

Apêndice

Detonações Realizadas no Canteiro de Obras da UHE Santo Antônio

Novembro 2012

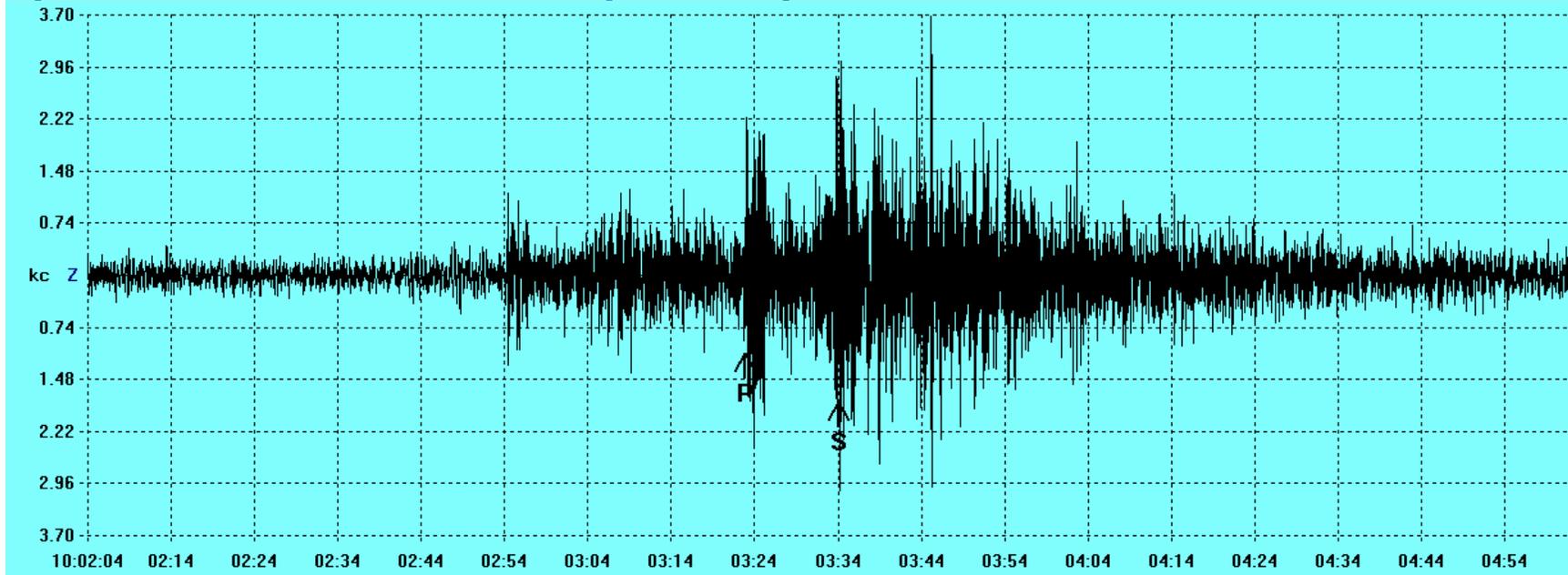
Registros das Estações SAML, SANT1 e SANT2

Observação

Todos os registros da estação SAML mostrados nesta seção foram filtrados com um filtro do tipo high-pass (acima de 1.0 Hz, com 4 polos). Quando foi empregado outro tipo de filtro, o procedimento foi indicado em cada caso. Todos os registros das estações SANT1 e SANT2 mostrados nesta seção foram filtrados com um filtro do tipo high-pass acima de 0.1 Hz.

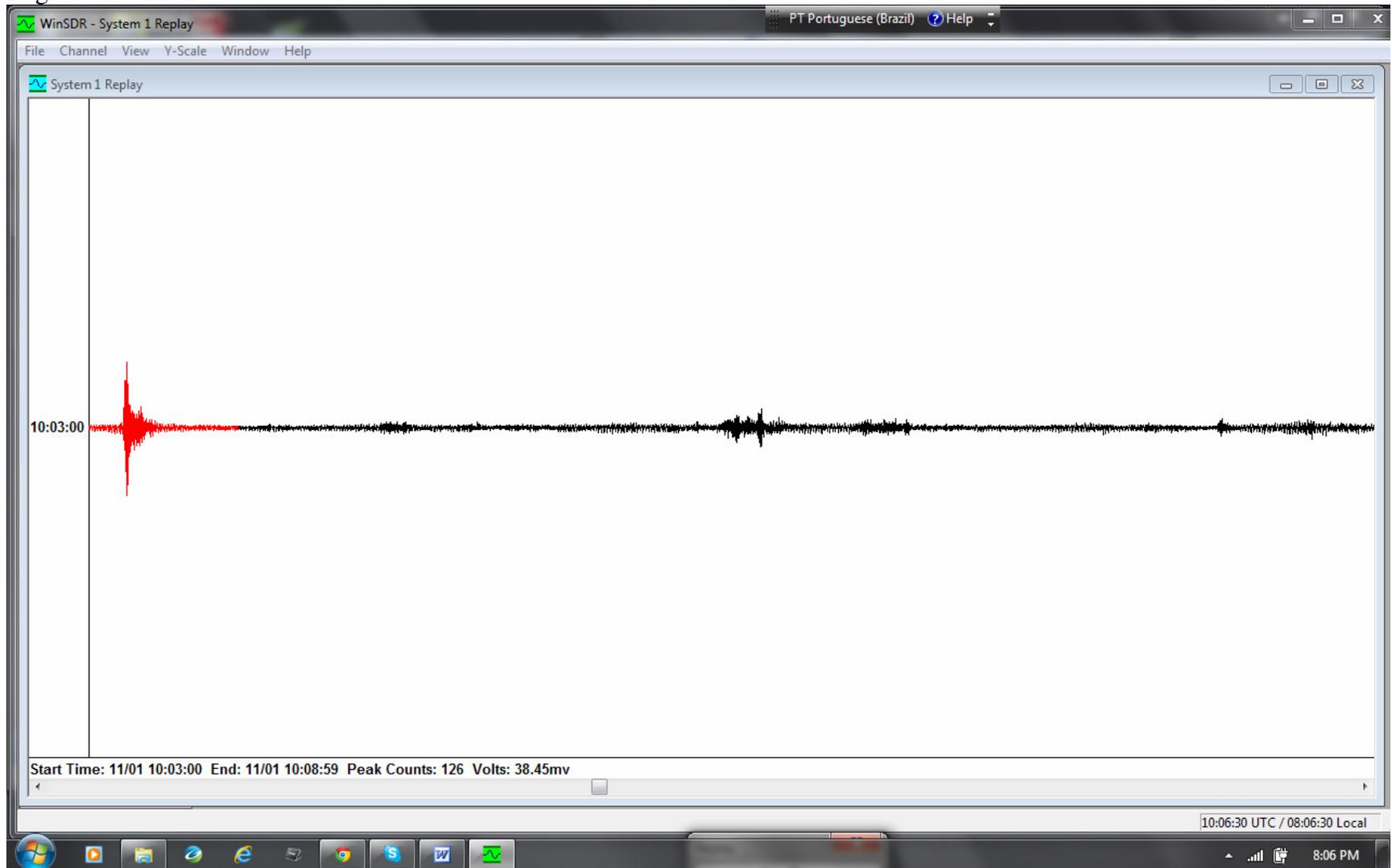
Registro de SAML:

Start: 11/01/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3682/-3062 X: 2:58.0 Y: 3.7kc
Org: 10:03:07.8 P: 10:03:22.9 S: 10:03:34.1 Diff: 11.2sec Dist: 0.793deg 88.2km 54.8mi Mag: MI?? JB: 33

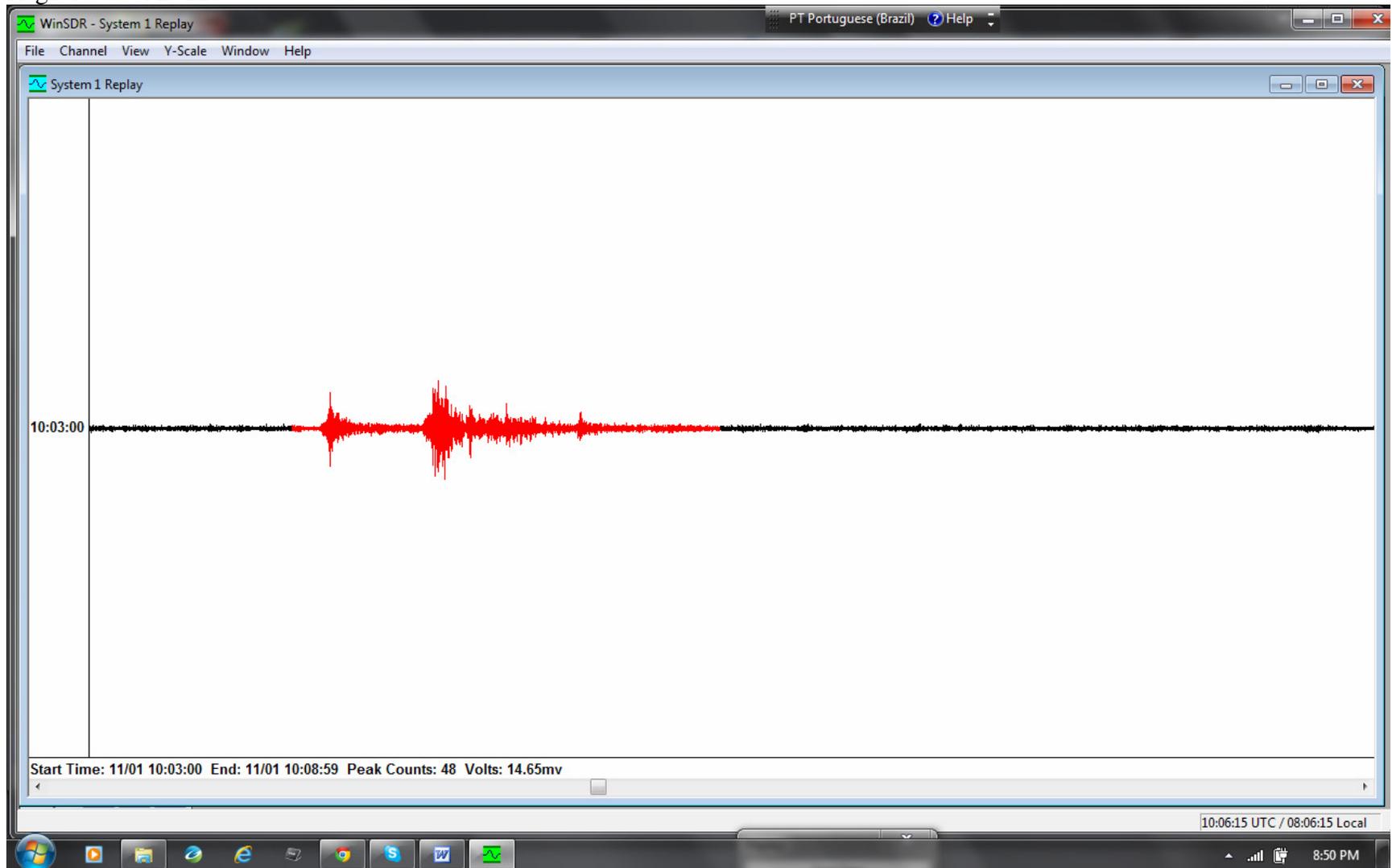


Evento 1

Registro de SANT1:

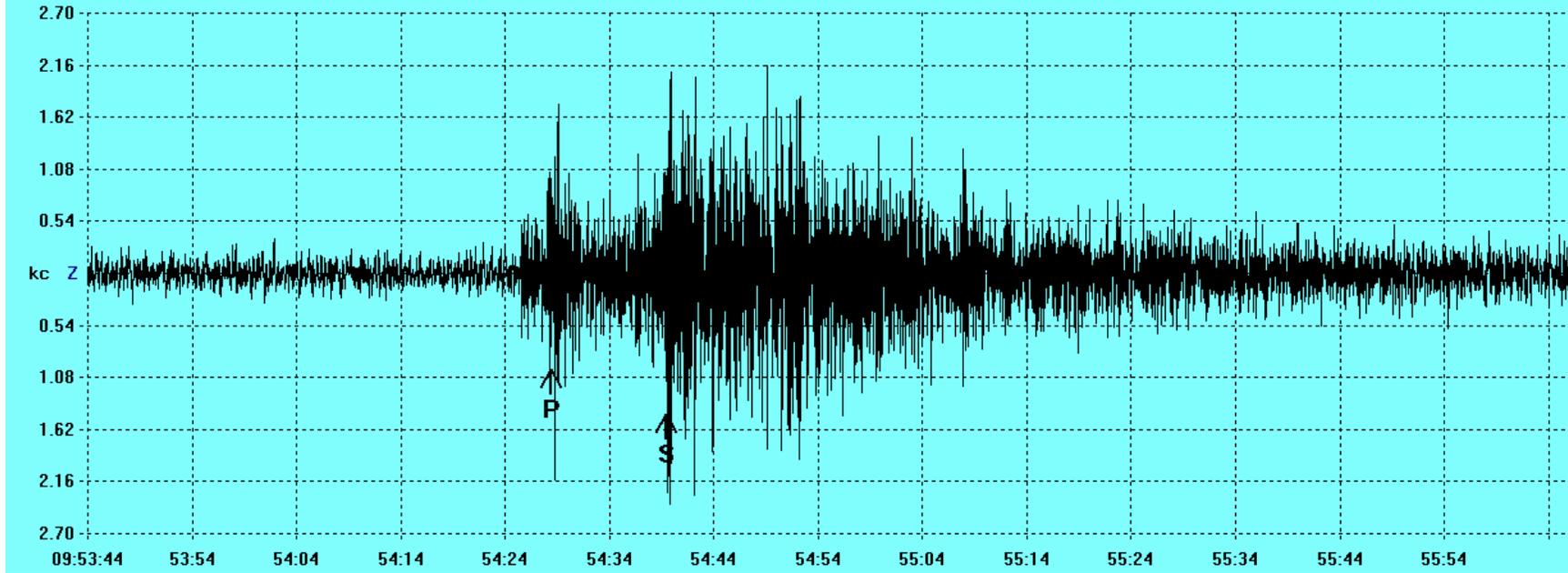


Registro de SANT2:



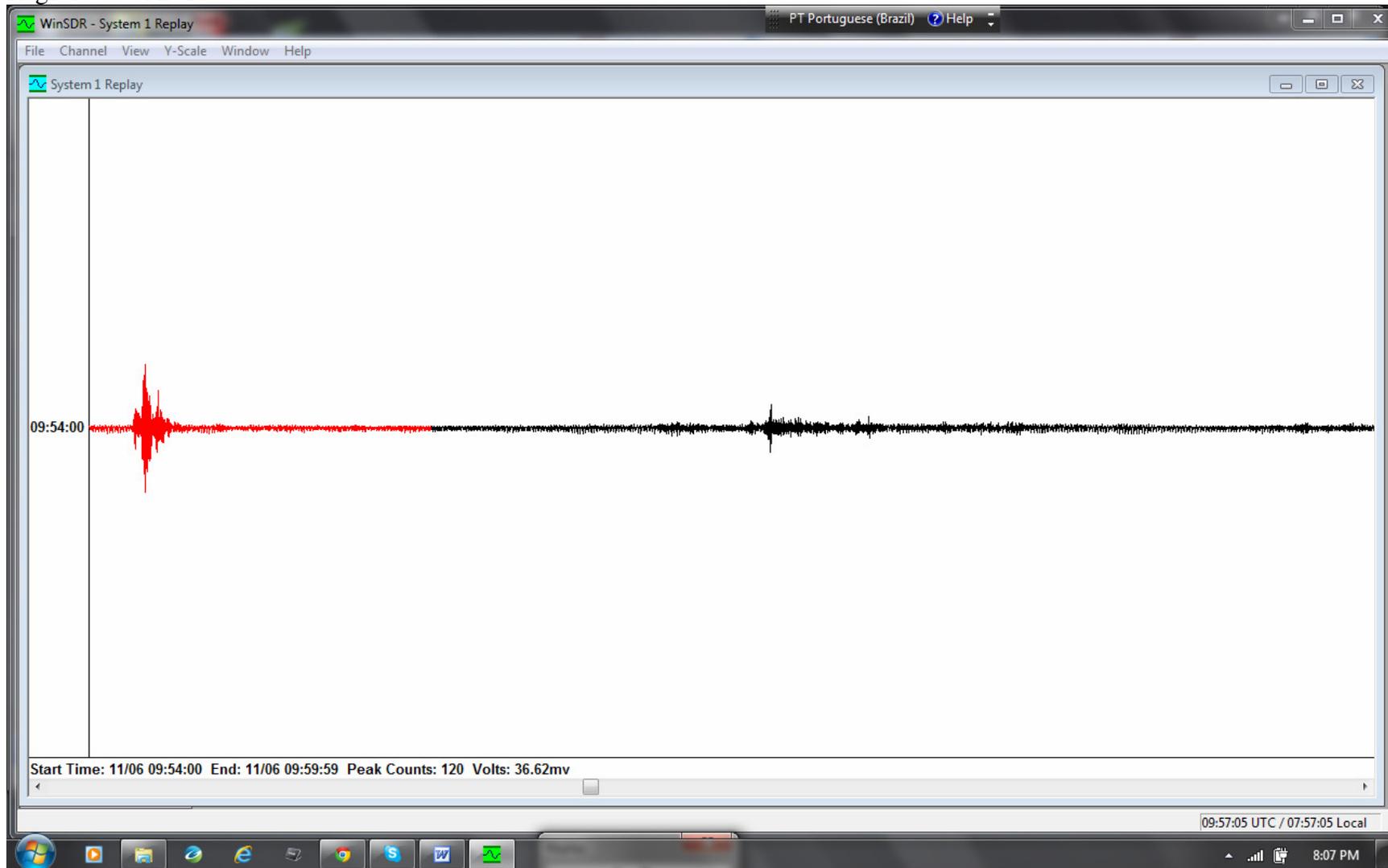
Eventos sobrepostos:

Start: 11/06/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2667/-2399 X: 2.22.0 Y: 2.7kc
Org: 9:54:13.5 P: 9:54:28.4 S: 9:54:39.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

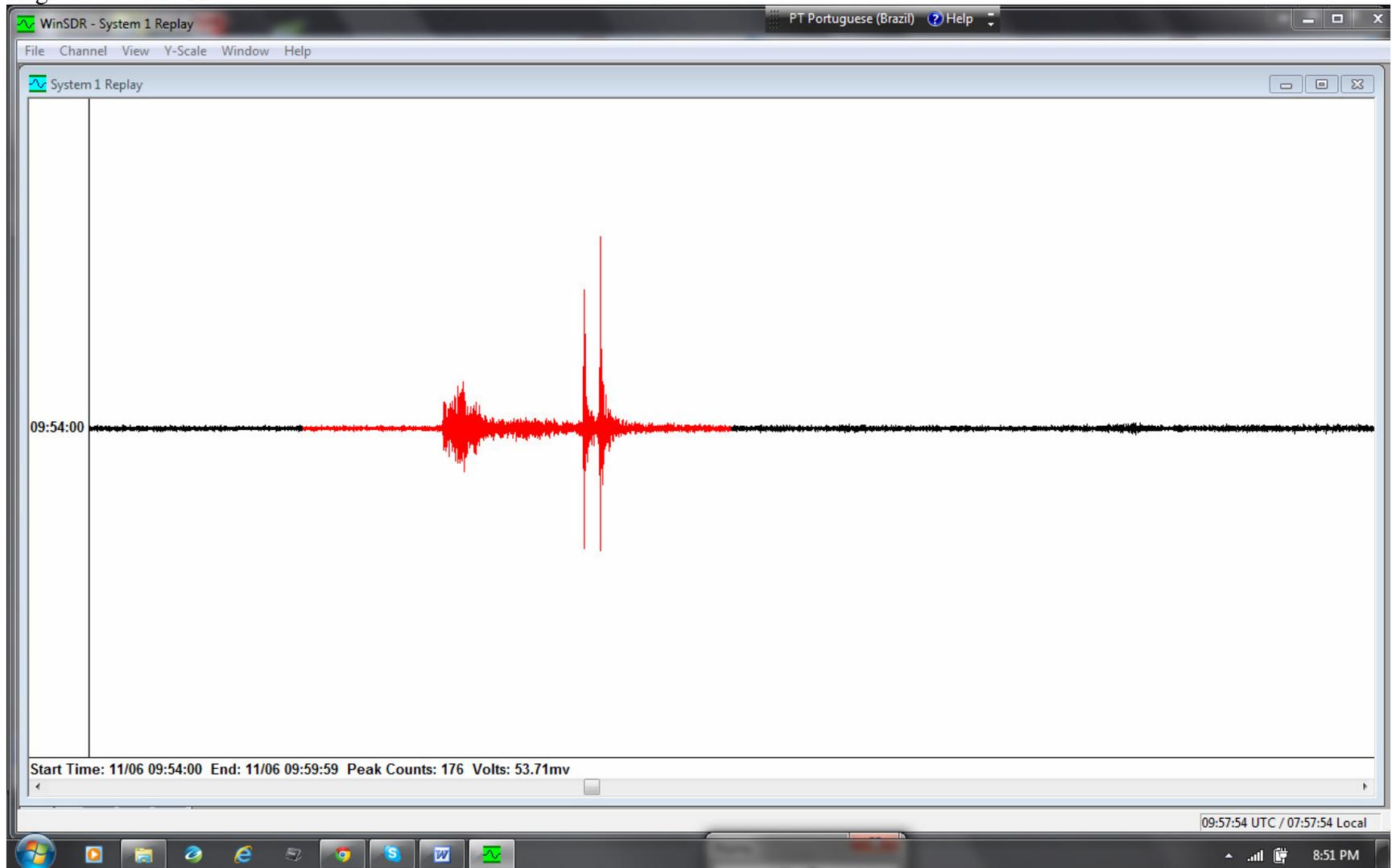


Evento 2

Registro de SANT1:

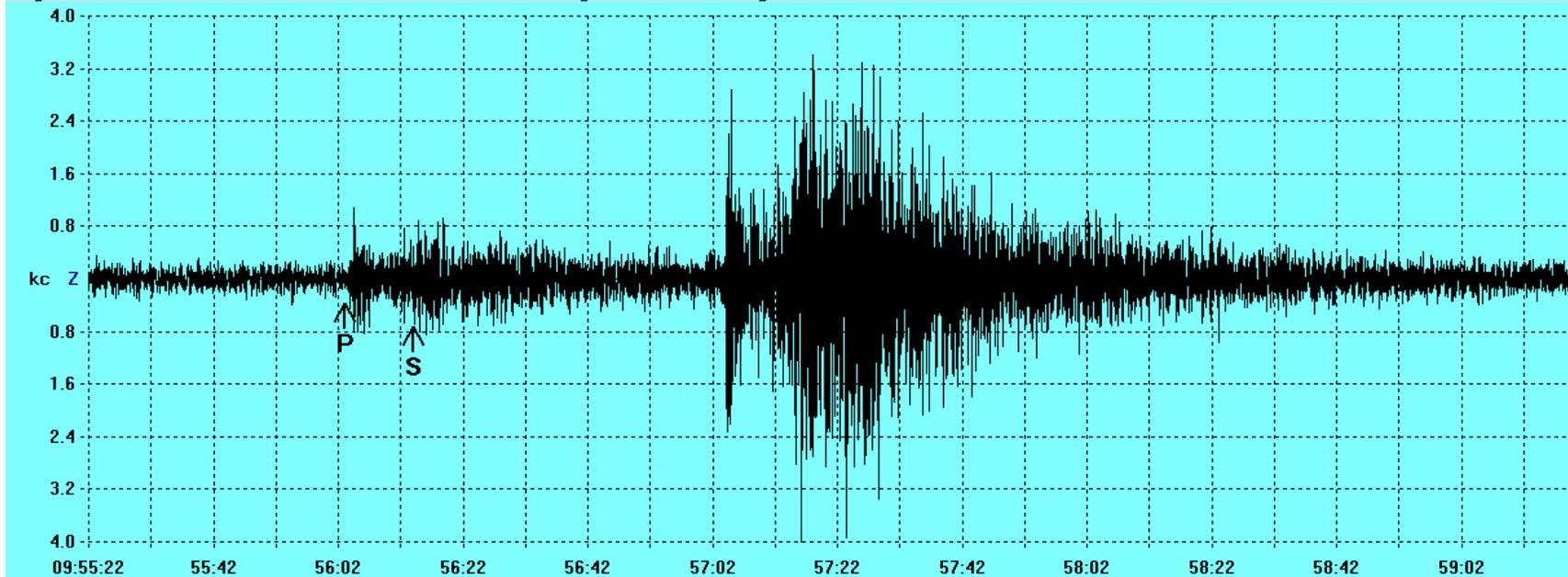


Registro de SANT2:



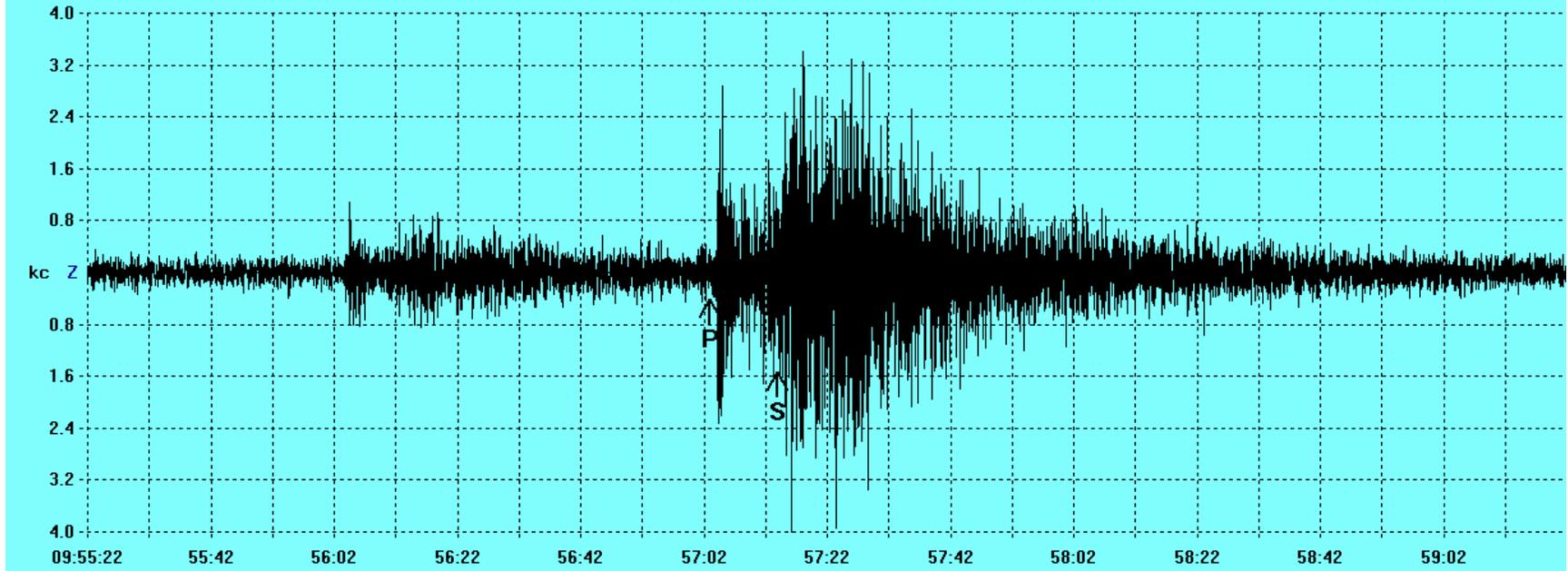
Eventos sobrepostos:

Start: 11/08/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3404/-3995 X: 4:00.0 Y: 4kc
Org: 9:55:48.1 P: 9:56:03.0 S: 9:56:14.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



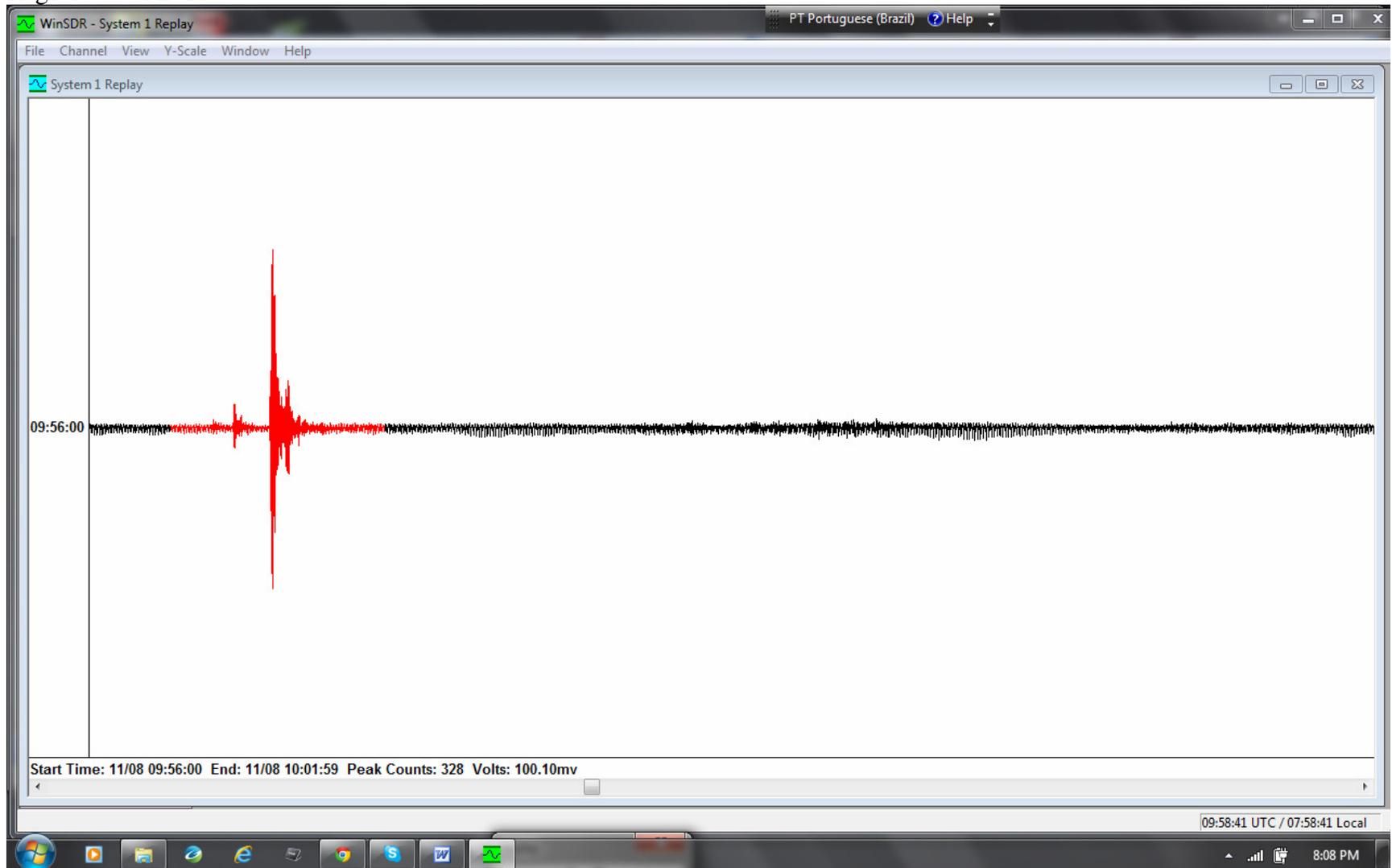
Evento 3

Start: 11/08/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3404/-3995 X: 4:00.0 Y: 4kc
Org: 9:56:48.0 P: 9:57:02.9 S: 9:57:13.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

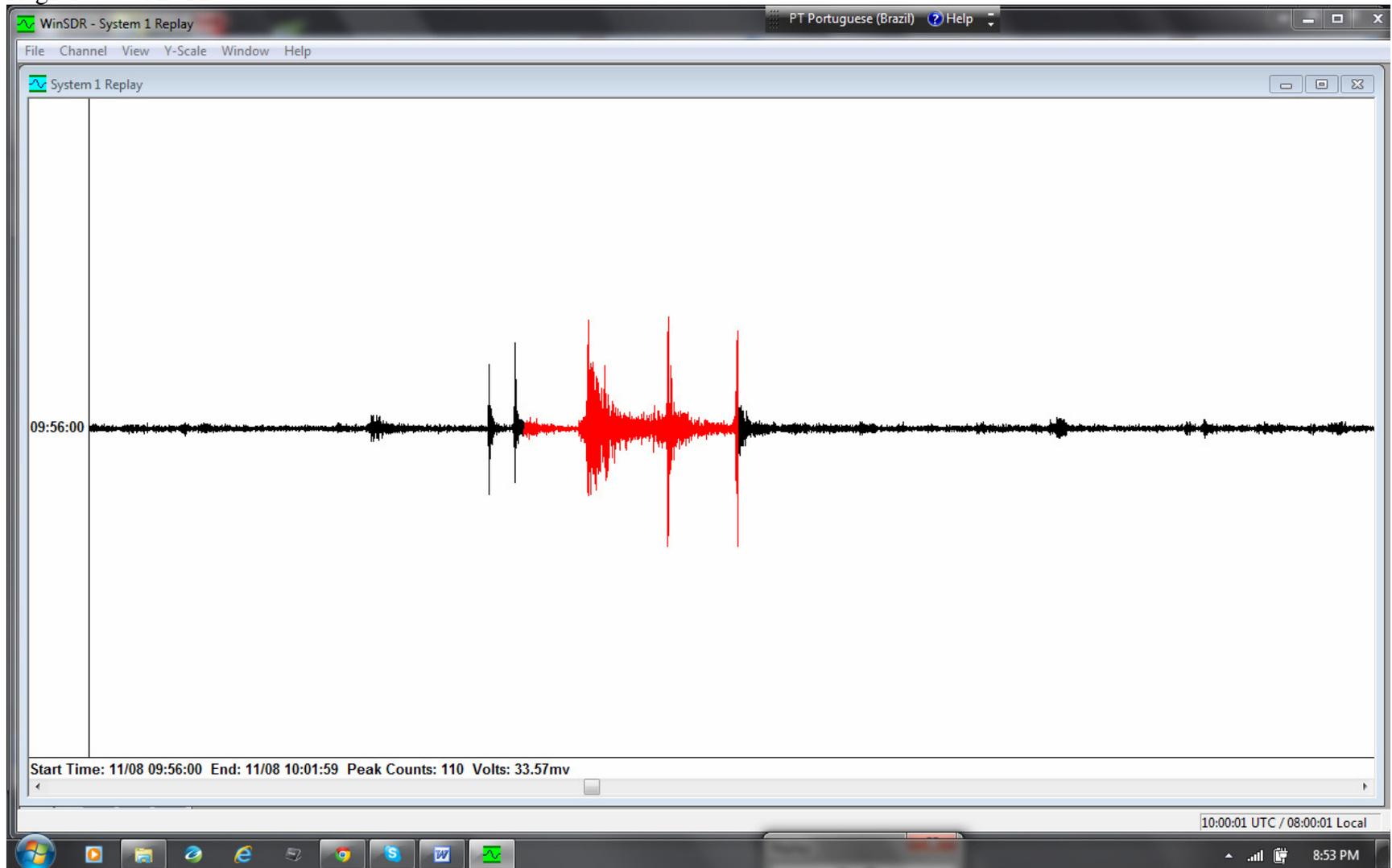


Evento 3

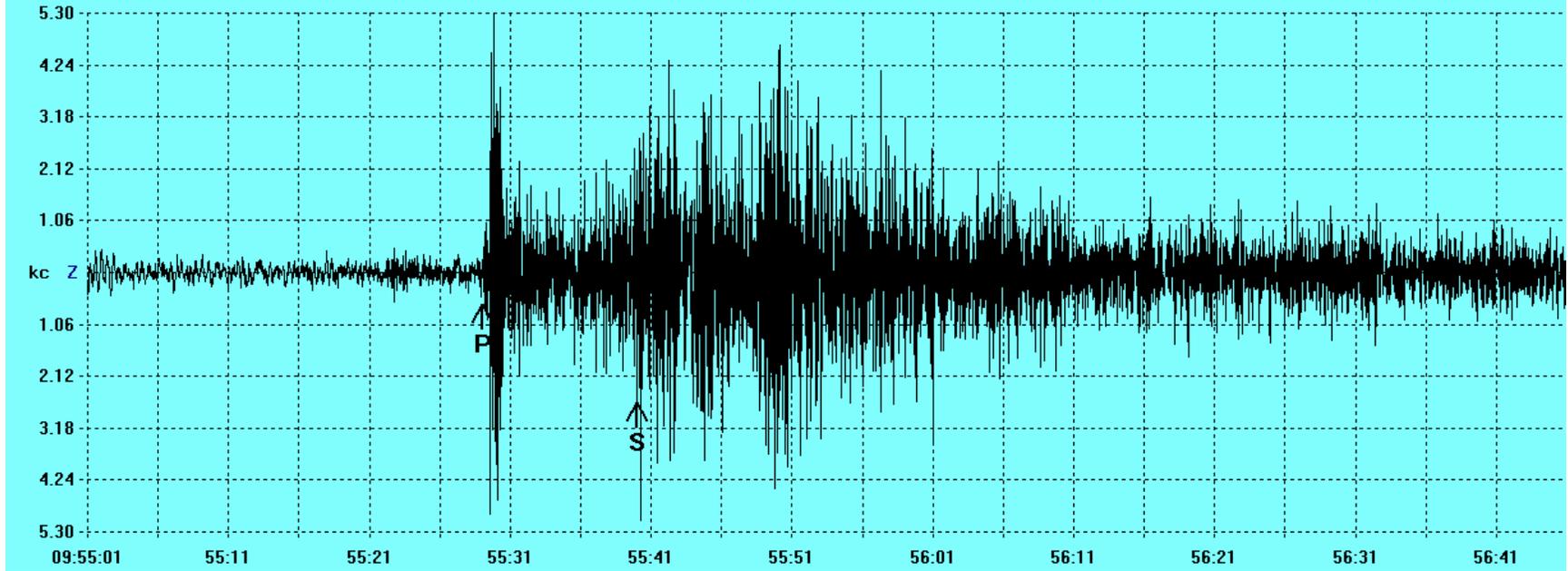
Registro de SANT1:



Registro de SANT2:

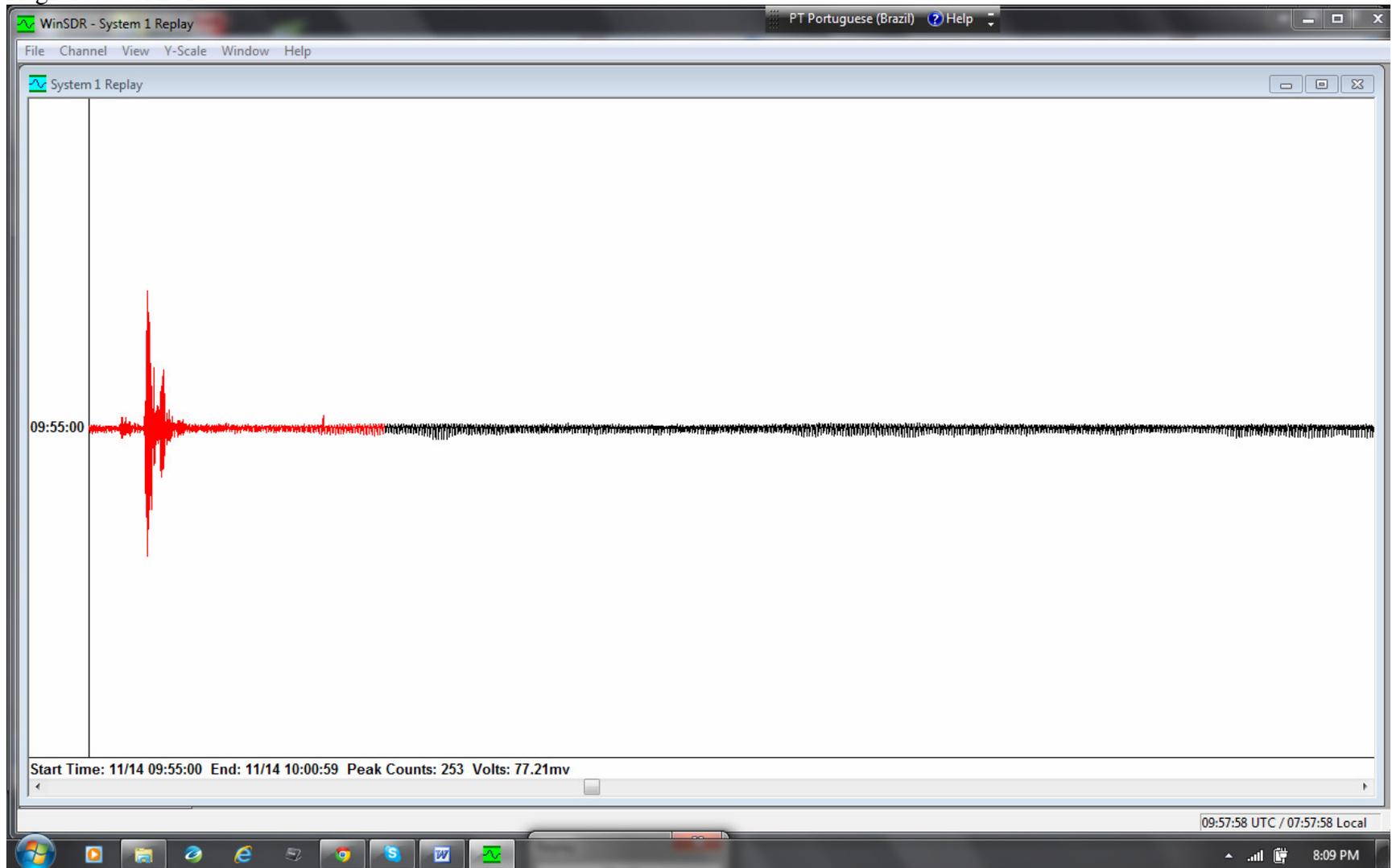


Start: 11/14/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 5297/-5061 X: 1:45.0 Y: 5.3kc
Org: 9:55:14.1 P: 9:55:29.0 S: 9:55:40.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

