

Kirkkonummen kunta
Kirkkonummen seurakuntayhtymä

RAIDELIIKENTEEEN TÄRINÄSELVITYS

Kirkkonummen keskusta, Kirkkolaakson asemakaava-alue
sekä Heikkilän ja Tolsan alue



2.2.2007

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ALAOTSIKKO 1

1. JOHDANTO

Sito-yhtiöt Oy on tehnyt Kirkkonummen seurakuntayhtymän ja Kirkkonummen kaupungin toimeksiannosta Kirkkonummen keskustassa radan varren alueella, rautatieaseman ja Kirkkolaakson asemakaava-alueella sekä Heikkilän ja Tolsan alueilla tärinäselvityksen. Tutkittavat alueet sijaitsevat Helsinki-Turku radan varrella. Työn tavoitteena oli selvittää rautatieliikennetärinän vaikutukset ja arvioida tärinäriskialueet maankäytön suunnittelua varten.

Suurimman tärinän ratojen ympäristössä aiheuttavat yleensä raskaat ja pitkät tavarajunat. Tutkittavalla rataosuudella ei VR:ltä (suullinen tiedonanto Arne Kähkönen) saatujen tietojen mukaan ole tavarajunaliikennettä. Radalla liikennöivät pääasiassa Pendolino,- Intercity2,- pika- ja paikallisjunat. Kaikki junat lukuun ottamatta Pendolinoja (yksi poikkeus) pysähtyvät Kirkkonummella. Junien painot ovat radalla suhteellisen alhaisia, enimmäkseen 500, tonnia ja junien suurin sallittu nopeus on 120 km/h. Liittessä 2 on yhteenvetona laskettu raiteella liikkuva junaliikenne.

Radan läheisyydessä suurin tärinä on yleensä hienorakeisilla maapojilla, kuten lieju-, turve-, savi- ja silttikerrostumissa. Kovissa kivennäismaalajeissa tärinäalue on pienempi. Pienin liikennetärinän vaikutusalue on kovissa karkearakenteisissa kivennäismaalajeissa (sora, hiekka) ja moreenimaalajeissa (silttimoreeni, hiekkamoreeni, soramoreeni) sekä kalliossa. Käytävissä olevien pohjatutkimusten ja muiden tietojen mukaan radan lähialueet tutkittavalla alueella ovat pehmeitä hienorakeisia maa-alueita.

Ihmisen kokeman värähtelyn merkittävin taajuusalue on yleensä pehmeillä savimailla 5-15 Hz ja kovilla soramailla 10-25 Hz. Kirjallisuudesta ja aiemmista Suomessa tehdyistä mittauksista voidaan päätellä, että merkittävimmät värähtely paksuilla savimailla esiintyvät yleensä 4-10 Hz:n taajuusalueella.

Aiemmat tärinätutkimukset osoittavat, että maaperän vaakasuuntaiset värähtelyt ovat useissa tapauksissa suuremmat kuin pystysuuntaiset värähtelyt. Maaperän vaakasuuntaisten värähtelyjen vaikutuksista rakennusten värähtelyihin ei kuitenkaan vielä ole tehty riittävästi selvityksiä. Tästä syystä tämä selvitys keskittyy mittauksien avulla määritetyn maaperän pystyvärähtelyn tutkimiseen. Pystyvärähtelyn tunnusluku määritetään eri etäisyyksillä radasta VTT:n Tiedotteen 2278 (Asko Talja, Suositus liikennetärinän mittaamisesta ja luokituksista, 2004) esitetyn suosituksen mukaisesti.

2. OHJEARVOT

Liikennetärinän värähtelyluokituksen suosituksena käytetään VTT:n Tiedotteen 2278 (Asko Talja, Suositus liikennetärinän mittaamisesta ja luokituksista, 2004) mukaista luokitusta. Värähtelyluokituksessa käytettävä tunnusluku vastaa asuintiloissa esiintyvän värähtelyn tilastollista maksimiarvoa viikon pituisella tarkastelujaksolla. Suositus koskee sekä yö- että päiväaikaa.

Taulukko 1. Suositus rakennusten värähtelyluokituksesta (NS 8176, 1999)

Värähtely- luokka	Kuvaus värähtelyolosuhteista	$V_{W,95}$ (mm/s)
A	Hyvät asuinolosuhteet. <i>Ihmiset eivät yleensä havaitse värähtelyitä.</i>	$\leq 0,10$
B	Suhteellisen hyvät asuinolosuhteet. <i>Ihmiset voivat havaita värähtelyt, mutta ne eivät ole häiritseviä.</i>	$\leq 0,15$
C	Suositus uusien rakennusten ja väylien suunnittelussa. <i>Keskimäärin 15 % asukkaista pitää värähtelyitä häiritsevinä ja voi valittaa häiriöstä.</i>	$\leq 0,30$
D	Olosuhteet, joihin pyritään vanhoilla asuinalueilla. <i>Keskimäärin 25 % asukkaista pitää värähtelyitä häiritsevinä ja voi valittaa häiriöstä.</i>	$\leq 0,60$

Yllä olevaa taulukkoa ei sovelleta rakennuksille, joissa ihmiset ovat pääasiassa liikkeessä tai muut kuin liikenteestä aiheutuvat häiriöt voivat olla merkittävämpiä (esim. toimistot, kaupat, kahvilat, ostokeskukset, tavaratilat, liikuntatilat).

3. TÄRINÄMITTAUKSET

Rautatietärinäselvitys sisältää junaliikenteen tärinämittauksia viideltä mittalinjalta. Mittaukset on suoritettu 29.12.2006 välisenä 16.1.2007 aikana. Mittaukset suoritti Siton alikonsulttina Kalliotekniikka Consulting Engineers Oy. Sitolta tärinäselvityksen vastuuhenkilönä toimi insinööri Anne Määtä.

Tärinästä mitattiin heilahdusnopeudet (mm/s) ja taajuudet (Hz) Instatelin MiniMate Plus mittarilla kolmessa toisiaan kohtisuorassa suunnassa jokaiselle komponentille, pysty- (vert), pitkittäis- (long) ja poikittaissuunnassa (trans). Pitkittäissuunta (long) on radan suuntainen ja poikittaissuunta (tran) kohtisuoraan rataa vasten. Mittausanturit sijoitettiin viiteen mittalinjaan. Liitteessä 1 on esitetty mittalinjojen sekä -pisteiden sijainti. Kullekin mittauslinjalle sijoitettiin 3-5 anturia, joiden etäisyydet raiteesta olivat 10-80 metriä. Anturit kiinnitettiin maapiikkien avulla pintamaahan ja päälle asetettiin hiekkasäkki. Muutamassa mittauspisteessä anturi kiinnitettiin talon tai alikulkutunnelin sokkeliin.

Kuva 1 Kuvassa maahan maapiikillä sijoitettu mittausanturi



Linjamittauksilla selvitettiin tärinän leviämistä ja vaimenemista etäisyyden mukana. Mittaukset oli suunniteltu käynnistyviksi tärinän ylitettyä kynnyksarvon 0,15 tai 0,2 mm/s linjasta riippuen.

3.1 Pohjaolosuhteet

Kirkkonummen rautatieaseman ja Kirkkolaakson asemakaava-alueella on tehty kairauksia. Kairaustietojen perusteella voidaan sanoa että kyseisillä alueilla savikerroksen paksuus on vähintään 10 metriä. Hienorakeisen savikerroksen ohentuessa alkaa hiekkakerros.

Heikkilän tai Tolsan alueelta ei ole kairaustietoja saatavilla. Käytävissä olevien pohjatietojen sekä Geologian tutkimuskeskuksen maaperäkartan mukaan alueiden on päätelty olevan pääosin savikkoa.

3.2 Mittauspisteet

Linja 1

Mittaus suoritettiin 4.1.2007 - 10.1.2007. 3 kpl mittareita juna-aseman alikulkutunnelin länsiseinällä, joista ensimmäinen MP5 oli sijoitettu 10 m radasta, toinen MP6 20 m radasta ja kolmas MP7 40 m radasta. Neljäs mittauspiste sijaitsi Lidl -ruokakaupan väestönsuojan seinässä.

Linja 2

Mittaus suoritettiin 29.12.2006 – 4.1.2007. 4 kpl mittareita kynnyksellä pellolla, joista ensimmäinen MP5 oli sijoitettu 10 m radasta, toinen MP6 20 m radasta, kolmas MP7 30 m radasta ja neljäs MP8 50 m radasta. Mittauslinja on otettu kohtisuoraan radan sähkötolpasta, jonka tolppaluku on 37-4.

Linja 3

Mittaus suoritettiin 29.12.2006 – 4.1.2007. 4kpl mittareita, joista ensimmäinen MP1 oli sijoitettu kovalle maalle (pintakerros sepeliä) 10 m radasta, toinen MP2 jätevesipumppaamon sokkelissa 21 m radasta, kolmas MP3 jätevesipumppaamon kaivorakenteissa 30 m radasta ja neljäs MP4 pehmeässä maassa 40m radasta. Mittauslinja on otettu jätevesipumppaamon länsiseinästä.

Linja 4

Mittaus suoritettiin 10.1.2007 – 16.1.2007. 4 kpl mittareita oli sijoitettu risuksoon, noin 10 m radan alapuolelle. Ensimmäinen MP1 oli 10 m, toinen MP2 20 m, kolmas MP3 30 m ja neljäs MP4 40 m etäisyydellä radasta.

Linja 5

Mittaus suoritettiin 5.1.2007 – 10.1.2007. 5 kpl mittareita sijoitettiin kesannolla olevalla pellolle. Ensimmäinen MP1 10 m, toinen 20 m, kolmas 30 m ja neljäs 40 m etäisyydellä radasta. MP5 sijaitsi talon sokkelissa 80 m radasta. Mittauslinja oli otettu ratatolpasta 35-29.

3.3 Mittaustulokset

Värähtelyn tunnusluku $v_{w,95}$ määritettiin mittaustuloksista seuraavasti:

- mitatuista värähtelysignaaleista valitaan 15 merkittävintä mittaustulosta (pystyvärähtelyä)
- kustakin signaalista määritetään suurin painotettu tehollisarvo $v_{w,j}$
- painotetuista tehollisarvoista lasketaan keskiarvo ja keskihajonta, jonka jälkeen lasketaan värähtelyn tunnusluku $v_{w,95}$.

Värähtelyn tunnusluvun laskenta perustuu Asko Taljan kirjoittamaan VTT:n tiedotteeseen 2278 "Suositus liikennetärinän mittaamisesta ja luokituksesta" Espoo 2004.

Mittaustulokset ja niiden käsittely on esitetty alla olevissa kuvissa.

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3.3.1 Mittauslinja 1

Liikennetärinämittaus, 4-10.1.2007

Mittalinja 1, MP5, 10 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
4jan	15:30	vert	0,32	32
4jan	17:30	vert	0,32	37
5jan	9:30	vert	0,33	37
5jan	10:30	vert	0,33	39
5jan	15:30	vert	0,30	47
5jan	17:30	vert	0,31	37
5jan	18:30	vert	0,34	39
5jan	20:30	vert	0,32	43
7jan	12:30	vert	0,32	43
7jan	16:30	vert	0,30	32
8jan	15:30	vert	0,29	34
8jan	22:30	vert	0,32	39
9jan	7:51	vert	0,30	39
9jan	8:10	vert	0,32	43
9jan	9:30	vert	0,32	47

taajuuspainotettu (5,6Hz)

Keskiarvo	0,32
Keskihajonta	0,014
Värähtelyn tunnusluku	0,34
Värähtelyluokka	D

Liikennetärinämittaus, 4-10.1.2007

Mittalinja 1, MP6, 20 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
4jan	12:30	vert	0,13	30
4jan	15:30	vert	0,17	37
4jan	16:59	vert	0,16	37
4jan	17:30	vert	0,17	37
5jan	8:10	vert	0,14	27
5jan	18:30	vert	0,16	34
5jan	19:30	vert	0,16	32
5jan	20:30	vert	0,14	34
7jan	12:30	vert	0,14	37
7jan	16:30	vert	0,14	34
8jan	9:30	vert	0,14	34
8jan	22:30	vert	0,15	34
9jan	8:10	vert	0,15	32
9jan	9:30	vert	0,15	34
9jan	13:30	vert	0,15	32

taajuuspainotettu (5,6Hz)

Keskiarvo	0,15
Keskihajonta	0,012
Värähtelyn tunnusluku	0,17
Värähtelyluokka	C

MP7 alikulkutunnelin länsiseinällä 40 metriä radasta olleeseen mittauspisteeseen ei tallentanut liikennetärinistä johtuvia signaaleja. Mittari oli sijoitettu alikulkutunnelin suulle ja mittari lienee saaneen ohikulkijoilta ylimääräistä huomiota. Lisäksi mittausjakson aikana tunnelin itäseinää kaivettiin kaivinkoneella auki.

MP8, Lidl kaupan väestösuojaan seinässä olleeseen mittauspisteeseen, ei tullut varsinaisia liikennetärinätuloksia. Mittarissa oli satunnaisia signaaleja, jotka johtuivat todennäköisesti ihmisten liikkeistä.

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3.3.2 Mittauslinja 2

Liikennetärinämittaus, 29.12.2006-4.1.2007

Mittalinja 2, MP5, 10 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
30dec	14:33	vert	0,21	37
31dec	20:45	vert	0,23	8,7
31dec	22:45	vert	0,23	15
1jan	2:32	vert	0,23	14
1jan	4:57	vert	0,21	12
1jan	14:34	vert	0,28	7,4
1jan	17:38	vert	0,22	34
1jan	21:20	vert	0,28	37
1jan	22:46	vert	0,23	32
2jan	6:44	vert	0,22	8,7
2jan	14:34	vert	0,27	32
3jan	14:34	vert	0,23	30
3jan	16:10	vert	0,22	16
3jan	20:44	vert	0,21	13
4jan	1:31	vert	0,21	13

taajuuspainotettu (5,6Hz)

Keskiarvo	0,23
Keskihajonta	0,025
Värähtelyn tunnusluku	0,28
Värähtelyluokka	C

Liikennetärinämittaus, 29.12.2006-4.1.2007

Mittalinja 2, MP6, 20 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
29dec	14:18	vert	0,21	32
29dec	17:55	vert	0,20	9
29ja	22:45	vert	0,20	7
30dec	3:57	vert	0,21	6,4
31dec	20:45	vert	0,23	5,4
31dec	22:45	vert	0,20	7
1jan	1:33	vert	0,23	7,3
1jan	2:32	vert	0,21	7,6
1jan	3:58	vert	0,20	9,1
1jan	4:57	vert	0,20	9,5
1jan	14:45	vert	0,20	6,3
2jan	6:44	vert	0,25	9,3
2jan	9:46	vert	0,20	7,5
3jan	8:33	vert	0,20	6
4jan	2:31	vert	0,21	6,4

taajuuspainotettu (5,6Hz)

Keskiarvo	0,21
Keskihajonta	0,015
Värähtelyn tunnusluku	0,24
Värähtelyluokka	C

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Liikennetärinämittaus, 29.12.2006-4.1.2007

Mittalinja 2, MP7, 30 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
29dec	17:55	vert	0,15	7,2
31dec	3:56	vert	0,12	6,2
31dec	8:56	vert	0,12	14
31dec	14:45	vert	0,12	7
31dec	20:45	vert	0,15	6,9
31dec	22:45	vert	0,14	7
1jan	1:33	vert	0,14	6,7
1jan	2:32	vert	0,14	9,3
1jan	4:57	vert	0,14	6,6
1jan	14:45	vert	0,14	6,6
1jan	22:46	vert	0,11	8
2jan	9:46	vert	0,13	6,8
2jan	15:50	vert	0,15	5,9
3jan	8:33	vert	0,13	6,1
3jan	16:01	vert	0,11	6,7

taajuuspainotettu (5,6Hz)

Keskiarvo	0,13
Keskihajonta	0,014
Värähtelyn tunnusluku	0,16
Värähtelyluokka	C

Liikennetärinämittaus, 29.12.2006-4.1.2007

Mittalinja 2, MP8, 50 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
29dec	17:03	vert	0,07	7,8
29dec	17:55	vert	0,07	5,7
31dec	20:45	vert	0,07	5,1
31dec	22:45	vert	0,07	5,2
1jan	2:32	vert	0,07	7,8
1jan	14:34	vert	0,07	5,3
1jan	14:45	vert	0,07	7
2jan	5:56	vert	0,08	6,8
2jan	6:44	vert	0,10	7,5
2jan	15:50	vert	0,08	7
3jan	7:13	vert	0,07	7,3
3jan	8:33	vert	0,08	7,1
3jan	14:34	vert	0,06	6,6
3jan	18:46	vert	0,07	6,6
4jan	5:46	vert	0,06	7,1

taajuuspainotettu (5,6Hz)

Keskiarvo	0,07
Keskihajonta	0,010
Värähtelyn tunnusluku	0,09
Värähtelyluokka	A

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3.3.3 Mittauslinja 3

Liikennetärinämittaus, 29.12.2006-4.1.2007

Mittalinja 3, MP1, 10 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
31dec	20:44	vert	0,33	11
31dec	22:45	vert	0,34	11
1jan	2:32	vert	0,38	10
1jan	4:57	vert	0,38	10
1jan	14:34	vert	0,39	9
2jan	6:44	vert	0,33	10
2jan	9:40	vert	0,34	9
2jan	10:49	vert	0,35	8,8
2jan	11:44	vert	0,35	9,8
2jan	14:34	vert	0,33	7,6
2jan	18:45	vert	0,32	9,1
2jan	21:49	vert	0,35	11
2jan	23:50	vert	0,35	11
3jan	7:19	vert	0,32	7,1
3jan	8:32	vert	0,32	8,8

taajuuspainotettu (5,6Hz)

Keskiarvo	0,35
Keskihajonta	0,023
Värähtelyn tunnusluku	0,39
Värähtelyluokka	D

MP2, 21 m radasta, jätevesipumppaamon sokkeliin kiinnitetty mittauspiste ei tallentanut junaliikenteestä johtuvaa tärinää. Asennuspaikasta johtuen tämä mittari ei toiminut kunnolla. Syynä tähän olivat sähköiset häiriöt sekä itse pumppaamolta tulleet mekaaniset häiriöt.

Liikennetärinämittaus, 29.12.2006-4.1.2007

Mittalinja 3, MP3, 30 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
31dec	11:32	vert	0,02	13
1jan	4:57	vert	0,02	11
1jan	14:34	vert	0,03	9,8
1jan	16:36	vert	0,02	12
1jan	20:18	vert	0,02	20
1jan	23:35	vert	0,02	10
1jan	7:15	vert	0,02	24
2jan	8:35	vert	0,02	16
2jan	11:32	vert	0,02	12
2jan	12:32	vert	0,02	17
2jan	15:50	vert	0,02	14
2jan	22:33	vert	0,02	11
3jan	6:45	vert	0,02	13
3jan	7:13	vert	0,02	12
3jan	9:33	vert	0,02	12

taajuuspainotettu (5,6Hz)

Keskiarvo	0,02
Keskihajonta	0,003
Värähtelyn tunnusluku	0,03
Värähtelyluokka	A

MP4 pehmeässä maassa, 40 m etäisyydellä radasta sijainneen mittauspisteen suurin painotettu tehollisarvo $v_{w,j}$ oli noin 0,01 mm/s. Tämä tarkoittaa myös värähtelyn tunnuslukuna 0,01 mm/s.

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3.3.4 Mittauslinja 4

Mittauslinjalle 4 ei yhteenkään mittariin tullut varsinaisia liikennetärinätlöksiä. Mittauskynnys koko linjalla oli 0,15 mm/s mikä on alin mahdollinen mittausraja käytössä olleelle mittarille. Ainoat signaalit, jotka näkyvät, ovat johtuneet mittareiden asennuksen yhteydessä ja mittareiden hakemisen yhteydessä aiheutuneesta liikkeestä.

3.3.5 Mittauslinja 5

Liikennetärinämittaus, 5-10.1.2007

Mittalinja 5, MP1, 10 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
6jan	12:32	vert	0,21	24
6jan	18:34	vert	0,32	28
6jan	22:29	vert	0,22	30
6jan	23:31	vert	0,18	32
7jan	9:32	vert	0,16	27
7jan	11:31	vert	0,17	37
7jan	14:33	vert	0,17	32
7jan	17:42	vert	0,27	20
8jan	8:24	vert	0,19	17
8jan	15:31	vert	0,17	27
8jan	17:52	vert	0,28	34
9jan	18:01	vert	0,30	16
9jan	21:49	vert	0,21	17
10jan	6:14	vert	0,30	22
10jan	10:28	vert	0,19	28

taajuuspainotettu (5,6Hz)

Keskiarvo	0,22
Keskihajonta	0,056
Värähtelyn tunnusluku	0,32
Värähtelyluokka	D

Liikennetärinämittaus, 5-10.1.2007

Mittalinja 5, MP2, 20 m radasta

PVM	AIKA	SUUNTA	f painot. RMS	freg
5jan	14:33	vert	0,10	28
5jan	18:29	vert	0,09	20
5jan	20:34	vert	0,10	30
6jan	6:15	vert	0,08	30
6jan	9:02	vert	0,06	30
6jan	9:31	vert	0,08	30
6jan	10:35	vert	0,08	14
6jan	12:30	vert	0,08	30
6jan	18:33	vert	0,11	28
7jan	17:42	vert	0,12	21
7jan	21:28	vert	0,10	19
8jan	17:52	vert	0,10	21
9jan	14:33	vert	0,10	18
10jan	5:39	vert	0,08	17
10jan	6:14	vert	0,10	24

taajuuspainotettu (5,6Hz)

Keskiarvo	0,09
Keskihajonta	0,015
Värähtelyn tunnusluku	0,12
Värähtelyluokka	B

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Liikennetärinämittaus, 5-10.1.2007

Mittalinja 5, MP3, 30 m radasta

PVM	AIKA	SUUNTA	f	painot. RMS	freg
5jan	14:34	vert		0,05	22
5jan	18:30	vert		0,06	21
5jan	20:34	vert		0,05	28
5jan	22:39	vert		0,06	19
9jan	17:00	vert		0,05	18
9jan	18:01	vert		0,06	14
9jan	18:17	vert		0,05	17
9jan	18:28	vert		0,05	19
9jan	18:45	vert		0,05	20
9jan	20:31	vert		0,04	39
9jan	5:39	vert		0,05	17
10jan	6:44	vert		0,04	17
10jan	7:12	vert		0,05	17
10jan	8:22	vert		0,05	18
10jan	10:28	vert		0,04	26

taajuuspainotettu (5,6Hz)

Keskiarvo	0,05
Keskihajonta	0,007
Värähtelyn tunnusluku	0,06
Värähtelyluokka	A

Liikennetärinämittaus, 5-10.1.2007

Mittalinja 5, MP4, 40 m radasta

PVM	AIKA	SUUNTA	f	painot. RMS	freg
5jan	16:33	vert		0,04	21
5jan	18:29	vert		0,07	28
5jan	20:34	vert		0,05	28
5jan	23:31	vert		0,03	23
6jan	0:32	vert		0,05	18
6jan	10:35	vert		0,03	26
6jan	11:31	vert		0,04	27
6jan	12:16	vert		0,05	18
6jan	12:30	vert		0,05	30
6jan	18:34	vert		0,06	22
6jan	22:49	vert		0,06	27
7jan	17:42	vert		0,06	26
8jan	17:52	vert		0,05	26
8jan	21:27	vert		0,05	23
10jan	10:28	vert		0,07	27

taajuuspainotettu (5,6Hz)

Keskiarvo	0,05
Keskihajonta	0,012
Värähtelyn tunnusluku	0,07
Värähtelyluokka	A

MP5 oli kiinnitetty talon sokkeliin. Mittariin tulleet signaalit eivät olleet liikennetärinästä aiheutuneita. Mittarin lukemat satunnaiset signaalit johtuivat todennäköisesti talon asukkaiden liikkeistä.

4. TULOSTEN TARKASTELUA

Kaikista viikon aikana mitatuista värähtelyistä määritettiin värähtelyn tunnusluku VTT:n suosituksen mukaan. Kun arvioidaan suunnitteilla olevien asuntojen värähtelyä, lähtökohtana on yleensä maaperän pystysuuntainen värähtely.

VTT:n Tiedotteen mukaan uusille alueille suositellaan värähtelyluokkaa C, jolloin asunnossa värähtelyn tunnusluvun tulee olla alle 0,3 mm/s.

Tässä raportissa esitetyt mittaustulokset on mitattu maaperästä, ei rakennuksista. Jos tutkittavalle alueelle aiotaan rakentaa asuinrakennuksia, tulee maaperästä rakennukseen siirtyvää tärinää arvioida tarkemmin.

Maaperän pysty- ja vaakavärähtelyjen siirtyminen rakennukseen riippuu rakennuksen dynaamisten ominaisuuksien lisäksi maaperän värähtelyn taajuusjakautumasta, pinta-aallon pituudesta sekä perustusten ja maaperän vuorovaikutuksesta. Rakennuksen värähtelyistä merkittävimmät ovat rungon vaakasuuntaiset värähtelyt ja lattian pystysuuntaiset värähtelyt. Eriytyisen merkittäviä ovat ne maaperän värähtelykomponentit, jotka ovat lähellä rungon tai lattian ominaistajuuksia, sillä resonanssi-ilmiö voi kasvattaa ominaistajuutta lähellä olevien värähtelykomponenttien suuruuden merkittävästi.

Kirjallisuudesta löytyneiden tulosten perusteella voidaan suunnittelun perusteena rakennuksiin siirtyvästä tärinästä suuntaa-antavasti arvioida seuraavaa:

- yksikerroksisilla rakennuksilla vaakavärähtelyä ei tarvitse huomioida
- kaksikerroksisten rakennusten vaakavärähtelyssä on suositeltu varautumista kaksinkertaiseen värähtelyn tunnuslukuun
- ala- ja välipohjien pystysuuntaisessa värähtelyssä suositellaan varautumista kaksinkertaiseen värähtelyn tunnuslukuun

Poikkeuksena edellä mainitusta ovat paaluille perustettujen 1-2-kerroksisten talojen ala- ja välipohjat sekä maanvaraiset lattiat, joilla riittää varautuminen maaperän värähtelyn suuruiseen tunnuslukuun.

Matalien kerrostalojen lattian sekä rungon käyttäytymisestä ei ole riittävästi aiempia tutkimustuloksia. Vaikka kirjallisuudessa esittävien arvioiden mukaan kerrostalojen vaakavärähtelylle riittää varautuminen maaperän pystyvärähtelyiden suuruiseen värähtelyyn, tulee tärinähaitan pienentämiseksi mahdollisesti ilmenevä vaakavärähtely ottaa huomioon.

Mikäli Kirkkonummen alueella Helsinki-Turku radalla liikennöivien junien painot kasvavat, esimerkiksi tavaraliikenteen myötä, on mahdollista että liikenteestä aiheutuva tärinä tulee lisääntymään ja tällöin tutkittavien alueiden tärinäluokat saattavat muuttua (esimerkiksi C:stä D luokaksi).

**4.1 Mittauslinja 1, Kirkkonummen rautatieaseman alikul-
kutunneli**

Mittauslinjalta 1 mitatut ja värähtelyn tunnusluvuksi muutetut tulokset on koottu alla olevaan taulukoon 2.

Taulukko 2 Mittauslinjan 1 tulokset

Mittauspiste /etäisyys radasta	Värähtelyn tunnusluku $v_{w,95}$ (mm/s)	Taajuusalueella (Hz)	Värähtelyluokka
MP5/ 10m	0,34	32-47	D
MP6/ 20m	0,17	27-37	C
MP7*	-	-	-
MP8*	-	-	-

* Mittauspisteistä 7 ja 8 (MP7, MP8) ei mittaussignaalien puuttumisen johdosta voida suorittaa tulosten tarkastelua.

Mittaustuloksien perusteella voidaan sanoa, että rautatieasemaa vastapäätä sijaitsevalla selvitysalueella suositusten mukainen värinäluokka C ylittyy noin 15 metrin etäisyydelle radasta.

Mikäli kyseiselle alueelle aiotaan rakentaa esimerkiksi kaksikerroksisia rakennuksia, on varauduttava kaksinkertaiseen värähtelyn tunnuslukuun. Tällöin olisi suositeltavaa rakentaa vähintään noin 25 metrin etäisyydelle radasta. Tärinähaitan pienentämiseksi voidaan tätä suositusta käyttää selvitysalueella kaikille suunniteltaville rakennuksille.

4.2 Mittauslinja 2, Kirkkolaakson asemakaava-alue

Mittauslinjalta 2 mitatut ja värähtelyn tunnusluvuksi muutetut tulokset on koottu alla olevaan taulukoon 3.

Taulukko 3 Mittauslinjan 2 tulokset

Mittauspiste /etäisyys radasta	Värähtelyn tunnusluku $v_{w,95}$ (mm/s)	Taajuusalueella (Hz)	Värähtelyluokka
MP5/ 10m	0,28	9-34	C
MP6/ 20m	0,24	5-10	C
MP7/30m	0,16	6-14	C
MP8/50m	0,09	5-8	A

Mittaustuloksien perusteella voidaan sanoa että Kirkkolaakson asemakaava-alueella suositusten mukainen värinäluokka C ei ylitä mitatuissa pisteissä.

Tuloksia tulkittaessa tulee kuitenkin huomioida että pystyvärtely mittauspisteissä etäisyydellä 10 m ja 20 m radasta ei puolitu etäisyyden kaksinkertaistuksessa. Mittauspisteen 5 (10 m radasta) tuloksiin vaikuttaa todennäköisesti kovempi, radan läheisyydessä vallitseva maaperä. Tulosten analysointiin voidaan luotettavammin käyttää tuloksia pisteistä MP6, MP7 ja MP8.

Alueelle on suunniteltu liikerakennus (automarket) sekä asuintaloja (pienkerrostaloja). Liikerakennus rakennetaan noin 30 metrin ja asuinrakennukset noin 80 metrin etäisyydelle radasta.

Liikehuoneistolle ei sovelleta värähtelylle annettuja ohjearvoja, joten rakentaminen 30 metrin etäisyydelle radasta on hyväksyttävää.

Alueelle suunnitellut rakennukset ovat 6-kerroksisia asuintaloja. Kuten jo aiemmin mainittu ei kerrostalojen rungon ja lattian käyttäytymisestä ole riittävästi aiempia tutkimustuloksia. Mahdollisen tärinähaitan estämiseksi voidaan värähtelyn siirtymistä rakennukseen selvittää rakennuksen ja herätteen (juna) ominaistajuuksien suhteella. Selvityskohteessa maaperän värähtelyn taajuudet eivät satu lähelle rakenteen ominaistajuutta, joten todennäköisesti ei synny resonanssia.

Selvitysalueelle rakennettavilla rakennuksilla suositellaan vähintään 30 m etäisyyttä radasta (kaksinkertainen värähtelyn tunnusluku).

Suunnitteilla olevilla pienkerrostaloilla, jotka rakennetaan 80 metrin päähän radasta, ei ole tärinästä johtuvaa vaurioitumisriskiä.

4.3 Mittauslinja 3

Mittauslinjalta 3 mitatut ja värähtelyn tunnusluvuksi muutetut tulokset on koottu alla olevaan taulukoon 4.

Taulukko 4 Mittauslinjan 3 tulokset

Mittauspiste /etäisyys radasta	Värähtelyn tunnusluku $v_{w,95}$ (mm/s)	Taajuusalueella (Hz)	Värähtelyluokka
MP1/ 10m	0,39	7-11	D
MP2*	-	-	-
MP3/ 30m	0,03	10-24	A
MP4*	-	-	-

* Mittauspisteistä 2 ja 3 (MP2, MP3) ei mittaussignaalien puuttumisen johdosta voida suorittaa tulostentarkastelua.

Mittaustuloksista ei voida suoraan lukea millä etäisyydellä värinäluokkaan C tai sitä pienempiin arvoihin päästään. Voidaan kuitenkin arvioida että pystyvärtely puolittuu etäisyyden kaksinkertaistuksessa. Näin ollen suosi-

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50576

5.2.2007

15 (15)

tusten mukaiseen luokkaan C päästään todennäköisesti jo etäisyydellä 15 metriä radasta.

Mikäli alueelle aiotaan rakentaa, on rakenteisiin siirtyvää värähtelyä arvioitava tarkemmin.

Etäisyys, jonka päähän radasta voidaan turvallisesti rakentaa, on siis riippuvainen alueelle suunniteltujen rakennusten koosta ja perustamistavasta. Selvitysalueelle rakennettavilla rakennuksille suositellaan vähintään 30 m etäisyyttä radasta (kaksinkertainen värähtelyn tunnusluku).

4.4 Mittauslinja 4

Mittauslinjalle 4 ei tallentunut raideliikenteestä aiheutunutta tärinää. Tämä mittauslinja oli sijoitettu radan kaarteeseen sisäpuolelle ja hiukan radan yläpuolella. Radan ulkokaarre viistää arviolta noin 10 m alaspäin, joka todennäköisesti purkaa tärinän radan ulkokaarteeseen ja johtaa näin olleen sisäkaarteeseen olemattomiin värähtelyihin.

4.5 Mittauslinja 5

Mittauslinjalta 5 mitatut ja värähtelyn tunnusluvuksi muutetut tulokset on koottu alla olevaan taulukoon 5.

Taulukko 5 Mittauslinjan 5 tulokset

Mittauspiste /etäisyys radasta	Värähtelyn tunnusluku $v_{w,95}$ (mm/s)	Taajuusalueella (Hz)	Värähtelyluokka
MP1/ 10m	0,32	16-34	D
MP2/ 20m	0,12	14-30	B
MP3/30m	0,06	14-28	A
MP8/40m	0,07	18-28	A

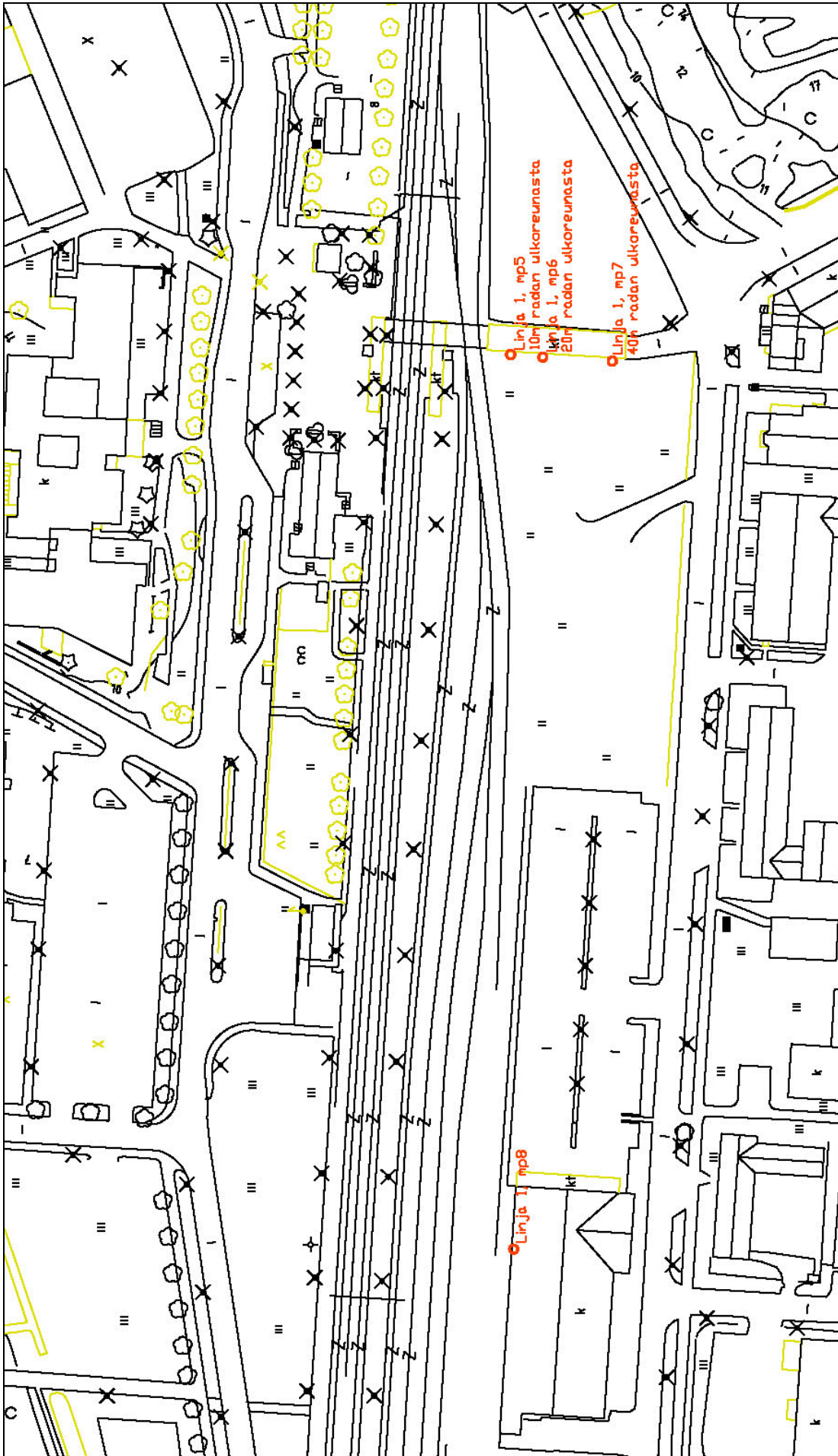
Mittaustuloksien perusteella suositusten mukainen värinäluokka C ylittyy noin 10 metrin etäisyydellä radasta. Tuloksista ei voida suoraan lukea millä etäisyydellä luokkaan C päästään. Voidaan kuitenkin olettaa että pystyvärähtely puolittuu etäisyyden kaksinkertaistuesssa, joten 0,30 mm/s (luokka C) alempiin pystyvärähtelyihin päästään jo noin 12 metrin etäisyydellä radasta.

Mikäli alueelle aiotaan rakentaa, on rakenteisiin siirtyvää värähtelyä arvioitava tarkemmin. Vaikka etäisyys, jonka päähän radasta voidaan turvallisesti rakentaa, on riippuvainen alueelle suunniteltujen rakennusten koosta ja perustamistavasta, suositellaan rakentamisen vähimmäisetäisyydeksi vähintään 25 metriä radasta.

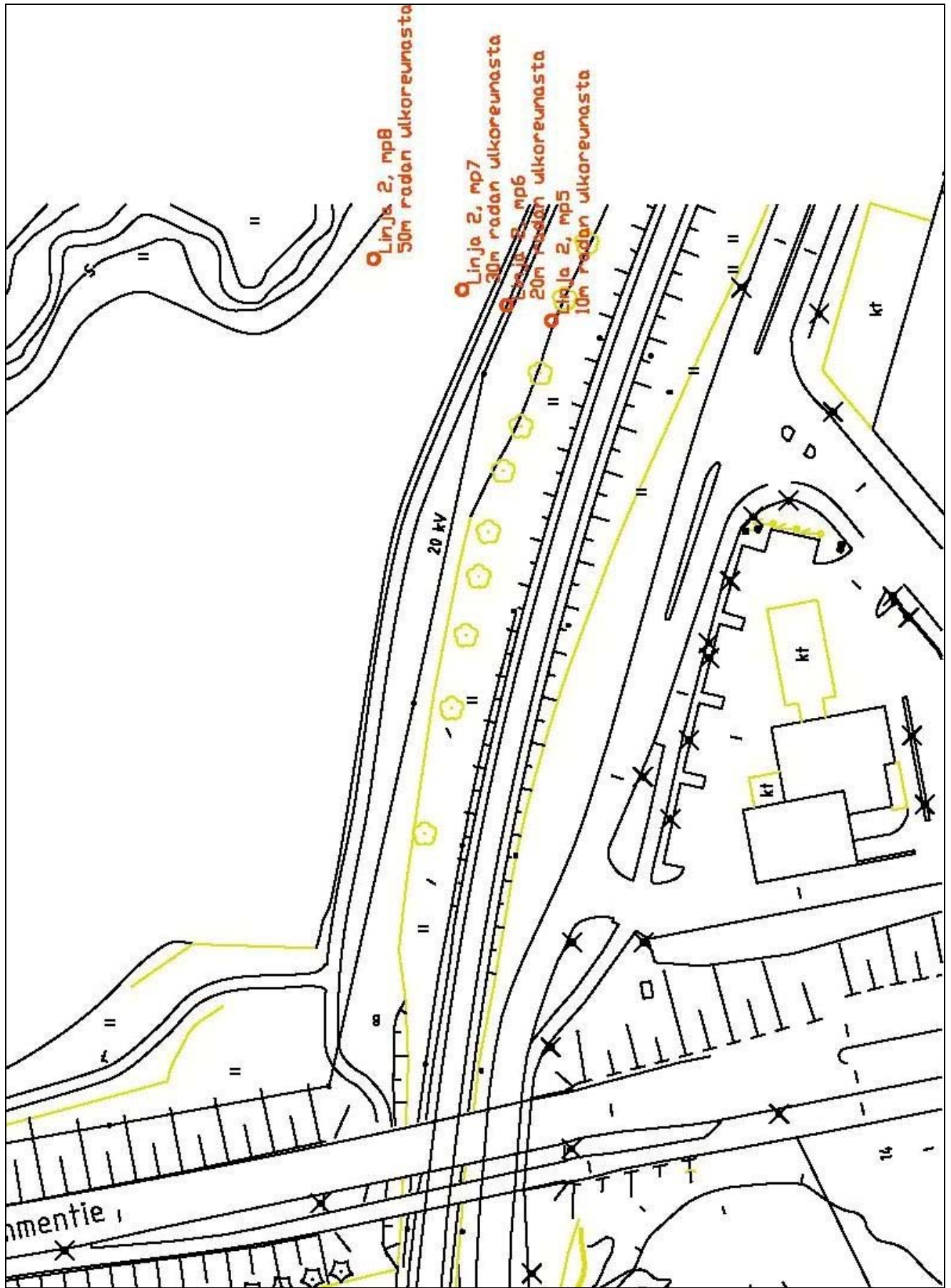
LIITE 1

MITTAUSPISTEET LINJOITTAIN

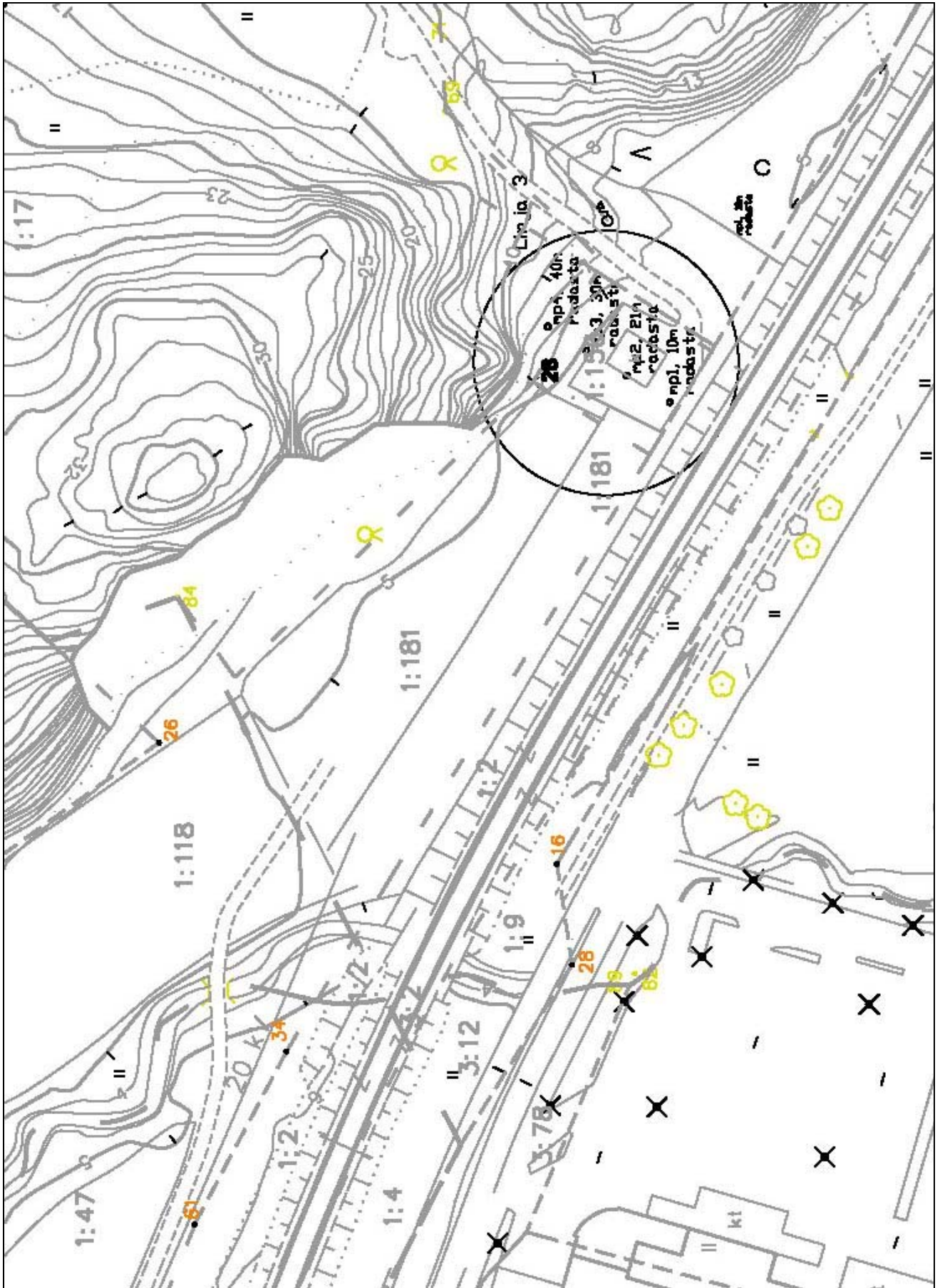
MITTAUSPISTE 1



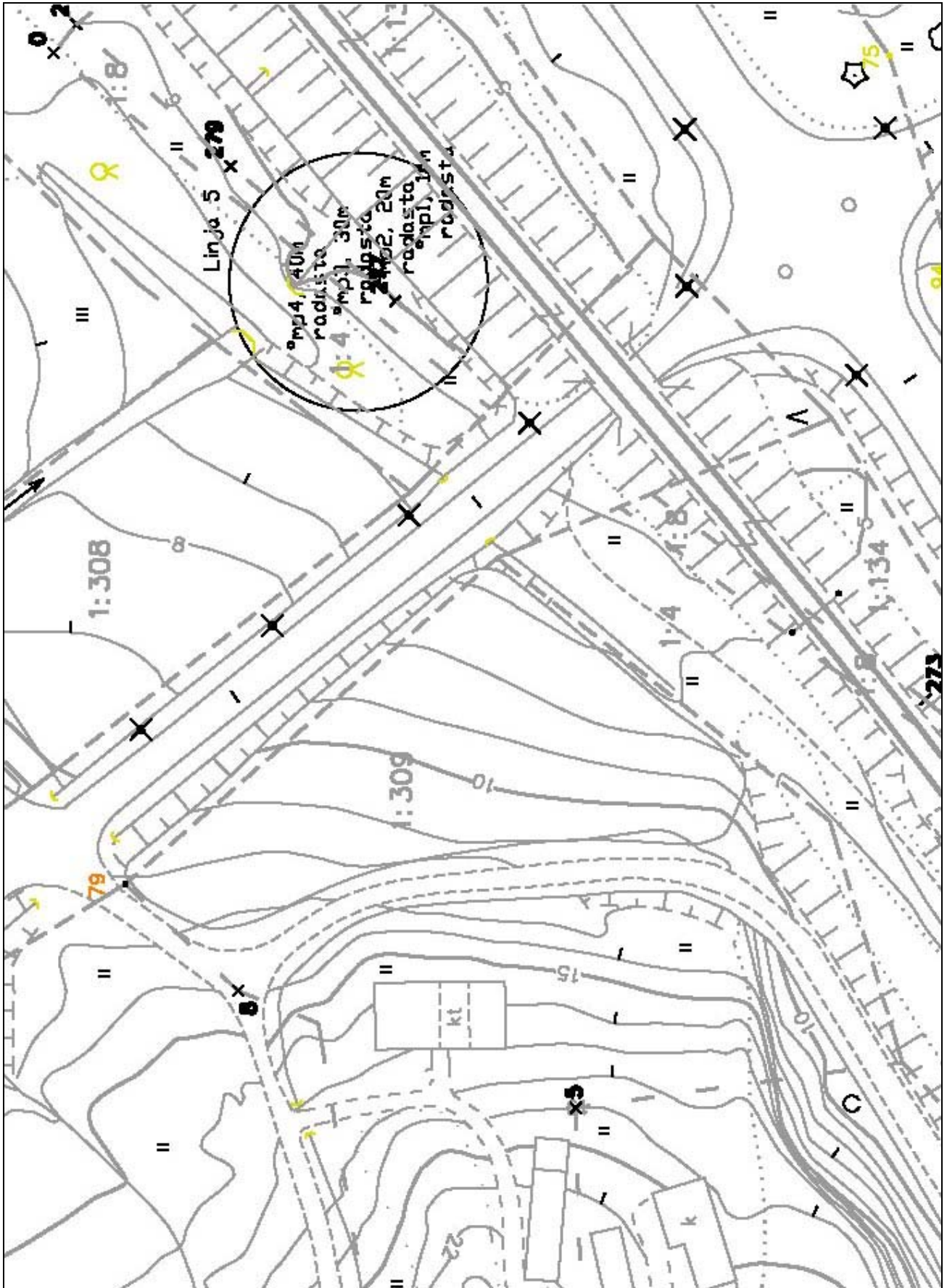
MITTAUSPISTE 2



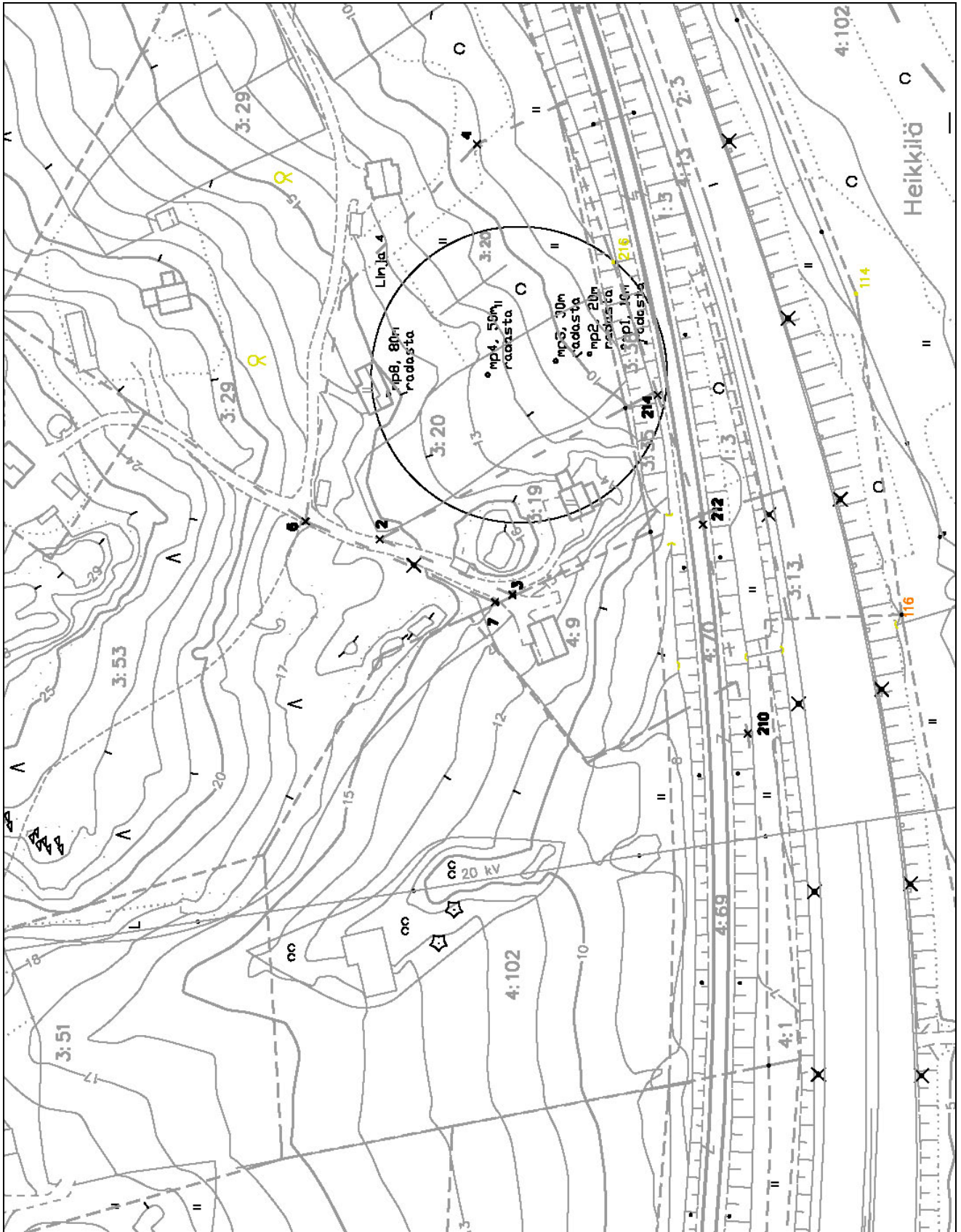
MITTAUSPISTE 3



MITTAUSPISTE 4



MITTAUSPISTE 5



LIITE 2

JUNALIIKENTEEEN MÄÄRÄT

JUNALIIKENTEEEN MÄÄRÄT

Kirkkonummen tärinäselvitys

Liikennemäärät

Päivä- ja yöajan liikennemäärät

Raideliikenne Helsinki-Turku radalla

Raideosuus	Nykytilanne			
	Päiväliikenne (7-22)		Yöliikenne (22-7)	
	Junien lukumäärä	Junien pituus	Junien lukumäärä	Junien pituus
Lähijunat (Sm1/2)	64	106	21	106
Lähijunat (Sm4)	0	108	0	108
Pikajunat (Sr(P))	6	283	2	230
IC-junat (Sr(IC))	1	336	1	230
IC2-junat (Sr(IC2))	15	125	1	125
Pendolinot (Pen)	11	318	0	318

Pendolinot eivät pysähdy Kirkkonummella (yksi poikkeus), kaikki muut junat pysähtyvät (yksi poikkeus).

LIITE 3

MITTAUSTULOKSET



Event Date: January 4, 2007

Event Time: 15:30:21

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHID.QL0

Trigger: Long

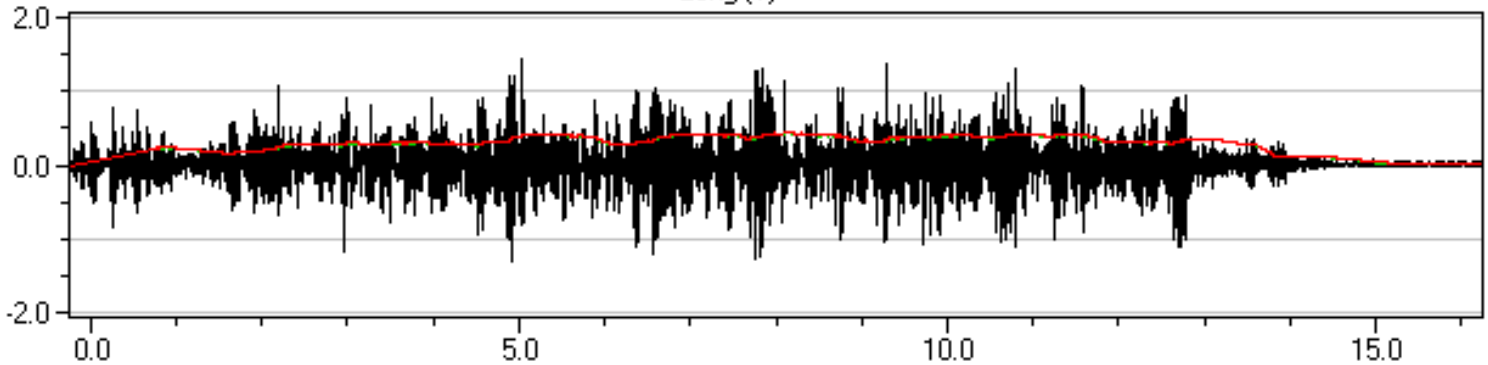
Record Time: 16.25 sec

Sample Rate: 1024 sps

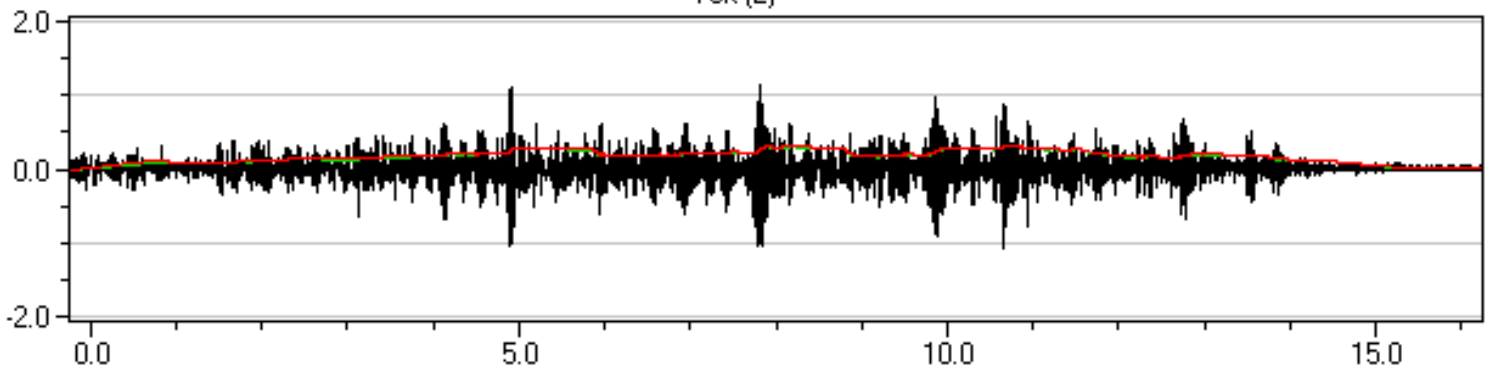
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.05	1.13	1.43	mm/s	
ZC Freq	37	32	32	Hz	
Time of Peak	7.779	7.813	5.031	Sec	
Peak Acceleration	0.0497	0.0282	0.0348	g	
Peak Displacement	0.00964	0.00561	0.00692	mm	rms of magnitude
RMS (1s fw 5.6)	0,58	0,32	0,43		0,77
RMS (1s)	0,58	0,32	0,44		0,78

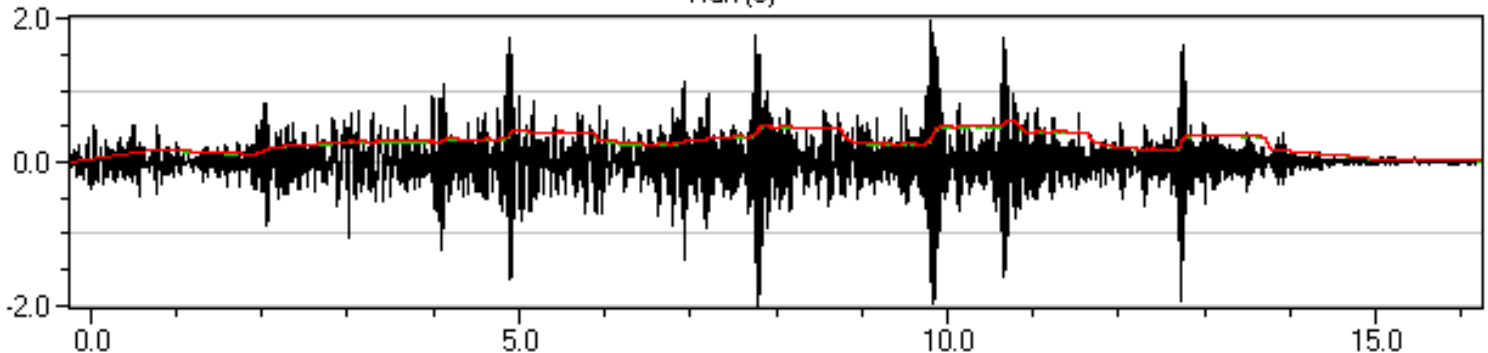
Long (1)



Vert (2)



Tran (3)





Event Date: January 4, 2007

Event Time: 17:30:16

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHIJ.AG0

Trigger: Tran

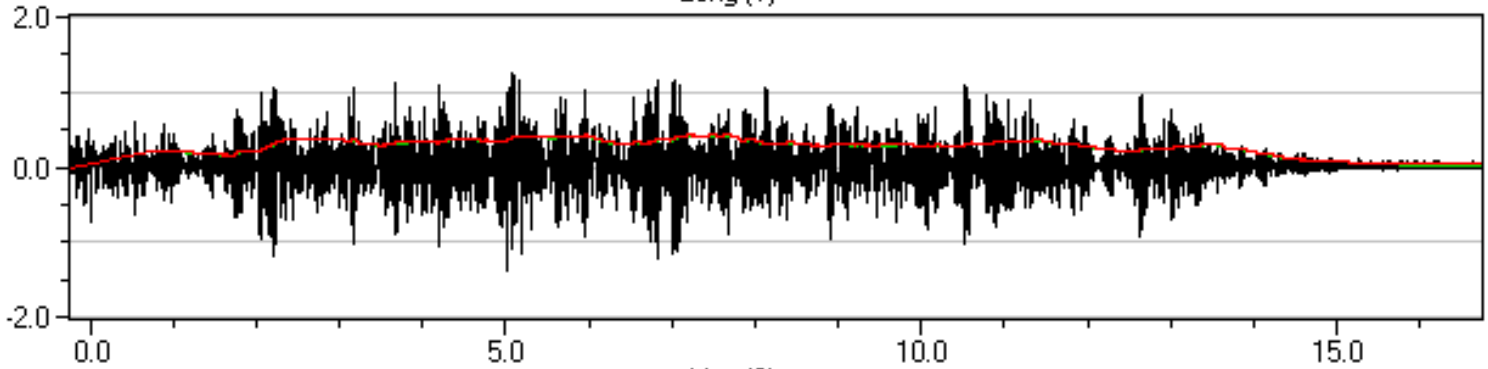
Record Time: 16.75 sec

Sample Rate: 1024 sps

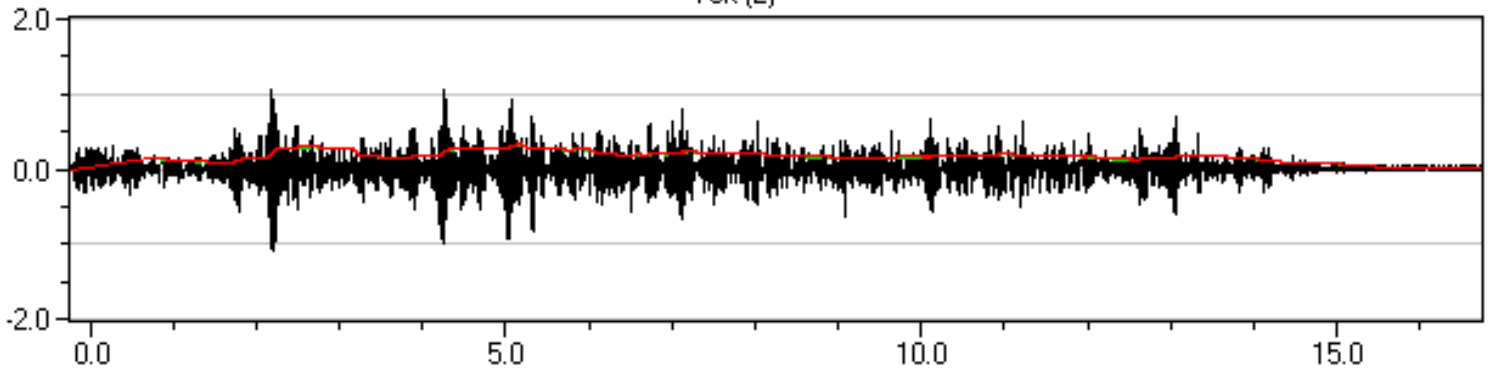
Calibration: April 27, 2006 by InstanTEL Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.02	1.08	1.37	mm/s	
ZC Freq	34	37	39	Hz	
Time of Peak	4.245	2.196	5.021	Sec	
Peak Acceleration	0.0481	0.0265	0.0398	g	
Peak Displacement	0.00924	0.00525	0.00574	mm	rms of magnitude
RMS (1s fw 5.6)	0,56	0,32	0,42		0,77
RMS (1s)	0,57	0,33	0,43		0,78

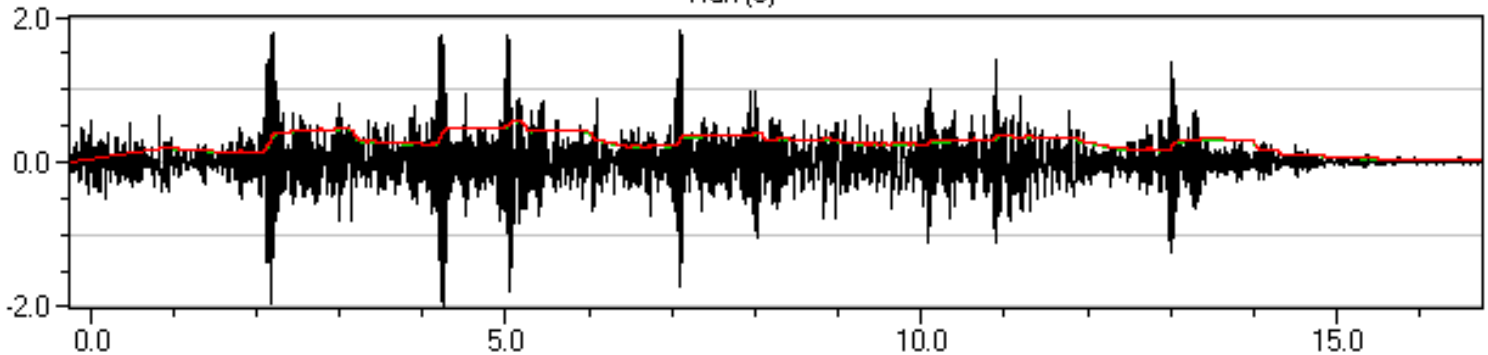
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 09:30:28

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHJR.QS0

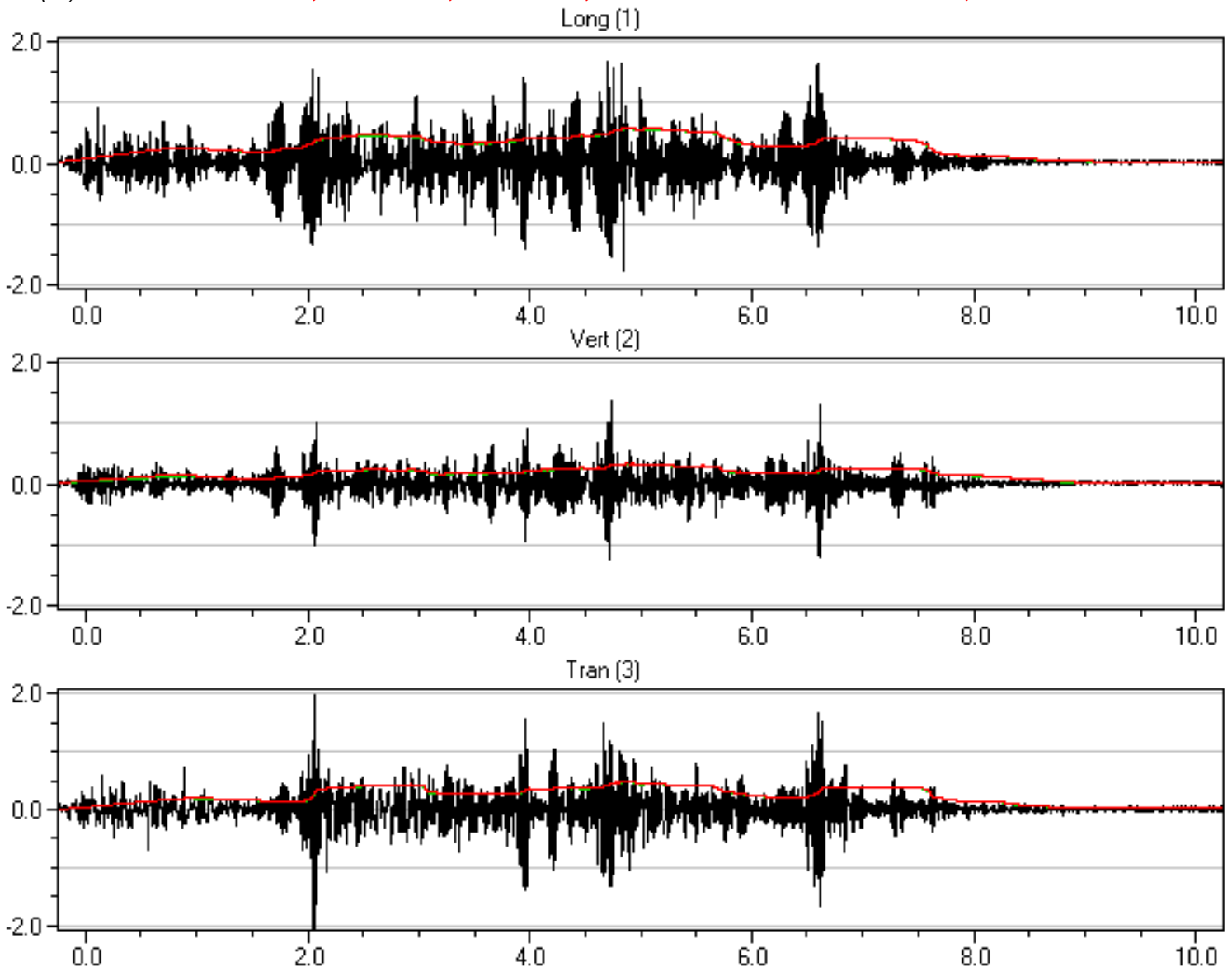
Trigger: Long

Record Time: 10.25 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.08	1.38	1.78	mm/s	
ZC Freq	39	37	39	Hz	
Time of Peak	2.053	4.730	4.845	Sec	
Peak Acceleration	0.0497	0.0365	0.0464	g	
Peak Displacement	0.00833	0.00581	0.00747	mm	rms of magnitude
RMS (1s fw 5.6)	0,48	0,33	0,58		0,83
RMS (1s)	0,49	0,33	0,59		0,84





Event Date: January 5, 2007

Event Time: 10:30:14

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHJU.IE0

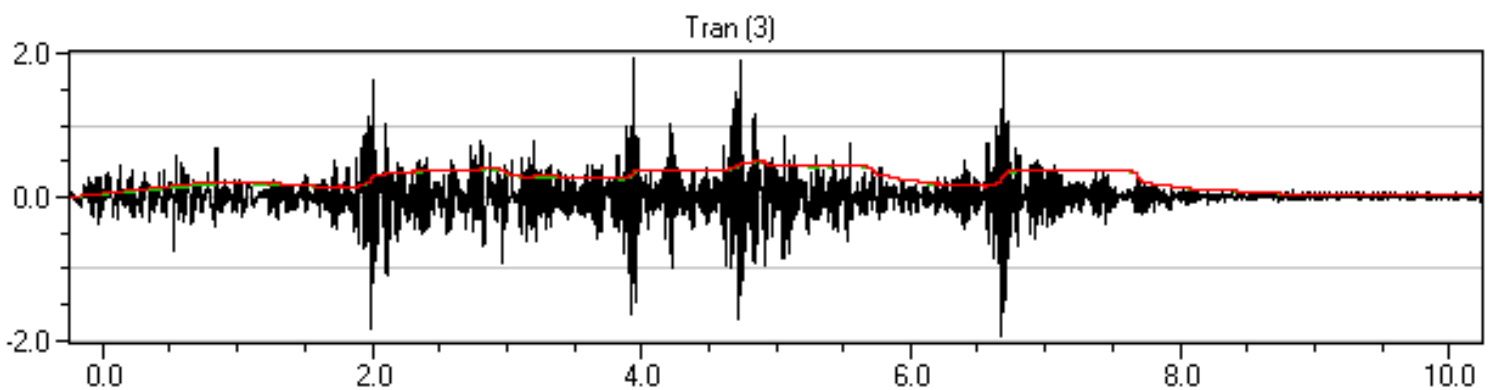
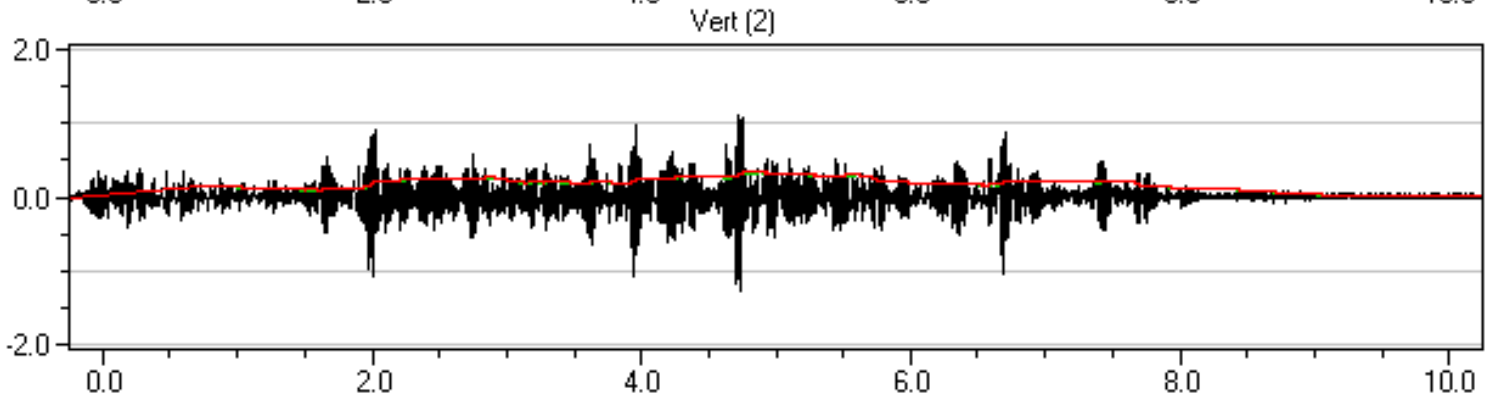
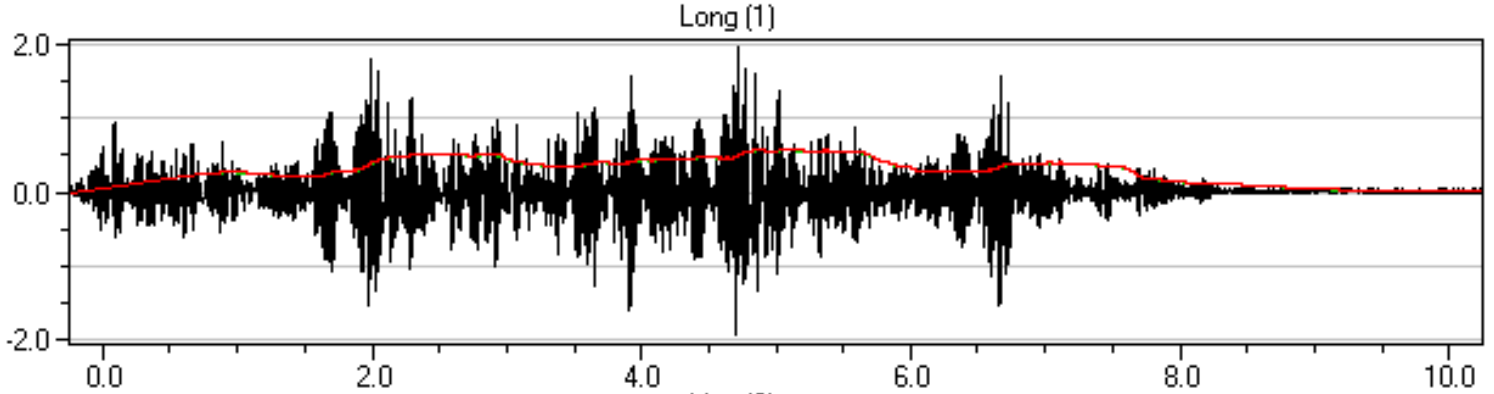
Trigger: Long

Record Time: 10.25 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.05	1.27	1.94	mm/s	
ZC Freq	39	39	43	Hz	
Time of Peak	6.690	4.733	4.713	Sec	
Peak Acceleration	0.0514	0.0348	0.0547	g	
Peak Displacement	0.00816	0.00507	0.00736	mm	rms of magnitude
RMS (1s fw 5.6)	0,50	0,33	0,57		0,83
RMS (1s)	0,51	0,33	0,58		0,84





Event Date: January 5, 2007

Event Time: 15:30:13

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHK8.ED0

Trigger: Tran

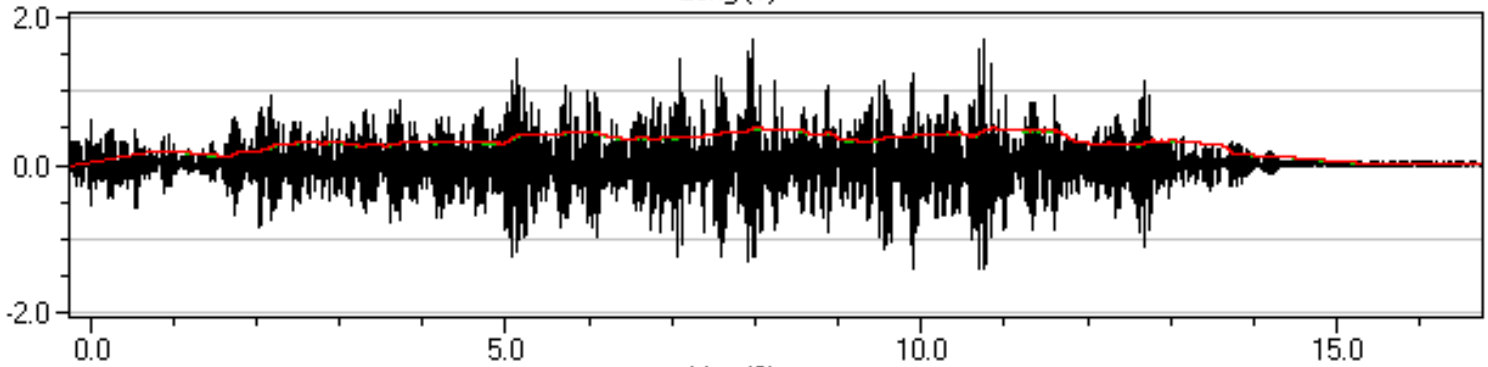
Record Time: 16.75 sec

Sample Rate: 1024 sps

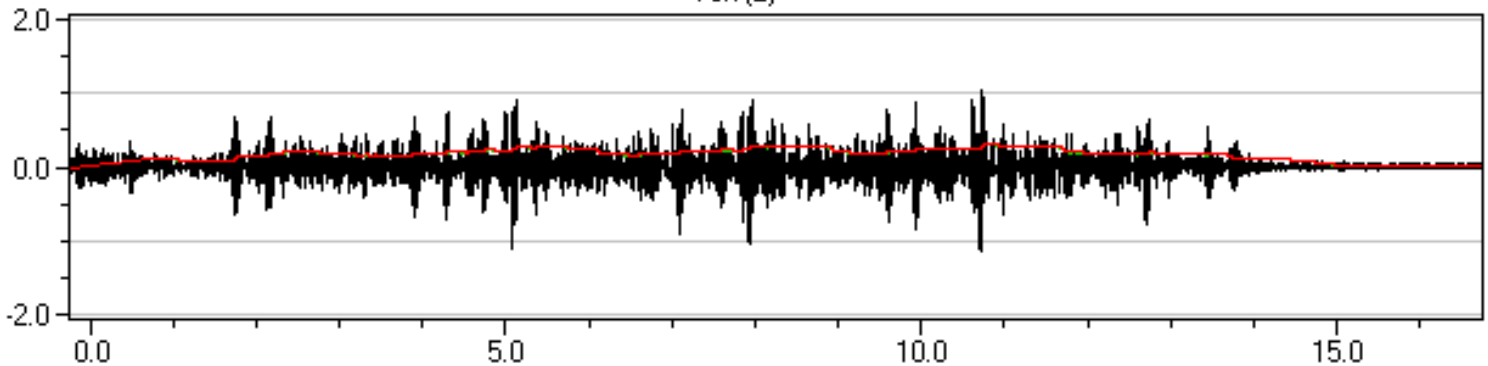
Calibration: April 27, 2006 by InstanTEL Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.06	1.14	1.71	mm/s	
ZC Freq	39	47	37	Hz	
Time of Peak	10.710	10.726	7.981	Sec	
Peak Acceleration	0.0530	0.0331	0.0447	g	
Peak Displacement	0.00827	0.00481	0.00743	mm	rms of magnitude
RMS (1s fw 5.6)	0,50	0,30	0,50		0,77
RMS (1s)	0,51	0,31	0,51		0,78

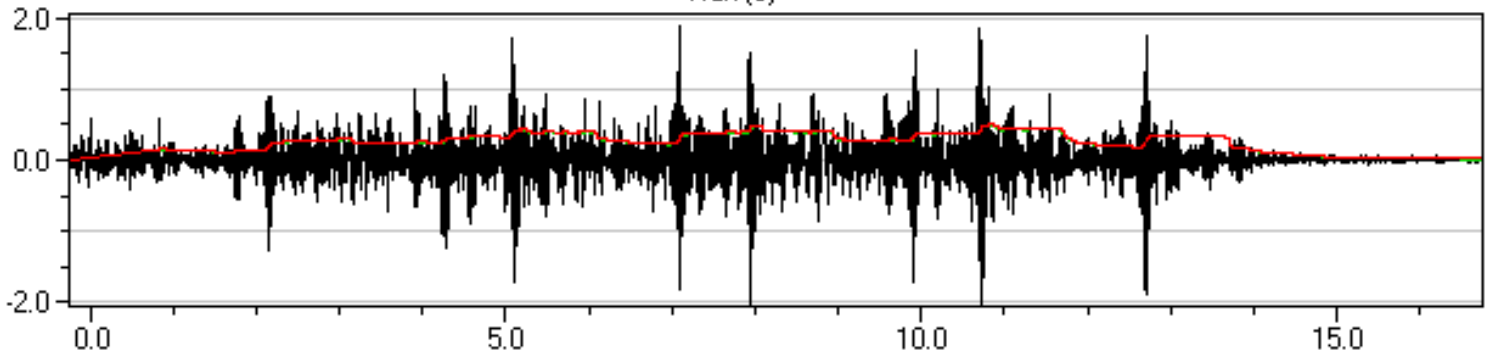
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 17:30:11

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHKD.YB0

Trigger: Long

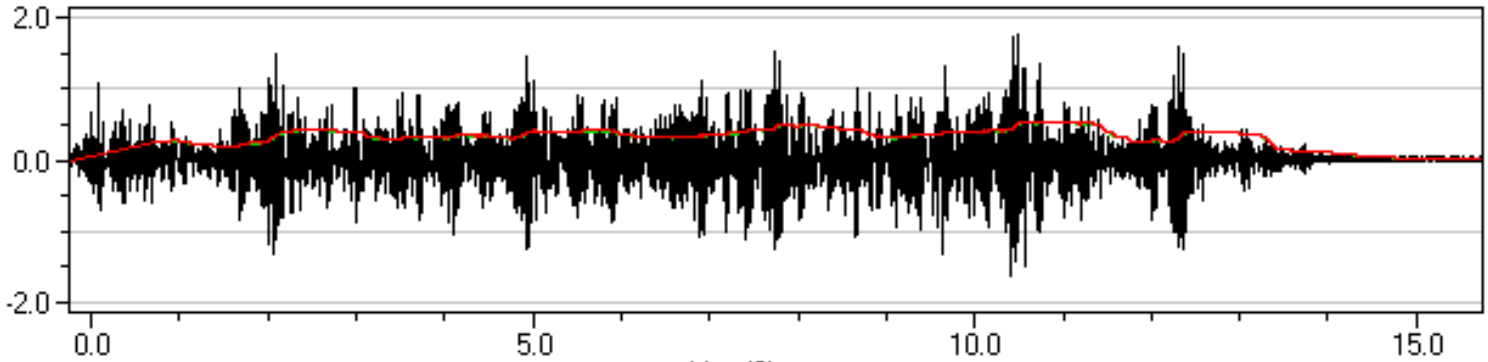
Record Time: 15.75 sec

Sample Rate: 1024 sps

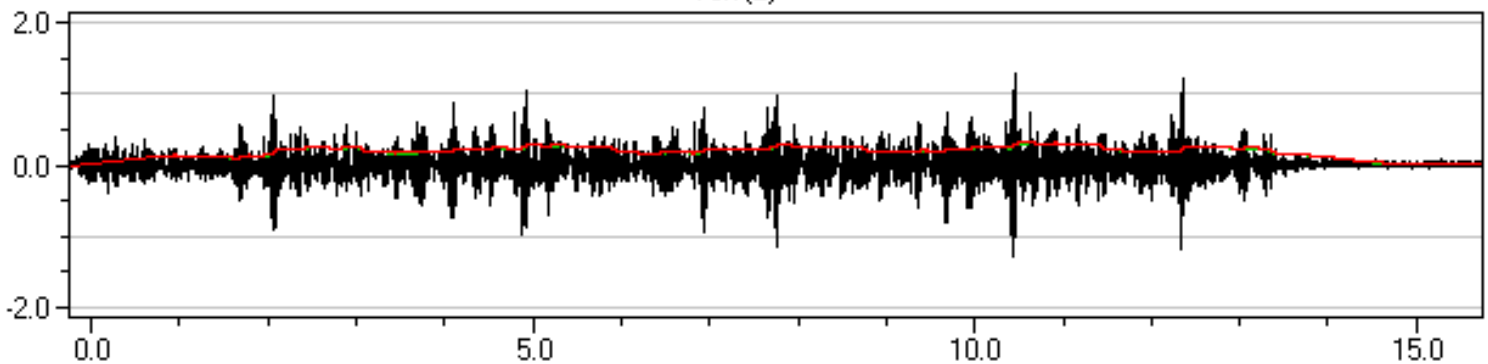
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.14	1.29	1.75	mm/s	
ZC Freq	39	37	37	Hz	
Time of Peak	7.743	10.458	10.479	Sec	
Peak Acceleration	0.0530	0.0348	0.0514	g	
Peak Displacement	0.00970	0.00515	0.00770	mm	rms of magnitude
RMS (1s fw 5.6)	0,51	0,31	0,54		0,77
RMS (1s)	0,51	0,32	0,55		0,78

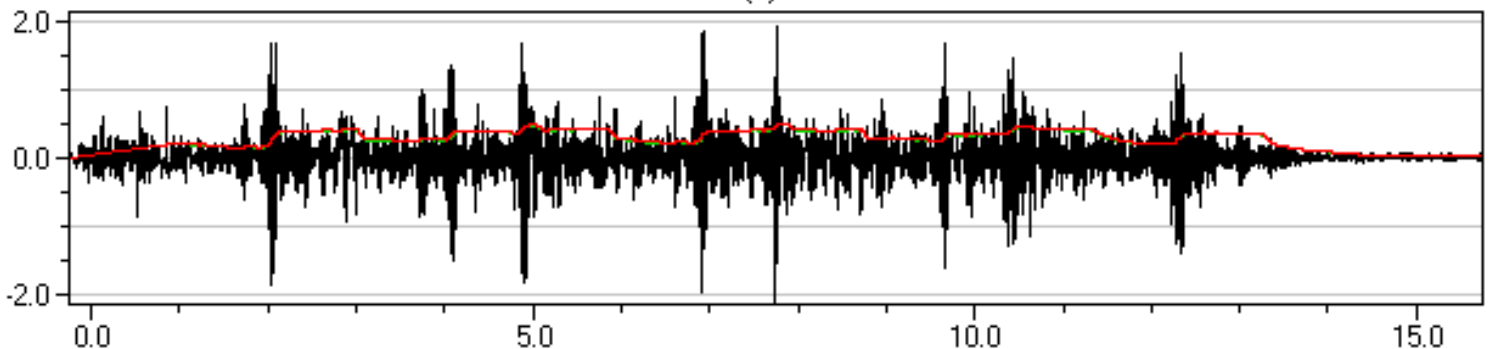
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 18:30:26

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHKG.QQ0

Trigger: Long

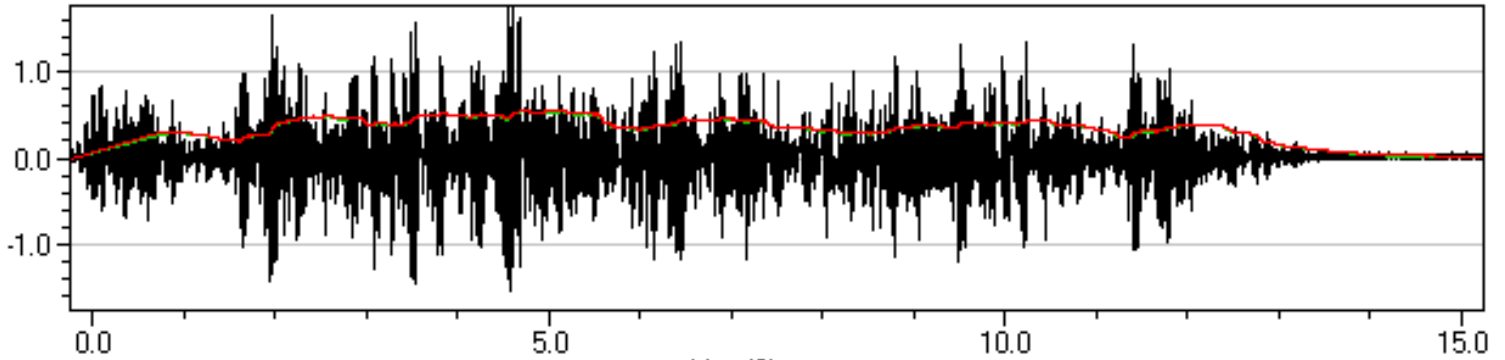
Record Time: 15.25 sec

Sample Rate: 1024 sps

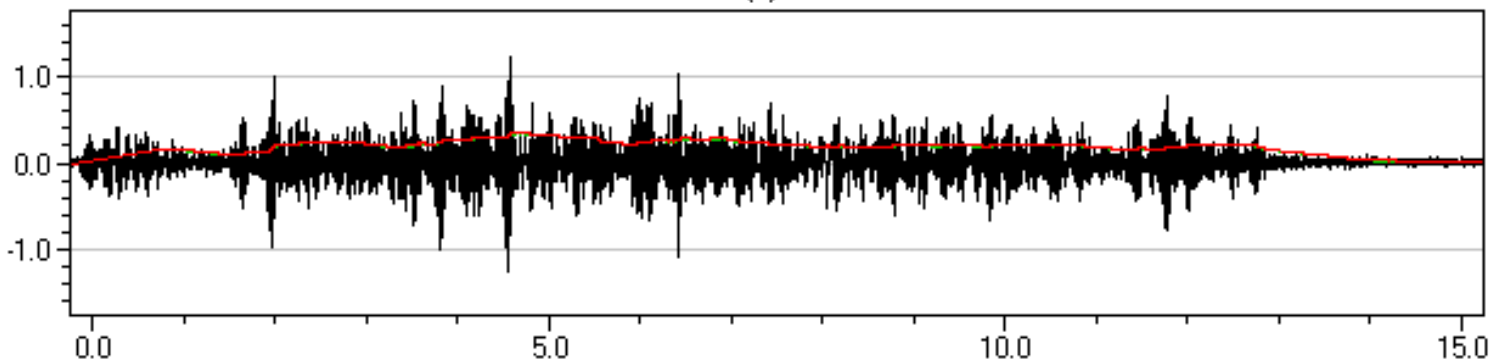
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.71	1.25	1.76	mm/s	
ZC Freq	43	39	34	Hz	
Time of Peak	4.504	4.560	4.594	Sec	
Peak Acceleration	0.0447	0.0348	0.0464	g	
Peak Displacement	0.00903	0.00537	0.00807	mm	rms of magnitude
RMS (1s fw 5.6)	0,48	0,34	0,54		0,80
RMS (1s)	0,49	0,34	0,55		0,81

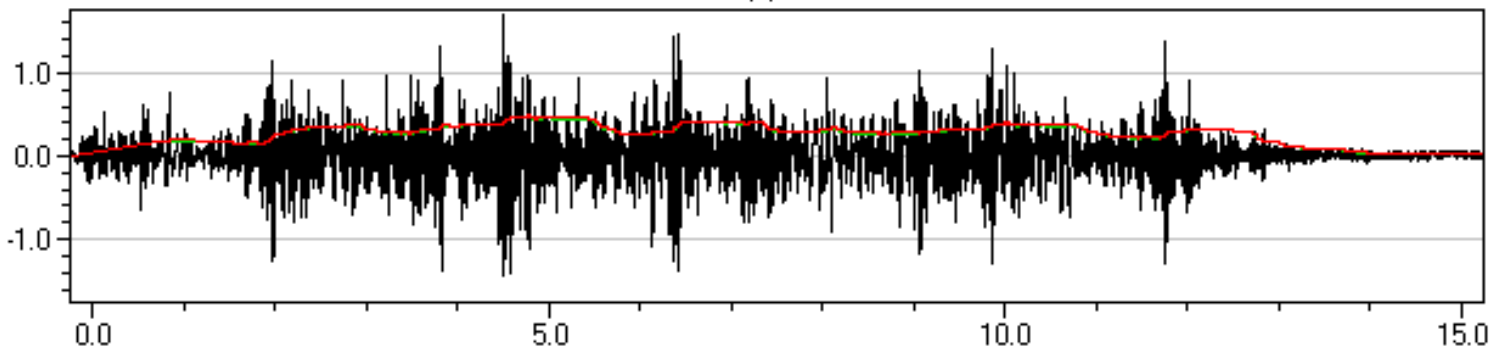
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 20:30:22

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHKM.AM0

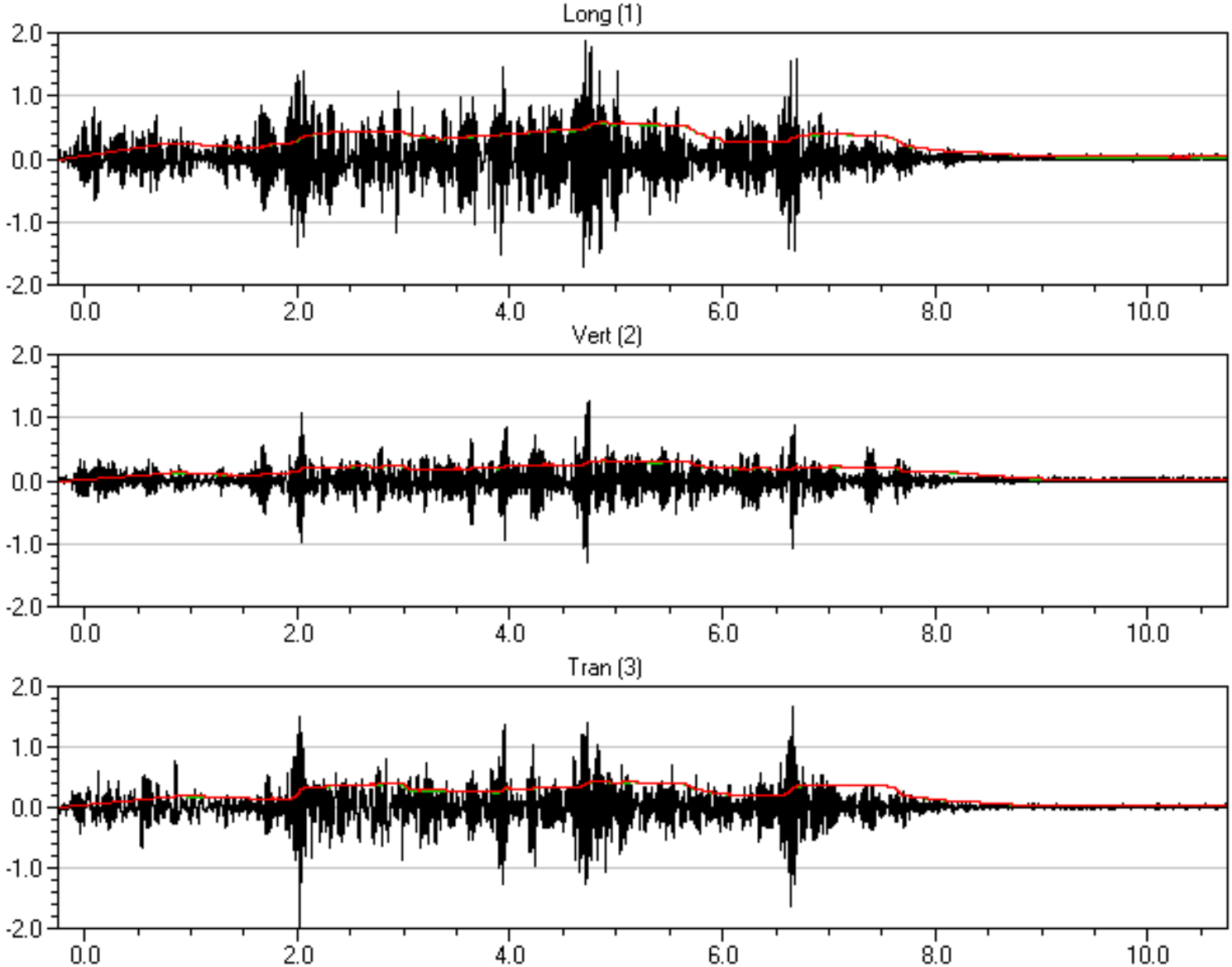
Trigger: Long

Record Time: 10.75 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.00	1.29	1.87	mm/s	
ZC Freq	39	43	43	Hz	
Time of Peak	2.016	4.725	4.704	Sec	
Peak Acceleration	0.0481	0.0365	0.0563	g	
Peak Displacement	0.00784	0.00530	0.00803	mm	rms of magnitude
RMS (1s fw 5.6)	0,44	0,32	0,57		0,79
RMS (1s)	0,44	0,32	0,58		0,80





Event Date: January 7, 2007

Event Time: 12:30:33

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHNP.EX0

Trigger: Long

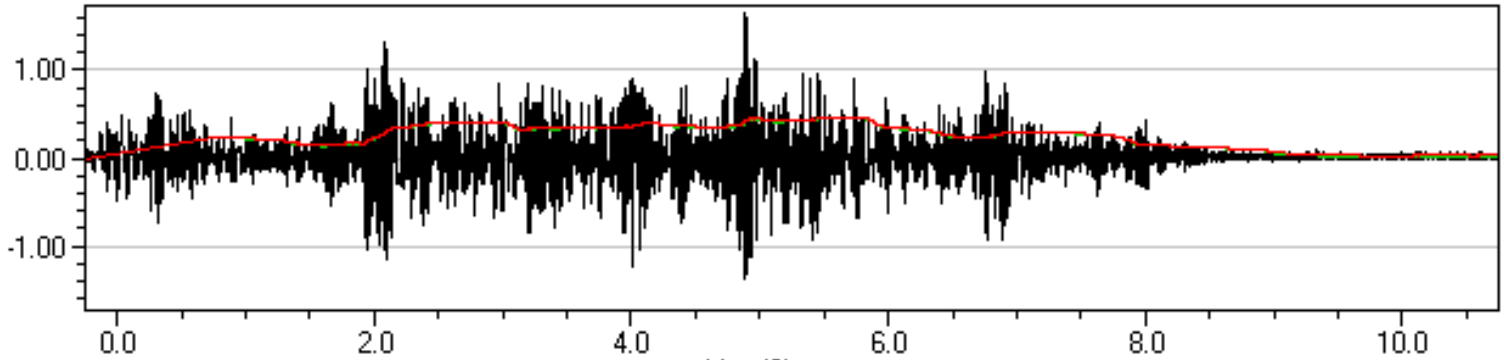
Record Time: 10.75 sec

Sample Rate: 1024 sps

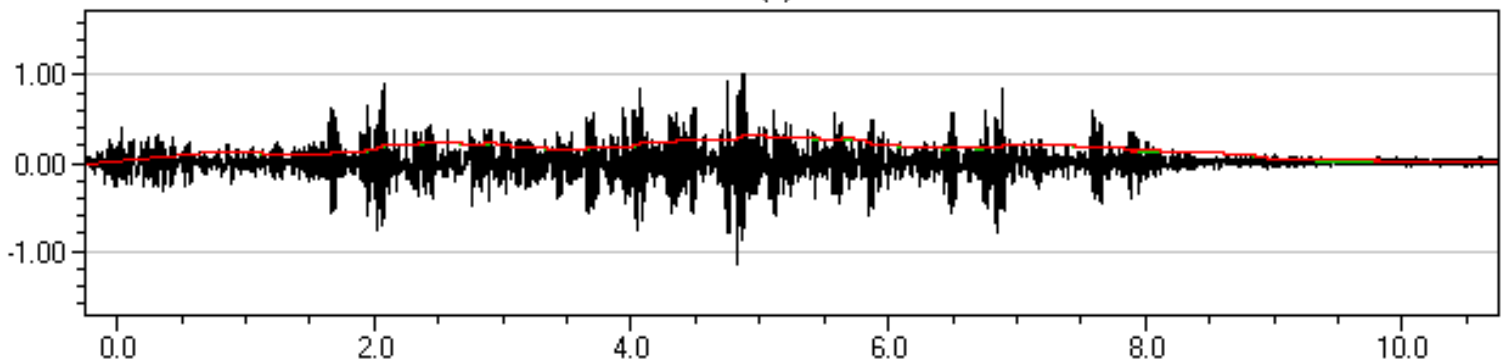
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.73	1.16	1.64	mm/s	
ZC Freq	39	43	37	Hz	
Time of Peak	4.062	4.829	4.889	Sec	
Peak Acceleration	0.0431	0.0298	0.0398	g	
Peak Displacement	0.00767	0.00455	0.00723	mm	rms of magnitude
RMS (1s fw 5.6)	0,48	0,32	0,46		0,73
RMS (1s)	0,49	0,32	0,46		0,74

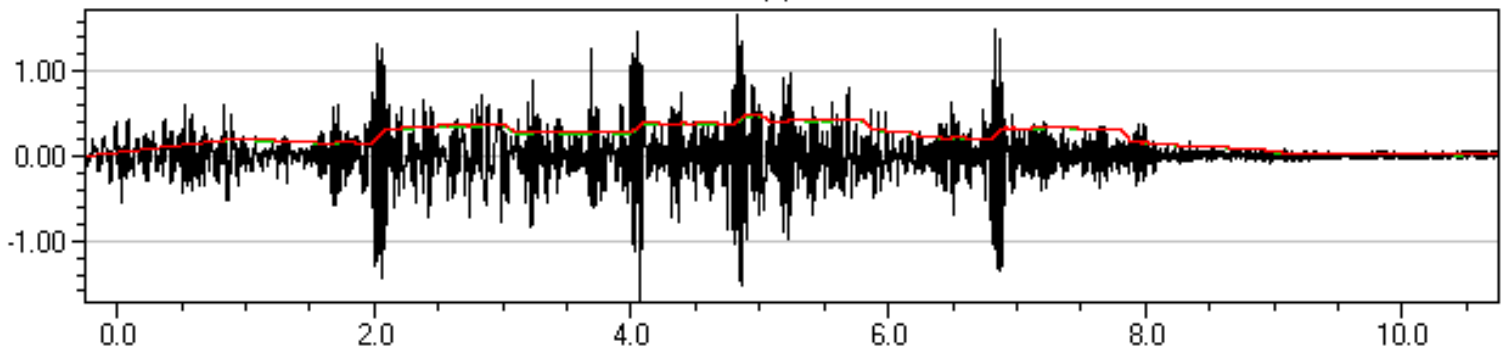
Long (1)



Vert (2)



Tran (3)





Event Date: January 7, 2007

Event Time: 16:30:29

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHO0.IT0

Trigger: Long

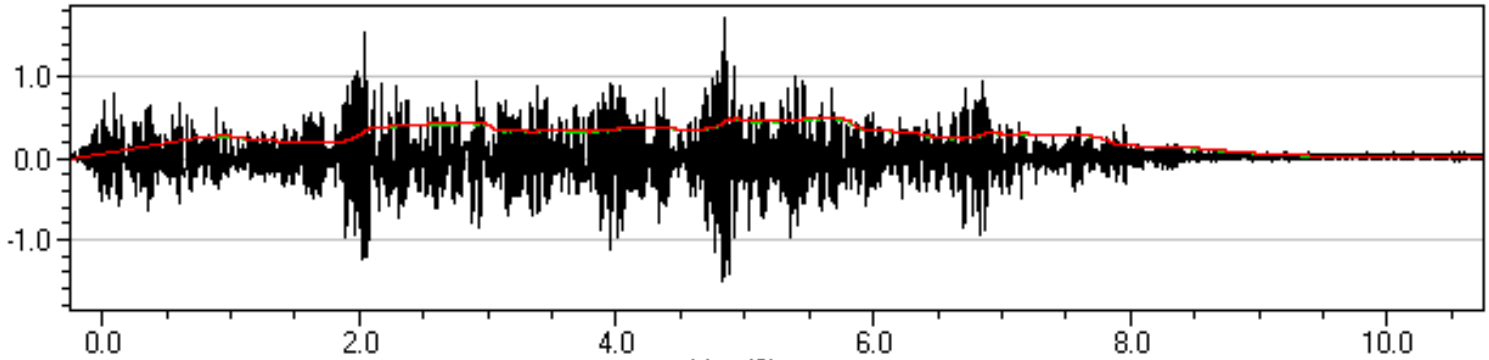
Record Time: 10.75 sec

Sample Rate: 1024 sps

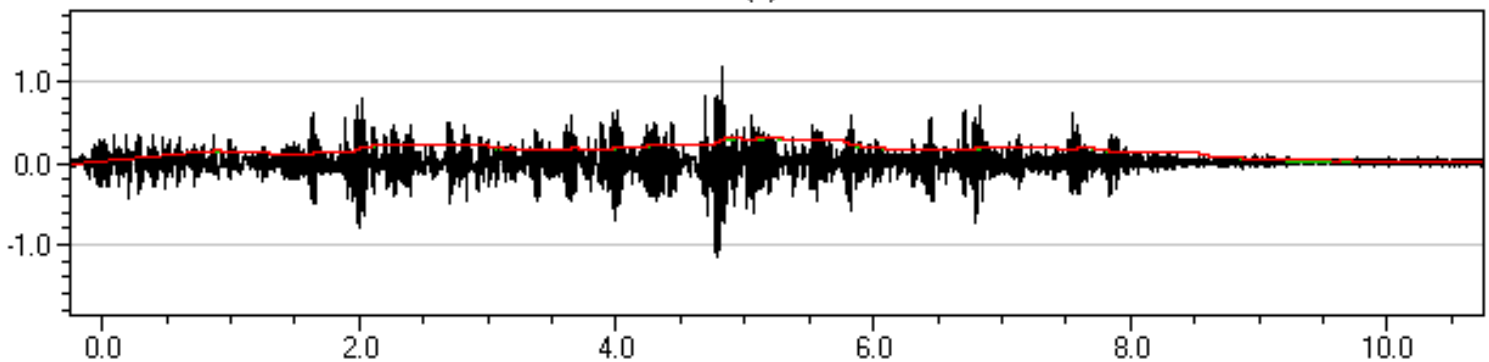
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.87	1.17	1.73	mm/s	
ZC Freq	37	32	34	Hz	
Time of Peak	4.814	4.818	4.836	Sec	
Peak Acceleration	0.0481	0.0298	0.0431	g	
Peak Displacement	0.00828	0.00531	0.00796	mm	rms of magnitude
RMS (1s fw 5.6)	0,52	0,30	0,49		0,77
RMS (1s)	0,53	0,31	0,49		0,78

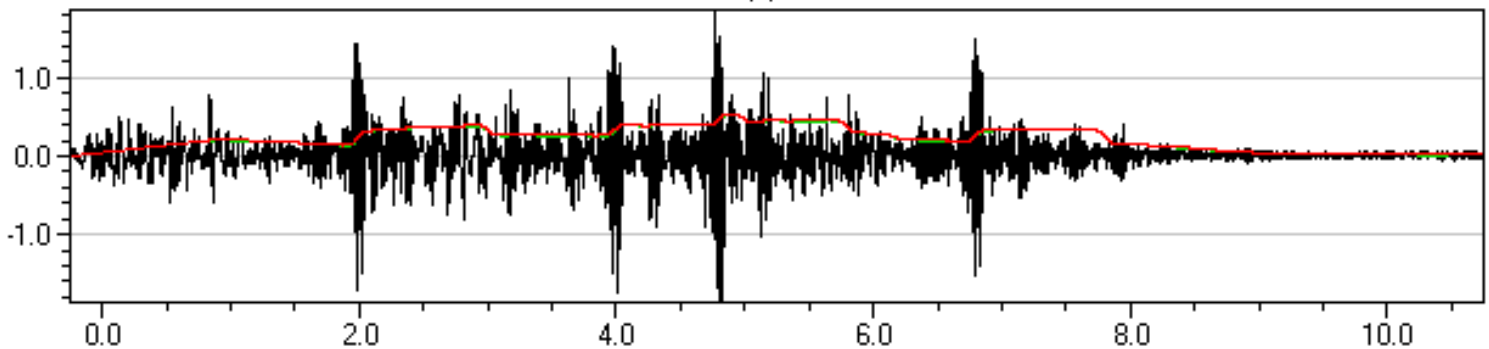
Long (1)



Vert (2)



Tran (3)





Event Date: January 8, 2007

Event Time: 15:30:17

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHPS.EH0

Trigger: Long

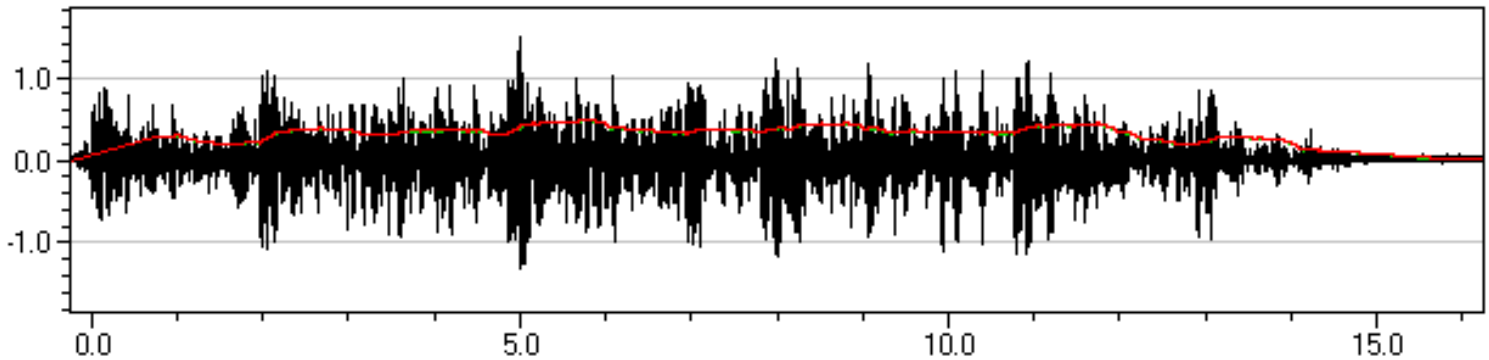
Record Time: 16.25 sec

Sample Rate: 1024 sps

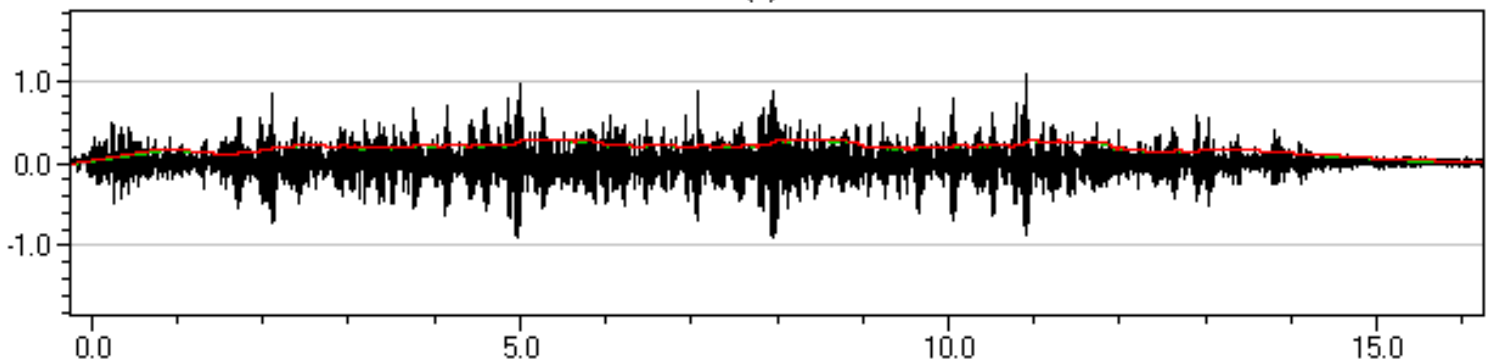
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.84	1.06	1.48	mm/s	
ZC Freq	39	34	34	Hz	
Time of Peak	7.069	10.919	5.012	Sec	
Peak Acceleration	0.0447	0.0249	0.0348	g	
Peak Displacement	0.00798	0.00493	0.00684	mm	rms of magnitude
RMS (1s fw 5.6)	0,47	0,29	0,48		0,69
RMS (1s)	0,48	0,29	0,49		0,70

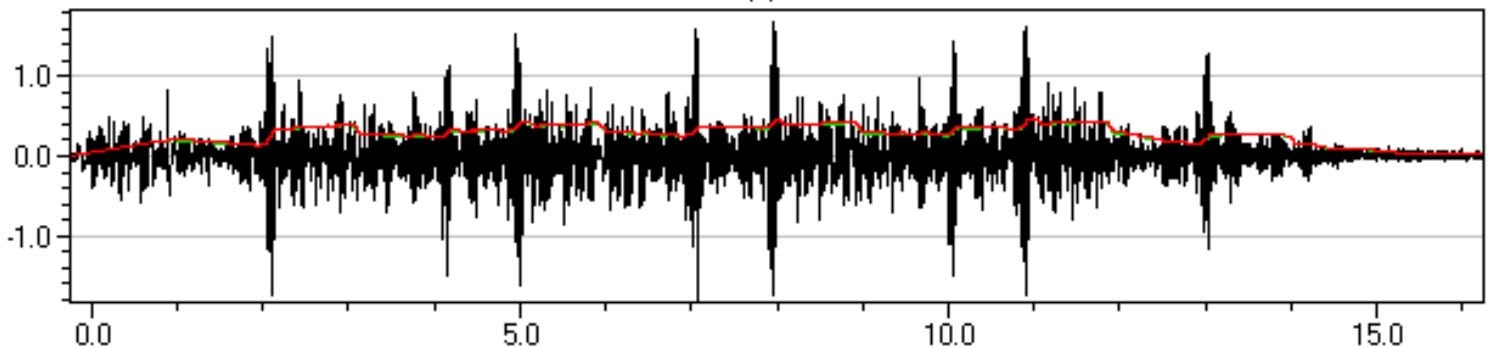
Long (1)



Vert (2)



Tran (3)





Event Date: January 8, 2007

Event Time: 22:30:34

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHQB.UY0

Trigger: Long

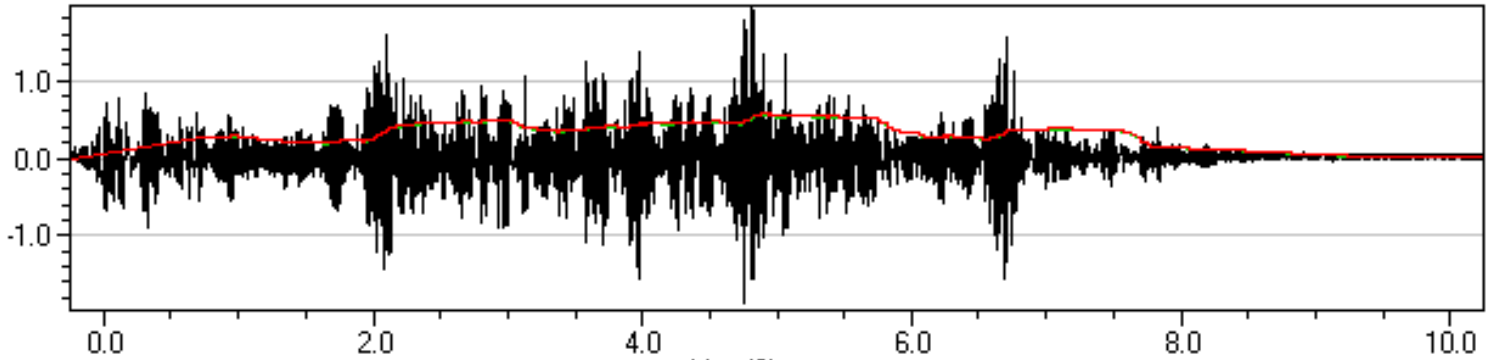
Record Time: 10.25 sec

Sample Rate: 1024 sps

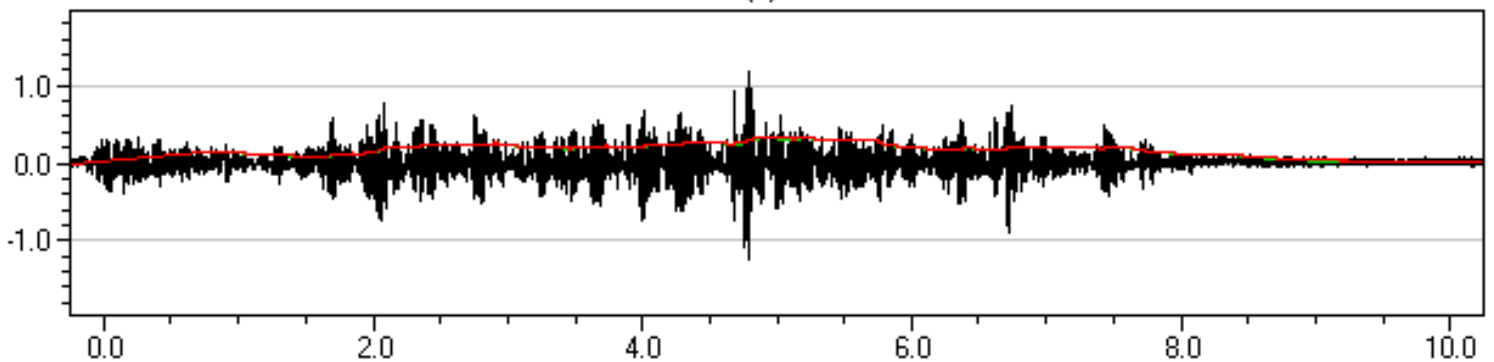
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.87	1.25	1.97	mm/s	
ZC Freq	43	39	37	Hz	
Time of Peak	4.769	4.784	4.817	Sec	
Peak Acceleration	0.0514	0.0315	0.0563	g	
Peak Displacement	0.00769	0.00536	0.00857	mm	rms of magnitude
RMS (1s fw 5.6)	0,53	0,32	0,57		0,84
RMS (1s)	0,54	0,32	0,58		0,85

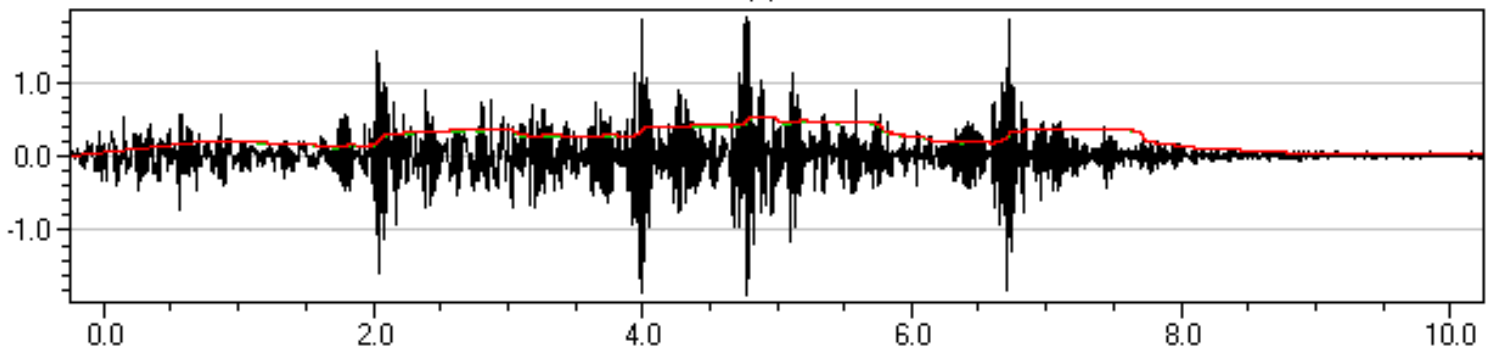
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 07:51:12

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHR1.TC0

Trigger: Tran

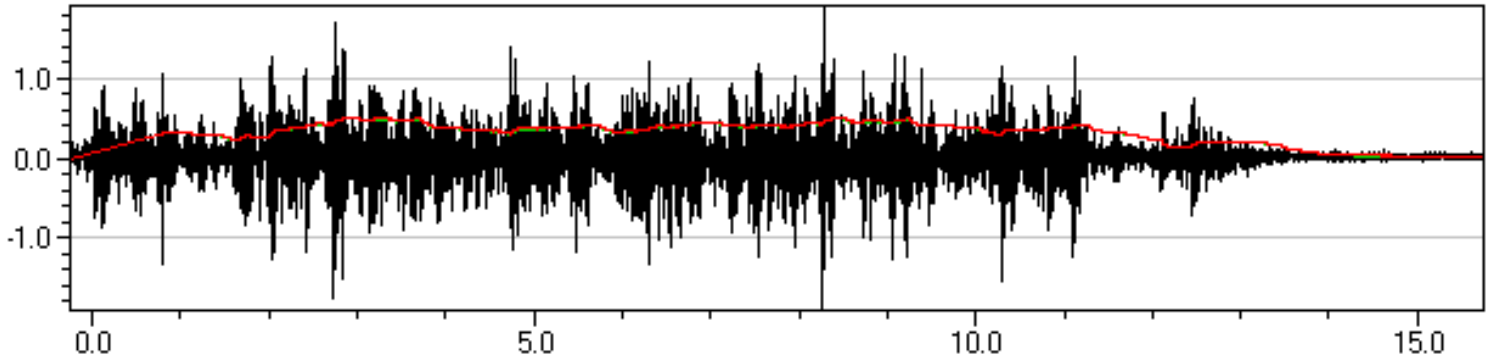
Record Time: 15.75 sec

Sample Rate: 1024 sps

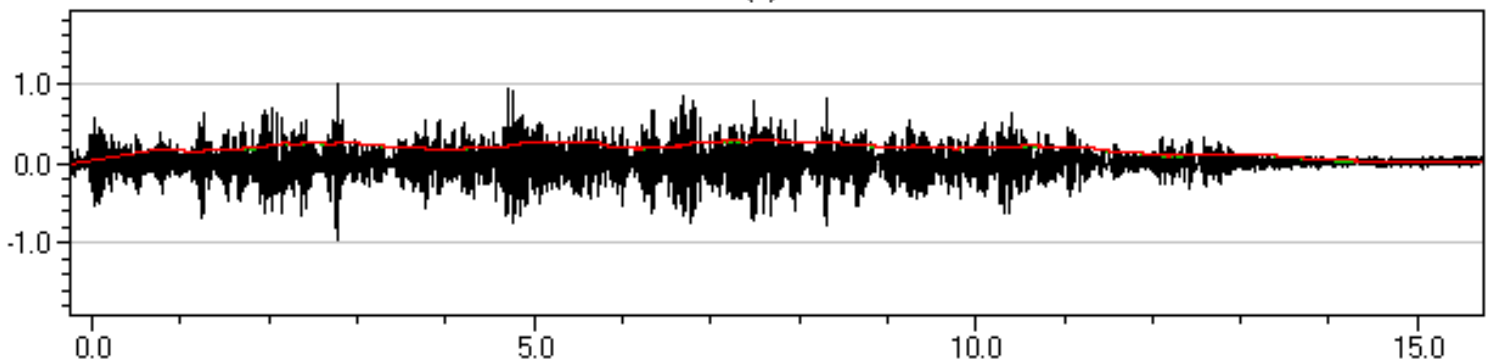
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.70	1.00	1.92	mm/s	
ZC Freq	43	39	47	Hz	
Time of Peak	2.771	2.773	8.277	Sec	
Peak Acceleration	0.0447	0.0331	0.0630	g	
Peak Displacement	0.00711	0.00388	0.00654	mm	rms of magnitude
RMS (1s fw 5.6)	0,44	0,30	0,51		0,72
RMS (1s)	0,44	0,30	0,52		0,73

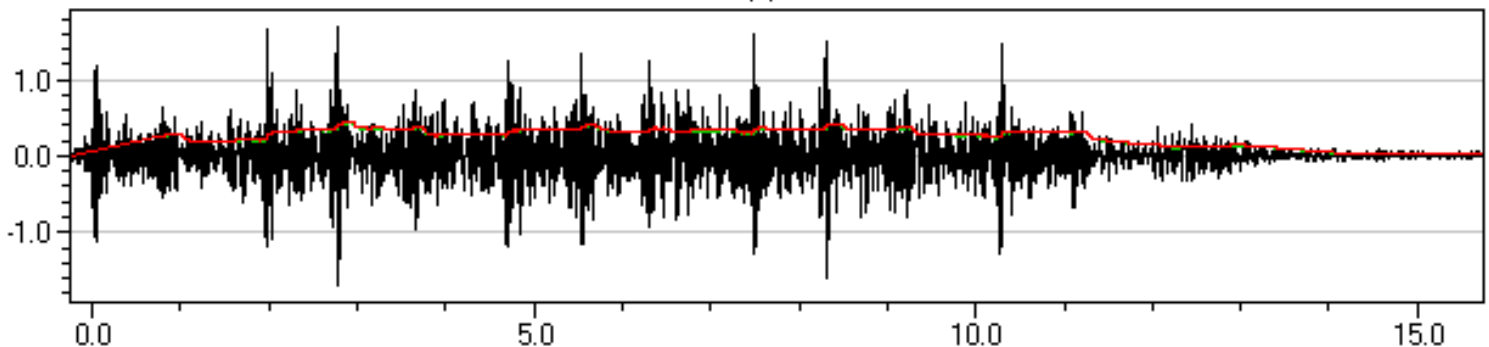
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 08:10:14

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHR2.P20

Trigger: Long

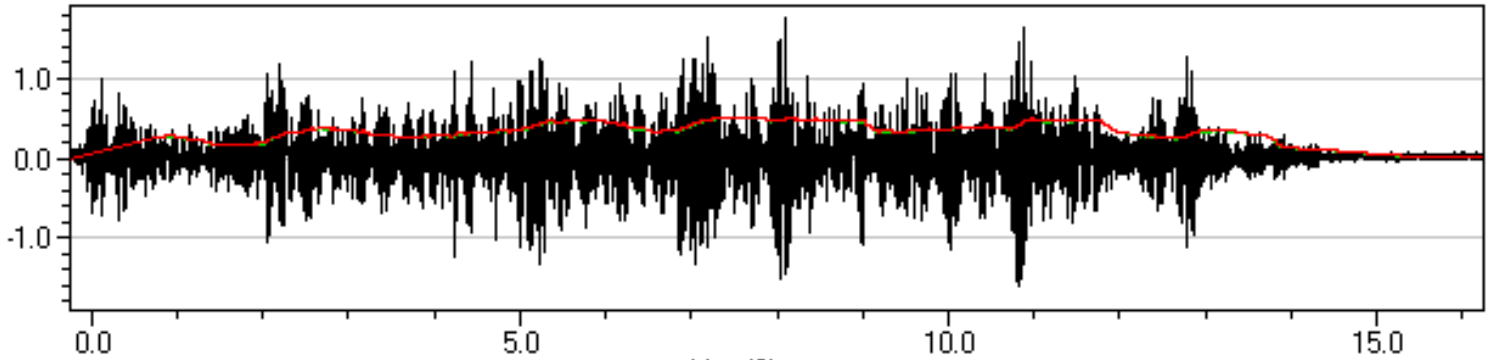
Record Time: 16.25 sec

Sample Rate: 1024 sps

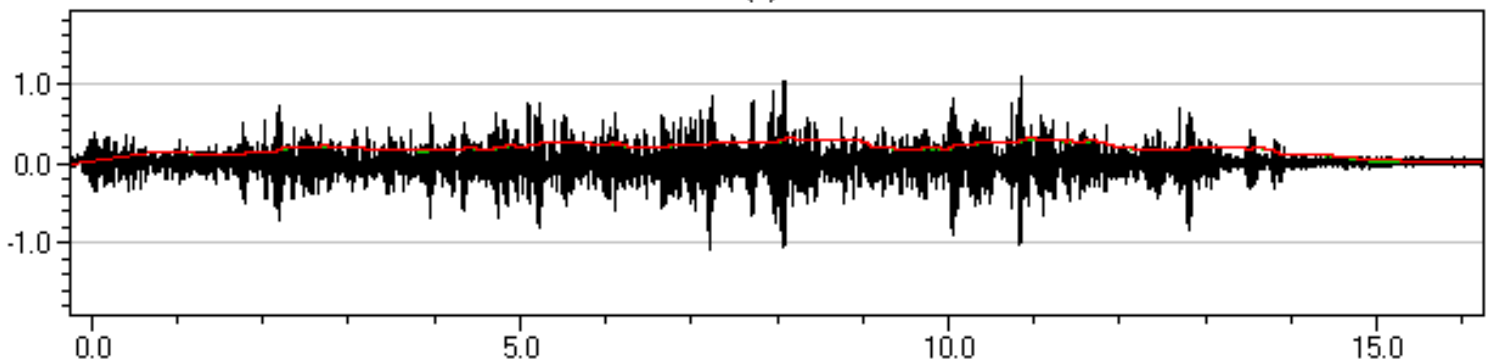
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.92	1.08	1.78	mm/s	
ZC Freq	37	43	37	Hz	
Time of Peak	10.830	7.223	8.103	Sec	
Peak Acceleration	0.0514	0.0315	0.0497	g	
Peak Displacement	0.00839	0.00513	0.00764	mm	rms of magnitude
RMS (1s fw 5.6)	0,53	0,32	0,51		0,78
RMS (1s)	0,54	0,32	0,51		0,79

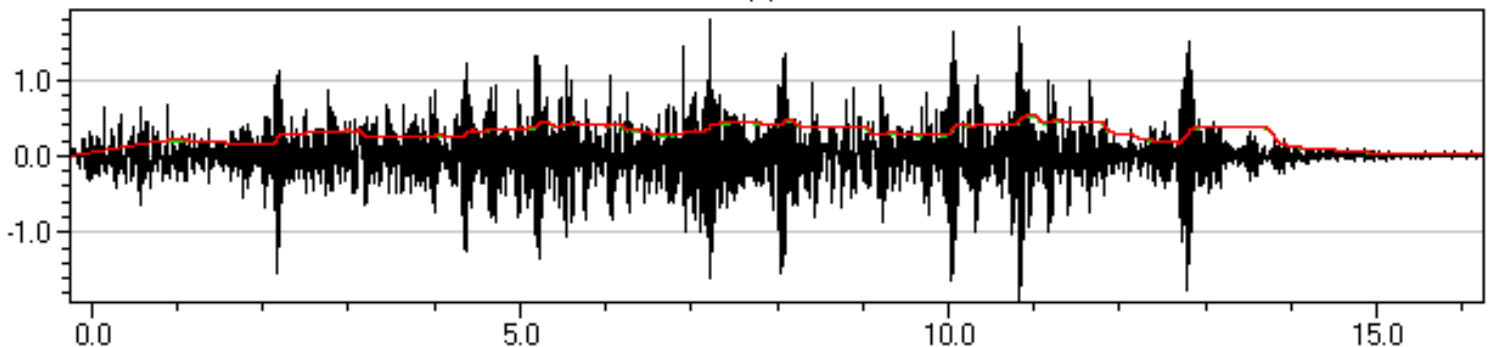
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 09:30:39

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHR6.F30

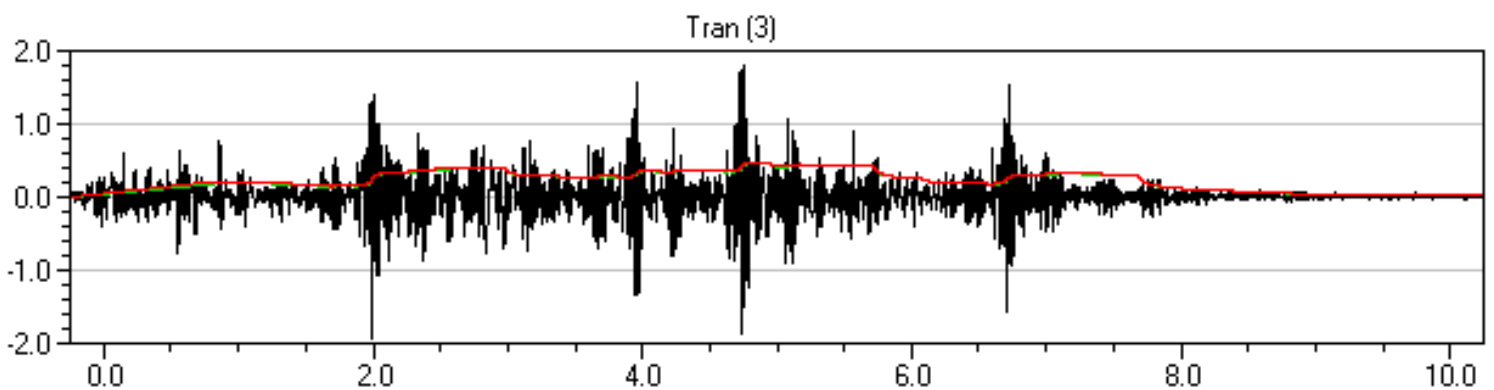
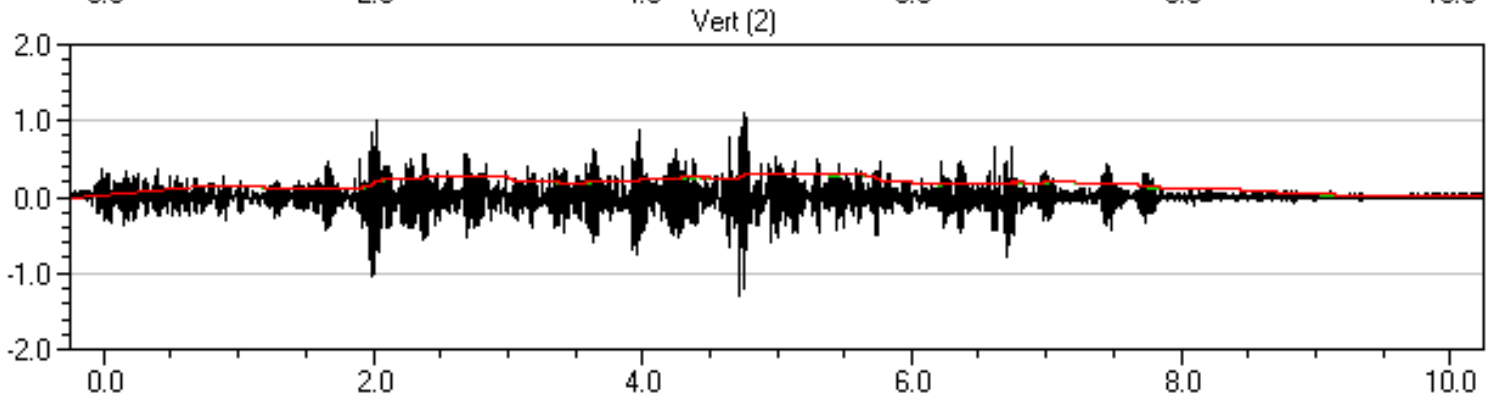
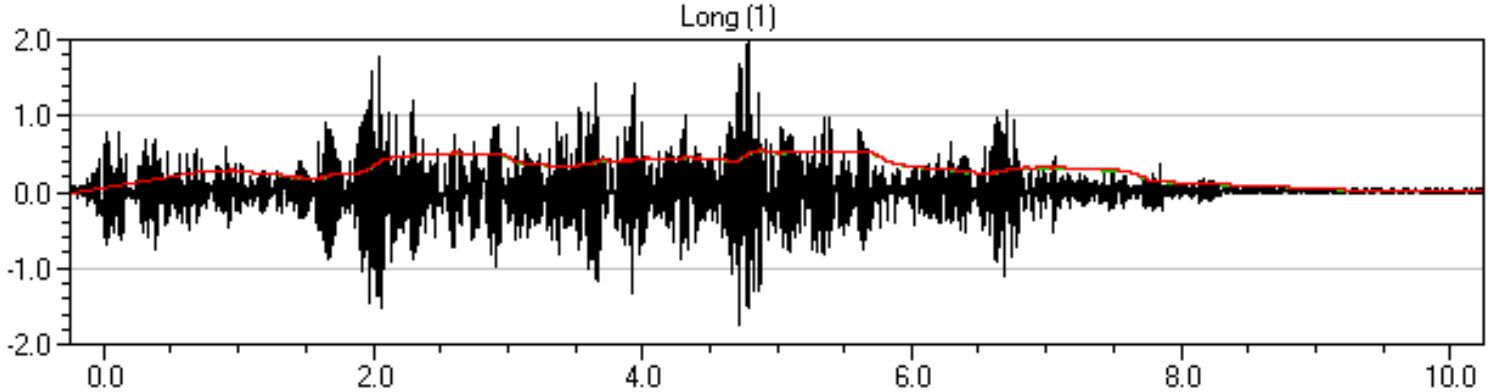
Trigger: Long

