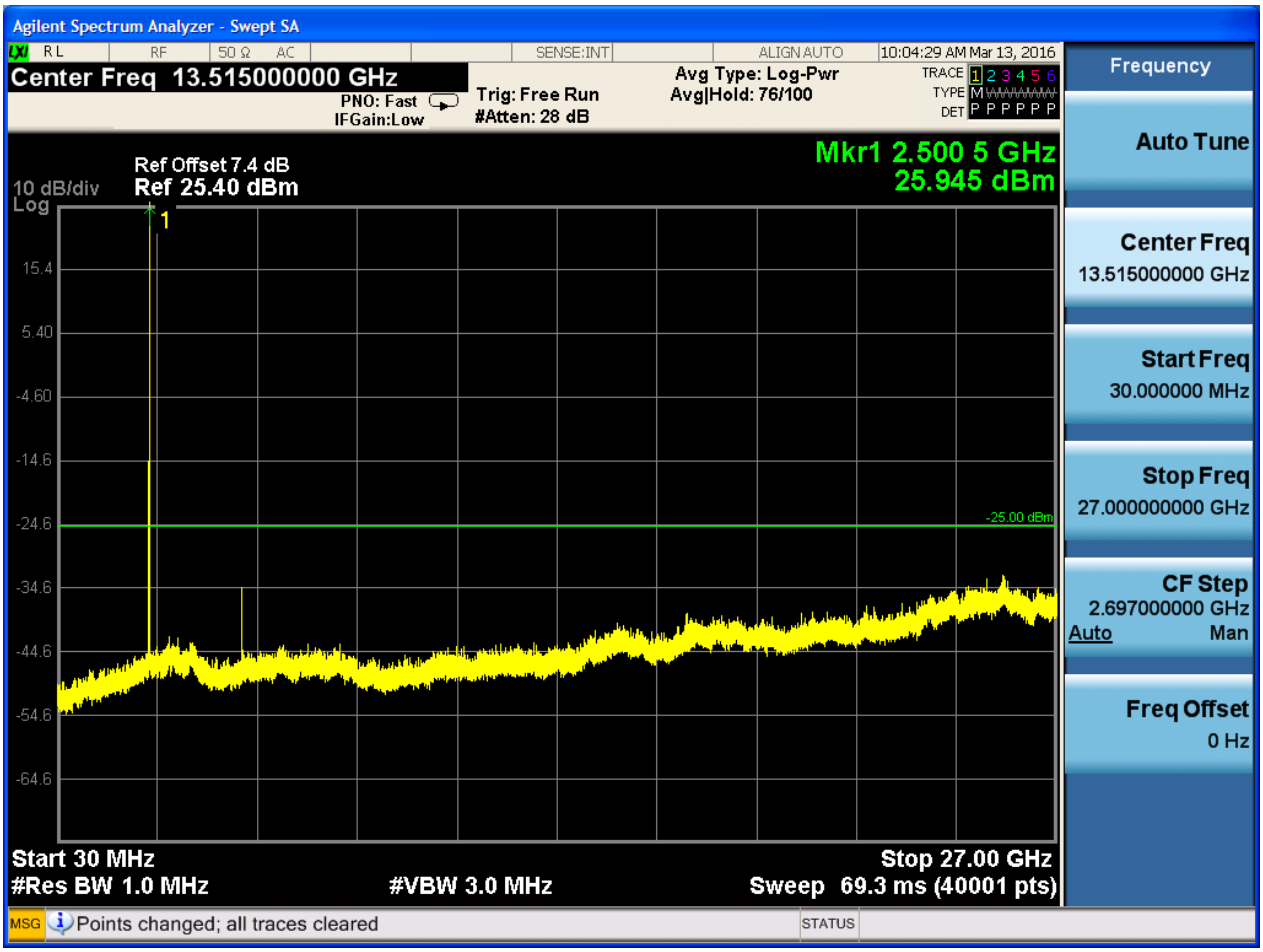

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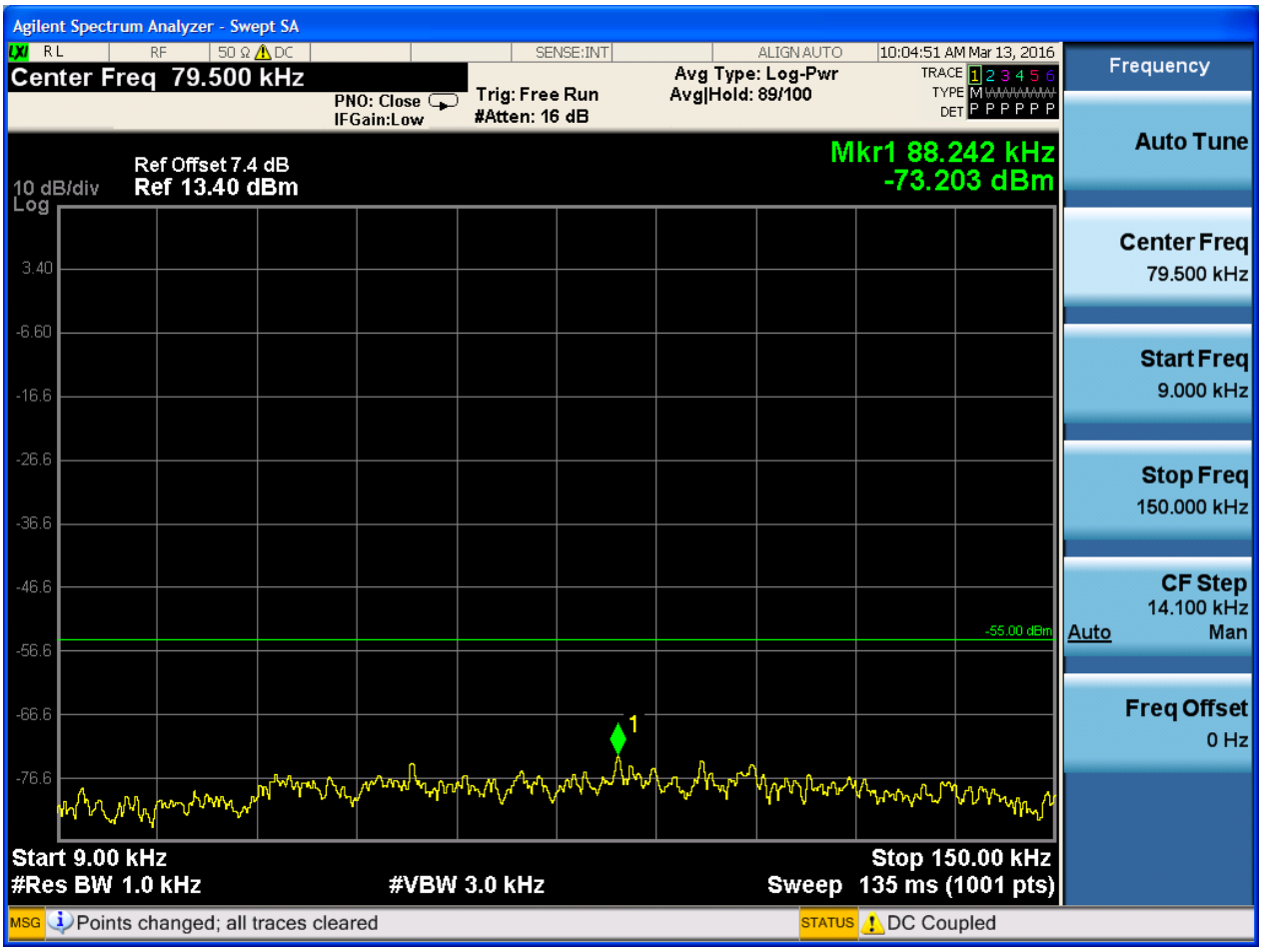
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



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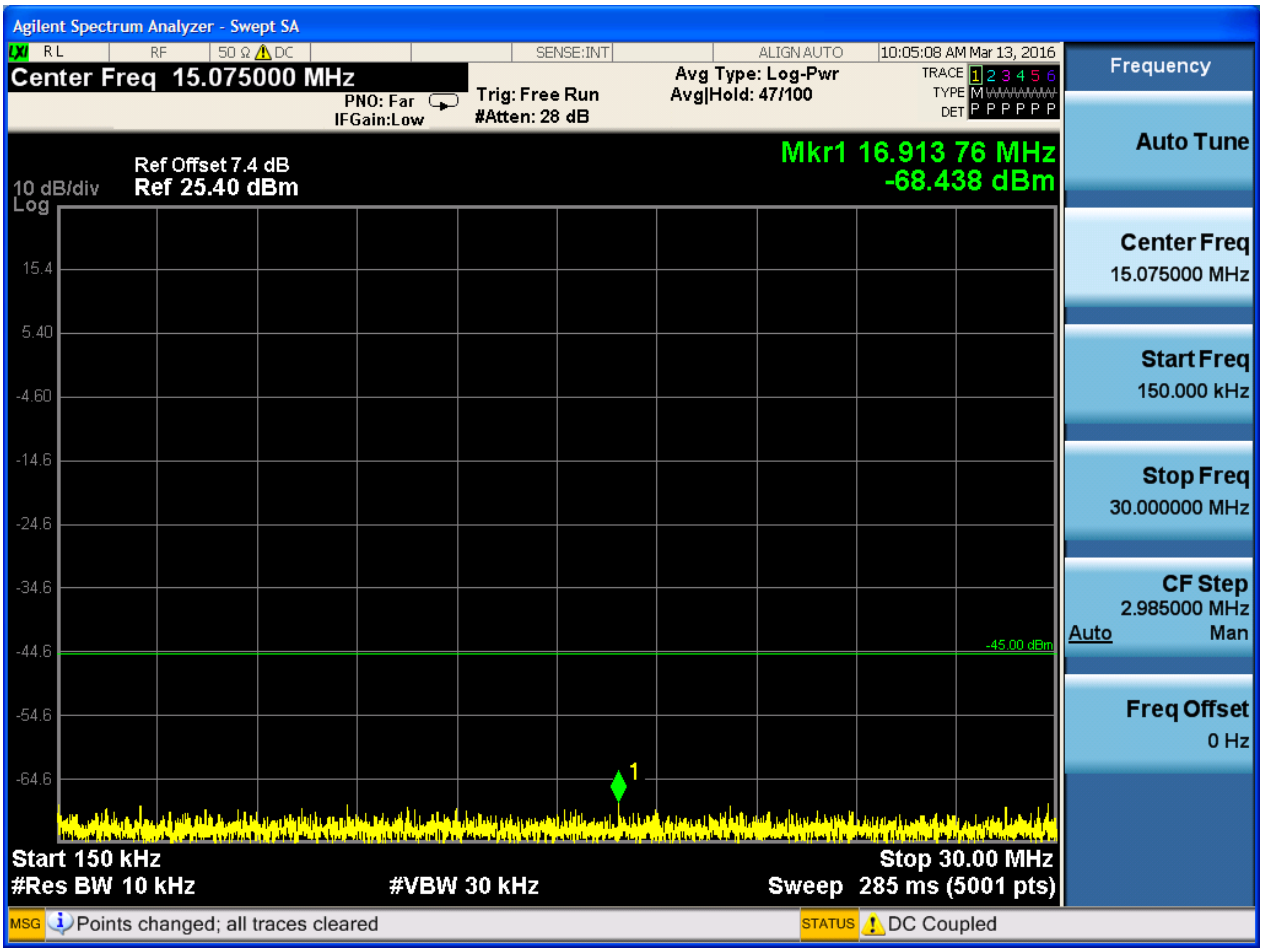

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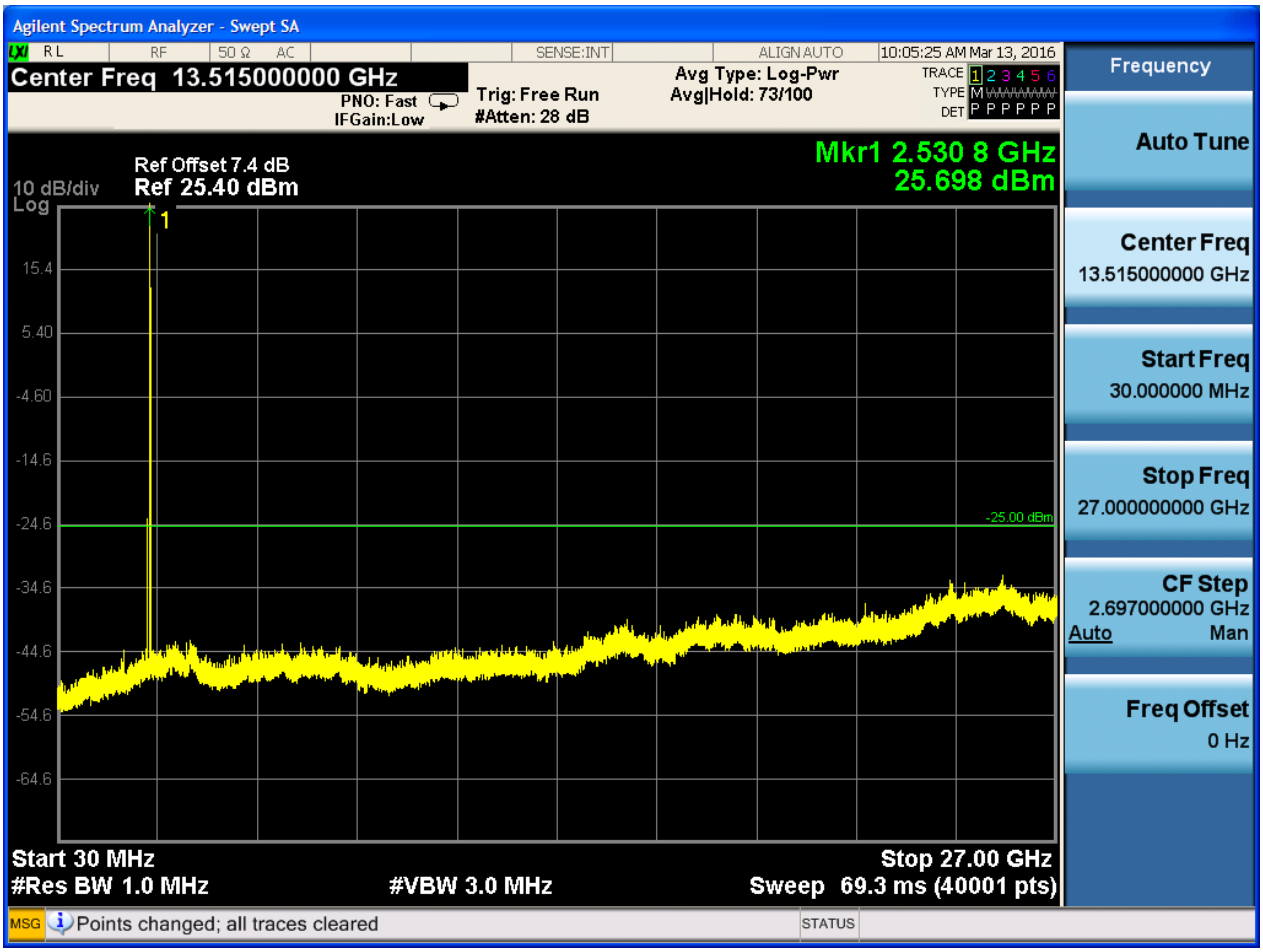

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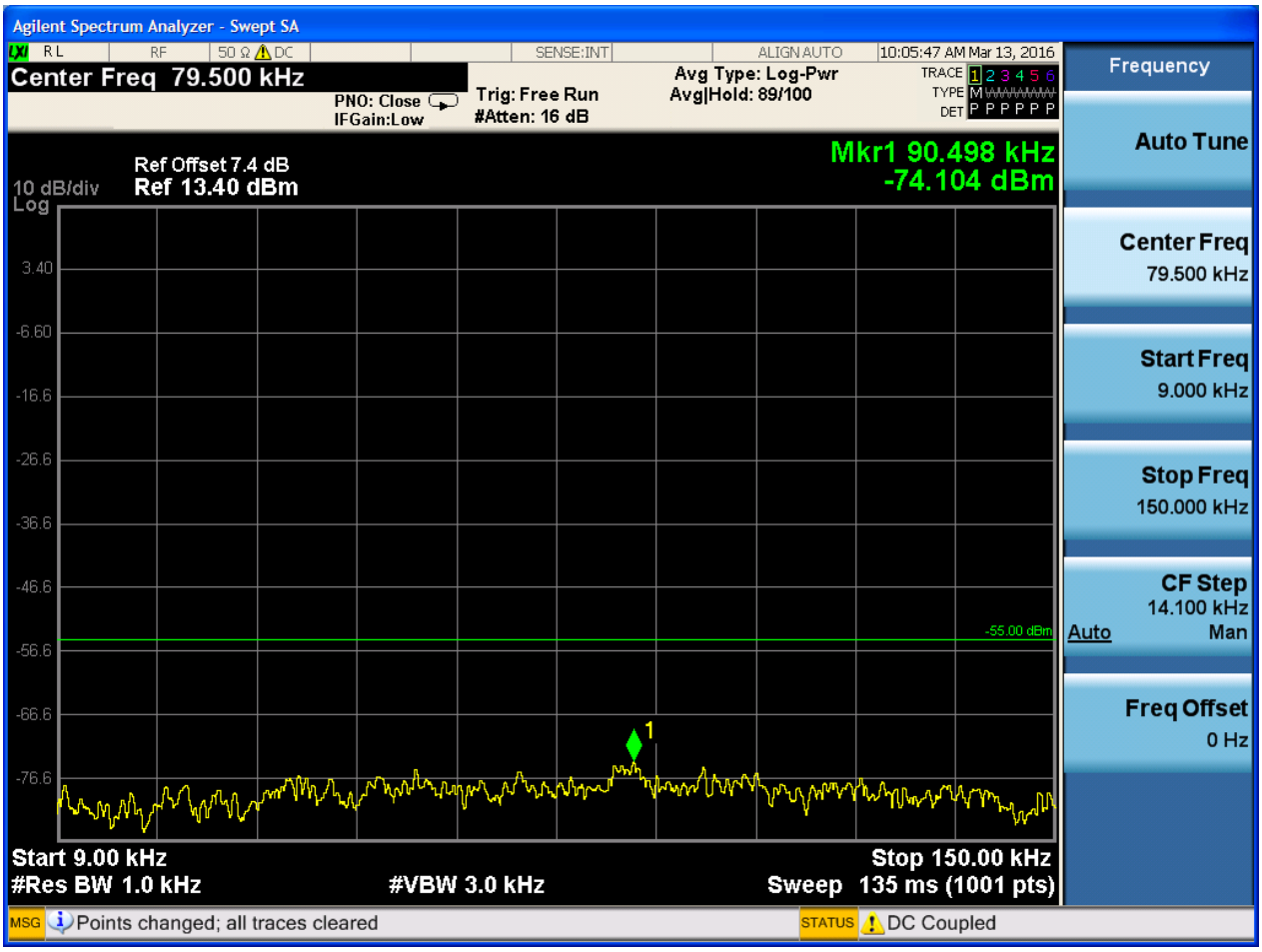
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



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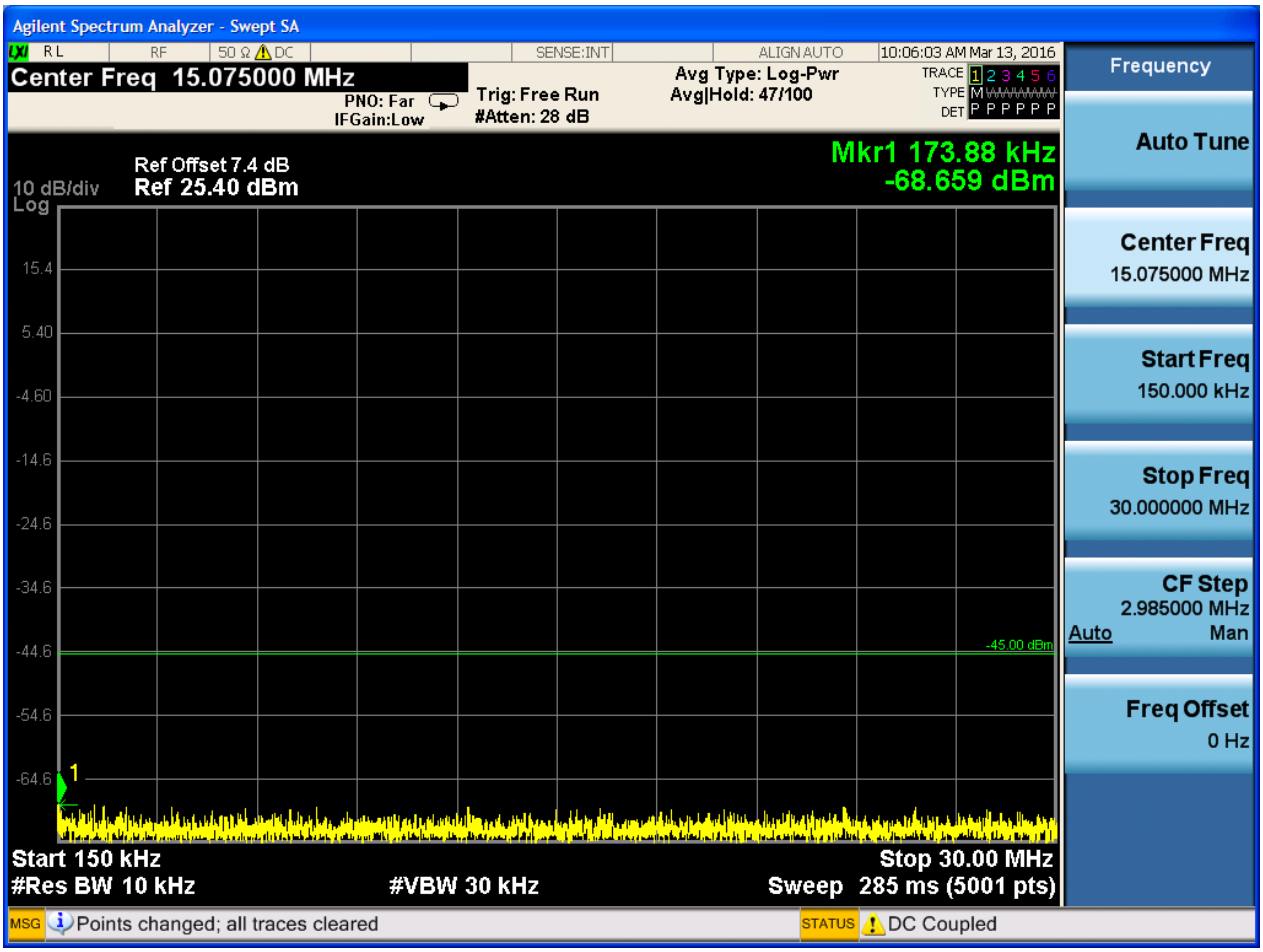

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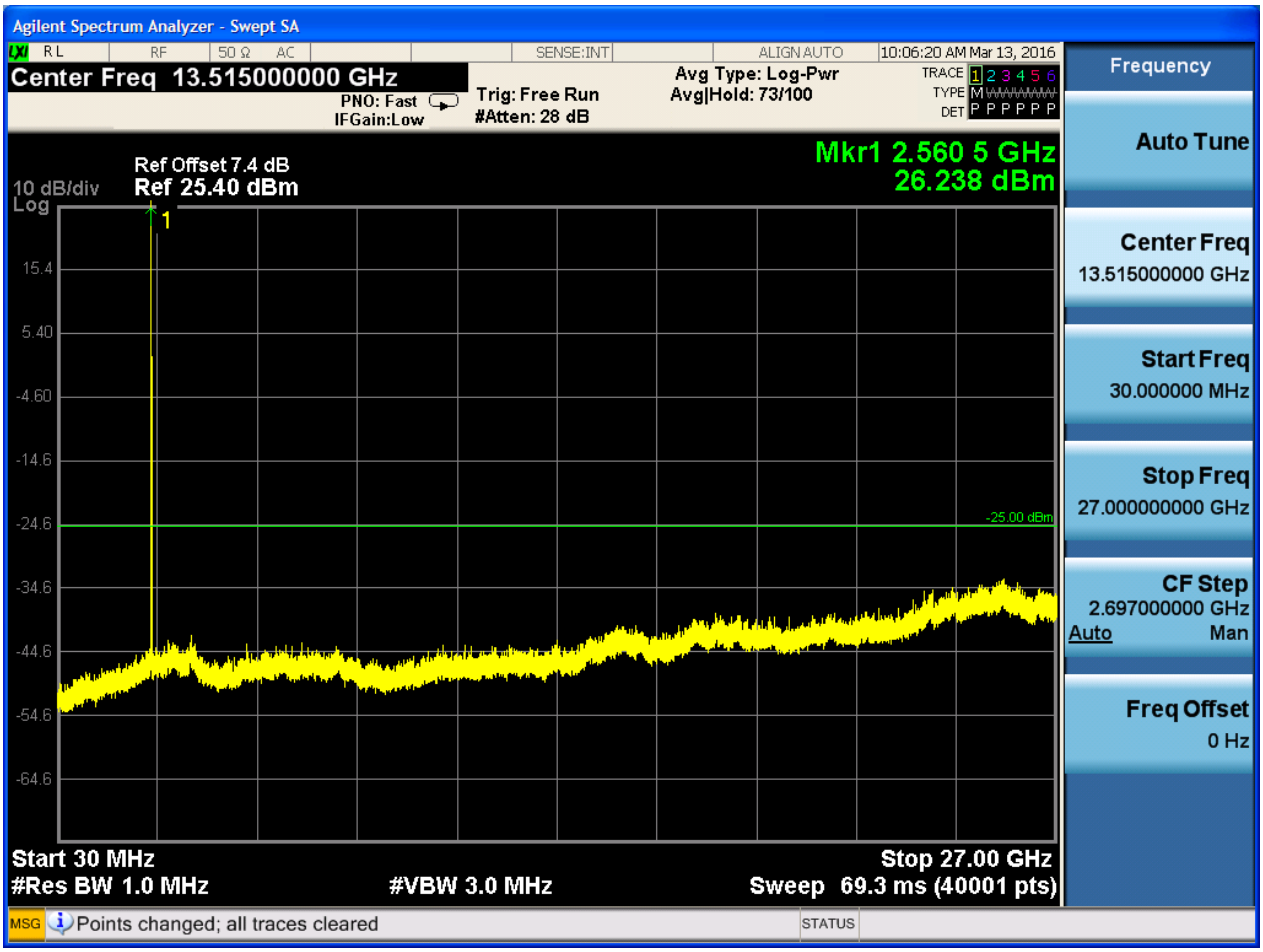

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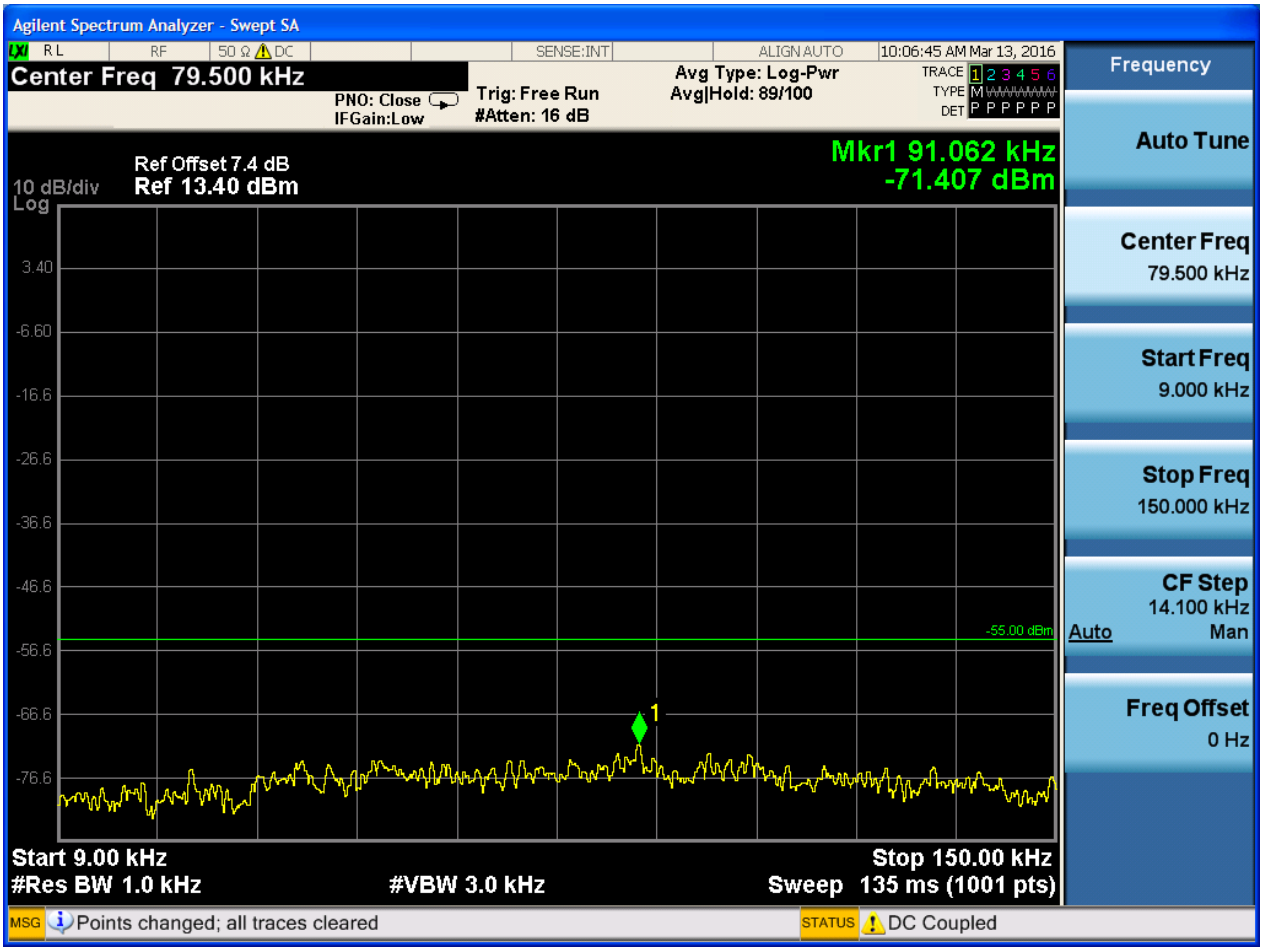
6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



