

Project information		Coordinate System	
Name:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj.vce	Name:	UTM
Size:	14 MB	Datum:	NAD 1983 (Conus)
Modified:	4/11/2012 3:30:45 PM (UTC:-6)	Zone:	14 North (99W)
Time zone:	Mountain Standard Time	Geoid:	GEOID09 (Conus)
Reference number:		Vertical datum:	
Description:			

Baseline Processing Report



Processing Summary

Observation	From	To	Solution Type	H. Prec. (Meter)	V. Prec. (Meter)	Geodetic Az.	Ellipsoid Dist. (Meter)	<Y][\h fA YHYfL
JH0456 --- SVA16-B2 (B102)	JH0456	SVA16-B2	Fixed	0.010	0.017	59°44'51"	18514.631	-15.278
JH0456 --- FVA16-B2 (B103)	JH0456	FVA16-B2	Fixed	0.010	0.016	59°43'26"	18482.819	-15.297
JH0456 --- SVA14-B2 (B104)	JH0456	SVA14-B2	Fixed	0.011	0.014	124°57'34"	21850.205	-7.560
JH0456 --- FVA14-B2 (B105)	JH0456	FVA14-B2	Fixed	0.010	0.016	125°02'50"	21894.091	-7.485
JH0456 --- SVA09-B2 (B106)	JH0456	SVA09-B2	Fixed	0.009	0.017	131°53'12"	10870.805	5.848
JH0456 --- SVA15-B2 (B107)	JH0456	SVA15-B2	Fixed	0.012	0.013	105°27'01"	16706.799	-12.296
JH0456 --- FVA15-B2 (B108)	JH0456	FVA15-B2	Fixed	0.021	0.017	105°35'50"	16681.620	-11.912
JH0456 --- FVA09-B2 (B109)	JH0456	FVA09-B2	Fixed	0.013	0.017	133°10'10"	11152.461	5.942
JH0456 --- SVA05-B2 (B110)	JH0456	SVA05-B2	Fixed	0.007	0.016	310°24'25"	2132.935	4.318
JH0456 --- FVA05-B2 (B111)	JH0456	FVA05-B2	Fixed	0.003	0.006	242°12'56"	816.223	1.339
JH0456 --- FVA08-B2 (B117)	JH0456	FVA08-B2	Fixed	0.012	0.013	199°47'47"	18578.732	0.452

JH0456 --- SVA08-B2 (B119)	JH0456	SVA08-B2	Fixed	0.013	0.014	199°53'35"	18641.463	0.743
JH0456 --- FVA07-B2 (B121)	JH0456	FVA07-B2	Fixed	0.009	0.016	227°17'43"	30438.092	57.720
JH0456 --- SVA07-B2 (B123)	JH0456	SVA07-B2	Fixed	0.010	0.016	227°24'59"	30387.361	56.706
JH0456 --- FVA06-B2 (B125)	JH0456	FVA06-B2	Fixed	0.010	0.013	260°00'45"	22846.128	65.930
JH0456 --- SVA06-B2 (B127)	JH0456	SVA06-B2	Fixed	0.009	0.013	259°55'04"	22878.124	65.819
JH0456 --- FVA02-B2 (B129)	JH0456	FVA02-B2	Fixed	0.009	0.014	283°17'41"	24725.463	70.917
JH0456 --- SVA02-B2 (B131)	JH0456	SVA02-B2	Fixed	0.020	0.034	283°26'56"	24779.441	70.964
JH0456 --- FVA50-B2 (B133)	JH0456	FVA50-B2	Fixed	0.011	0.015	31°25'05"	21288.848	-8.156
JH0456 --- FVA17-B2 (B134)	JH0456	FVA17-B2	Fixed	0.021	0.026	44°44'49"	27397.396	-25.503
JH0456 --- SVA04-B2 (B135)	JH0456	SVA04-B2	Fixed	0.016	0.024	3°32'41"	24449.184	15.045
JH0456 --- FVA03-B2 (B137)	JH0456	FVA03-B2	Fixed	0.015	0.014	334°38'39"	30652.202	-2.998
JH0456 --- FVA51-B2 (B138)	JH0456	FVA51-B2	Fixed	0.010	0.013	334°50'58"	22637.932	38.299
JH0456 --- SVA50-B2 (B140)	JH0456	SVA50-B2	Fixed	0.027	0.024	30°02'38"	21839.169	-9.164
JH0456 --- SVA17-B2 (B142)	JH0456	SVA17-B2	Fixed	0.022	0.033	44°47'36"	27459.943	-25.836
JH0456 --- SVA04-B2-EXTRA (B144)	JH0456	SVA04-B2-EXTRA	Fixed	0.013	0.017	3°12'22"	26031.066	13.552
JH0456 --- SVA51-B2 (B146)	JH0456	SVA51-B2	Fixed	0.010	0.013	334°38'22"	21750.169	36.800
JH0456 --- SVA03-B2 (B148)	JH0456	SVA03-B2	Fixed	0.019	0.016	334°07'31"	30071.346	-0.587
JH0456 --- FVA22-B2 (B149)	JH0456	FVA22-B2	Fixed	0.101	0.074	114°40'25"	63789.757	-108.158
JH0456 --- FVA21-B2 (B150)	JH0456	FVA21-B2	Fixed	0.014	0.014	114°48'48"	53096.380	-99.664
JH0456 --- FVA52-B2 (B151)	JH0456	FVA52-B2	Fixed	0.020	0.015	130°00'35"	42279.927	-48.023
JH0456 --- FVA13-B2 (B152)	JH0456	FVA13-B2	Fixed	0.010	0.015	143°09'47"	29824.191	-21.034
JH0456 --- FVA10-B2 (B153)	JH0456	FVA10-B2	Fixed	0.013	0.018	162°22'34"	25054.594	-8.762
JH0456 --- FVA49-B2 (B154)	JH0456	FVA49-B2	Fixed	0.009	0.012	315°30'35"	34384.841	36.821
JH0456 --- SVA21-B2 (B158)	JH0456	SVA21-B2	Fixed	0.014	0.017	115°11'10"	52493.019	-95.107
JH0456 --- SVA52-B2 (B160)	JH0456	SVA52-B2	Fixed	0.021	0.024	130°05'50"	42260.000	-47.888

JH0456 --- SVA13-B2 (B162)	JH0456	SVA13-B2	Fixed	0.011	0.014	143°11'17"	29846.284	-20.320
JH0456 --- SVA10-B2 (B164)	JH0456	SVA10-B2	Fixed	0.012	0.013	158°12'41"	25659.784	-26.276
JH0456 --- SVA49-B2 (B166)	JH0456	SVA49-B2	Fixed	0.012	0.017	314°04'14"	33472.186	68.601
JH0456 --- SVA22-B2 (B170)	JH0456	SVA22-B2	Fixed	0.027	0.017	113°53'24"	62958.918	-84.494
JH0456 --- FVA48-B2 (B171)	JH0456	FVA48-B2	Fixed	0.043	0.064	100°38'10"	37548.907	-49.280
JH0456 --- FVA20-B2 (B172)	JH0456	FVA20-B2	Fixed	0.014	0.057	85°51'51"	47998.059	-77.894
JH0456 --- FVA19-B2 (B173)	JH0456	FVA19-B2	Fixed	0.020	0.023	74°39'28"	43831.665	-63.049
JH0456 --- FVA18-B2 (B174)	JH0456	FVA18-B2	Fixed	0.010	0.011	66°11'10"	54804.403	-88.798
JH0456 --- FVA29-B1 (B176)	JH0456	FVA29-B1	Fixed	0.105	0.141	238°22'15"	42315.297	92.732
JH0456 --- FVA71-B1 (B177)	JH0456	FVA71-B1	Fixed	0.012	0.023	215°45'52"	29432.630	31.551
JH0456 --- SVA48-B2 (B179)	JH0456	SVA48-B2	Fixed	0.022	0.036	100°35'06"	37605.408	-49.091
JH0456 --- SVA20-B2 (B181)	JH0456	SVA20-B2	Fixed	0.036	0.107	85°49'57"	48009.574	-77.890
JH0456 --- SVA19-B2 (B183)	JH0456	SVA19-B2	Fixed	0.076	0.073	74°43'25"	43816.402	-63.074
JH0456 --- SVA18-B2 (B185)	JH0456	SVA18-B2	Fixed	0.017	0.022	66°06'29"	54810.602	-88.914
JH0456 --- SVA02-B1 (B187)	JH0456	SVA02-B1	Fixed	0.022	0.050	216°00'12"	29405.717	32.376
JH0456 --- SVA29-B1 (B189)	JH0456	SVA29-B1	Fixed	0.025	0.029	240°40'57"	45475.365	101.445
JH0231 --- SVA03-B1 (B211)	JH0231	SVA03-B1	Fixed	0.010	0.018	323°20'06"	15939.719	44.269
JH0231 --- FVA03-B1 (B212)	JH0231	FVA03-B1	Fixed	0.033	0.040	323°39'56"	16015.270	44.318
JH0231 --- SVA06-B1 (B213)	JH0231	SVA06-B1	Fixed	0.012	0.013	263°52'54"	8126.493	22.068
JH0231 --- FVA06-B1 (B214)	JH0231	FVA06-B1	Fixed	0.012	0.013	263°35'02"	8022.557	21.231
JH0231 --- SVA21-B1 (B215)	JH0231	SVA21-B1	Fixed	0.006	0.010	111°20'11"	3493.103	-1.896
JH0231 --- FVA21-B1 (B216)	JH0231	FVA21-B1	Fixed	0.006	0.010	116°13'01"	3641.470	-5.331

Acceptance Summary

Processed	Passed	Flag 	Fail 
58	57	1	0

JH0456 - SVA16-B2 (3:18:24 PM-3:38:13 PM) (S102)

Baseline observation:	JH0456 --- SVA16-B2 (B102)
Processed:	3/21/2012 12:13:39 PM
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.010 m
Vertical precision:	0.017 m
RMS:	0.002 m
Maximum PDOP:	2.455
Ephemeris used:	Broadcast
Antenna model:	US National Geodetic Survey Calibration
Processing start time:	2/11/2012 3:18:24 PM (Local: UTC-7hr)
Processing stop time:	2/11/2012 3:38:13 PM (Local: UTC-7hr)
Processing duration:	00:19:48
Processing interval:	.5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.763 m	Latitude	N38°28'46.37633"	Latitude	N38°28'46.37633"
Northing	4260713.922 m	Longitude	W100°53'19.04161"	Longitude	W100°53'19.04161"
Elevation	911.169 m	Height	886.253 m	Height	886.253 m

To:	SVA16-B2				
Grid		Local		Global	
Easting	351442.533 m	Latitude	N38°33'48.36696"	Latitude	N38°33'48.36696"
Northing	4269710.574 m	Longitude	W100°42'18.43965"	Longitude	W100°42'18.43965"
Elevation	896.100 m	Height	870.975 m	Height	870.975 m

Vector					
9Ughb[	16179.770 m	NS Fwd Azimuth	59°44'51"	L	16810.171 m
Bcfh\jb[	8996.651 m	Ellipsoid Dist.	18514.631 m	M	2711.266 m
9Yj Uhjcb	-15.070 m	<Y][\h	-15.278 m	N	7276.894 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.003 m	Point Type	0.006 m
Point ID	0.009 m	Point Description	0.009 m	Point Type	0.007 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000106483		
Y	0.0000097683	0.0000369966	
Z	-0.0000072146	-0.0000316659	0.0000548687

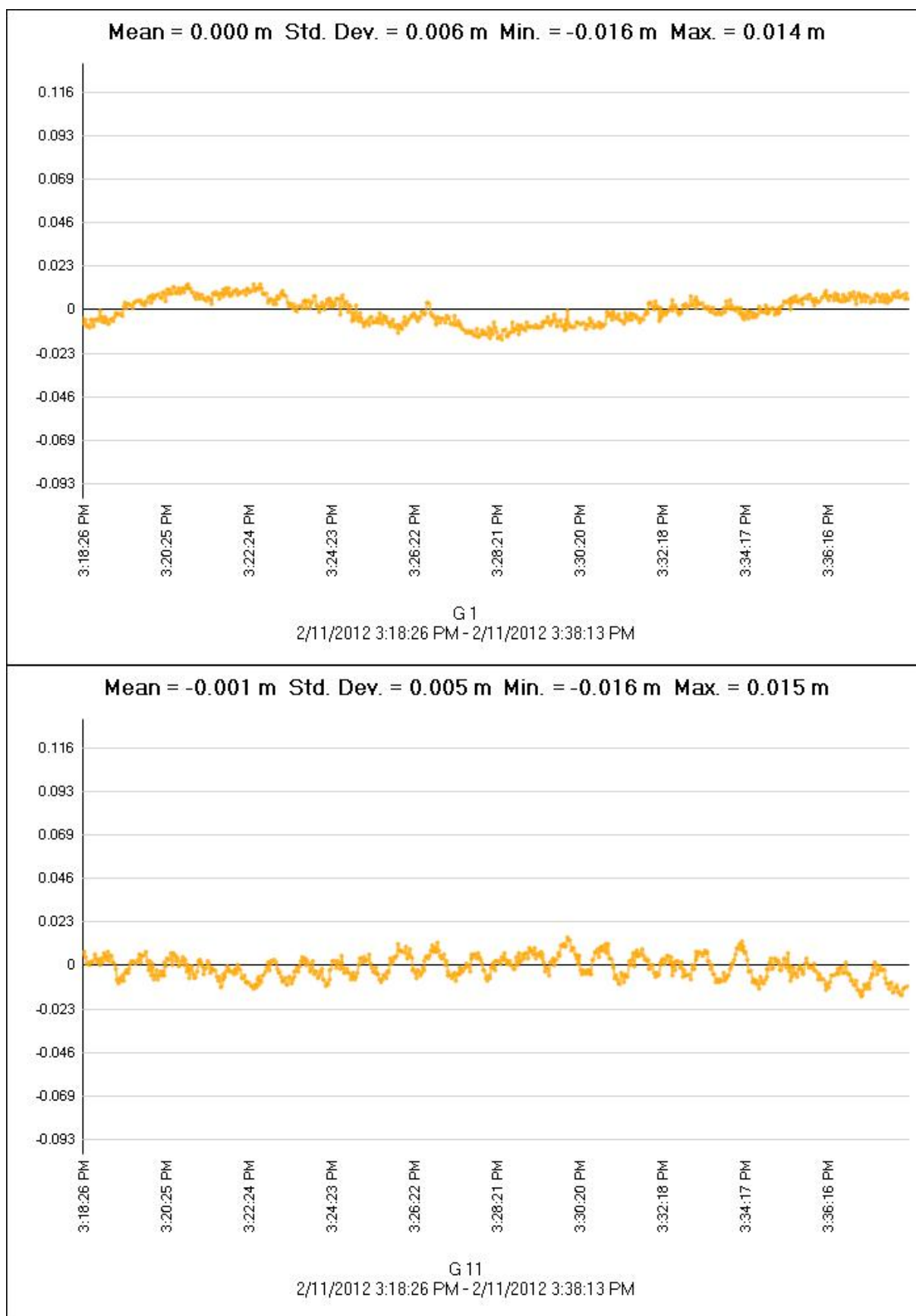
Occupations

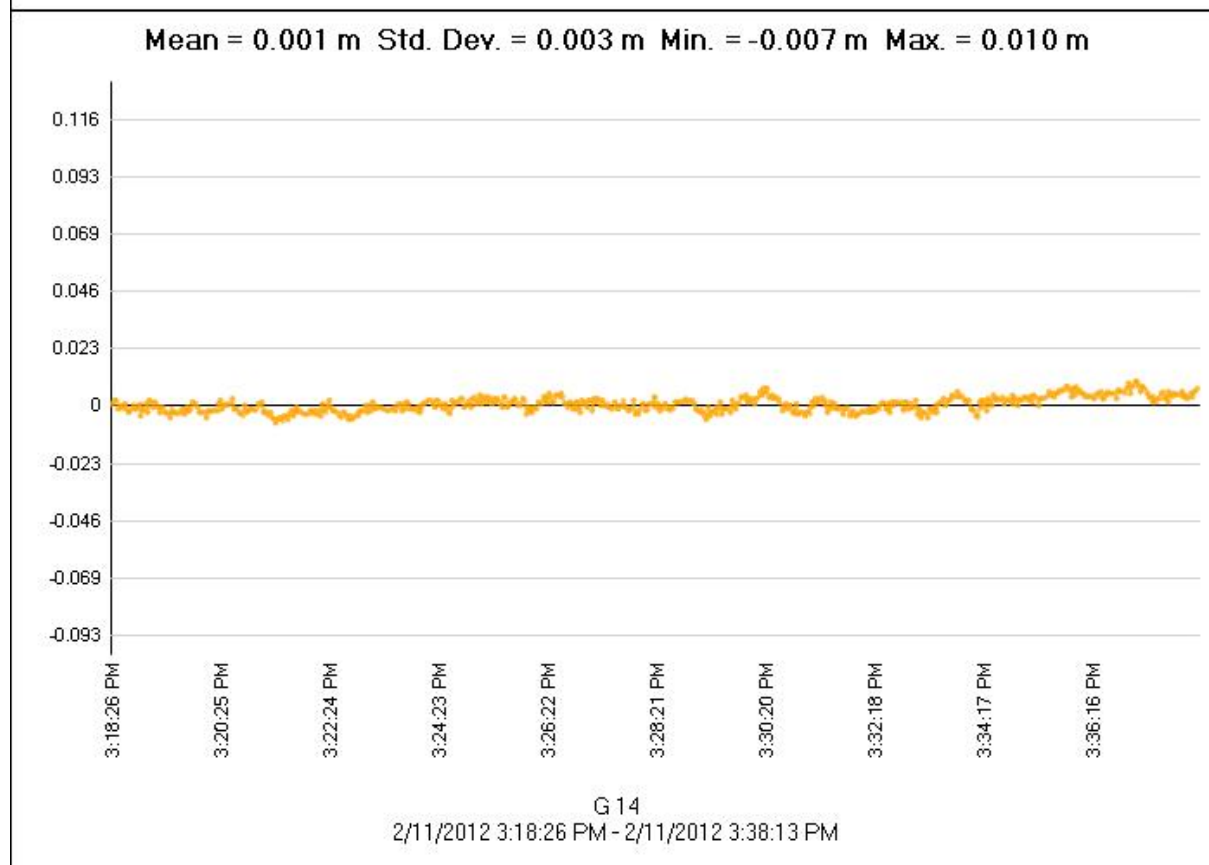
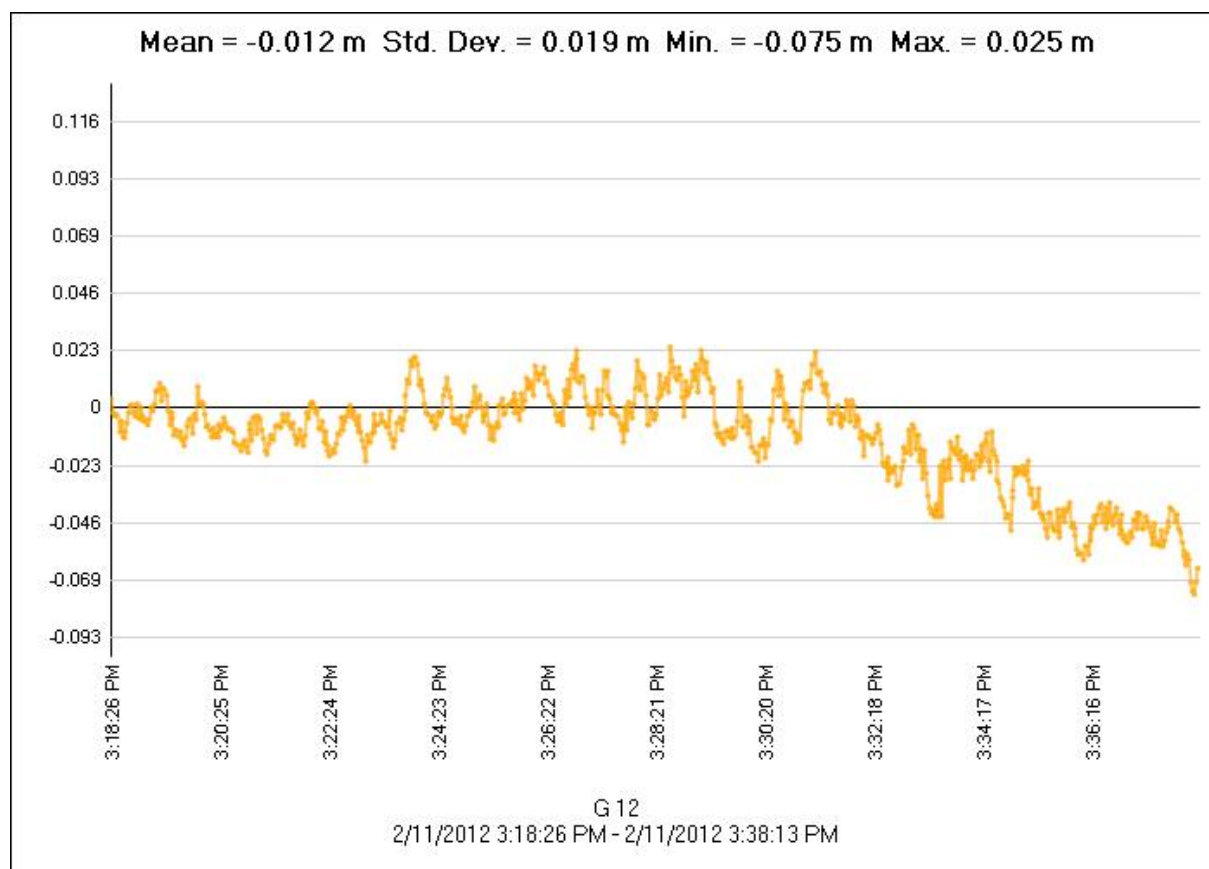
	From	To
Point ID:	JH0456	SVA16-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080429.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

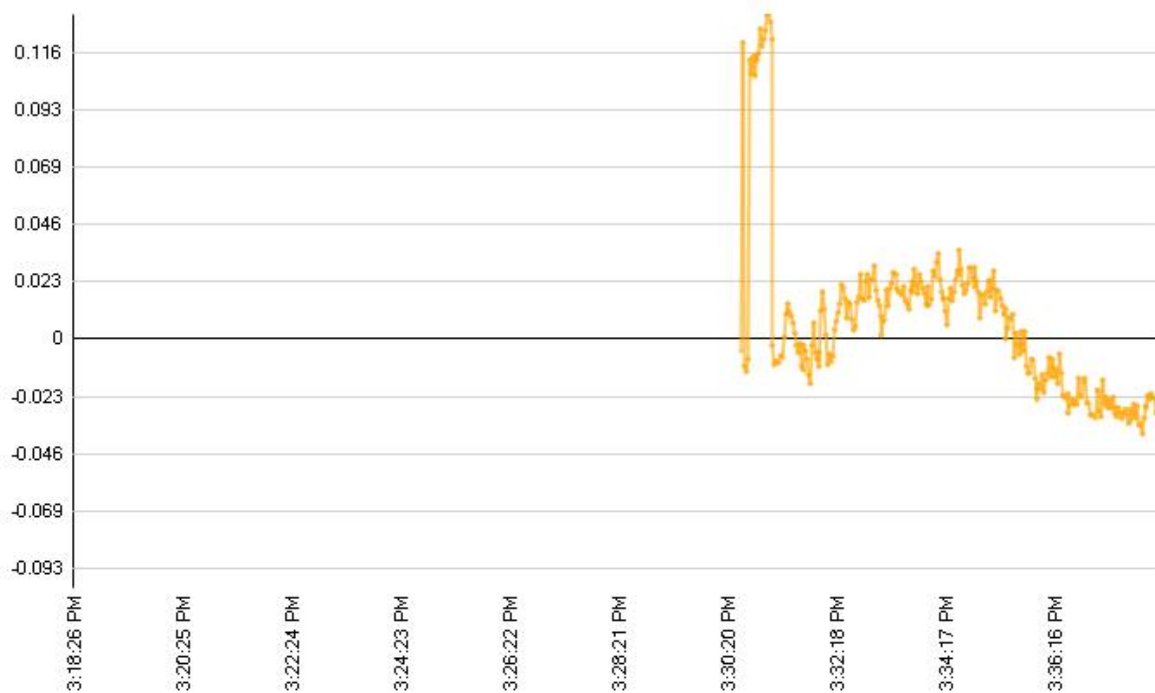
SV	2/11/2012 3:18:24 PM	Duration: 00:19:48.5000000	Major interval: 00:01:00	2/11/2012 3:38:13 PM
G 1	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 18	L1 L2			
G 20	L1 L2			
G 22	L1 L2			
G 25	L1 L2			
G 30	L1 L2			
G 31	L1 L2			
G 32	L1 L2			

Residuals





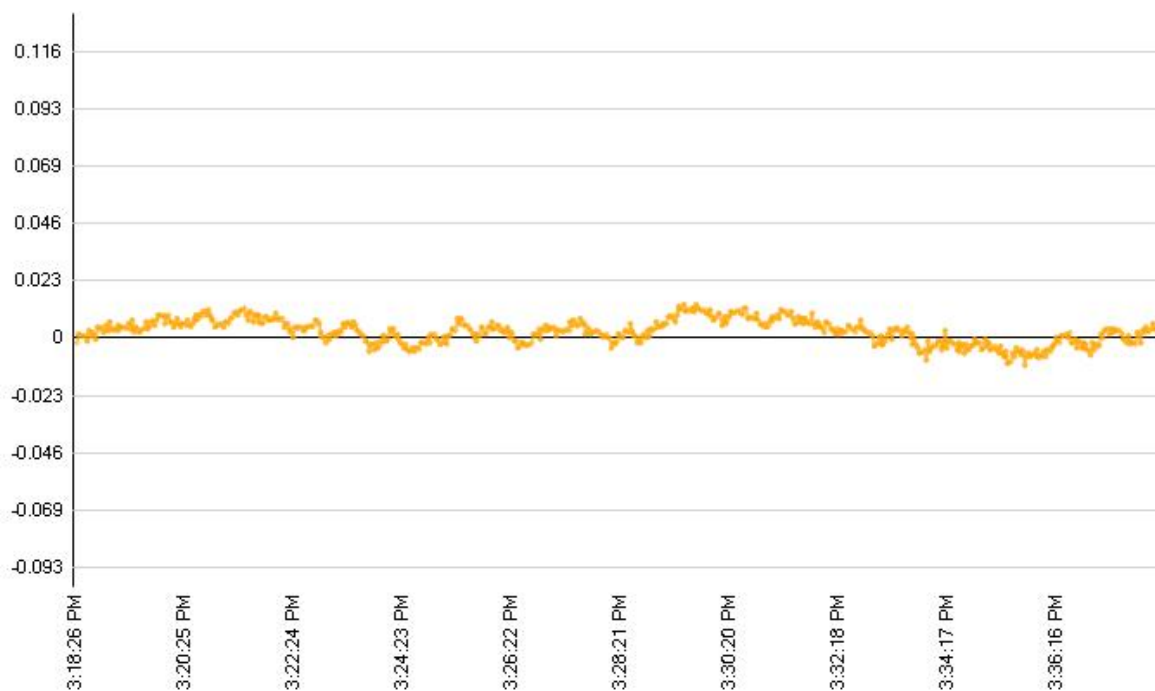
Mean = 0.006 m Std. Dev. = 0.033 m Min. = -0.038 m Max. = 0.131 m



G 20

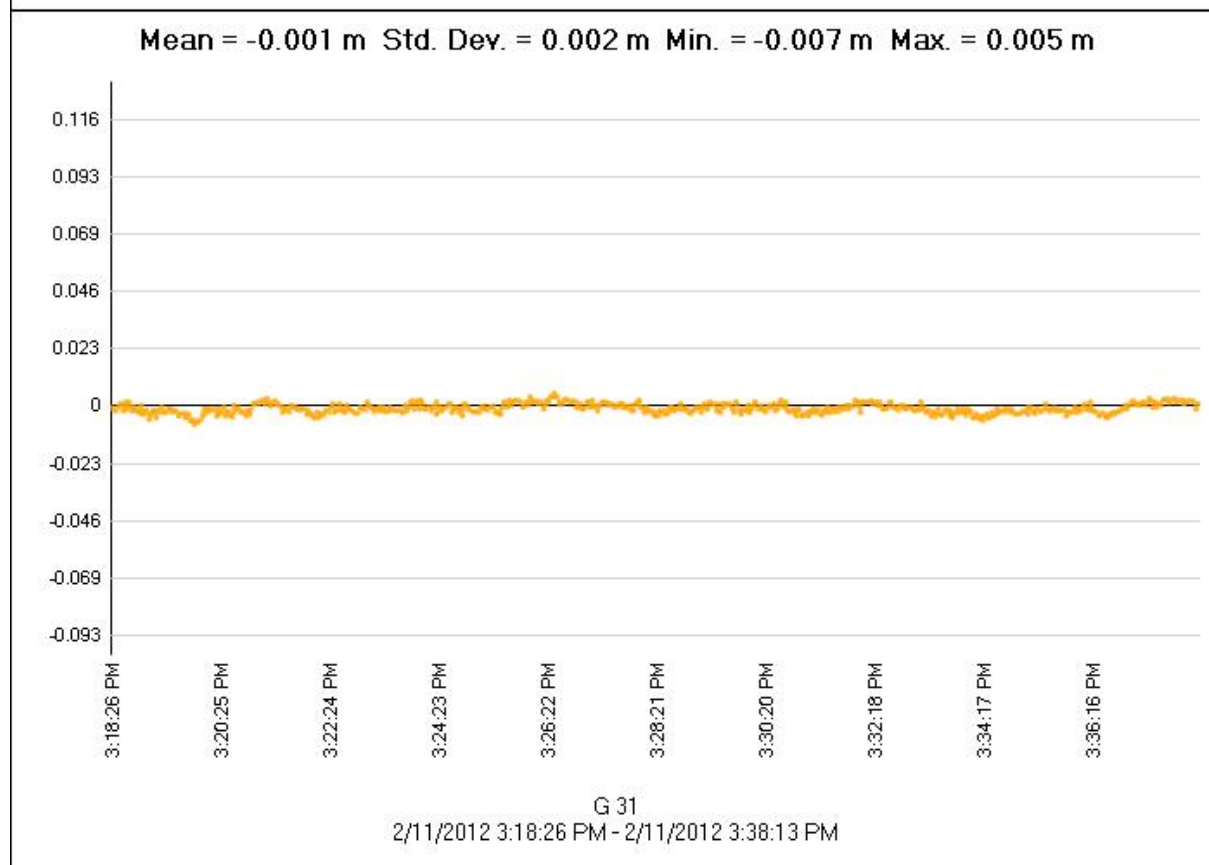
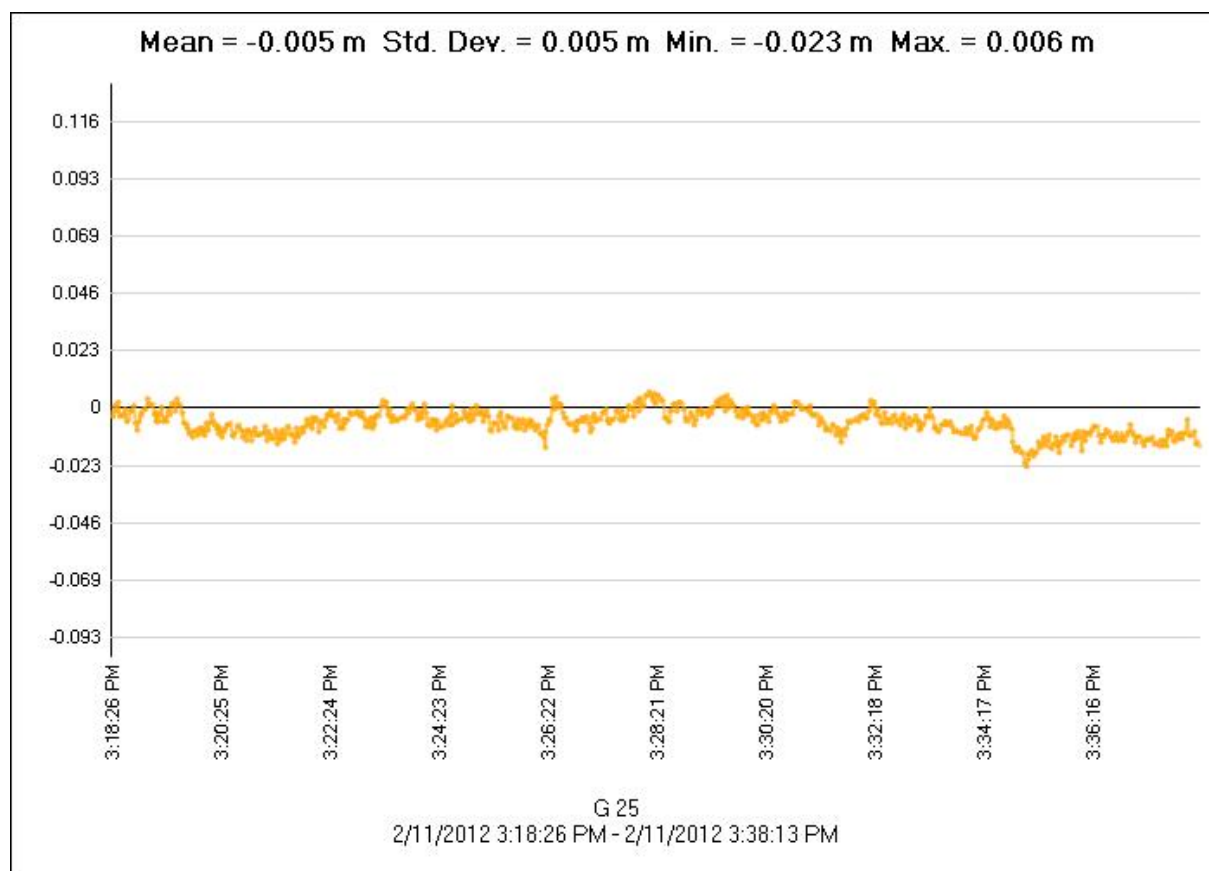
2/11/2012 3:18:26 PM - 2/11/2012 3:38:13 PM

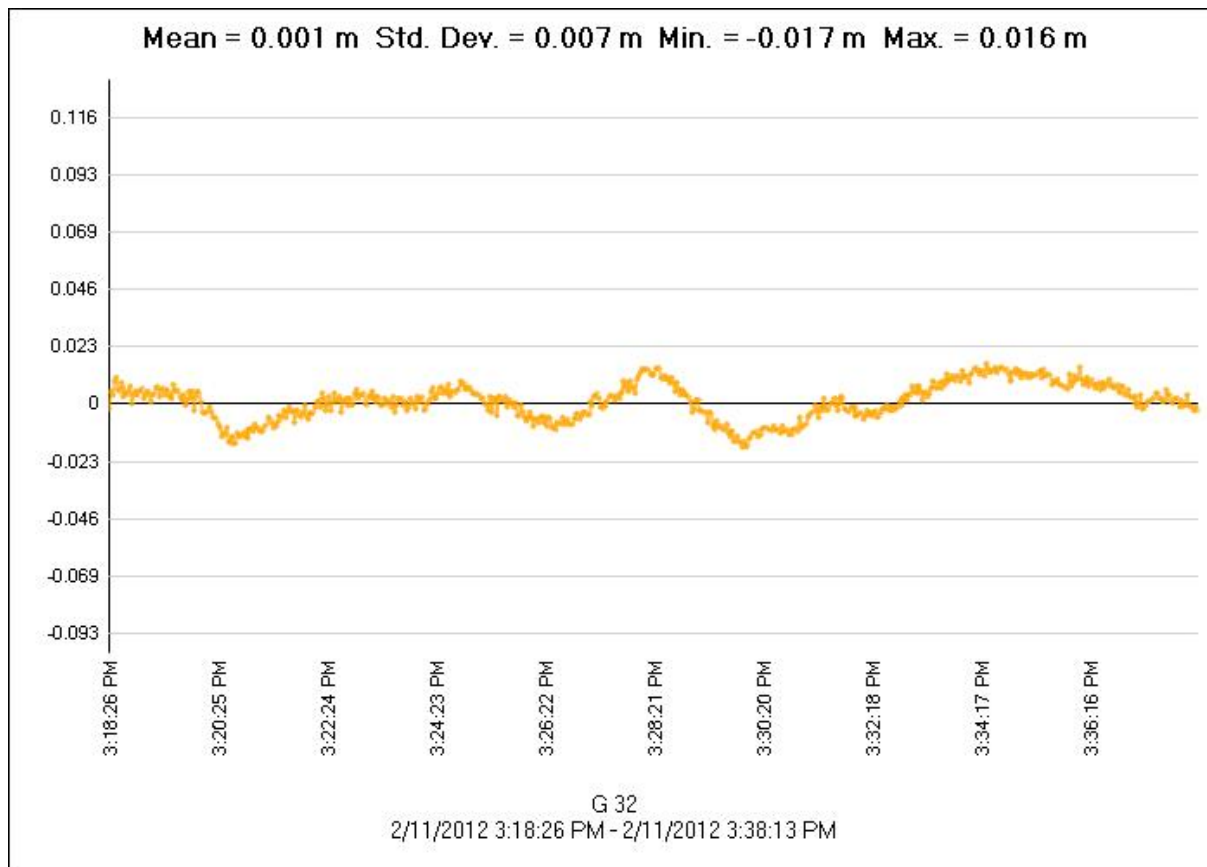
Mean = 0.003 m Std. Dev. = 0.004 m Min. = -0.011 m Max. = 0.013 m



G 22

2/11/2012 3:18:26 PM - 2/11/2012 3:38:13 PM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: JH0456 --- FVA16-B2 (B103)

Processed: 3/21/2012 12:13:45 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.016 m

RMS: 0.003 m

Maximum PDOP: 2.434

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/11/2012 2:54:58 PM (Local: UTC-7hr)

Processing stop time: 2/11/2012 3:14:23 PM (Local: UTC-7hr)

Processing duration: 00:19:24

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.763 m	Latitude	N38°28'46.37633"	Latitude	N38°28'46.37633"
Northing	4260713.922 m	Longitude	W100°53'19.04161"	Longitude	W100°53'19.04161"
Elevation	911.169 m	Height	886.253 m	Height	886.253 m

To:	FVA16-B2				
Grid		Local		Global	
Easting	351411.028 m	Latitude	N38°33'48.06274"	Latitude	N38°33'48.06273"
Northing	4269701.777 m	Longitude	W100°42'19.73415"	Longitude	W100°42'19.73415"
Elevation	896.080 m	Height	870.956 m	Height	870.956 m

Vector					
9Ughb[	16148.266 m	NS Fwd Azimuth	59°43'26"	L	16778.288 m
Bcfh\jb[	8987.855 m	Ellipsoid Dist.	18482.819 m	M	2711.357 m
9`Yj Uhcb	-15.089 m	<Y][\h	-15.297 m	N	7269.546 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.004 m
Bcfh\]b[	0.004 m	'9~]dgc]X'8]gh	0.004 m	M	0.006 m
'9`Yj Uhcb	0.008 m	' <Y][\h	0.008 m	N	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000136714		
Y	0.0000114471	0.0000361398	
Z	-0.0000064128	-0.0000247623	0.0000394724

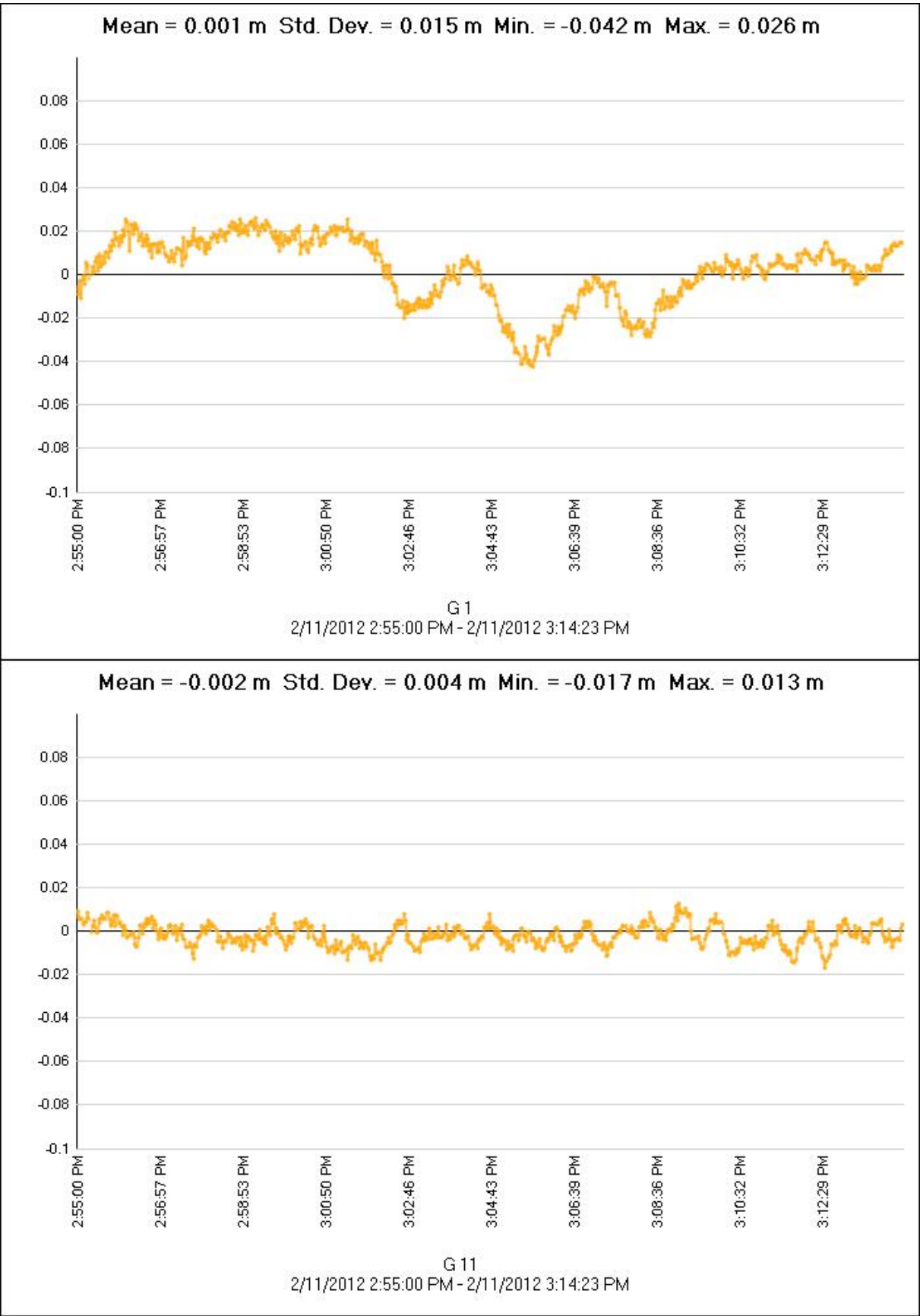
Occupations

	From	To
Point ID:	JH0456	FVA16-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00080428.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/11/2012 2:54:58 PM	Duration: 00:19:24.5000000	Major interval: 00:01:00	2/11/2012 3:14:23 PM
G1	L1			
G1	L2			
G11	L1			
G11	L2			
G12	L1			
G12	L2			
G14	L1			
G14	L2			
G18	L1			
G18	L2			
G19	L1			
G19	L2			
G20	L1			
G20	L2			
G22	L1			
G22	L2			
G25	L1			
G25	L2			
G30	L1			
G30	L2			
G31	L1			
G31	L2			
G32	L1			
G32	L2			

Residuals

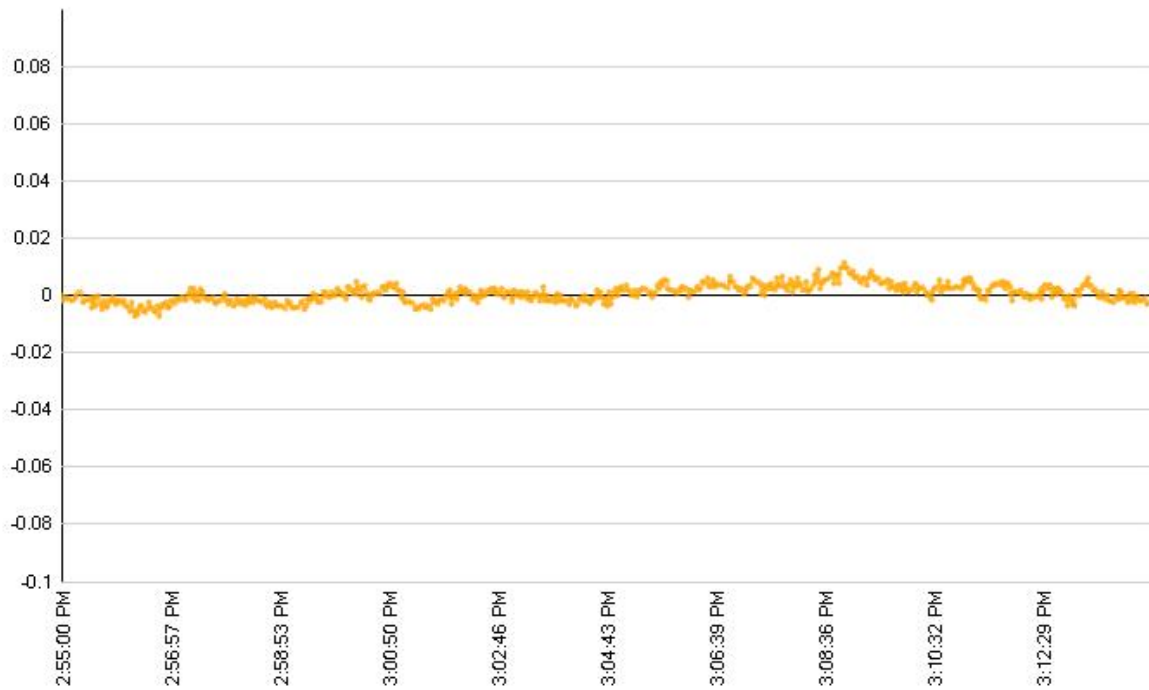


Mean = -0.018 m Std. Dev. = 0.012 m Min. = -0.053 m Max. = 0.011 m

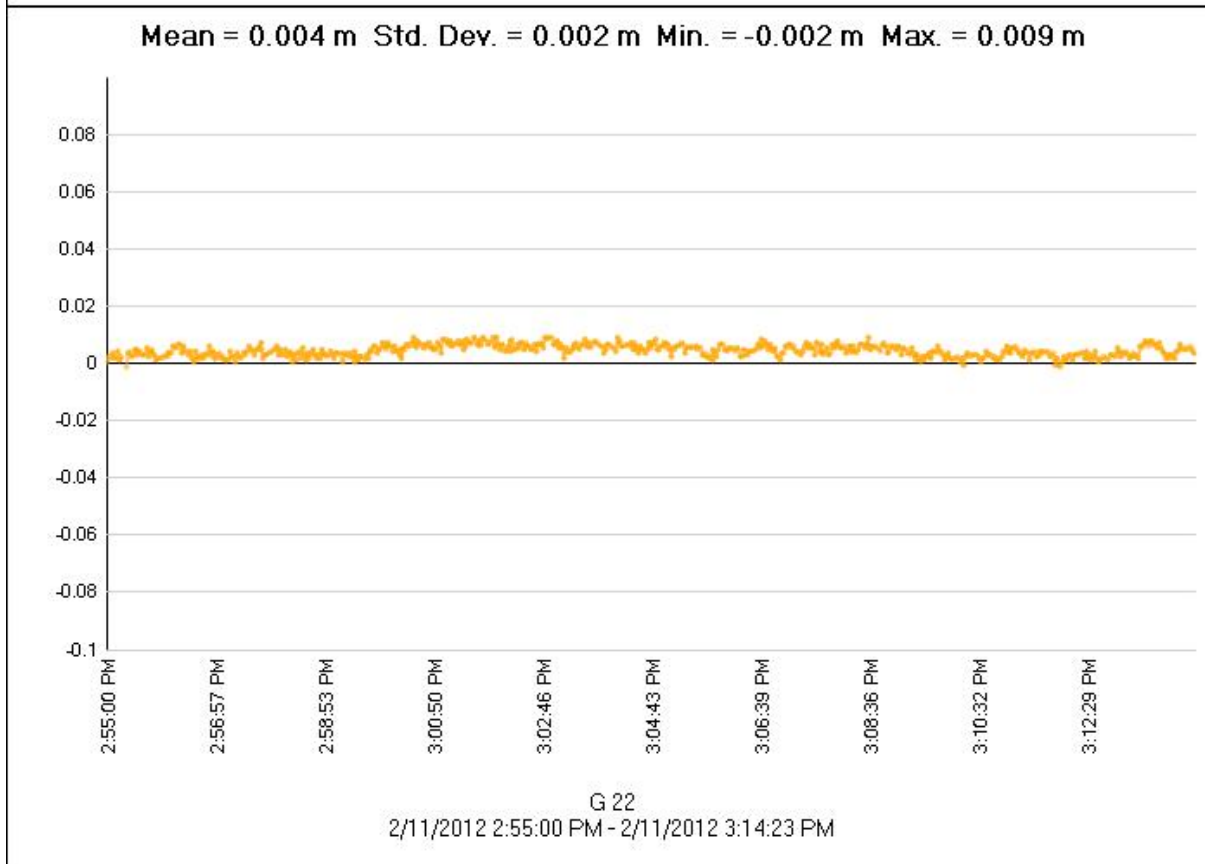
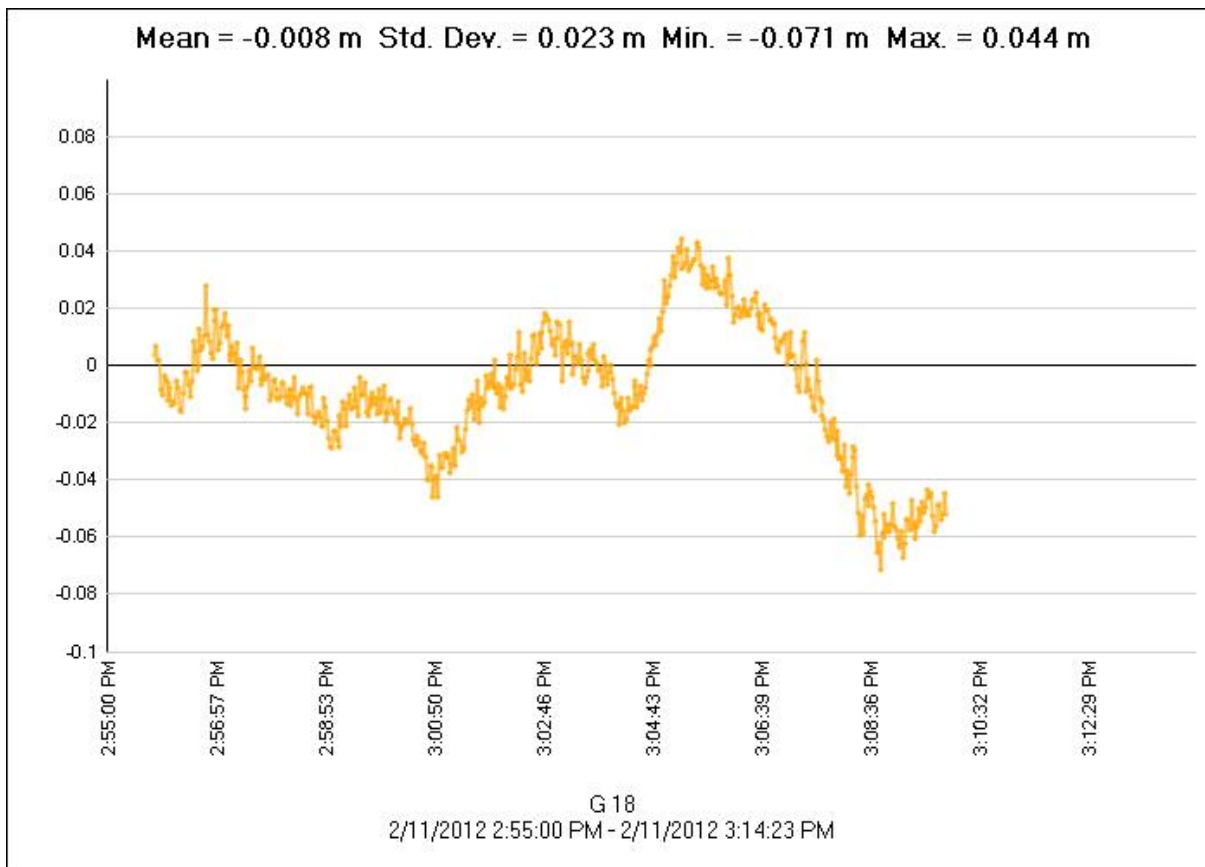


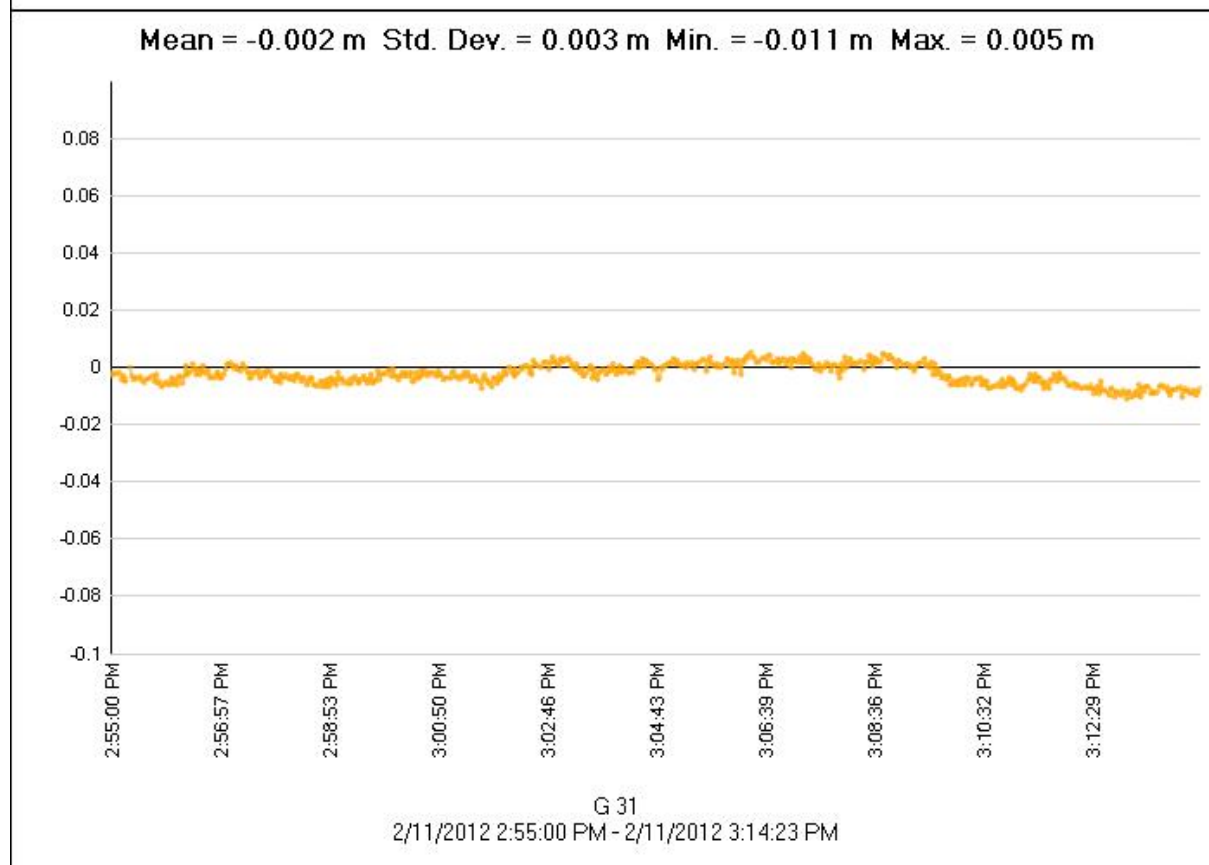
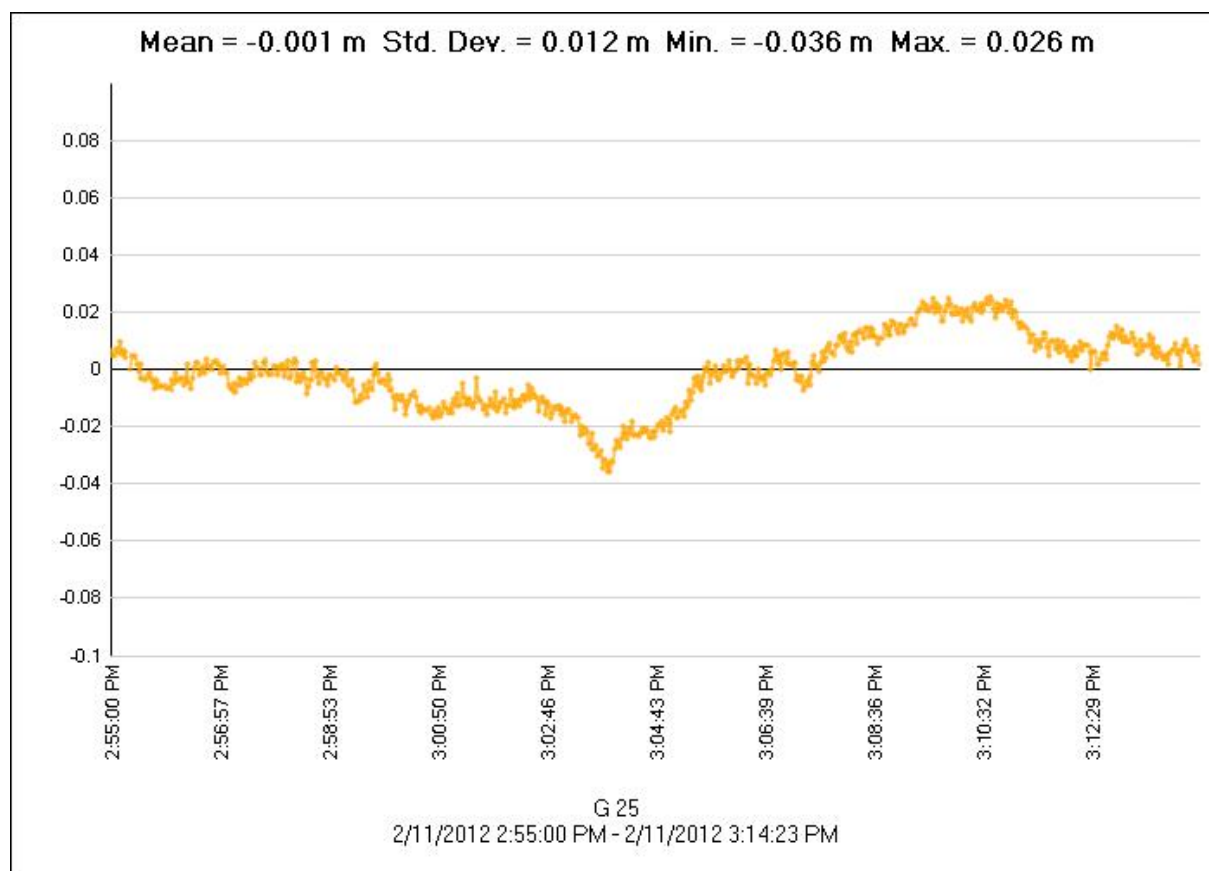
G 12
2/11/2012 2:55:00 PM - 2/11/2012 3:14:23 PM

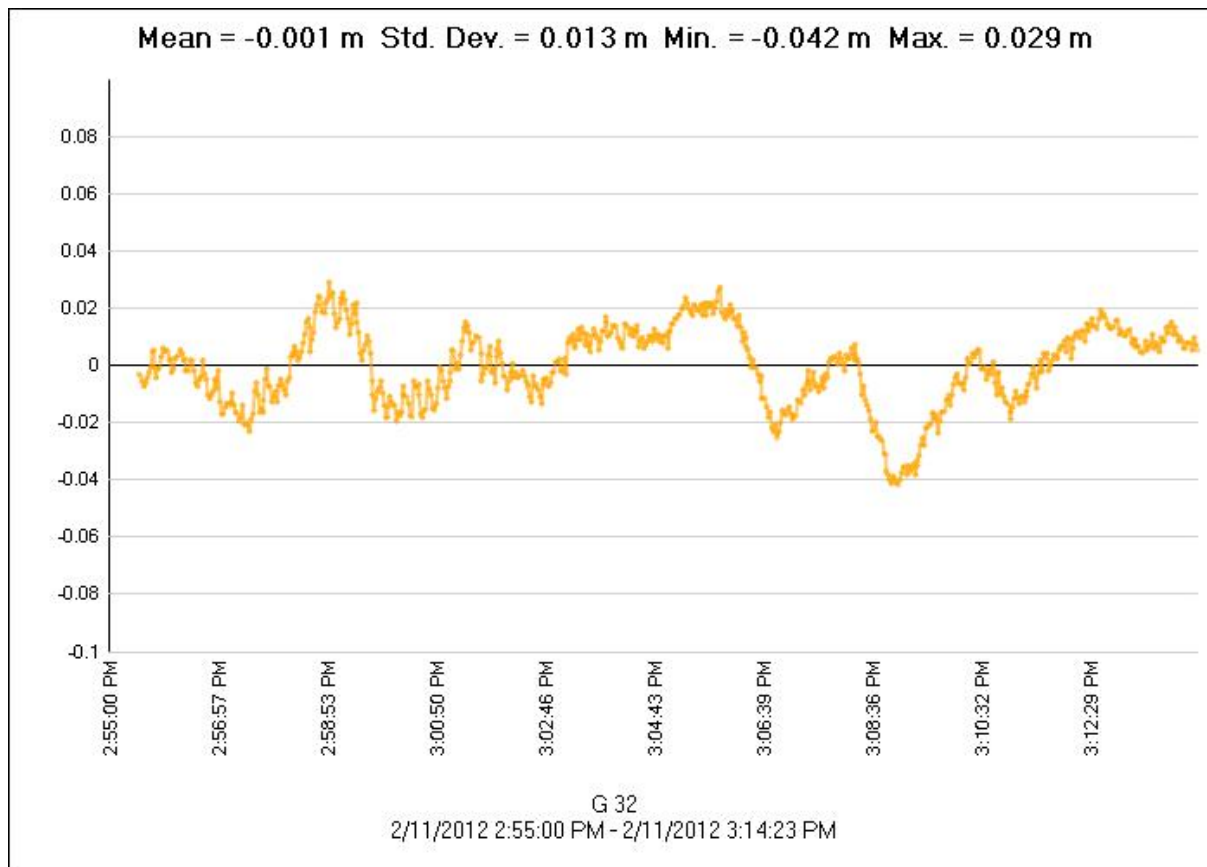
Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.007 m Max. = 0.012 m



G 14
2/11/2012 2:55:00 PM - 2/11/2012 3:14:23 PM









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA14-B2 (1:18:25 PM-1:37:10 PM) (S104)

Baseline observation:	JH0456 --- SVA14-B2 (B104)
Processed:	3/21/2012 12:13:46 PM
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.011 m
Vertical precision:	0.014 m
RMS:	0.002 m
Maximum PDOP:	2.325
Ephemeris used:	Broadcast
Antenna model:	US National Geodetic Survey Calibration
Processing start time:	2/11/2012 1:18:25 PM (Local: UTC-7hr)
Processing stop time:	2/11/2012 1:37:10 PM (Local: UTC-7hr)
Processing duration:	00:18:44
Processing interval:	.5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.763 m	Latitude	N38°28'46.37633"	Latitude	N38°28'46.37633"
Northing	4260713.922 m	Longitude	W100°53'19.04161"	Longitude	W100°53'19.04161"
Elevation	911.169 m	Height	886.253 m	Height	886.253 m

To:	SVA14-B2				
Grid		Local		Global	
Easting	352908.192 m	Latitude	N38°21'59.68877"	Latitude	N38°21'59.68877"
Northing	4247830.812 m	Longitude	W100°41'01.37838"	Longitude	W100°41'01.37838"
Elevation	903.850 m	Height	878.692 m	Height	878.692 m

Vector					
9Ughb[	17645.429 m	NS Fwd Azimuth	124°57'34"	L	16122.291 m
BcfA\jb[	-12883.110 m	Ellipsoid Dist.	21850.205 m	M	-10999.852 m
9`Yj Uhcb	-7.320 m	<Y][\h	-7.560 m	N	-9830.472 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.003 m
Bcfh\]b[	0.004 m	'9~]dgc]X'8]gh	0.004 m	M	0.007 m
'9`Yj Uhcb	0.007 m	' <Y][\h	0.007 m	N	0.005 m

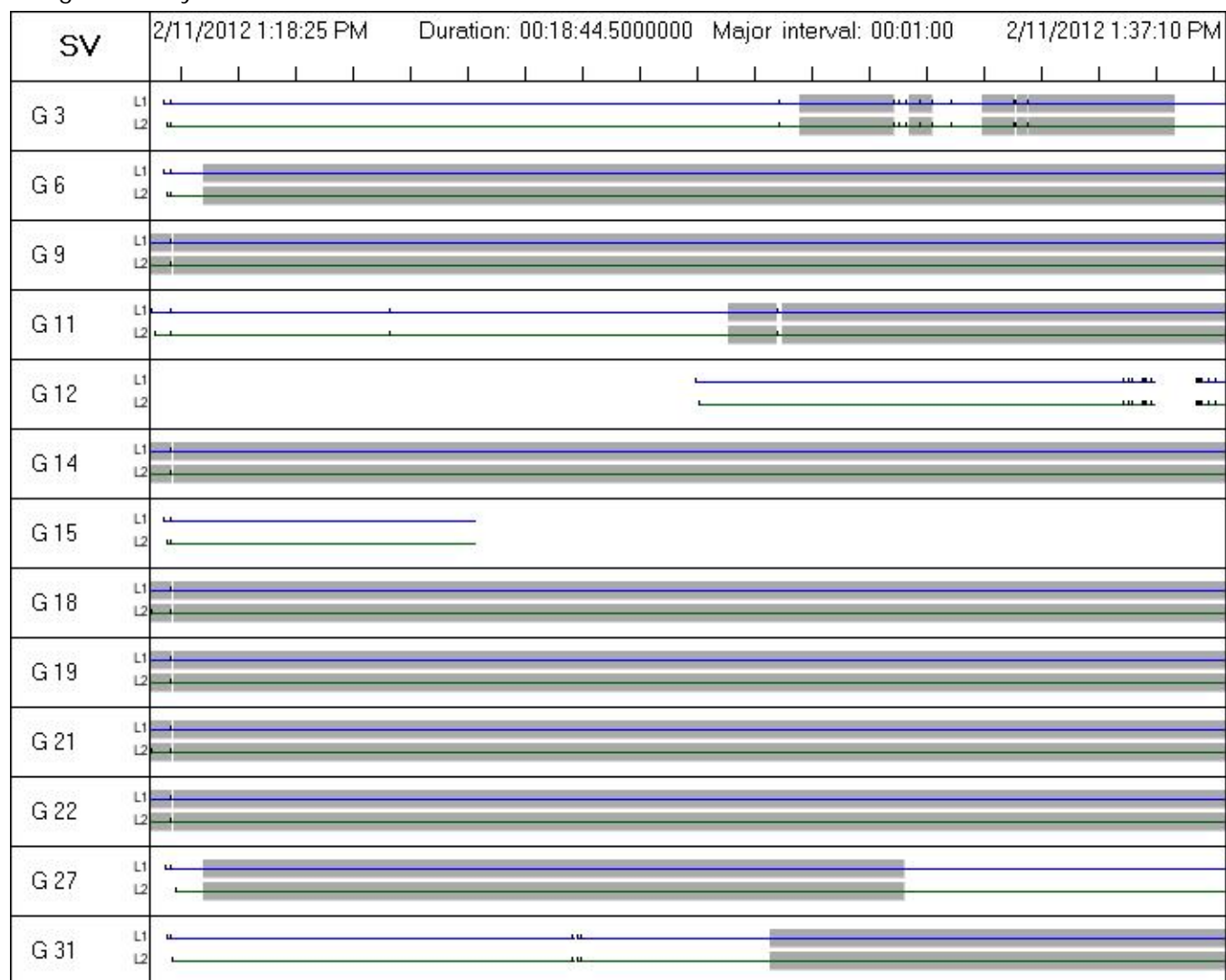
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000091650		
Y	0.0000007236	0.0000463541	
Z	-0.0000016449	-0.0000125714	0.0000237025

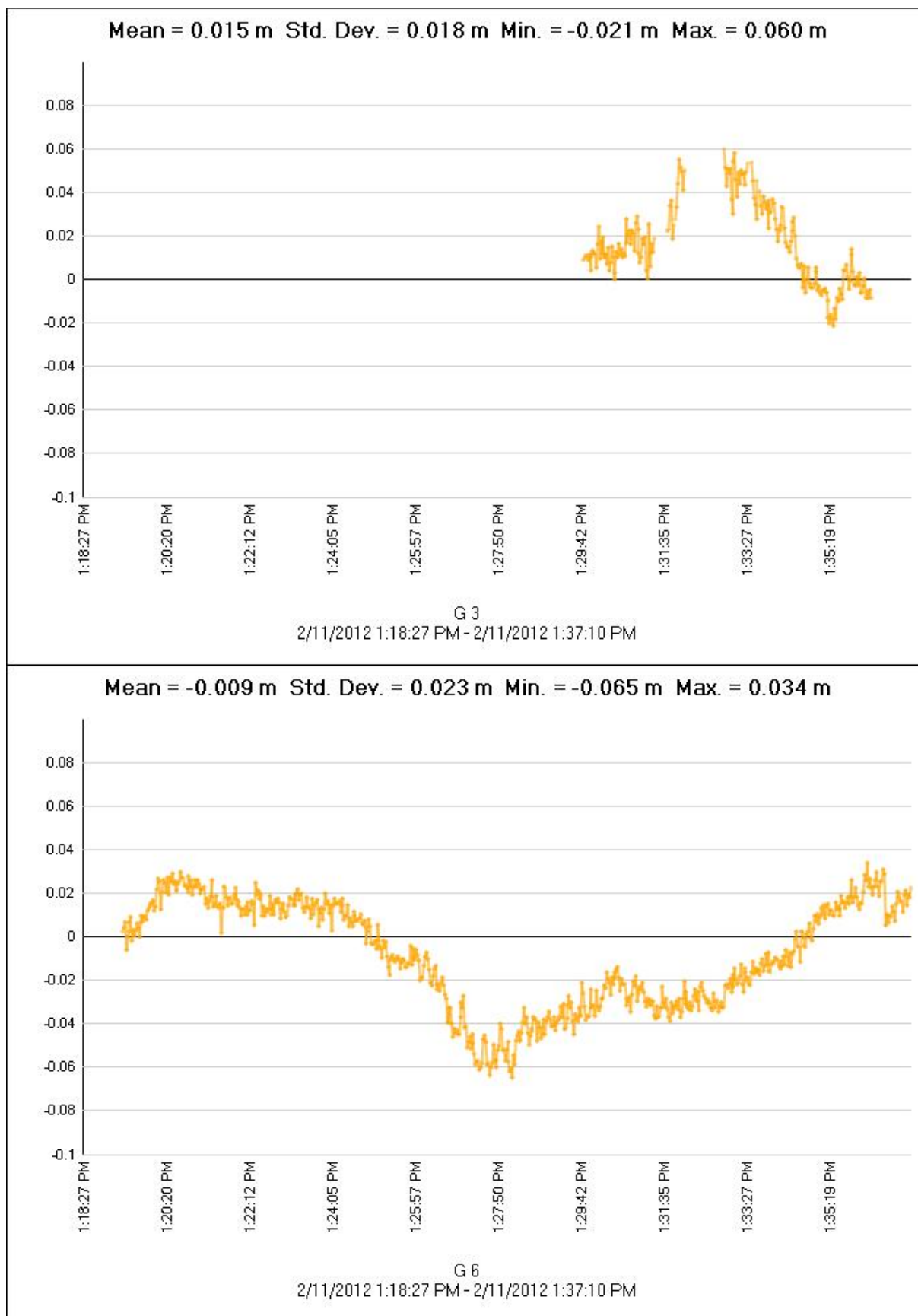
Occupations

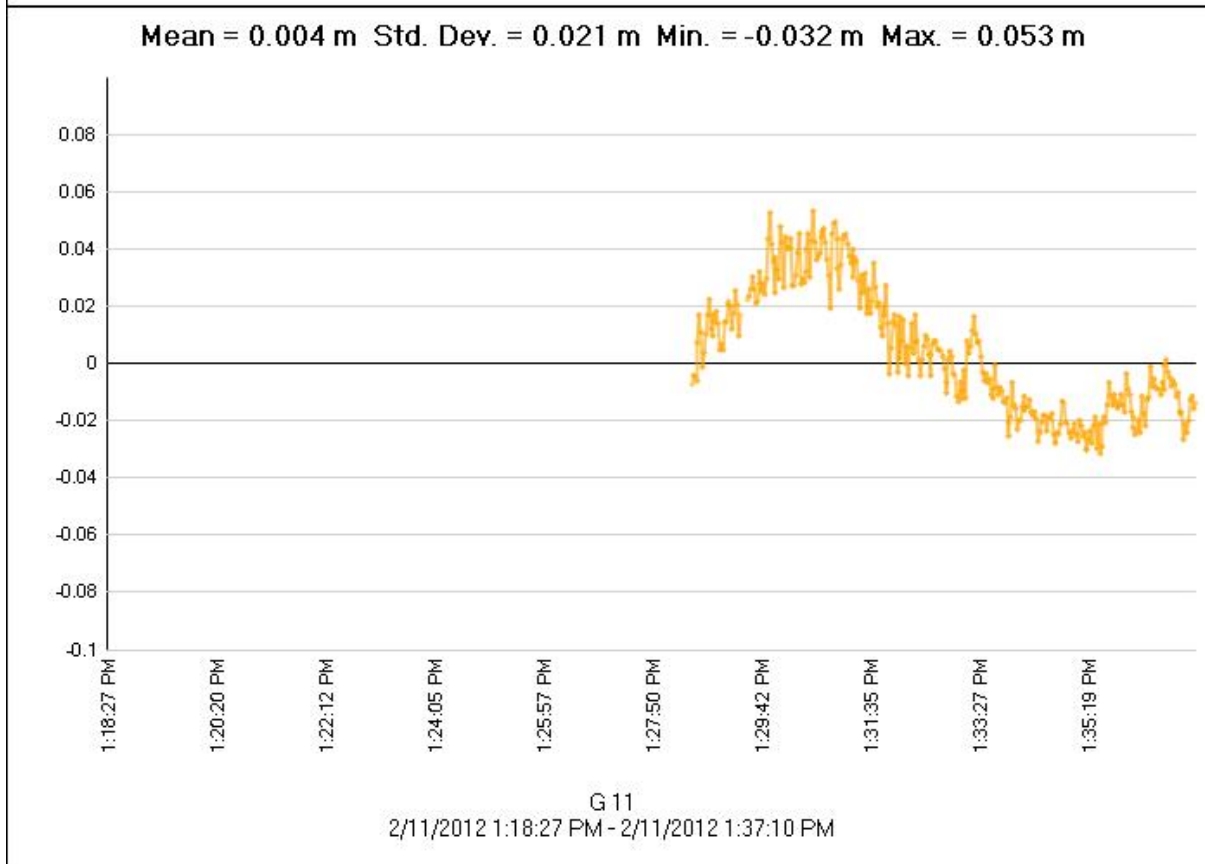
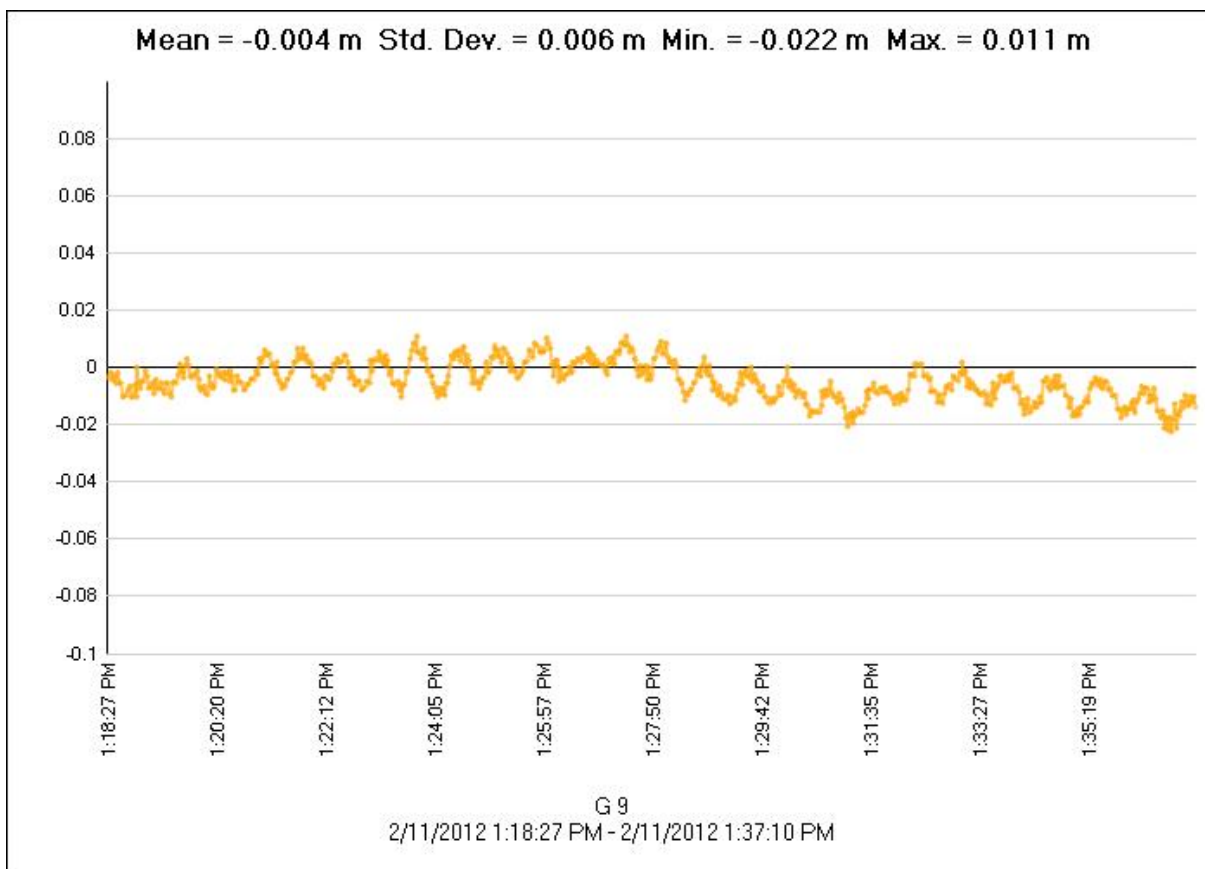
	From	To
Point ID:	JH0456	SVA14-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080427.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

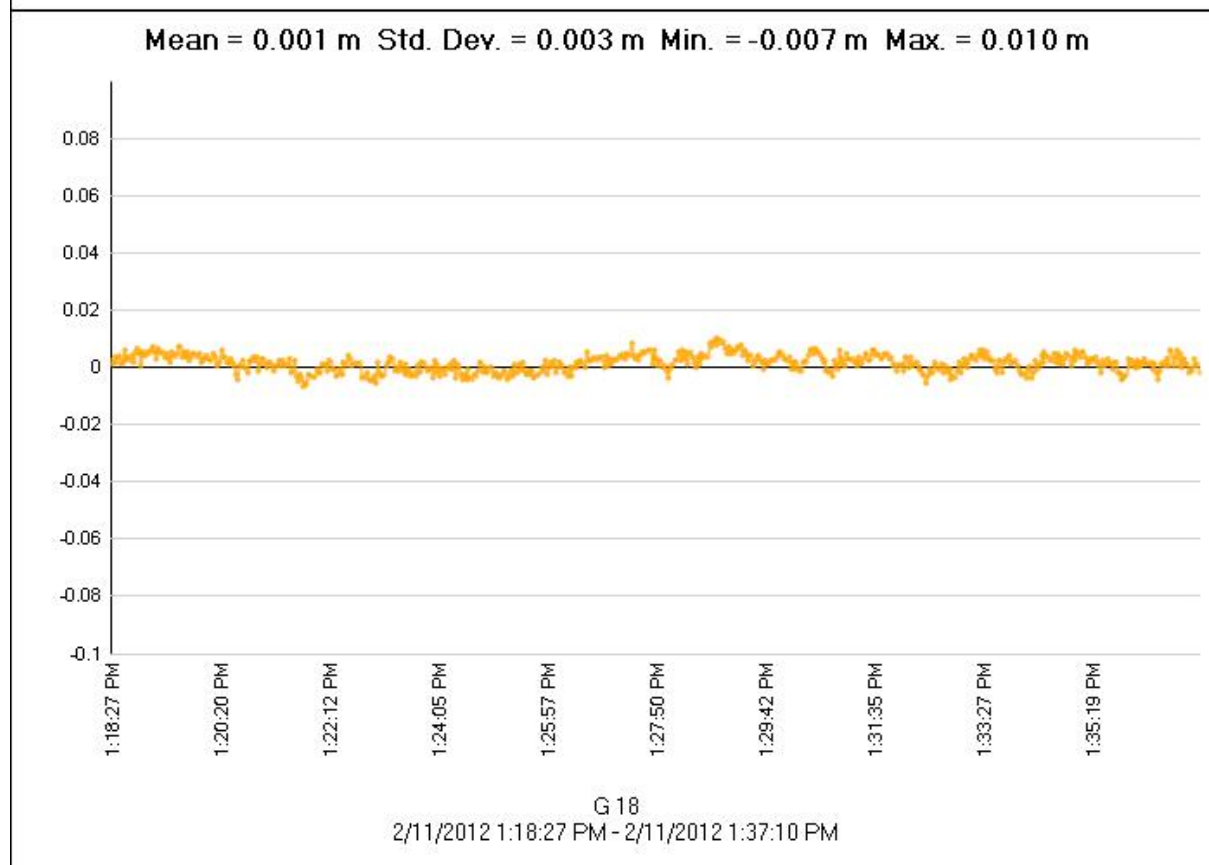
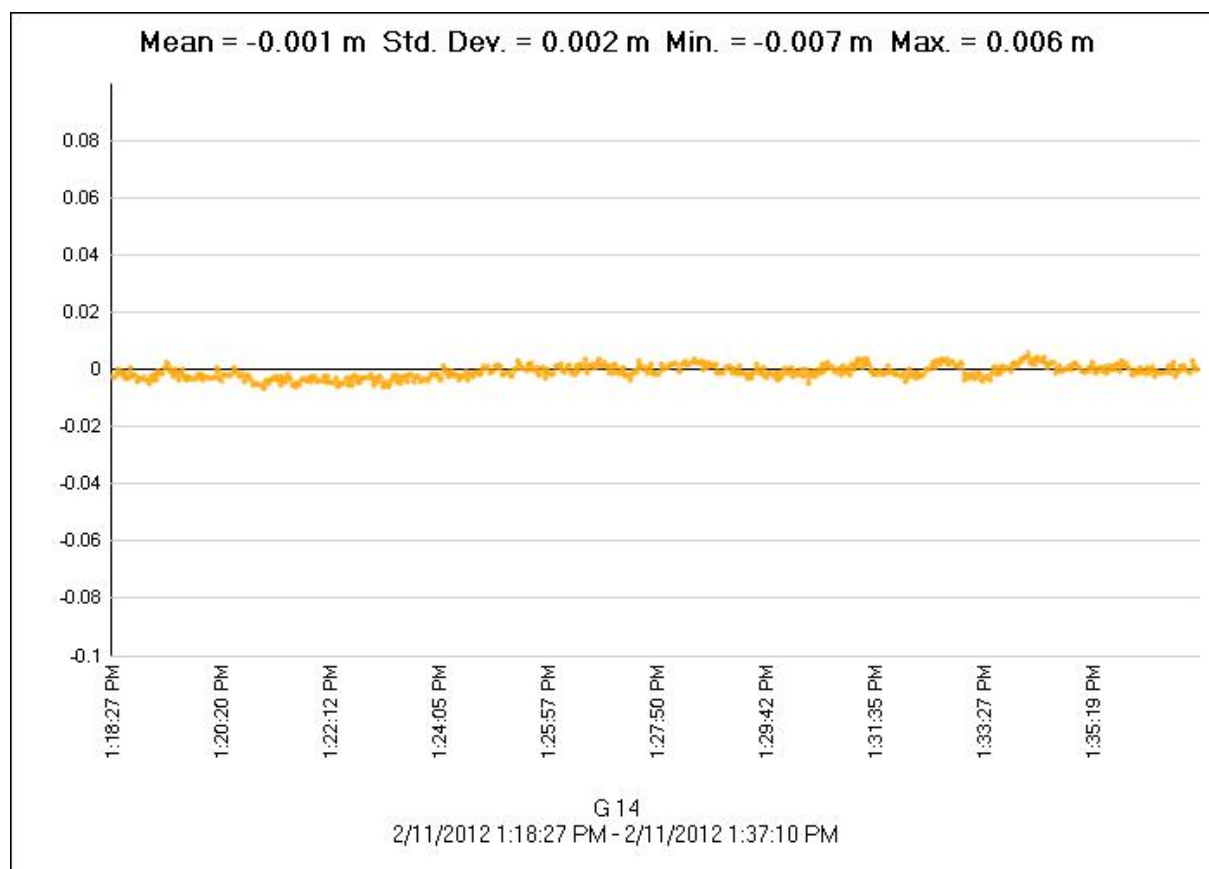
Tracking Summary



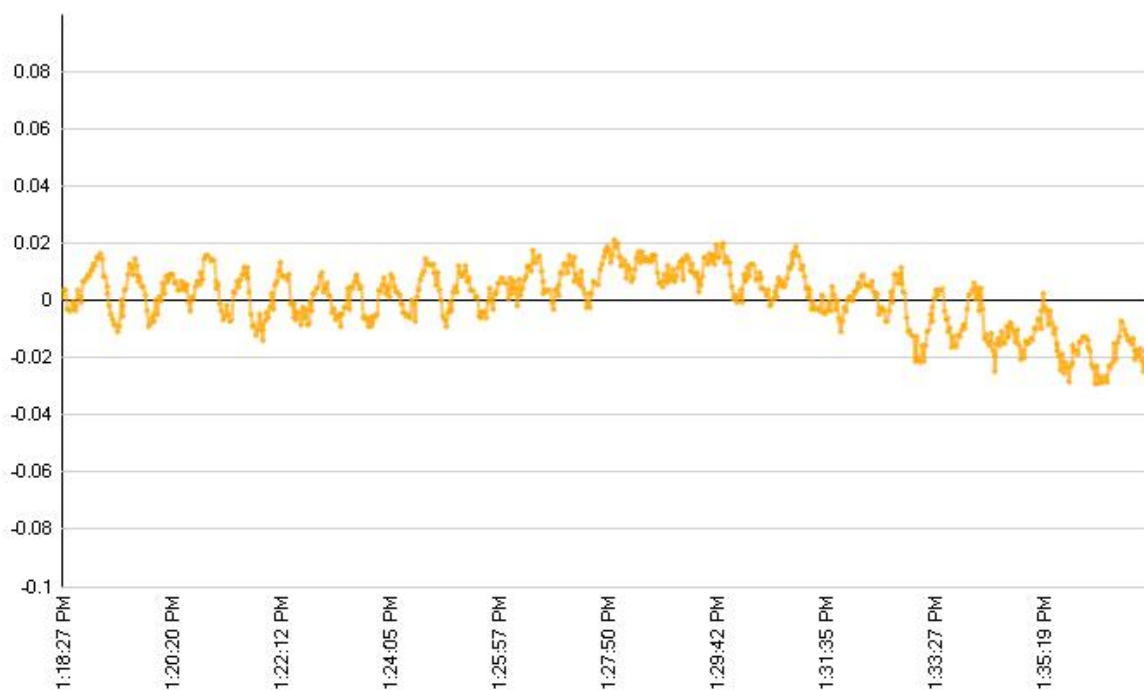
Residuals







Mean = 0.000 m Std. Dev. = 0.010 m Min. = -0.029 m Max. = 0.021 m



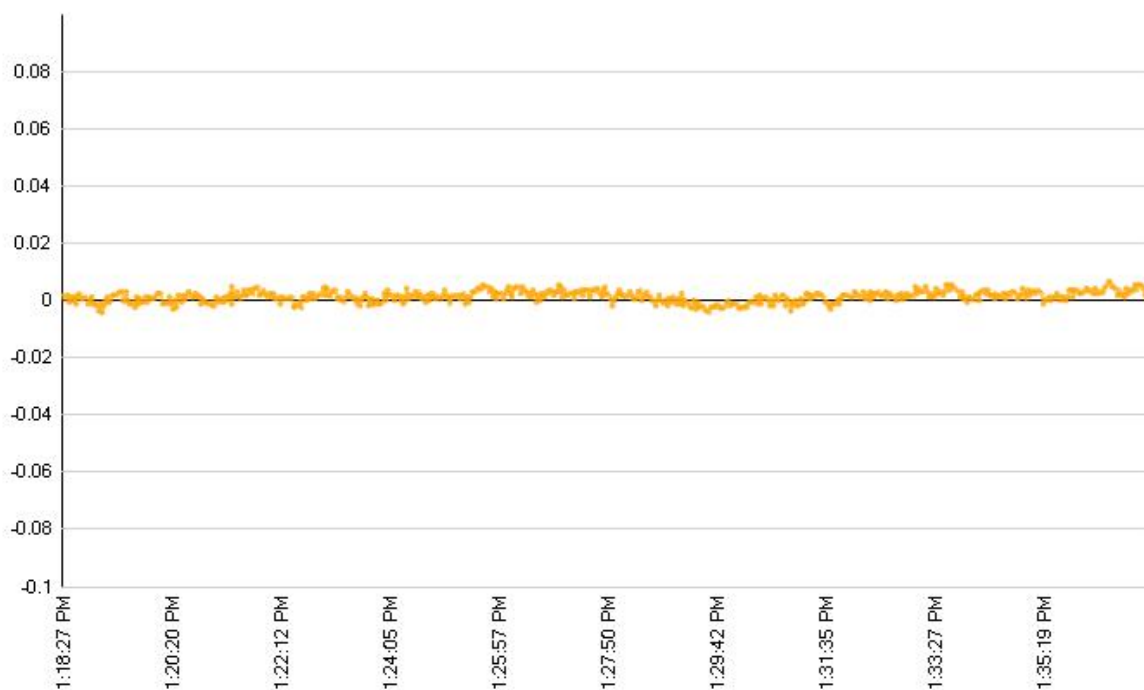
G 19
2/11/2012 1:18:27 PM - 2/11/2012 1:37:10 PM

Mean = 0.001 m Std. Dev. = 0.007 m Min. = -0.020 m Max. = 0.021 m



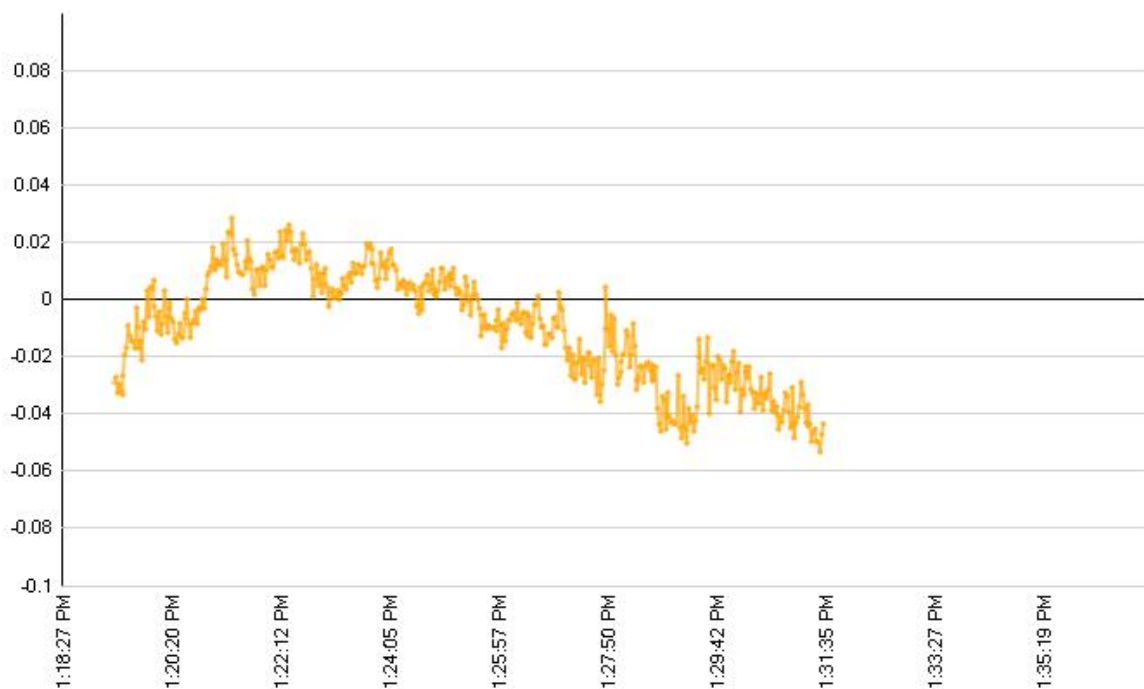
G 21
2/11/2012 1:18:27 PM - 2/11/2012 1:37:10 PM

Mean = 0.001 m Std. Dev. = 0.002 m Min. = -0.005 m Max. = 0.006 m

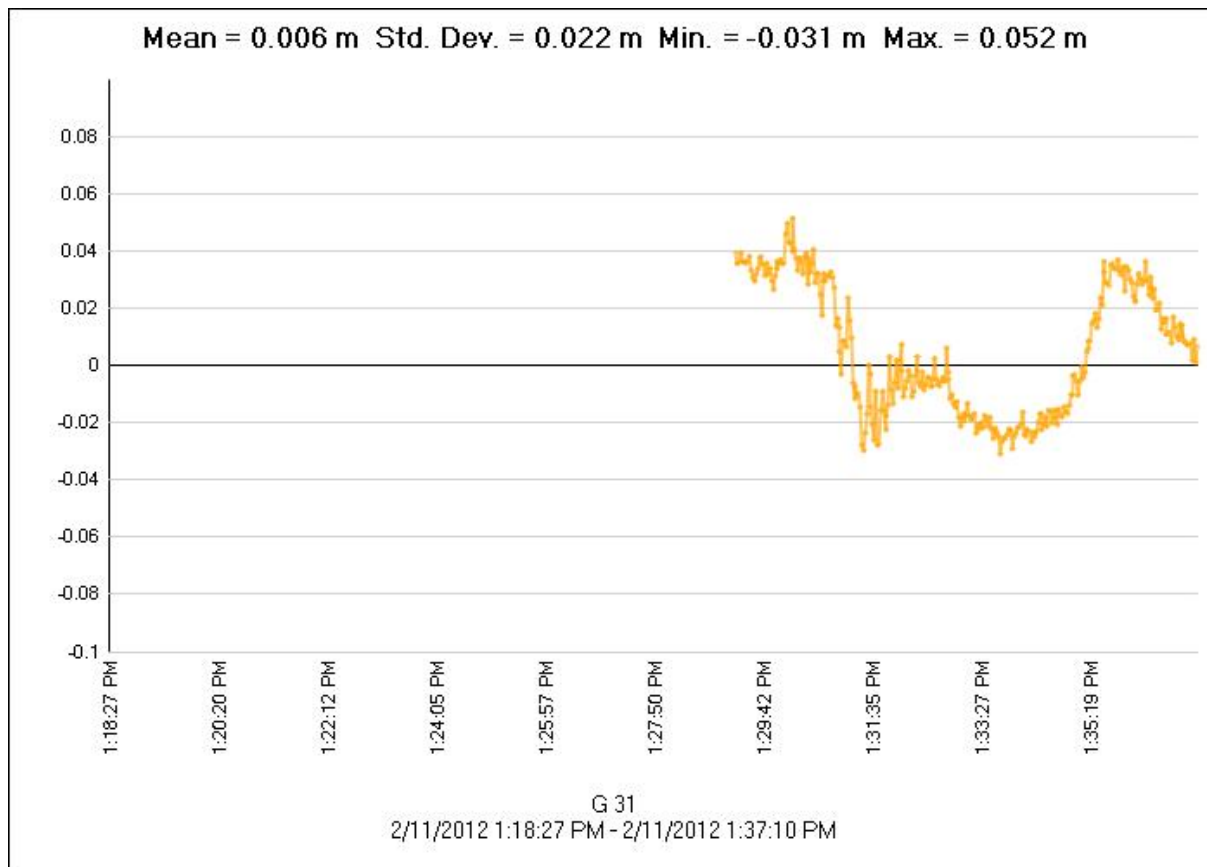


G 22
2/11/2012 1:18:27 PM - 2/11/2012 1:37:10 PM

Mean = -0.009 m Std. Dev. = 0.018 m Min. = -0.053 m Max. = 0.028 m



G 27
2/11/2012 1:18:27 PM - 2/11/2012 1:37:10 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA14-B2 (12:56:05 PM-1:13:57 PM) (S105)

Baseline observation: JH0456 --- FVA14-B2 (B105)

Processed: 3/21/2012 12:13:37 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.016 m

RMS: 0.002 m

Maximum PDOP: 2.095

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/11/2012 12:56:05 PM (Local: UTC-7hr)

Processing stop time: 2/11/2012 1:13:57 PM (Local: UTC-7hr)

Processing duration: 00:17:51

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.763 m	Latitude	N38°28'46.37633"	Latitude	N38°28'46.37633"
Northing	4260713.922 m	Longitude	W100°53'19.04161"	Longitude	W100°53'19.04161"
Elevation	911.169 m	Height	886.253 m	Height	886.253 m

To:	FVA14-B2				
Grid		Local		Global	
Easting	352923.882 m	Latitude	N38°21'57.98306"	Latitude	N38°21'57.98305"
Northing	4247777.930 m	Longitude	W100°41'00.69232"	Longitude	W100°41'00.69232"
Elevation	903.925 m	Height	878.768 m	Height	878.768 m

Vector					
9Ughb[	17661.120 m	NS Fwd Azimuth	125°02'50"	L	16132.595 m
BcfA\jb[	-12935.992 m	Ellipsoid Dist.	21894.091 m	M	-11035.082 m
9Yj Uhcb	-7.244 m	<Y][\h	-7.485 m	N	-9871.668 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.004 m	Point Type	0.007 m
Point ID	0.008 m	Point Description	0.008 m	Point Type	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000083371		
Y	0.0000035178	0.0000488310	
Z	-0.0000043478	-0.0000227172	0.0000293432

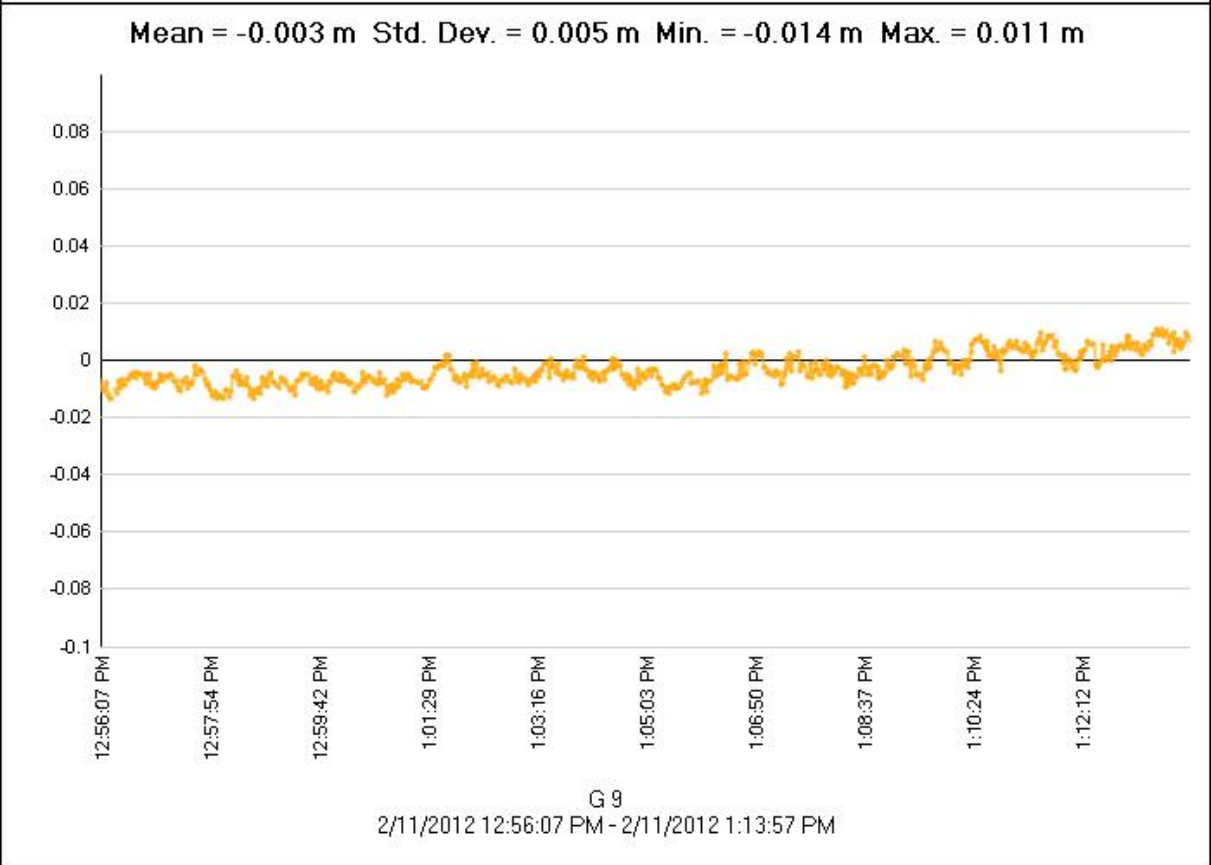
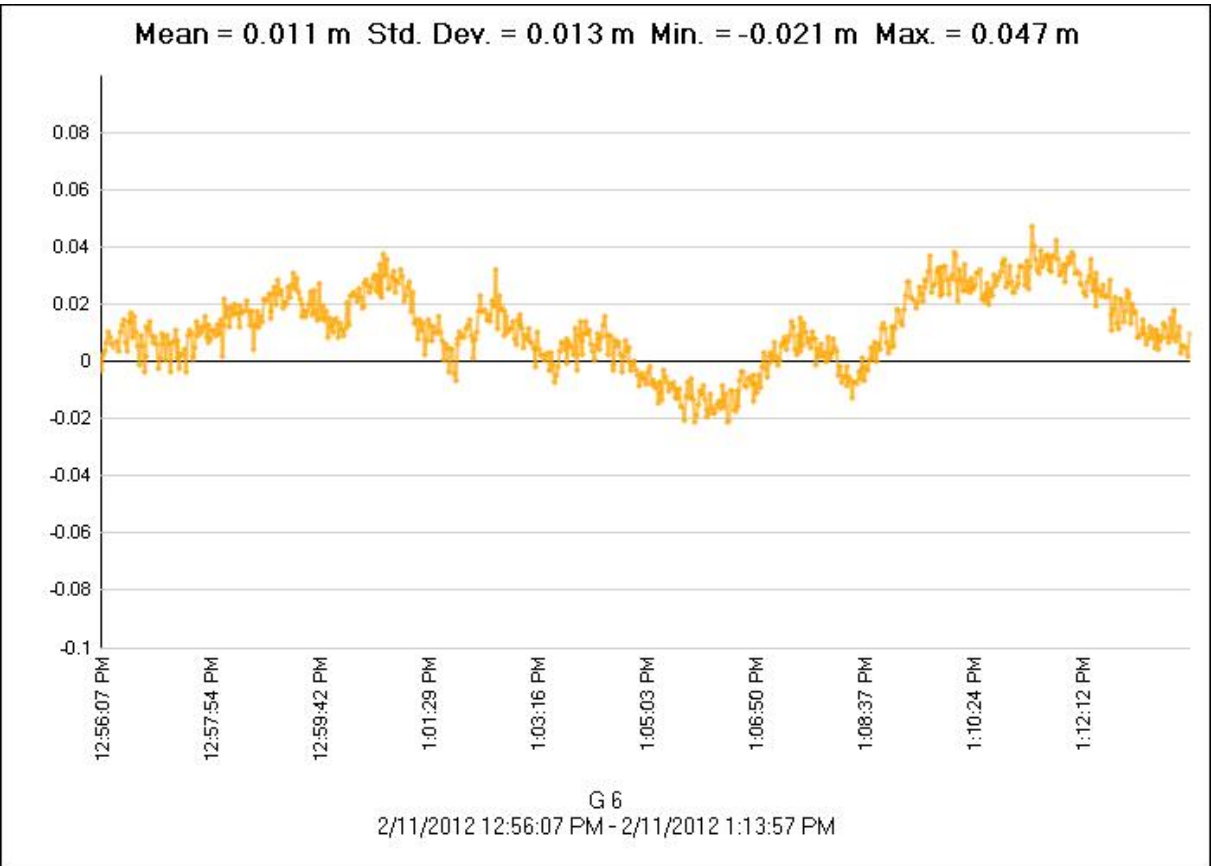
Occupations

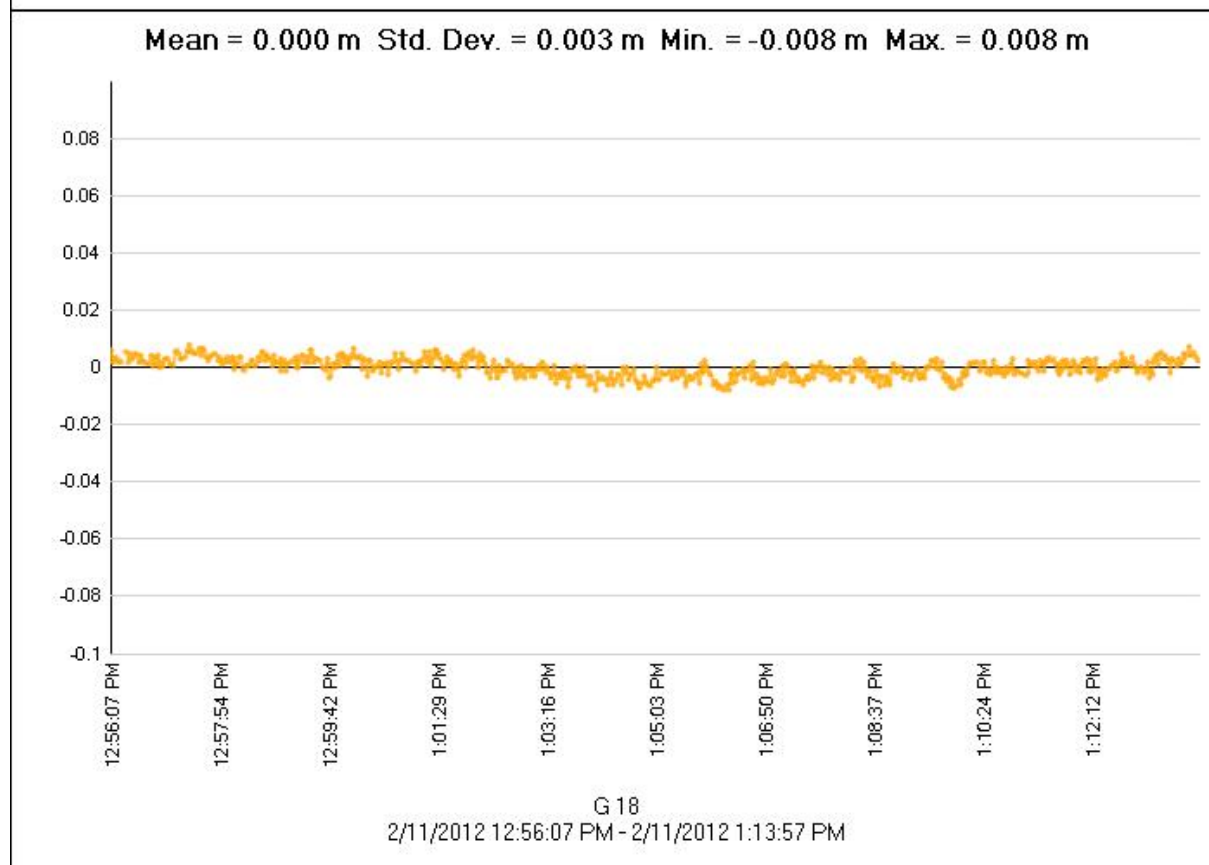
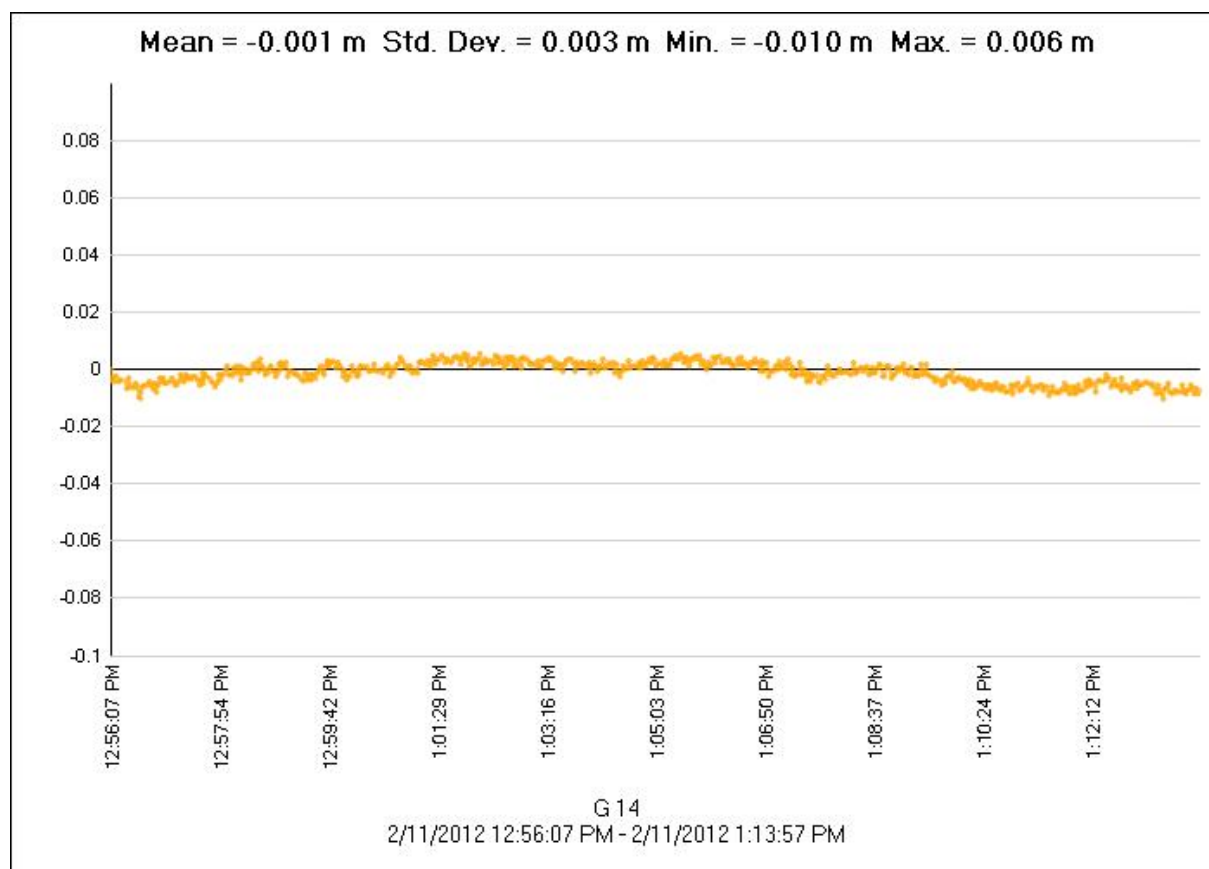
	From	To
Point ID:	JH0456	FVA14-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080426.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

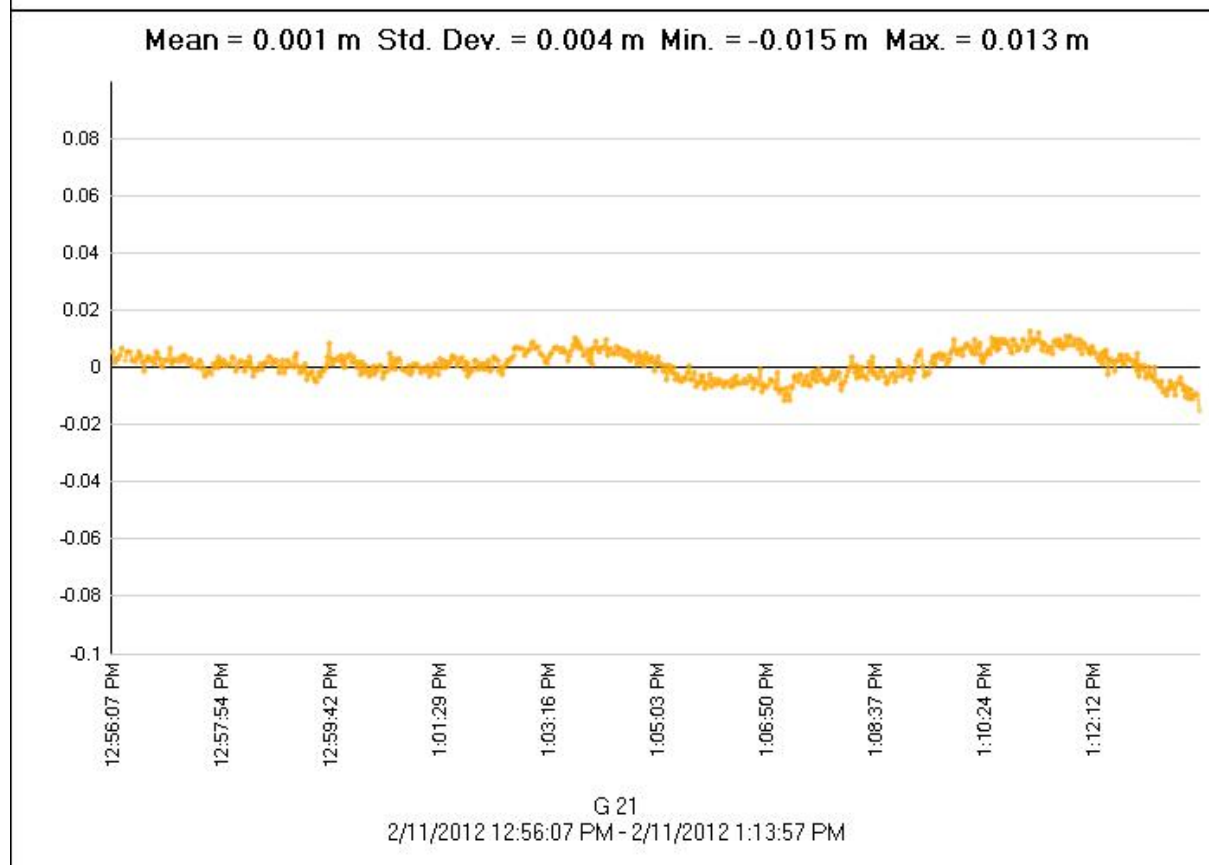
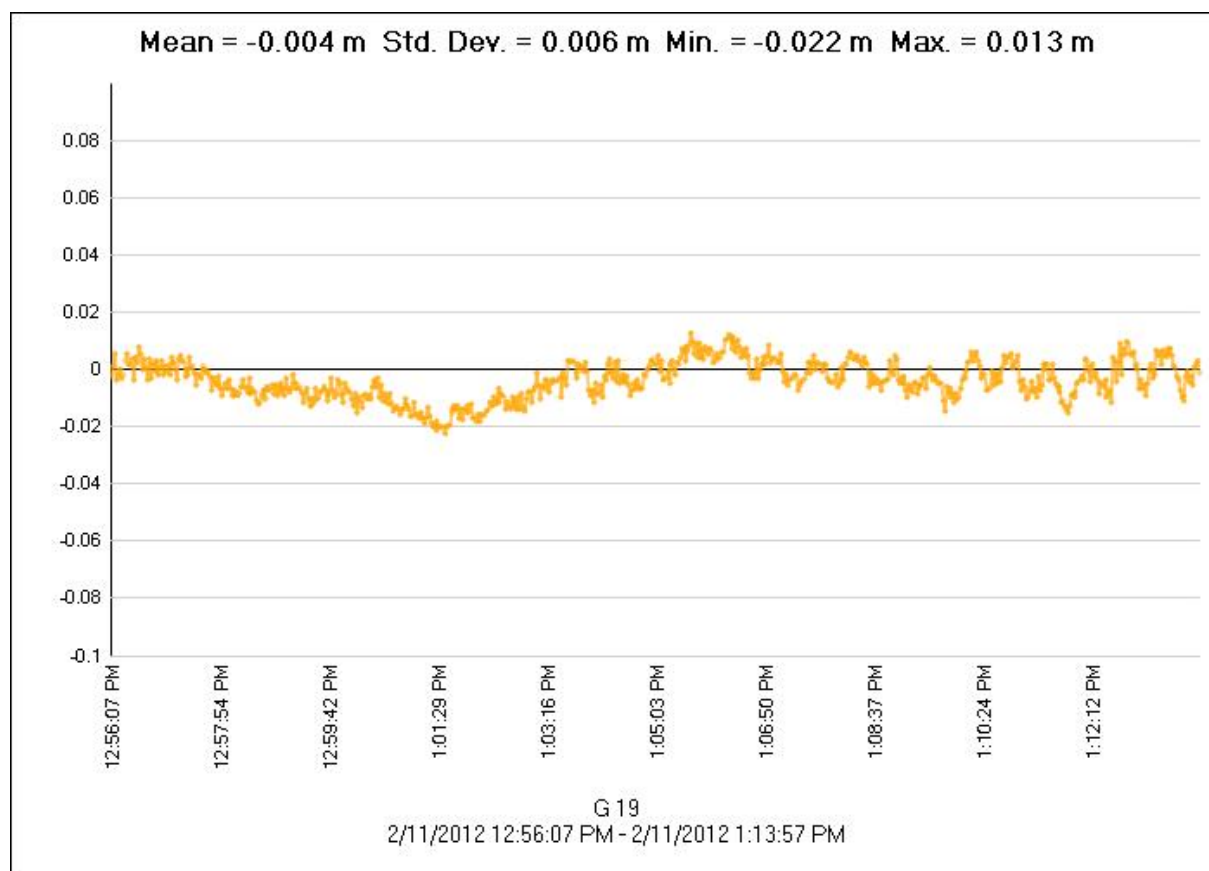
Tracking Summary

