

Special Operating Conditions

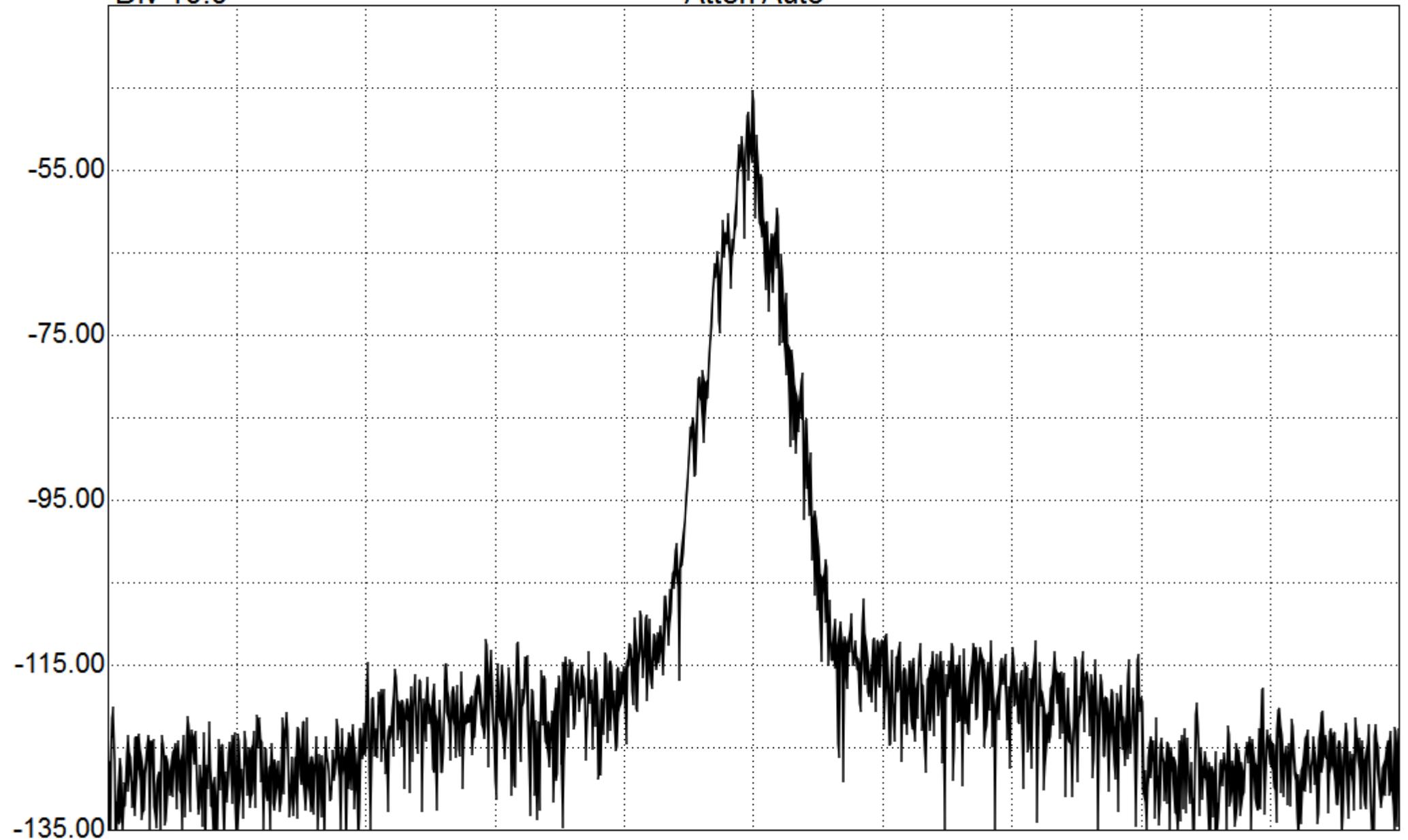
All five translators, K222DC, K257GO, K267AI, K283CD, and K291CG were operated into the five-port combiner, which is connected to the common antenna. A coupler was connected to a line section between the output of the combiner and the antenna. The sample from this coupler was fed to a Signal Hound SA44B spectrum analyzer.

An observation of the each was spectrum was noted. Emissions from 120 kHz to 240 kHz were down from the reference level at least 30 dB, exceeding 73.317 (b by 5 dB. At plus and minus 240 to 600 KHz they were down more than 47 dB. Emissions greater than 600 kHz were down at least 66.9 dB or more equal or better than the suppression required for the 250 Watt power level specified in 73.317 (d. In many cases at frequencies of plus and minus 600 KHz or more, there was another facility that showed up on the spectral trace, as it was coupling into the antenna system. There were no carriers that could be identified as spurious emissions attributable to the operation of these five translators, as emissions that could not be identified were present with the translator operation discontinued. Note the signal at 104.1 MHz is KWOW, Ch 281C2 FID6449, Clifton, TX and the signal at 104.9 MHz is KBHT (FM).