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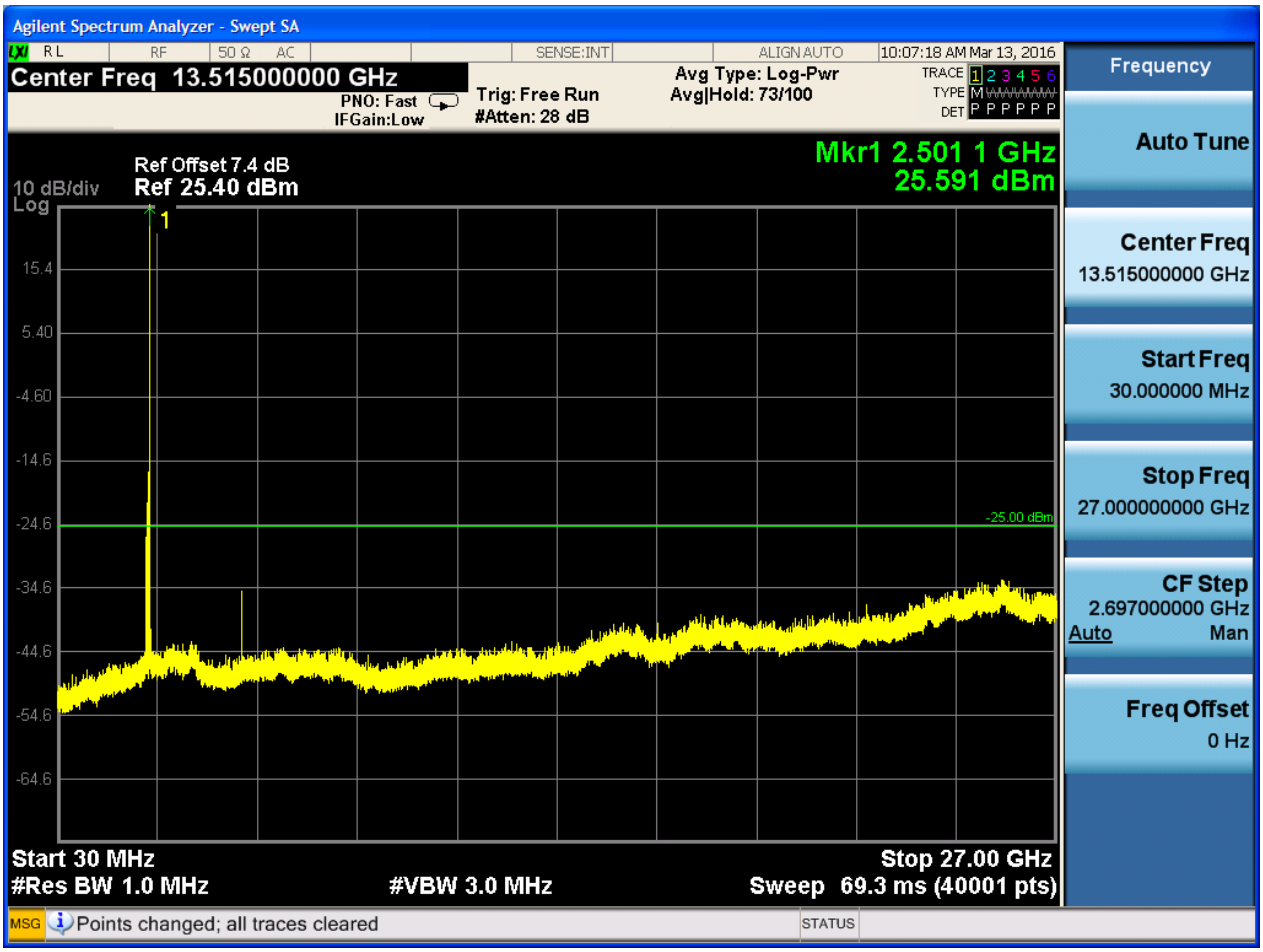

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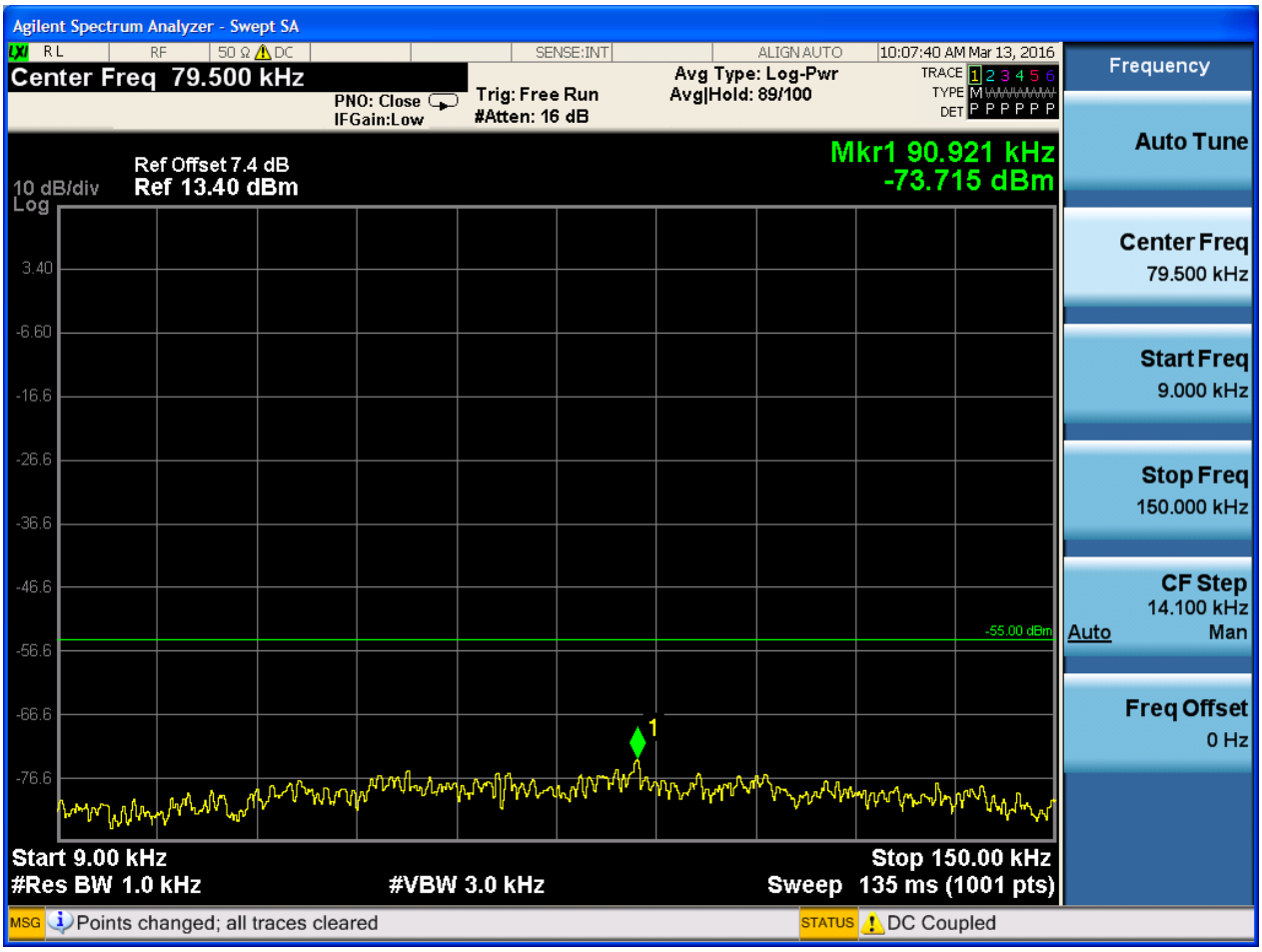
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



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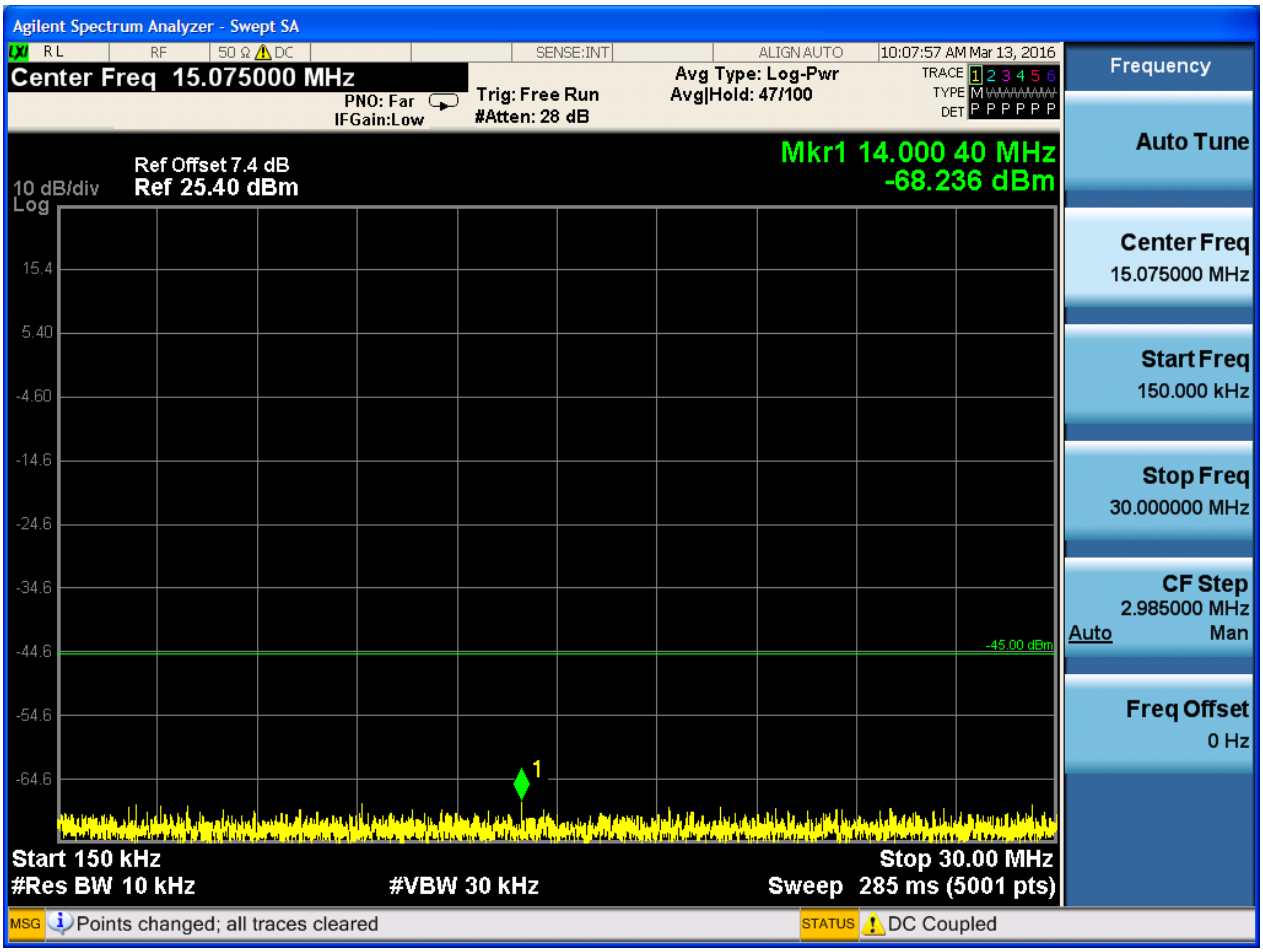

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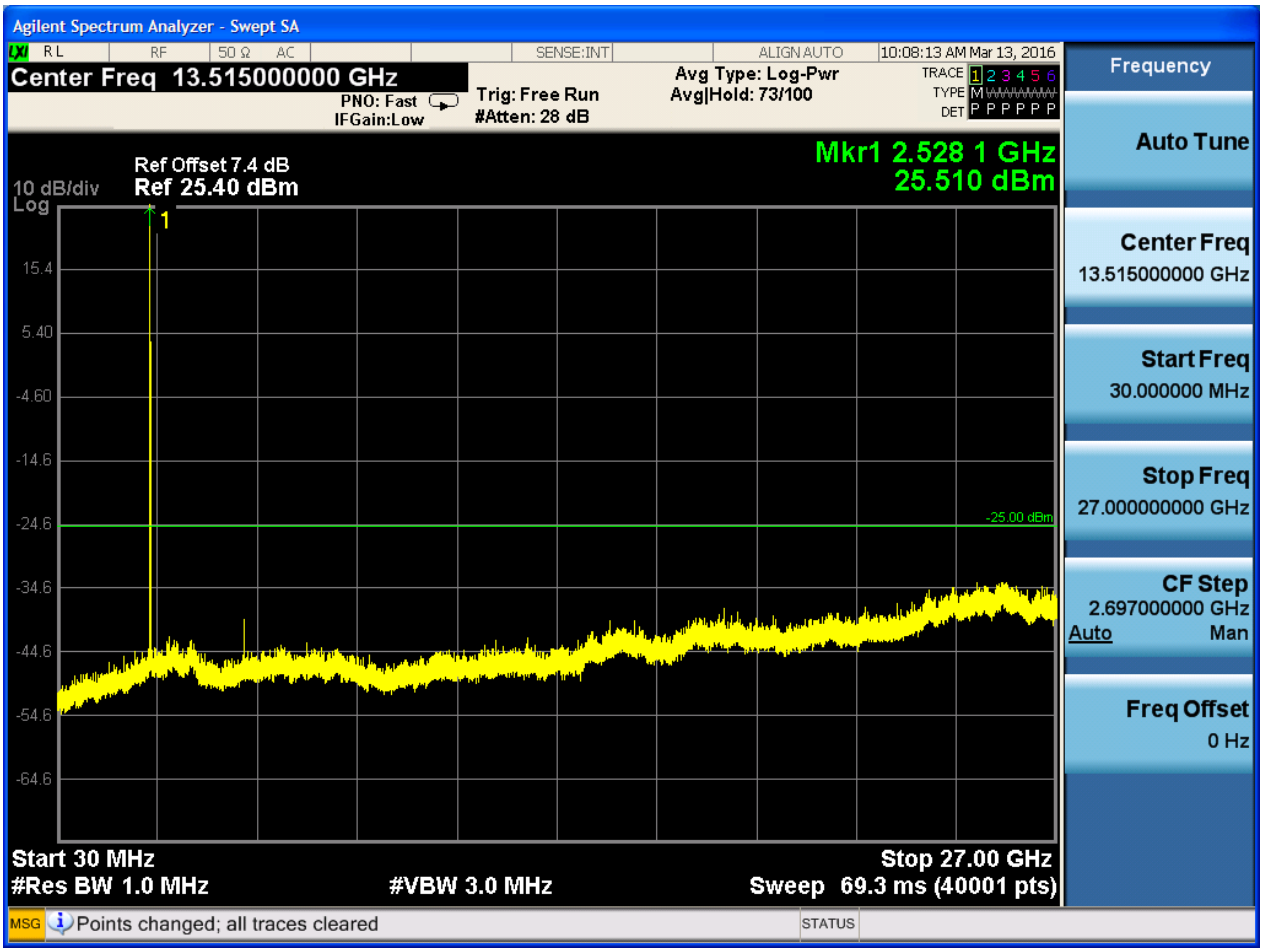

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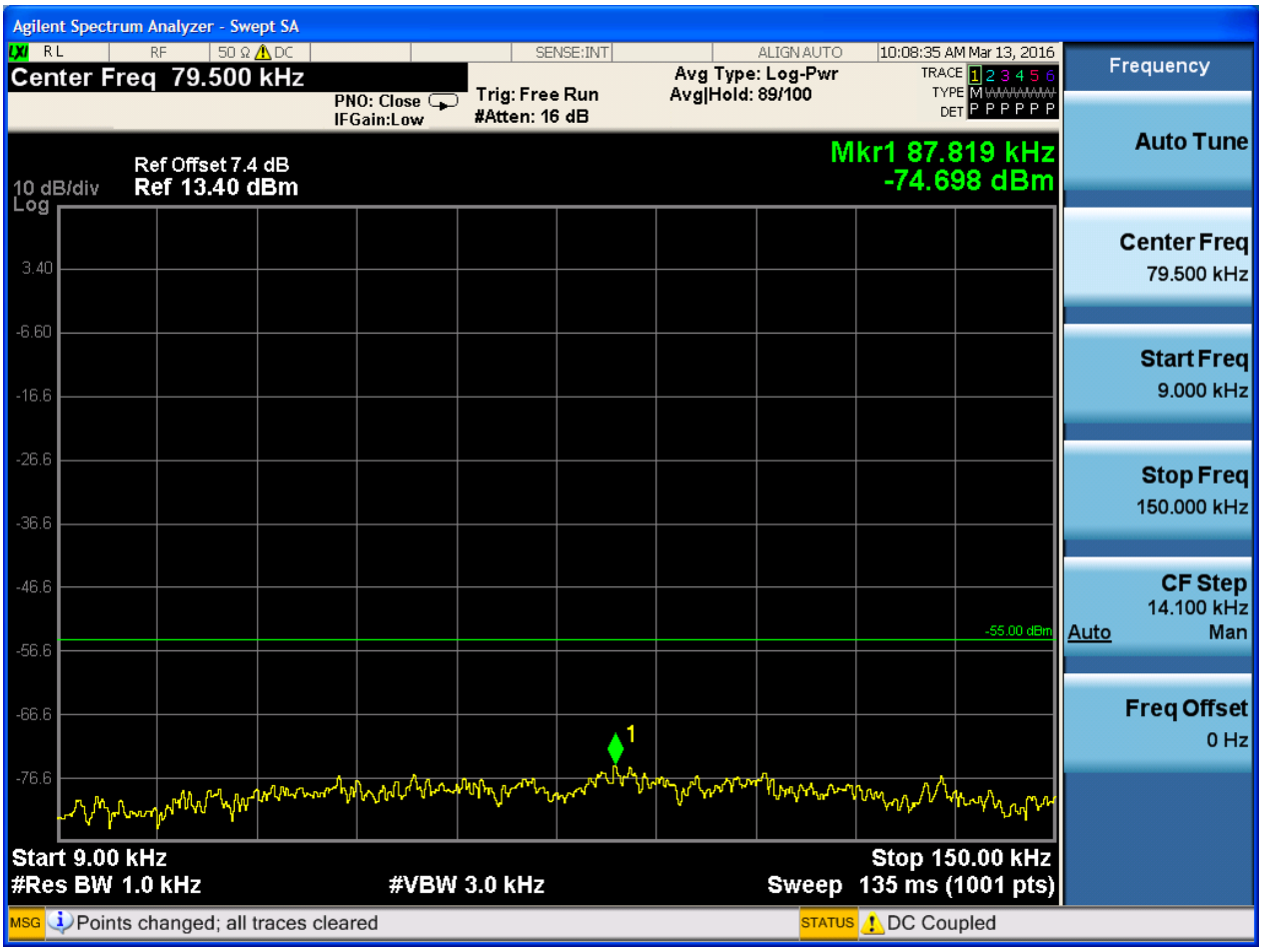
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



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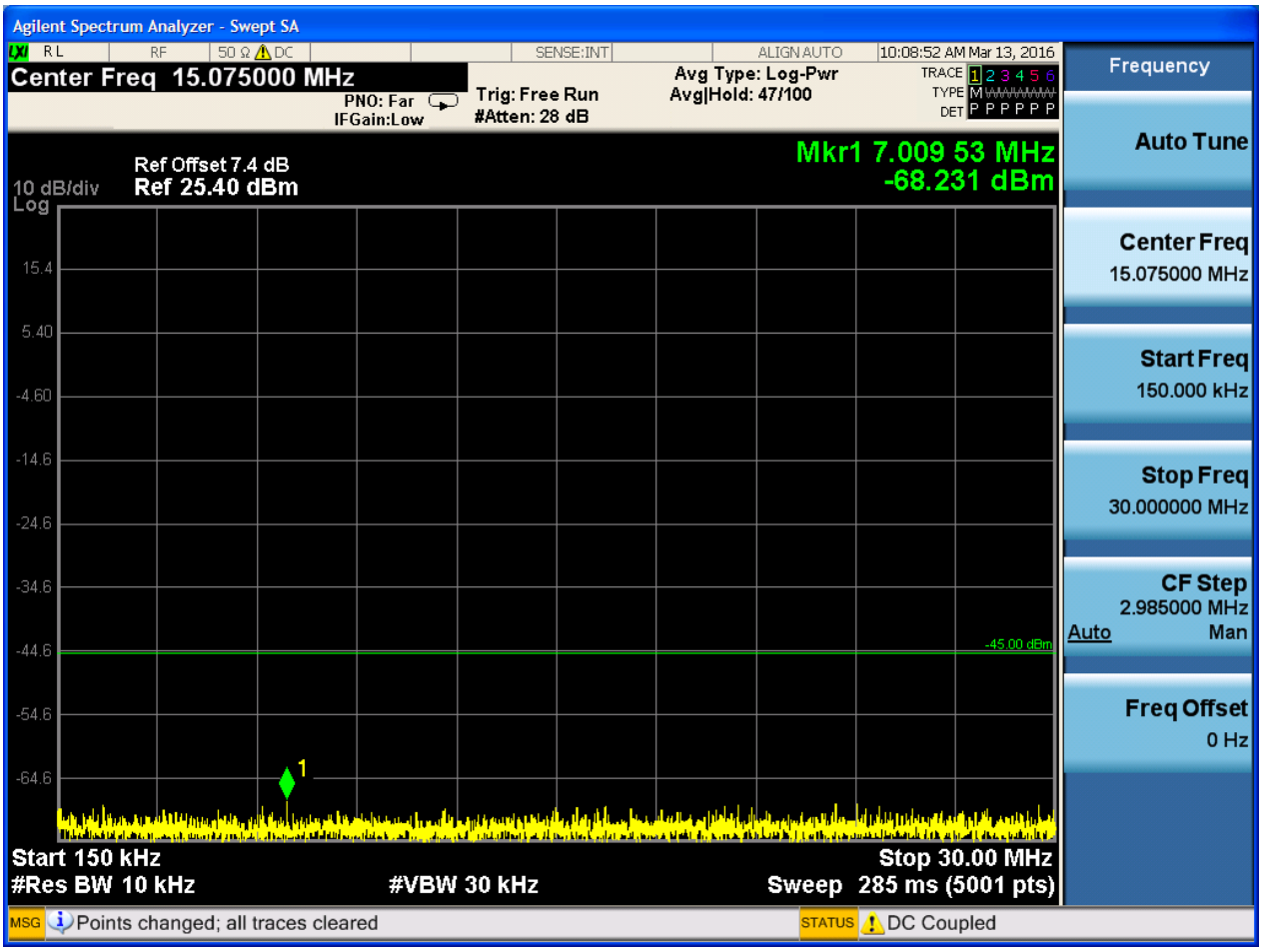

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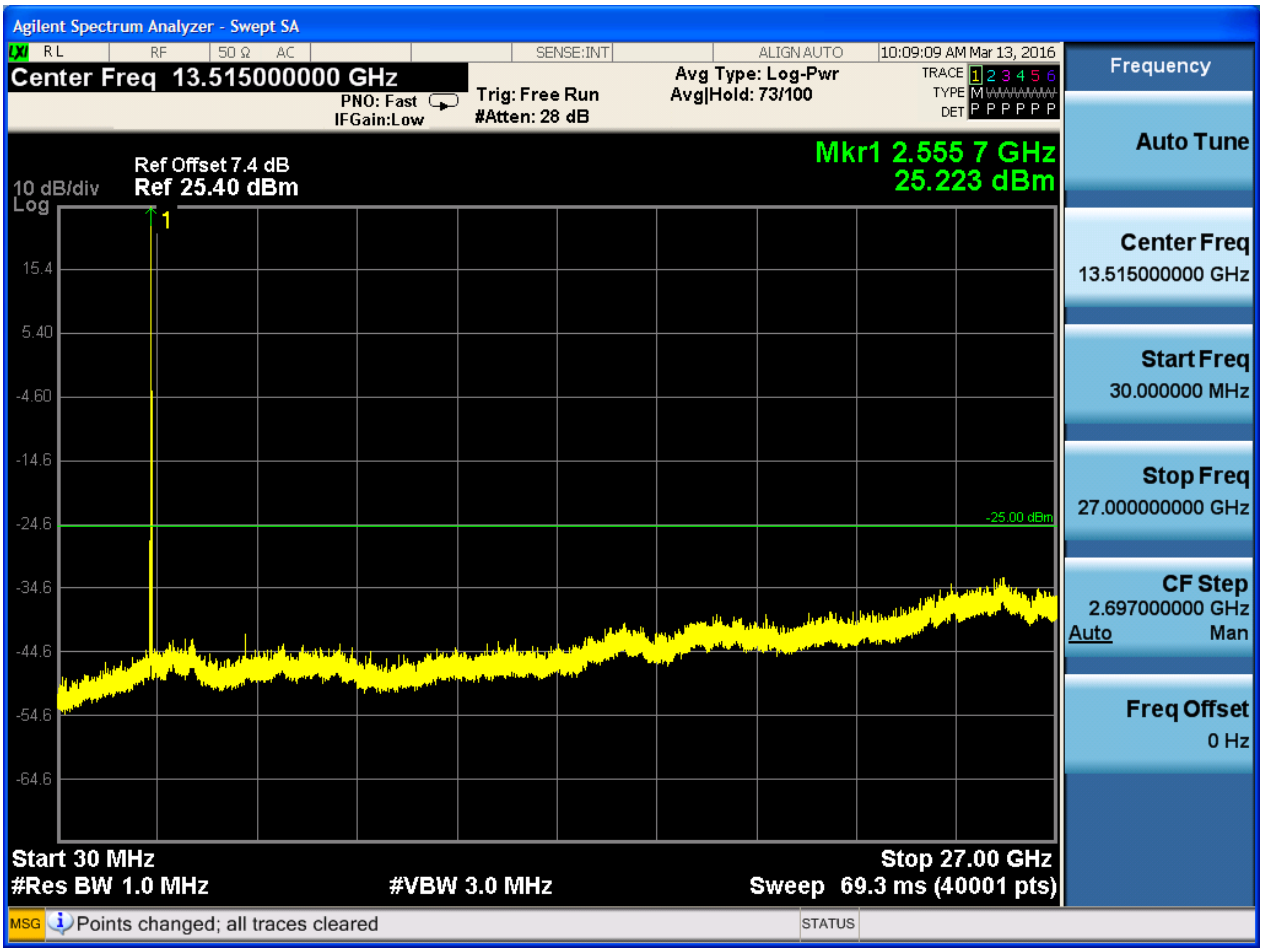

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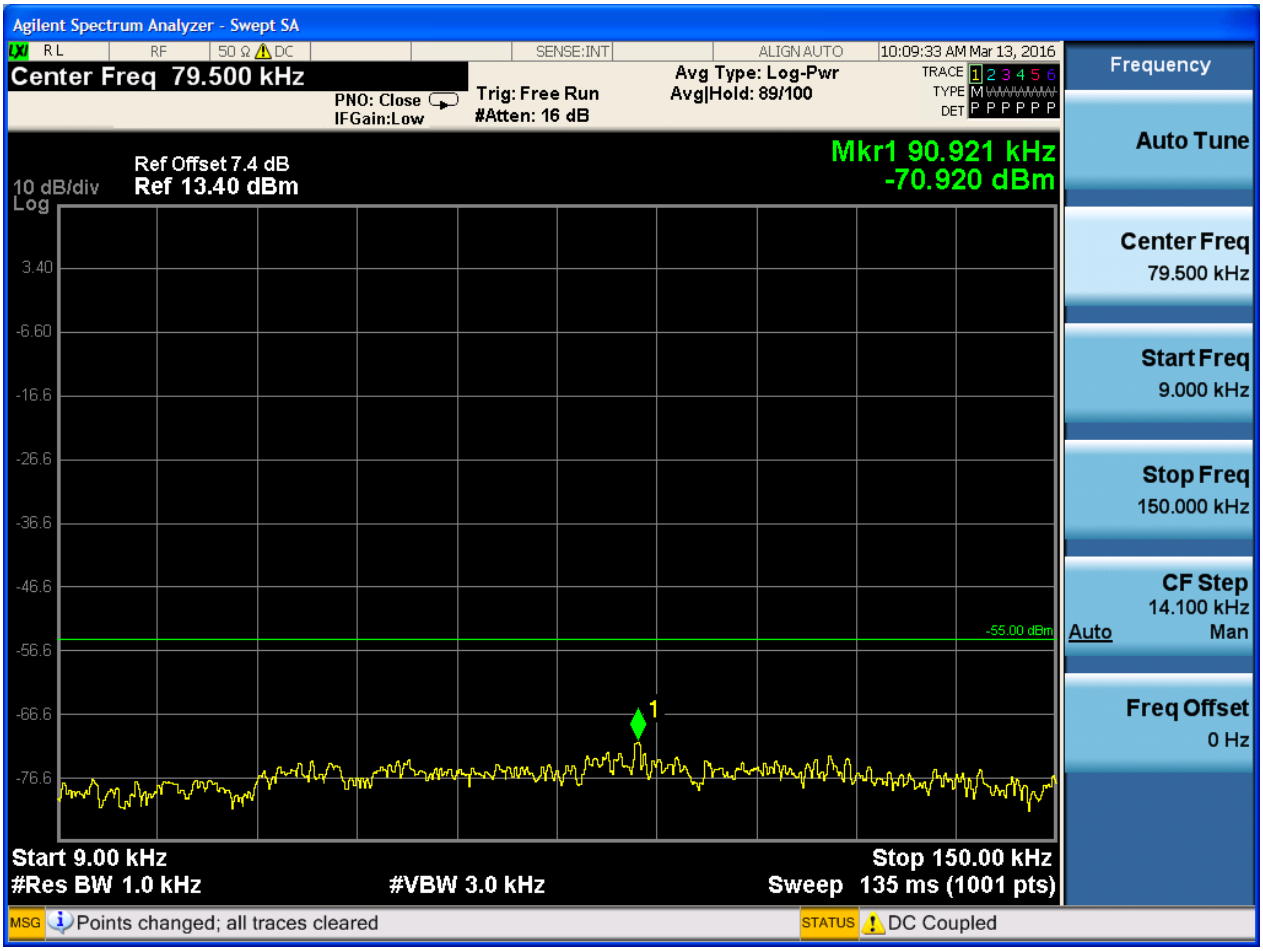
6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



