

Apêndice

Detonações Realizadas no Canteiro de Obras da UHE Santo Antônio

Agosto 2012

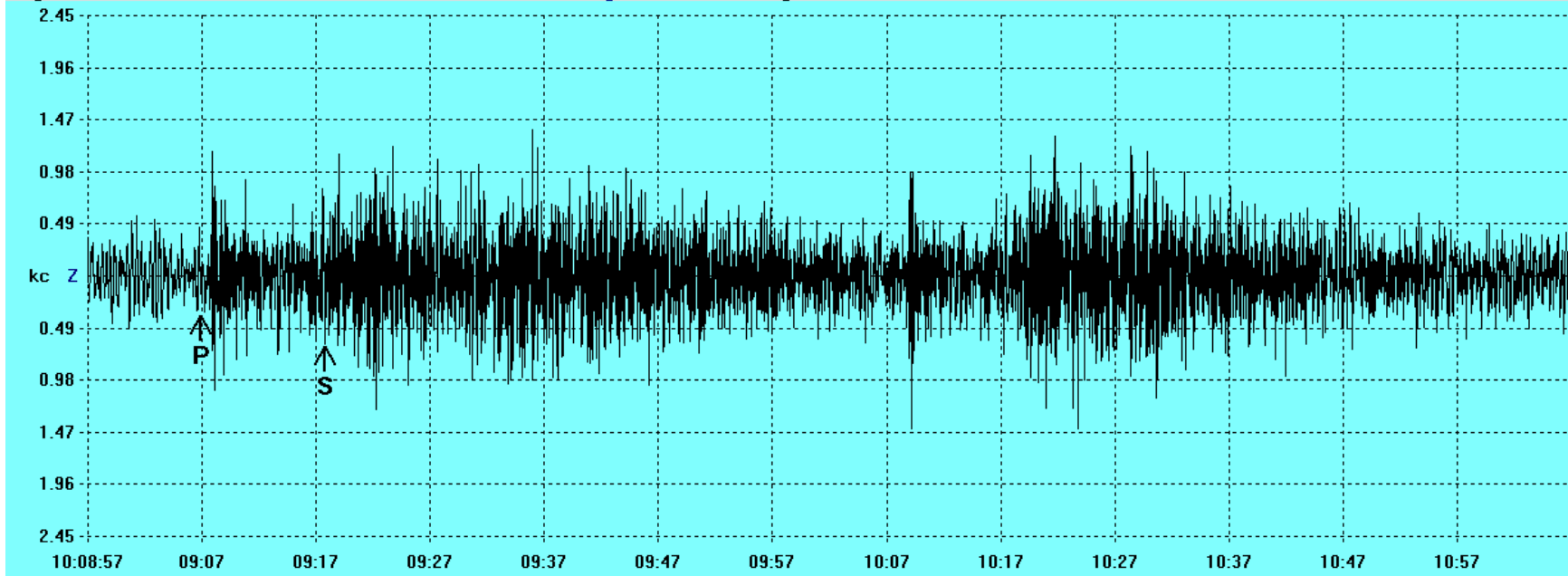
Registros das Estações SAML, SANT1 e SANT2

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:

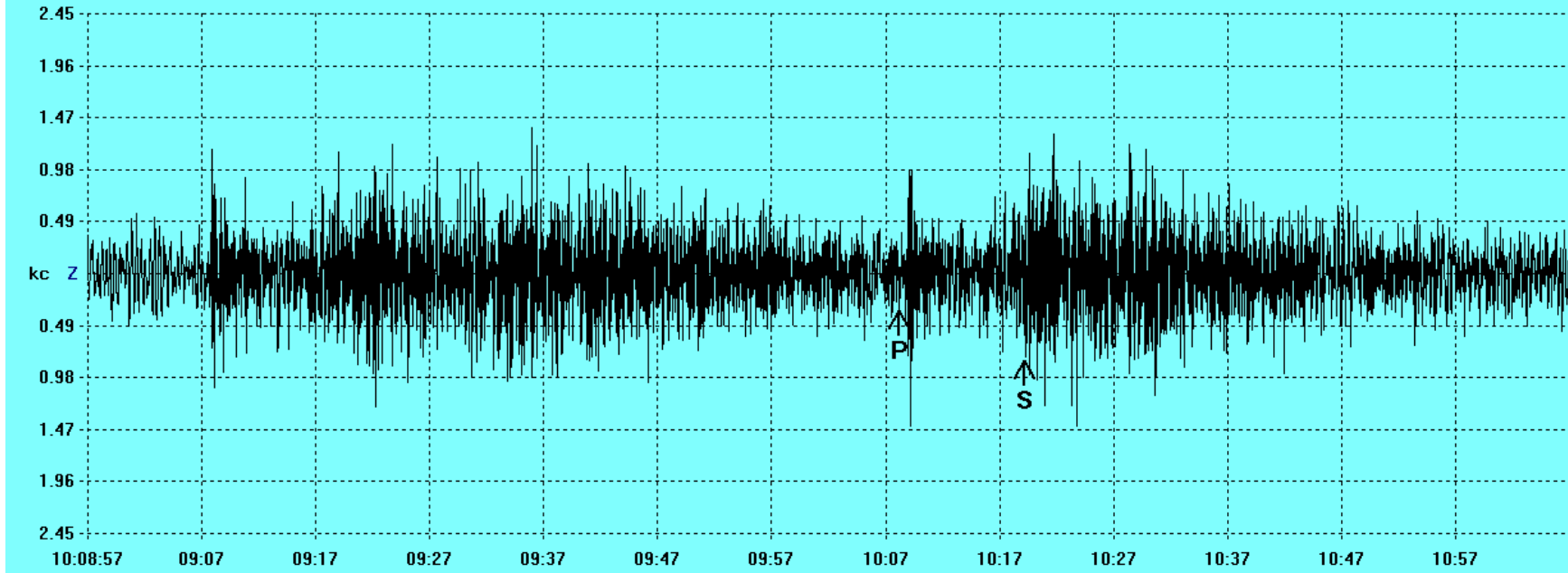
Start: 8/01/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4823/-3174 X: 2:10.0 Y: 2.45kc
Org: 10:08:52.2 P: 10:09:06.9 S: 10:09:17.8 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33



Evento 1

Evento consecutivo:

Start: 8/01/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4823/-3174 X: 2:10.0 Y: 2.45kc
Org: 10:09:53.3 P: 10:10:08.2 S: 10:10:19.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 1

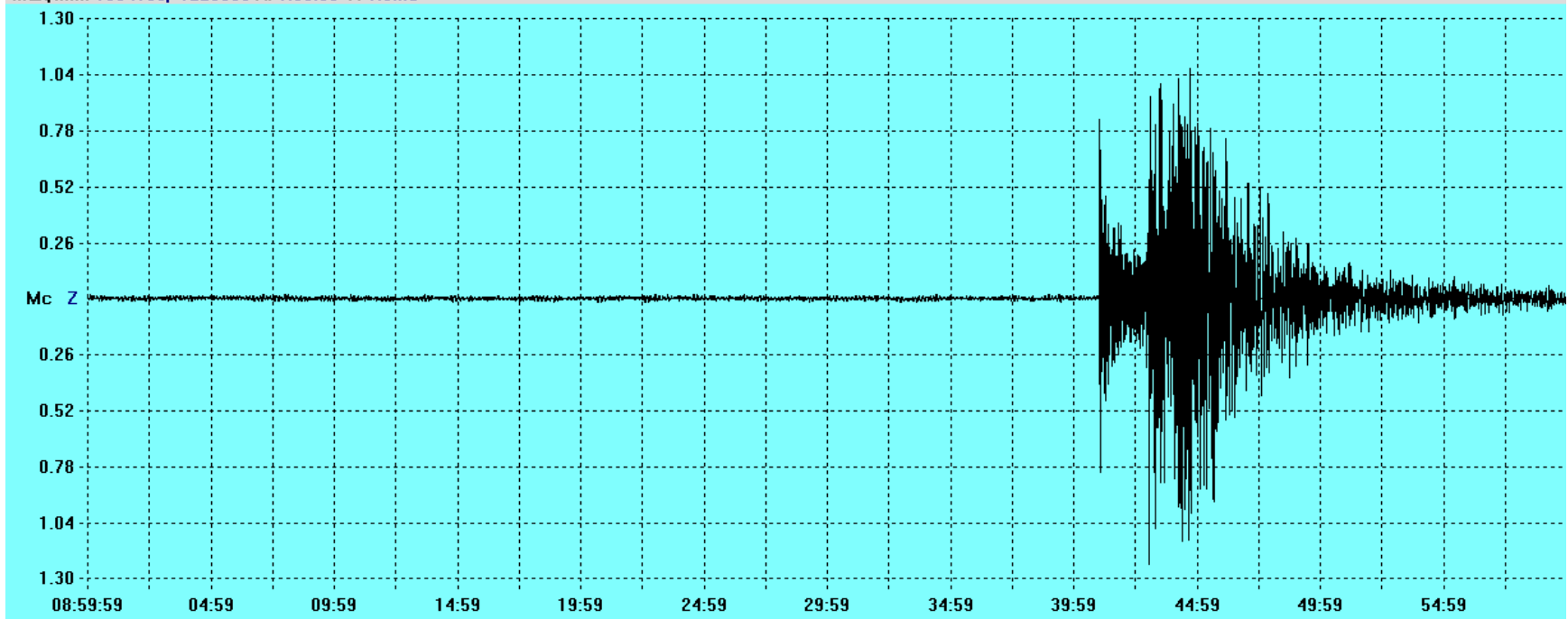
Registro de SANT2:



Sismograma não filtrado:

Start: 8/02/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

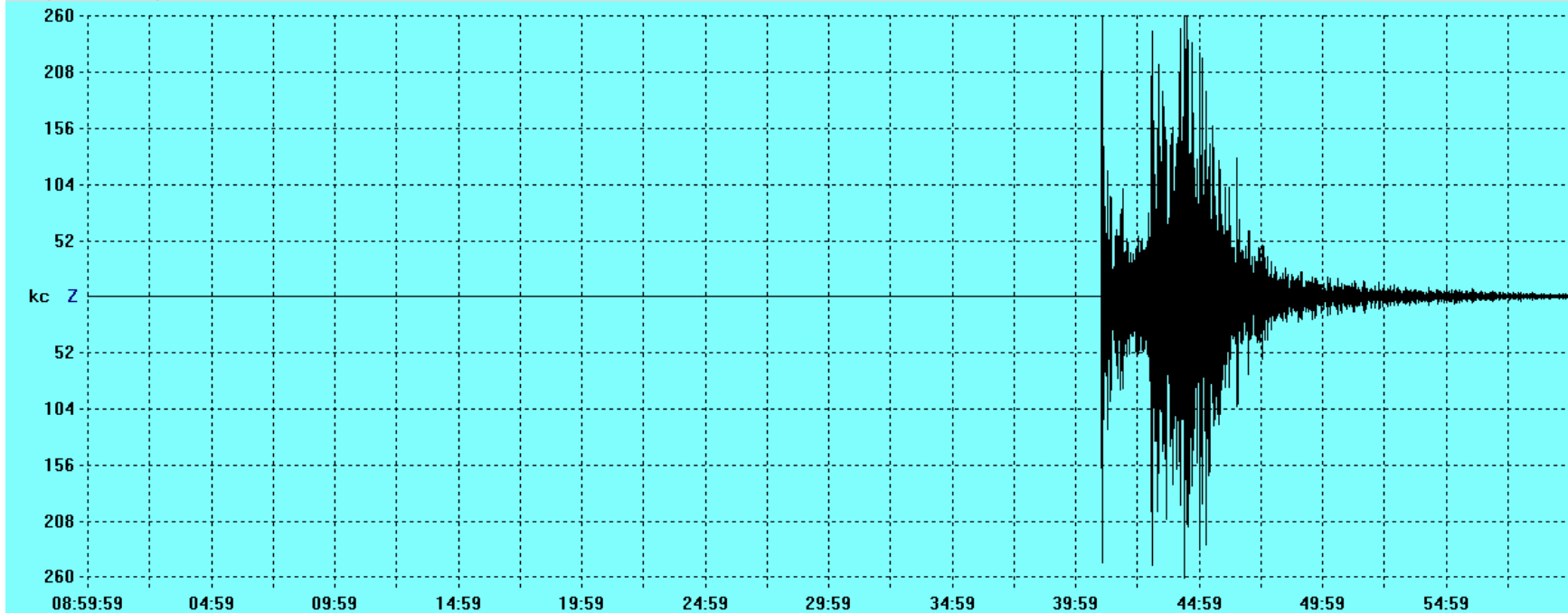
Max/Min: 1064103/-1229930 X: 1:00:00 Y: 1.3Mc



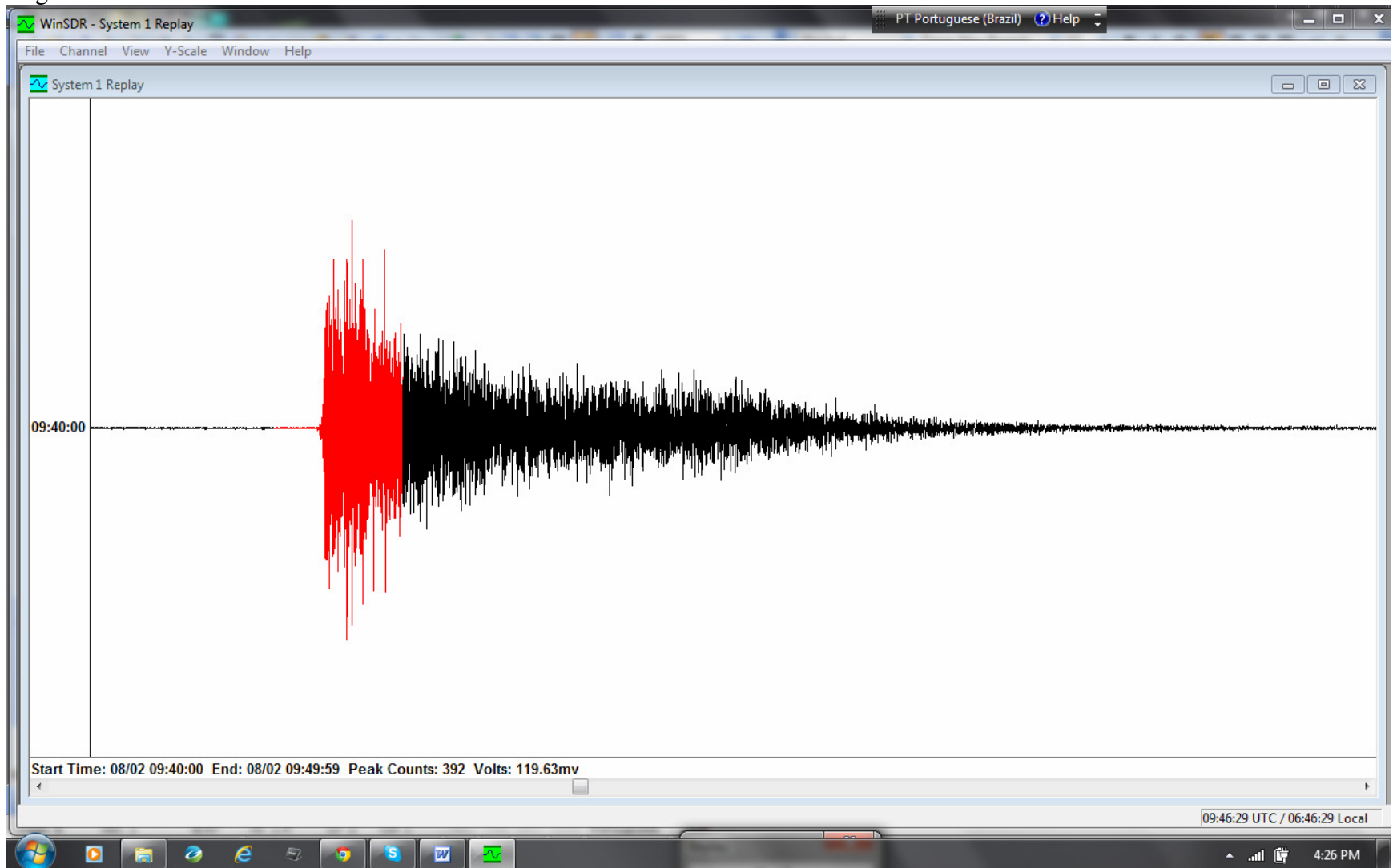
Versão filtrada (high-pass acima de 1 Hz) do sismograma acima:

Start: 8/02/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 303754/-386672 X: 1:00:00 Y: 260kc



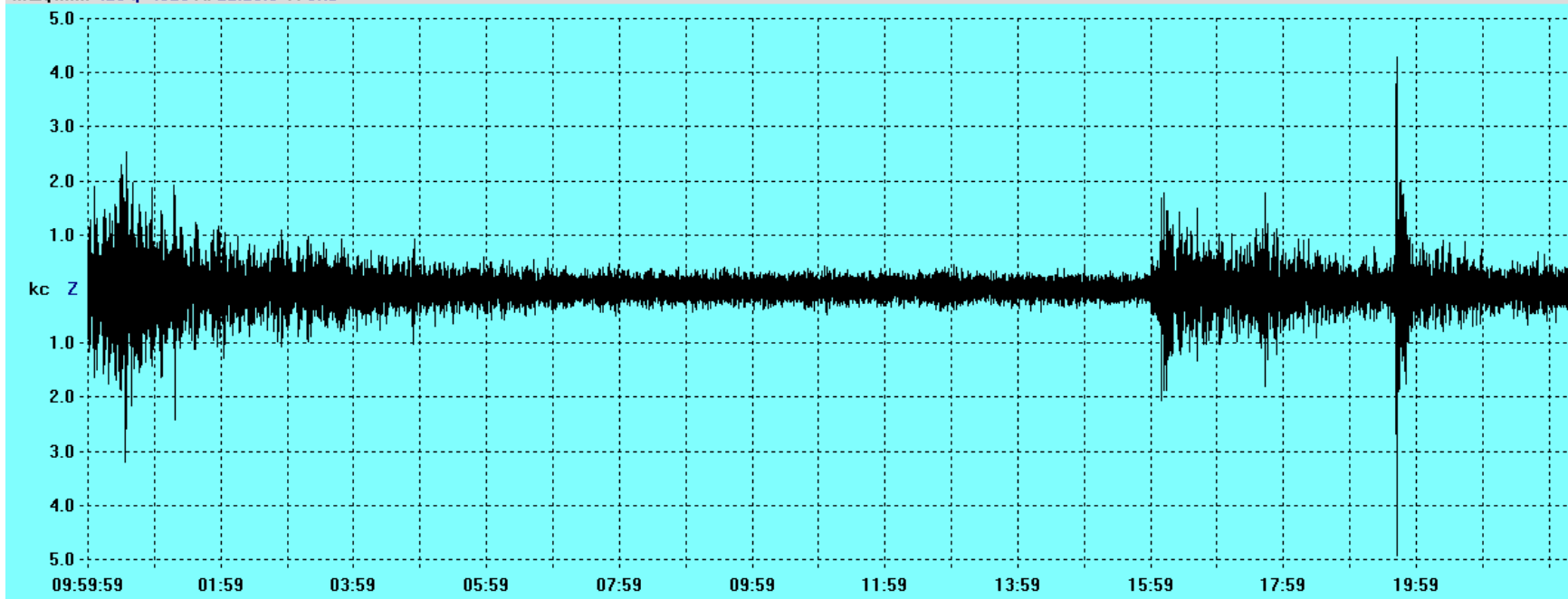
Registro de SANT2:



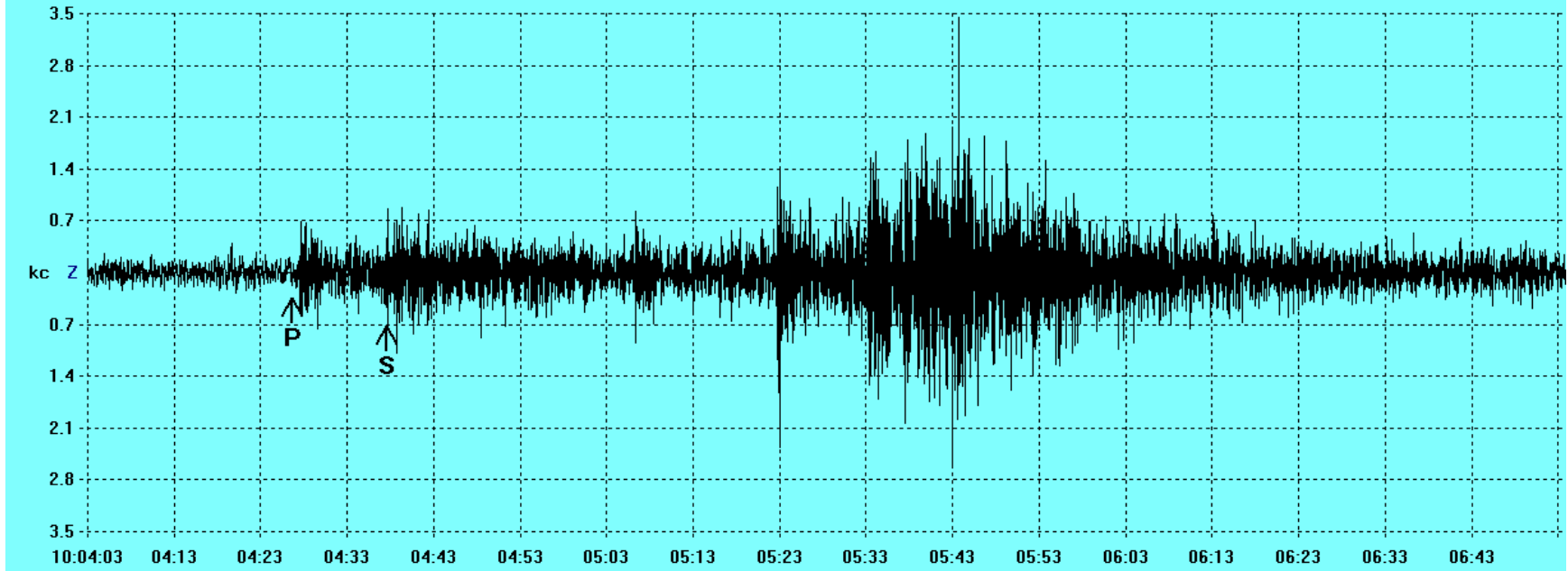
Hora consecutiva à do sismograma acima (sismograma filtrado):

