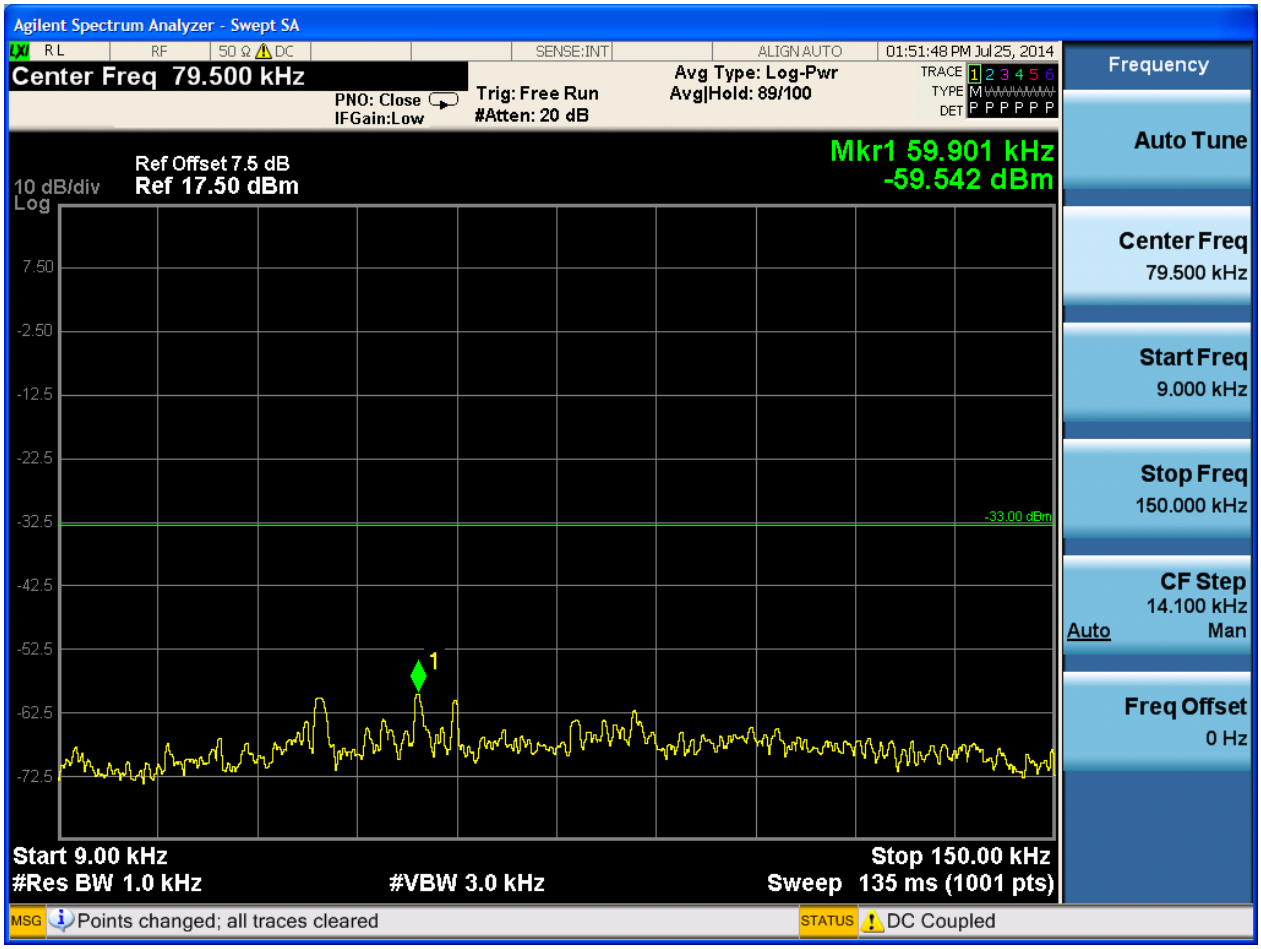
6.3.3.1.4 Test Bandwidth = 10

6.3.3.1.4.1 Test Channel = LCH

6.3.3.1.4.1.1 Test RB = RB1#0



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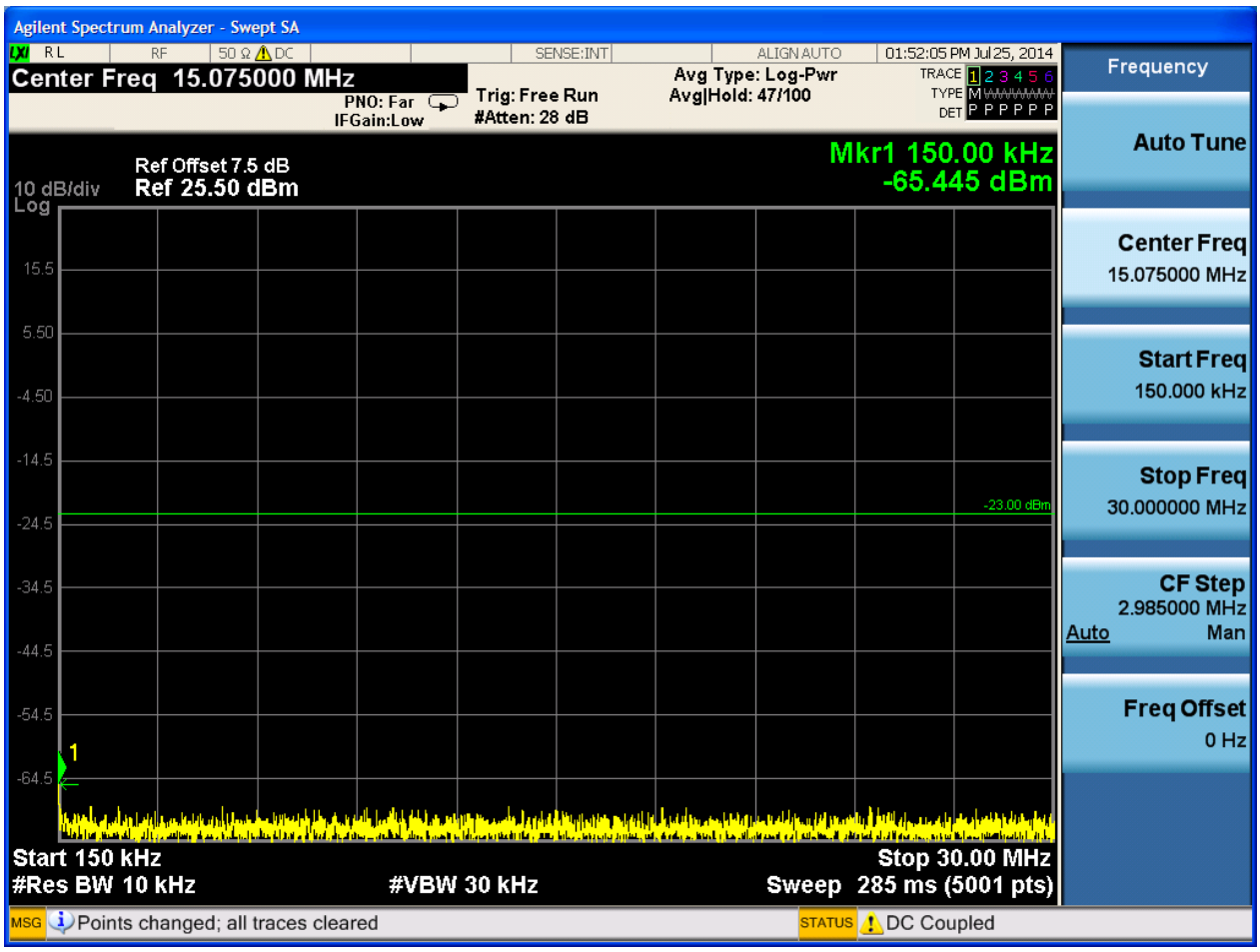

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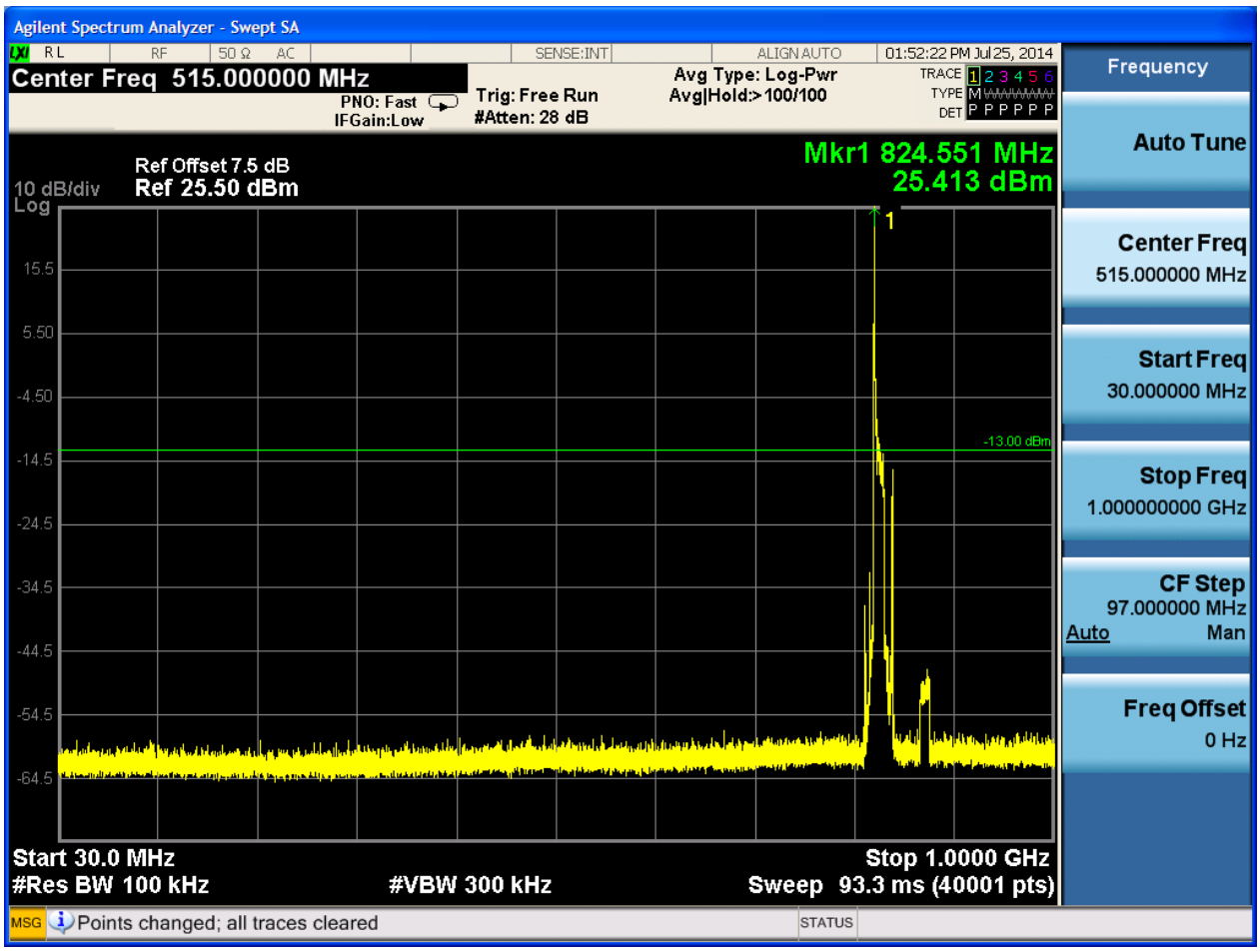

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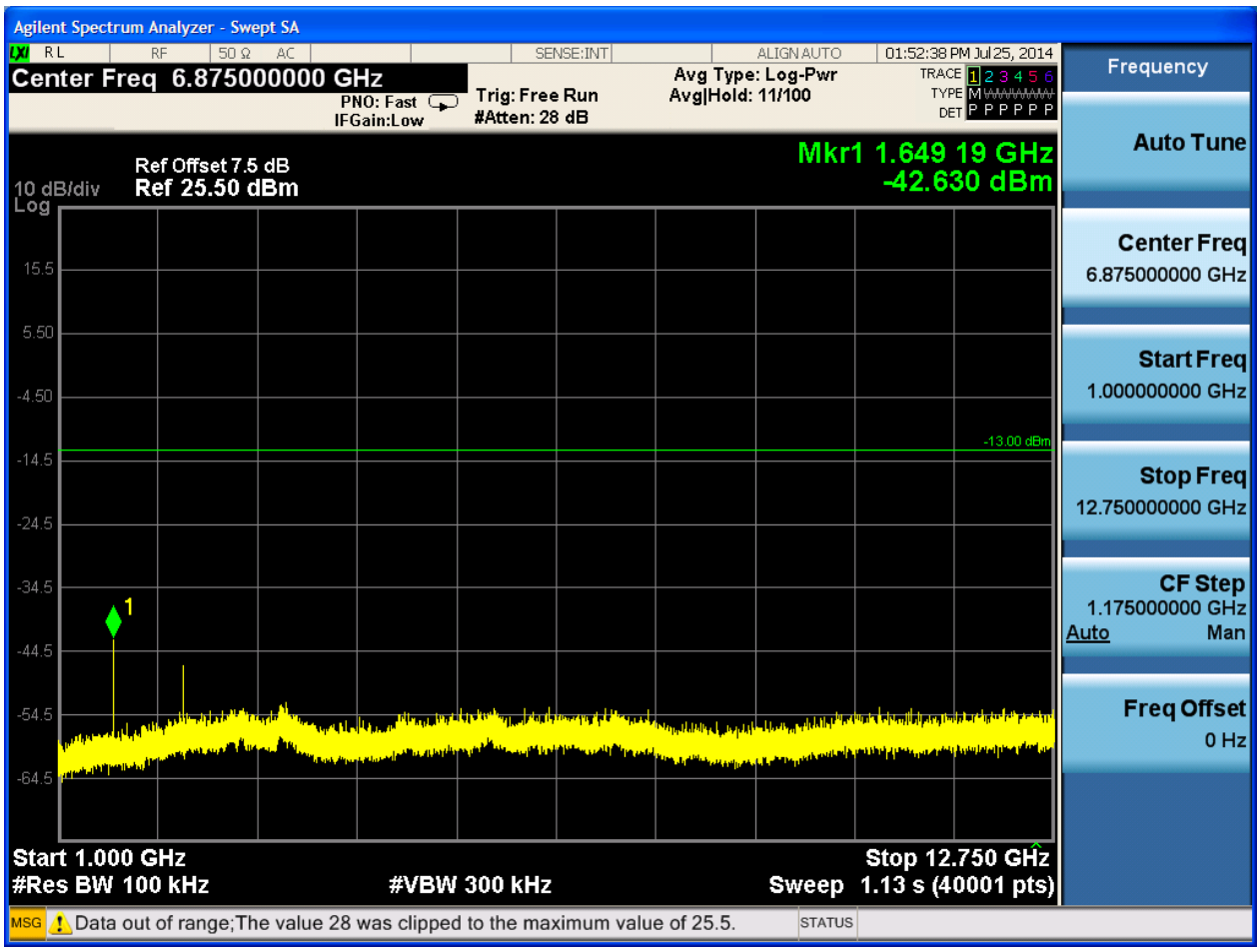

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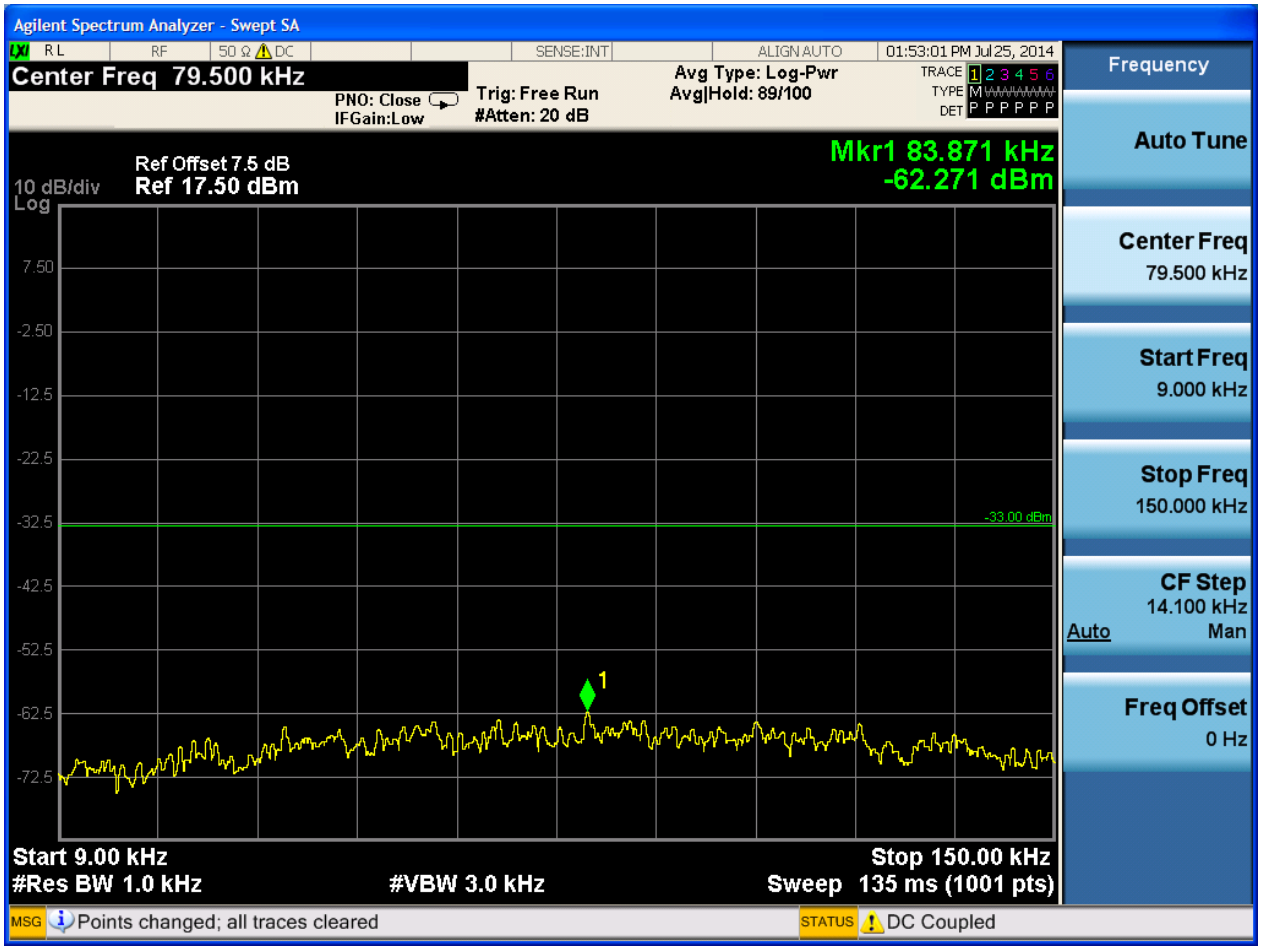
6.3.3.1.4.2 Test Channel = MCH

6.3.3.1.4.2.1 Test RB = RB1#0



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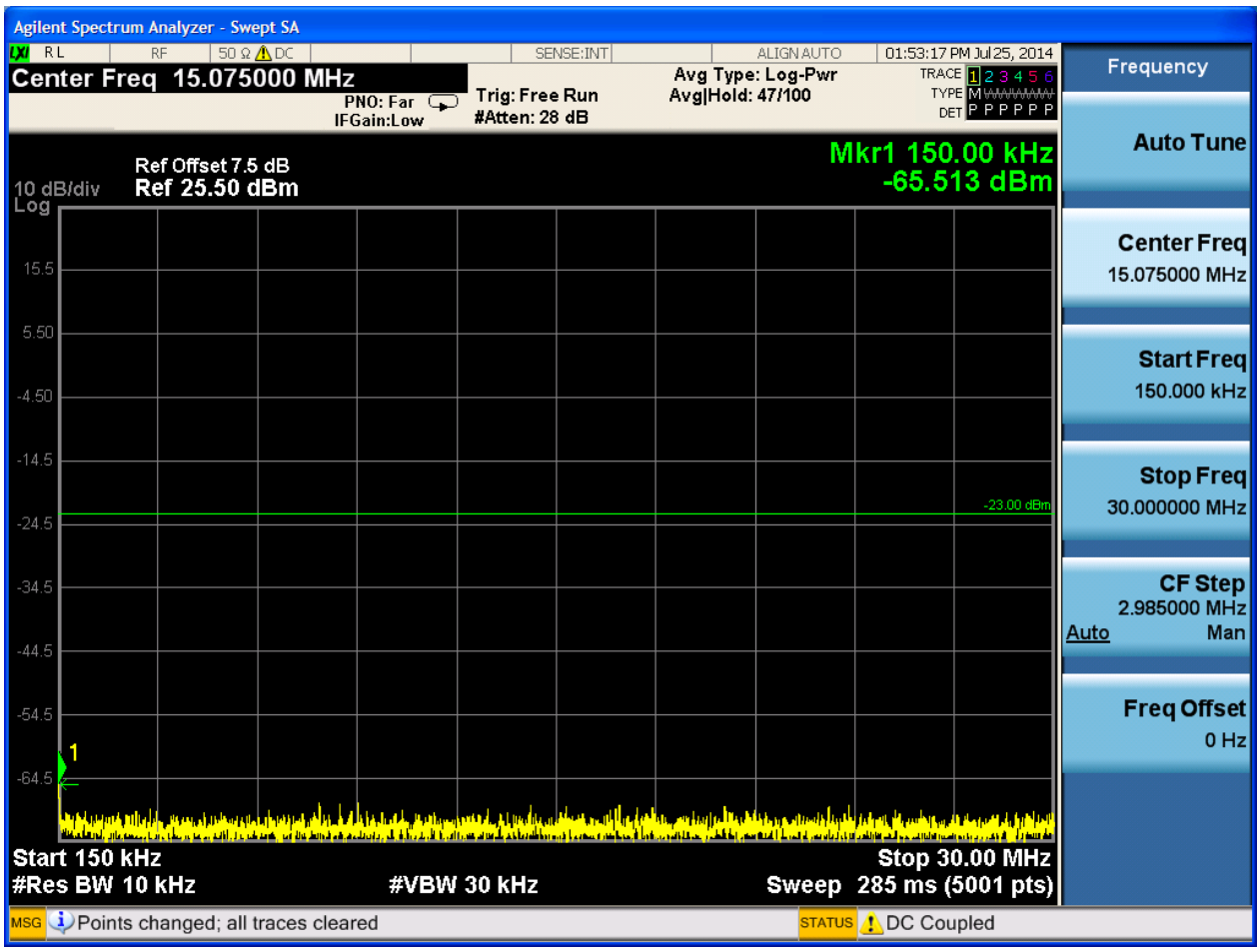

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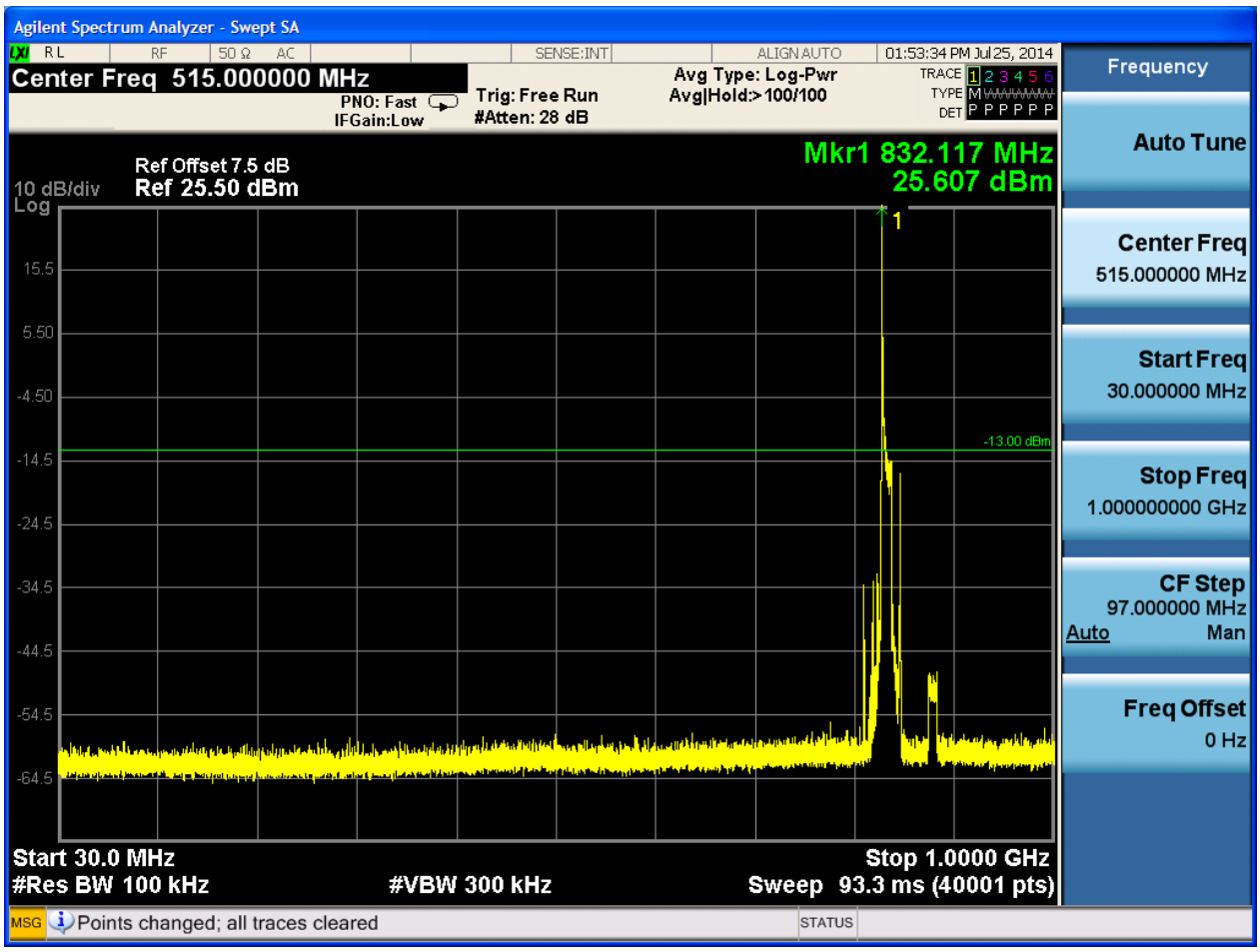

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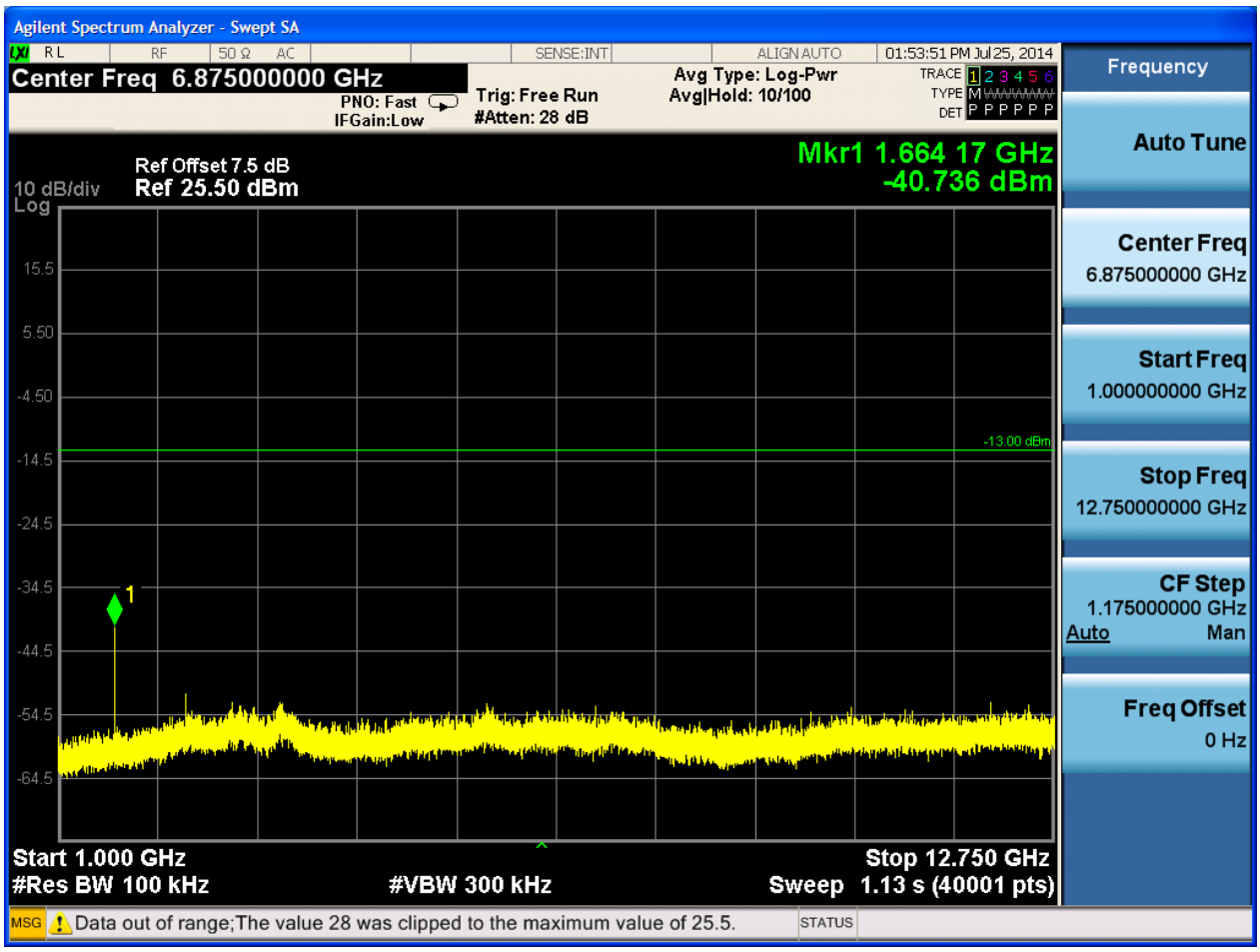

