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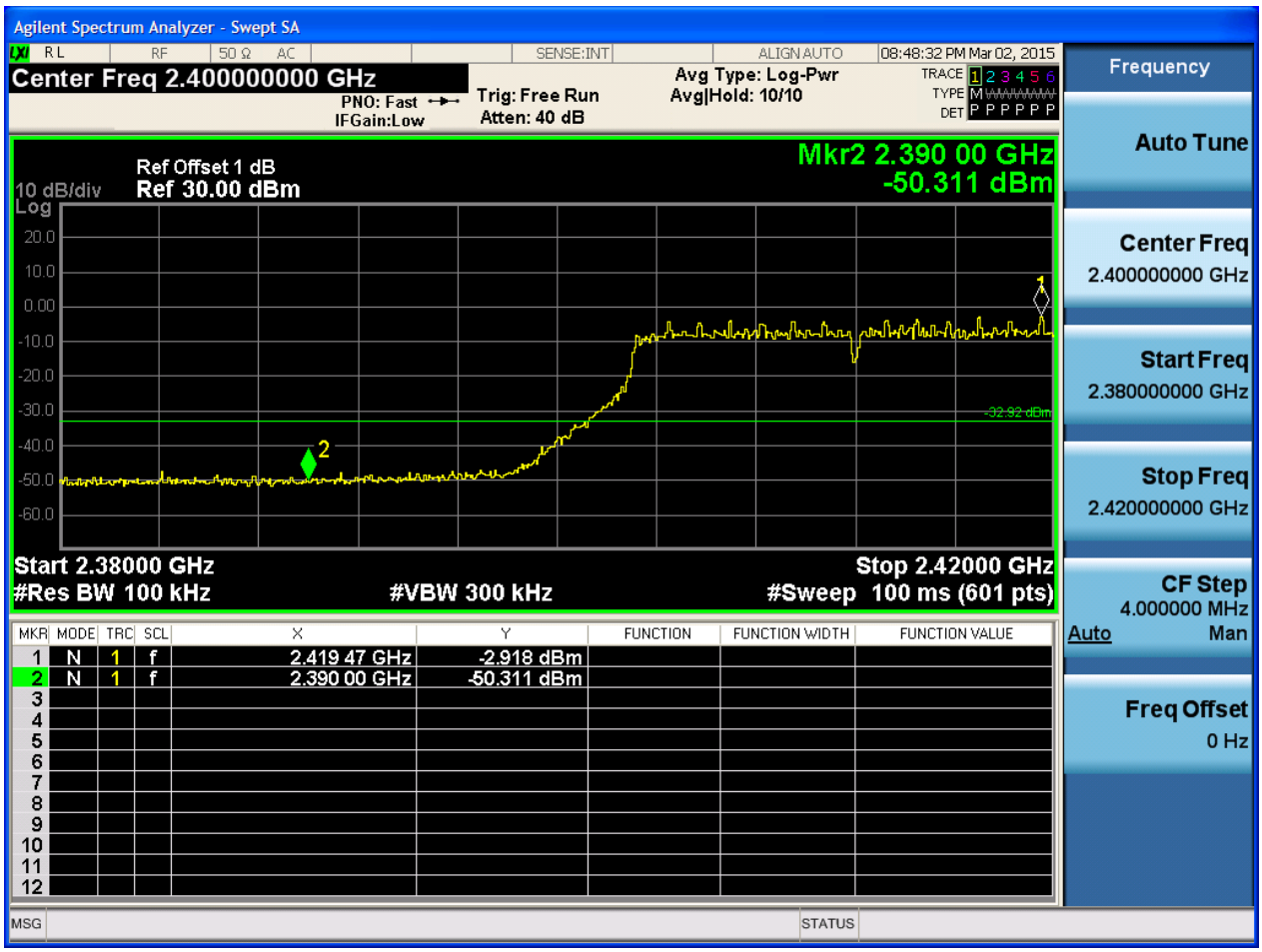

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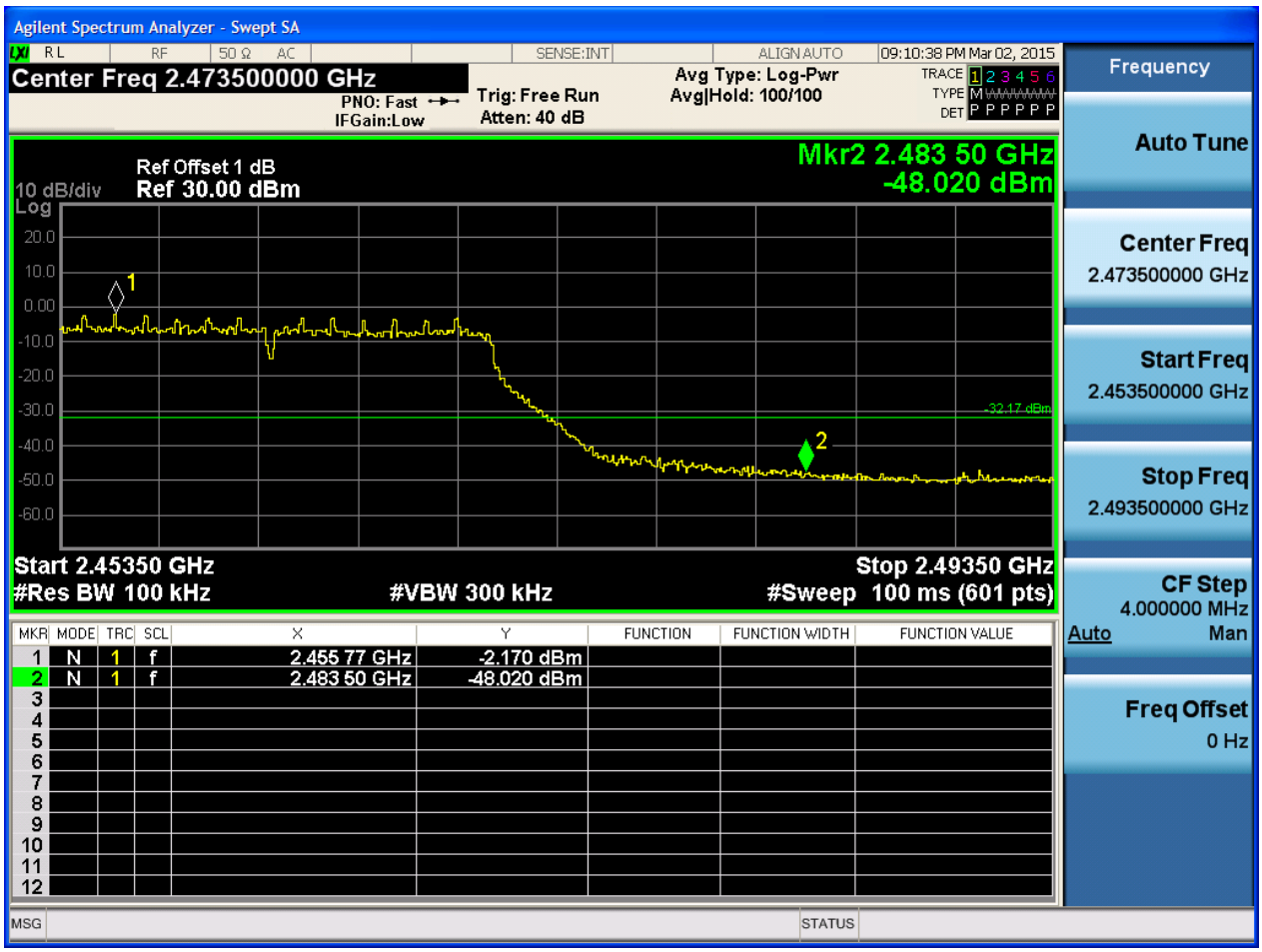

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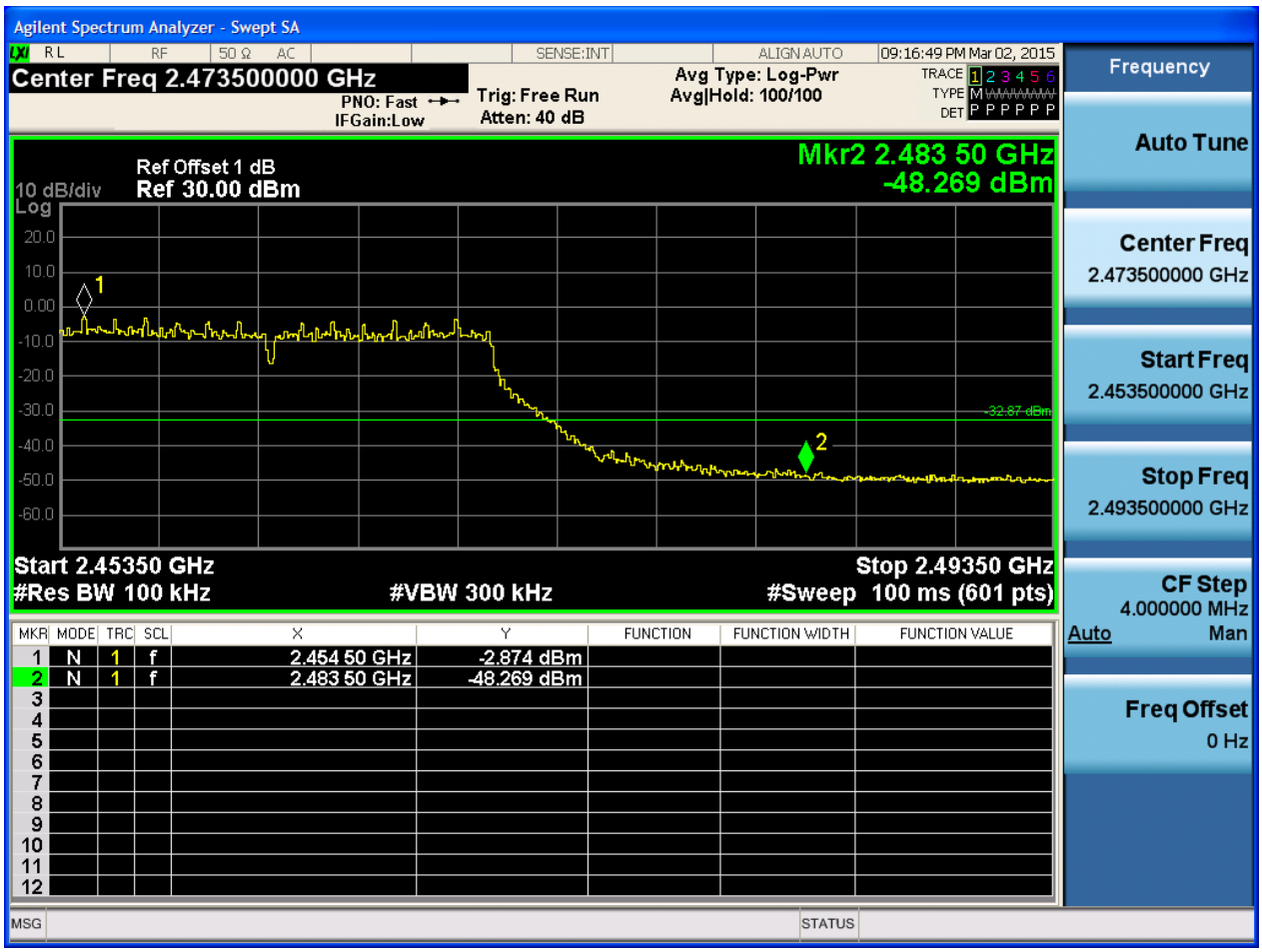

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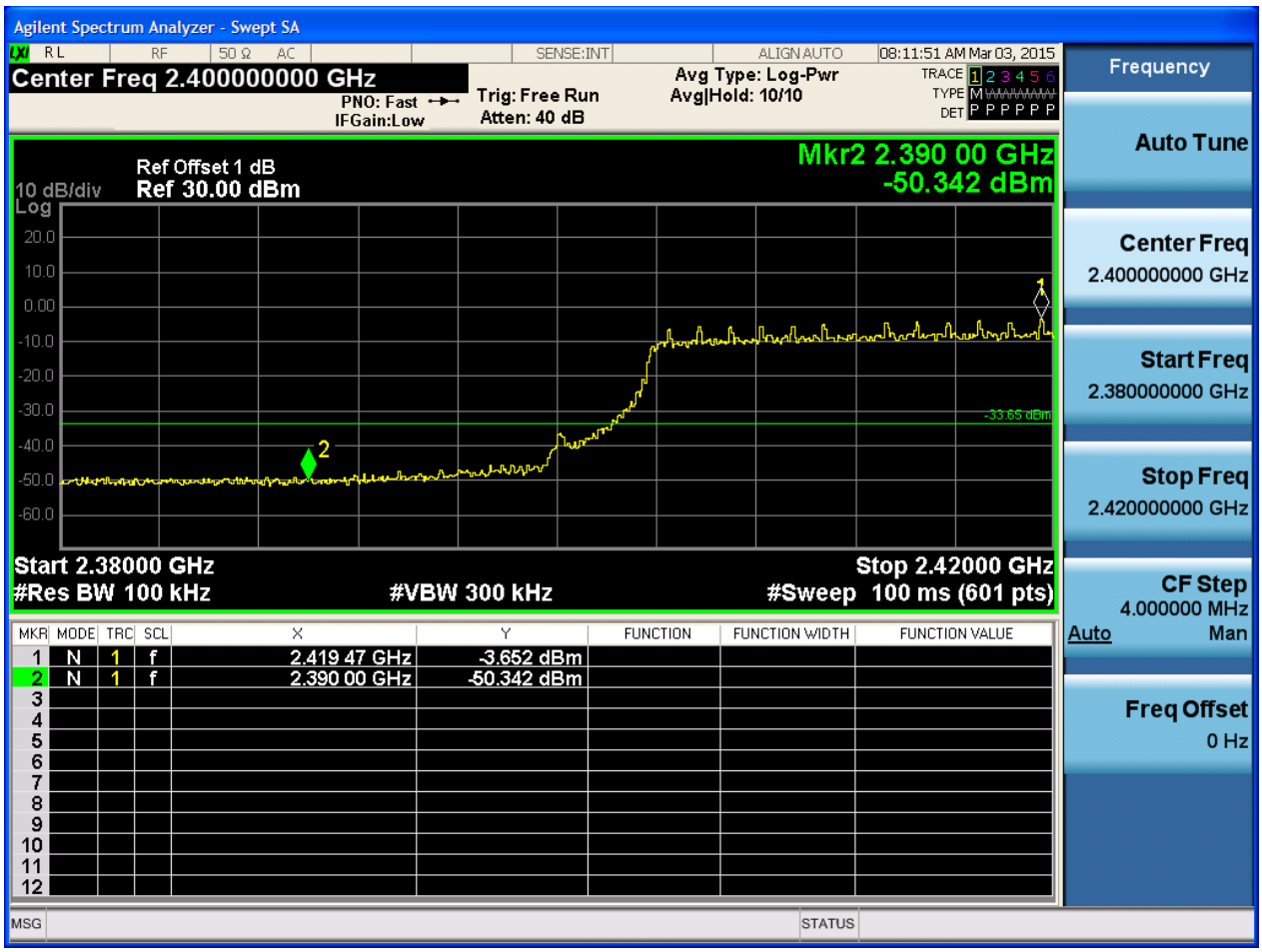

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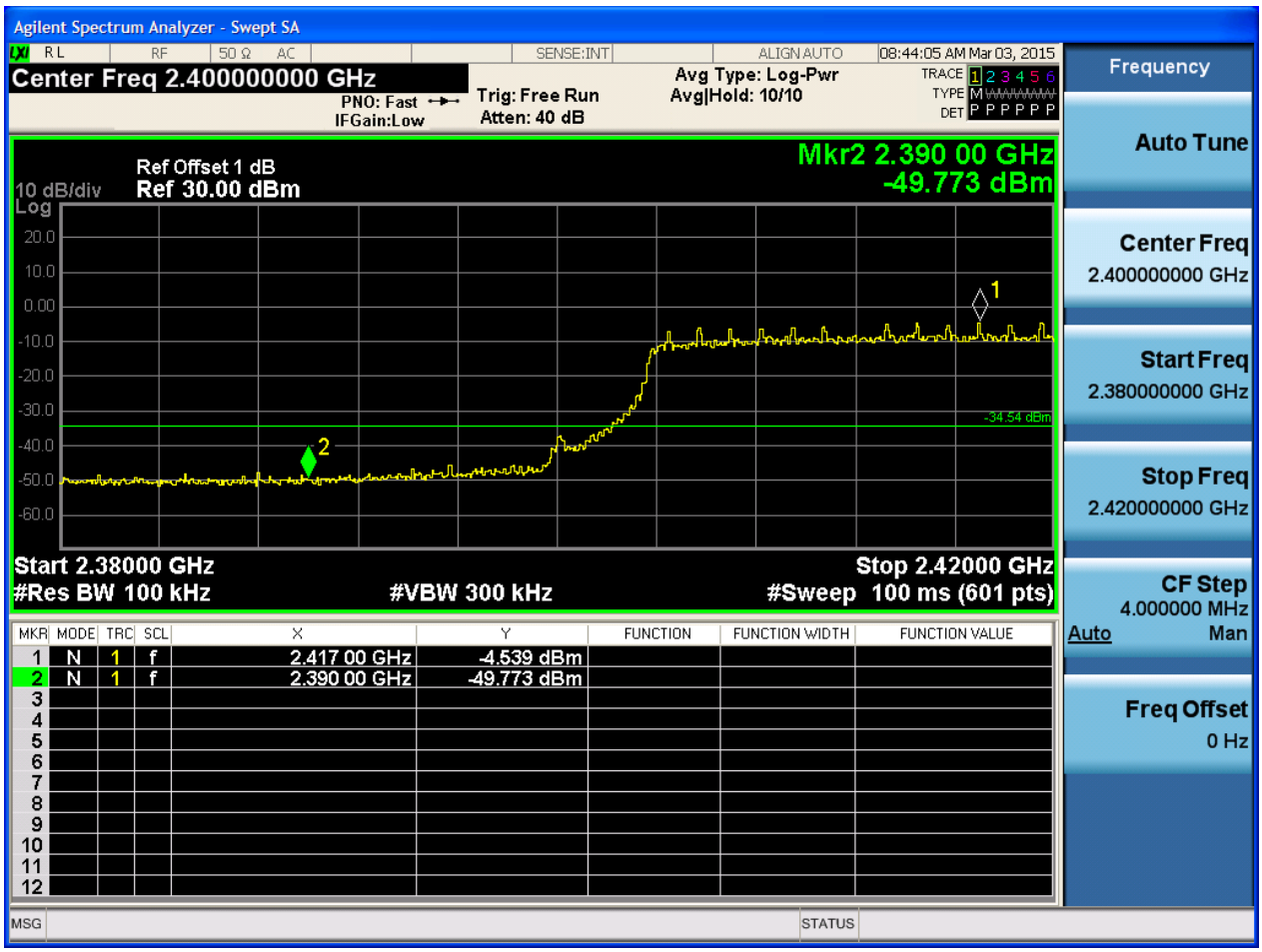

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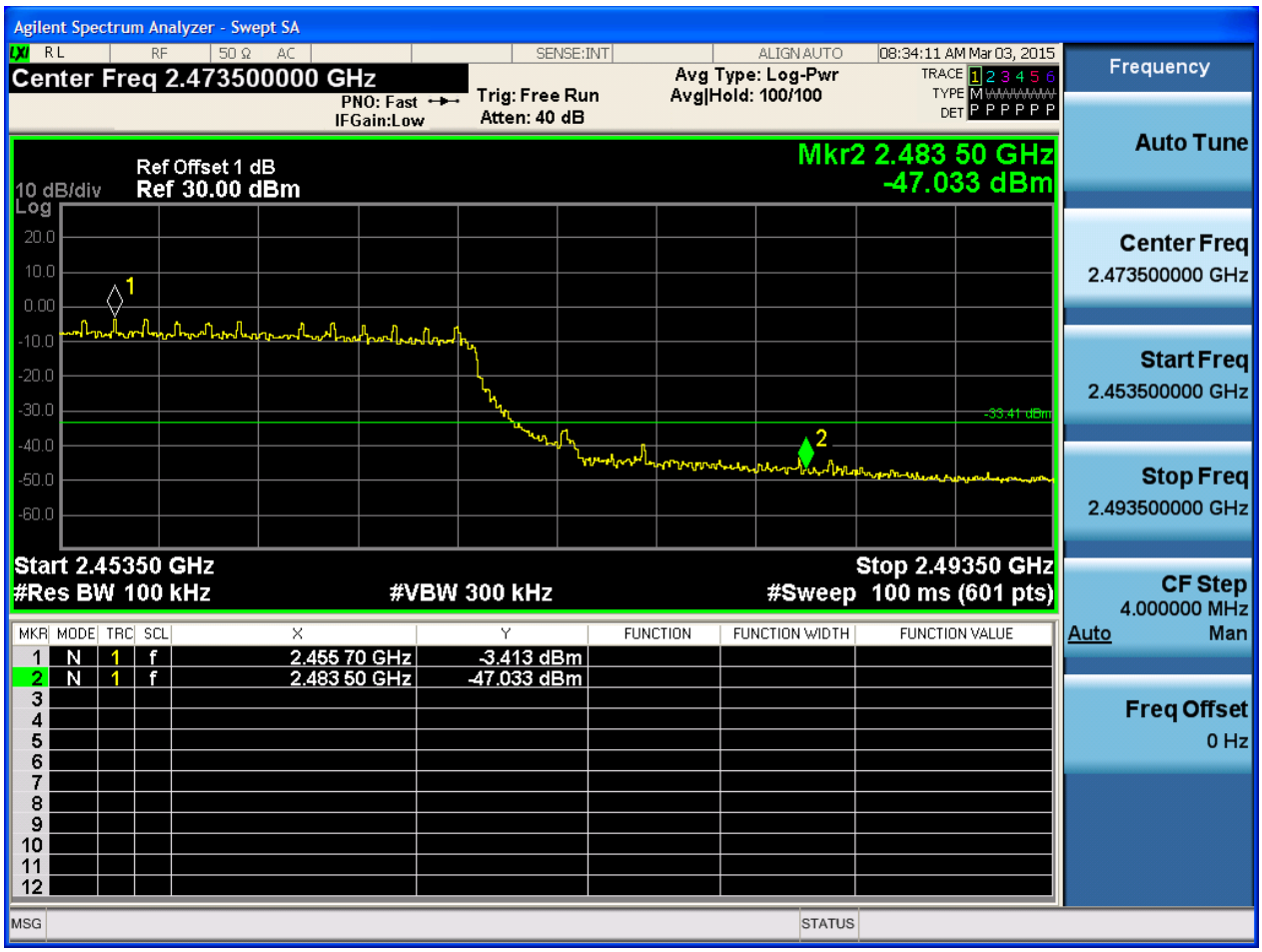

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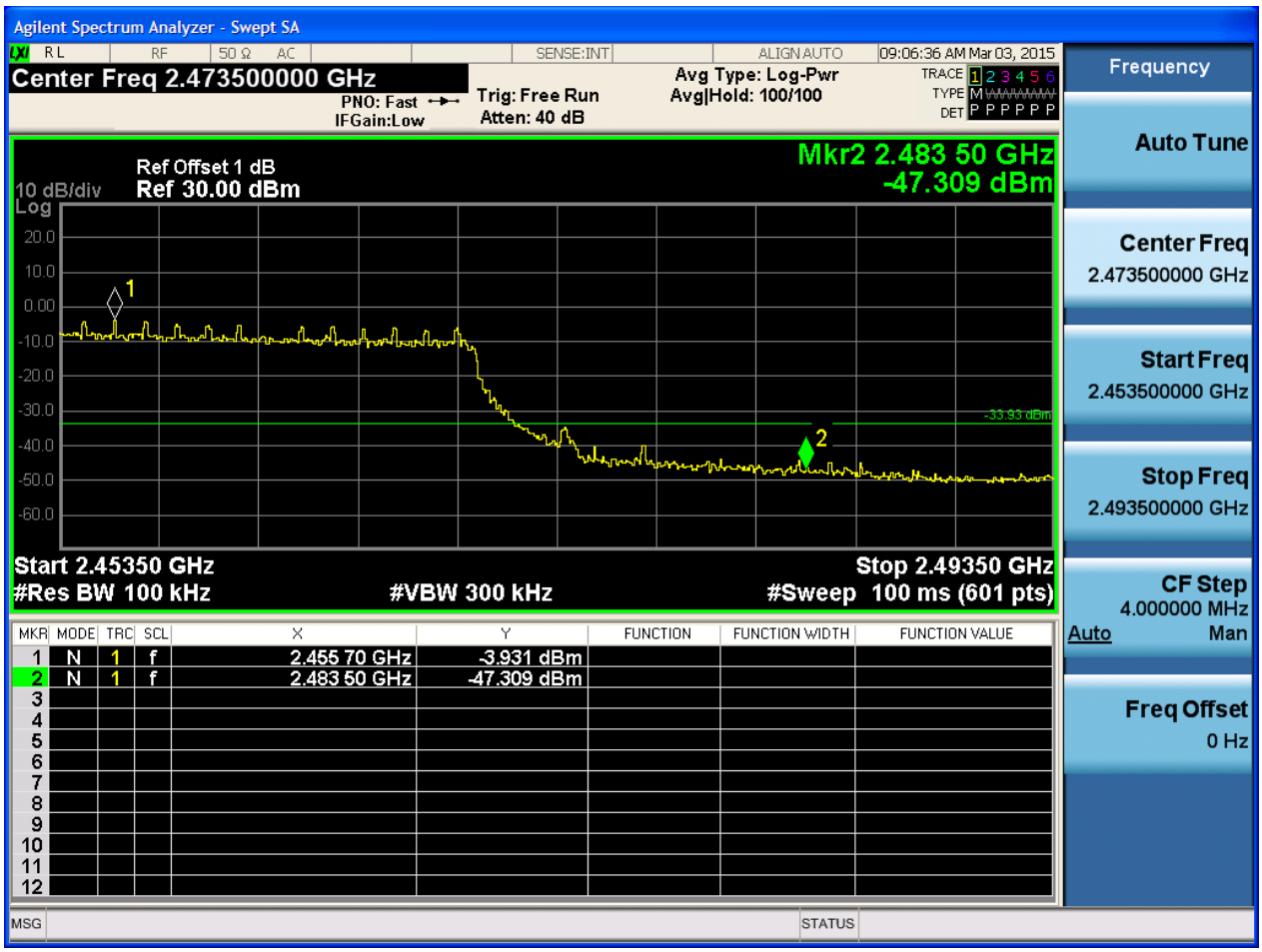

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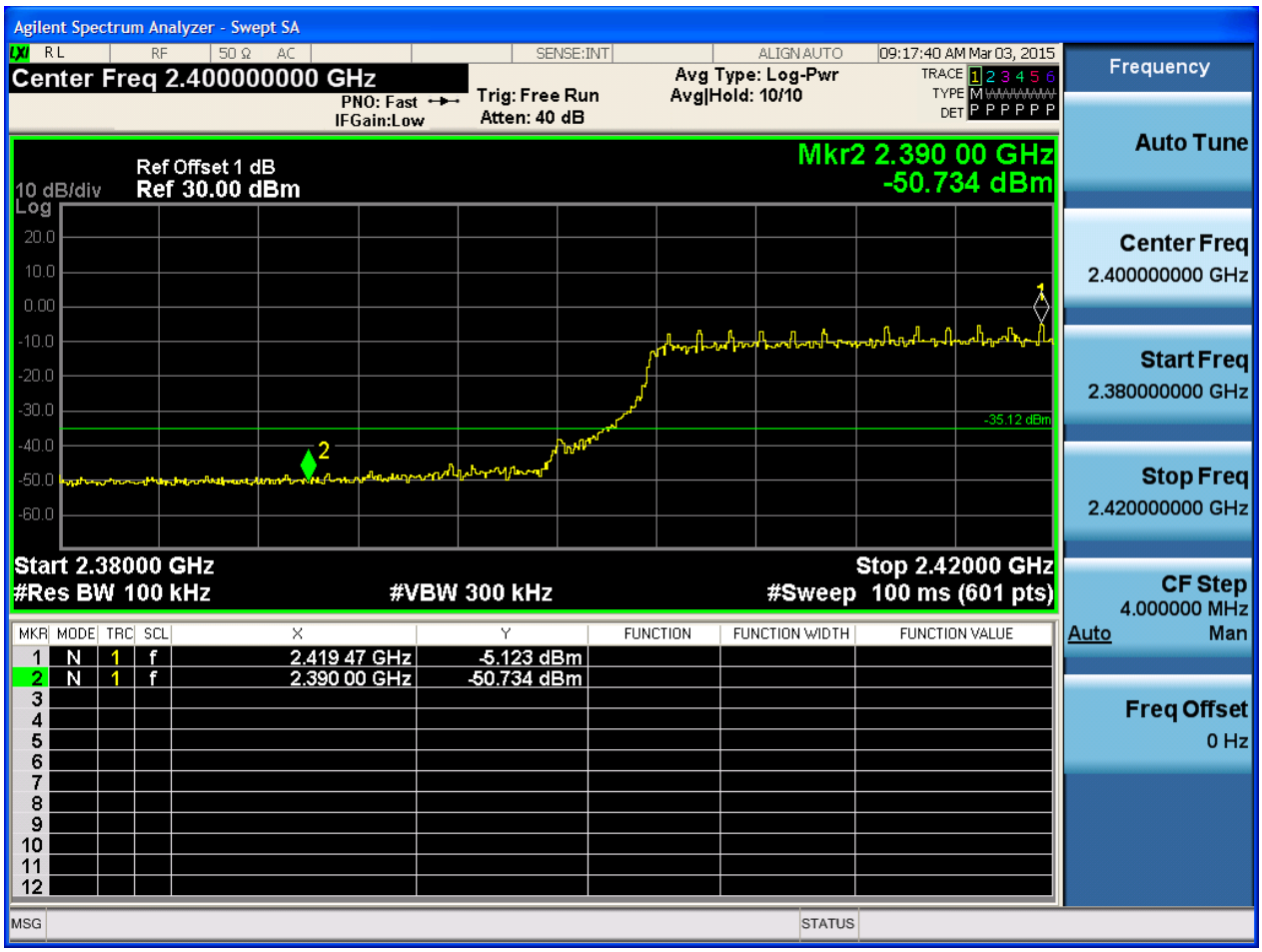

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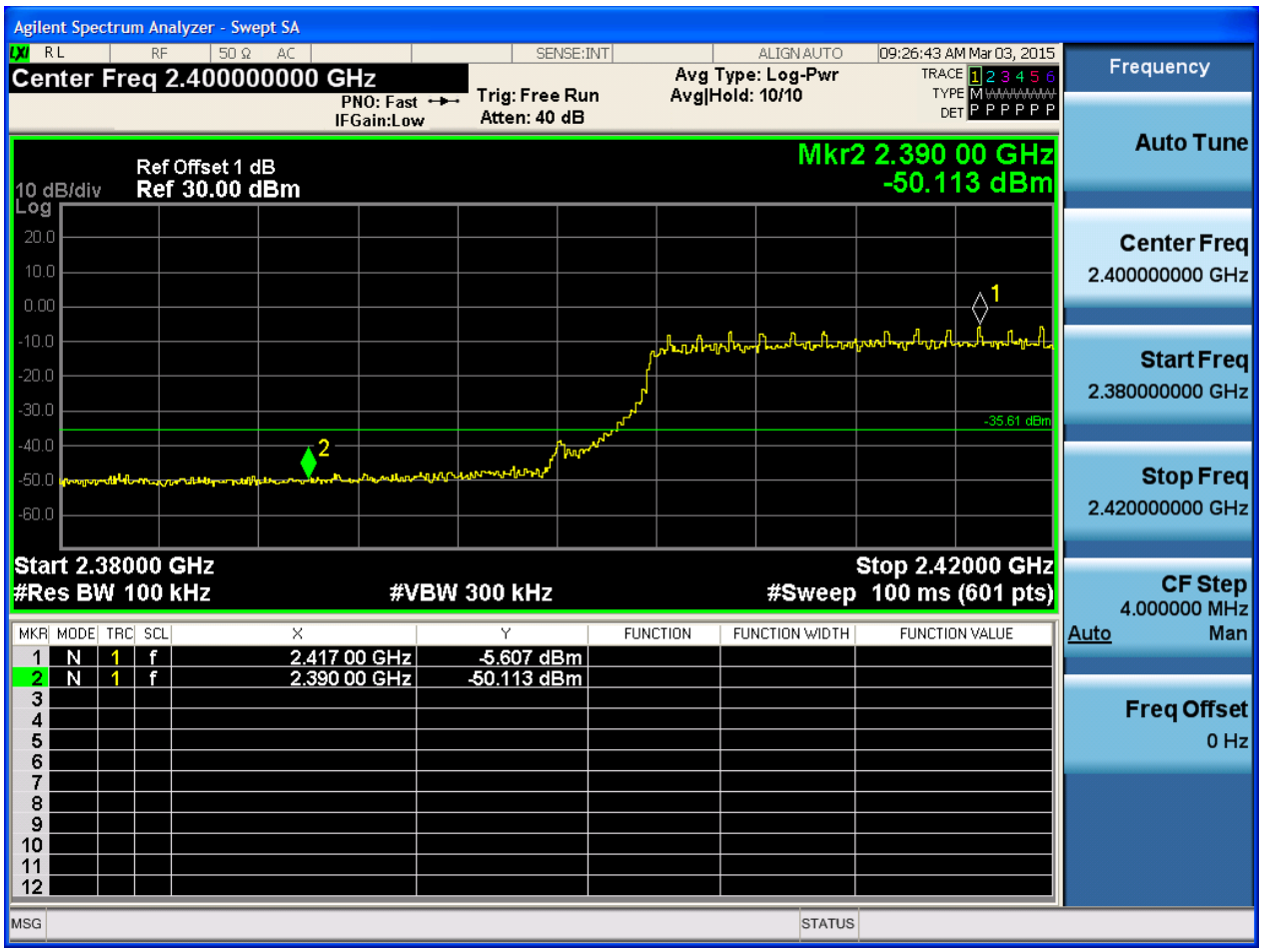

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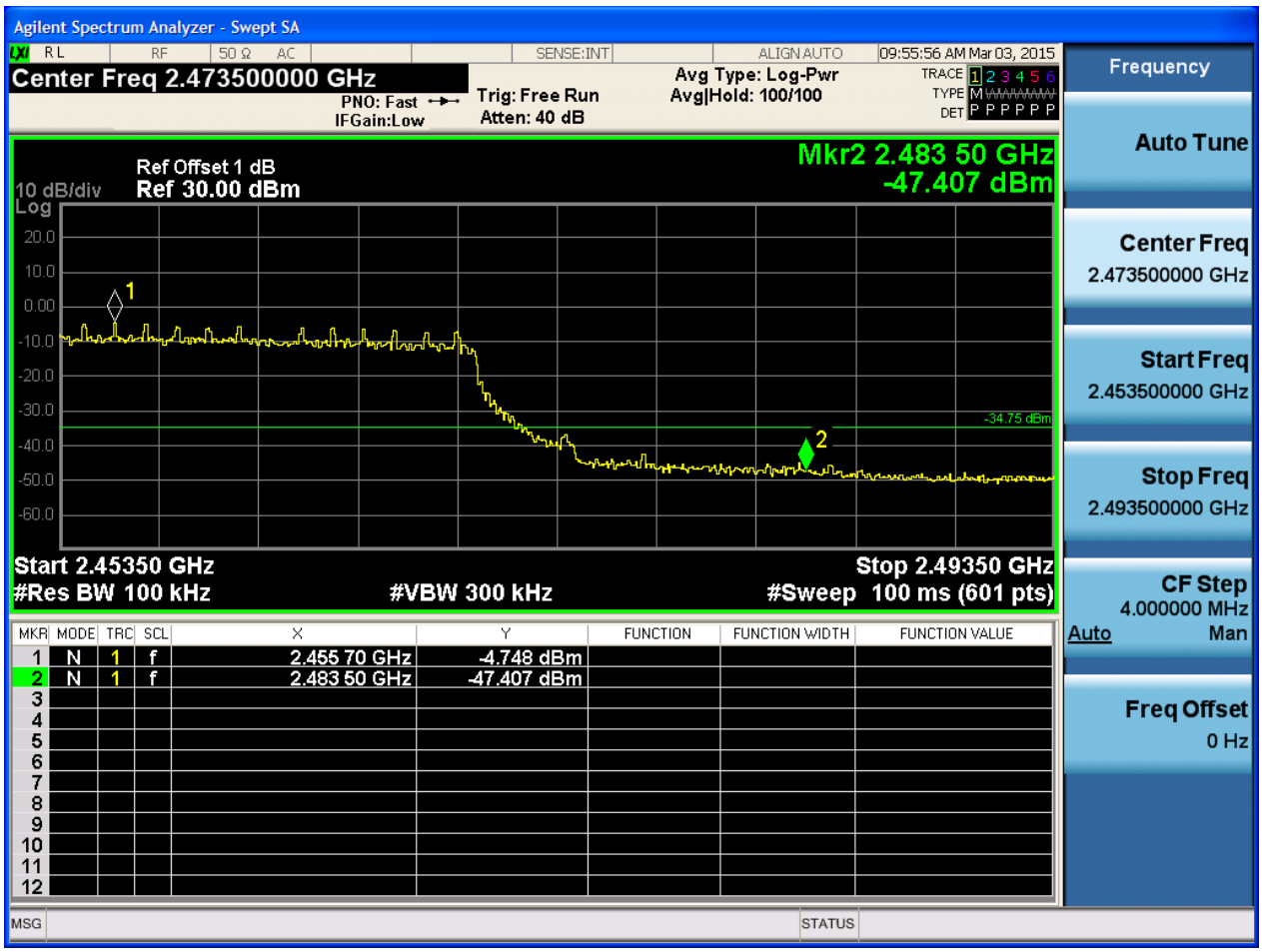

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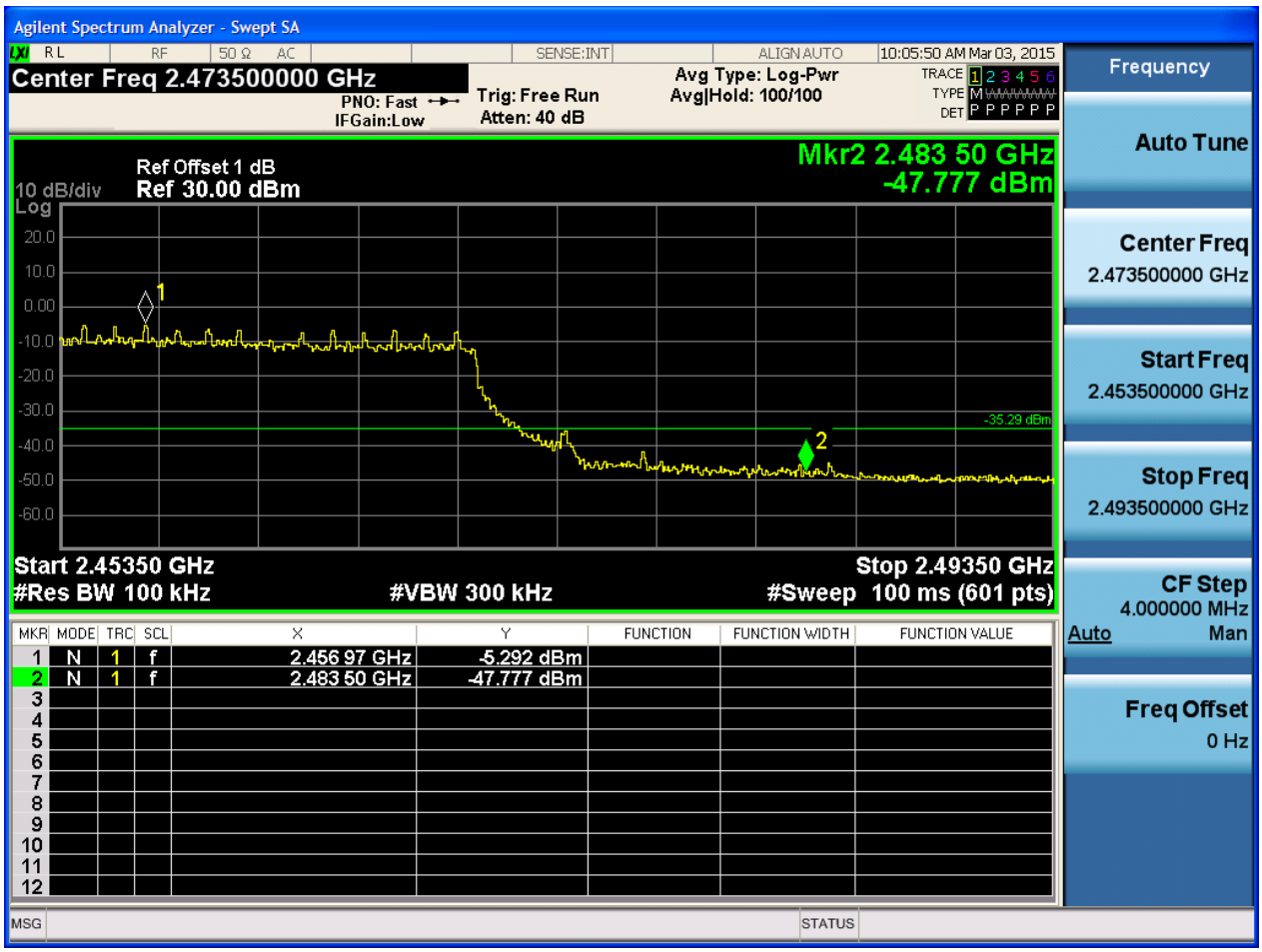

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Appendix G: Unwanted Emissions into Non-Restricted Frequency Bands

In this Appendix, the "Pref", which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the "Puw" referrers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated,a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] = 10 x lg(100 [kHz]/narrower RBW [kHz]). As to this Appendix, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the "< Limit" denotes that "The Puw [dBm] is less than Pref[dBm]-30[dBm],see test plots for detailed".