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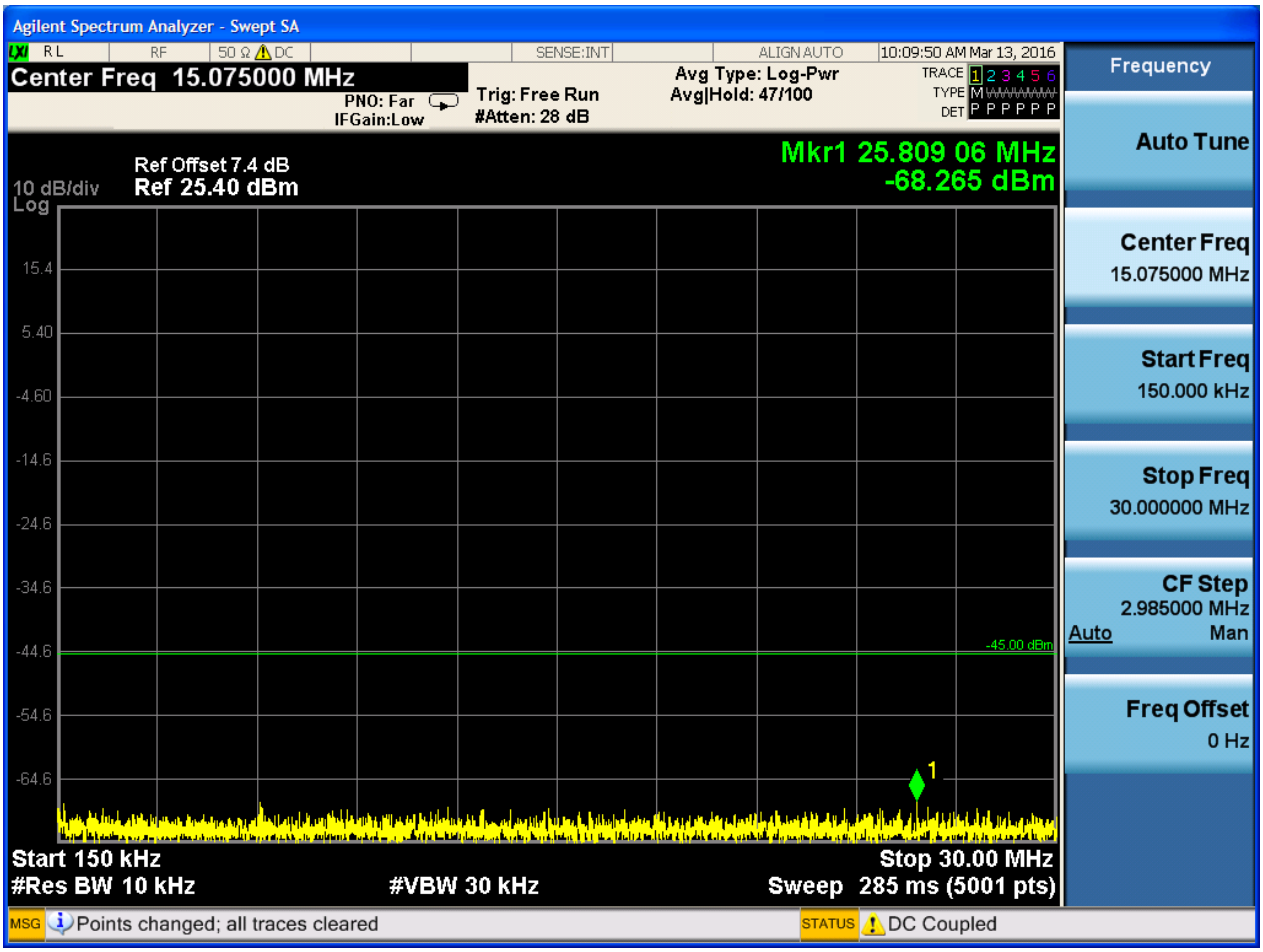

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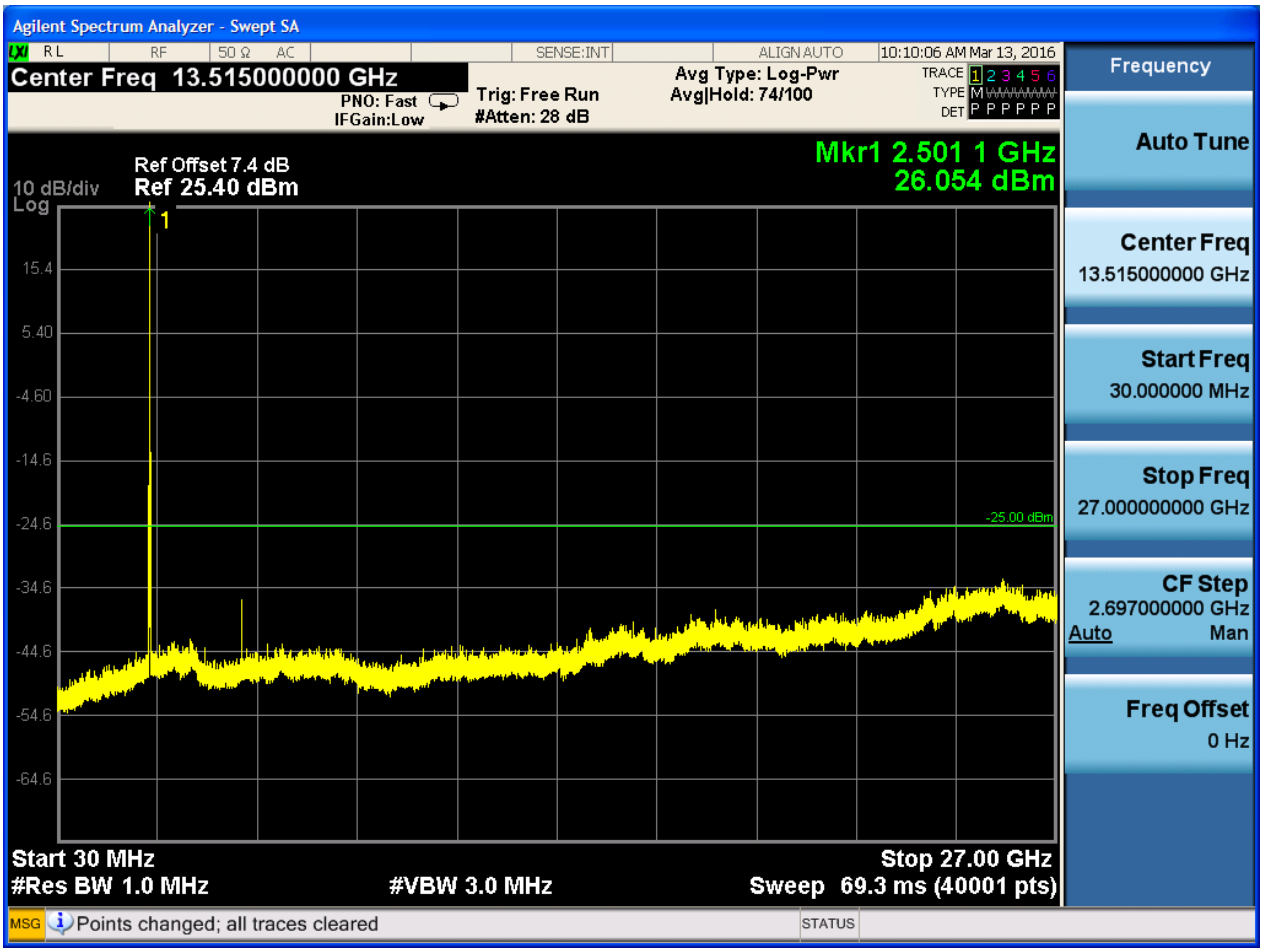

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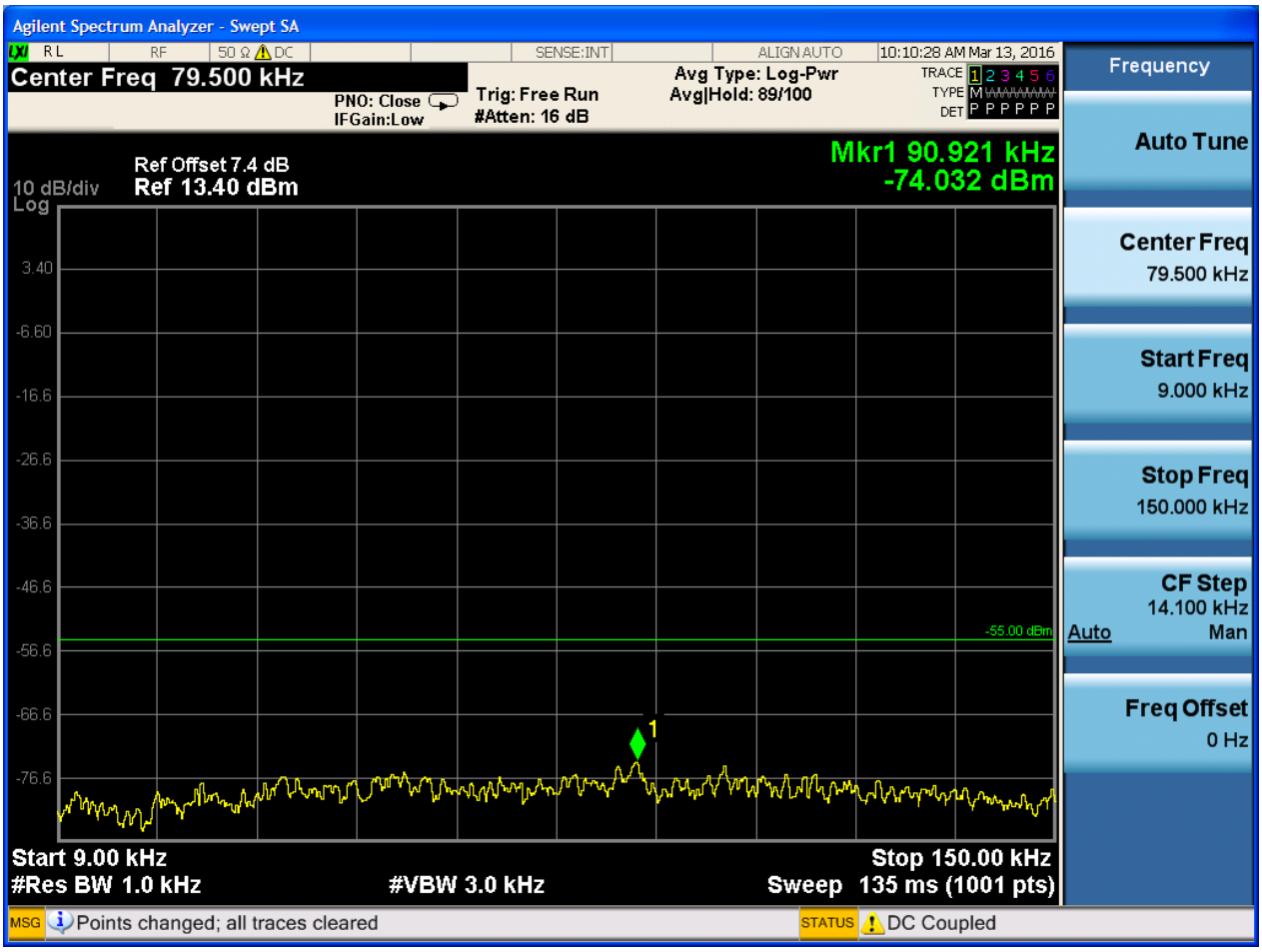
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



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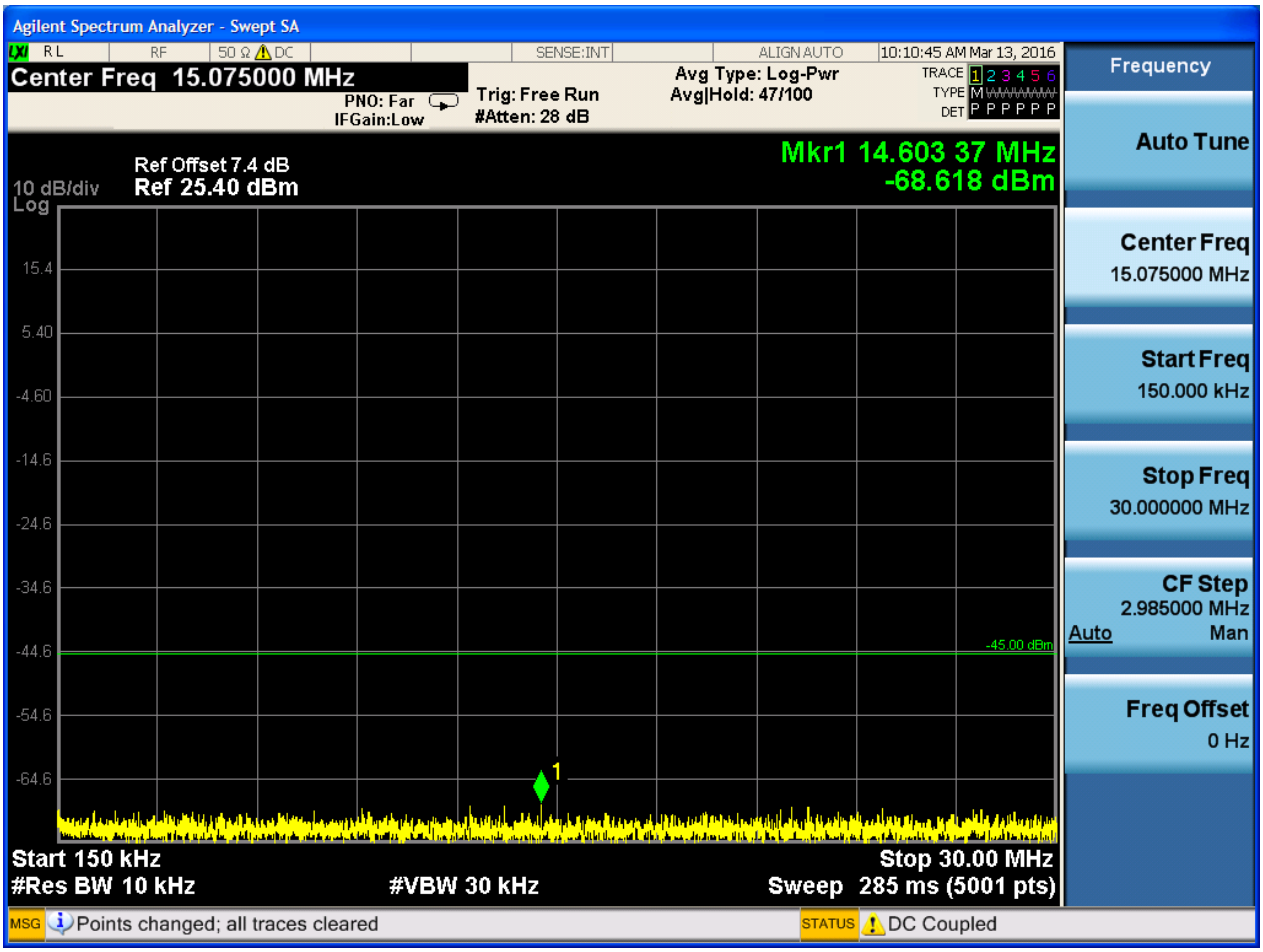

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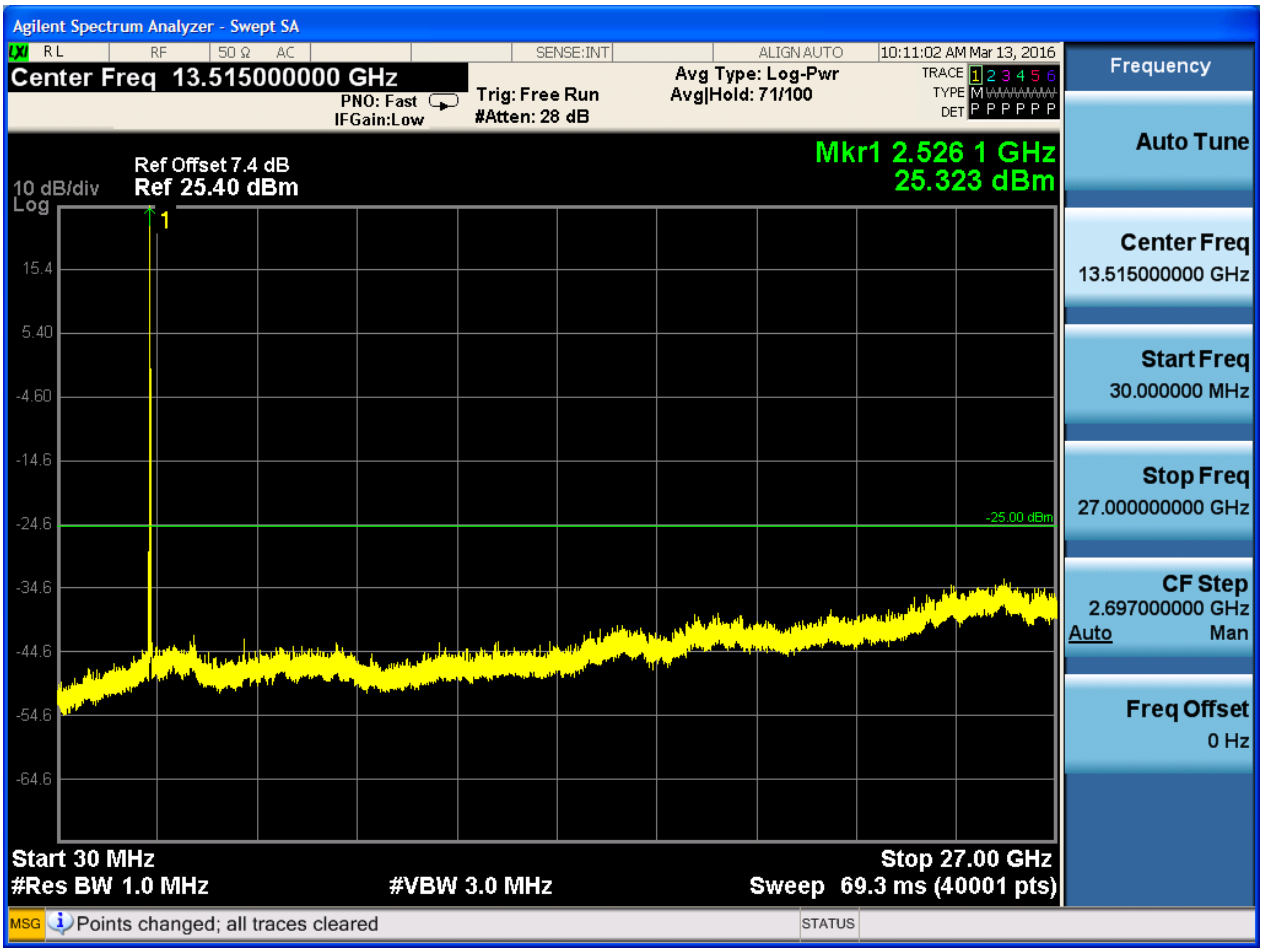

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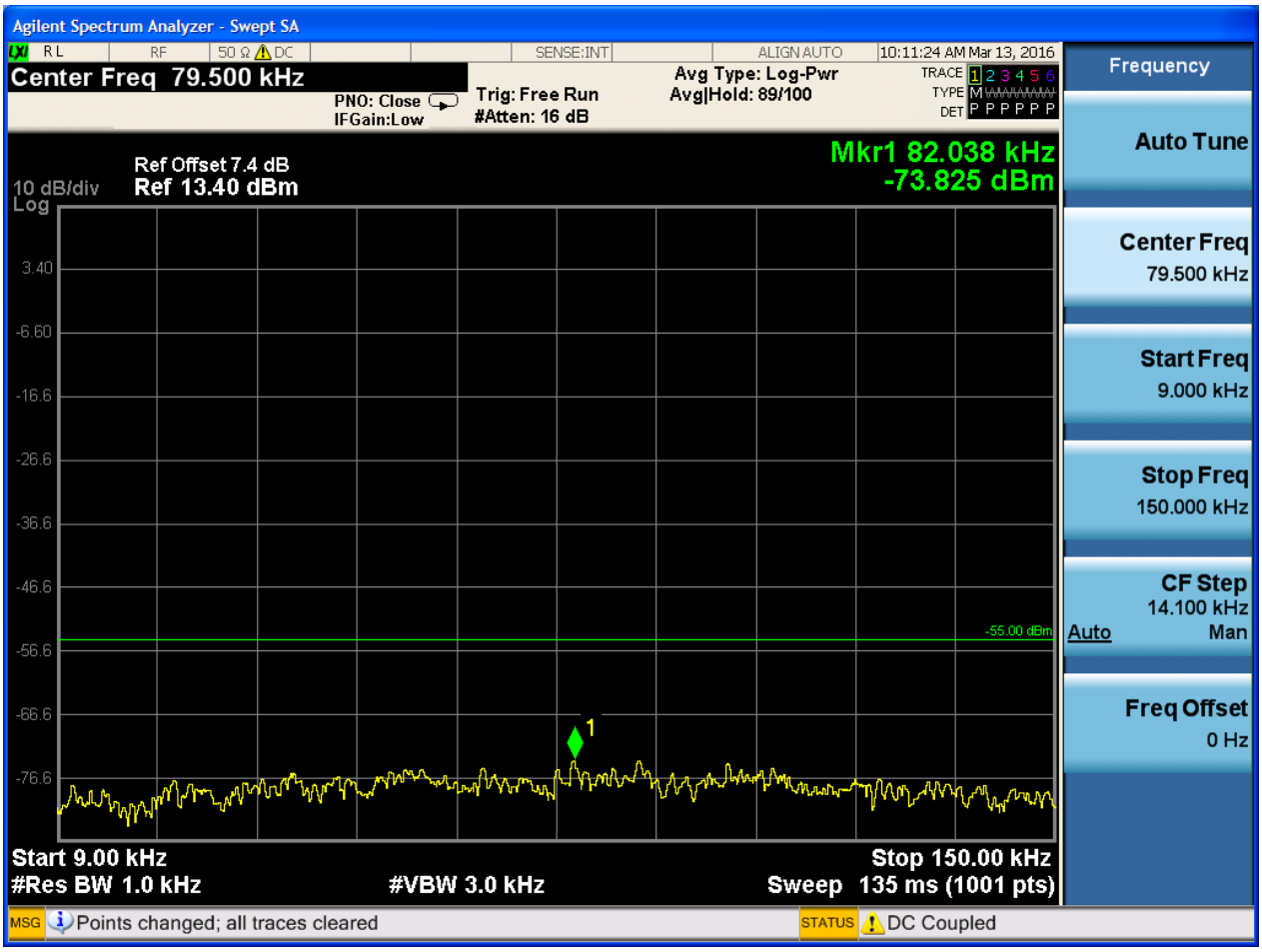
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0



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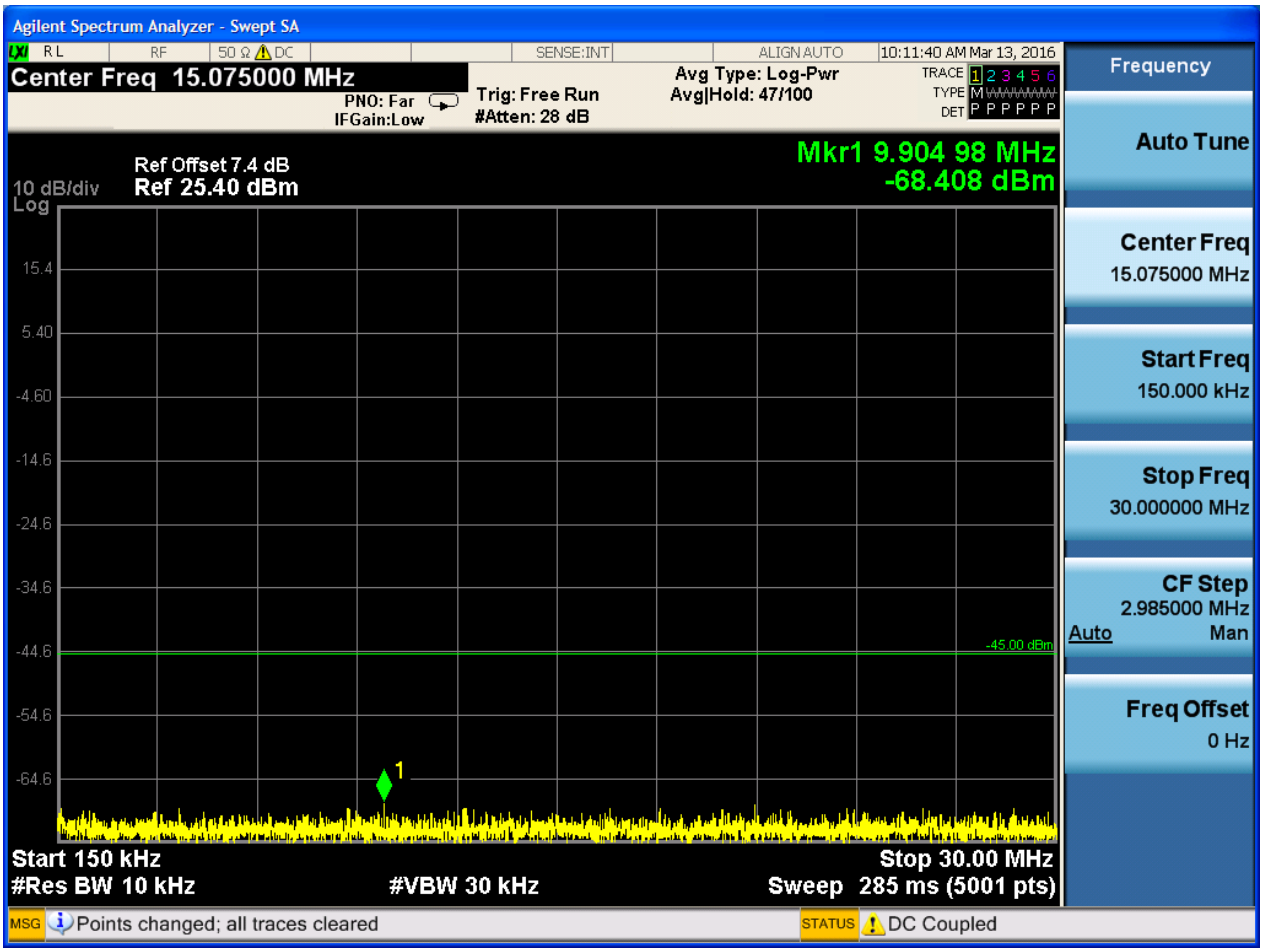

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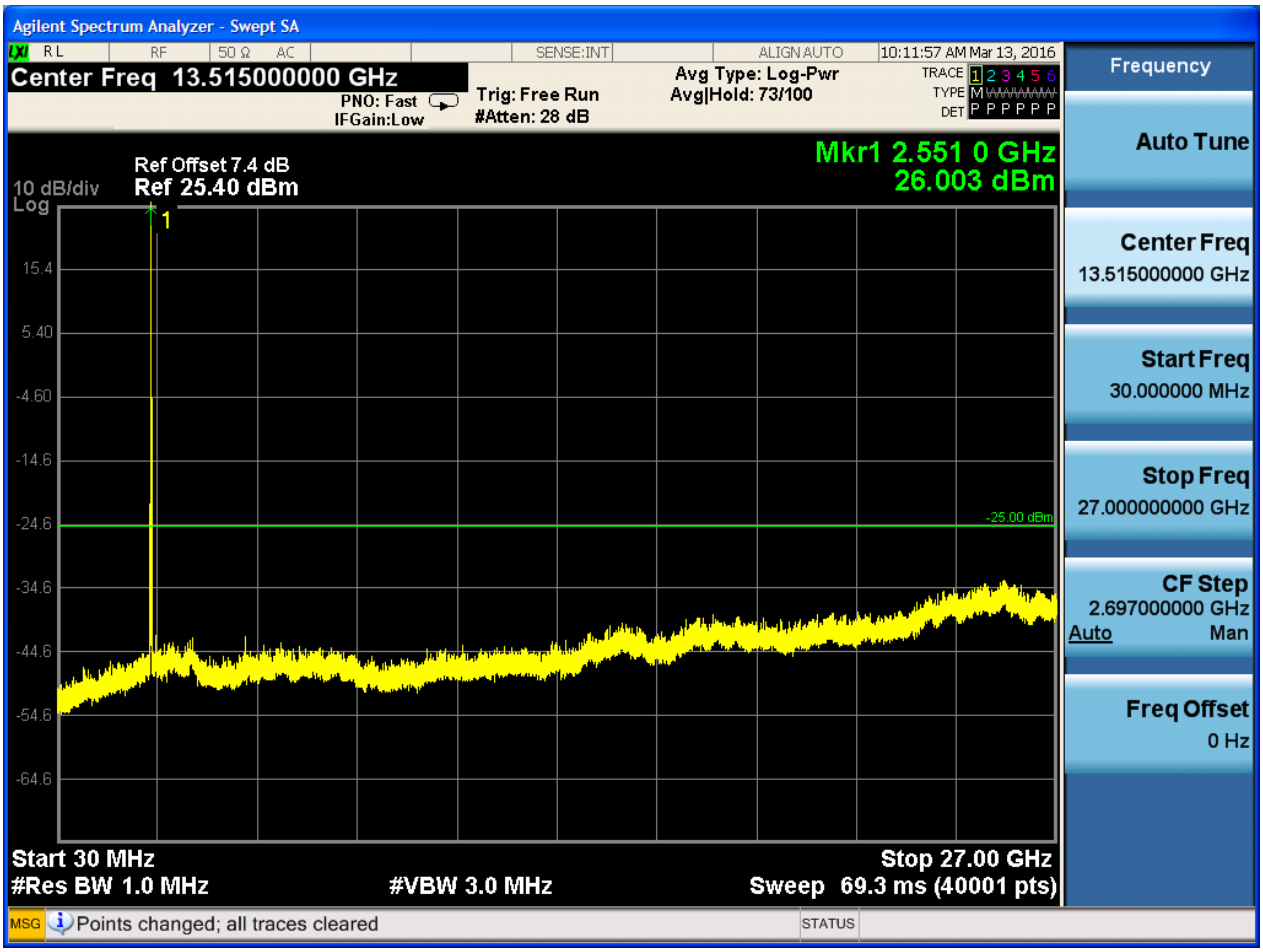