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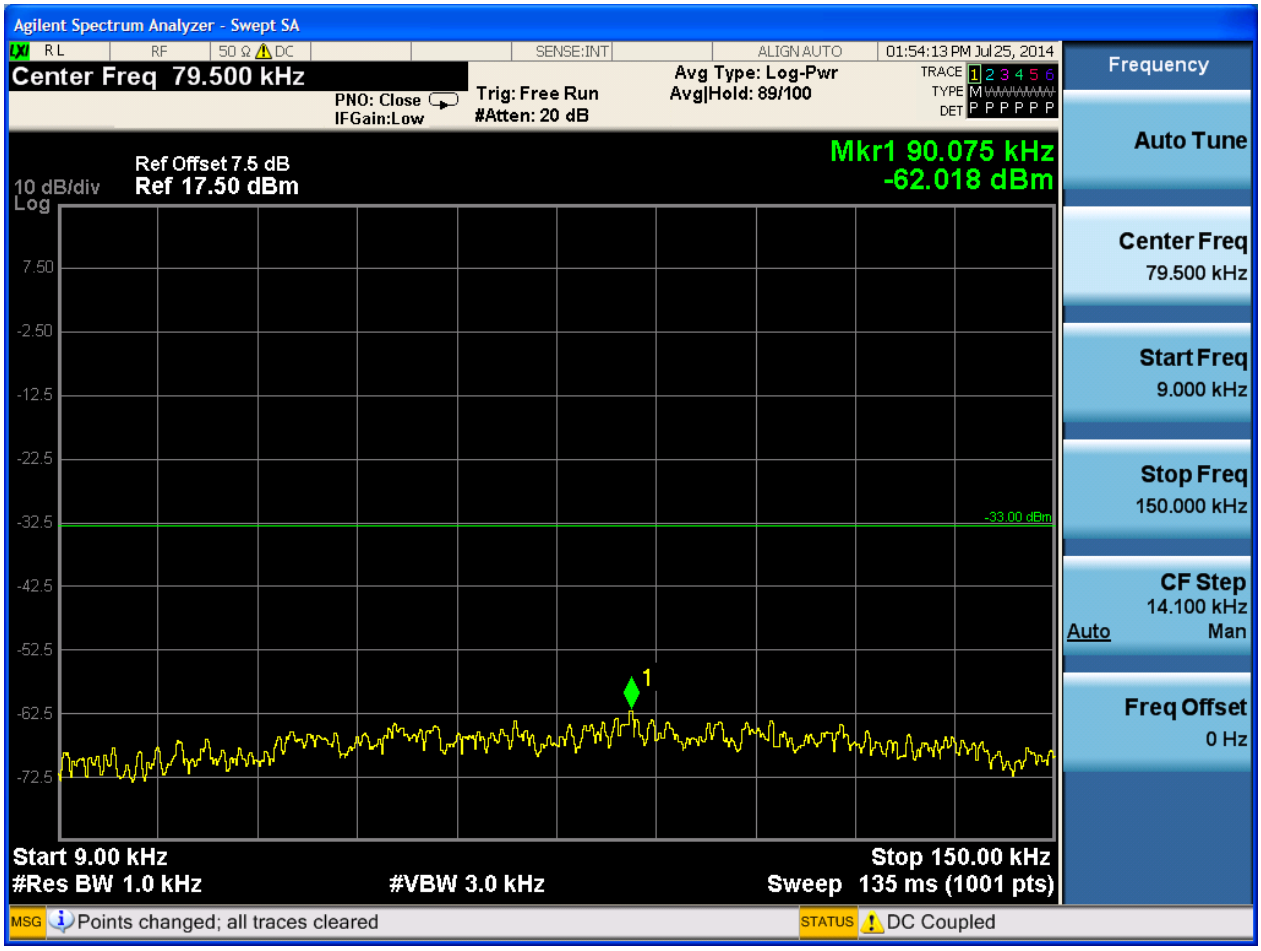
6.3.3.1.4.3 Test Channel = HCH

6.3.3.1.4.3.1 Test RB = RB1#0



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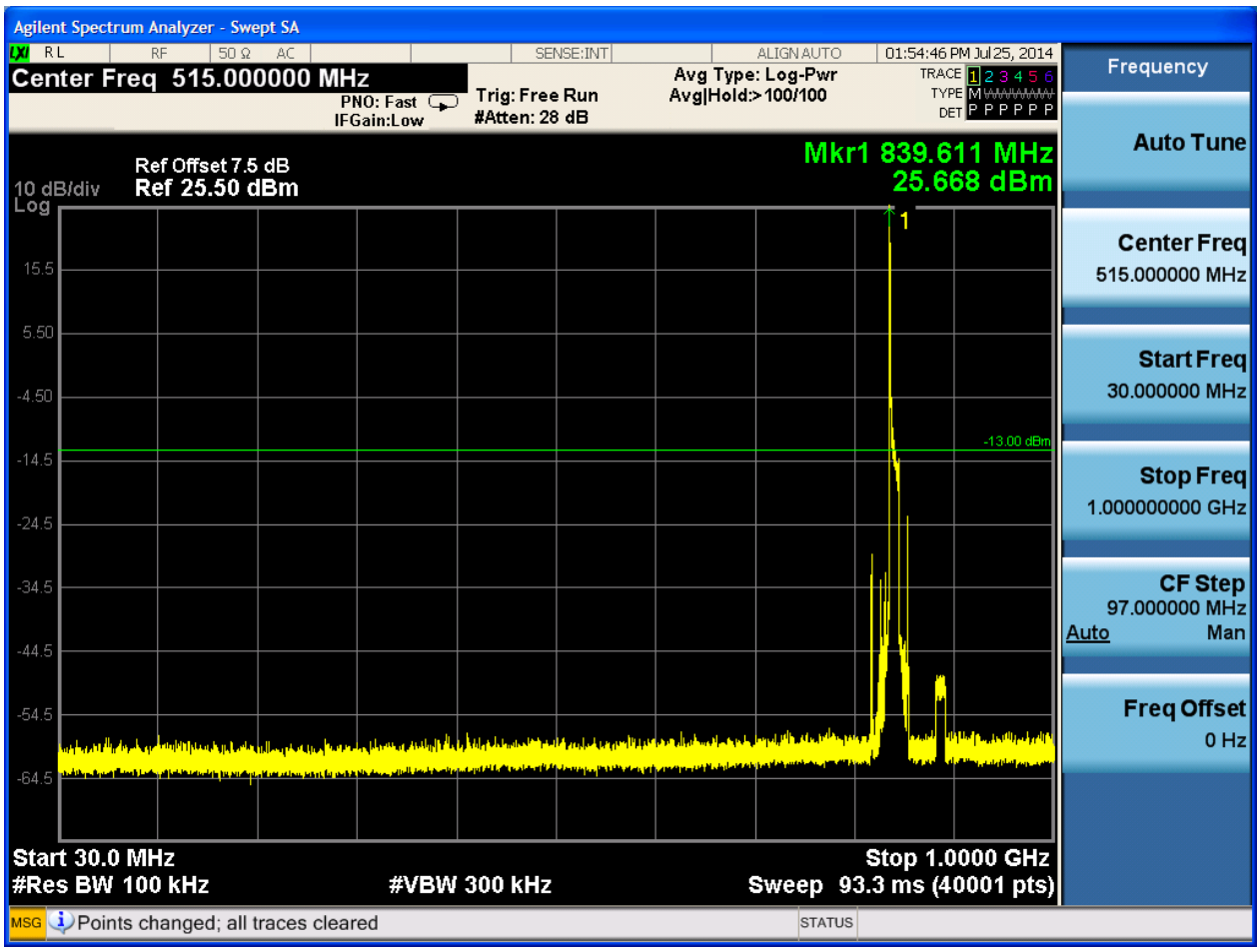

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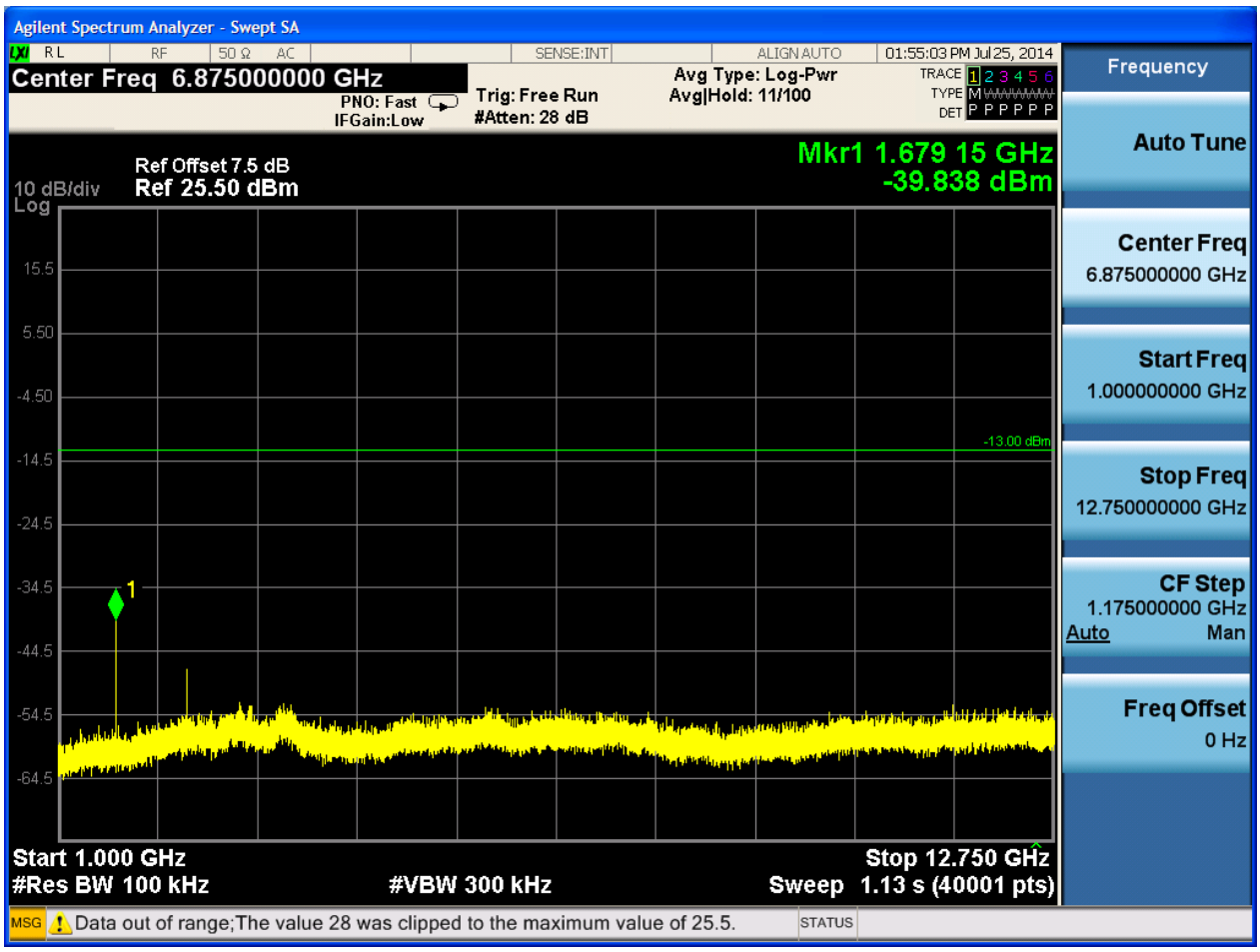

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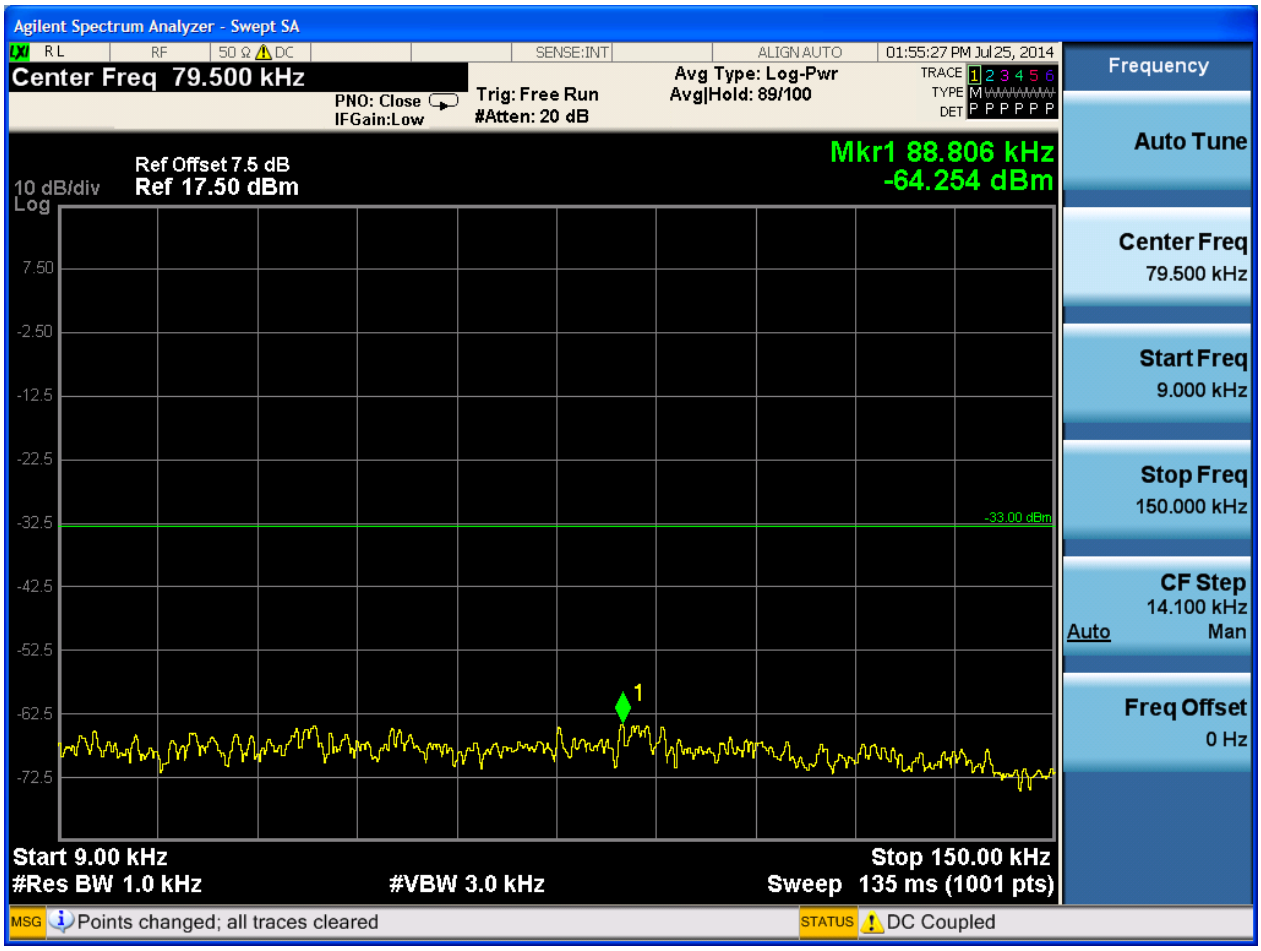
6.3.3.2 Test Mode = LTE/TM2

6.3.3.2.1 Test Bandwidth = 1.4

6.3.3.2.1.1 Test Channel = LCH

6.3.3.2.1.1.1 Test RB = RB1#0



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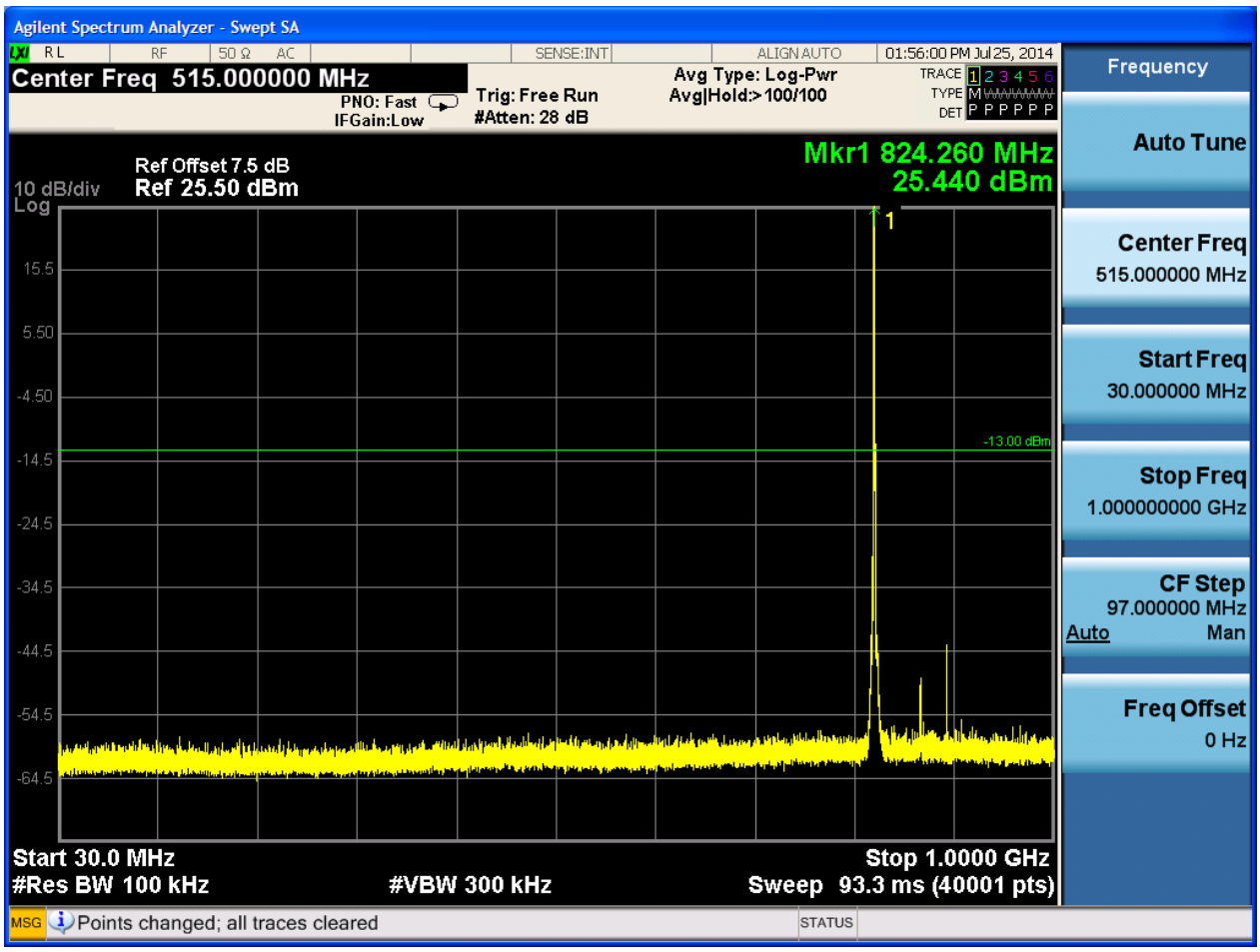

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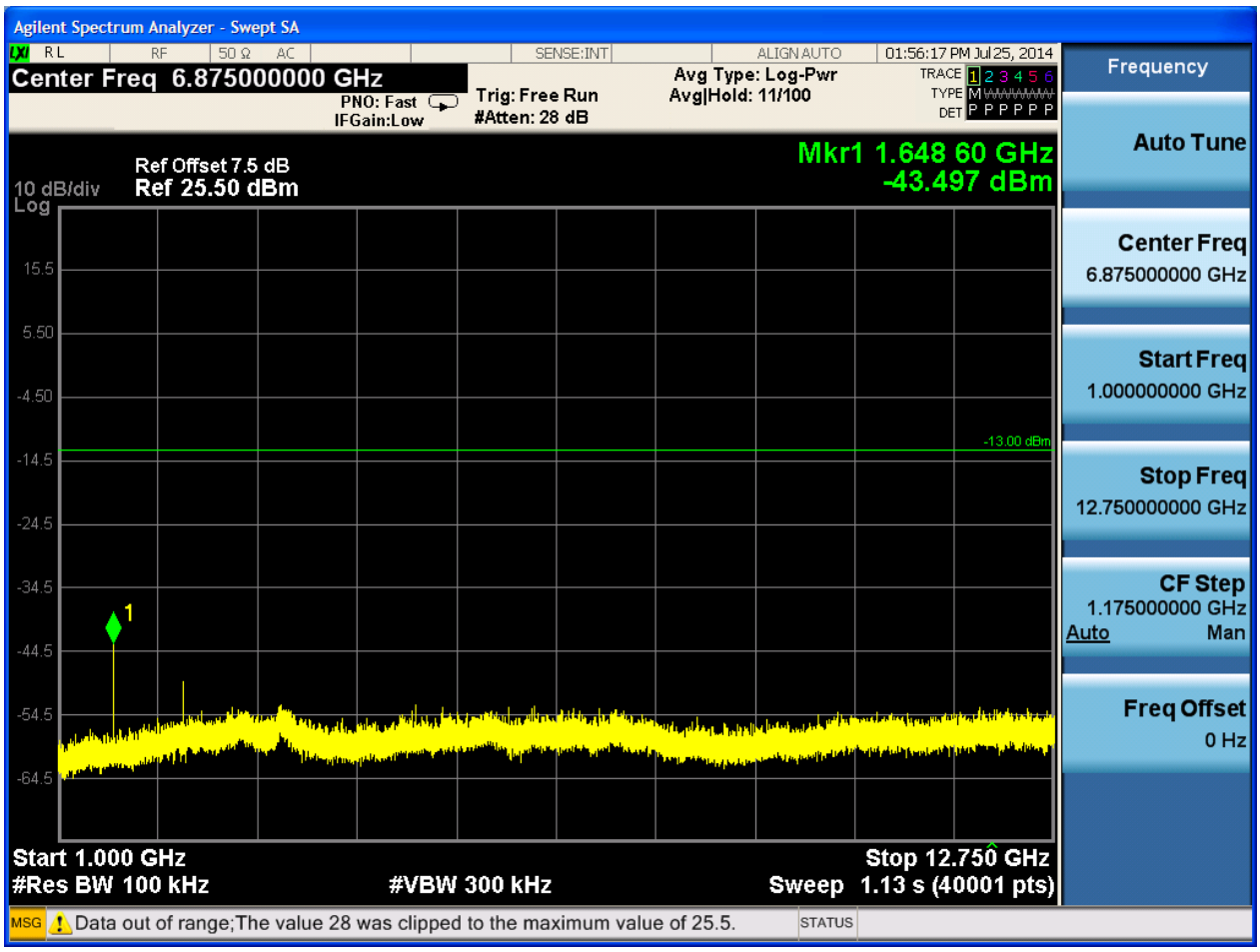

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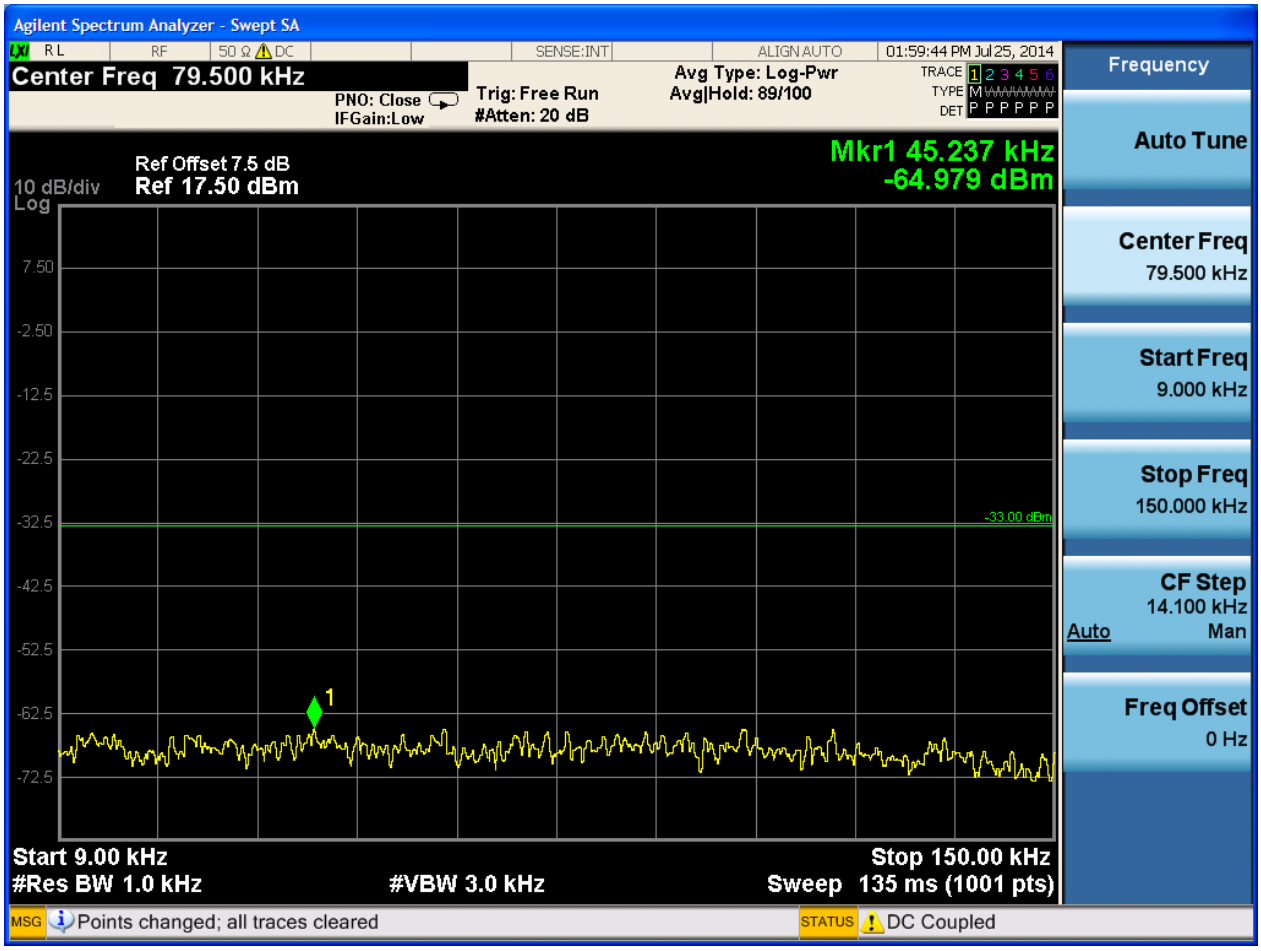
6.3.3.2.1.2 Test Channel = MCH

6.3.3.2.1.2.1 Test RB = RB1#0



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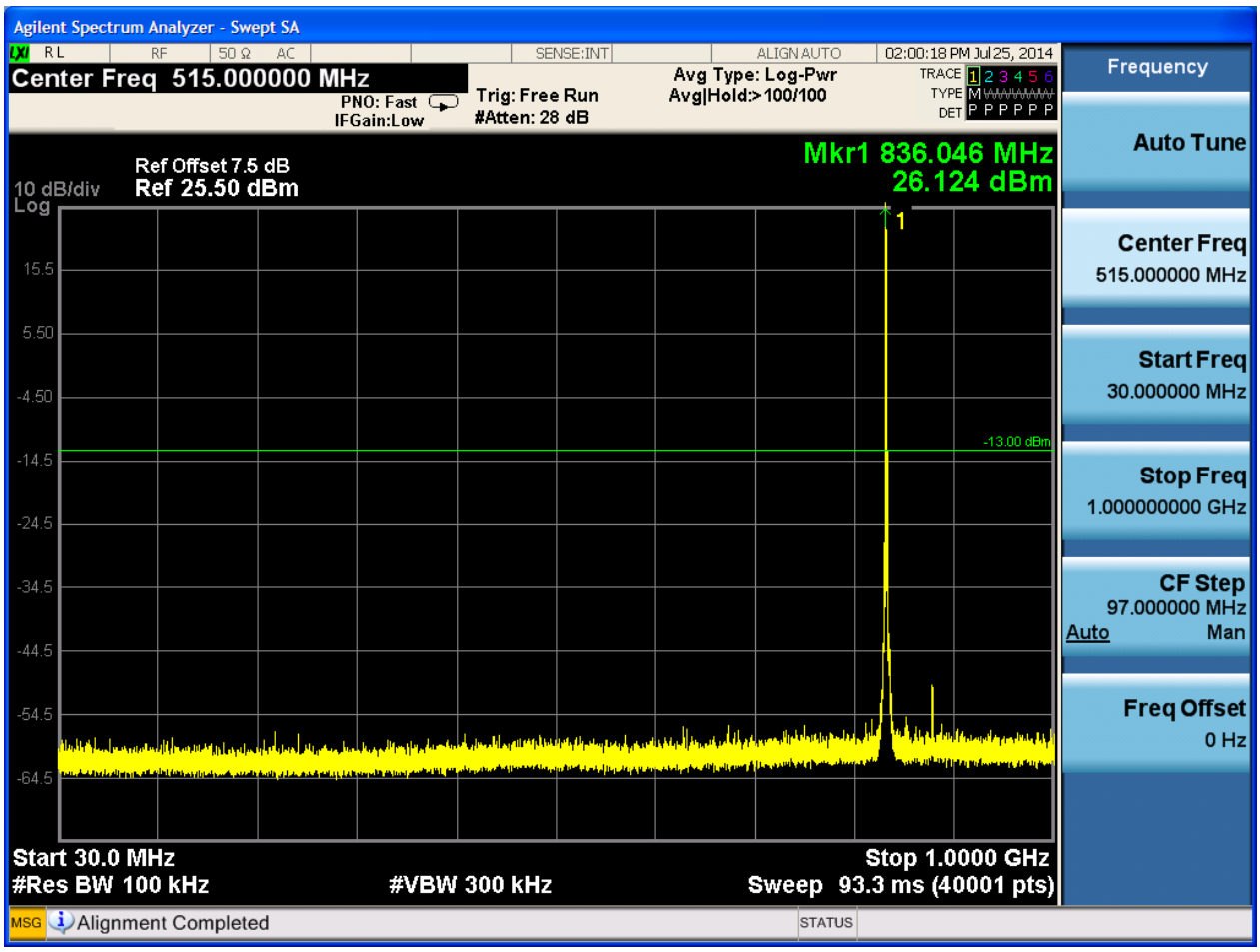