Start: 8/02/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 4284/-4926 X: 22:20.0 Y: 5kc

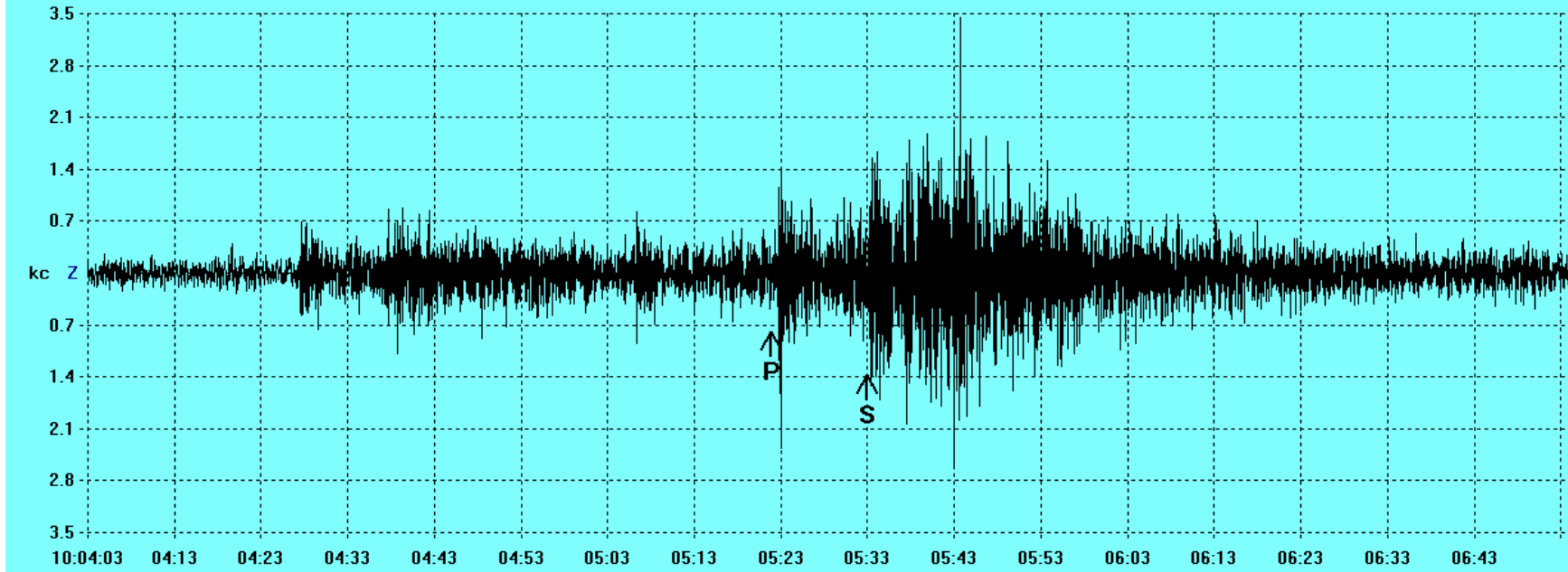


Start: 8/04/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3446/-2605 X: 2:51.0 Y: 3.5kc
Org: 10:04:11.7 P: 10:04:26.6 S: 10:04:37.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 3

Start: 8/04/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3446/-2605 X: 2:51.0 Y: 3.5kc
Org: 10:05:07.0 P: 10:05:21.9 S: 10:05:32.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

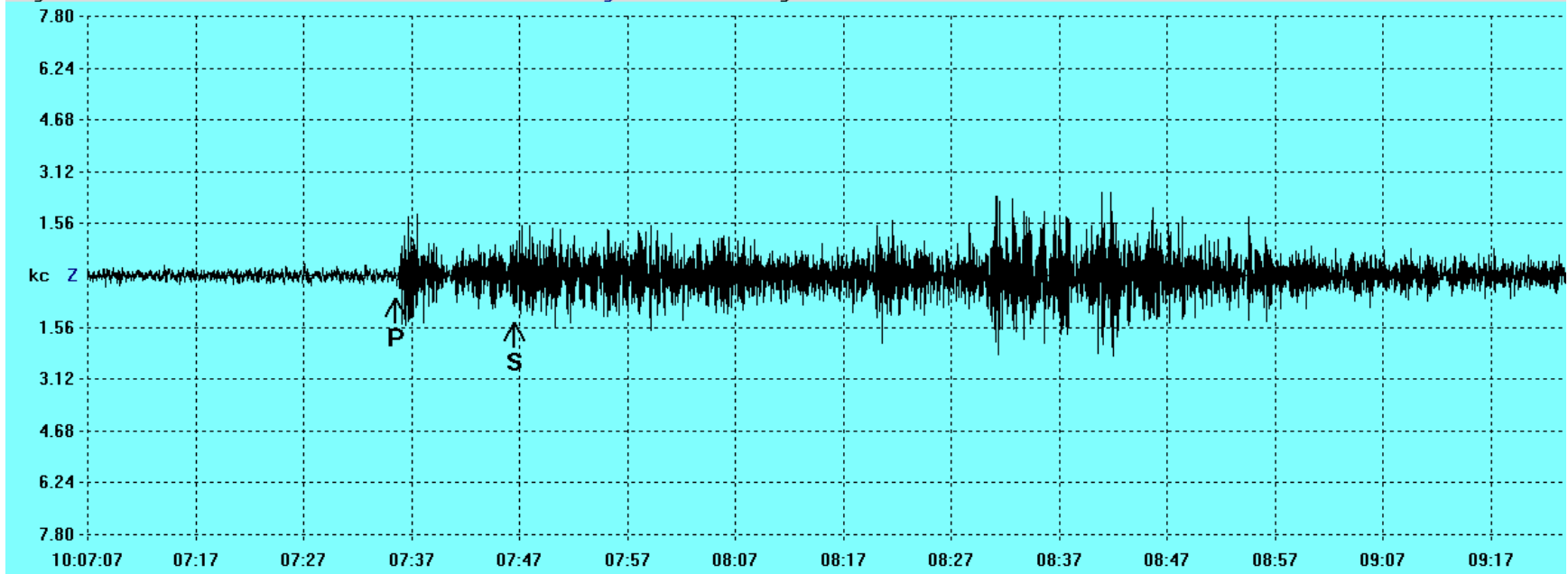


Evento 3

Registro de SANT2:

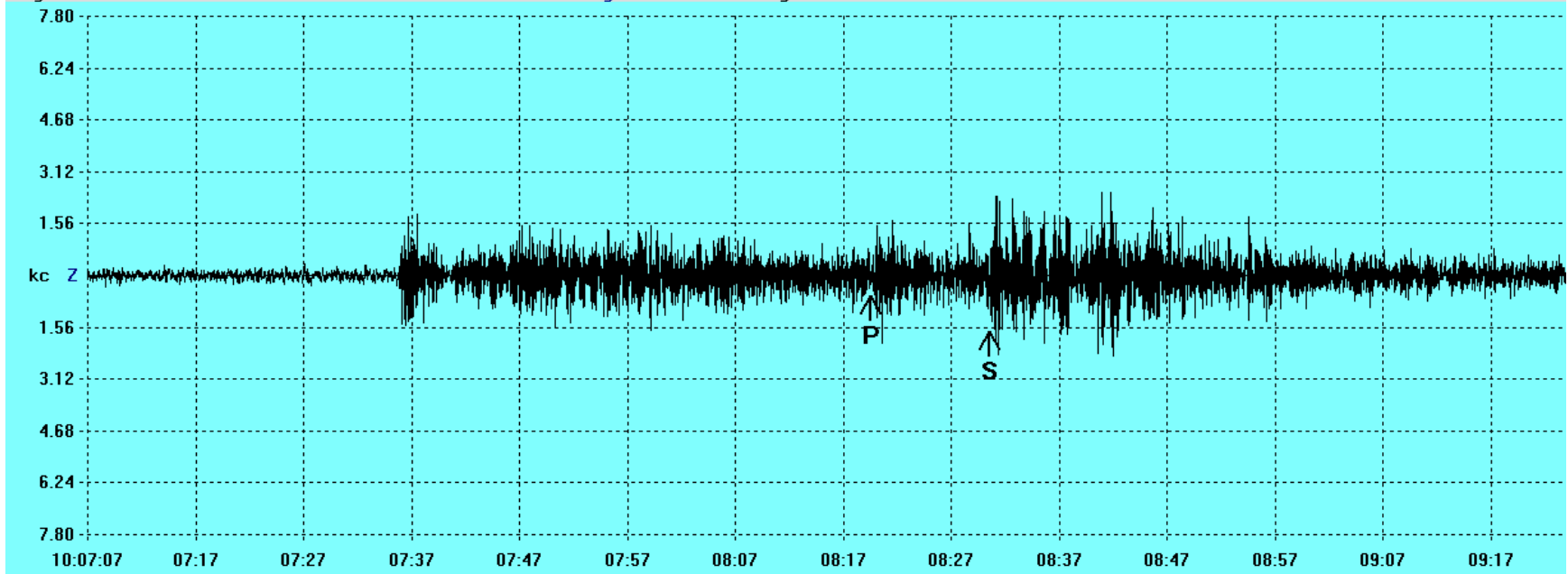


Start: 8/07/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 7781/-7757 X: 2:17.0 Y: 7.8kc
Org: 10:07:20.6 P: 10:07:35.5 S: 10:07:46.5 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



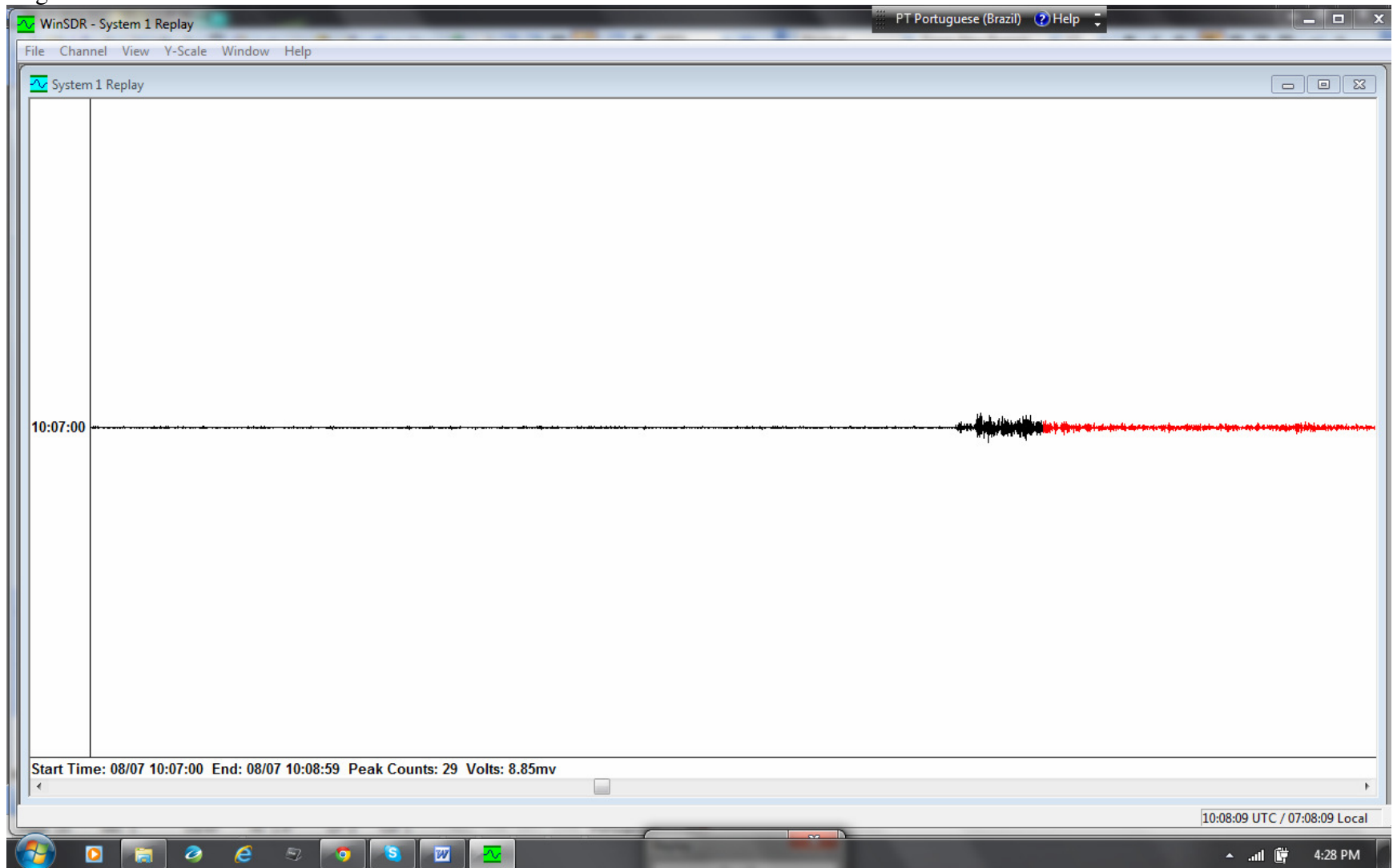
Evento 4

Start: 8/07/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 7781/-7757 X: 2:17.0 Y: 7.8kc
Org: 10:08:04.6 P: 10:08:19.5 S: 10:08:30.5 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

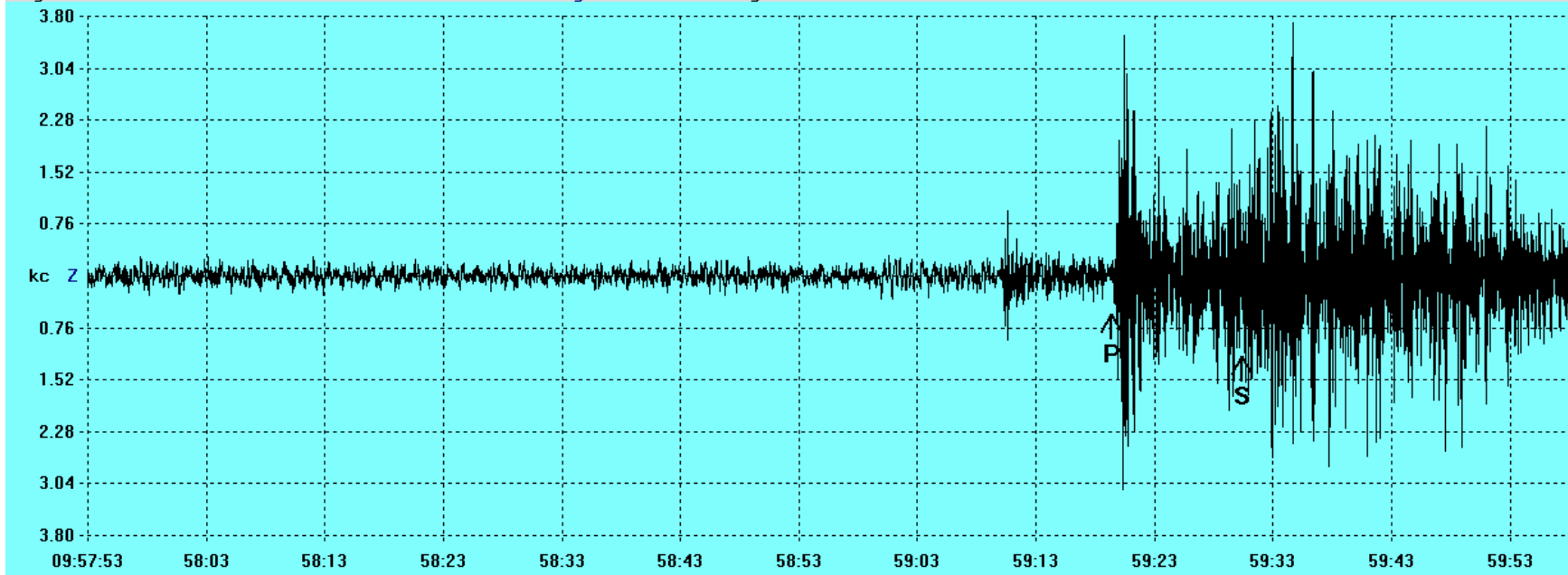


Evento 4

Registro de SANT2:



Start: 8/08/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3713/-3128 X: 2.05.0 Y: 3.8kc
Org: 9:59:04.5 P: 9:59:19.4 S: 9:59:30.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

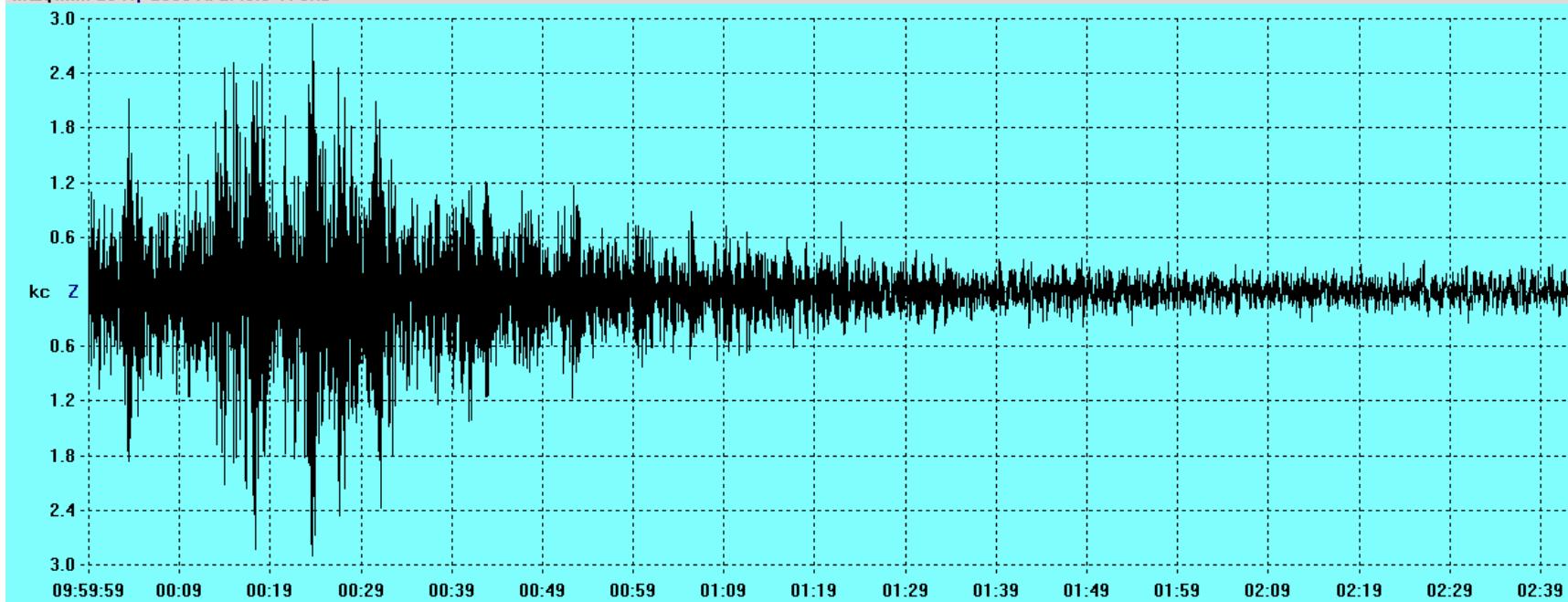


Evento 5

Hora consecutiva à do sismograma acima:

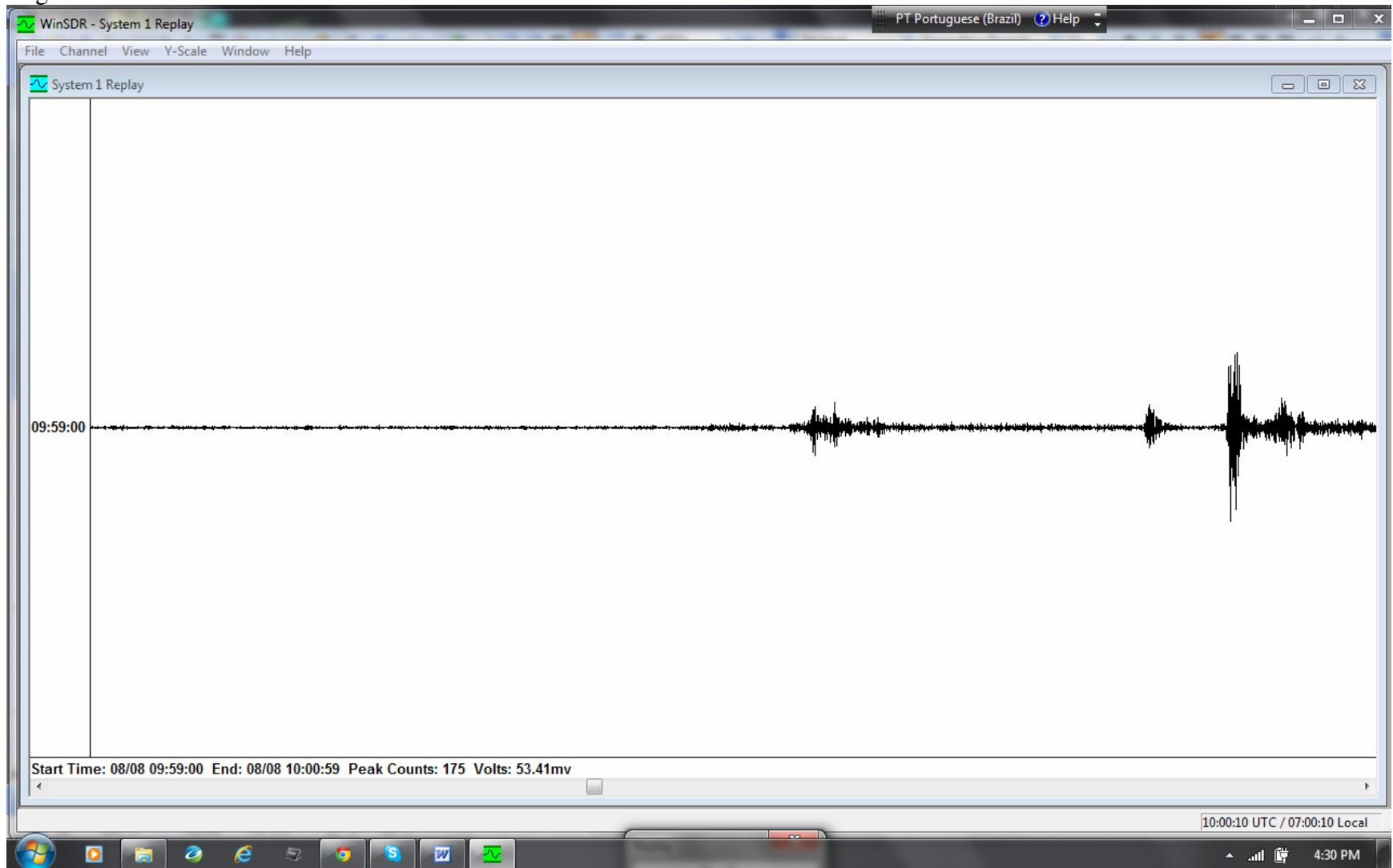
Start: 8/08/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 2941/-2903 X: 2.45.0 Y: 3kc