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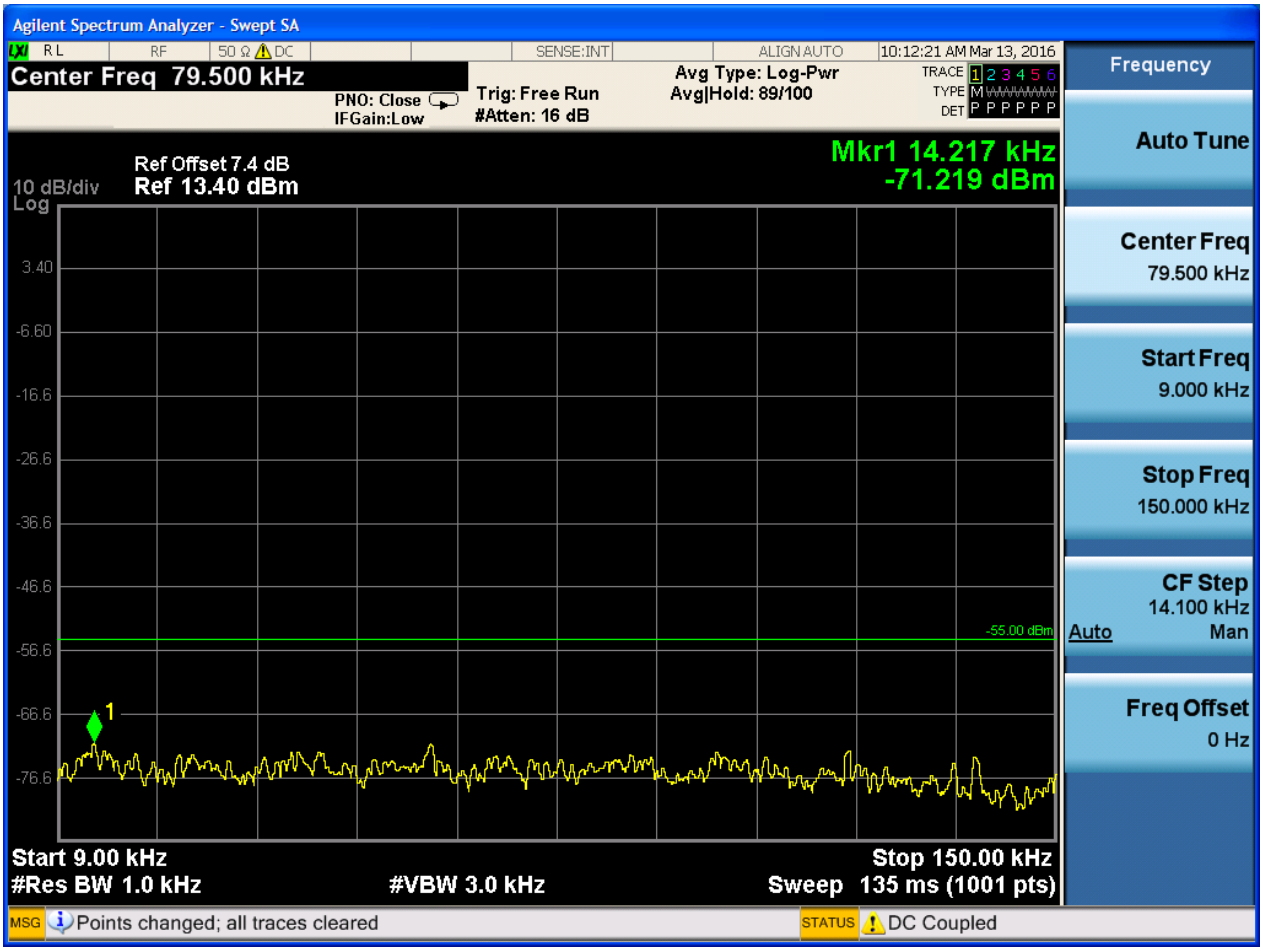
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



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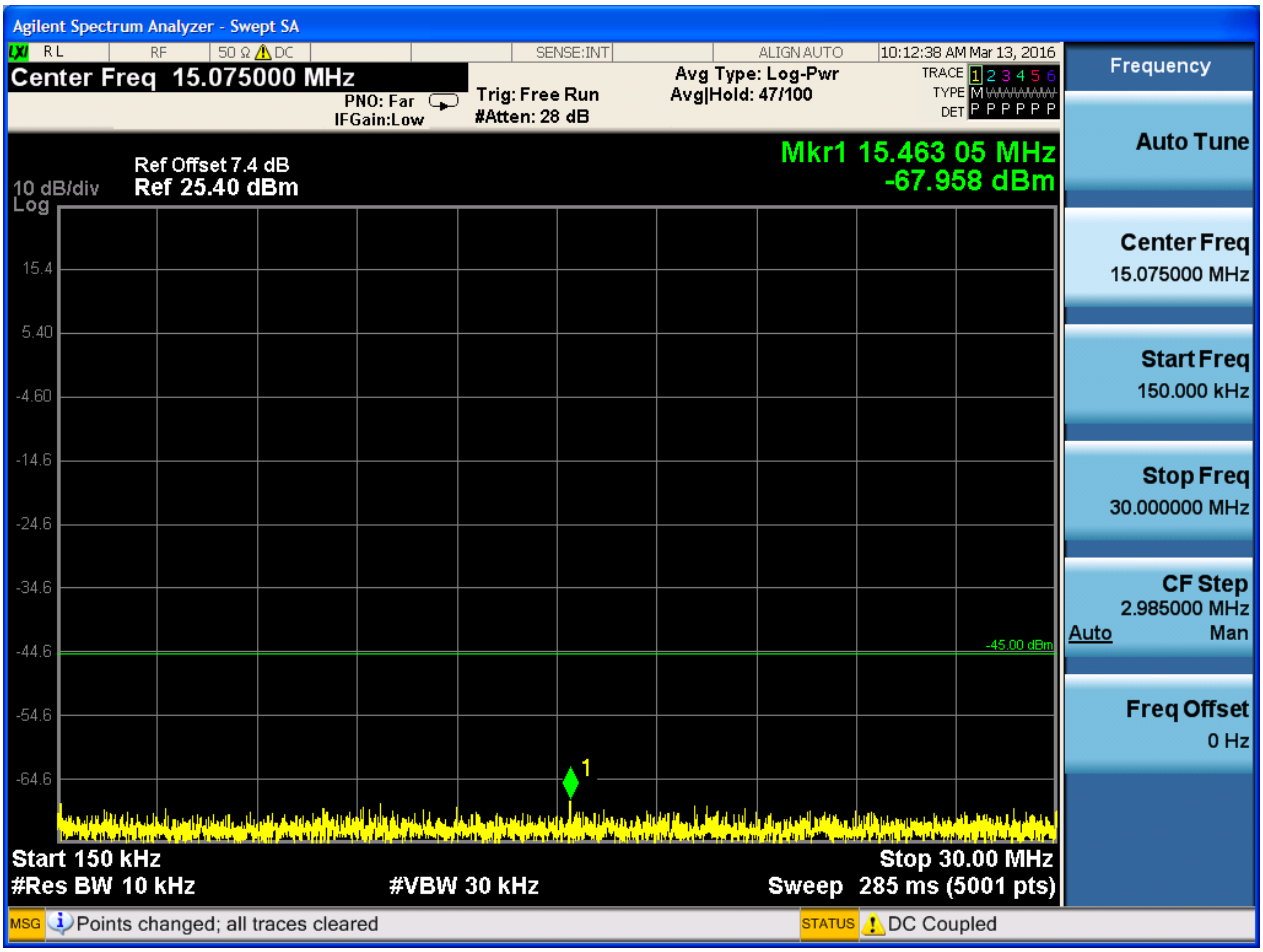

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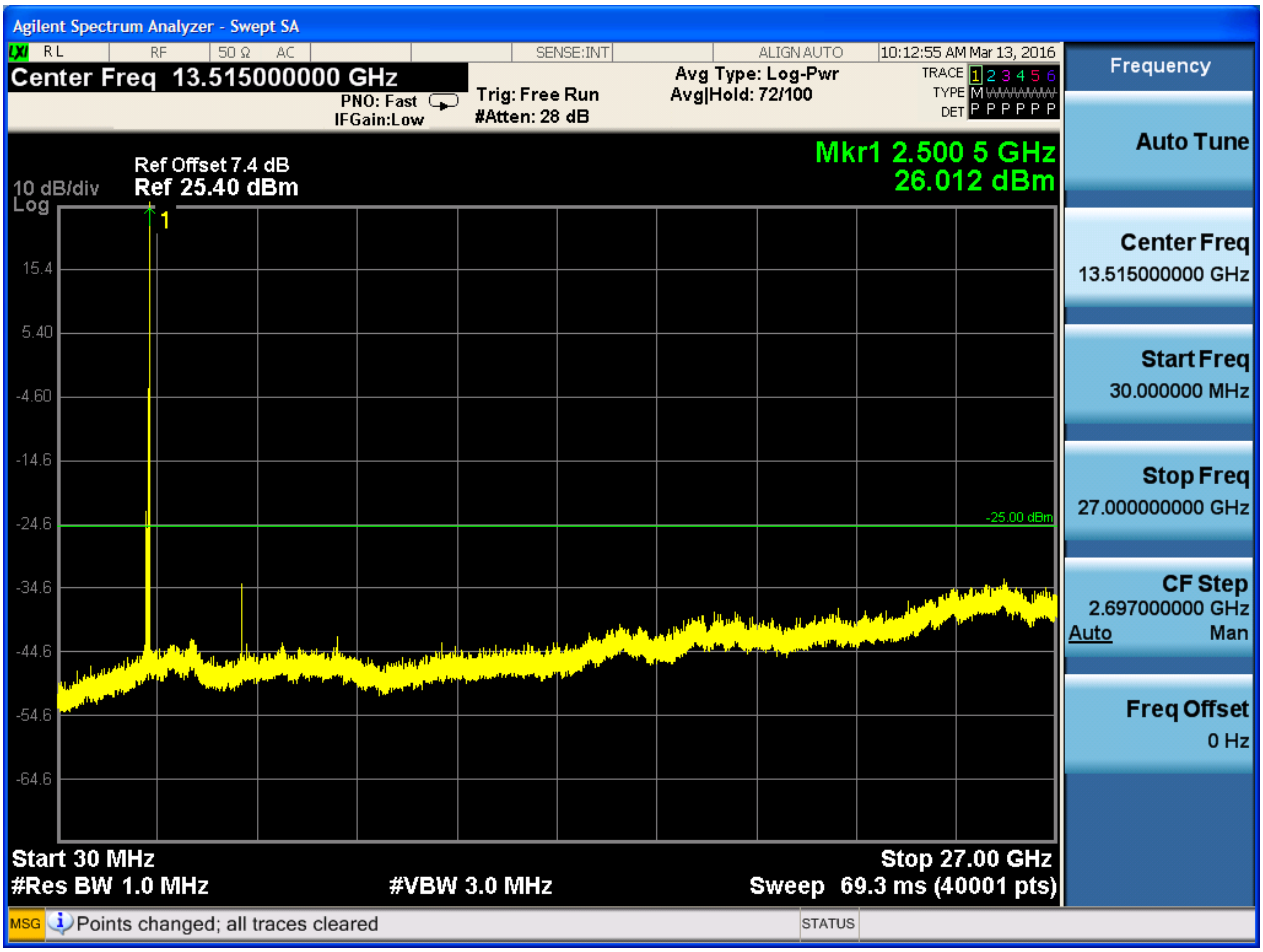

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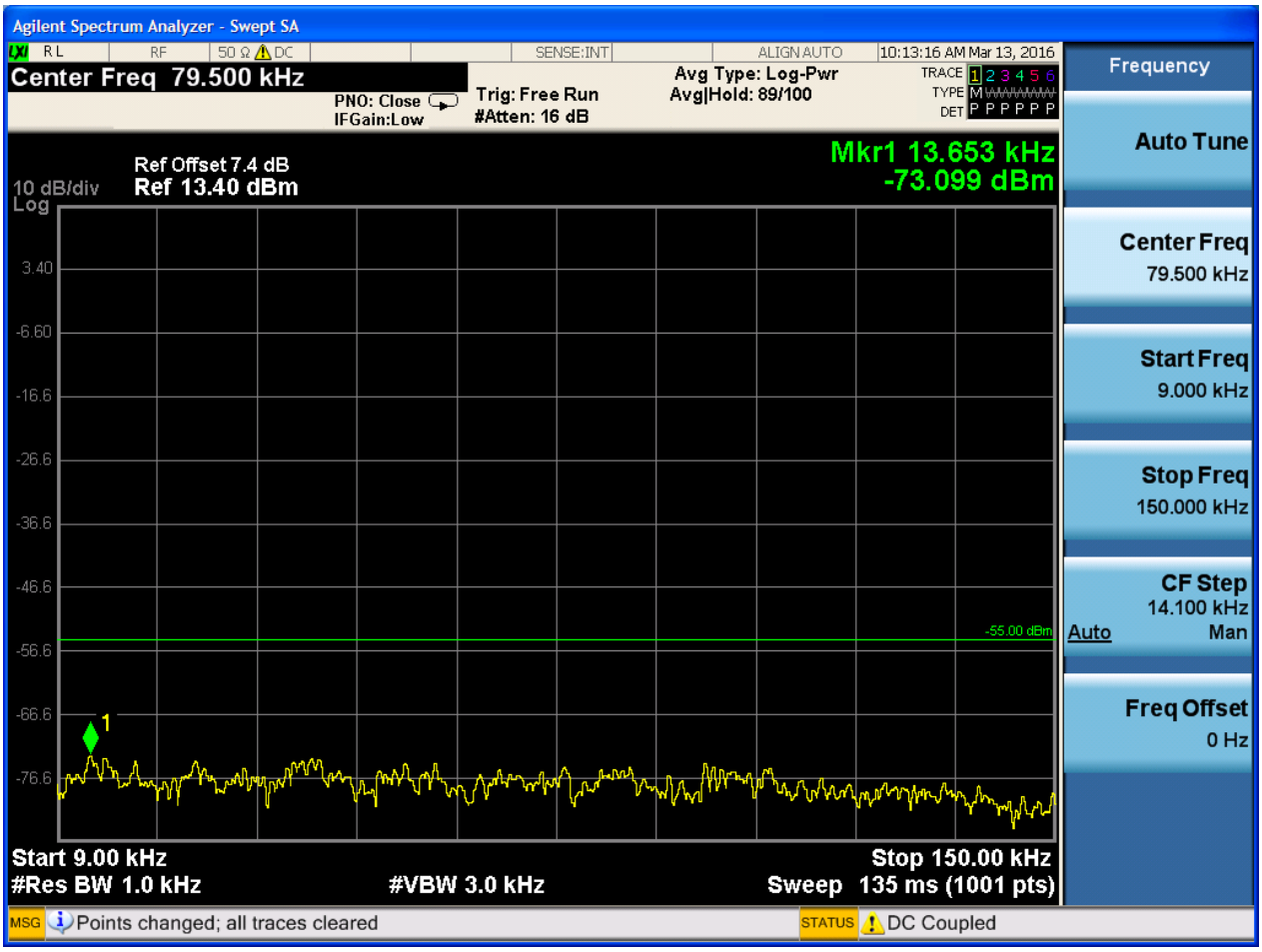
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



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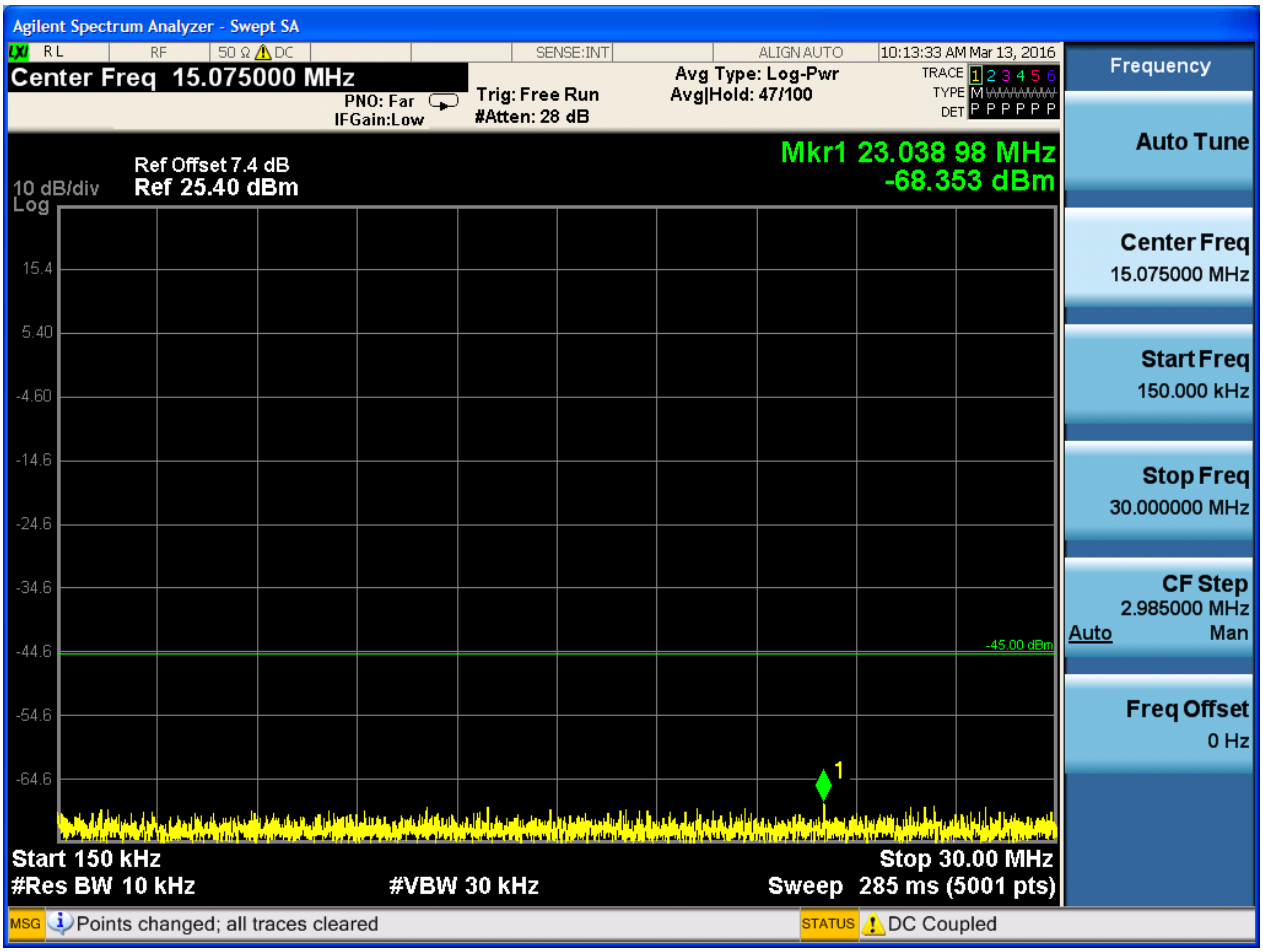

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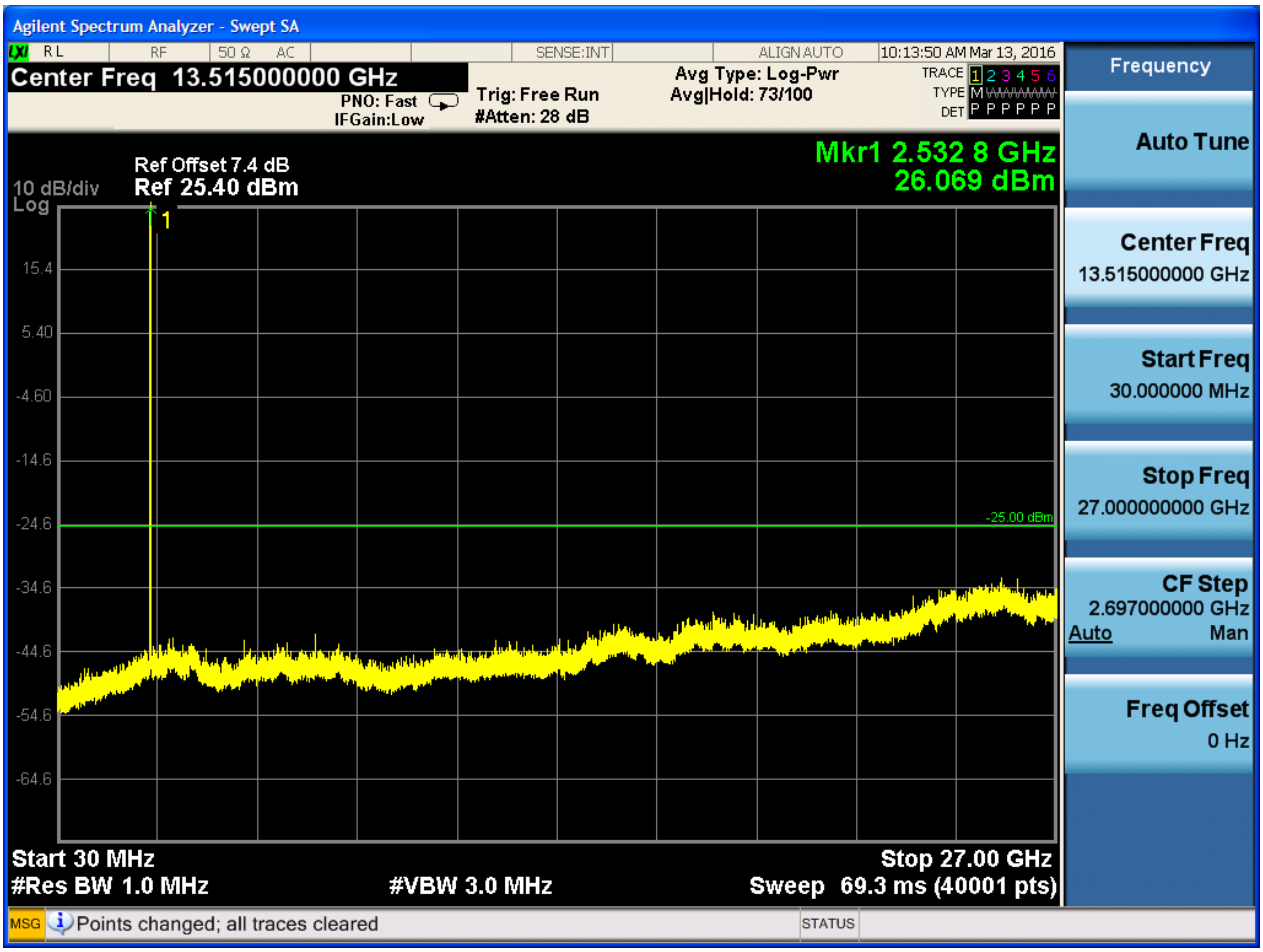

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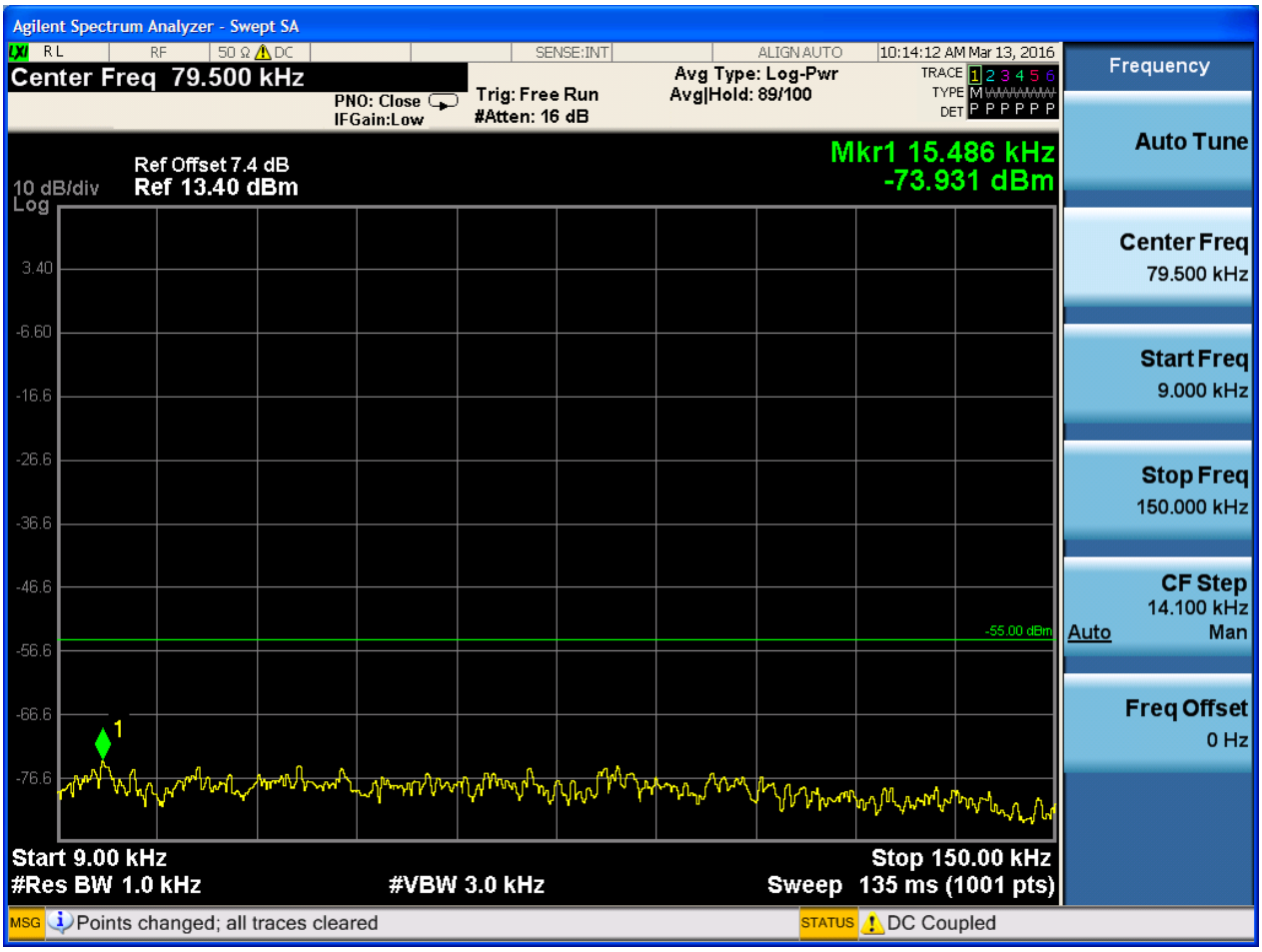
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



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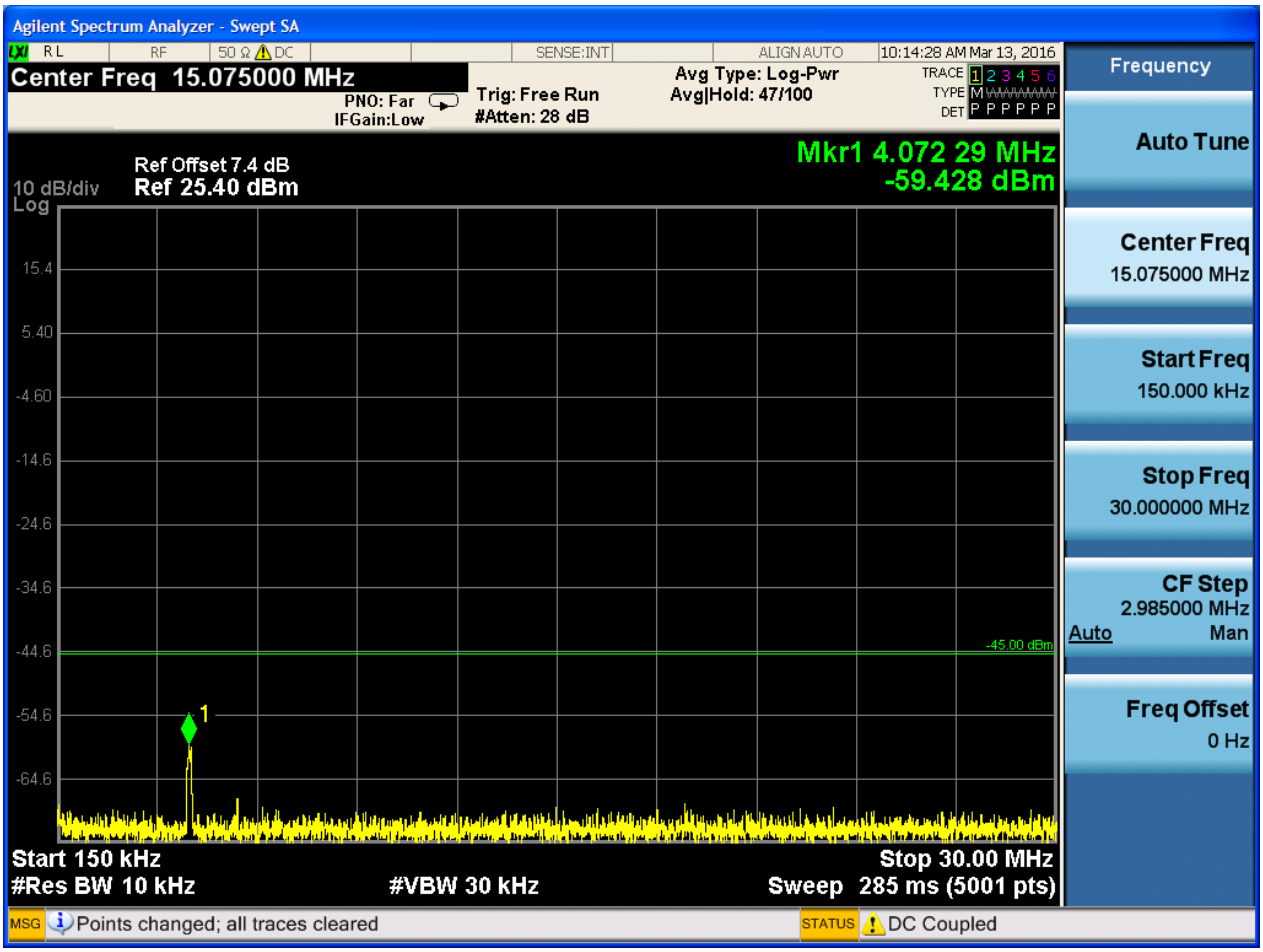