SV		2/11/2012 12:56:05 PM	Duration: 00:17:51.5000000	Major interval: 00:01:00	2/11/2012 1:13:57 PM
G 3	L1 L2				
G 6	L1 L2				
G 9	L1 L2				
G 11	L1 L2				
G 14	L1 L2				
G 15	L1 L2				
G 18	L1 L2				
G 19	L1 L2				
G 21	L1 L2				
G 22	L1 L2				
G 27	L1 L2				
G 31	L1 L2				

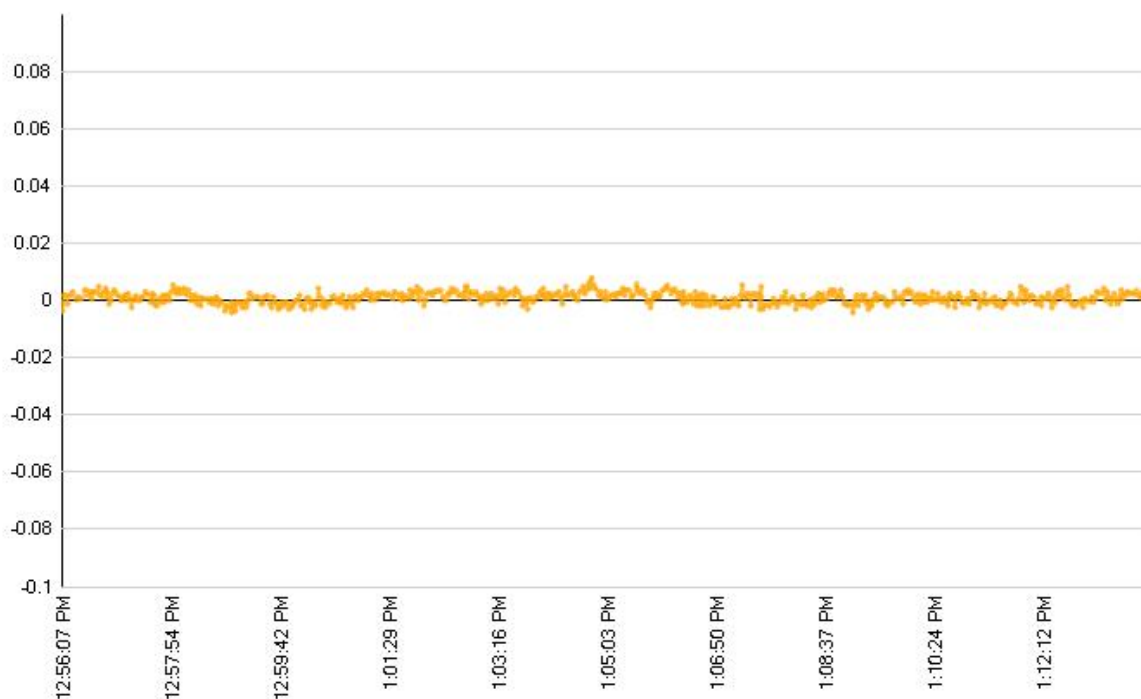
Residuals







Mean = 0.001 m Std. Dev. = 0.002 m Min. = -0.004 m Max. = 0.008 m



G 22

2/11/2012 12:56:07 PM - 2/11/2012 1:13:57 PM

Mean = 0.002 m Std. Dev. = 0.021 m Min. = -0.036 m Max. = 0.057 m



G 27

2/11/2012 12:56:07 PM - 2/11/2012 1:13:57 PM

Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA09-B2 (12:13:29 PM-12:32:23 PM) (S106)

Baseline observation: JH0456 --- SVA09-B2 (B106)

Processed: 3/21/2012 12:13:29 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.009 m

Vertical precision: 0.017 m

RMS: 0.001 m

Maximum PDOP: 2.516

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/11/2012 12:13:29 PM (Local: UTC-7hr)

Processing stop time: 2/11/2012 12:32:23 PM (Local: UTC-7hr)

Processing duration: 00:18:54

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.763 m	Latitude	N38°28'46.37633"	Latitude	N38°28'46.37633"
Northing	4260713.922 m	Longitude	W100°53'19.04161"	Longitude	W100°53'19.04161"
Elevation	911.169 m	Height	886.253 m	Height	886.253 m

To:	SVA09-B2				
Grid		Local		Global	
Easting	343204.579 m	Latitude	N38°24'50.86009"	Latitude	N38°24'50.86009"
Northing	4253292.152 m	Longitude	W100°47'45.45035"	Longitude	W100°47'45.45035"
Elevation	917.163 m	Height	892.100 m	Height	892.100 m

Vector					
9Ughb[	7941.816 m	NS Fwd Azimuth	131°53'12"	L	7095.626 m
BcfA\jb[	-7421.770 m	Ellipsoid Dist.	10870.805 m	M	-5961.841 m
9Yj Uhcb	5.994 m	<Y][\h	5.848 m	N	-5684.710 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.004 m	Point Type	0.007 m
Point ID	0.008 m	Point Description	0.008 m	Point Type	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000092789		
Y	0.0000077621	0.0000452069	
Z	-0.0000080066	-0.0000276866	0.0000397503

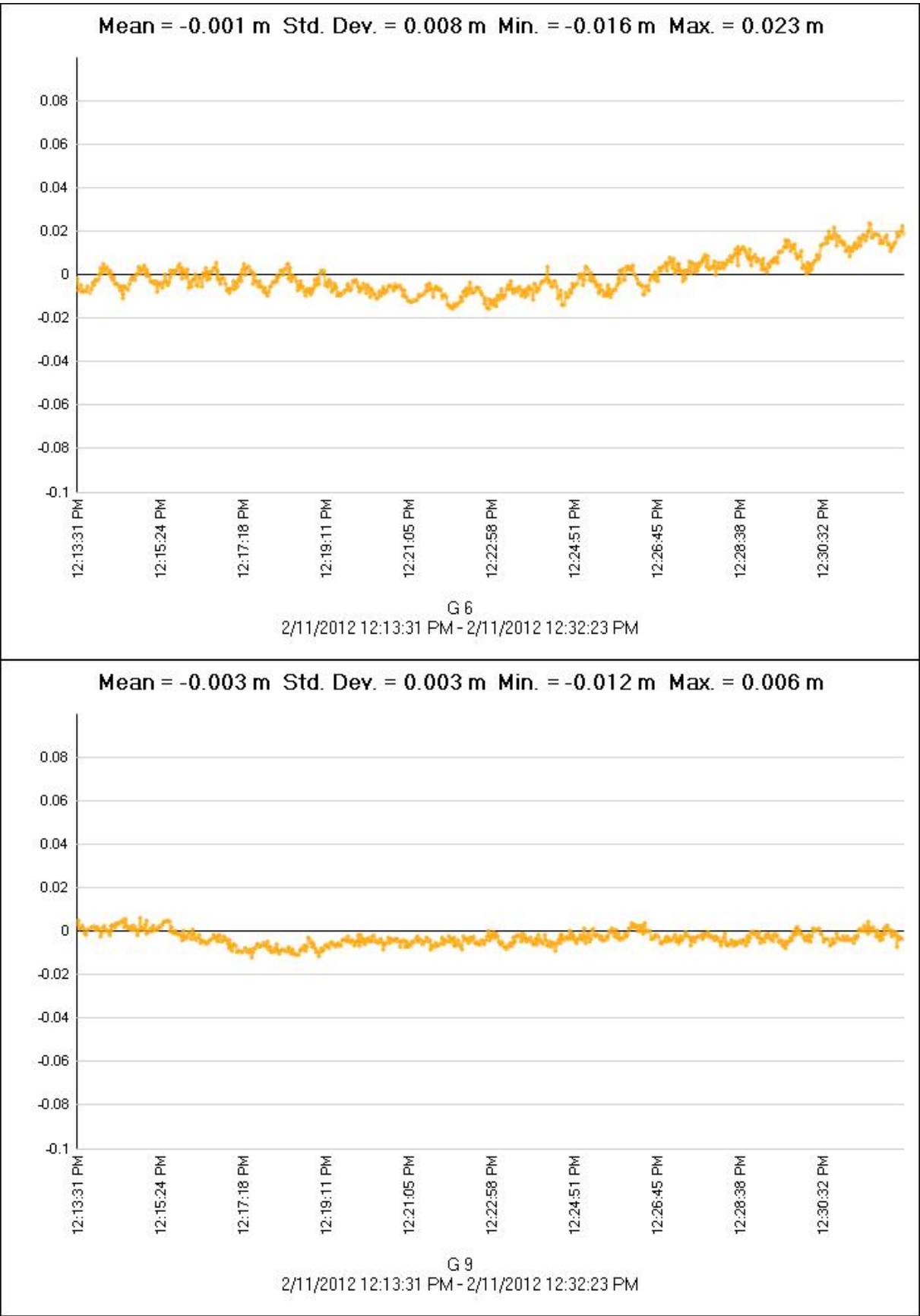
Occupations

	From	To
Point ID:	JH0456	SVA09-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080425.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

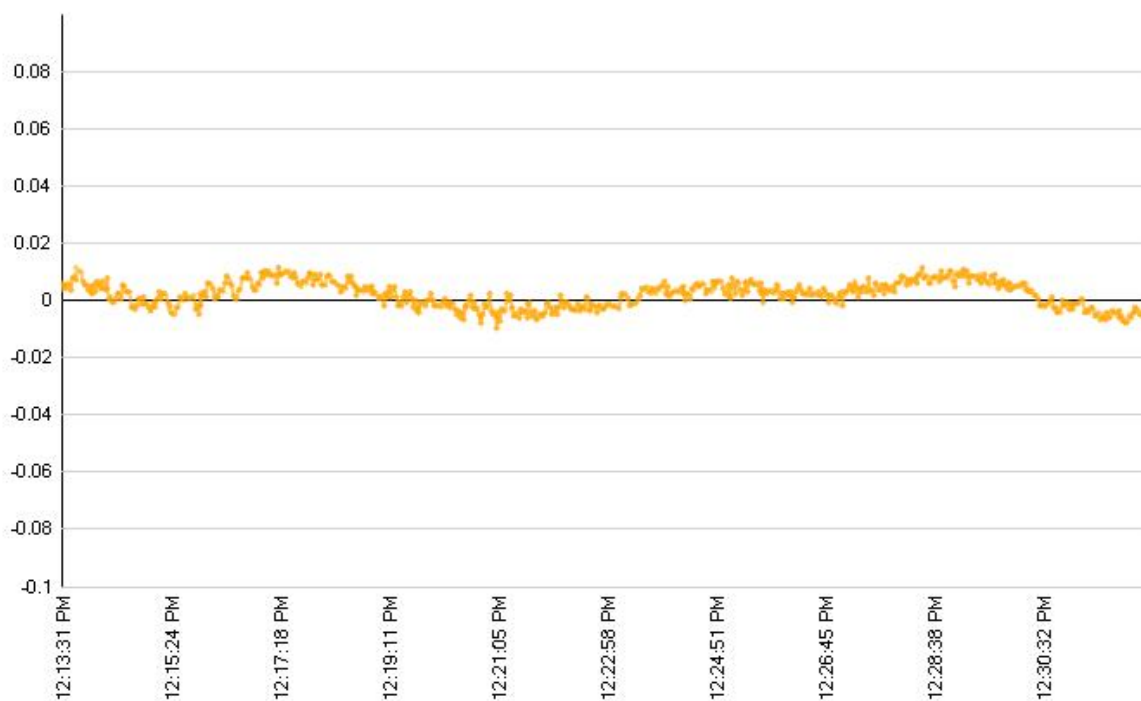
Tracking Summary

SV	2/11/2012 12:13:29 PM	Duration: 00:18:54 Major interval: 00:01:00	2/11/2012 12:32:23 PM
G 3			
G 6			
G 9			
G 14			
G 15			
G 18			
G 19			
G 21			
G 22			
G 27			

Residuals



Mean = 0.002 m Std. Dev. = 0.004 m Min. = -0.010 m Max. = 0.012 m



G 14

2/11/2012 12:13:31 PM - 2/11/2012 12:32:23 PM

Mean = 0.001 m Std. Dev. = 0.010 m Min. = -0.027 m Max. = 0.027 m



G 15

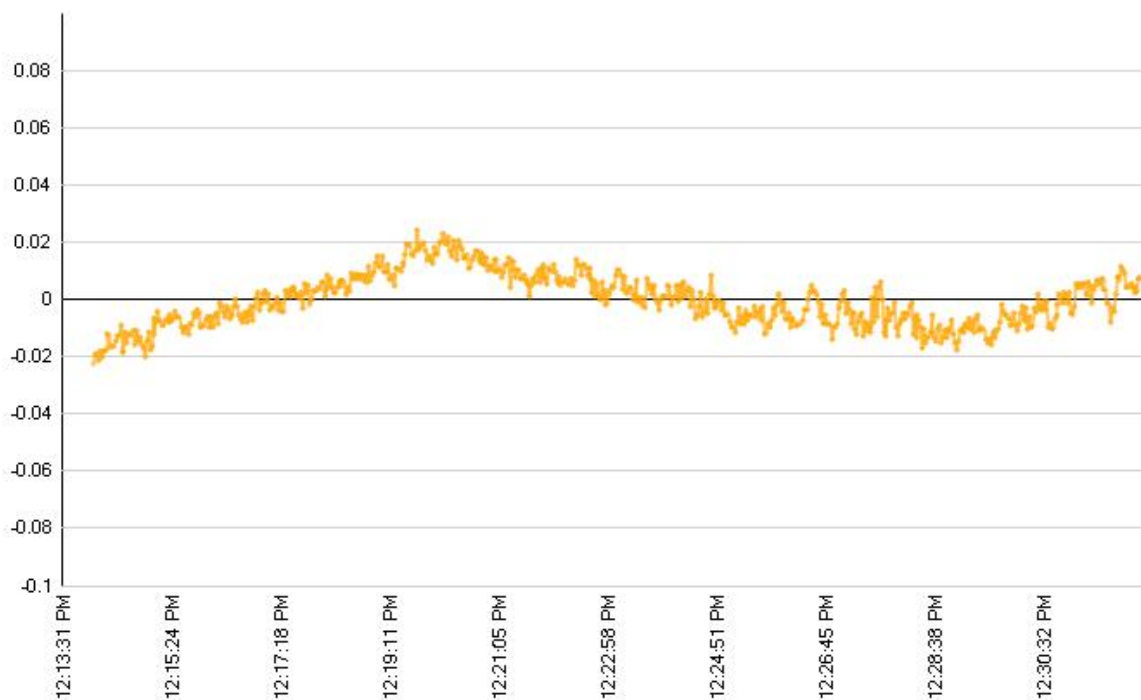
2/11/2012 12:13:31 PM - 2/11/2012 12:32:23 PM

Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.006 m



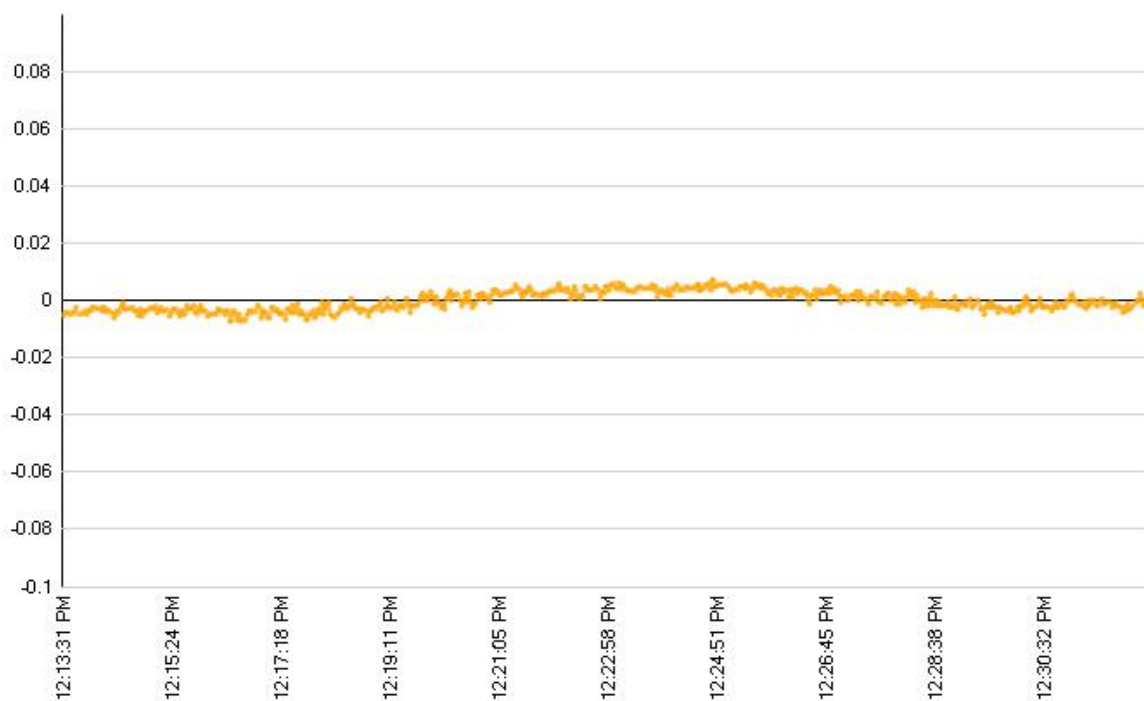
G 18
2/11/2012 12:13:31 PM - 2/11/2012 12:32:23 PM

Mean = 0.000 m Std. Dev. = 0.009 m Min. = -0.022 m Max. = 0.024 m



G 19
2/11/2012 12:13:31 PM - 2/11/2012 12:32:23 PM

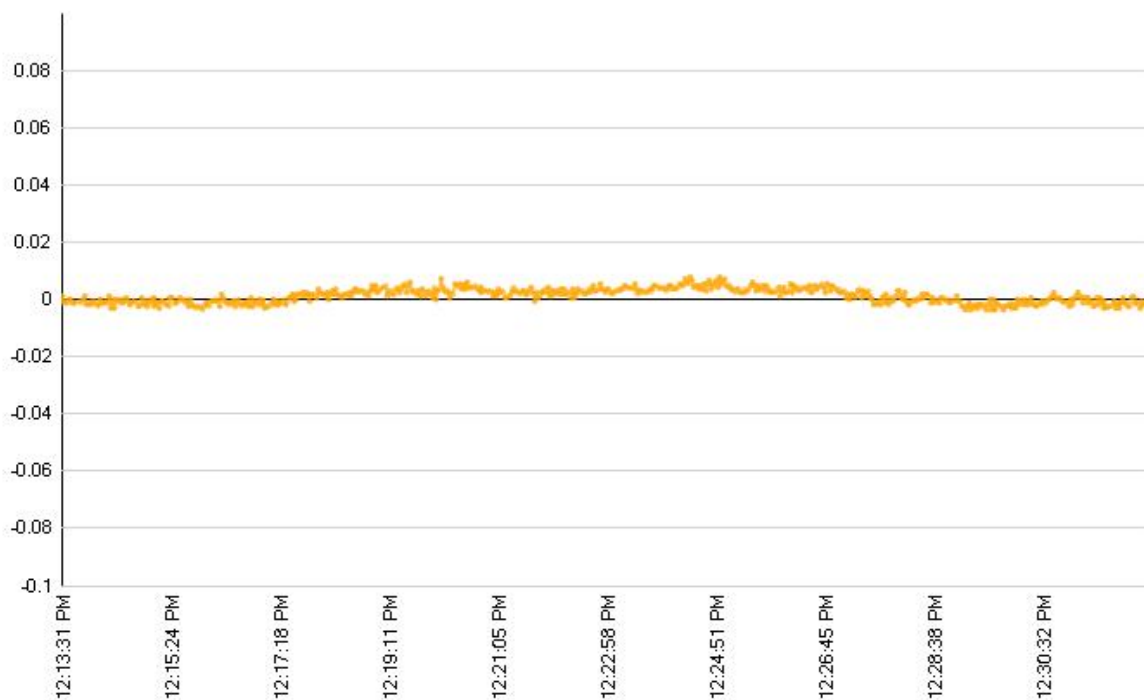
Mean = 0.000 m Std. Dev. = 0.003 m Min. = -0.008 m Max. = 0.007 m



G 21

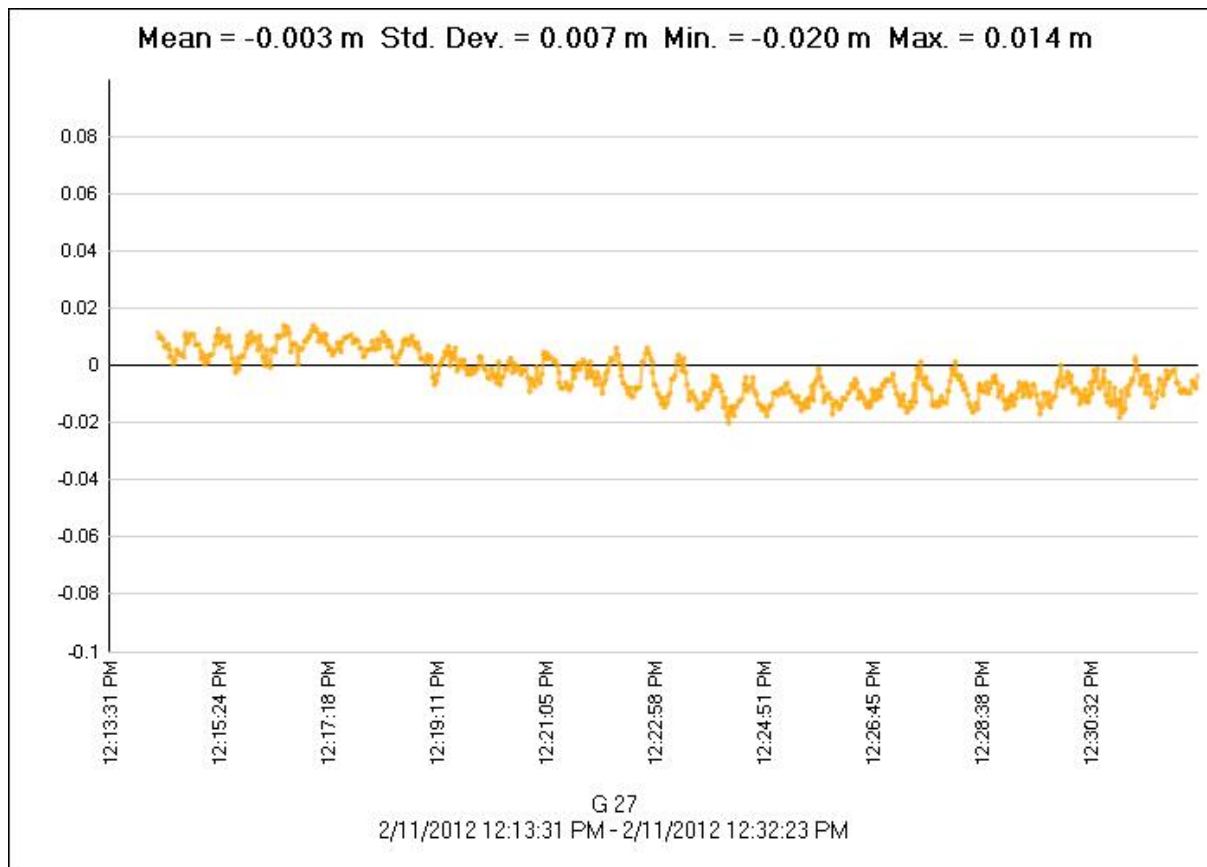
2/11/2012 12:13:31 PM - 2/11/2012 12:32:23 PM

Mean = 0.001 m Std. Dev. = 0.002 m Min. = -0.004 m Max. = 0.008 m



G 22



2/11/2012 12:13:31 PM - 2/11/2012 12:32:23 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA15-B2 (11:32:13 AM-11:51:41 AM) (S107)

Baseline observation: JH0456 --- SVA15-B2 (B107)

Processed: 3/21/2012 12:13:25 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.012 m

Vertical precision: 0.013 m

RMS: 0.002 m

Maximum PDOP: 2.660

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/11/2012 11:32:13 AM (Local: UTC-7hr)

Processing stop time: 2/11/2012 11:51:41 AM (Local: UTC-7hr)

Processing duration: 00:19:28

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.763 m	Latitude	N38°28'46.37633"	Latitude	N38°28'46.37633"
Northing	4260713.922 m	Longitude	W100°53'19.04161"	Longitude	W100°53'19.04161"
Elevation	911.169 m	Height	886.253 m	Height	886.253 m

To:	SVA15-B2				
Grid		Local		Global	
Easting	351269.606 m	Latitude	N38°26'21.51180"	Latitude	N38°26'21.51179"
Northing	4255934.398 m	Longitude	W100°42'15.04315"	Longitude	W100°42'15.04315"
Elevation	899.111 m	Height	873.956 m	Height	873.956 m

Vector					
9Ughb[	16006.843 m	NS Fwd Azimuth	105°27'01"	L	15297.112 m
Bcfh\jb[	-4779.524 m	Ellipsoid Dist.	16706.799 m	M	-5735.946 m
9Yj Uhcb	-12.058 m	<Y][\h	-12.296 m	N	-3505.905 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.003 m
Bcfh\]b[	0.005 m	'9~]dgc]X'8]gh	0.003 m	M	0.006 m
'9`Yj Uhcb	0.007 m	' <Y][\h	0.007 m	N	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000082796		
Y	0.0000060757	0.0000386238	
Z	-0.0000018432	-0.0000102609	0.0000305516

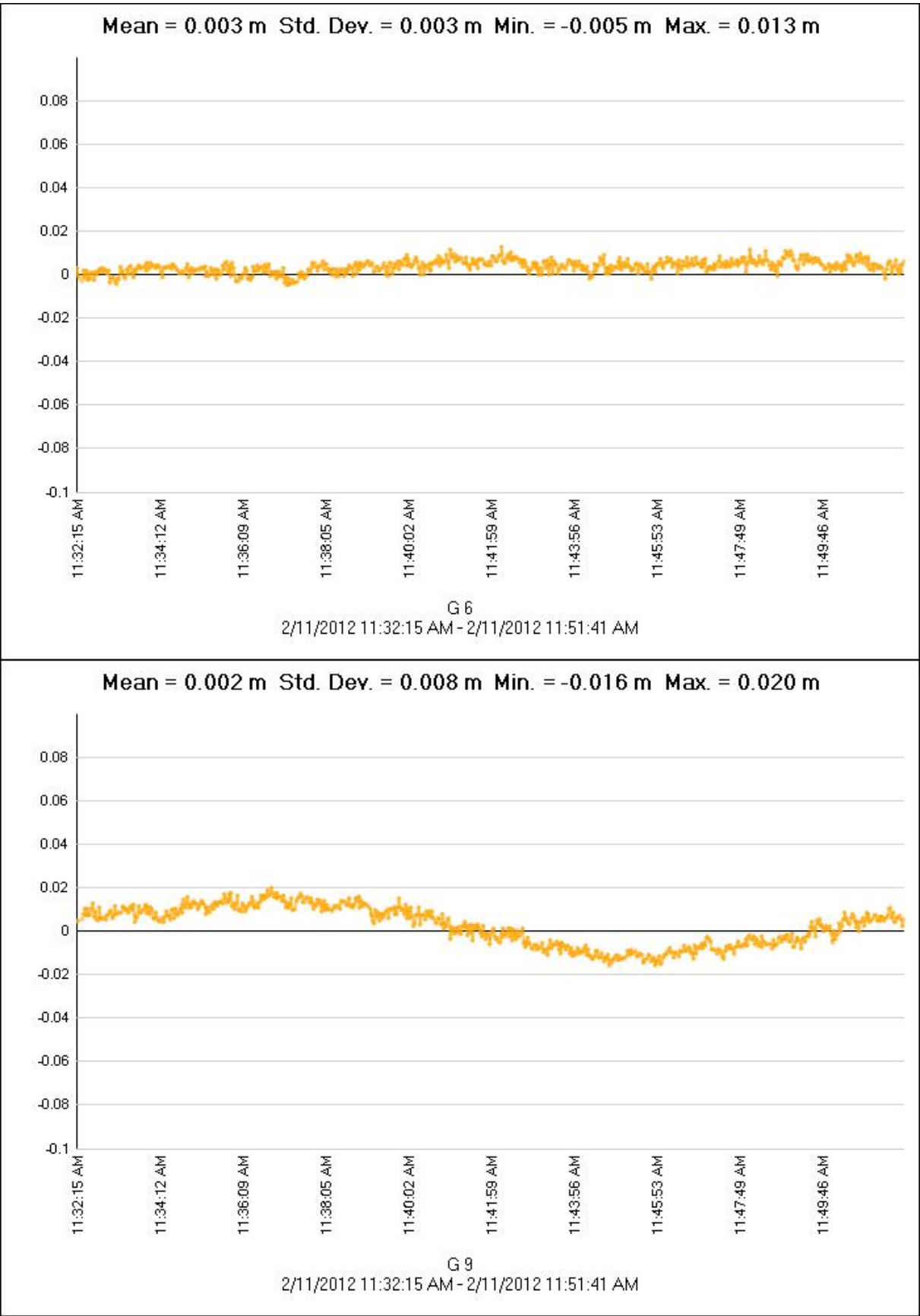
Occupations

	From	To
Point ID:	JH0456	SVA15-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00080424.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

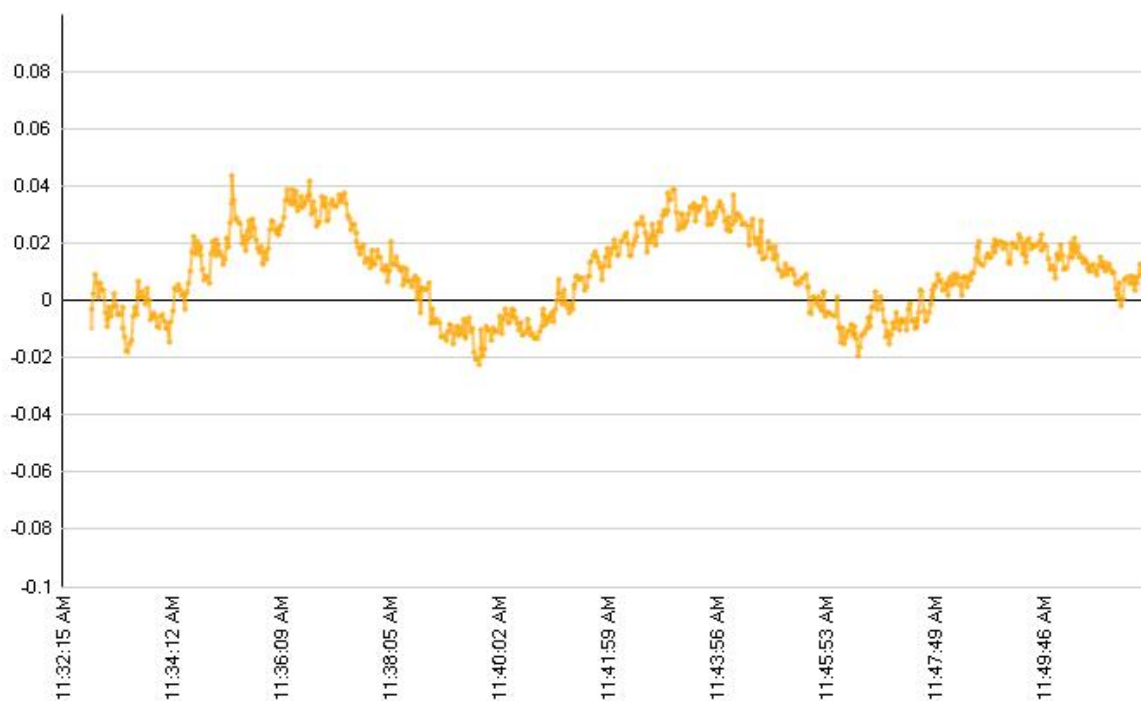
Tracking Summary

SV	2/11/2012 11:32:13 AM	Duration: 00:19:28 Major interval: 00:01:00	2/11/2012 11:51:41 AM
G 3			
G 6			
G 9			
G 14			
G 15			
G 18			
G 19			
G 21			
G 22			
G 27			
G 29			

Residuals



Mean = 0.009 m Std. Dev. = 0.014 m Min. = -0.022 m Max. = 0.043 m



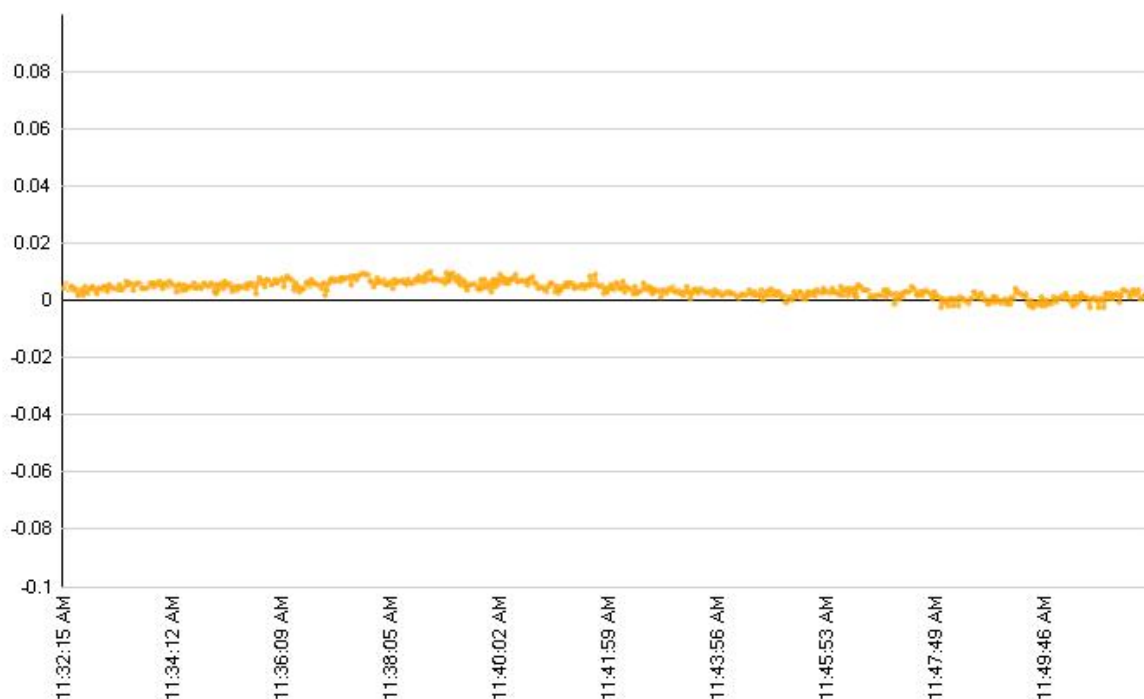
G 14
2/11/2012 11:32:15 AM - 2/11/2012 11:51:41 AM

Mean = -0.007 m Std. Dev. = 0.003 m Min. = -0.016 m Max. = 0.001 m



G 15
2/11/2012 11:32:15 AM - 2/11/2012 11:51:41 AM

Mean = 0.004 m Std. Dev. = 0.002 m Min. = -0.003 m Max. = 0.010 m



G 18

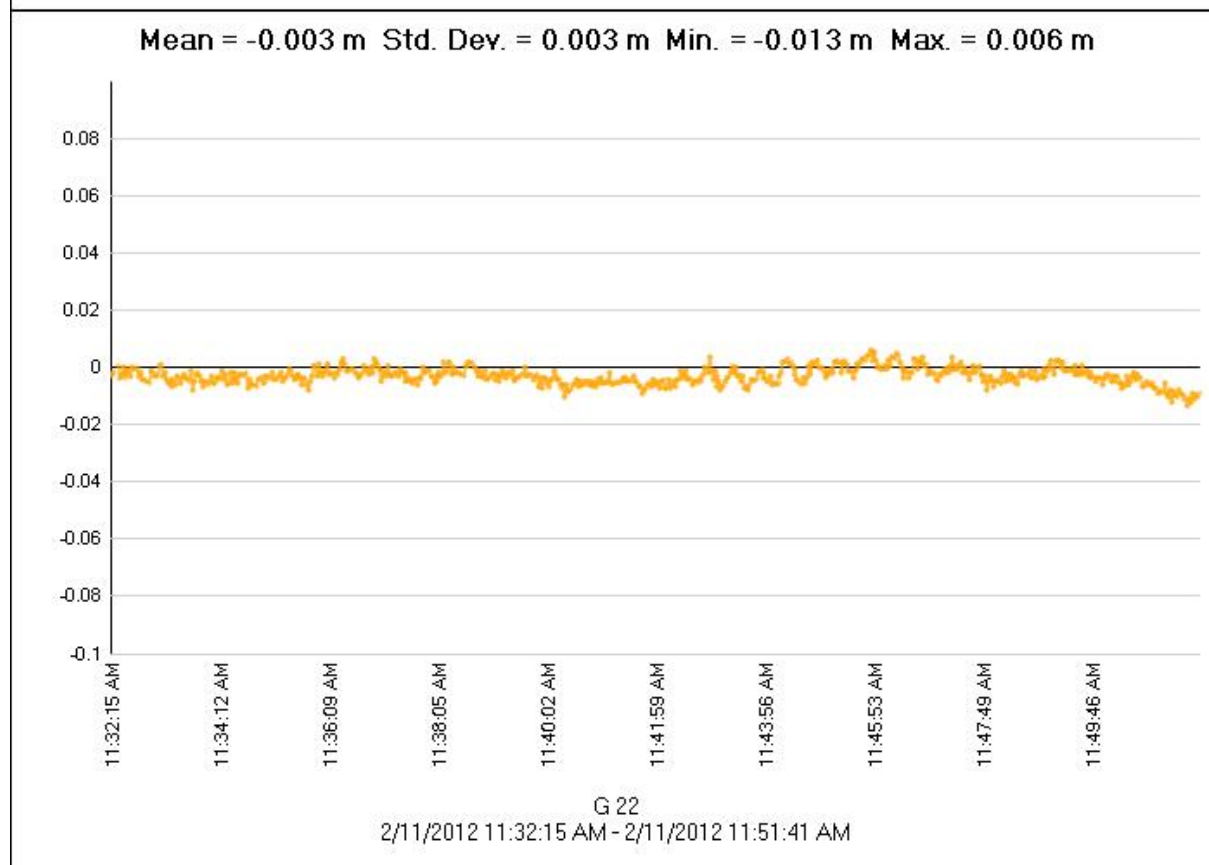
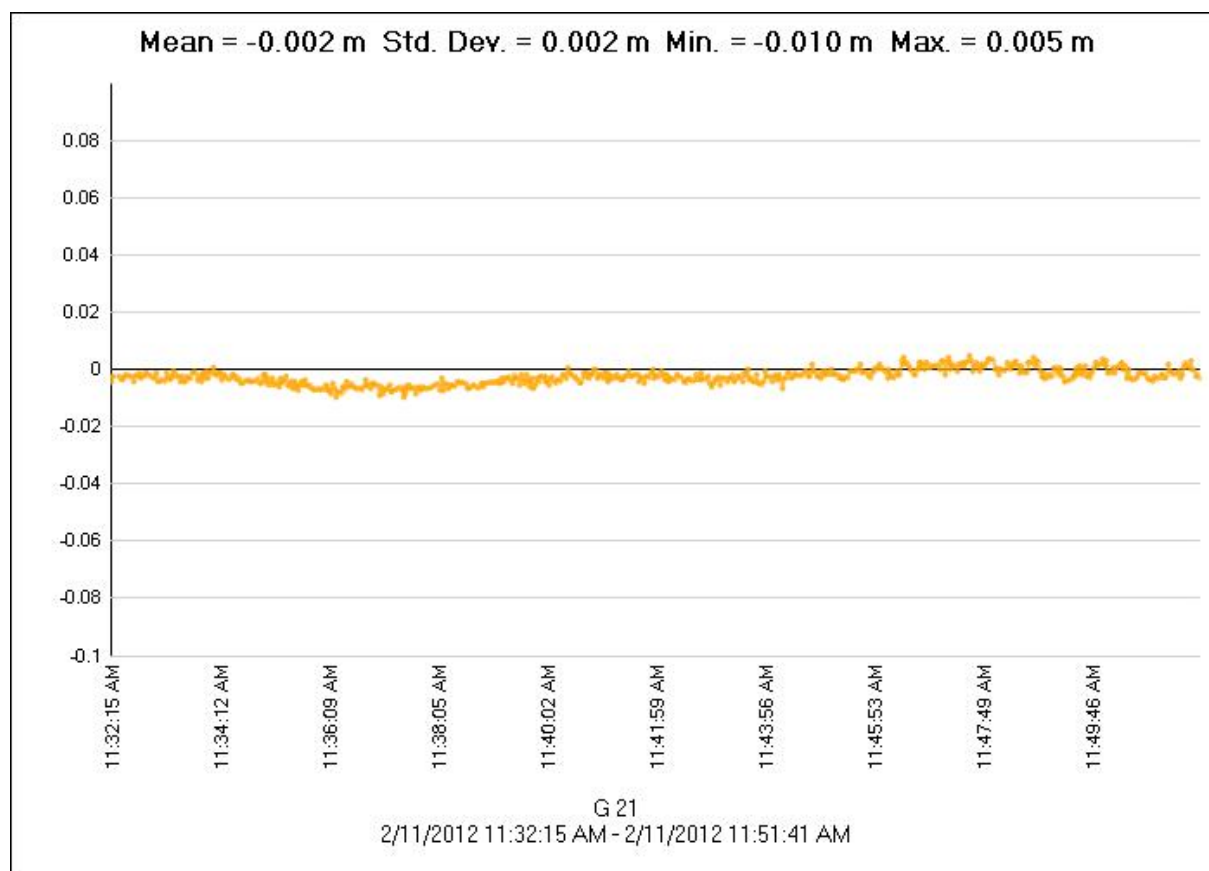
2/11/2012 11:32:15 AM - 2/11/2012 11:51:41 AM

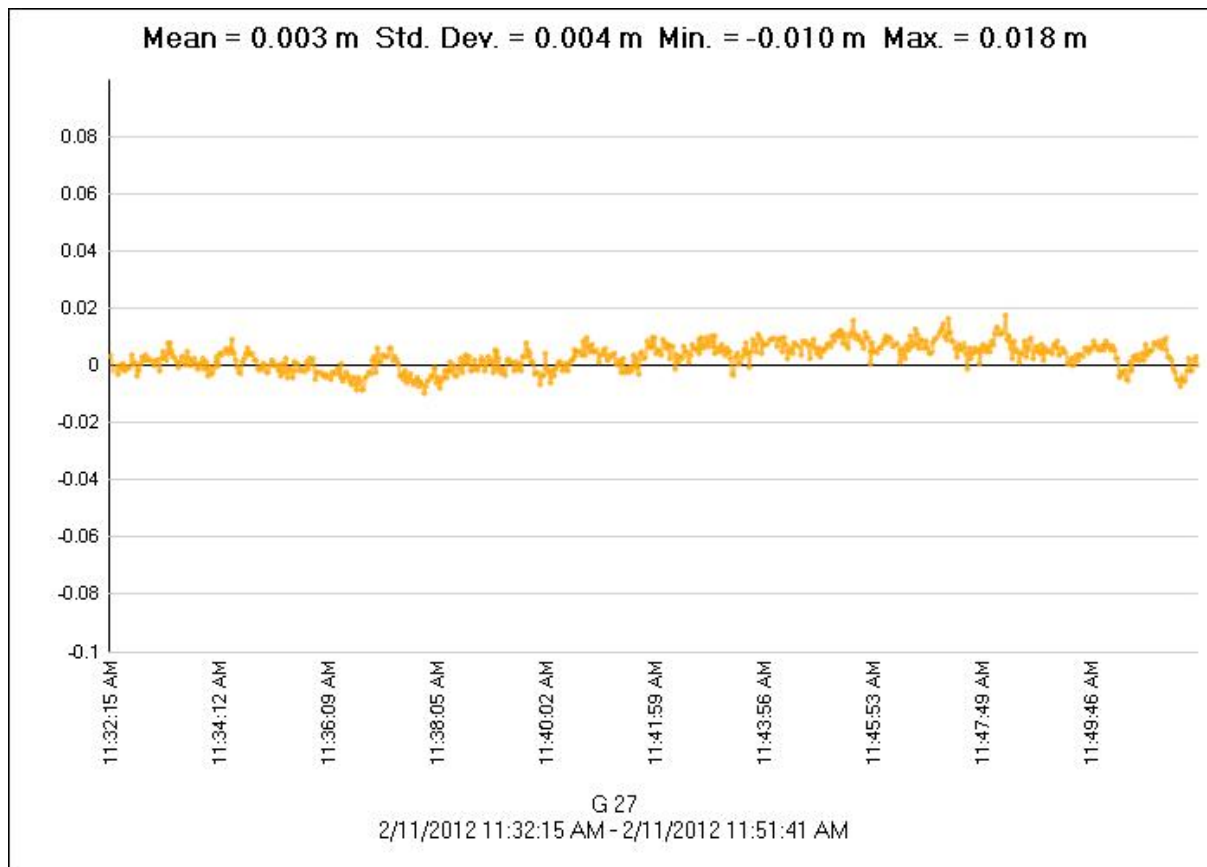
Mean = -0.003 m Std. Dev. = 0.009 m Min. = -0.020 m Max. = 0.028 m



G 19

2/11/2012 11:32:15 AM - 2/11/2012 11:51:41 AM






Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA15-B2 (11:06:31 AM-11:27:52 AM) (S108)

Baseline observation: JH0456 --- FVA15-B2 (B108)

Processed: 3/21/2012 12:13:22 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.021 m

Vertical precision: 0.017 m

RMS: 0.001 m

Maximum PDOP: 5.942

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/11/2012 11:06:31 AM (Local: UTC-7hr)

Processing stop time: 2/11/2012 11:27:52 AM (Local: UTC-7hr)

Processing duration: 00:21:21

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.763 m	Latitude	N38°28'46.37633"	Latitude	N38°28'46.37633"
Northing	4260713.922 m	Longitude	W100°53'19.04161"	Longitude	W100°53'19.04161"
Elevation	911.169 m	Height	886.253 m	Height	886.253 m

To:	FVA15-B2				
Grid		Local		Global	
Easting	351233.197 m	Latitude	N38°26'20.39541"	Latitude	N38°26'20.39541"
Northing	4255900.647 m	Longitude	W100°42'16.51864"	Longitude	W100°42'16.51864"
Elevation	899.496 m	Height	874.341 m	Height	874.341 m

Vector					
9Ughb[	15970.434 m	NS Fwd Azimuth	105°35'50"	L	15257.915 m
Bcfh\jb[	-4813.275 m	Ellipsoid Dist.	16681.620 m	M	-5750.626 m
9`Yj Ufcb	-11.674 m	<Y][\h	-11.912 m	N	-3532.632 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point Description	0°00'00"	Point Type	0.004 m
Point ID	0.008 m	Point Description	0.005 m	Point Type	0.010 m
Point ID	0.009 m	Point Description	0.009 m	Point Type	0.007 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000133584		
Y	0.0000077877	0.0000977872	
Z	-0.0000004169	0.0000037029	0.0000485247

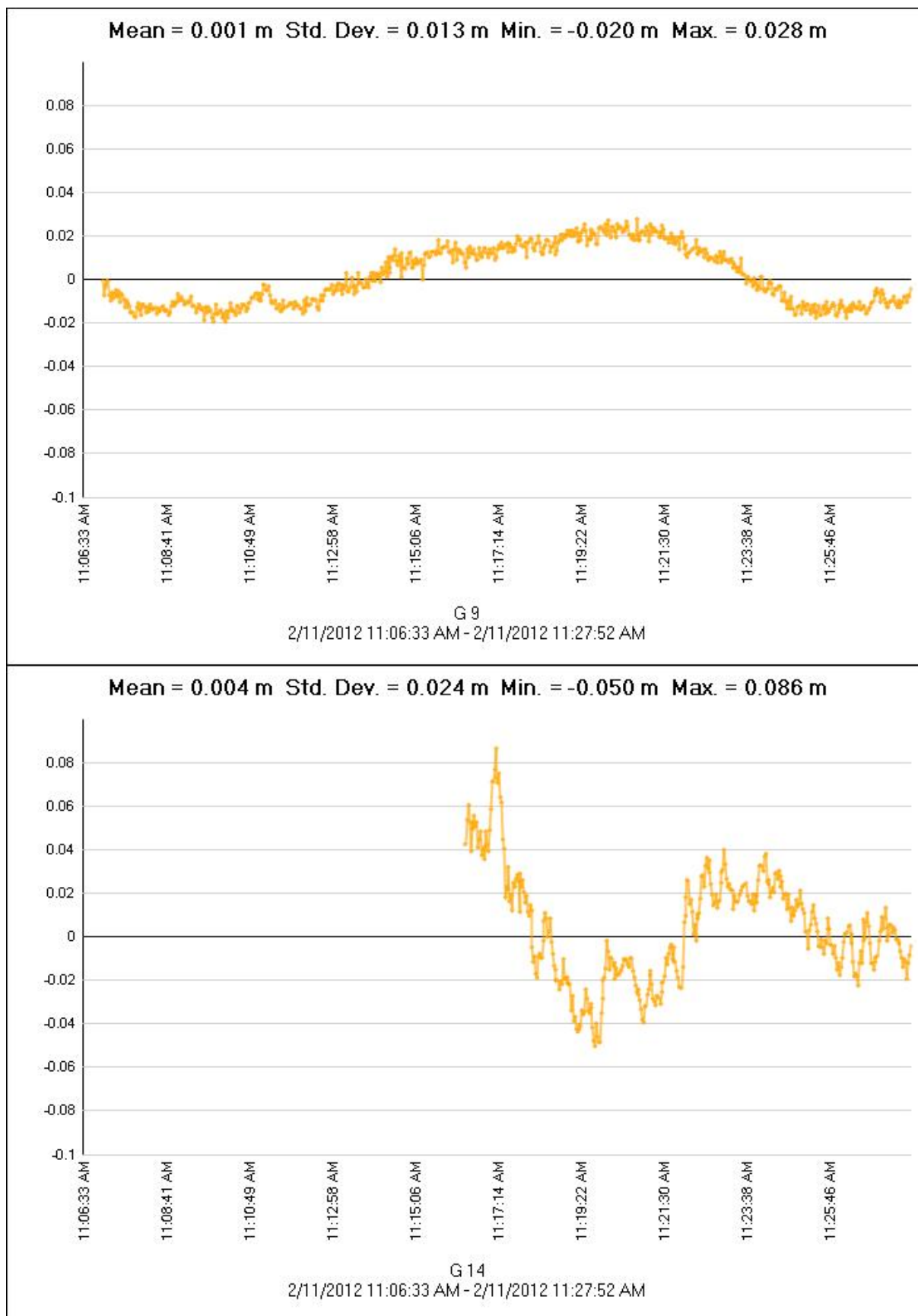
Occupations

	From	To
Point ID:	JH0456	FVA15-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080423.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

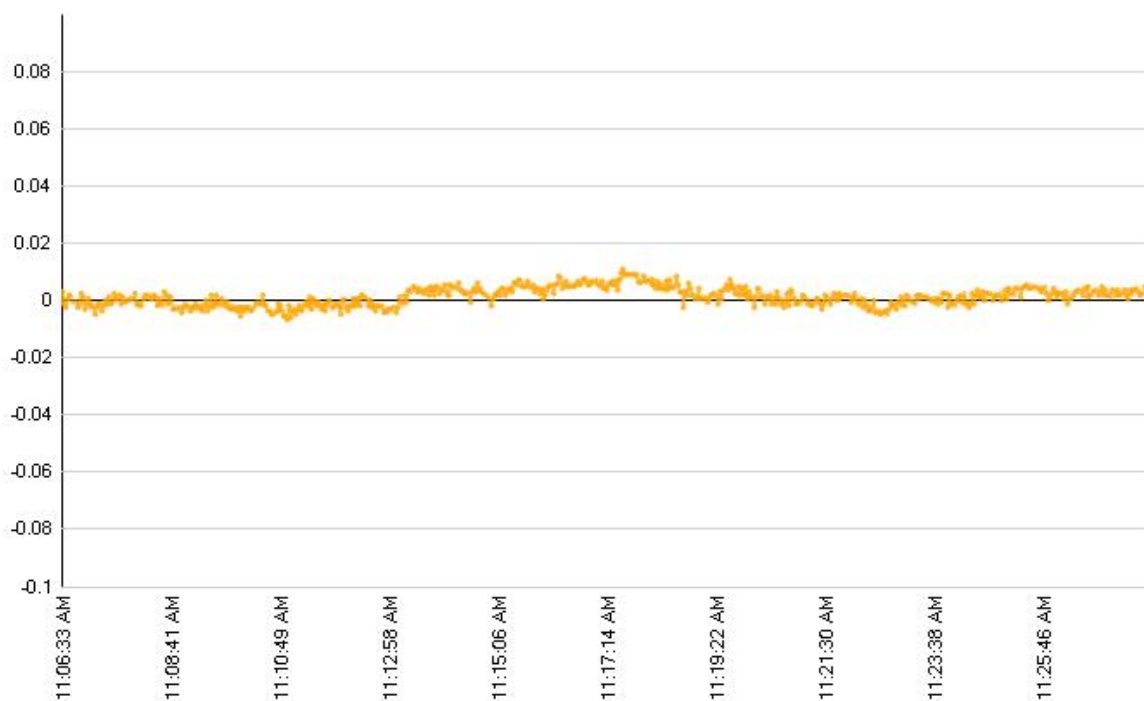
Tracking Summary

SV	2/11/2012 11:06:31 AM	Duration: 00:21:21	Major interval: 00:01:00	2/11/2012 11:27:52 AM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			
G 29	L1 L2			

Residuals



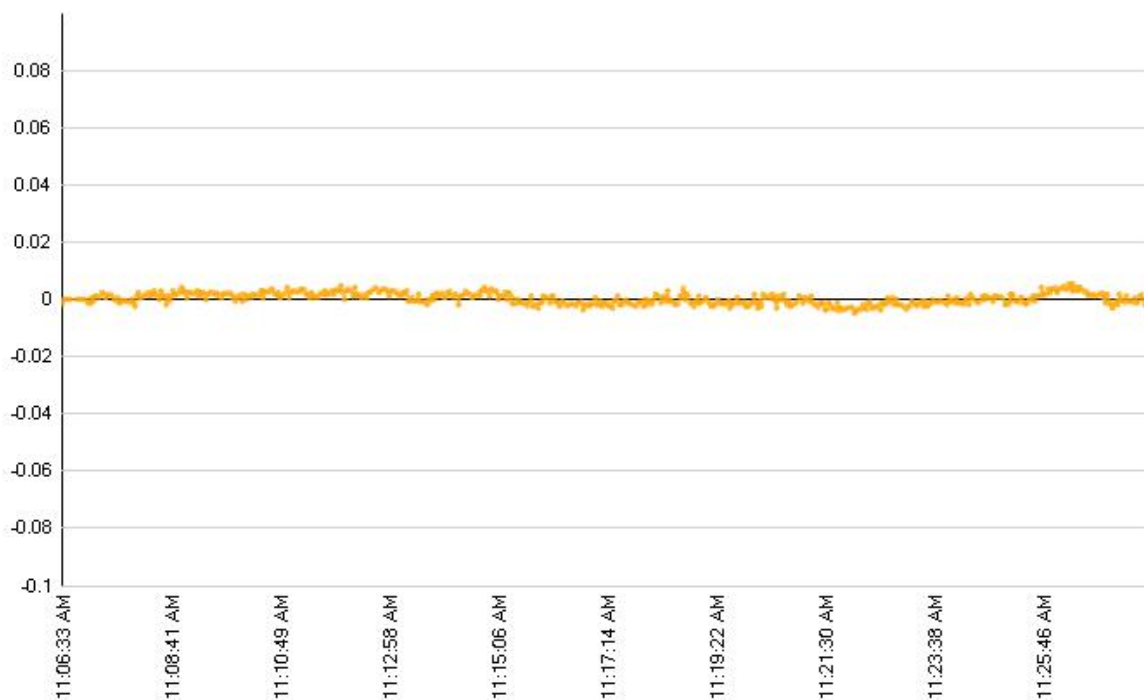
Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.007 m Max. = 0.011 m



G 15

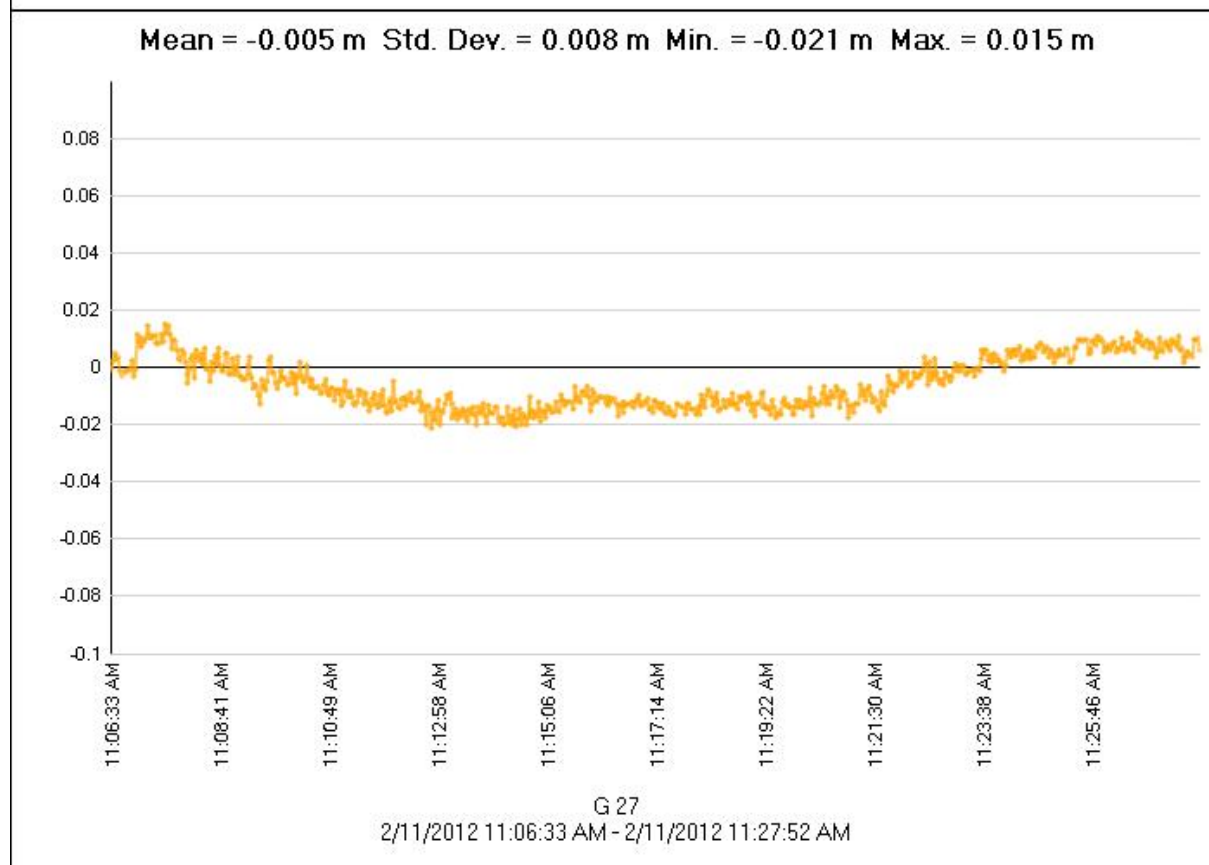
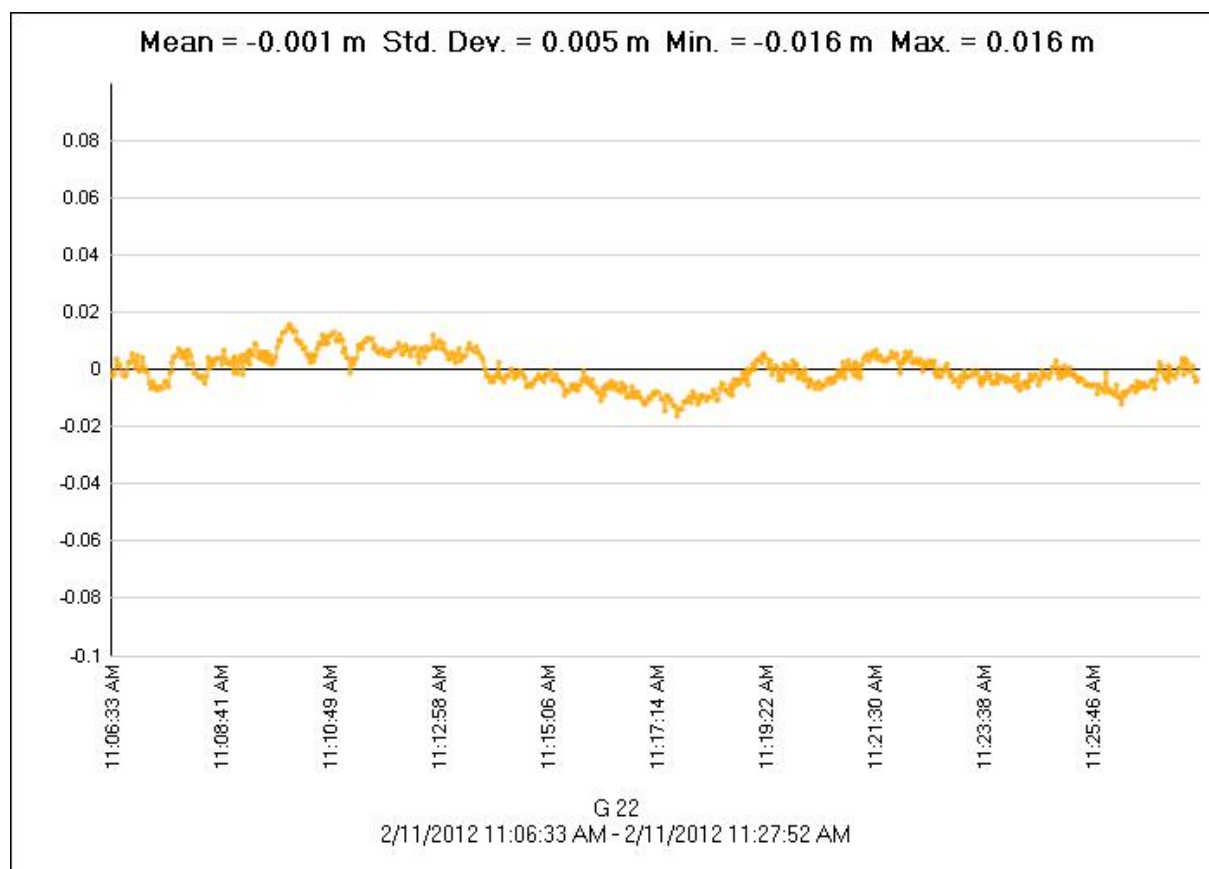
2/11/2012 11:06:33 AM - 2/11/2012 11:27:52 AM

Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.005 m Max. = 0.006 m



G 21

2/11/2012 11:06:33 AM - 2/11/2012 11:27:52 AM



Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA09-B2 (10:27:54 AM-10:46:06 AM) (S109)

Baseline observation: JH0456 --- FVA09-B2 (B109)

Processed: 4/11/2012 2:34:52 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.013 m

Vertical precision: 0.017 m

RMS: 0.003 m

Maximum PDOP: 1.836

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/11/2012 10:27:54 AM (Local: UTC-7hr)

Processing stop time: 2/11/2012 10:46:06 AM (Local: UTC-7hr)

Processing duration: 00:18:12

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.827 m	Latitude	N38°28'46.35964"	Latitude	N38°28'46.35964"
Northing	4260713.386 m	Longitude	W100°53'18.99726"	Longitude	W100°53'18.99726"
Elevation	901.781 m	Height	876.864 m	Height	876.864 m

To:	FVA09-B2				
Grid		Local		Global	
Easting	343238.935 m	Latitude	N38°24'38.77640"	Latitude	N38°24'38.77640"
Northing	4252918.854 m	Longitude	W100°47'43.73466"	Longitude	W100°47'43.73466"
Elevation	907.868 m	Height	882.806 m	Height	882.806 m

Vector					
9Ughb[	7975.108 m	NS Fwd Azimuth	133°10'10"	L	7092.132 m
Bcfh\jb[	-7794.532 m	Ellipsoid Dist.	11152.461 m	M	-6196.618 m
9`Yj Ufcb	6.087 m	<Y][\h	5.942 m	N	-5976.230 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point Description	0°00'00"	Point Type	0.004 m
Point ID	0.005 m	Point Description	0.004 m	Point Type	0.008 m
Point ID	0.008 m	Point Description	0.008 m	Point Type	0.005 m

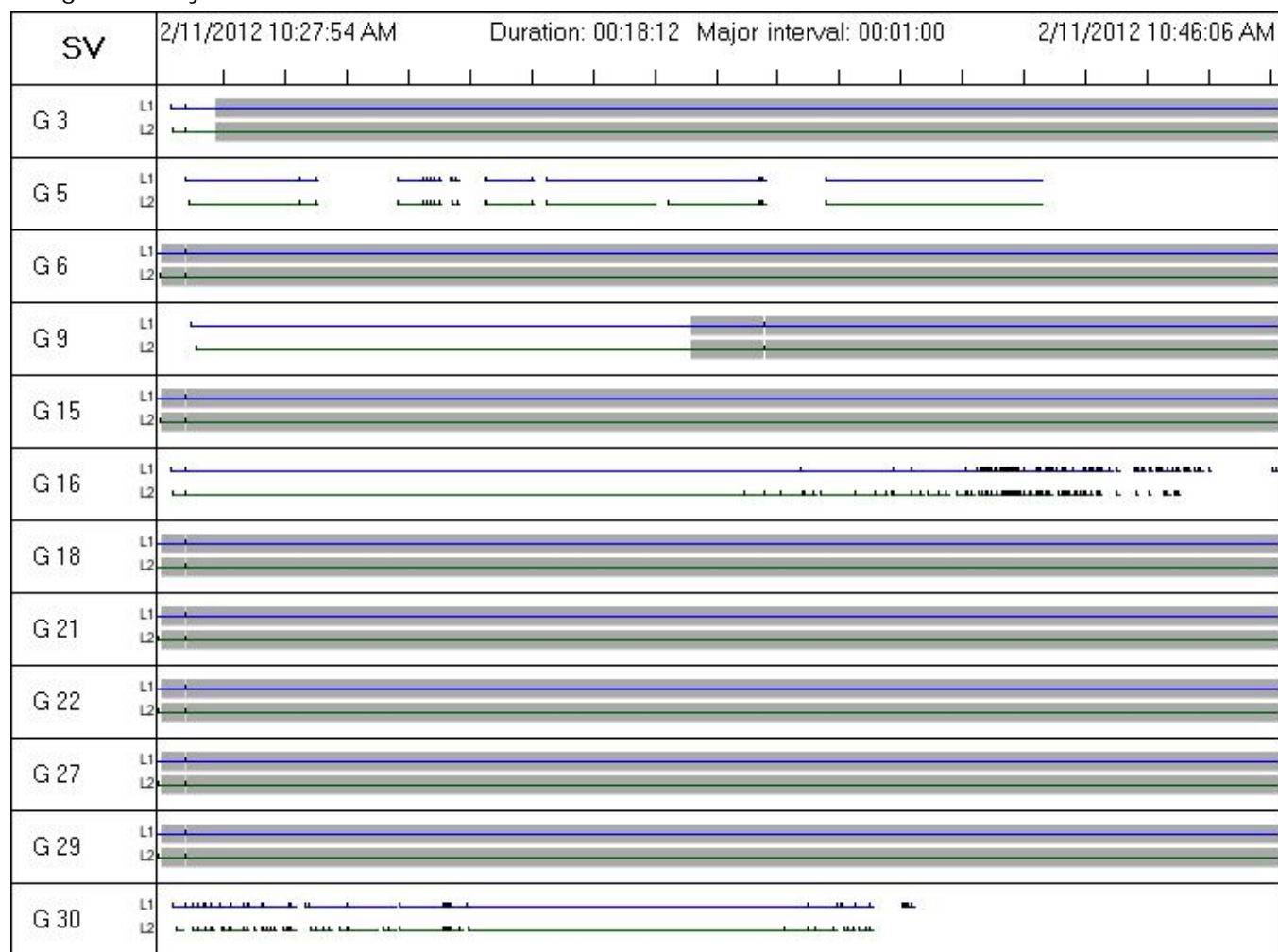
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000201796		
Y	0.0000192738	0.0000644923	
Z	-0.0000040867	-0.0000185271	0.0000259660

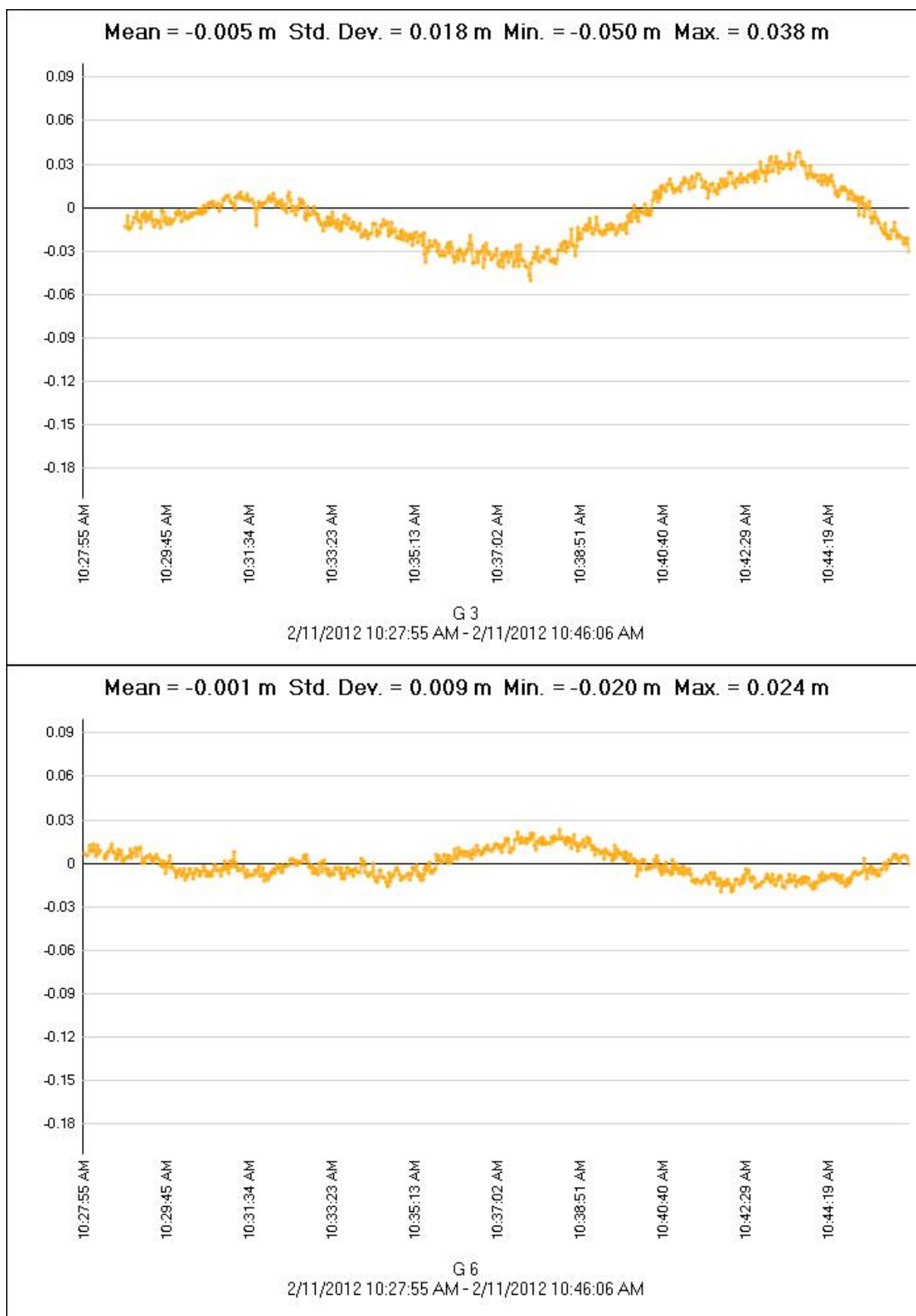
Occupations

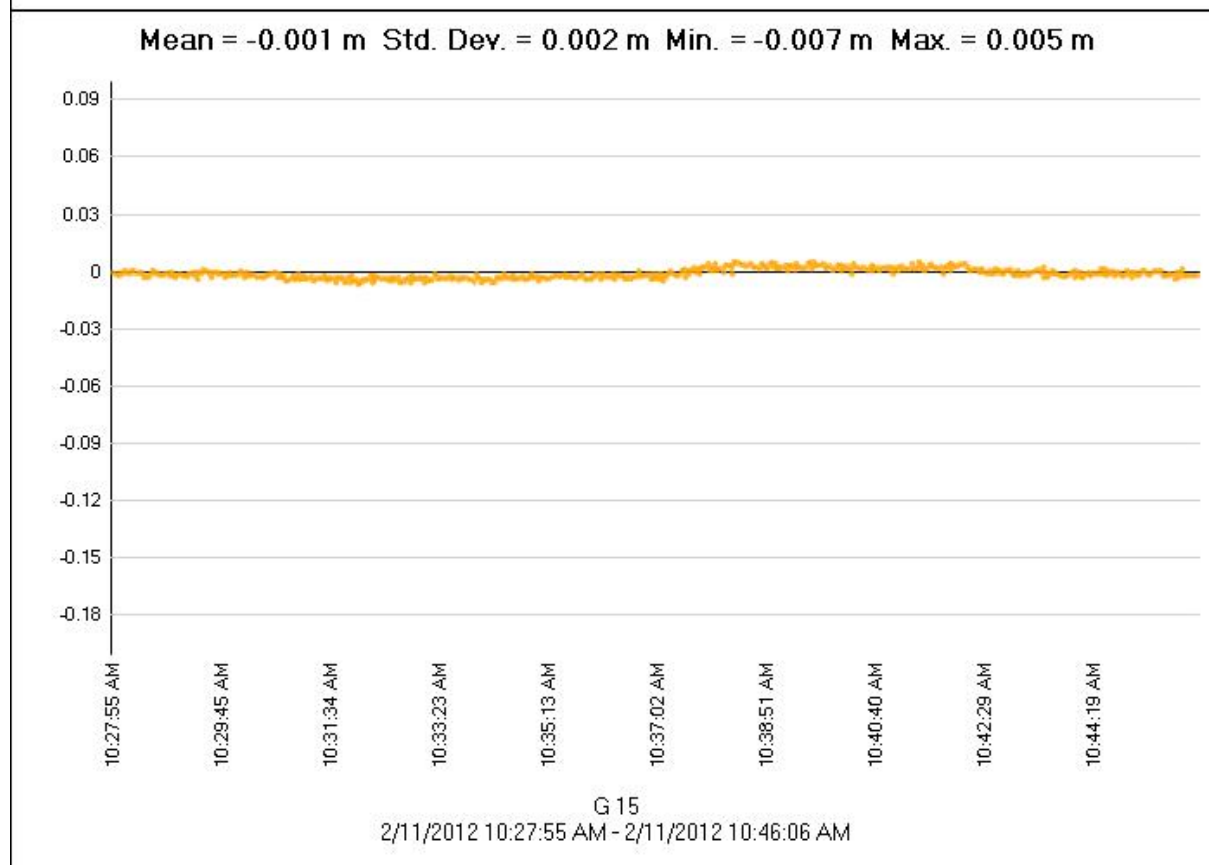
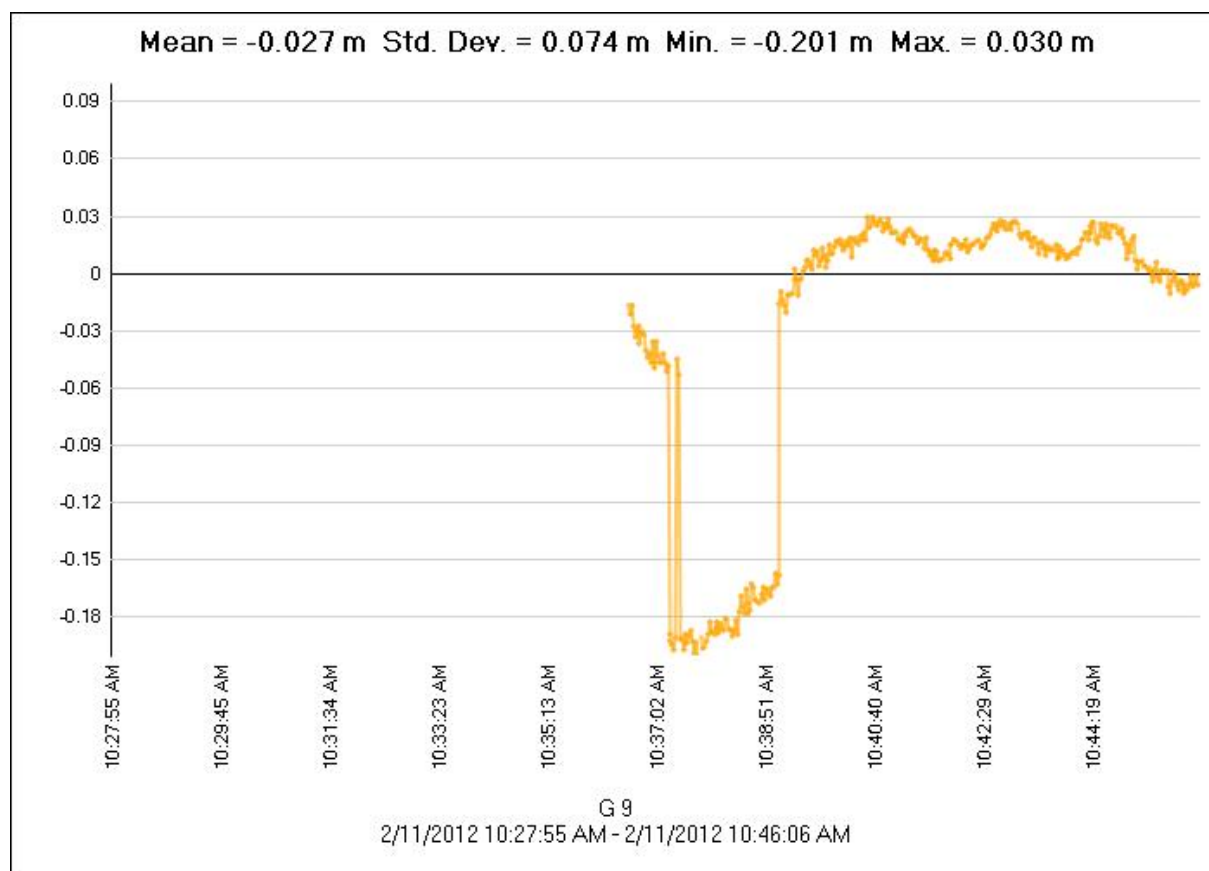
	From	To
Point ID:	JH0456	FVA09-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080422.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

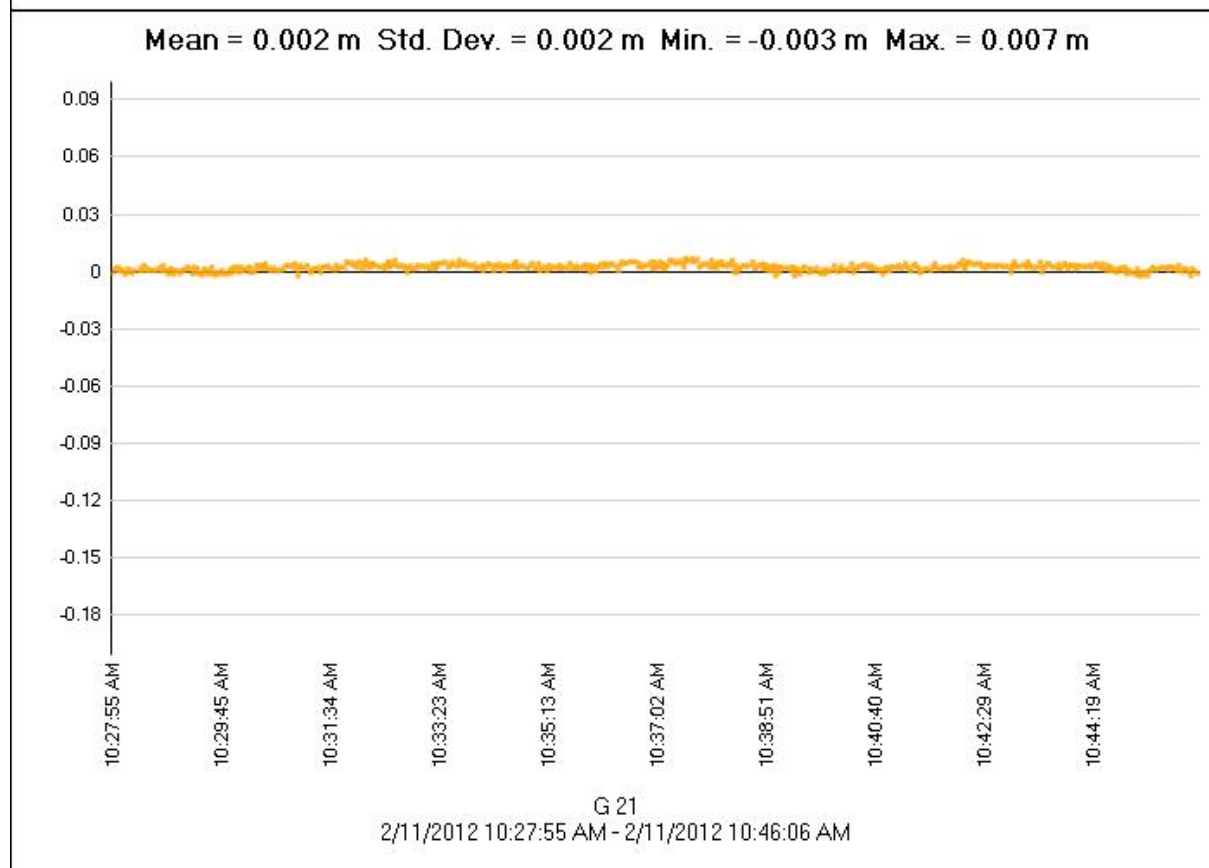
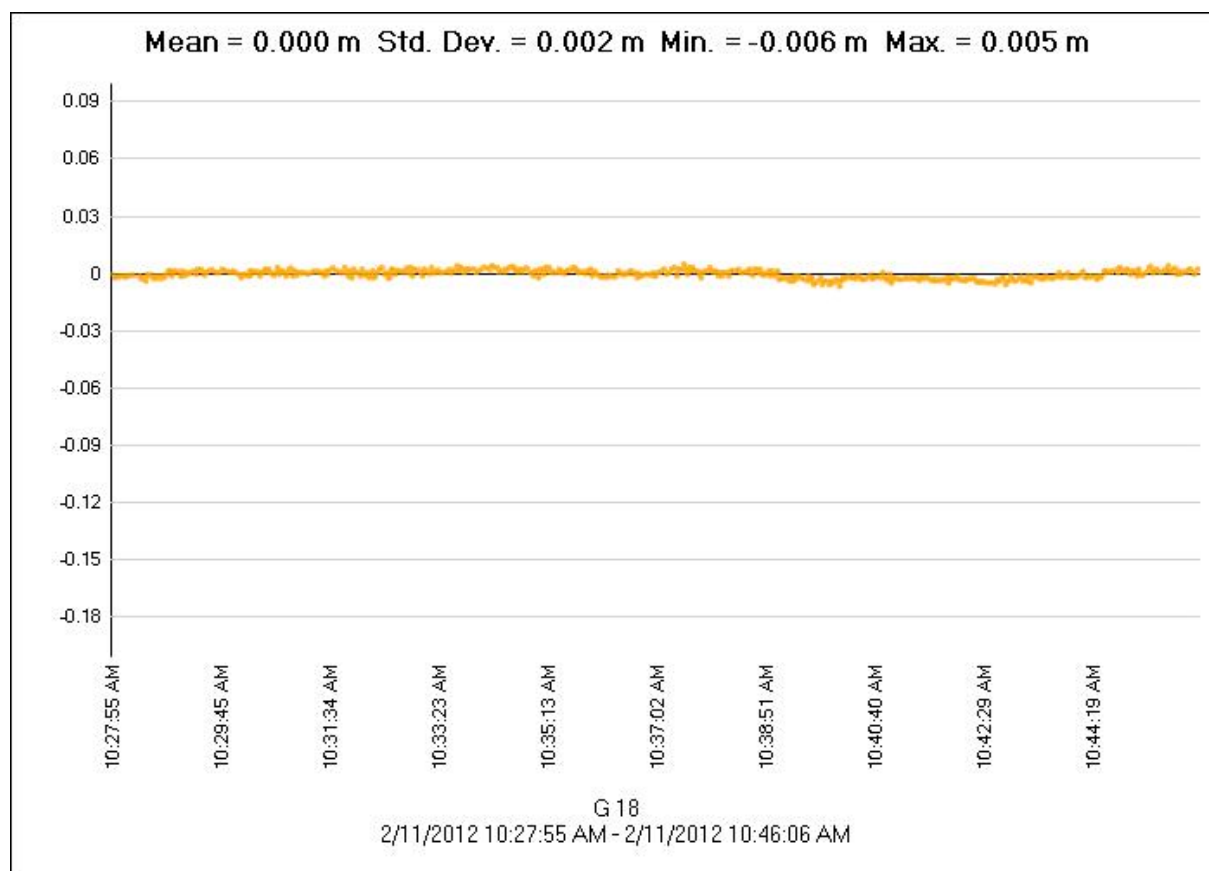
Tracking Summary

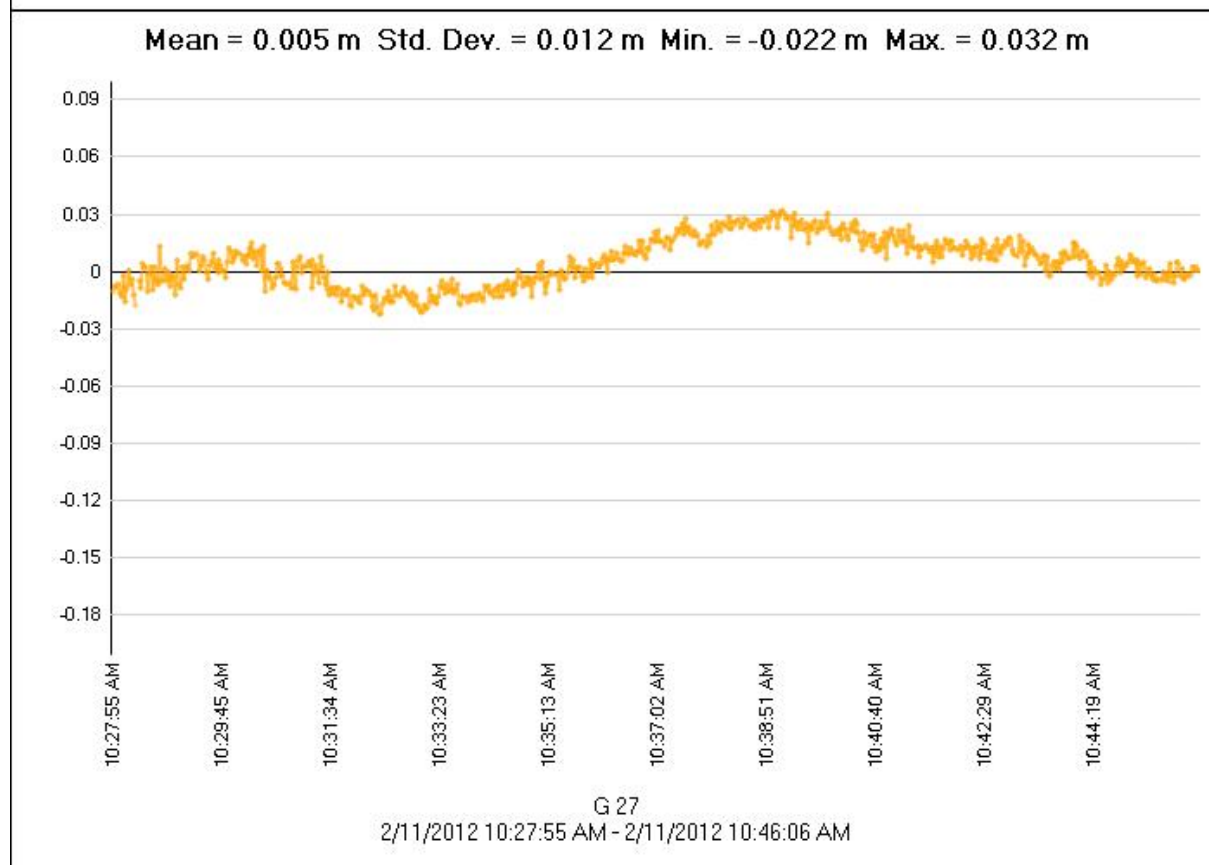
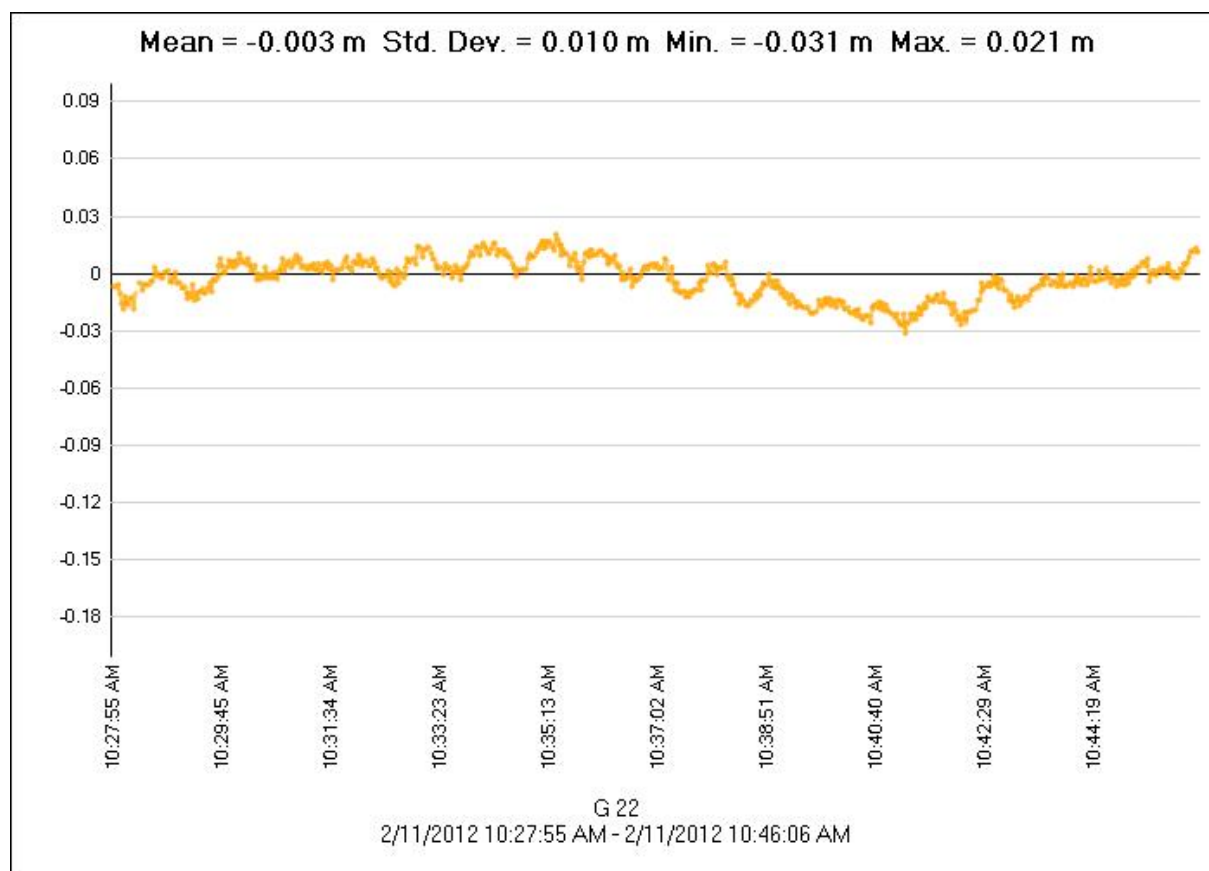


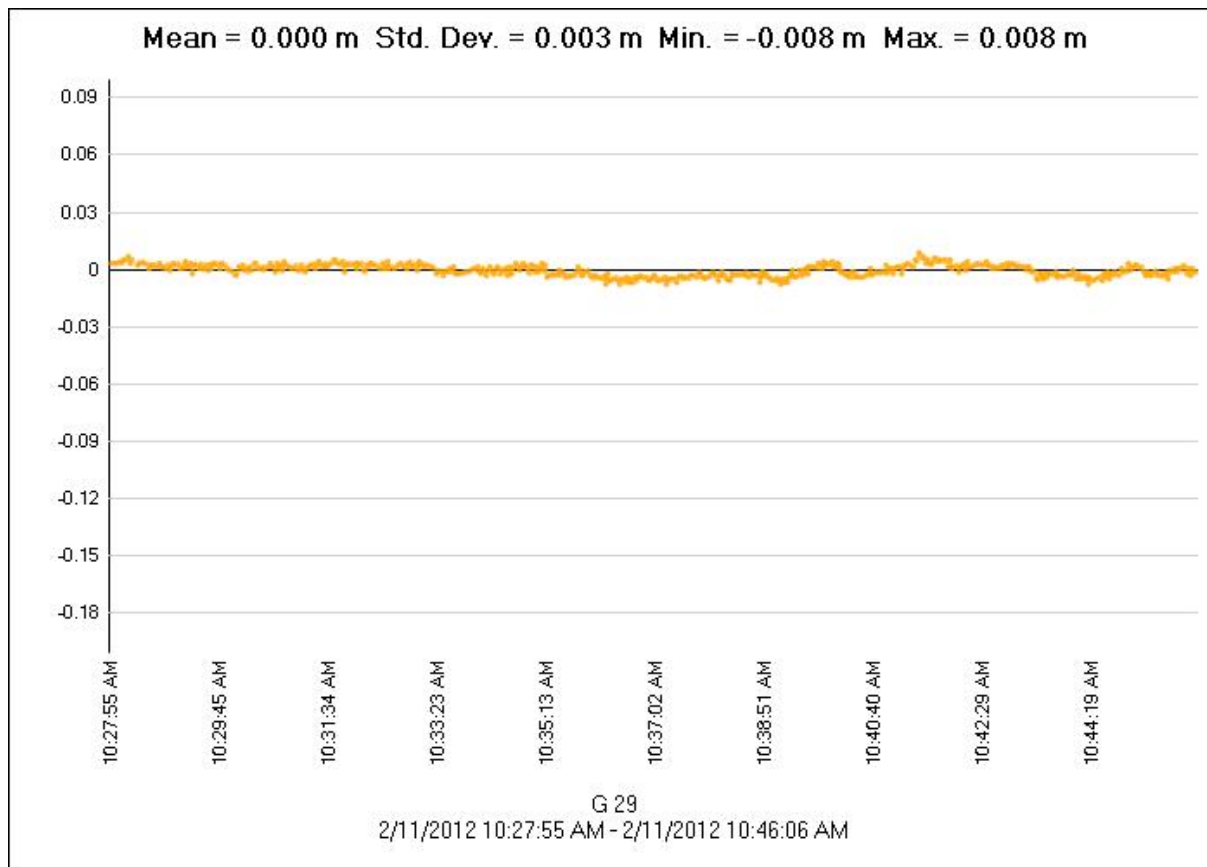
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA05-B2 (9:44:38 AM-10:01:14 AM) (S110)

Baseline observation: JH0456 --- SVA05-B2 (B110)

Processed: 4/9/2012 11:06:42 AM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.007 m

Vertical precision: 0.016 m

RMS: 0.001 m

Maximum PDOP: 4.654

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/11/2012 9:44:38 AM (Local: UTC-7hr)

Processing stop time: 2/11/2012 10:01:14 AM (Local: UTC-7hr)

Processing duration: 00:16:36

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.827 m	Latitude	N38°28'46.35964"	Latitude	N38°28'46.35964"
Northing	4260713.386 m	Longitude	W100°53'18.99726"	Longitude	W100°53'18.99726"
Elevation	901.781 m	Height	876.864 m	Height	876.864 m

To:	SVA05-B2				
Grid		Local		Global	
Easting	333668.488 m	Latitude	N38°29'31.19286"	Latitude	N38°29'31.19285"
Northing	4262128.920 m	Longitude	W100°54'26.01658"	Longitude	W100°54'26.01658"
Elevation	906.065 m	Height	881.182 m	Height	881.182 m

Vector					
9Ughb[	-1595.339 m	NS Fwd Azimuth	310°24'25"	L	-1433.179 m
Bcfh\jb[	1415.535 m	Ellipsoid Dist.	2132.935 m	M	1148.725 m
9Yj Uhcb	4.284 m	<Y][\h	4.318 m	N	1084.950 m

Standard Errors

Vector errors:					
Point ID	0.002 m	Point ID	0°00'00"	Point ID	0.003 m
Point ID	0.003 m	Point ID	0.002 m	Point ID	0.006 m
Point ID	0.008 m	Point ID	0.008 m	Point ID	0.006 m

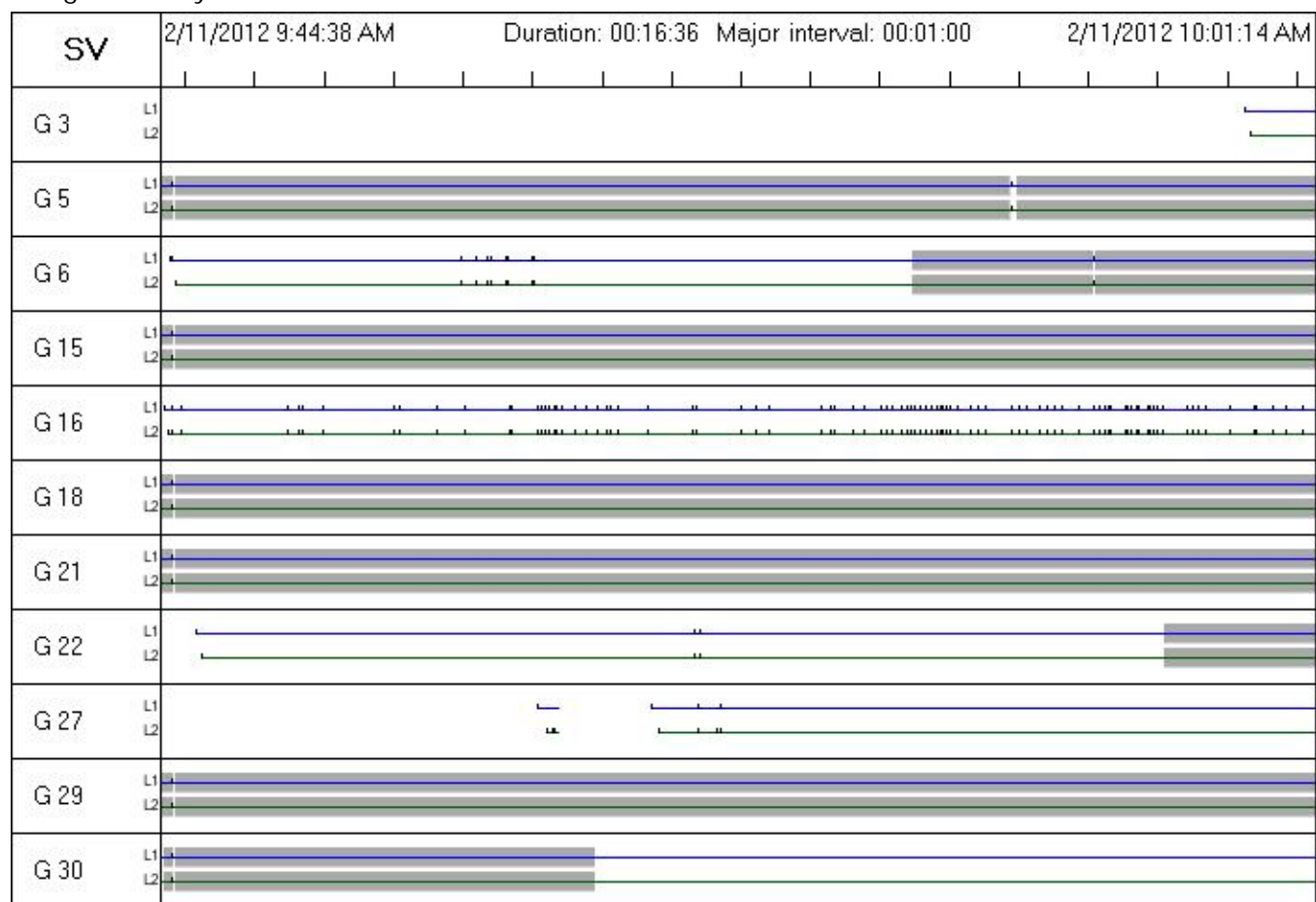
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000069094		
Y	0.0000089493	0.0000349041	
Z	-0.0000055520	-0.0000287498	0.0000339615

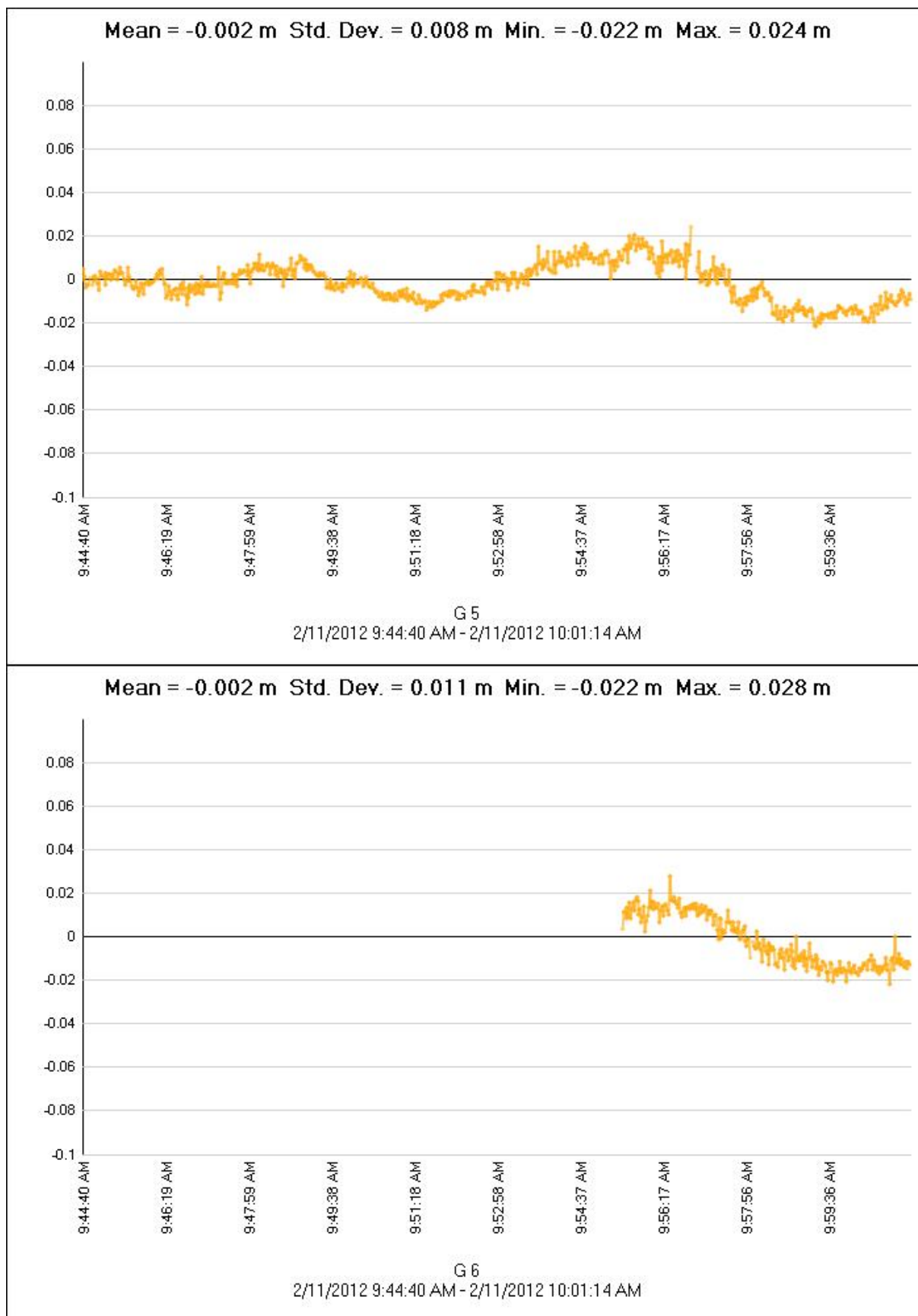
Occupations

	From	To
Point ID:	JH0456	SVA05-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080421.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

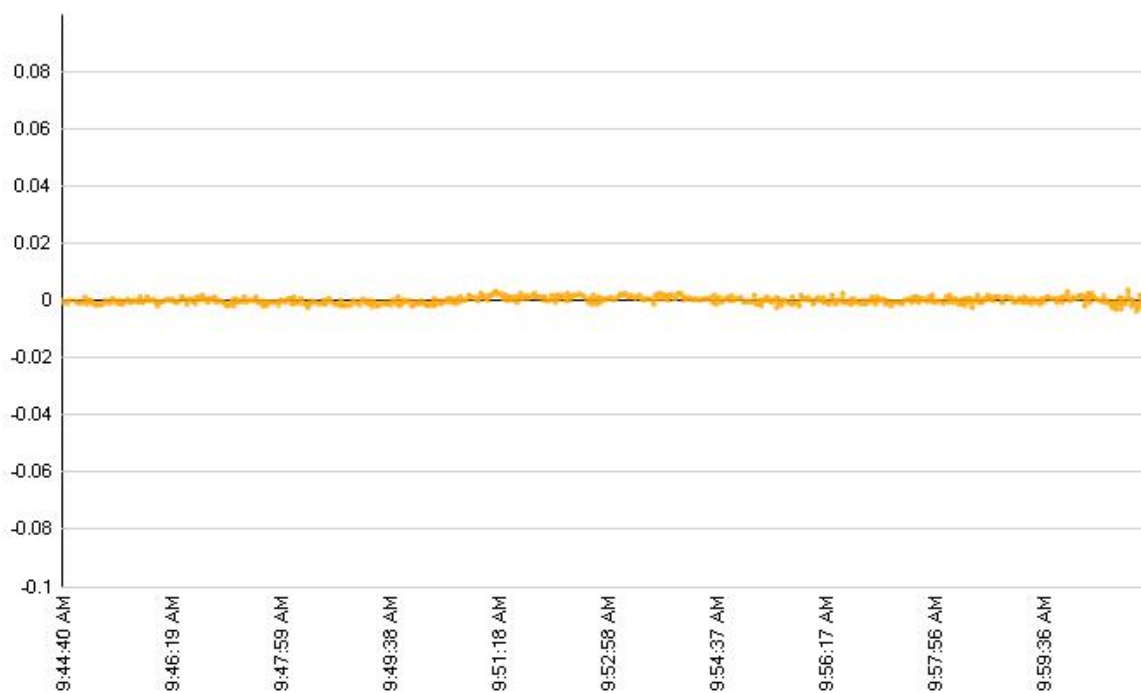
Tracking Summary



Residuals

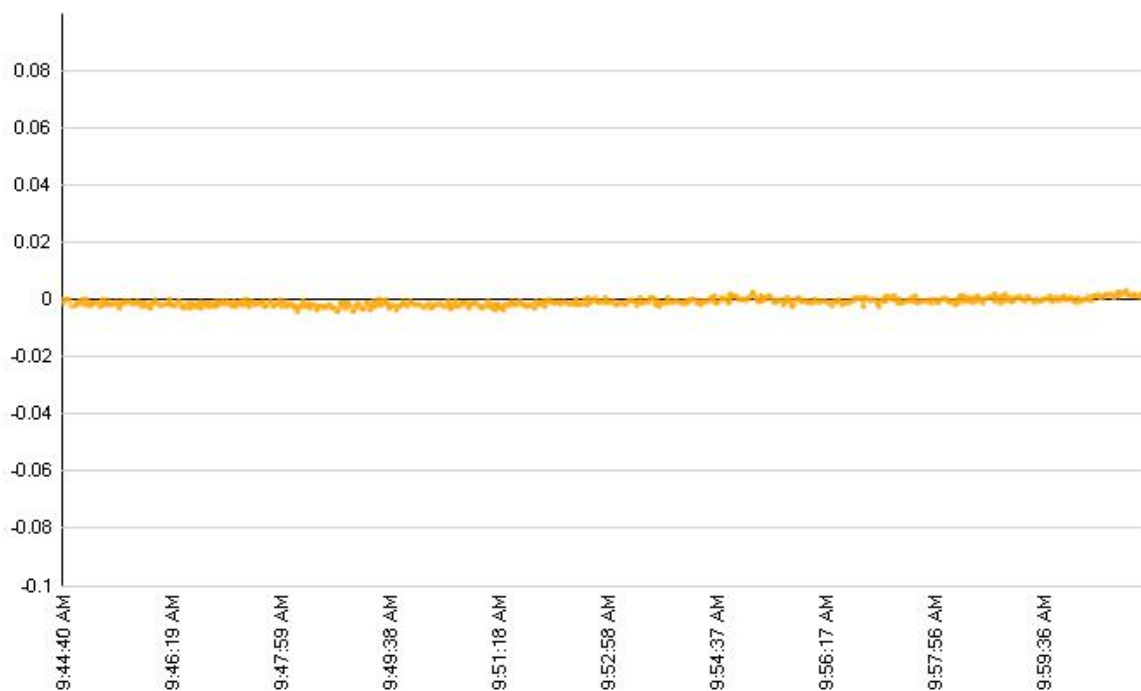


Mean = 0.000 m Std. Dev. = 0.001 m Min. = -0.003 m Max. = 0.004 m



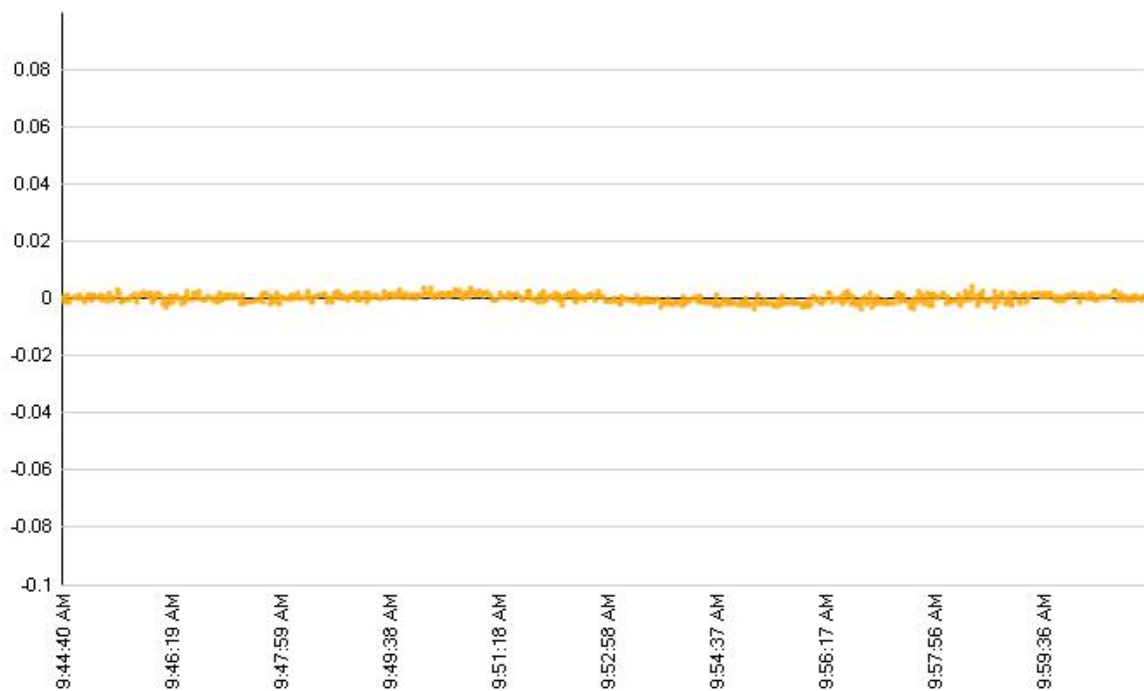
G 15
2/11/2012 9:44:40 AM - 2/11/2012 10:01:14 AM

