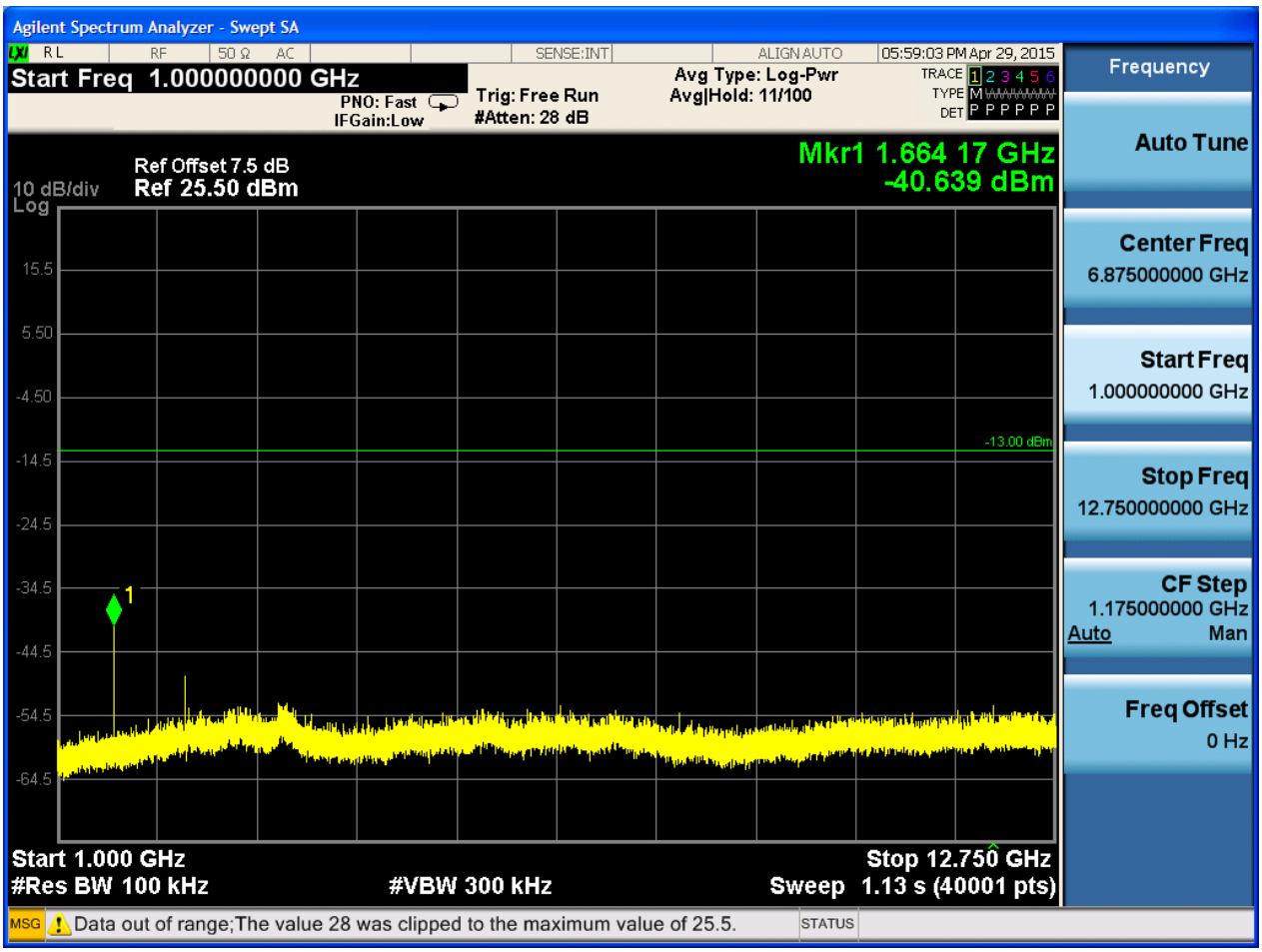

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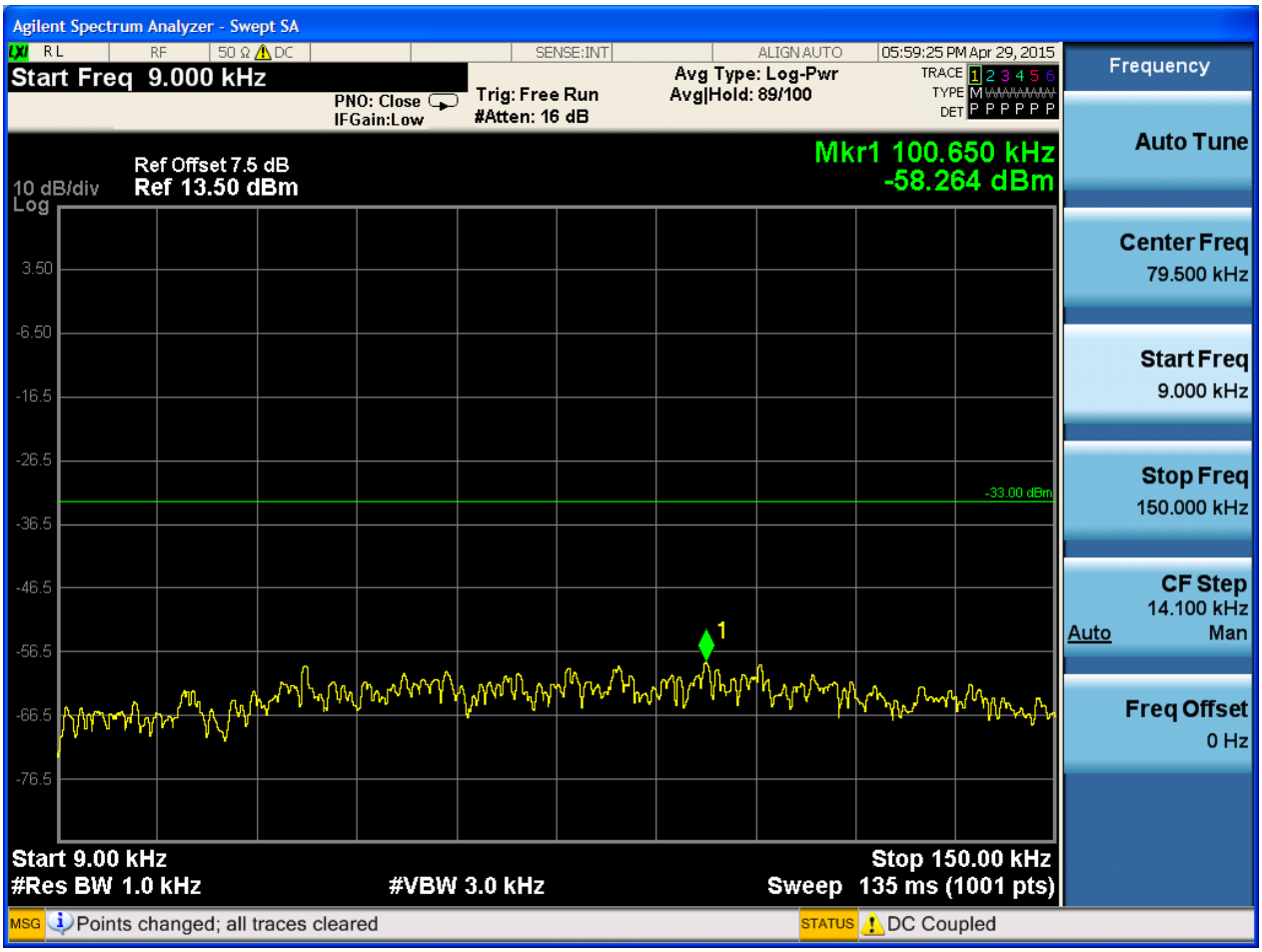
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0



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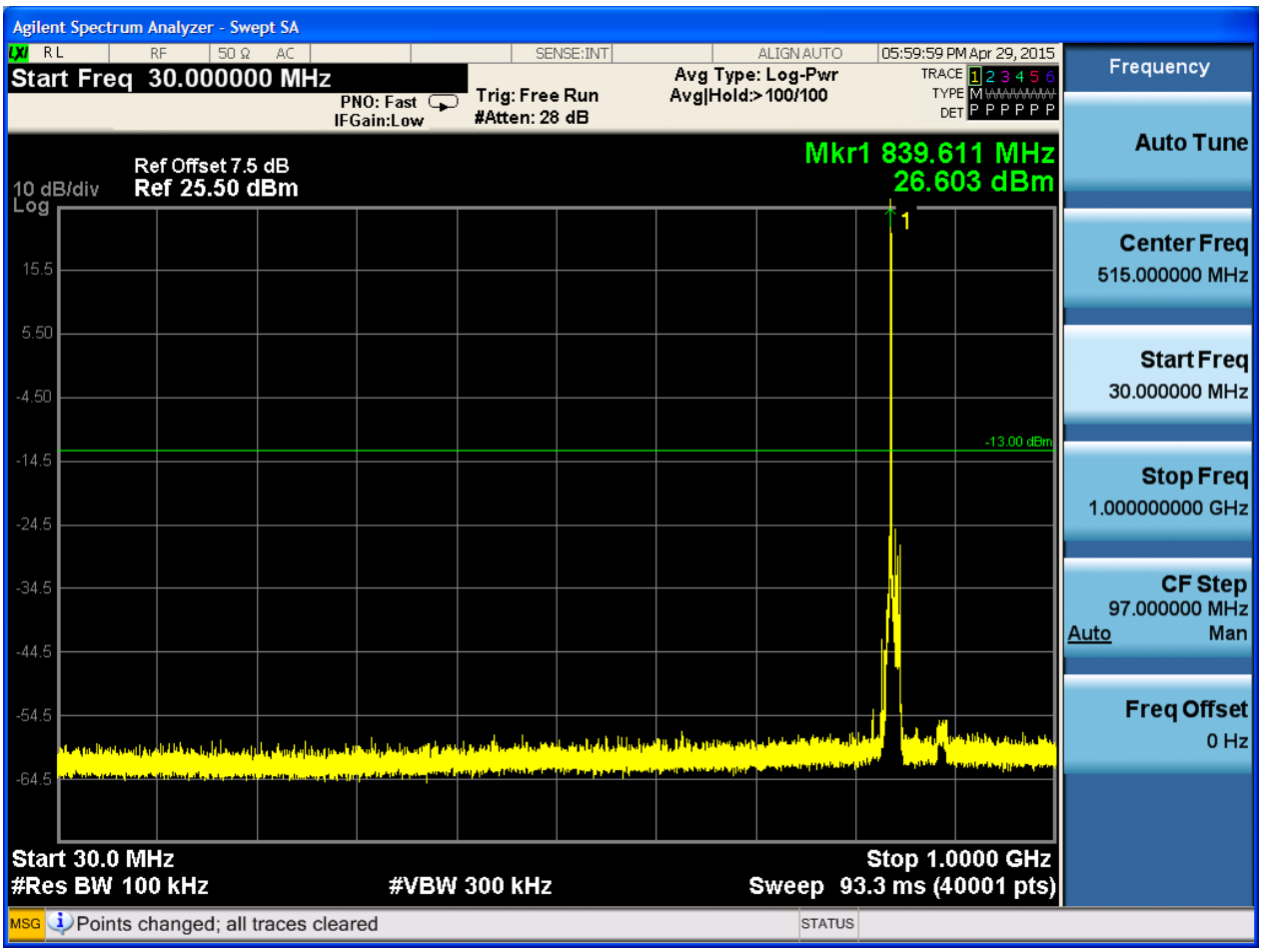

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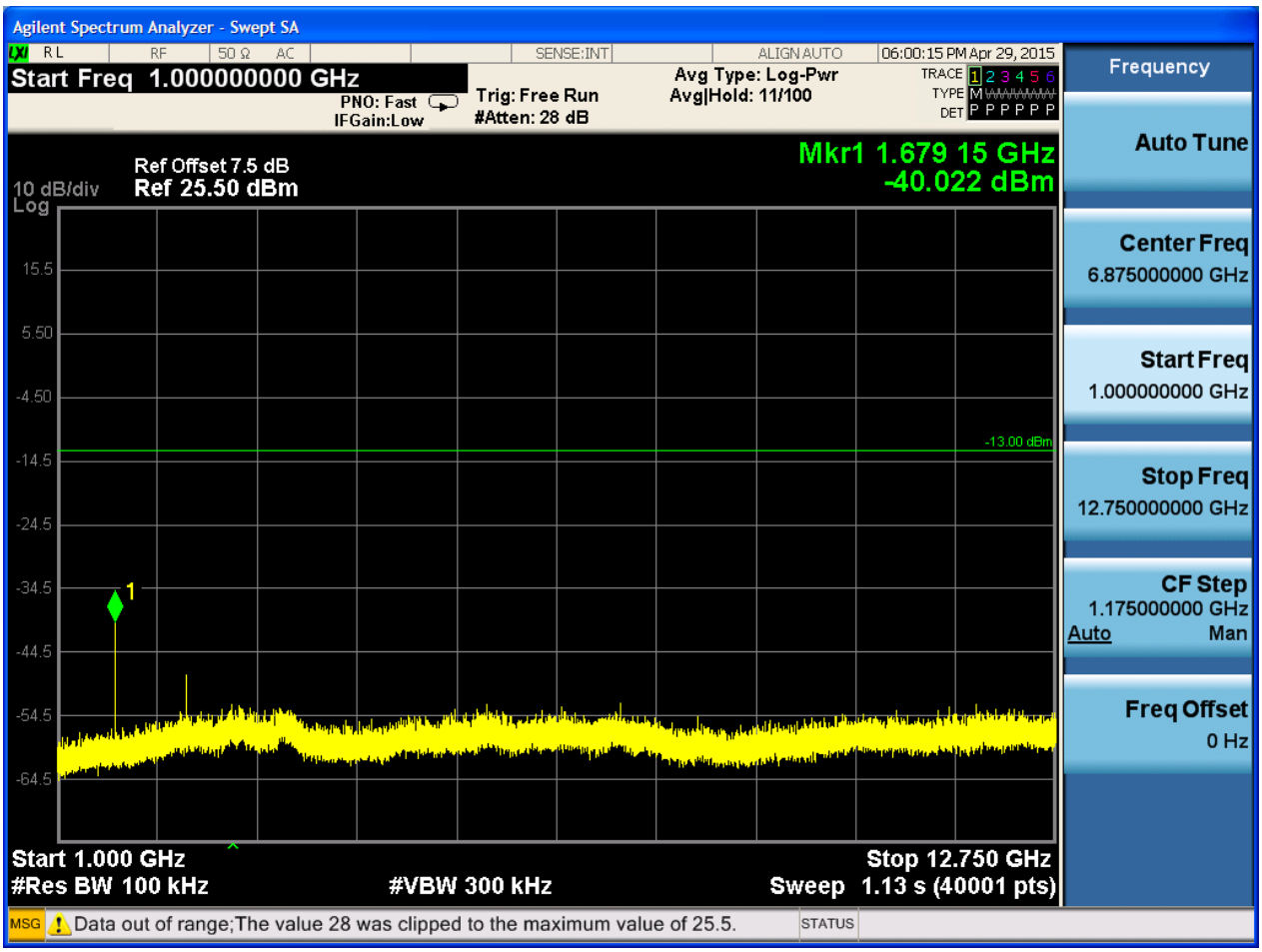

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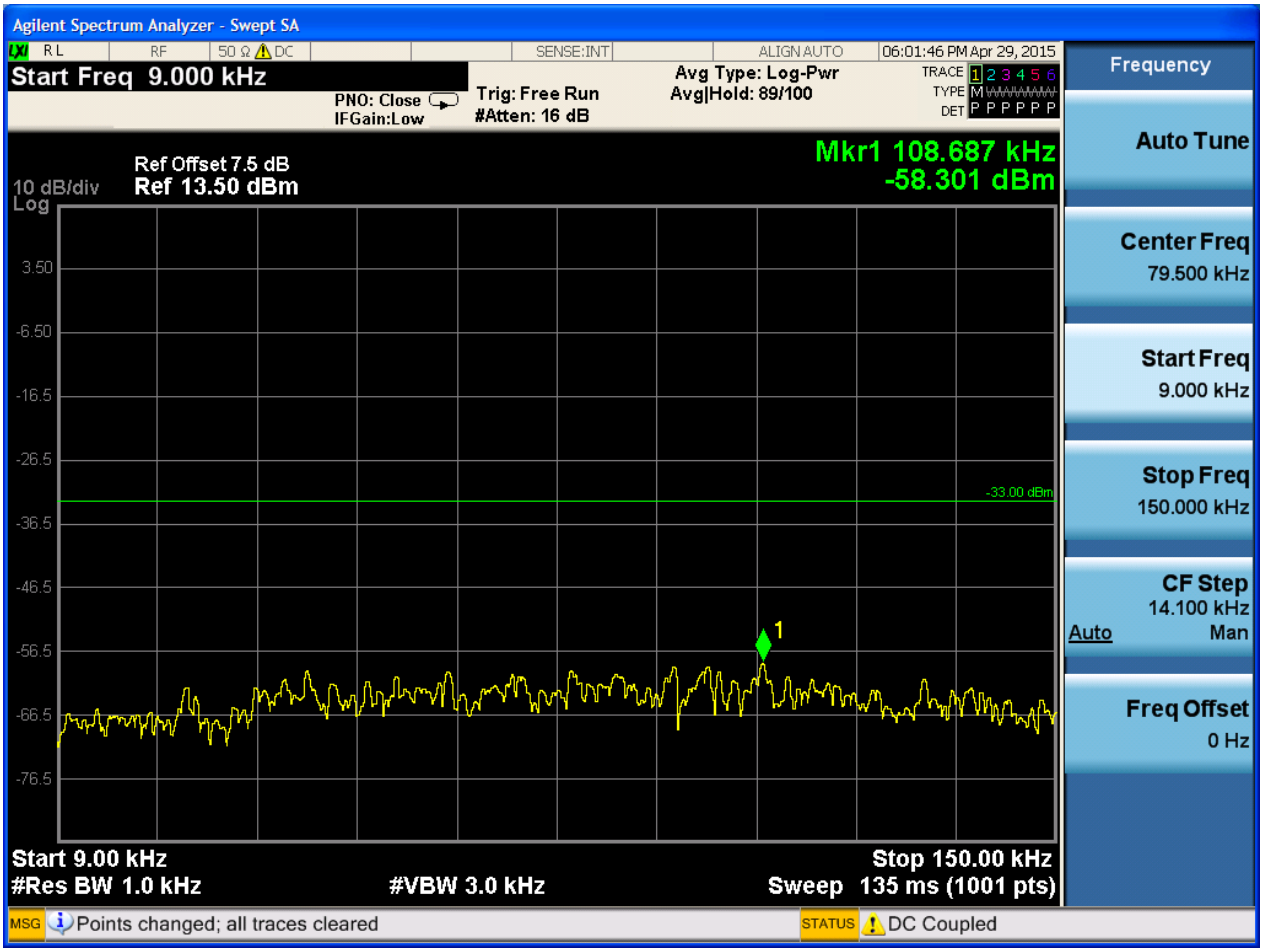
6.1.1.1.5 Test Bandwidth = 15

6.1.1.1.5.1 Test Channel = LCH

6.1.1.1.5.1.1 Test RB = RB1#0



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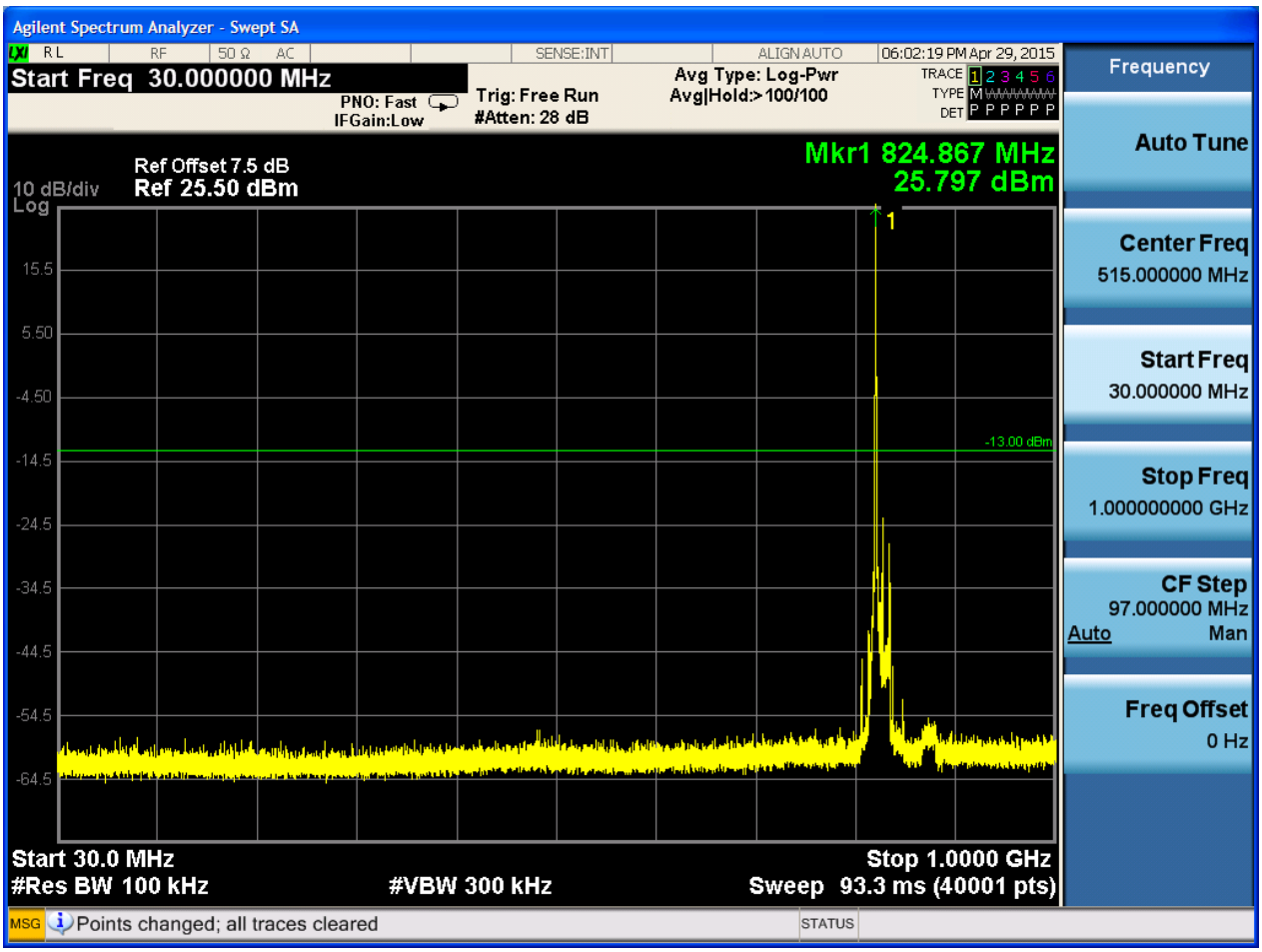

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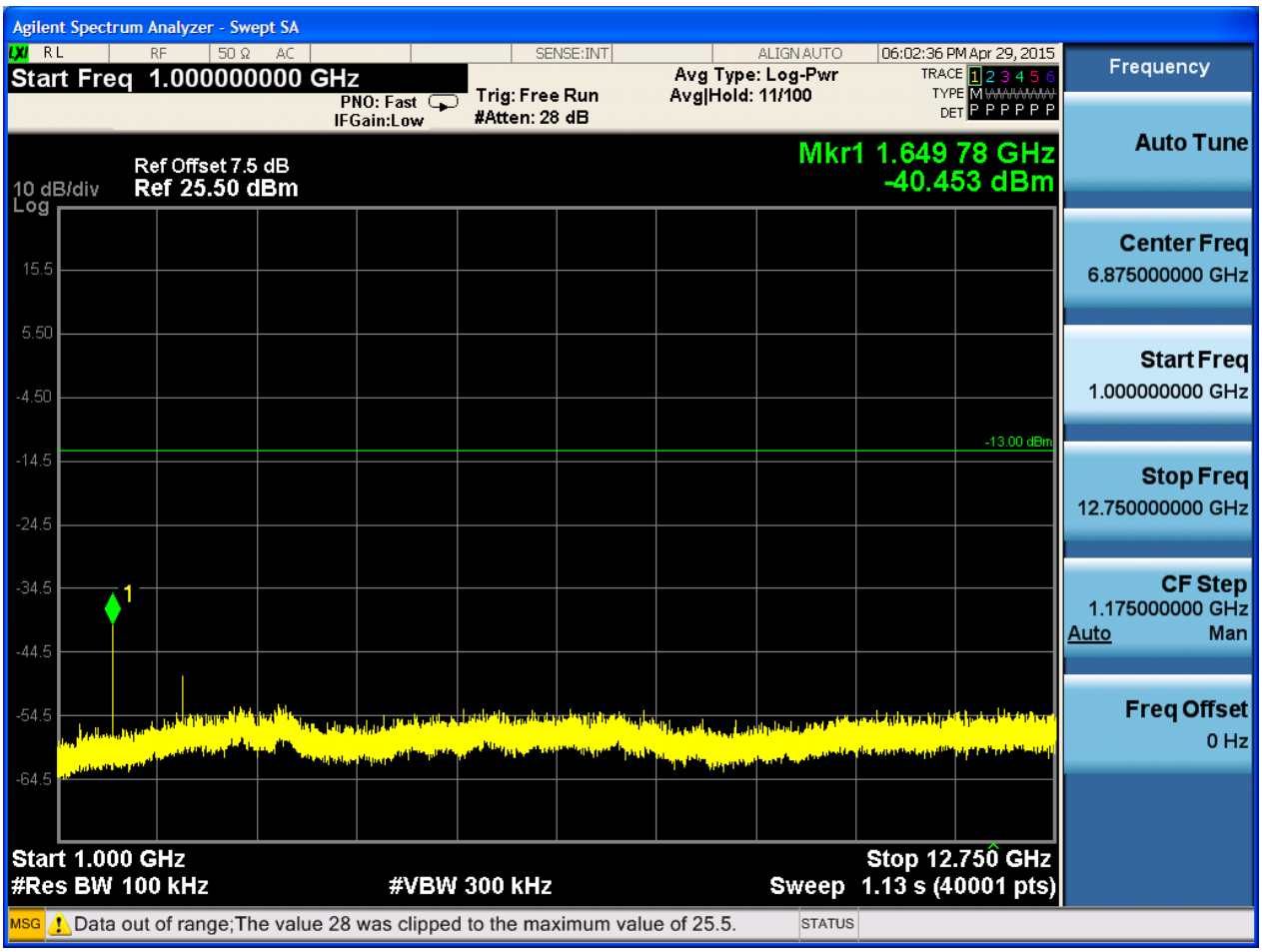

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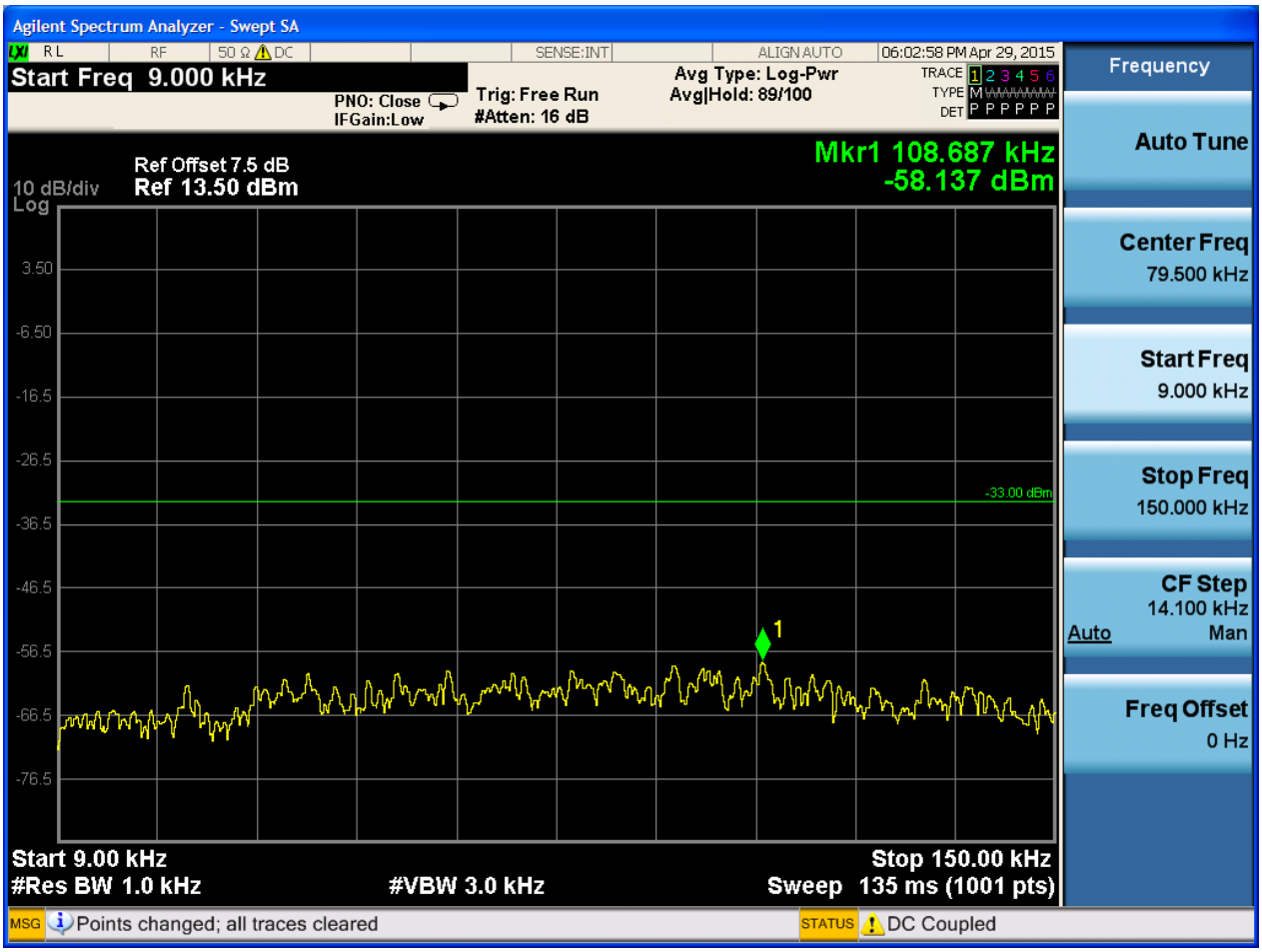
6.1.1.1.5.2 Test Channel = MCH

6.1.1.1.5.2.1 Test RB = RB1#0



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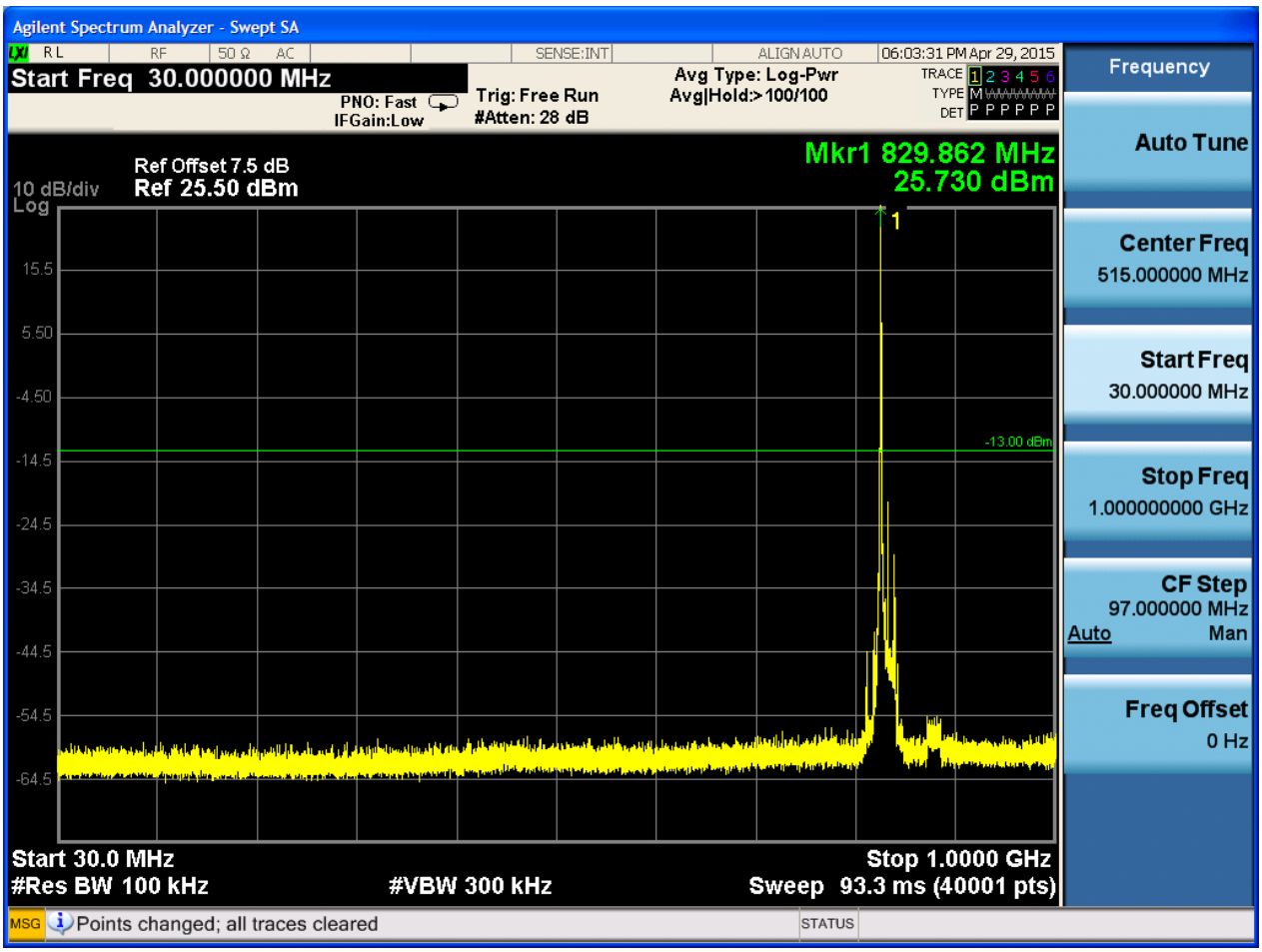

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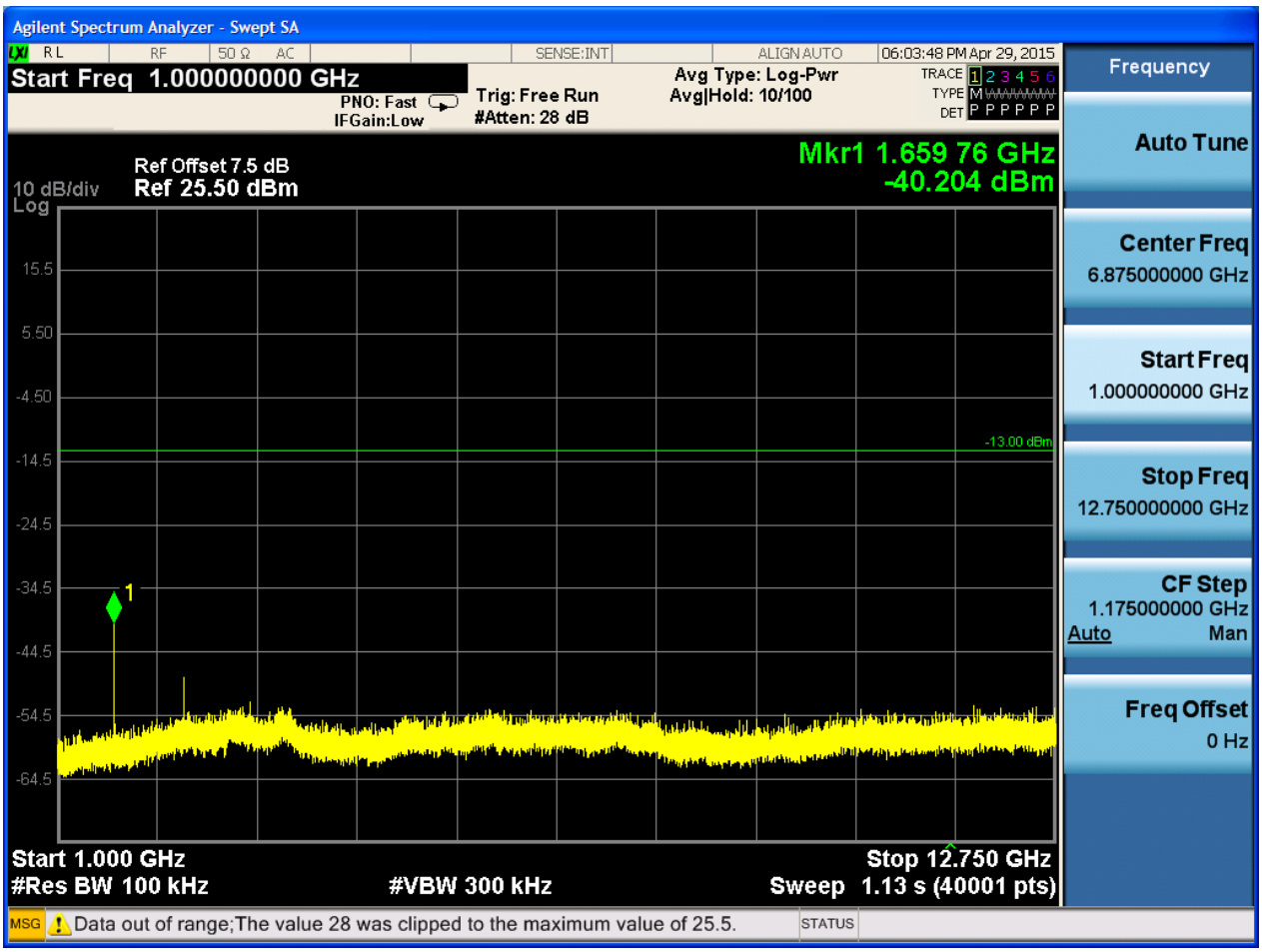