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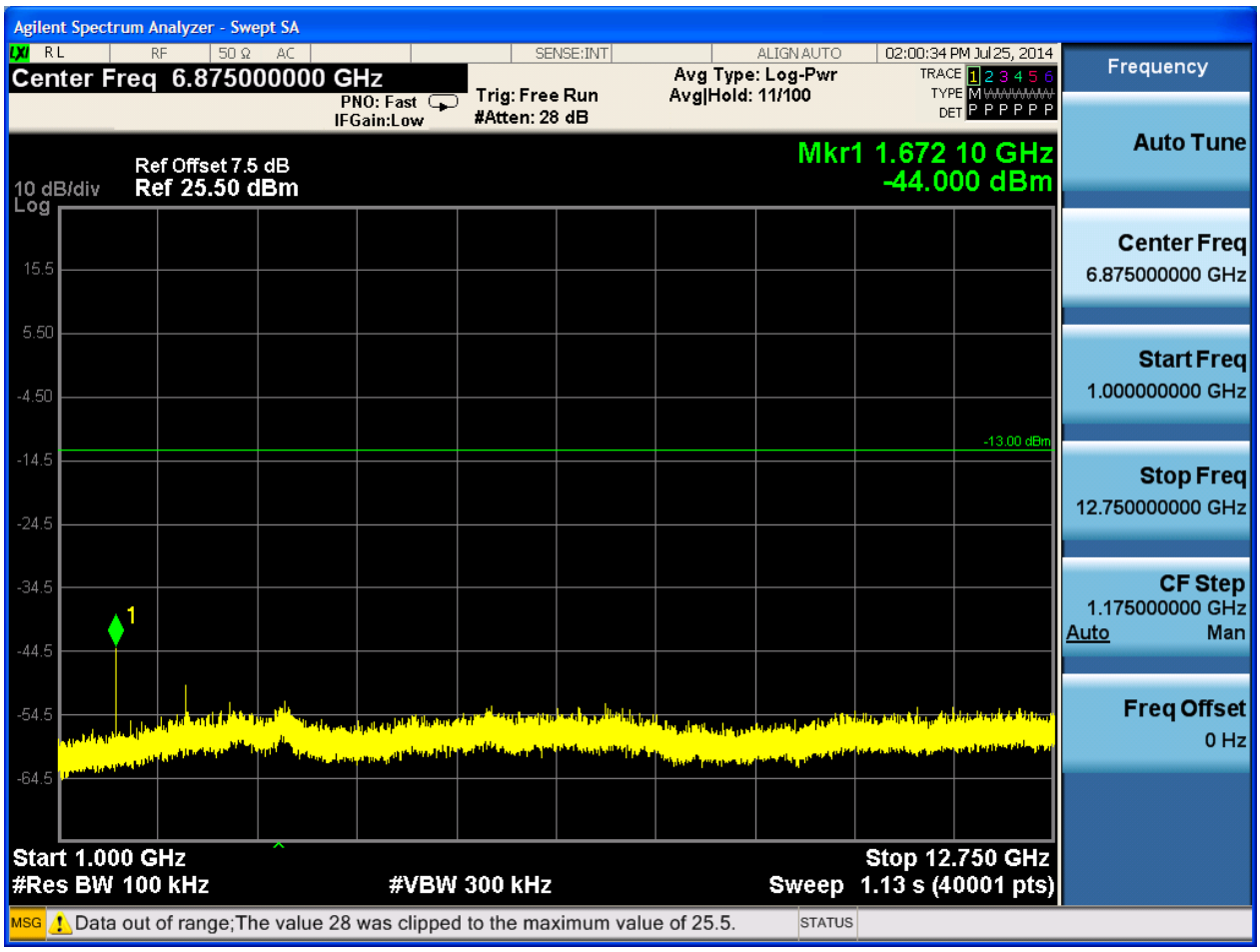

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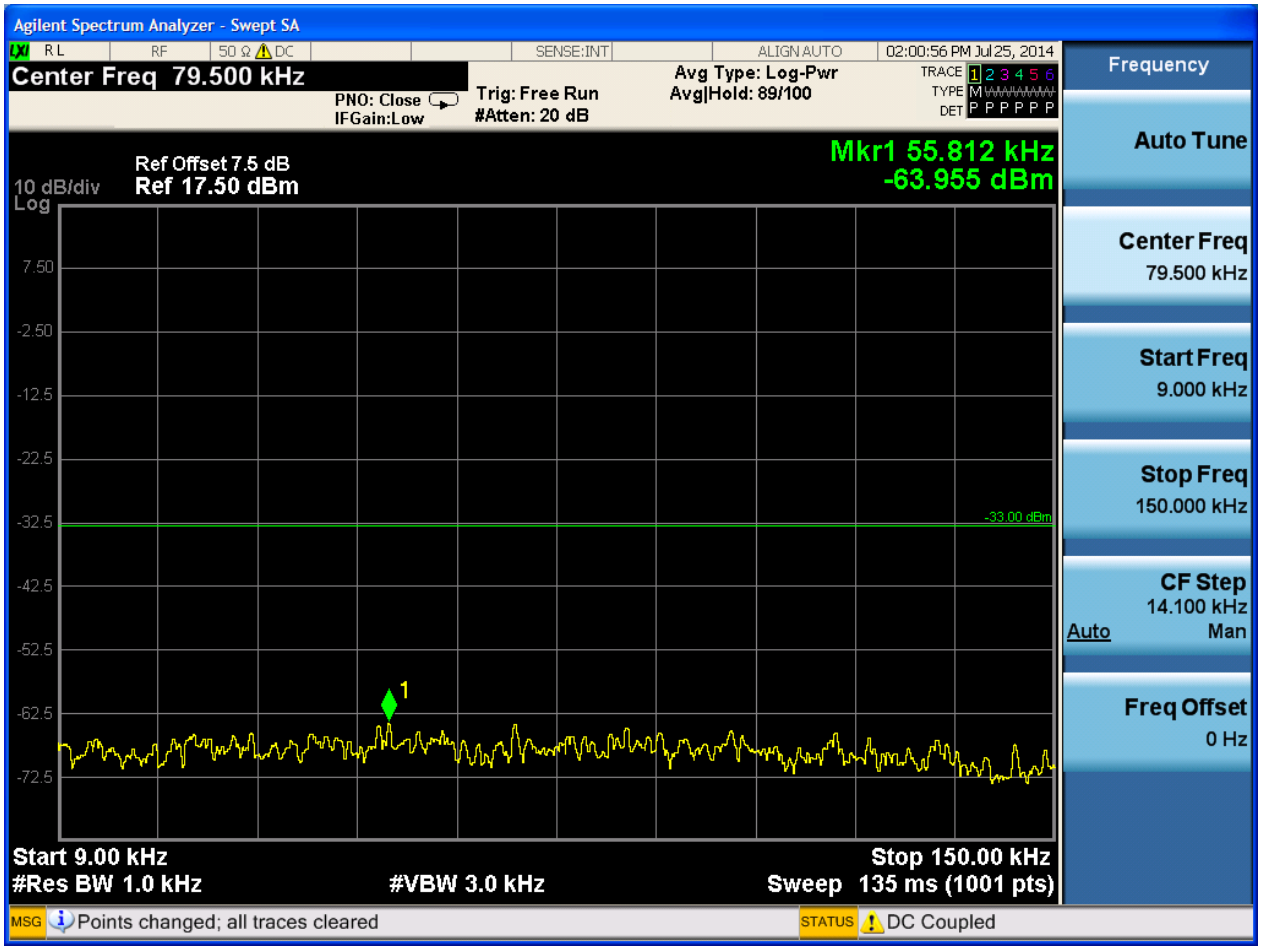
6.3.3.2.1.3 Test Channel = HCH

6.3.3.2.1.3.1 Test RB = RB1#0



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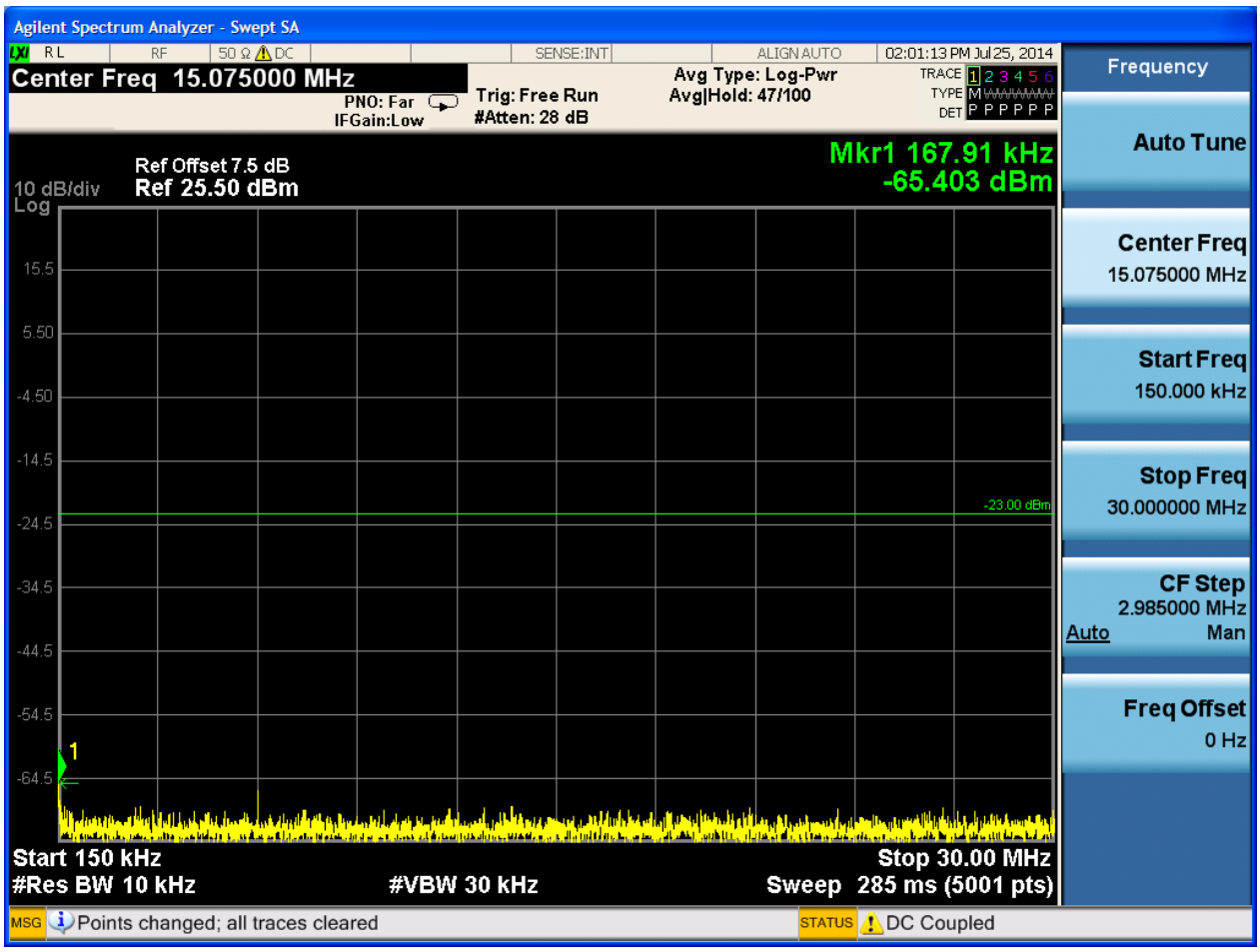

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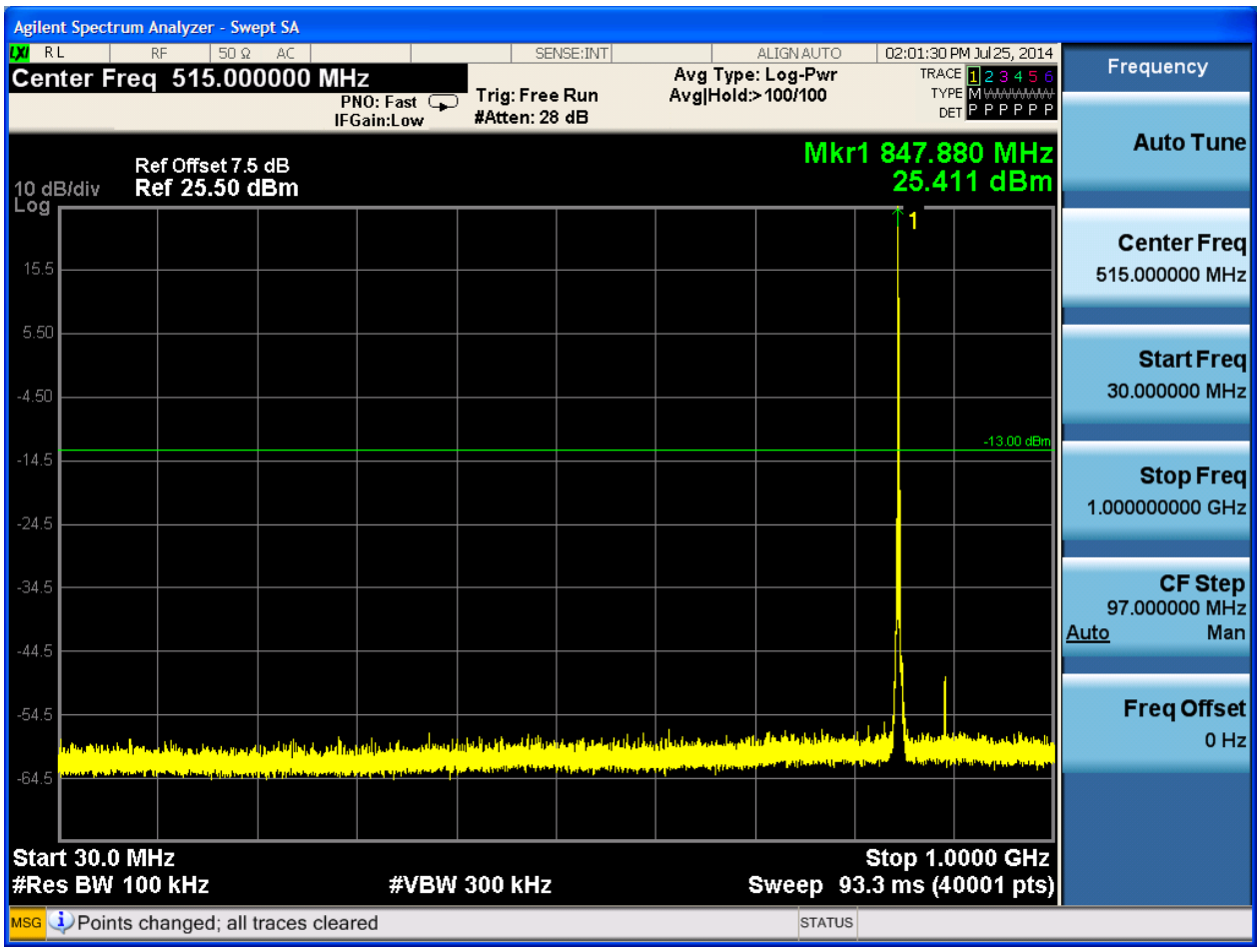

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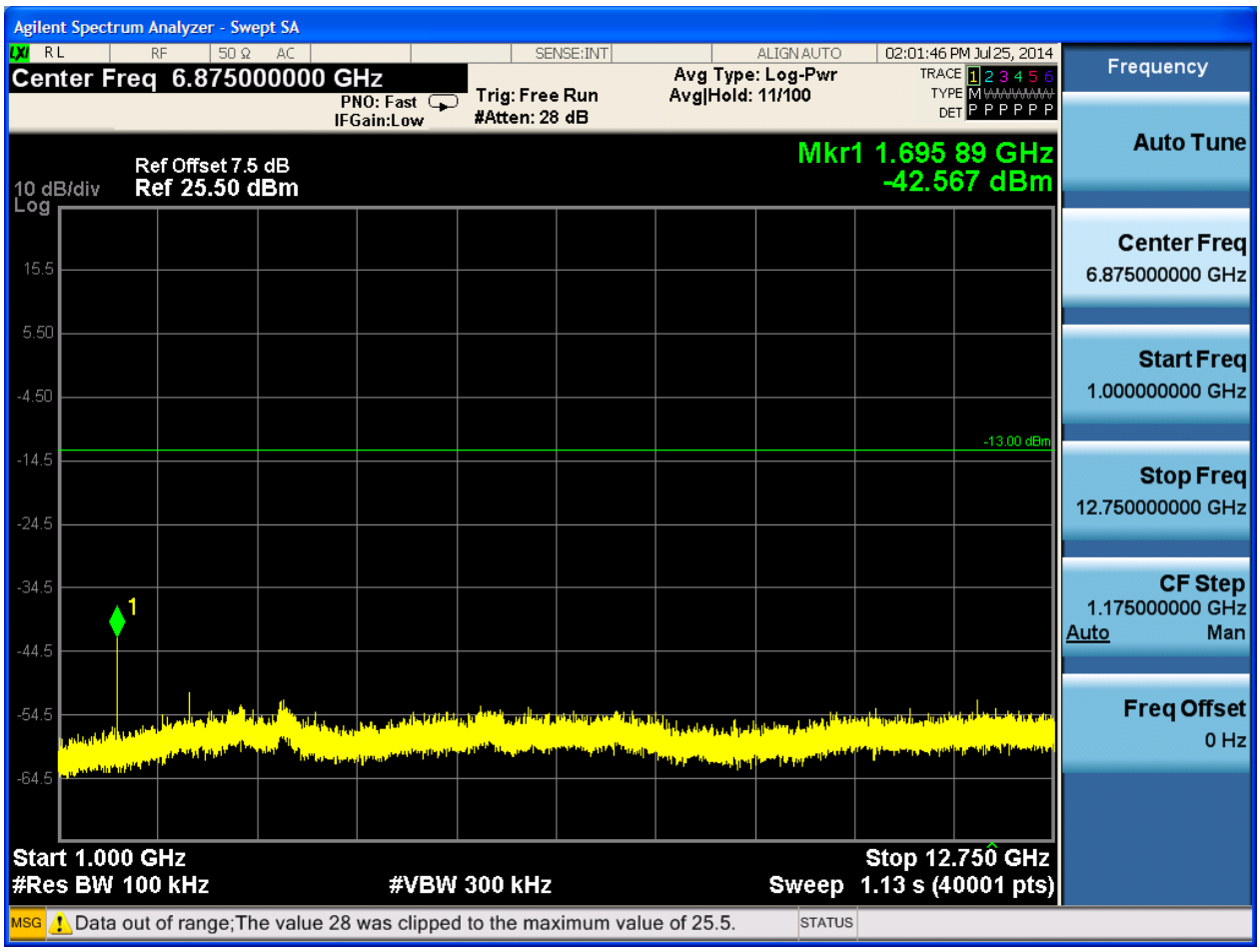

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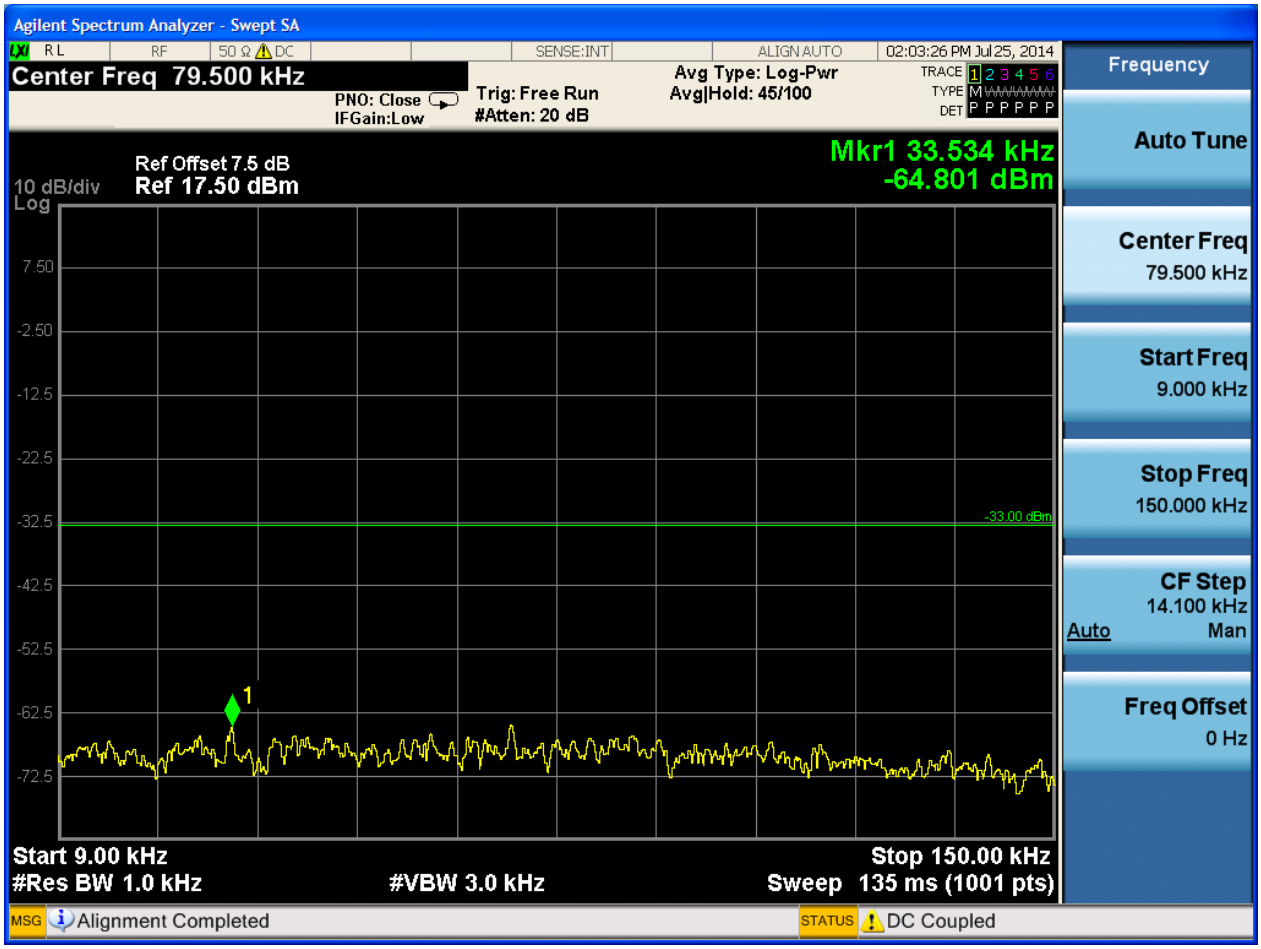
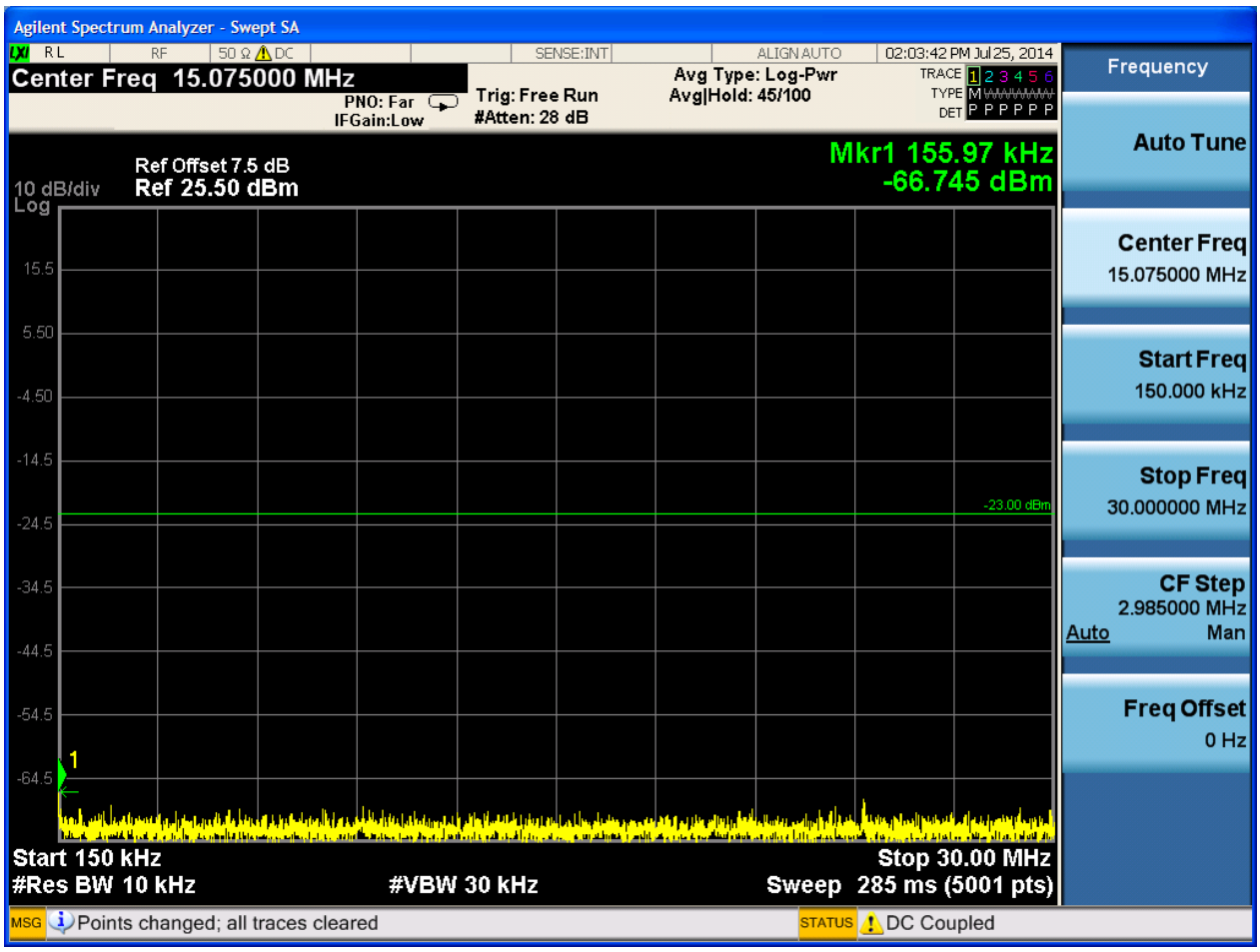
6.3.3.2.2 Test Bandwidth = 3

6.3.3.2.2.1 Test Channel = LCH

6.3.3.2.2.1.1 Test RB = RB1#0





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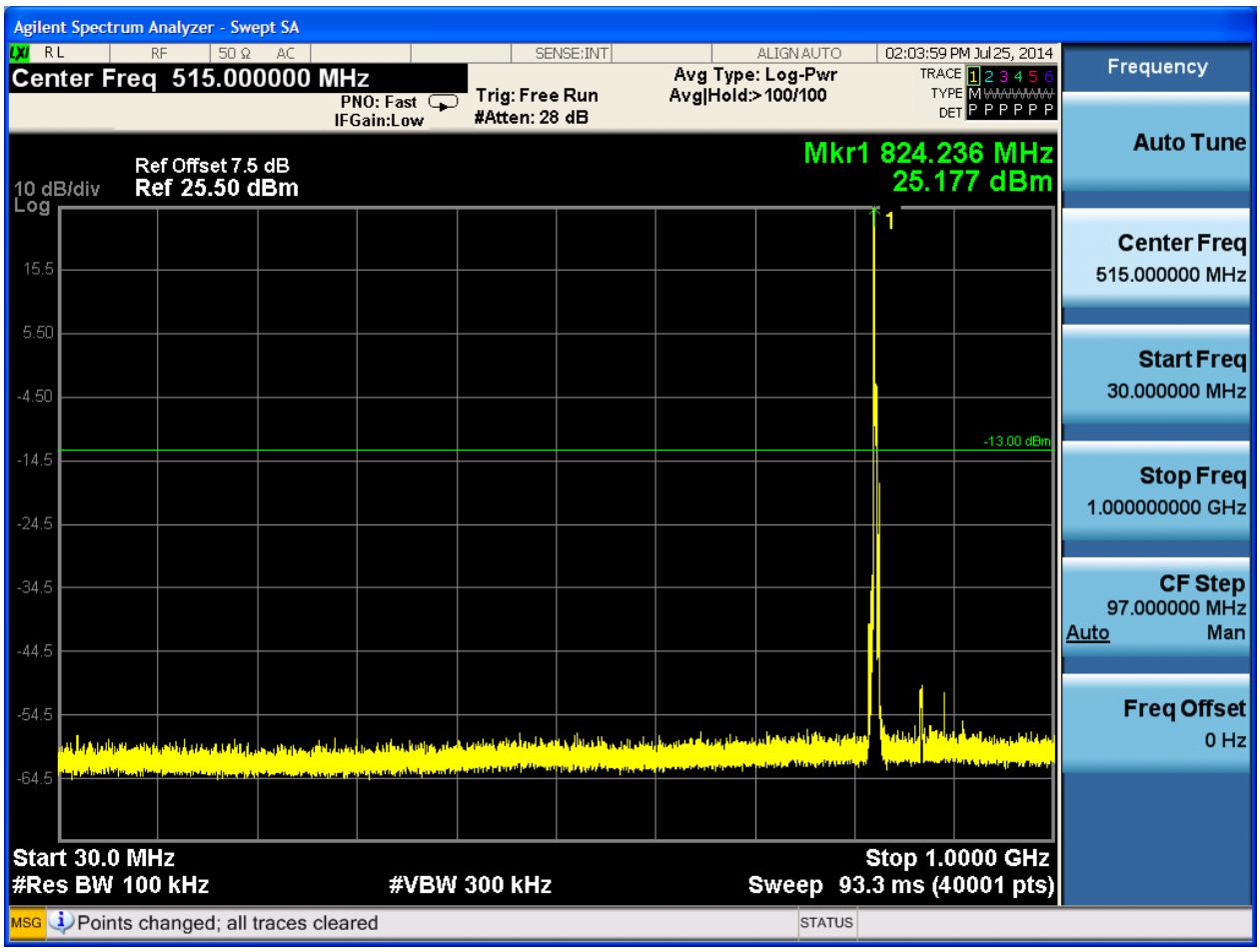