Record Time: 10.25 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.92	1.30	2.00	mm/s	
ZC Freq	39	47	37	Hz	
Time of Peak	1.993	4.725	4.782	Sec	
Peak Acceleration	0.0481	0.0348	0.0481	g	
Peak Displacement	0.00746	0.00529	0.00881	mm	rms of magnitude
RMS (1s fw 5.6)	0,47	0,32	0,54		0,78
RMS (1s)	0,48	0,32	0,55		0,79





Event Date: January 4, 2007

Event Time: 12:30:24

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHI5.E00

Trigger: Long

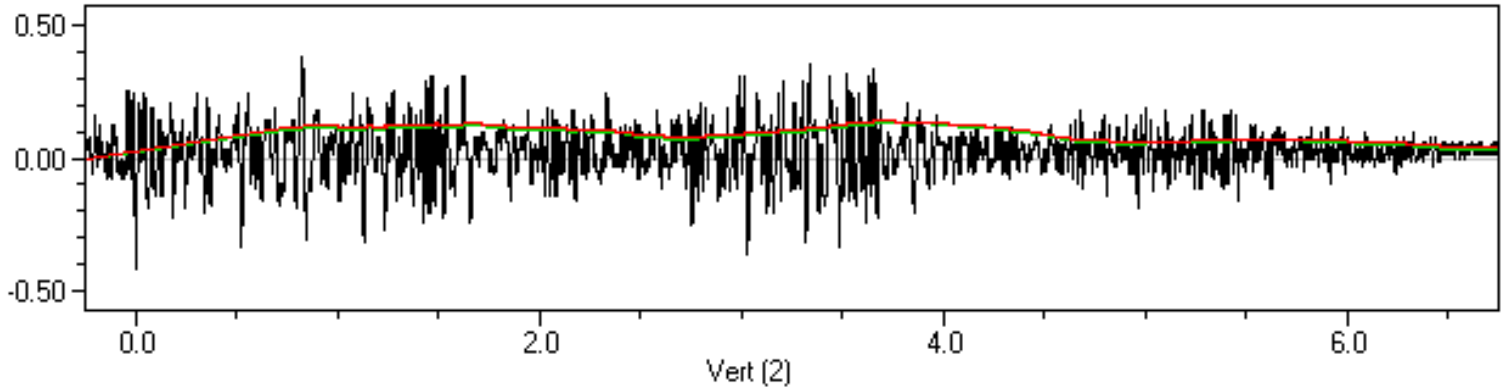
Record Time: 6.75 sec

Sample Rate: 1024 sps

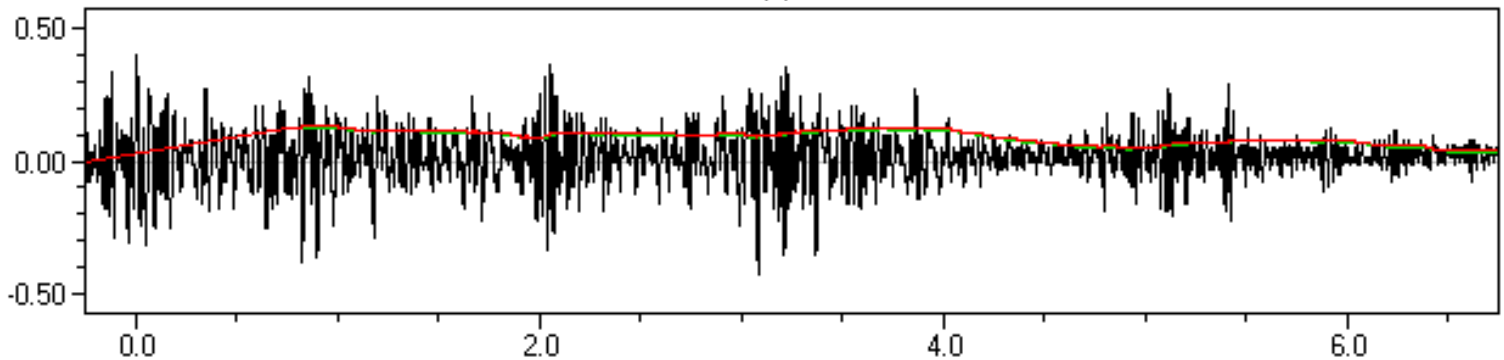
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.571	0.429	0.413	mm/s	
ZC Freq	15	30	30	Hz	
Time of Peak	3.038	3.084	0.001	Sec	
Peak Acceleration	0.0116	0.00994	0.00829	g	
Peak Displacement	0.00458	0.00281	0.00372	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,13	0,13		0,24
RMS (1s)	0,17	0,13	0,14		0,25

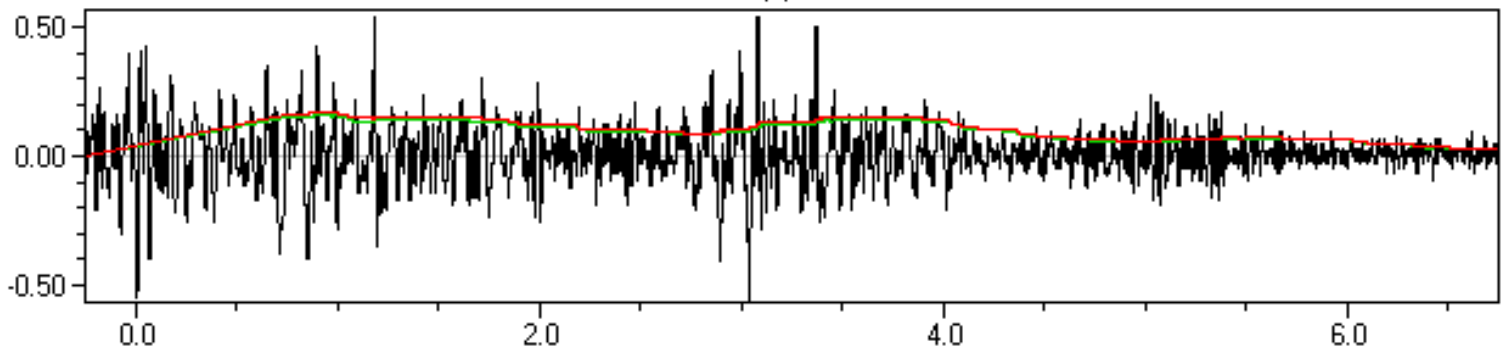
Long (1)



Vert (2)



Tran (3)





Event Date: January 4, 2007

Event Time: 15:30:21

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHID.QL0

Trigger: Long

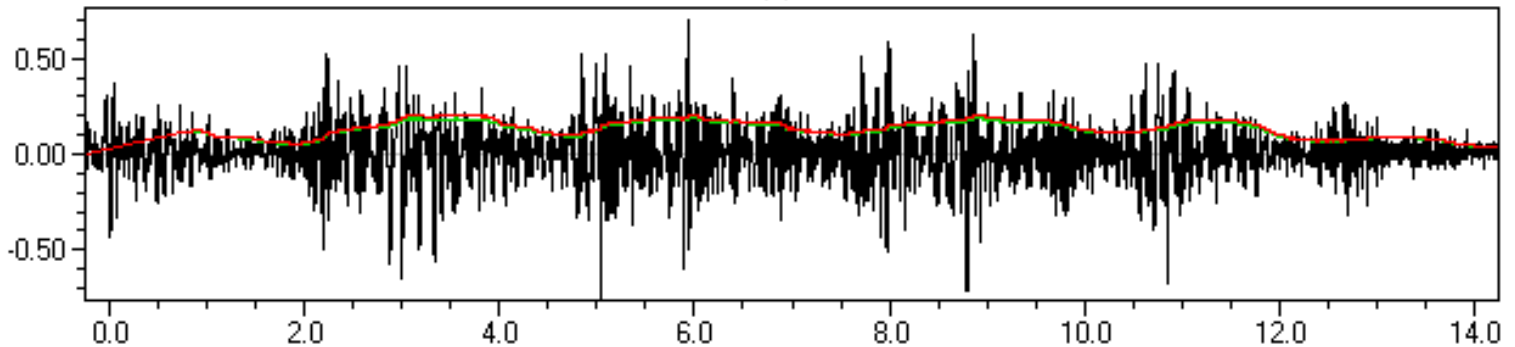
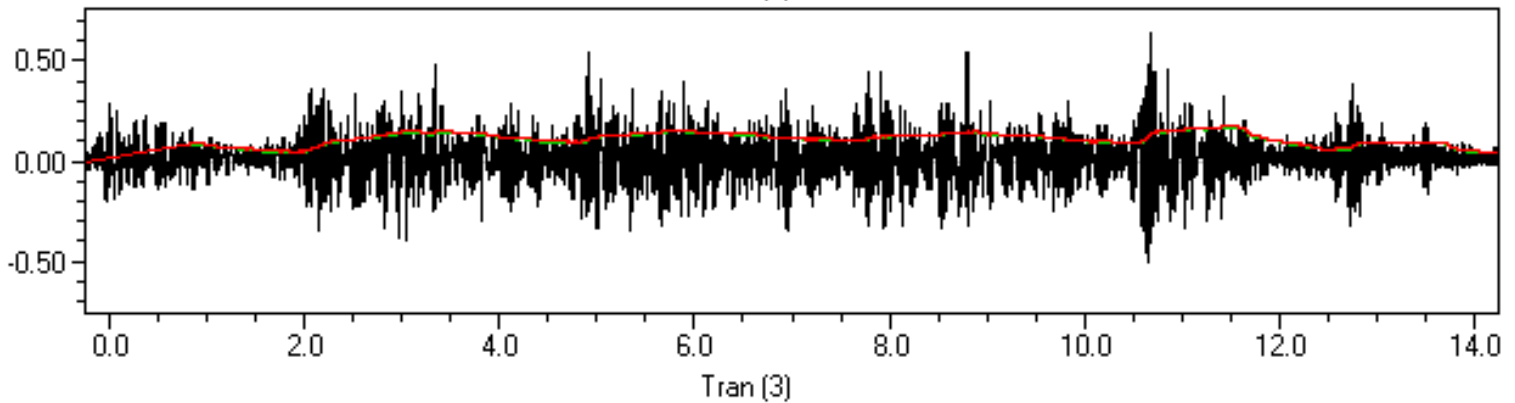
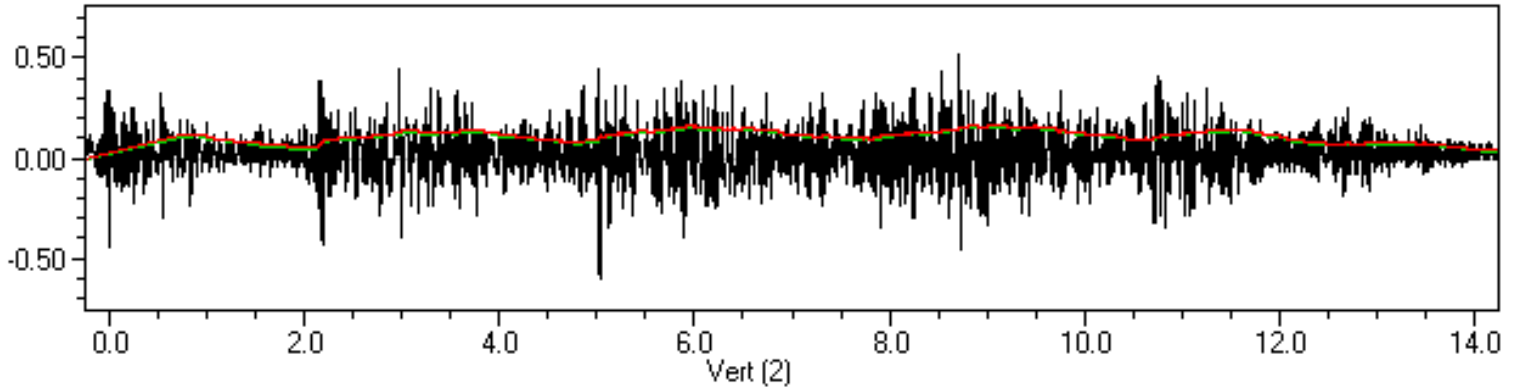
Record Time: 14.25 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.762	0.635	0.603	mm/s	
ZC Freq	26	37	32	Hz	
Time of Peak	5.037	10.671	5.028	Sec	
Peak Acceleration	0.0133	0.0149	0.0133	g	
Peak Displacement	0.00724	0.00419	0.00322	mm	rms of magnitude
RMS (1s fw 5.6)	0,19	0,17	0,16		0,29
RMS (1s)	0,21	0,17	0,16		0,30

Long (1)





Event Date: January 4, 2007

Event Time: 16:59:43

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHIH.VJ0

Trigger: Tran

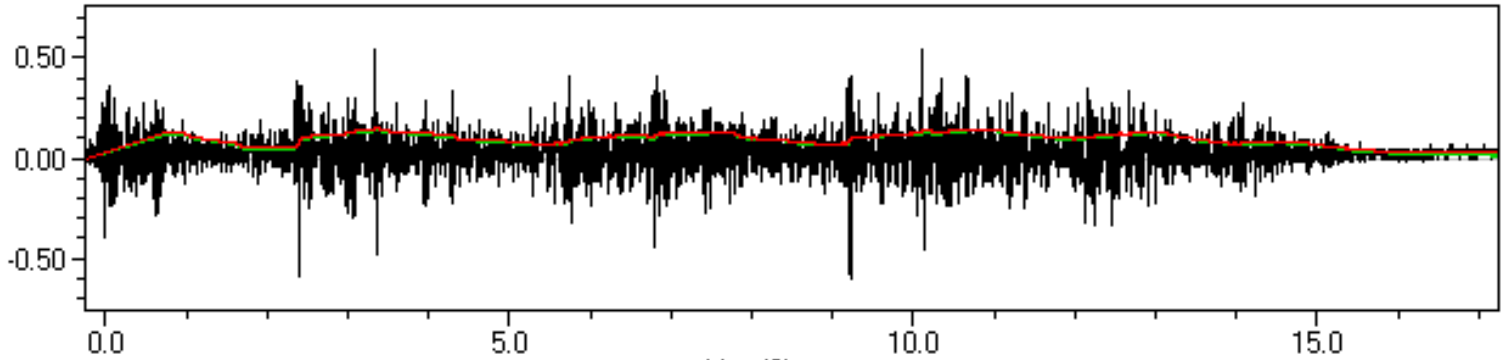
Record Time: 17.25 sec

Sample Rate: 1024 sps

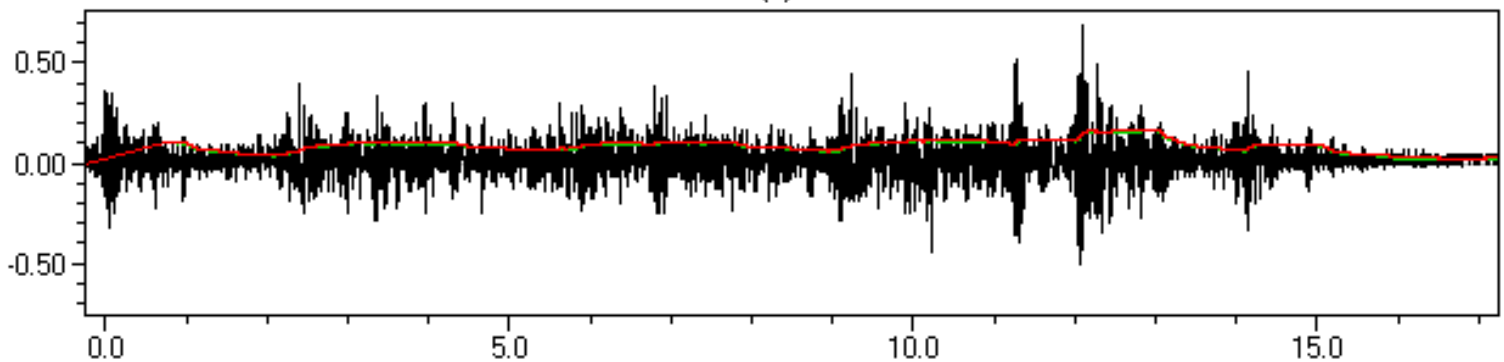
Calibration: April 25, 2006 by InstanTEL Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.762	0.683	0.603	mm/s	
ZC Freq	20	37	28	Hz	
Time of Peak	12.274	12.095	9.223	Sec	
Peak Acceleration	0.0133	0.0166	0.0116	g	
Peak Displacement	0.00566	0.00324	0.00355	mm	rms of magnitude
RMS (1s fw 5.6)	0,17	0,16	0,15		0,26
RMS (1s)	0,18	0,17	0,15		0,28

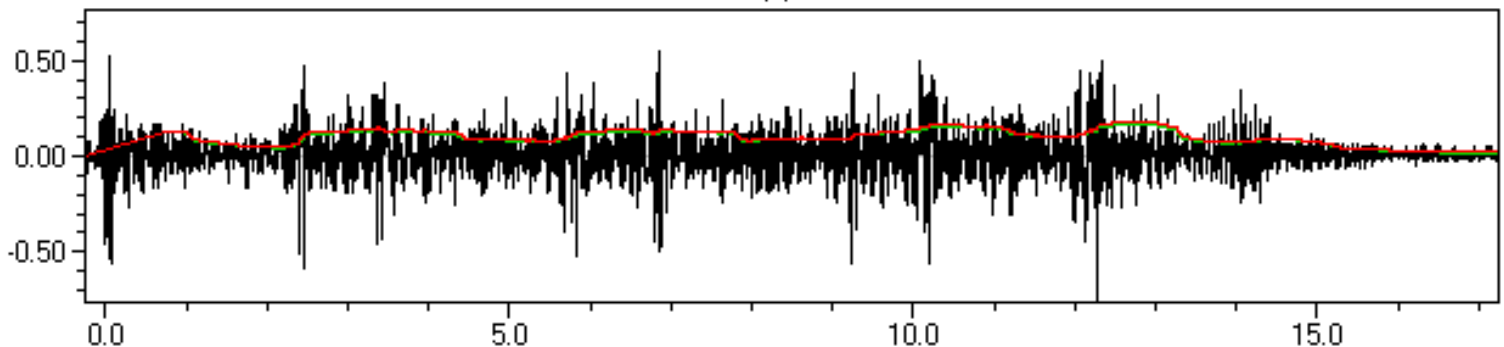
Long (1)



Vert (2)



Tran (3)





Event Date: January 4, 2007

Event Time: 17:30:16

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHIJ.AG0

Trigger: Long

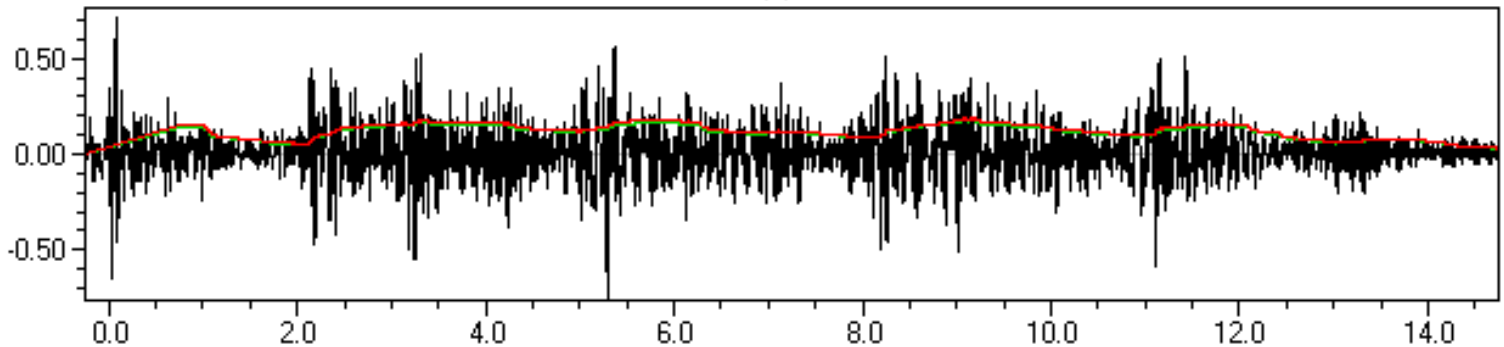
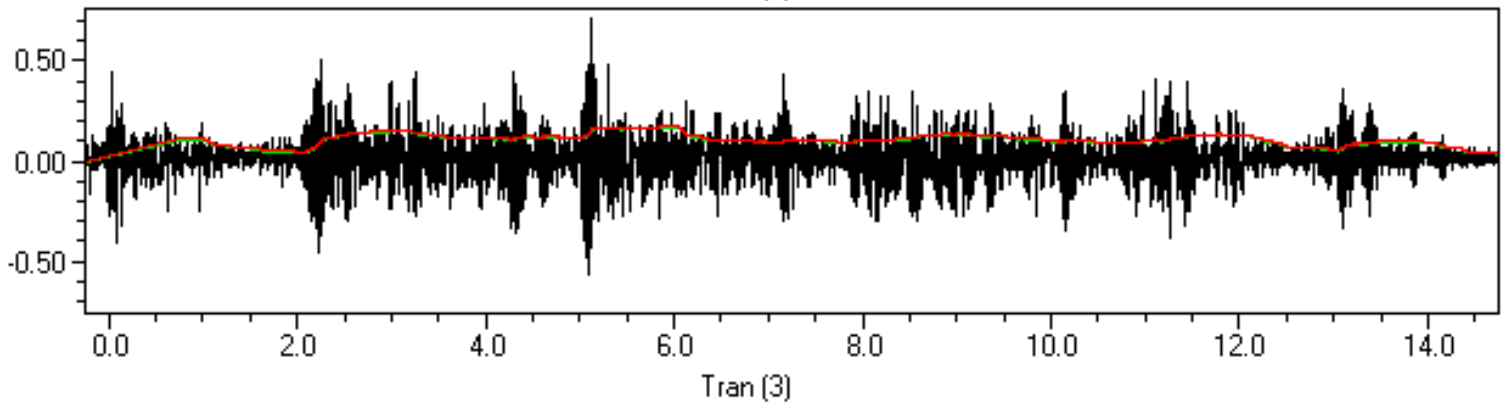
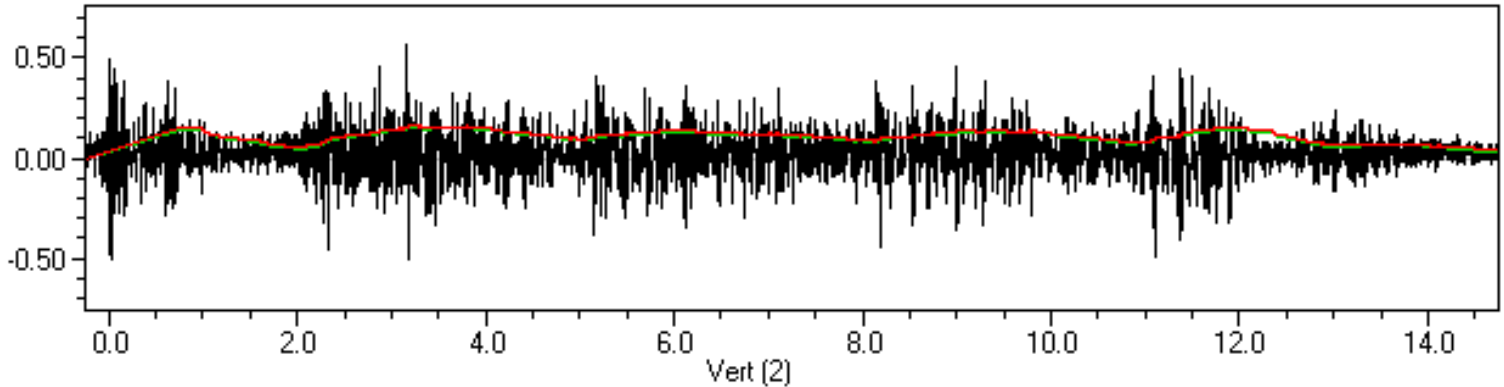
Record Time: 14.75 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.762	0.714	0.571	mm/s	
ZC Freq	22	37	28	Hz	
Time of Peak	5.290	5.112	3.164	Sec	
Peak Acceleration	0.0133	0.0166	0.0133	g	
Peak Displacement	0.00606	0.00305	0.00320	mm	rms of magnitude
RMS (1s fw 5.6)	0,17	0,17	0,16		0,27
RMS (1s)	0,19	0,17	0,16		0,29

Long (1)





Event Date: January 5, 2007

Event Time: 08:10:18

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHJO.160

Trigger: Long

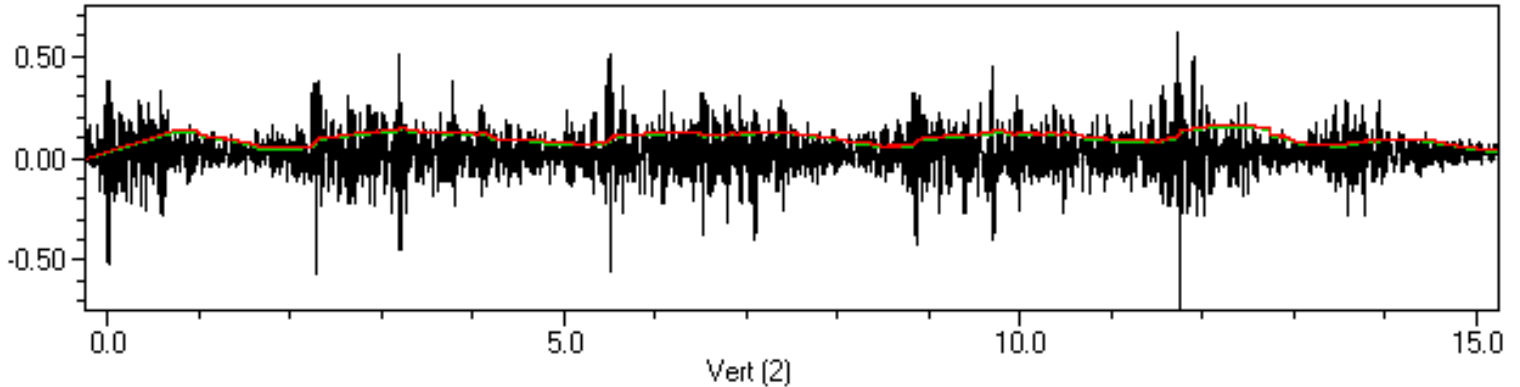
Record Time: 15.25 sec

Sample Rate: 1024 sps

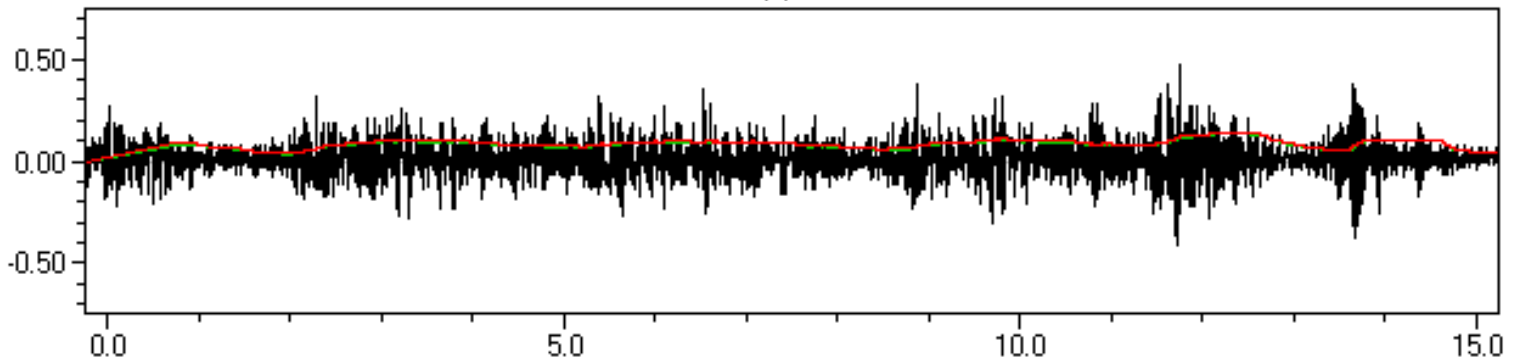
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.698	0.476	0.746	mm/s	
ZC Freq	23	27	32	Hz	
Time of Peak	11.755	11.751	11.748	Sec	
Peak Acceleration	0.0116	0.0116	0.0166	g	
Peak Displacement	0.00589	0.00270	0.00453	mm	rms of magnitude
RMS (1s fw 5.6)	0,17	0,14	0,15		0,26
RMS (1s)	0,18	0,14	0,16		0,28

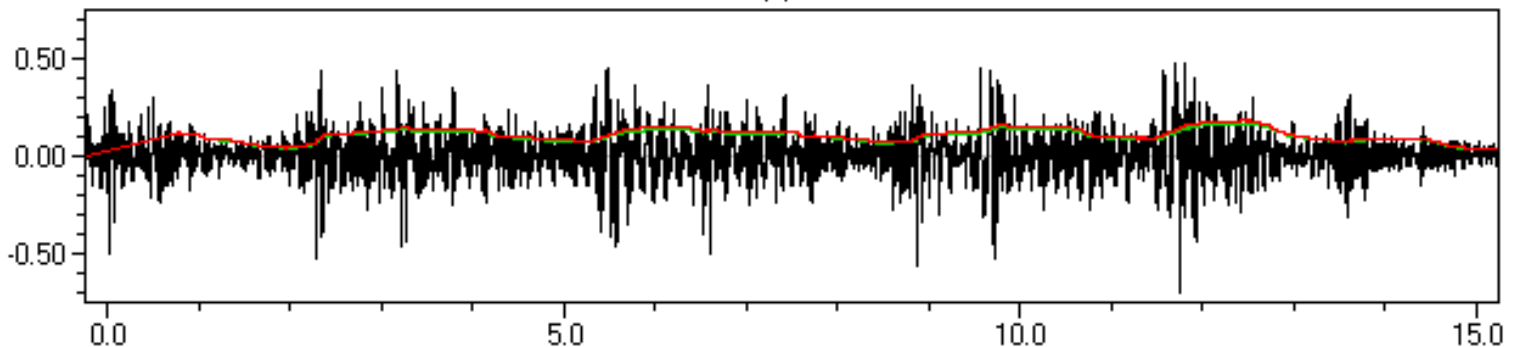
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 18:30:27

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHKG.QR0

Trigger: Long

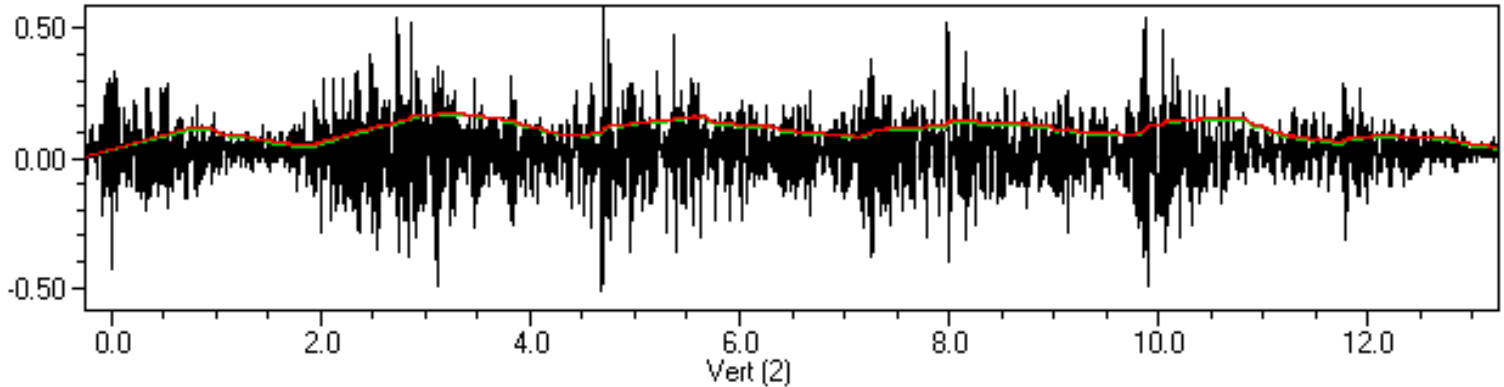
Record Time: 13.25 sec

Sample Rate: 1024 sps

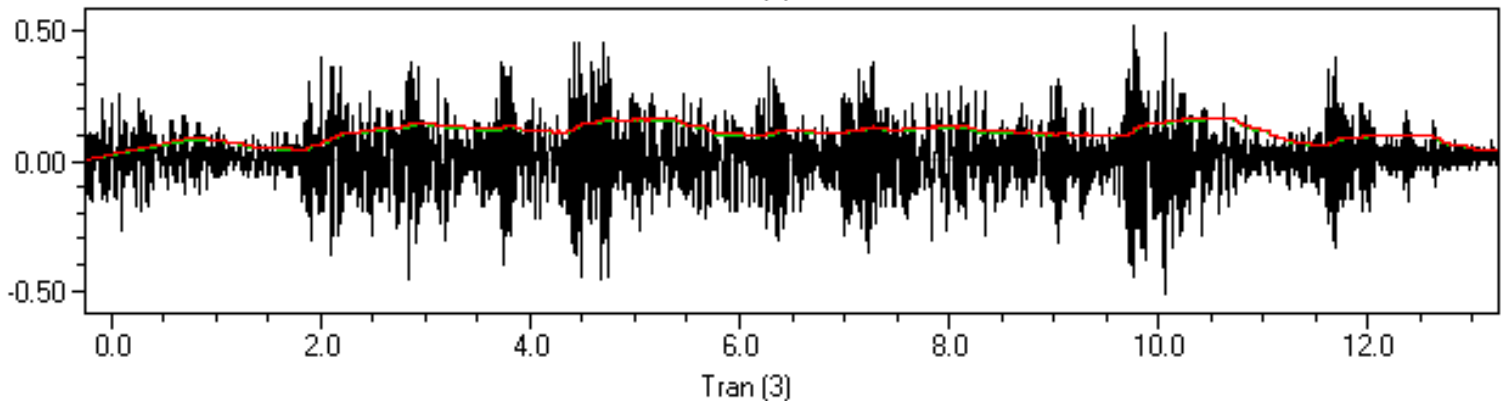
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.556	0.524	0.587	mm/s	
ZC Freq	30	34	30	Hz	
Time of Peak	10.054	9.771	4.701	Sec	
Peak Acceleration	0.0133	0.0116	0.0133	g	
Peak Displacement	0.00658	0.00311	0.00415	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,16	0,17		0,27
RMS (1s)	0,17	0,17	0,17		0,28

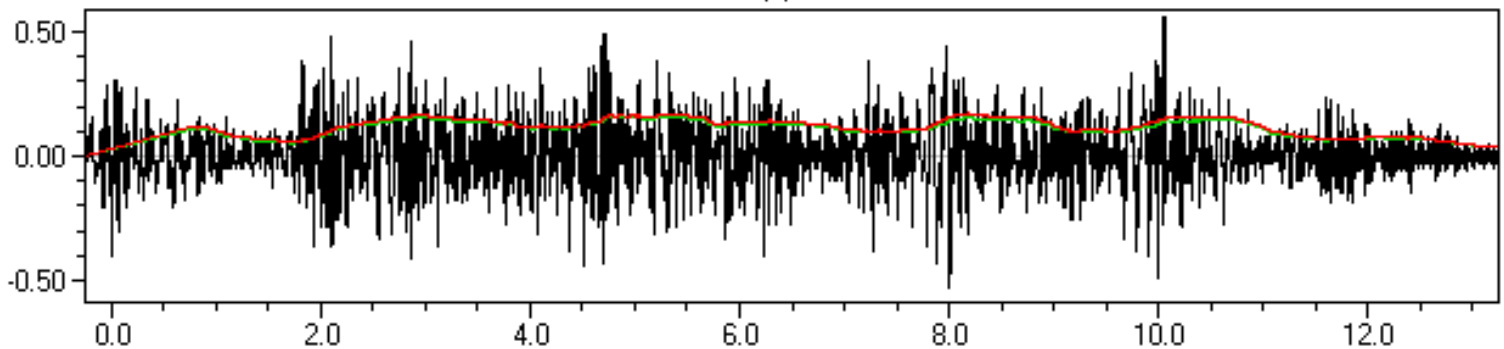
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 19:30:20

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHKJ.IK0

Trigger: Long

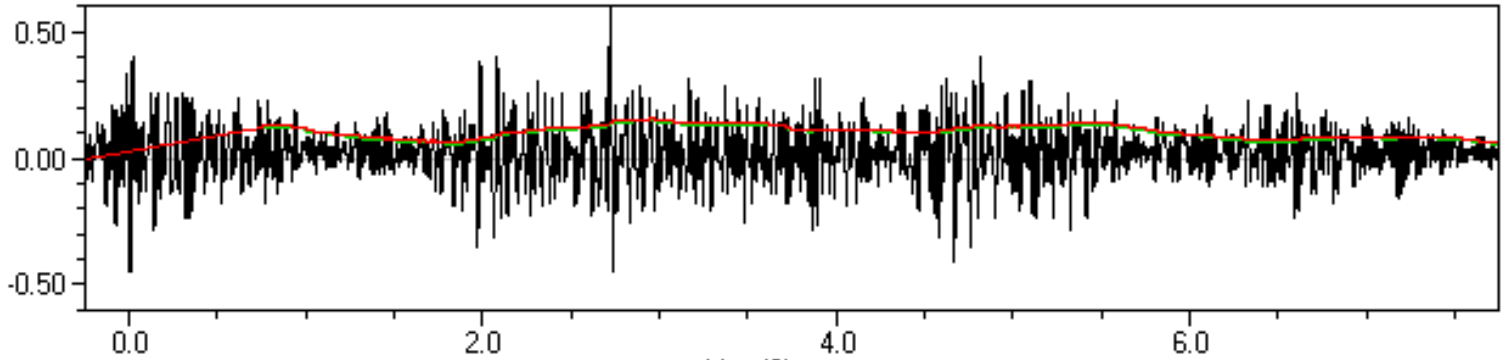
Record Time: 7.75 sec

Sample Rate: 1024 sps

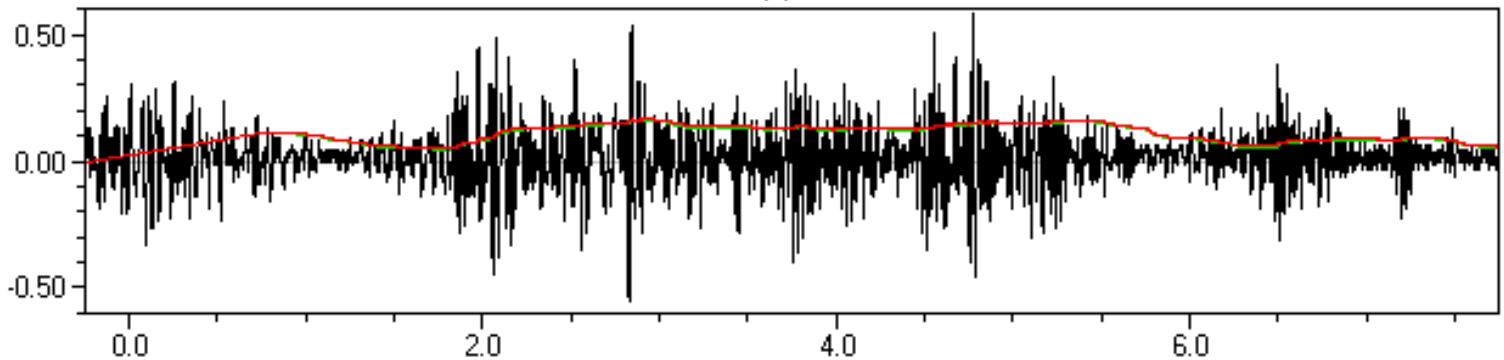
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.508	0.587	0.603	mm/s	
ZC Freq	8.4	32	26	Hz	
Time of Peak	4.633	4.772	2.721	Sec	
Peak Acceleration	0.0116	0.0149	0.0116	g	
Peak Displacement	0.00712	0.00299	0.00367	mm	rms of magnitude
RMS (1s fw 5.6)	0,18	0,16	0,15		0,28
RMS (1s)	0,19	0,17	0,16		0,30

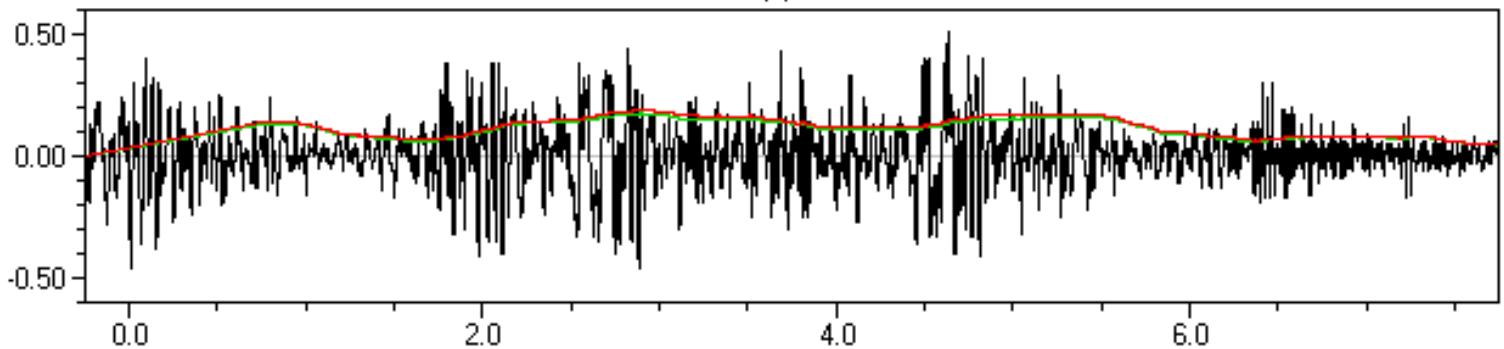
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 20:30:22

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHKM.AM0

Trigger: Long

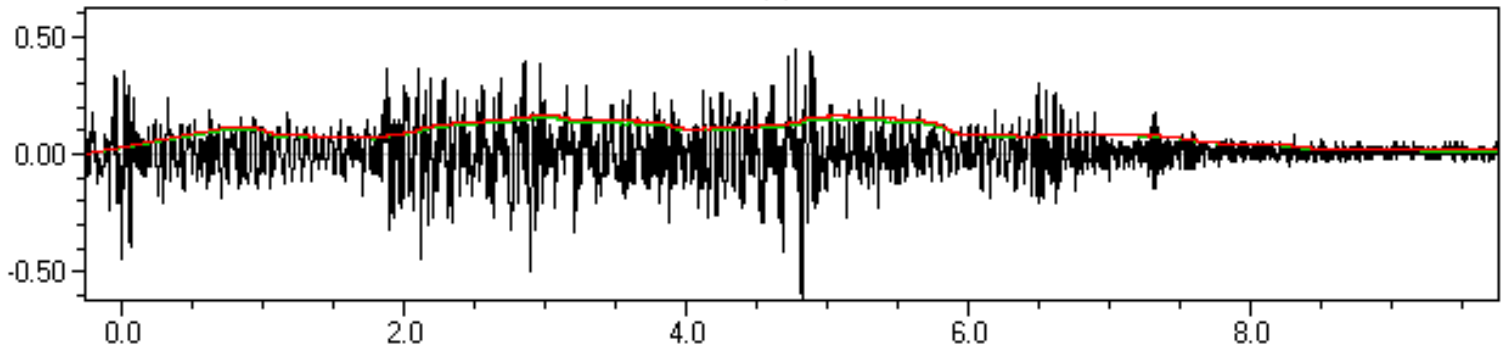
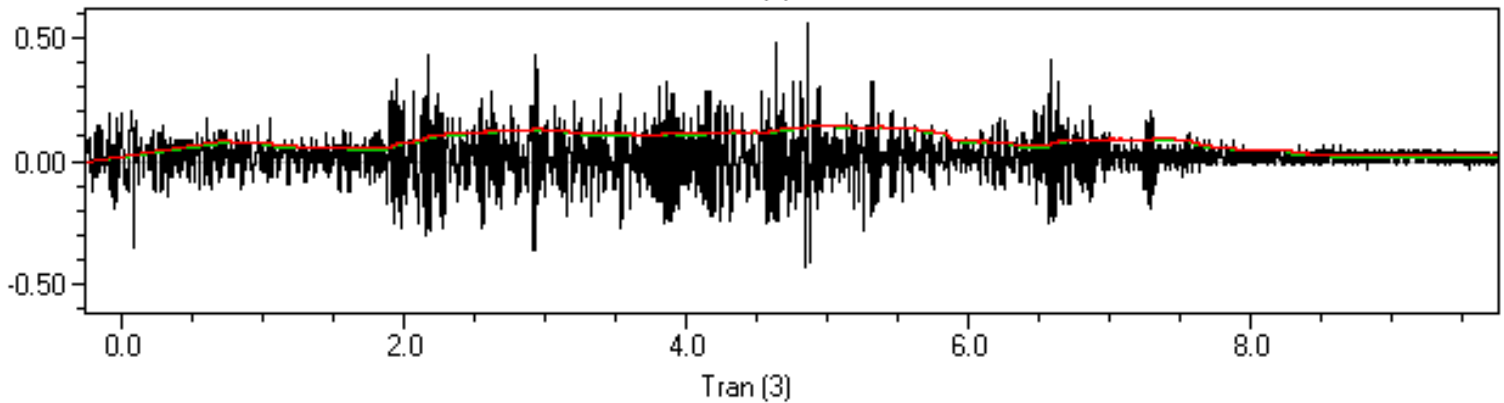
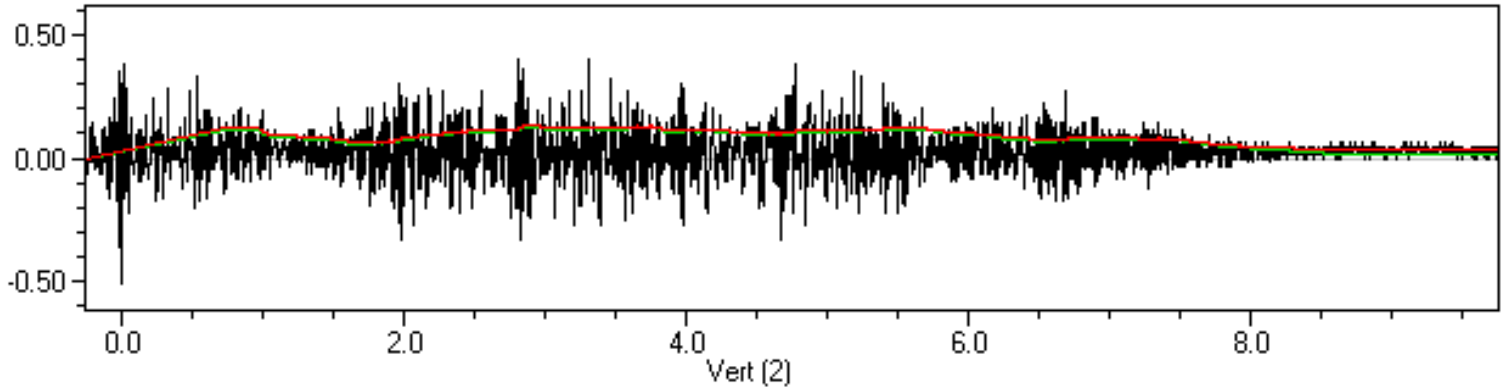
Record Time: 9.75 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.619	0.556	0.508	mm/s	
ZC Freq	21	34	28	Hz	
Time of Peak	4.819	4.863	0.002	Sec	
Peak Acceleration	0.00994	0.0133	0.0116	g	
Peak Displacement	0.00430	0.00288	0.00290	mm	rms of magnitude
RMS (1s fw 5.6)	0,15	0,14	0,13		0,23
RMS (1s)	0,17	0,15	0,13		0,25

Long (1)





Event Date: January 7, 2007

Event Time: 12:30:25

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHNP.EP0

Trigger: Tran

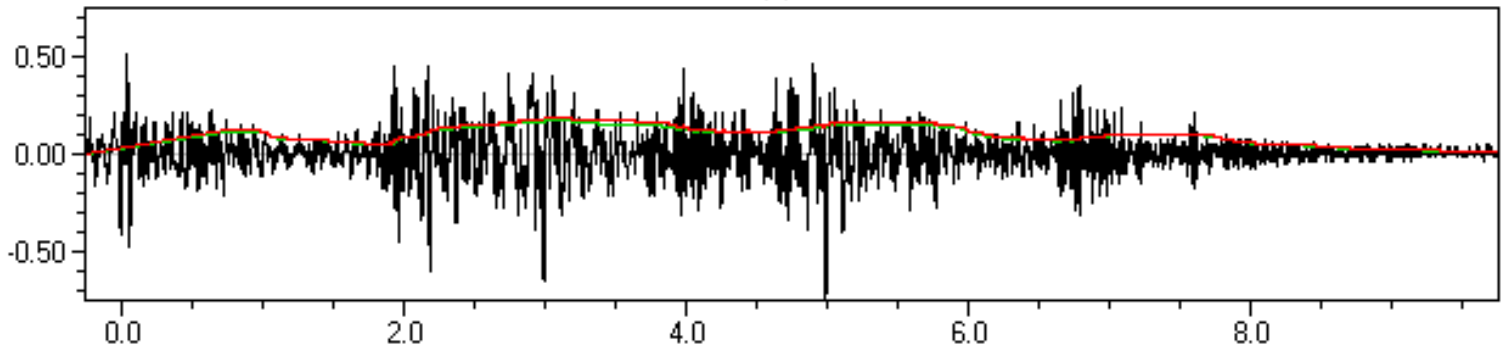
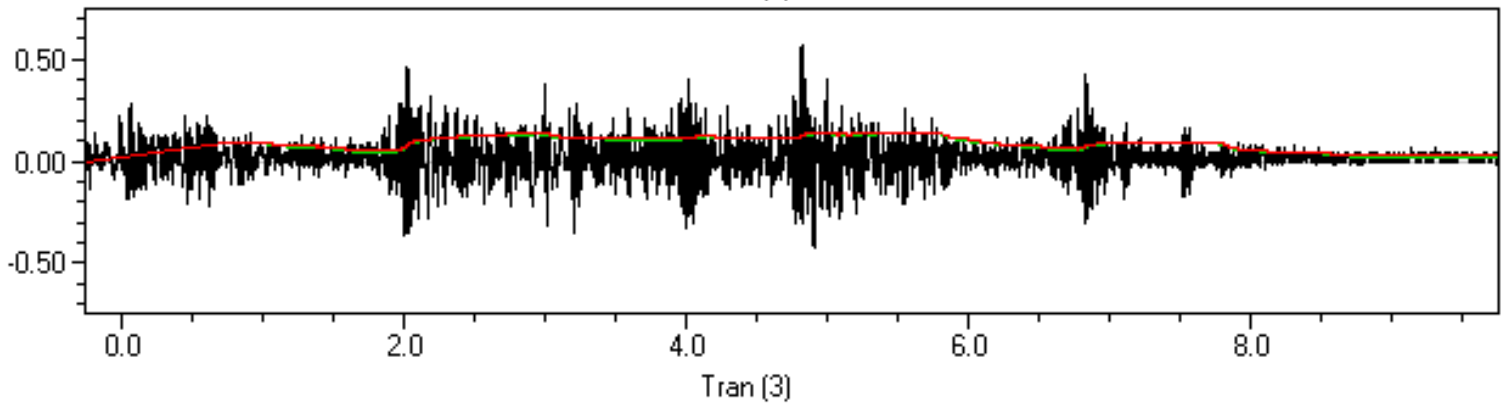
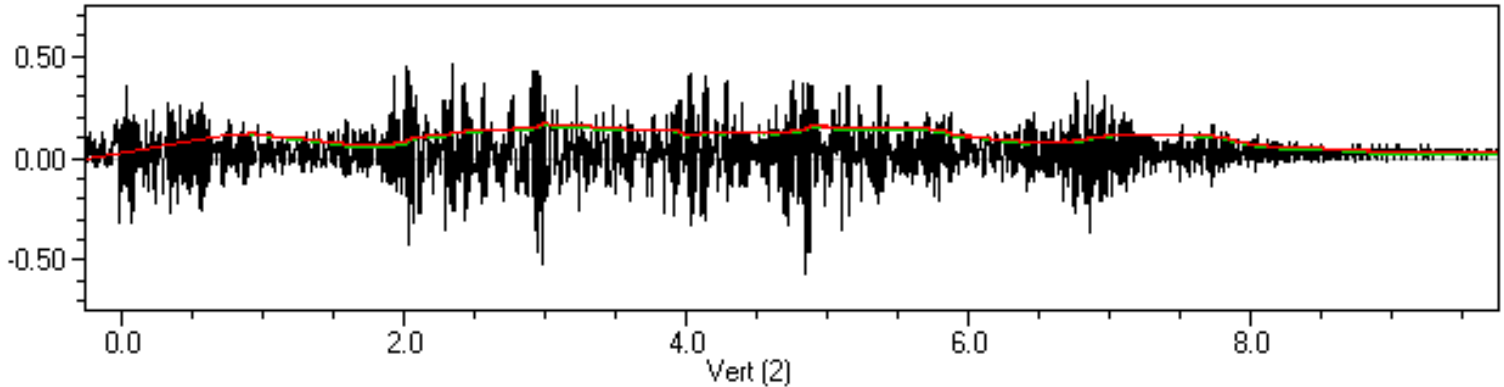
Record Time: 9.75 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.746	0.571	0.571	mm/s	
ZC Freq	17	37	34	Hz	
Time of Peak	4.988	4.818	4.845	Sec	
Peak Acceleration	0.0133	0.0133	0.0133	g	
Peak Displacement	0.00657	0.00262	0.00360	mm	rms of magnitude
RMS (1s fw 5.6)	0,18	0,14	0,16		0,27
RMS (1s)	0,19	0,14	0,17		0,28

Long (1)





Event Date: January 7, 2007

Event Time: 16:30:22

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHO0.IM0

Trigger: Tran

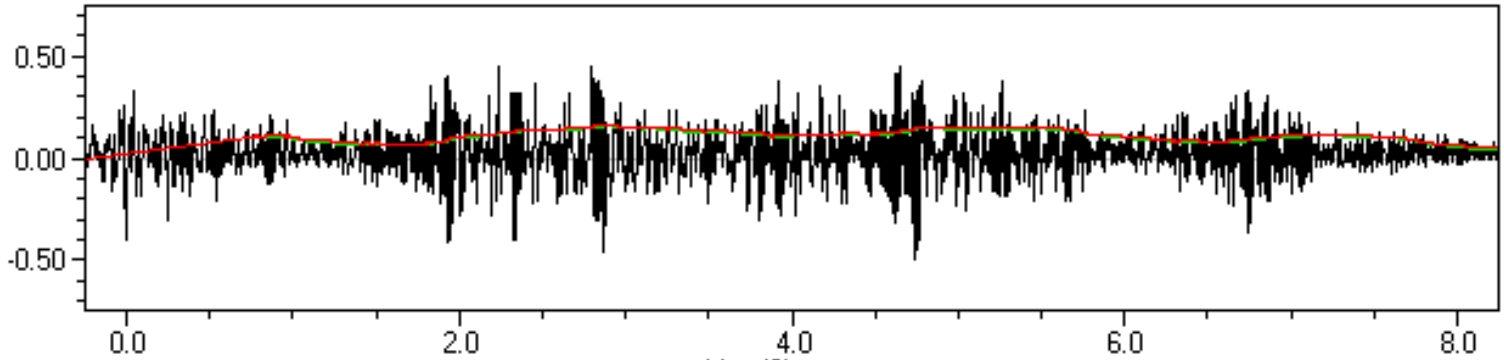
Record Time: 8.25 sec

Sample Rate: 1024 sps

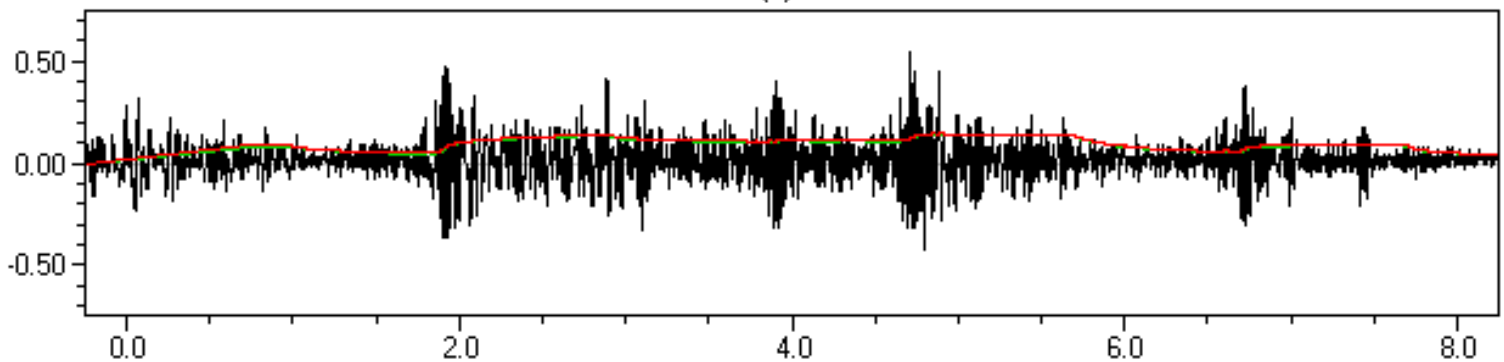
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.746	0.540	0.492	mm/s	
ZC Freq	18	34	32	Hz	
Time of Peak	4.877	4.707	4.734	Sec	
Peak Acceleration	0.0182	0.0133	0.0133	g	
Peak Displacement	0.00575	0.00283	0.00373	mm	rms of magnitude
RMS (1s fw 5.6)	0,19	0,14	0,16		0,27
RMS (1s)	0,20	0,15	0,16		0,29

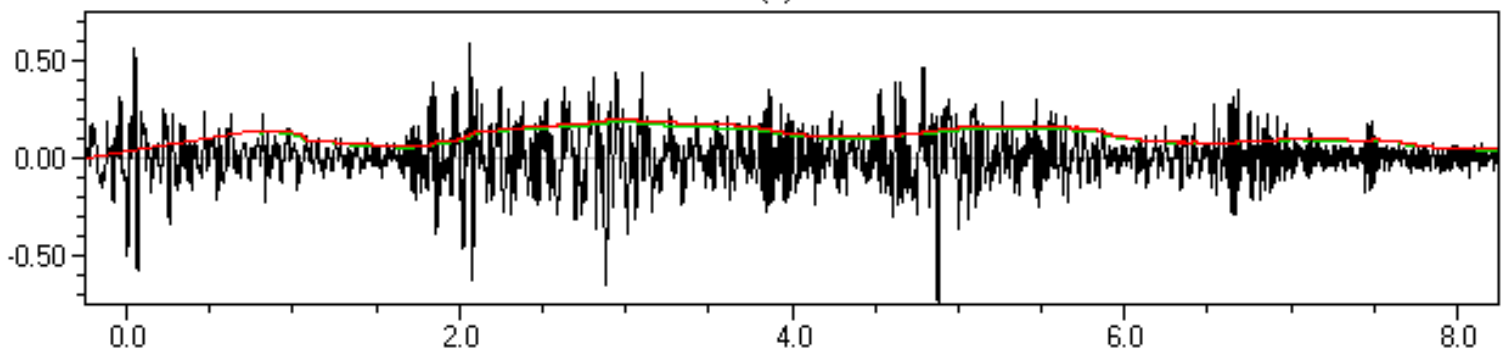
Long (1)



Vert (2)



Tran (3)





Event Date: January 8, 2007

Event Time: 09:30:40

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHPB.R40

Trigger: Long

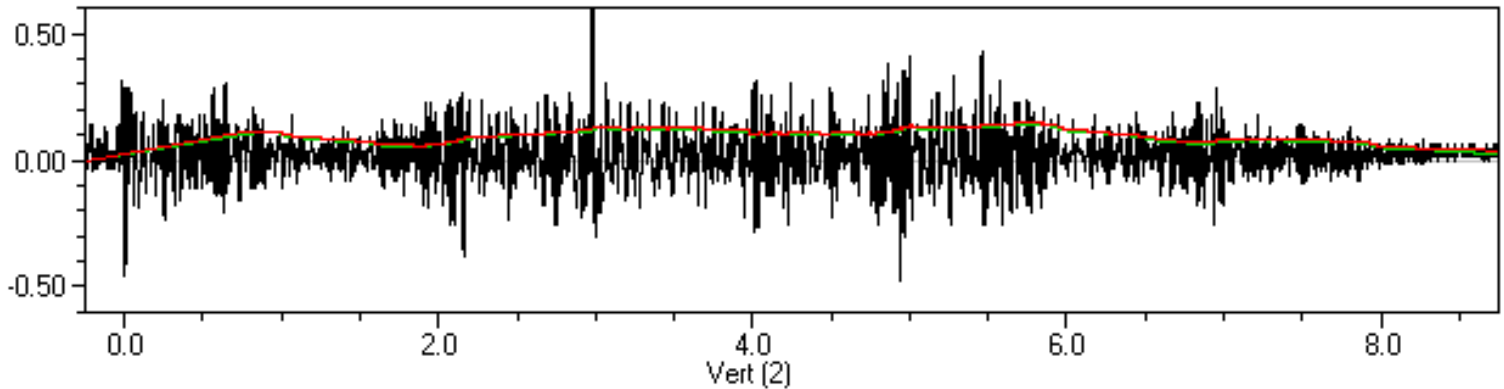
Record Time: 8.75 sec

Sample Rate: 1024 sps

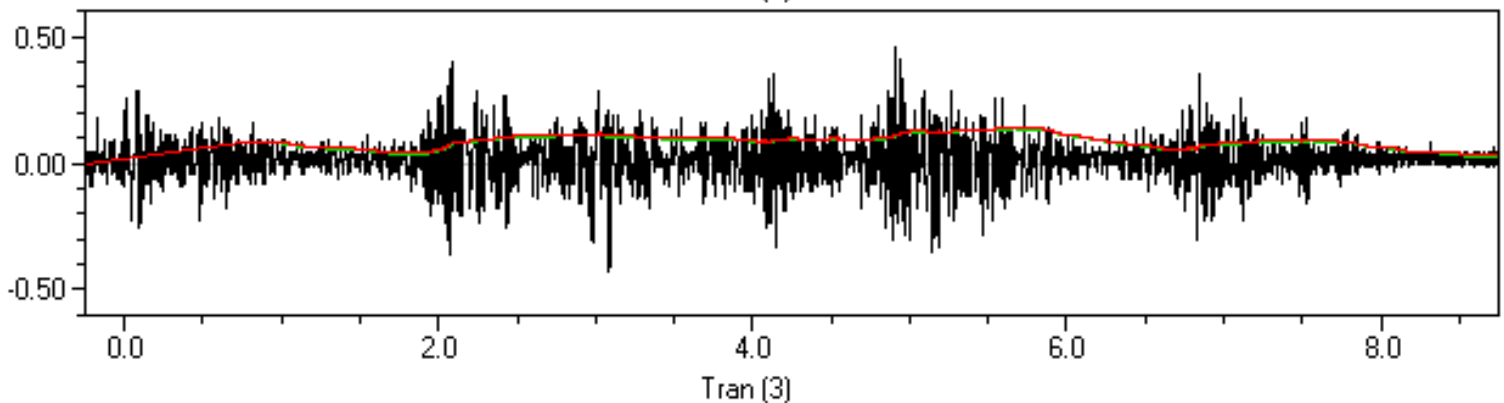
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.556	0.460	0.603	mm/s	
ZC Freq	21	34	23	Hz	
Time of Peak	3.007	4.909	2.978	Sec	
Peak Acceleration	0.0116	0.0116	0.0116	g	
Peak Displacement	0.00711	0.00246	0.00374	mm	rms of magnitude
RMS (1s fw 5.6)	0,15	0,14	0,14		0,24
RMS (1s)	0,17	0,14	0,15		0,26

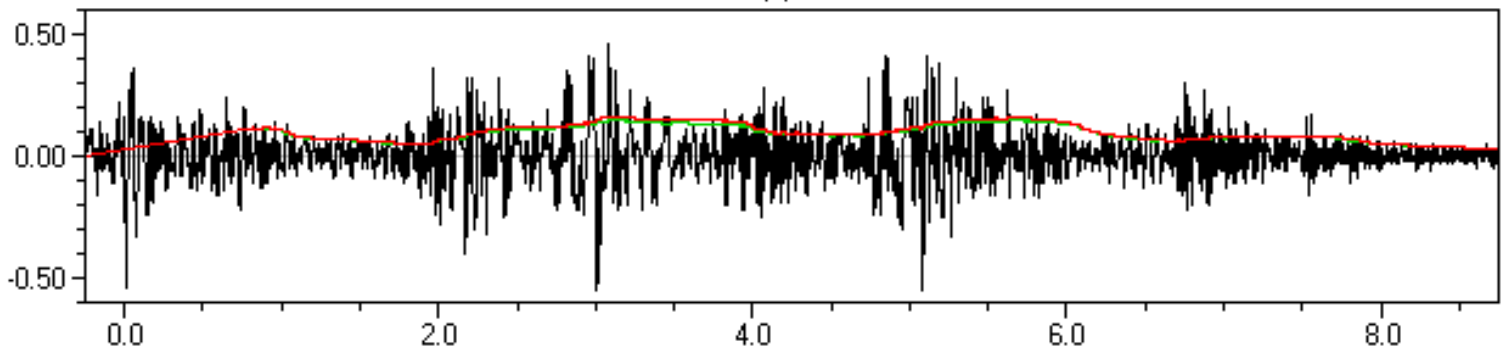
Long (1)



Vert (2)



Tran (3)





Event Date: January 8, 2007

Event Time: 22:30:38

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHQB.V20

Trigger: Long

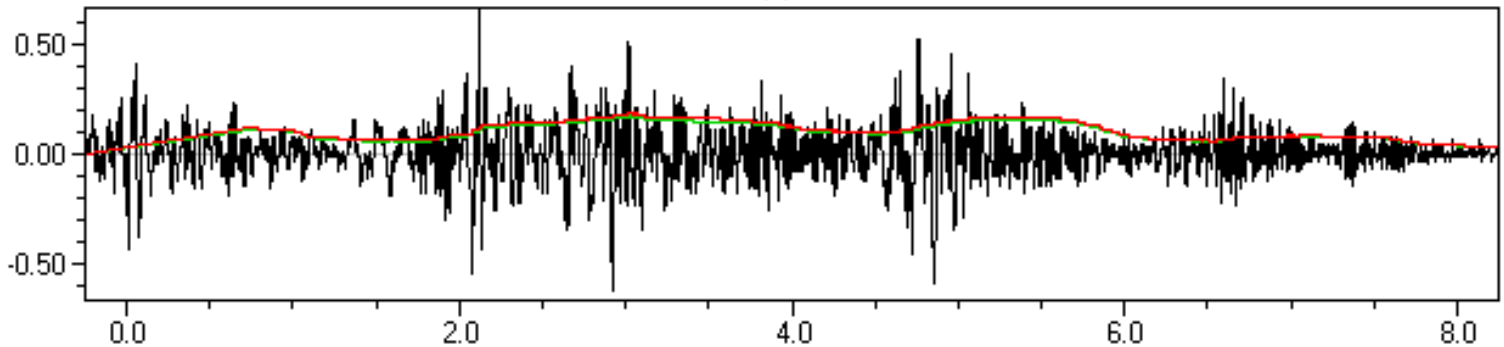
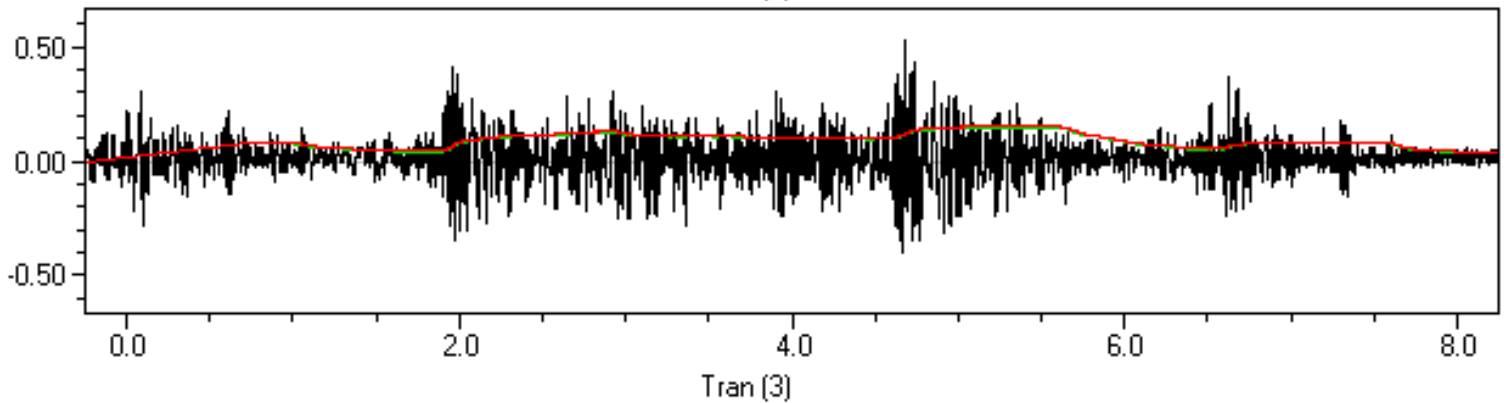
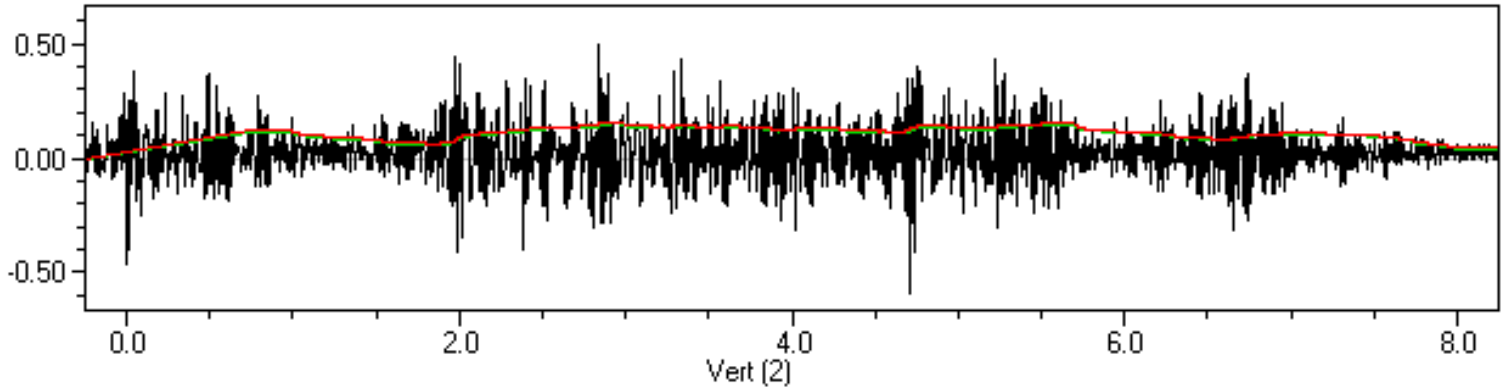
Record Time: 8.25 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.667	0.524	0.587	mm/s	
ZC Freq	27	34	37	Hz	
Time of Peak	2.118	4.682	4.712	Sec	
Peak Acceleration	0.0133	0.0149	0.0133	g	
Peak Displacement	0.00566	0.00241	0.00293	mm	rms of magnitude
RMS (1s fw 5.6)	0,17	0,15	0,15		0,26
RMS (1s)	0,19	0,15	0,16		0,27

Long (1)





Event Date: January 9, 2007

Event Time: 08:10:18

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHR2.P60

Trigger: Long

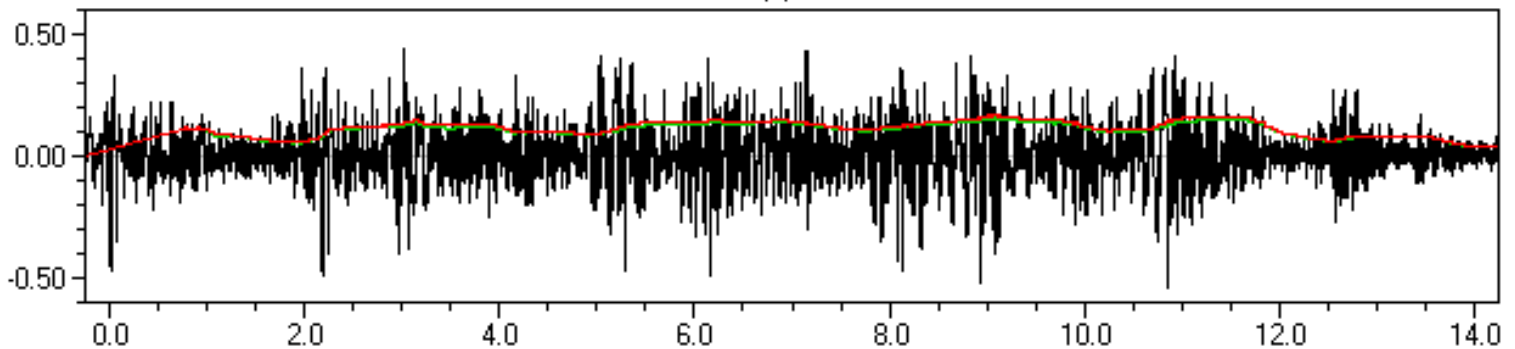
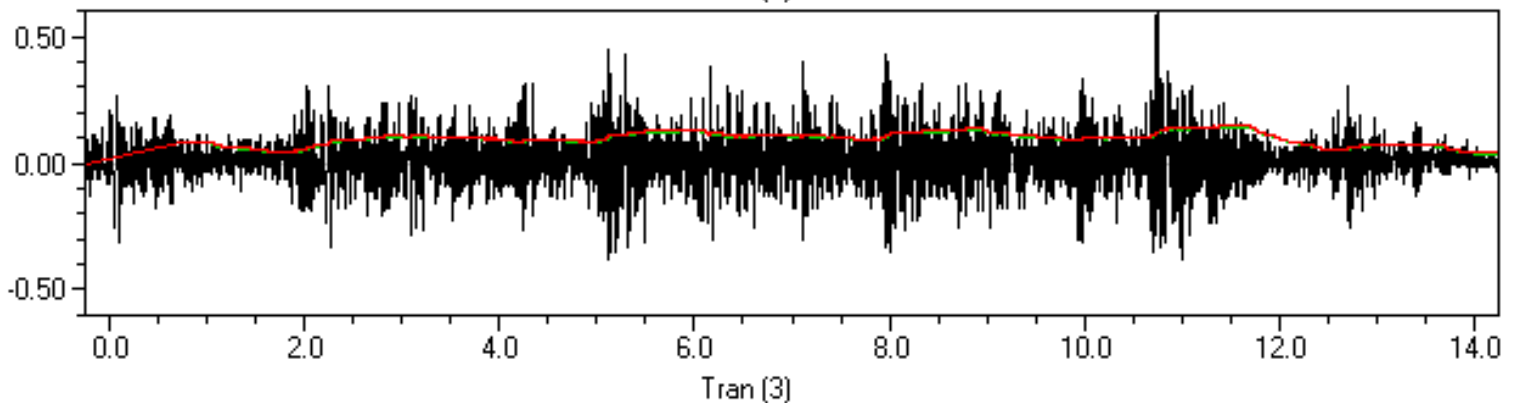
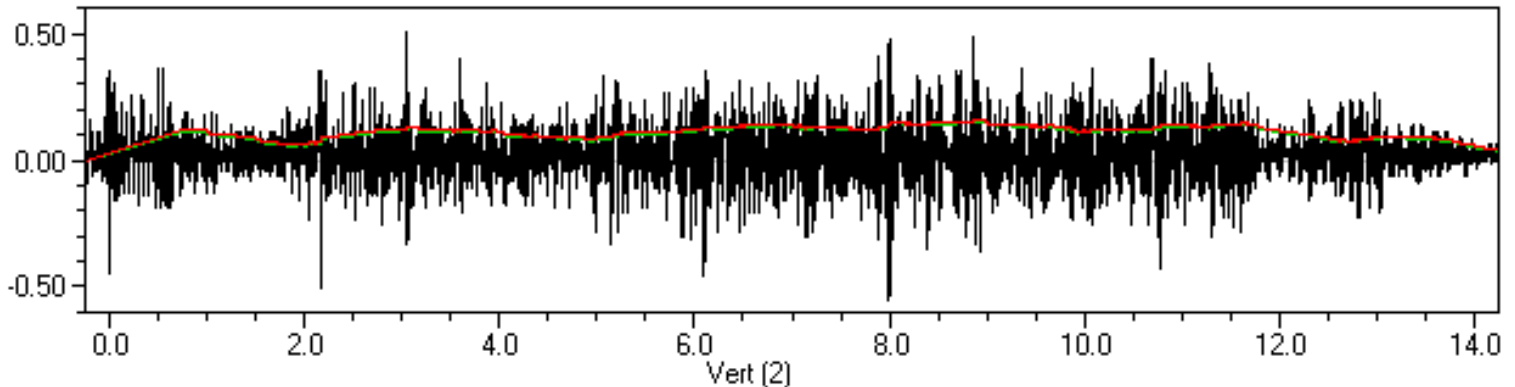
Record Time: 14.25 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.540	0.603	0.556	mm/s	
ZC Freq	18	32	39	Hz	
Time of Peak	10.857	10.743	7.996	Sec	
Peak Acceleration	0.0116	0.0133	0.0149	g	
Peak Displacement	0.00626	0.00274	0.00353	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,15	0,16		0,25
RMS (1s)	0,17	0,15	0,16		0,27

Long (1)





Event Date: January 9, 2007

Event Time: 09:30:43

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHR6.F70

Trigger: Long

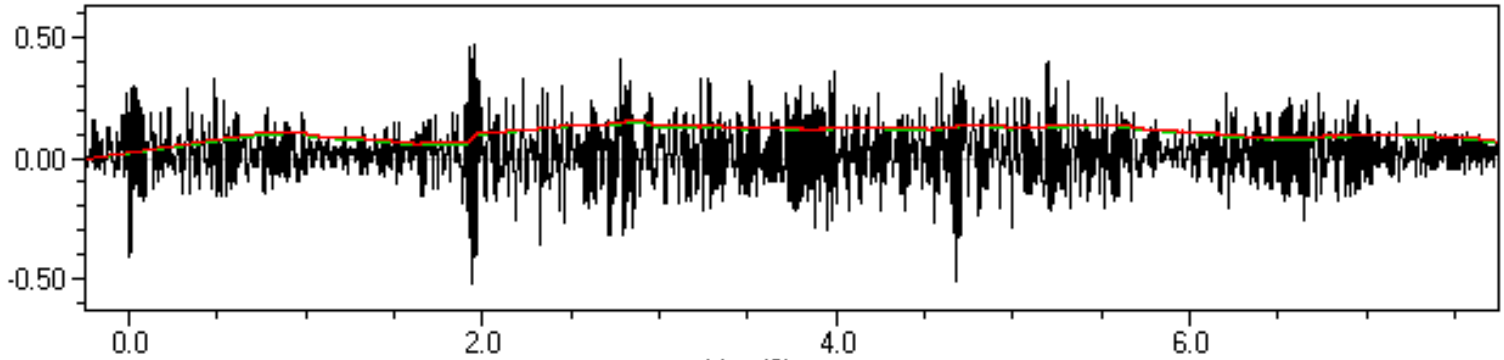
Record Time: 7.75 sec

Sample Rate: 1024 sps

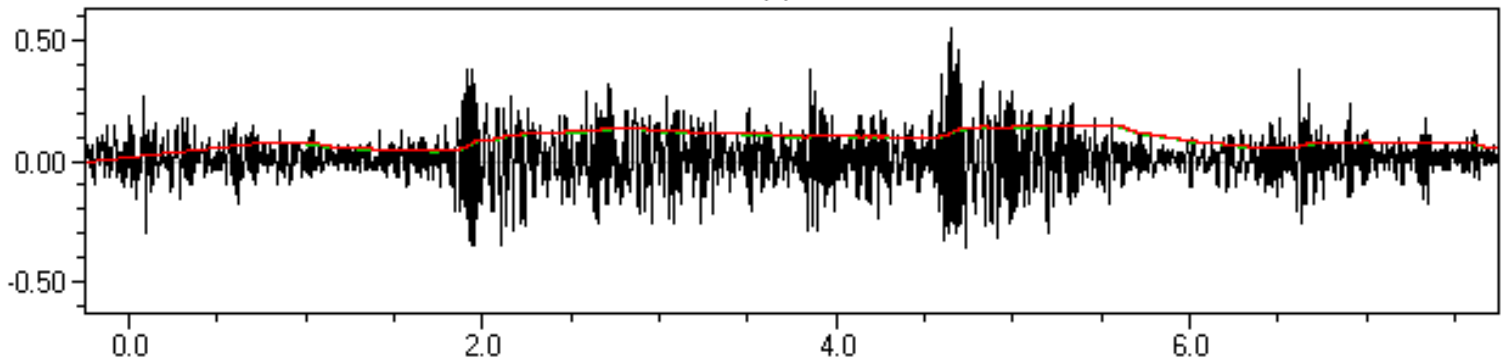
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.635	0.556	0.524	mm/s	
ZC Freq	19	34	39	Hz	
Time of Peak	4.814	4.646	1.935	Sec	
Peak Acceleration	0.0116	0.0133	0.0149	g	
Peak Displacement	0.00479	0.00270	0.00299	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,15	0,15		0,26
RMS (1s)	0,17	0,15	0,16		0,27

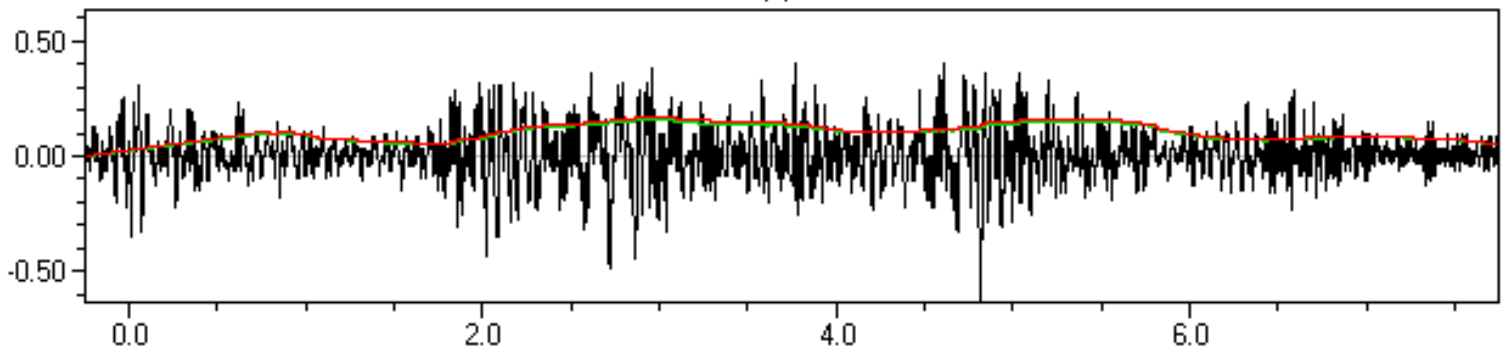
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 13:30:10

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHRH.IA0

Trigger: Tran

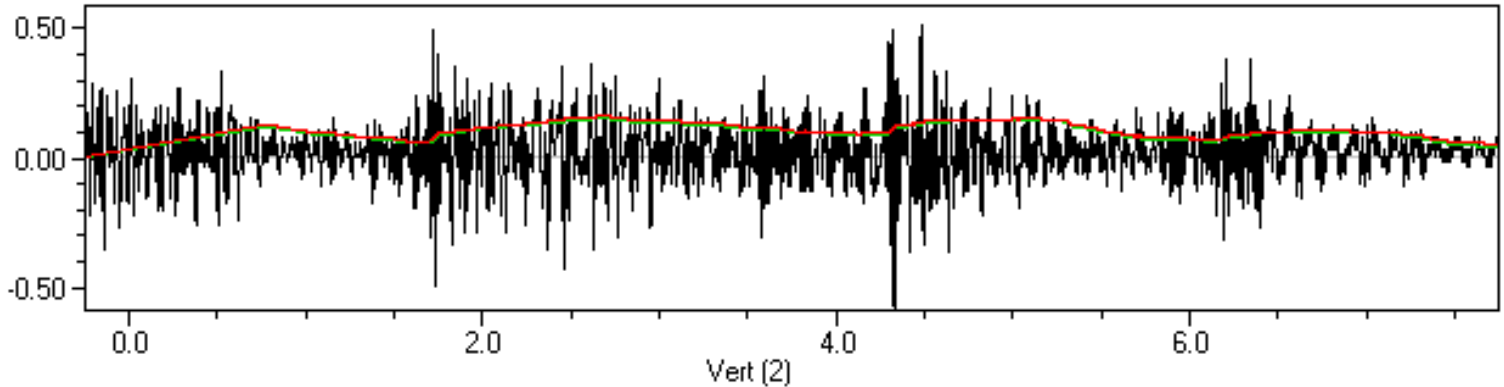
Record Time: 7.75 sec

Sample Rate: 1024 sps

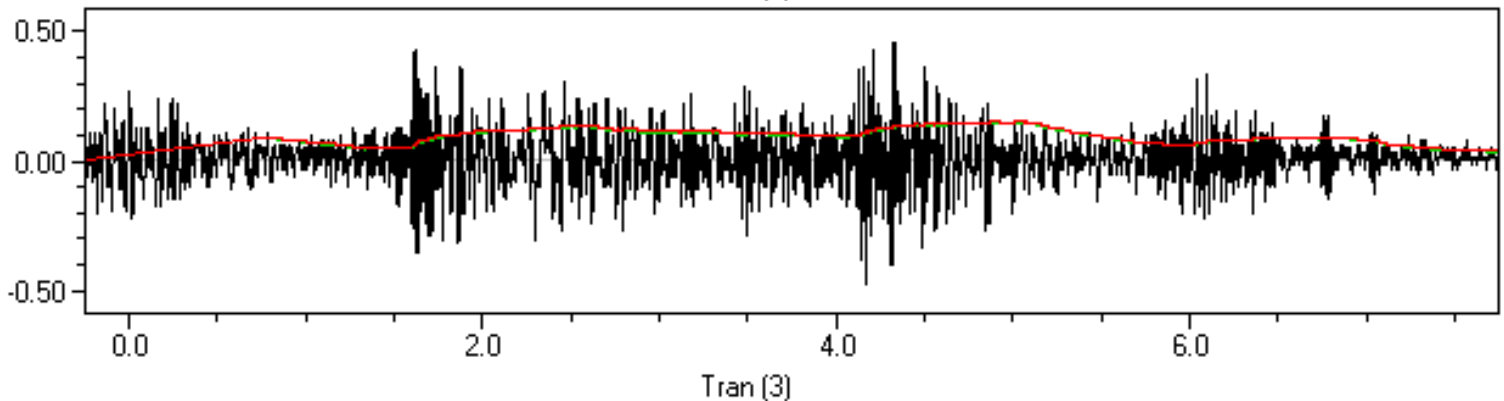
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.492	0.476	0.587	mm/s	
ZC Freq	8.4	32	34	Hz	
Time of Peak	2.347	4.166	4.328	Sec	
Peak Acceleration	0.0116	0.0149	0.0149	g	
Peak Displacement	0.00612	0.00340	0.00330	mm	rms of magnitude
RMS (1s fw 5.6)	0,14	0,15	0,15		0,25
RMS (1s)	0,15	0,15	0,16		0,26

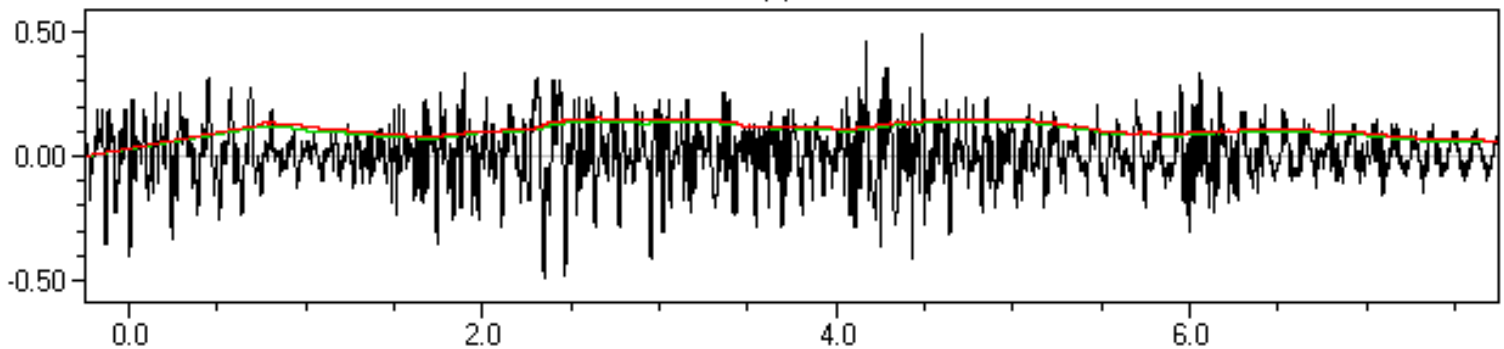
Long (1)



Vert (2)



Tran (3)





Event Date: December 30, 2006

Event Time: 14:33:28

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BH91.RS0

Trigger: Long

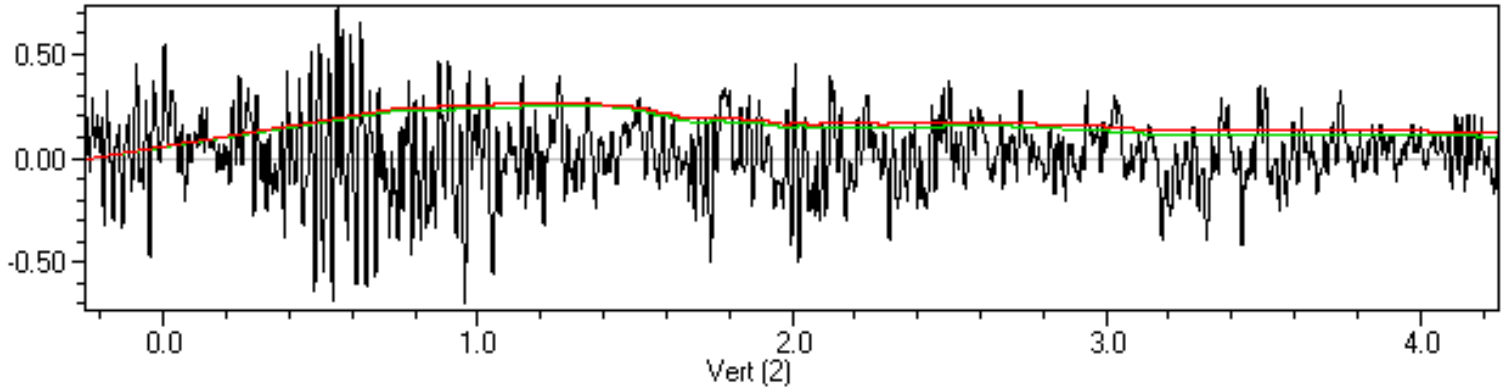
Record Time: 4.25 sec

Sample Rate: 1024 sps

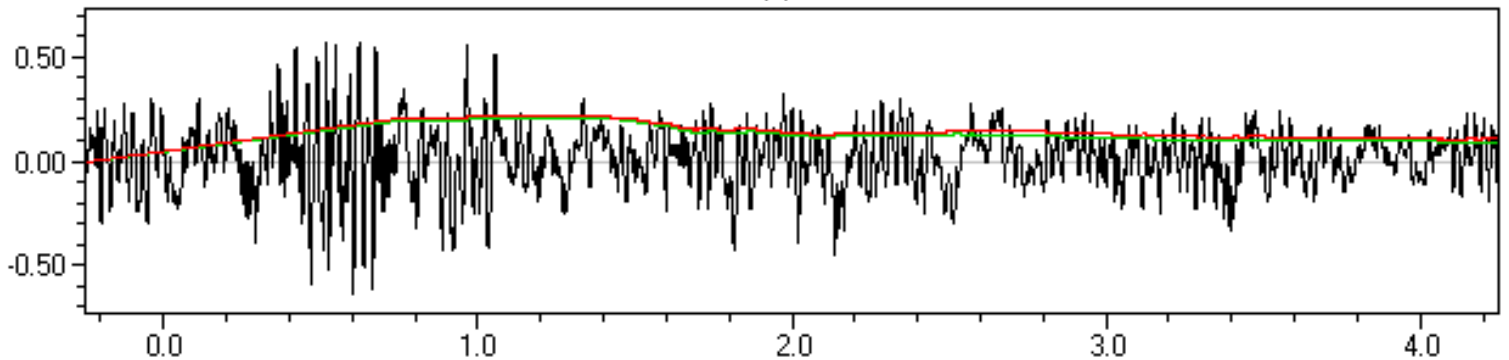
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.651	0.635	0.730	mm/s	
ZC Freq	47	37	37	Hz	
Time of Peak	0.653	0.604	0.551	Sec	
Peak Acceleration	0.0232	0.0232	0.0199	g	
Peak Displacement	0.00437	0.00537	0.00638	mm	rms of magnitude
RMS (1s fw 5.6)	0,18	0,21	0,25		0,37
RMS (1s)	0,19	0,22	0,26		0,39

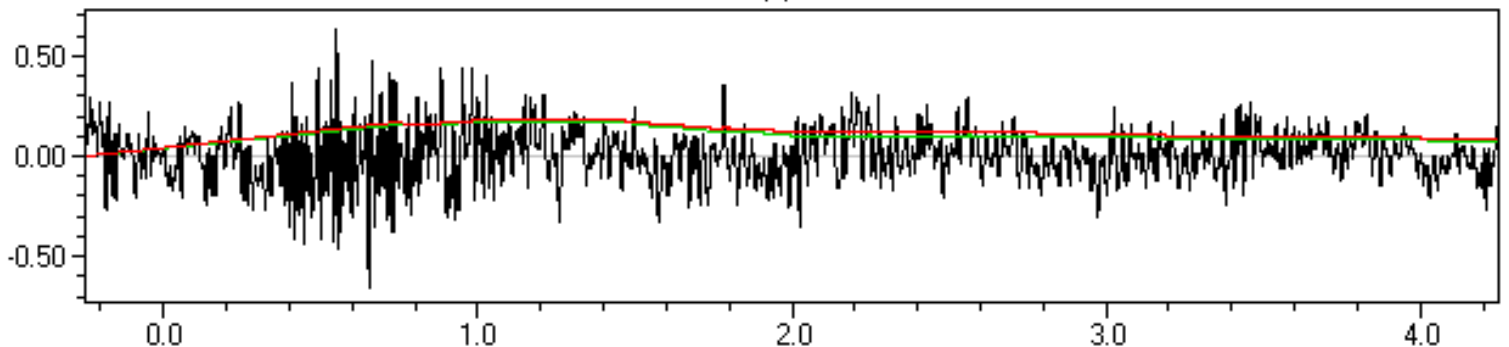
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 20:45:04

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHBD.N40

Trigger: Long

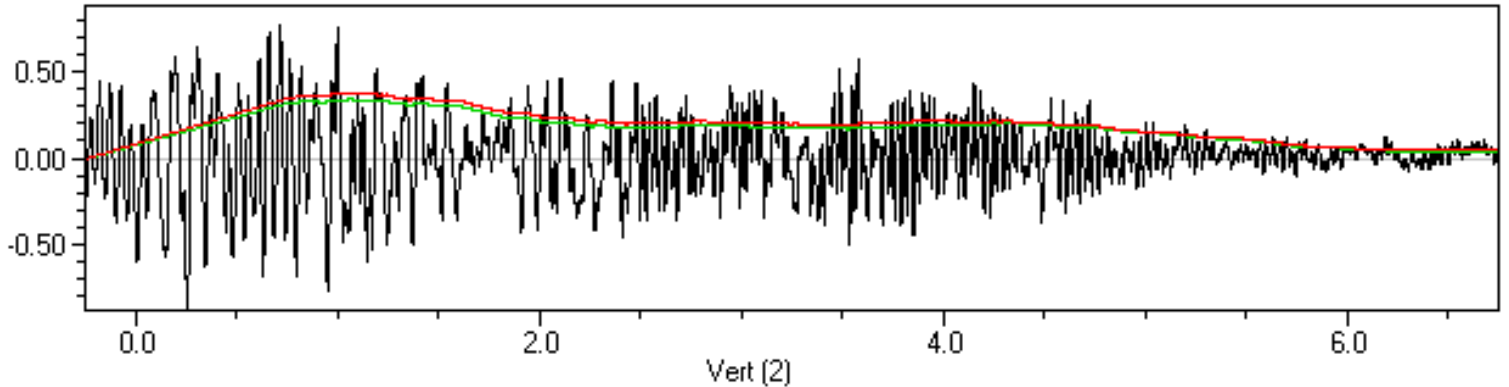
Record Time: 6.75 sec

Sample Rate: 1024 sps

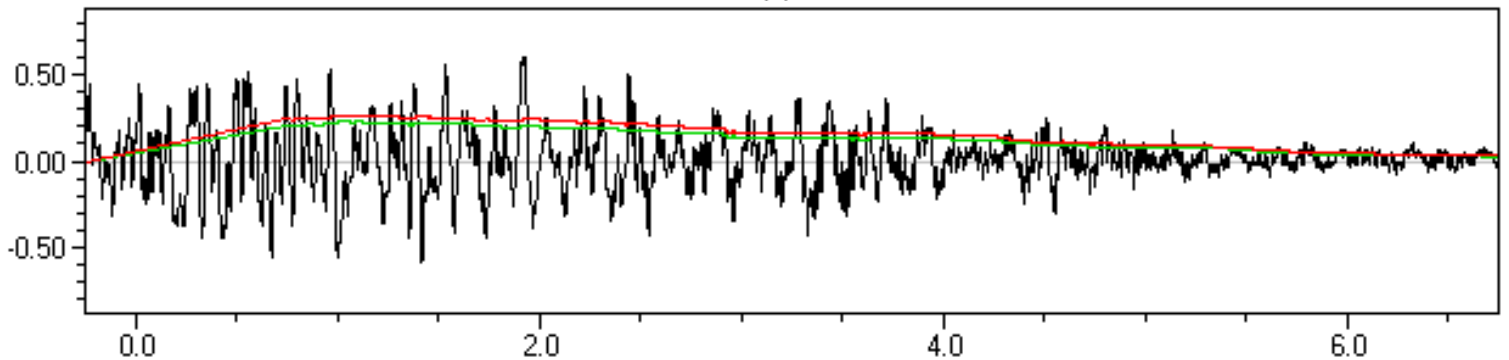
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.603	0.603	0.889	mm/s	
ZC Freq	7.0	8.7	10	Hz	
Time of Peak	0.327	1.920	0.255	Sec	
Peak Acceleration	0.0116	0.00994	0.0133	g	
Peak Displacement	0.0115	0.0119	0.0125	mm	rms of magnitude
RMS (1s fw 5.6)	0,19	0,23	0,34		0,45
RMS (1s)	0,23	0,27	0,38		0,51

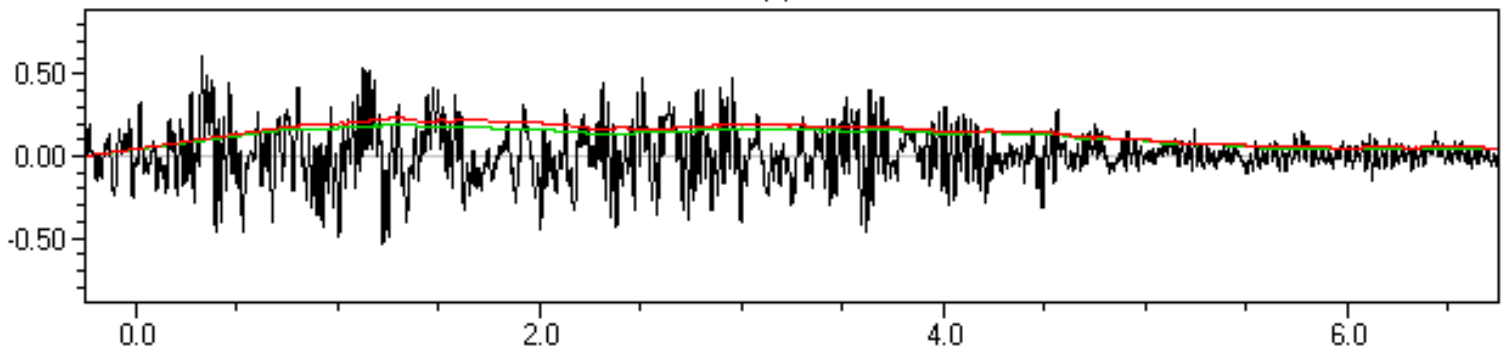
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 22:45:23

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHBj.7N0

Trigger: Long

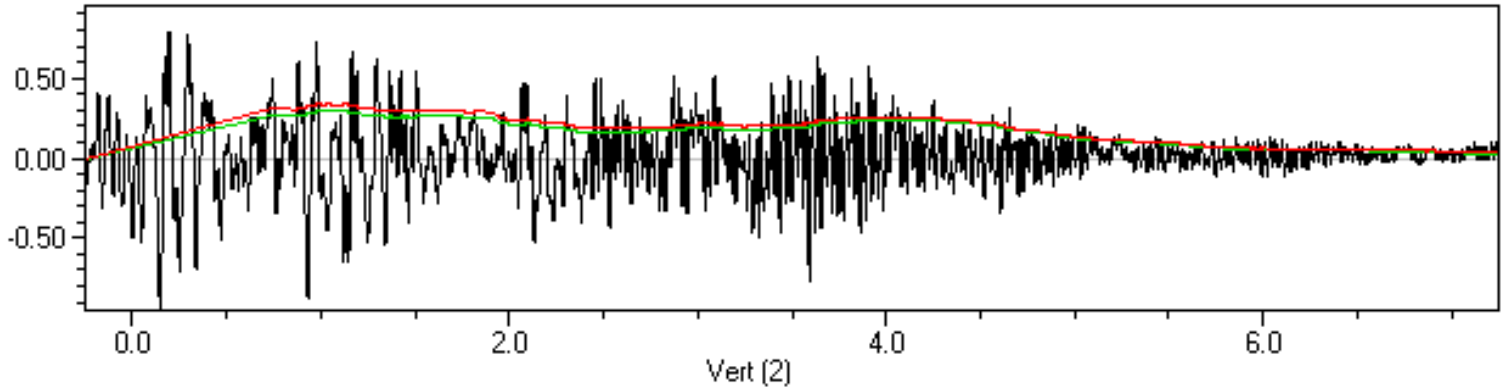
Record Time: 7.25 sec

Sample Rate: 1024 sps

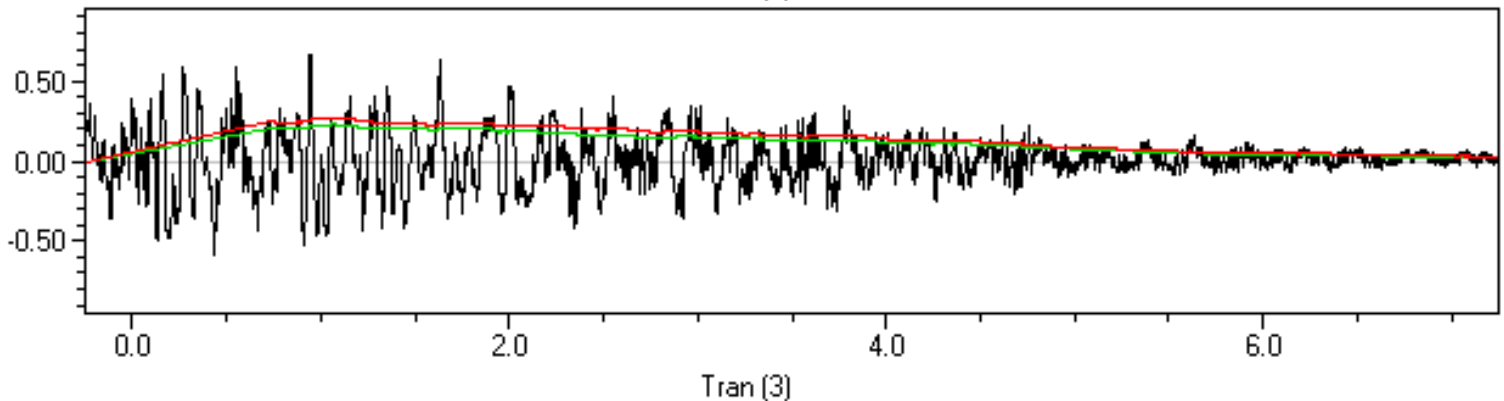
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.571	0.667	0.952	mm/s	
ZC Freq	23	15	12	Hz	
Time of Peak	1.556	0.942	0.146	Sec	
Peak Acceleration	0.0116	0.00994	0.0149	g	
Peak Displacement	0.00819	0.0134	0.0115	mm	rms of magnitude
RMS (1s fw 5.6)	0,19	0,23	0,30		0,41
RMS (1s)	0,23	0,27	0,34		0,47

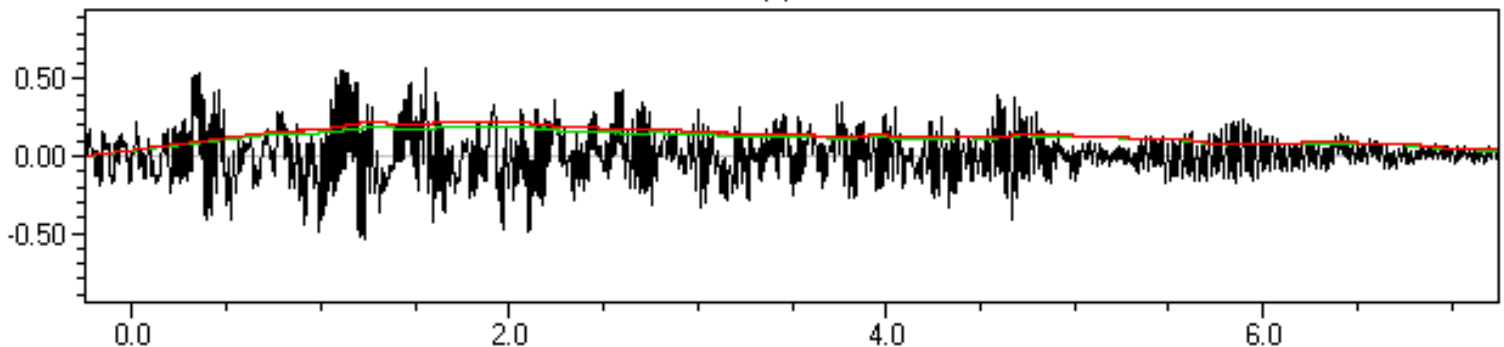
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 02:32:42

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHBT.Q10

Trigger: Long

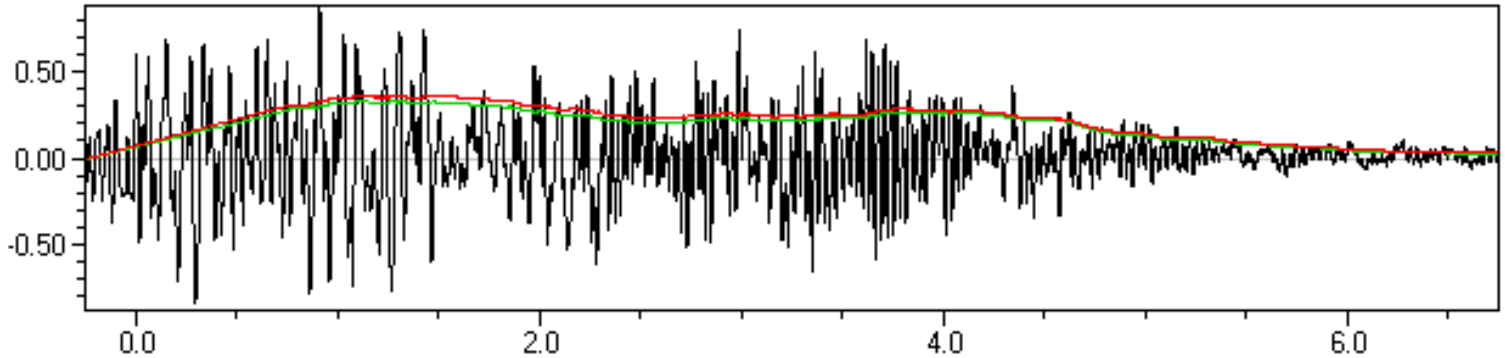
Record Time: 6.75 sec

Sample Rate: 1024 sps

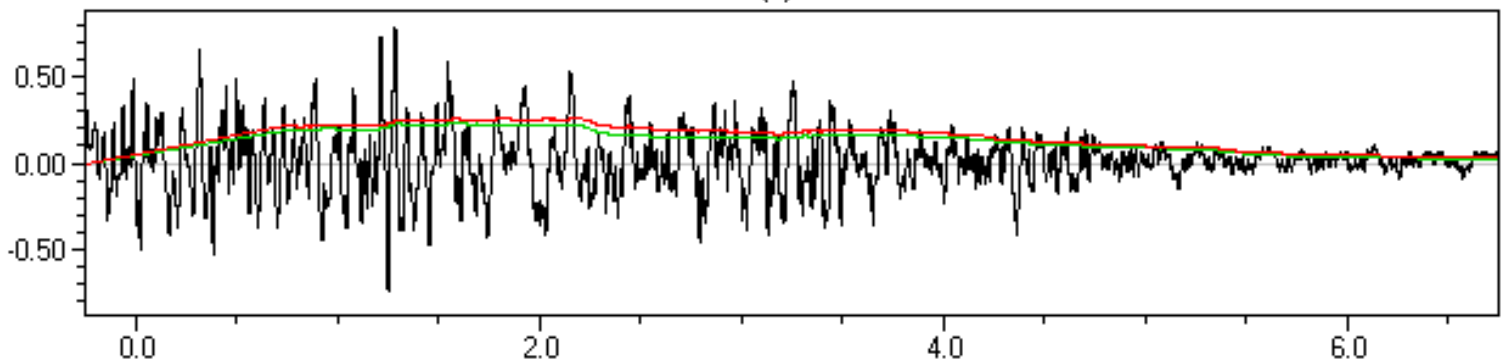
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.667	0.794	0.889	mm/s	
ZC Freq	26	14	11	Hz	
Time of Peak	1.169	1.283	0.909	Sec	
Peak Acceleration	0.0133	0.0116	0.0149	g	
Peak Displacement	0.0148	0.0105	0.00985	mm	rms of magnitude
RMS (1s fw 5.6)	0,20	0,23	0,33		0,45
RMS (1s)	0,24	0,26	0,36		0,50

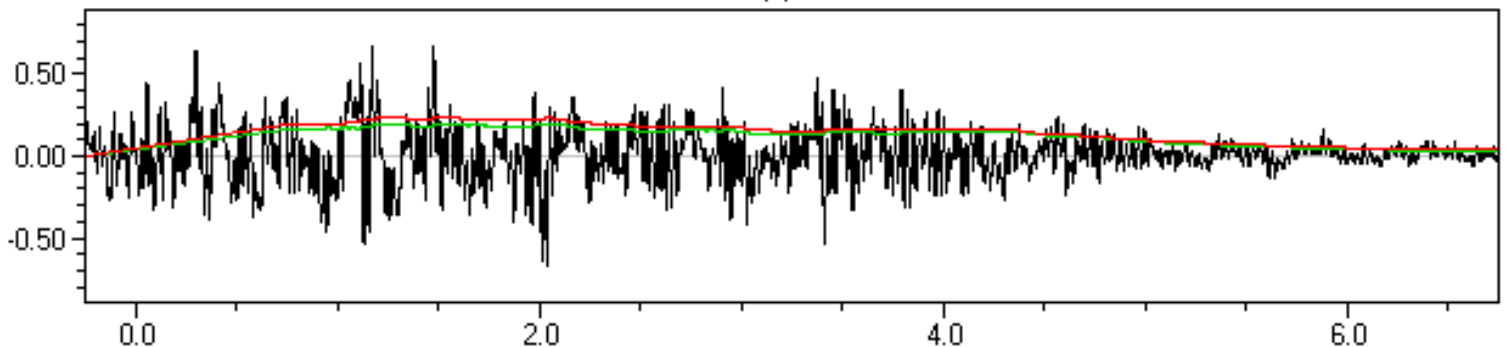
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 04:57:38

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHC0.G20

Trigger: Vert

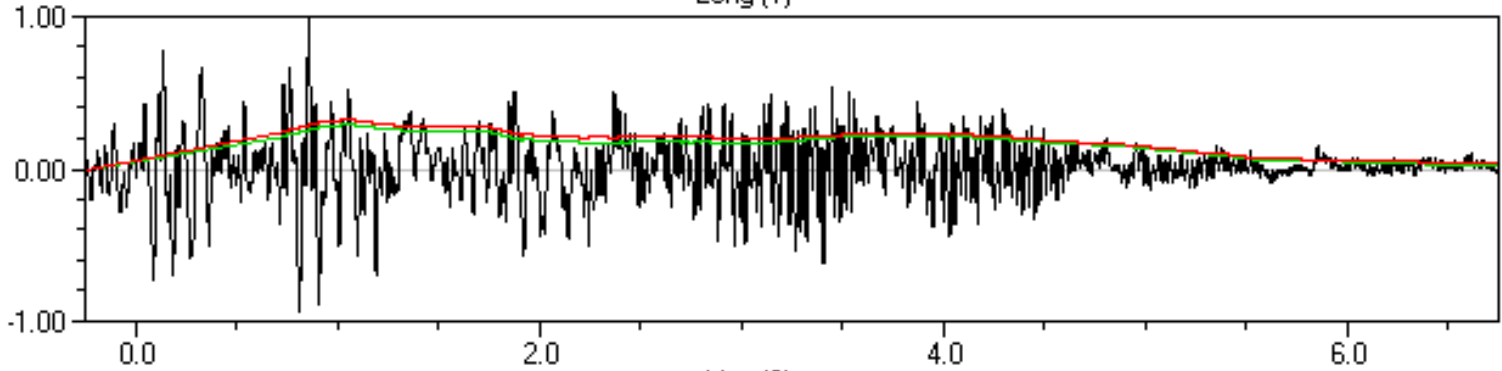
Record Time: 6.75 sec

Sample Rate: 1024 sps

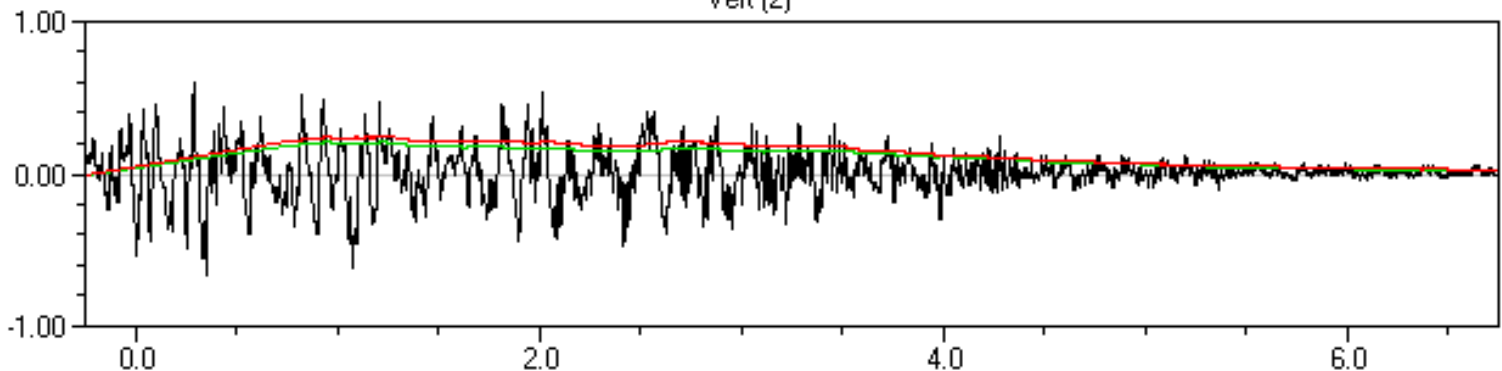
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.603	0.667	1.00	mm/s	
ZC Freq	11	12	19	Hz	
Time of Peak	0.271	0.350	0.855	Sec	
Peak Acceleration	0.00994	0.00994	0.0133	g	
Peak Displacement	0.0137	0.0132	0.00933	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,21	0,29		0,39
RMS (1s)	0,20	0,24	0,32		0,44

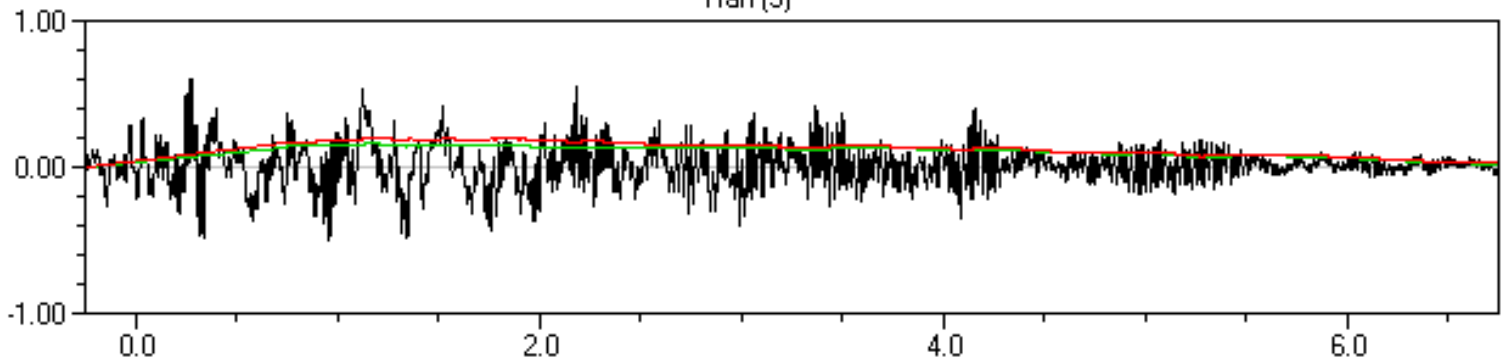
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 14:34:42

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHCR.5U0

Trigger: Vert

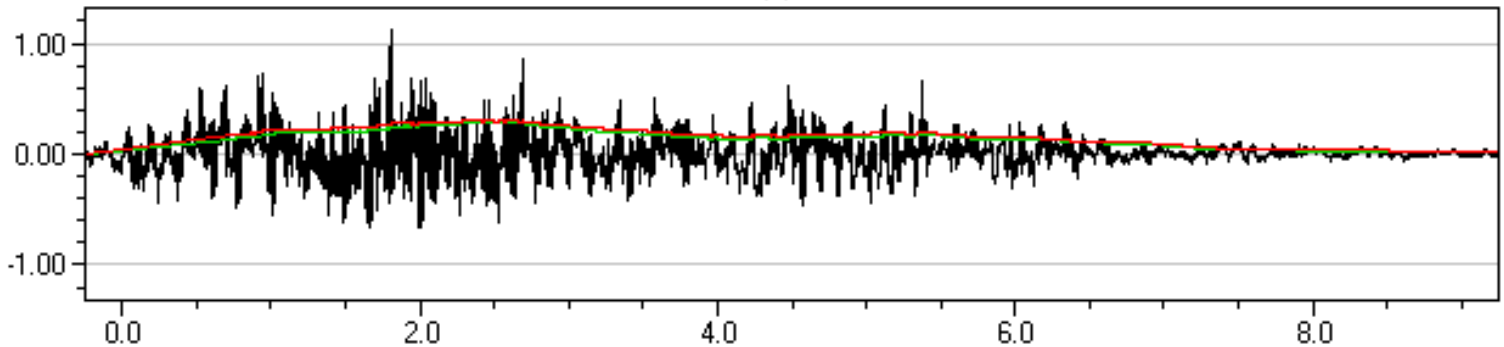
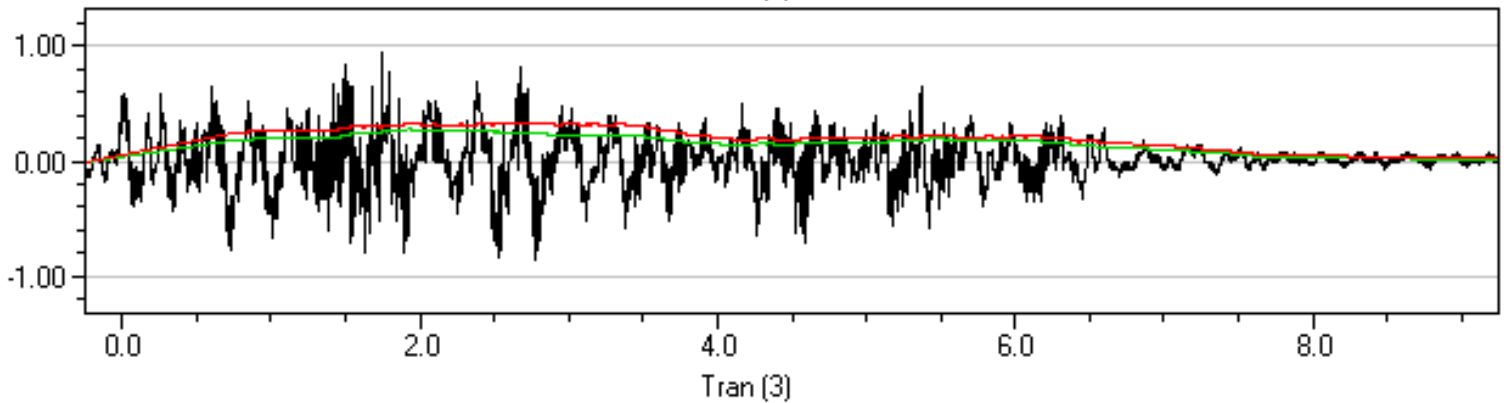
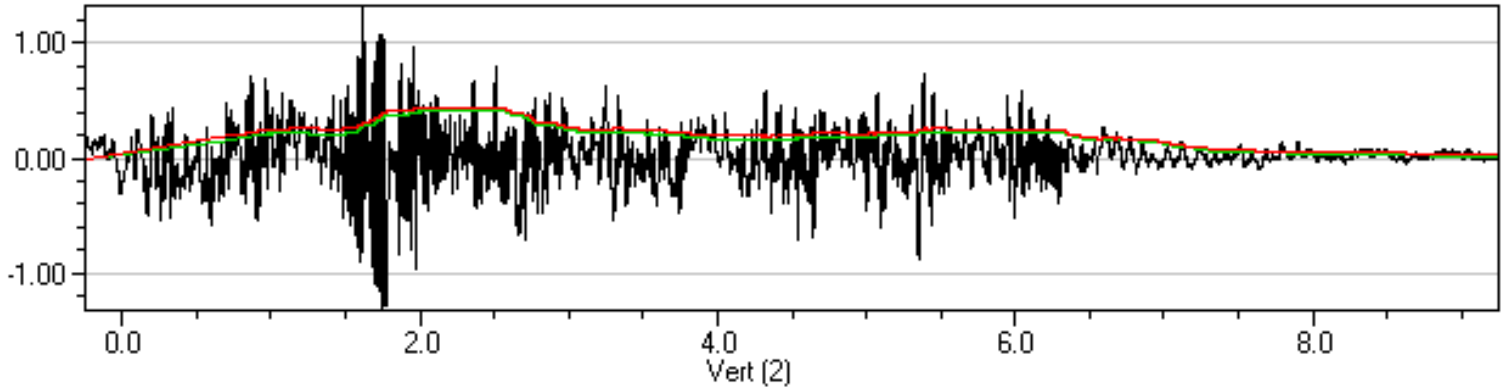
Record Time: 9.25 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by Instatel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.13	0.937	1.32	mm/s	
ZC Freq	30	7.4	28	Hz	
Time of Peak	1.804	1.742	1.618	Sec	
Peak Acceleration	0.0199	0.0249	0.0315	g	
Peak Displacement	0.0104	0.0194	0.0185	mm	rms of magnitude
RMS (1s fw 5.6)	0,29	0,28	0,42		0,57
RMS (1s)	0,30	0,33	0,44		0,62

Long (1)





Event Date: January 1, 2007

Event Time: 17:38:37

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHCZ.OD0

Trigger: Long

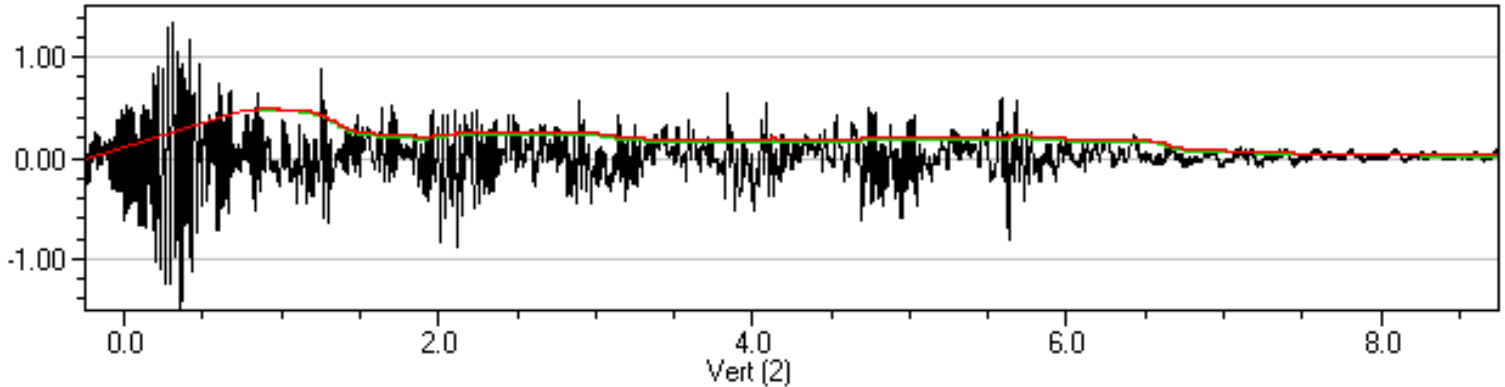
Record Time: 8.75 sec

Sample Rate: 1024 sps

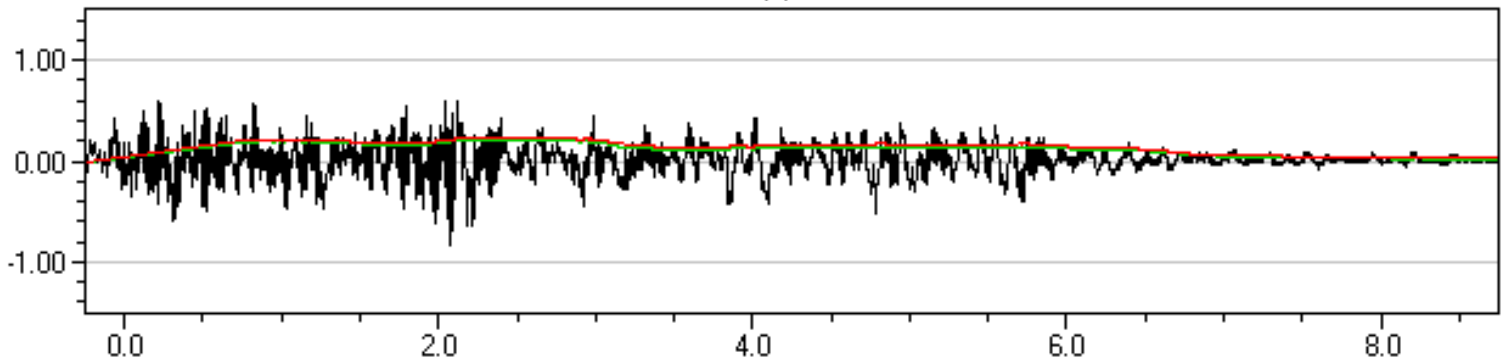
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.02	0.825	1.51	mm/s	
ZC Freq	30	34	32	Hz	
Time of Peak	0.426	2.078	0.358	Sec	
Peak Acceleration	0.0215	0.0215	0.0298	g	
Peak Displacement	0.00691	0.00969	0.00829	mm	rms of magnitude
RMS (1s fw 5.6)	0,27	0,22	0,47		0,58
RMS (1s)	0,28	0,24	0,49		0,60

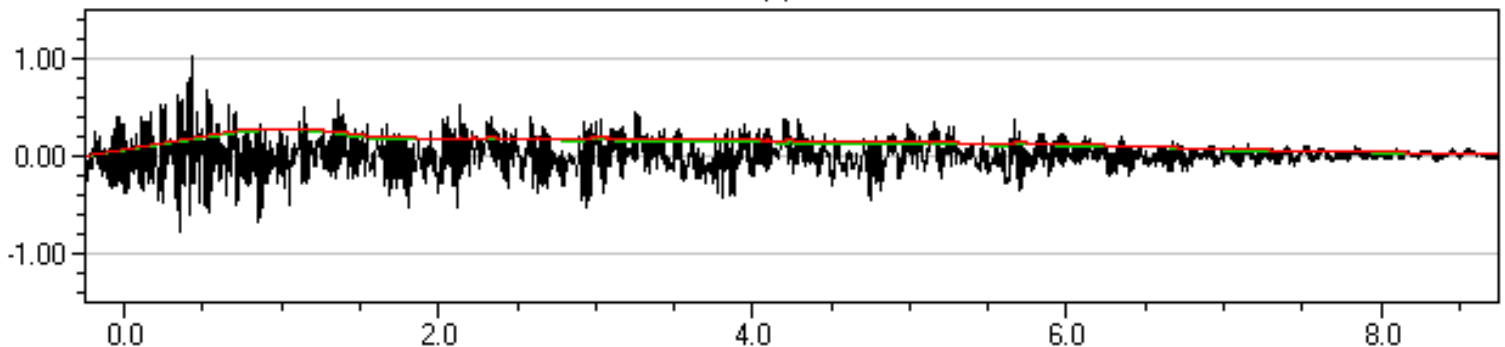
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 21:20:36

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHD9.YC0

Trigger: Long

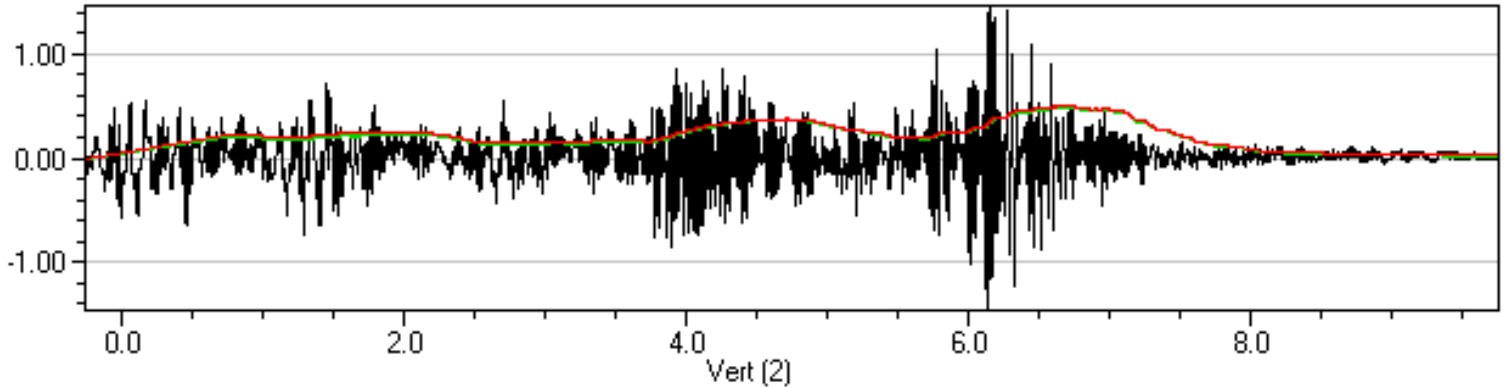
Record Time: 9.75 sec

Sample Rate: 1024 sps

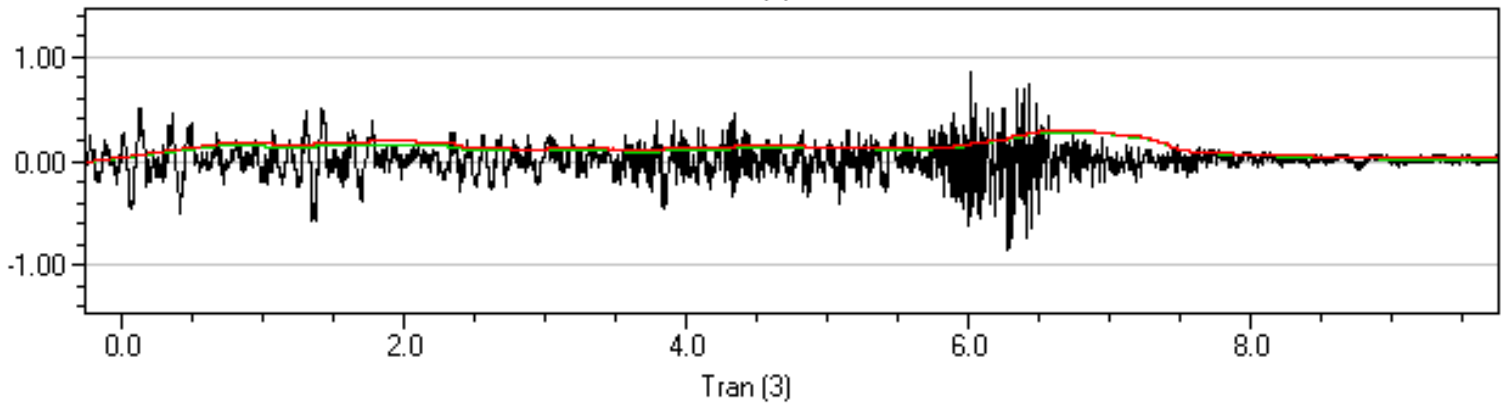
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.810	0.857	1.46	mm/s	
ZC Freq	32	37	30	Hz	
Time of Peak	6.535	6.016	6.145	Sec	
Peak Acceleration	0.0166	0.0215	0.0315	g	
Peak Displacement	0.00415	0.0105	0.00826	mm	rms of magnitude
RMS (1s fw 5.6)	0,26	0,28	0,48		0,61
RMS (1s)	0,27	0,29	0,50		0,63

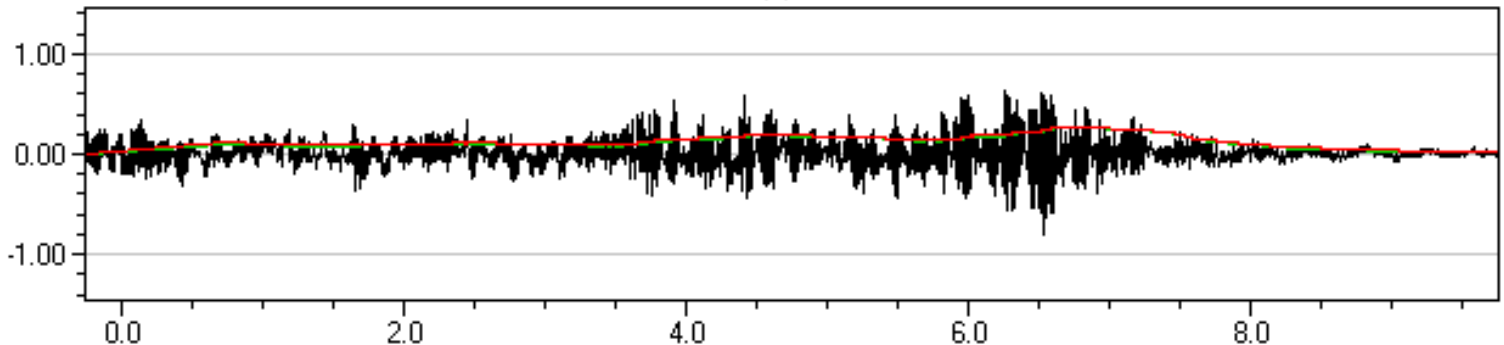
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 22:46:23