Ref -35.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

VBW 1.000000 kHz



Start 91.800000 MHz

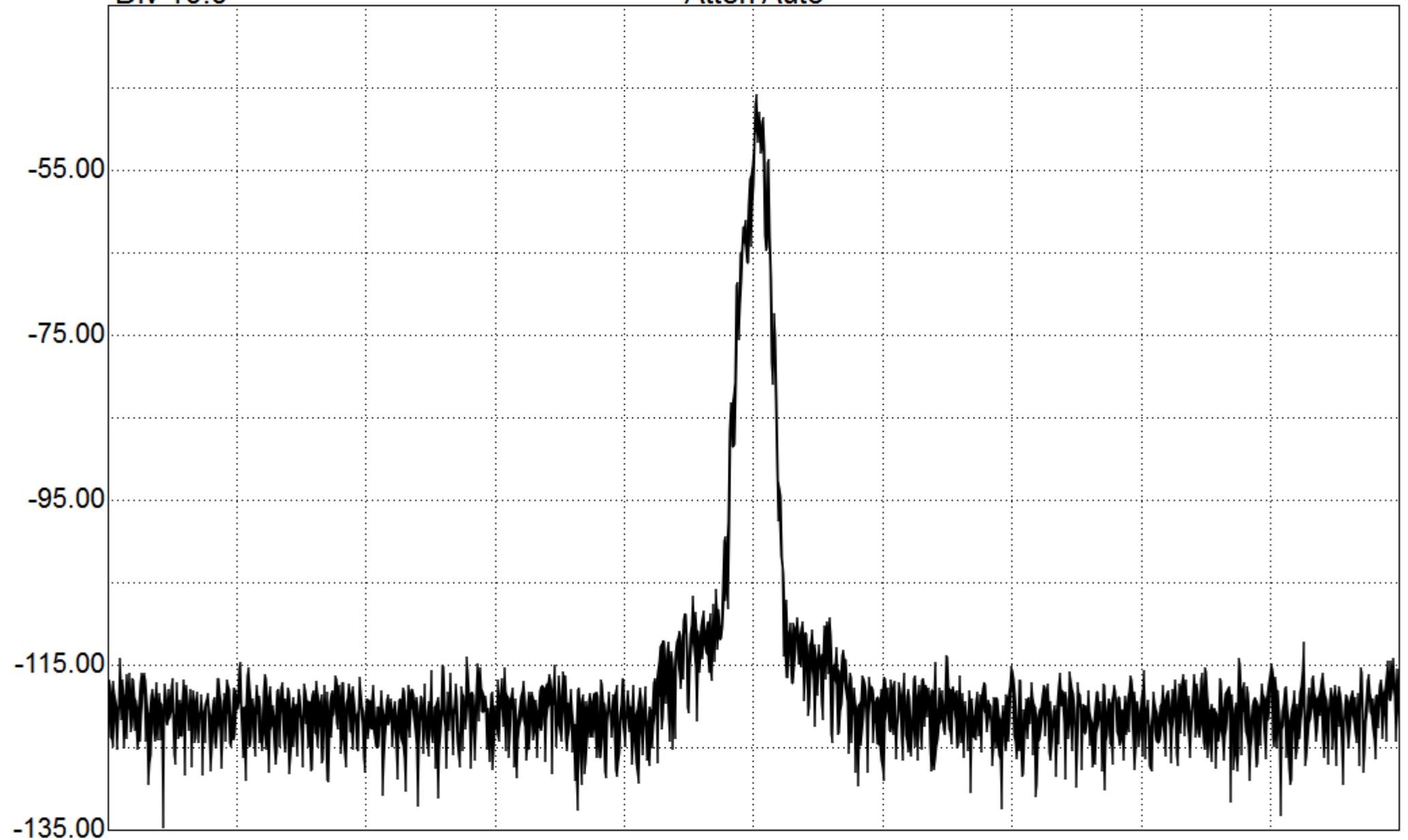
Center 92.300000 MHz
Span 1.000000 MHz

Stop 92.800000 MHz
4215 pts in 78 ms

Ref -35.000 dBm
Div 10.0

RBW 3.000000 kHz
Atten Auto

VBW 3.000000 kHz



Start 90.300000 MHz

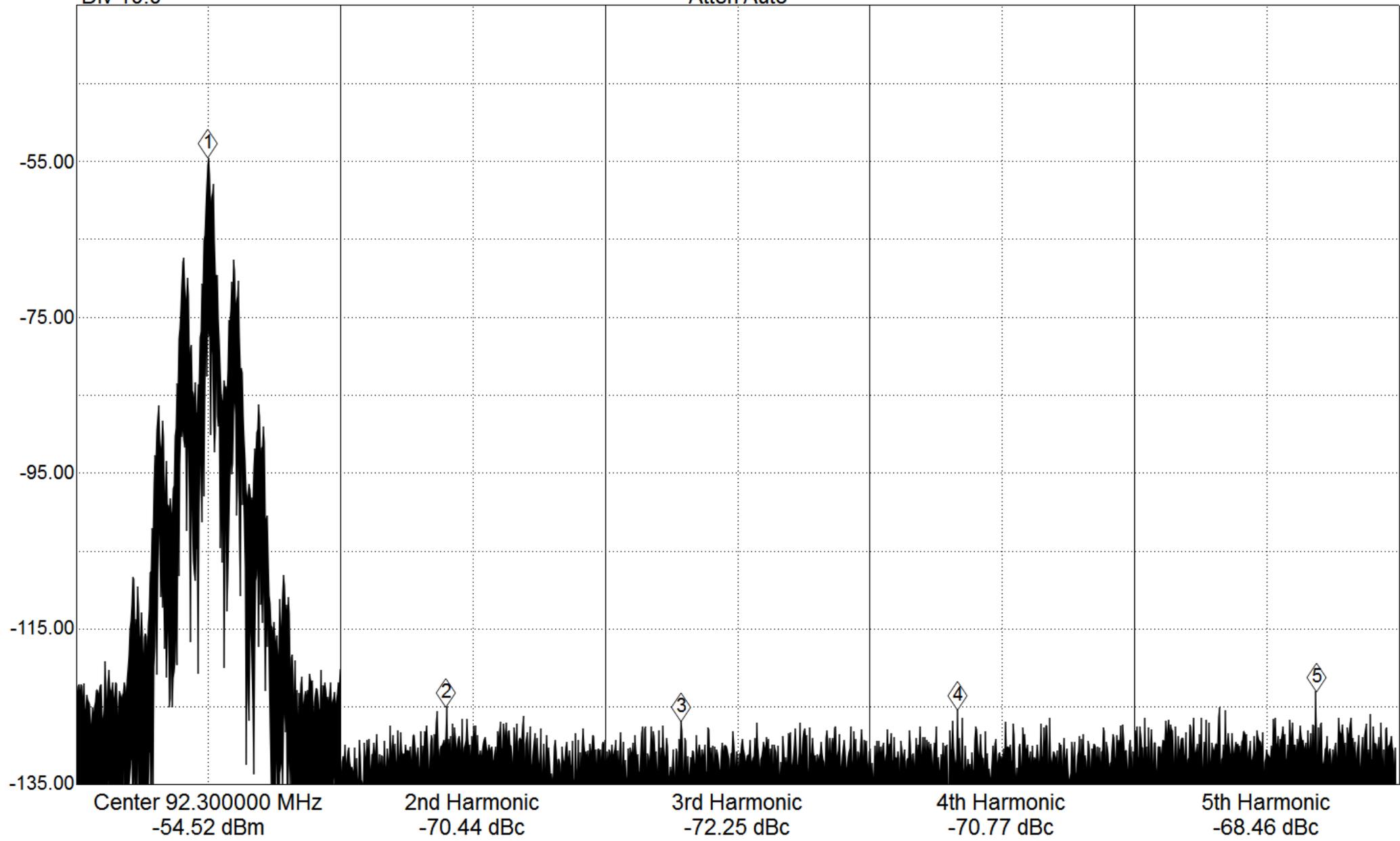
Center 92.300000 MHz
Span 4.000000 MHz