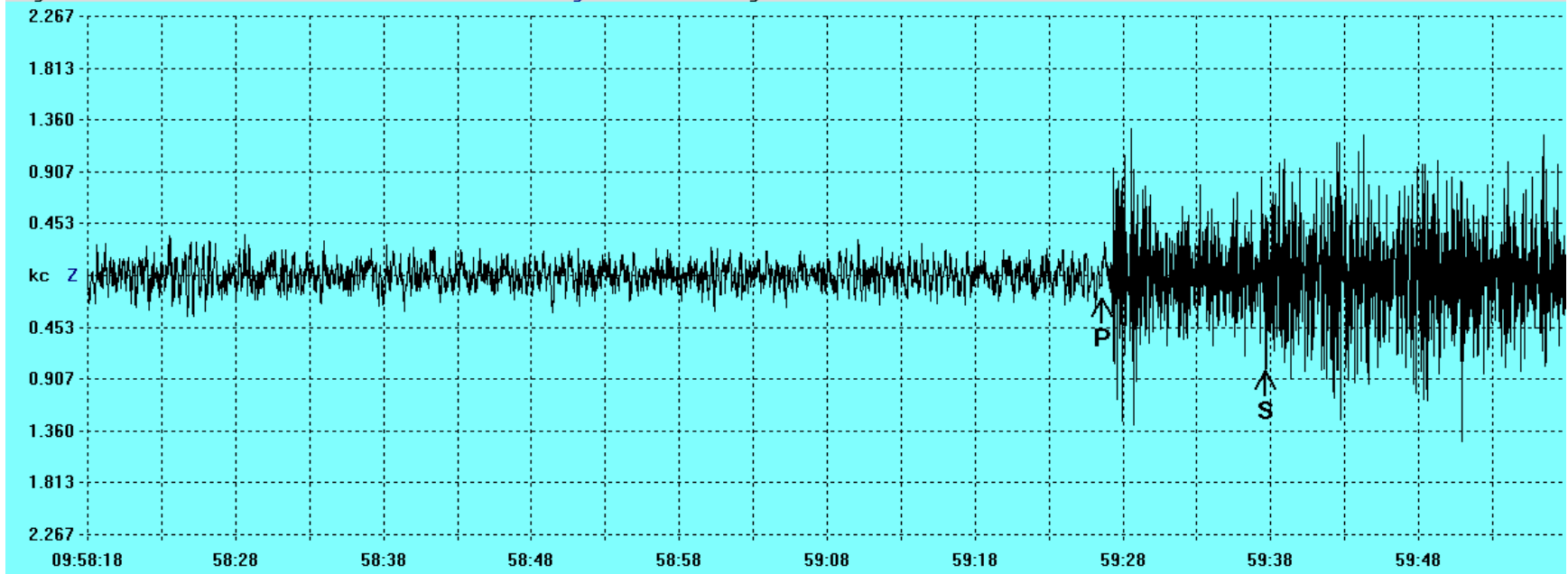


Evento 5

Registro de SANT2:

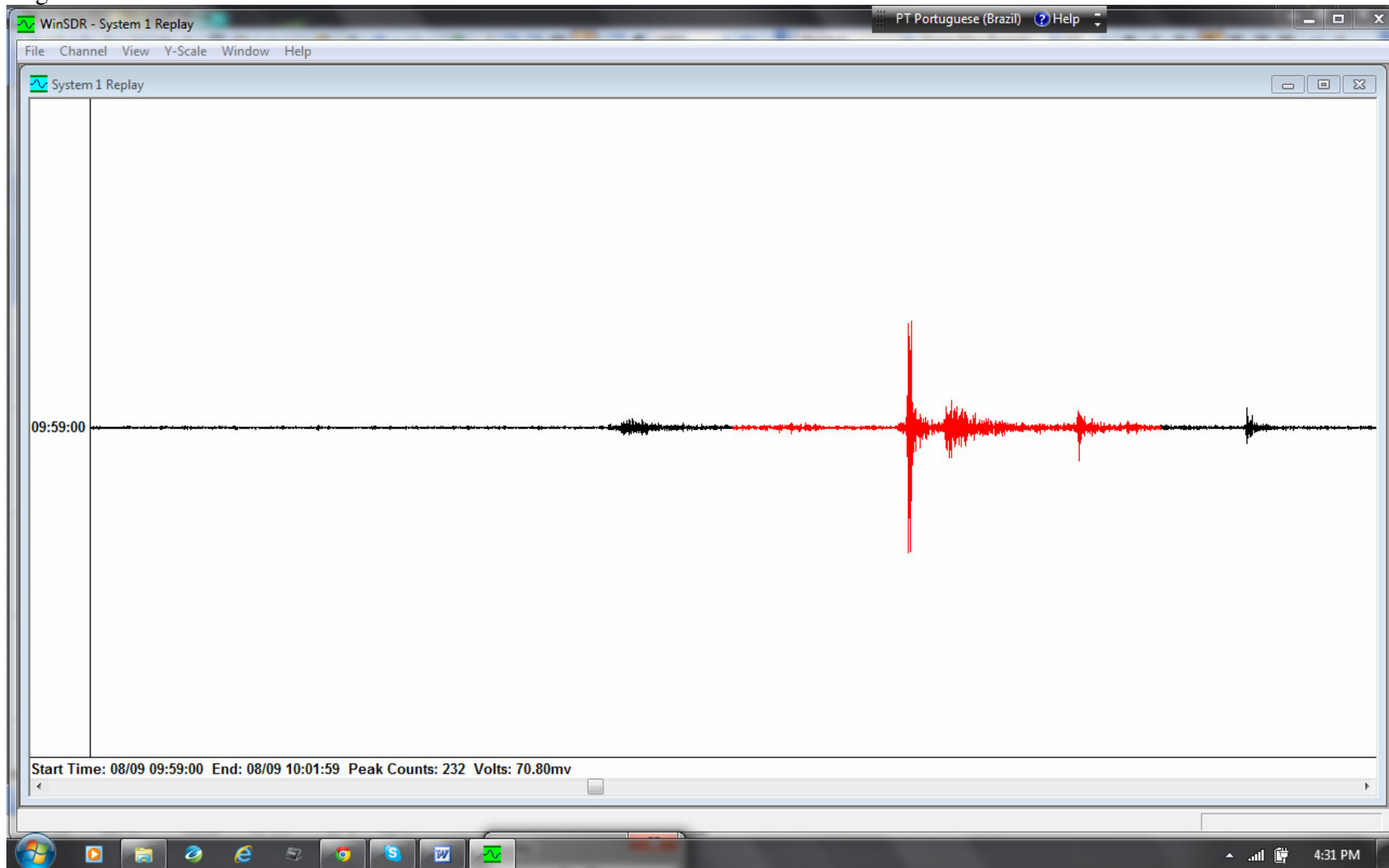


Start: 8/09/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3385/-2978 X: 1:40.0 Y: 2.26667kc
Org: 9:59:11.7 P: 9:59:26.6 S: 9:59:37.6 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

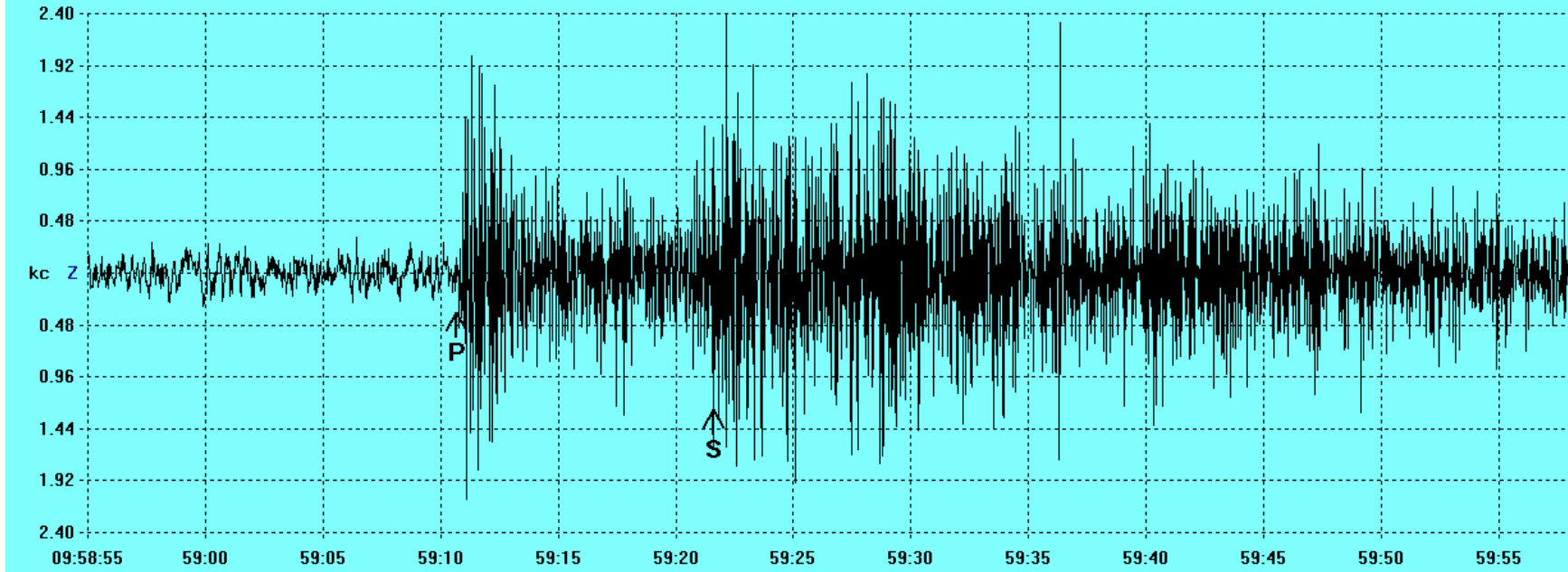


Evento 6

Registro de SANT2:



Start: 8/11/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2382/-2094 X: 1:03.0 Y: 2.4kc
Org: 9:58:56.0 P: 9:59:10.7 S: 9:59:21.6 Diff: 10.9sec Dist: 0.761deg 84.6km 52.6mi Mag: MI?? JB: 33

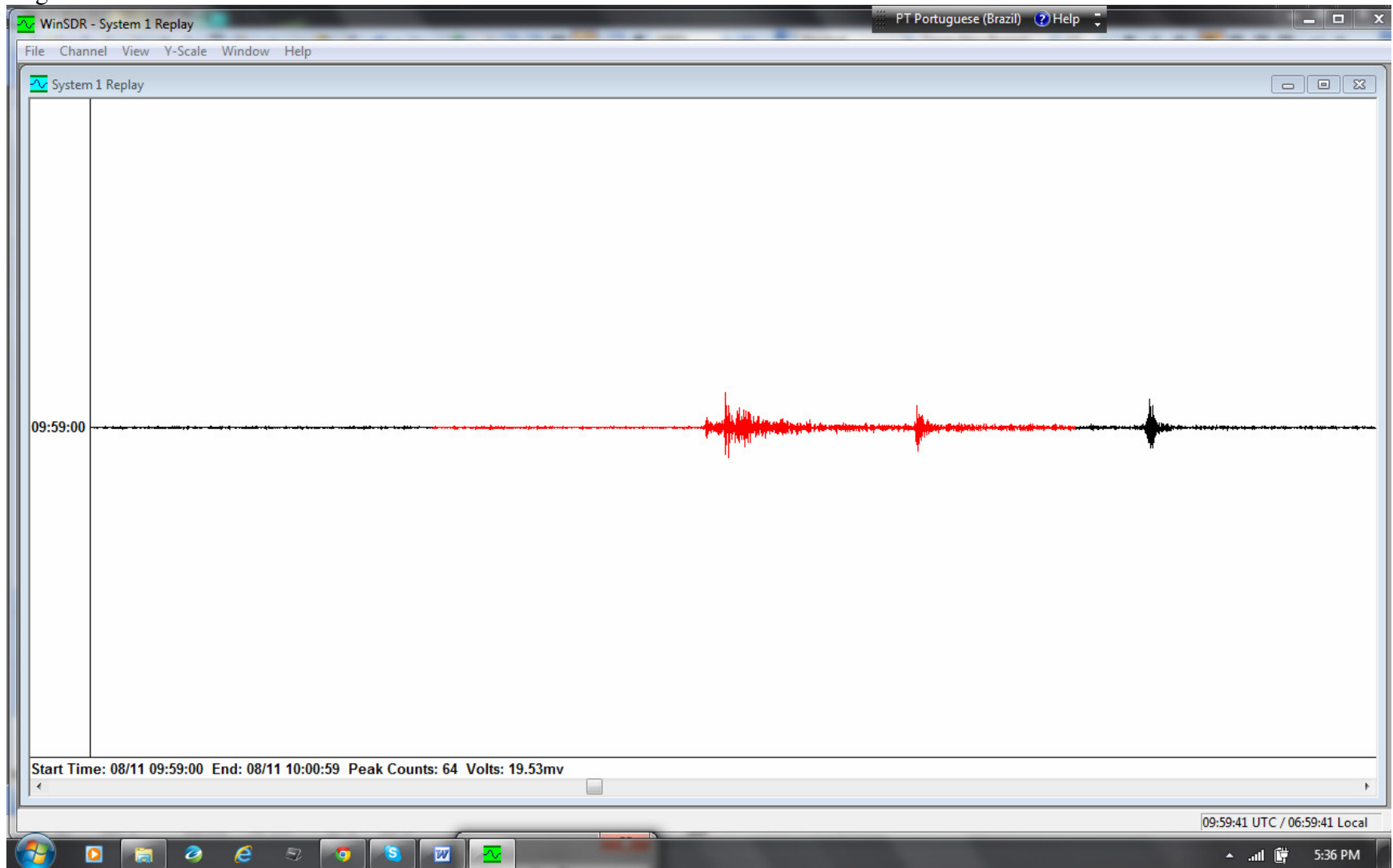


Evento 7

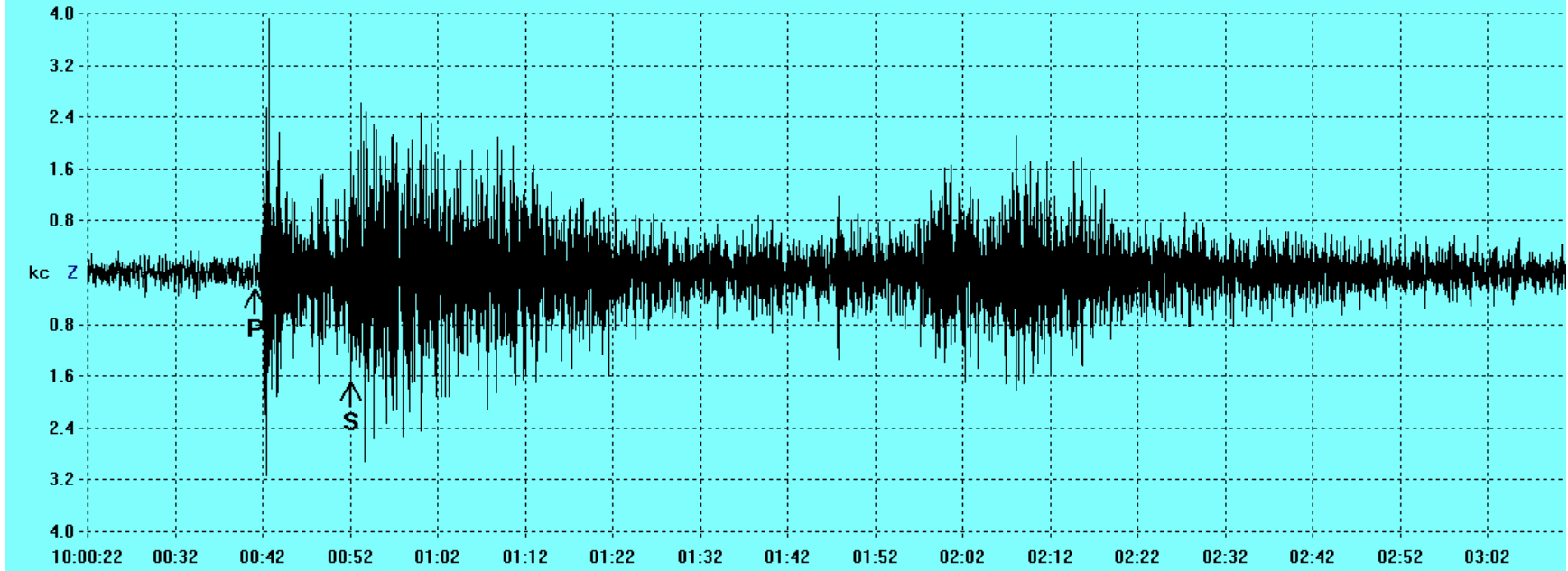
Registro de SANT1:



Registro de SANT2:

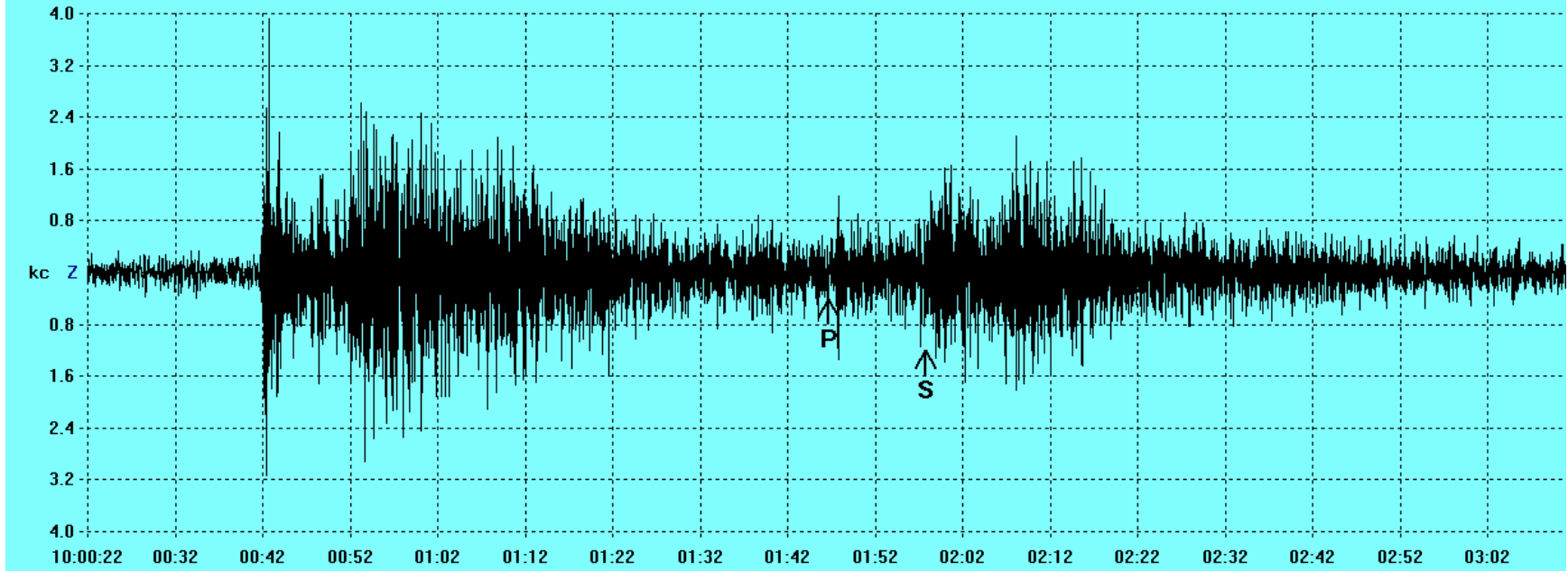


Start: 8/15/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3929/-3428 X: 2.49.0 Y: 4kc
Org: 10:00:26.2 P: 10:00:41.1 S: 10:00:52.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