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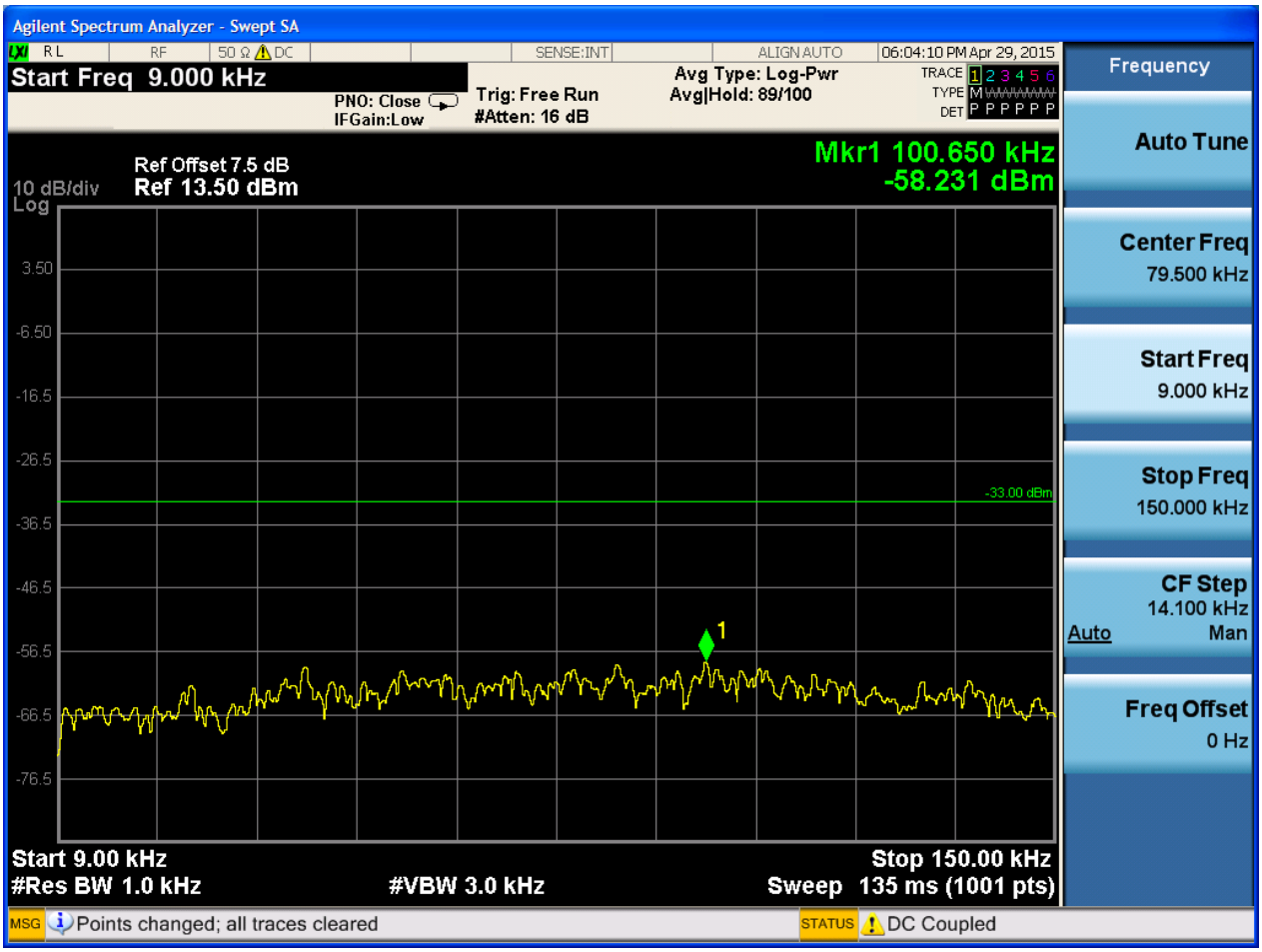
6.1.1.1.5.3 Test Channel = HCH

6.1.1.1.5.3.1 Test RB = RB1#0



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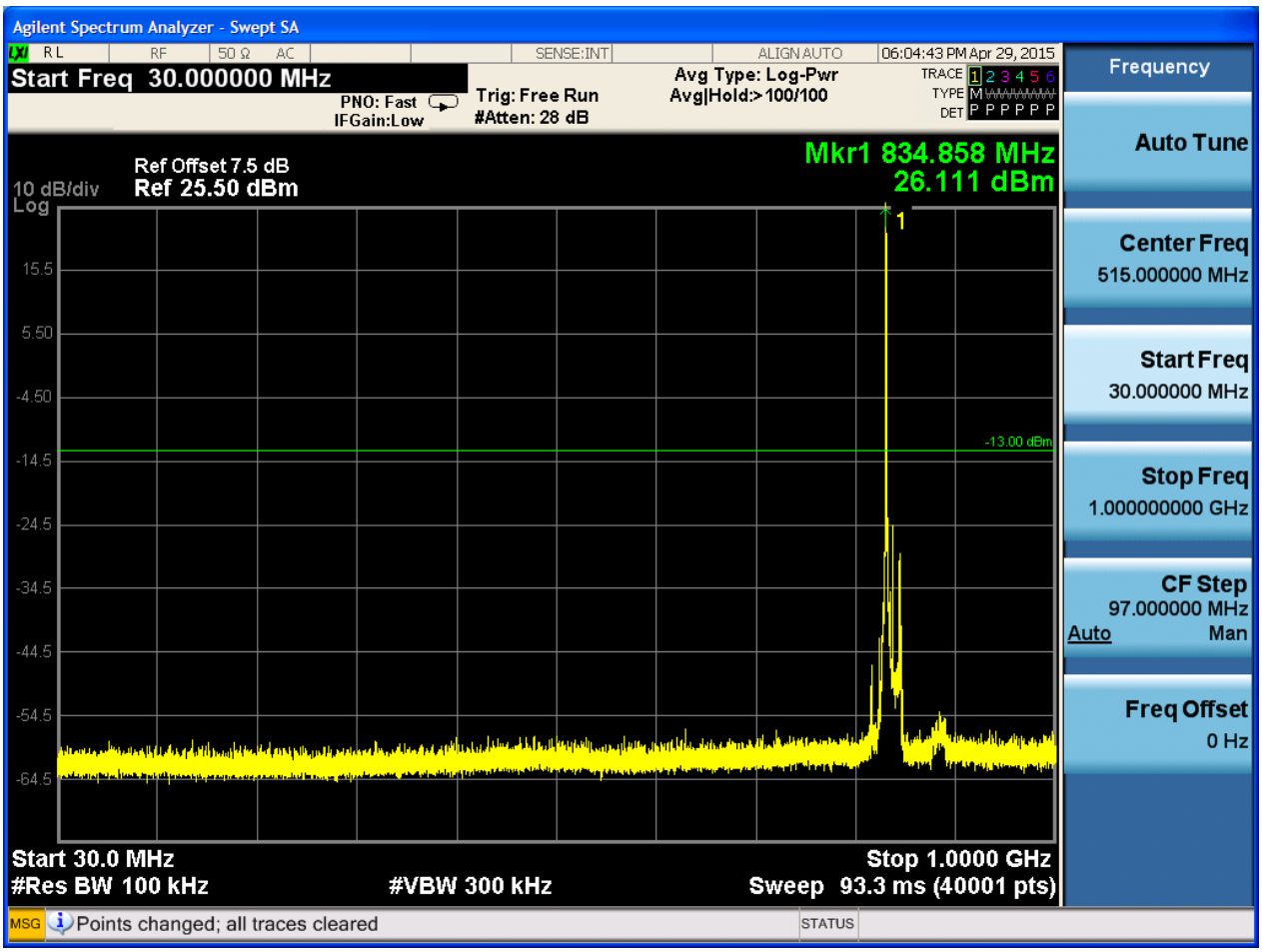
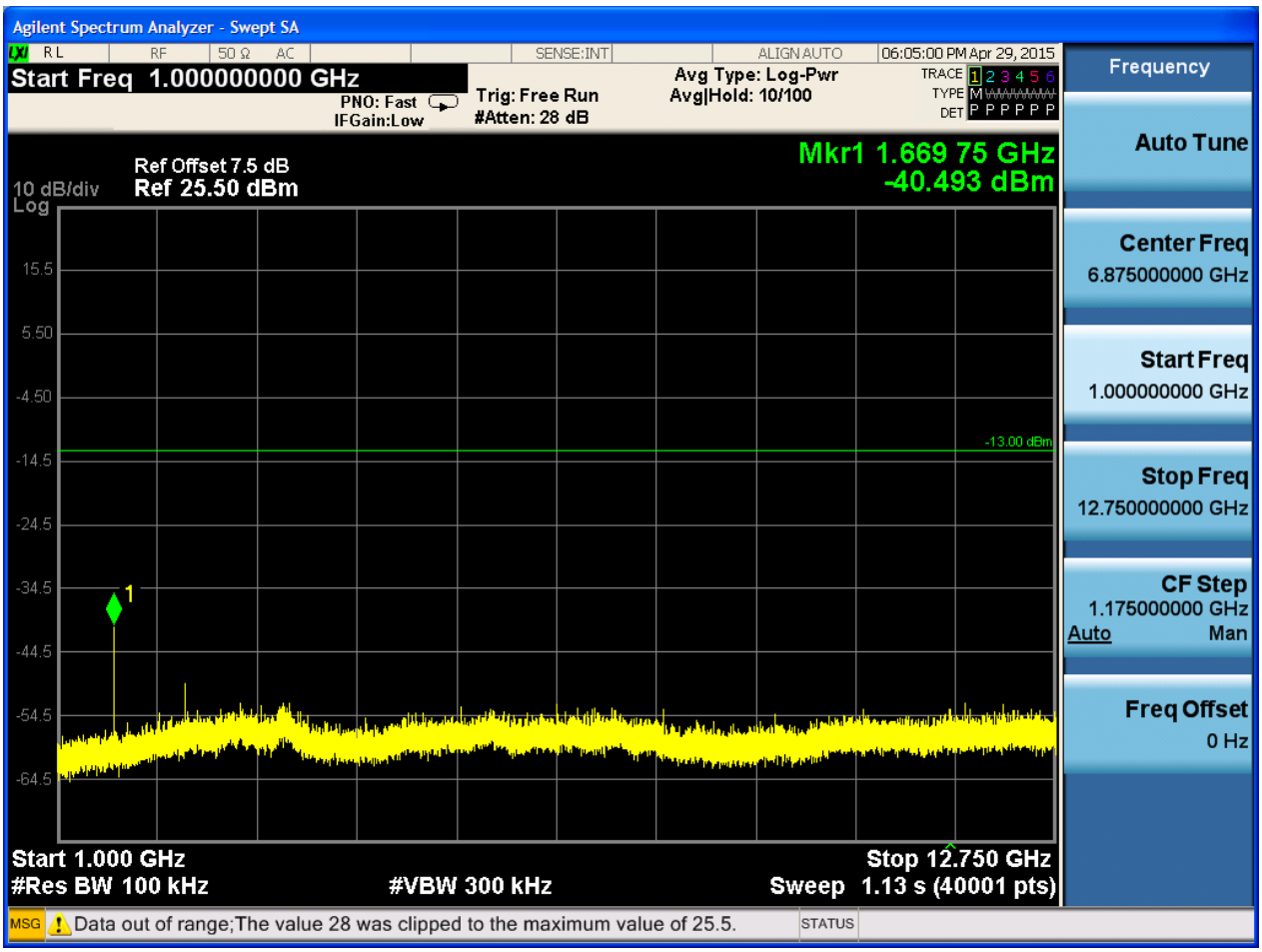

Agilent Spectrum Analyzer - Swept SA
Start Freq 30.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
06:04:43 PM Apr 29, 2015
Ref Offset 7.5 dB
10 dB/div
Ref 25.50 dBm
Log
Mkr1 834.858 MHz
26.111 dBm
-13.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.3 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz



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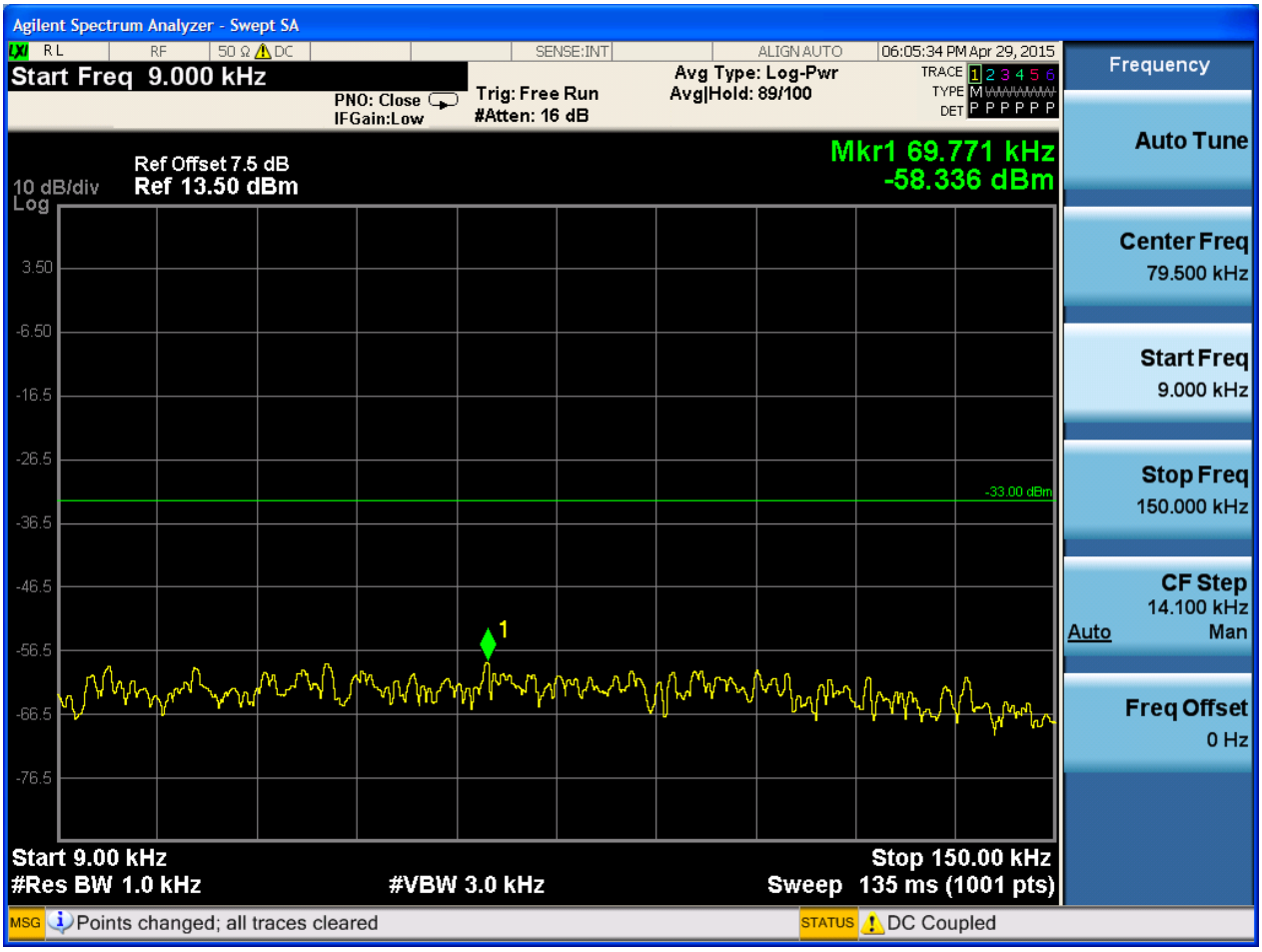
6.1.1.2 Test Mode = LTE/TM2

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



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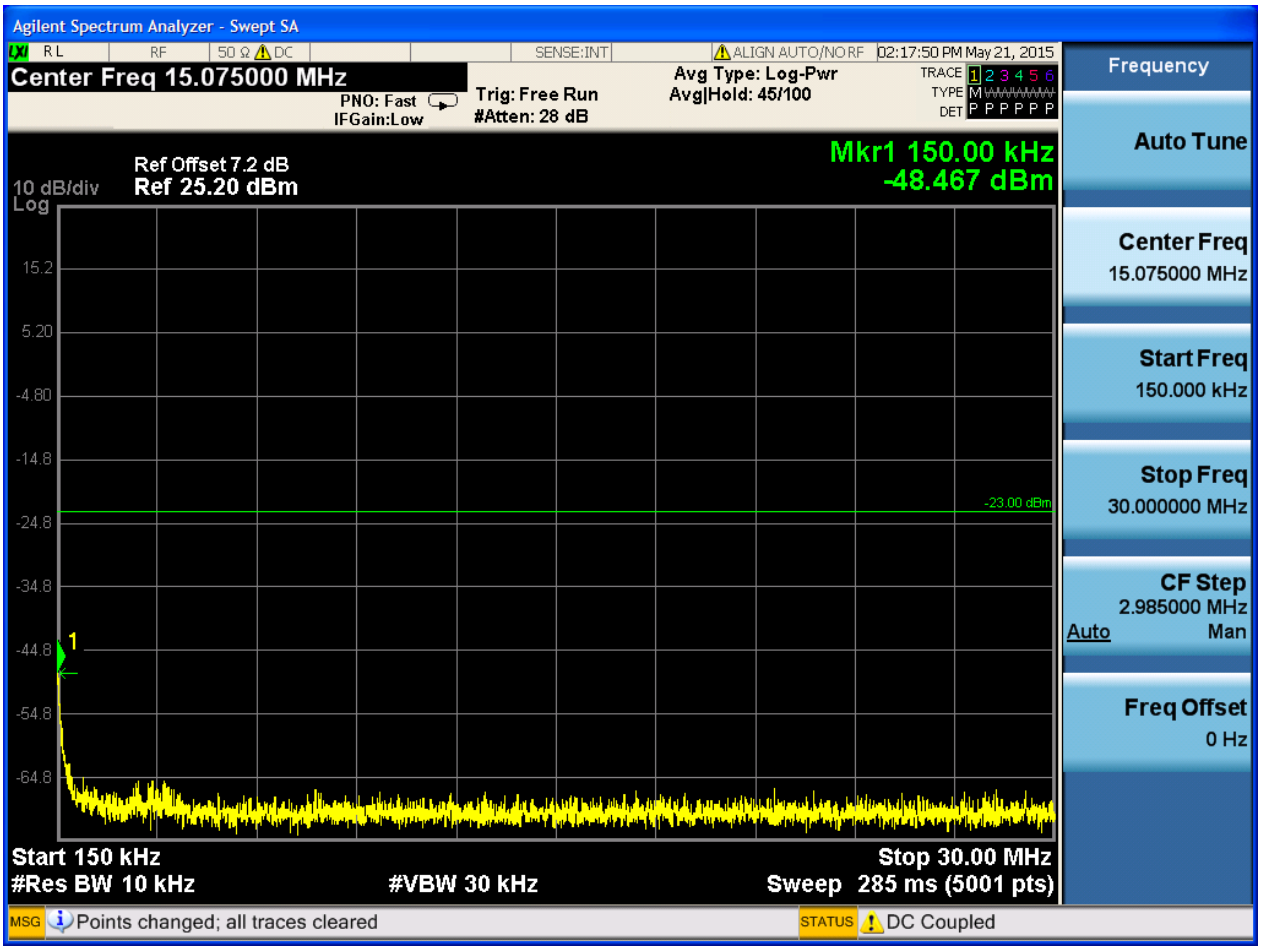

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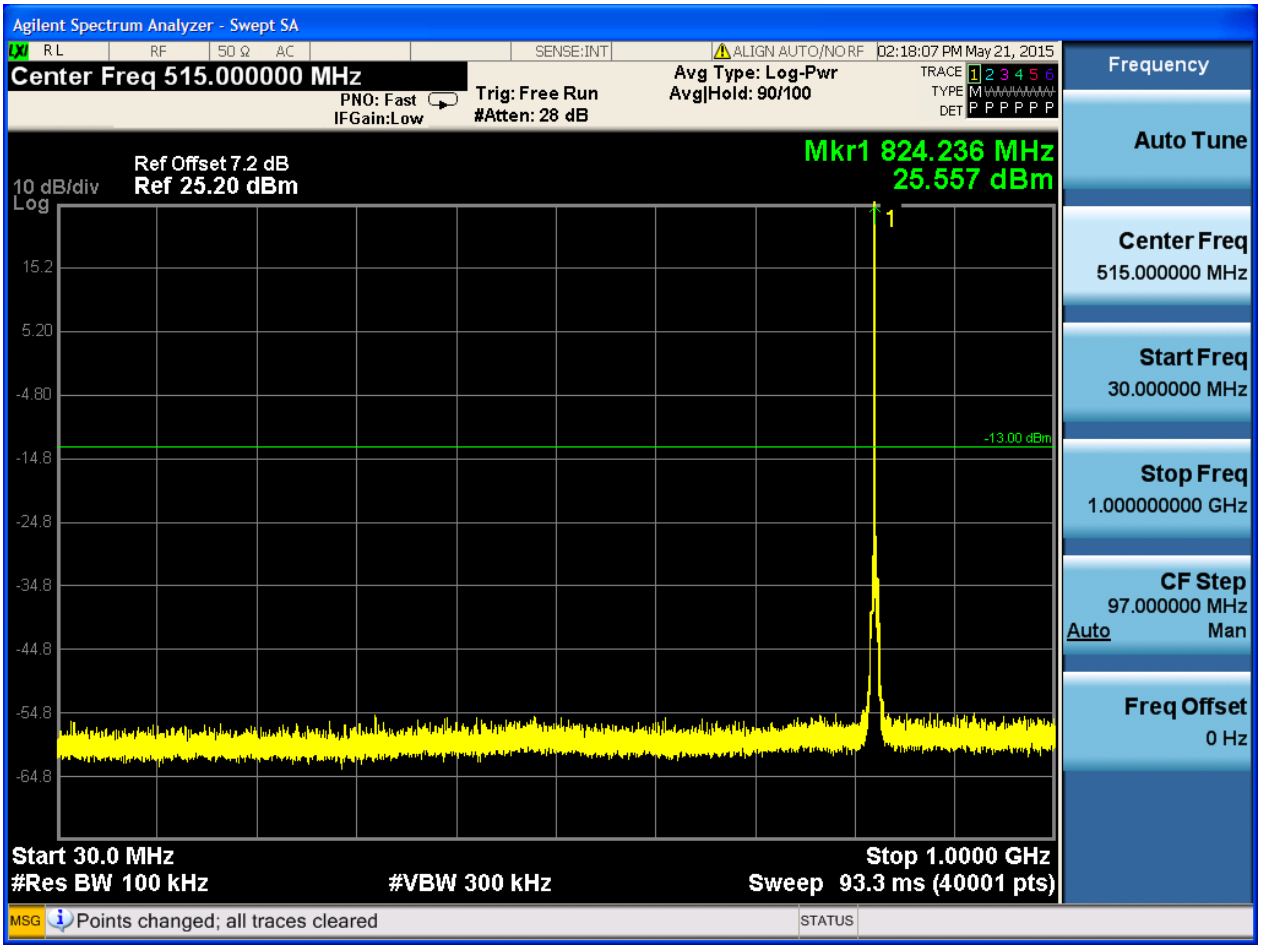

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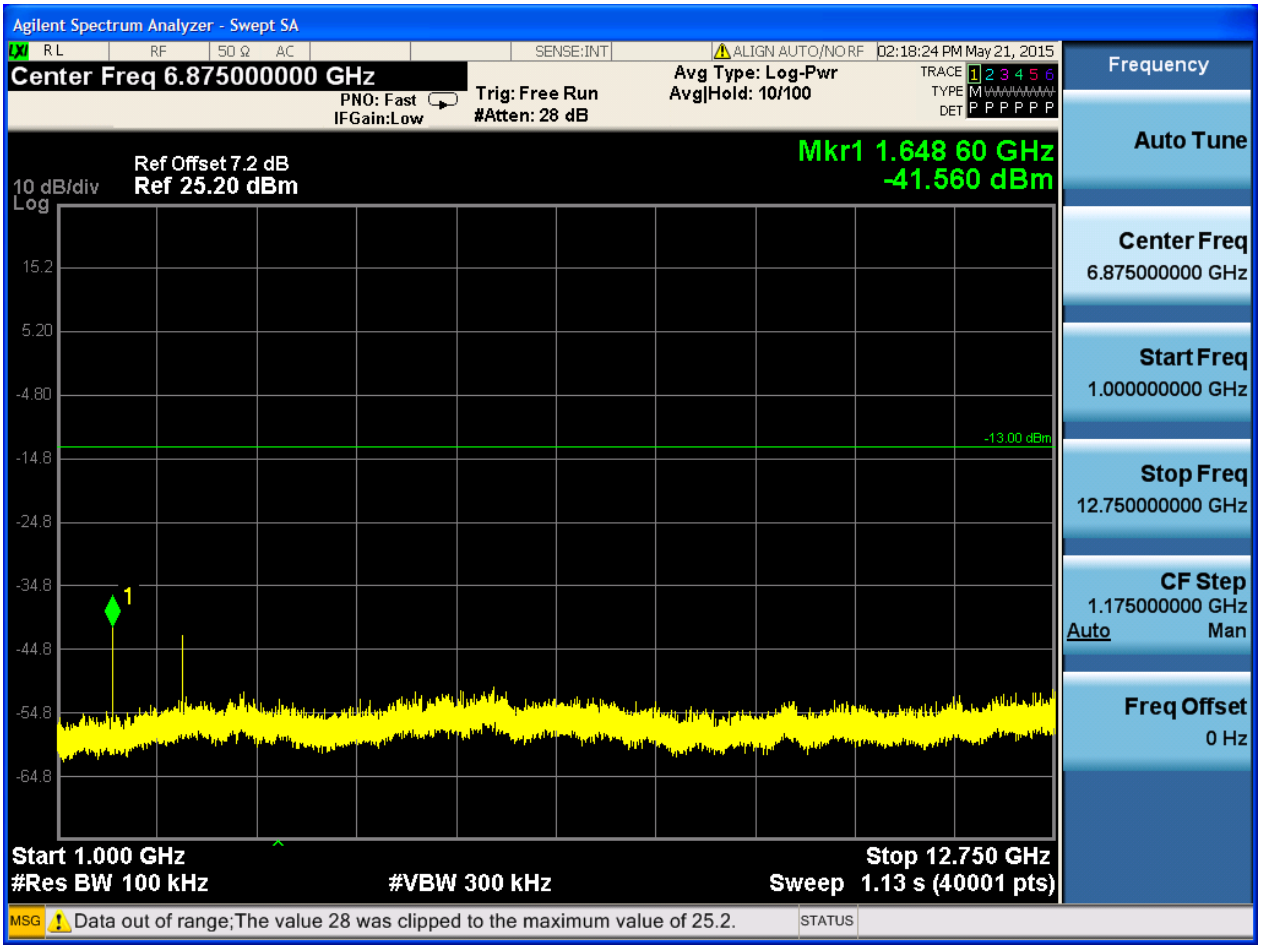

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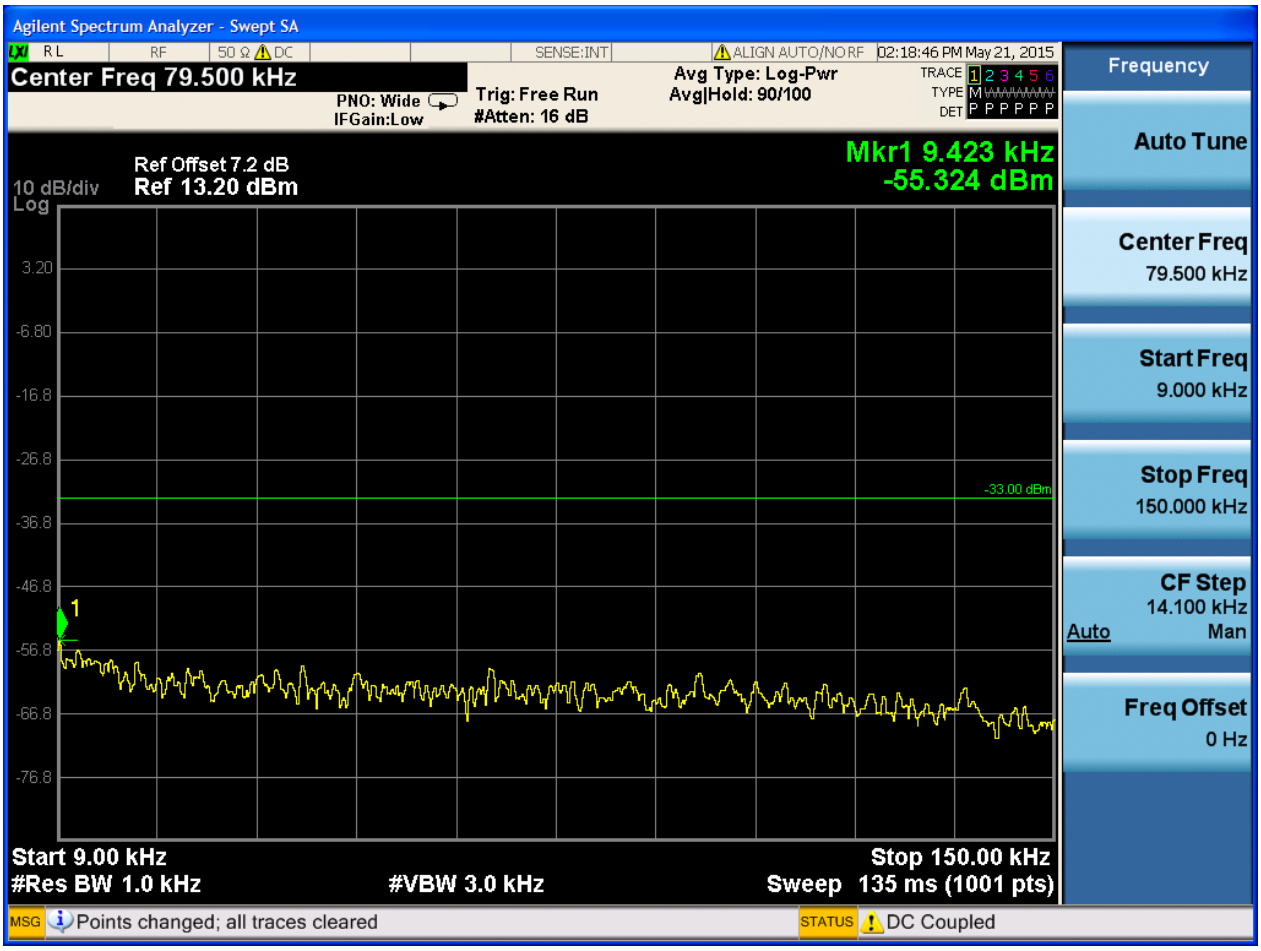
6.1.1.1.1.1 Test Channel = MCH

6.1.1.1.1.1.1 Test RB = RB1#0



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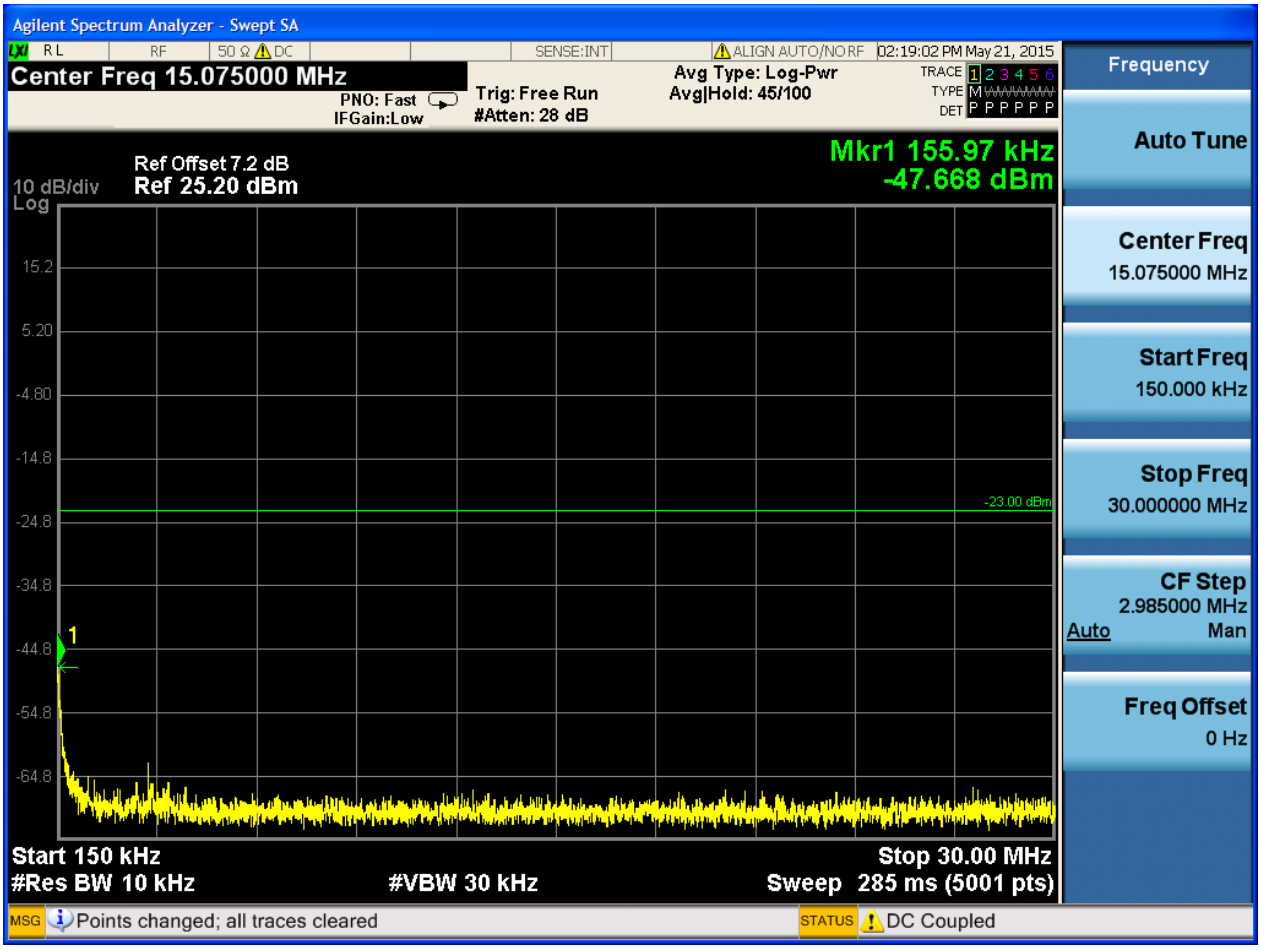

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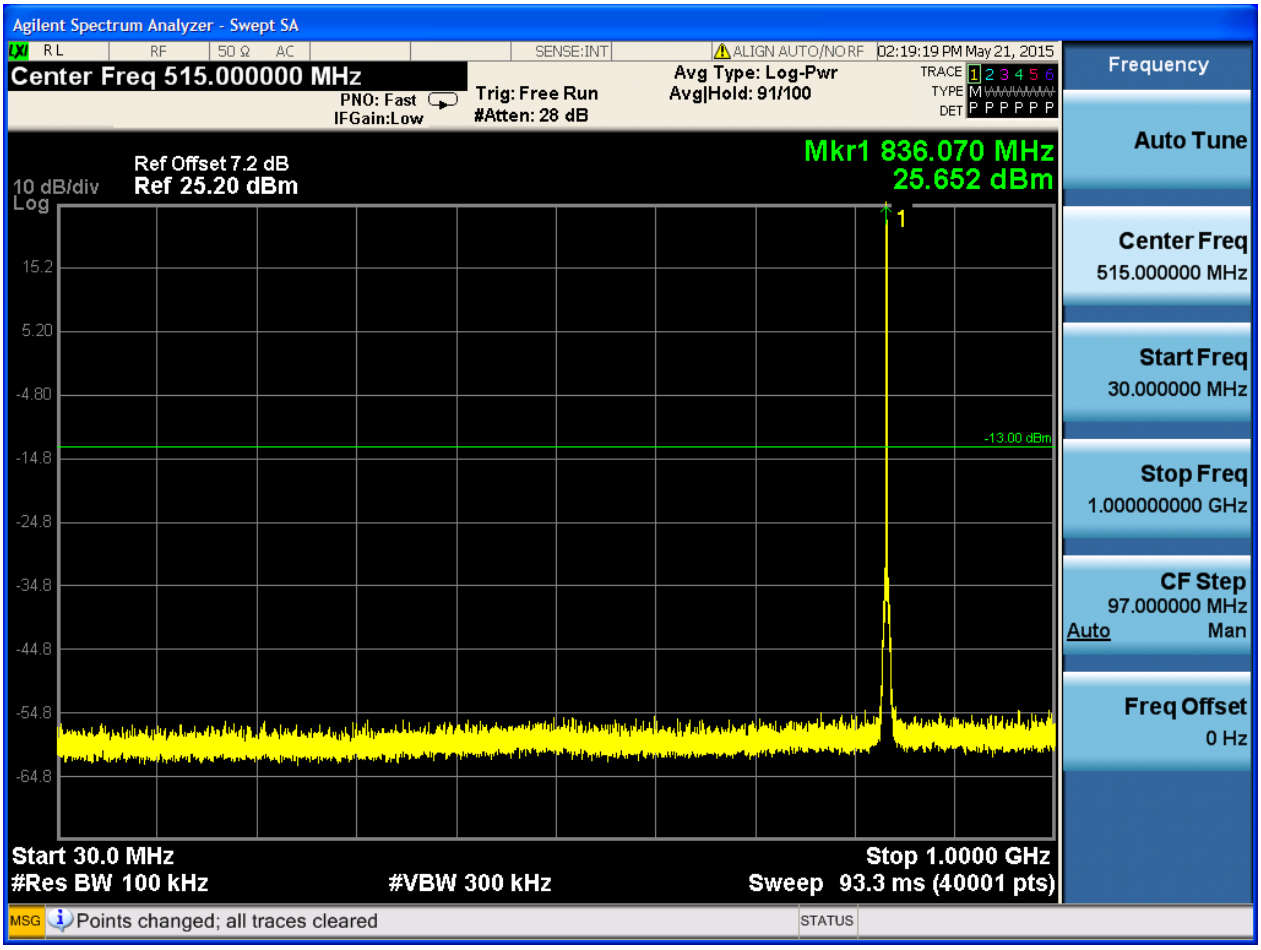