Stop 94.300000 MHz
8420 pts in 141 ms

Ref -35.000 dBm
Div 10.0

RBW 3.000000 kHz
Atten Auto

VBW 3.000000 kHz

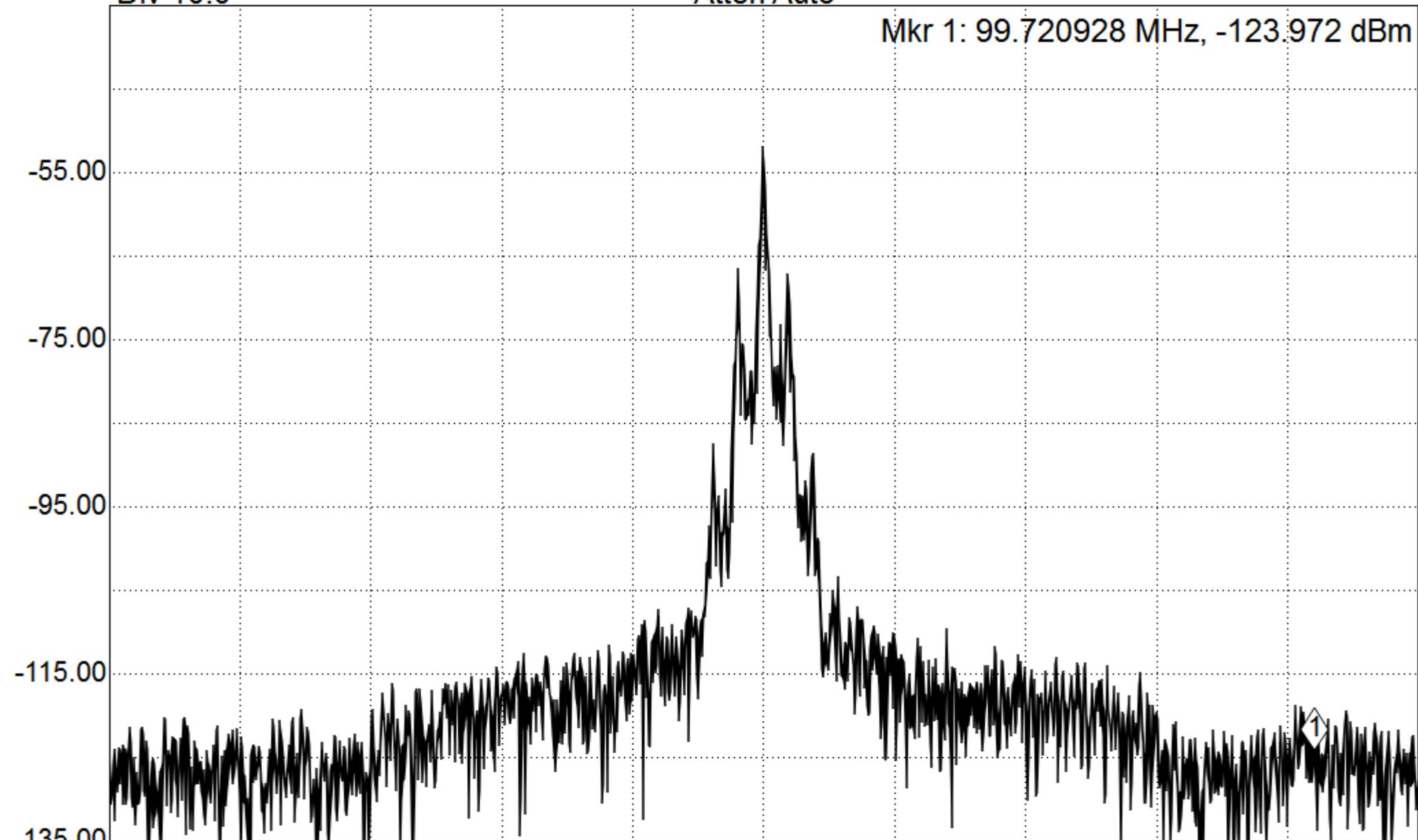


Ref -35.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

VBW 1.000000 kHz

Mkr 1: 99.720928 MHz, -123.972 dBm



Start 98.800000 MHz

Center 99.300000 MHz
Span 1.000000 MHz

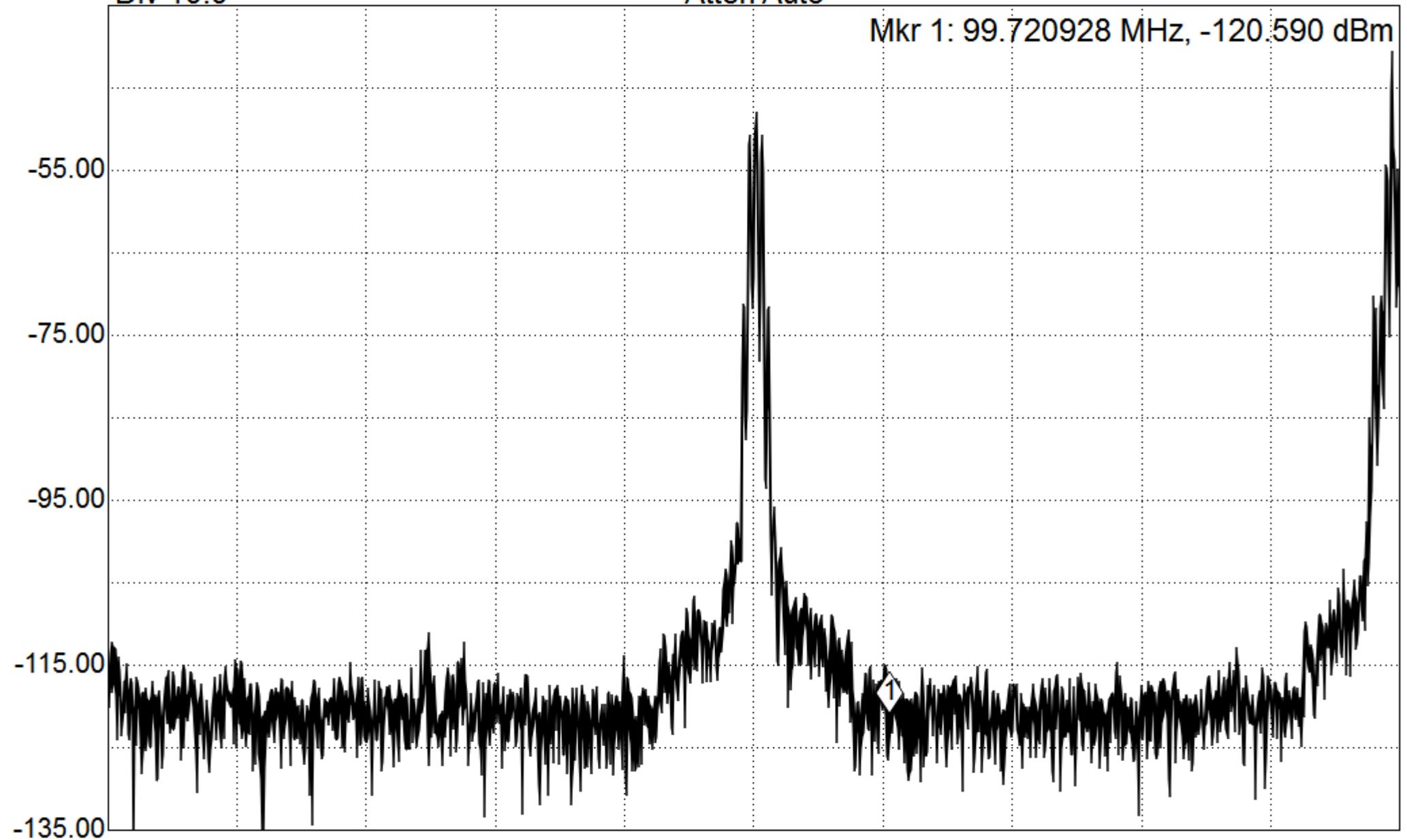
Stop 99.800000 MHz