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2412	Ant 1	5.45	<limit	pass
11B	L	2412	Ant 2	4.64	<limit	pass
11B	M	2437	Ant 1	5.78	<limit	pass
11B	M	2437	Ant 2	4.93	<limit	pass
11B	H	2462	Ant 1	5.78	<limit	pass
11B	H	2462	Ant 2	4.64	<limit	pass
11G	L	2412	Ant 1	1.14	<limit	pass
11G	L	2412	Ant 2	0.46	<limit	pass
11G	M	2437	Ant 1	1.08	<limit	pass
11G	M	2437	Ant 2	0.49	<limit	pass
11G	H	2462	Ant 1	1.31	<limit	pass
11G	H	2462	Ant 2	1.07	<limit	pass
11N20	L	2412	Ant 1	-1.11	<limit	pass
11N20	L	2412	Ant 2	-1.46	<limit	pass
11N20	M	2437	Ant 1	-0.61	<limit	pass
11N20	M	2437	Ant 2	-1.23	<limit	pass
11N20	H	2462	Ant 1	-0.49	<limit	pass

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Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2462	Ant 2	-0.71	<limit	pass
11N20m	L	2412	Ant 1	-2.18	<limit	pass
11N20m	L	2412	Ant 2	-2.93	<limit	pass
11N20m	M	2437	Ant 1	-1.96	<limit	pass
11N20m	M	2437	Ant 2	-2.67	<limit	pass
11N20m	H	2462	Ant 1	-1.88	<limit	pass
11N20m	H	2462	Ant 2	-2.35	<limit	pass
11N40	L	2422	Ant 1	-3.20	<limit	pass
11N40	L	2422	Ant 2	-4.22	<limit	pass
11N40	M	2437	Ant 1	-3.24	<limit	pass
11N40	M	2437	Ant 2	-3.52	<limit	pass
11N40	H	2452	Ant 1	-3.13	<limit	pass
11N40	H	2452	Ant 2	-3.37	<limit	pass
11N40m	L	2422	Ant 1	-4.79	<limit	pass
11N40m	L	2422	Ant 2	-5.71	<limit	pass
11N40m	M	2437	Ant 1	-4.54	<limit	pass
11N40m	M	2437	Ant 2	-5.20	<limit	pass
11N40m	H	2452	Ant 1	-4.59	<limit	pass
11N40m	H	2452	Ant 2	-4.51	<limit	pass

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Part II - Test Plots

2.1 11B_L@Ant 1

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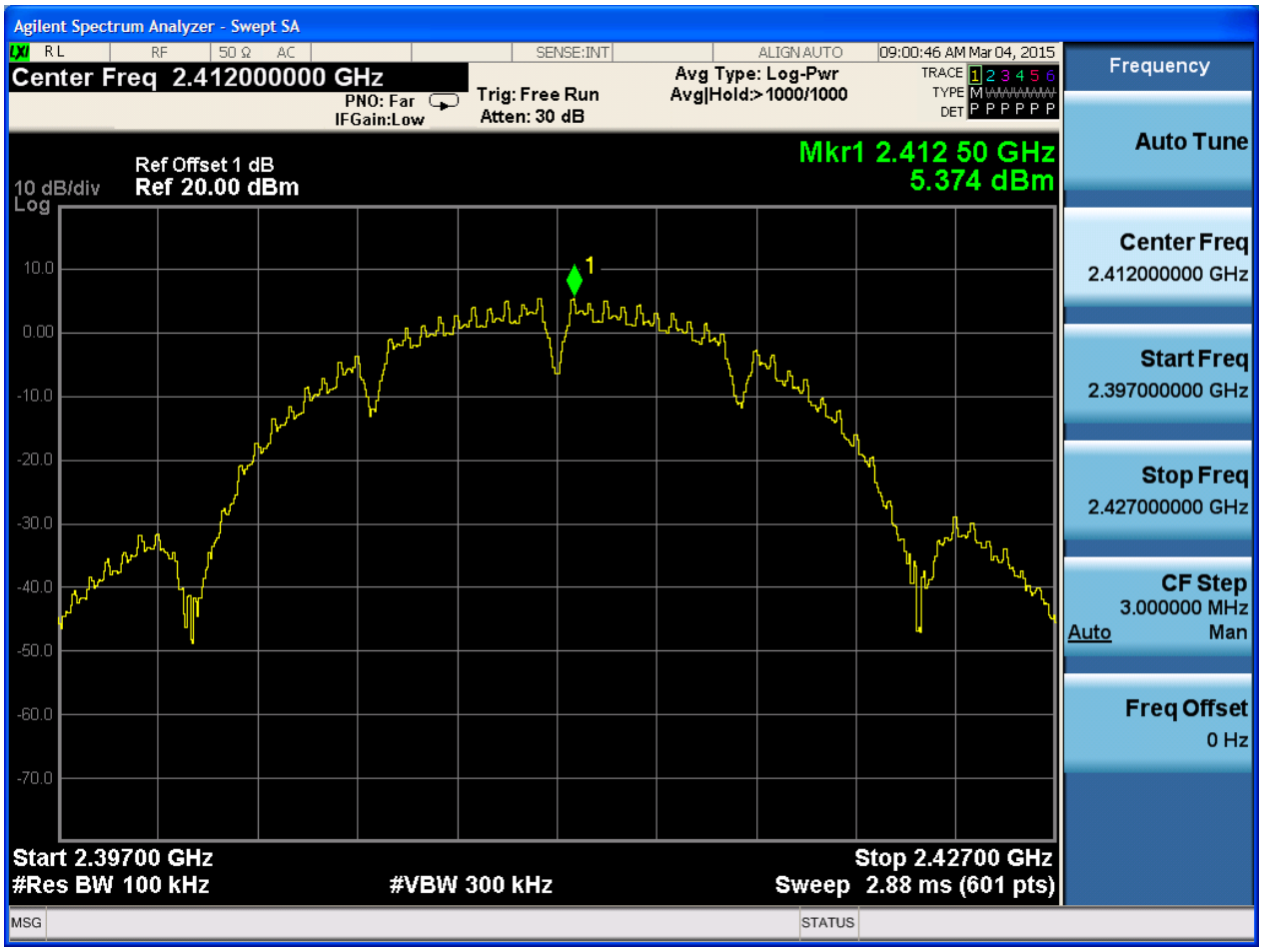

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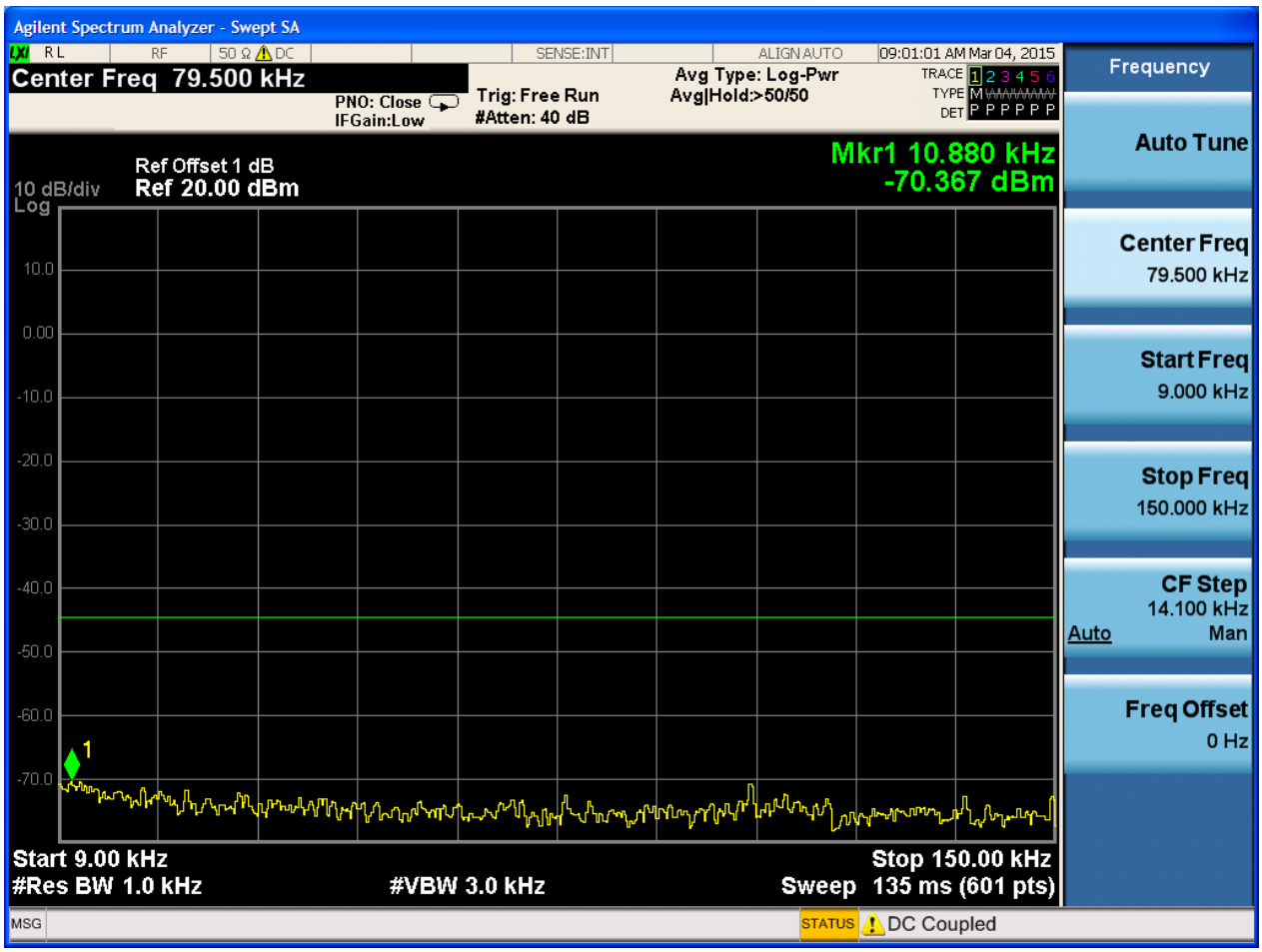

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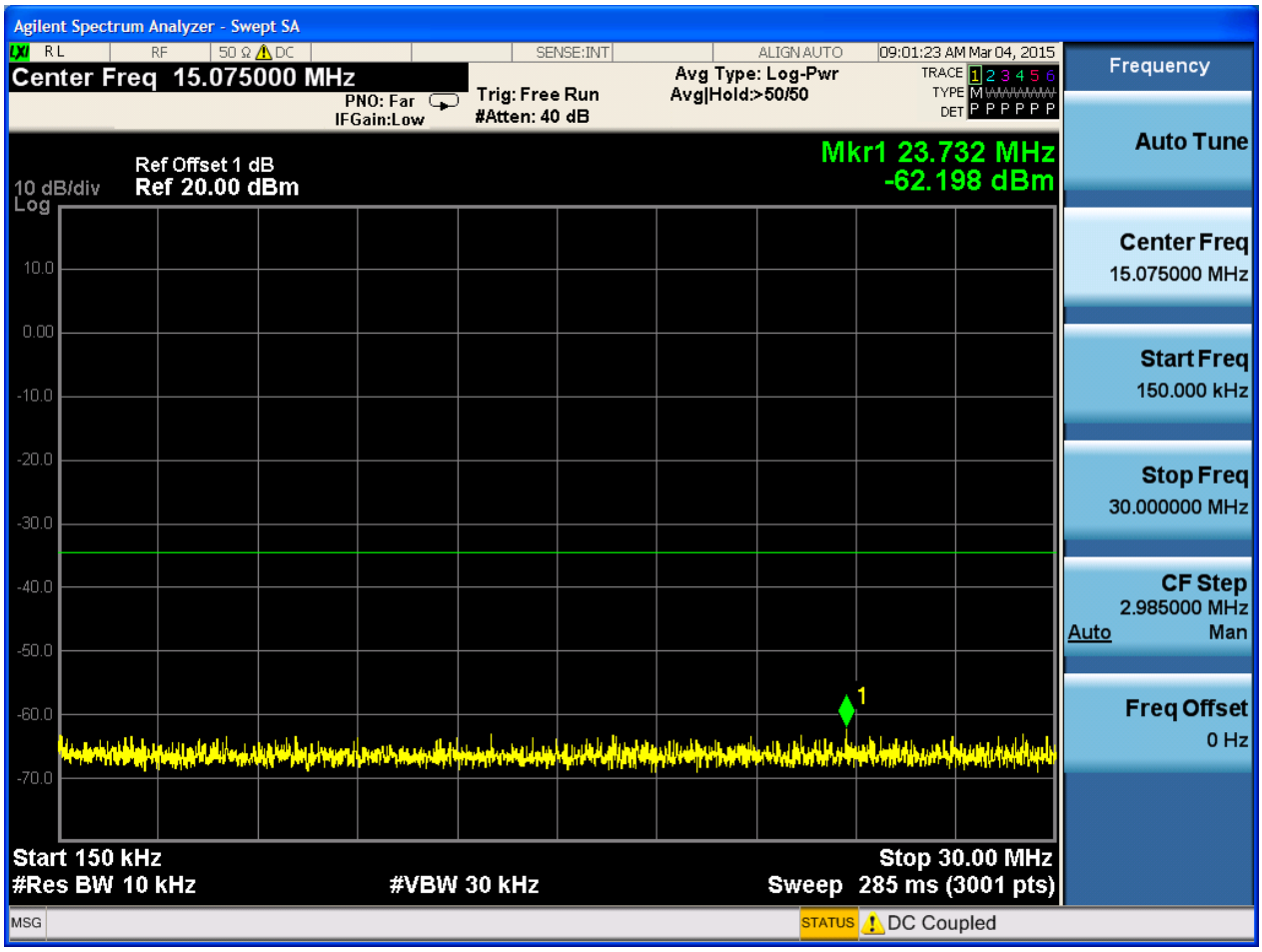

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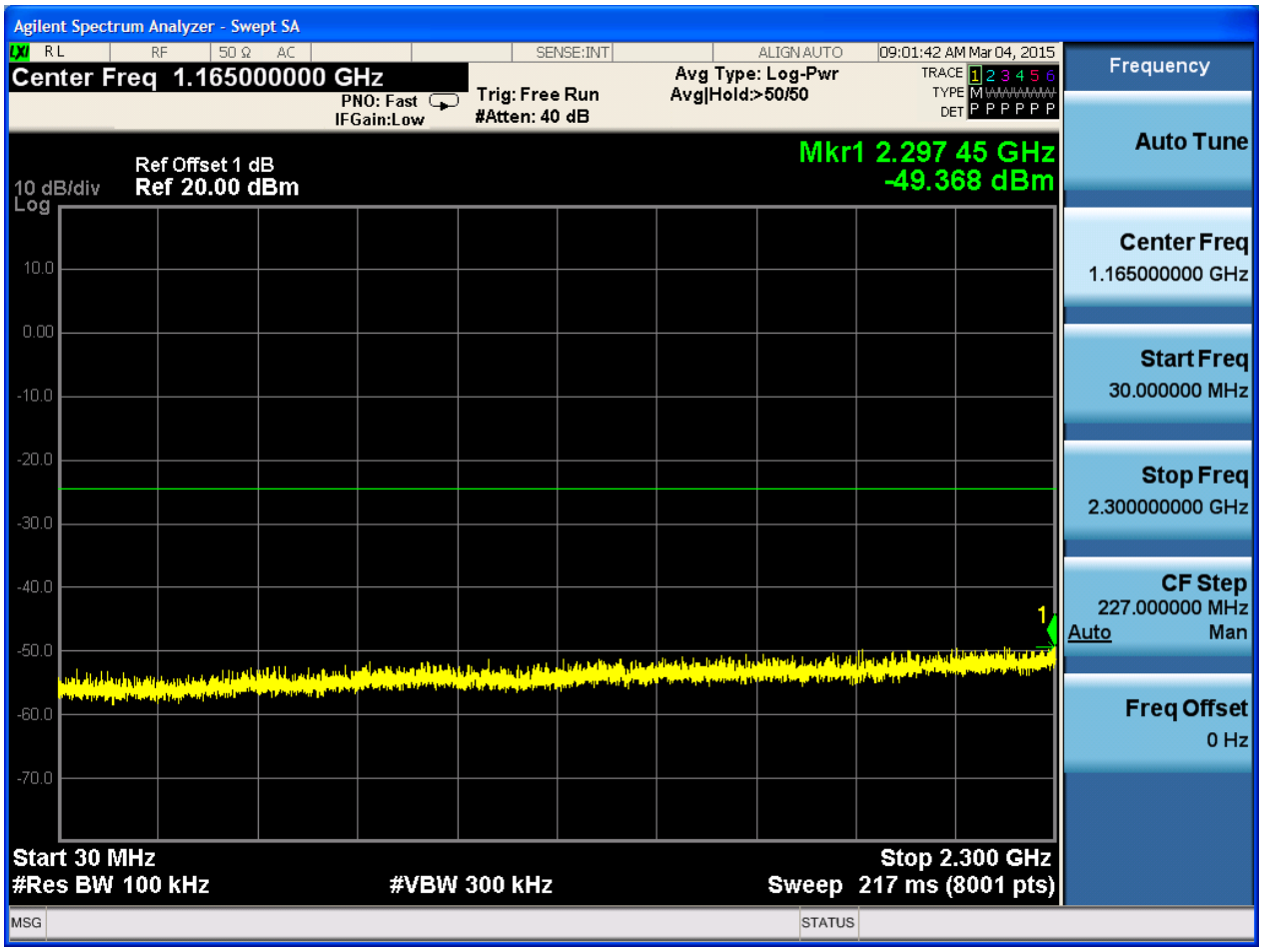

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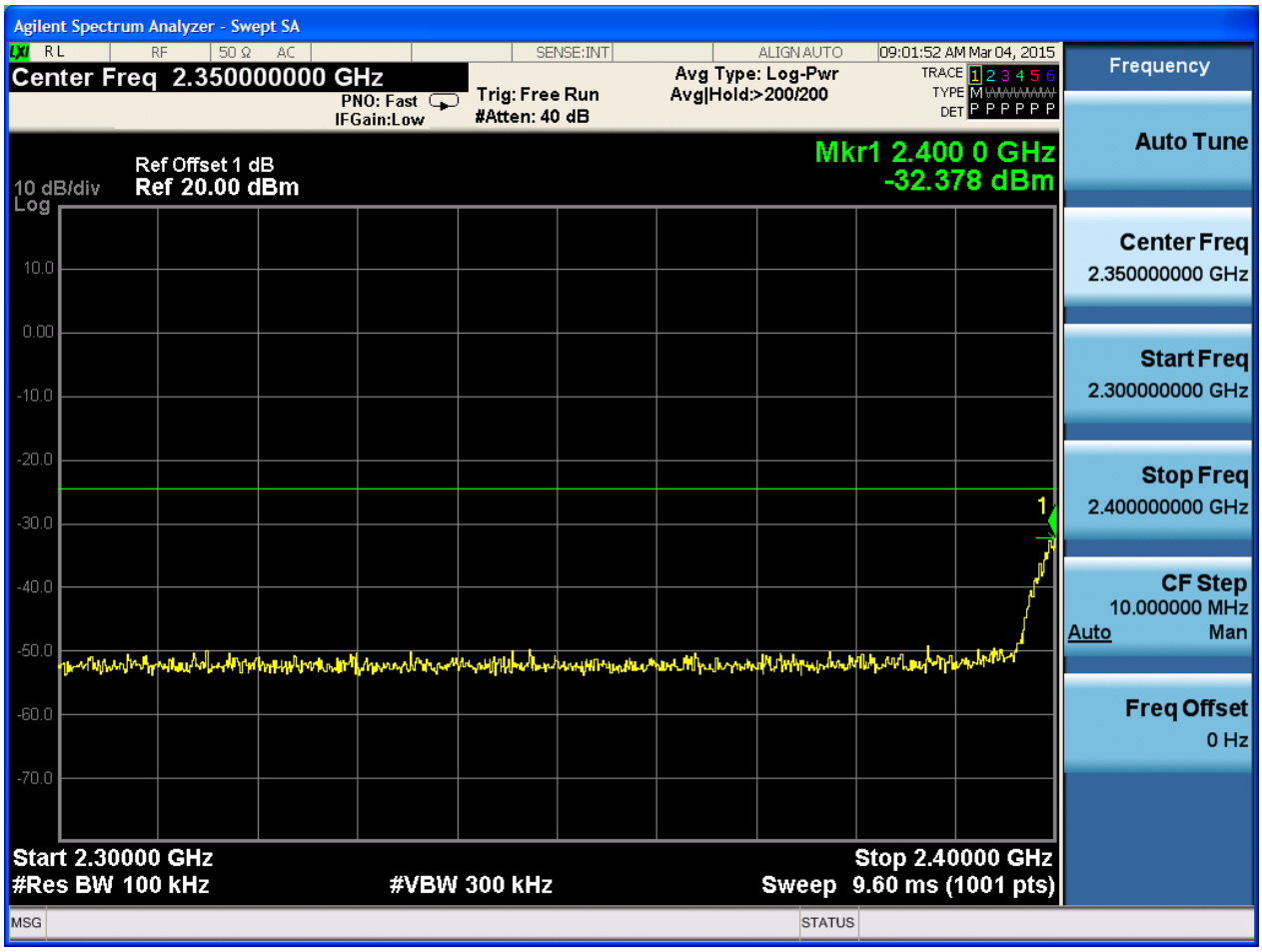

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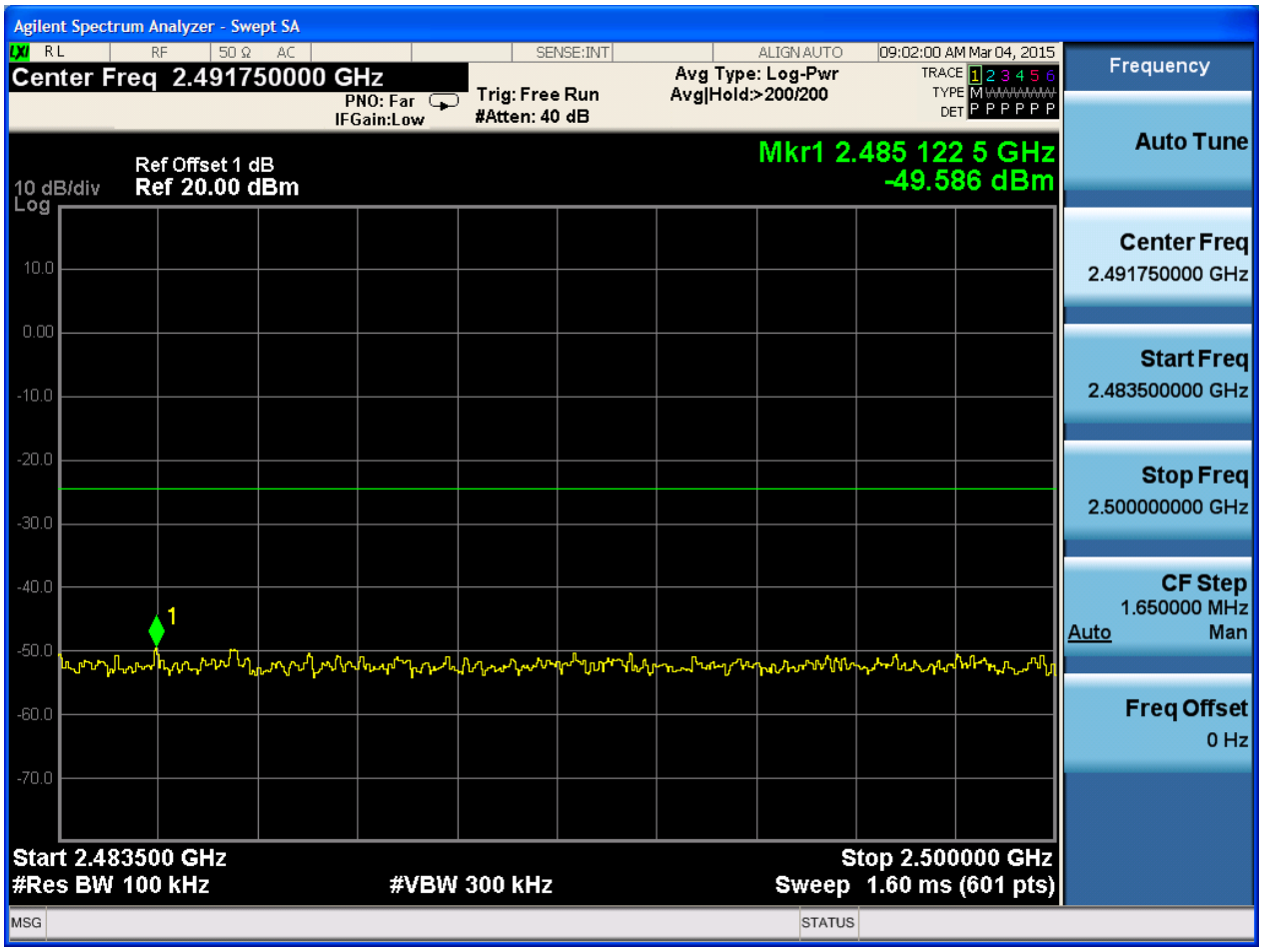

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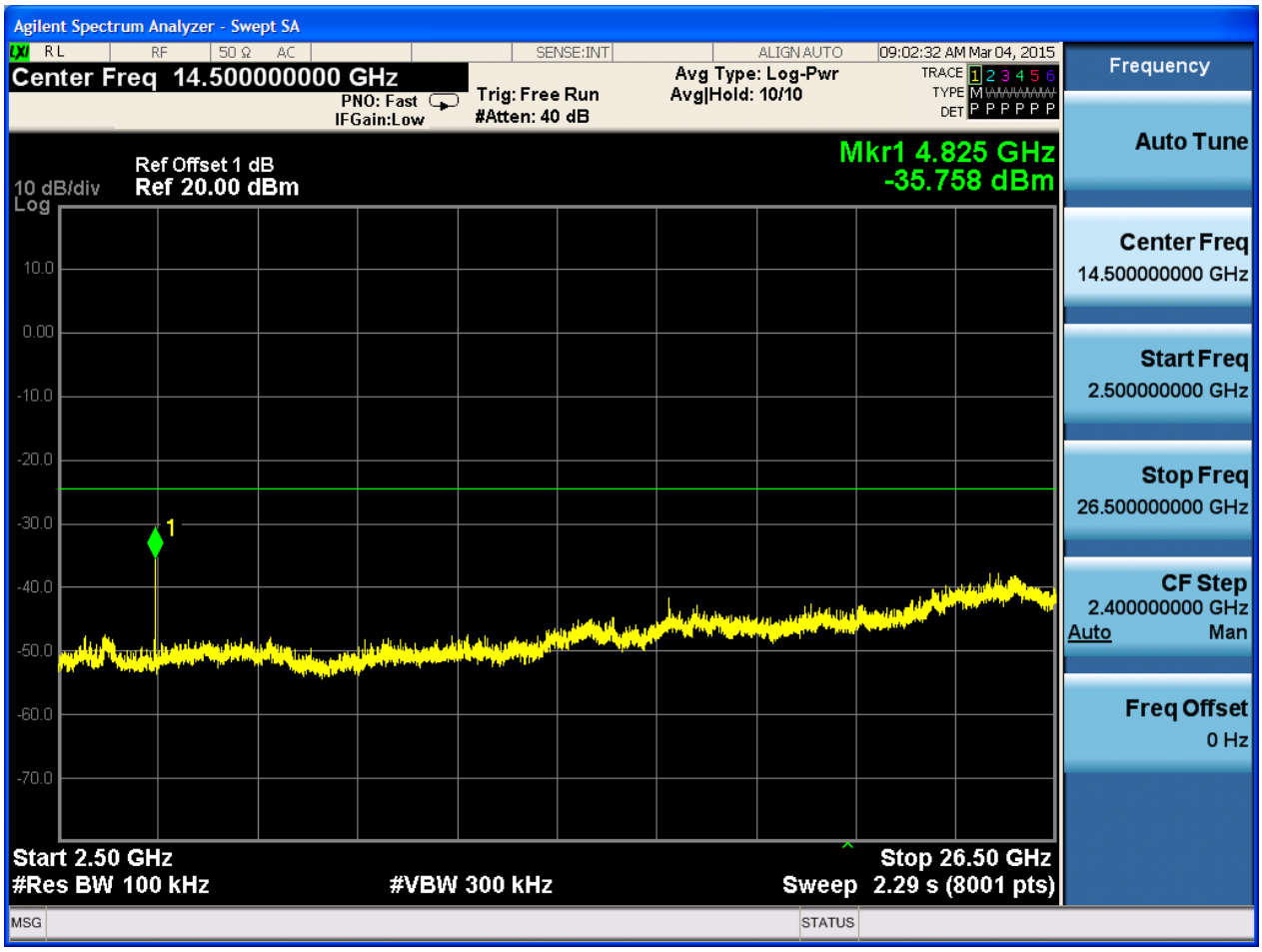

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2.2 11B_L@Ant 2

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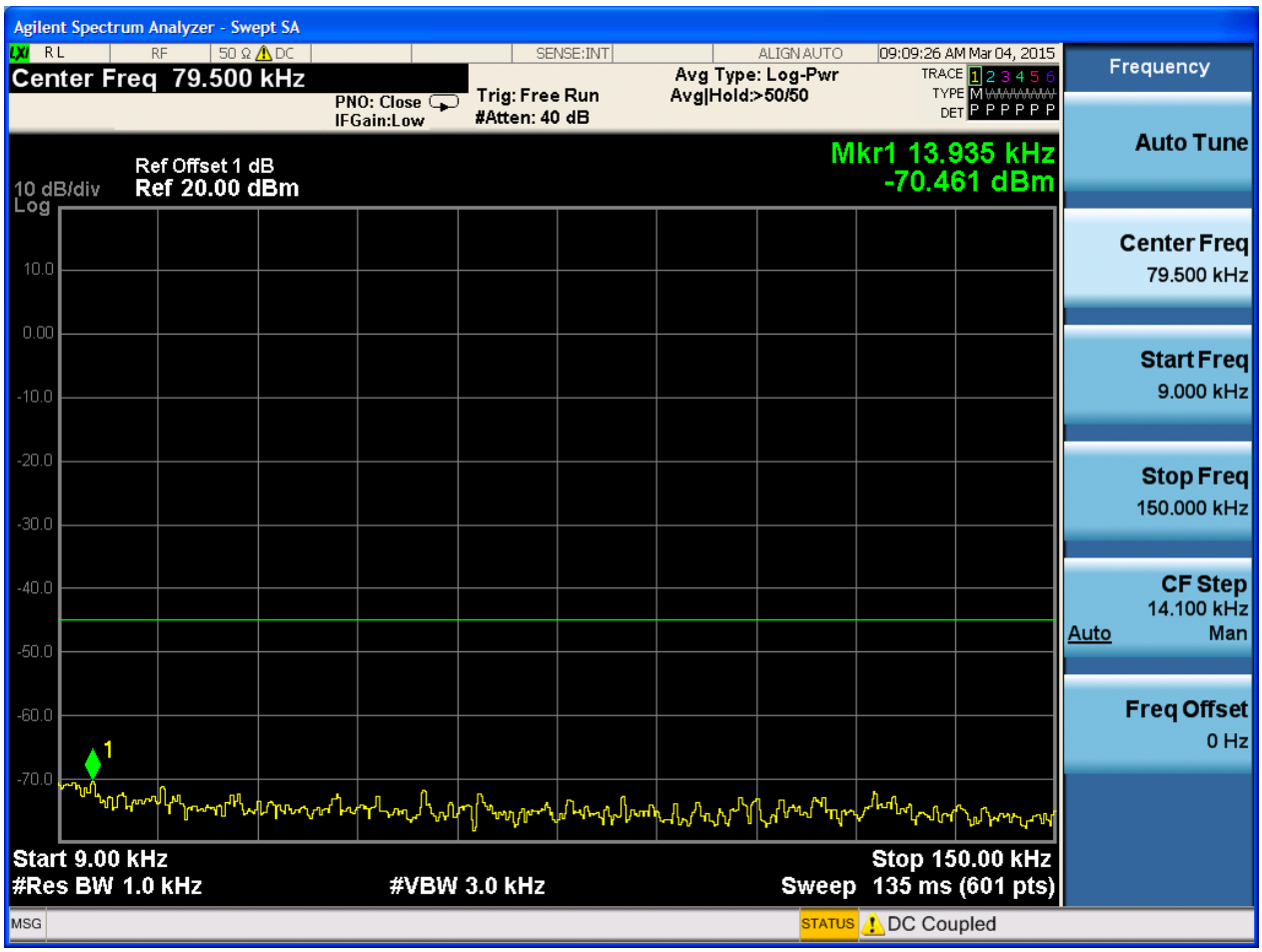