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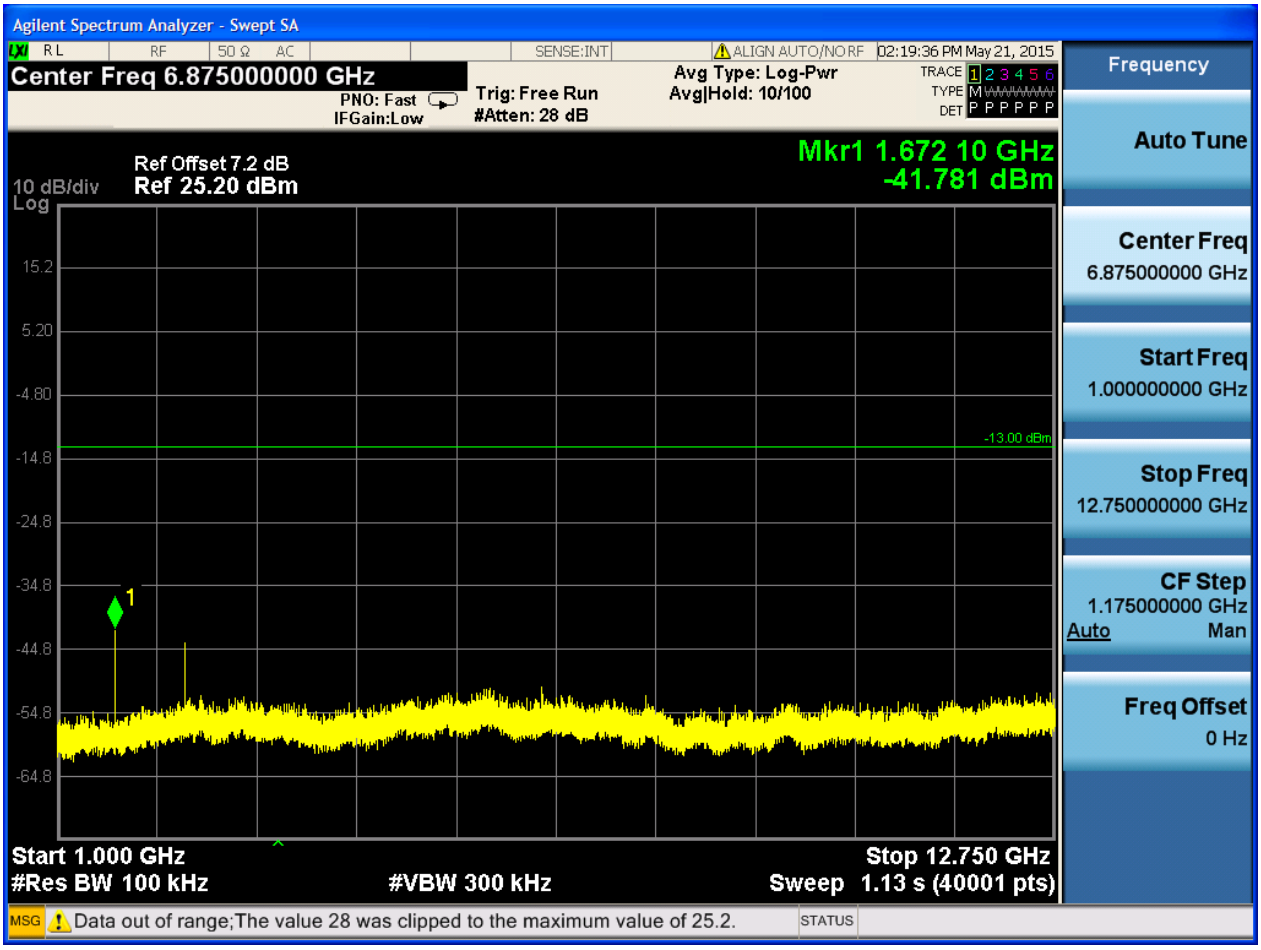

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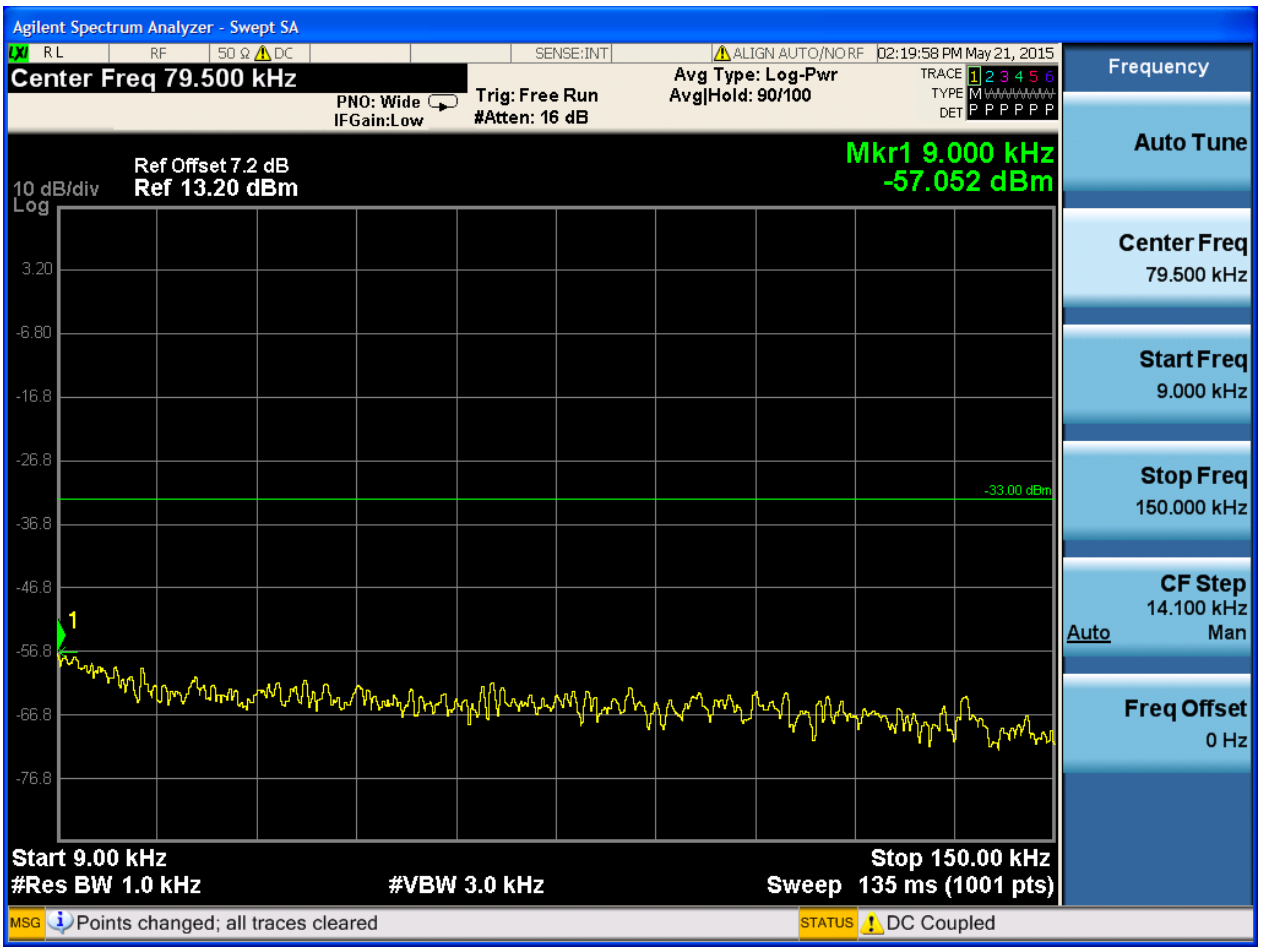
6.1.1.2.1.1 Test Channel = HCH

6.1.1.2.1.1.1 Test RB = RB1#0



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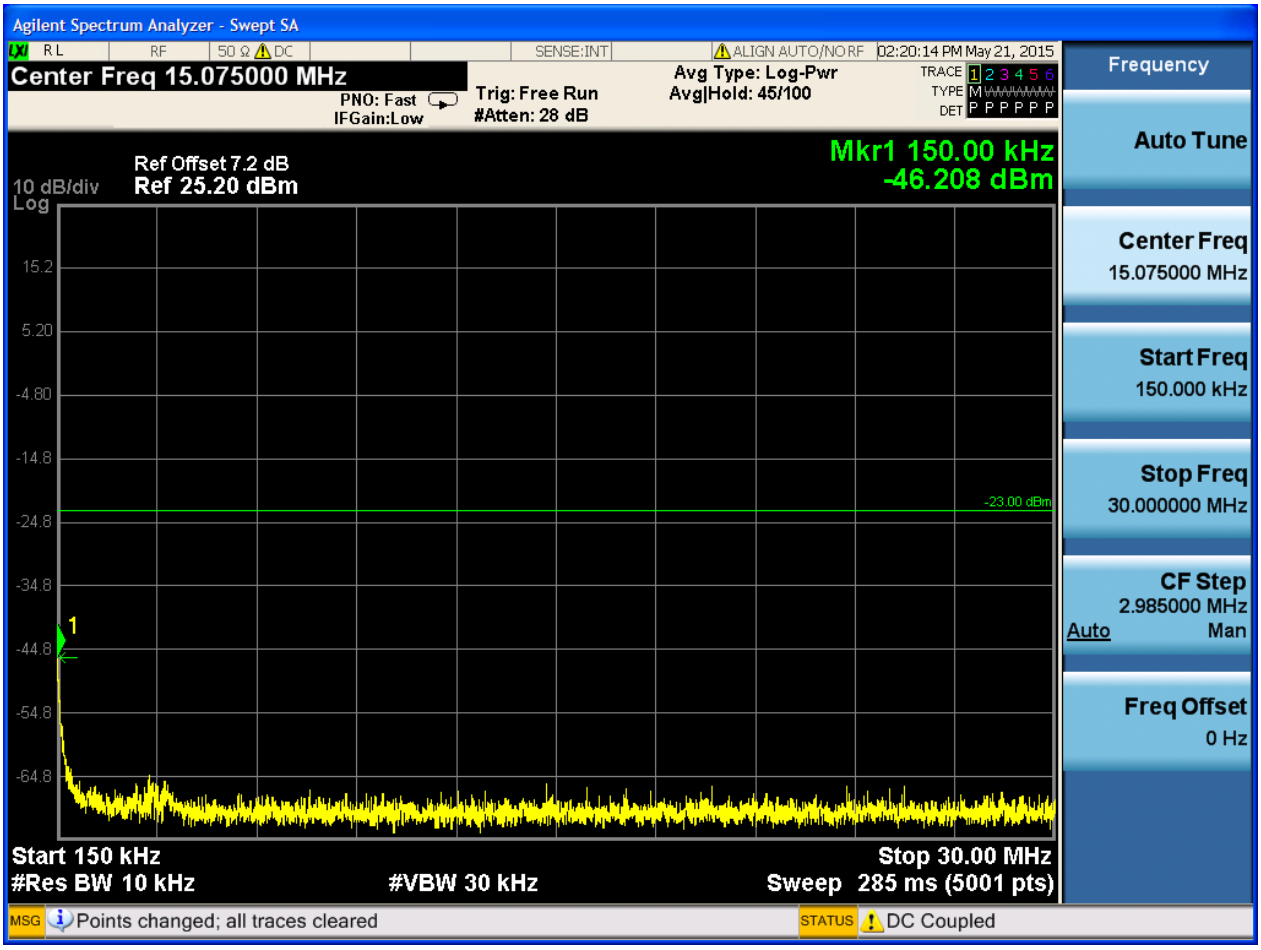

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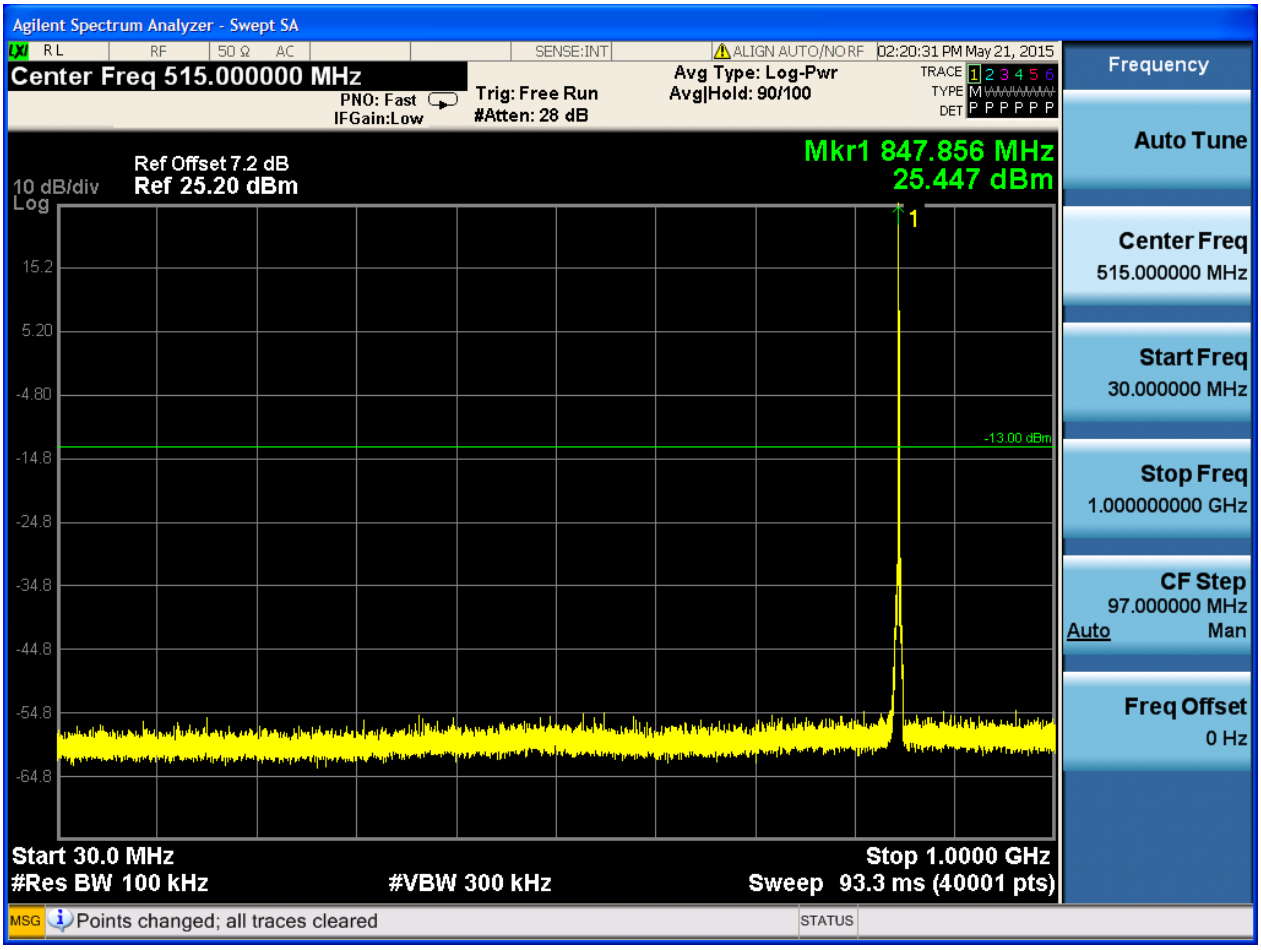

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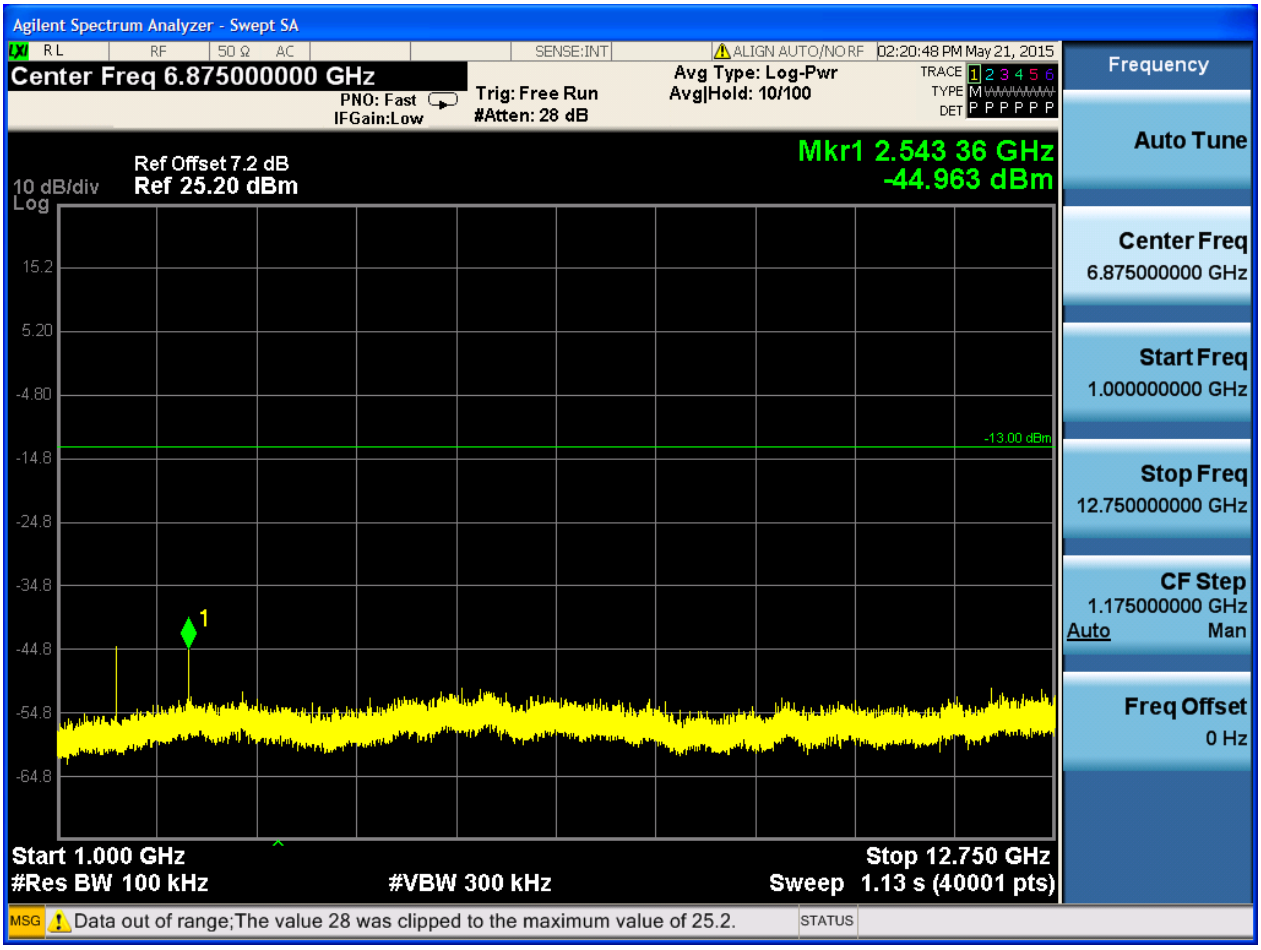

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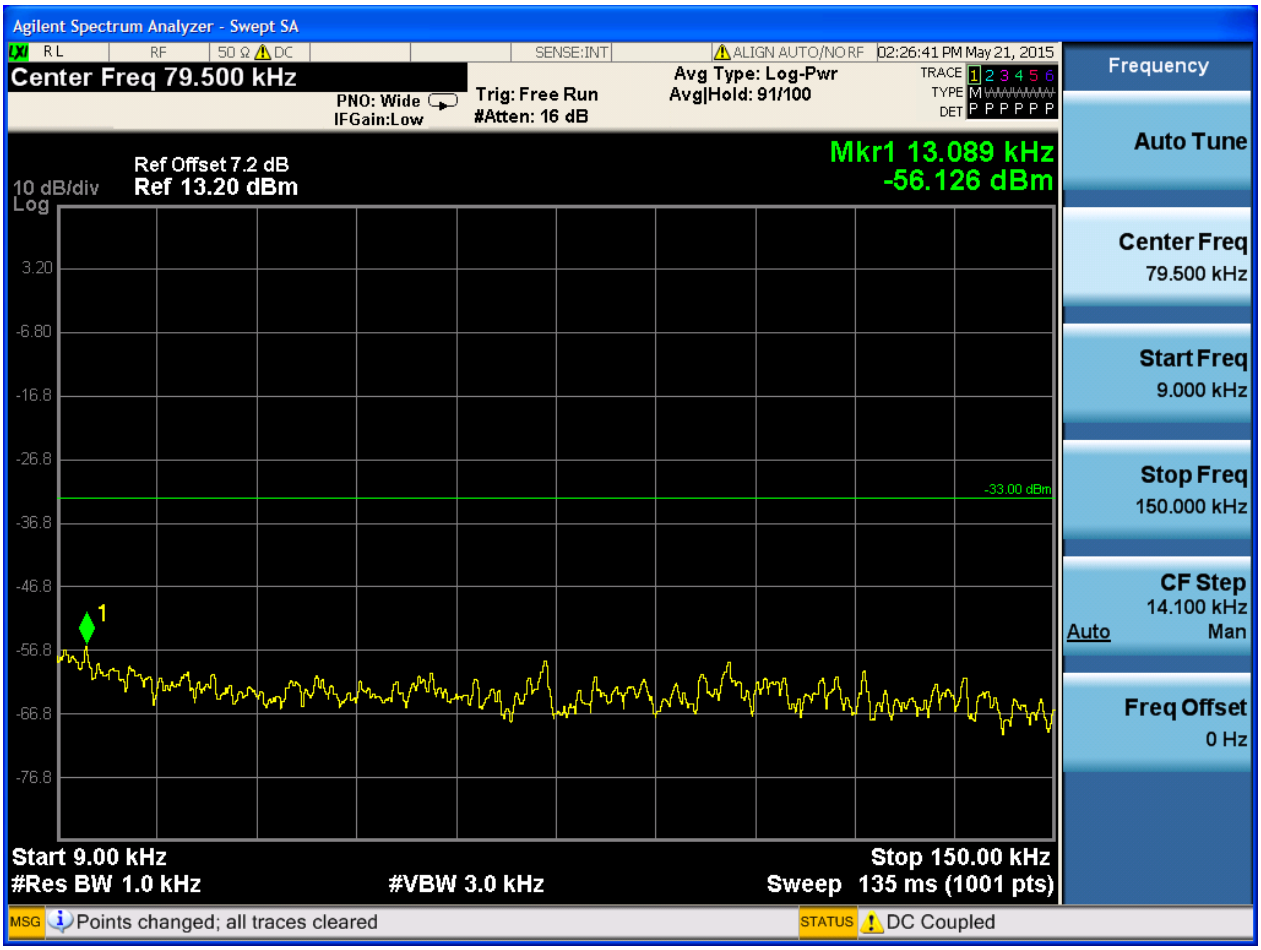
6.1.1.2.1 Test Bandwidth = 3

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



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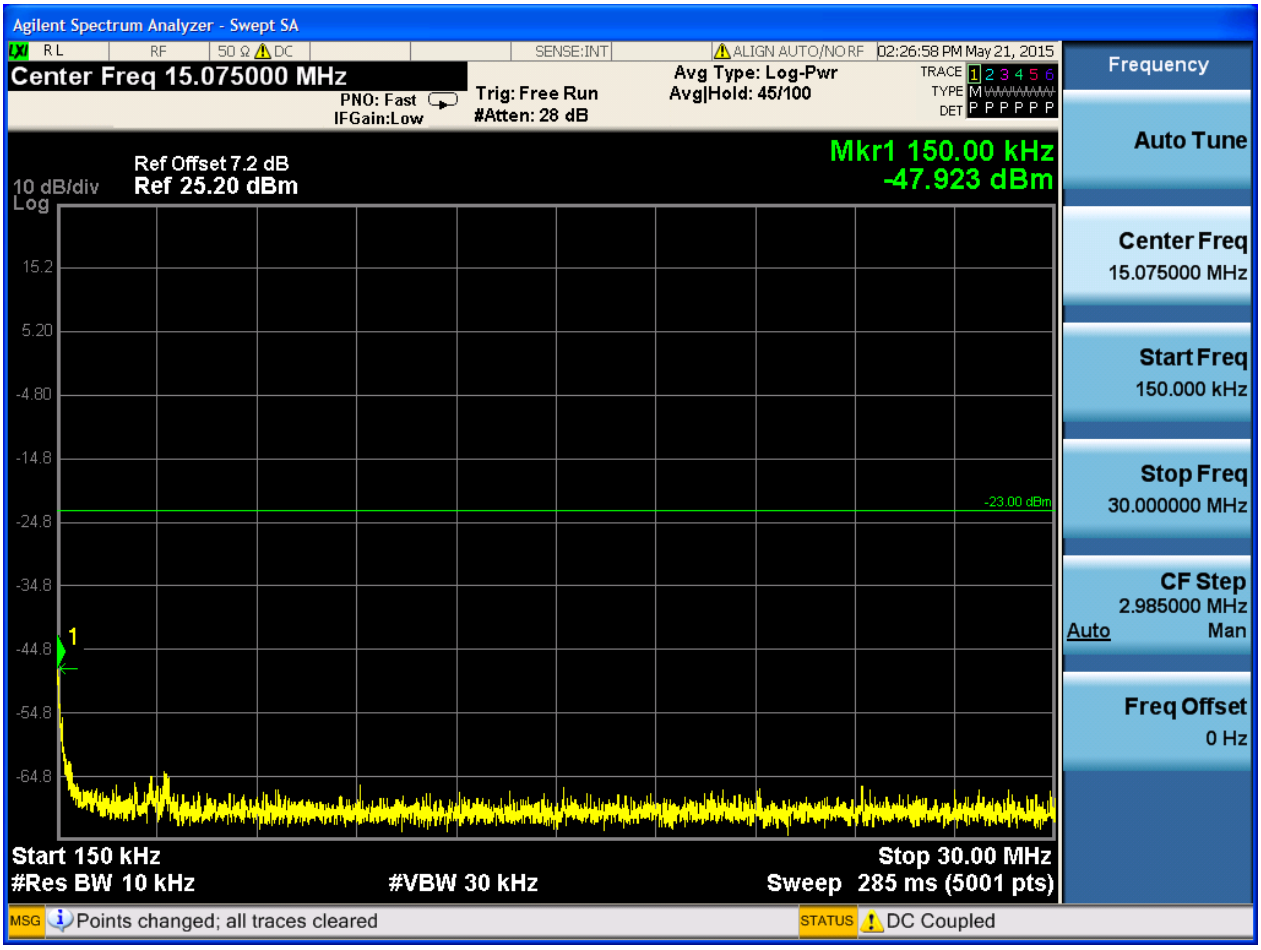

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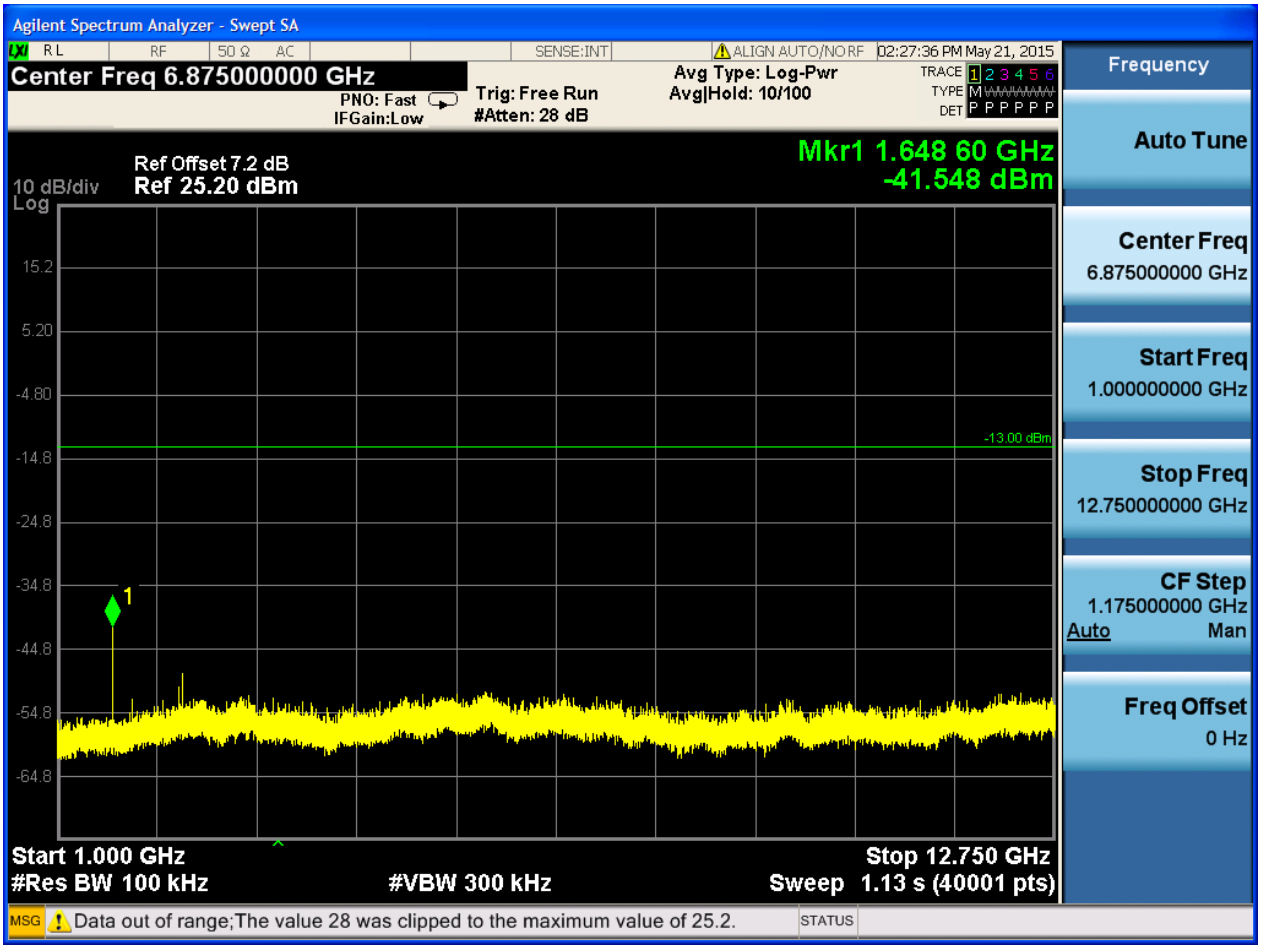

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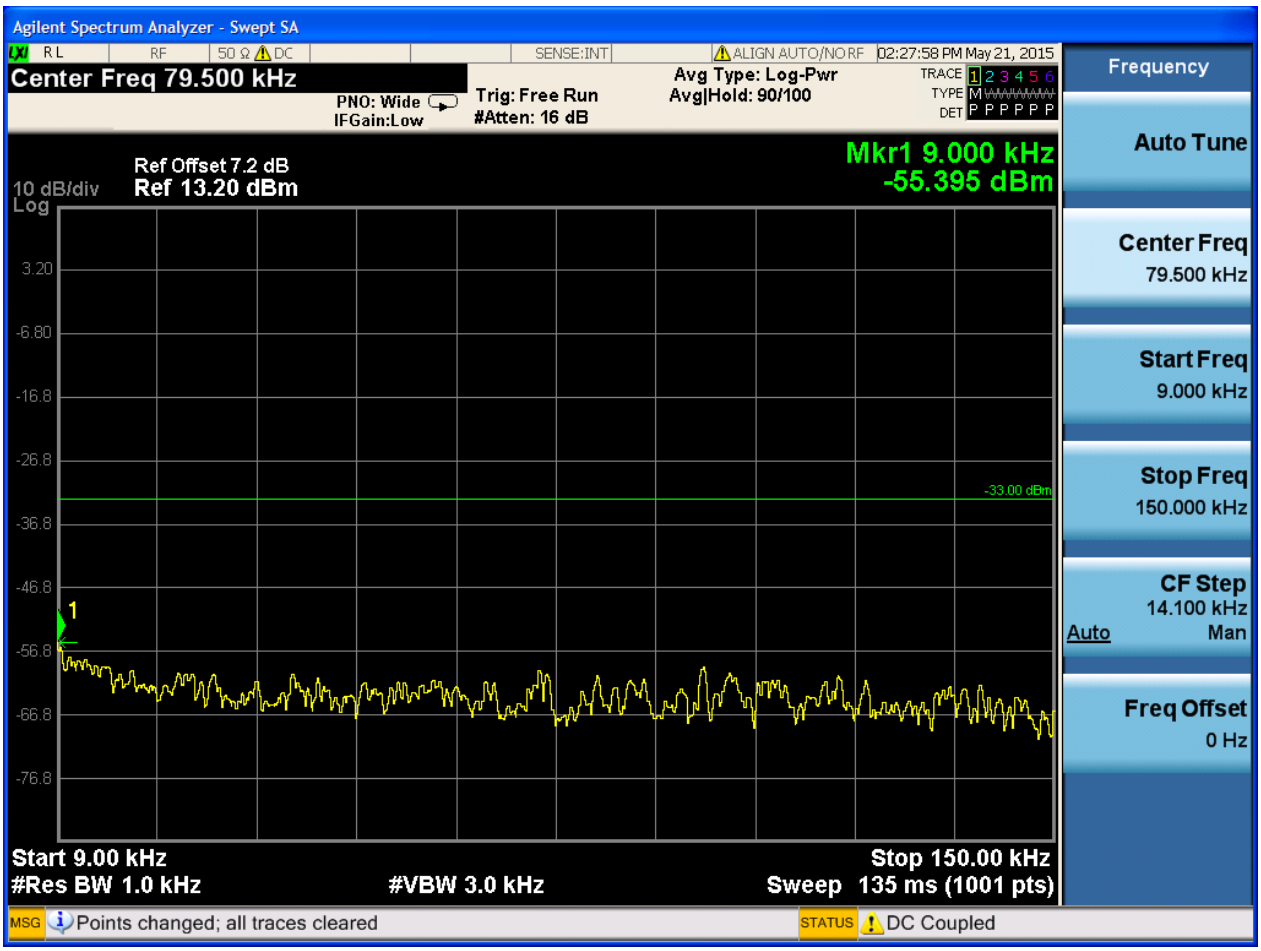
6.1.1.2.1.1 Test Channel = MCH

6.1.1.2.1.1.1 Test RB = RB1#0



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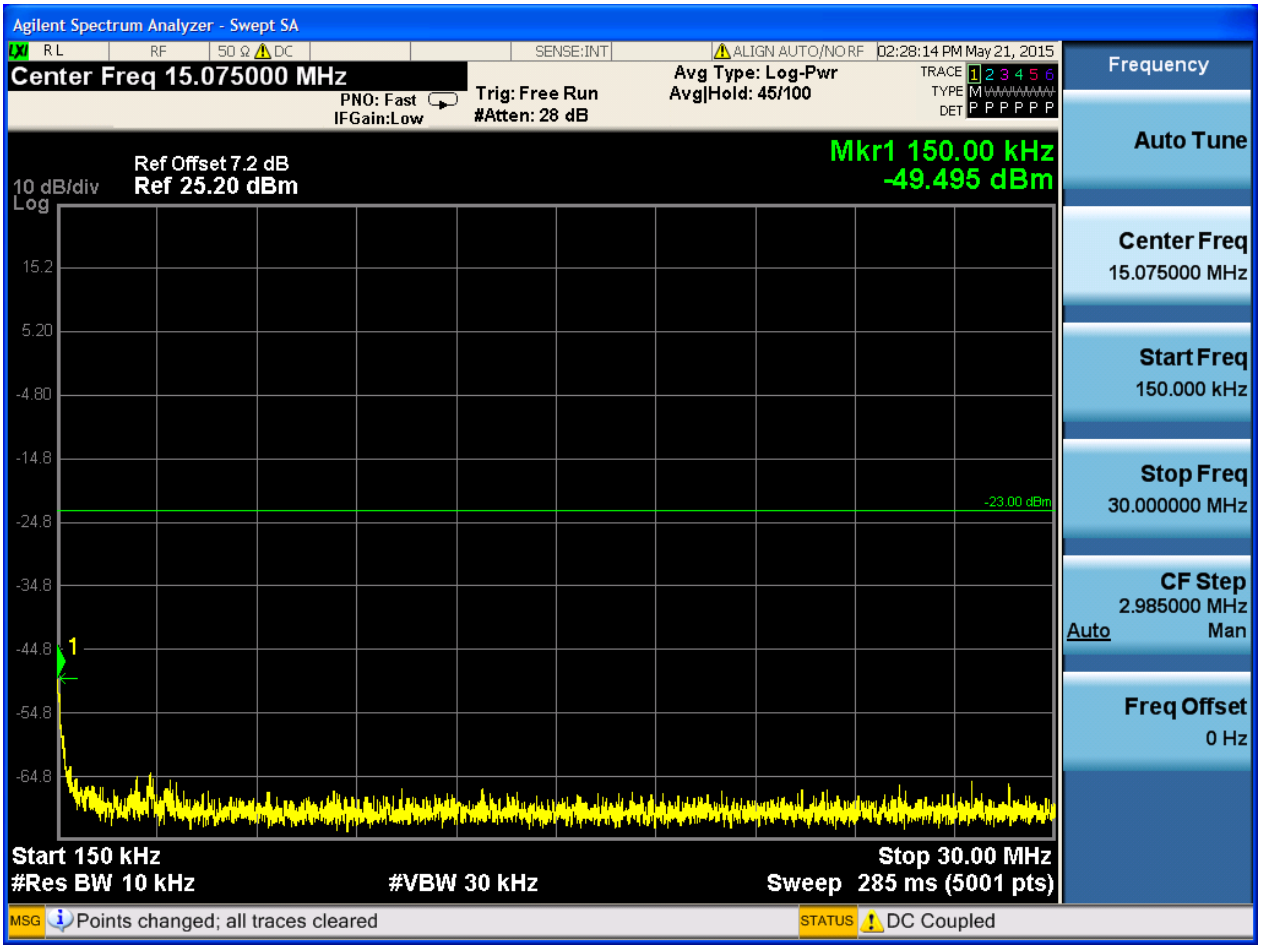