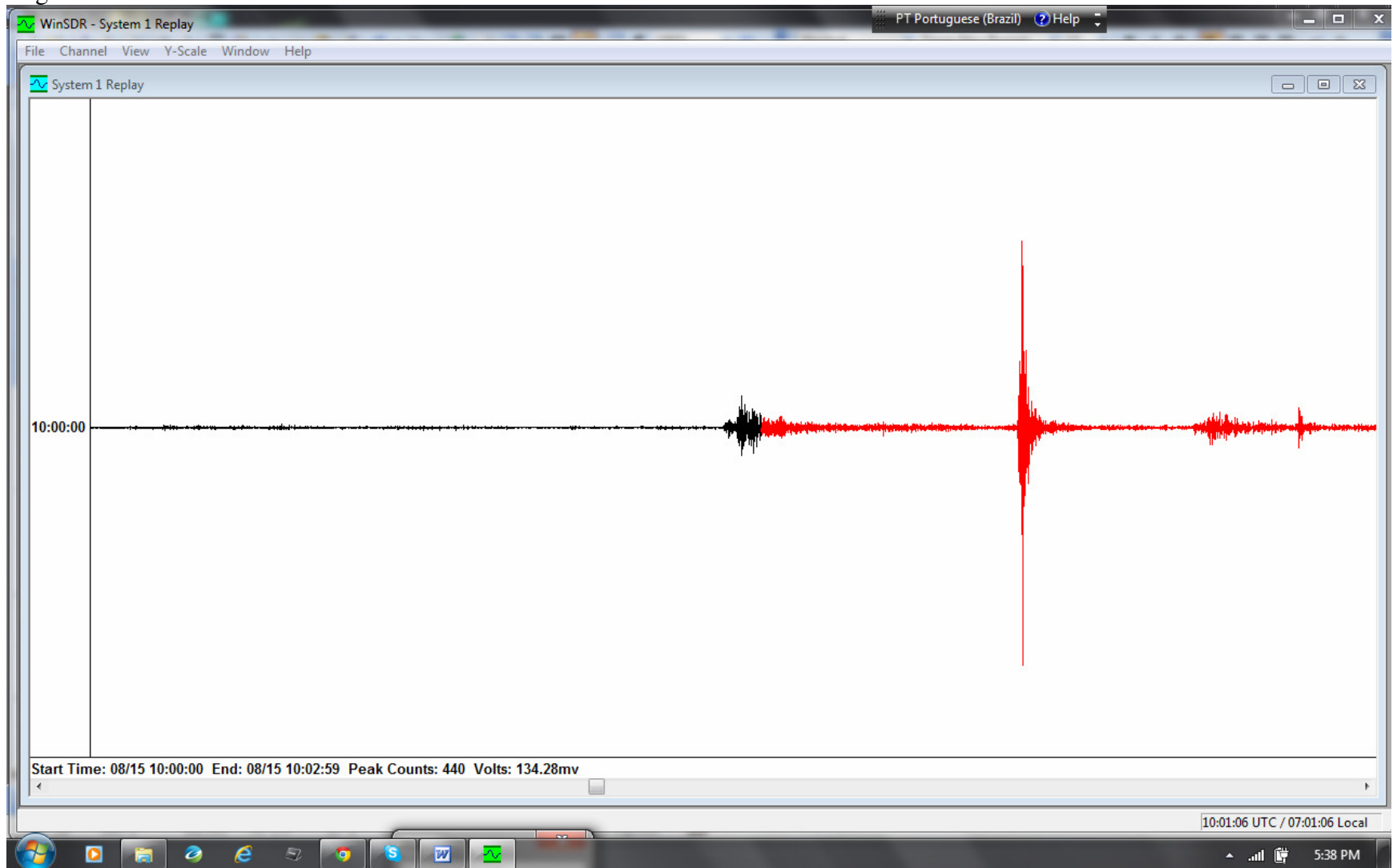
Evento 9

Start: 8/15/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 3929/-3428 X: 2.49.0 Y: 4kc
Org: 10:01:31.6 P: 10:01:46.6 S: 10:01:57.7 Diff: 11.1sec Dist: 0.783deg 87.0km 54.1mi Mag: MI?? JB: 33



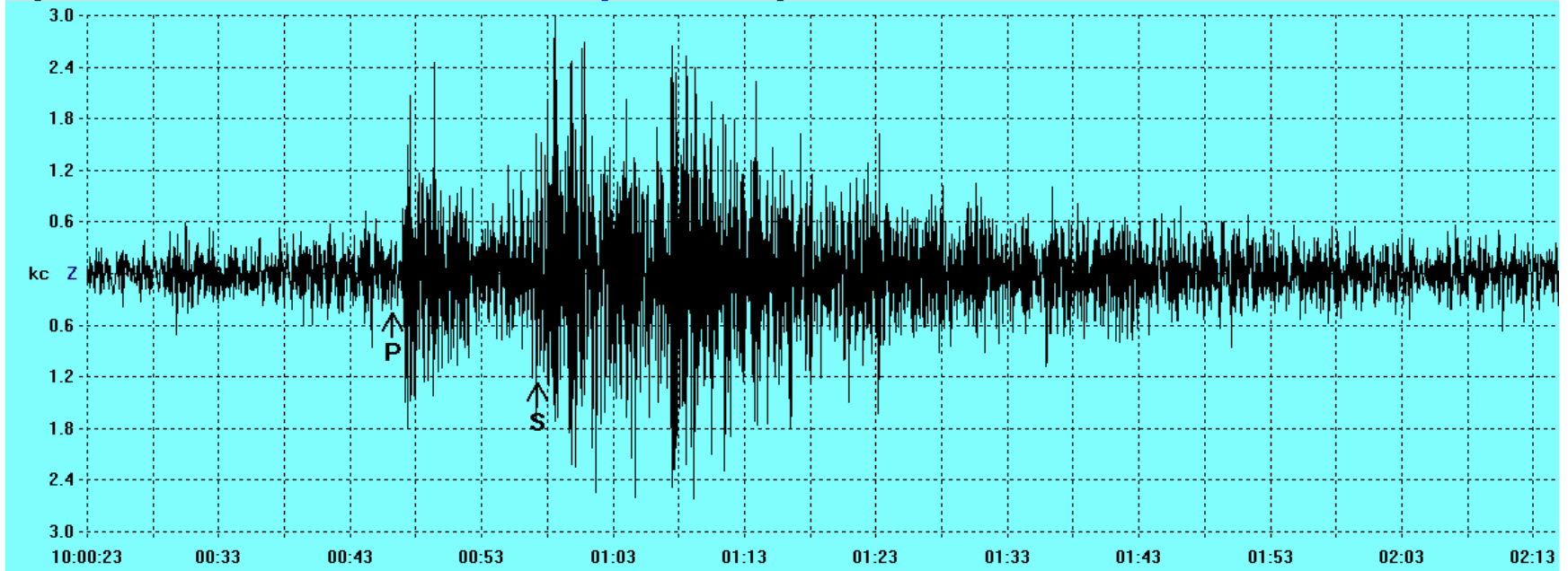
Evento 9

Registro de SANT2:



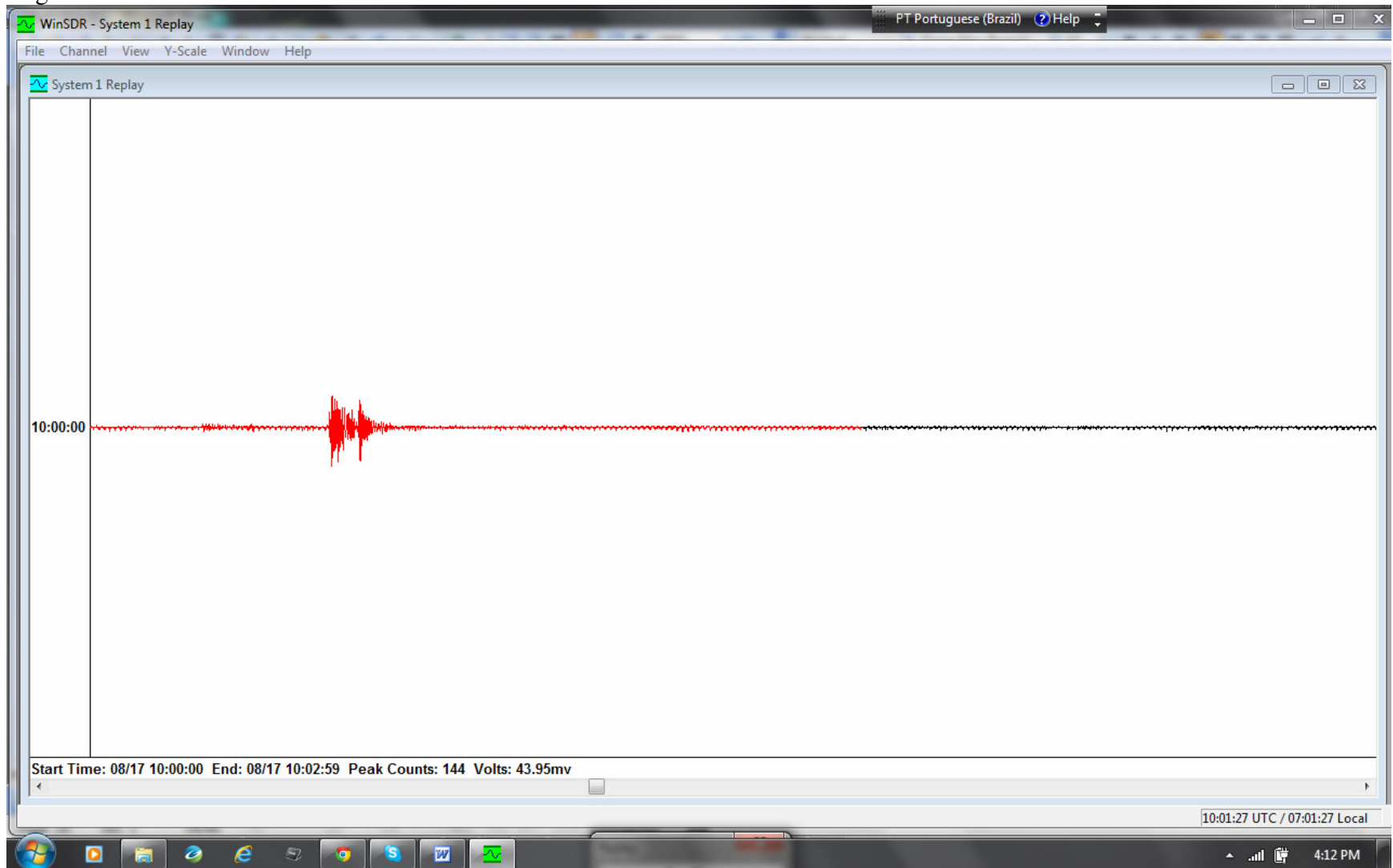
Eventos superpuestos:

Start: 8/17/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2989/-2619 X: 1:52.0 Y: 3kc
Org: 10:00:31.3 P: 10:00:46.2 S: 10:00:57.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

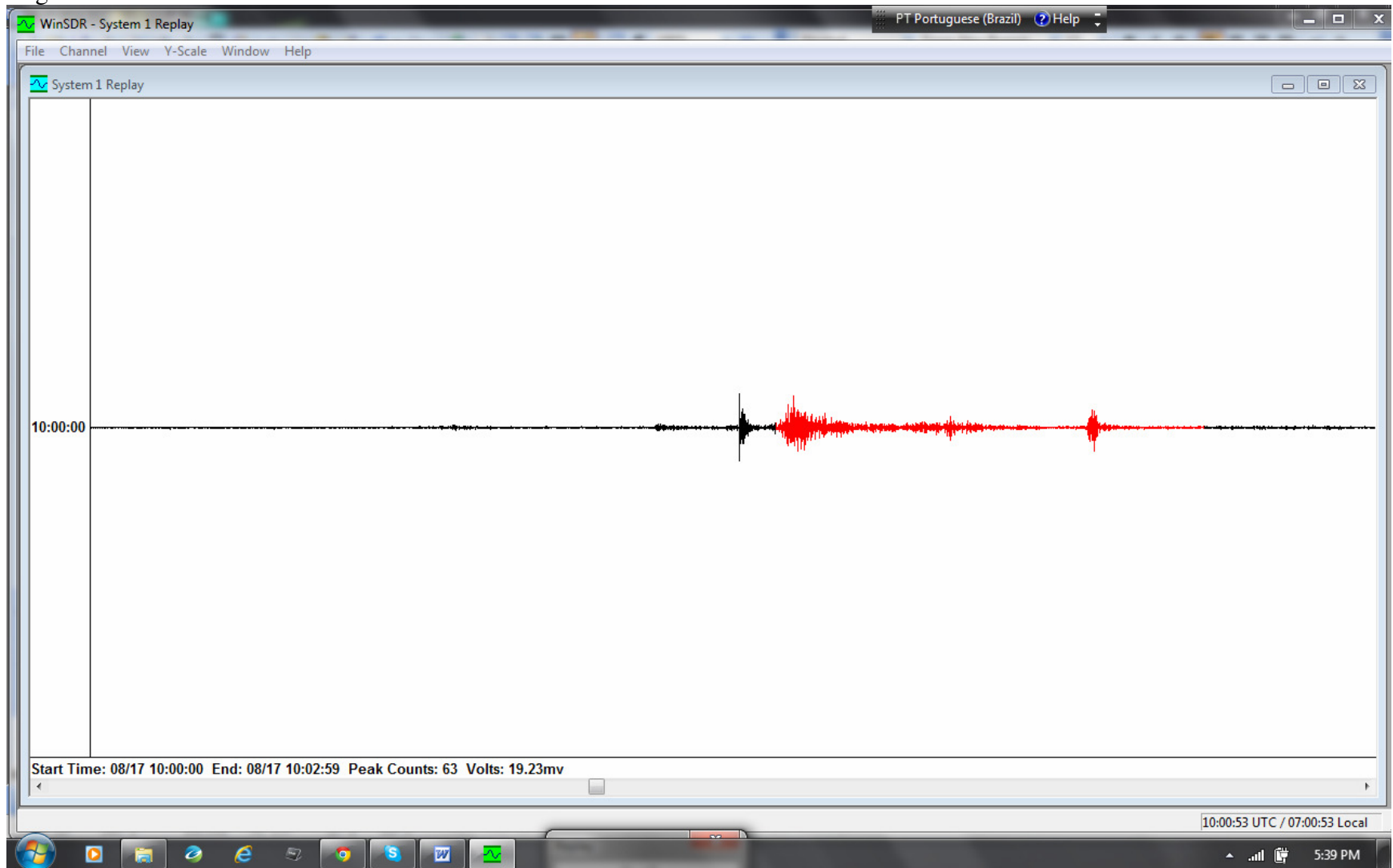


Evento 10

Registro de SANT1:

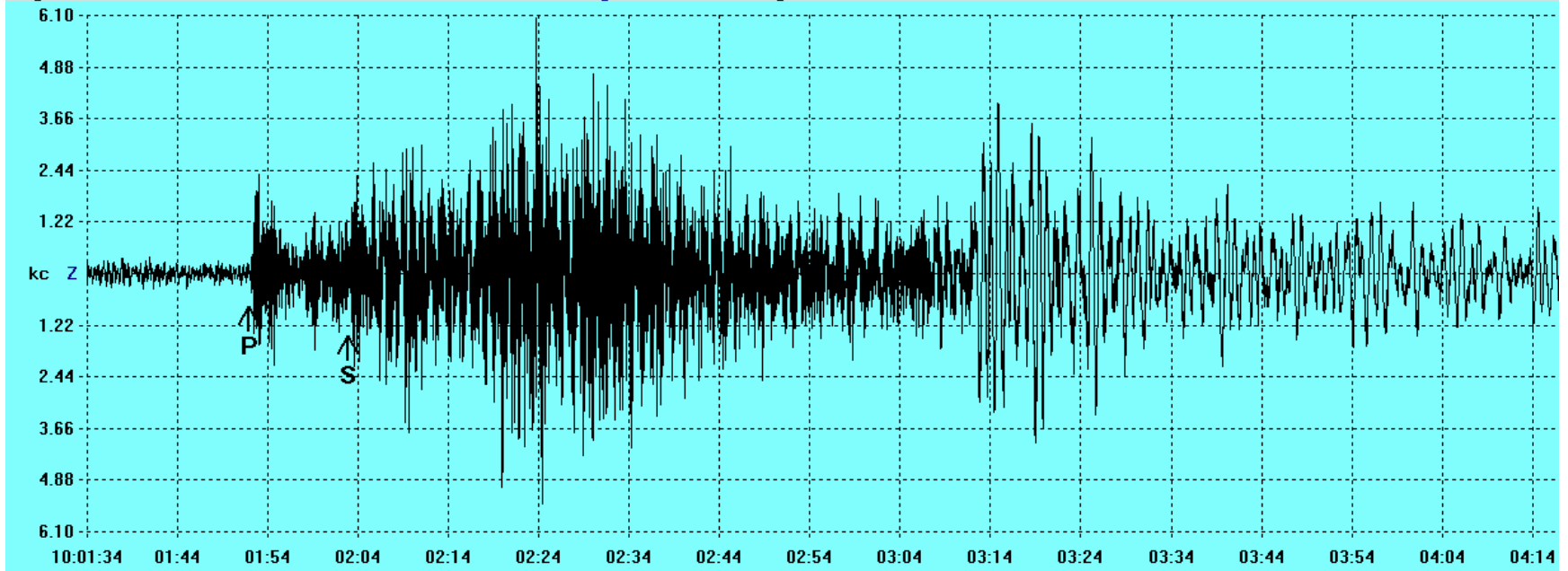


Registro de SANT2:



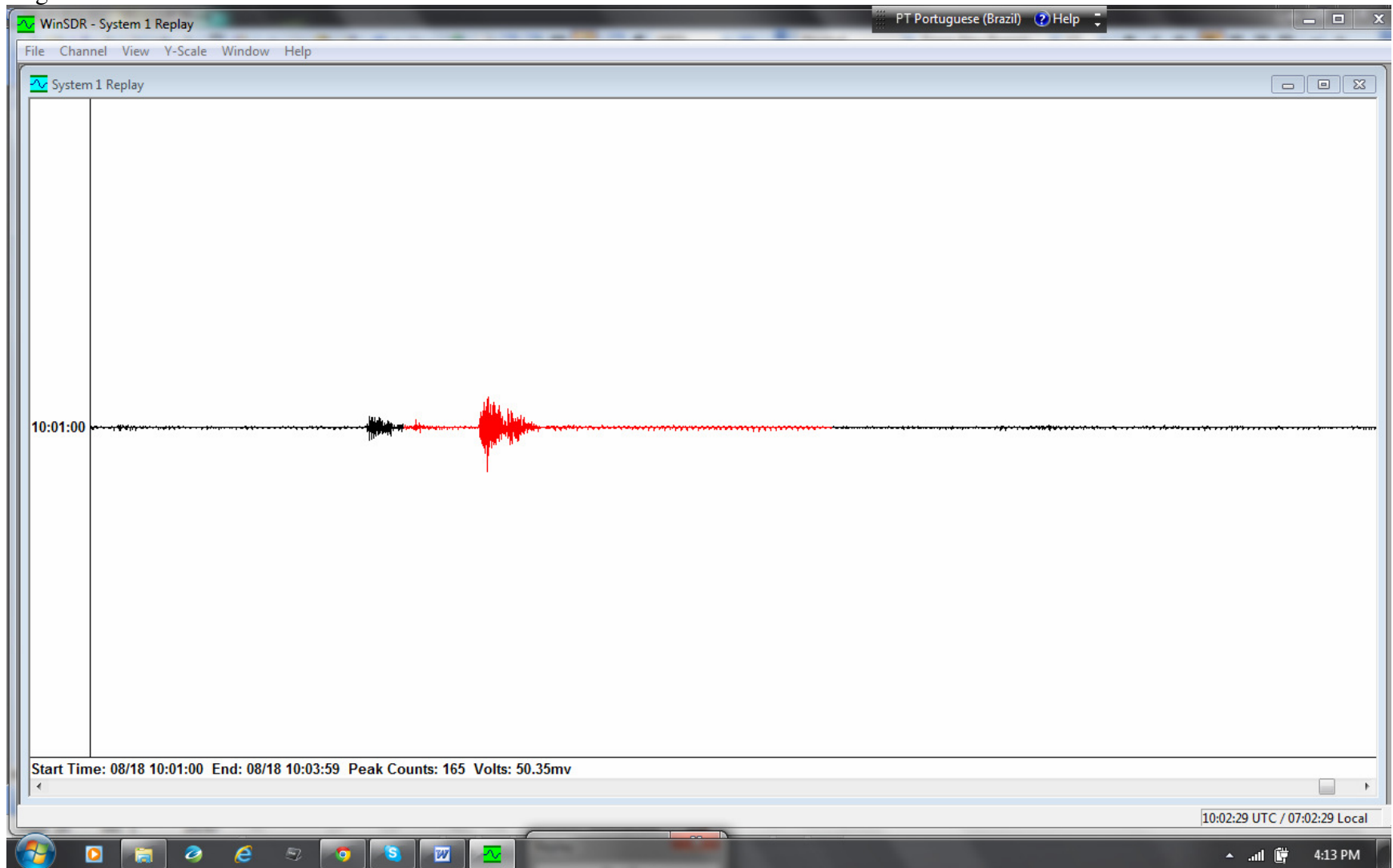
Eventos superpuestos:

Start: 8/18/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 6025/-5450 X: 2.43.0 Y: 6.1kc
Org: 10:01:37.0 P: 10:01:51.9 S: 10:02:02.9 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