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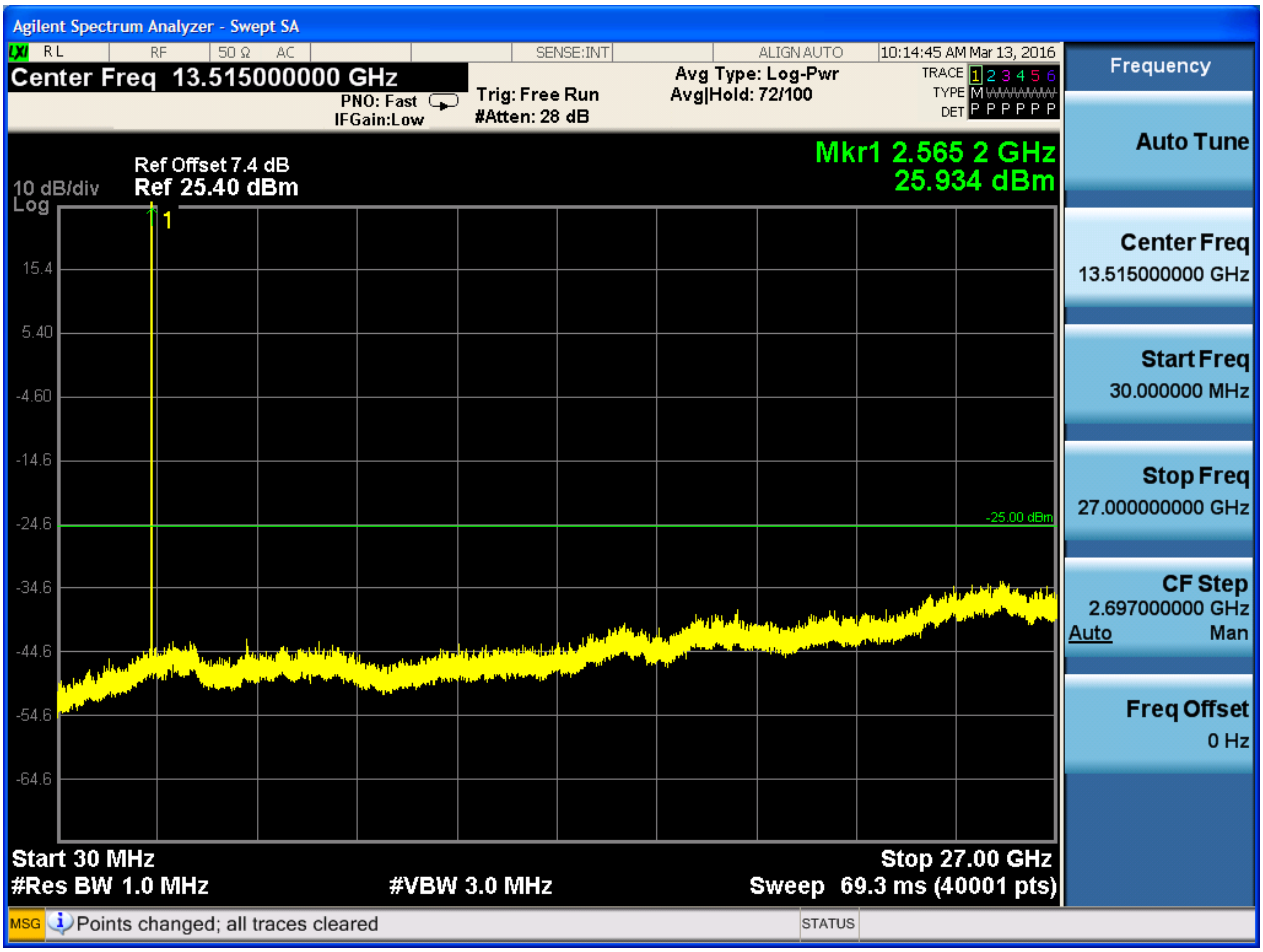

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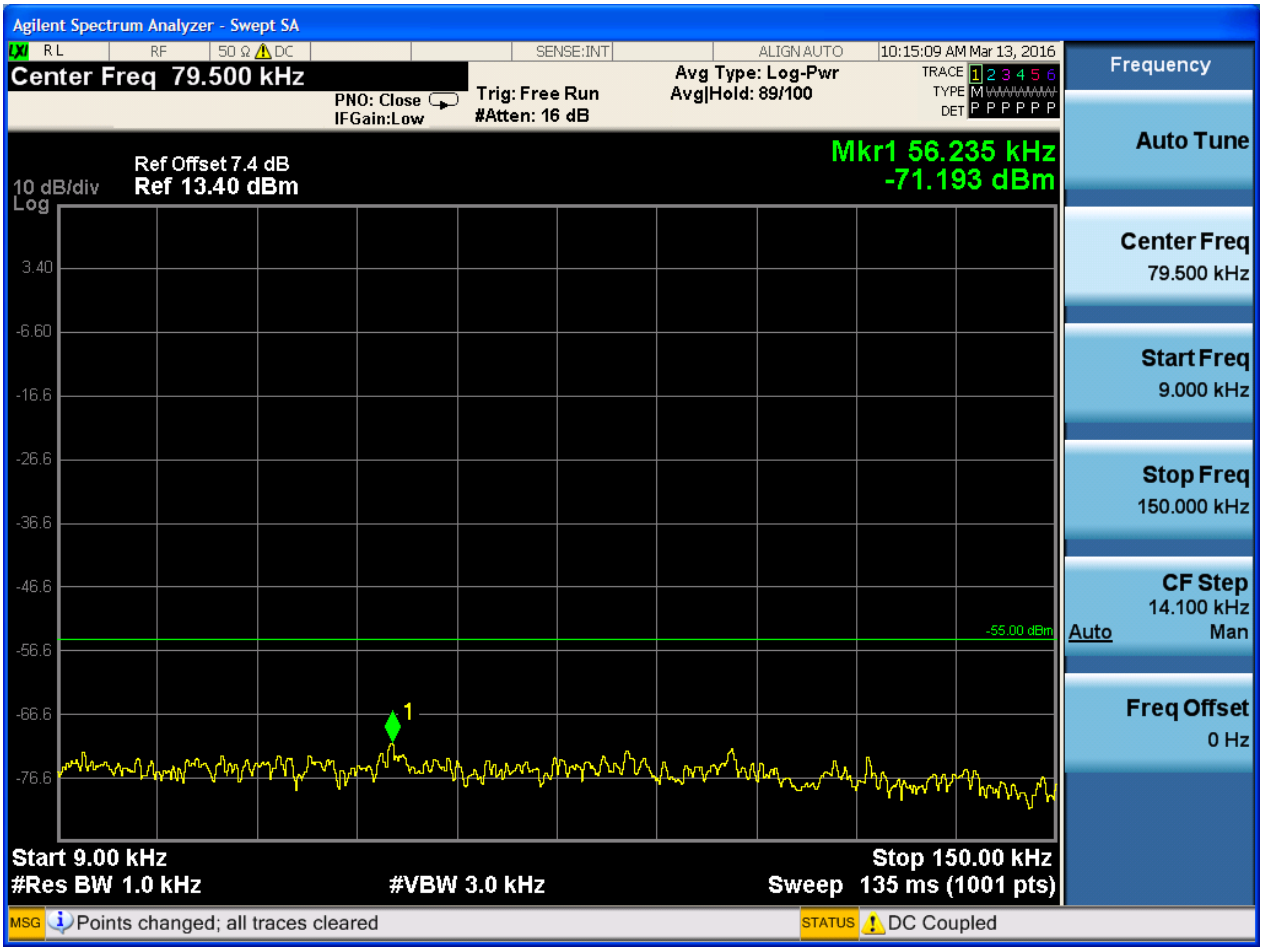
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



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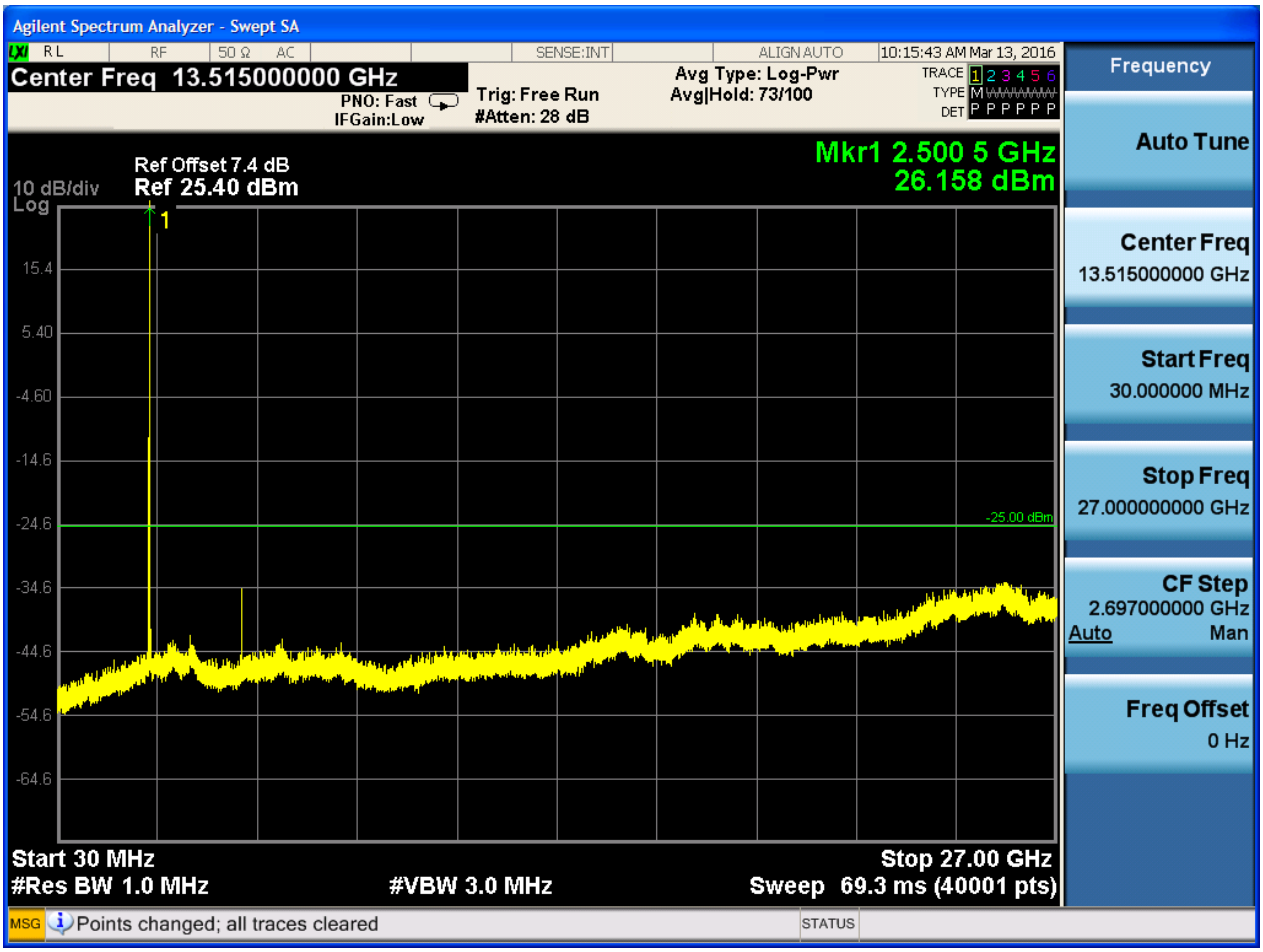

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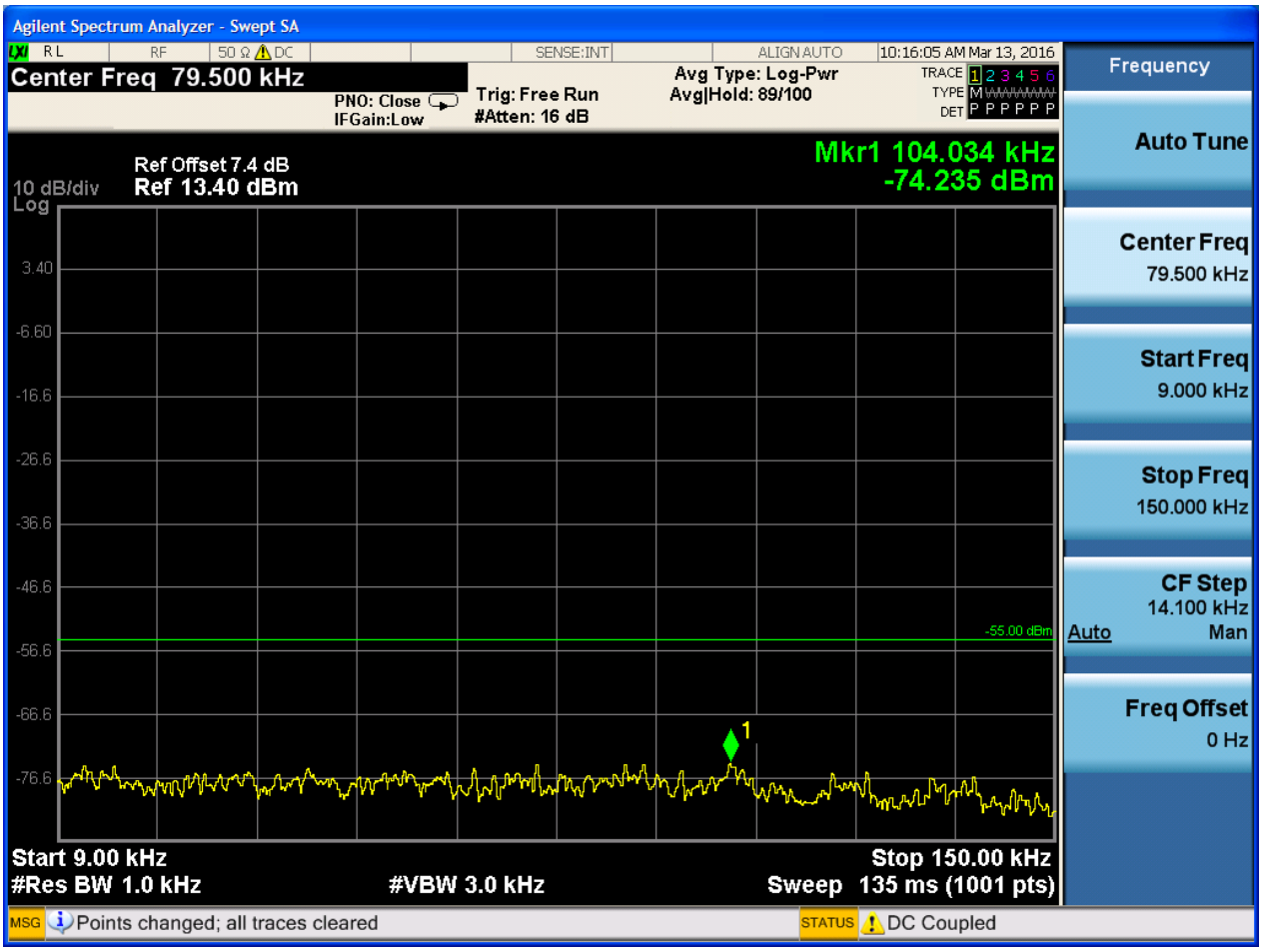
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



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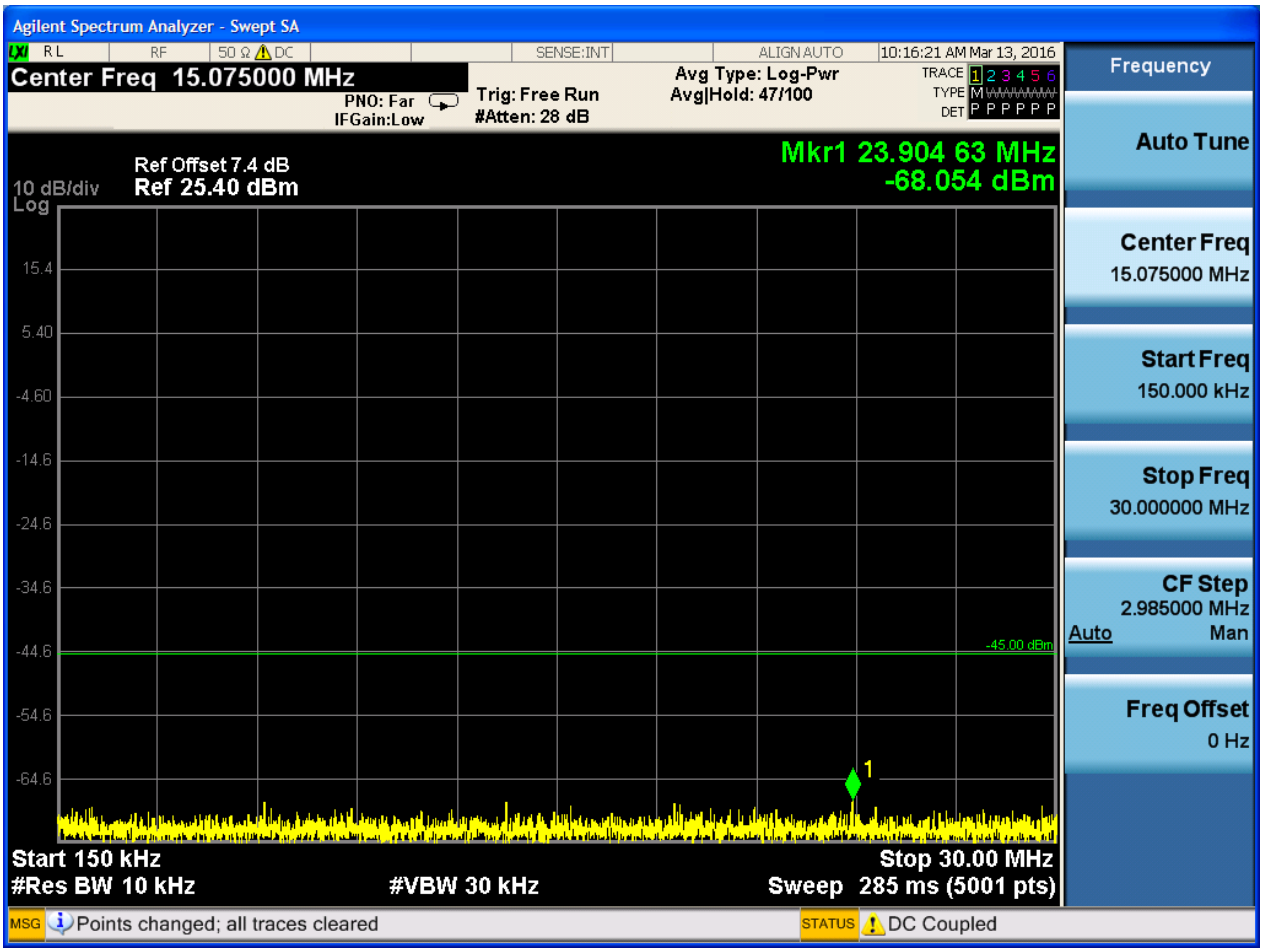

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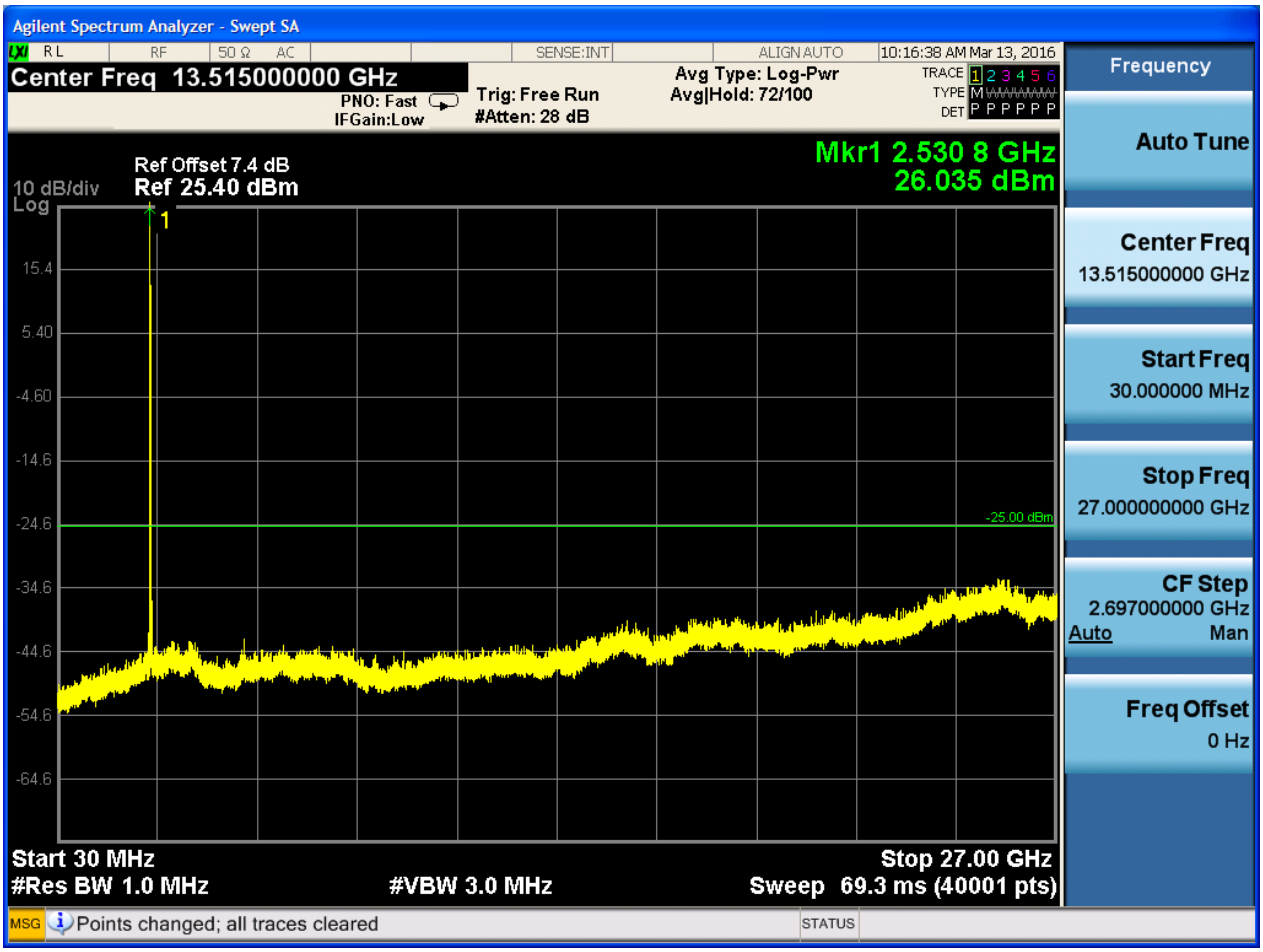

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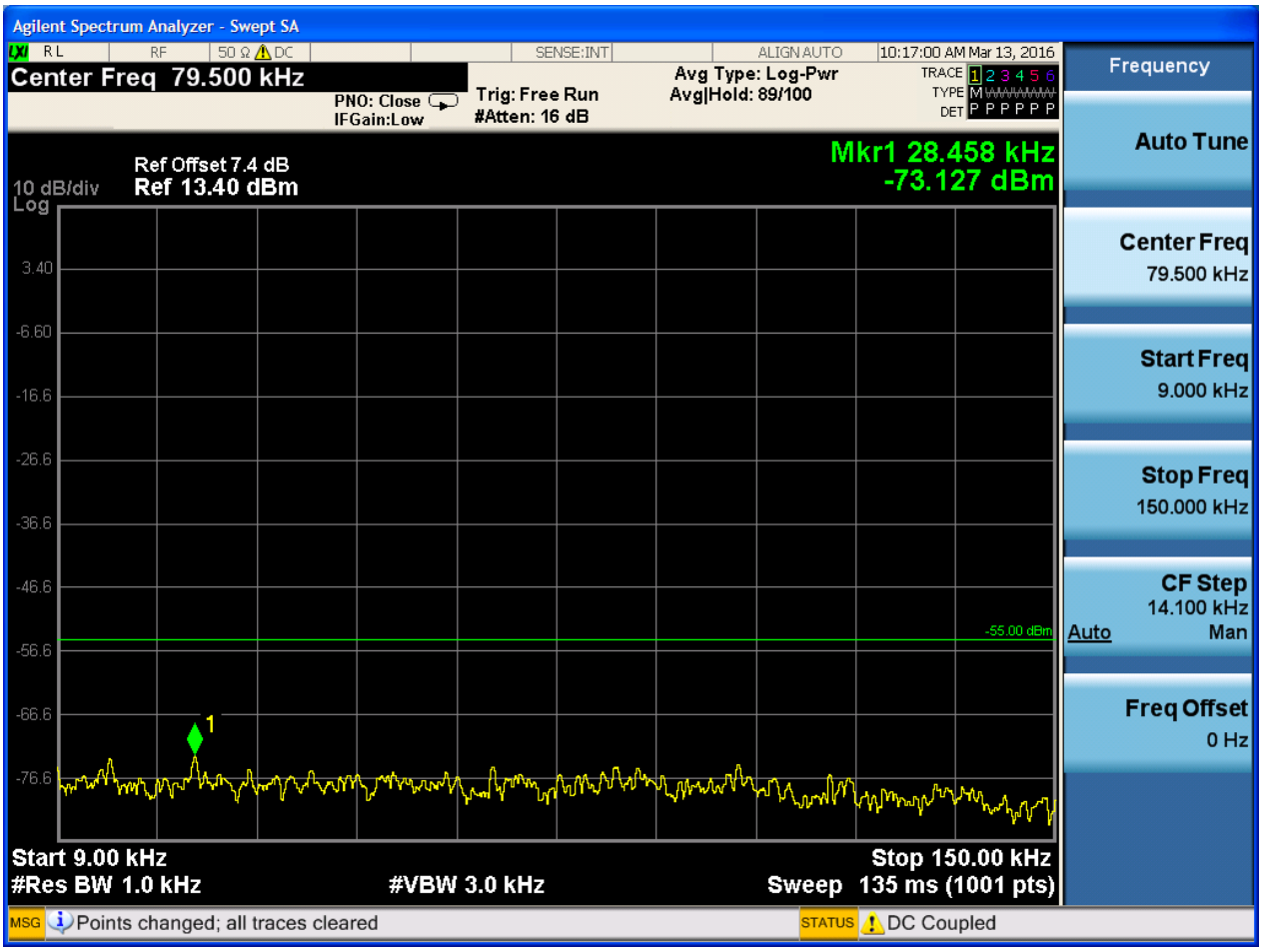
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



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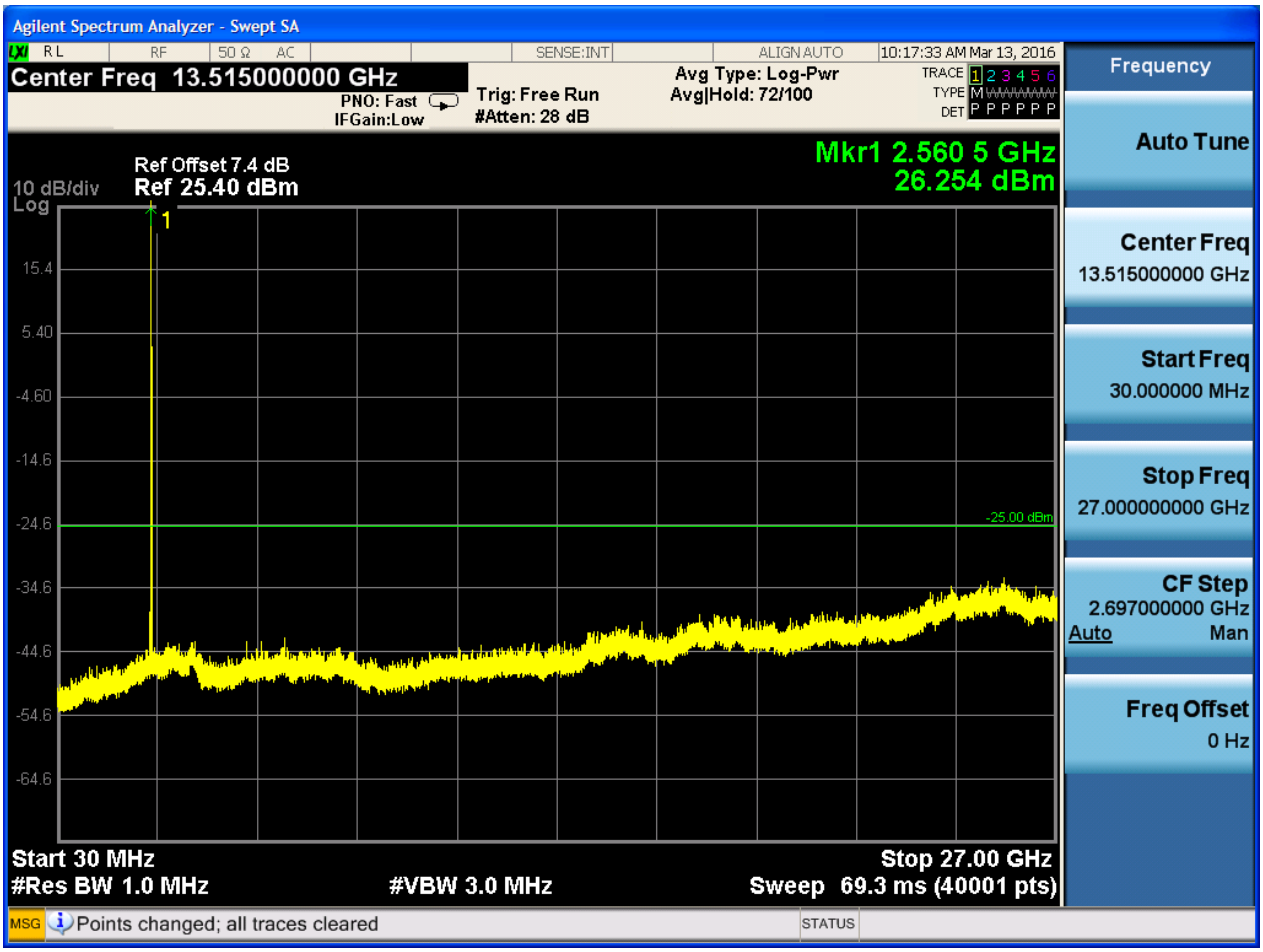