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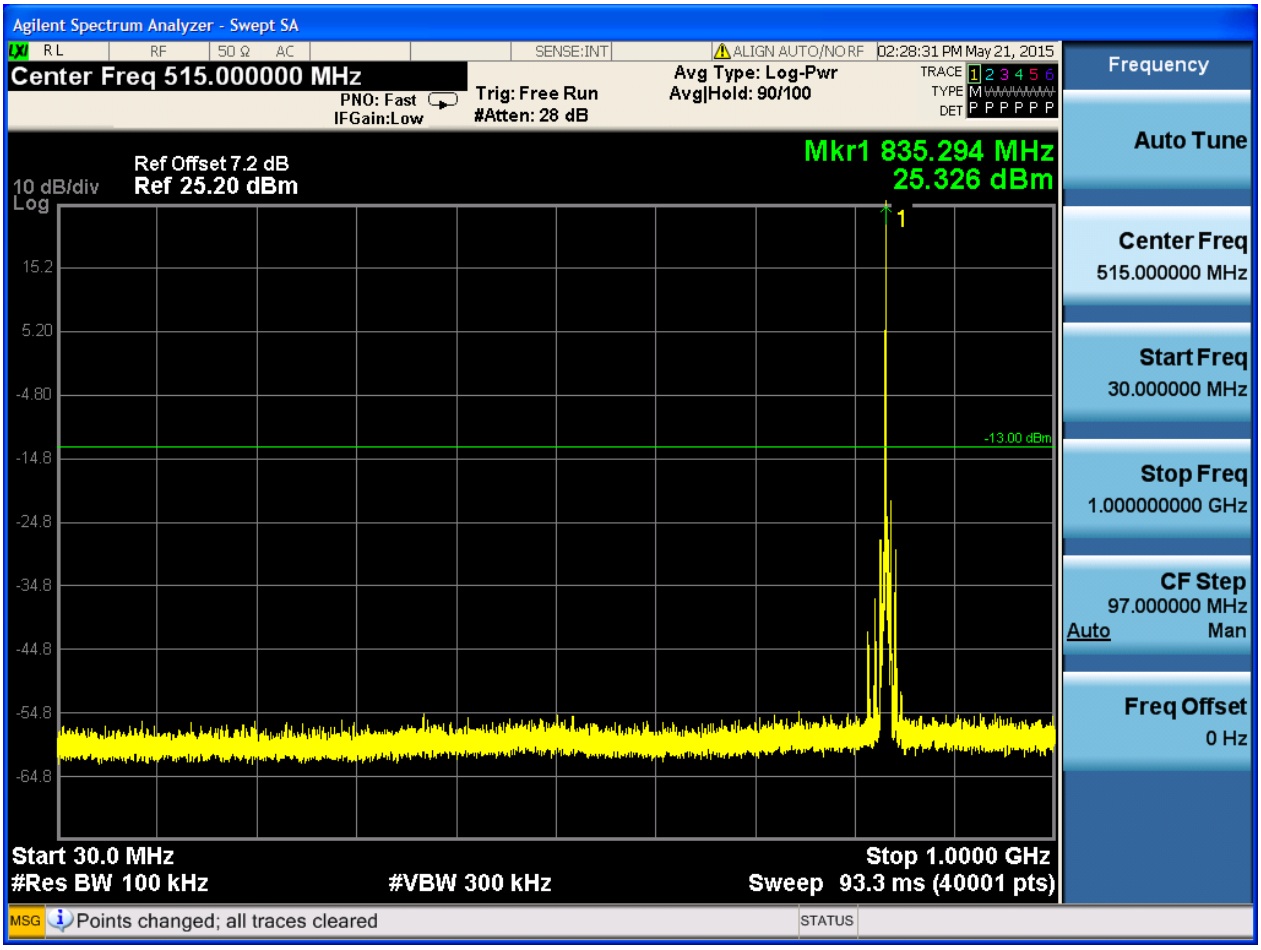

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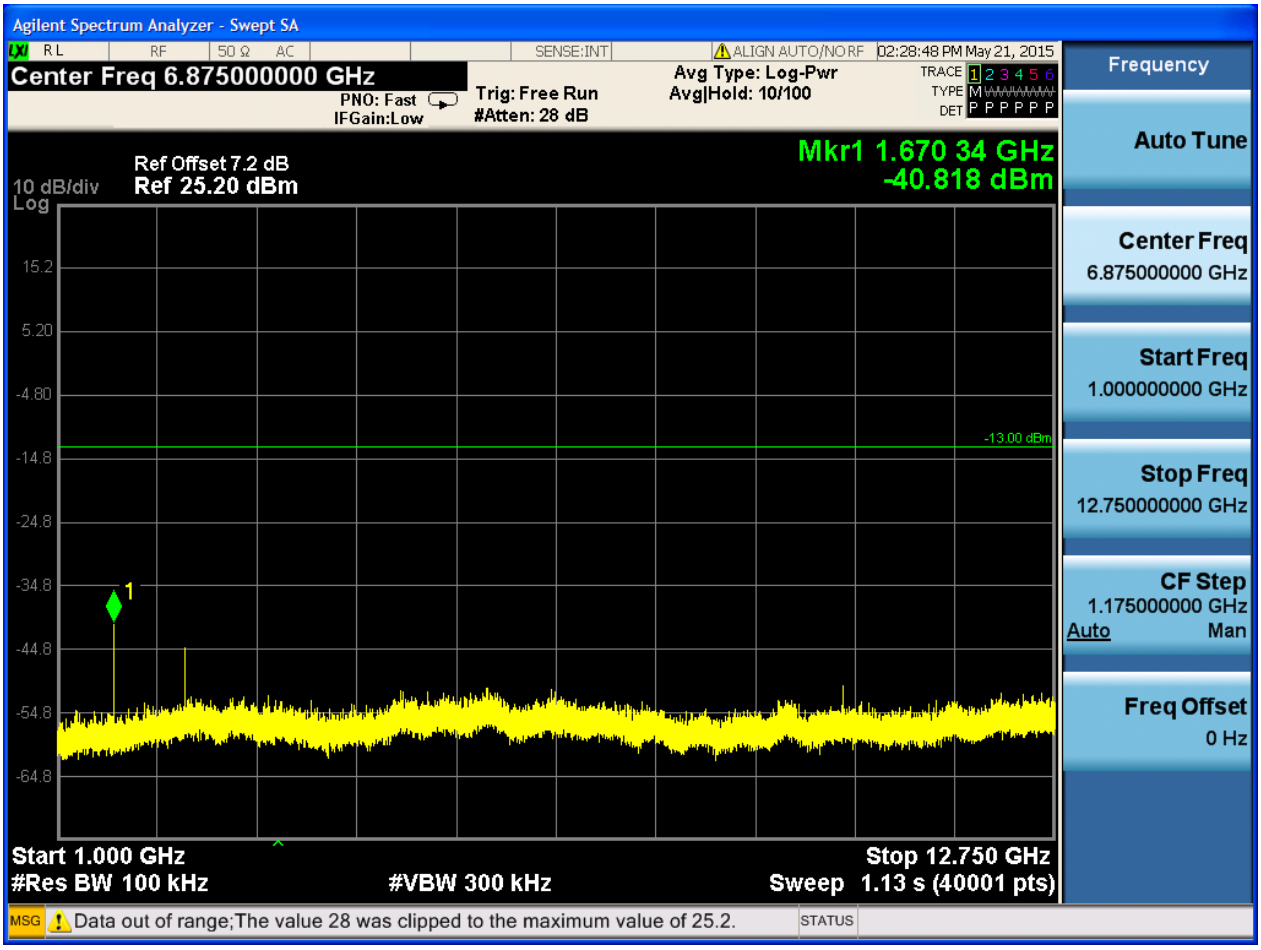

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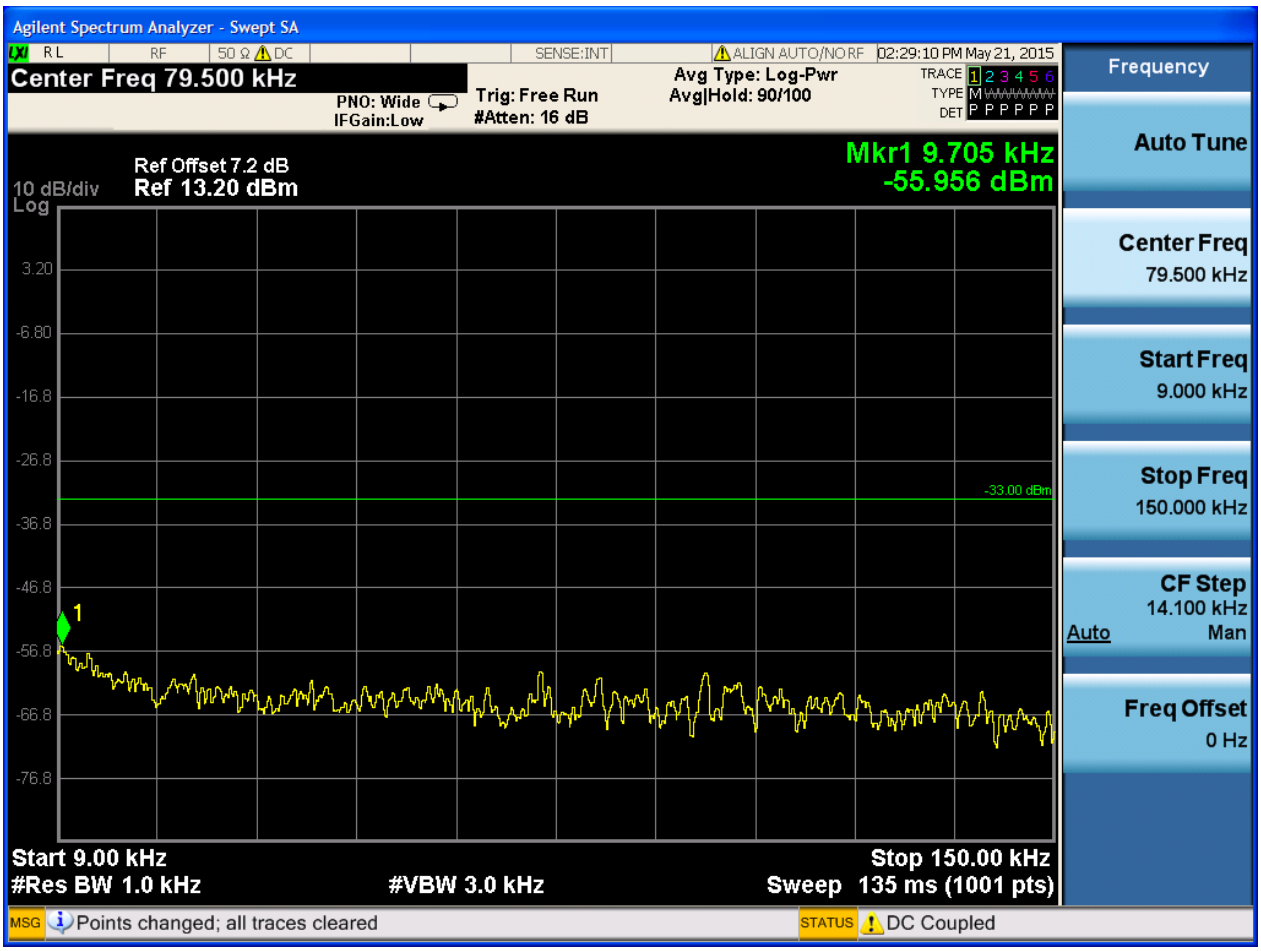
6.1.1.2.1.1 Test Channel = HCH

6.1.1.2.1.1.1 Test RB = RB1#0



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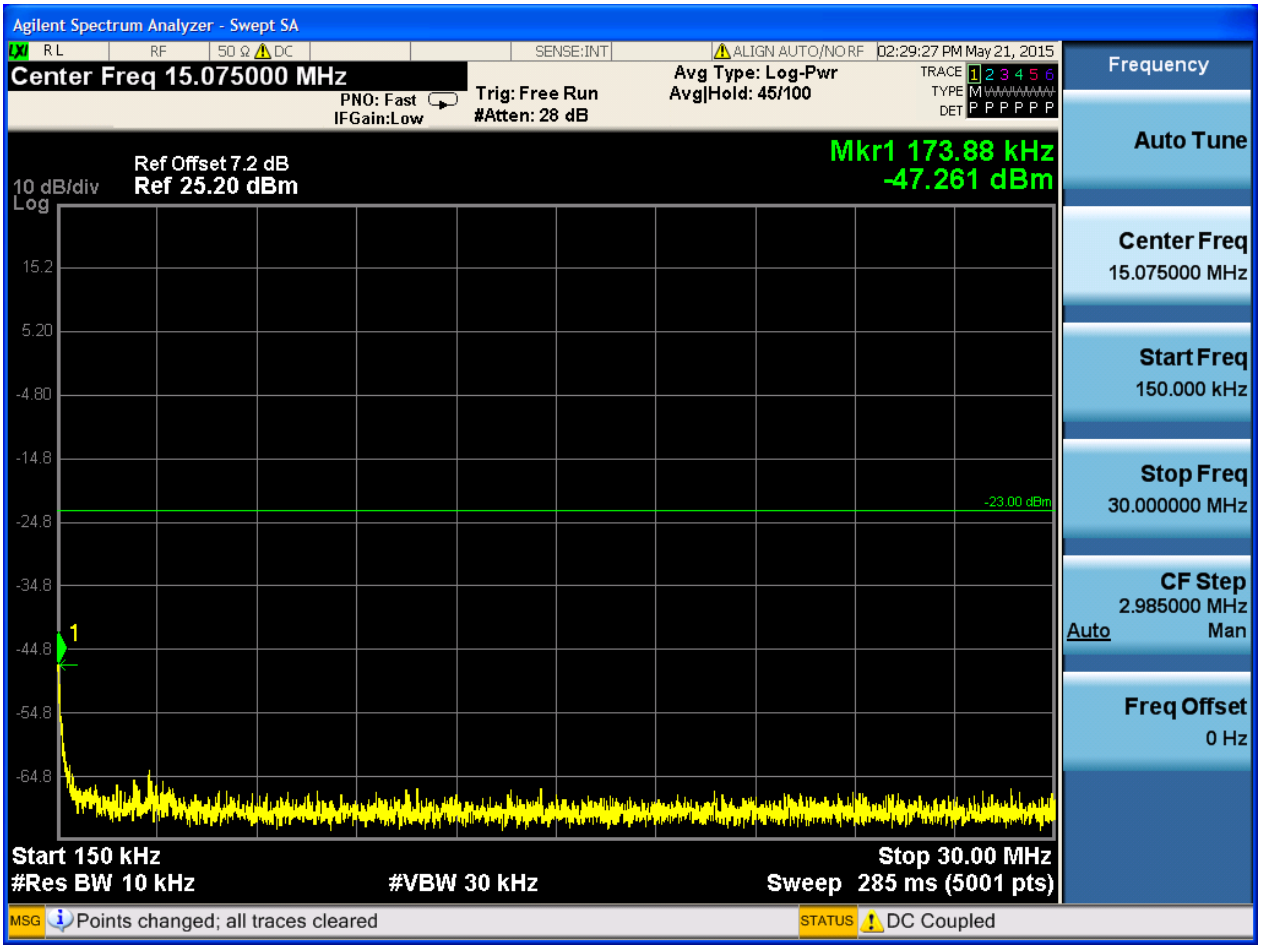

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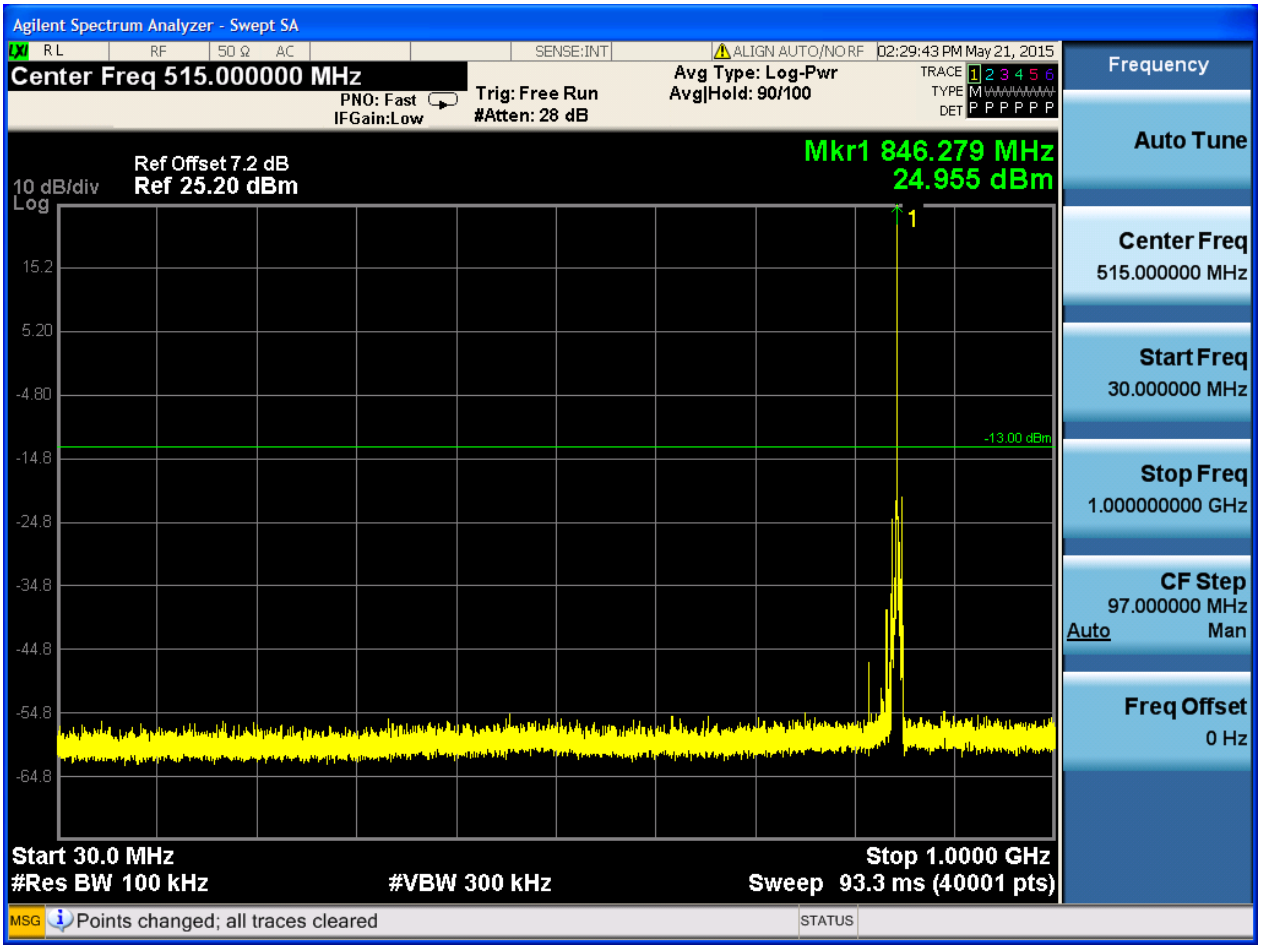

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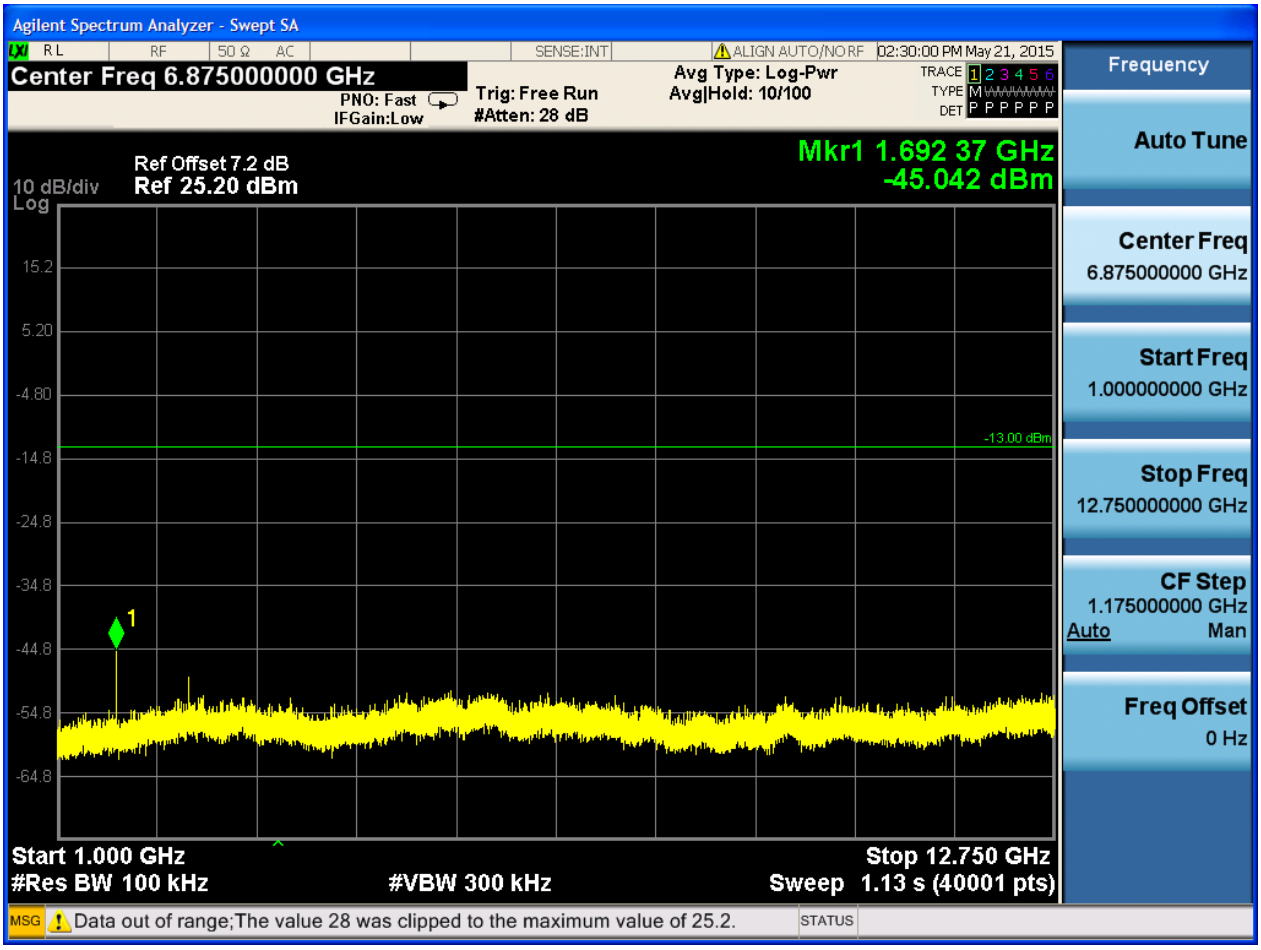

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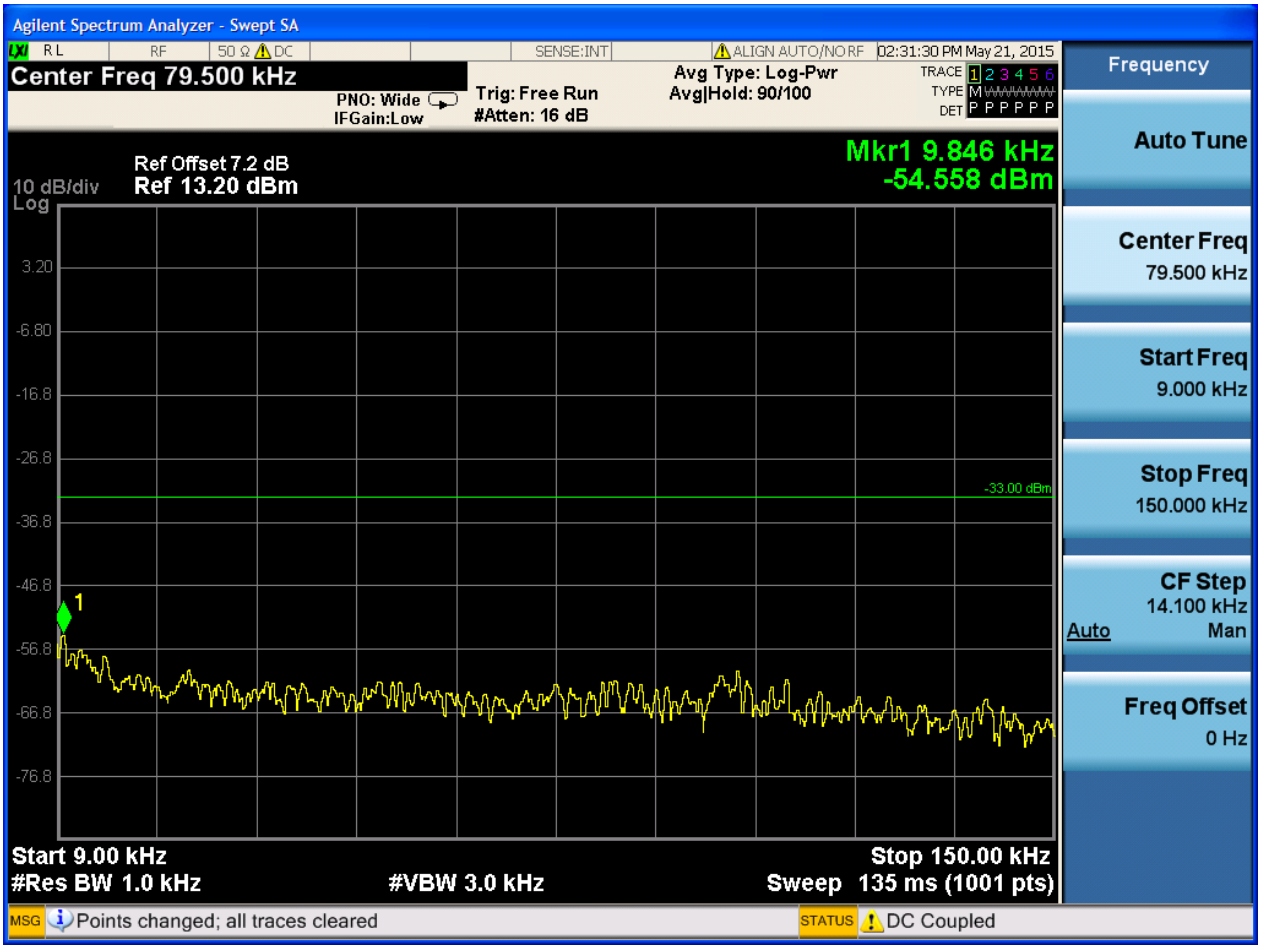
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



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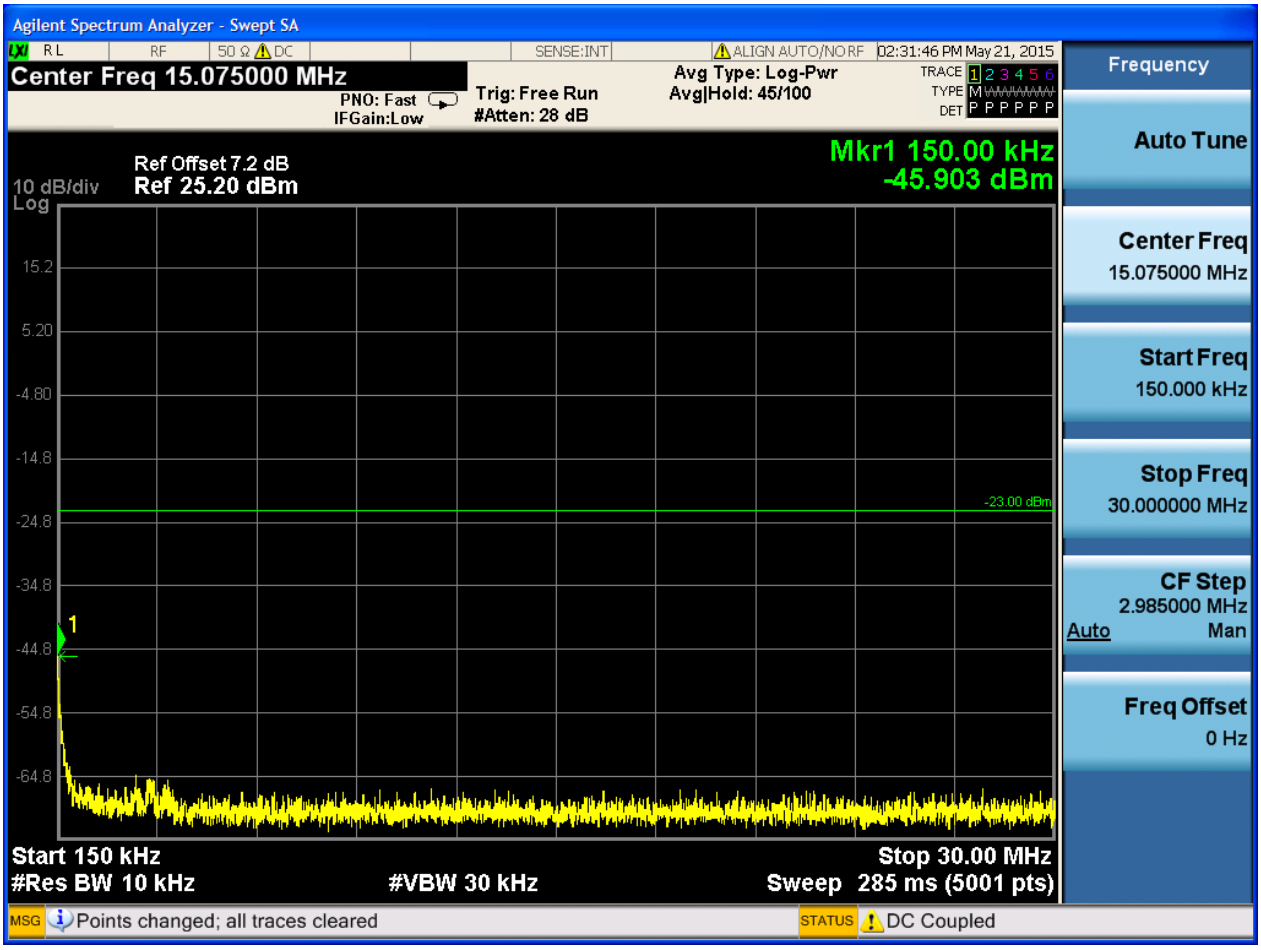

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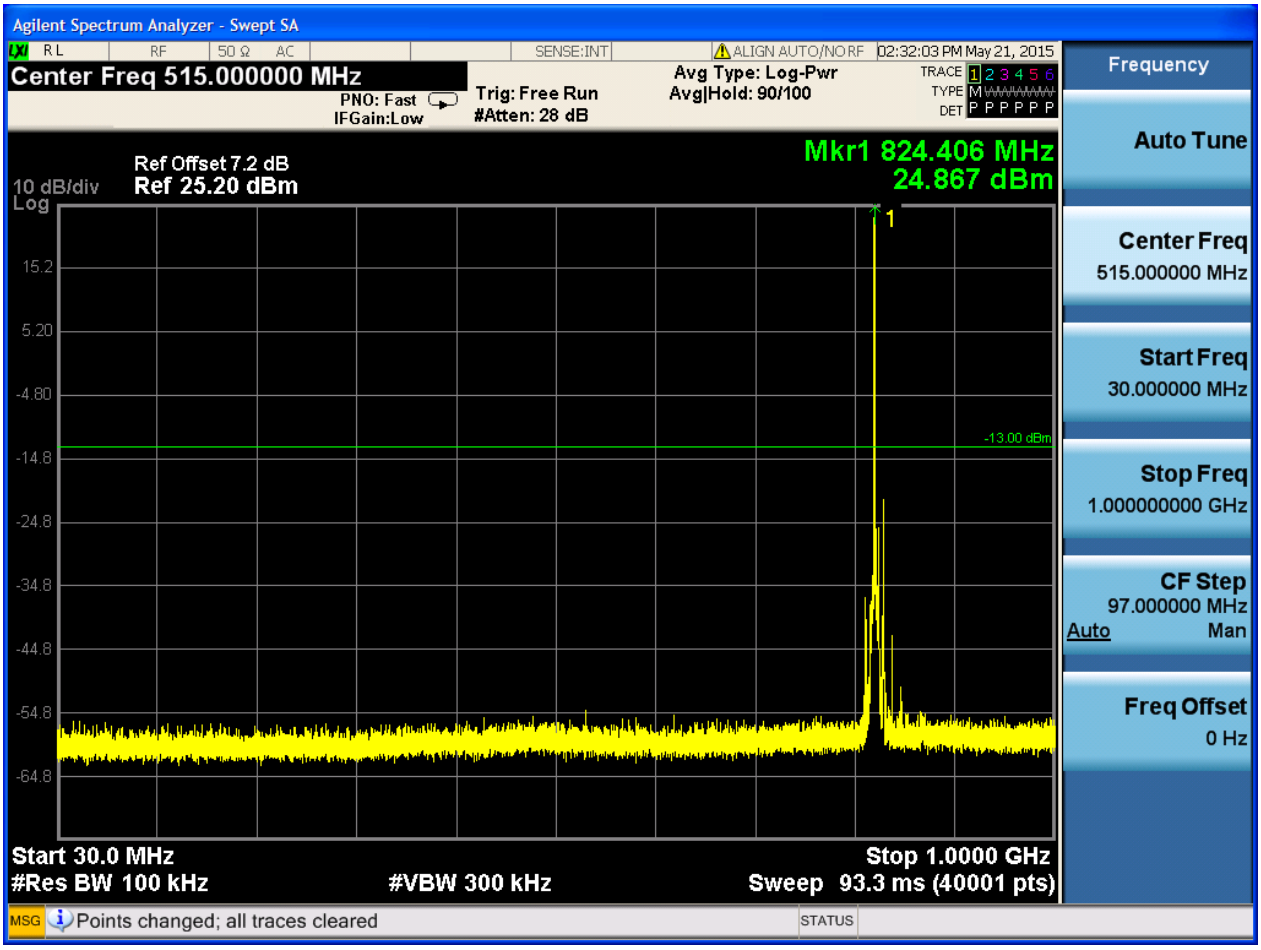

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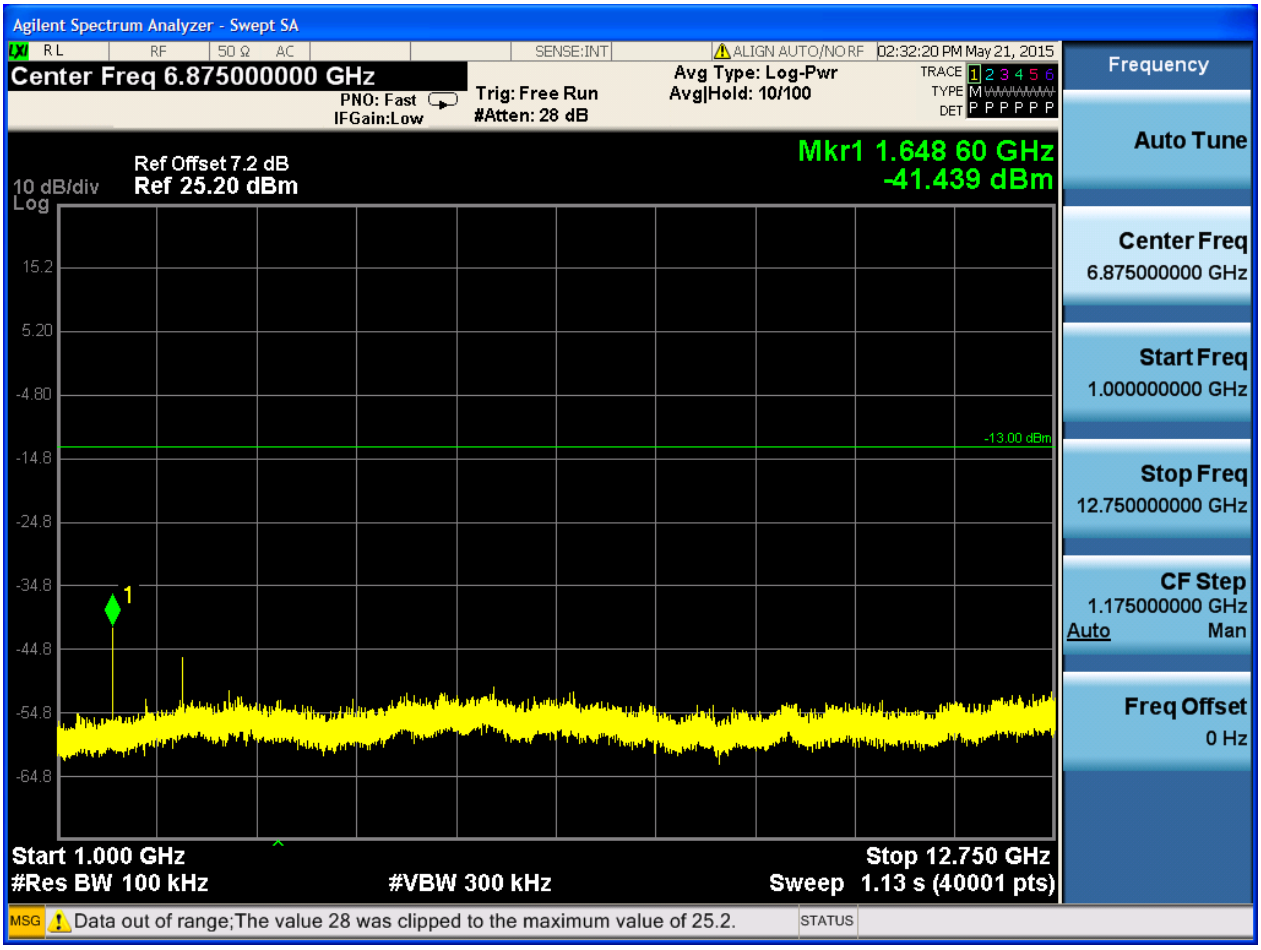