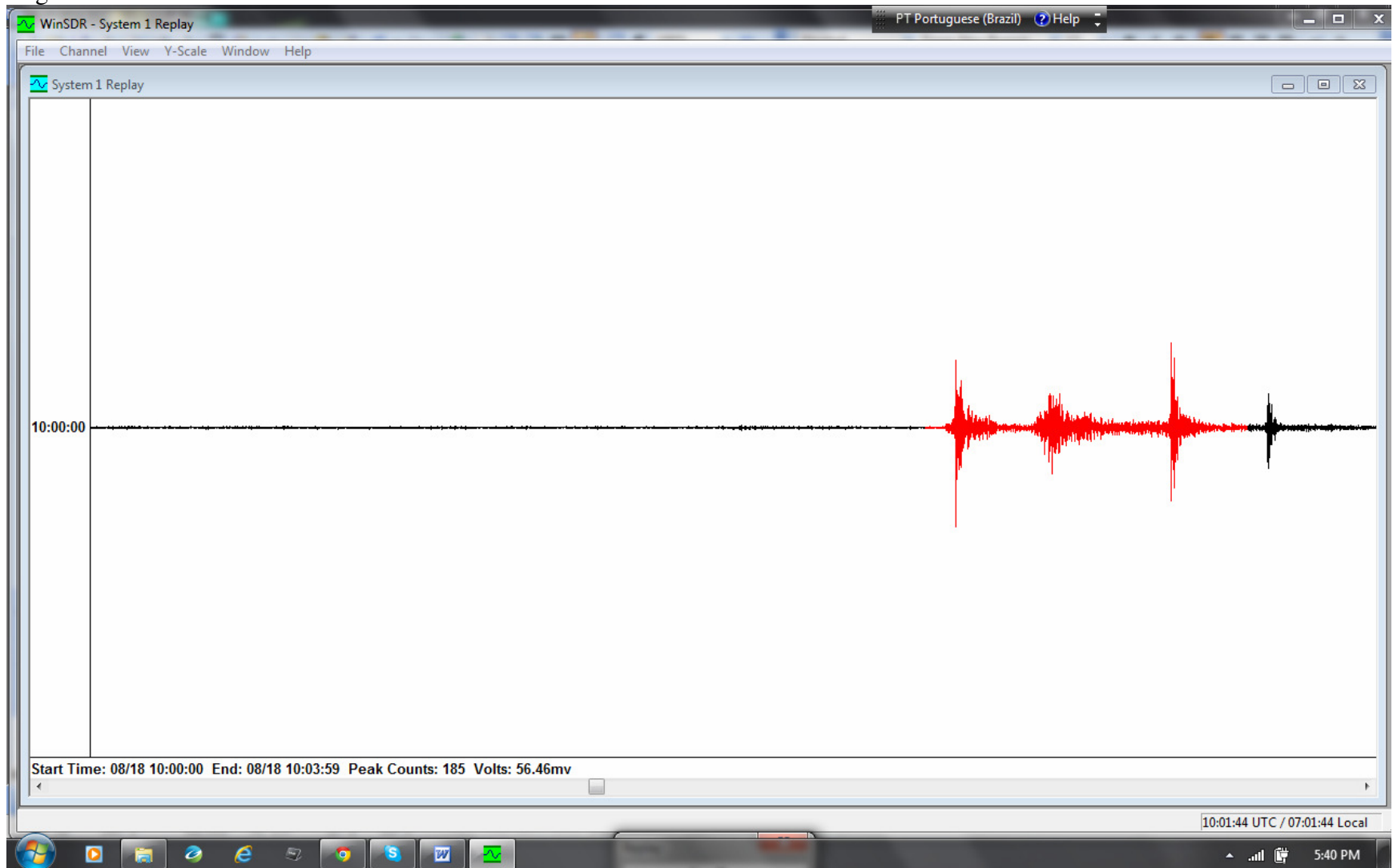


Evento 11

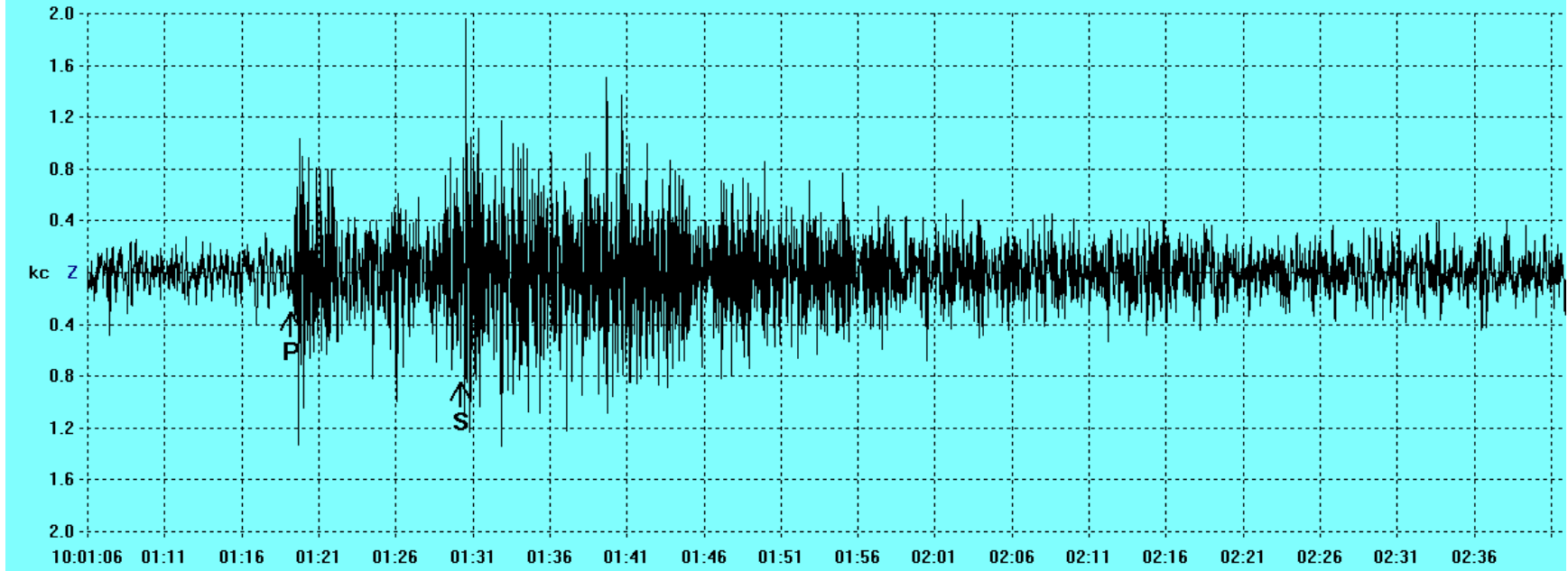
Registro de SANT1:



Registro de SANT2:

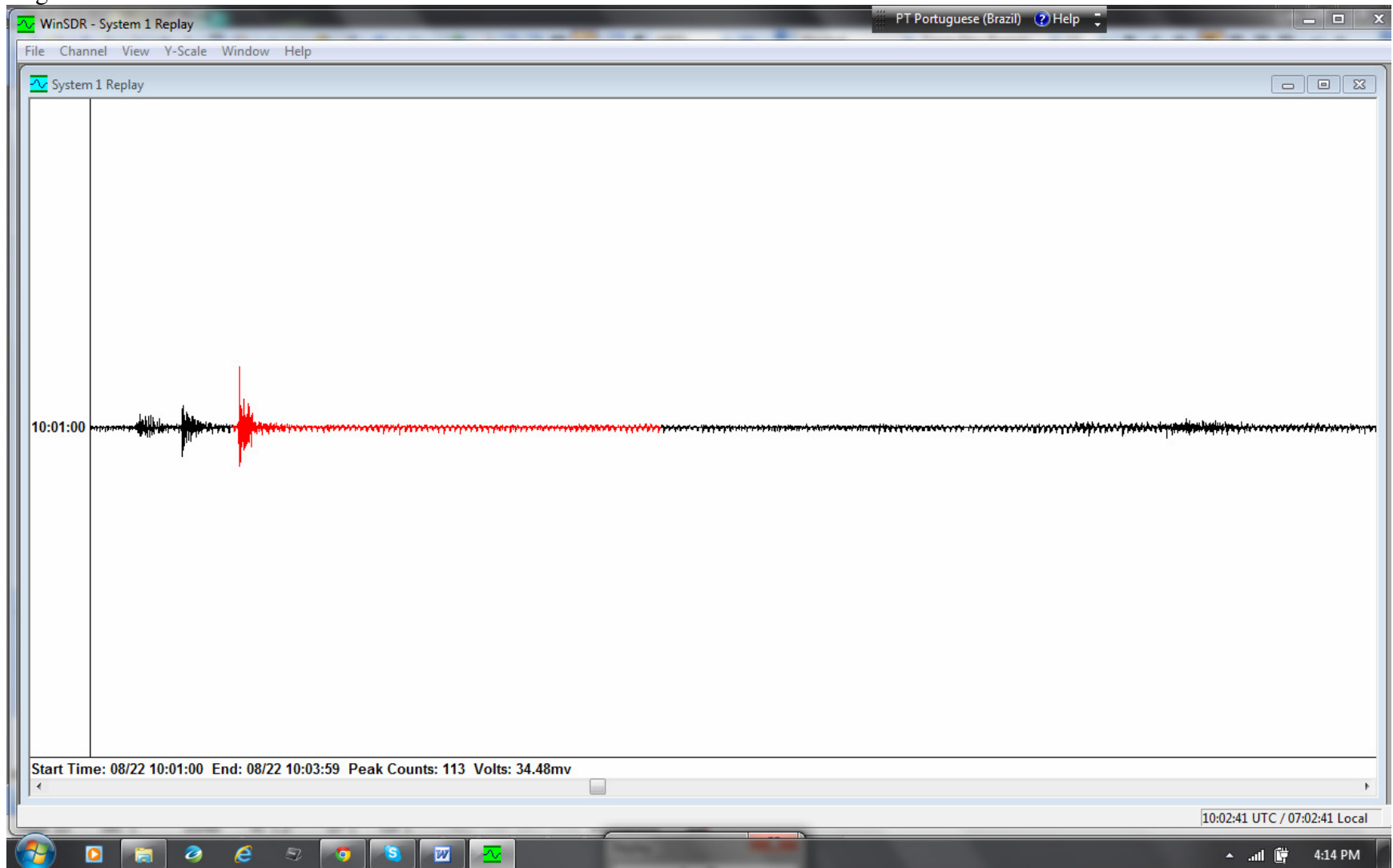


Start: 8/22/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 1958/-1341 X: 1:36.0 Y: 2kc
Org: 10:01:04.3 P: 10:01:19.2 S: 10:01:30.2 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

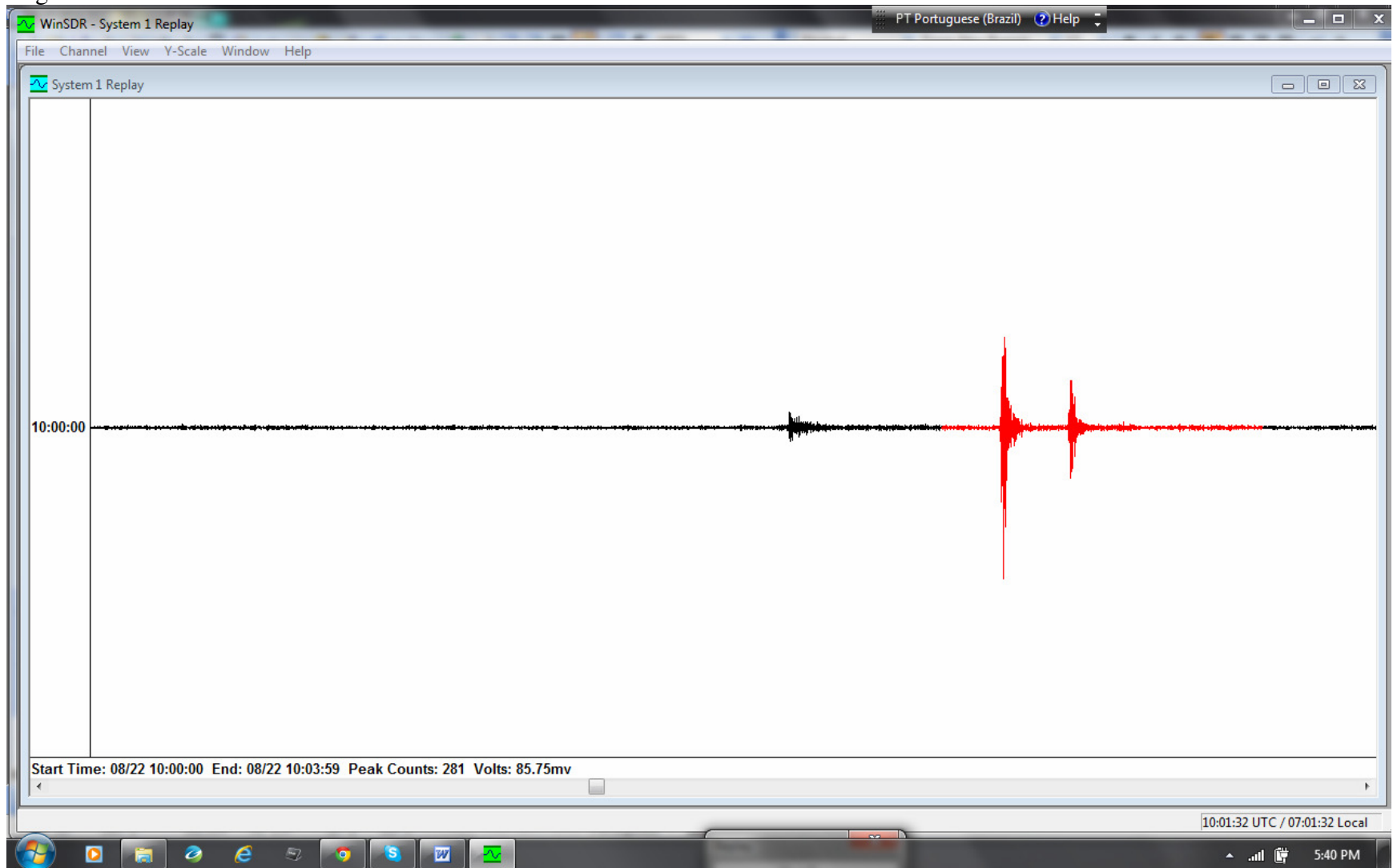


Evento 12

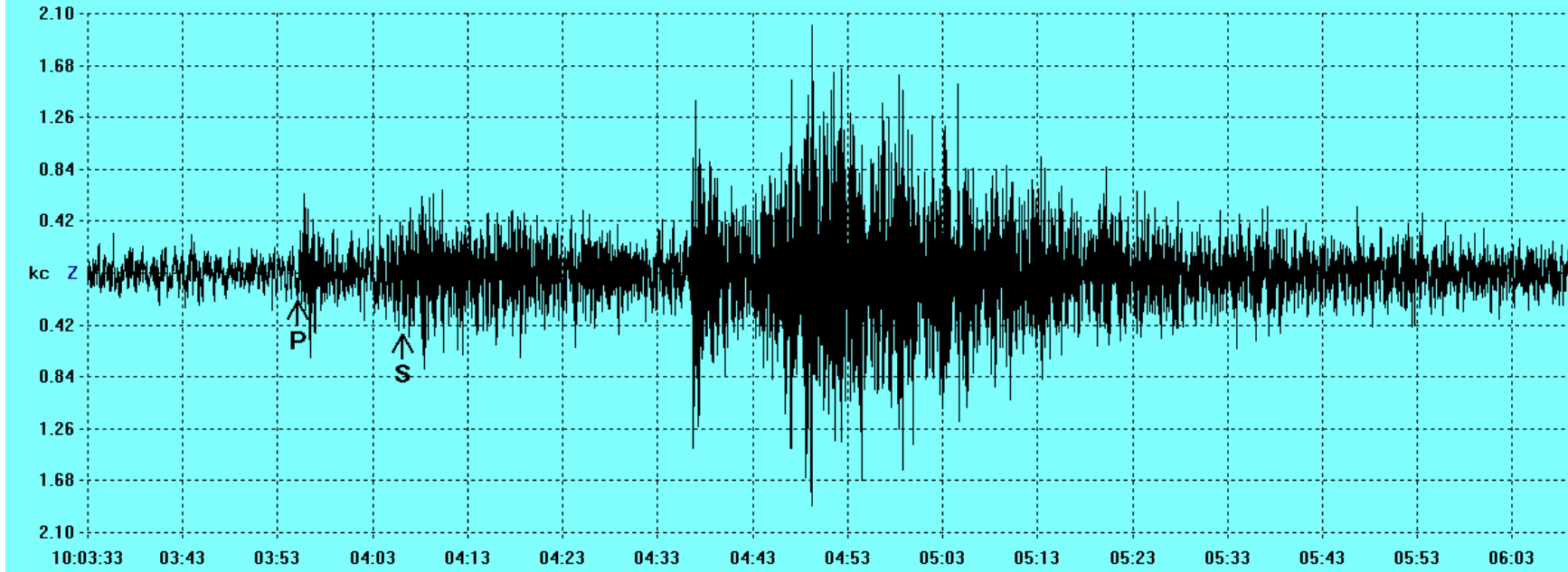
Registro de SANT1:



Registro de SANT2:

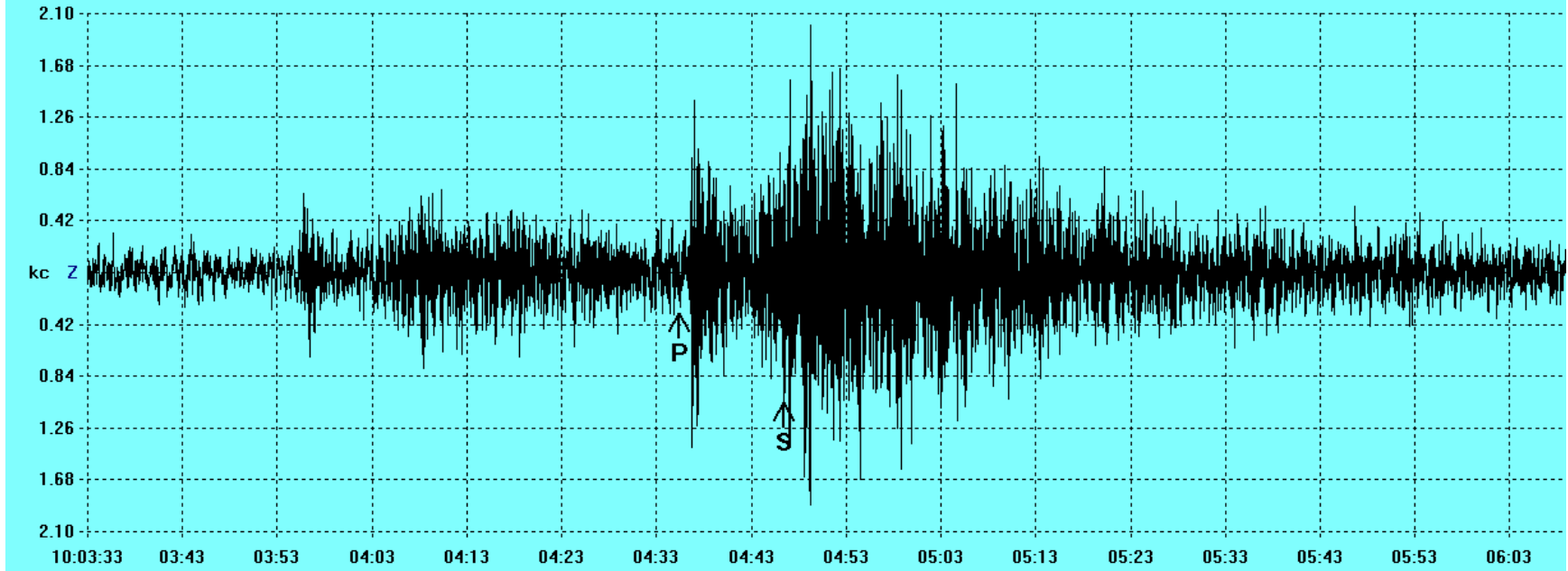


Start: 8/24/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2002/-1885 X: 2.36.0 Y: 2.1kc
Org: 10:03:40.2 P: 10:03:55.1 S: 10:04:06.1 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



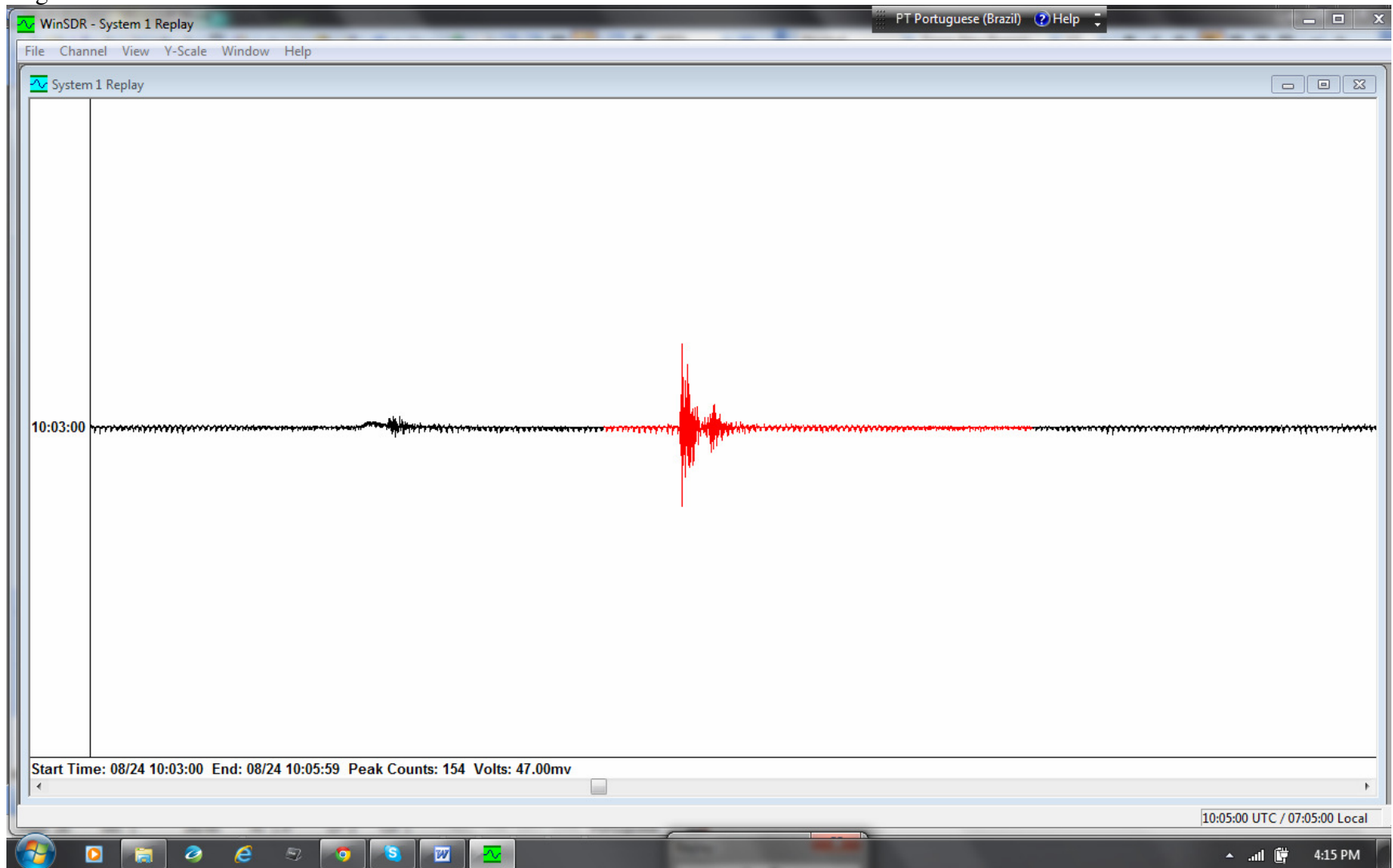
Evento 13

Start: 8/24/12 9:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2002/-1885 X: 2.36.0 Y: 2.1kc
Org: 10:04:20.5 P: 10:04:35.4 S: 10:04:46.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