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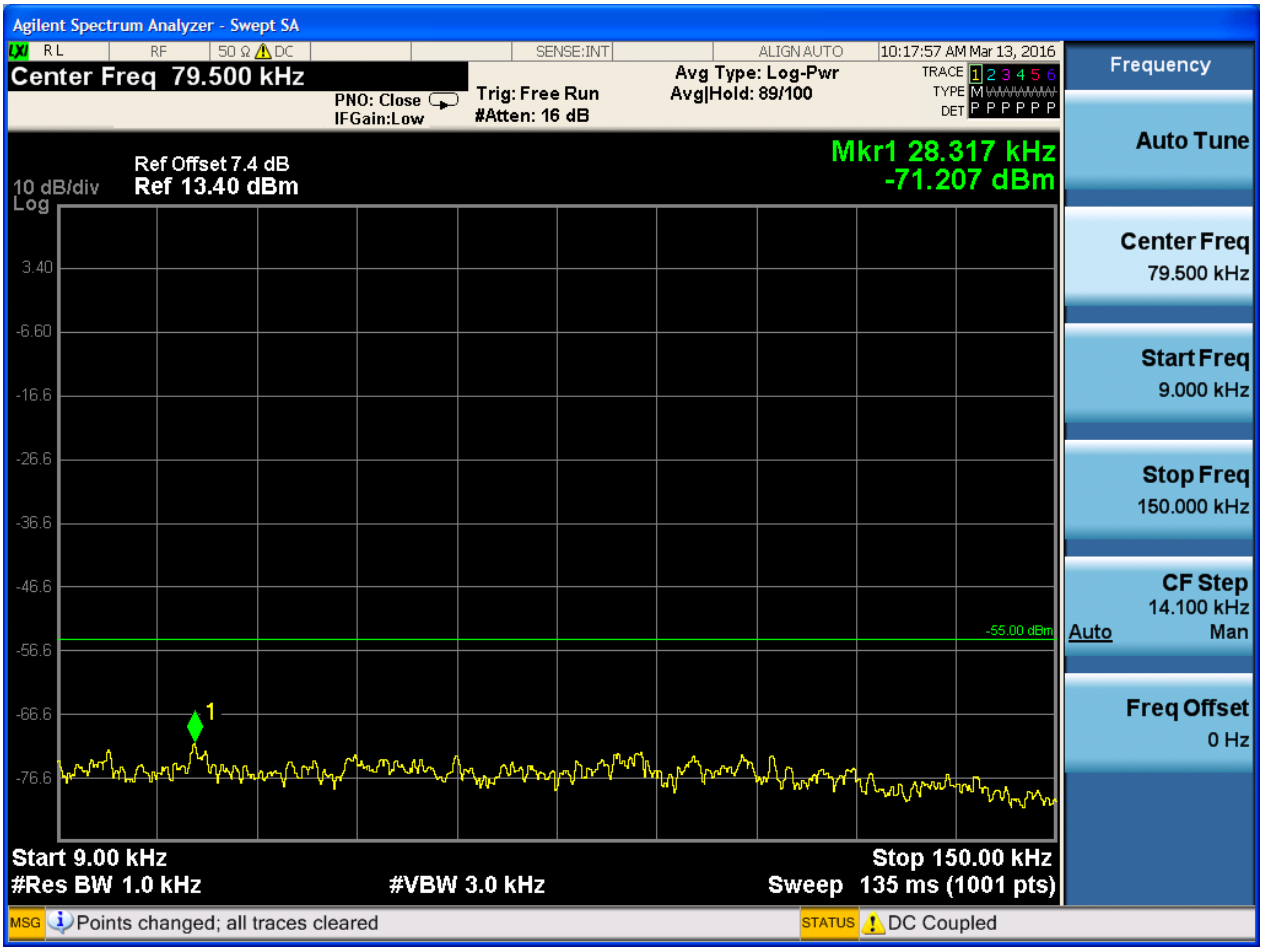
6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



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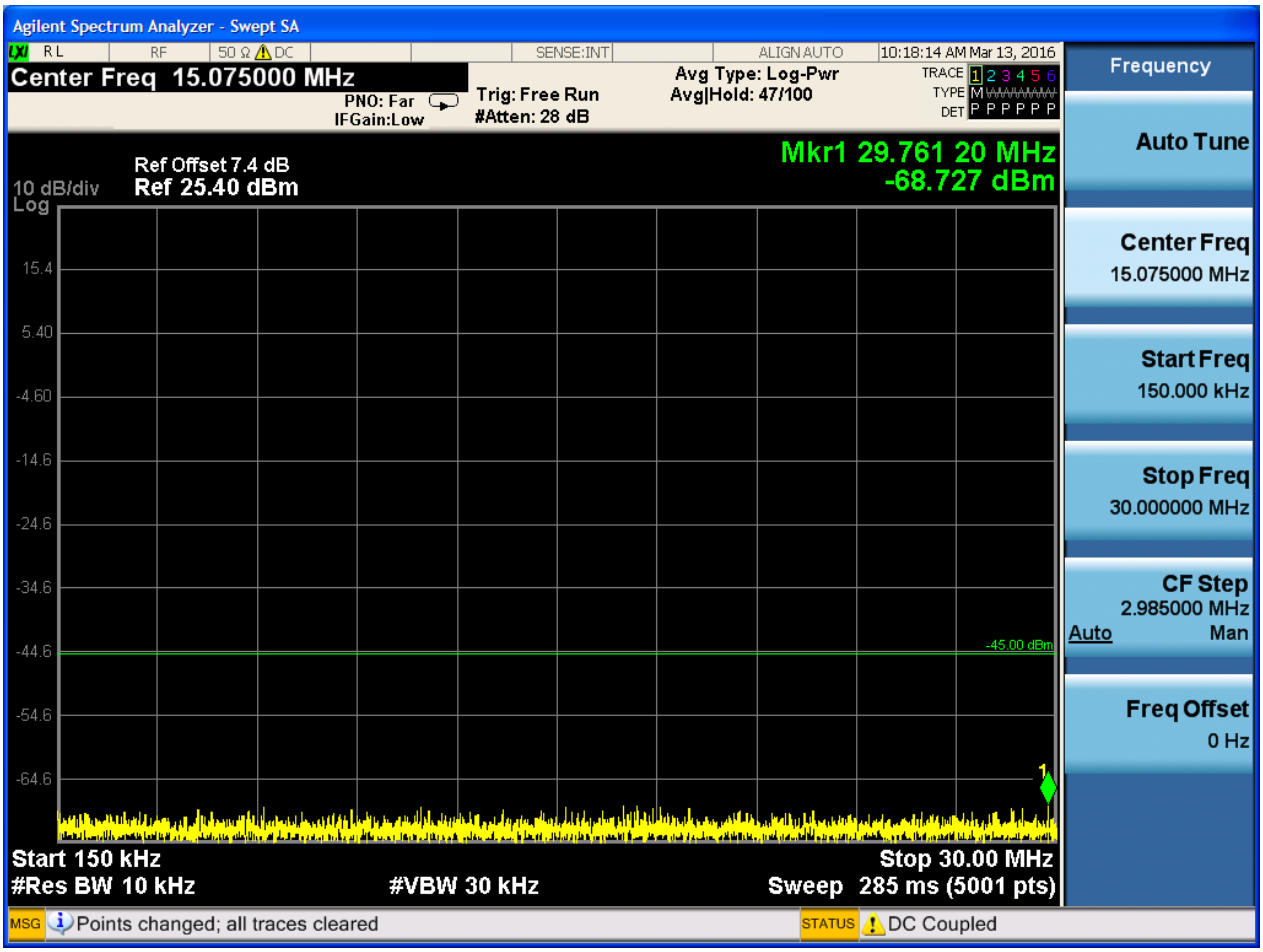

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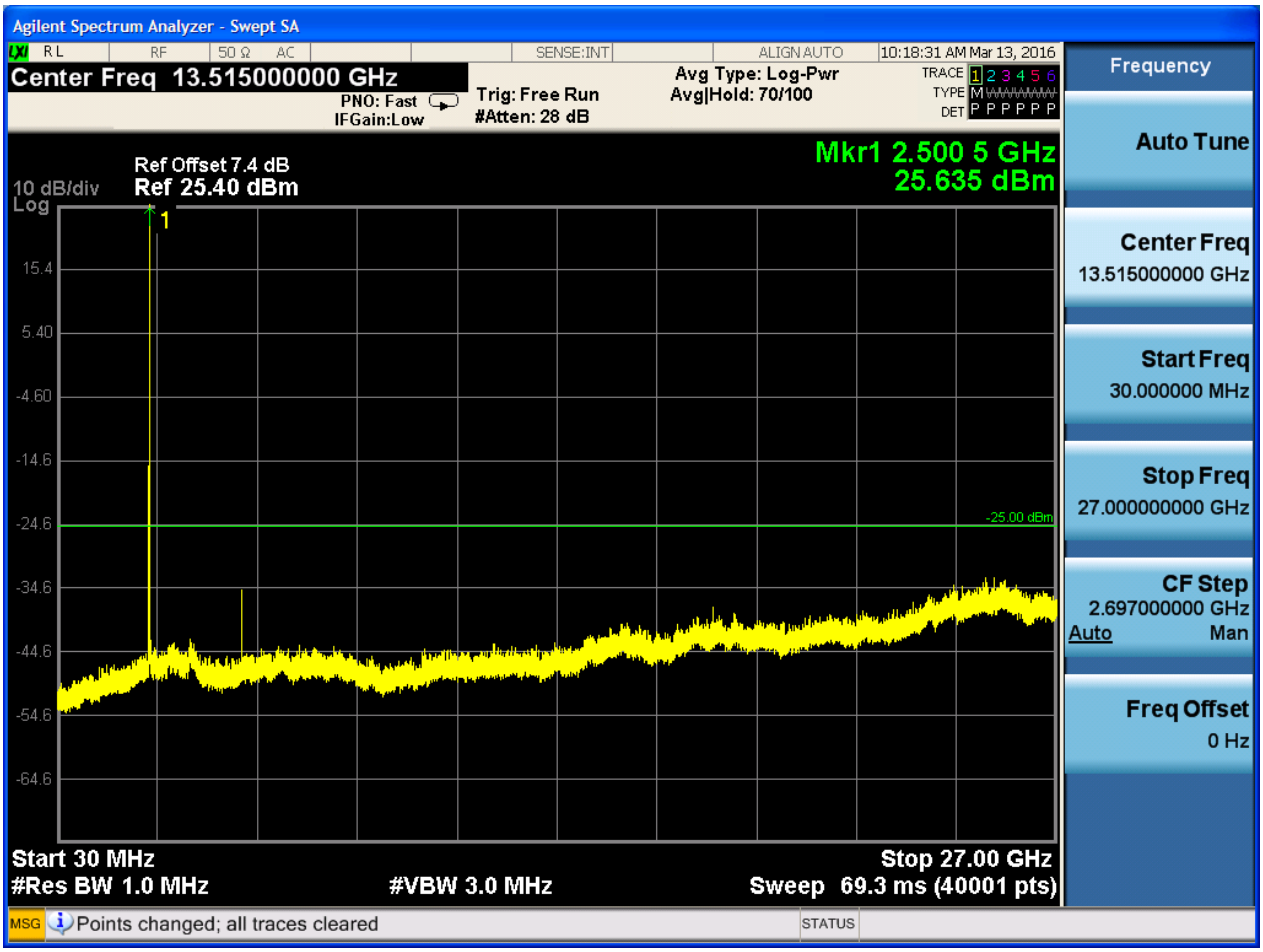

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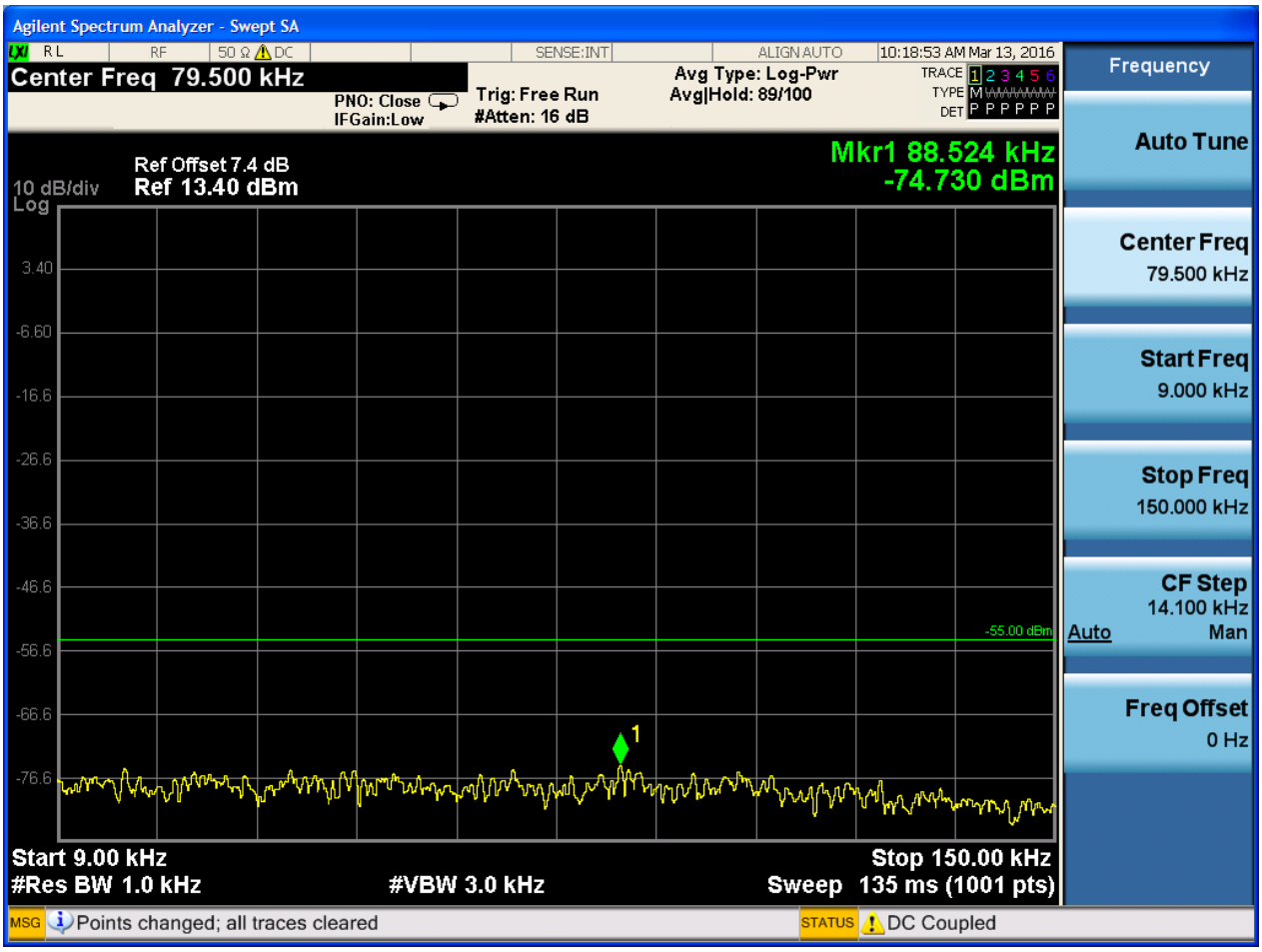
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



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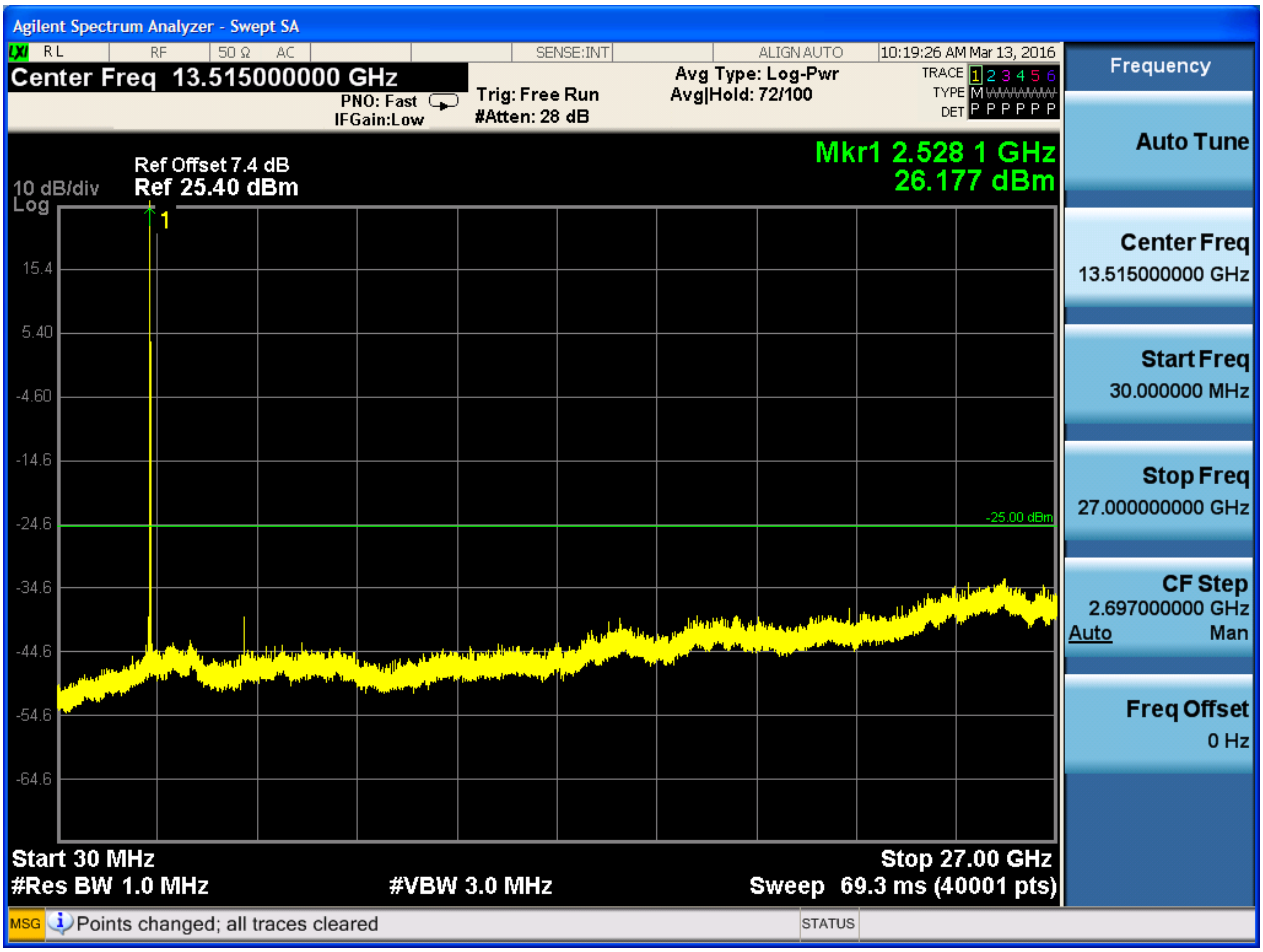

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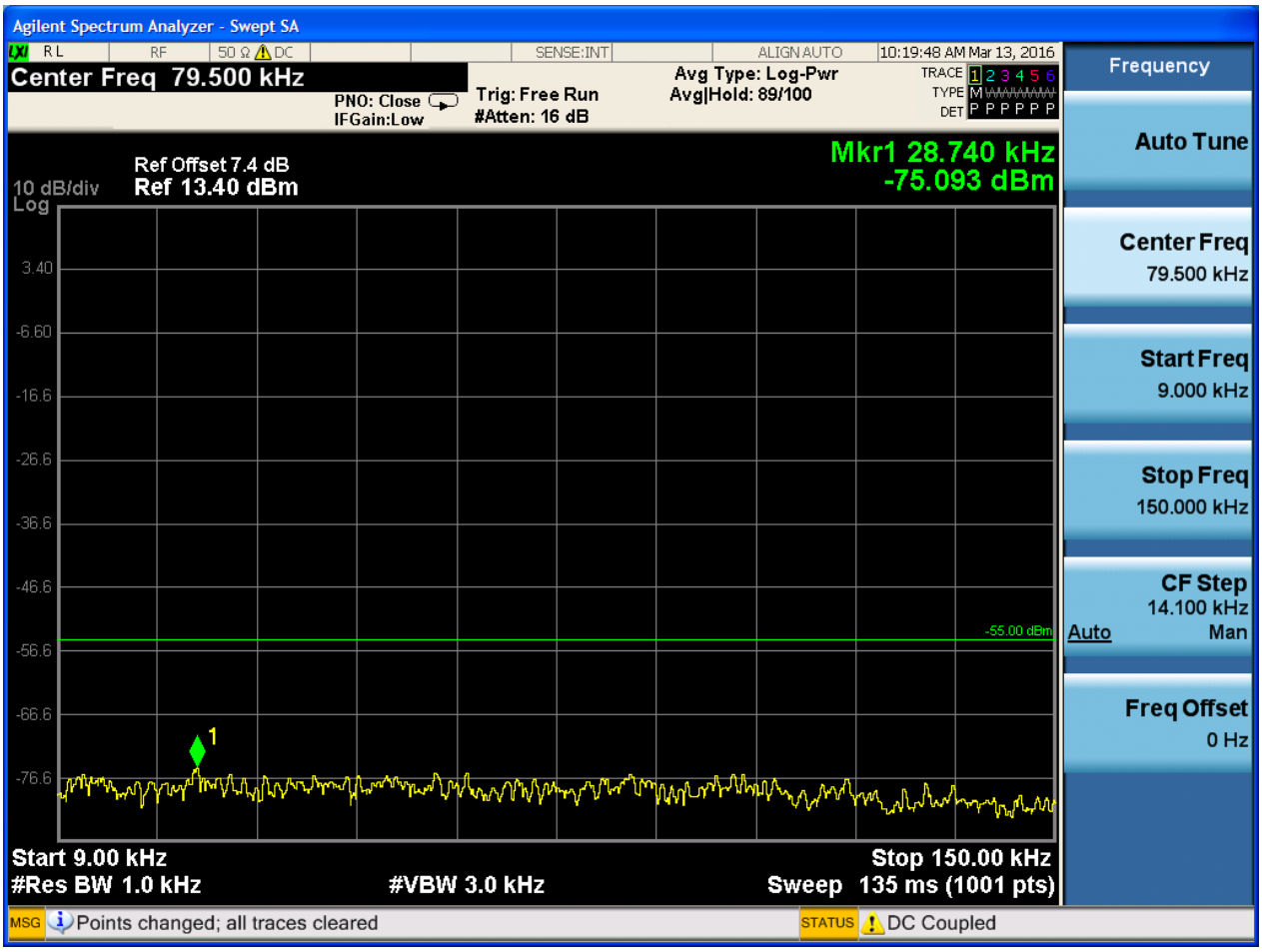
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



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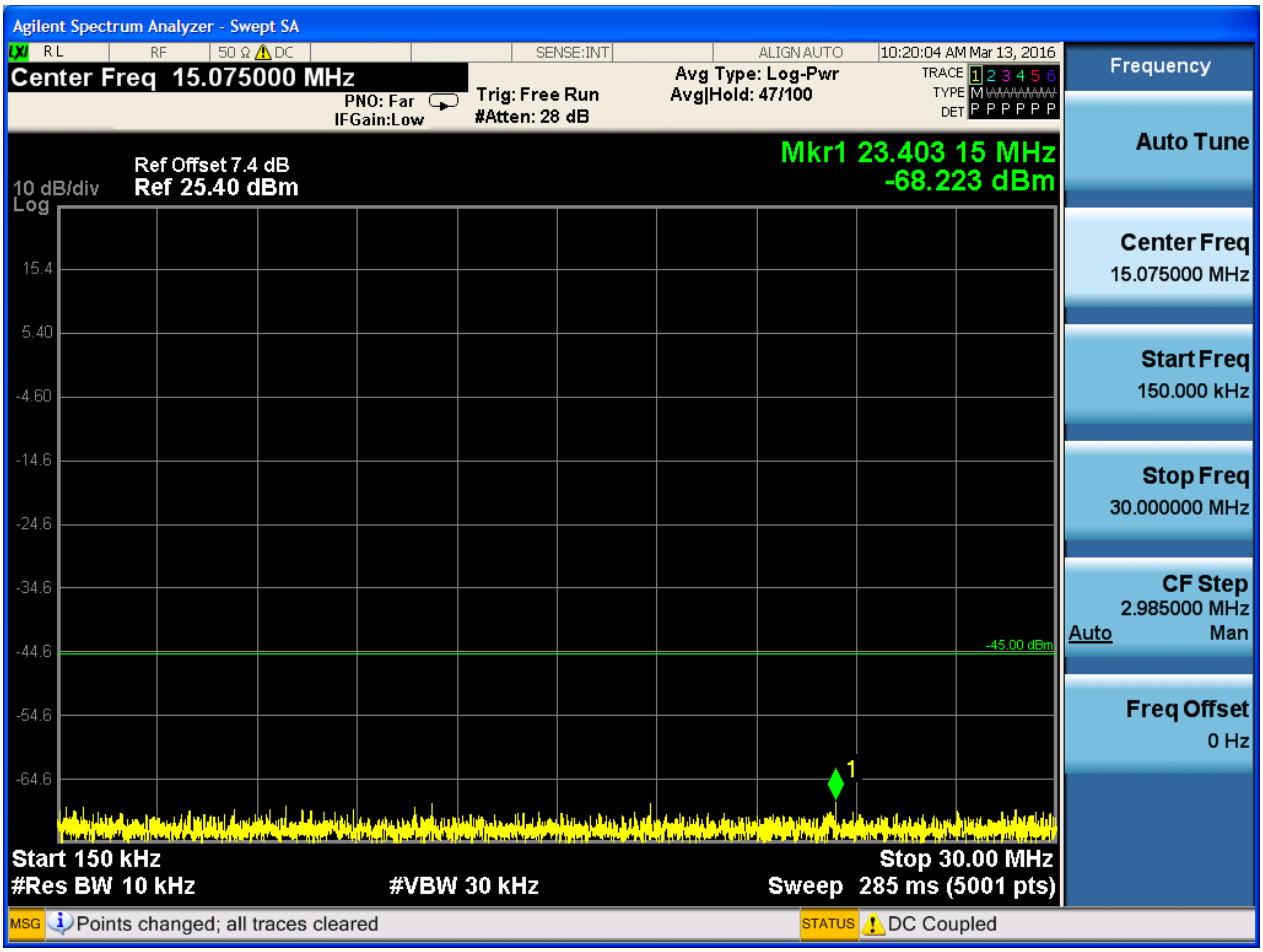

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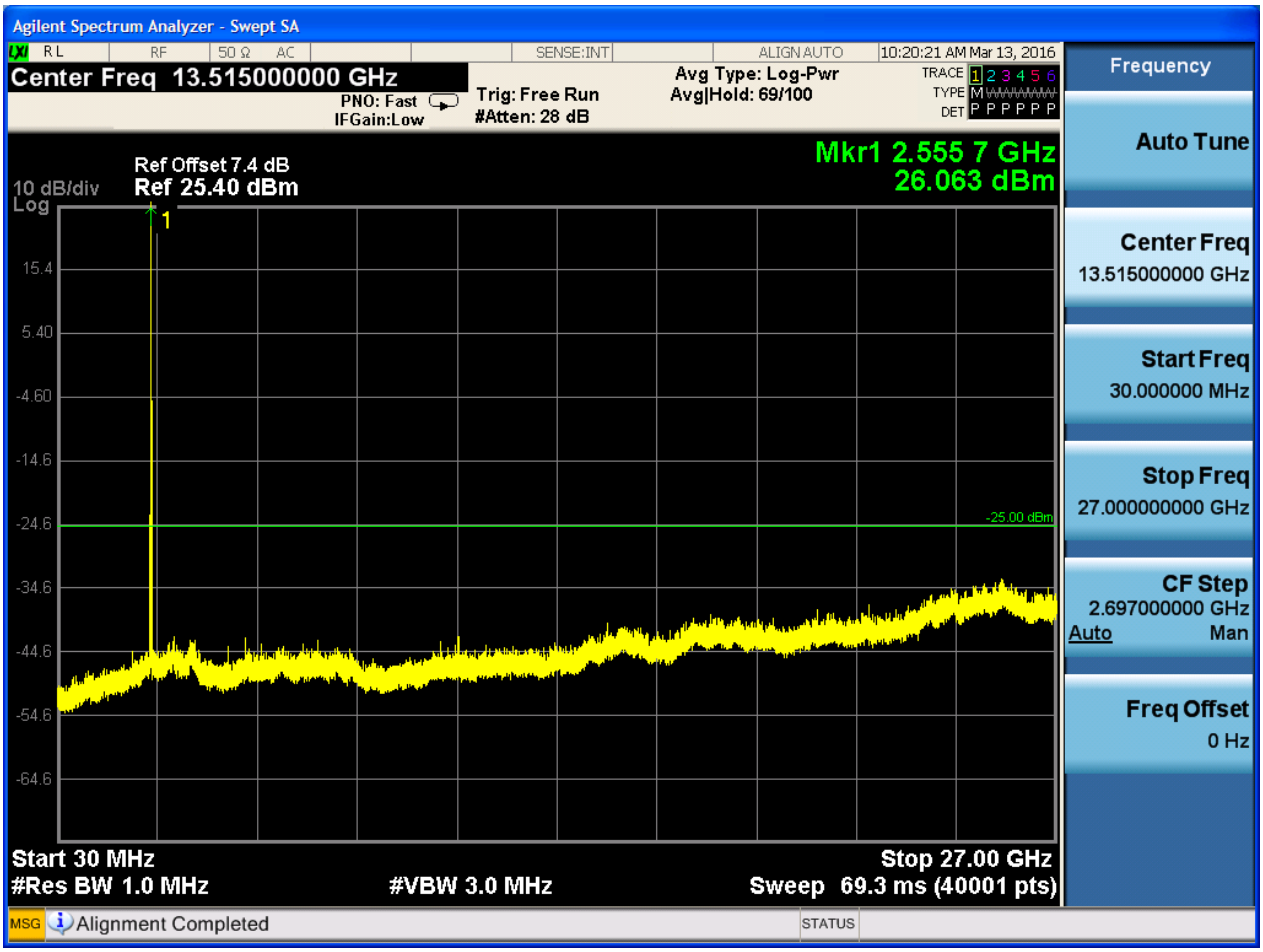