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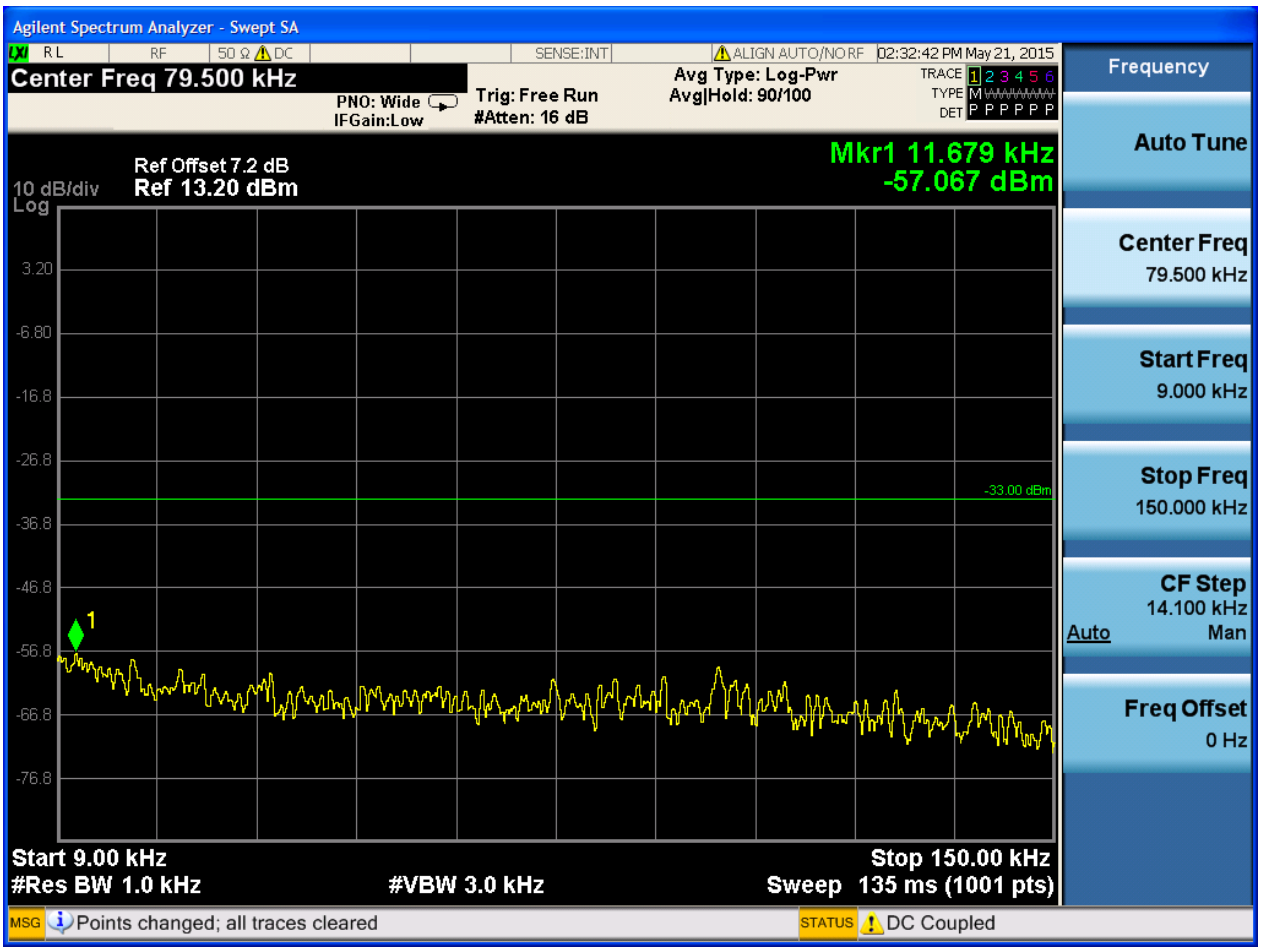
6.1.1.2.1.1 Test Channel = MCH

6.1.1.2.1.1.1 Test RB = RB1#0



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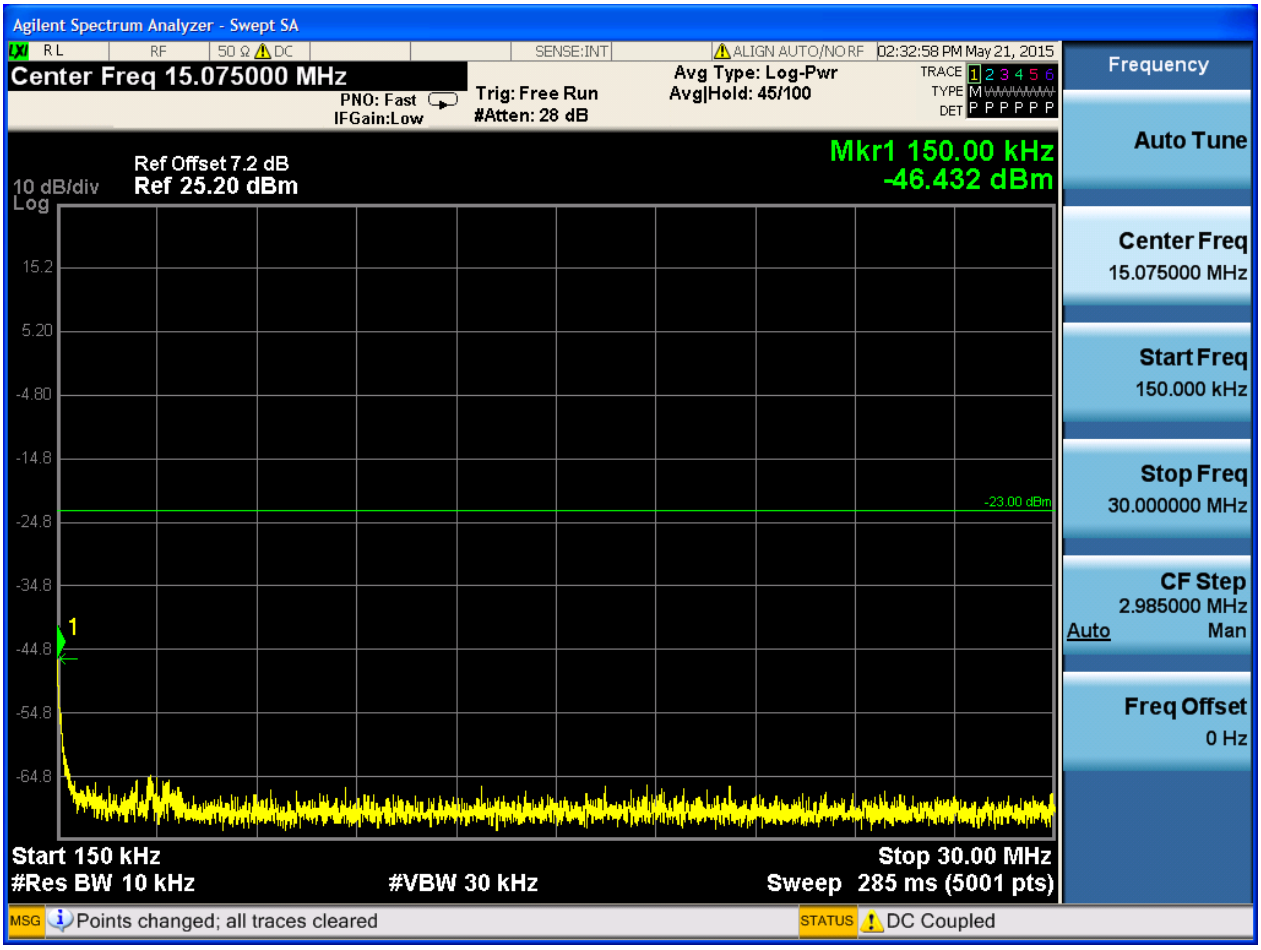

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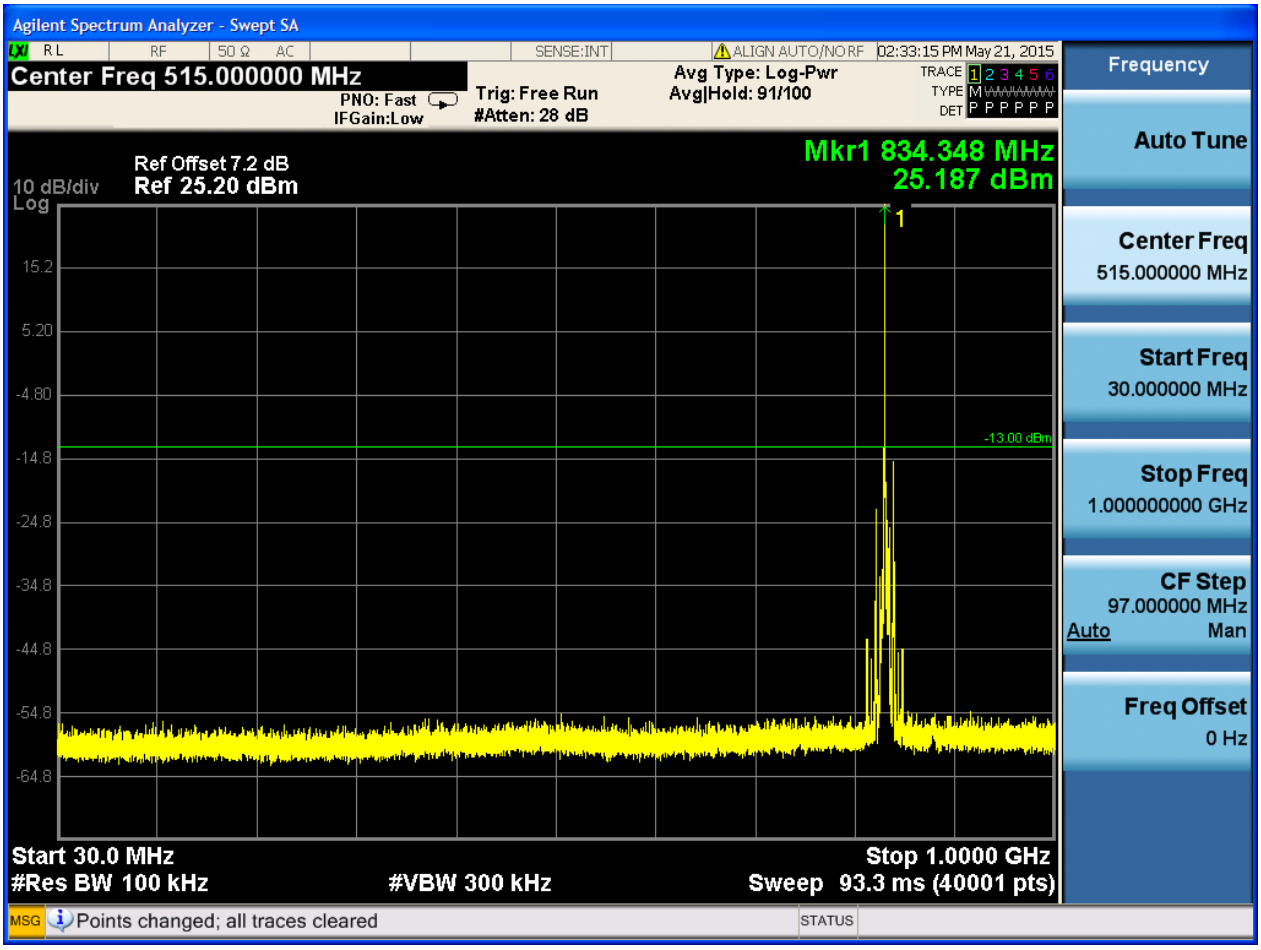

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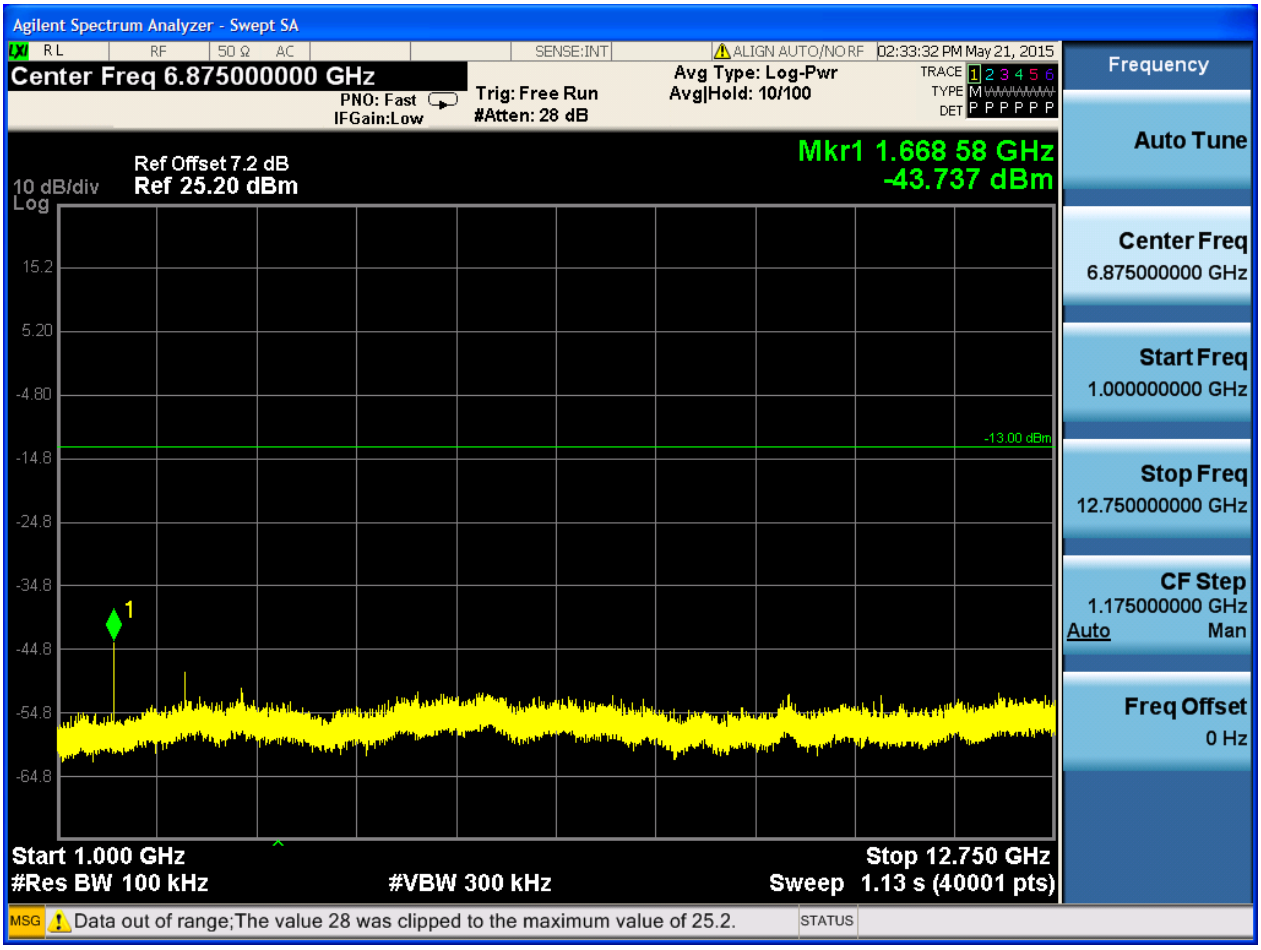

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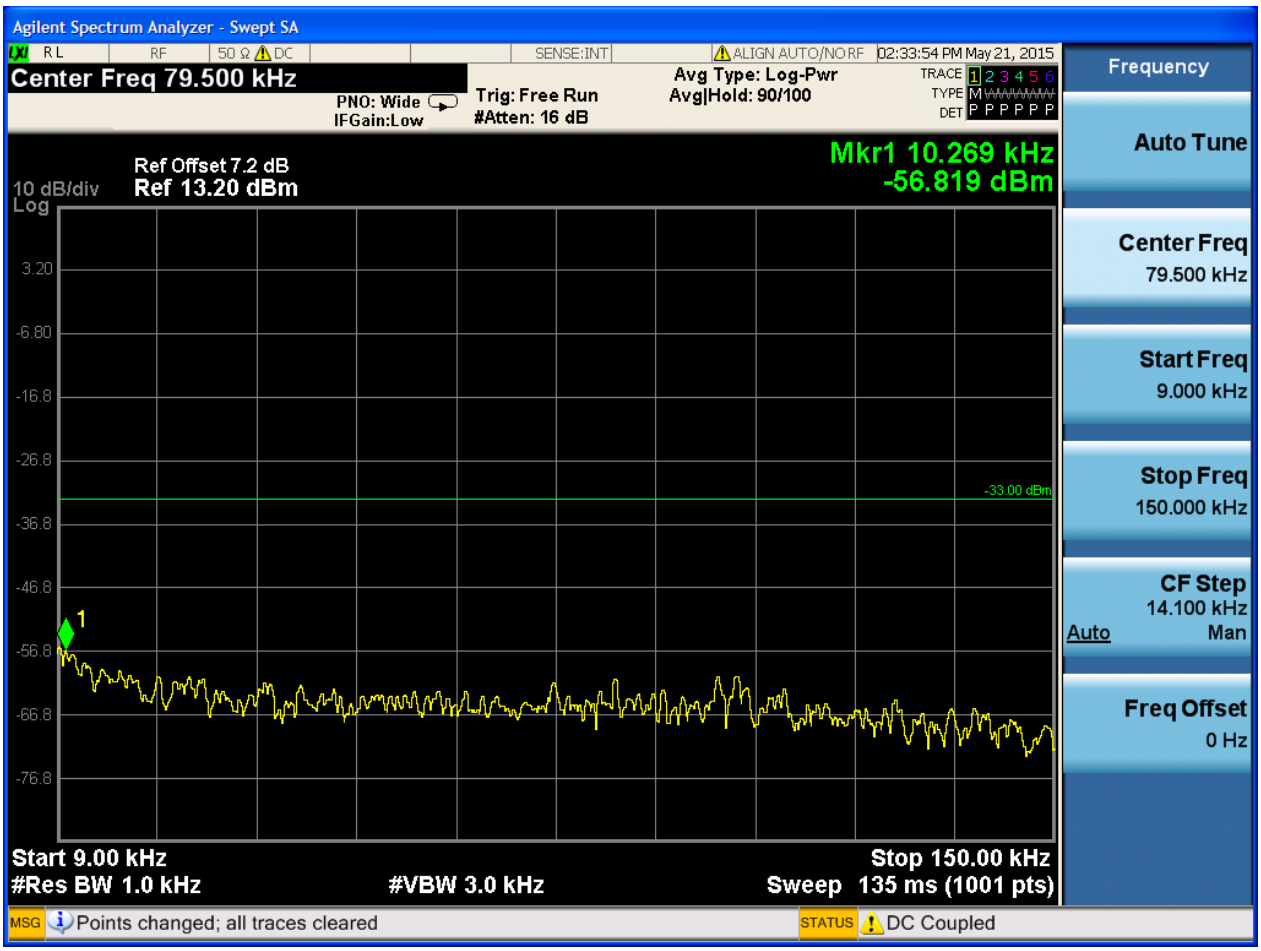
6.1.1.2.1.1 Test Channel = HCH

6.1.1.2.1.1.1 Test RB = RB1#0



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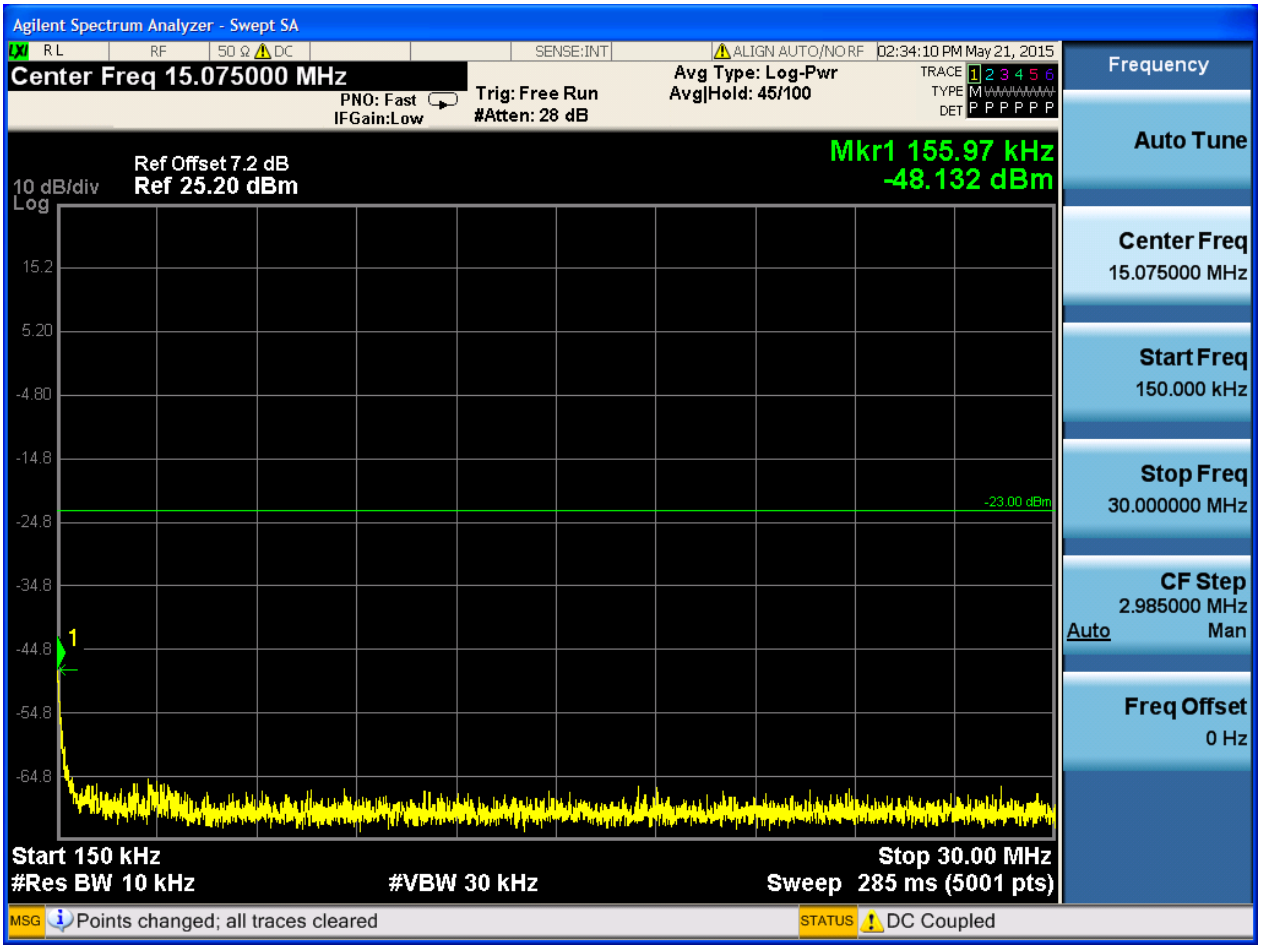

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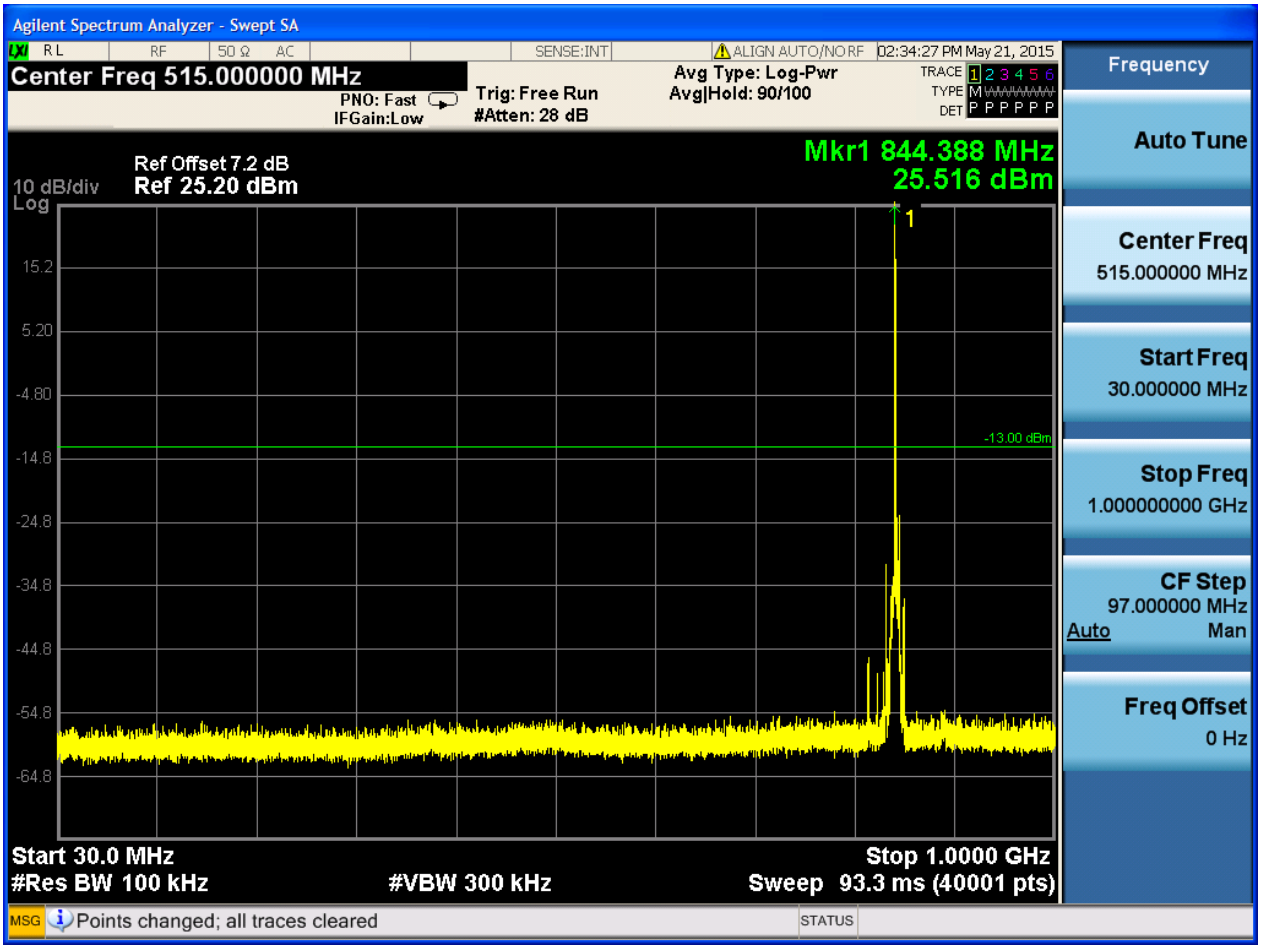

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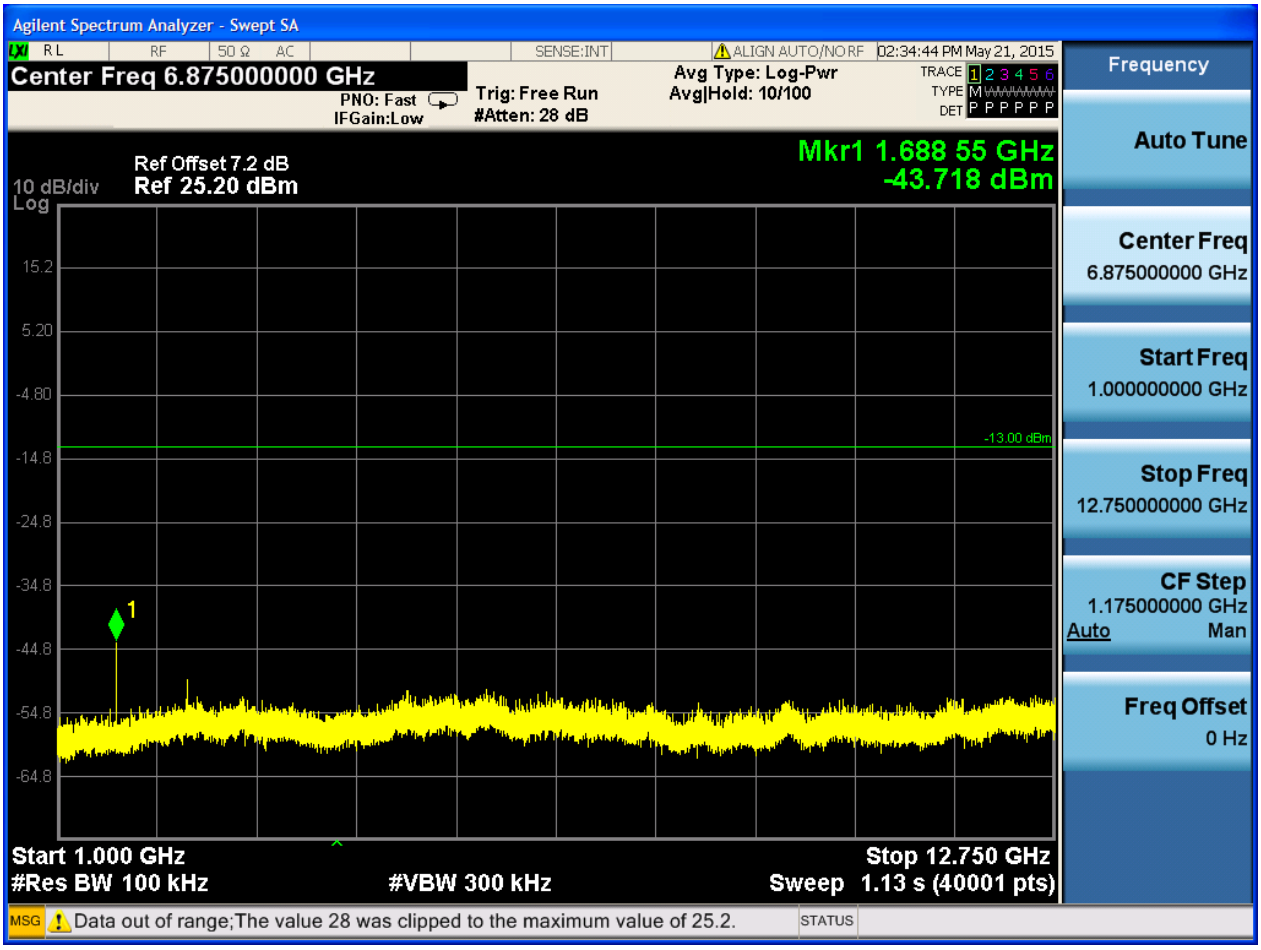

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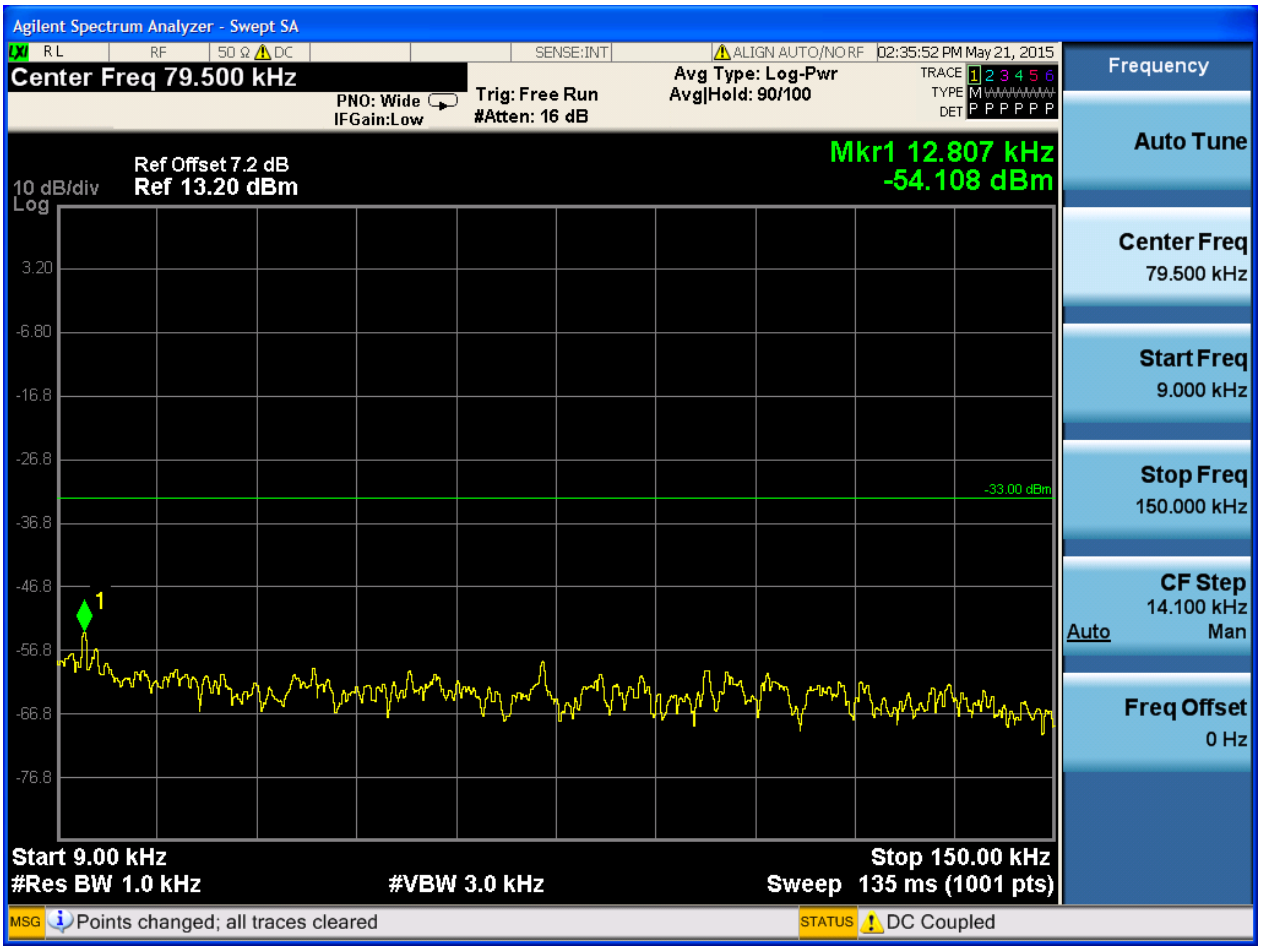
6.1.1.2.1 Test Bandwidth = 10