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHDD.XB0

Trigger: Vert

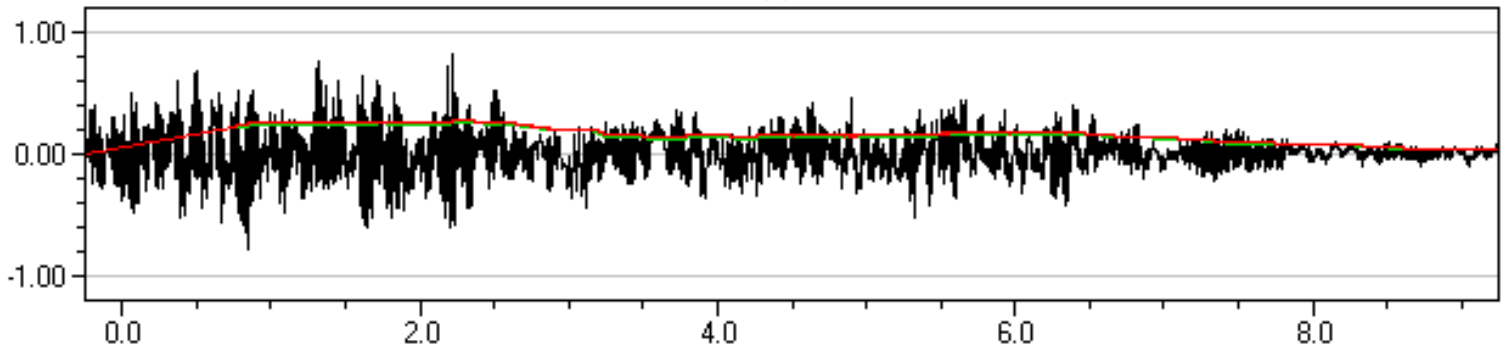
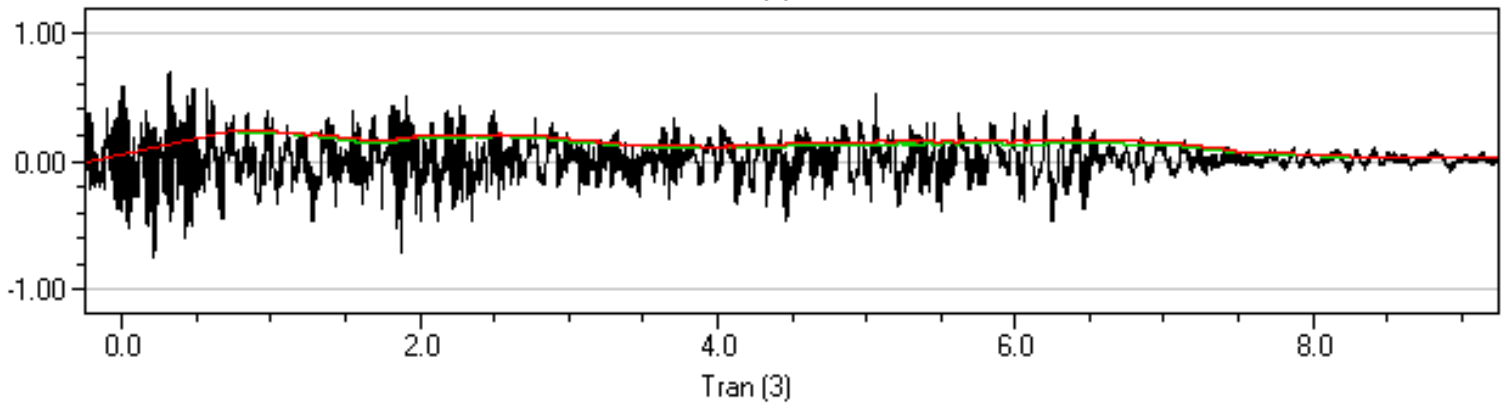
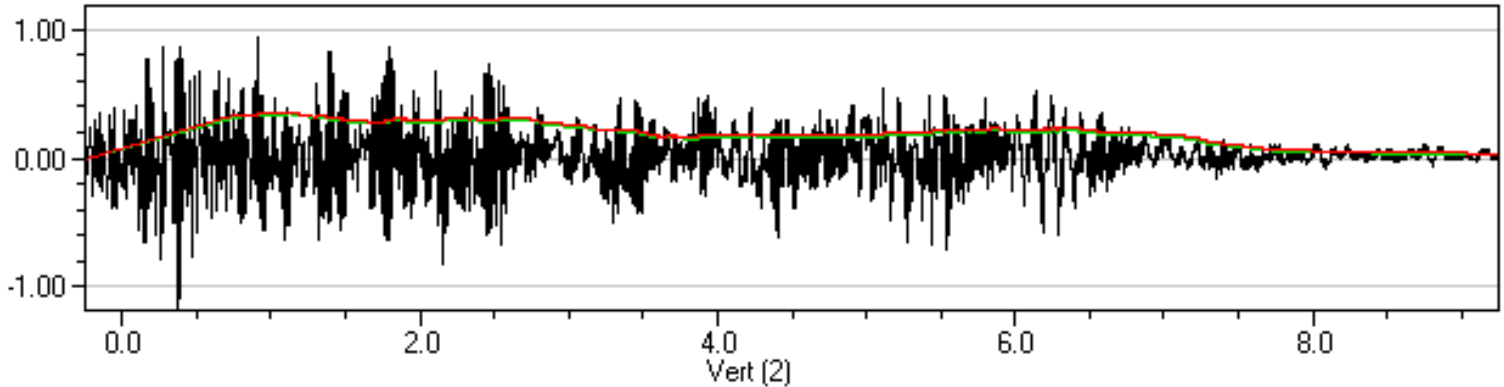
Record Time: 9.25 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.810	0.746	1.19	mm/s	
ZC Freq	37	32	30	Hz	
Time of Peak	2.215	0.215	0.377	Sec	
Peak Acceleration	0.0199	0.0182	0.0215	g	
Peak Displacement	0.00860	0.00745	0.00751	mm	rms of magnitude
RMS (1s fw 5.6)	0,26	0,23	0,34		0,47
RMS (1s)	0,28	0,24	0,36		0,50

Long (1)





Event Date: January 2, 2007

Event Time: 06:44:55

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHE0.2V0

Trigger: Long

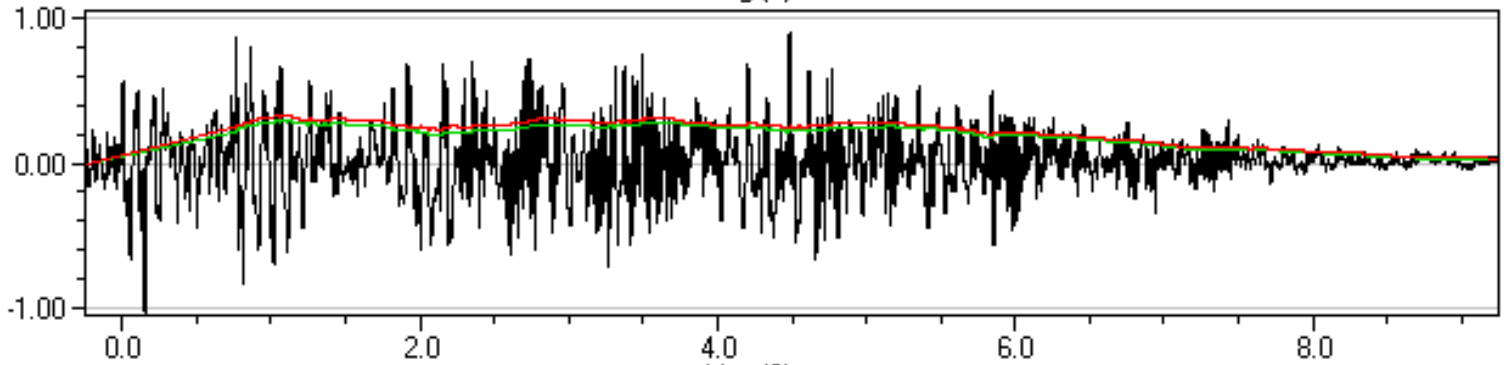
Record Time: 9.25 sec

Sample Rate: 1024 sps

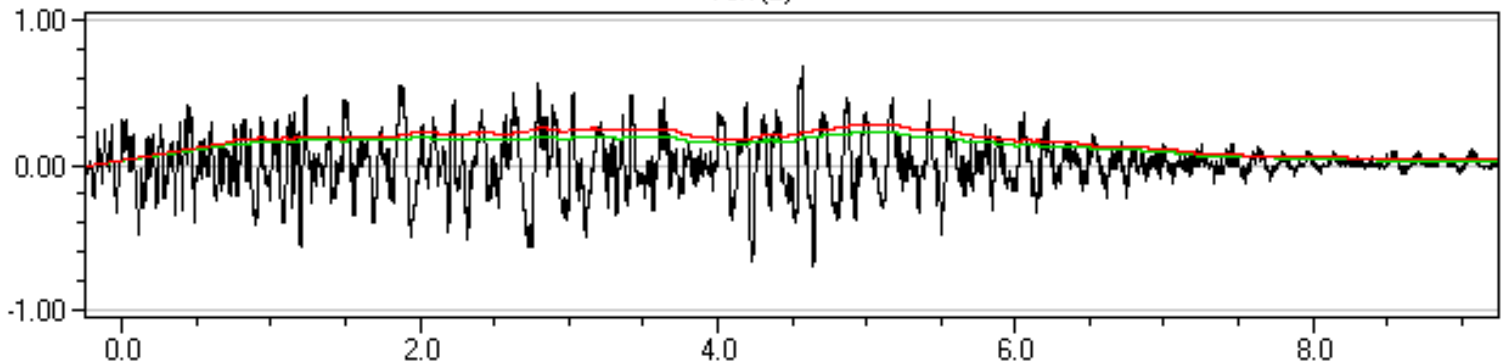
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.698	0.698	1.05	mm/s	
ZC Freq	24	8.7	9.7	Hz	
Time of Peak	2.835	4.644	0.151	Sec	
Peak Acceleration	0.0116	0.0116	0.0149	g	
Peak Displacement	0.0139	0.0162	0.0117	mm	rms of magnitude
RMS (1s fw 5.6)	0,19	0,22	0,29		0,38
RMS (1s)	0,24	0,28	0,32		0,46

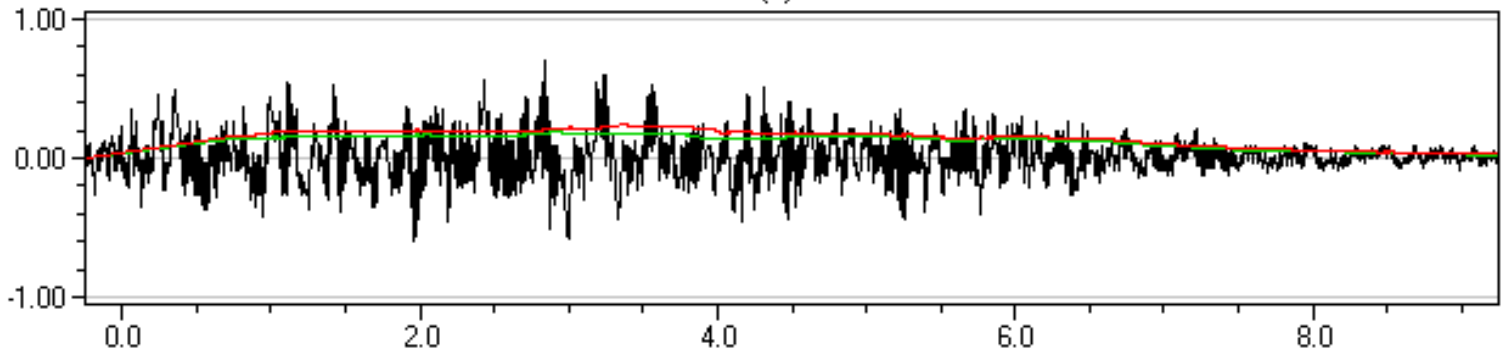
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 14:34:44

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHEL.TW0

Trigger: Vert

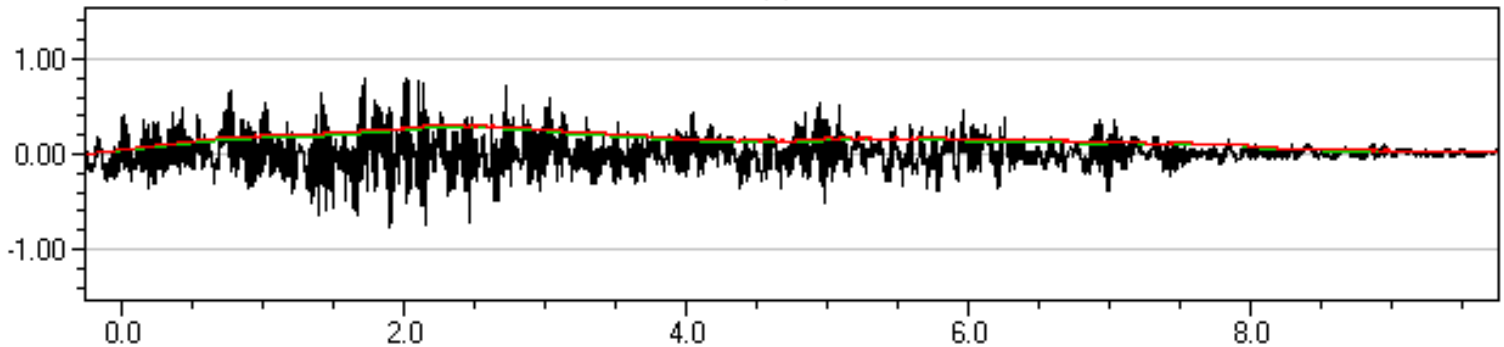
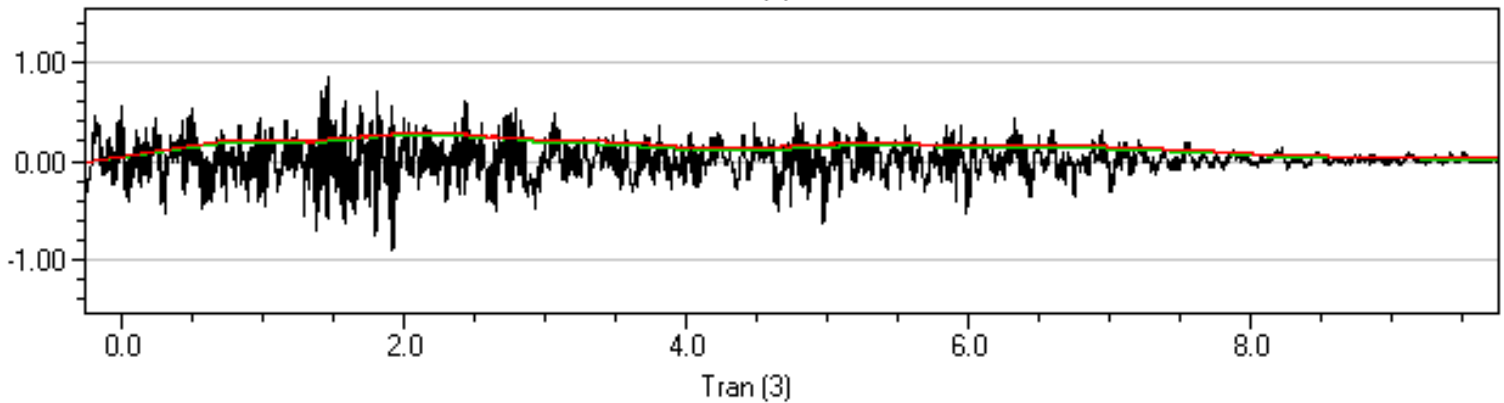
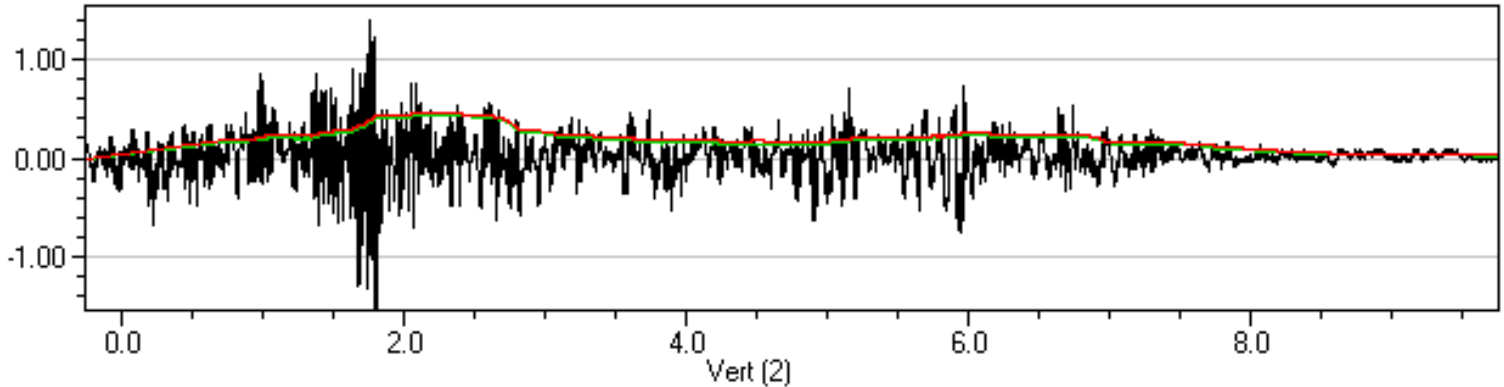
Record Time: 9.75 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.794	0.889	1.54	mm/s	
ZC Freq	32	32	26	Hz	
Time of Peak	1.729	1.926	1.806	Sec	
Peak Acceleration	0.0182	0.0215	0.0331	g	
Peak Displacement	0.00727	0.0121	0.0109	mm	rms of magnitude
RMS (1s fw 5.6)	0,29	0,27	0,44		0,59
RMS (1s)	0,31	0,28	0,46		0,62

Long (1)





Event Date: January 3, 2007

Event Time: 14:34:47

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHGG.HZ0

Trigger: Tran

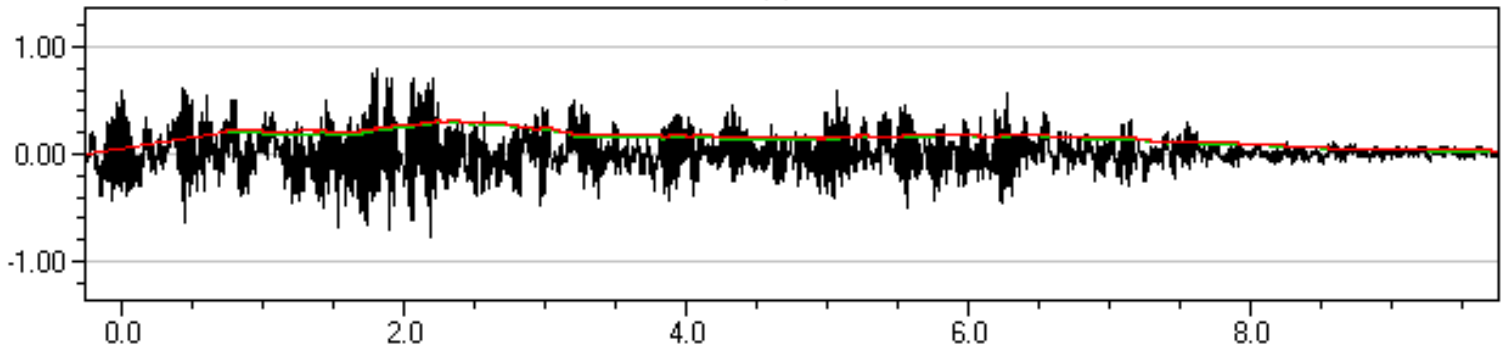
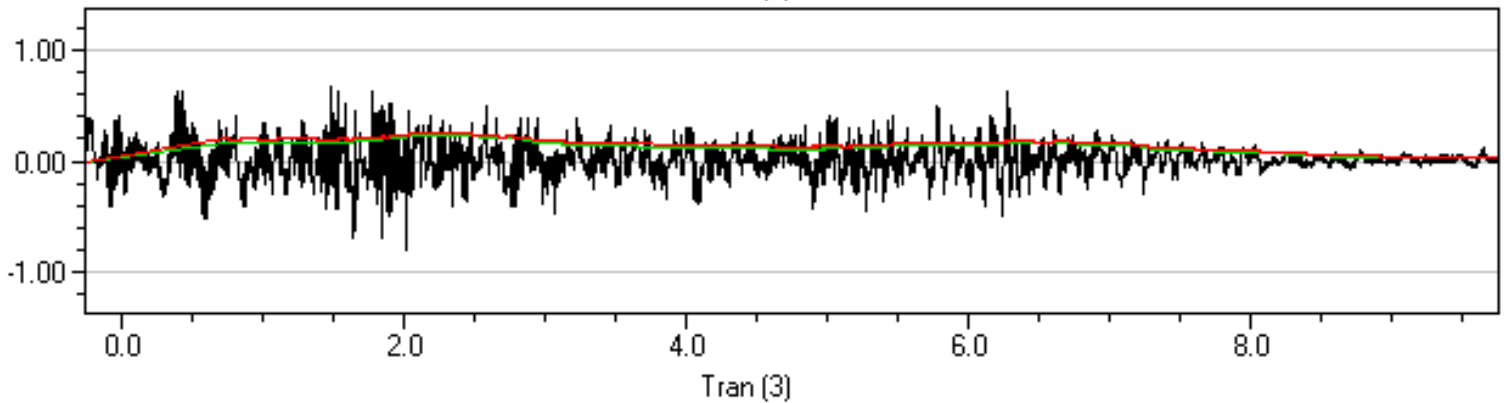
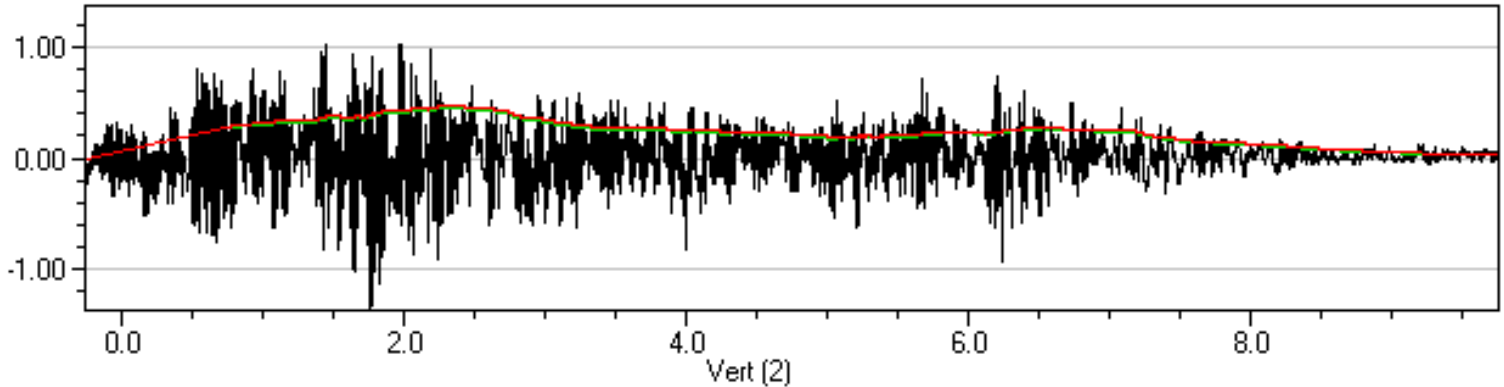
Record Time: 9.75 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.794	0.794	1.37	mm/s	
ZC Freq	34	30	32	Hz	
Time of Peak	1.812	2.023	1.771	Sec	
Peak Acceleration	0.0199	0.0182	0.0282	g	
Peak Displacement	0.00752	0.00778	0.00972	mm	rms of magnitude
RMS (1s fw 5.6)	0,29	0,23	0,46		0,59
RMS (1s)	0,31	0,25	0,47		0,62

Long (1)





Event Date: January 3, 2007

Event Time: 16:01:53

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHGK.J50

Trigger: Long

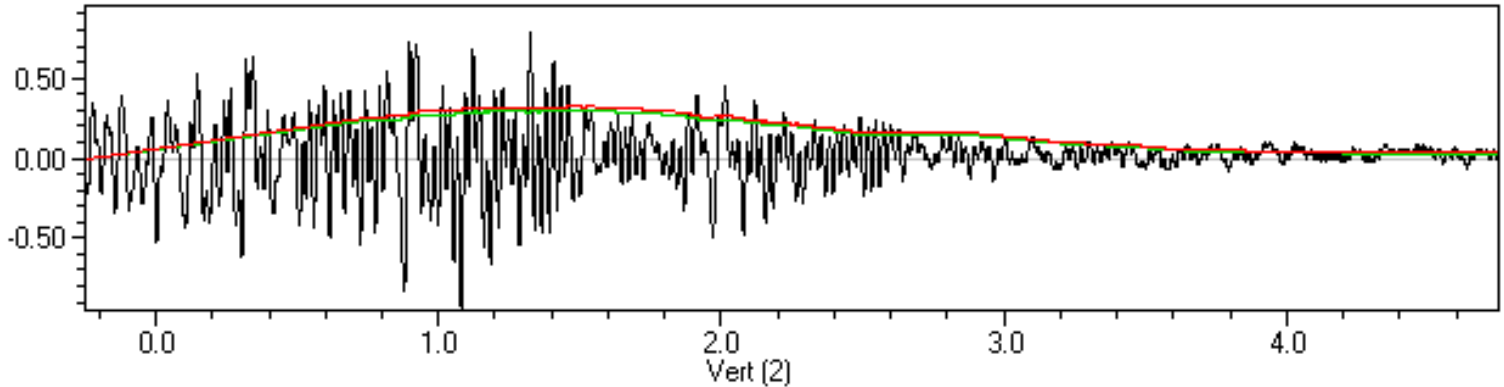
Record Time: 4.75 sec

Sample Rate: 1024 sps

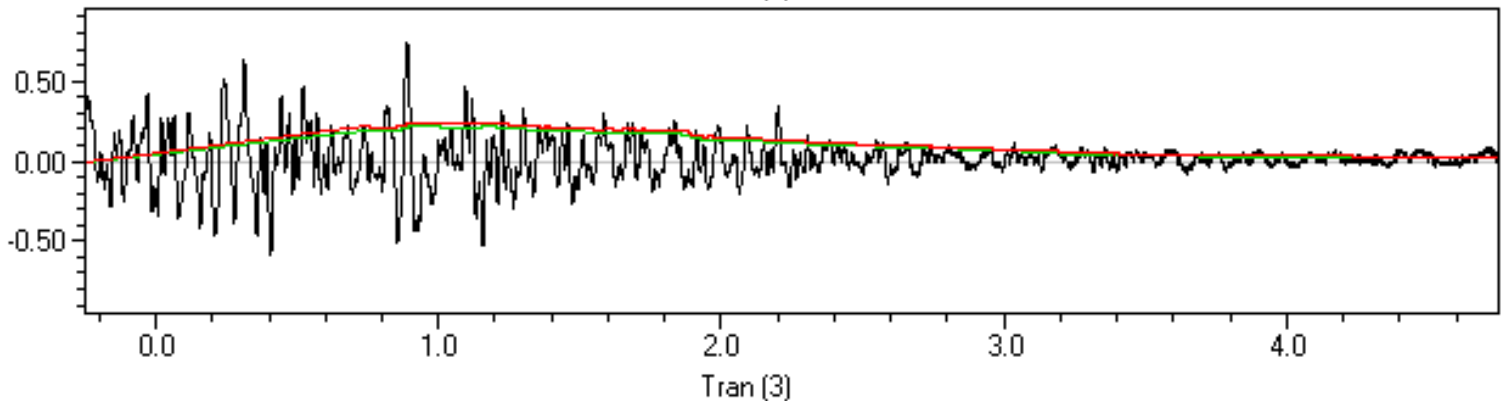
Calibration: April 27, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.492	0.746	0.952	mm/s	
ZC Freq	10	16	24	Hz	
Time of Peak	0.296	0.886	1.080	Sec	
Peak Acceleration	0.00994	0.0116	0.0166	g	
Peak Displacement	0.00588	0.00708	0.0104	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,22	0,30		0,40
RMS (1s)	0,19	0,24	0,32		0,44

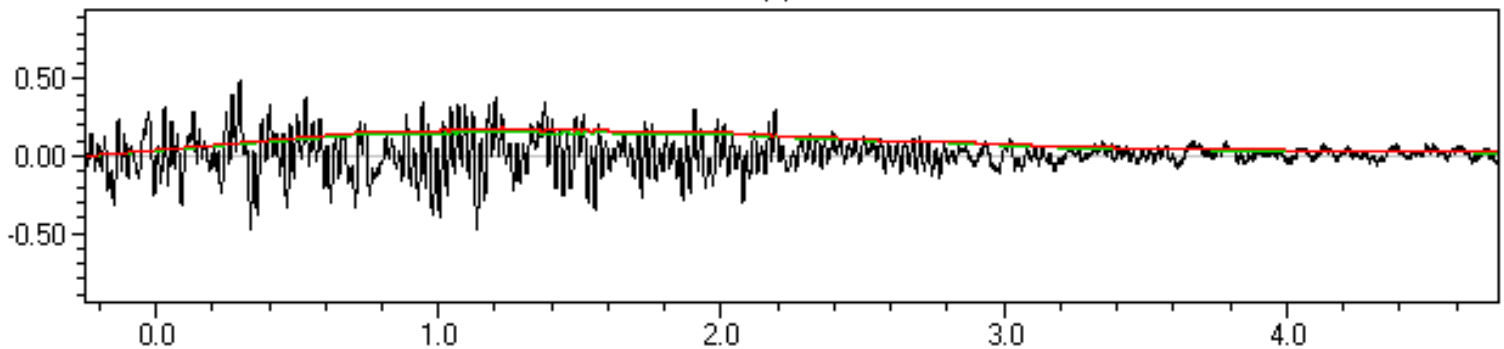
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 20:44:40

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHGX.MG0

Trigger: Vert

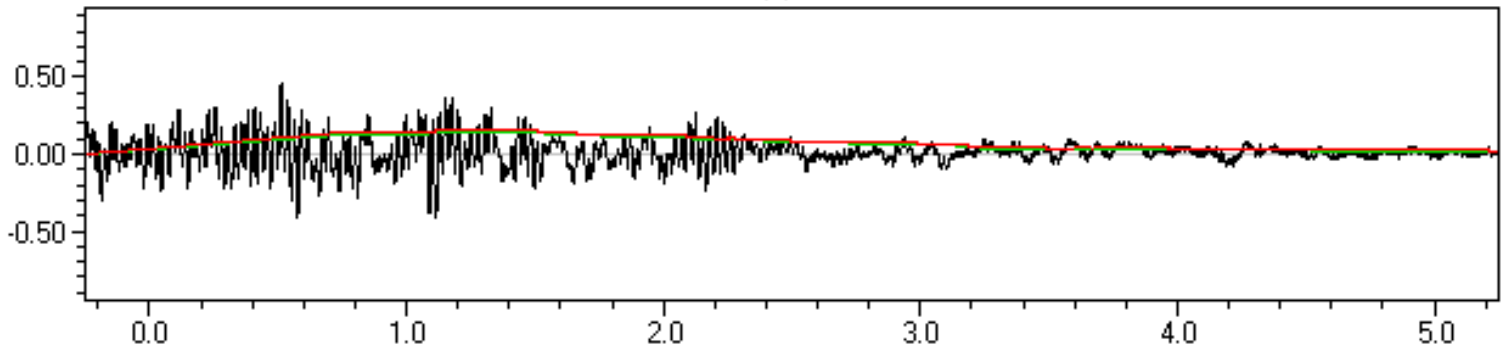
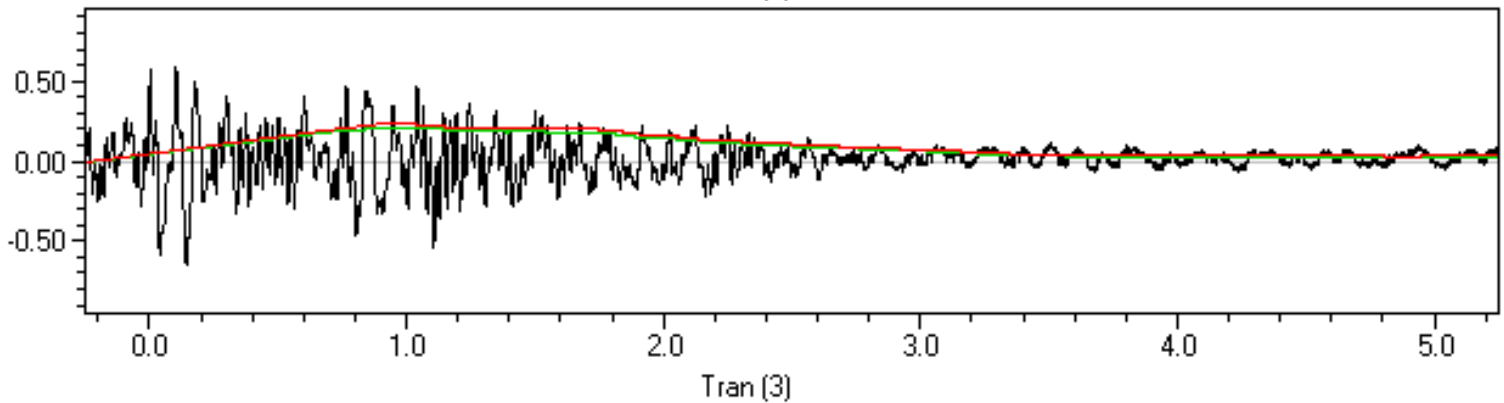
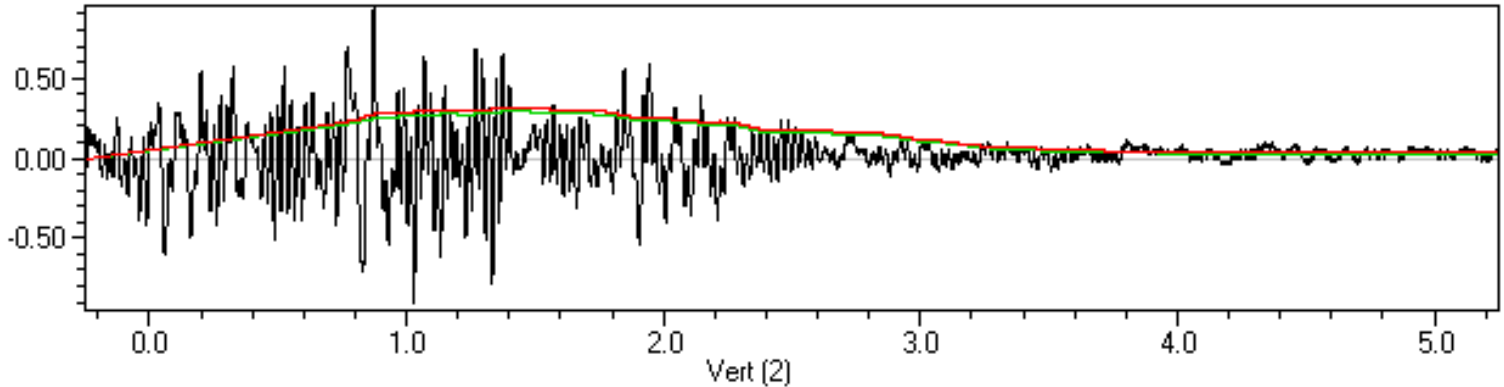
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.460	0.651	0.952	mm/s	
ZC Freq	26	13	12	Hz	
Time of Peak	0.512	0.144	0.873	Sec	
Peak Acceleration	0.00994	0.0116	0.0166	g	
Peak Displacement	0.00360	0.00774	0.0105	mm	rms of magnitude
RMS (1s fw 5.6)	0,15	0,21	0,29		0,37
RMS (1s)	0,16	0,23	0,32		0,41

Long (1)





Event Date: January 4, 2007

Event Time: 01:31:01

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11173, V 8.01-8.0 MiniMate Plus

File Name: M173BHHA.VP0

Trigger: Vert

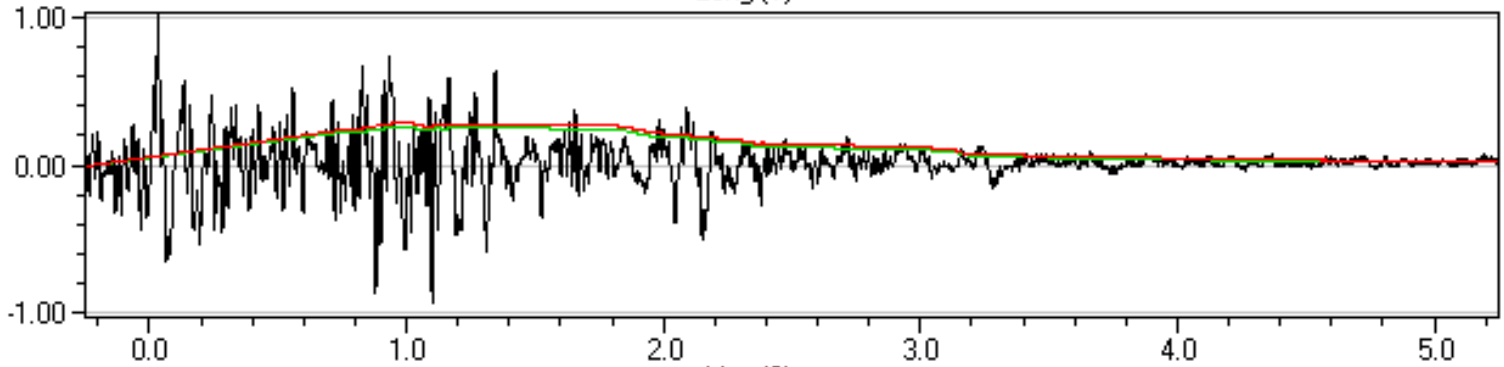
Record Time: 5.25 sec

Sample Rate: 1024 sps

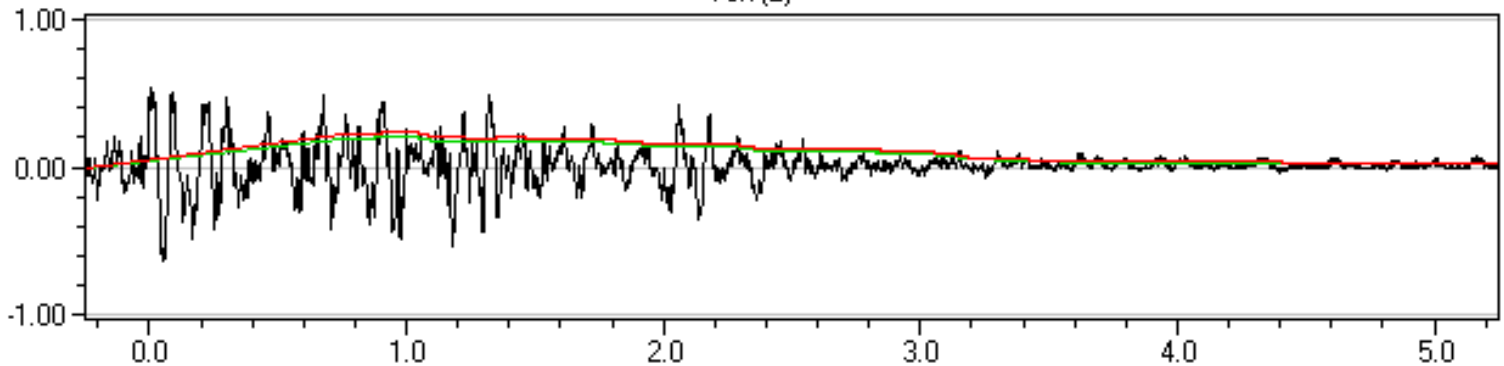
Calibration: April 27, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.508	0.635	1.03	mm/s	
ZC Freq	47	13	13	Hz	
Time of Peak	0.845	0.054	0.032	Sec	
Peak Acceleration	0.0149	0.0116	0.0199	g	
Peak Displacement	0.00405	0.00874	0.00891	mm	rms of magnitude
RMS (1s fw 5.6)	0,15	0,21	0,26		0,36
RMS (1s)	0,16	0,24	0,29		0,41

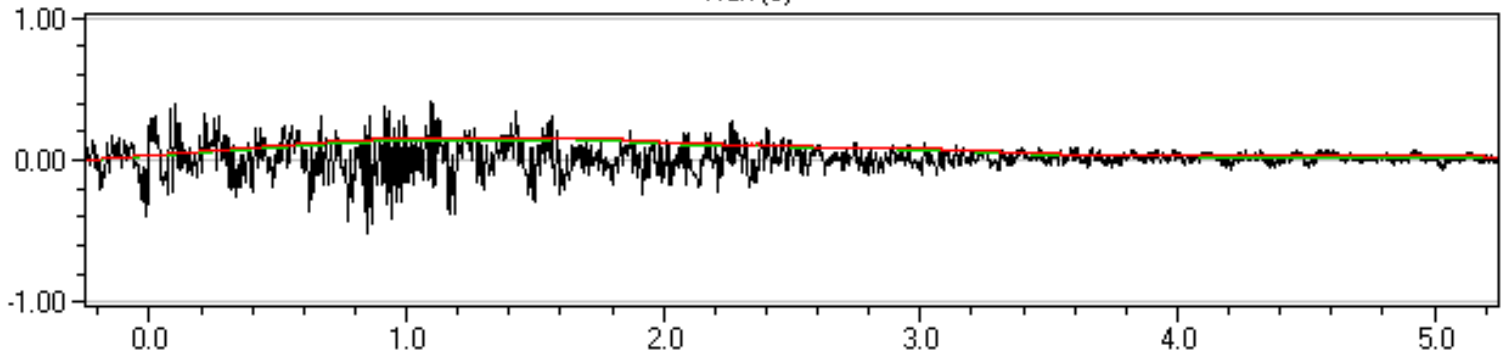
Long (1)



Vert (2)



Tran (3)





Event Date: December 29, 2006

Event Time: 14:18:43

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BH76.F70

Trigger: Vert

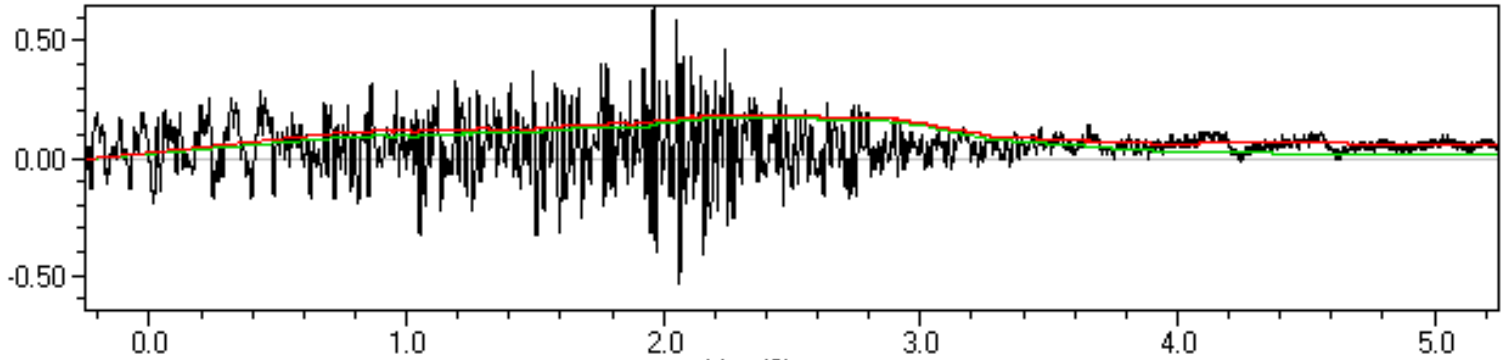
Record Time: 5.25 sec

Sample Rate: 1024 sps

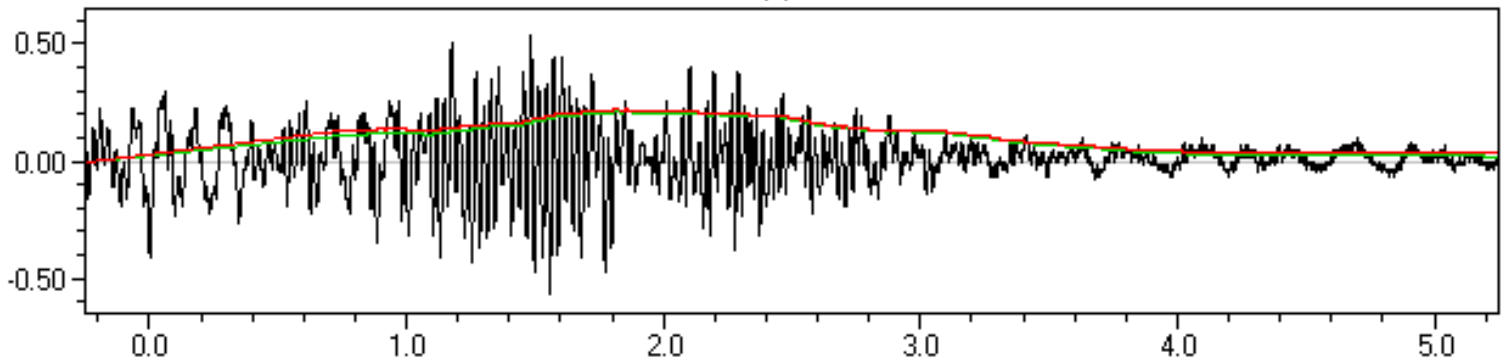
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.302	0.571	0.651	mm/s	
ZC Freq	39	32	39	Hz	
Time of Peak	1.320	1.559	1.960	Sec	
Peak Acceleration	0.00829	0.0133	0.0166	g	
Peak Displacement	0.00219	0.00481	0.0102	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,21	0,18		0,29
RMS (1s)	0,16	0,22	0,19		0,30

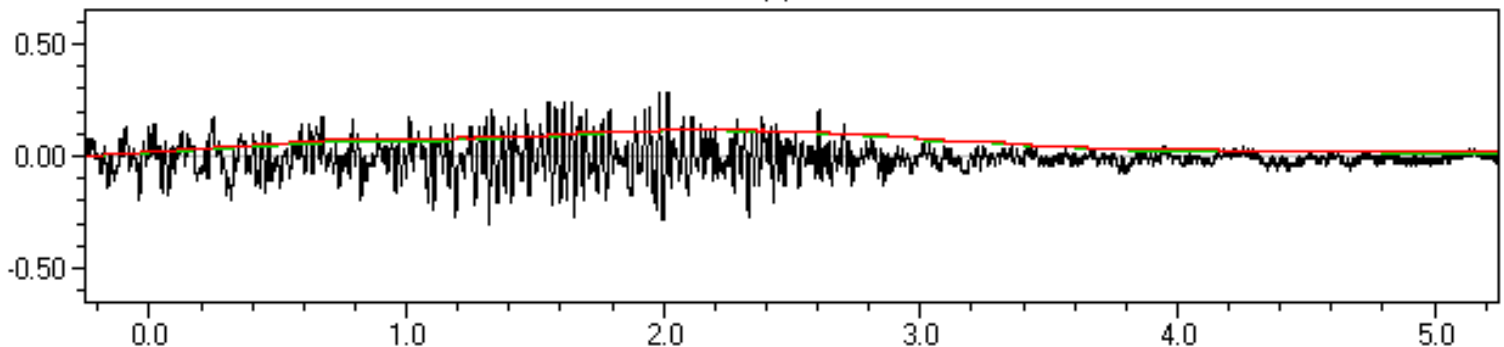
Long (1)



Vert (2)



Tran (3)





Event Date: December 29, 2006

Event Time: 17:55:15

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BH7G.G30

Trigger: Vert

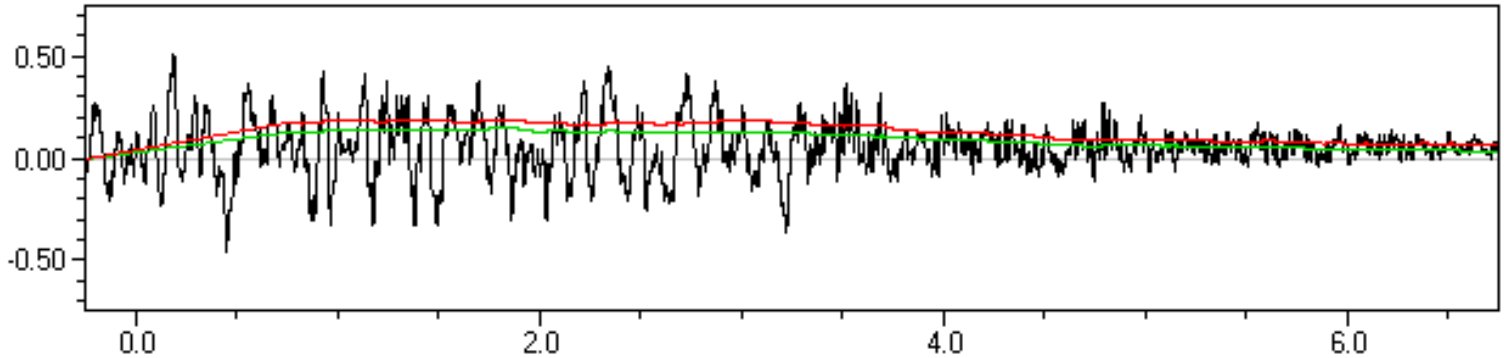
Record Time: 6.75 sec

Sample Rate: 1024 sps

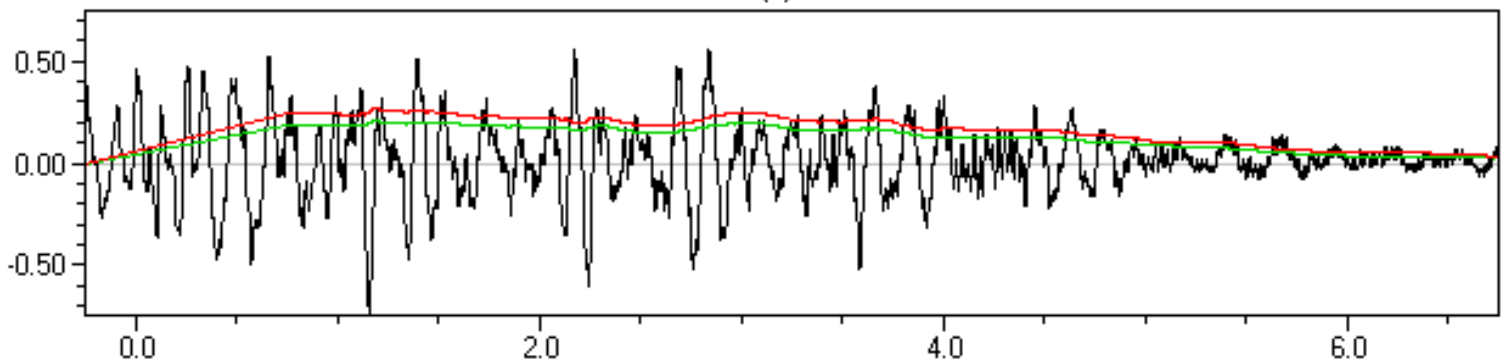
Calibration: April 25, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.254	0.746	0.508	mm/s	
ZC Freq	9.8	9.0	8.3	Hz	
Time of Peak	1.135	1.157	0.186	Sec	
Peak Acceleration	0.00497	0.00994	0.00663	g	
Peak Displacement	0.00574	0.0127	0.0132	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,20	0,15		0,25
RMS (1s)	0,10	0,26	0,19		0,33

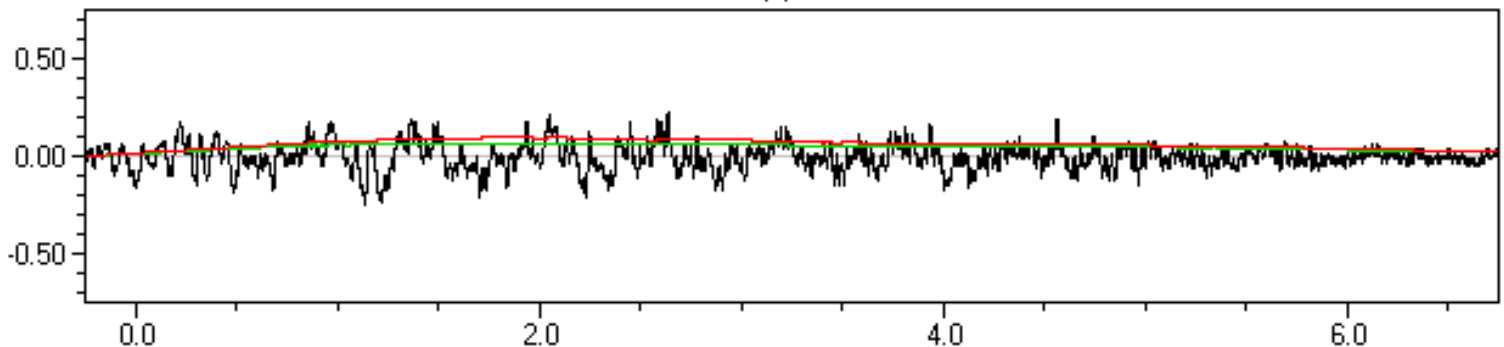
Long (1)



Vert (2)



Tran (3)





Event Date: December 29, 2006

Event Time: 22:45:20

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BH7T.VK0

Trigger: Vert

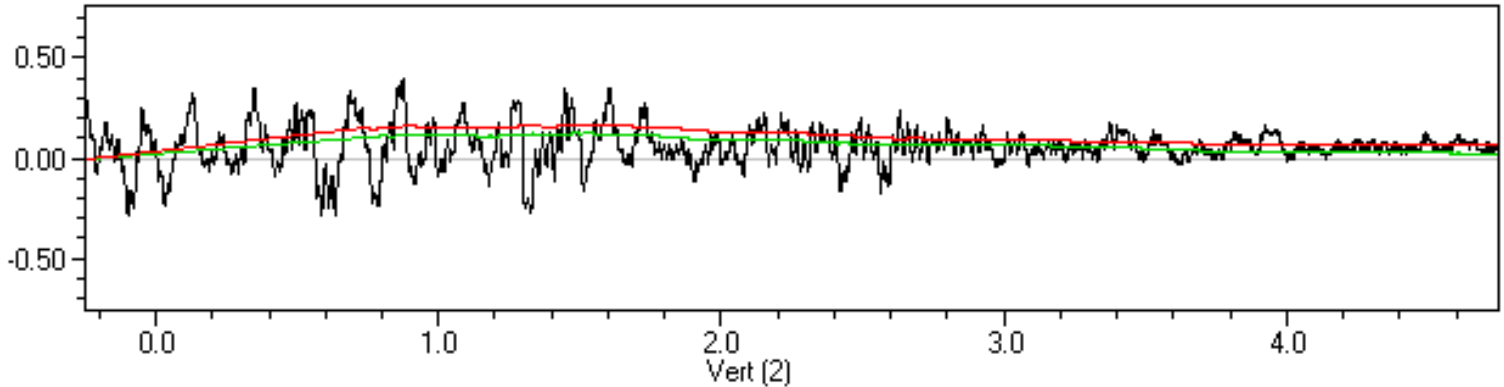
Record Time: 4.75 sec

Sample Rate: 1024 sps

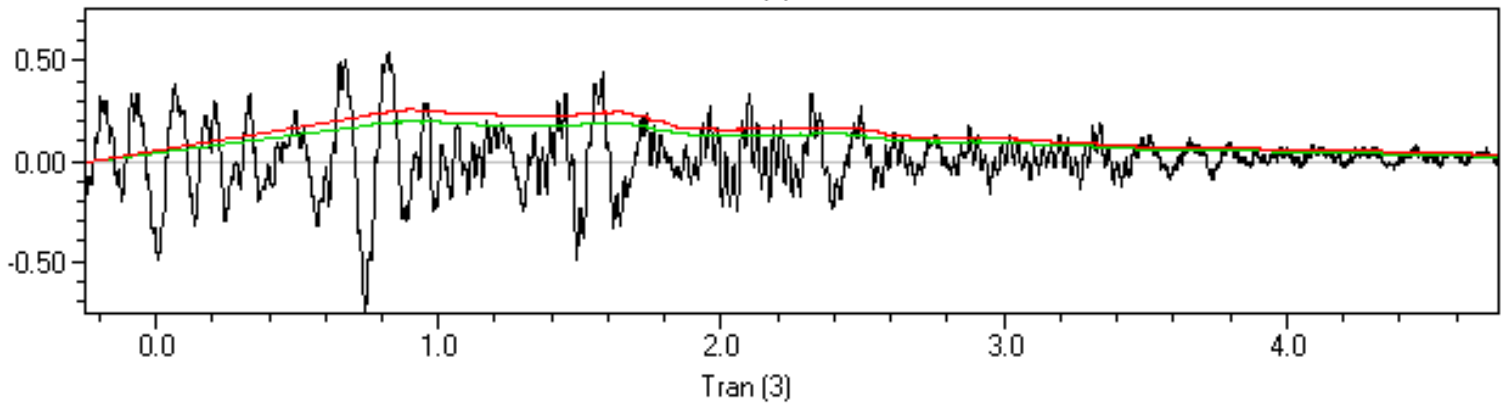
Calibration: April 25, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.254	0.762	0.397	mm/s	
ZC Freq	10	7.0	6.7	Hz	
Time of Peak	0.582	0.739	0.873	Sec	
Peak Acceleration	0.00663	0.00829	0.00663	g	
Peak Displacement	0.00367	0.0152	0.00888	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,20	0,12		0,24
RMS (1s)	0,08	0,26	0,17		0,31

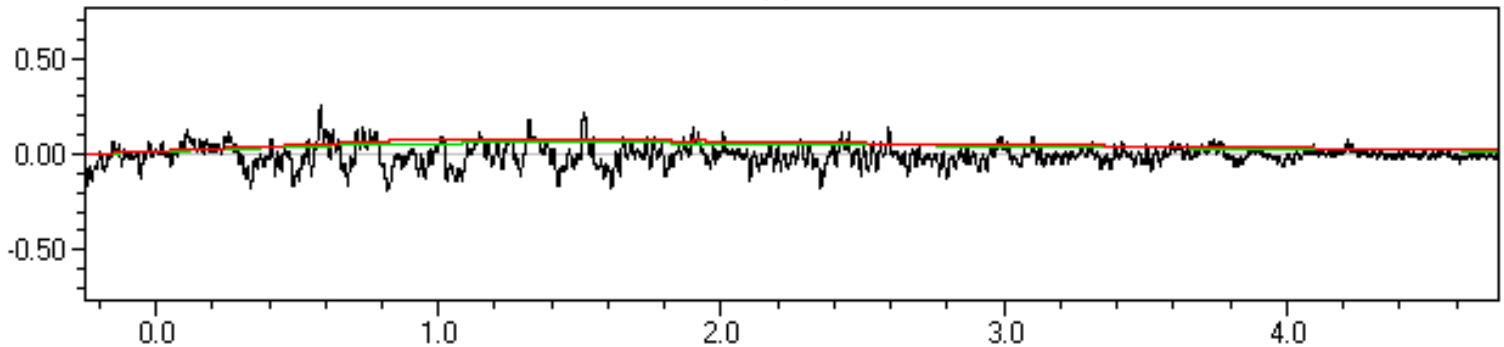
Long (1)



Vert (2)



Tran (3)





Event Date: December 30, 2006

Event Time: 03:57:27

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BH88.BR0

Trigger: Vert

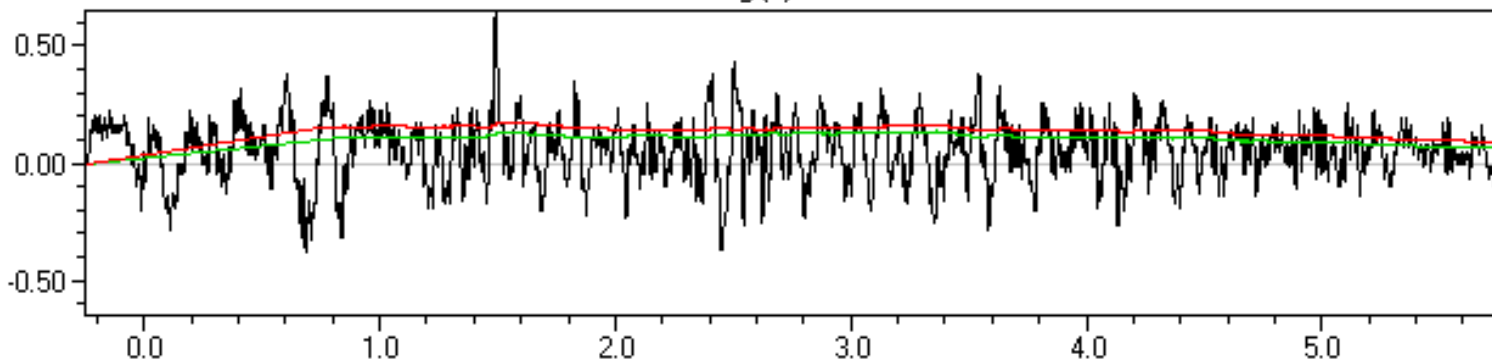
Record Time: 5.75 sec

Sample Rate: 1024 sps

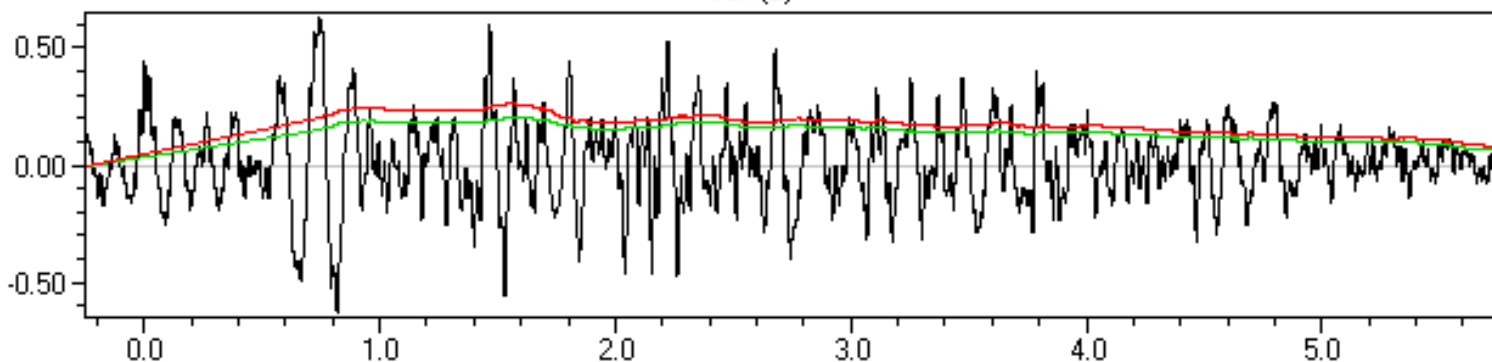
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.254	0.635	0.651	mm/s	
ZC Freq	20	6.4	7.9	Hz	
Time of Peak	2.457	0.740	1.490	Sec	
Peak Acceleration	0.00663	0.00994	0.00829	g	
Peak Displacement	0.00603	0.0166	0.0132	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,21	0,14		0,25
RMS (1s)	0,08	0,26	0,18		0,32

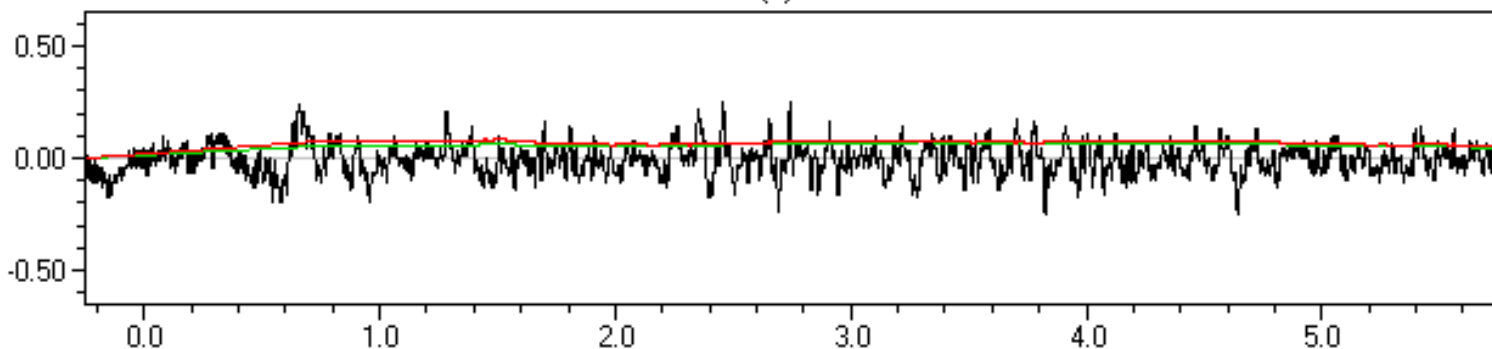
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 20:45:03

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHBD.N30

Trigger: Long

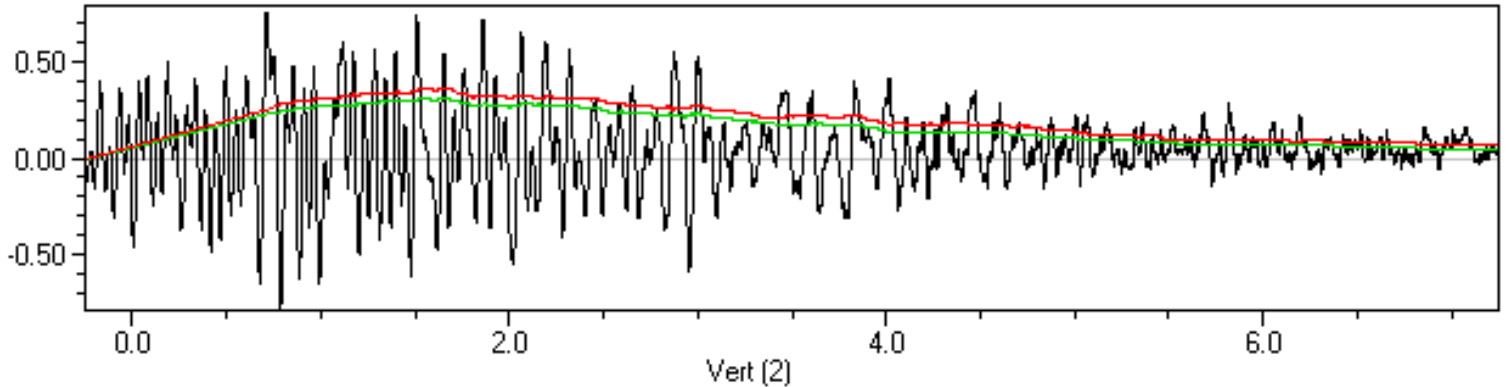
Record Time: 7.25 sec

Sample Rate: 1024 sps

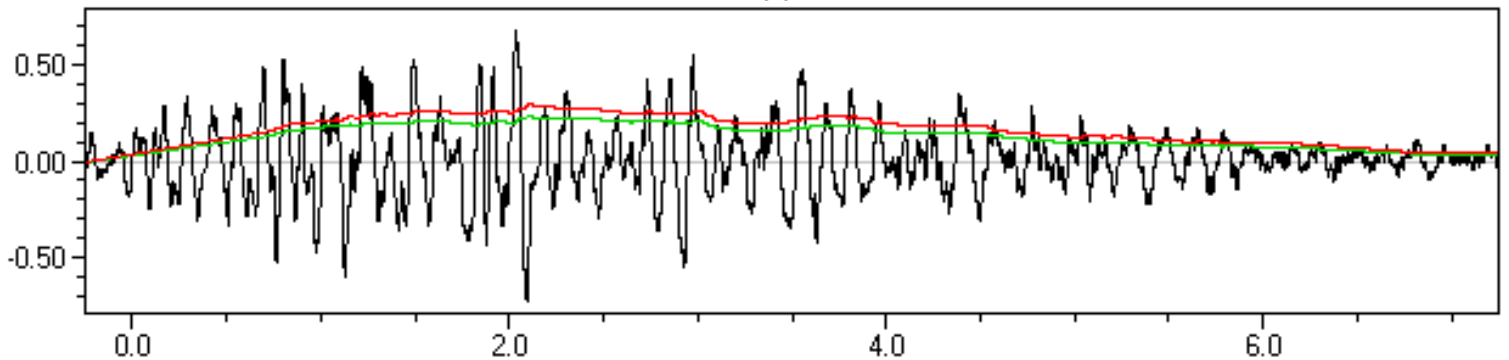
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.444	0.730	0.794	mm/s	
ZC Freq	11	5.4	13	Hz	
Time of Peak	2.189	2.093	0.786	Sec	
Peak Acceleration	0.00663	0.00829	0.00994	g	
Peak Displacement	0.00626	0.0143	0.0187	mm	rms of magnitude
RMS (1s fw 5.6)	0,17	0,23	0,31		0,40
RMS (1s)	0,19	0,30	0,36		0,47

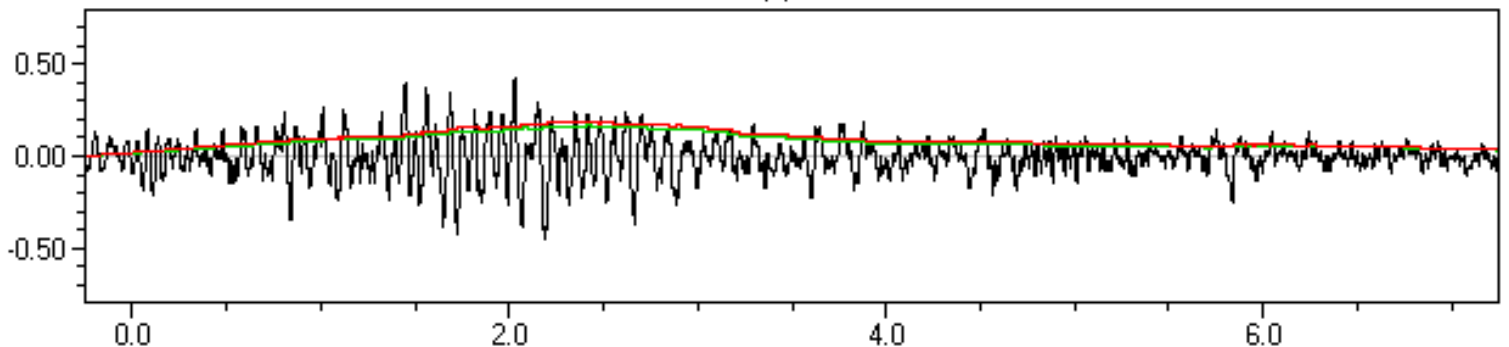
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 22:45:22

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHBj.7M0

Trigger: Long

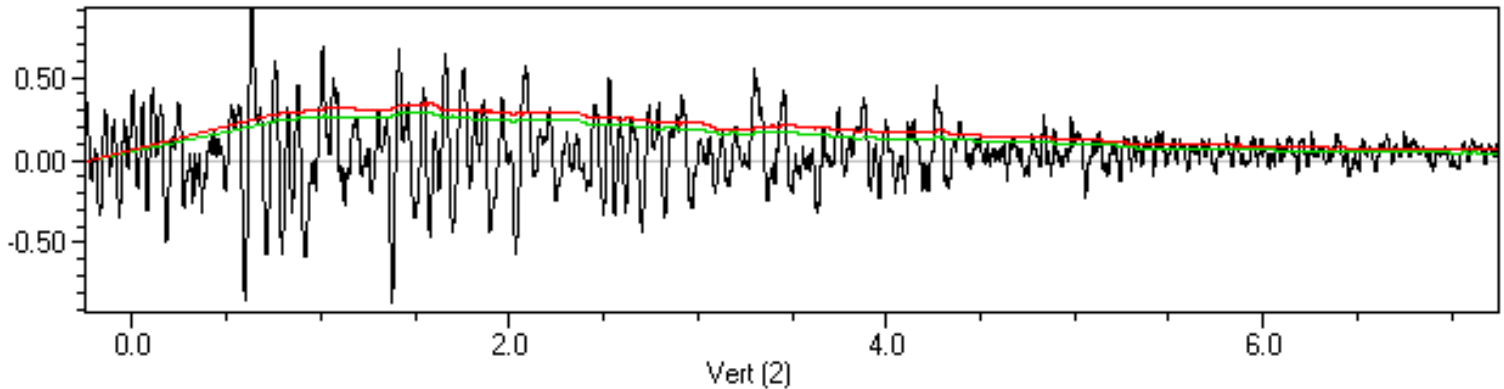
Record Time: 7.25 sec

Sample Rate: 1024 sps

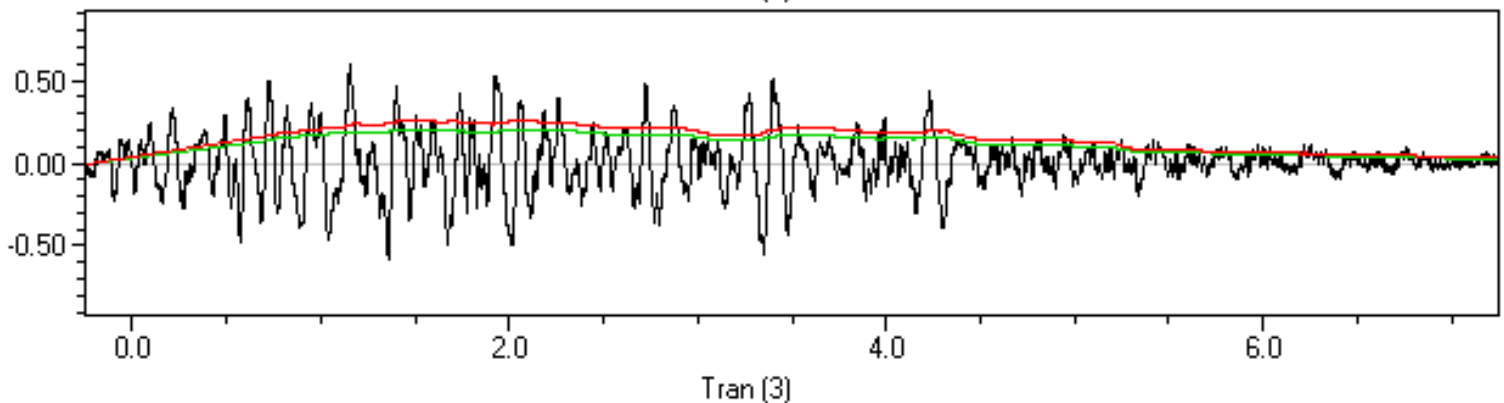
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.413	0.603	0.921	mm/s	
ZC Freq	15	7.0	6.4	Hz	
Time of Peak	0.757	1.155	0.636	Sec	
Peak Acceleration	0.00663	0.00663	0.00994	g	
Peak Displacement	0.00456	0.0121	0.0179	mm	rms of magnitude
RMS (1s fw 5.6)	0,15	0,20	0,29		0,38
RMS (1s)	0,17	0,26	0,34		0,45

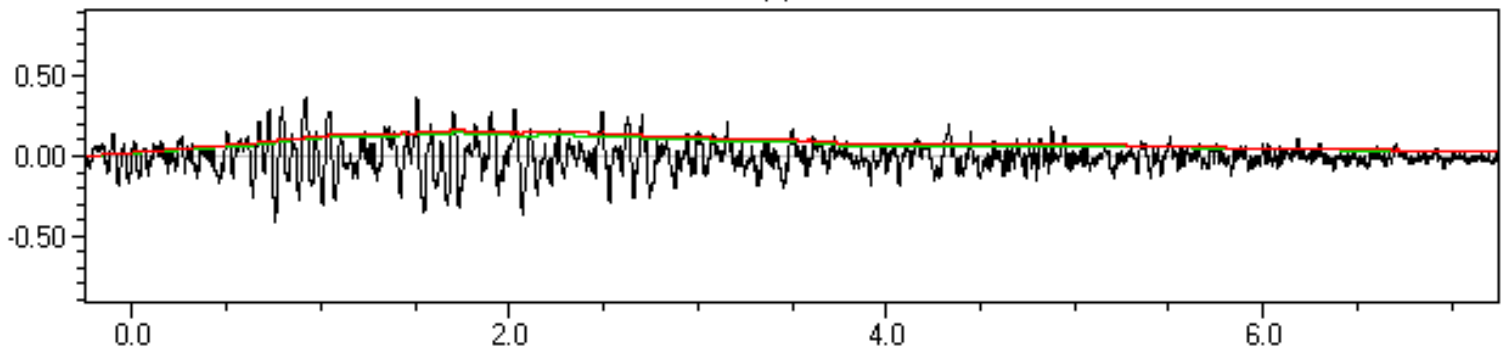
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 01:33:47

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHBR.0B0

Trigger: Long

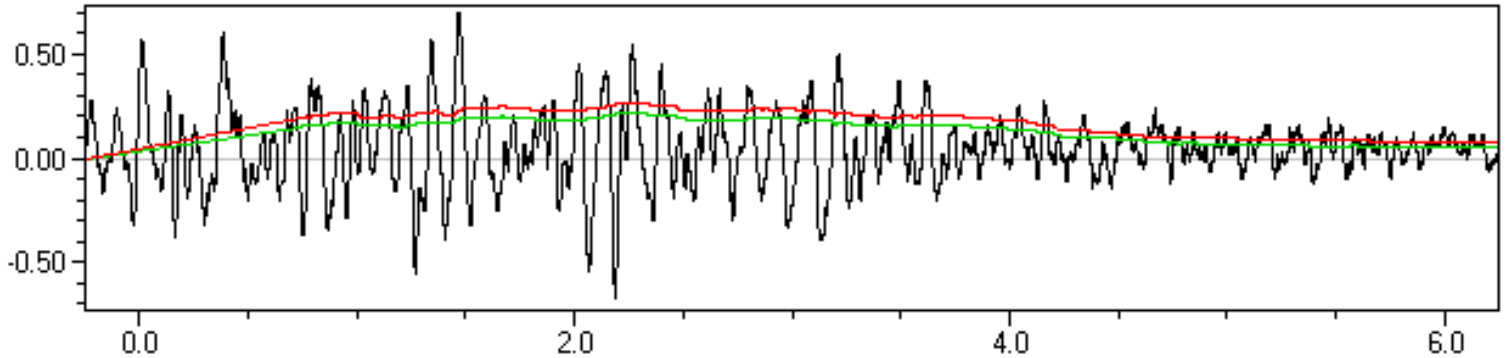
Record Time: 6.25 sec

Sample Rate: 1024 sps

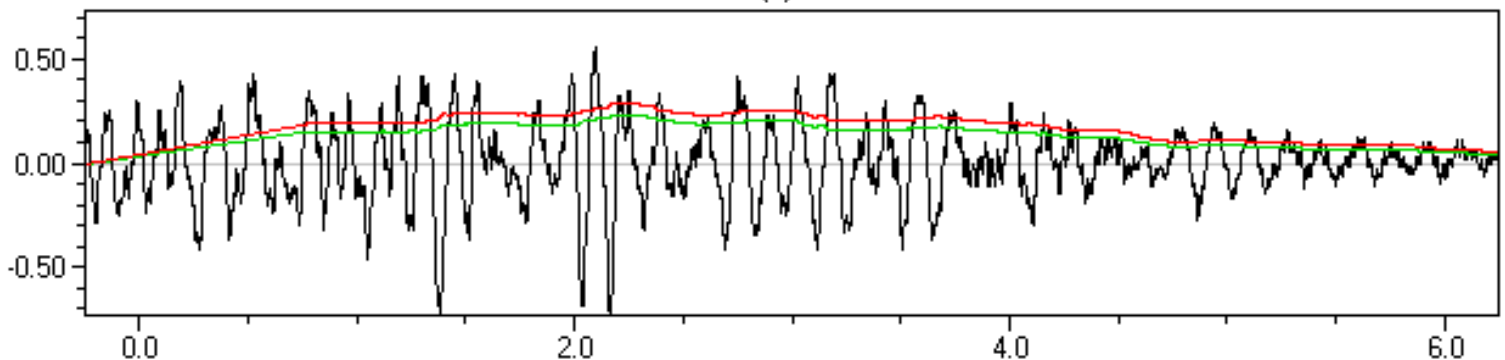
Calibration: April 25, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.333	0.730	0.698	mm/s	
ZC Freq	9.5	7.3	8.0	Hz	
Time of Peak	1.342	1.379	1.466	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00594	0.0148	0.0162	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,23	0,22		0,34
RMS (1s)	0,14	0,29	0,26		0,41

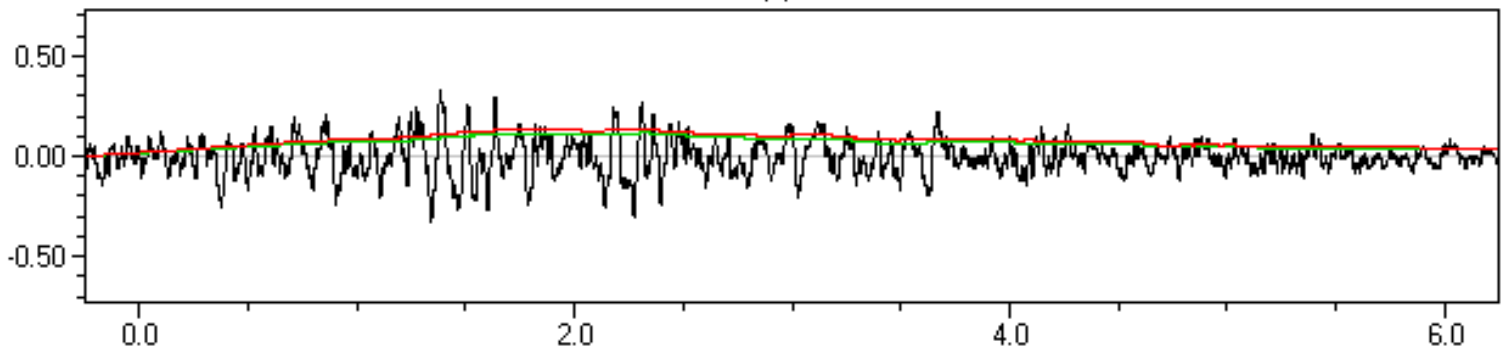
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 02:32:42

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHBT.Q10

Trigger: Long

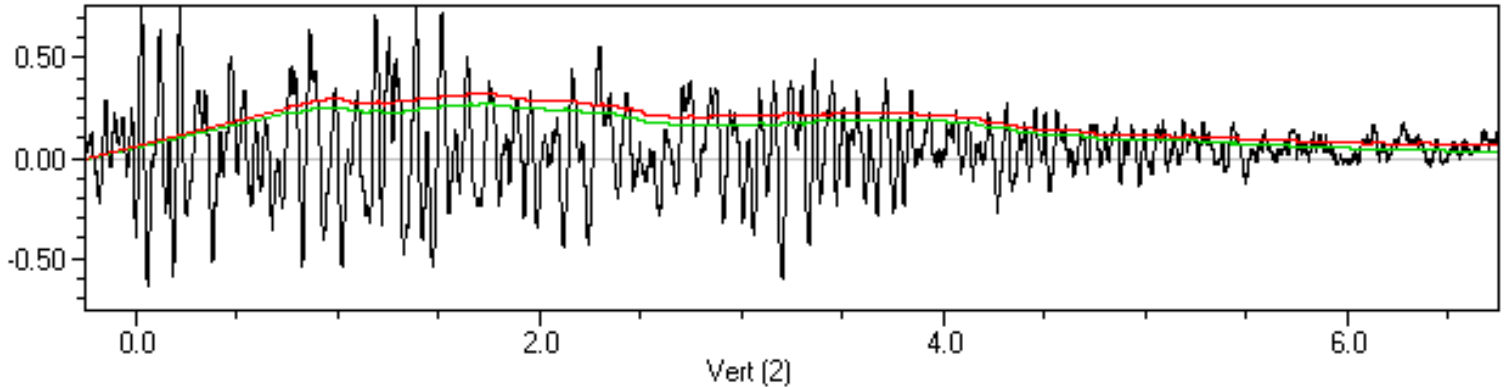
Record Time: 6.75 sec

Sample Rate: 1024 sps

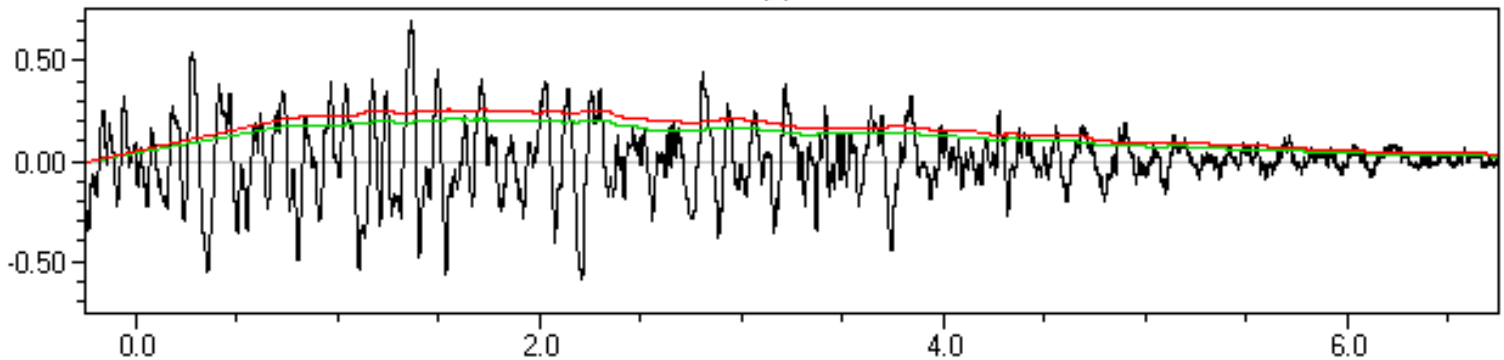
Calibration: April 25, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.540	0.698	0.762	mm/s	
ZC Freq	13	7.6	16	Hz	
Time of Peak	1.514	1.367	0.026	Sec	
Peak Acceleration	0.00663	0.00663	0.00829	g	
Peak Displacement	0.00612	0.0134	0.0148	mm	rms of magnitude
RMS (1s fw 5.6)	0,18	0,21	0,27		0,38
RMS (1s)	0,20	0,26	0,32		0,46

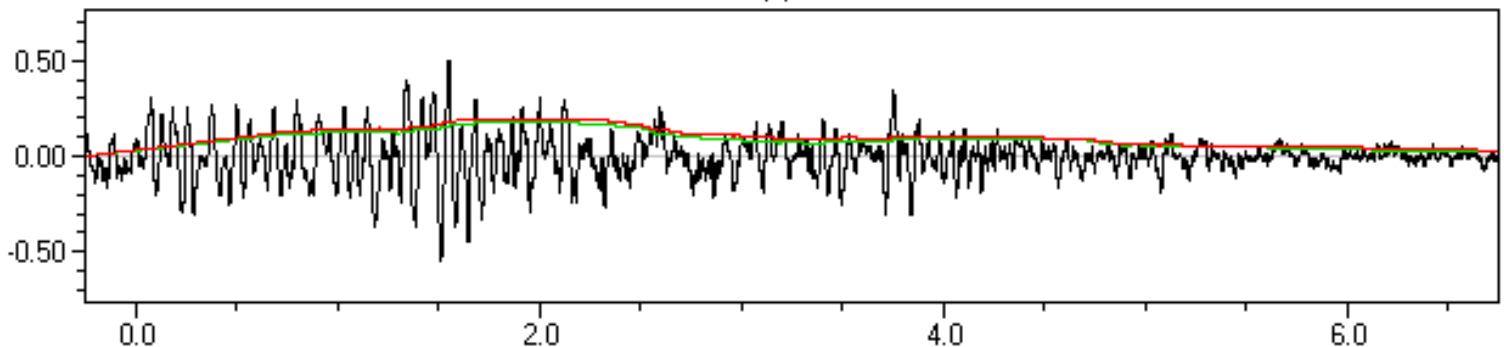
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 03:58:27

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHBX.PF0

Trigger: Long

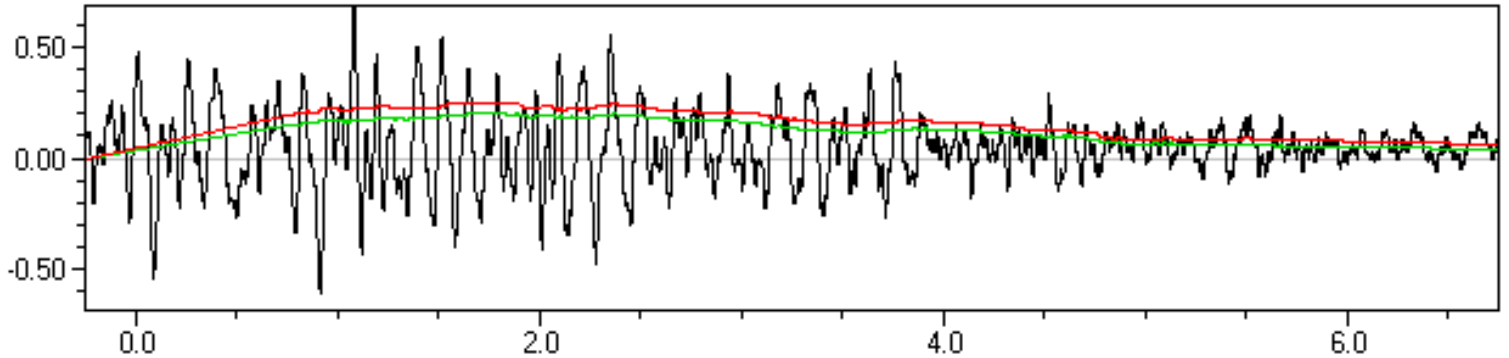
Record Time: 6.75 sec

Sample Rate: 1024 sps

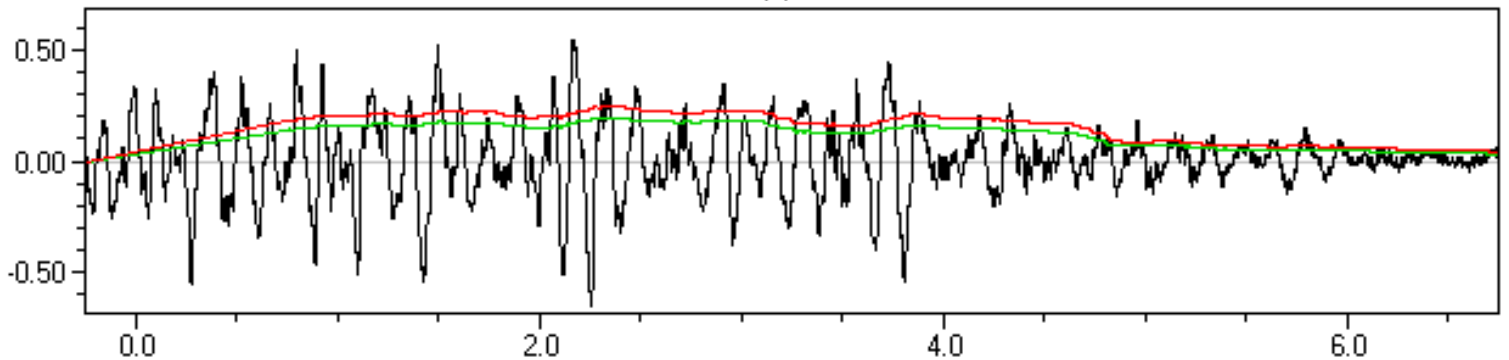
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.397	0.651	0.683	mm/s	
ZC Freq	9.0	9.1	9.5	Hz	
Time of Peak	1.389	2.256	1.078	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00589	0.0119	0.0111	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,20	0,20		0,29
RMS (1s)	0,12	0,25	0,25		0,36

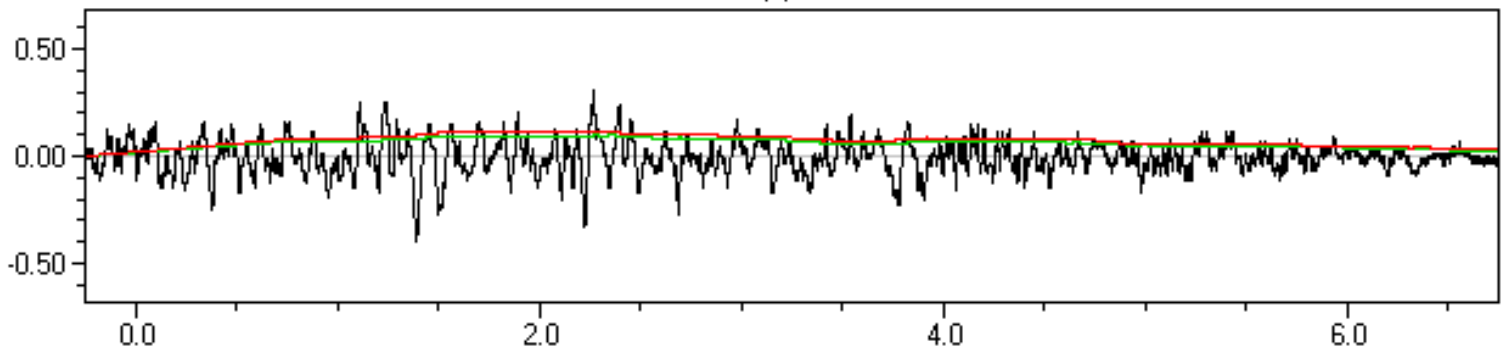
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 04:57:37

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHC0.G10

Trigger: Long

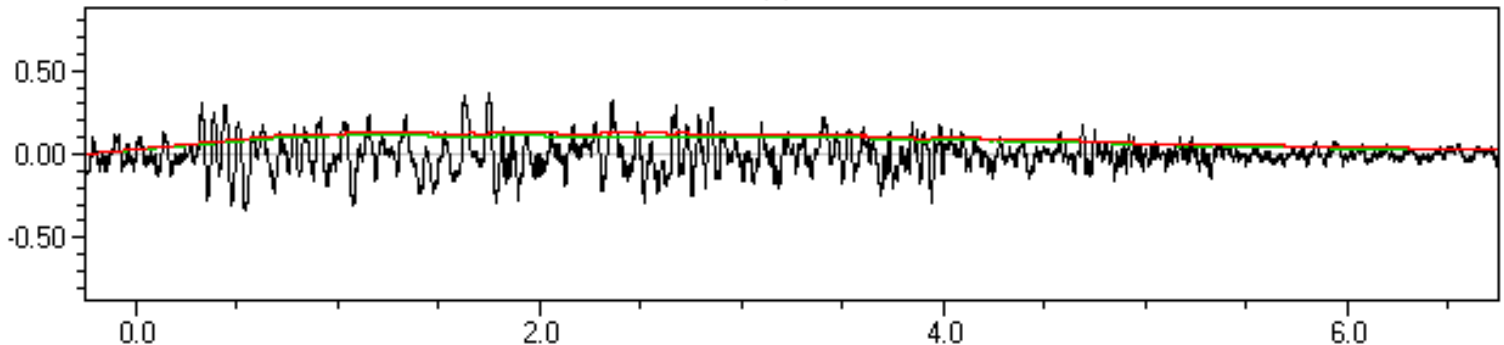
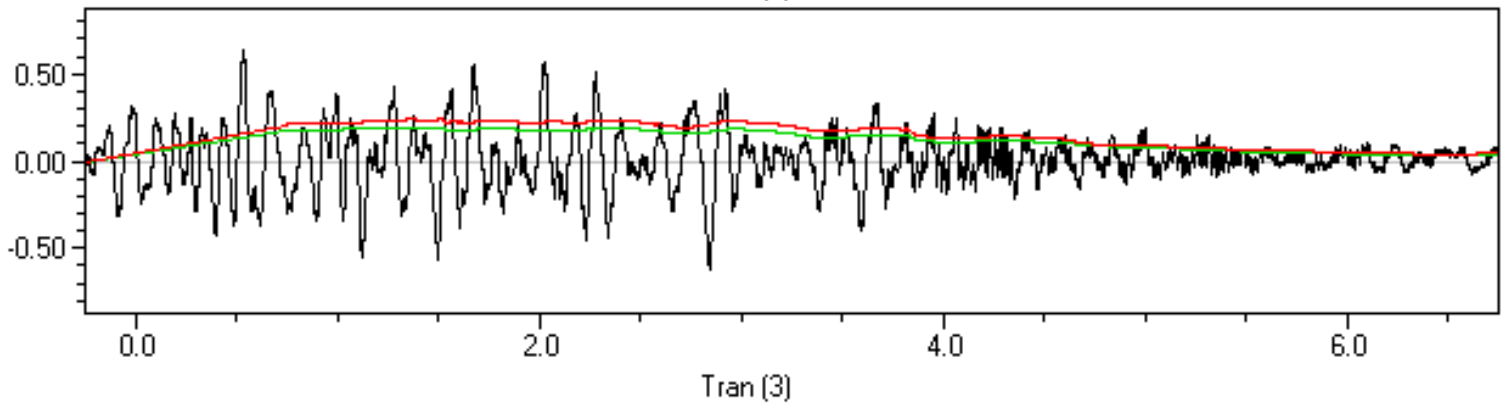
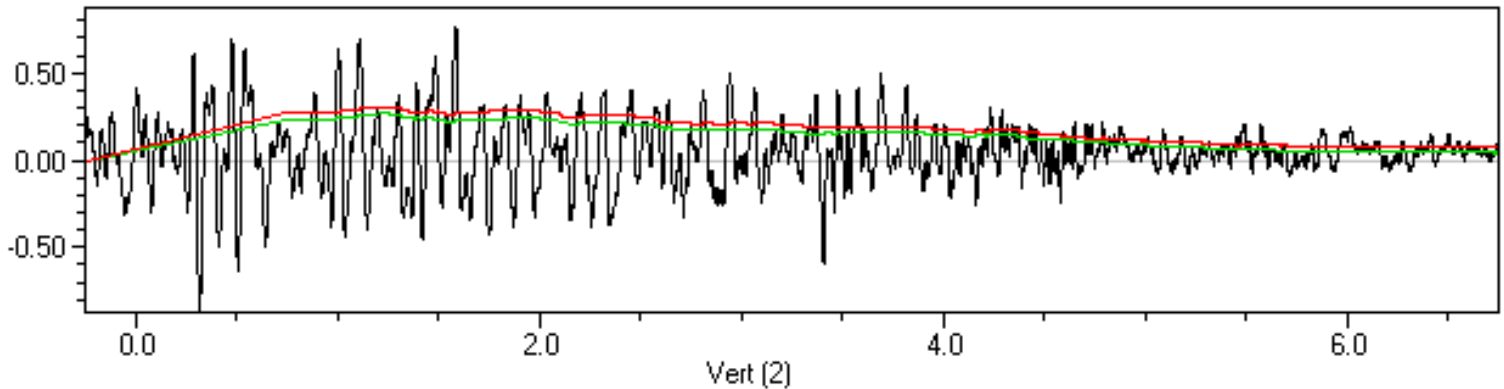
Record Time: 6.75 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.365	0.635	0.873	mm/s	
ZC Freq	11	9.5	14	Hz	
Time of Peak	1.748	0.532	0.317	Sec	
Peak Acceleration	0.00663	0.00663	0.00829	g	
Peak Displacement	0.00567	0.0120	0.0132	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,20	0,27		0,35
RMS (1s)	0,13	0,24	0,31		0,41

Long (1)





Event Date: January 1, 2007

Event Time: 14:45:02

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHCR.N20

Trigger: Long

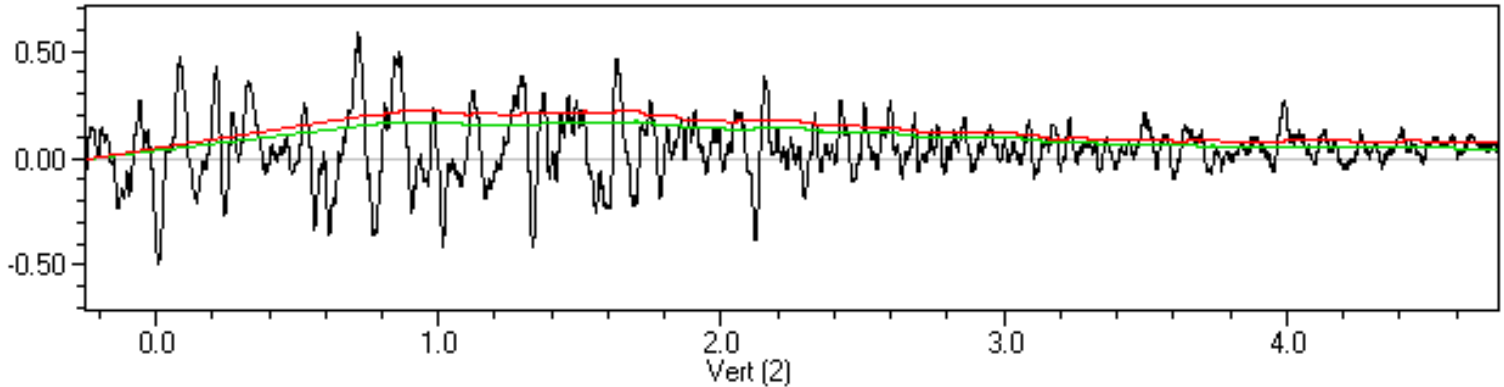
Record Time: 4.75 sec

Sample Rate: 1024 sps

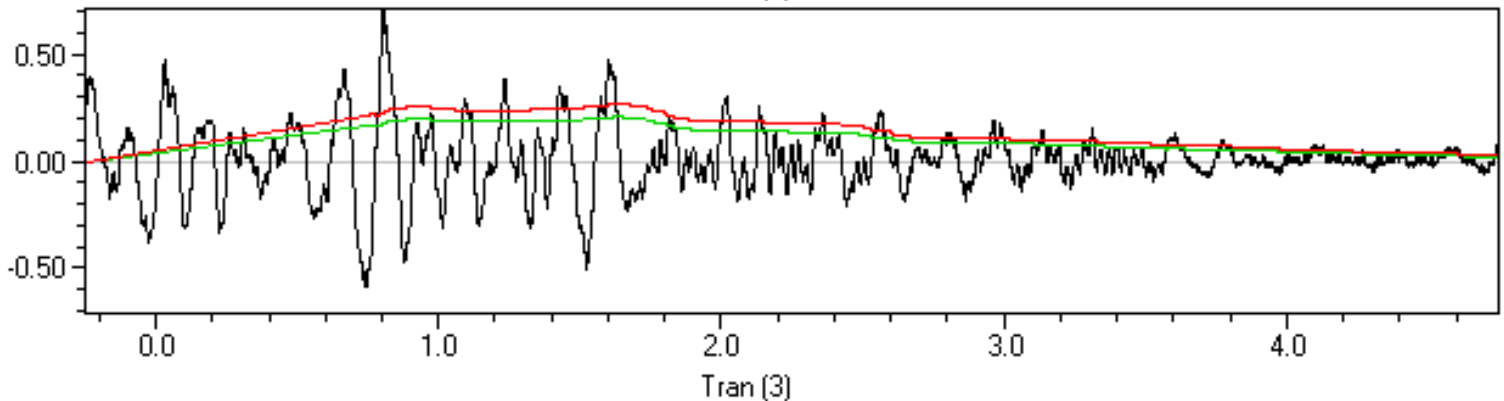
Calibration: April 25, 2006 by Instatel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.349	0.714	0.587	mm/s	
ZC Freq	5.3	6.3	5.8	Hz	
Time of Peak	0.790	0.805	0.717	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00776	0.0155	0.0131	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,21	0,17		0,28
RMS (1s)	0,12	0,27	0,22		0,37

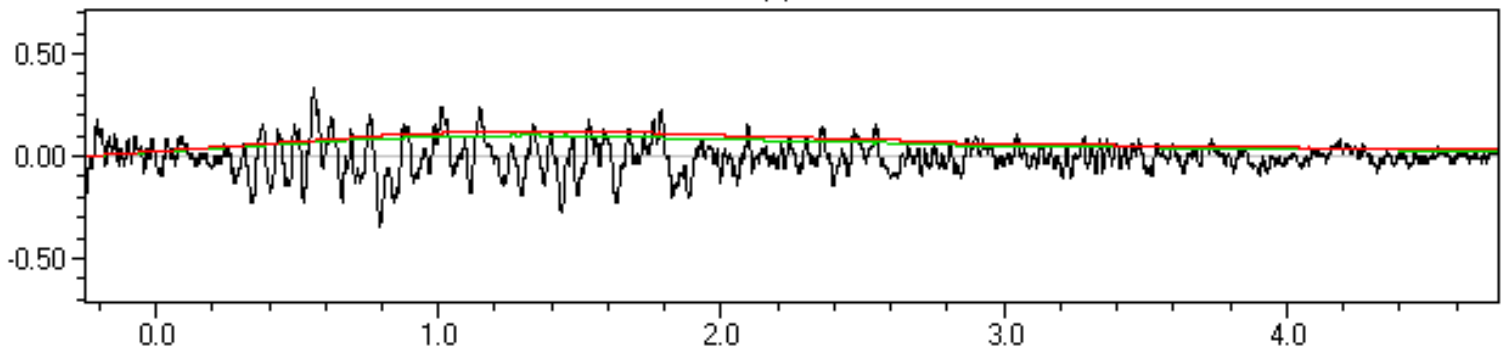
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 06:44:56

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHE0.2W0

Trigger: Vert

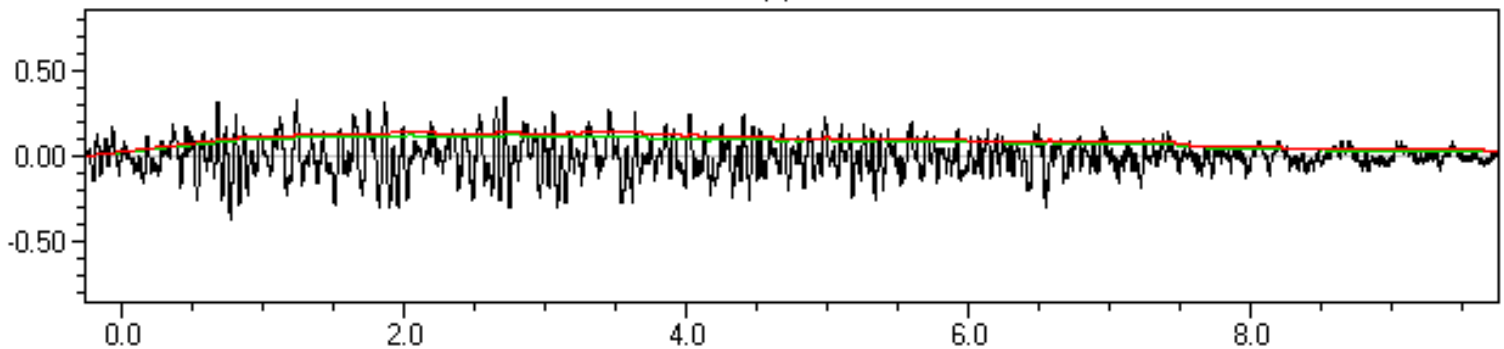
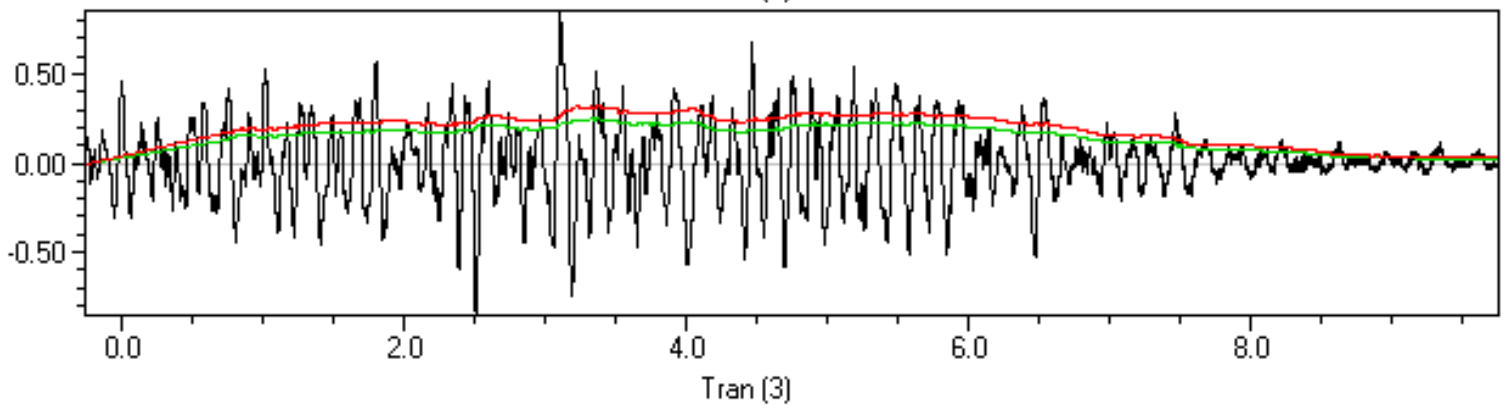
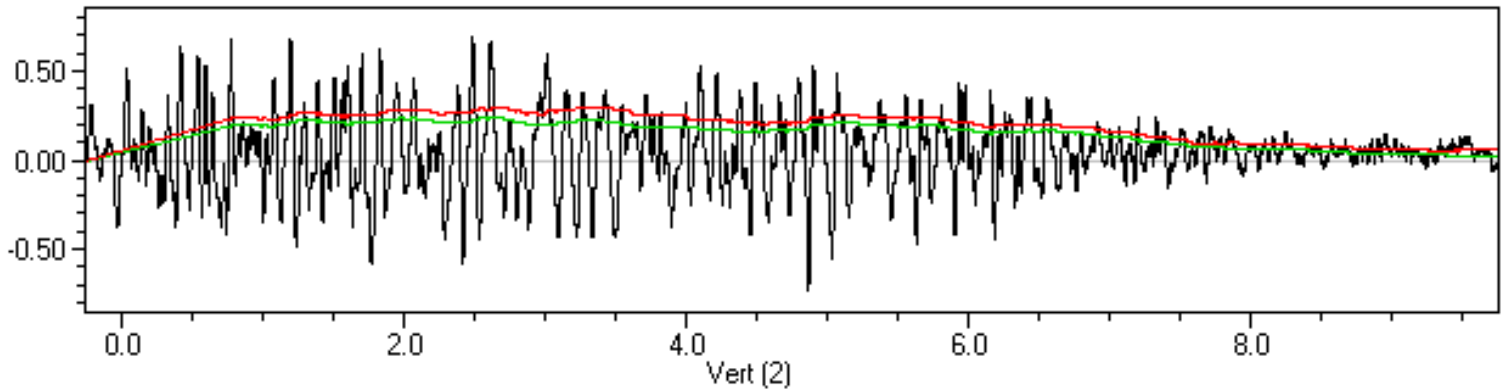
Record Time: 9.75 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.365	0.857	0.730	mm/s	
ZC Freq	12	9.3	13	Hz	
Time of Peak	0.775	2.513	4.868	Sec	
Peak Acceleration	0.00663	0.00994	0.00829	g	
Peak Displacement	0.00542	0.0215	0.0220	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,25	0,24		0,36
RMS (1s)	0,14	0,32	0,30		0,46

Long (1)





Event Date: January 2, 2007

Event Time: 09:46:34

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHE8.HM0

Trigger: Vert

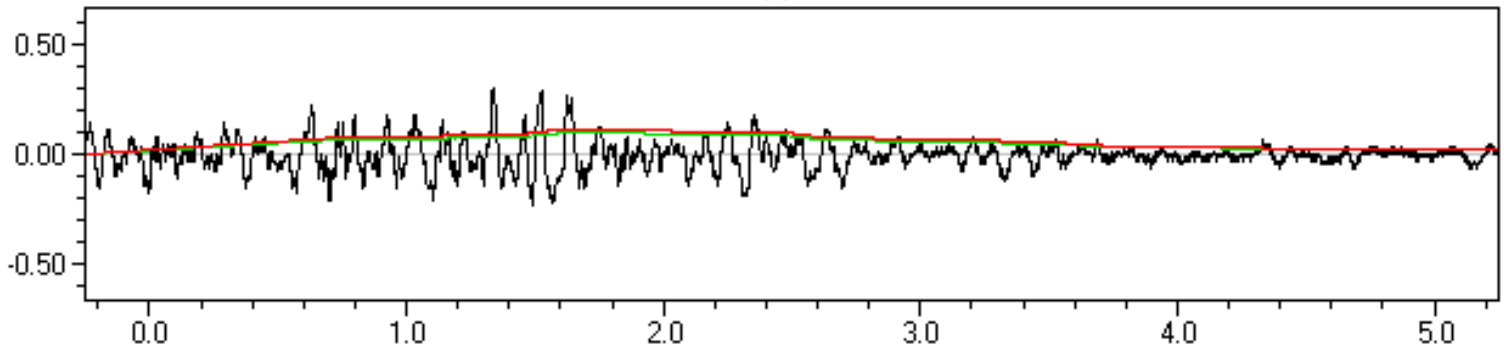
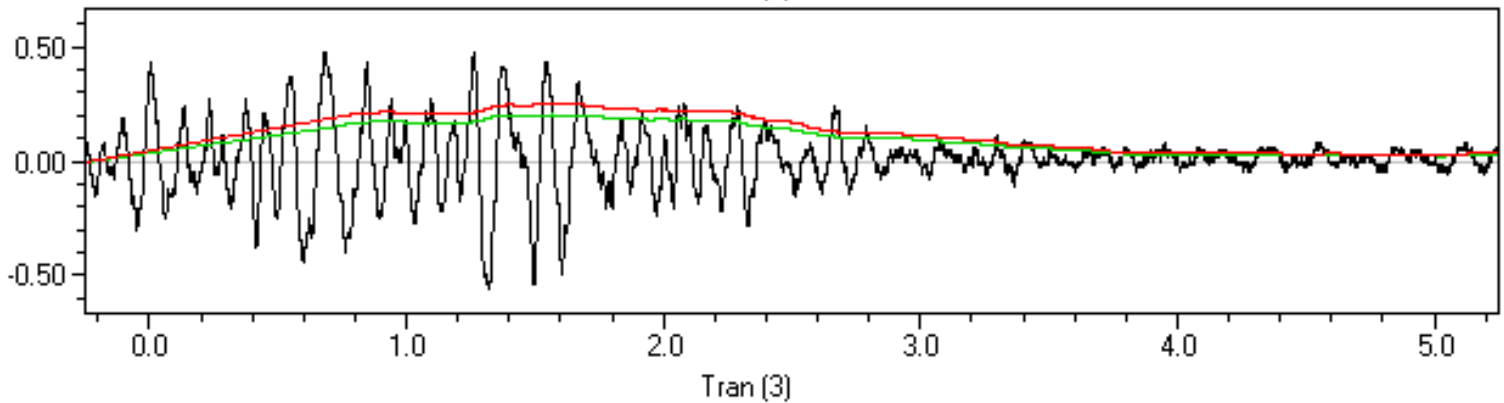
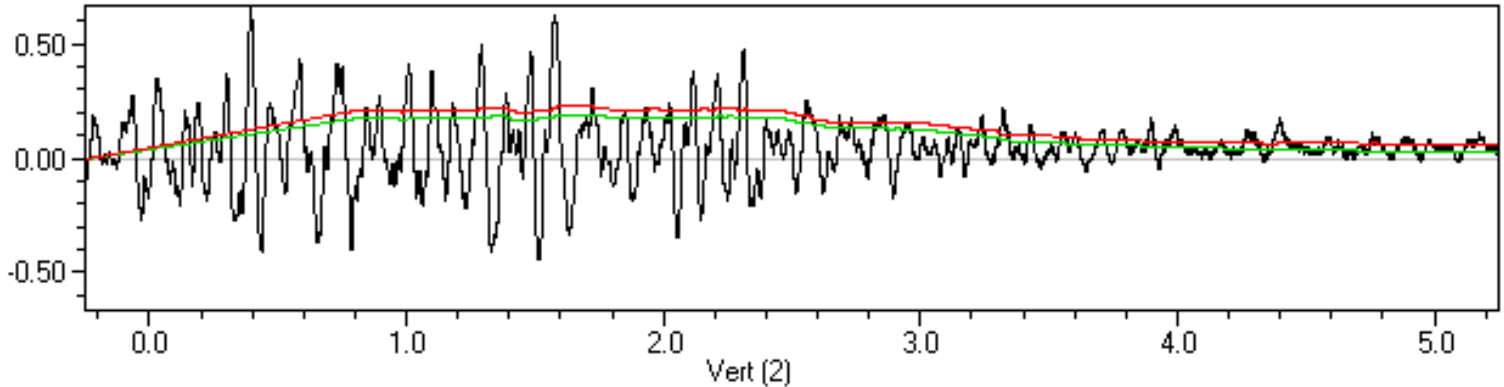
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.302	0.556	0.667	mm/s	
ZC Freq	11	7.5	12	Hz	
Time of Peak	1.337	1.322	0.395	Sec	
Peak Acceleration	0.00497	0.00663	0.00829	g	
Peak Displacement	0.00489	0.0123	0.0109	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,20	0,19		0,29
RMS (1s)	0,11	0,25	0,23		0,36

Long (1)





Event Date: January 3, 2007

Event Time: 08:33:07

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHFZ.R70

Trigger: Long

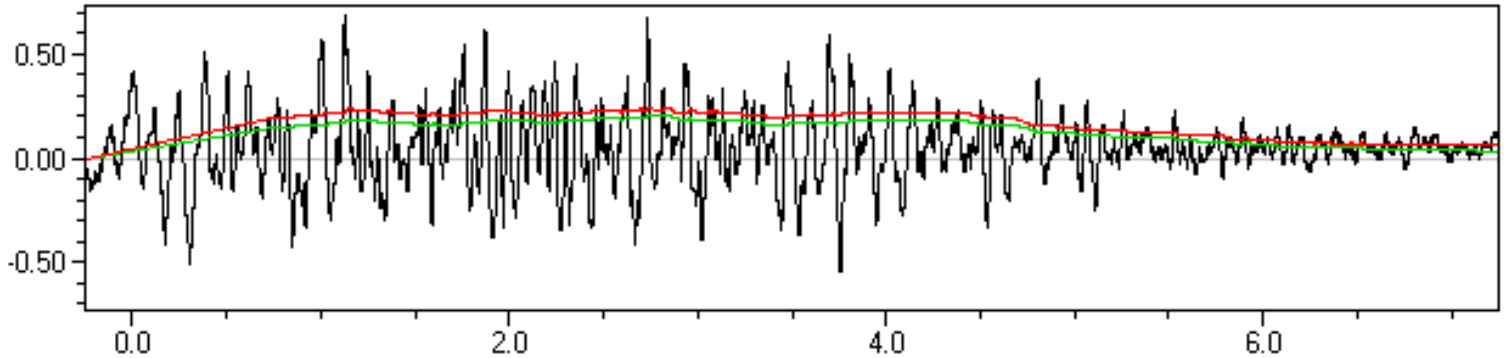
Record Time: 7.25 sec

Sample Rate: 1024 sps

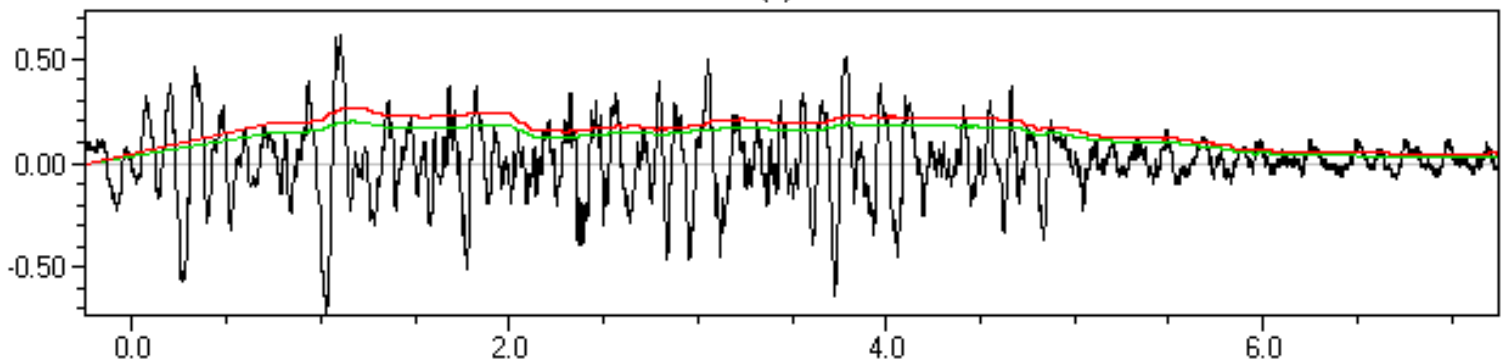
Calibration: April 25, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.397	0.730	0.683	mm/s	
ZC Freq	13	6.0	8.0	Hz	
Time of Peak	2.122	1.026	1.126	Sec	
Peak Acceleration	0.00829	0.00829	0.00829	g	
Peak Displacement	0.00528	0.0170	0.0129	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,20	0,21		0,28
RMS (1s)	0,13	0,26	0,24		0,37

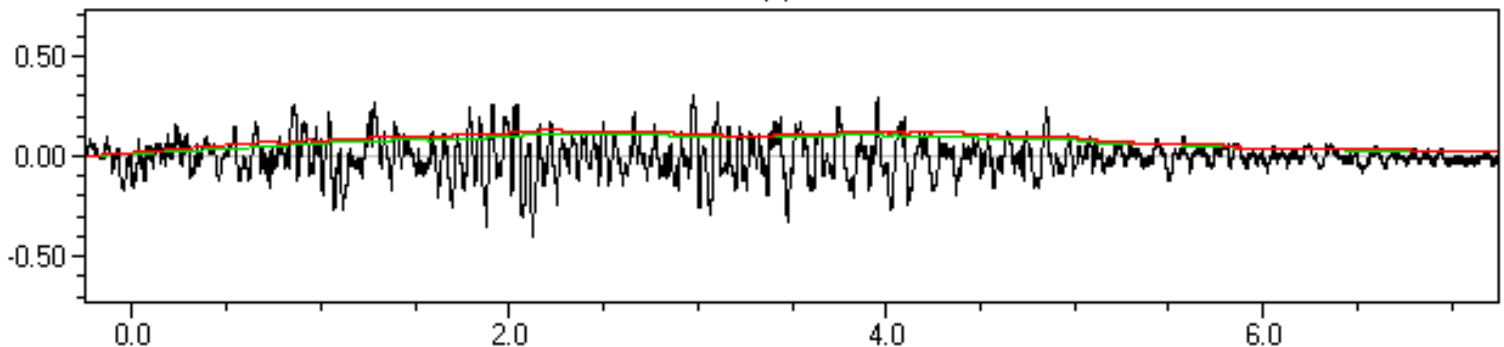
Long (1)



Vert (2)



Tran (3)





Event Date: January 4, 2007

Event Time: 02:31:39

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11156, V 8.01-8.0 MiniMate Plus

File Name: M156BHHD.OR0

Trigger: Vert

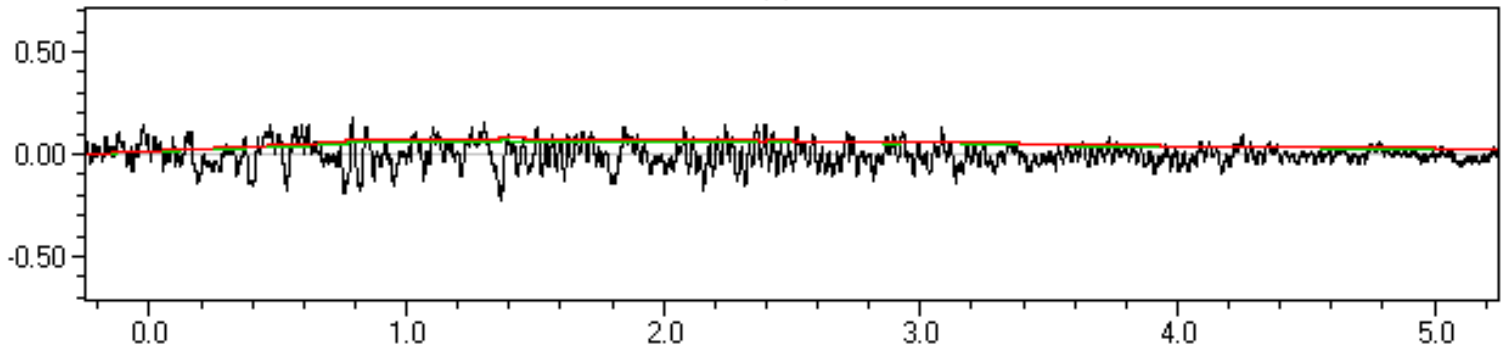
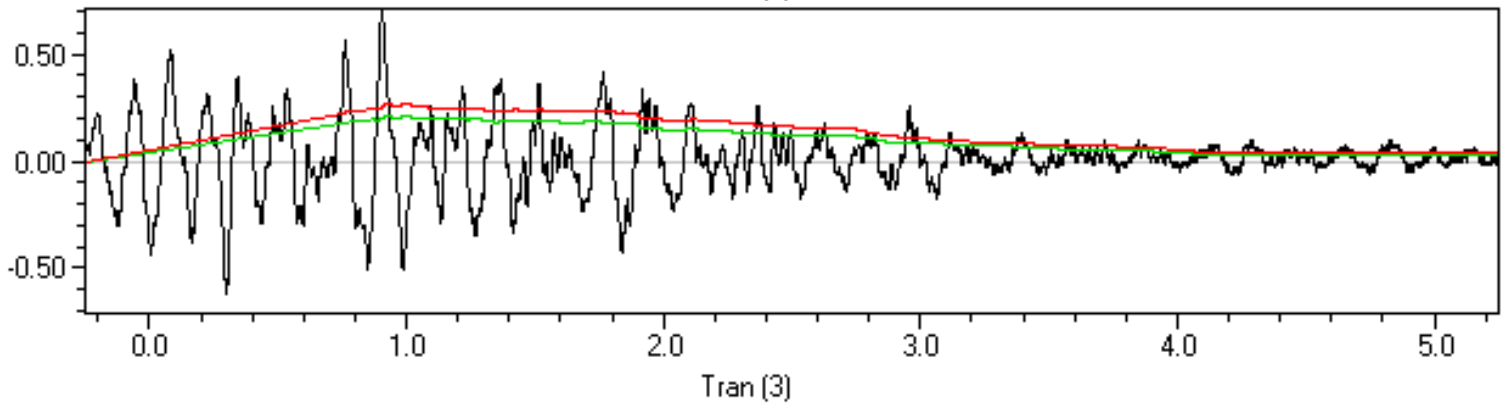
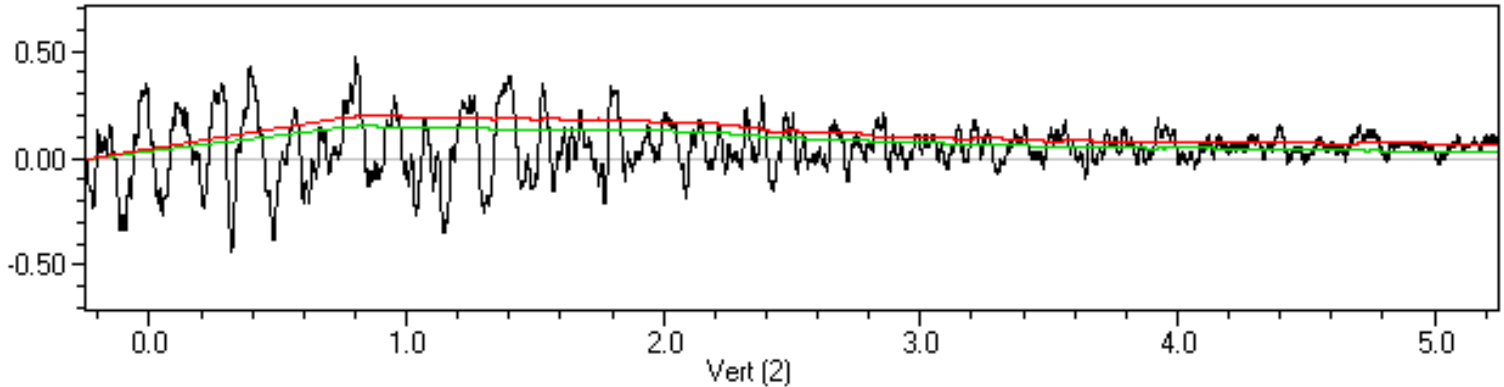
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: April 25, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.222	0.714	0.476	mm/s	
ZC Freq	10	6.4	5.1	Hz	
Time of Peak	1.363	0.903	0.803	Sec	
Peak Acceleration	0.00497	0.00663	0.00829	g	
Peak Displacement	0.00355	0.0132	0.0123	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,21	0,15		0,26
RMS (1s)	0,08	0,27	0,20		0,34

Long (1)





Event Date: December 29, 2006

Event Time: 17:55:14

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BH7G.G20

Trigger: Vert

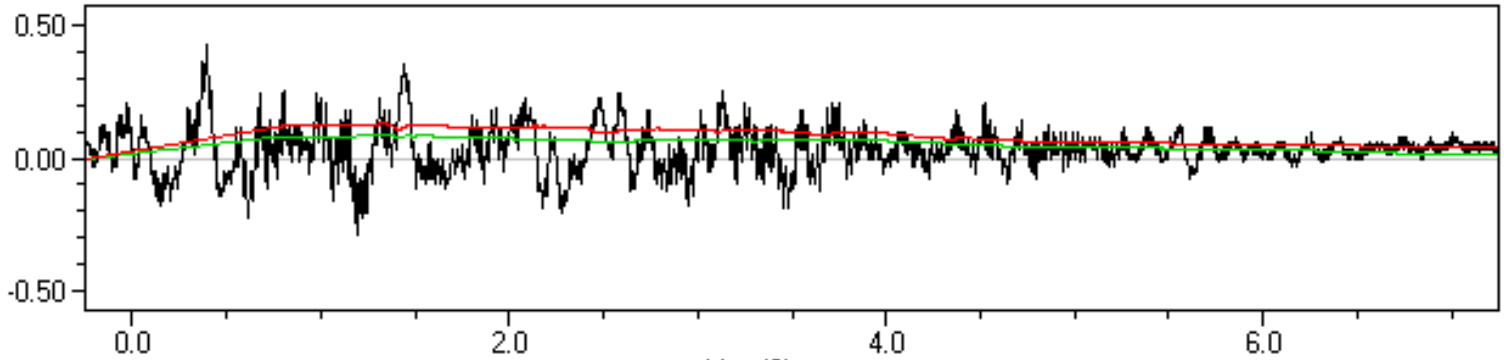
Record Time: 7.25 sec

Sample Rate: 1024 sps

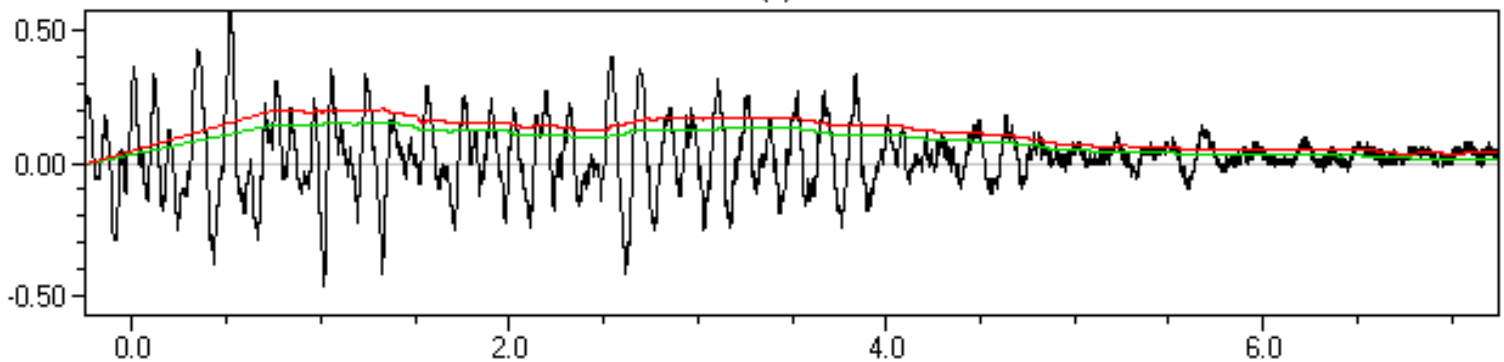
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.270	0.571	0.429	mm/s	
ZC Freq	2.9	7.2	5.2	Hz	
Time of Peak	1.133	0.517	0.395	Sec	
Peak Acceleration	0.00497	0.00497	0.00663	g	
Peak Displacement	0.0134	0.0113	0.0113	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,15	0,09		0,18
RMS (1s)	0,10	0,20	0,13		0,26

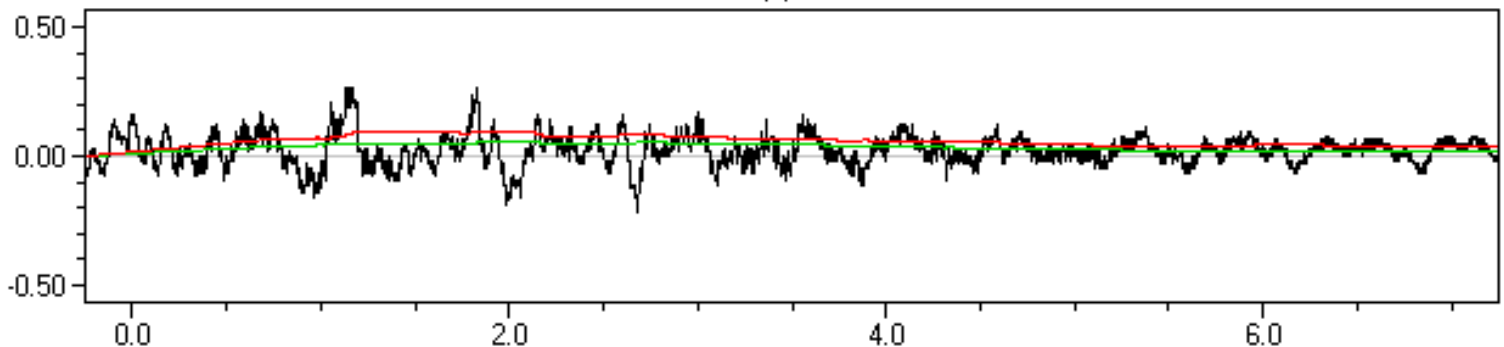
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 03:56:34

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHA2.YA0

Trigger: Long

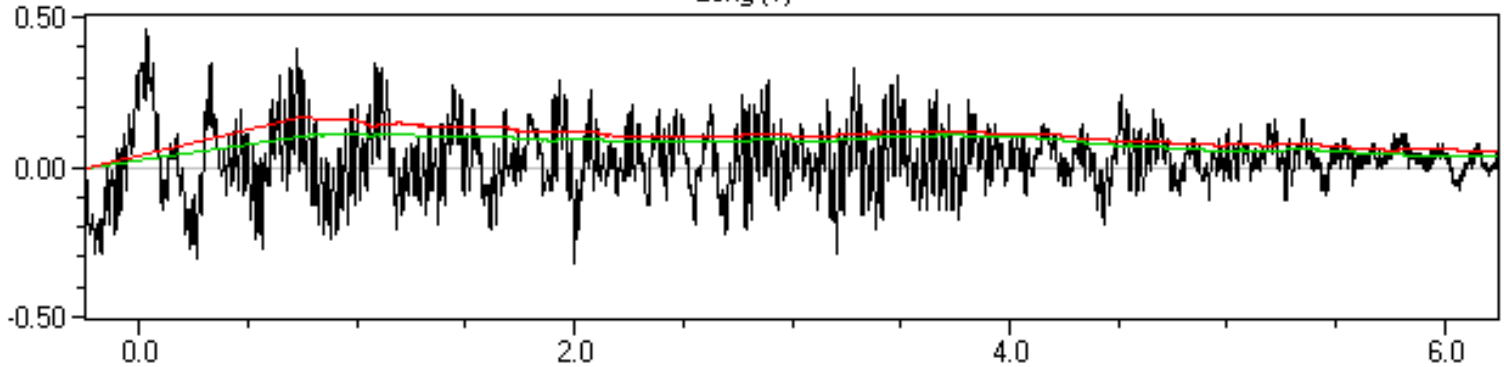
Record Time: 6.25 sec

Sample Rate: 1024 sps

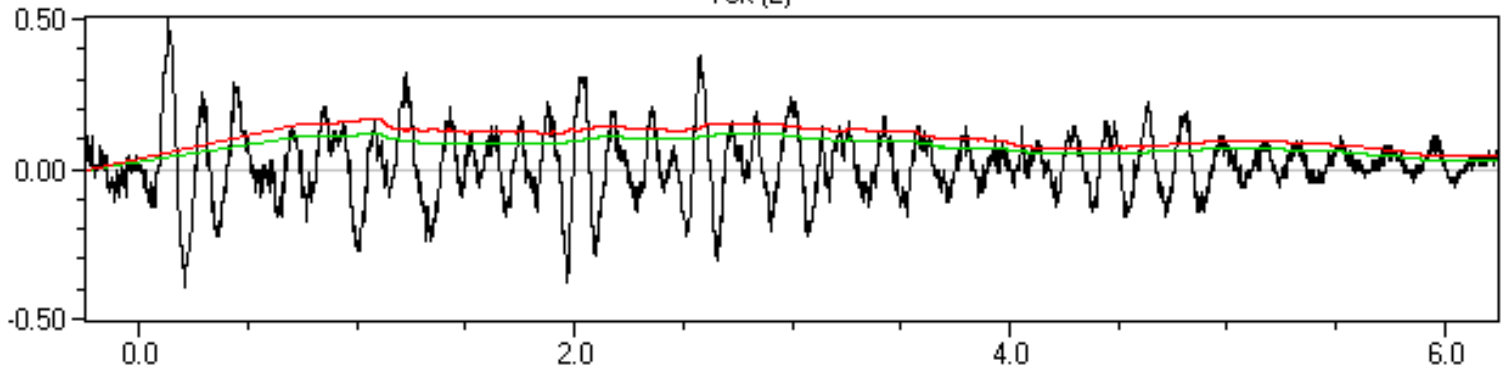
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.222	0.508	0.460	mm/s	
ZC Freq	5.6	6.2	3.4	Hz	
Time of Peak	2.602	0.134	0.034	Sec	
Peak Acceleration	0.00663	0.00497	0.00829	g	
Peak Displacement	0.00583	0.0120	0.0167	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,12	0,11		0,17
RMS (1s)	0,09	0,16	0,17		0,24

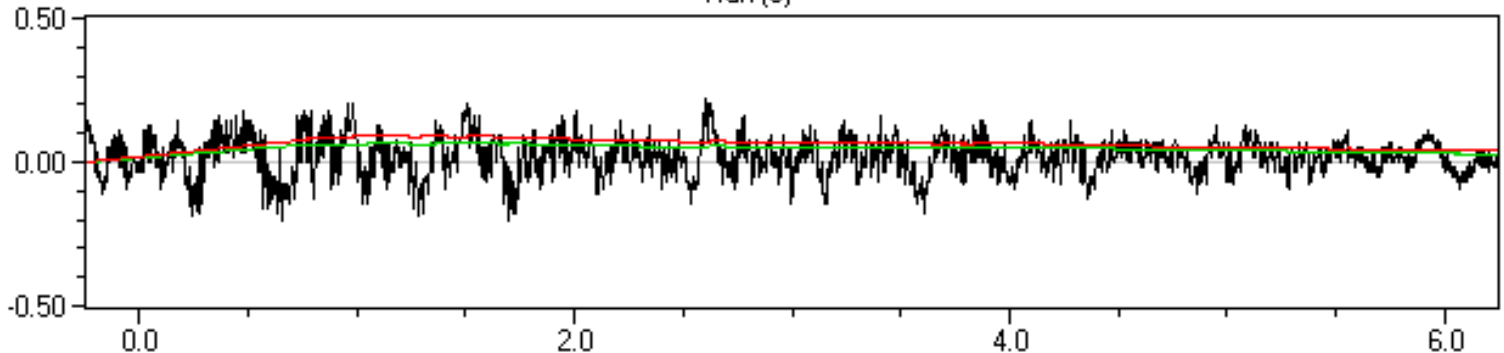
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

Event Time: 08:56:39

File Name: M630BHAG.UF0

Location: Kirkkonummi Liikennetarina

Trigger: Long

Client: SITO

Record Time: 5.25 sec

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Sample Rate: 1024 sps

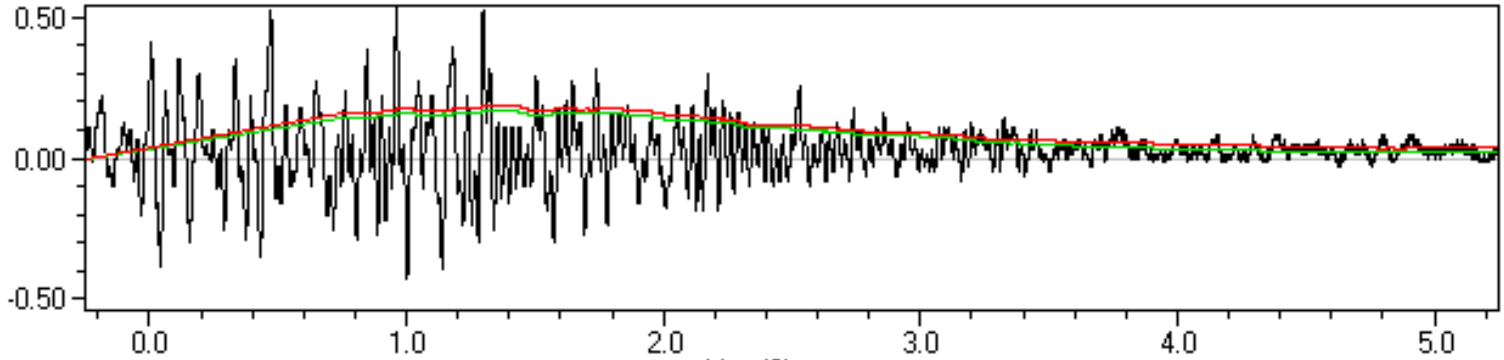
Job Number: 5296

Calibration: September 13, 2006 by Instancel Inc.