4215 pts in 78 ms

Ref -35.000 dBm
Div 10.0

RBW 3.000000 kHz
Atten Auto

VBW 3.000000 kHz

Mkr 1: 99.720928 MHz, -120.590 dBm



Start 97.300000 MHz

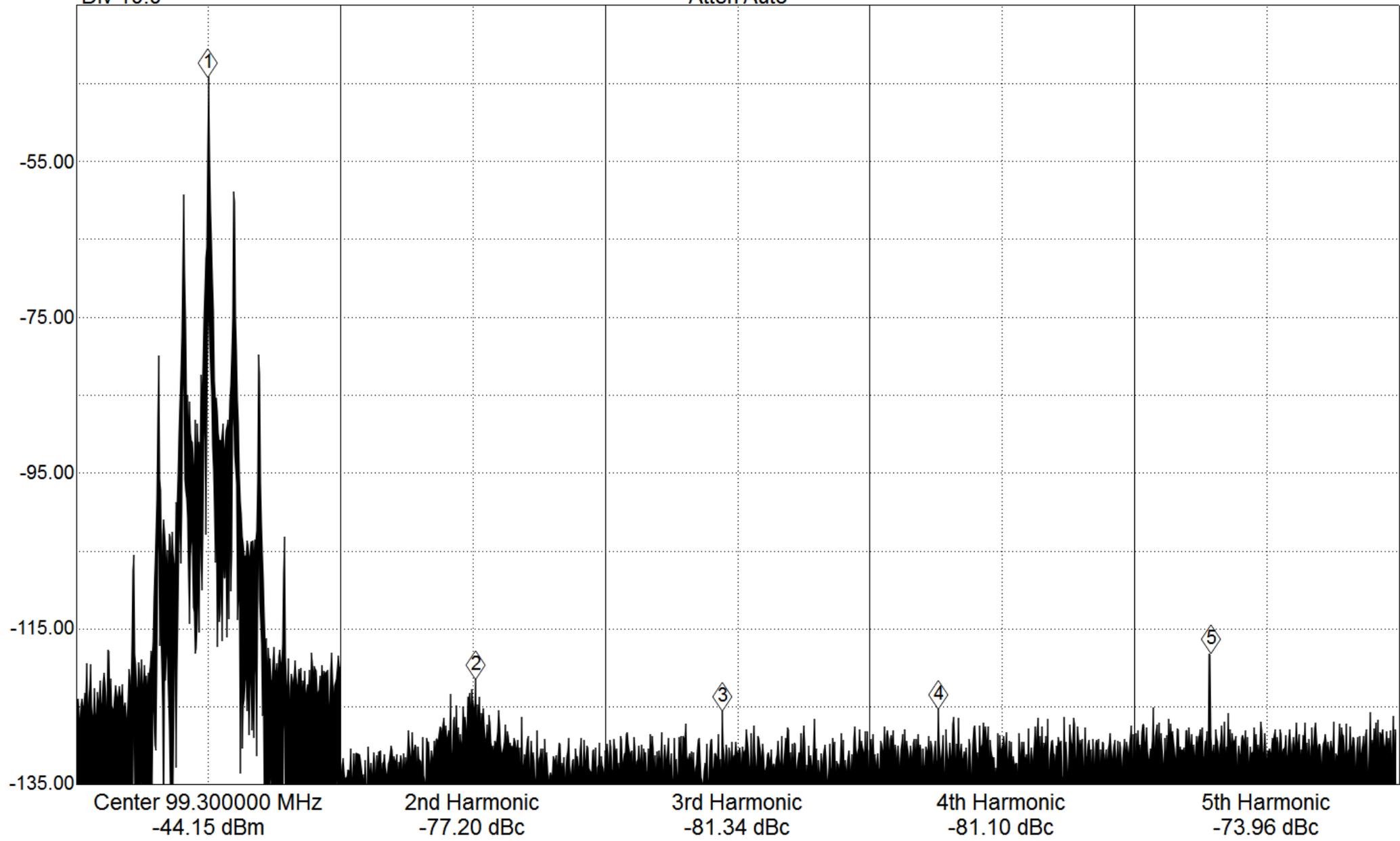
Center 99.300000 MHz
Span 4.000000 MHz

Stop 101.300000 MHz
8420 pts in 141 ms

Ref -35.000 dBm
Div 10.0

RBW 3.000000 kHz
Atten Auto

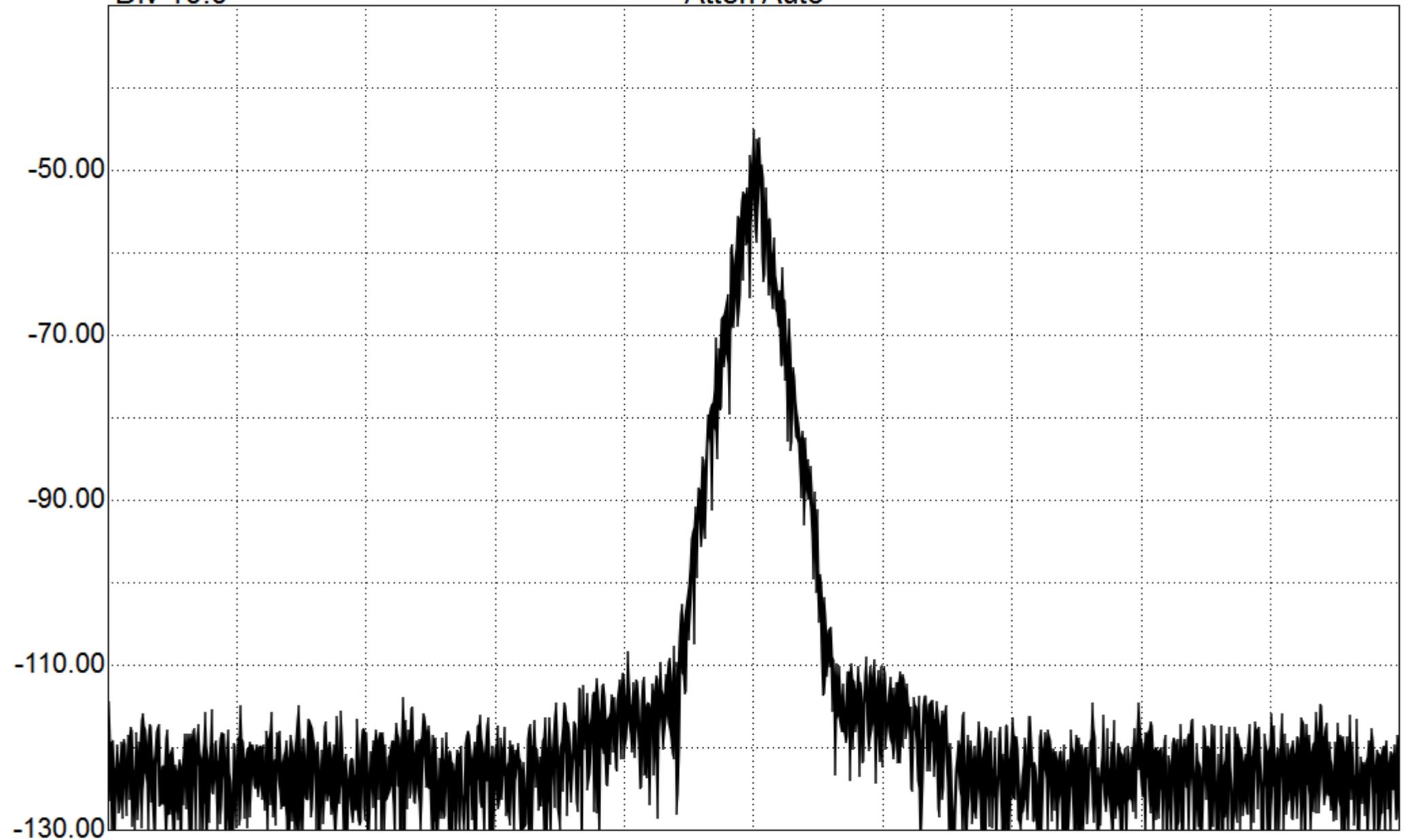
VBW 3.000000 kHz