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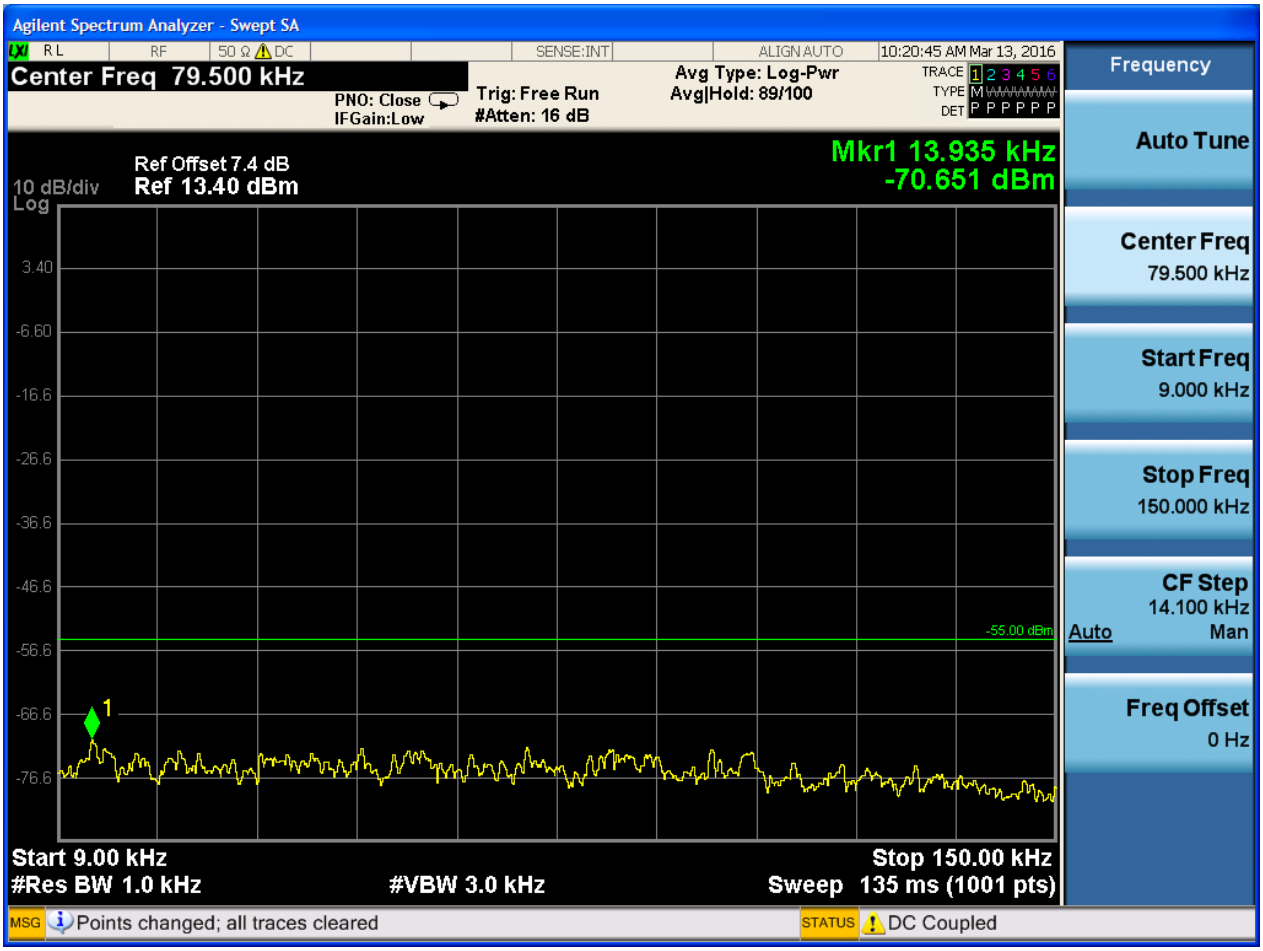
6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



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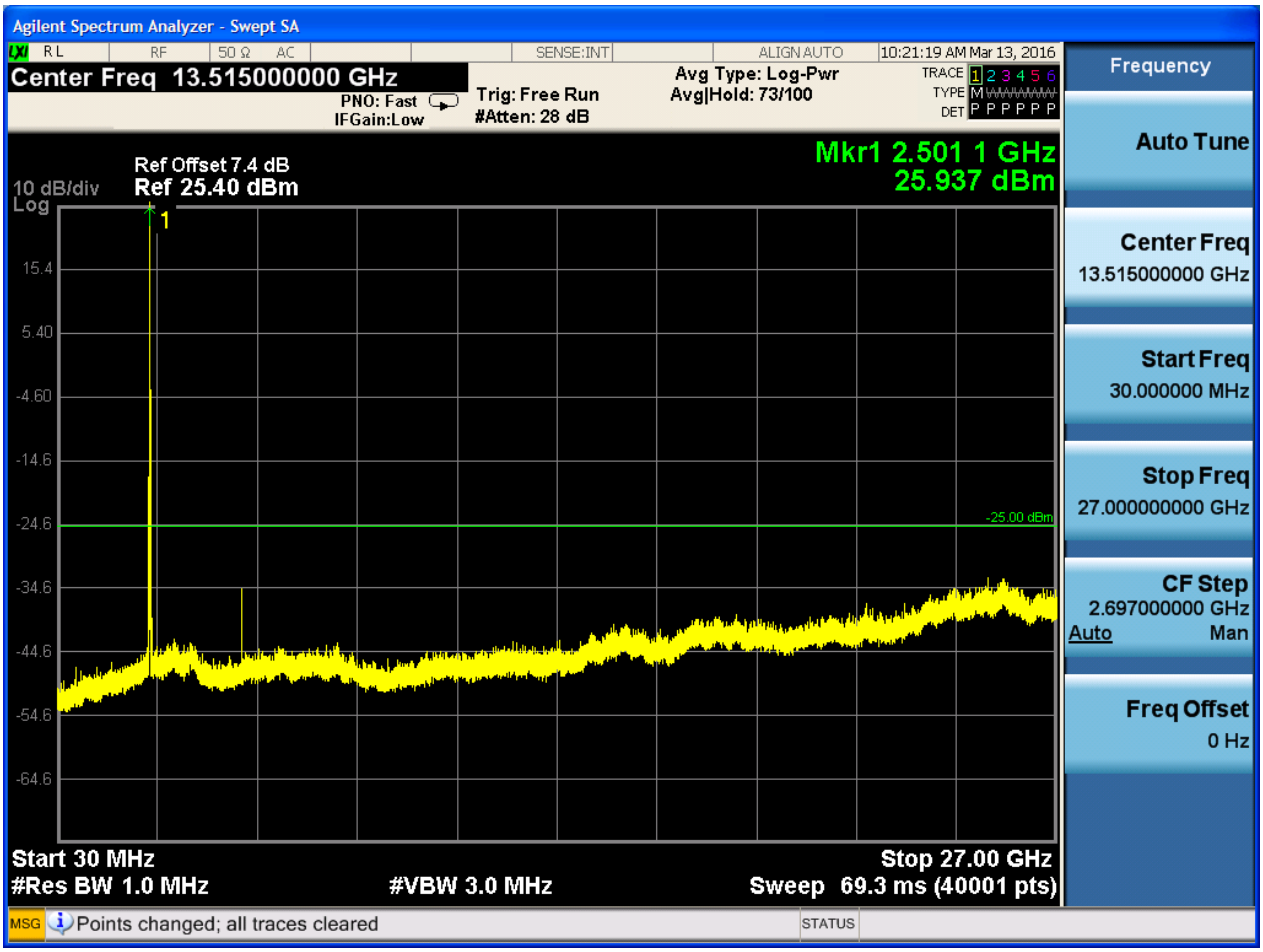

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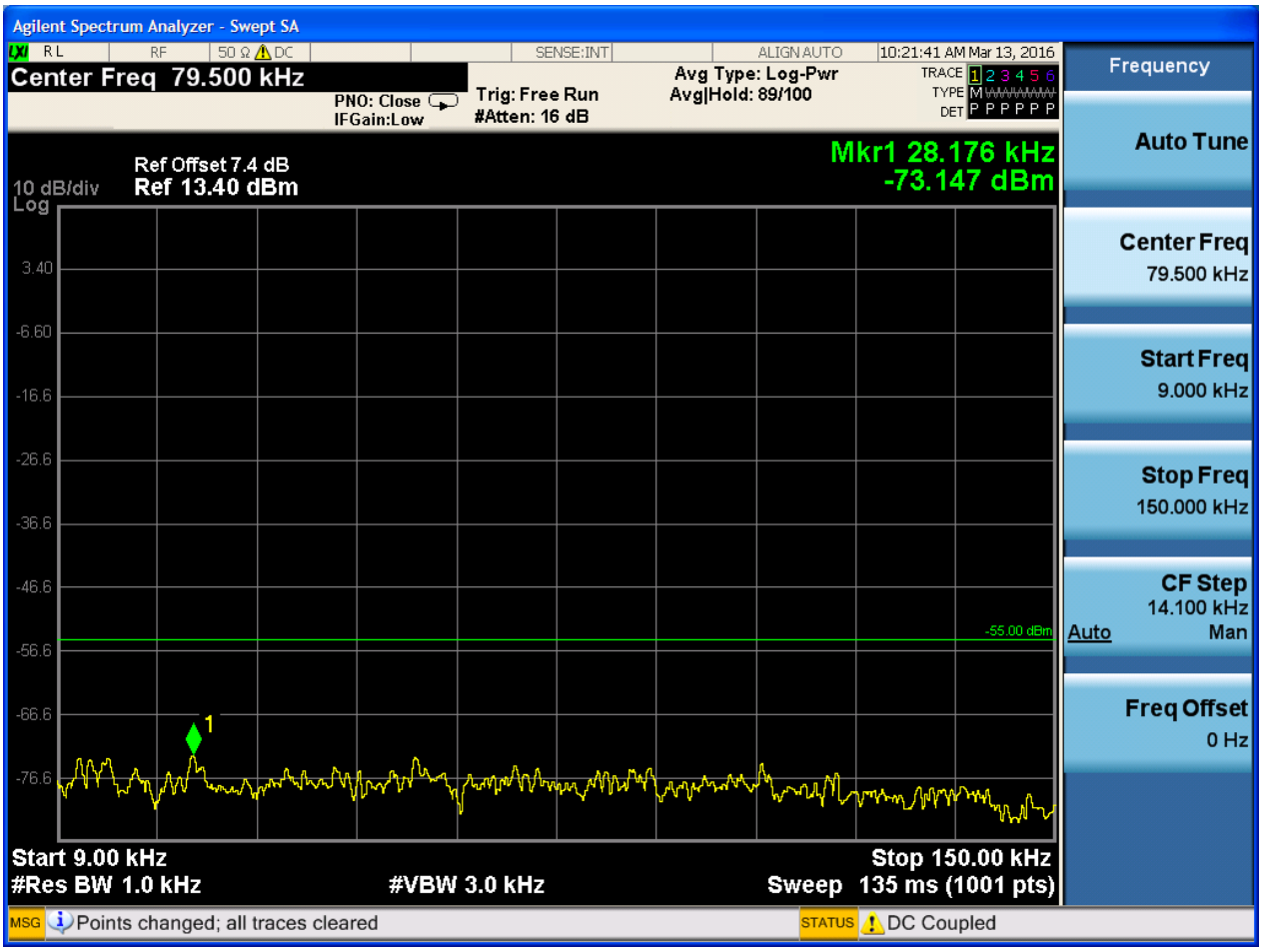
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



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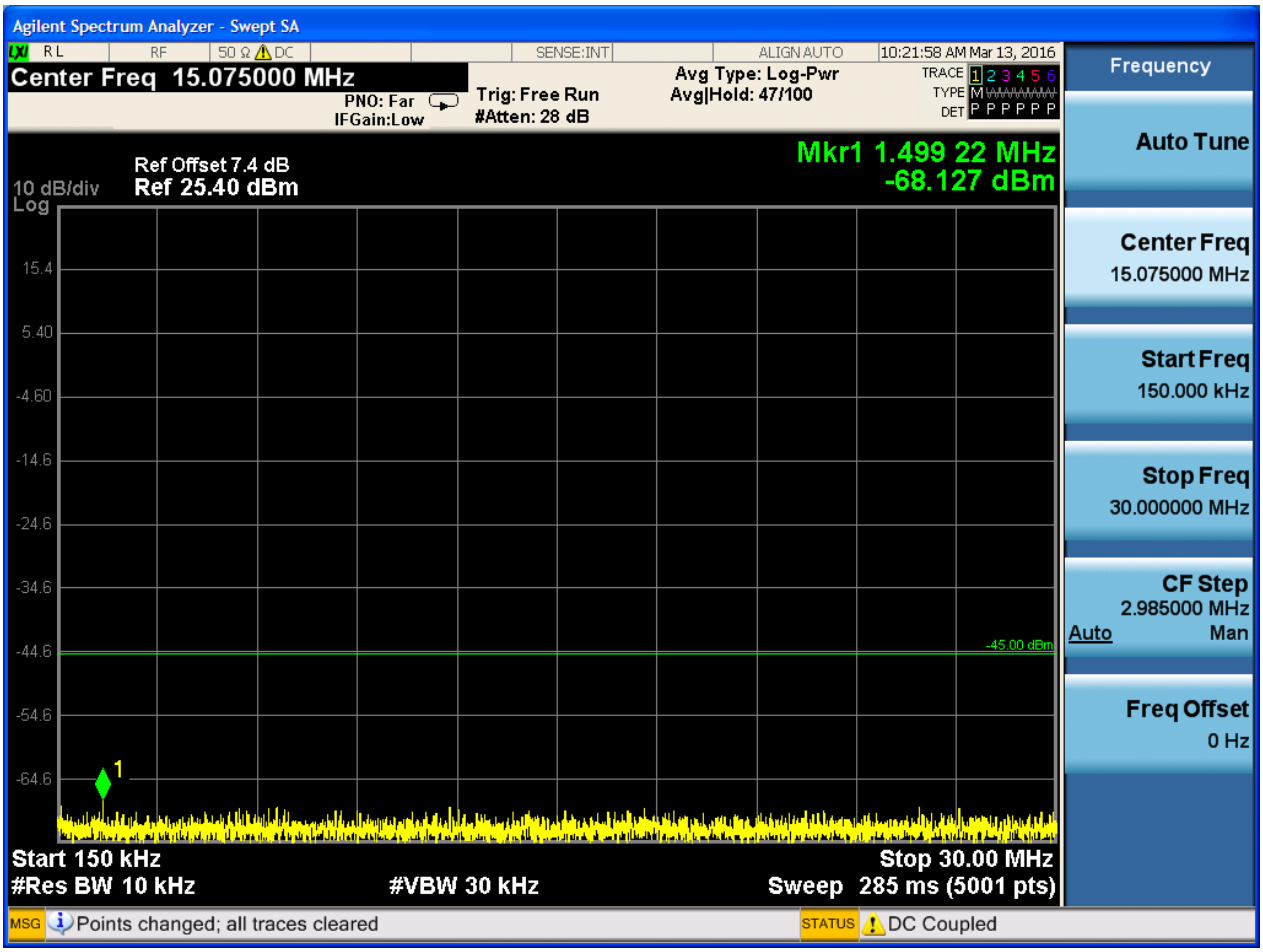

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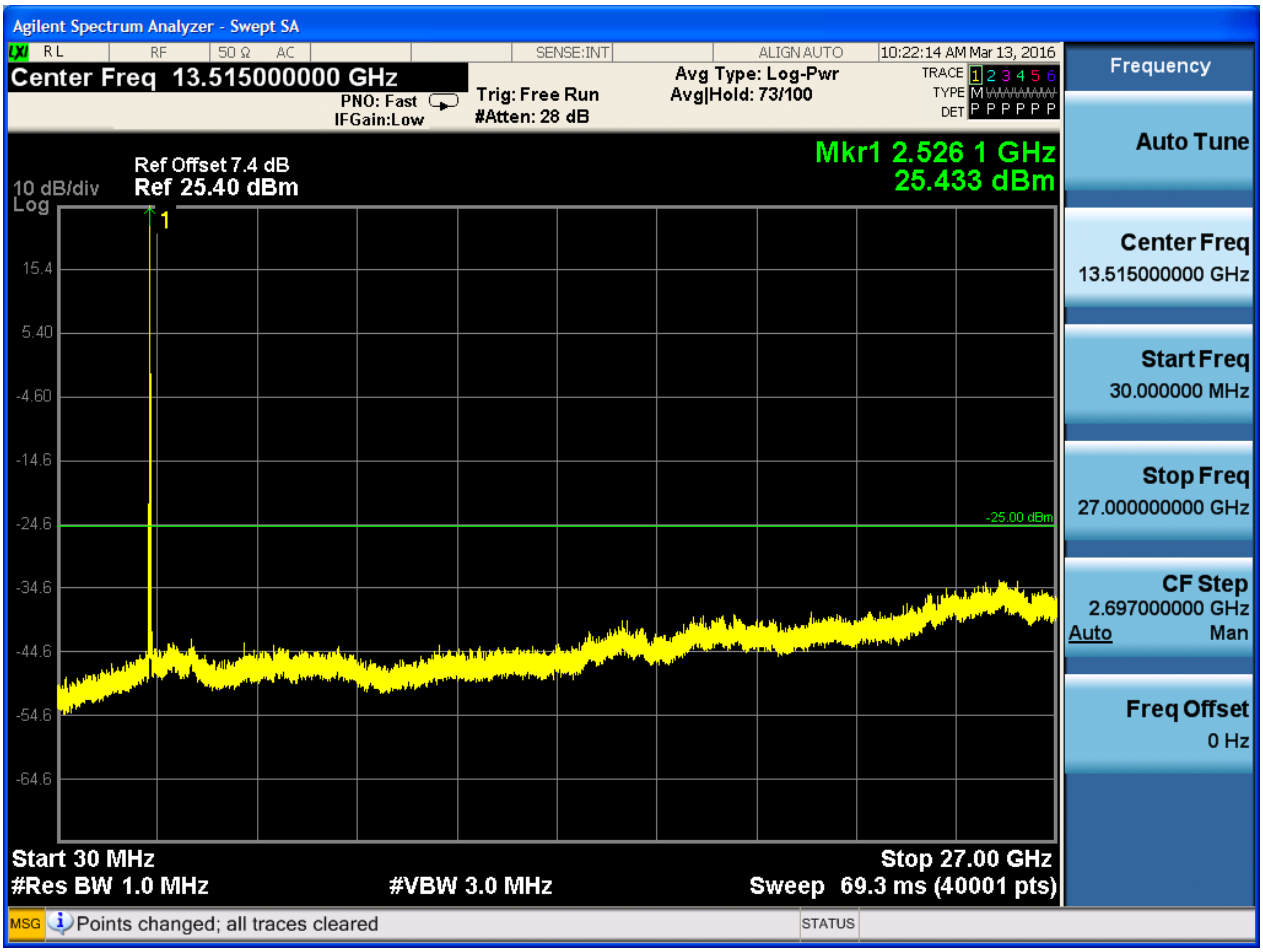

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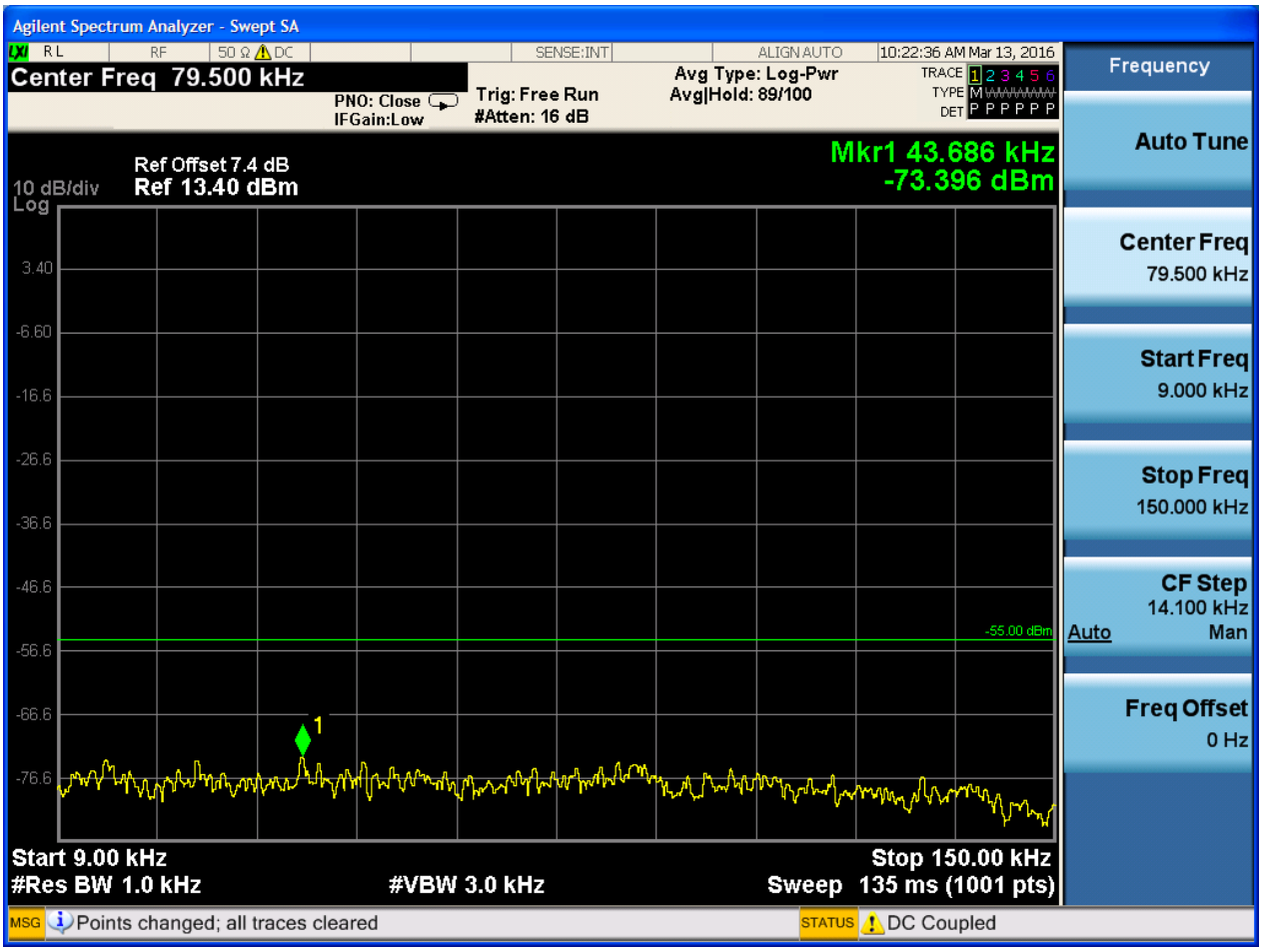
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0



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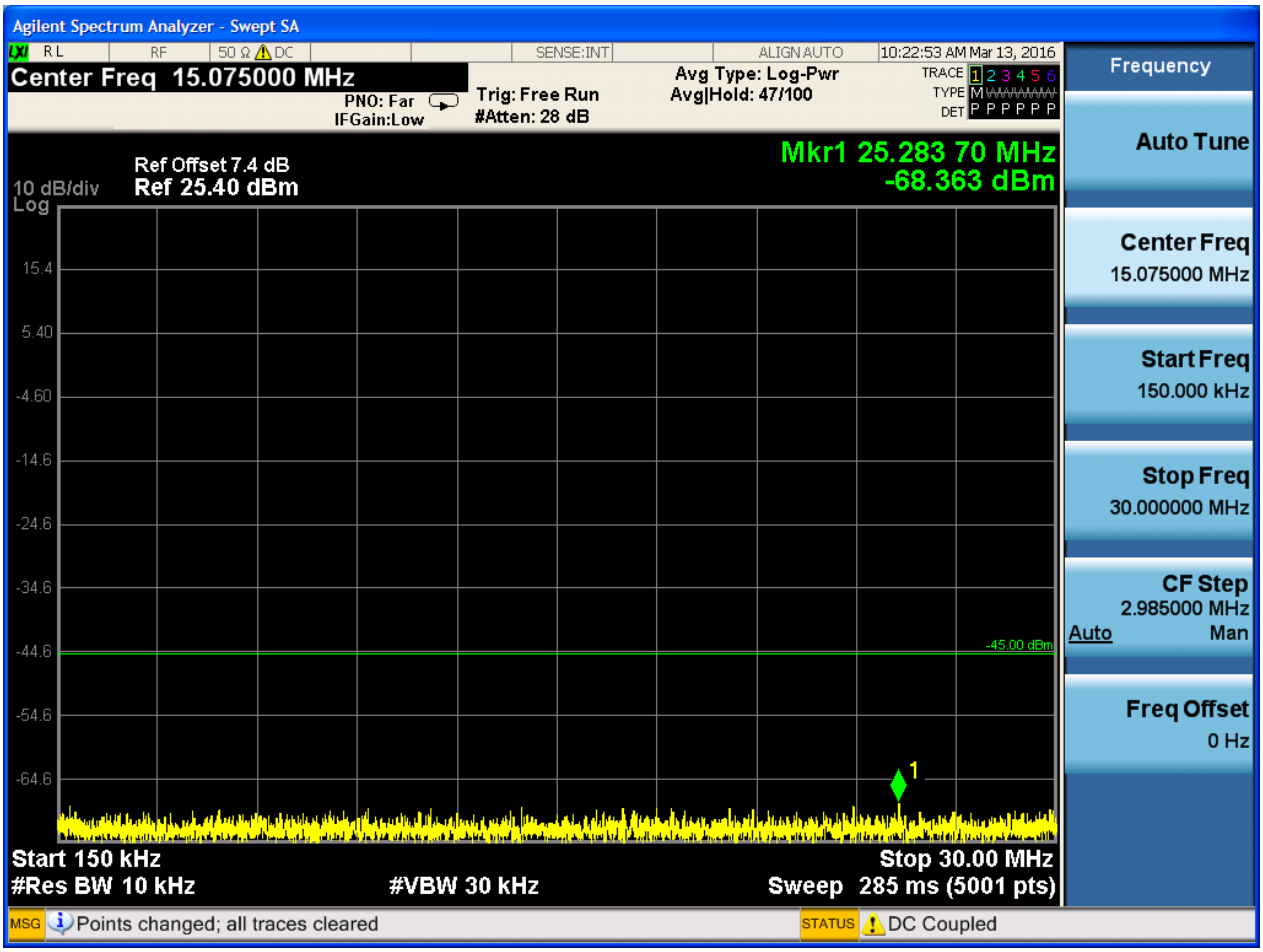

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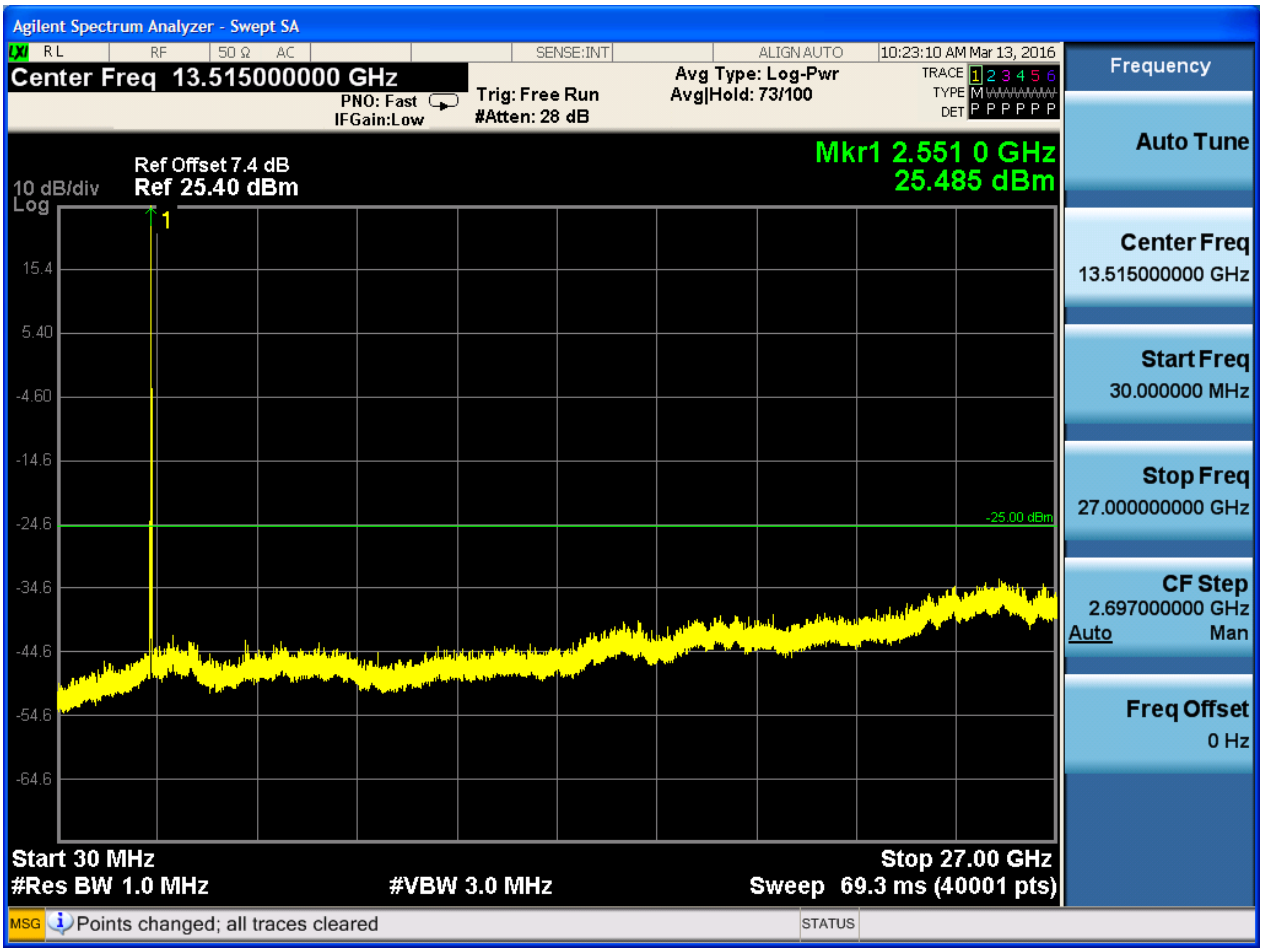

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7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

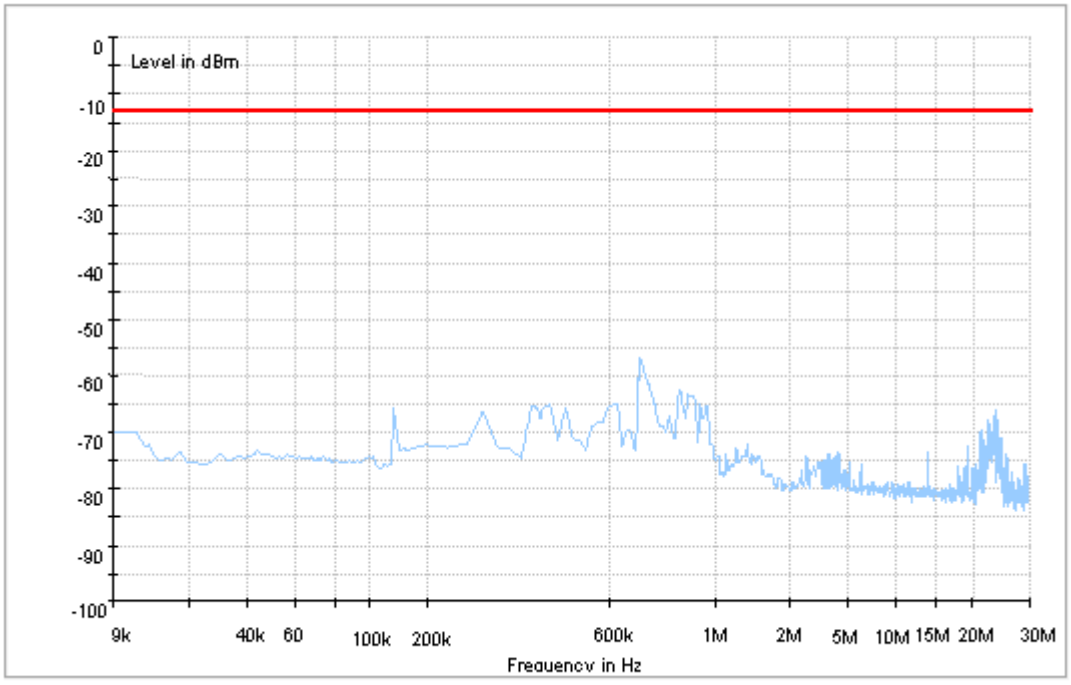
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND7