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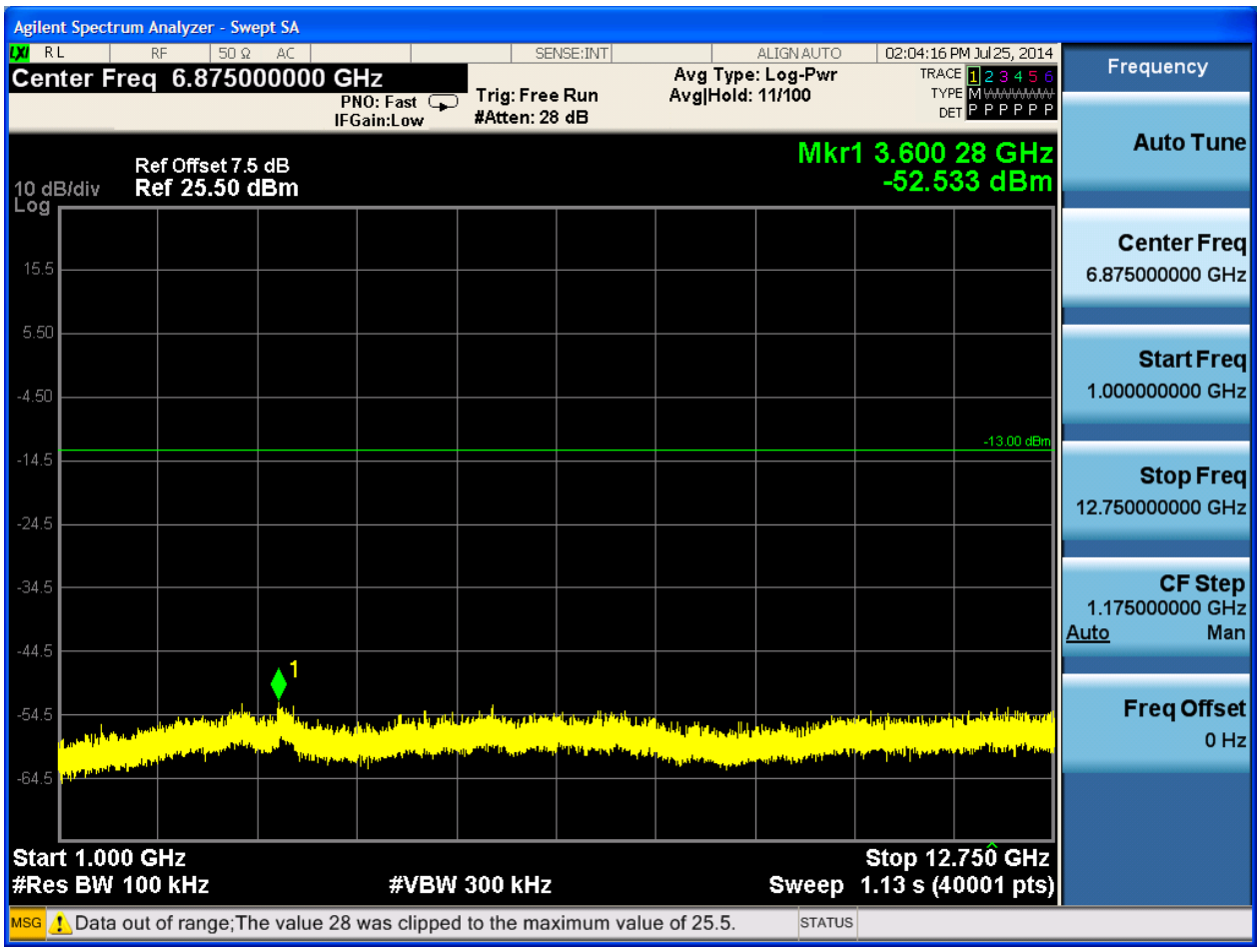

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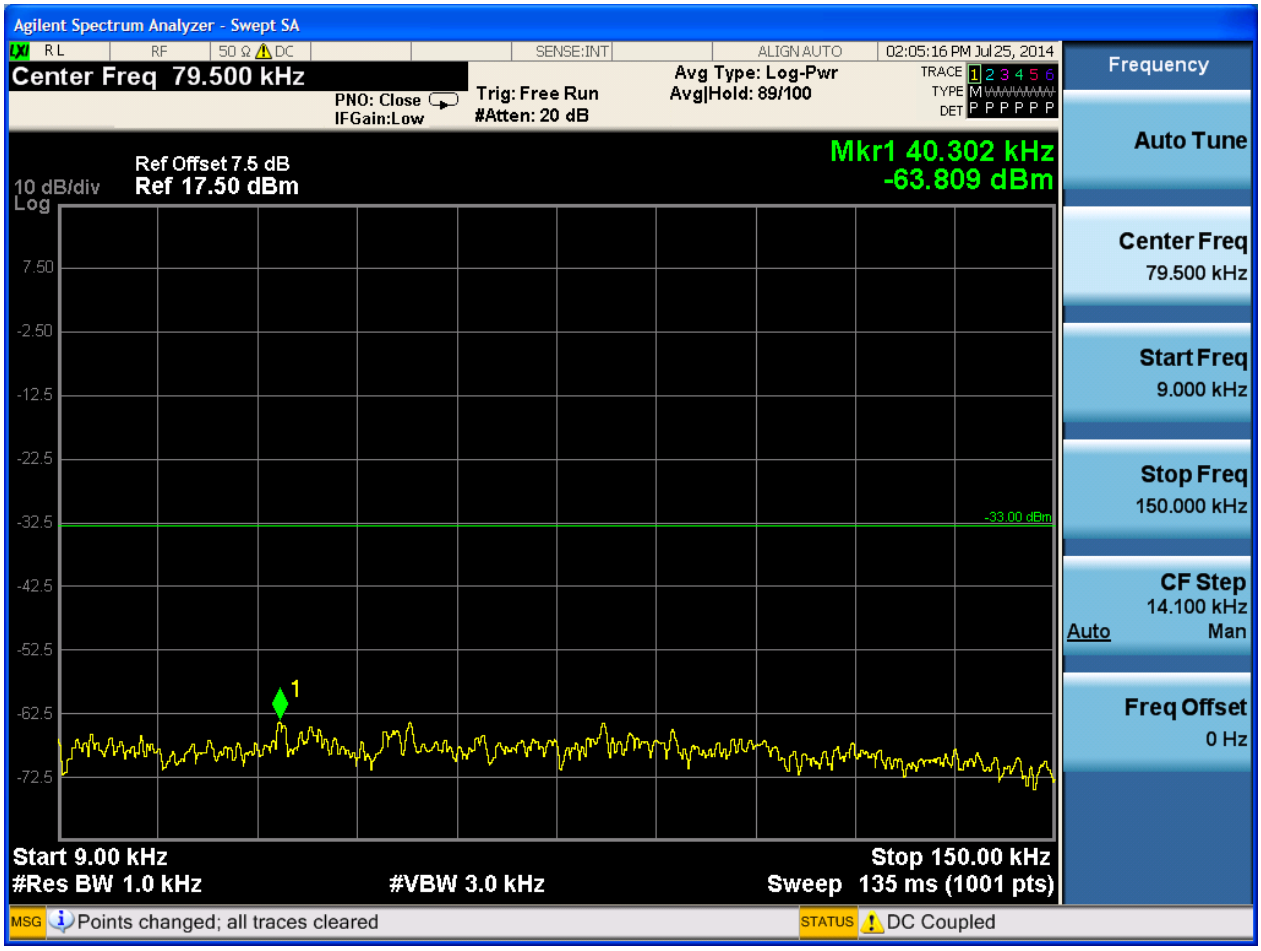
6.3.3.2.2.2 Test Channel = MCH

6.3.3.2.2.2.1 Test RB = RB1#0



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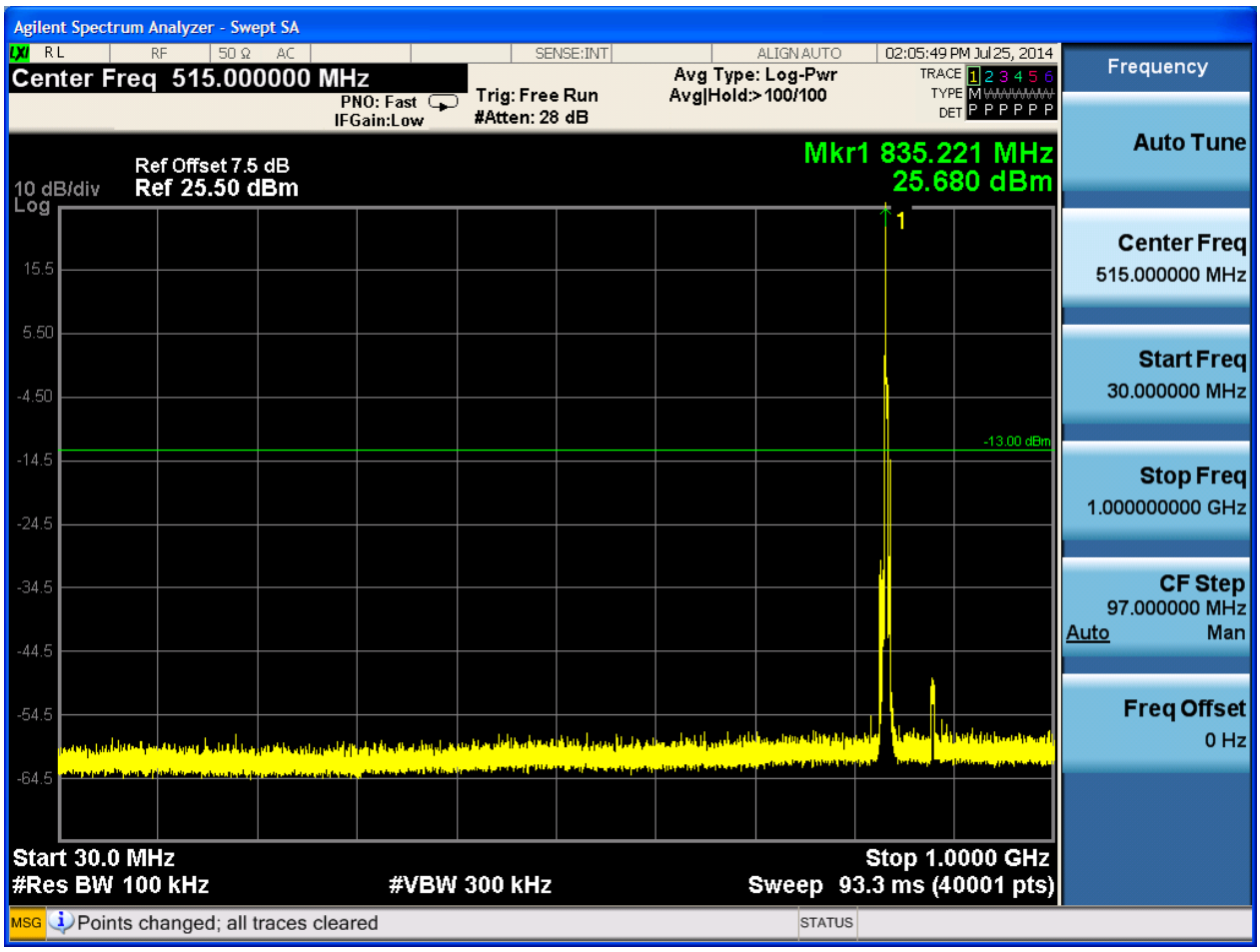

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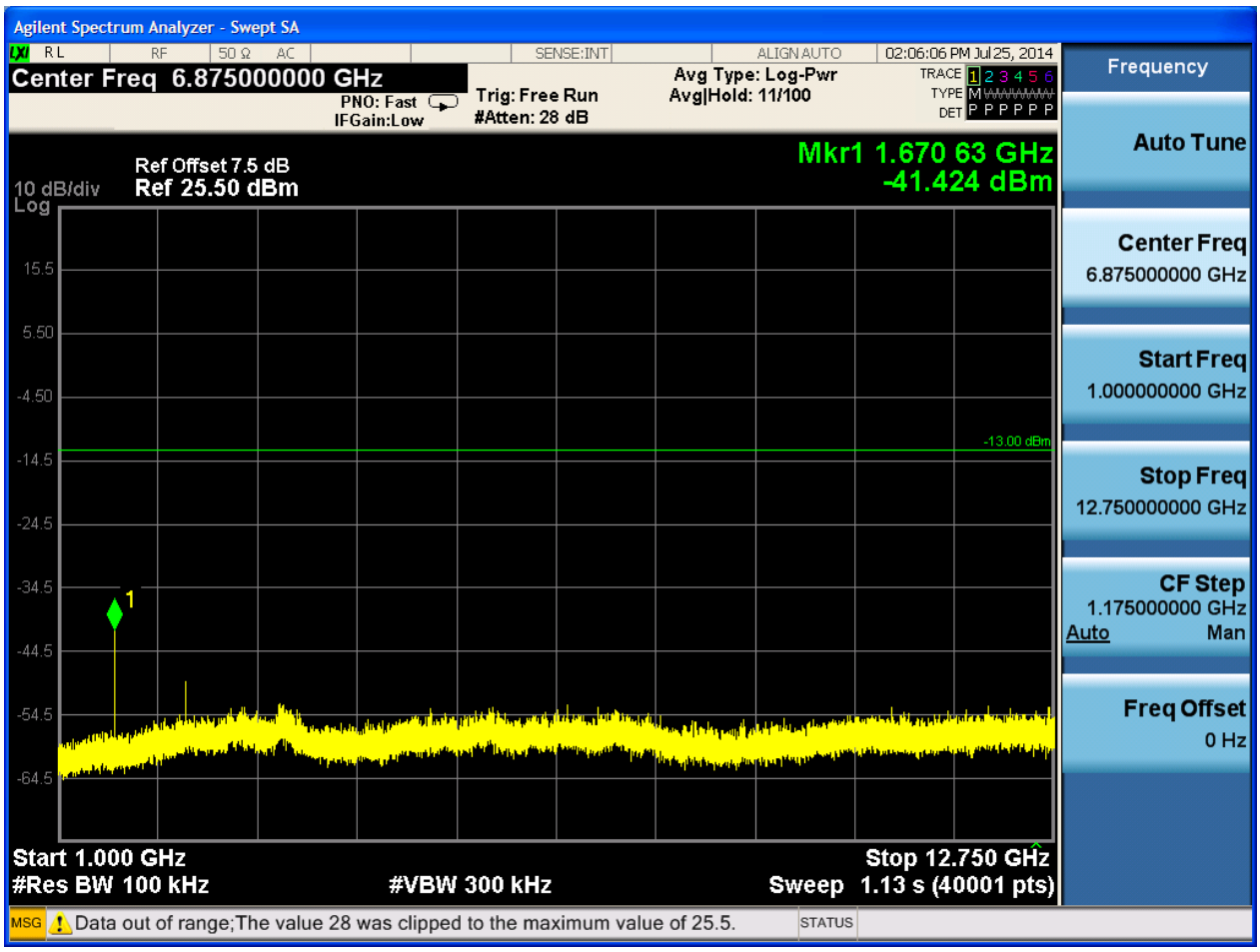

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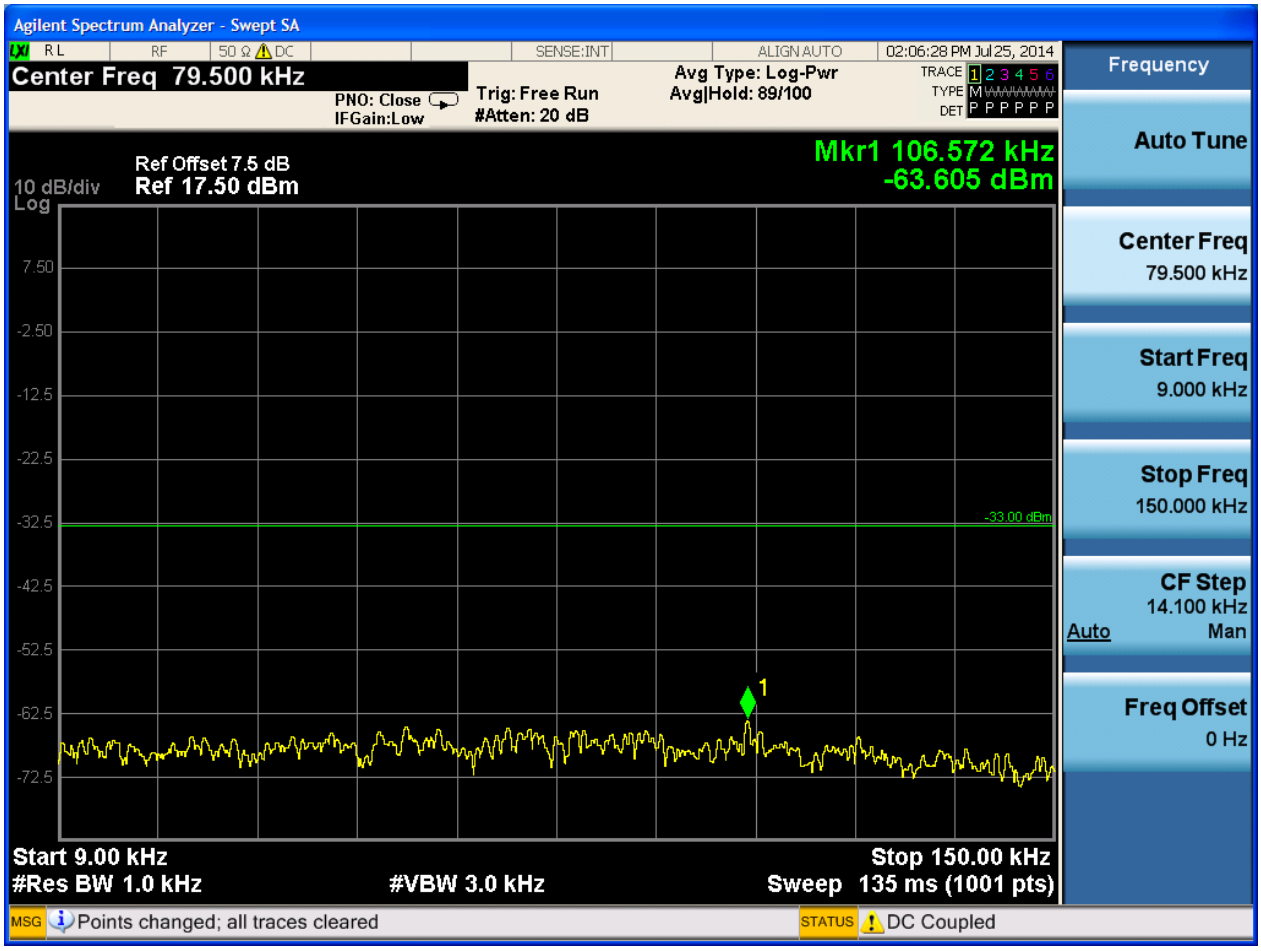
6.3.3.2.2.3 Test Channel = HCH

6.3.3.2.2.3.1 Test RB = RB1#0



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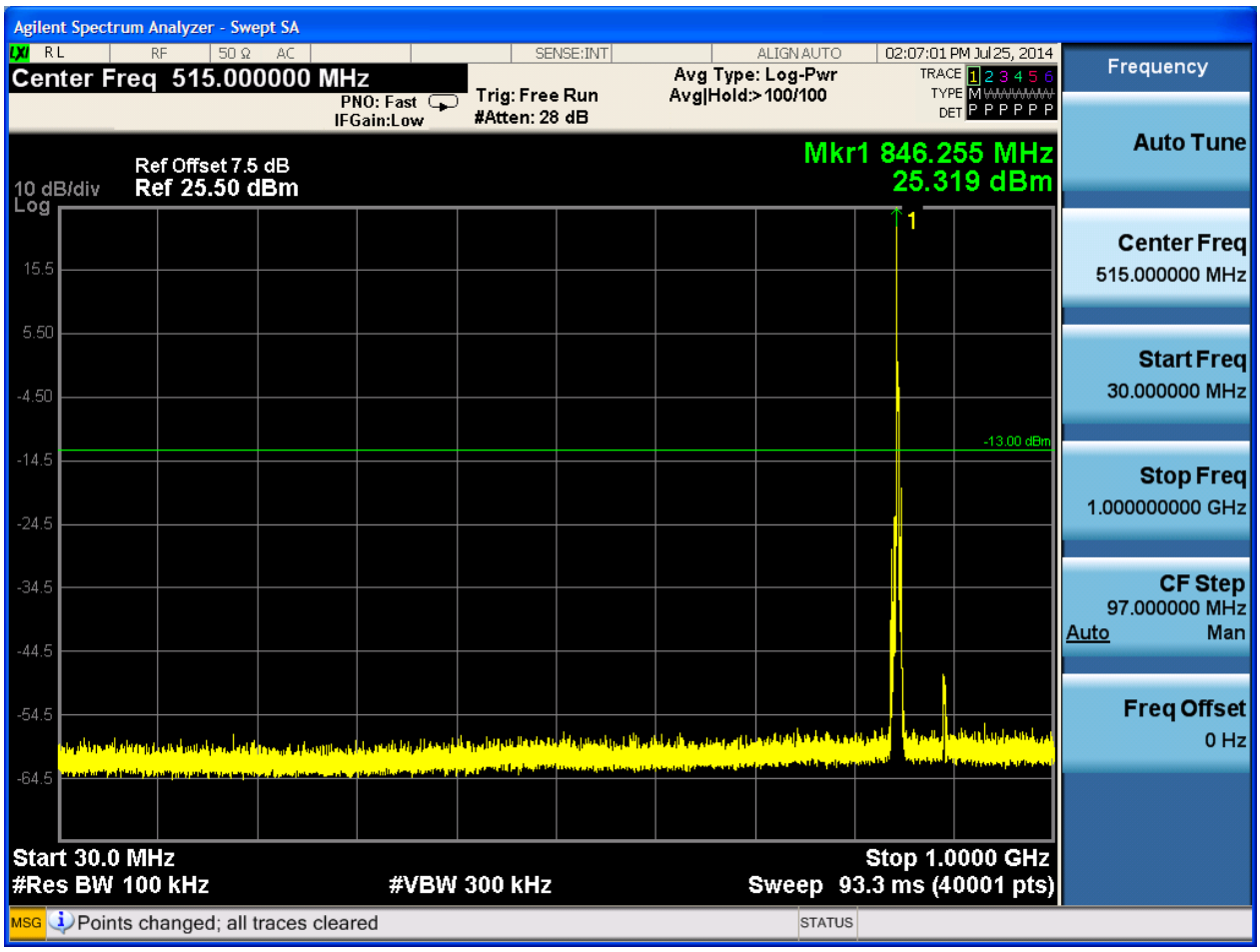

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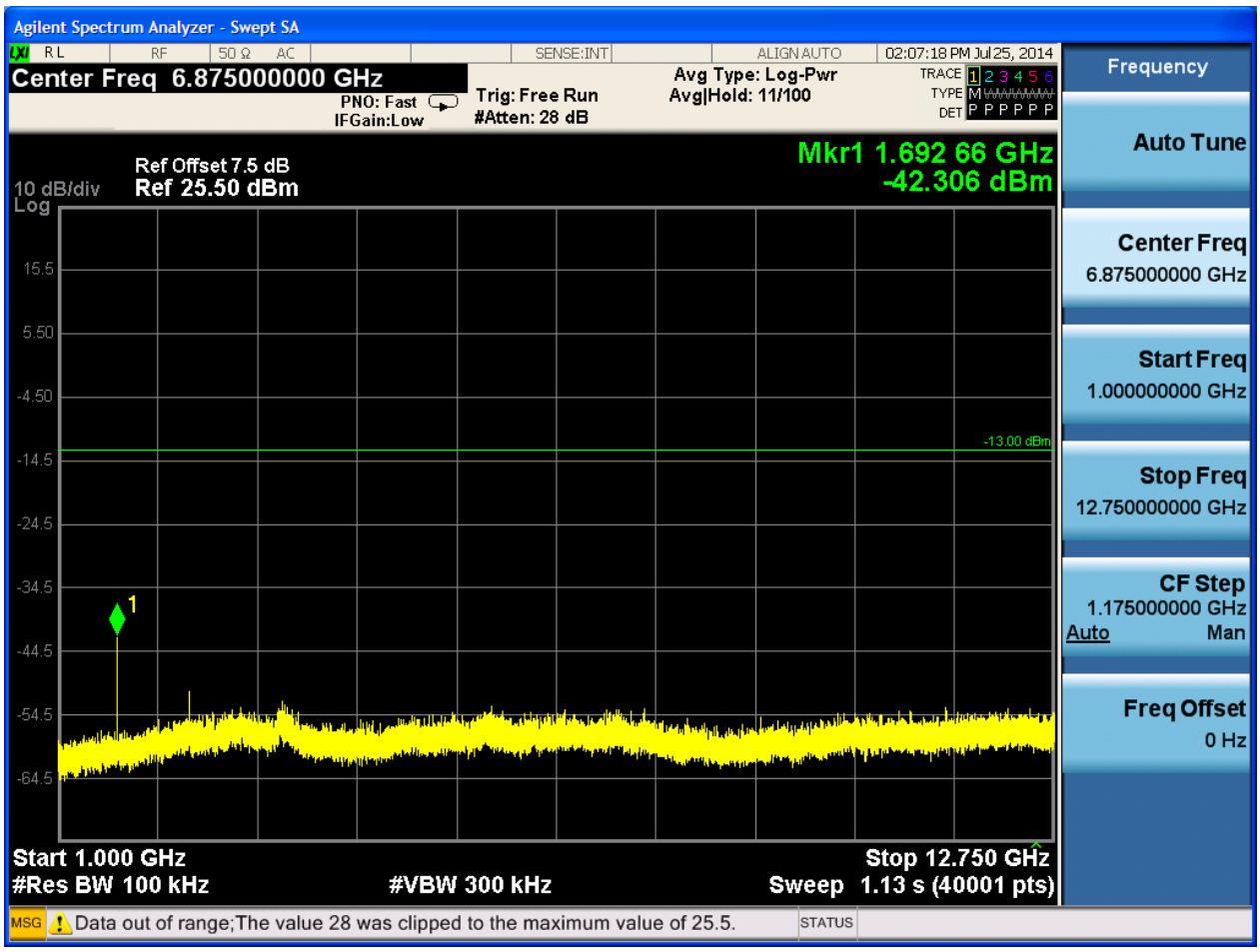

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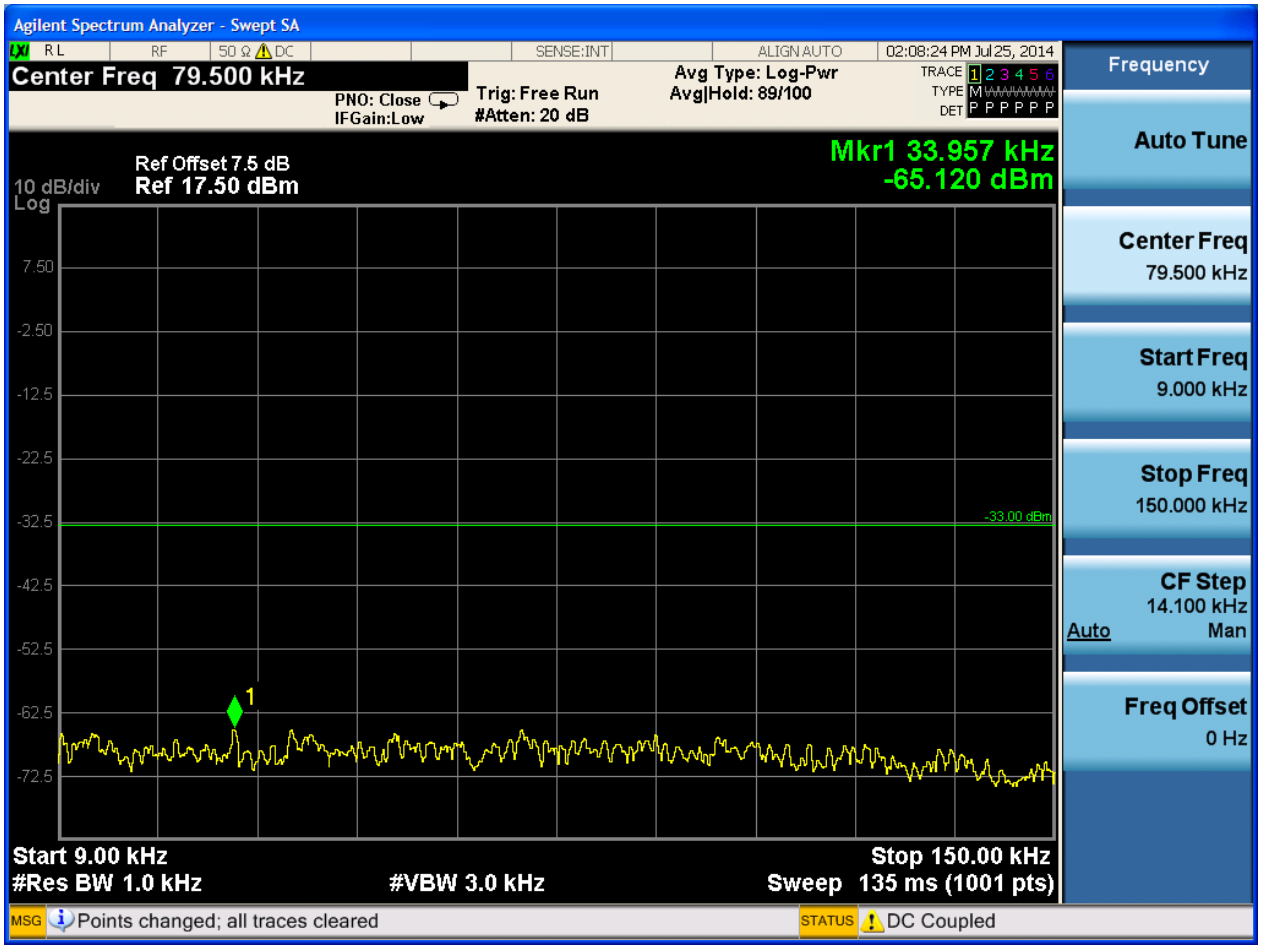
6.3.3.2.3 Test Bandwidth = 5