Mean = -0.001 m Std. Dev. = 0.001 m Min. = -0.004 m Max. = 0.003 m



G 18
2/11/2012 9:44:40 AM - 2/11/2012 10:01:14 AM

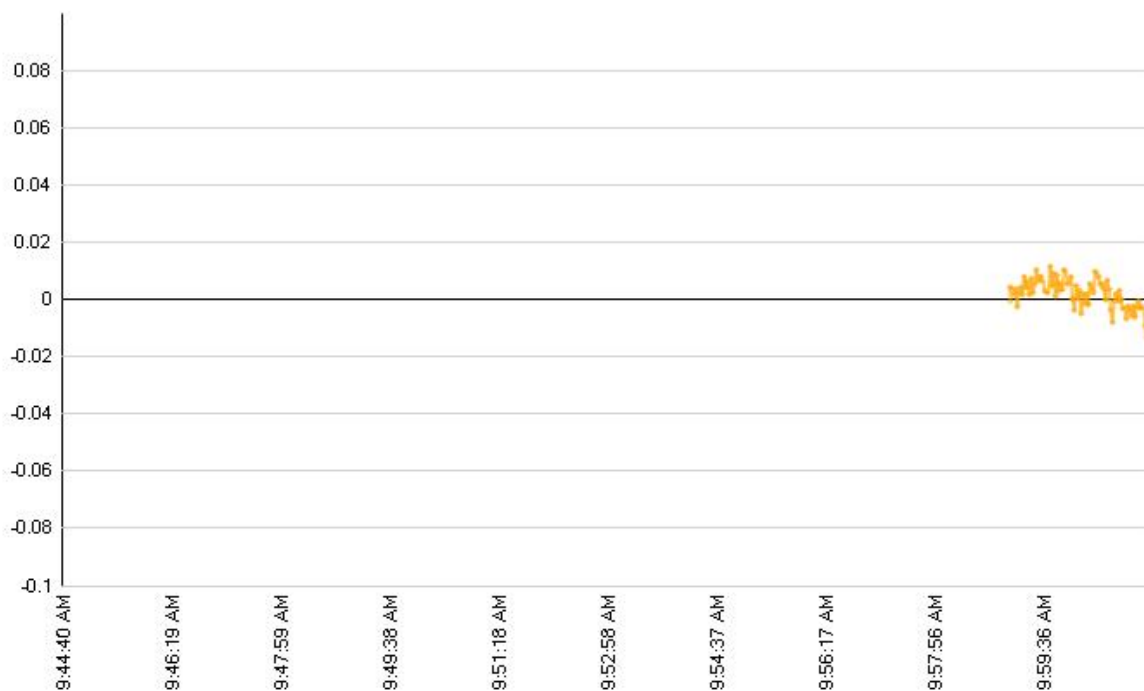
Mean = 0.000 m Std. Dev. = 0.001 m Min. = -0.004 m Max. = 0.005 m



G 21

2/11/2012 9:44:40 AM - 2/11/2012 10:01:14 AM

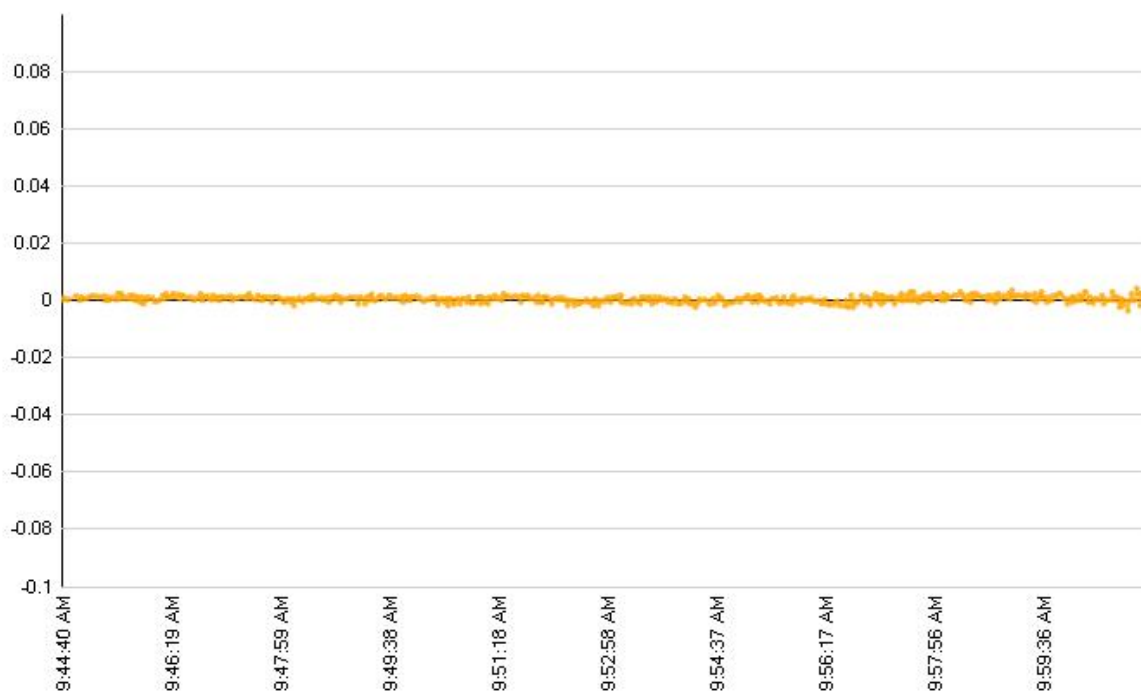
Mean = 0.002 m Std. Dev. = 0.005 m Min. = -0.013 m Max. = 0.012 m



G 22

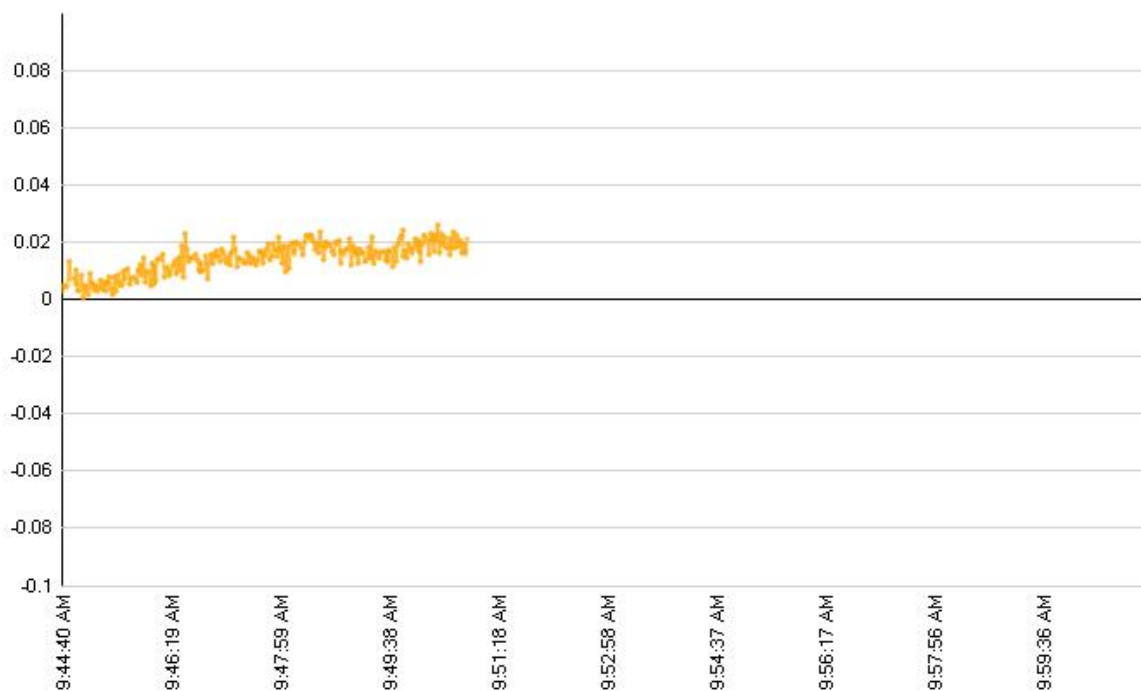
2/11/2012 9:44:40 AM - 2/11/2012 10:01:14 AM

Mean = 0.000 m Std. Dev. = 0.001 m Min. = -0.004 m Max. = 0.004 m



G 29
2/11/2012 9:44:40 AM - 2/11/2012 10:01:14 AM

Mean = 0.014 m Std. Dev. = 0.006 m Min. = -0.002 m Max. = 0.026 m



G 30
2/11/2012 9:44:40 AM - 2/11/2012 10:01:14 AM

Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA05-B2 (9:08:54 AM-9:28:51 AM) (S111)

Baseline observation:	JH0456 --- FVA05-B2 (B111)
Processed:	4/9/2012 11:07:01 AM
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.003 m
Vertical precision:	0.006 m
RMS:	0.000 m
Maximum PDOP:	2.842
Ephemeris used:	Broadcast
Antenna model:	US National Geodetic Survey Calibration
Processing start time:	2/11/2012 9:10:03 AM (Local: UTC-7hr)
Processing stop time:	2/11/2012 9:28:51 AM (Local: UTC-7hr)
Processing duration:	00:18:48
Processing interval:	.5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.827 m	Latitude	N38°28'46.35964"	Latitude	N38°28'46.35964"
Northing	4260713.386 m	Longitude	W100°53'18.99726"	Longitude	W100°53'18.99726"
Elevation	901.781 m	Height	876.864 m	Height	876.864 m

To:	FVA05-B2				
Grid		Local		Global	
Easting	334534.102 m	Latitude	N38°28'34.01936"	Latitude	N38°28'34.01935"
Northing	4260347.823 m	Longitude	W100°53'48.78848"	Longitude	W100°53'48.78848"
Elevation	903.106 m	Height	878.203 m	Height	878.203 m

Vector					
9Ughb[	-729.725 m	NS Fwd Azimuth	242°12'56"	L	-754.134 m
Bcfh\jb[	-365.562 m	Ellipsoid Dist.	816.223 m	M	-97.079 m
9Yj Uhcb	1.325 m	<Y][\h	1.339 m	N	-297.091 m

Standard Errors

Vector errors:					
Point ID	0.001 m	Point Description	0°00'00"	Point Type	0.001 m
Point ID	0.001 m	Point Description	0.001 m	Point Type	0.002 m
Point ID	0.003 m	Point Description	0.003 m	Point Type	0.003 m

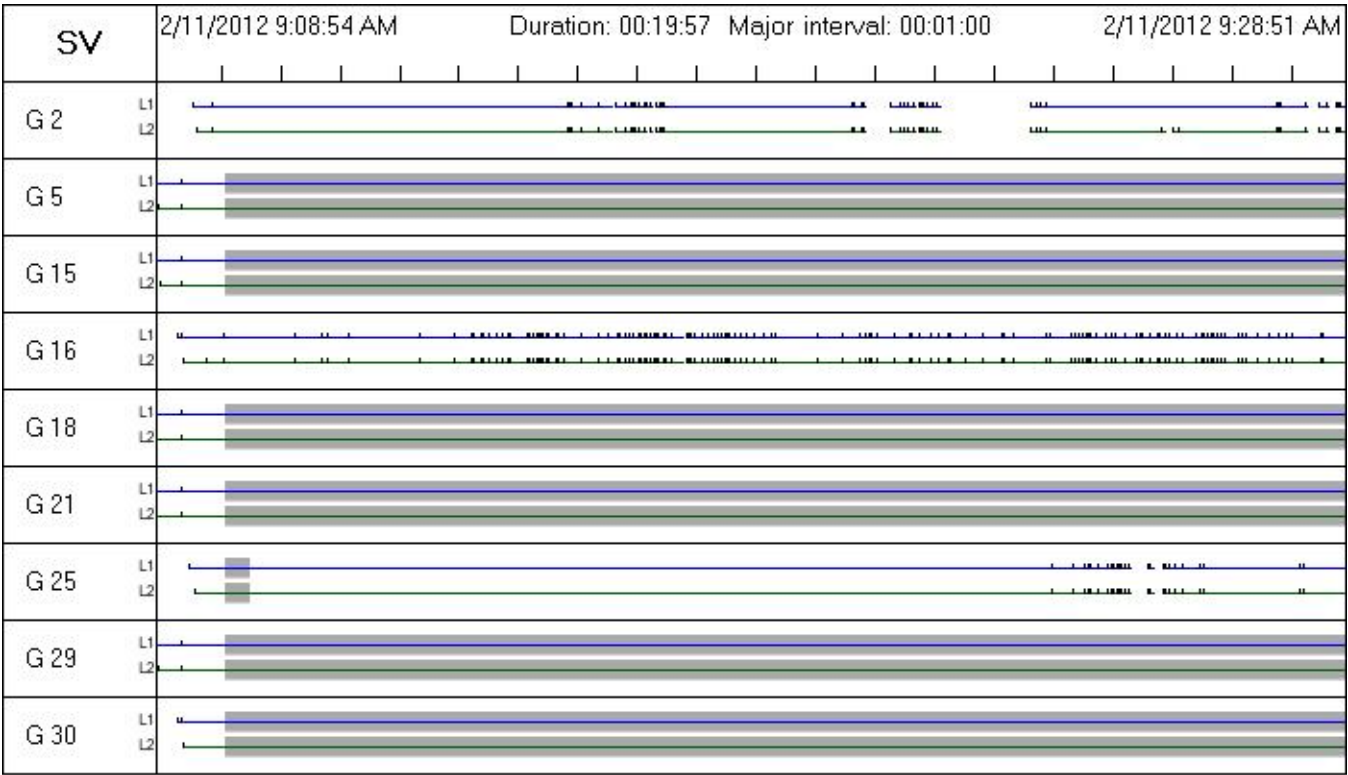
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000012757		
Y	0.0000007543	0.0000043628	
Z	-0.0000005495	-0.0000038405	0.0000065313

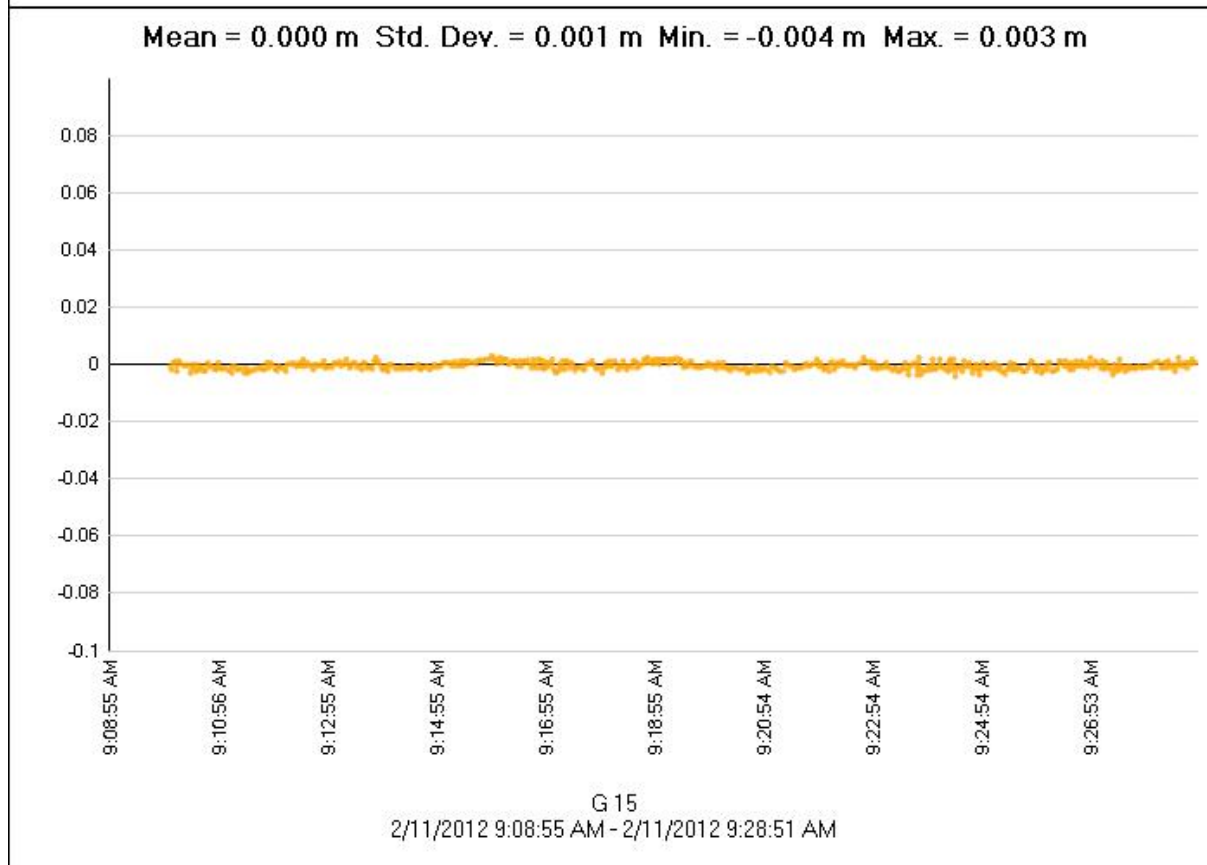
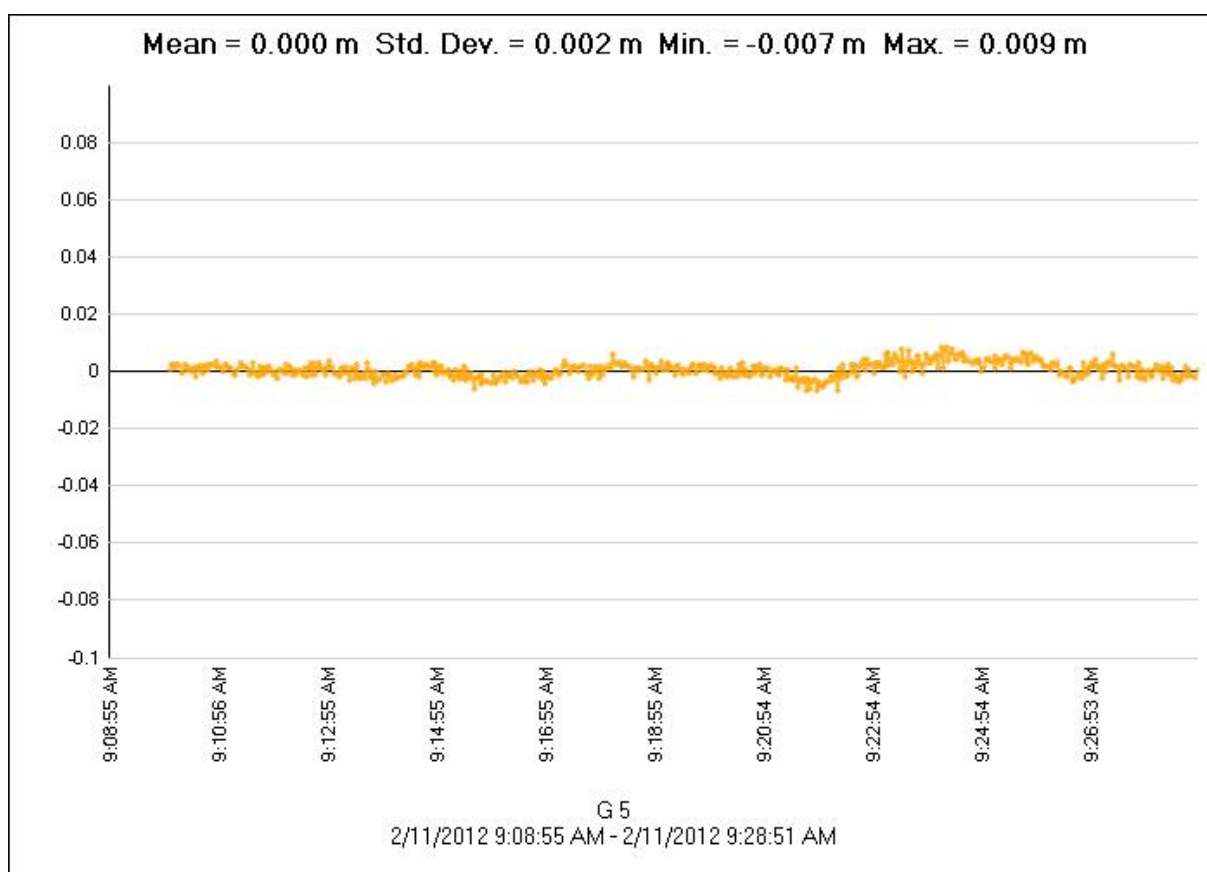
Occupations

	From	To
Point ID:	JH0456	FVA05-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010420.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080420.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

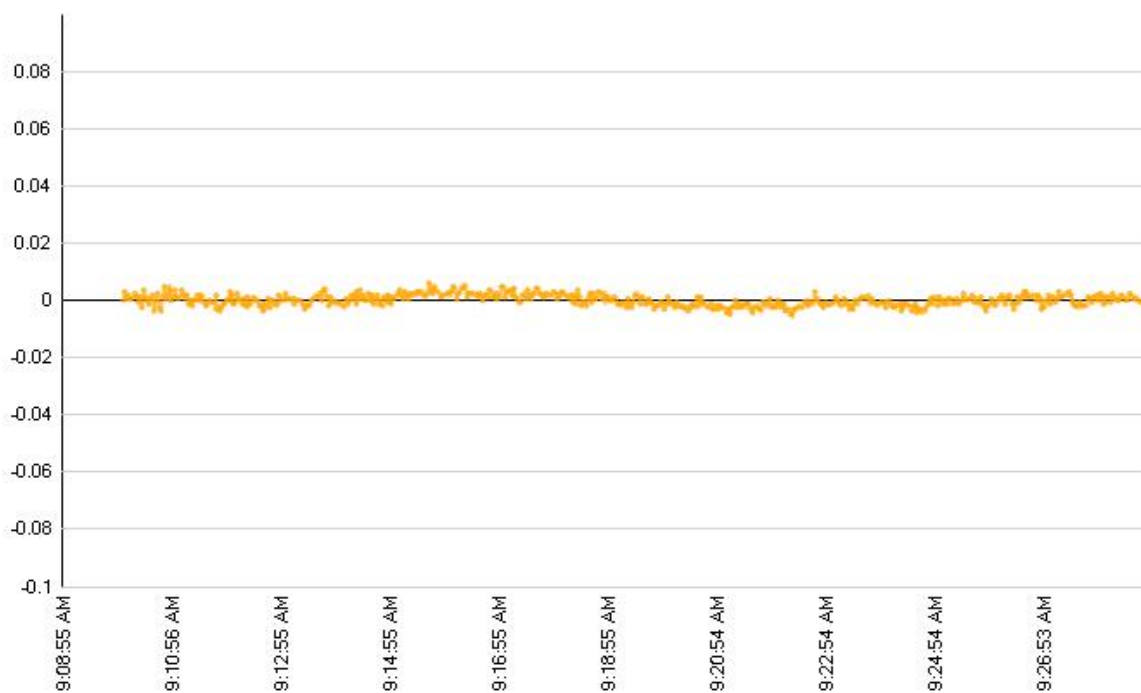
Tracking Summary



Residuals

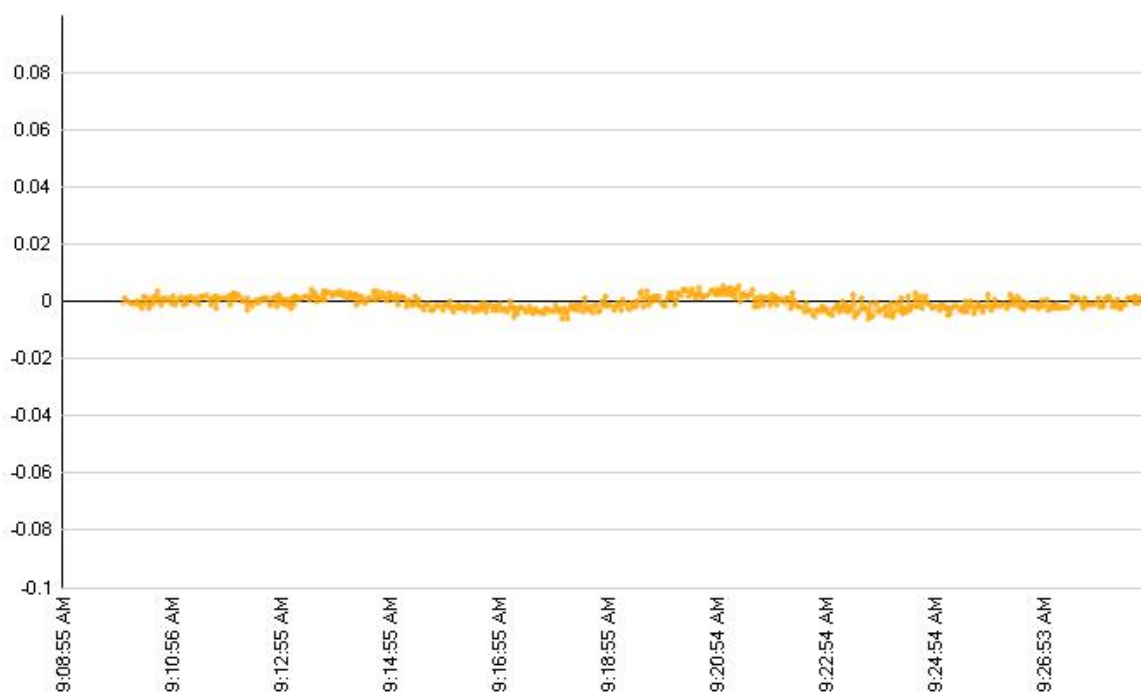


Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.005 m Max. = 0.006 m



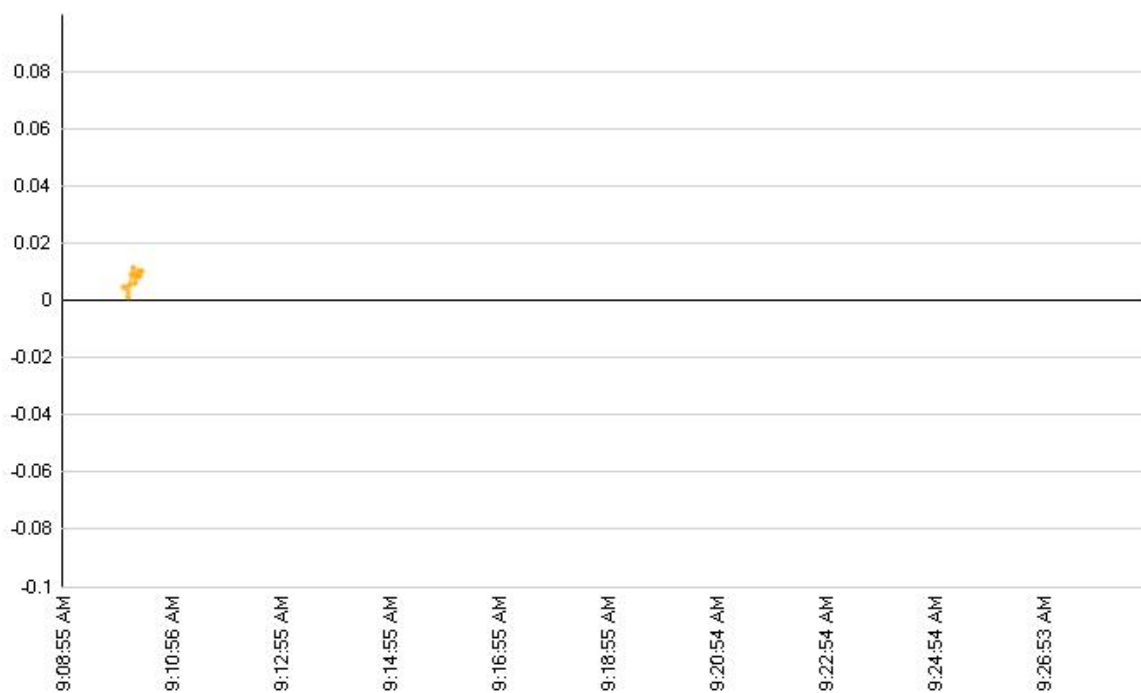
G 18
2/11/2012 9:08:55 AM - 2/11/2012 9:28:51 AM

Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.006 m



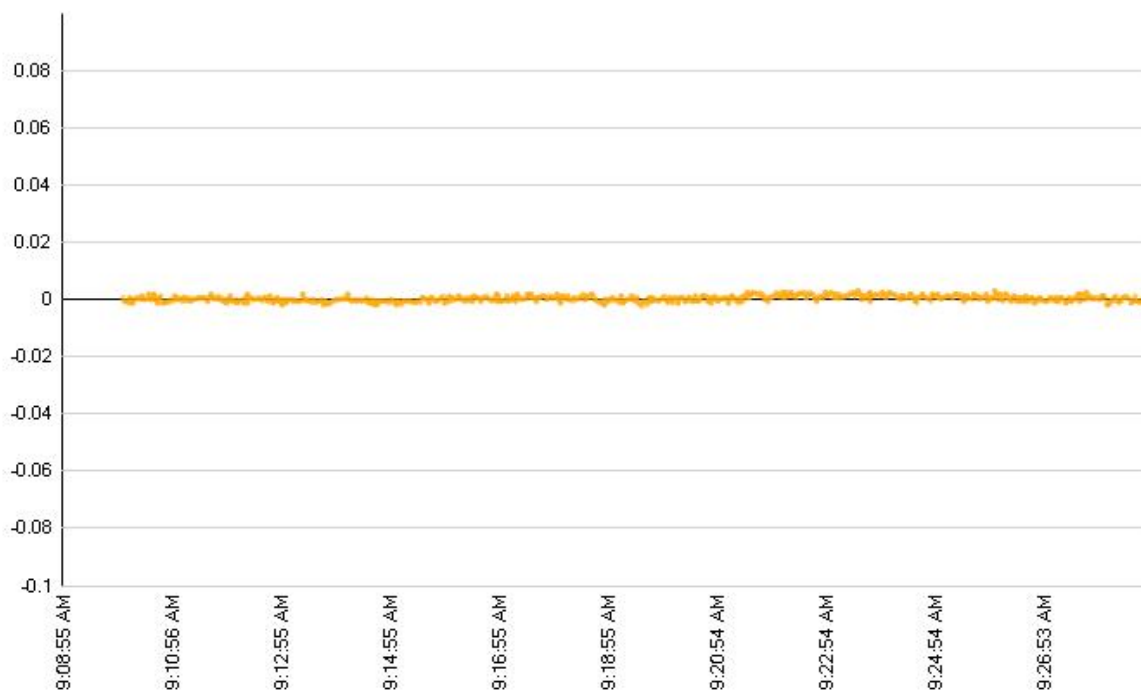
G 21
2/11/2012 9:08:55 AM - 2/11/2012 9:28:51 AM

Mean = 0.007 m Std. Dev. = 0.003 m Min. = 0.001 m Max. = 0.011 m

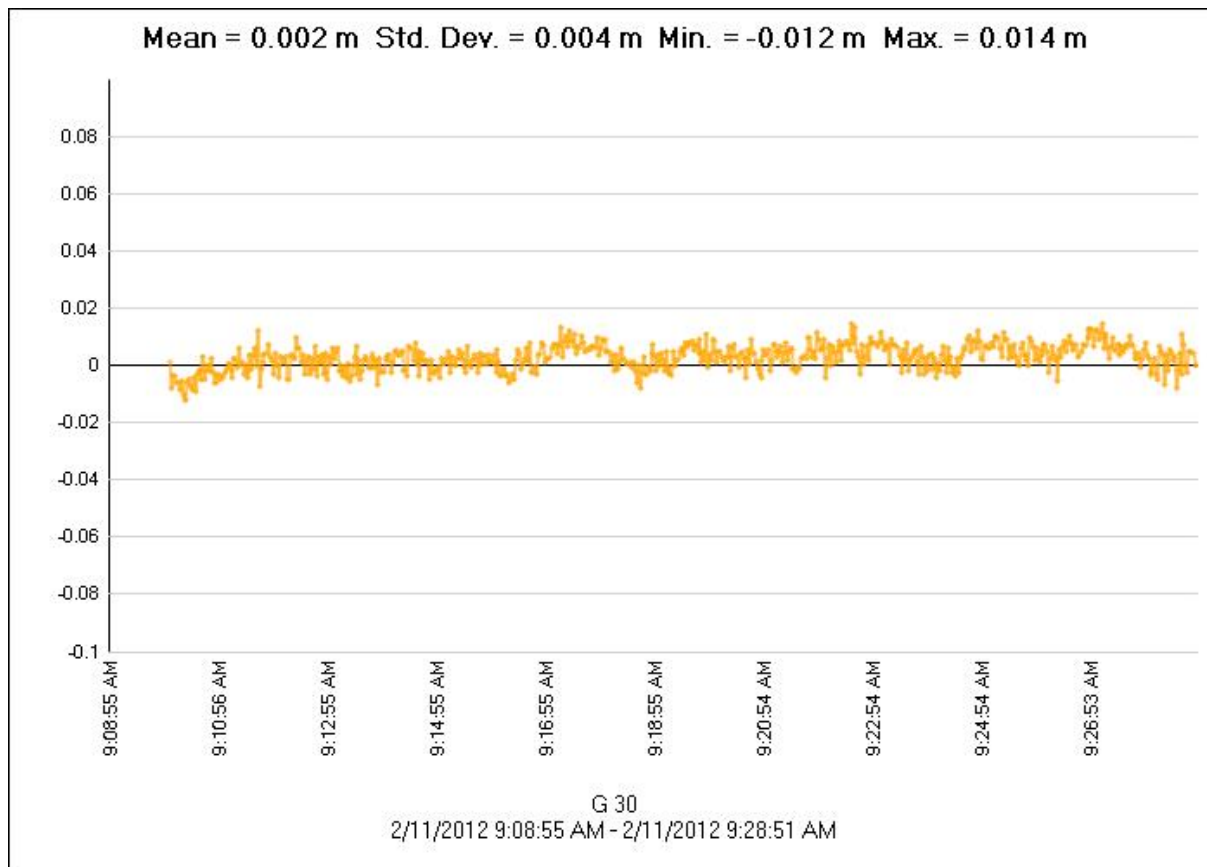


G 25
2/11/2012 9:08:55 AM - 2/11/2012 9:28:51 AM

Mean = 0.000 m Std. Dev. = 0.001 m Min. = -0.002 m Max. = 0.003 m



G 29
2/11/2012 9:08:55 AM - 2/11/2012 9:28:51 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: JH0456 --- FVA08-B2 (B117)

Processed: 3/21/2012 1:39:11 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.012 m

Vertical precision: 0.013 m

RMS: 0.003 m

Maximum PDOP: 2.496

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 1:22:54 PM (Local: UTC-7hr)

Processing stop time: 2/12/2012 1:42:54 PM (Local: UTC-7hr)

Processing duration: 00:20:00

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	FVA08-B2				
Grid		Local		Global	
Easting	328614.307 m	Latitude	N38°19'19.41843"	Latitude	N38°19'19.41842"
Northing	4243367.955 m	Longitude	W100°57'38.07651"	Longitude	W100°57'38.07651"
Elevation	911.957 m	Height	887.173 m	Height	887.173 m

Vector					
9Ughb[	-6648.540 m	NS Fwd Azimuth	199°47'47"	L	-8230.838 m
BcfA\jb[	-17347.341 m	Ellipsoid Dist.	18578.732 m	M	-9473.520 m
9`Yj UHcb	0.319 m	<Y][\h	0.452 m	N	-13702.956 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.003 m
Bcfh\]b[	0.005 m	'9~]dgc]X'8]gh	0.005 m	M	0.007 m
'9`Yj Uhcb	0.007 m	' <Y][\h	0.007 m	N	0.005 m

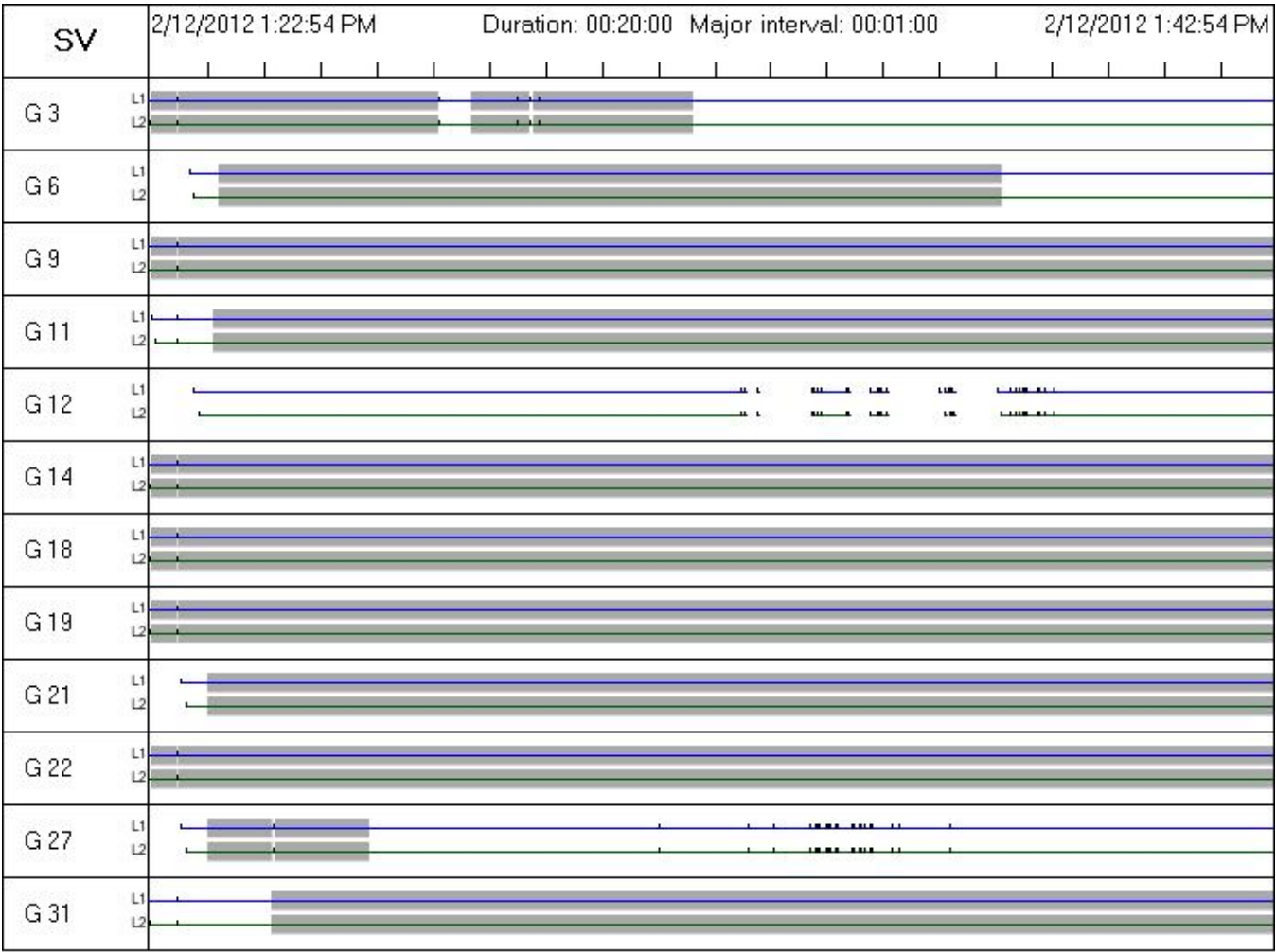
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000102191		
Y	0.0000017592	0.0000481161	
Z	-0.0000014102	-0.0000089997	0.0000243484

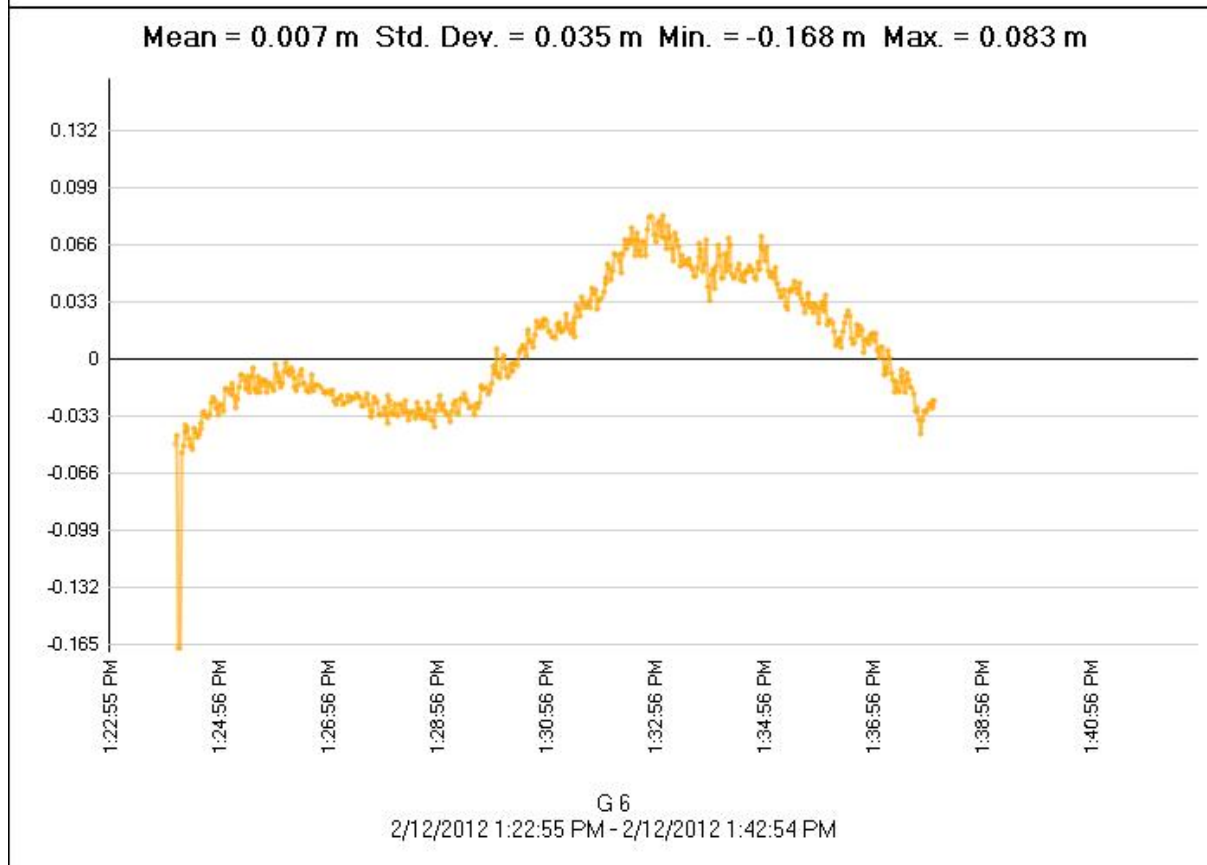
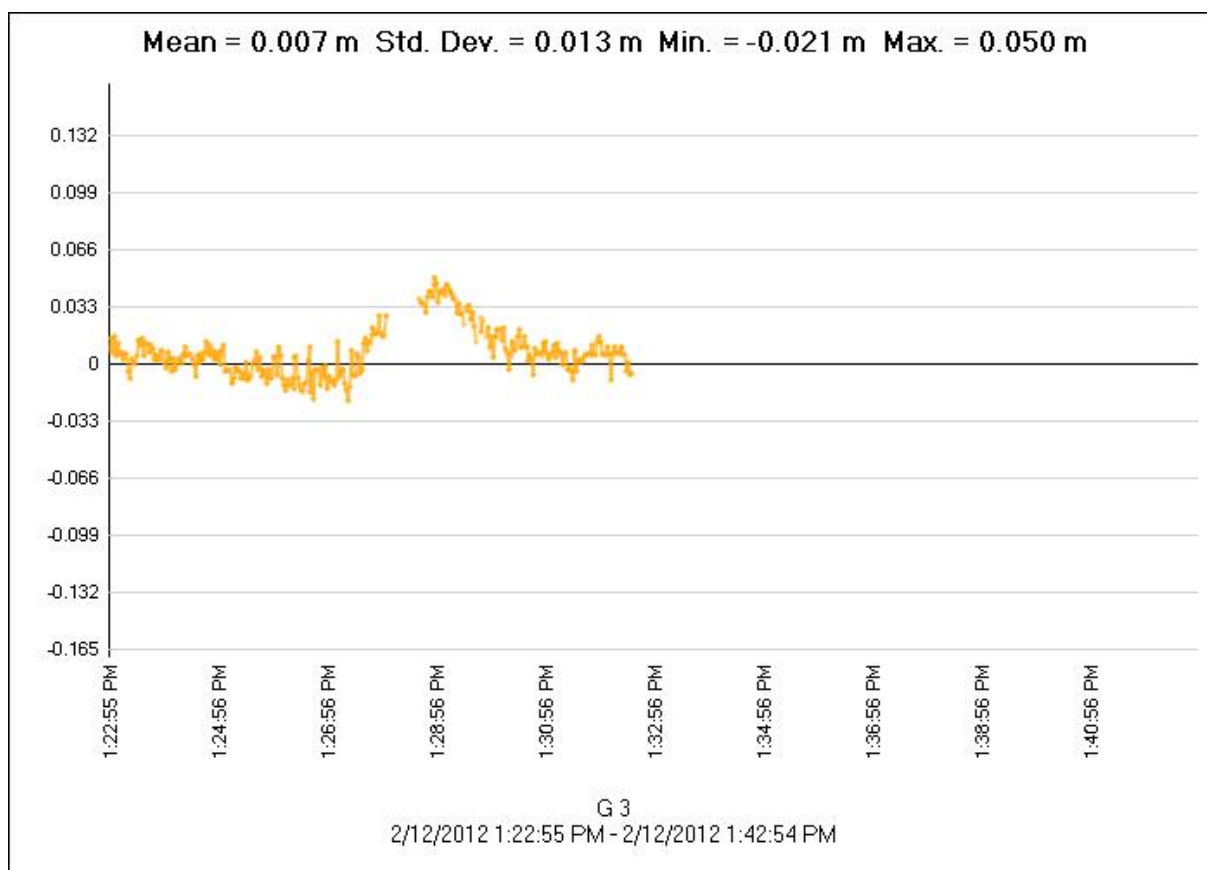
Occupations

	From	To
Point ID:	JH0456	FVA08-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010430.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00080433.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

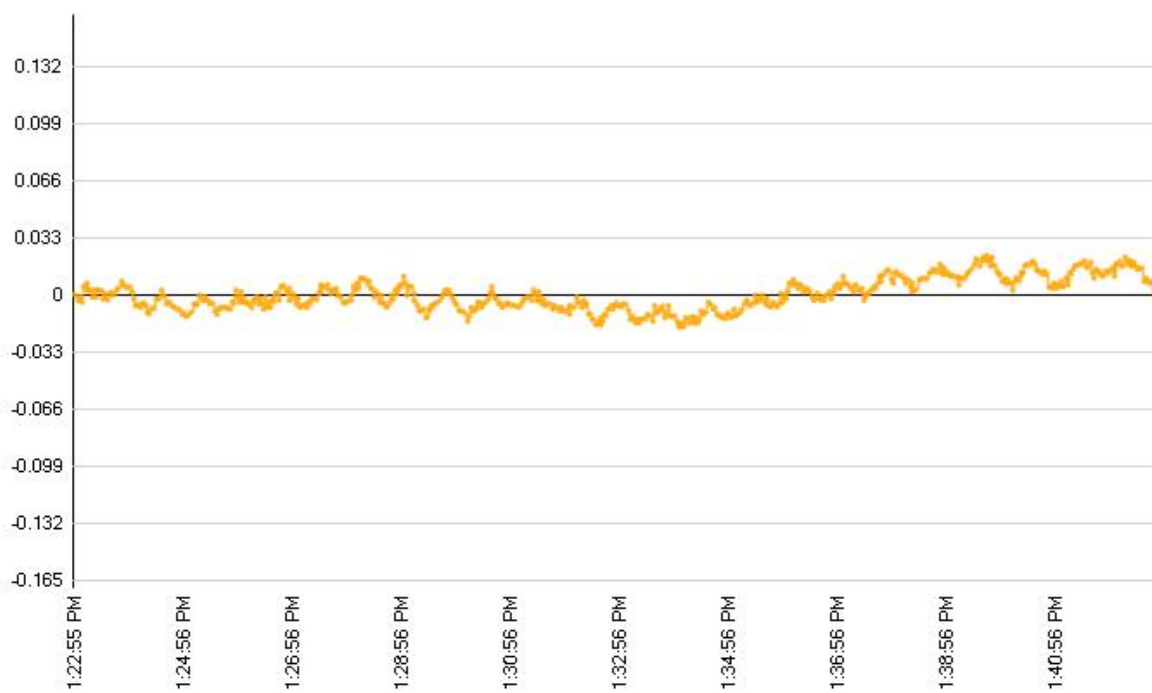
Tracking Summary



Residuals



Mean = 0.001 m Std. Dev. = 0.009 m Min. = -0.018 m Max. = 0.023 m



G 9

2/12/2012 1:22:55 PM - 2/12/2012 1:42:54 PM

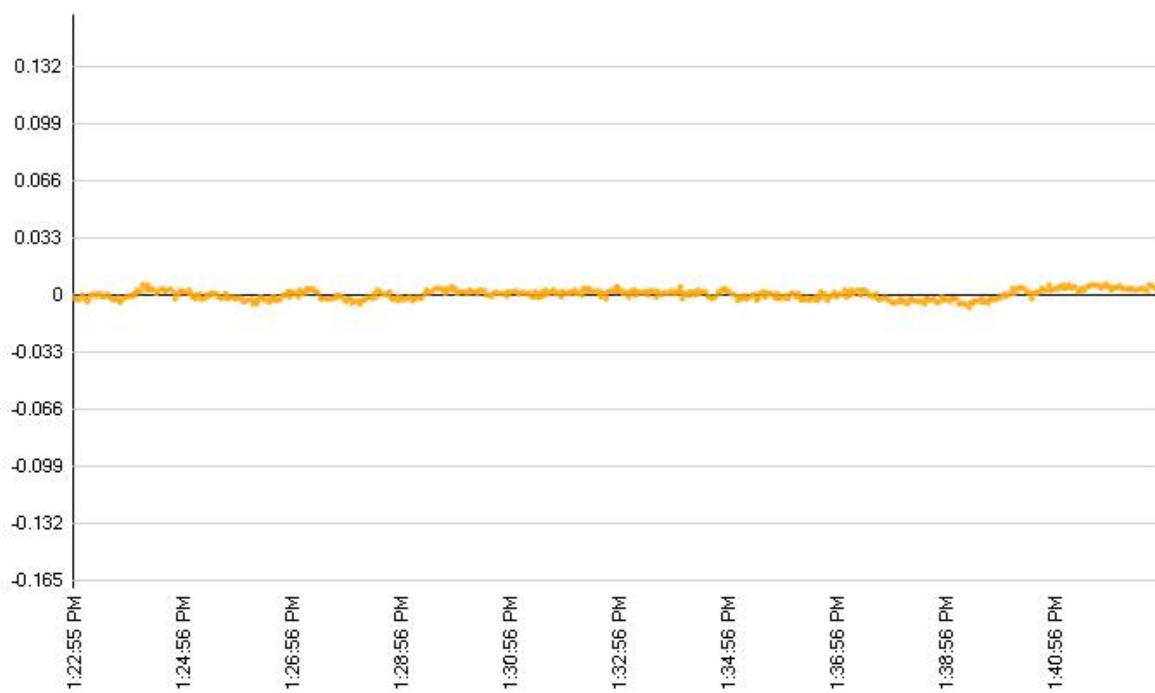
Mean = 0.005 m Std. Dev. = 0.022 m Min. = -0.040 m Max. = 0.071 m



G 11

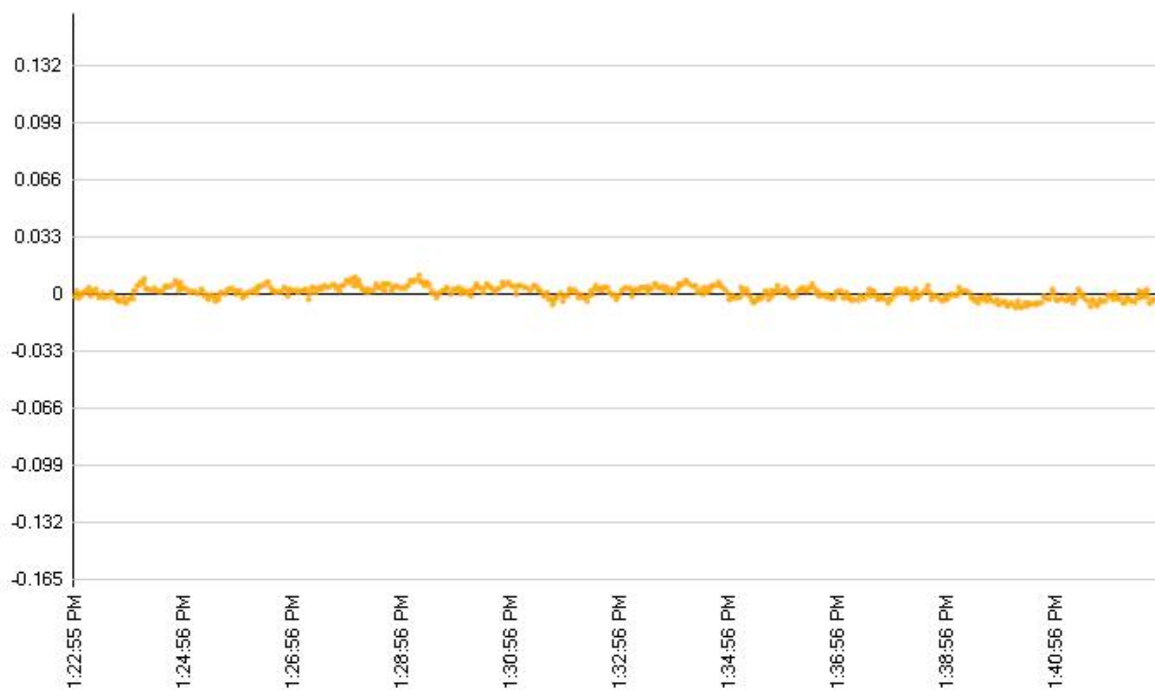
2/12/2012 1:22:55 PM - 2/12/2012 1:42:54 PM

Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.007 m Max. = 0.007 m

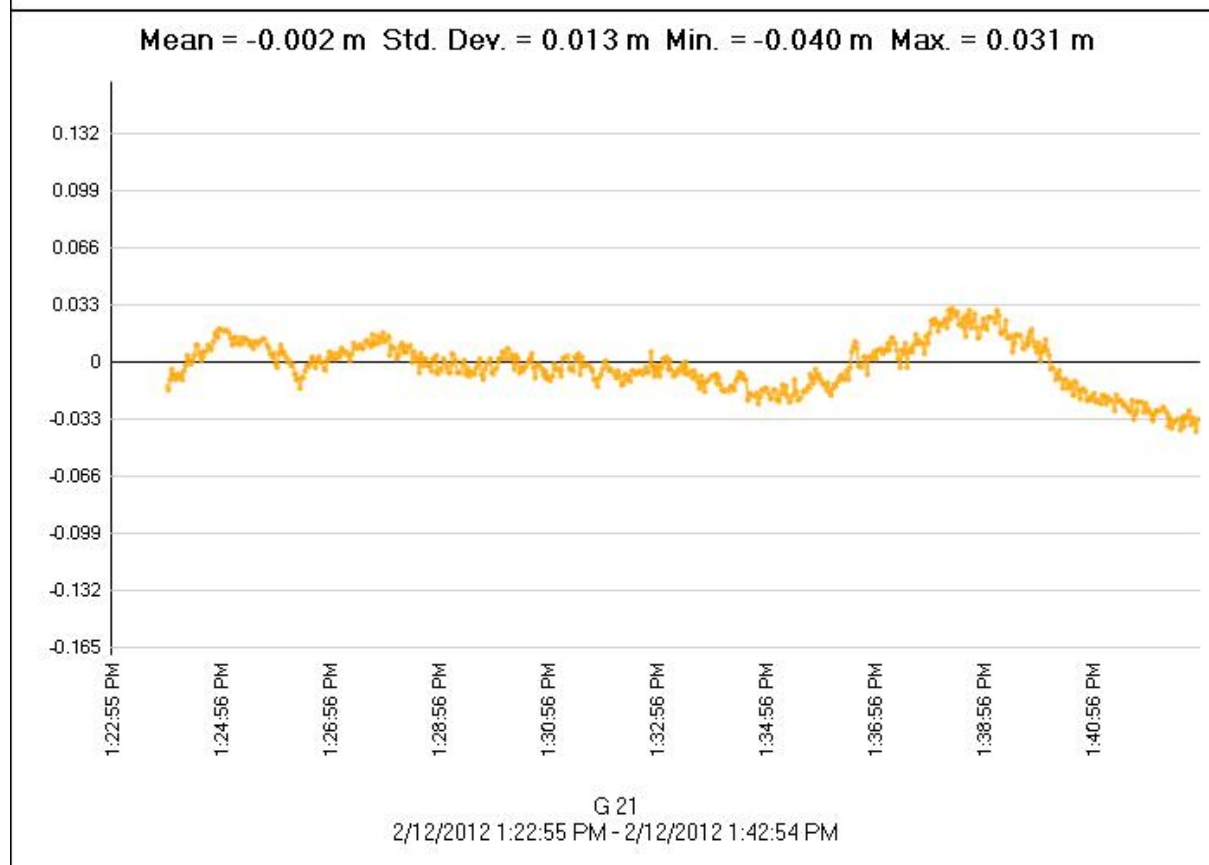
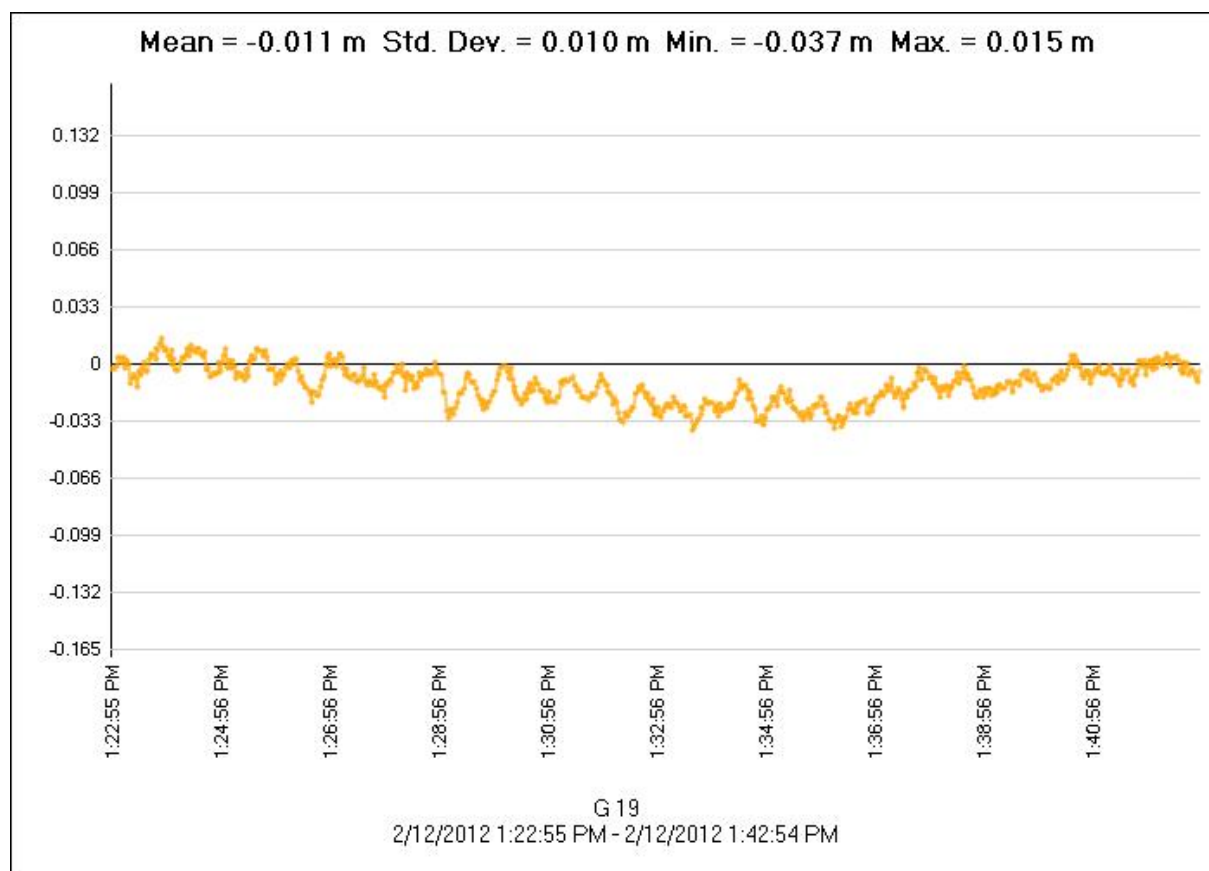


G 14
2/12/2012 1:22:55 PM - 2/12/2012 1:42:54 PM

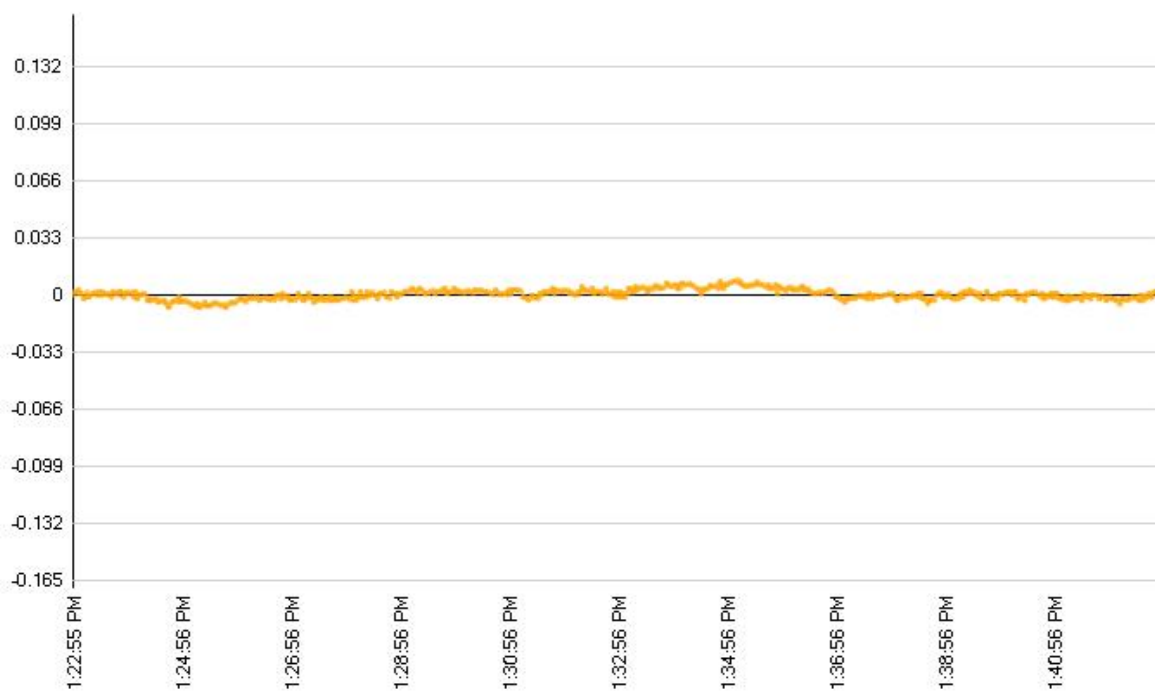
Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.008 m Max. = 0.011 m



G 18
2/12/2012 1:22:55 PM - 2/12/2012 1:42:54 PM

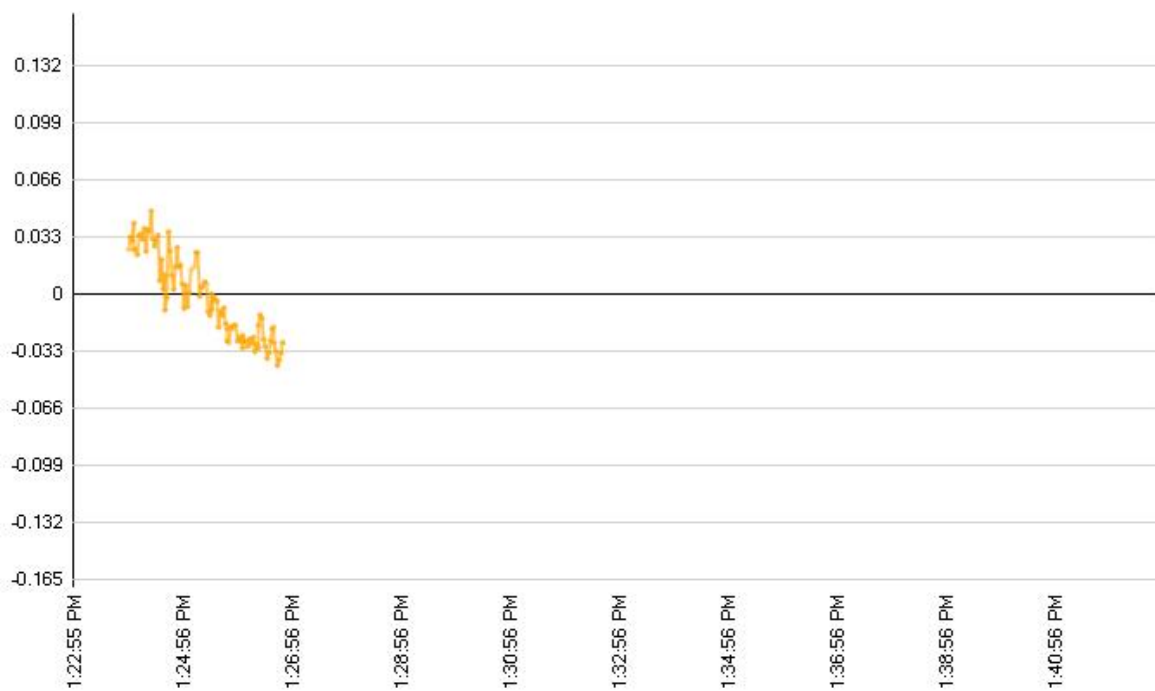


Mean = 0.000 m Std. Dev. = 0.003 m Min. = -0.007 m Max. = 0.009 m

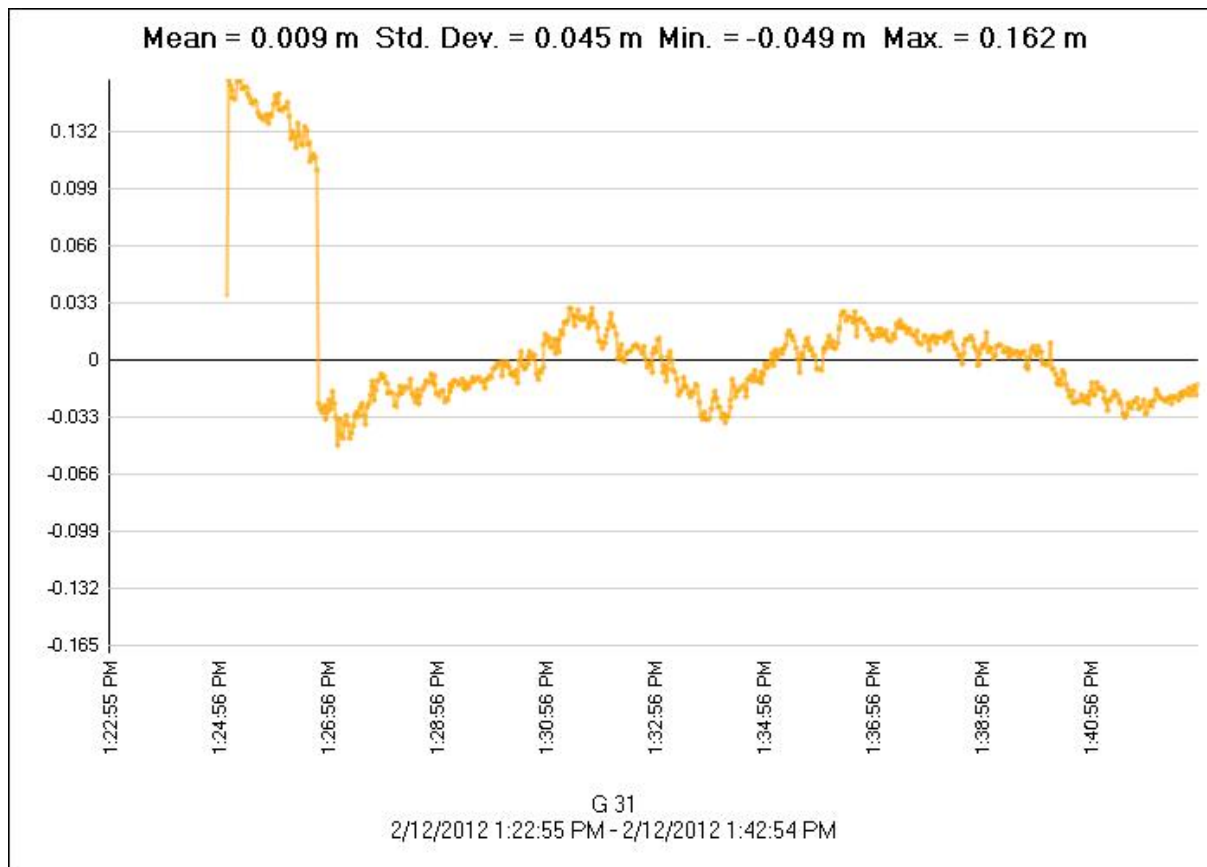


G 22
2/12/2012 1:22:55 PM - 2/12/2012 1:42:54 PM

Mean = -0.002 m Std. Dev. = 0.023 m Min. = -0.041 m Max. = 0.048 m



G 27
2/12/2012 1:22:55 PM - 2/12/2012 1:42:54 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA08-B2 (1:47:24 PM-2:06:51 PM) (S119)

Baseline observation: JH0456 --- SVA08-B2 (B119)

Processed: 3/21/2012 1:39:14 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.013 m

Vertical precision: 0.014 m

RMS: 0.003 m

Maximum PDOP: 1.875

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 1:47:24 PM (Local: UTC-7hr)

Processing stop time: 2/12/2012 2:06:51 PM (Local: UTC-7hr)

Processing duration: 00:19:27

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA08-B2				
Grid		Local		Global	
Easting	328562.549 m	Latitude	N38°19'17.84862"	Latitude	N38°19'17.84862"
Northing	4243320.641 m	Longitude	W100°57'40.16552"	Longitude	W100°57'40.16552"
Elevation	912.248 m	Height	887.464 m	Height	887.464 m

Vector					
9Ughb[	-6700.298 m	NS Fwd Azimuth	199°53'35"	L	-8286.414 m
Bcfh\jb[	-17394.654 m	Ellipsoid Dist.	18641.463 m	M	-9493.565 m
9`Yj Ufcb	0.610 m	<Y][\h	0.743 m	N	-13740.755 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point ID	0°00'00"	Point ID	0.004 m
Point ID	0.005 m	Point ID	0.005 m	Point ID	0.007 m
Point ID	0.007 m	Point ID	0.007 m	Point ID	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000159503		
Y	0.0000033855	0.0000477447	
Z	0.0000021364	-0.0000097793	0.0000305776

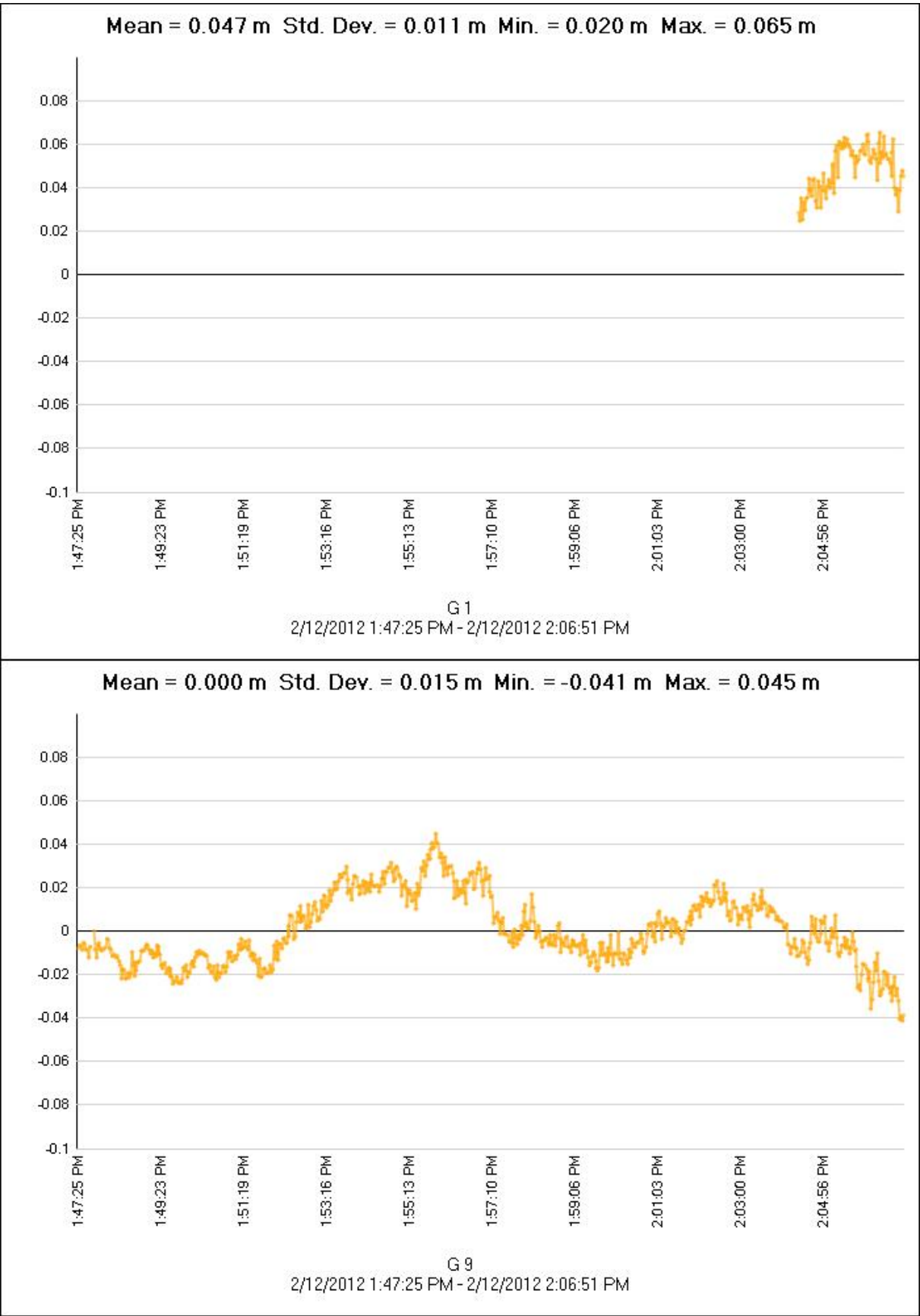
Occupations

	From	To
Point ID:	JH0456	SVA08-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010430.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080434.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

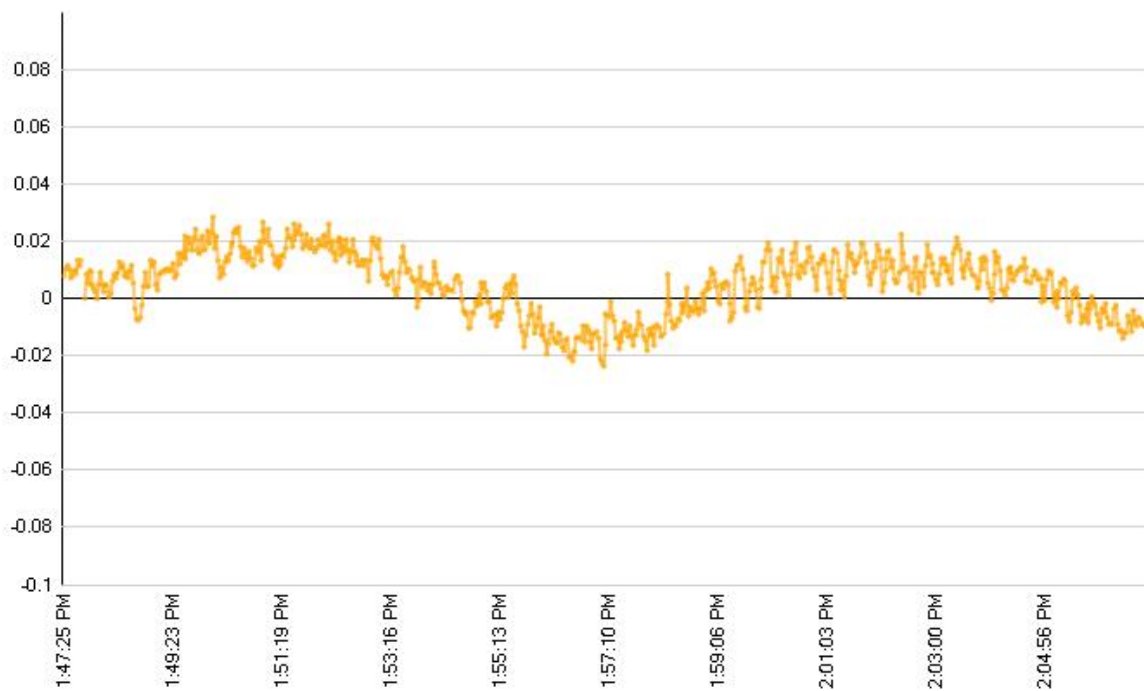
Tracking Summary

SV		2/12/2012 1:47:24 PM	Duration: 00:19:27	Major interval: 00:01:00	2/12/2012 2:06:51 PM
G 1	L1				
	L2				
G 3	L1				
	L2				
G 9	L1				
	L2				
G 11	L1				
	L2				
G 12	L1				
	L2				
G 14	L1				
	L2				
G 18	L1				
	L2				
G 19	L1				
	L2				
G 21	L1				
	L2				
G 22	L1				
	L2				
G 27	L1				
	L2				
G 31	L1				
	L2				
G 32	L1				
	L2				

Residuals

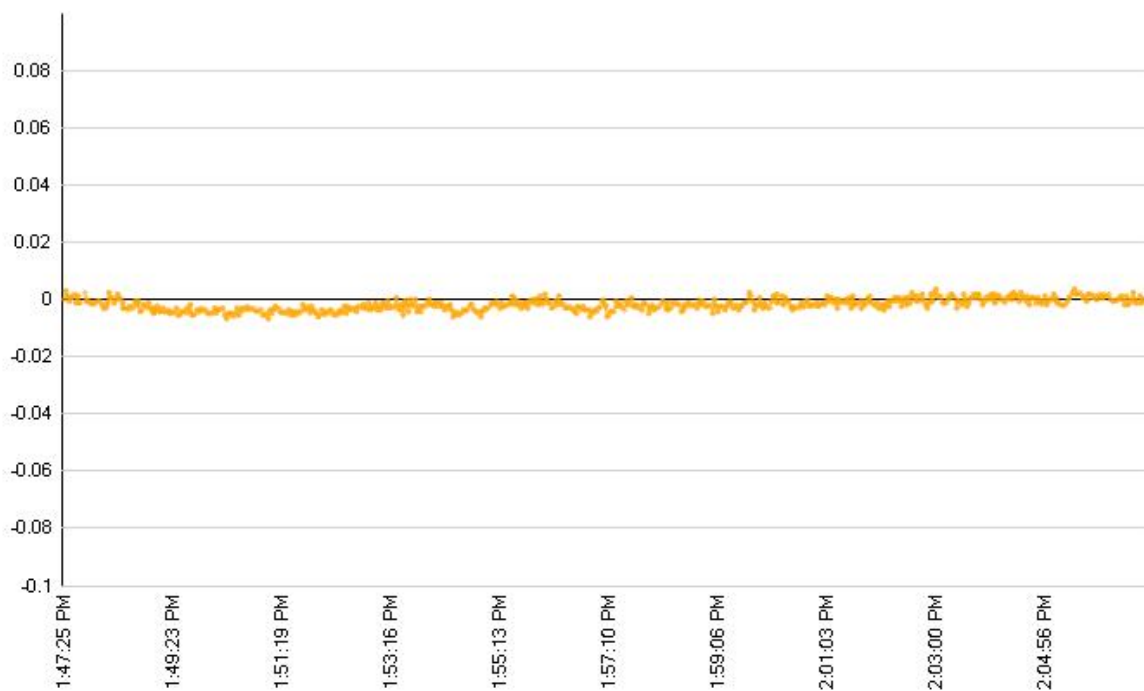


Mean = 0.005 m Std. Dev. = 0.010 m Min. = -0.024 m Max. = 0.028 m



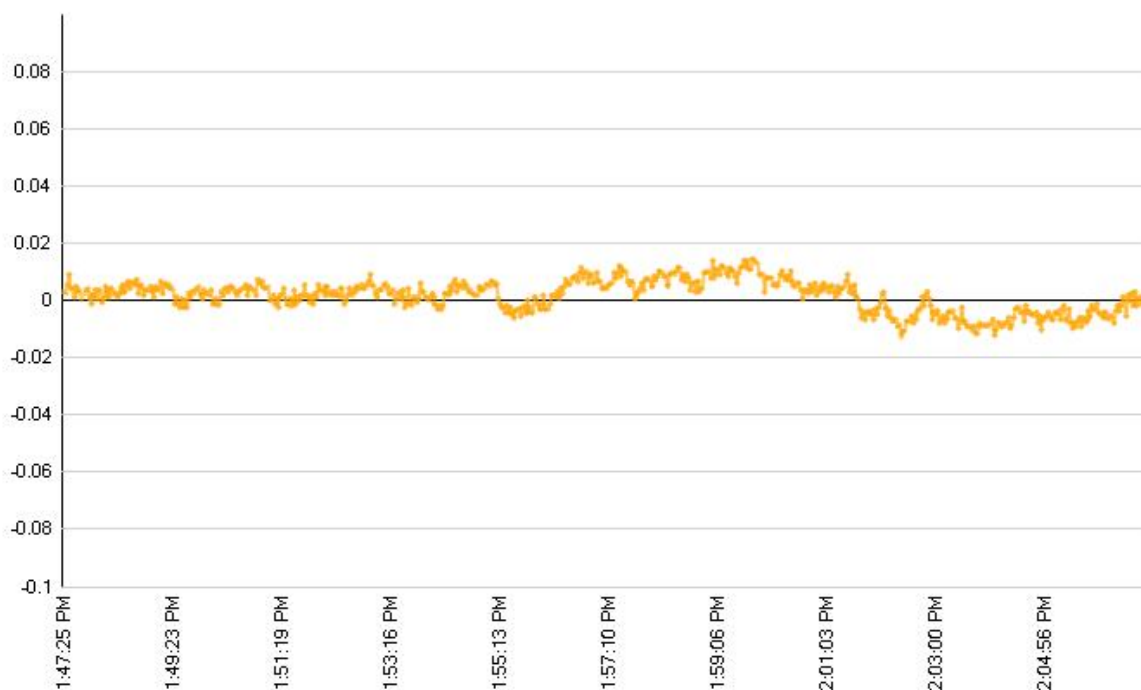
G 11
2/12/2012 1:47:25 PM - 2/12/2012 2:06:51 PM

Mean = -0.002 m Std. Dev. = 0.002 m Min. = -0.007 m Max. = 0.004 m



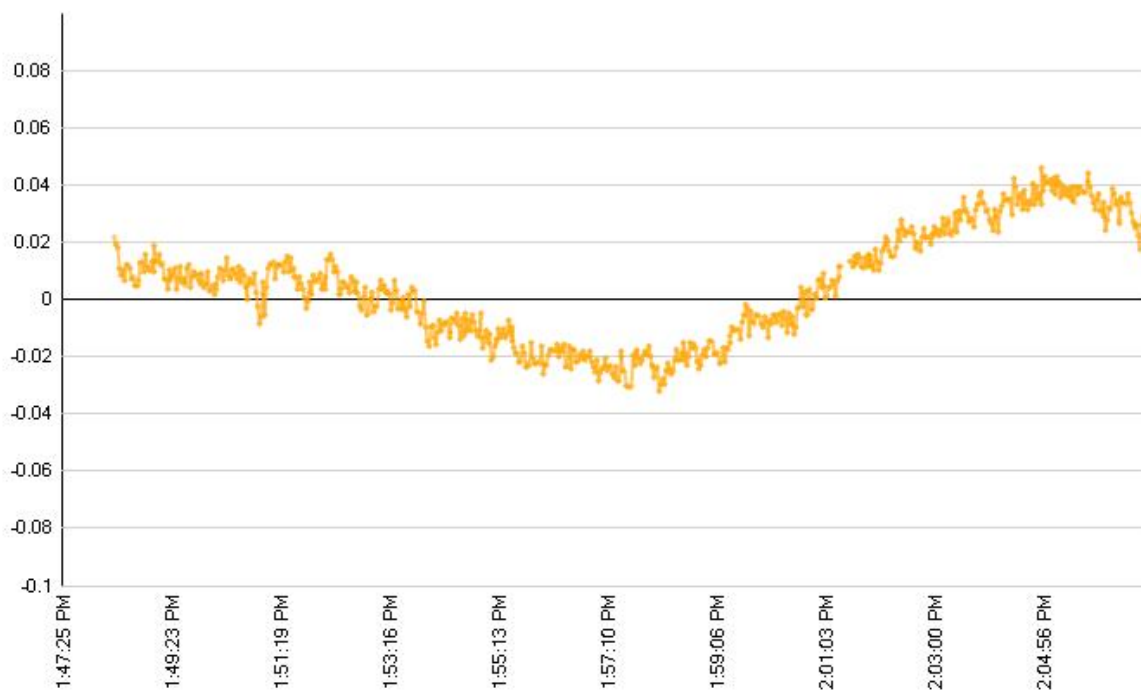
G 14
2/12/2012 1:47:25 PM - 2/12/2012 2:06:51 PM

Mean = 0.001 m Std. Dev. = 0.005 m Min. = -0.013 m Max. = 0.015 m



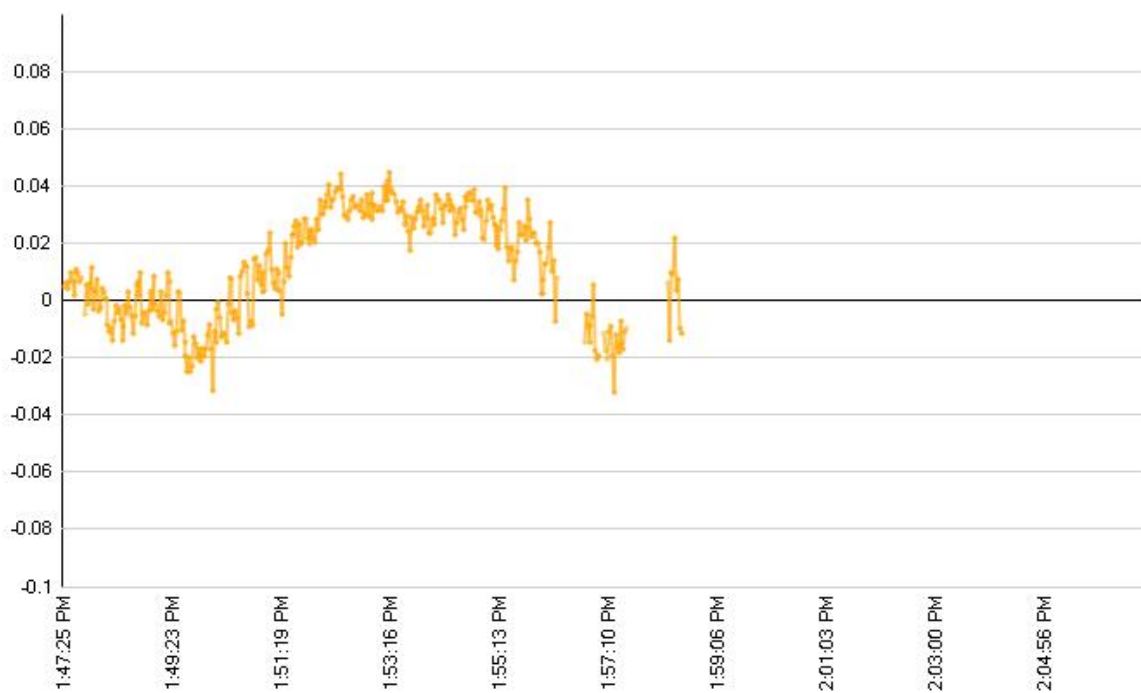
G 18
2/12/2012 1:47:25 PM - 2/12/2012 2:06:51 PM

Mean = 0.004 m Std. Dev. = 0.019 m Min. = -0.032 m Max. = 0.046 m



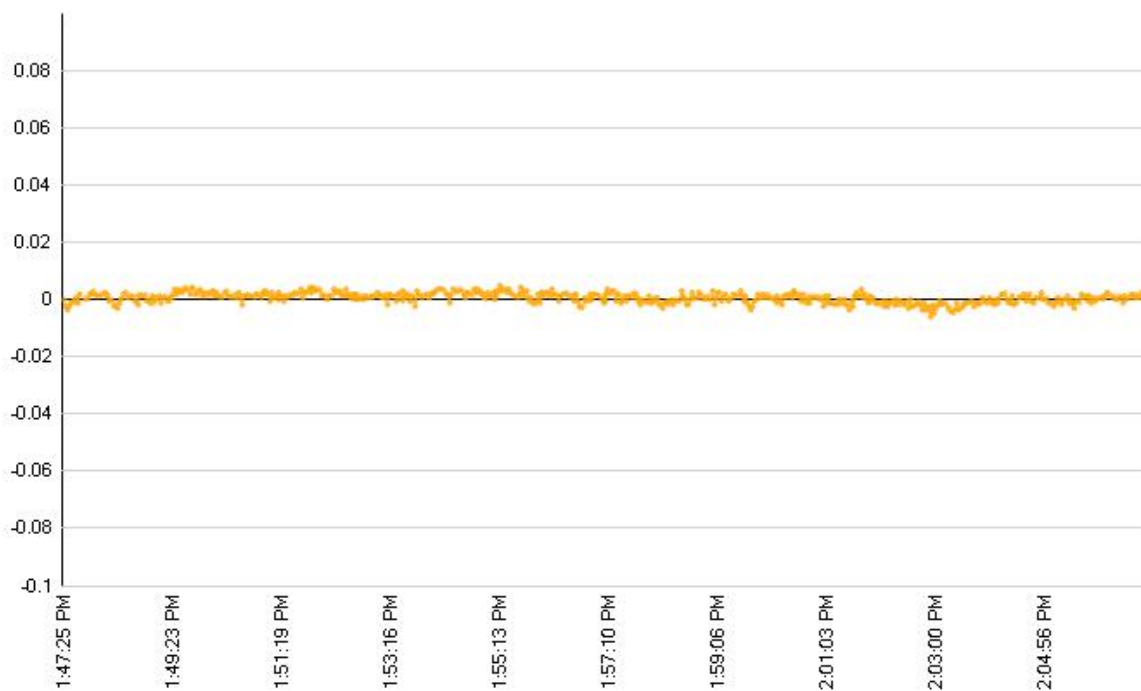
G 19
2/12/2012 1:47:25 PM - 2/12/2012 2:06:51 PM

Mean = 0.012 m Std. Dev. = 0.017 m Min. = -0.032 m Max. = 0.045 m

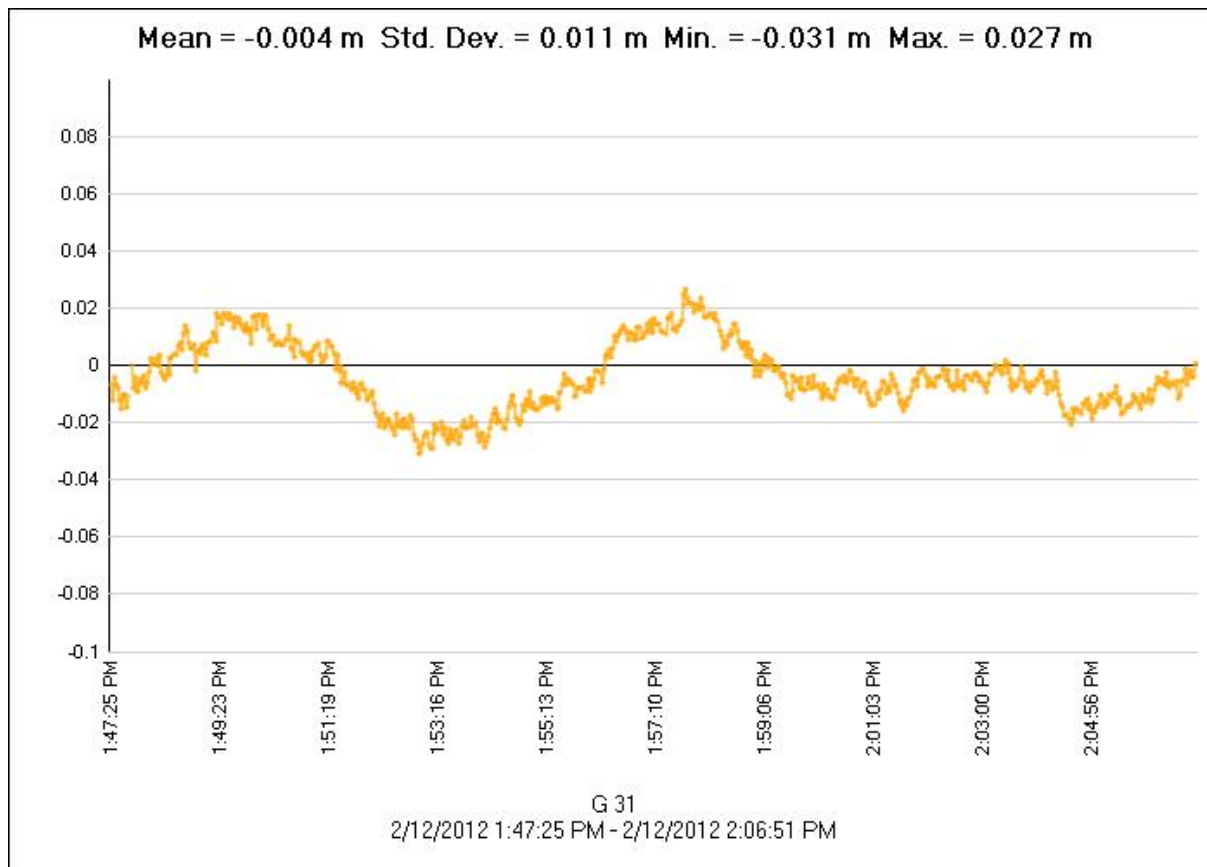


G 21
2/12/2012 1:47:25 PM - 2/12/2012 2:06:51 PM

Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.005 m



G 22
2/12/2012 1:47:25 PM - 2/12/2012 2:06:51 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA07-B2 (2:52:24 PM-3:11:30 PM) (S121)

Baseline observation: JH0456 --- FVA07-B2 (B121)

Processed: 3/21/2012 1:39:16 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.009 m

Vertical precision: 0.016 m

RMS: 0.002 m

Maximum PDOP: 2.445

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 2:52:24 PM (Local: UTC-7hr)

Processing stop time: 2/12/2012 3:11:30 PM (Local: UTC-7hr)

Processing duration: 00:19:05

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	FVA07-B2				
Grid		Local		Global	
Easting	312477.629 m	Latitude	N38°17'35.91209"	Latitude	N38°17'35.91209"
Northing	4240534.142 m	Longitude	W101°08'39.50505"	Longitude	W101°08'39.50505"
Elevation	968.956 m	Height	944.441 m	Height	944.441 m

Vector					
9Ughb[	-22785.219 m	NS Fwd Azimuth	227°17'43"	L	-24392.782 m
Bcfh\jb[	-20181.153 m	Ellipsoid Dist.	30438.092 m	M	-8378.432 m
9Yj Uhcb	57.318 m	<Y][\h	57.720 m	N	-16172.175 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Name	0°00'00"	Point Type	0.004 m
Point ID	0.004 m	Point Name	0.004 m	Point Type	0.006 m
Point ID	0.008 m	Point Name	0.008 m	Point Type	0.006 m

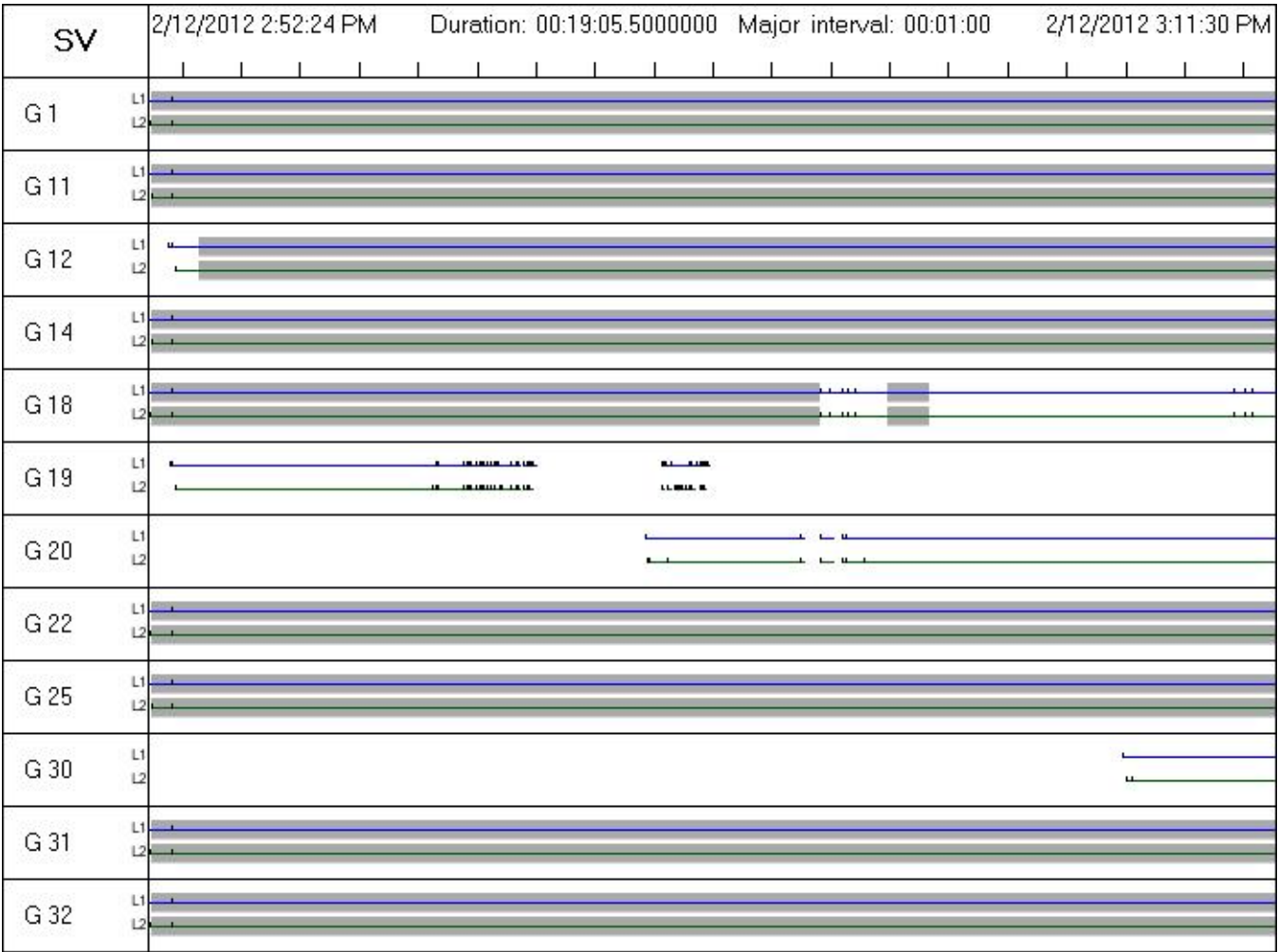
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000128843		
Y	0.0000121696	0.0000345237	
Z	-0.0000083481	-0.0000262317	0.0000404777

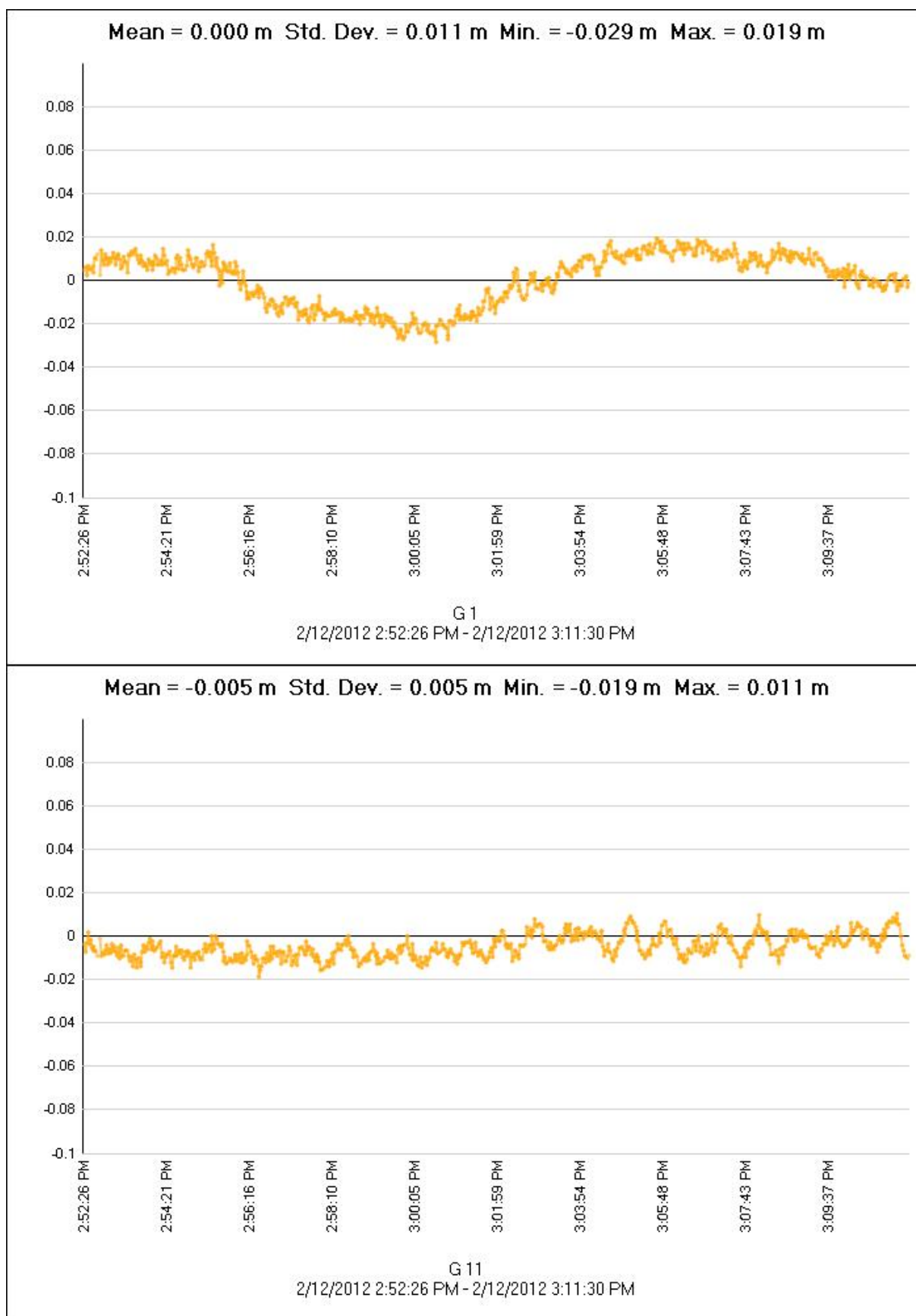
Occupations

	From	To
Point ID:	JH0456	FVA07-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010430.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080435.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

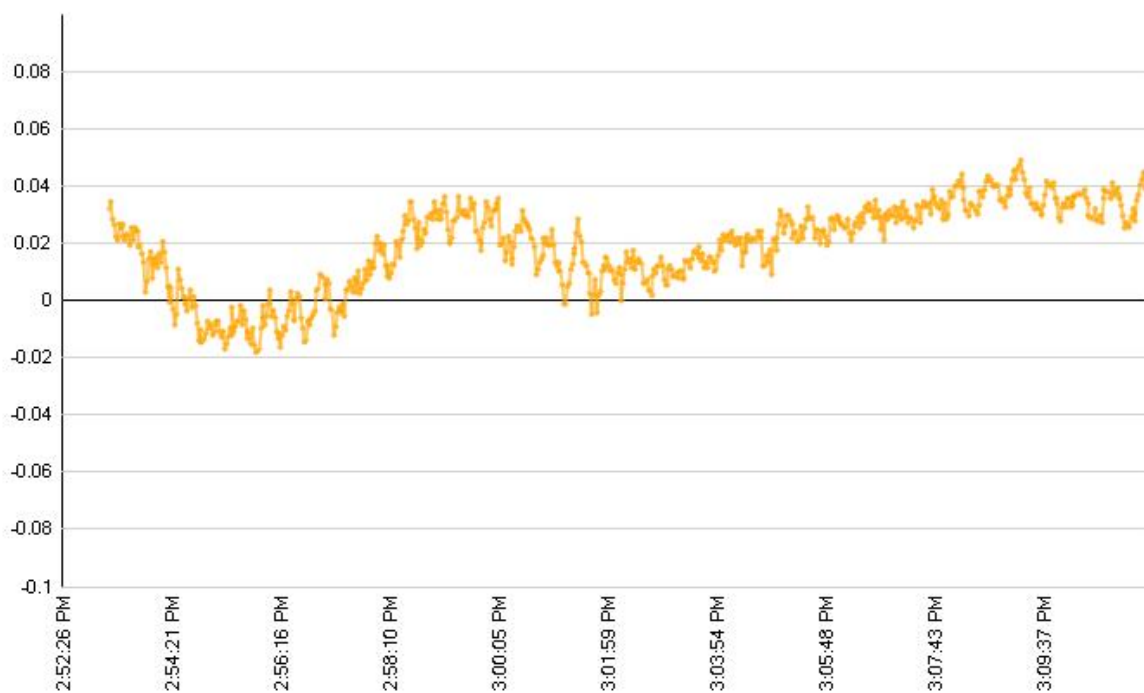
Tracking Summary



Residuals

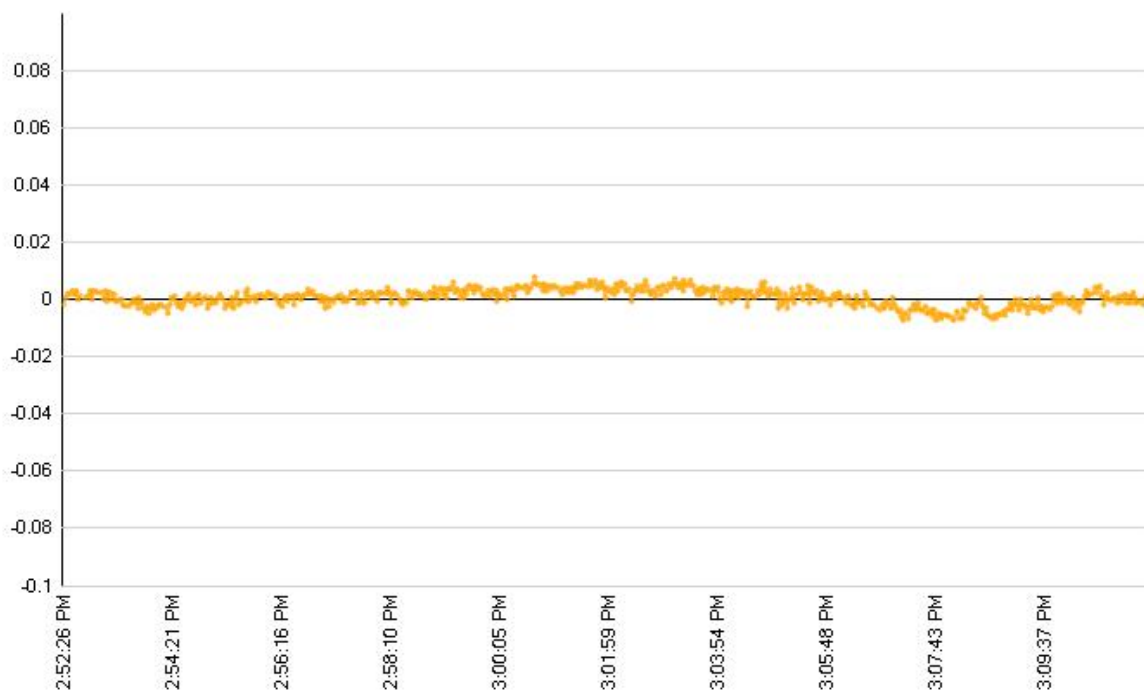


Mean = 0.018 m Std. Dev. = 0.015 m Min. = -0.018 m Max. = 0.049 m



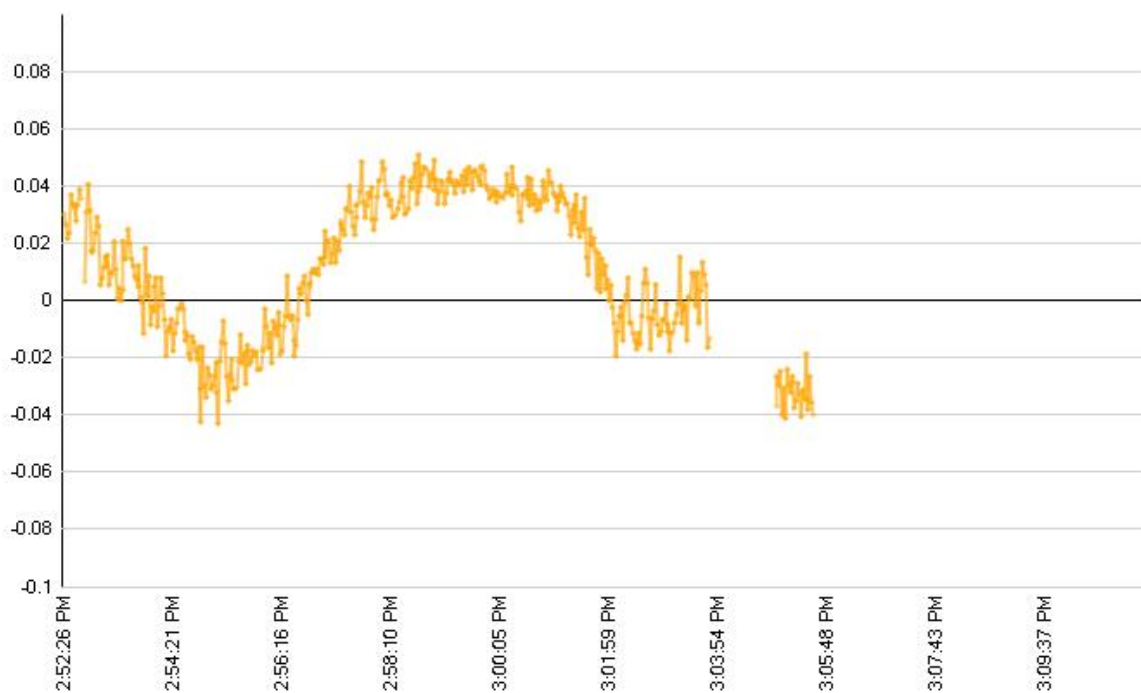
G 12
2/12/2012 2:52:26 PM - 2/12/2012 3:11:30 PM

Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.008 m Max. = 0.008 m



G 14
2/12/2012 2:52:26 PM - 2/12/2012 3:11:30 PM

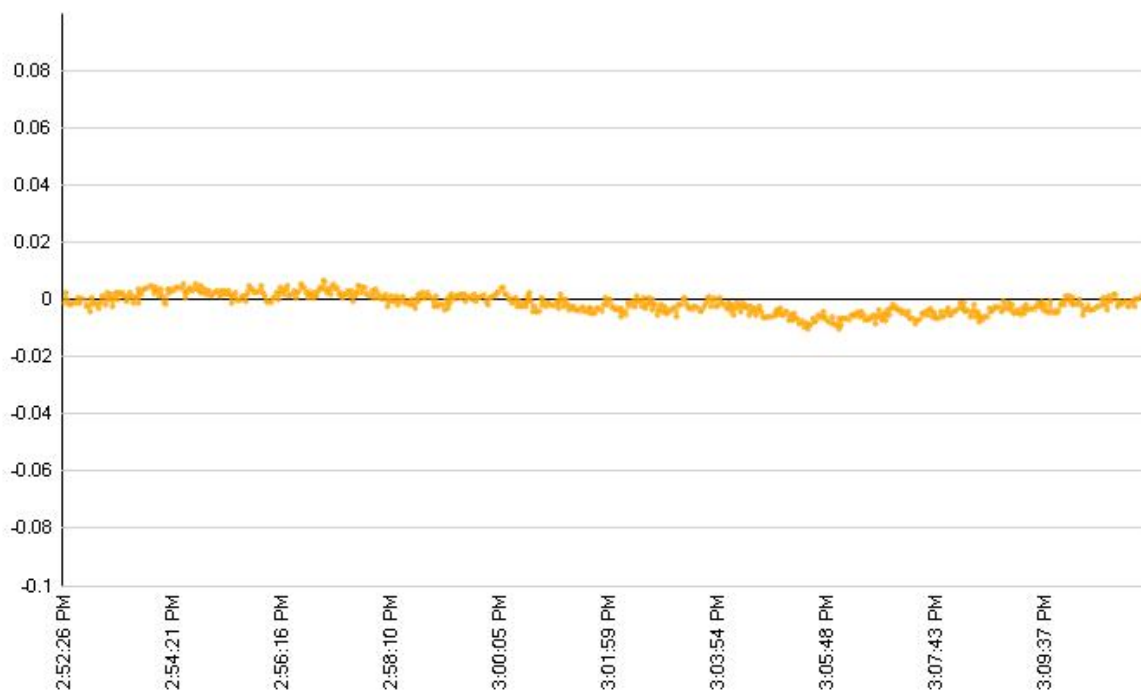
Mean = 0.011 m Std. Dev. = 0.024 m Min. = -0.043 m Max. = 0.051 m