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



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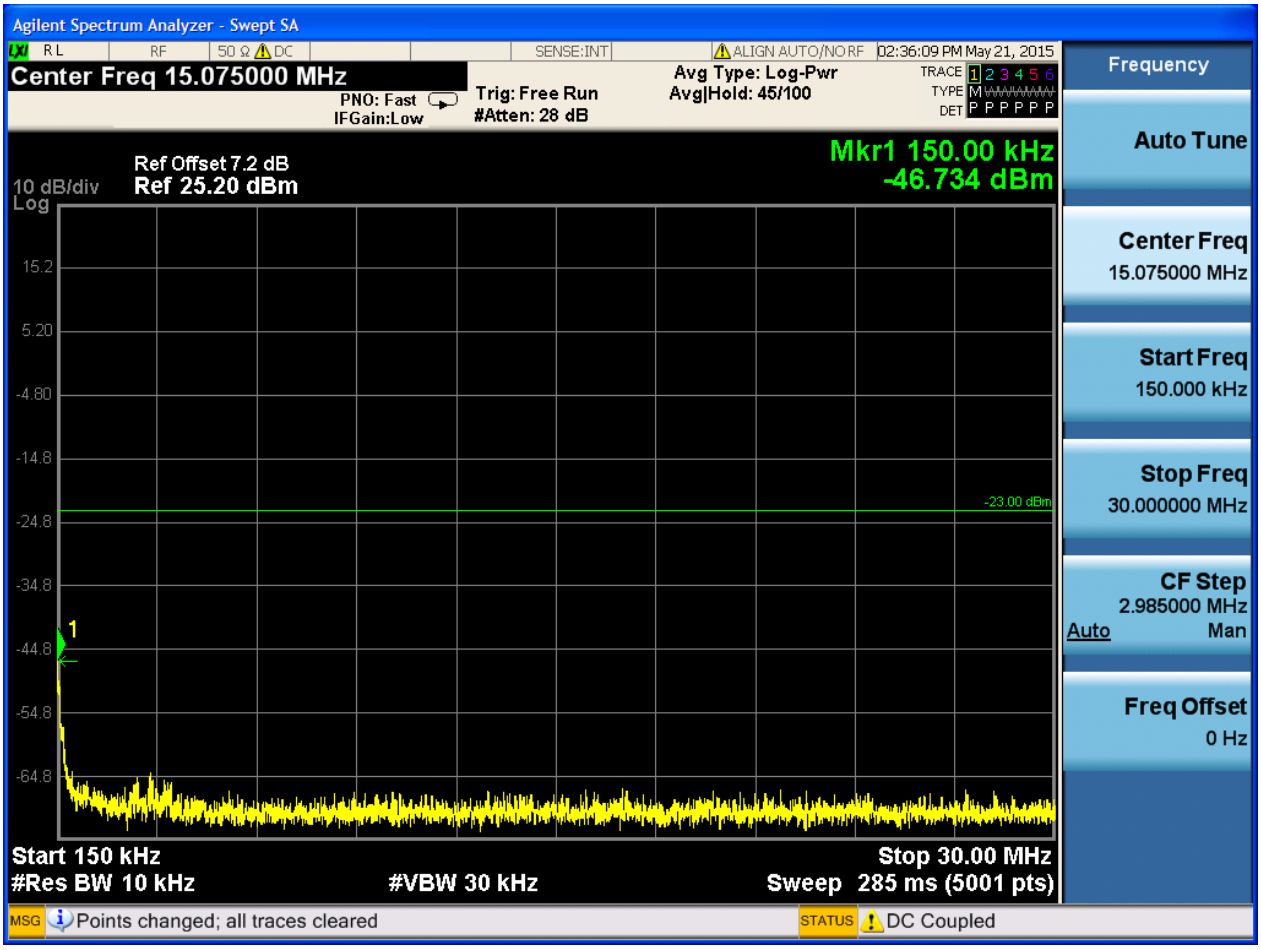

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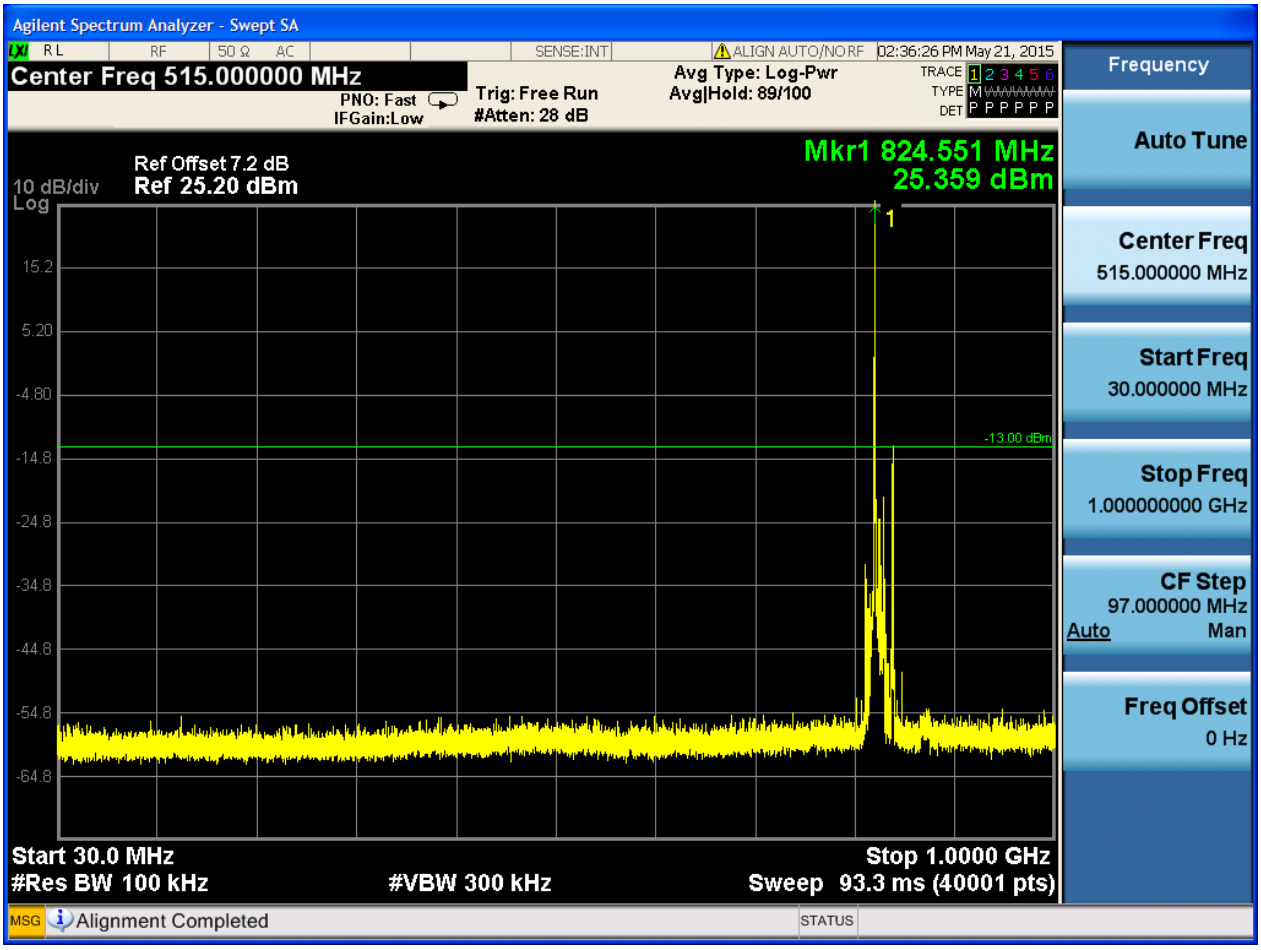

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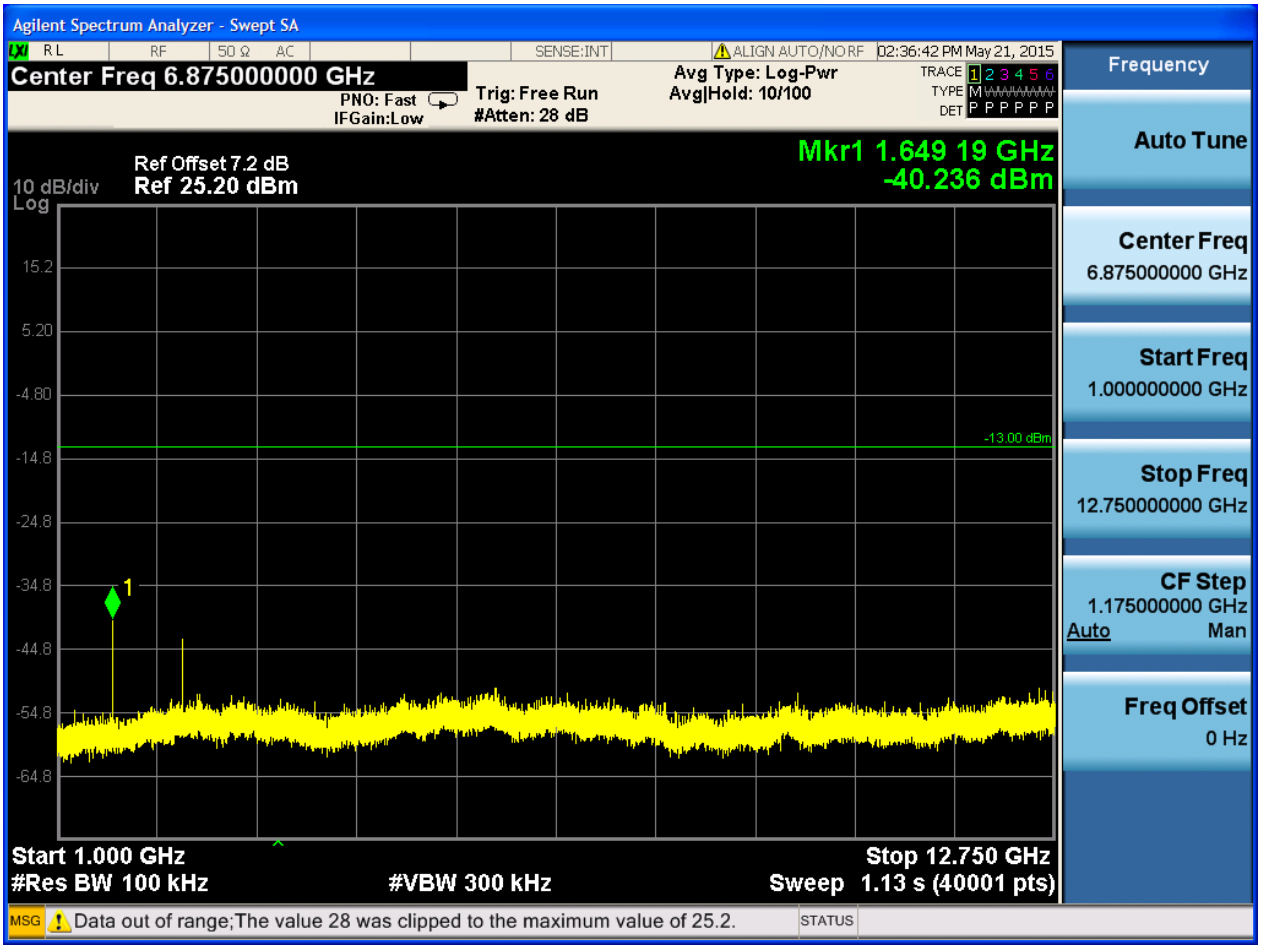

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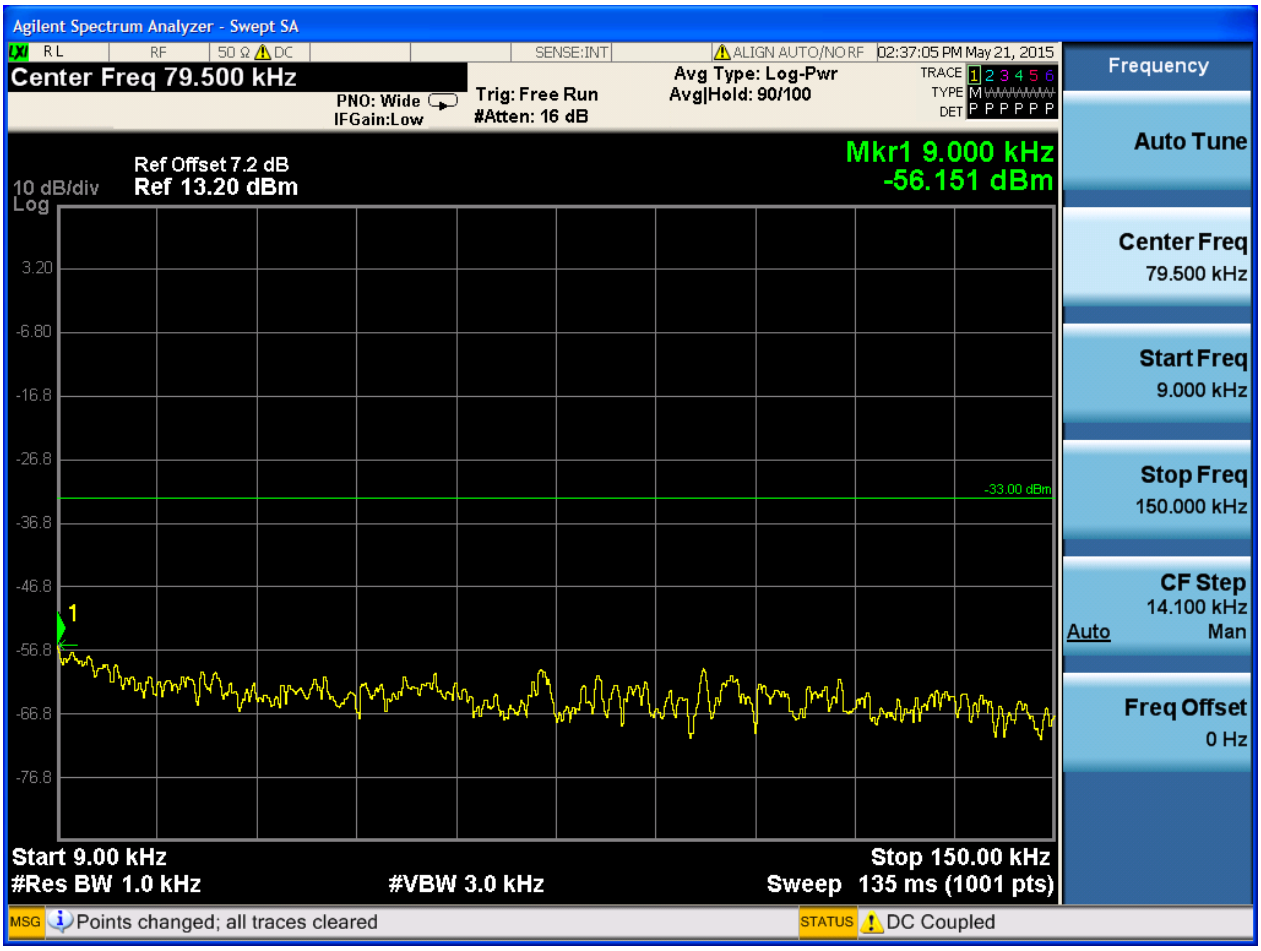
6.1.1.2.1.1 Test Channel = MCH

6.1.1.2.1.1.1 Test RB = RB1#0



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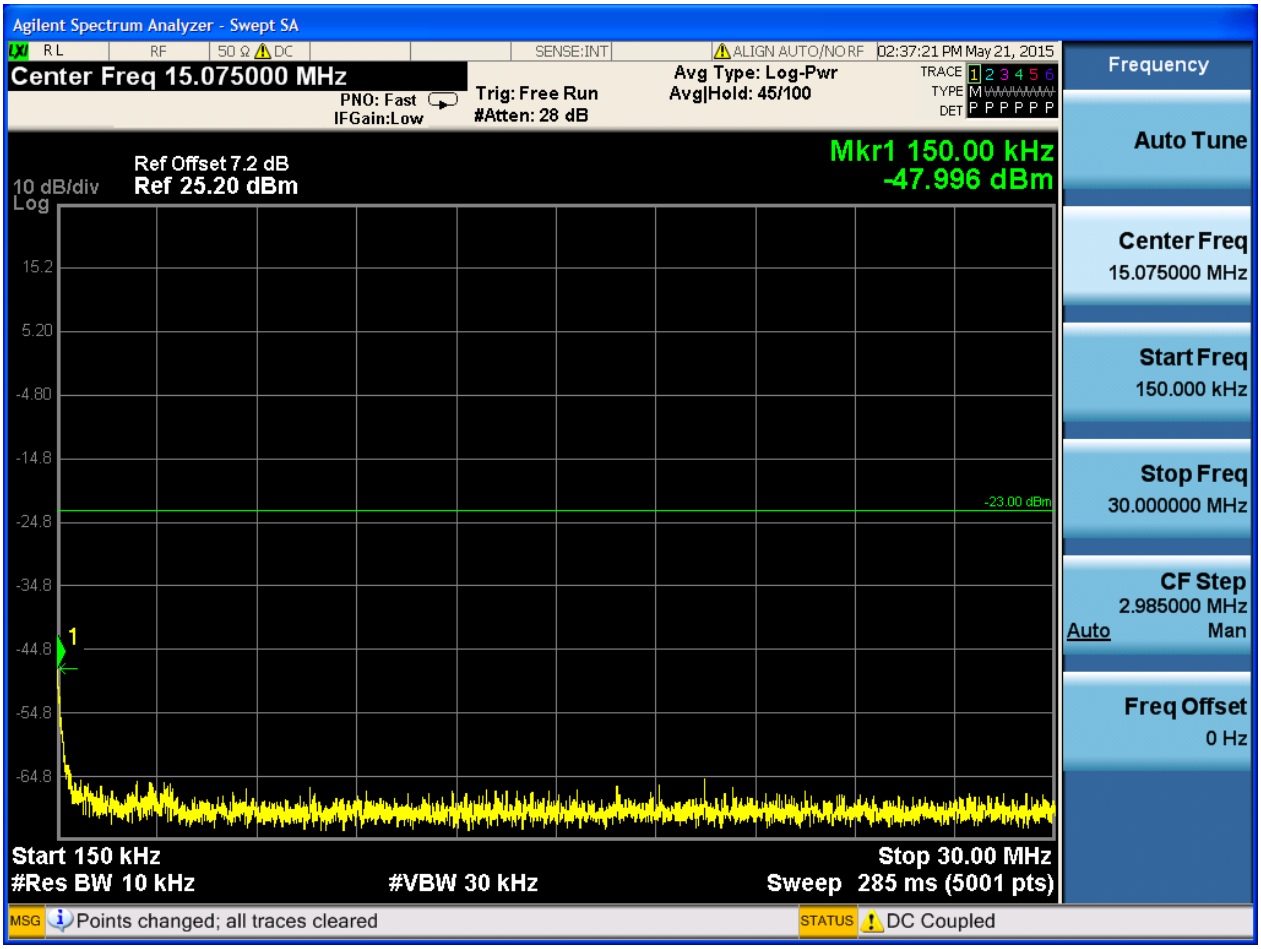

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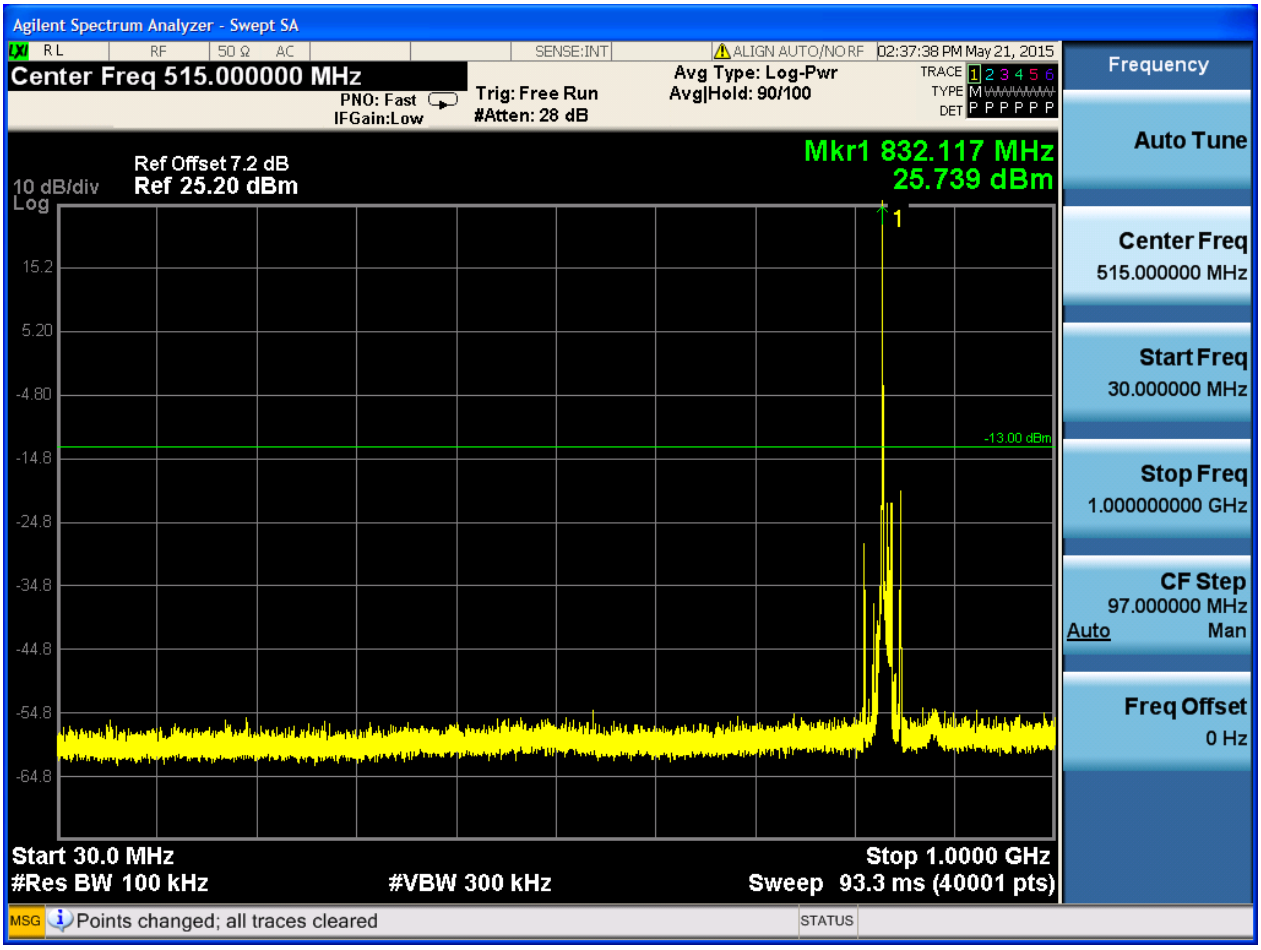

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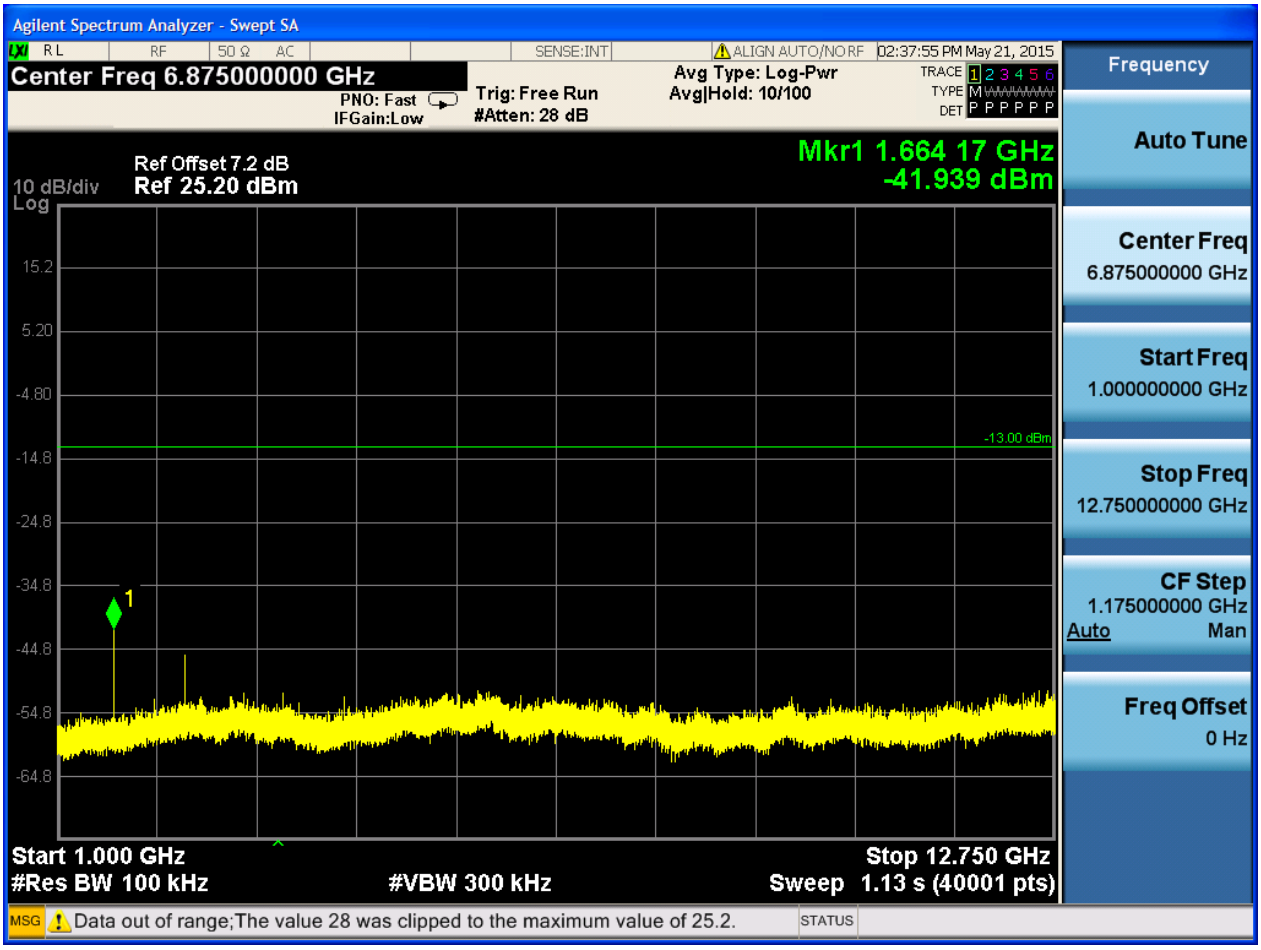

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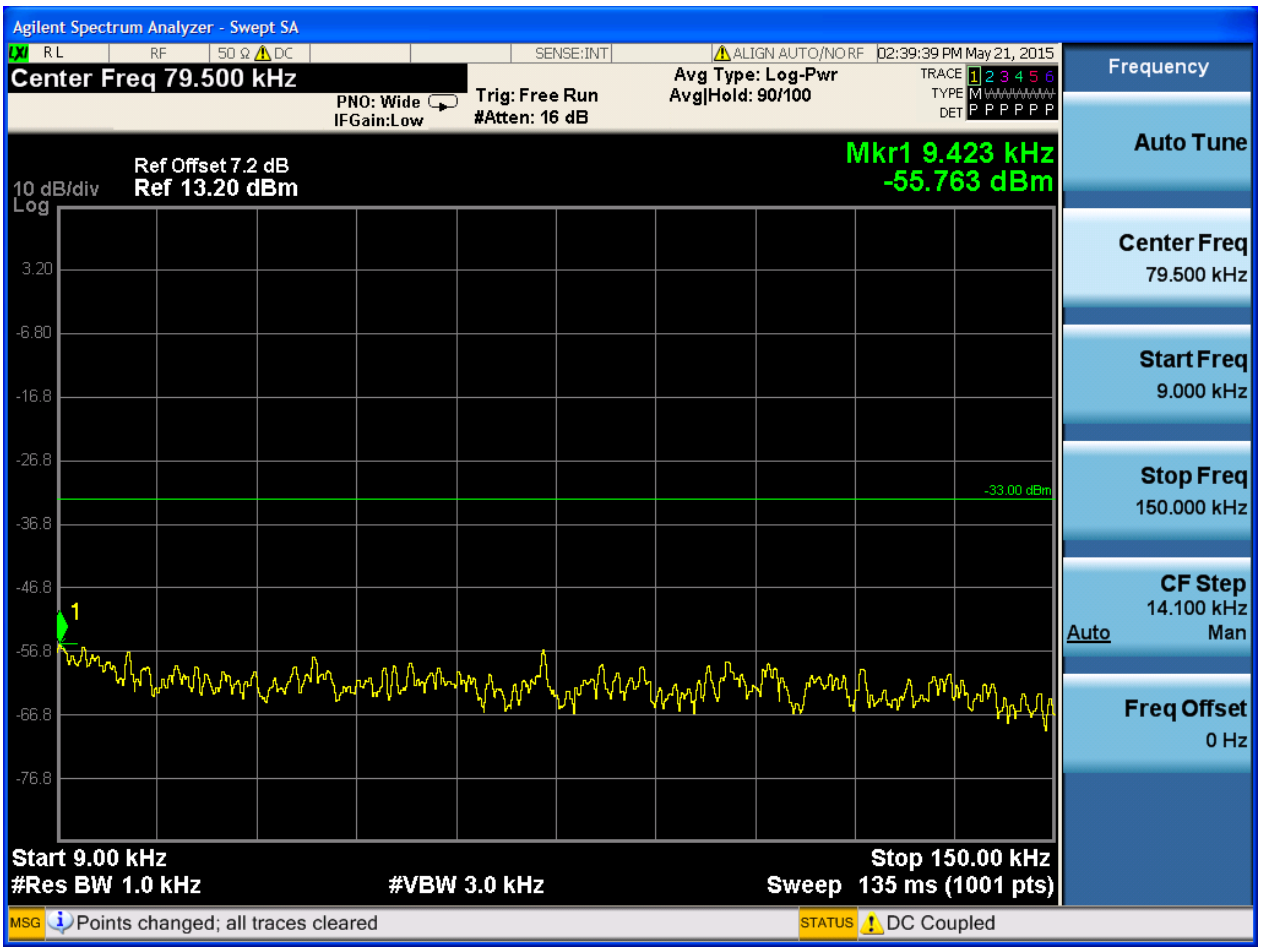
6.1.1.2.1.1 Test Channel = HCH

6.1.1.2.1.1.1 Test RB = RB1#0



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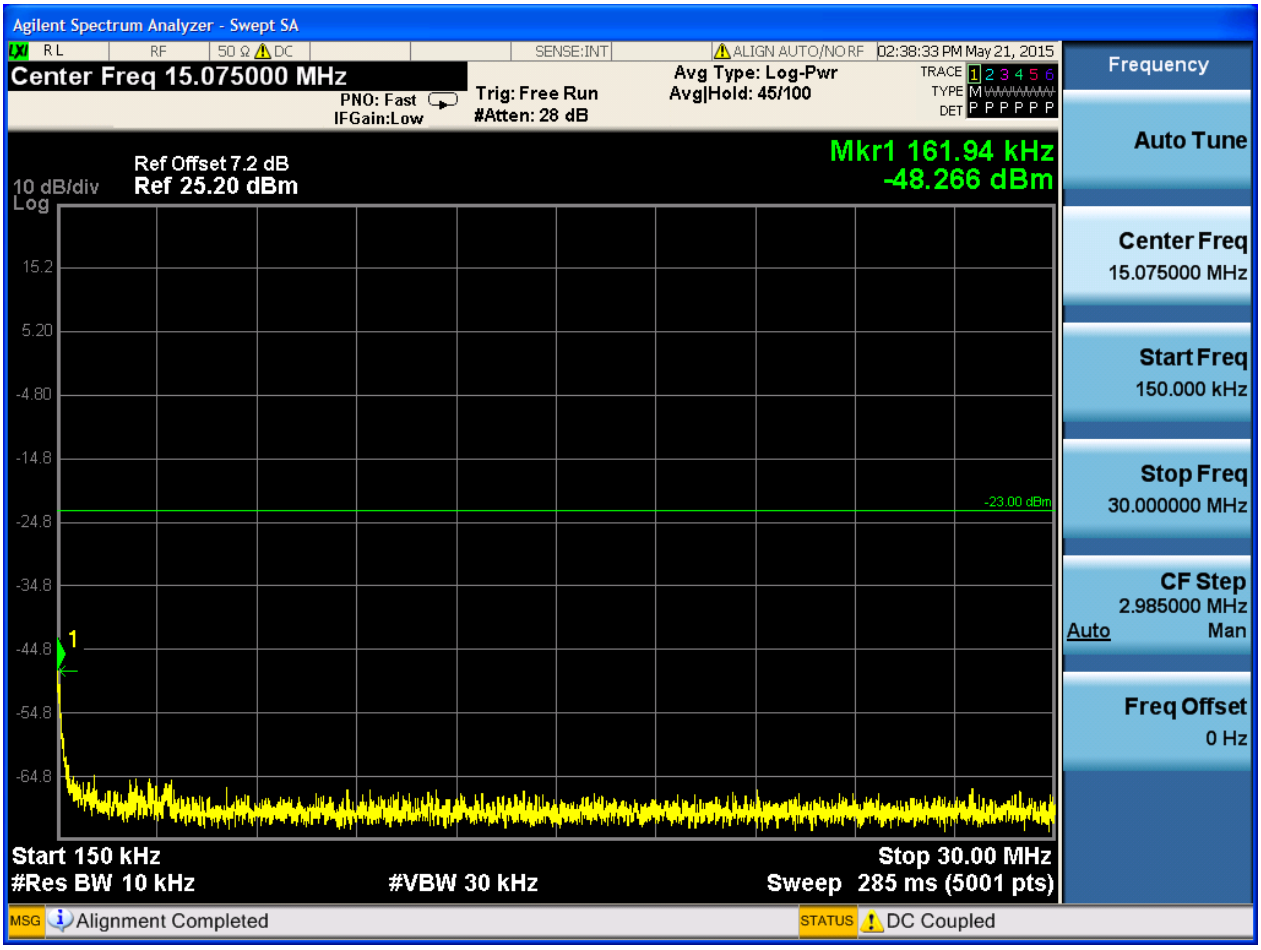

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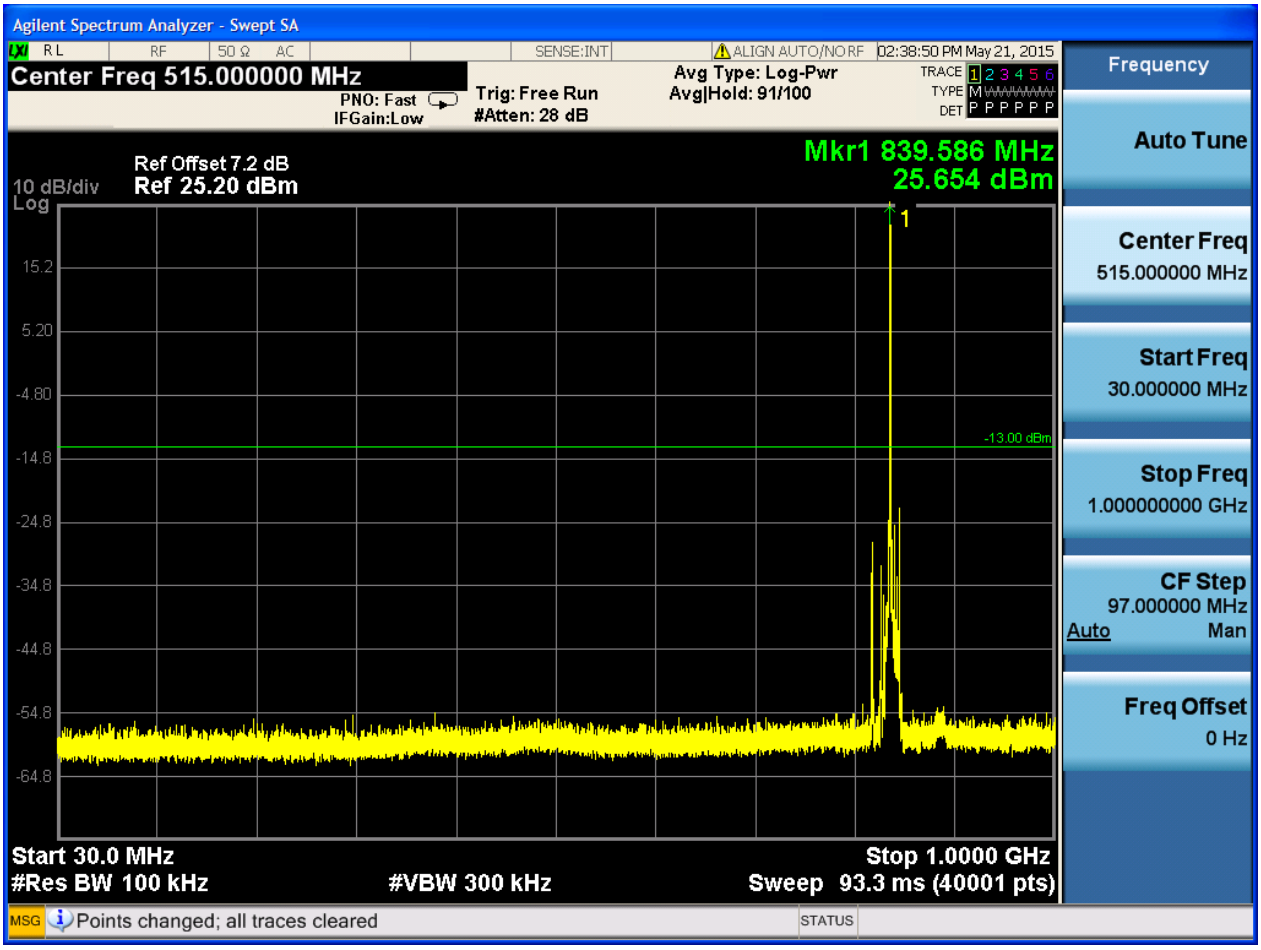