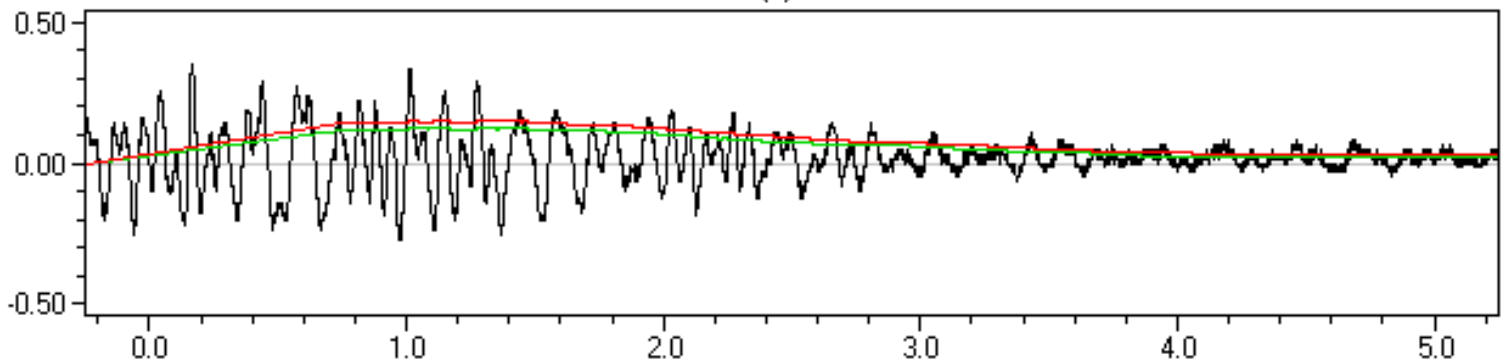
Extended Notes:

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.302	0.349	0.540	mm/s	
ZC Freq	13	14	20	Hz	
Time of Peak	-0.074	0.165	0.960	Sec	
Peak Acceleration	0.00497	0.00663	0.00829	g	
Peak Displacement	0.00427	0.00822	0.00634	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,12	0,17		0,22
RMS (1s)	0,09	0,15	0,19		0,25

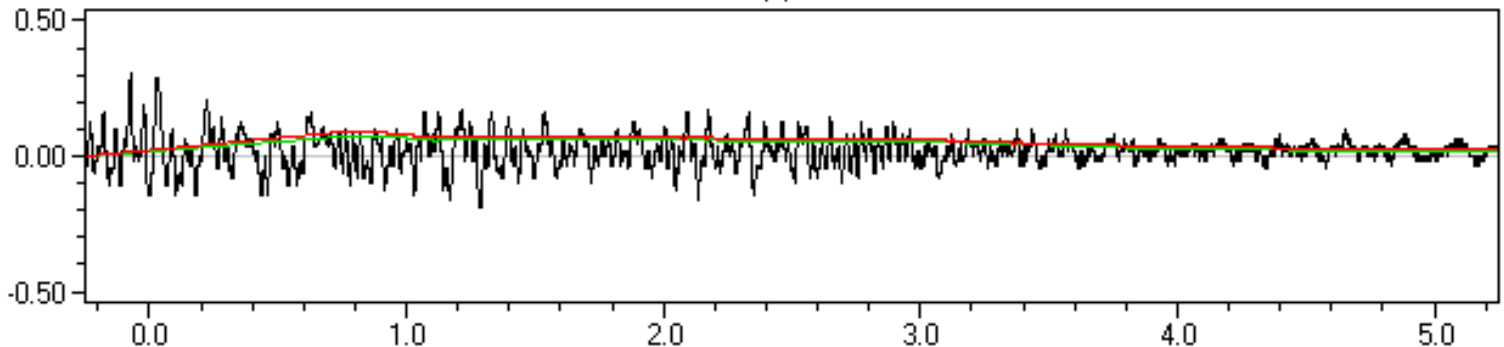
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 14:45:22

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHAW.ZM0

Trigger: Long

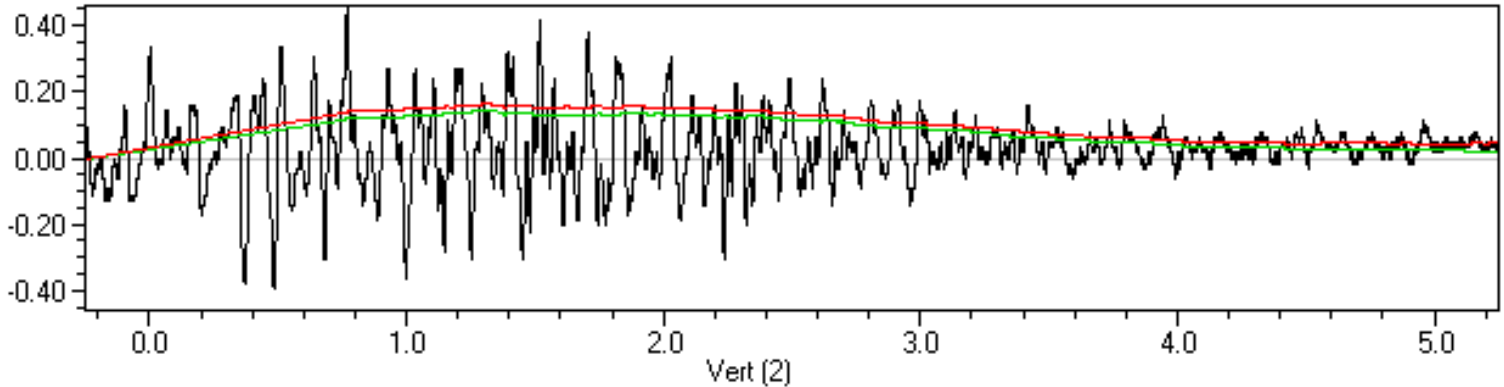
Record Time: 5.25 sec

Sample Rate: 1024 sps

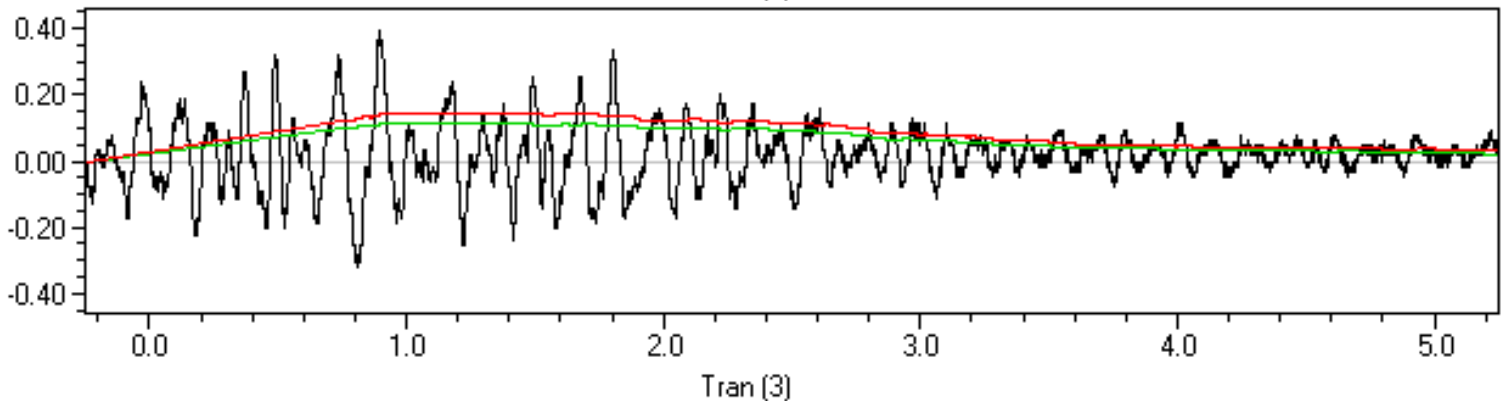
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.286	0.397	0.460	mm/s	
ZC Freq	20	7.0	7.4	Hz	
Time of Peak	2.307	0.894	0.770	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00262	0.00791	0.00629	mm	rms of magnitude
RMS (1s fw 5.6)	0,08	0,12	0,14		0,20
RMS (1s)	0,08	0,15	0,16		0,23

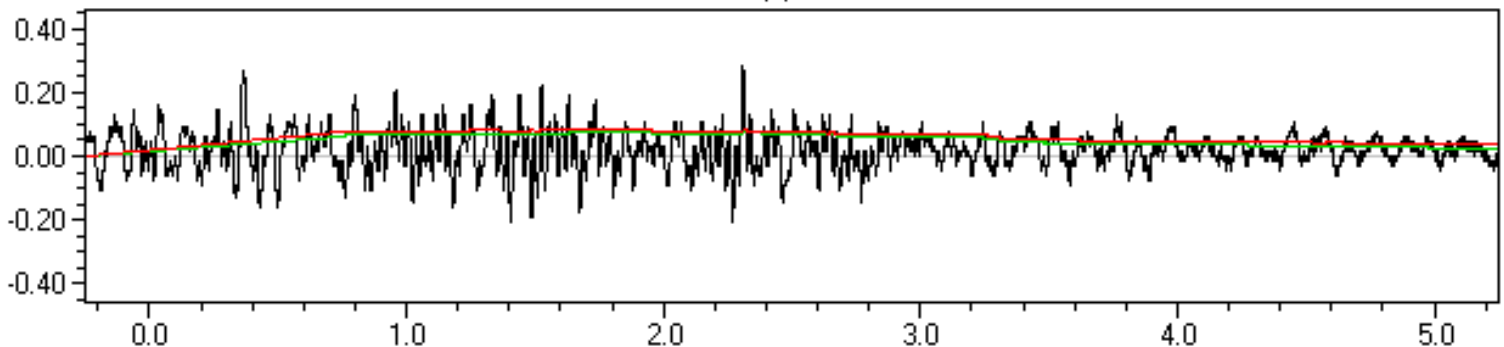
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 20:45:04

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHBD.N40

Trigger: Long

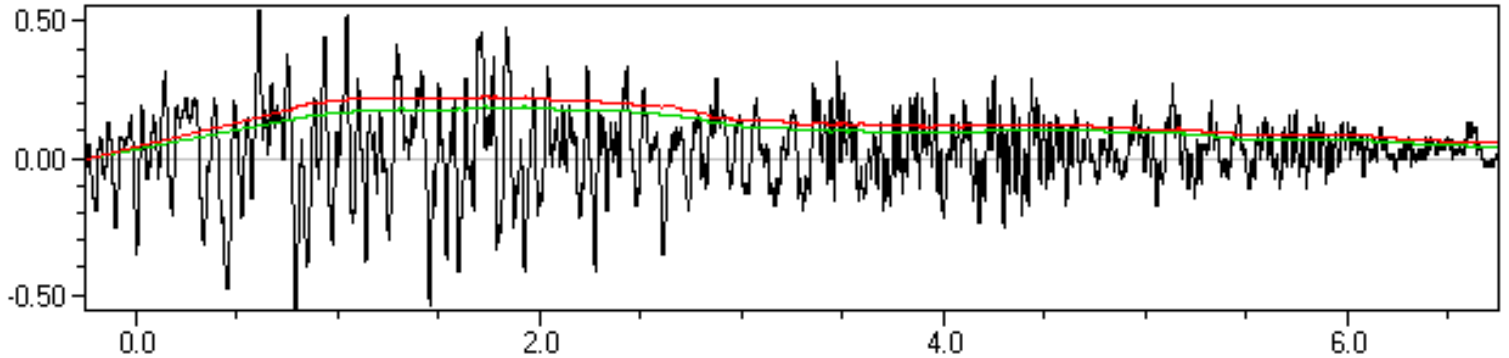
Record Time: 6.75 sec

Sample Rate: 1024 sps

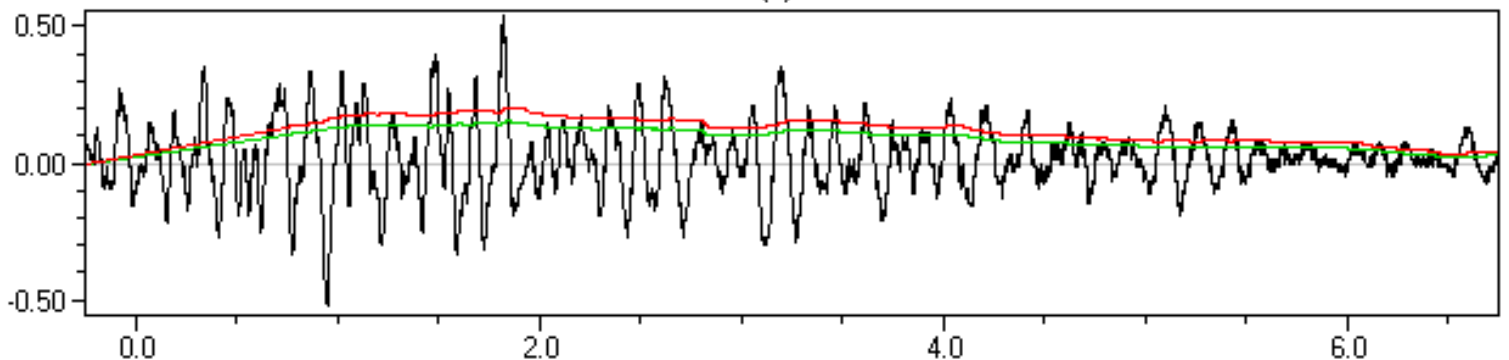
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.286	0.540	0.556	mm/s	
ZC Freq	13	6.9	12	Hz	
Time of Peak	1.442	1.817	0.791	Sec	
Peak Acceleration	0.00497	0.00497	0.00829	g	
Peak Displacement	0.00614	0.0107	0.0119	mm	rms of magnitude
RMS (1s fw 5.6)	0,09	0,15	0,19		0,25
RMS (1s)	0,10	0,20	0,23		0,31

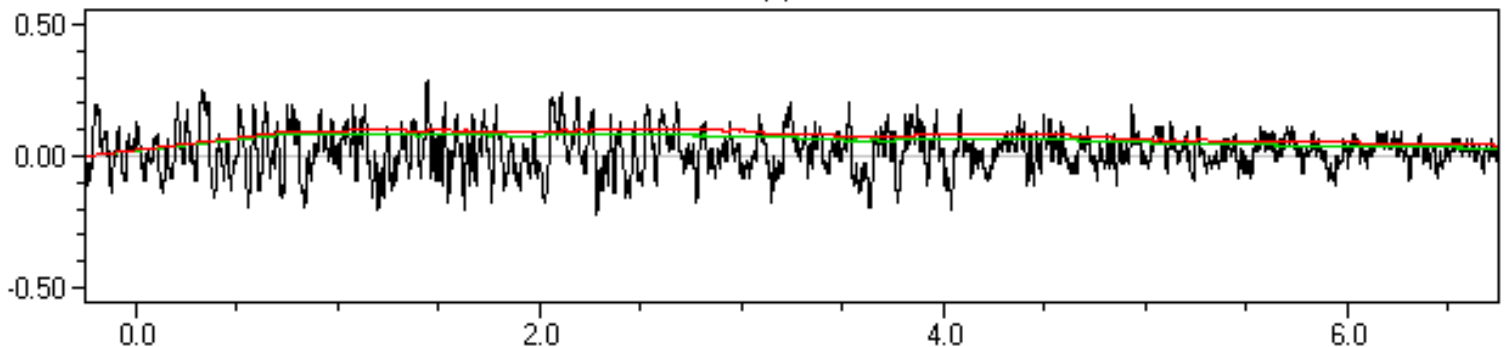
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 22:45:23

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHBj.7N0

Trigger: Long

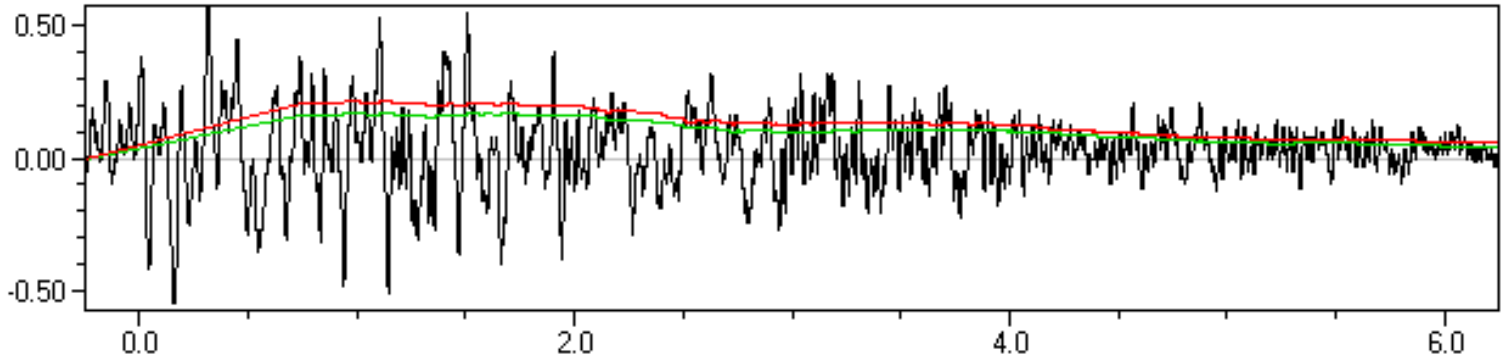
Record Time: 6.25 sec

Sample Rate: 1024 sps

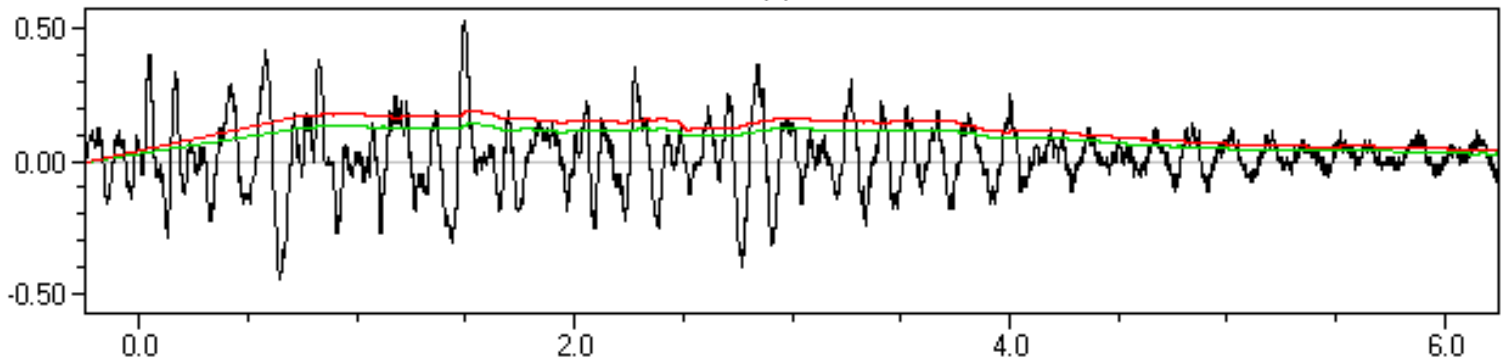
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.333	0.524	0.571	mm/s	
ZC Freq	20	7.0	8.8	Hz	
Time of Peak	1.215	1.494	0.314	Sec	
Peak Acceleration	0.00663	0.00497	0.00829	g	
Peak Displacement	0.00497	0.0109	0.0115	mm	rms of magnitude
RMS (1s fw 5.6)	0,09	0,14	0,17		0,23
RMS (1s)	0,11	0,19	0,22		0,30

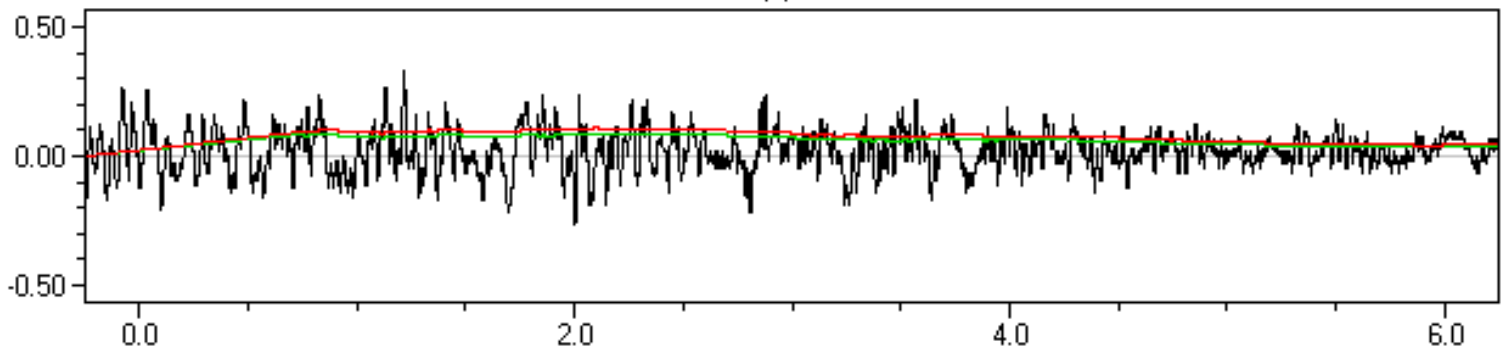
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 01:33:47

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHBR.0B0

Trigger: Long

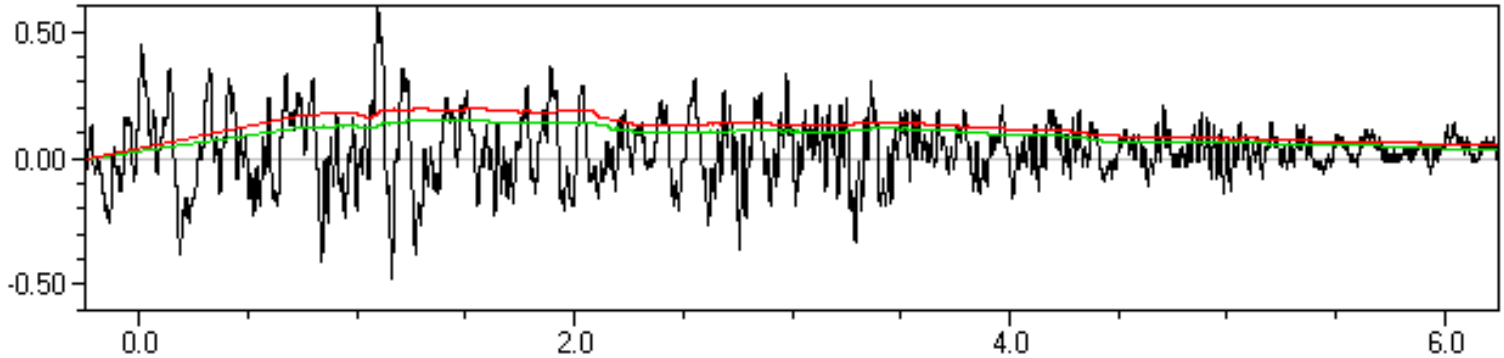
Record Time: 6.25 sec

Sample Rate: 1024 sps

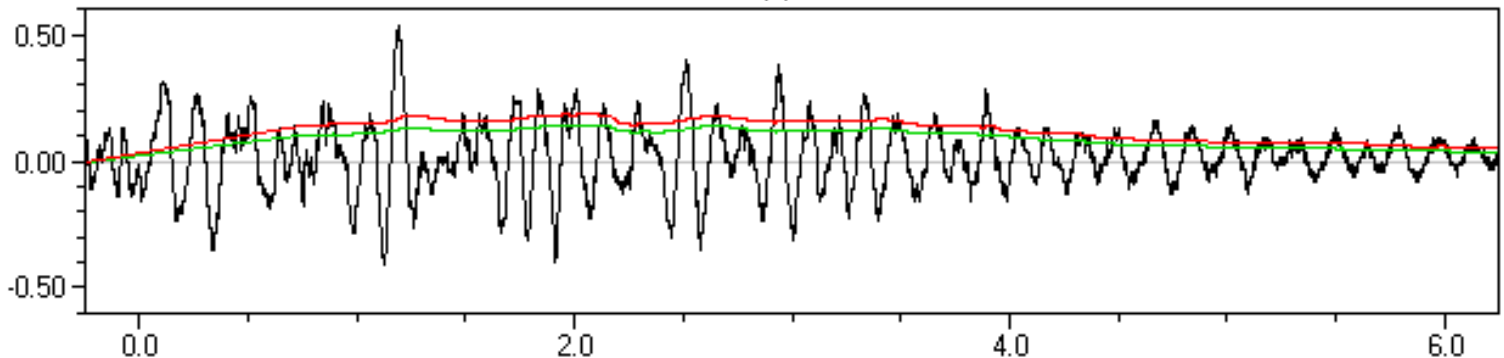
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.286	0.540	0.603	mm/s	
ZC Freq	6.9	6.7	6.9	Hz	
Time of Peak	1.467	1.190	1.092	Sec	
Peak Acceleration	0.00497	0.00663	0.00829	g	
Peak Displacement	0.00589	0.0126	0.0123	mm	rms of magnitude
RMS (1s fw 5.6)	0,08	0,14	0,15		0,22
RMS (1s)	0,10	0,19	0,20		0,28

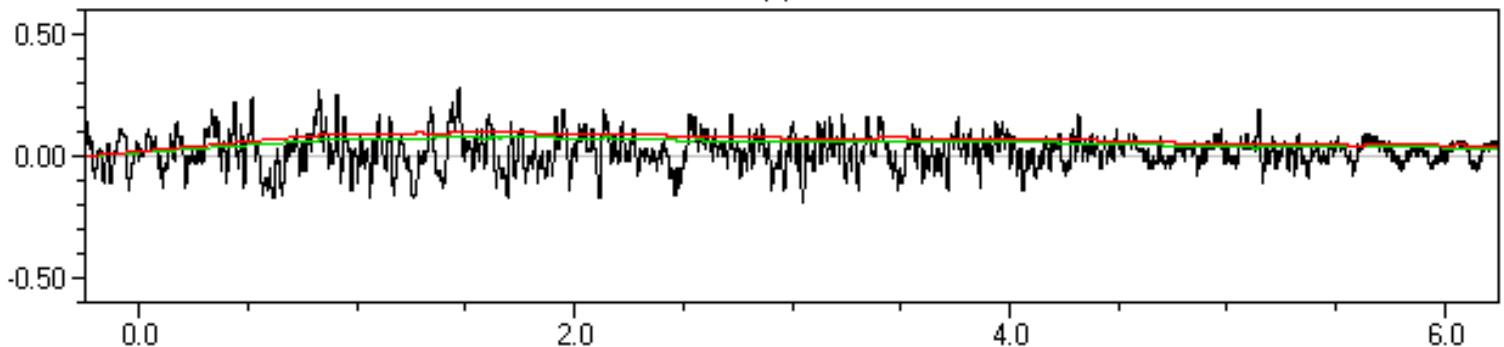
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 02:32:42

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHBT.Q10

Trigger: Long

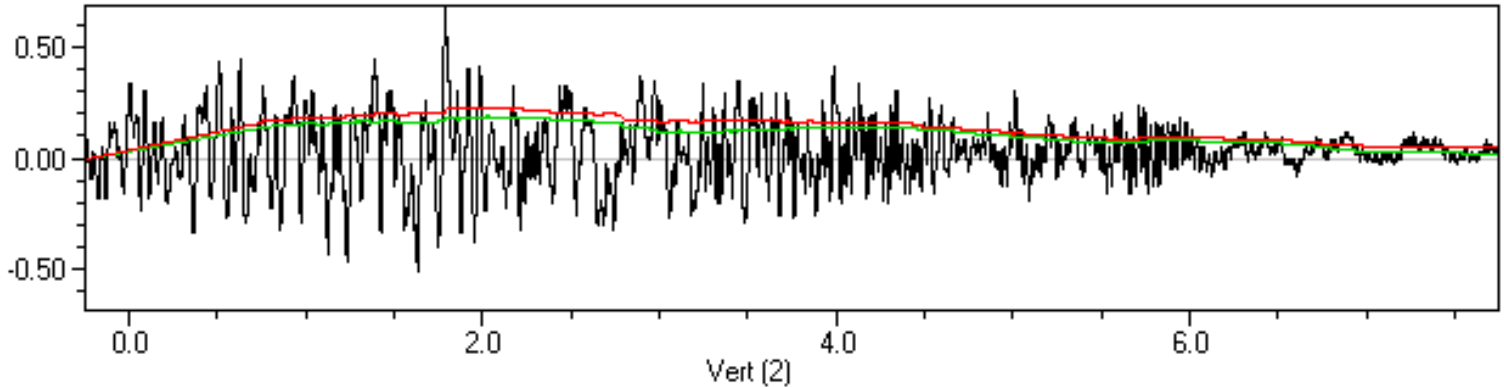
Record Time: 7.75 sec

Sample Rate: 1024 sps

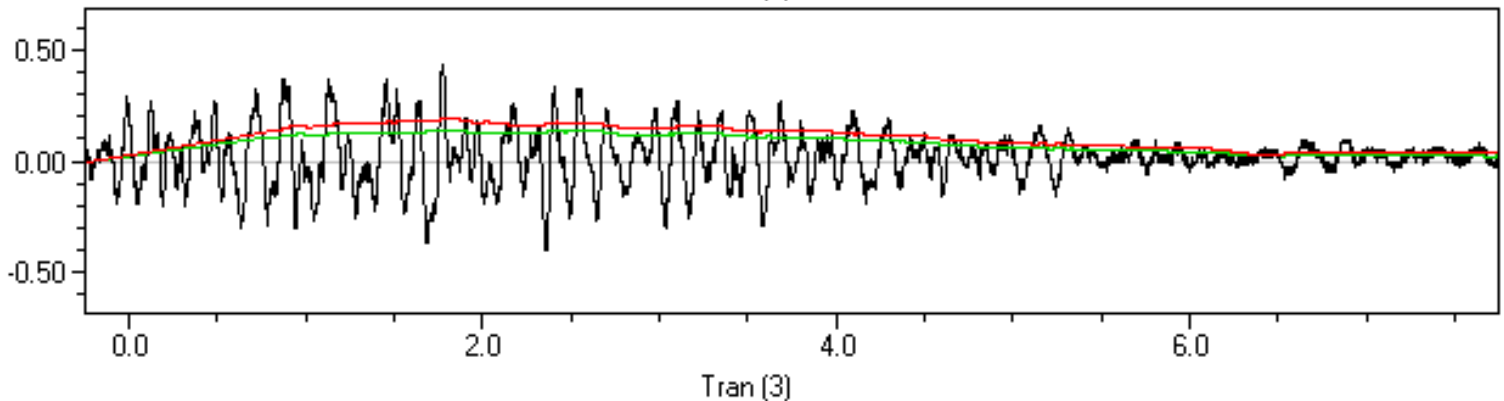
Calibration: September 13, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.397	0.429	0.683	mm/s	
ZC Freq	17	9.3	8.5	Hz	
Time of Peak	0.357	1.772	1.787	Sec	
Peak Acceleration	0.00829	0.00497	0.00829	g	
Peak Displacement	0.00484	0.0115	0.0120	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,14	0,19		0,24
RMS (1s)	0,13	0,19	0,23		0,31

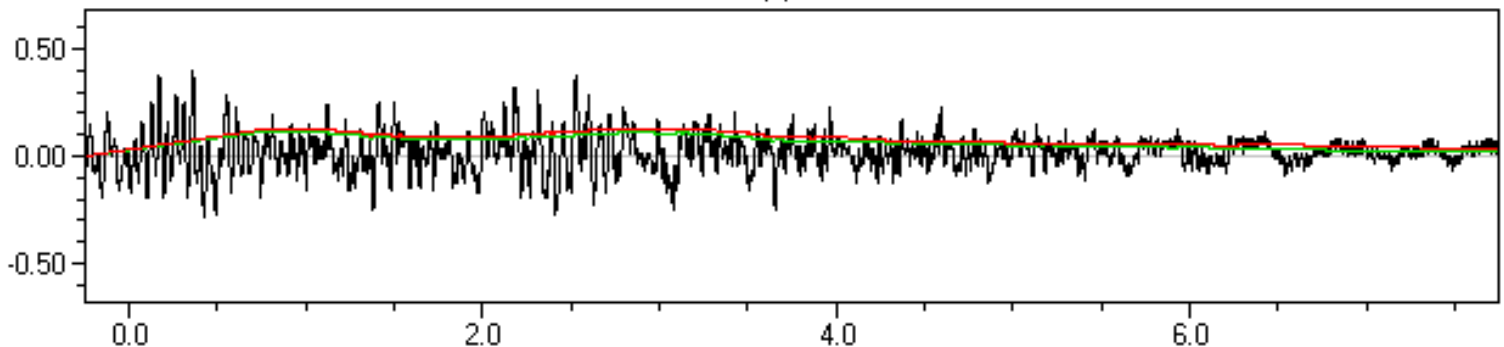
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 04:57:38

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHC0.G20

Trigger: Long

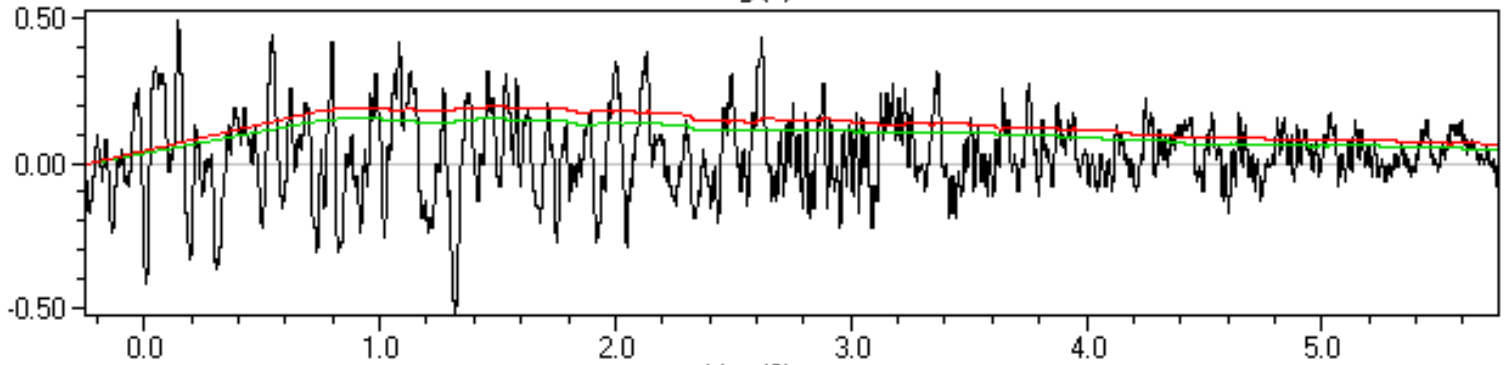
Record Time: 5.75 sec

Sample Rate: 1024 sps

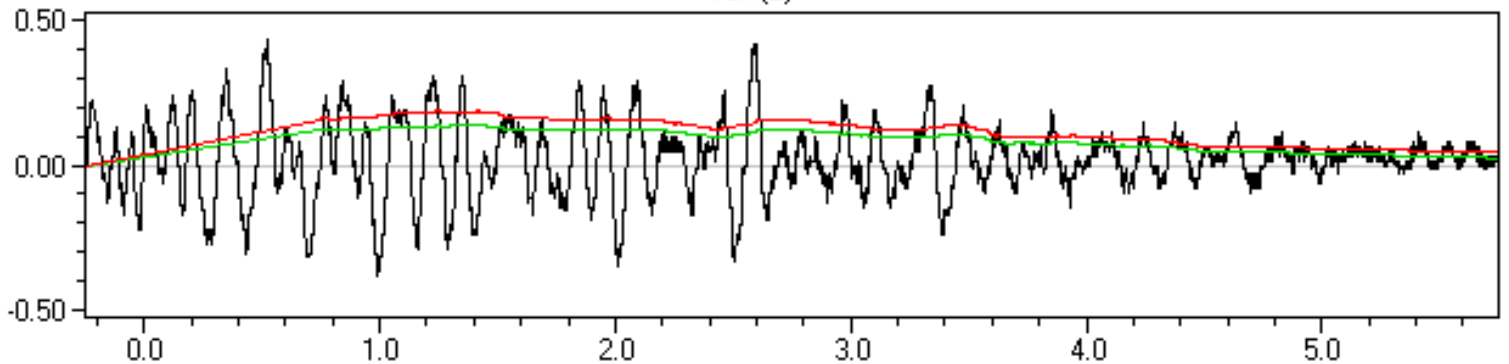
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.333	0.429	0.524	mm/s	
ZC Freq	12	6.6	8.3	Hz	
Time of Peak	0.009	0.520	1.322	Sec	
Peak Acceleration	0.00663	0.00497	0.00994	g	
Peak Displacement	0.00492	0.00943	0.0138	mm	rms of magnitude
RMS (1s fw 5.6)	0,08	0,14	0,16		0,22
RMS (1s)	0,11	0,19	0,20		0,28

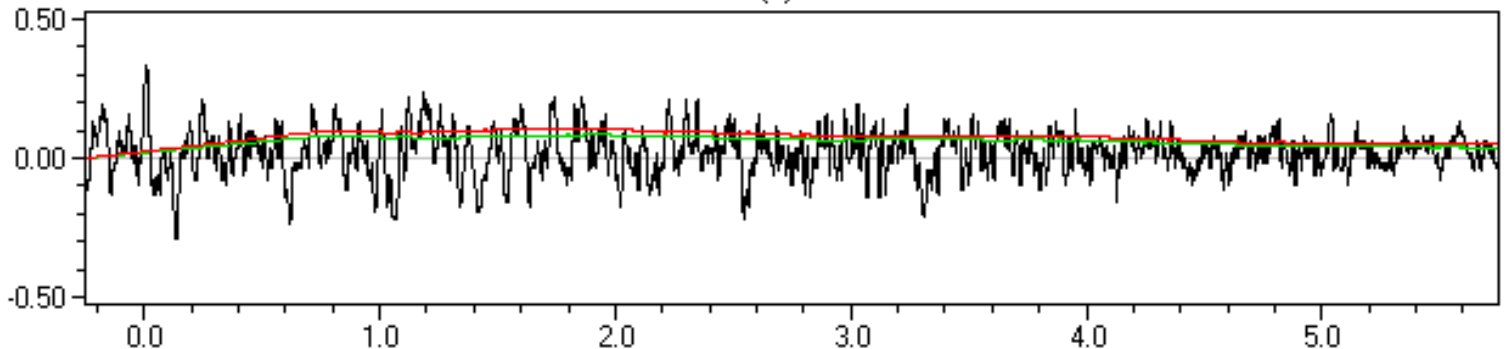
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 14:45:03

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHCR.N30

Trigger: Vert

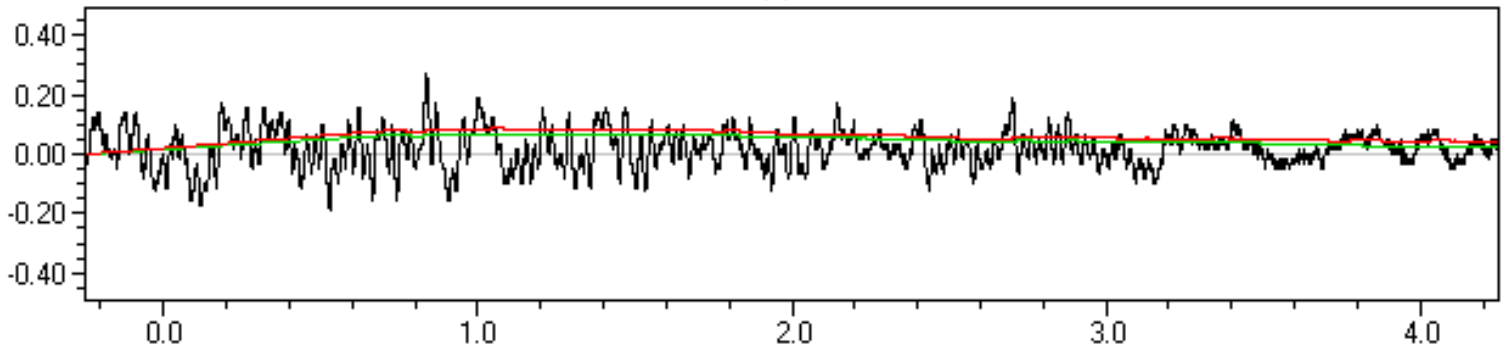
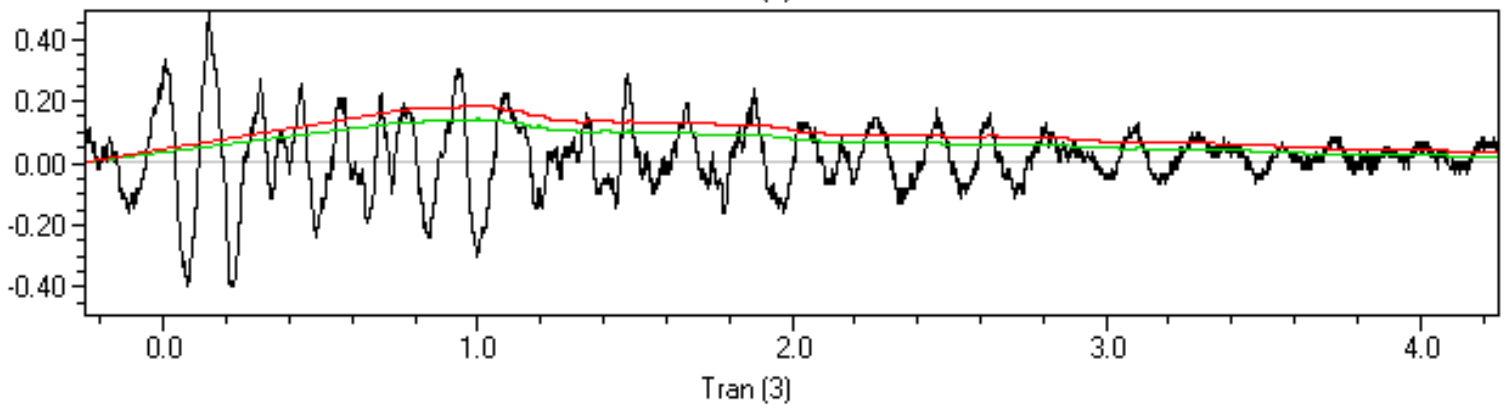
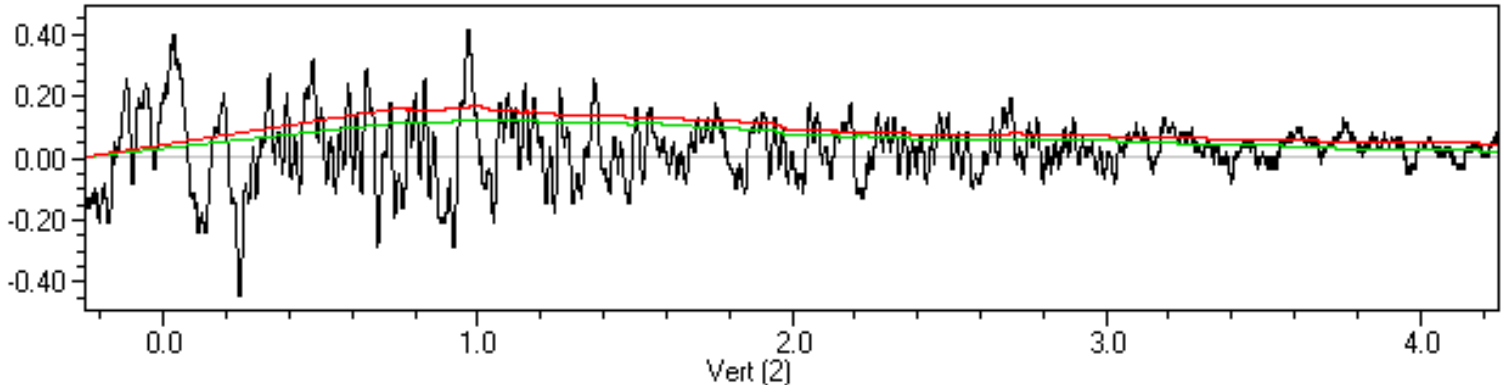
Record Time: 4.25 sec

Sample Rate: 1024 sps

Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.270	0.492	0.444	mm/s	
ZC Freq	17	6.6	6.8	Hz	
Time of Peak	0.836	0.142	0.240	Sec	
Peak Acceleration	0.00663	0.00497	0.00497	g	
Peak Displacement	0.00448	0.0104	0.0113	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,14	0,13		0,20
RMS (1s)	0,10	0,18	0,17		0,26

Long (1)





Event Date: January 1, 2007

Event Time: 22:46:25

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHDD.XD0

Trigger: Long

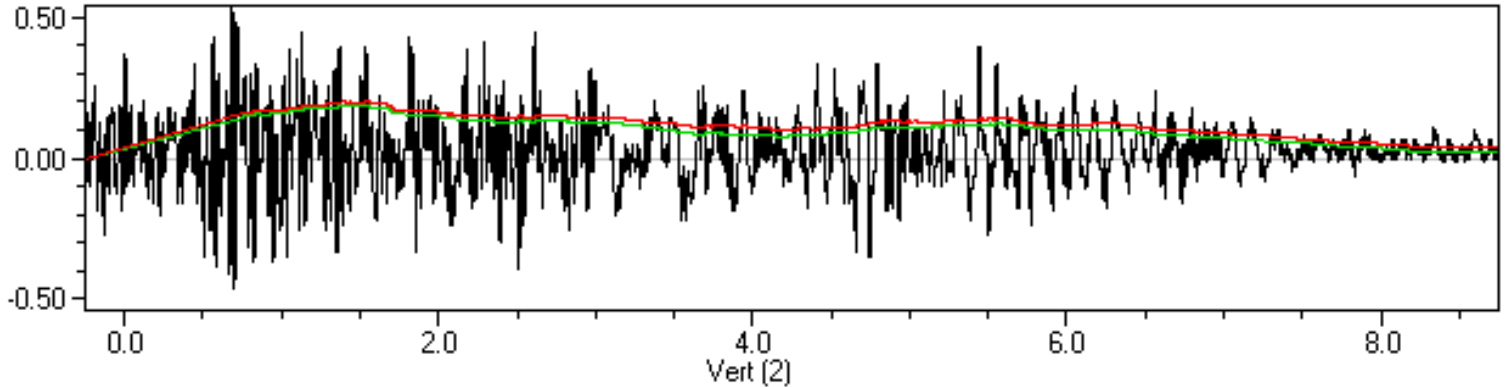
Record Time: 8.75 sec

Sample Rate: 1024 sps

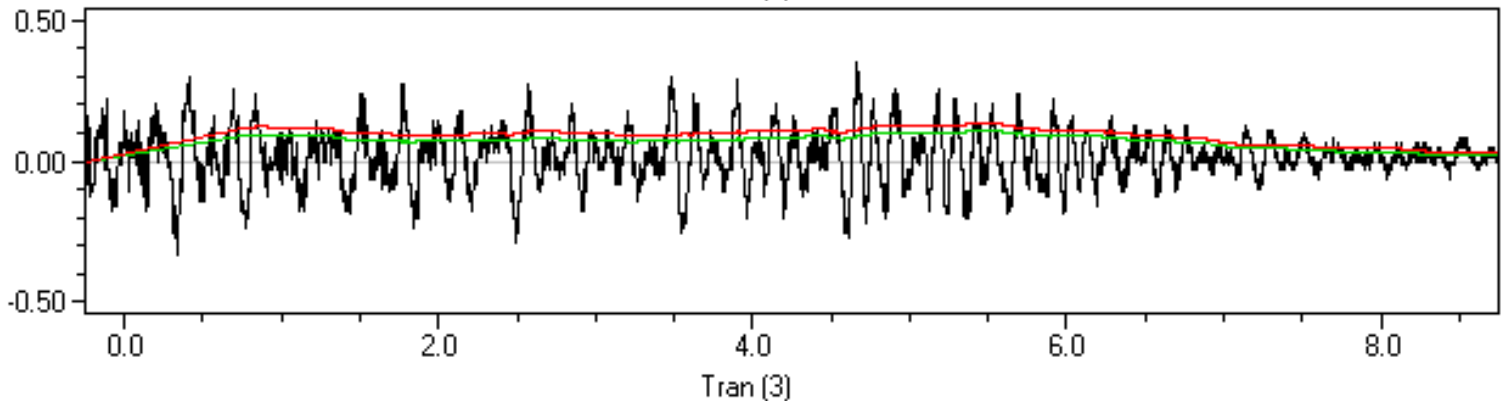
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.286	0.349	0.540	mm/s	
ZC Freq	18	8.0	30	Hz	
Time of Peak	1.269	4.665	0.684	Sec	
Peak Acceleration	0.00829	0.00663	0.0116	g	
Peak Displacement	0.00403	0.00749	0.00719	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,11	0,19		0,22
RMS (1s)	0,11	0,13	0,20		0,25

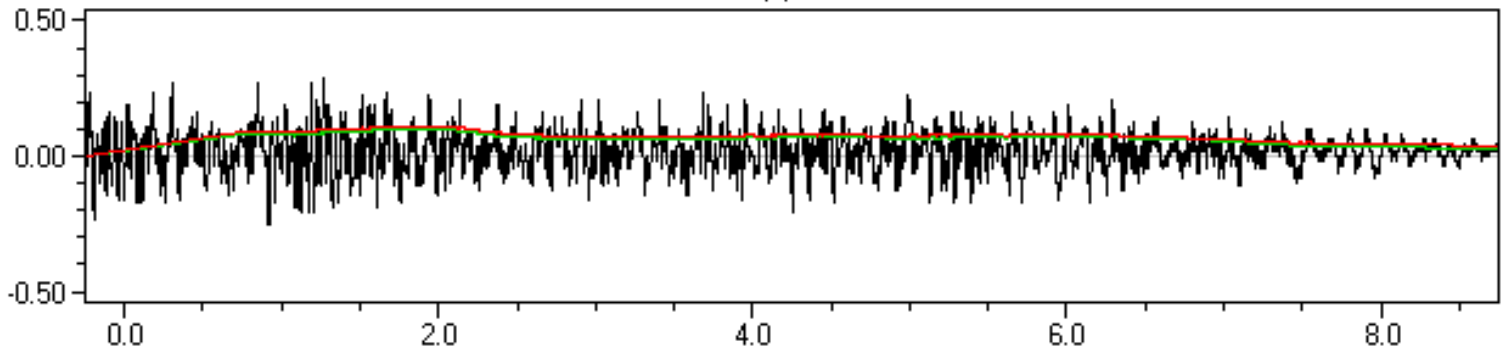
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 09:46:35

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHE8.HN0

Trigger: Long

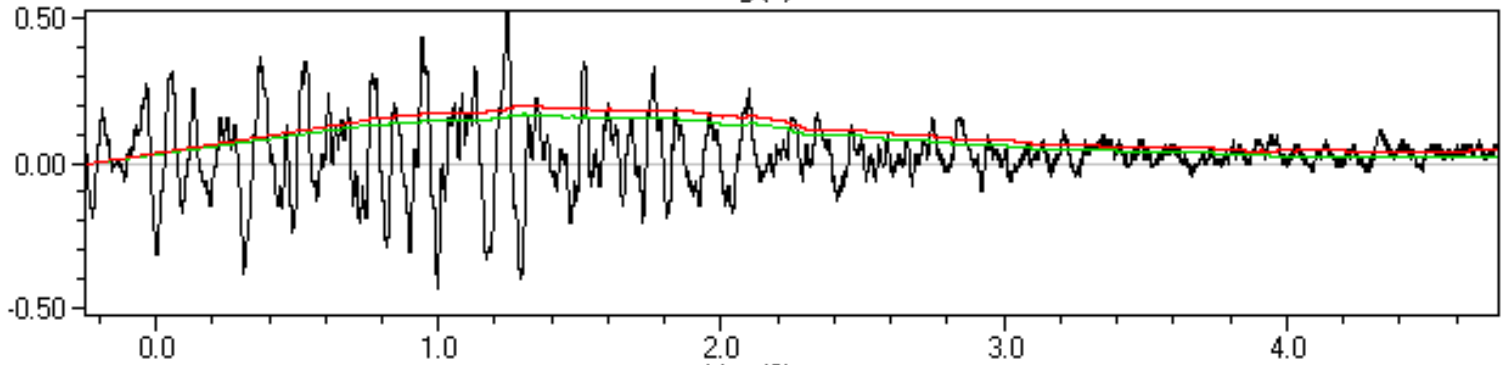
Record Time: 4.75 sec

Sample Rate: 1024 sps

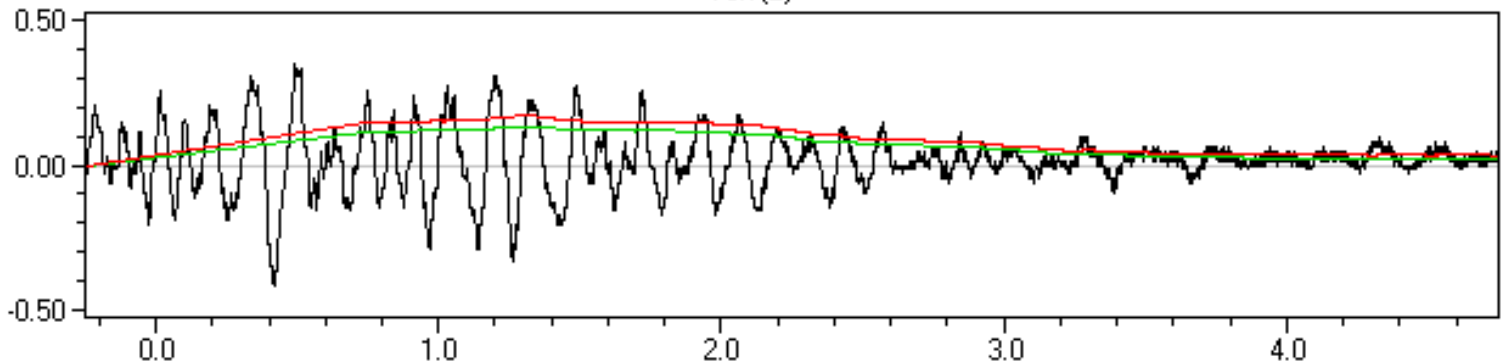
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.270	0.413	0.524	mm/s	
ZC Freq	8.5	6.8	8.5	Hz	
Time of Peak	0.545	0.416	1.242	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00327	0.00841	0.00760	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,13	0,17		0,23
RMS (1s)	0,09	0,17	0,20		0,27

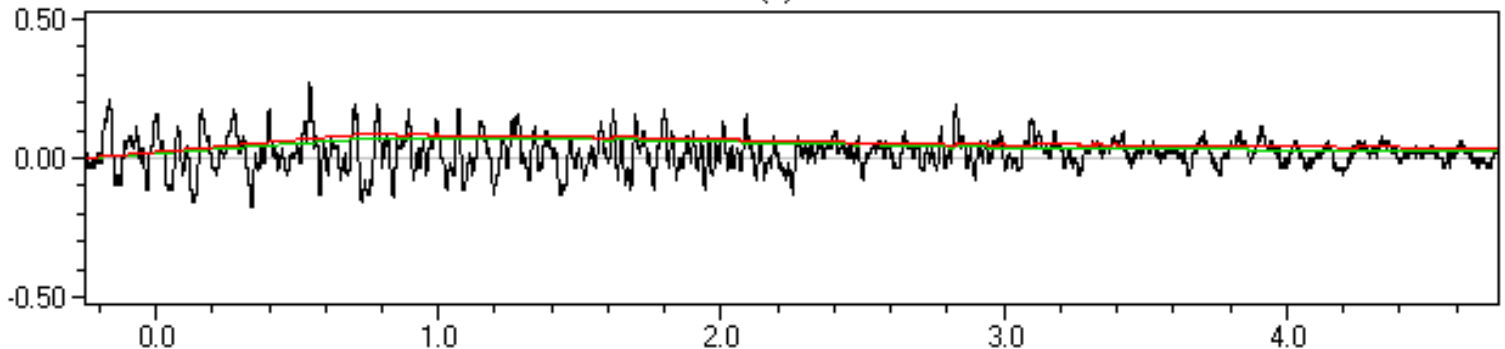
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 15:50:47

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHEP.CN0

Trigger: Long

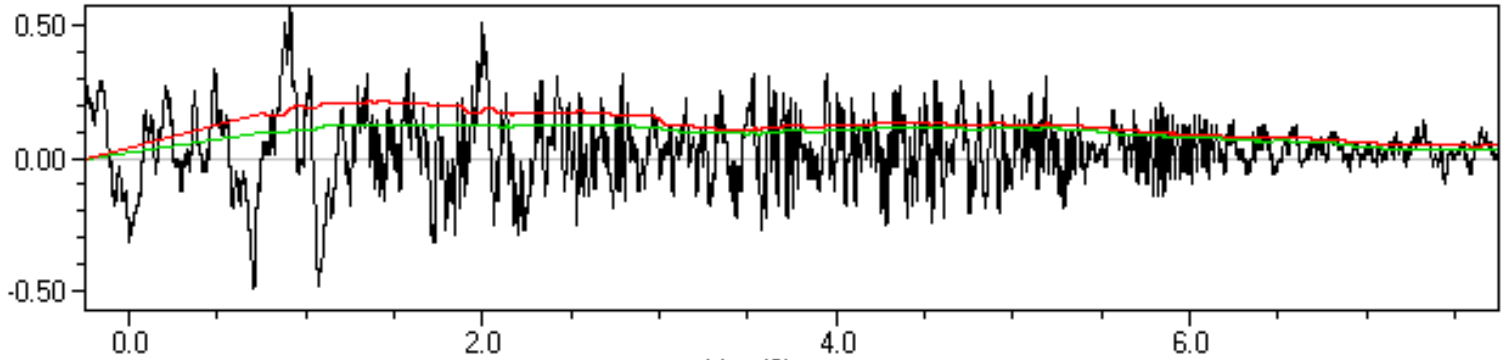
Record Time: 7.75 sec

Sample Rate: 1024 sps

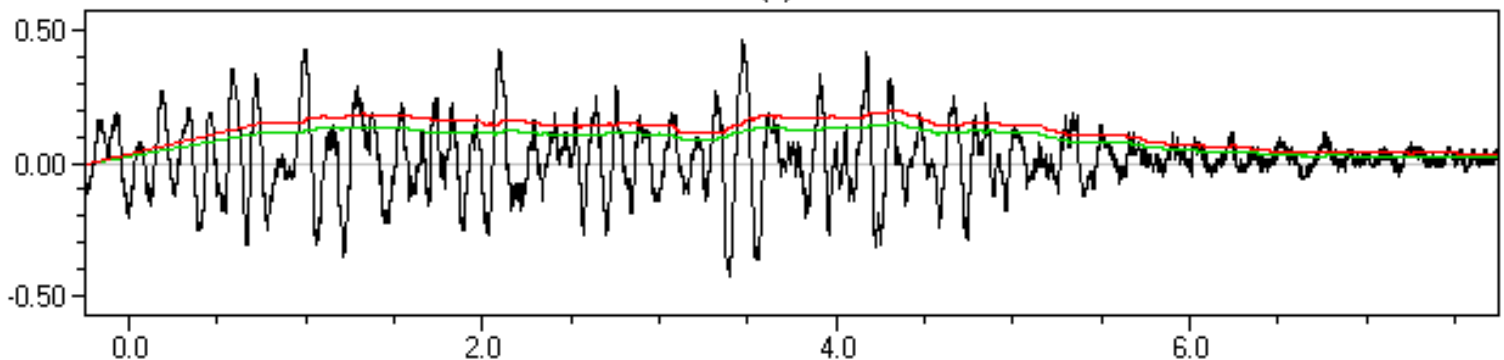
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.381	0.460	0.571	mm/s	
ZC Freq	4.9	5.9	3.8	Hz	
Time of Peak	2.363	3.472	0.910	Sec	
Peak Acceleration	0.00829	0.00663	0.00663	g	
Peak Displacement	0.00908	0.0120	0.0205	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,15	0,13		0,21
RMS (1s)	0,12	0,20	0,21		0,30

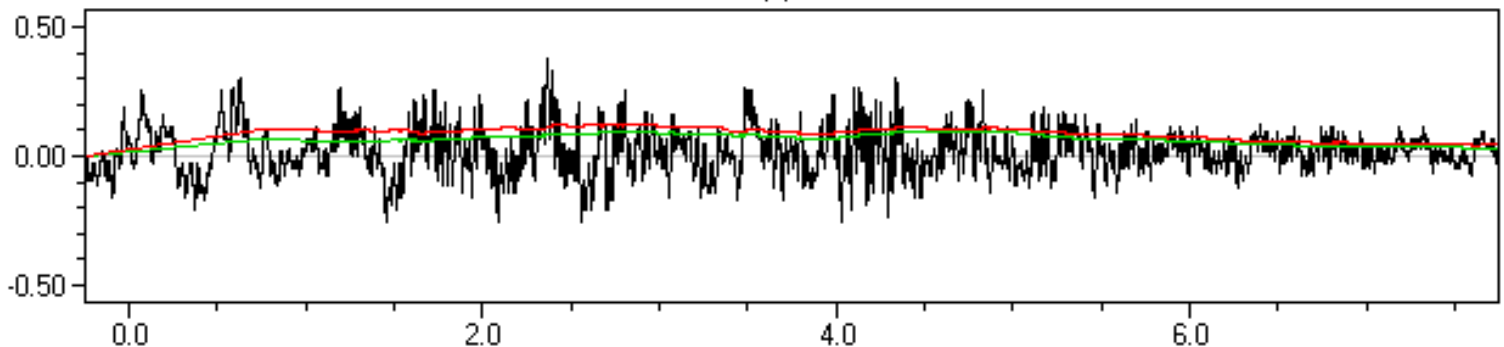
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 08:33:08

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHFZ.R80

Trigger: Vert

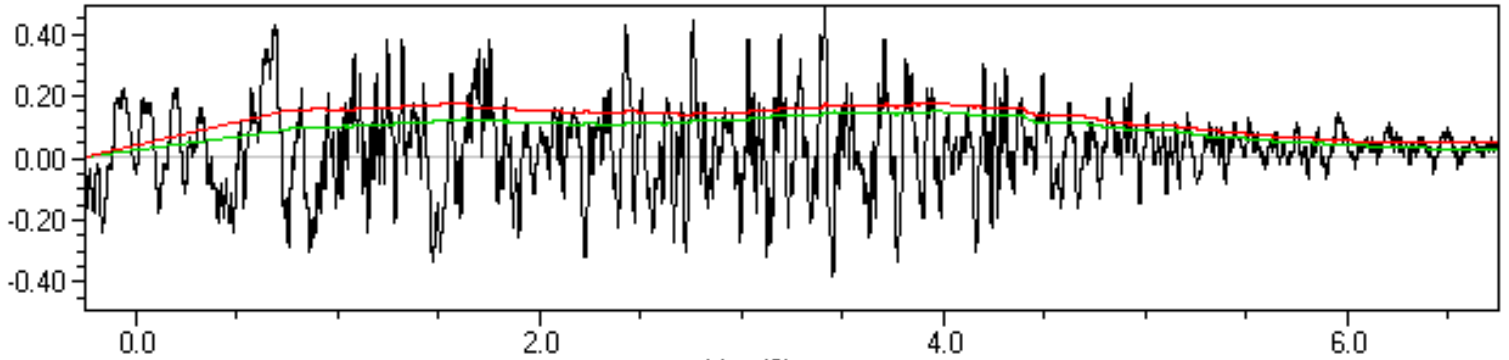
Record Time: 6.75 sec

Sample Rate: 1024 sps

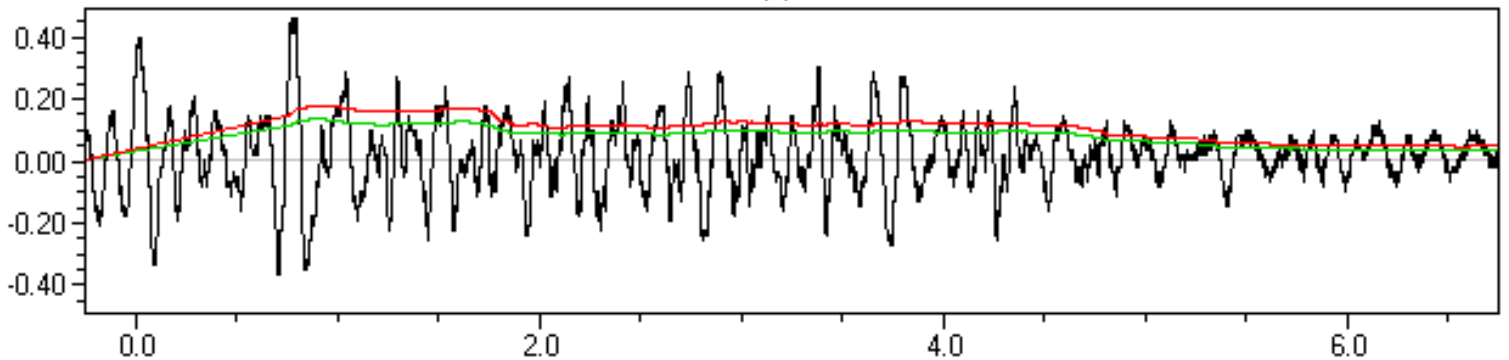
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.349	0.460	0.492	mm/s	
ZC Freq	20	6.1	11	Hz	
Time of Peak	1.417	0.770	3.411	Sec	
Peak Acceleration	0.00829	0.00663	0.00663	g	
Peak Displacement	0.00696	0.0125	0.0191	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,13	0,15		0,21
RMS (1s)	0,12	0,18	0,18		0,27

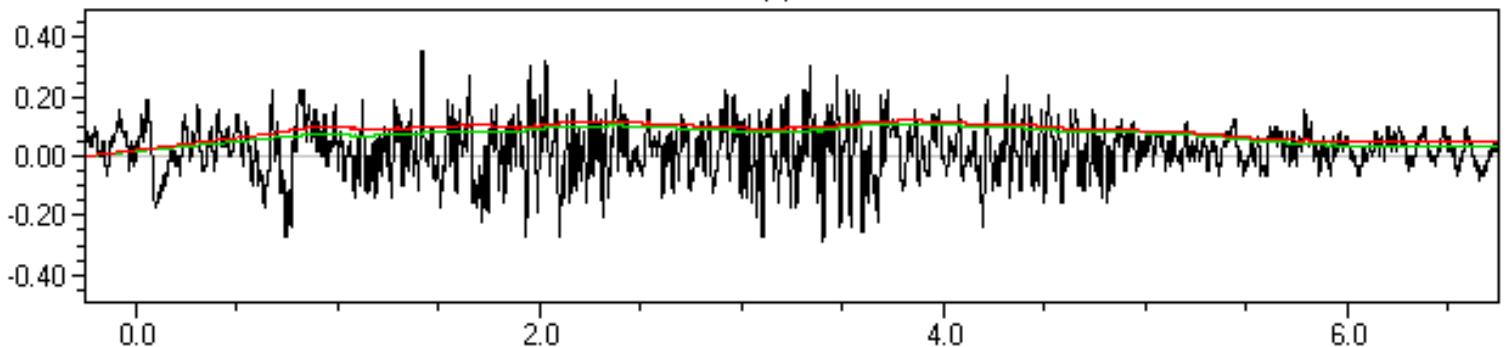
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 16:01:55

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11630, V 8.01-8.0 MiniMate Plus

File Name: M630BHGK.J70

Trigger: Long

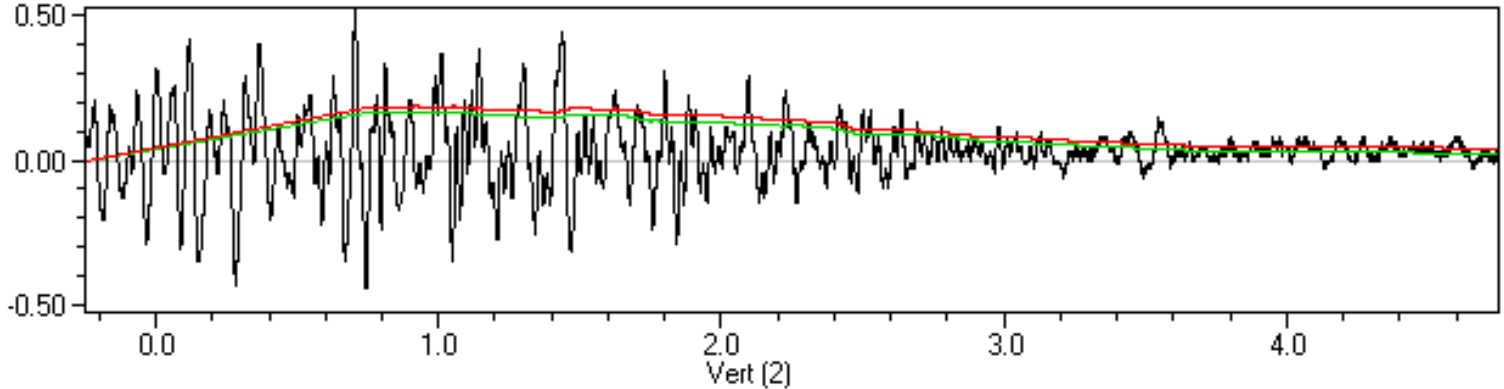
Record Time: 4.75 sec

Sample Rate: 1024 sps

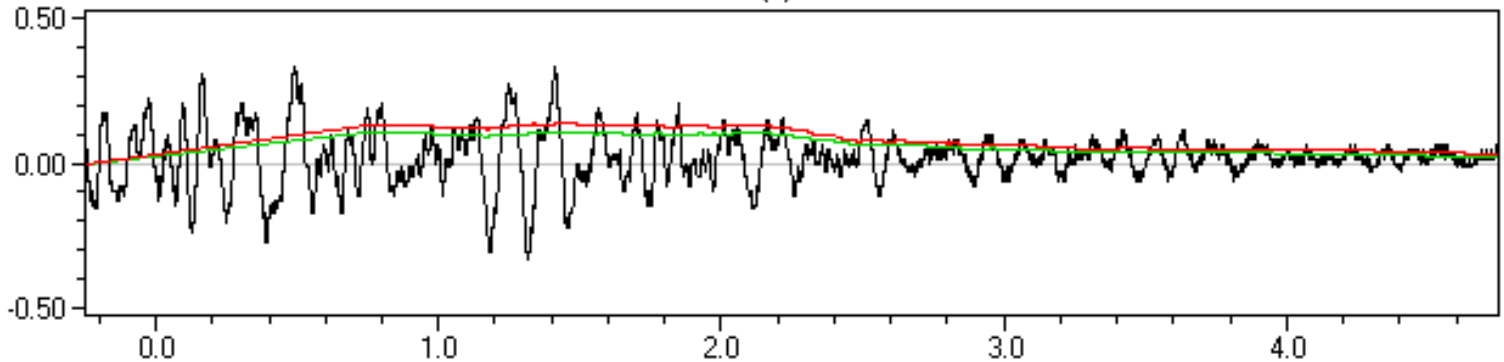
Calibration: September 13, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.302	0.333	0.524	mm/s	
ZC Freq	21	6.7	17	Hz	
Time of Peak	1.916	0.490	0.703	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00369	0.00750	0.00668	mm	rms of magnitude
RMS (1s fw 5.6)	0,08	0,11	0,17		0,21
RMS (1s)	0,11	0,14	0,19		0,24

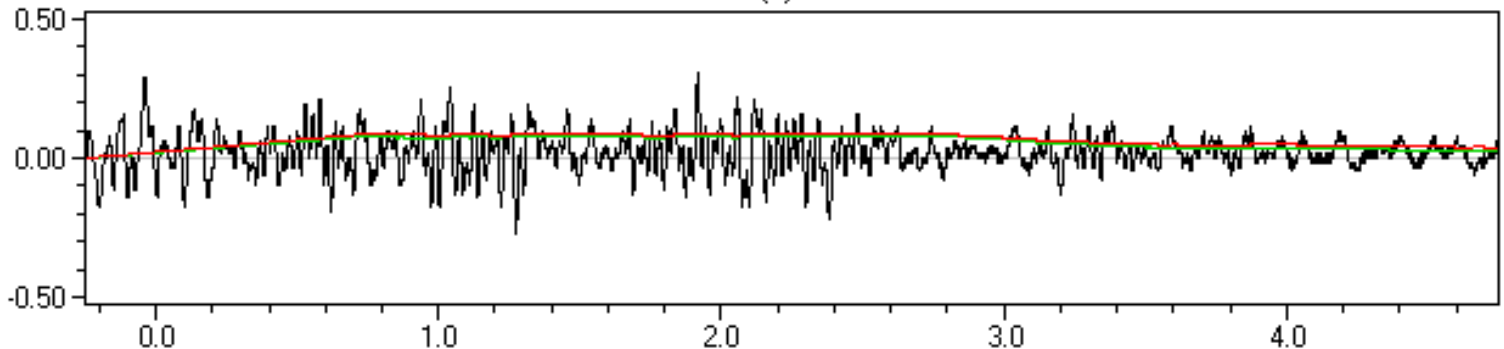
Long (1)



Vert (2)



Tran (3)





Event Date: December 29, 2006

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

Event Time: 17:03:00

File Name: L212BH7E.100

Location: Kirkkonummi Liikennetarina

Trigger: Vert

Client: SITO

Record Time: 5.75 sec

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Sample Rate: 1024 sps

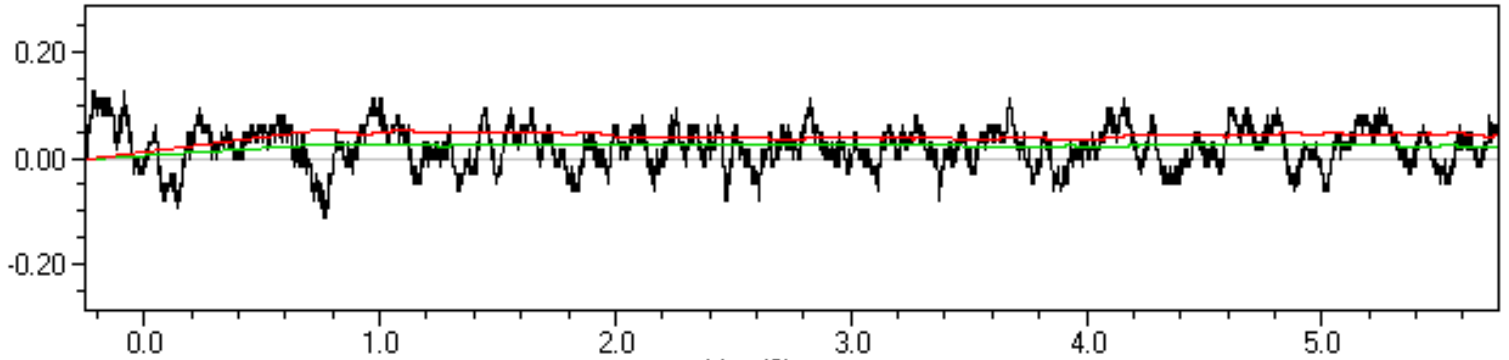
Job Number: 5296

Calibration: May 17, 2005 by InstanTel Inc.

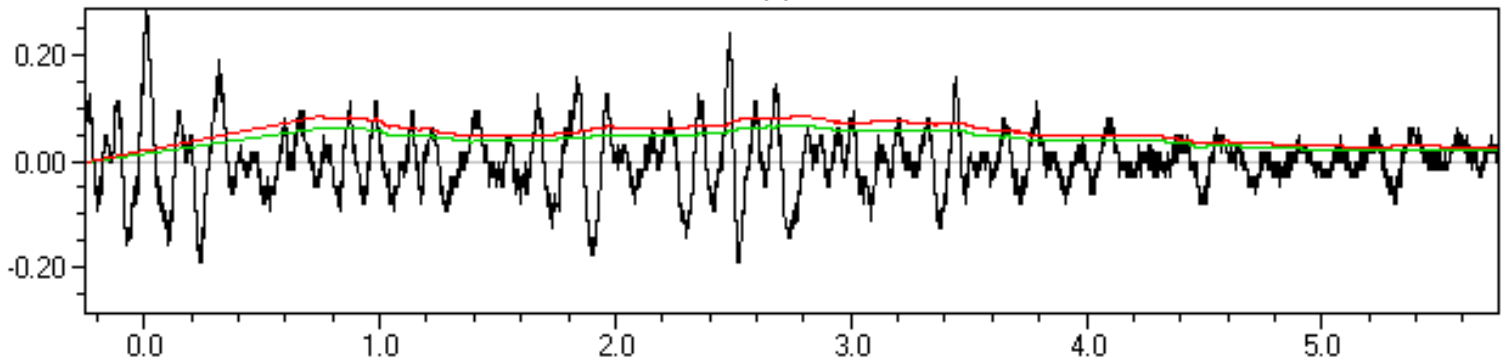
Extended Notes:

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.127	0.286	0.127	mm/s	
ZC Freq	6.8	7.8	3.9	Hz	
Time of Peak	0.173	0.008	-0.218	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00322	0.00524	0.00696	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,07	0,03		0,08
RMS (1s)	0,05	0,08	0,06		0,10

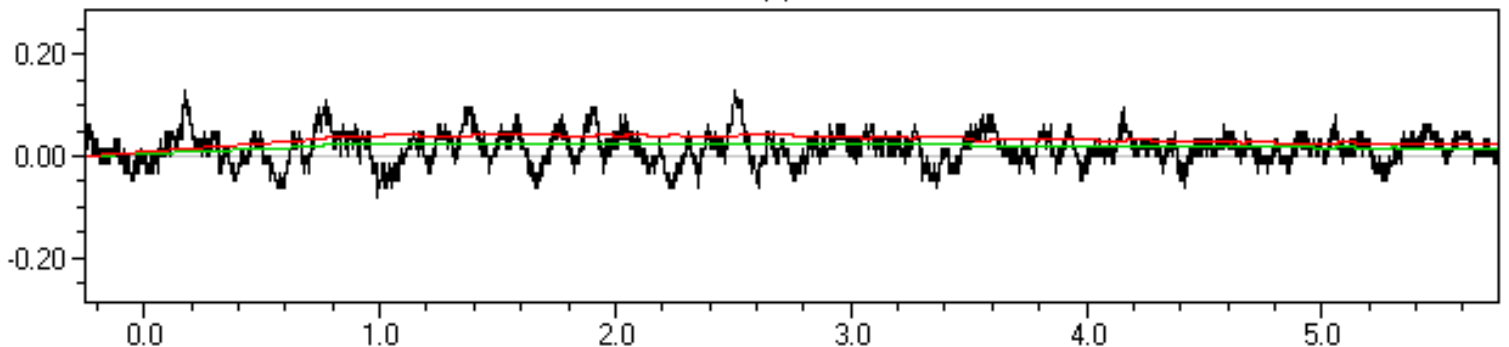
Long (1)



Vert (2)



Tran (3)





Event Date: December 29, 2006

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

Event Time: 17:55:14

File Name: L212BH7G.G20

Location: Kirkkonummi Liikennetarina

Trigger: Vert

Client: SITO

Record Time: 3.25 sec

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Sample Rate: 1024 sps

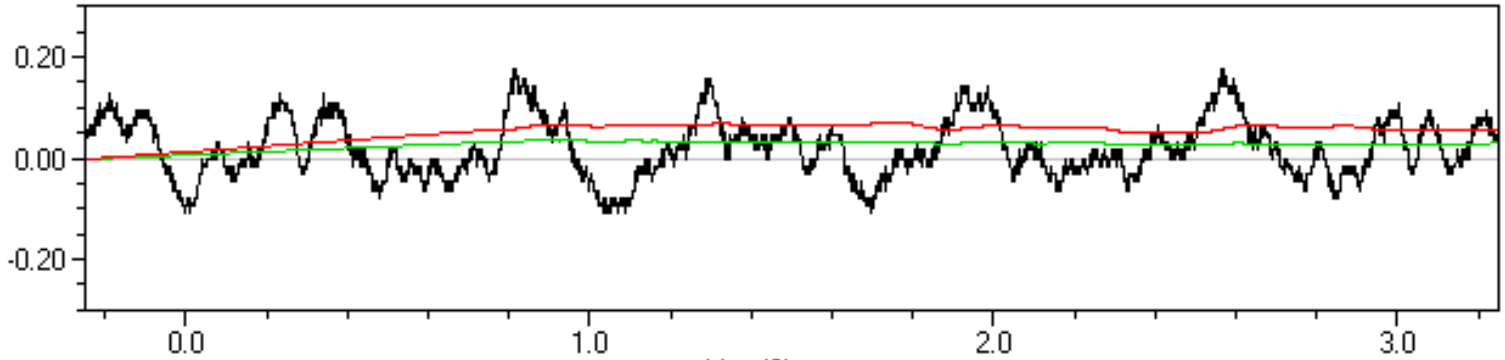
Job Number: 5296

Calibration: May 17, 2005 by Instatel Inc.

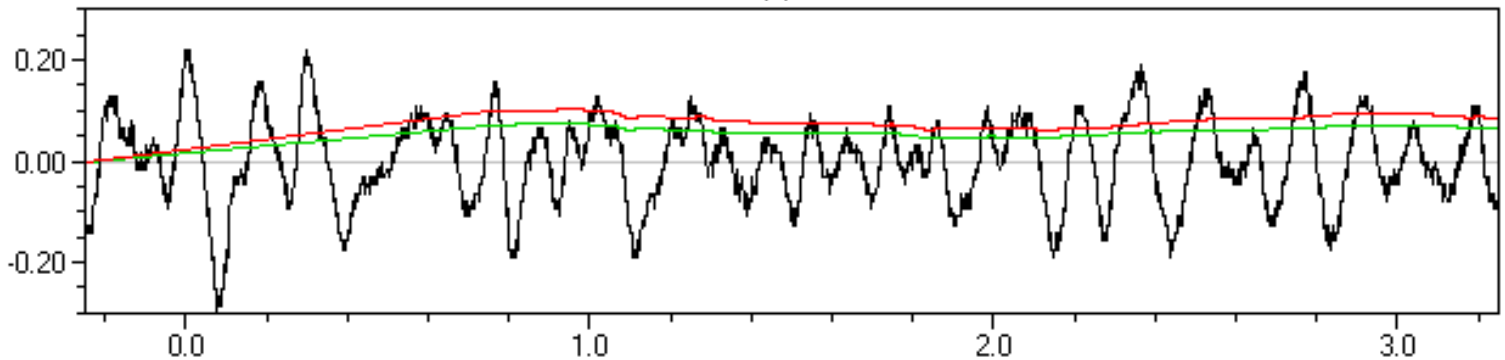
Extended Notes:

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.159	0.302	0.175	mm/s	
ZC Freq	2.7	5.7	2.9	Hz	
Time of Peak	1.129	0.076	0.811	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00853	0.00666	0.00845	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,07	0,03		0,09
RMS (1s)	0,07	0,10	0,07		0,14

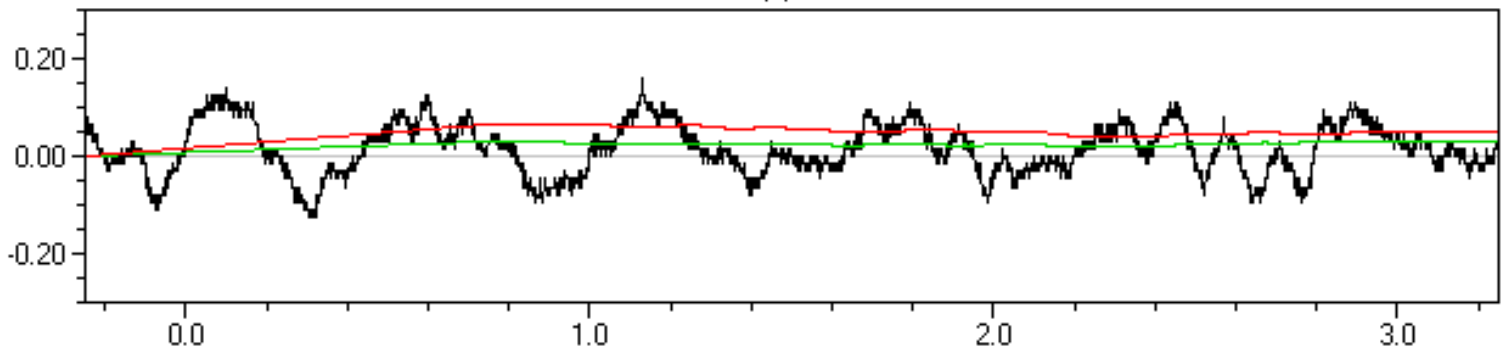
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 20:45:04

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHBD.N40

Trigger: Long

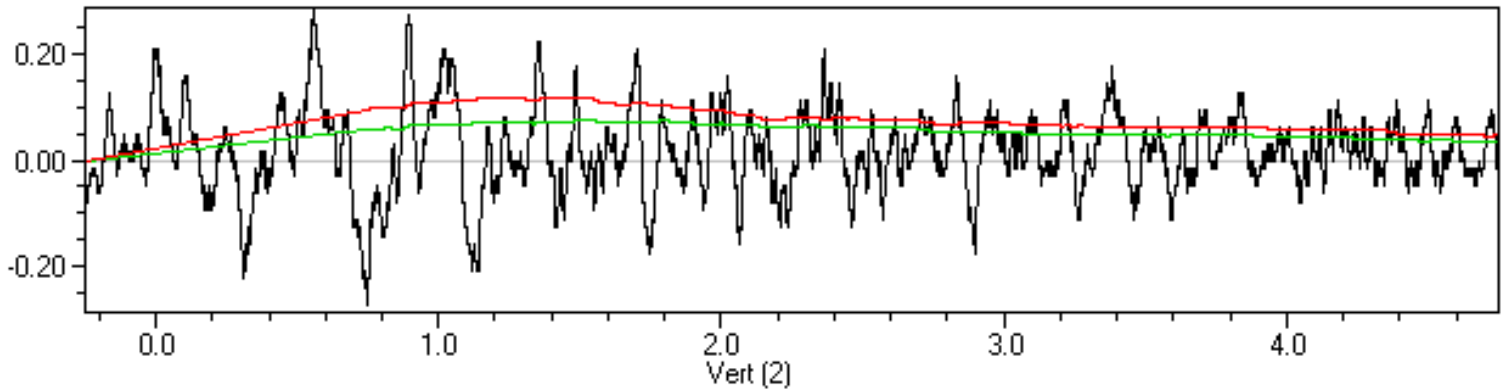
Record Time: 4.75 sec

Sample Rate: 1024 sps

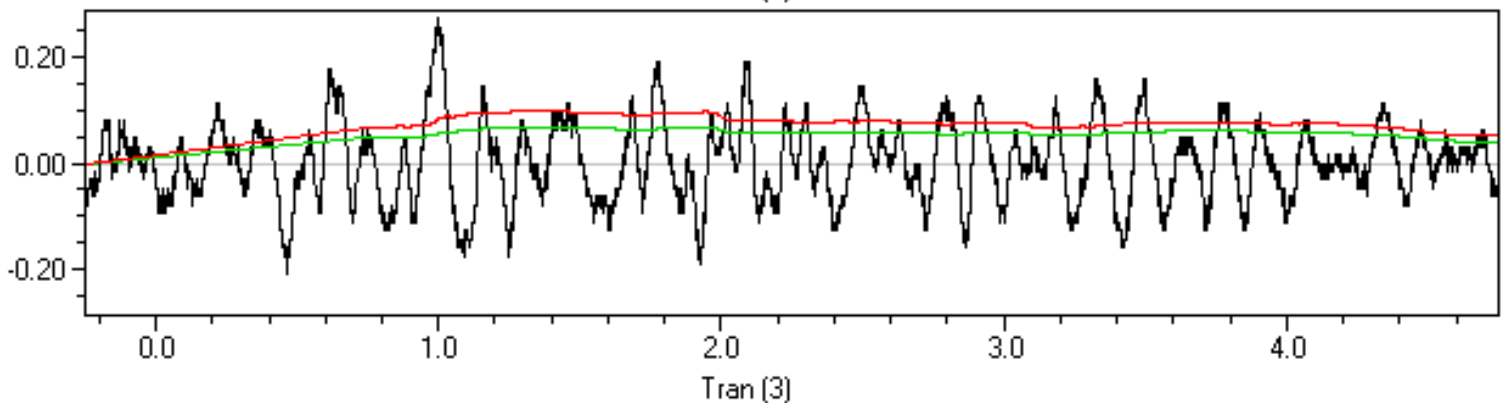
Calibration: May 17, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.190	0.270	0.286	mm/s	
ZC Freq	4.5	5.1	3.6	Hz	
Time of Peak	0.822	0.995	0.555	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00471	0.00770	0.00898	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,07	0,07		0,11
RMS (1s)	0,08	0,11	0,12		0,16

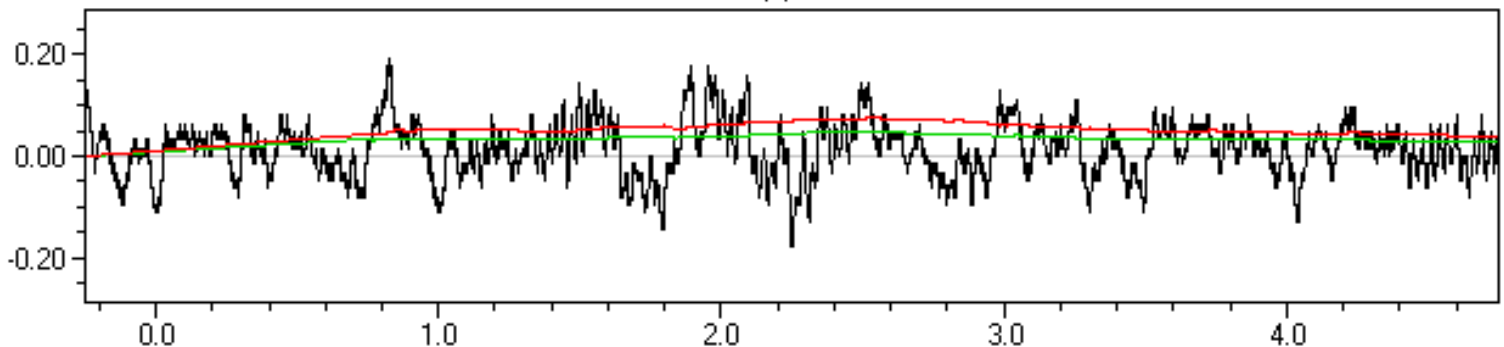
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 22:45:23

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHBJ.7N0

Trigger: Long

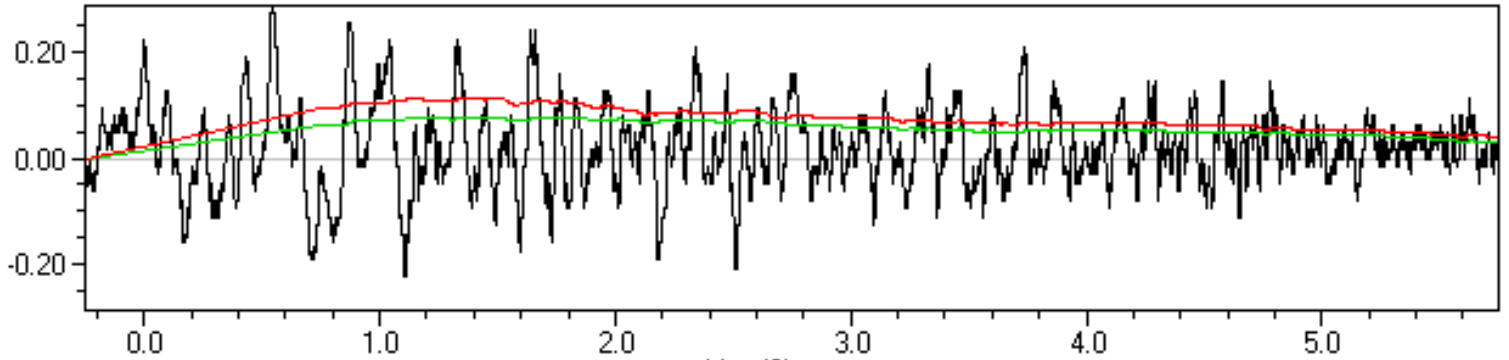
Record Time: 5.75 sec

Sample Rate: 1024 sps

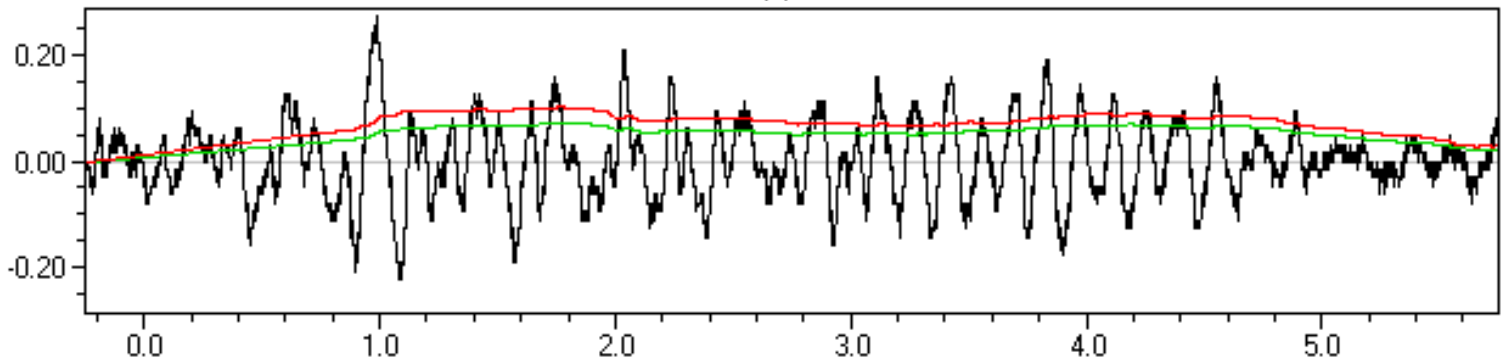
Calibration: May 17, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.175	0.270	0.286	mm/s	
ZC Freq	2.7	5.2	4.4	Hz	
Time of Peak	1.933	0.984	0.542	Sec	
Peak Acceleration	0.00497	0.00497	0.00663	g	
Peak Displacement	0.00912	0.00803	0.00750	mm	rms of magnitude
RMS (1s fw 5.6)	0,04	0,07	0,08		0,11
RMS (1s)	0,07	0,10	0,11		0,16

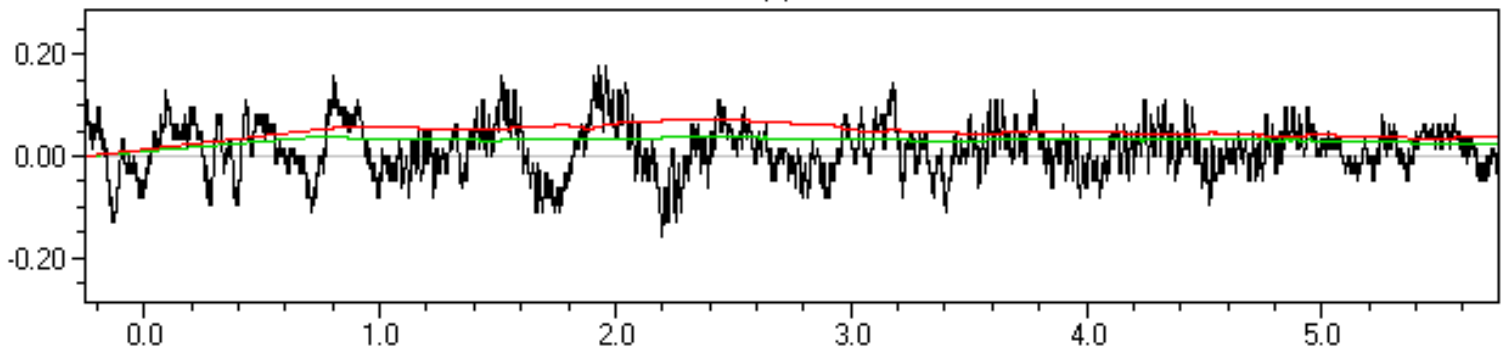
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 02:32:42

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHBT.Q10

Trigger: Long

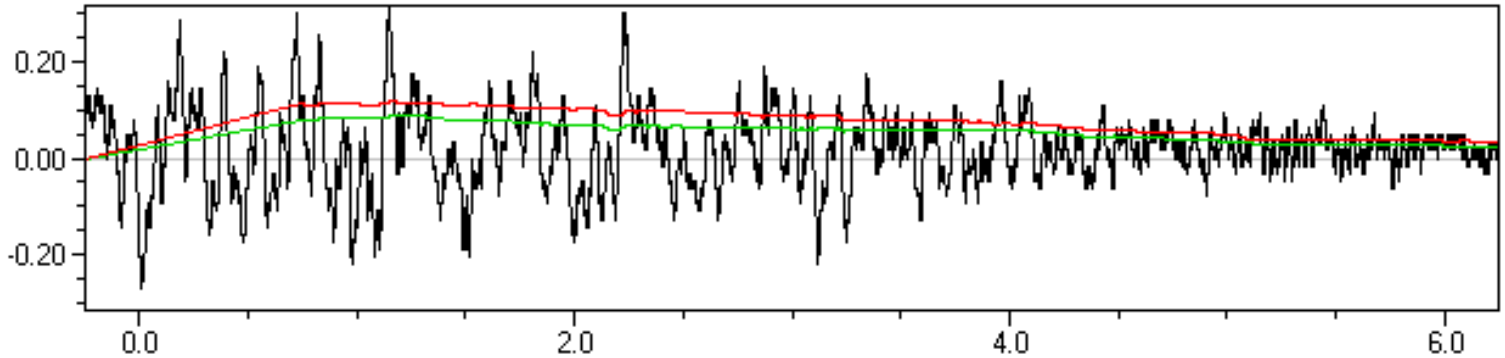
Record Time: 6.25 sec

Sample Rate: 1024 sps

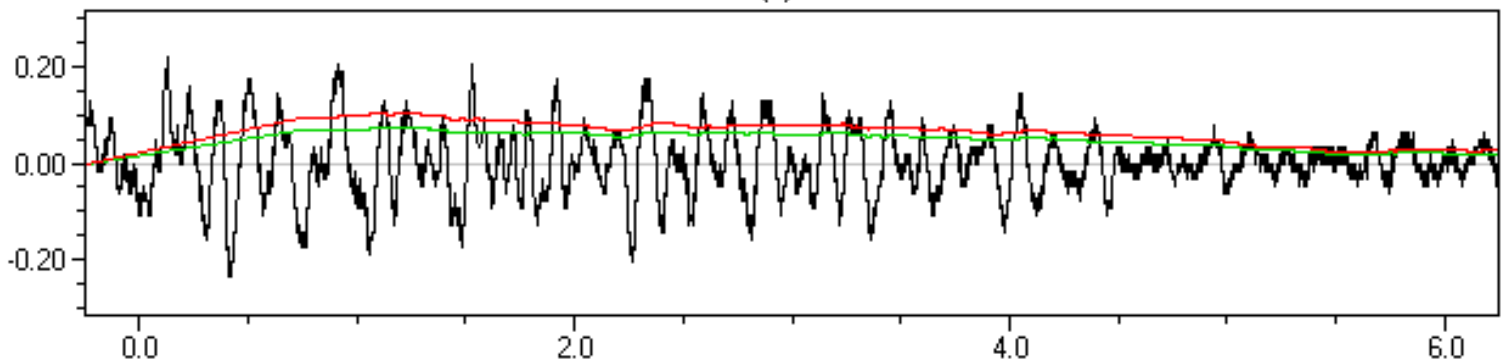
Calibration: May 17, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.206	0.238	0.317	mm/s	
ZC Freq	6.7	7.8	7.8	Hz	
Time of Peak	1.080	0.409	1.145	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00888	0.00567	0.00765	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,07	0,09		0,12
RMS (1s)	0,07	0,10	0,12		0,17

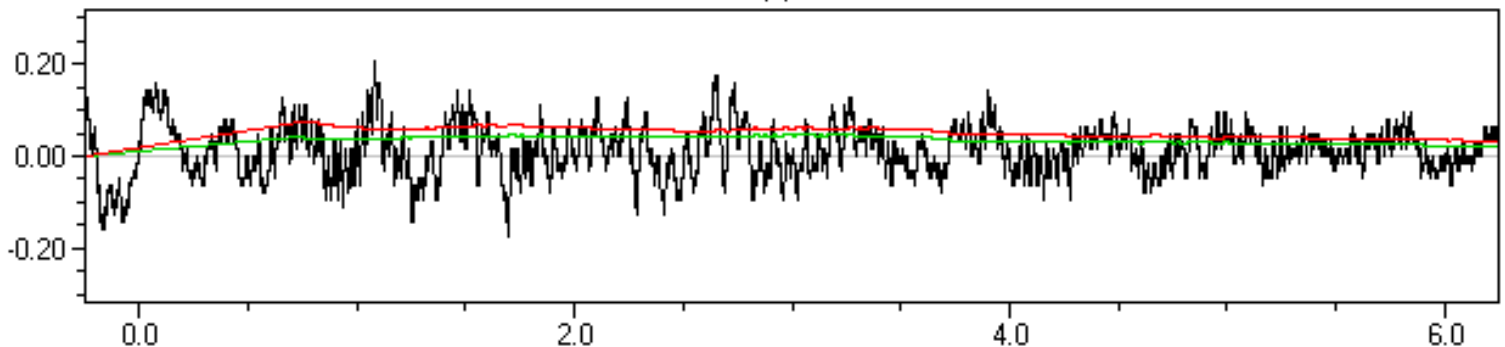
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 14:34:39

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHCR.5R0

Trigger: Long

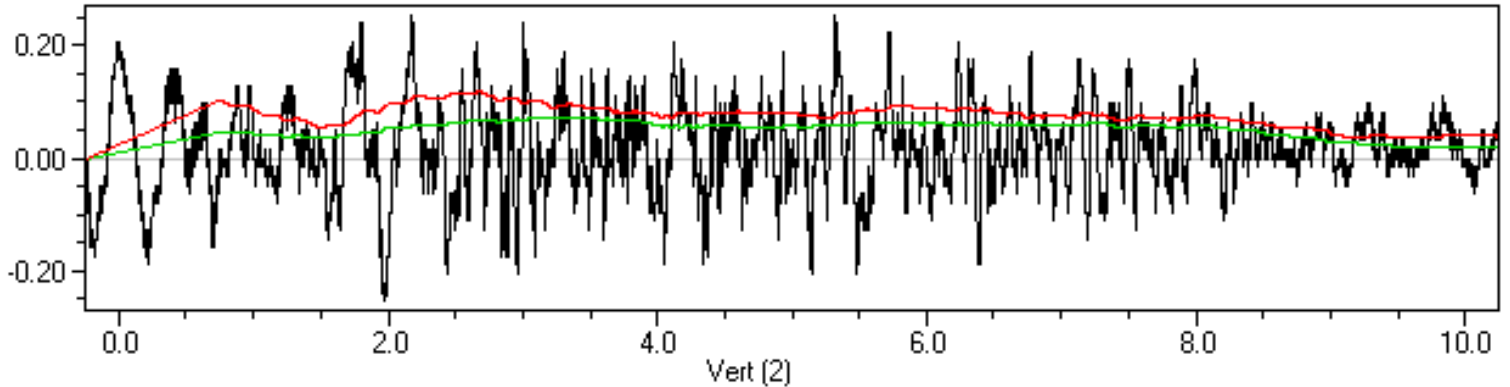
Record Time: 10.25 sec

Sample Rate: 1024 sps

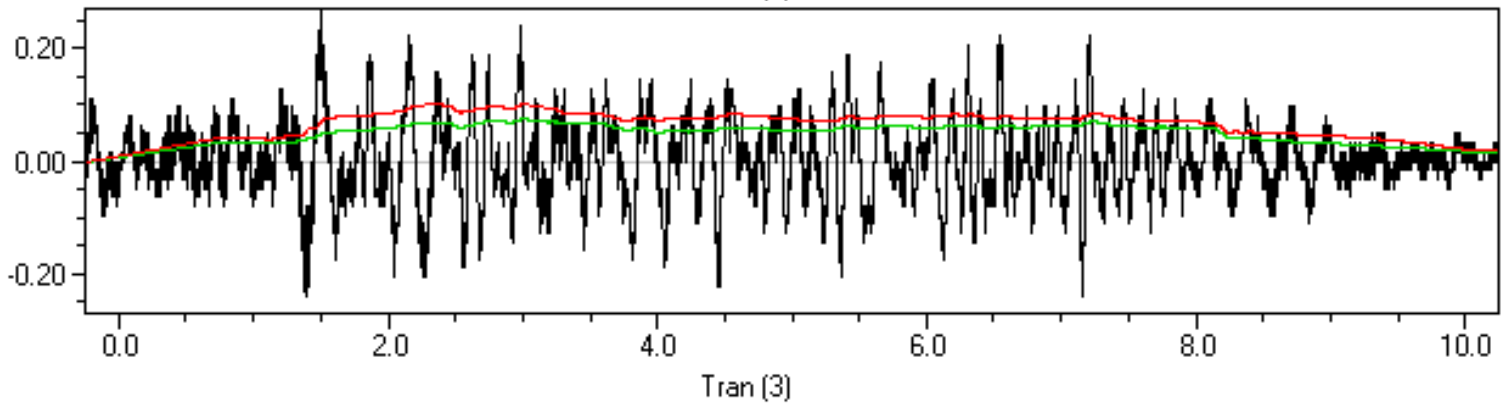
Calibration: May 17, 2005 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.222	0.270	0.254	mm/s	
ZC Freq	4.8	5.3	4.8	Hz	
Time of Peak	2.433	1.495	1.965	Sec	
Peak Acceleration	0.00663	0.00663	0.00497	g	
Peak Displacement	0.00877	0.00661	0.0128	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,07	0,07		0,11
RMS (1s)	0,08	0,10	0,12		0,17

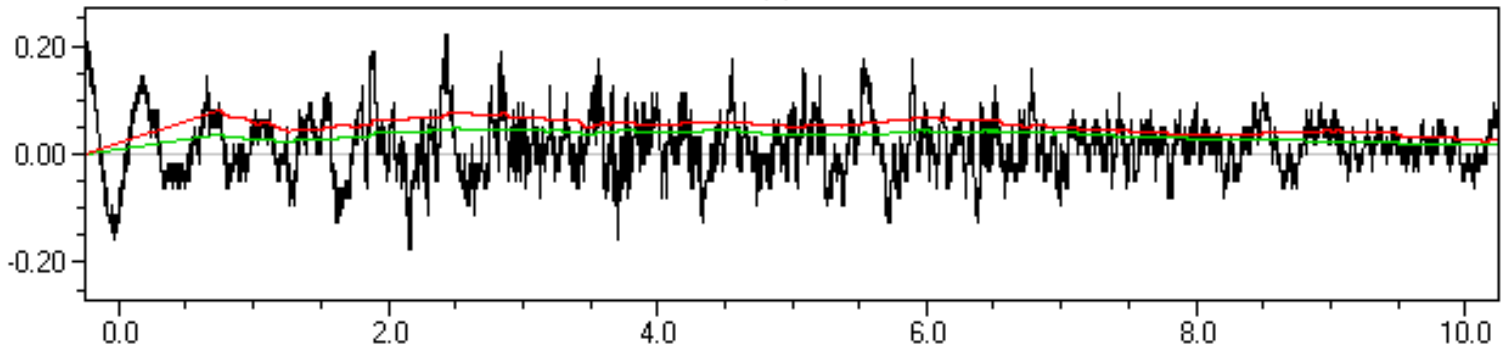
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 14:45:04

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHCR.N40

Trigger: Vert

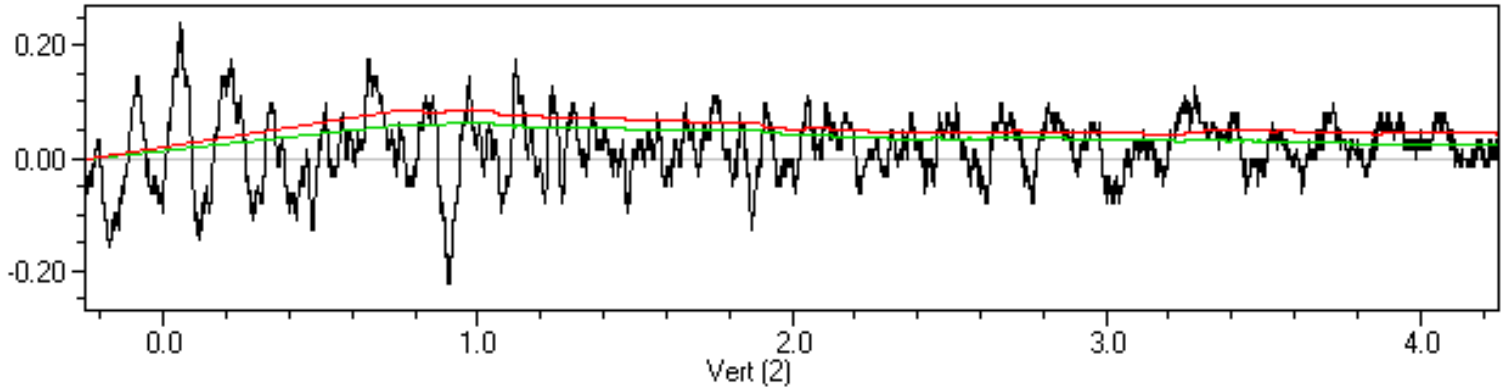
Record Time: 4.25 sec

Sample Rate: 1024 sps

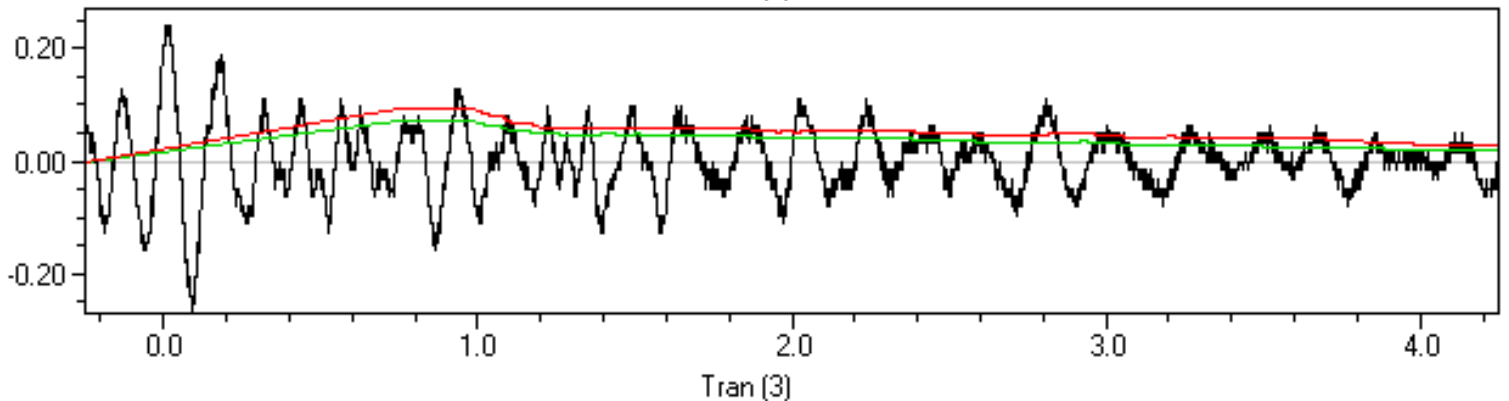
Calibration: May 17, 2005 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.143	0.270	0.238	mm/s	
ZC Freq	6.6	7.0	6.5	Hz	
Time of Peak	1.049	0.091	0.055	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00550	0.00568	0.00524	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,07	0,06		0,10
RMS (1s)	0,07	0,09	0,09		0,14

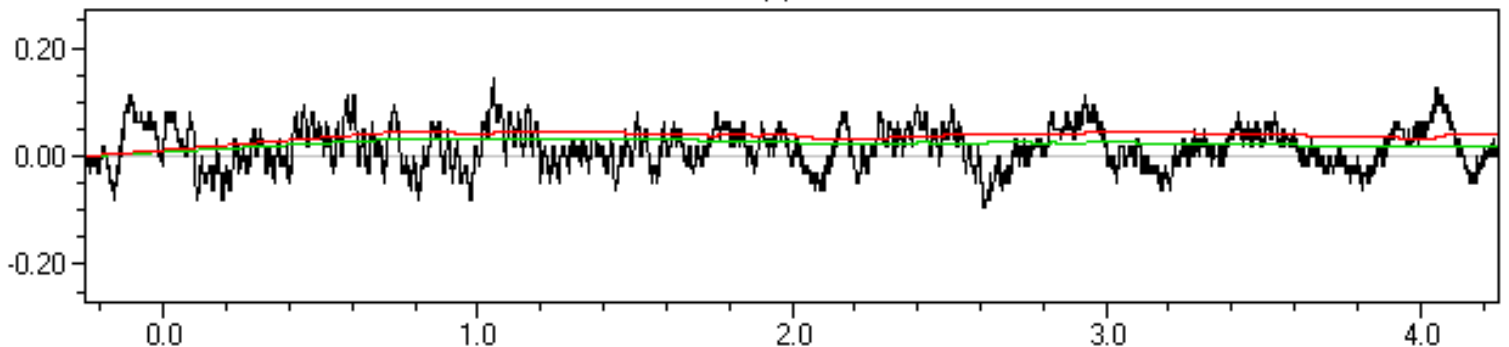
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 05:56:15

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHDx.TR0

Trigger: Vert

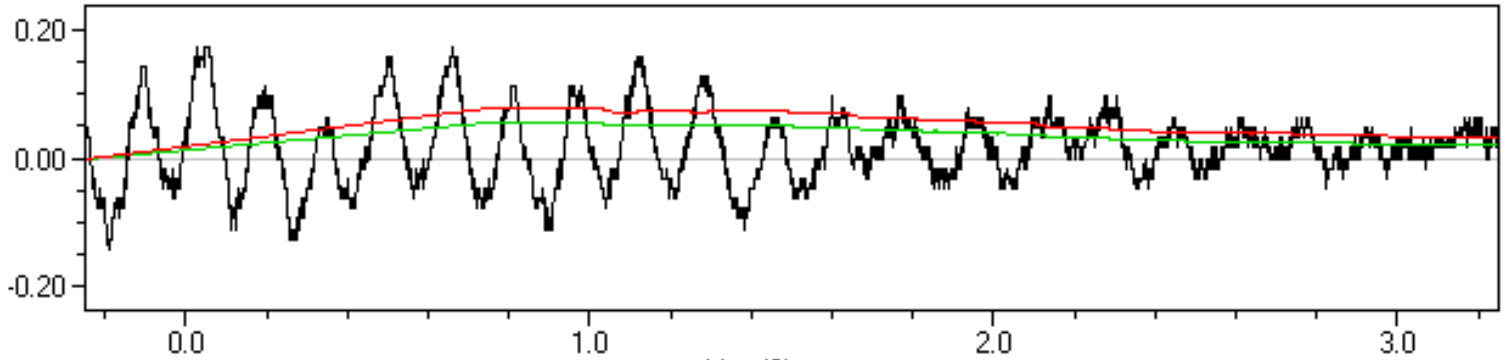
Record Time: 3.25 sec

Sample Rate: 1024 sps

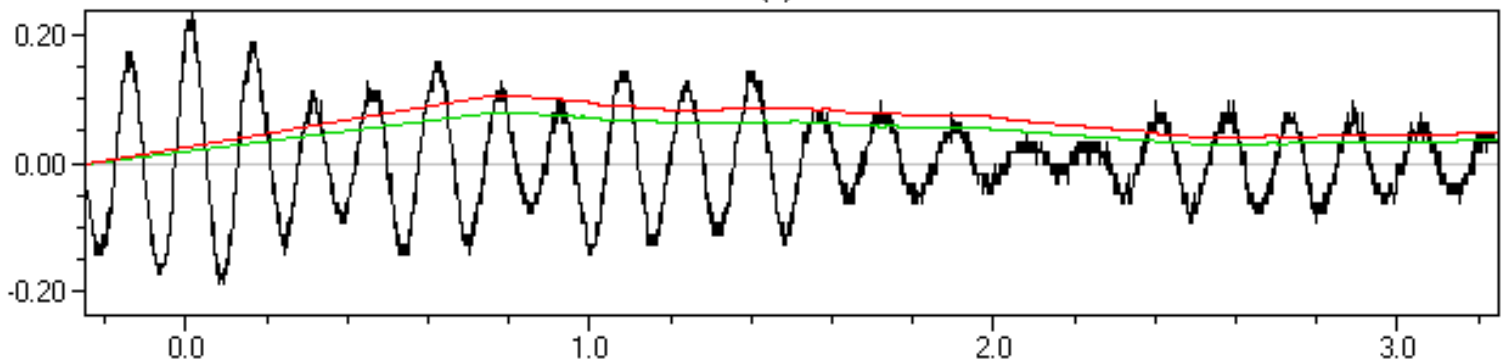
Calibration: May 17, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.0952	0.238	0.175	mm/s	
ZC Freq	4.2	6.8	5.8	Hz	
Time of Peak	0.093	0.013	0.025	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00326	0.00535	0.00503	mm	rms of magnitude
RMS (1s fw 5.6)	0,02	0,08	0,05		0,10
RMS (1s)	0,05	0,11	0,08		0,14

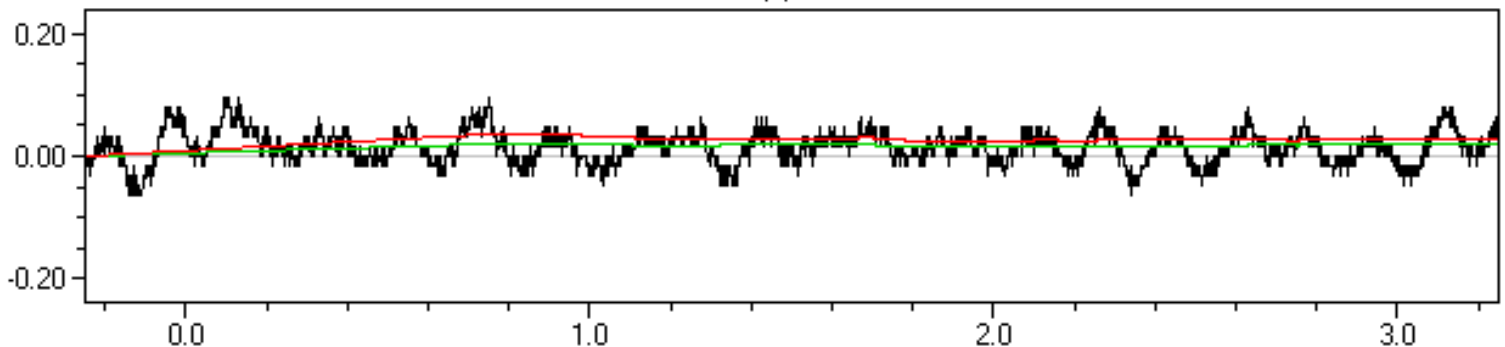
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 06:44:56

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHE0.2W0

Trigger: Tran

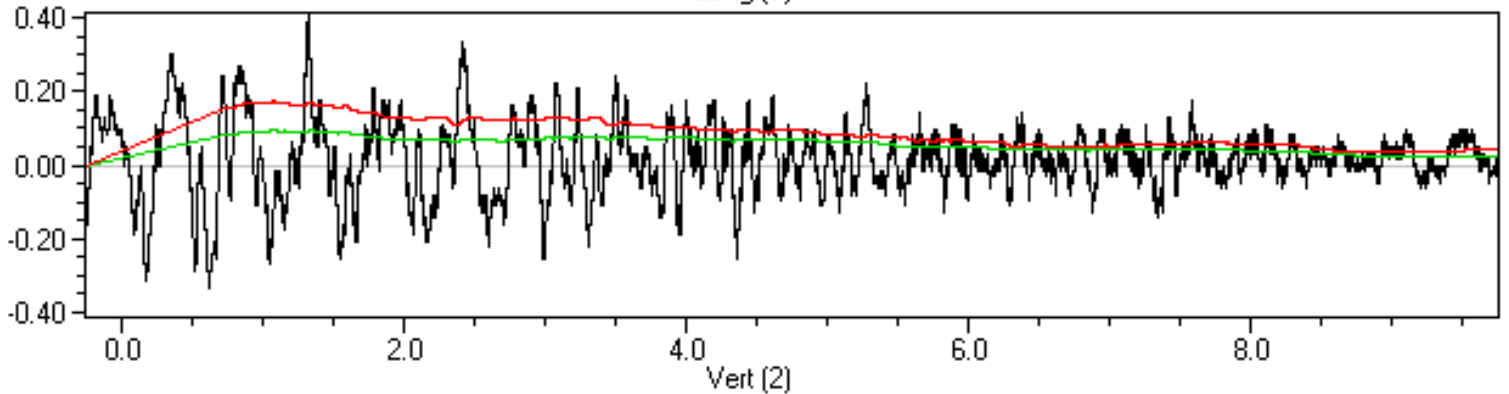
Record Time: 9.75 sec

Sample Rate: 1024 sps

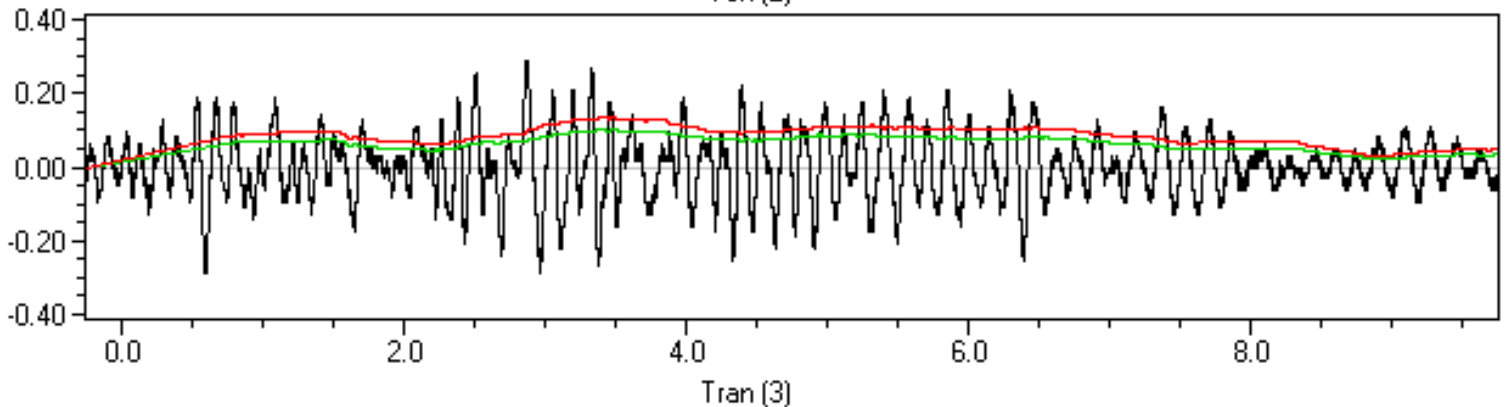
Calibration: May 17, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.206	0.286	0.413	mm/s	
ZC Freq	6.2	7.5	2.5	Hz	
Time of Peak	-0.005	0.598	1.330	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00733	0.00698	0.0178	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,10	0,09		0,13
RMS (1s)	0,09	0,13	0,17		0,21

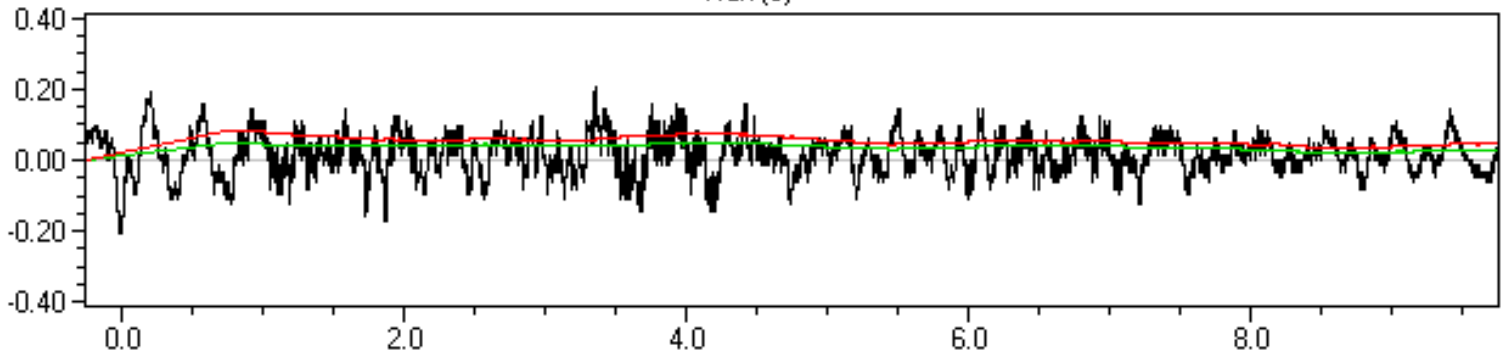
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 15:50:47

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHEP.CN0

Trigger: Long

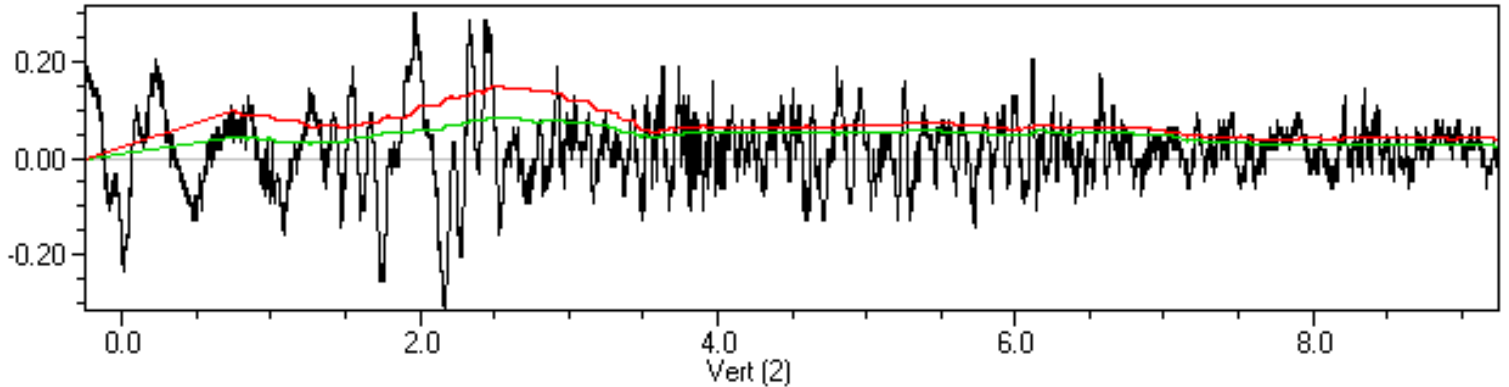
Record Time: 9.25 sec

Sample Rate: 1024 sps

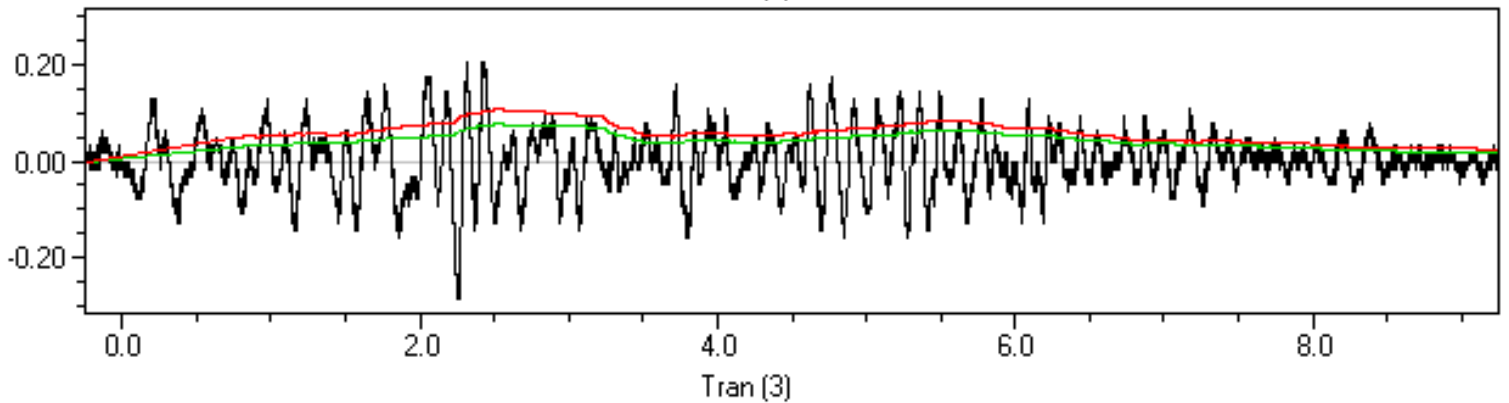
Calibration: May 17, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.238	0.286	0.317	mm/s	
ZC Freq	2.5	7.0	4.3	Hz	
Time of Peak	1.115	2.255	2.161	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.0127	0.00691	0.0154	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,08	0,08		0,12
RMS (1s)	0,09	0,11	0,15		0,20

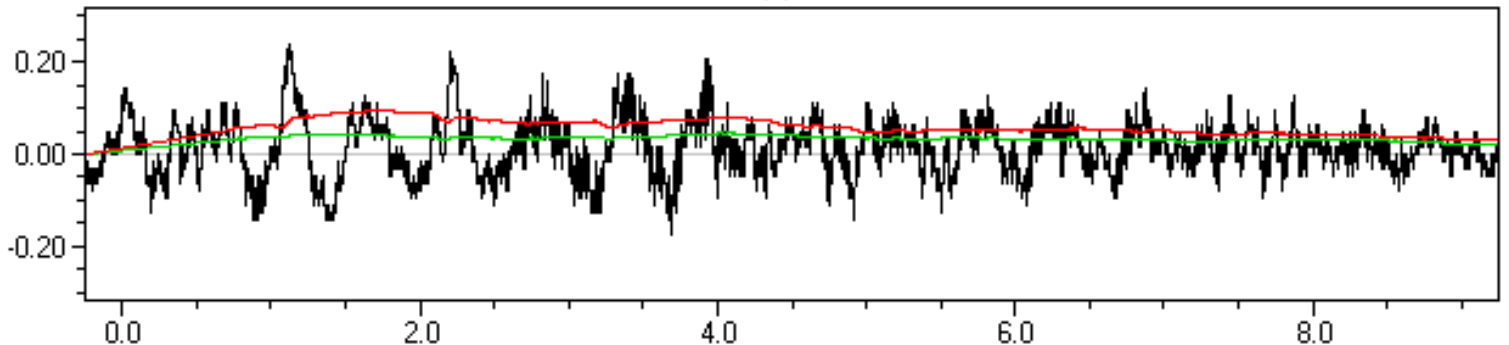
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 07:13:42