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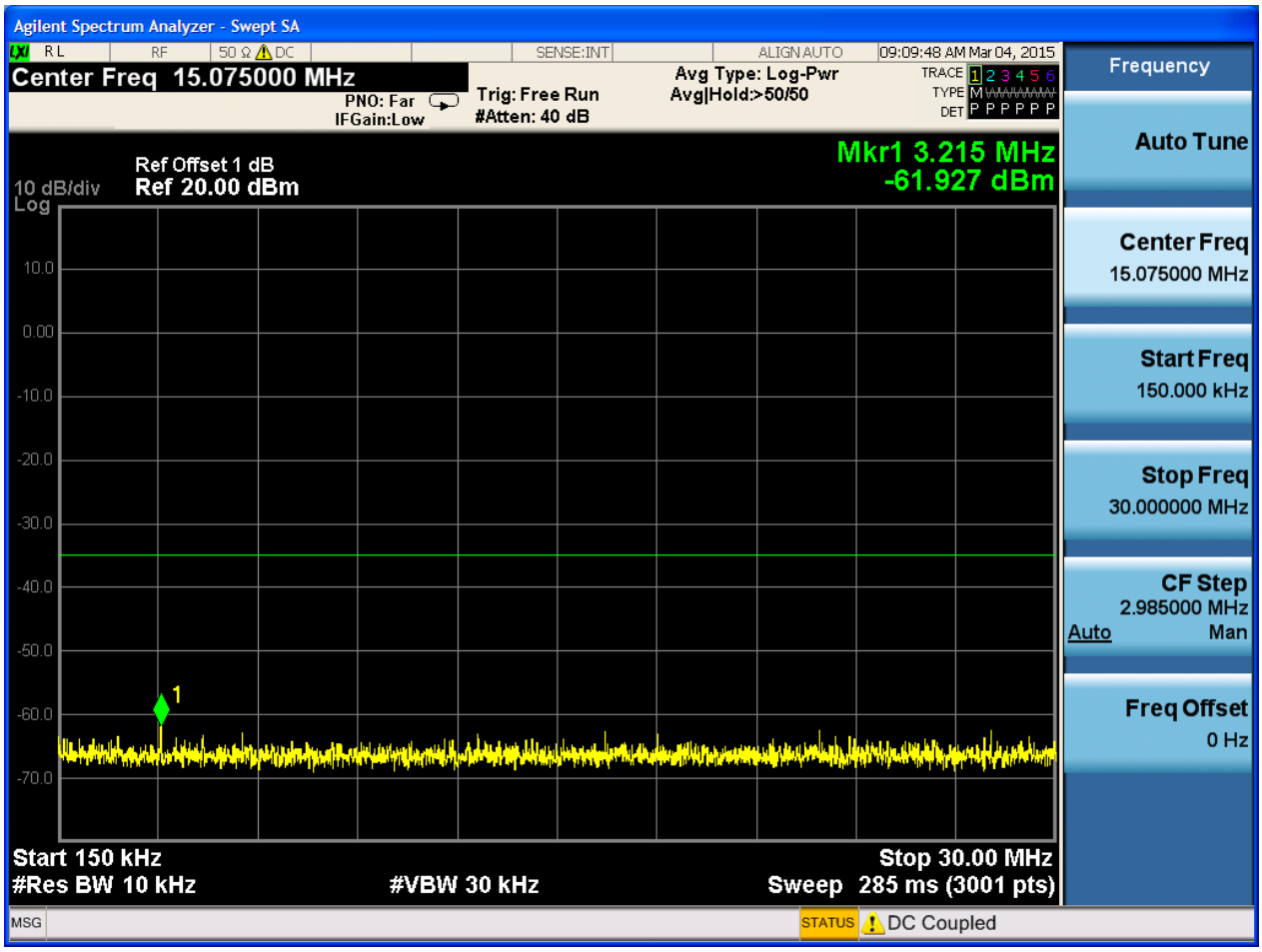

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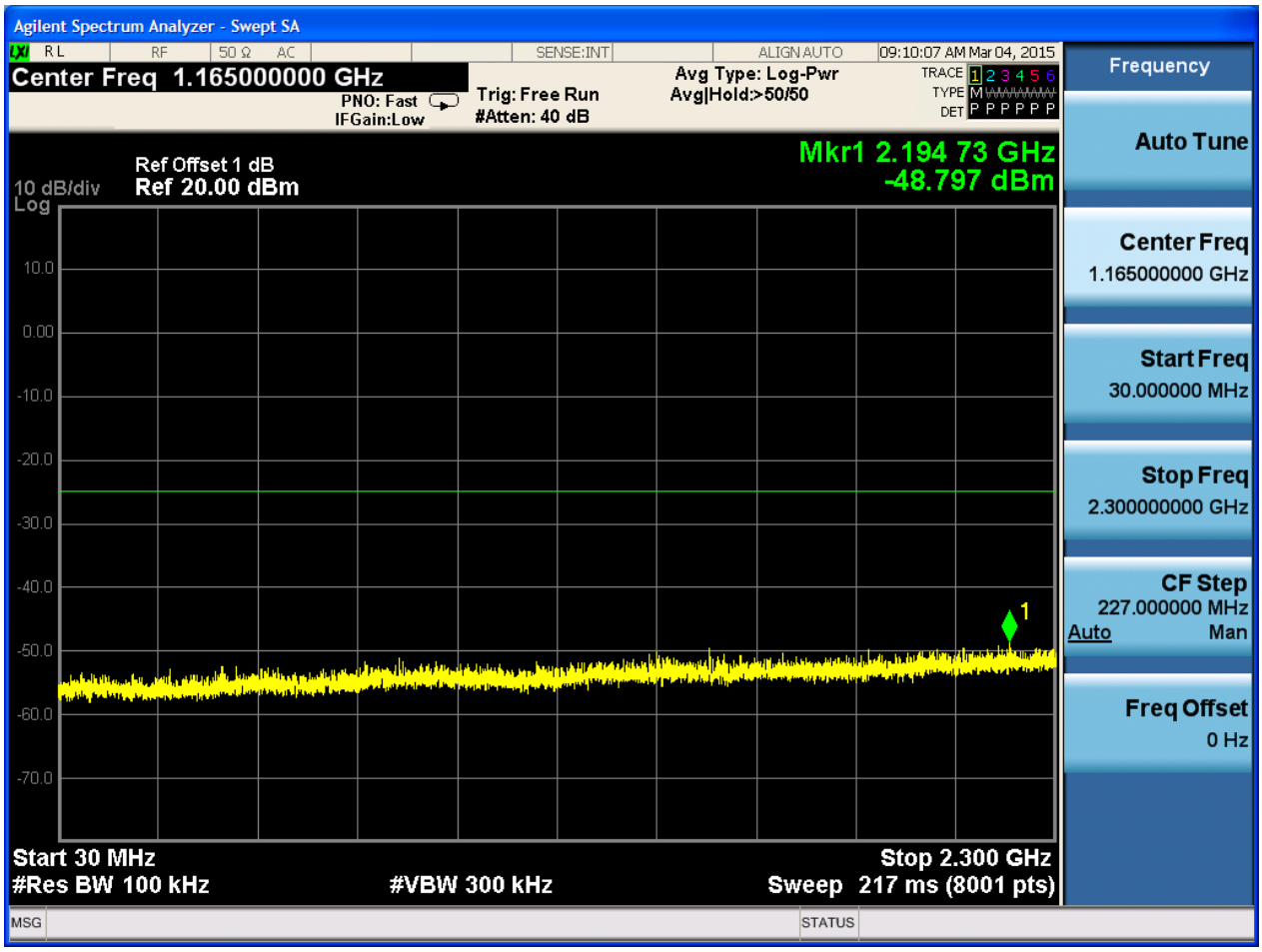

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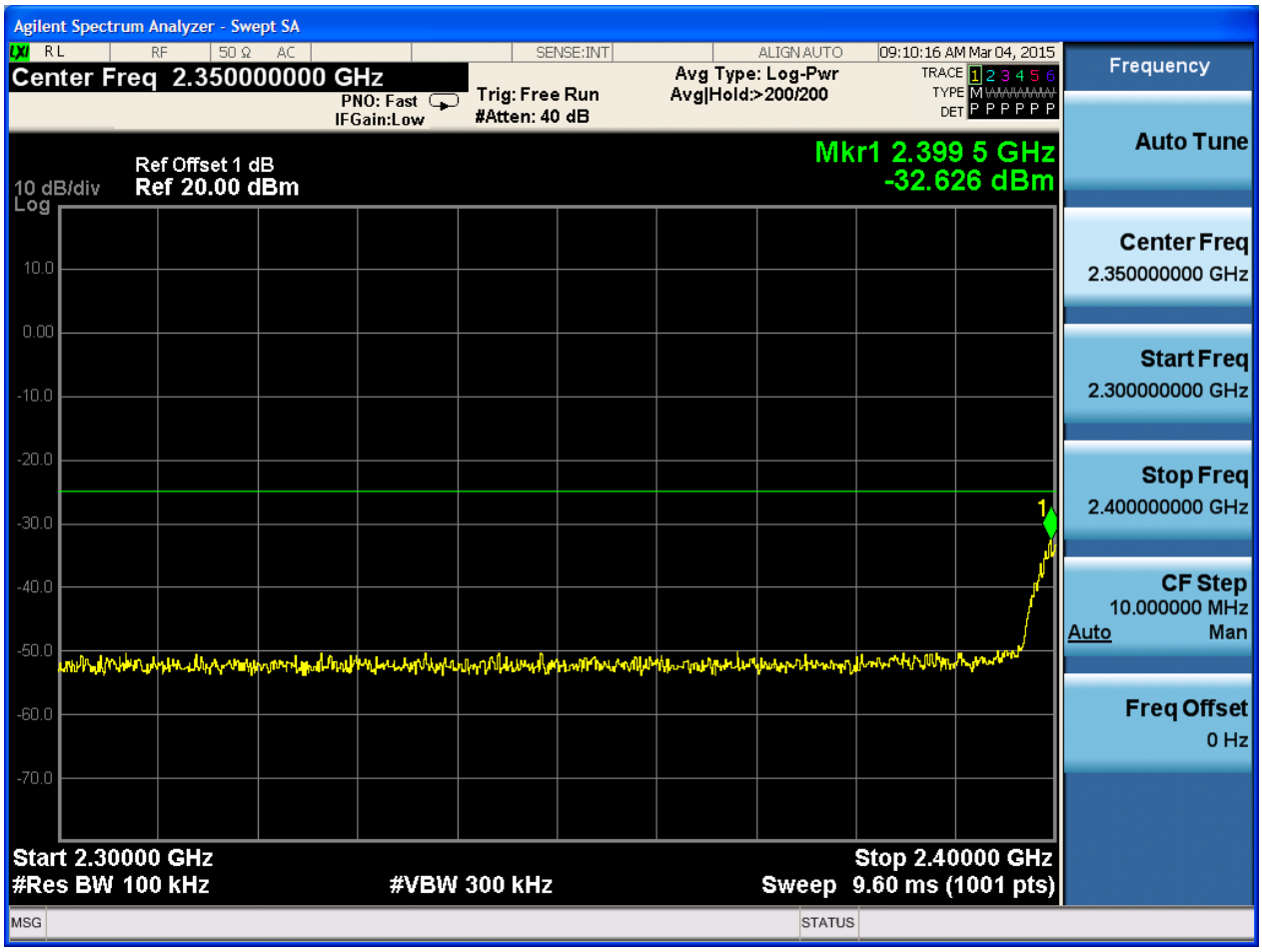

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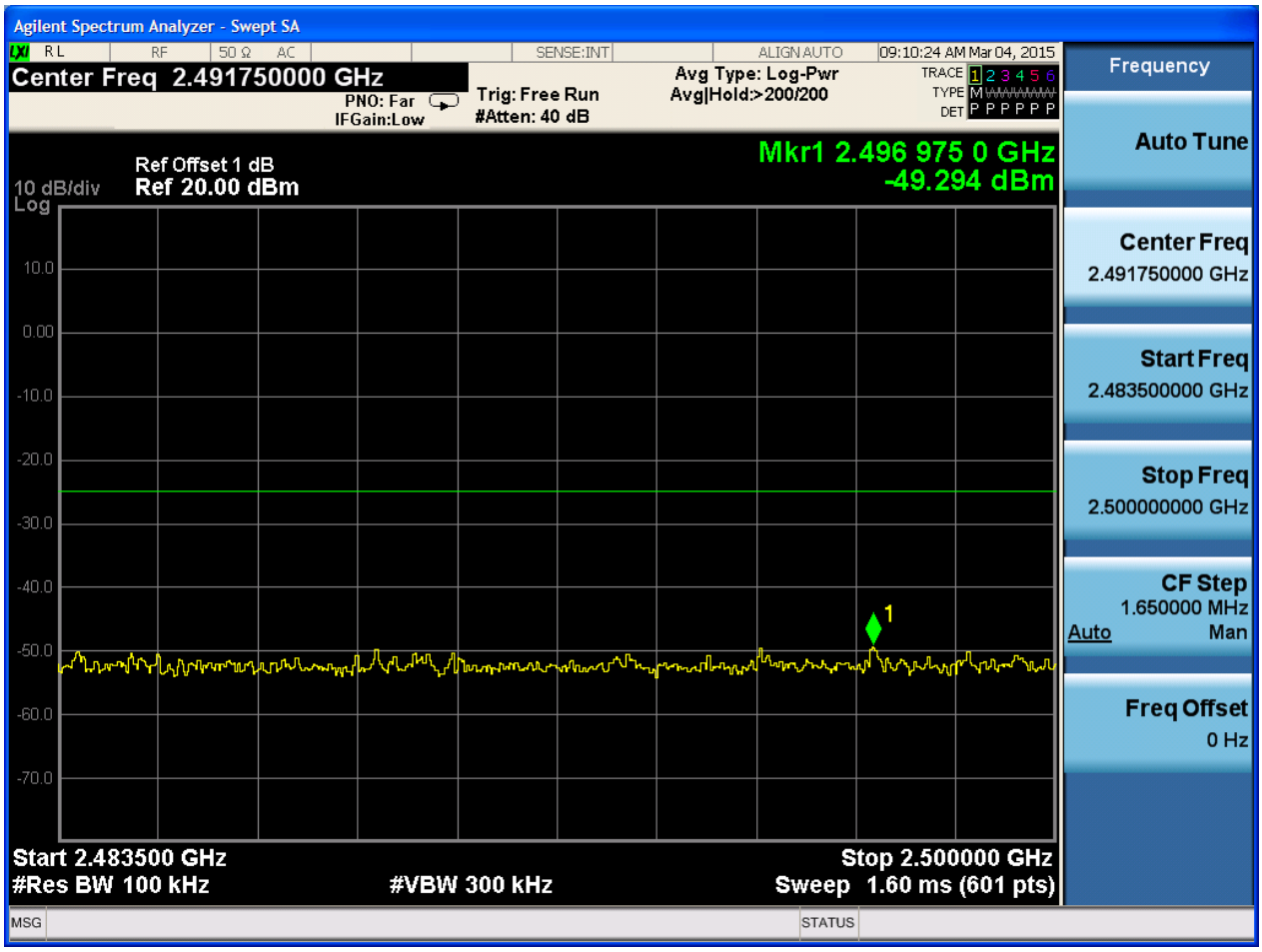

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2.3 11B_M@Ant 1

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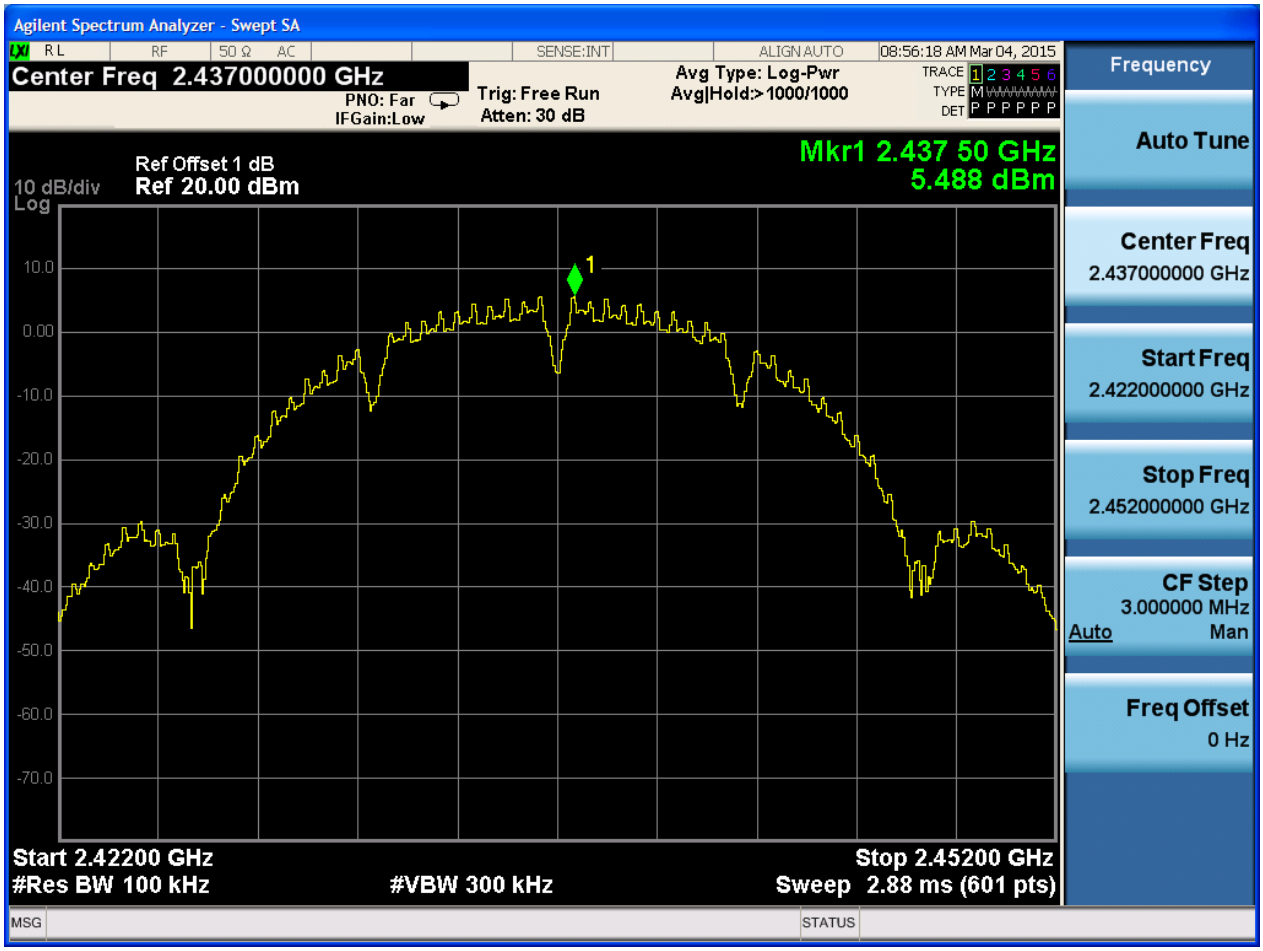

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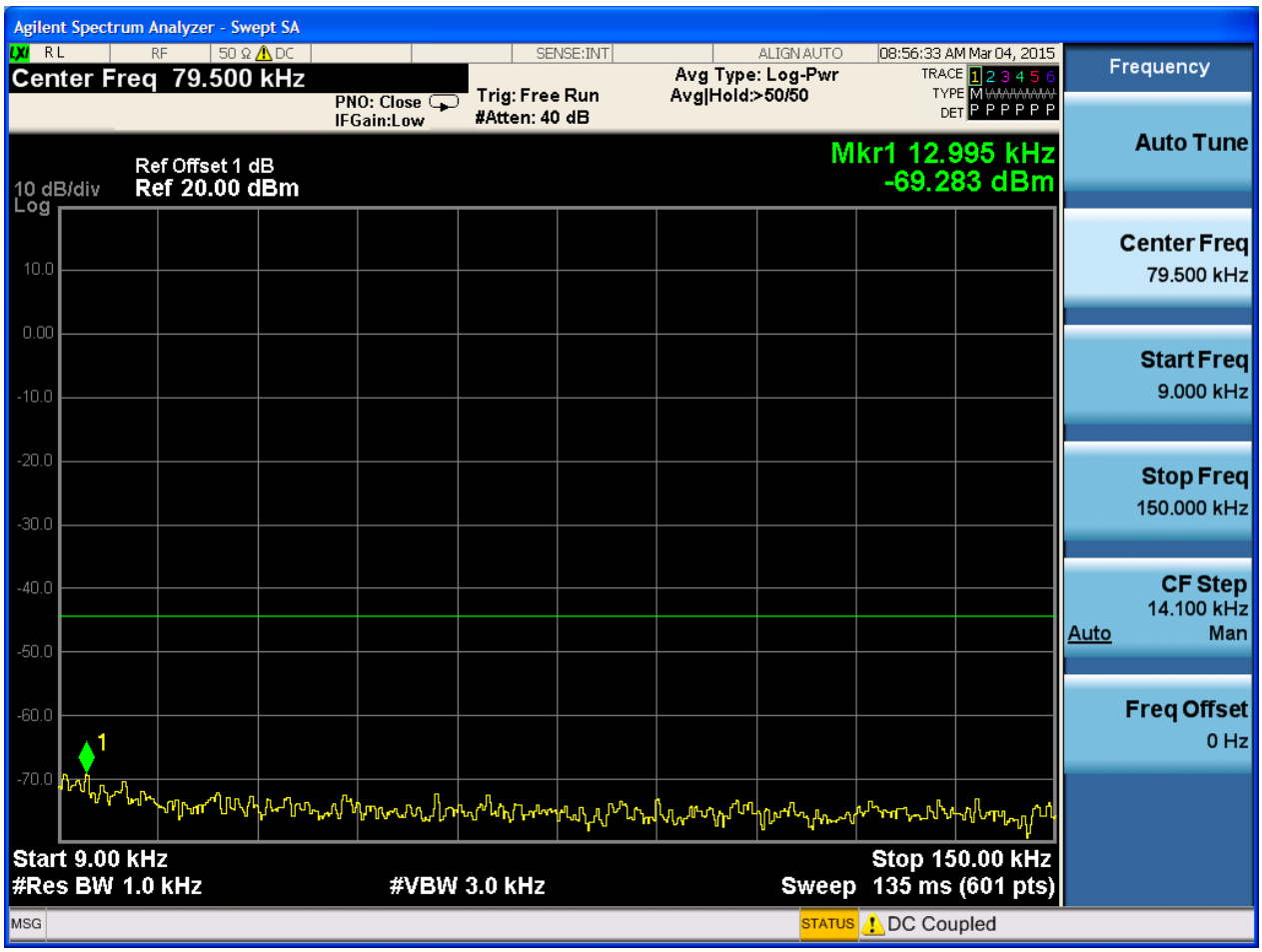

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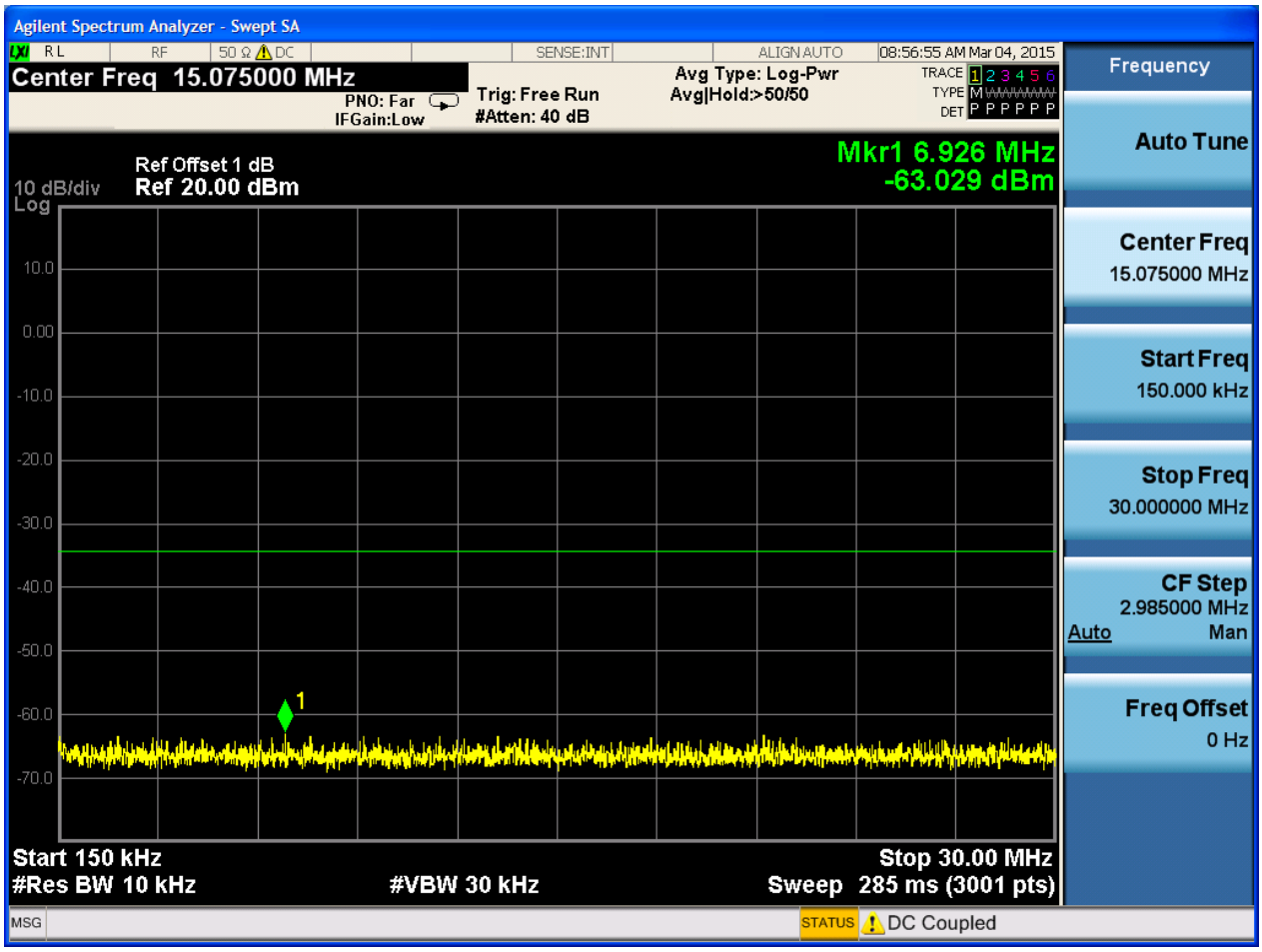

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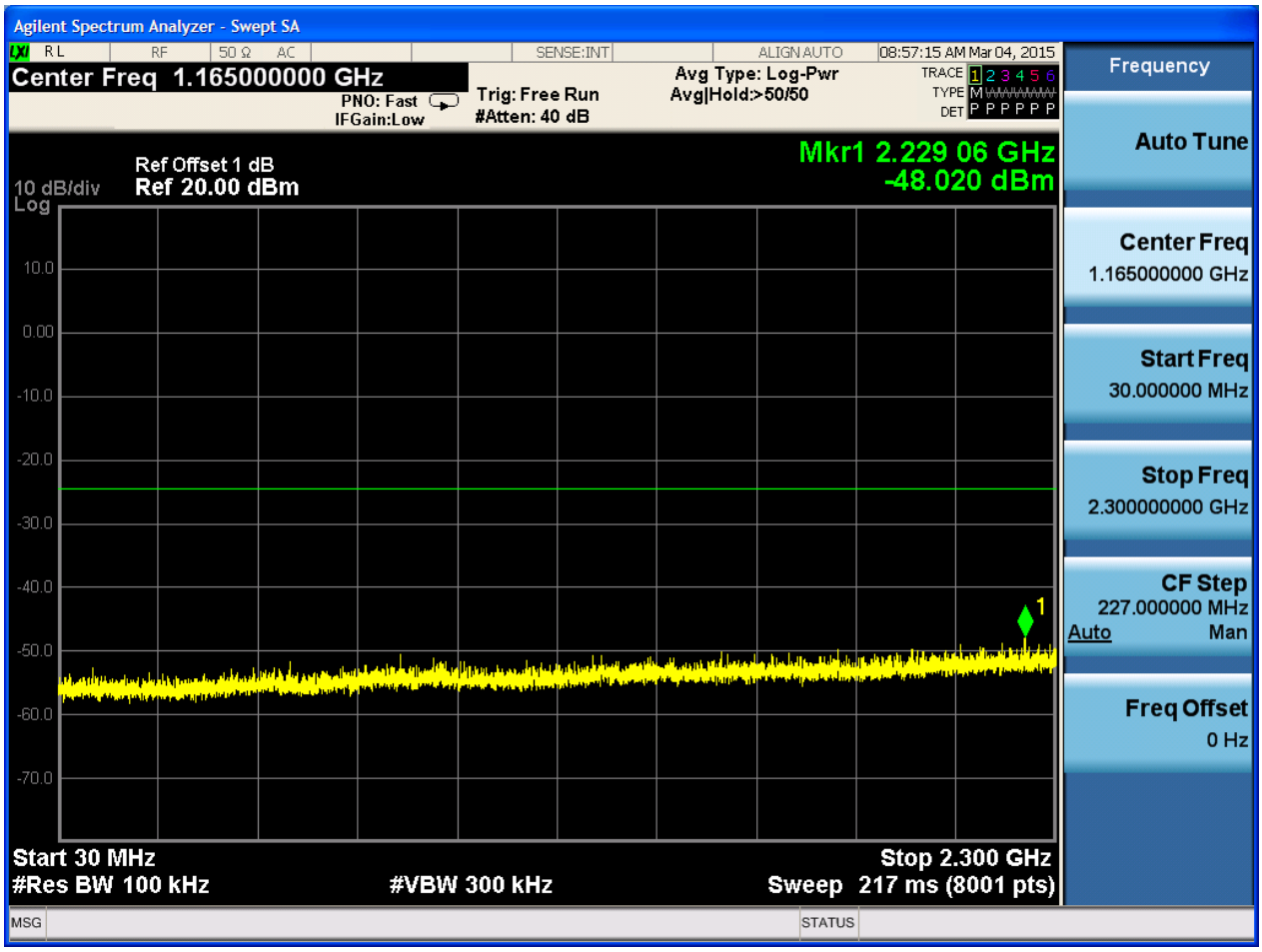

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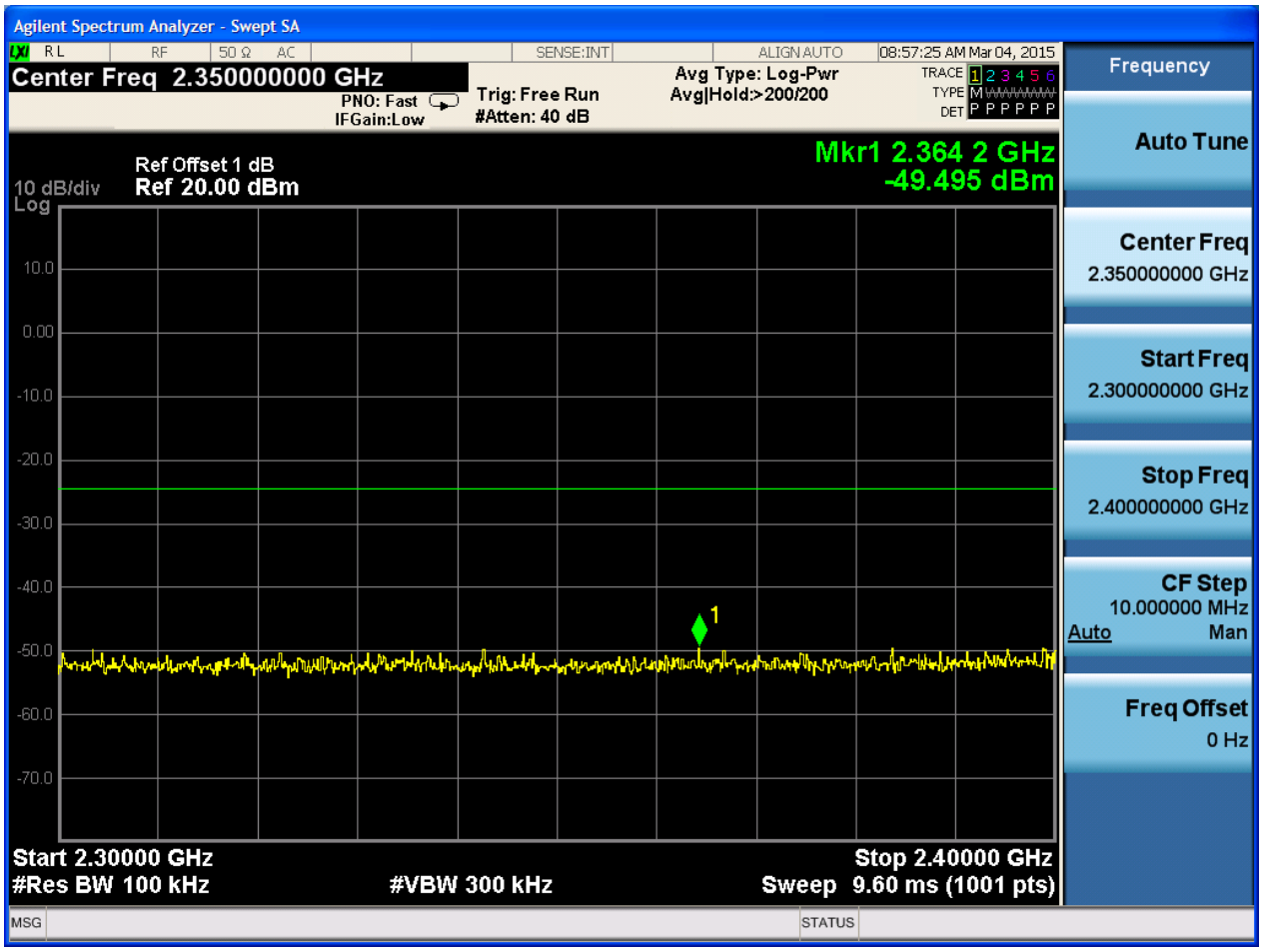

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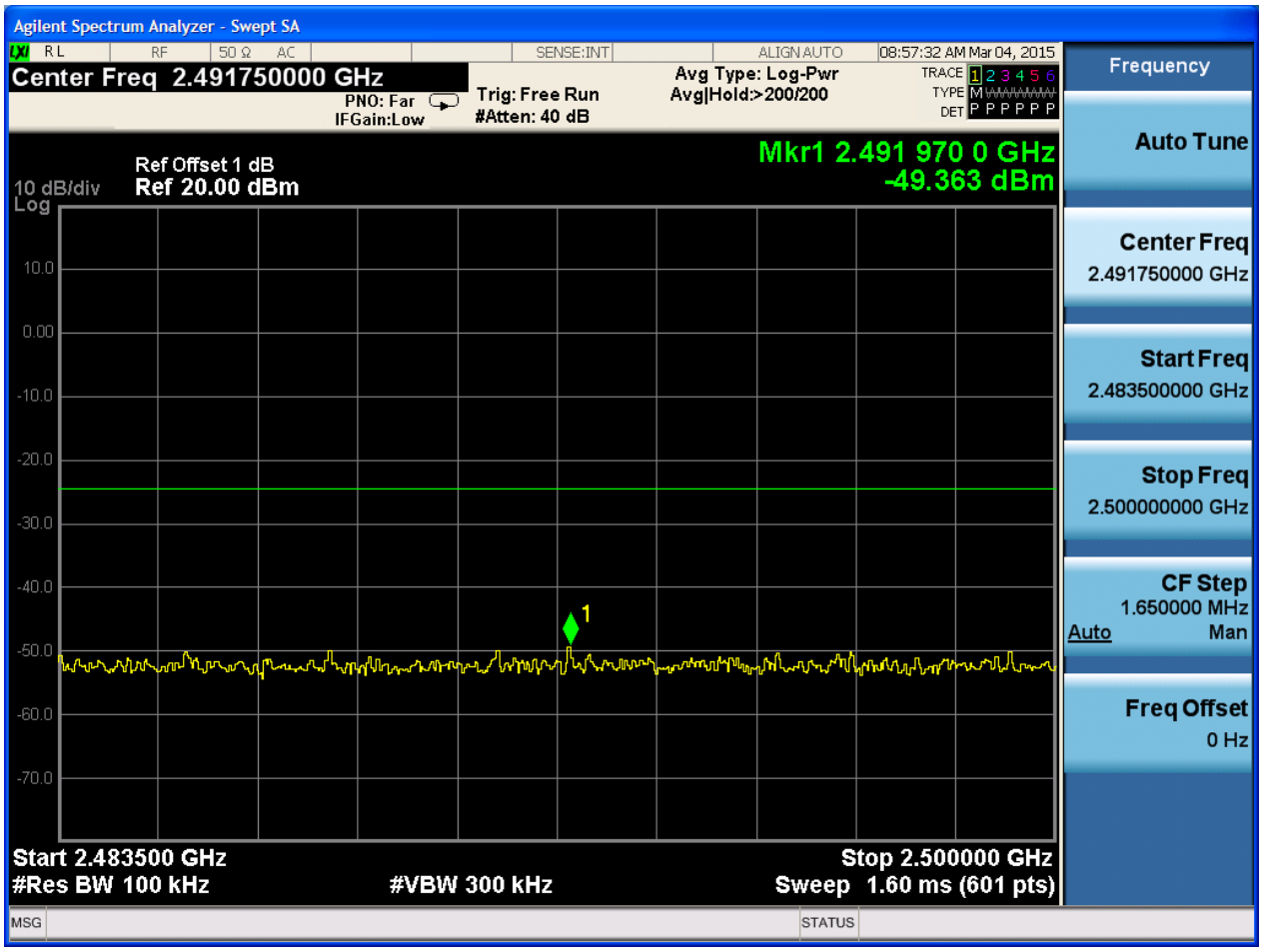