G 18

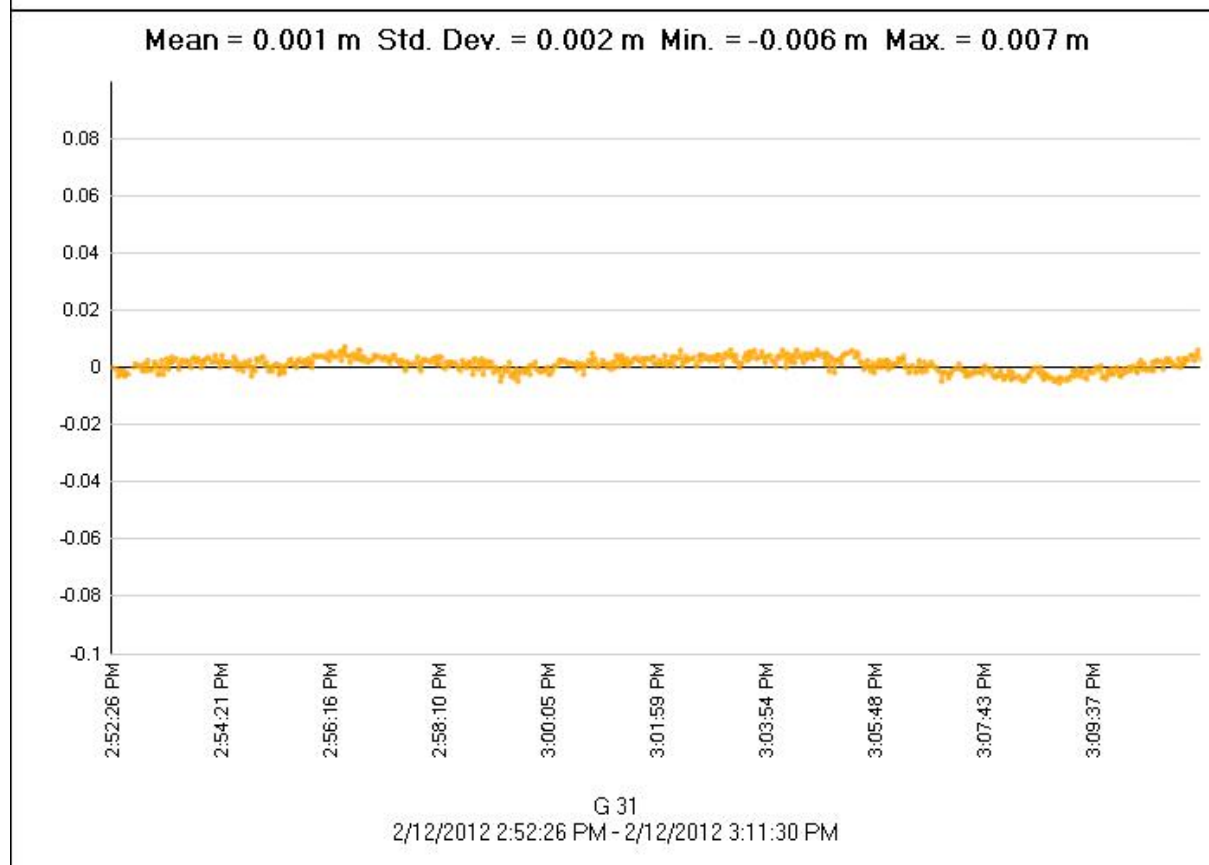
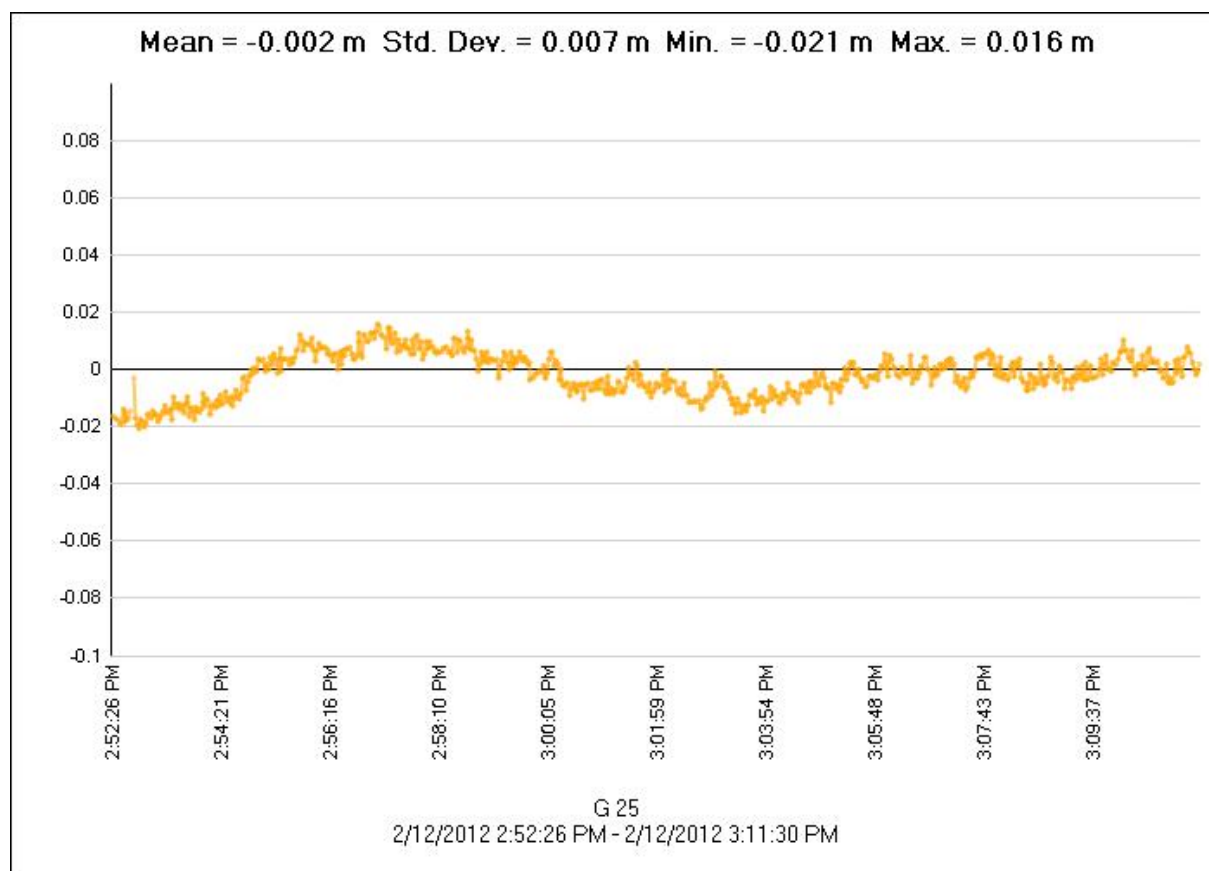
2/12/2012 2:52:26 PM - 2/12/2012 3:11:30 PM

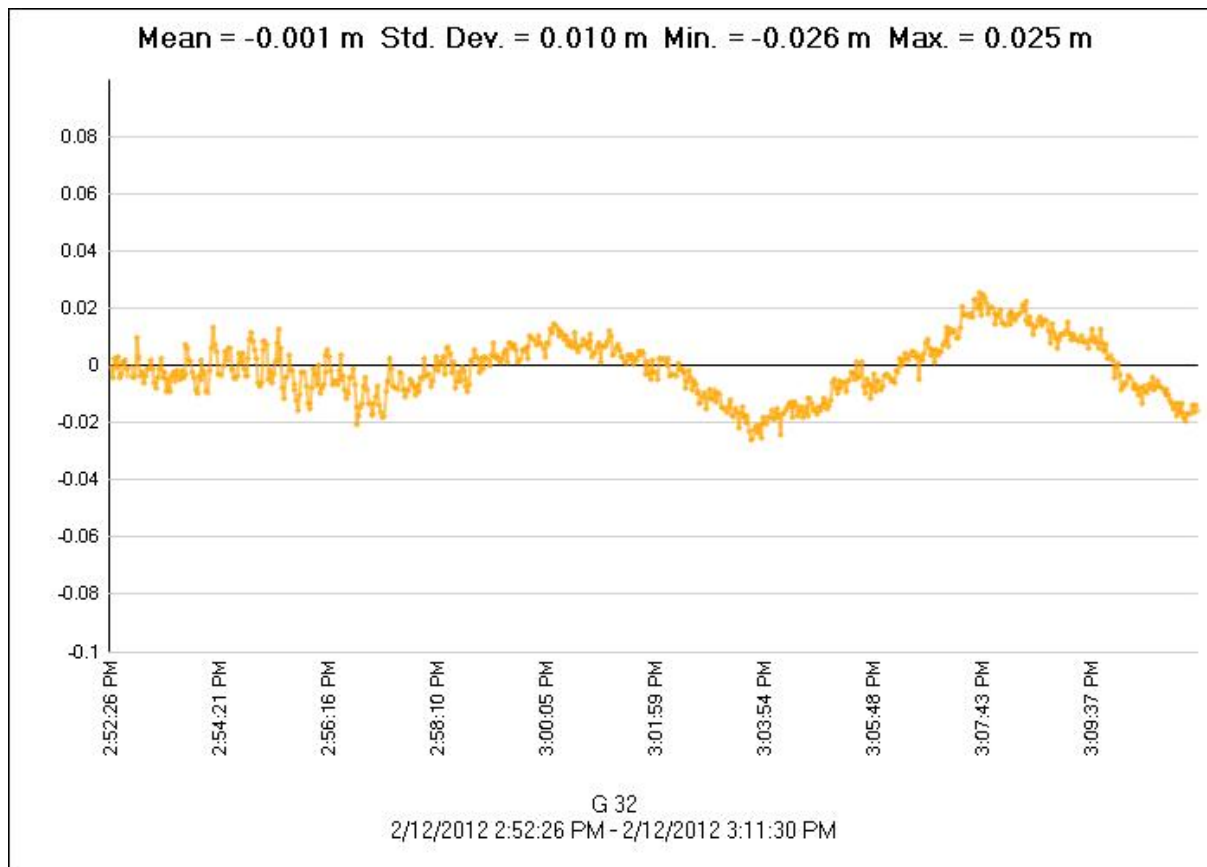
Mean = -0.001 m Std. Dev. = 0.003 m Min. = -0.010 m Max. = 0.006 m



G 22

2/12/2012 2:52:26 PM - 2/12/2012 3:11:30 PM







Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA07-B2 (3:16:15 PM-3:36:10 PM) (S123)

Baseline observation: JH0456 --- SVA07-B2 (B123)

Processed: 3/21/2012 1:39:17 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.016 m

RMS: 0.001 m

Maximum PDOP: 2.457

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 3:16:15 PM (Local: UTC-7hr)

Processing stop time: 2/12/2012 3:36:10 PM (Local: UTC-7hr)

Processing duration: 00:19:55

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA07-B2				
Grid		Local		Global	
Easting	312473.057 m	Latitude	N38°17'38.55998"	Latitude	N38°17'38.55997"
Northing	4240615.918 m	Longitude	W101°08'39.77118"	Longitude	W101°08'39.77118"
Elevation	967.941 m	Height	943.427 m	Height	943.427 m

Vector					
9Ughb[	-22789.790 m	NS Fwd Azimuth	227°24'59"	L	-24389.194 m
Bcfh\jb[	-20099.378 m	Ellipsoid Dist.	30387.361 m	M	-8326.754 m
9Yj Uhcb	56.303 m	<Y][\h	56.706 m	N	-16108.715 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.003 m	Point Type	0.006 m
Point ID	0.008 m	Point Description	0.008 m	Point Type	0.007 m





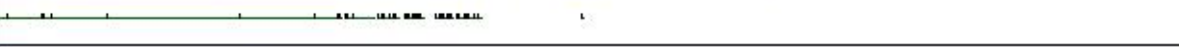


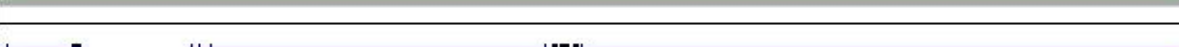



Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000088938		
Y	0.0000082353	0.0000311180	
Z	-0.0000059513	-0.0000264100	0.0000462172

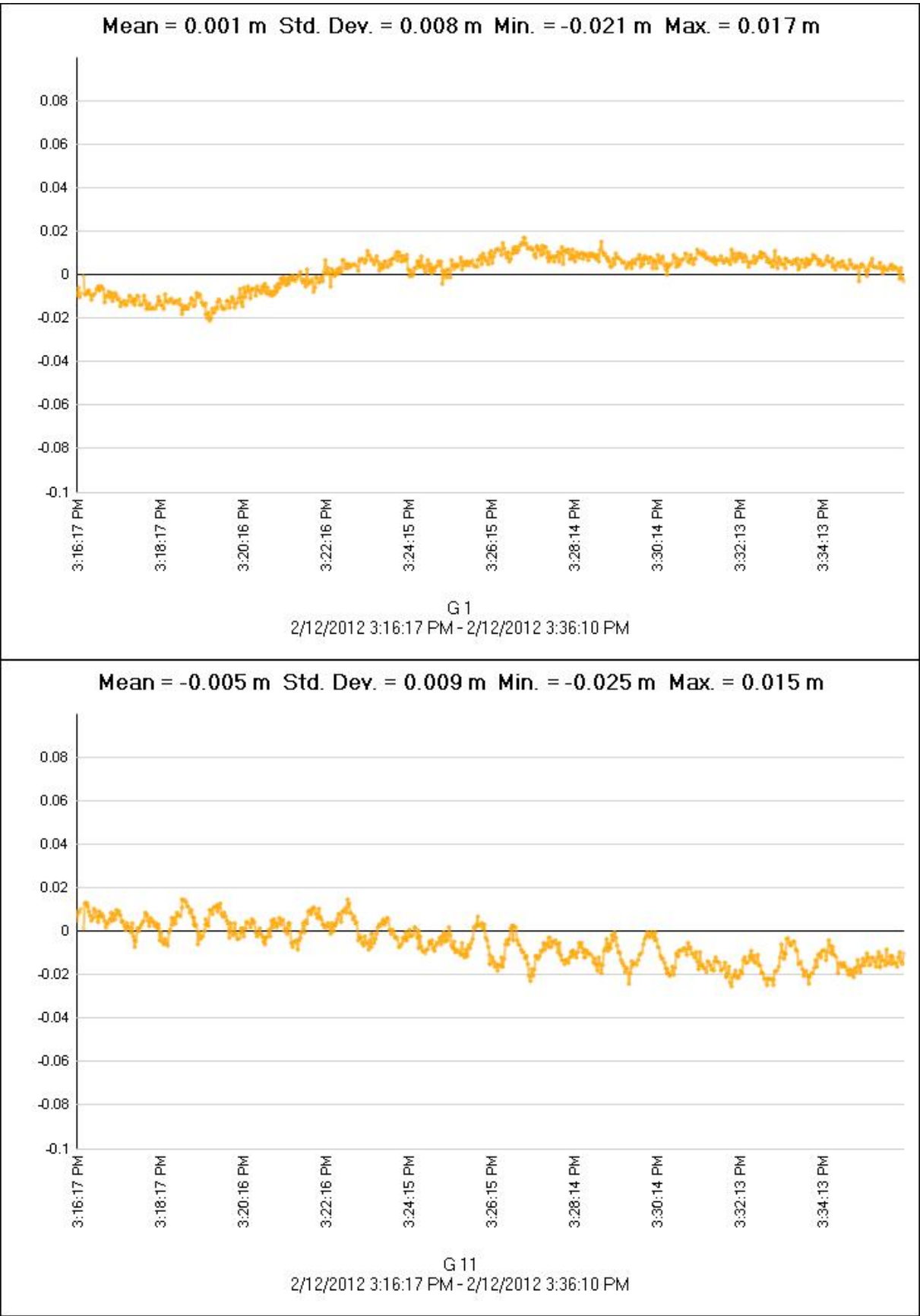
Occupations

	From	To
Point ID:	JH0456	SVA07-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010430.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080436.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

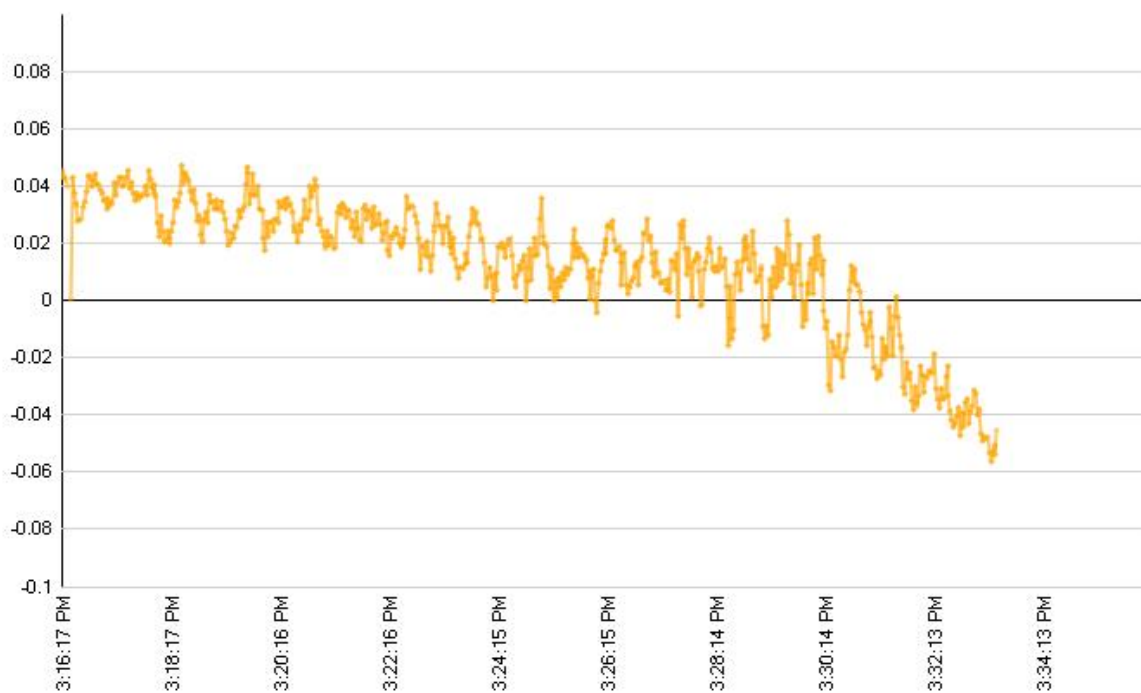
Tracking Summary

SV	2/12/2012 3:16:15 PM	Duration: 00:19:55 Major interval: 00:01:00	2/12/2012 3:36:10 PM
G 1			
G 11			
G 12			
G 14			
G 18			
G 20			
G 22			
G 25			
G 30			
G 31			
G 32			

Residuals

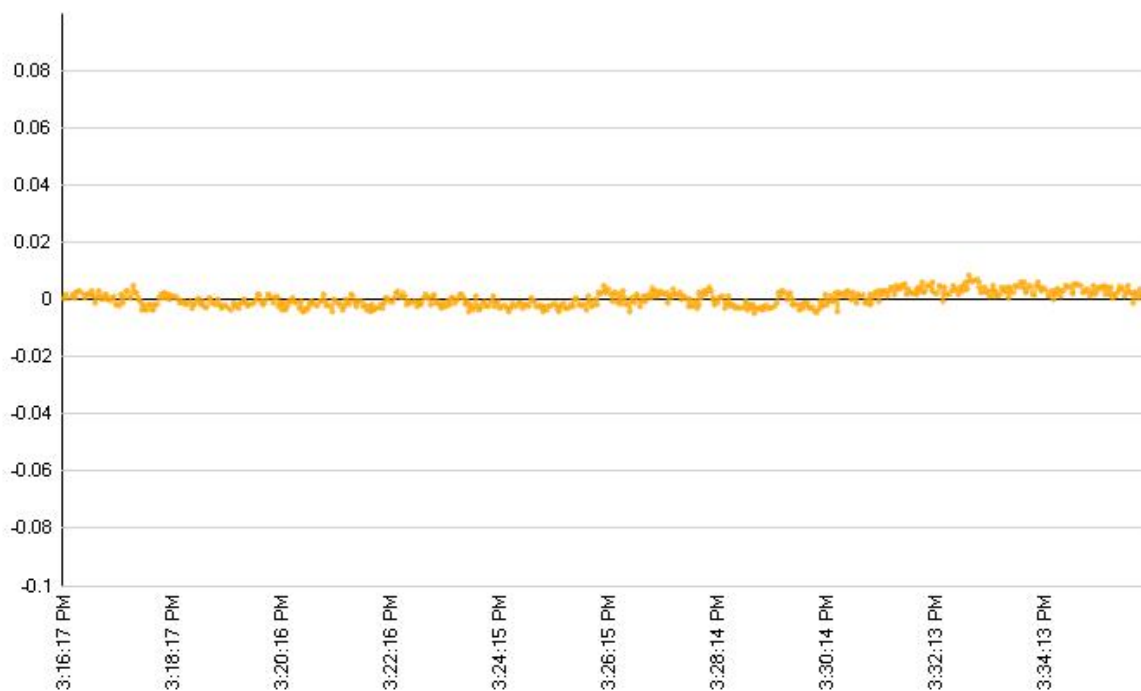


Mean = 0.012 m Std. Dev. = 0.021 m Min. = -0.056 m Max. = 0.047 m

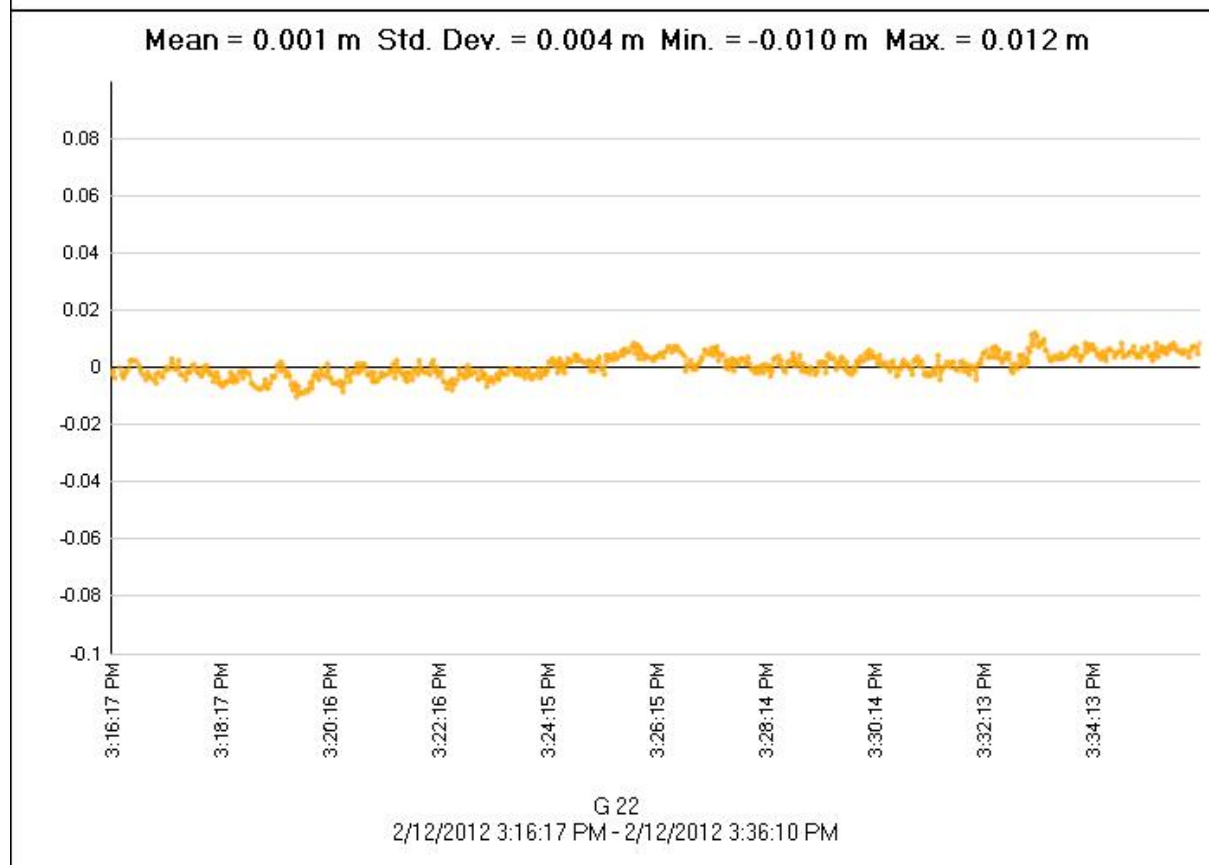
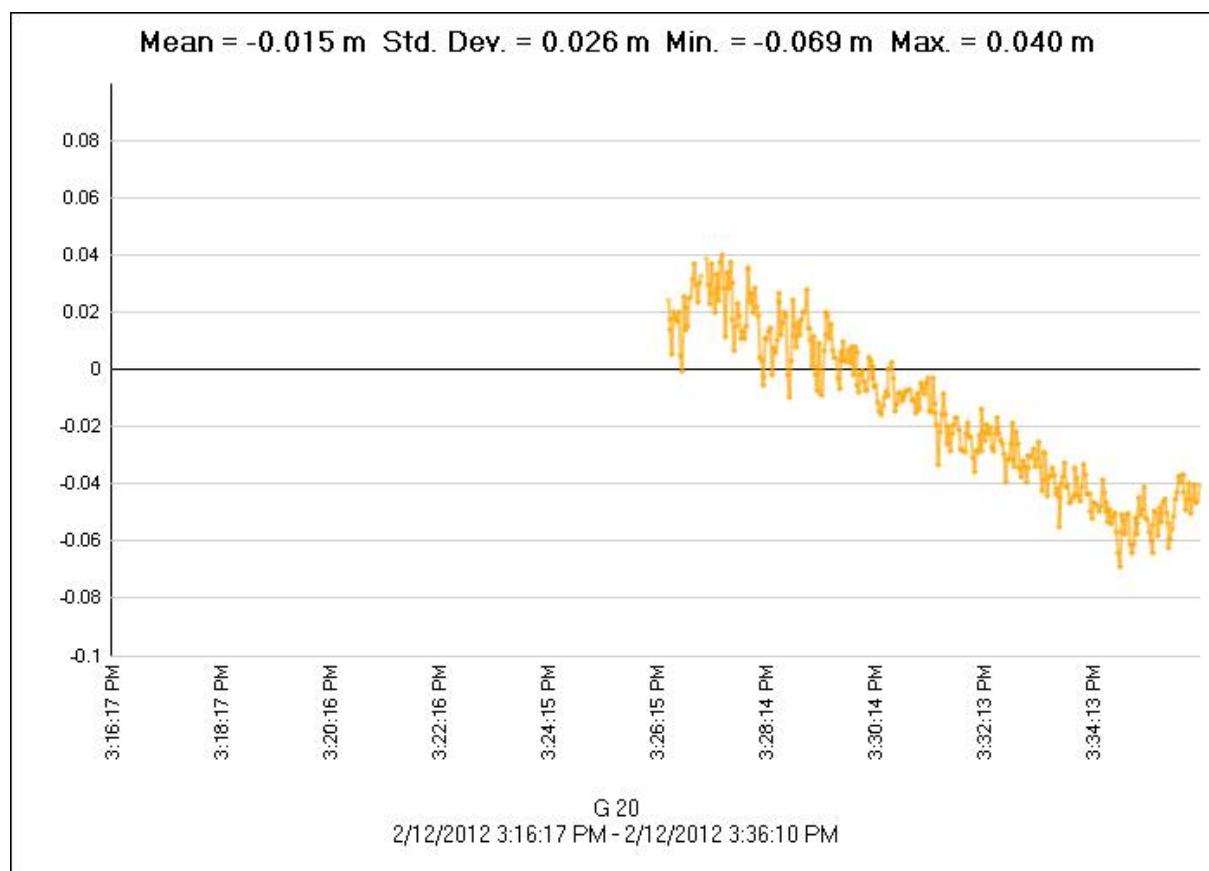


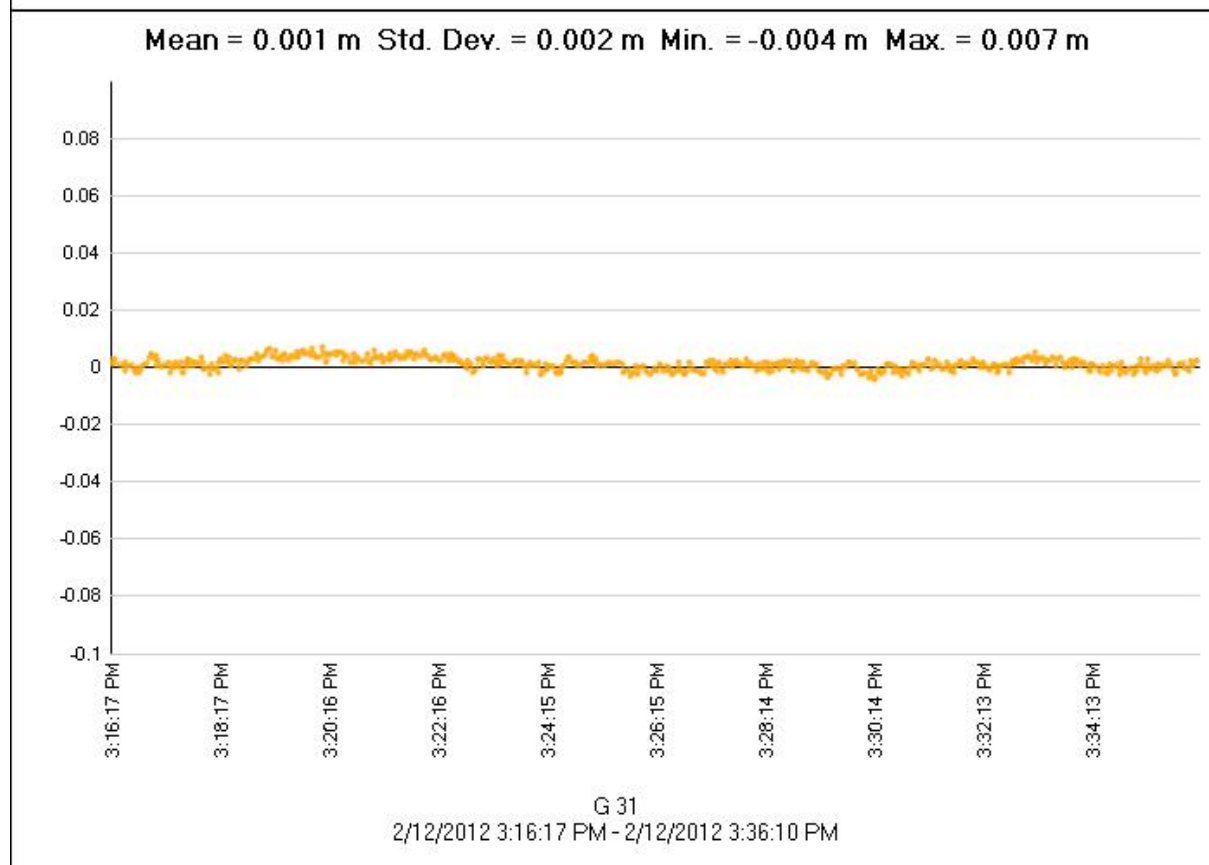
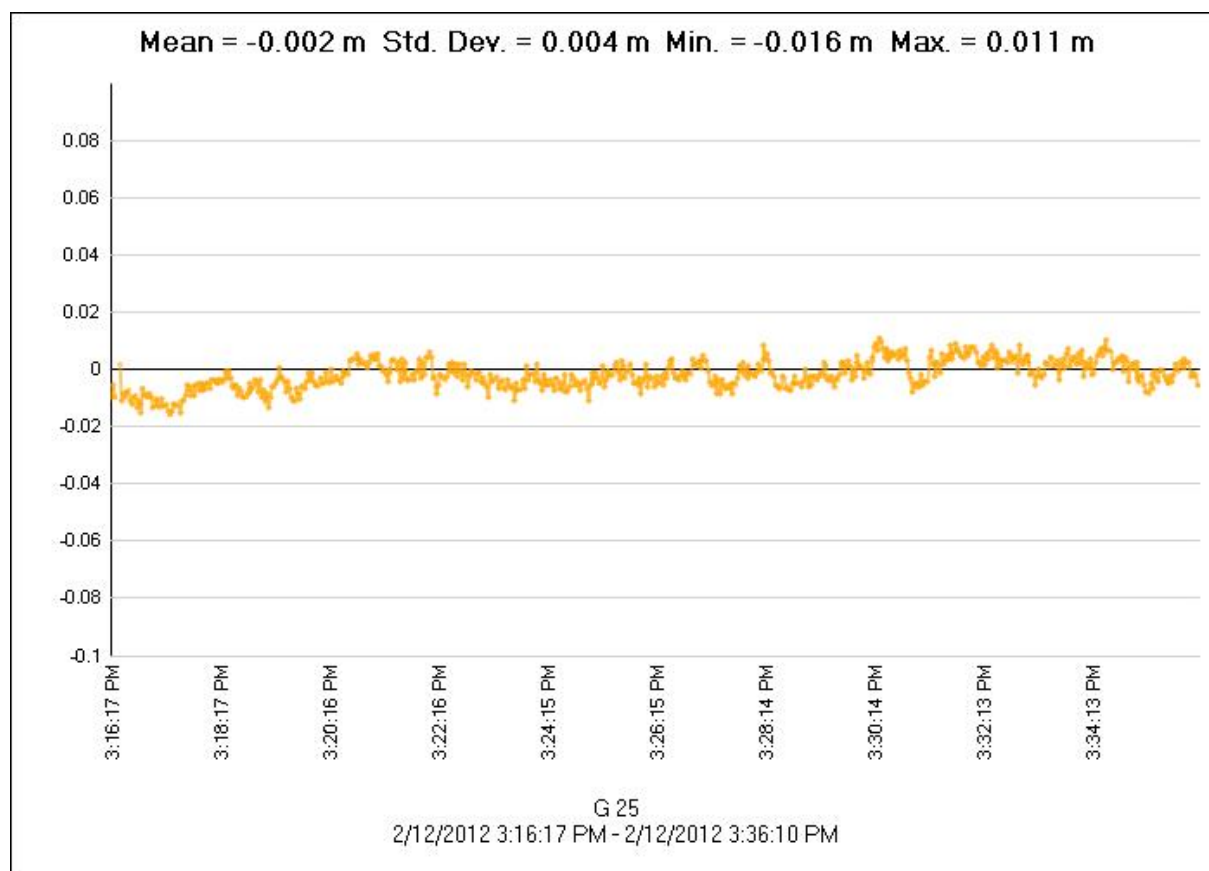
G 12
2/12/2012 3:16:17 PM - 2/12/2012 3:36:10 PM

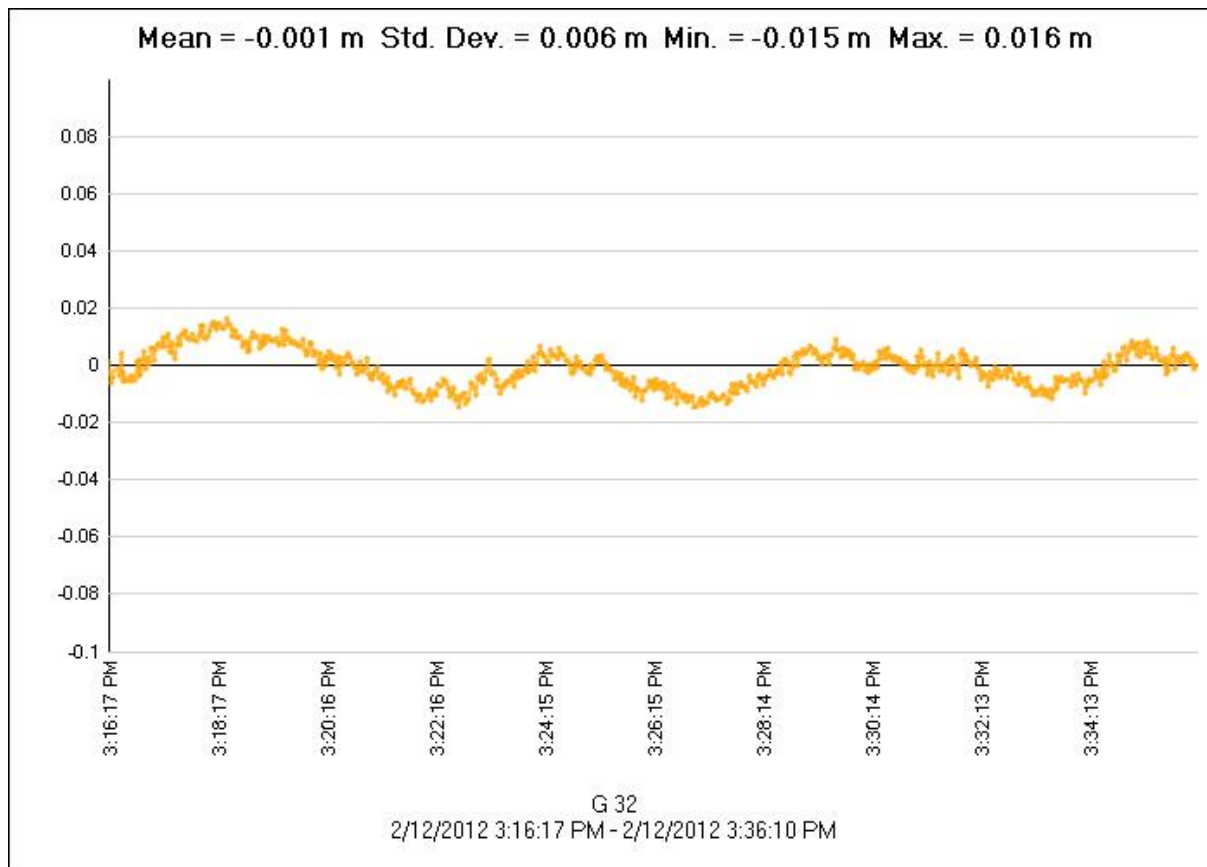
Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.005 m Max. = 0.008 m



G 14
2/12/2012 3:16:17 PM - 2/12/2012 3:36:10 PM









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: JH0456 --- FVA06-B2 (B125)

Processed: 3/21/2012 1:39:27 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.013 m

RMS: 0.002 m

Maximum PDOP: 1.873

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 4:24:33 PM (Local: UTC-7hr)

Processing stop time: 2/12/2012 4:43:03 PM (Local: UTC-7hr)

Processing duration: 00:18:30

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	FVA06-B2				
Grid		Local		Global	
Easting	312686.816 m	Latitude	N38°26'36.90097"	Latitude	N38°26'36.90096"
Northing	4257215.341 m	Longitude	W101°08'46.86386"	Longitude	W101°08'46.86386"
Elevation	977.083 m	Height	952.651 m	Height	952.651 m

Vector					
9Ughb[	-22576.032 m	NS Fwd Azimuth	260°00'45"	L	-22567.579 m
Bcfh\jb[	-3499.954 m	Ellipsoid Dist.	22846.128 m	M	1810.192 m
9Yj Uhcb	65.445 m	<Y][\h	65.930 m	N	-3086.629 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.003 m
Bcfh\]b[	0.004 m	'9~]dgc]X'8]gh	0.003 m	M	0.006 m
'9`Yj Uhcb	0.007 m	' <Y][\h	0.007 m	N	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000095886		
Y	0.0000076361	0.0000405215	
Z	-0.0000014937	-0.0000106466	0.0000164005

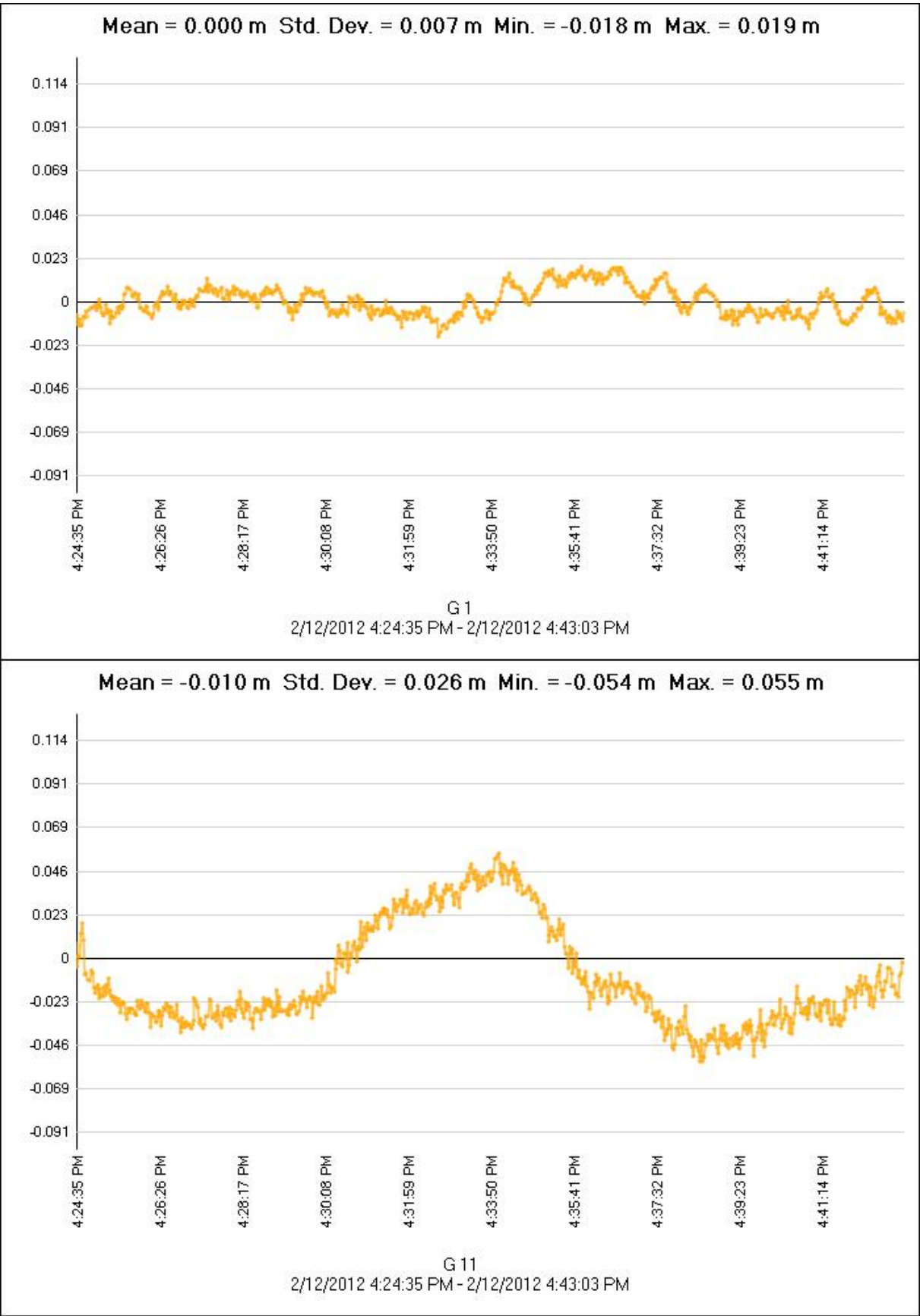
Occupations

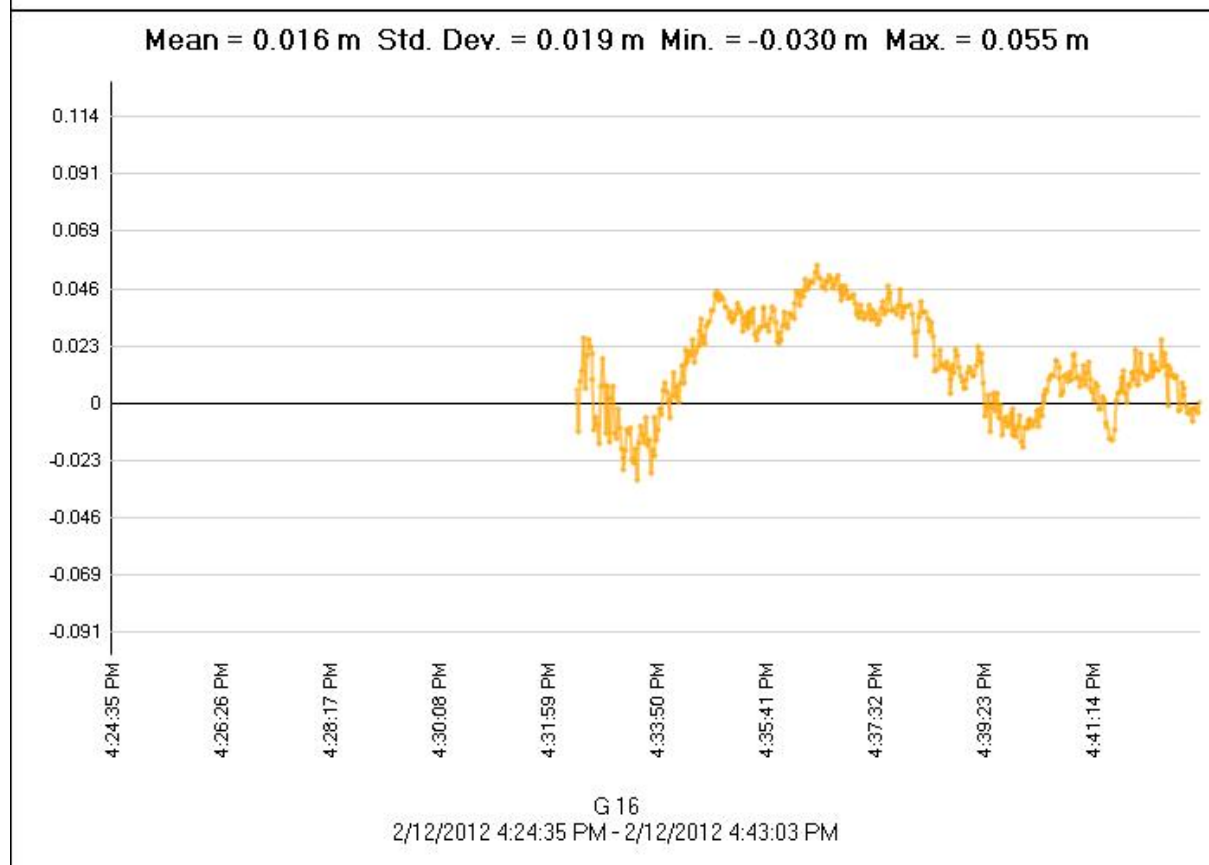
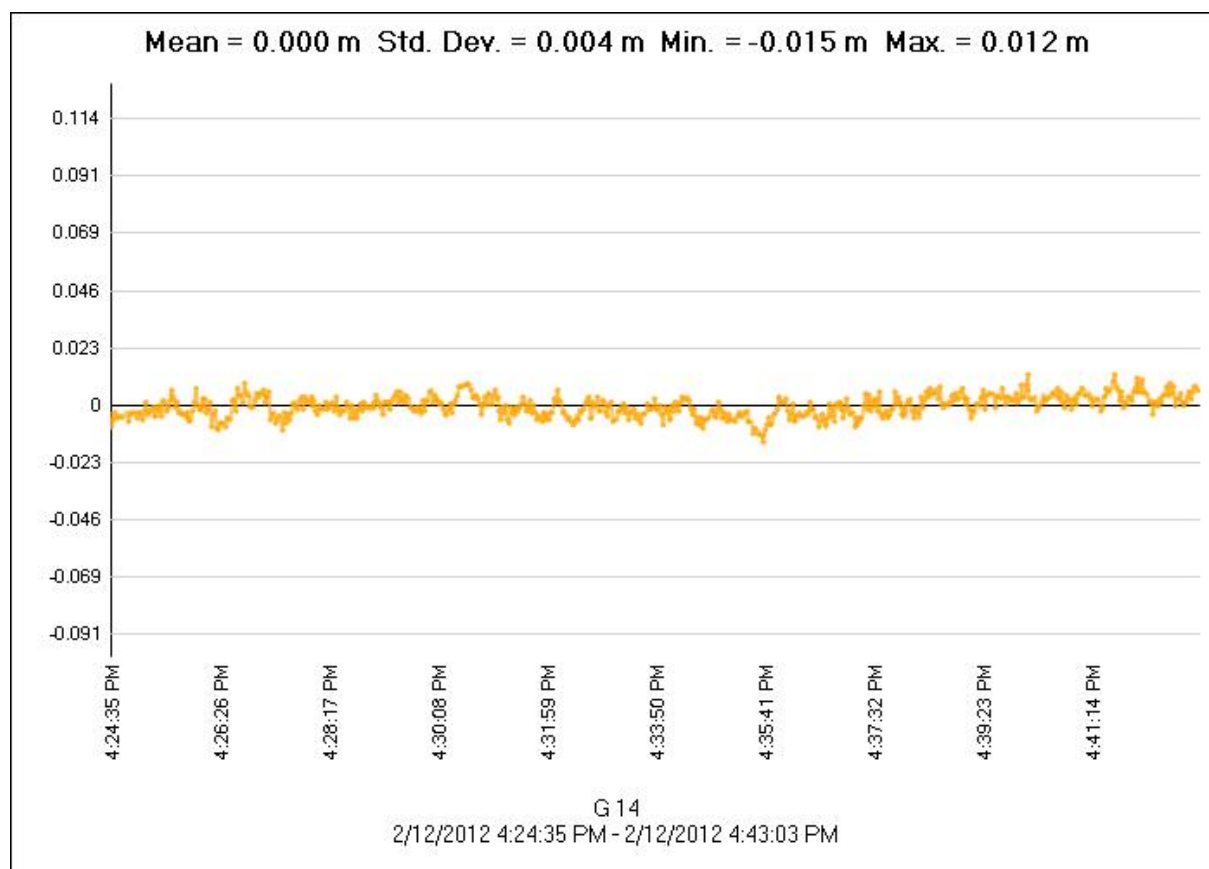
	From	To
Point ID:	JH0456	FVA06-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010430.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00080437.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

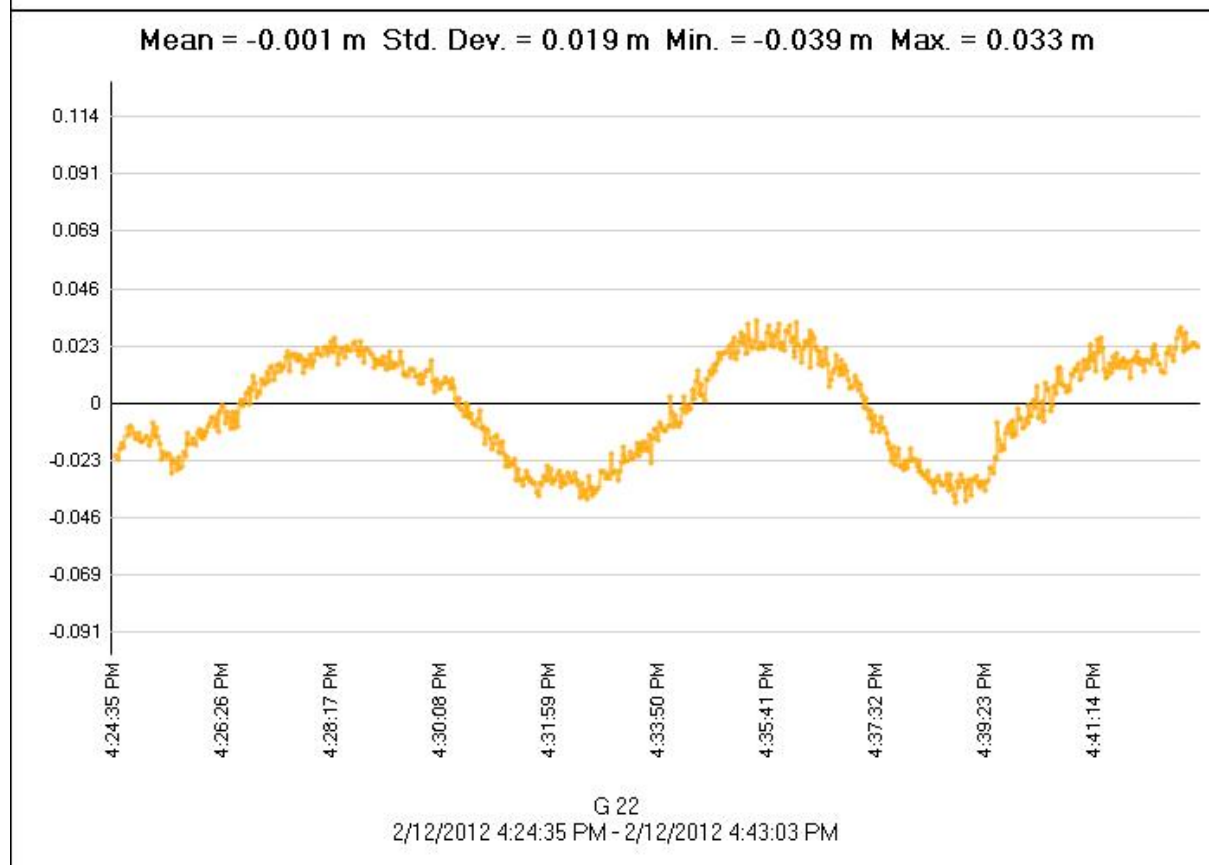
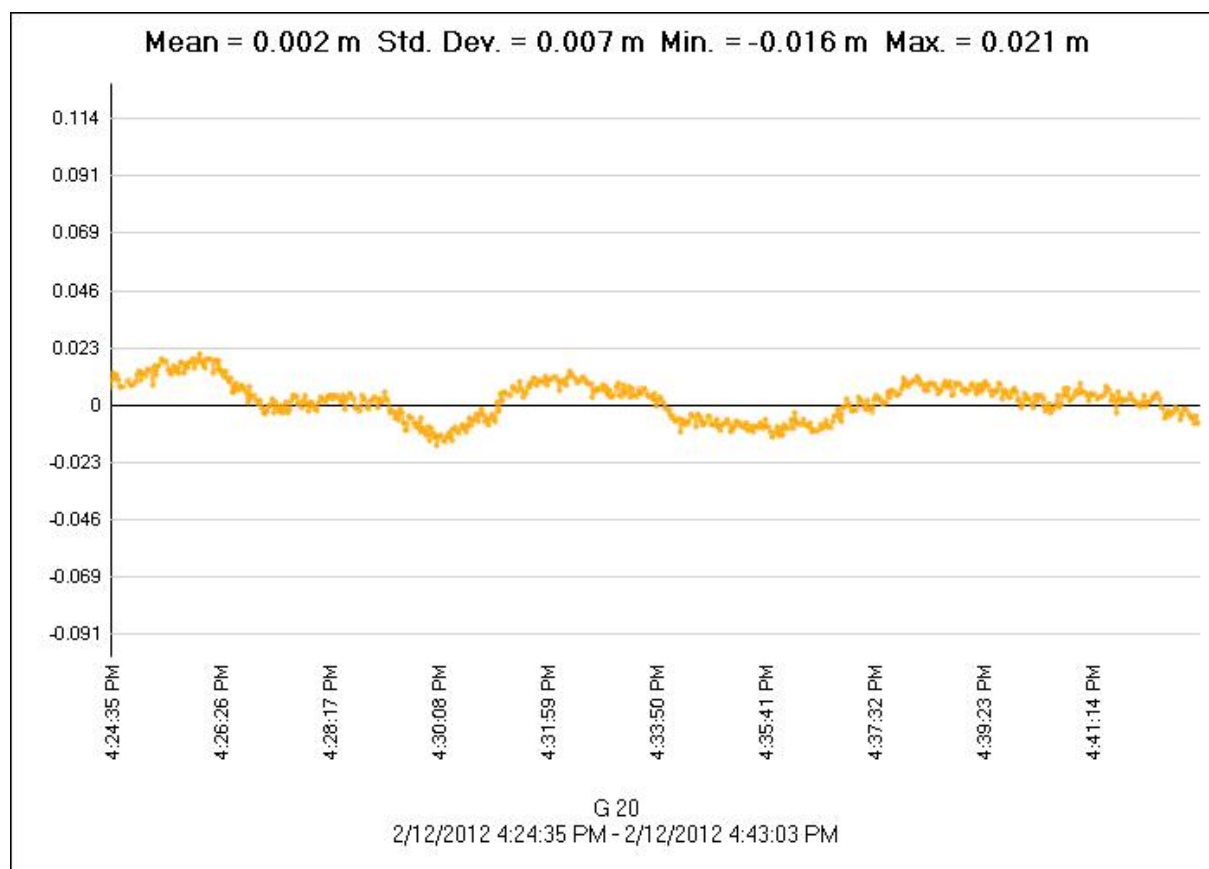
Tracking Summary

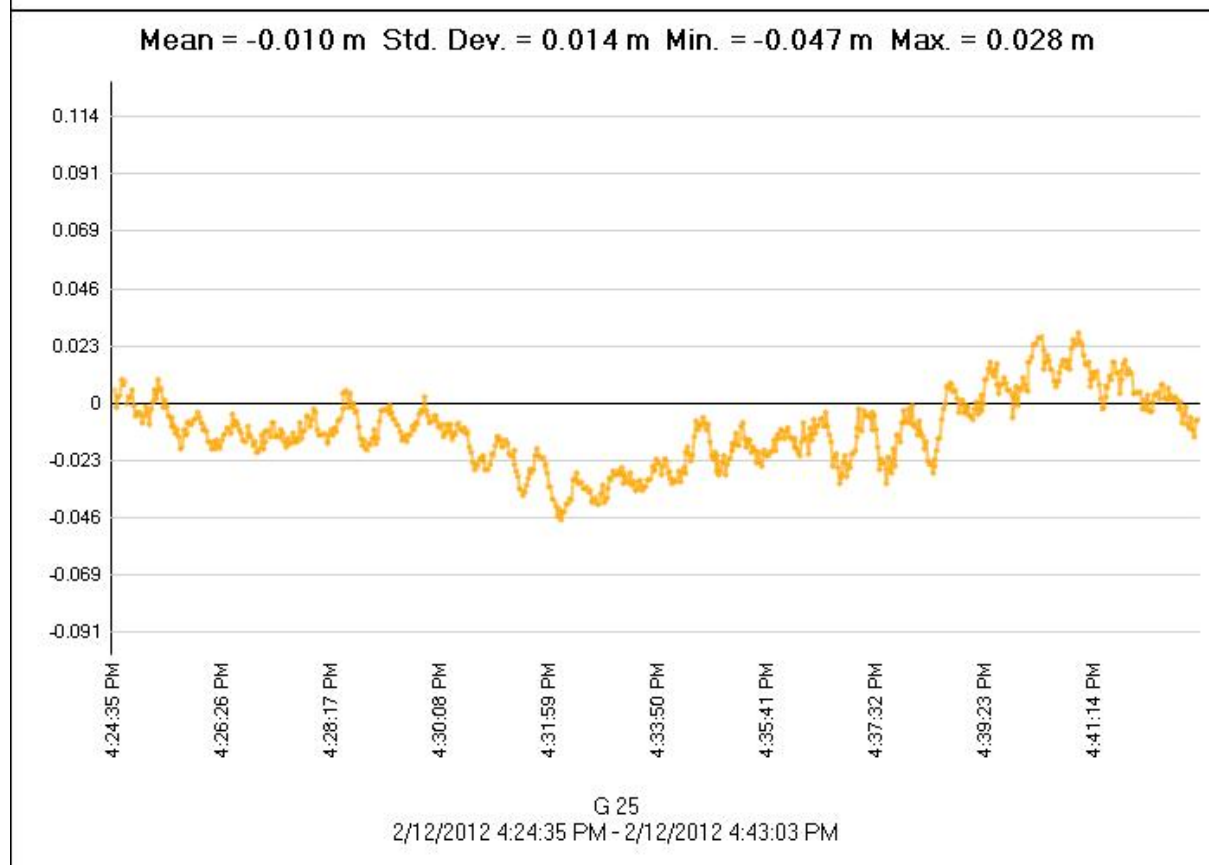
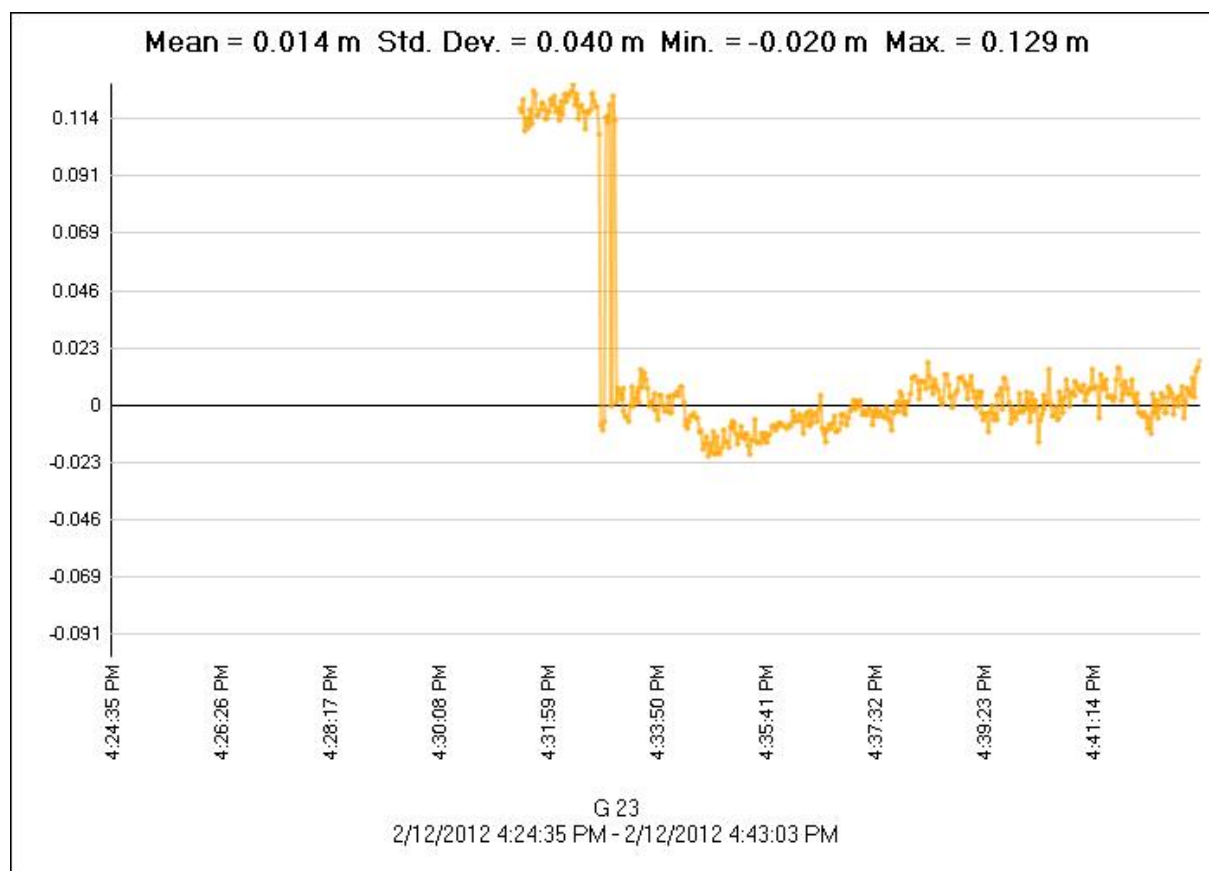
SV	2/12/2012 4:24:33 PM	Duration: 00:18:30 Major interval: 00:01:00	2/12/2012 4:43:03 PM
G 1			
G 11			
G 14			
G 16			
G 20			
G 22			
G 23			
G 25			
G 30			
G 31			
G 32			

Residuals









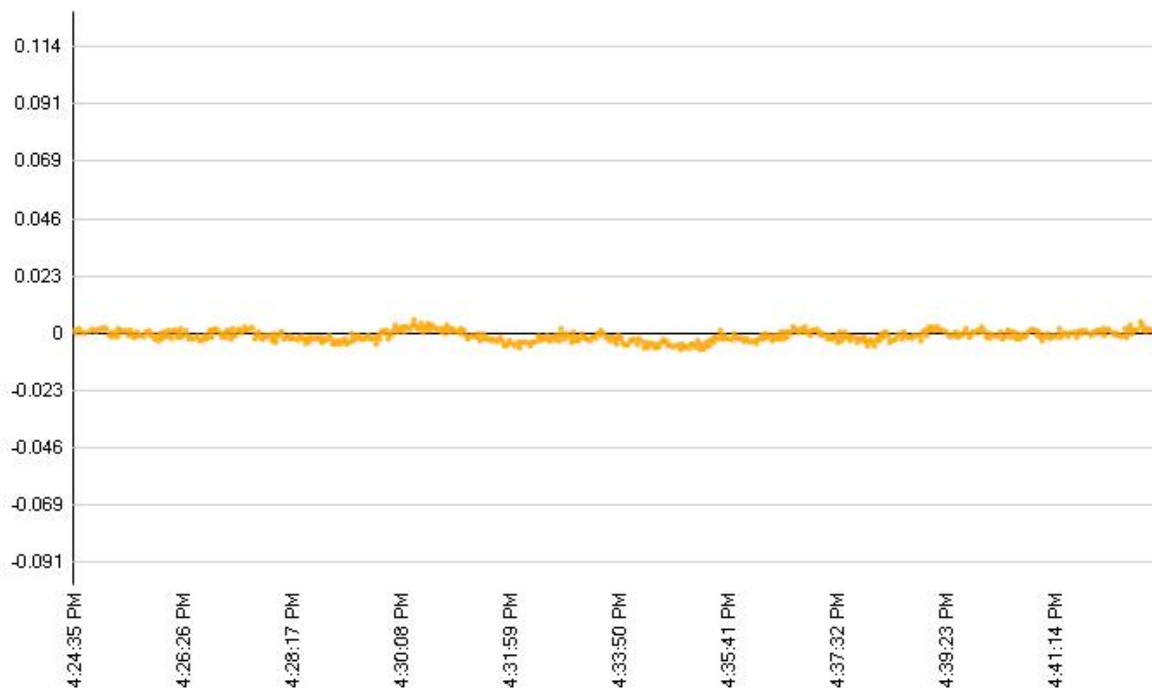
Mean = 0.005 m Std. Dev. = 0.006 m Min. = -0.009 m Max. = 0.020 m



G 30

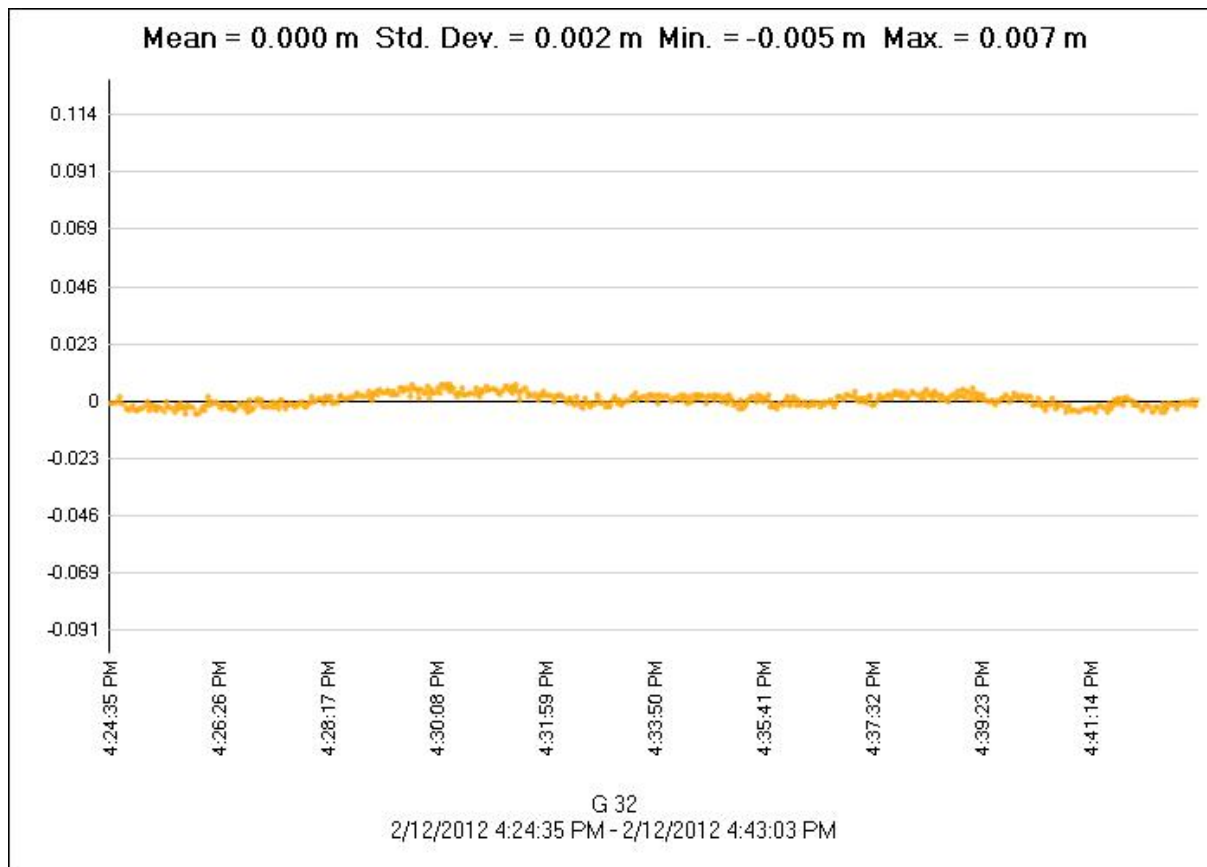
2/12/2012 4:24:35 PM - 2/12/2012 4:43:03 PM

Mean = -0.001 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.005 m



G 31

2/12/2012 4:24:35 PM - 2/12/2012 4:43:03 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: JH0456 --- SVA06-B2 (B127)

Processed: 3/21/2012 1:39:28 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.009 m

Vertical precision: 0.013 m

RMS: 0.002 m

Maximum PDOP: 2.056

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/12/2012 4:47:24 PM (Local: UTC-7hr)

Processing stop time: 2/12/2012 5:06:28 PM (Local: UTC-7hr)

Processing duration: 00:19:03

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA06-B2				
Grid		Local		Global	
Easting	312661.023 m	Latitude	N38°26'35.51058"	Latitude	N38°26'35.51057"
Northing	4257173.057 m	Longitude	W101°08'47.88651"	Longitude	W101°08'47.88651"
Elevation	976.971 m	Height	952.540 m	Height	952.540 m

Vector					
9Ughb[	-22601.824 m	NS Fwd Azimuth	259°55'04"	L	-22597.052 m
Bcfh\jb[	-3542.239 m	Ellipsoid Dist.	22878.124 m	M	1788.916 m
9`Yj Uhcb	65.333 m	<Y][\h	65.819 m	N	-3120.282 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.003 m
Bcfh\]b[	0.004 m	'9~]dgc]X'8]gh	0.003 m	M	0.006 m
'9`Yj Uhcb	0.007 m	' <Y][\h	0.007 m	N	0.004 m

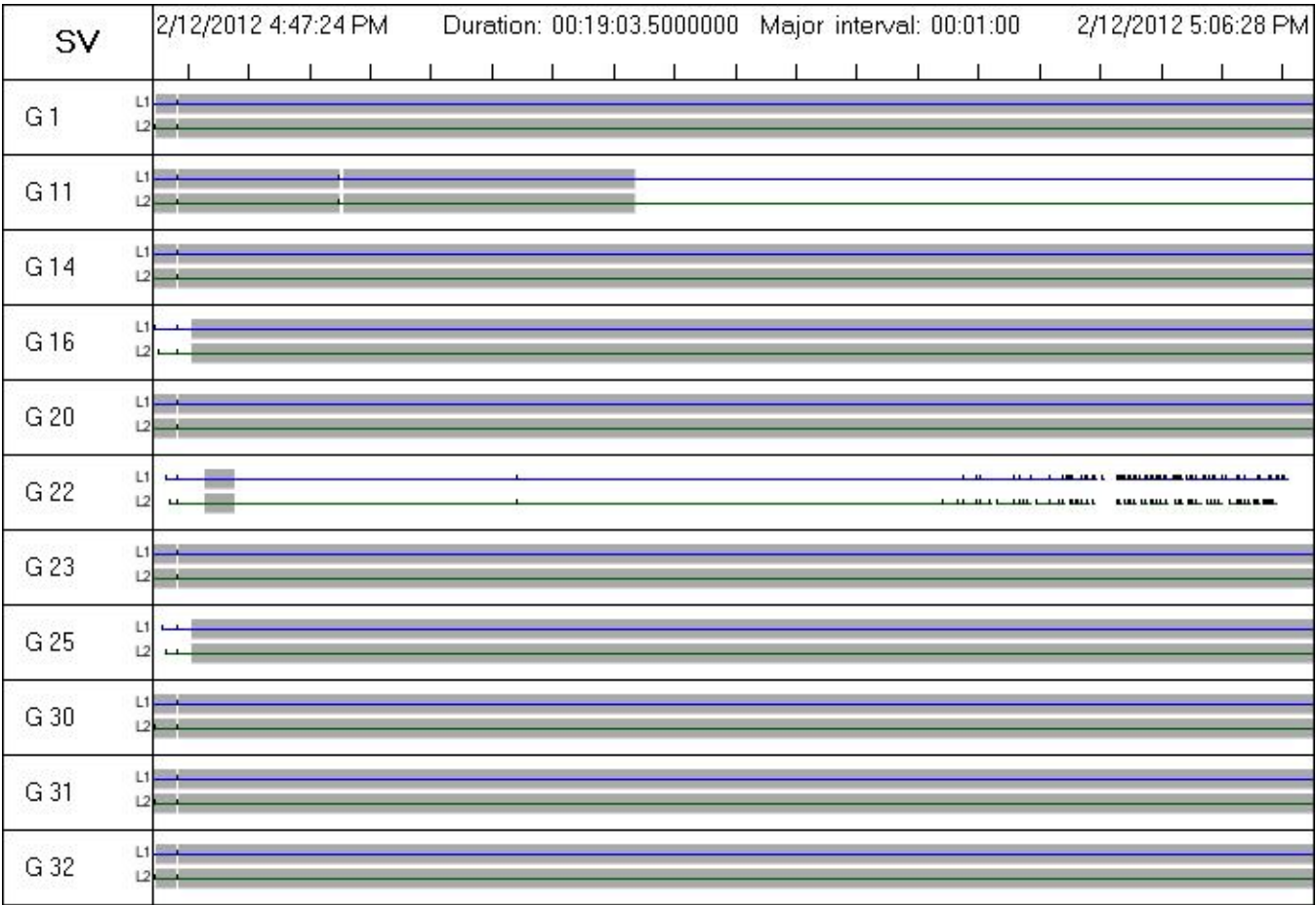
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000105044		
Y	0.0000078633	0.0000402424	
Z	-0.0000020821	-0.0000140233	0.0000185266

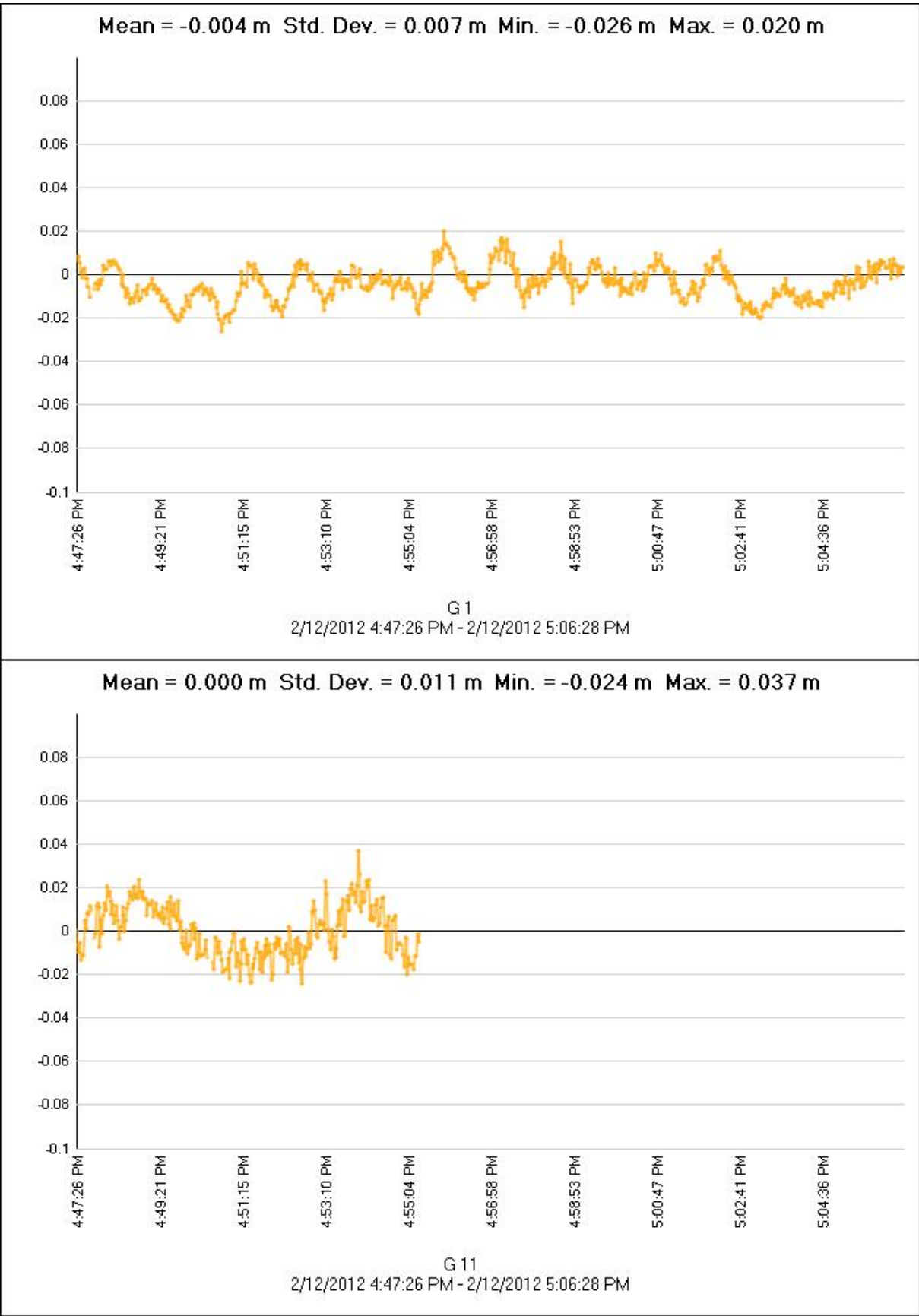
Occupations

	From	To
Point ID:	JH0456	SVA06-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010430.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080438.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

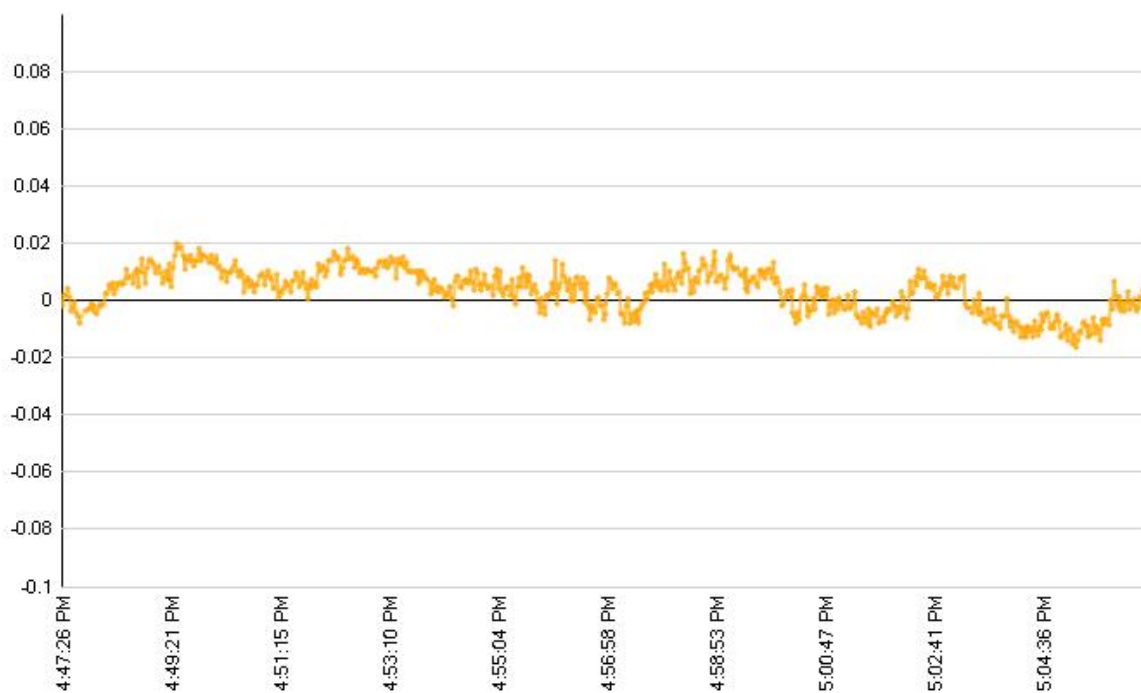
Tracking Summary



Residuals

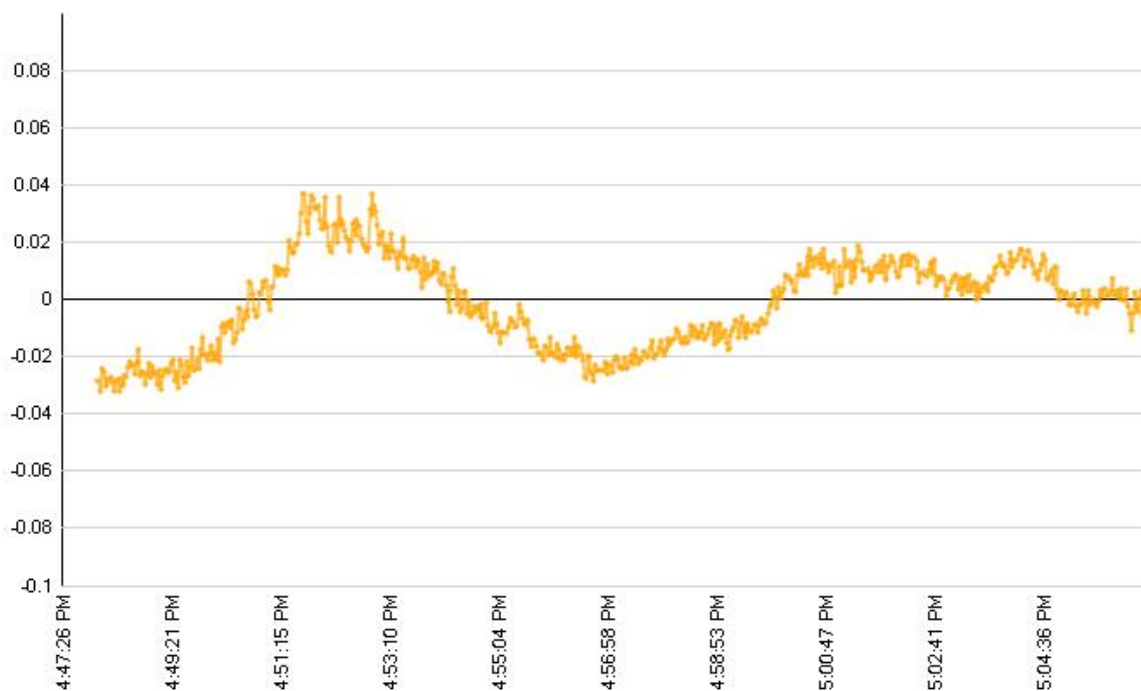


Mean = 0.003 m Std. Dev. = 0.007 m Min. = -0.016 m Max. = 0.020 m



G 14
2/12/2012 4:47:26 PM - 2/12/2012 5:06:28 PM

Mean = -0.001 m Std. Dev. = 0.015 m Min. = -0.032 m Max. = 0.037 m



G 16
2/12/2012 4:47:26 PM - 2/12/2012 5:06:28 PM

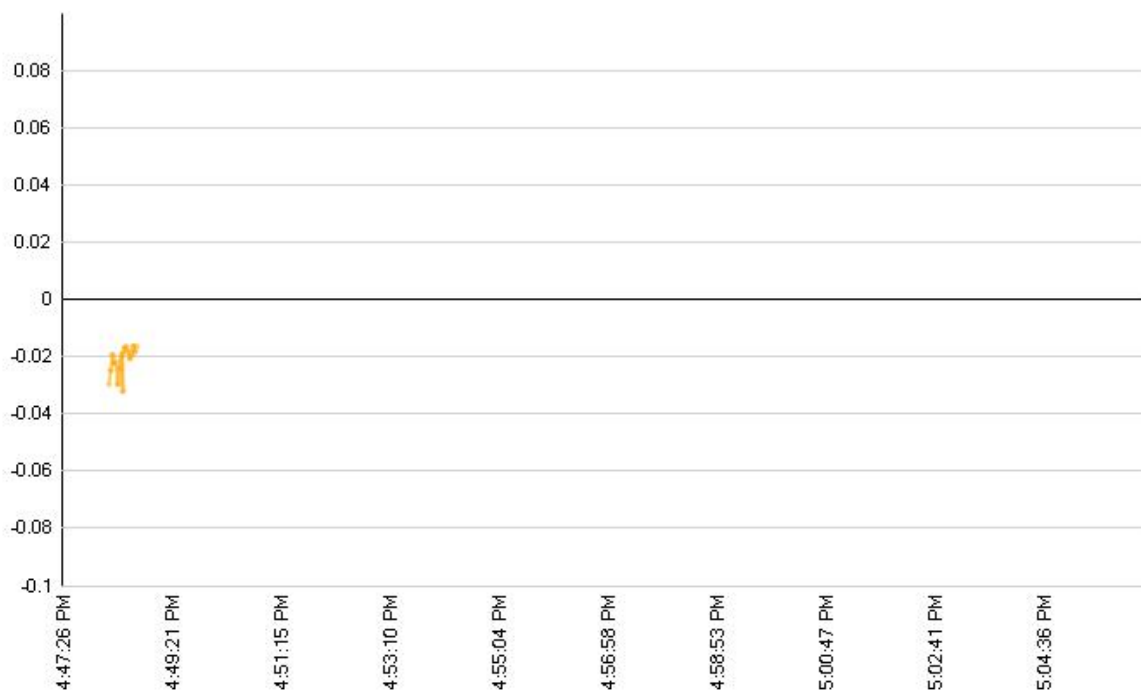
Mean = 0.003 m Std. Dev. = 0.006 m Min. = -0.009 m Max. = 0.015 m



G 20

2/12/2012 4:47:26 PM - 2/12/2012 5:06:28 PM

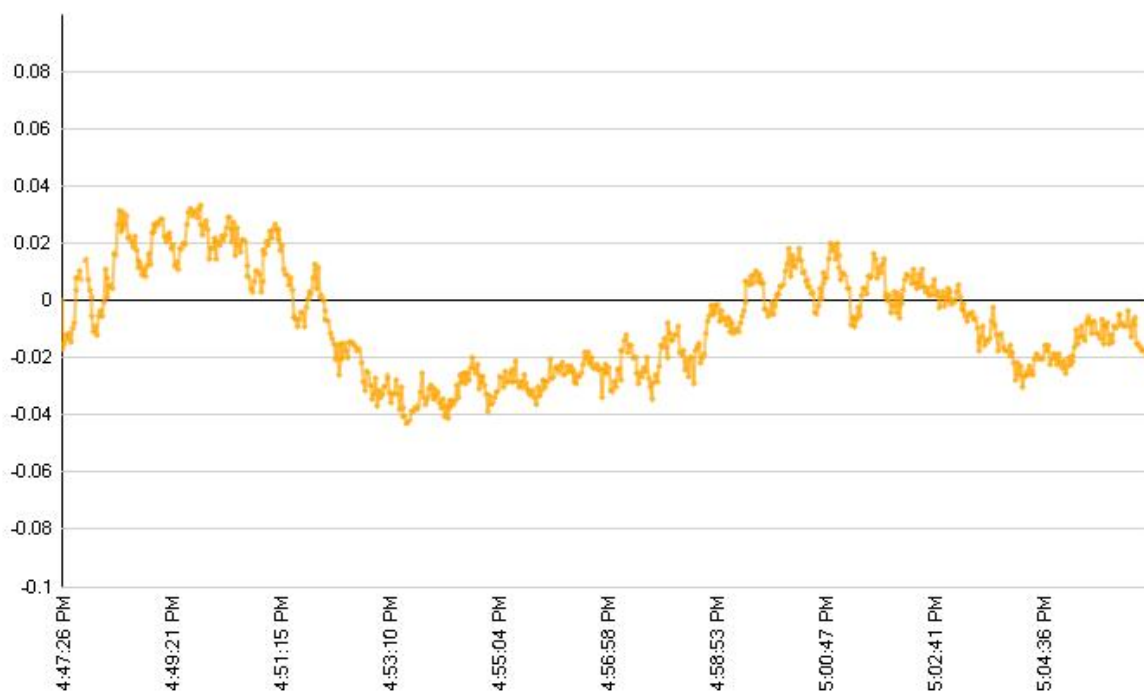
Mean = -0.021 m Std. Dev. = 0.005 m Min. = -0.032 m Max. = -0.015 m



G 22

2/12/2012 4:47:26 PM - 2/12/2012 5:06:28 PM

Mean = -0.008 m Std. Dev. = 0.018 m Min. = -0.043 m Max. = 0.033 m



G 23

2/12/2012 4:47:26 PM - 2/12/2012 5:06:28 PM

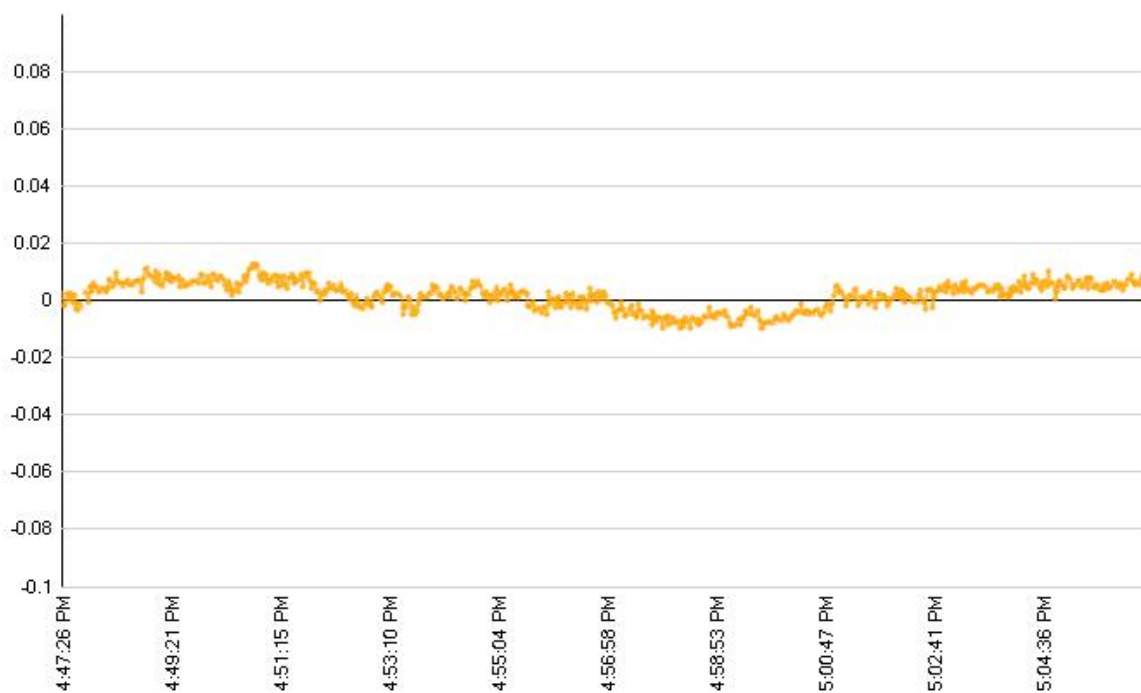
Mean = -0.009 m Std. Dev. = 0.019 m Min. = -0.057 m Max. = 0.045 m



G 25

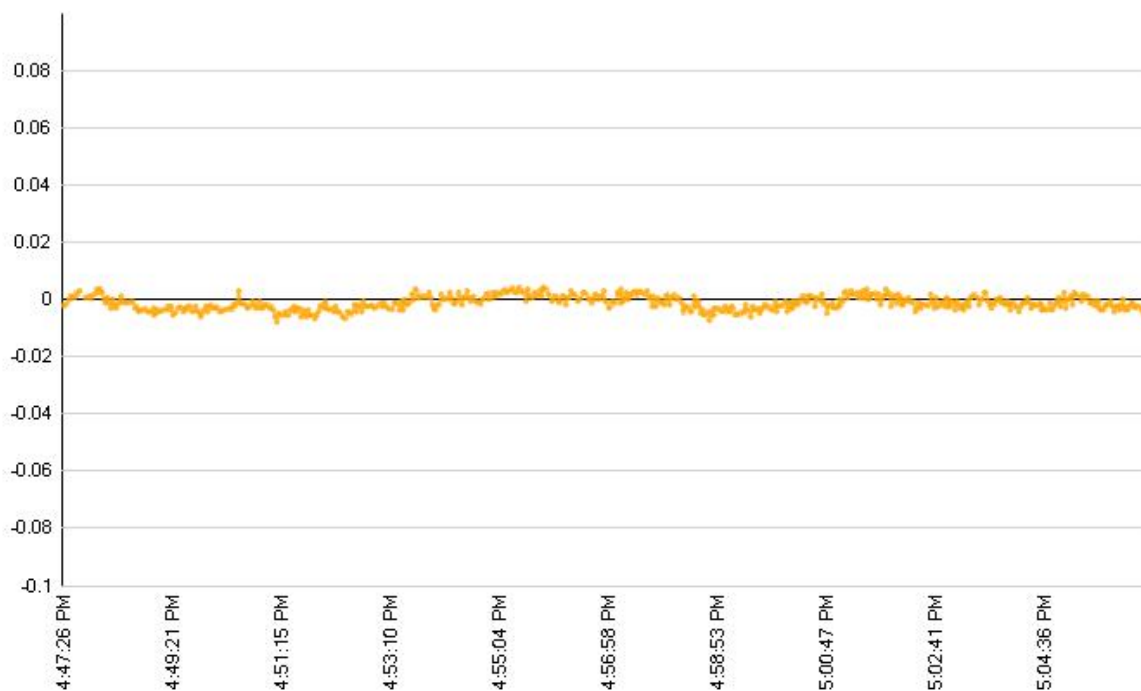
2/12/2012 4:47:26 PM - 2/12/2012 5:06:28 PM

Mean = 0.002 m Std. Dev. = 0.005 m Min. = -0.010 m Max. = 0.013 m

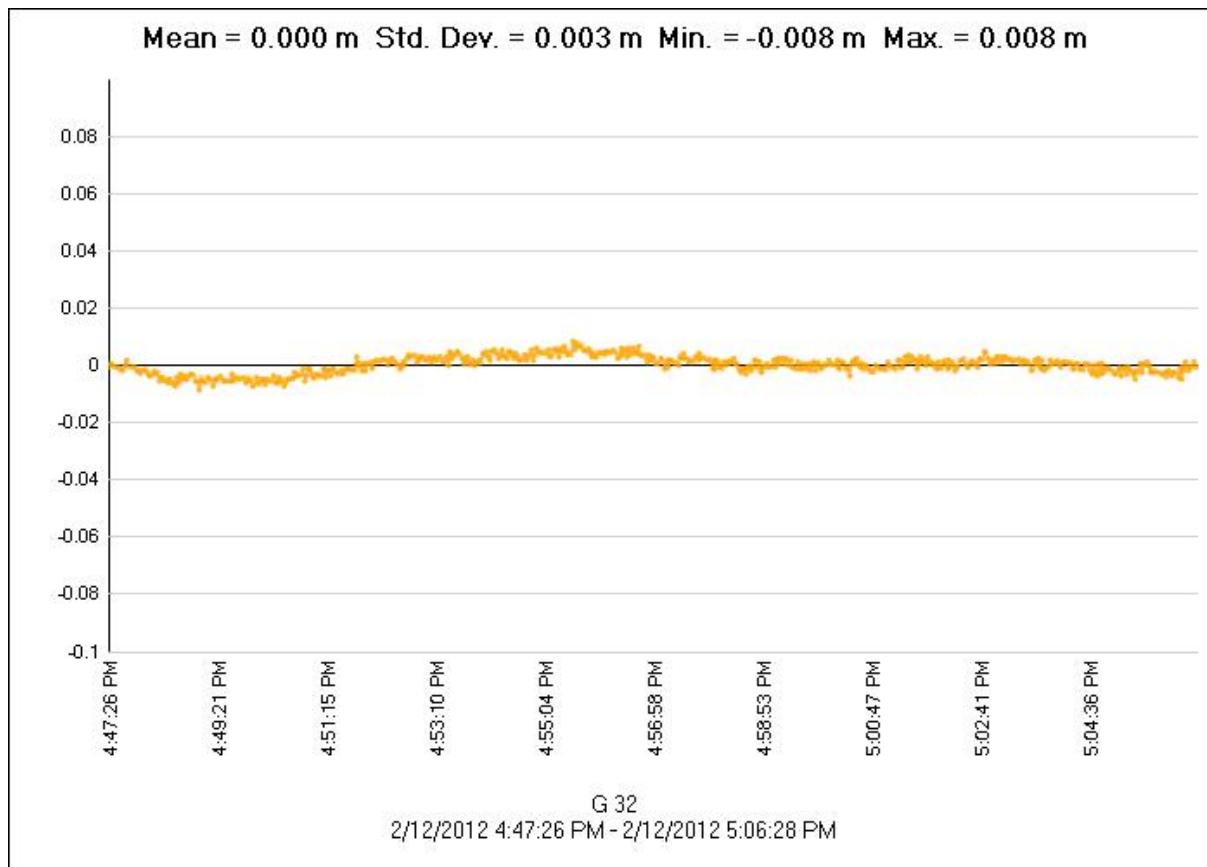


G 30
2/12/2012 4:47:26 PM - 2/12/2012 5:06:28 PM

Mean = -0.001 m Std. Dev. = 0.002 m Min. = -0.008 m Max. = 0.004 m



G 31
2/12/2012 4:47:26 PM - 2/12/2012 5:06:28 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA02-B2 (8:42:29 AM-9:02:14 AM) (S129)

Baseline observation:	JH0456 --- FVA02-B2 (B129)
Processed:	3/21/2012 1:39:36 PM
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.009 m
Vertical precision:	0.014 m
RMS:	0.001 m
Maximum PDOP:	2.916
Ephemeris used:	Broadcast
Antenna model:	US National Geodetic Survey Calibration
Processing start time:	2/13/2012 8:42:29 AM (Local: UTC-7hr)
Processing stop time:	2/13/2012 9:02:14 AM (Local: UTC-7hr)
Processing duration:	00:19:45
Processing interval:	.5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	FVA02-B2				
Grid		Local		Global	
Easting	311322.155 m	Latitude	N38°31'49.64648"	Latitude	N38°31'49.64647"
Northing	4266893.774 m	Longitude	W101°09'52.50559"	Longitude	W101°09'52.50559"
Elevation	982.056 m	Height	957.638 m	Height	957.638 m

Vector					
9Ughb[	-23940.693 m	NS Fwd Azimuth	283°17'41"	L	-22968.085 m
Bcfh\jb[	6178.479 m	Ellipsoid Dist.	24725.463 m	M	8003.187 m
9`Yj Uhcb	70.418 m	<Y][\h	70.917 m	N	4466.035 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.004 m
Point ID	0.004 m	Point Description	0.003 m	Point Type	0.006 m
Point ID	0.007 m	Point Description	0.007 m	Point Type	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000130091		
Y	0.0000055995	0.0000358906	
Z	-0.0000047122	-0.0000179249	0.0000302982

Occupations

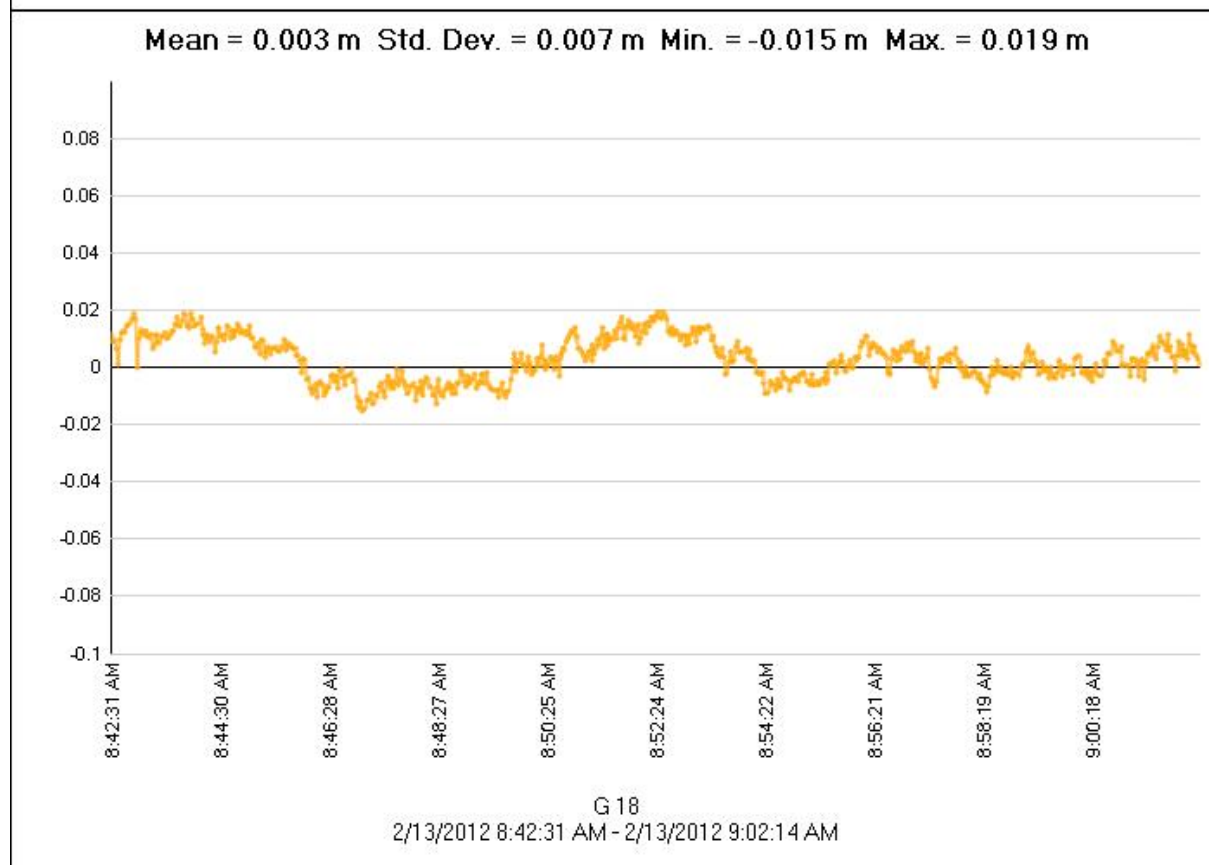
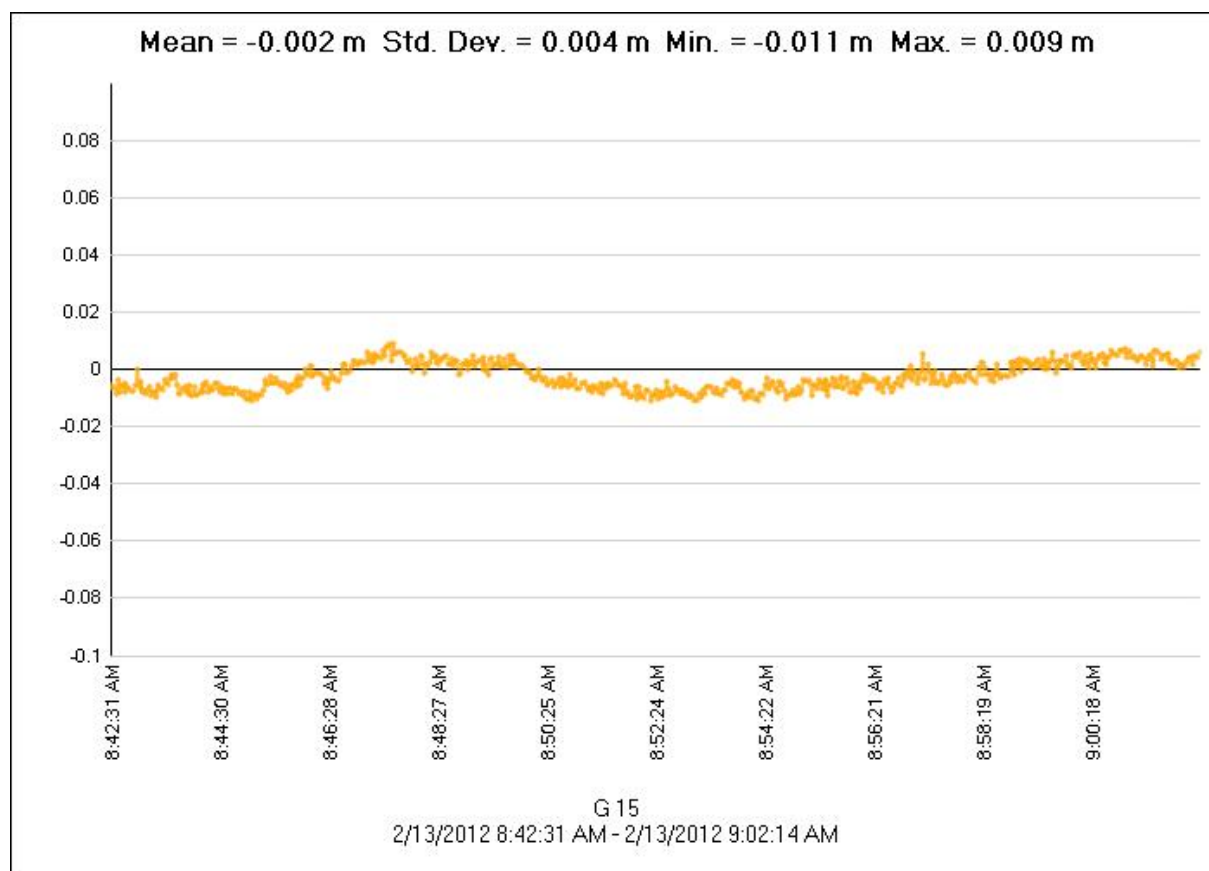
	From	To
Point ID:	JH0456	FVA02-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080440.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

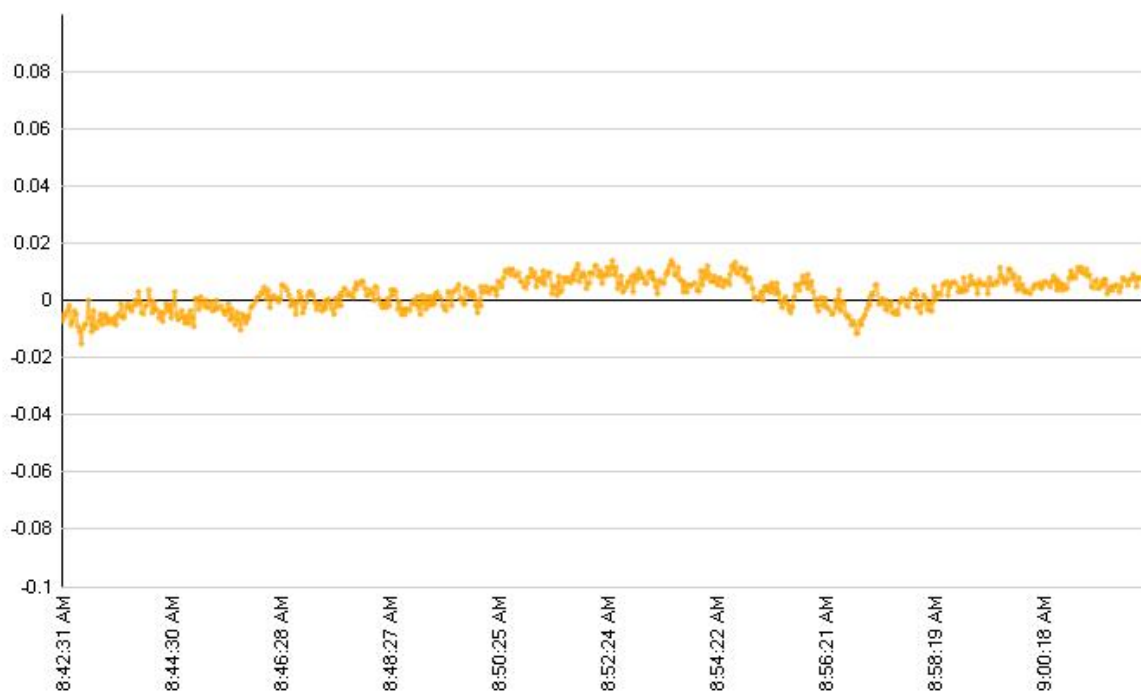
SV	2/13/2012 8:42:29 AM	Duration: 00:19:45 Major interval: 00:01:00	2/13/2012 9:02:14 AM
G 2	L1 L2		
G 5	L1 L2		
G 15	L1 L2		
G 16	L1 L2		
G 18	L1 L2		
G 21	L1 L2		
G 25	L1 L2		
G 29	L1 L2		
G 30	L1 L2		

Residuals





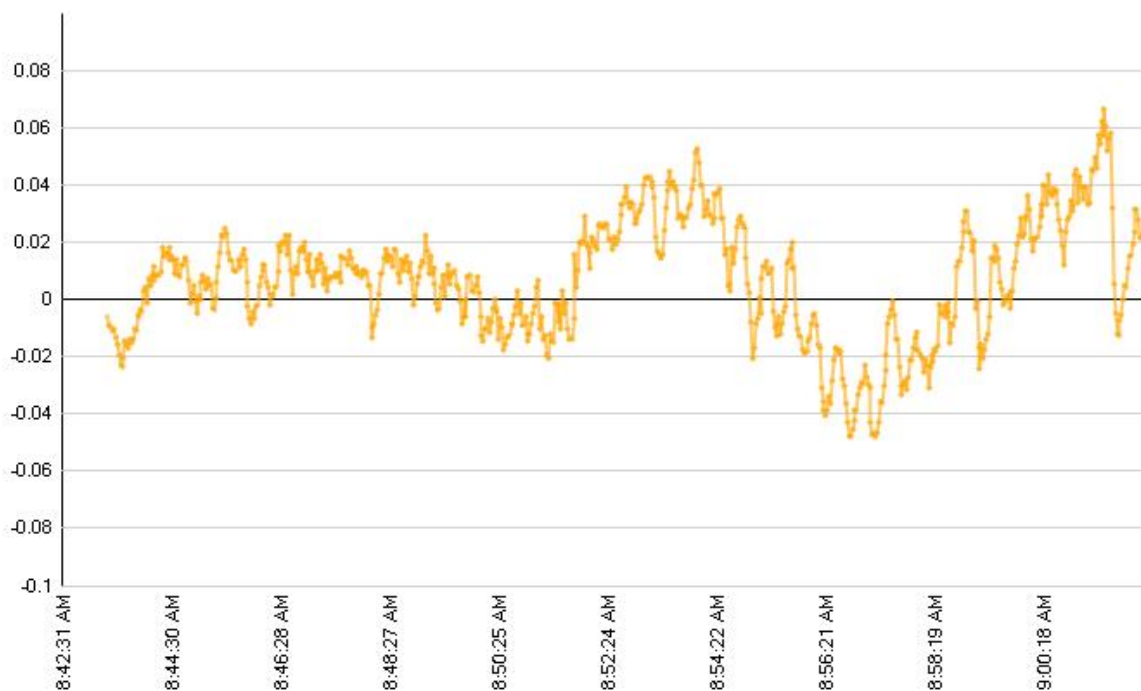
Mean = 0.002 m Std. Dev. = 0.005 m Min. = -0.015 m Max. = 0.014 m



G 21

2/13/2012 8:42:31 AM - 2/13/2012 9:02:14 AM

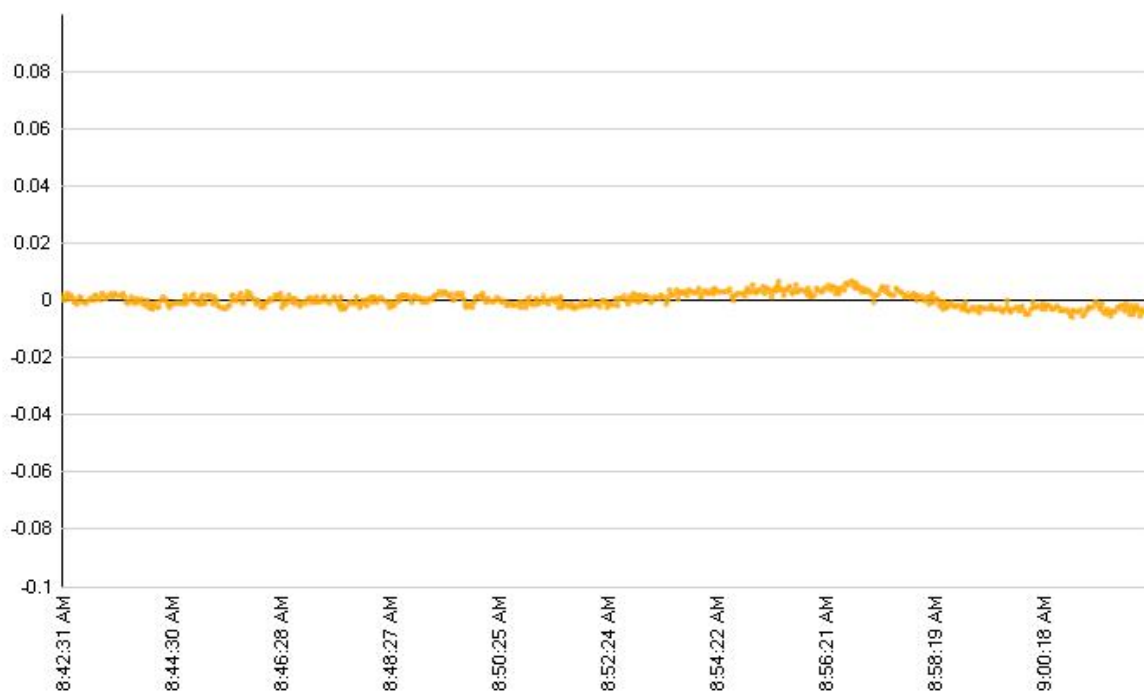
Mean = 0.007 m Std. Dev. = 0.020 m Min. = -0.048 m Max. = 0.066 m



G 25

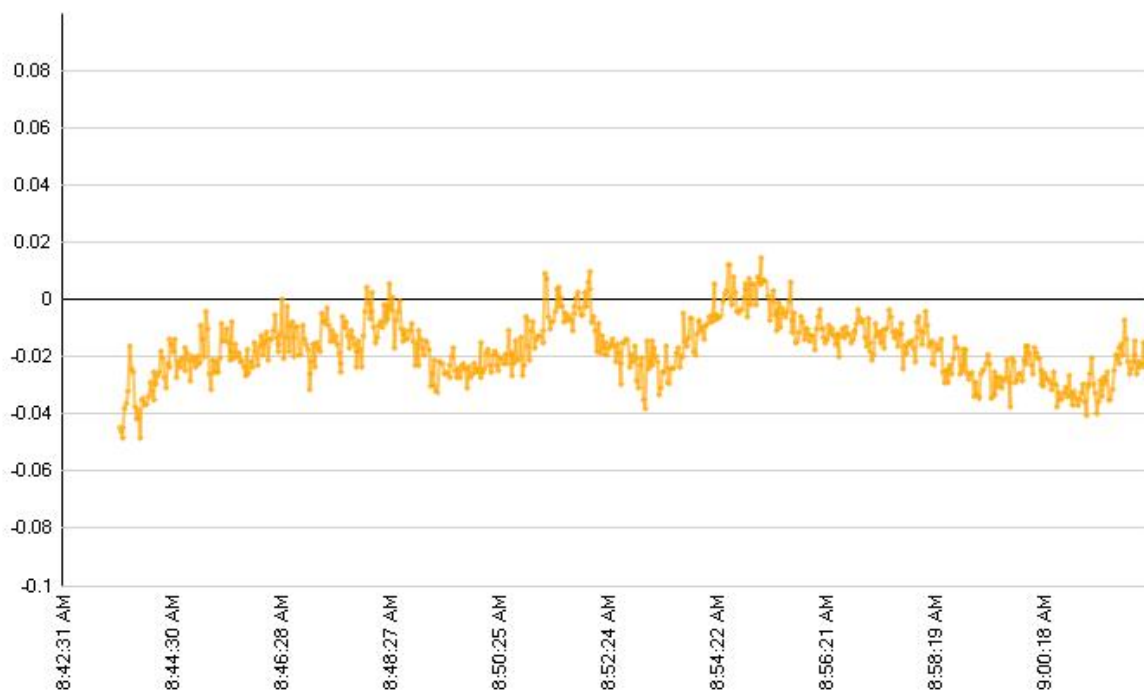
2/13/2012 8:42:31 AM - 2/13/2012 9:02:14 AM

Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.007 m



G 29
2/13/2012 8:42:31 AM - 2/13/2012 9:02:14 AM

Mean = -0.016 m Std. Dev. = 0.010 m Min. = -0.048 m Max. = 0.015 m



G 30
2/13/2012 8:42:31 AM - 2/13/2012 9:02:14 AM

Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA02-B2 (9:06:24 AM-9:26:50 AM) (S131)

Baseline observation: JH0456 --- SVA02-B2 (B131)

Processed: 3/21/2012 1:39:33 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.020 m

Vertical precision: 0.034 m

RMS: 0.001 m

Maximum PDOP: 3.383

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 9:06:24 AM (Local: UTC-7hr)

Processing stop time: 2/13/2012 9:26:50 AM (Local: UTC-7hr)

Processing duration: 00:20:26

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA02-B2				
Grid		Local		Global	
Easting	311286.633 m	Latitude	N38°31'52.14844"	Latitude	N38°31'52.14844"
Northing	4266971.784 m	Longitude	W101°09'54.04754"	Longitude	W101°09'54.04754"
Elevation	982.103 m	Height	957.685 m	Height	957.685 m