6.3.3.2.3.1 Test Channel = LCH

6.3.3.2.3.1.1 Test RB = RB1#0



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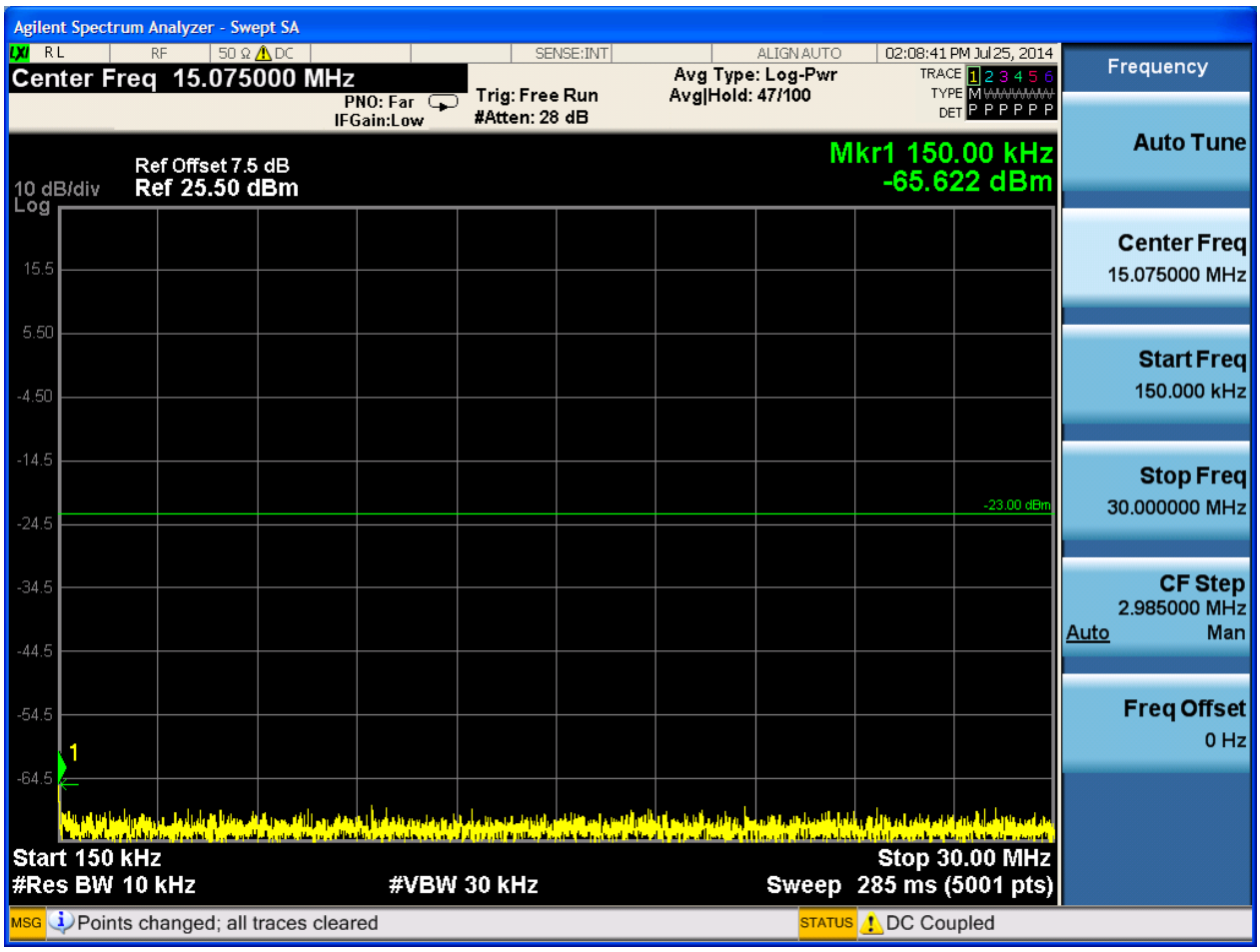

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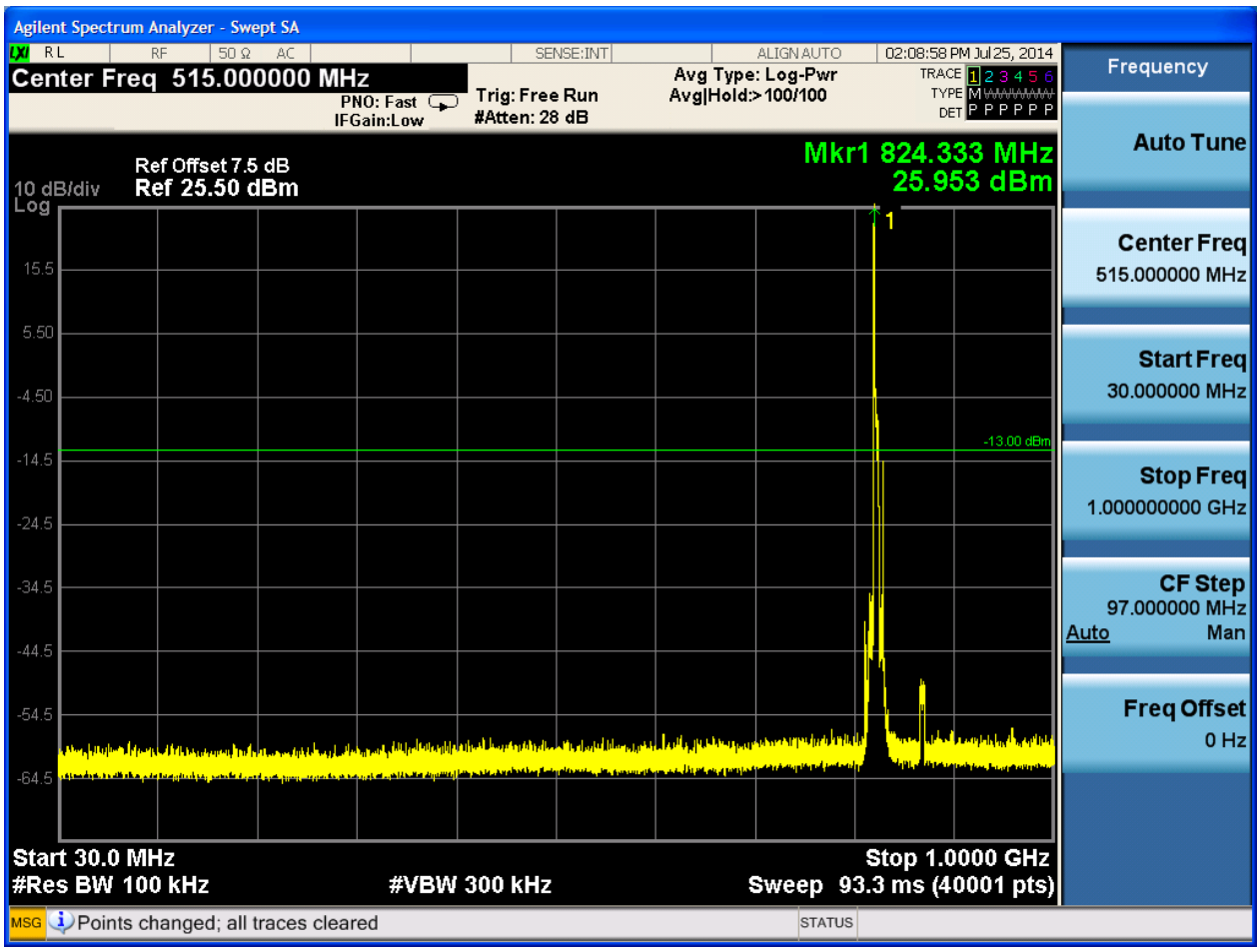

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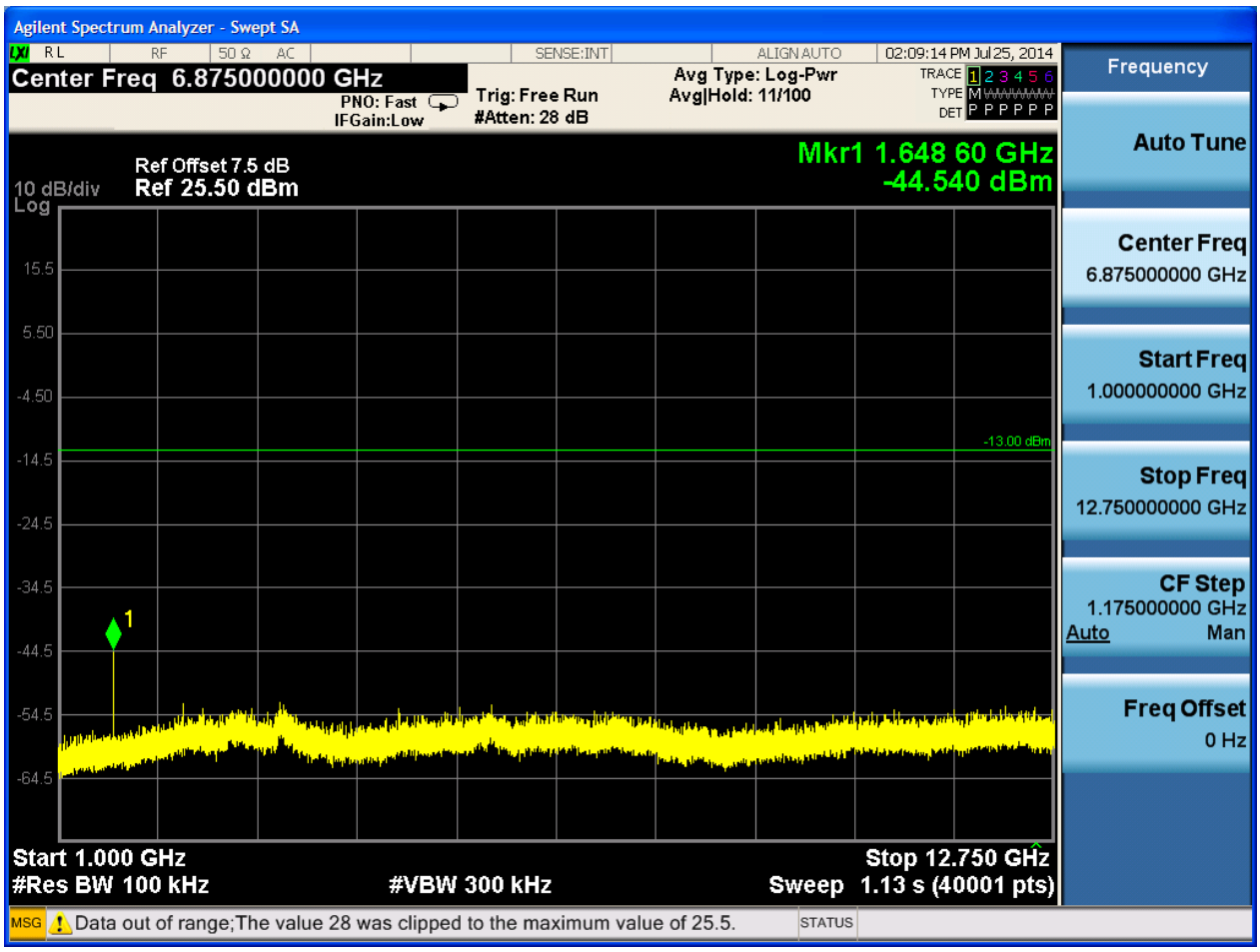

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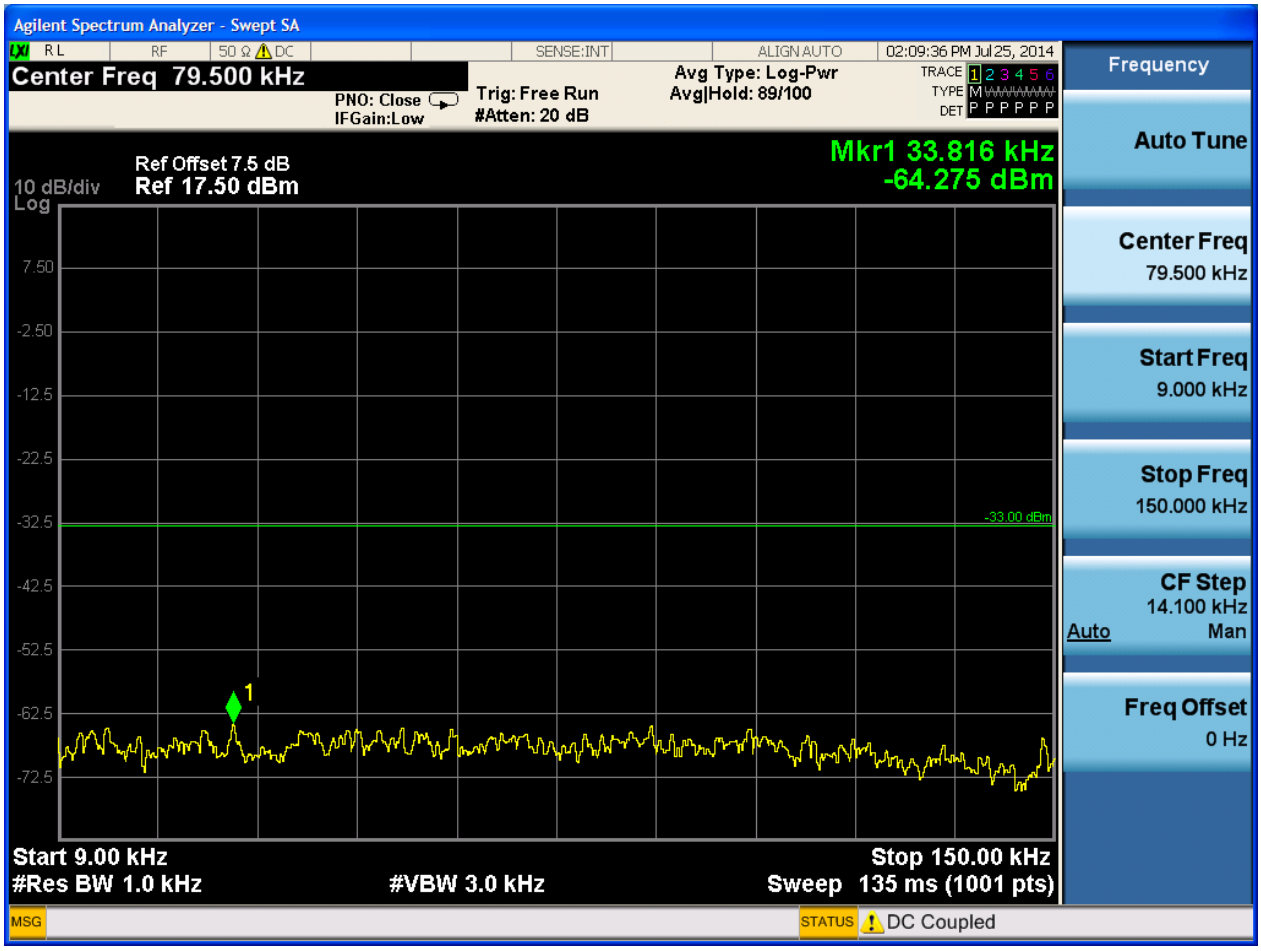
6.3.3.2.3.2 Test Channel = MCH

6.3.3.2.3.2.1 Test RB = RB1#0



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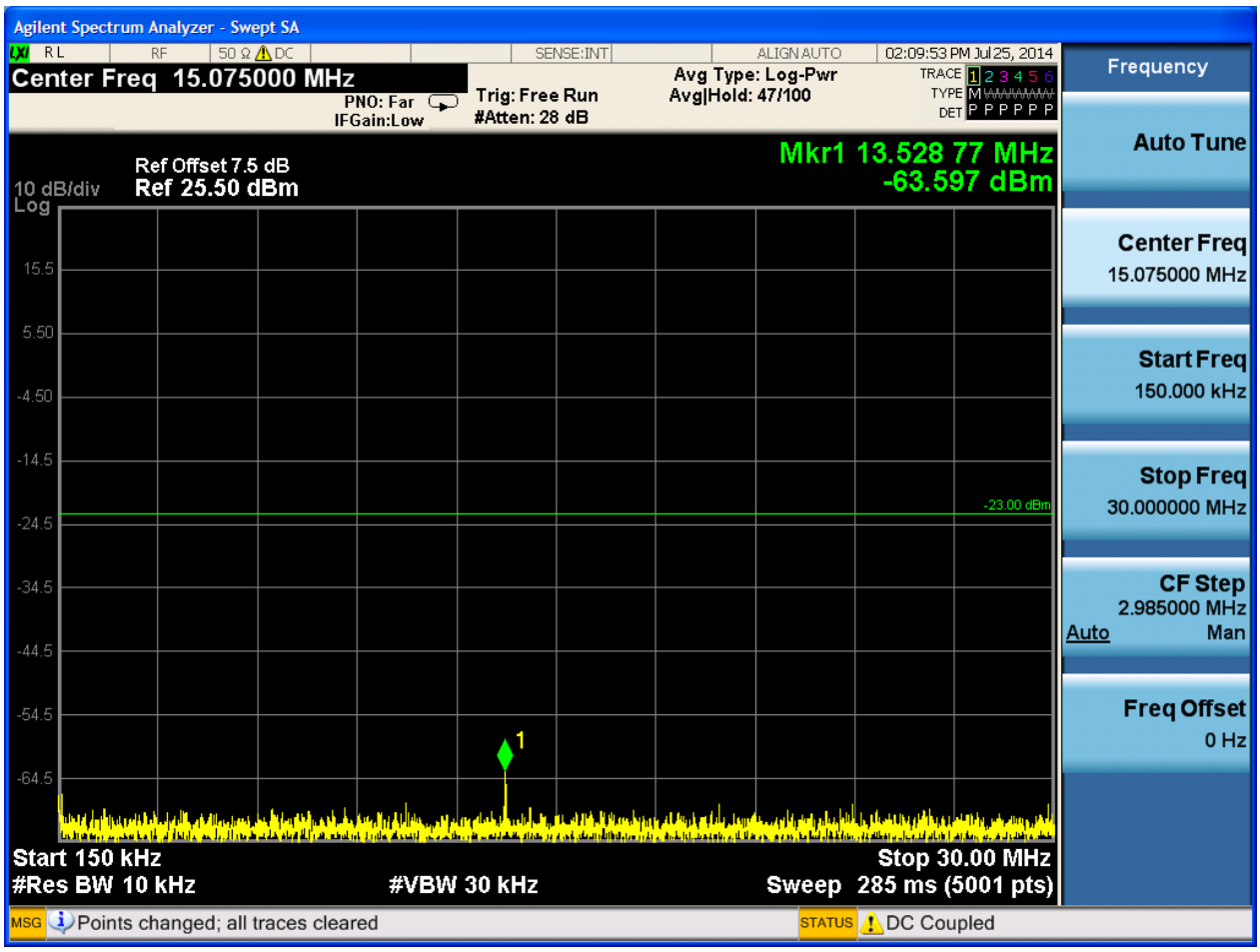

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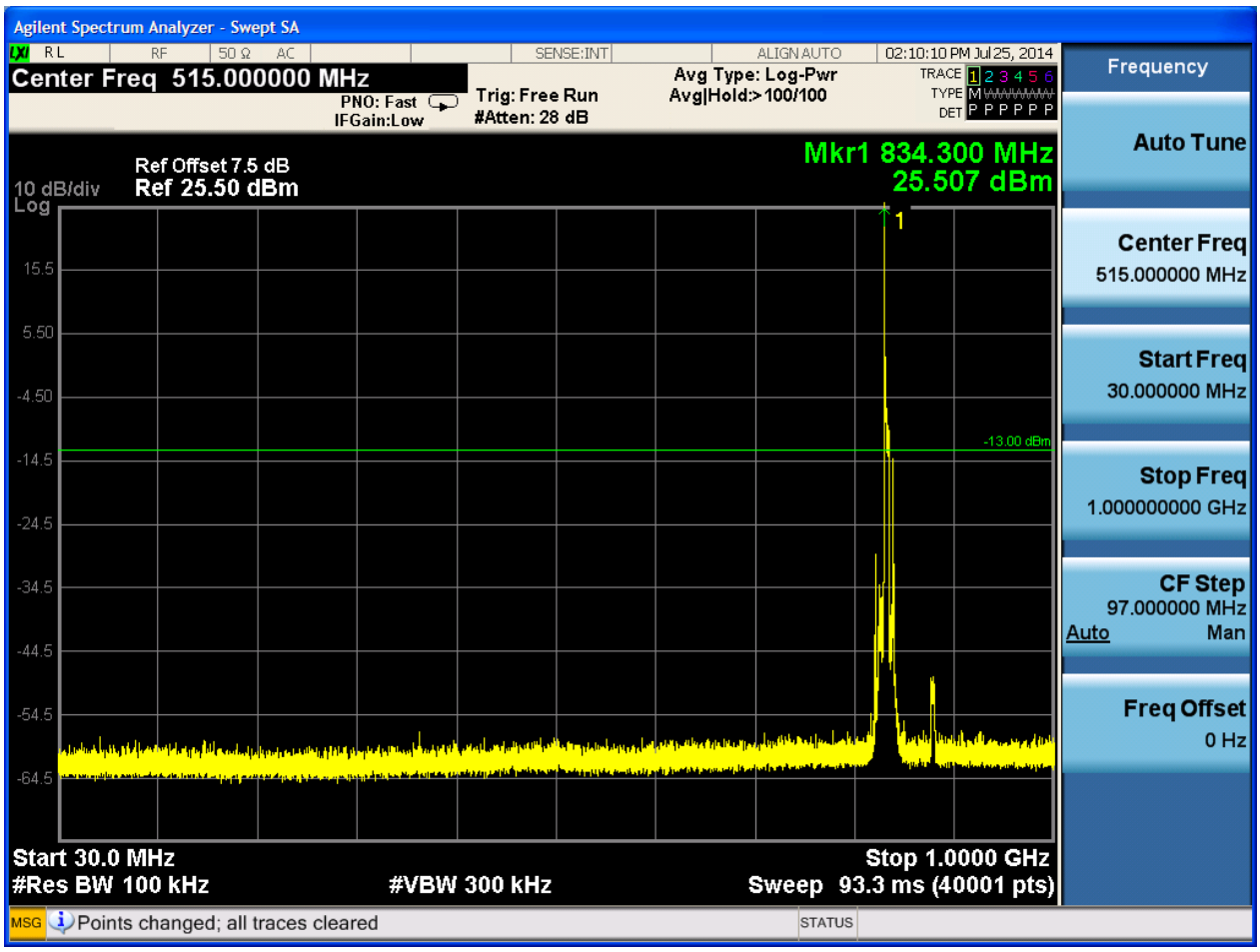

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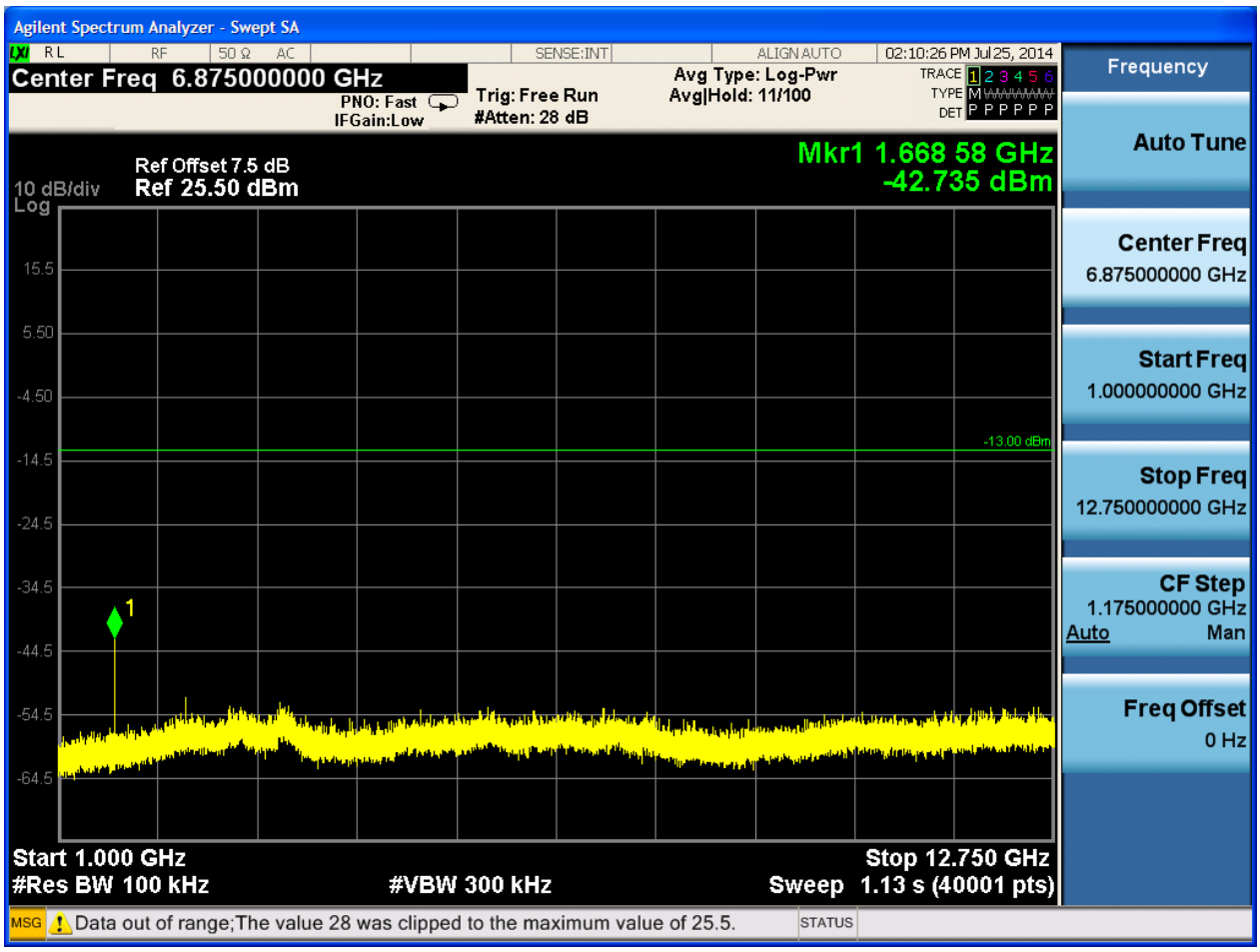

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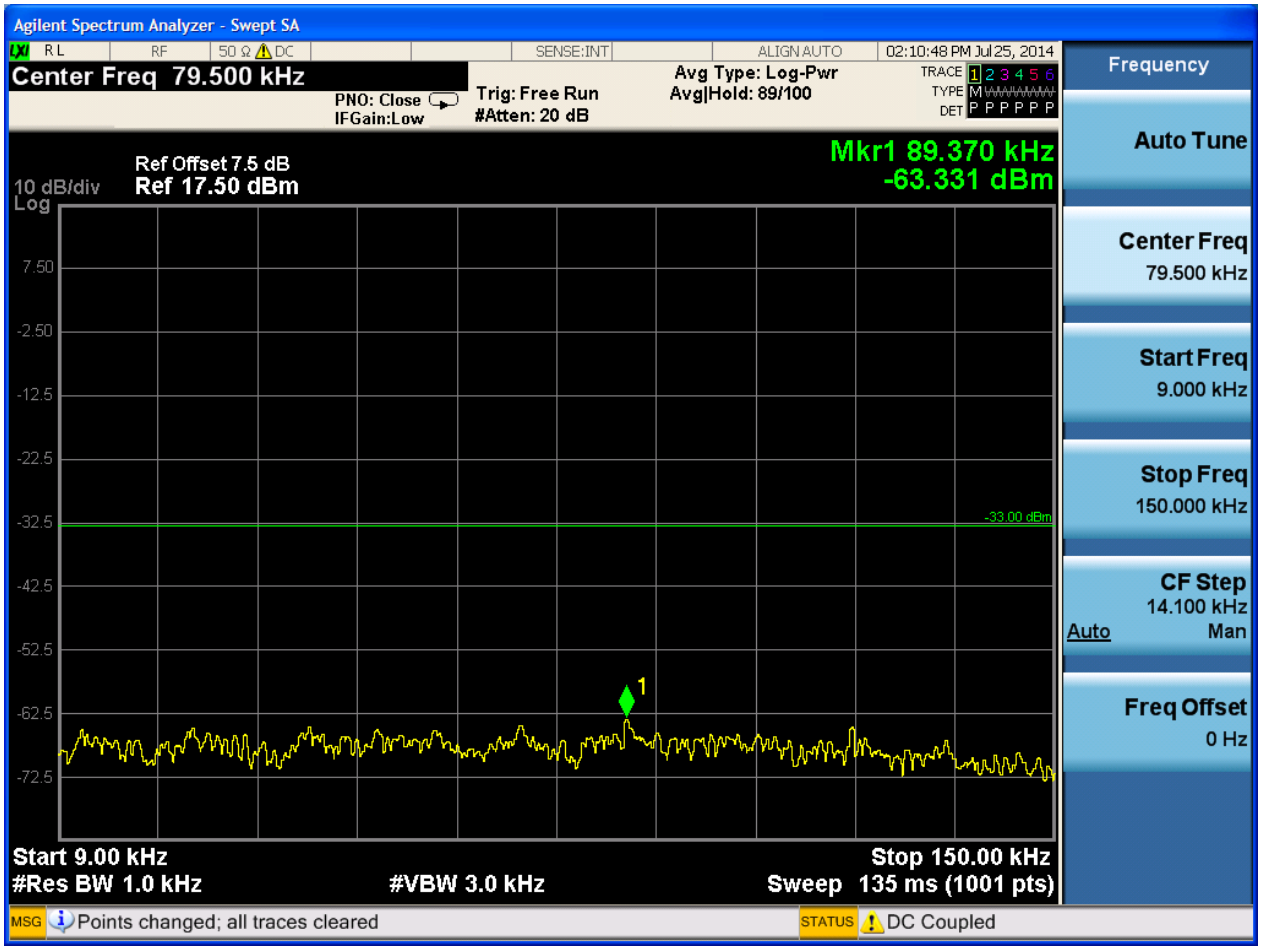
6.3.3.2.3.3 Test Channel = HCH