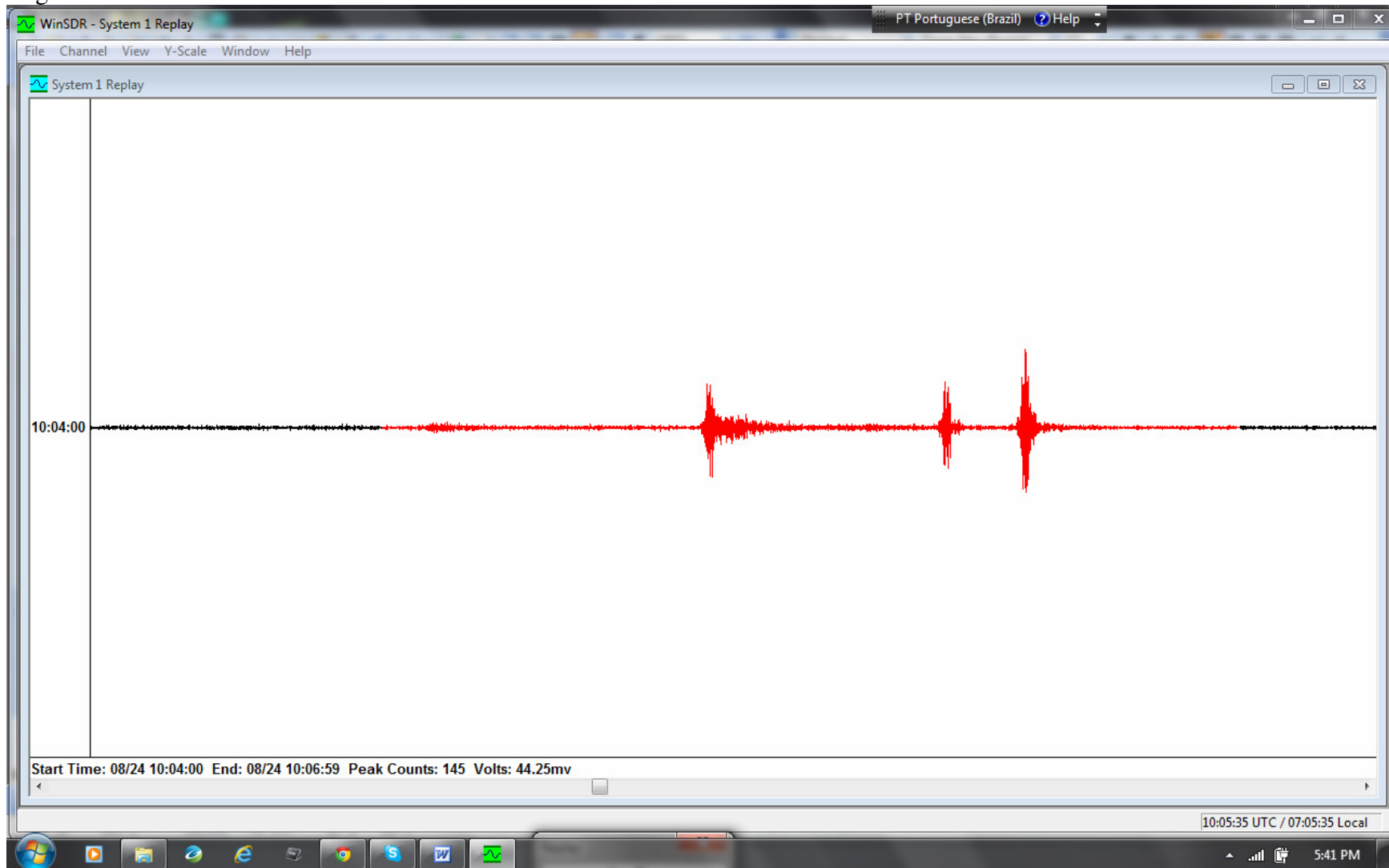


Evento 13

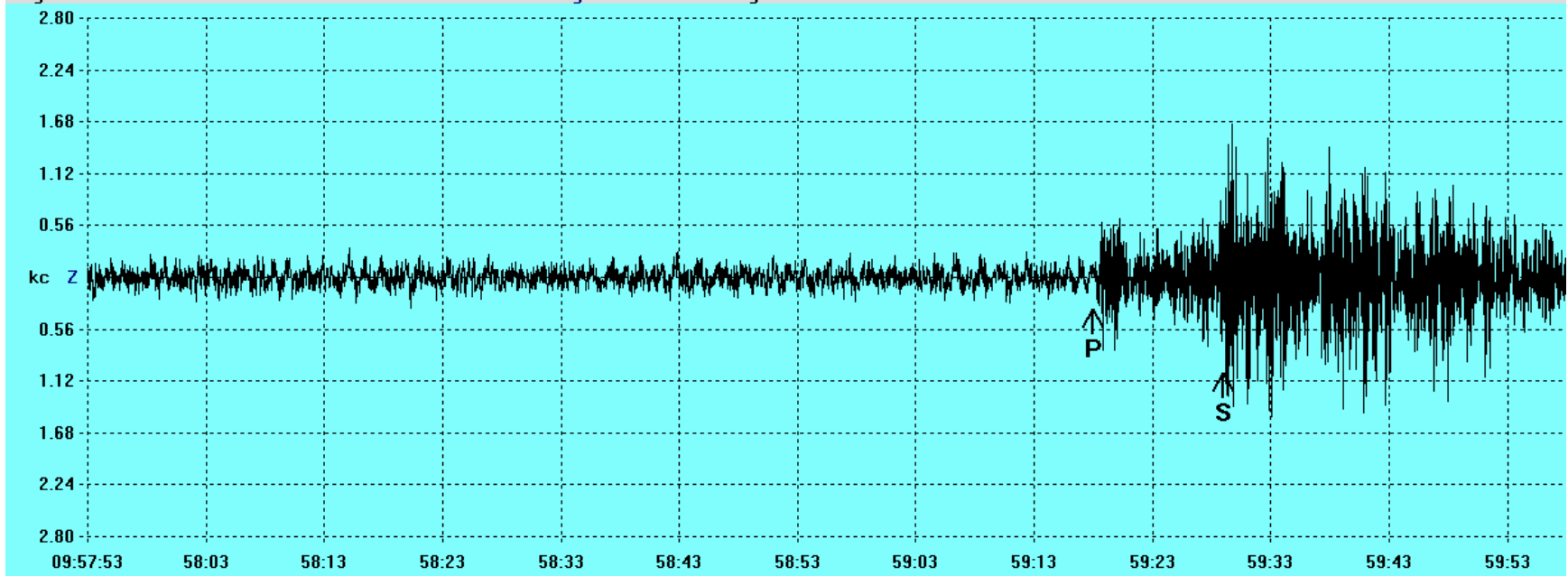
Registro de SANT1:



Registro de SANT2:

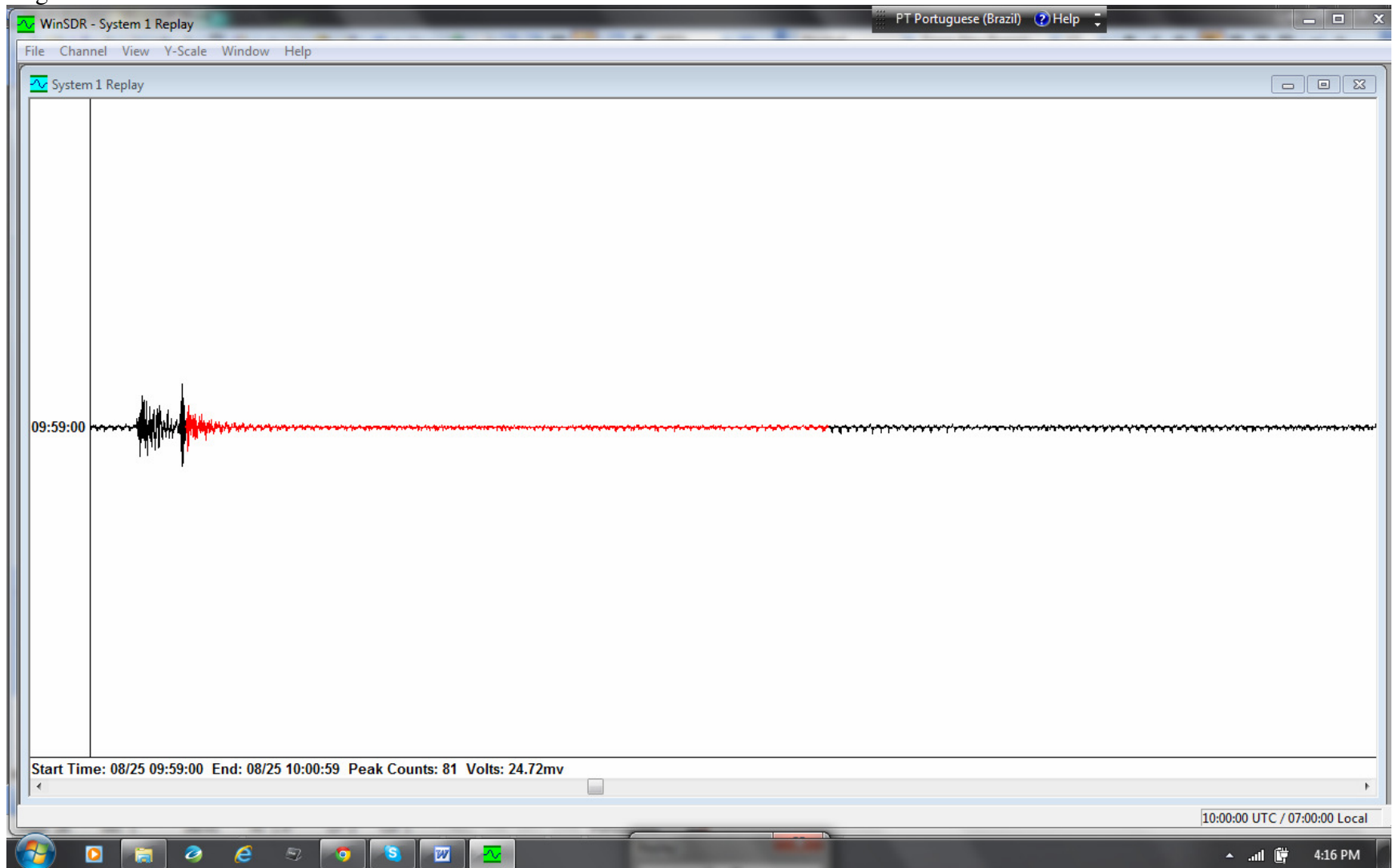


Start: 8/25/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 2715/-2564 X: 2.05.0 Y: 2.8kc
Org: 9:59:03.1 P: 9:59:18.0 S: 9:59:29.0 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33

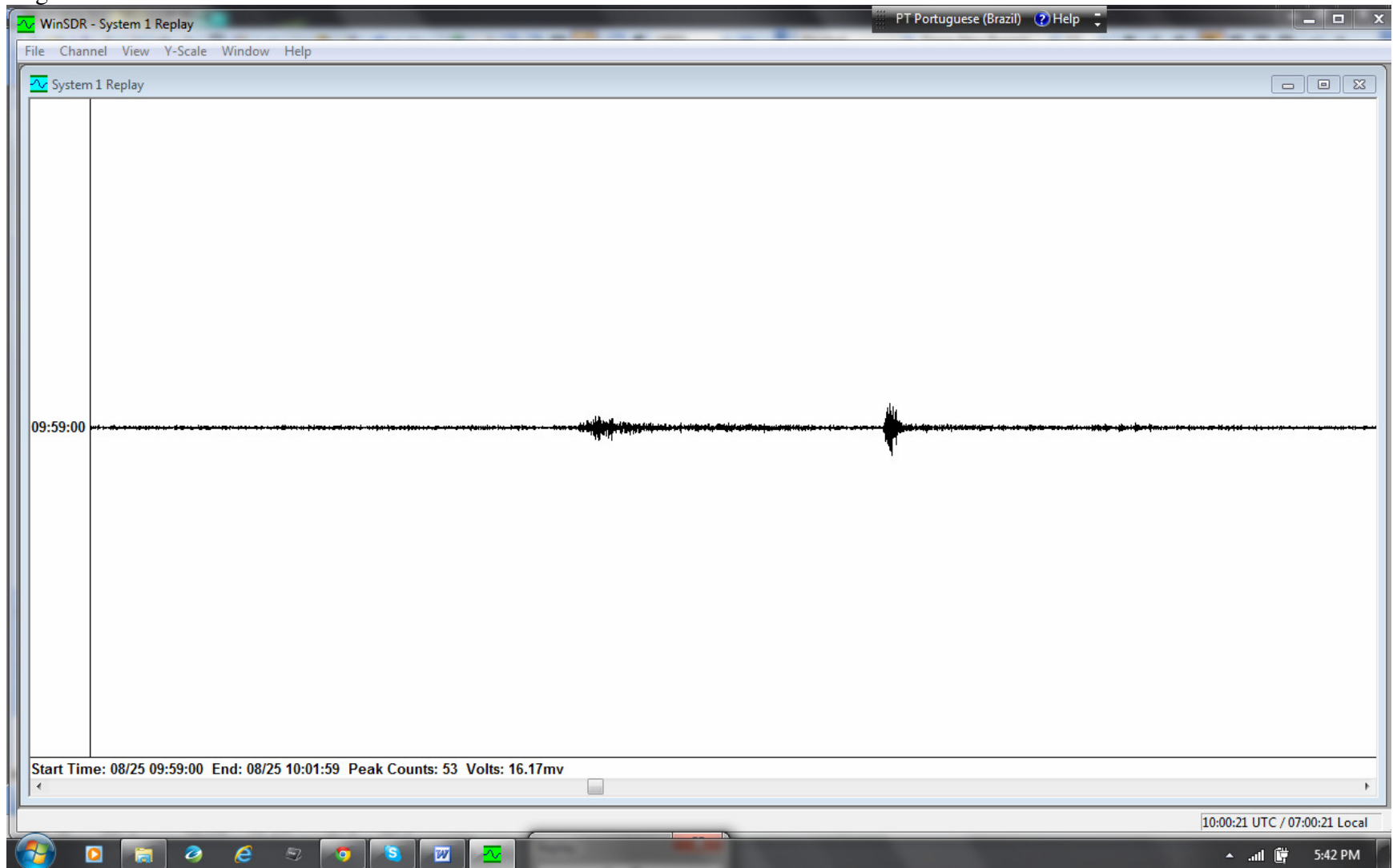


Evento 14

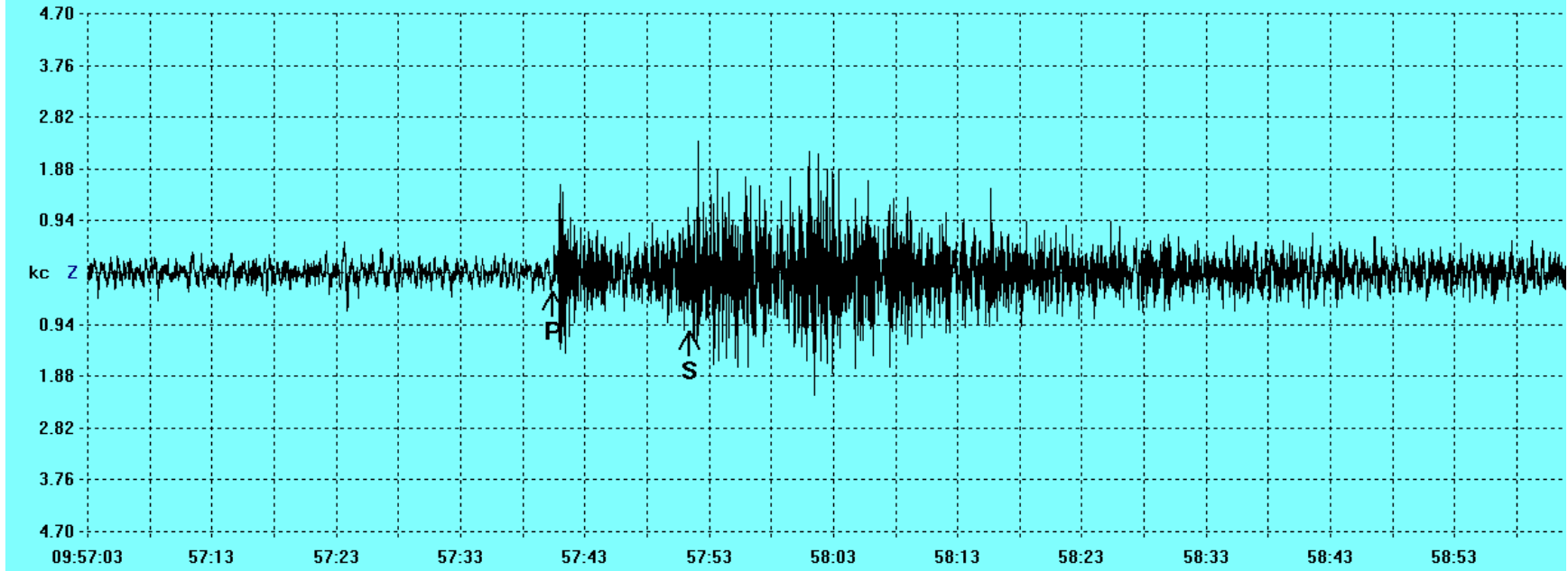
Registro de SANT1:



Registro de SANT2:

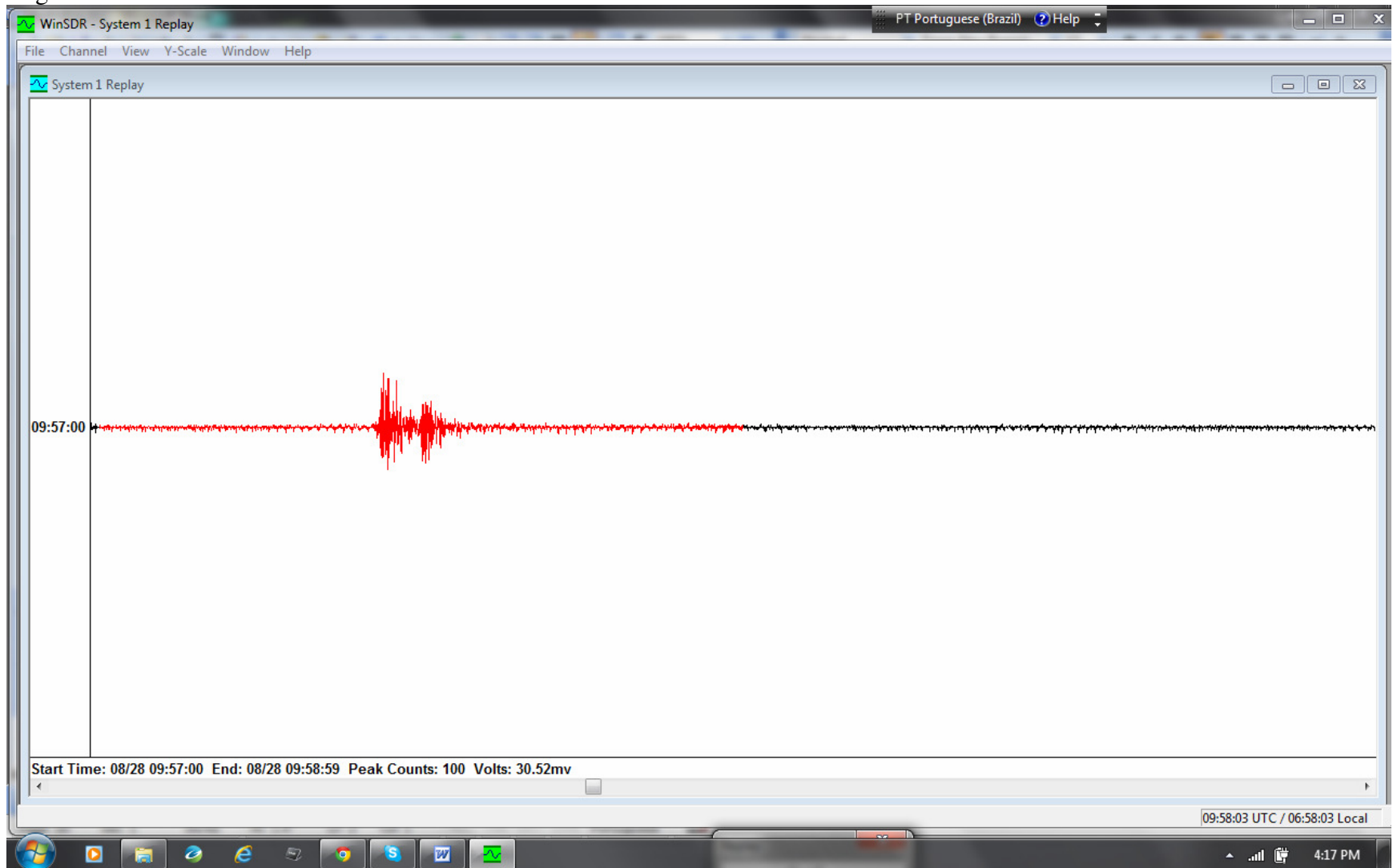


Start: 8/28/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999
Max/Min: 4698/-4499 X: 1:59.0 Y: 4.7kc
Org: 9:57:25.5 P: 9:57:40.4 S: 9:57:51.4 Diff: 11.0sec Dist: 0.772deg 85.8km 53.3mi Mag: MI?? JB: 33



Evento 15

Registro de SANT1:



Principais Telessismos Registrados no Canteiro de Obras da UHE Santo Antônio

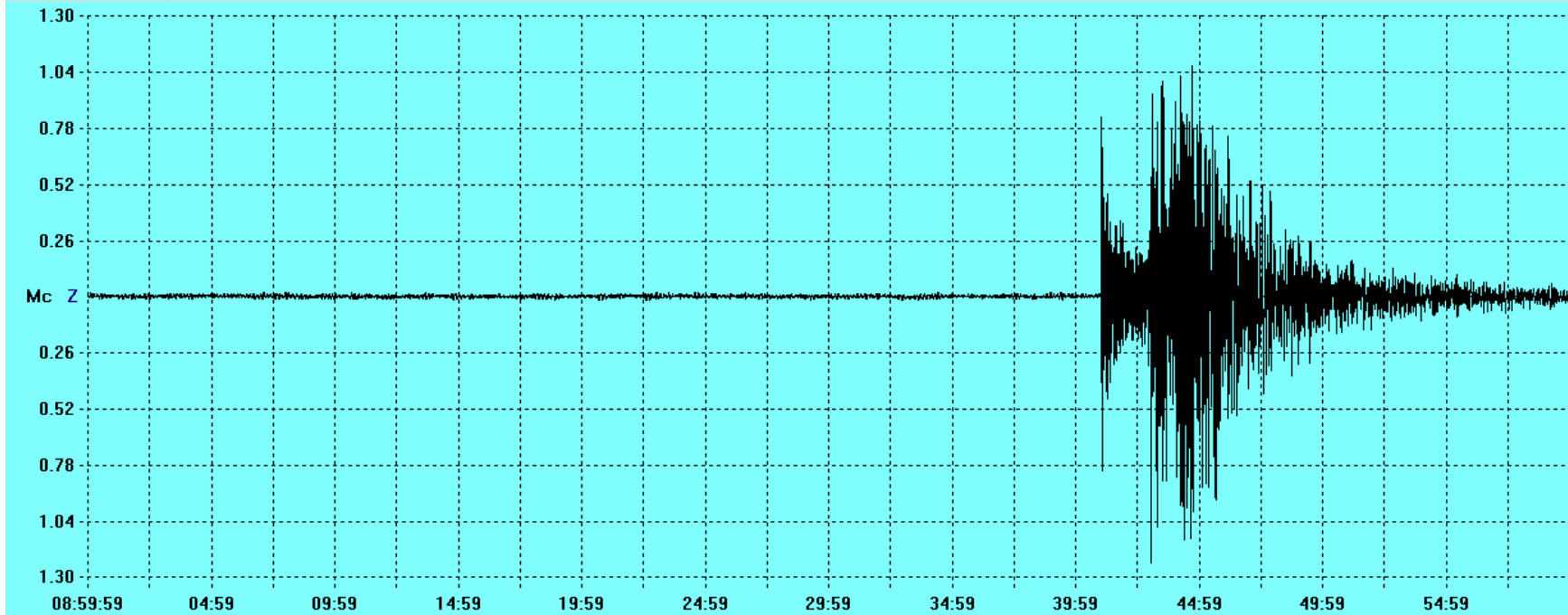
**Agosto
2012**

Registros das Estação SAML

O sismograma a seguir não foi filtrado:

Start: 8/02/12 8:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 1064103/-1229930 X: 1:00:00 Y: 1.3Mc

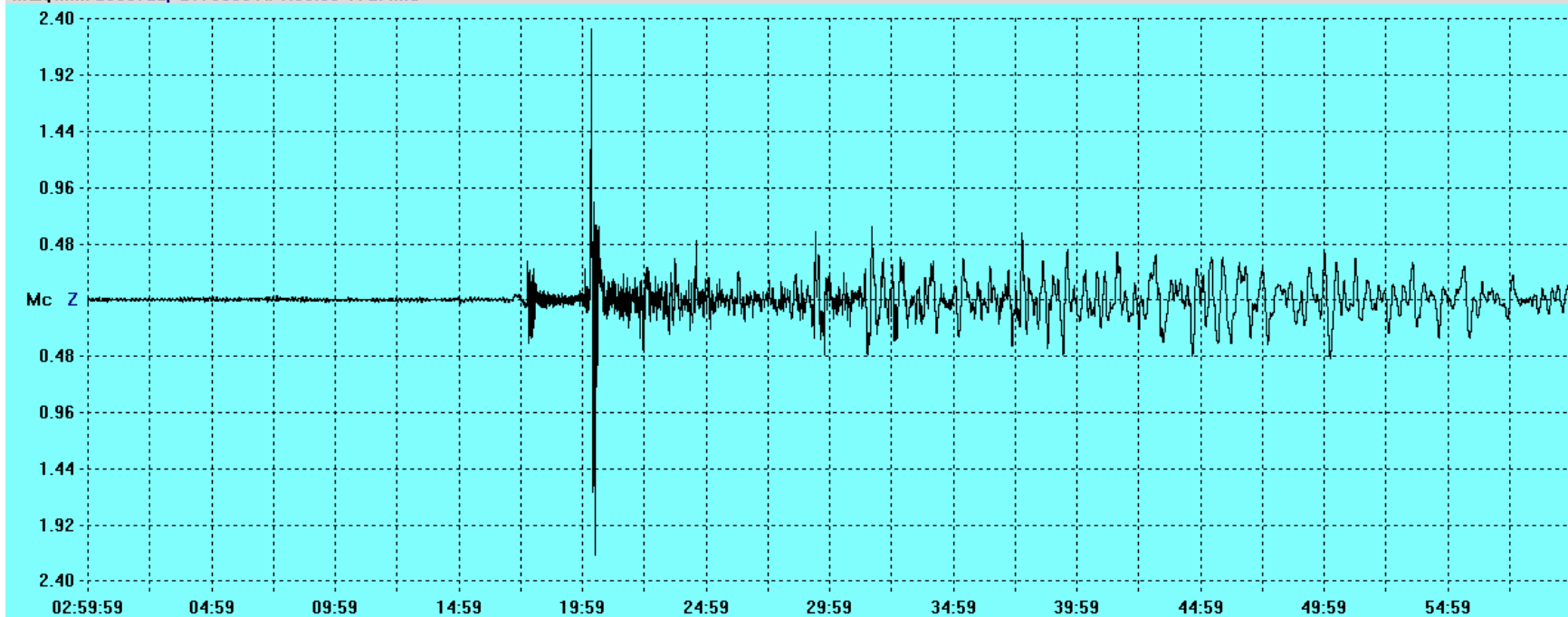


Telessismo: PDE-Q 2012 08 02 093830.85 -8.41 -74.26 144 6.1 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 8/14/12 2:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 2303722/-2175699 X: 1:00:00 Y: 2.4Mc

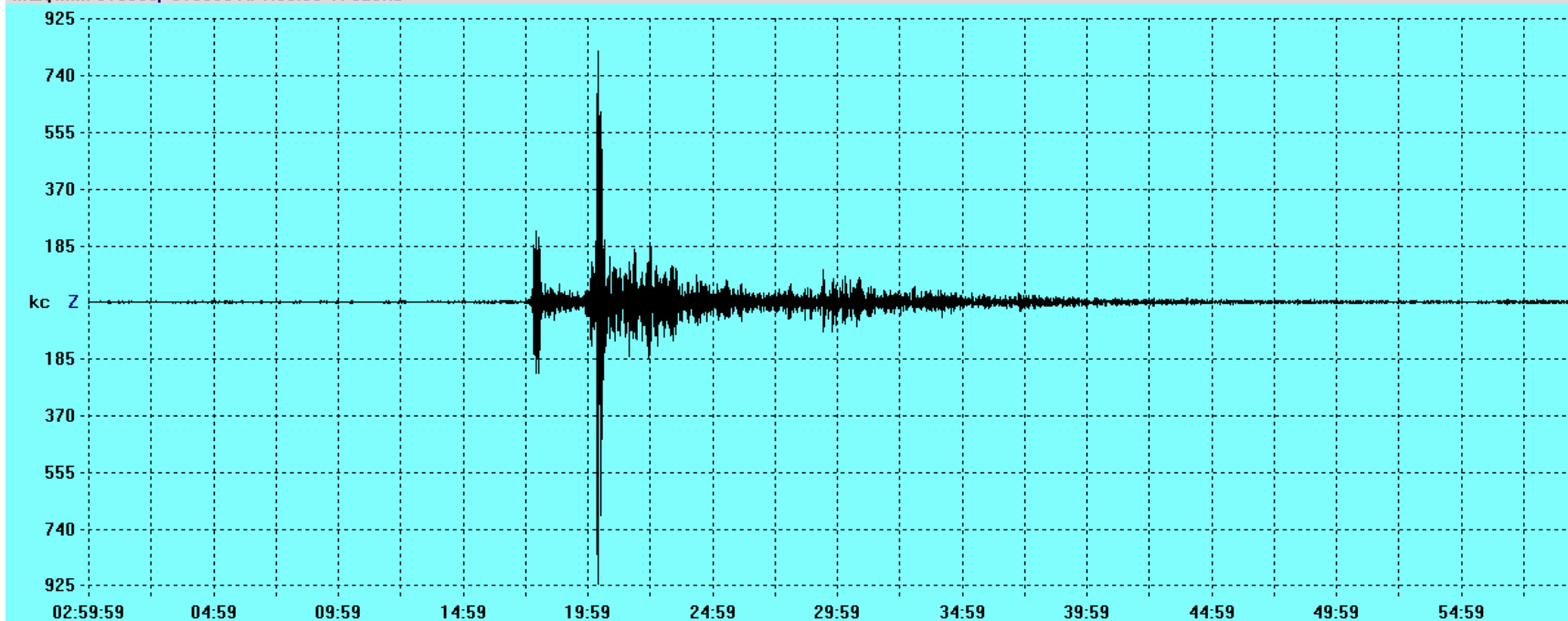


Telessismo: PDE-Q 2012 08 14 025942.02 49.78 145.13 625 7.7 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 8/14/12 2:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 815500/-916996 X: 1:00:00 Y: 925kc

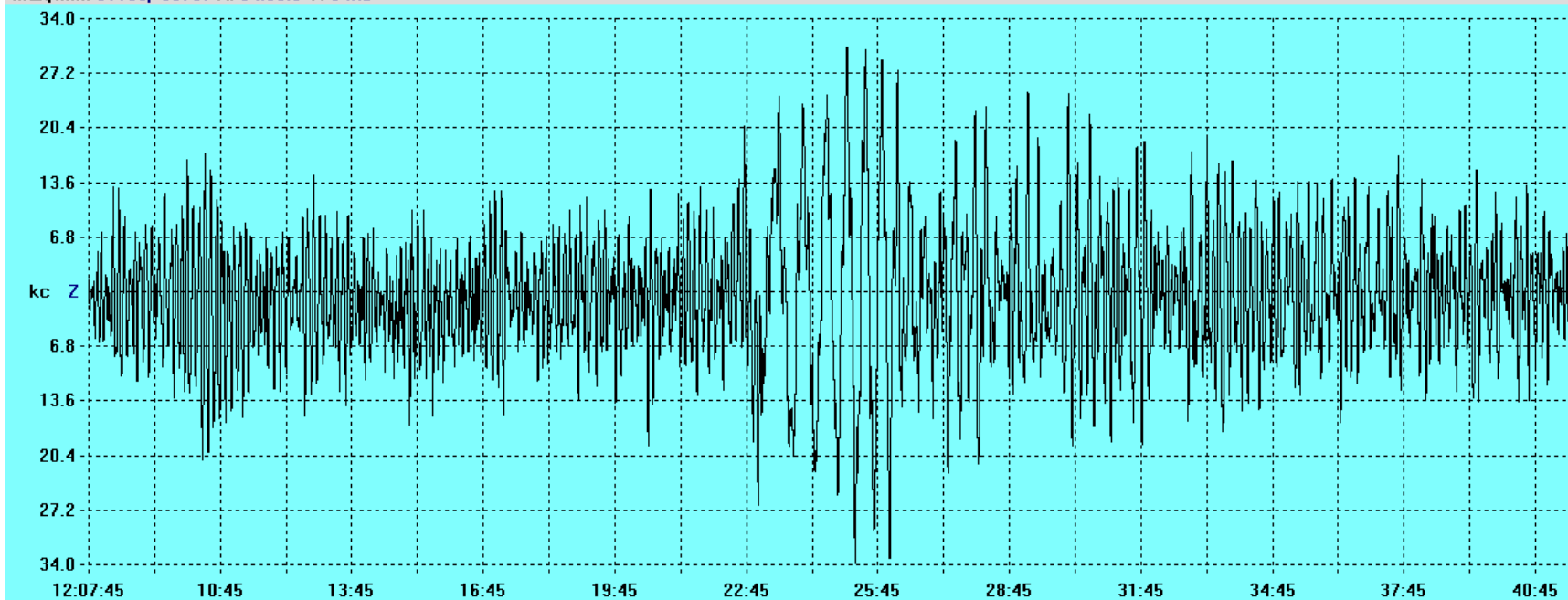


Telessismo: PDE-Q 2012 08 14 025942.02 49.78 145.13 625 7.7 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 8/16/12 11:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 31103/-33787 X: 34:09.0 Y: 34kc

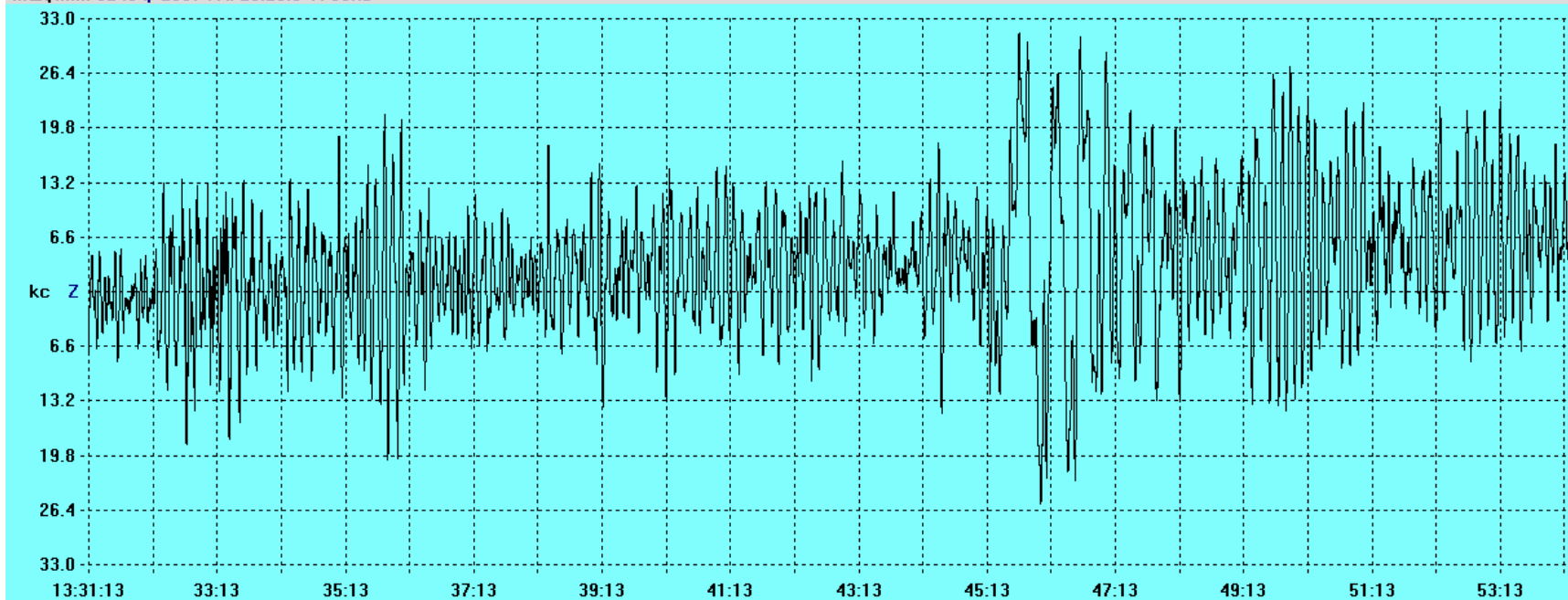


Telessismo: PDE-Q 2012 08 16 120821.42 7.37 -36.82 10 5.6 MwGCMT

O sismograma a seguir não foi filtrado:

Start: 8/16/12 12:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 32494/-28974 X: 23:20.0 Y: 33kc

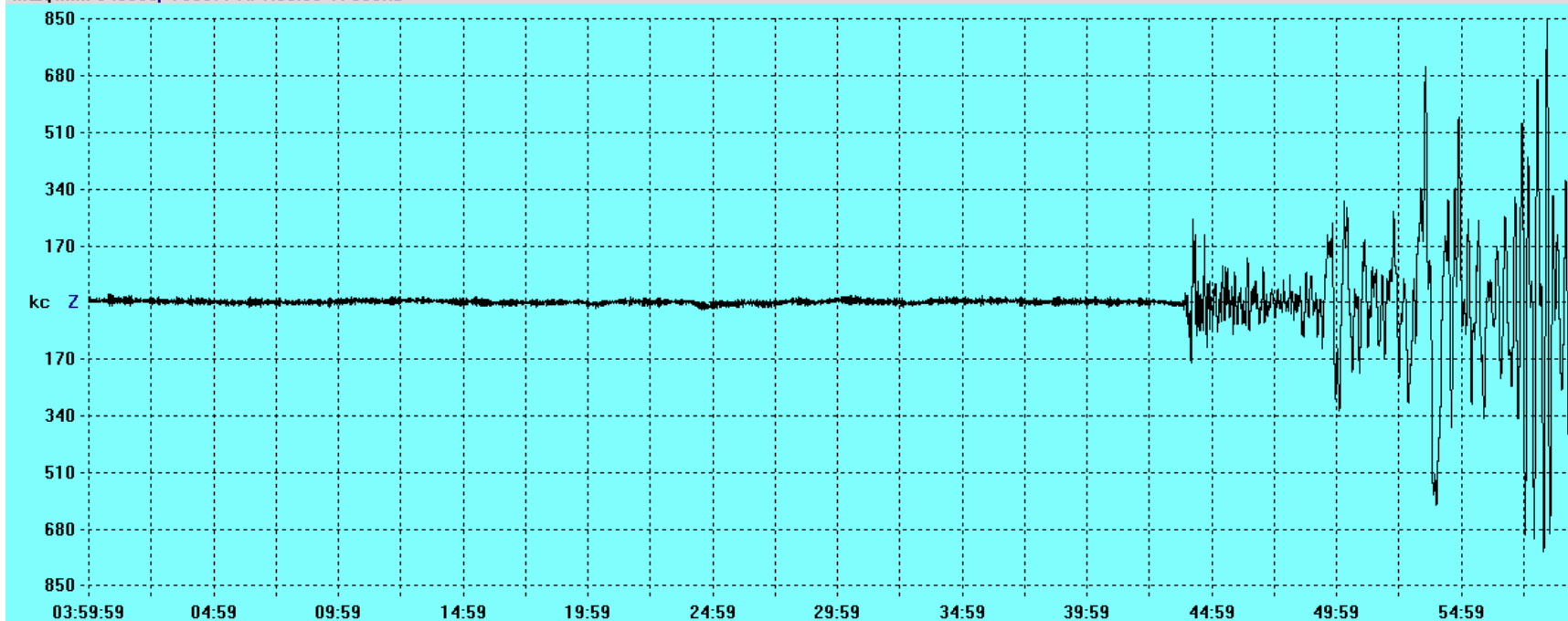


Telessismo: PDE-Q 2012 08 16 132445.45 -36.23 -98.75 10 5.8 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 8/27/12 3:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 849980/-758377 X: 1:00:00 Y: 850kc

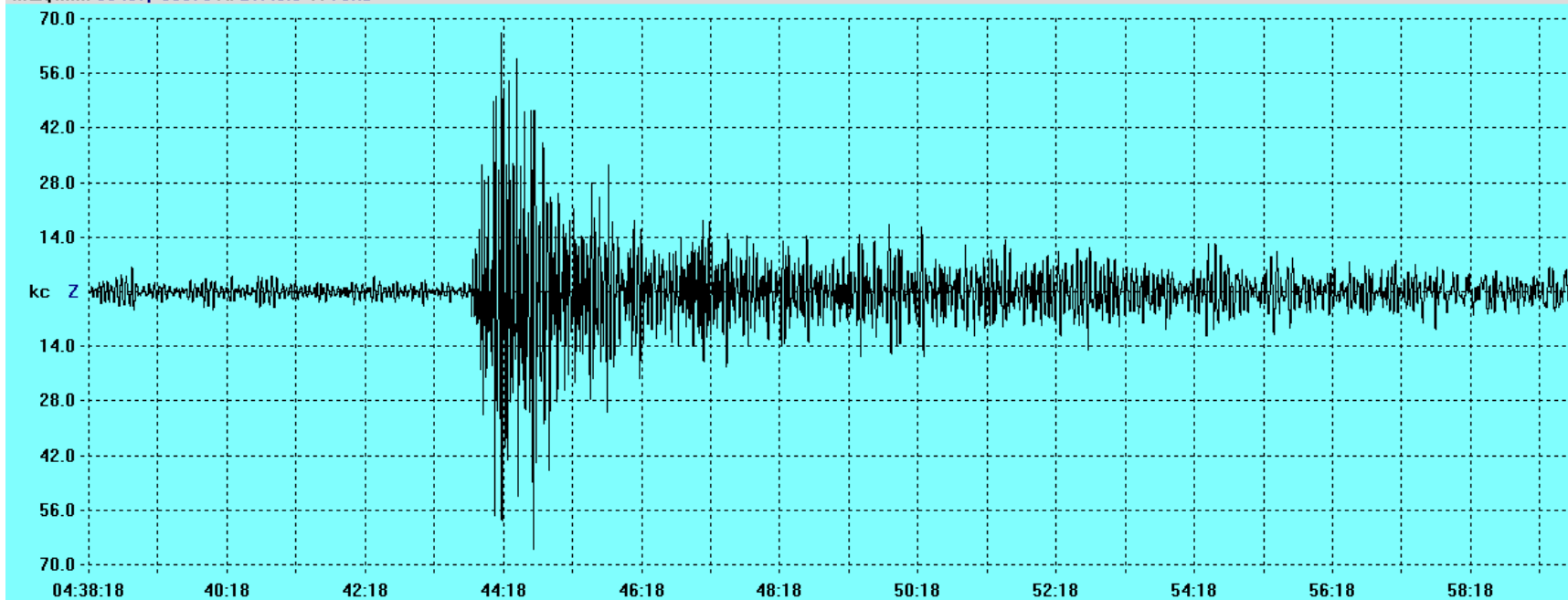


Telessismo: PDE-Q 2012 08 27 043718.98 12.09 -88.59 28 7.3 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 8/27/12 3:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 66497/-65979 X: 21:40.0 Y: 70kc