Vector					
9Ughb[	-23976.215 m	NS Fwd Azimuth	283°26'56"	L	-22995.432 m
Bcfh\jb[	6256.488 m	Ellipsoid Dist.	24779.441 m	M	8057.539 m
9`Yj Uhcb	70.465 m	<Y][\h	70.964 m	N	4526.425 m

Standard Errors

Vector errors:					
Ughb[	0.006 m	BG`Zk X'5n]a i h	0°00'00"	L	0.006 m
Bcfh\]b[	0.008 m	'9~]dgc]X'8]gh	0.006 m	M	0.012 m
'9`Yj Uhcb	0.017 m	' <Y][\h	0.017 m	N	0.015 m

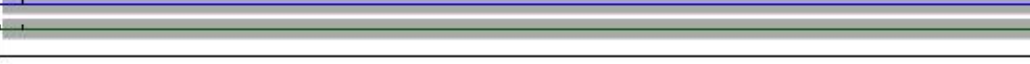


Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000412250		
Y	0.0000319706	0.0001360303	
Z	-0.0000305823	-0.0001276127	0.0002215702

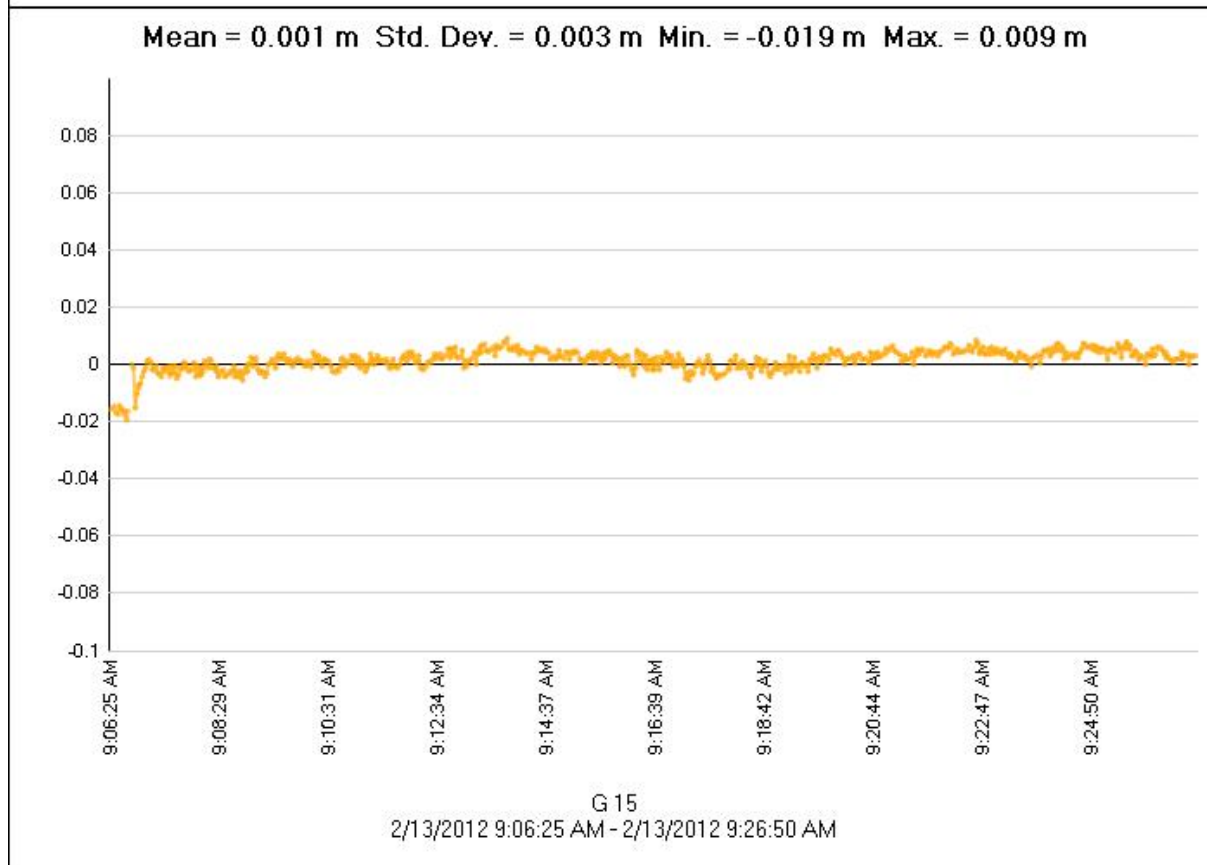
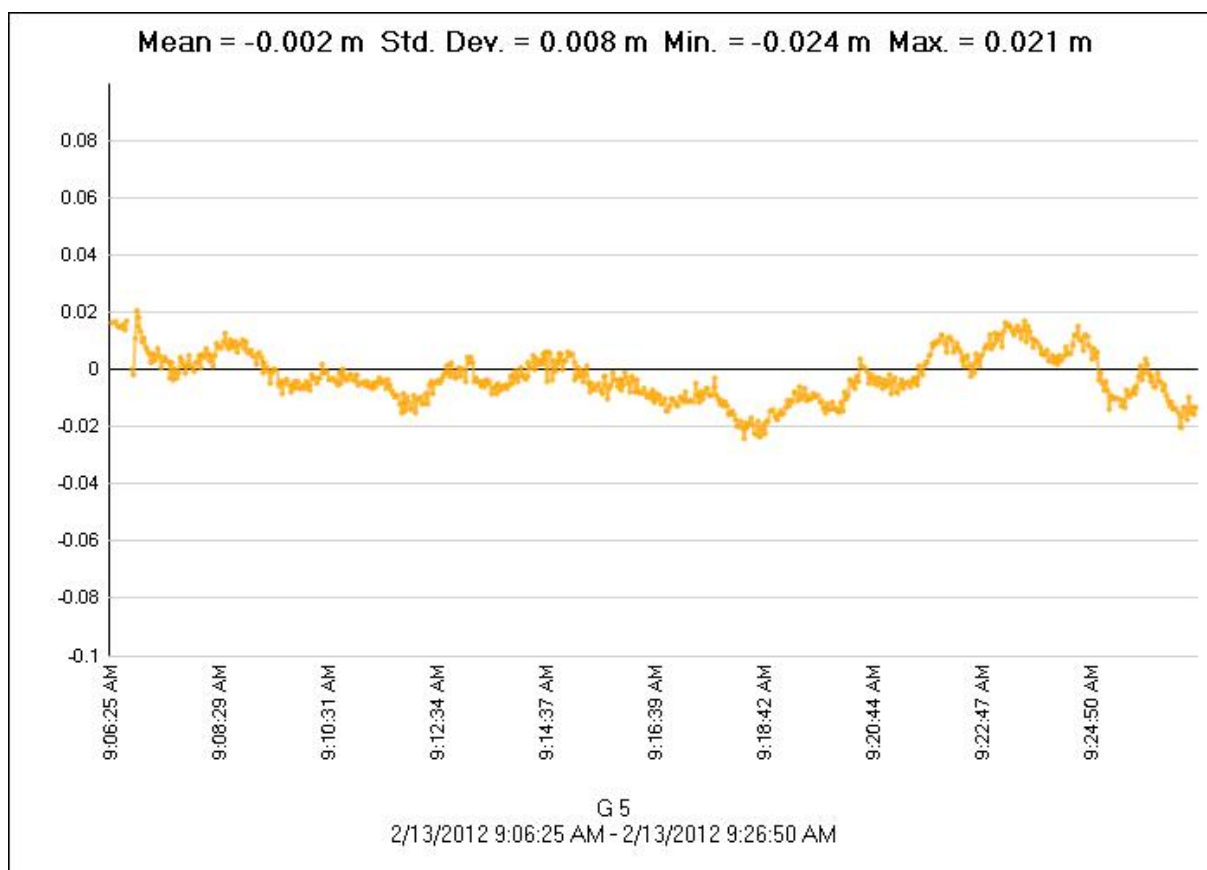
Occupations

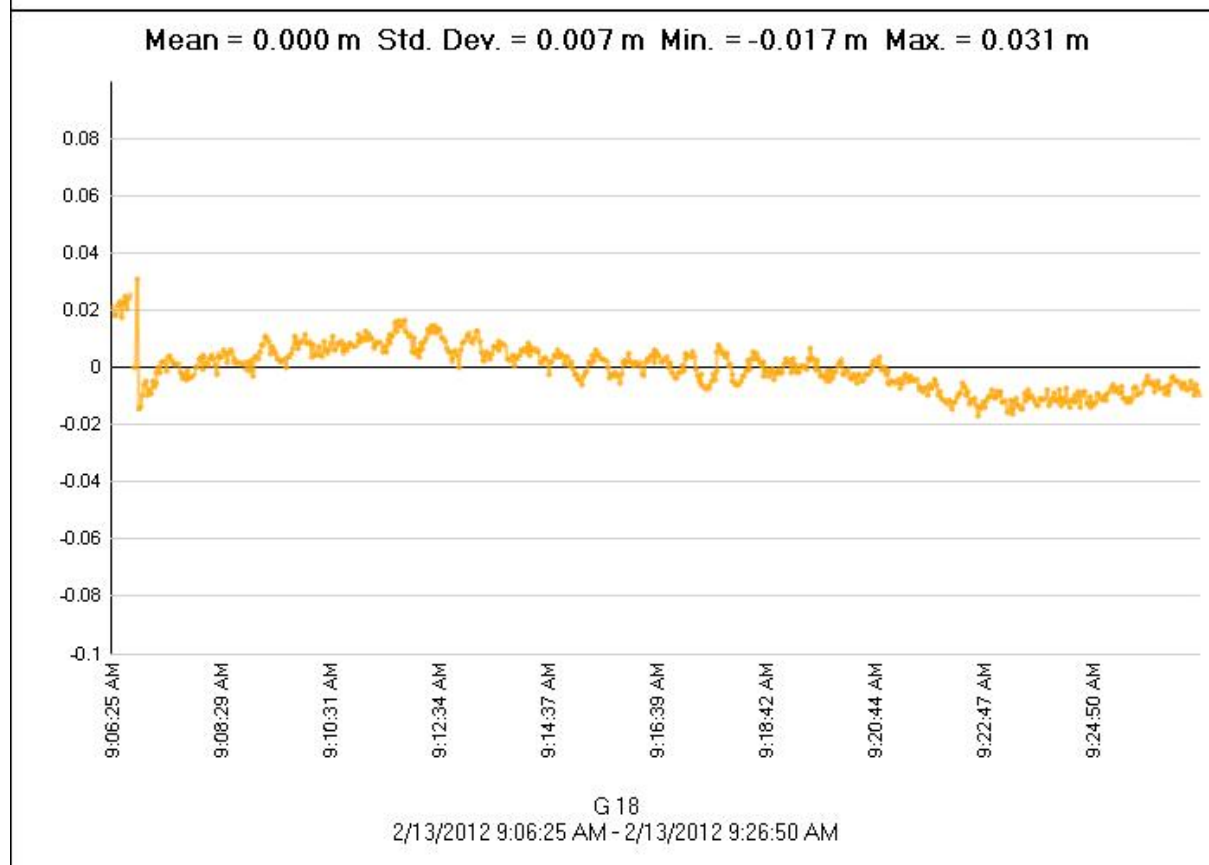
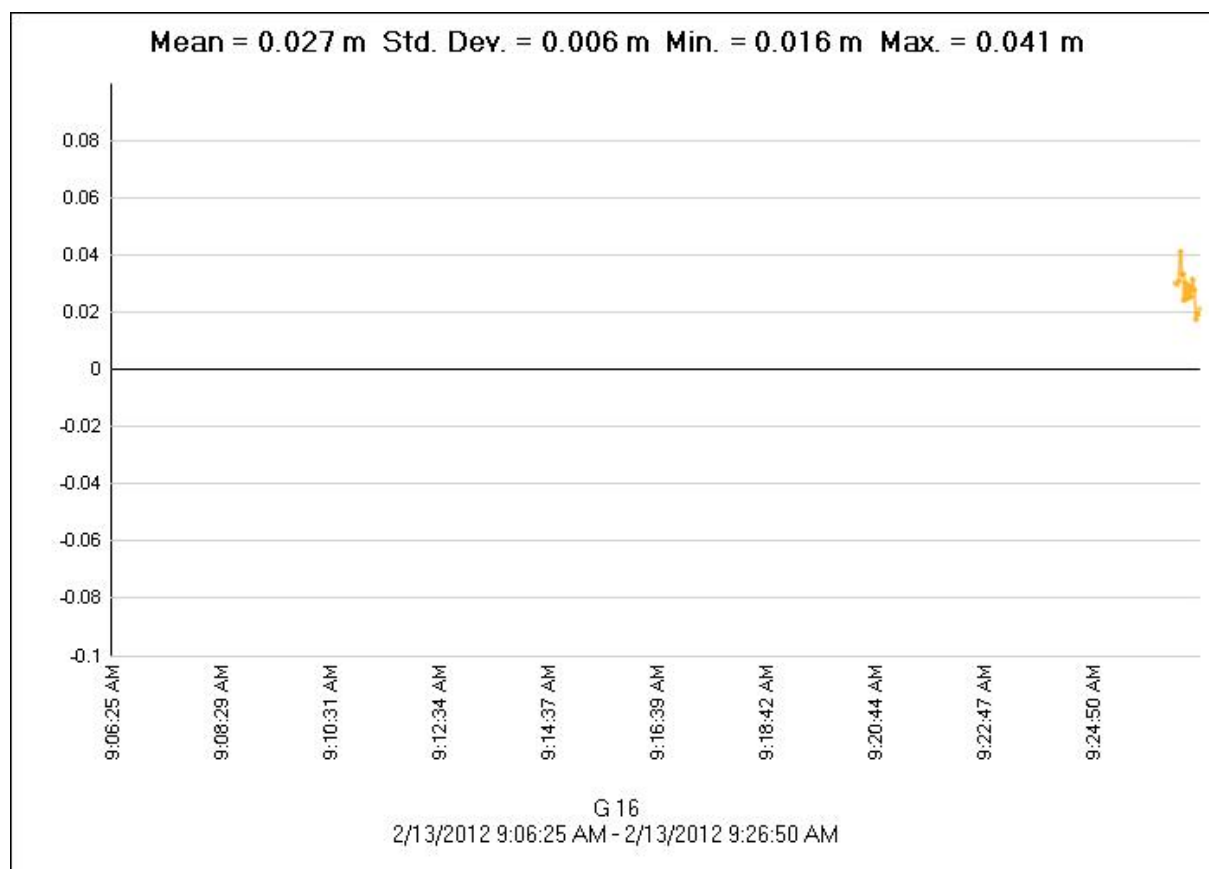
	From	To
Point ID:	JH0456	SVA02-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00080441.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

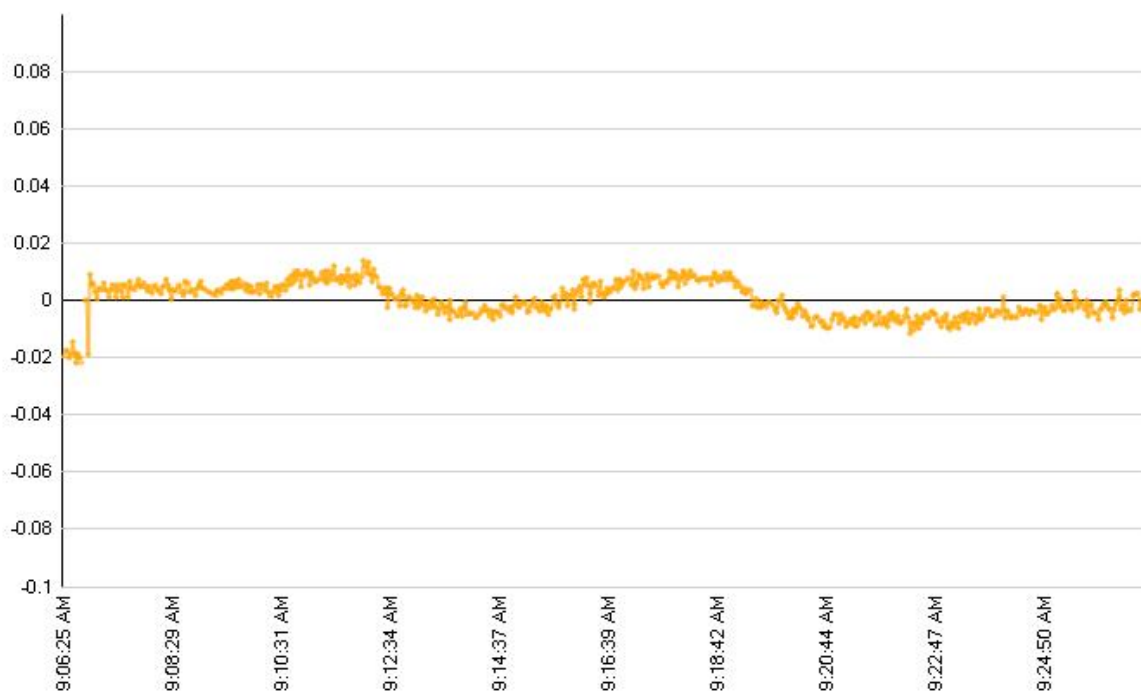
SV	2/13/2012 9:06:24 AM	Duration: 00:20:26	Major interval: 00:01:00	2/13/2012 9:26:50 AM
G 2	L1 L2			
G 5	L1 L2			
G 6	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 25	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

Residuals





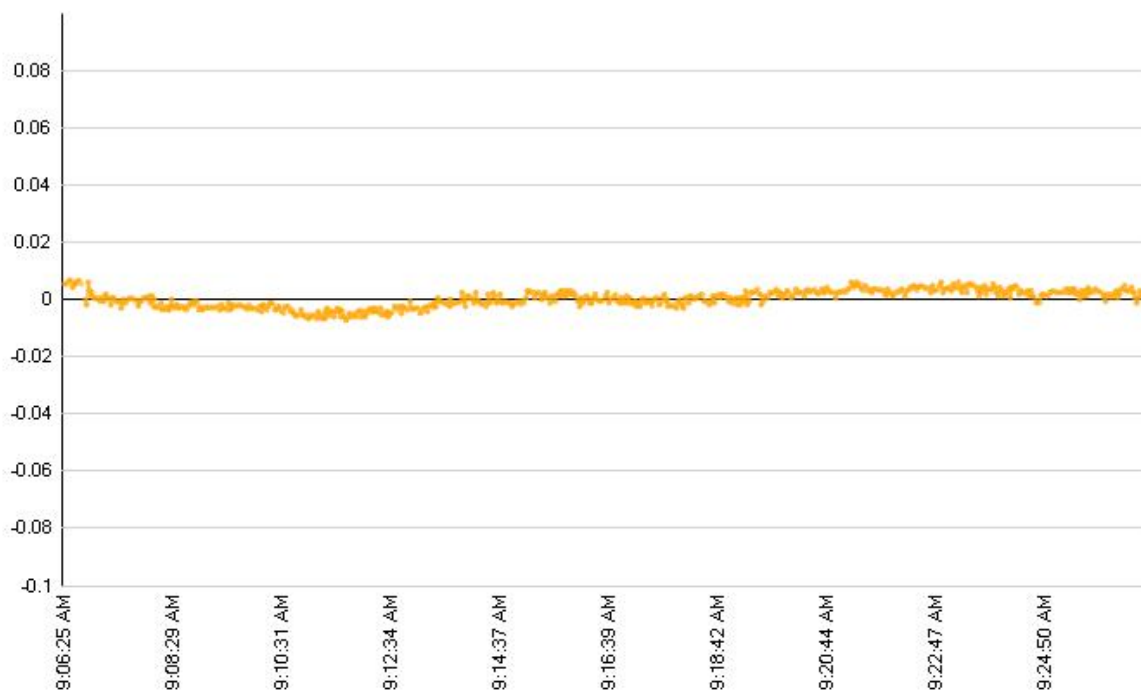
Mean = 0.000 m Std. Dev. = 0.006 m Min. = -0.022 m Max. = 0.014 m



G 21

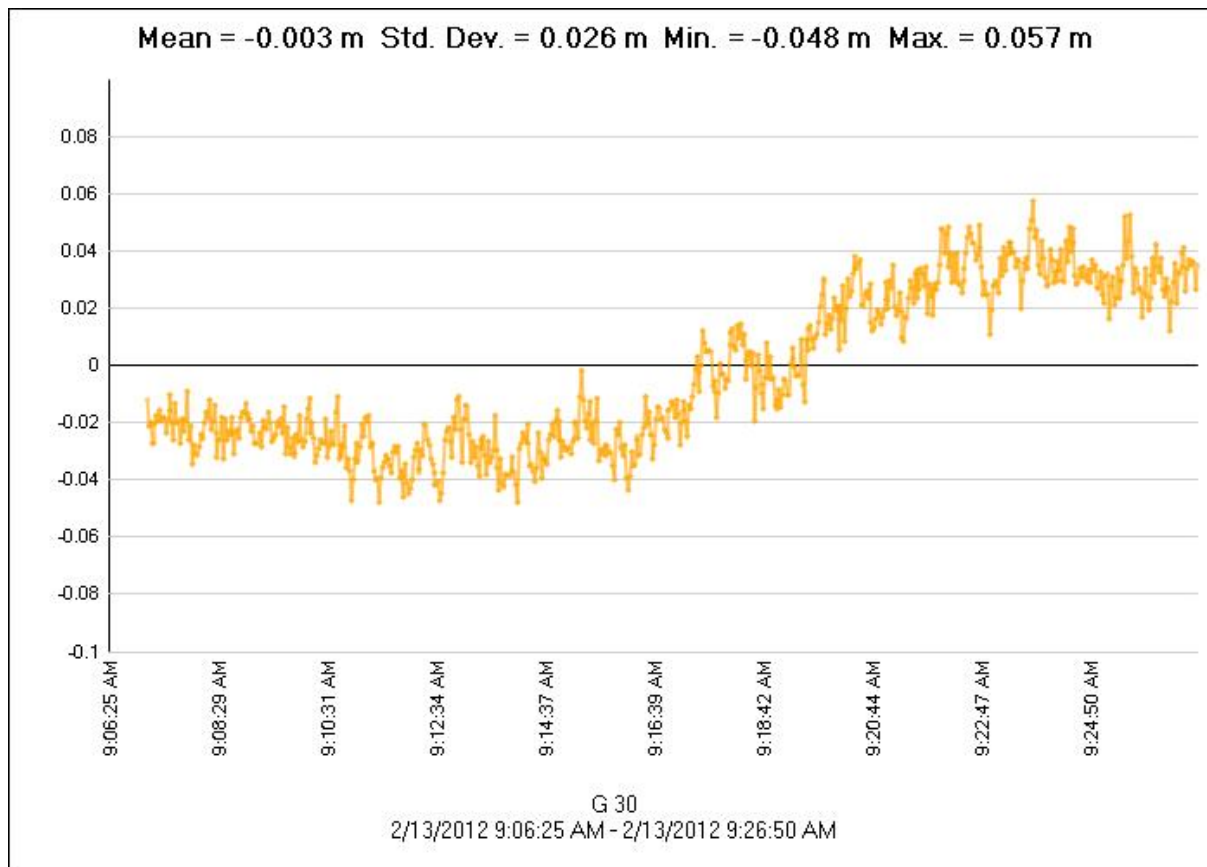
2/13/2012 9:06:25 AM - 2/13/2012 9:26:50 AM

Mean = 0.000 m Std. Dev. = 0.003 m Min. = -0.007 m Max. = 0.007 m



G 29



2/13/2012 9:06:25 AM - 2/13/2012 9:26:50 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA50-B2 (1:00:46 PM-1:26:39 PM) (S133)

Baseline observation: JH0456 --- FVA50-B2 (B133)

Processed: 3/21/2012 1:39:45 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.011 m

Vertical precision: 0.015 m

RMS: 0.002 m

Maximum PDOP: 1.914

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 1:00:46 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 1:26:39 PM (Local: UTC-7hr)

Processing duration: 00:25:53

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	FVA50-B2				
Grid		Local		Global	
Easting	346730.211 m	Latitude	N38°38'35.35430"	Latitude	N38°38'35.35430"
Northing	4278649.464 m	Longitude	W100°45'40.15301"	Longitude	W100°45'40.15301"
Elevation	903.577 m	Height	878.565 m	Height	878.565 m

Vector					
9Ughb[	11467.363 m	NS Fwd Azimuth	31°25'05"	L	13041.269 m
Bcfh\jb[	17934.168 m	Ellipsoid Dist.	21288.848 m	M	9039.580 m
9`Yj Uhcb	-8.061 m	<Y][\h	-8.156 m	N	14196.889 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.003 m	Point Type	0.007 m
Point ID	0.008 m	Point Description	0.008 m	Point Type	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000074512		
Y	0.0000009705	0.0000545187	
Z	-0.0000018173	-0.0000162066	0.0000207937

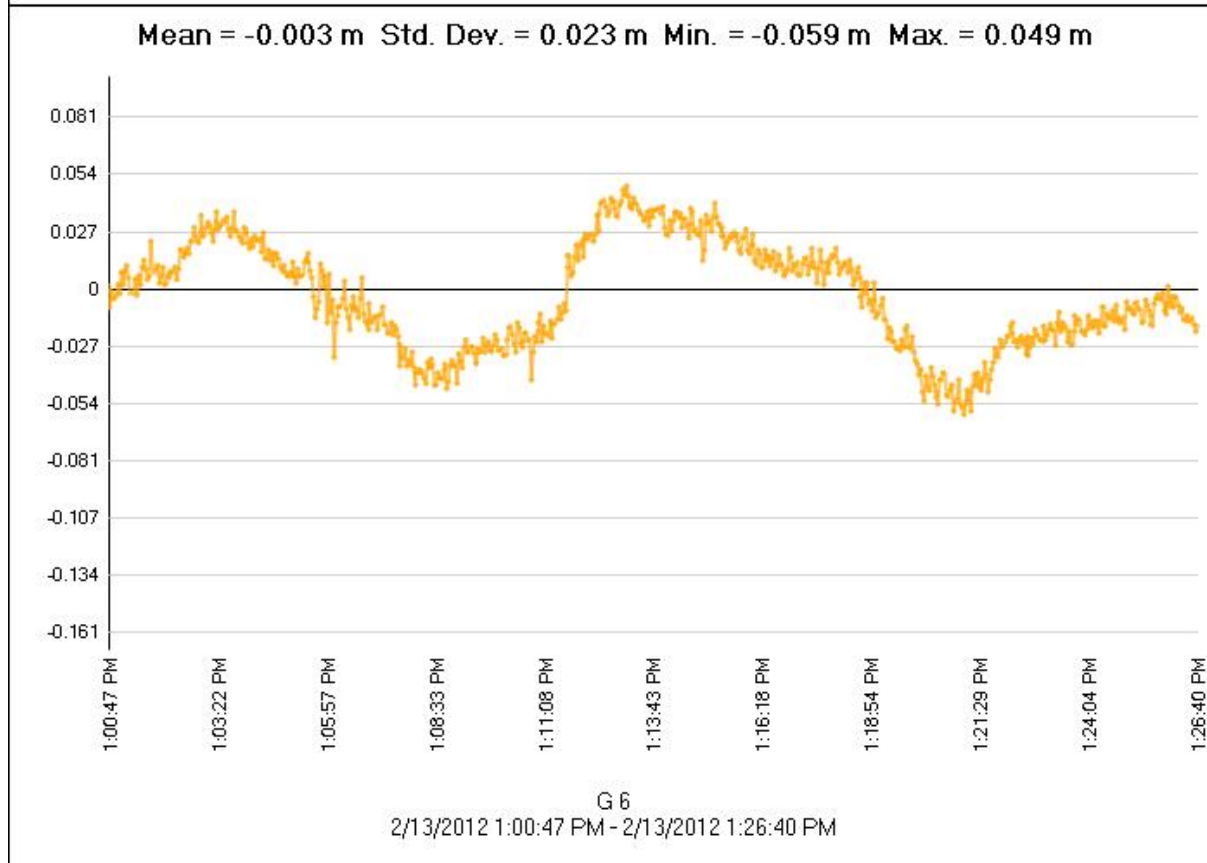
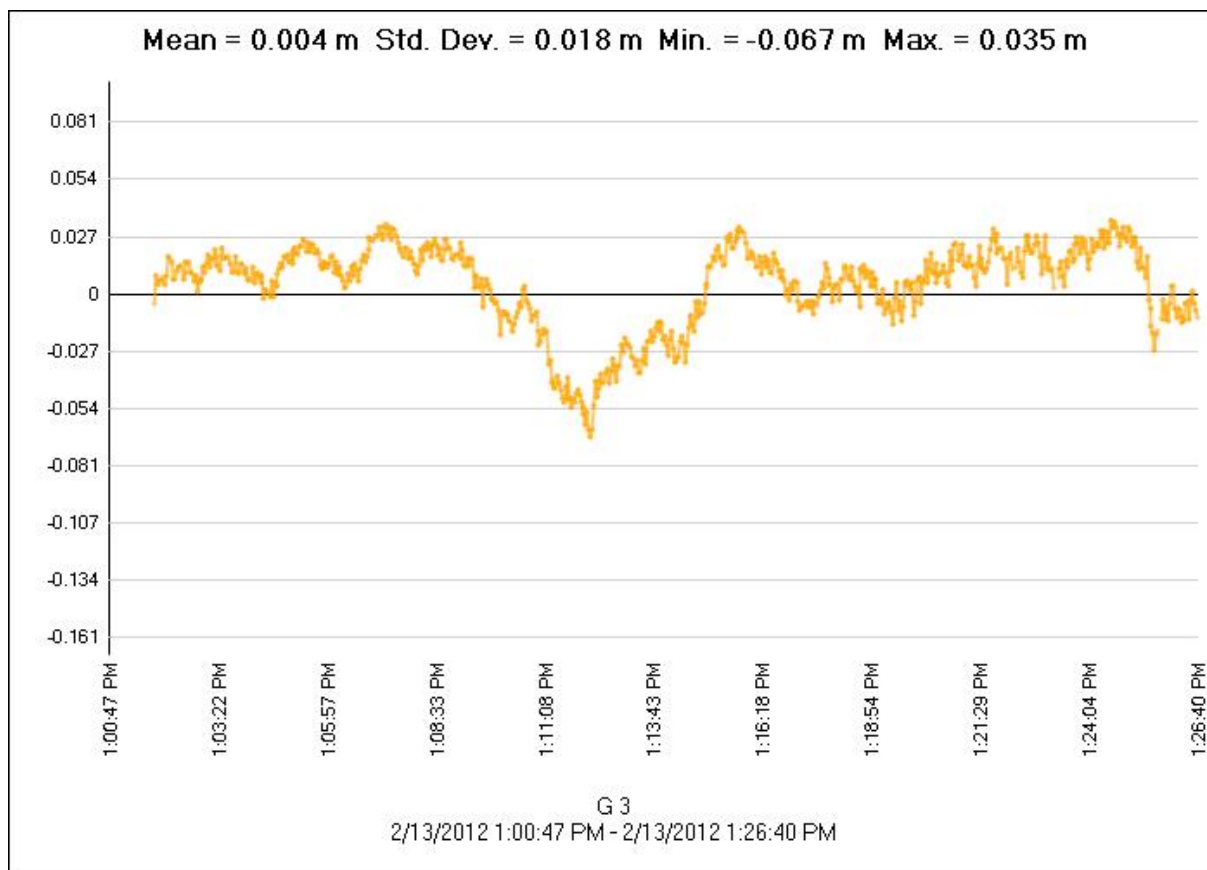
Occupations

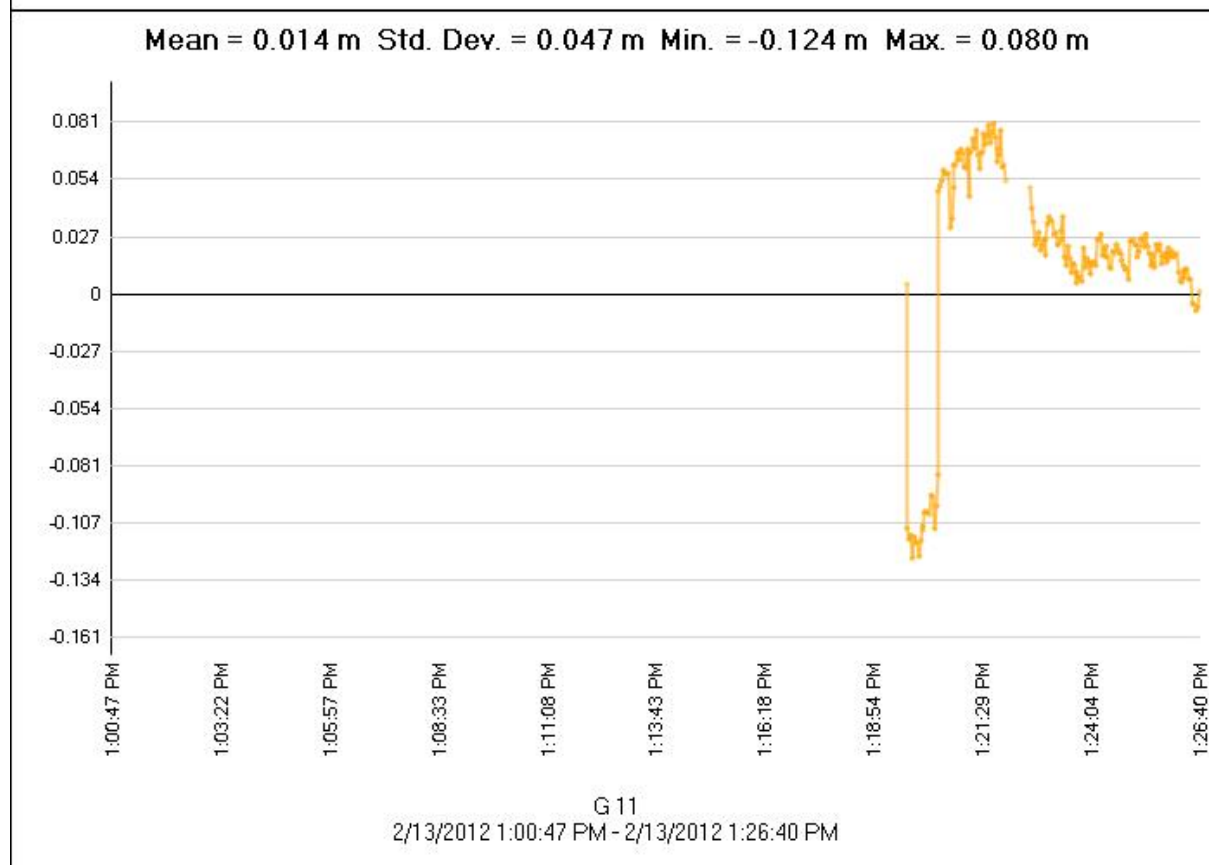
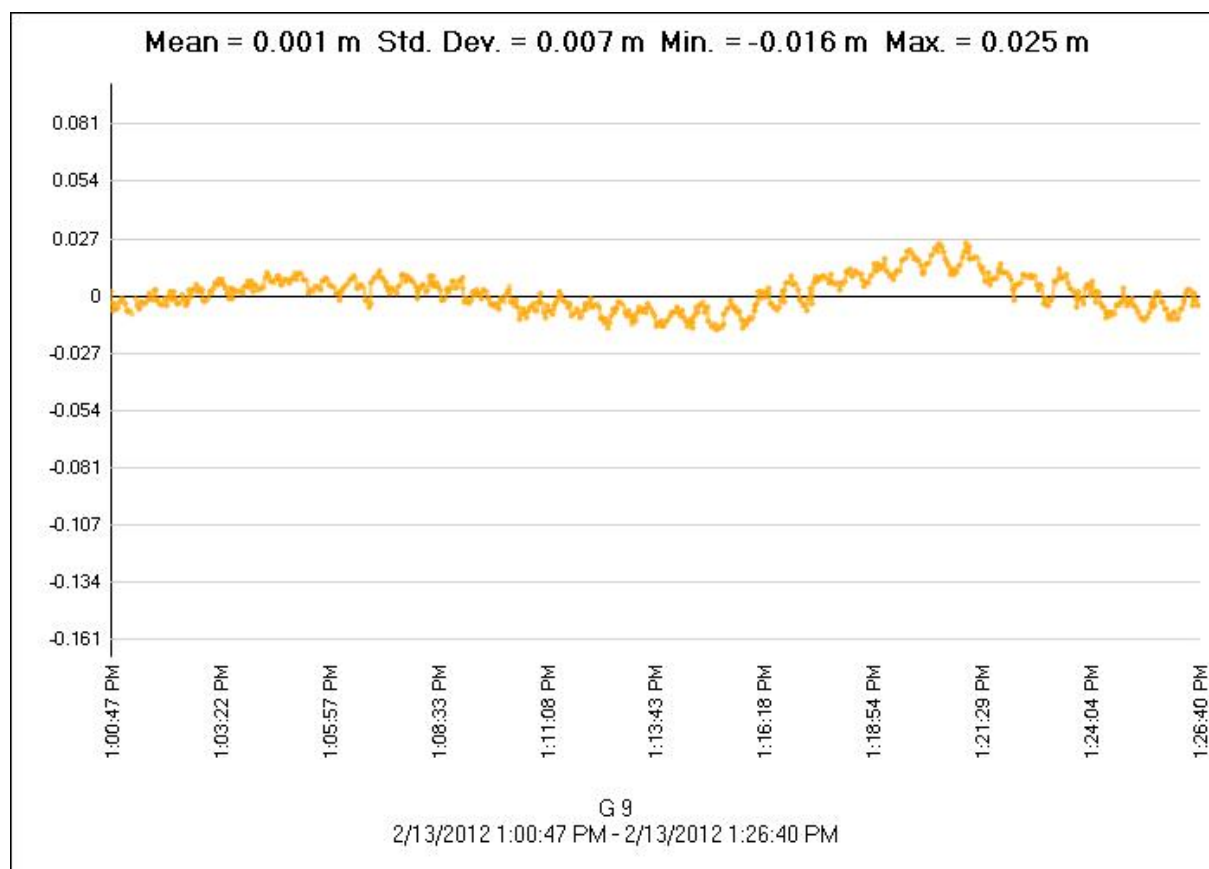
	From	To
Point ID:	JH0456	FVA50-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080442.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

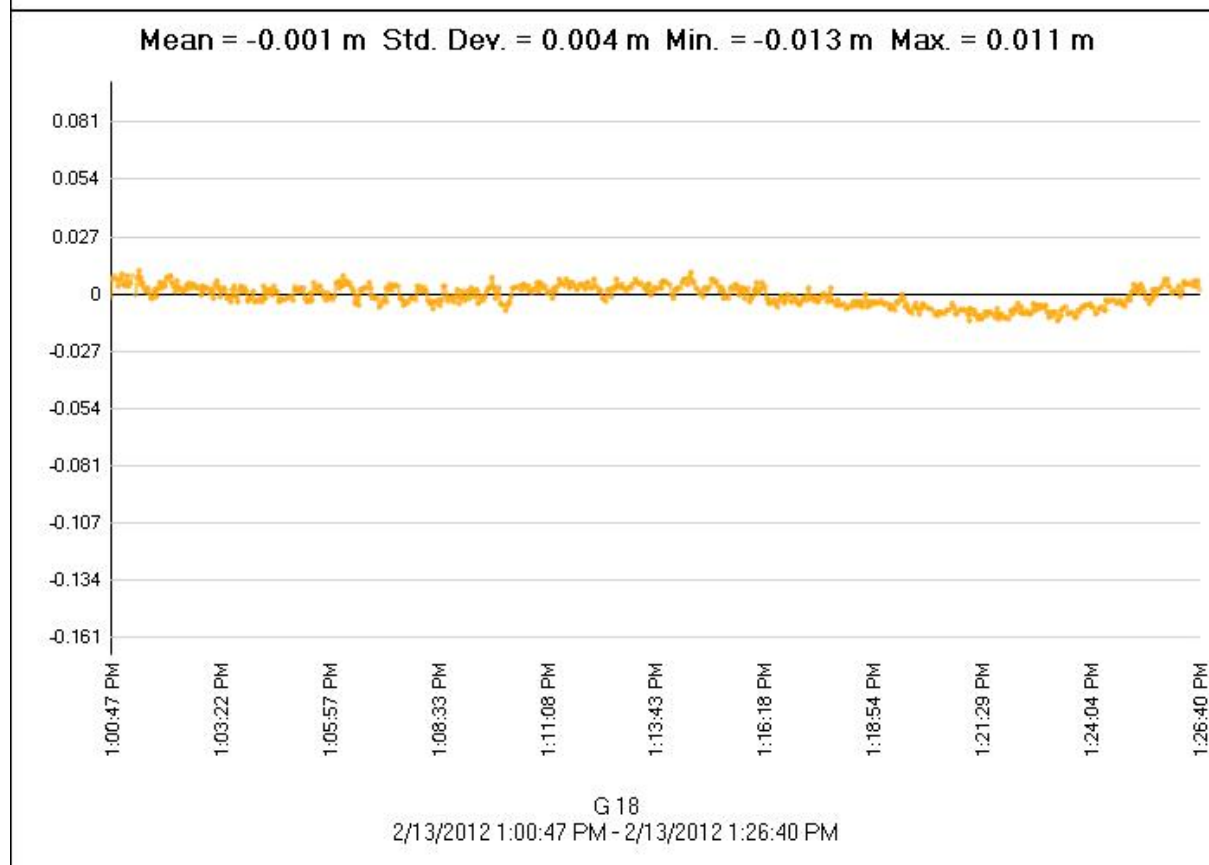
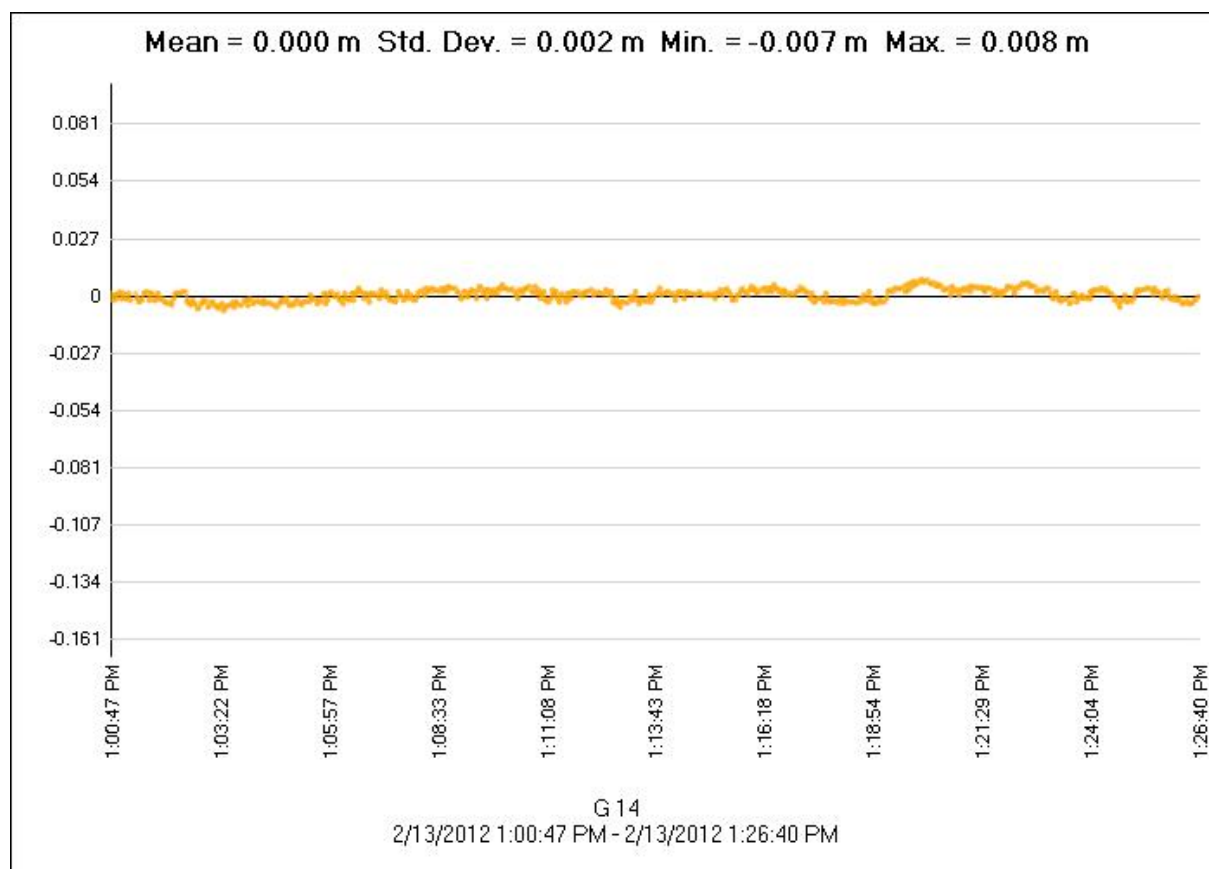
Tracking Summary

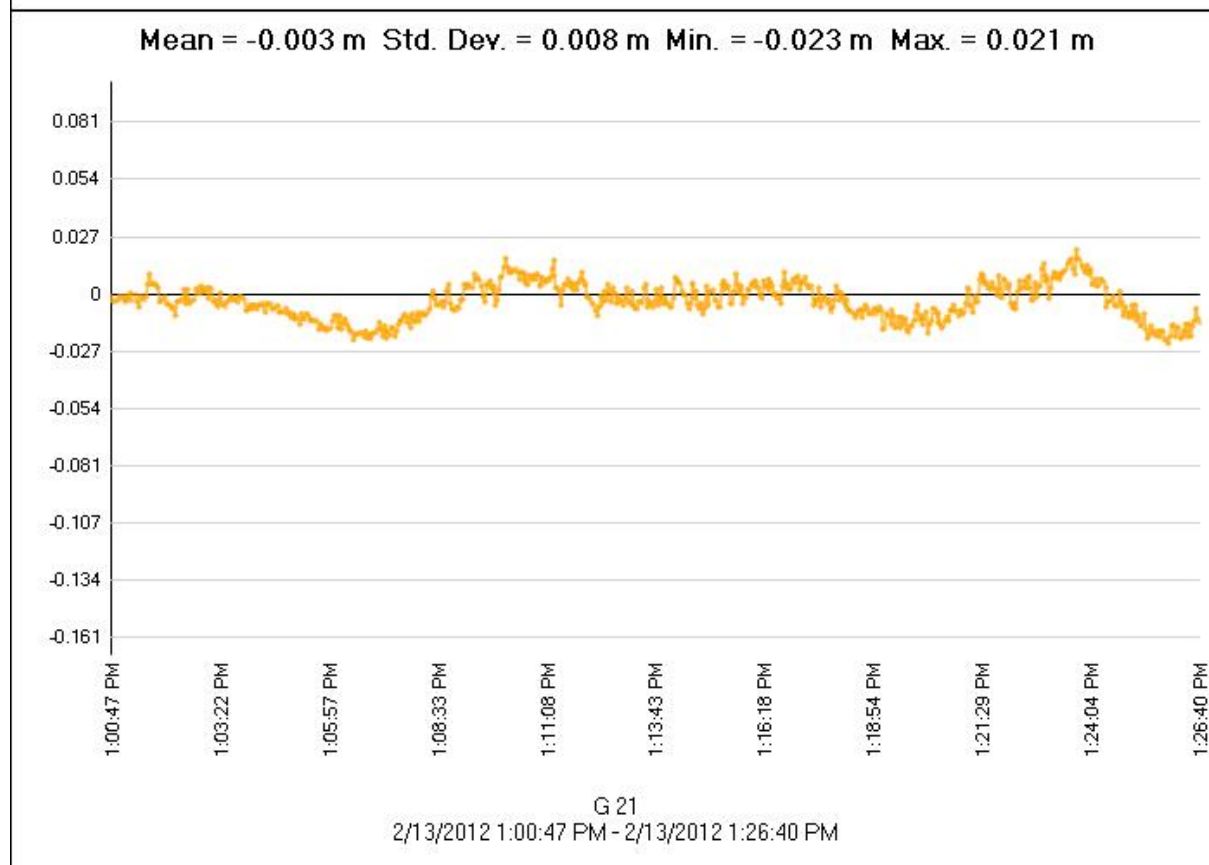
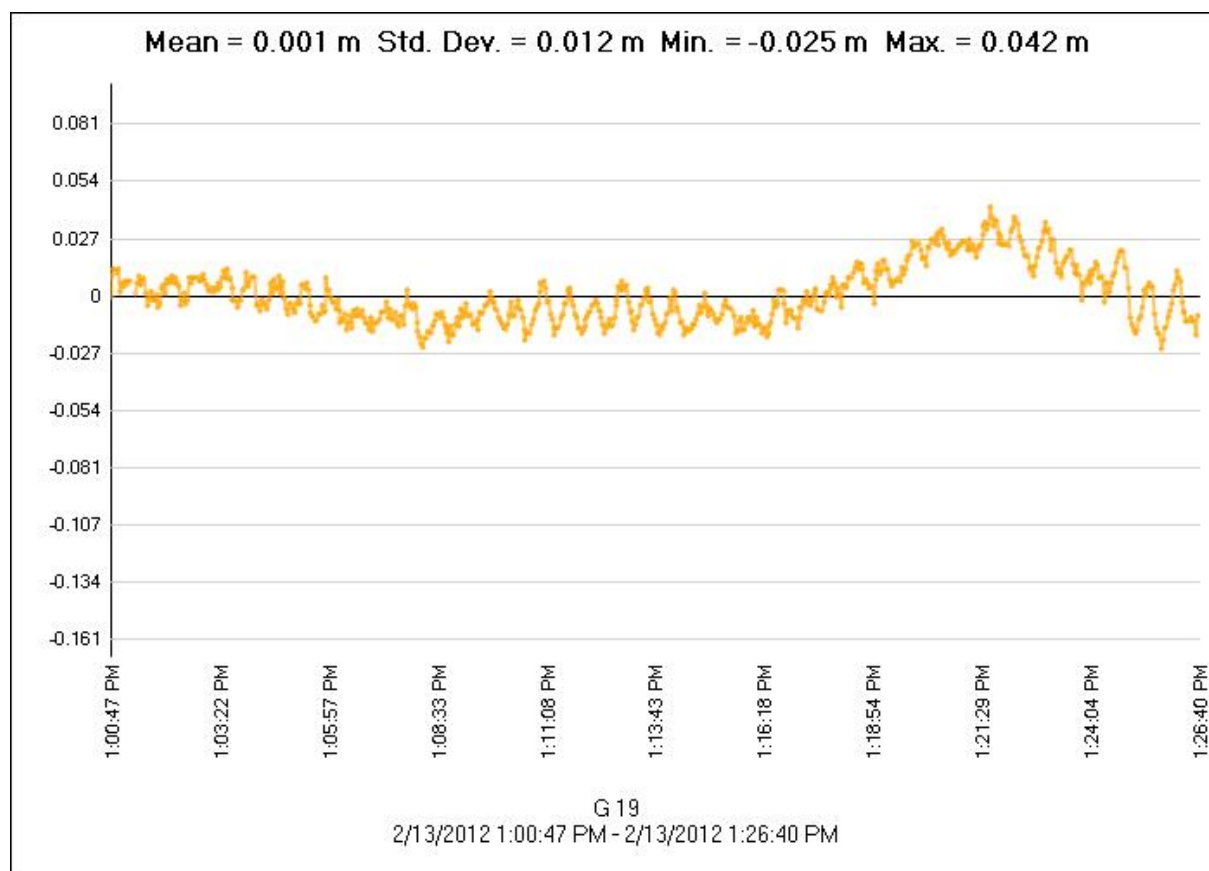


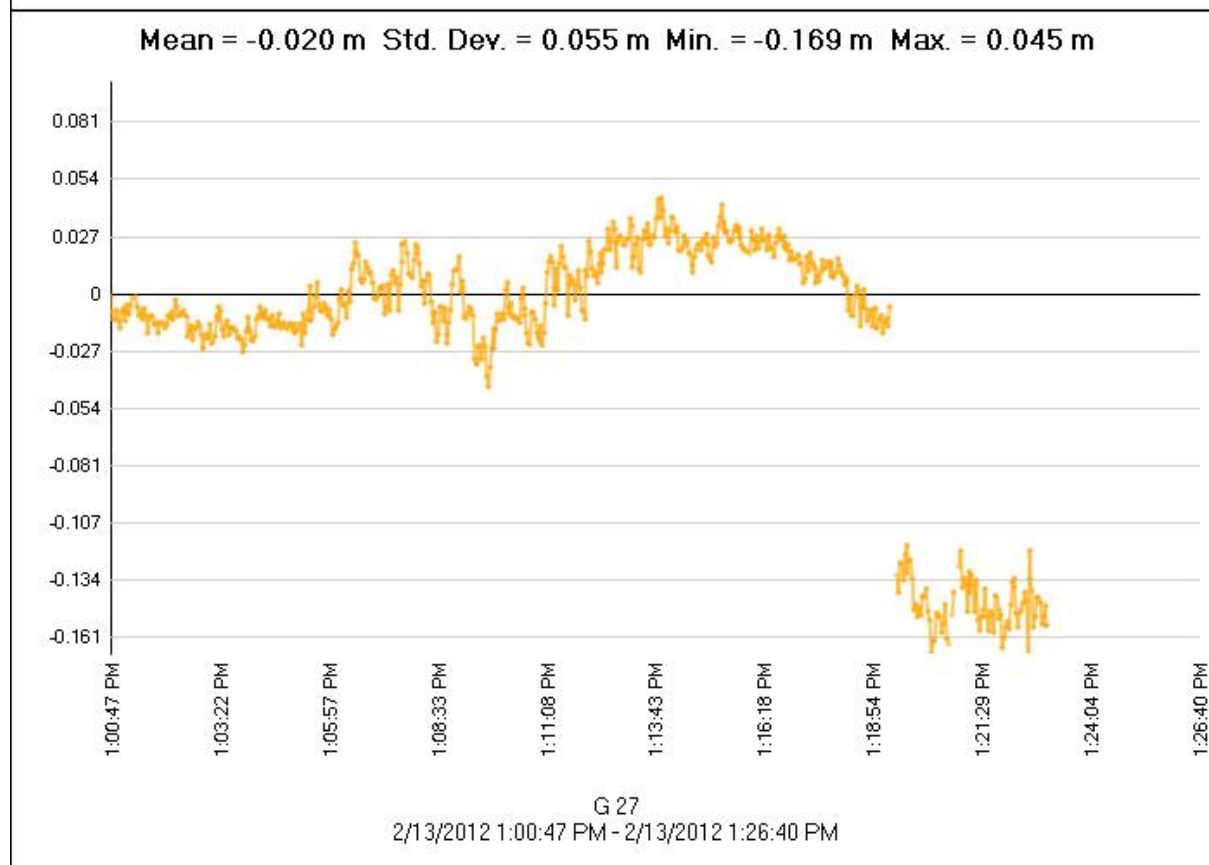
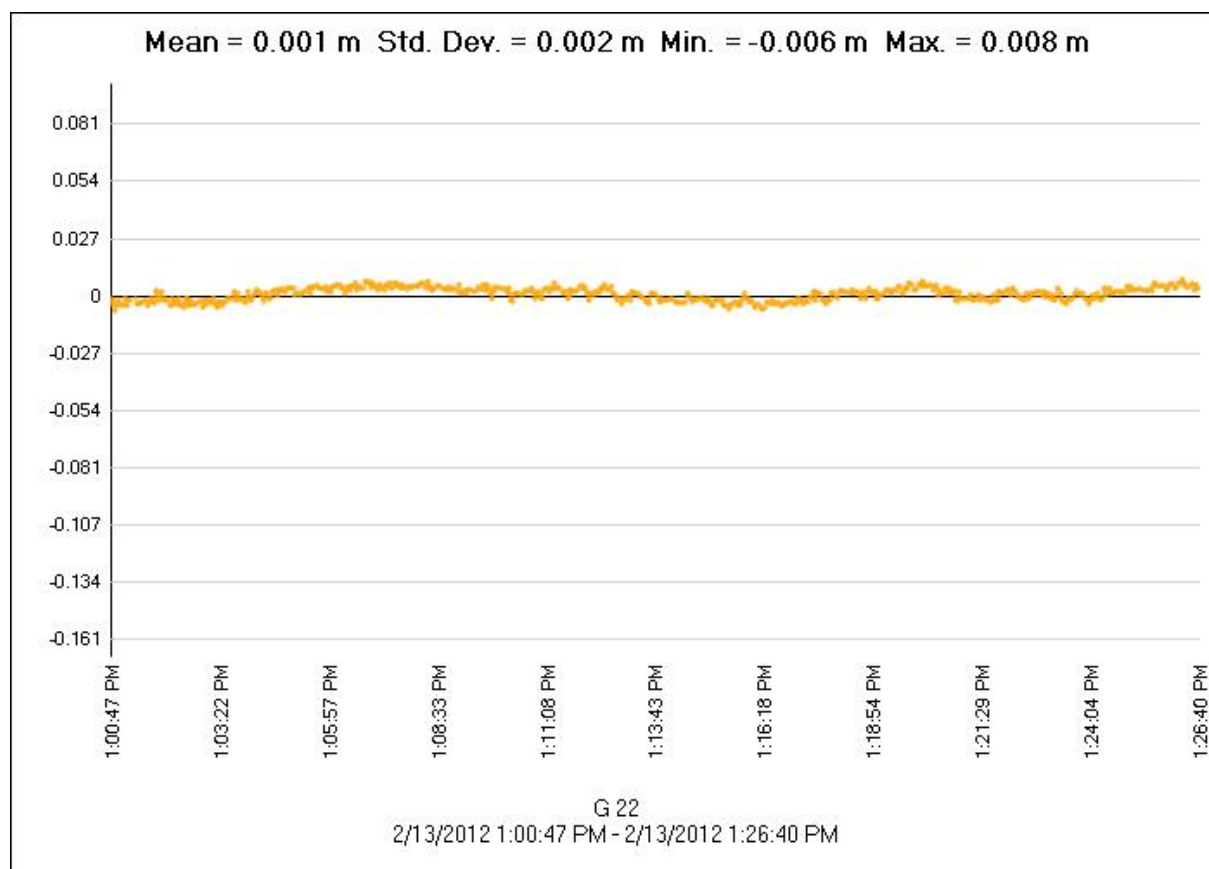
Residuals

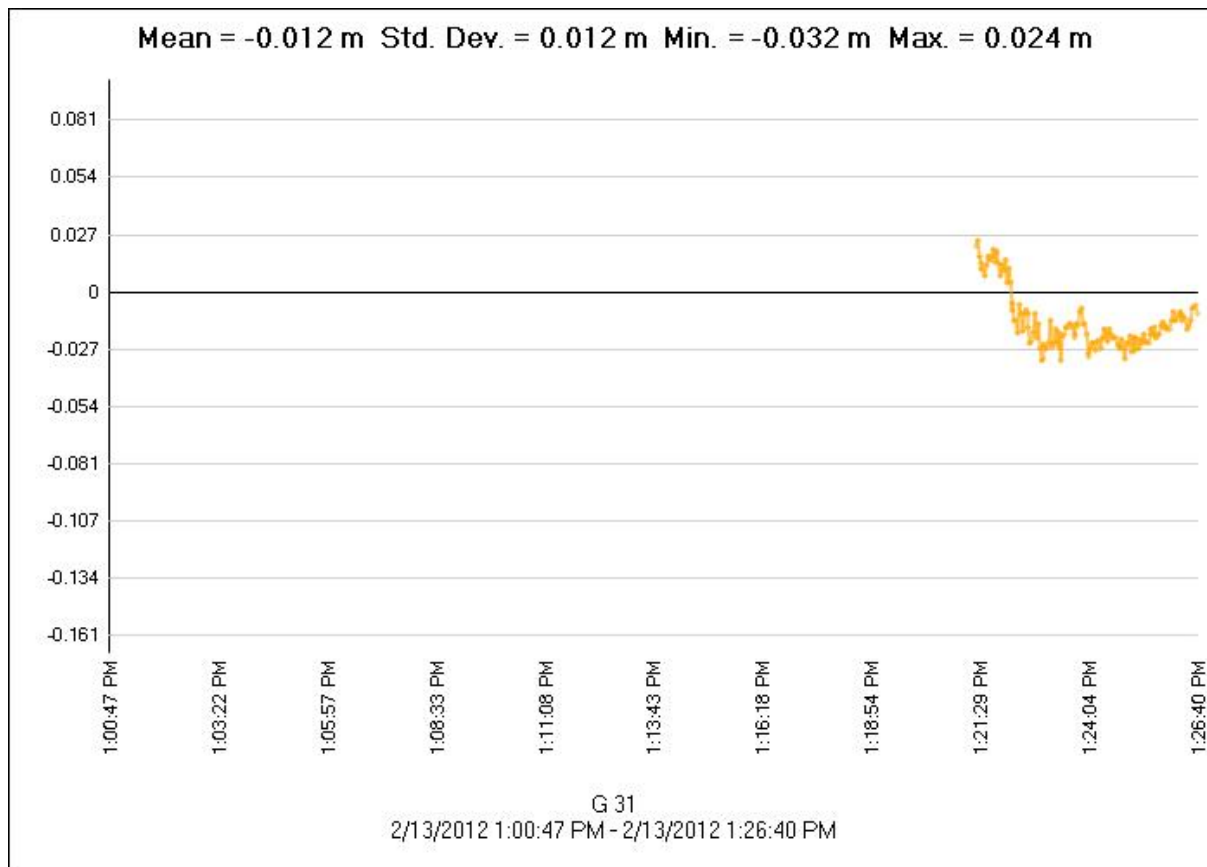












Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA17-B2 (2:17:32 PM-2:35:49 PM) (S134)

Baseline observation: JH0456 --- FVA17-B2 (B134)

Processed: 3/21/2012 1:39:31 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.021 m

Vertical precision: 0.026 m

RMS: 0.003 m

Maximum PDOP: 1.782

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 2:17:32 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 2:35:49 PM (Local: UTC-7hr)

Processing duration: 00:18:17

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	FVA17-B2				
Grid		Local		Global	
Easting	354943.759 m	Latitude	N38°39'16.70432"	Latitude	N38°39'16.70431"
Northing	4279771.075 m	Longitude	W100°40'01.37190"	Longitude	W100°40'01.37190"
Elevation	886.366 m	Height	861.218 m	Height	861.218 m

Vector					
9Ughb[	19680.912 m	NS Fwd Azimuth	44°44'49"	L	21242.322 m
Bcfh\jb[	19055.779 m	Ellipsoid Dist.	27397.396 m	M	8312.247 m
9`Yj Uhcb	-25.272 m	<Y][\h	-25.503 m	N	15181.996 m

Standard Errors

Vector errors:					
Point ID	0.008 m	Point Description	0°00'00"	Point Type	0.010 m
Point ID	0.006 m	Point Description	0.009 m	Point Type	0.011 m
Point ID	0.014 m	Point Description	0.014 m	Point Type	0.008 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000909261		
Y	0.0000916032	0.0001273144	
Z	-0.0000407568	-0.0000564370	0.0000591894

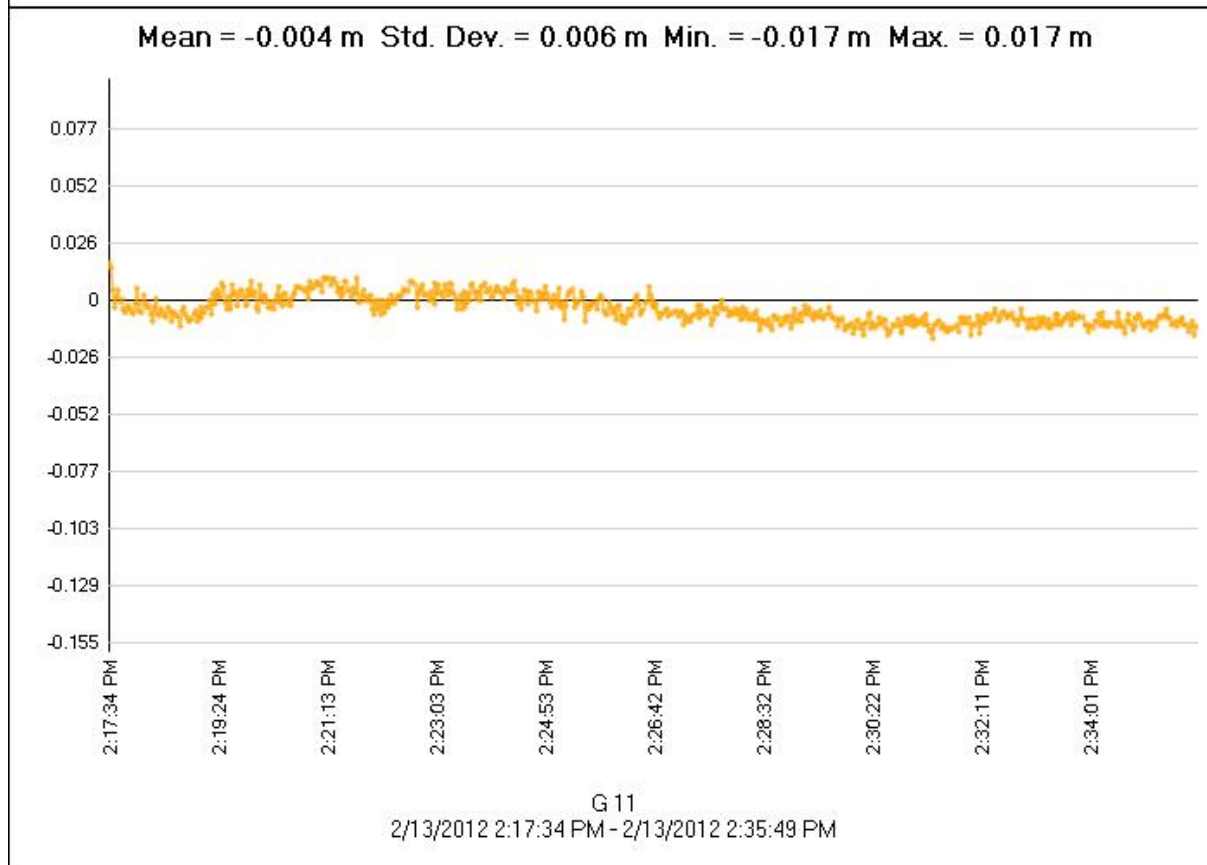
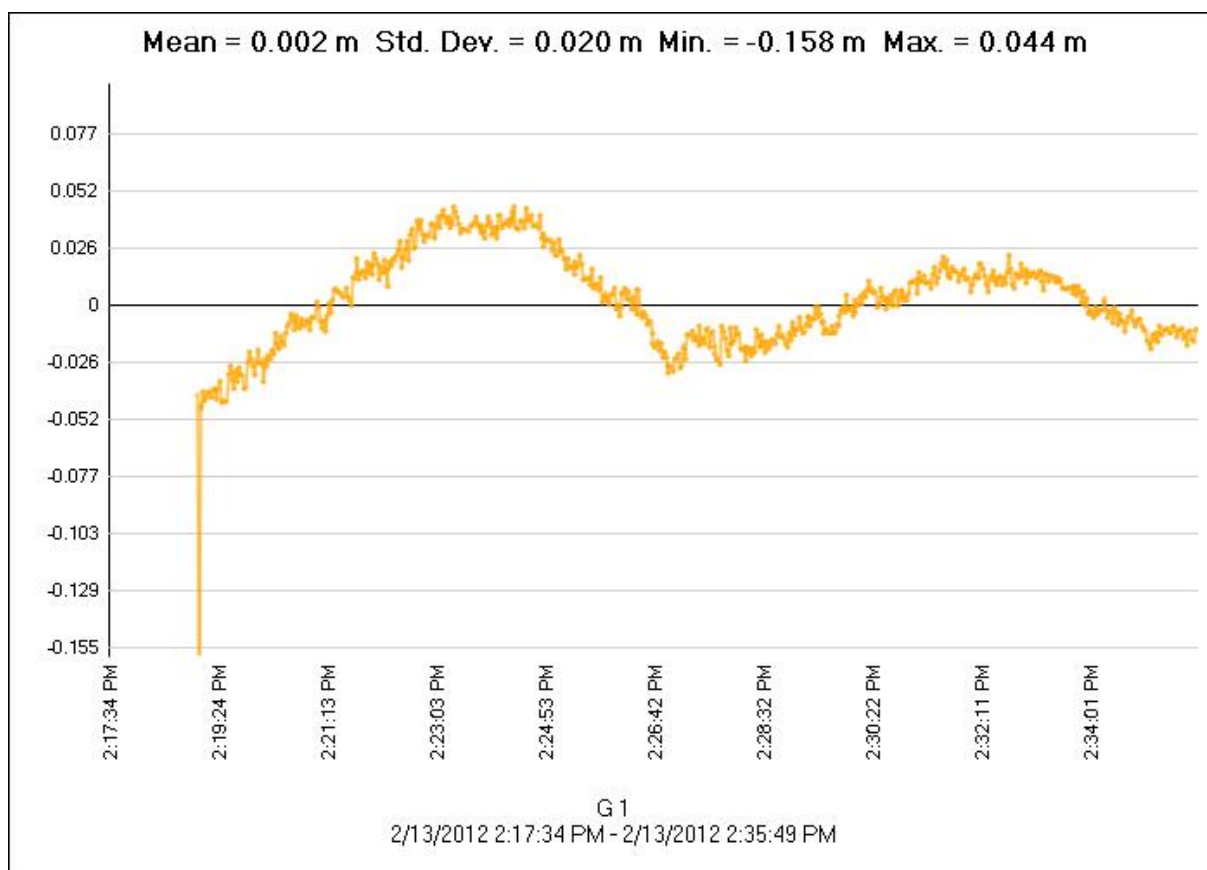
Occupations

	From	To
Point ID:	JH0456	FVA17-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080443.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

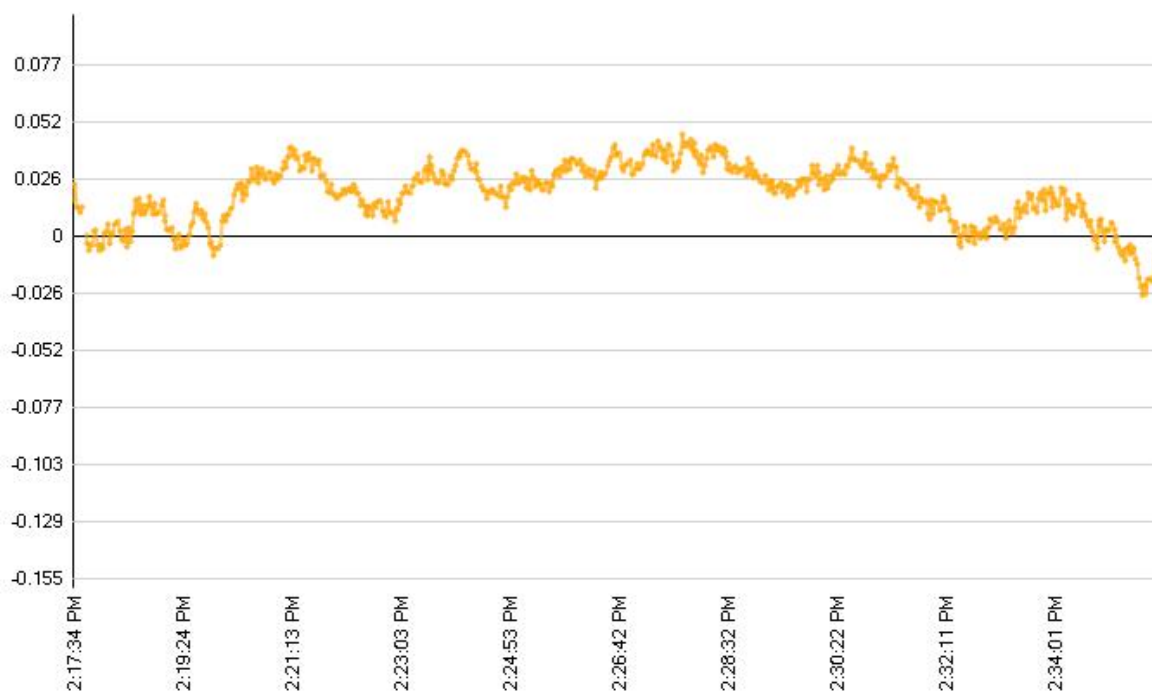
Tracking Summary

SV	2/13/2012 2:17:32 PM	Duration: 00:18:17 Major interval: 00:01:00	2/13/2012 2:35:49 PM
G1	L1 L2		
G9	L1 L2		
G11	L1 L2		
G12	L1 L2		
G14	L1 L2		
G18	L1 L2		
G19	L1 L2		
G21			
G22	L1 L2		
G25	L1 L2		
G31	L1 L2		
G32	L1 L2		

Residuals

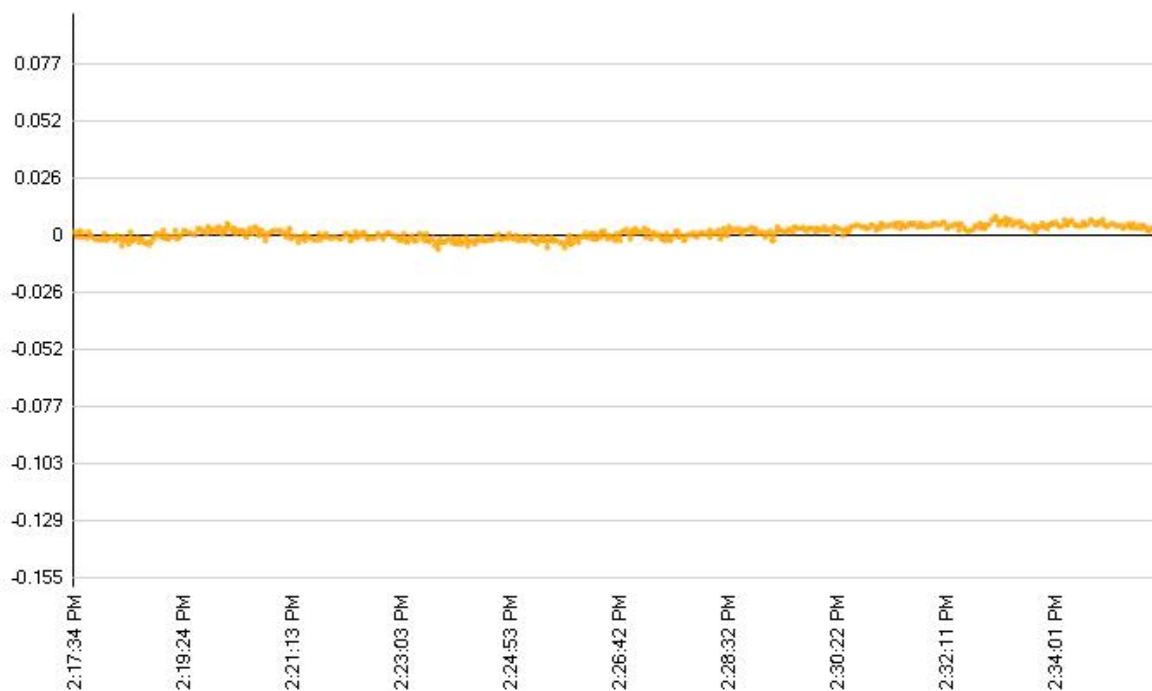


Mean = 0.019 m Std. Dev. = 0.013 m Min. = -0.026 m Max. = 0.046 m



G 12
2/13/2012 2:17:34 PM - 2/13/2012 2:35:49 PM

Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.006 m Max. = 0.008 m



G 14
2/13/2012 2:17:34 PM - 2/13/2012 2:35:49 PM

Mean = 0.000 m Std. Dev. = 0.012 m Min. = -0.026 m Max. = 0.030 m



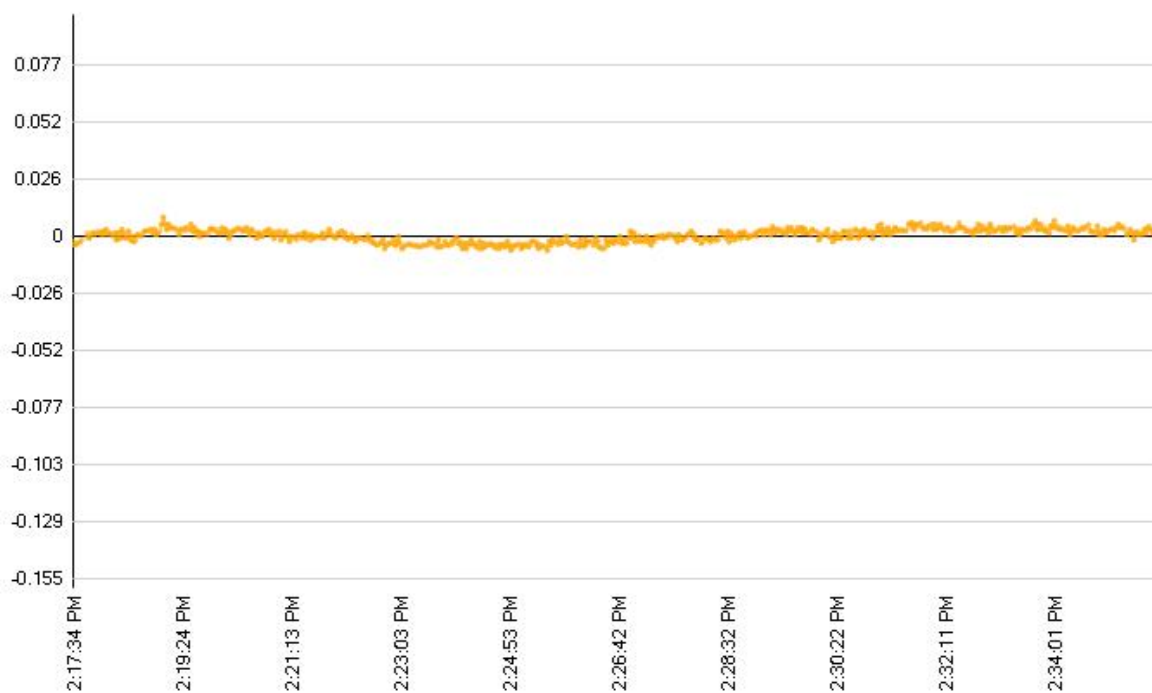
G 18
2/13/2012 2:17:34 PM - 2/13/2012 2:35:49 PM

Mean = 0.013 m Std. Dev. = 0.032 m Min. = -0.056 m Max. = 0.058 m



G 19
2/13/2012 2:17:34 PM - 2/13/2012 2:35:49 PM

Mean = 0.000 m Std. Dev. = 0.003 m Min. = -0.006 m Max. = 0.009 m

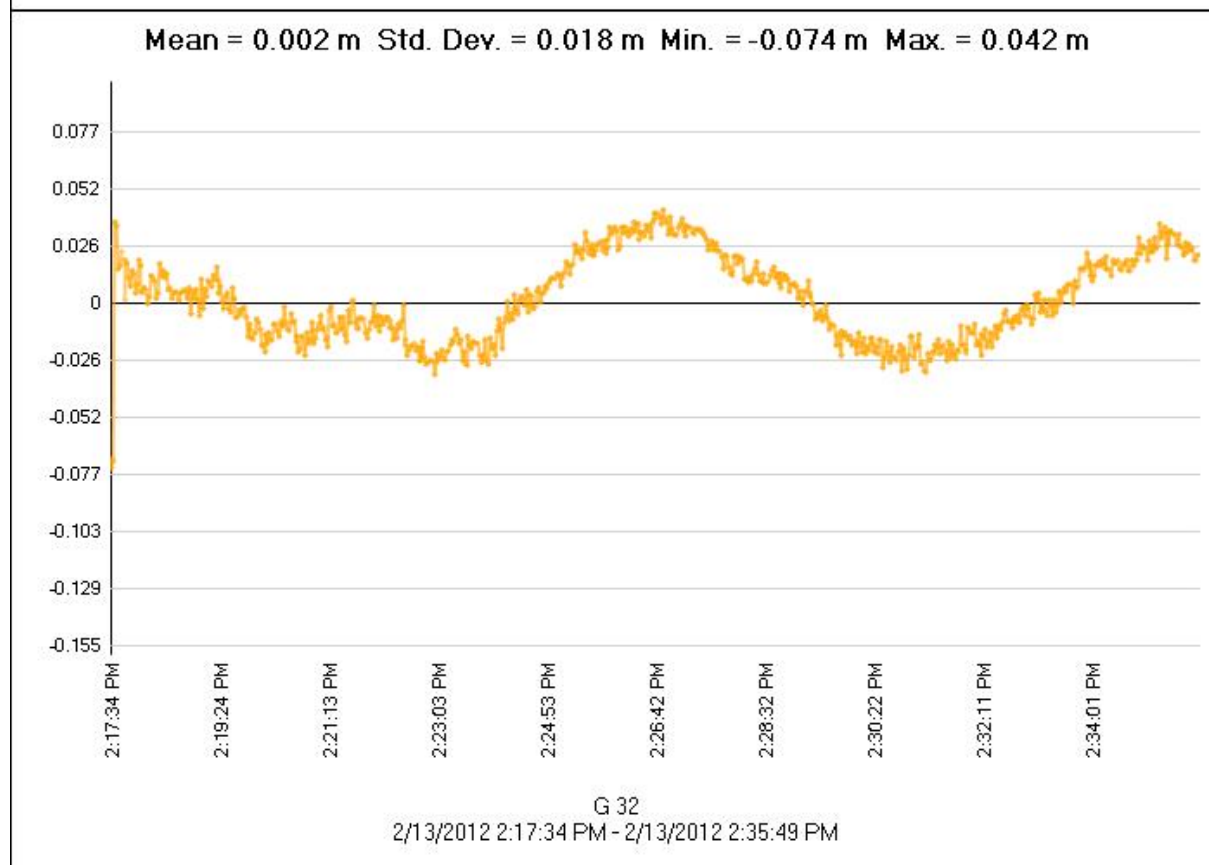
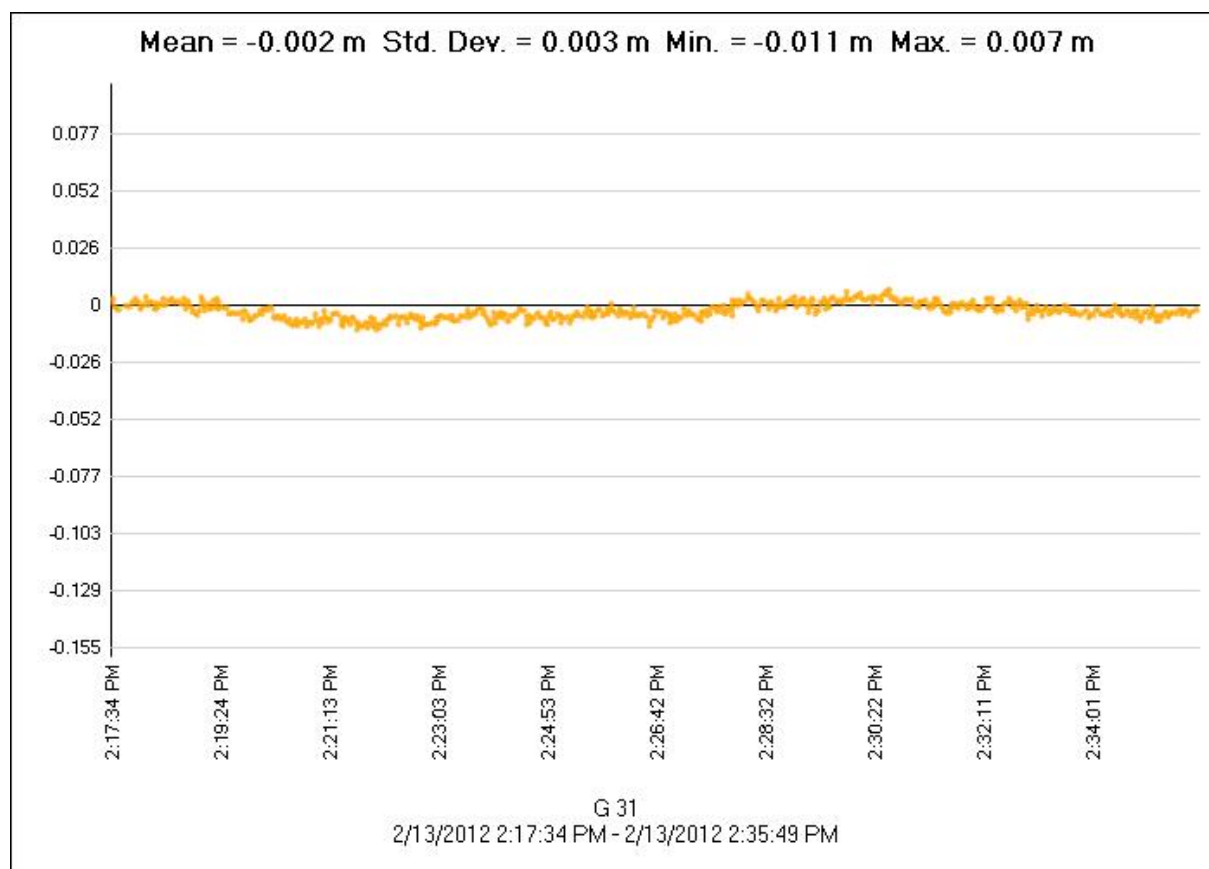


G 22
2/13/2012 2:17:34 PM - 2/13/2012 2:35:49 PM

Mean = -0.013 m Std. Dev. = 0.020 m Min. = -0.050 m Max. = 0.033 m



G 25
2/13/2012 2:17:34 PM - 2/13/2012 2:35:49 PM



Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA04-B2 (3:24:54 PM-3:45:19 PM) (S135)

Baseline observation: JH0456 --- SVA04-B2 (B135)

Processed: 3/21/2012 1:39:43 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.016 m

Vertical precision: 0.024 m

RMS: 0.003 m

Maximum PDOP: 2.325

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 3:24:54 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 3:45:19 PM (Local: UTC-7hr)

Processing duration: 00:20:25

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA04-B2				
Grid		Local		Global	
Easting	337275.857 m	Latitude	N38°41'57.79105"	Latitude	N38°41'57.79104"
Northing	4285079.755 m	Longitude	W100°52'16.48105"	Longitude	W100°52'16.48105"
Elevation	926.580 m	Height	901.766 m	Height	901.766 m

Vector					
9Ughb[	2013.009 m	NS Fwd Azimuth	3°32'41"	L	4358.071 m
Bcfh\jb[	24364.459 m	Ellipsoid Dist.	24449.184 m	M	14651.715 m
9`Yj Uhcb	14.942 m	<Y][\h	15.045 m	N	19085.718 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point Description	0°00'00"	Point Type	0.004 m
Point ID	0.007 m	Point Description	0.007 m	Point Type	0.009 m
Point ID	0.012 m	Point Description	0.012 m	Point Type	0.011 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000184438		
Y	0.0000140155	0.0000733381	
Z	-0.0000098613	-0.0000602208	0.0001209210

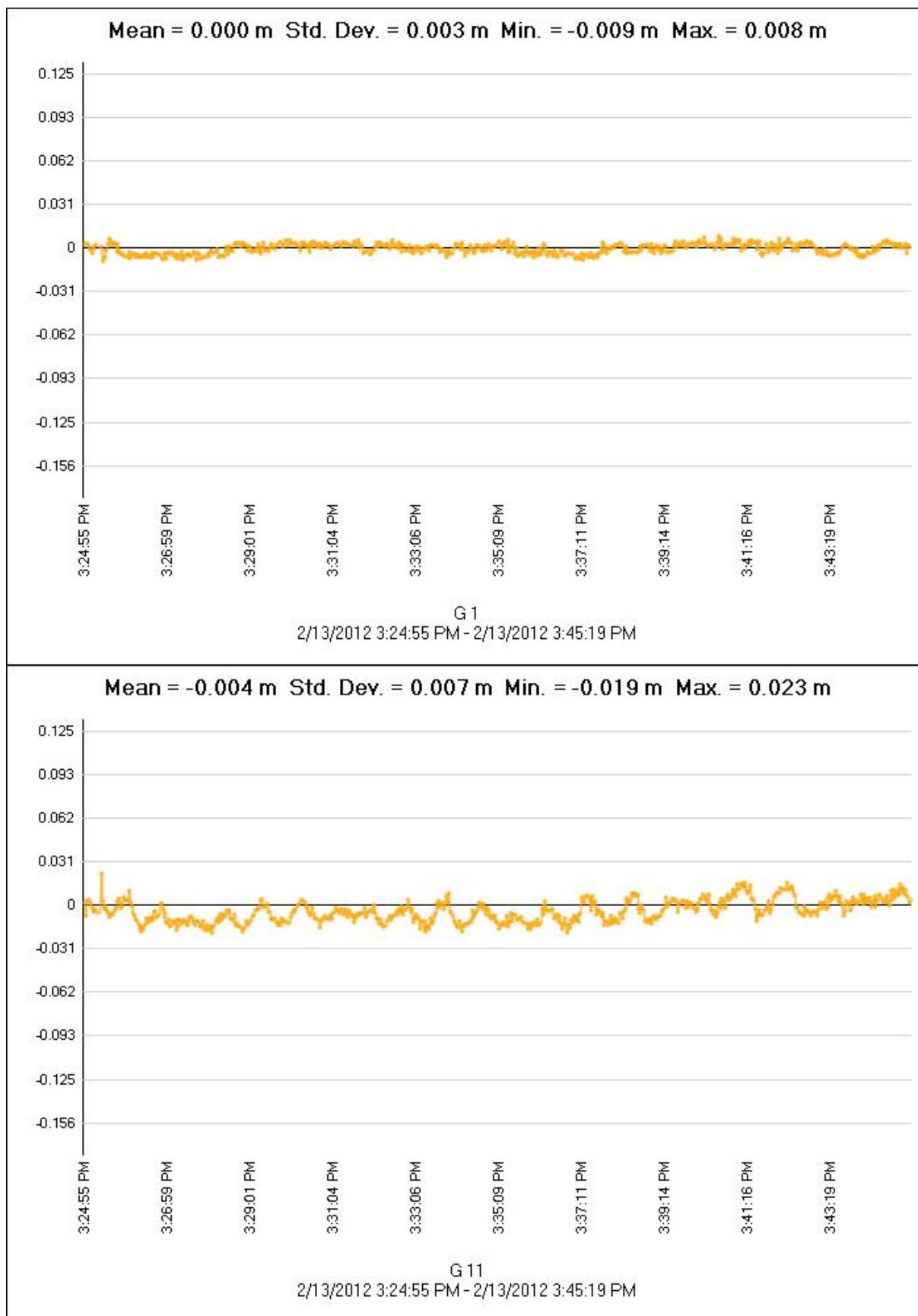
Occupations

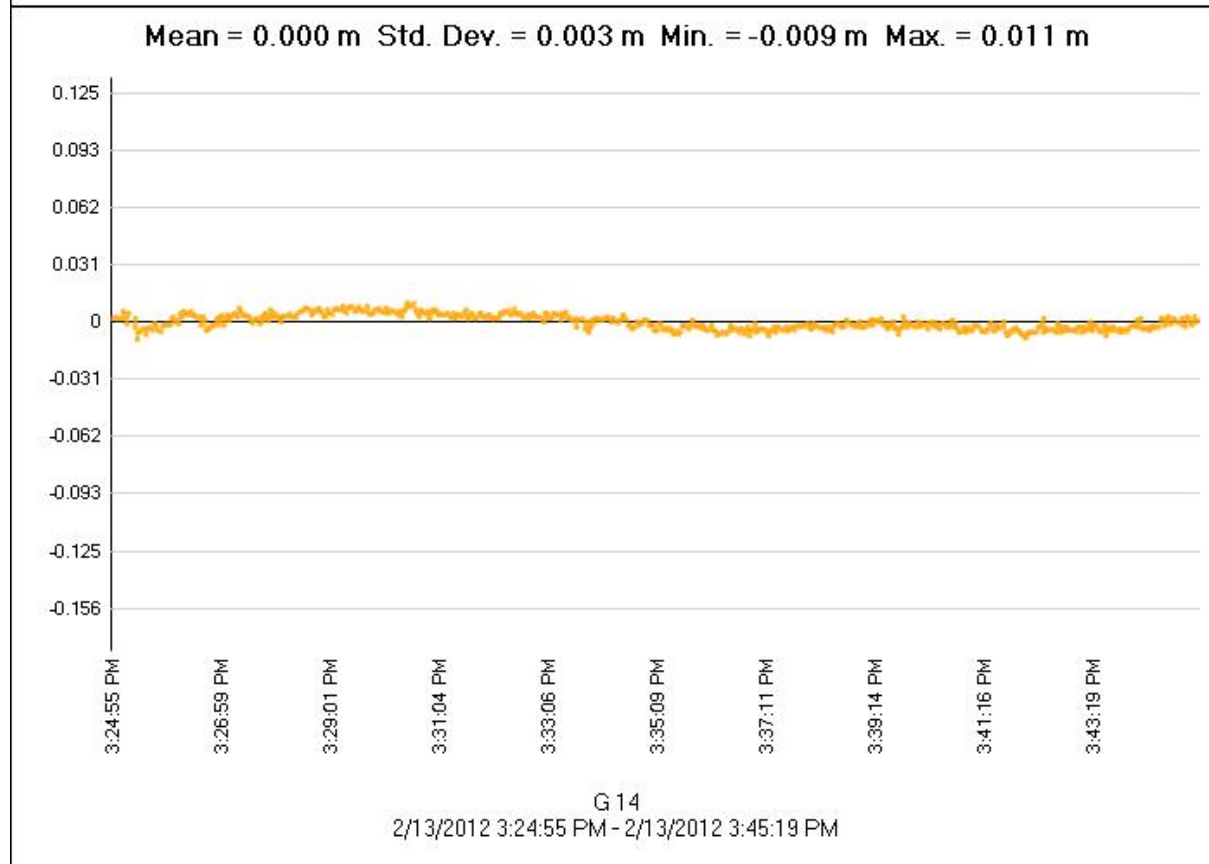
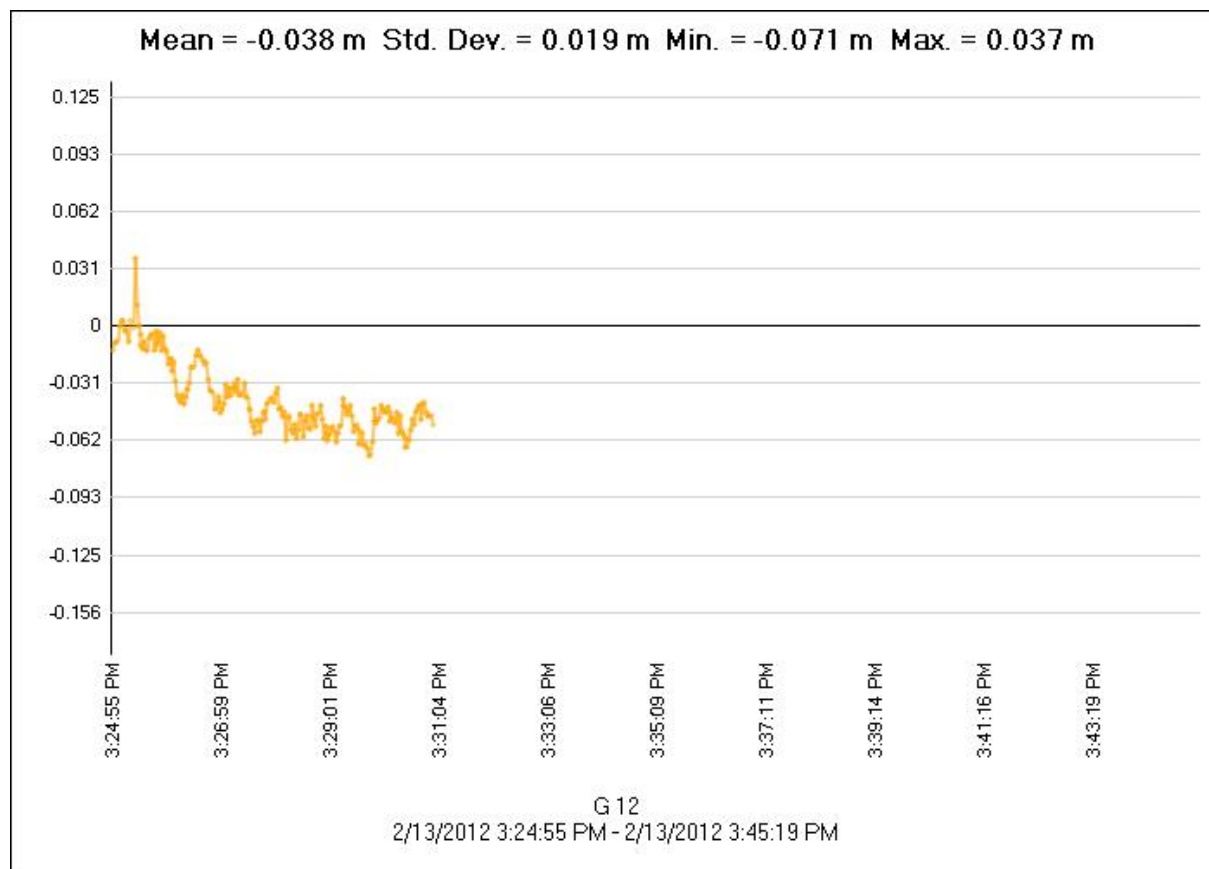
	From	To
Point ID:	JH0456	SVA04-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080444.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

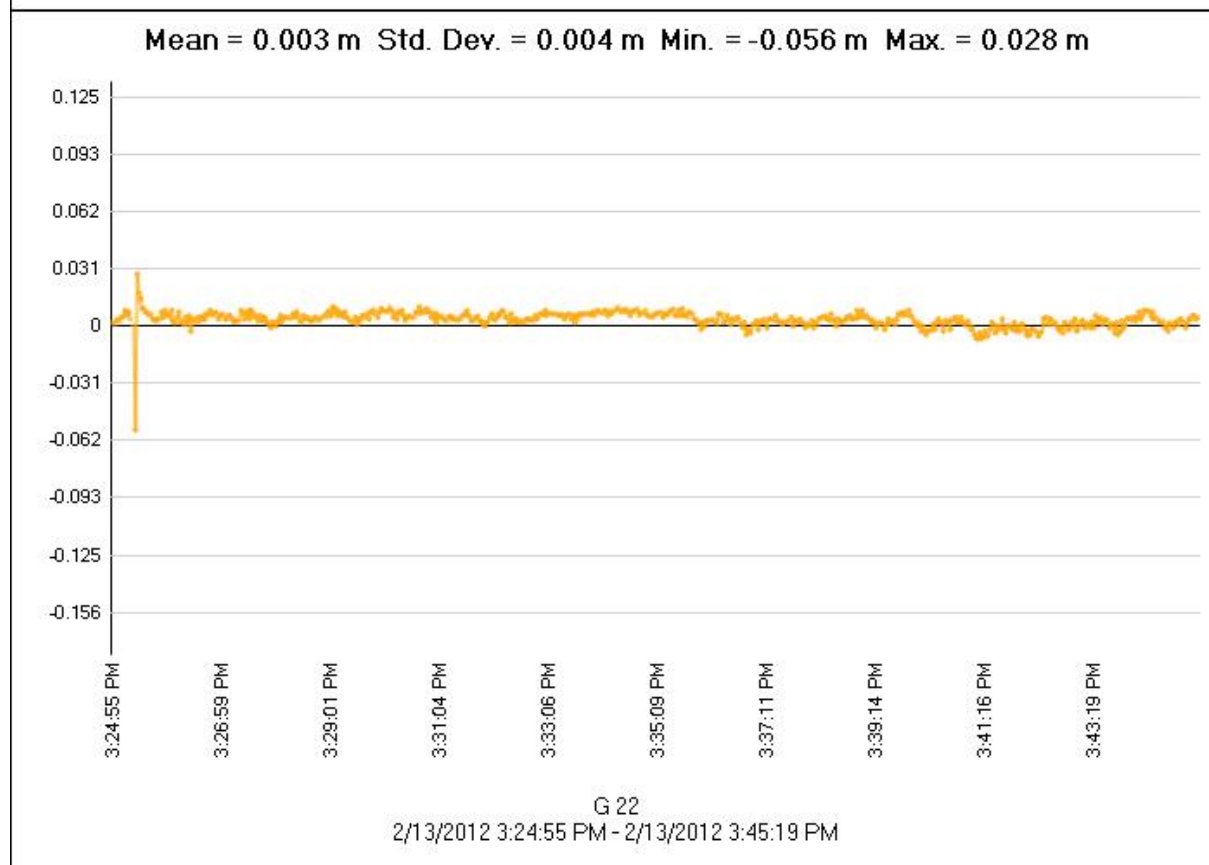
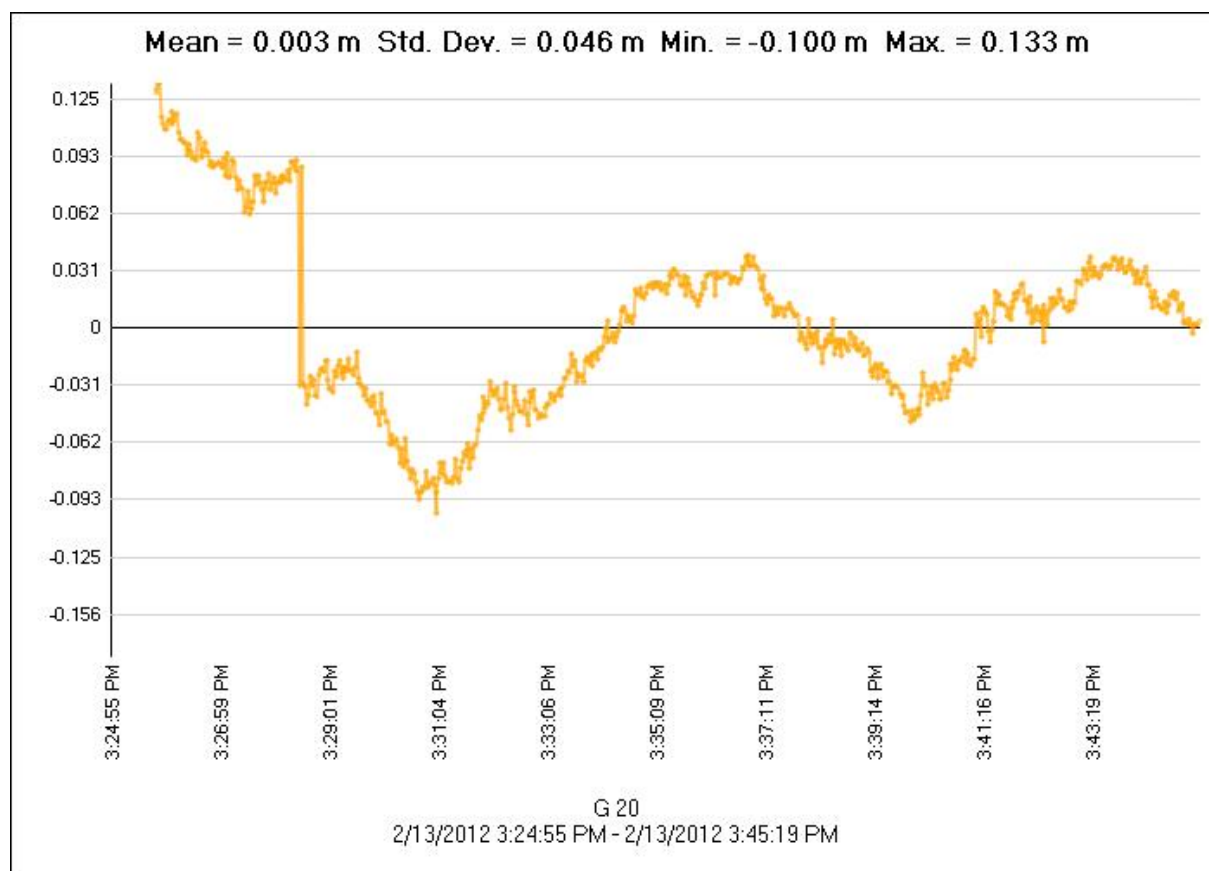
Tracking Summary

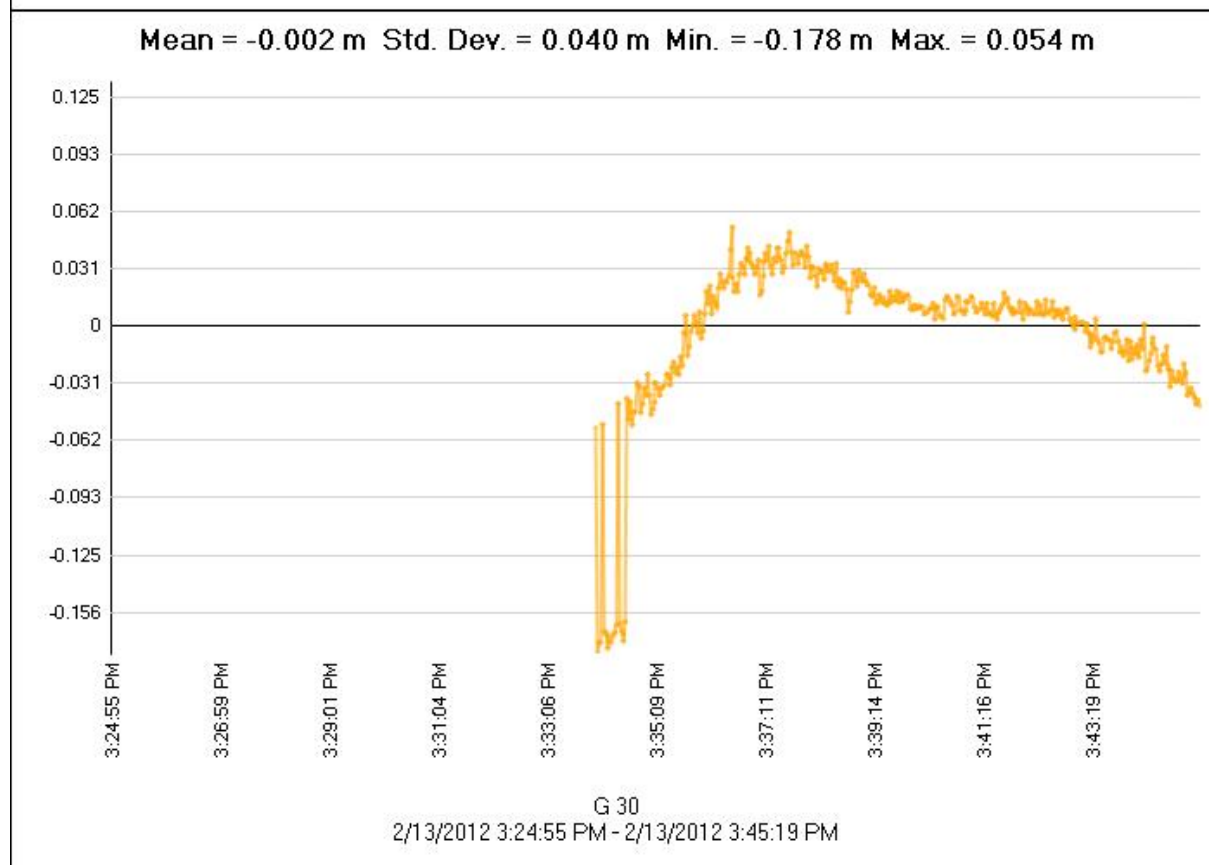
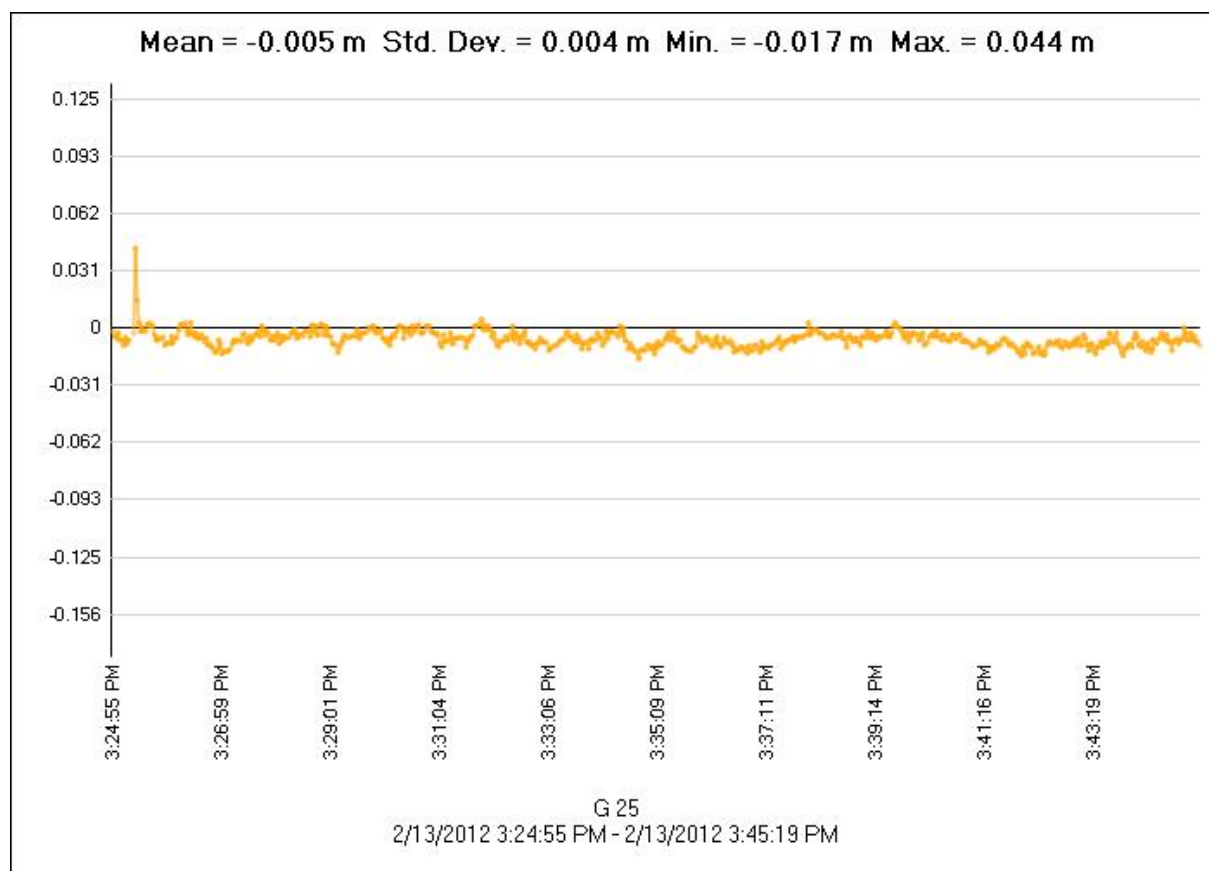
SV	2/13/2012 3:24:54 PM	Duration: 00:20:25	Major interval: 00:01:00	2/13/2012 3:45:19 PM
G 1				
G 11				
G 12				
G 14				
G 18				
G 20				
G 22				
G 25				
G 30				
G 31				
G 32				

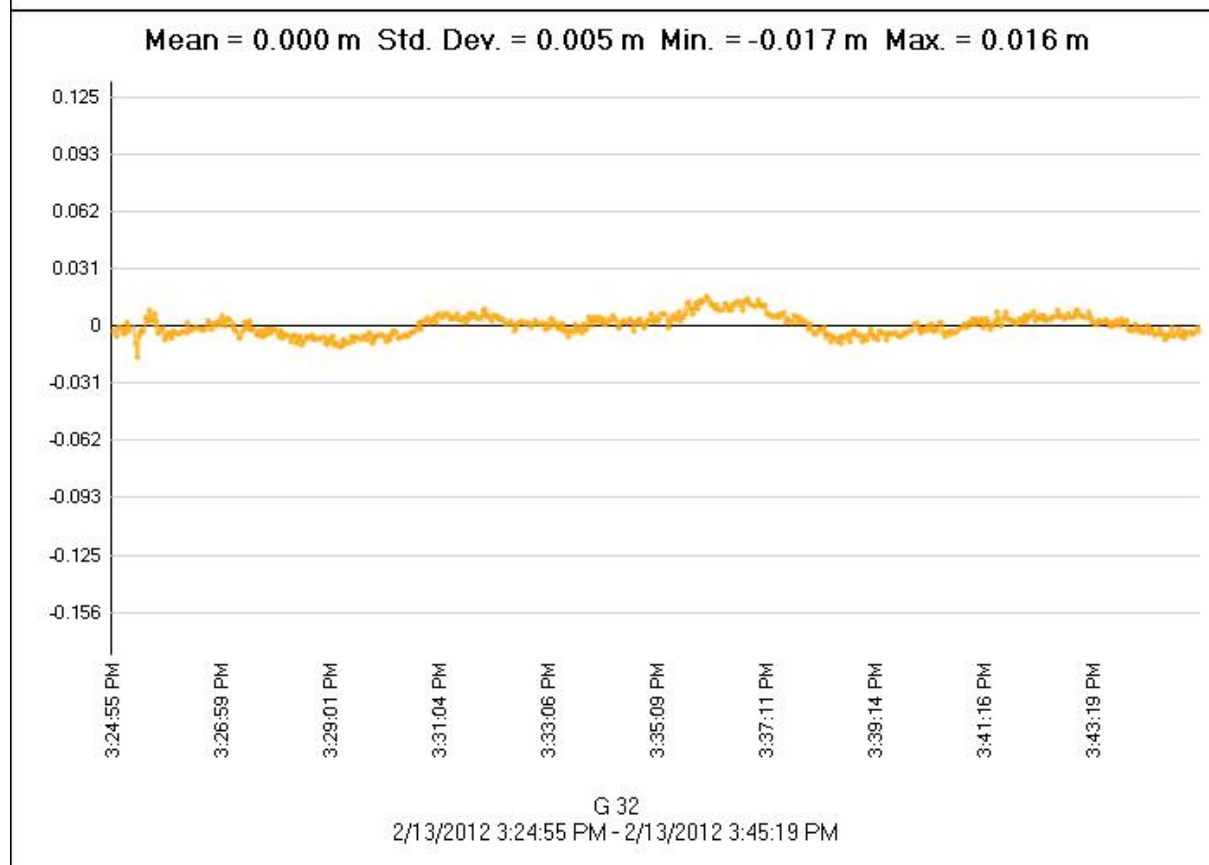
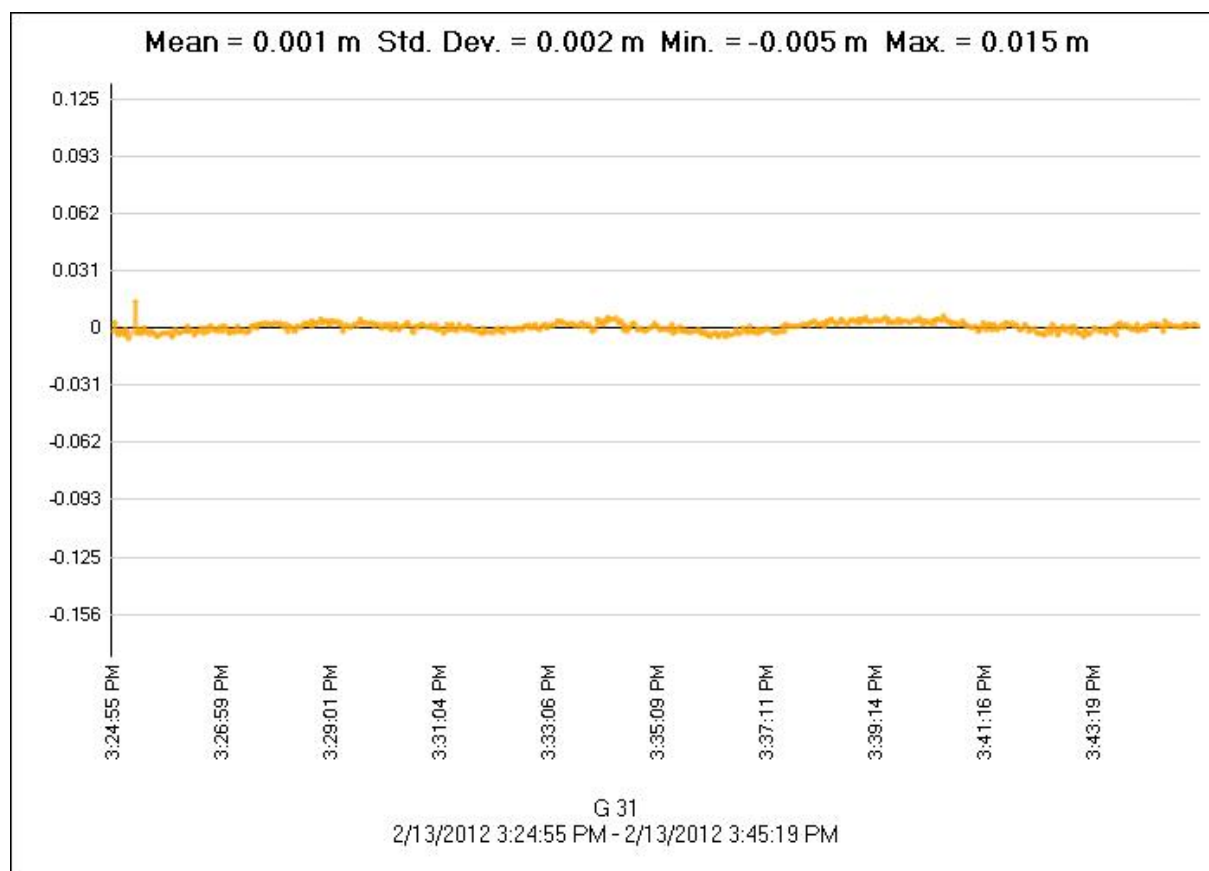
Residuals











Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA03-B2 (5:05:25 PM-5:25:39 PM) (S137)

Baseline observation: JH0456 --- FVA03-B2 (B137)

Processed: 3/21/2012 1:39:52 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.015 m

Vertical precision: 0.014 m

RMS: 0.001 m

Maximum PDOP: 2.035

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 5:05:25 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 5:25:39 PM (Local: UTC-7hr)

Processing duration: 00:20:14

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	FVA03-B2				
Grid		Local		Global	
Easting	322709.545 m	Latitude	N38°43'44.36492"	Latitude	N38°43'44.36491"
Northing	4288677.726 m	Longitude	W101°02'22.47498"	Longitude	W101°02'22.47498"
Elevation	908.318 m	Height	883.723 m	Height	883.723 m

Vector					
9Ughb[	-12553.302 m	NS Fwd Azimuth	334°38'39"	L	-9624.218 m
Bcfh\jb[	27962.430 m	Ellipsoid Dist.	30652.202 m	M	19466.477 m
9Yj Uhcb	-3.320 m	<Y][\h	-2.998 m	N	21639.032 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point Name	0°00'00"	Point L	0.005 m
Point B	0.005 m	Point dgc	0.004 m	Point M	0.006 m
Point Yj	0.007 m	Point <Yj	0.007 m	Point N	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000219238		
Y	0.0000138440	0.0000420979	
Z	0.0000085717	-0.0000117374	0.0000322100

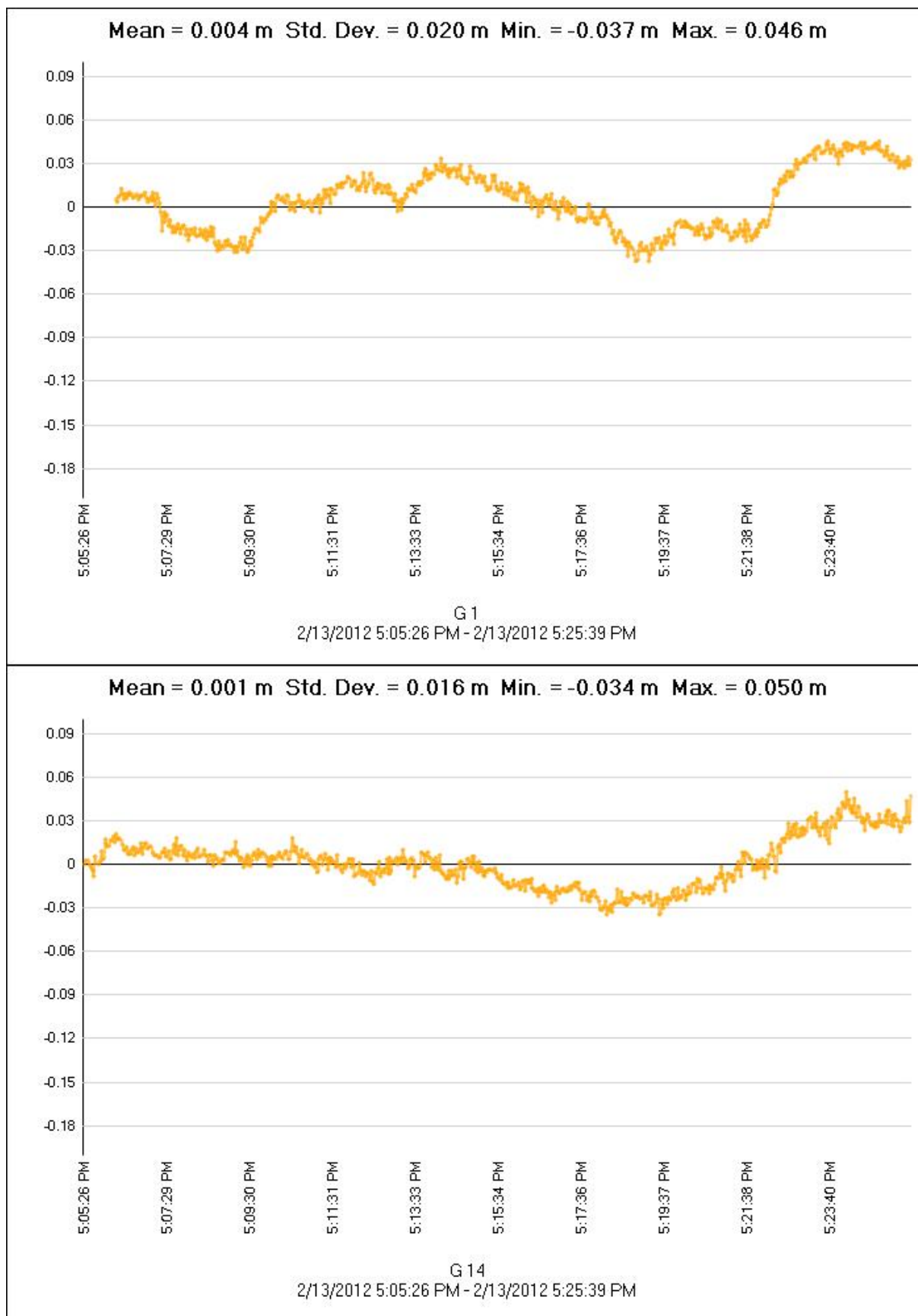
Occupations

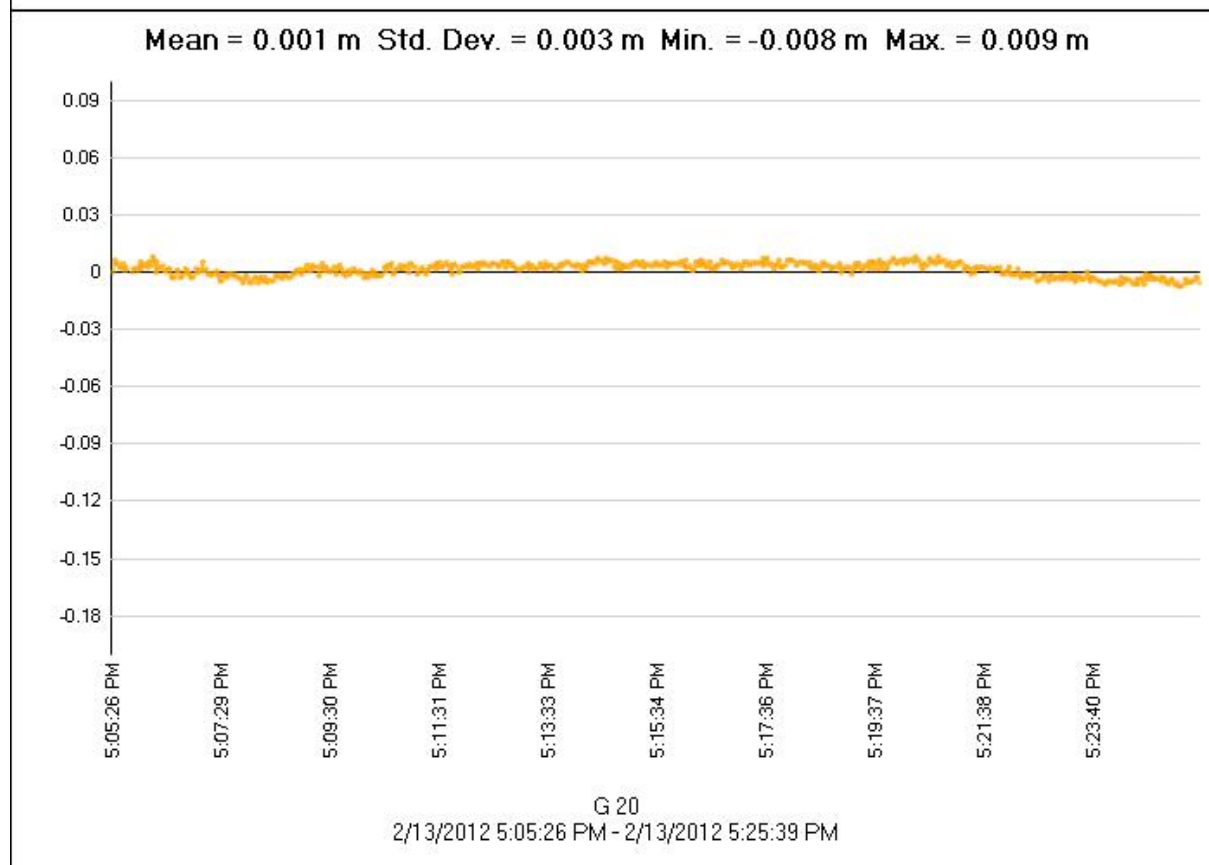
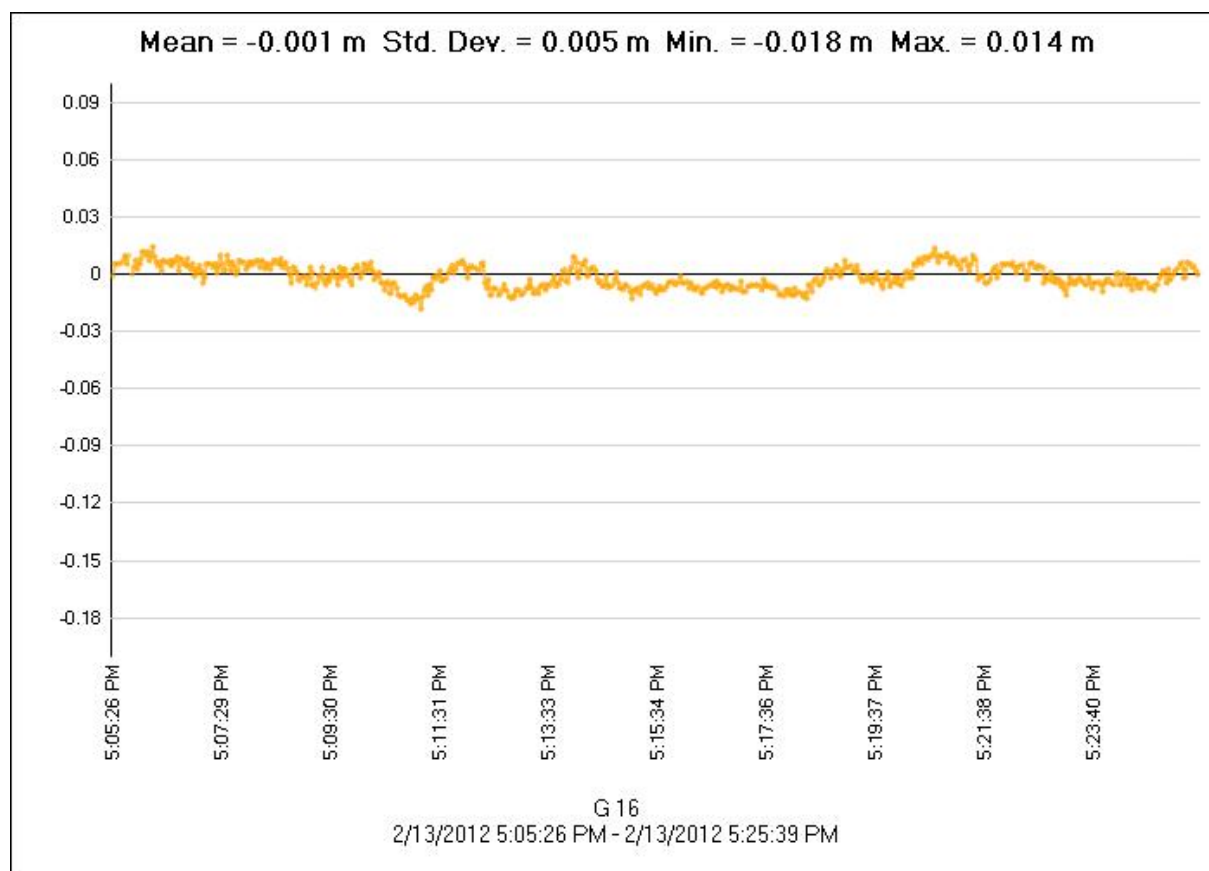
	From	To
Point ID:	JH0456	FVA03-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080450.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/13/2012 5:05:25 PM	Duration: 00:20:14 Major interval: 00:01:00	2/13/2012 5:25:39 PM
G 1	L1 L2		
G 11	L1 L2		
G 13	L1 L2		
G 14	L1 L2		
G 16	L1 L2		
G 20	L1 L2		
G 22	L1		
G 23	L1 L2		
G 25	L1 L2		
G 29	L1 L2		
G 30	L1 L2		
G 31	L1 L2		
G 32	L1 L2		

Residuals





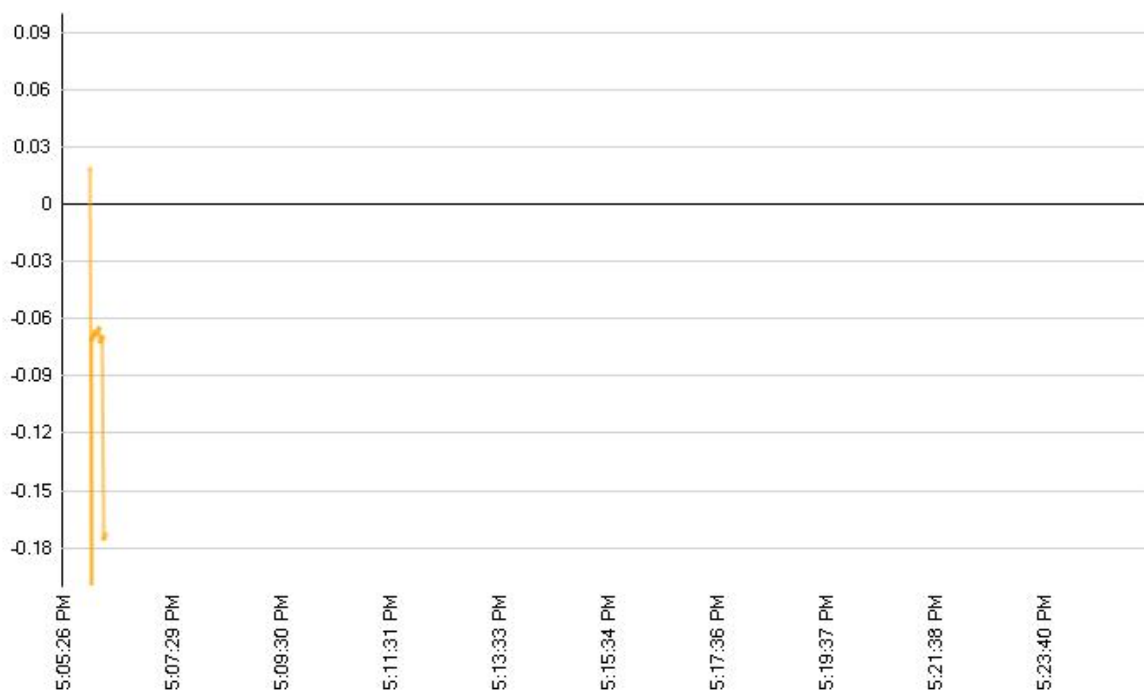
Mean = 0.001 m Std. Dev. = 0.008 m Min. = -0.026 m Max. = 0.028 m



G 23

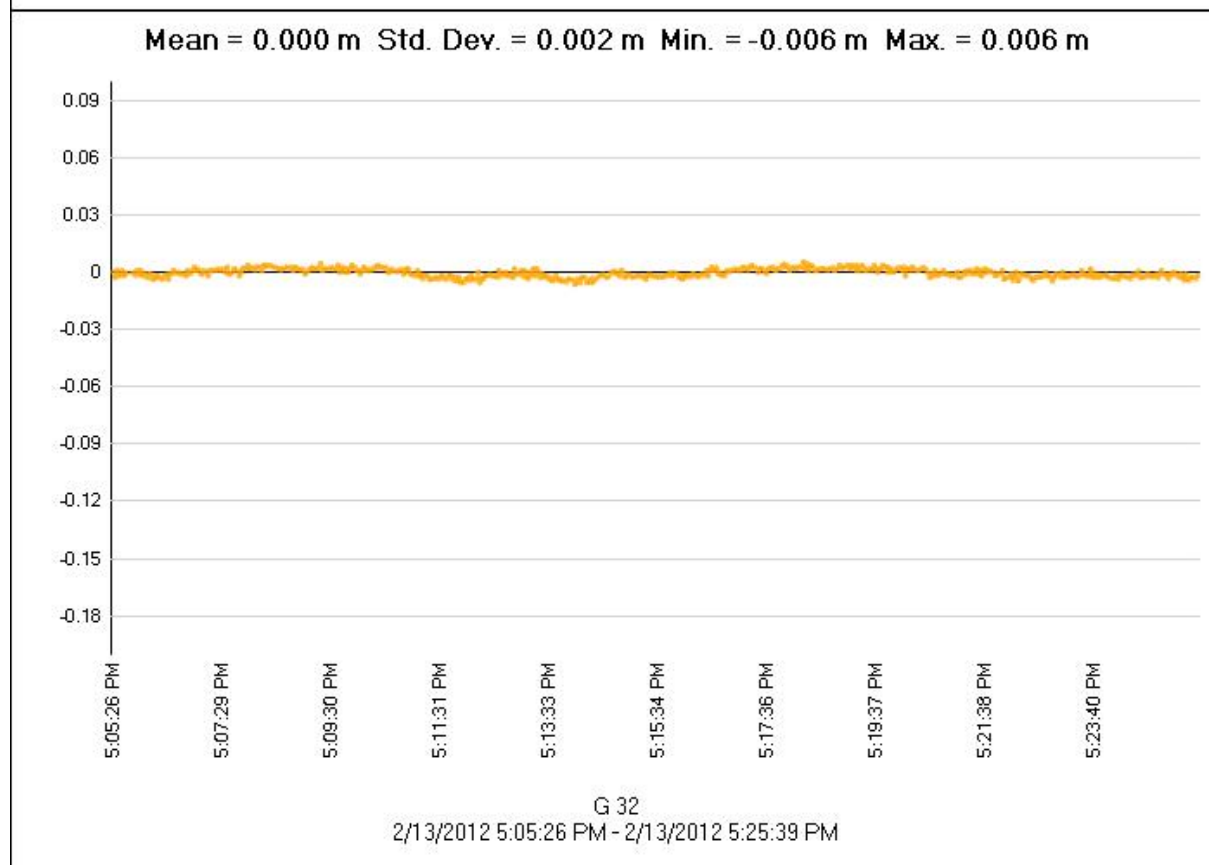
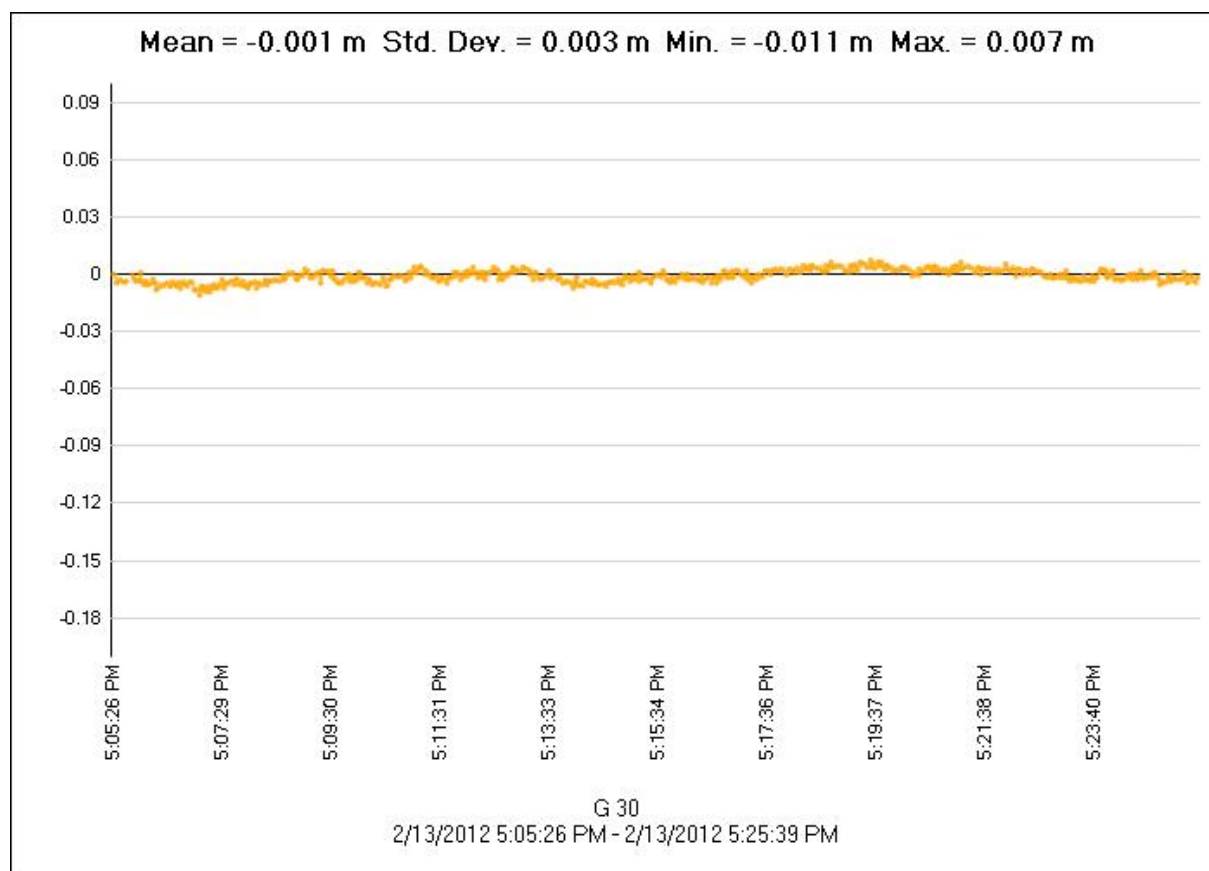
2/13/2012 5:05:26 PM - 2/13/2012 5:25:39 PM

Mean = -0.095 m Std. Dev. = 0.058 m Min. = -0.200 m Max. = 0.018 m



G 25

2/13/2012 5:05:26 PM - 2/13/2012 5:25:39 PM



Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA51-B2 (4:19:24 PM-4:38:29 PM) (S138)

Baseline observation: JH0456 --- FVA51-B2 (B138)

Processed: 3/21/2012 1:39:56 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.013 m

RMS: 0.005 m

Maximum PDOP: 1.958

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 4:19:24 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 4:38:29 PM (Local: UTC-7hr)

Processing duration: 00:19:05

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	FVA51-B2				
Grid		Local		Global	
Easting	326065.429 m	Latitude	N38°39'50.78543"	Latitude	N38°39'50.78543"
Northing	4281399.481 m	Longitude	W100°59'56.99619"	Longitude	W100°59'56.99619"
Elevation	949.675 m	Height	925.020 m	Height	925.020 m

Vector					
9Ughb[	-9197.418 m	NS Fwd Azimuth	334°50'58"	L	-7040.009 m
Bcfh\jb[	20684.185 m	Ellipsoid Dist.	22637.932 m	M	14342.104 m
9`Yj Uhcb	38.038 m	<Y][\h	38.299 m	N	16042.603 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.004 m	Point Type	0.006 m
Point ID	0.006 m	Point Description	0.006 m	Point Type	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000094321		
Y	0.0000072705	0.0000395502	
Z	-0.0000014242	-0.0000105770	0.0000168987

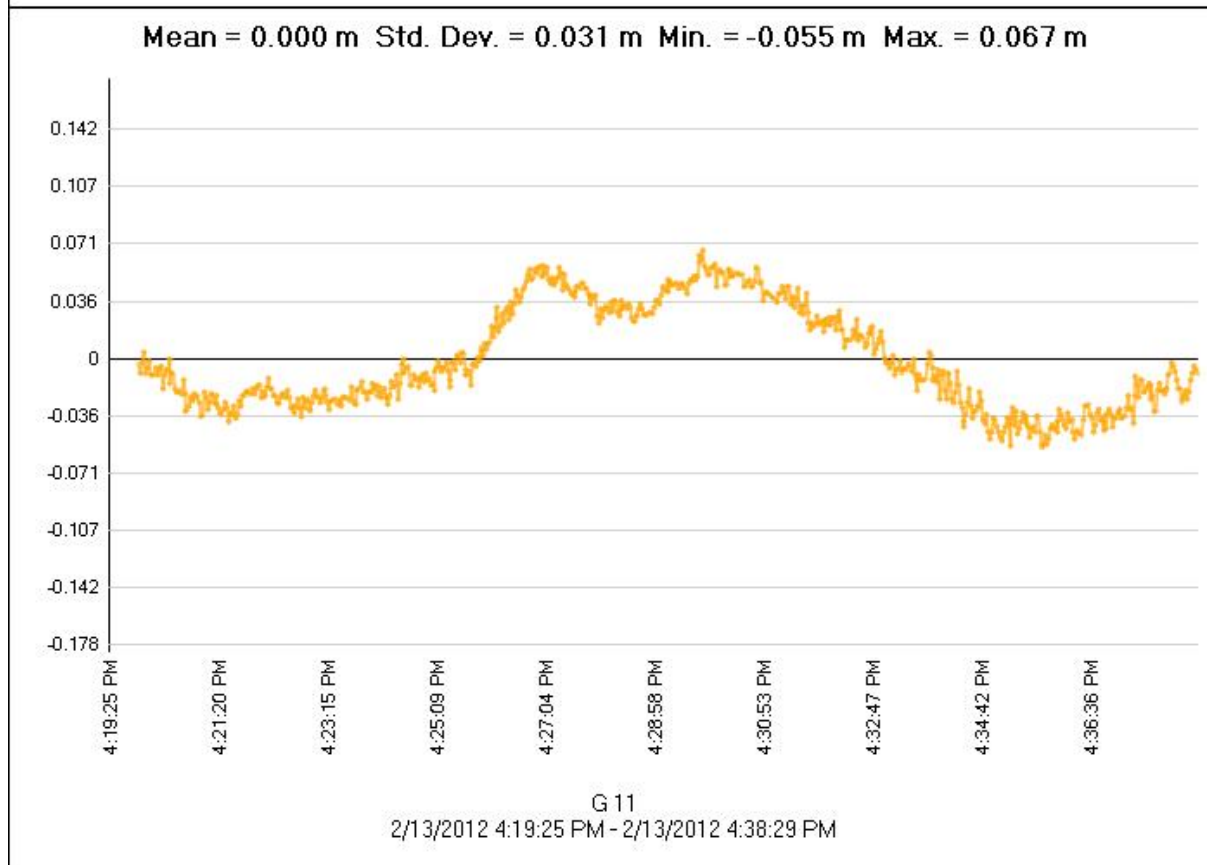
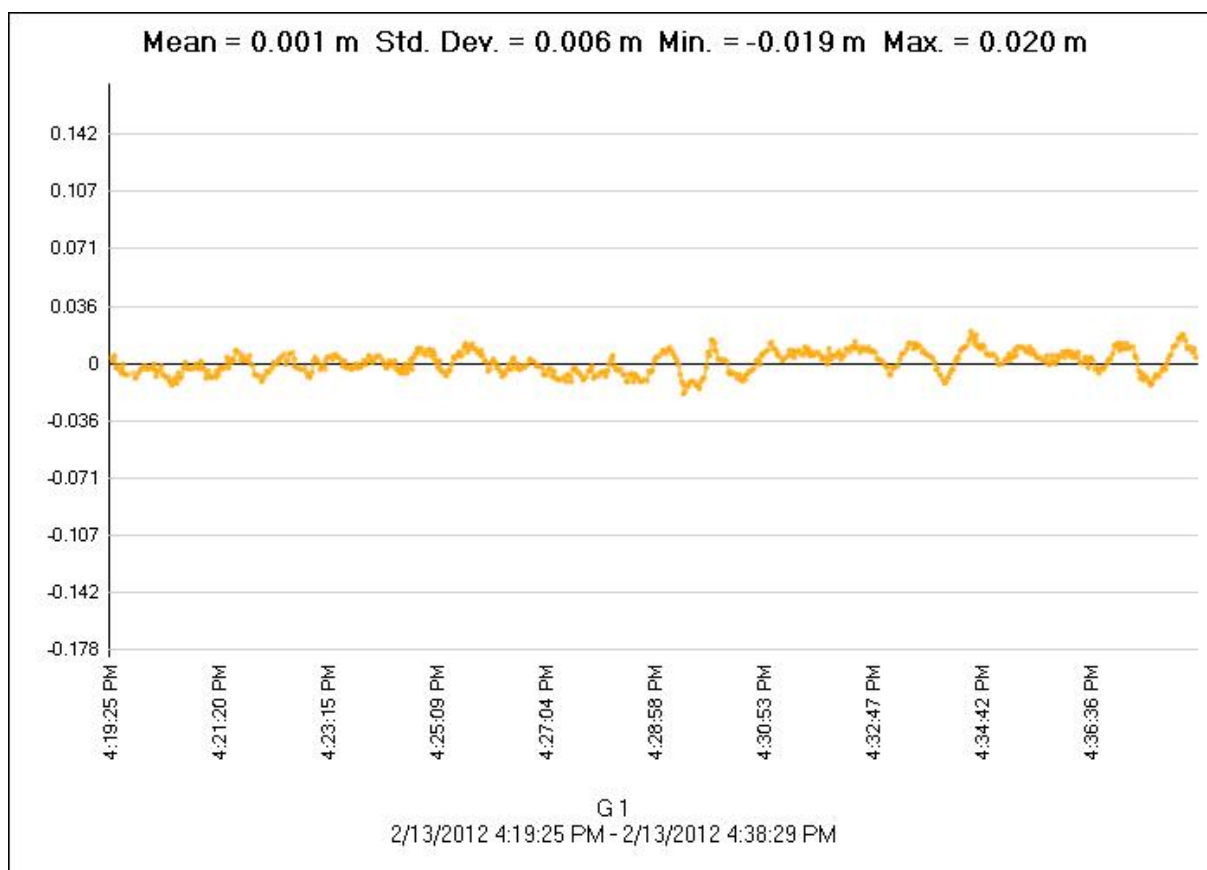
Occupations

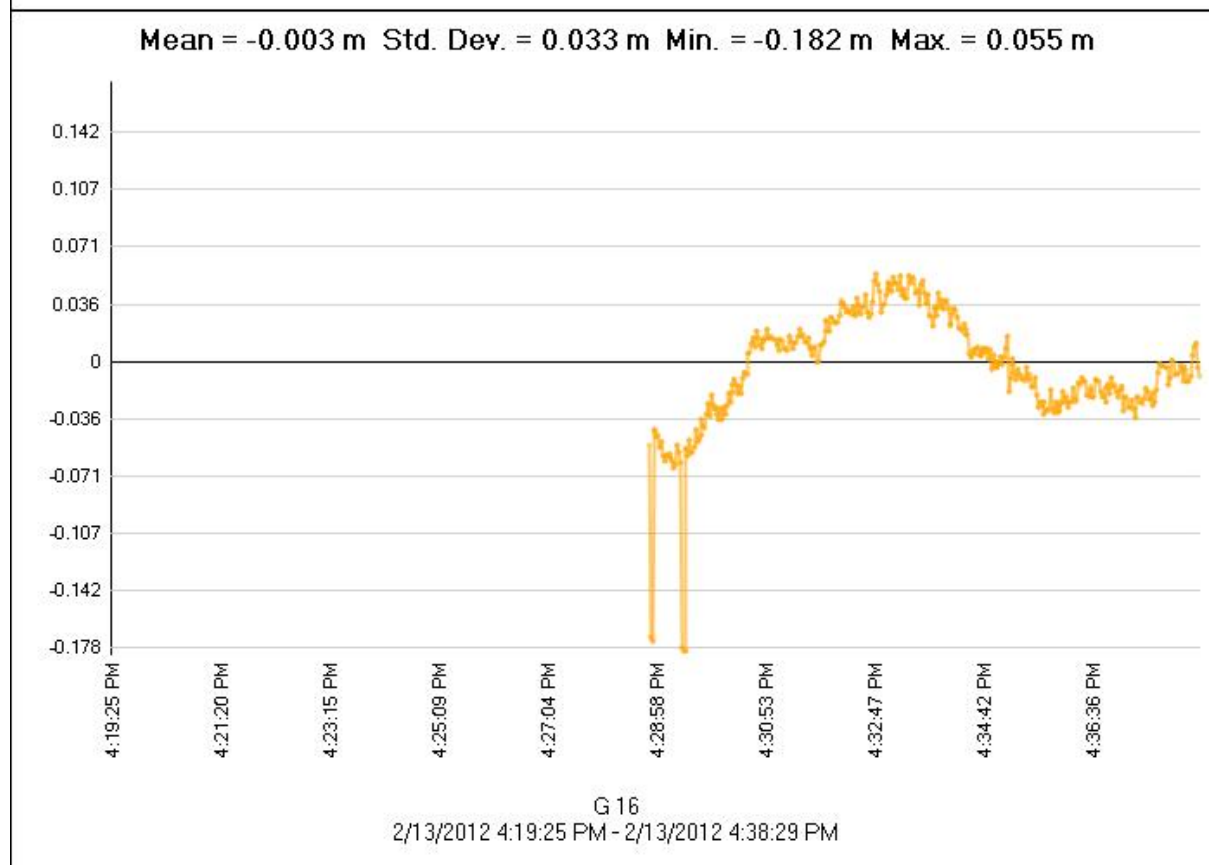
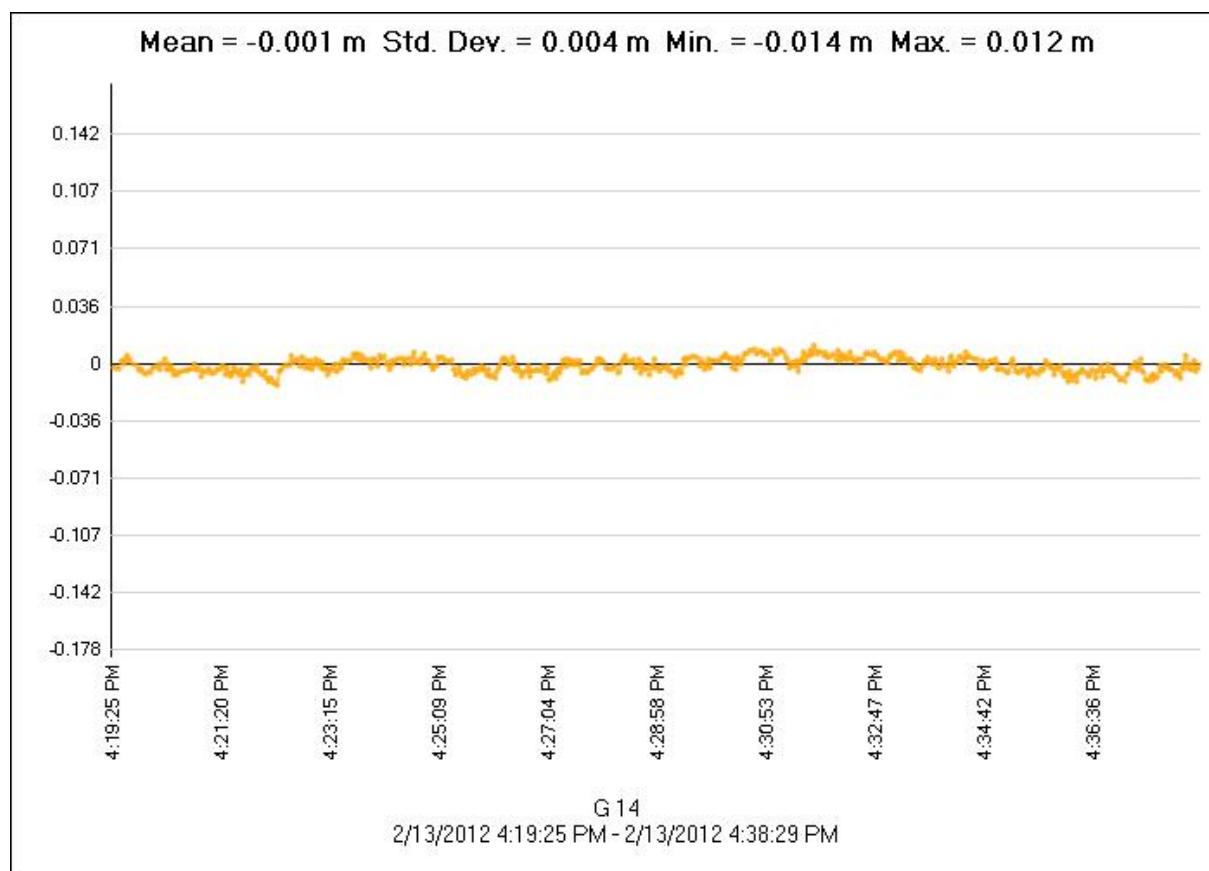
	From	To
Point ID:	JH0456	FVA51-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080445.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

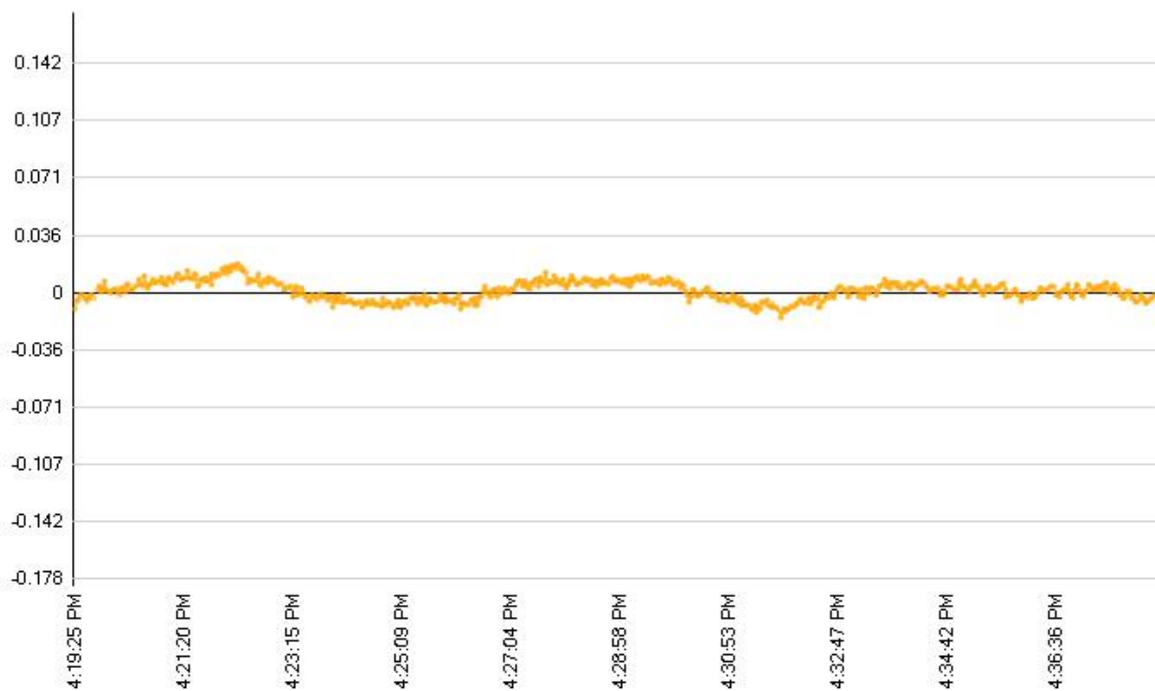
SV	2/13/2012 4:19:24 PM	Duration: 00:19:05 Major interval: 00:01:00	2/13/2012 4:38:29 PM
G 1	L1 L2		
G 11	L1 L2		
G 14	L1 L2		
G 16	L1 L2		
G 20	L1 L2		
G 22	L1 L2		
G 23	L1 L2		
G 25	L1 L2		
G 30	L1 L2		
G 31	L1 L2		
G 32	L1 L2		

Residuals





Mean = 0.001 m Std. Dev. = 0.005 m Min. = -0.015 m Max. = 0.018 m



G 20

2/13/2012 4:19:25 PM - 2/13/2012 4:38:29 PM

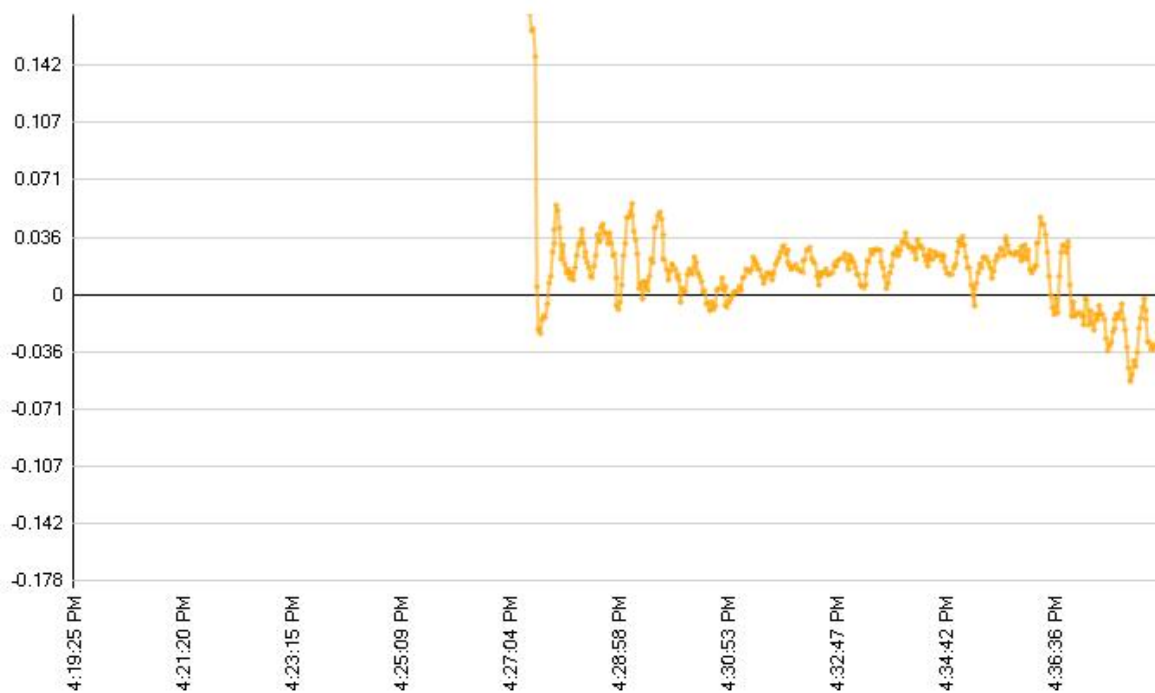
Mean = 0.002 m Std. Dev. = 0.015 m Min. = -0.029 m Max. = 0.035 m



G 22

2/13/2012 4:19:25 PM - 2/13/2012 4:38:29 PM

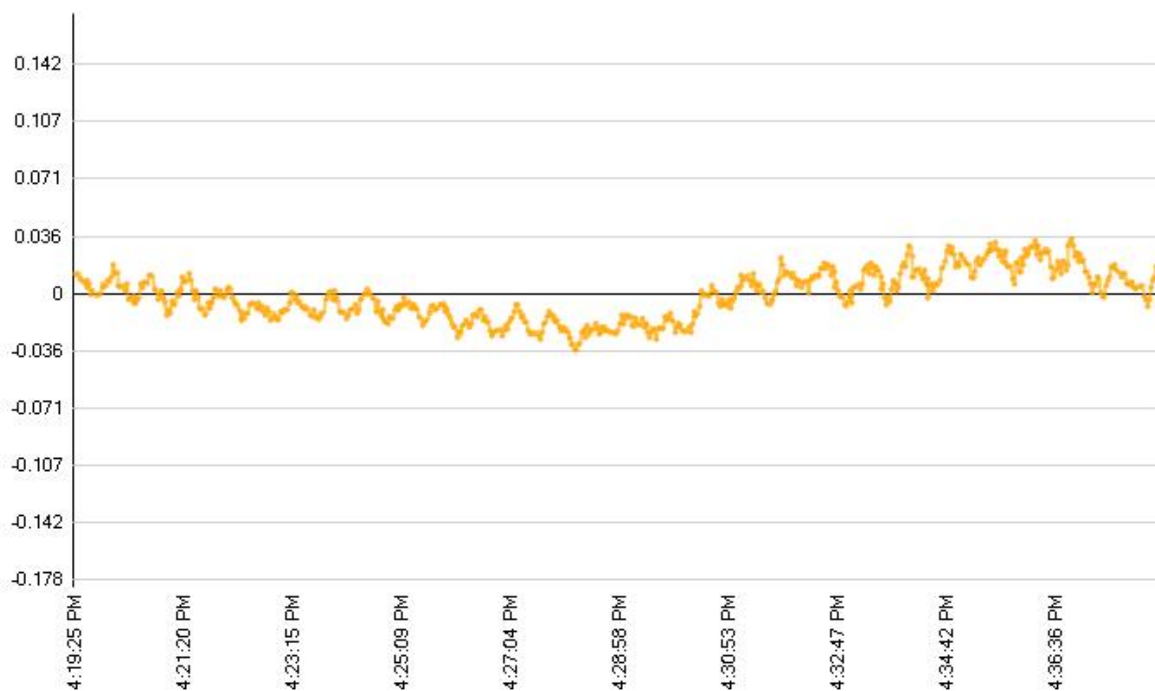
Mean = 0.014 m Std. Dev. = 0.023 m Min. = -0.055 m Max. = 0.174 m



G 23

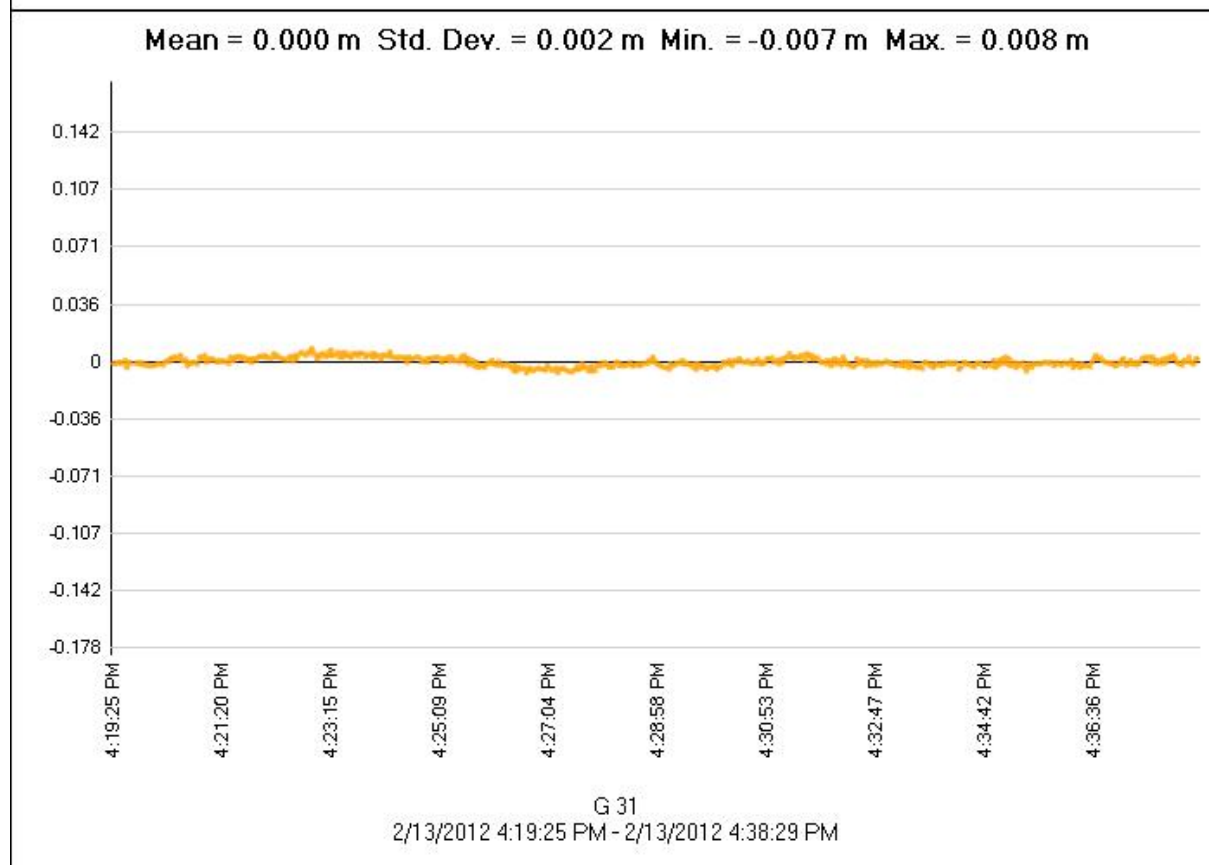
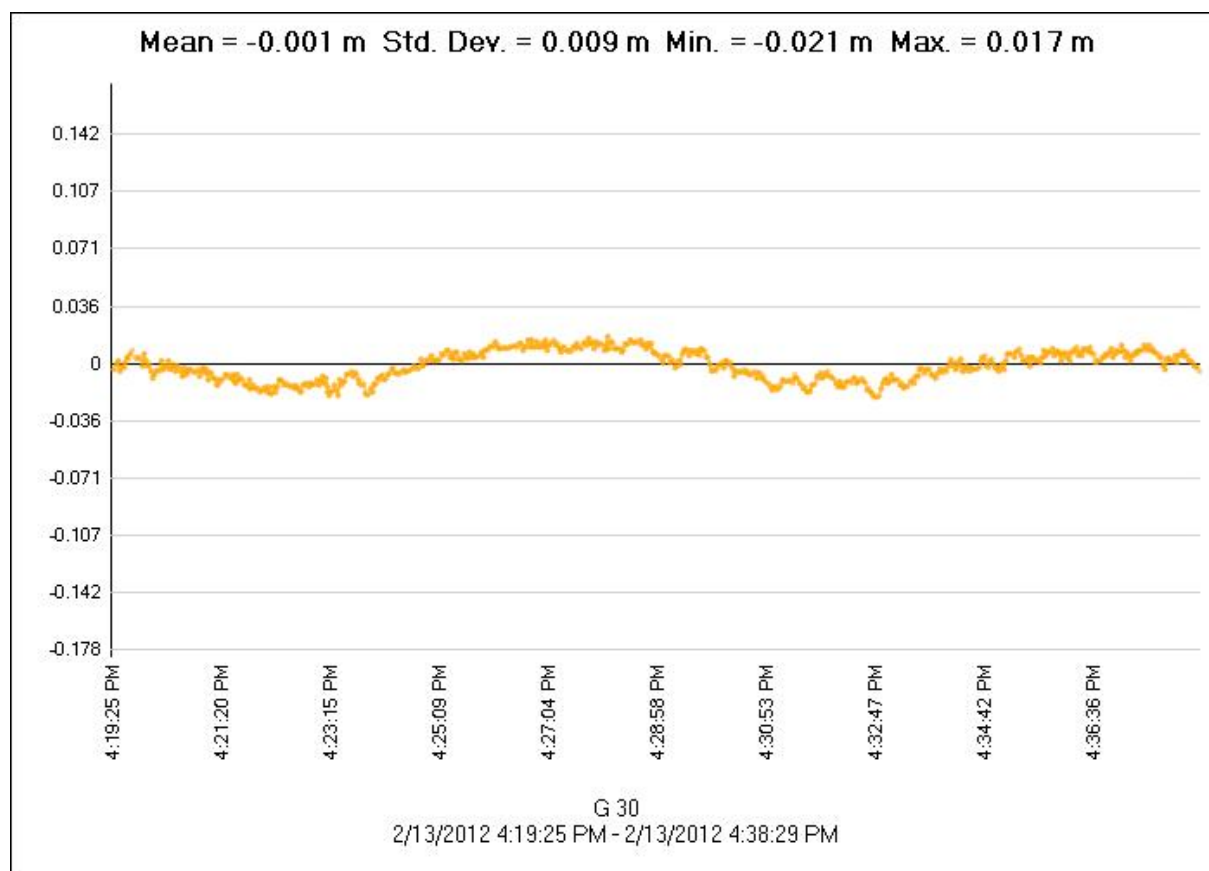
2/13/2012 4:19:25 PM - 2/13/2012 4:38:29 PM

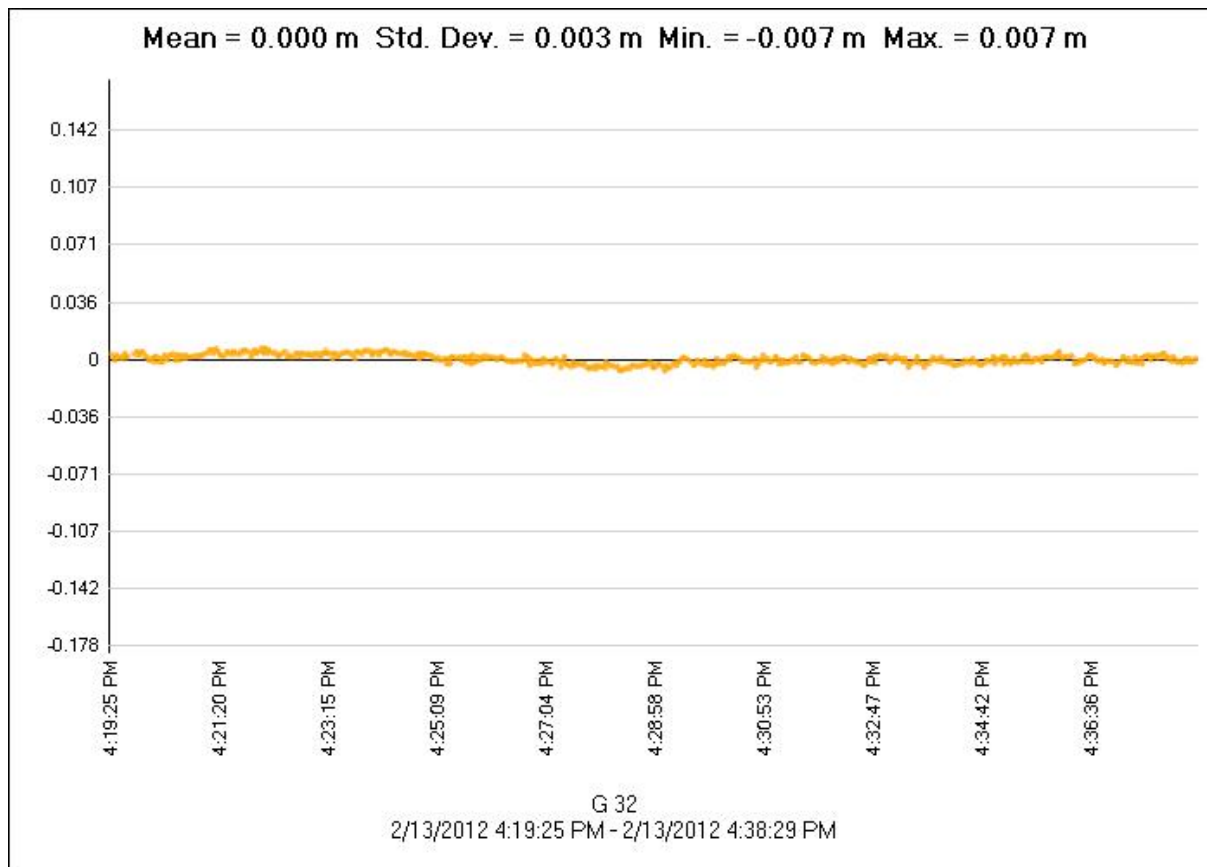
Mean = -0.002 m Std. Dev. = 0.014 m Min. = -0.035 m Max. = 0.034 m



G 25

2/13/2012 4:19:25 PM - 2/13/2012 4:38:29 PM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA50-B2 (1:18:54 PM-1:38:06 PM) (S140)

Baseline observation: JH0456 --- SVA50-B2 (B140)

Processed: 3/21/2012 1:44:44 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.027 m

Vertical precision: 0.024 m

RMS: 0.003 m

Maximum PDOP: 2.494

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 1:18:54 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 1:38:06 PM (Local: UTC-7hr)

Processing duration: 00:19:12

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA50-B2				
Grid		Local		Global	
Easting	346582.104 m	Latitude	N38°38'59.27139"	Latitude	N38°38'59.27139"
Northing	4279389.866 m	Longitude	W100°45'46.86538"	Longitude	W100°45'46.86538"
Elevation	902.563 m	Height	877.557 m	Height	877.557 m

Vector					
9Ughb[	11319.256 m	NS Fwd Azimuth	30°02'38"	L	12967.946 m
Bcfh\jb[	18674.570 m	Ellipsoid Dist.	21839.169 m	M	9523.209 m
9`Yj Uhcb	-9.075 m	<Y][\h	-9.164 m	N	14772.338 m

Standard Errors

Vector errors:					
Point ID	0.006 m	Point Name	0°00'00"	Point L	0.006 m
Point B	0.011 m	Point dgc	0.008 m	Point M	0.013 m
Point Yj	0.012 m	Point <Y	0.012 m	Point N	0.010 m

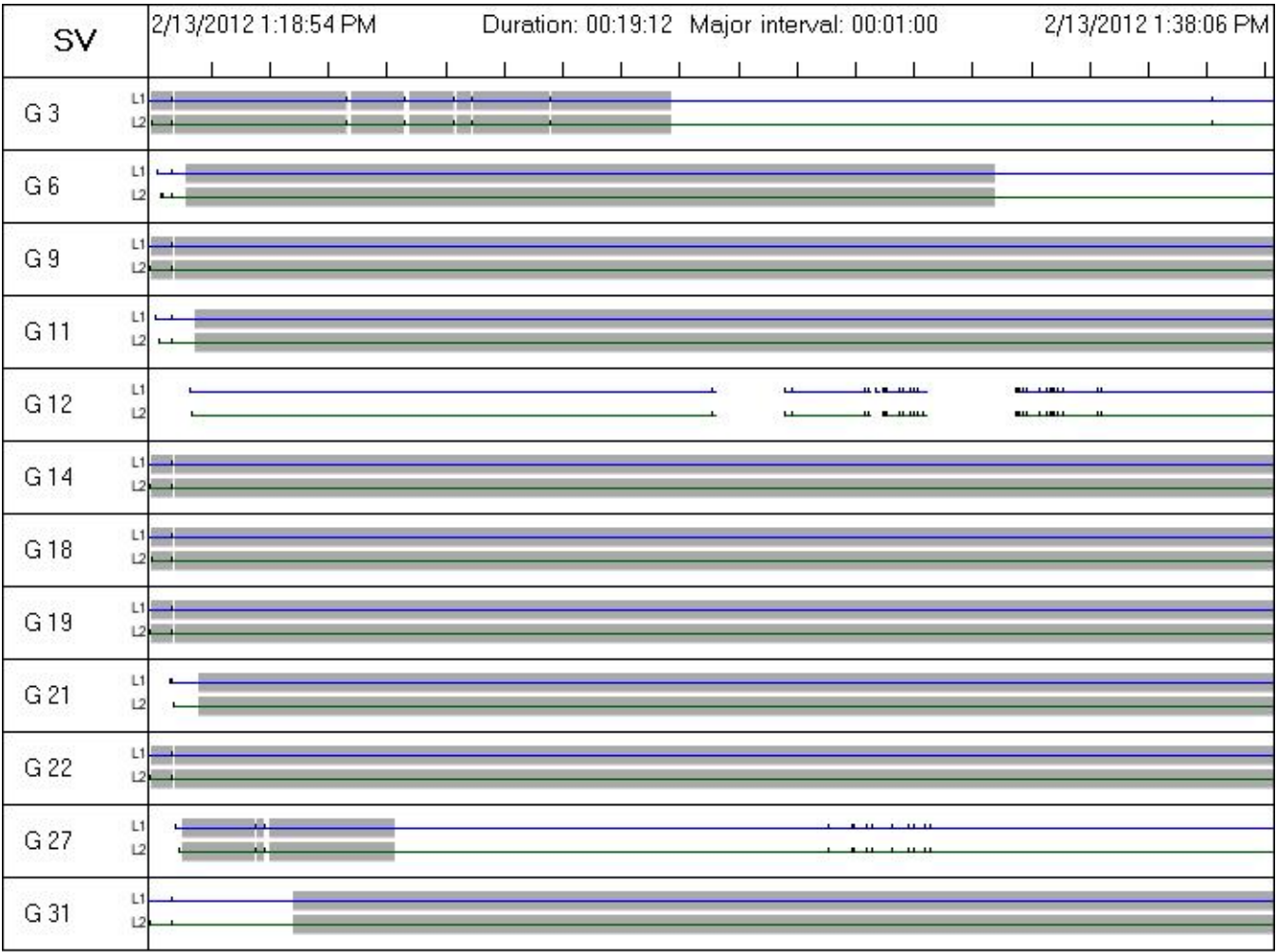
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000347050		
Y	0.0000070959	0.0001613153	
Z	-0.0000250790	-0.0000095771	0.0001018911

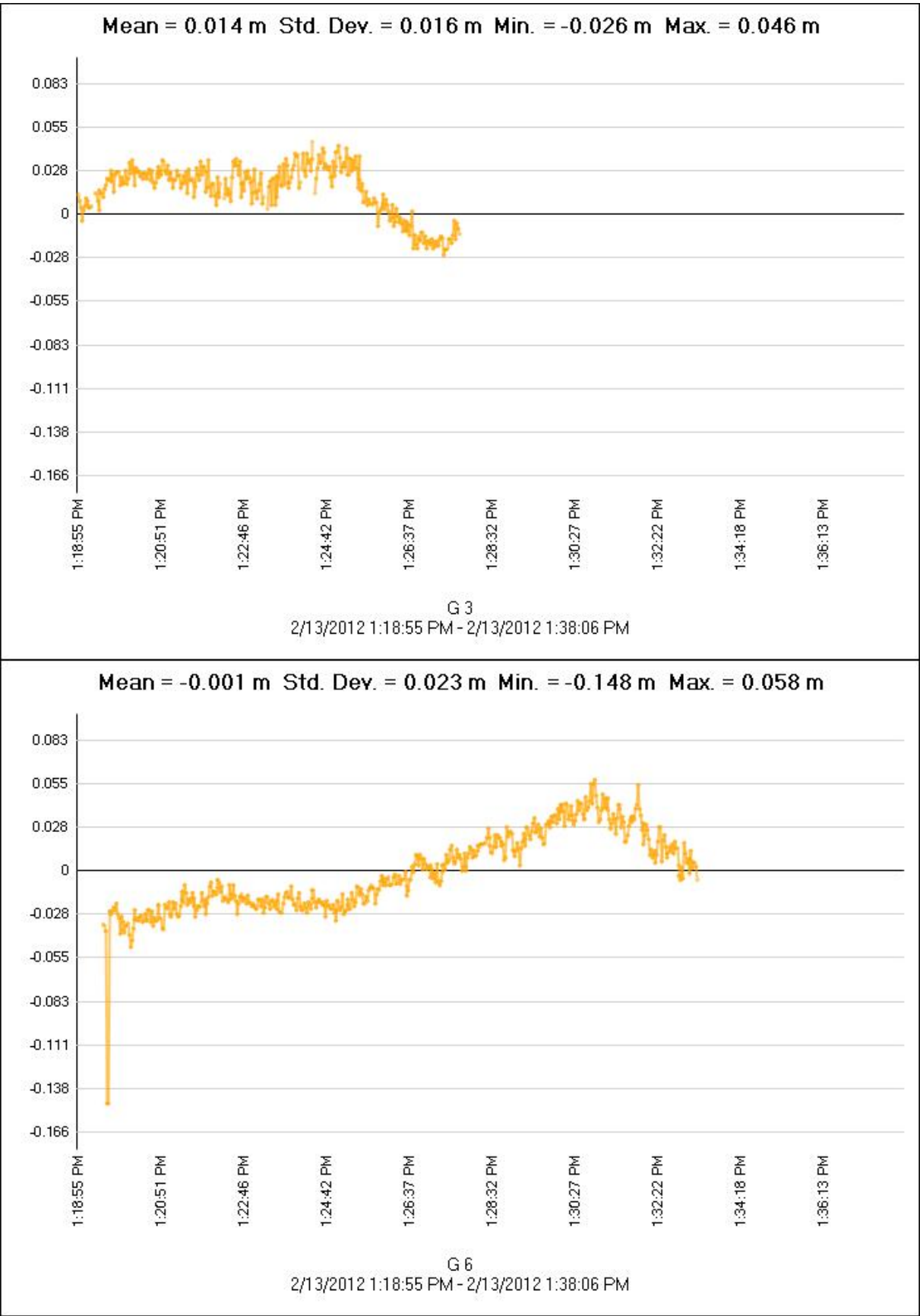
Occupations

	From	To
Point ID:	JH0456	SVA50-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040441.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

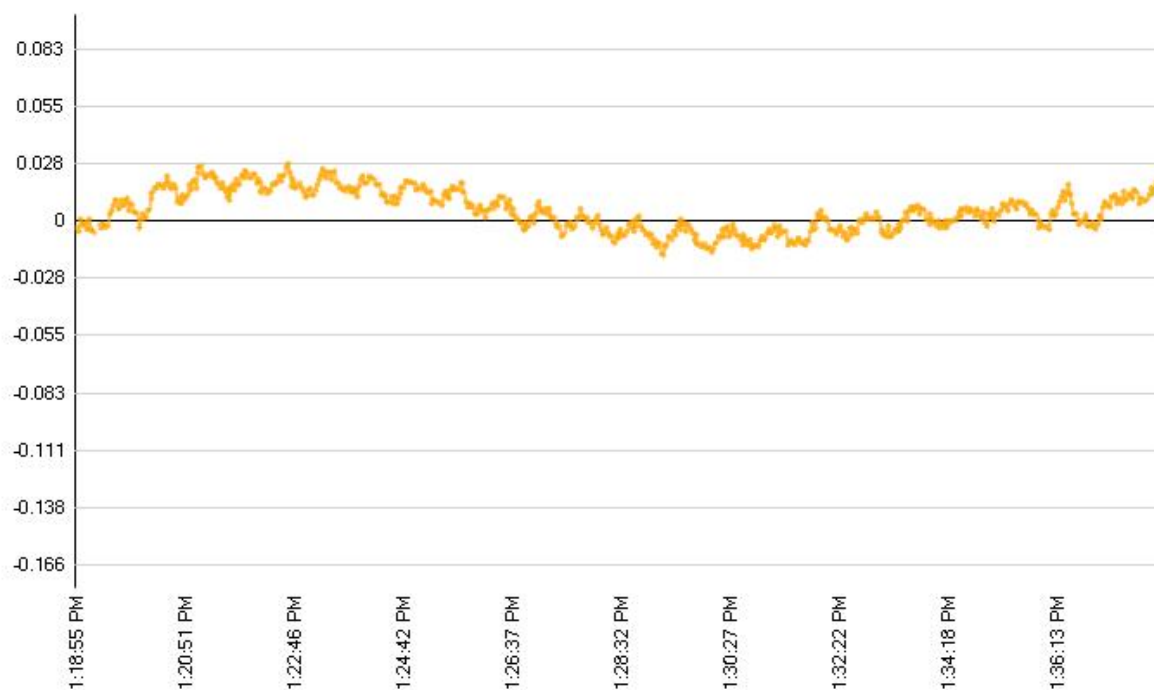
Tracking Summary



Residuals



Mean = 0.005 m Std. Dev. = 0.009 m Min. = -0.016 m Max. = 0.027 m

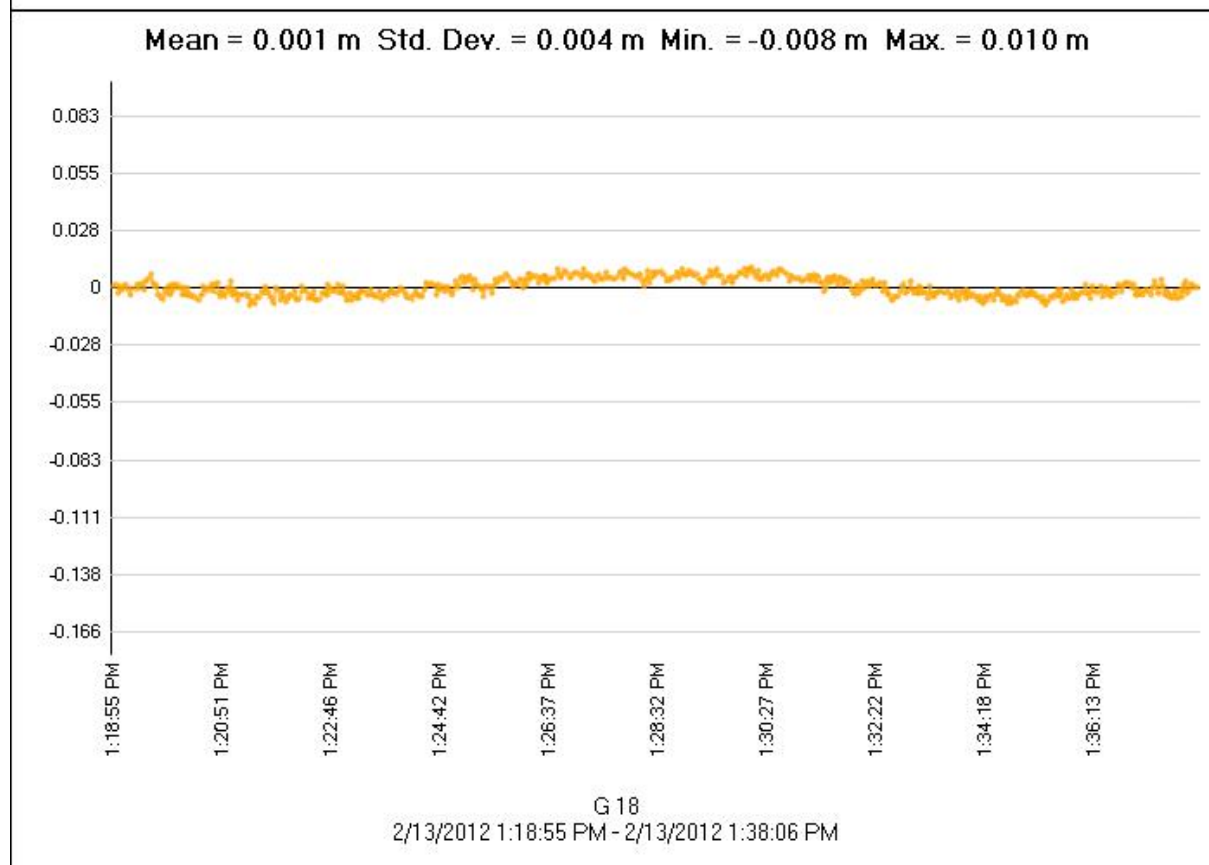
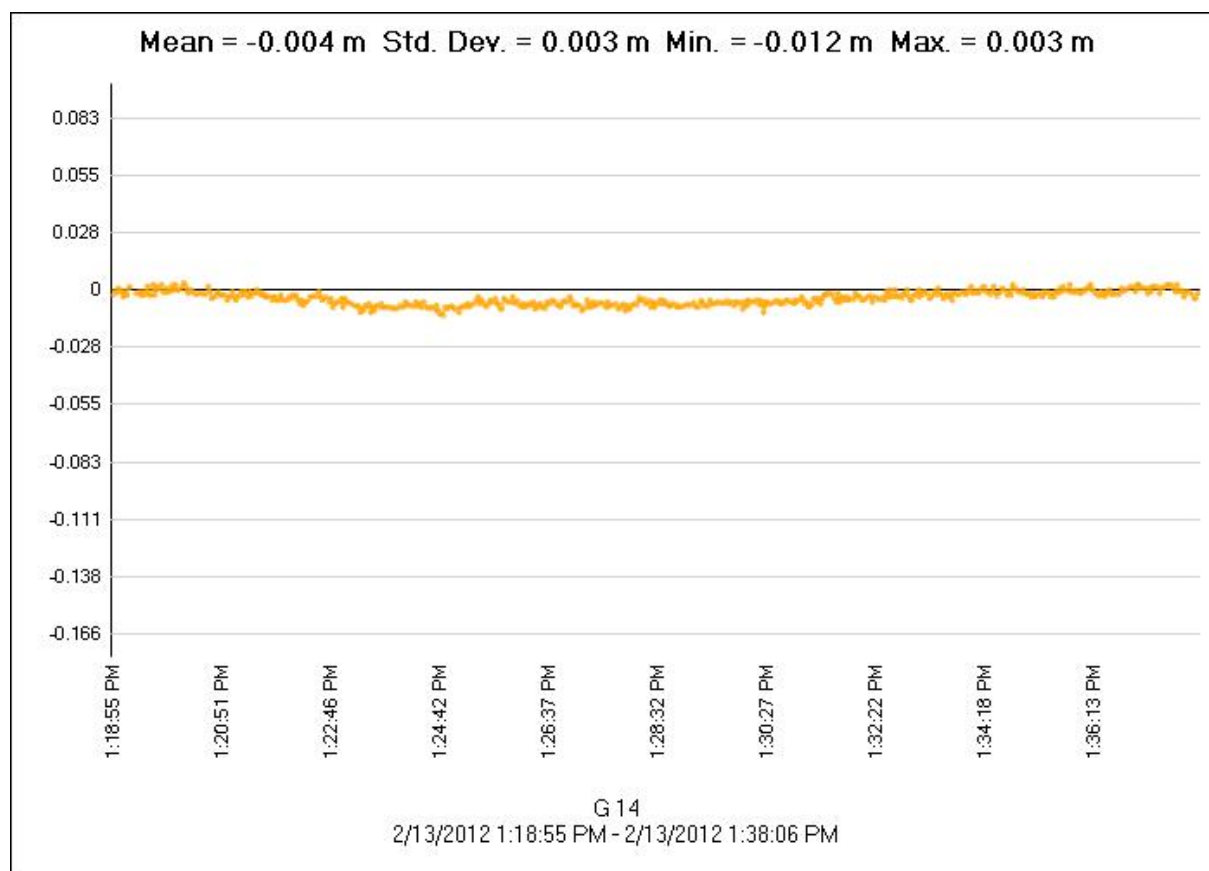


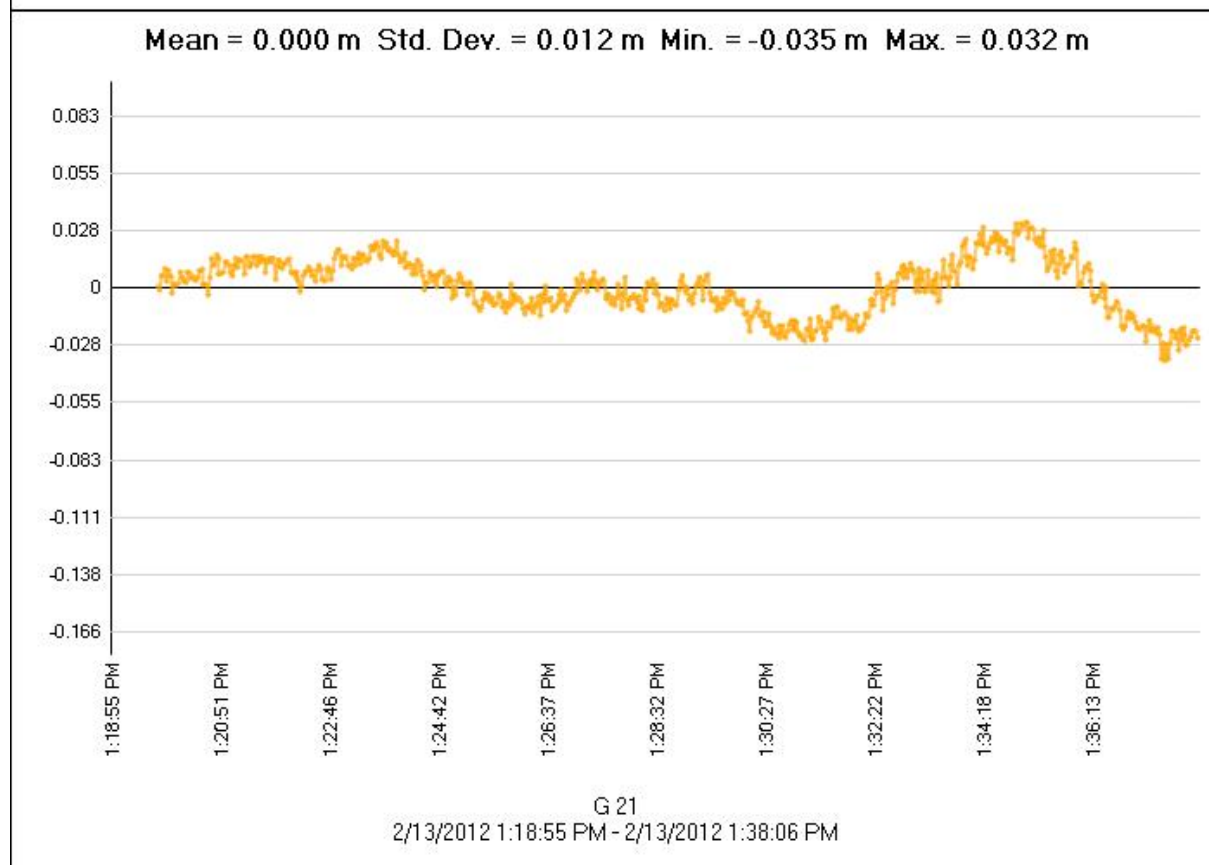
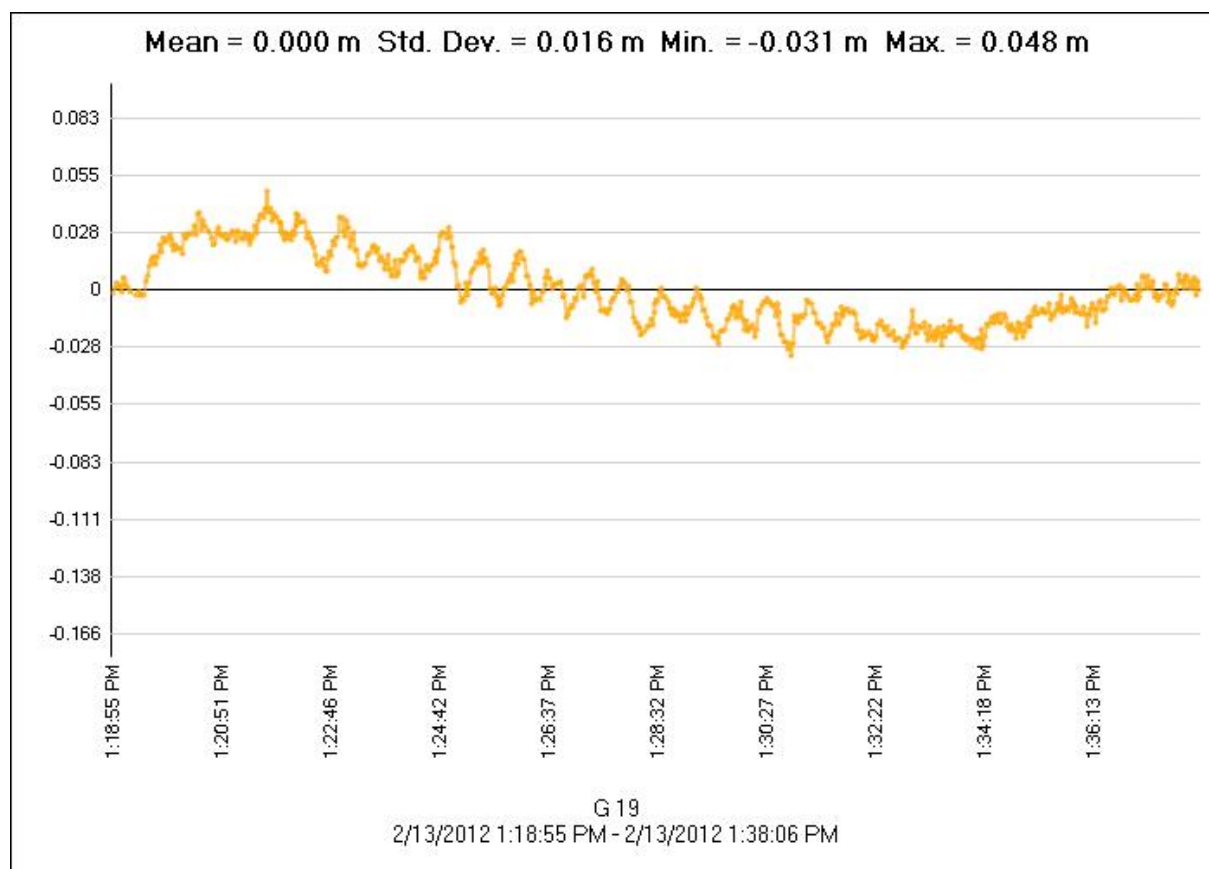
G 9
2/13/2012 1:18:55 PM - 2/13/2012 1:38:06 PM

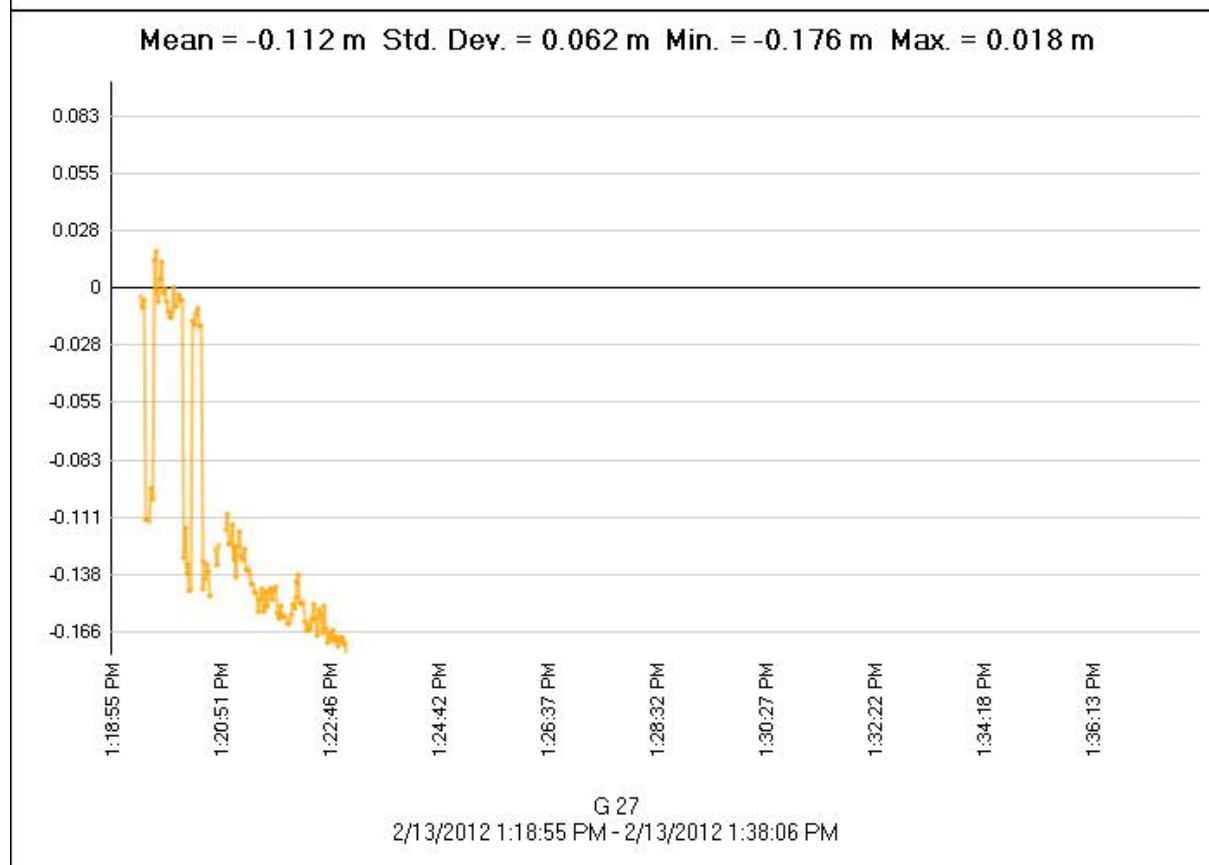
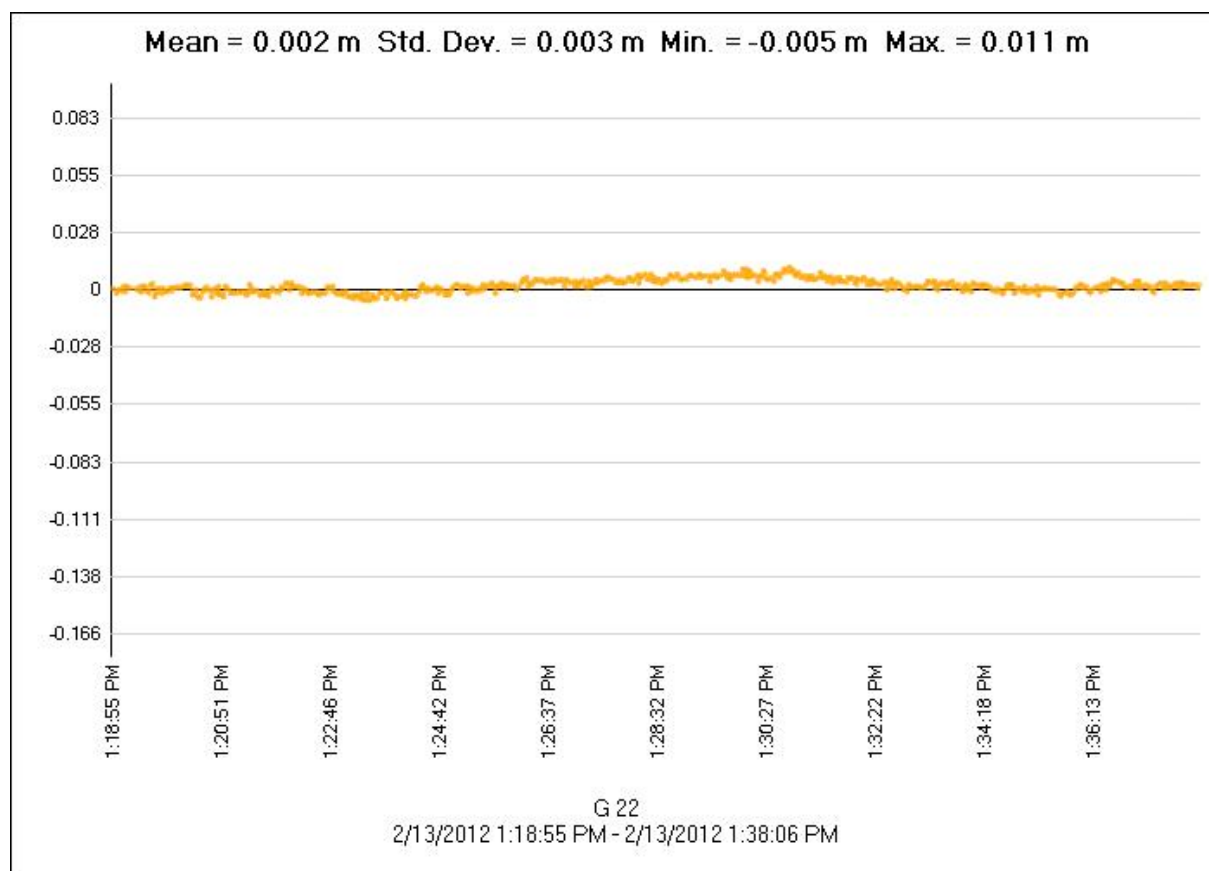
Mean = -0.002 m Std. Dev. = 0.043 m Min. = -0.139 m Max. = 0.065 m

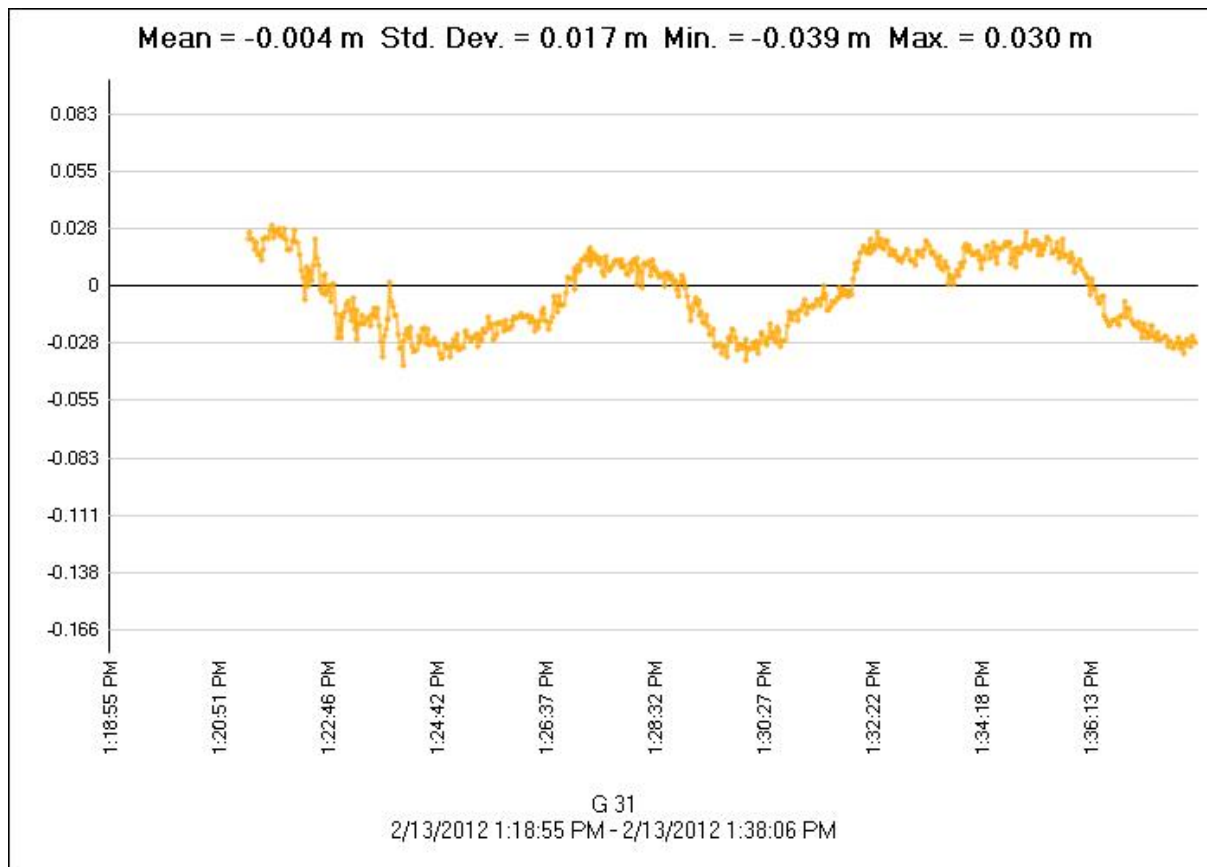


G 11
2/13/2012 1:18:55 PM - 2/13/2012 1:38:06 PM









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA17-B2 (2:24:36 PM-2:44:22 PM) (S142)

Baseline observation: JH0456 --- SVA17-B2 (B142)

Processed: 3/21/2012 1:44:40 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.022 m

Vertical precision: 0.033 m

RMS: 0.002 m

Maximum PDOP: 1.823

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 2:24:36 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 2:44:22 PM (Local: UTC-7hr)

Processing duration: 00:19:46

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA17-B2				
Grid		Local		Global	
Easting	355004.123 m	Latitude	N38°39'17.63321"	Latitude	N38°39'17.63320"
Northing	4279798.621 m	Longitude	W100°39'58.89616"	Longitude	W100°39'58.89616"
Elevation	886.034 m	Height	860.885 m	Height	860.885 m

Vector					
9Ughb[	19741.276 m	NS Fwd Azimuth	44°47'36"	L	21304.518 m
Bcfh\jb[	19083.326 m	Ellipsoid Dist.	27459.943 m	M	8319.005 m
9`Yj Uhcb	-25.603 m	<Y][\h	-25.836 m	N	15204.160 m

Standard Errors

Vector errors:					
Ughb[	0.009 m	BG`Zk X'5n]a i h	0°00'00"	L	0.011 m
Bcfh\]b[	0.005 m	'9~]dgc]X'8]gh	0.008 m	M	0.013 m
'9`Yj Uhcb	0.017 m	' <Y][\h	0.017 m	N	0.010 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001159519		
Y	0.0001196464	0.0001690224	
Z	-0.0000781366	-0.0001062392	0.0000988339

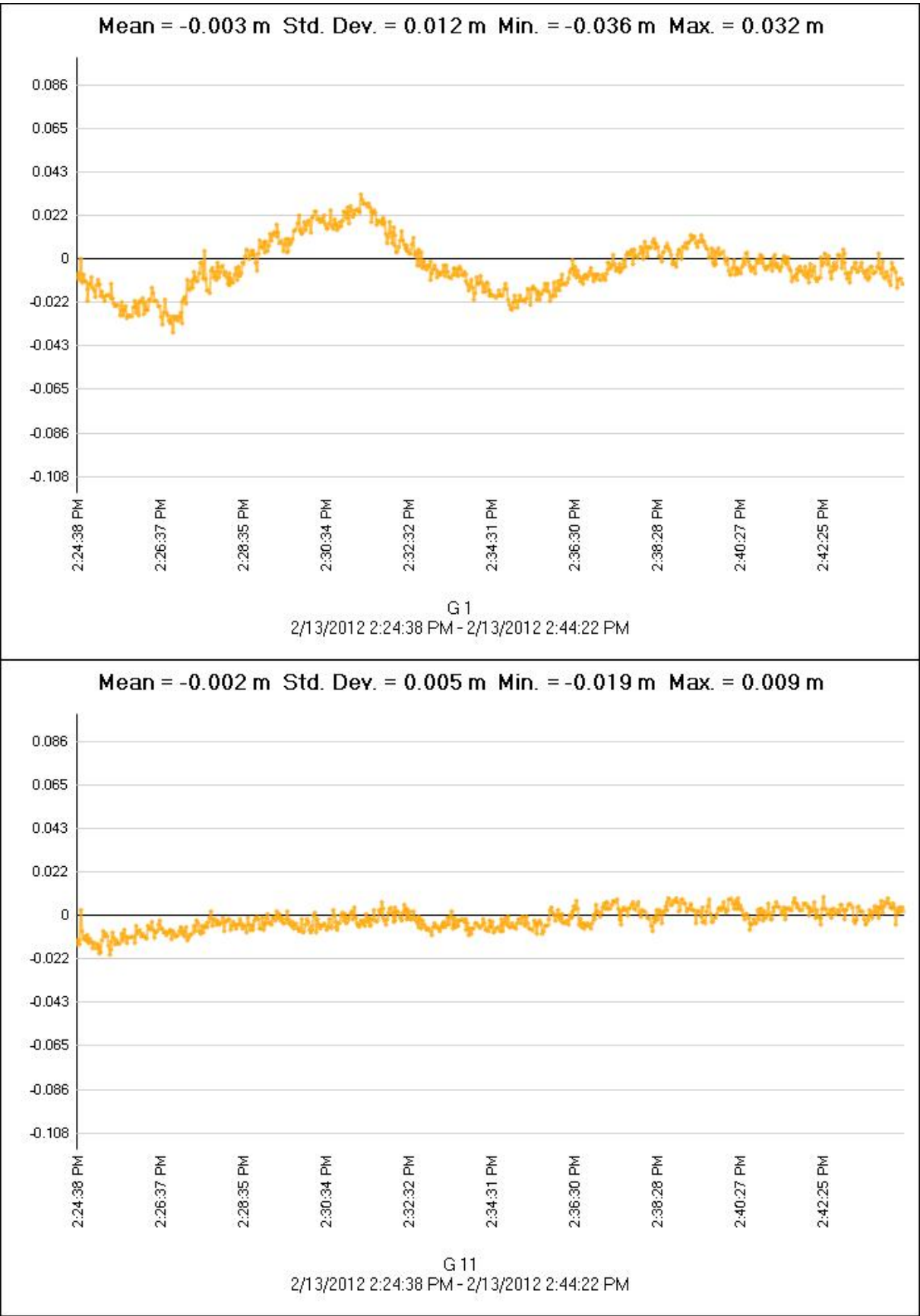
Occupations

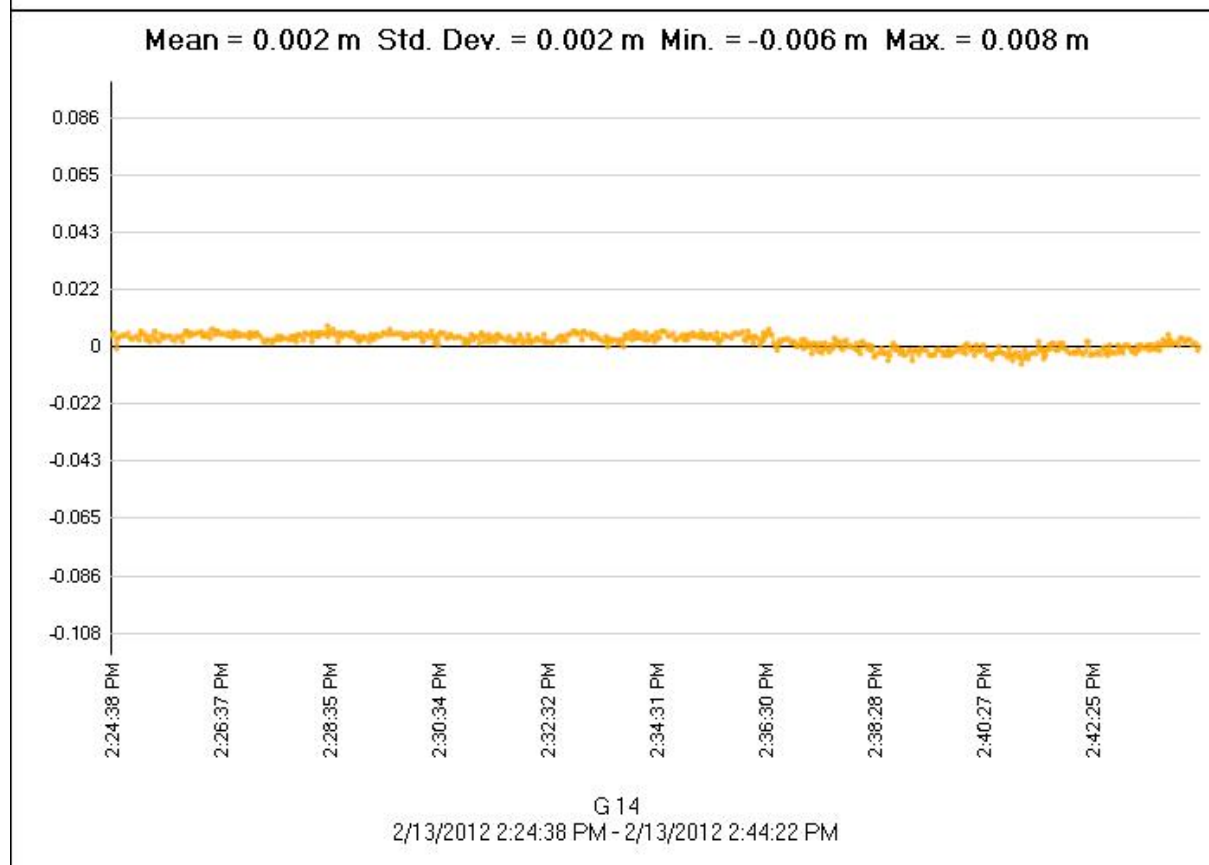
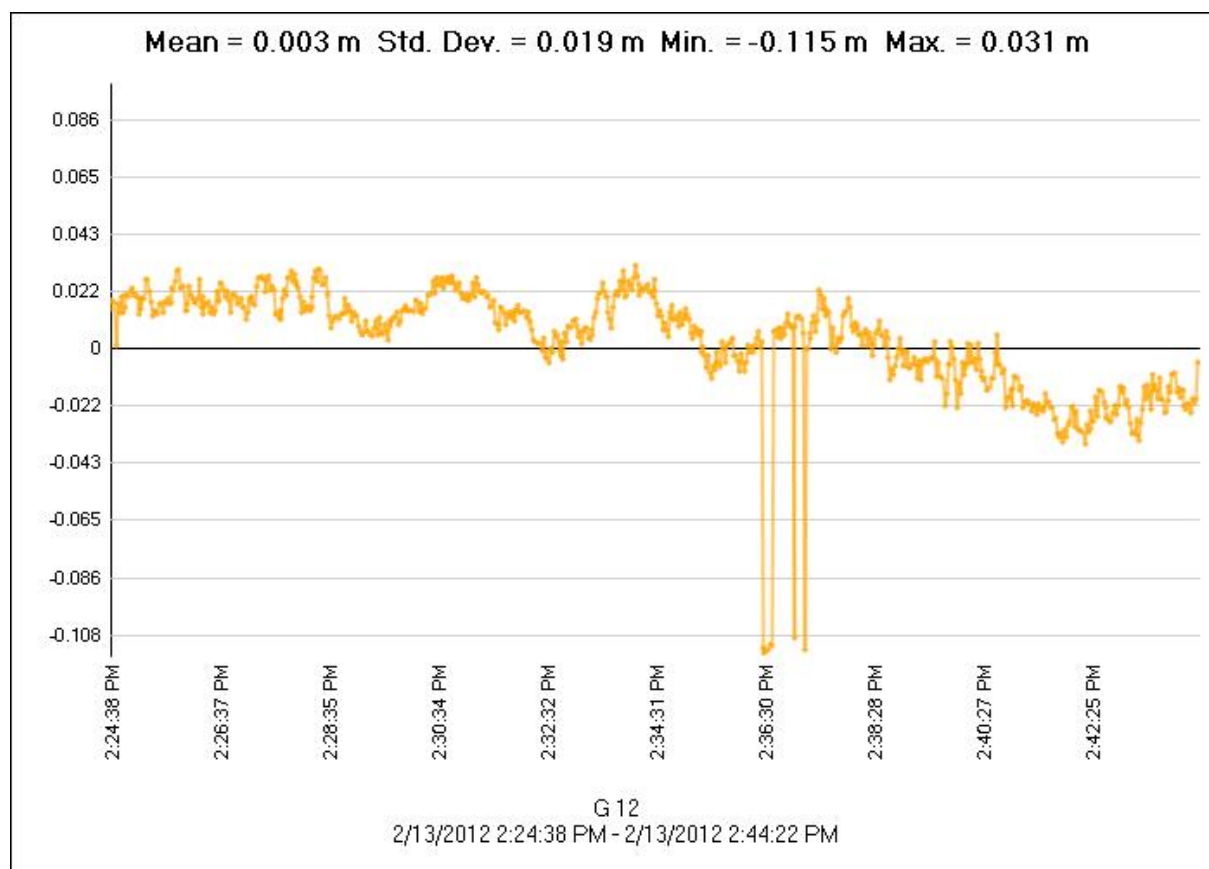
	From	To
Point ID:	JH0456	SVA17-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00040442.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

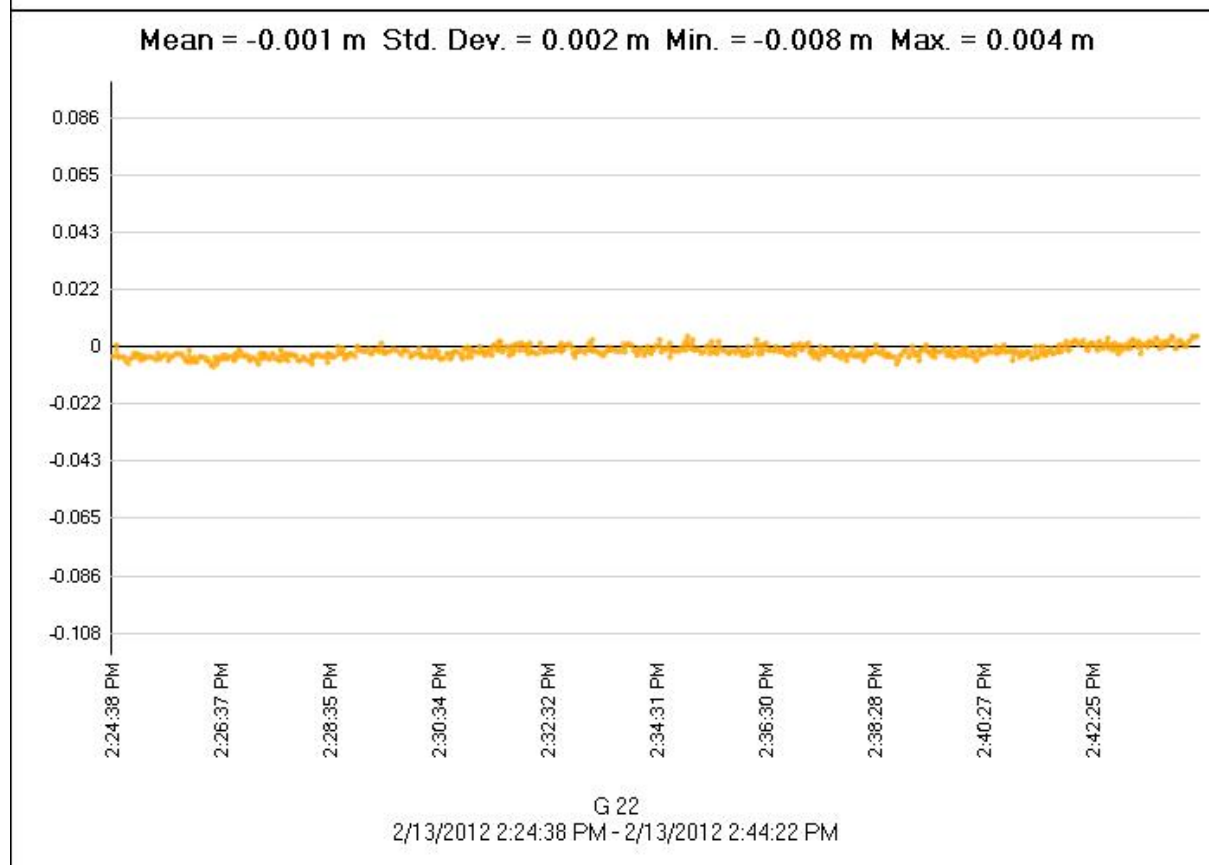
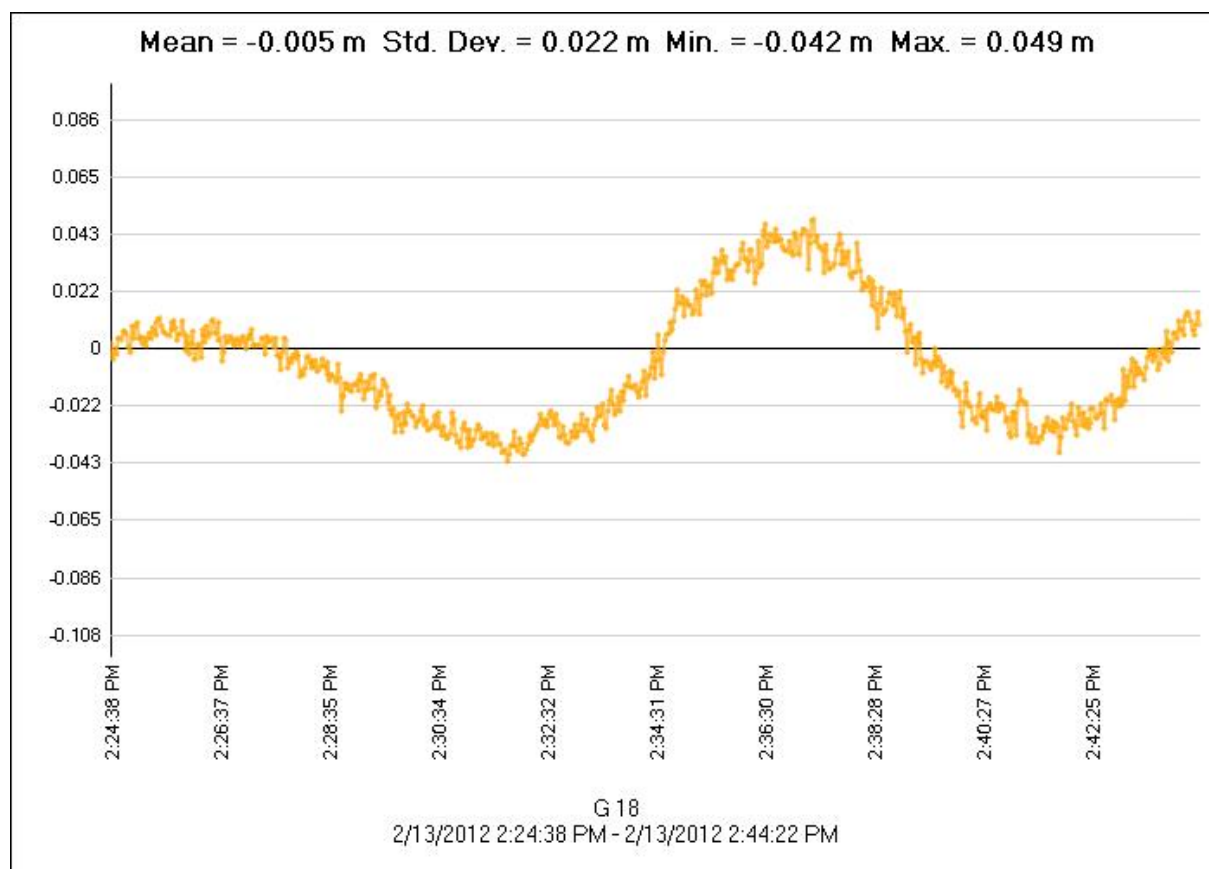
Tracking Summary

SV	2/13/2012 2:24:36 PM	Duration: 00:19:46	Major interval: 00:01:00	2/13/2012 2:44:22 PM
G1				
G9				
G11				
G12				
G14				
G18				
G19				
G22				
G25				
G31				
G32				

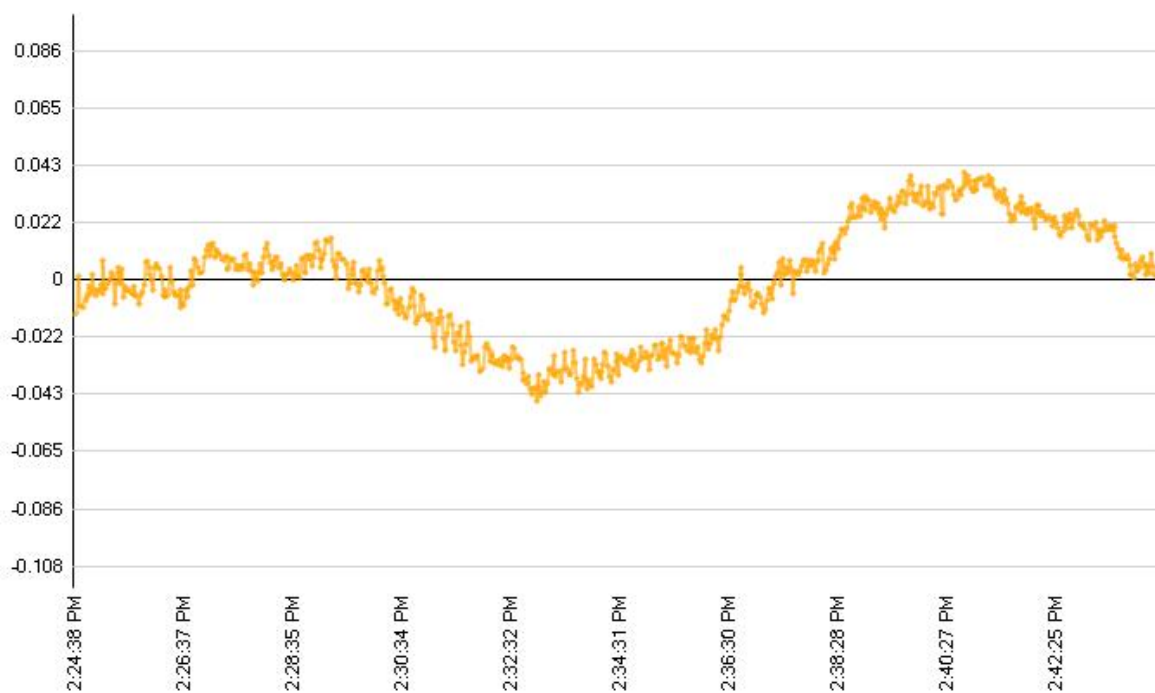
Residuals





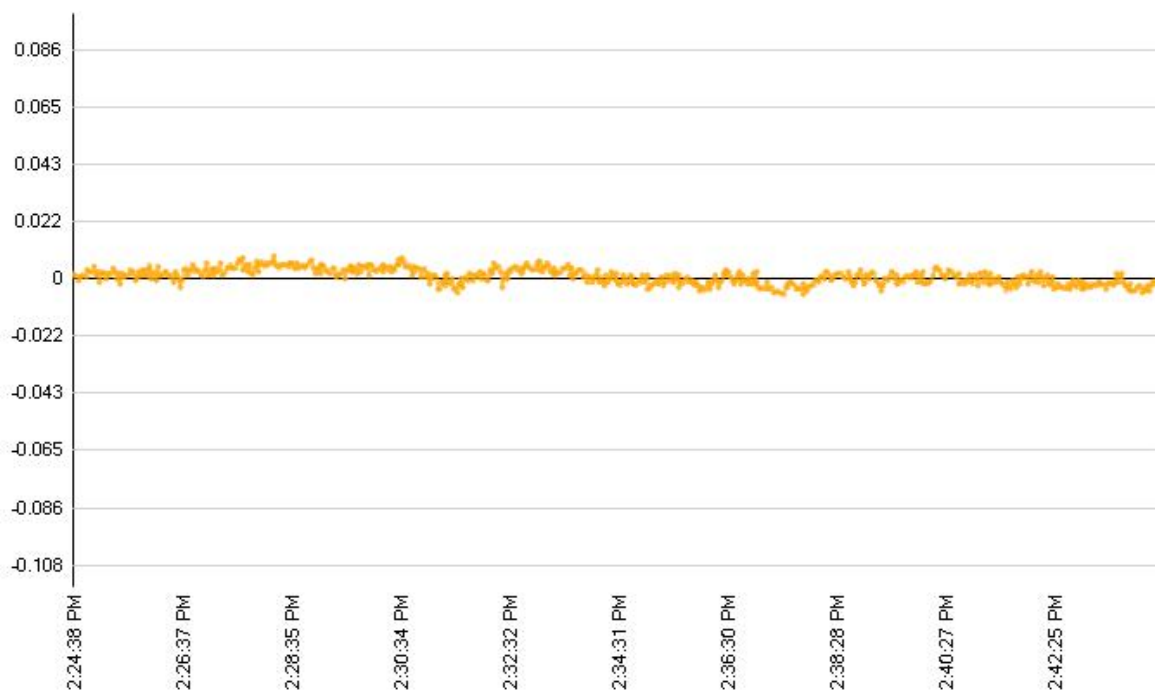


Mean = 0.000 m Std. Dev. = 0.021 m Min. = -0.046 m Max. = 0.040 m

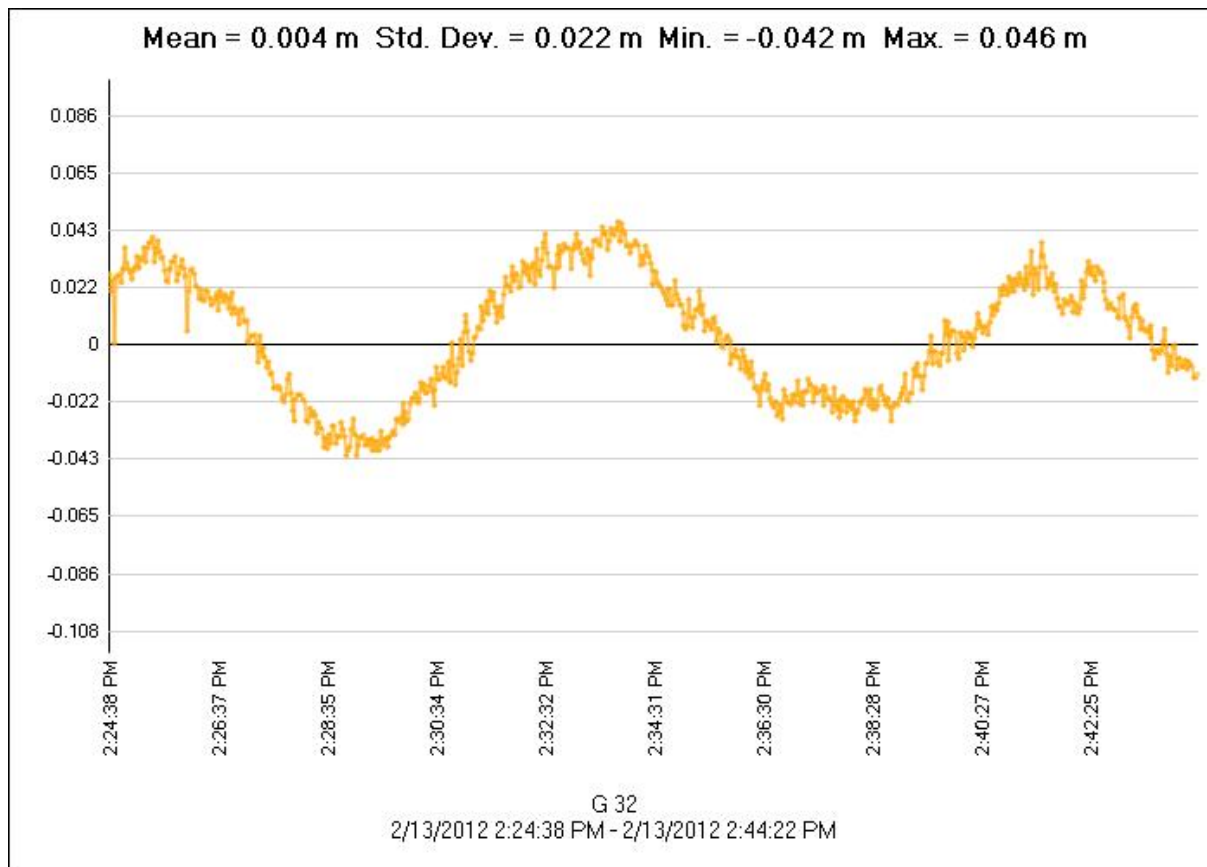


G 25
2/13/2012 2:24:38 PM - 2/13/2012 2:44:22 PM

Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.006 m Max. = 0.009 m



G 31
2/13/2012 2:24:38 PM - 2/13/2012 2:44:22 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA04-B2-EXTRA (3:34:27 PM-3:53:46 PM) (S144)