6.3.3.2.3.3.1 Test RB = RB1#0



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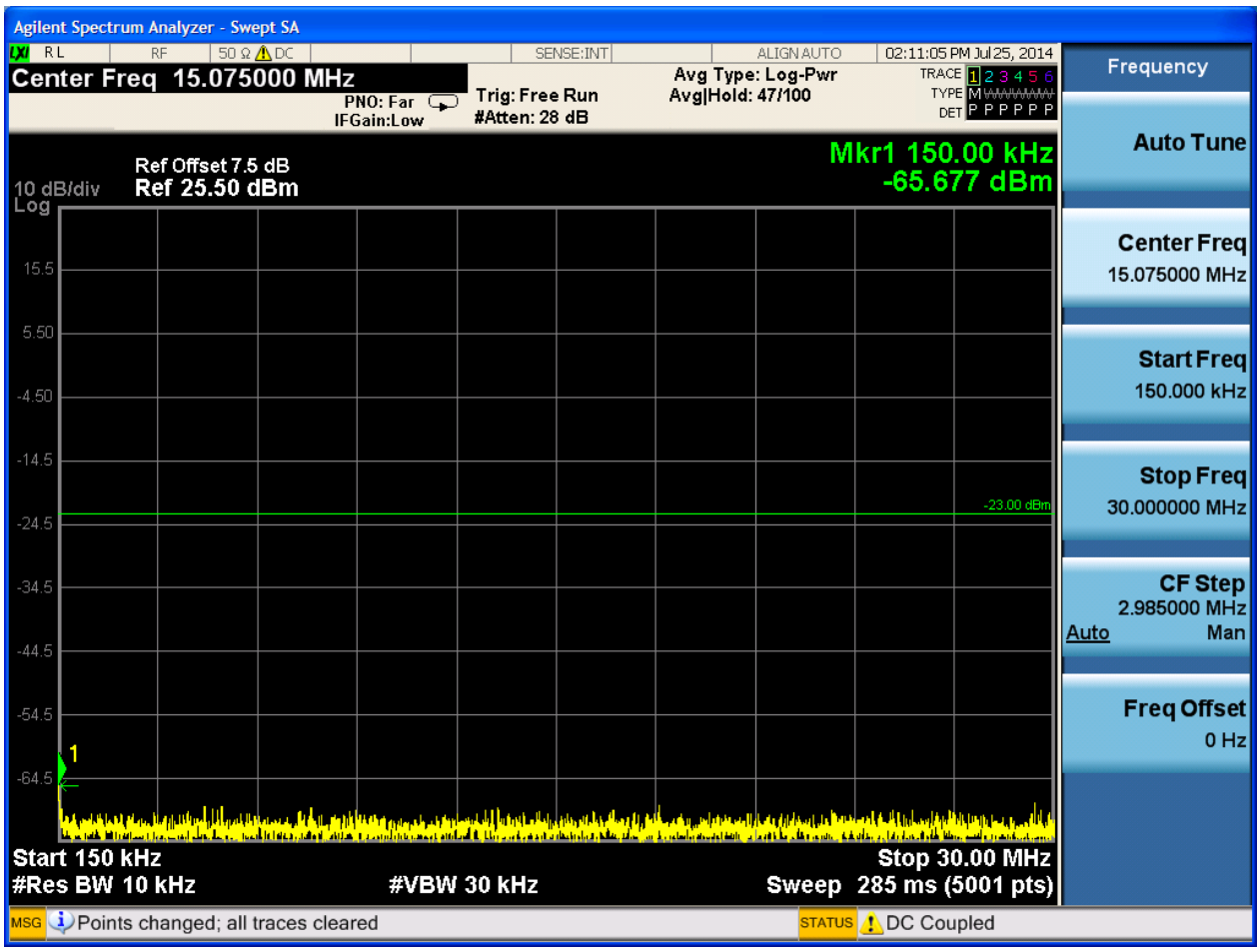

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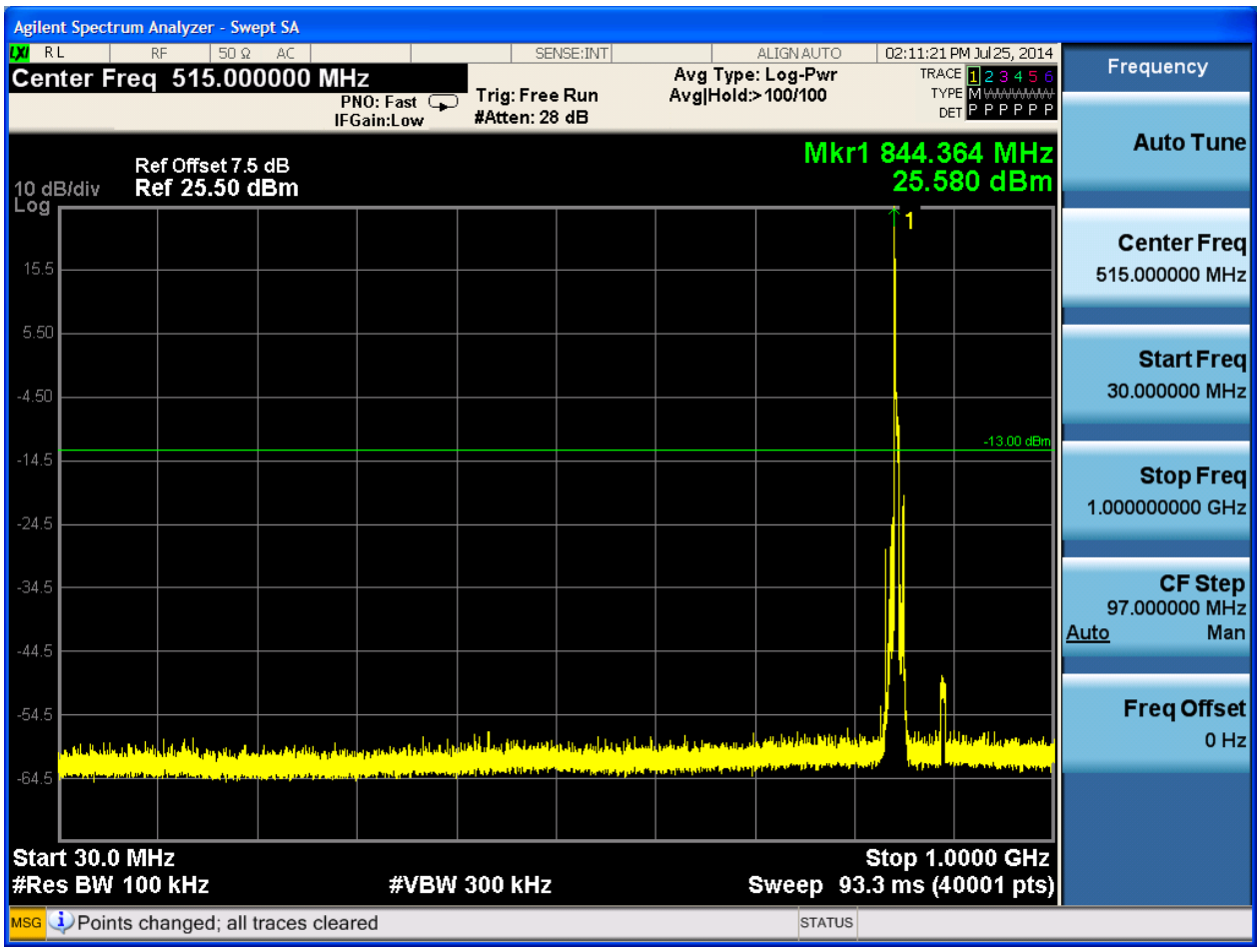

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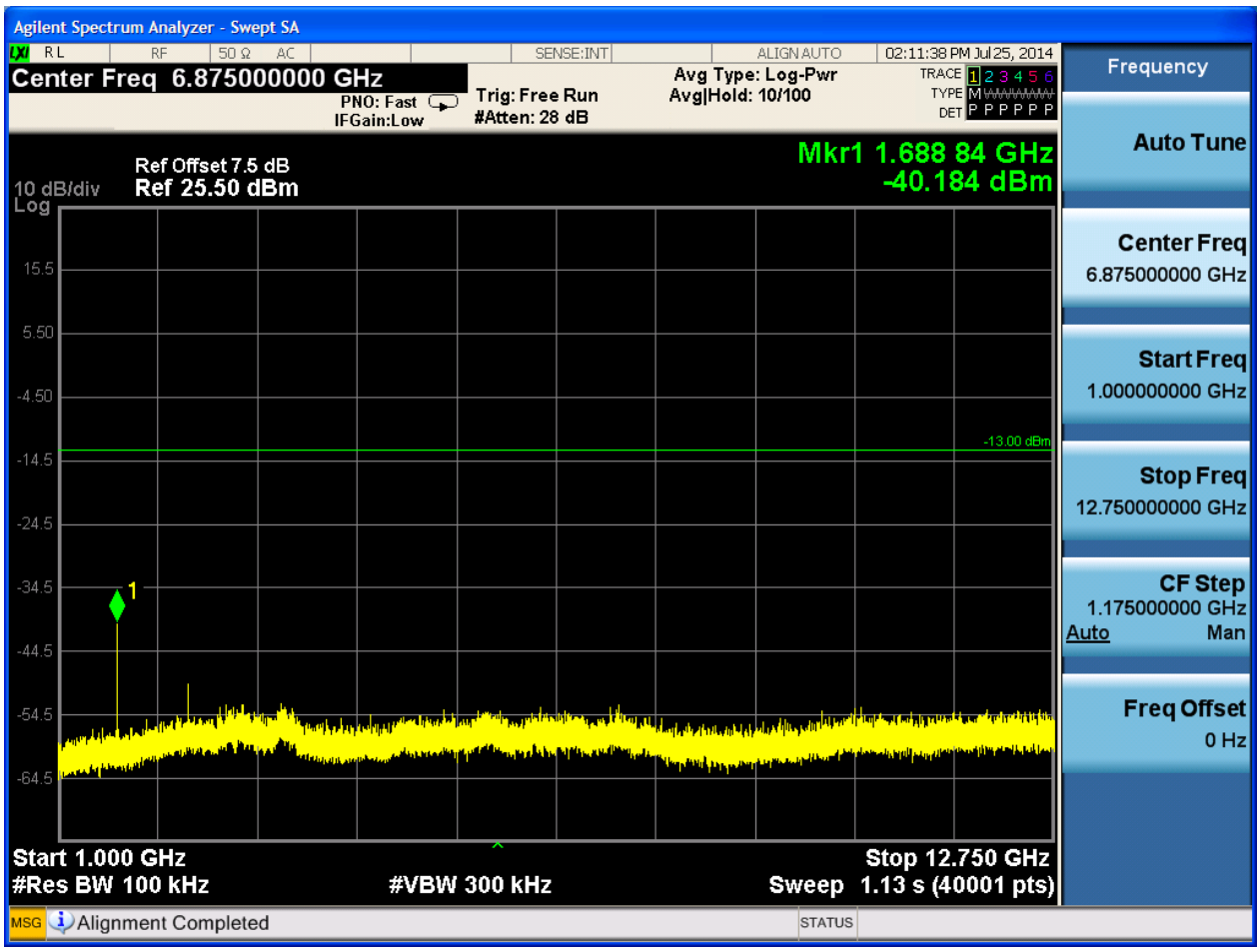

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6.3.3.2.4 Test Bandwidth = 10

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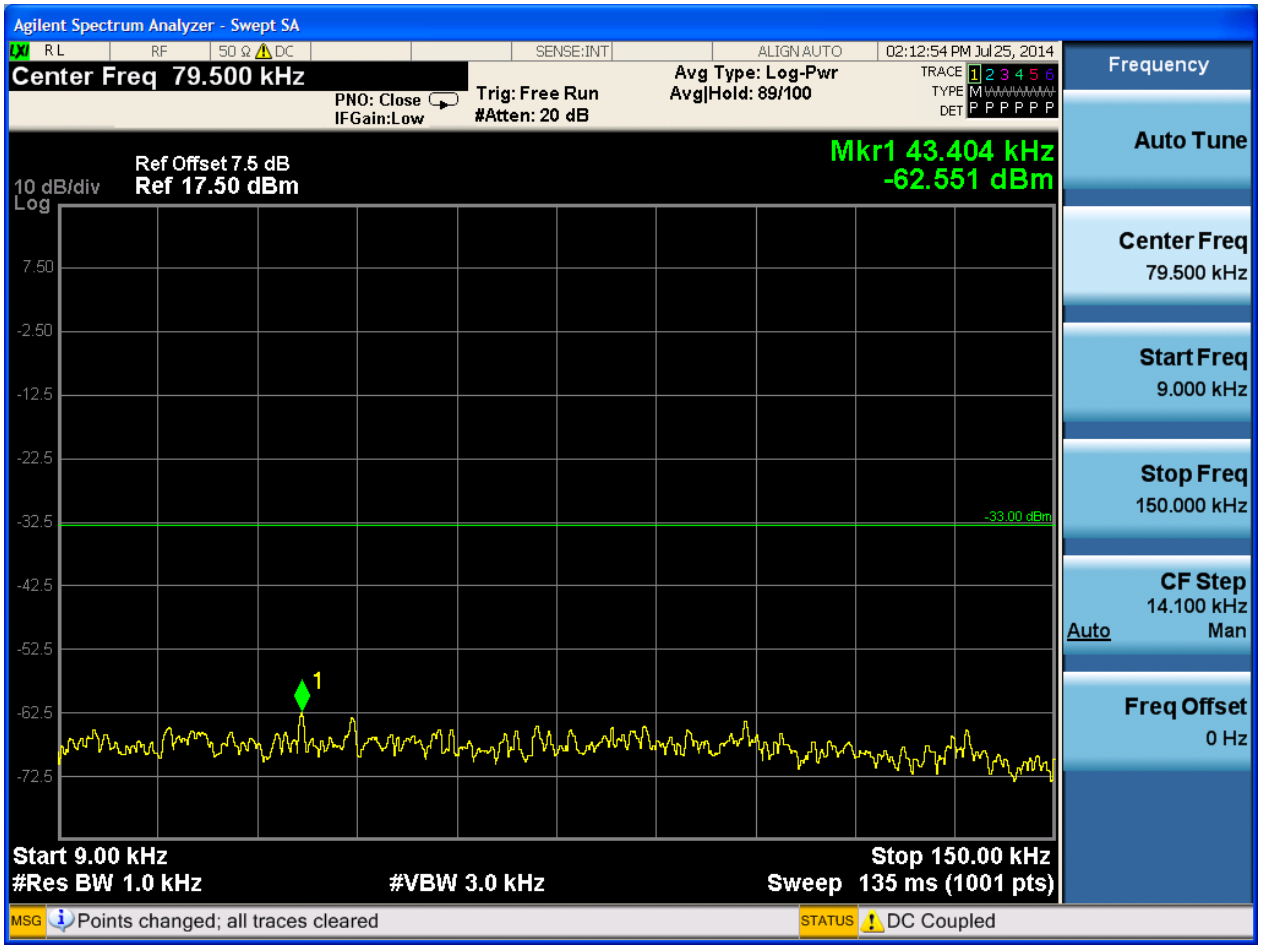
6.3.3.2.4.1.1 Test RB = RB1#0



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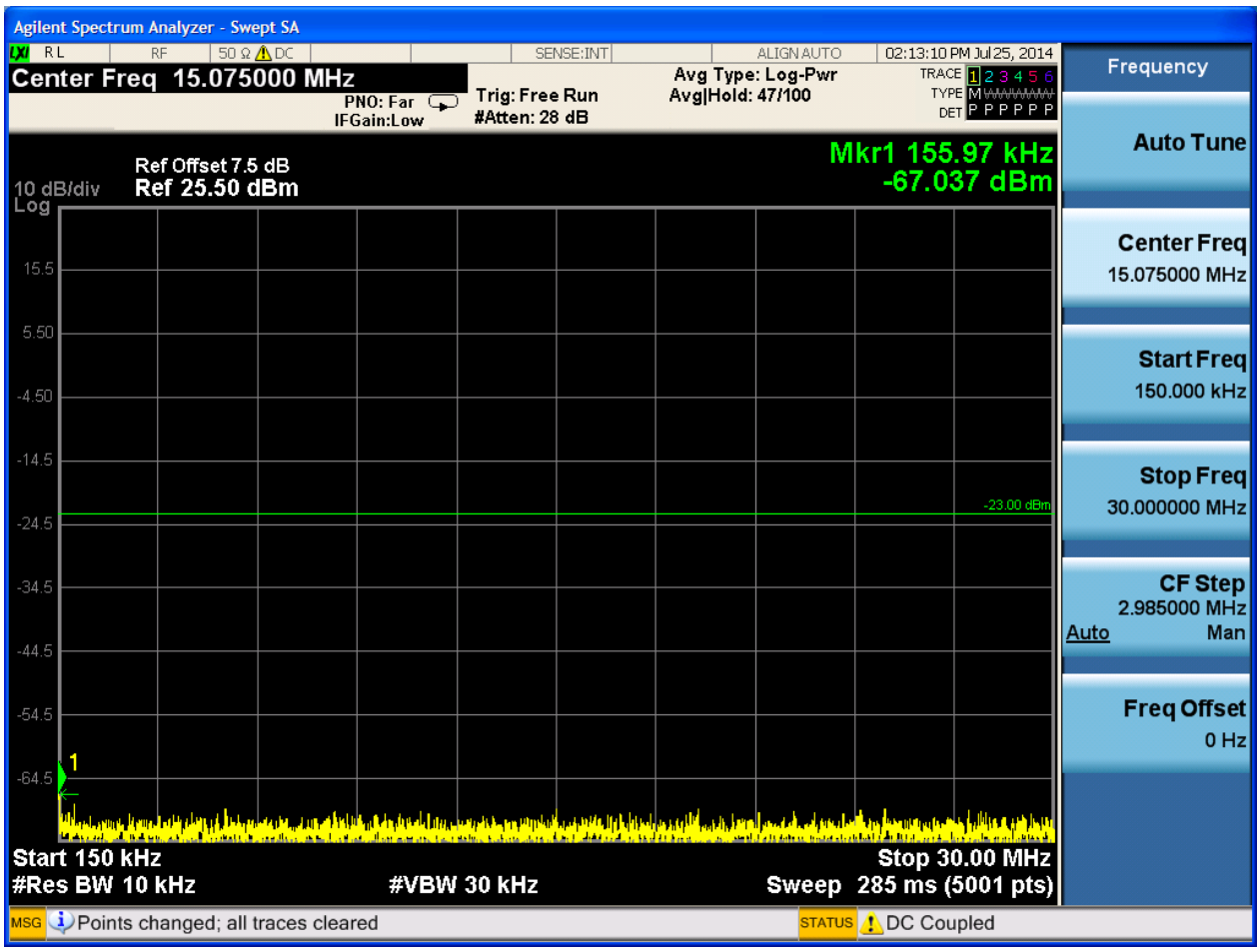

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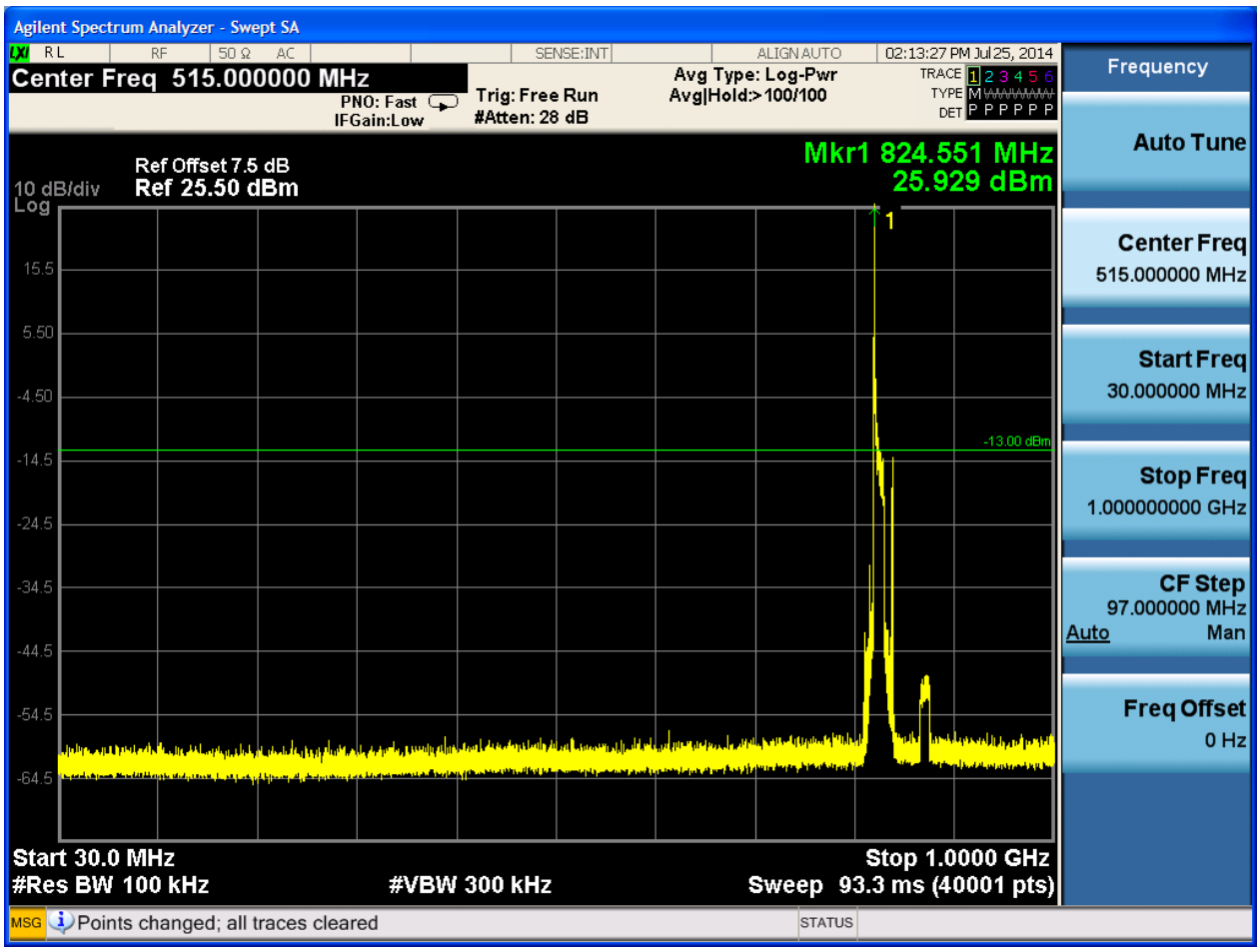

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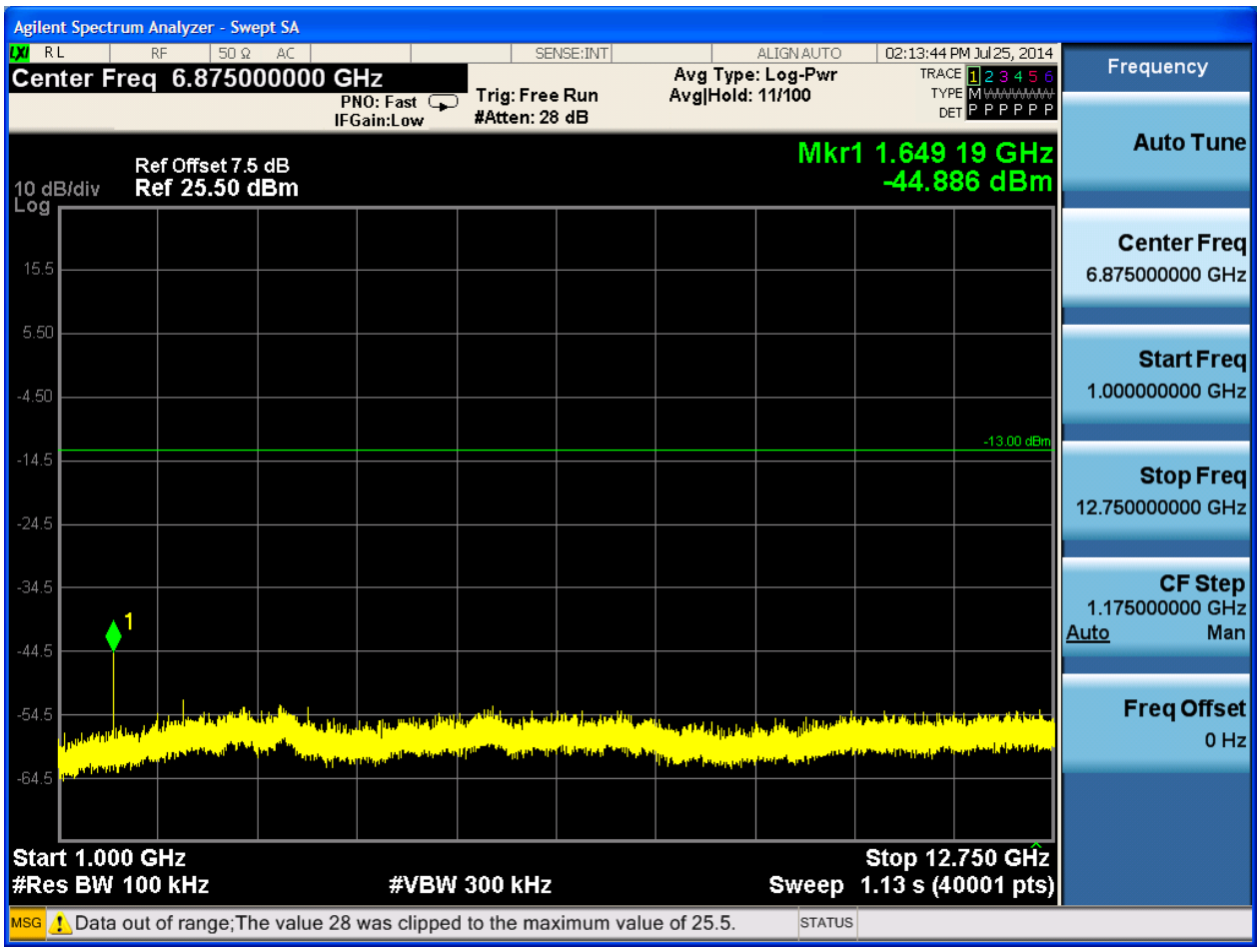

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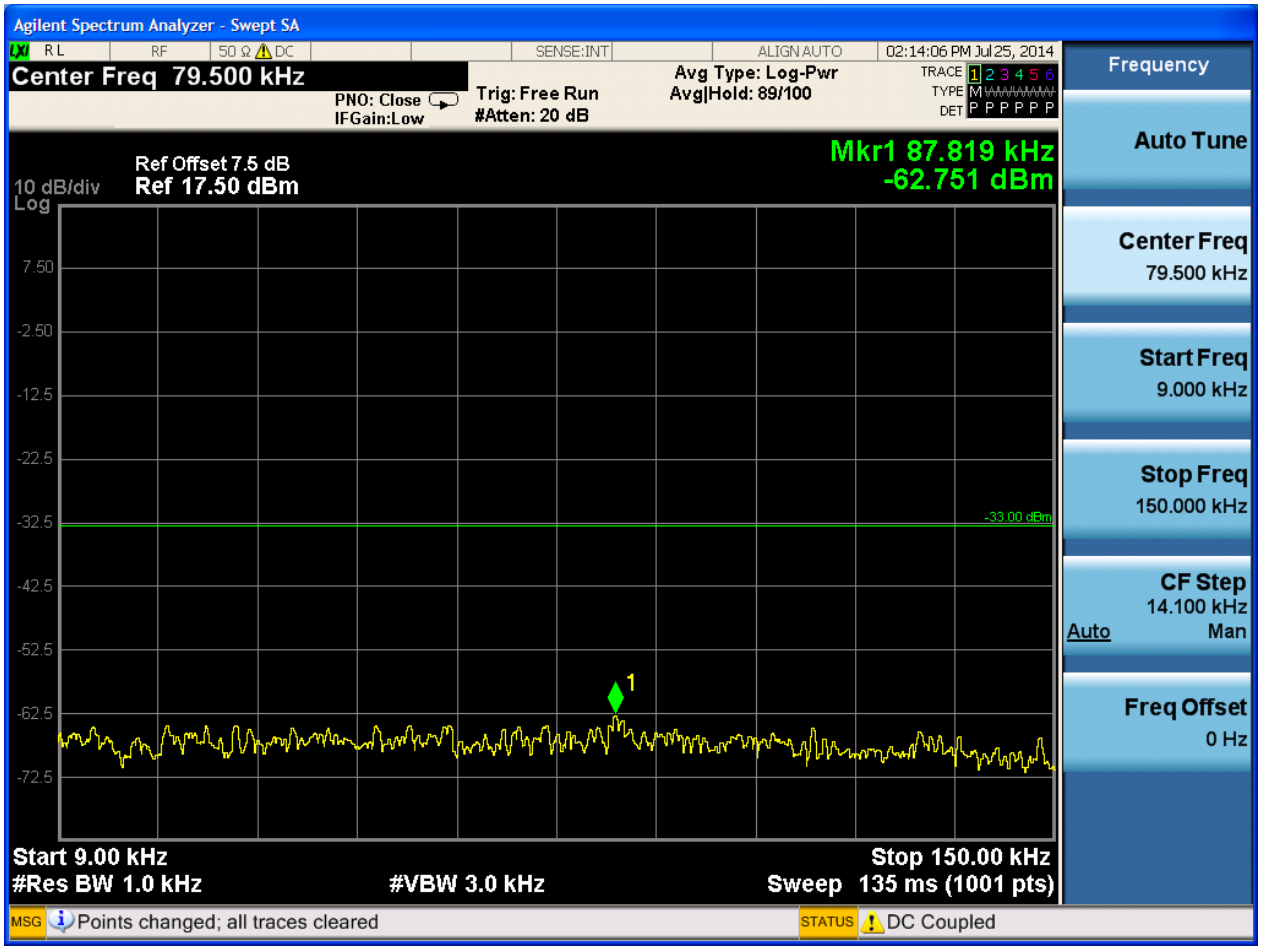
6.3.3.2.4.2 Test Channel = MCH