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BFW.2U0

Trigger: Long

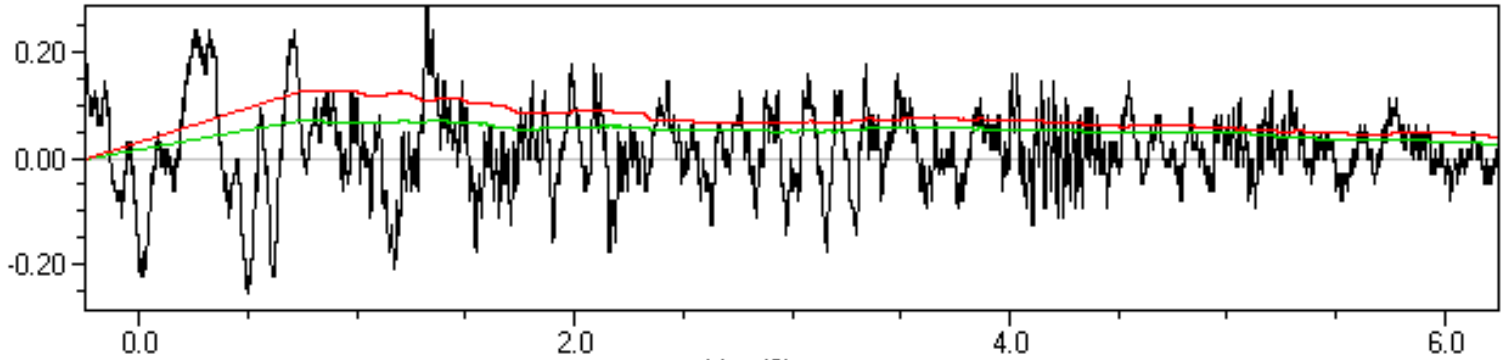
Record Time: 6.25 sec

Sample Rate: 1024 sps

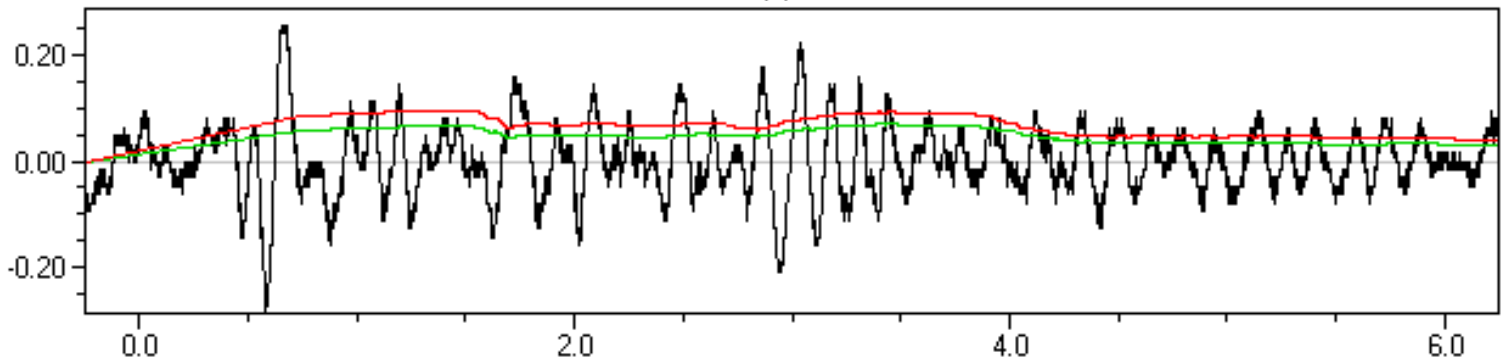
Calibration: May 17, 2005 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.206	0.286	0.286	mm/s	
ZC Freq	5.0	7.3	5.1	Hz	
Time of Peak	0.557	0.581	1.317	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00805	0.00785	0.0157	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,07	0,07		0,11
RMS (1s)	0,08	0,10	0,13		0,17

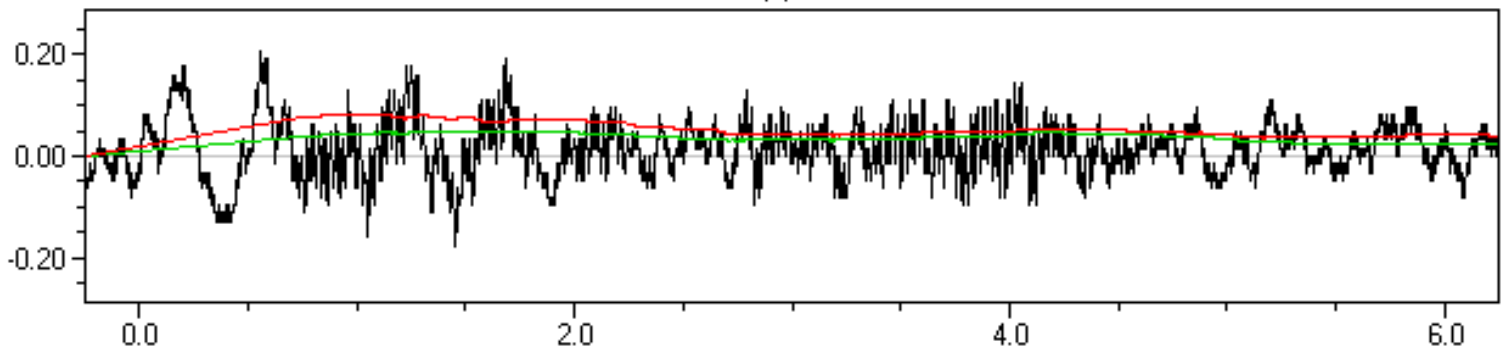
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 08:33:15

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHFZ.RF0

Trigger: Long

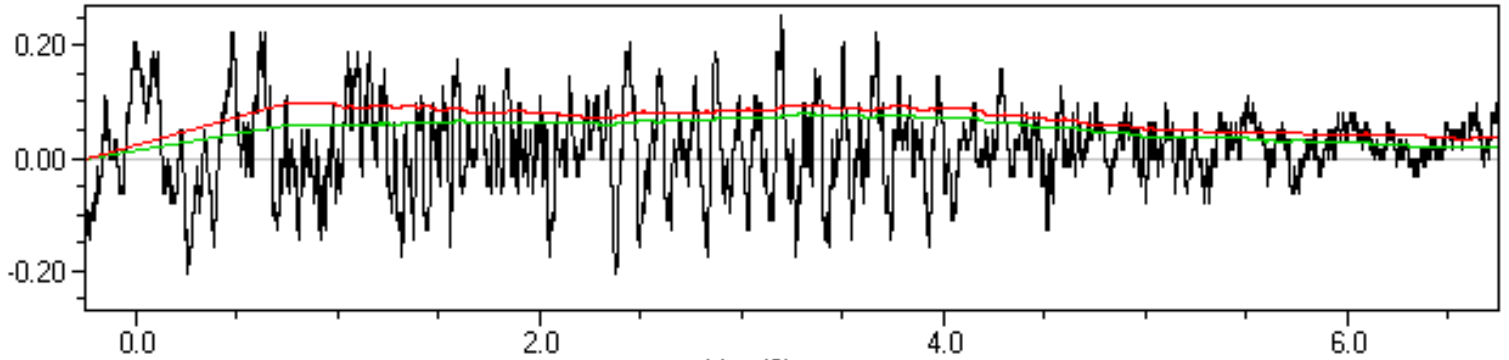
Record Time: 6.75 sec

Sample Rate: 1024 sps

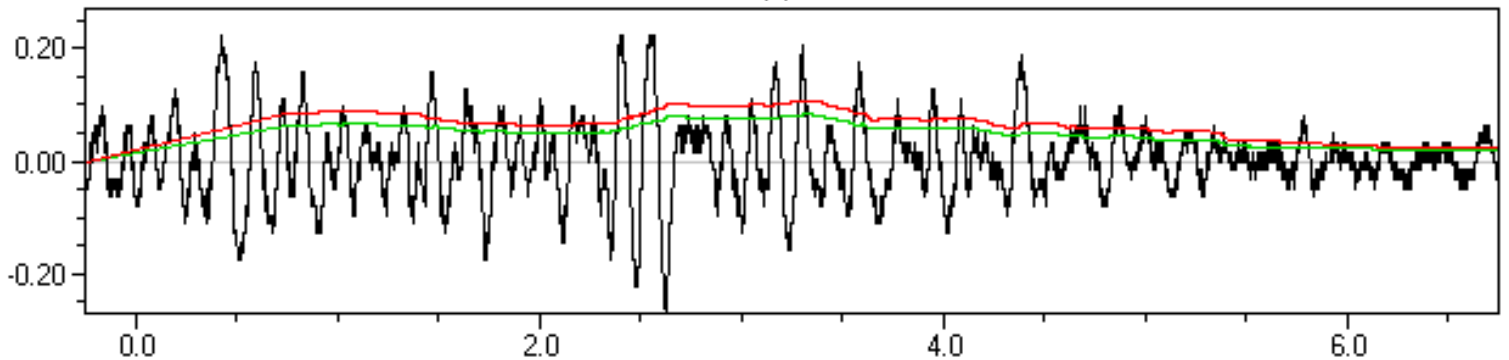
Calibration: May 17, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.159	0.270	0.254	mm/s	
ZC Freq	11	7.1	9.8	Hz	
Time of Peak	1.403	2.623	3.199	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00494	0.00633	0.0114	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,08	0,08		0,12
RMS (1s)	0,07	0,11	0,10		0,16

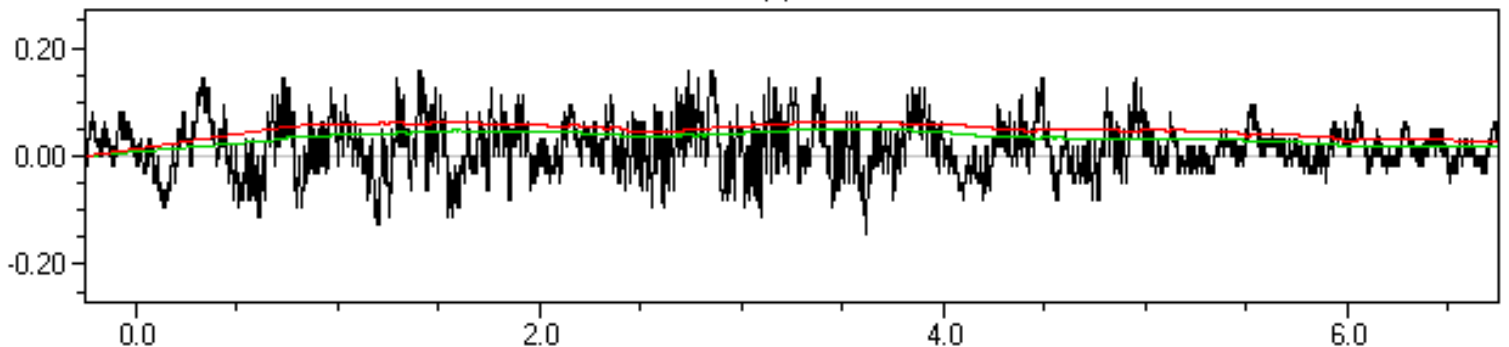
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 14:34:51

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHGG.I30

Trigger: Vert

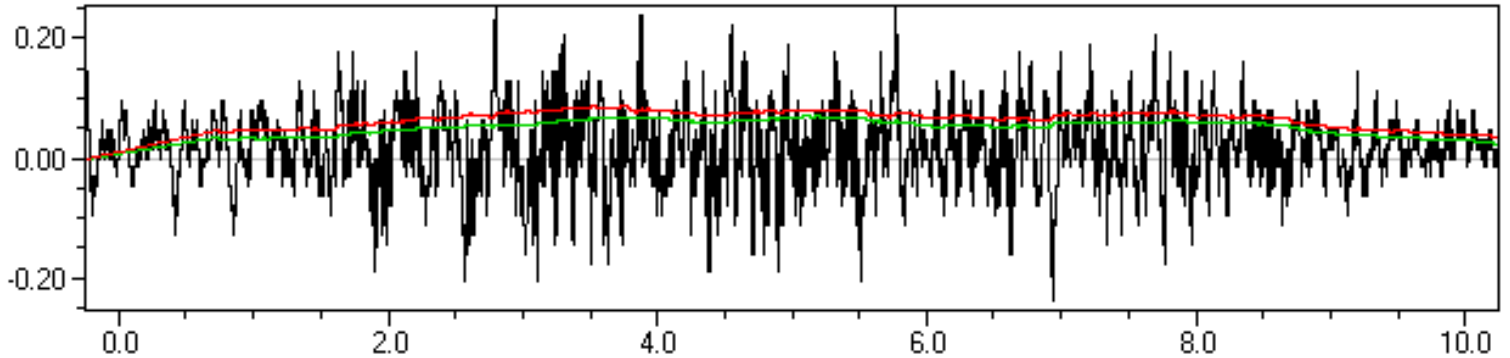
Record Time: 10.25 sec

Sample Rate: 1024 sps

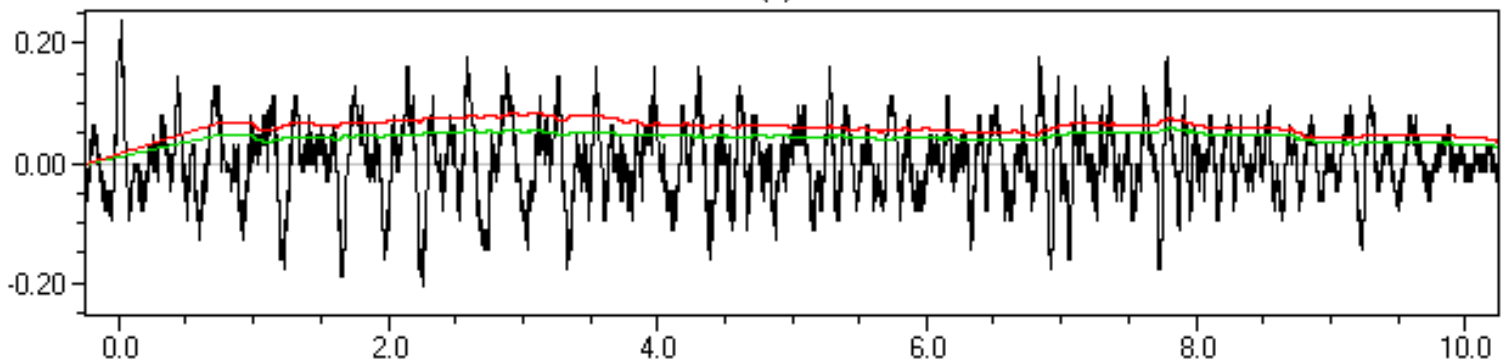
Calibration: May 17, 2005 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.254	0.238	0.254	mm/s	
ZC Freq	26	6.6	5.0	Hz	
Time of Peak	4.549	0.016	2.801	Sec	
Peak Acceleration	0.00497	0.00497	0.00663	g	
Peak Displacement	0.00689	0.00543	0.00552	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,06	0,07		0,10
RMS (1s)	0,08	0,08	0,09		0,14

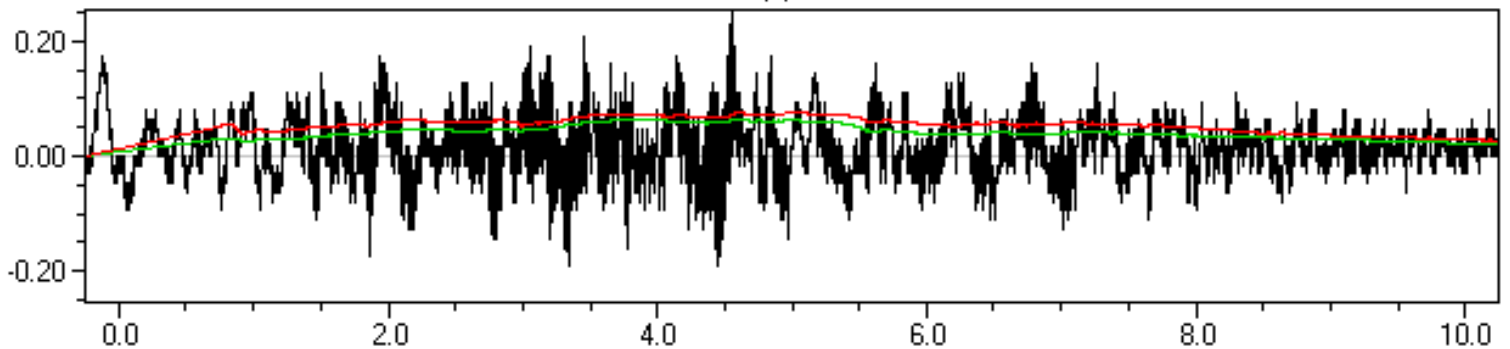
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 18:46:14

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHGS.520

Trigger: Long

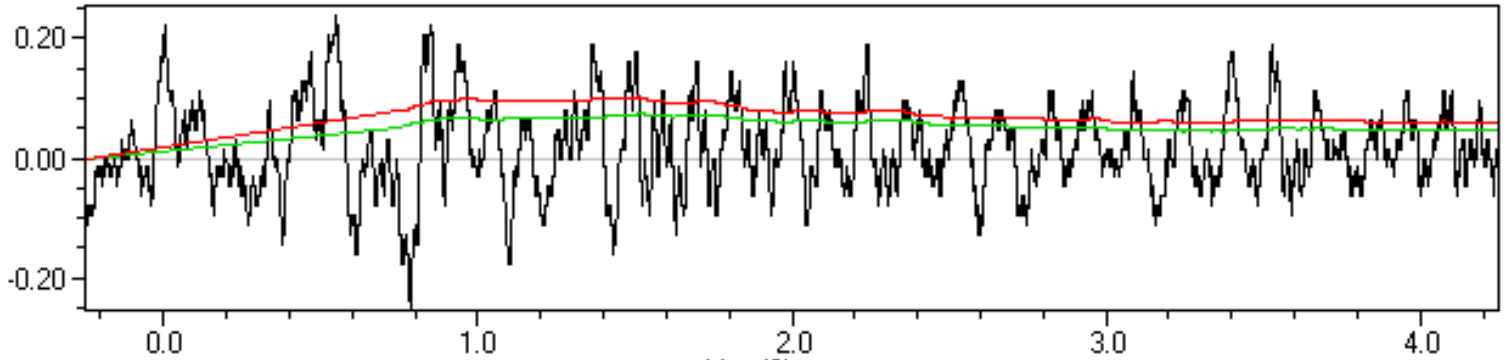
Record Time: 4.25 sec

Sample Rate: 1024 sps

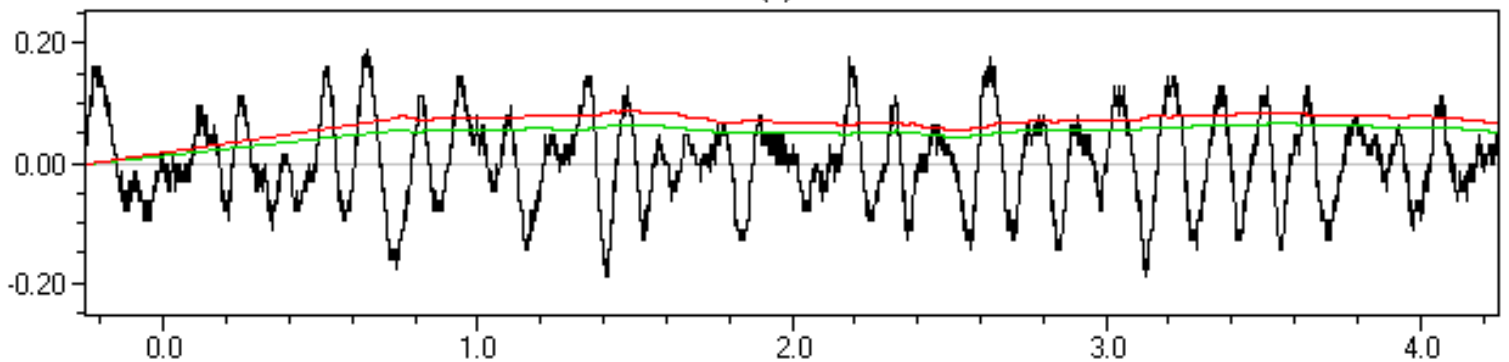
Calibration: May 17, 2005 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.175	0.190	0.254	mm/s	
ZC Freq	4.8	6.6	7.1	Hz	
Time of Peak	1.562	0.645	0.785	Sec	
Peak Acceleration	0.00497	0.00331	0.00497	g	
Peak Displacement	0.00498	0.00486	0.00529	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,07	0,07		0,10
RMS (1s)	0,05	0,09	0,10		0,14

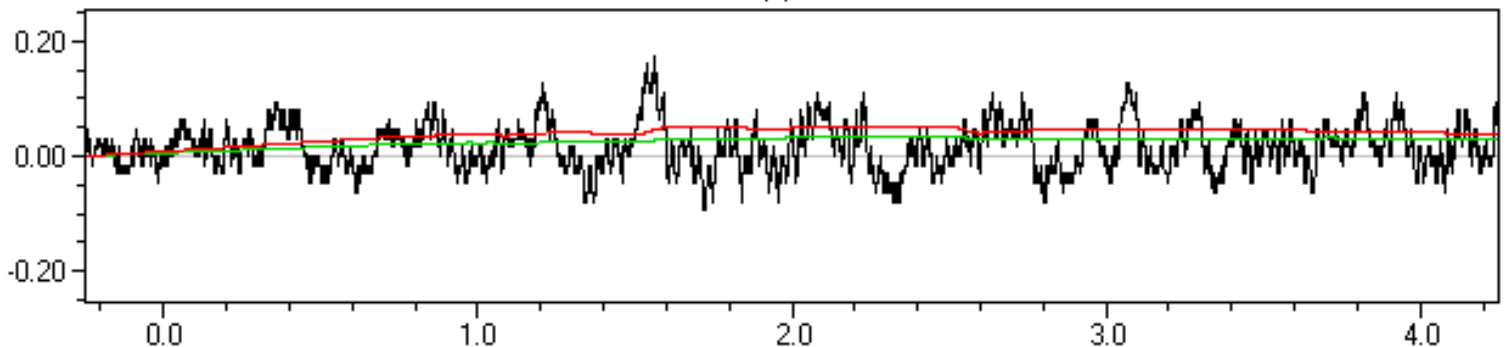
Long (1)



Vert (2)



Tran (3)





Event Date: January 4, 2007

Event Time: 05:46:38

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 09-2727890

Job Number: 5296

Extended Notes:

Serial Number: BE10212, V 8.01-8.0 MiniMate Plus

File Name: L212BHBM.PQ0

Trigger: Long

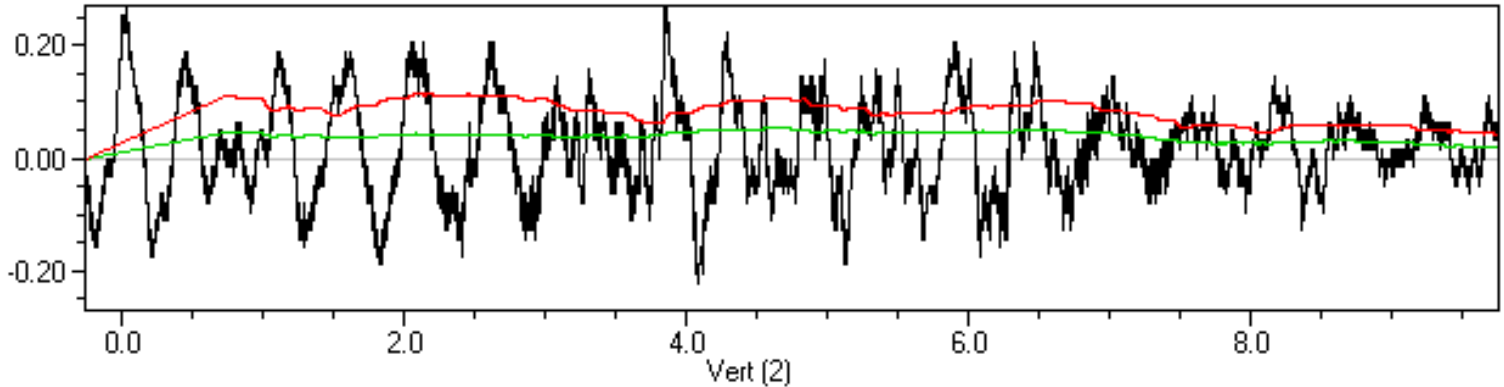
Record Time: 9.75 sec

Sample Rate: 1024 sps

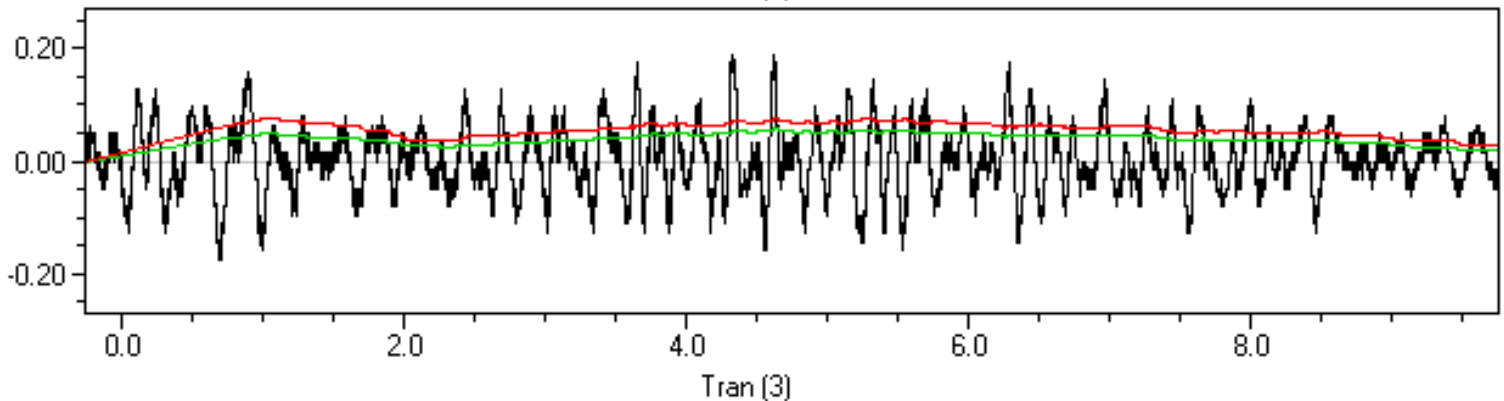
Calibration: May 17, 2005 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.254	0.190	0.270	mm/s	
ZC Freq	2.2	7.1	2.5	Hz	
Time of Peak	1.350	4.332	0.041	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.0167	0.00491	0.0152	mm	rms of magnitude
RMS (1s fw 5.6)	0,04	0,06	0,05		0,09
RMS (1s)	0,12	0,08	0,11		0,16

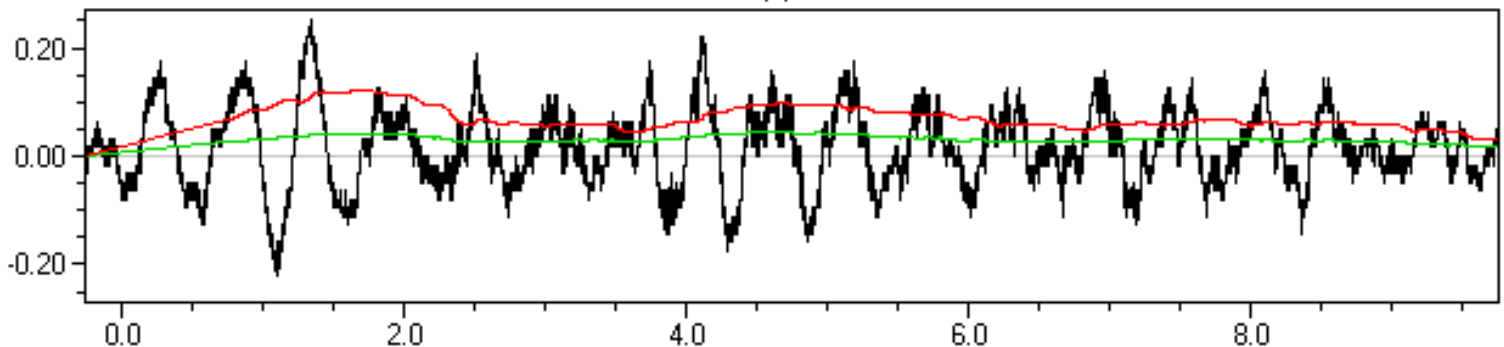
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 20:44:55

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHBD.MV0

Trigger: Vert

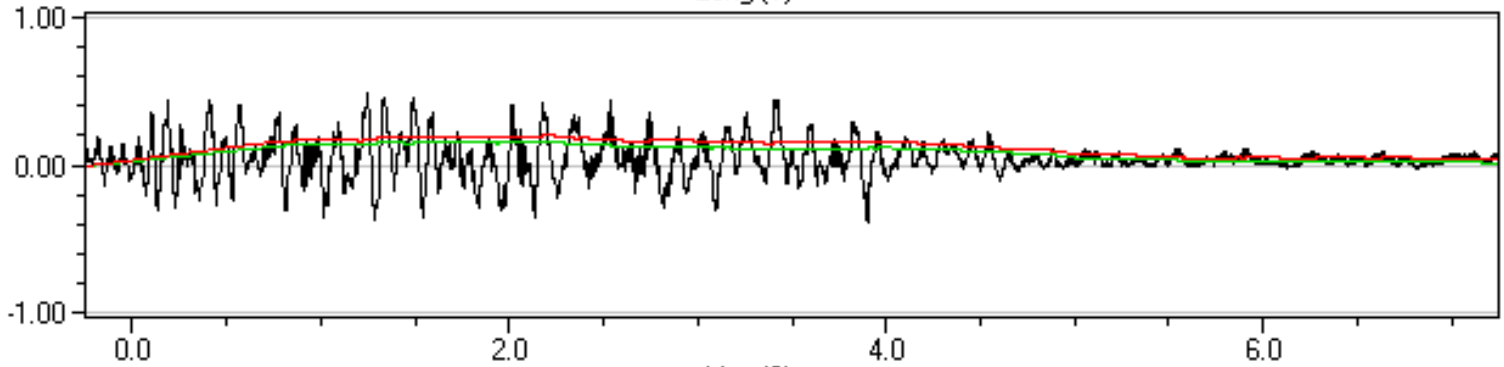
Record Time: 7.25 sec

Sample Rate: 1024 sps

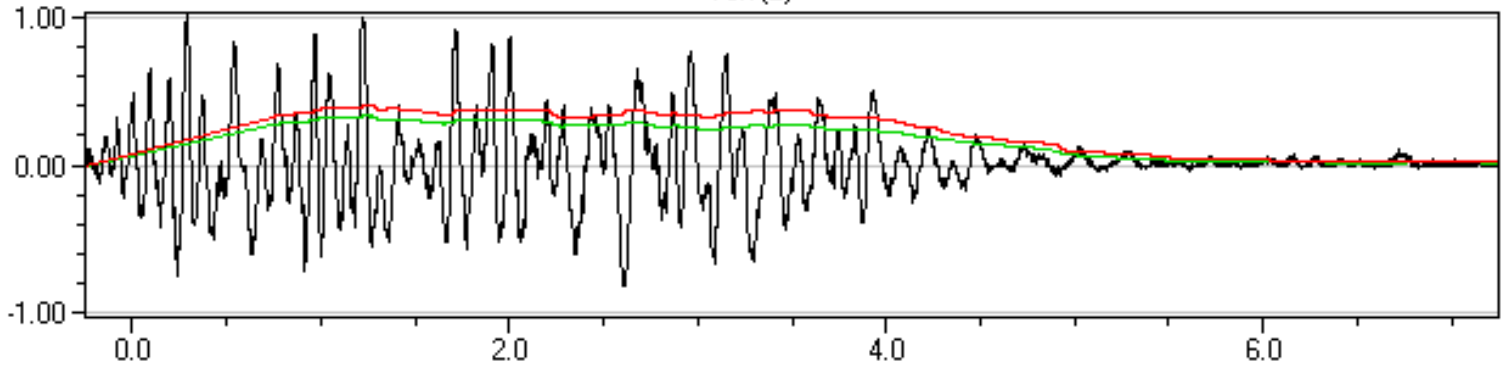
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.413	1.03	0.492	mm/s	
ZC Freq	6.6	11	7.0	Hz	
Time of Peak	2.146	0.288	1.244	Sec	
Peak Acceleration	0.00829	0.00994	0.00829	g	
Peak Displacement	0.00905	0.0196	0.0102	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,33	0,16		0,38
RMS (1s)	0,15	0,40	0,20		0,46

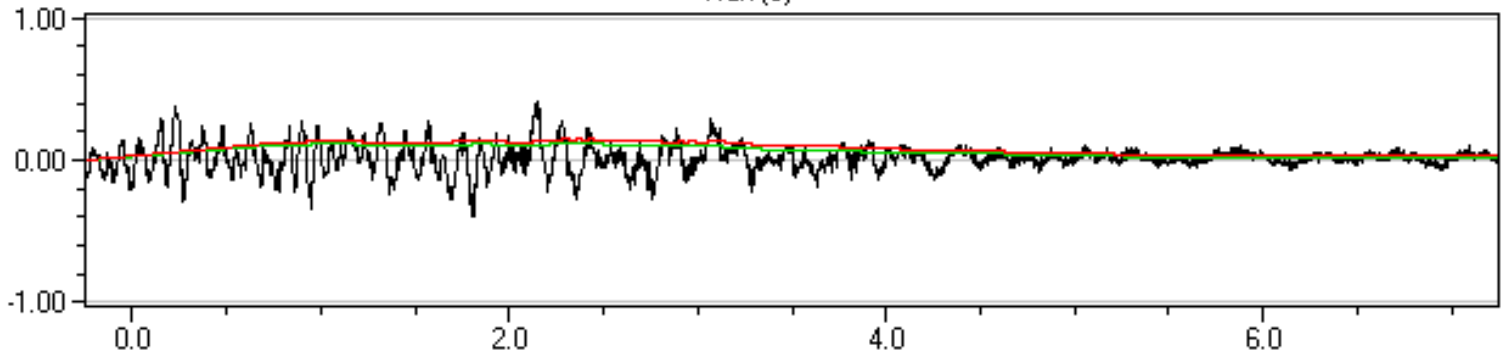
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 22:45:14

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHBj.7E0

Trigger: Vert

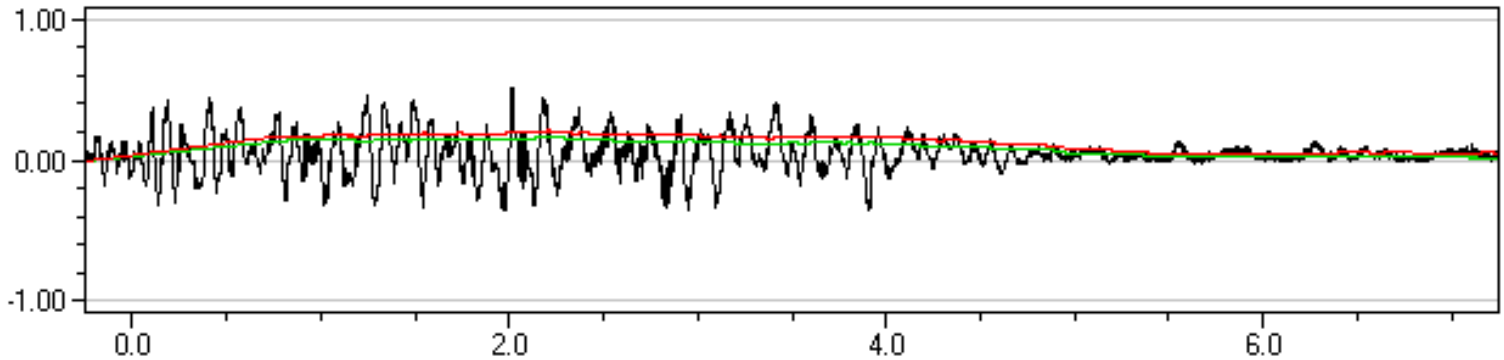
Record Time: 7.25 sec

Sample Rate: 1024 sps

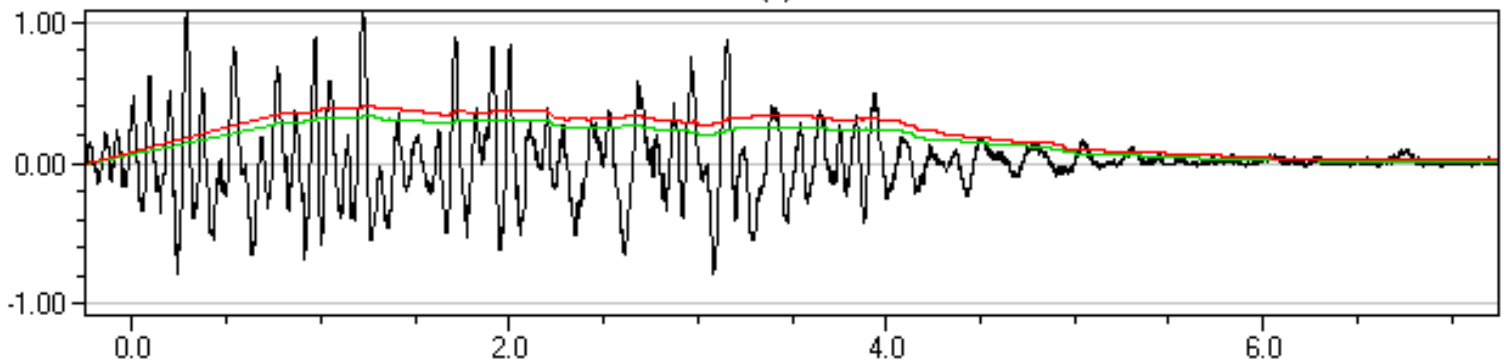
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.413	1.08	0.508	mm/s	
ZC Freq	9.7	11	10	Hz	
Time of Peak	1.808	0.286	2.013	Sec	
Peak Acceleration	0.00663	0.0116	0.00829	g	
Peak Displacement	0.00859	0.0209	0.00994	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,34	0,16		0,38
RMS (1s)	0,14	0,41	0,21		0,46

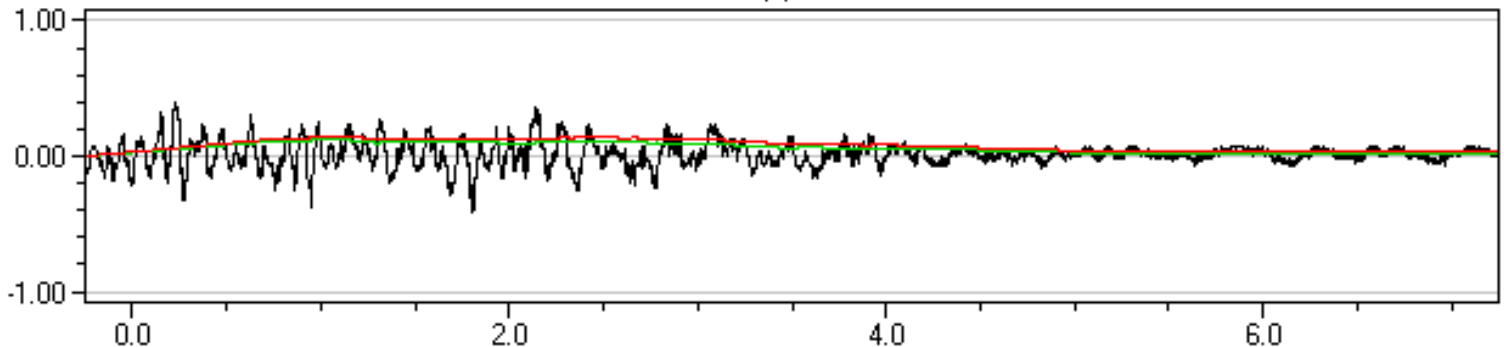
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 02:32:33

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHBT.Q90

Trigger: Vert

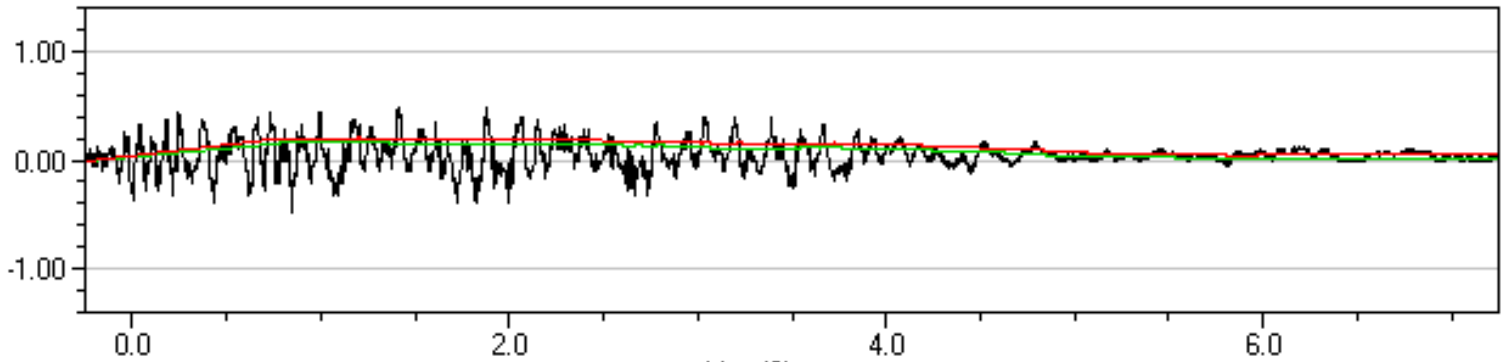
Record Time: 7.25 sec

Sample Rate: 1024 sps

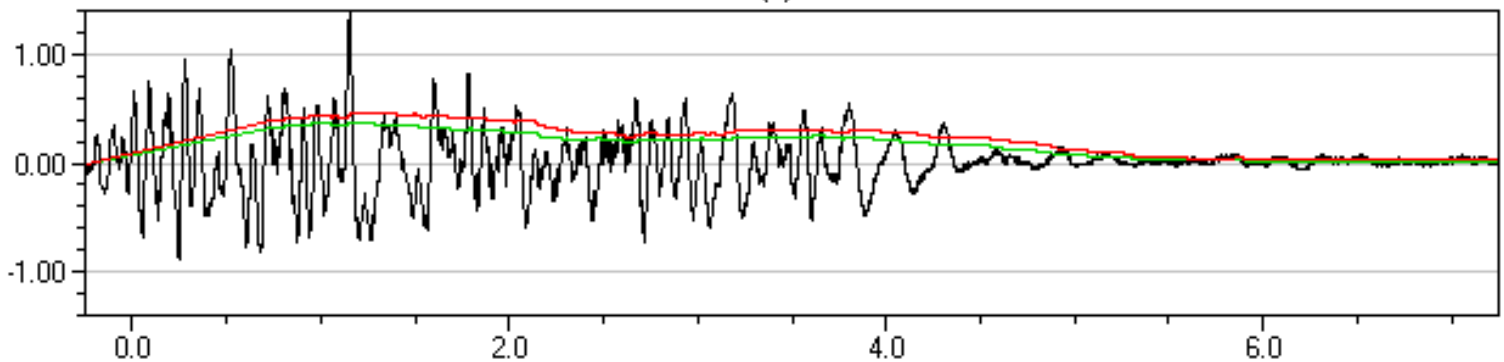
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.413	1.40	0.492	mm/s	
ZC Freq	8.4	10	16	Hz	
Time of Peak	0.229	1.153	0.845	Sec	
Peak Acceleration	0.00663	0.0116	0.00994	g	
Peak Displacement	0.00739	0.0314	0.0112	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,38	0,17		0,43
RMS (1s)	0,16	0,47	0,20		0,53

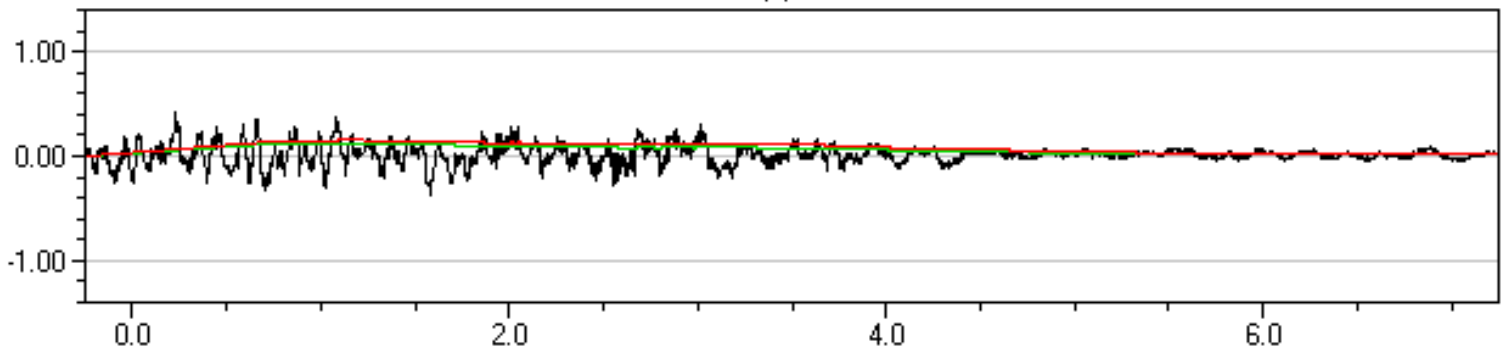
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 04:57:29

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHC0.FT0

Trigger: Vert

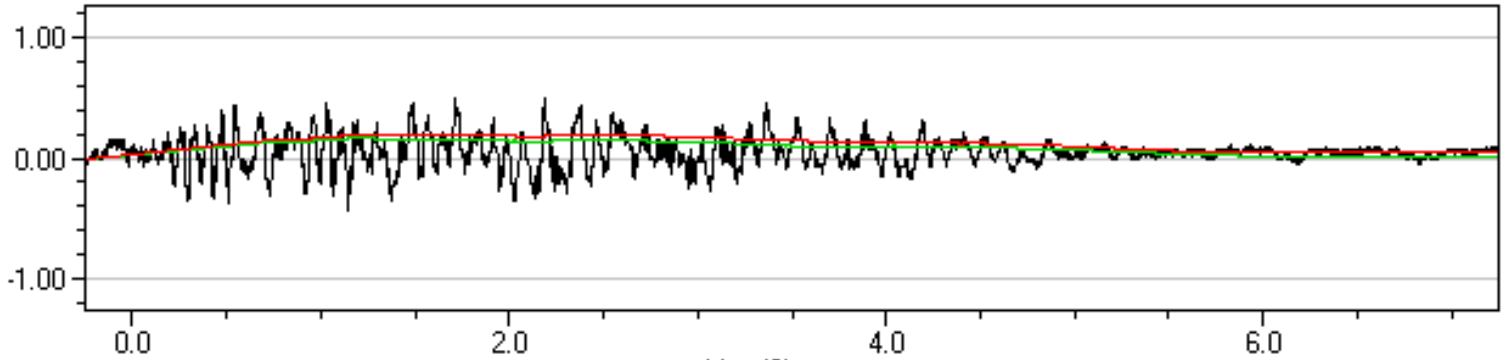
Record Time: 7.25 sec

Sample Rate: 1024 sps

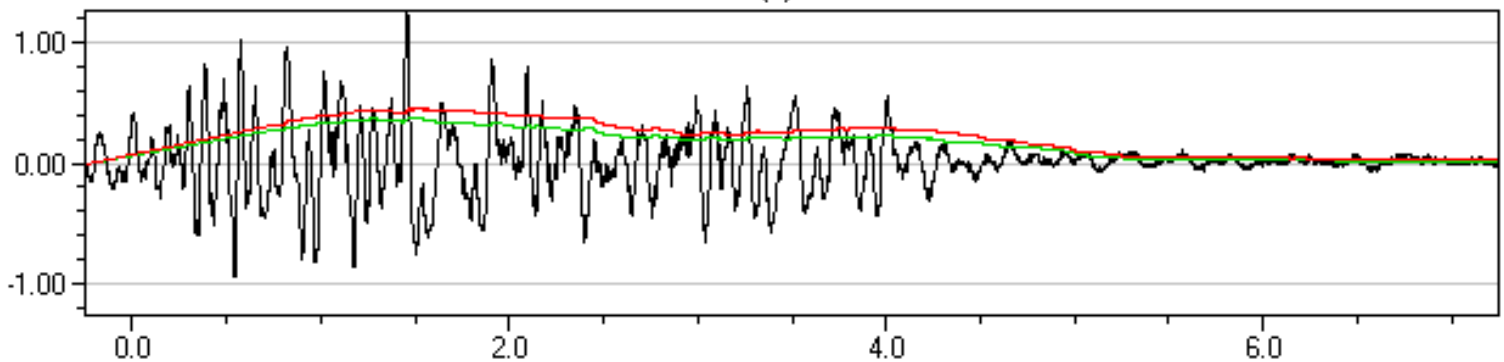
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.429	1.27	0.508	mm/s	
ZC Freq	9.1	10	12	Hz	
Time of Peak	0.524	1.455	2.186	Sec	
Peak Acceleration	0.00829	0.0116	0.00829	g	
Peak Displacement	0.00739	0.0308	0.0128	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,38	0,17		0,43
RMS (1s)	0,16	0,46	0,20		0,52

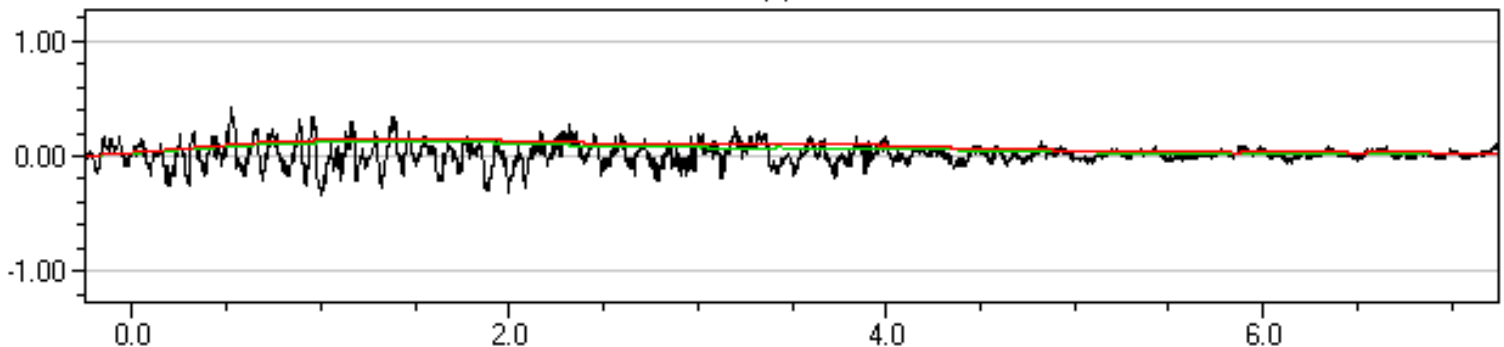
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 14:34:34

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHCR.5M0

Trigger: Vert

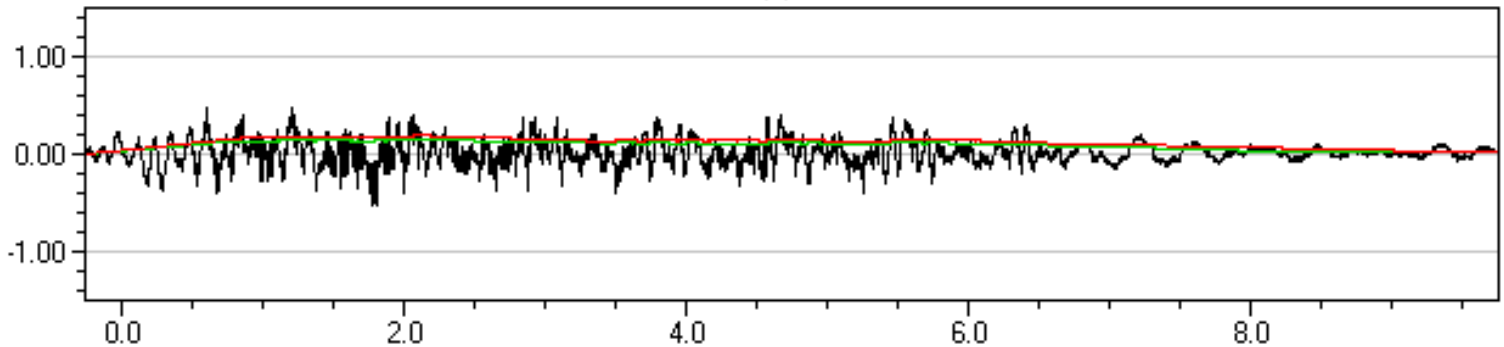
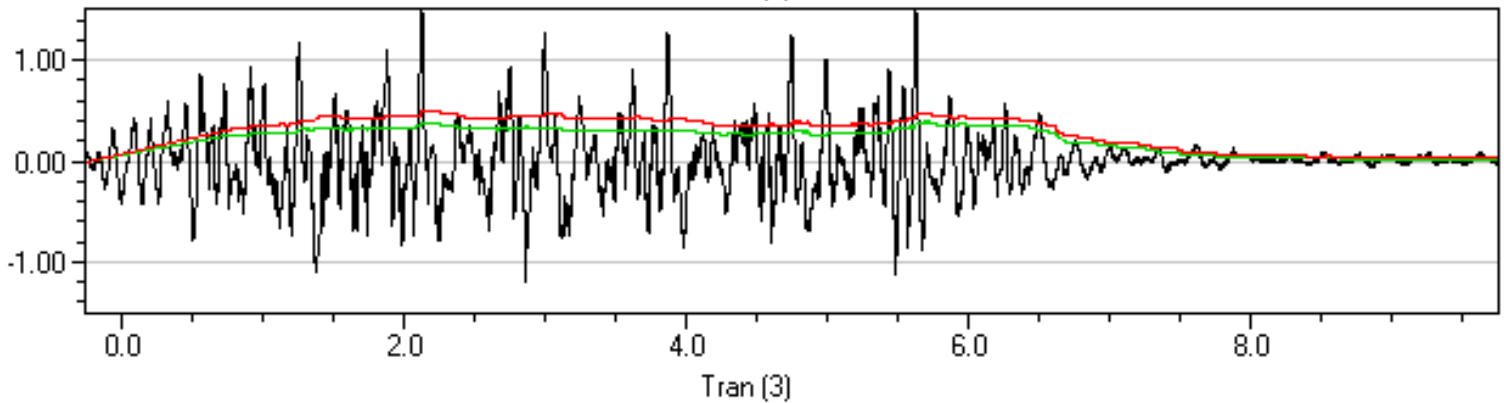
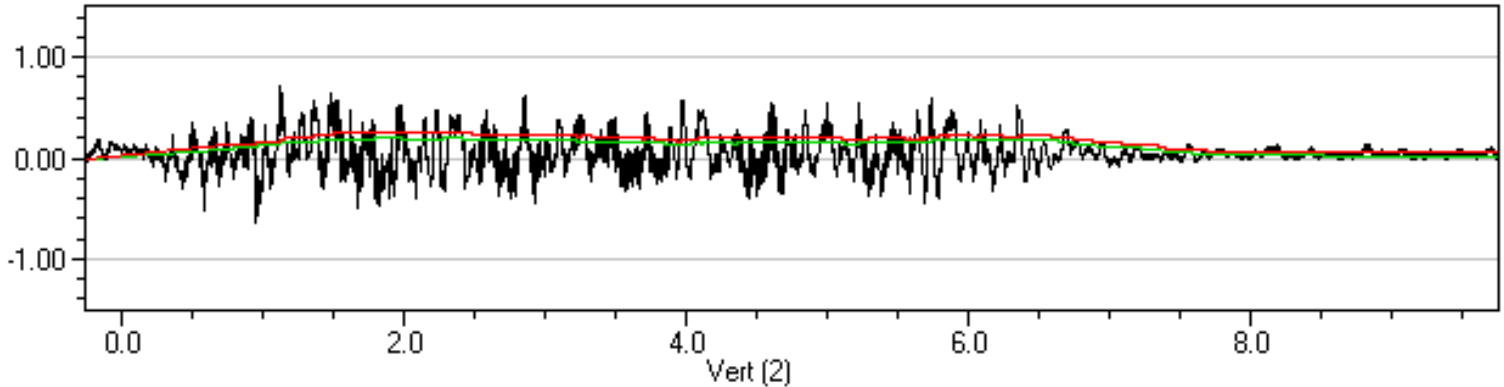
Record Time: 9.75 sec

Sample Rate: 1024 sps

Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.524	1.51	0.714	mm/s	
ZC Freq	5.0	9.0	6.6	Hz	
Time of Peak	1.781	2.129	1.125	Sec	
Peak Acceleration	0.0116	0.0149	0.0116	g	
Peak Displacement	0.0112	0.0304	0.0168	mm	rms of magnitude
RMS (1s fw 5.6)	0,15	0,39	0,20		0,45
RMS (1s)	0,19	0,50	0,27		0,59

Long (1)





Event Date: January 2, 2007

Event Time: 06:44:48

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHE0.200

Trigger: Vert

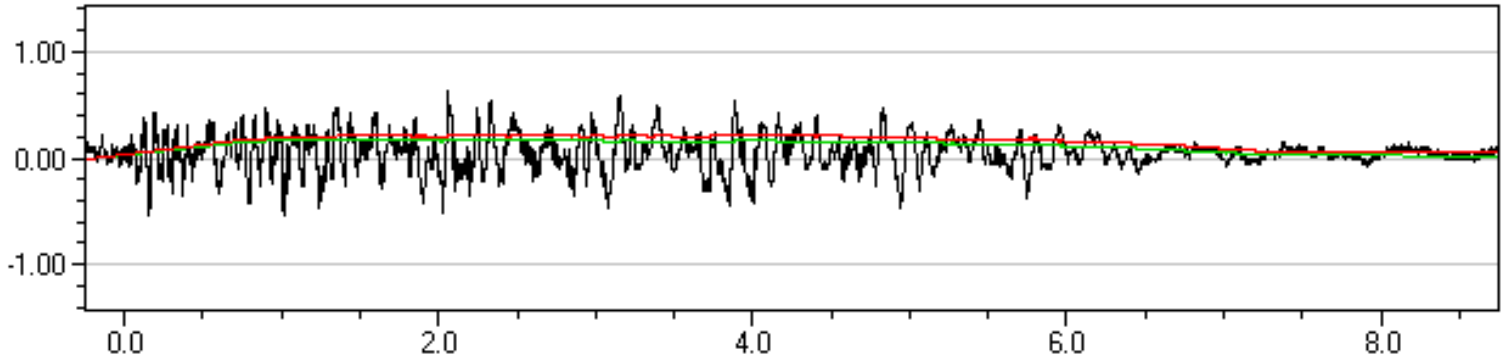
Record Time: 8.75 sec

Sample Rate: 1024 sps

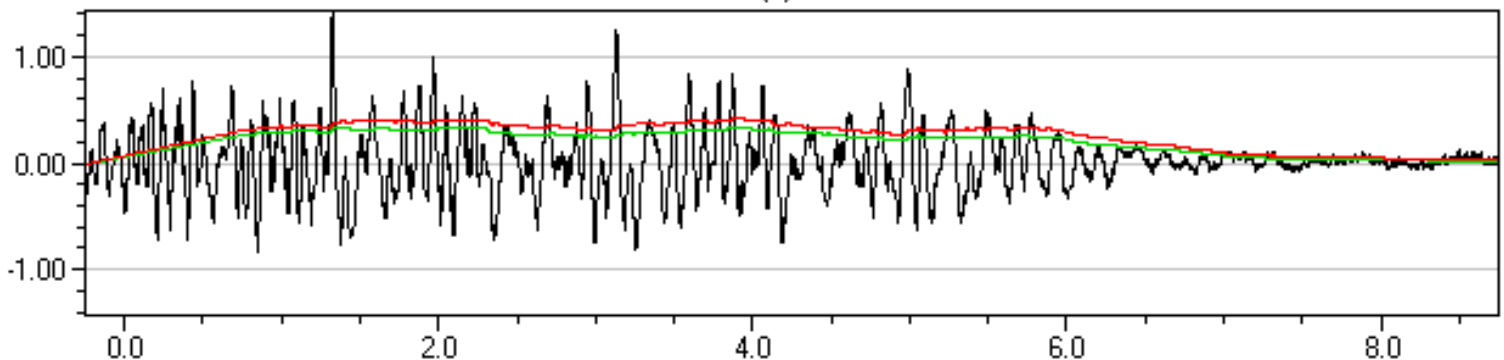
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.413	1.43	0.635	mm/s	
ZC Freq	6.2	10	13	Hz	
Time of Peak	3.990	1.323	2.061	Sec	
Peak Acceleration	0.00829	0.0116	0.0116	g	
Peak Displacement	0.00957	0.0226	0.0144	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,33	0,18		0,40
RMS (1s)	0,15	0,42	0,23		0,49

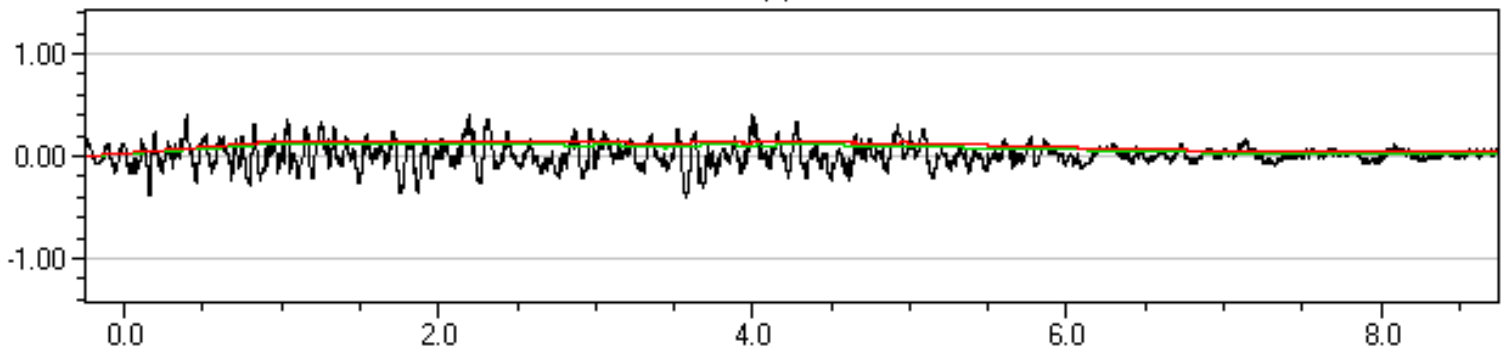
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 09:46:27

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHE8.HF0

Trigger: Vert

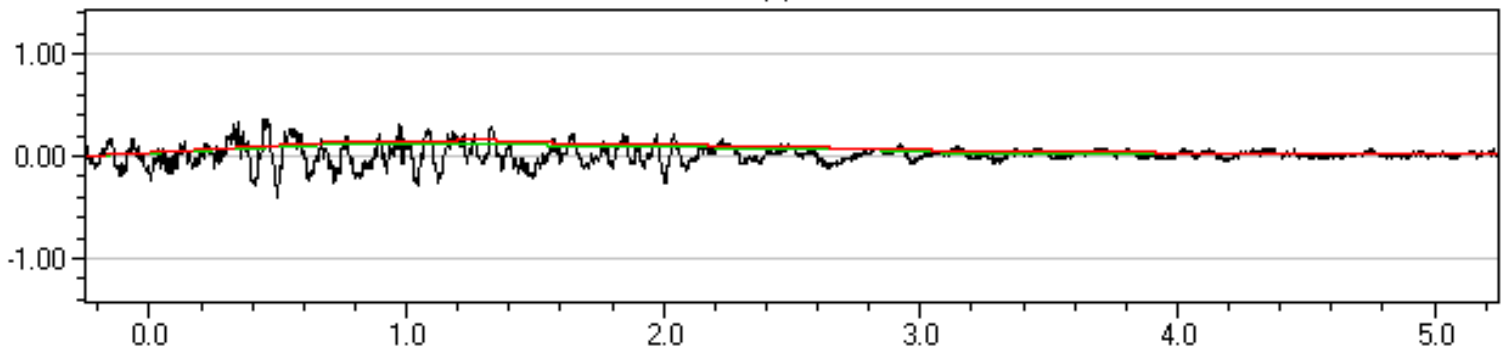
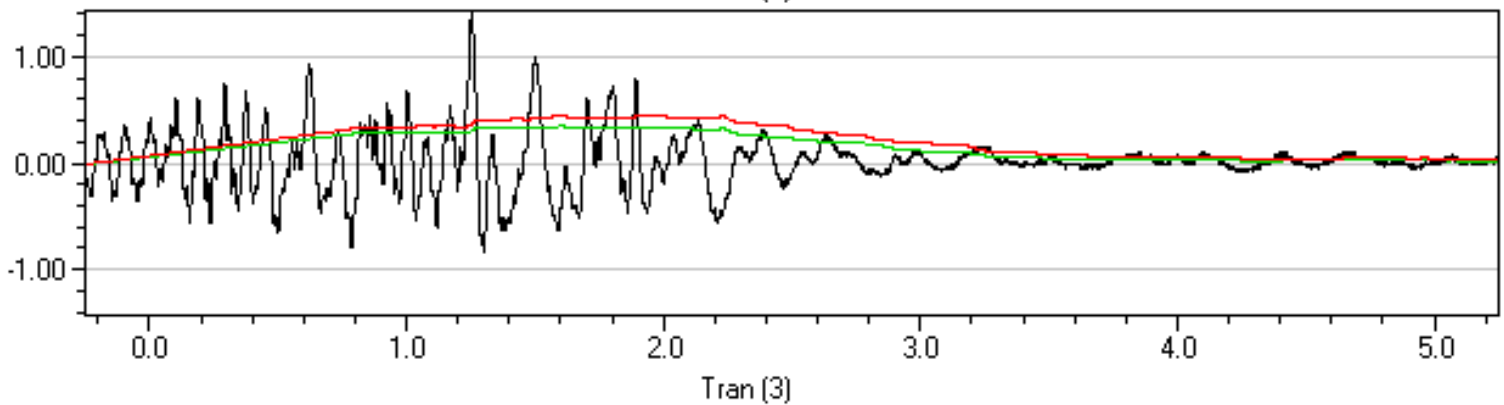
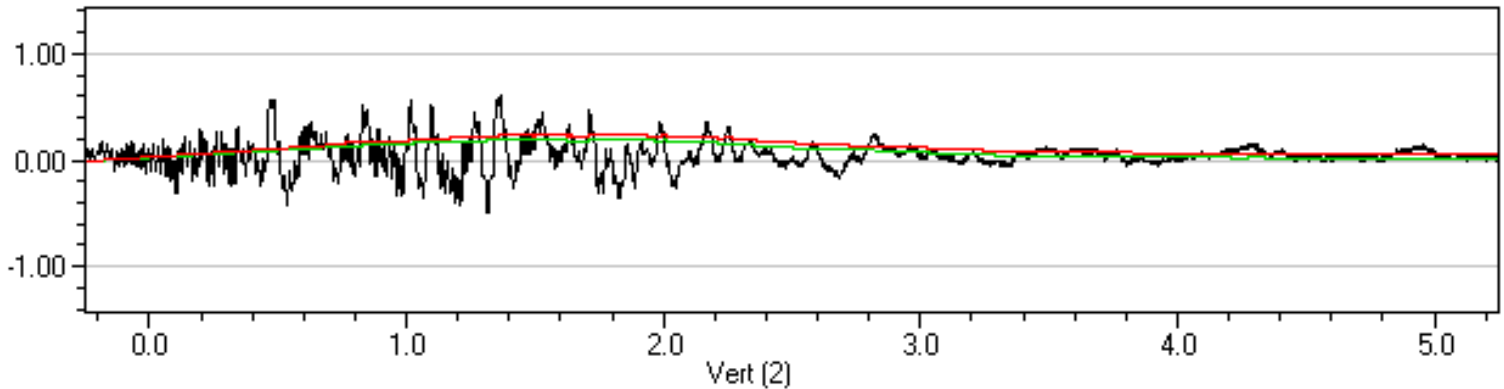
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.397	1.43	0.603	mm/s	
ZC Freq	13	9.0	9.3	Hz	
Time of Peak	0.496	1.253	1.363	Sec	
Peak Acceleration	0.00663	0.0116	0.00994	g	
Peak Displacement	0.00708	0.0256	0.0125	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,34	0,20		0,41
RMS (1s)	0,16	0,44	0,24		0,52

Long (1)





Event Date: January 2, 2007

Event Time: 10:49:43

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHEB.EVO

Trigger: Vert

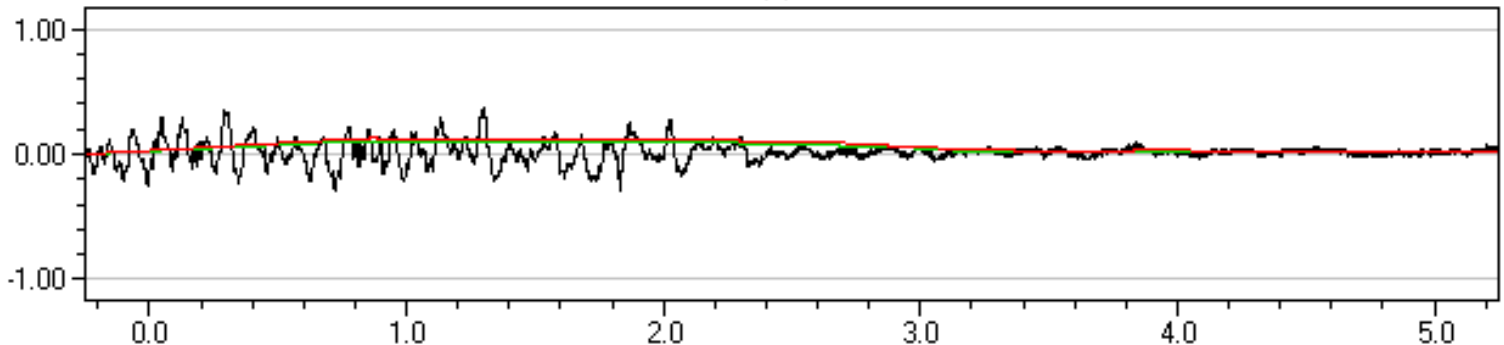
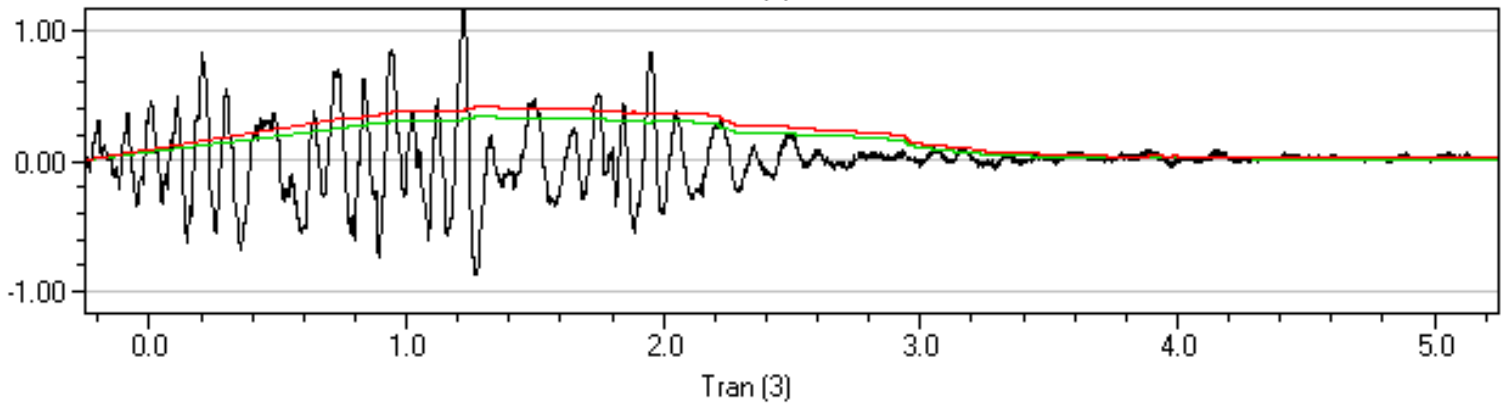
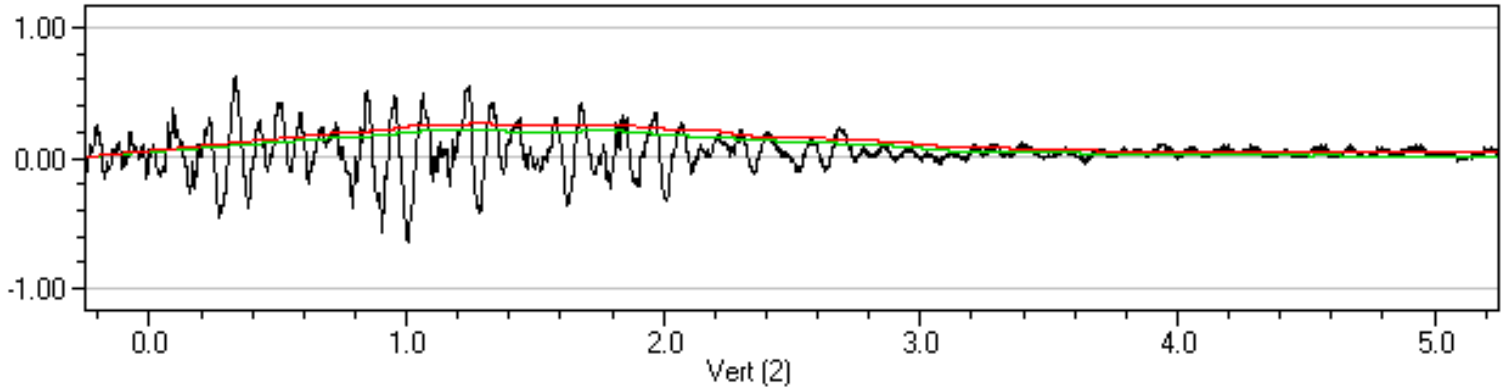
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.365	1.17	0.651	mm/s	
ZC Freq	10	8.8	8.7	Hz	
Time of Peak	1.301	1.218	1.007	Sec	
Peak Acceleration	0.00663	0.0116	0.00829	g	
Peak Displacement	0.00536	0.0200	0.0106	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,35	0,22		0,42
RMS (1s)	0,13	0,43	0,27		0,52

Long (1)





Event Date: January 2, 2007

Event Time: 11:44:49

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHED.YP0

Trigger: Vert

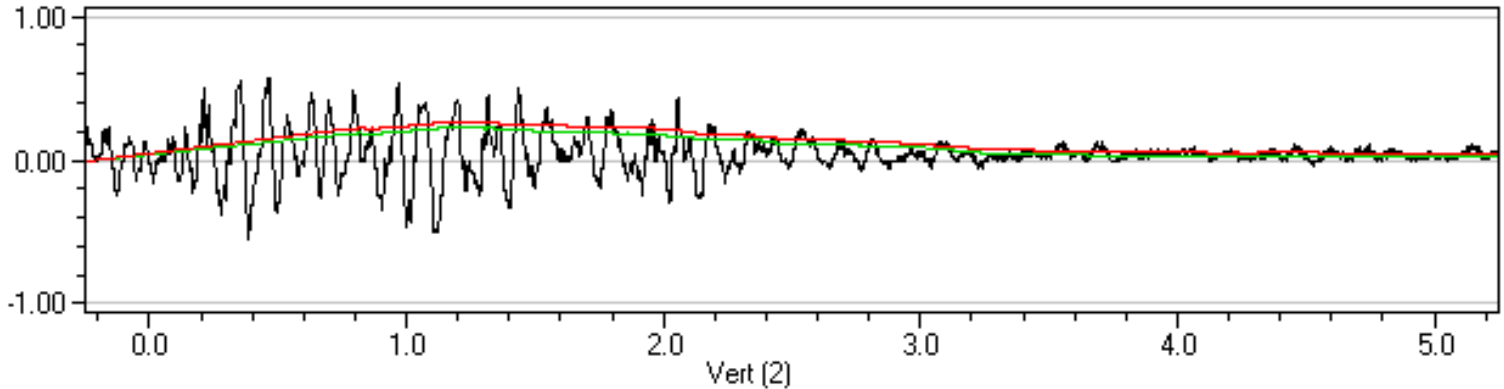
Record Time: 5.25 sec

Sample Rate: 1024 sps

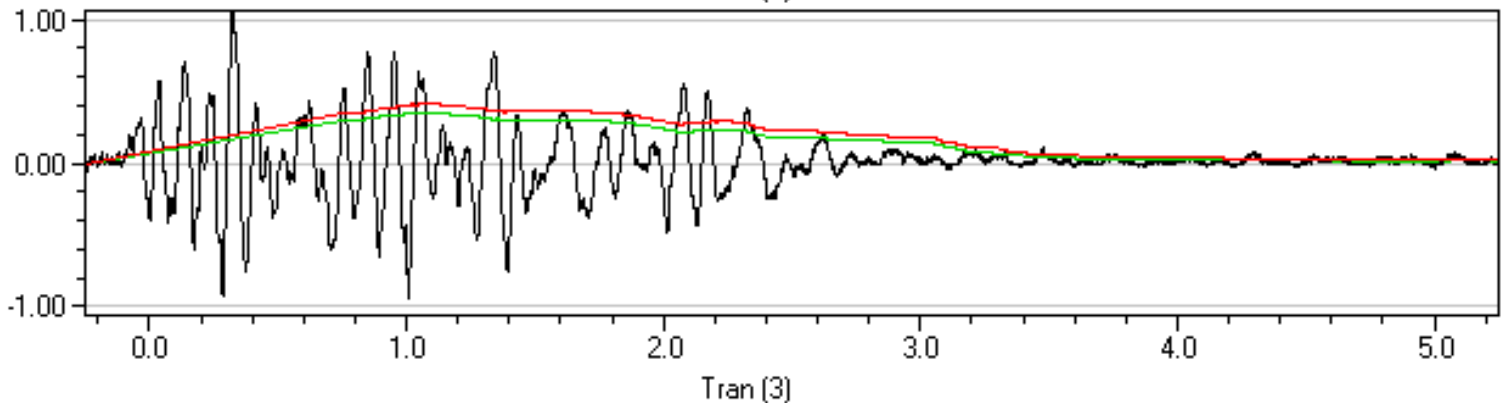
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.365	1.06	0.571	mm/s	
ZC Freq	13	9.8	9.0	Hz	
Time of Peak	0.741	0.322	0.462	Sec	
Peak Acceleration	0.00663	0.00994	0.00829	g	
Peak Displacement	0.00642	0.0171	0.00896	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,35	0,23		0,43
RMS (1s)	0,14	0,41	0,27		0,51

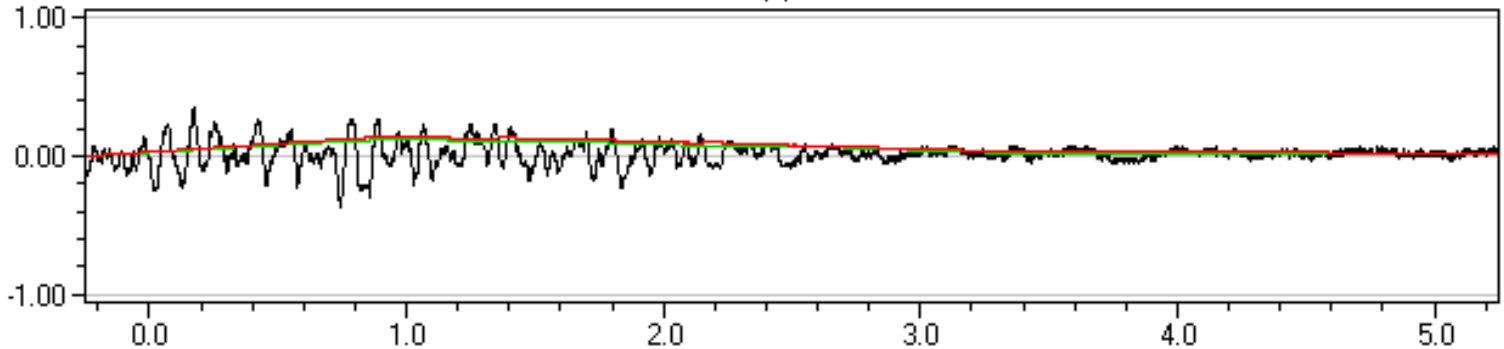
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 14:34:36

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHEL.T00

Trigger: Vert

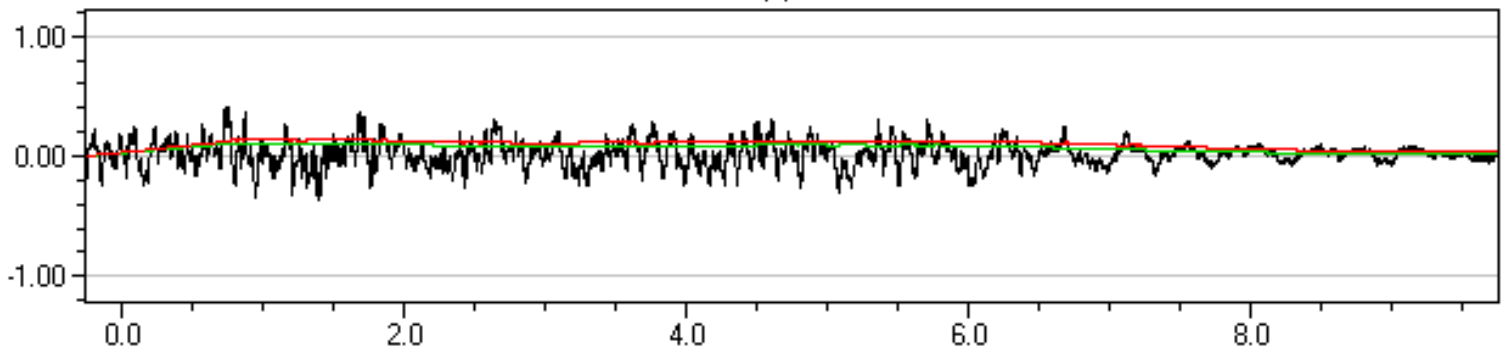
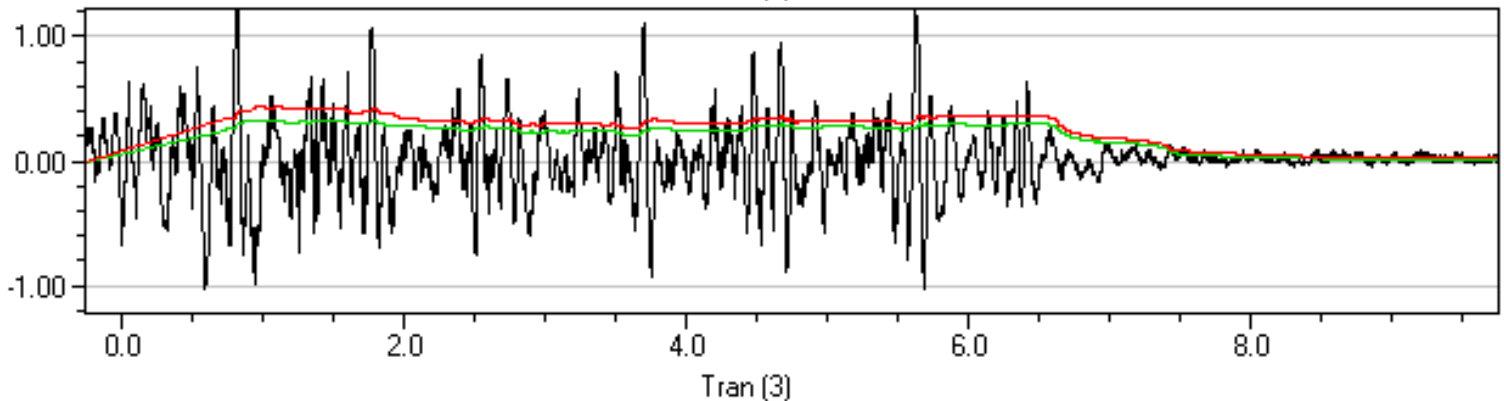
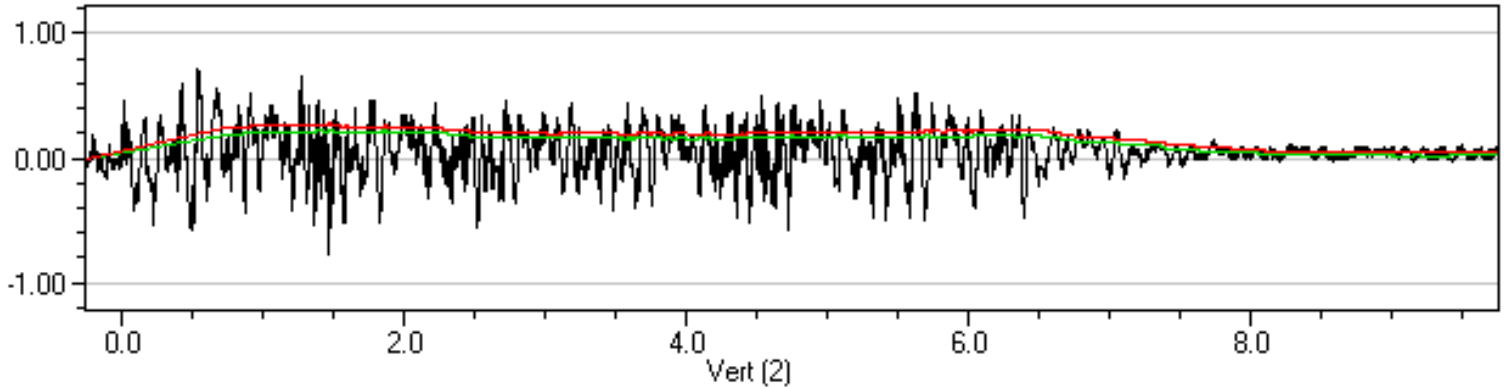
Record Time: 9.75 sec

Sample Rate: 1024 sps

Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.413	1.22	0.762	mm/s	
ZC Freq	7.0	7.6	16	Hz	
Time of Peak	0.769	0.824	1.476	Sec	
Peak Acceleration	0.00829	0.0149	0.0149	g	
Peak Displacement	0.00941	0.0231	0.0152	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,33	0,22		0,41
RMS (1s)	0,14	0,44	0,27		0,53

Long (1)





Event Date: January 2, 2007

Event Time: 18:45:37

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHEX.G10

Trigger: Vert

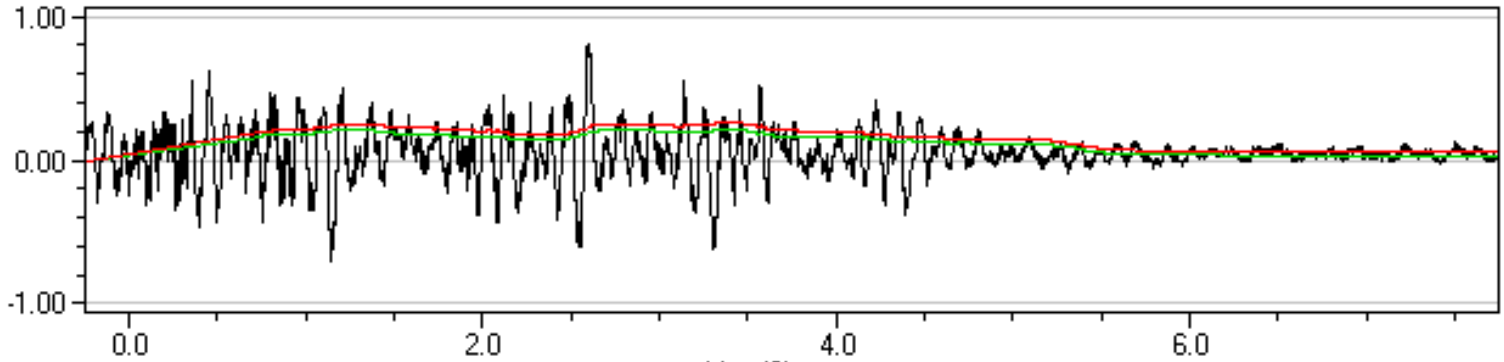
Record Time: 7.75 sec

Sample Rate: 1024 sps

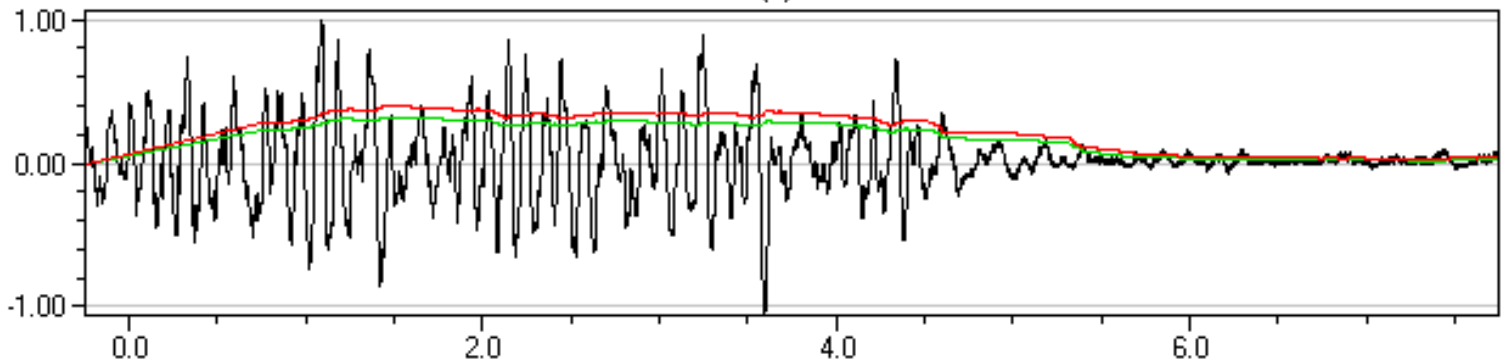
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.333	1.06	0.810	mm/s	
ZC Freq	18	9.1	8.4	Hz	
Time of Peak	0.573	3.592	2.593	Sec	
Peak Acceleration	0.00663	0.0116	0.0116	g	
Peak Displacement	0.00646	0.0202	0.0145	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,32	0,21		0,39
RMS (1s)	0,13	0,39	0,26		0,48

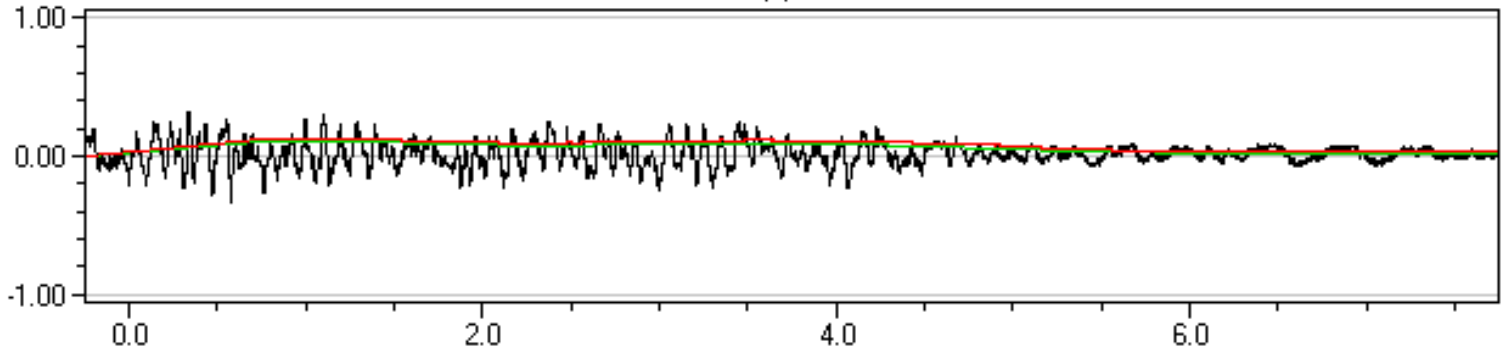
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 21:49:34

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHF5.YM0

Trigger: Vert

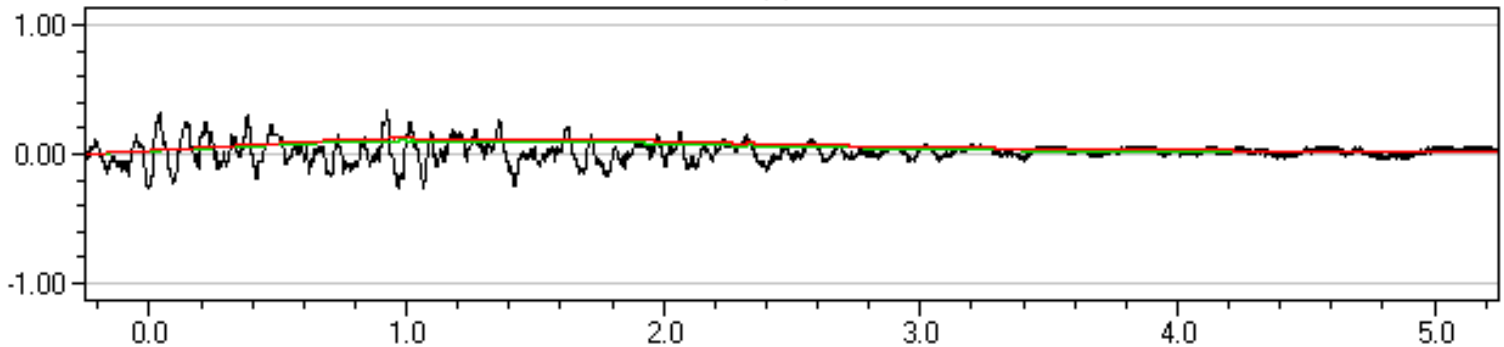
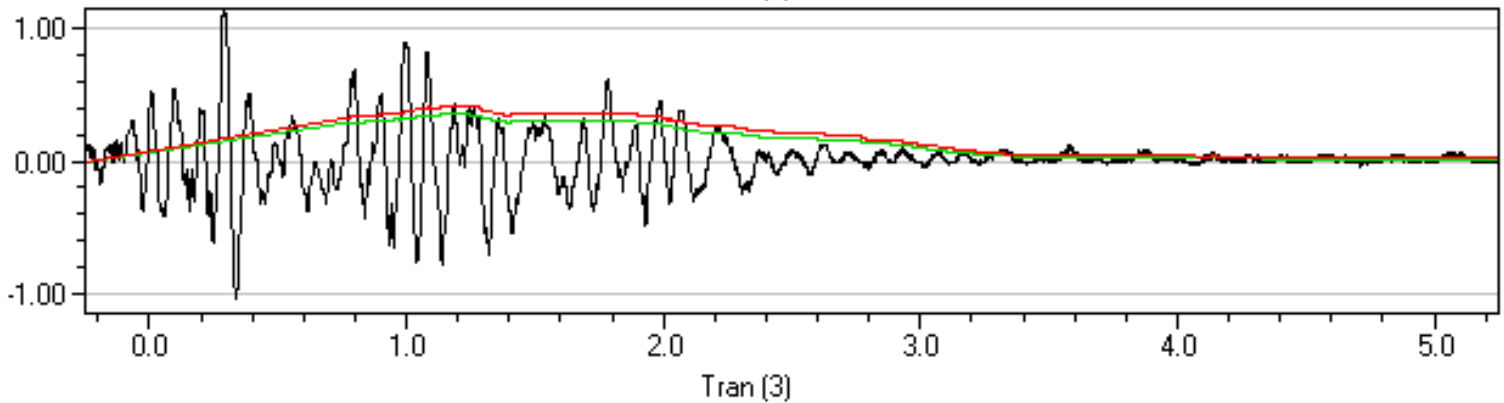
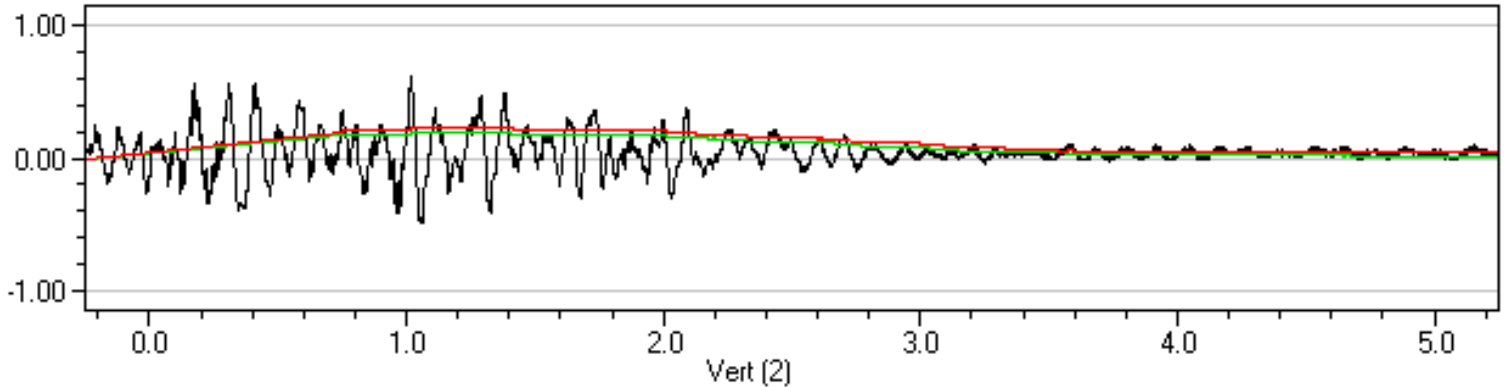
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.333	1.14	0.603	mm/s	
ZC Freq	12	11	11	Hz	
Time of Peak	0.923	0.288	1.017	Sec	
Peak Acceleration	0.00663	0.00994	0.00829	g	
Peak Displacement	0.00505	0.0175	0.00984	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,35	0,20		0,41
RMS (1s)	0,13	0,41	0,24		0,49

Long (1)





Event Date: January 2, 2007

Event Time: 23:56:02

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHFB.TE0

Trigger: Vert

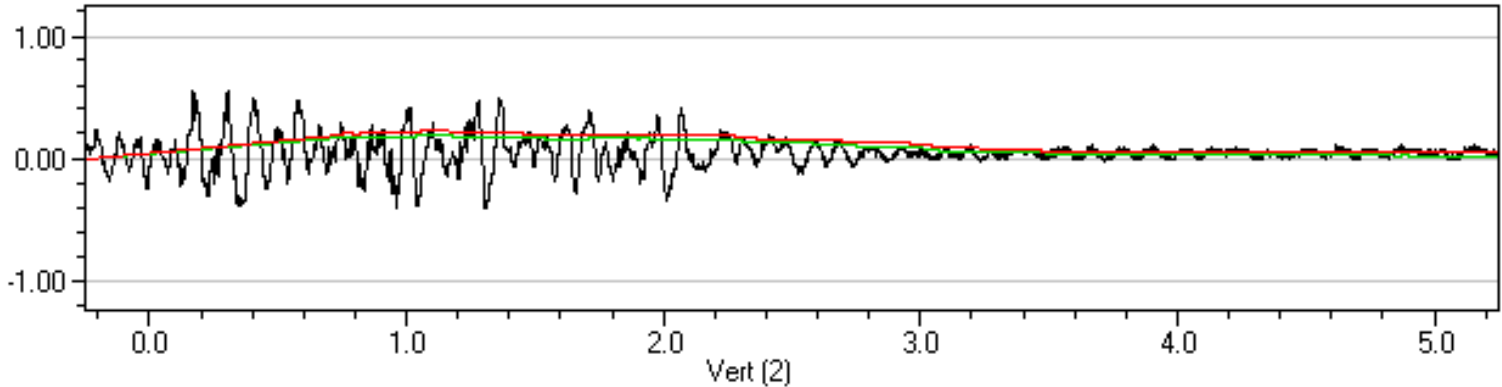
Record Time: 5.25 sec

Sample Rate: 1024 sps

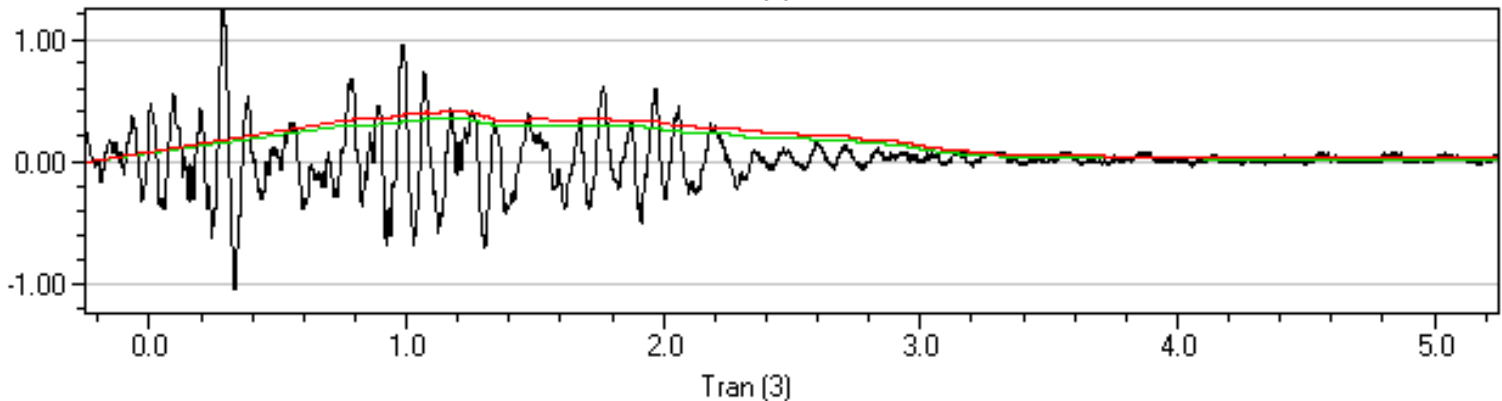
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.349	1.25	0.556	mm/s	
ZC Freq	12	11	8.5	Hz	
Time of Peak	0.913	0.284	0.170	Sec	
Peak Acceleration	0.00663	0.0116	0.00829	g	
Peak Displacement	0.00630	0.0185	0.00933	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,35	0,19		0,41
RMS (1s)	0,13	0,41	0,22		0,47

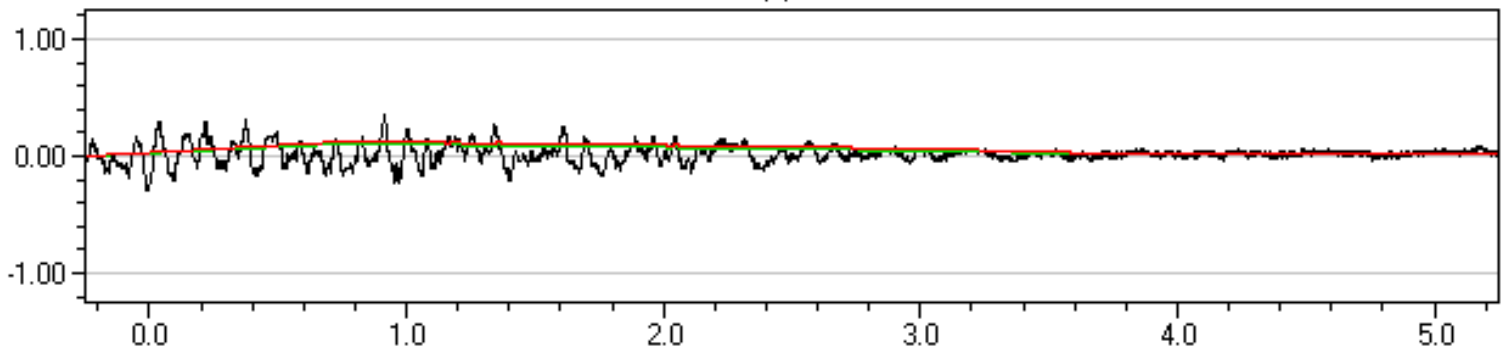
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 07:13:26

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHFV.2E0

Trigger: Vert

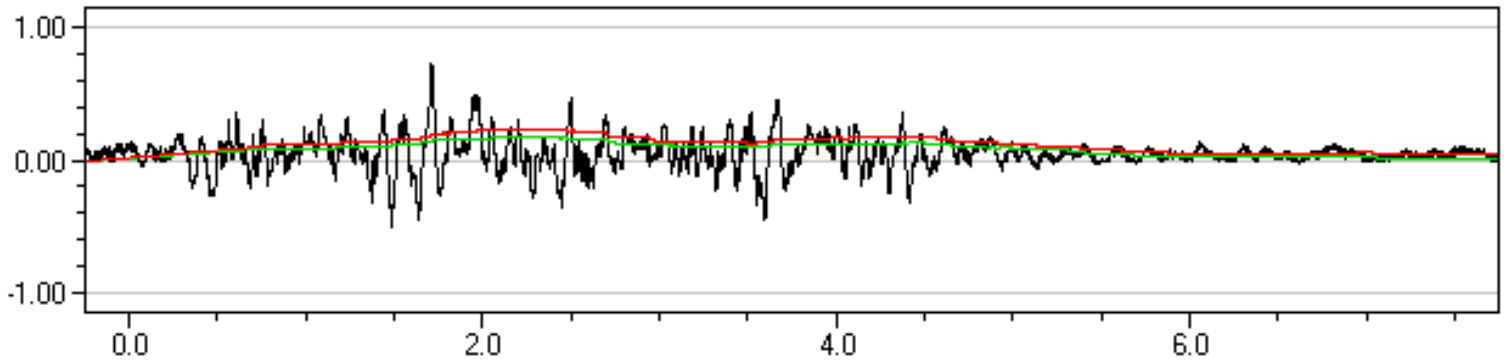
Record Time: 7.75 sec

Sample Rate: 1024 sps

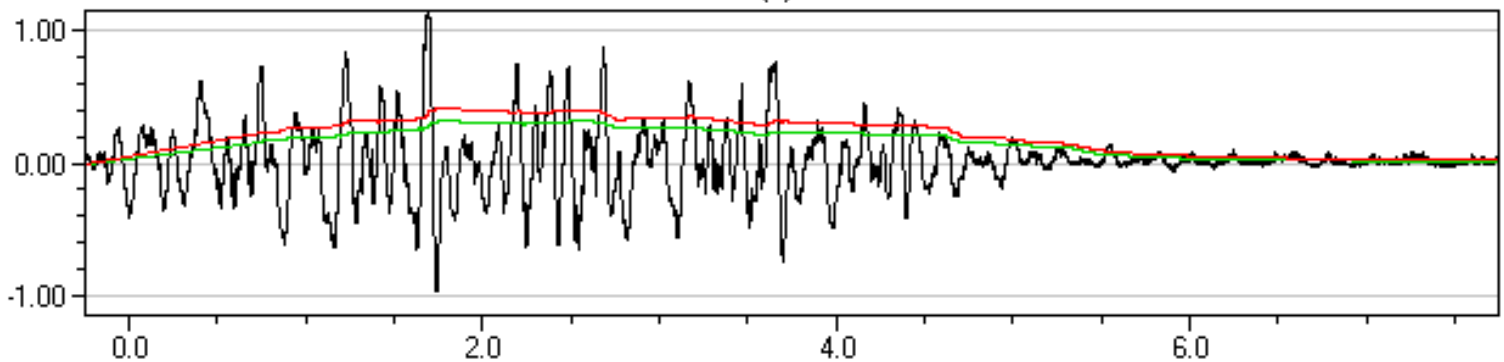
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.381	1.14	0.714	mm/s	
ZC Freq	5.4	7.1	6.2	Hz	
Time of Peak	2.583	1.692	1.706	Sec	
Peak Acceleration	0.00663	0.00994	0.00829	g	
Peak Displacement	0.0103	0.0256	0.0206	mm	rms of magnitude
RMS (1s fw 5.6)	0,09	0,32	0,17		0,37
RMS (1s)	0,13	0,41	0,23		0,47

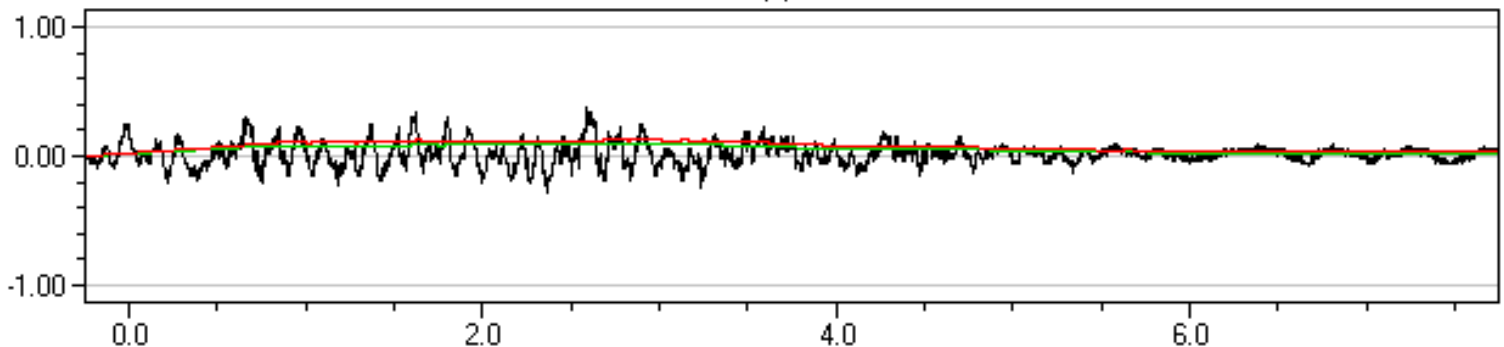
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 08:32:58

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHFZ.QY0

Trigger: Vert

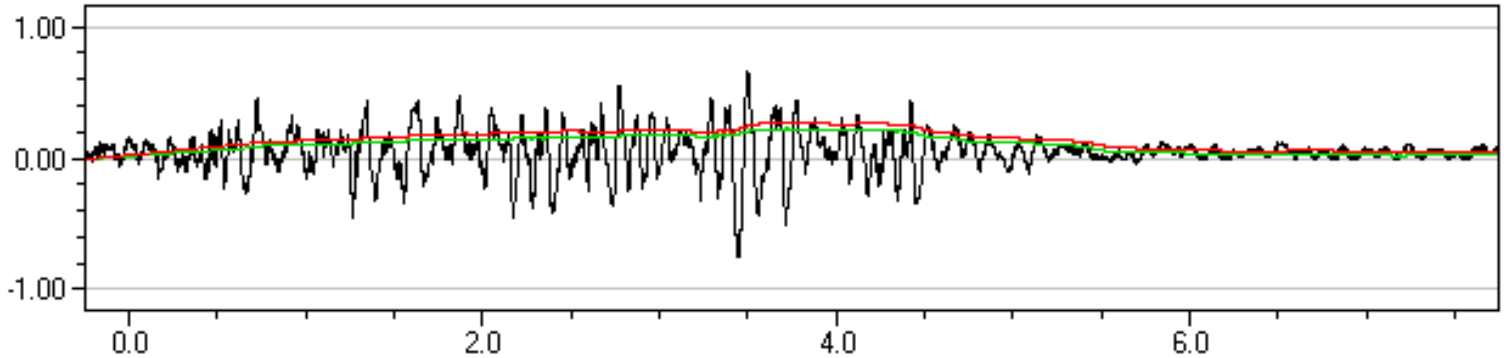
Record Time: 7.75 sec

Sample Rate: 1024 sps

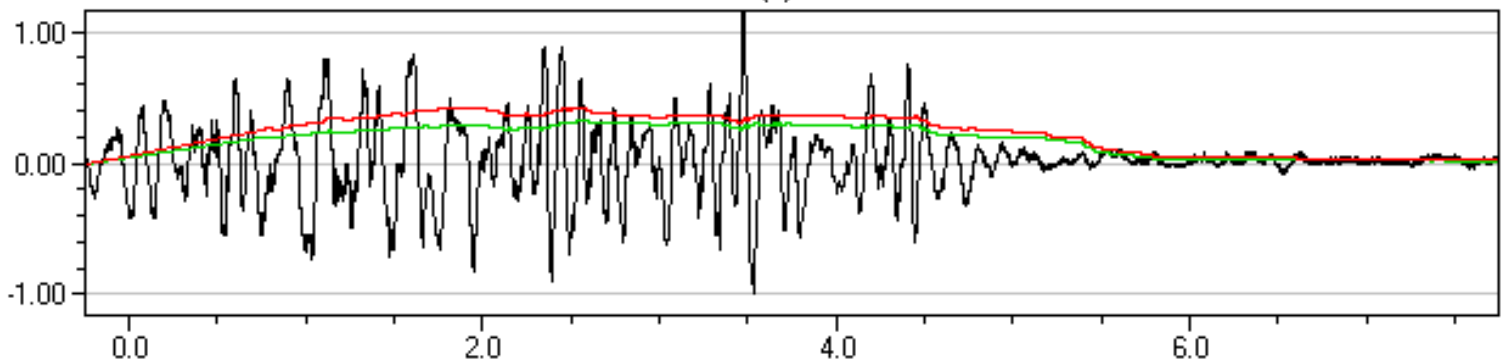
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.413	1.16	0.746	mm/s	
ZC Freq	11	8.8	8.3	Hz	
Time of Peak	2.747	3.474	3.445	Sec	
Peak Acceleration	0.00497	0.00994	0.00829	g	
Peak Displacement	0.00747	0.0272	0.0145	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,32	0,22		0,39
RMS (1s)	0,13	0,43	0,27		0,48

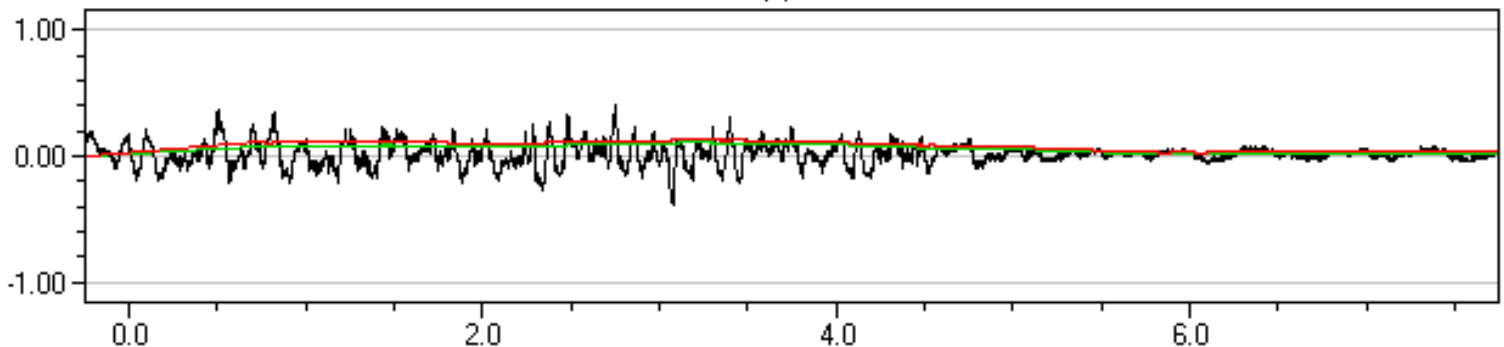
Long (1)



Vert (2)



Tran (3)





Event Date: December 31, 2006

Event Time: 11:32:58

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHAO.2Y0

Trigger: Long

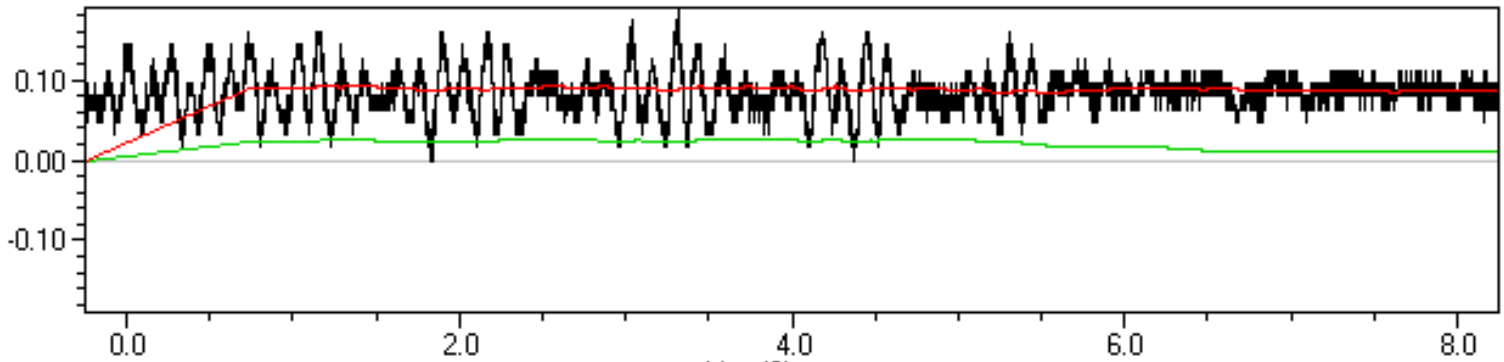
Record Time: 8.25 sec

Sample Rate: 1024 sps

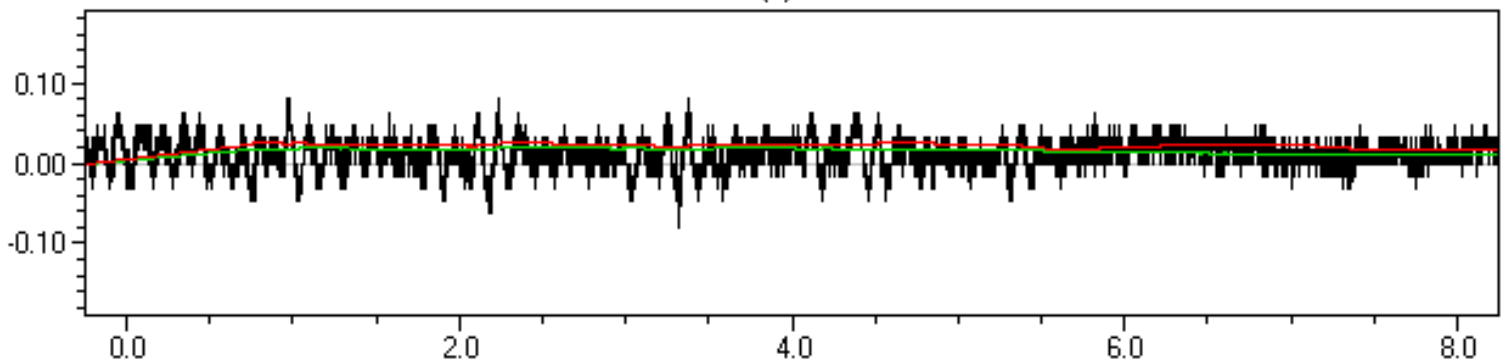
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.0794	0.0794	0.190	mm/s	
ZC Freq	12	13	4.1	Hz	
Time of Peak	0.585	0.970	3.313	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00247	0.00125	0.0359	mm	rms of magnitude
RMS (1s fw 5.6)	0,02	0,02	0,03		0,04
RMS (1s)	0,03	0,03	0,09		0,10

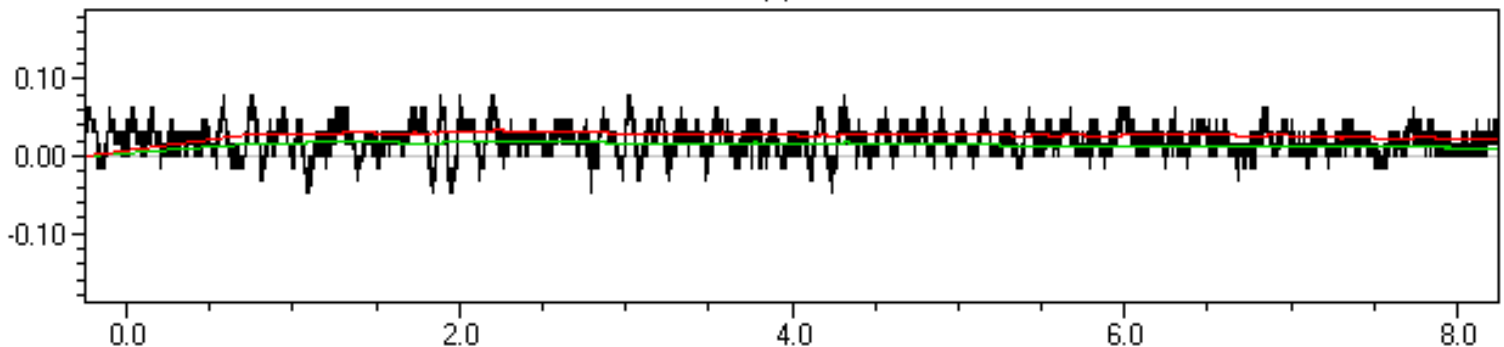
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 04:57:28

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHC0.FS0

Trigger: Long

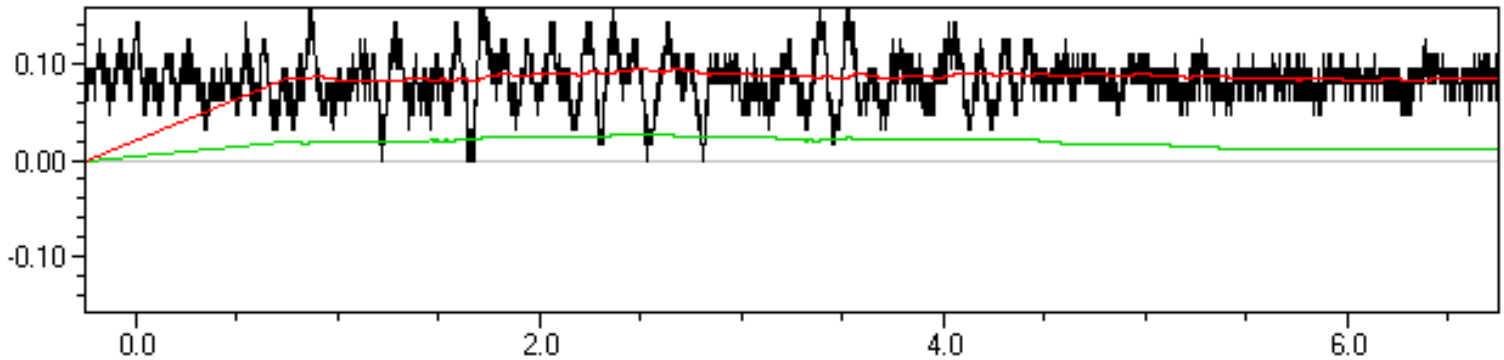
Record Time: 6.75 sec

Sample Rate: 1024 sps

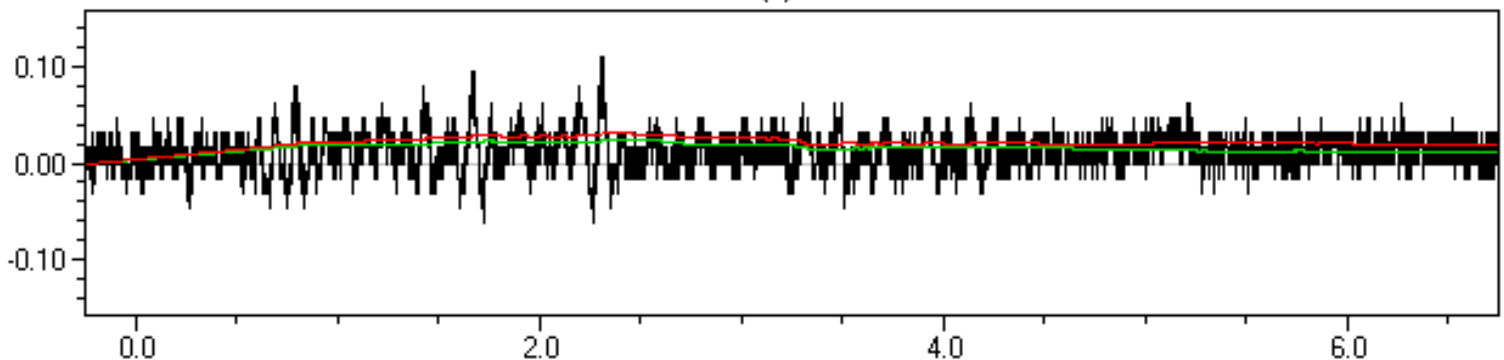
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.143	0.111	0.159	mm/s	
ZC Freq	7.6	11		Hz	
Time of Peak	1.929	2.306	0.860	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00302	0.00132	0.0605	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,02	0,03		0,05
RMS (1s)	0,05	0,03	0,10		0,11

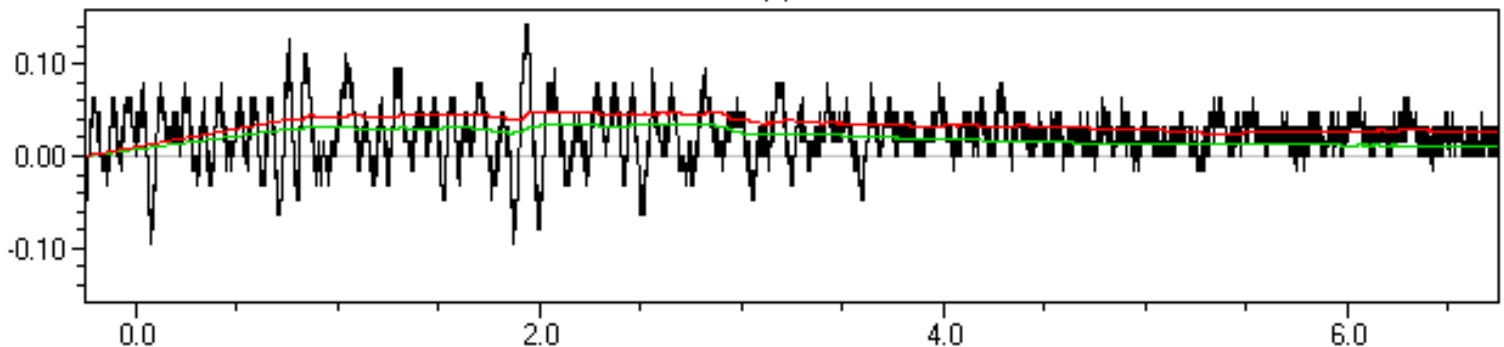
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 14:34:35

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHCR.5N0

Trigger: Long

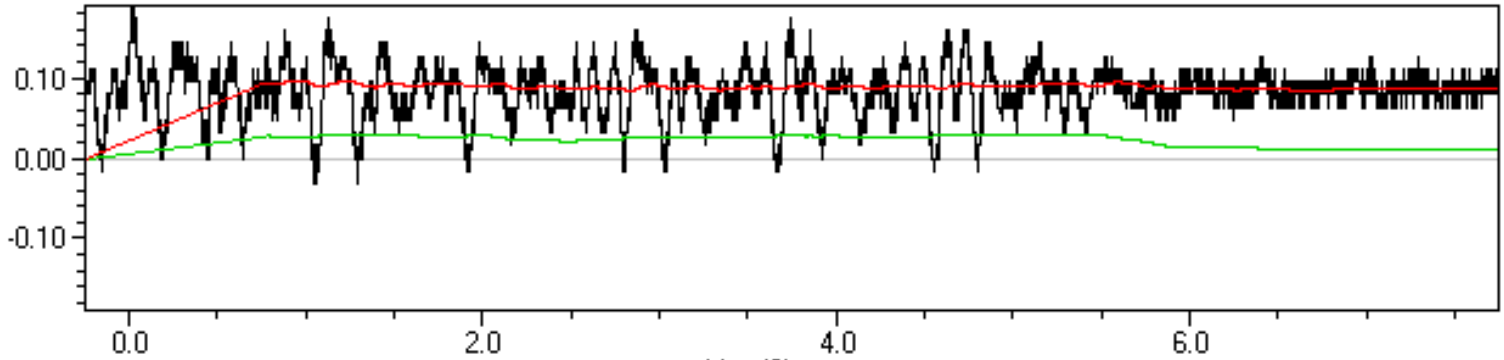
Record Time: 7.75 sec

Sample Rate: 1024 sps

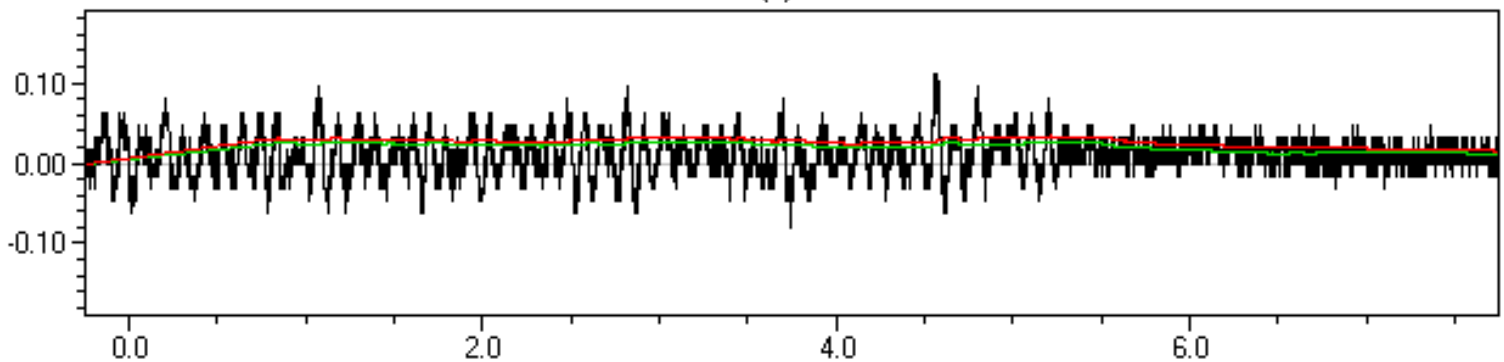
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.127	0.111	0.190	mm/s	
ZC Freq	9.5	9.8	1.6	Hz	
Time of Peak	0.385	4.558	0.017	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00450	0.00181	0.0254	mm	rms of magnitude
RMS (1s fw 5.6)	0,04	0,03	0,03		0,05
RMS (1s)	0,06	0,03	0,10		0,11

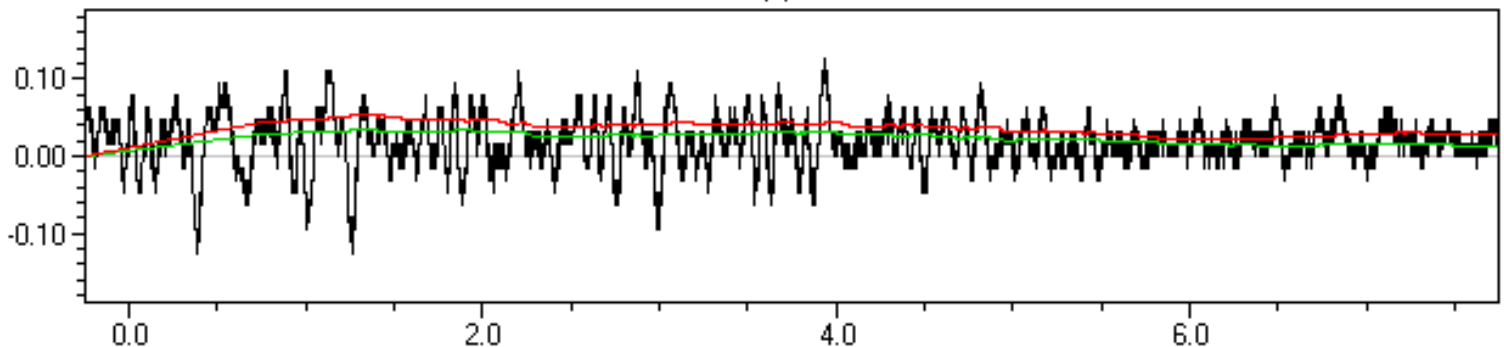
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 16:36:30

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHCW.SU0

Trigger: Long

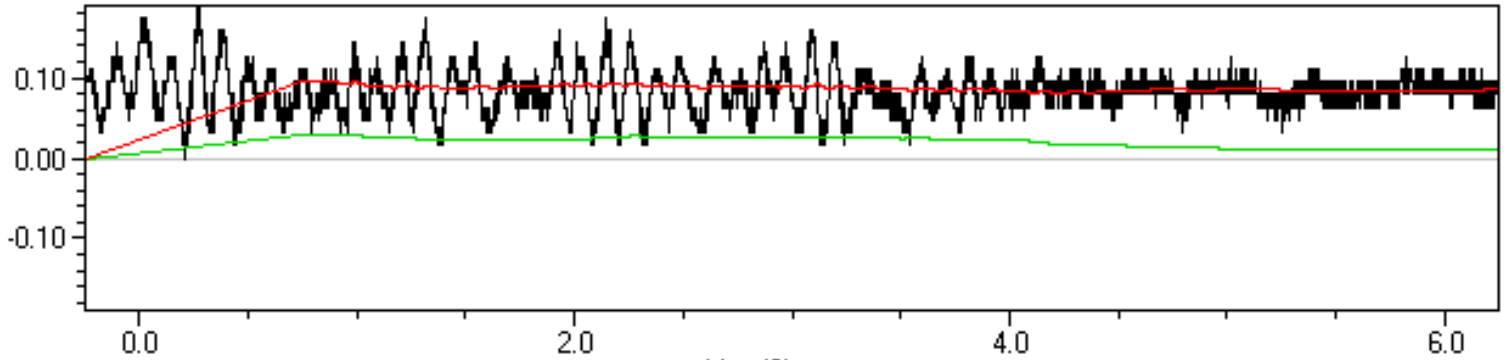
Record Time: 6.25 sec

Sample Rate: 1024 sps

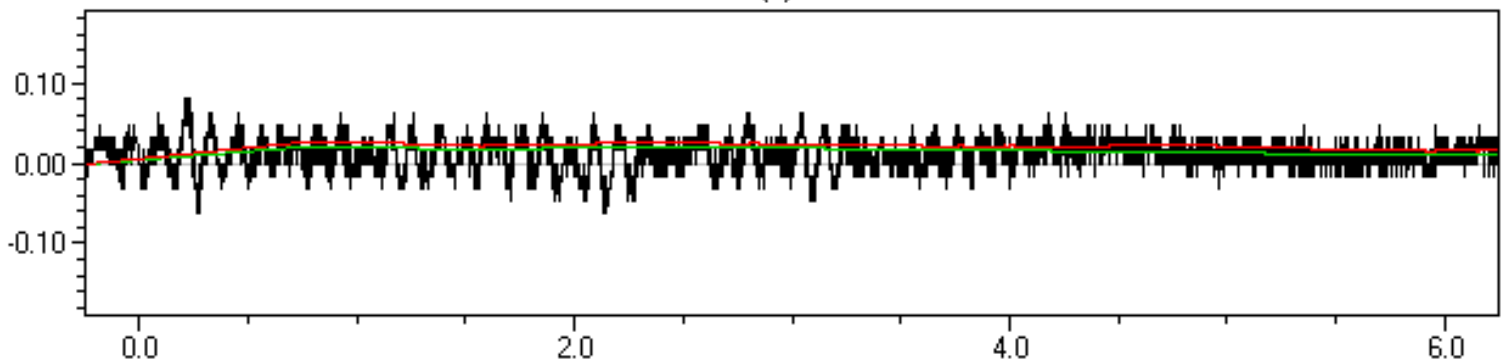
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.127	0.0794	0.190	mm/s	
ZC Freq	8.8	12	2.4	Hz	
Time of Peak	1.203	0.211	0.265	Sec	
Peak Acceleration	0.00497	0.00829	0.00497	g	
Peak Displacement	0.00219	0.00117	0.0385	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,02	0,03		0,05
RMS (1s)	0,05	0,03	0,10		0,11