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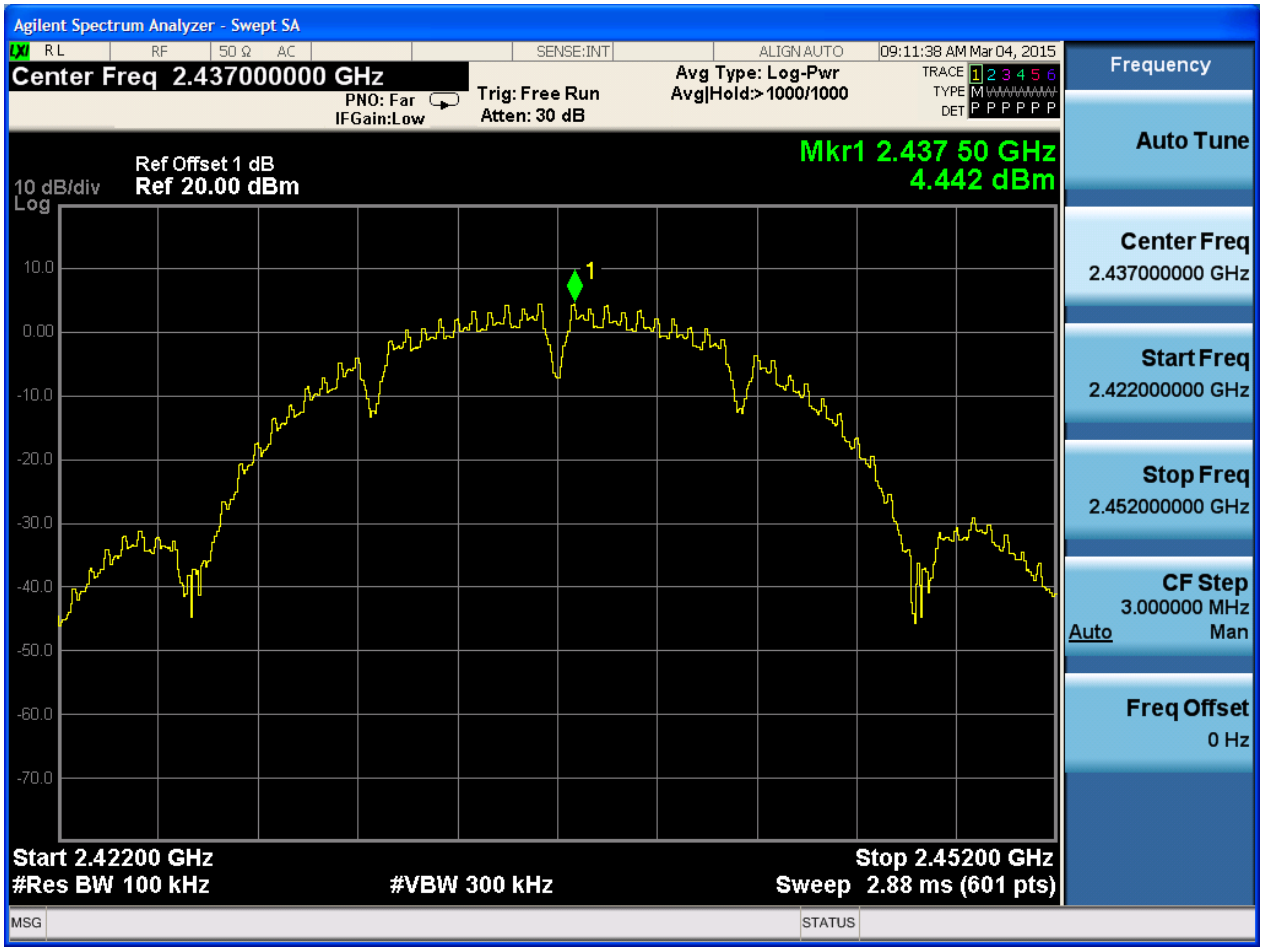

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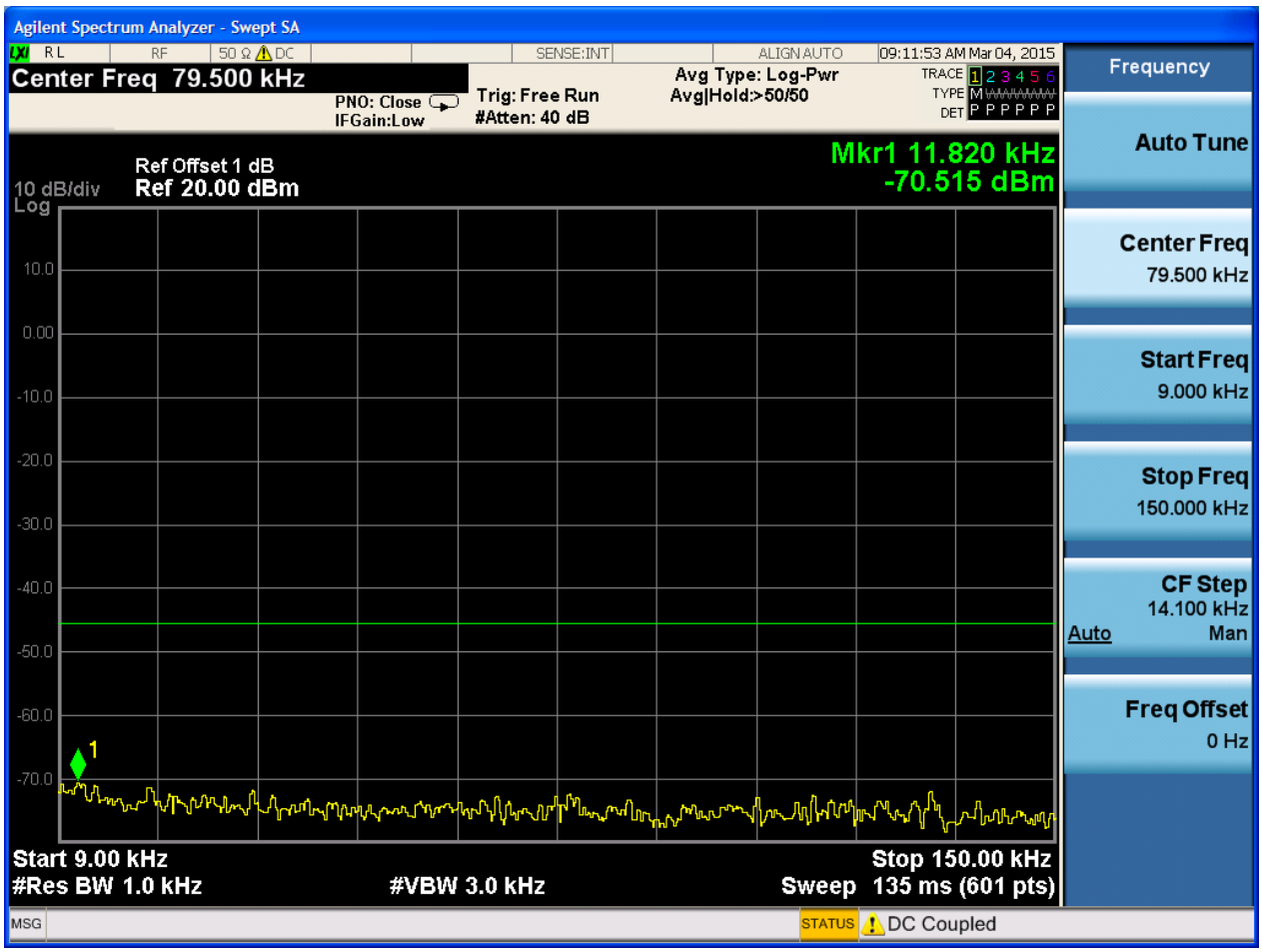
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TYPE M
DET P P P P P P
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Log
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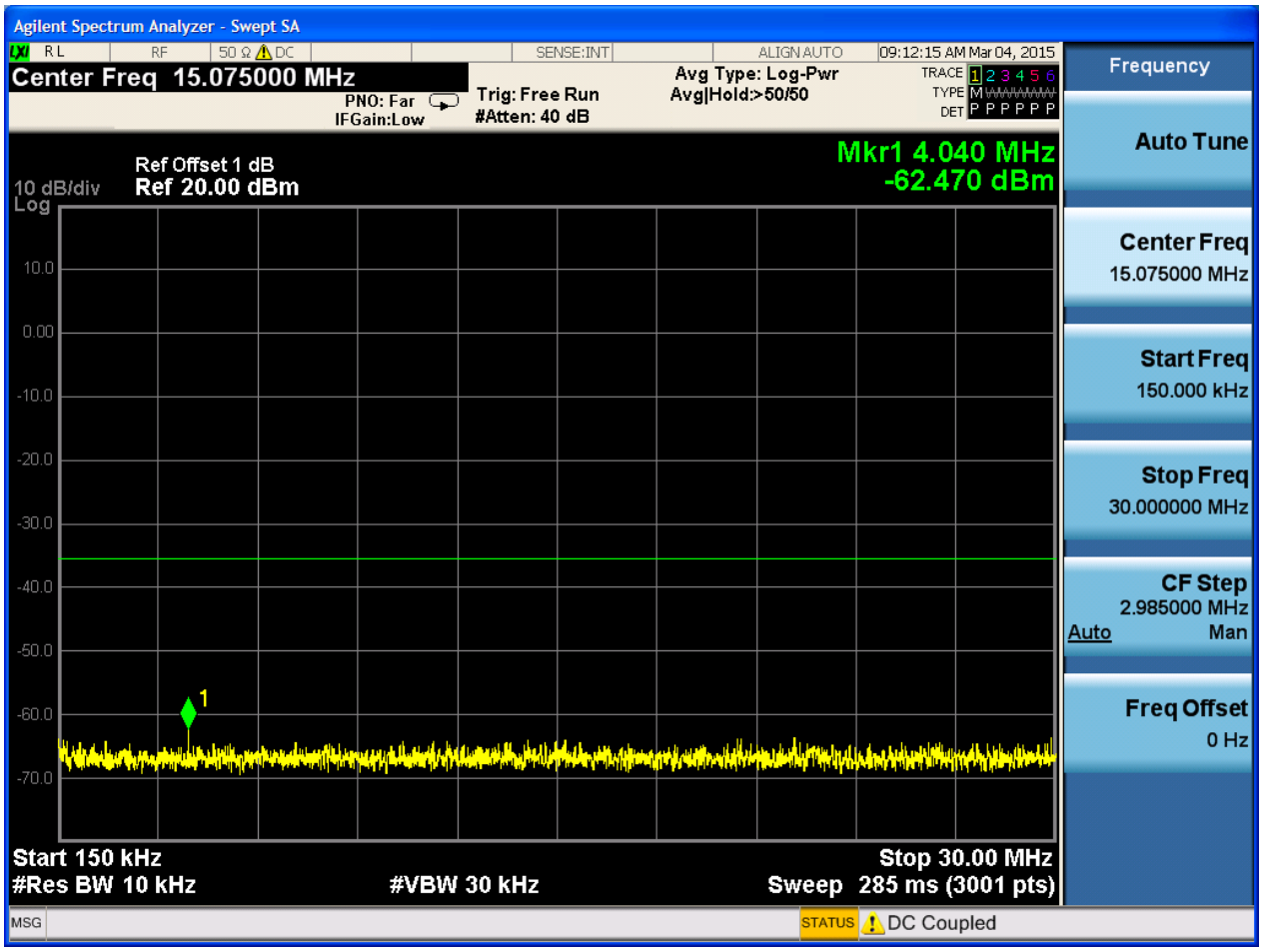

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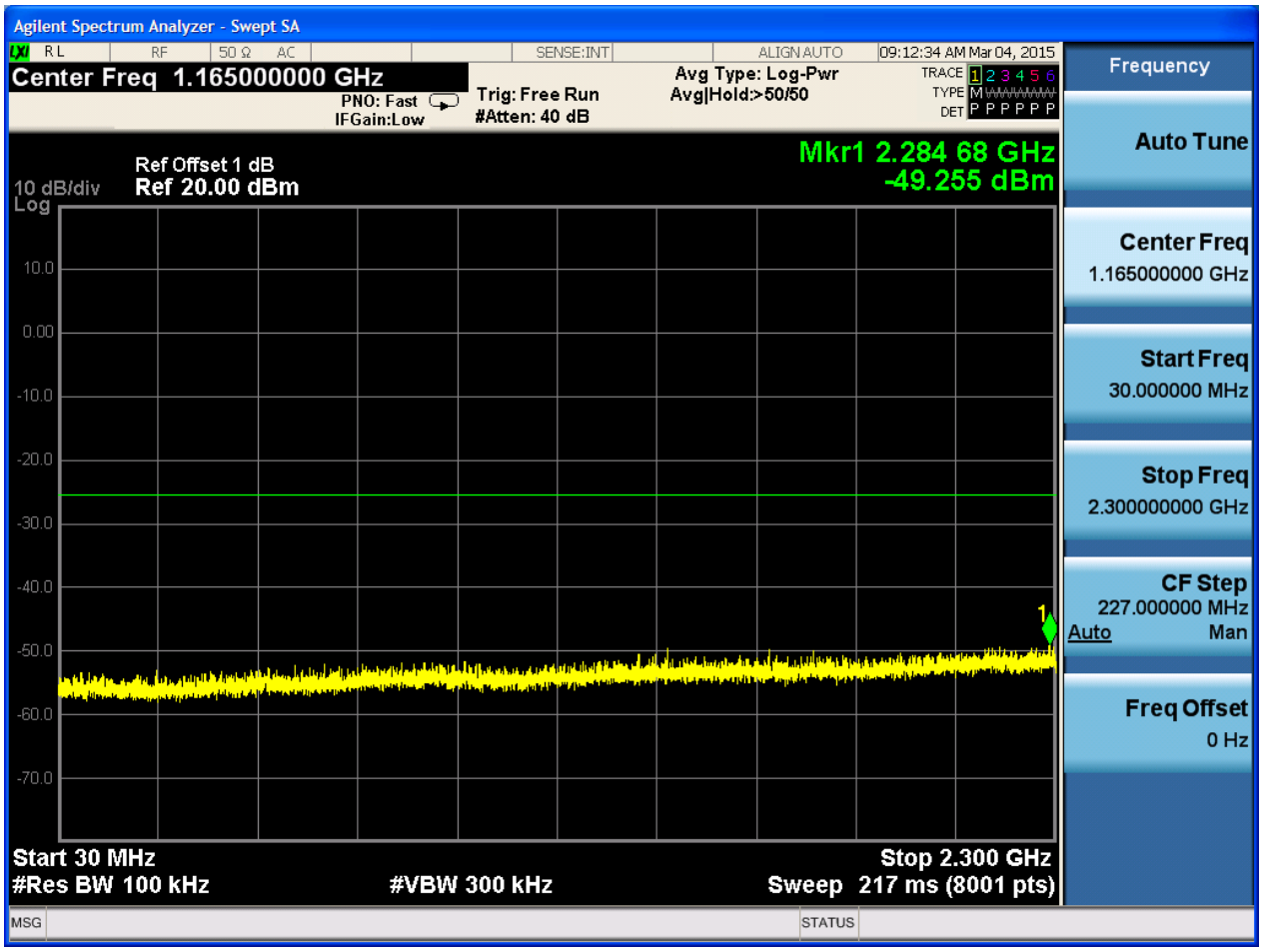

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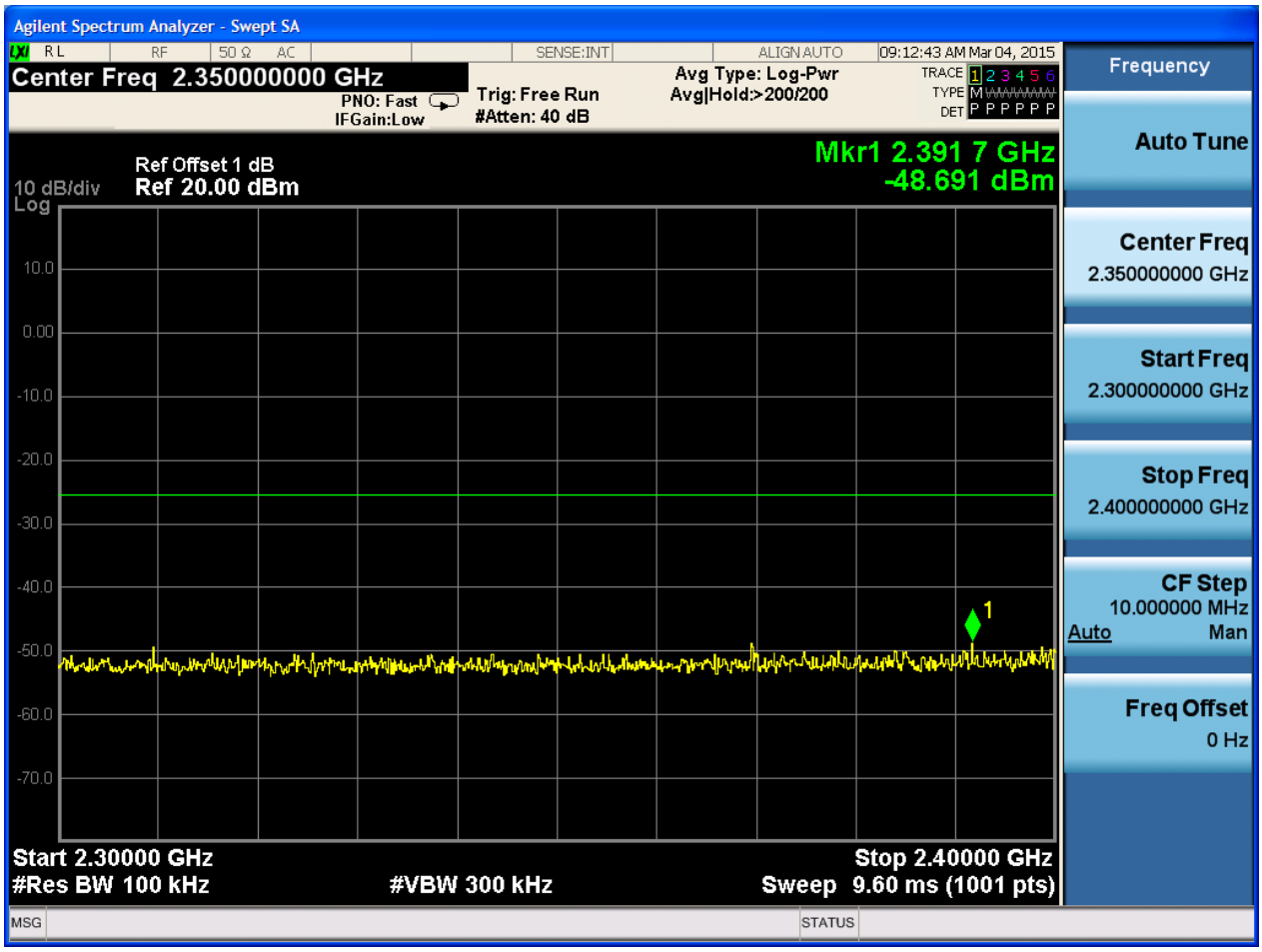

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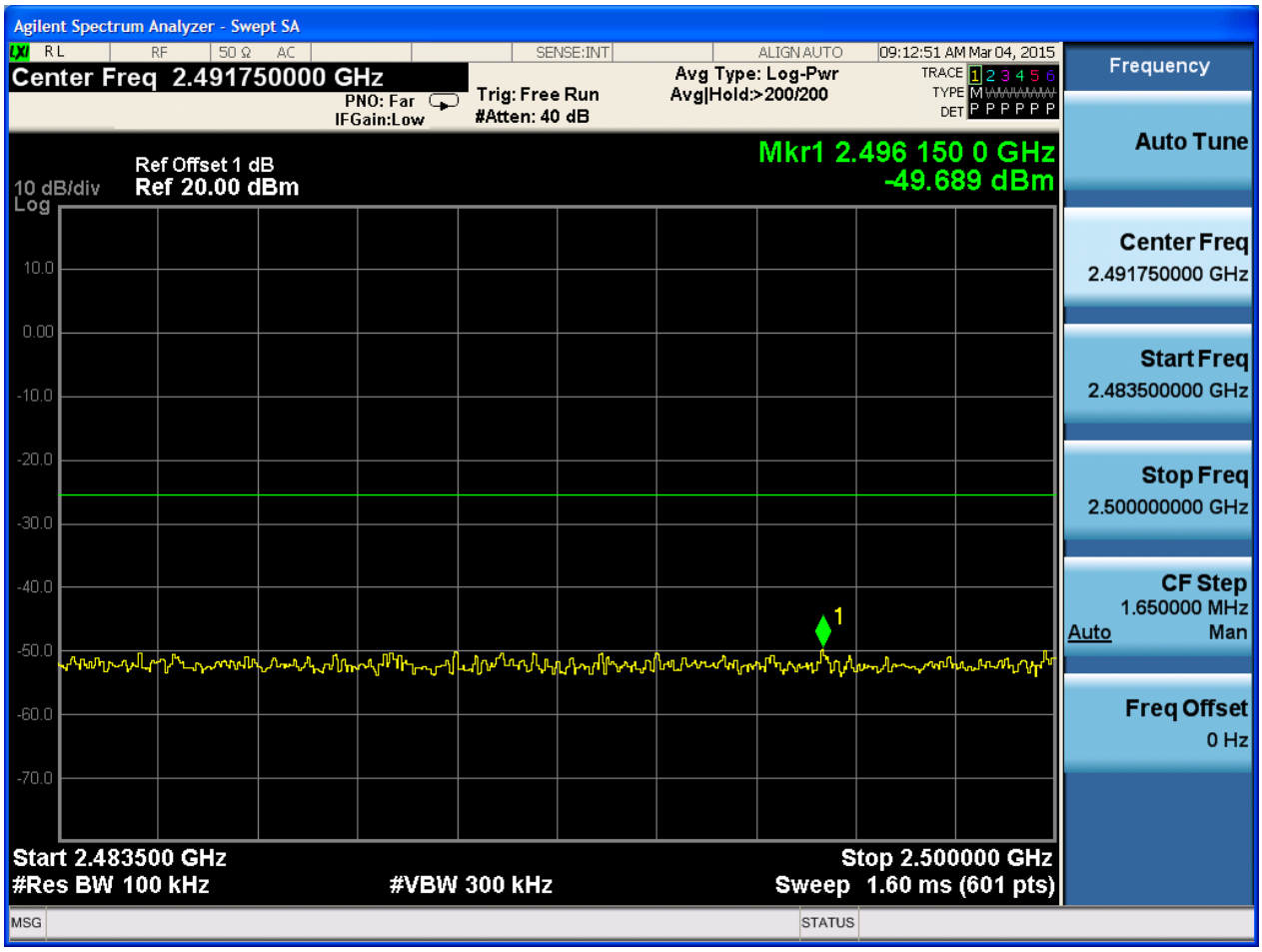

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2.5 11B_H@Ant 1

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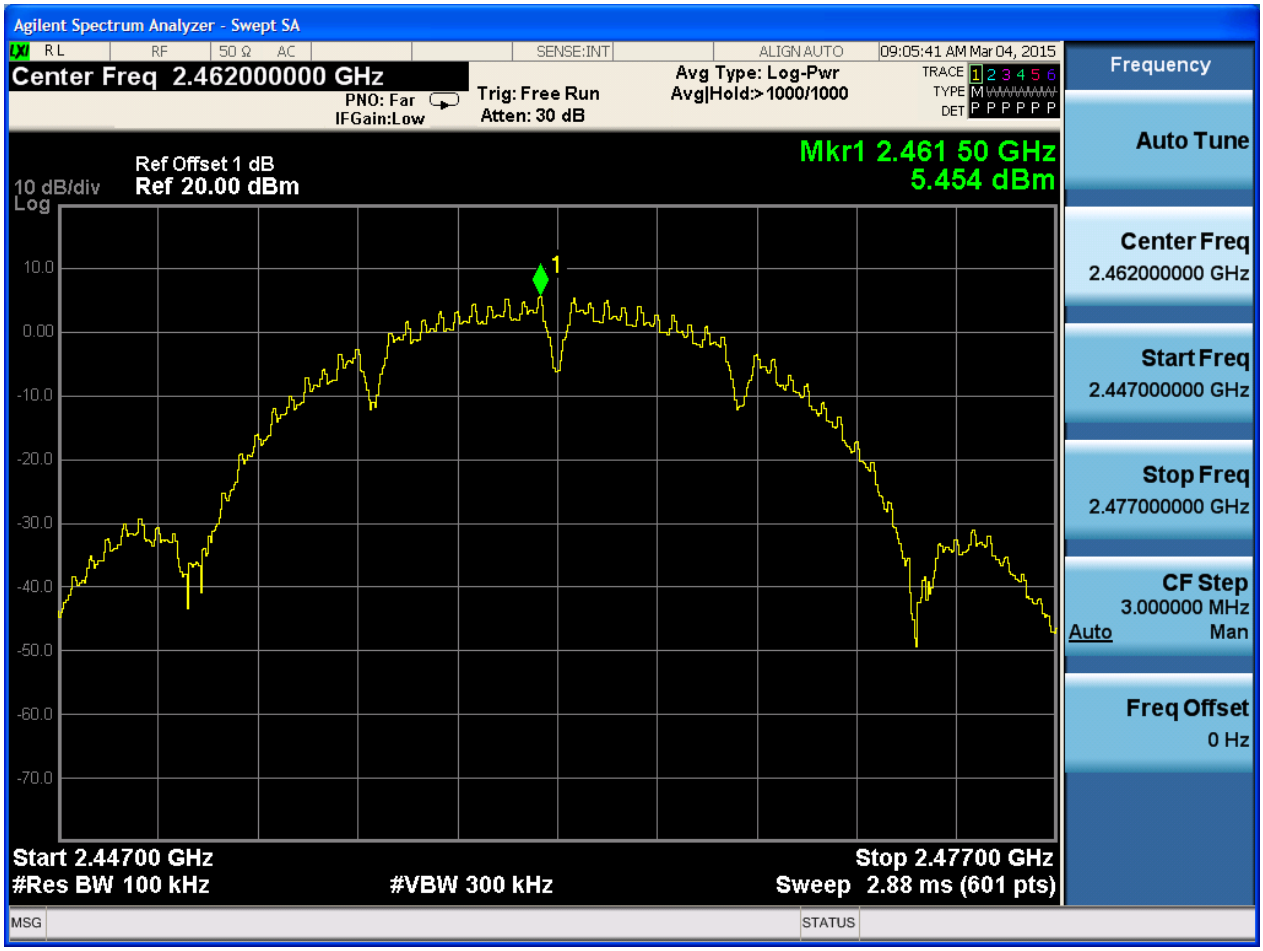

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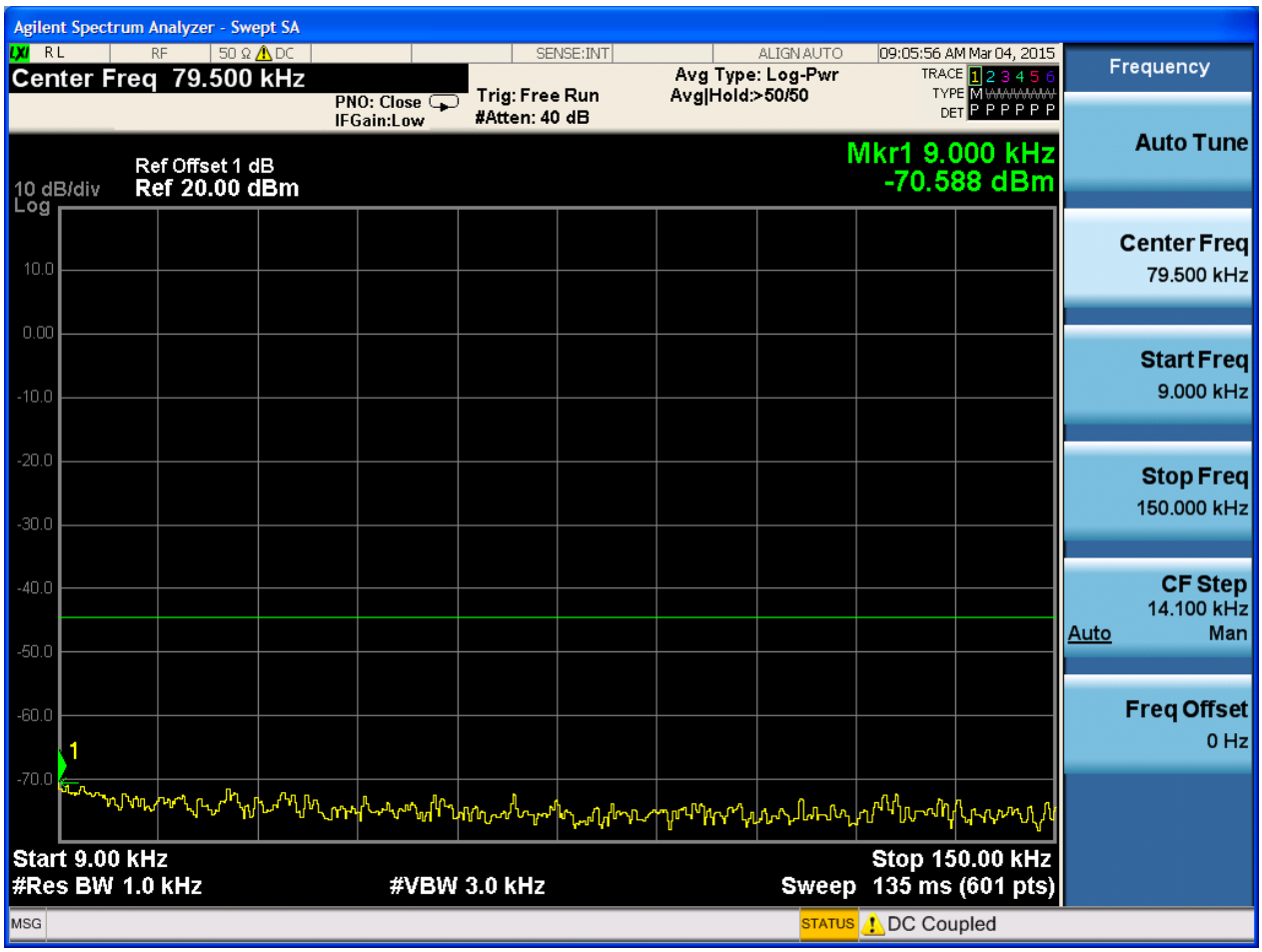

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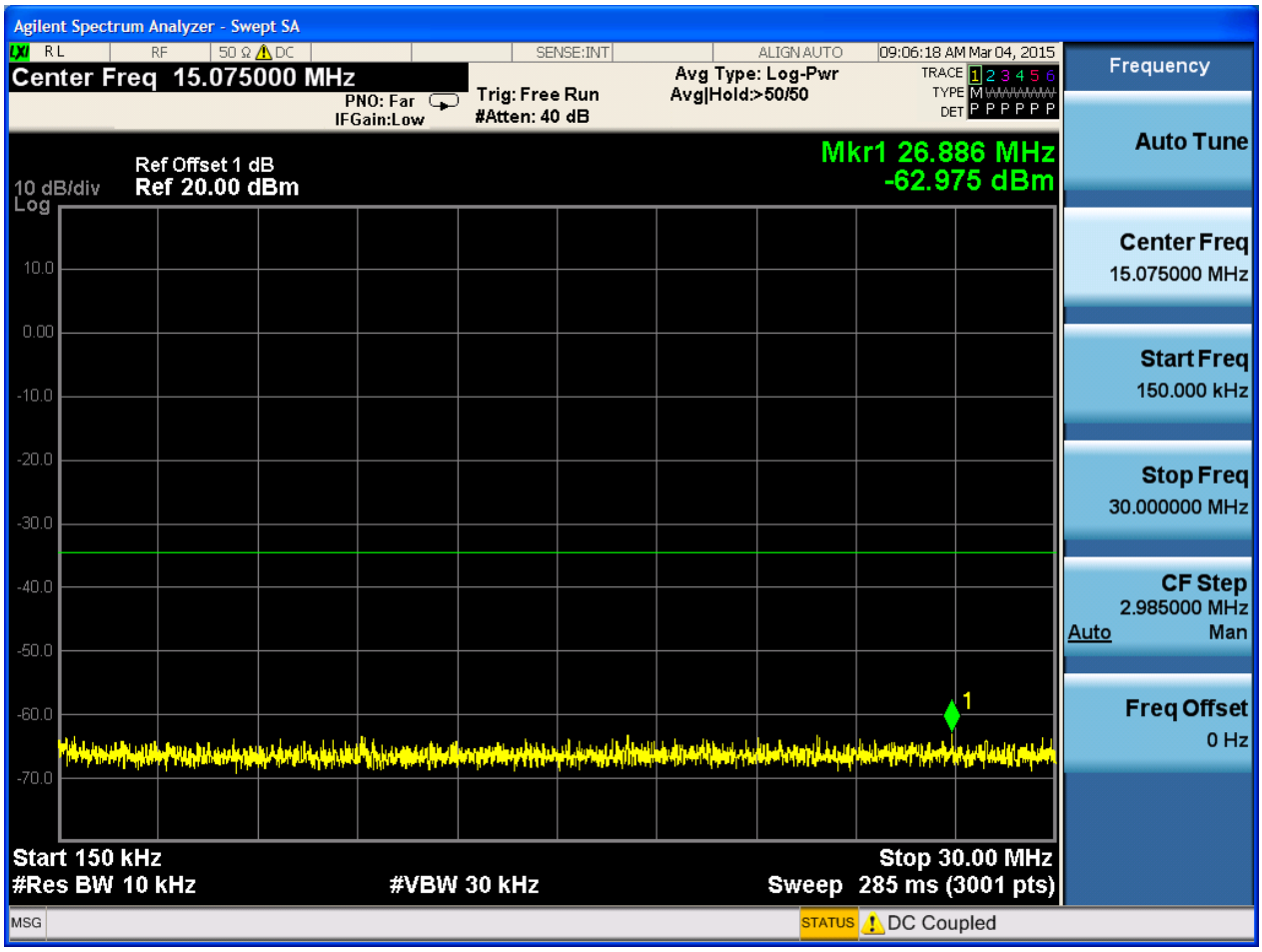

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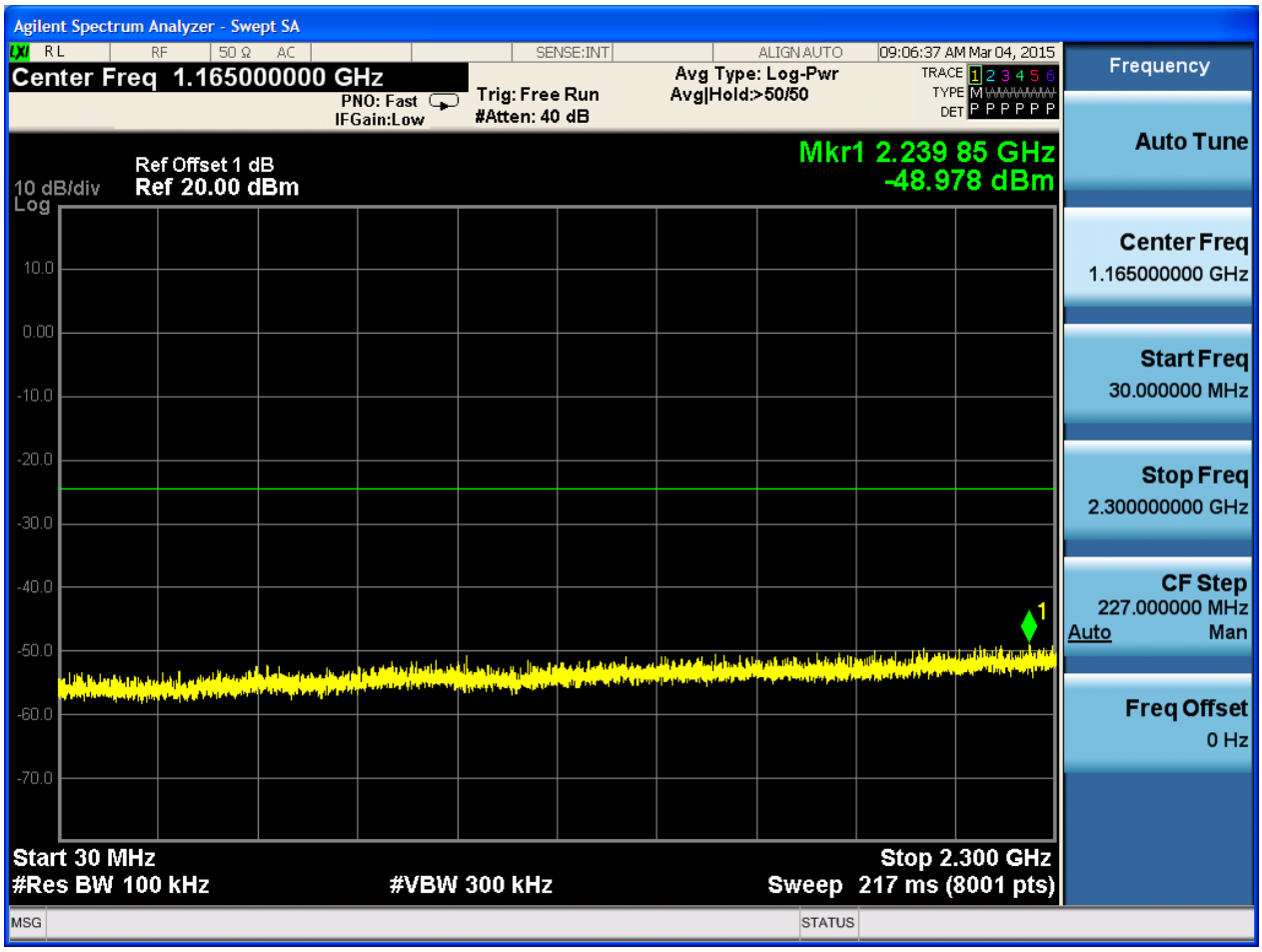