6.3.3.2.4.2.1 Test RB = RB1#0



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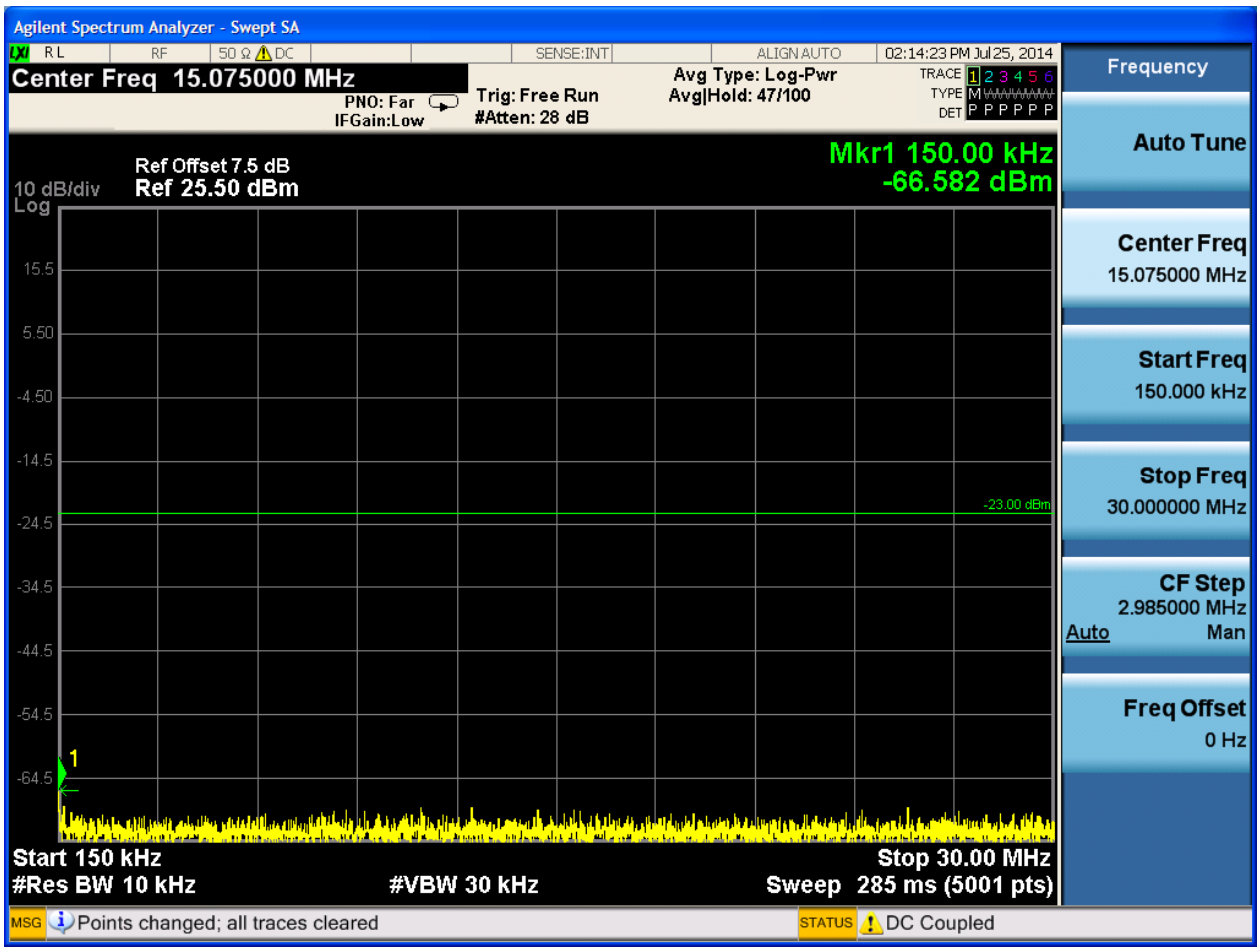

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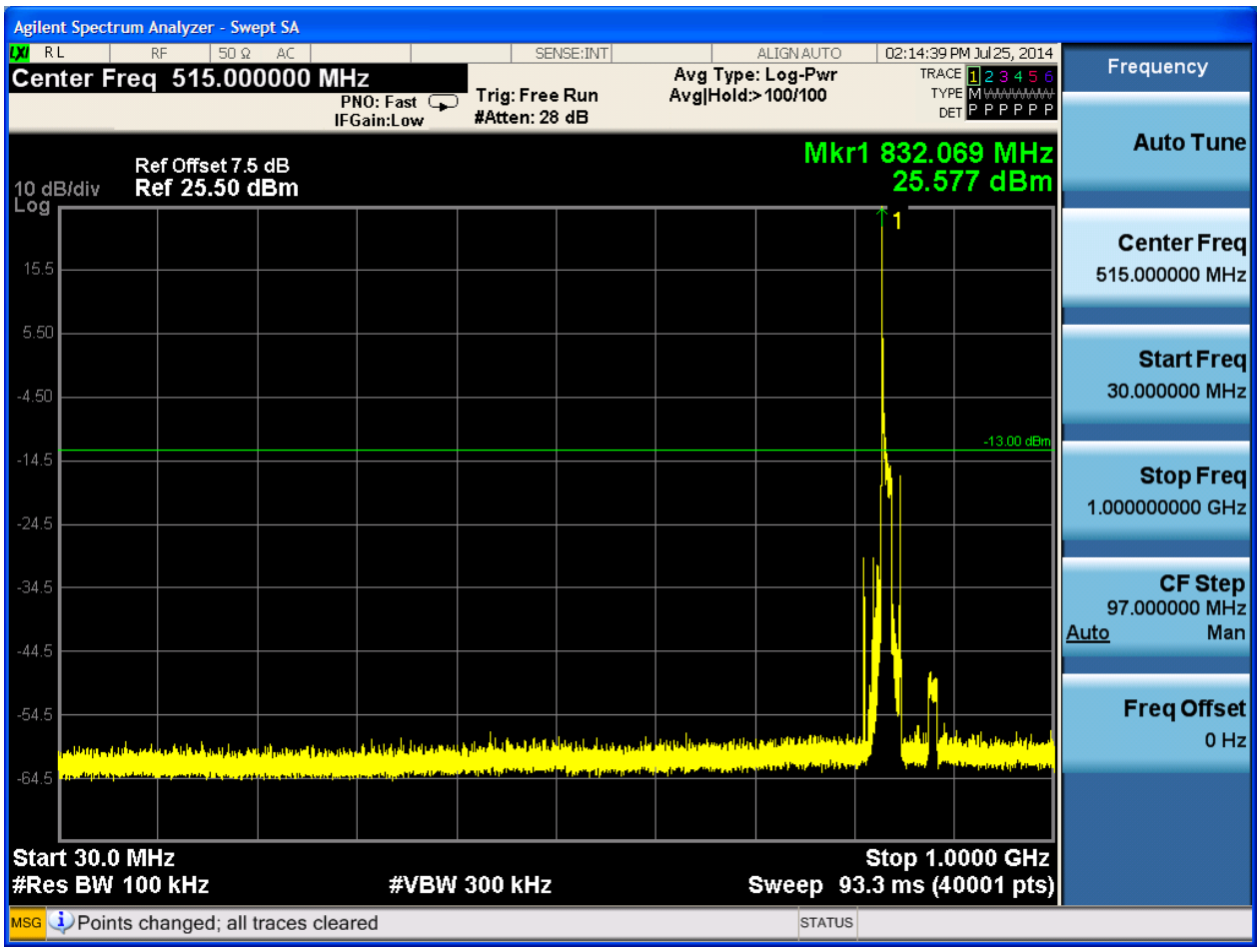

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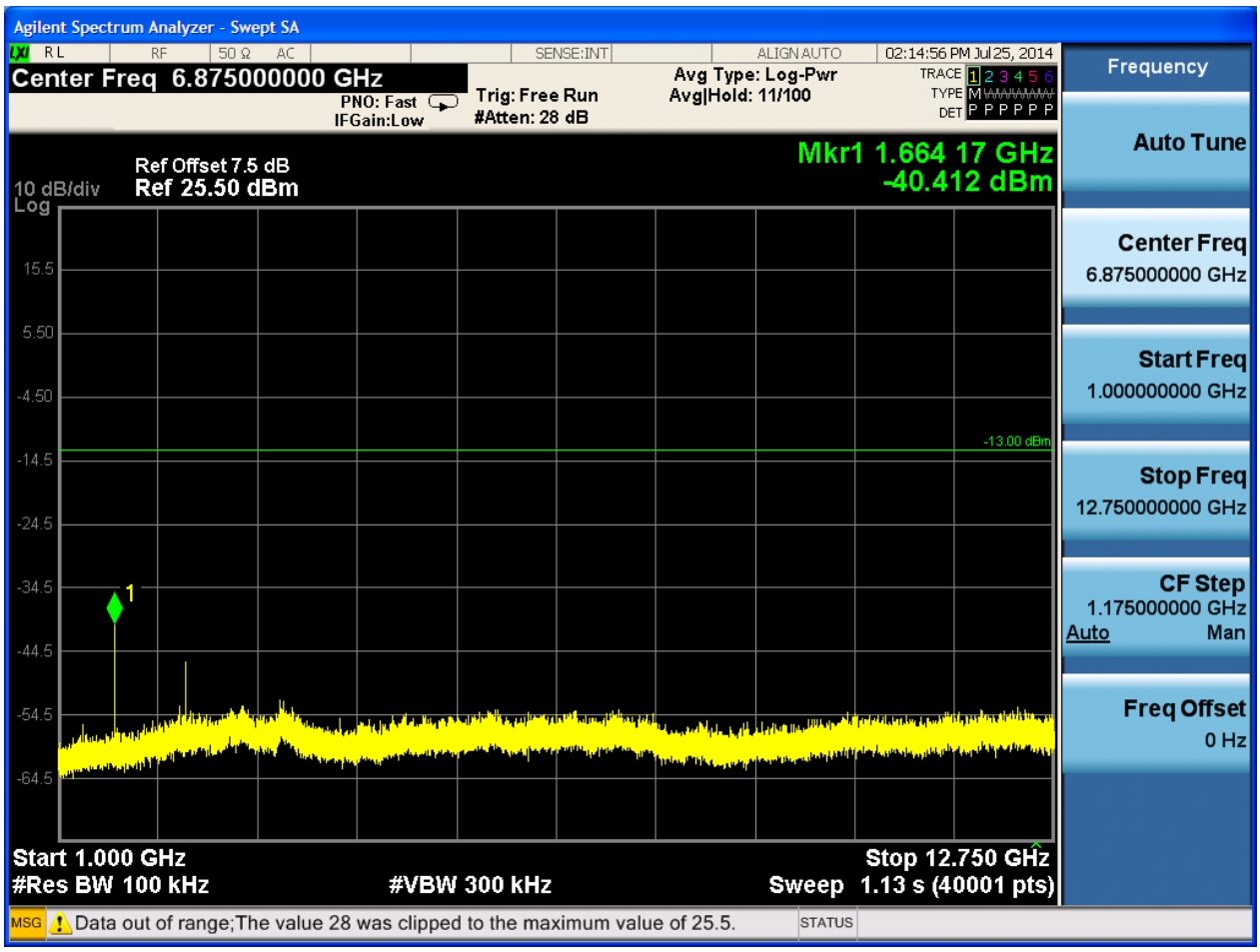

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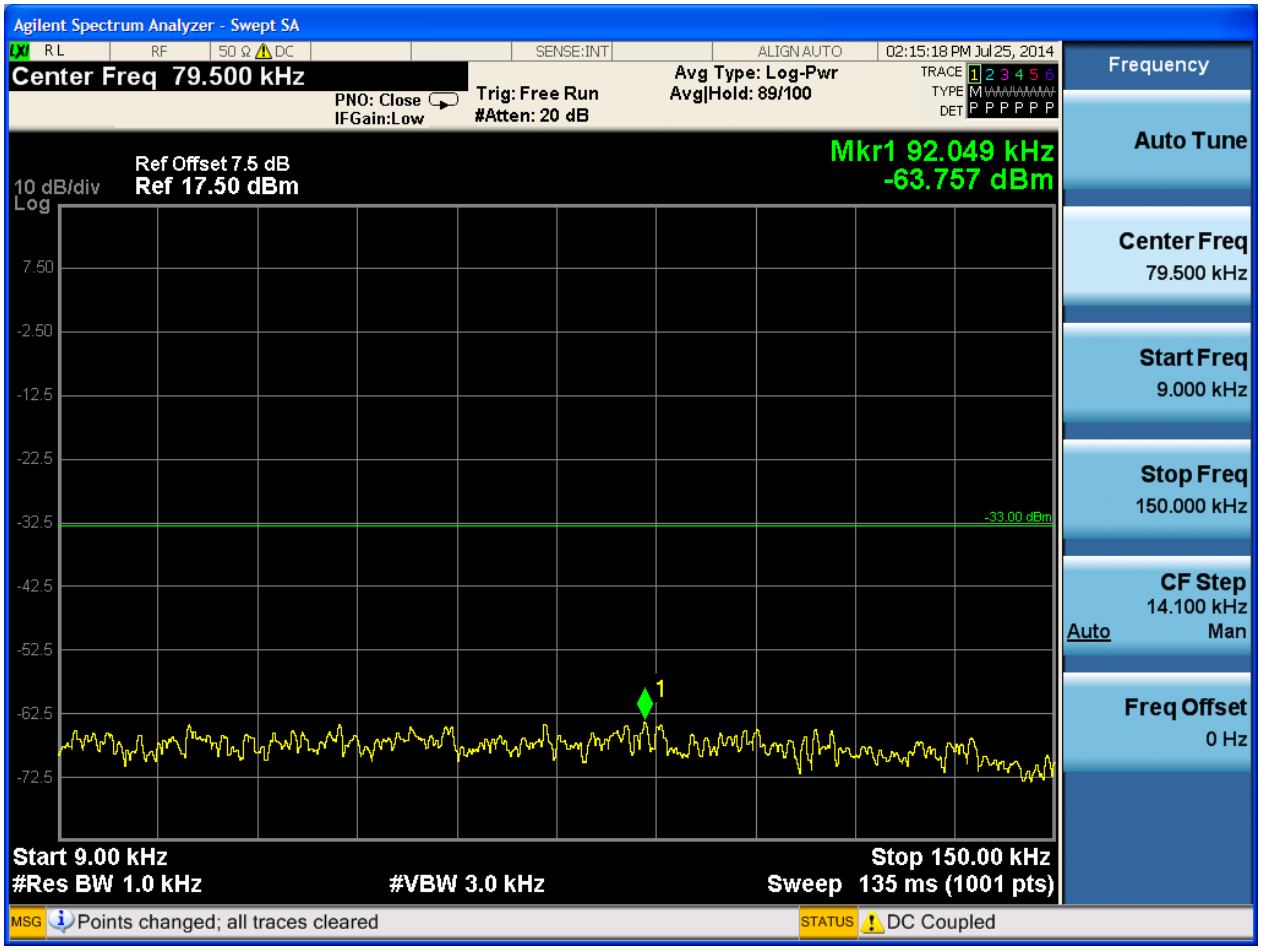
6.3.3.2.4.3 Test Channel = HCH

6.3.3.2.4.3.1 Test RB = RB1#0



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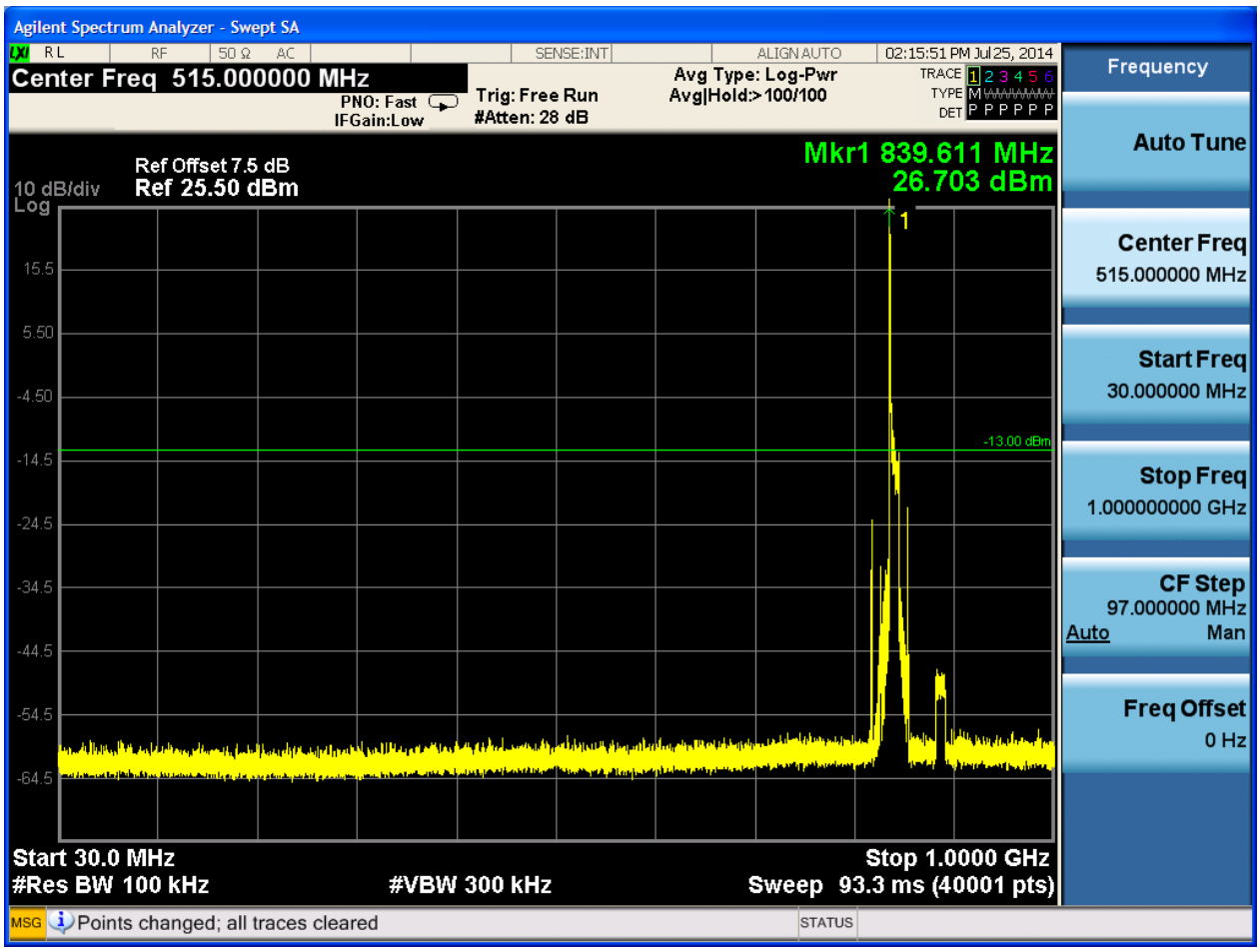

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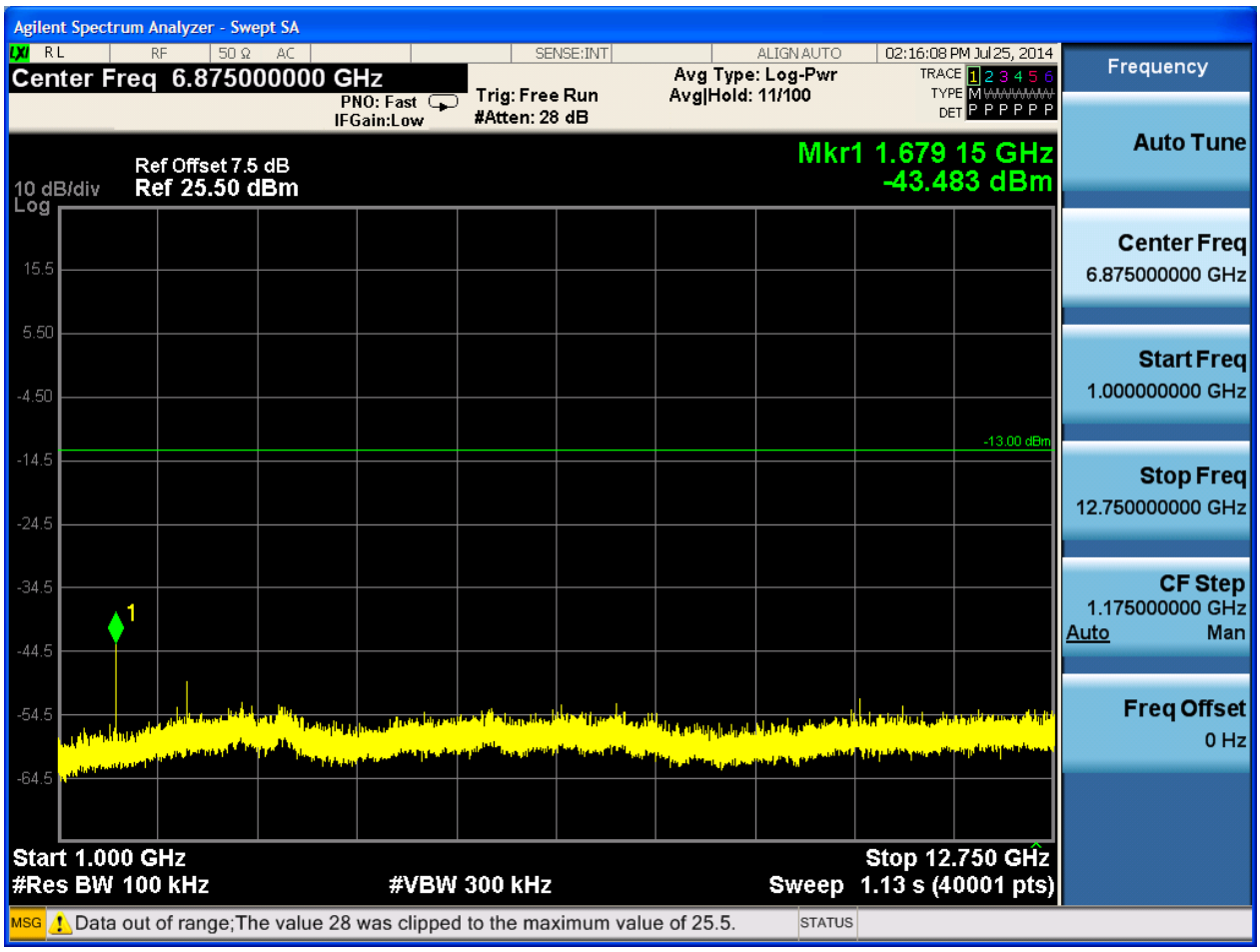

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7Appendix_G: Field Strength of Spurious Radiation

Note:

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

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

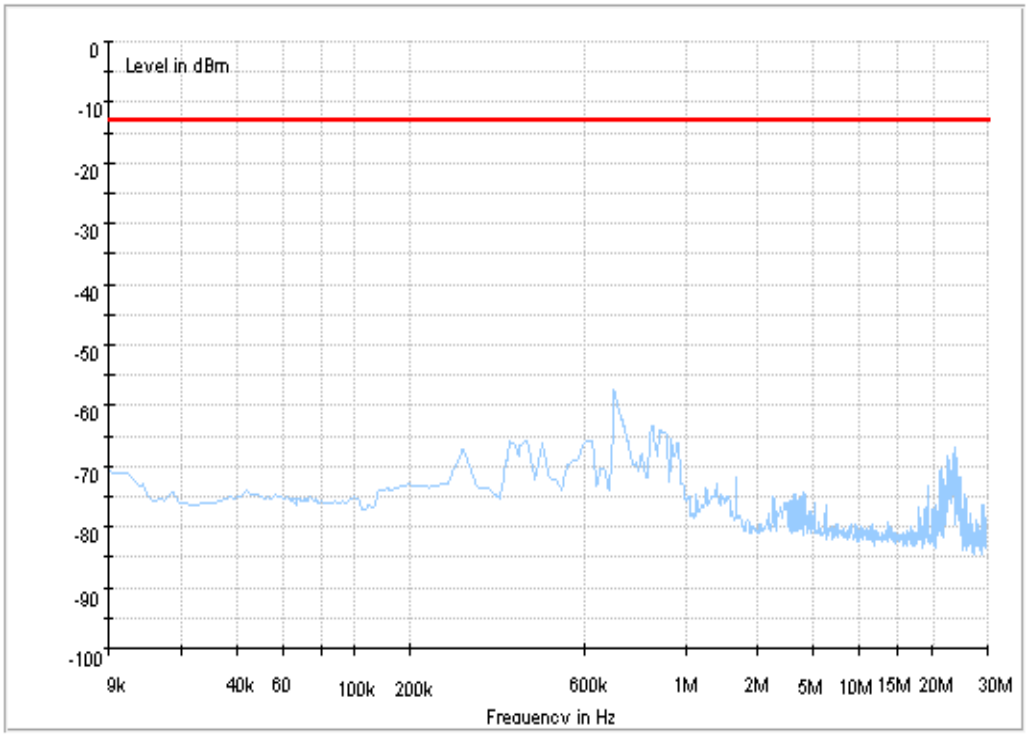
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

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

Part I - Test Plots

7.3.3 Test Band = BAND5

7.3.3.1 Test Bandwidth = 1.4



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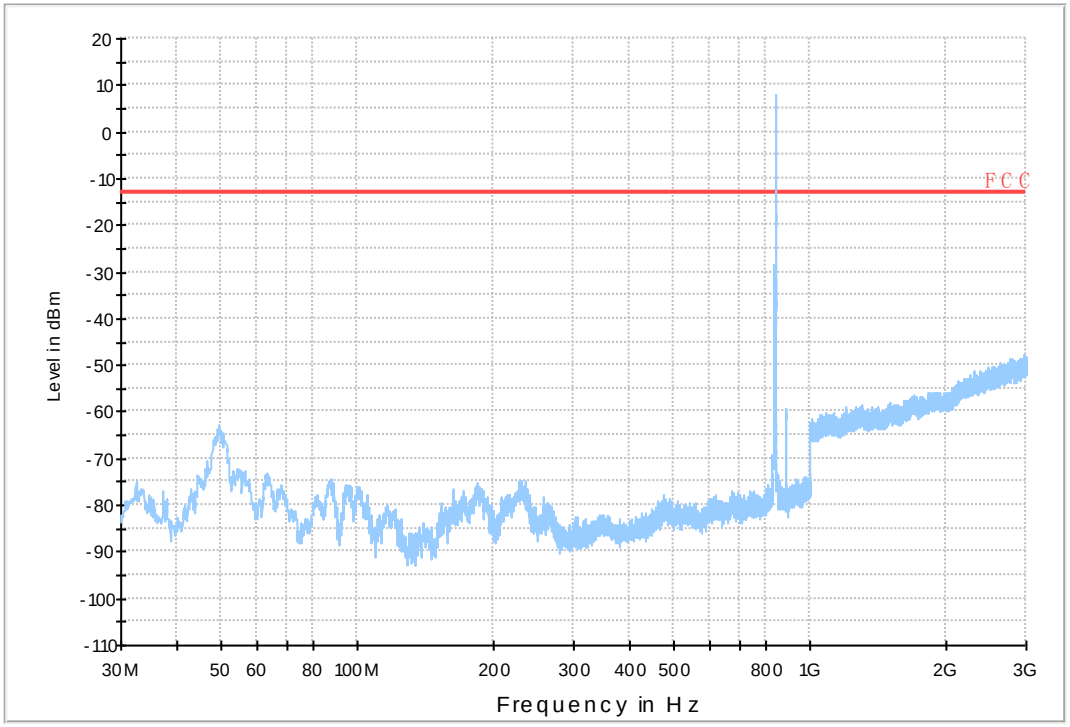
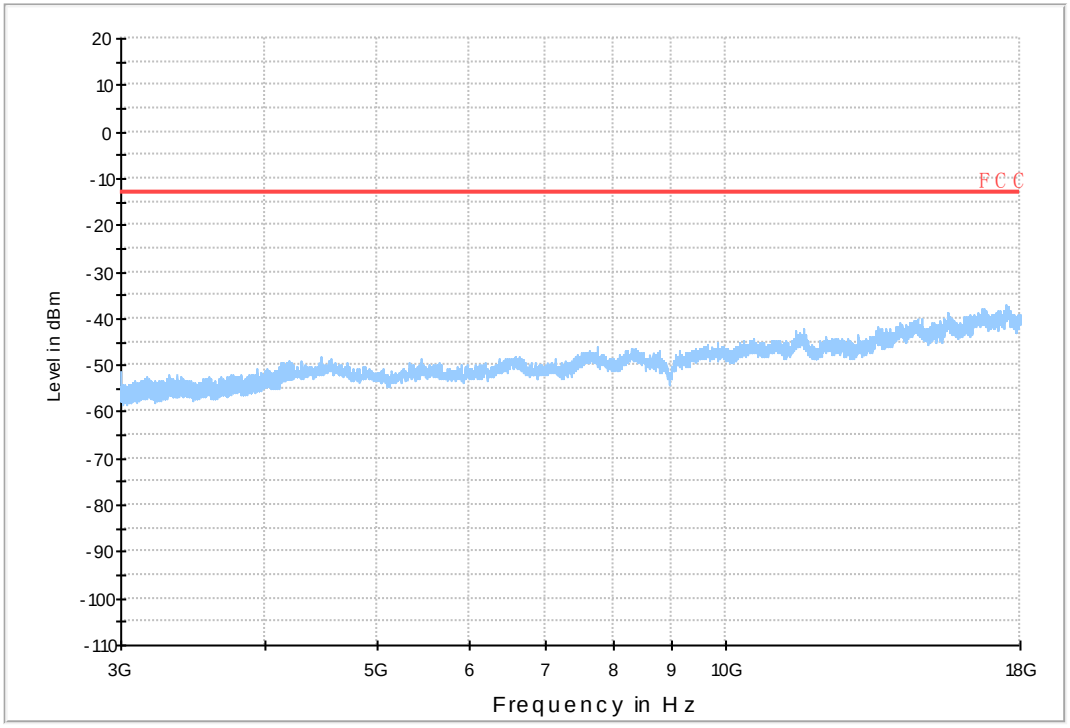
Copy of FCC PART22 LTE Band 5_L