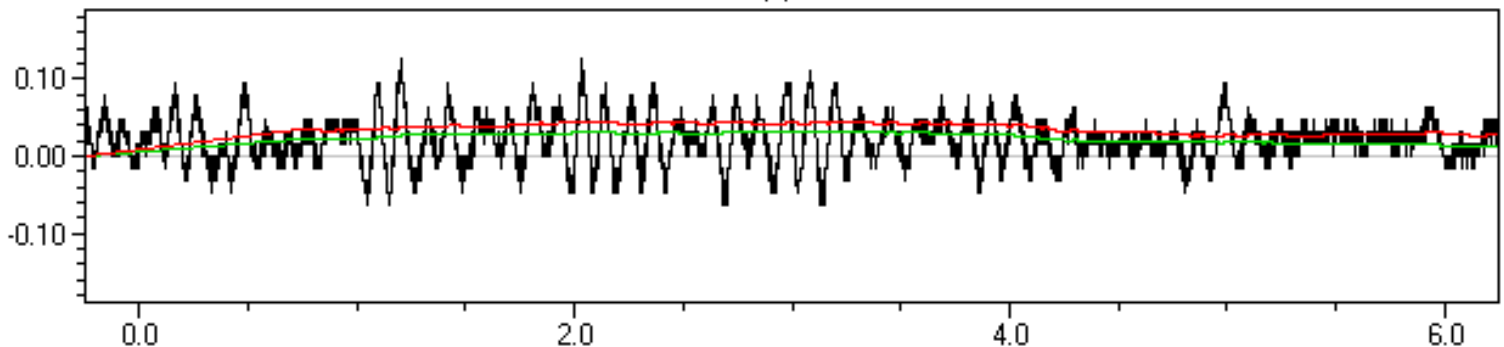
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 20:18:05

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHD7.250

Trigger: Long

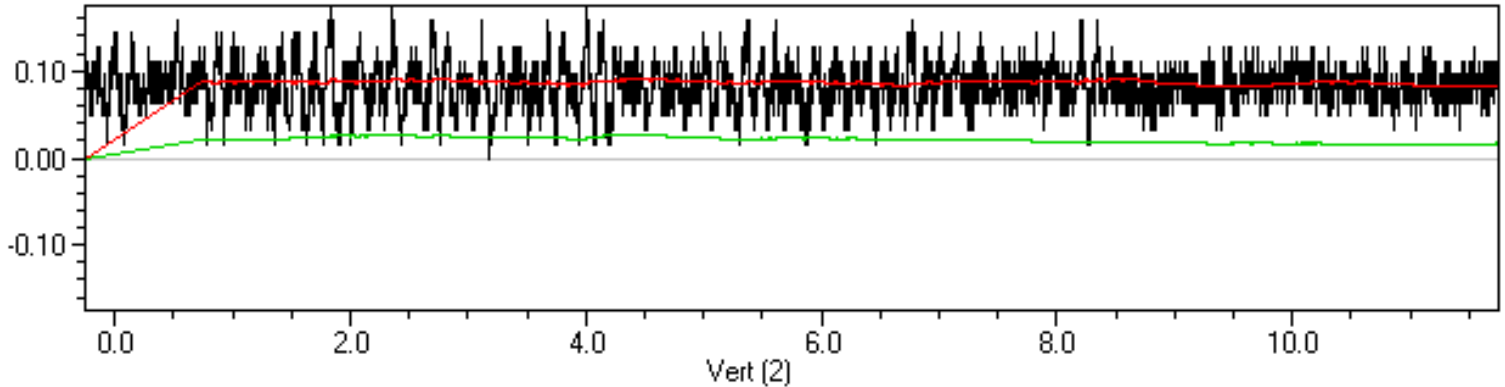
Record Time: 11.75 sec

Sample Rate: 1024 sps

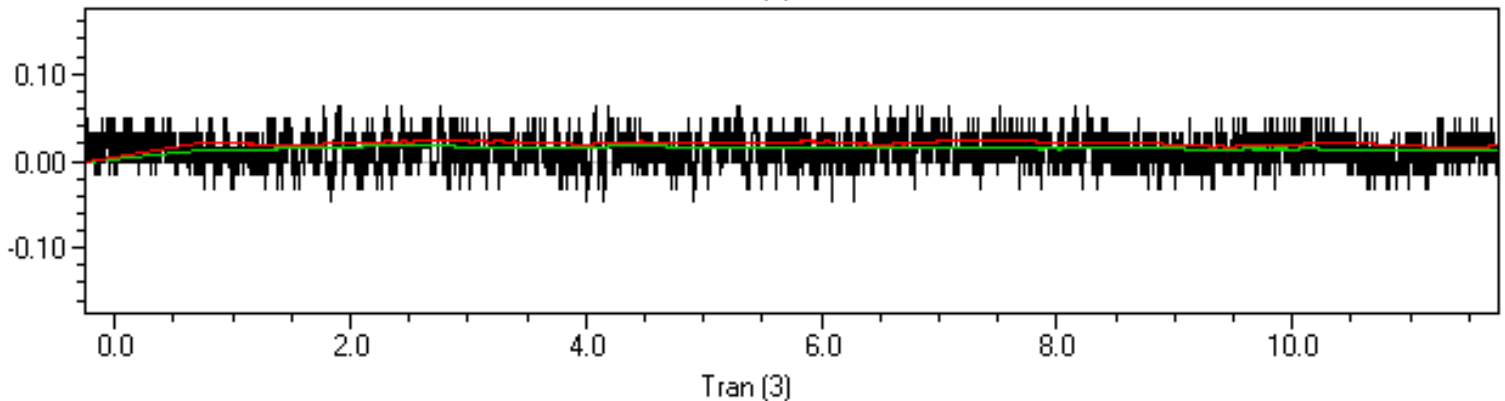
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.111	0.0635	0.175	mm/s	
ZC Freq	6.9	20	3.8	Hz	
Time of Peak	0.541	1.769	1.842	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00207	0.00060	0.0773	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,02	0,03		0,04
RMS (1s)	0,04	0,02	0,09		0,10

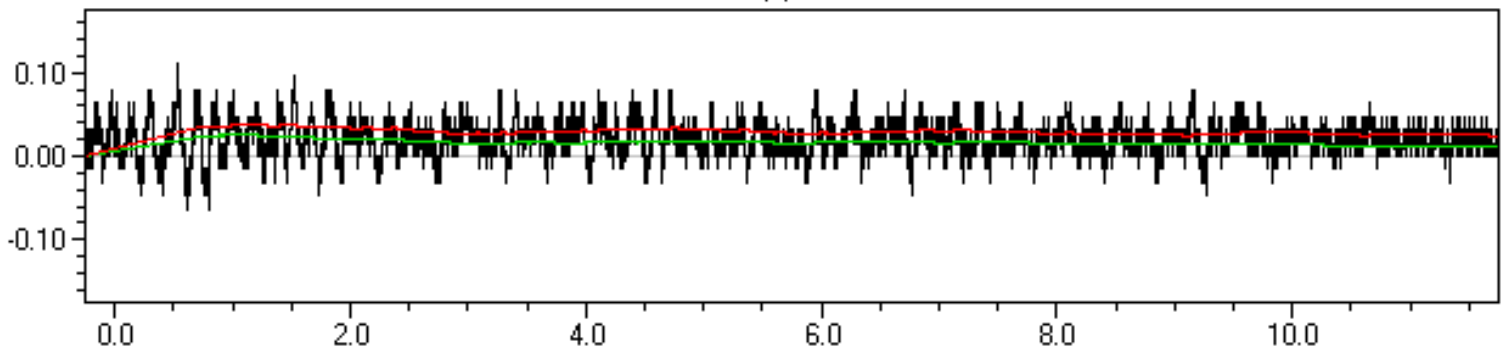
Long (1)



Vert (2)



Tran (3)





Event Date: January 1, 2007

Event Time: 23:35:13

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHDG.6P0

Trigger: Long

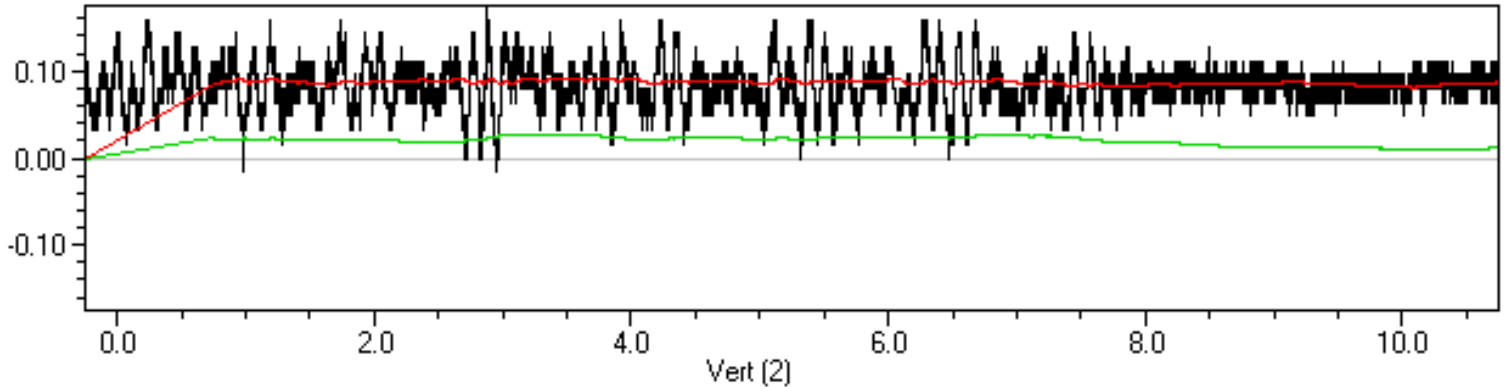
Record Time: 10.75 sec

Sample Rate: 1024 sps

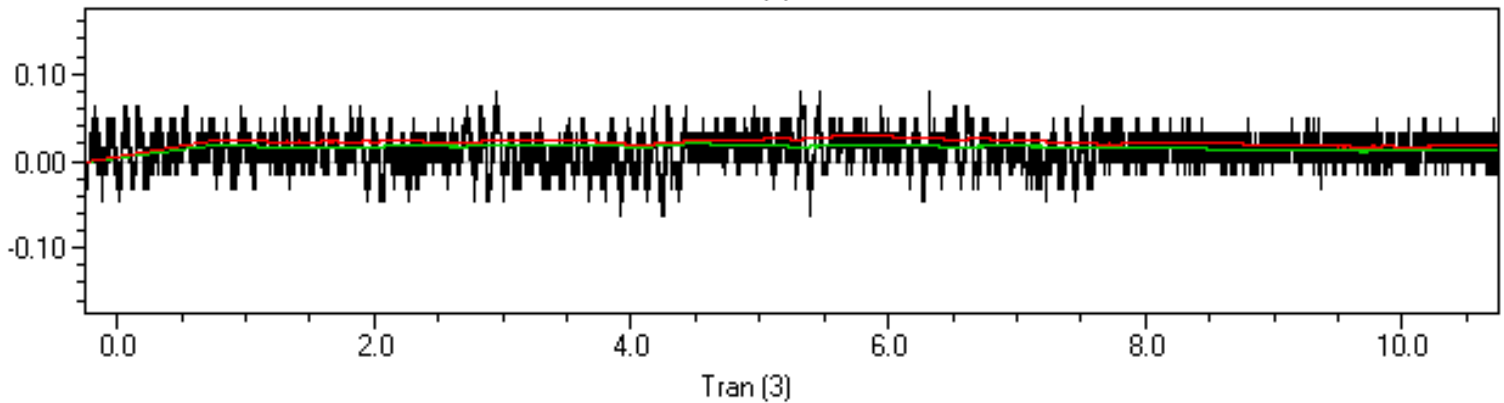
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.0952	0.0794	0.175	mm/s	
ZC Freq	7.3	10	4.7	Hz	
Time of Peak	1.784	2.948	2.881	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00263	0.00114	0.0596	mm	rms of magnitude
RMS (1s fw 5.6)	0,02	0,02	0,03		0,04
RMS (1s)	0,04	0,03	0,09		0,10

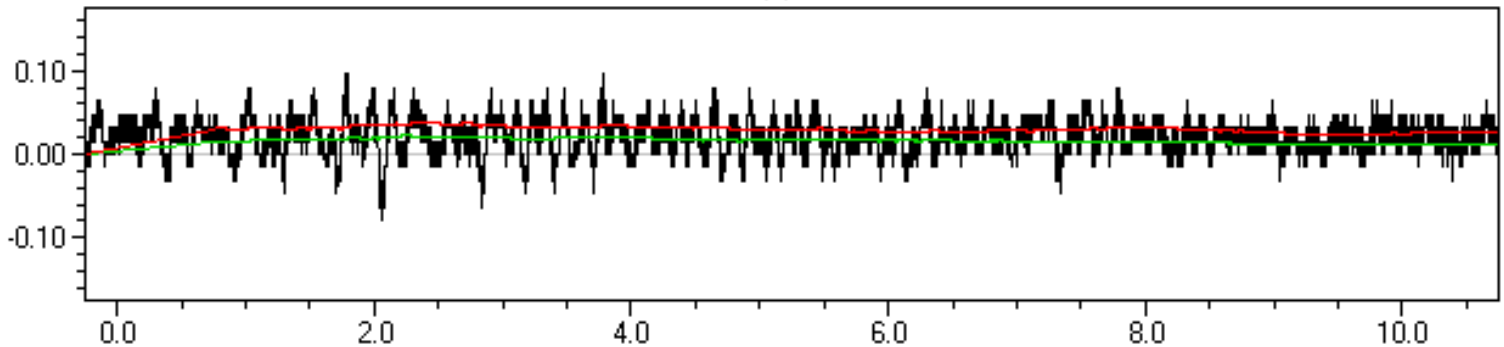
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 07:15:56

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHE1.IK0

Trigger: Long

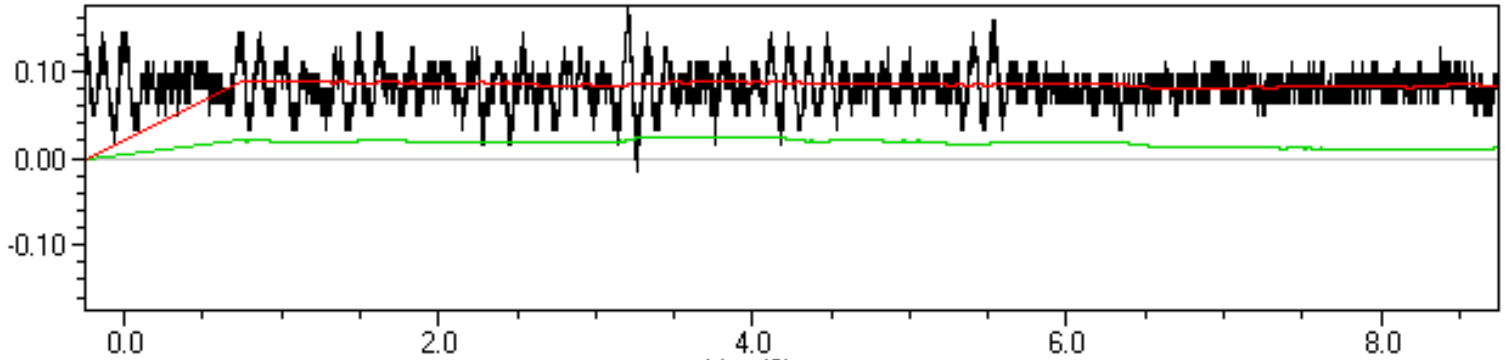
Record Time: 8.75 sec

Sample Rate: 1024 sps

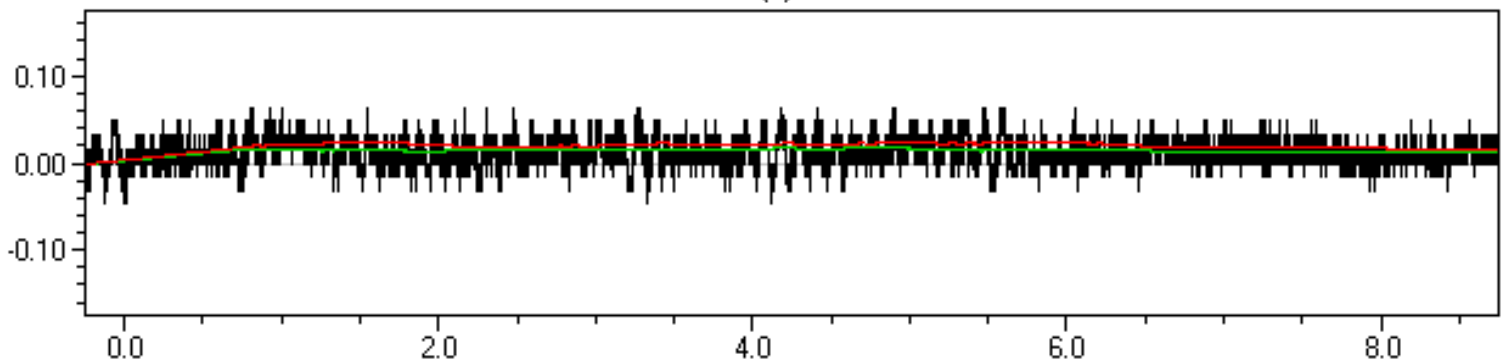
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.111	0.0635	0.175	mm/s	
ZC Freq	8.3	24	4.6	Hz	
Time of Peak	1.756	0.797	3.199	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00233	0.00067	0.0983	mm	rms of magnitude
RMS (1s fw 5.6)	0,02	0,02	0,02		0,04
RMS (1s)	0,04	0,02	0,09		0,10

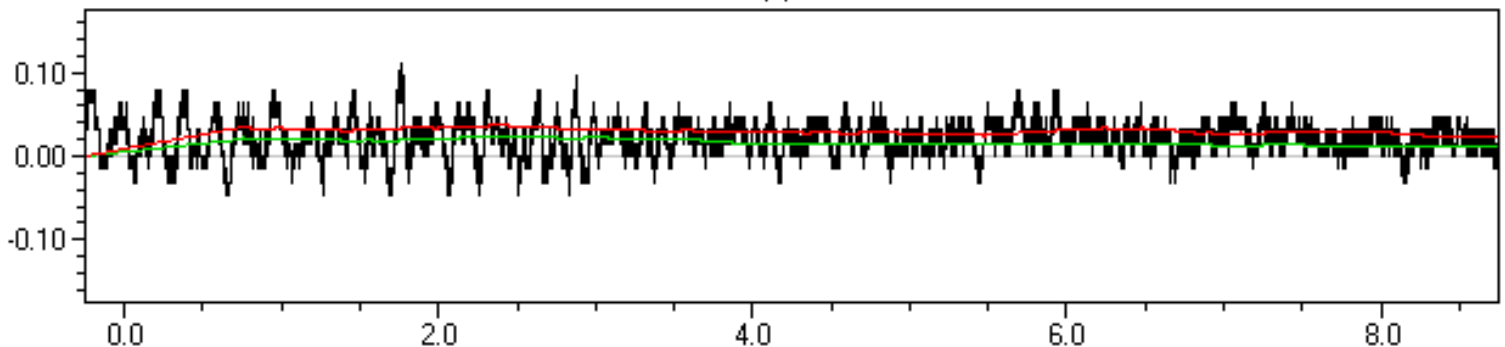
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 08:23:51

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHE4.NR0

Trigger: Long

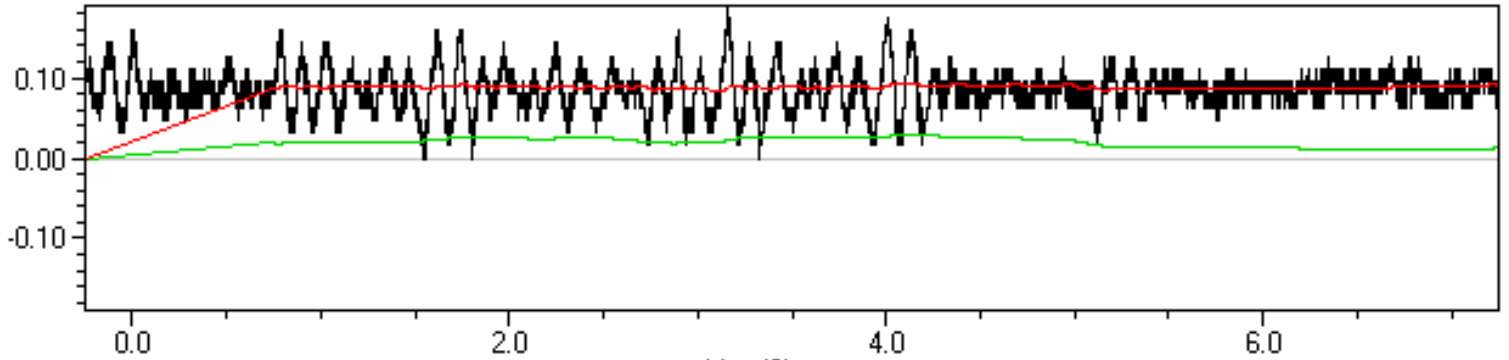
Record Time: 7.25 sec

Sample Rate: 1024 sps

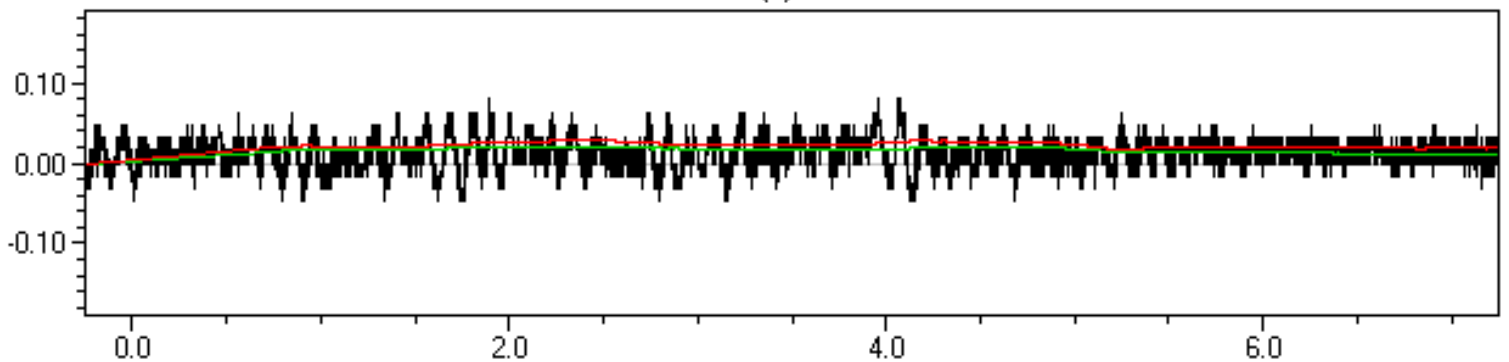
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.111	0.0794	0.190	mm/s	
ZC Freq	8.7	16	1.8	Hz	
Time of Peak	0.580	1.897	3.158	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00251	0.00122	0.0762	mm	rms of magnitude
RMS (1s fw 5.6)	0,02	0,02	0,03		0,04
RMS (1s)	0,04	0,03	0,09		0,10

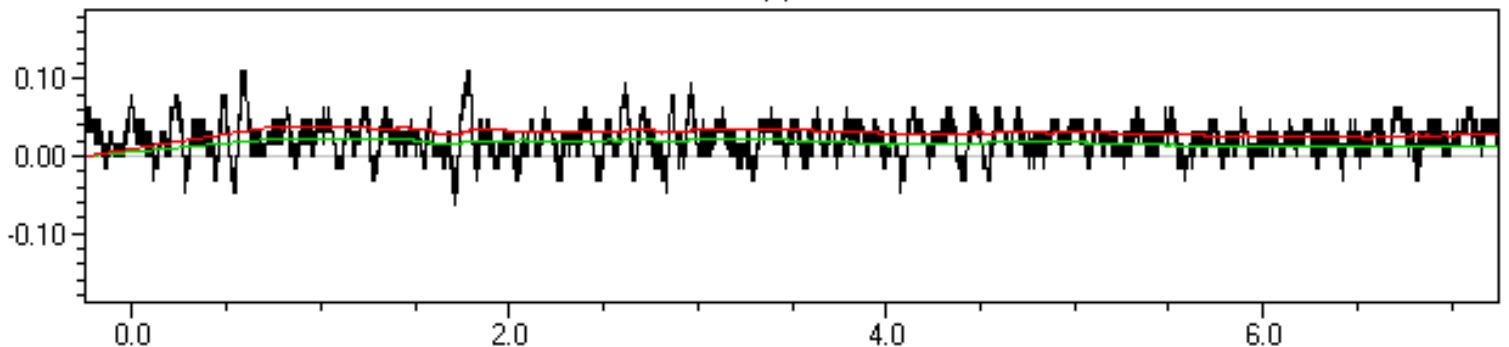
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 11:32:57

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHED.EX0

Trigger: Long

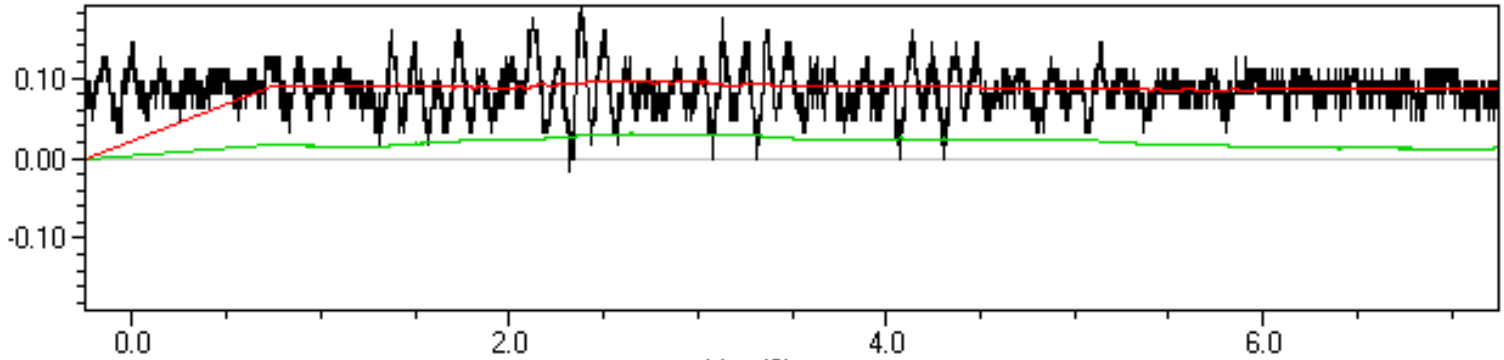
Record Time: 7.25 sec

Sample Rate: 1024 sps

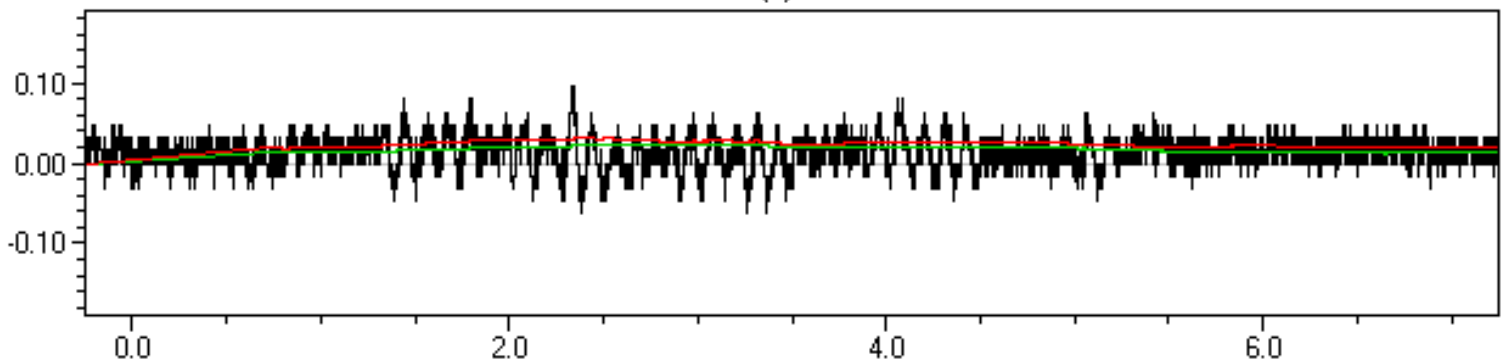
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.111	0.0952	0.190	mm/s	
ZC Freq	9.0	12	5.2	Hz	
Time of Peak	1.838	2.329	2.376	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00215	0.00133	0.0682	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,02	0,03		0,05
RMS (1s)	0,04	0,03	0,10		0,11

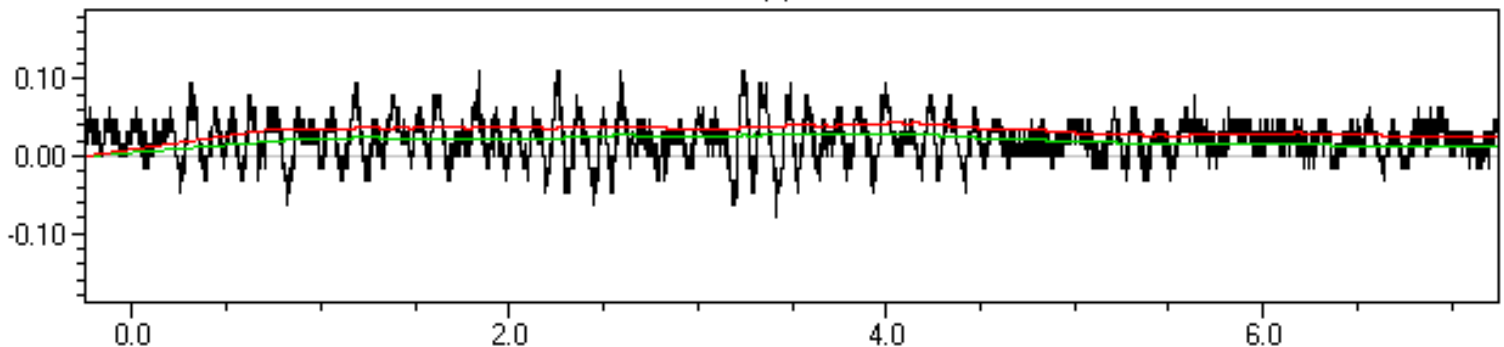
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 12:32:31

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHEG.670

Trigger: Long

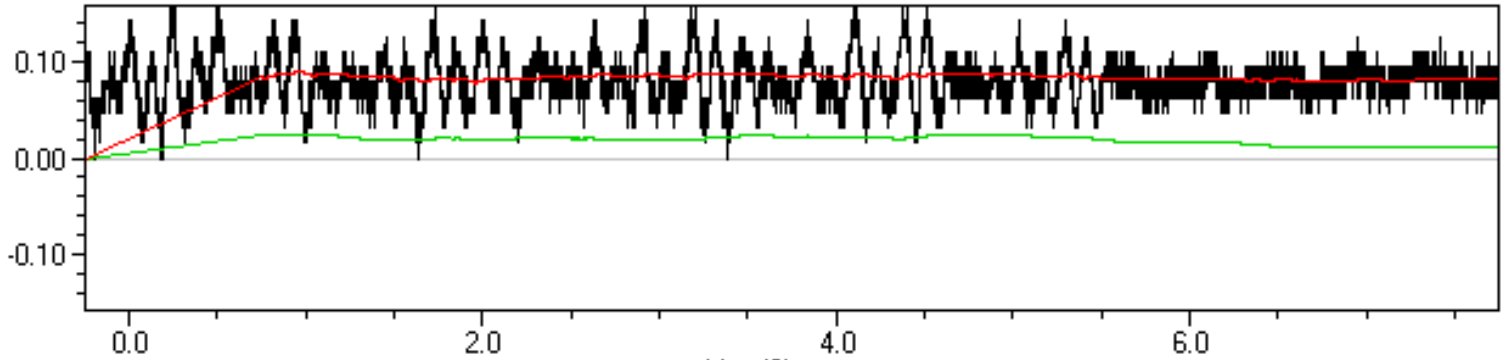
Record Time: 7.75 sec

Sample Rate: 1024 sps

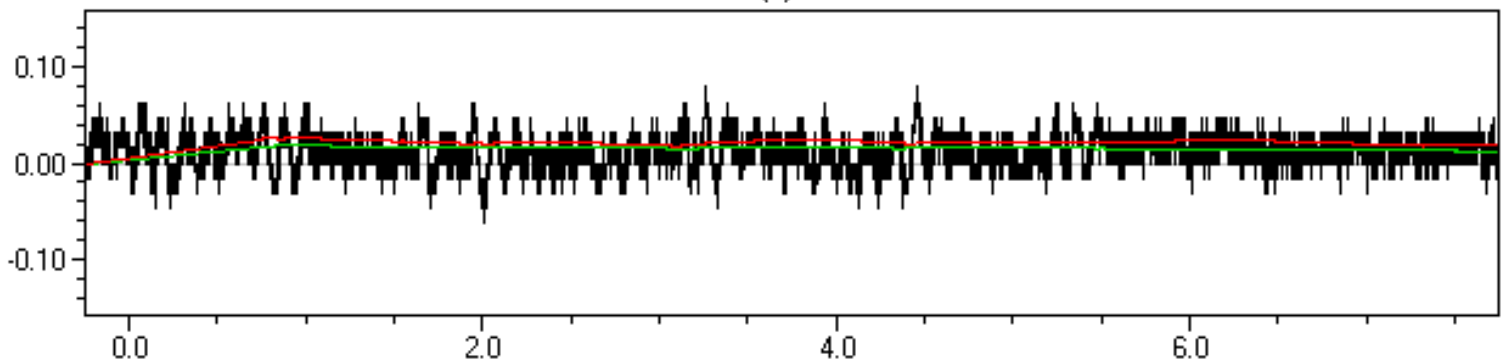
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.111	0.0794	0.159	mm/s	
ZC Freq	7.2	17	4.2	Hz	
Time of Peak	1.513	3.259	0.229	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00200	0.00105	0.0444	mm	rms of magnitude
RMS (1s fw 5.6)	0,02	0,02	0,03		0,04
RMS (1s)	0,03	0,03	0,09		0,10

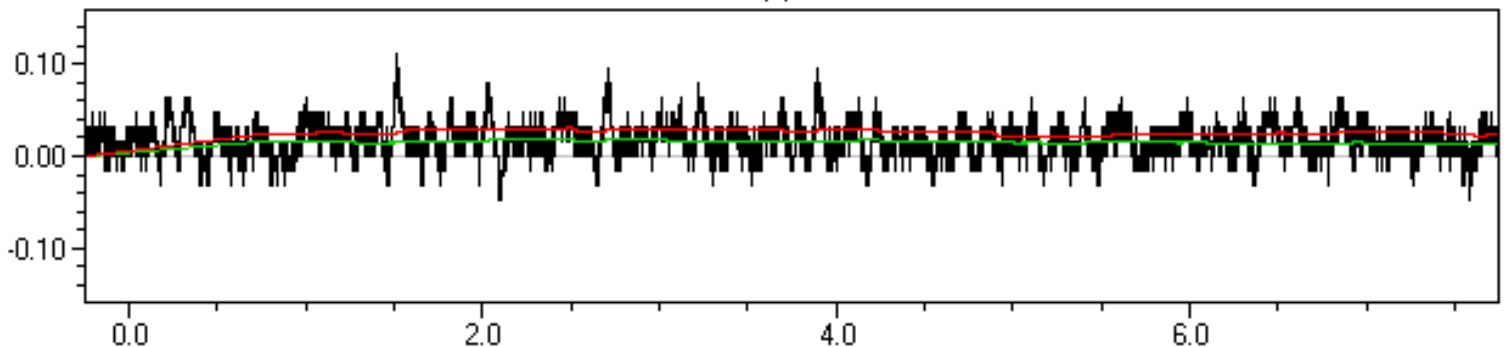
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 15:50:39

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHEP.CF0

Trigger: Long

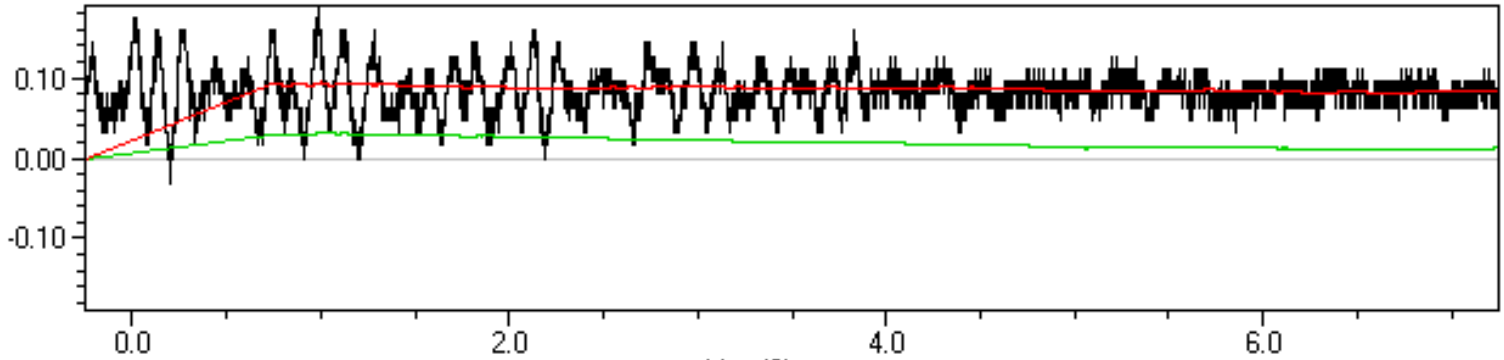
Record Time: 7.25 sec

Sample Rate: 1024 sps

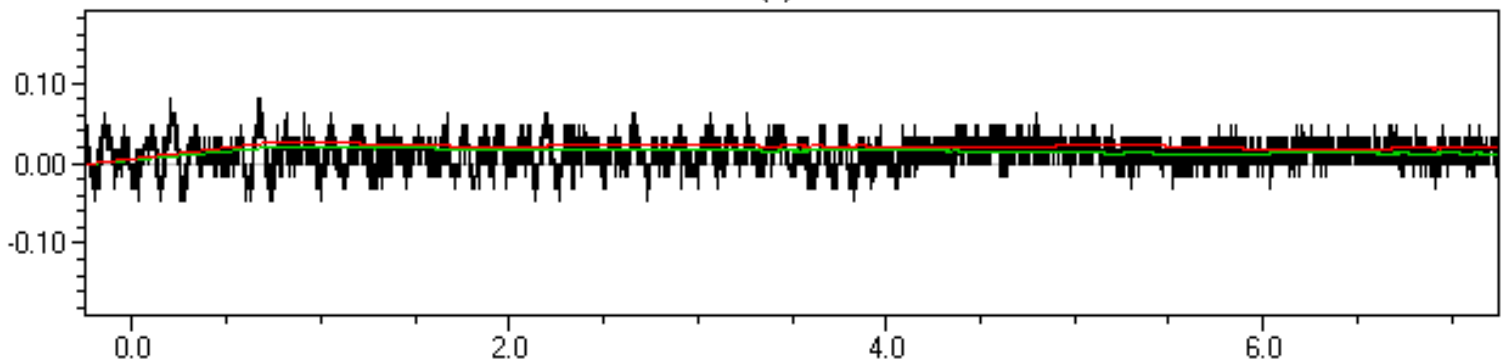
Calibration: March 6, 1998 by Instintel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.111	0.0794	0.190	mm/s	
ZC Freq	7.4	14	2.0	Hz	
Time of Peak	0.488	0.207	0.987	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00257	0.00108	0.0185	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,02	0,03		0,05
RMS (1s)	0,04	0,03	0,09		0,11

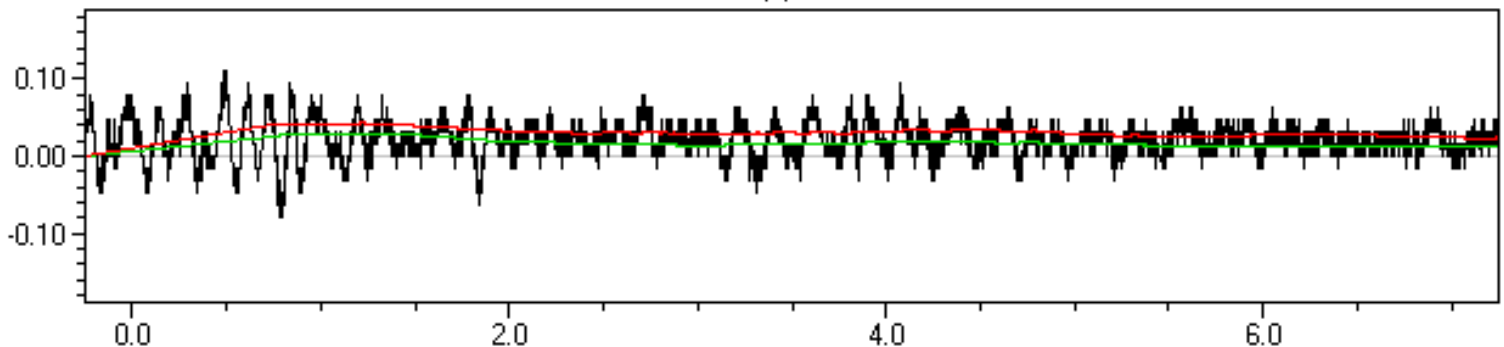
Long (1)



Vert (2)



Tran (3)





Event Date: January 2, 2007

Event Time: 22:33:12

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHF7.ZC0

Trigger: Long

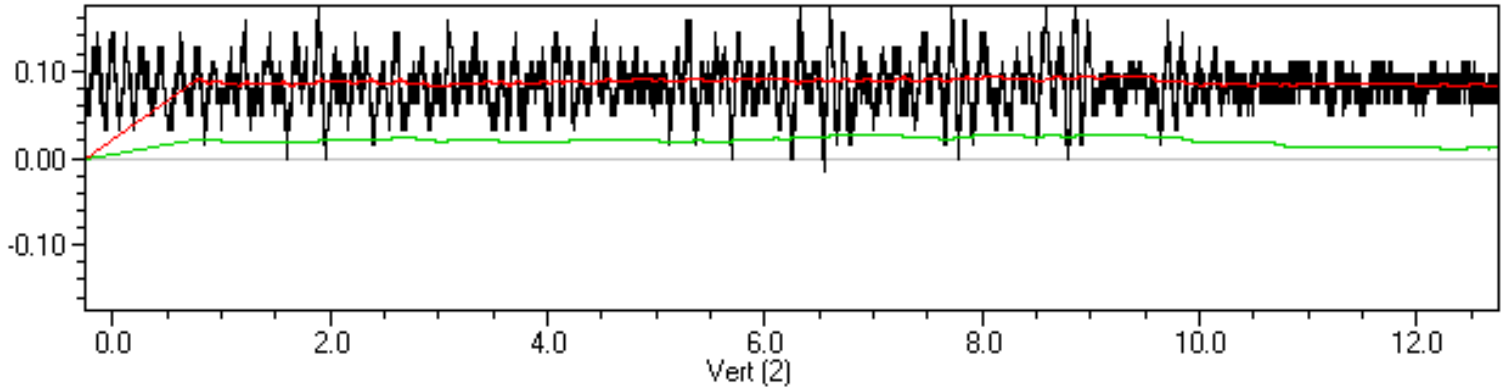
Record Time: 12.75 sec

Sample Rate: 1024 sps

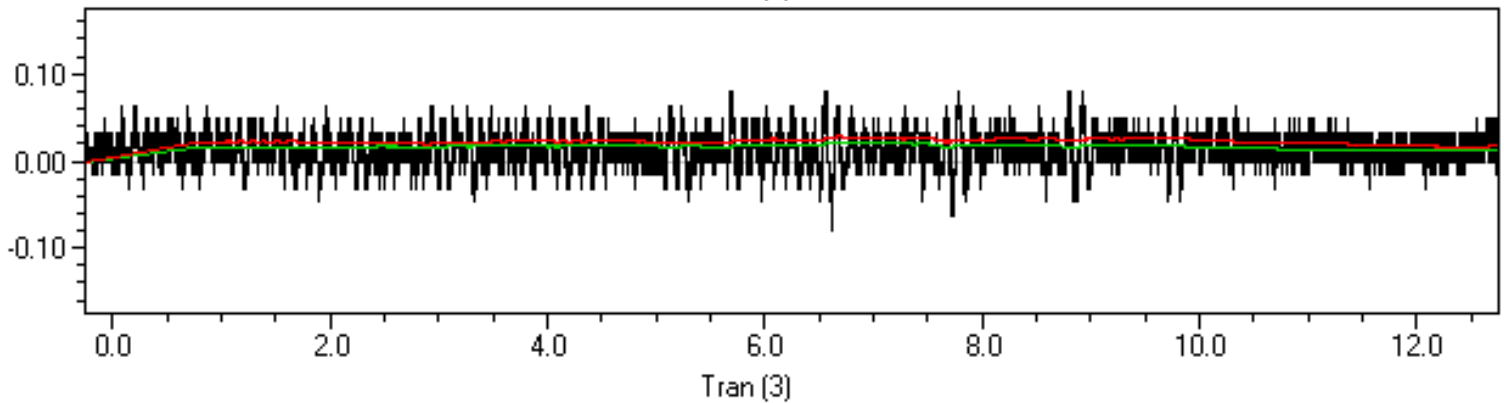
Calibration: March 6, 1998 by InstanTEL Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.127	0.0794	0.175	mm/s	
ZC Freq	6.6	11	1.5	Hz	
Time of Peak	3.151	5.681	1.892	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00315	0.00114	0.113	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,02	0,03		0,04
RMS (1s)	0,04	0,03	0,09		0,10

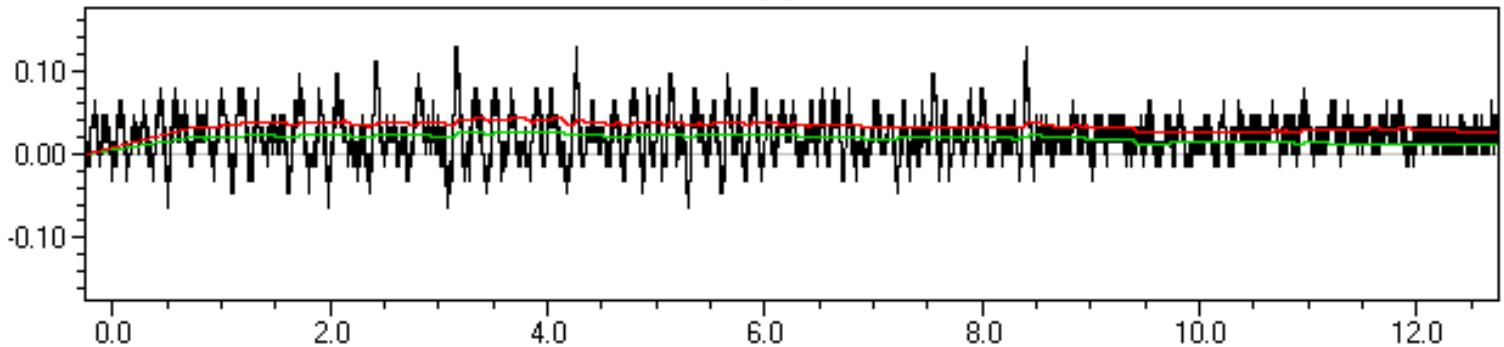
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 06:45:26

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHFU.RQ0

Trigger: Long

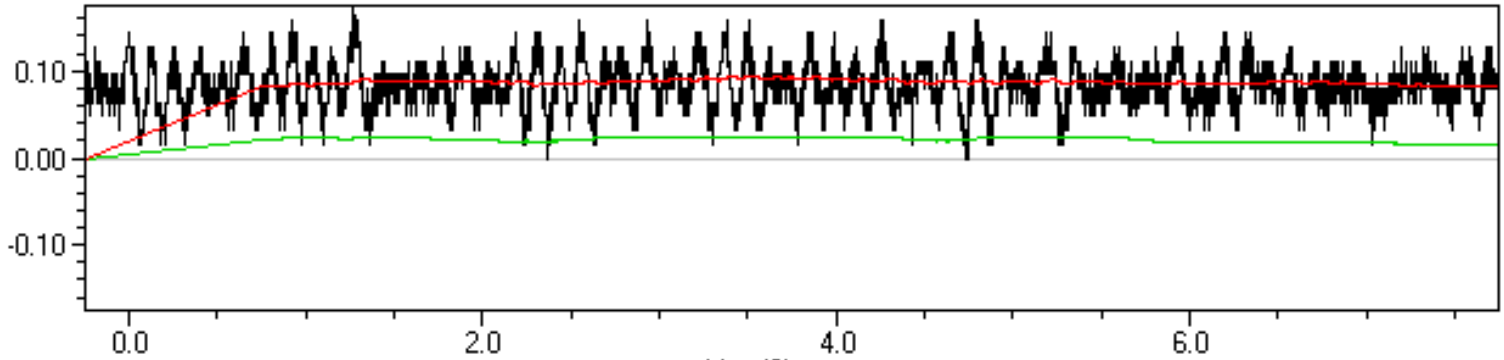
Record Time: 7.75 sec

Sample Rate: 1024 sps

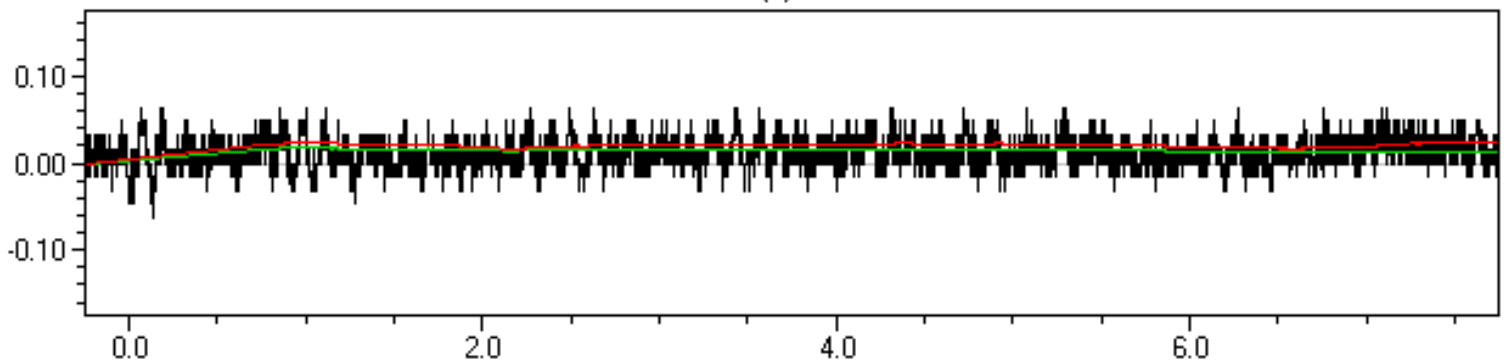
Calibration: March 6, 1998 by InstanTEL Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.111	0.0635	0.175	mm/s	
ZC Freq	6.6	13	1.9	Hz	
Time of Peak	1.233	0.060	1.271	Sec	
Peak Acceleration	0.00497	0.00497	0.00497	g	
Peak Displacement	0.00315	0.00078	0.0720	mm	rms of magnitude
RMS (1s fw 5.6)	0,02	0,02	0,02		0,04
RMS (1s)	0,04	0,02	0,09		0,10

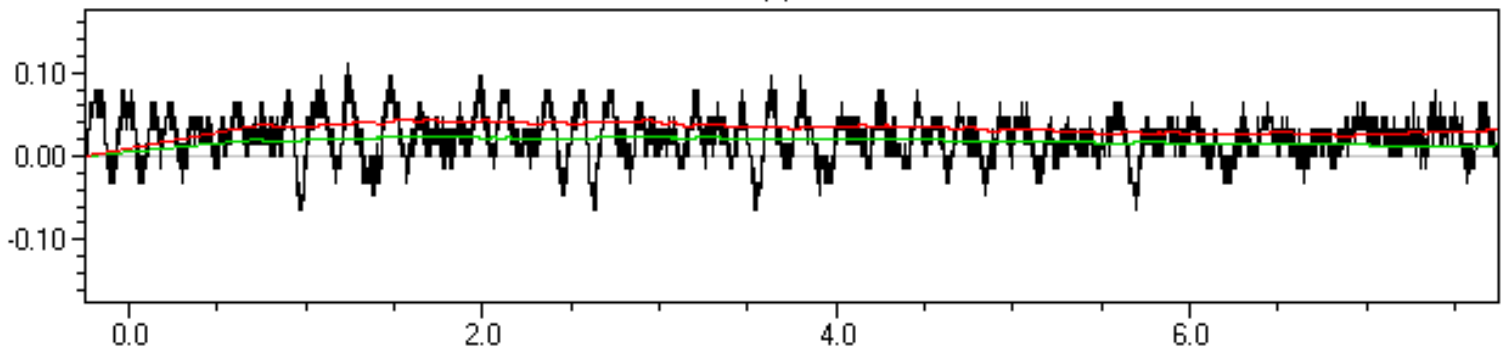
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 07:13:27

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHFW.2F0

Trigger: Long

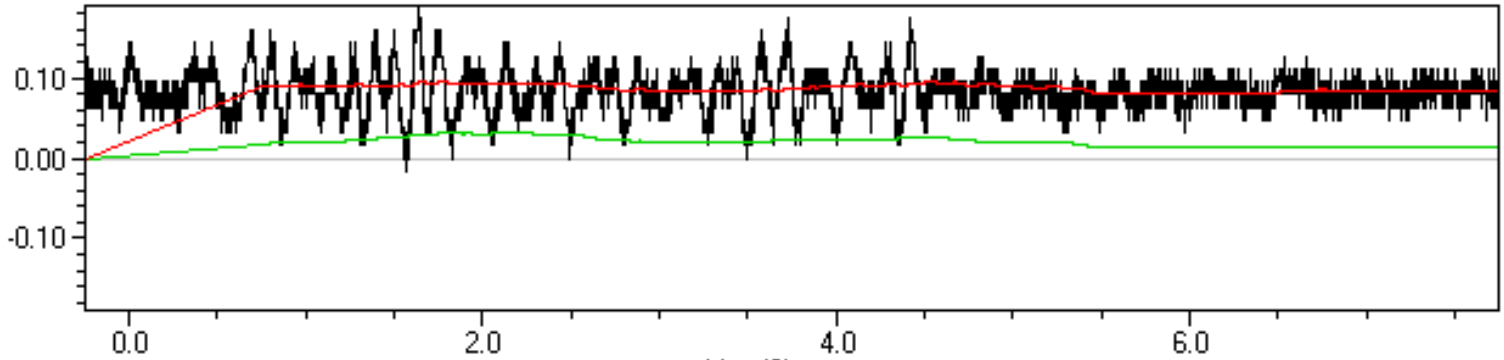
Record Time: 7.75 sec

Sample Rate: 1024 sps

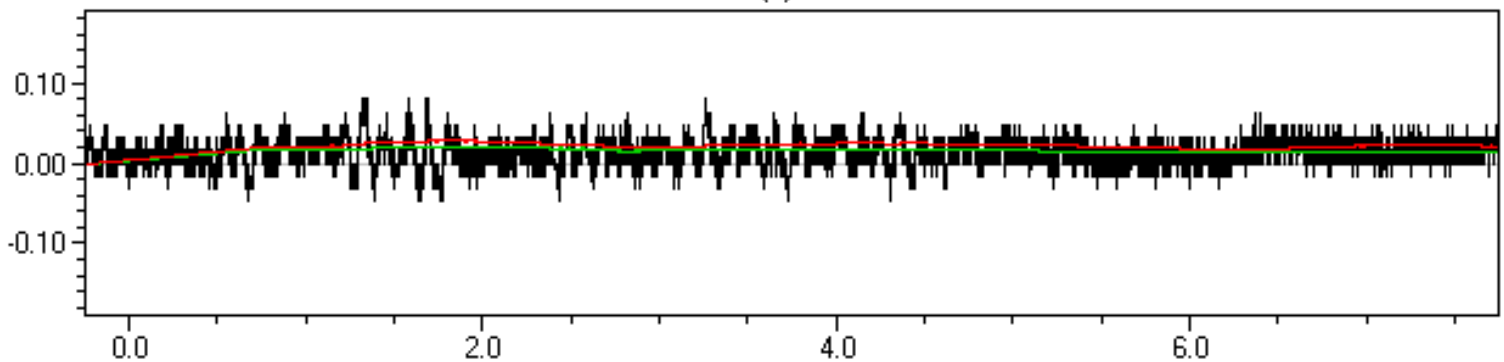
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.127	0.0794	0.190	mm/s	
ZC Freq	8.1	12	2.2	Hz	
Time of Peak	2.411	1.313	1.636	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00262	0.00117	0.0478	mm	rms of magnitude
RMS (1s fw 5.6)	0,03	0,02	0,03		0,05
RMS (1s)	0,04	0,03	0,10		0,11

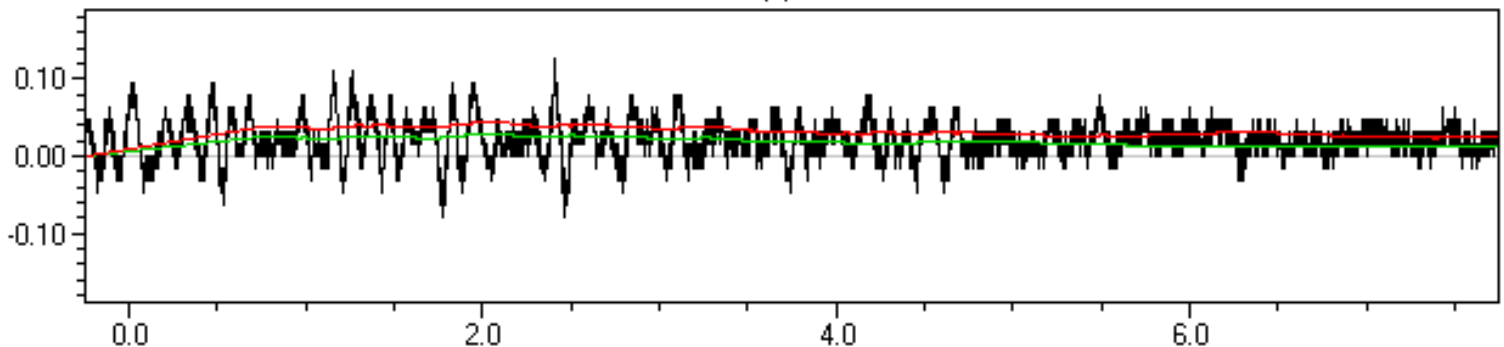
Long (1)



Vert (2)



Tran (3)





Event Date: January 3, 2007

Event Time: 09:33:08

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHG2.J80

Trigger: Long

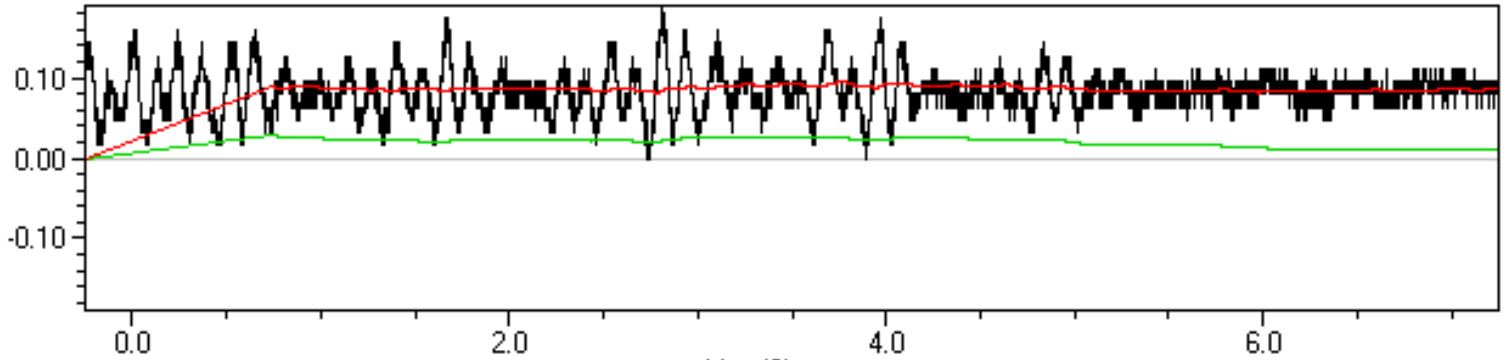
Record Time: 7.25 sec

Sample Rate: 1024 sps

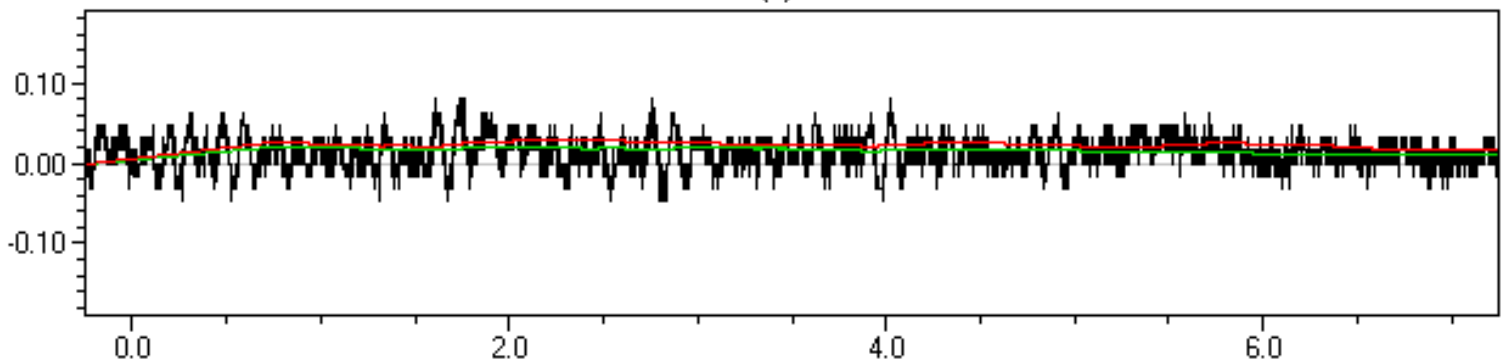
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.0952	0.0794	0.190	mm/s	
ZC Freq	8.0	12	4.7	Hz	
Time of Peak	1.220	1.613	2.806	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00283	0.00156	0.0345	mm	rms of magnitude
RMS (1s fw 5.6)	0,02	0,02	0,03		0,04
RMS (1s)	0,04	0,03	0,10		0,10

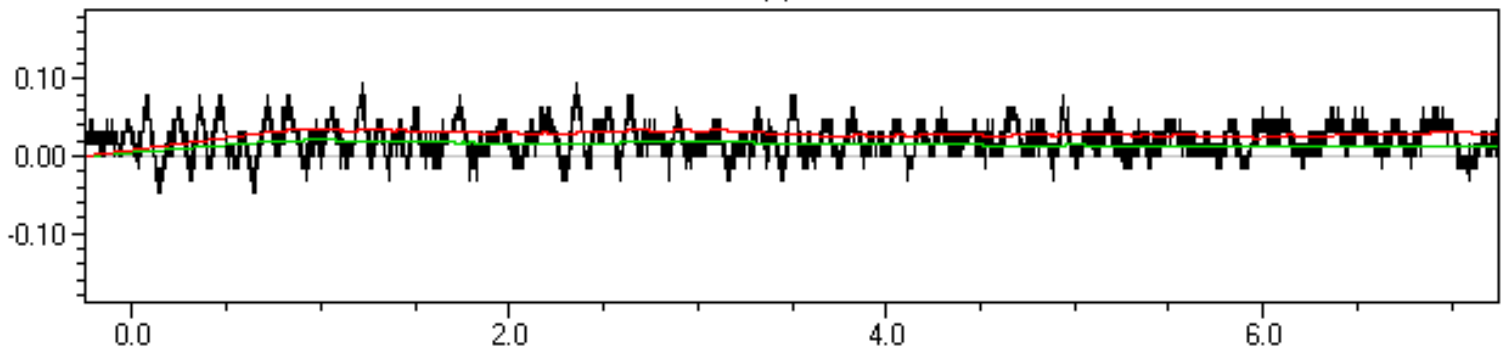
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 12:32:01

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHLU.TD0

Trigger: Long

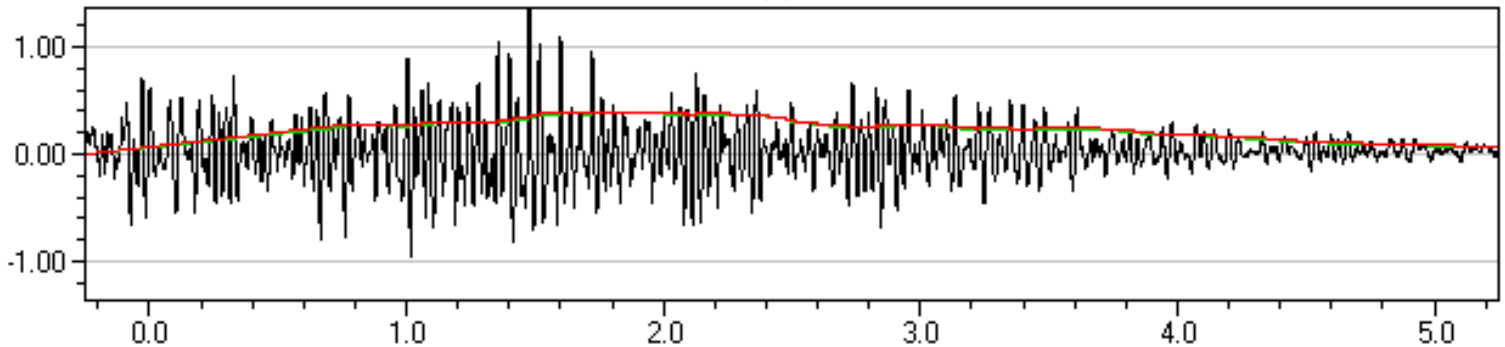
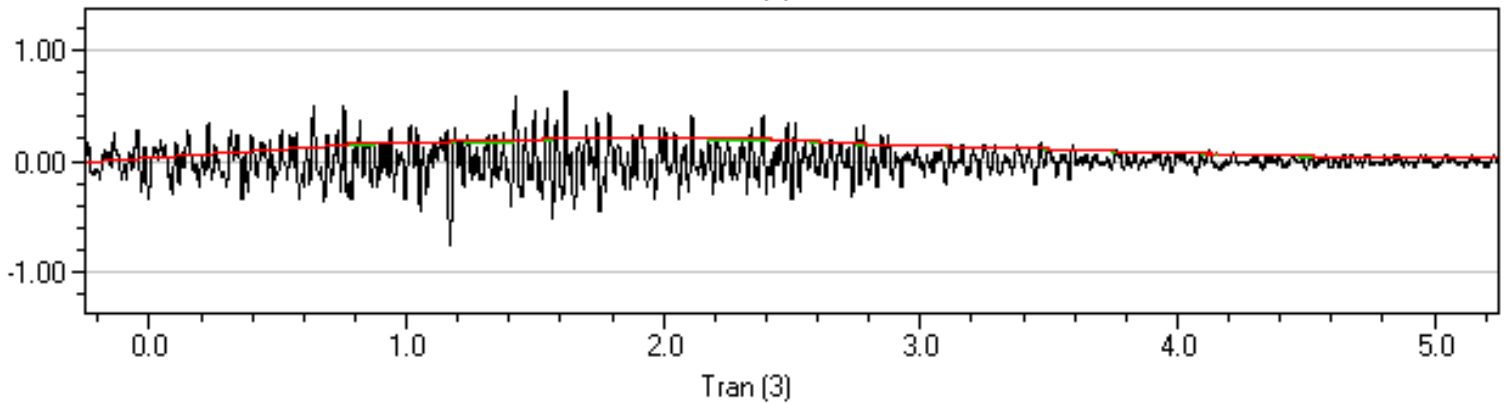
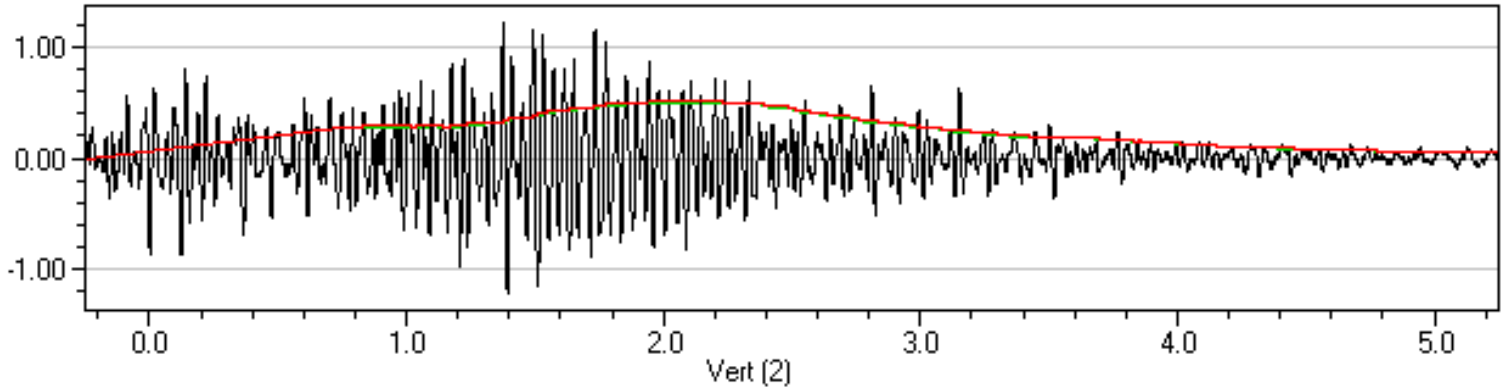
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.37	0.746	1.22	mm/s	
ZC Freq	30	24	27	Hz	
Time of Peak	1.477	1.168	1.376	Sec	
Peak Acceleration	0.0249	0.0149	0.0232	g	
Peak Displacement	0.00693	0.00445	0.00750	mm	rms of magnitude
RMS (1s fw 5.6)	0,39	0,21	0,51		0,66
RMS (1s)	0,40	0,22	0,52		0,68

Long (1)





Event Date: January 6, 2007

Event Time: 18:34:38

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHMB.LQ0

Trigger: Tran

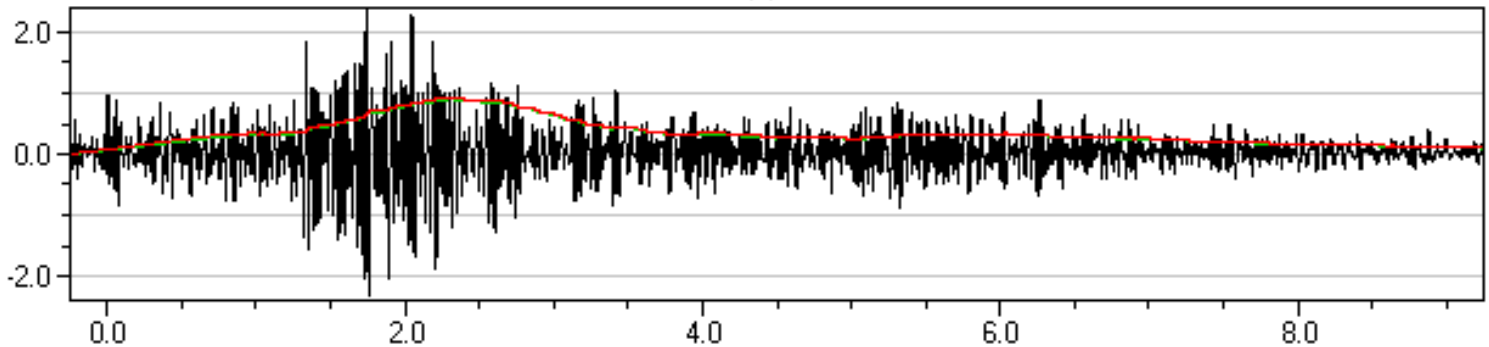
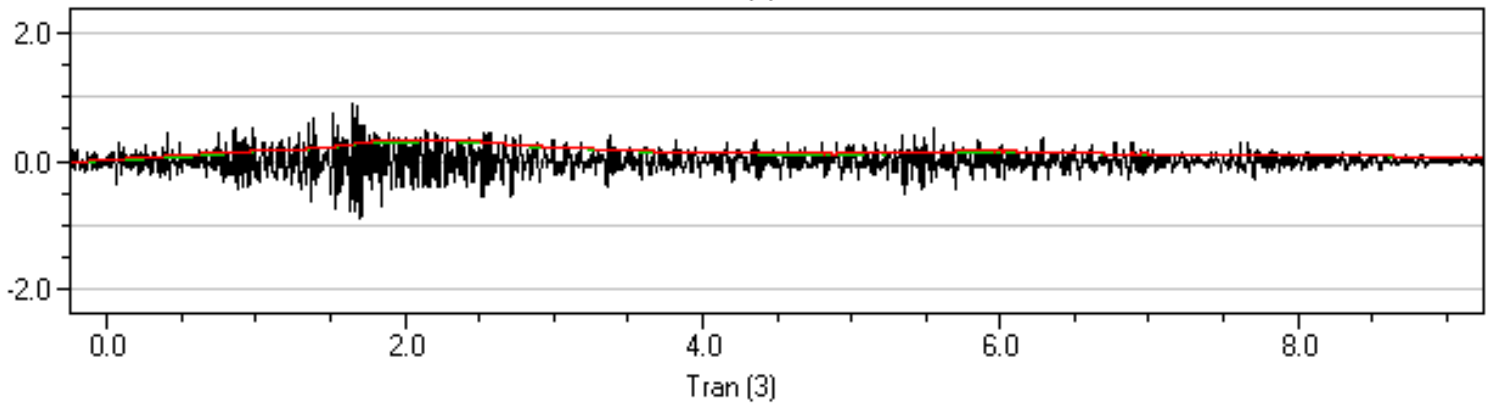
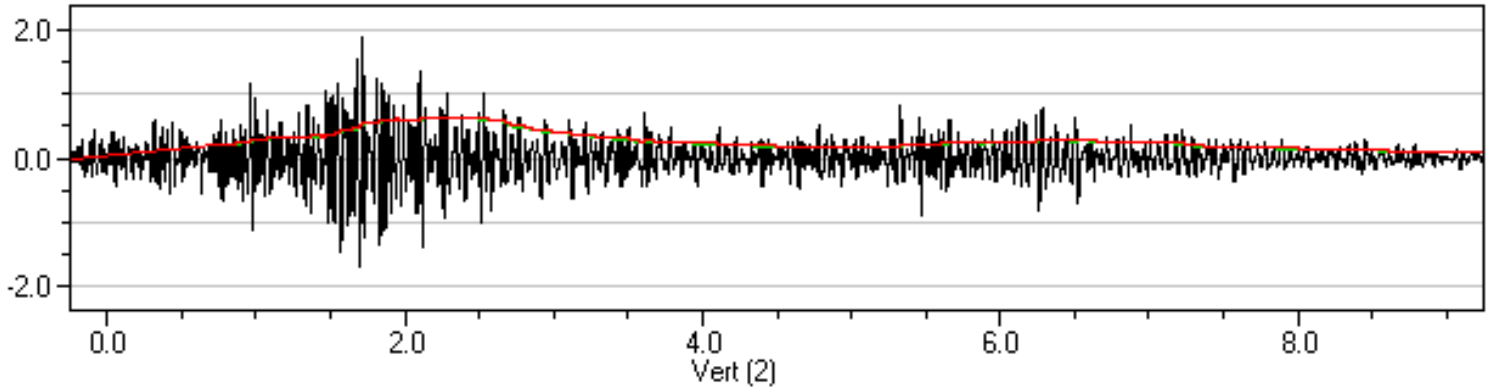
Record Time: 9.25 sec

Sample Rate: 1024 sps

Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.40	0.921	1.92	mm/s	
ZC Freq	28	28	30	Hz	
Time of Peak	1.739	1.701	1.715	Sec	
Peak Acceleration	0.0481	0.0199	0.0348	g	
Peak Displacement	0.0135	0.00488	0.0114	mm	rms of magnitude
RMS (1s fw 5.6)	0,91	0,32	0,63		1,15
RMS (1s)	0,93	0,32	0,65		1,18

Long (1)





Event Date: January 6, 2007

Event Time: 22:29:38

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHMM.HE0

Trigger: Tran

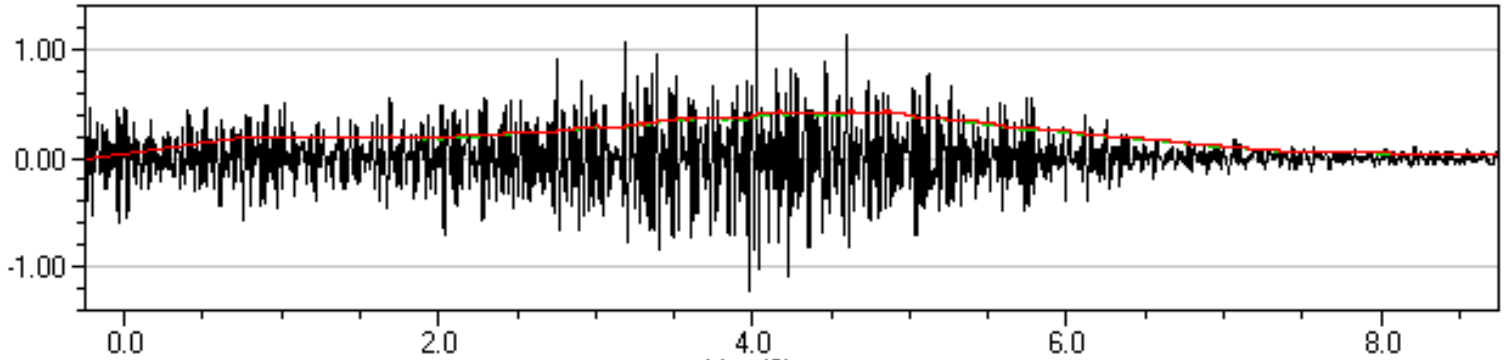
Record Time: 8.75 sec

Sample Rate: 1024 sps

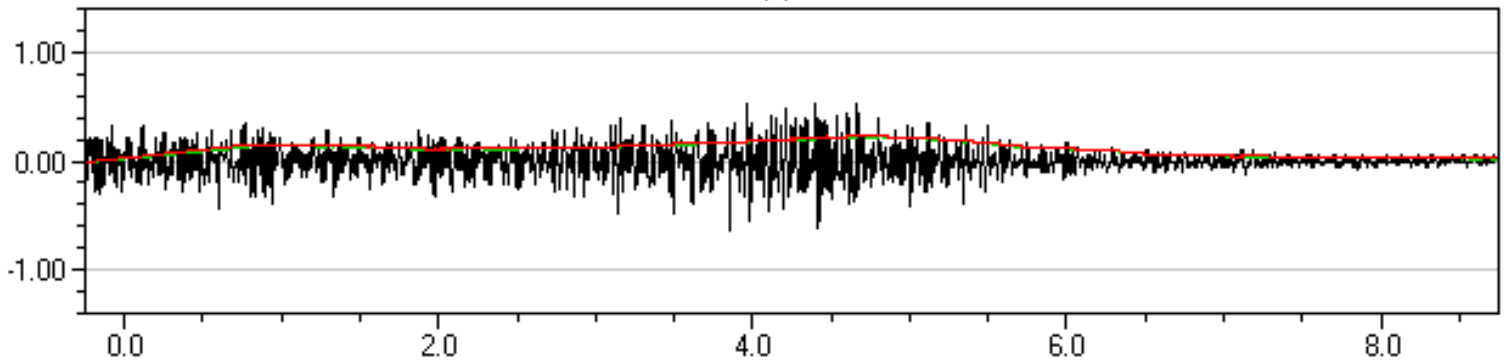
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.30	0.635	1.40	mm/s	
ZC Freq	32	30	32	Hz	
Time of Peak	4.647	3.854	4.025	Sec	
Peak Acceleration	0.0282	0.0149	0.0282	g	
Peak Displacement	0.00710	0.00389	0.00656	mm	rms of magnitude
RMS (1s fw 5.6)	0,50	0,22	0,42		0,69
RMS (1s)	0,51	0,23	0,43		0,70

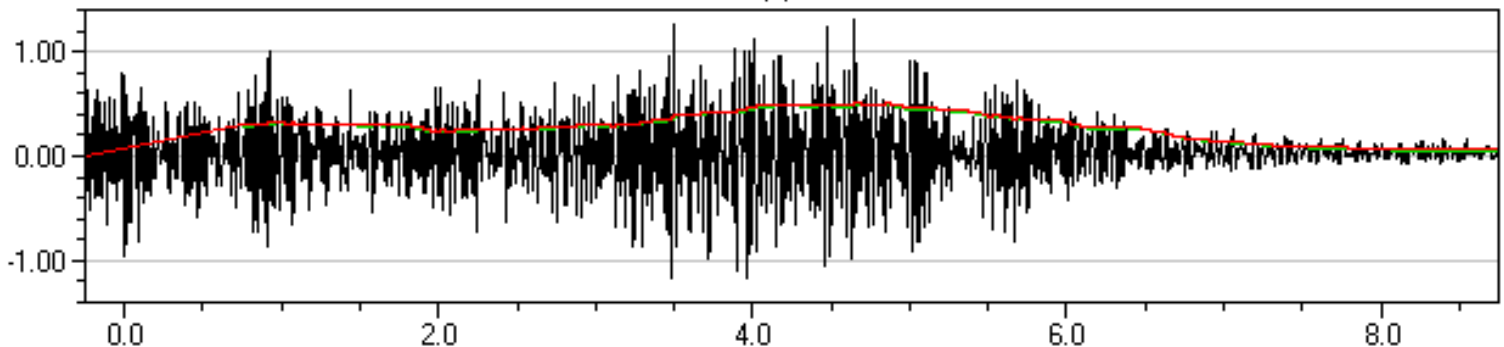
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 23:31:43

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHMP.CV0

Trigger: Tran

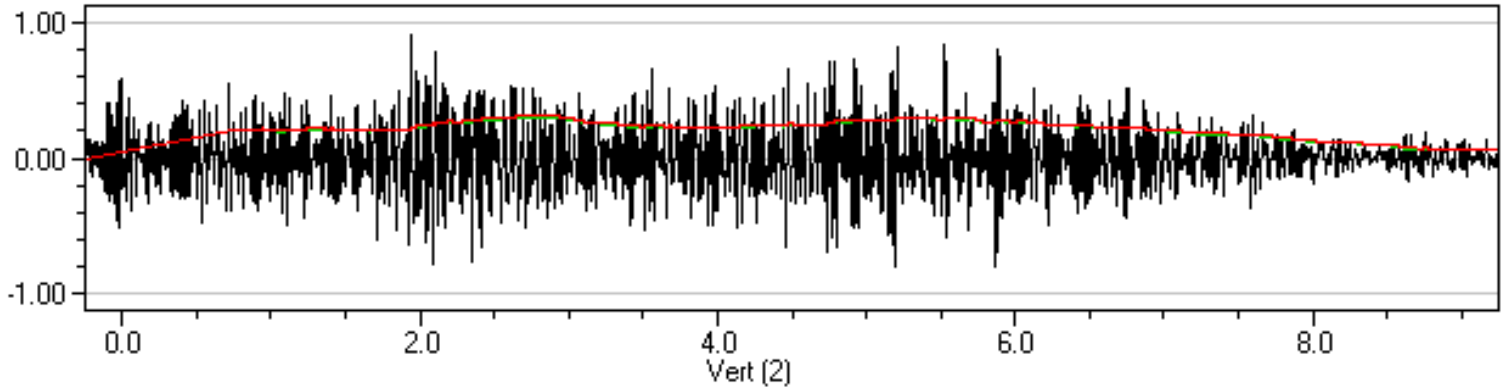
Record Time: 9.25 sec

Sample Rate: 1024 sps

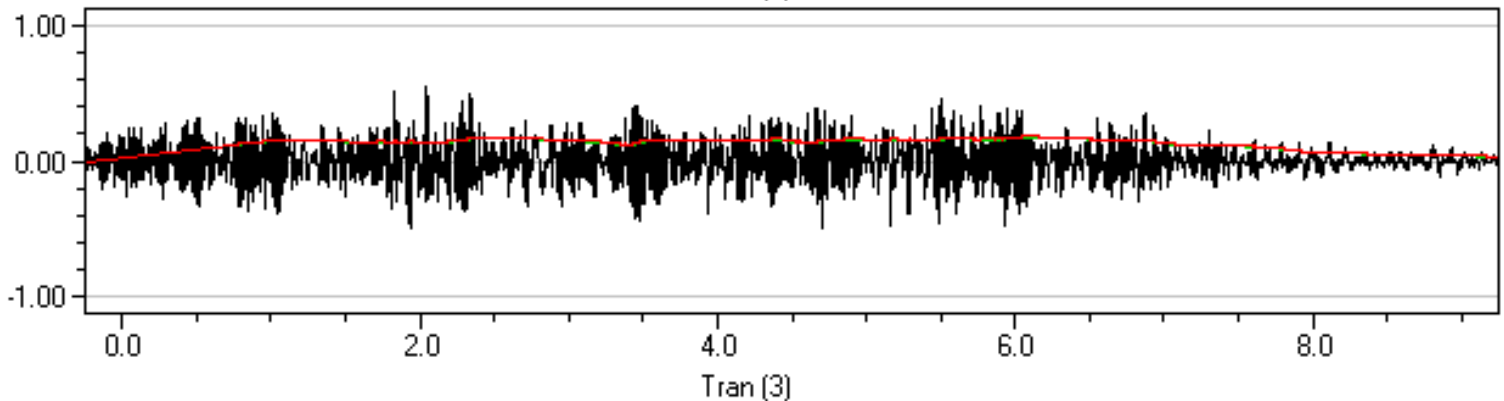
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.13	0.556	0.921	mm/s	
ZC Freq	32	32	32	Hz	
Time of Peak	0.425	2.044	1.938	Sec	
Peak Acceleration	0.0249	0.0133	0.0182	g	
Peak Displacement	0.00588	0.00269	0.00490	mm	rms of magnitude
RMS (1s fw 5.6)	0,44	0,18	0,31		0,55
RMS (1s)	0,45	0,18	0,32		0,56

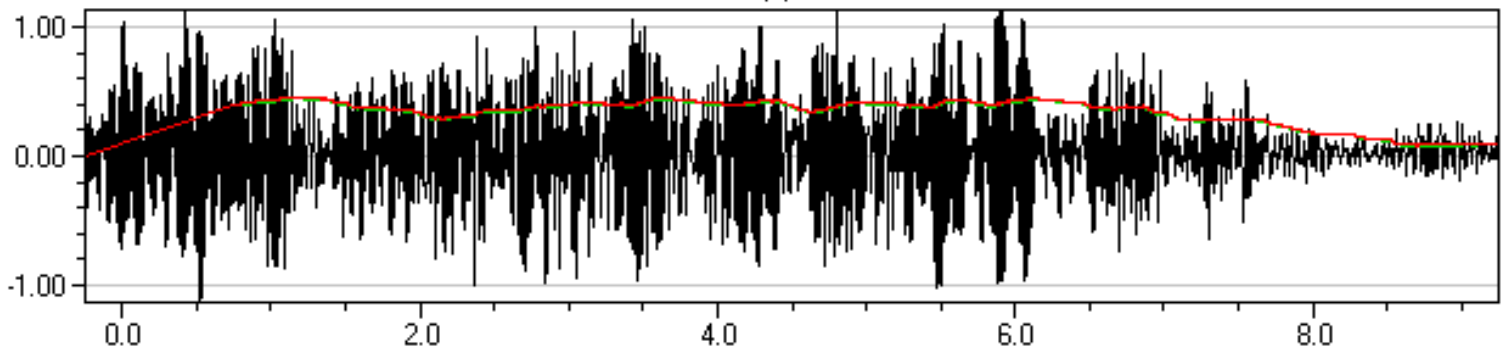
Long (1)



Vert (2)



Tran (3)





Event Date: January 7, 2007

Event Time: 09:32:20

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHNH.5W0

Trigger: Tran

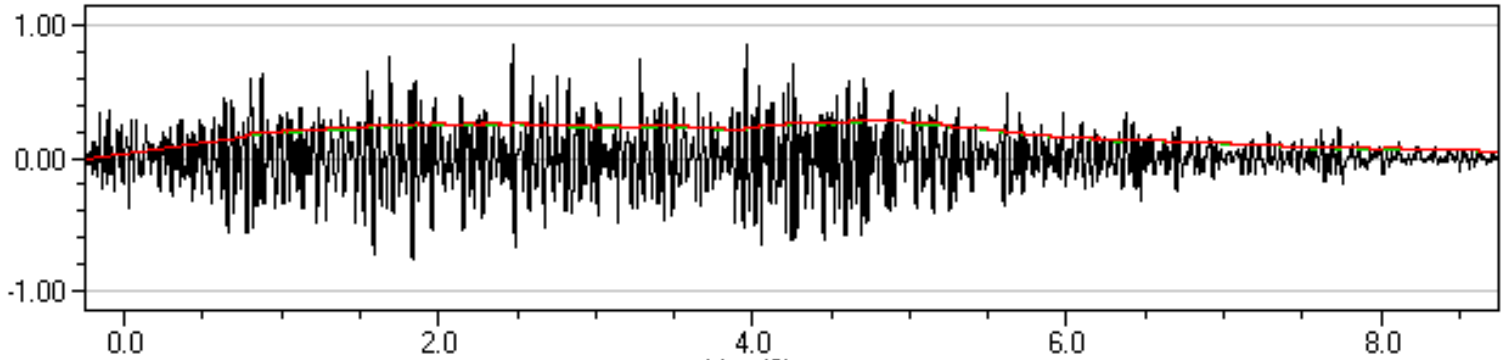
Record Time: 8.75 sec

Sample Rate: 1024 sps

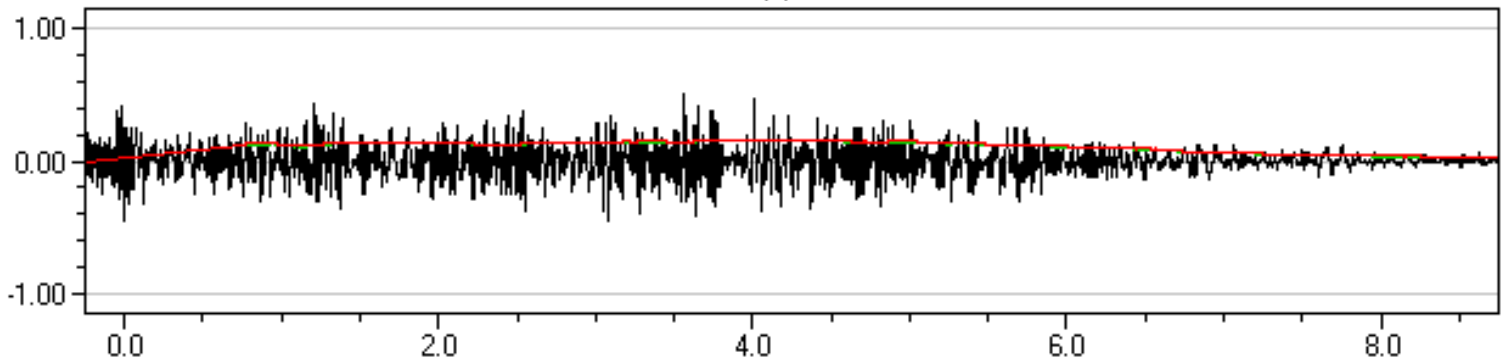
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.14	0.508	0.857	mm/s	
ZC Freq	30	27	28	Hz	
Time of Peak	4.905	3.564	2.470	Sec	
Peak Acceleration	0.0232	0.0116	0.0182	g	
Peak Displacement	0.00604	0.00272	0.00522	mm	rms of magnitude
RMS (1s fw 5.6)	0,40	0,16	0,28		0,50
RMS (1s)	0,41	0,16	0,29		0,51

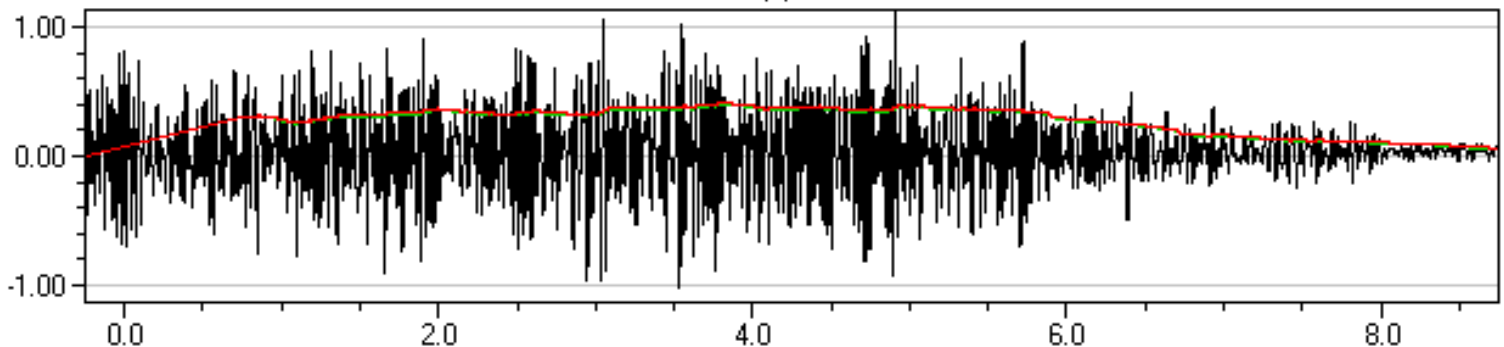
Long (1)



Vert (2)



Tran (3)





Event Date: January 7, 2007

Event Time: 11:31:37

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHN.M.OP0

Trigger: Tran

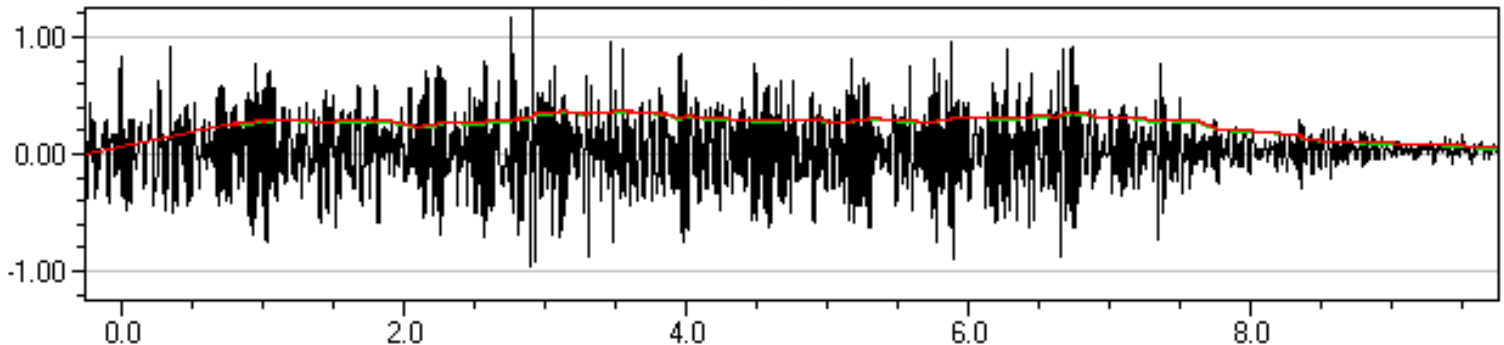
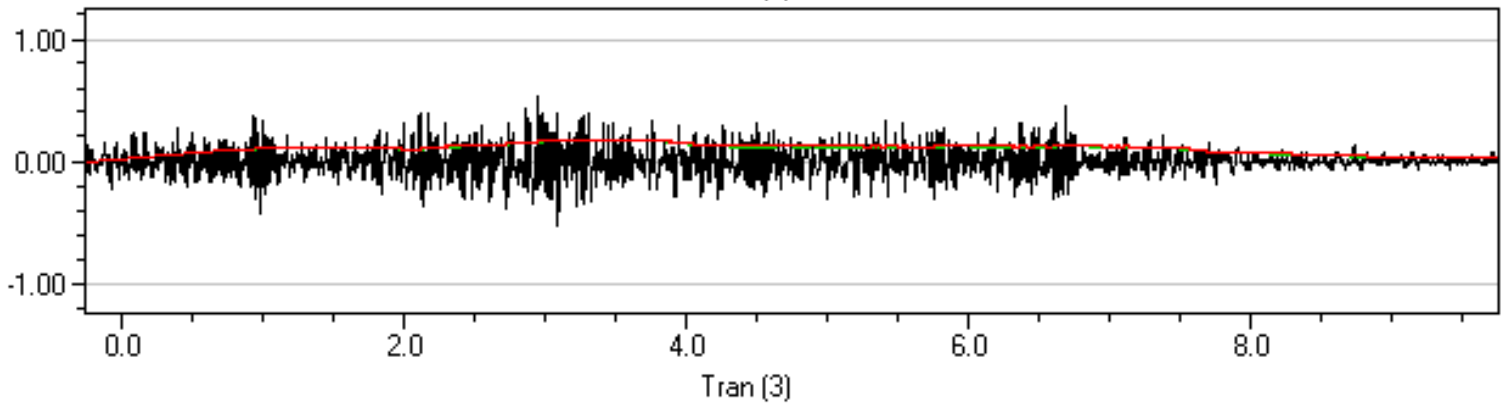
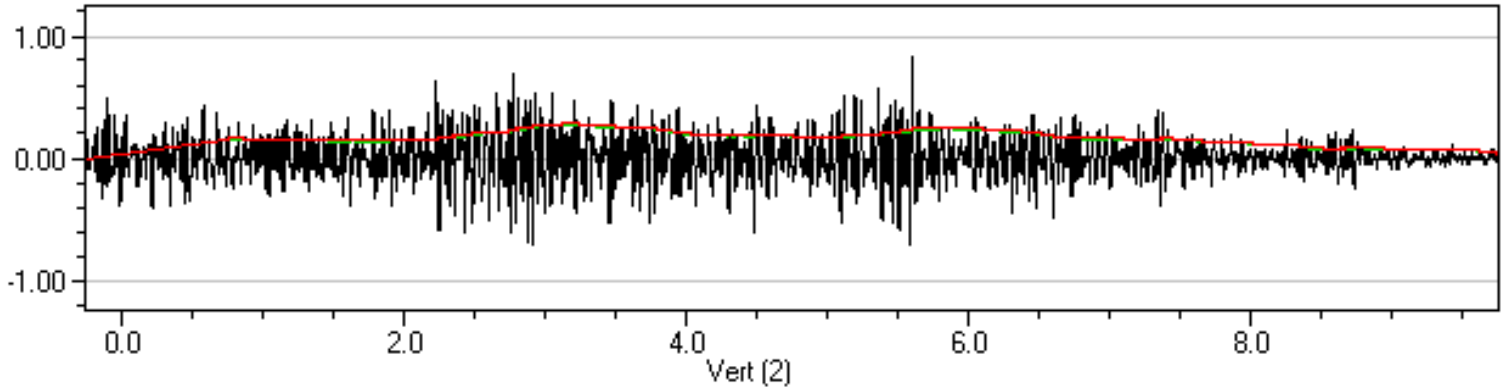
Record Time: 9.75 sec

Sample Rate: 1024 sps

Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.25	0.524	0.825	mm/s	
ZC Freq	34	37	26	Hz	
Time of Peak	2.915	2.956	5.600	Sec	
Peak Acceleration	0.0265	0.0166	0.0166	g	
Peak Displacement	0.00612	0.00290	0.00468	mm	rms of magnitude
RMS (1s fw 5.6)	0,36	0,17	0,28		0,48
RMS (1s)	0,37	0,18	0,28		0,49

Long (1)





Event Date: January 7, 2007

Event Time: 14:33:19

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHN.V.3J0

Trigger: Tran

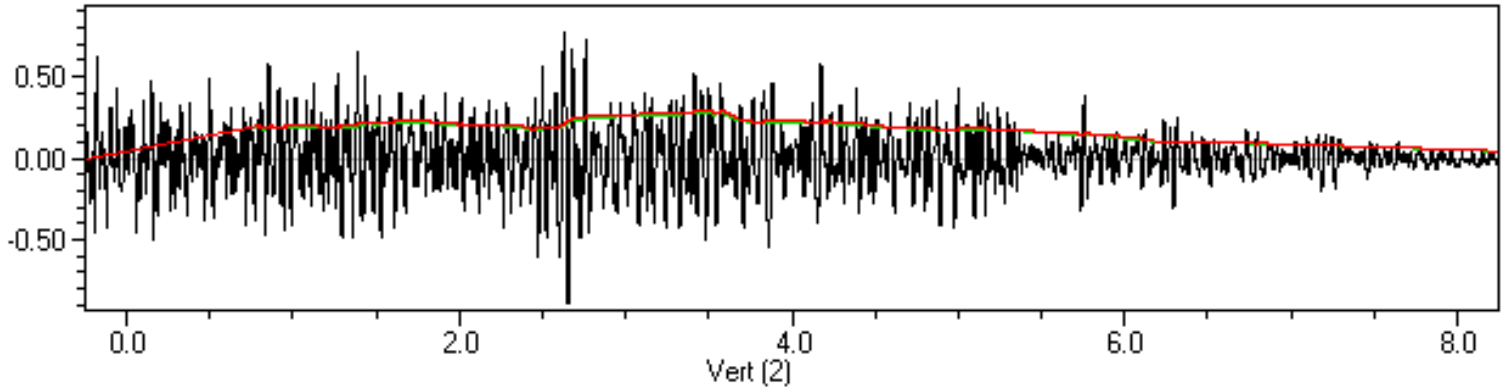
Record Time: 8.25 sec

Sample Rate: 1024 sps

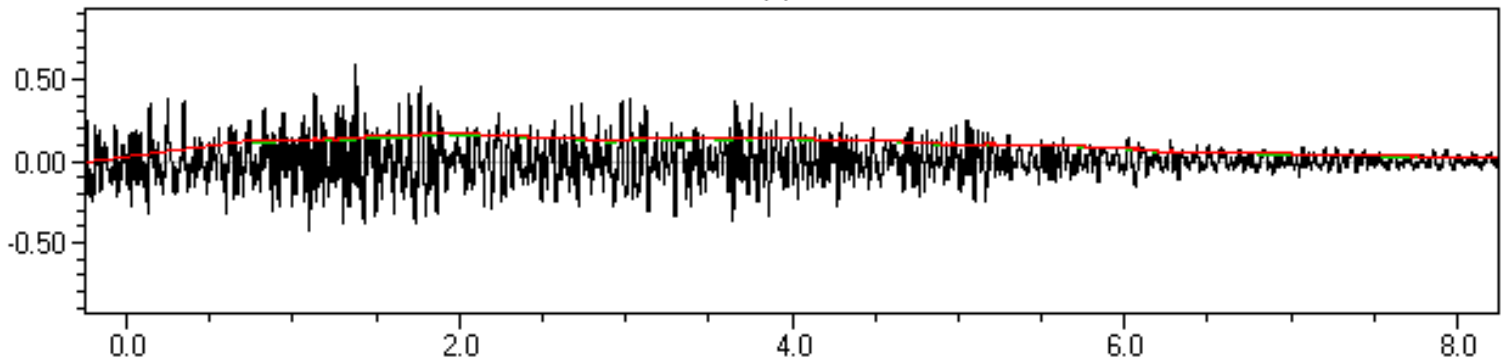
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.937	0.587	0.889	mm/s	
ZC Freq	30	32	20	Hz	
Time of Peak	3.861	1.378	2.652	Sec	
Peak Acceleration	0.0199	0.0149	0.0149	g	
Peak Displacement	0.00696	0.00367	0.00700	mm	rms of magnitude
RMS (1s fw 5.6)	0,38	0,17	0,28		0,46
RMS (1s)	0,39	0,17	0,29		0,47

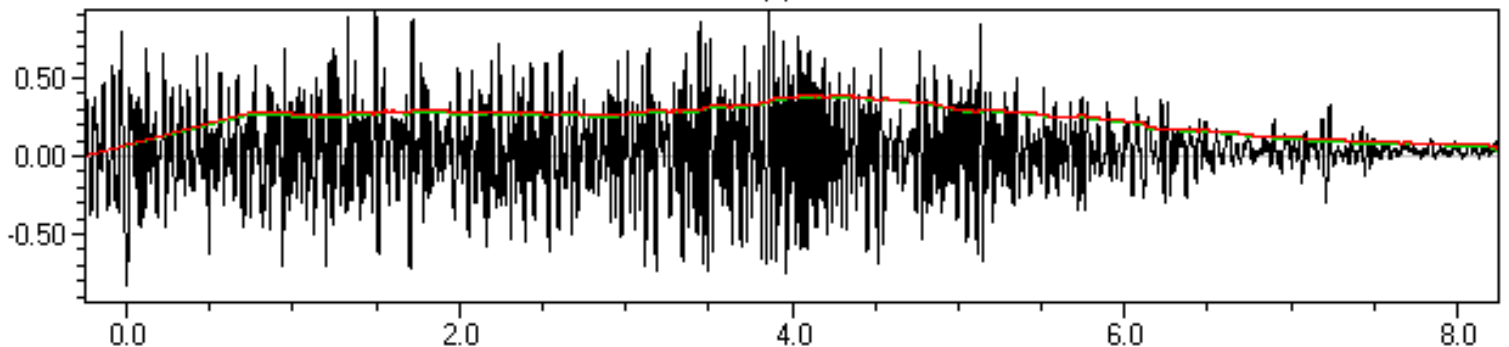
Long (1)



Vert (2)



Tran (3)





Event Date: January 7, 2007

Event Time: 17:42:04

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHO3.U40

Trigger: Tran

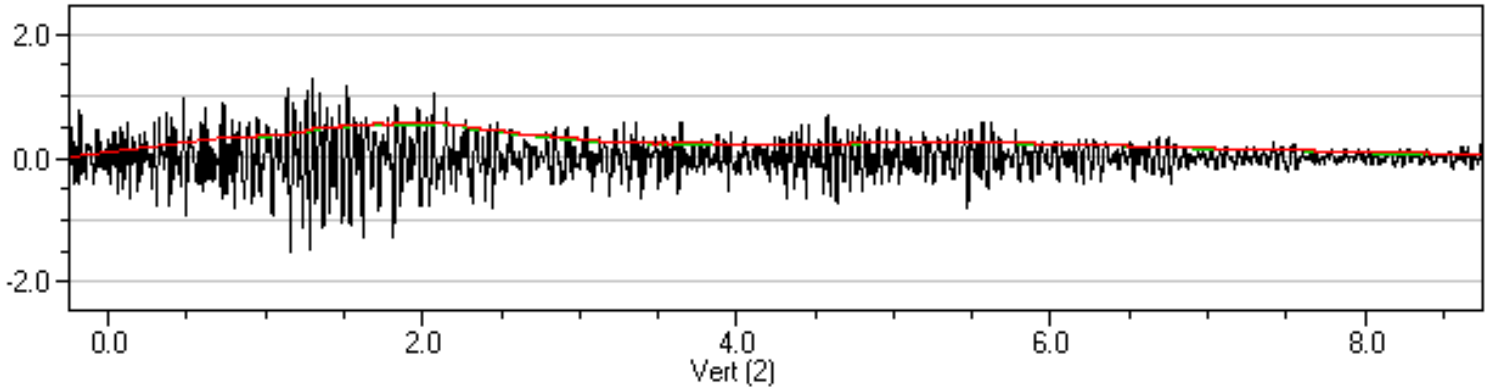
Record Time: 8.75 sec

Sample Rate: 1024 sps

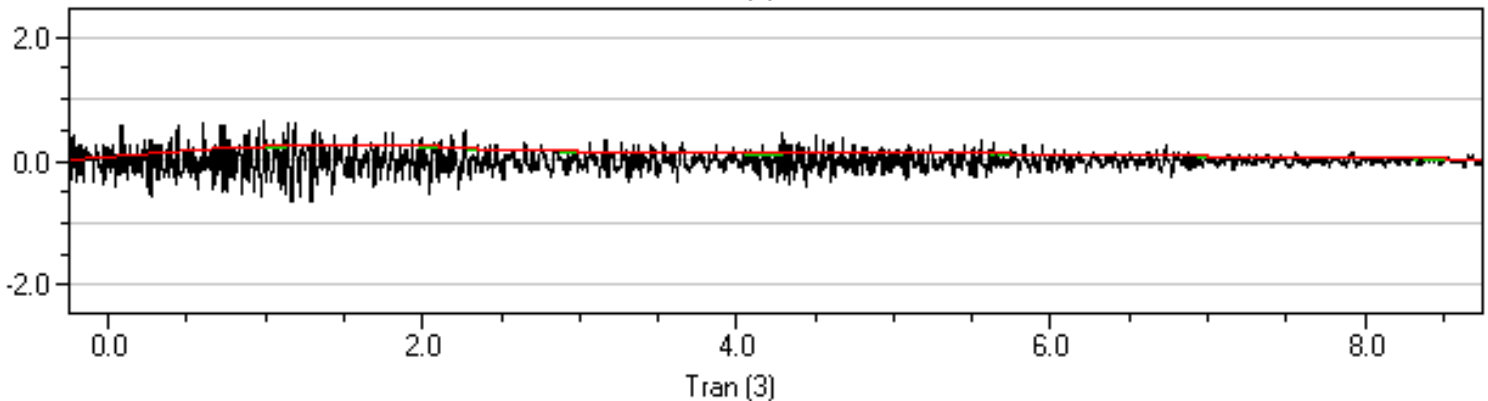
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	2.46	0.667	1.52	mm/s	
ZC Freq	27	20	23	Hz	
Time of Peak	1.162	1.166	1.158	Sec	
Peak Acceleration	0.0398	0.0166	0.0282	g	
Peak Displacement	0.0143	0.00462	0.00947	mm	rms of magnitude
RMS (1s fw 5.6)	0,76	0,27	0,55		0,97
RMS (1s)	0,79	0,27	0,57		1,00

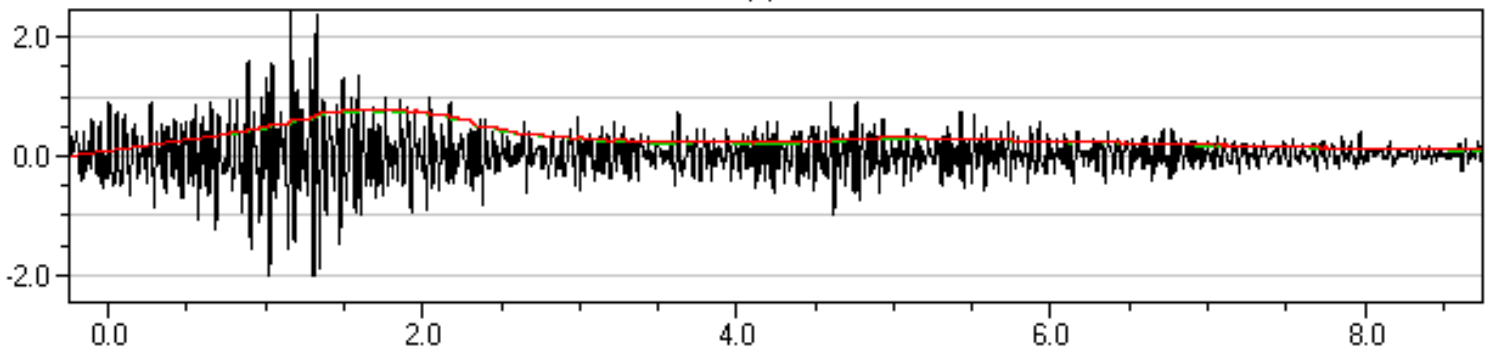
Long (1)



Vert (2)



Tran (3)





Event Date: January 8, 2007

Event Time: 08:24:31

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHP8.OV0

Trigger: Tran

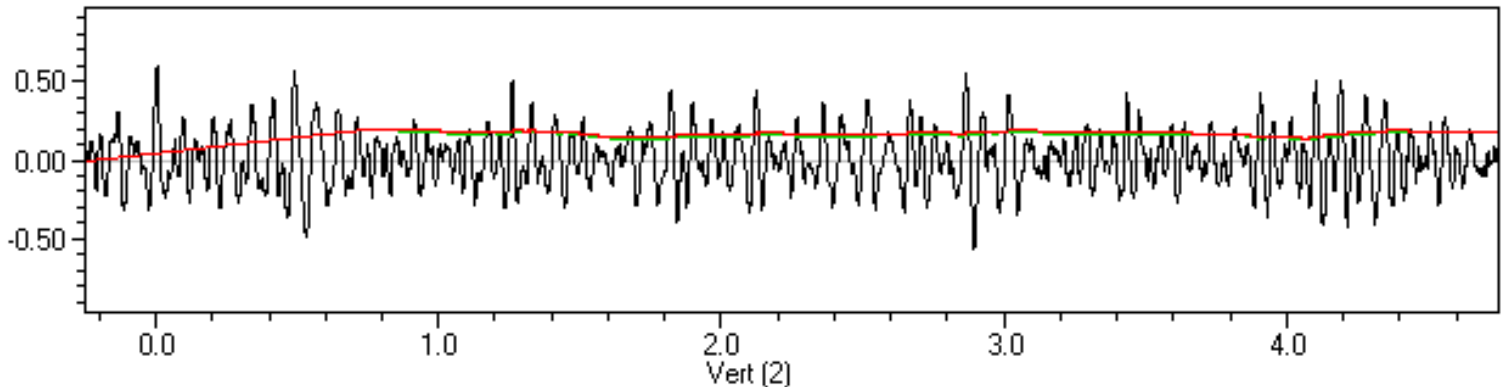
Record Time: 4.75 sec

Sample Rate: 1024 sps

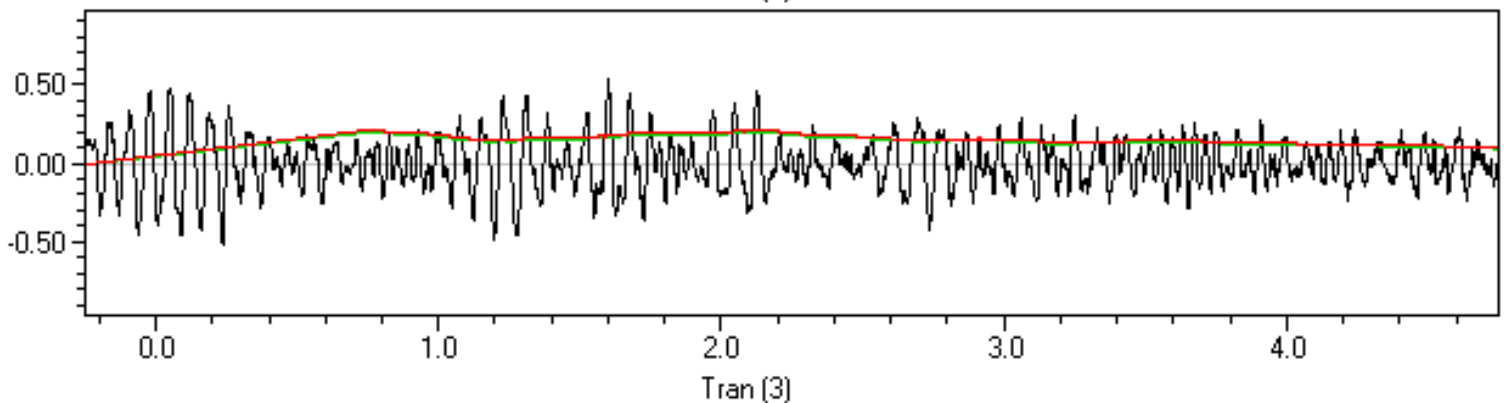
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.968	0.540	0.603	mm/s	
ZC Freq	16	17	19	Hz	
Time of Peak	0.143	1.600	0.004	Sec	
Peak Acceleration	0.0116	0.00994	0.00994	g	
Peak Displacement	0.00982	0.00540	0.00553	mm	rms of magnitude
RMS (1s fw 5.6)	0,37	0,19	0,19		0,46
RMS (1s)	0,40	0,21	0,20		0,49

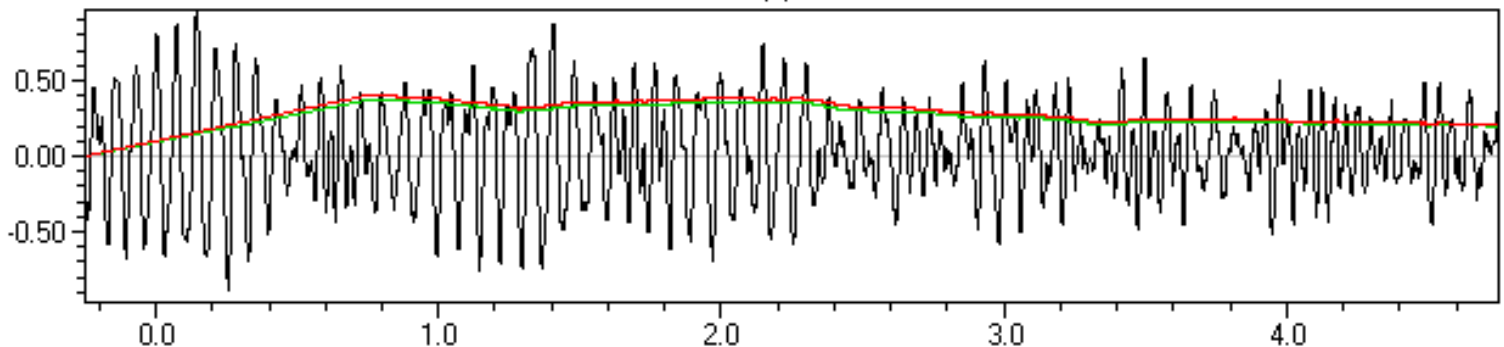
Long (1)



Vert (2)



Tran (3)





Event Date: January 8, 2007

Event Time: 15:31:35

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHPS.GN0

Trigger: Tran

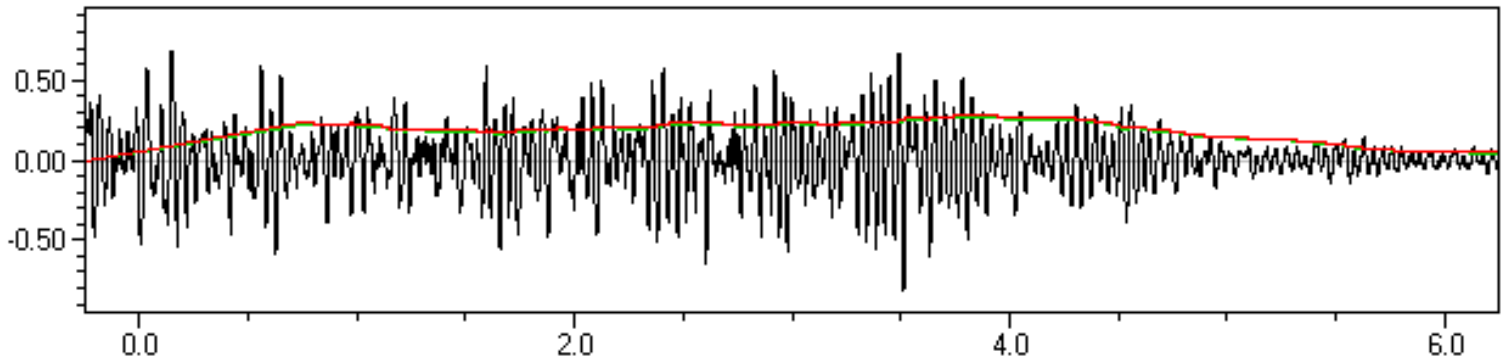
Record Time: 6.25 sec

Sample Rate: 1024 sps

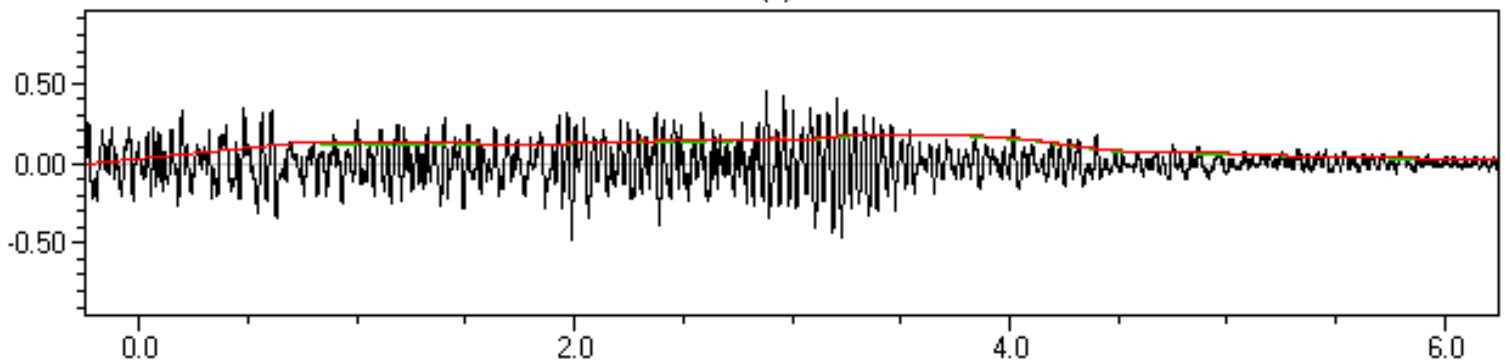
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.952	0.476	0.810	mm/s	
ZC Freq	20	27	23	Hz	
Time of Peak	0.149	1.985	3.513	Sec	
Peak Acceleration	0.0166	0.0133	0.0133	g	
Peak Displacement	0.00739	0.00297	0.00588	mm	rms of magnitude
RMS (1s fw 5.6)	0,34	0,17	0,27		0,47
RMS (1s)	0,35	0,18	0,28		0,48

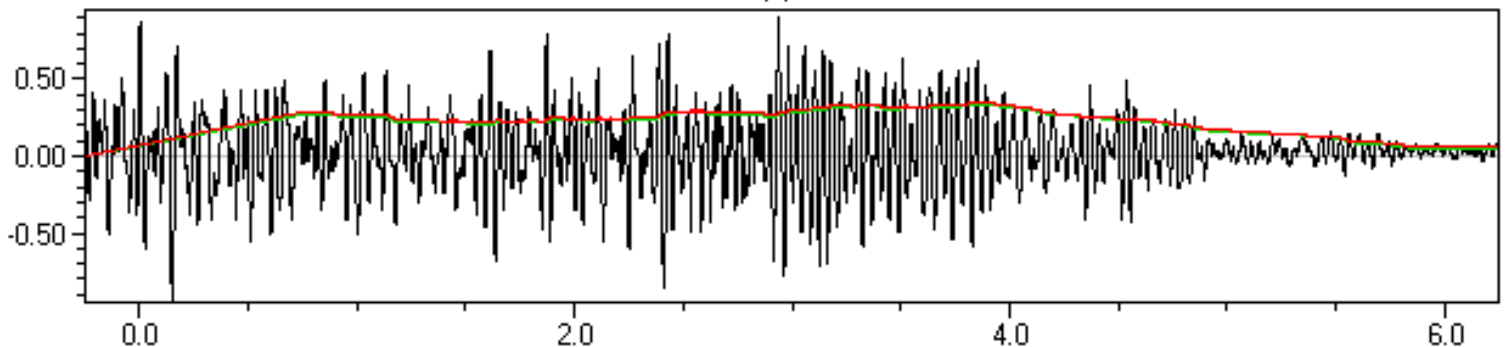
Long (1)



Vert (2)



Tran (3)





Event Date: January 8, 2007

Event Time: 17:52:51

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHPZ.030

Trigger: Tran

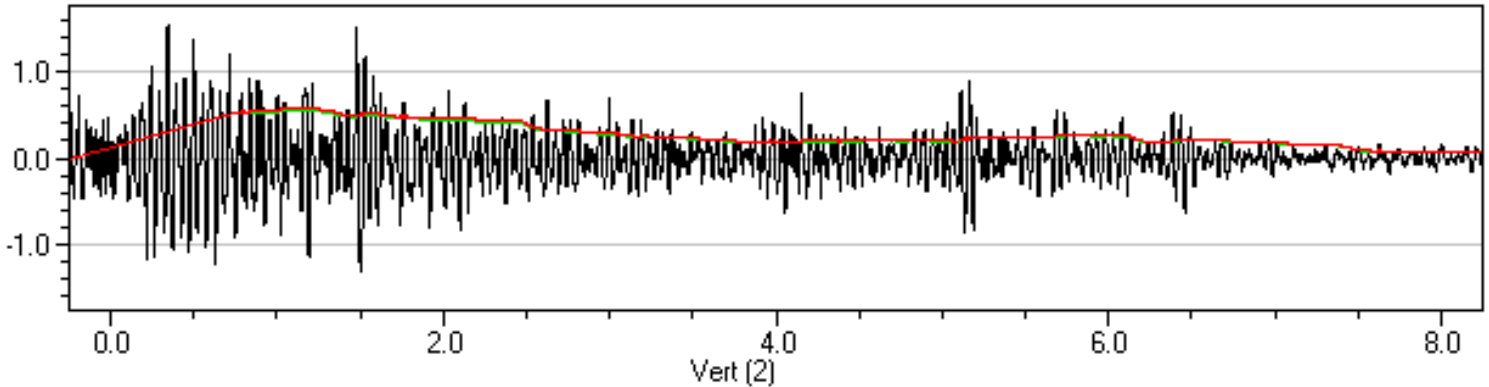
Record Time: 8.25 sec

Sample Rate: 1024 sps

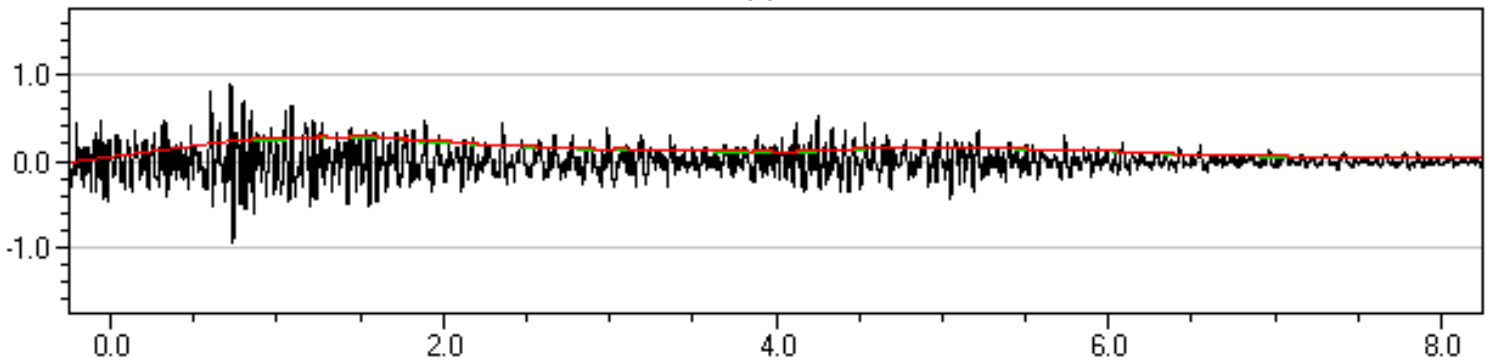
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.78	0.952	1.54	mm/s	
ZC Freq	27	34	23	Hz	
Time of Peak	0.834	0.735	0.342	Sec	
Peak Acceleration	0.0315	0.0232	0.0232	g	
Peak Displacement	0.0104	0.00514	0.0133	mm	rms of magnitude
RMS (1s fw 5.6)	0,56	0,28	0,57		0,83
RMS (1s)	0,58	0,29	0,59		0,86

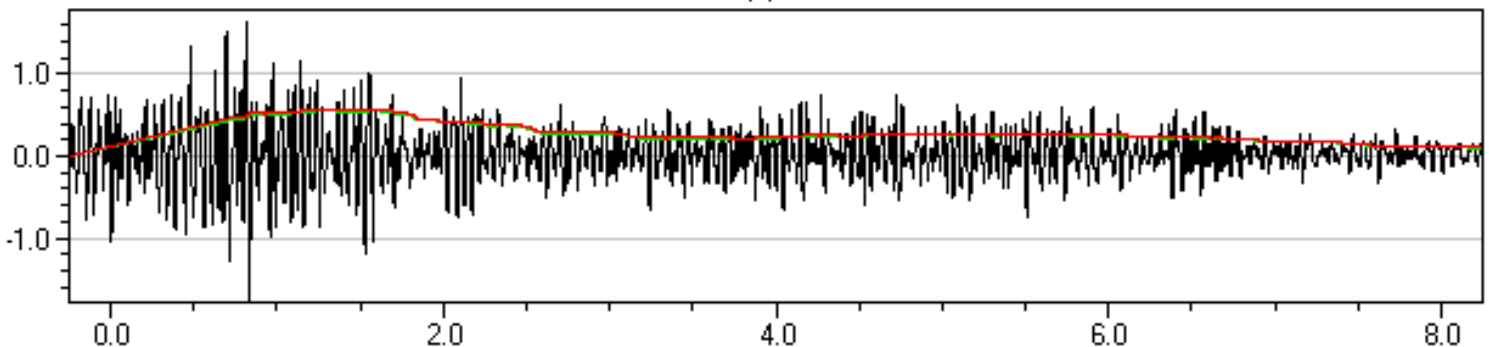
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 18:01:23

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHRU.2B0

Trigger: Tran

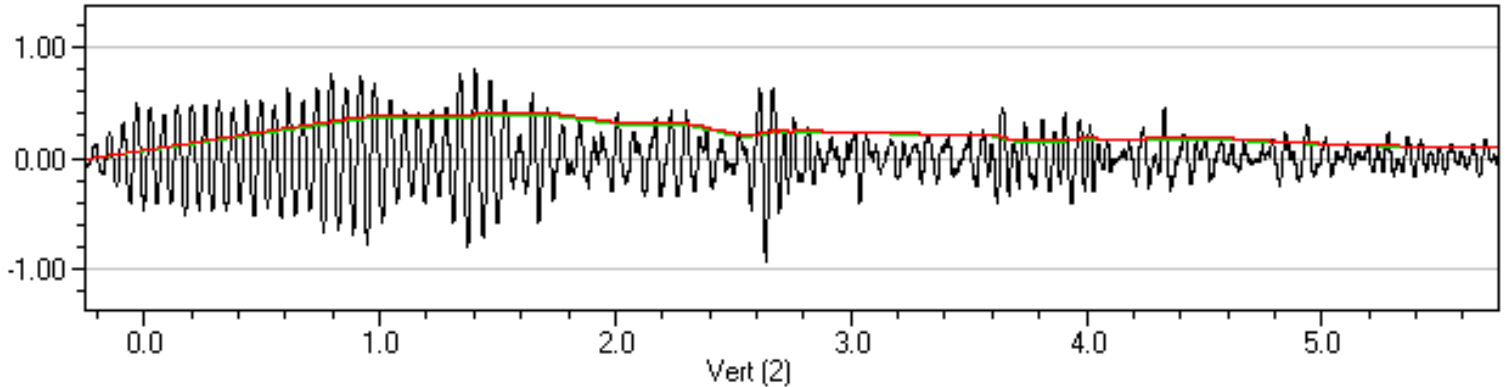
Record Time: 5.75 sec

Sample Rate: 1024 sps

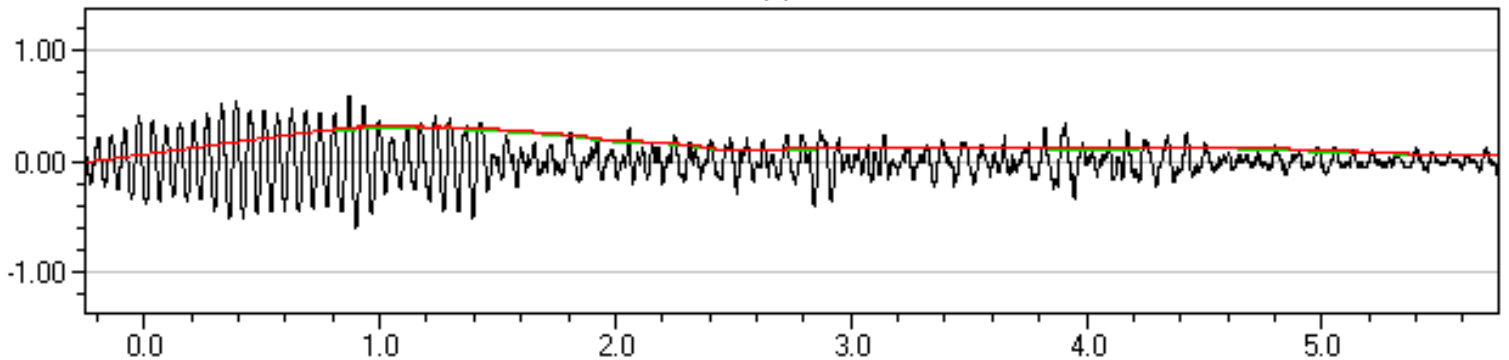
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.37	0.603	0.937	mm/s	
ZC Freq	16	16	19	Hz	
Time of Peak	0.922	0.899	2.638	Sec	
Peak Acceleration	0.0166	0.00994	0.0116	g	
Peak Displacement	0.0134	0.00605	0.00812	mm	rms of magnitude
RMS (1s fw 5.6)	0,58	0,30	0,39		0,75
RMS (1s)	0,62	0,31	0,42		0,79

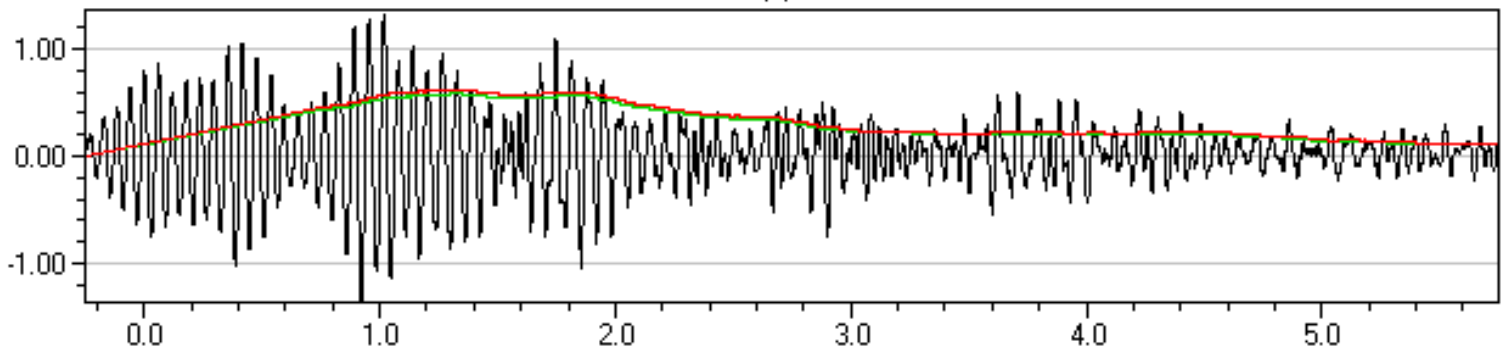
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 21:49:29

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHS4.MH0

Trigger: Tran

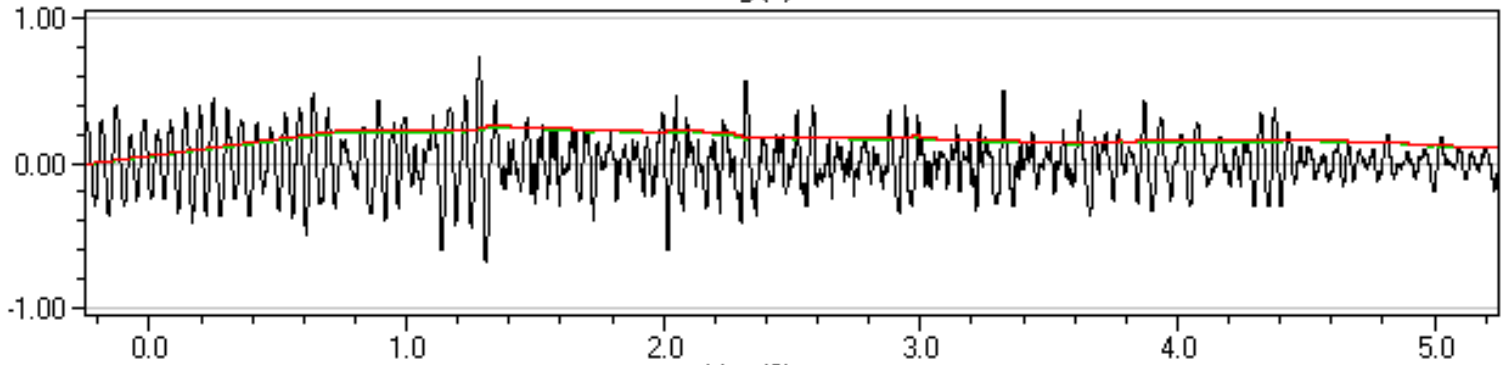
Record Time: 5.25 sec

Sample Rate: 1024 sps

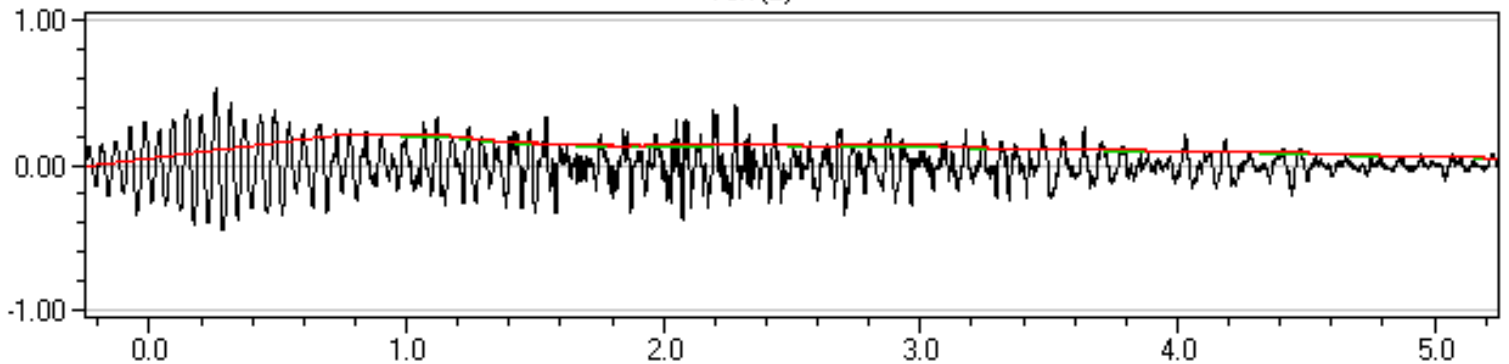
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.05	0.524	0.730	mm/s	
ZC Freq	18	17	17	Hz	
Time of Peak	0.170	0.260	1.283	Sec	
Peak Acceleration	0.0182	0.0116	0.0116	g	
Peak Displacement	0.00936	0.00475	0.00640	mm	rms of magnitude
RMS (1s fw 5.6)	0,41	0,21	0,24		0,51
RMS (1s)	0,43	0,22	0,26		0,53