Baseline observation: JH0456 --- SVA04-B2-EXTRA (B144)

Processed: 3/21/2012 1:44:36 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.013 m

Vertical precision: 0.017 m

RMS: 0.002 m

Maximum PDOP: 2.254

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 3:34:27 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 3:53:46 PM (Local: UTC-7hr)

Processing duration: 00:19:18

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA04-B2-EXTRA				
Grid		Local		Global	
Easting	337252.809 m	Latitude	N38°42'49.28676"	Latitude	N38°42'49.28676"
Northing	4286668.366 m	Longitude	W100°52'18.77811"	Longitude	W100°52'18.77811"
Elevation	925.080 m	Height	900.273 m	Height	900.273 m

Vector					
9Ughb[	1989.961 m	NS Fwd Azimuth	3°12'22"	L	4491.088 m
Bcfh\jb[	25953.070 m	Ellipsoid Dist.	26031.066 m	M	15638.625 m
9`Yj Uhcb	13.442 m	<Y][\h	13.552 m	N	20324.113 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point B	0.005 m	Point C	0.005 m	Point M	0.006 m
Point D	0.009 m	Point E	0.009 m	Point N	0.008 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000091599		
Y	0.0000087594	0.0000341876	
Z	-0.0000061788	-0.0000261151	0.0000640863

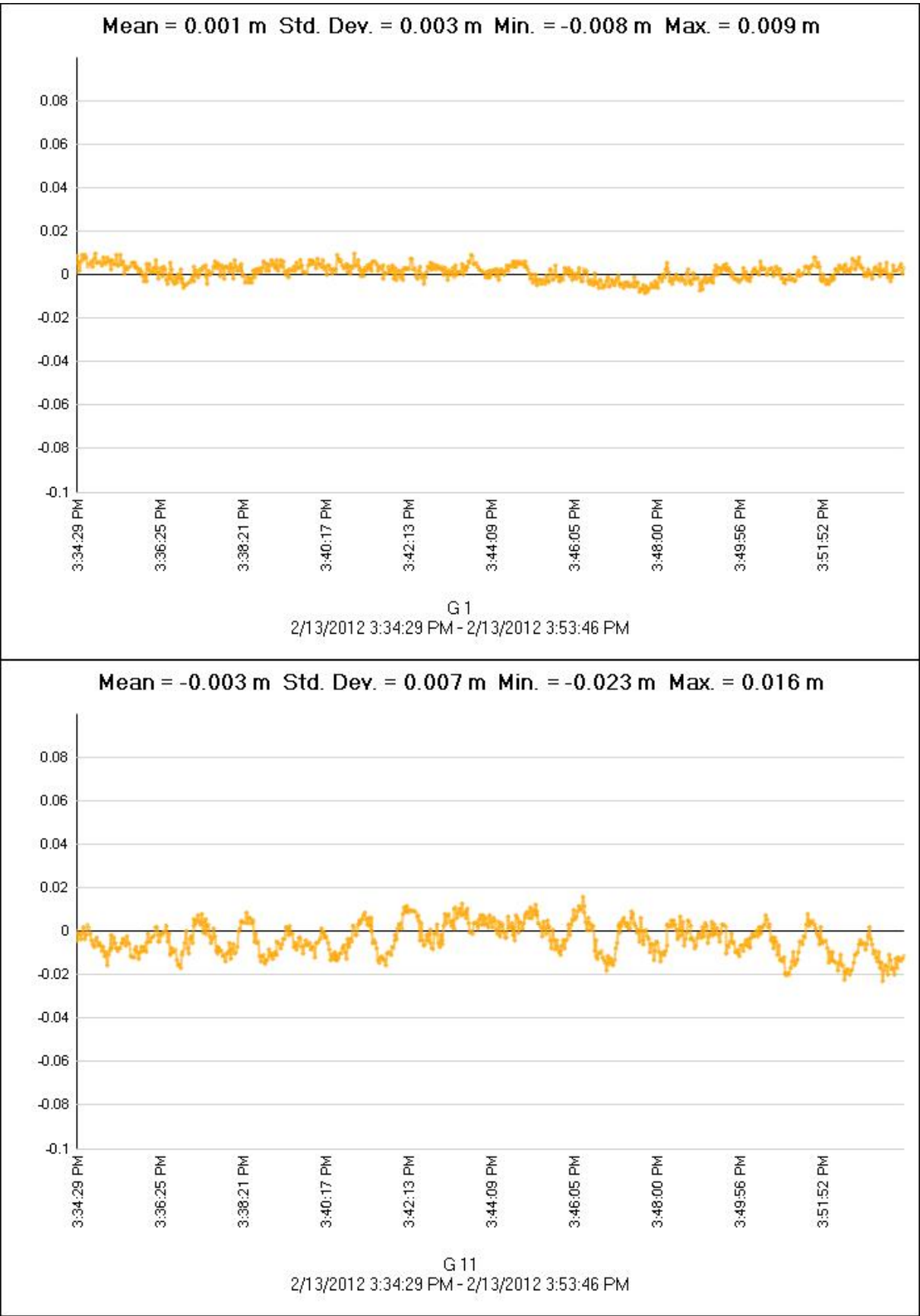
Occupations

	From	To
Point ID:	JH0456	SVA04-B2-EXTRA
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040443.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

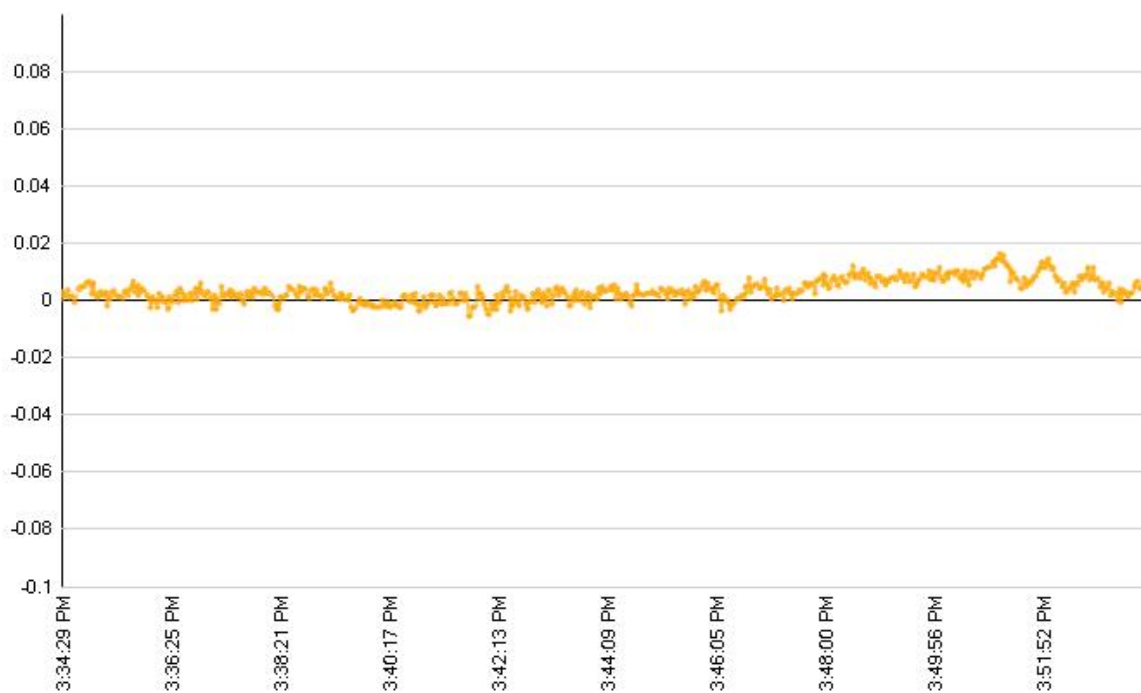
Tracking Summary



Residuals



Mean = 0.003 m Std. Dev. = 0.004 m Min. = -0.005 m Max. = 0.017 m



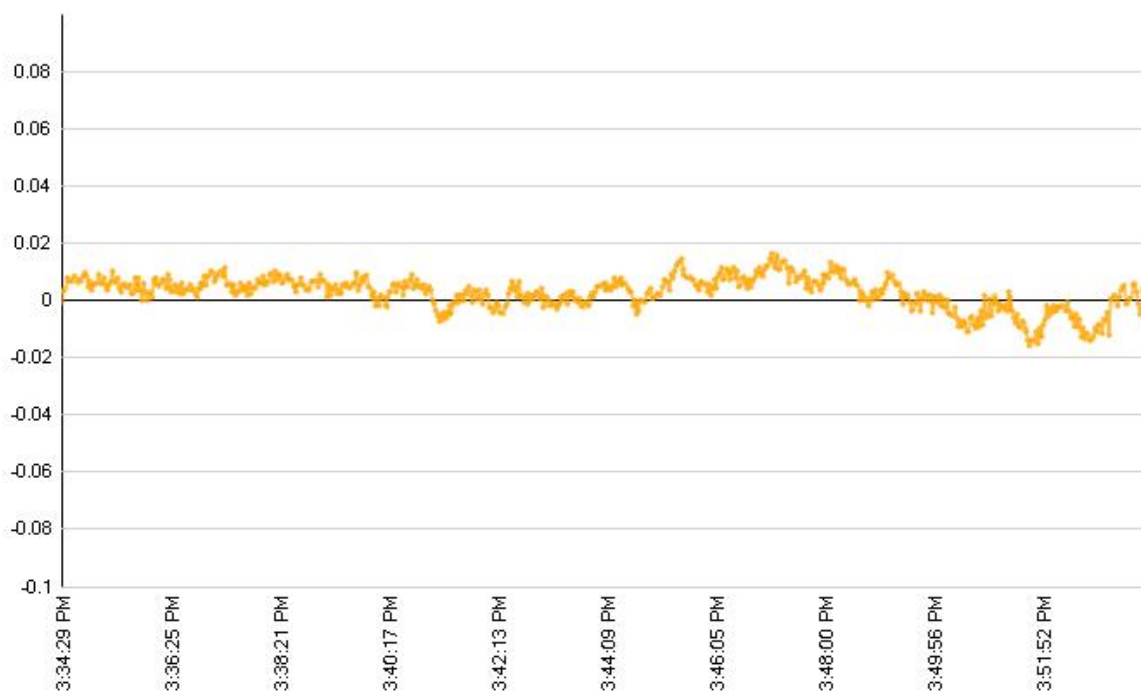
G 14
2/13/2012 3:34:29 PM - 2/13/2012 3:53:46 PM

Mean = 0.004 m Std. Dev. = 0.013 m Min. = -0.025 m Max. = 0.038 m



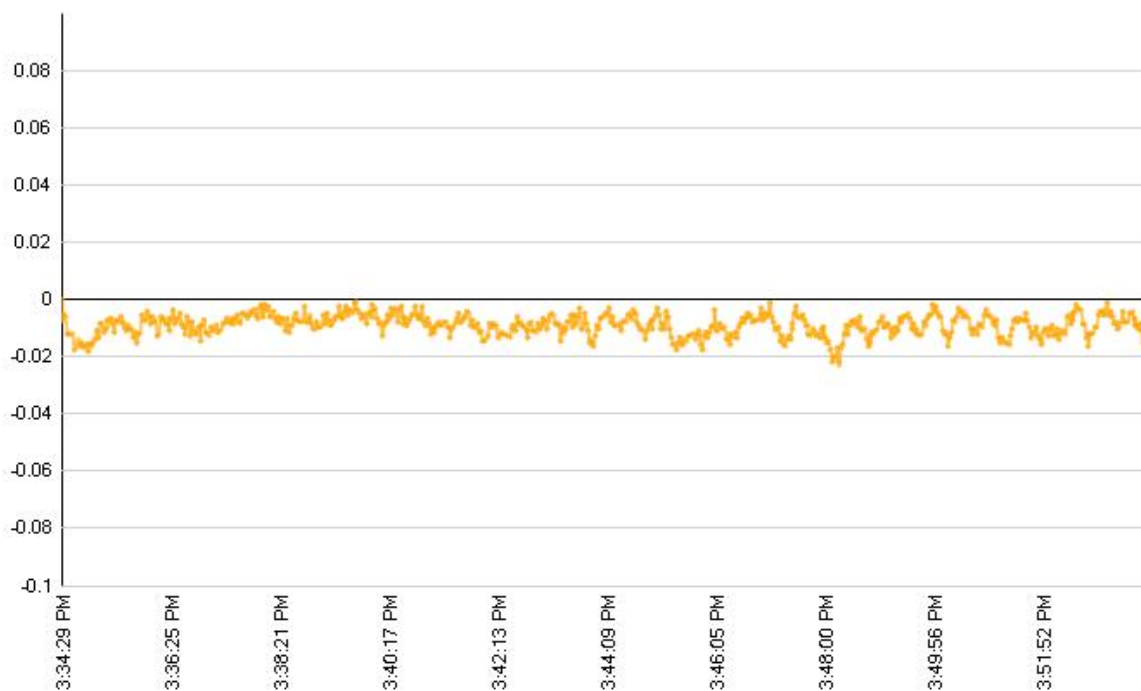
G 20
2/13/2012 3:34:29 PM - 2/13/2012 3:53:46 PM

Mean = 0.002 m Std. Dev. = 0.005 m Min. = -0.016 m Max. = 0.016 m



G 22
2/13/2012 3:34:29 PM - 2/13/2012 3:53:46 PM

Mean = -0.008 m Std. Dev. = 0.004 m Min. = -0.023 m Max. = 0.001 m



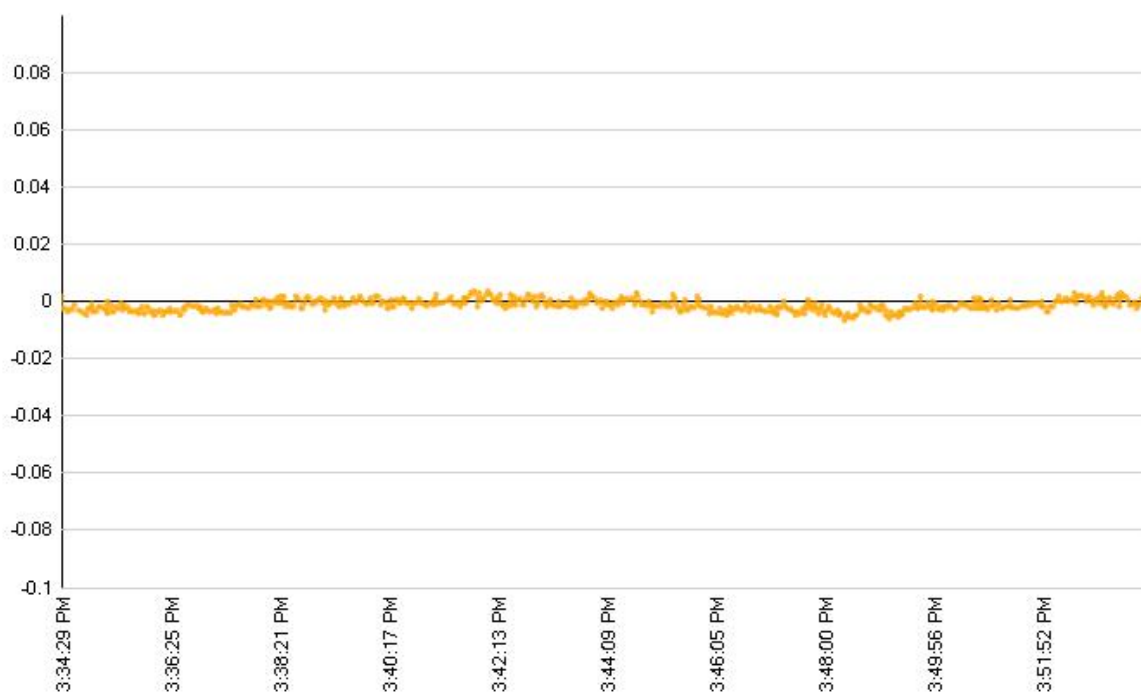
G 25
2/13/2012 3:34:29 PM - 2/13/2012 3:53:46 PM

Mean = 0.000 m Std. Dev. = 0.016 m Min. = -0.043 m Max. = 0.031 m

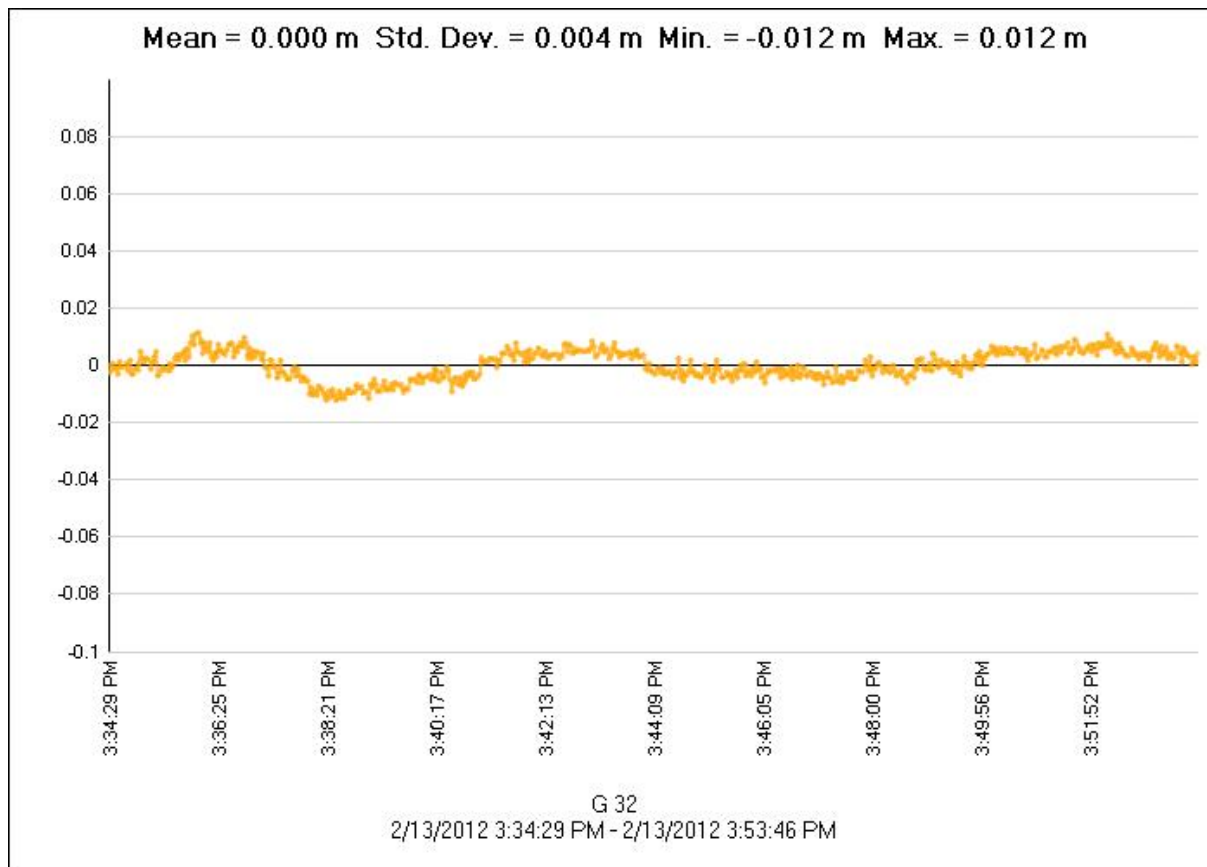


G 30
2/13/2012 3:34:29 PM - 2/13/2012 3:53:46 PM

Mean = -0.001 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.004 m



G 31
2/13/2012 3:34:29 PM - 2/13/2012 3:53:46 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA51-B2 (4:29:04 PM-4:48:46 PM) (S146)

Baseline observation: JH0456 --- SVA51-B2 (B146)

Processed: 3/21/2012 1:44:49 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.013 m

RMS: 0.003 m

Maximum PDOP: 1.697

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 4:29:04 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 4:48:46 PM (Local: UTC-7hr)

Processing duration: 00:19:42

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA51-B2				
Grid		Local		Global	
Easting	326353.387 m	Latitude	N38°39'23.63489"	Latitude	N38°39'23.63488"
Northing	4280555.822 m	Longitude	W100°59'44.32847"	Longitude	W100°59'44.32847"
Elevation	948.184 m	Height	923.521 m	Height	923.521 m

Vector					
9Ughb[	-8909.461 m	NS Fwd Azimuth	334°38'22"	L	-6838.878 m
Bcfh\jb[	19840.527 m	Ellipsoid Dist.	21750.169 m	M	13771.342 m
9`Yj Uhcb	36.547 m	<Y][\h	36.800 m	N	15387.826 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point B	0.004 m	Point C	0.004 m	Point M	0.006 m
Point D	0.007 m	Point E	0.007 m	Point N	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000098106		
Y	0.0000069290	0.0000399114	
Z	-0.0000010888	-0.0000123442	0.0000183191

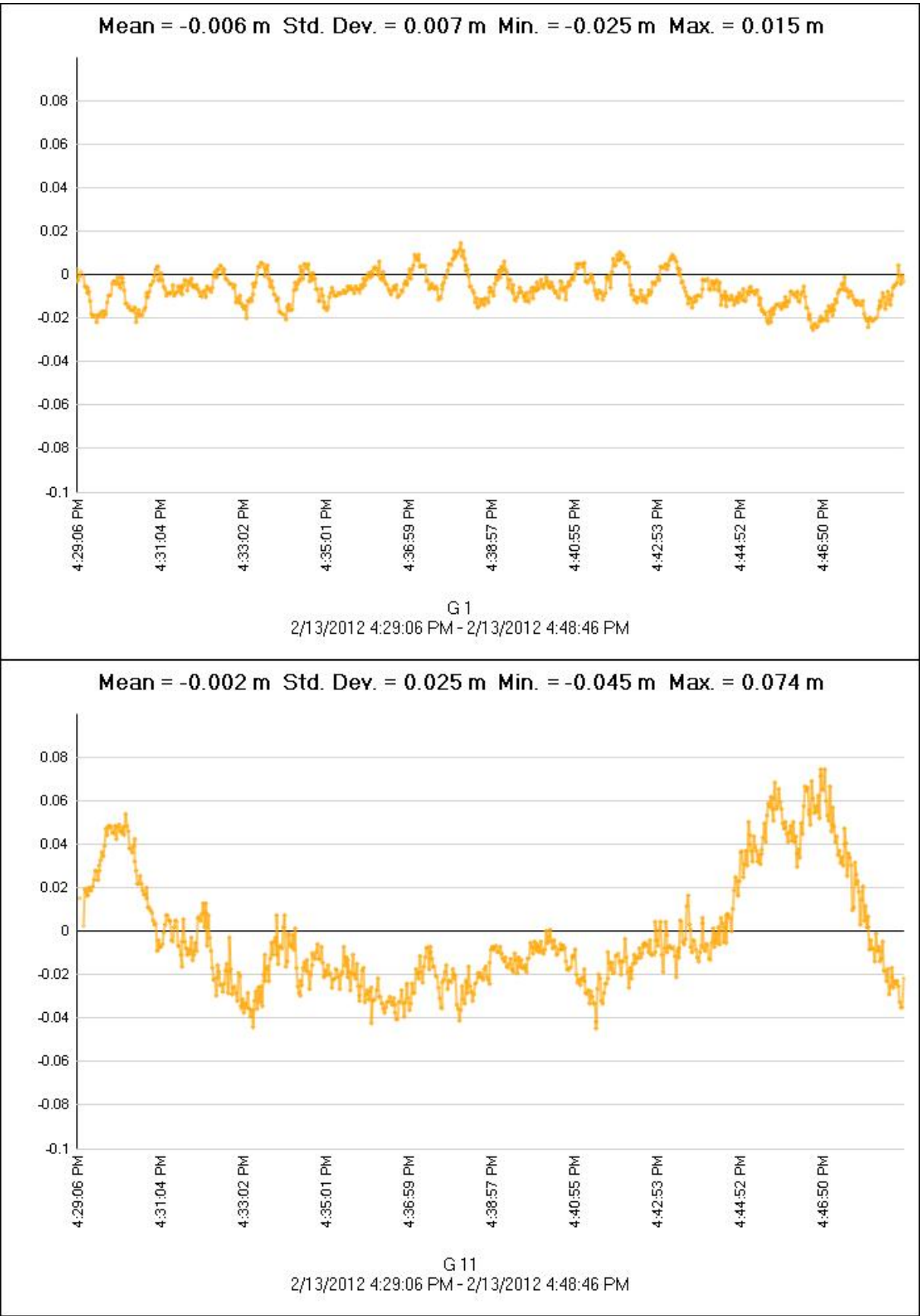
Occupations

	From	To
Point ID:	JH0456	SVA51-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040444.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

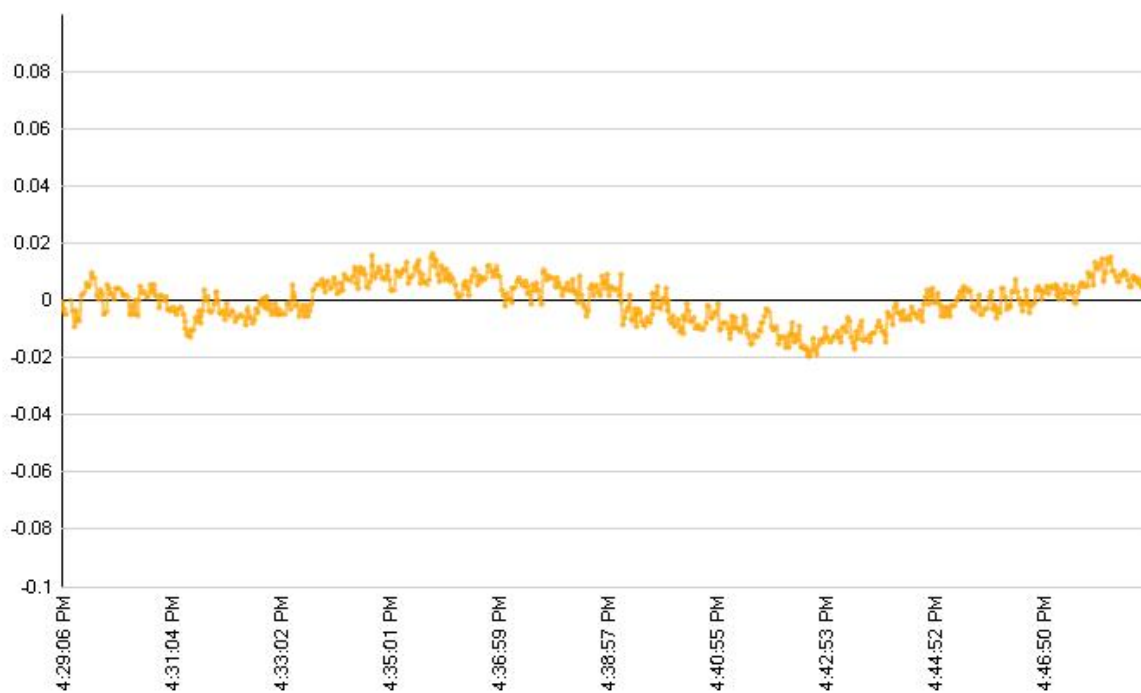
Tracking Summary

SV	2/13/2012 4:29:04 PM	Duration: 00:19:42	Major interval: 00:01:00	2/13/2012 4:48:46 PM
G 1				
G 11				
G 14				
G 16				
G 20				
G 22				
G 23				
G 25				
G 30				
G 31				
G 32				

Residuals



Mean = 0.000 m Std. Dev. = 0.007 m Min. = -0.019 m Max. = 0.016 m



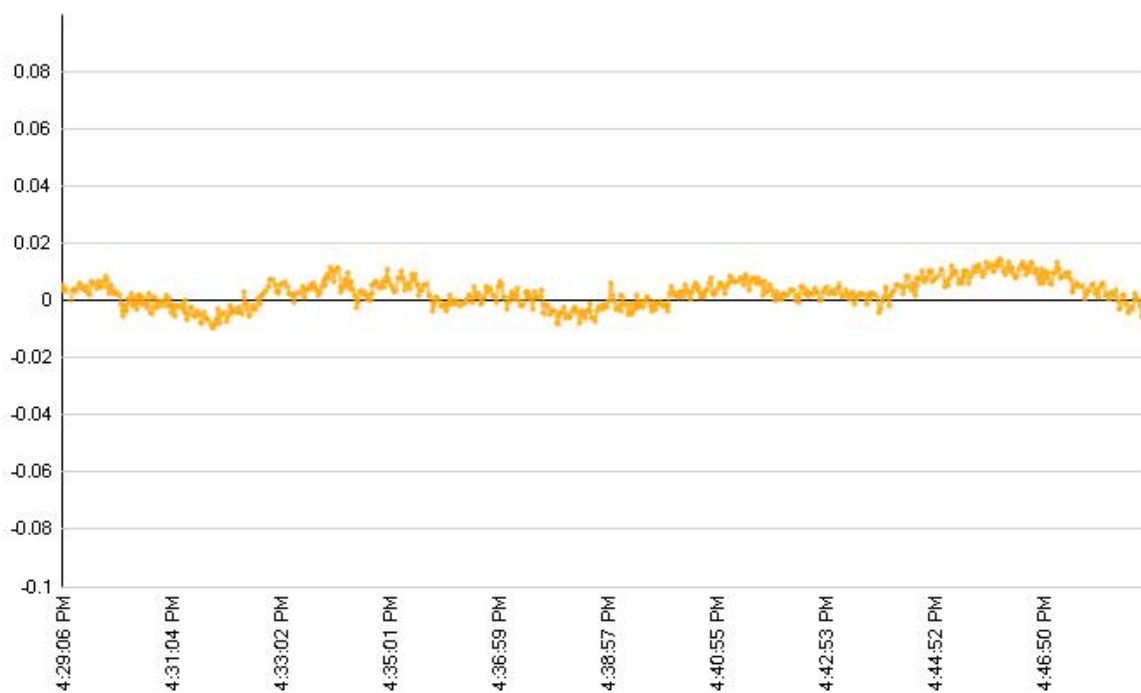
G 14
2/13/2012 4:29:06 PM - 2/13/2012 4:48:46 PM

Mean = 0.004 m Std. Dev. = 0.023 m Min. = -0.054 m Max. = 0.056 m



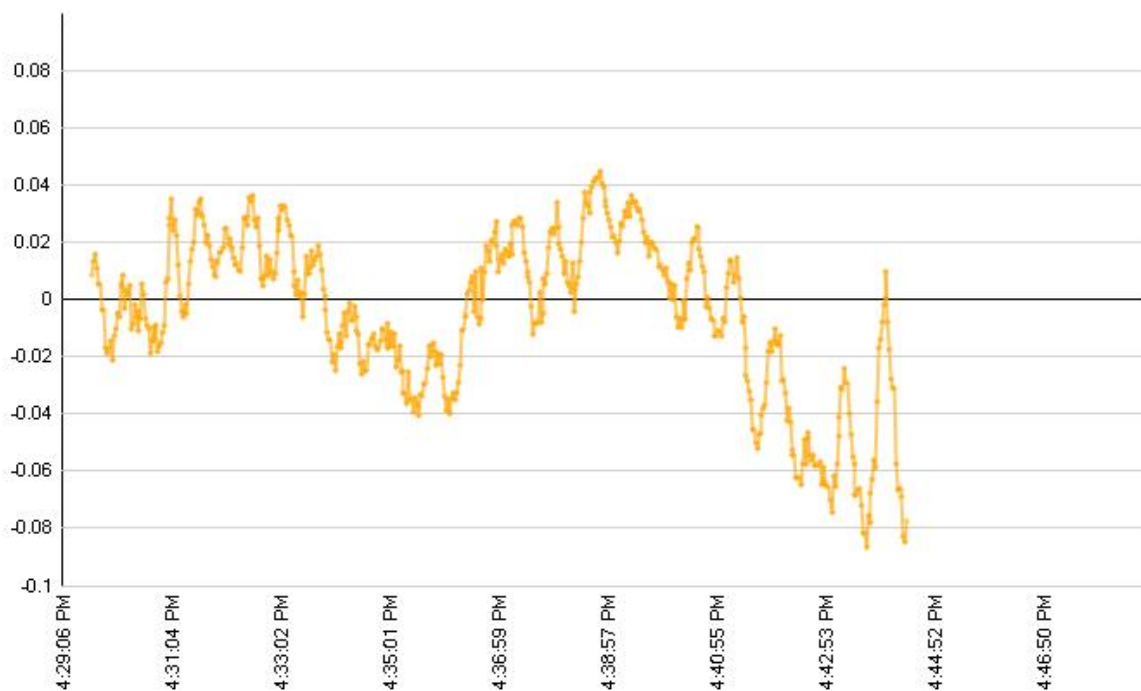
G 16
2/13/2012 4:29:06 PM - 2/13/2012 4:48:46 PM

Mean = 0.002 m Std. Dev. = 0.004 m Min. = -0.009 m Max. = 0.015 m



G 20
2/13/2012 4:29:06 PM - 2/13/2012 4:48:46 PM

Mean = -0.005 m Std. Dev. = 0.028 m Min. = -0.086 m Max. = 0.045 m



G 22
2/13/2012 4:29:06 PM - 2/13/2012 4:48:46 PM

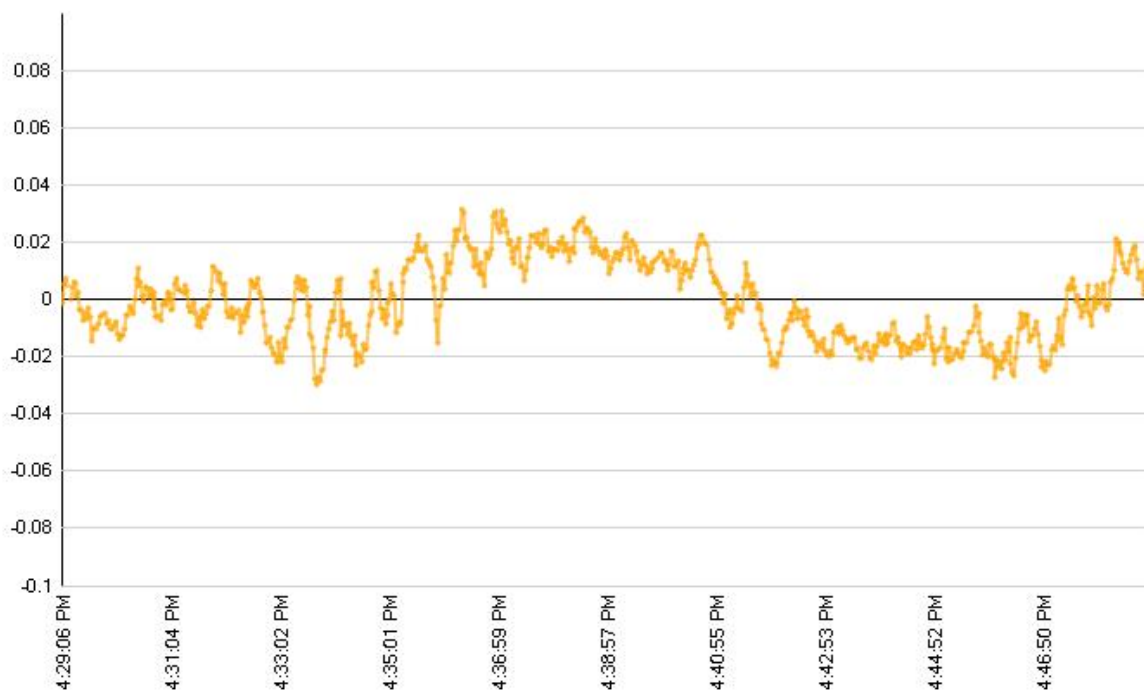
Mean = 0.004 m Std. Dev. = 0.019 m Min. = -0.043 m Max. = 0.047 m



G 23

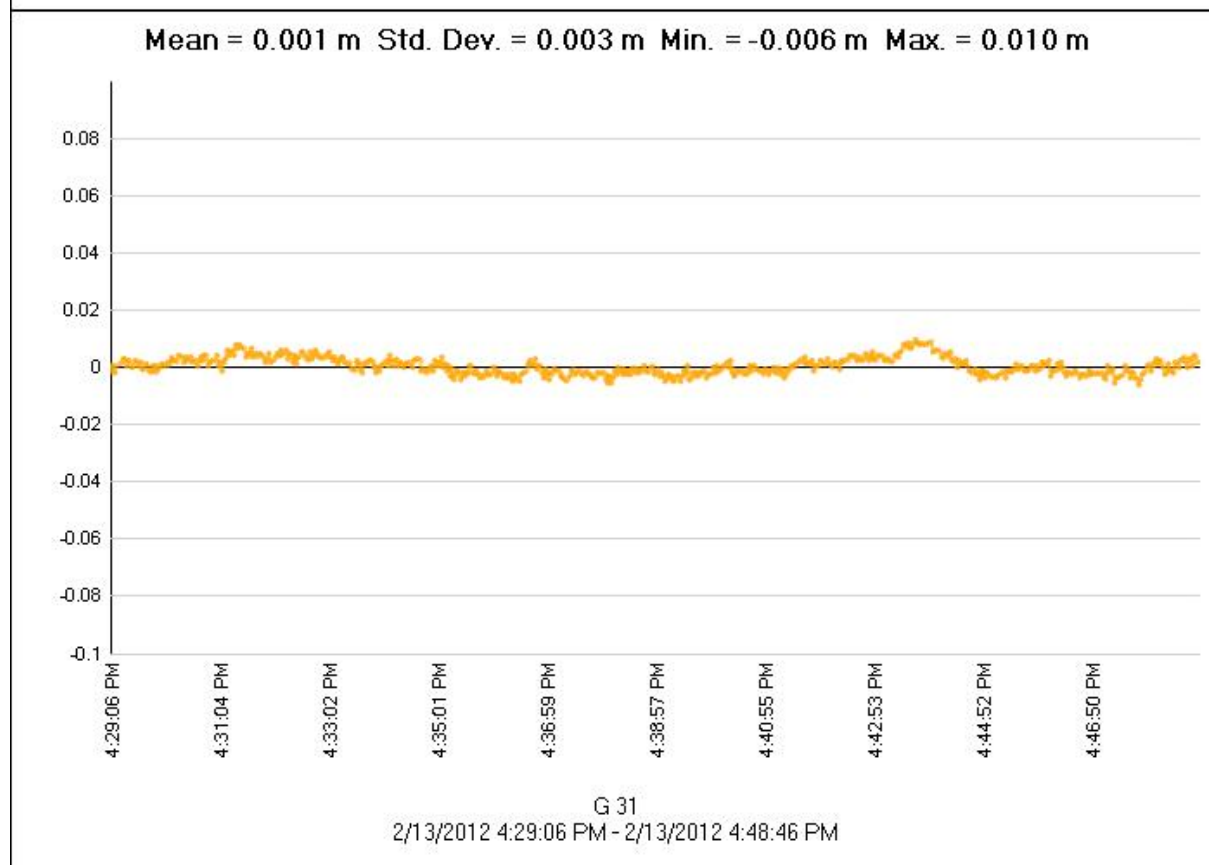
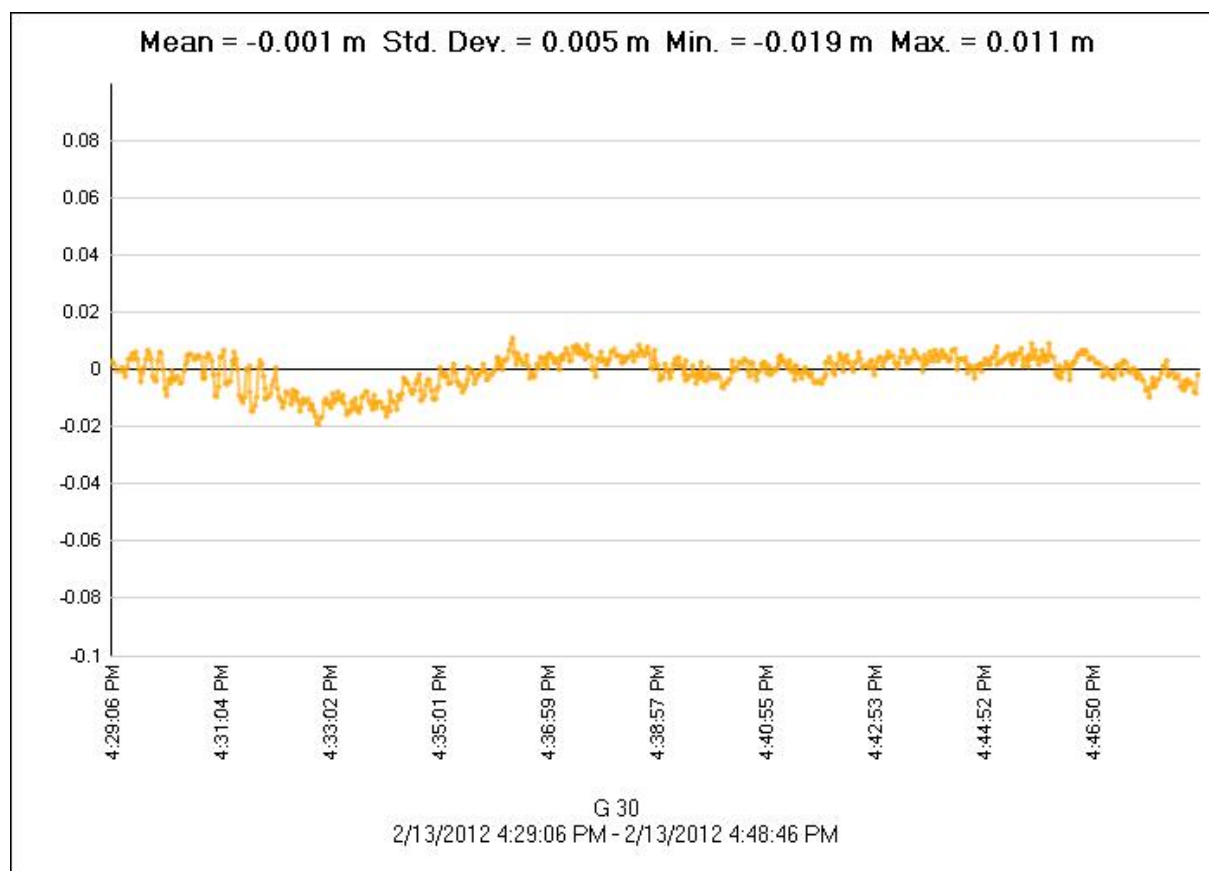
2/13/2012 4:29:06 PM - 2/13/2012 4:46:46 PM

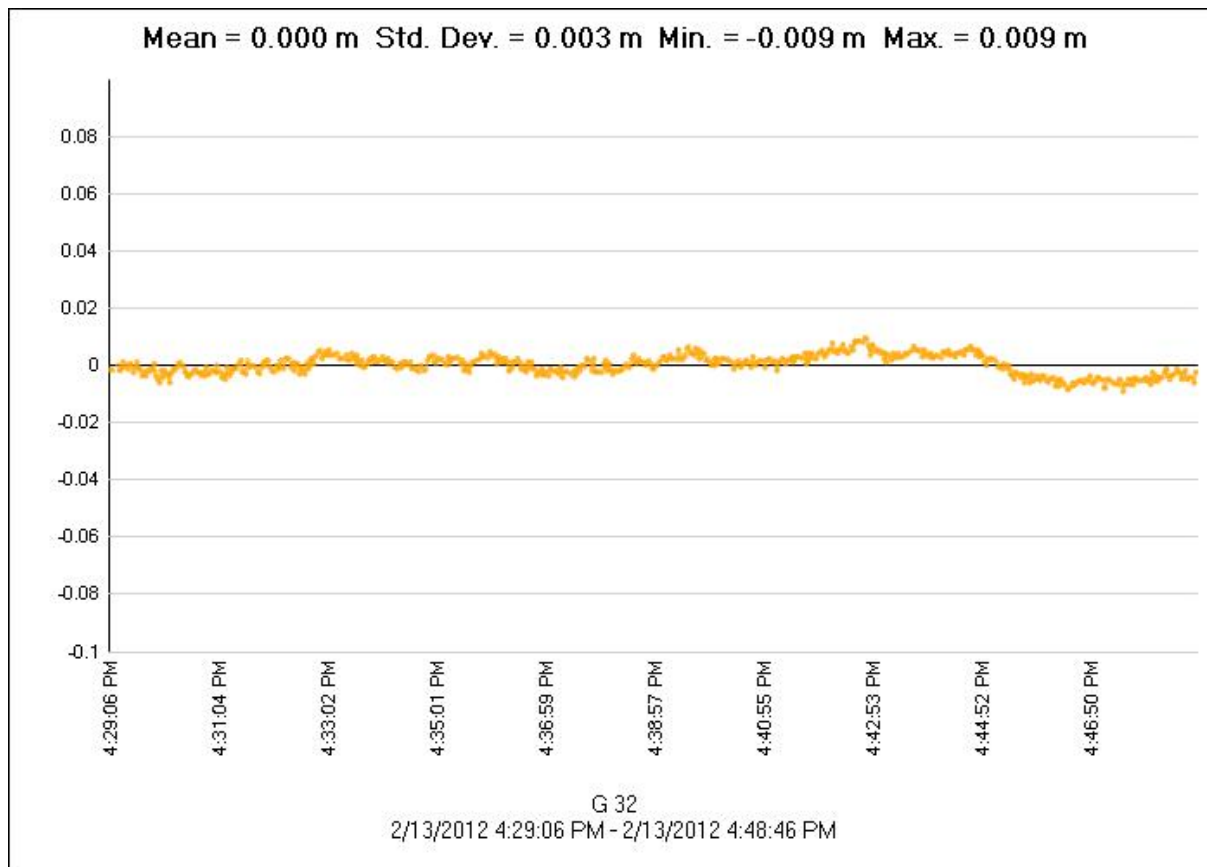
Mean = -0.001 m Std. Dev. = 0.013 m Min. = -0.030 m Max. = 0.031 m



G 25

2/13/2012 4:29:06 PM - 2/13/2012 4:46:46 PM






Processing style

Elevation mask: 10.0 deg
 Auto start processing: Yes
 Start automatic ID numbering: AUTO0001
 Continuous vectors: No
 Generate residuals: Yes
 Antenna model: Automatic
 Ephemeris type: Automatic
 Frequency: Dual Frequency (L1, L2)
 Processing Interval: Use all data
 Force float: No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA03-B2 (5:13:24 PM-5:33:08 PM) (S148)

Baseline observation: JH0456 --- SVA03-B2 (B148)

Processed: 3/21/2012 1:44:42 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.019 m

Vertical precision: 0.016 m

RMS: 0.002 m

Maximum PDOP: 3.032

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/13/2012 5:13:24 PM (Local: UTC-7hr)

Processing stop time: 2/13/2012 5:33:08 PM (Local: UTC-7hr)

Processing duration: 00:19:44

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335262.848 m	Latitude	N38°28'46.42092"	Latitude	N38°28'46.42092"
Northing	4260715.296 m	Longitude	W100°53'19.03927"	Longitude	W100°53'19.03927"
Elevation	911.638 m	Height	886.721 m	Height	886.721 m

To:	SVA03-B2				
Grid		Local		Global	
Easting	322699.475 m	Latitude	N38°43'23.52497"	Latitude	N38°43'23.52497"
Northing	4288035.175 m	Longitude	W101°02'22.29928"	Longitude	W101°02'22.29928"
Elevation	910.731 m	Height	886.134 m	Height	886.134 m

Vector					
9Ughb[	-12563.372 m	NS Fwd Azimuth	334°07'31"	L	-9697.405 m
Bcfh\jb[	27319.879 m	Ellipsoid Dist.	30071.346 m	M	19069.177 m
9Yj Uhcb	-0.907 m	<Y][\h	-0.587 m	N	21139.131 m

Standard Errors

Vector errors:					
Ughb[	0.005 m	BG`Zk X'5n]a i h	0°00'00"	L	0.006 m
Bcfh\]b[	0.007 m	'9~]dgc]X'8]gh	0.005 m	M	0.007 m
'9`Yj Uhcb	0.008 m	' <Y][\h	0.008 m	N	0.008 m

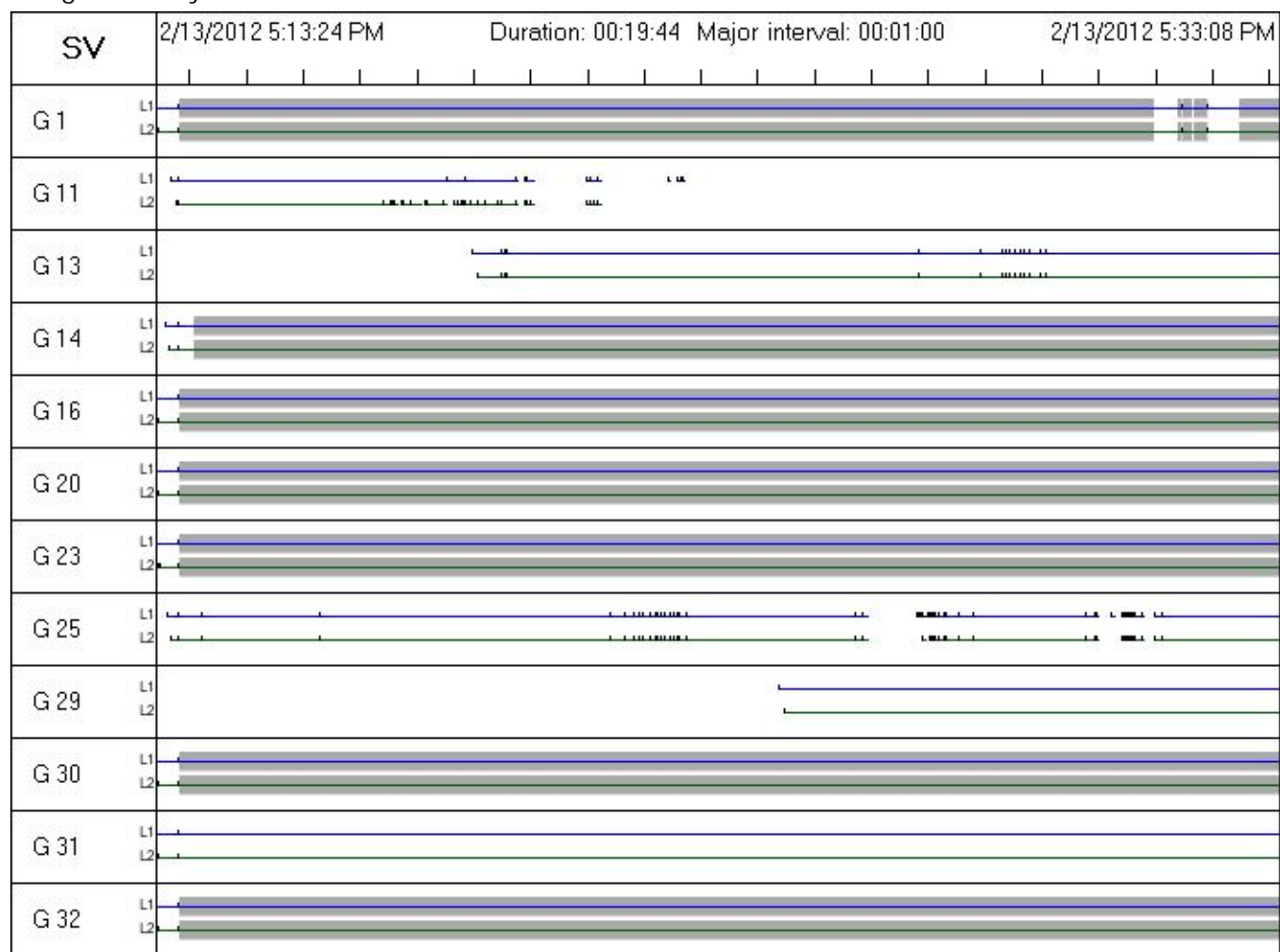
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000324673		
Y	0.0000124073	0.0000465915	
Z	0.0000233896	-0.0000192270	0.0000613627

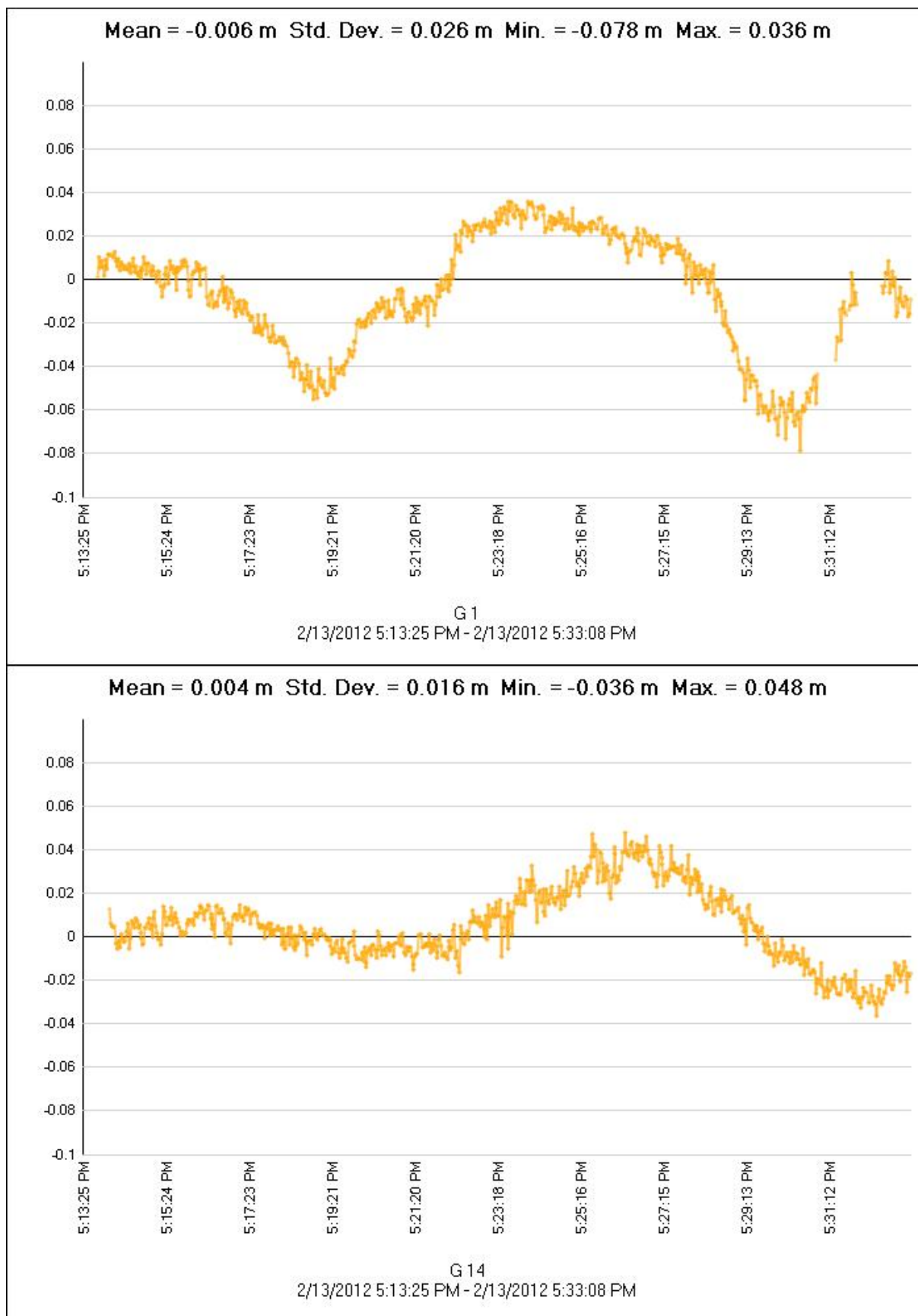
Occupations

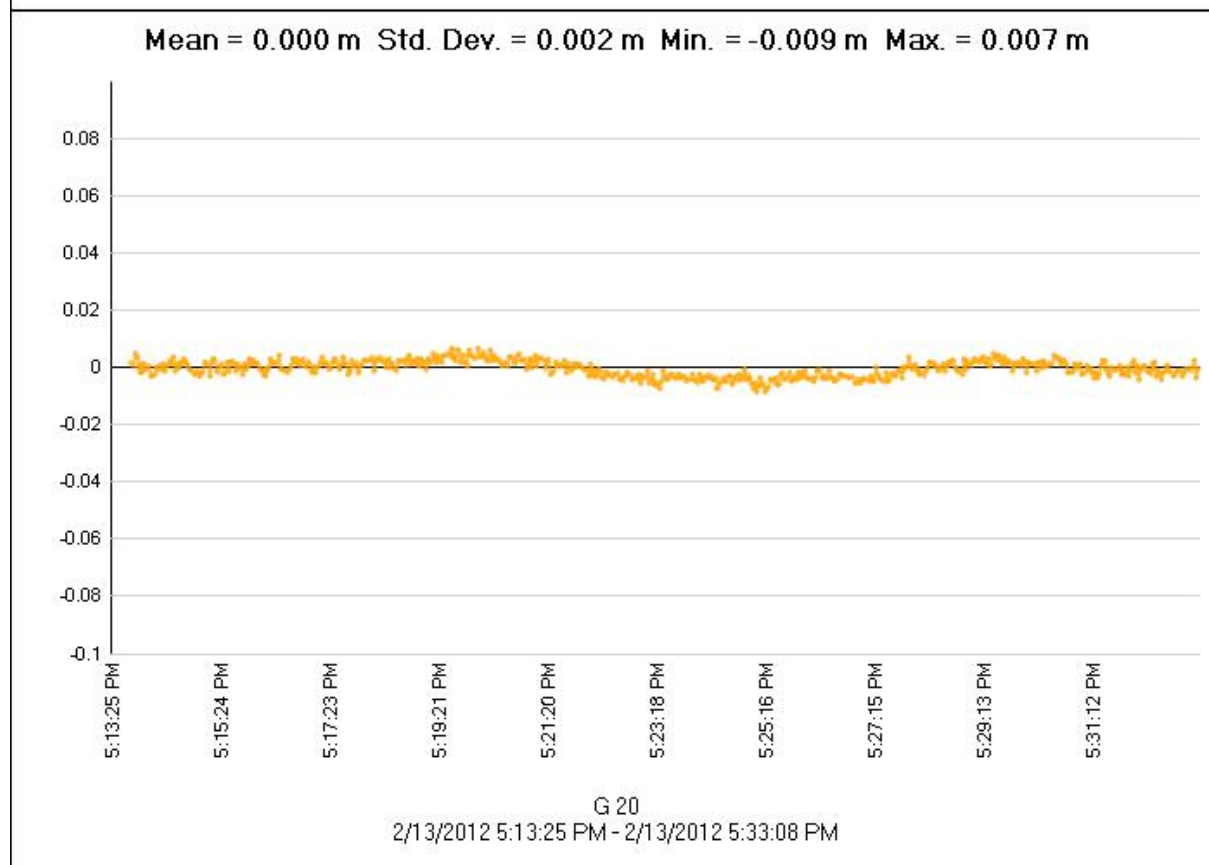
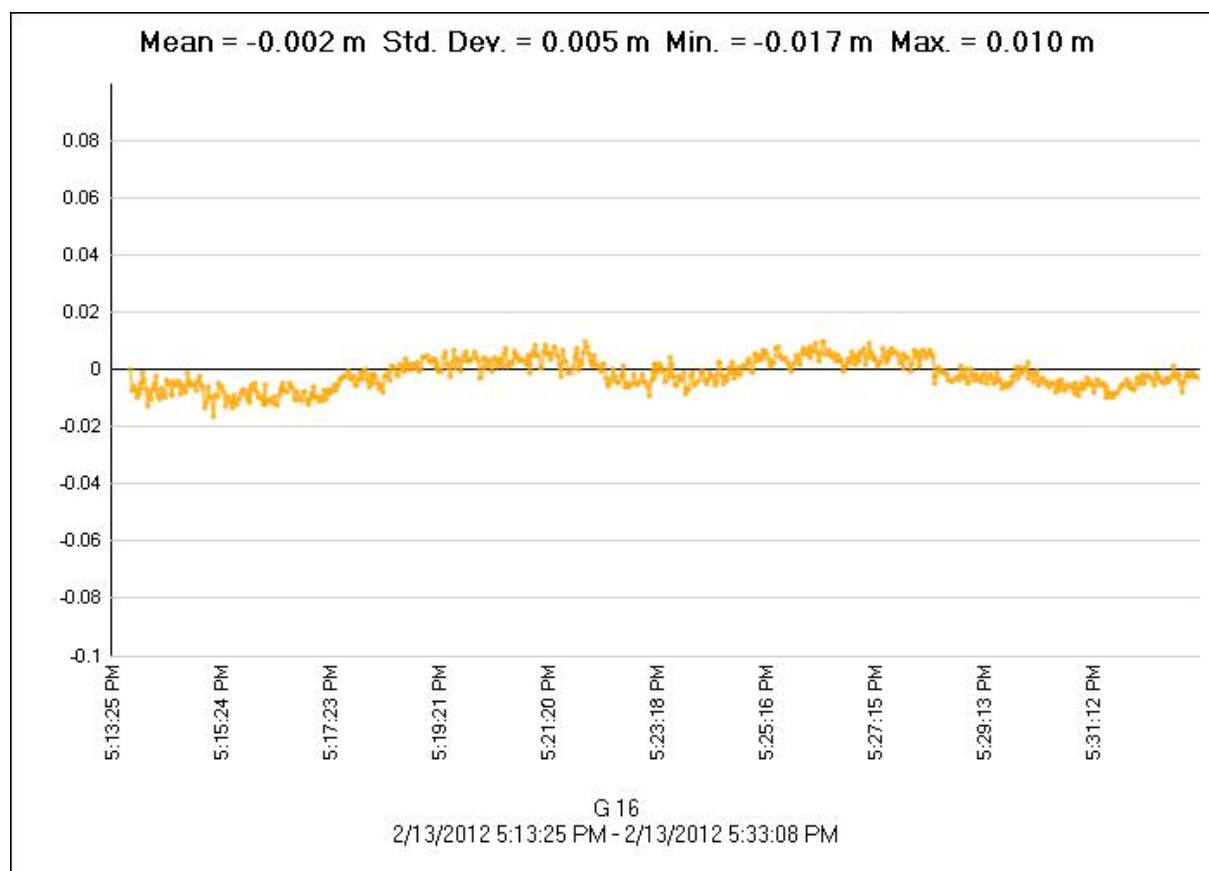
	From	To
Point ID:	JH0456	SVA03-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010440.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00040450.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

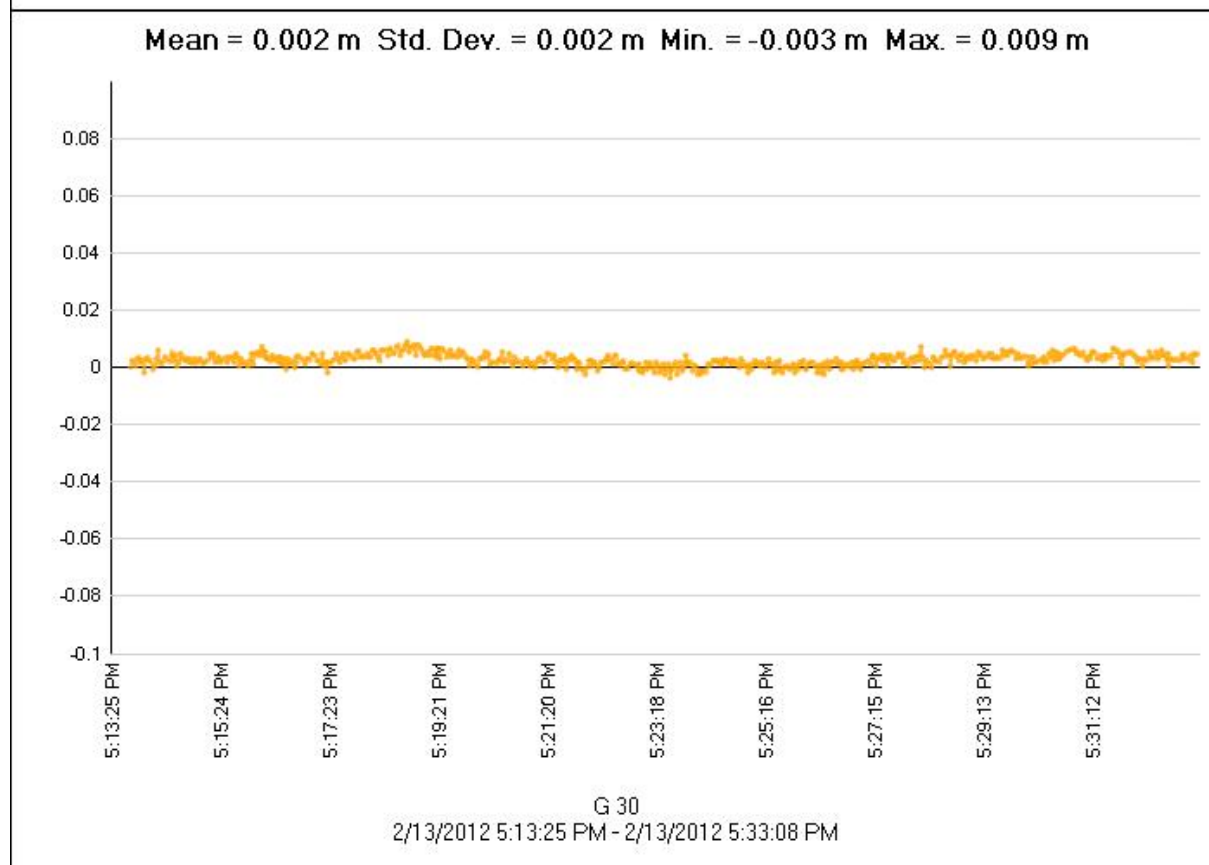
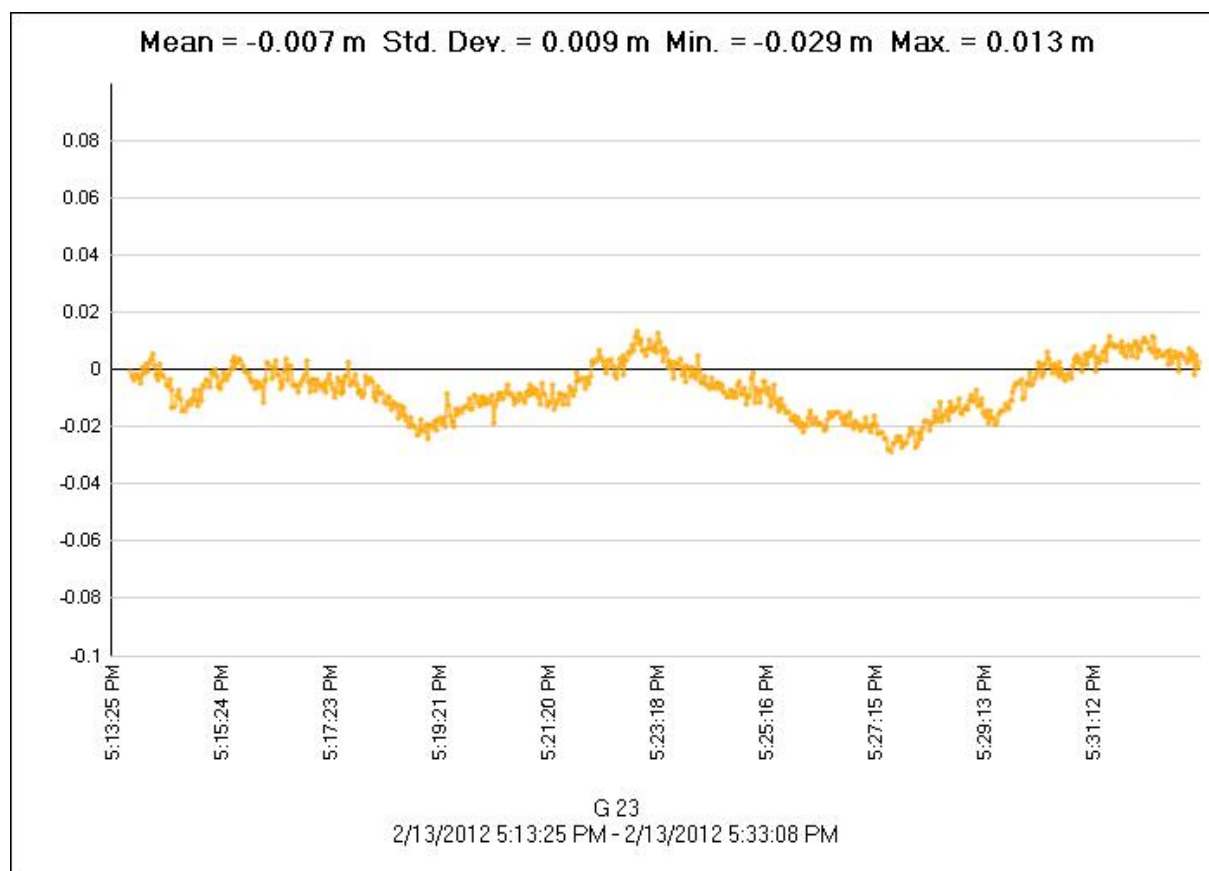
Tracking Summary

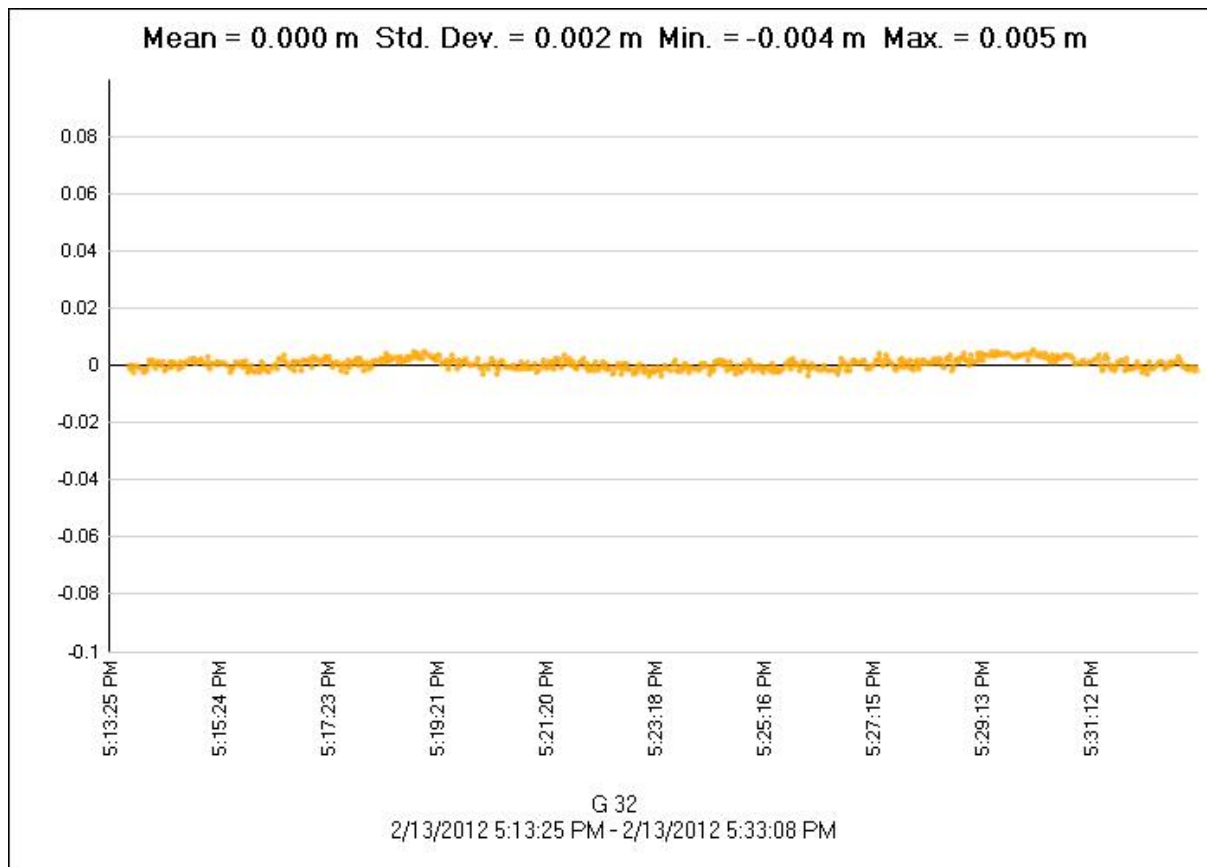


Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA22-B2 (10:07:00 AM-10:25:55 AM) (S149)

Baseline observation: JH0456 --- FVA22-B2 (B149)

Processed: 3/21/2012 2:59:22 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.101 m

Vertical precision: 0.074 m

RMS: 0.001 m

Maximum PDOP: 3.964

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 10:07:29 AM (Local: UTC-7hr)

Processing stop time: 2/14/2012 10:25:55 AM (Local: UTC-7hr)

Processing duration: 00:18:26

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA22-B2				
Grid		Local		Global	
Easting	392662.302 m	Latitude	N38°14'16.04104"	Latitude	N38°14'16.04104"
Northing	4232909.886 m	Longitude	W100°13'35.44010"	Longitude	W100°13'35.44010"
Elevation	803.925 m	Height	778.244 m	Height	778.244 m

Vector					
9Ughb[	57398.998 m	NS Fwd Azimuth	114°40'25"	L	53860.967 m
Bcfh\jb[	-27804.951 m	Ellipsoid Dist.	63789.757 m	M	-26895.573 m
9Yj Uhcb	-107.395 m	<Y][\h	-108.158 m	N	-21113.902 m

Standard Errors

Vector errors:					
σ _{Ughb}	0.013 m	σ _{BG'Zk X'5nJa i h}	0°00'00"	σ _L	0.020 m
σ _{Bcfh}	0.040 m	σ _{'9''dgc]X'8]gh}	0.010 m	σ _M	0.047 m
σ _{'9'Yj Uhcb}	0.038 m	σ _{'<Y][\h}	0.038 m	σ _N	0.023 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0004098748		
Y	0.0008431730	0.0022497957	
Z	0.0002276464	0.0002615121	0.0005293171

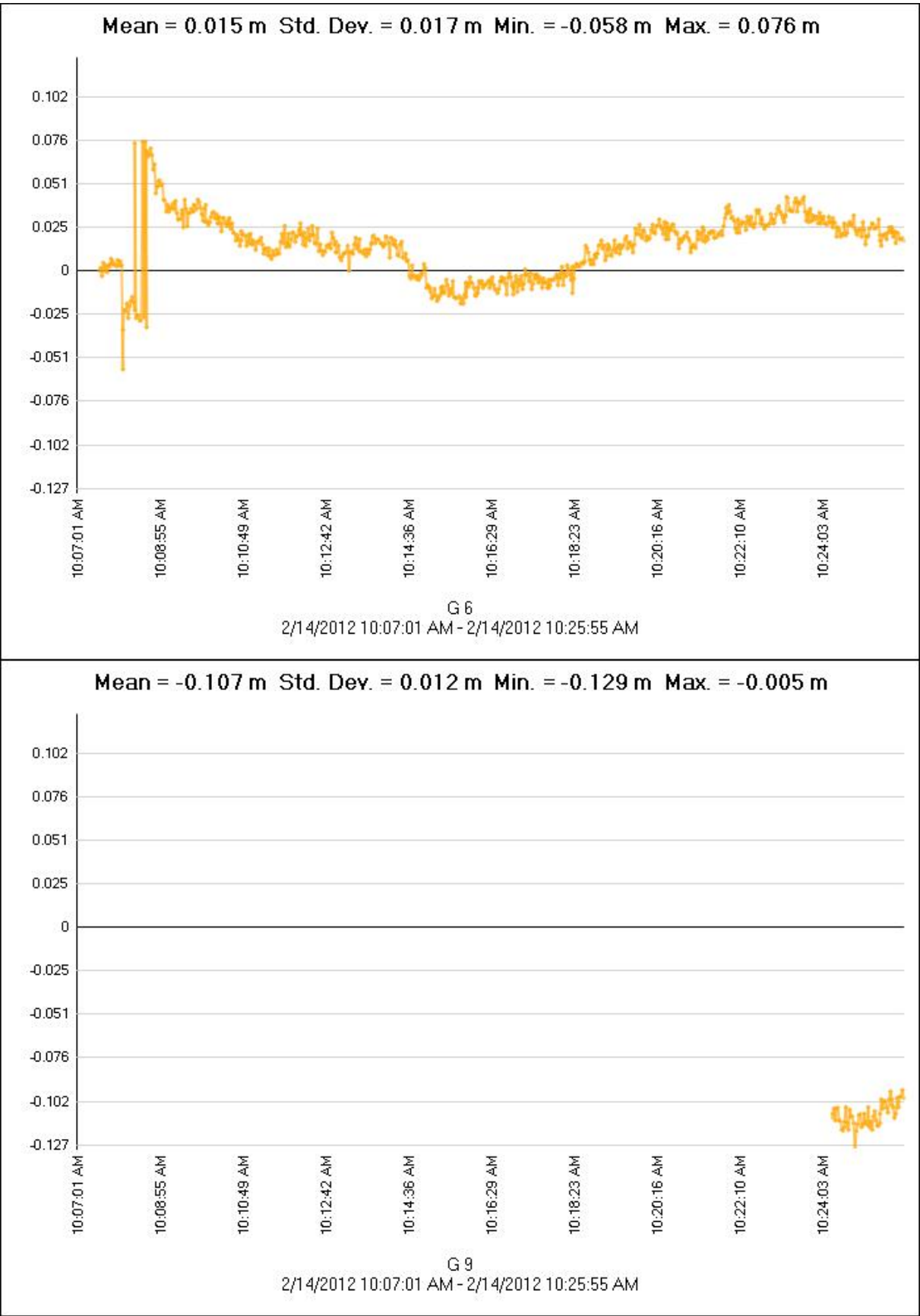
Occupations

	From	To
Point ID:	JH0456	FVA22-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00080450-1.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

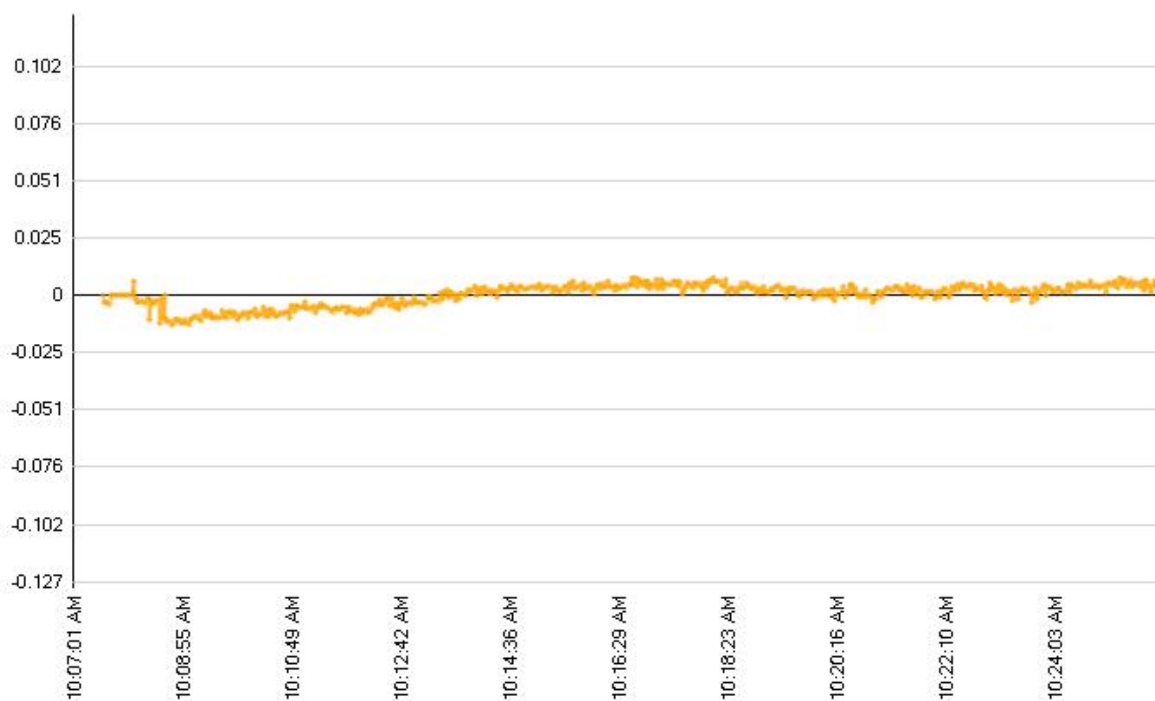
Tracking Summary

SV	2/14/2012 10:07:00 AM	Duration: 00:18:55 Major interval: 00:01:00	2/14/2012 10:25:55 AM
G 3			
G 5			
G 6			
G 9			
G 15			
G 16			
G 18			
G 21			
G 22			
G 27			
G 29			
G 30			

Residuals



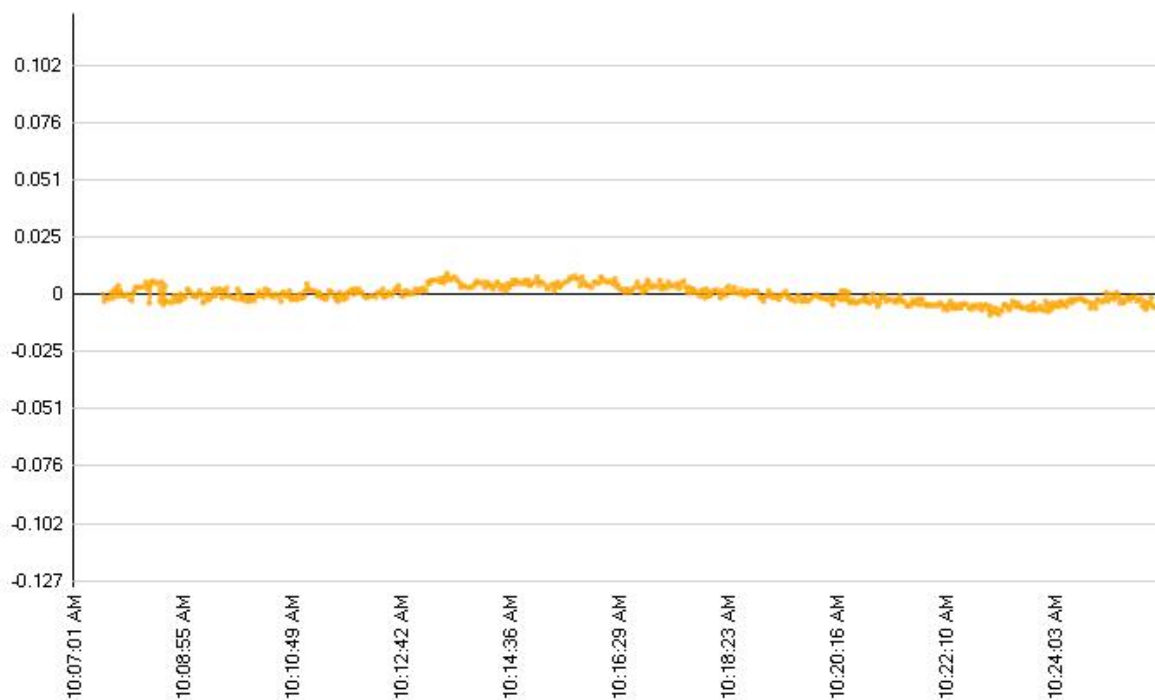
Mean = 0.000 m Std. Dev. = 0.005 m Min. = -0.013 m Max. = 0.008 m



G 15

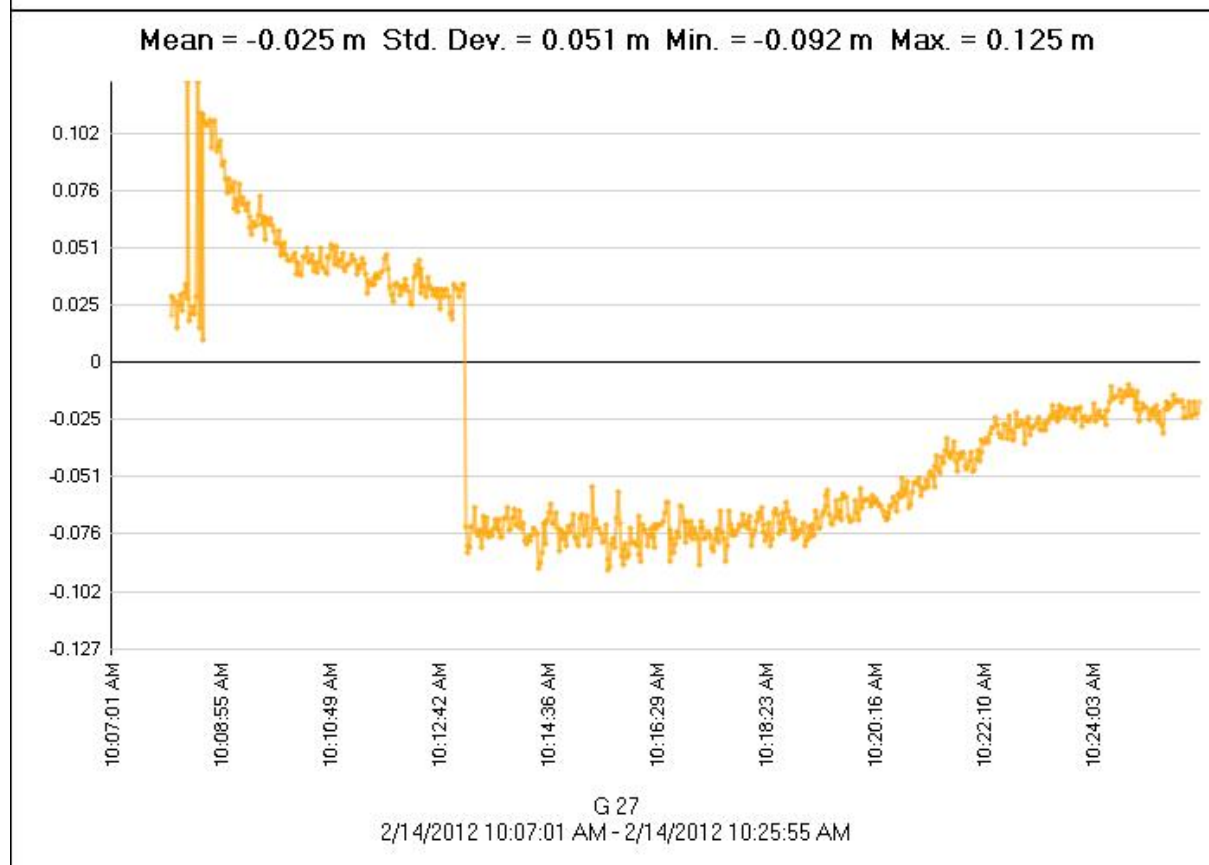
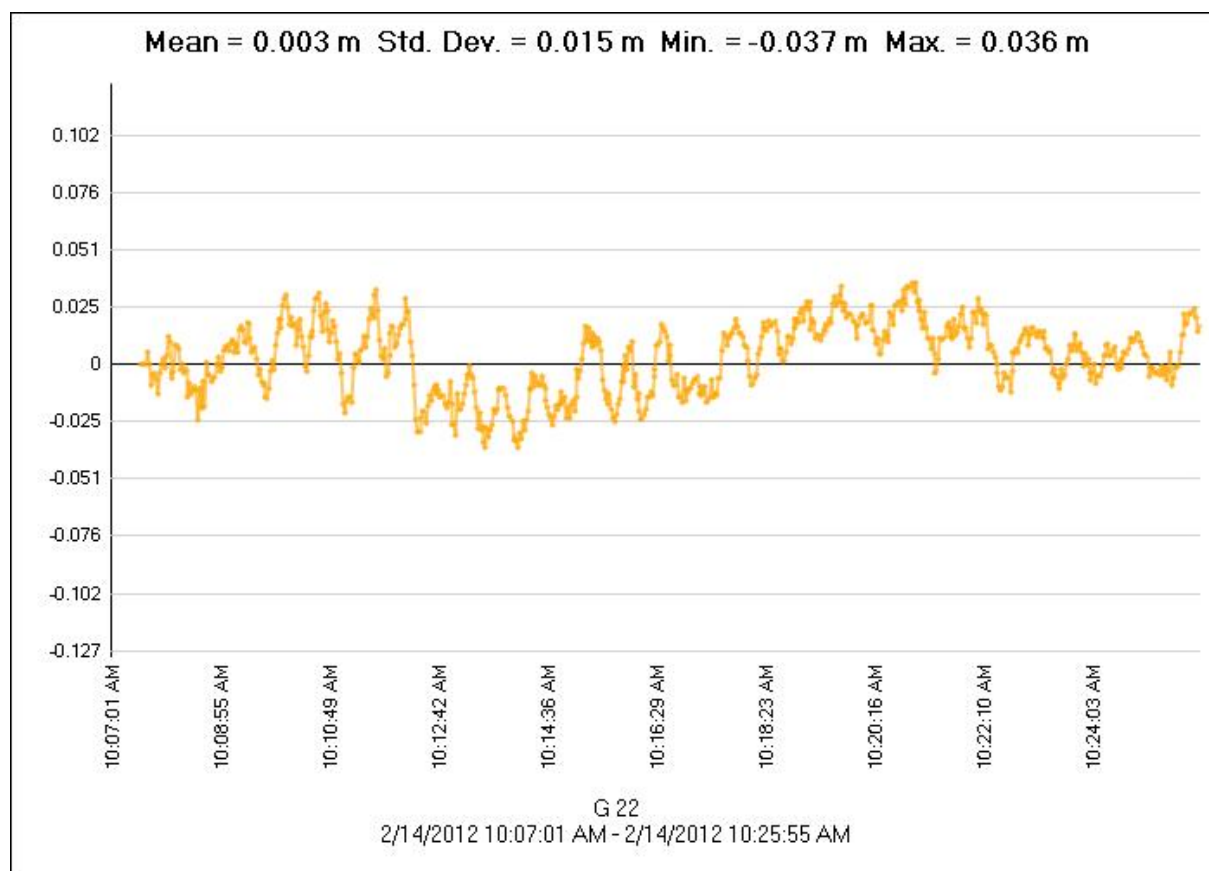
2/14/2012 10:07:01 AM - 2/14/2012 10:25:55 AM

Mean = 0.000 m Std. Dev. = 0.003 m Min. = -0.009 m Max. = 0.009 m



G 21

2/14/2012 10:07:01 AM - 2/14/2012 10:25:55 AM



Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA21-B2 (10:59:24 AM-11:20:14 AM) (S150)

Baseline observation: JH0456 --- FVA21-B2 (B150)

Processed: 3/21/2012 2:59:06 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.014 m

Vertical precision: 0.014 m

RMS: 0.003 m

Maximum PDOP: 3.456

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 10:59:24 AM (Local: UTC-7hr)

Processing stop time: 2/14/2012 11:20:14 AM (Local: UTC-7hr)

Processing duration: 00:20:50

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA21-B2				
Grid		Local		Global	
Easting	382984.204 m	Latitude	N38°16'39.07969"	Latitude	N38°16'39.07969"
Northing	4237453.768 m	Longitude	W100°20'16.16419"	Longitude	W100°20'16.16419"
Elevation	812.322 m	Height	786.738 m	Height	786.738 m

Vector					
9Ughb[	47720.900 m	NS Fwd Azimuth	114°48'48"	L	44760.058 m
BcfA\jb[	-23261.068 m	Ellipsoid Dist.	53096.380 m	M	-22475.527 m
9Yj Uhcb	-98.998 m	<Y][\h	-99.664 m	N	-17645.010 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point B	0.006 m	Point C	0.004 m	Point M	0.007 m
Point D	0.007 m	Point E	0.007 m	Point N	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000098582		
Y	0.0000044820	0.0000465124	
Z	0.0000012117	-0.0000070181	0.0000347384

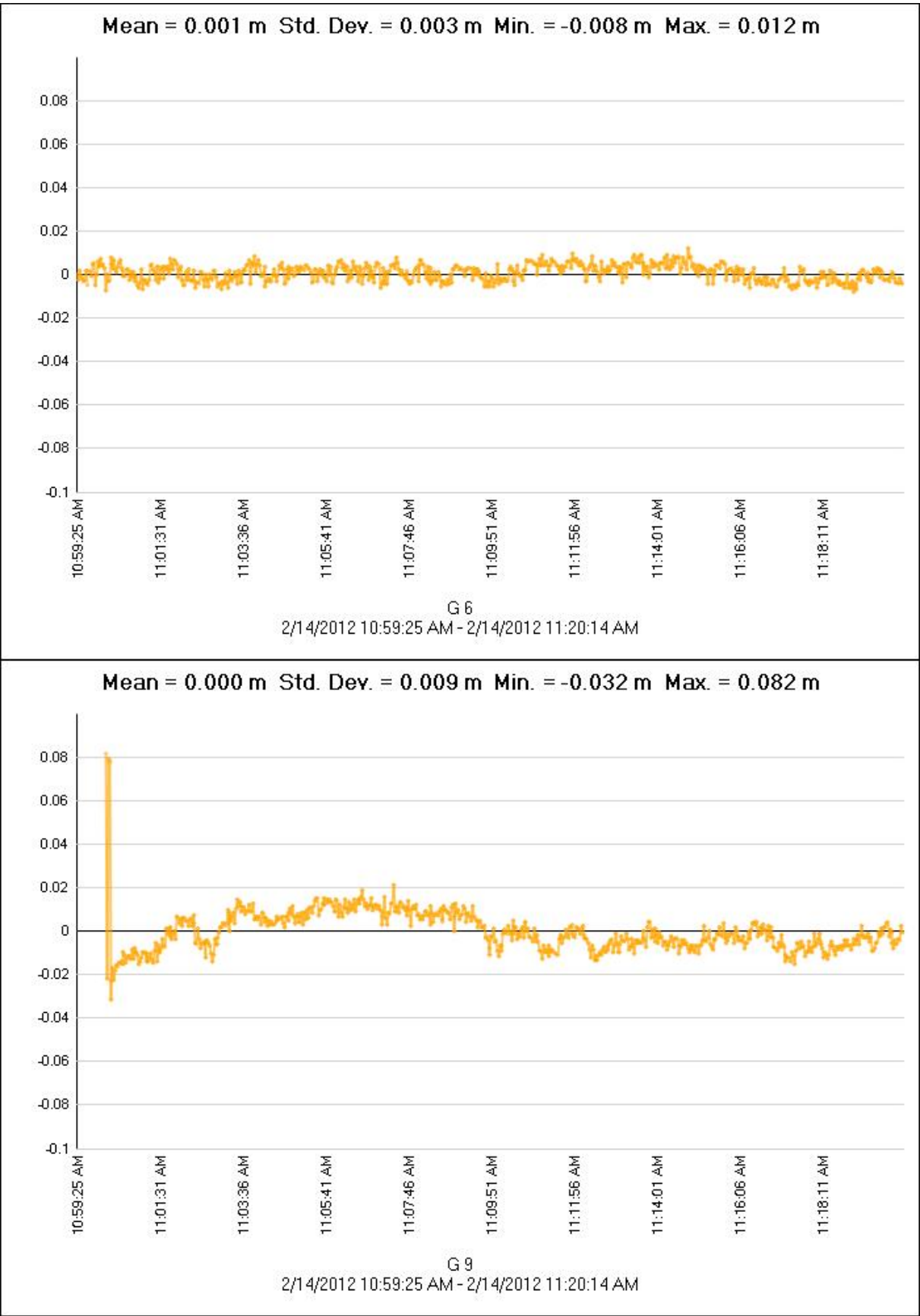
Occupations

	From	To
Point ID:	JH0456	FVA21-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080451.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

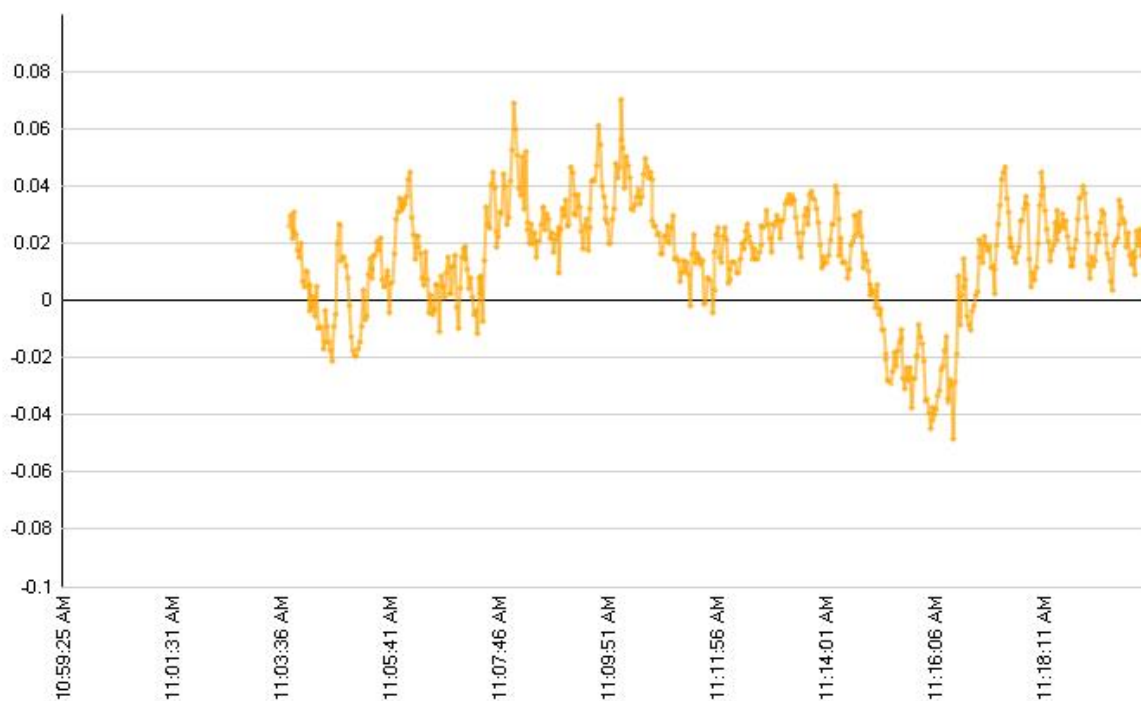
Tracking Summary

SV	2/14/2012 10:59:24 AM	Duration: 00:20:50 Major interval: 00:01:00	2/14/2012 11:20:14 AM
G 3			
G 6			
G 9			
G 14			
G 15			
G 16			
G 18			
G 19			
G 21			
G 22			
G 27			
G 29			

Residuals

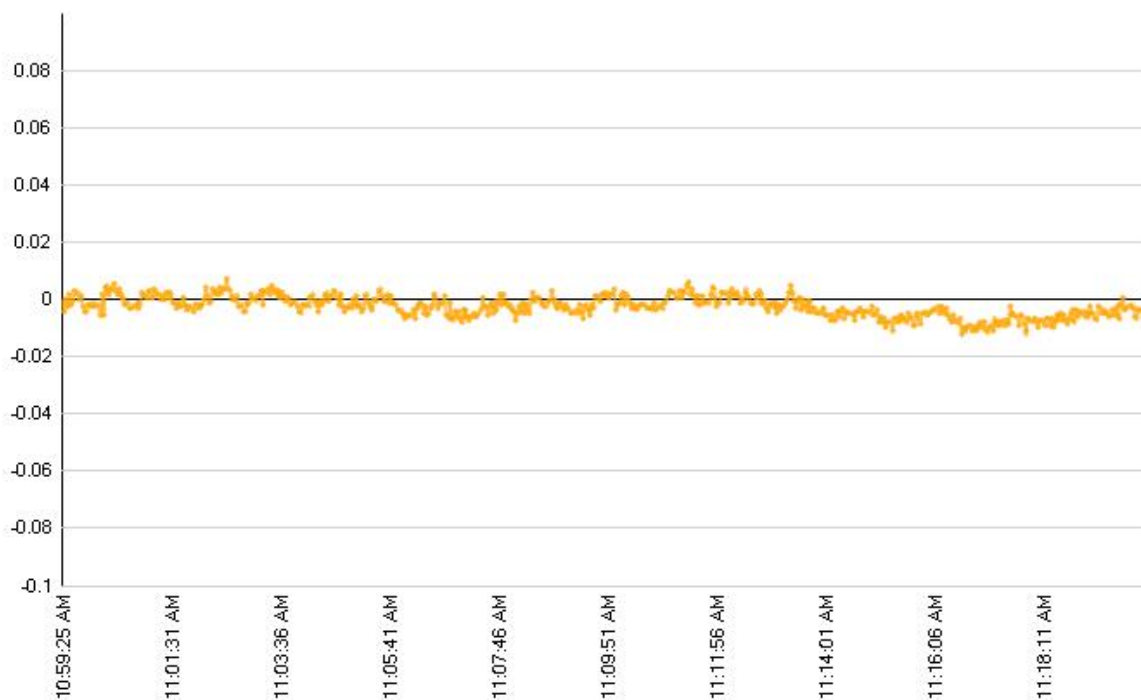


Mean = 0.015 m Std. Dev. = 0.019 m Min. = -0.049 m Max. = 0.070 m



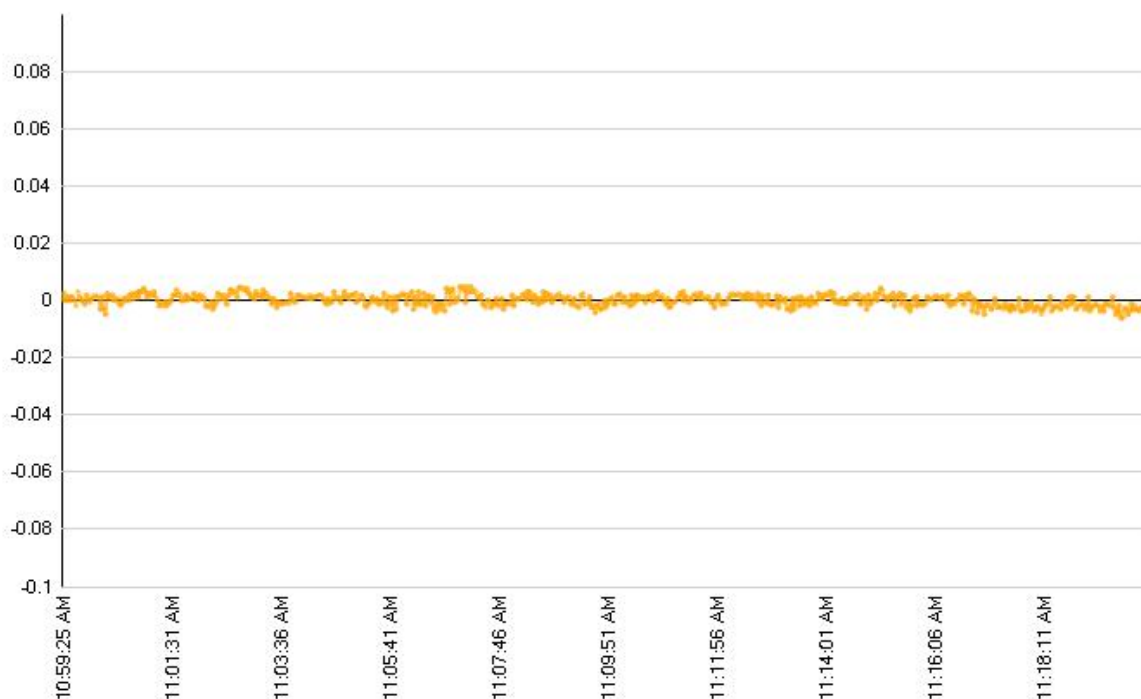
G 14
2/14/2012 10:59:25 AM - 2/14/2012 11:20:14 AM

Mean = -0.002 m Std. Dev. = 0.003 m Min. = -0.012 m Max. = 0.007 m



G 15
2/14/2012 10:59:25 AM - 2/14/2012 11:20:14 AM

Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.005 m



G 21

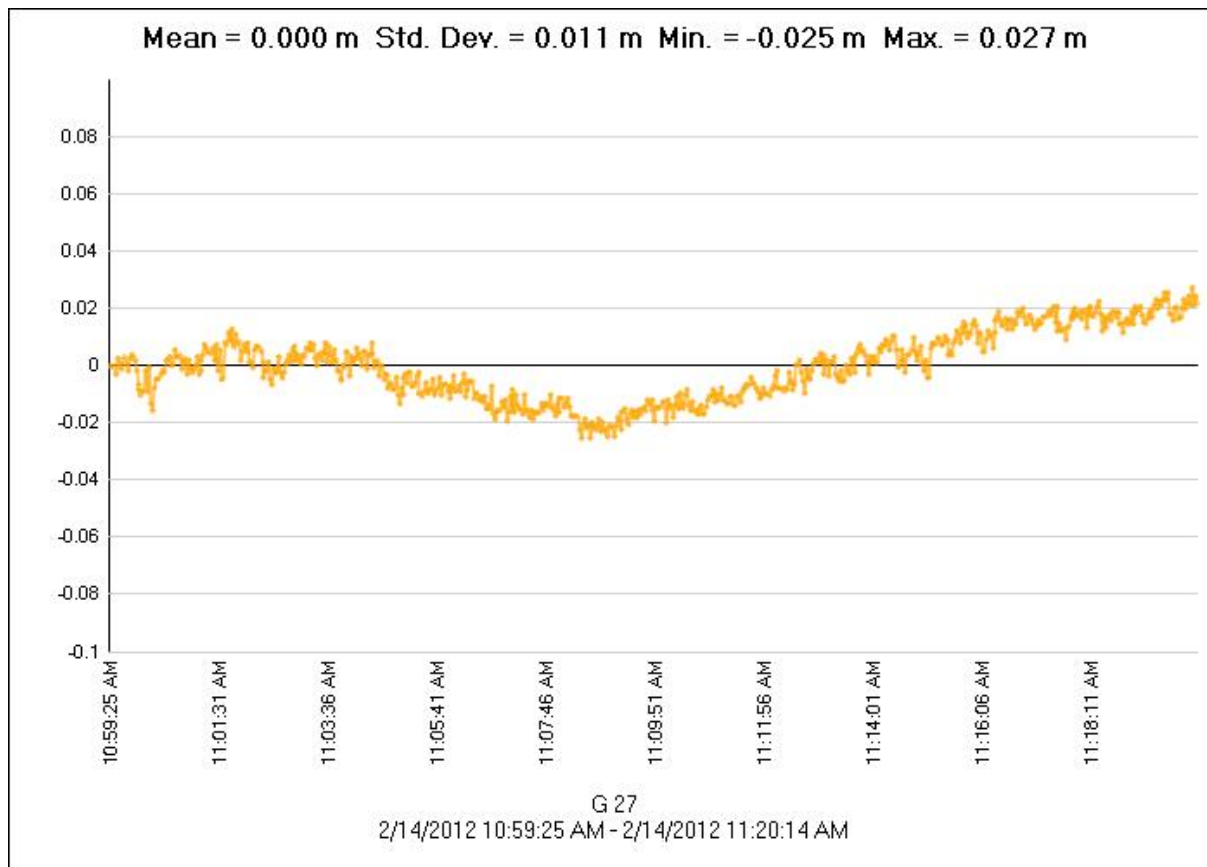
2/14/2012 10:59:25 AM - 2/14/2012 11:20:14 AM

Mean = 0.001 m Std. Dev. = 0.004 m Min. = -0.013 m Max. = 0.012 m



G 22

2/14/2012 10:59:25 AM - 2/14/2012 11:20:14 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation: JH0456 --- FVA52-B2 (B151)

Processed: 3/21/2012 2:59:15 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.020 m

Vertical precision: 0.015 m

RMS: 0.001 m

Maximum PDOP: 2.159

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 11:55:29 AM (Local: UTC-7hr)

Processing stop time: 2/14/2012 12:16:08 PM (Local: UTC-7hr)

Processing duration: 00:20:39

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA52-B2				
Grid		Local		Global	
Easting	367079.960 m	Latitude	N38°14'02.72916"	Latitude	N38°14'02.72915"
Northing	4232878.860 m	Longitude	W100°31'07.46493"	Longitude	W100°31'07.46493"
Elevation	863.721 m	Height	838.380 m	Height	838.380 m

Vector					
9Ughb[	31816.655 m	NS Fwd Azimuth	130°00'35"	L	28636.927 m
BcfA\jb[	-27835.977 m	Ellipsoid Dist.	42279.927 m	M	-22584.853 m
9`Yj Uhcb	-47.598 m	<Y][\h	-48.023 m	N	-21399.123 m

Standard Errors

Vector errors:					
Point ID	0.008 m	Point Description	0°00'00"	Point Type	0.008 m
Point ID	0.003 m	Point Description	0.007 m	Point Type	0.007 m
Point ID	0.008 m	Point Description	0.008 m	Point Type	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000575807		
Y	-0.0000275219	0.0000482567	
Z	0.0000084170	-0.0000273805	0.0000338837