7.1.1.1 Test Bandwidth = 5



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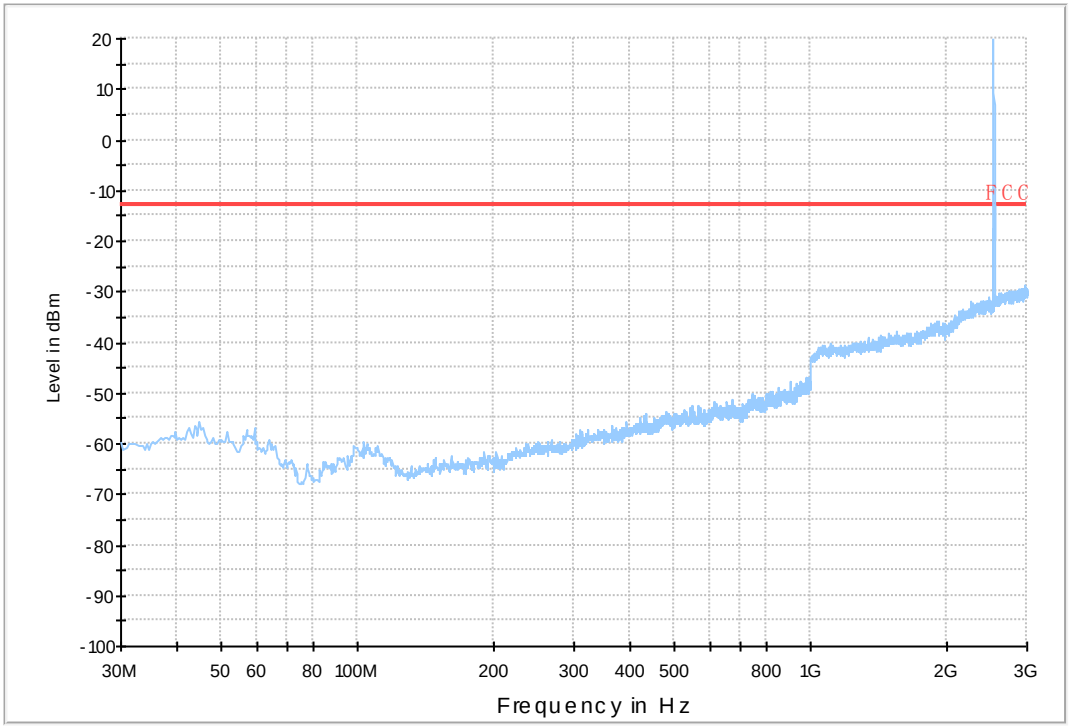
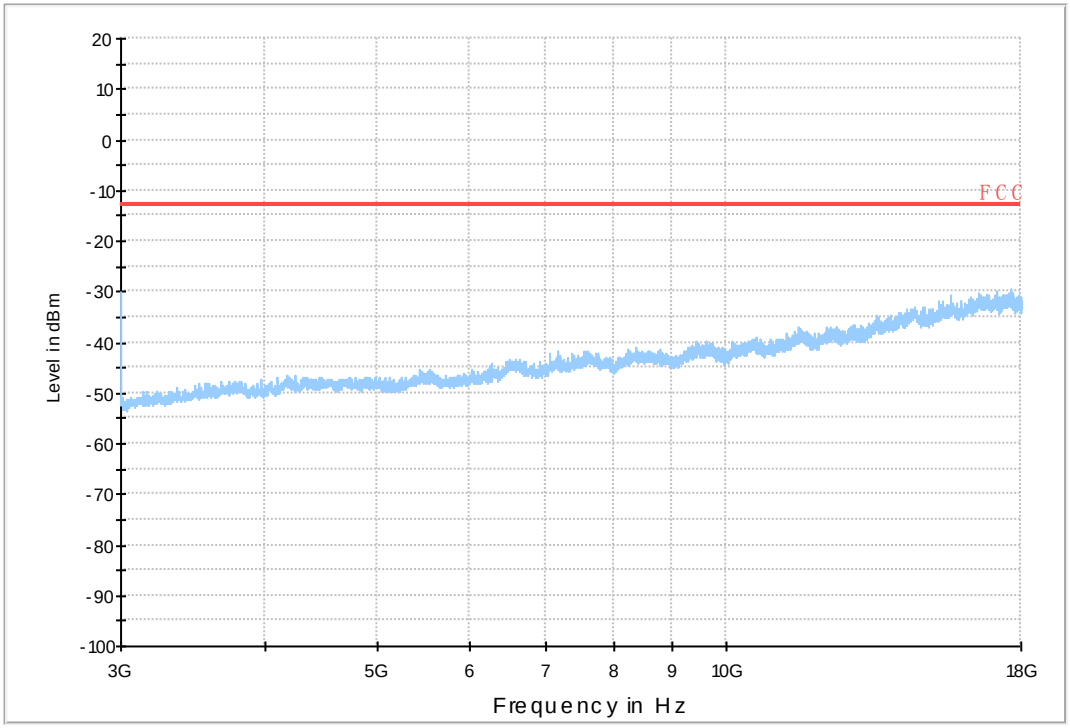
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



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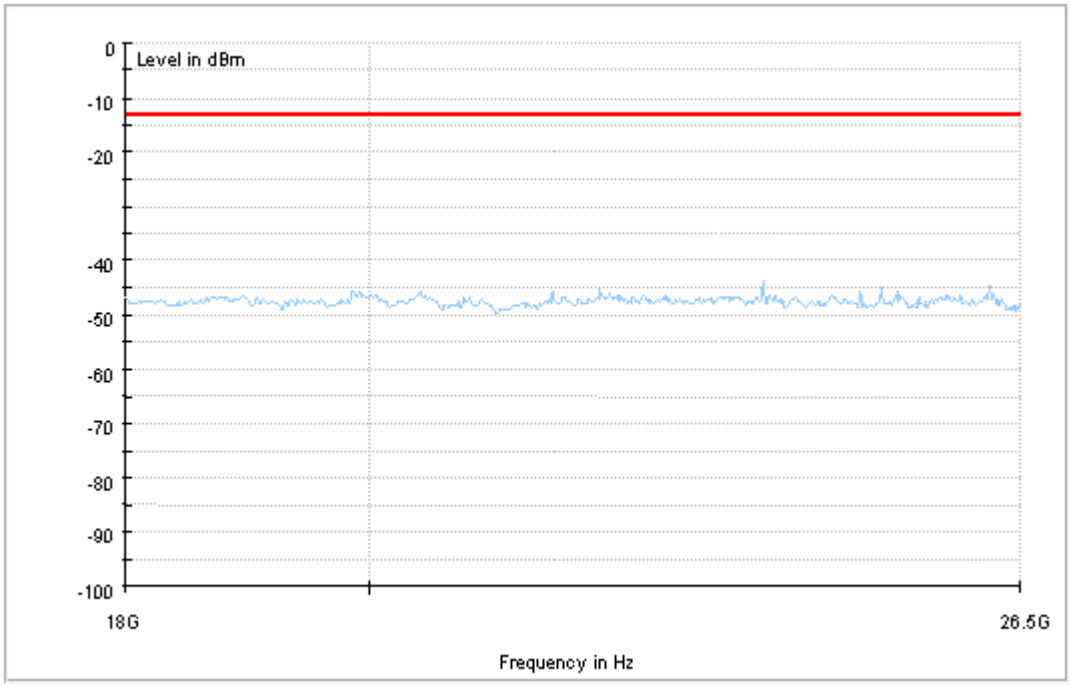

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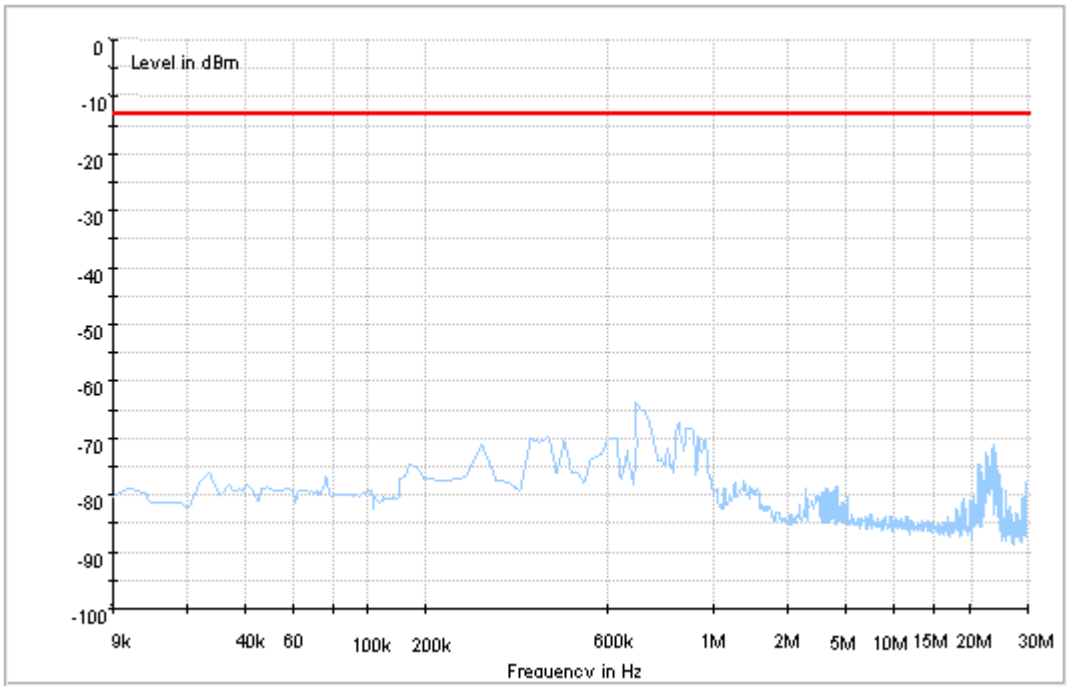
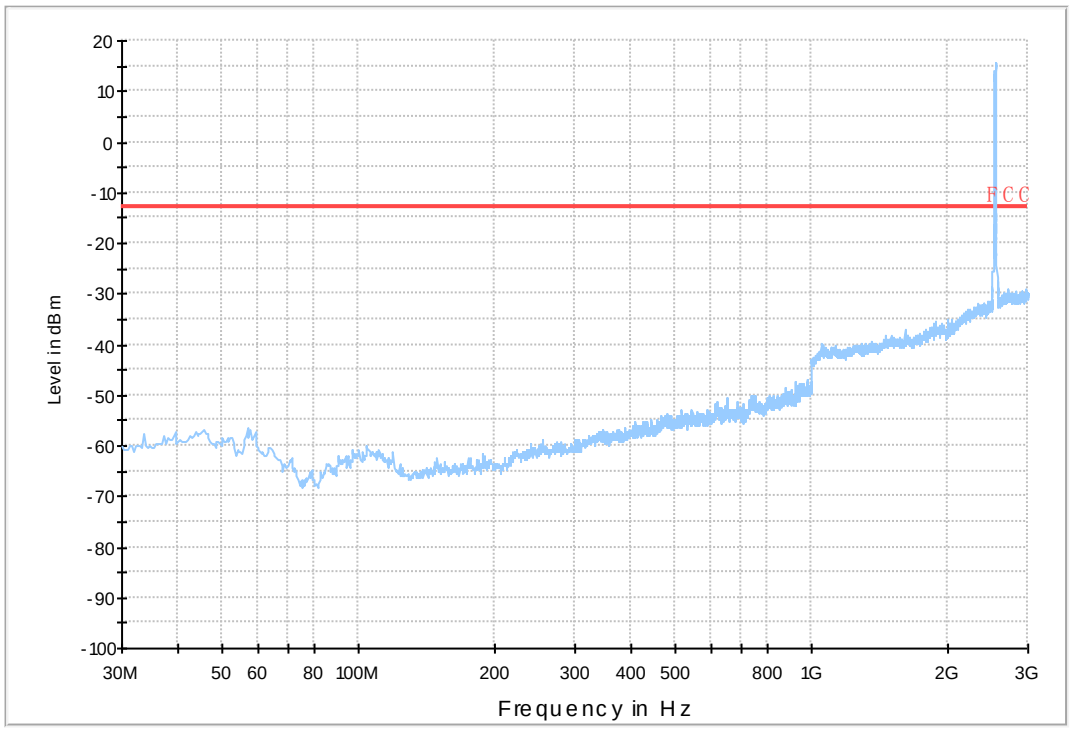
7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



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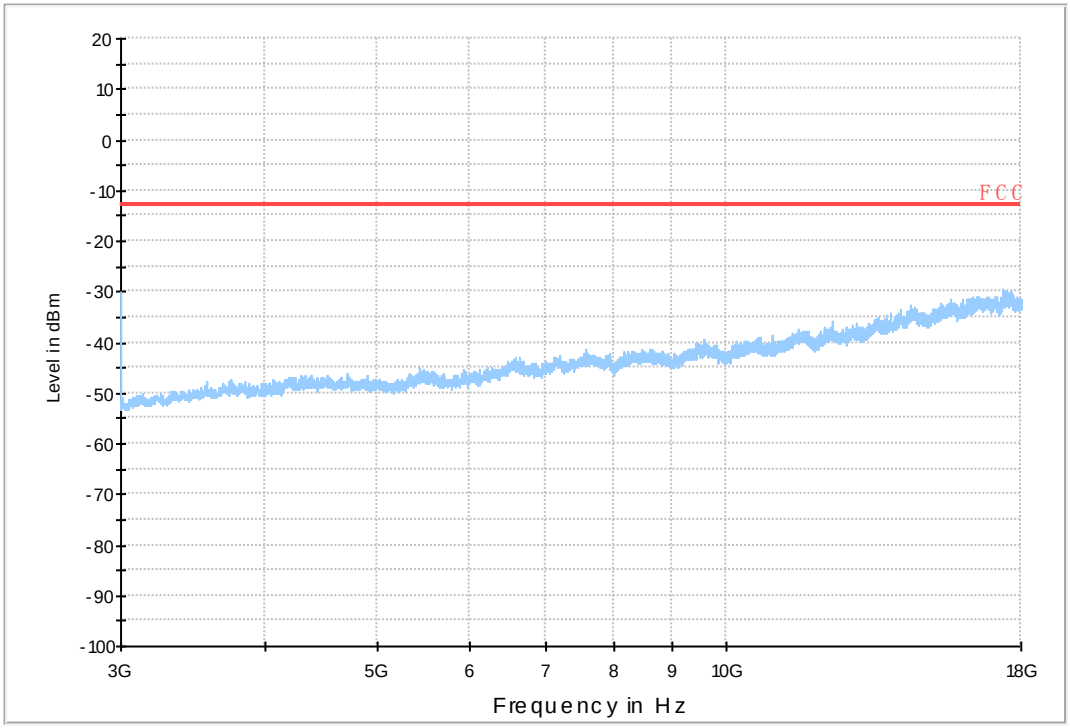
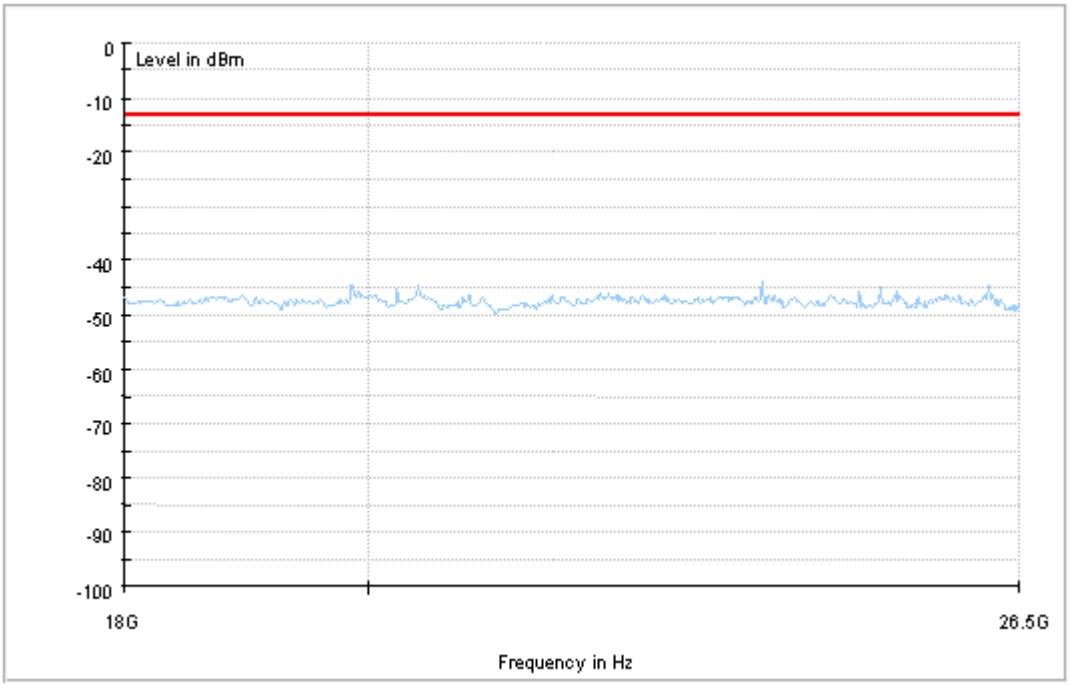
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H





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8Appendix_H: Frequency Stability

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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
BAND7	LTE/TM1	5	LCH	TN	VL	-29.21	-0.01167	PASS
					VN	-20.1	-0.00803	PASS
					VH	-7.93	-0.00317	PASS
			MCH	TN	VL	-2.3	-0.00091	PASS
					VN	-3.39	-0.00134	PASS
					VH	0.69	0.00027	PASS
			HCH	TN	VL	-2.63	-0.00102	PASS
					VN	-12.2	-0.00475	PASS
					VH	-8.53	-0.00332	PASS
		10	LCH	TN	VL	-0.26	-0.0001	PASS
					VN	4.69	0.00187	PASS
					VH	1.93	0.00077	PASS
			MCH	TN	VL	-3.2	-0.00126	PASS
					VN	-2.78	-0.0011	PASS
					VH	-3.98	-0.00157	PASS
			HCH	TN	VL	-6.9	-0.00269	PASS
					VN	0.62	0.00024	PASS
					VH	4.36	0.0017	PASS
		15	LCH	TN	VL	-8.25	-0.00329	PASS
					VN	1.96	0.00078	PASS
					VH	1.69	0.00067	PASS
			MCH	TN	VL	-6.24	-0.00246	PASS
					VN	-7.78	-0.00307	PASS
					VH	-2.43	-0.00096	PASS
			HCH	TN	VL	0.17	0.00007	PASS
					VN	1.6	0.00062	PASS
					VH	-5.87	-0.00229	PASS
		20	LCH	TN	VL	-6.25	-0.00249	PASS
					VN	-0.27	-0.00011	PASS
					VH	-5.45	-0.00217	PASS
			MCH	TN	VL	-3.25	-0.00128	PASS
					VN	-7.4	-0.00292	PASS
					VH	-6.81	-0.00269	PASS
			HCH	TN	VL	-9.1	-0.00355	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-2	-0.00078	PASS
					VH	0.24	0.00009	PASS
	LTE/TM2	5	LCH	TN	VL	-11.37	-0.00454	PASS
					VN	-8.98	-0.00359	PASS
					VH	-5.81	-0.00232	PASS
			MCH	TN	VL	0.43	0.00017	PASS
					VN	0.24	0.00009	PASS
					VH	0.83	0.00033	PASS
			HCH	TN	VL	-10.89	-0.00424	PASS
					VN	-5.64	-0.0022	PASS
					VH	-6.07	-0.00236	PASS
		10	LCH	TN	VL	-6.44	-0.00257	PASS
					VN	9.33	0.00372	PASS
					VH	-7.14	-0.00285	PASS
			MCH	TN	VL	0.77	0.0003	PASS
					VN	7.51	0.00296	PASS
					VH	42.29	0.01668	PASS
			HCH	TN	VL	6.94	0.00271	PASS
					VN	6.52	0.00254	PASS
					VH	0.89	0.00035	PASS
		15	LCH	TN	VL	7.32	0.00292	PASS
					VN	5.32	0.00212	PASS
					VH	11.03	0.0044	PASS
			MCH	TN	VL	3.49	0.00138	PASS
					VN	-8.58	-0.00338	PASS
					VH	1.73	0.00068	PASS
			HCH	TN	VL	-1.07	-0.00042	PASS
					VN	-3.63	-0.00142	PASS
					VH	-0.84	-0.00033	PASS
		20	LCH	TN	VL	-2.32	-0.00092	PASS
					VN	0.96	0.00038	PASS
					VH	-5.61	-0.00224	PASS
			MCH	TN	VL	1.43	0.00056	PASS
					VN	-2.95	-0.00116	PASS
					VH	1.07	0.00042	PASS
			HCH	TN	VL	1.62	0.00063	PASS
					VN	2.07	0.00081	PASS
					VH	0.44	0.00017	PASS

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8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	VN	-30	-6.94	-0.00277	PASS
					-20	-8.98	-0.00359	PASS
					-10	-6.64	-0.00265	PASS
					0	-12.89	-0.00515	PASS
					10	-6.39	-0.00255	PASS
					20	-7.38	-0.00295	PASS
					30	-12.87	-0.00514	PASS
					40	-23.2	-0.00927	PASS
					50	-14.25	-0.00569	PASS
			MCH	VN	-30	-5.71	-0.00225	PASS
					-20	-7.51	-0.00296	PASS
					-10	-7.07	-0.00279	PASS
					0	1.86	0.00073	PASS
					10	0.04	0.00002	PASS
					20	-2.07	-0.00082	PASS
					30	-3.22	-0.00127	PASS
					40	1.56	0.00062	PASS
					50	-4.39	-0.00173	PASS
			HCH	VN	-30	-7.81	-0.00304	PASS
					-20	-4.46	-0.00174	PASS
					-10	-2.23	-0.00087	PASS
					0	-0.64	-0.00025	PASS
					10	0.17	0.00007	PASS
					20	43.22	0.01683	PASS
					30	-3.52	-0.00137	PASS
					40	-1.36	-0.00053	PASS
					50	-6.75	-0.00263	PASS
		10	LCH	VN	-30	-0.17	-0.00007	PASS
					-20	0.29	0.00012	PASS
					-10	-3.71	-0.00148	PASS
					0	3.95	0.00158	PASS
					10	-8.3	-0.00331	PASS
					20	-2.92	-0.00117	PASS
					30	-5.97	-0.00238	PASS
					40	-6.07	-0.00242	PASS
					50	-2.03	-0.00081	PASS
			MCH	VN	-30	-0.69	-0.00027	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-3.59	-0.00142	PASS
					-10	0.29	0.00011	PASS
					0	2.96	0.00117	PASS
					10	-1.29	-0.00051	PASS
					20	-3.52	-0.00139	PASS
					30	-0.93	-0.00037	PASS
					40	4.05	0.0016	PASS
					50	-5.22	-0.00206	PASS
			HCH	VN	-30	1.52	0.00059	PASS
					-20	-5.88	-0.00229	PASS
					-10	1.77	0.00069	PASS
					0	1.4	0.00055	PASS
					10	-1.77	-0.00069	PASS
					20	1.39	0.00054	PASS
					30	-2.03	-0.00079	PASS
					40	7.54	0.00294	PASS
					50	-0.36	-0.00014	PASS
		15	LCH	VN	-30	0.97	0.00039	PASS
					-20	0.19	0.00008	PASS
					-10	2.33	0.00093	PASS
					0	7.27	0.0029	PASS
					10	-3.03	-0.00121	PASS
					20	0.69	0.00028	PASS
					30	-2.07	-0.00083	PASS
					40	1.23	0.00049	PASS
					50	-0.39	-0.00016	PASS
			MCH	VN	-30	-3.22	-0.00127	PASS
					-20	-0.33	-0.00013	PASS
					-10	-0.43	-0.00017	PASS
					0	3.4	0.00134	PASS
					10	2.86	0.00113	PASS
					20	-1.53	-0.0006	PASS
					30	-1.92	-0.00076	PASS
					40	-3.95	-0.00156	PASS
					50	-2.65	-0.00105	PASS
			HCH	VN	-30	-3.56	-0.00139	PASS
					-20	2.25	0.00088	PASS
					-10	-0.97	-0.00038	PASS
					0	2.86	0.00112	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	2.4	0.00094	PASS
					20	-4.61	-0.0018	PASS
					30	0.24	0.00009	PASS
					40	-2.39	-0.00093	PASS
					50	-3.78	-0.00148	PASS
		20	LCH	VN	-30	-5.74	-0.00229	PASS
					-20	-0.17	-0.00007	PASS
					-10	-5.42	-0.00216	PASS
					0	-0.46	-0.00018	PASS
					10	-0.53	-0.00021	PASS
					20	-6.38	-0.00254	PASS
					30	1.62	0.00065	PASS
					40	-3.16	-0.00126	PASS
					50	-3.39	-0.00135	PASS
			MCH	VN	-30	-2.89	-0.00114	PASS
					-20	-2.22	-0.00088	PASS
					-10	-1.34	-0.00053	PASS
					0	-4.76	-0.00188	PASS
					10	-1.44	-0.00057	PASS
					20	3.95	0.00156	PASS
					30	-1.75	-0.00069	PASS
					40	-2.42	-0.00095	PASS
					50	1.83	0.00072	PASS
			HCH	VN	-30	-2.26	-0.00088	PASS
					-20	0.16	0.00006	PASS
					-10	-3.28	-0.00128	PASS
					0	-4.45	-0.00174	PASS
					10	-5.11	-0.002	PASS
					20	-4.94	-0.00193	PASS
					30	2.13	0.00083	PASS
					40	-3.73	-0.00146	PASS
					50	-2.13	-0.00083	PASS
	LTE/TM2	5	LCH	VN	-30	-5.85	-0.00234	PASS
					-20	-2.13	-0.00085	PASS
					-10	-17.98	-0.00718	PASS
					0	-11.5	-0.0046	PASS
					10	-1.46	-0.00058	PASS
					20	-11.6	-0.00464	PASS
					30	-5.64	-0.00225	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-25.48	-0.01018	PASS
					50	-9.2	-0.00368	PASS
			MCH	VN	-30	-0.14	-0.00006	PASS
					-20	2.93	0.00116	PASS
					-10	-1.83	-0.00072	PASS
					0	-6.08	-0.0024	PASS
					10	-1.37	-0.00054	PASS
					20	-2.53	-0.001	PASS
					30	3.39	0.00134	PASS
					40	-3.42	-0.00135	PASS
					50	0.51	0.0002	PASS
			HCH	VN	-30	-4.22	-0.00164	PASS
					-20	0.79	0.00031	PASS
					-10	-0.6	-0.00023	PASS
					0	-3.38	-0.00132	PASS
					10	-6.98	-0.00272	PASS
					20	-2.66	-0.00104	PASS
					30	-5.01	-0.00195	PASS
					40	2.72	0.00106	PASS
					50	-3.83	-0.00149	PASS
		10	LCH	VN	-30	2.43	0.00097	PASS
					-20	-4.65	-0.00186	PASS
					-10	-2.46	-0.00098	PASS
					0	-9.87	-0.00394	PASS
					10	2.75	0.0011	PASS
					20	-2.53	-0.00101	PASS
					30	4.12	0.00164	PASS
					40	-3.09	-0.00123	PASS
					50	3.2	0.00128	PASS
			MCH	VN	-30	4.26	0.00168	PASS
					-20	0.49	0.00019	PASS
					-10	3.62	0.00143	PASS
					0	-1.47	-0.00058	PASS
					10	4.61	0.00182	PASS
					20	-1.86	-0.00073	PASS
					30	-0.93	-0.00037	PASS
					40	-3.36	-0.00133	PASS
					50	3.2	0.00126	PASS
			HCH	VN	-30	4.25	0.00166	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.26	0.0001	PASS
					-10	5.39	0.0021	PASS
					0	4.29	0.00167	PASS
					10	5.92	0.00231	PASS
					20	0.31	0.00012	PASS
					30	2.57	0.001	PASS
					40	-5.11	-0.00199	PASS
					50	-3.33	-0.0013	PASS
		15	LCH	VN	-30	-2.26	-0.0009	PASS
					-20	-29.27	-0.01167	PASS
					-10	-6.81	-0.00272	PASS
					0	-6.79	-0.00271	PASS
					10	-10.79	-0.0043	PASS
					20	-2.89	-0.00115	PASS
					30	-5.02	-0.002	PASS
					40	-11.34	-0.00452	PASS
					50	-4.35	-0.00173	PASS
			MCH	VN	-30	0.04	0.00002	PASS
					-20	1.46	0.00058	PASS
					-10	-2.2	-0.00087	PASS
					0	-0.34	-0.00013	PASS
					10	-0.92	-0.00036	PASS
					20	0.33	0.00013	PASS
					30	-1.44	-0.00057	PASS
					40	-1.73	-0.00068	PASS
					50	-0.63	-0.00025	PASS
			HCH	VN	-30	1.23	0.00048	PASS
					-20	-1.44	-0.00056	PASS
					-10	-2.1	-0.00082	PASS
					0	-1.62	-0.00063	PASS
					10	1.03	0.0004	PASS
					20	-0.86	-0.00034	PASS
					30	0.3	0.00012	PASS
					40	4.52	0.00176	PASS
					50	-3.45	-0.00135	PASS
		20	LCH	VN	-30	1.83	0.00073	PASS
					-20	-3.1	-0.00124	PASS
					-10	-2.2	-0.00088	PASS
					0	-2.05	-0.00082	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-0.29	-0.00012	PASS
					20	-1.39	-0.00055	PASS
					30	2.95	0.00118	PASS
					40	-1.37	-0.00055	PASS
					50	1.75	0.0007	PASS
			MCH	VN	-30	-5.65	-0.00223	PASS
					-20	-2.7	-0.00107	PASS
					-10	-0.51	-0.0002	PASS
					0	-3.23	-0.00127	PASS
					10	-0.07	-0.00003	PASS
					20	-3.85	-0.00152	PASS
					30	-2.39	-0.00094	PASS
					40	-2.65	-0.00105	PASS
					50	-1.56	-0.00062	PASS
			HCH	VN	-30	5.52	0.00216	PASS
					-20	-4.19	-0.00164	PASS
					-10	-0.64	-0.00025	PASS
					0	-1.92	-0.00075	PASS
					10	-4.56	-0.00178	PASS
					20	0.37	0.00014	PASS
					30	-1.9	-0.00074	PASS
					40	-4.56	-0.00178	PASS
					50	0.14	0.00005	PASS

END

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