Ref -30.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

VBW 1.000000 kHz



Start 100.300000 MHz

Center 101.300000 MHz

Stop 102.300000 MHz

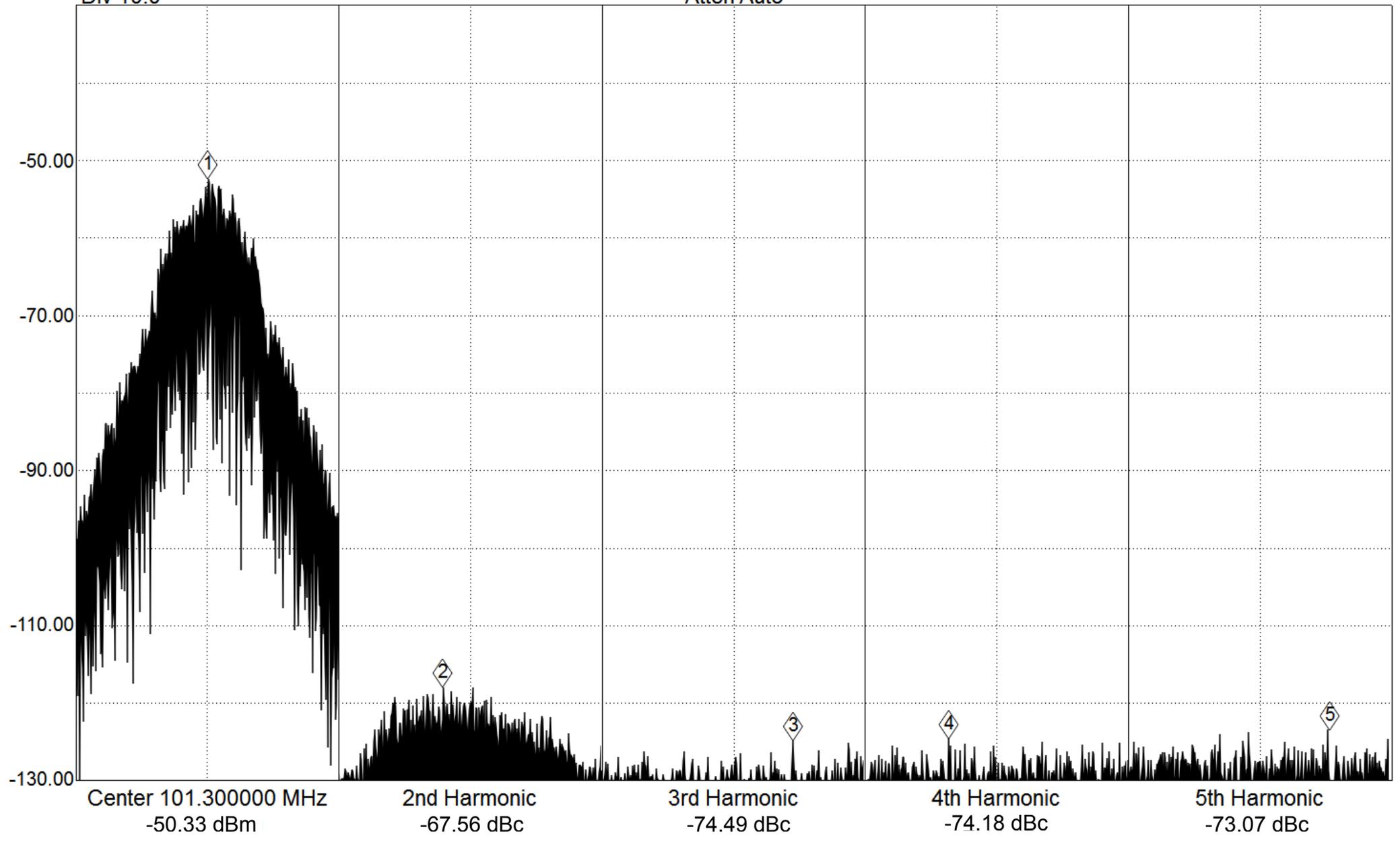
Span 2.000000 MHz

8430 pts in 124 ms

Ref -30.000 dBm
Div 10.0

RBW 3.000000 kHz
Atten Auto

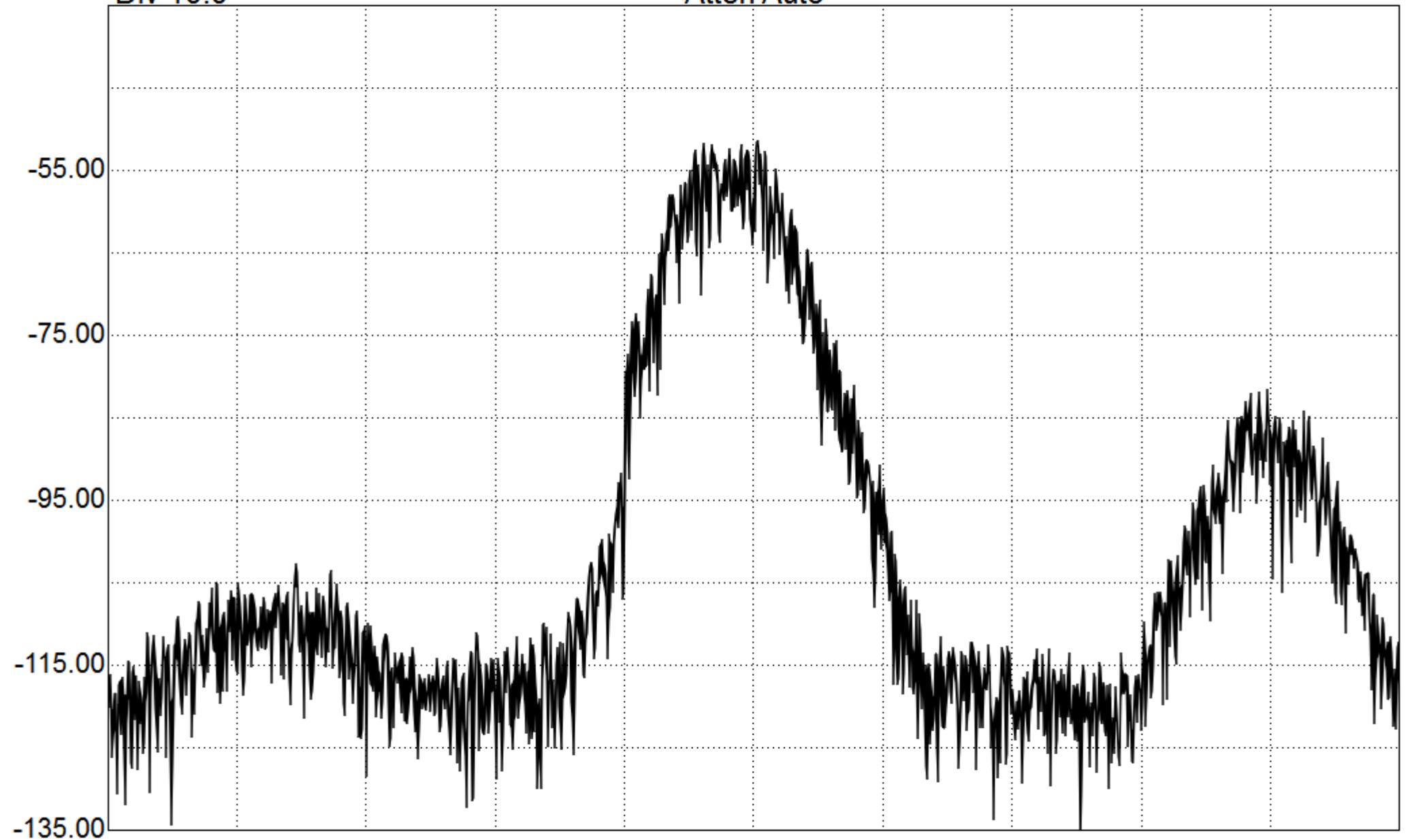
VBW 3.000000 kHz



Ref -35.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