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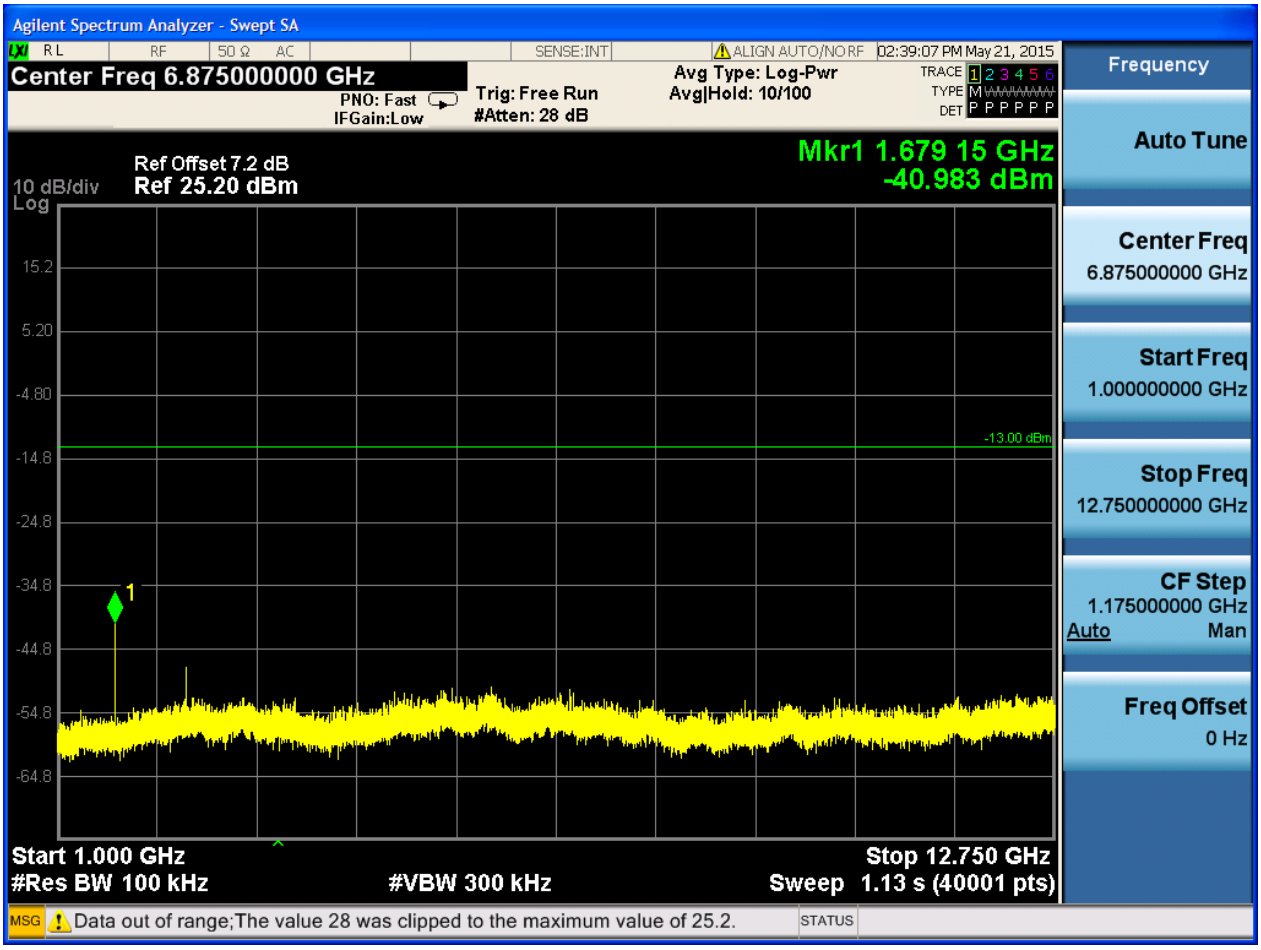

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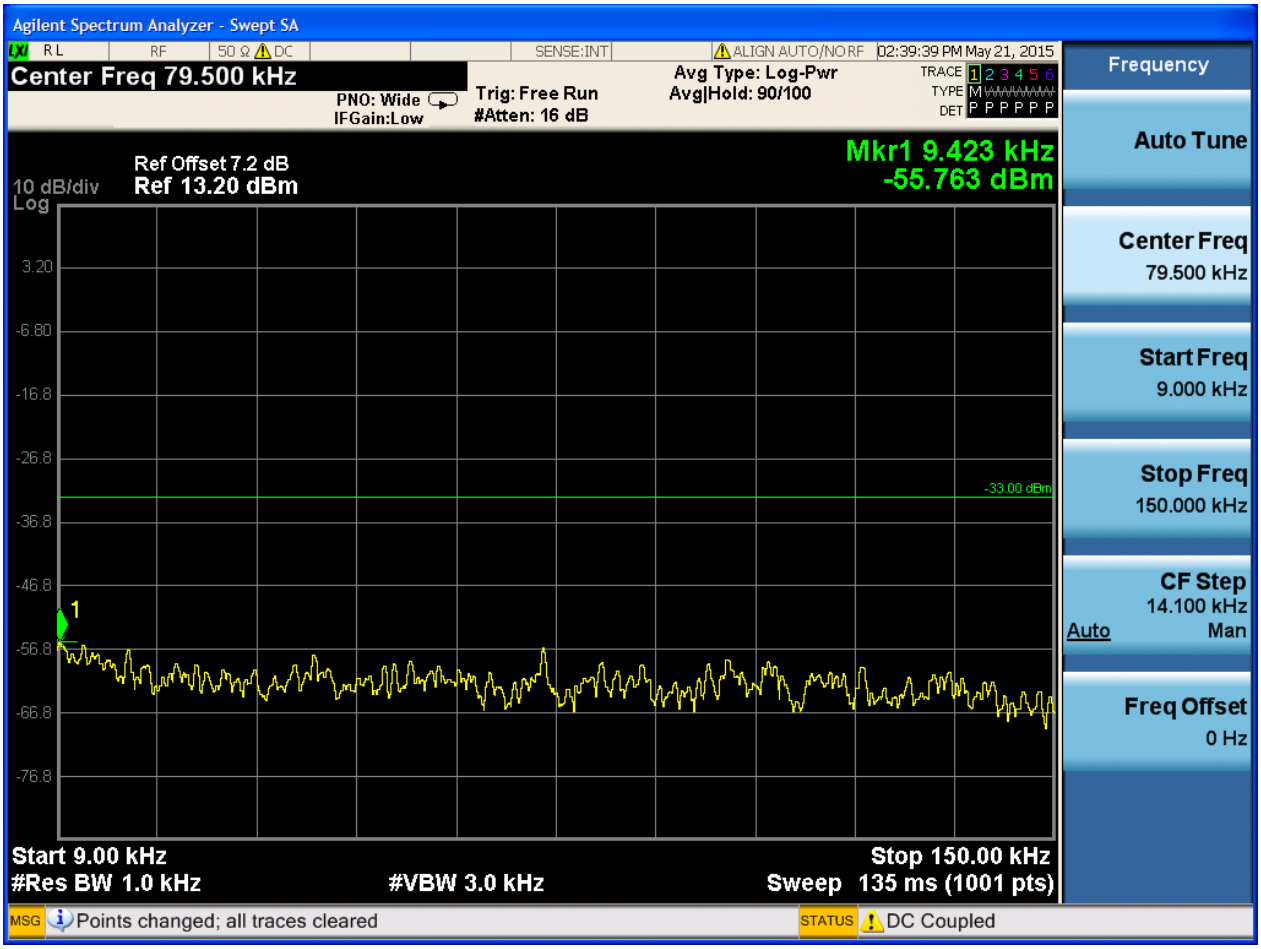
6.1.1.2.1 Test Bandwidth = 15

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



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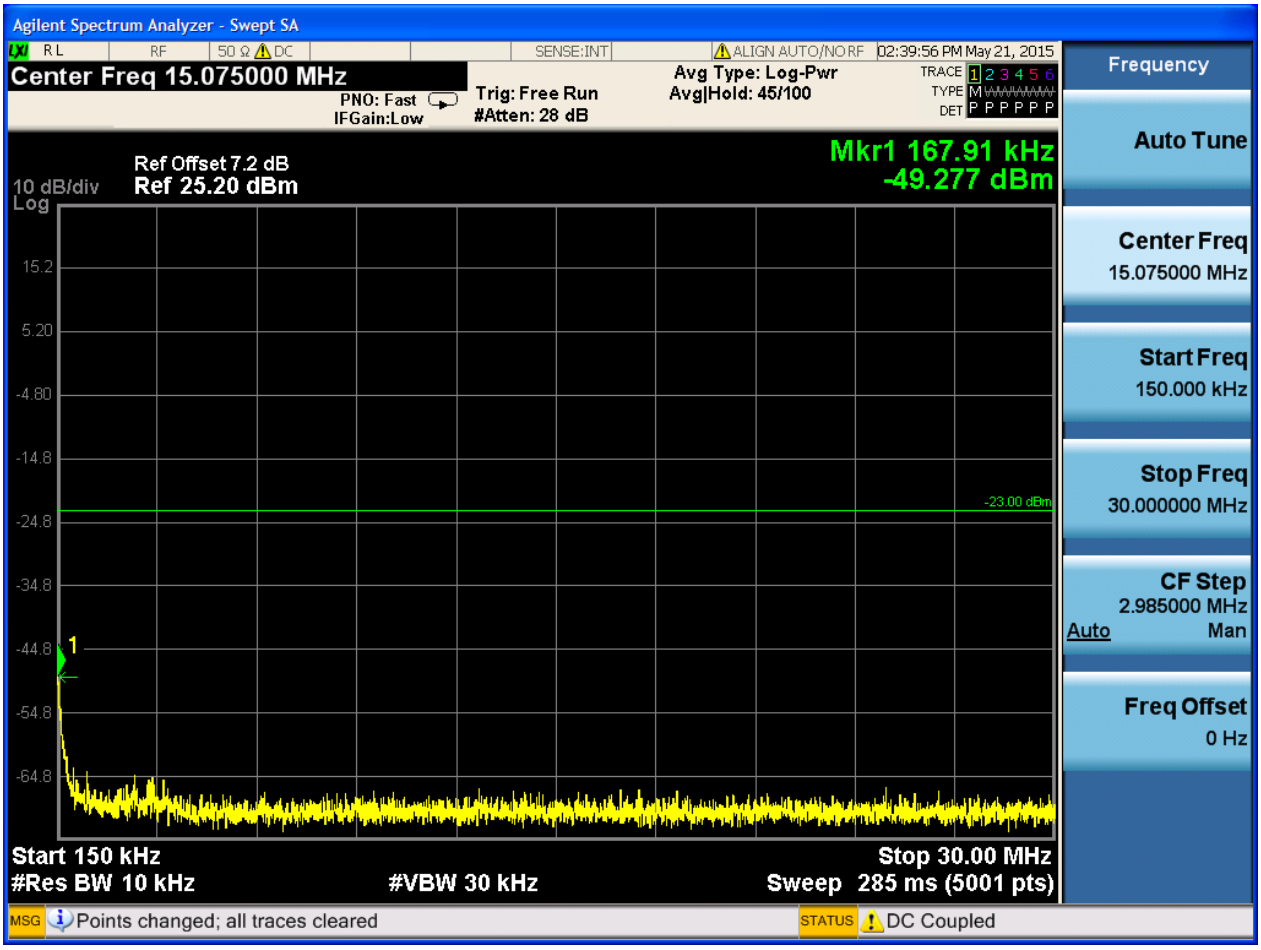

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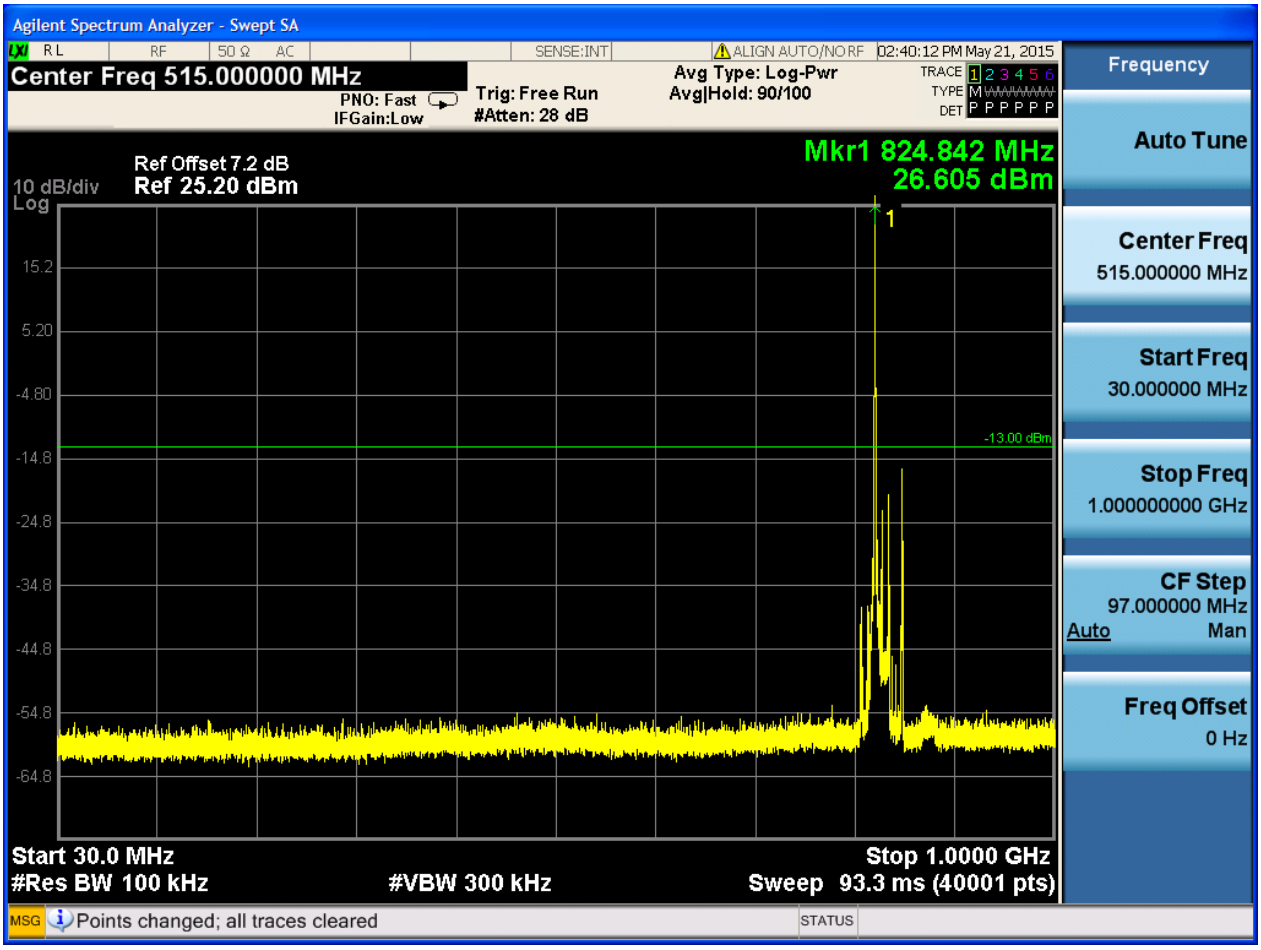

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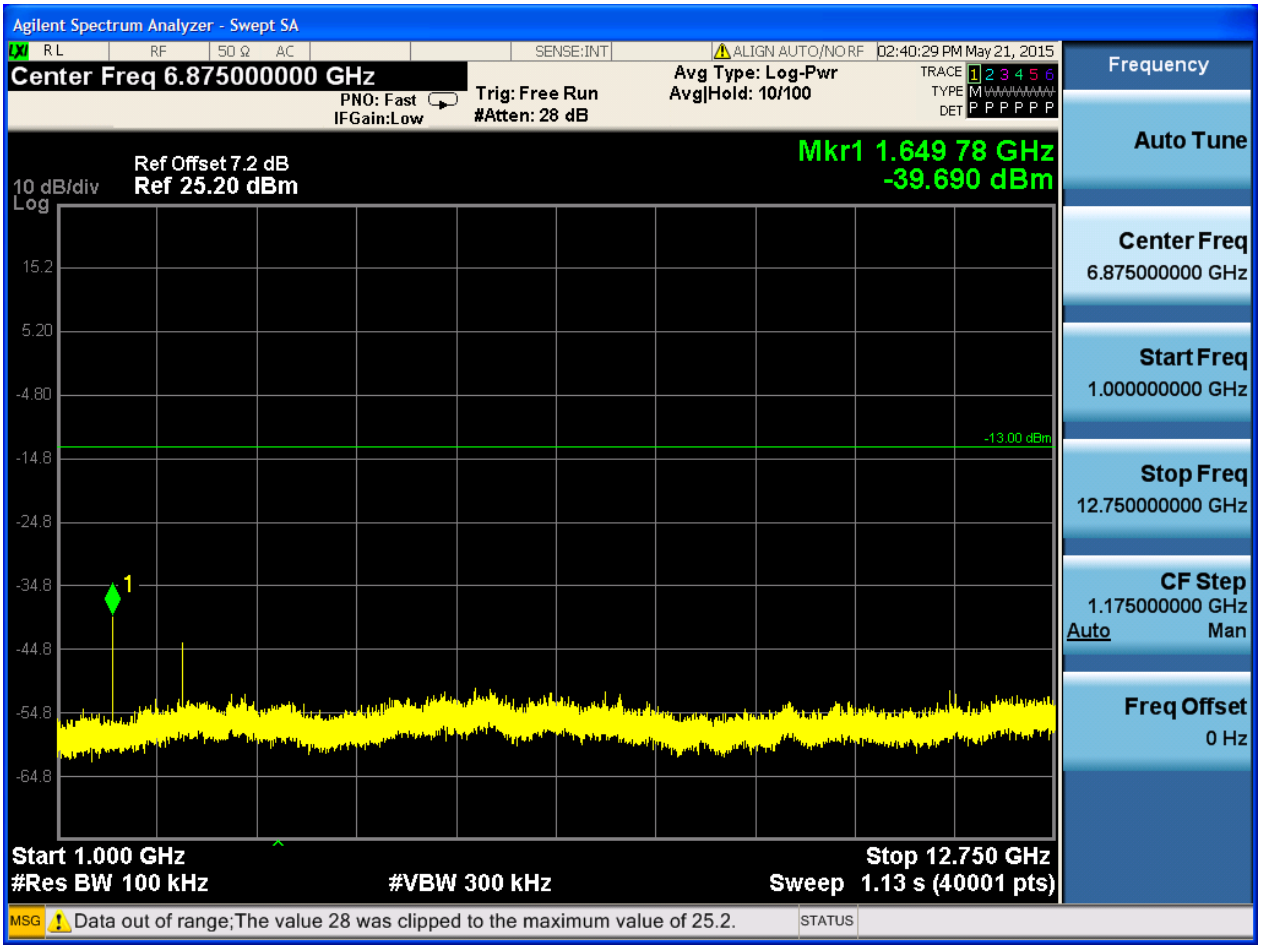

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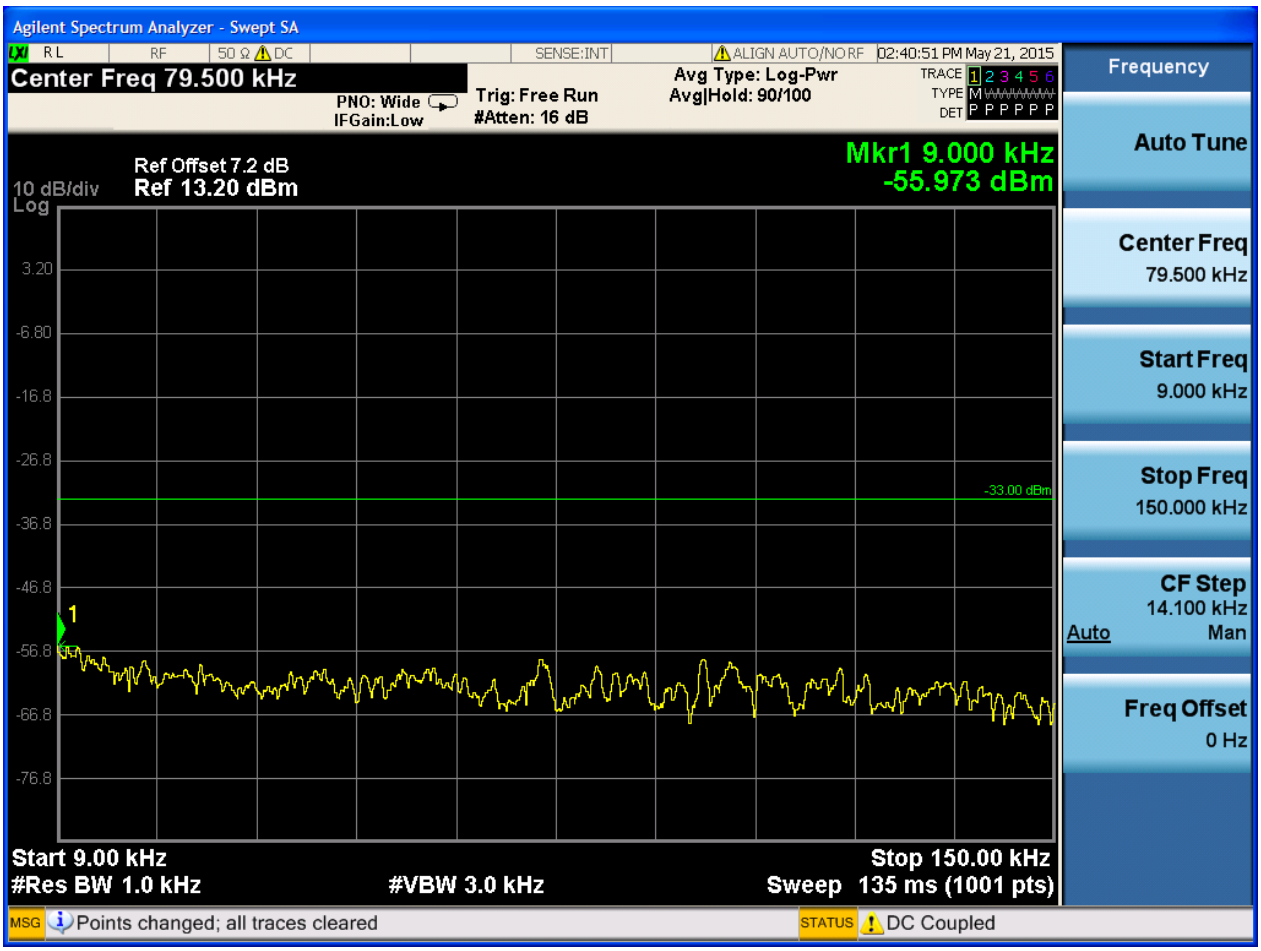
6.1.1.2.1.1 Test Channel =MCH

6.1.1.2.1.1.1 Test RB = RB1#0



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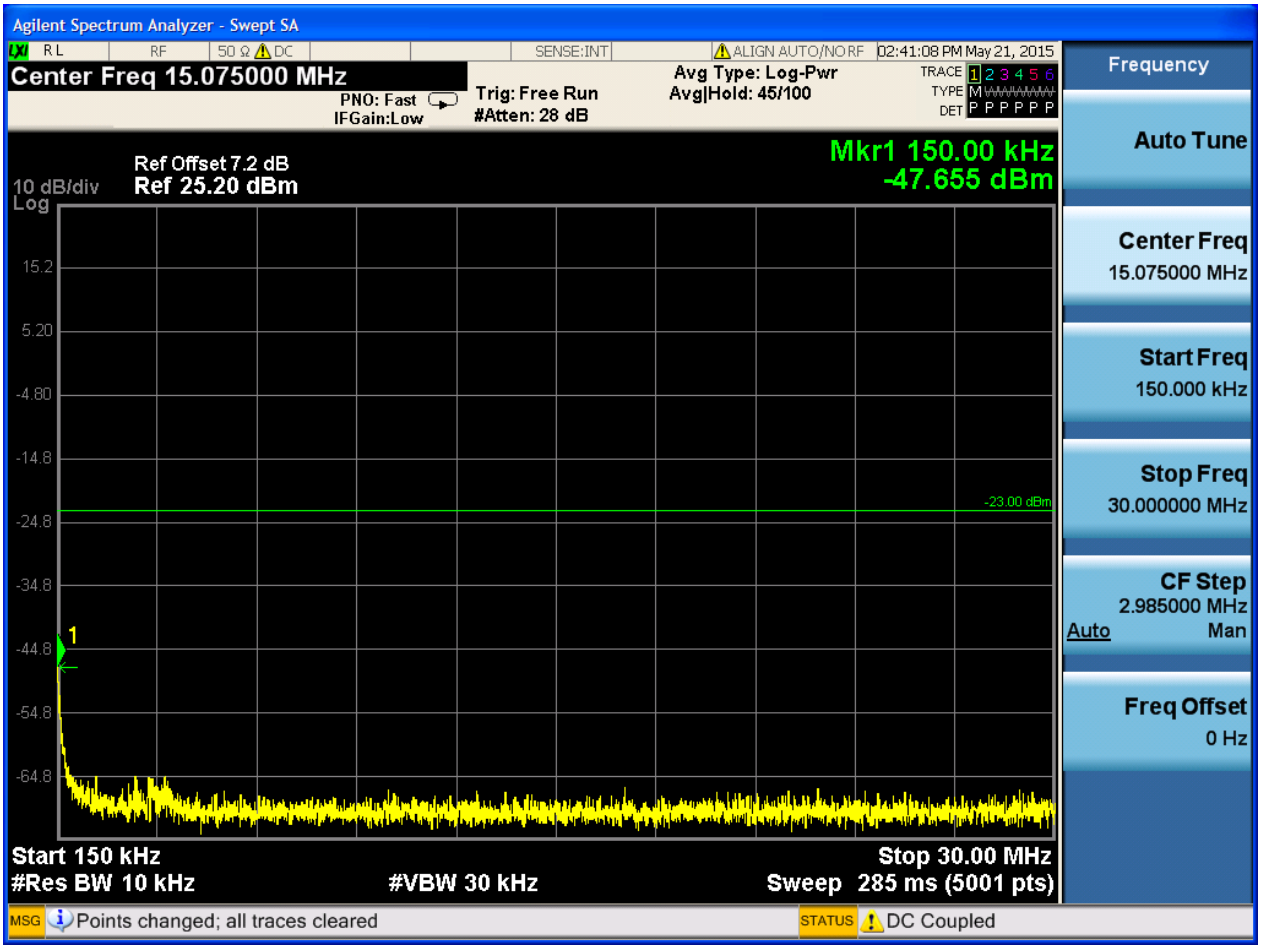

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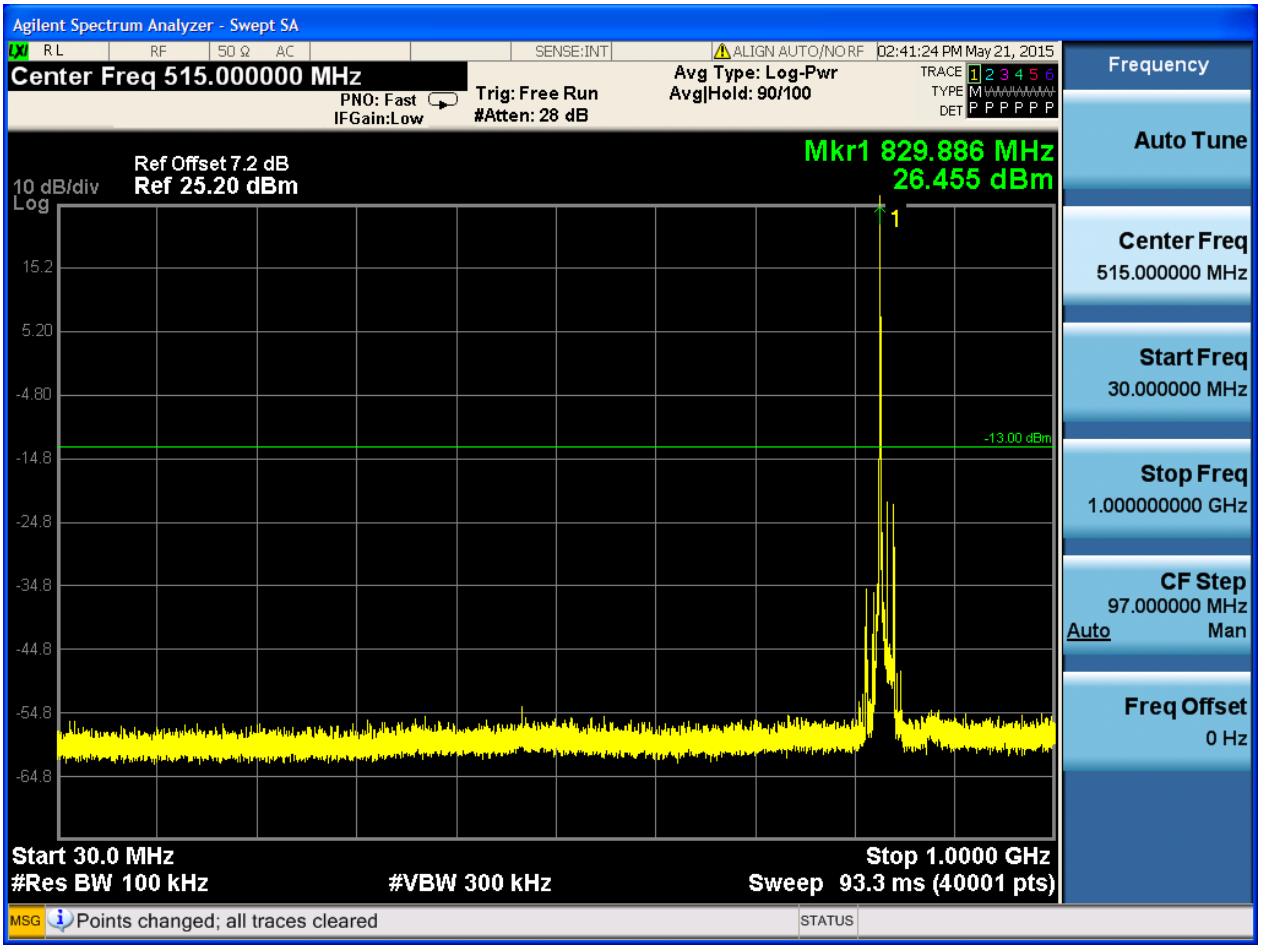

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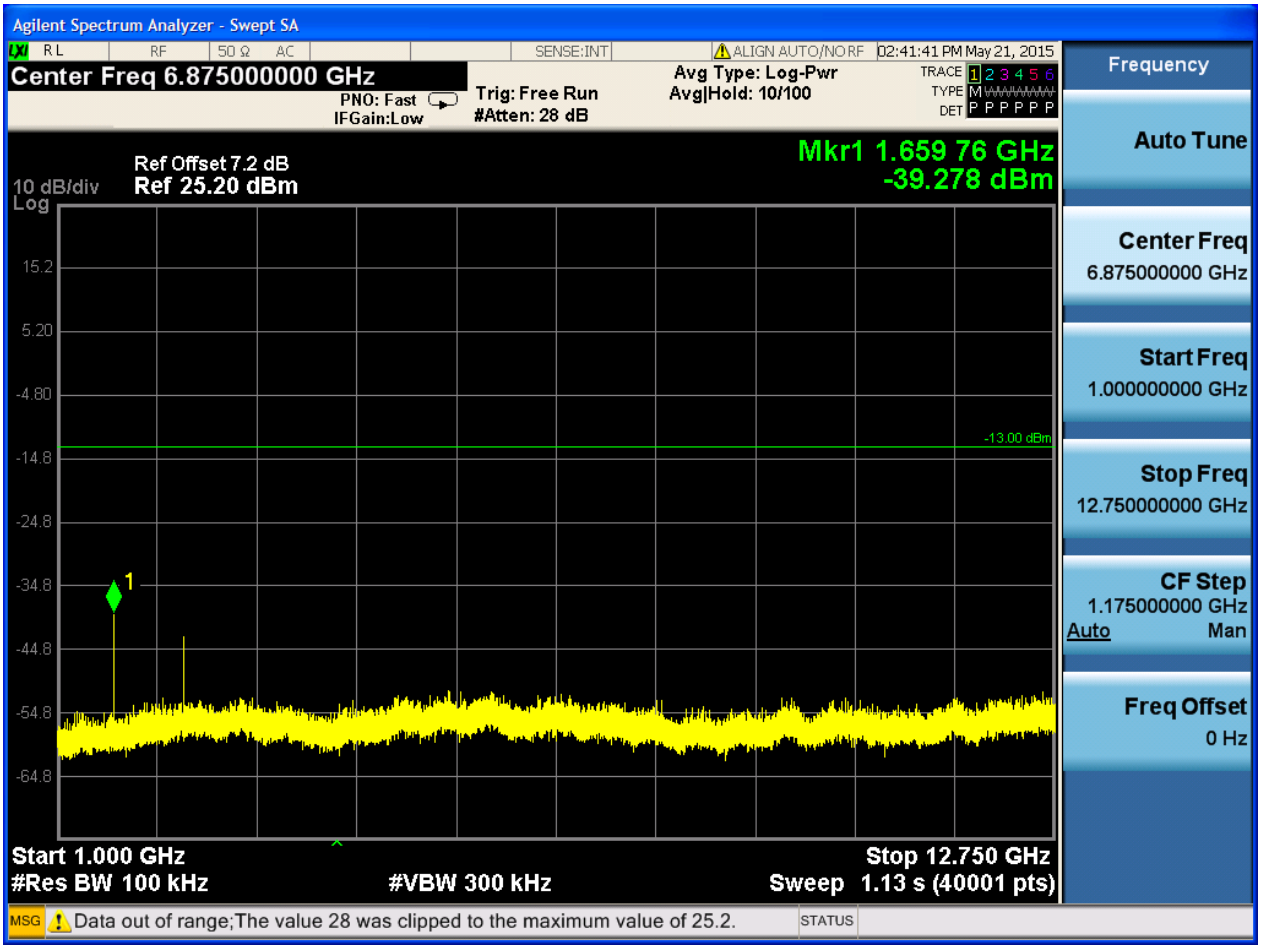

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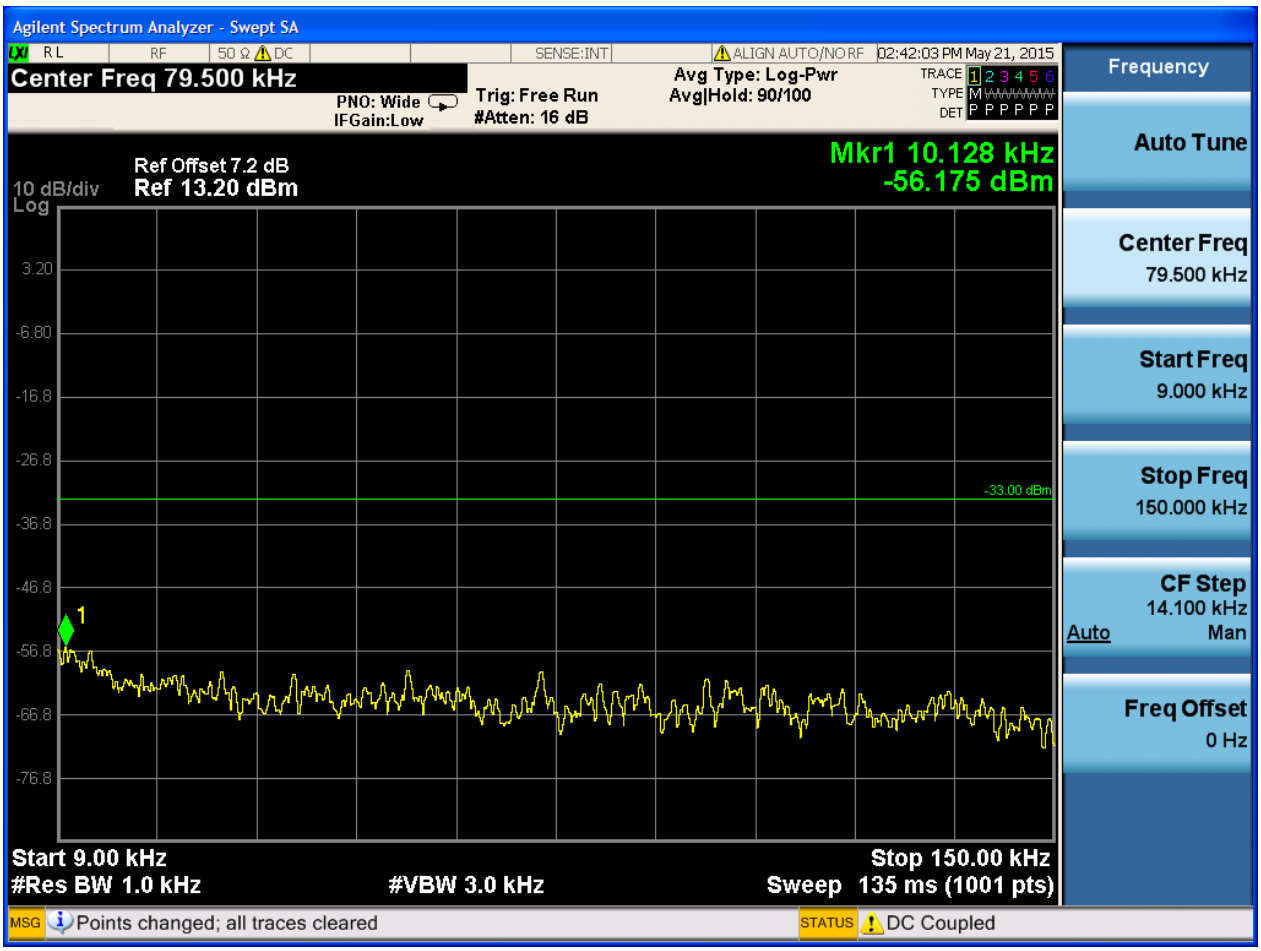
6.1.1.2.1.1 Test Channel = HCH