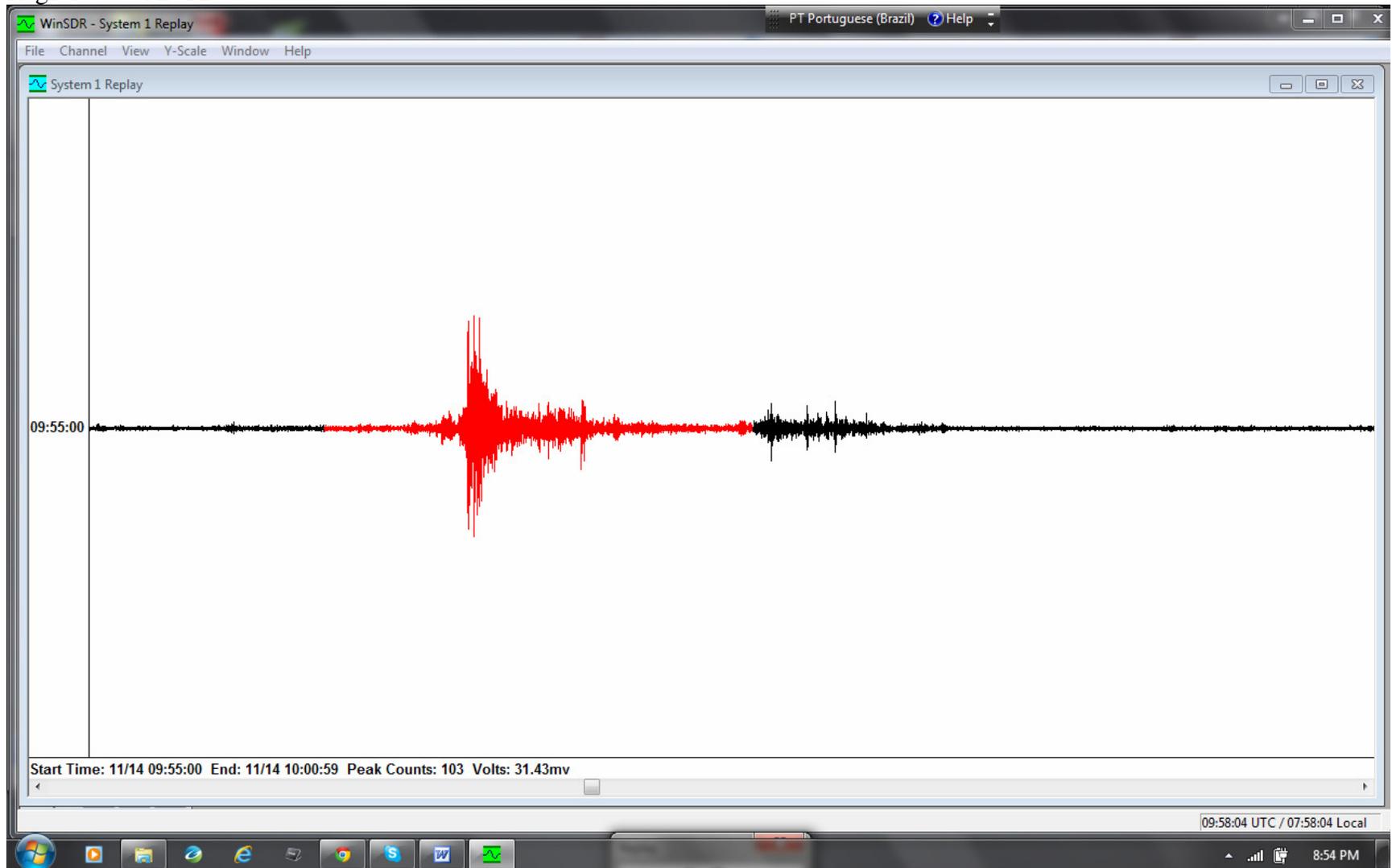


Evento 4

Registro de SANT1:

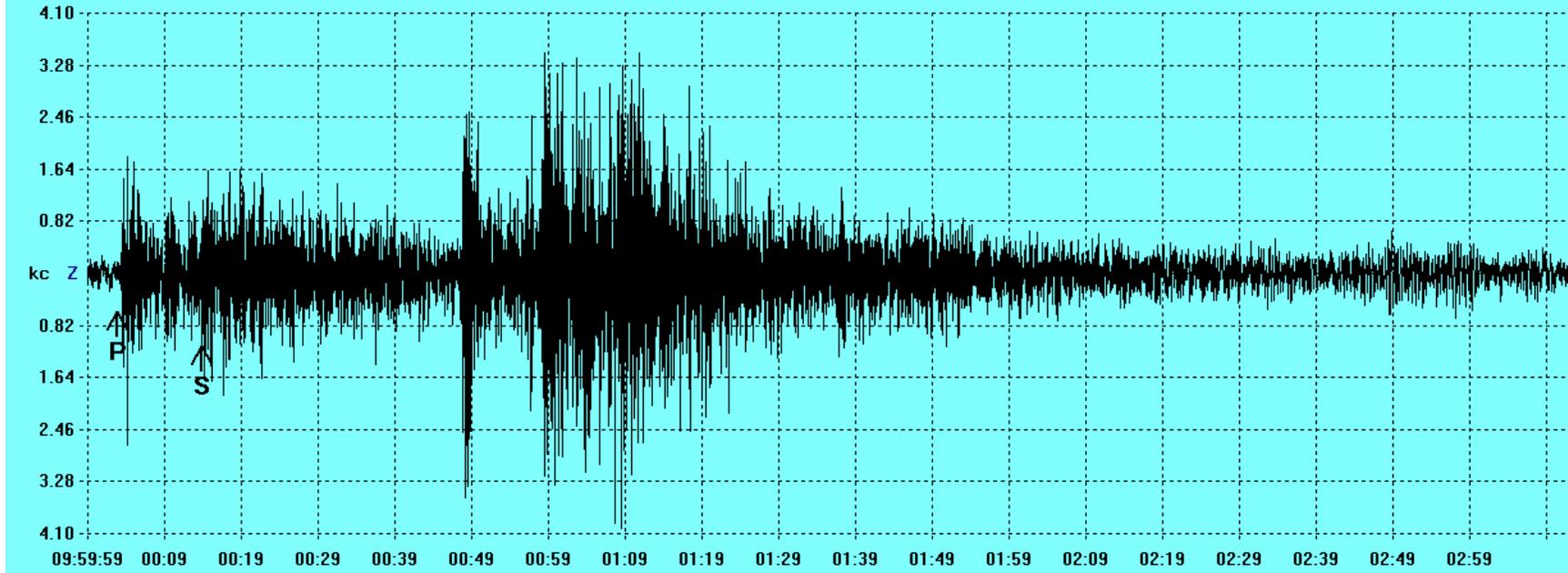


Registro de SANT2:



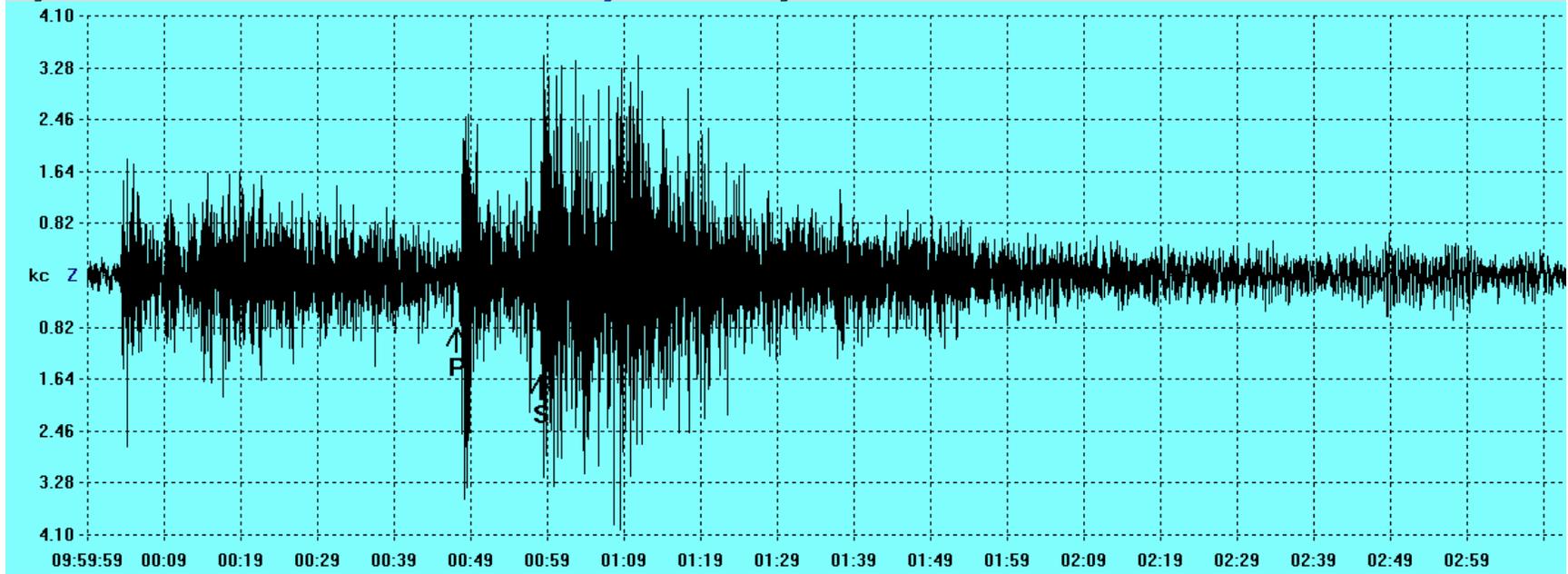
Eventos sobrepostos:

Start: 11/15/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3474/-4015 X: 3:13.0 Y: 4.1kc
Org: 9:59:47.9 P: 10:00:02.8 S: 10:00:13.8 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



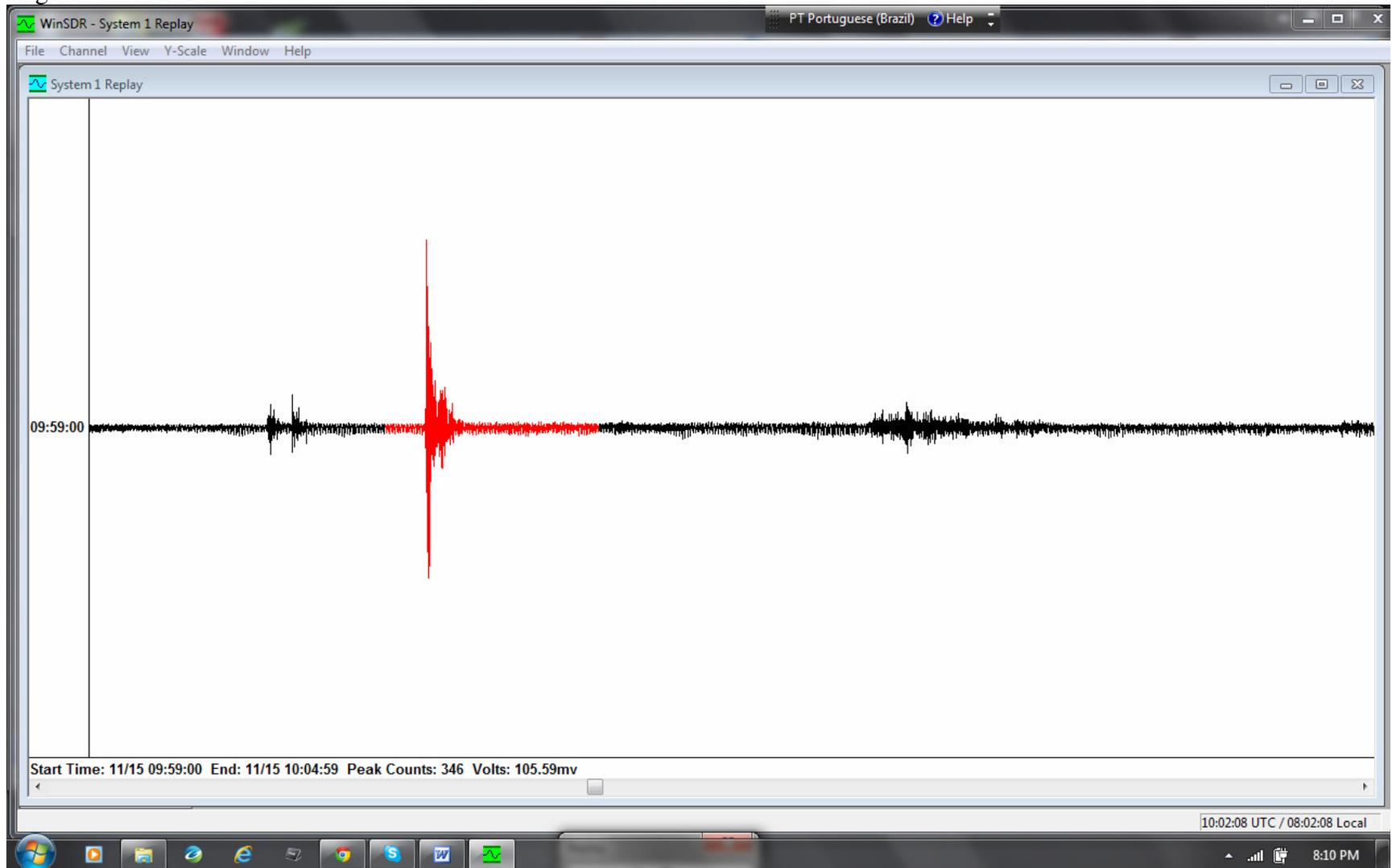
Evento 5

Start: 11/15/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3474/-4015 X: 3:13.0 Y: 4.1kc
Org: 10:00:32.3 P: 10:00:47.2 S: 10:00:58.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

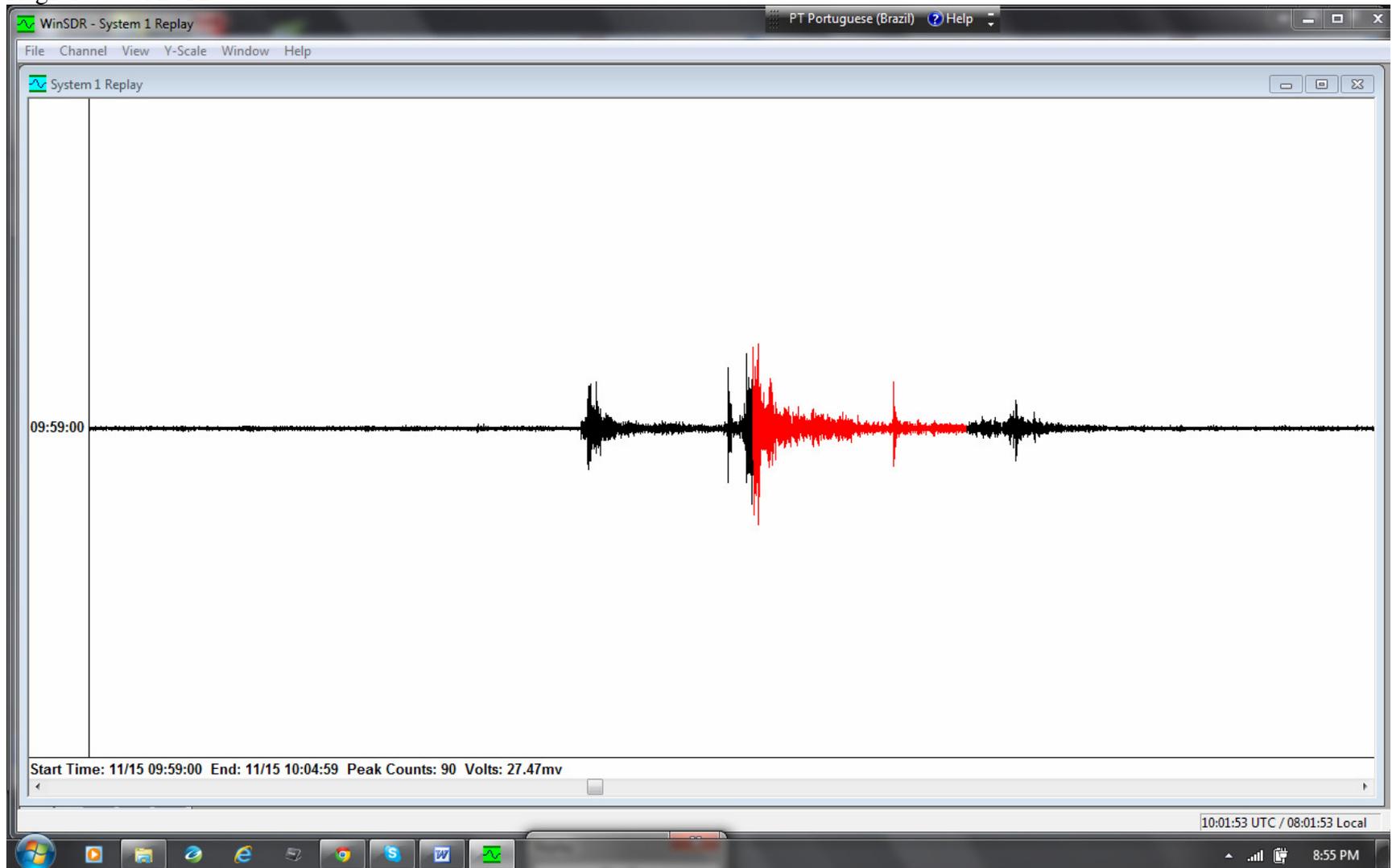


Evento 5

Registro de SANT1:

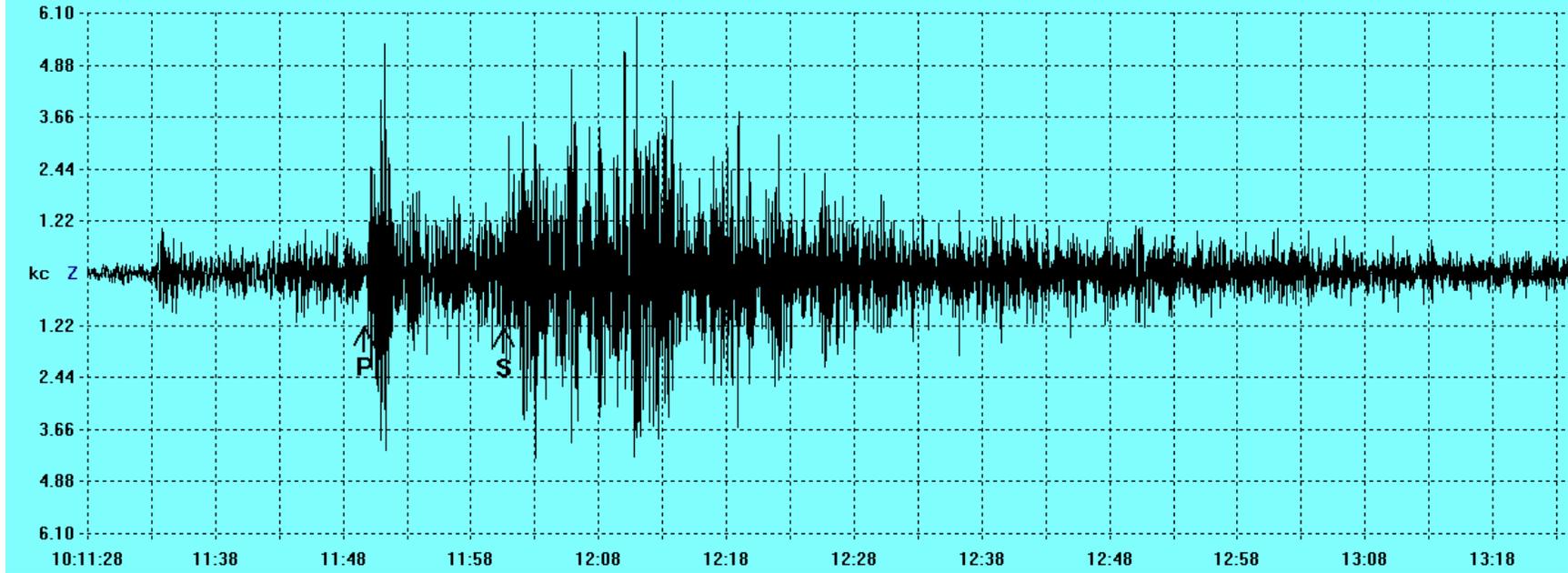


Registro de SANT2:



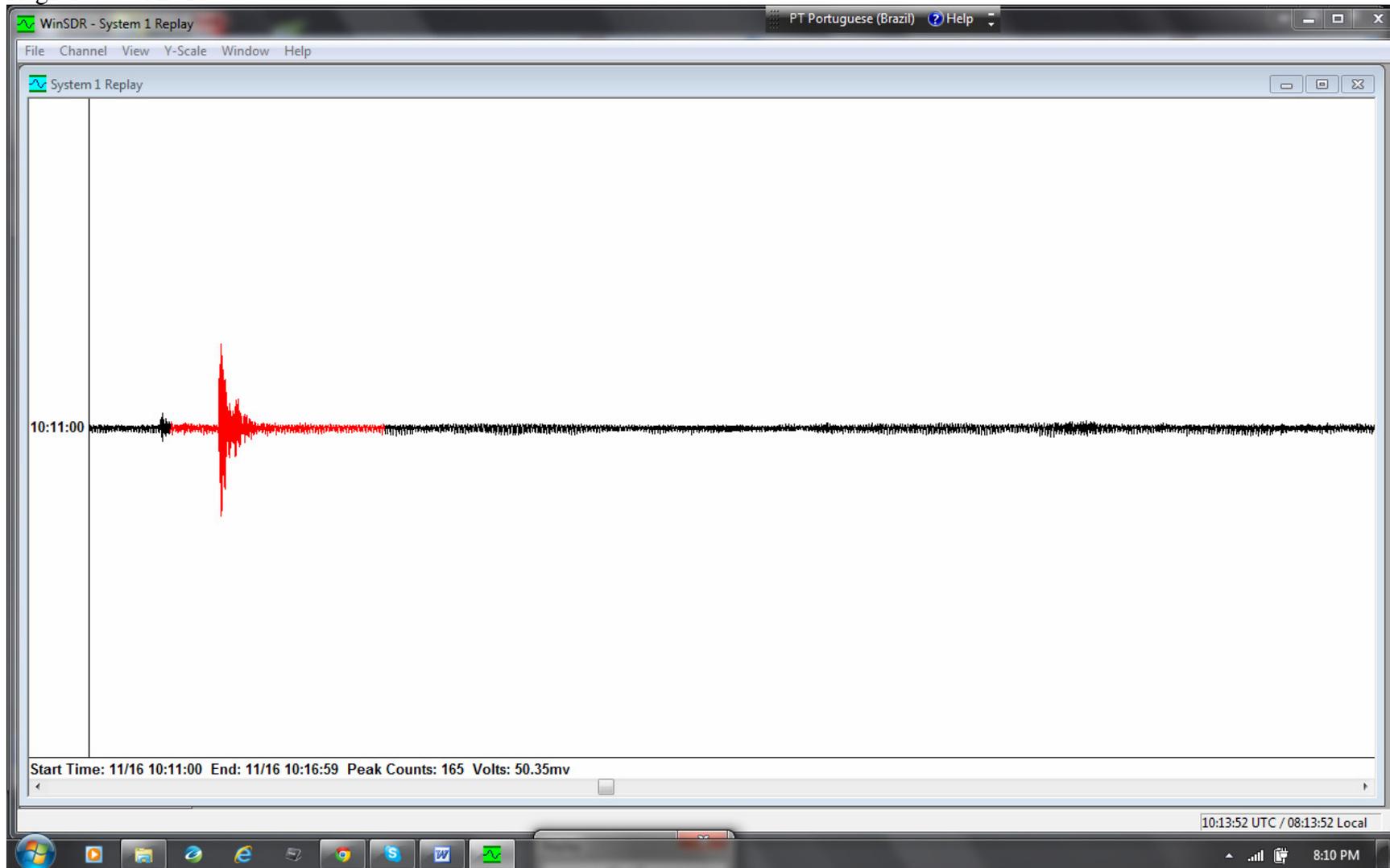
Eventos sobrepostos:

Start: 11/16/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6002/-4337 X: 1.56.0 Y: 6.1kc
Org: 10:11:34.7 P: 10:11:49.6 S: 10:12:00.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

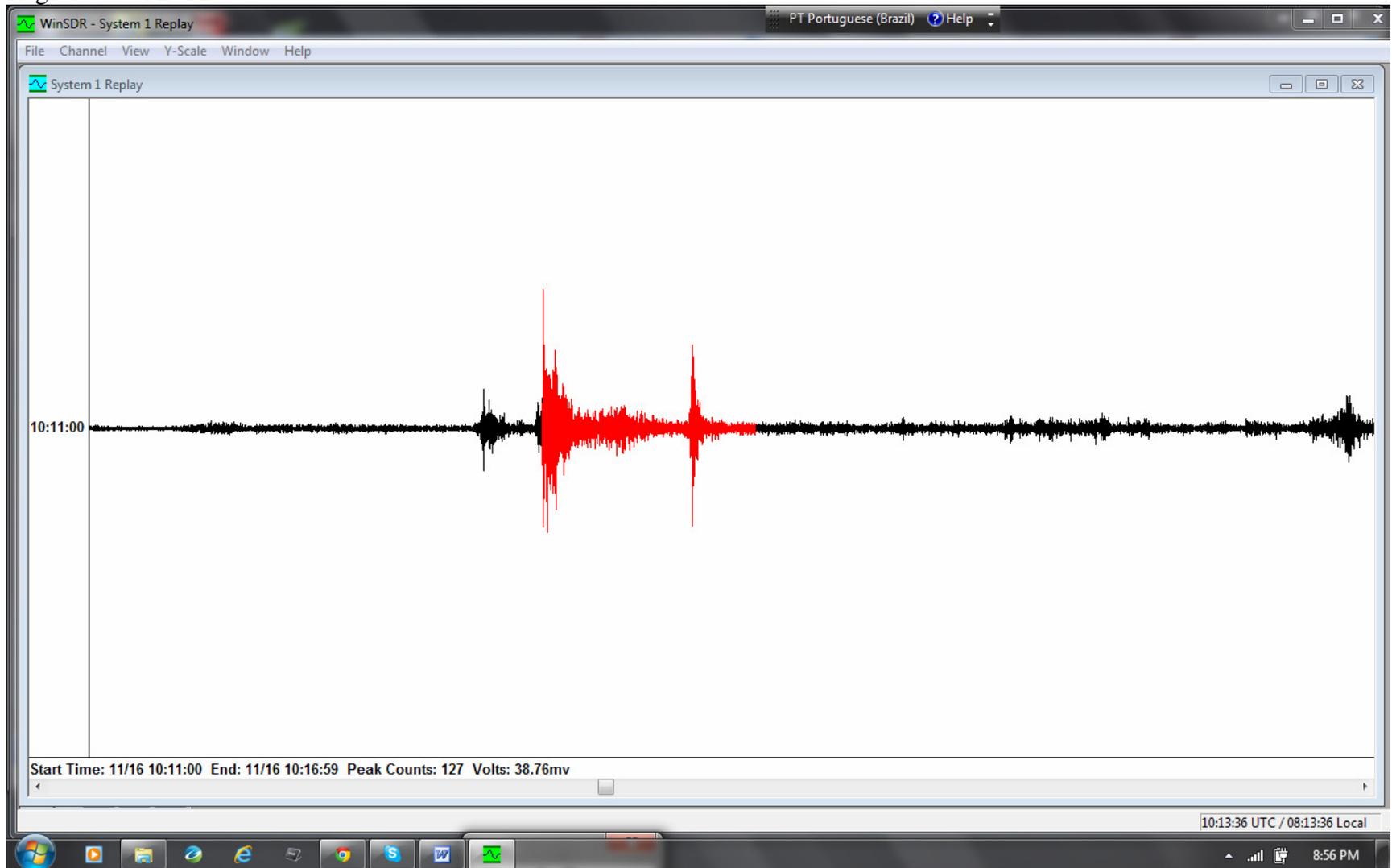


Evento 6

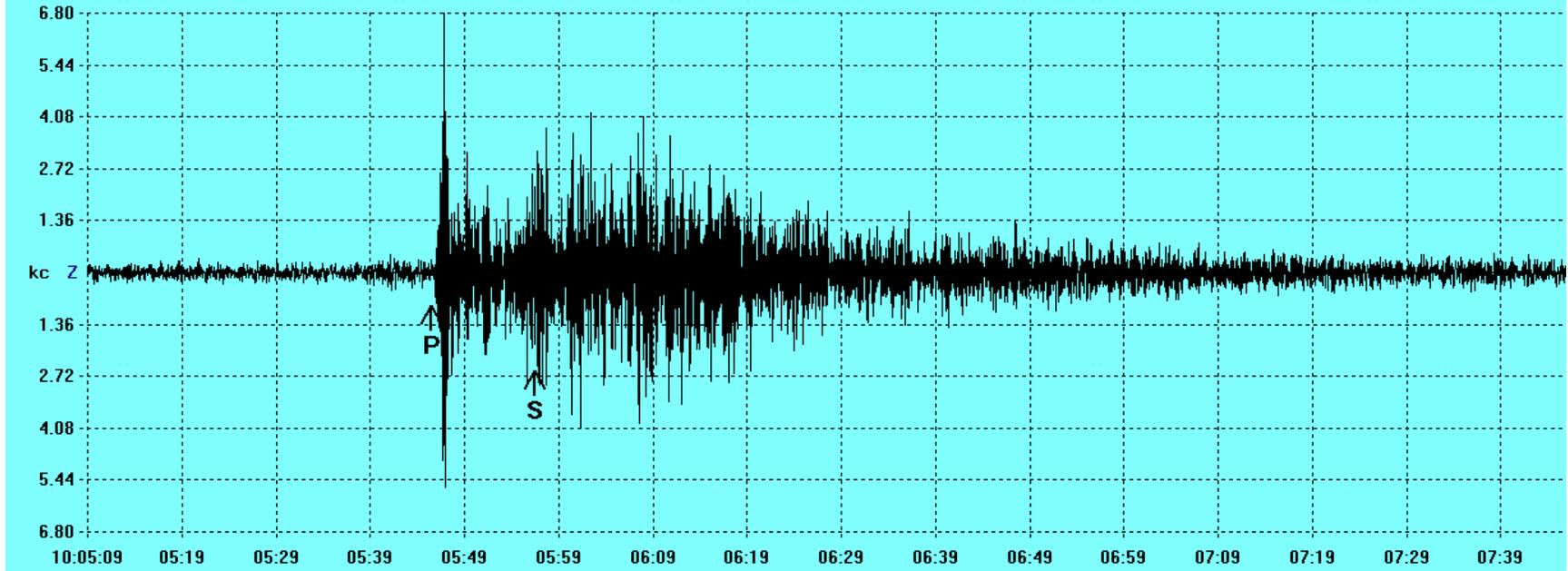
Registro de SANT1:



Registro de SANT2:

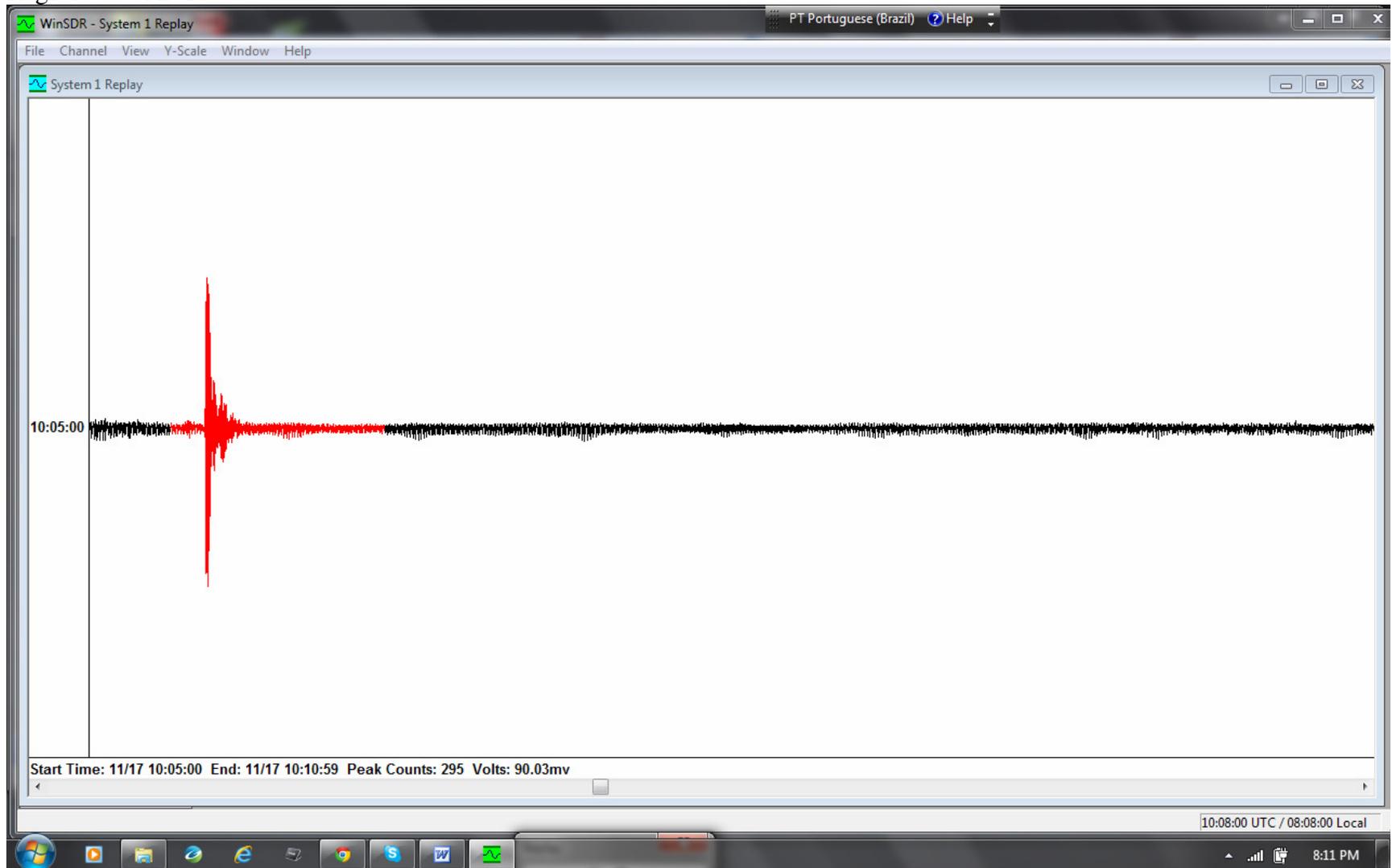


Start: 11/17/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6789/-5636 X: 2.37.0 Y: 6.8kc
Org: 10:05:30.6 P: 10:05:45.5 S: 10:05:56.5 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

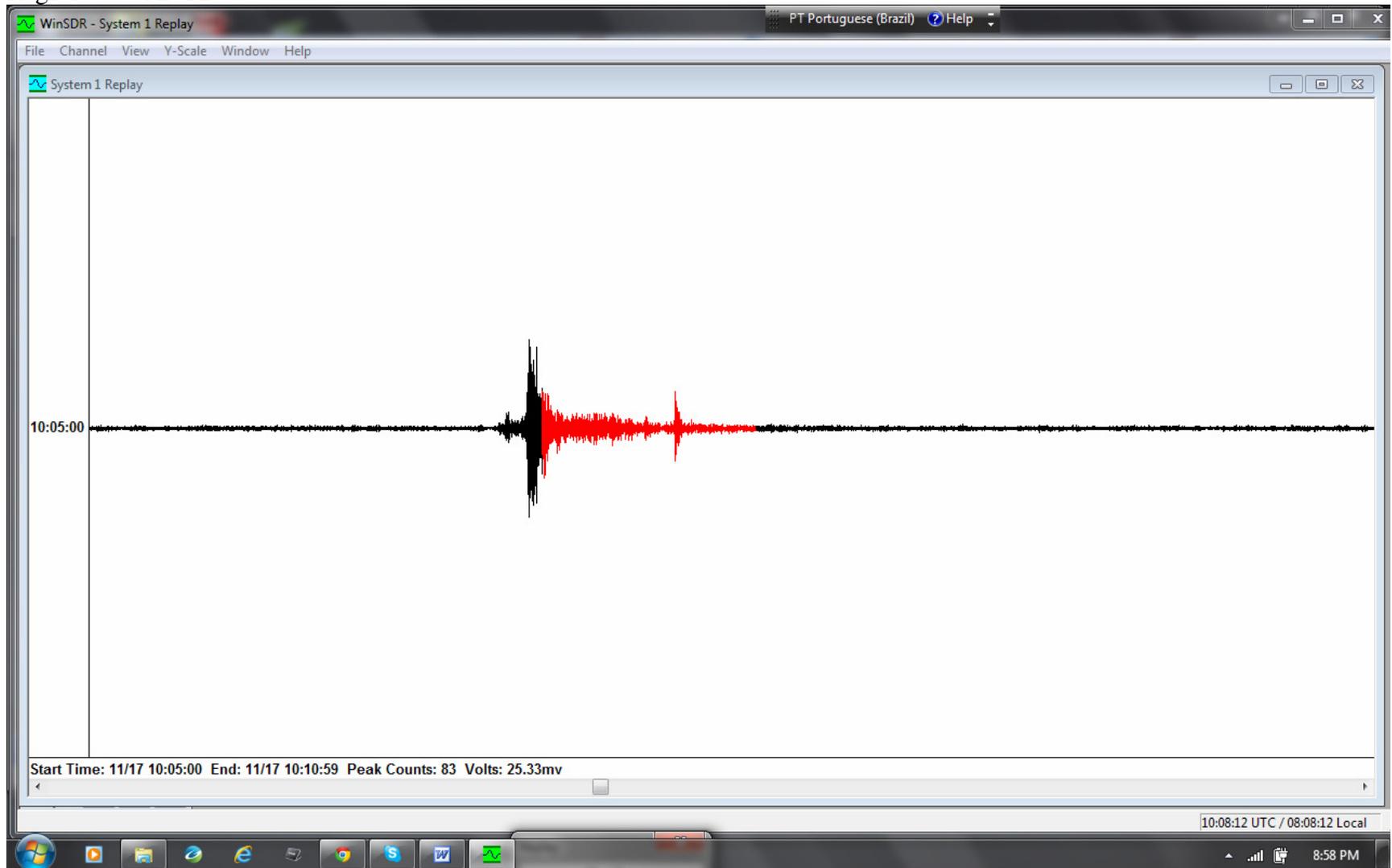


Evento 7

Registro de SANT1:

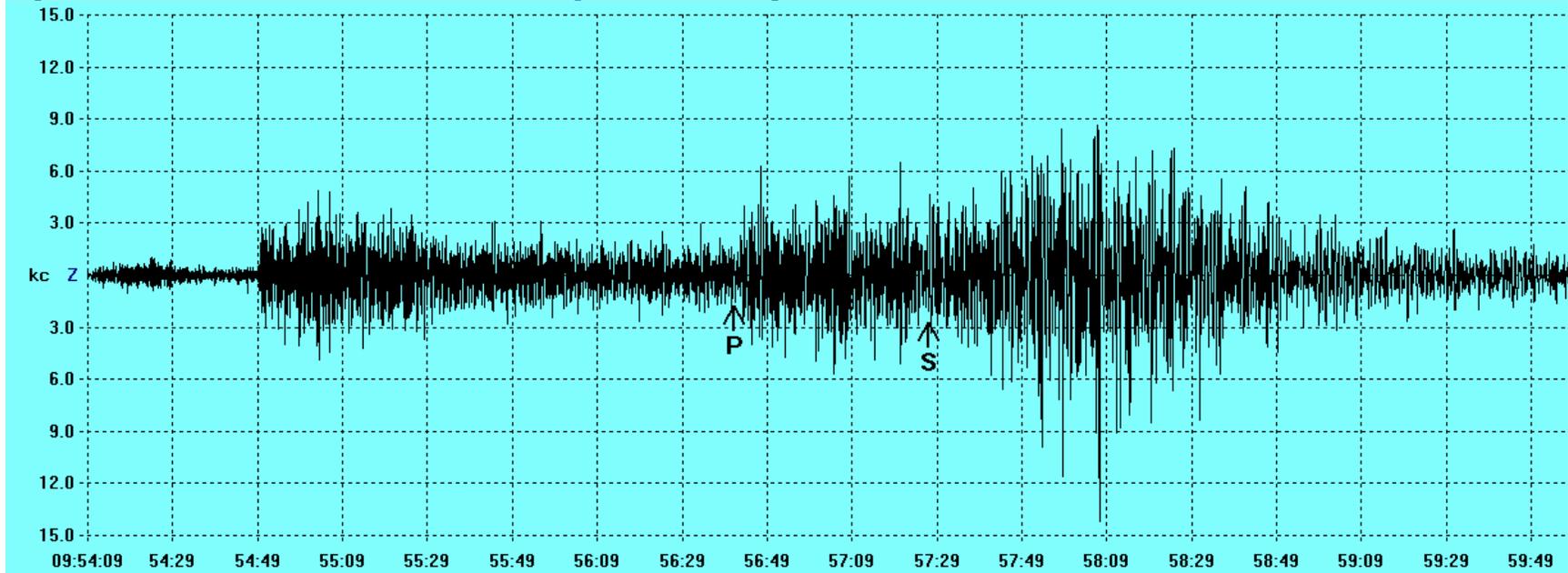


Registro de SANT2:



Sismo regional:

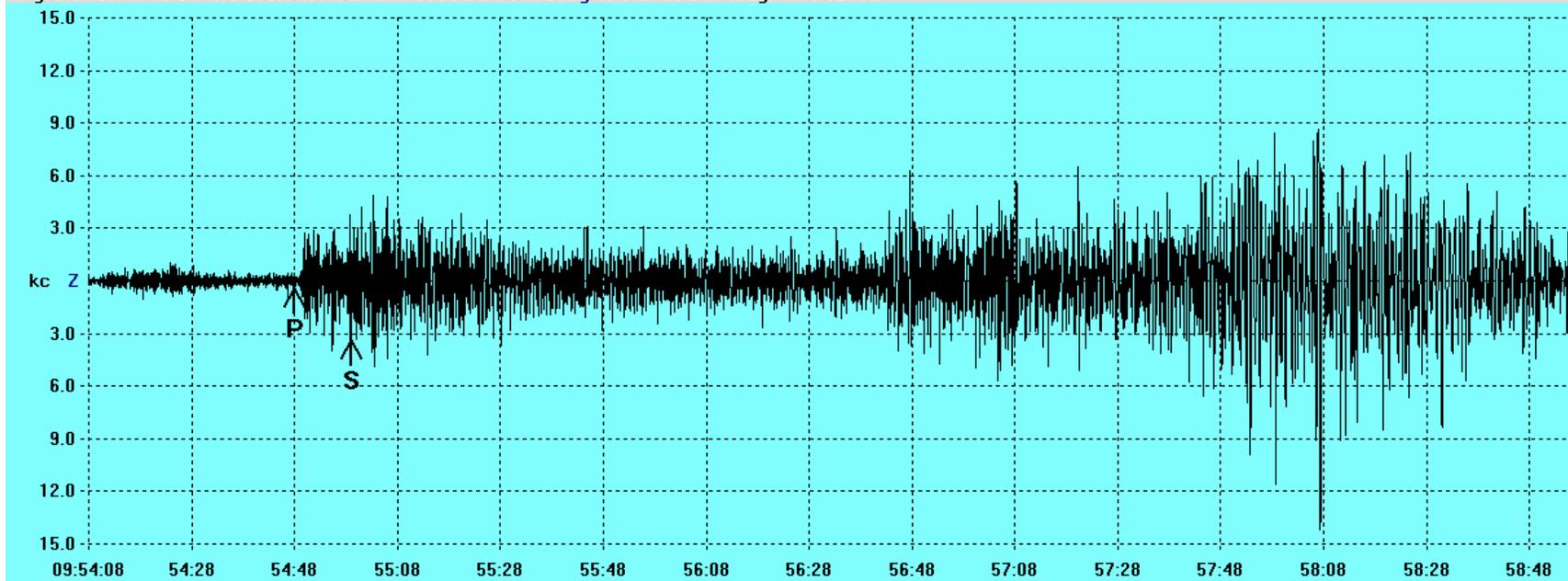
Start: 11/18/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 8632/-14150 X: 5:49.0 Y: 15kc
Org: 9:55:41.5 P: 9:56:41.2 S: 9:57:27.0 Diff: 45.8sec Dist: 3.946deg 438.8km 272.6mi Mag: MI?? JB: 33



Evento 8

Detalhes do sismograma acima:

Start: 11/18/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 8632/-14150 X: 4:51.0 Y: 15kc
Org: 9:54:33.1 P: 9:54:48.0 S: 9:54:59.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

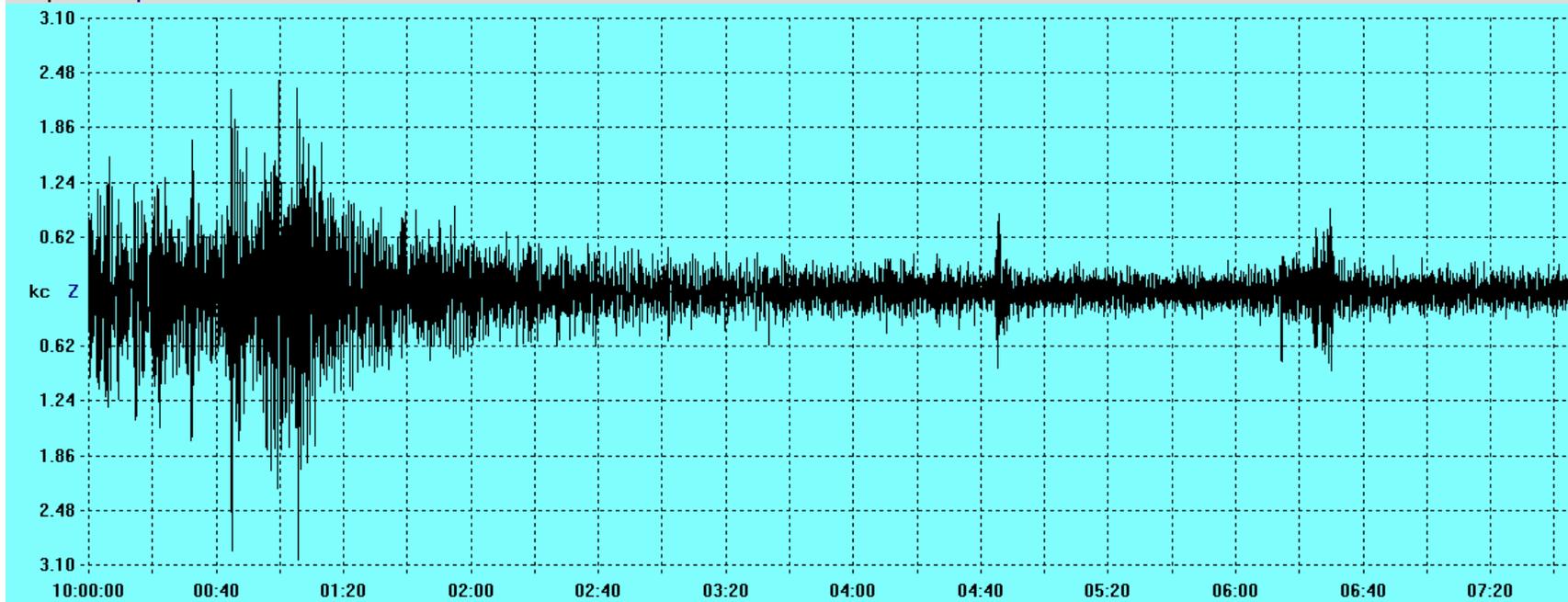


Evento 8

Hora consecutiva à do sismograma acima:

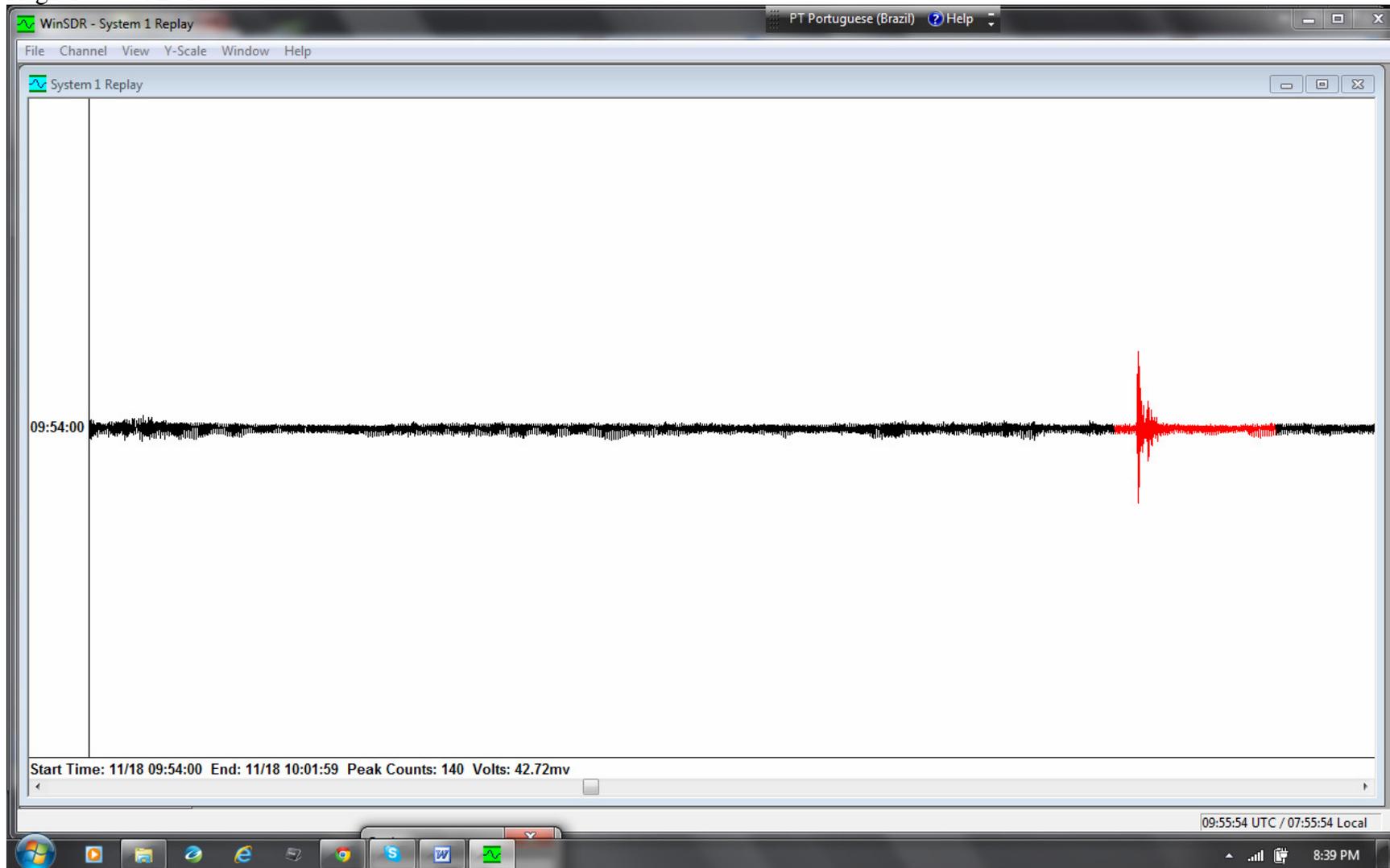
Start: 11/18/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 2392/-3044 X: 7:50.0 Y: 3.1kc

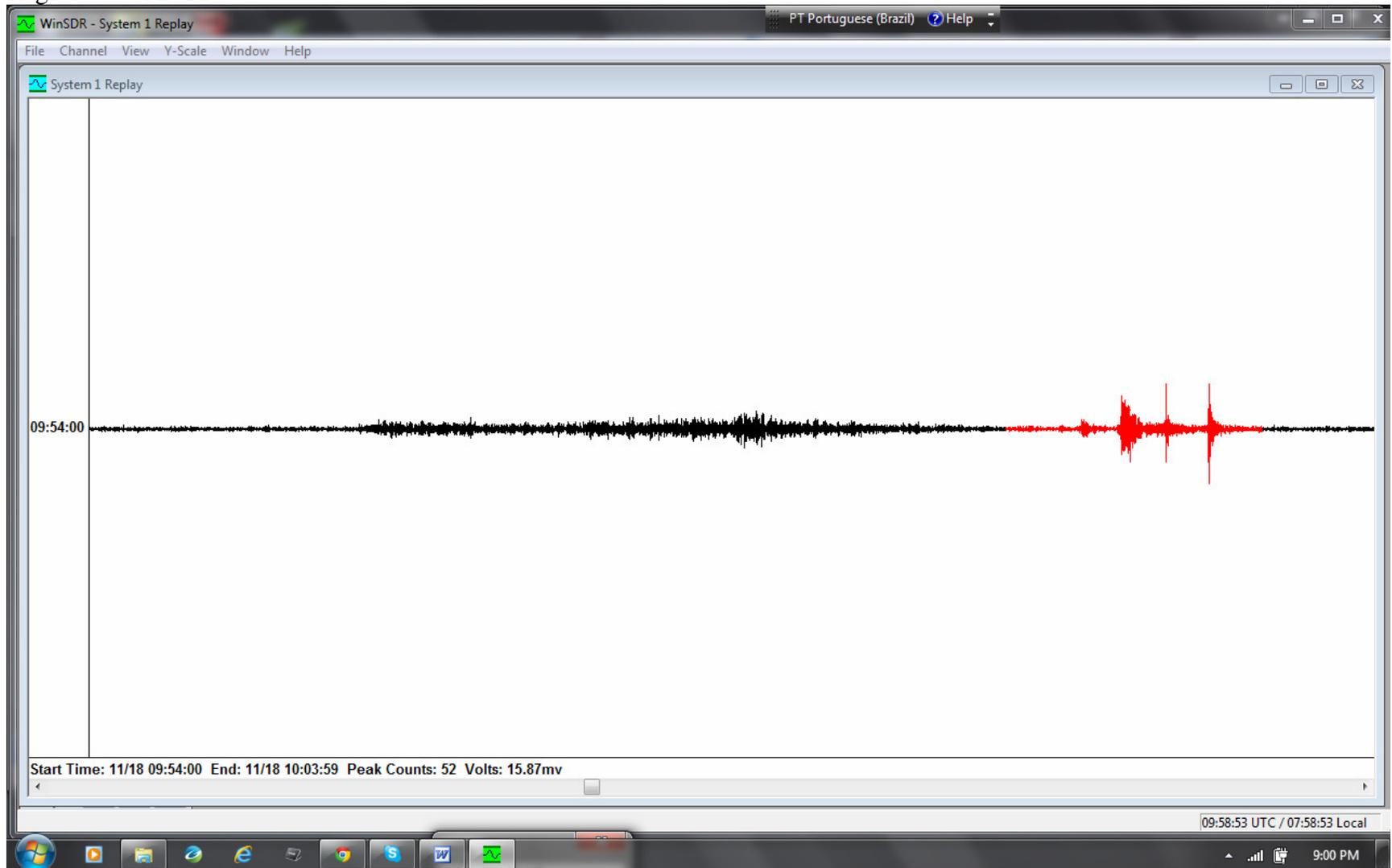


Telessismo

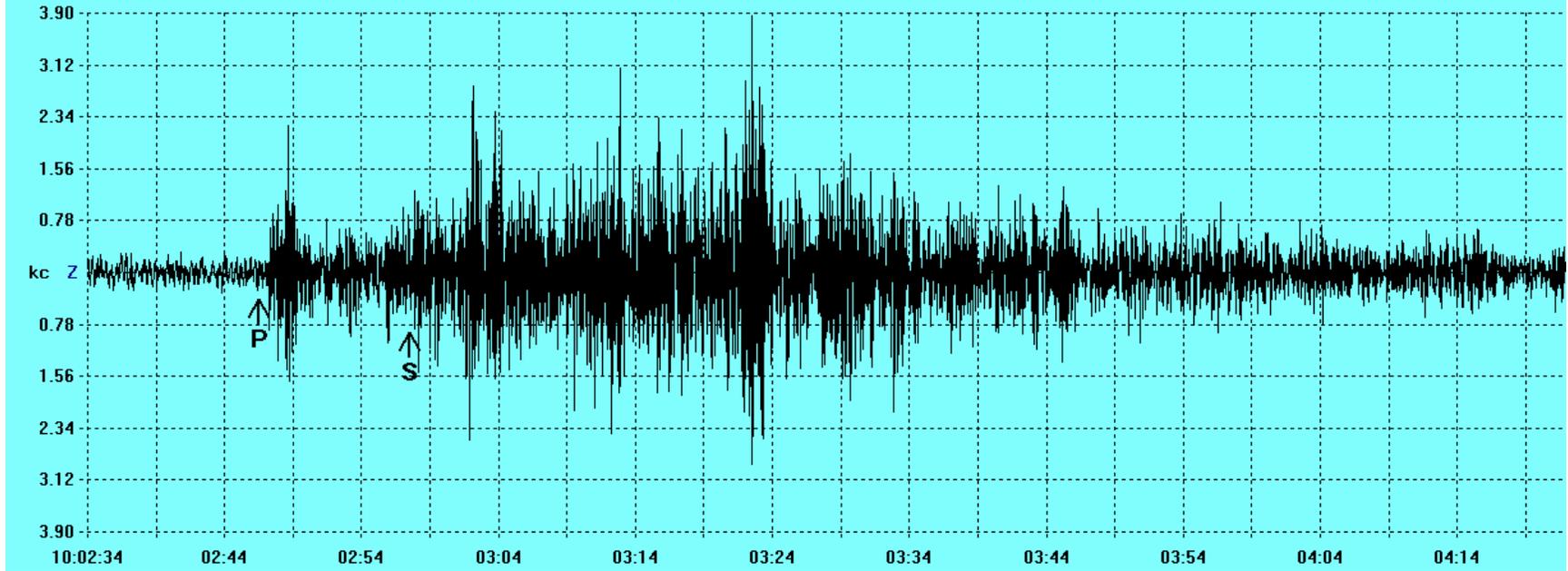
Registro de SANT1:



Registro de SANT2:

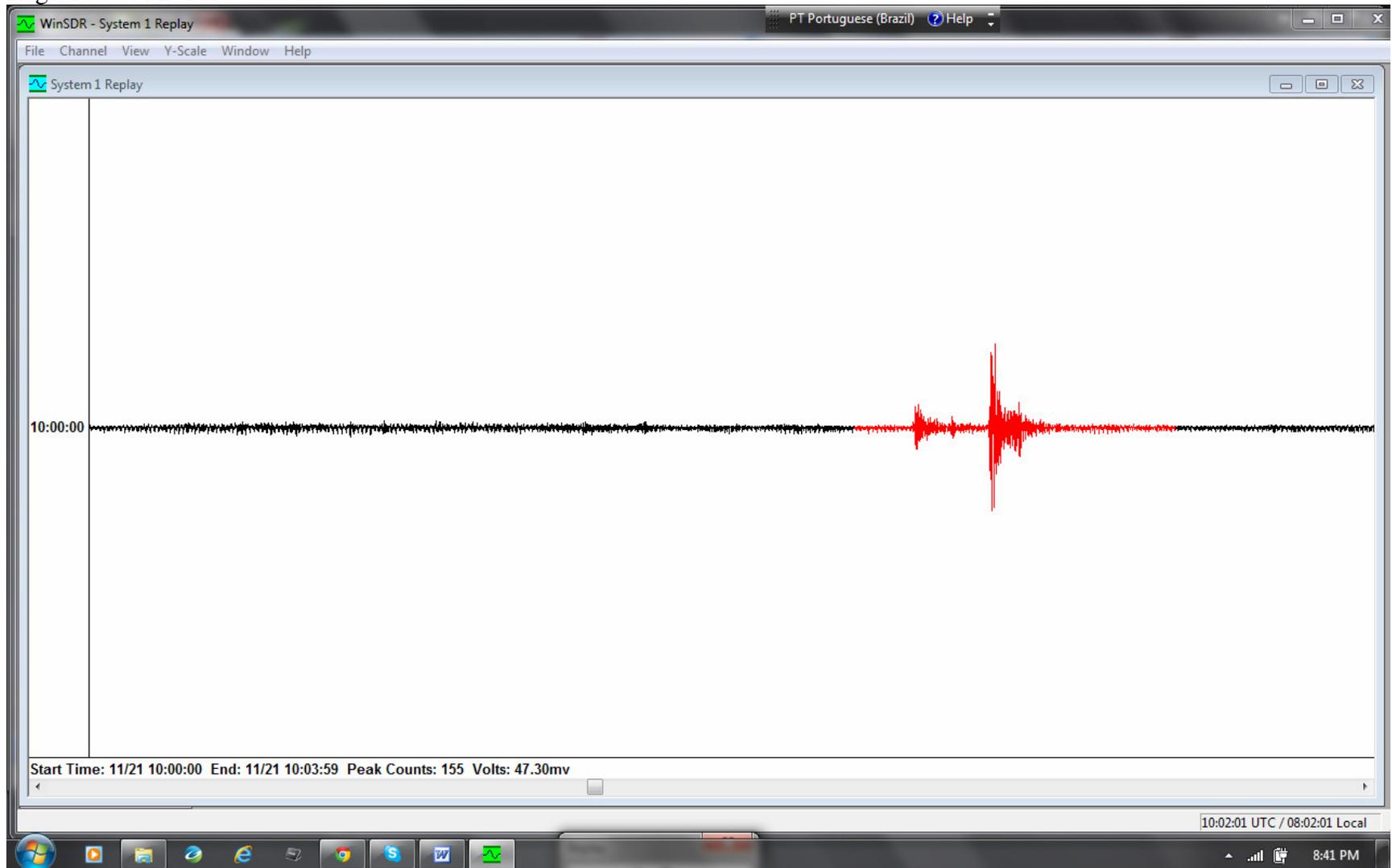


Start: 11/21/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3870/-2873 X: 1:48.0 Y: 3.9kc
Org: 10:02:31.6 P: 10:02:46.5 S: 10:02:57.5 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 9