VBW 1.000000 kHz



Start 104.000000 MHz

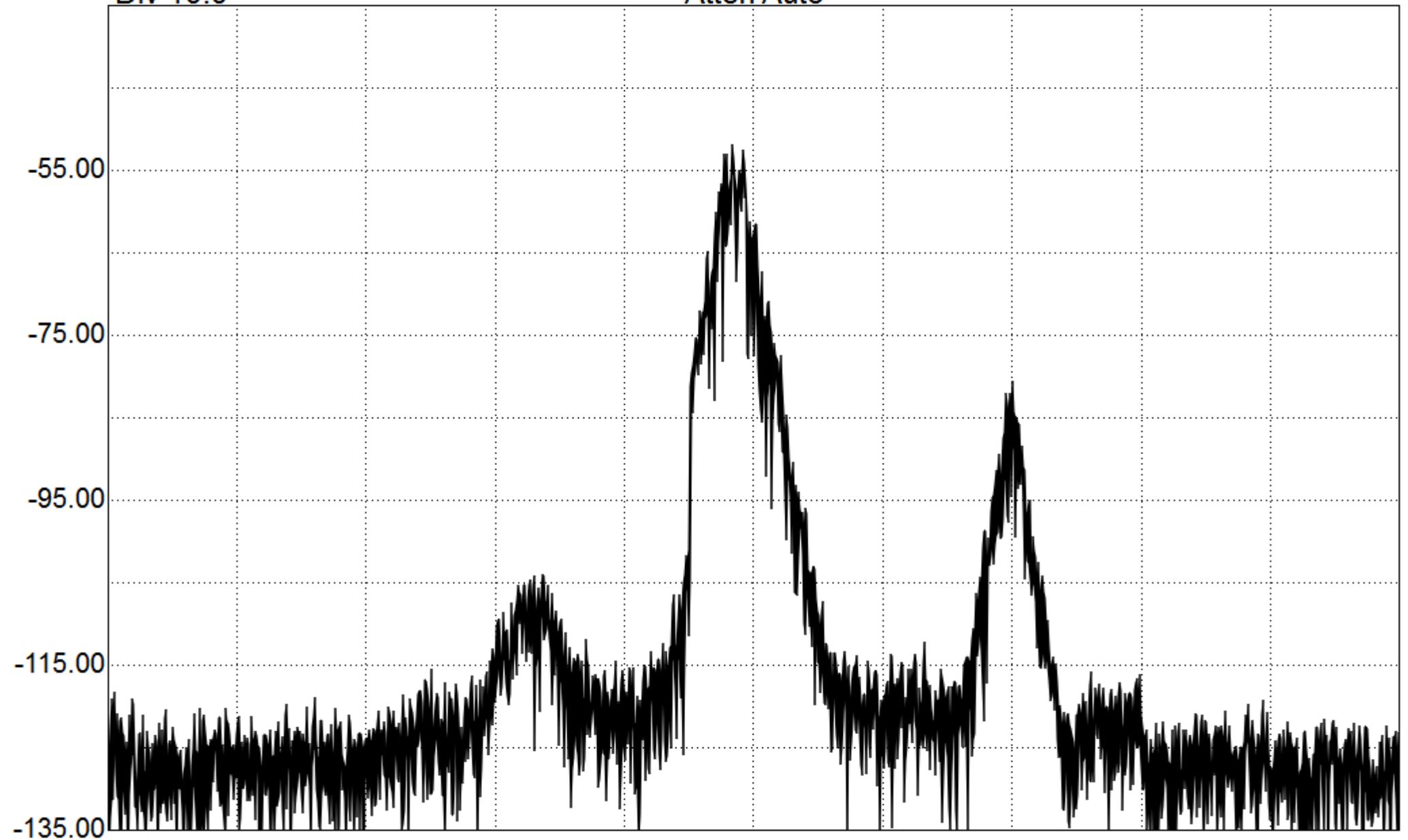
Center 104.500000 MHz
Span 1.000000 MHz

Stop 105.000000 MHz
4215 pts in 78 ms

Ref -35.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

VBW 1.000000 kHz



Start 103.500000 MHz

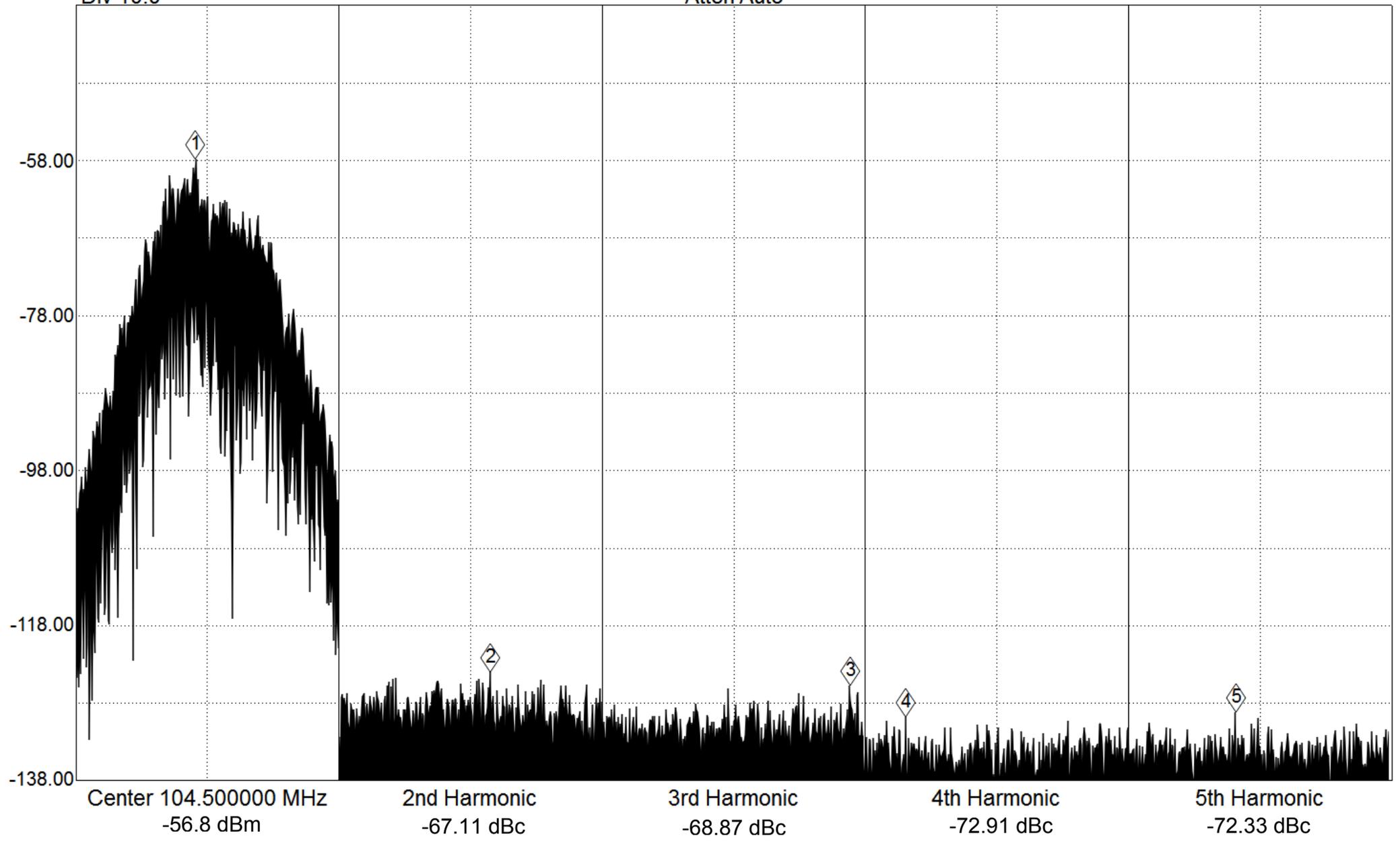
Center 104.500000 MHz
Span 2.000000 MHz

Stop 105.500000 MHz
8430 pts in 125 ms