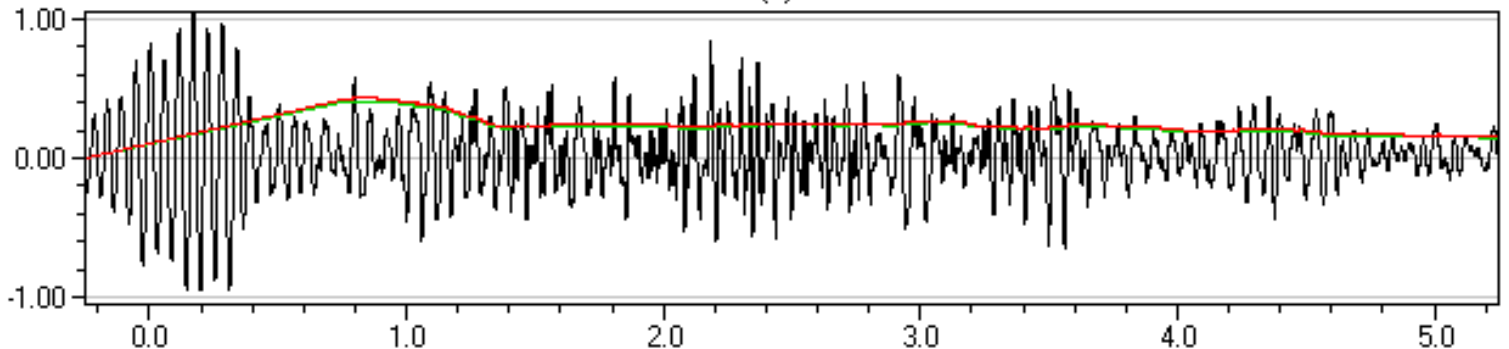
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 06:14:46

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHSS.0M0

Trigger: Tran

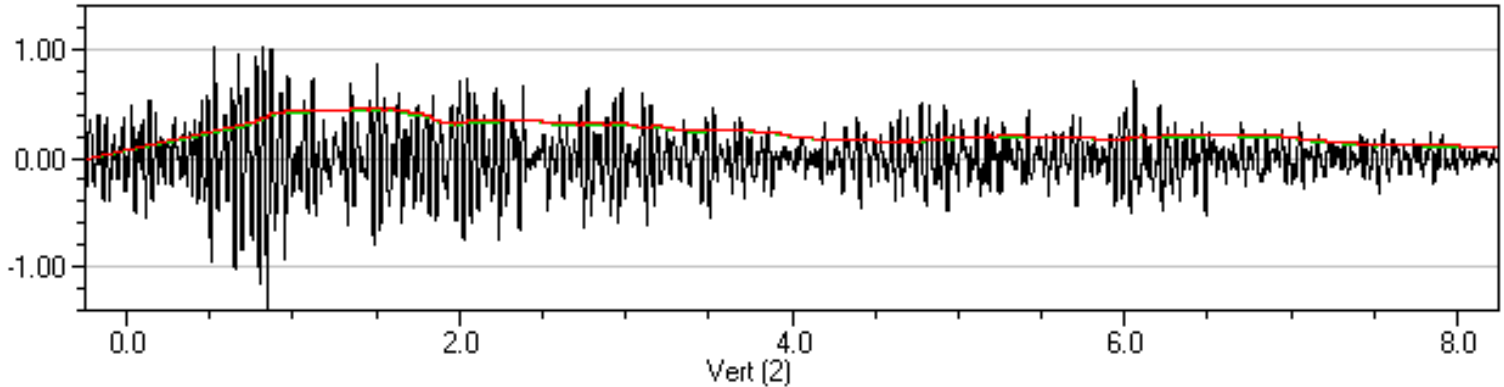
Record Time: 8.25 sec

Sample Rate: 1024 sps

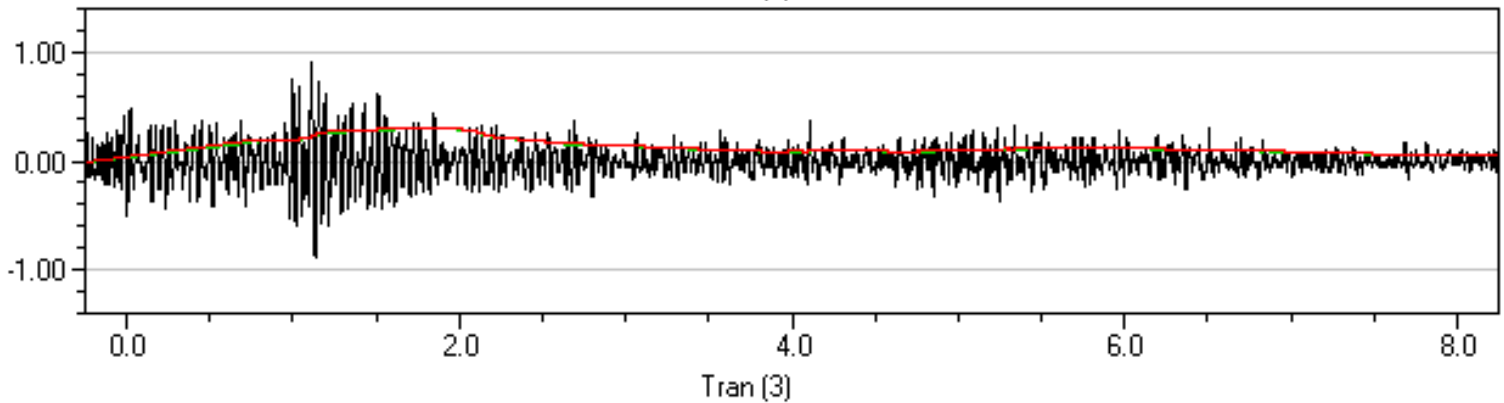
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.41	0.921	1.38	mm/s	
ZC Freq	23	22	20	Hz	
Time of Peak	1.109	1.110	0.845	Sec	
Peak Acceleration	0.0265	0.0149	0.0215	g	
Peak Displacement	0.00976	0.00663	0.00997	mm	rms of magnitude
RMS (1s fw 5.6)	0,51	0,30	0,44		0,73
RMS (1s)	0,52	0,31	0,46		0,76

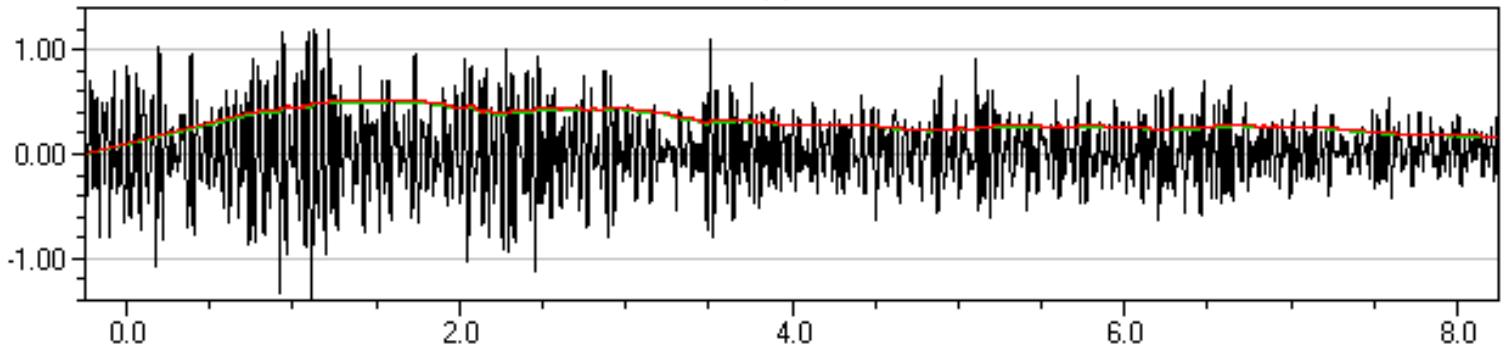
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 10:28:19

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11049, V 8.01-8.0 MiniMate Plus

File Name: M049BHT3.R70

Trigger: Tran

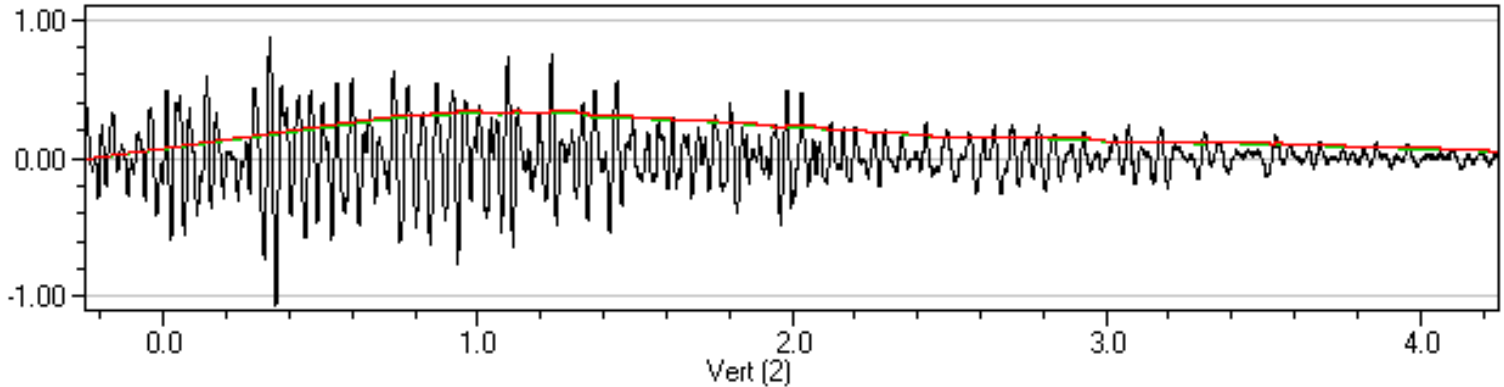
Record Time: 4.25 sec

Sample Rate: 1024 sps

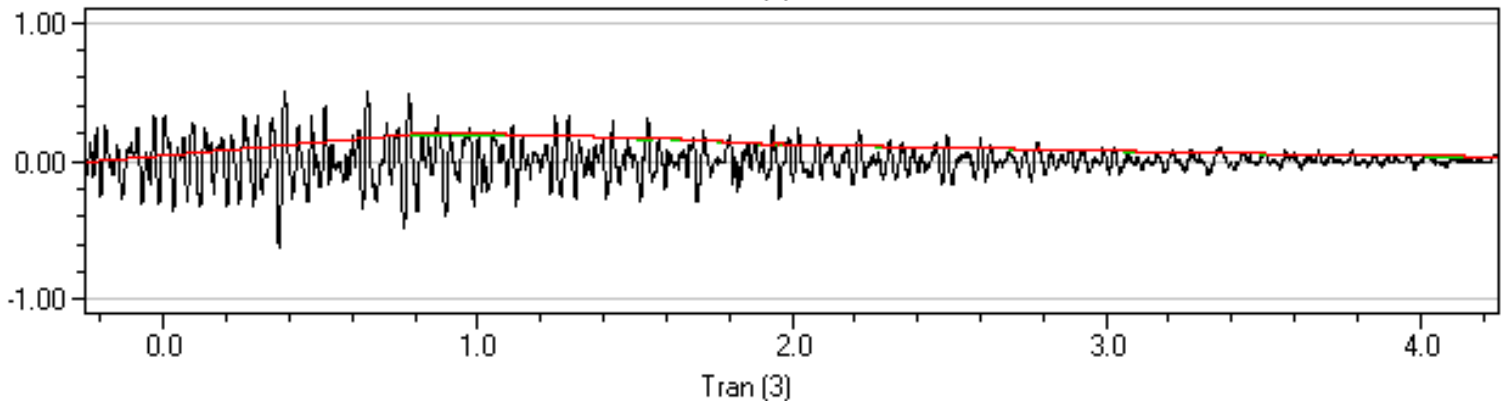
Calibration: March 29, 2006 by Instantel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	1.10	0.619	1.06	mm/s	
ZC Freq	30	28	24	Hz	
Time of Peak	0.003	0.367	0.356	Sec	
Peak Acceleration	0.0215	0.0116	0.0166	g	
Peak Displacement	0.00608	0.00353	0.00639	mm	rms of magnitude
RMS (1s fw 5.6)	0,36	0,19	0,33		0,52
RMS (1s)	0,37	0,20	0,34		0,54

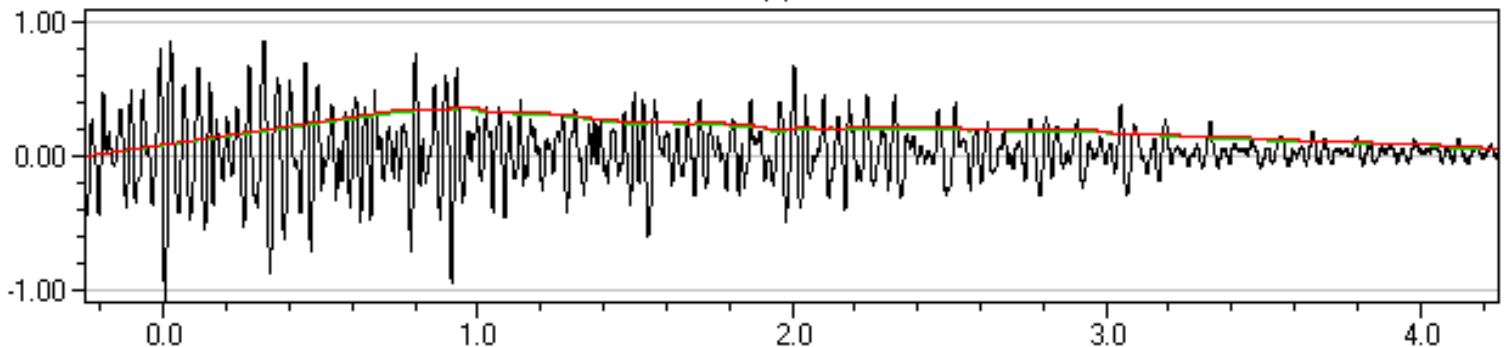
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 14:33:24

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHK5.RO0

Trigger: Tran

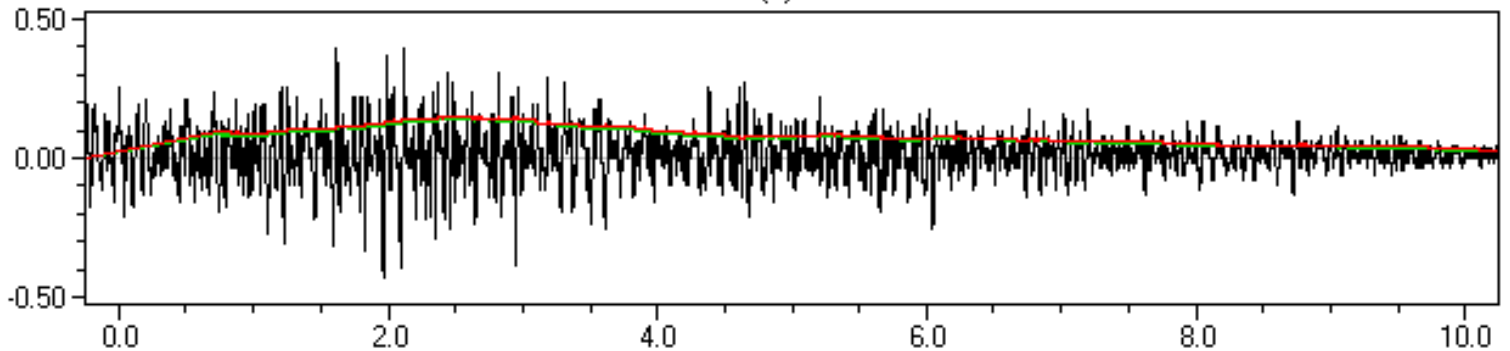
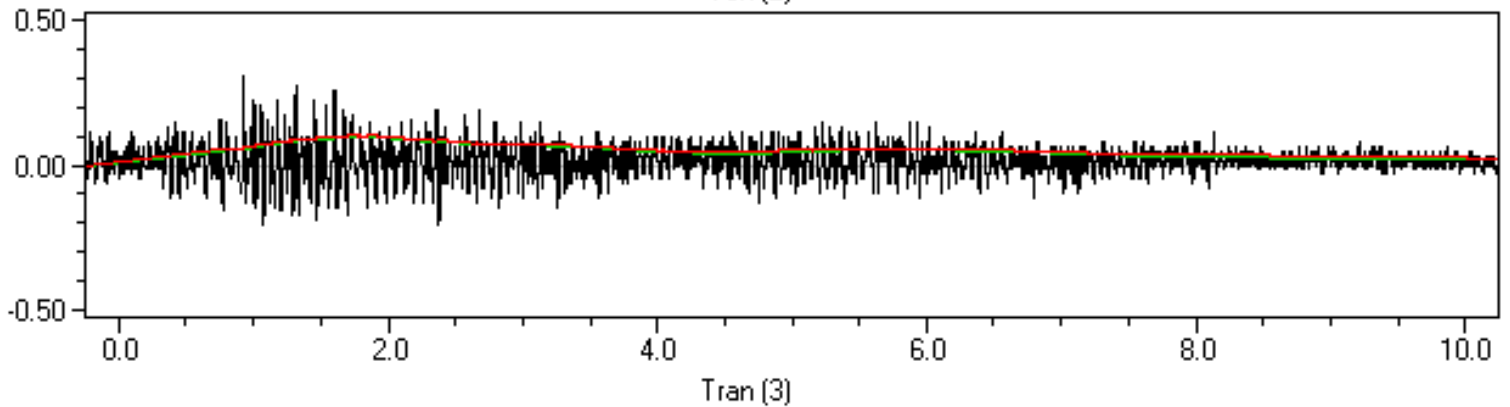
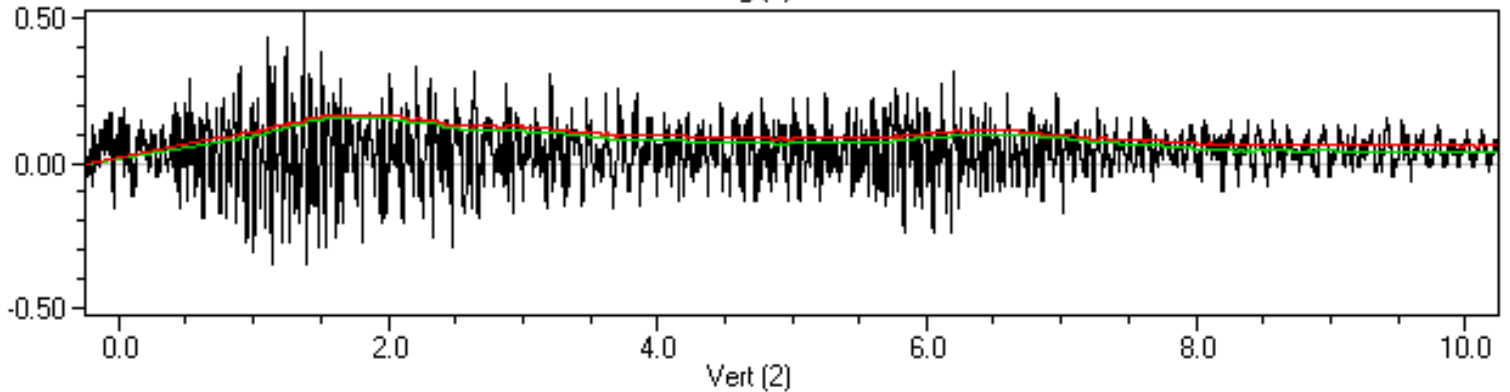
Record Time: 10.25 sec

Sample Rate: 1024 sps

Calibration: September 8, 2006 by Instatel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.429	0.302	0.524	mm/s	
ZC Freq	17	28	16	Hz	
Time of Peak	1.964	0.926	1.373	Sec	
Peak Acceleration	0.00829	0.00663	0.00829	g	
Peak Displacement	0.00356	0.00187	0.00409	mm	rms of magnitude
RMS (1s fw 5.6)	0,14	0,10	0,16		0,22
RMS (1s)	0,15	0,10	0,17		0,23

Long (1)





Event Date: January 5, 2007

Event Time: 18:29:11

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHKG.ON0

Trigger: Long

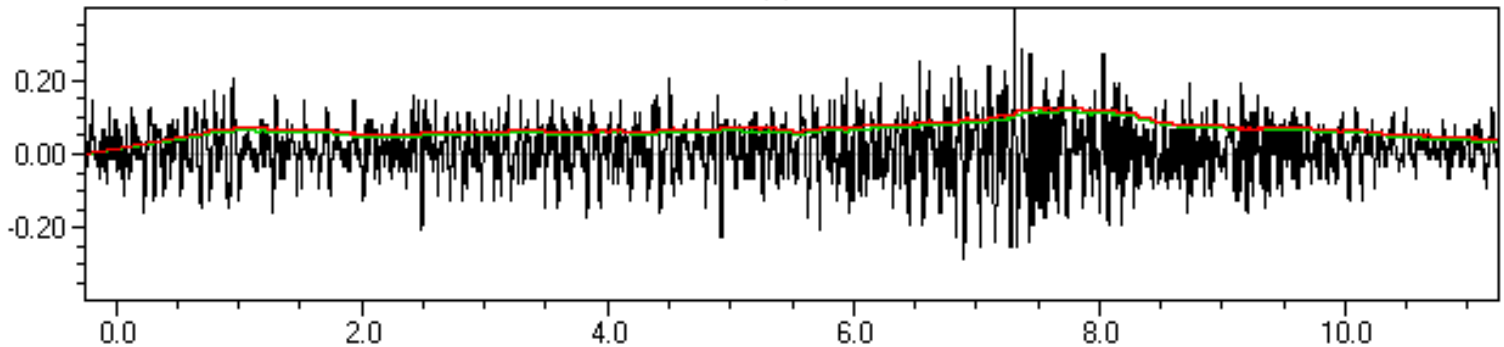
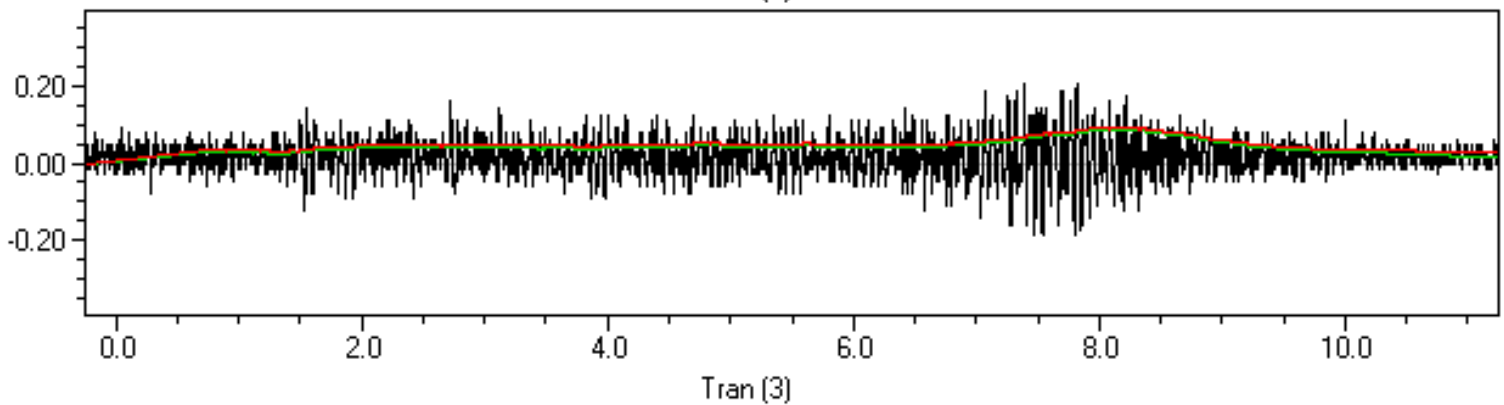
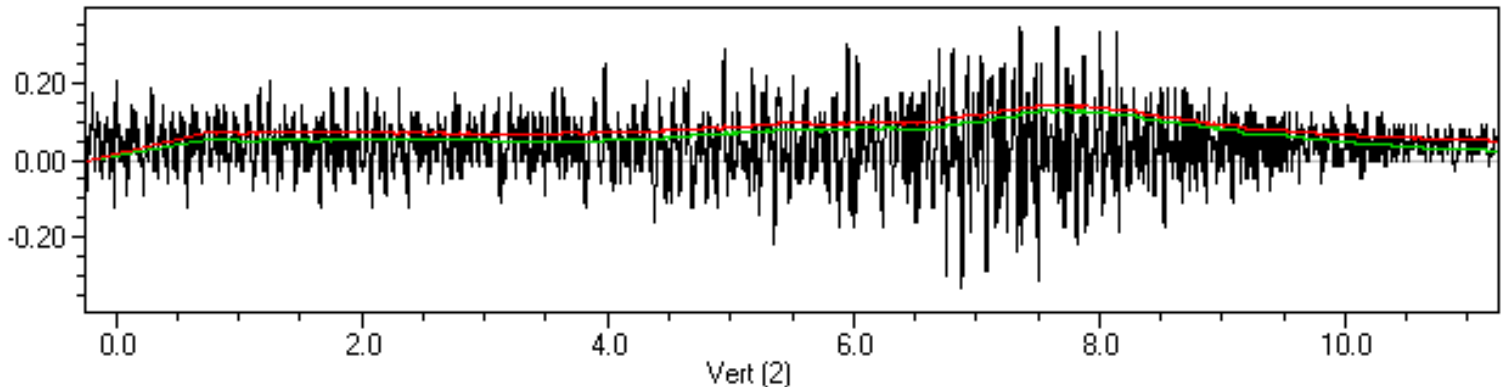
Record Time: 11.25 sec

Sample Rate: 1024 sps

Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.397	0.206	0.349	mm/s	
ZC Freq	22	20	20	Hz	
Time of Peak	7.307	7.389	7.359	Sec	
Peak Acceleration	0.00829	0.00663	0.00829	g	
Peak Displacement	0.00285	0.00205	0.00419	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,09	0,13		0,19
RMS (1s)	0,13	0,09	0,14		0,21

Long (1)





Event Date: January 5, 2007

Event Time: 20:34:27

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHKM.HF0

Trigger: Tran

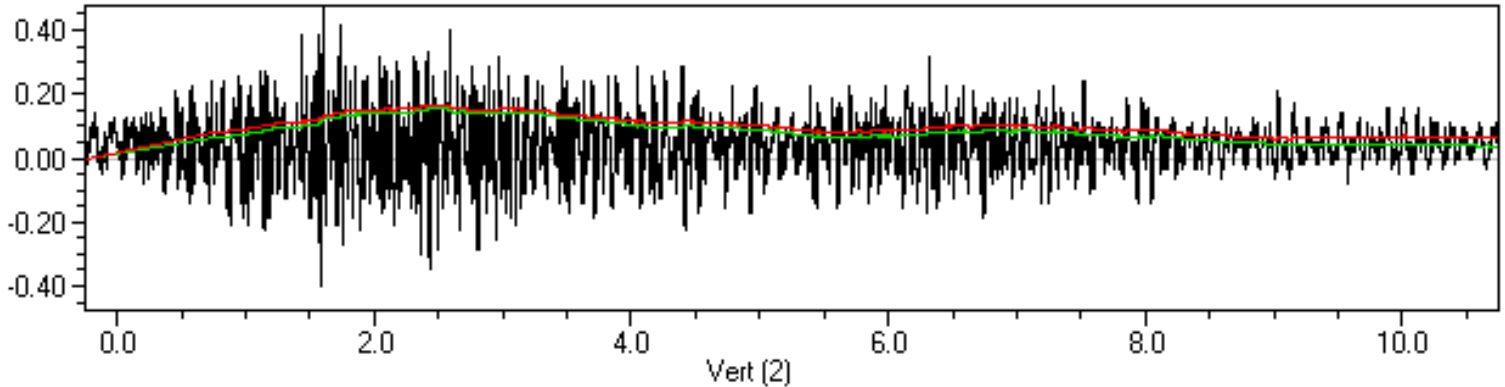
Record Time: 10.75 sec

Sample Rate: 1024 sps

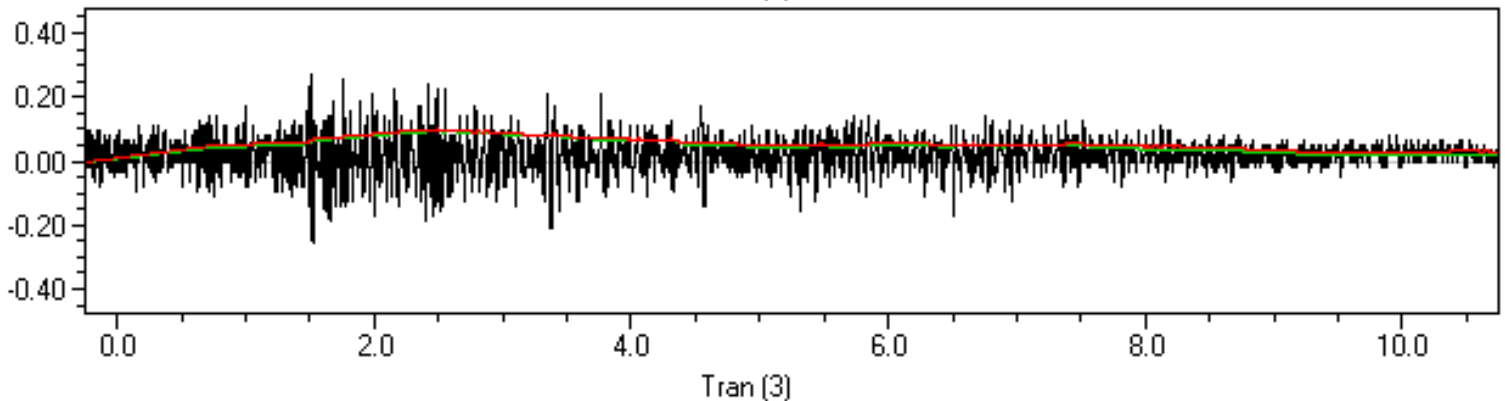
Calibration: September 8, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.429	0.270	0.476	mm/s	
ZC Freq	32	30	24	Hz	
Time of Peak	2.447	1.503	1.601	Sec	
Peak Acceleration	0.00994	0.00663	0.00994	g	
Peak Displacement	0.00307	0.00181	0.00355	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,10	0,16		0,24
RMS (1s)	0,17	0,10	0,17		0,25

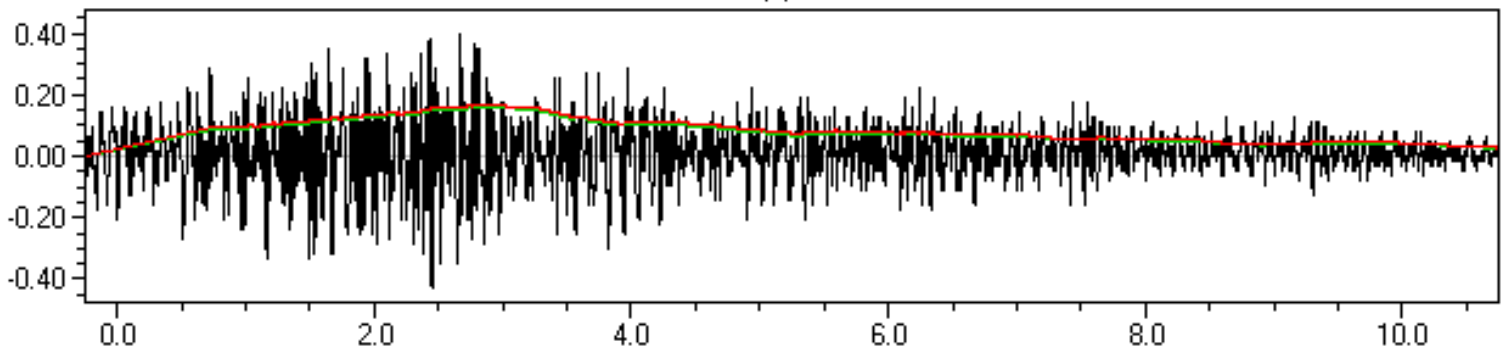
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 06:15:49

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHLD.ED0

Trigger: Tran

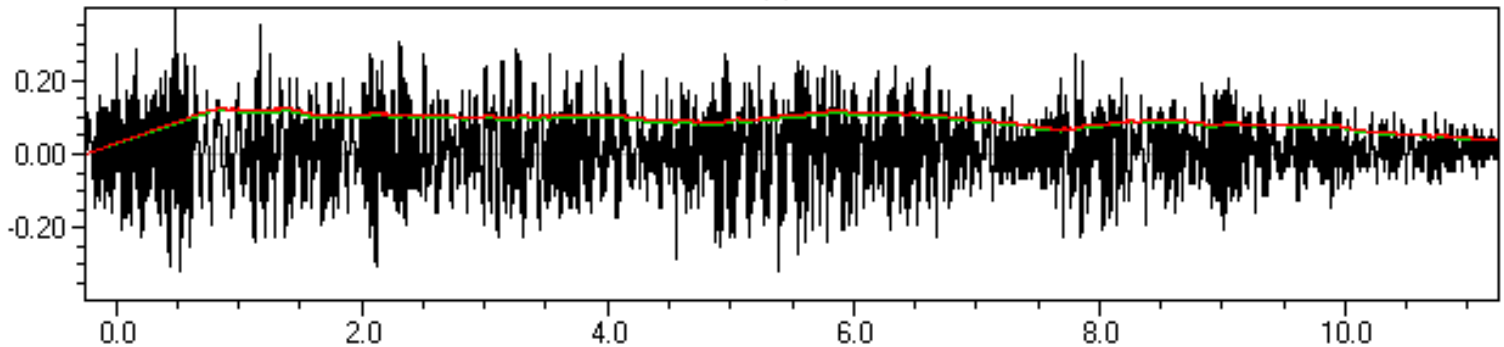
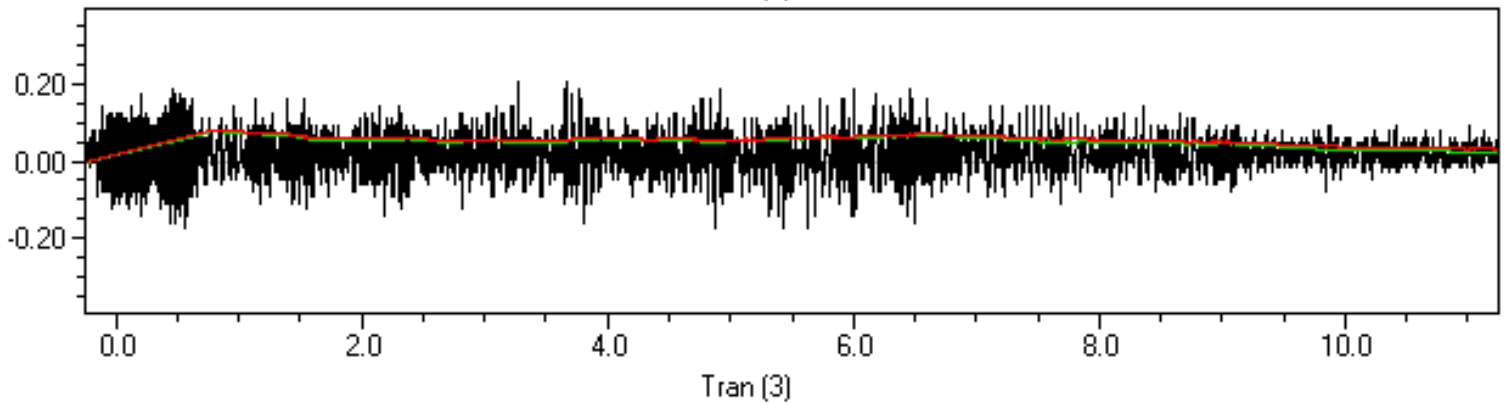
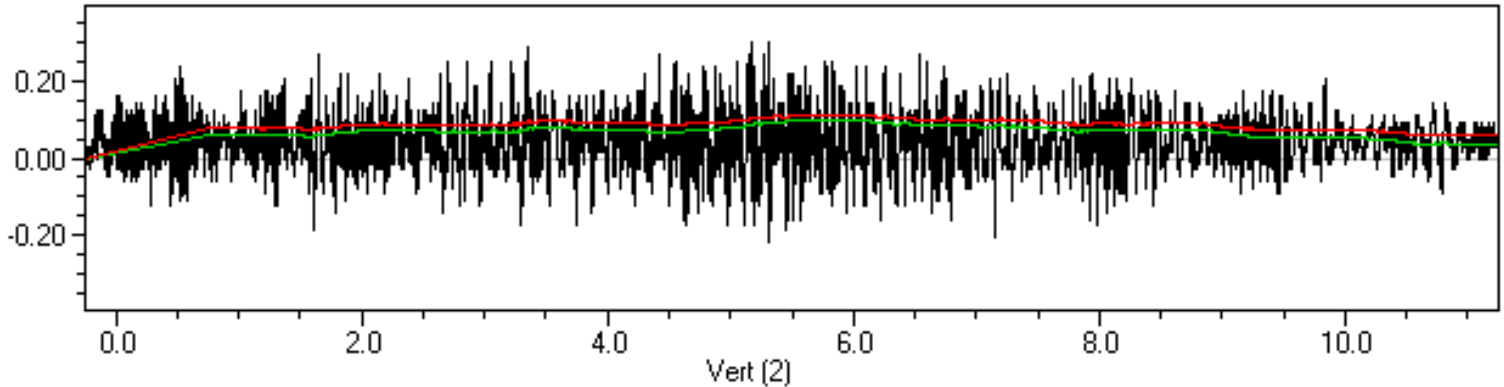
Record Time: 11.25 sec

Sample Rate: 1024 sps

Calibration: September 8, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.397	0.206	0.302	mm/s	
ZC Freq	27	30	51	Hz	
Time of Peak	0.476	3.277	5.178	Sec	
Peak Acceleration	0.00994	0.00829	0.0133	g	
Peak Displacement	0.00257	0.00140	0.00312	mm	rms of magnitude
RMS (1s fw 5.6)	0,12	0,08	0,10		0,16
RMS (1s)	0,12	0,08	0,11		0,18

Long (1)





Event Date: January 6, 2007

Event Time: 09:02:35

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHLL.4B0

Trigger: Tran

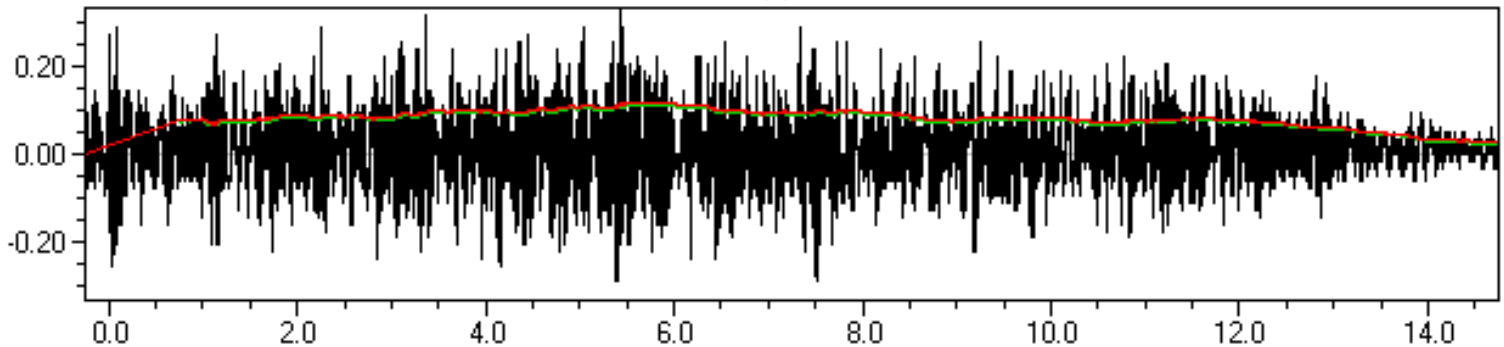
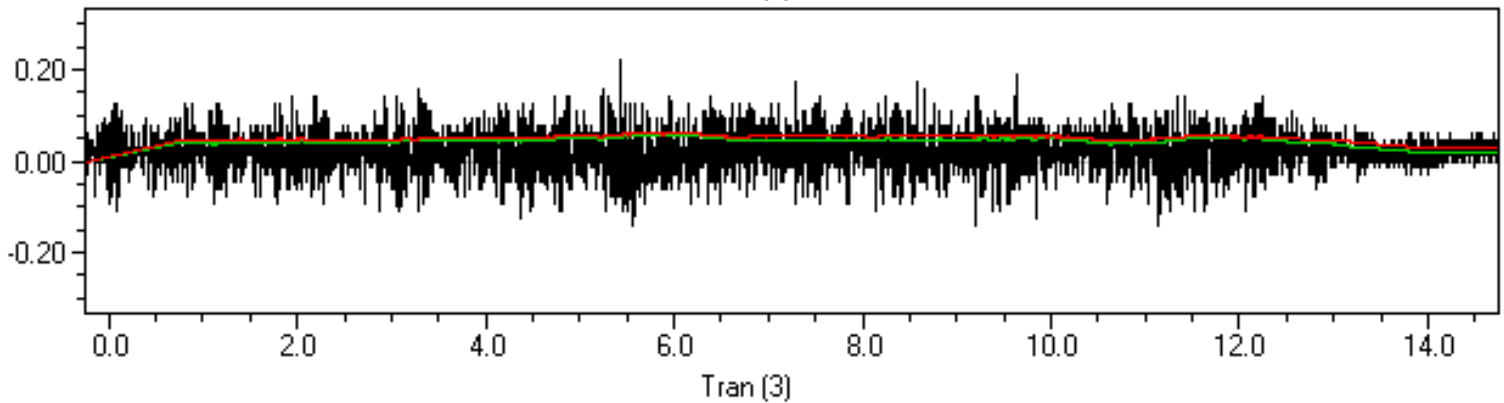
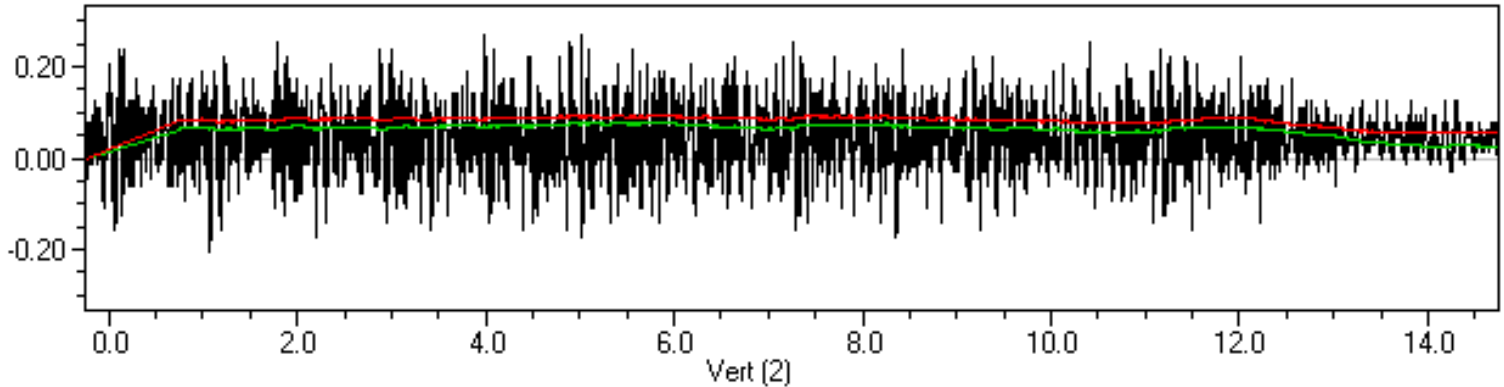
Record Time: 14.75 sec

Sample Rate: 1024 sps

Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.333	0.222	0.270	mm/s	
ZC Freq	30	30	22	Hz	
Time of Peak	5.436	5.426	3.982	Sec	
Peak Acceleration	0.00829	0.00663	0.00663	g	
Peak Displacement	0.00206	0.00152	0.00395	mm	rms of magnitude
RMS (1s fw 5.6)	0,11	0,06	0,08		0,15
RMS (1s)	0,12	0,06	0,09		0,16

Long (1)





Event Date: January 6, 2007

Event Time: 09:31:08

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHLM.FW0

Trigger: Tran

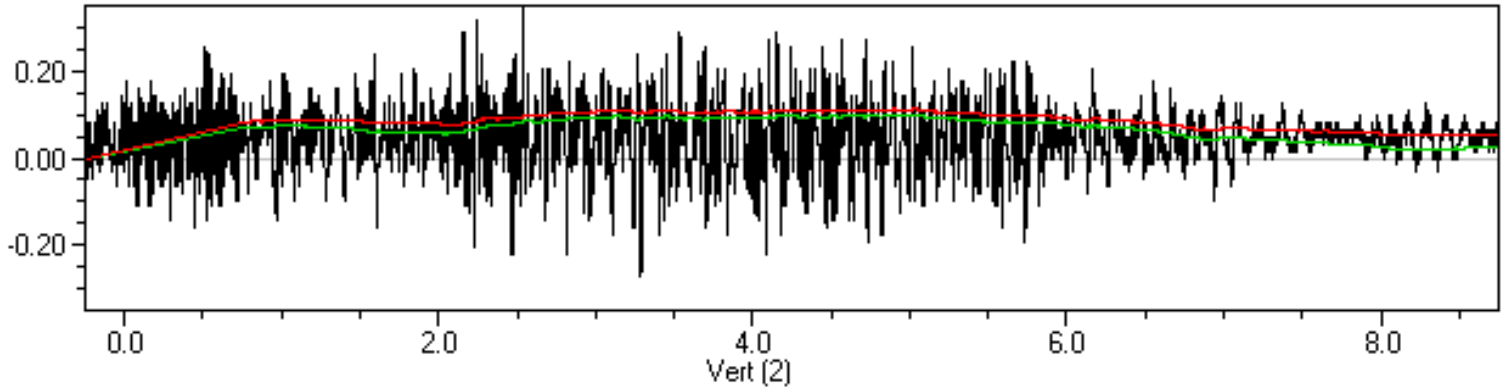
Record Time: 8.75 sec

Sample Rate: 1024 sps

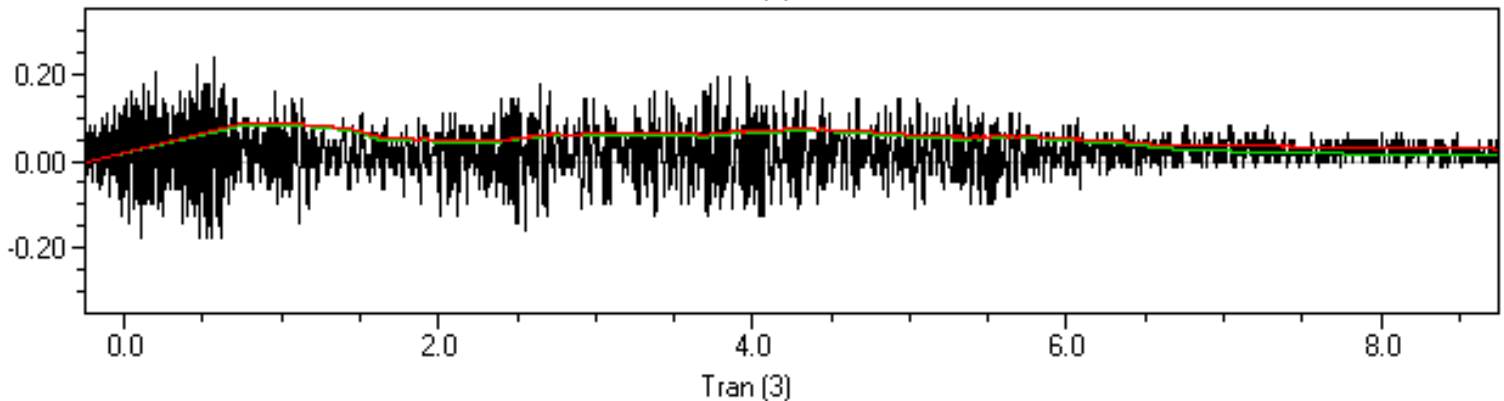
Calibration: September 8, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.349	0.238	0.349	mm/s	
ZC Freq	34	30	24	Hz	
Time of Peak	0.529	0.569	2.536	Sec	
Peak Acceleration	0.00829	0.00829	0.00829	g	
Peak Displacement	0.00217	0.00122	0.00907	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,08	0,10		0,17
RMS (1s)	0,14	0,09	0,11		0,18

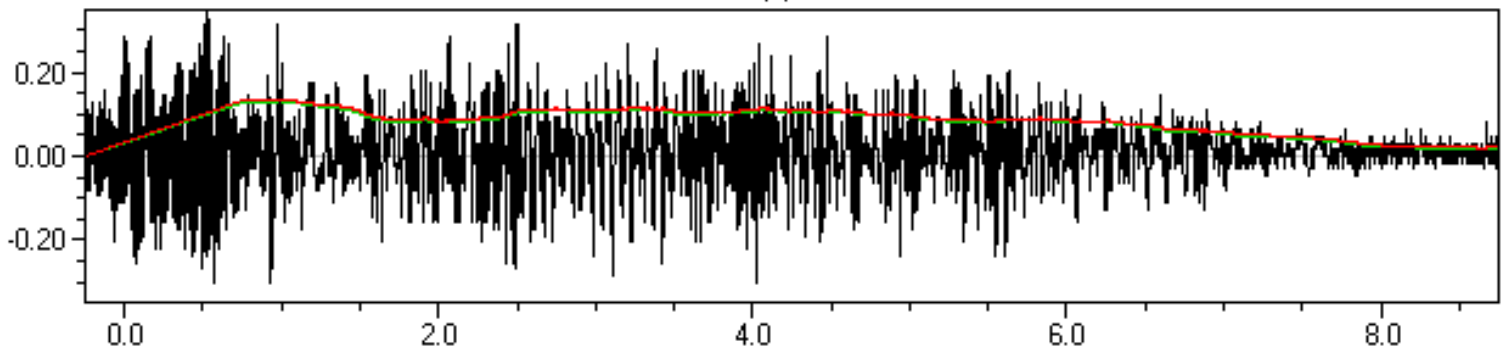
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 10:35:19

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHLP.EV0

Trigger: Tran

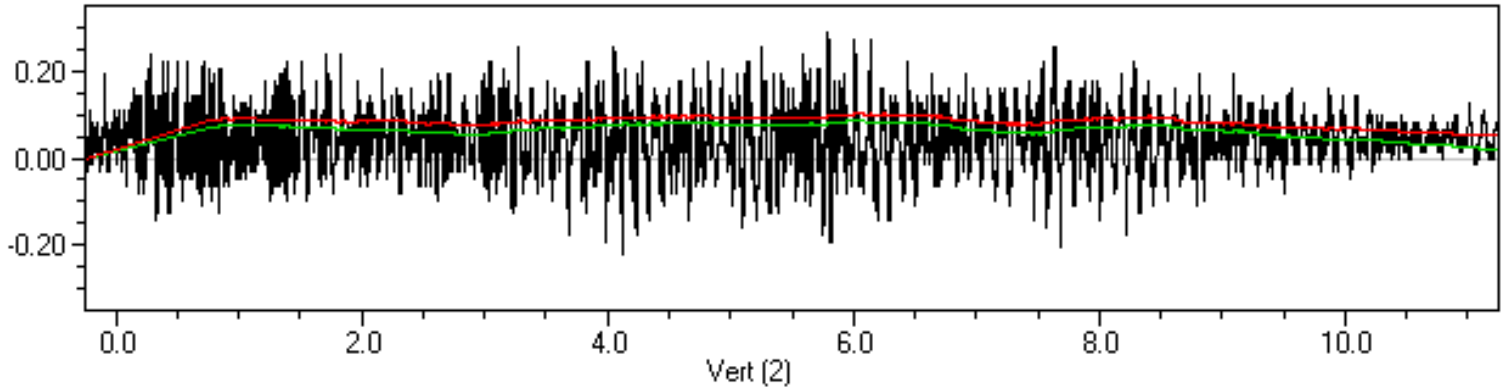
Record Time: 11.25 sec

Sample Rate: 1024 sps

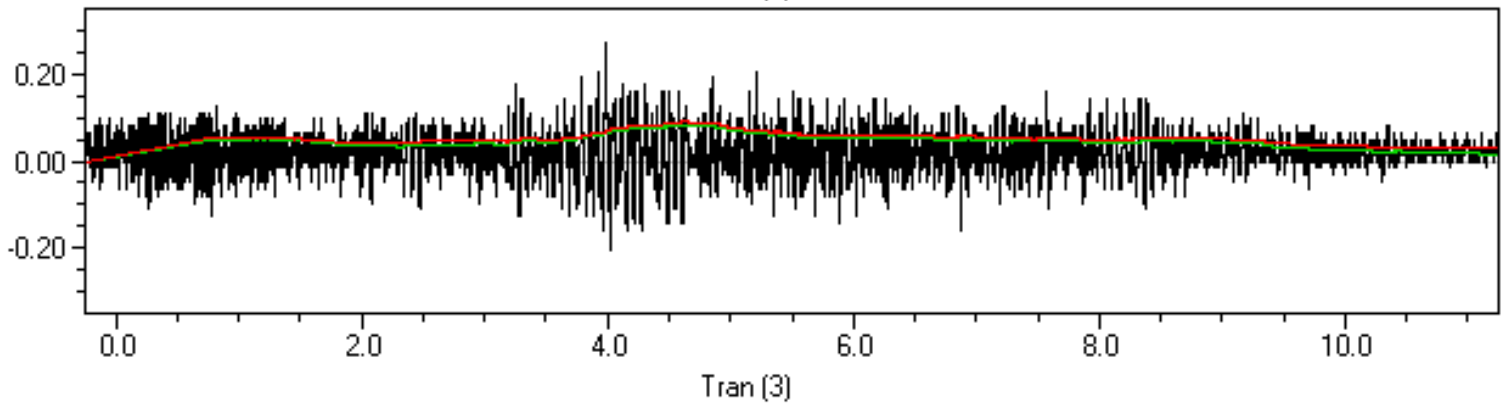
Calibration: September 8, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.349	0.270	0.286	mm/s	
ZC Freq	30	14	15	Hz	
Time of Peak	0.511	3.979	5.793	Sec	
Peak Acceleration	0.00829	0.00829	0.00829	g	
Peak Displacement	0.00288	0.00222	0.00371	mm	rms of magnitude
RMS (1s fw 5.6)	0,14	0,08	0,09		0,17
RMS (1s)	0,15	0,09	0,10		0,18

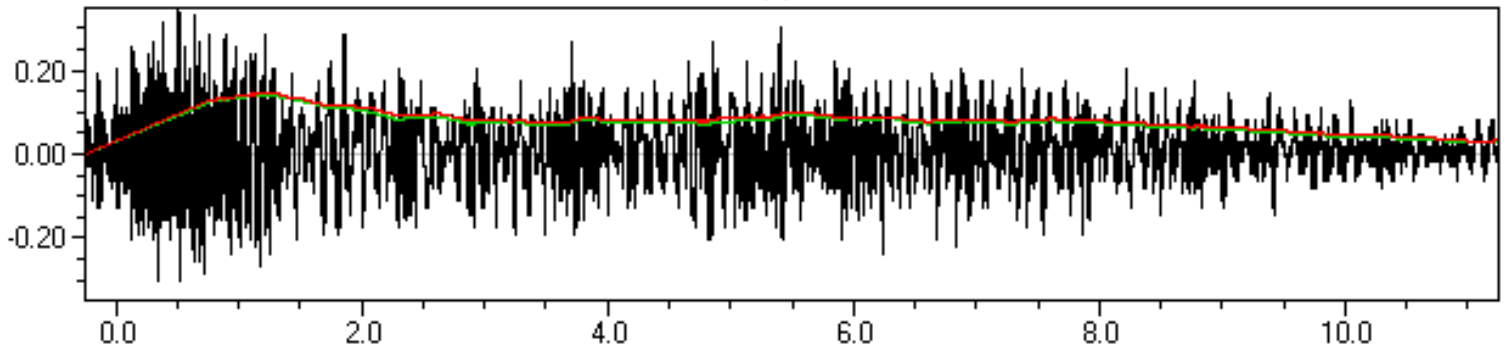
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 12:30:34

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHLU.QY0

Trigger: Long

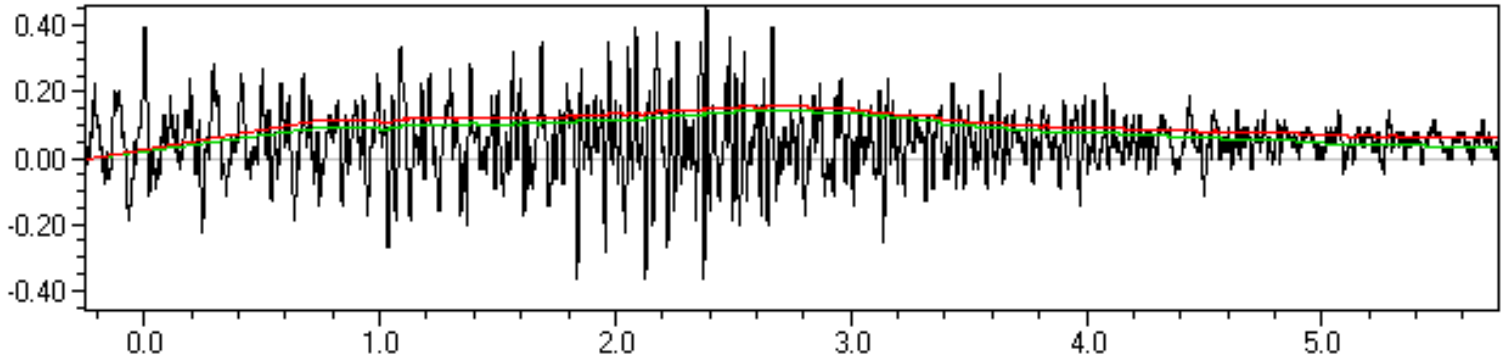
Record Time: 5.75 sec

Sample Rate: 1024 sps

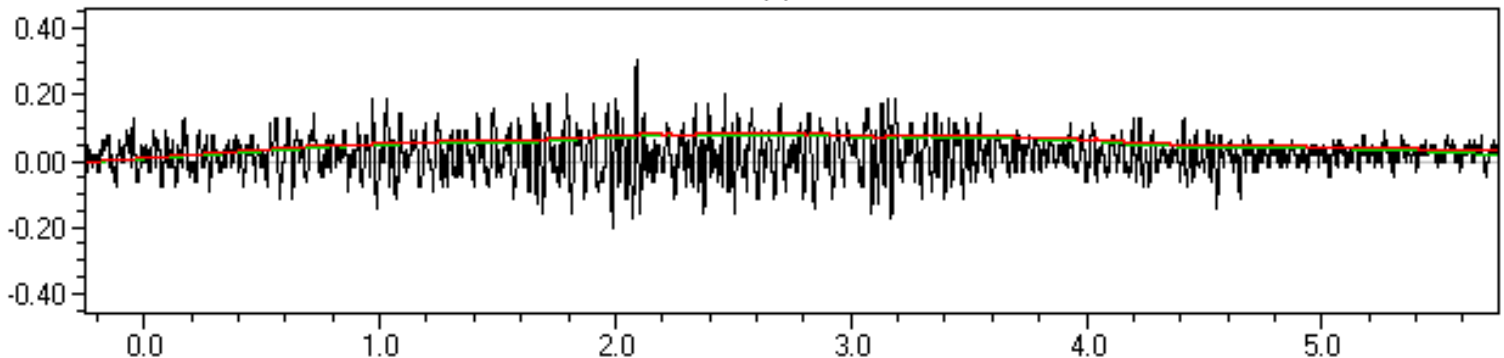
Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.444	0.302	0.460	mm/s	
ZC Freq	27	30	37	Hz	
Time of Peak	1.927	2.090	2.387	Sec	
Peak Acceleration	0.00994	0.00663	0.0116	g	
Peak Displacement	0.00267	0.00163	0.00447	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,08	0,15		0,23
RMS (1s)	0,16	0,09	0,16		0,24

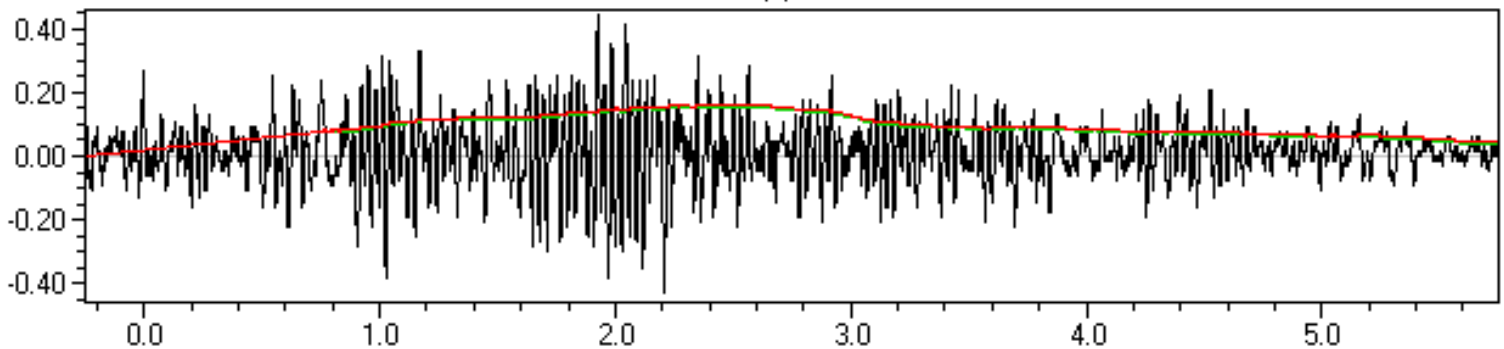
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 18:33:14

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHMB.JE0

Trigger: Vert

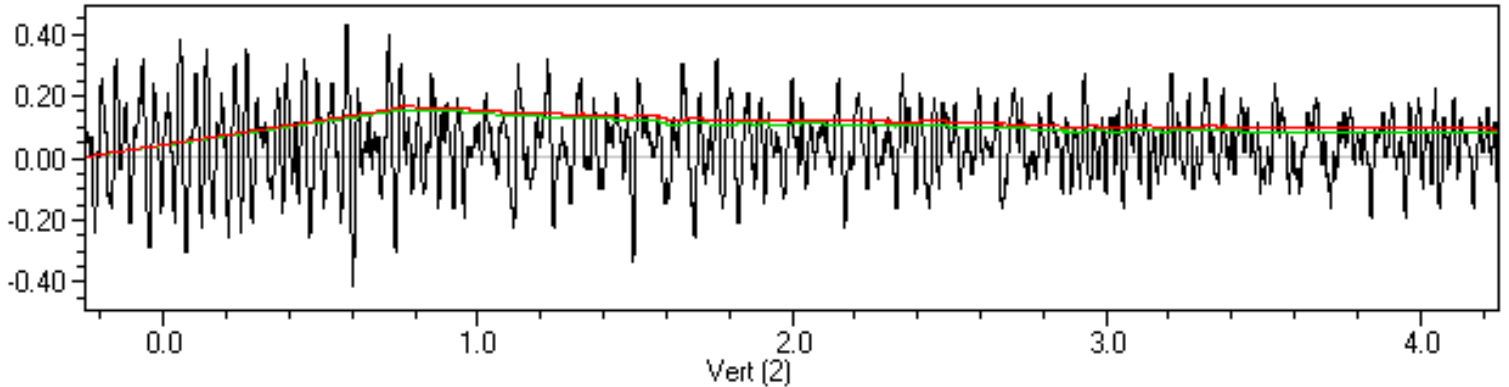
Record Time: 4.25 sec

Sample Rate: 1024 sps

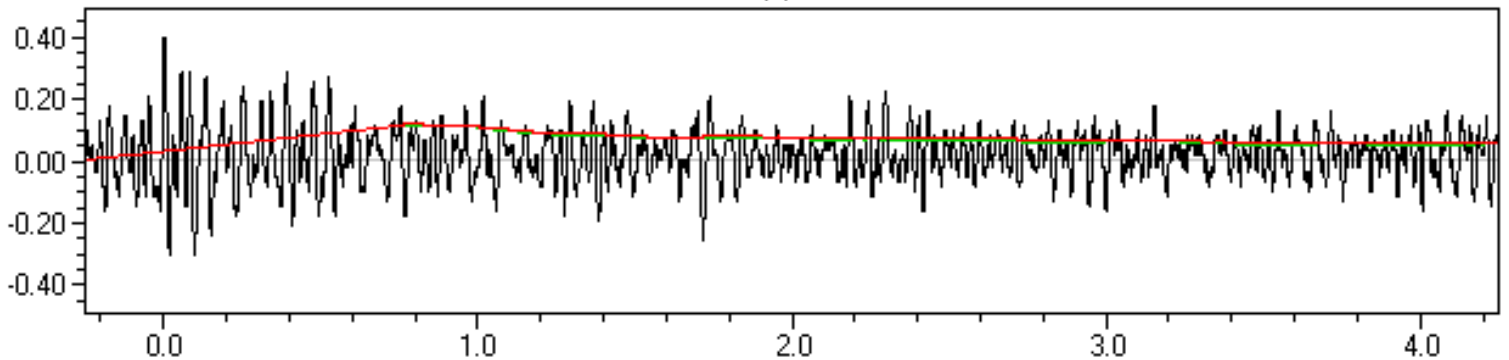
Calibration: September 8, 2006 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.492	0.397	0.429	mm/s	
ZC Freq	26	28	22	Hz	
Time of Peak	0.093	0.000	0.580	Sec	
Peak Acceleration	0.00994	0.00829	0.00994	g	
Peak Displacement	0.00330	0.00224	0.00348	mm	rms of magnitude
RMS (1s fw 5.6)	0,15	0,11	0,16		0,24
RMS (1s)	0,16	0,12	0,17		0,25

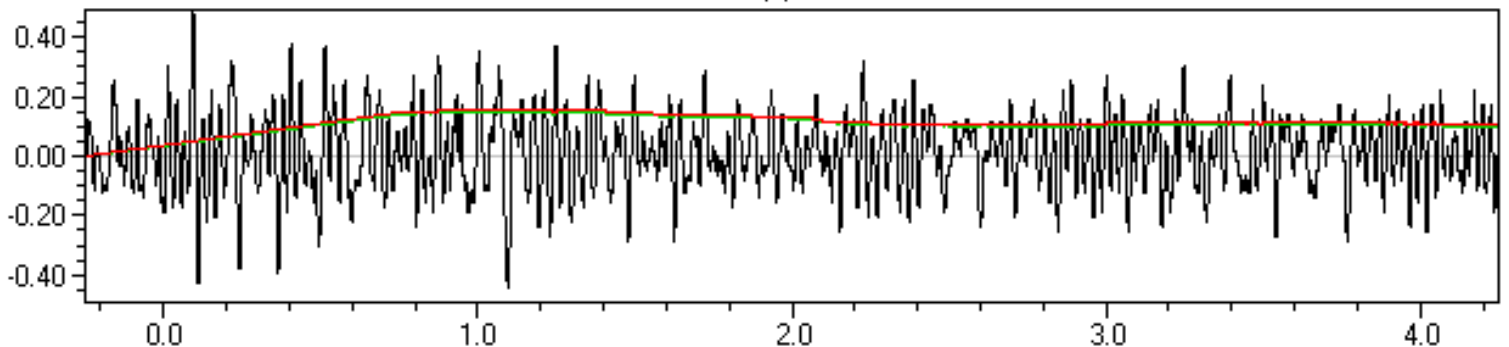
Long (1)



Vert (2)



Tran (3)





Event Date: January 7, 2007

Event Time: 17:42:04

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHO3.U40

Trigger: Long

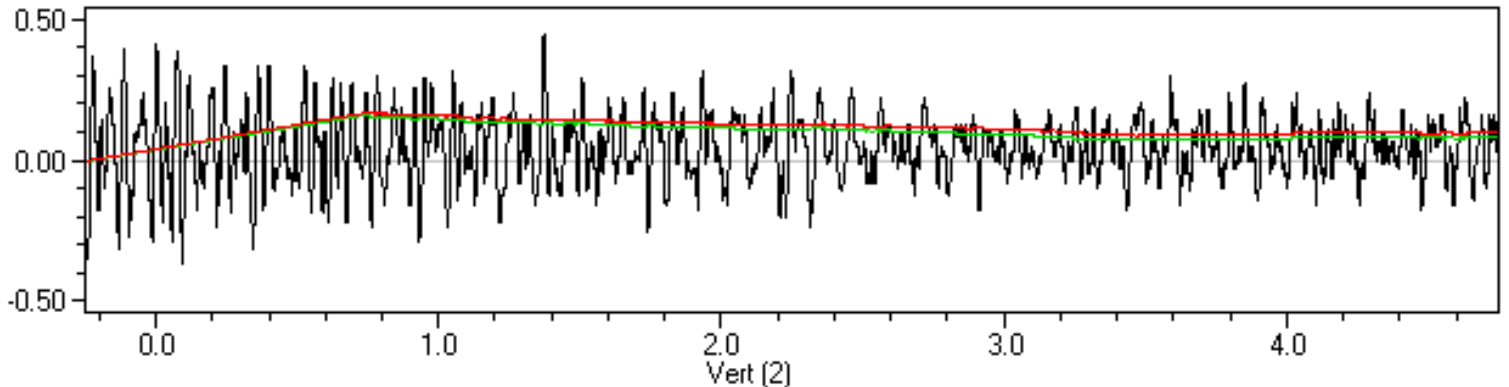
Record Time: 4.75 sec

Sample Rate: 1024 sps

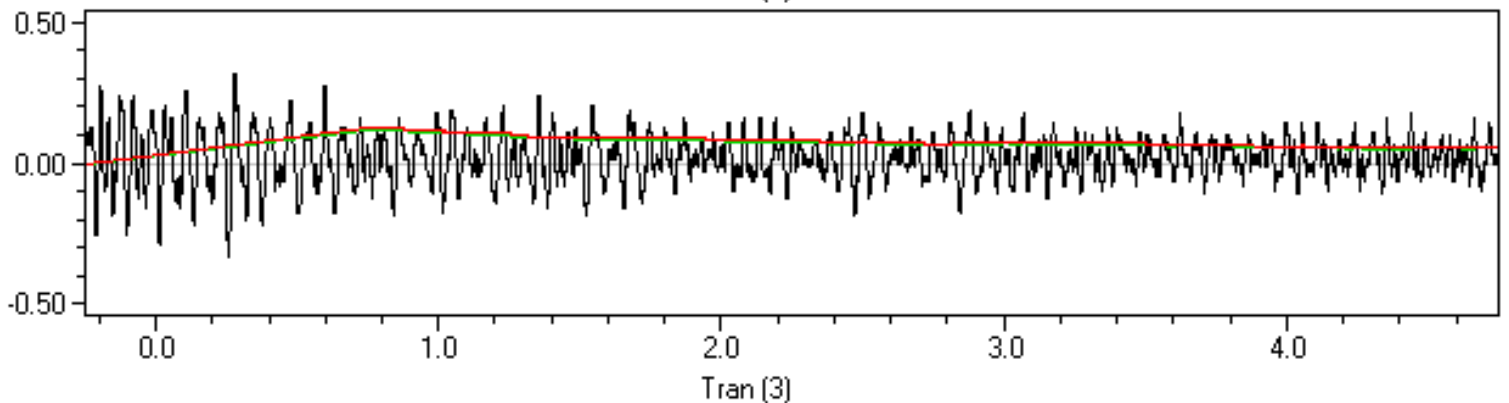
Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.540	0.333	0.444	mm/s	
ZC Freq	23	21	20	Hz	
Time of Peak	0.751	0.256	1.372	Sec	
Peak Acceleration	0.00994	0.00994	0.00994	g	
Peak Displacement	0.00345	0.00249	0.00450	mm	rms of magnitude
RMS (1s fw 5.6)	0,15	0,12	0,16		0,25
RMS (1s)	0,16	0,13	0,17		0,26

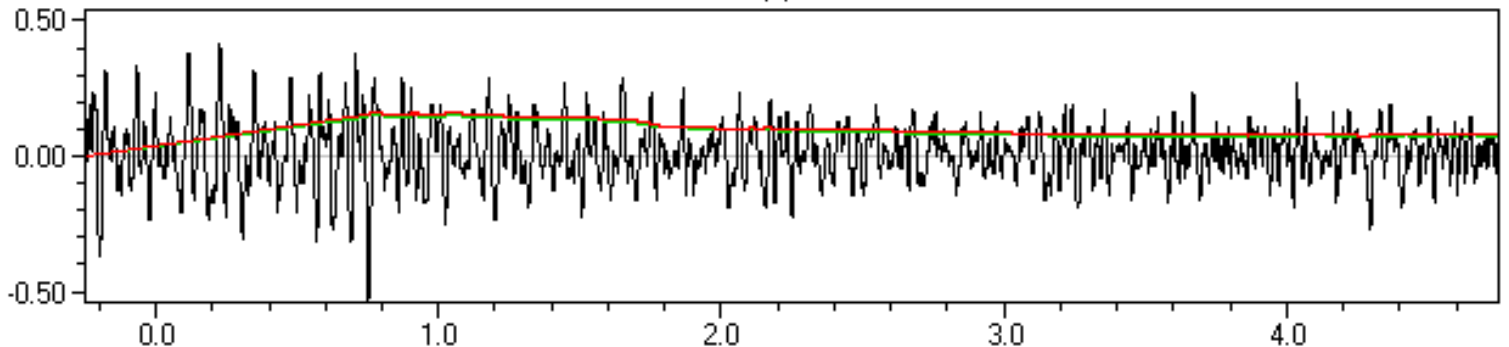
Long (1)



Vert (2)



Tran (3)





Event Date: January 7, 2007

Event Time: 21:28:22

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHOE.BA0

Trigger: Long

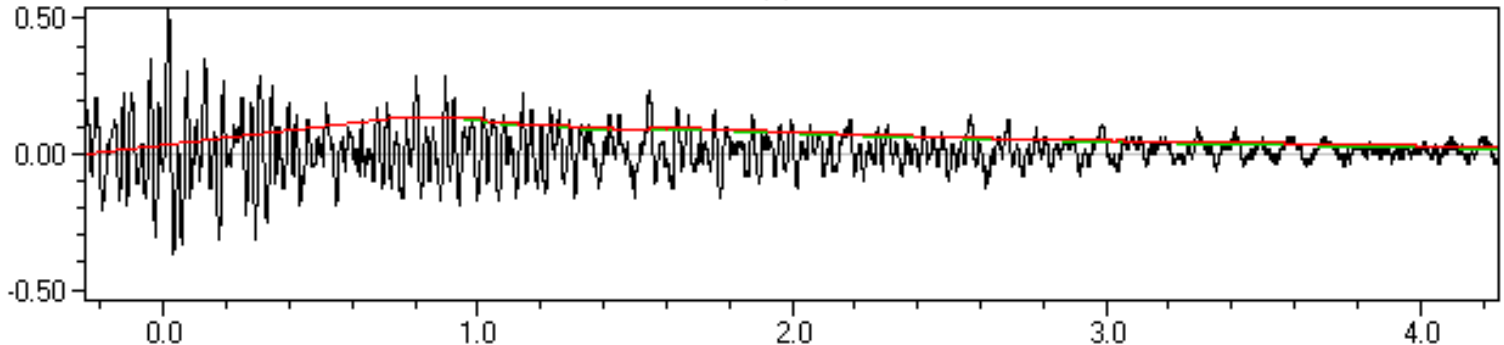
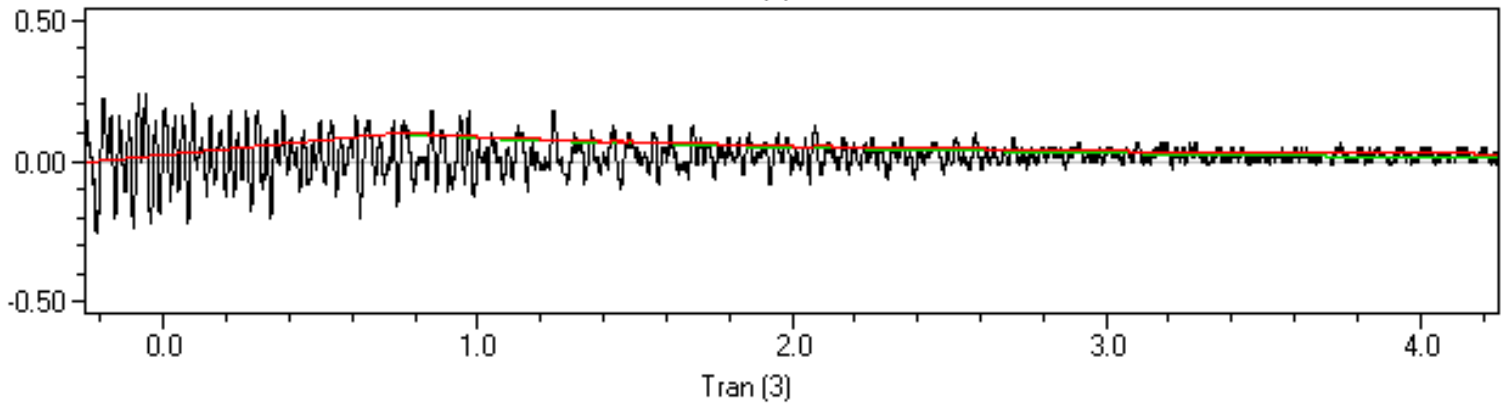
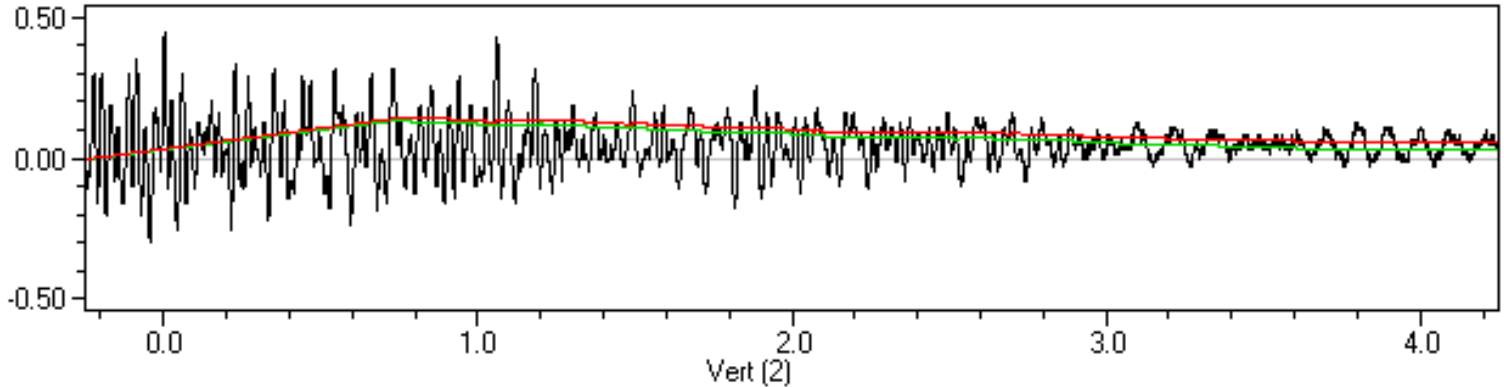
Record Time: 4.25 sec

Sample Rate: 1024 sps

Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.540	0.254	0.444	mm/s	
ZC Freq	23	19	28	Hz	
Time of Peak	0.013	-0.216	0.001	Sec	
Peak Acceleration	0.0116	0.00829	0.00829	g	
Peak Displacement	0.00334	0.00196	0.00367	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,10	0,13		0,21
RMS (1s)	0,14	0,10	0,14		0,22

Long (1)





Event Date: January 8, 2007

Event Time: 17:52:51

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHPZ.030

Trigger: Long

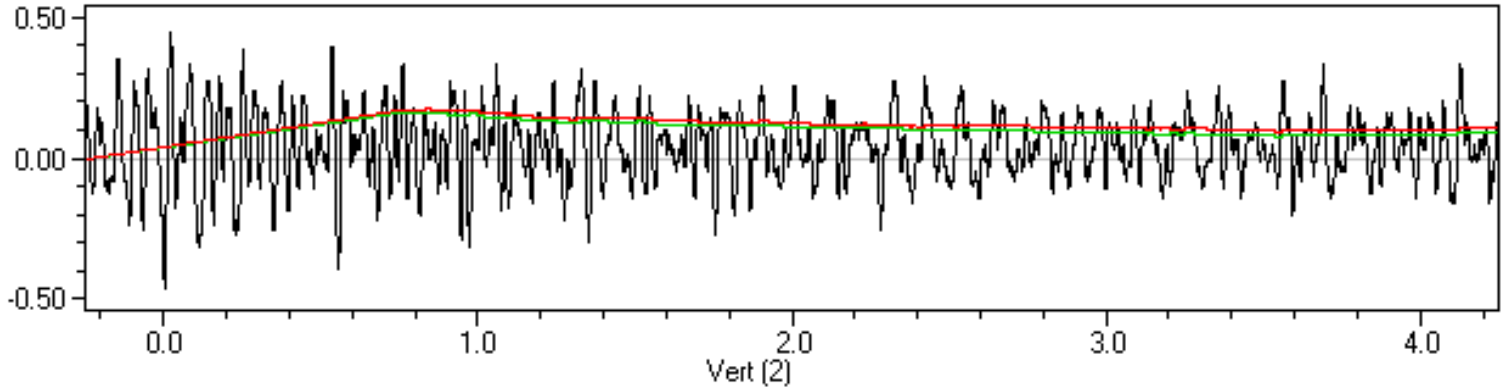
Record Time: 4.25 sec

Sample Rate: 1024 sps

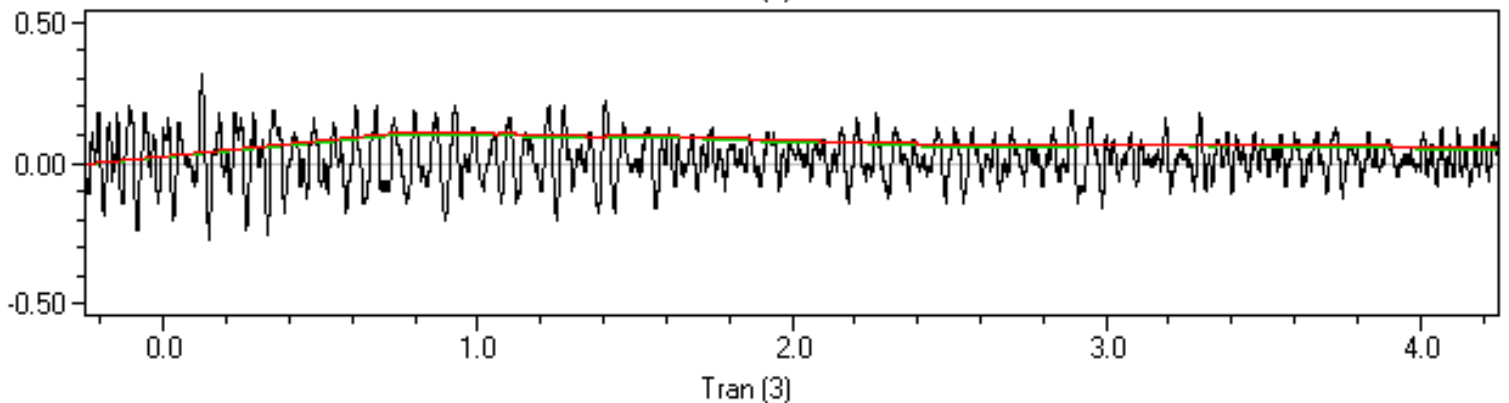
Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.540	0.317	0.460	mm/s	
ZC Freq	22	21	19	Hz	
Time of Peak	0.779	0.122	0.002	Sec	
Peak Acceleration	0.0116	0.00663	0.0116	g	
Peak Displacement	0.00369	0.00243	0.00437	mm	rms of magnitude
RMS (1s fw 5.6)	0,16	0,10	0,16		0,25
RMS (1s)	0,17	0,11	0,17		0,26

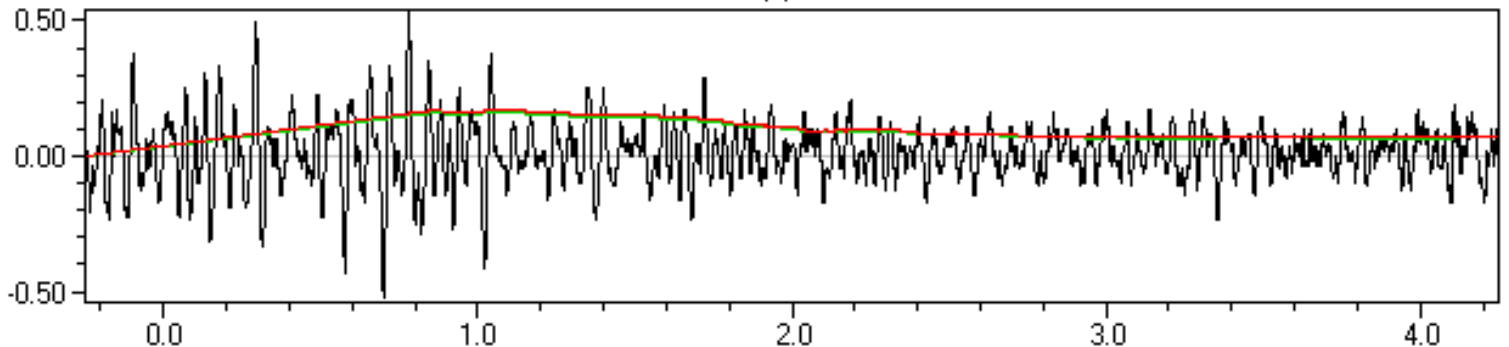
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 14:33:00

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHRK.F00

Trigger: Tran

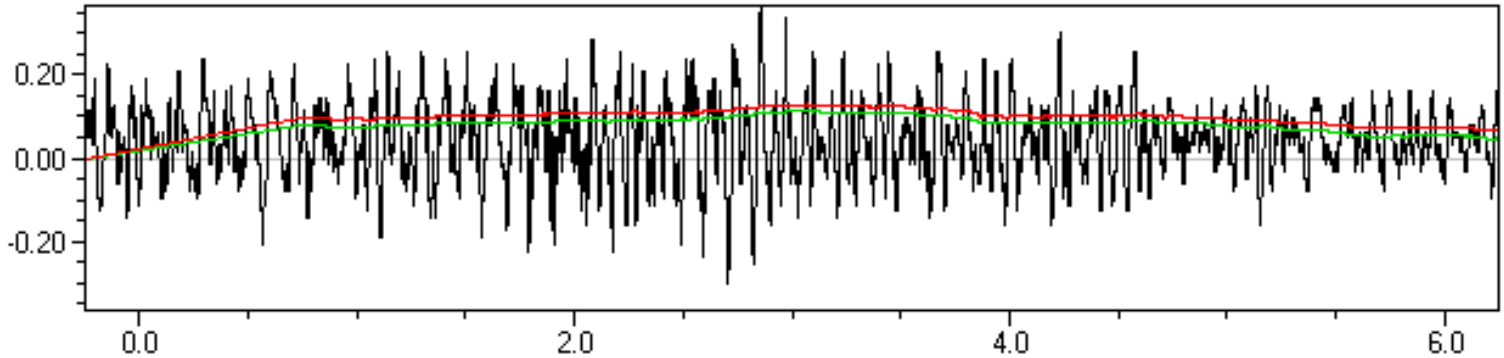
Record Time: 6.25 sec

Sample Rate: 1024 sps

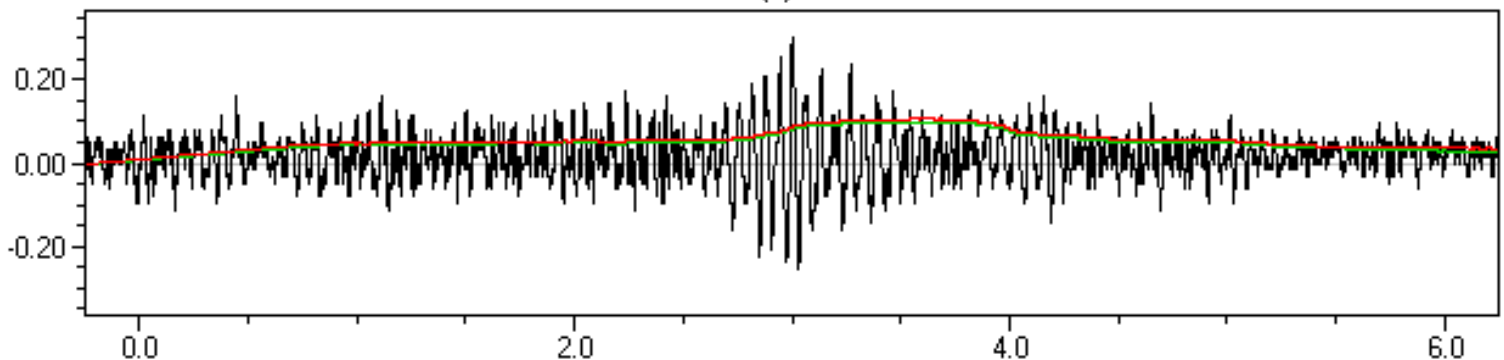
Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.302	0.302	0.365	mm/s	
ZC Freq	18	18	12	Hz	
Time of Peak	0.000	3.000	2.856	Sec	
Peak Acceleration	0.00829	0.00663	0.00663	g	
Peak Displacement	0.00345	0.00266	0.00491	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,10	0,11		0,17
RMS (1s)	0,10	0,11	0,13		0,19

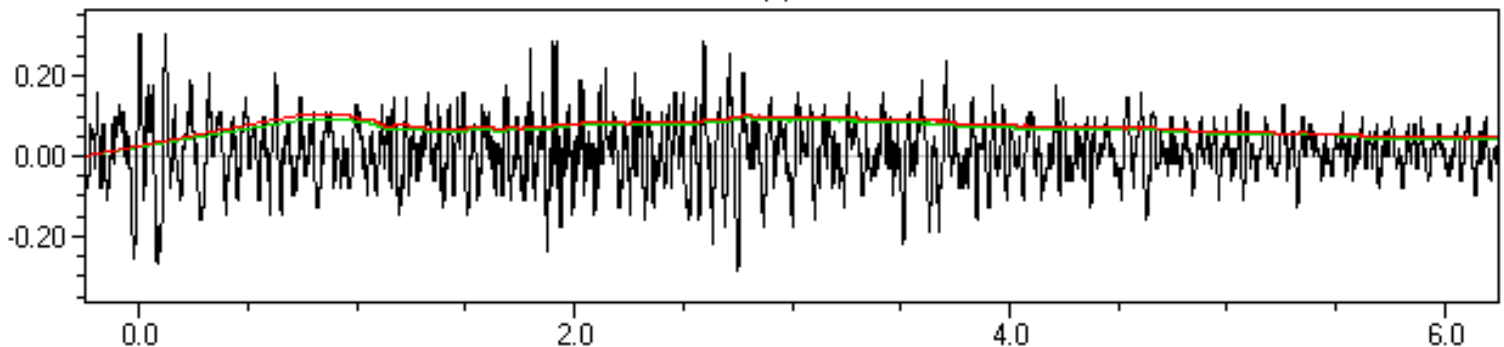
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 05:39:12

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHSQ.DC0

Trigger: Long

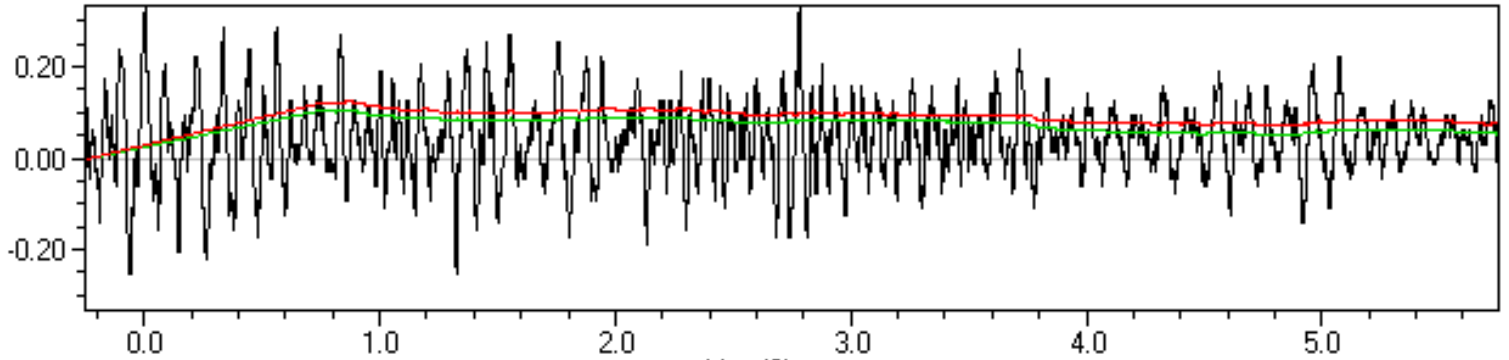
Record Time: 5.75 sec

Sample Rate: 1024 sps

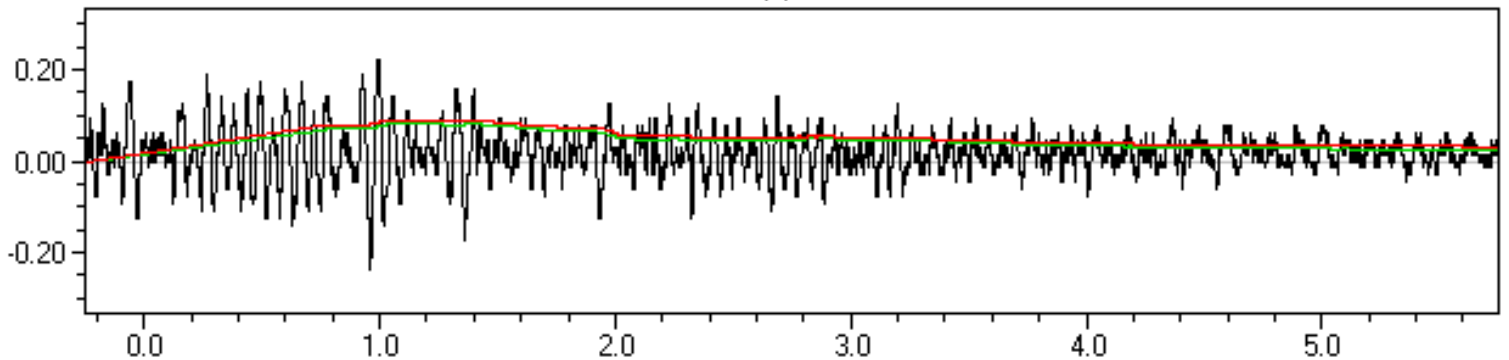
Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.238	0.238	0.333	mm/s	
ZC Freq	22	17	11	Hz	
Time of Peak	1.395	0.959	0.003	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00331	0.00250	0.00445	mm	rms of magnitude
RMS (1s fw 5.6)	0,08	0,08	0,10		0,15
RMS (1s)	0,10	0,09	0,12		0,17

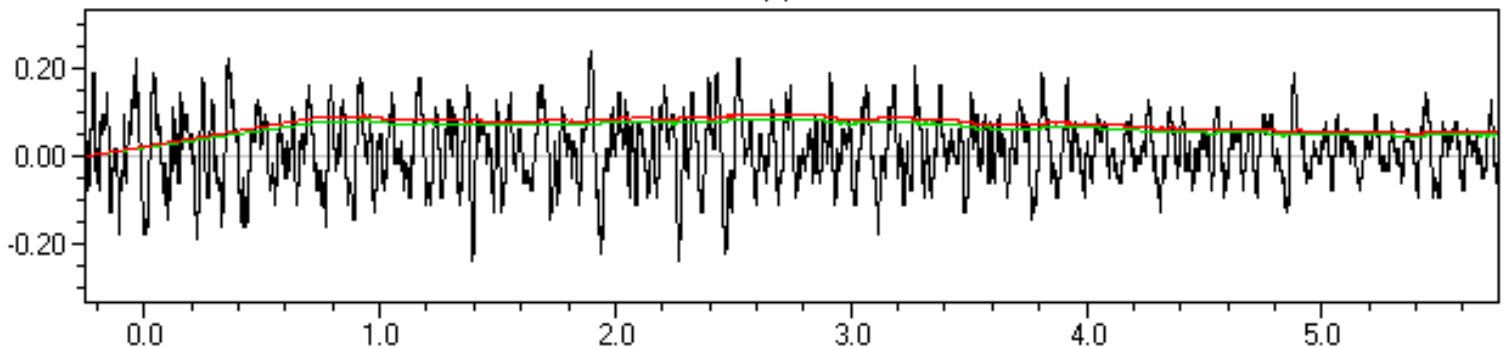
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 06:14:49

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE11618, V 8.01-8.0 MiniMate Plus

File Name: M618BHSS.0P0

Trigger: Tran

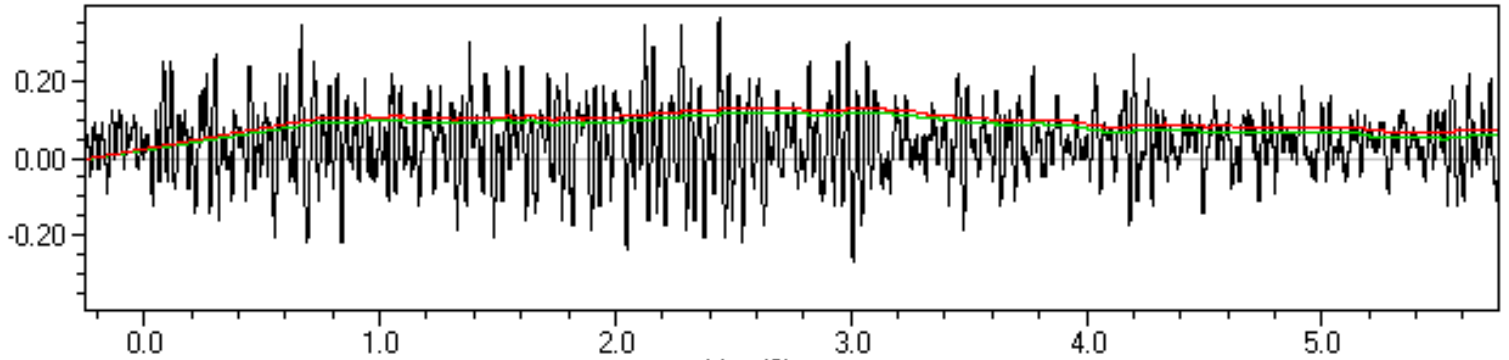
Record Time: 5.75 sec

Sample Rate: 1024 sps

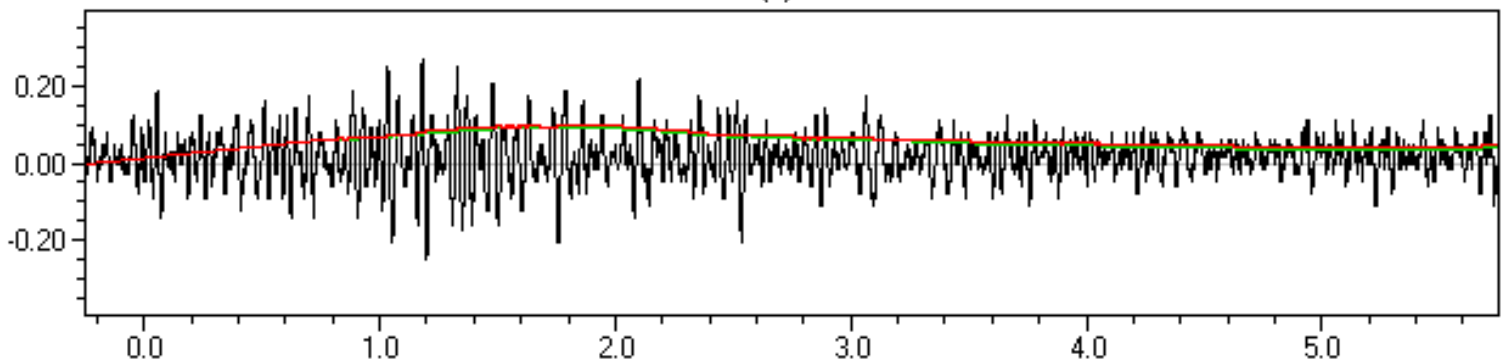
Calibration: September 8, 2006 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.397	0.270	0.365	mm/s	
ZC Freq	22	24	17	Hz	
Time of Peak	1.132	1.180	2.439	Sec	
Peak Acceleration	0.00829	0.00663	0.00663	g	
Peak Displacement	0.00329	0.00181	0.00310	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,10	0,12		0,19
RMS (1s)	0,13	0,10	0,13		0,20

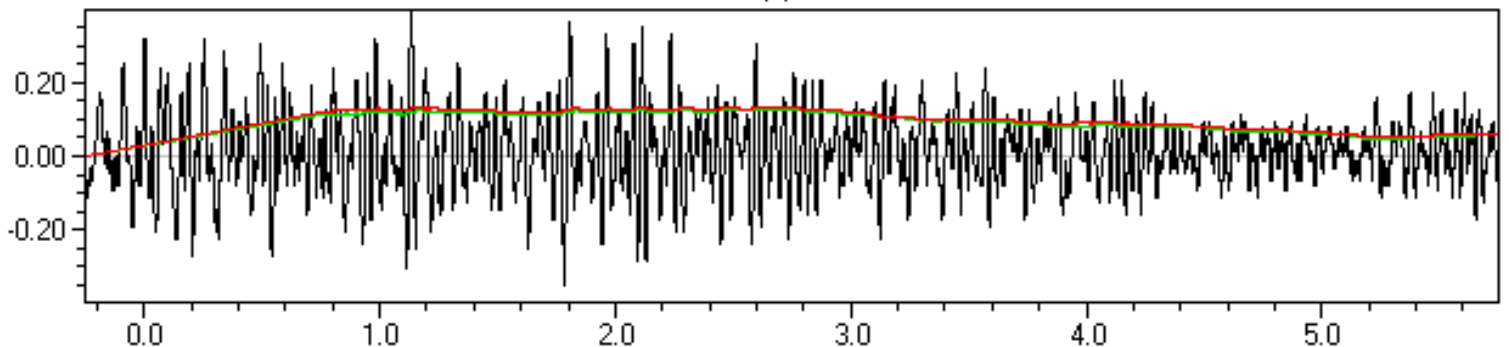
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 14:34:50

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHK5.U20

Trigger: Tran

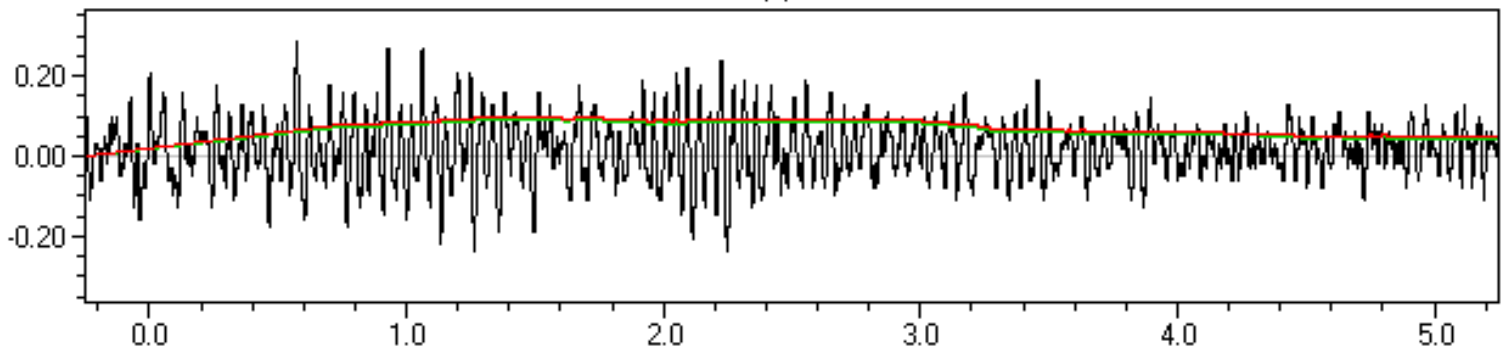
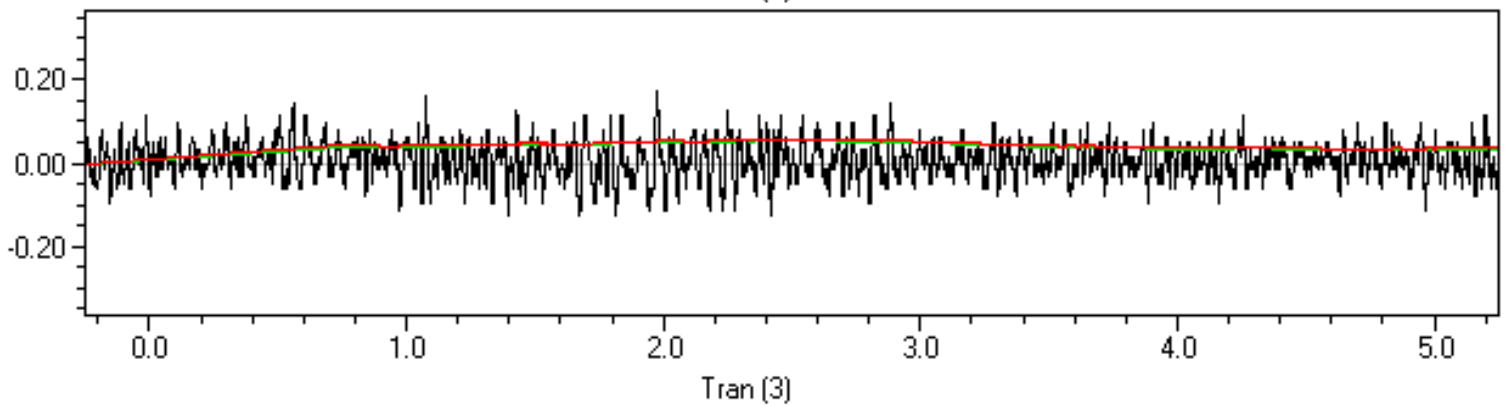
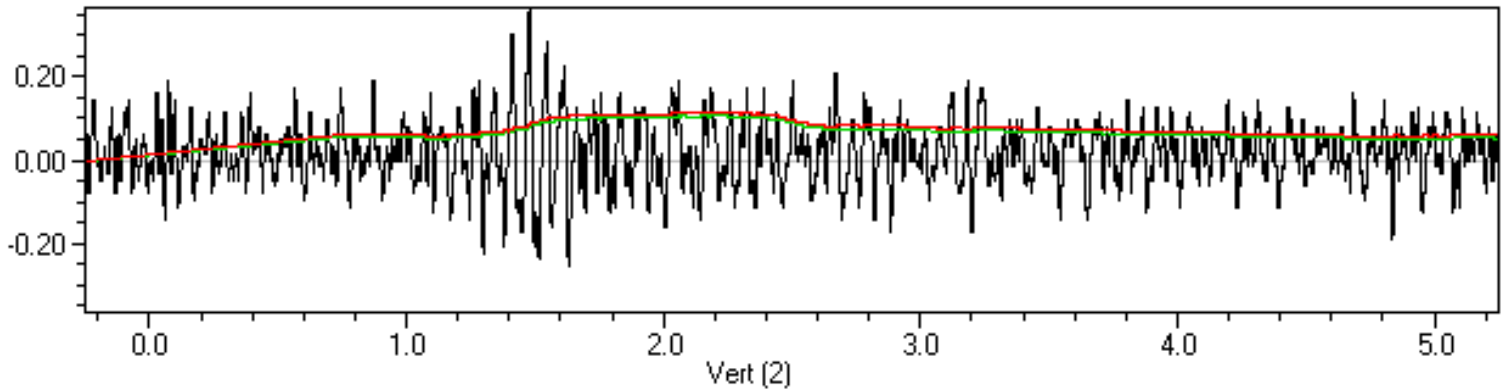
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.286	0.175	0.365	mm/s	
ZC Freq	21	22	18	Hz	
Time of Peak	0.572	1.975	1.478	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00198	0.00109	0.00305	mm	rms of magnitude
RMS (1s fw 5.6)	0,09	0,05	0,11		0,15
RMS (1s)	0,10	0,06	0,11		0,16

Long (1)





Event Date: January 5, 2007

Event Time: 18:30:43

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHKG.R70

Trigger: Tran

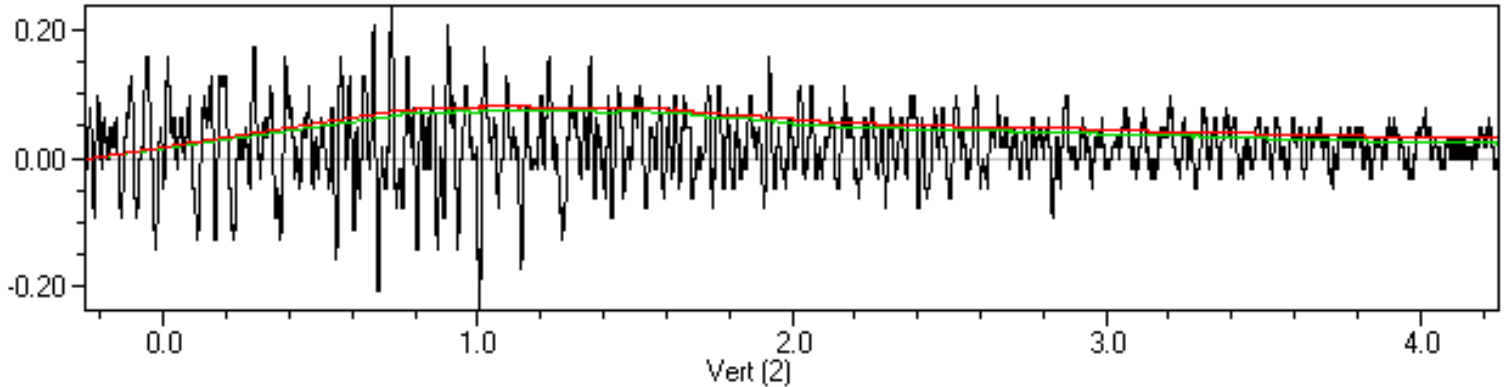
Record Time: 4.25 sec

Sample Rate: 1024 sps

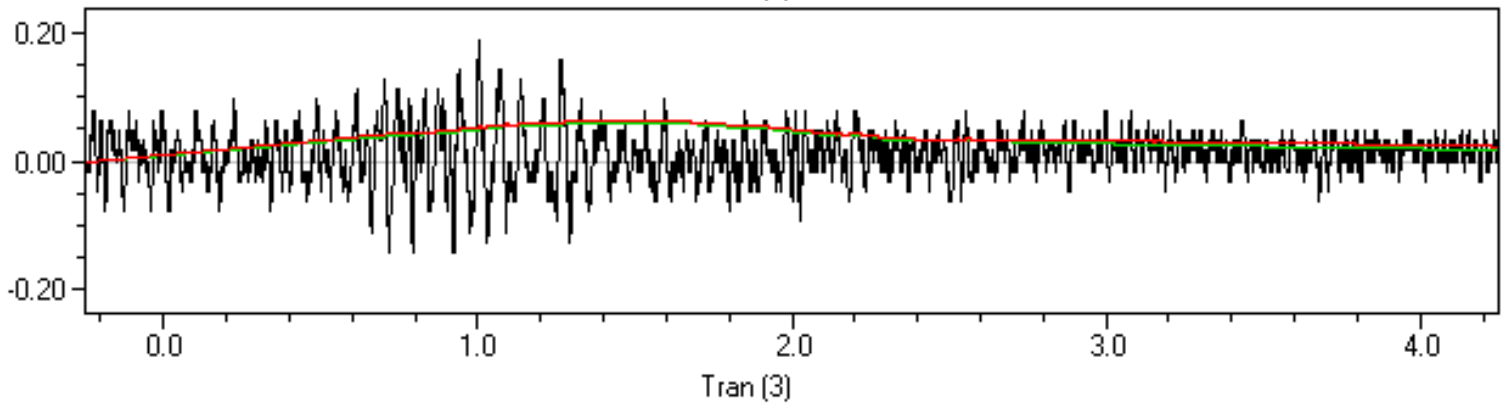
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.222	0.190	0.238	mm/s	
ZC Freq	20	21	24	Hz	
Time of Peak	0.002	1.003	0.724	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00180	0.00133	0.00164	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,06	0,08		0,11
RMS (1s)	0,07	0,06	0,08		0,12

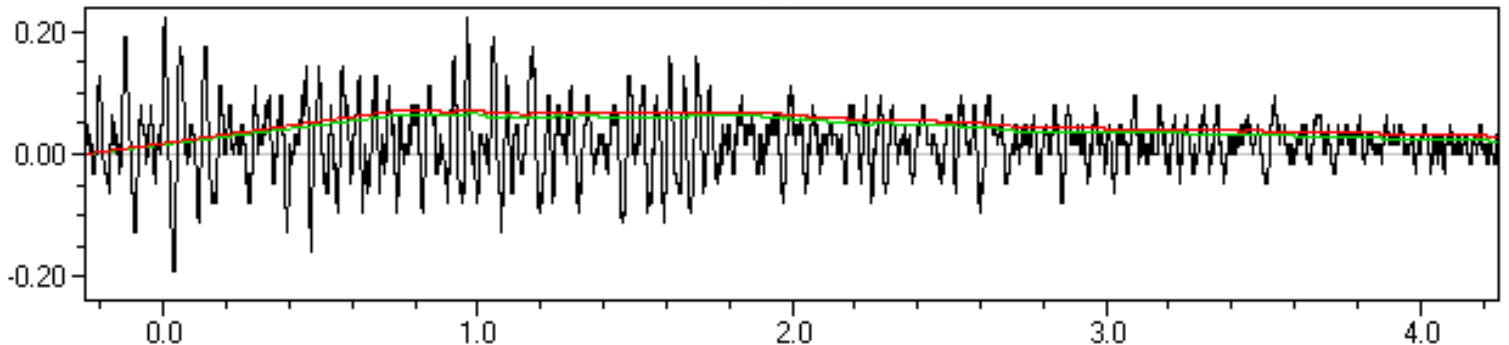
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 20:34:28

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHKM.HG0

Trigger: Tran

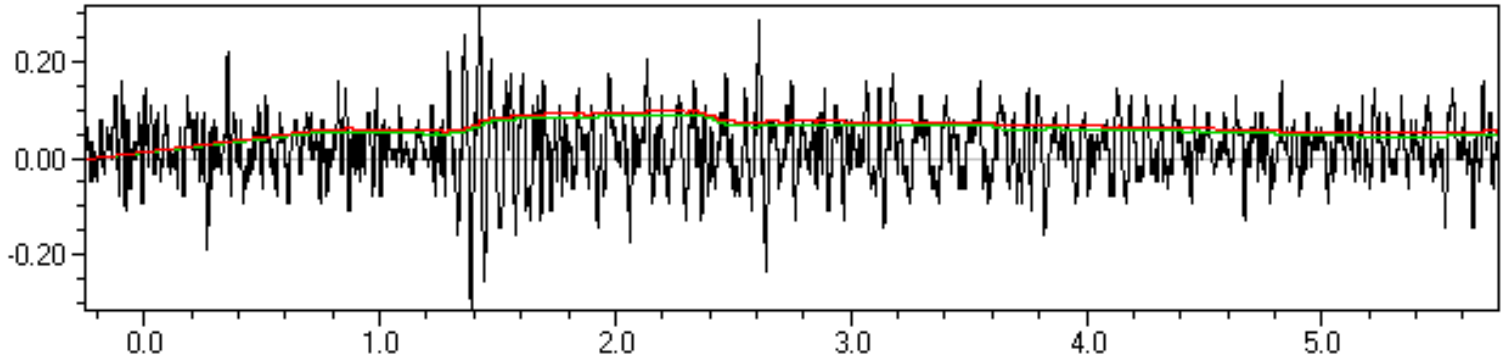
Record Time: 5.75 sec

Sample Rate: 1024 sps

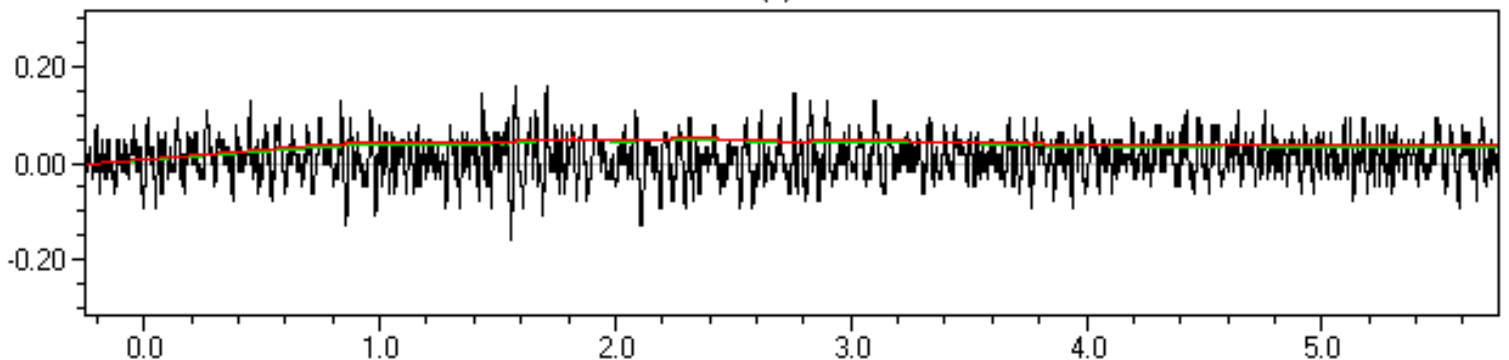
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.270	0.159	0.317	mm/s	
ZC Freq	20	28	24	Hz	
Time of Peak	1.262	1.557	1.388	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00215	0.00108	0.00265	mm	rms of magnitude
RMS (1s fw 5.6)	0,09	0,05	0,09		0,13
RMS (1s)	0,10	0,05	0,10		0,14

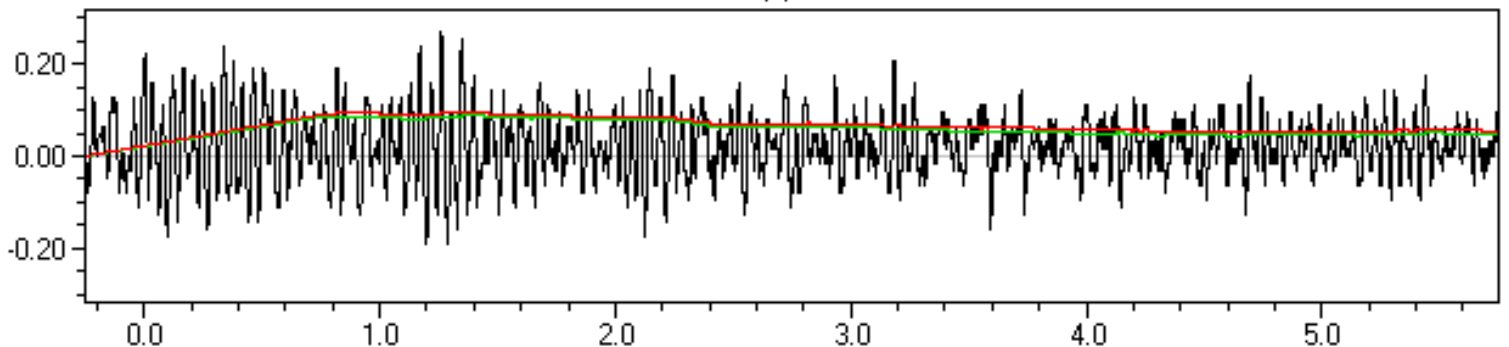
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 22:29:42

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHMM.H10

Trigger: Tran

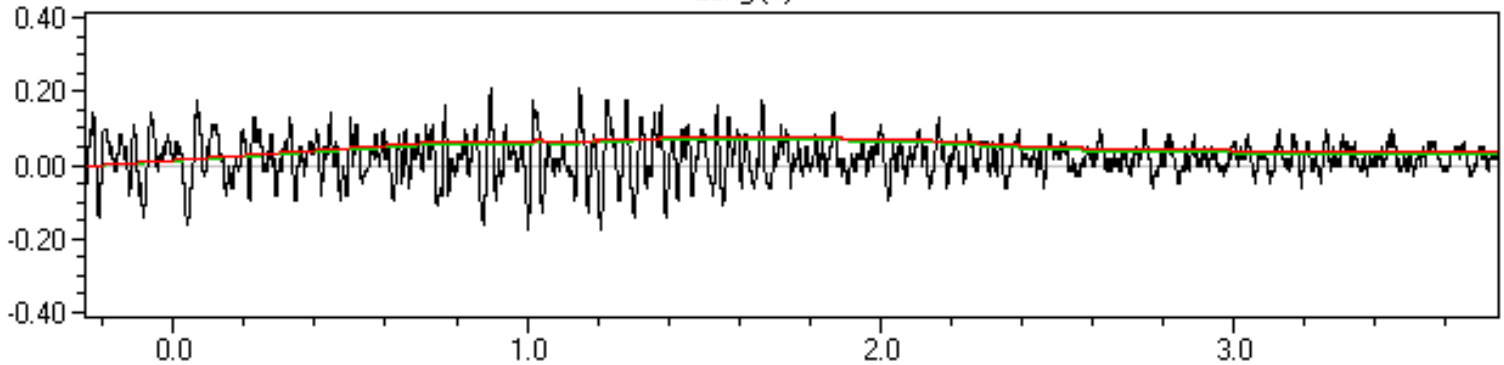
Record Time: 3.75 sec

Sample Rate: 1024 sps

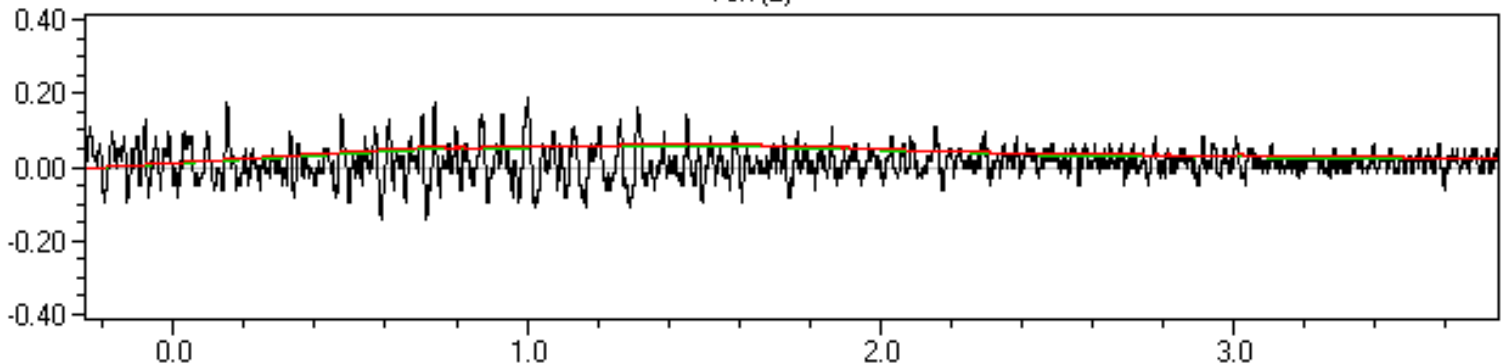
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.413	0.190	0.206	mm/s	
ZC Freq	27	19	27	Hz	
Time of Peak	0.712	1.001	0.897	Sec	
Peak Acceleration	0.00829	0.00663	0.00663	g	
Peak Displacement	0.00223	0.00150	0.00171	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,06	0,07		0,15
RMS (1s)	0,14	0,06	0,08		0,16

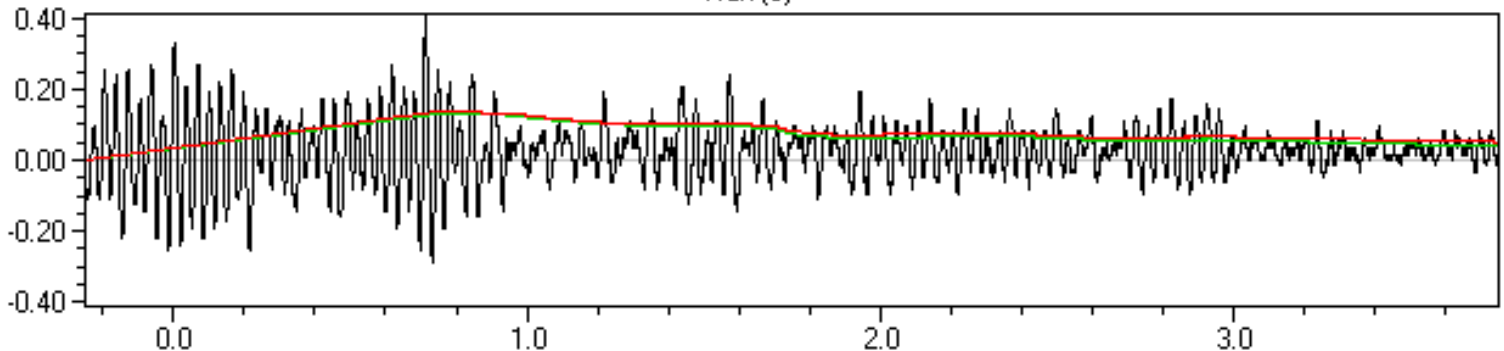
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 17:00:37

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHRR.910

Trigger: Long

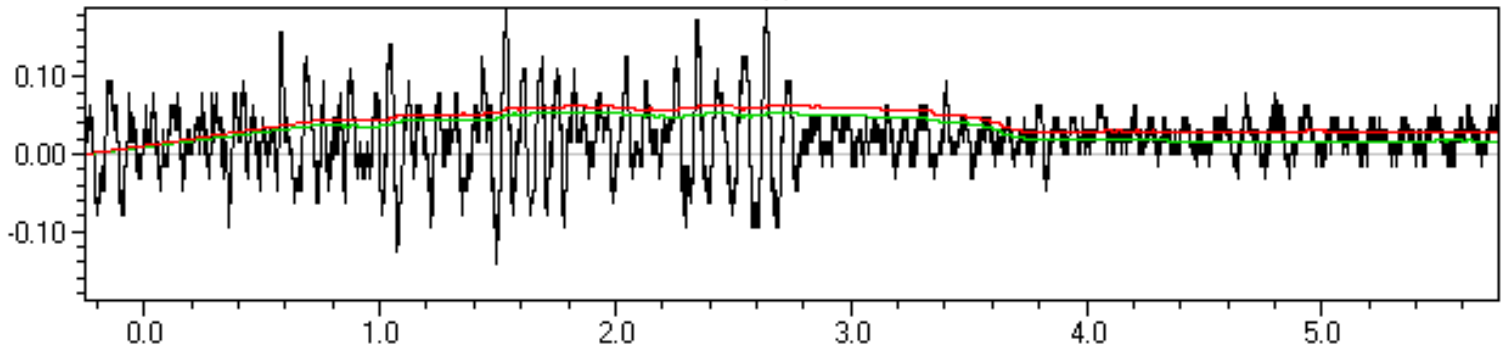
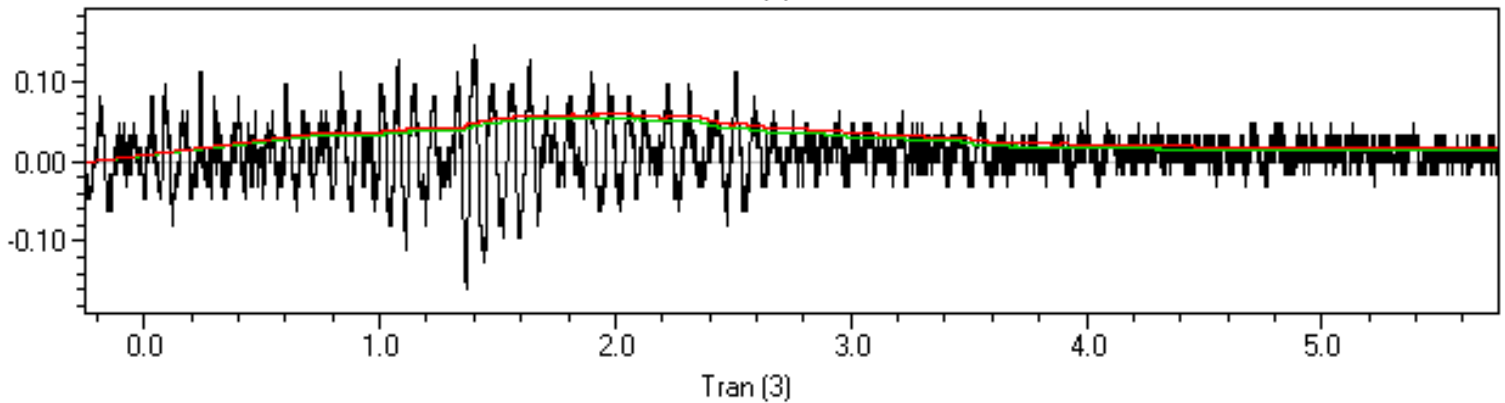
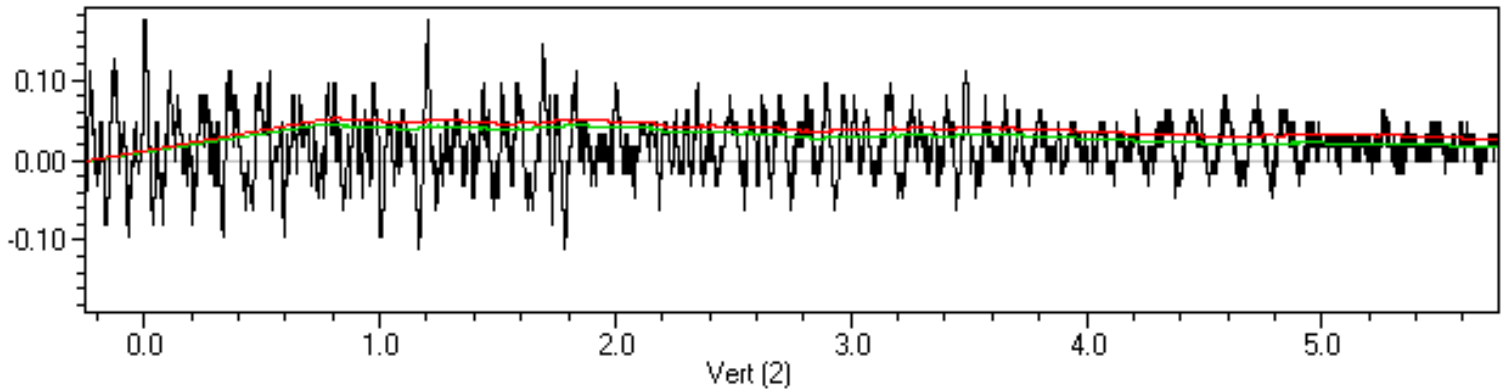
Record Time: 5.75 sec

Sample Rate: 1024 sps

Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.190	0.159	0.175	mm/s	
ZC Freq	13	18	16	Hz	
Time of Peak	1.536	1.365	0.002	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00240	0.00165	0.00214	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,05	0,04		0,09
RMS (1s)	0,06	0,06	0,05		0,10

Long (1)





Event Date: January 9, 2007

Event Time: 18:01:23

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHRU.2B0

Trigger: Tran

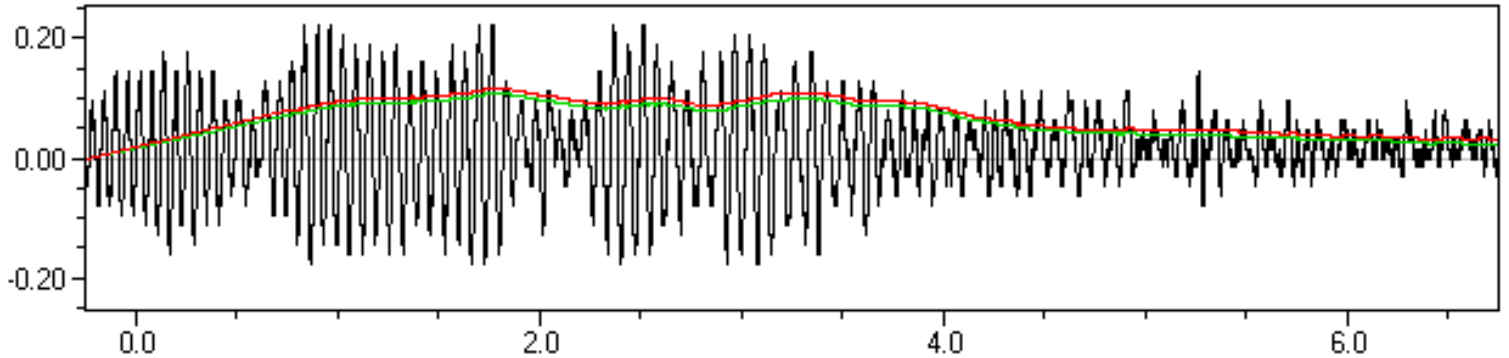
Record Time: 6.75 sec

Sample Rate: 1024 sps

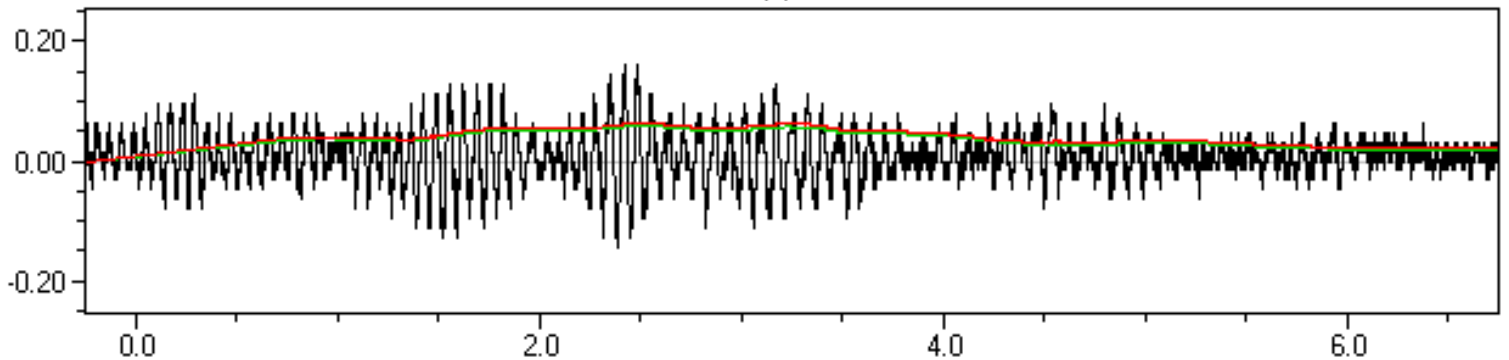
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.254	0.159	0.222	mm/s	
ZC Freq	15	14	15	Hz	
Time of Peak	1.643	2.418	0.838	Sec	
Peak Acceleration	0.00497	0.00829	0.00497	g	
Peak Displacement	0.00259	0.00178	0.00260	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,06	0,11		0,14
RMS (1s)	0,10	0,06	0,12		0,16