Registro de SANT1:



Principais Telessismos Registrados no Canteiro de Obras da UHE Santo Antônio

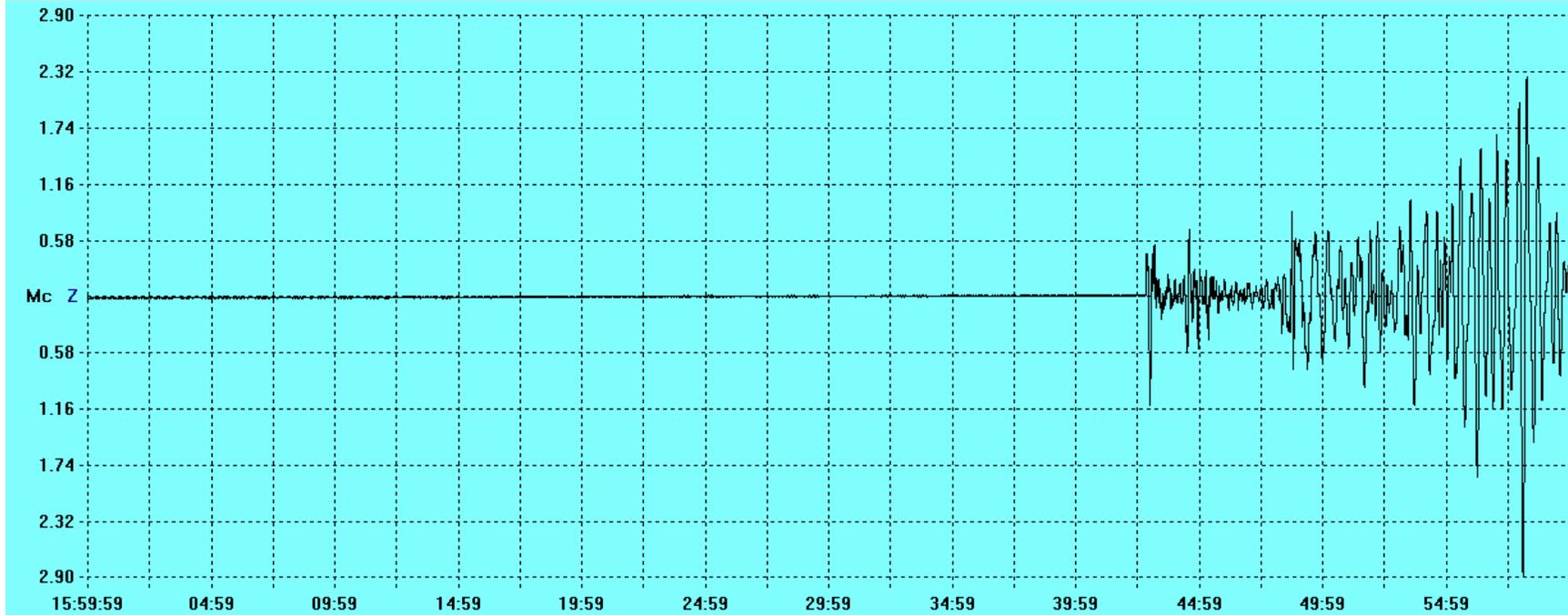
**Novembro
2012**

Registros da Estação SAML

O sismograma a seguir não foi filtrado:

Start: 11/07/12 15:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 2255294/-2894063 X: 1:00:00 Y: 2.9Mc

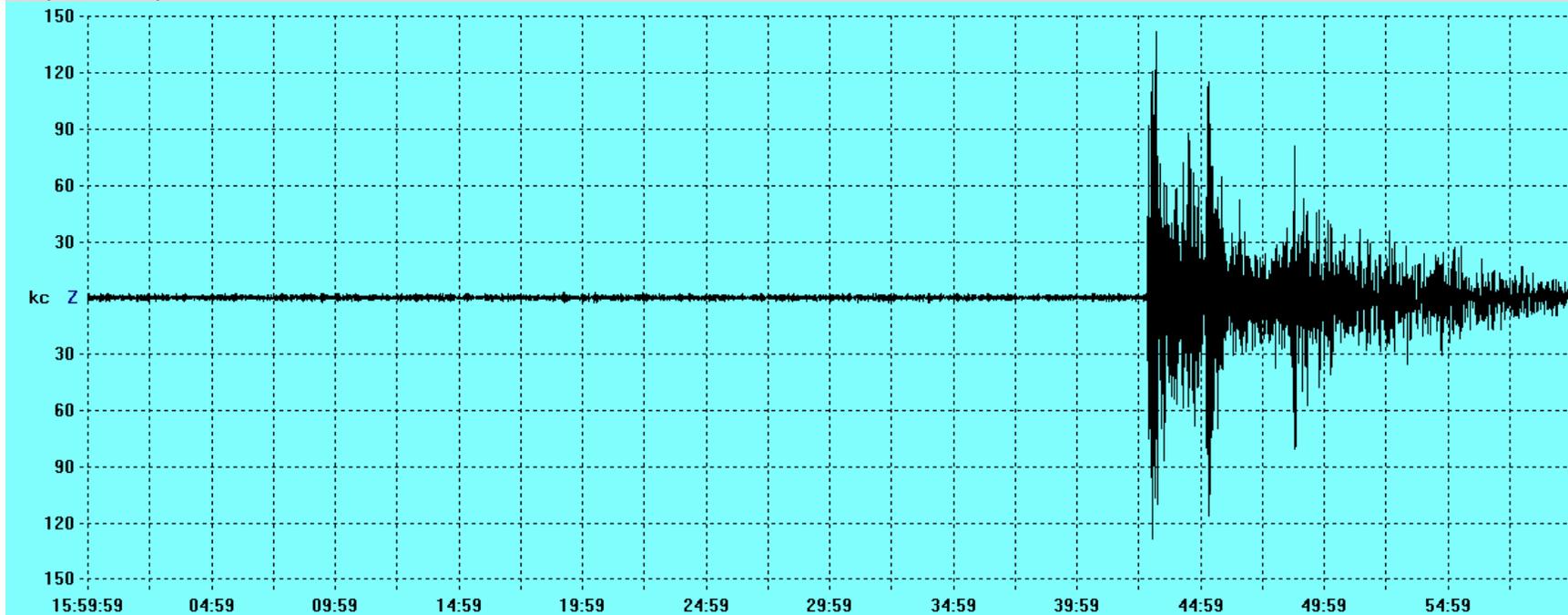


Telessismo: PDE-Q 2012 11 07 163546.87 13.98 -91.88 24 7.4 MwWCMT

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 11/07/12 15:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 141337/-128488 X: 1:00:00 Y: 150kc

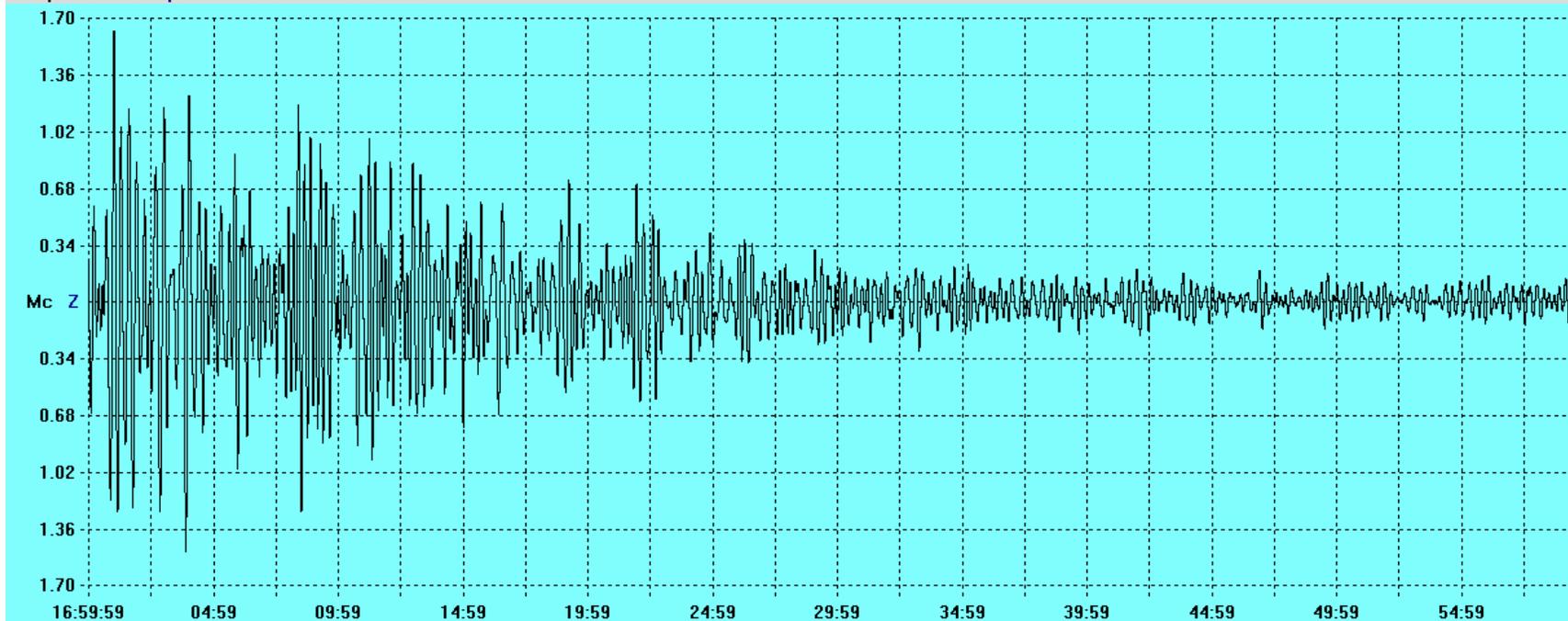


Telessismo: PDE-Q 2012 11 07 163546.87 13.98 -91.88 24 7.4 MwWCMT

Hora consecutiva à do sismograma acima (sismograma não filtrado):

Start: 11/07/12 16:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 1622430/-1494292 X: 1:00:00 Y: 1.7Mc

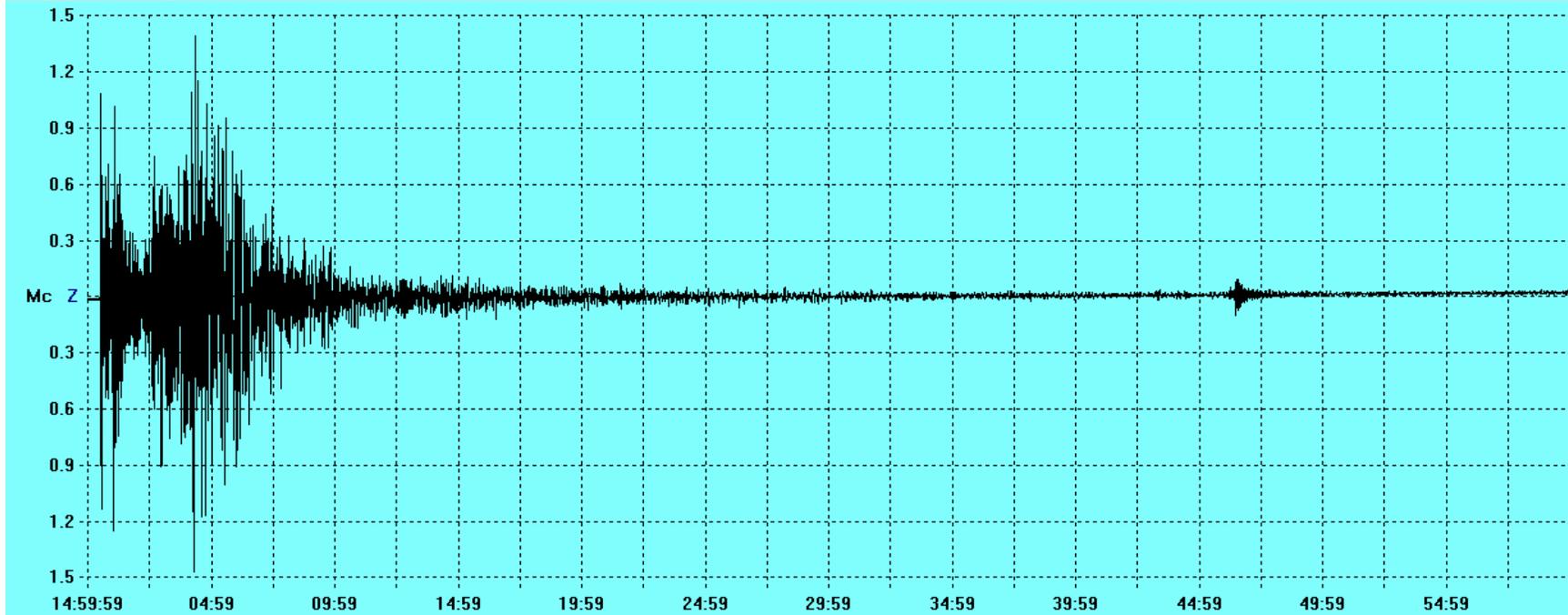


Telessismo: PDE-Q 2012 11 07 163546.87 13.98 -91.88 24 7.4 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 11/10/12 14:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 1385745/-1466429 X: 1:00:00 Y: 1.5Mc

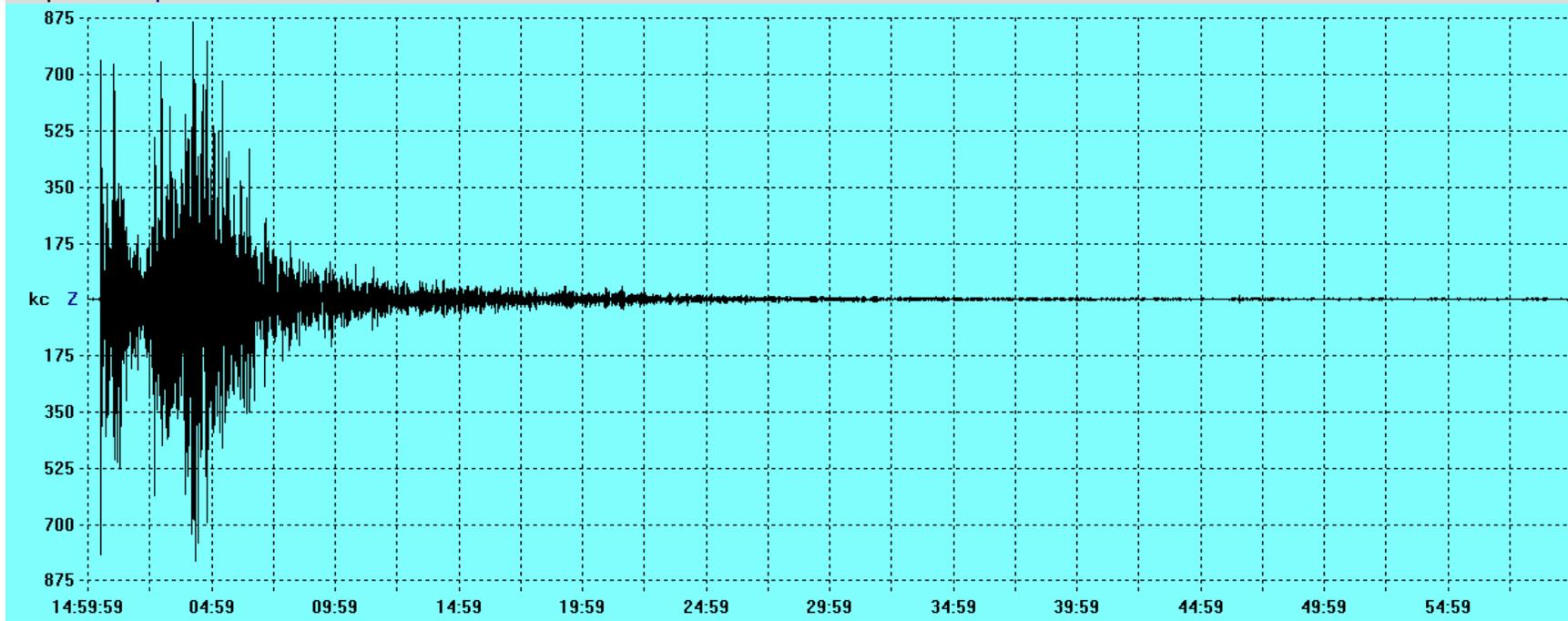


Telessismo: PDE-Q 2012 11 10 145750.73 -8.86 -75.07 129 6.0 MwWCMT

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 11/10/12 14:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 860659/-814811 X: 1:00:00 Y: 875kc

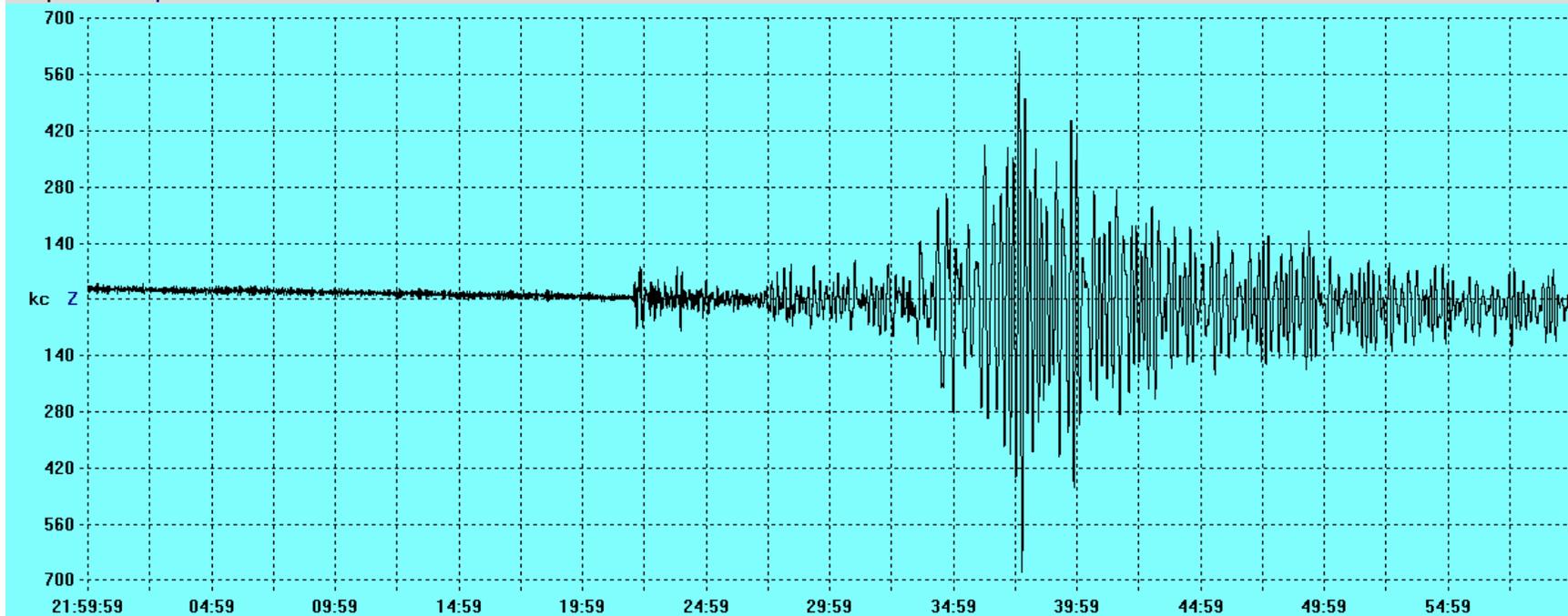


Telessismo: PDE-Q 2012 11 10 145750.73 -8.86 -75.07 129 6.0 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 11/11/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 614915/-678305 X: 1:00:00 Y: 700kc