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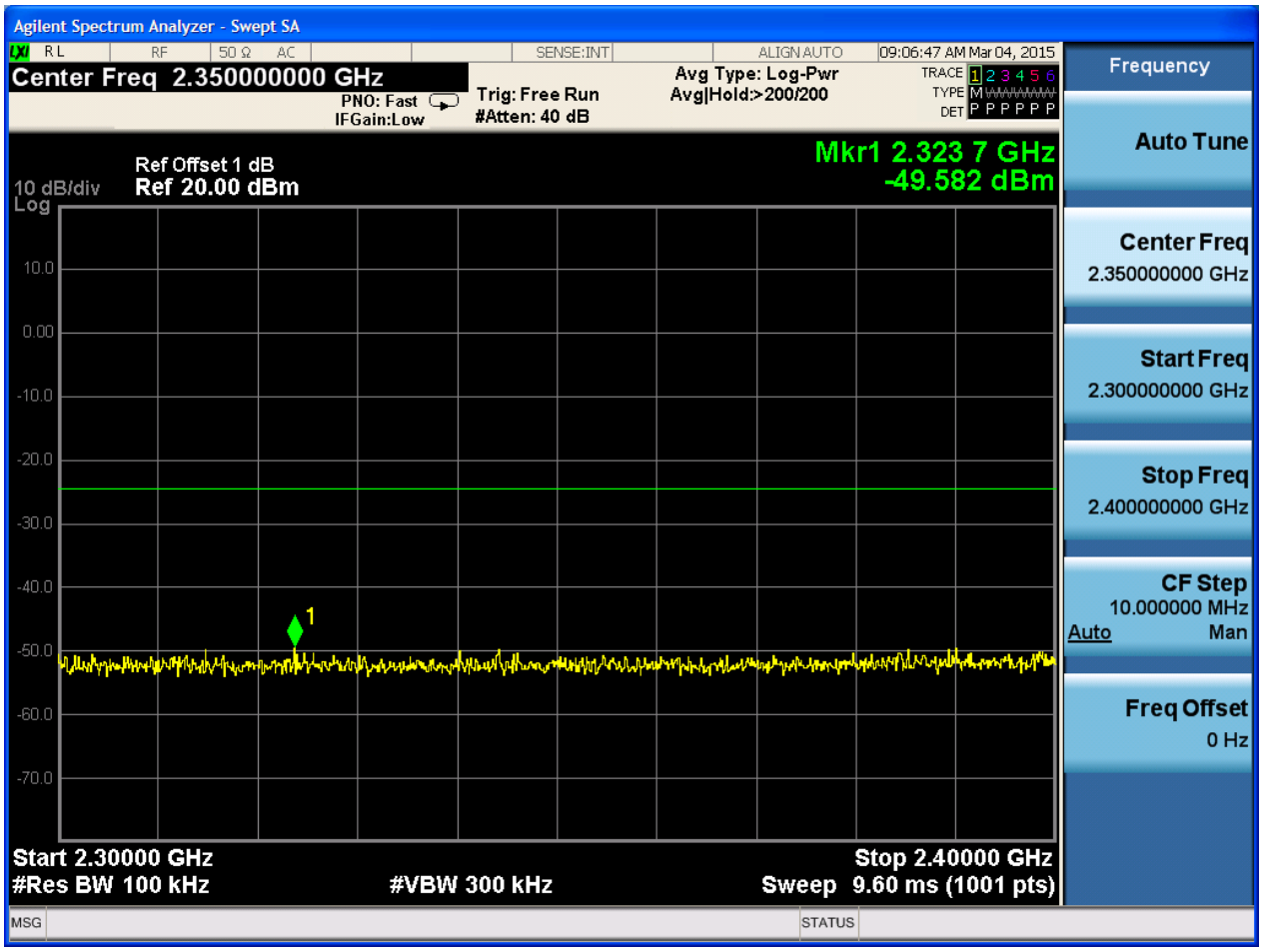

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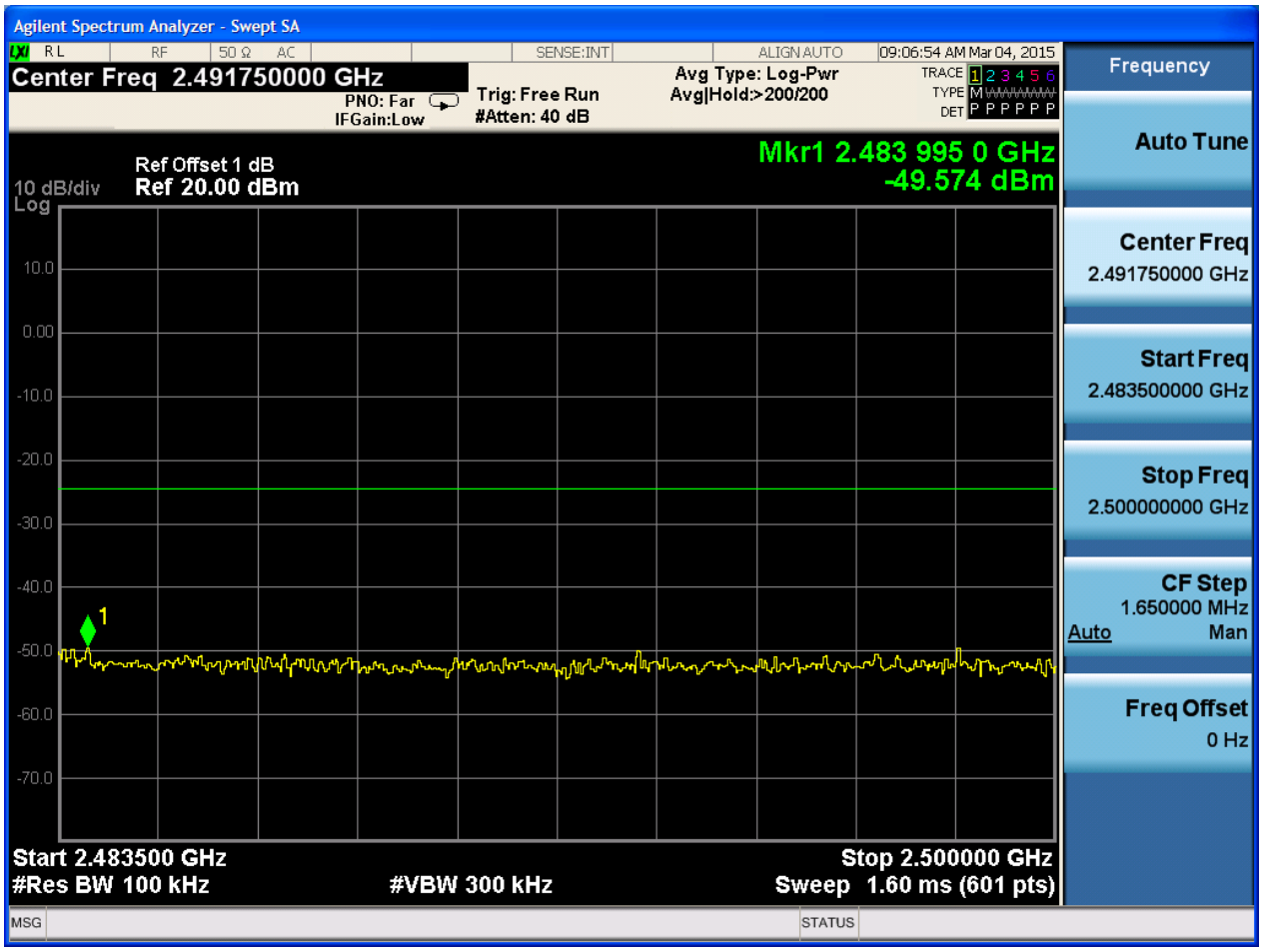

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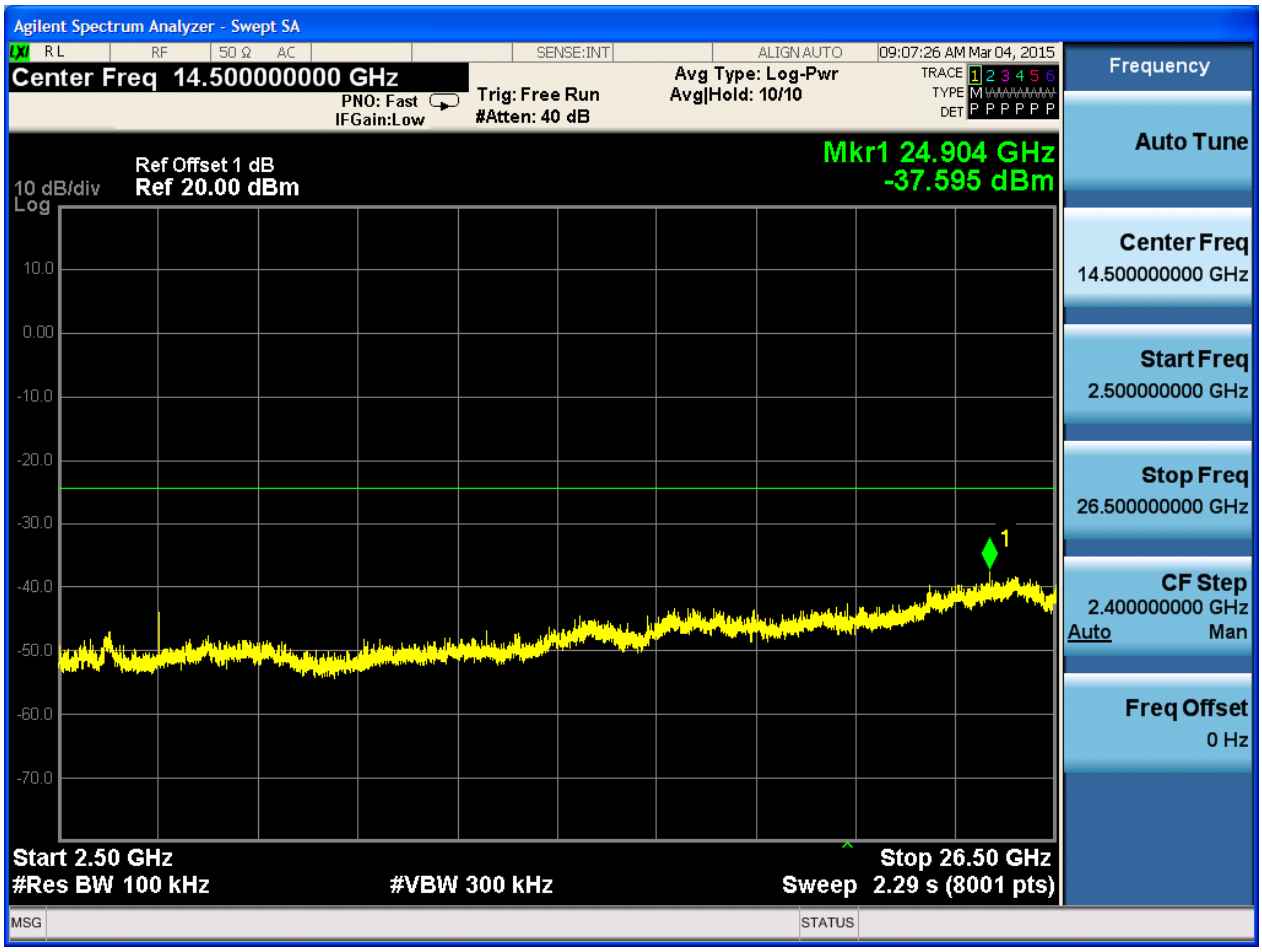

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2.6 11B_H@Ant 2

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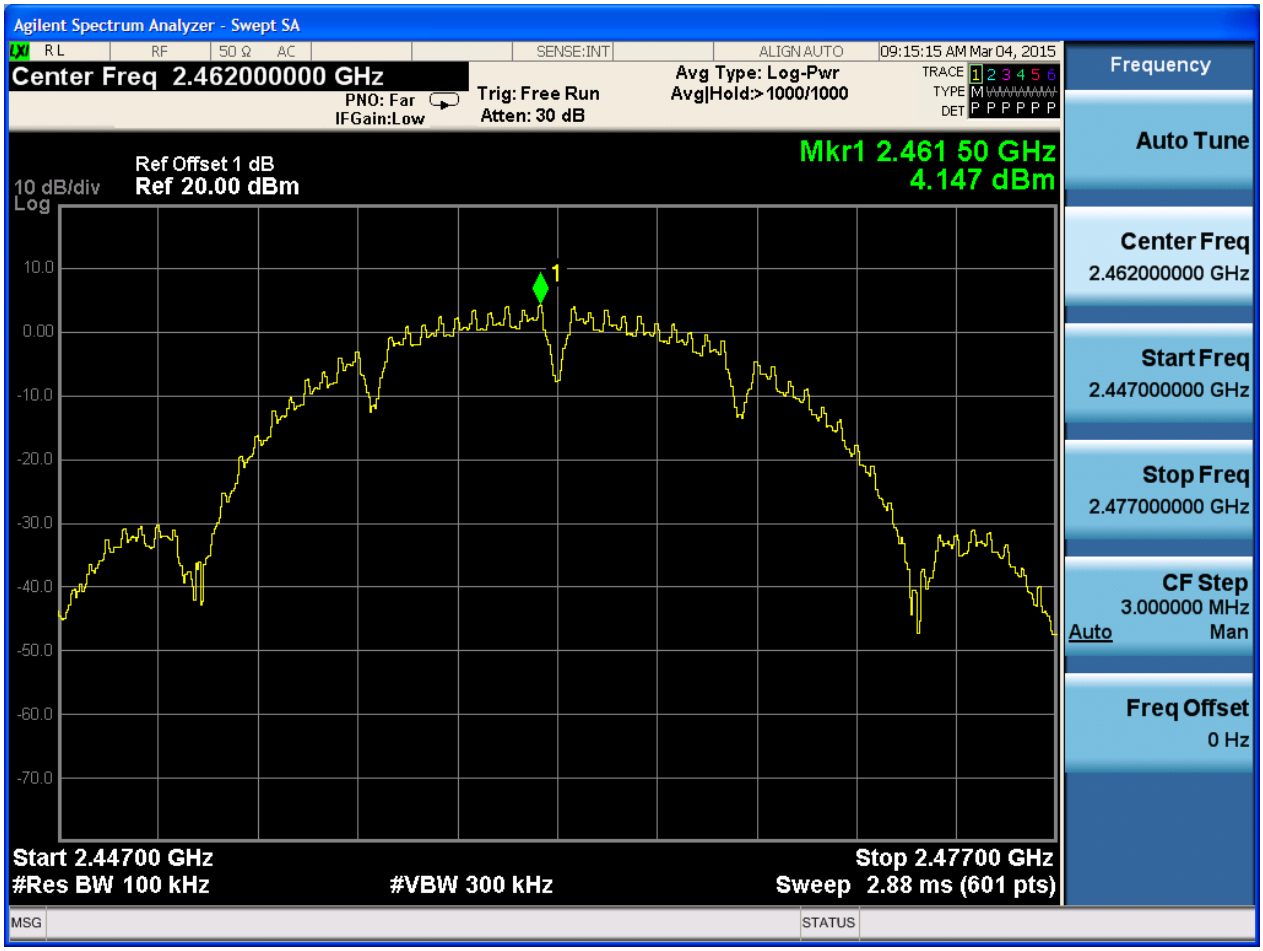

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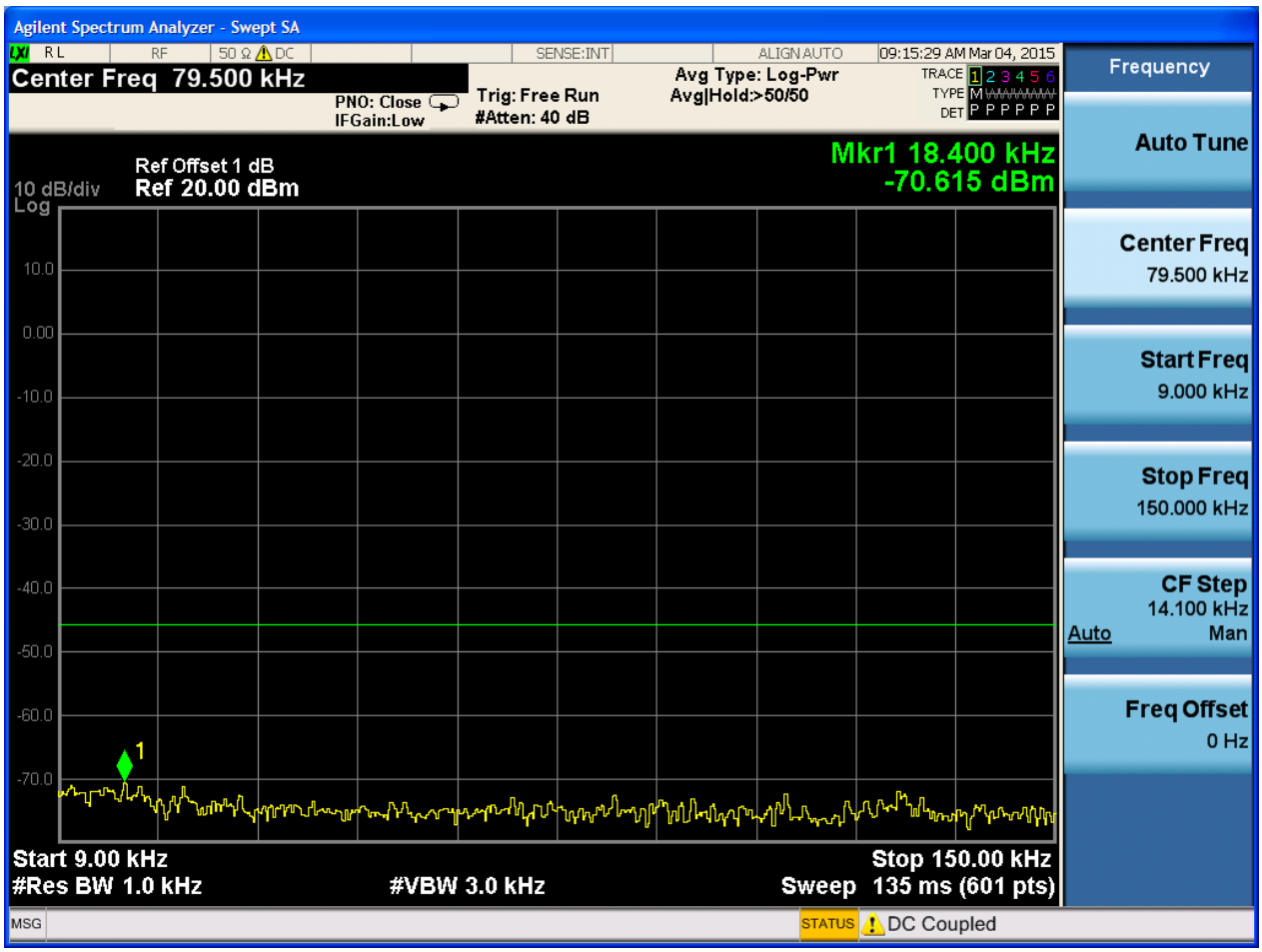

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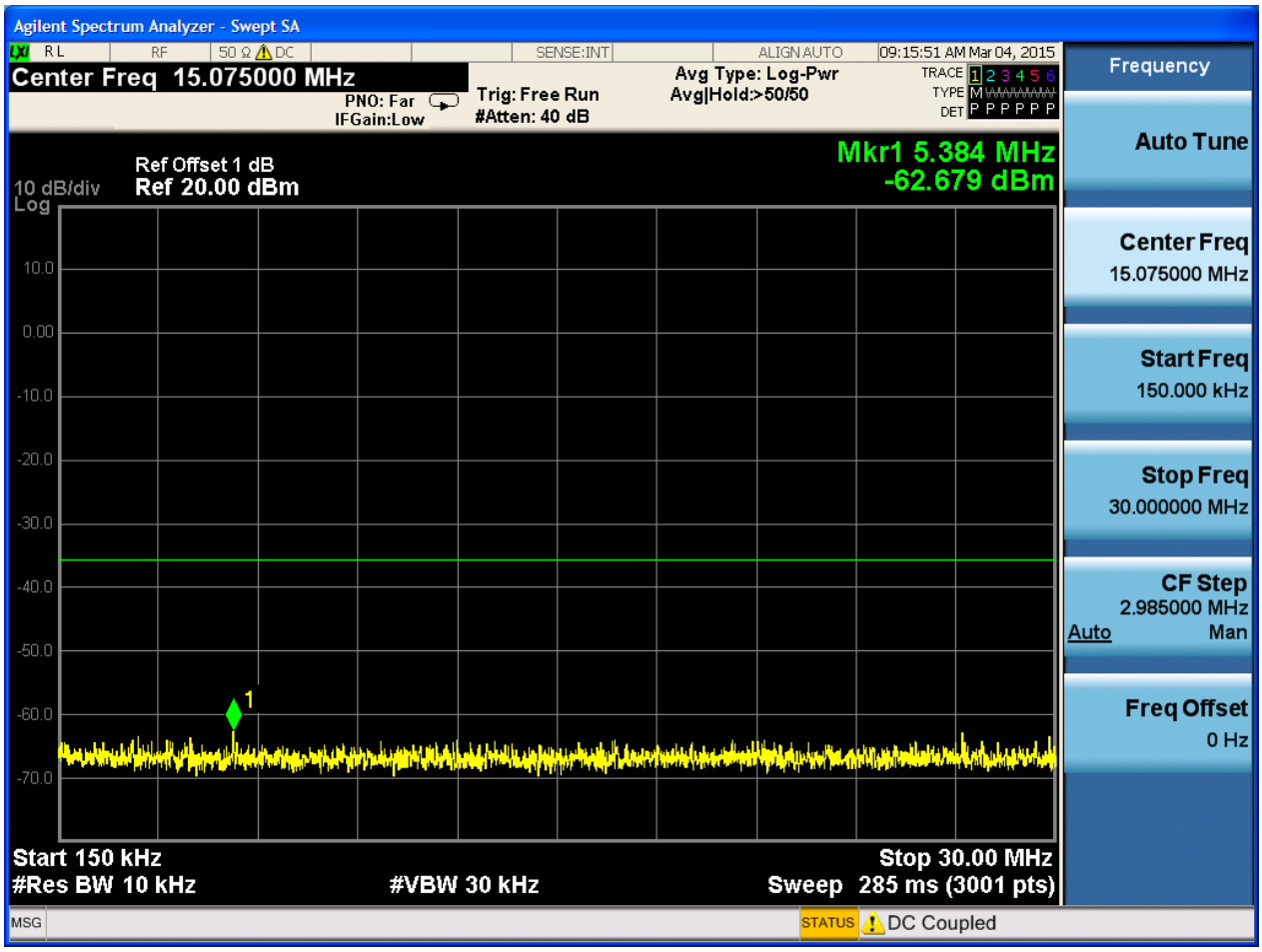

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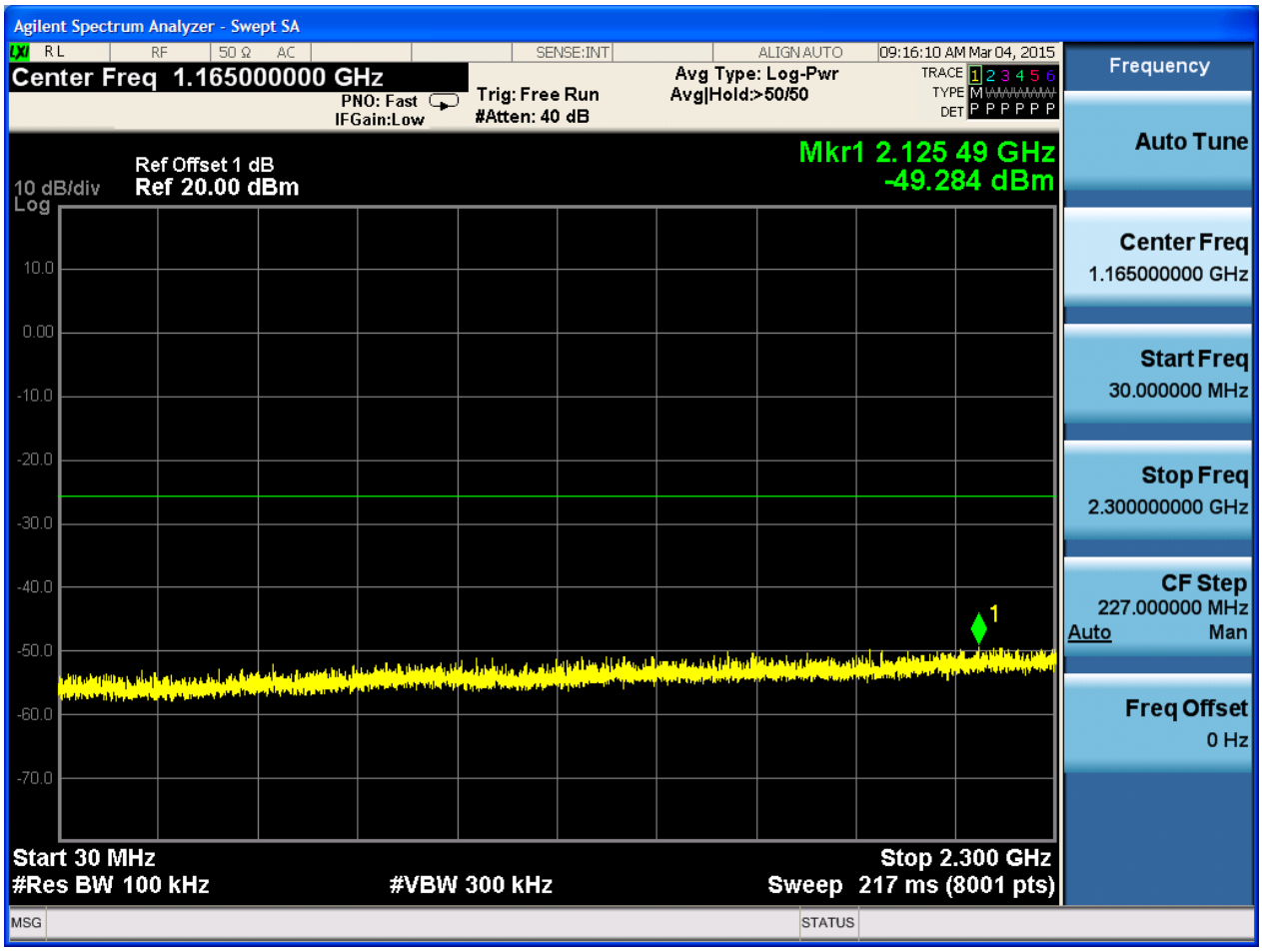

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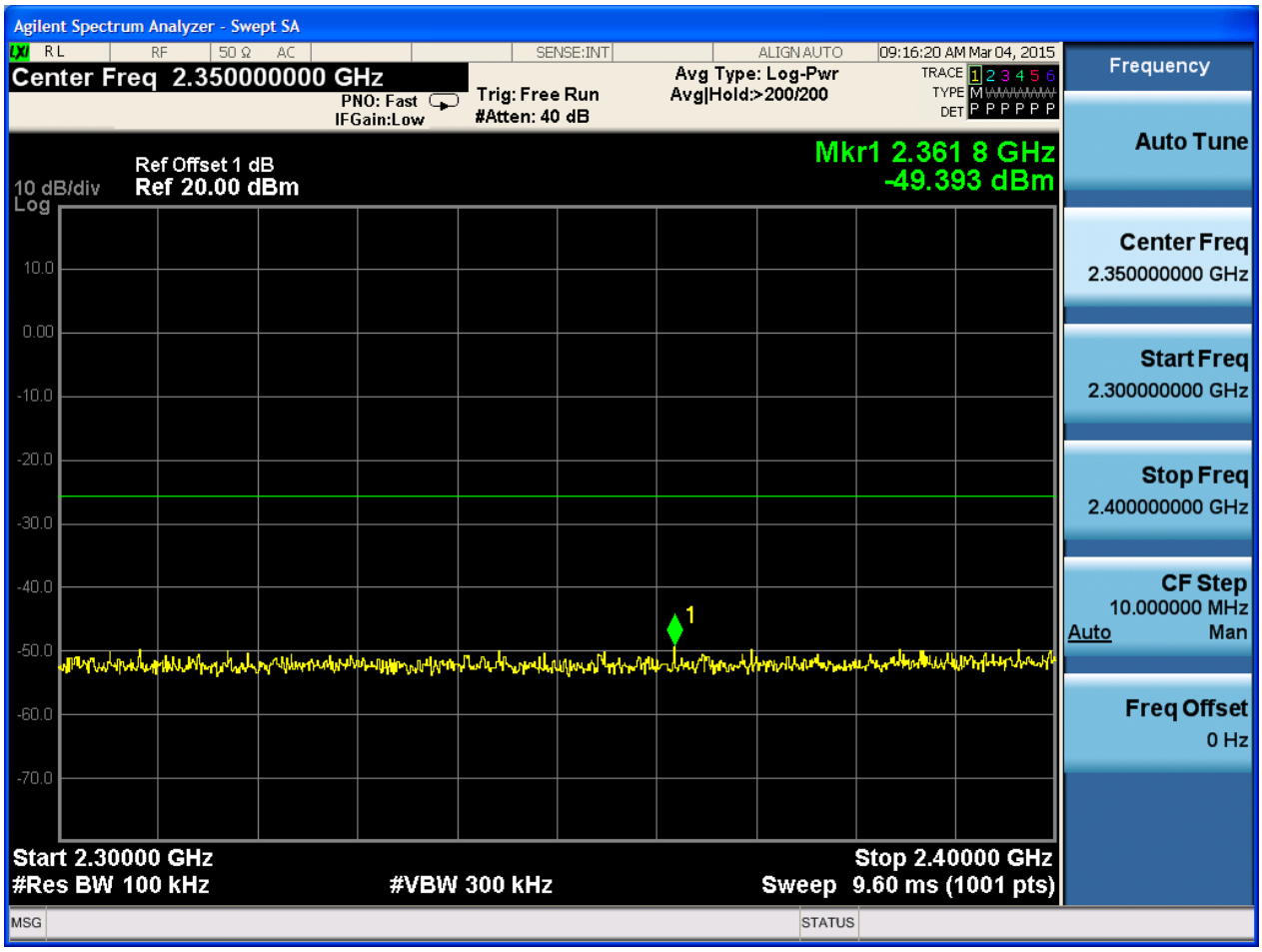

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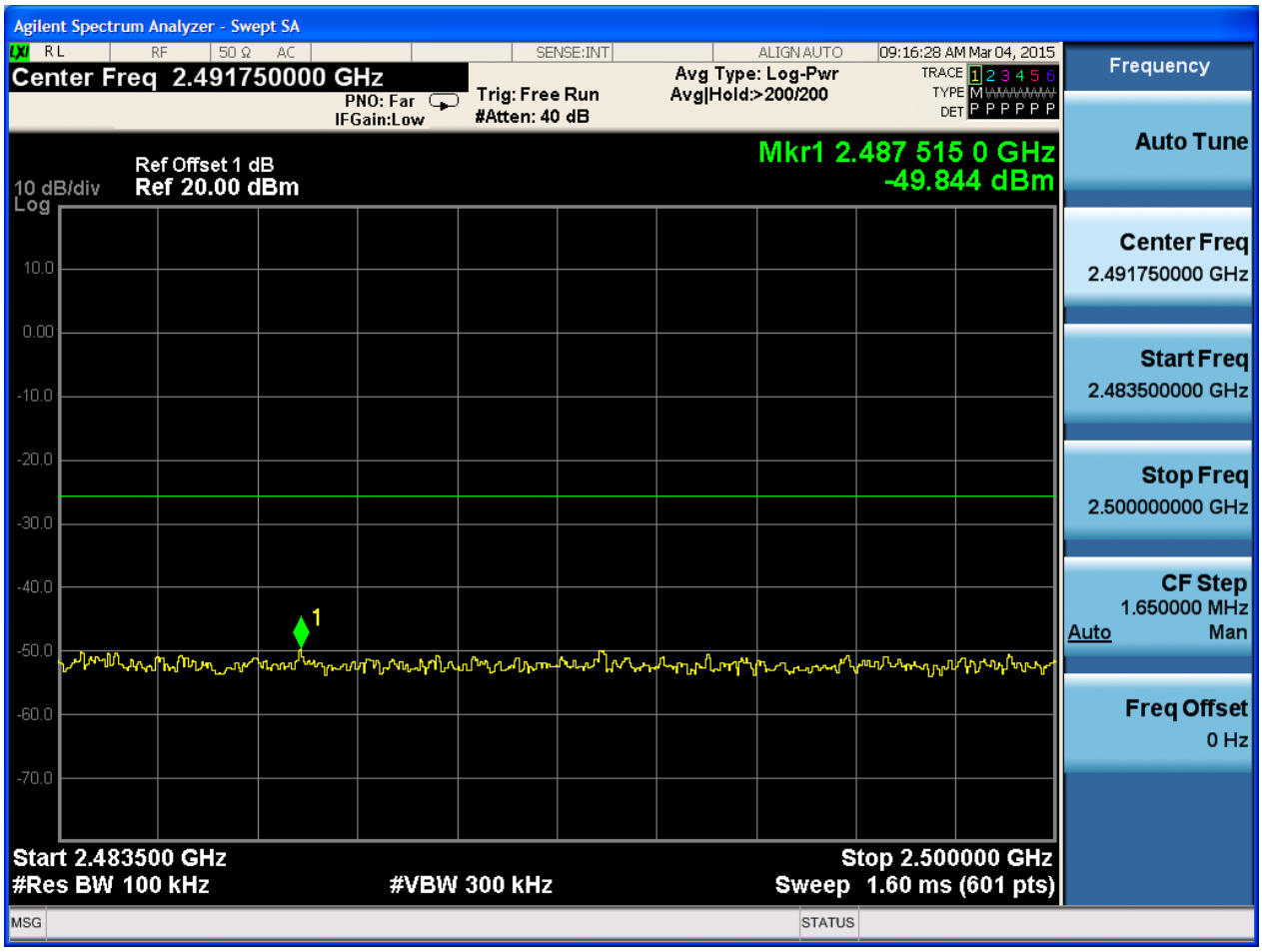

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2.7 11G_L@Ant 1

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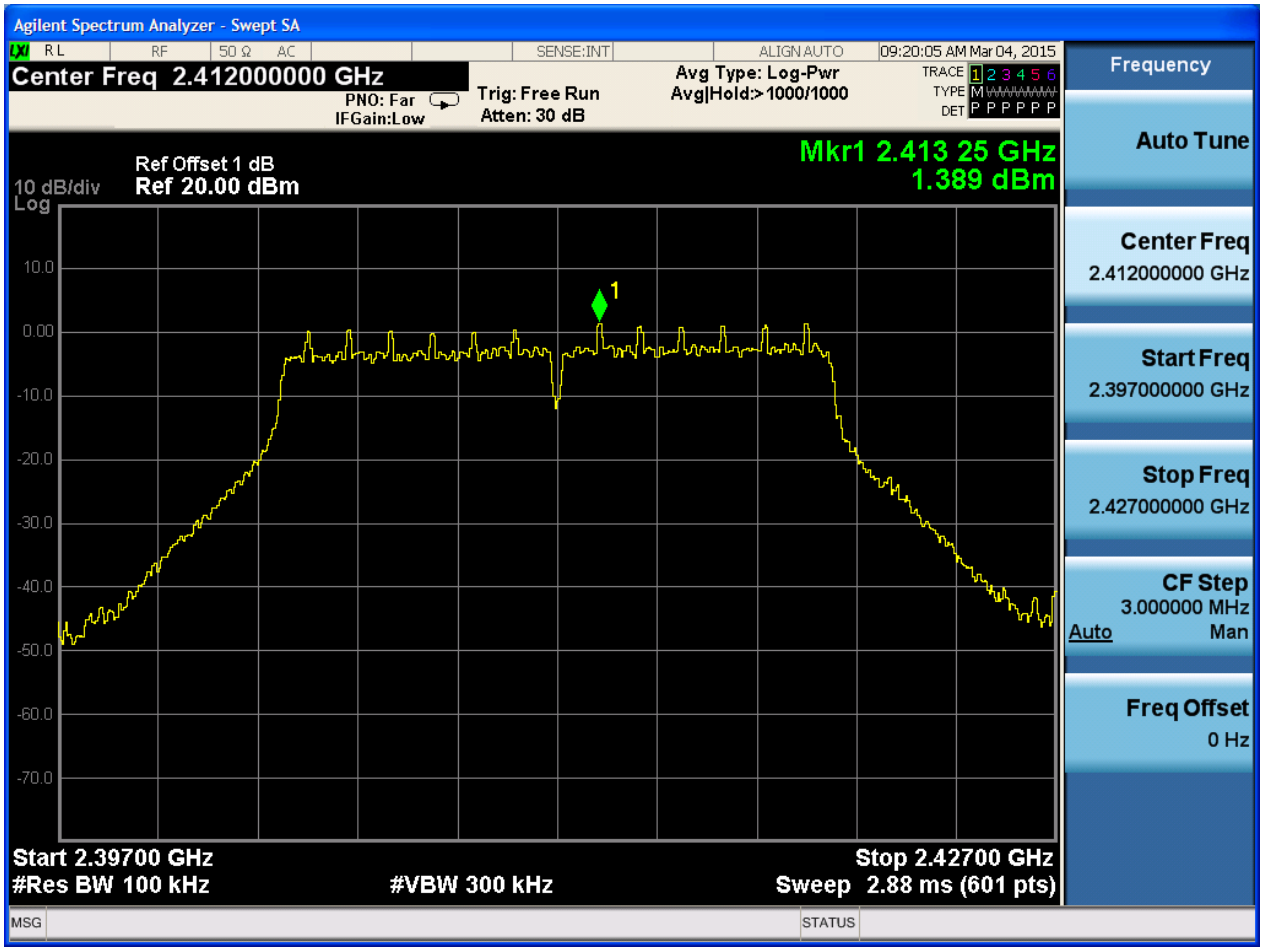