6.1.1.2.1.1.1 Test RB = RB1#0



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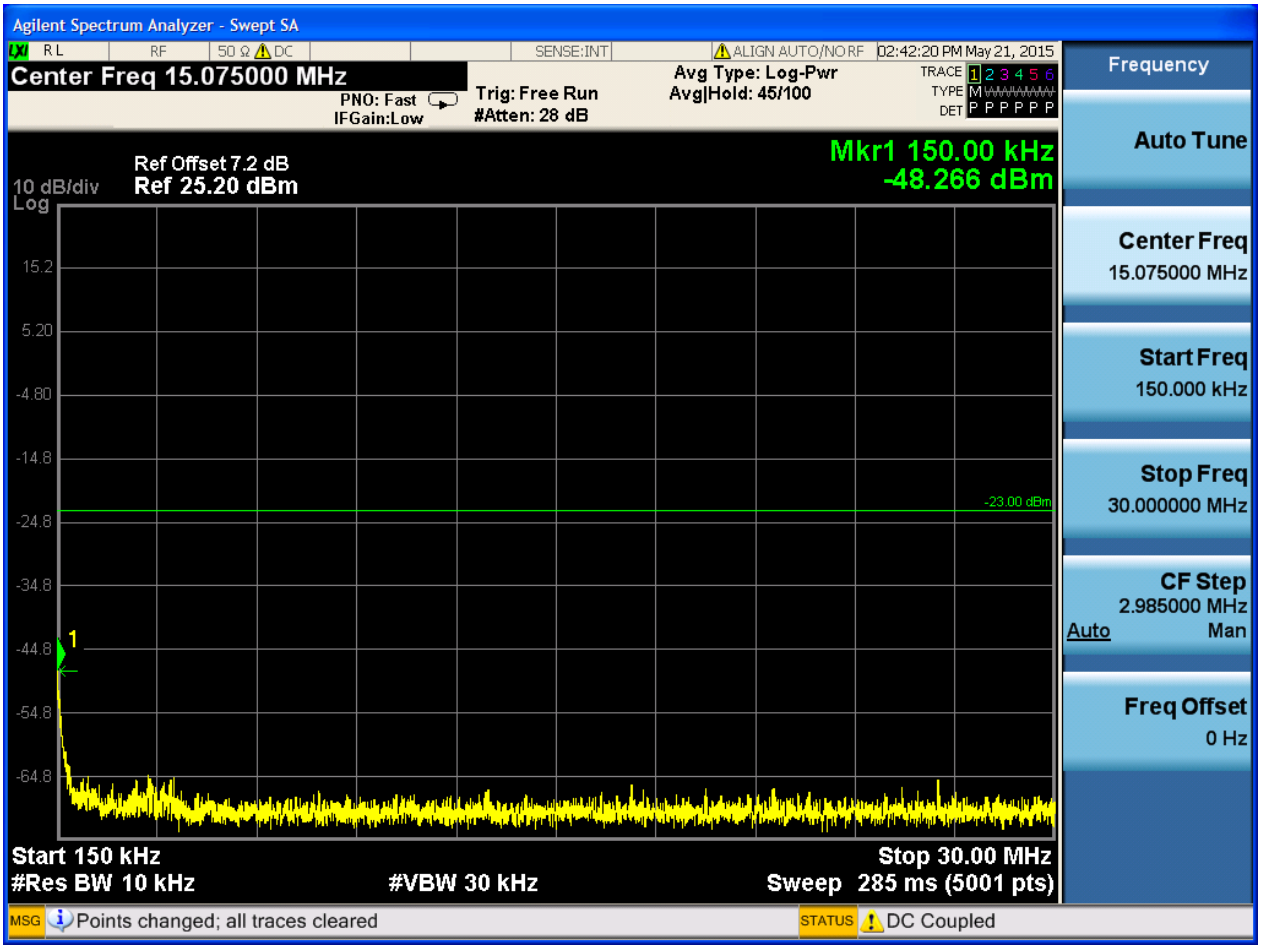

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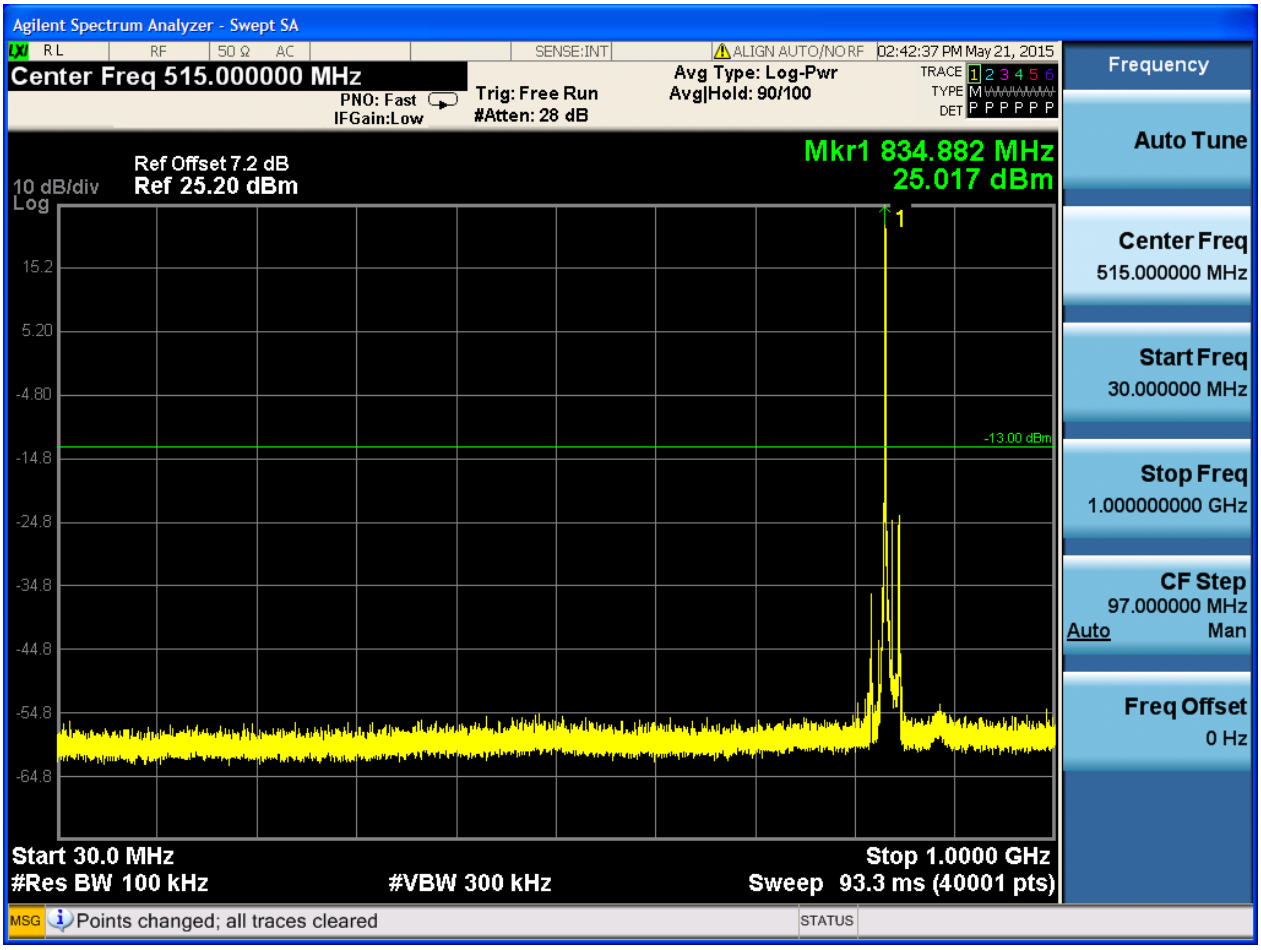

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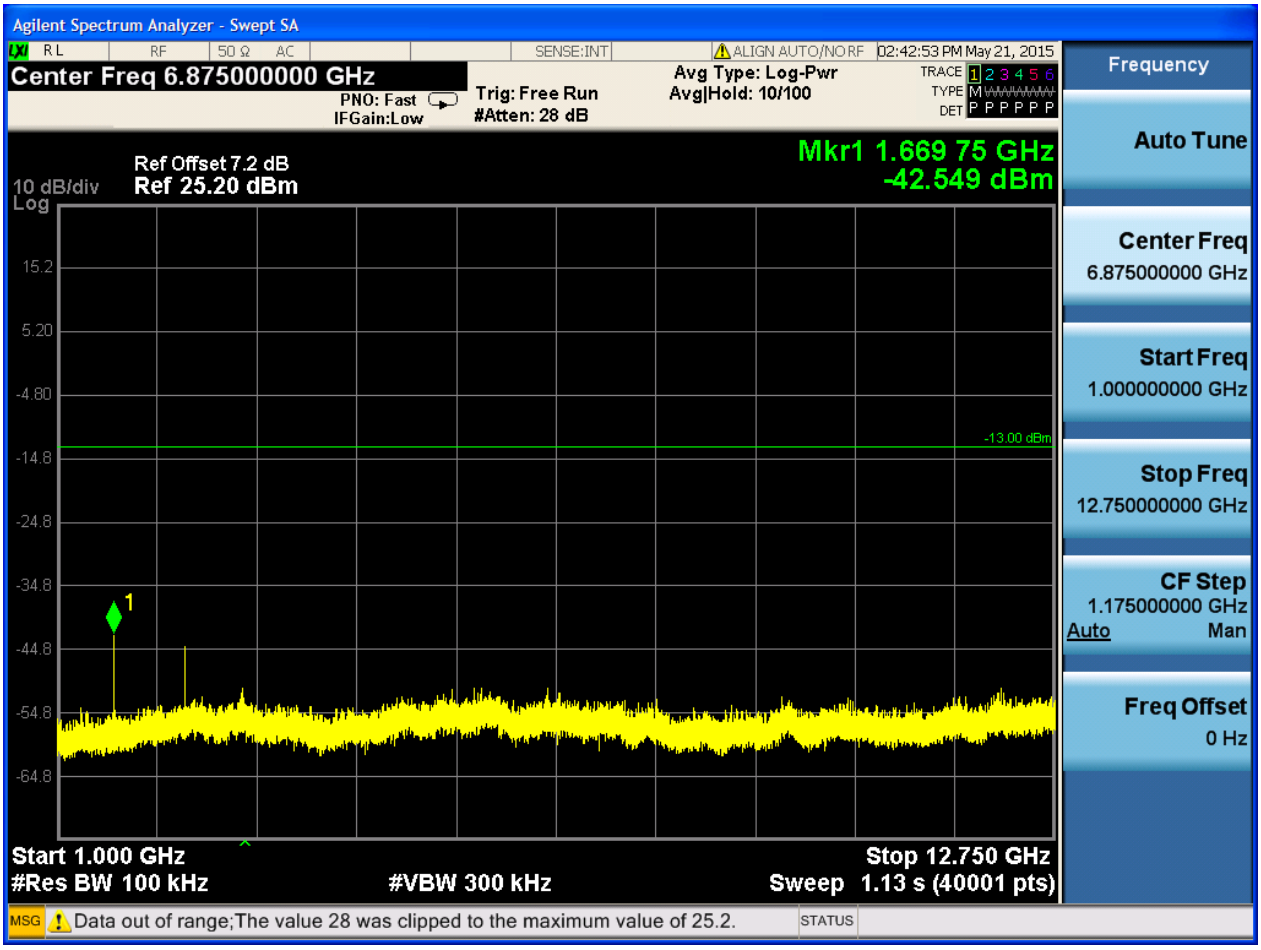

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7Appendix_G: Field Strength of Spurious Radiation

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

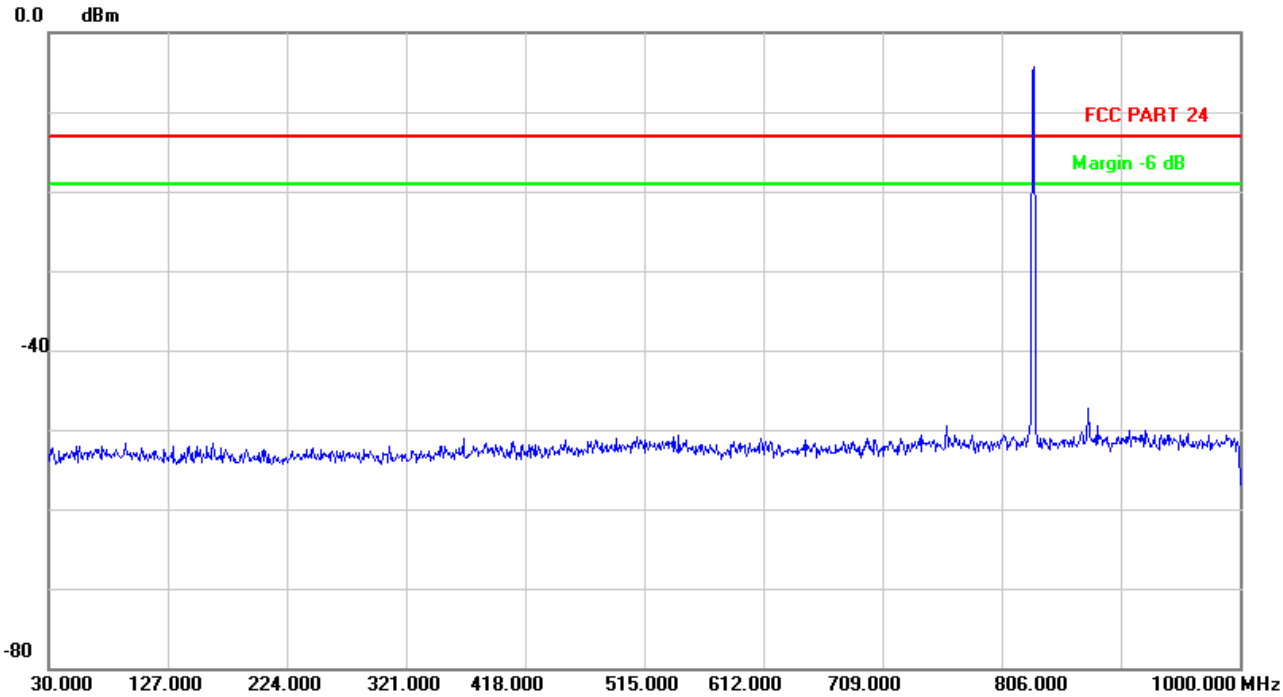
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND26

7.1.1.1 Test Bandwidth = 1.4



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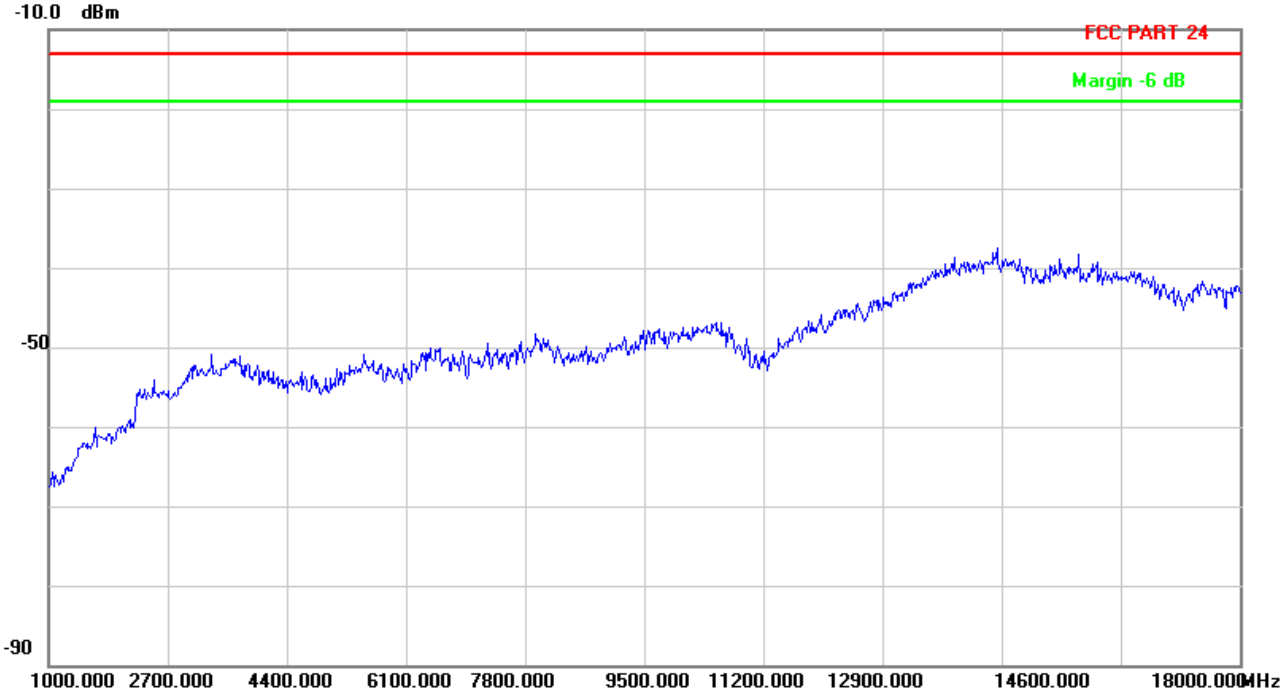

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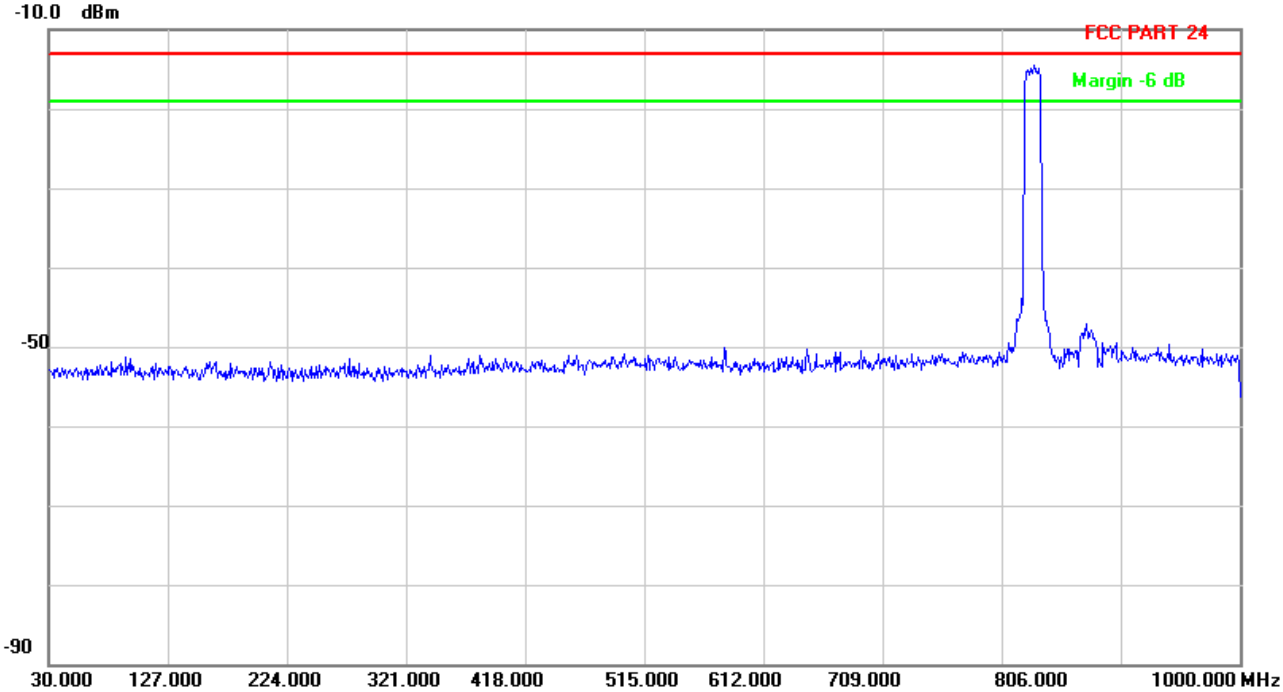
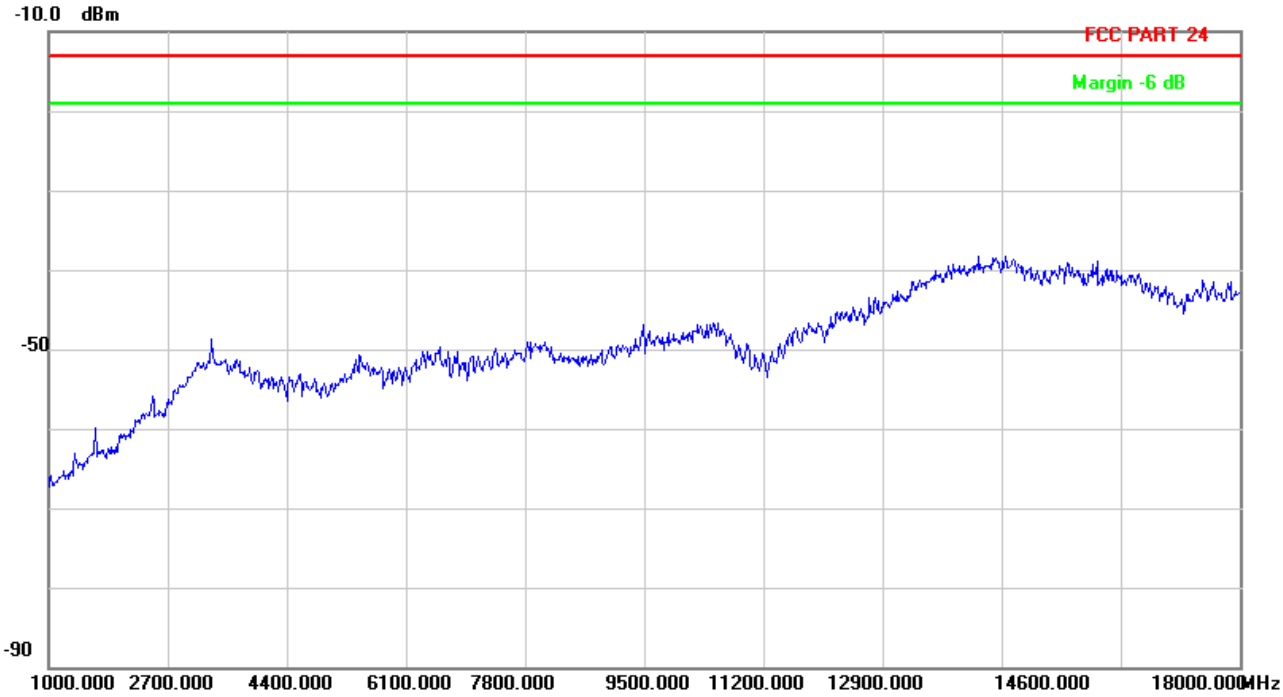
7.1.1.3 Test Bandwidth = 15





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8Appendix_H: Frequency Stability

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
BAND26	LTE/TM1	1.4	LCH	TN	VL	-22.3	-0.02704	PASS
					VN	84.79	0.10281	PASS
					VH	4.19	0.00508	PASS
			MCH	TN	VL	1.72	0.00206	PASS
					VN	11.23	0.01342	PASS
					VH	2.25	0.00269	PASS
			HCH	TN	VL	-5.94	-0.007	PASS
					VN	-4.11	-0.00484	PASS
					VH	2.83	0.00334	PASS
		3	LCH	TN	VL	0.66	0.0008	PASS
					VN	0.7	0.00085	PASS
					VH	-3.12	-0.00378	PASS
			MCH	TN	VL	-1.42	-0.0017	PASS
					VN	-2.59	-0.0031	PASS
					VH	6.78	0.00811	PASS
			HCH	TN	VL	52.16	0.06155	PASS
					VN	3.69	0.00435	PASS
					VH	0.14	0.00017	PASS
		5	LCH	TN	VL	3.73	0.00451	PASS
					VN	1.67	0.00202	PASS
					VH	-0.37	-0.00045	PASS
			MCH	TN	VL	0.11	0.00013	PASS
					VN	-5.66	-0.00677	PASS
					VH	-0.07	-0.00008	PASS
			HCH	TN	VL	-17.68	-0.02089	PASS
					VN	-0.21	-0.00025	PASS
					VH	-12.95	-0.0153	PASS
		10	LCH	TN	VL	-2.79	-0.00337	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	-2.78	-0.00335	PASS
					VH	-1.04	-0.00125	PASS
			MCH	TN	VL	0.8	0.00096	PASS
					VN	-2.7	-0.00323	PASS
					VH	8.28	0.0099	PASS
			HCH	TN	VL	-0.79	-0.00094	PASS
					VN	-0.23	-0.00027	PASS
					VH	-0.49	-0.00058	PASS
		15	LCH	TN	VL	0.92	0.00111	PASS
					VN	0.34	0.00041	PASS
					VH	1.24	0.00149	PASS
			MCH	TN	VL	5.66	0.00677	PASS
					VN	8.48	0.01014	PASS
					VH	3.89	0.00465	PASS
			HCH	TN	VL	2.22	0.00264	PASS
					VN	-0.5	-0.00059	PASS
					VH	0.49	0.00058	PASS
	LTE/TM2	1.4	LCH	TN	VL	58.04	0.07038	PASS
					VN	10.3	0.01249	PASS
					VH	14.98	0.01816	PASS
			MCH	TN	VL	8.63	0.01032	PASS
					VN	3.55	0.00424	PASS
					VH	6.28	0.00751	PASS
			HCH	TN	VL	-15.72	-0.01853	PASS
					VN	76.92	0.09068	PASS
					VH	19.91	0.02347	PASS
		3	LCH	TN	VL	-0.74	-0.0009	PASS
					VN	3.63	0.0044	PASS
					VH	0.73	0.00088	PASS
			MCH	TN	VL	-0.37	-0.00044	PASS
					VN	-0.2	-0.00024	PASS
					VH	0.97	0.00116	PASS
			HCH	TN	VL	2.75	0.00324	PASS
					VN	6.24	0.00736	PASS
					VH	-112.48	-0.13272	PASS
		5	LCH	TN	VL	2.32	0.00281	PASS
					VN	0.99	0.0012	PASS
					VH	1.32	0.0016	PASS
			MCH	TN	VL	9.57	0.01144	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	-3.72	-0.00445	PASS
					VH	1.92	0.0023	PASS
			HCH	TN	VL	-2.22	-0.00262	PASS
					VN	1.82	0.00215	PASS
					VH	1.79	0.00211	PASS
		10	LCH	TN	VL	4.06	0.0049	PASS
					VN	0.53	0.00064	PASS
					VH	-2.4	-0.0029	PASS
			MCH	TN	VL	2.36	0.00282	PASS
					VN	-0.19	-0.00023	PASS
					VH	-0.29	-0.00035	PASS
			HCH	TN	VL	9.24	0.01095	PASS
					VN	-6.12	-0.00725	PASS
					VH	0.24	0.00028	PASS
		15	LCH	TN	VL	-1.79	-0.00215	PASS
					VN	-1.32	-0.00159	PASS
					VH	0.3	0.00036	PASS
			MCH	TN	VL	2.55	0.00305	PASS
					VN	1.62	0.00194	PASS
					VH	3.5	0.00418	PASS
			HCH	TN	VL	0.1	0.00012	PASS
					VN	-0.29	-0.00034	PASS
					VH	2.73	0.00324	PASS

8.1.2Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND26	LTE/TM1	1.4	LCH	VN	-30	-23.16	-0.02808	PASS
					-20	31.37	0.03804	PASS
					-10	14.72	0.01785	PASS
					0	-6.37	-0.00772	PASS
					10	12.06	0.01462	PASS
					20	-3.75	-0.00455	PASS
					30	39.44	0.04782	PASS
					40	-30.78	-0.03732	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
					50	37.14	0.04503	PASS
			MCH	VN	-30	-8.11	-0.0097	PASS
					-20	11.62	0.01389	PASS
					-10	13.53	0.01617	PASS
					0	-11.37	-0.01359	PASS
					10	-15.32	-0.01831	PASS
					20	-3.71	-0.00444	PASS
					30	-0.29	-0.00035	PASS
					40	-1.33	-0.00159	PASS
					50	-12.72	-0.01521	PASS
			HCH	VN	-30	-1.29	-0.00152	PASS
					-20	-44.23	-0.05214	PASS
					-10	4.98	0.00587	PASS
					0	-3.23	-0.00381	PASS
					10	9.31	0.01097	PASS
					20	7.51	0.00885	PASS
					30	-6.44	-0.00759	PASS
					40	1.6	0.00189	PASS
					50	40.54	0.04779	PASS
		3	LCH	VN	-30	10.94	0.01325	PASS
					-20	6.75	0.00818	PASS
					-10	-3.73	-0.00452	PASS
					0	1.22	0.00148	PASS
					10	1.56	0.00189	PASS
					20	4.95	0.006	PASS
					30	-9	-0.0109	PASS
					40	1.1	0.00133	PASS
					50	-4.09	-0.00495	PASS
			MCH	VN	-30	8.74	0.01045	PASS
					-20	0.01	0.00001	PASS
					-10	-3.45	-0.00412	PASS
					0	-5.21	-0.00623	PASS
					10	-2.35	-0.00281	PASS
					20	-1.07	-0.00128	PASS
					30	-1.54	-0.00184	PASS
					40	4.12	0.00493	PASS
					50	-0.5	-0.0006	PASS
			HCH	VN	-30	0.16	0.00019	PASS
					-20	8.1	0.00956	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
					-10	69.19	0.08164	PASS
					0	45.19	0.05332	PASS
					10	4.66	0.0055	PASS
					20	-13.55	-0.01599	PASS
					30	14.16	0.01671	PASS
					40	7.98	0.00942	PASS
					50	64.87	0.07654	PASS
		5	LCH	VN	-30	1.83	0.00221	PASS
					-20	1.75	0.00212	PASS
					-10	2.6	0.00315	PASS
					0	6.67	0.00807	PASS
					10	4.36	0.00528	PASS
					20	-2.26	-0.00273	PASS
					30	0	0	PASS
					40	3.12	0.00377	PASS
					50	5.97	0.00722	PASS
			MCH	VN	-30	-1.6	-0.00191	PASS
					-20	0.67	0.0008	PASS
					-10	-8.41	-0.01005	PASS
					0	4.56	0.00545	PASS
					10	-1.19	-0.00142	PASS
					20	-3.38	-0.00404	PASS
					30	-4.43	-0.0053	PASS
					40	-1.92	-0.0023	PASS
					50	1.4	0.00167	PASS
			HCH	VN	-30	-61.35	-0.07247	PASS
					-20	0.97	0.00115	PASS
					-10	-2.95	-0.00348	PASS
					0	-14.82	-0.01751	PASS
					10	-14.73	-0.0174	PASS
					20	10.99	0.01298	PASS
					30	8.05	0.00951	PASS
					40	10.39	0.01227	PASS
					50	-14.41	-0.01702	PASS
		10	LCH	VN	-30	-4.35	-0.00525	PASS
					-20	9.74	0.01175	PASS
					-10	19.56	0.02359	PASS
					0	37.29	0.04498	PASS
					10	-0.57	-0.00069	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
					20	0.43	0.00052	PASS
					30	-2.3	-0.00277	PASS
					40	-1.79	-0.00216	PASS
					50	-7.12	-0.00859	PASS
			MCH	VN	-30	18.32	0.0219	PASS
					-20	-26.98	-0.03225	PASS
					-10	7.22	0.00863	PASS
					0	-3.45	-0.00412	PASS
					10	-1.12	-0.00134	PASS
					20	2.3	0.00275	PASS
					30	-3.28	-0.00392	PASS
					40	-0.1	-0.00012	PASS
					50	2.1	0.00251	PASS
			HCH	VN	-30	0.4	0.00047	PASS
					-20	2.26	0.00268	PASS
					-10	0.99	0.00117	PASS
					0	-0.34	-0.0004	PASS
					10	-0.62	-0.00073	PASS
					20	-0.87	-0.00103	PASS
					30	0.06	0.00007	PASS
					40	-0.94	-0.00111	PASS
					50	-1.12	-0.00133	PASS
		15	LCH	VN	-30	0.87	0.00105	PASS
					-20	3.06	0.00368	PASS
					-10	2.03	0.00244	PASS
					0	-0.31	-0.00037	PASS
					10	4.13	0.00497	PASS
					20	-1.33	-0.0016	PASS
					30	-0.19	-0.00023	PASS
					40	-2.56	-0.00308	PASS
					50	-2	-0.00241	PASS
			MCH	VN	-30	-1.42	-0.0017	PASS
					-20	0.44	0.00053	PASS
					-10	2.9	0.00347	PASS
					0	-4.06	-0.00485	PASS
					10	6.92	0.00827	PASS
					20	-10.6	-0.01267	PASS
					30	8.58	0.01026	PASS
					40	17.98	0.02149	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
					50	-9.84	-0.01176	PASS
			HCH	VN	-30	0	0	PASS
					-20	0.76	0.0009	PASS
					-10	0.07	0.00008	PASS
					0	0.63	0.00075	PASS
					10	-0.49	-0.00058	PASS
					20	-0.29	-0.00034	PASS
					30	0.03	0.00004	PASS
					40	-2.29	-0.00272	PASS
					50	-0.4	-0.00048	PASS
	LTE/TM2	1.4	LCH	VN	-30	-5.69	-0.0069	PASS
					-20	17.18	0.02083	PASS
					-10	1.92	0.00233	PASS
					0	18.35	0.02225	PASS
					10	-31.26	-0.0379	PASS
					20	28.62	0.0347	PASS
					30	-12.43	-0.01507	PASS
					40	5.99	0.00726	PASS
					50	-121.31	-0.1471	PASS
			MCH	VN	-30	-0.73	-0.00087	PASS
					-20	0.63	0.00075	PASS
					-10	-12.45	-0.01488	PASS
					0	-5.09	-0.00608	PASS
					10	-10.94	-0.01308	PASS
					20	-2.98	-0.00356	PASS
					30	-5.97	-0.00714	PASS
					40	4.08	0.00488	PASS
					50	1.39	0.00166	PASS
			HCH	VN	-30	-9.03	-0.01064	PASS
					-20	-1.5	-0.00177	PASS
					-10	13.2	0.01556	PASS
					0	2	0.00236	PASS
					10	-22.56	-0.02659	PASS
					20	-3.76	-0.00443	PASS
					30	-2.66	-0.00314	PASS
					40	-2.36	-0.00278	PASS
					50	-6.31	-0.00744	PASS
		3	LCH	VN	-30	0.83	0.00101	PASS
					-20	19.54	0.02367	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
					-10	2.68	0.00325	PASS
					0	1.53	0.00185	PASS
					10	10.34	0.01253	PASS
					20	-8	-0.00969	PASS
					30	-5.97	-0.00723	PASS
					40	8.64	0.01047	PASS
					50	4.86	0.00589	PASS
			MCH	VN	-30	-1.24	-0.00148	PASS
					-20	6.21	0.00742	PASS
					-10	-9.3	-0.01112	PASS
					0	-2.22	-0.00265	PASS
					10	5.01	0.00599	PASS
					20	0.33	0.00039	PASS
					30	1.5	0.00179	PASS
					40	-1.04	-0.00124	PASS
					50	-1.33	-0.00159	PASS
			HCH	VN	-30	7.91	0.00933	PASS
					-20	-5.48	-0.00647	PASS
					-10	10.71	0.01264	PASS
					0	69.69	0.08223	PASS
					10	0.27	0.00032	PASS
					20	2.85	0.00336	PASS
					30	9.93	0.01172	PASS
					40	1.52	0.00179	PASS
					50	-13.56	-0.016	PASS
		5	LCH	VN	-30	5.38	0.00651	PASS
					-20	0.34	0.00041	PASS
					-10	3.88	0.00469	PASS
					0	-2.3	-0.00278	PASS
					10	1.87	0.00226	PASS
					20	-8.17	-0.00989	PASS
					30	-0.51	-0.00062	PASS
					40	2.09	0.00253	PASS
					50	-1.03	-0.00125	PASS
			MCH	VN	-30	0.39	0.00047	PASS
					-20	0.57	0.00068	PASS
					-10	-7.31	-0.00874	PASS
					0	-2.02	-0.00241	PASS
					10	-2	-0.00239	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
					20	3.91	0.00467	PASS
					30	-1.04	-0.00124	PASS
					40	-3.59	-0.00429	PASS
					50	4.68	0.00559	PASS
			HCH	VN	-30	-4.75	-0.00561	PASS
					-20	14.02	0.01656	PASS
					-10	4.41	0.00521	PASS
					0	8.47	0.01001	PASS
					10	-3.65	-0.00431	PASS
					20	-2.19	-0.00259	PASS
					30	-5.38	-0.00636	PASS
					40	-1.17	-0.00138	PASS
					50	13.56	0.01602	PASS
		10	LCH	VN	-30	4.41	0.00532	PASS
					-20	0.03	0.00004	PASS
					-10	-3.93	-0.00474	PASS
					0	1.53	0.00185	PASS
					10	-1.22	-0.00147	PASS
					20	16.05	0.01936	PASS
					30	0.03	0.00004	PASS
					40	-2.4	-0.0029	PASS
					50	-8.94	-0.01078	PASS
			MCH	VN	-30	4.23	0.00506	PASS
					-20	-3.23	-0.00386	PASS
					-10	-3.66	-0.00438	PASS
					0	5.85	0.00699	PASS
					10	-2.39	-0.00286	PASS
					20	-5.29	-0.00632	PASS
					30	3.25	0.00389	PASS
					40	-5.26	-0.00629	PASS
					50	-5.95	-0.00711	PASS
			HCH	VN	-30	-3.95	-0.00468	PASS
					-20	1.92	0.00227	PASS
					-10	-3.53	-0.00418	PASS
					0	-2.39	-0.00283	PASS
					10	2.23	0.00264	PASS
					20	-3.69	-0.00437	PASS
					30	-0.17	-0.0002	PASS
					40	-1.8	-0.00213	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
					50	3.86	0.00457	PASS
		15	LCH	VN	-30	1.26	0.00152	PASS
					-20	0.29	0.00035	PASS
					-10	5.29	0.00636	PASS
					0	0.83	0.001	PASS
					10	18.63	0.02241	PASS
					20	-1.09	-0.00131	PASS
					30	0.4	0.00048	PASS
					40	5.12	0.00616	PASS
					50	-1.24	-0.00149	PASS
			MCH	VN	-30	5.51	0.00659	PASS
					-20	-3.29	-0.00393	PASS
					-10	0.96	0.00115	PASS
					0	-0.9	-0.00108	PASS
					10	-5.92	-0.00708	PASS
					20	-5.32	-0.00636	PASS
					30	4.38	0.00524	PASS
					40	6.15	0.00735	PASS
					50	-5.54	-0.00662	PASS
			HCH	VN	-30	-0.76	-0.0009	PASS
					-20	0.47	0.00056	PASS
					-10	-0.67	-0.0008	PASS
					0	-0.37	-0.00044	PASS
					10	0.1	0.00012	PASS
					20	-0.86	-0.00102	PASS
					30	-0.53	-0.00063	PASS
					40	0.49	0.00058	PASS
					50	0.46	0.00055	PASS

END

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