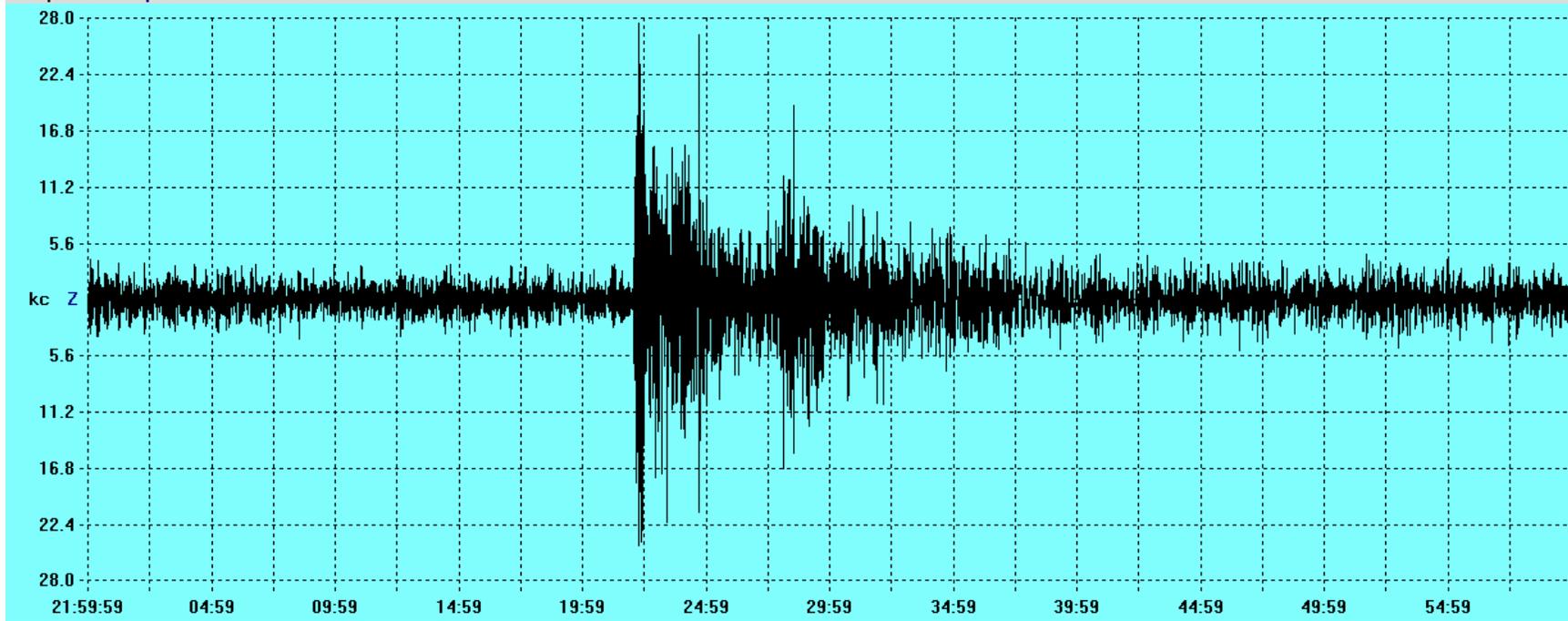


Telessismo: PDE-Q 2012 11 11 221500.47 14.16 -92.17 27 6.5 MwWCMT

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 11/11/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 27484/-24451 X: 1:00:00 Y: 28kc

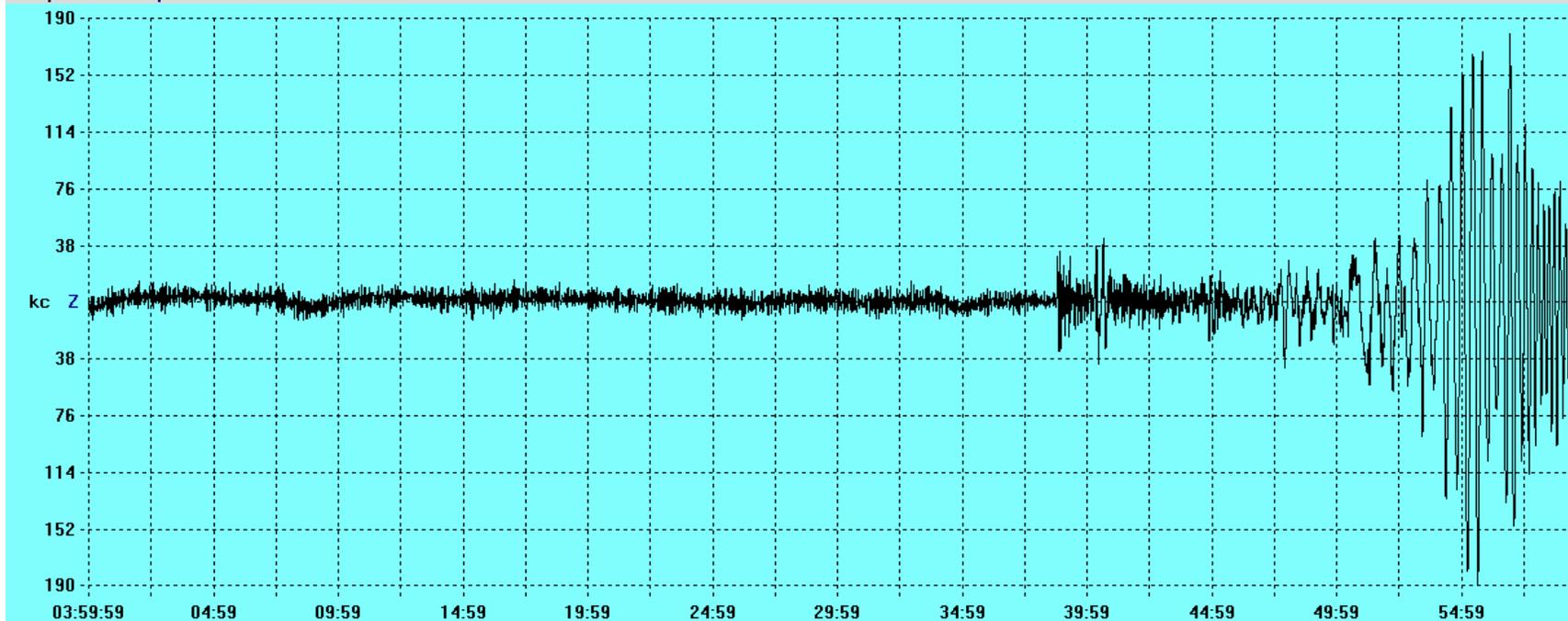


Telessismo: PDE-Q 2012 11 11 221500.47 14.16 -92.17 27 6.5 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 11/13/12 3:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 179394/-188744 X: 1:00:00 Y: 190kc

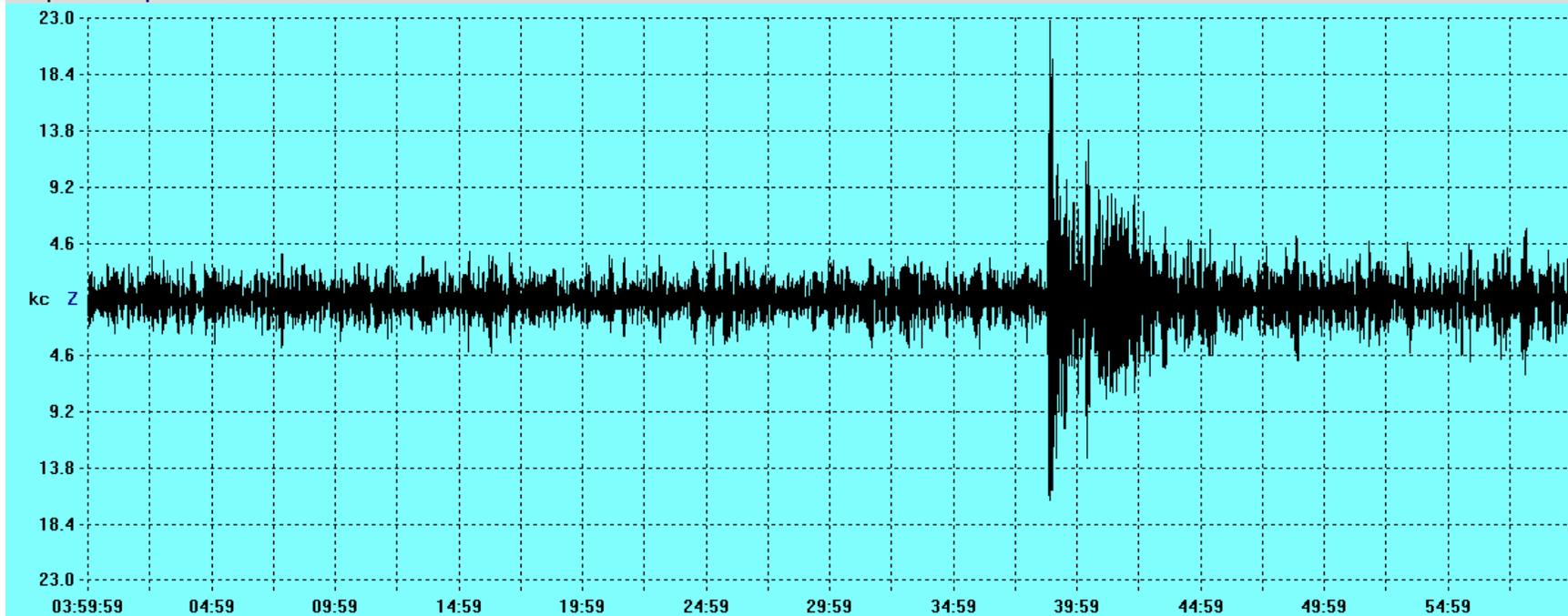


Telessismo: PDE-Q 2012 11 13 043127.31 -45.74 -77.14 9 6.1 MwWCMT

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 11/13/12 3:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 22732/-16501 X: 1:00:00 Y: 23kc

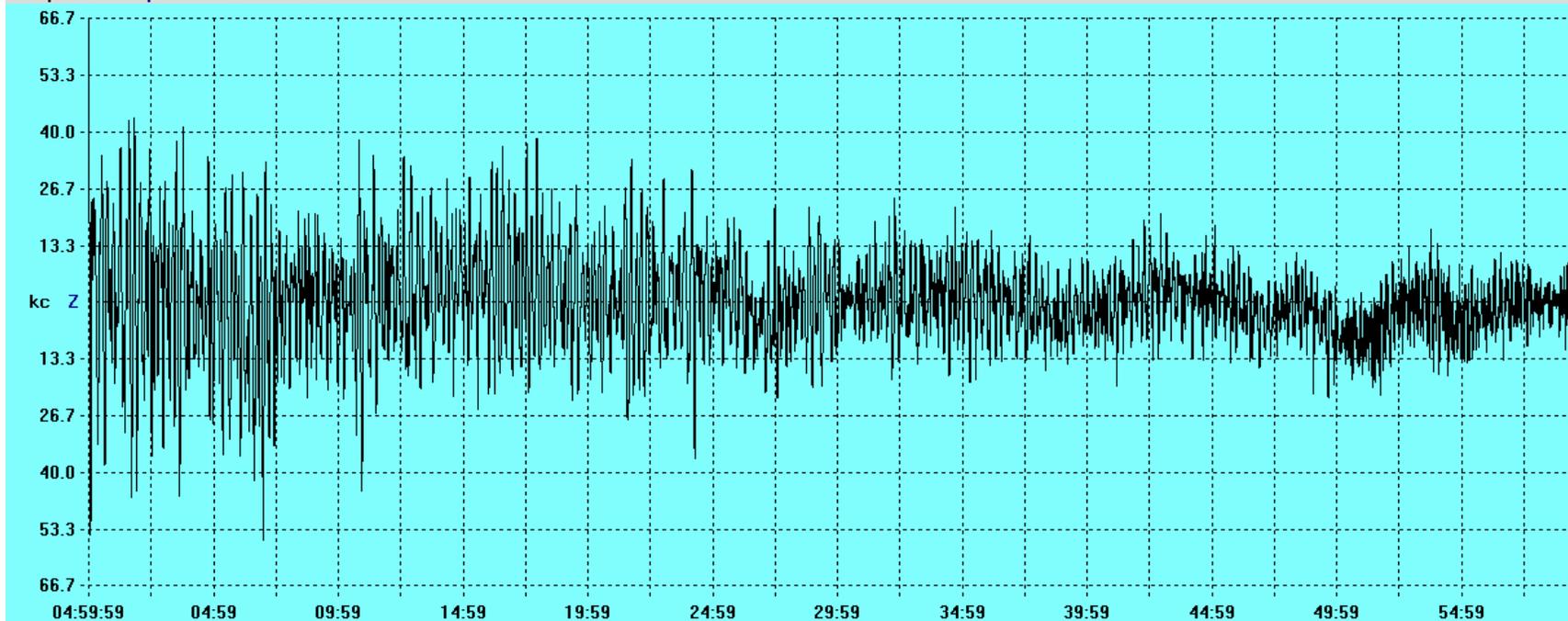


Telessismo: PDE-Q 2012 11 13 043127.31 -45.74 -77.14 9 6.1 MwWCMT

Hora consecutiva à do sismograma acima (sismograma não filtrado):

Start: 11/13/12 4:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 95784/-55935 X: 1:00:00 Y: 66.6667kc

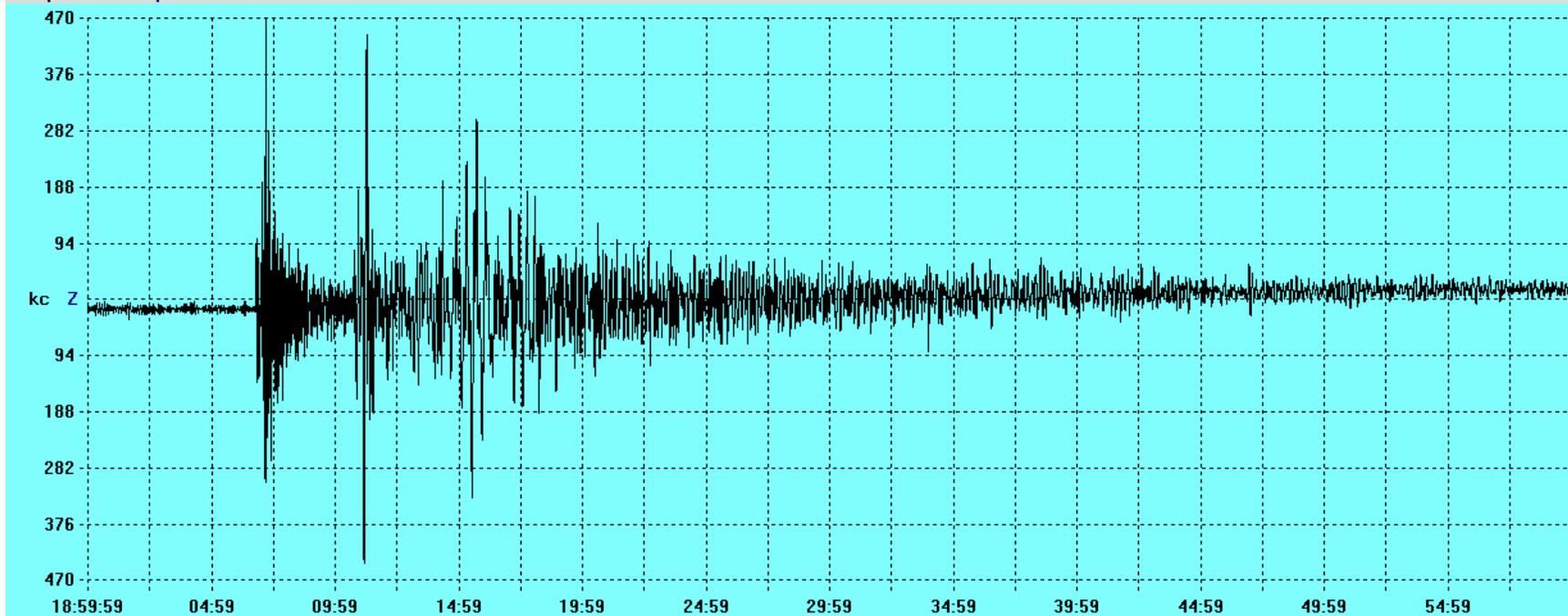


Telessismo: PDE-Q 2012 11 13 043127.31 -45.74 -77.14 9 6.1 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 11/14/12 18:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 469464/-440631 X: 1:00:00 Y: 470kc

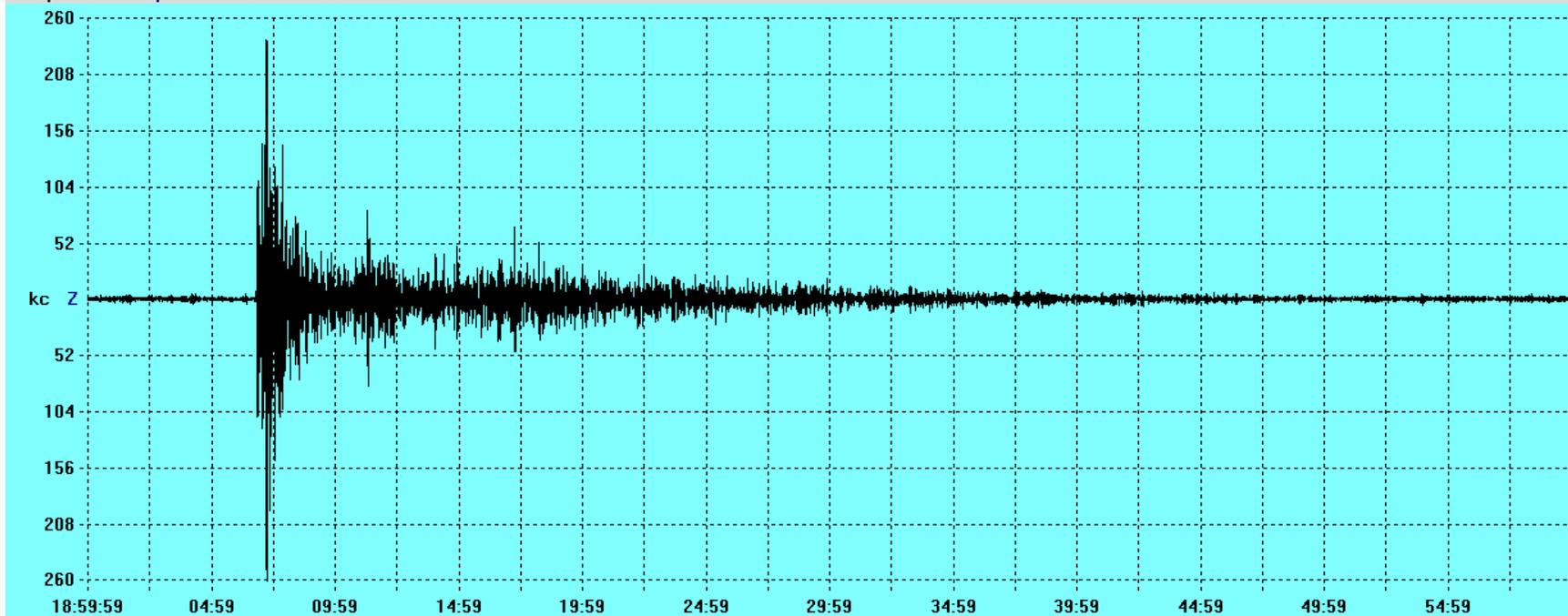


Telessismo: PDE-Q 2012 11 14 190205.73 -29.12 -71.20 59 6.2 MwGCMT

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 11/14/12 18:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 239067/-388515 X: 1:00:00 Y: 260kc