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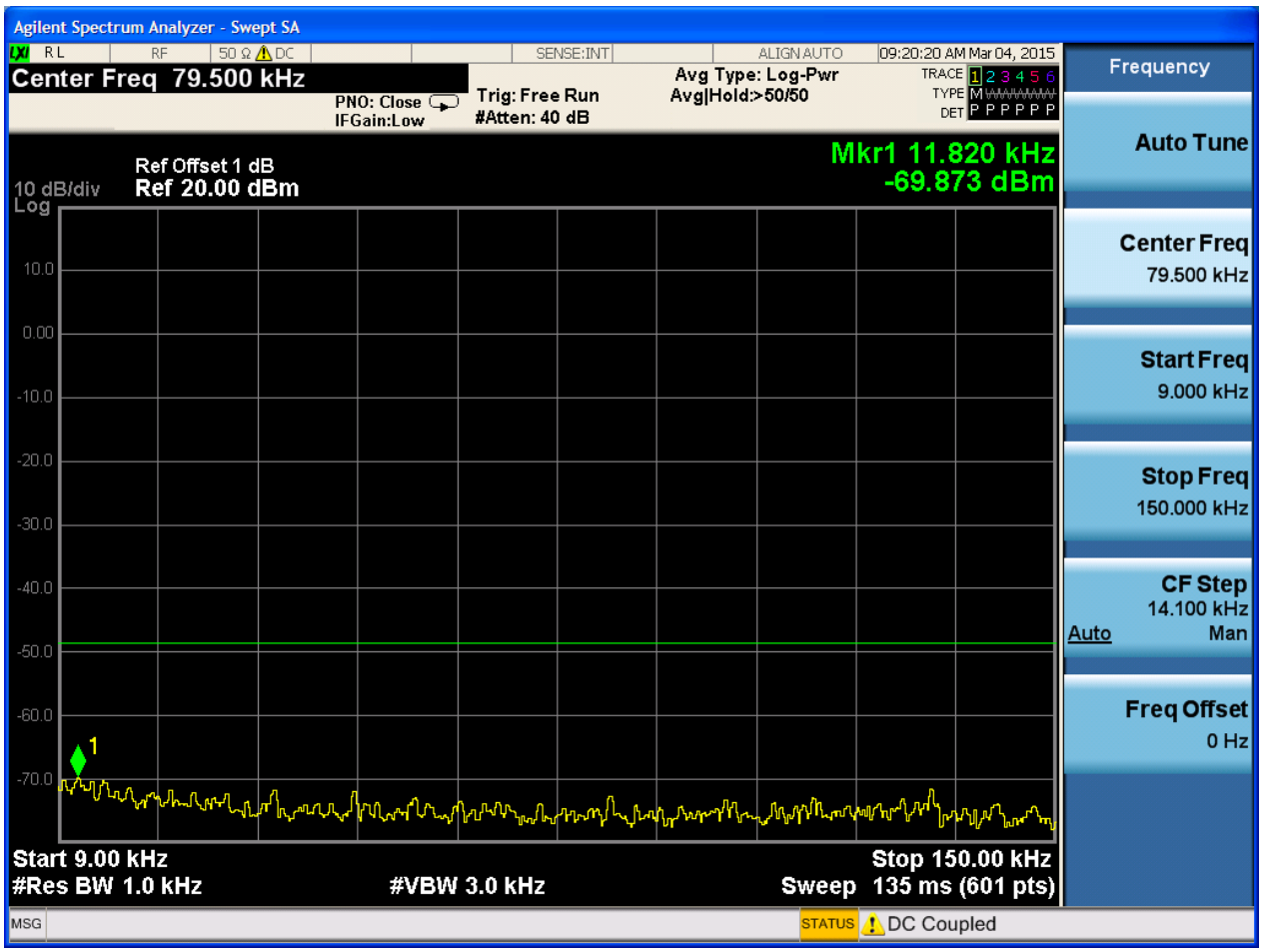

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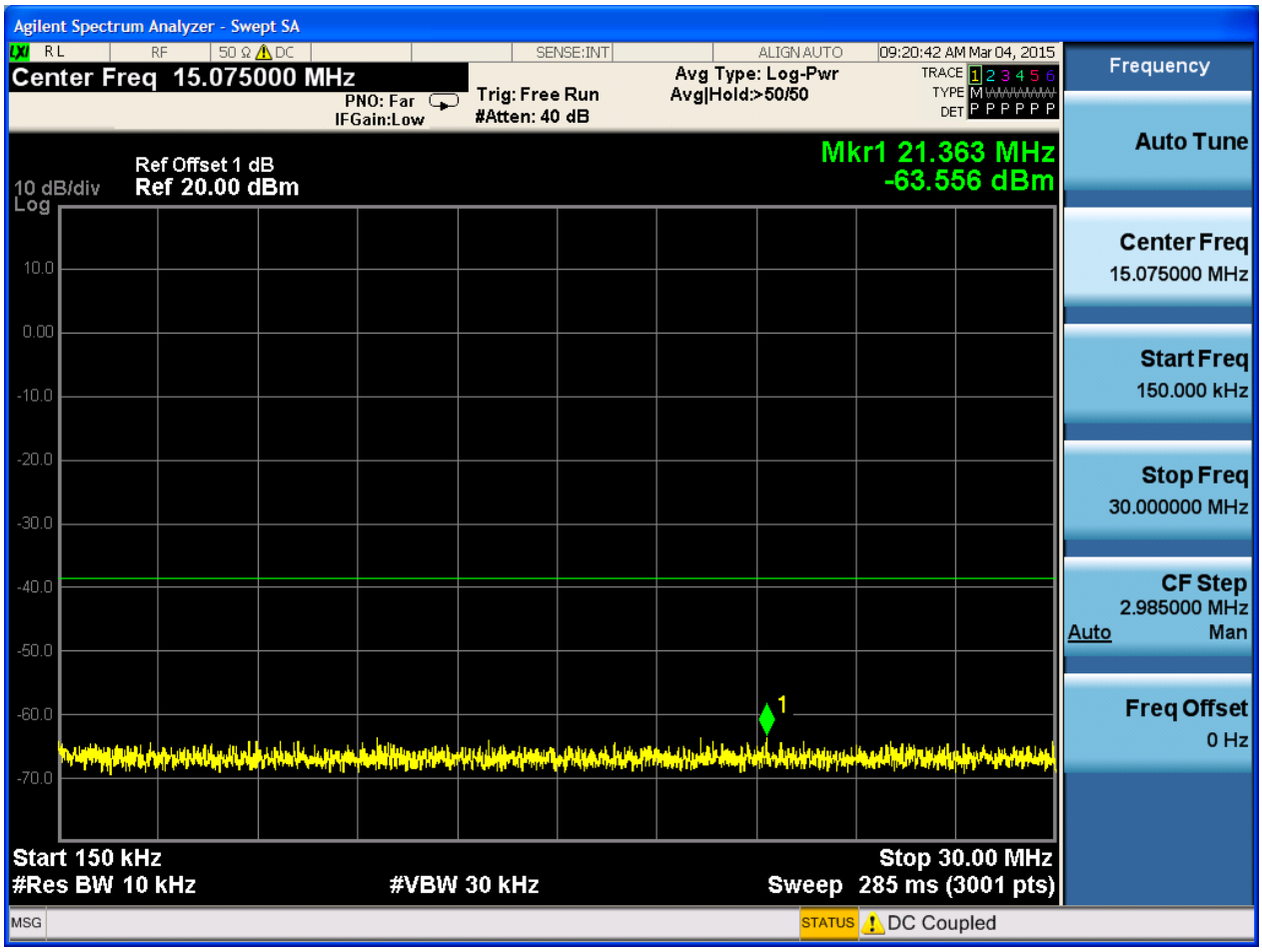

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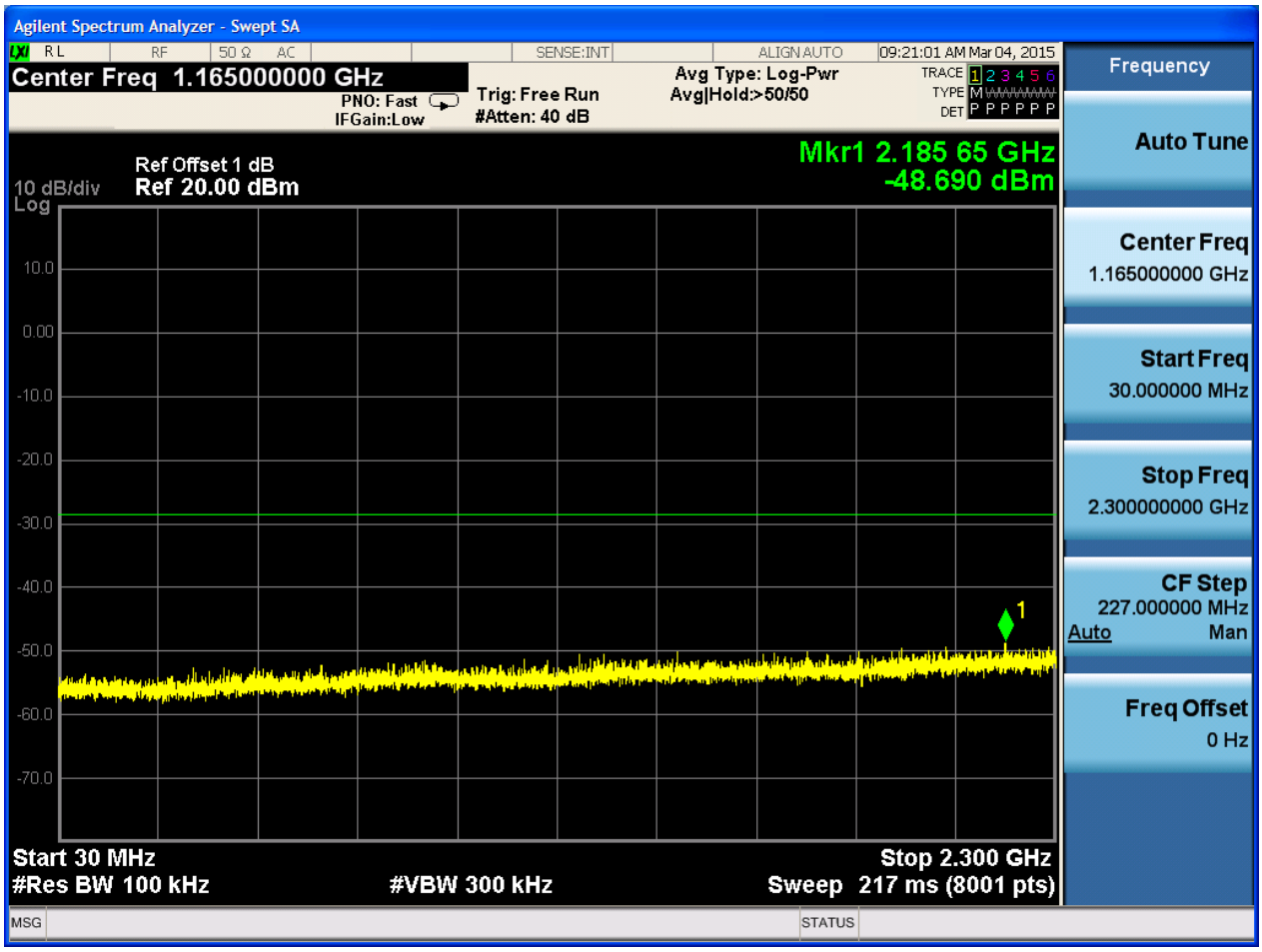

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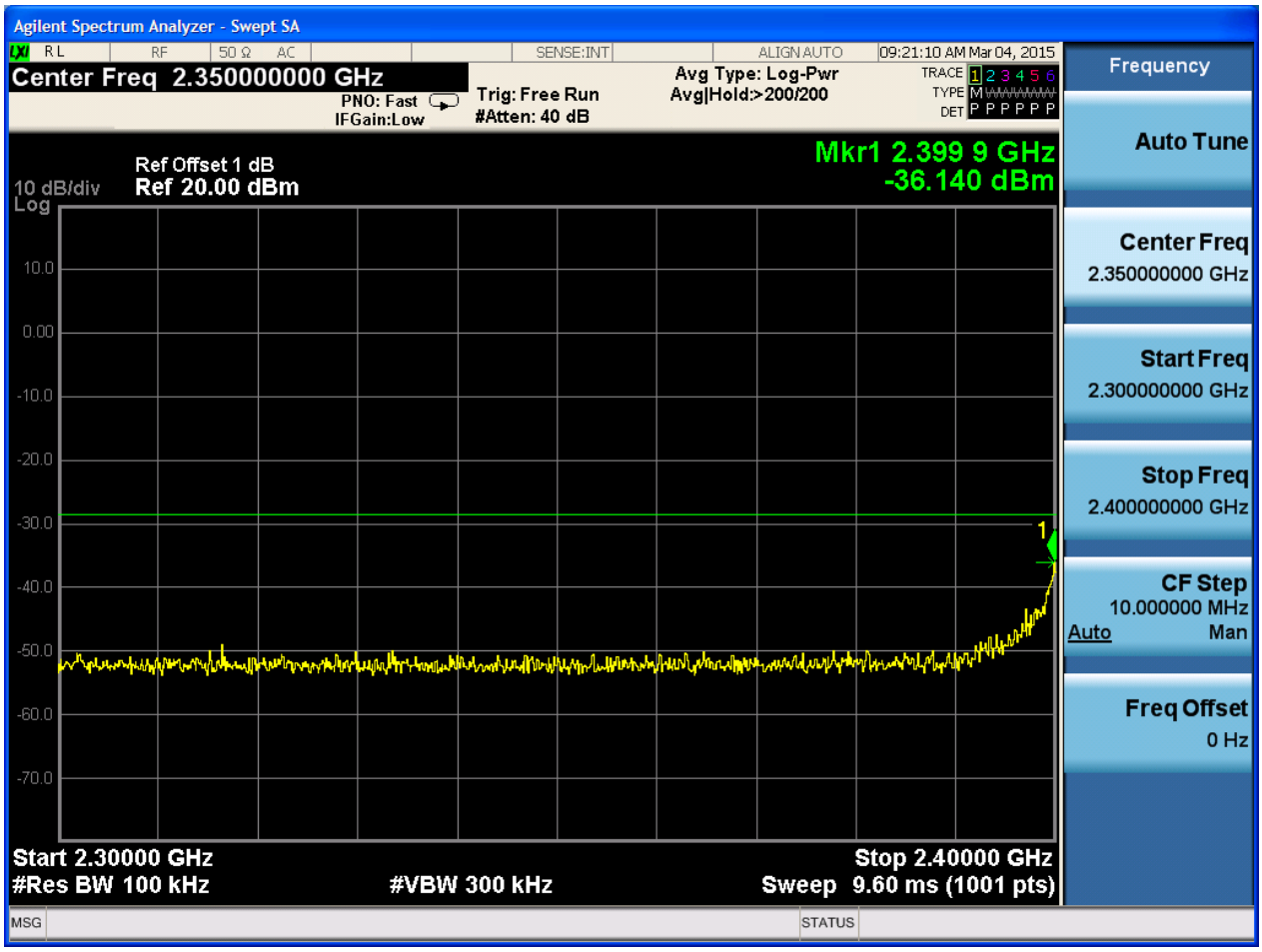

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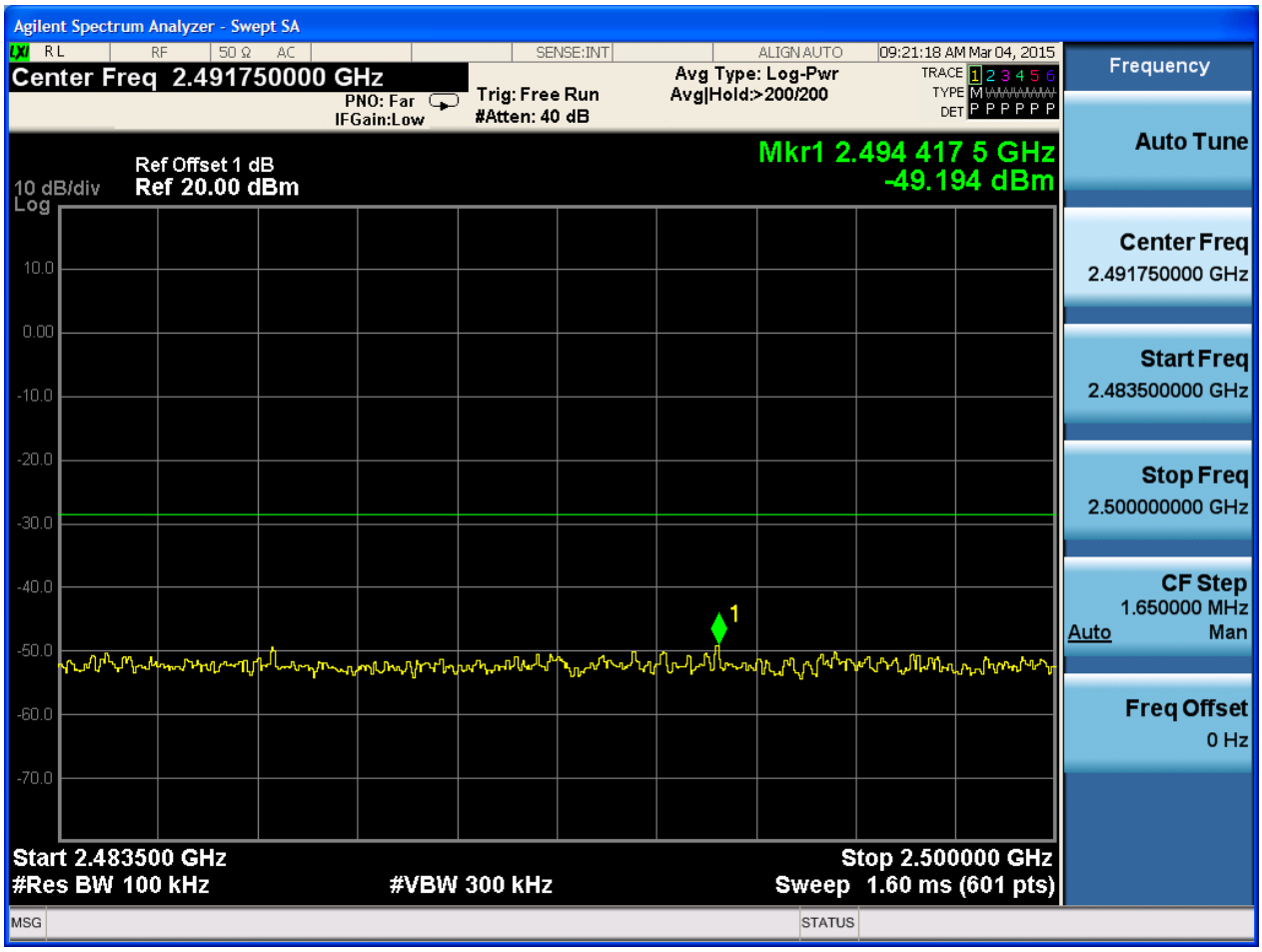

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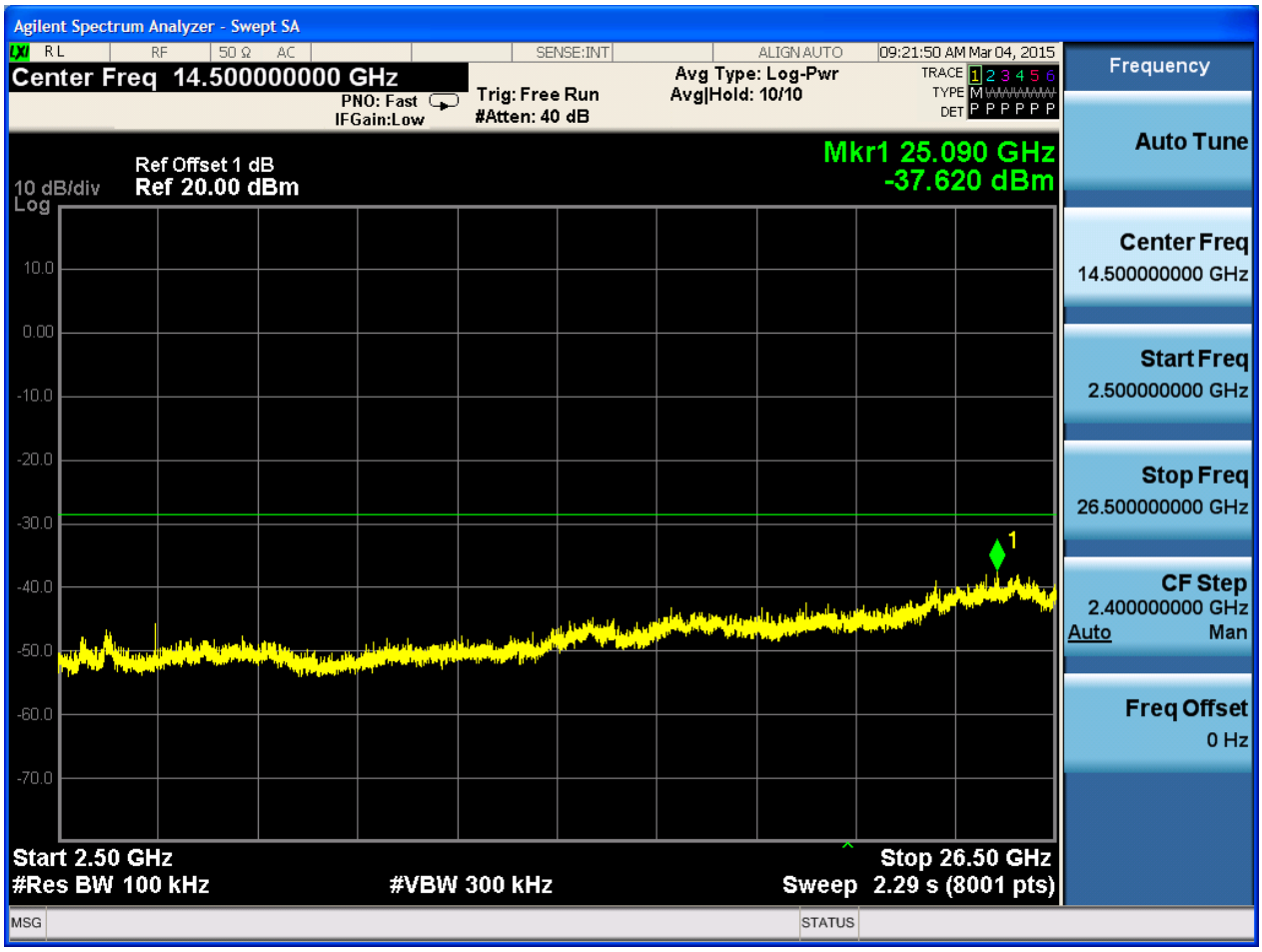

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2.8 11G_L@Ant 2

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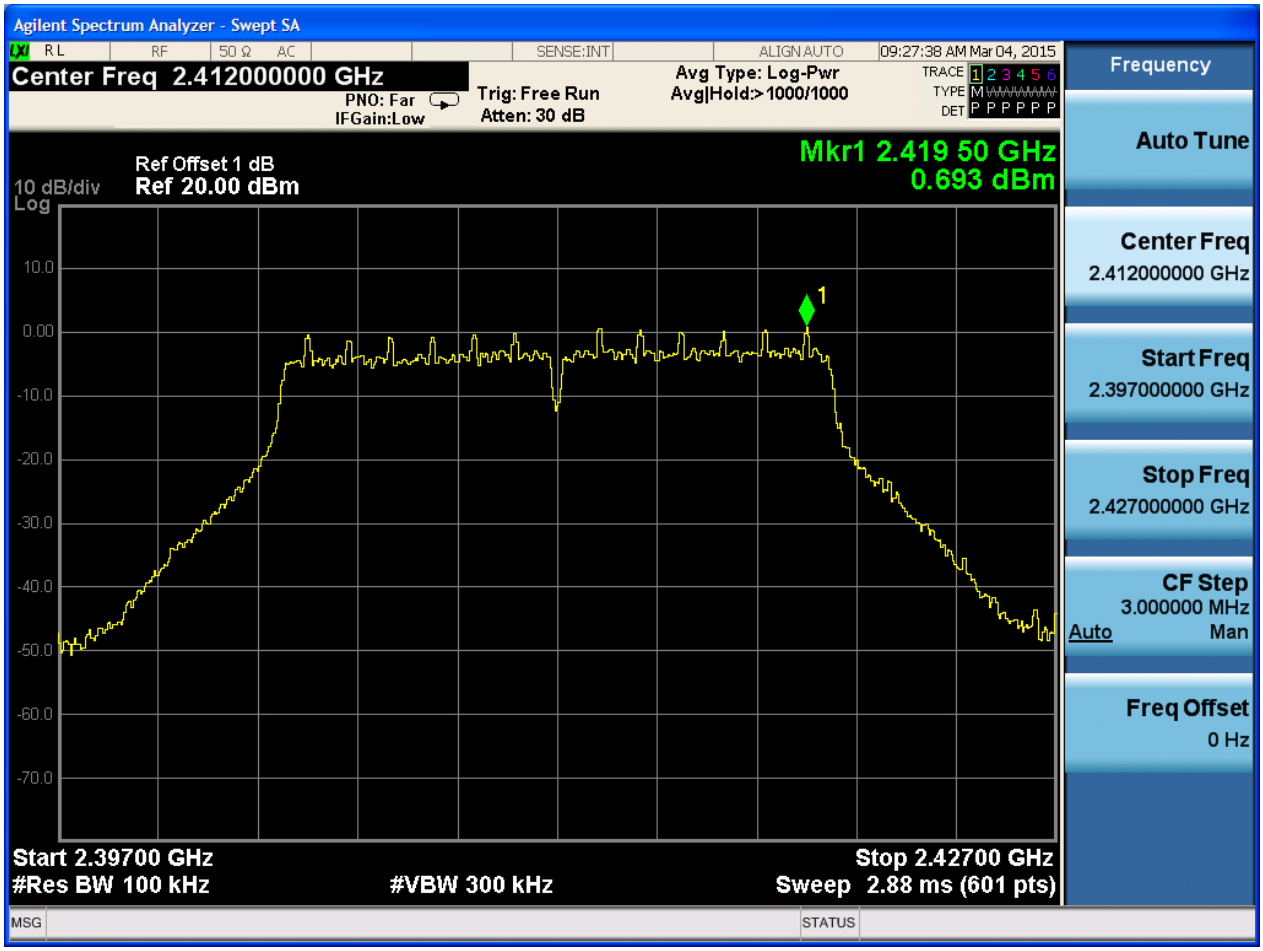

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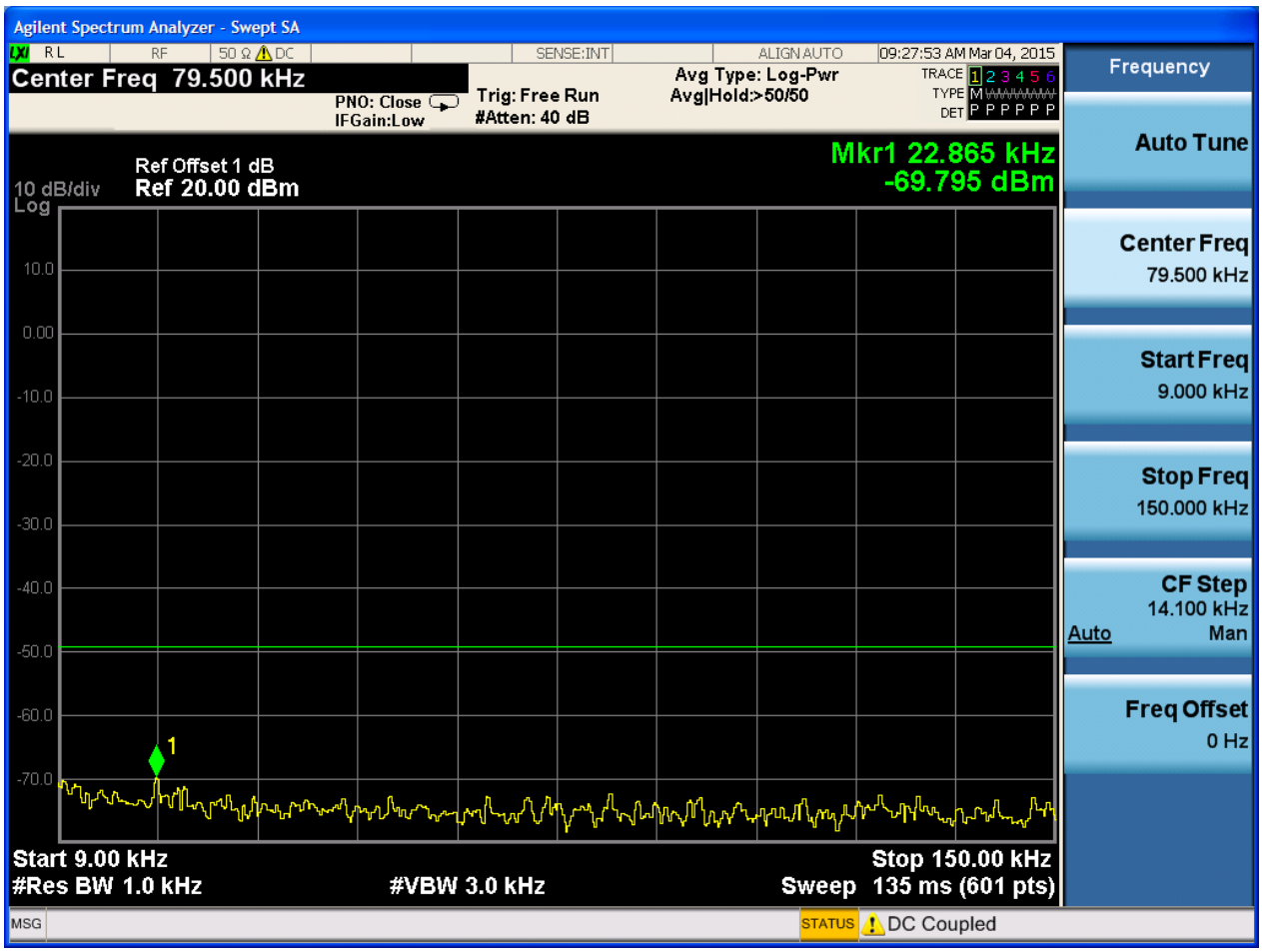

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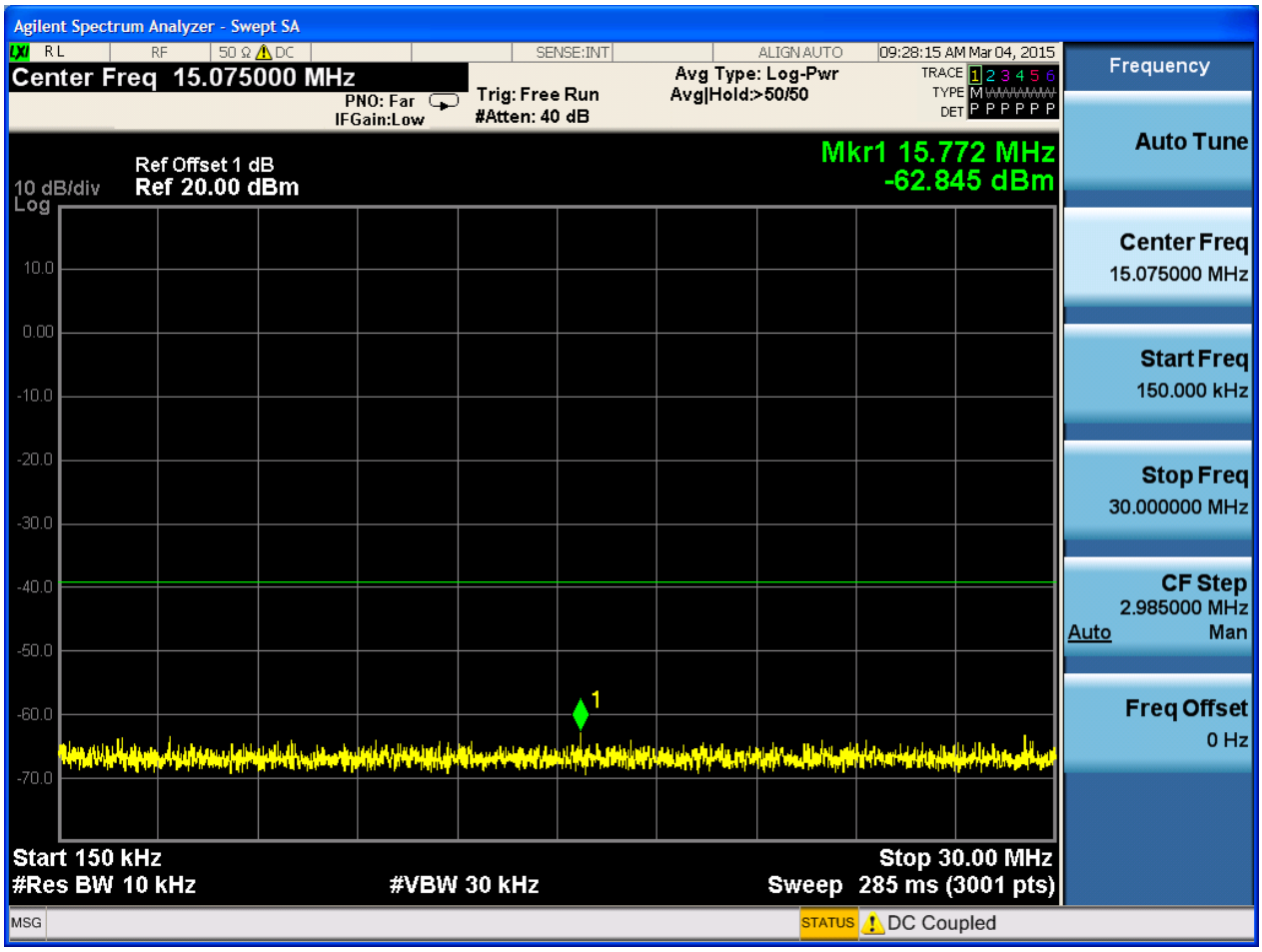

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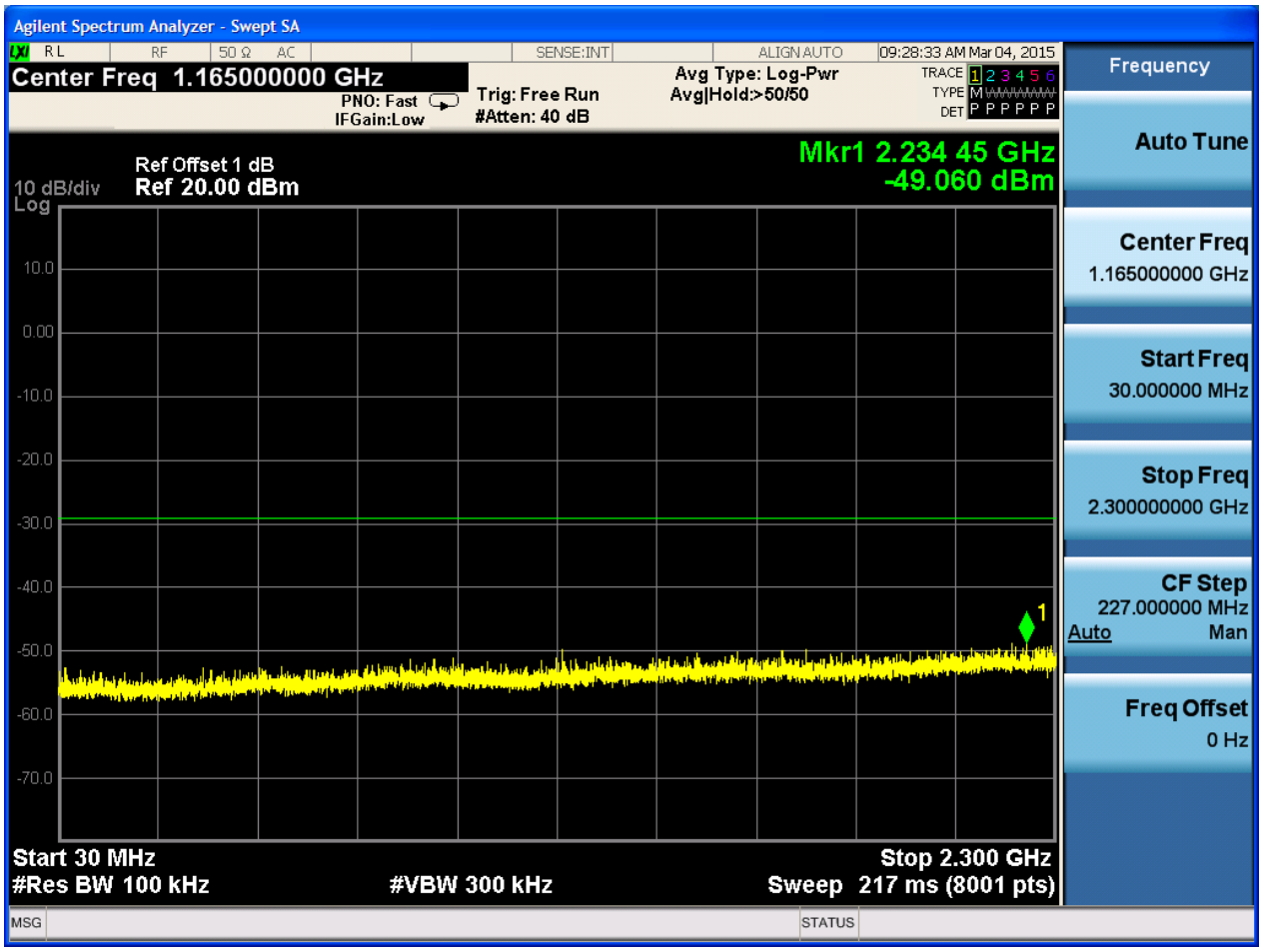