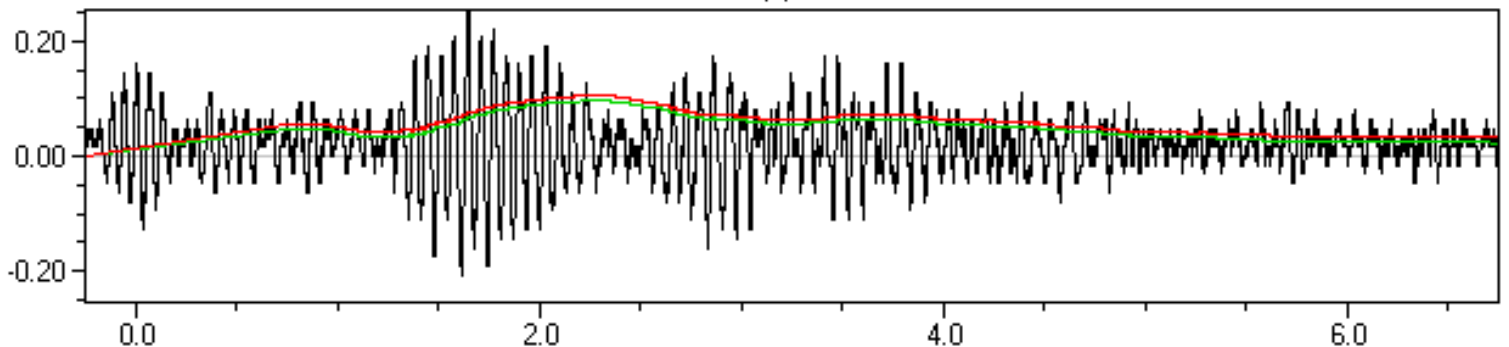
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 18:17:22

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHRU.SY0

Trigger: Tran

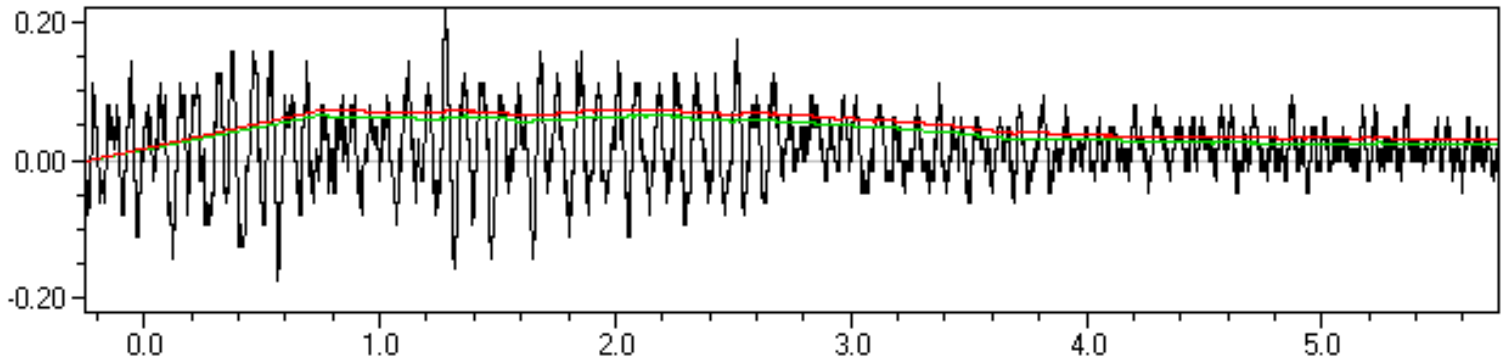
Record Time: 5.75 sec

Sample Rate: 1024 sps

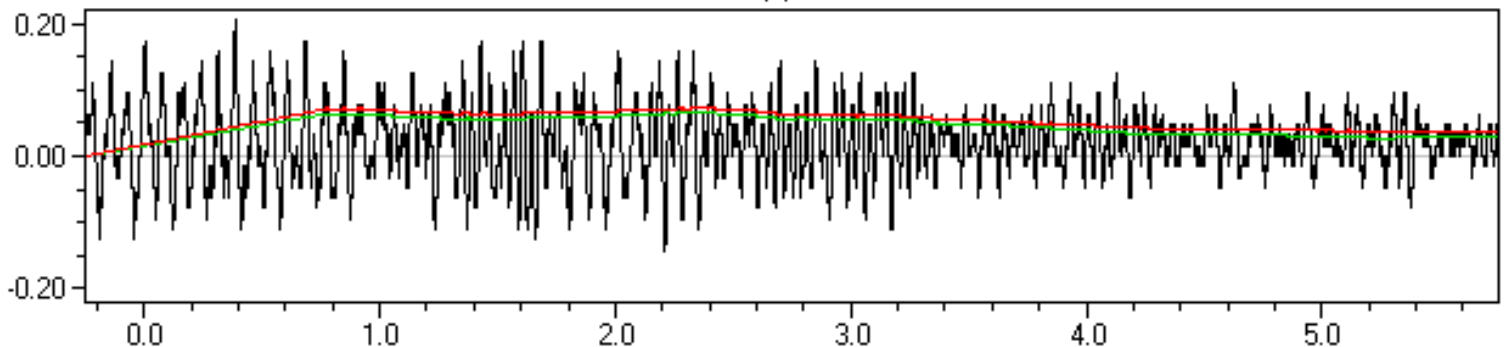
Calibration: March 6, 1998 by InstanTEL Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.206	0.143	0.222	mm/s	
ZC Freq	16	17	14	Hz	
Time of Peak	0.387	0.131	1.278	Sec	
Peak Acceleration	0.00663	0.00663	0.00497	g	
Peak Displacement	0.00198	0.00136	0.00232	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,05	0,06		0,10
RMS (1s)	0,07	0,06	0,07		0,12

Long (1)



Tran (3)





Event Date: January 9, 2007

Event Time: 18:28:15

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHRV.B30

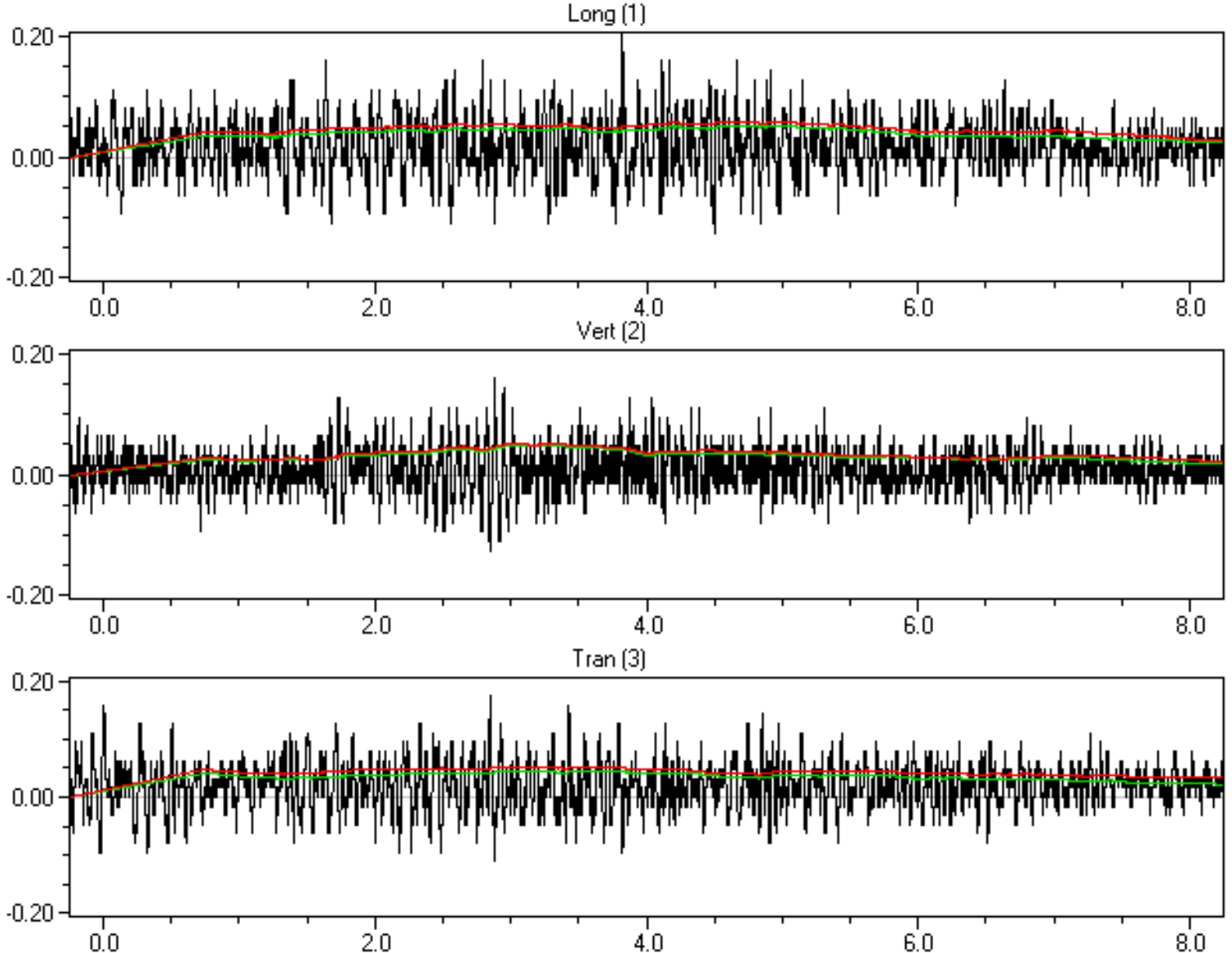
Trigger: Tran

Record Time: 8.25 sec

Sample Rate: 1024 sps

Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.175	0.159	0.206	mm/s	
ZC Freq	19	19	13	Hz	
Time of Peak	2.849	2.880	3.820	Sec	
Peak Acceleration	0.00663	0.00663	0.00497	g	
Peak Displacement	0.00163	0.00126	0.00181	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,05	0,05		0,08
RMS (1s)	0,05	0,05	0,06		0,09





Event Date: January 9, 2007

Event Time: 18:45:14

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHRW.3E0

Trigger: Tran

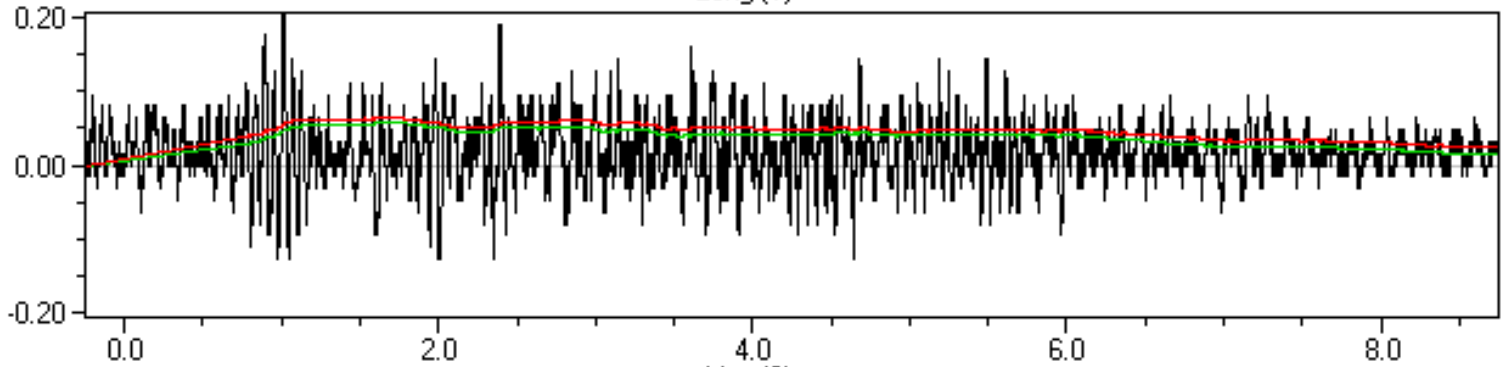
Record Time: 8.75 sec

Sample Rate: 1024 sps

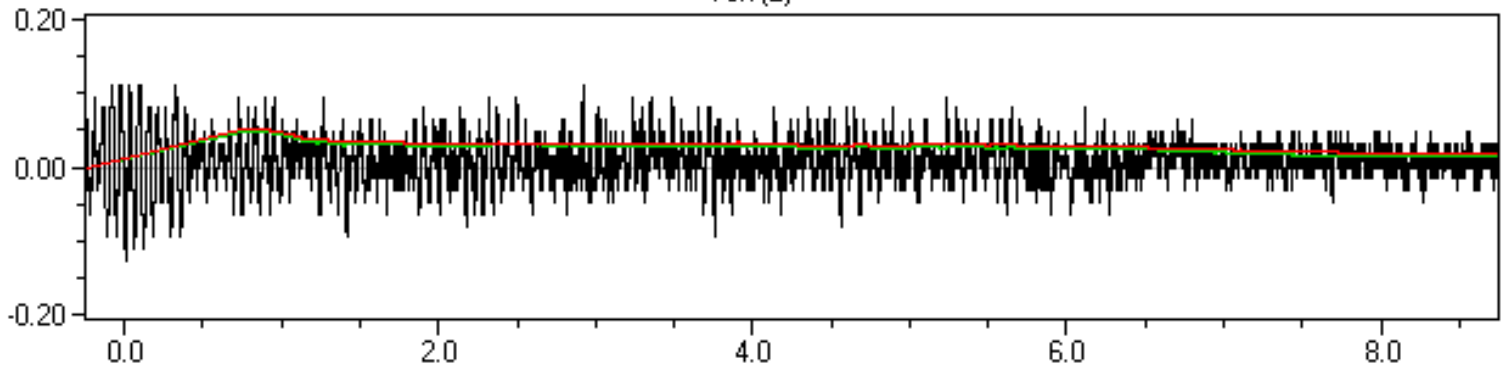
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.159	0.127	0.206	mm/s	
ZC Freq	17	20	14	Hz	
Time of Peak	0.003	0.009	1.009	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00191	0.00108	0.00229	mm	rms of magnitude
RMS (1s fw 5.6)	0,04	0,05	0,06		0,07
RMS (1s)	0,05	0,05	0,06		0,09

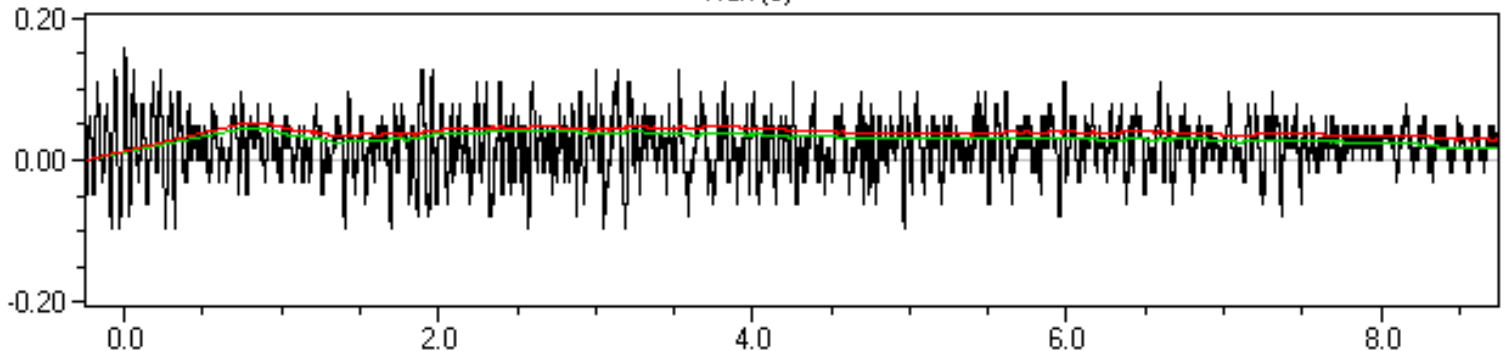
Long (1)



Vert (2)



Tran (3)





Event Date: January 9, 2007

Event Time: 20:31:25

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHS1.0D0

Trigger: Tran

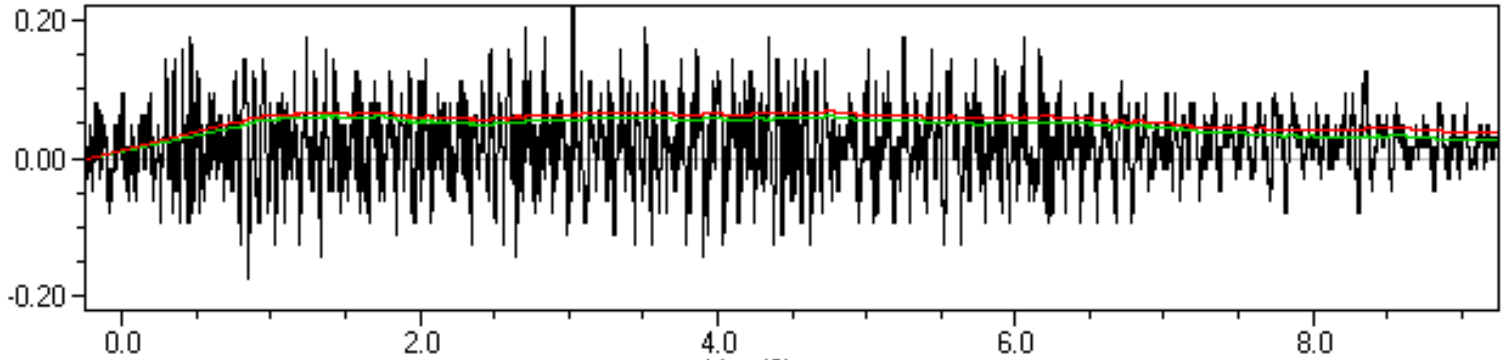
Record Time: 9.25 sec

Sample Rate: 1024 sps

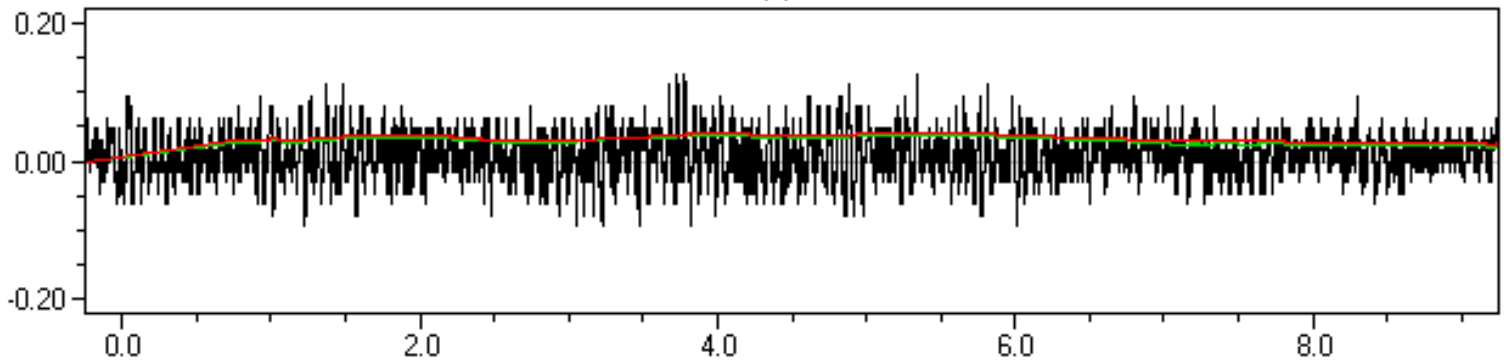
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.190	0.127	0.222	mm/s	
ZC Freq	22	39	21	Hz	
Time of Peak	4.248	3.729	3.027	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00204	0.00104	0.00209	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,04	0,06		0,09
RMS (1s)	0,06	0,04	0,07		0,10

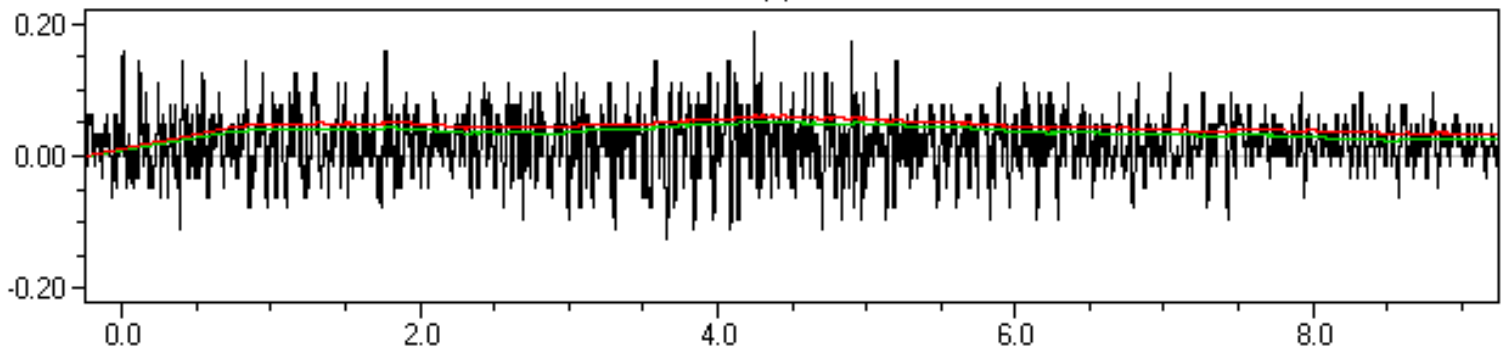
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 05:39:09

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHSQ.D90

Trigger: Tran

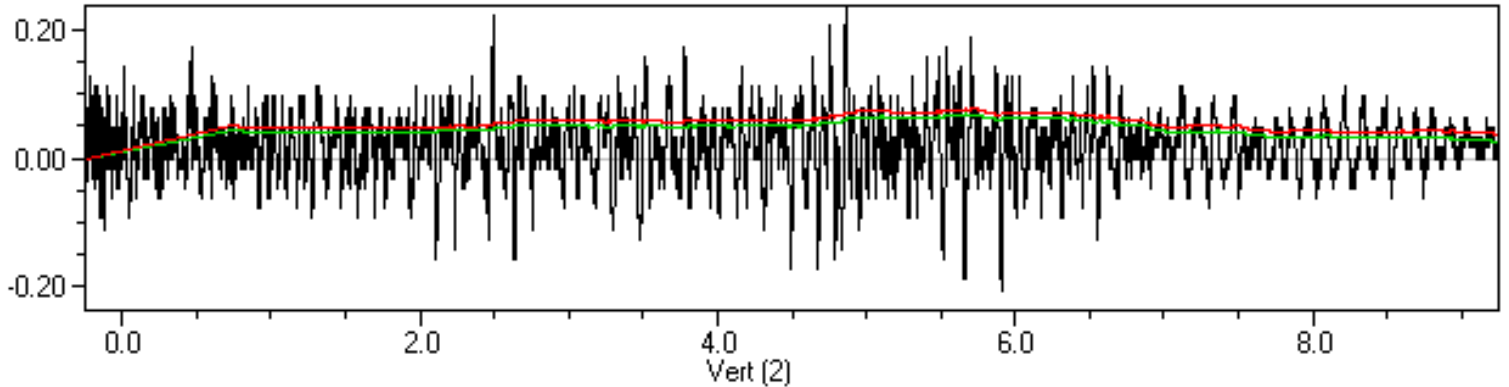
Record Time: 9.25 sec

Sample Rate: 1024 sps

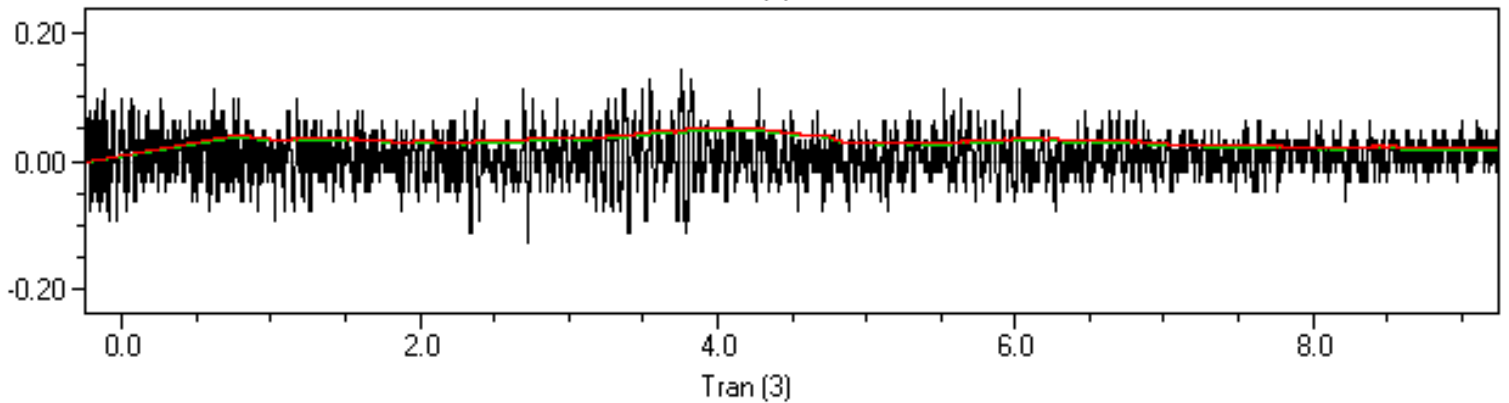
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.238	0.143	0.238	mm/s	
ZC Freq	12	17	15	Hz	
Time of Peak	2.671	3.758	4.860	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00273	0.00129	0.00233	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,05	0,07		0,09
RMS (1s)	0,07	0,05	0,08		0,10

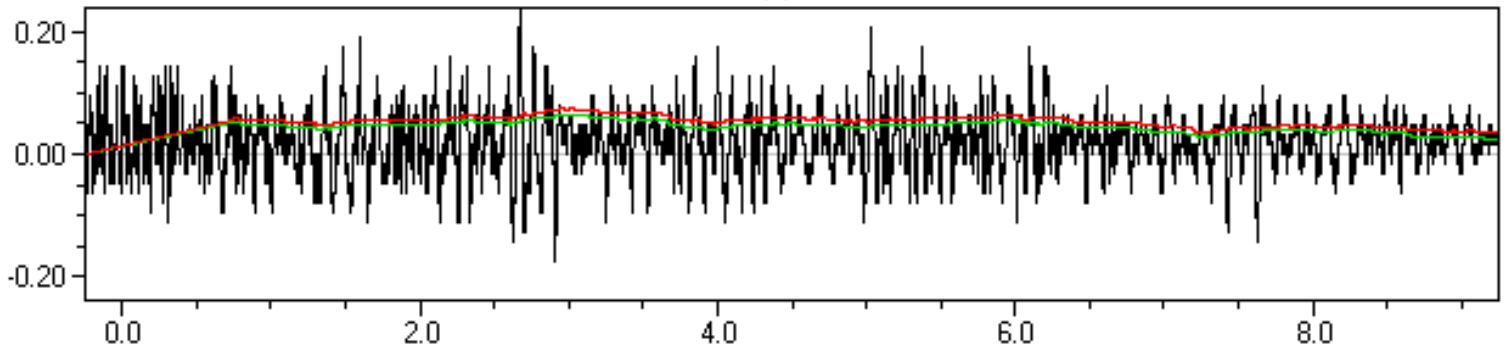
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 06:44:17

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHST.DT0

Trigger: Long

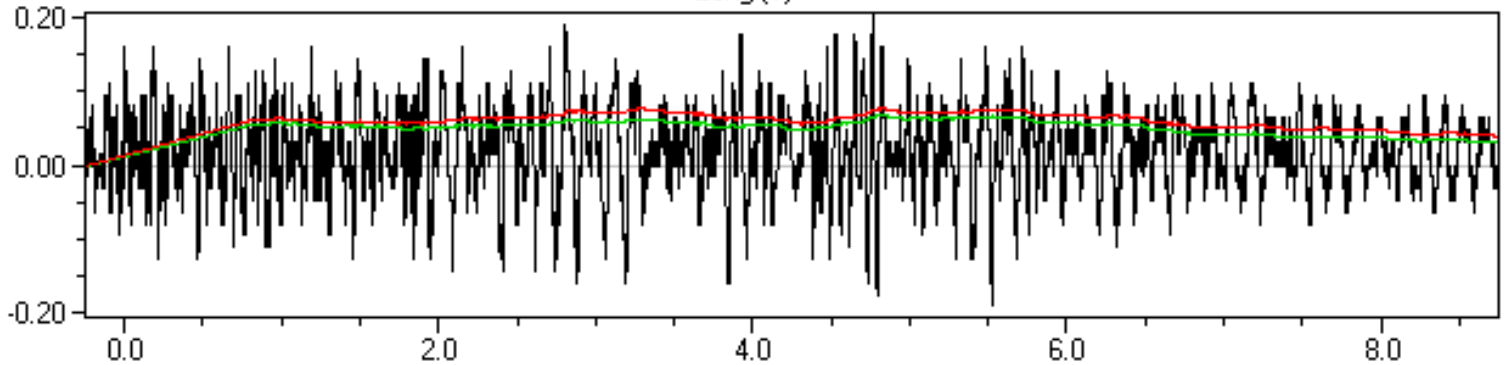
Record Time: 8.75 sec

Sample Rate: 1024 sps

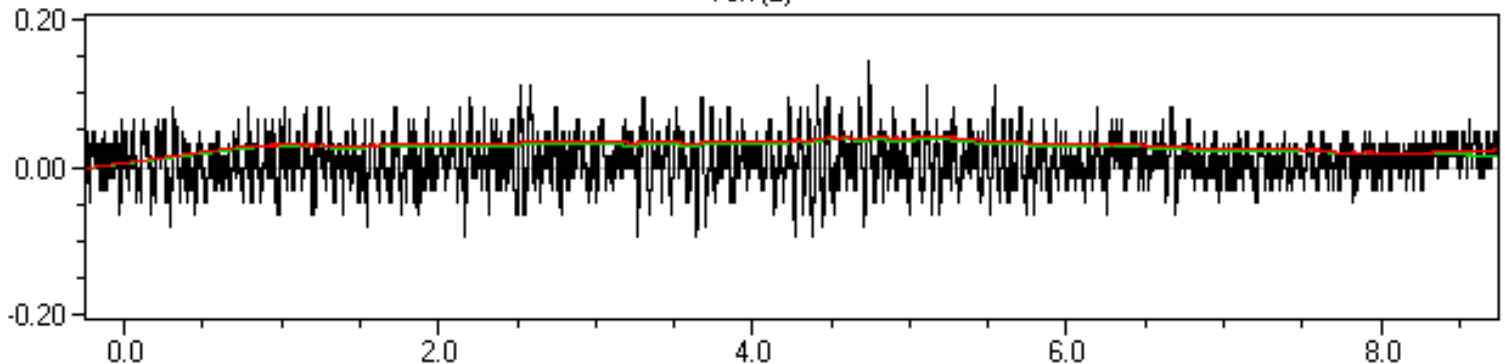
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.175	0.143	0.206	mm/s	
ZC Freq	12	17	18	Hz	
Time of Peak	2.318	4.741	4.763	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00240	0.00122	0.00312	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,04	0,07		0,09
RMS (1s)	0,06	0,04	0,08		0,10

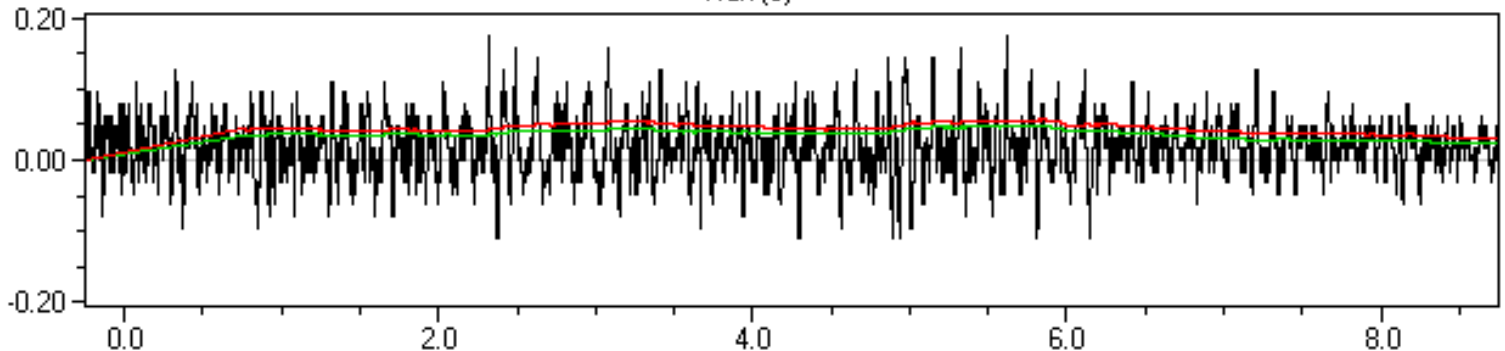
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 07:12:16

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHSU.OG0

Trigger: Long

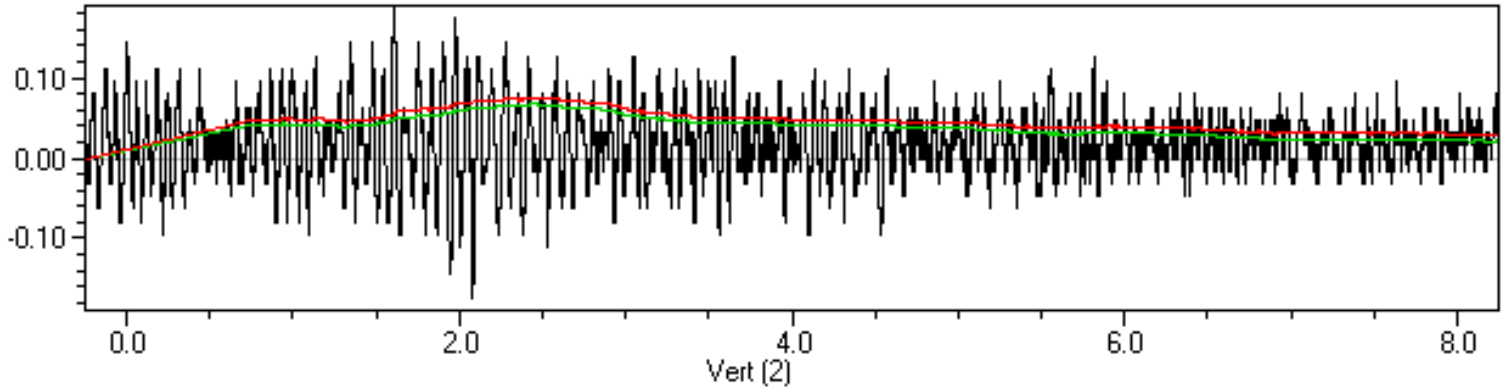
Record Time: 8.25 sec

Sample Rate: 1024 sps

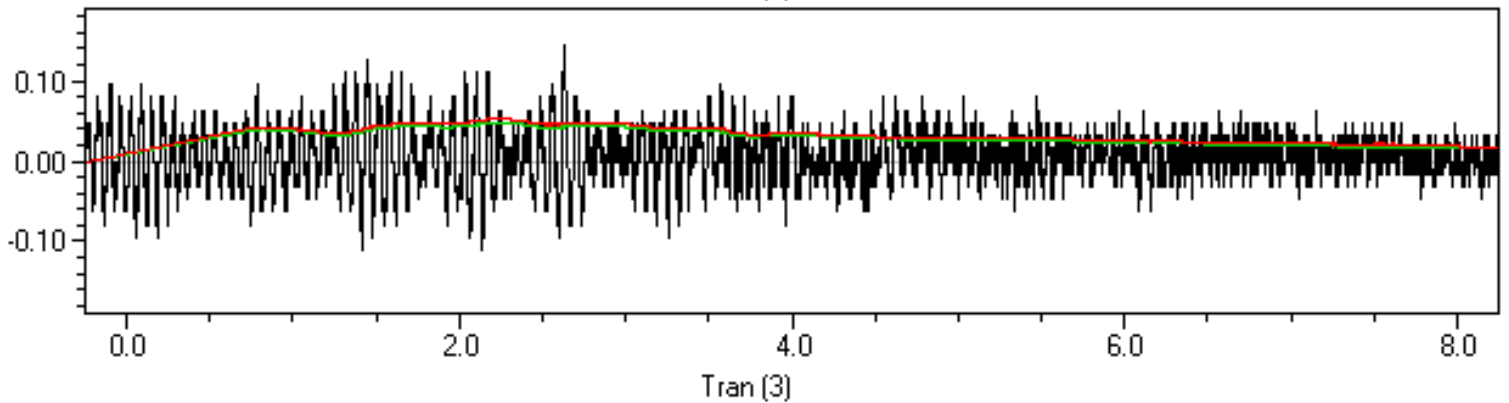
Calibration: March 6, 1998 by Instintel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.175	0.143	0.190	mm/s	
ZC Freq	20	17	16	Hz	
Time of Peak	4.825	2.630	1.603	Sec	
Peak Acceleration	0.00663	0.00663	0.00497	g	
Peak Displacement	0.00157	0.00133	0.00202	mm	rms of magnitude
RMS (1s fw 5.6)	0,05	0,05	0,07		0,09
RMS (1s)	0,06	0,05	0,08		0,10

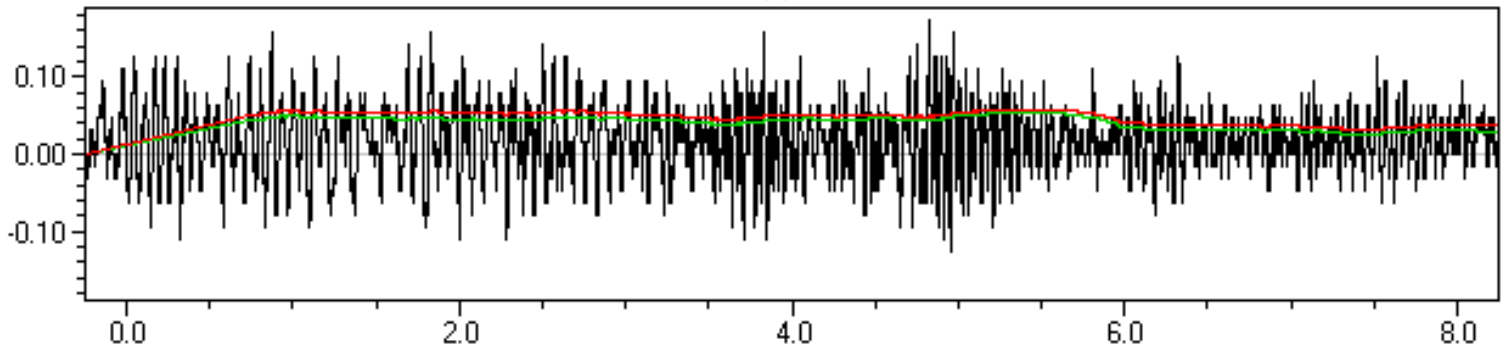
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 08:22:44

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHSX.XW0

Trigger: Long

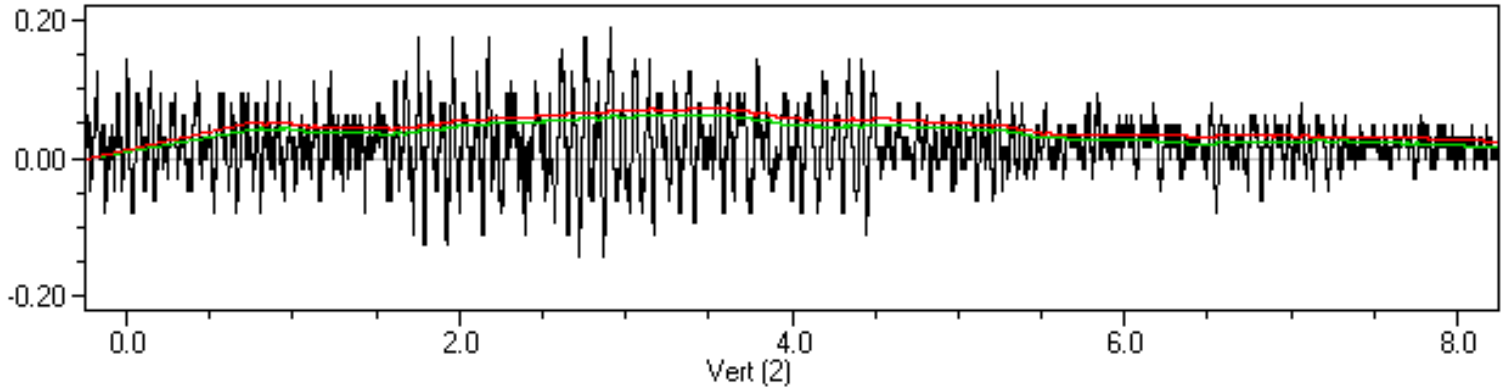
Record Time: 8.25 sec

Sample Rate: 1024 sps

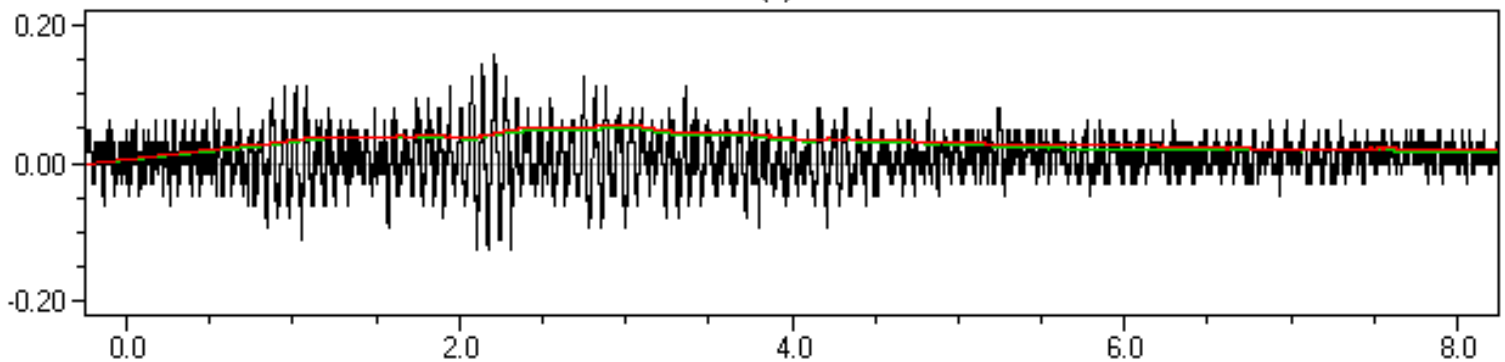
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.222	0.159	0.190	mm/s	
ZC Freq	18	18	12	Hz	
Time of Peak	2.763	2.211	2.910	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00212	0.00127	0.00241	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,05	0,06		0,10
RMS (1s)	0,08	0,06	0,07		0,11

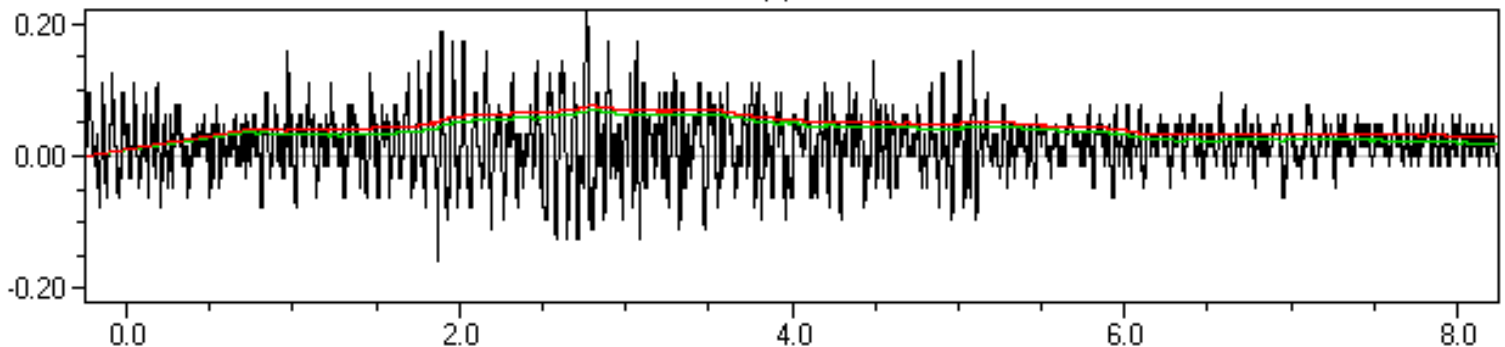
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 10:28:13

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy, p. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE6081, V 8.01-8.0 MiniMate Plus

File Name: H081BHT3.R10

Trigger: Tran

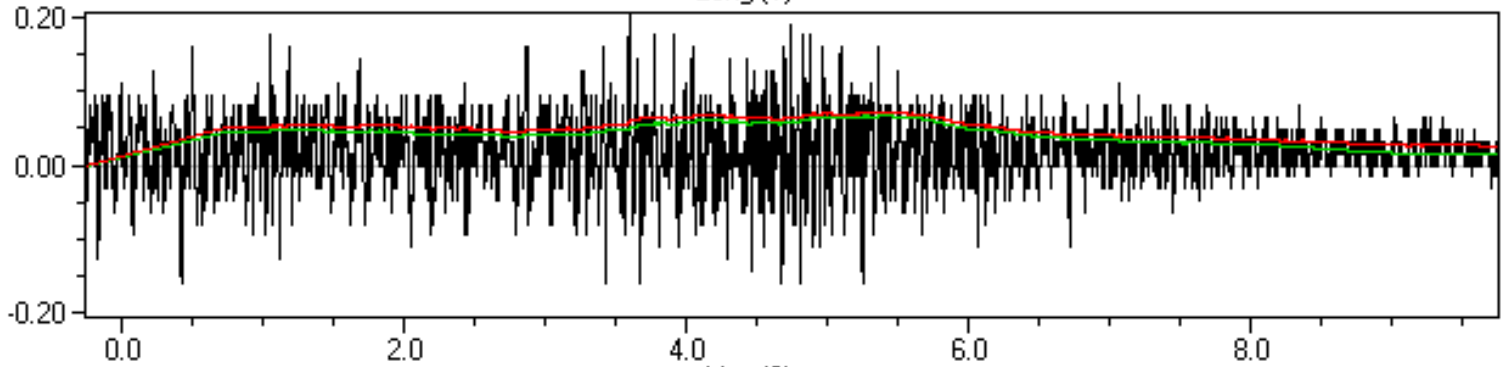
Record Time: 9.75 sec

Sample Rate: 1024 sps

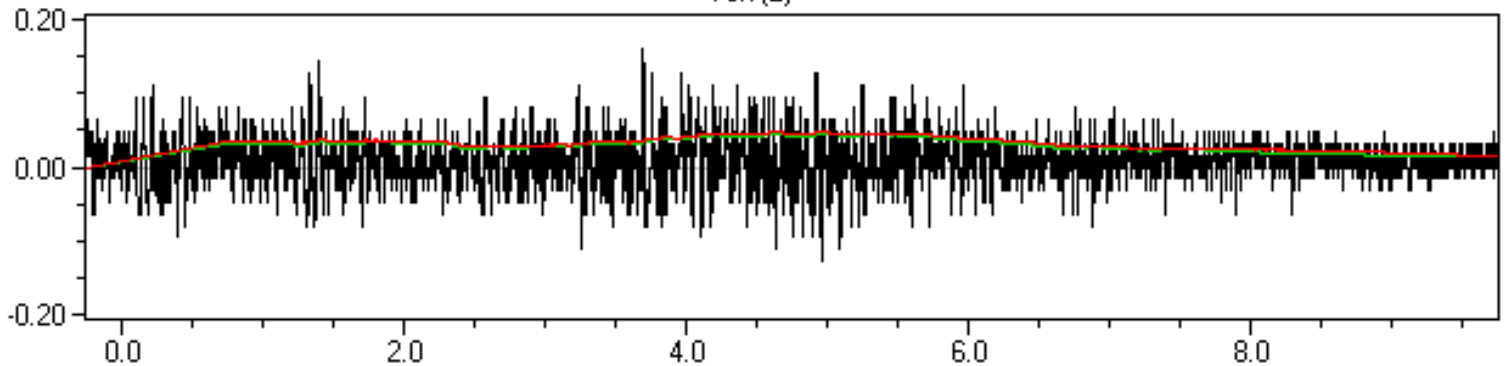
Calibration: March 6, 1998 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.206	0.159	0.206	mm/s	
ZC Freq	24	26	18	Hz	
Time of Peak	3.849	3.694	3.599	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00145	0.00098	0.00212	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,04	0,07		0,10
RMS (1s)	0,07	0,05	0,07		0,11

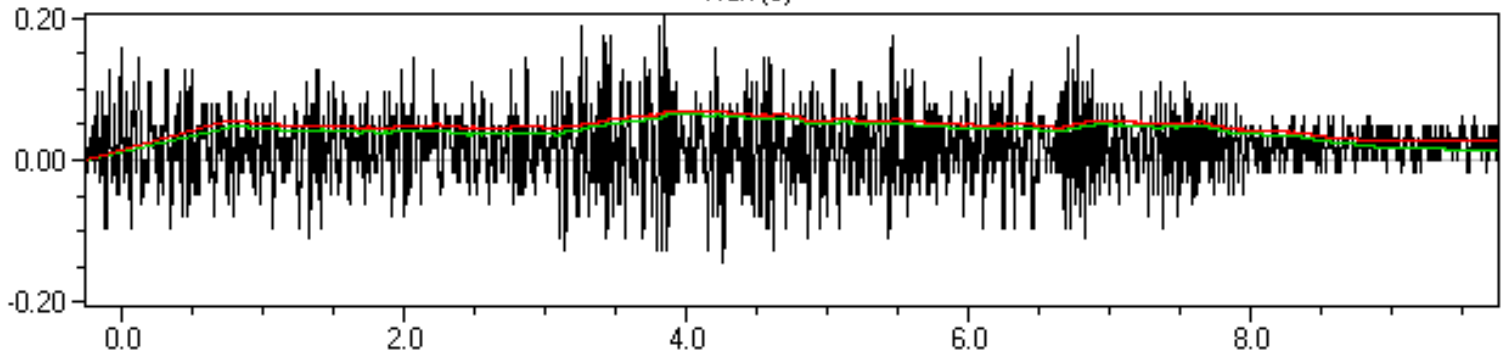
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 16:33:17

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHKB.BH0

Trigger: Tran

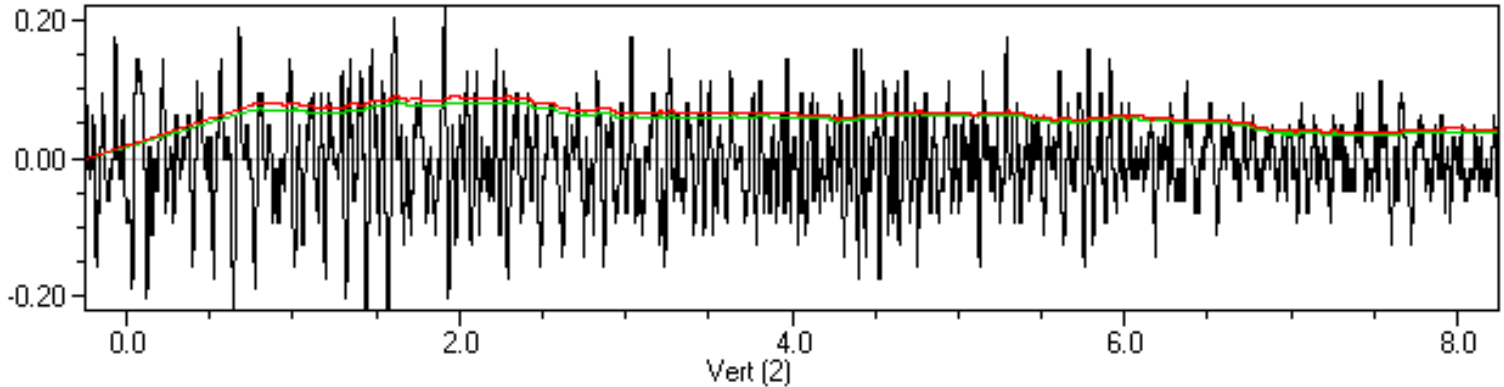
Record Time: 8.25 sec

Sample Rate: 1024 sps

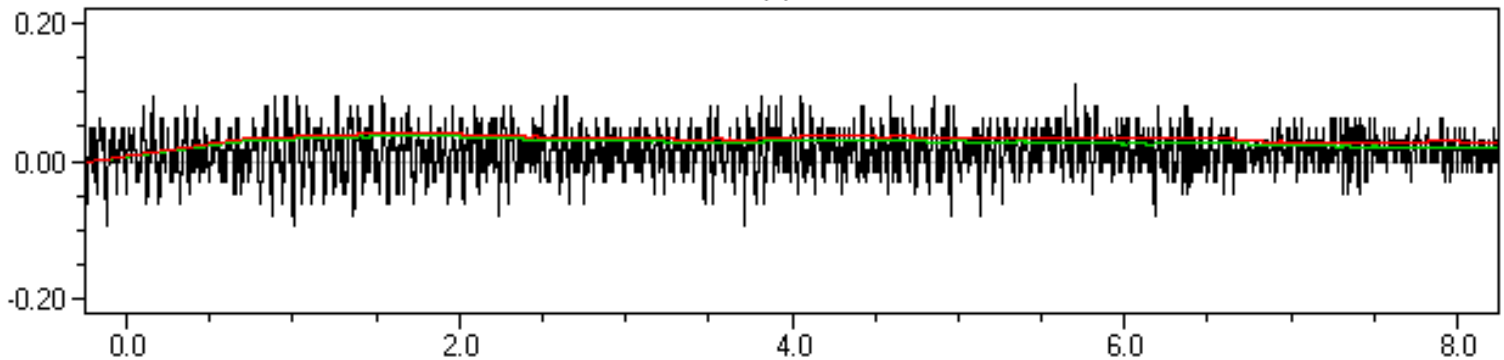
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.222	0.111	0.222	mm/s	
ZC Freq	15	21	16	Hz	
Time of Peak	0.003	5.703	0.639	Sec	
Peak Acceleration	0.00663	0.00497	0.00663	g	
Peak Displacement	0.00258	0.00088	0.00312	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,04	0,08		0,11
RMS (1s)	0,08	0,04	0,09		0,12

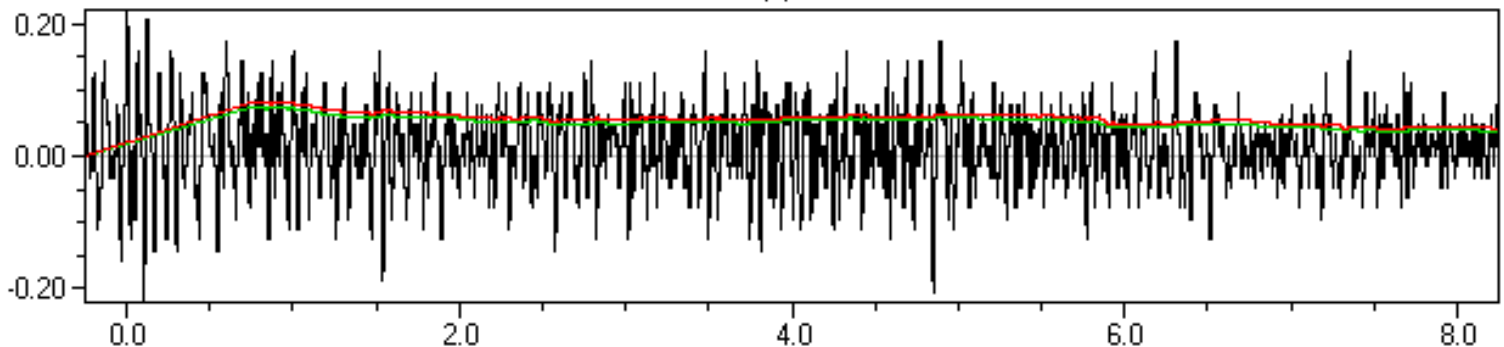
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 18:29:13

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHKG.OP0

Trigger: Tran

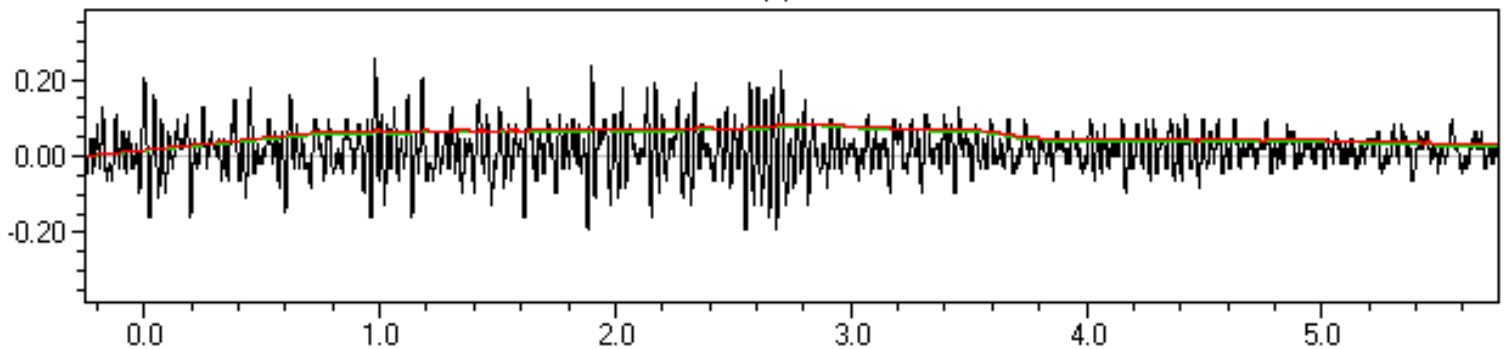
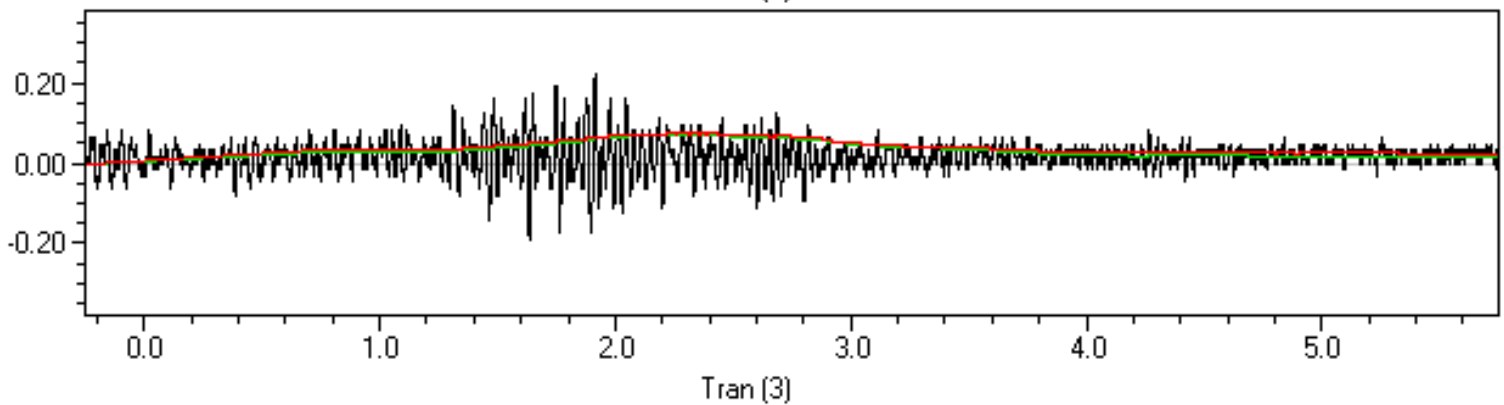
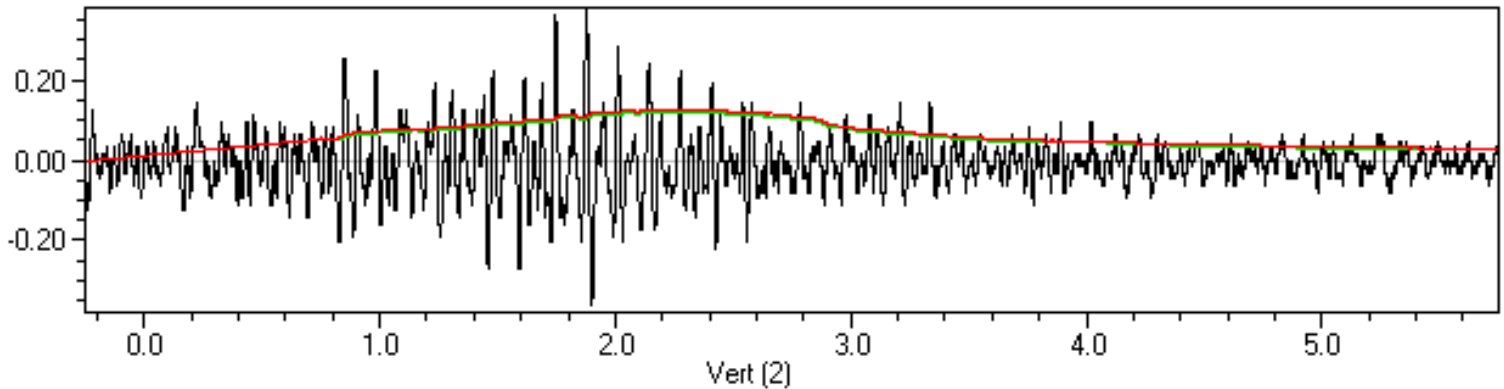
Record Time: 5.75 sec

Sample Rate: 1024 sps

Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.254	0.222	0.381	mm/s	
ZC Freq	28	28	20	Hz	
Time of Peak	0.979	1.913	1.877	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00153	0.00123	0.00298	mm	rms of magnitude
RMS (1s fw 5.6)	0,08	0,07	0,12		0,15
RMS (1s)	0,08	0,07	0,13		0,16

Long (1)





Event Date: January 5, 2007

Event Time: 20:34:28

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHKM.HG0

Trigger: Tran

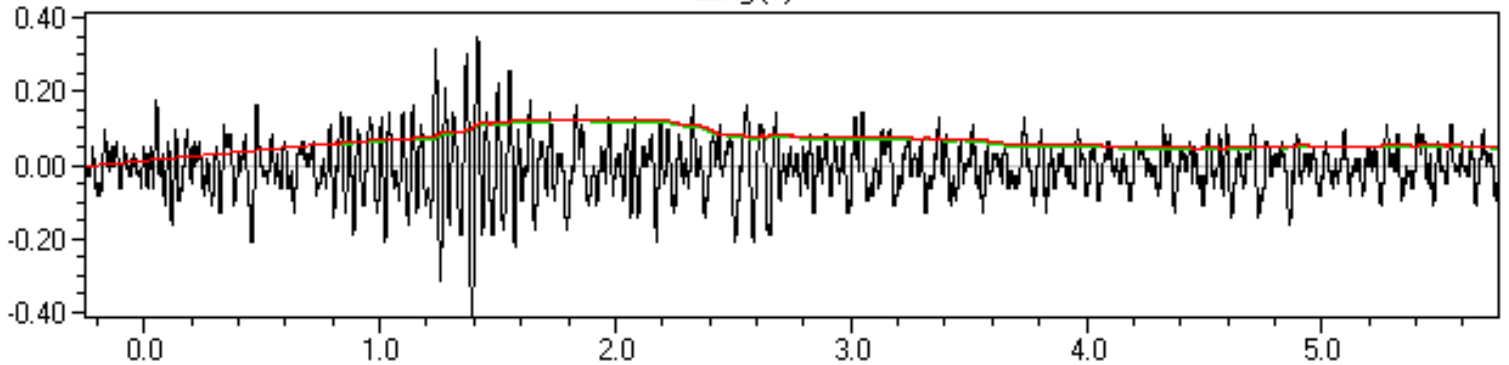
Record Time: 5.75 sec

Sample Rate: 1024 sps

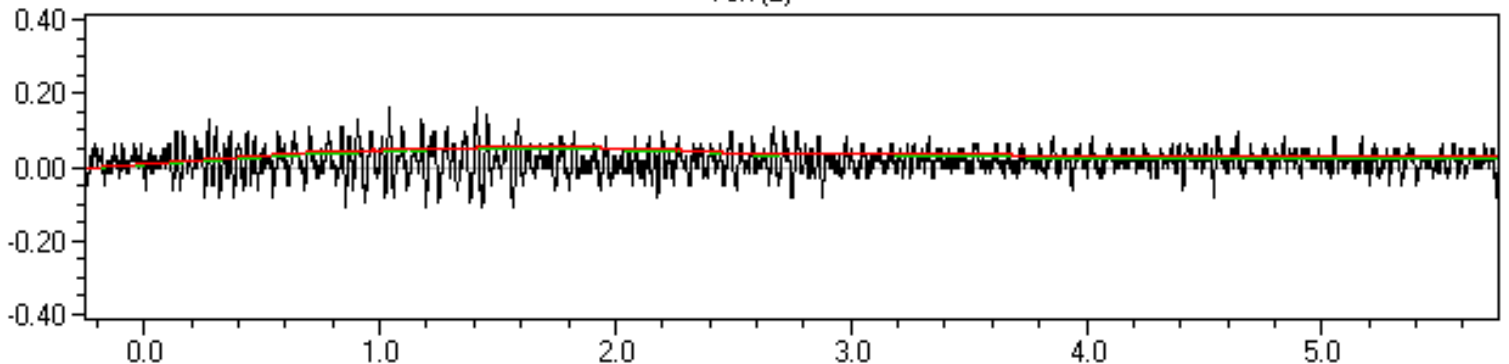
Calibration: May 27, 2005 by Instantal Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.317	0.159	0.413	mm/s	
ZC Freq	22	28	20	Hz	
Time of Peak	1.379	1.038	1.391	Sec	
Peak Acceleration	0.00663	0.00497	0.00829	g	
Peak Displacement	0.00220	0.00109	0.00313	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,05	0,12		0,16
RMS (1s)	0,10	0,06	0,13		0,17

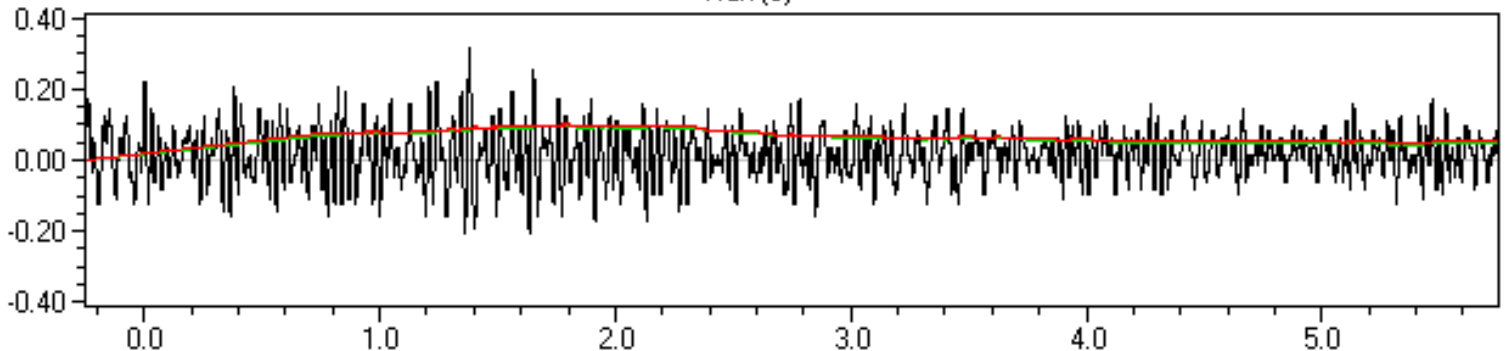
Long (1)



Vert (2)



Tran (3)





Event Date: January 5, 2007

Event Time: 23:31:00

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHKU.NO0

Trigger: Tran

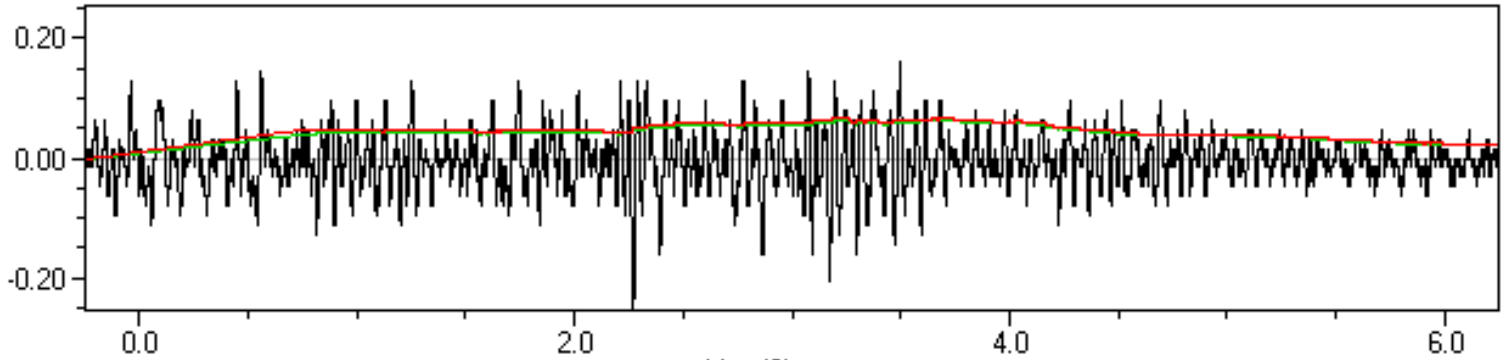
Record Time: 6.25 sec

Sample Rate: 1024 sps

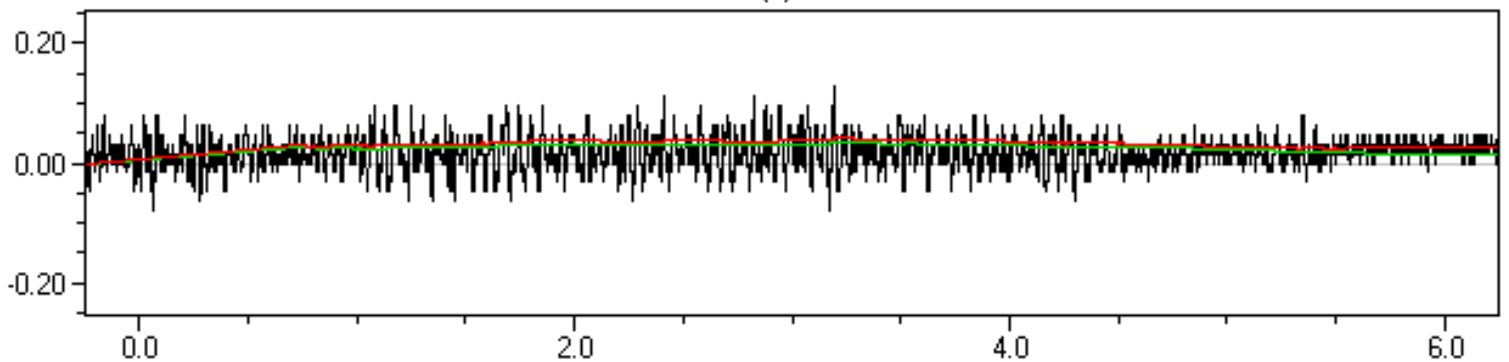
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.206	0.127	0.254	mm/s	
ZC Freq	17	23	21	Hz	
Time of Peak	0.000	3.191	2.270	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00178	0.00092	0.00182	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,03	0,06		0,08
RMS (1s)	0,07	0,04	0,07		0,09

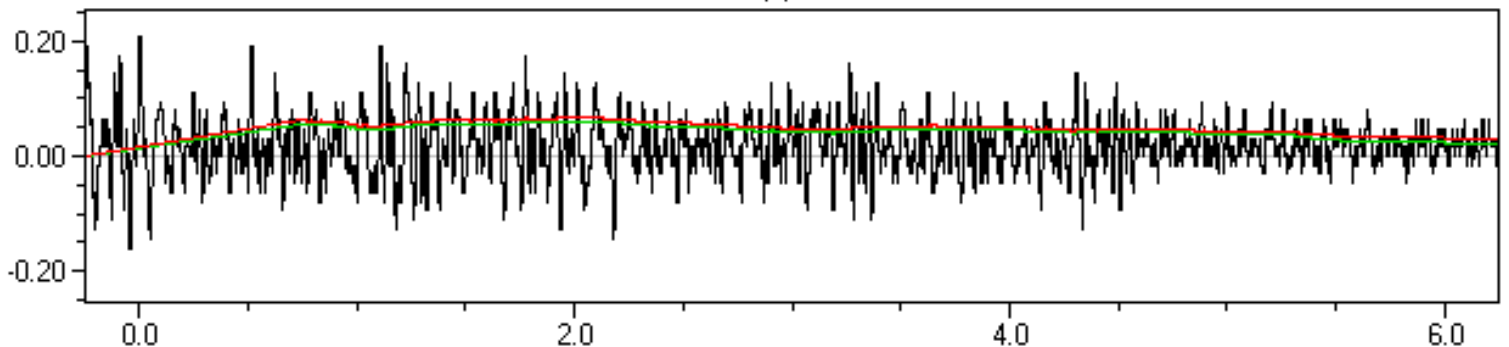
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 00:32:01

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHKX.HD0

Trigger: Long

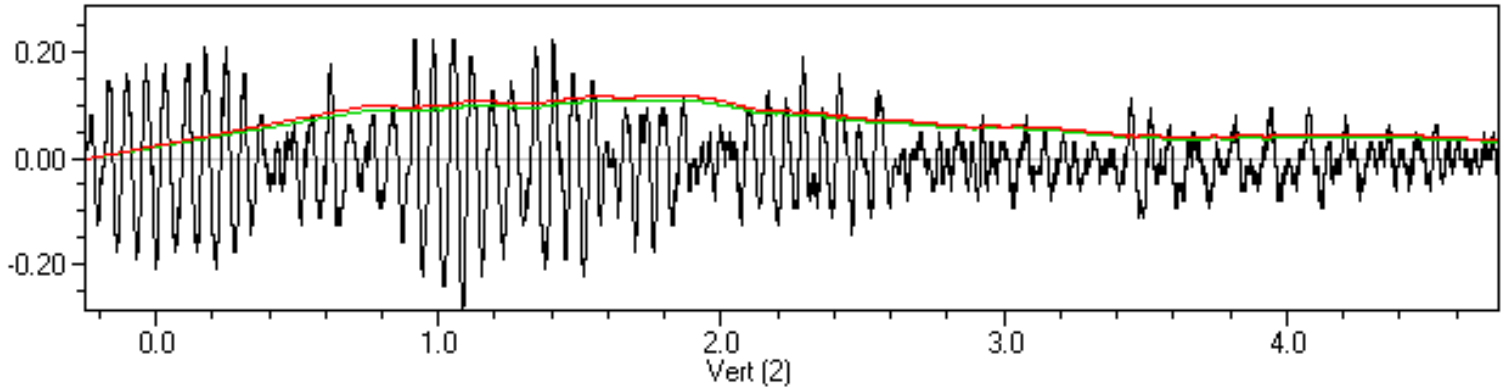
Record Time: 4.75 sec

Sample Rate: 1024 sps

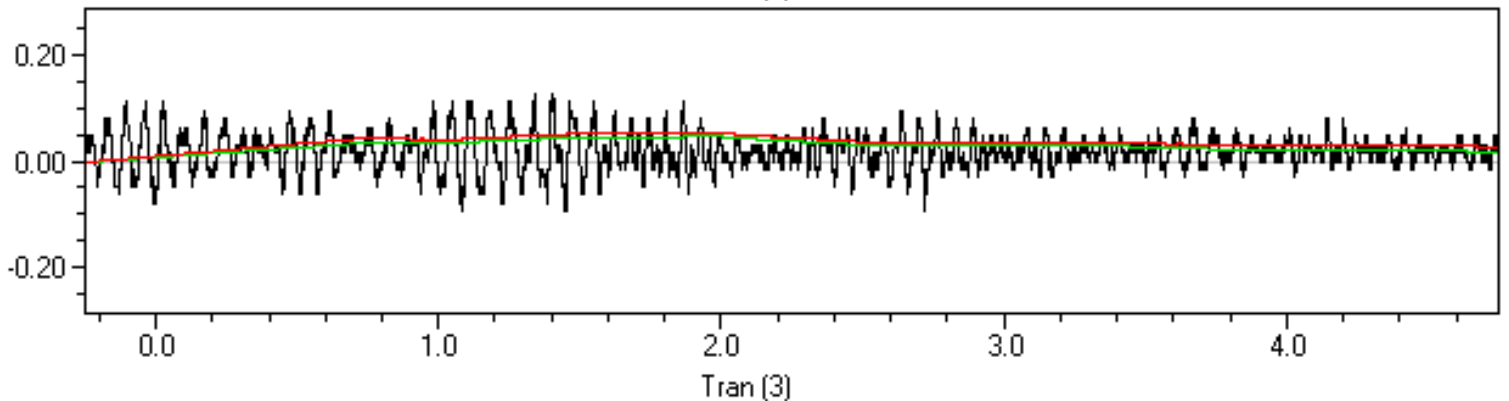
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.175	0.127	0.286	mm/s	
ZC Freq	18	18	16	Hz	
Time of Peak	0.737	1.338	1.083	Sec	
Peak Acceleration	0.00497	0.00497	0.00663	g	
Peak Displacement	0.00205	0.00132	0.00280	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,05	0,11		0,13
RMS (1s)	0,07	0,05	0,12		0,14

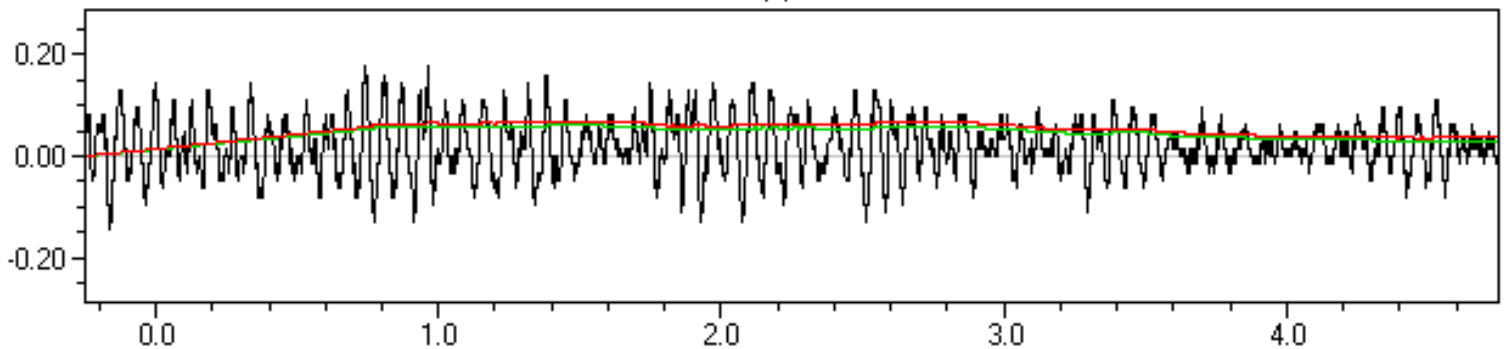
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 10:35:30

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHLP.F60

Trigger: Long

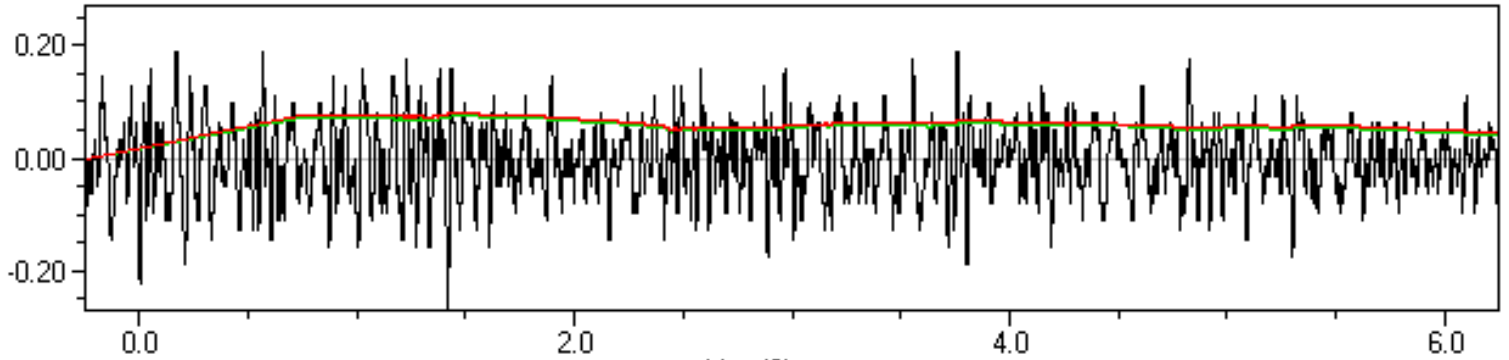
Record Time: 6.25 sec

Sample Rate: 1024 sps

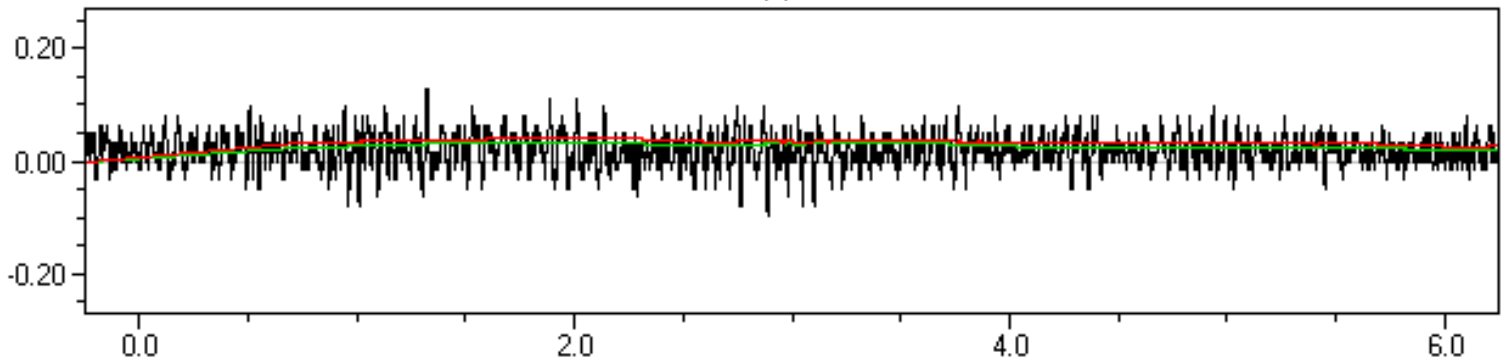
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.222	0.127	0.270	mm/s	
ZC Freq	26	26	22	Hz	
Time of Peak	2.888	1.320	1.418	Sec	
Peak Acceleration	0.00663	0.00497	0.00663	g	
Peak Displacement	0.00140	0.00113	0.00189	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,03	0,07		0,10
RMS (1s)	0,06	0,04	0,08		0,11

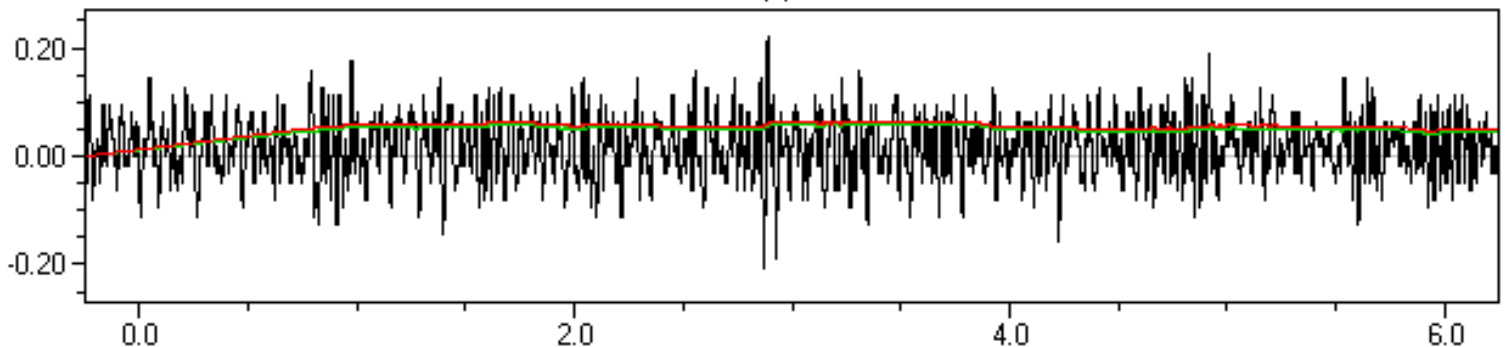
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 11:31:09

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHLR.ZX0

Trigger: Tran

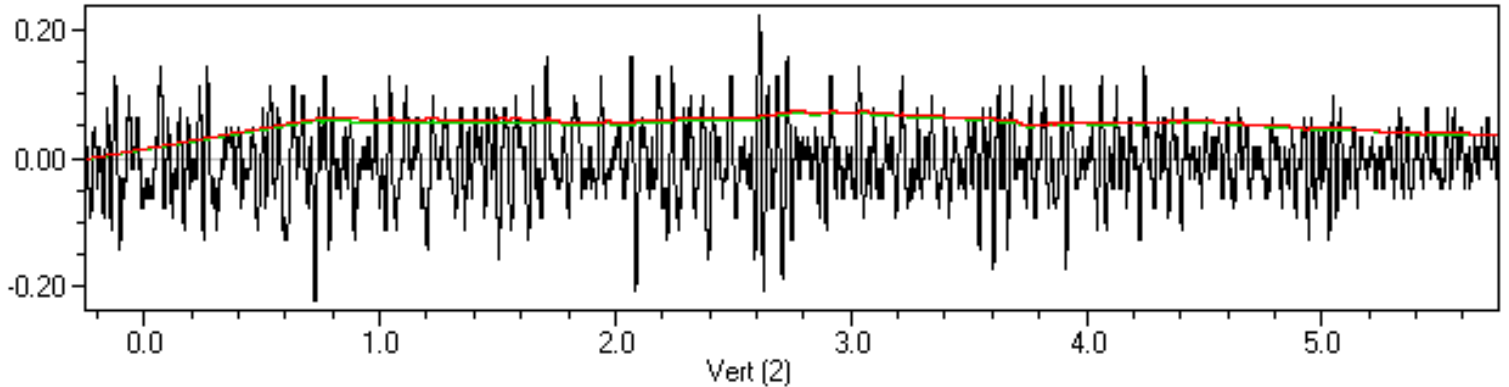
Record Time: 5.75 sec

Sample Rate: 1024 sps

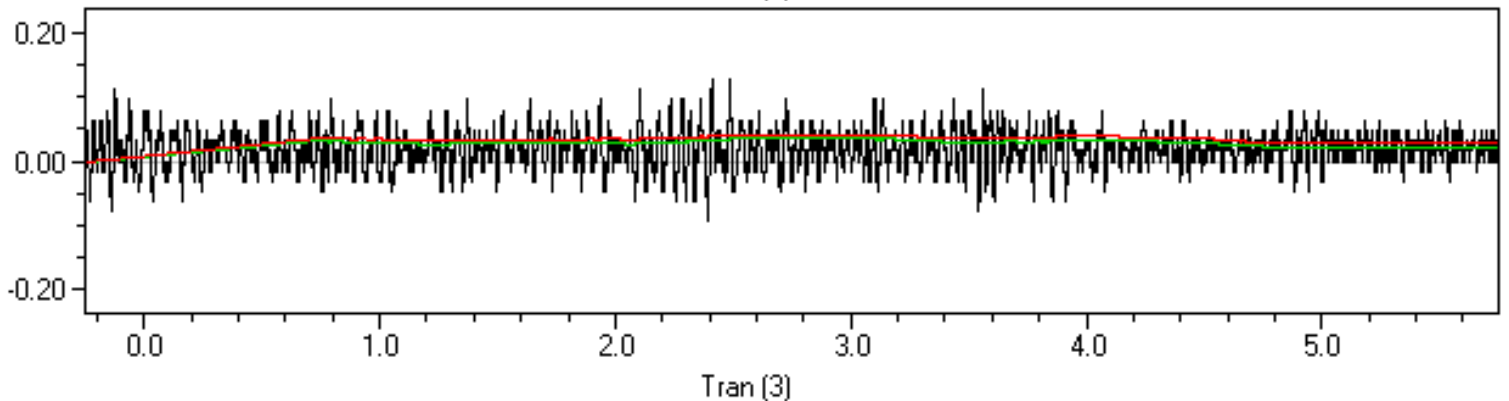
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.238	0.127	0.222	mm/s	
ZC Freq	27	27	22	Hz	
Time of Peak	0.002	2.410	0.724	Sec	
Peak Acceleration	0.00497	0.00663	0.00663	g	
Peak Displacement	0.00188	0.00098	0.00174	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,04	0,07		0,10
RMS (1s)	0,07	0,04	0,07		0,11

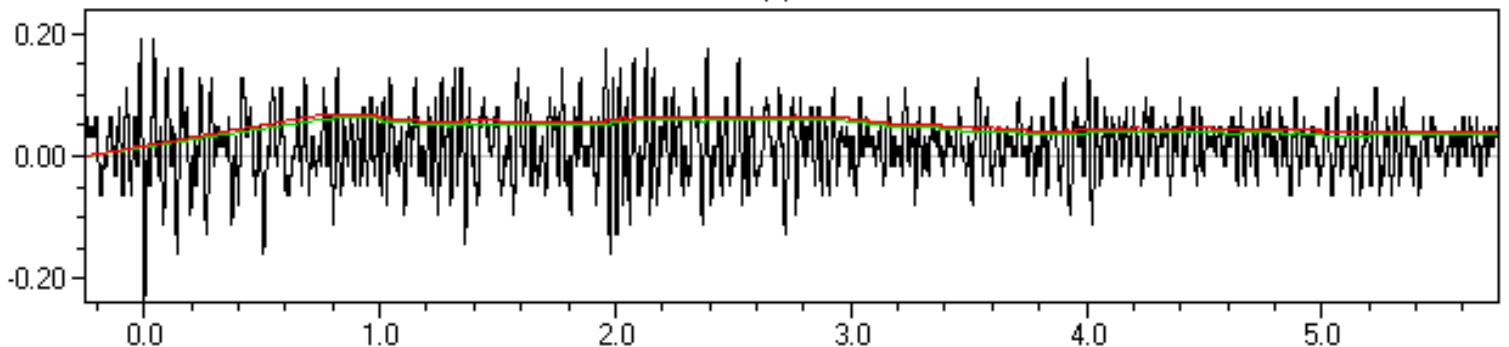
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 12:16:59

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHLU.4B0

Trigger: Long

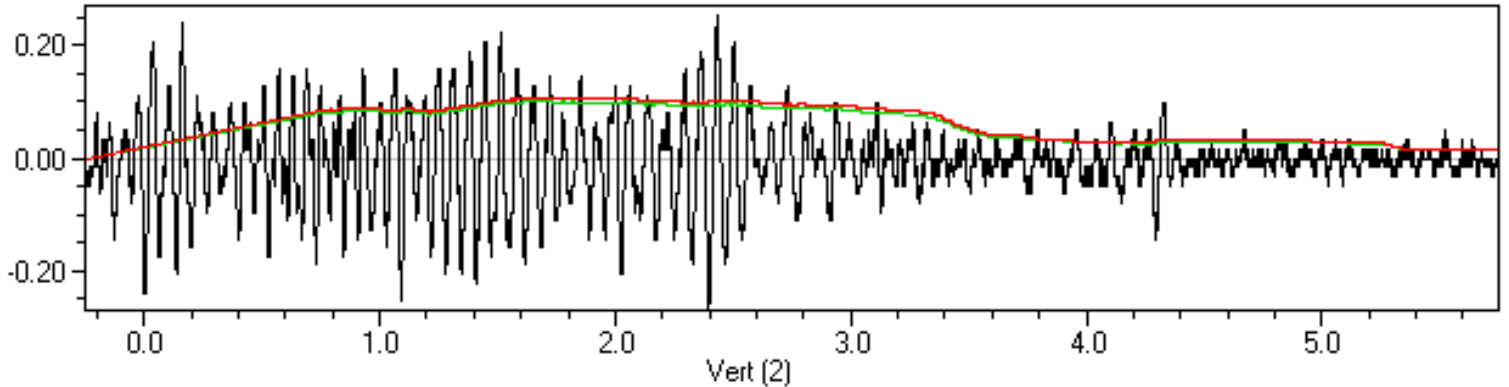
Record Time: 5.75 sec

Sample Rate: 1024 sps

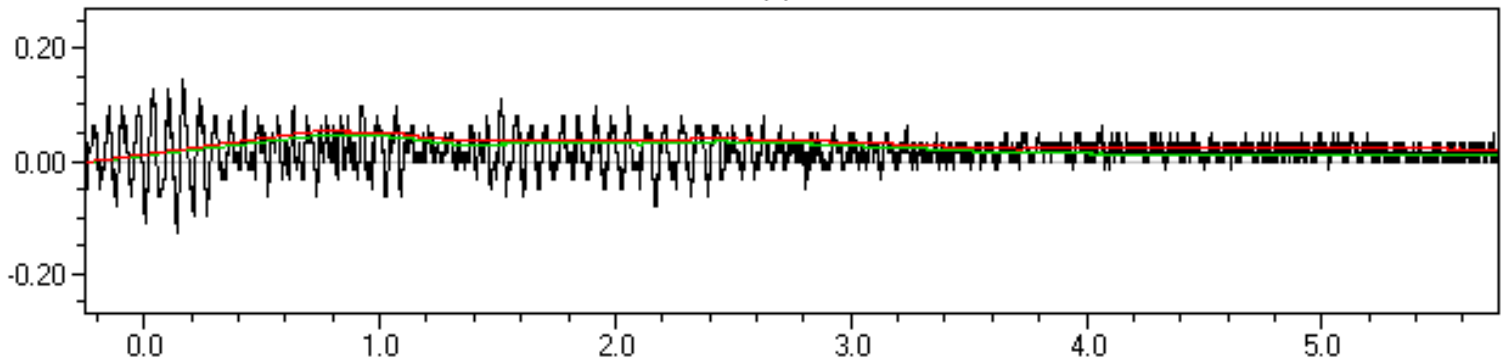
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.190	0.143	0.270	mm/s	
ZC Freq	15	18	15	Hz	
Time of Peak	0.139	0.160	2.396	Sec	
Peak Acceleration	0.00497	0.00663	0.00497	g	
Peak Displacement	0.00193	0.00133	0.00272	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,05	0,10		0,12
RMS (1s)	0,07	0,05	0,11		0,13

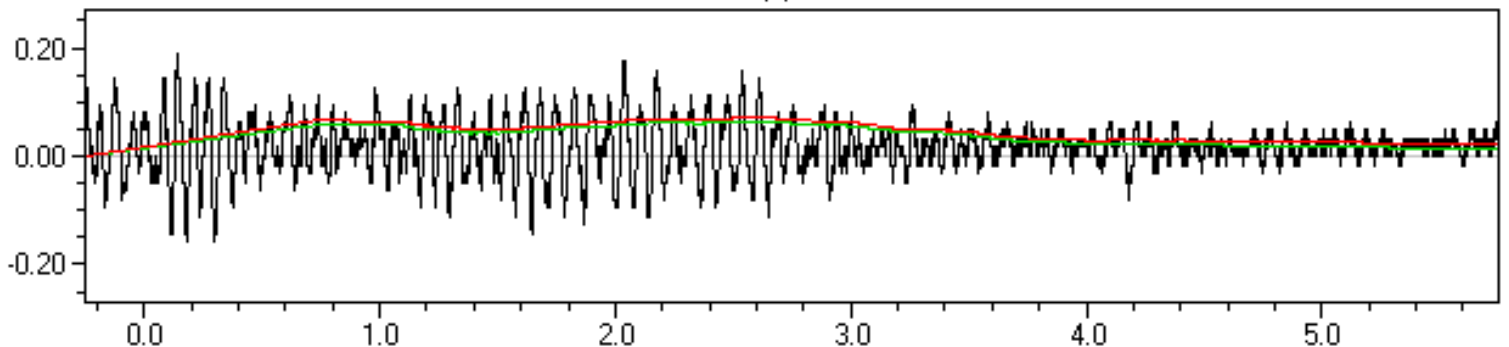
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 12:30:32

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHLU.QW0

Trigger: Long

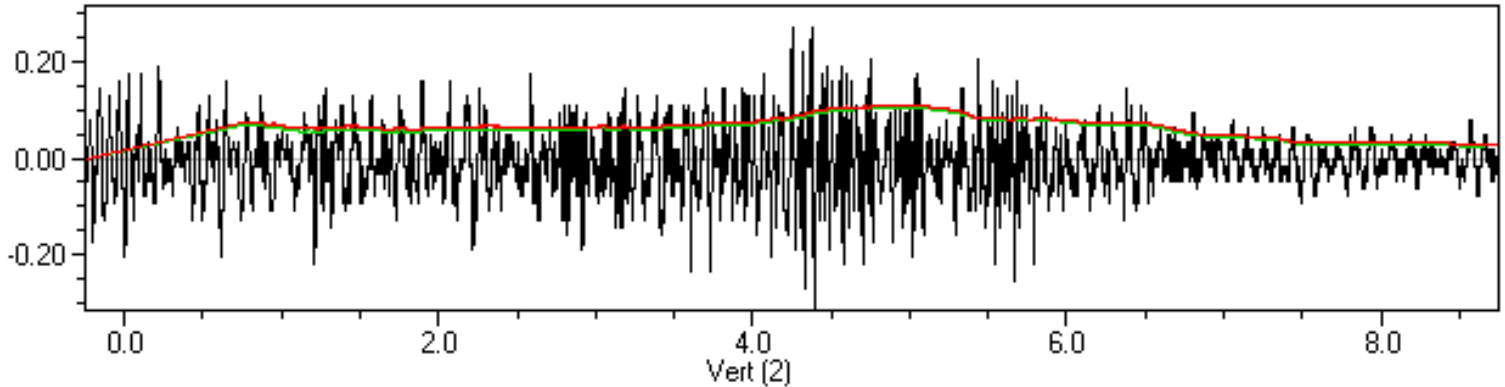
Record Time: 8.75 sec

Sample Rate: 1024 sps

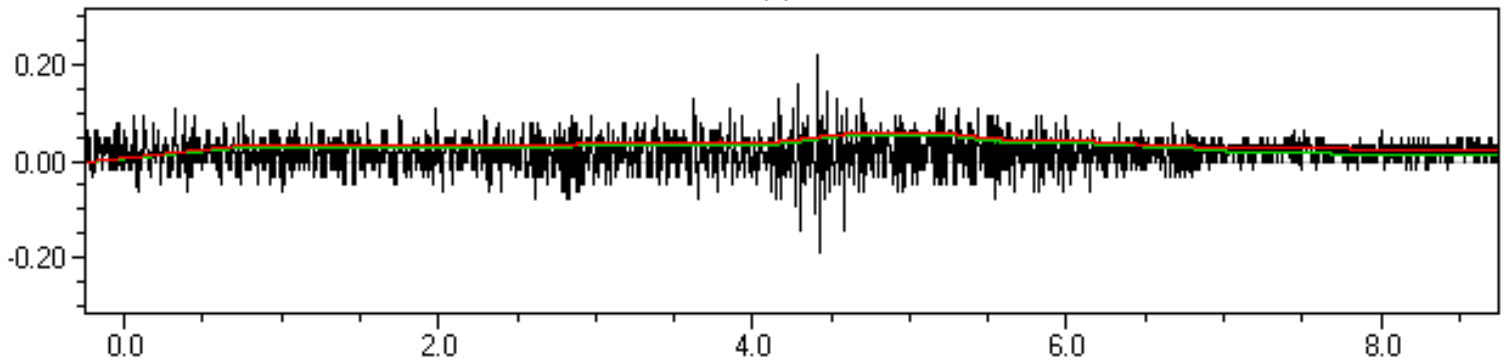
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.270	0.222	0.317	mm/s	
ZC Freq	28	30	22	Hz	
Time of Peak	4.302	4.413	4.394	Sec	
Peak Acceleration	0.00663	0.00663	0.00829	g	
Peak Displacement	0.00171	0.00113	0.00239	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,05	0,10		0,14
RMS (1s)	0,08	0,06	0,11		0,14

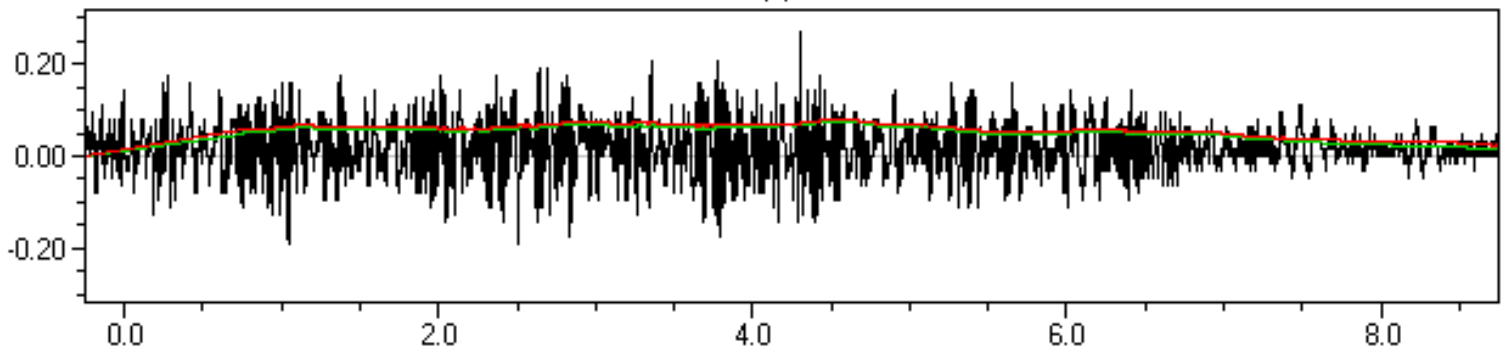
Long (1)



Vert (2)



Tran (3)





Event Date: January 6, 2007

Event Time: 18:34:40

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHMB.LS0

Trigger: Long

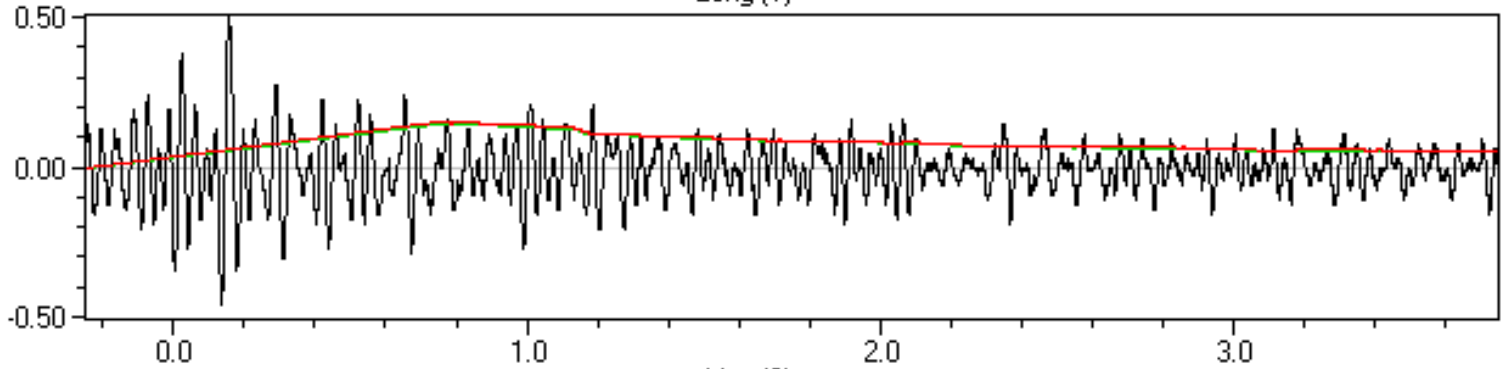
Record Time: 3.75 sec

Sample Rate: 1024 sps

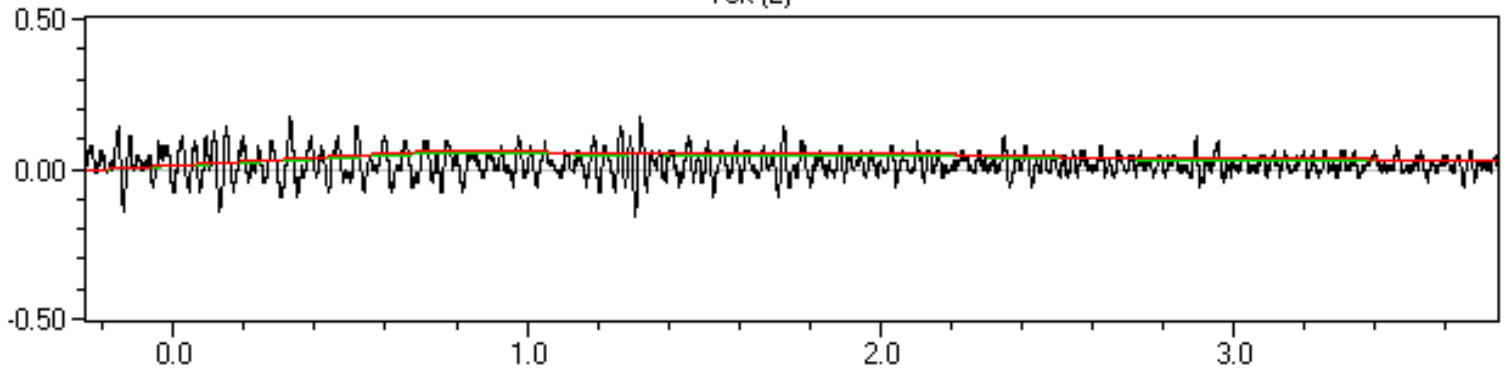
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.365	0.175	0.508	mm/s	
ZC Freq	28	22	20	Hz	
Time of Peak	0.083	0.329	0.157	Sec	
Peak Acceleration	0.00829	0.00663	0.00829	g	
Peak Displacement	0.00204	0.00114	0.00402	mm	rms of magnitude
RMS (1s fw 5.6)	0,13	0,06	0,14		0,20
RMS (1s)	0,13	0,06	0,15		0,21

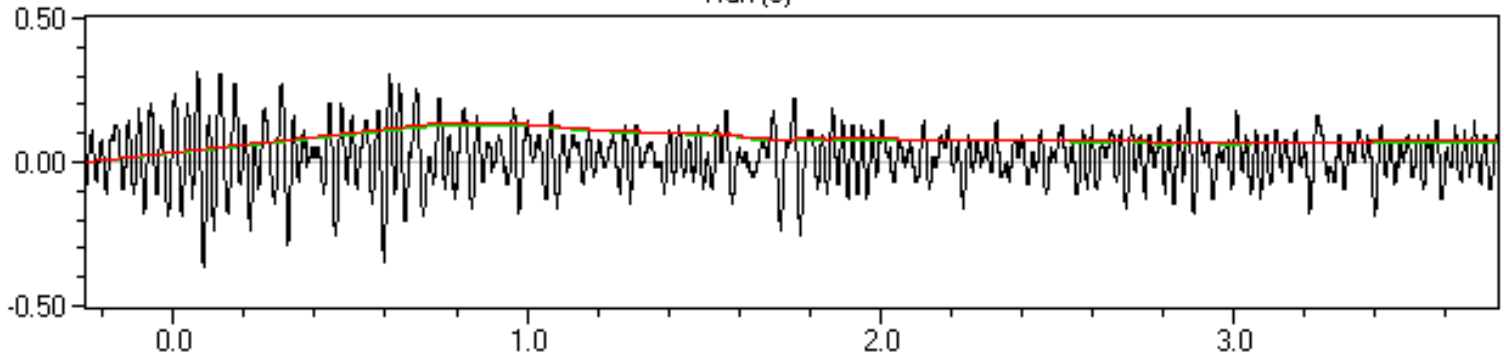
Long (1)



Vert (2)



Tran (3)



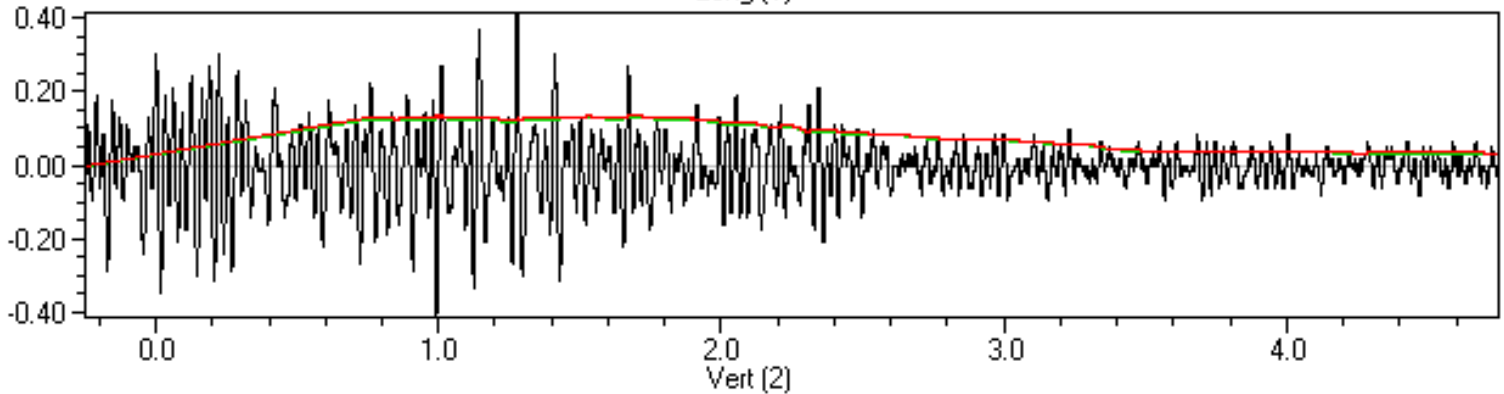


Event Date: January 6, 2007
 Event Time: 22:29:42
 Location: Kirkkonummi Liikennetarina
 Client: SITO
 User Name: Kalliotekniikka CE Oy puh. 0207 437 400
 Job Number: 5296
 Extended Notes:

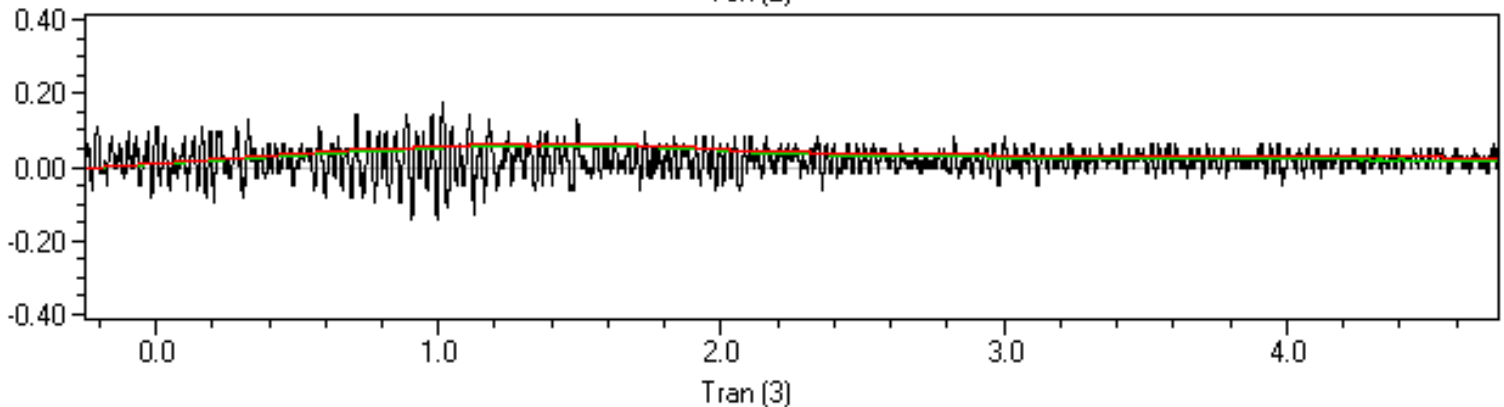
Serial Number: BE10231, V 8.01-8.0 MiniMate Plus
 File Name: L231BHMM.H10
 Trigger: Long
 Record Time: 4.75 sec
 Sample Rate: 1024 sps
 Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.270	0.175	0.413	mm/s	
ZC Freq	27	27	30	Hz	
Time of Peak	0.908	1.014	0.991	Sec	
Peak Acceleration	0.00663	0.00497	0.00994	g	
Peak Displacement	0.00143	0.00106	0.00240	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,06	0,13		0,16
RMS (1s)	0,08	0,06	0,13		0,16

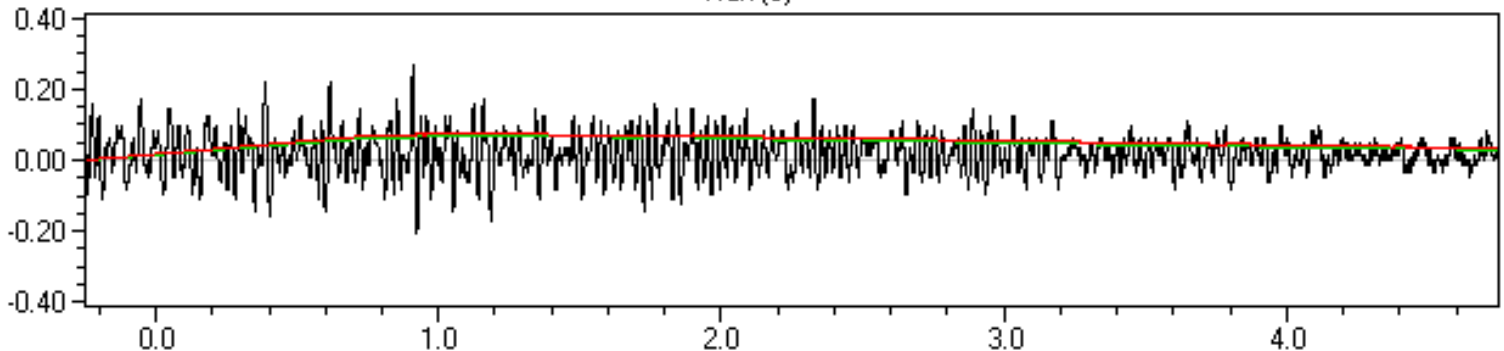
Long (1)



Vert (2)



Tran (3)





Event Date: January 7, 2007

Event Time: 17:42:03

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHO3.U30

Trigger: Tran

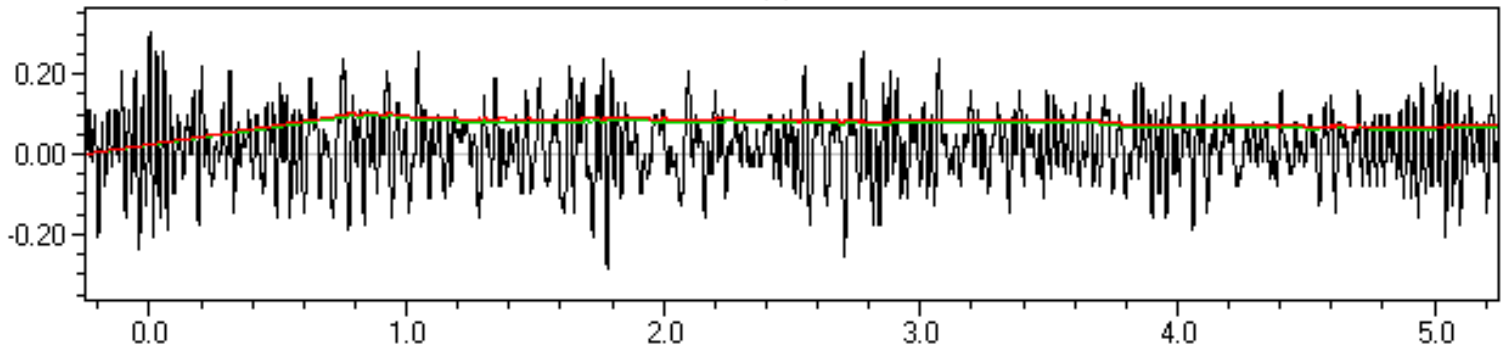
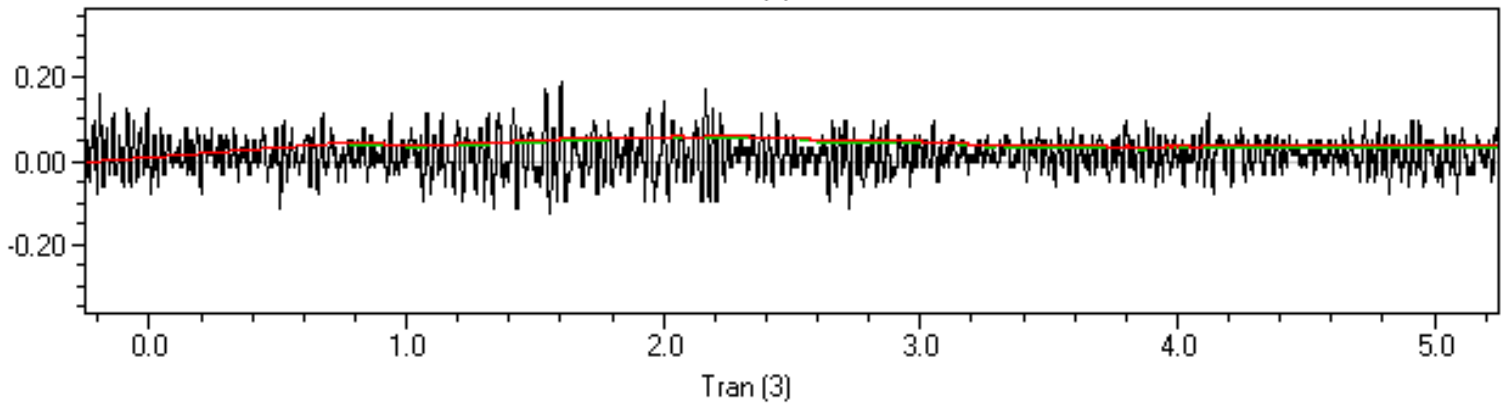
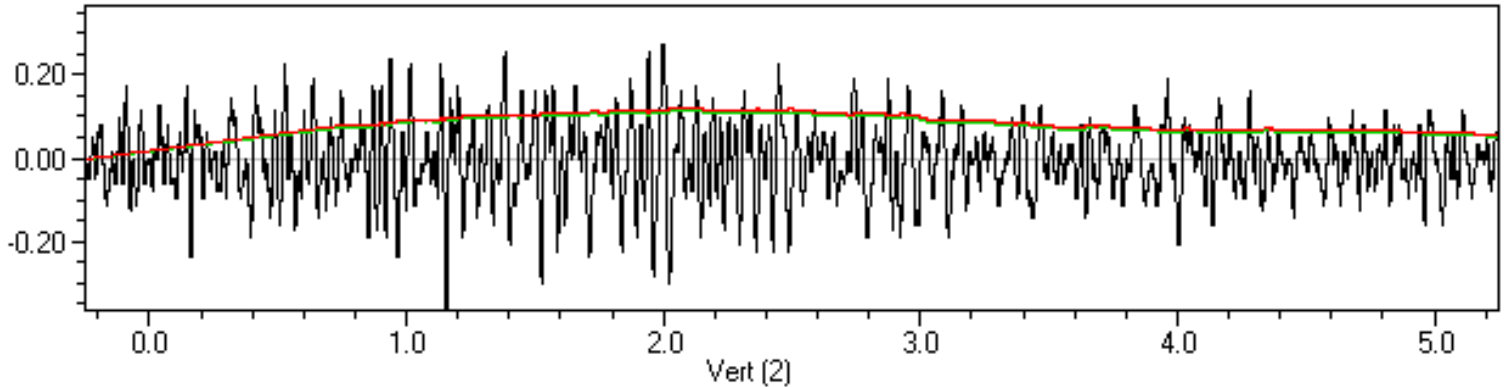
Record Time: 5.25 sec

Sample Rate: 1024 sps

Calibration: May 27, 2005 by InstanTel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.302	0.190	0.365	mm/s	
ZC Freq	28	26	26	Hz	
Time of Peak	0.000	1.601	1.152	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00257	0.00113	0.00278	mm	rms of magnitude
RMS (1s fw 5.6)	0,10	0,06	0,11		0,15
RMS (1s)	0,10	0,06	0,12		0,16

Long (1)





Event Date: January 8, 2007

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

Event Time: 17:52:49

File Name: L231BHPZ.010

Location: Kirkkonummi Liikennetarina

Trigger: Long

Client: SITO

Record Time: 3.25 sec

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Sample Rate: 1024 sps

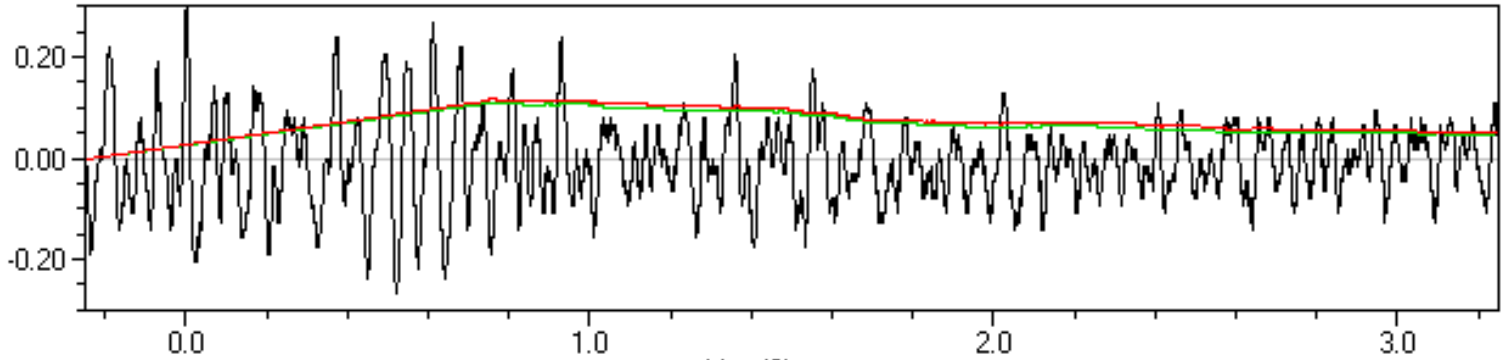
Job Number: 5296

Calibration: May 27, 2005 by Instancel Inc.

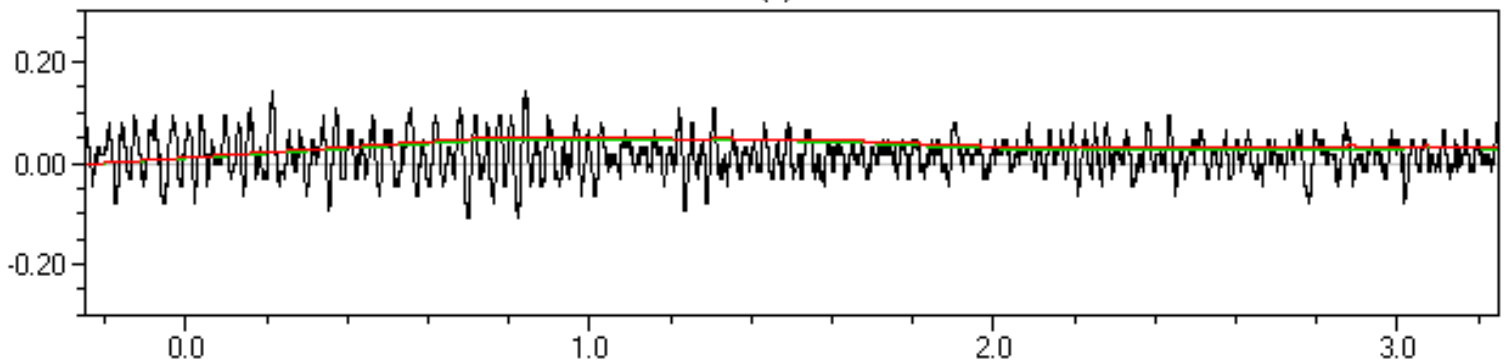
Extended Notes:

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.222	0.143	0.302	mm/s	
ZC Freq	17	26	24	Hz	
Time of Peak	1.280	0.212	0.000	Sec	
Peak Acceleration	0.00497	0.00497	0.00663	g	
Peak Displacement	0.00199	0.00088	0.00255	mm	rms of magnitude
RMS (1s fw 5.6)	0,07	0,05	0,11		0,14
RMS (1s)	0,07	0,05	0,12		0,15

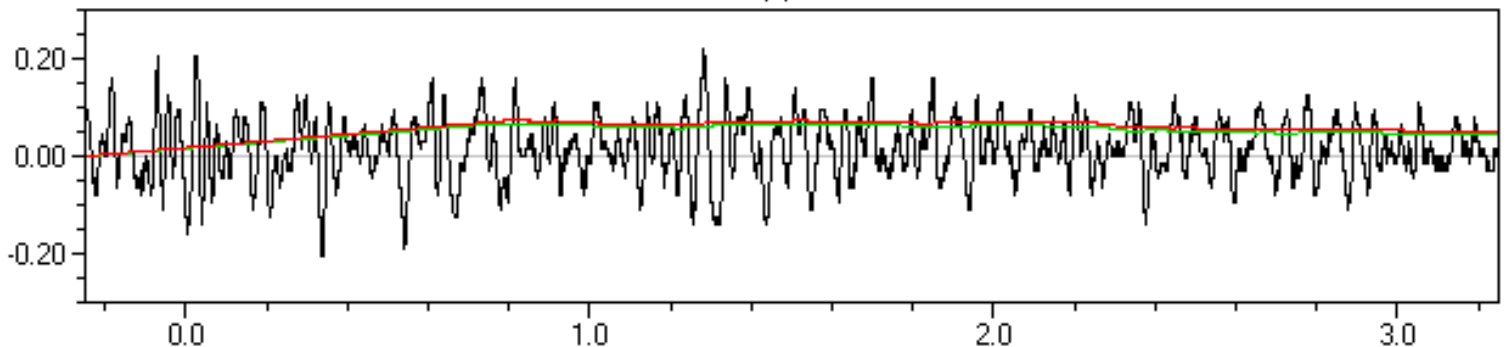
Long (1)



Vert (2)



Tran (3)





Event Date: January 8, 2007

Event Time: 21:27:46

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHQ8.YA0

Trigger: Long

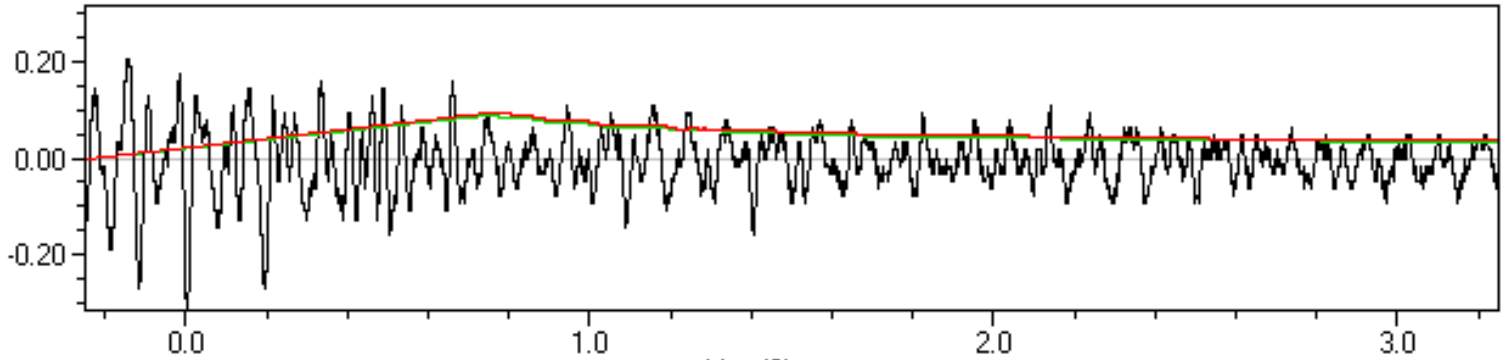
Record Time: 3.25 sec

Sample Rate: 1024 sps

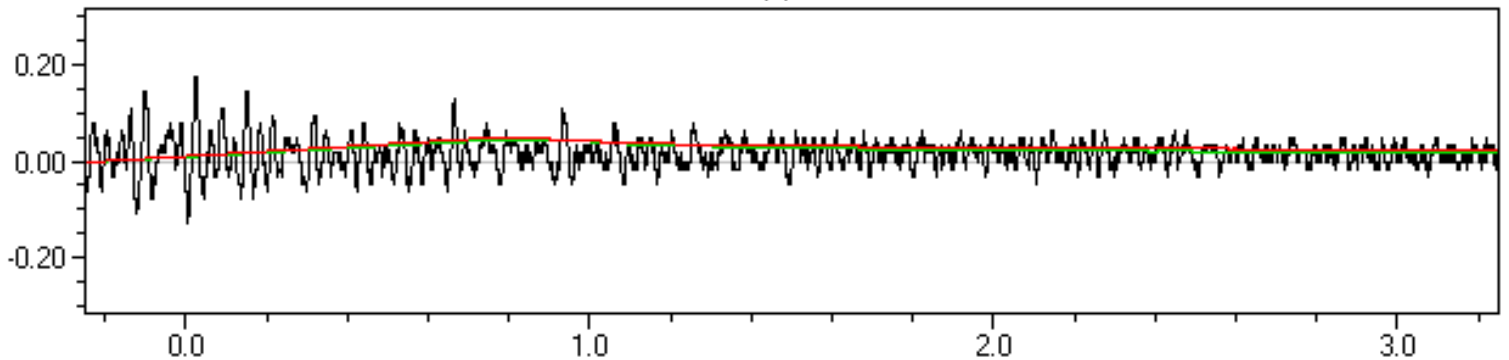
Calibration: May 27, 2005 by Instantal Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.175	0.175	0.317	mm/s	
ZC Freq	26	23	22	Hz	
Time of Peak	-0.125	0.021	0.001	Sec	
Peak Acceleration	0.00663	0.00663	0.00497	g	
Peak Displacement	0.00112	0.00106	0.00236	mm	rms of magnitude
RMS (1s fw 5.6)	0,06	0,05	0,09		0,11
RMS (1s)	0,06	0,05	0,09		0,12

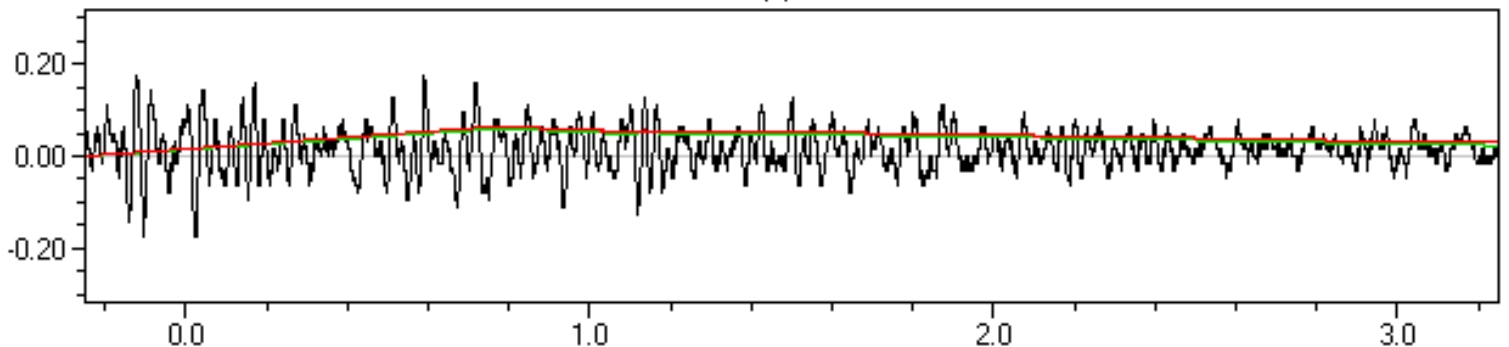
Long (1)



Vert (2)



Tran (3)





Event Date: January 10, 2007

Event Time: 10:28:03

Location: Kirkkonummi Liikennetarina

Client: SITO

User Name: Kalliotekniikka CE Oy puh. 0207 437 400

Job Number: 5296

Extended Notes:

Serial Number: BE10231, V 8.01-8.0 MiniMate Plus

File Name: L231BHT3.QR0

Trigger: Long

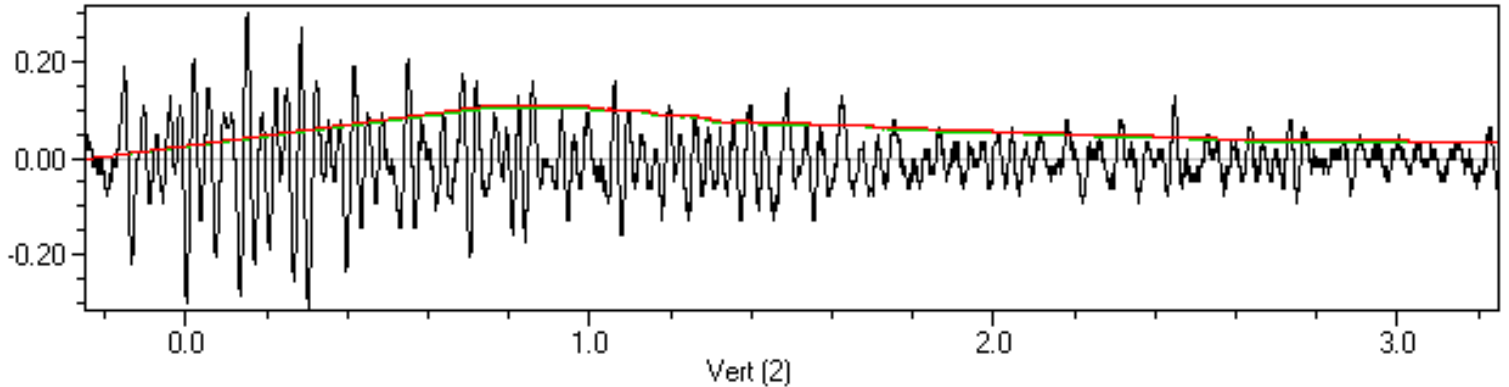
Record Time: 3.25 sec

Sample Rate: 1024 sps

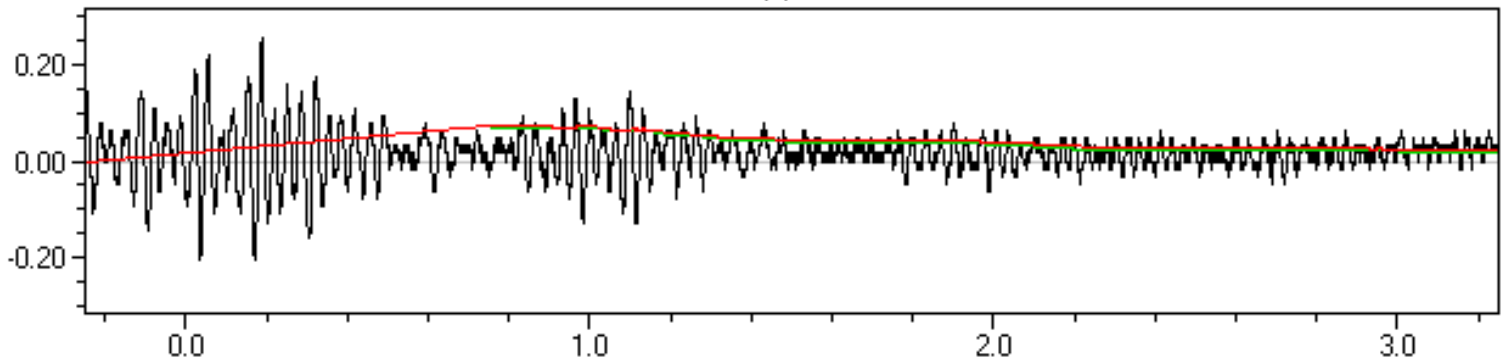
Calibration: May 27, 2005 by Instancel Inc.

	<i>tran</i>	<i>vert</i>	<i>long</i>		
PPV	0.270	0.254	0.317	mm/s	
ZC Freq	24	27	23	Hz	
Time of Peak	0.033	0.187	0.302	Sec	
Peak Acceleration	0.00663	0.00663	0.00663	g	
Peak Displacement	0.00166	0.00131	0.00202	mm	rms of magnitude
RMS (1s fw 5.6)	0,08	0,07	0,11		0,15
RMS (1s)	0,09	0,07	0,11		0,15

Long (1)



Vert (2)



Tran (3)