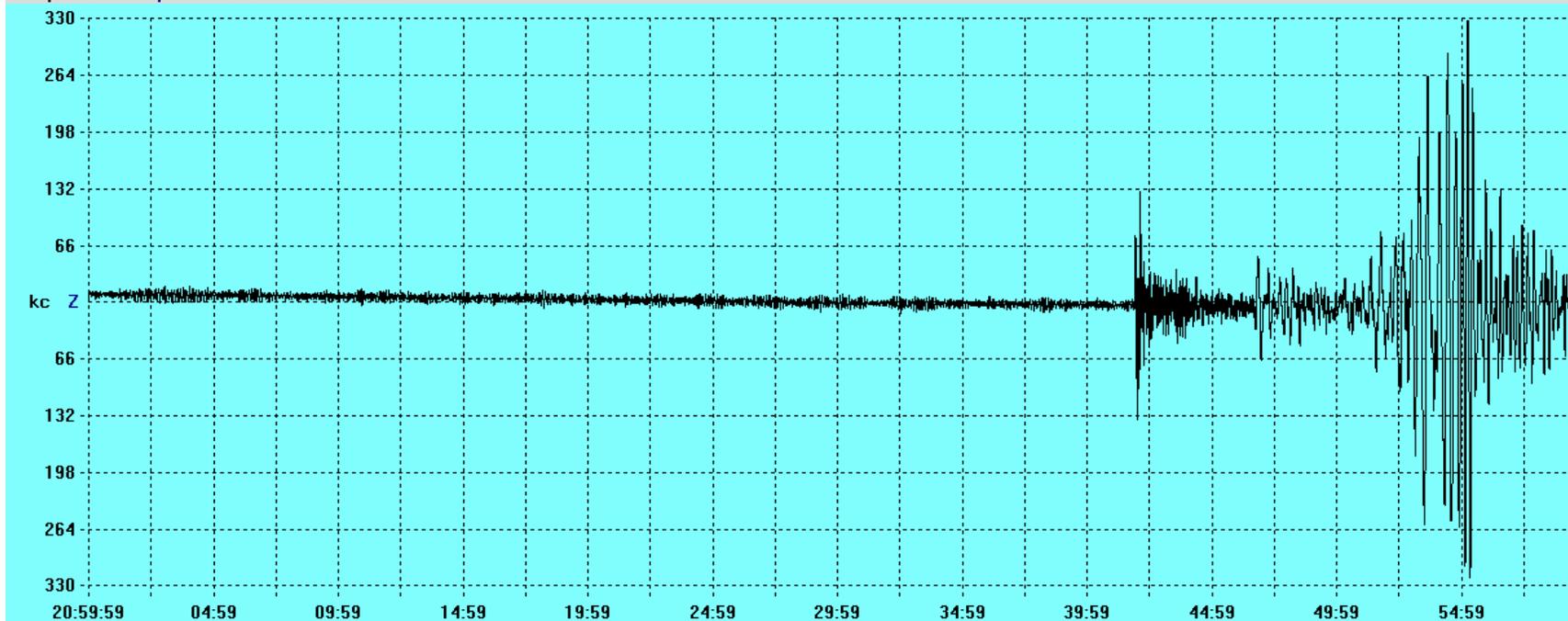


Telessismo: PDE-Q 2012 11 14 190205.73 -29.12 -71.20 59 6.2 MwGCMT

O sismograma a seguir não foi filtrado:

Start: 11/21/12 20:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 326886/-320847 X: 1:00:00 Y: 330kc

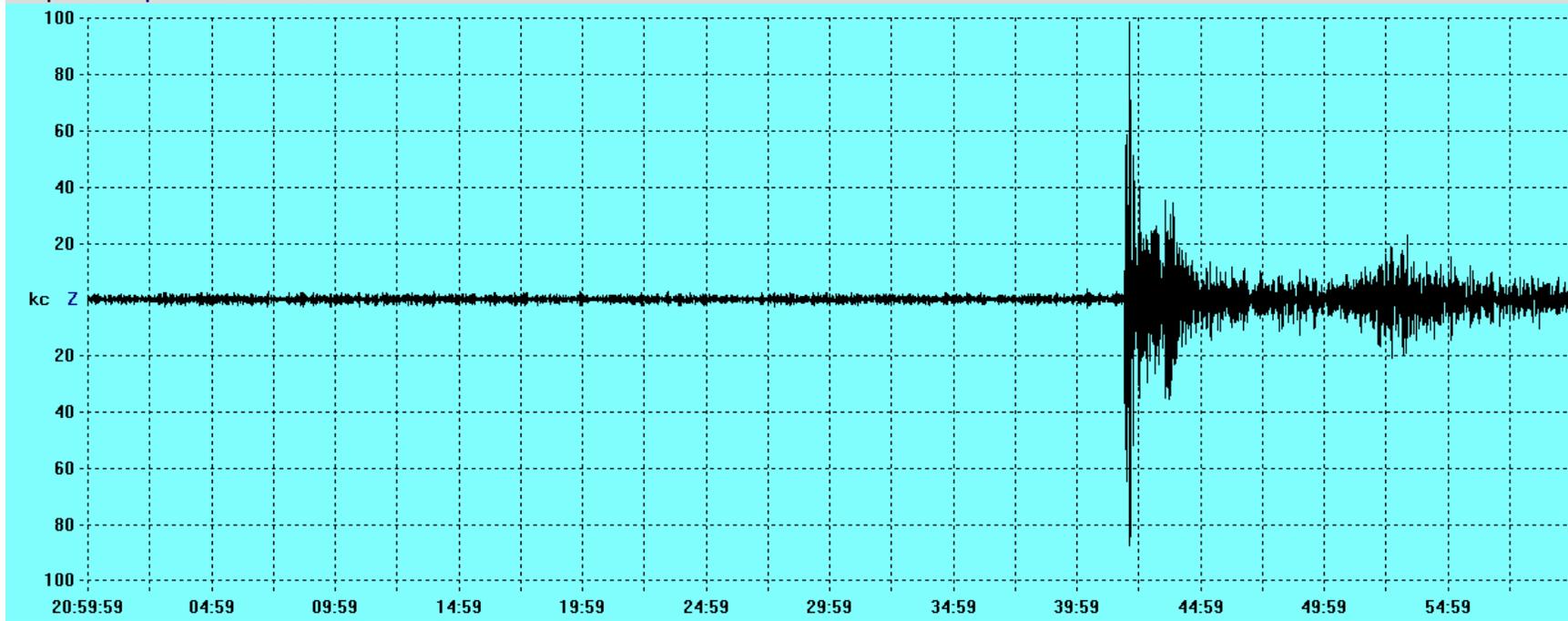


Telessismo: PDE-Q 2012 11 21 213622.17 -34.02 -72.02 15 5.9 MwGS

Versão filtrada (band-pass entre 0.3 e 1.0 Hz) do sismograma acima:

Start: 11/21/12 20:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 98404/-87513 X: 1:00:00 Y: 100kc

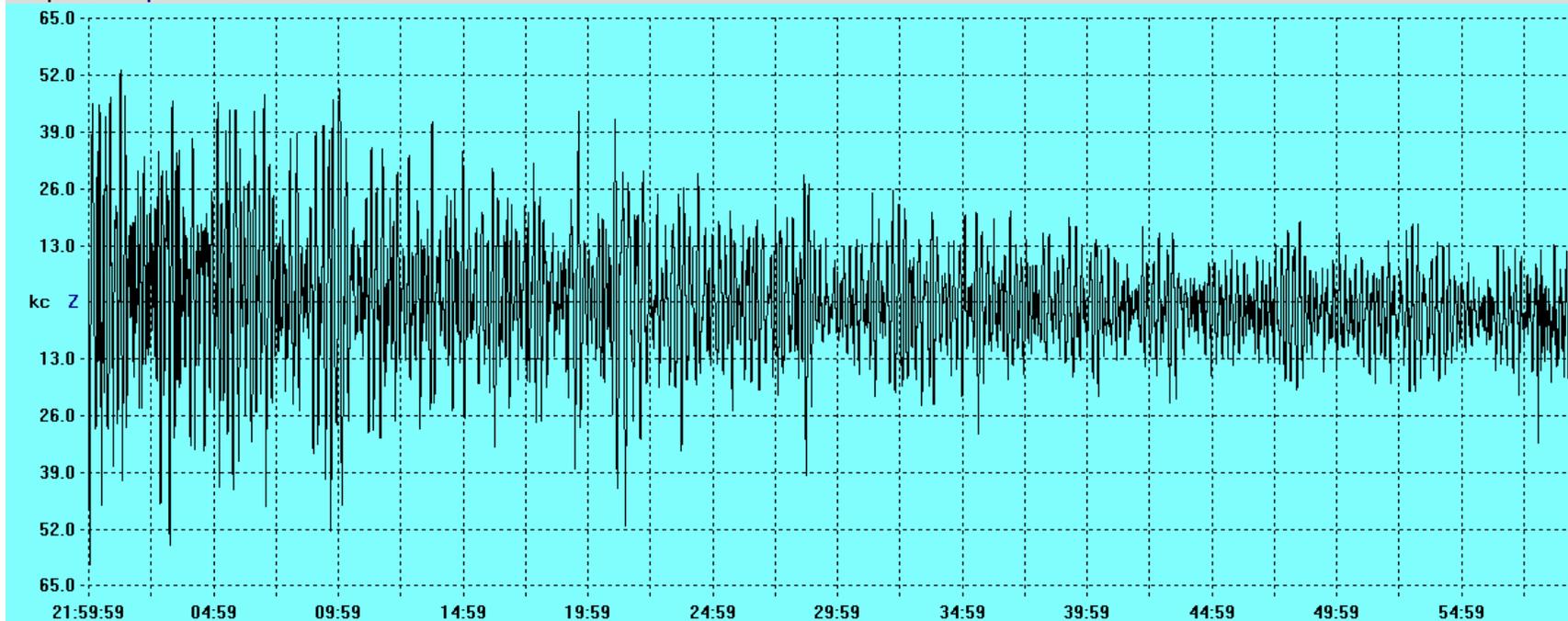


Telessismo: PDE-Q 2012 11 21 213622.17 -34.02 -72.02 15 5.9 MwGS

Hora consecutiva à do sismograma acima (sismograma não filtrado):

Start: 11/21/12 21:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 52899/-60252 X: 1:00:00 Y: 65kc

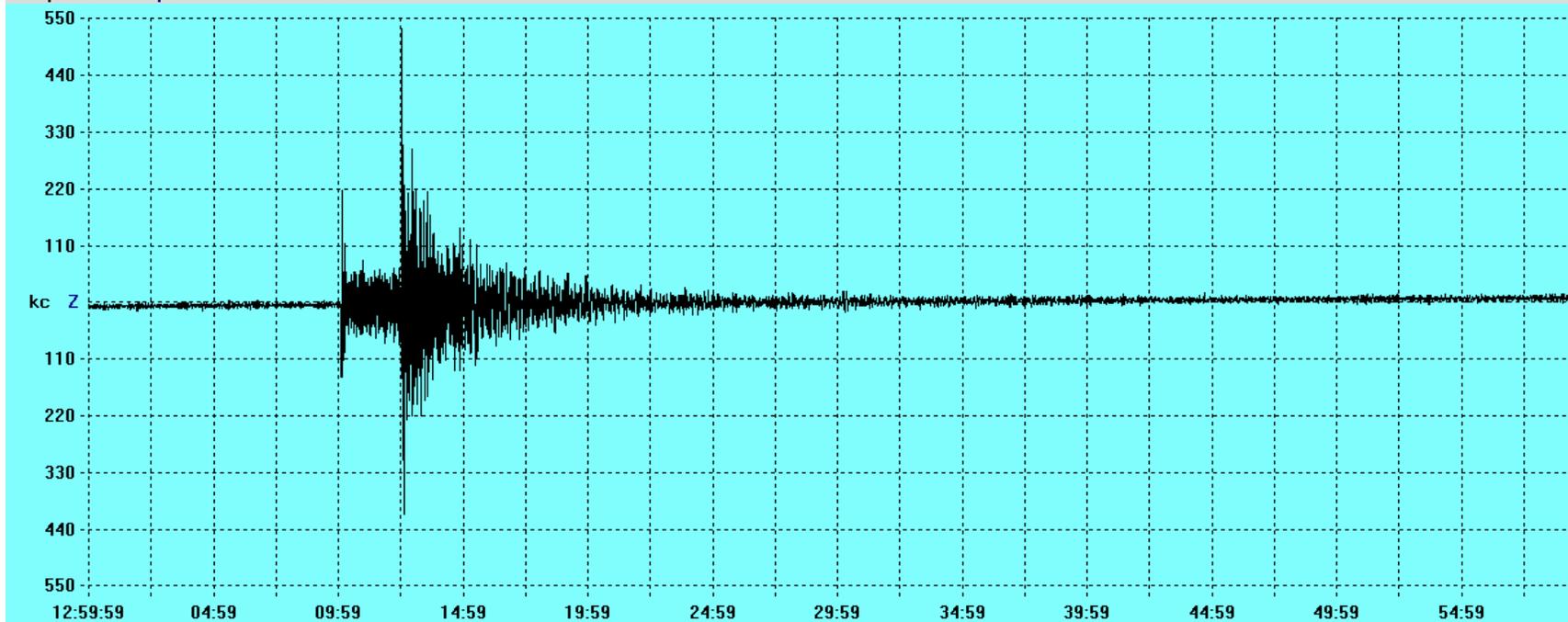


Telessismo: PDE-Q 2012 11 21 213622.17 -34.02 -72.02 15 5.9 MwGS

O sismograma a seguir não foi filtrado:

Start: 11/22/12 12:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 529457/-410435 X: 1:00:00 Y: 550kc



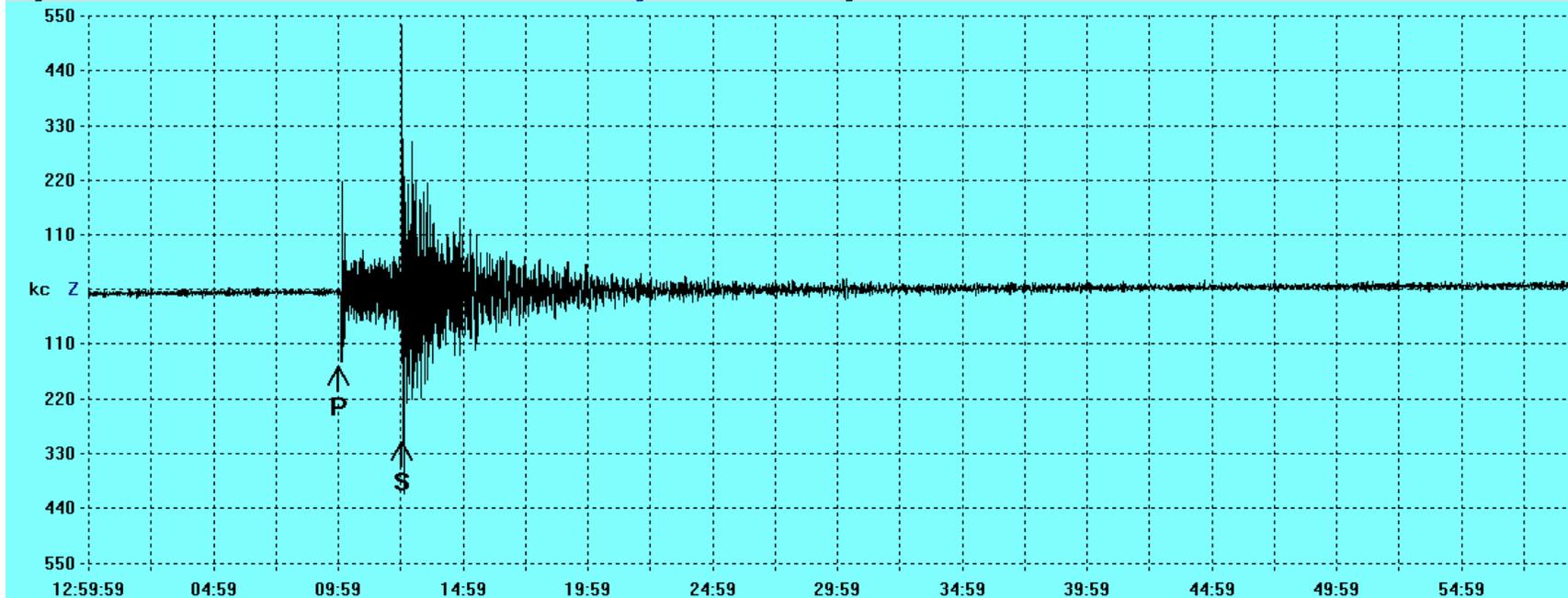
Telessismo: PDE-Q 2012 11 22 130715 -22.79 -63.97 462 5.6 mbGS

Distância epicentral aproximada do sismo acima: 1524 km:

Start: 11/22/12 12:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 529457/-410435 X: 1:00:00 Y: 550kc

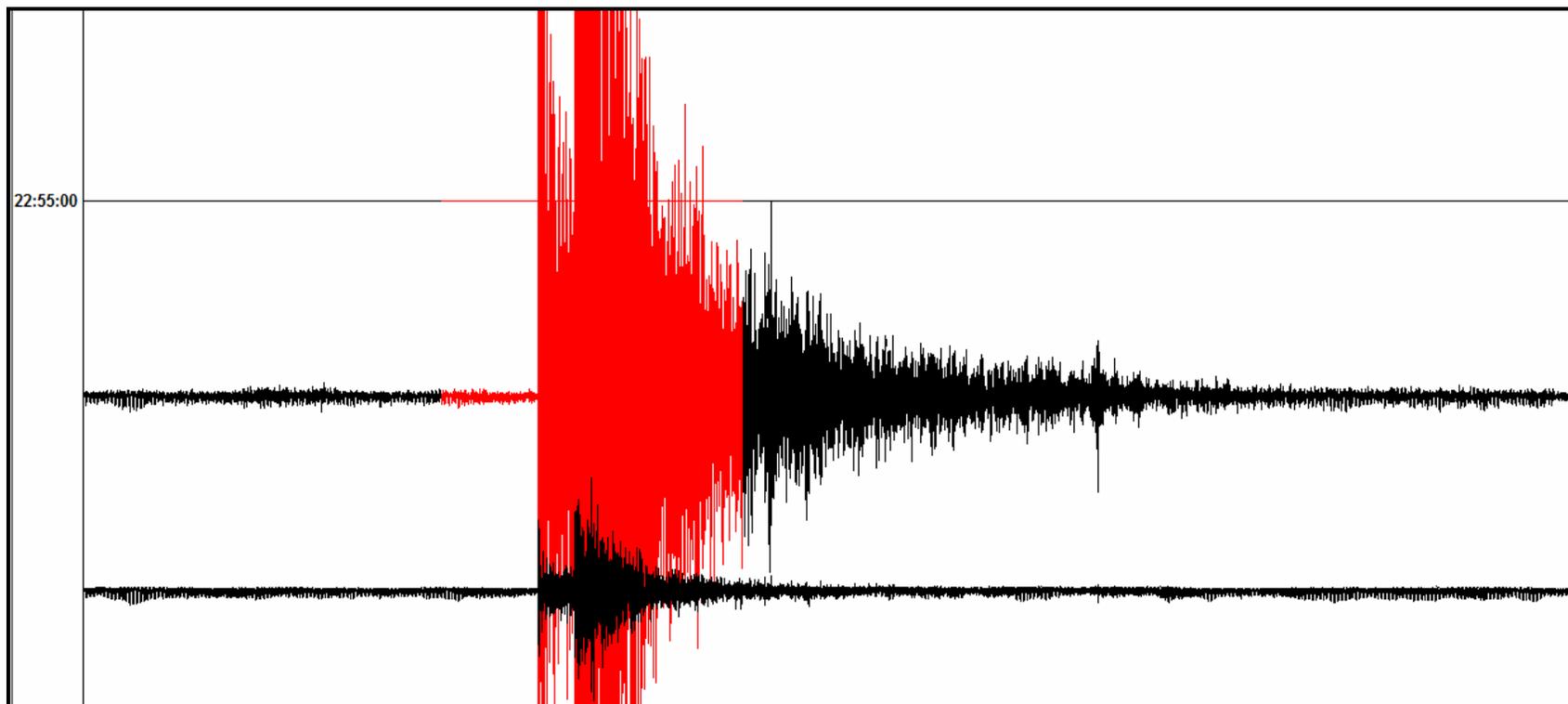
Org: 13:06:44.9 P: 13:09:59.0 S: 13:12:31.3 Diff: 2:32.3min Dist: 13.712deg 1524.4km 947.2mi Mag: MI?? JB: 33



Telessismo: PDE-Q 2012 11 22 130715 -22.79 -63.97 462 5.6 mbGS

Sismo Regional Registrado em Novembro de 2012:

Sismo de Ariquemes, RO



Registro da estação da UHE Santo Antônio (SANT1) – 25 de Novembro de 2012 – horário GMT – componentes Z, N e E.