Ref -38.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

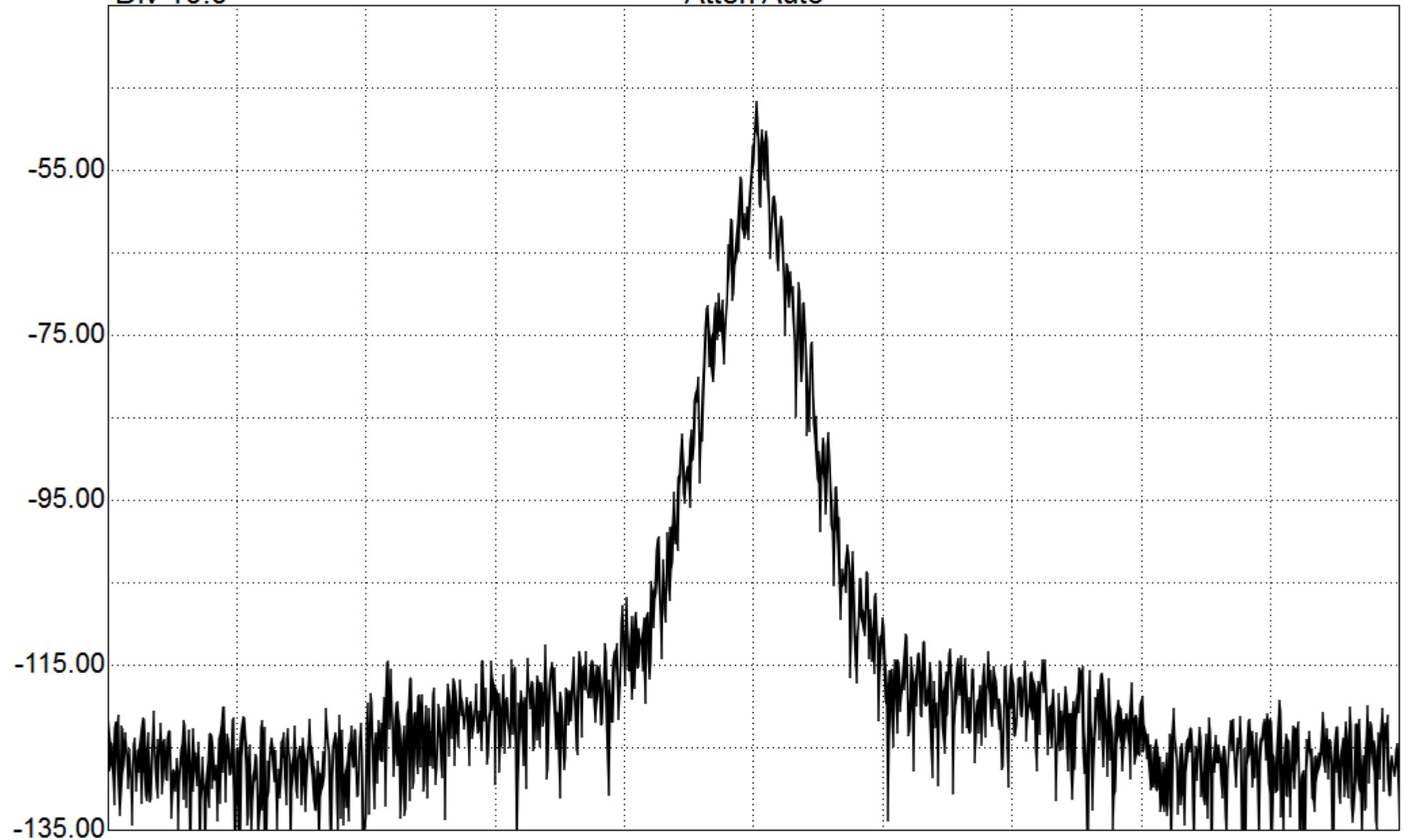
VBW 1.000000 kHz



Ref -35.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

VBW 1.000000 kHz



Start 105.600000 MHz

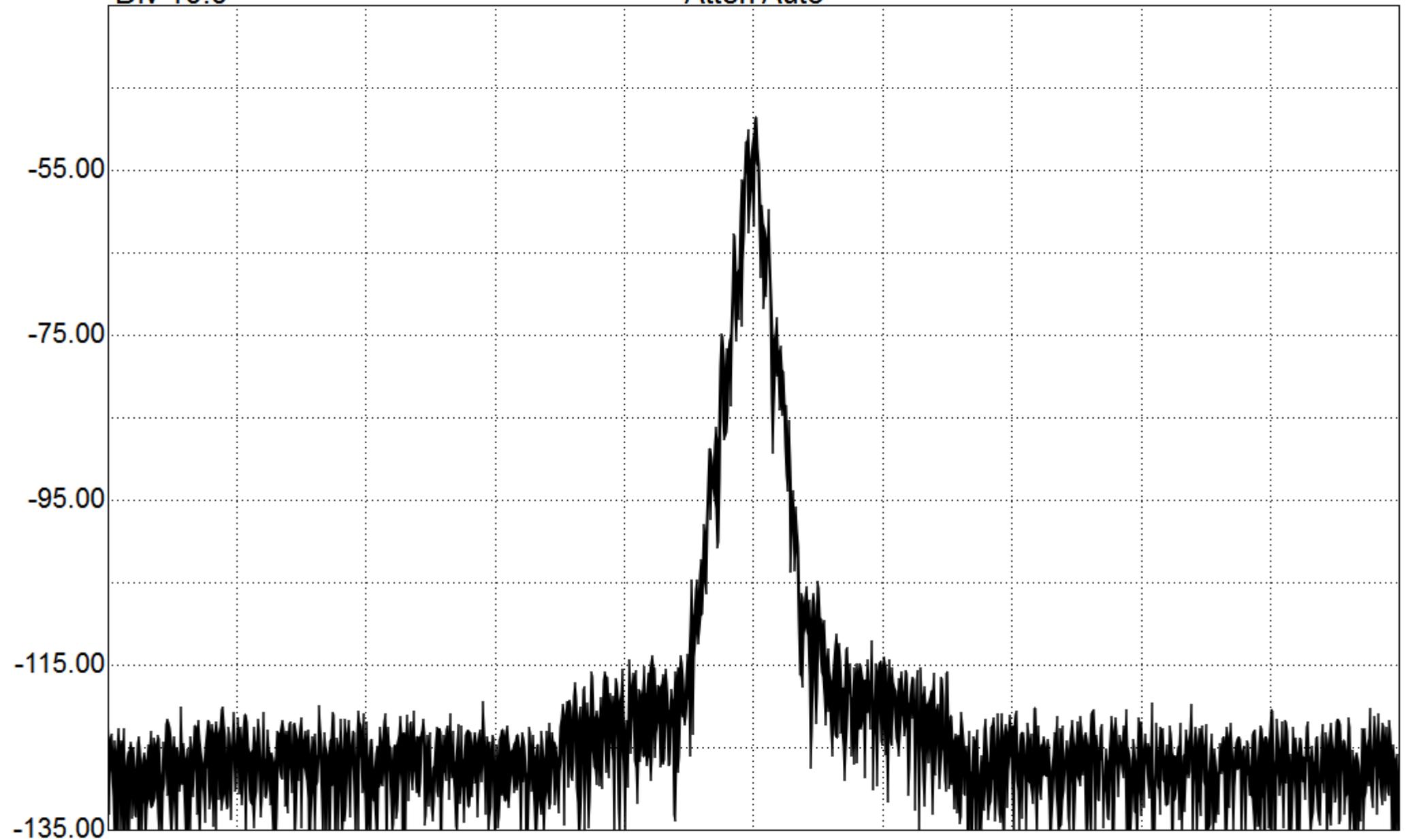
Center 106.100000 MHz
Span 1.000000 MHz

Stop 106.600000 MHz
4215 pts in 78 ms

Ref -35.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