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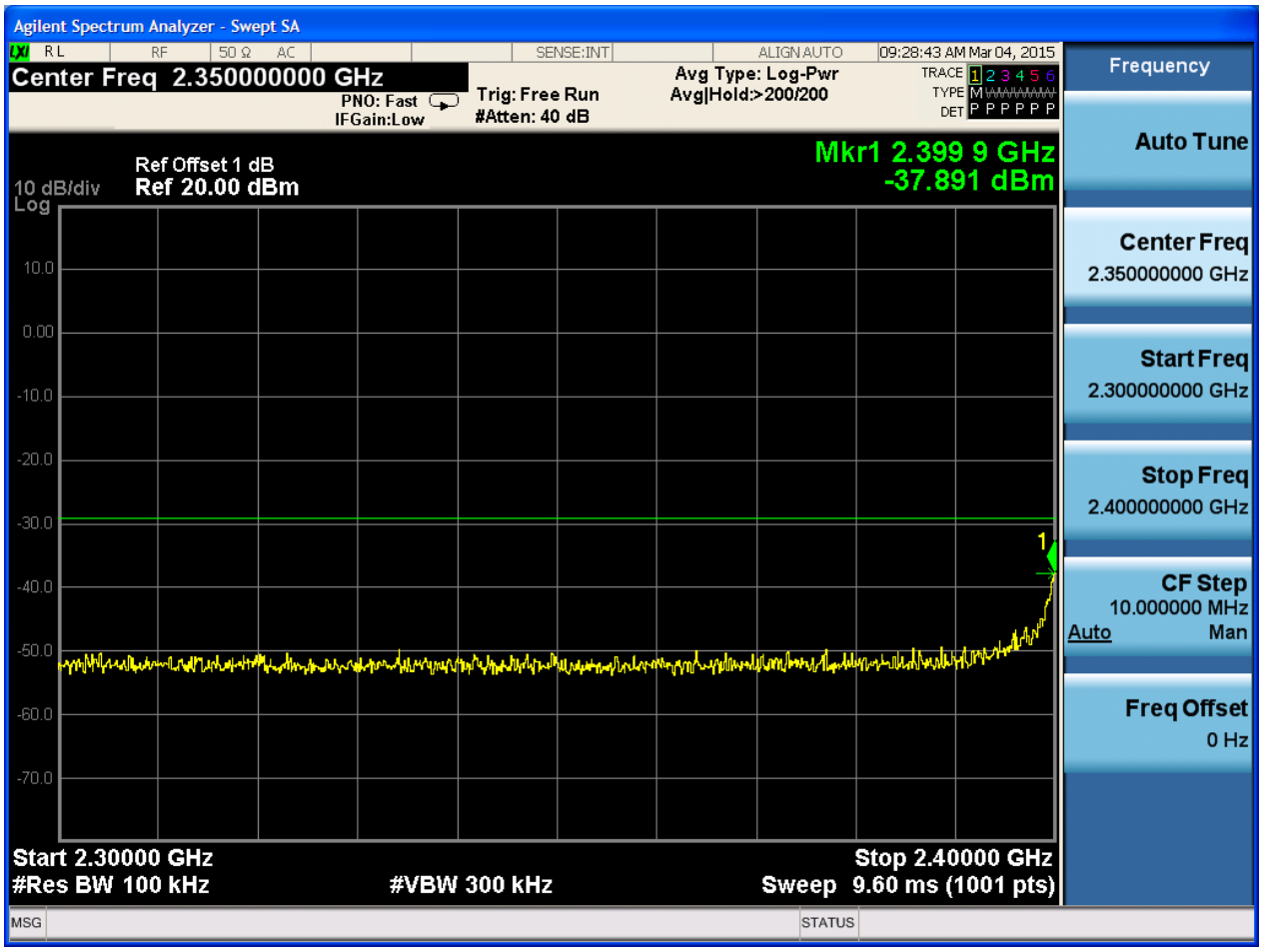

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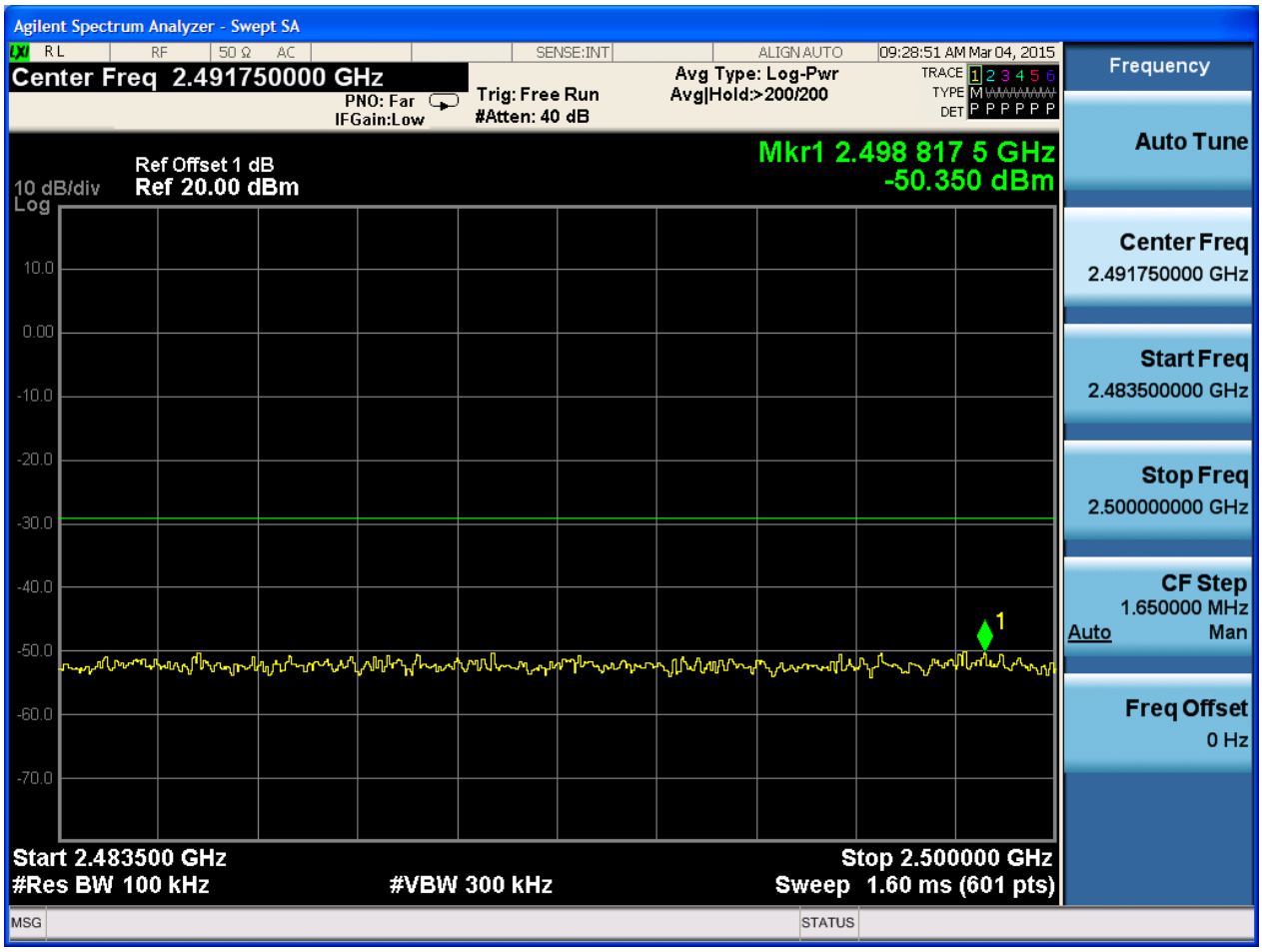

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2.9 11G_M@Ant 1

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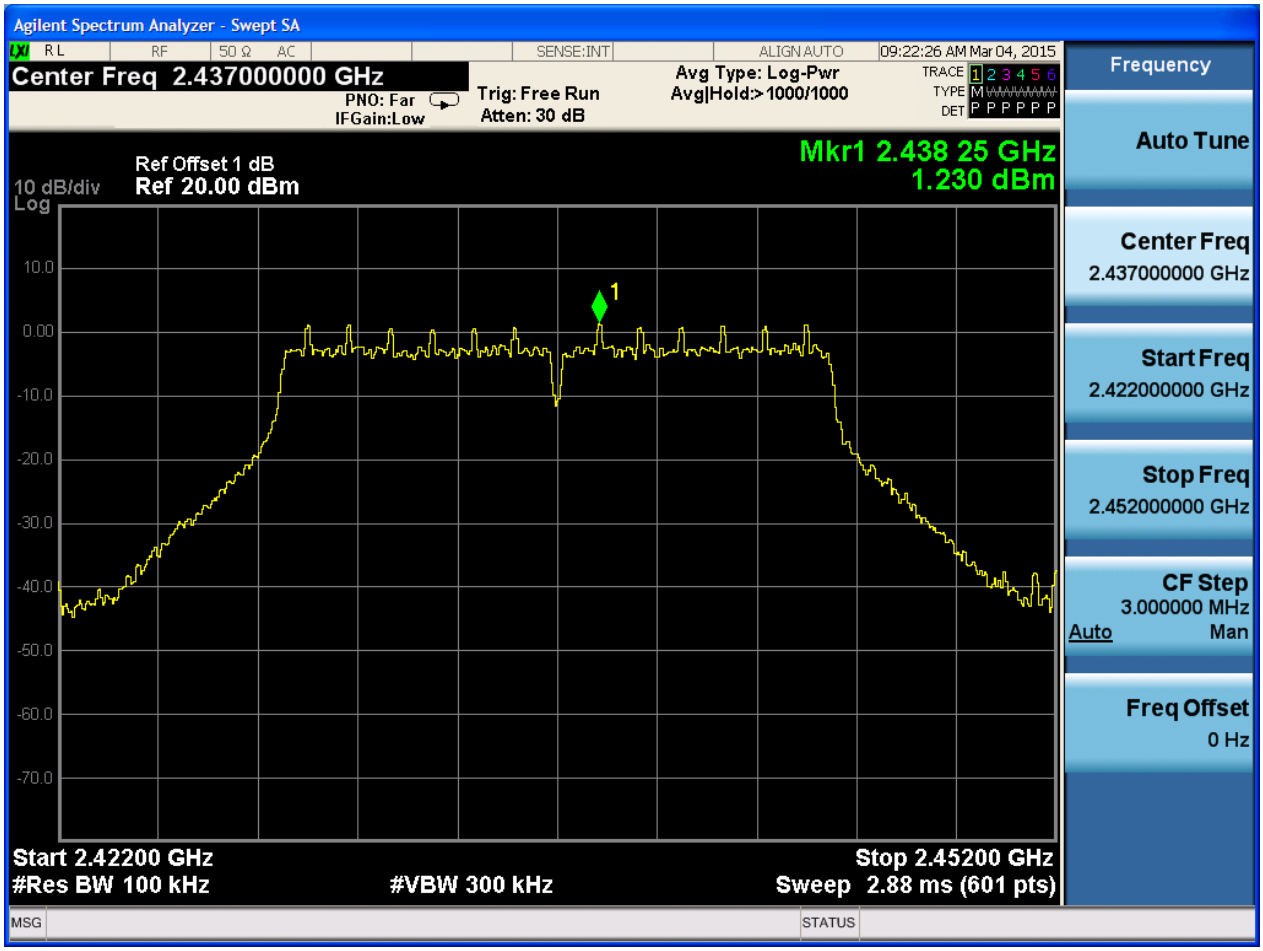

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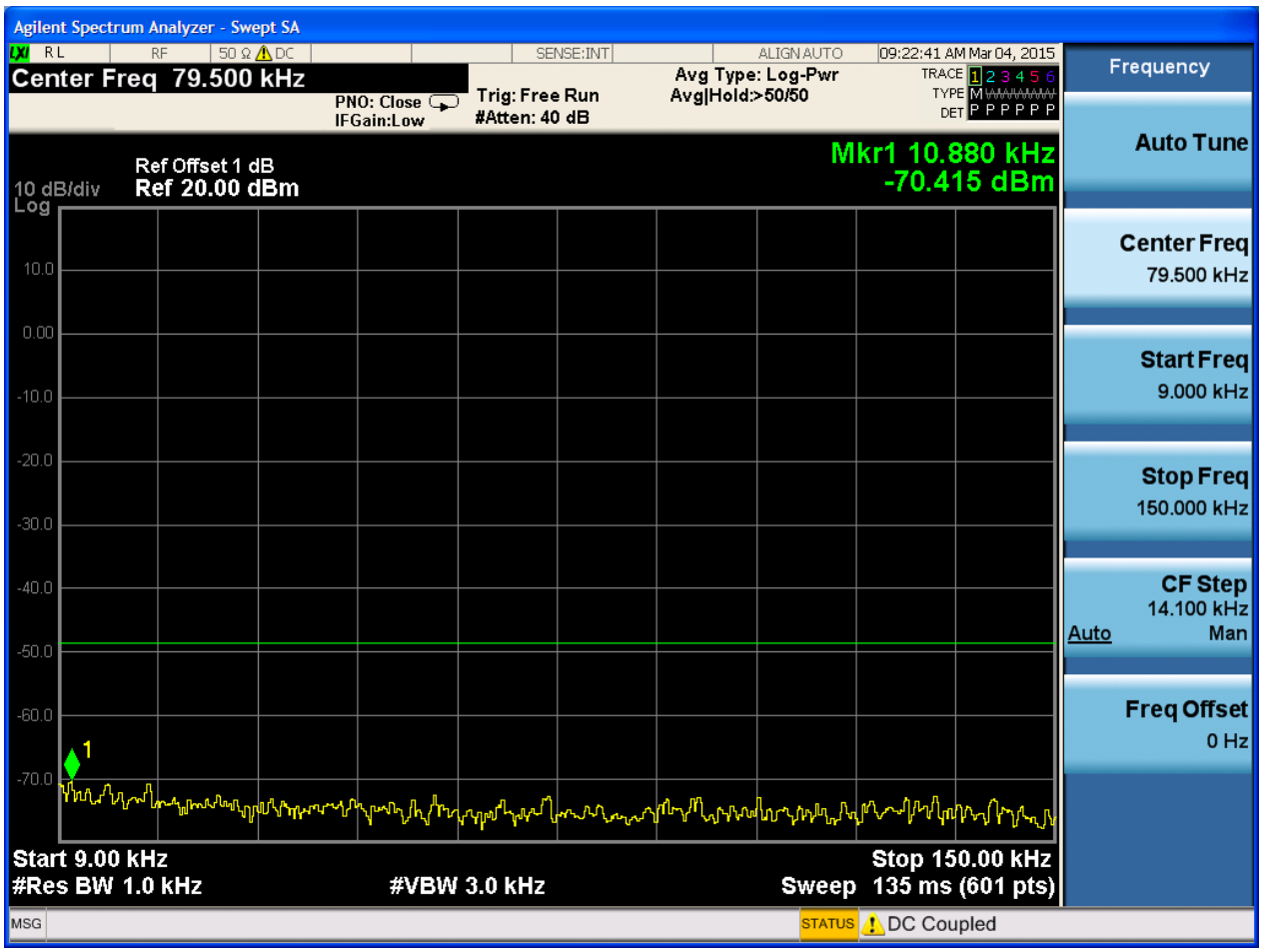

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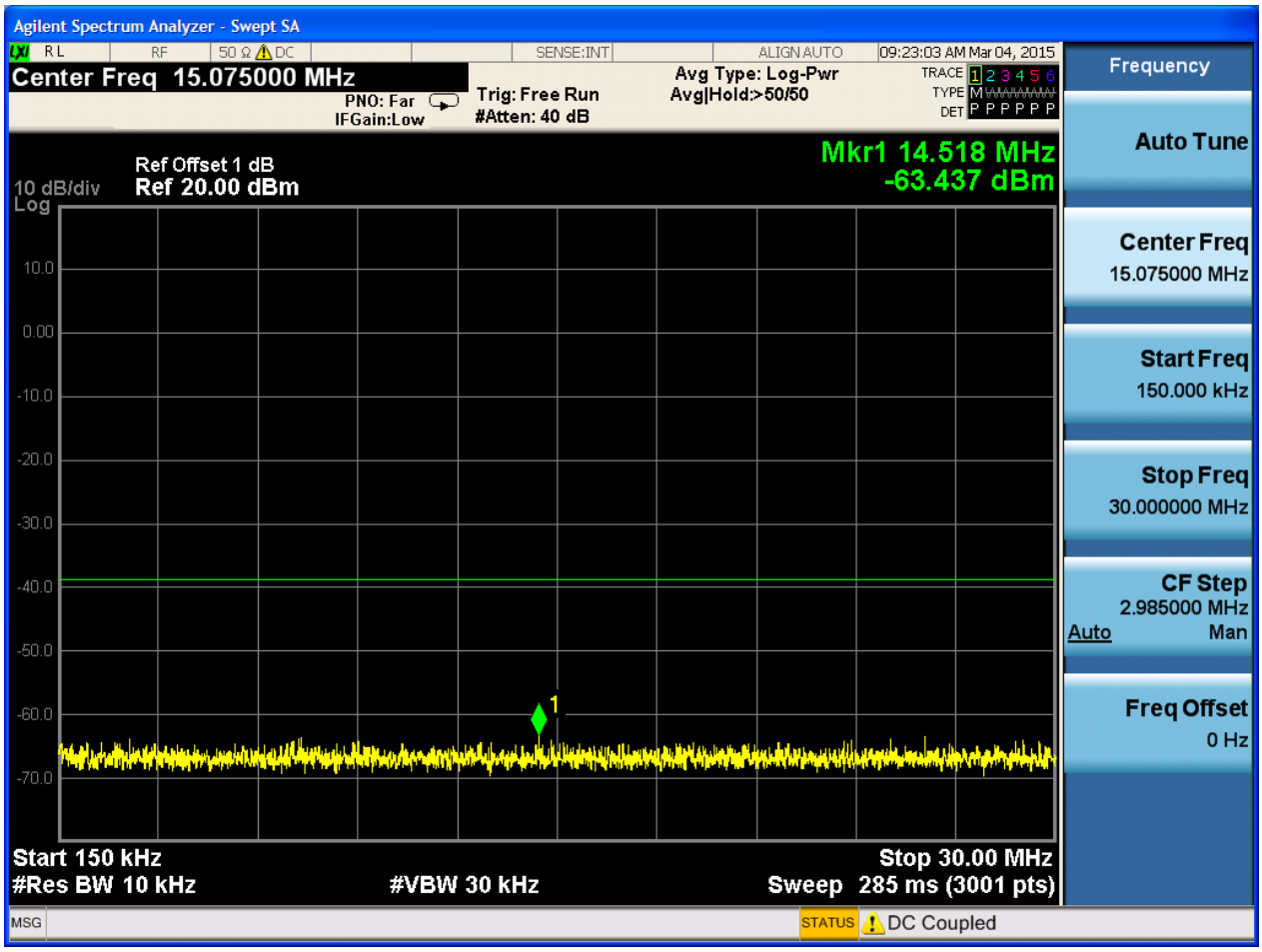

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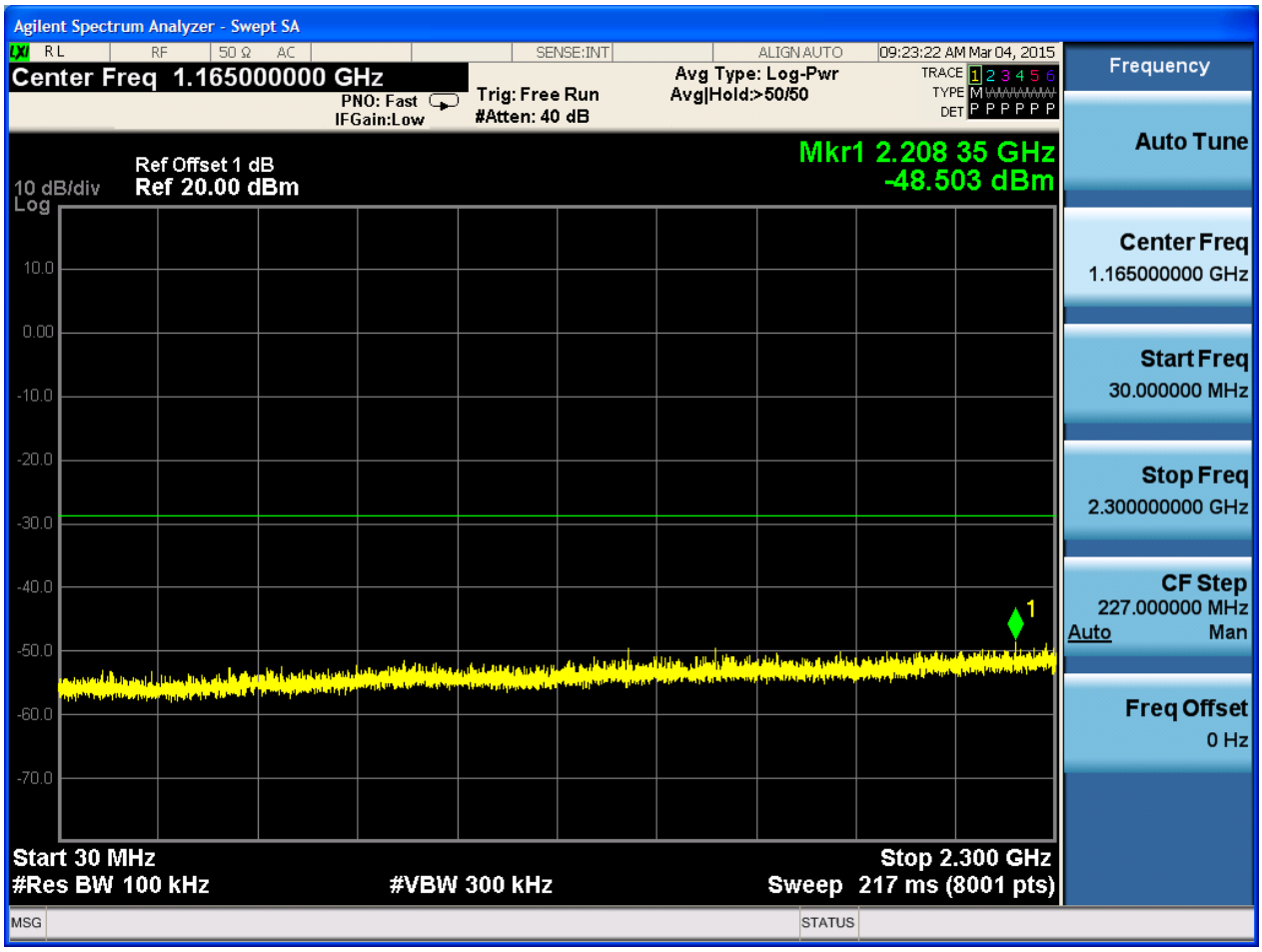

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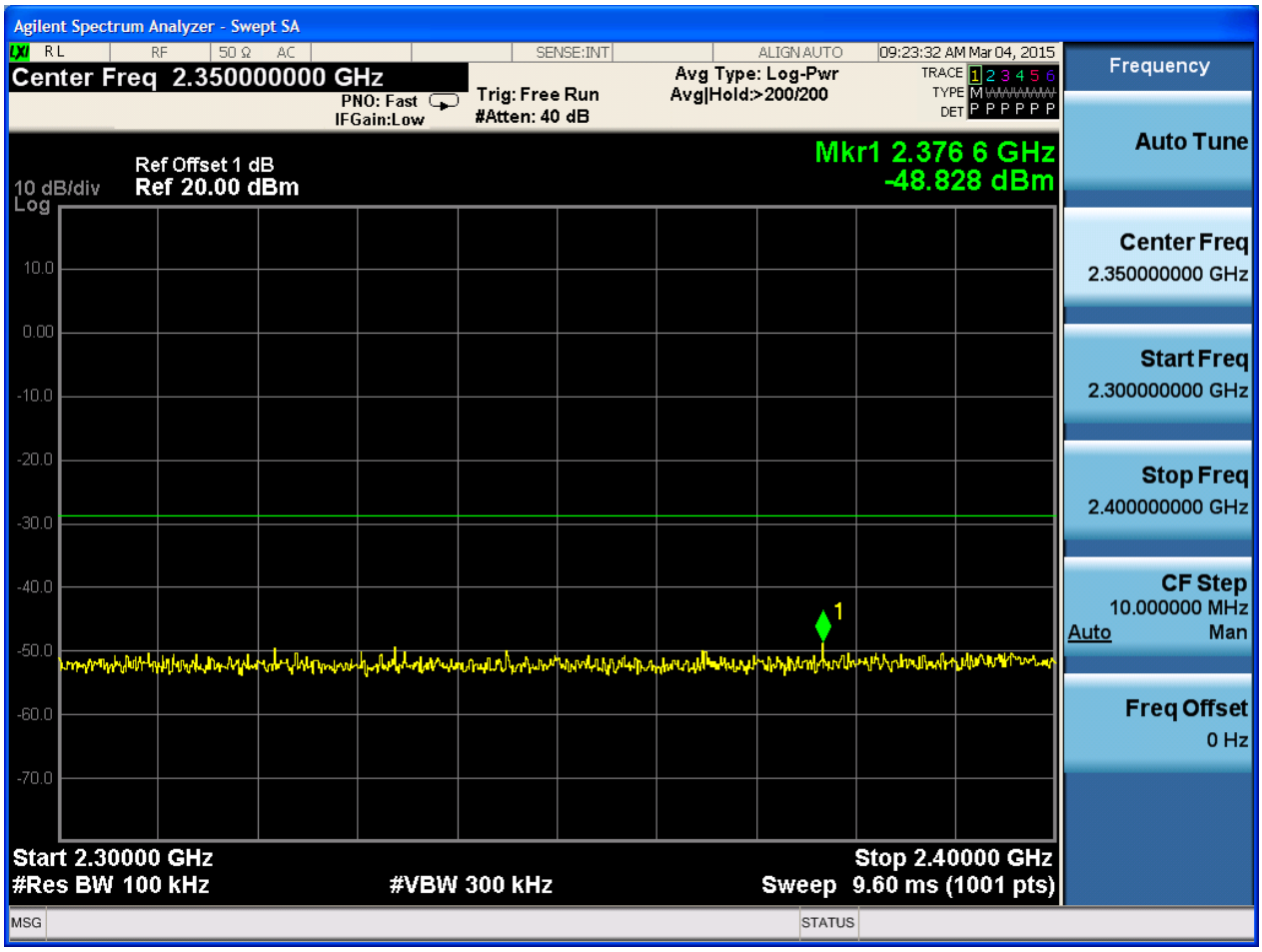

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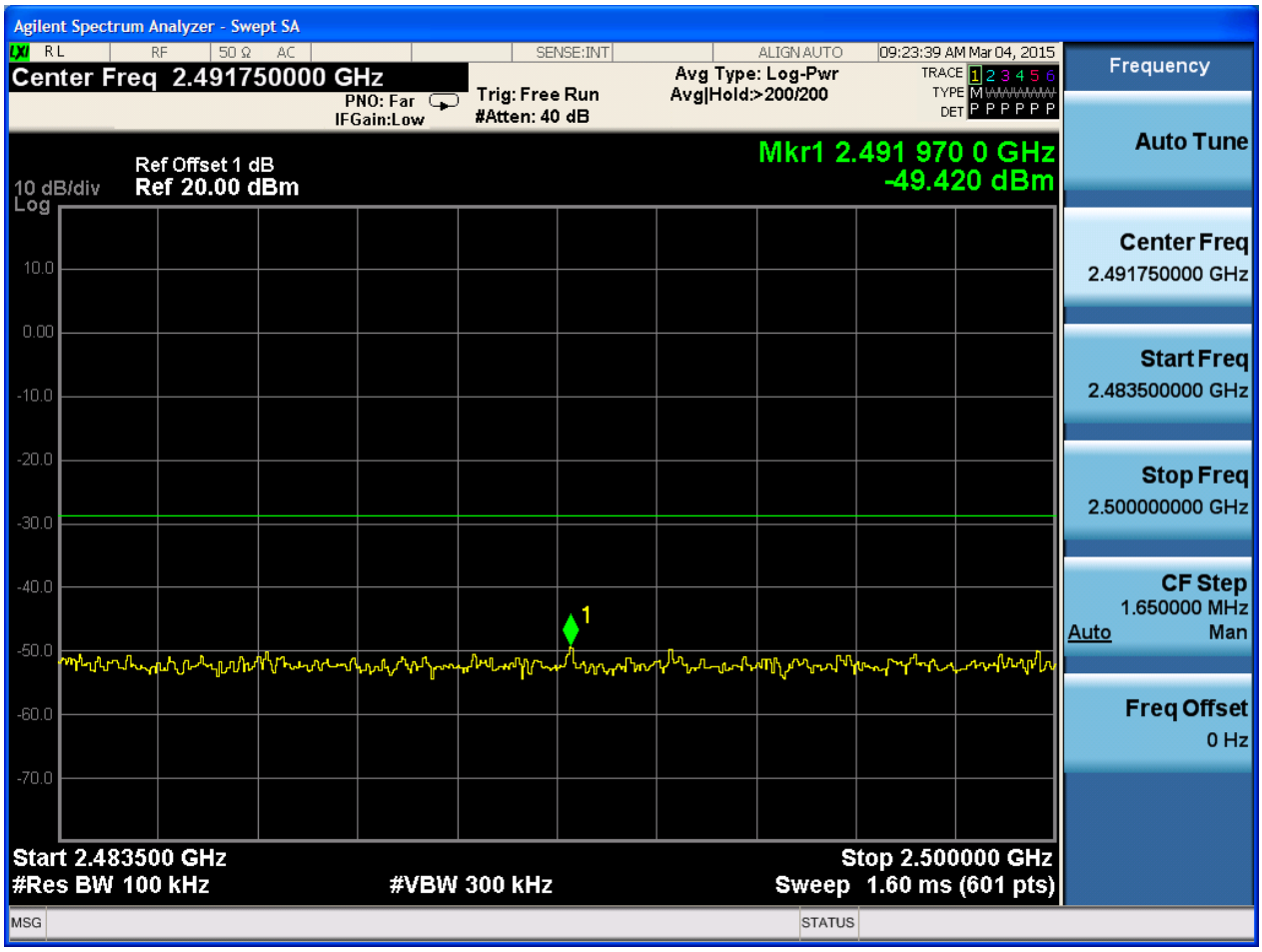

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2.10 11G_M@Ant 2

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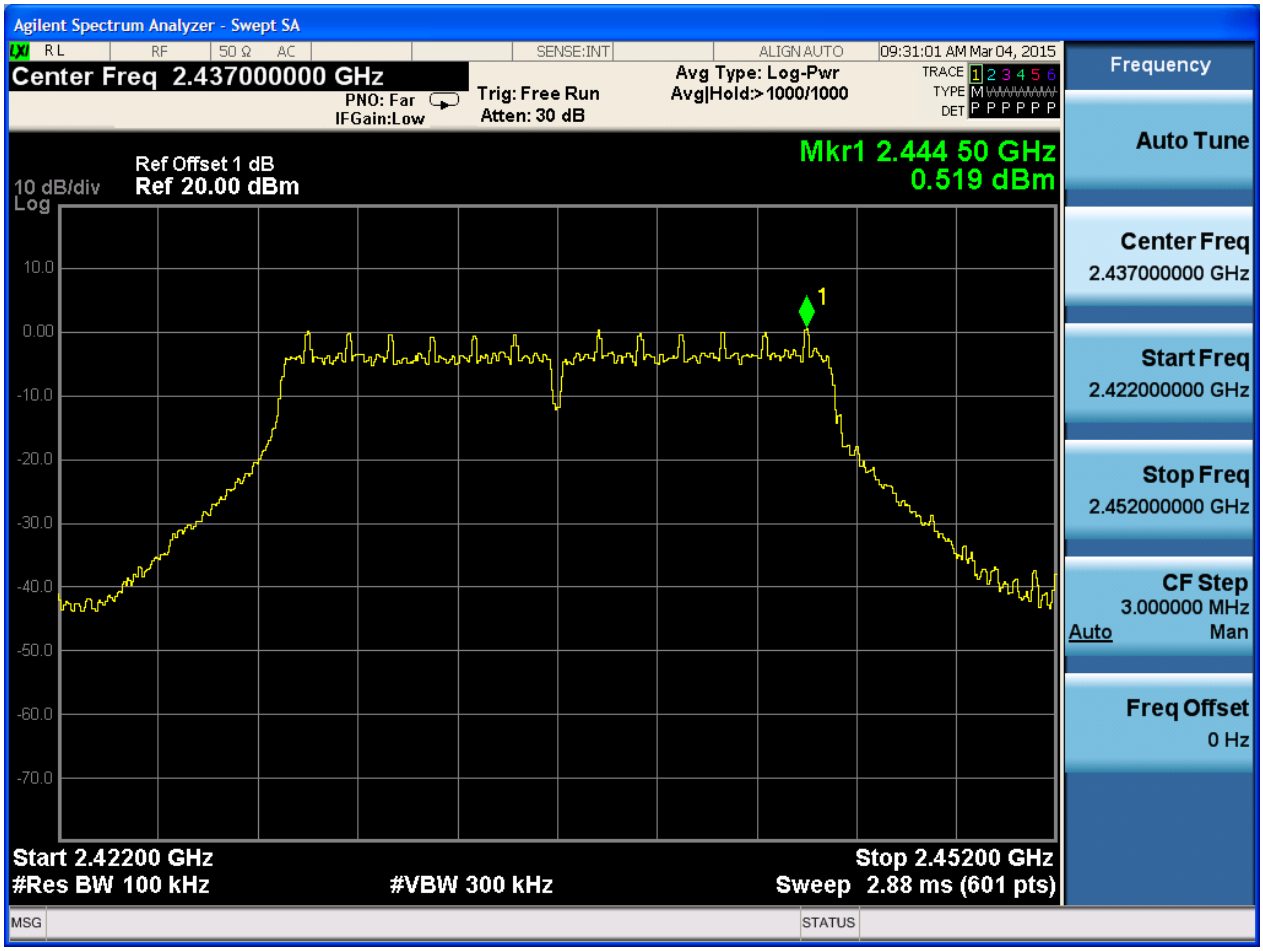

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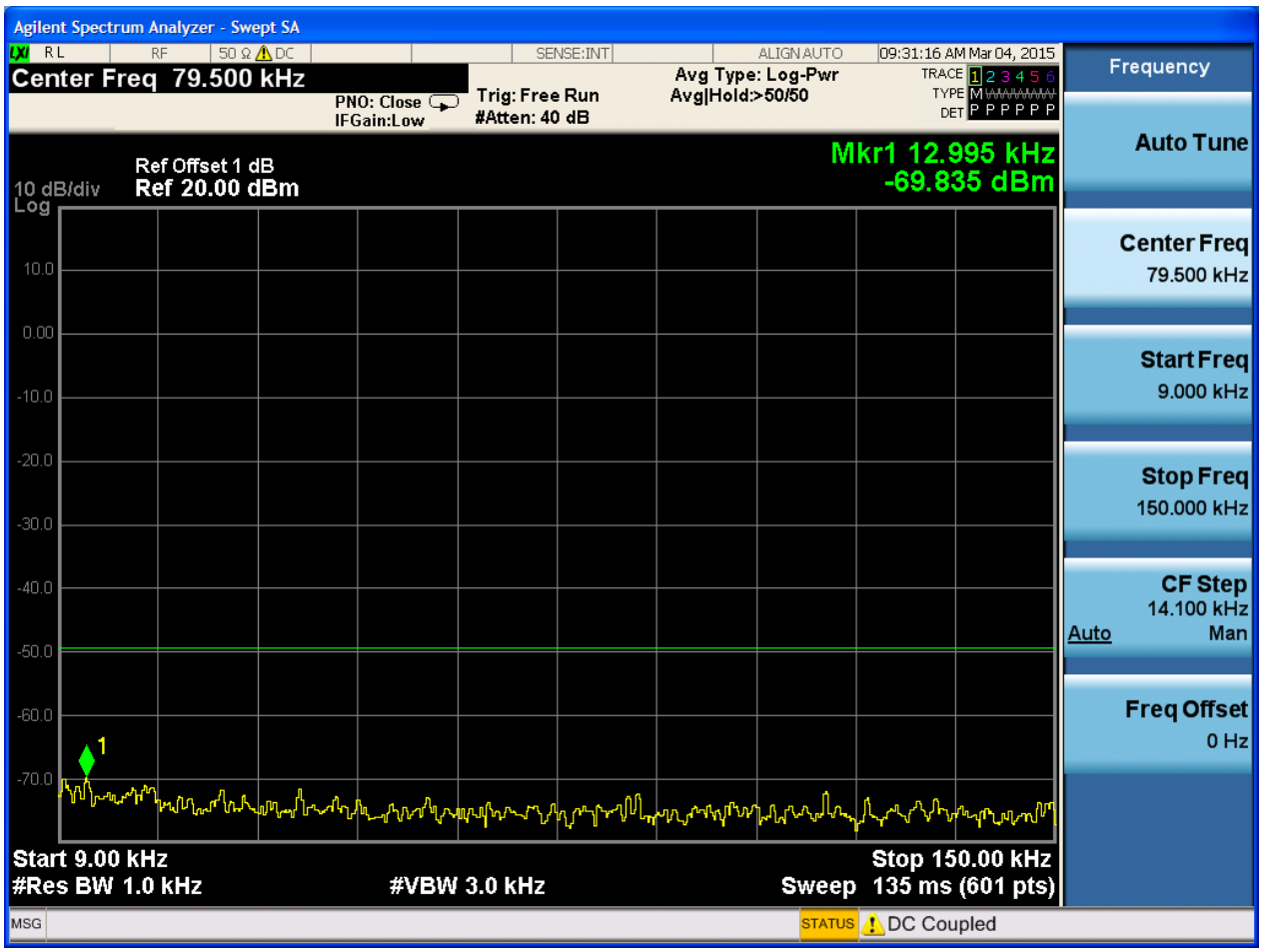
Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
09:31:16 AM Mar 04, 2015
Center Freq 79.500 kHz
PNO: Close
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
Avg|Hold:>50/50
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P P
Ref Offset 1 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 12.995 kHz
-69.835 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz
Stop 150.00 kHz
Sweep 135 ms (601 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
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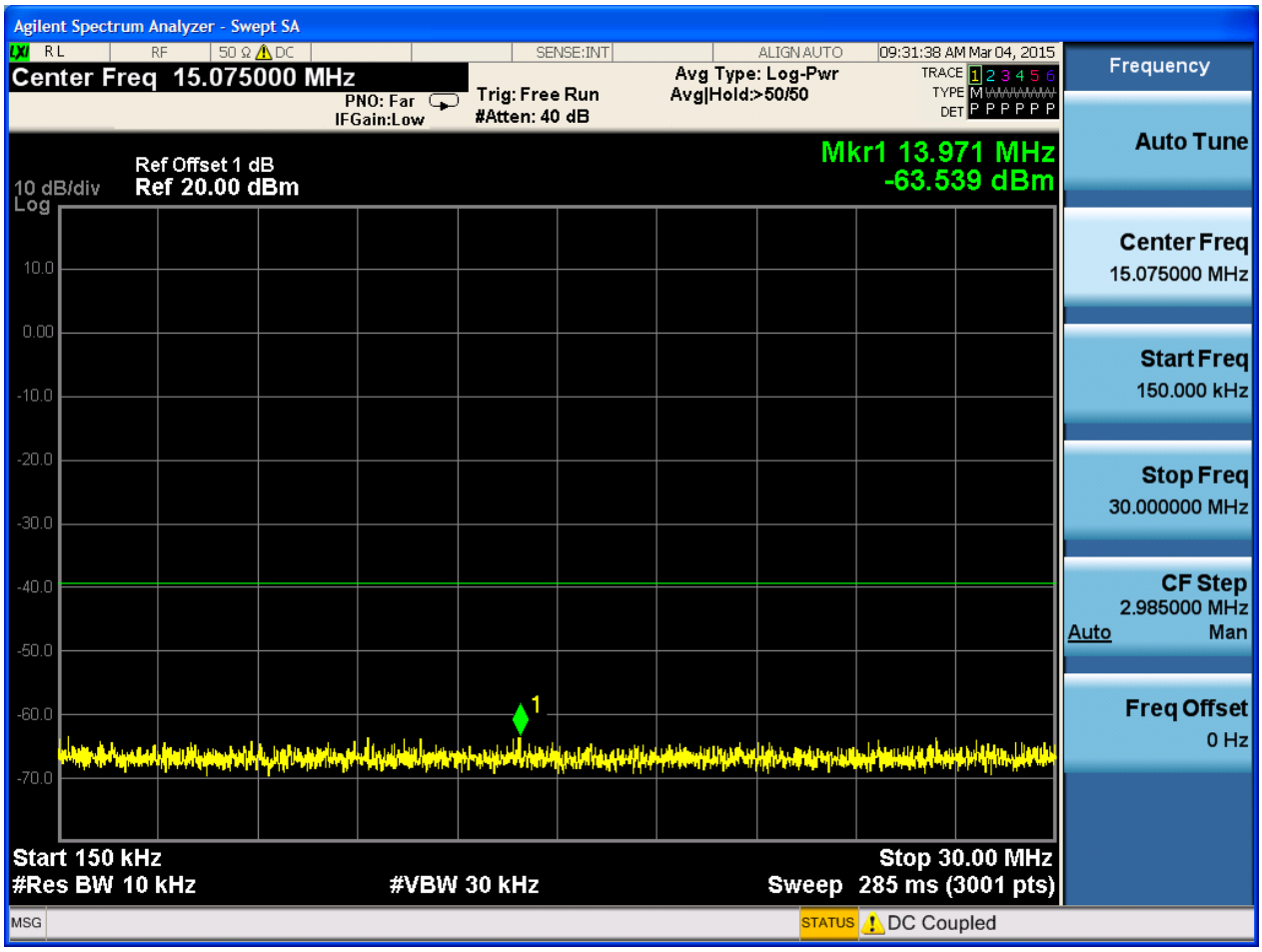
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz



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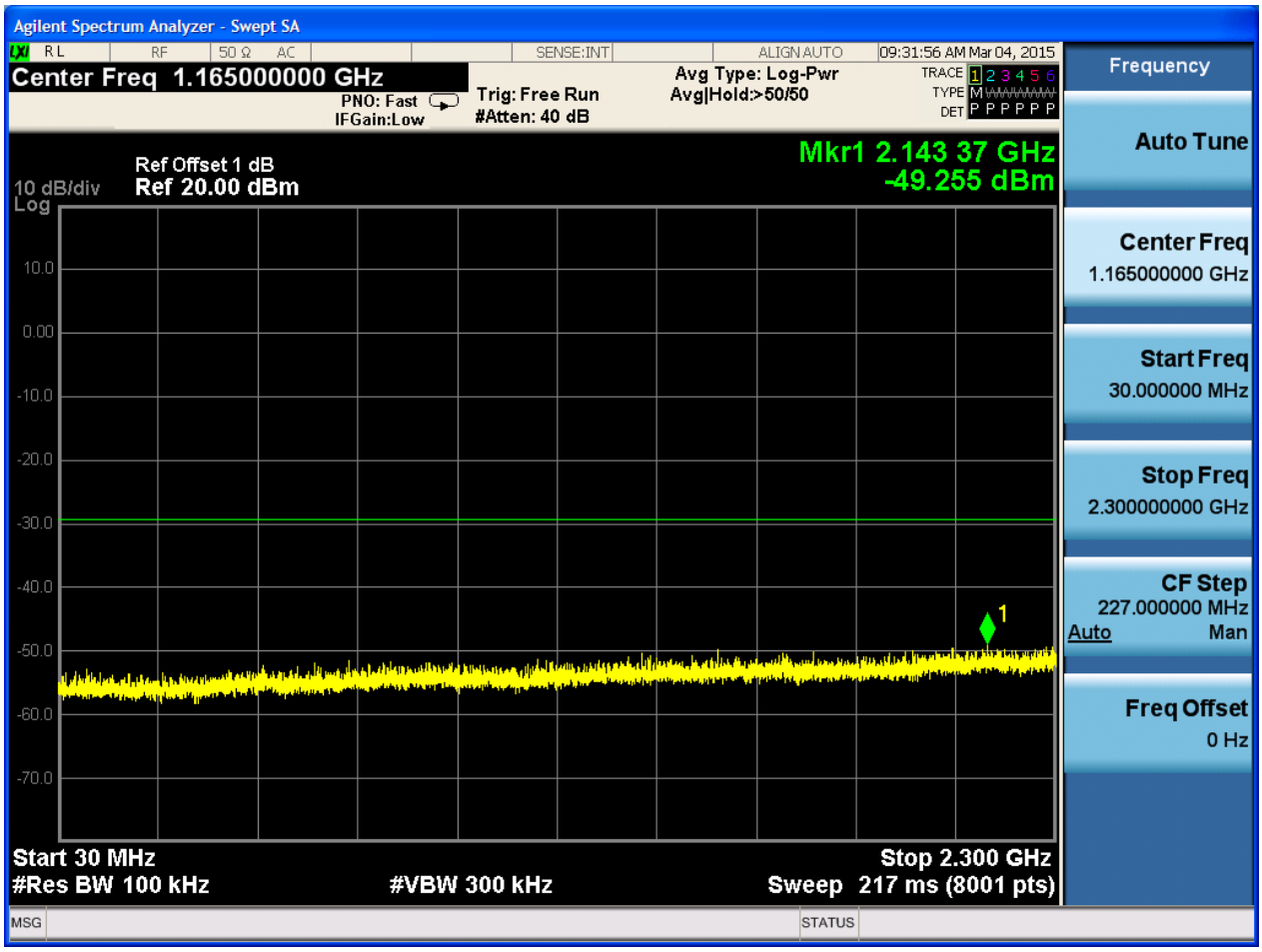

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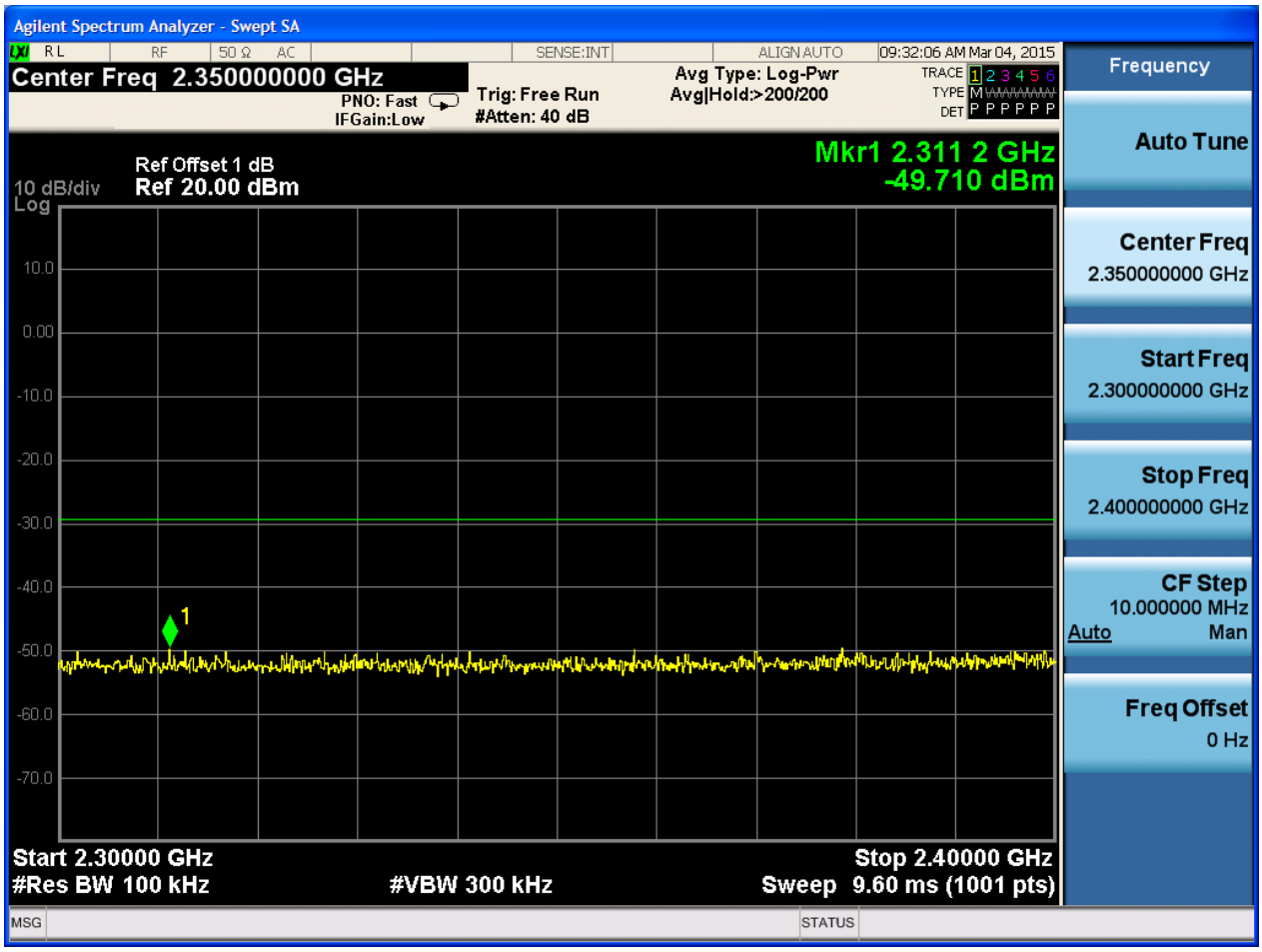

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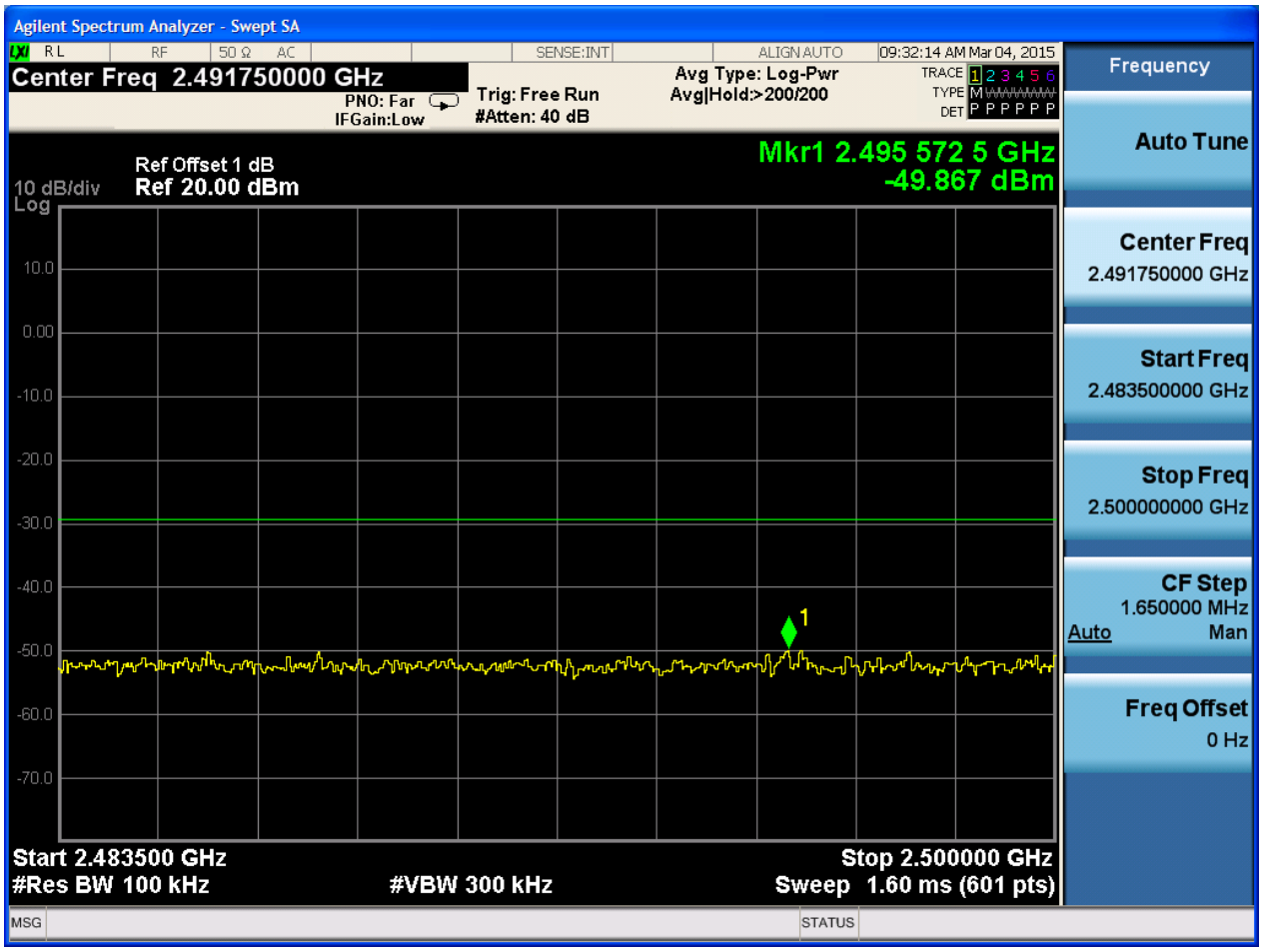

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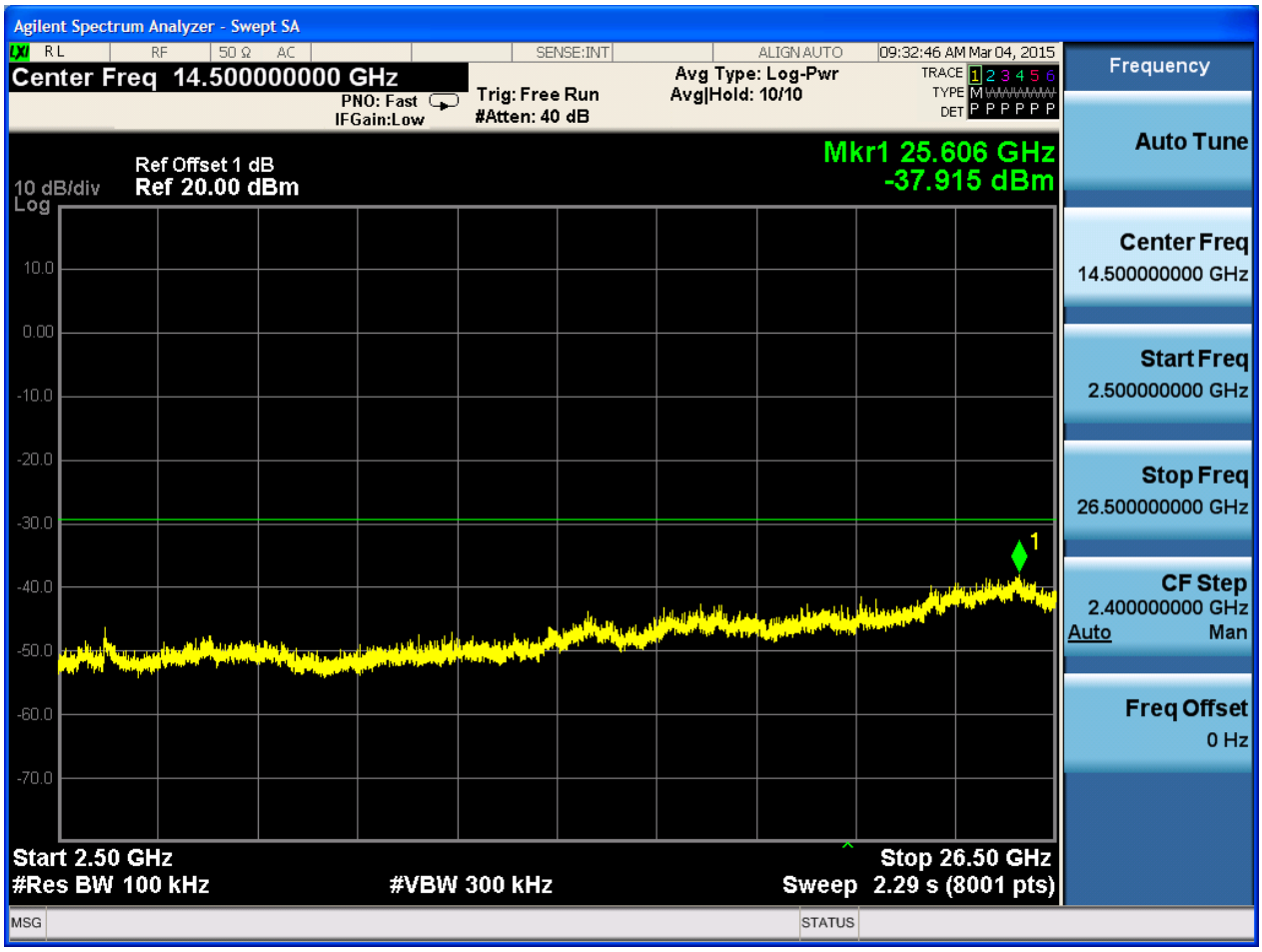

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2.11 11G_H@Ant 1

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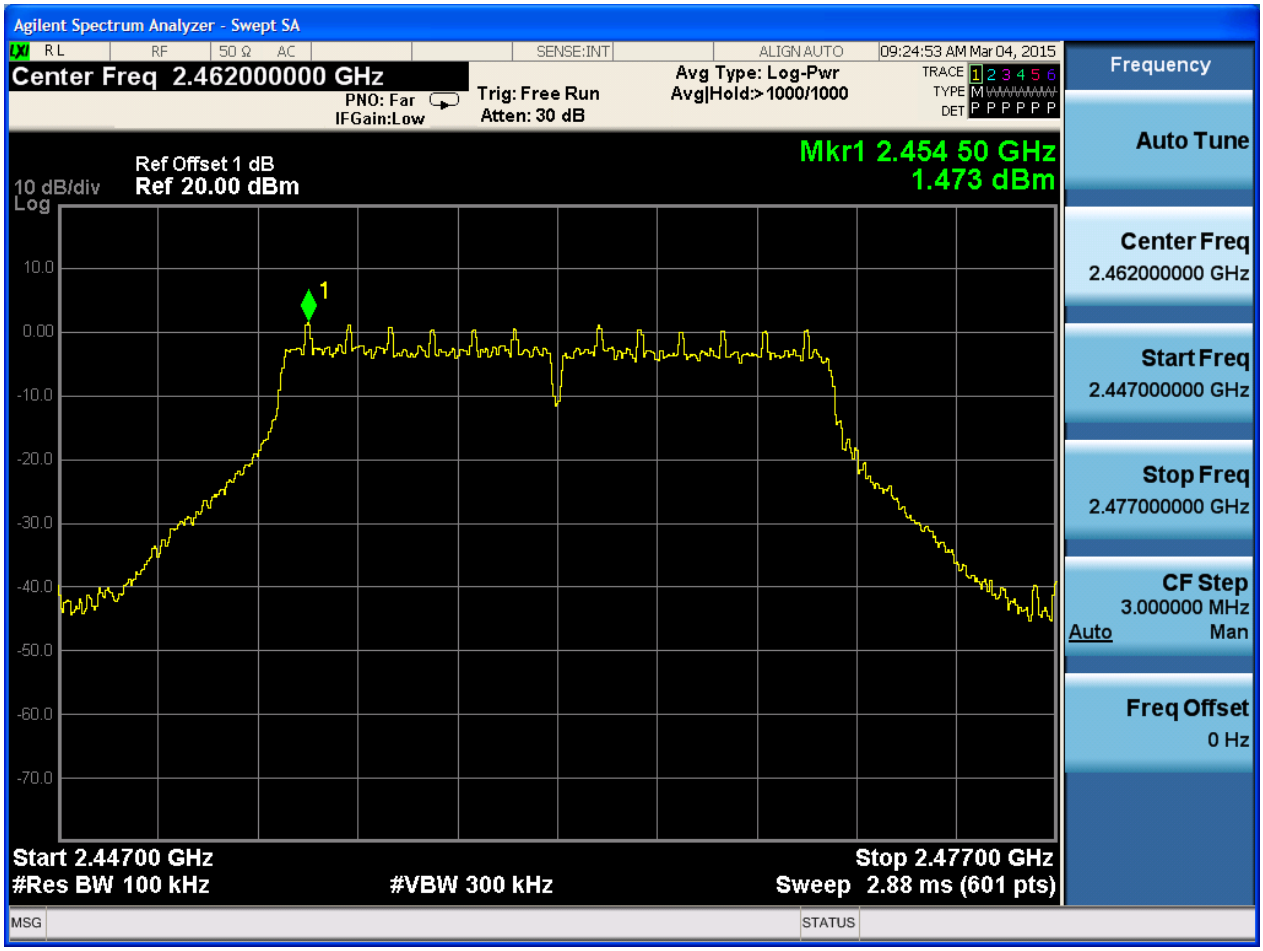

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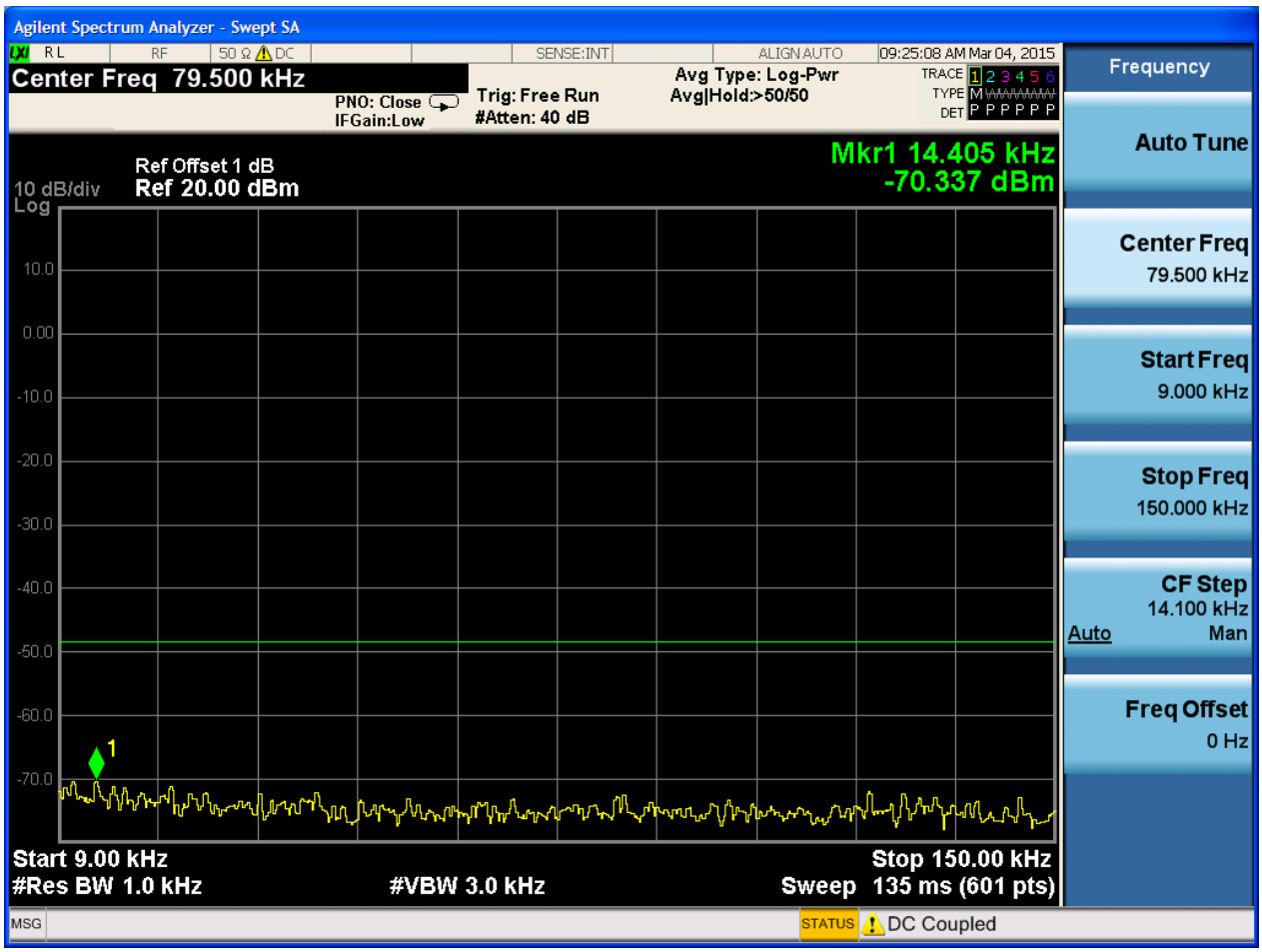

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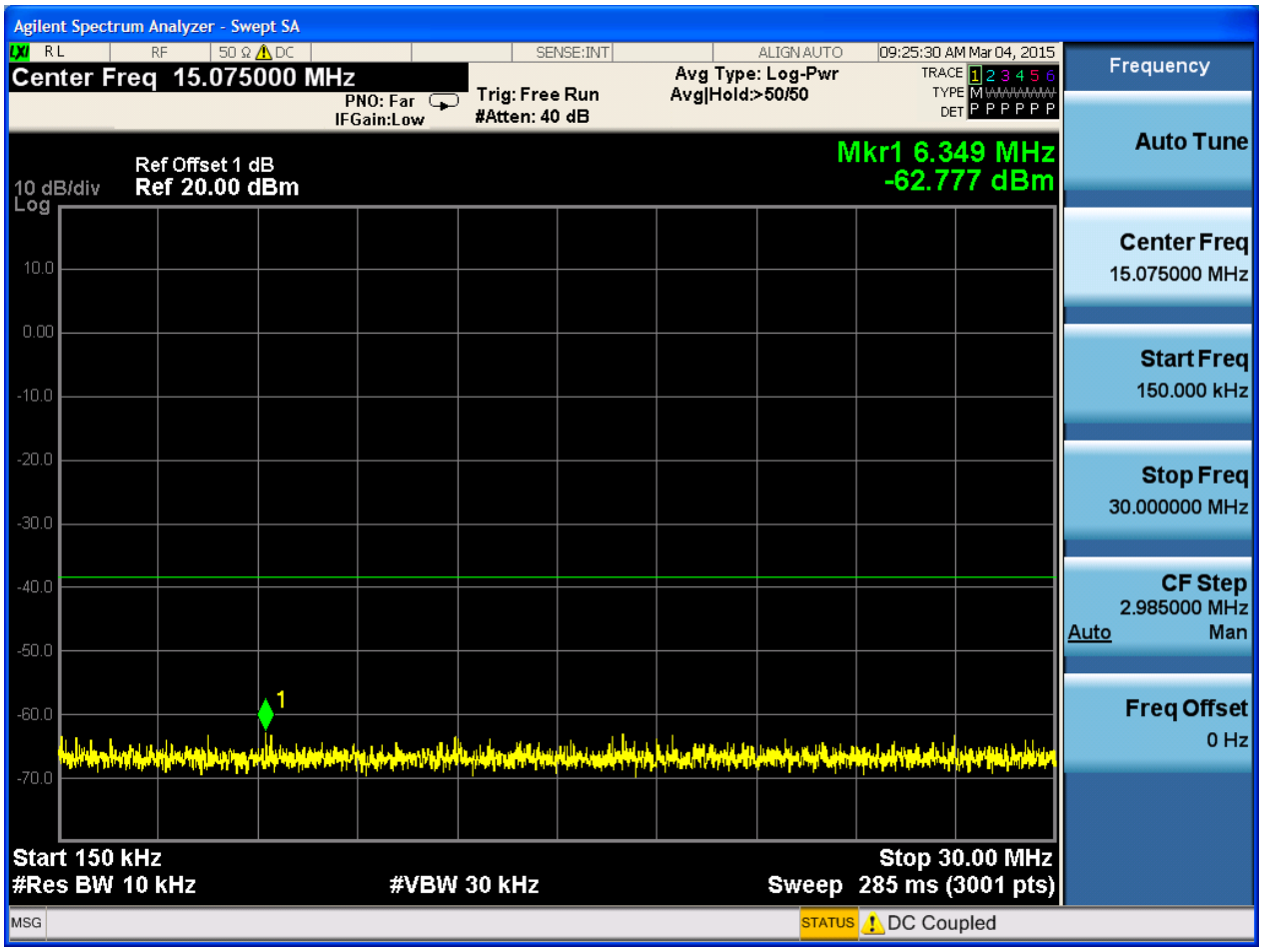

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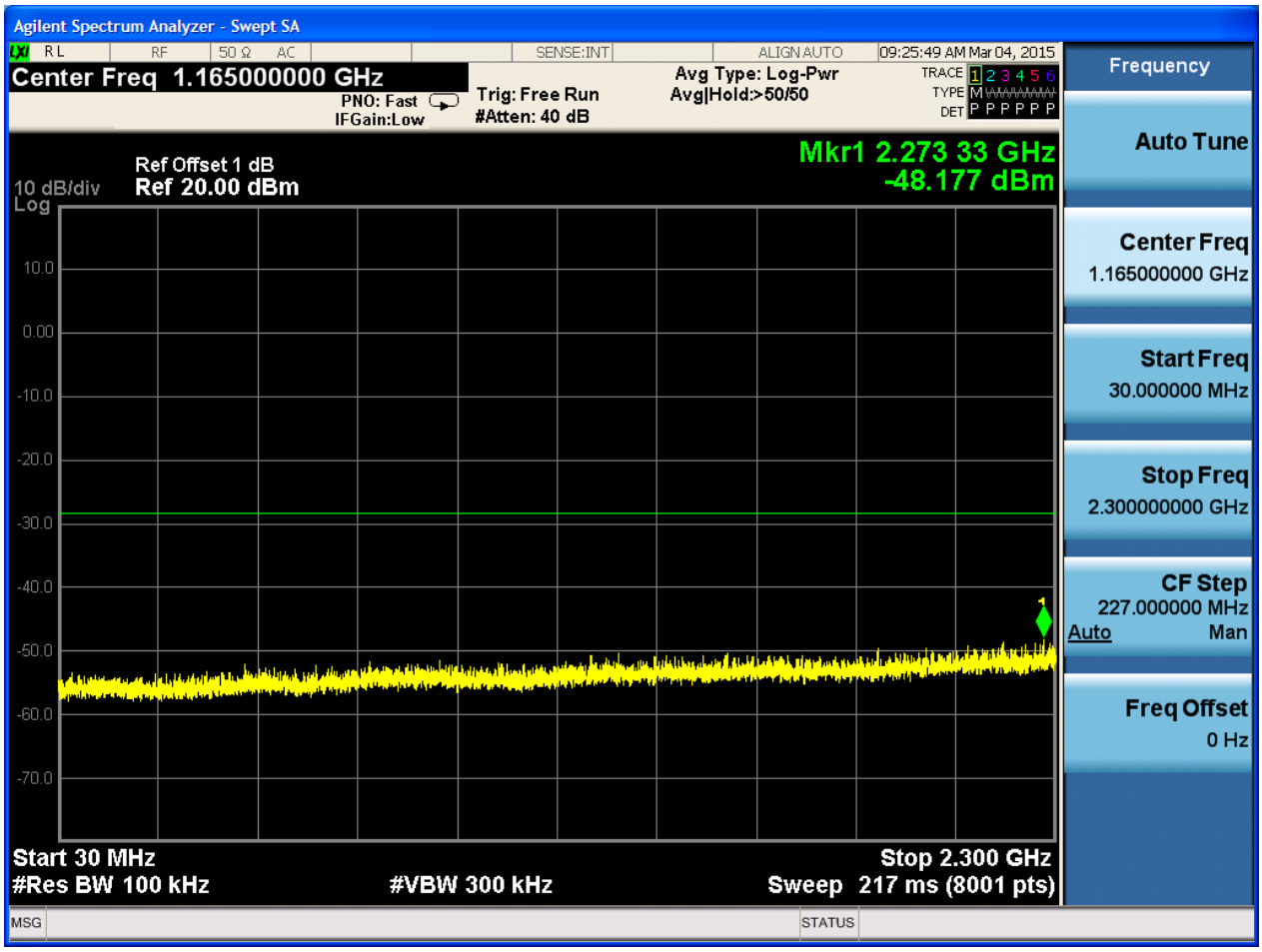

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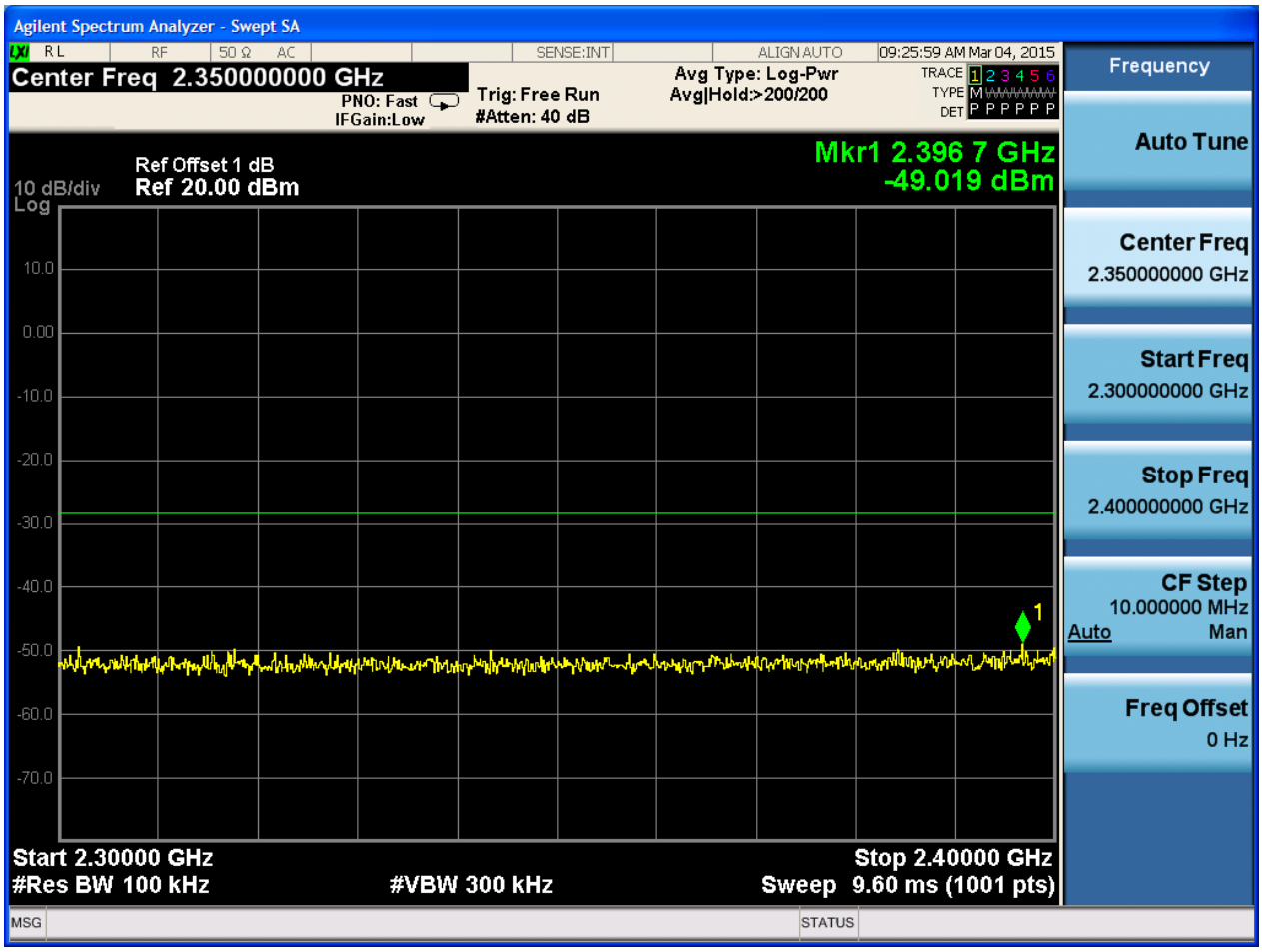

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