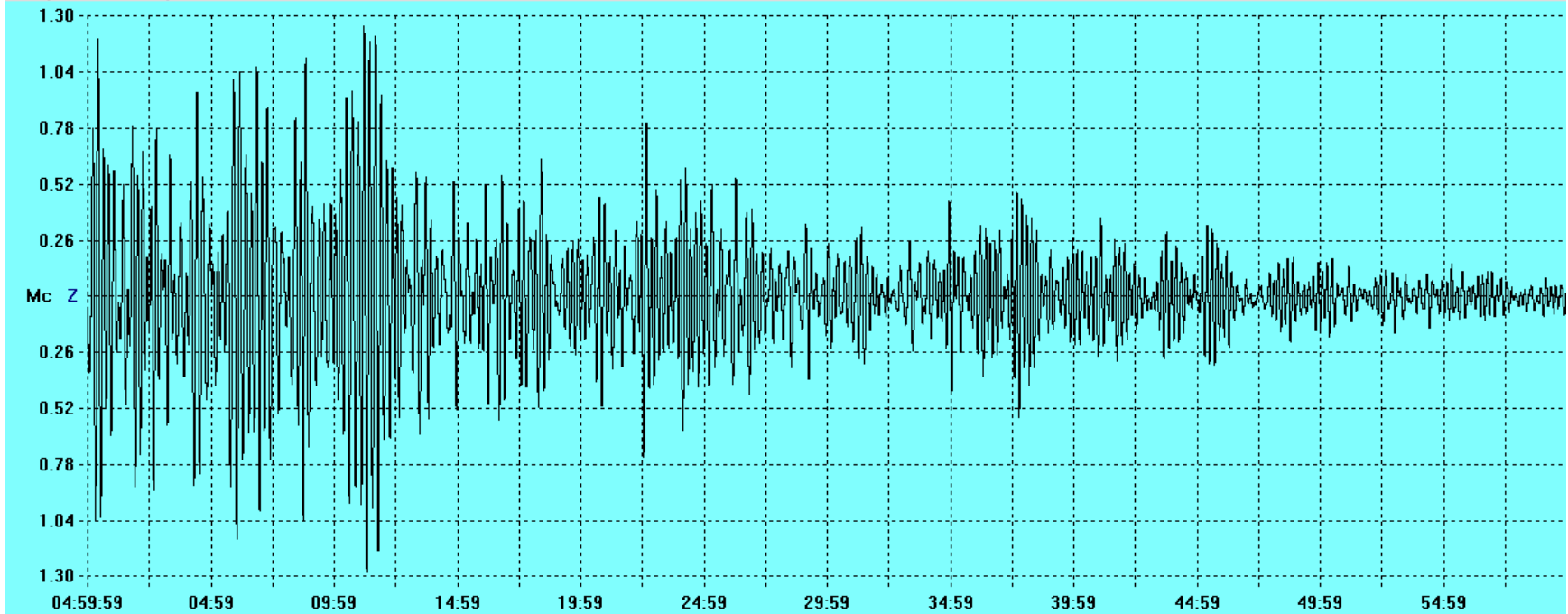


Telessismo: PDE-Q 2012 08 27 043718.98 12.09 -88.59 28 7.3 MwWCMT

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

Start: 8/27/12 4:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 1251097/-1278199 X: 1:00:00 Y: 1.3Mc

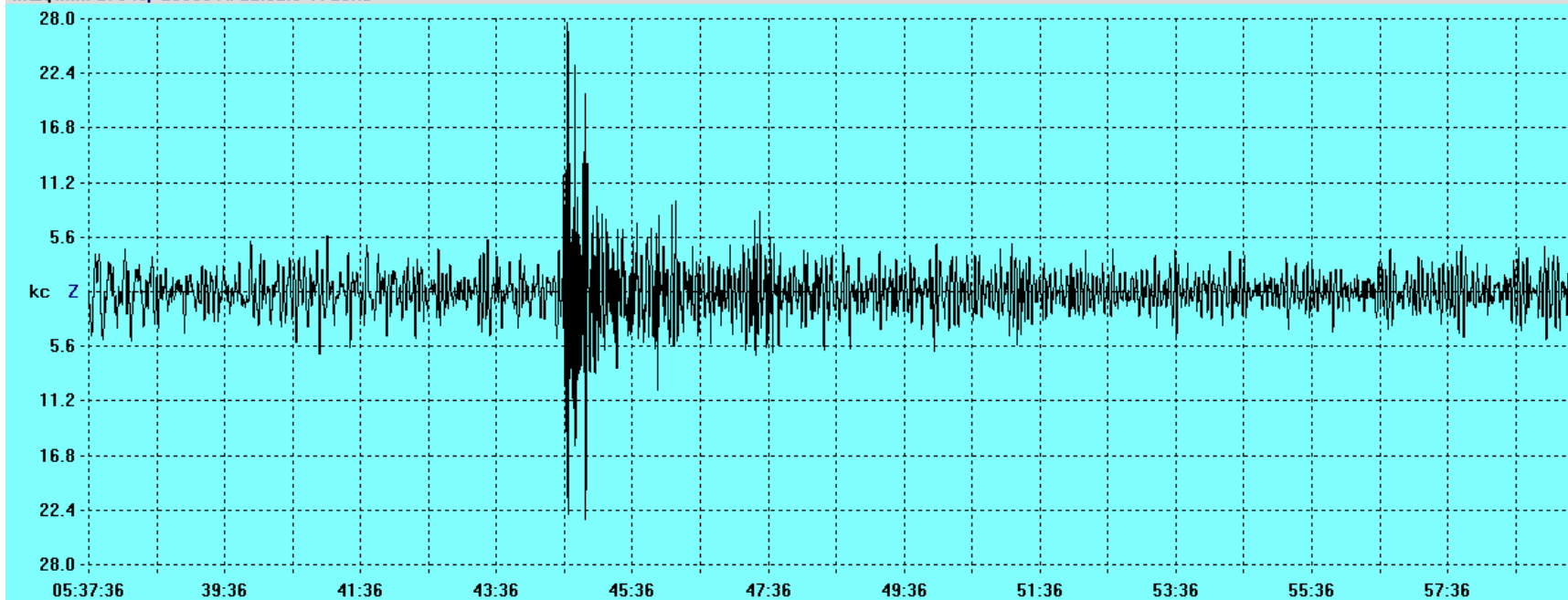


Telessismo: PDE-Q 2012 08 27 043718.98 12.09 -88.59 28 7.3 MwWCMT

Versão filtrada do sismograma acima (detalhe):

Start: 8/27/12 4:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 27649/-23333 X: 22:02.0 Y: 28kc

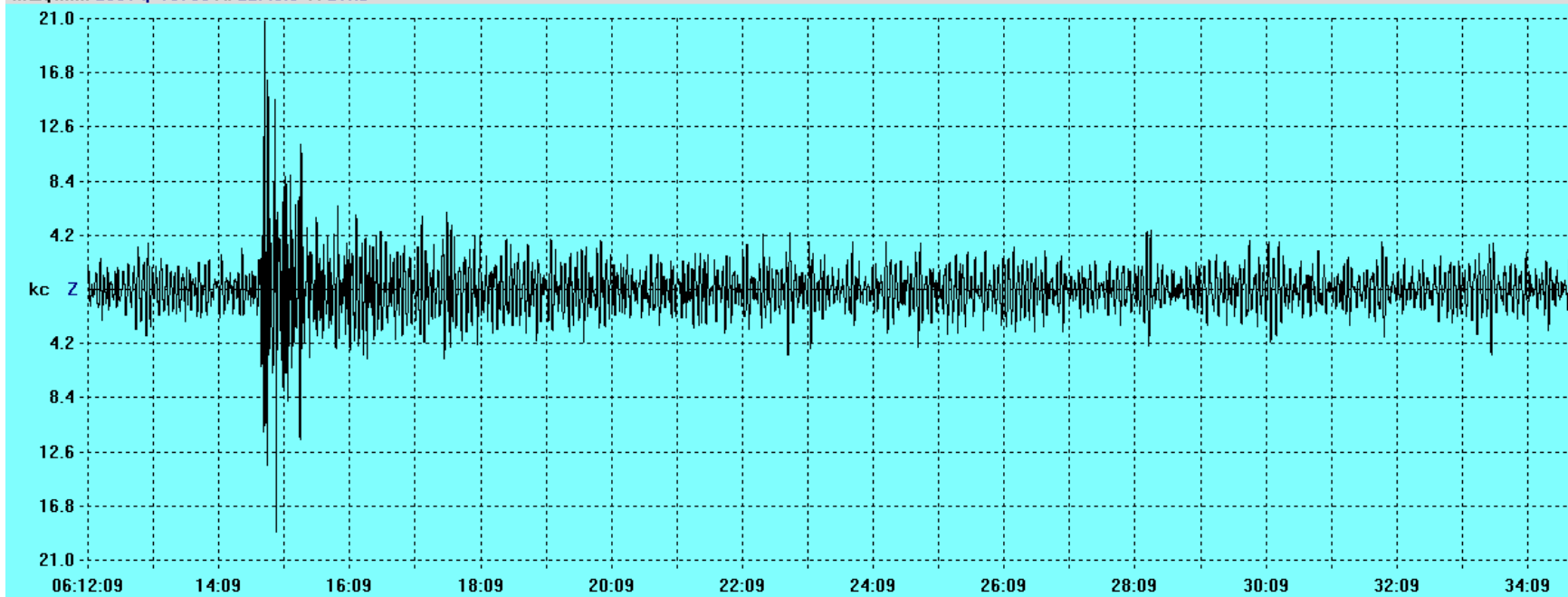


Telessismo: PDE-Q 2012 08 27 053804.42 12.30 -88.61 35 5.5 mbGS

O sismograma a seguir foi filtrado – band-pass:

Start: 8/28/12 5:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 20814/-18788 X: 22:40.0 Y: 21kc

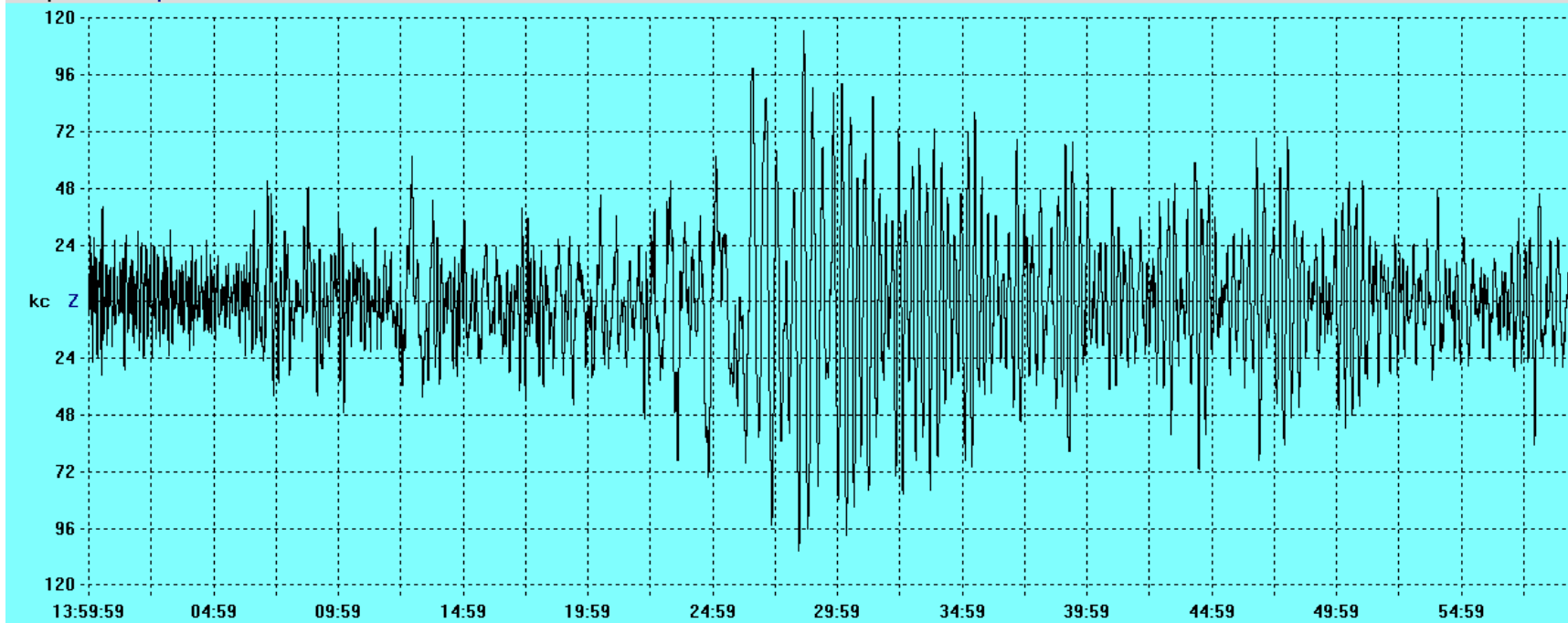


Telessismo: PDE-Q 2012 08 28 060816.61 12.50 -88.65 34 5.5 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 8/30/12 13:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 114452/-105545 X: 1:00:00 Y: 120kc

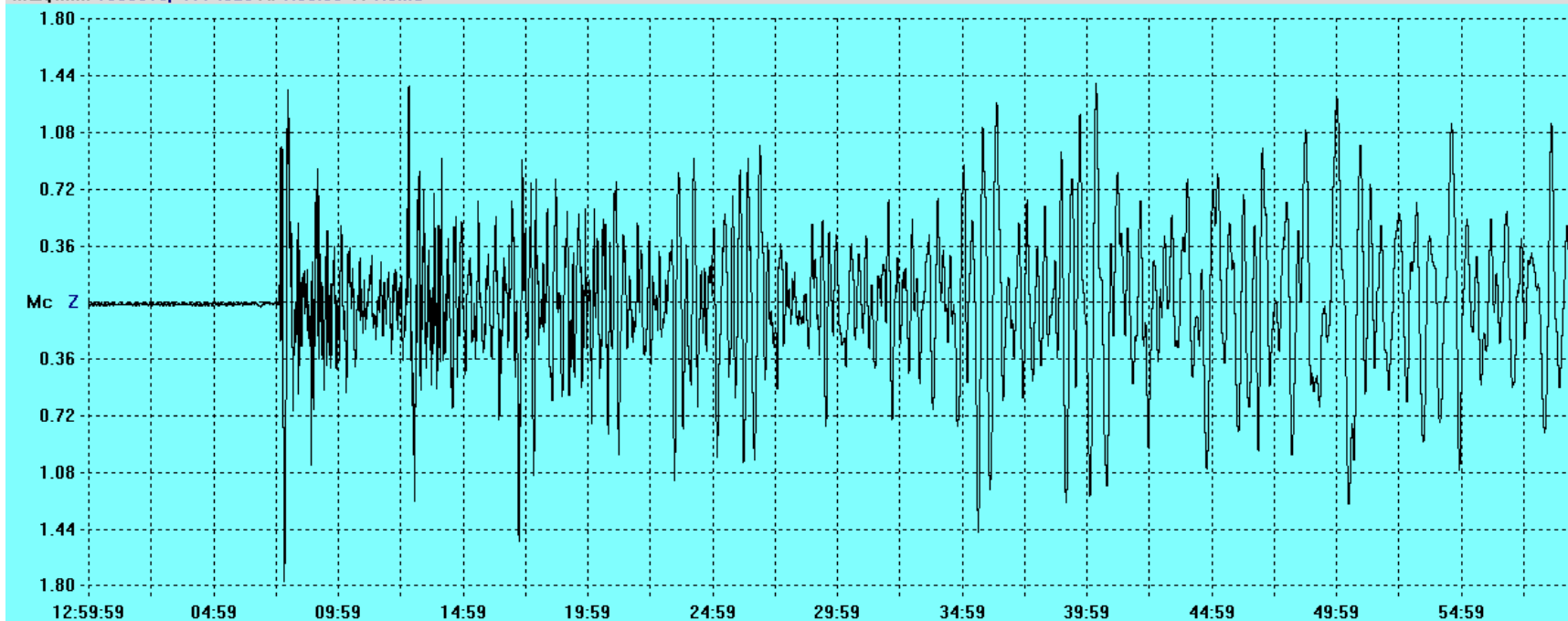


Telessismo: PDE-Q 2012 08 30 134325.14 71.44 -10.58 14 6.8 MwWCMT

O sismograma a seguir não foi filtrado:

Start: 8/31/12 12:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 1386613/-1774023 X: 1:00:00 Y: 1.8Mc

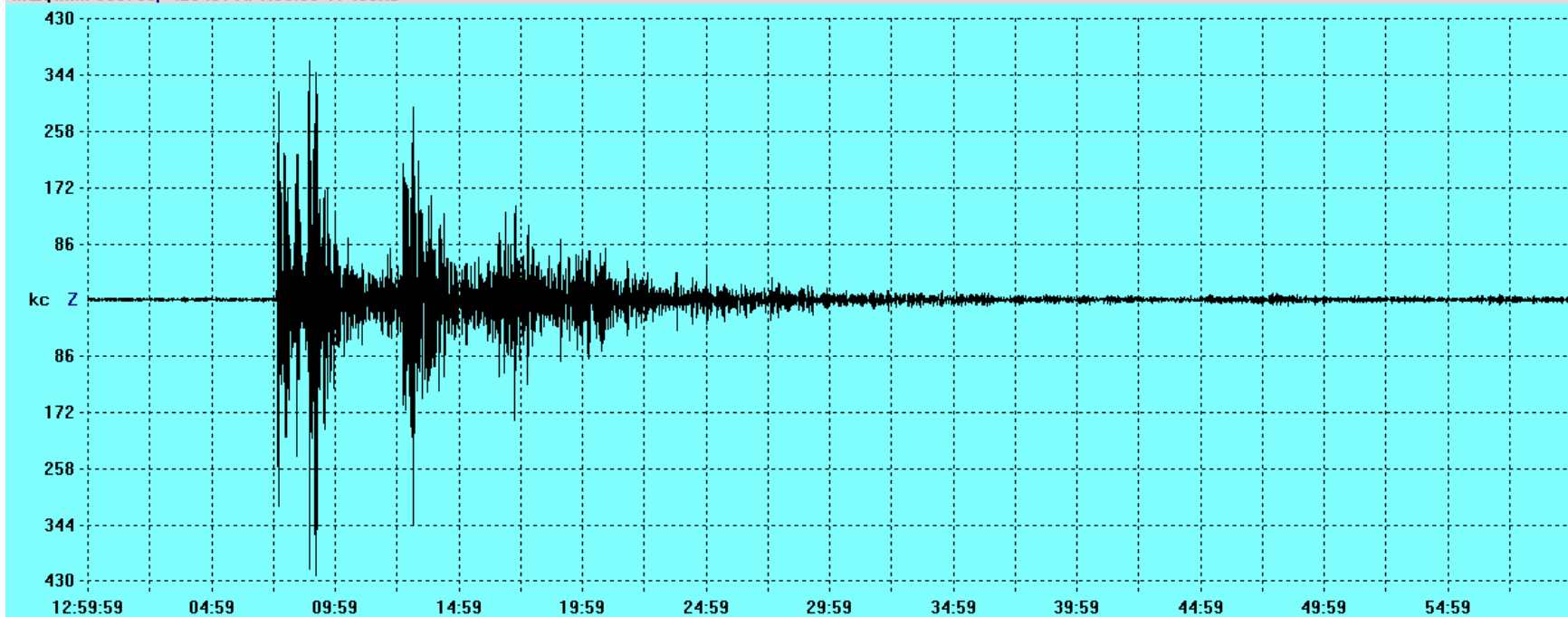


Telessismo: PDE-Q 2012 08 31 124733.36 10.82 126.63 28 7.6 MwWCMT

Versão filtrada (band-pass) do sismograma acima:

Start: 8/31/12 12:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 363768/-420401 X: 1:00:00 Y: 430kc

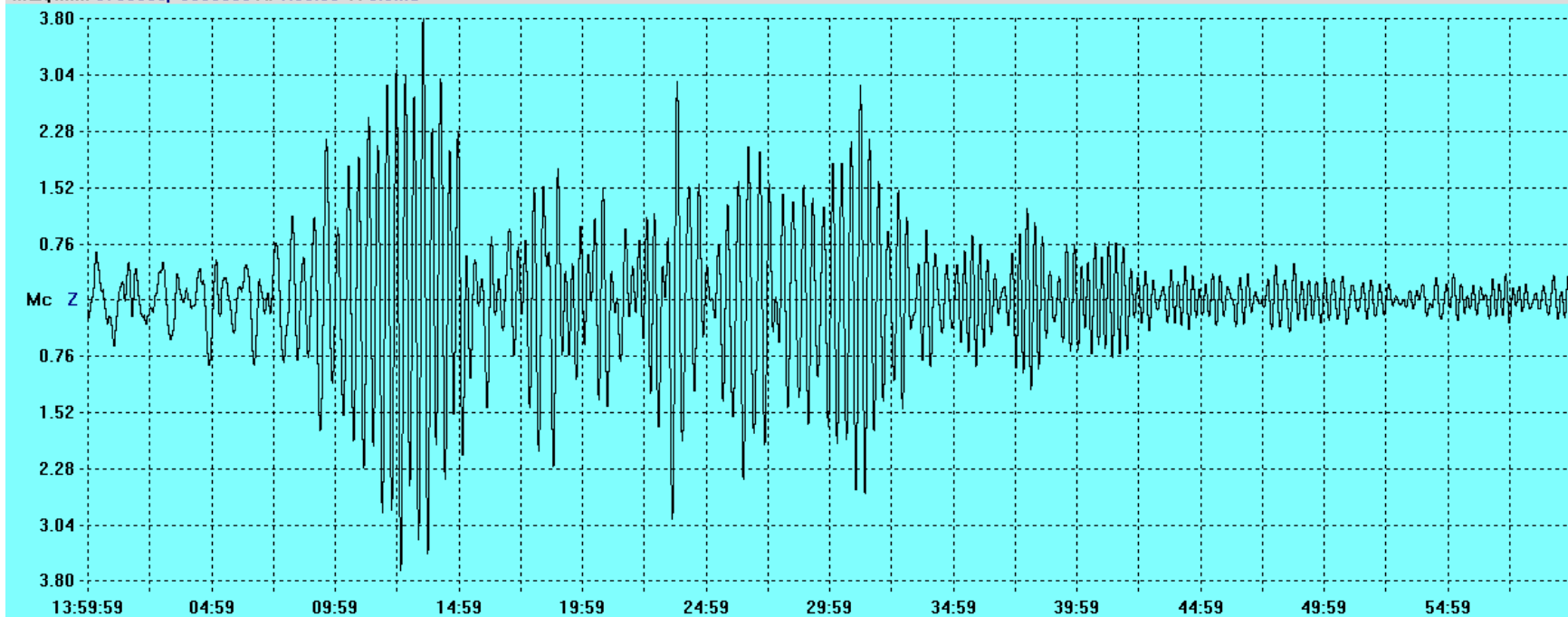


Telessismo: PDE-Q 2012 08 31 124733.36 10.82 126.63 28 7.6 MwWCMT

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

Start: 8/31/12 13:59:59 UTC Station: SAML 8.9489S 63.1831W Samples: 144001 SPS: 39.999999

Max/Min: 3786568/-3655963 X: 1:00:00 Y: 3.8Mc



Telessismo: PDE-Q 2012 08 31 124733.36 10.82 126.63 28 7.6 MwWCMT