VBW 1.000000 kHz



Start 105.100000 MHz

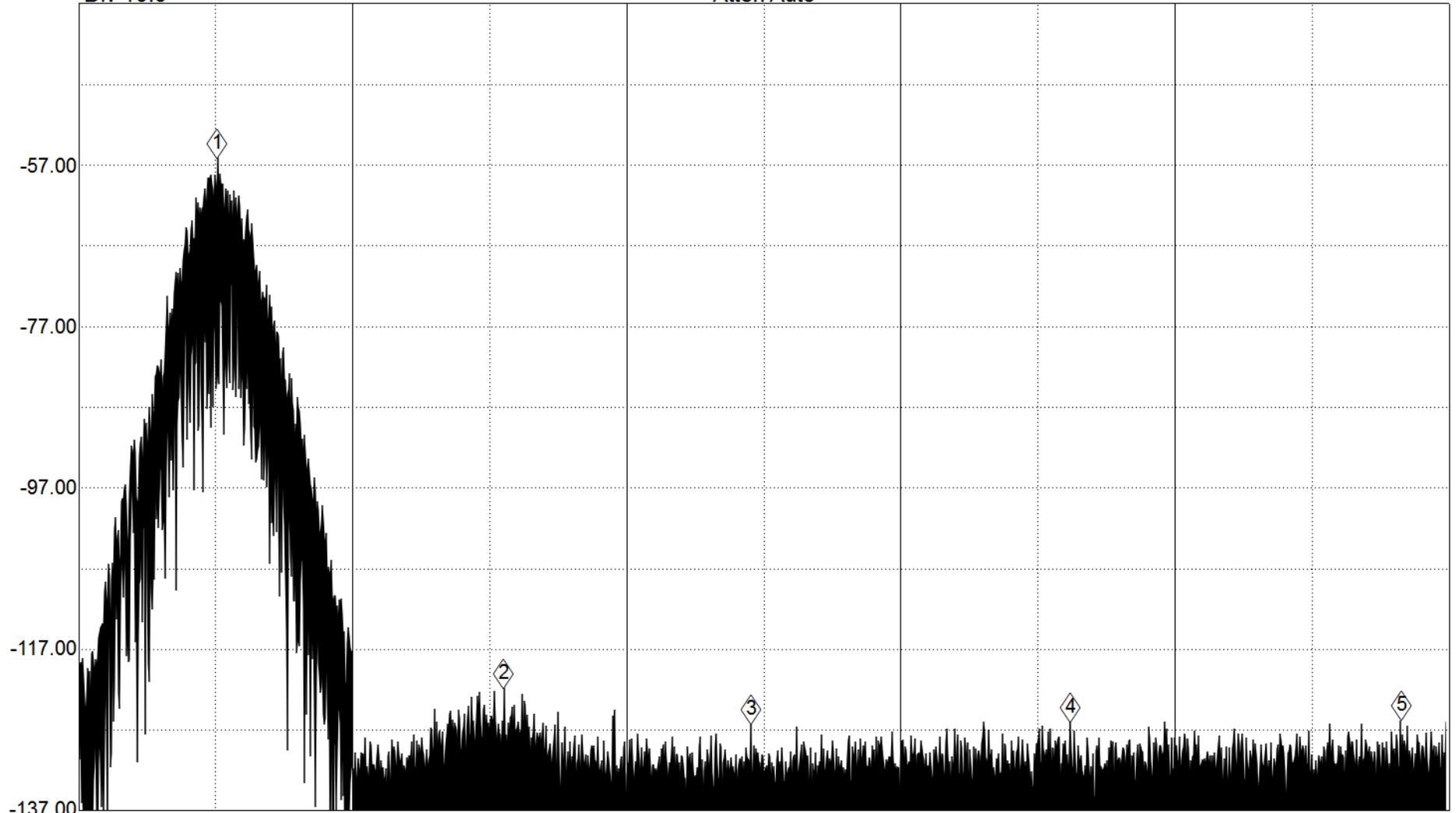
Center 106.100000 MHz
Span 2.000000 MHz

Stop 107.100000 MHz
8430 pts in 125 ms

Ref -37.000 dBm
Div 10.0

RBW 1.000000 kHz
Atten Auto

VBW 1.000000 kHz



Center 106.100000 MHz
-52.13 dBm

2nd Harmonic
-69.67 dBc

3rd Harmonic
-74.17 dBc

4th Harmonic
-73.81 dBc

5th Harmonic
-73.63 dBc