Copy of FCC PART22 LTE Band 5_H



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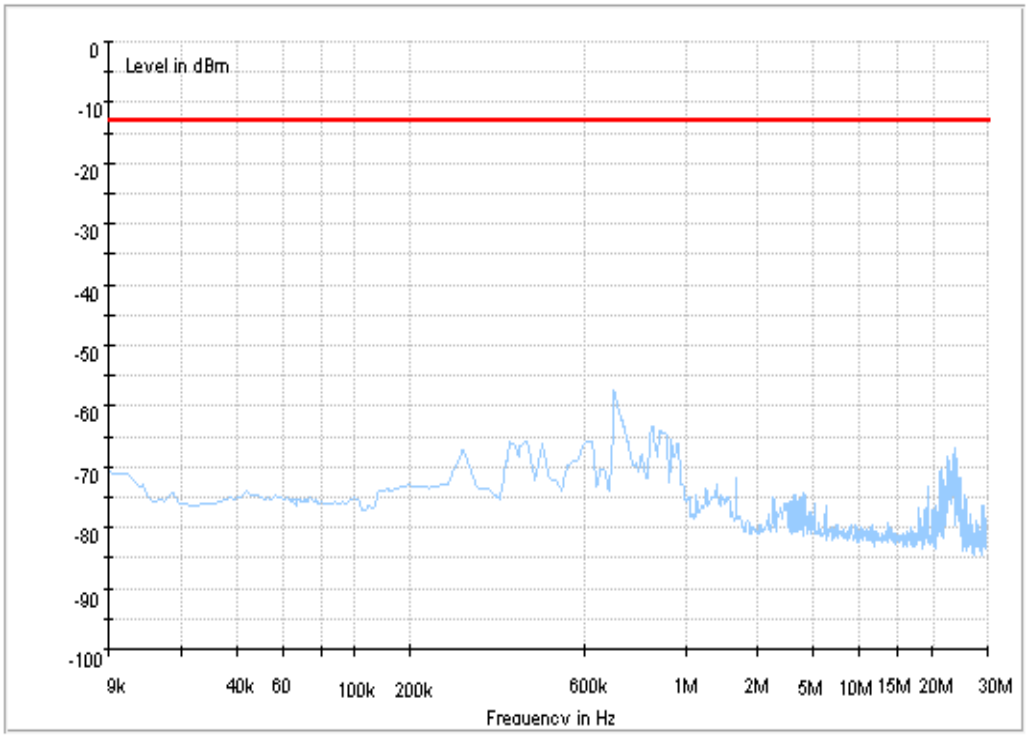
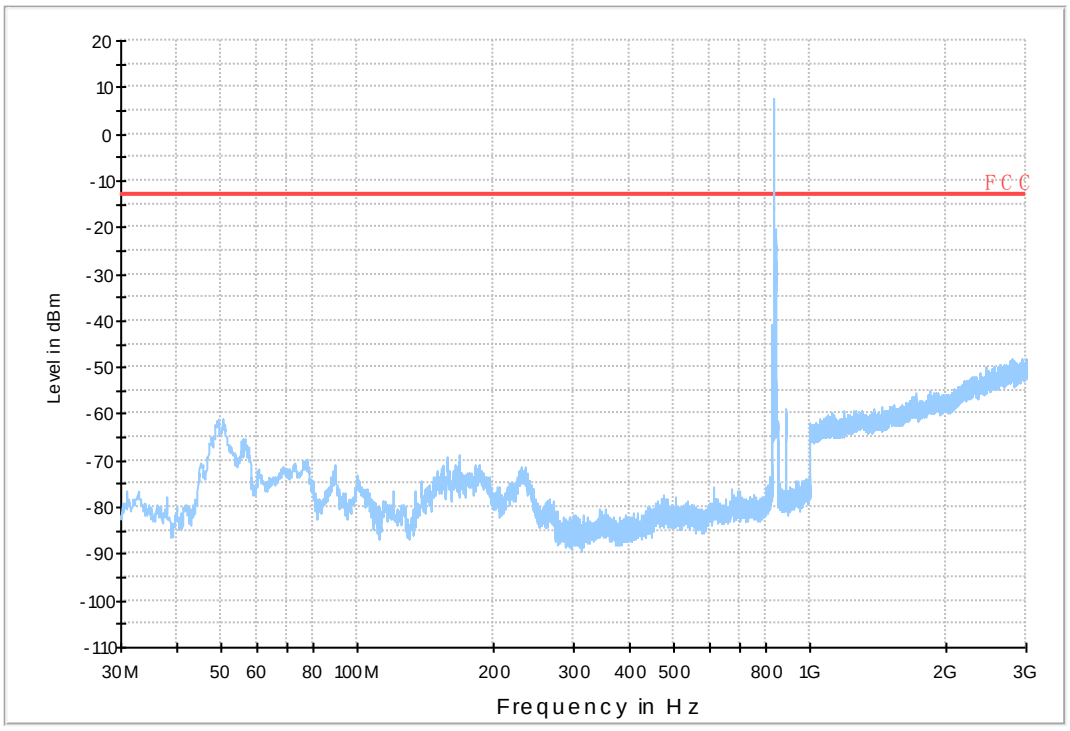
7.3.3.2 Test Bandwidth = 5



Copy of FCC PART22 LTE Band 5_L



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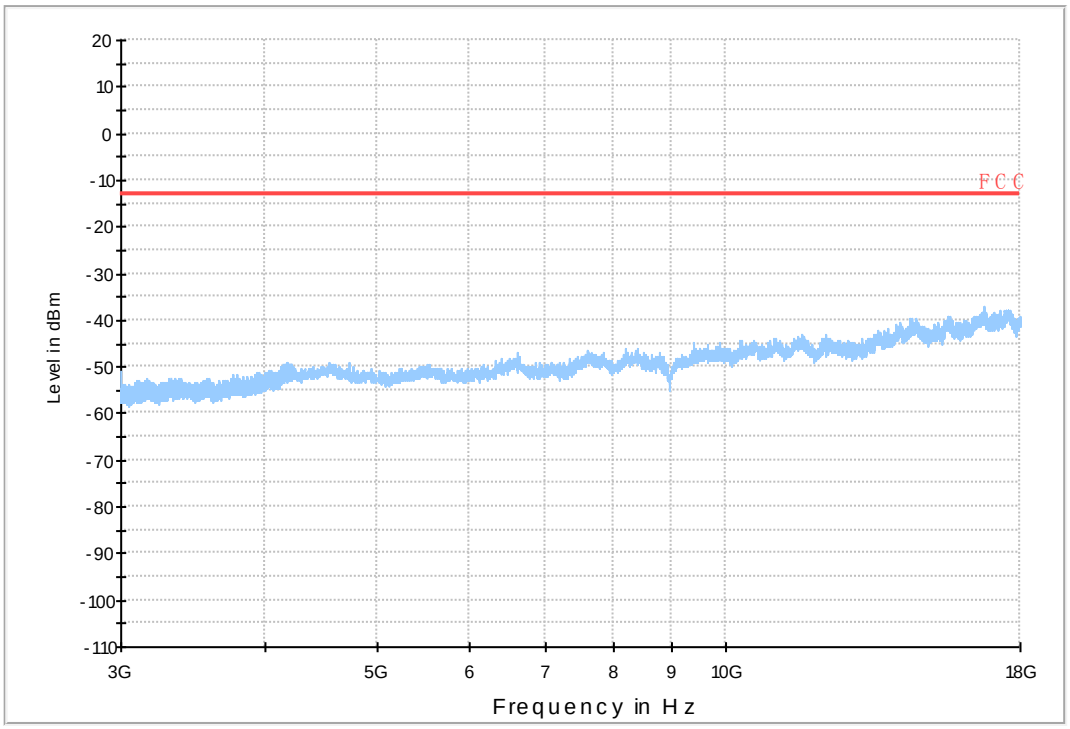
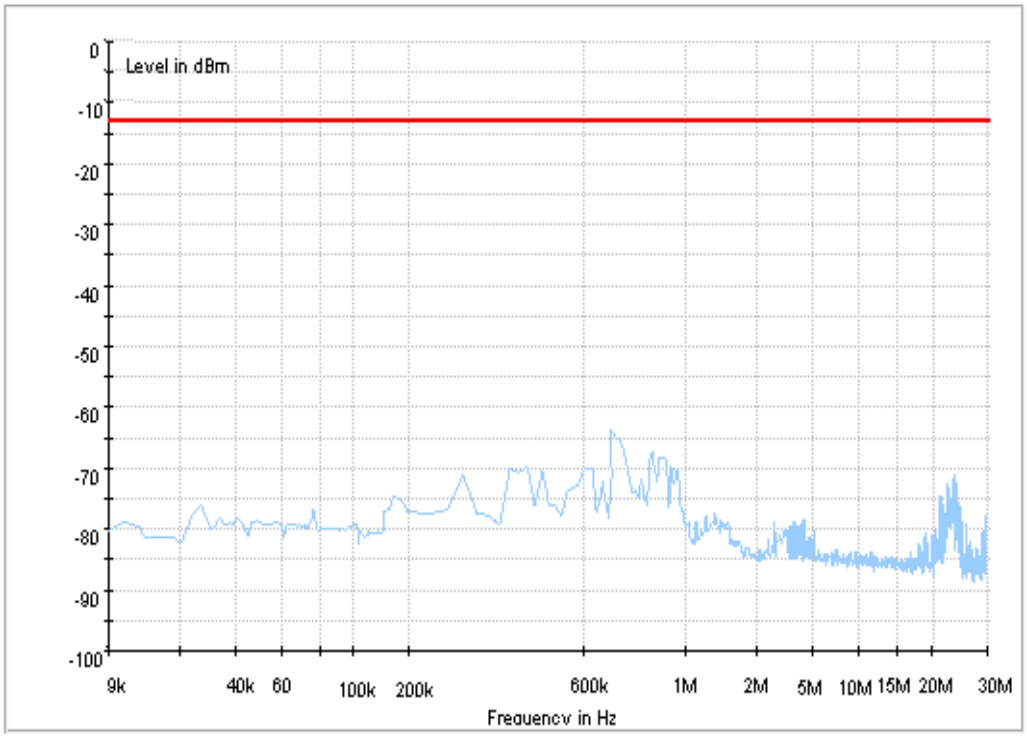
Copy of FCC PART22 LTE Band 5_H



7.3.3.3 Test Bandwidth = 10



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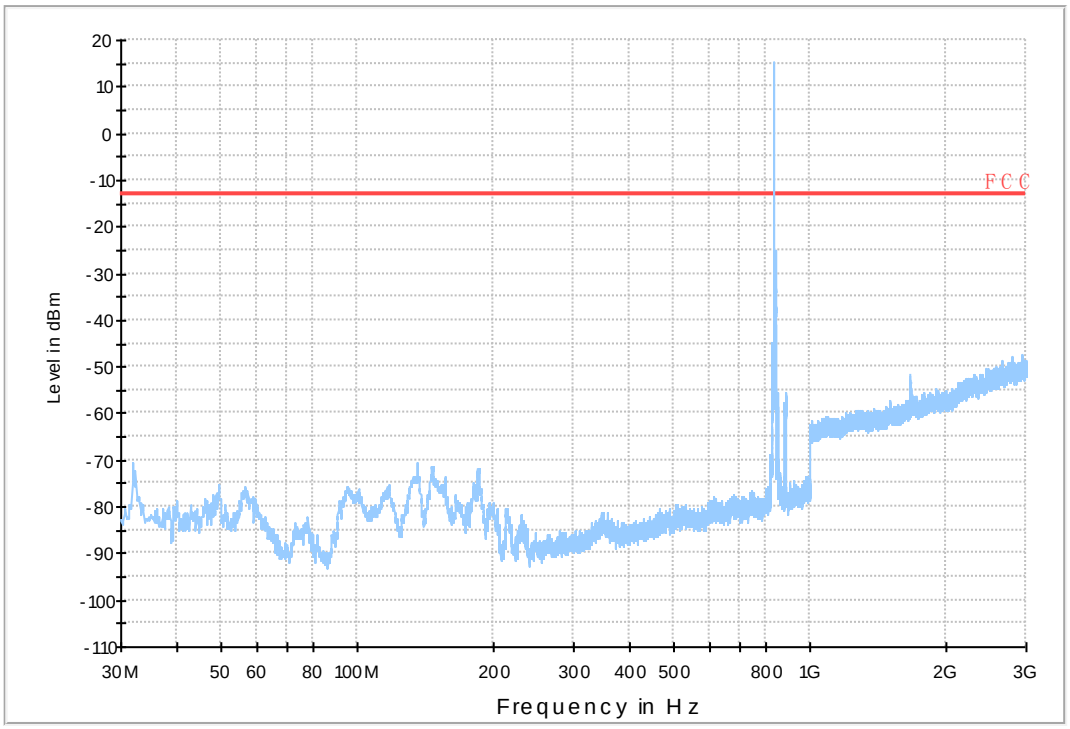
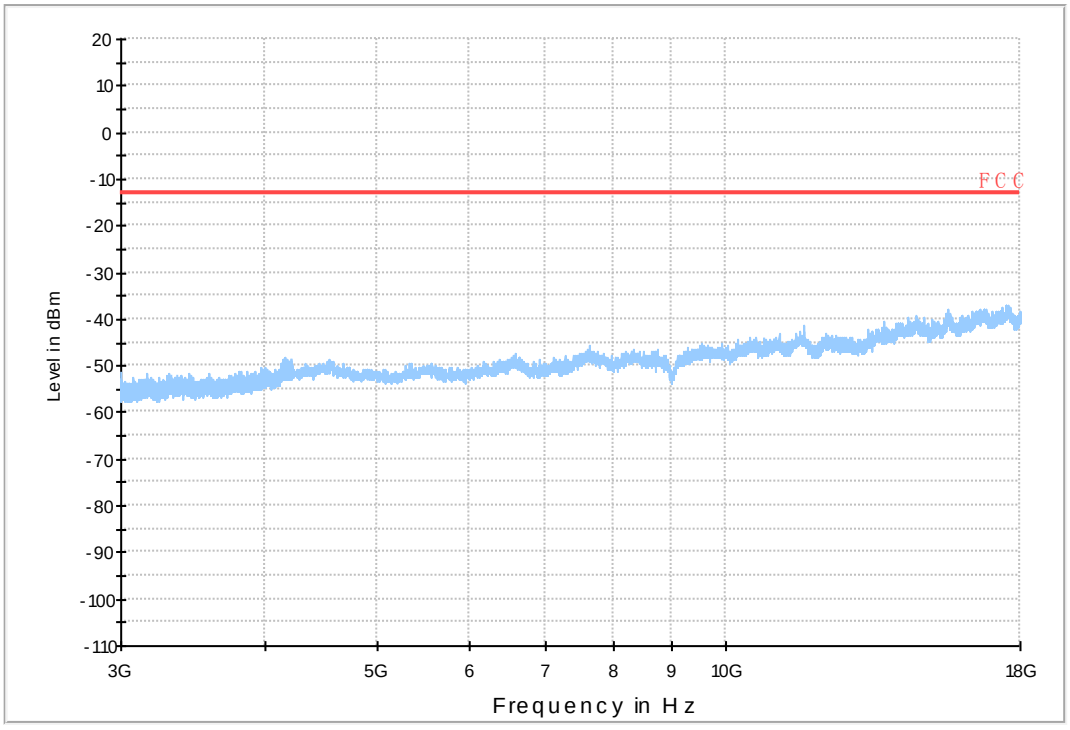
Copy of FCC PART22 LTE Band 5_L



Copy of FCC PART22 LTE Band 5_H



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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
BAND5	LTE/TM1	1.4	LCH	TN	VL	-5.85	-0.00709	PASS
					VN	12.85	0.01558	PASS
					VH	-4.38	-0.00531	PASS
			MCH	TN	VL	-18.21	-0.02177	PASS
					VN	-1.1	-0.00132	PASS
					VH	5.79	0.00692	PASS
			HCH	TN	VL	15.54	0.01832	PASS
					VN	2.9	0.00342	PASS
					VH	14.12	0.01665	PASS
		3	LCH	TN	VL	36.06	0.04368	PASS
					VN	14.26	0.01727	PASS
					VH	7.65	0.00927	PASS
			MCH	TN	VL	-4.69	-0.00561	PASS
					VN	-5.69	-0.0068	PASS
					VH	-3.29	-0.00393	PASS
			HCH	TN	VL	7	0.00826	PASS
					VN	2.68	0.00316	PASS
					VH	2.06	0.00243	PASS
		5	LCH	TN	VL	-1.63	-0.00197	PASS
					VN	-6.78	-0.0082	PASS
					VH	-1.66	-0.00201	PASS
			MCH	TN	VL	2.35	0.00281	PASS
					VN	1.39	0.00166	PASS
					VH	-0.79	-0.00094	PASS
			HCH	TN	VL	-0.24	-0.00028	PASS
					VN	-4.11	-0.00486	PASS
					VH	-1.17	-0.00138	PASS
		10	LCH	TN	VL	8.18	0.00987	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	0.41	0.00049	PASS
					VH	-29.07	-0.03507	PASS
			MCH	TN	VL	8.07	0.00965	PASS
					VN	-14.22	-0.017	PASS
					VH	5.69	0.0068	PASS
			HCH	TN	VL	-0.01	-0.00001	PASS
					VN	-1.7	-0.00201	PASS
					VH	-1.13	-0.00134	PASS
	LTE/TM2	1.4	LCH	TN	VL	-0.59	-0.00072	PASS
					VN	-9.73	-0.0118	PASS
					VH	-5.55	-0.00673	PASS
			MCH	TN	VL	-7.84	-0.00937	PASS
					VN	4.88	0.00583	PASS
					VH	-9.66	-0.01155	PASS
			HCH	TN	VL	-10.31	-0.01215	PASS
					VN	-12.95	-0.01527	PASS
					VH	1	0.00118	PASS
		3	LCH	TN	VL	47.84	0.05795	PASS
					VN	0.24	0.00029	PASS
					VH	124.18	0.15043	PASS
			MCH	TN	VL	0.87	0.00104	PASS
					VN	2.68	0.0032	PASS
					VH	1.47	0.00176	PASS
			HCH	TN	VL	-1.33	-0.00157	PASS
					VN	-0.69	-0.00081	PASS
					VH	-1.9	-0.00224	PASS
		5	LCH	TN	VL	-2.39	-0.00289	PASS
					VN	3.28	0.00397	PASS
					VH	3.18	0.00385	PASS
			MCH	TN	VL	-2.73	-0.00326	PASS
					VN	-1.72	-0.00206	PASS
					VH	2.75	0.00329	PASS
			HCH	TN	VL	-3.08	-0.00364	PASS
					VN	-0.74	-0.00087	PASS
					VH	-1.63	-0.00193	PASS
		10	LCH	TN	VL	0.97	0.00117	PASS
					VN	0.56	0.00068	PASS
					VH	-28.88	-0.03484	PASS
			MCH	TN	VL	-1.2	-0.00143	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	-2.17	-0.00259	PASS
					VH	-5.98	-0.00715	PASS
			HCH	TN	VL	-0.5	-0.00059	PASS
					VN	1.59	0.00188	PASS
					VH	5.22	0.00618	PASS

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8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	VN	-30	-8.48	-0.01028	PASS
					-20	3.26	0.00395	PASS
					-10	5.46	0.00662	PASS
					0	1.3	0.00158	PASS
					10	-6.85	-0.00831	PASS
					20	3.13	0.0038	PASS
					30	15.38	0.01865	PASS
					40	4.08	0.00495	PASS
					50	-10.26	-0.01244	PASS
			MCH	VN	-30	10.74	0.01284	PASS
					-20	-3.69	-0.00441	PASS
					-10	21.53	0.02574	PASS
					0	-16.06	-0.0192	PASS
					10	-20.7	-0.02475	PASS
					20	6.71	0.00802	PASS
					30	-6.18	-0.00739	PASS
					40	8.05	0.00962	PASS
					50	10.09	0.01206	PASS
			HCH	VN	-30	23.16	0.0273	PASS
					-20	0.13	0.00015	PASS
					-10	1.63	0.00192	PASS
					0	-1.54	-0.00182	PASS
					10	6.65	0.00784	PASS
					20	-2.89	-0.00341	PASS
					30	2.06	0.00243	PASS
					40	4.52	0.00533	PASS
					50	-16.87	-0.01989	PASS
		3	LCH	VN	-30	-4.79	-0.0058	PASS
					-20	0.43	0.00052	PASS
					-10	-10.56	-0.01279	PASS
					0	-3.82	-0.00463	PASS
					10	6.34	0.00768	PASS
					20	-4.51	-0.00546	PASS
					30	-6.02	-0.00729	PASS
					40	6.25	0.00757	PASS
					50	-7.24	-0.00877	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
			MCH	VN	-30	-1.63	-0.00195	PASS
					-20	21.9	0.02618	PASS
					-10	-13.36	-0.01597	PASS
					0	-14.88	-0.01779	PASS
					10	3.46	0.00414	PASS
					20	-17.87	-0.02136	PASS
					30	-12.76	-0.01525	PASS
					40	8.75	0.01046	PASS
					50	-7.55	-0.00903	PASS
			HCH	VN	-30	2.57	0.00303	PASS
					-20	-6.49	-0.00766	PASS
					-10	0.82	0.00097	PASS
					0	-4.48	-0.00529	PASS
					10	-0.66	-0.00078	PASS
					20	4.99	0.00589	PASS
					30	6.84	0.00807	PASS
					40	-5.08	-0.00599	PASS
					50	8.65	0.01021	PASS
		5	LCH	VN	-30	4.23	0.00512	PASS
					-20	18	0.02178	PASS
					-10	18.35	0.0222	PASS
					0	5.22	0.00632	PASS
					10	8.14	0.00985	PASS
					20	-3.79	-0.00459	PASS
					30	5.61	0.00679	PASS
					40	13.78	0.01667	PASS
					50	7.8	0.00944	PASS
			MCH	VN	-30	4.19	0.00501	PASS
					-20	22.34	0.02671	PASS
					-10	-0.82	-0.00098	PASS
					0	13.99	0.01672	PASS
					10	-11.2	-0.01339	PASS
					20	13.33	0.01594	PASS
					30	1.59	0.0019	PASS
					40	7.01	0.00838	PASS
					50	15.48	0.01851	PASS
			HCH	VN	-30	-7.27	-0.00859	PASS
					-20	-2.32	-0.00274	PASS
					-10	2.65	0.00313	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
					0	-0.7	-0.00083	PASS
					10	-1.96	-0.00232	PASS
					20	-1.12	-0.00132	PASS
					30	8.93	0.01055	PASS
					40	4.05	0.00478	PASS
					50	-13.73	-0.01622	PASS
		10	LCH	VN	-30	5.71	0.00689	PASS
					-20	-9.97	-0.01203	PASS
					-10	-3.71	-0.00448	PASS
					0	2.33	0.00281	PASS
					10	-5.82	-0.00702	PASS
					20	3.02	0.00364	PASS
					30	9.6	0.01158	PASS
					40	3.33	0.00402	PASS
					50	5.18	0.00625	PASS
			MCH	VN	-30	5.69	0.0068	PASS
					-20	15.75	0.01883	PASS
					-10	5.05	0.00604	PASS
					0	3.65	0.00436	PASS
					10	3.76	0.00449	PASS
					20	-4.79	-0.00573	PASS
					30	-3.99	-0.00477	PASS
					40	-12.79	-0.01529	PASS
					50	-6.28	-0.00751	PASS
			HCH	VN	-30	20.86	0.02472	PASS
					-20	-1.02	-0.00121	PASS
					-10	-2.35	-0.00278	PASS
					0	-4.86	-0.00576	PASS
					10	2.06	0.00244	PASS
					20	-3.58	-0.00424	PASS
					30	5.22	0.00618	PASS
					40	1.09	0.00129	PASS
					50	5.06	0.006	PASS
	LTE/TM2	1.4	LCH	VN	-30	-13.68	-0.01659	PASS
					-20	-11.26	-0.01365	PASS
					-10	-3.36	-0.00407	PASS
					0	-3.86	-0.00468	PASS
					10	-12.26	-0.01487	PASS
					20	-8.37	-0.01015	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
					30	13.38	0.01622	PASS
					40	11.62	0.01409	PASS
					50	1.49	0.00181	PASS
			MCH	VN	-30	-2.72	-0.00325	PASS
					-20	-4.69	-0.00561	PASS
					-10	-7.22	-0.00863	PASS
					0	3.12	0.00373	PASS
					10	-13.2	-0.01578	PASS
					20	-2.22	-0.00265	PASS
					30	0.14	0.00017	PASS
					40	8.65	0.01034	PASS
					50	-10.21	-0.01221	PASS
			HCH	VN	-30	3.06	0.00361	PASS
					-20	5.01	0.00591	PASS
					-10	-3.71	-0.00437	PASS
					0	12.32	0.01452	PASS
					10	0.27	0.00032	PASS
					20	-1.23	-0.00145	PASS
					30	9.13	0.01076	PASS
					40	13.06	0.0154	PASS
					50	-13.72	-0.01617	PASS
		3	LCH	VN	-30	-2.36	-0.00286	PASS
					-20	-4.05	-0.00491	PASS
					-10	1.62	0.00196	PASS
					0	-2.27	-0.00275	PASS
					10	2.16	0.00262	PASS
					20	5.02	0.00608	PASS
					30	4.43	0.00537	PASS
					40	5.19	0.00629	PASS
					50	13.66	0.01655	PASS
			MCH	VN	-30	-4.59	-0.00549	PASS
					-20	3.76	0.00449	PASS
					-10	7.58	0.00906	PASS
					0	0.01	0.00001	PASS
					10	0.37	0.00044	PASS
					20	10.24	0.01224	PASS
					30	2.16	0.00258	PASS
					40	-6.38	-0.00763	PASS
					50	1.67	0.002	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
			HCH	VN	-30	10.51	0.0124	PASS
					-20	-3.75	-0.00442	PASS
					-10	-10	-0.0118	PASS
					0	7.85	0.00926	PASS
					10	0.41	0.00048	PASS
					20	4.12	0.00486	PASS
					30	11.04	0.01303	PASS
					40	-7.41	-0.00874	PASS
					50	-8.23	-0.00971	PASS
		5	LCH	VN	-30	21.93	0.02653	PASS
					-20	-1.83	-0.00221	PASS
					-10	6.34	0.00767	PASS
					0	18.3	0.02214	PASS
					10	10.17	0.0123	PASS
					20	2.02	0.00244	PASS
					30	10.84	0.01312	PASS
					40	20.41	0.02469	PASS
					50	7.14	0.00864	PASS
			MCH	VN	-30	-0.34	-0.00041	PASS
					-20	13.07	0.01562	PASS
					-10	1.83	0.00219	PASS
					0	3.06	0.00366	PASS
					10	10.16	0.01215	PASS
					20	13.03	0.01558	PASS
					30	10.87	0.01299	PASS
					40	12.49	0.01493	PASS
					50	18.21	0.02177	PASS
			HCH	VN	-30	23.92	0.02826	PASS
					-20	-2.49	-0.00294	PASS
					-10	-14.28	-0.01687	PASS
					0	-2.43	-0.00287	PASS
					10	-3.13	-0.0037	PASS
					20	-0.74	-0.00087	PASS
					30	-1	-0.00118	PASS
					40	-0.09	-0.00011	PASS
					50	-14.85	-0.01754	PASS
		10	LCH	VN	-30	-8.23	-0.00993	PASS
					-20	-4.52	-0.00545	PASS
					-10	-5.54	-0.00668	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
					0	-5.11	-0.00616	PASS
					10	-4.18	-0.00504	PASS
					20	-9.94	-0.01199	PASS
					30	-4.73	-0.00571	PASS
					40	3.12	0.00376	PASS
					50	-13.09	-0.01579	PASS
			MCH	VN	-30	-0.33	-0.00039	PASS
					-20	15.12	0.01808	PASS
					-10	-2.73	-0.00326	PASS
					0	1.57	0.00188	PASS
					10	1.82	0.00218	PASS
					20	-3.42	-0.00409	PASS
					30	0.01	0.00001	PASS
					40	5.71	0.00683	PASS
					50	7.2	0.00861	PASS
			HCH	VN	-30	-4.08	-0.00483	PASS
					-20	0.34	0.0004	PASS
					-10	0.99	0.00117	PASS
					0	-1.86	-0.0022	PASS
					10	4.01	0.00475	PASS
					20	6.32	0.00749	PASS
					30	3.15	0.00373	PASS
					40	6.19	0.00733	PASS
					50	-0.99	-0.00117	PASS

END

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