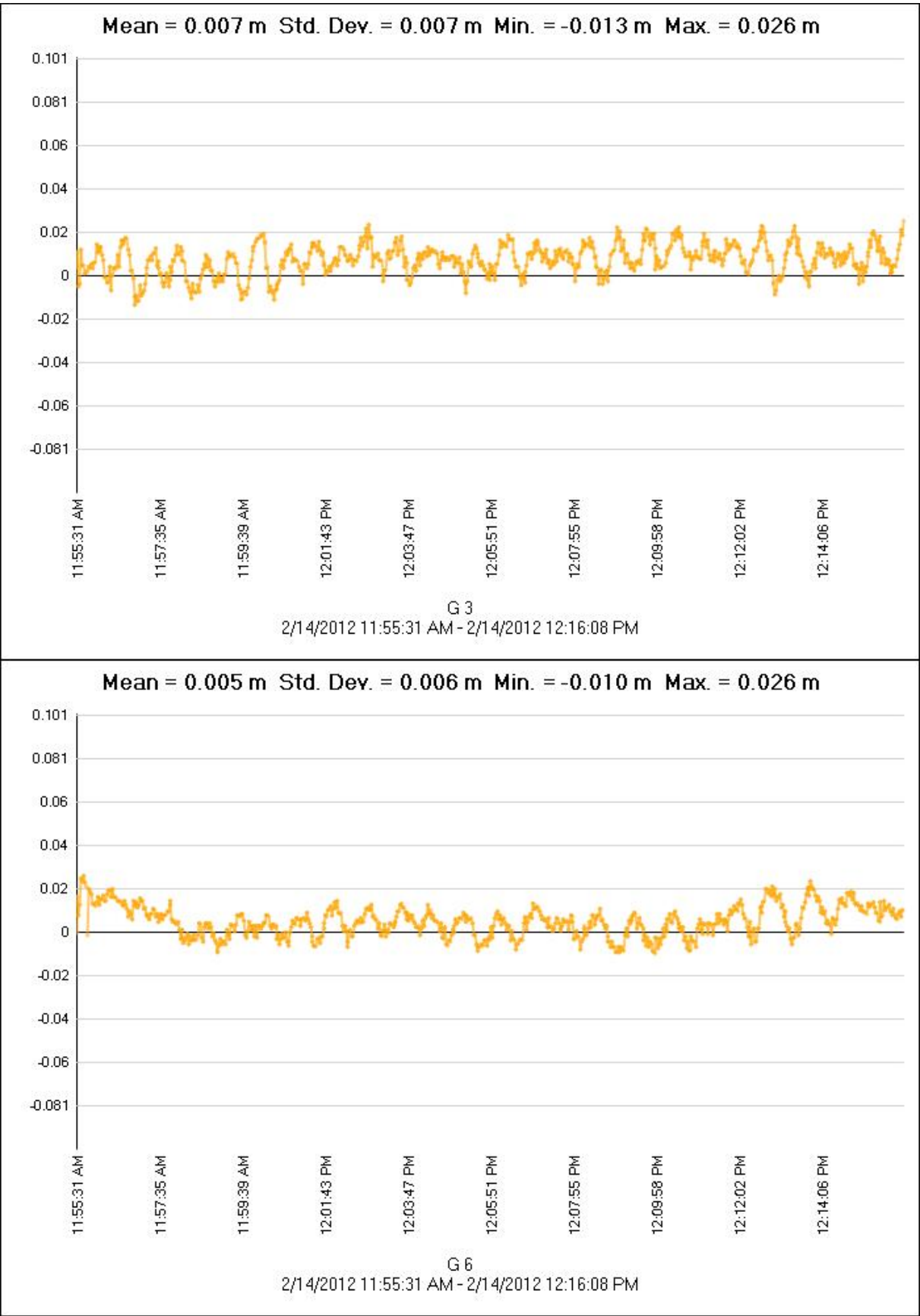
Occupations

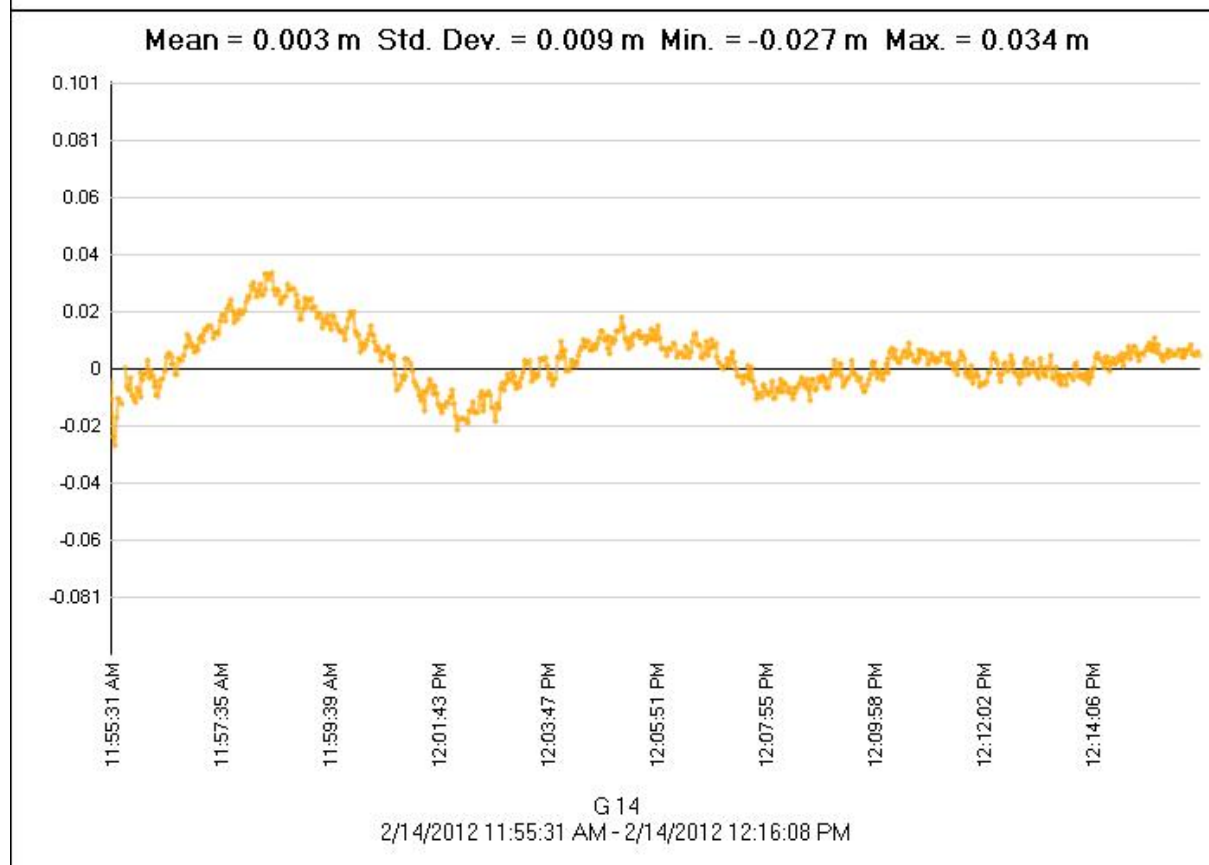
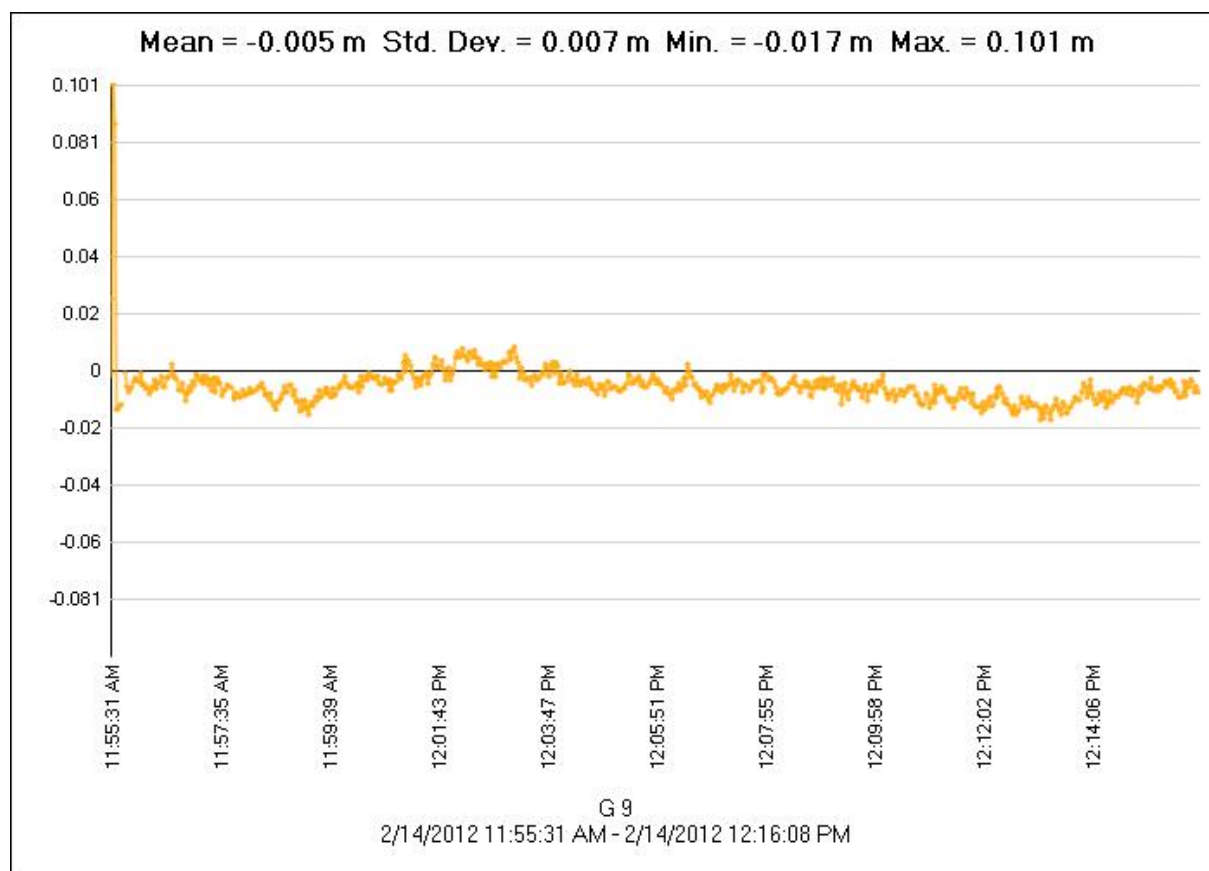
	From	To
Point ID:	JH0456	FVA52-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080452.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

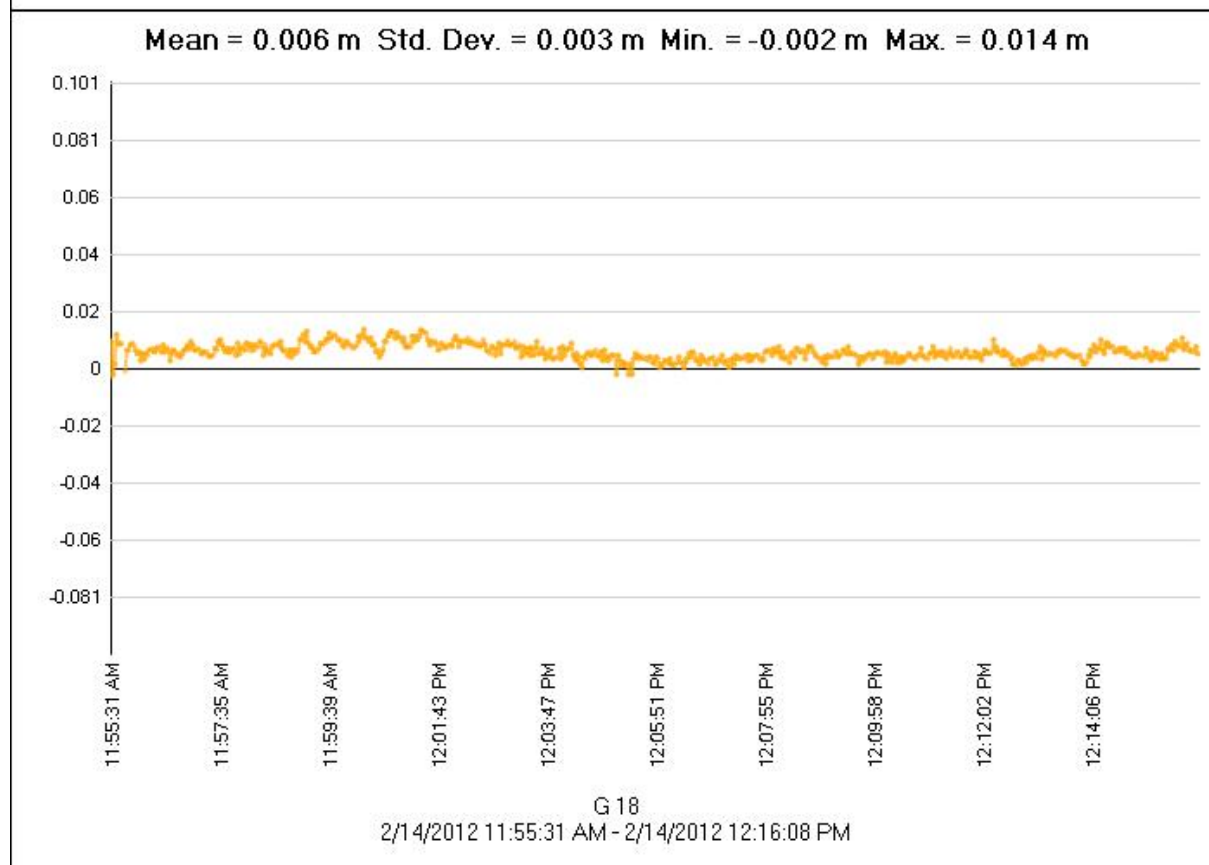
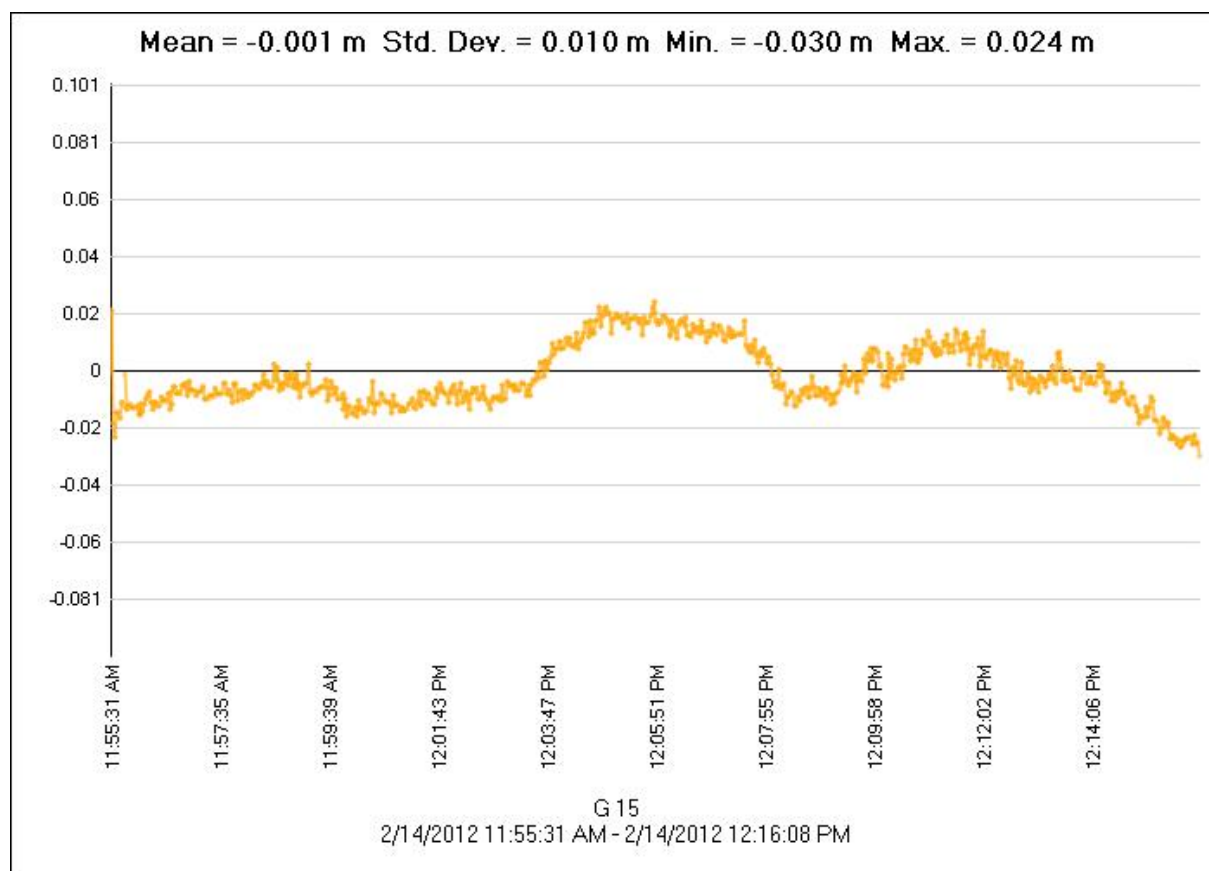
Tracking Summary

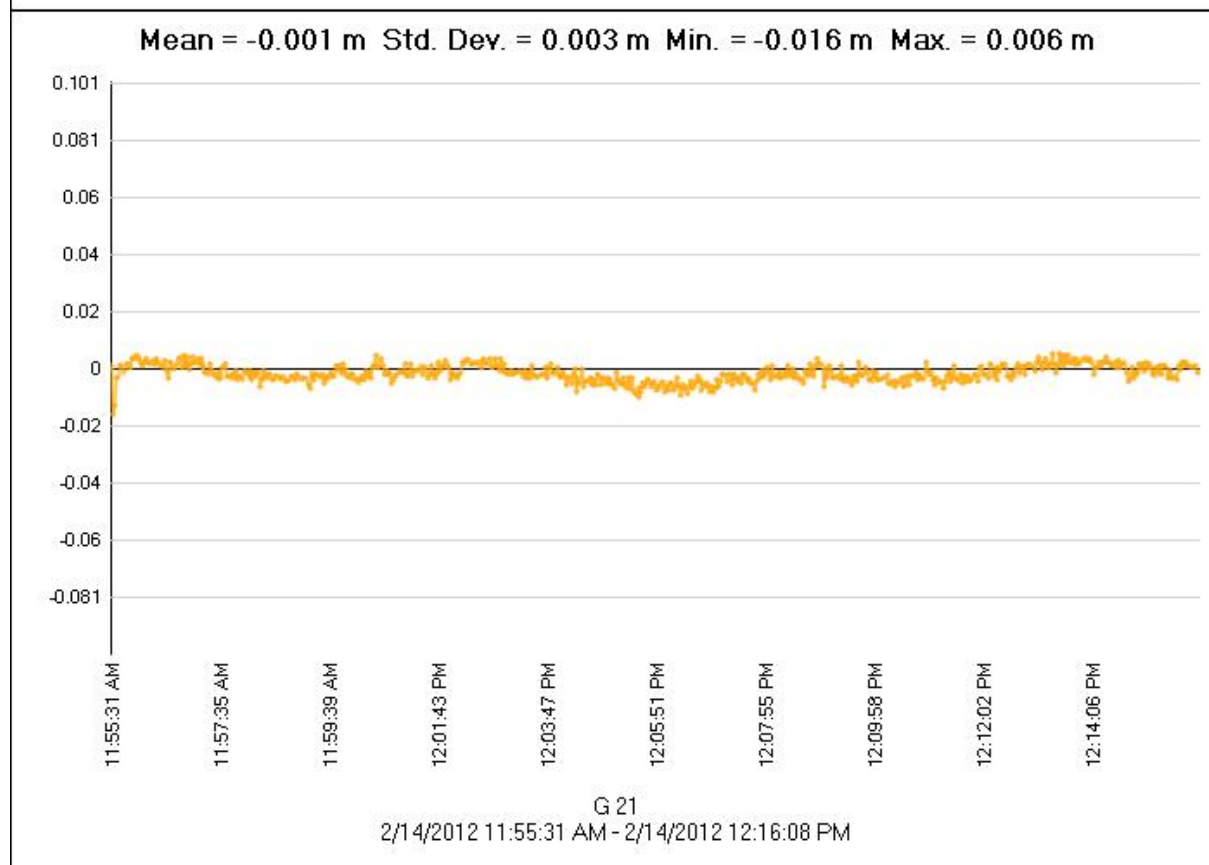
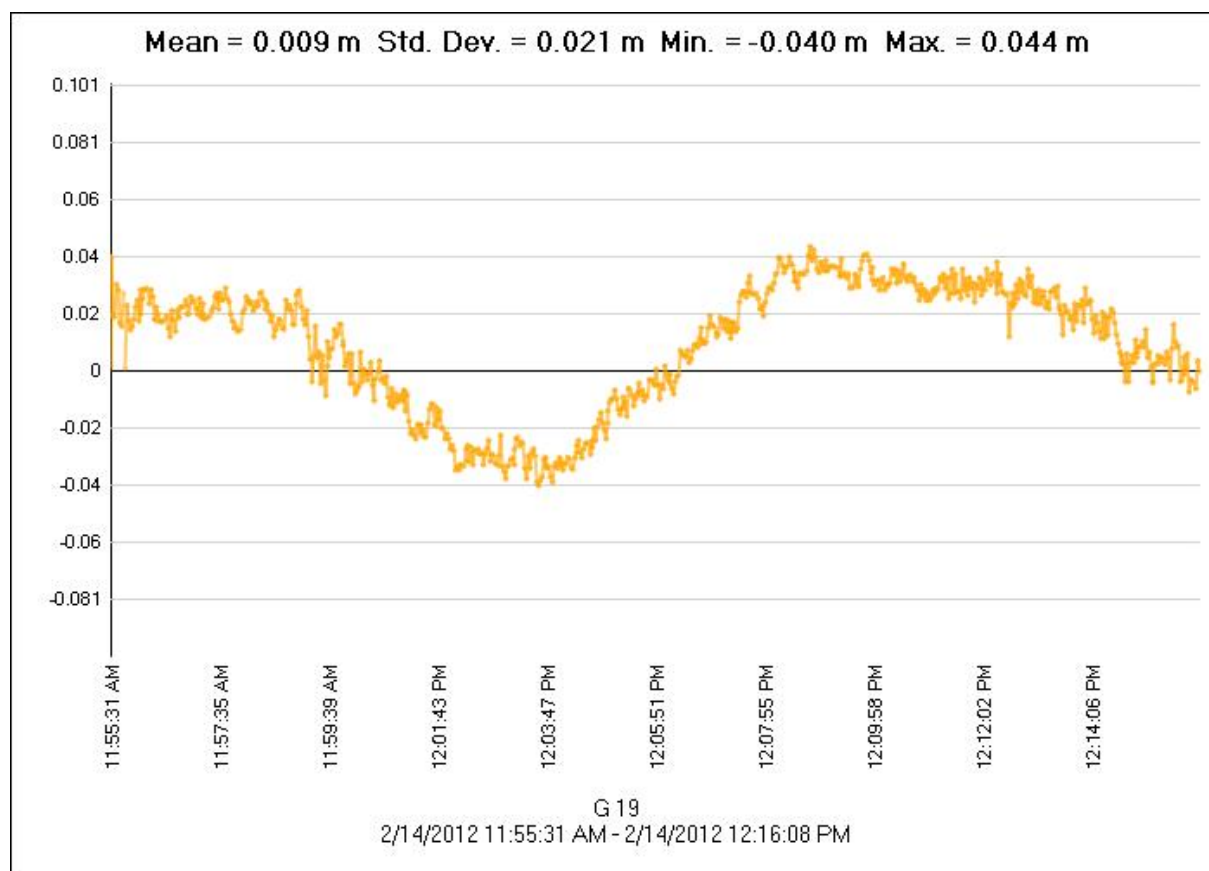
SV	2/14/2012 11:55:29 AM	Duration: 00:20:39	Major interval: 00:01:00	2/14/2012 12:16:08 PM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			

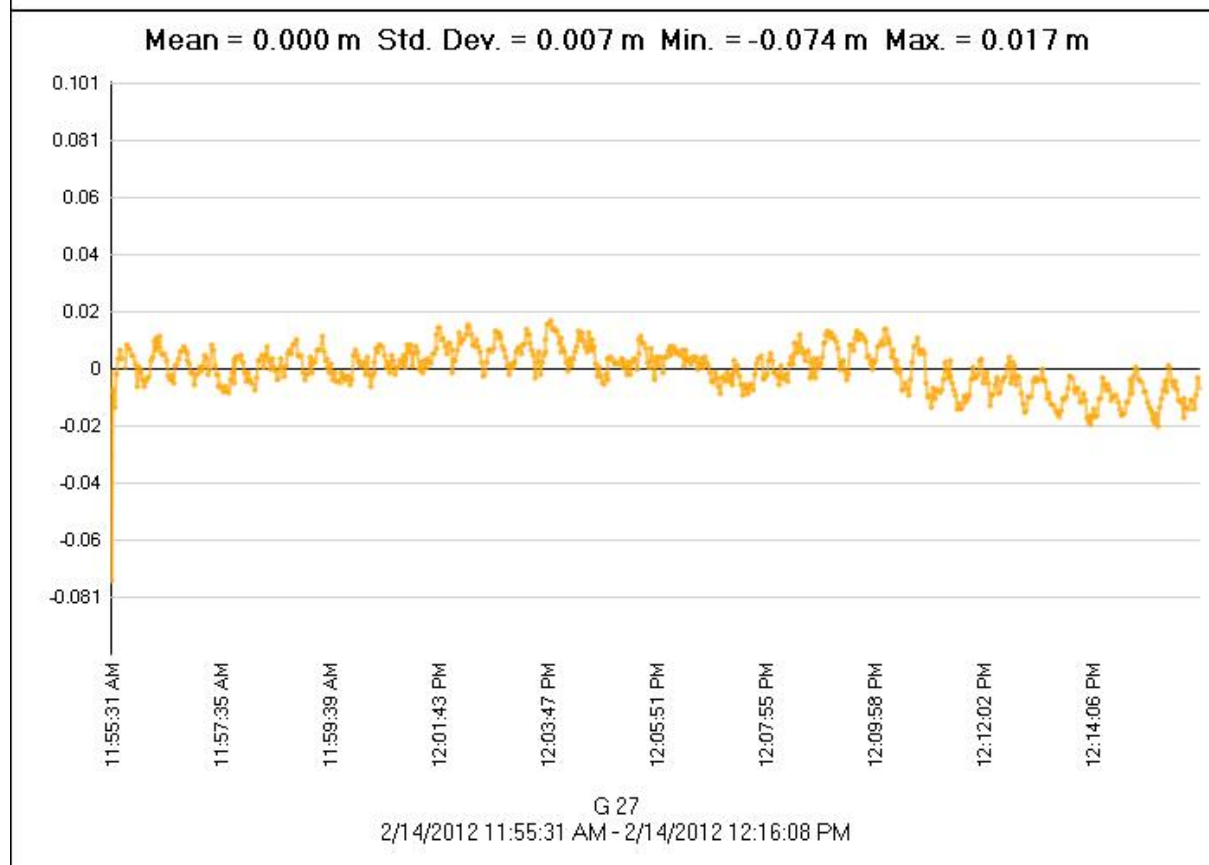
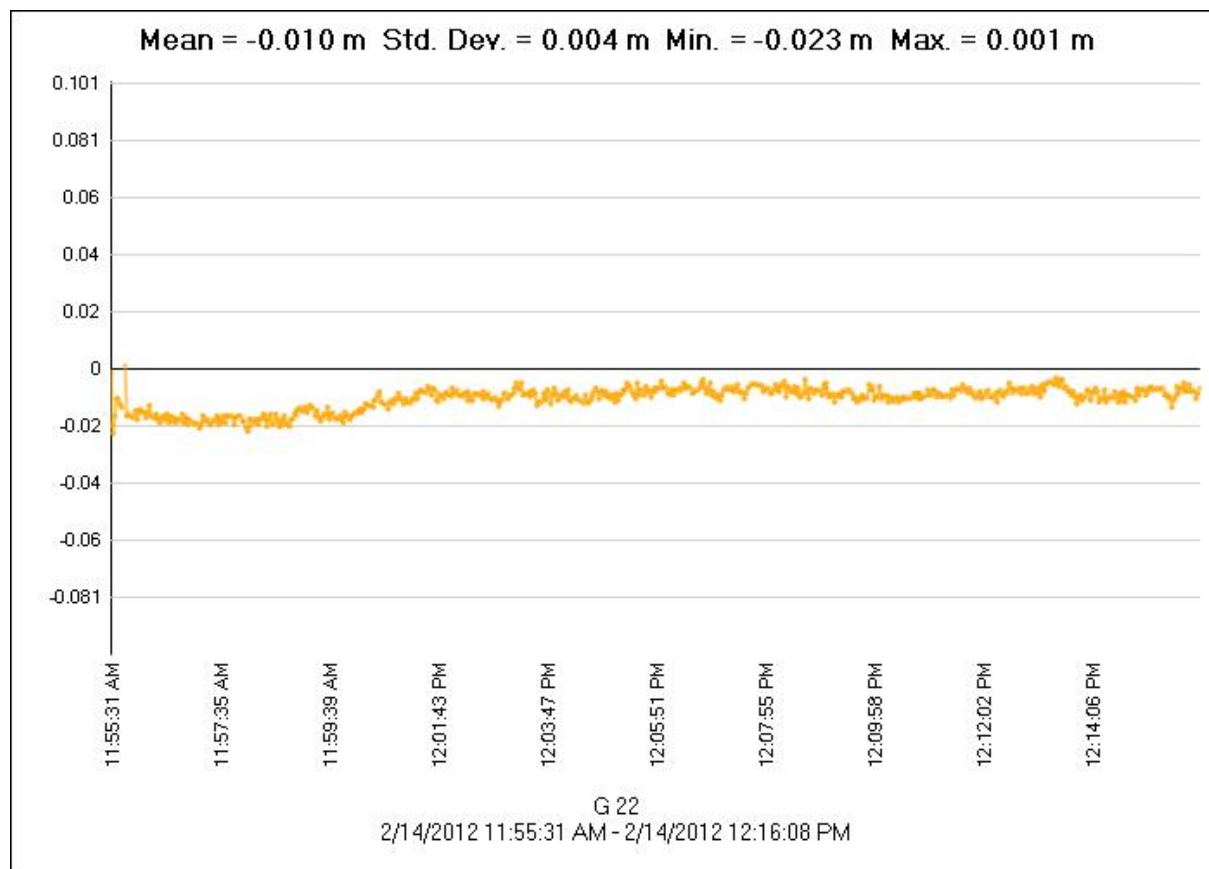
Residuals











Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA13-B2 (12:53:37 PM-1:12:11 PM) (S152)

Baseline observation: JH0456 --- FVA13-B2 (B152)

Processed: 3/21/2012 2:59:20 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.015 m

RMS: 0.002 m

Maximum PDOP: 2.191

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 12:53:37 PM (Local: UTC-7hr)

Processing stop time: 2/14/2012 1:12:11 PM (Local: UTC-7hr)

Processing duration: 00:18:33

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA13-B2				
Grid		Local		Global	
Easting	352650.066 m	Latitude	N38°15'51.63749"	Latitude	N38°15'51.63748"
Northing	4236486.644 m	Longitude	W100°41'03.49197"	Longitude	W100°41'03.49197"
Elevation	890.496 m	Height	865.369 m	Height	865.369 m

Vector					
9Ughb[	17386.762 m	NS Fwd Azimuth	143°09'47"	L	14768.574 m
BcfA\jb[	-24228.193 m	Ellipsoid Dist.	29824.191 m	M	-17895.351 m
9`Yj Uhcb	-20.824 m	<Y][\h	-21.034 m	N	-18744.905 m

Standard Errors

Vector errors:					
σ _{Ughb}	0.003 m	σ _{BG'Zk X'5nJa i h}	0°00'00"	σ _L	0.003 m
σ _{Bcfh\]b}	0.004 m	σ _{'9~]dgc]X'8]gh}	0.004 m	σ _M	0.007 m
σ _{'9~j Uhcb}	0.007 m	σ _{' <Y][\h}	0.007 m	σ _N	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000080250		
Y	0.0000039832	0.0000494912	
Z	-0.0000035981	-0.0000165563	0.0000230862

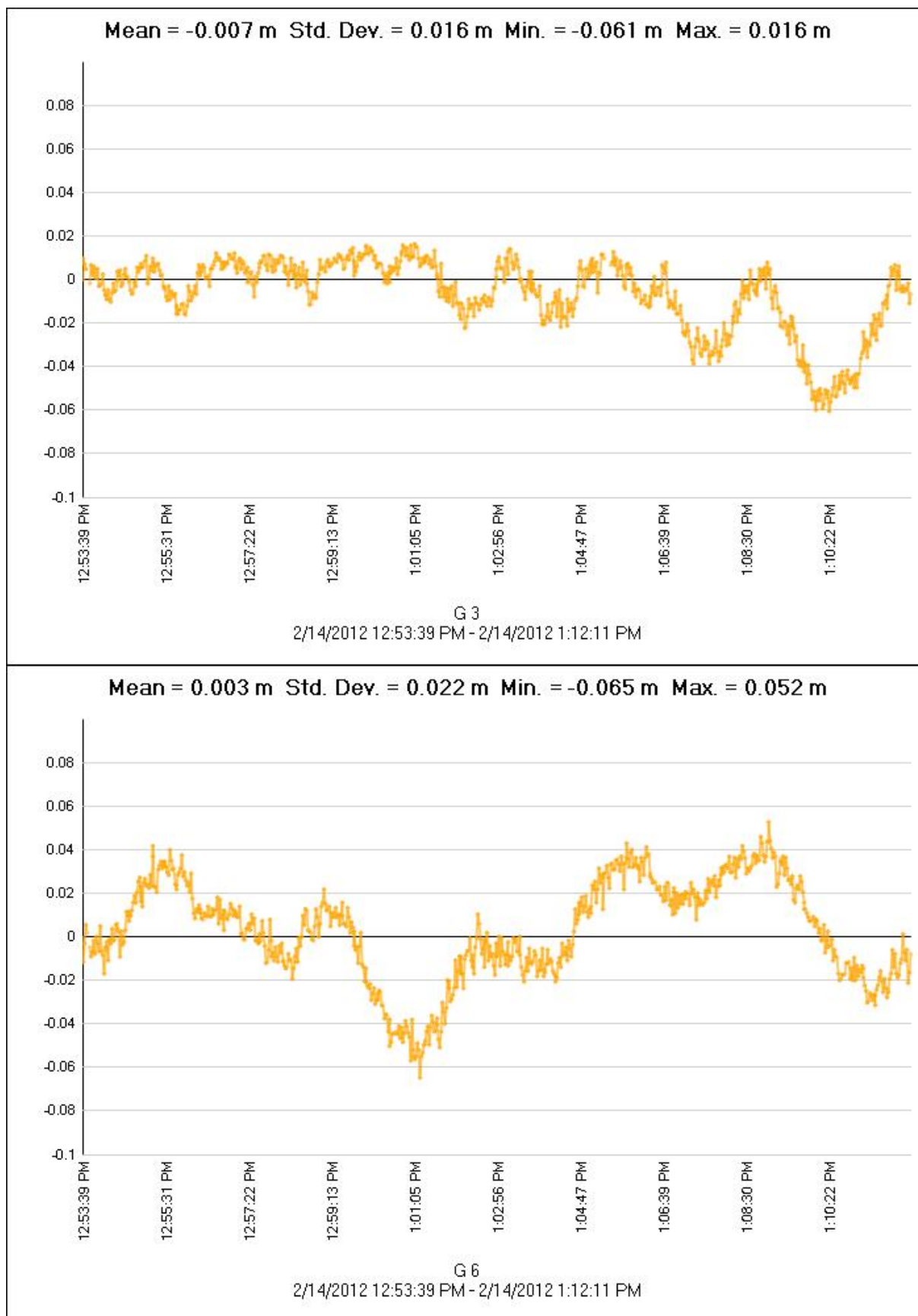
Occupations

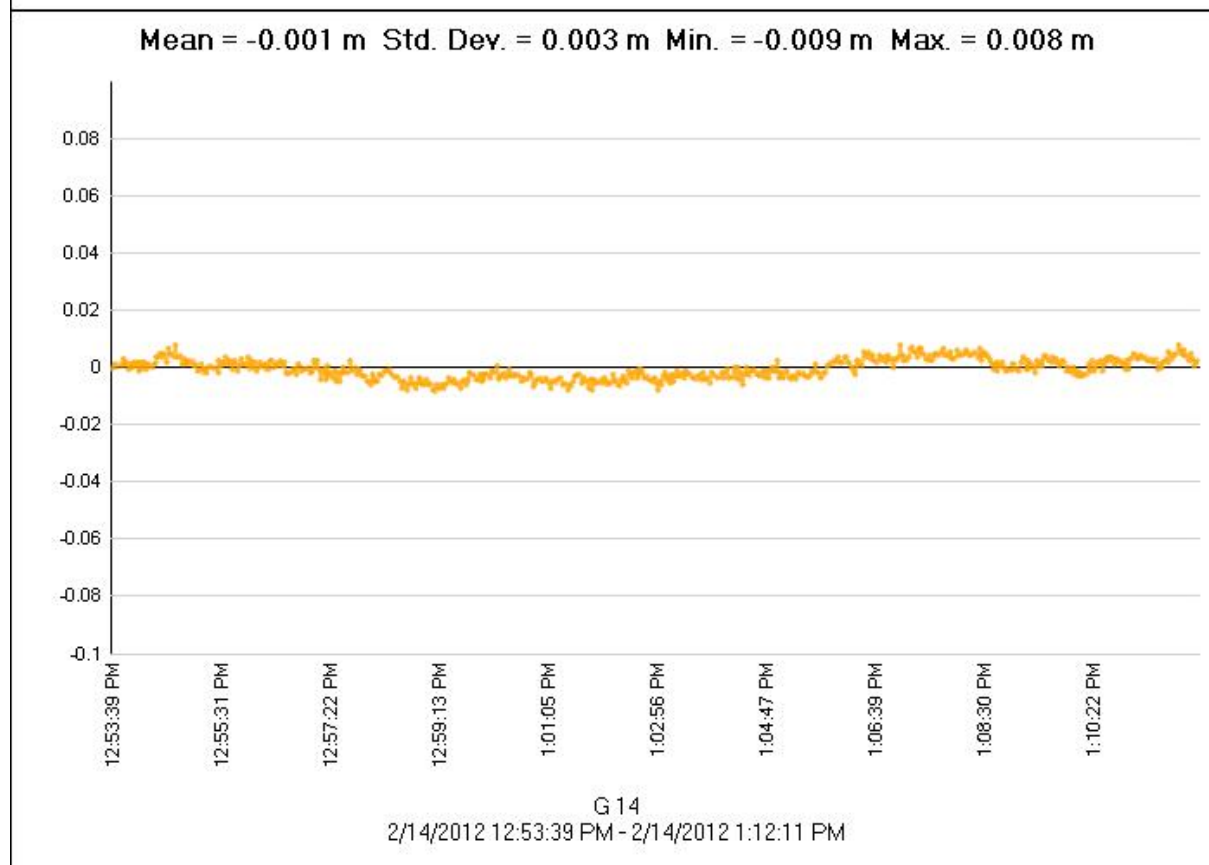
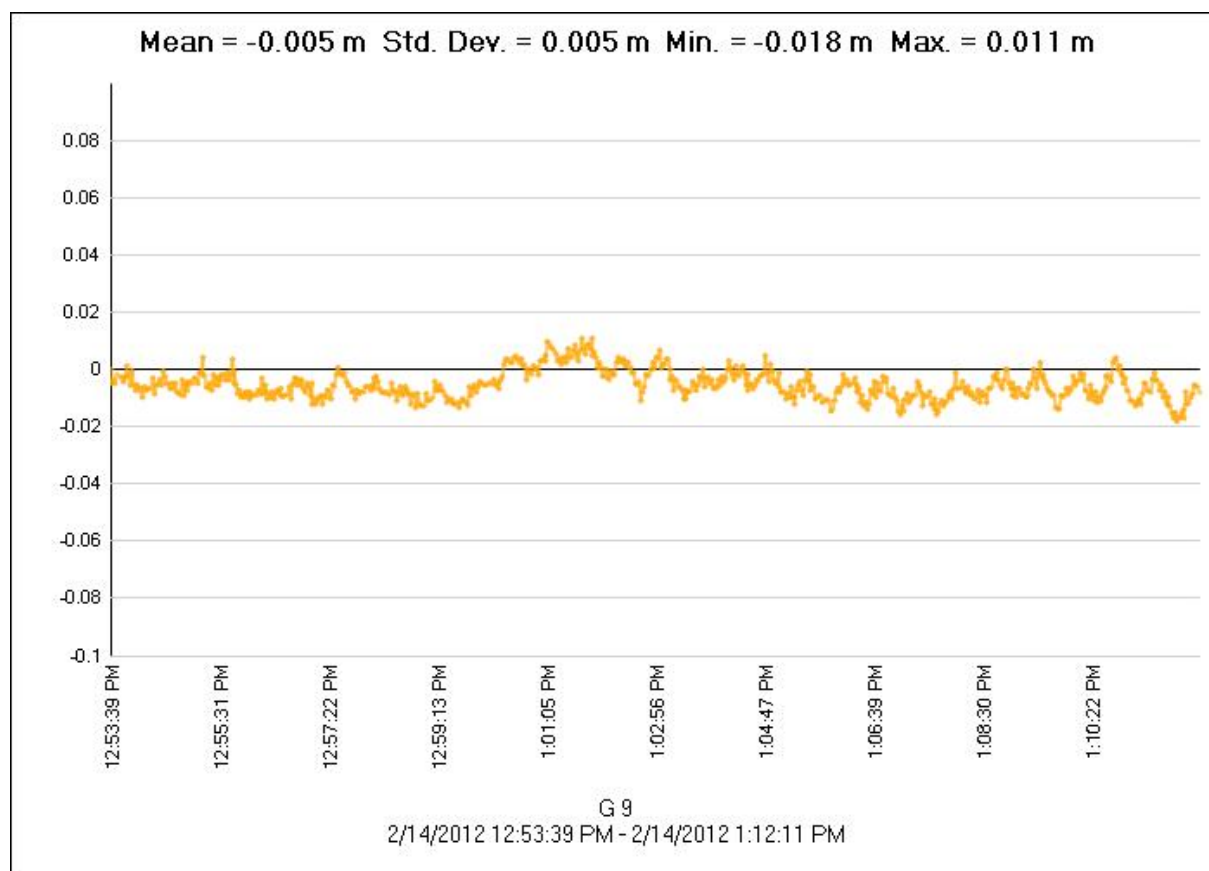
	From	To
Point ID:	JH0456	FVA13-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00080453.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

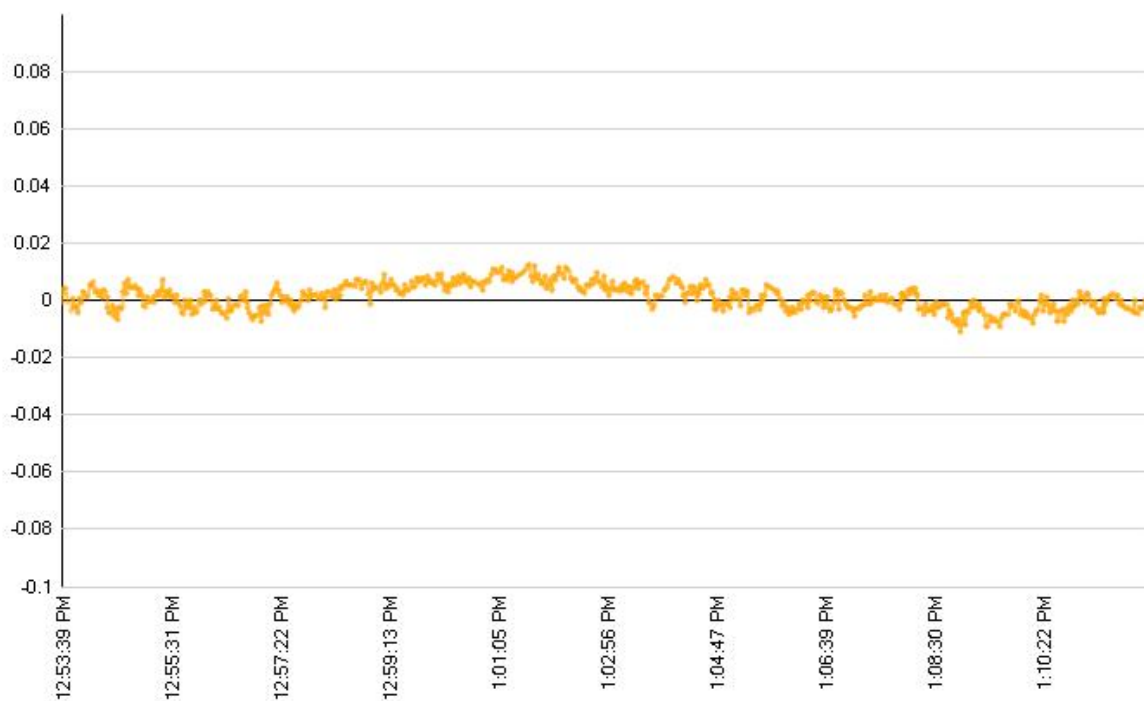
SV	2/14/2012 12:53:37 PM	Duration: 00:18:33.5000000	Major interval: 00:01:00	2/14/2012 1:12:11 PM
G 3	L1			
	L2			
G 6	L1			
	L2			
G 9	L1			
	L2			
G 11	L1			
	L2			
G 14	L1			
	L2			
G 15	L1			
	L2			
G 18	L1			
	L2			
G 19	L1			
	L2			
G 21	L1			
	L2			
G 22	L1			
	L2			
G 27	L1			
	L2			
G 31	L1			
	L2			

Residuals





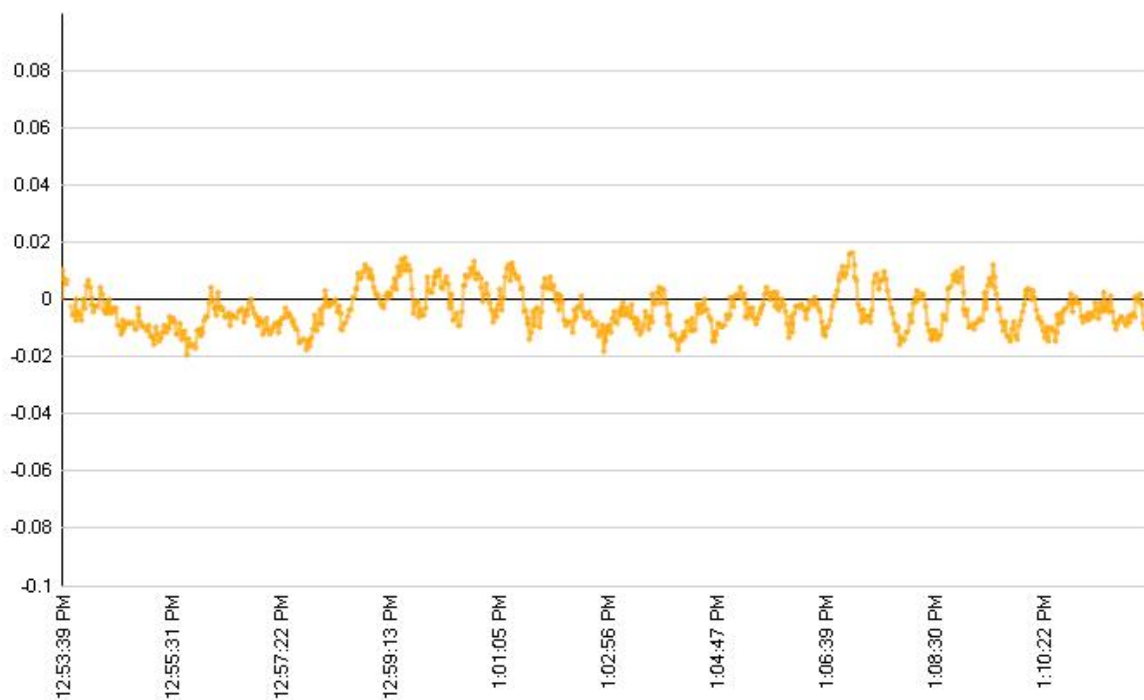
Mean = 0.001 m Std. Dev. = 0.004 m Min. = -0.011 m Max. = 0.013 m



G 18

2/14/2012 12:53:39 PM - 2/14/2012 1:12:11 PM

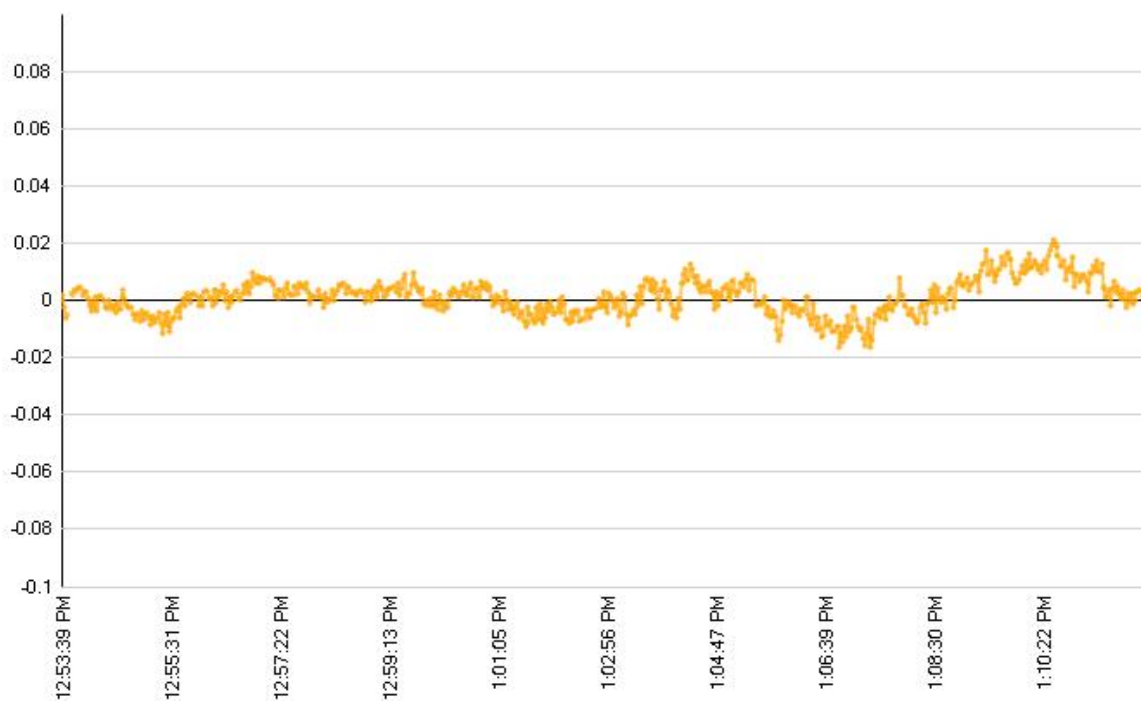
Mean = -0.003 m Std. Dev. = 0.006 m Min. = -0.020 m Max. = 0.017 m



G 19

2/14/2012 12:53:39 PM - 2/14/2012 1:12:11 PM

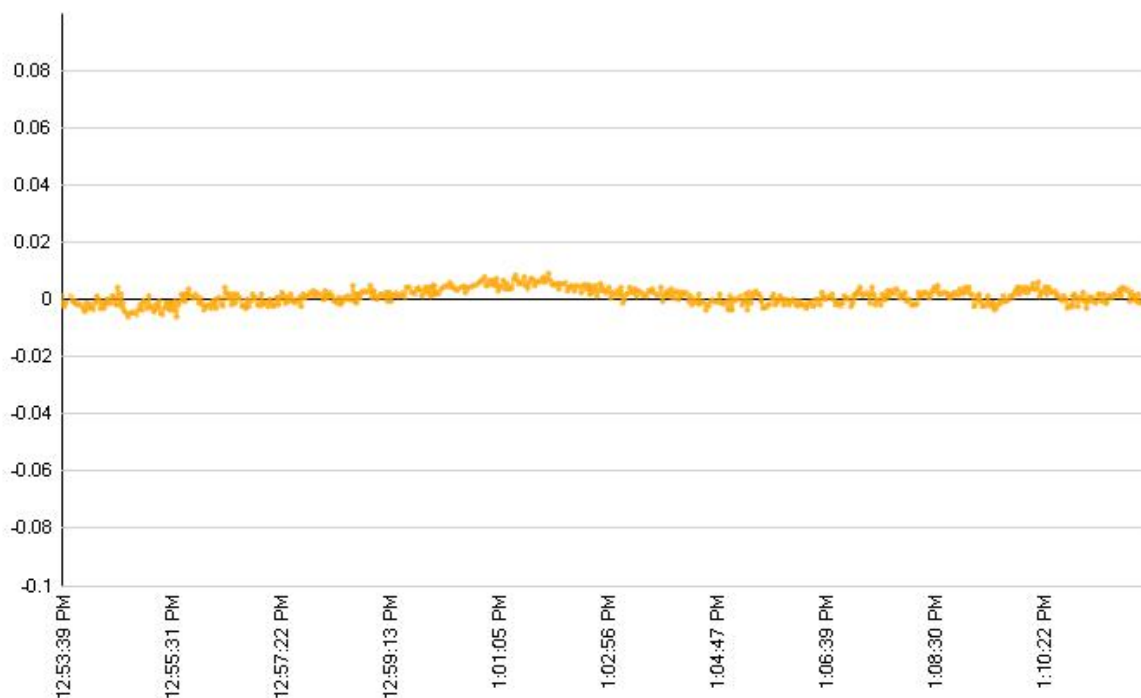
Mean = 0.001 m Std. Dev. = 0.006 m Min. = -0.017 m Max. = 0.021 m



G 21

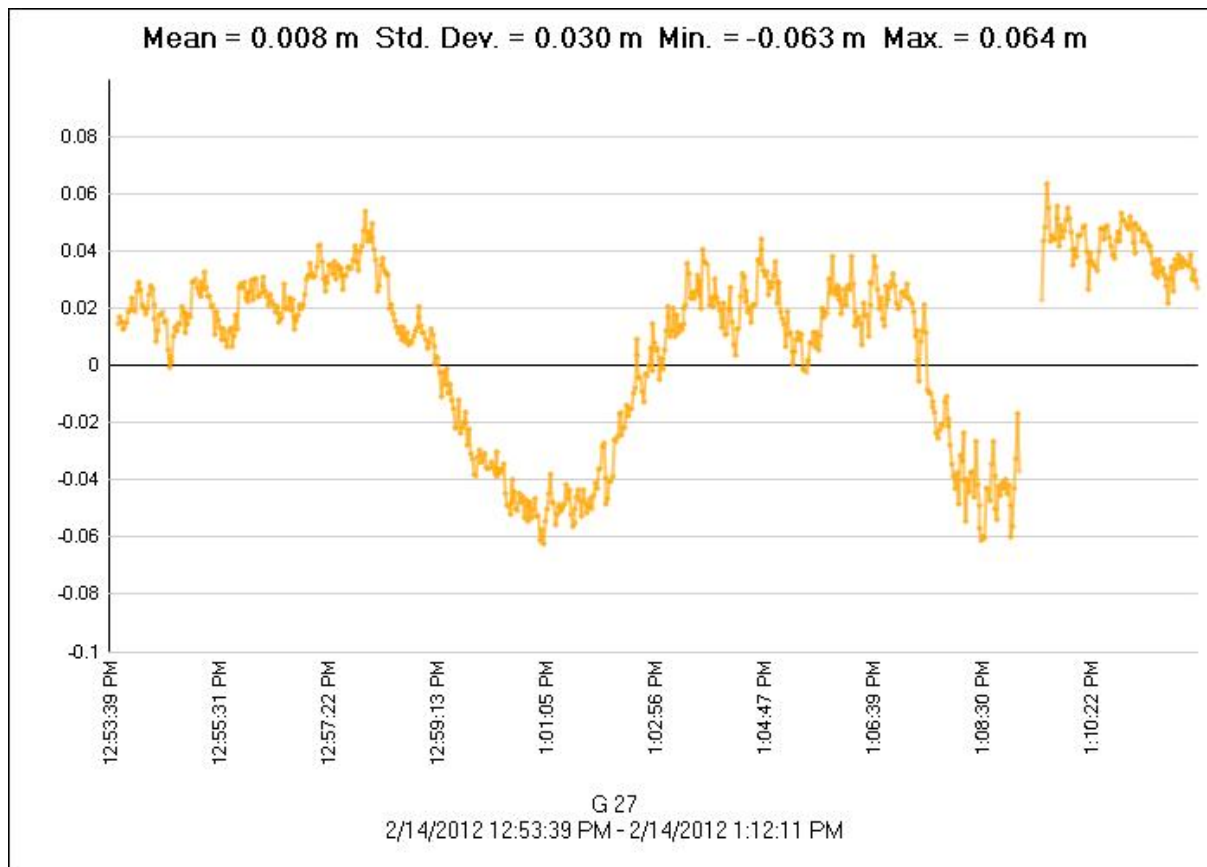
2/14/2012 12:53:39 PM - 2/14/2012 1:12:11 PM

Mean = 0.001 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.009 m



G 22

2/14/2012 12:53:39 PM - 2/14/2012 1:12:11 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA10-B2 (1:39:25 PM-2:00:31 PM) (S153)

Baseline observation: JH0456 --- FVA10-B2 (B153)

Processed: 3/21/2012 2:59:32 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.013 m

Vertical precision: 0.018 m

RMS: 0.002 m

Maximum PDOP: 1.870

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 1:39:25 PM (Local: UTC-7hr)

Processing stop time: 2/14/2012 2:00:31 PM (Local: UTC-7hr)

Processing duration: 00:21:06

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA10-B2				
Grid		Local		Global	
Easting	342358.227 m	Latitude	N38°15'51.87341"	Latitude	N38°15'51.87340"
Northing	4236687.886 m	Longitude	W100°48'06.97814"	Longitude	W100°48'06.97814"
Elevation	902.698 m	Height	877.640 m	Height	877.640 m

Vector					
9Ughb[	7094.923 m	NS Fwd Azimuth	162°22'34"	L	4651.708 m
BcfA\jb[	-24026.951 m	Ellipsoid Dist.	25054.594 m	M	-15981.084 m
9`Yj U\jcb	-8.622 m	<Y][\h	-8.762 m	N	-18731.593 m

Standard Errors

Vector errors:					
Point ID	0.005 m	Point ID	0°00'00"	Point ID	0.005 m
Point ID	0.005 m	Point ID	0.005 m	Point ID	0.008 m
Point ID	0.009 m	Point ID	0.009 m	Point ID	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000214925		
Y	-0.0000096825	0.0000710875	
Z	0.0000108785	-0.0000290842	0.0000408324

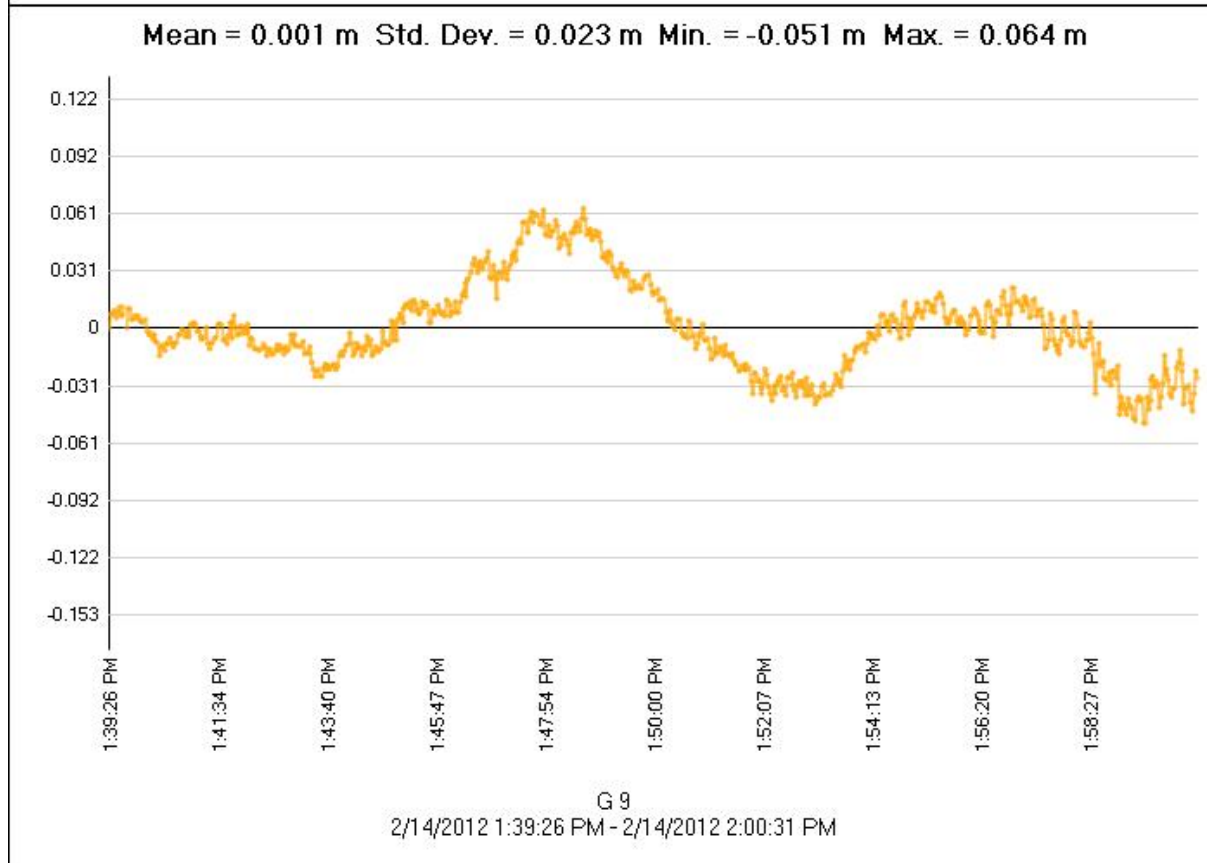
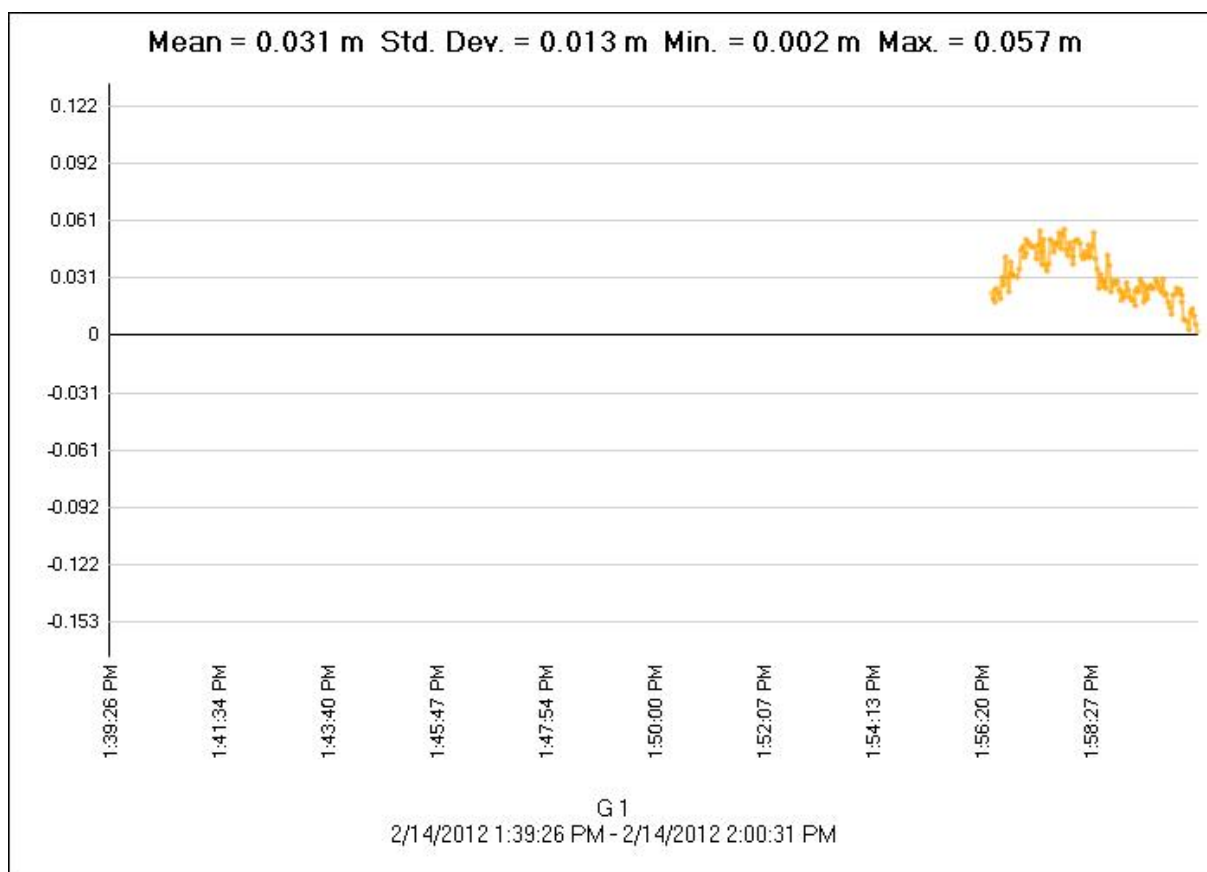
Occupations

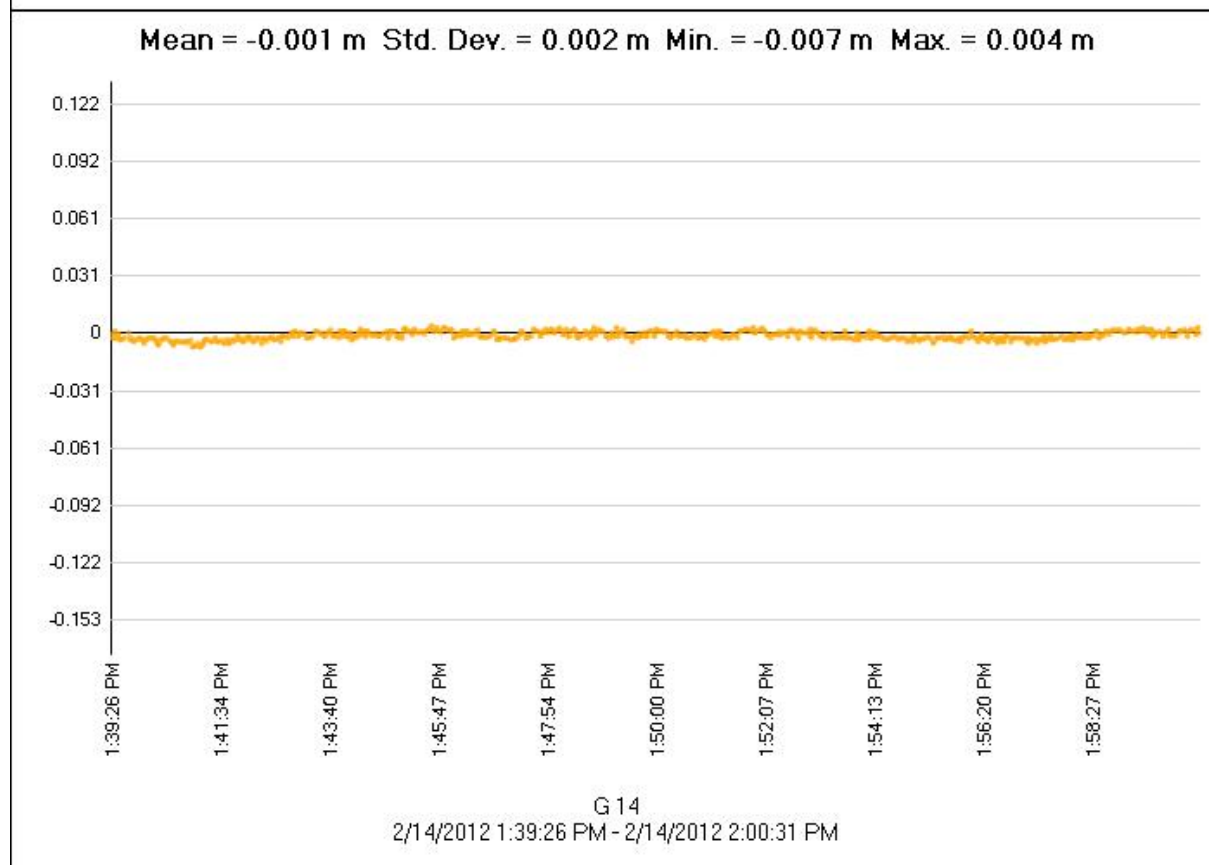
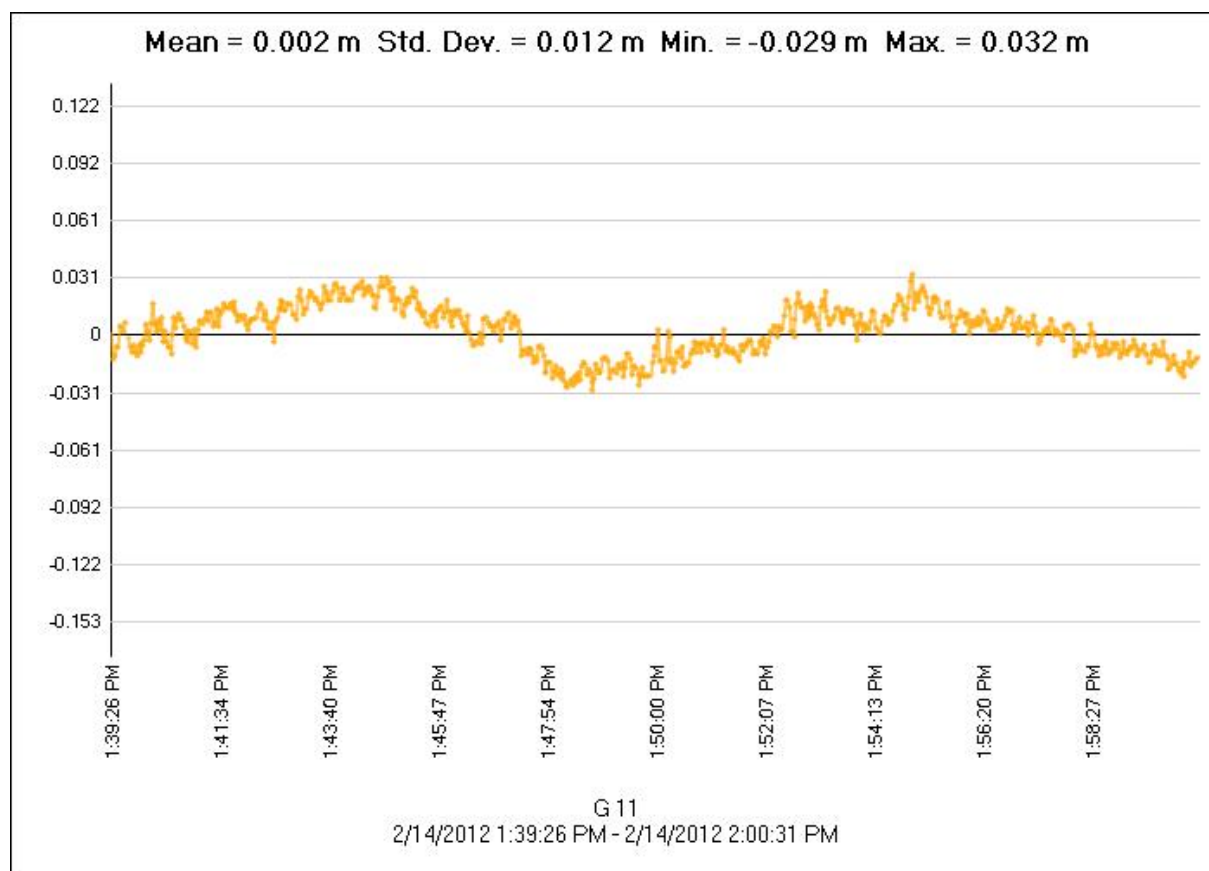
	From	To
Point ID:	JH0456	FVA10-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080454.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

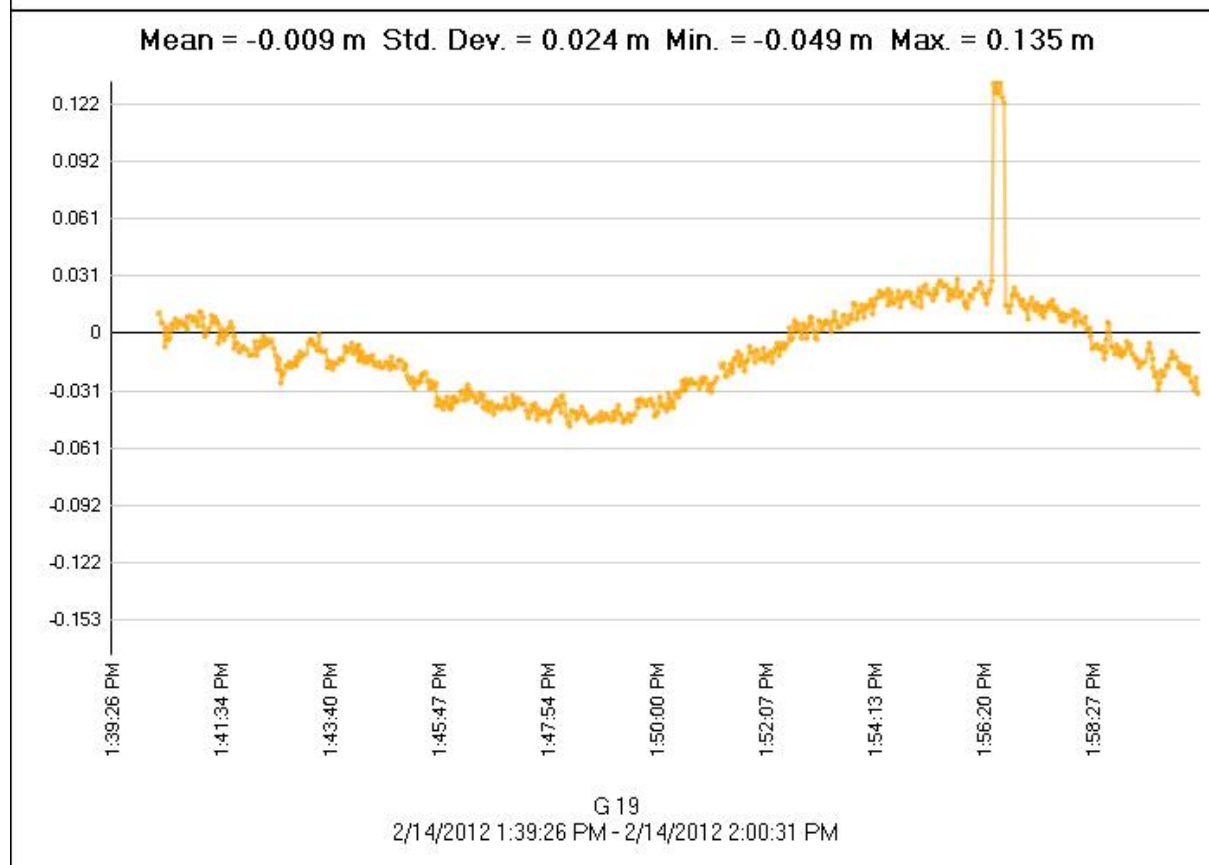
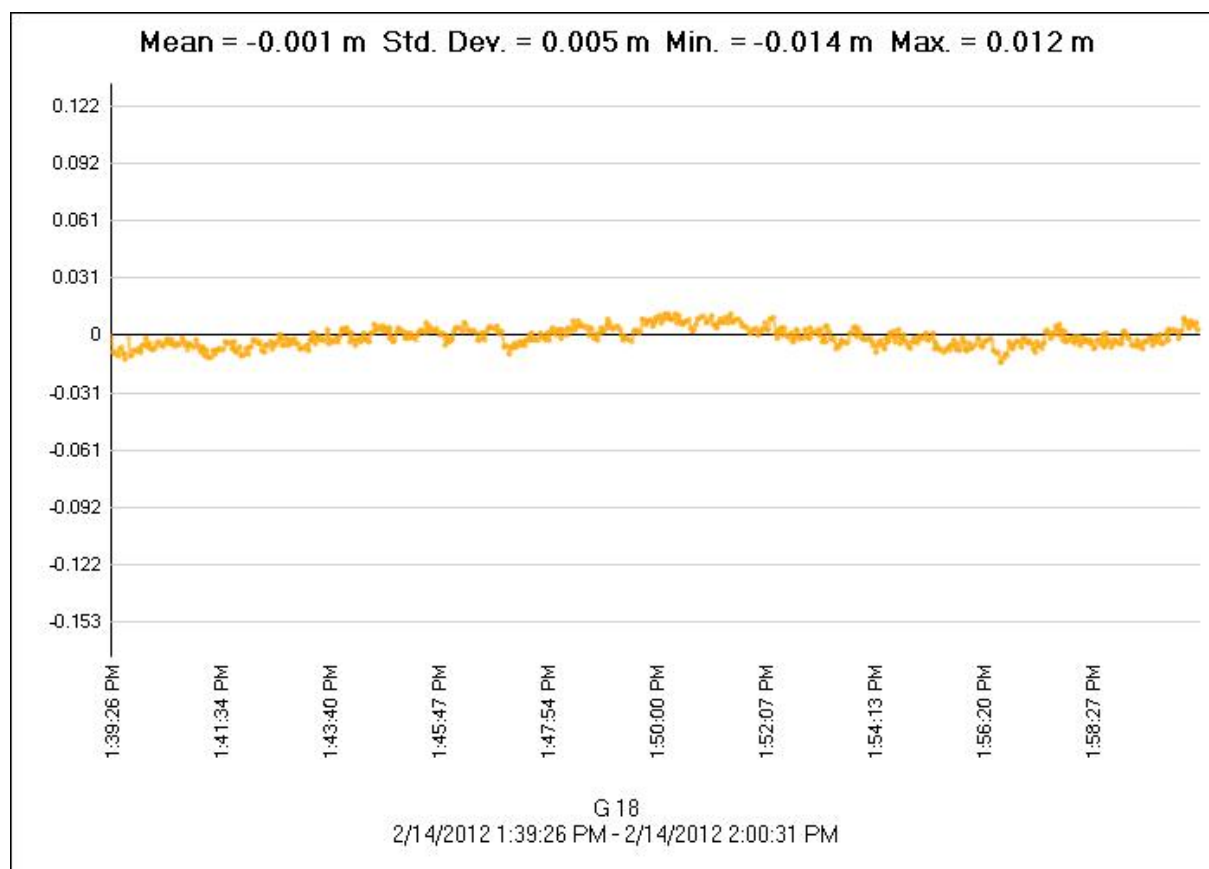
Tracking Summary

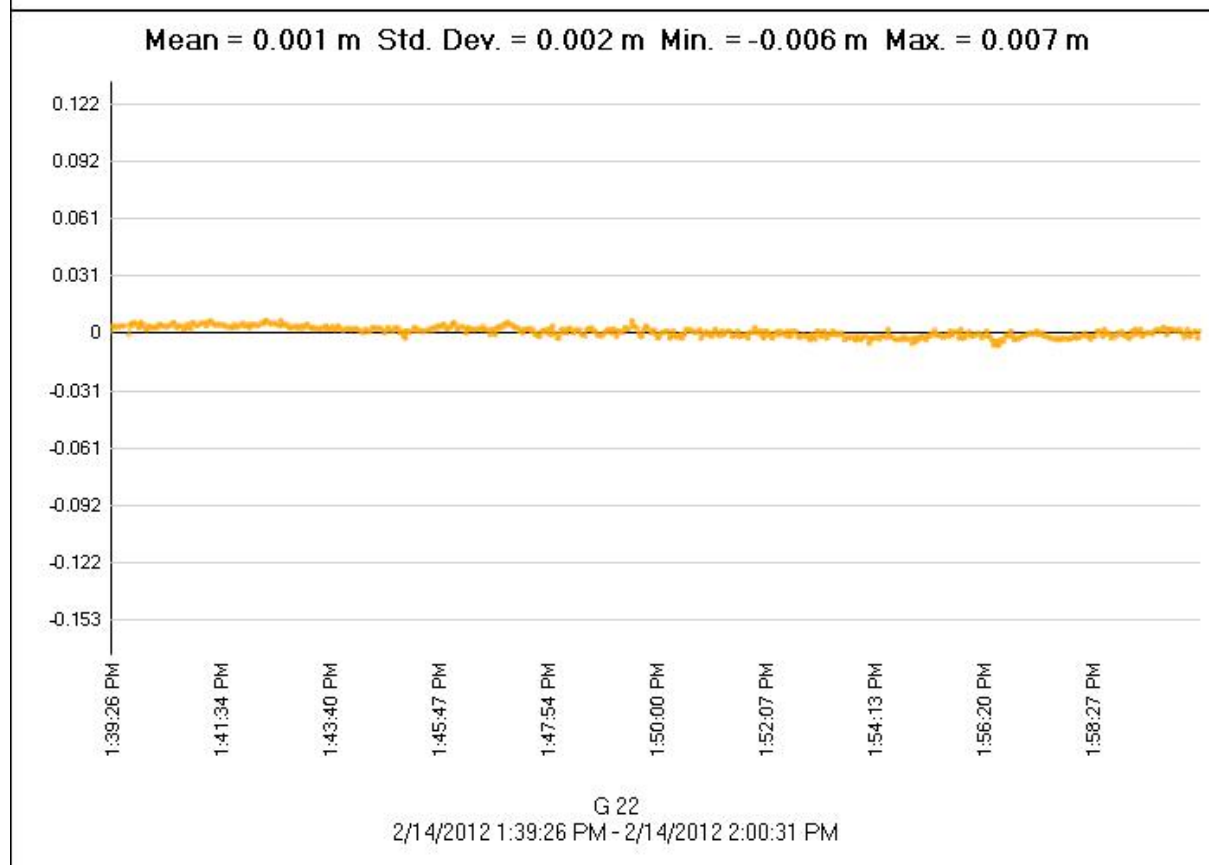
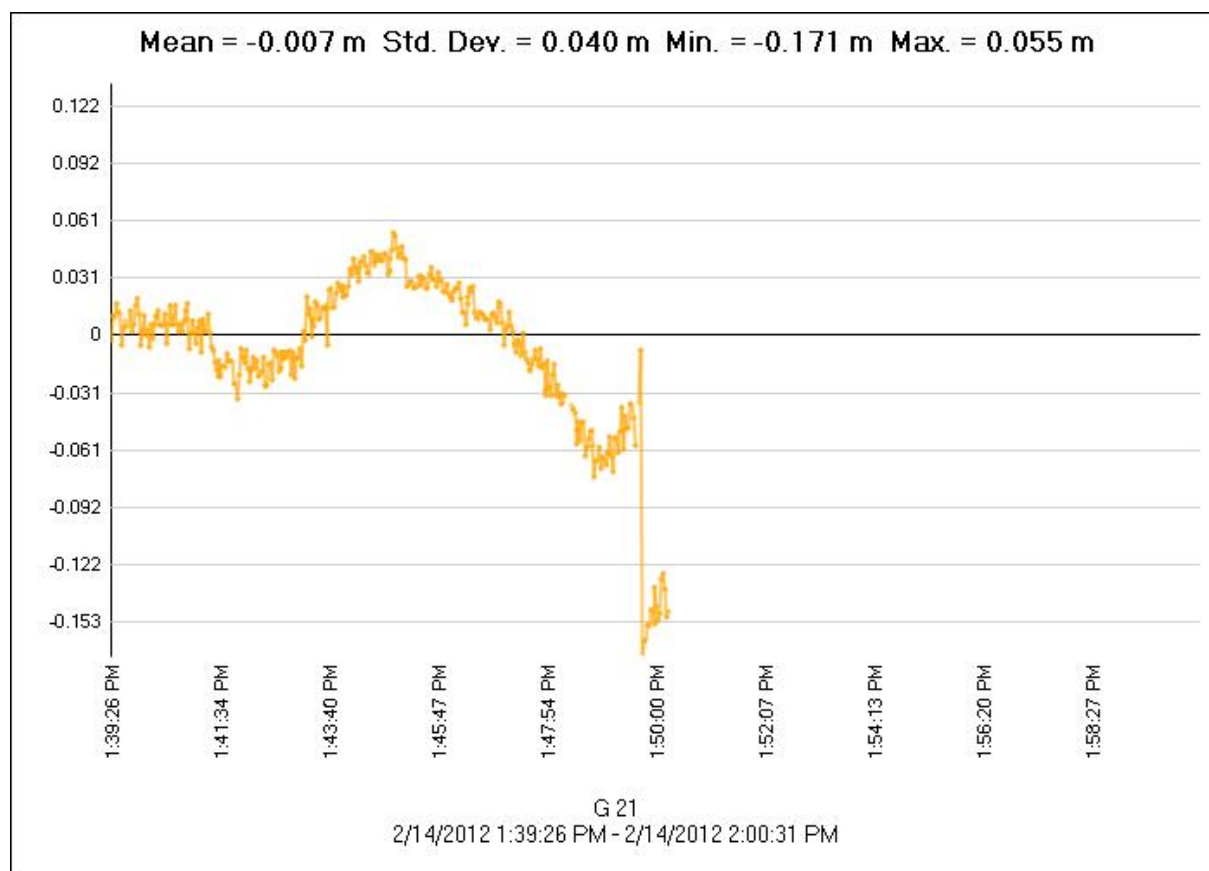
SV		2/14/2012 1:39:25 PM										Duration: 00:21:06 Major interval: 00:01:00										2/14/2012 2:00:31 PM																			
		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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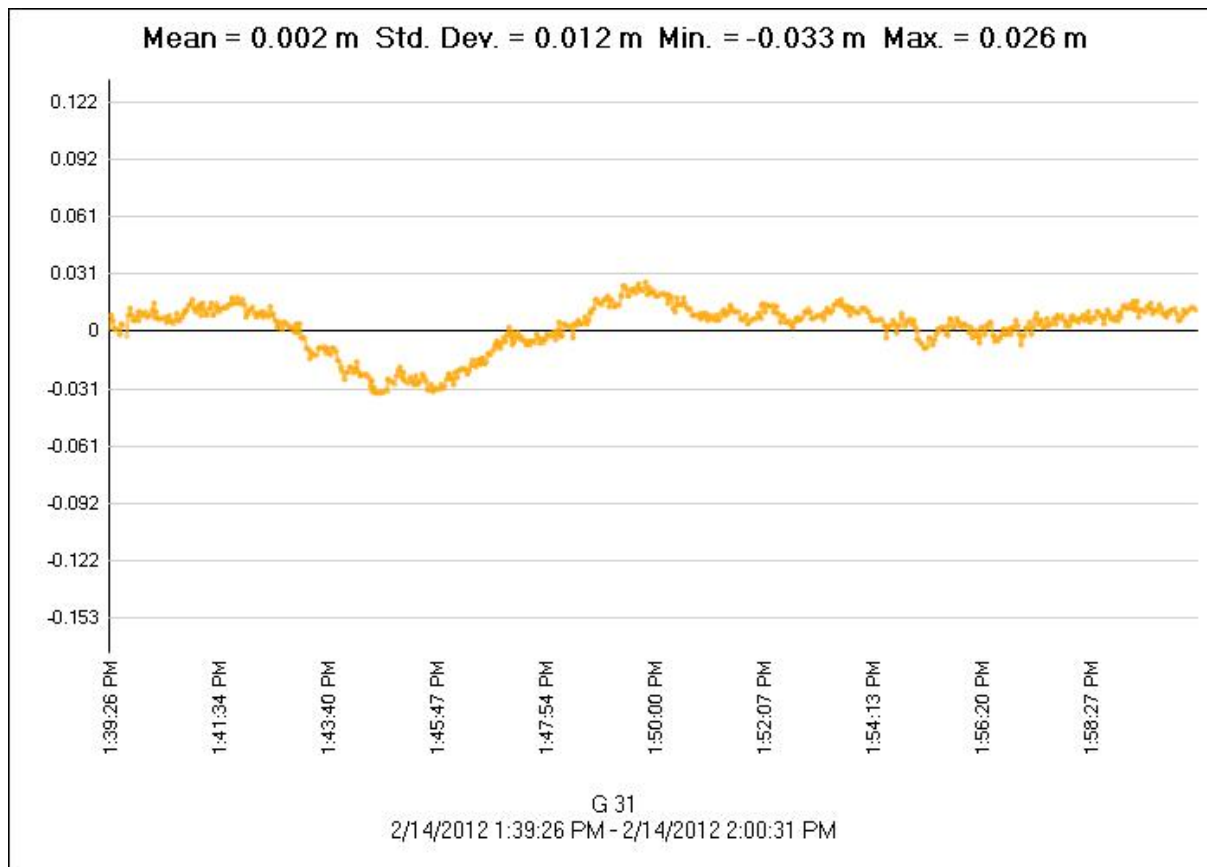
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA49-B2 (4:05:55 PM-4:25:32 PM) (S154)

Baseline observation: JH0456 --- FVA49-B2 (B154)

Processed: 3/21/2012 2:59:31 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.009 m

Vertical precision: 0.012 m

RMS: 0.002 m

Maximum PDOP: 2.093

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 4:05:55 PM (Local: UTC-7hr)

Processing stop time: 2/14/2012 4:25:32 PM (Local: UTC-7hr)

Processing duration: 00:19:37

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA49-B2				
Grid		Local		Global	
Easting	311676.784 m	Latitude	N38°42'00.71284"	Latitude	N38°42'00.71284"
Northing	4285733.956 m	Longitude	W101°09'56.22022"	Longitude	W101°09'56.22022"
Elevation	947.676 m	Height	923.224 m	Height	923.224 m

Vector					
9Ughb[	-23586.521 m	NS Fwd Azimuth	315°30'35"	L	-20774.111 m
Bcfh\jb[	25019.119 m	Ellipsoid Dist.	34384.841 m	M	19585.674 m
9`Yj Uhcb	36.357 m	<Y][\h	36.821 m	N	19170.009 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.003 m	Point Type	0.006 m
Point ID	0.006 m	Point Description	0.006 m	Point Type	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000078205		
Y	0.0000059586	0.0000344877	
Z	-0.0000012457	-0.0000092389	0.0000164019

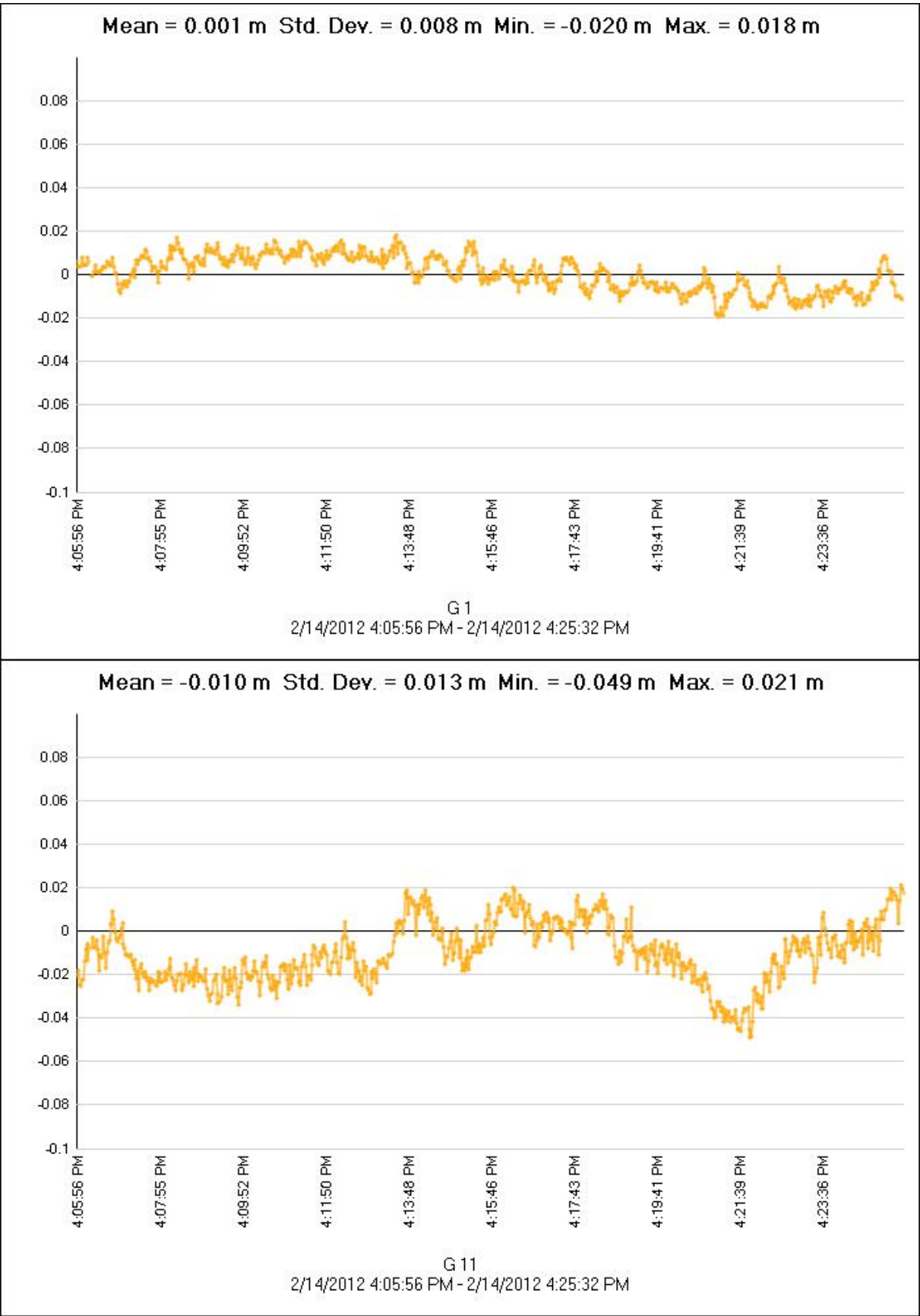
Occupations

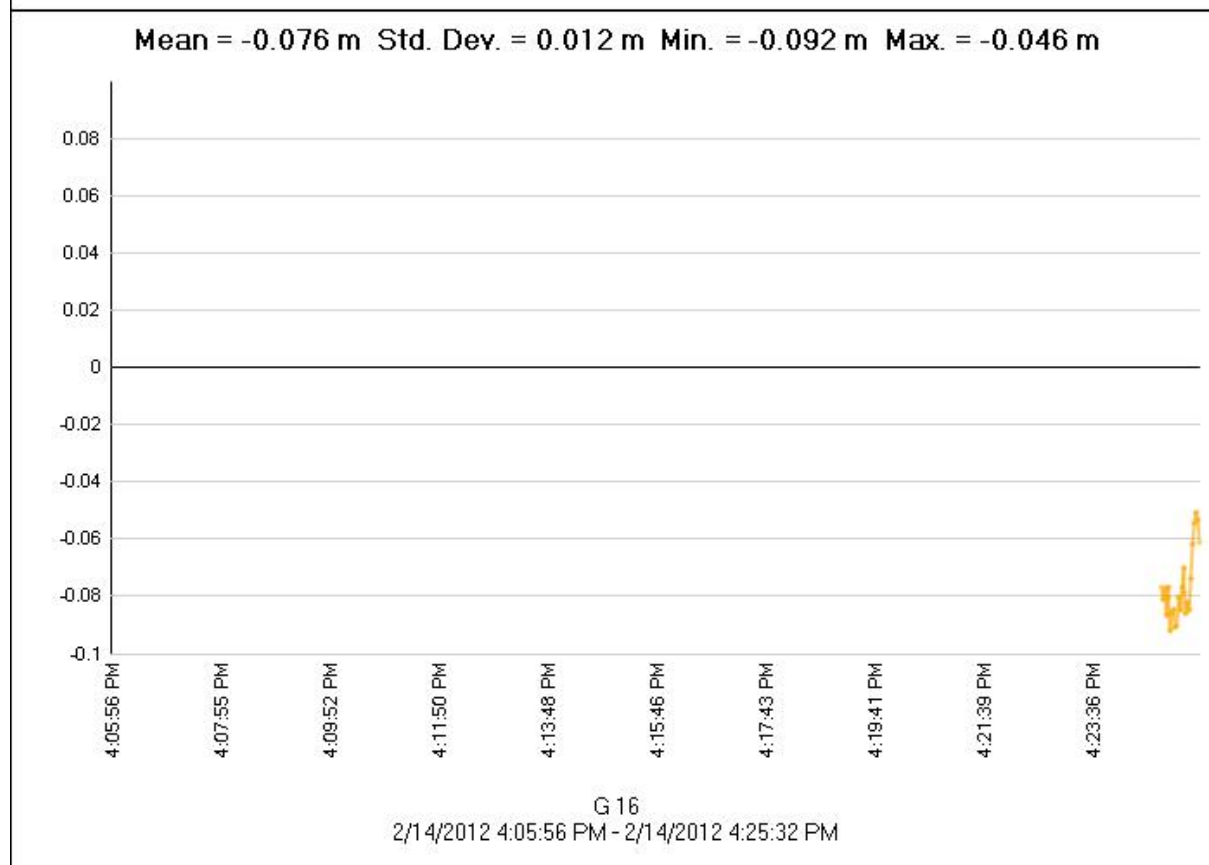
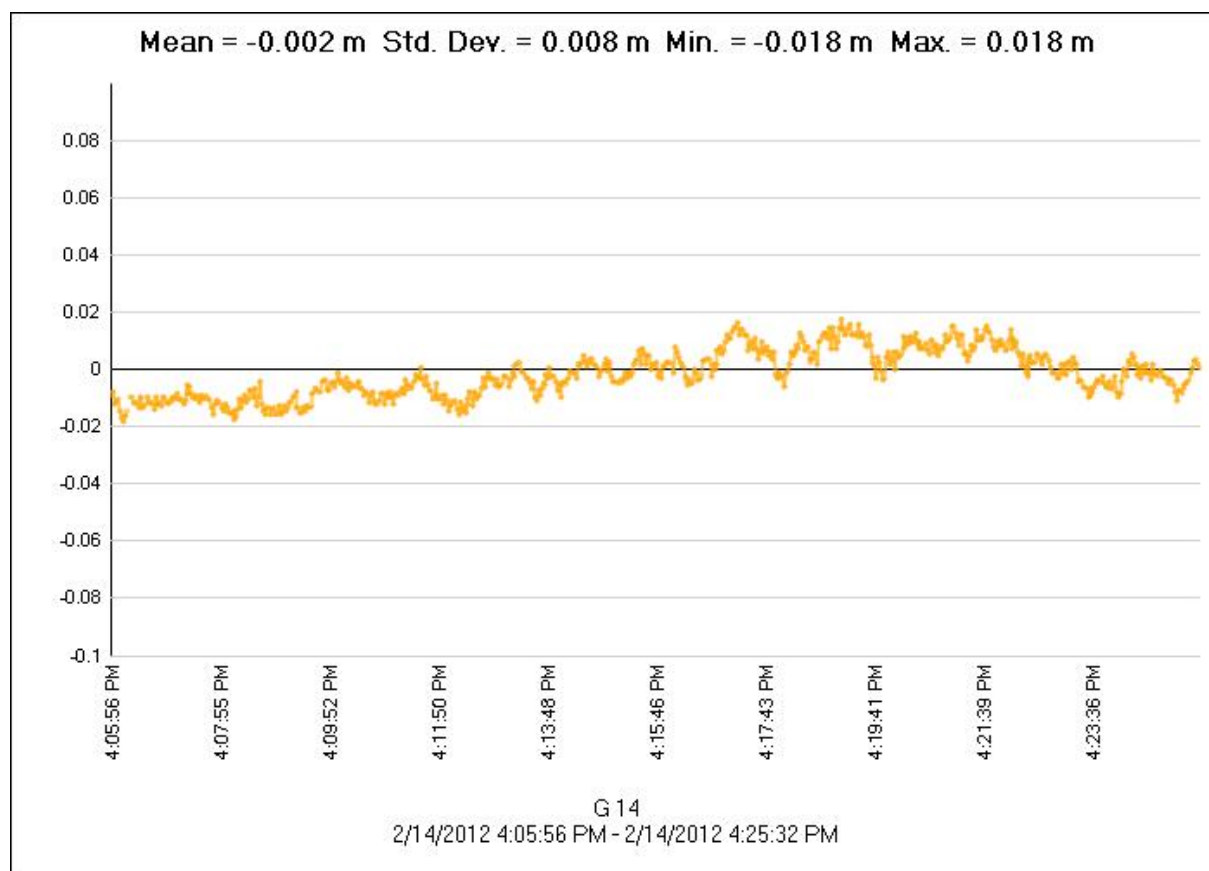
	From	To
Point ID:	JH0456	FVA49-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080455.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/14/2012 4:05:55 PM	Duration: 00:19:37	Major interval: 00:01:00	2/14/2012 4:25:32 PM
G 1	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 16	L1 L2			
G 20	L1 L2			
G 22	L1 L2			
G 23	L1 L2			
G 25	L1 L2			
G 30	L1 L2			
G 31	L1 L2			
G 32	L1 L2			

Residuals



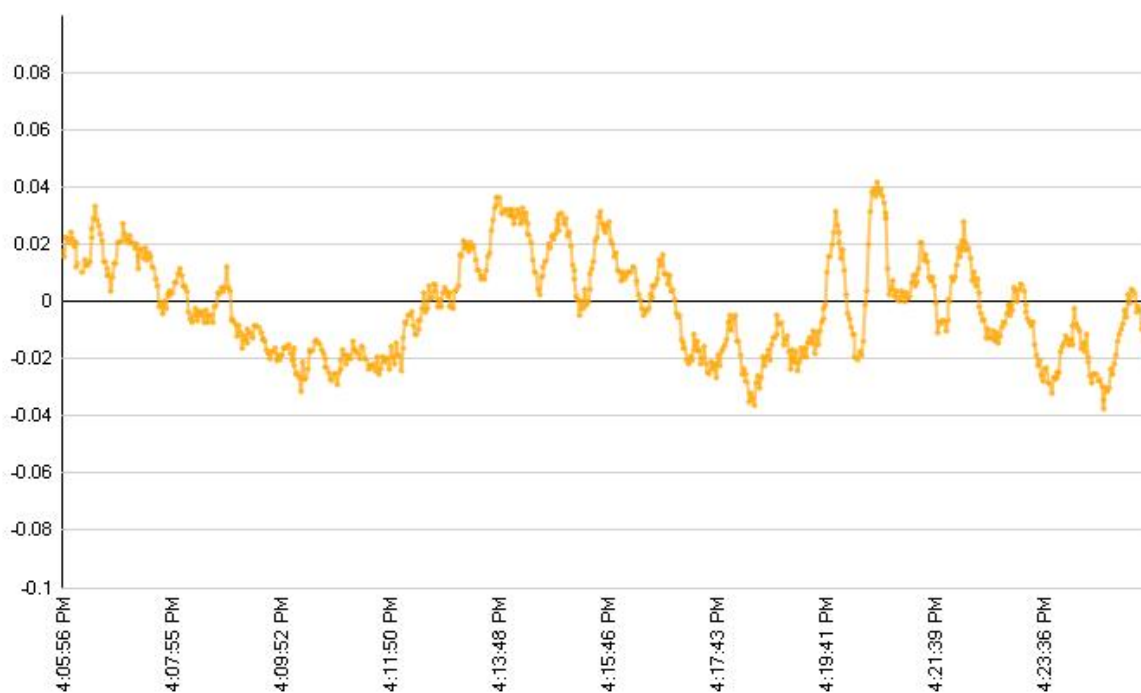


Mean = 0.001 m Std. Dev. = 0.010 m Min. = -0.024 m Max. = 0.022 m



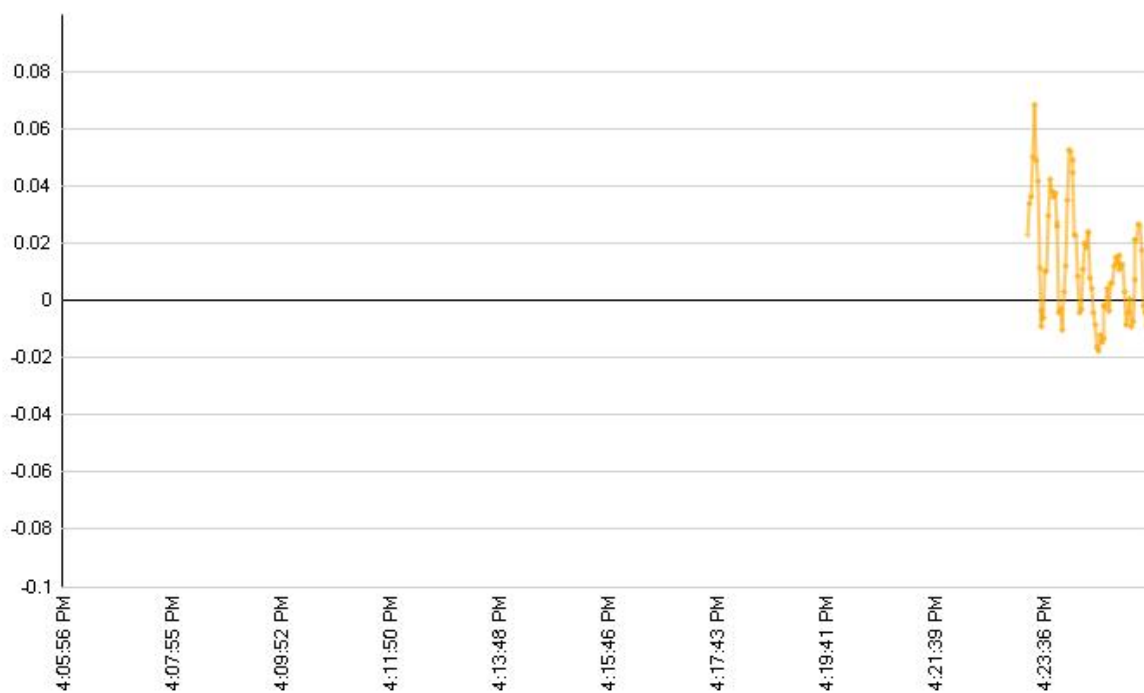
G 20
2/14/2012 4:05:56 PM - 2/14/2012 4:25:32 PM

Mean = -0.001 m Std. Dev. = 0.017 m Min. = -0.038 m Max. = 0.042 m



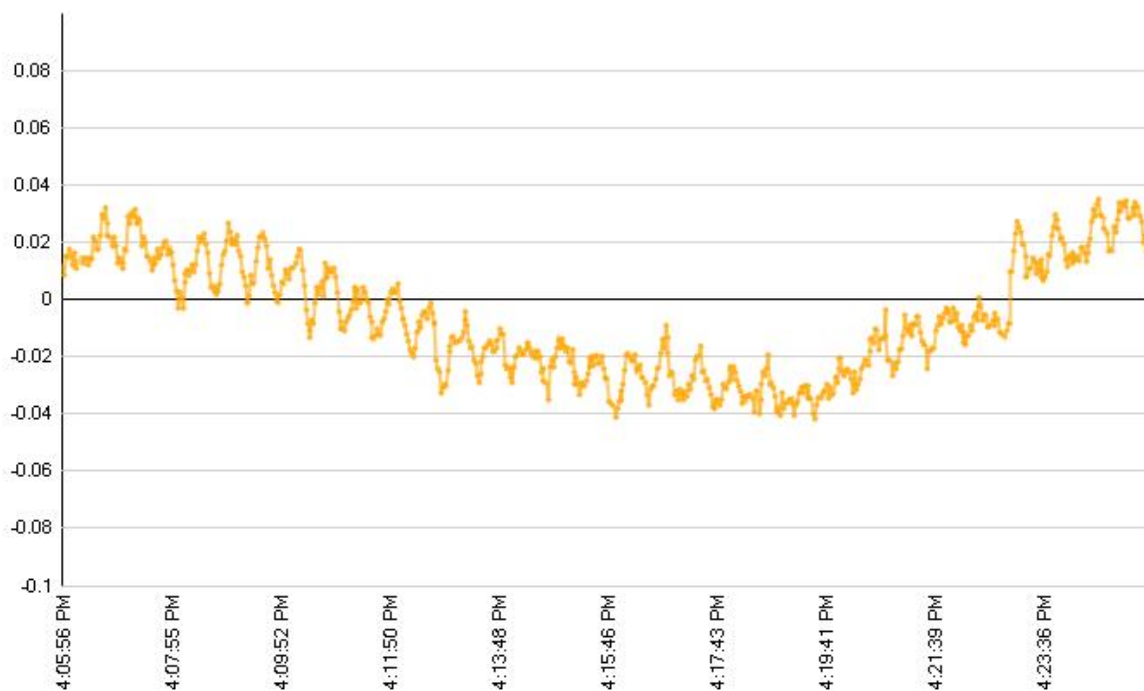
G 22
2/14/2012 4:05:56 PM - 2/14/2012 4:25:32 PM

Mean = 0.012 m Std. Dev. = 0.018 m Min. = -0.018 m Max. = 0.068 m



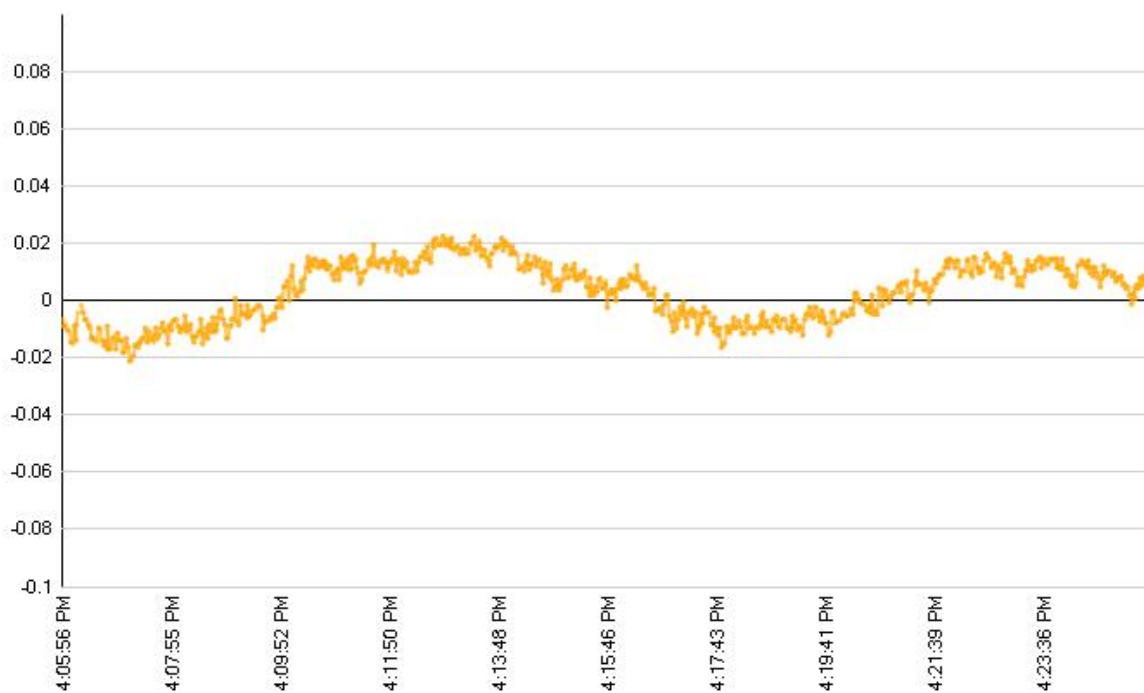
G 23
2/14/2012 4:05:56 PM - 2/14/2012 4:25:32 PM

Mean = -0.006 m Std. Dev. = 0.019 m Min. = -0.042 m Max. = 0.035 m



G 25
2/14/2012 4:05:56 PM - 2/14/2012 4:25:32 PM

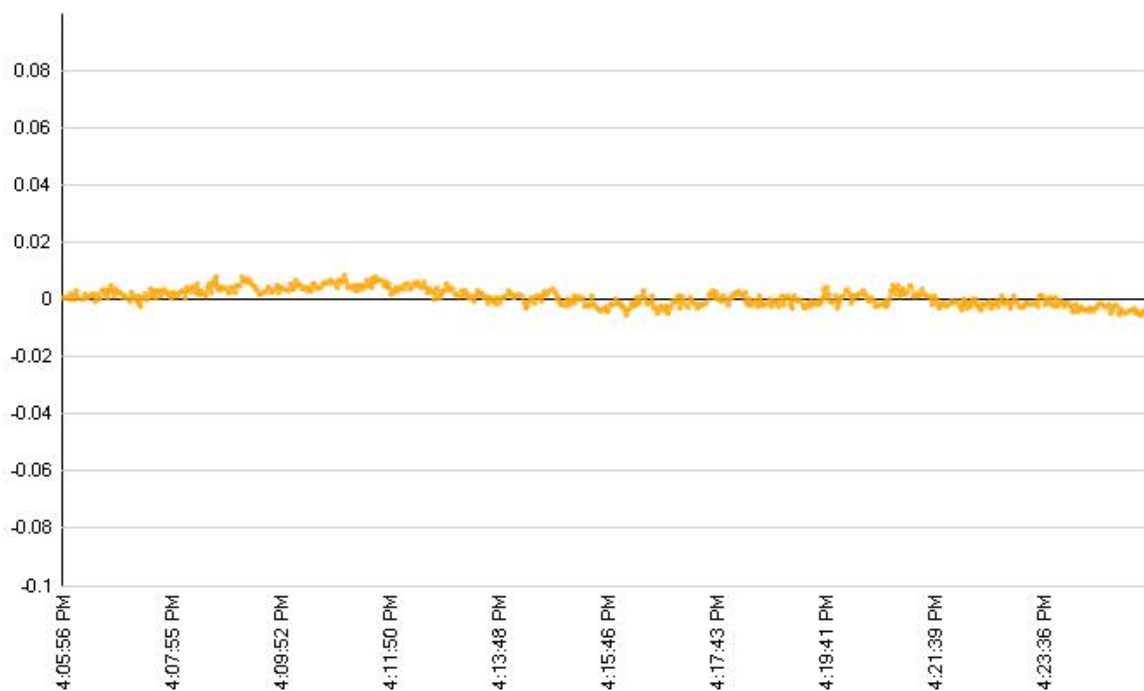
Mean = 0.003 m Std. Dev. = 0.010 m Min. = -0.021 m Max. = 0.023 m



G 30

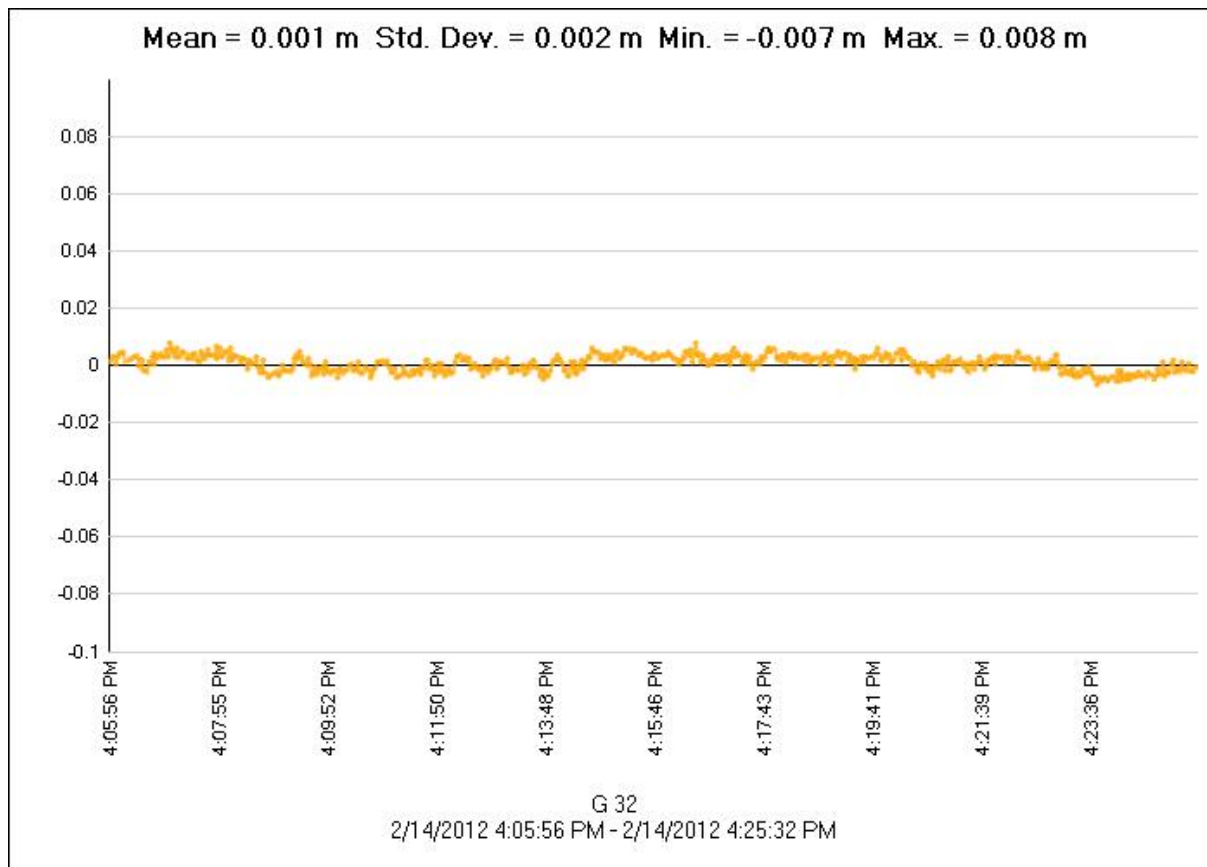
2/14/2012 4:05:56 PM - 2/14/2012 4:25:32 PM

Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.006 m Max. = 0.009 m



G 31

2/14/2012 4:05:56 PM - 2/14/2012 4:25:32 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA21-B2 (11:12:24 AM-11:30:55 AM) (S158)

Baseline observation: JH0456 --- SVA21-B2 (B158)

Processed: 3/21/2012 2:59:05 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.014 m

Vertical precision: 0.017 m

RMS: 0.003 m

Maximum PDOP: 2.894

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 11:12:24 AM (Local: UTC-7hr)

Processing stop time: 2/14/2012 11:30:55 AM (Local: UTC-7hr)

Processing duration: 00:18:31

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA21-B2				
Grid		Local		Global	
Easting	382291.403 m	Latitude	N38°16'37.38875"	Latitude	N38°16'37.38875"
Northing	4237411.689 m	Longitude	W100°20'44.64622"	Longitude	W100°20'44.64622"
Elevation	816.871 m	Height	791.296 m	Height	791.296 m

Vector					
9Ughb[	47028.099 m	NS Fwd Azimuth	115°11'10"	L	44072.502 m
BcfA\jb[	-23303.148 m	Ellipsoid Dist.	52493.019 m	M	-22386.531 m
9`Yj Uhcb	-94.448 m	<Y][\h	-95.107 m	N	-17683.121 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.003 m
Bcfh\]b[	0.006 m	'9~]dgc]X'8]gh"	0.004 m	M	0.008 m
'9`Yj Uhcb	0.008 m	' <Y][\h	0.008 m	N	0.006 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000103224		
Y	0.0000062950	0.0000611674	
Z	-0.0000014969	-0.0000181909	0.0000409361

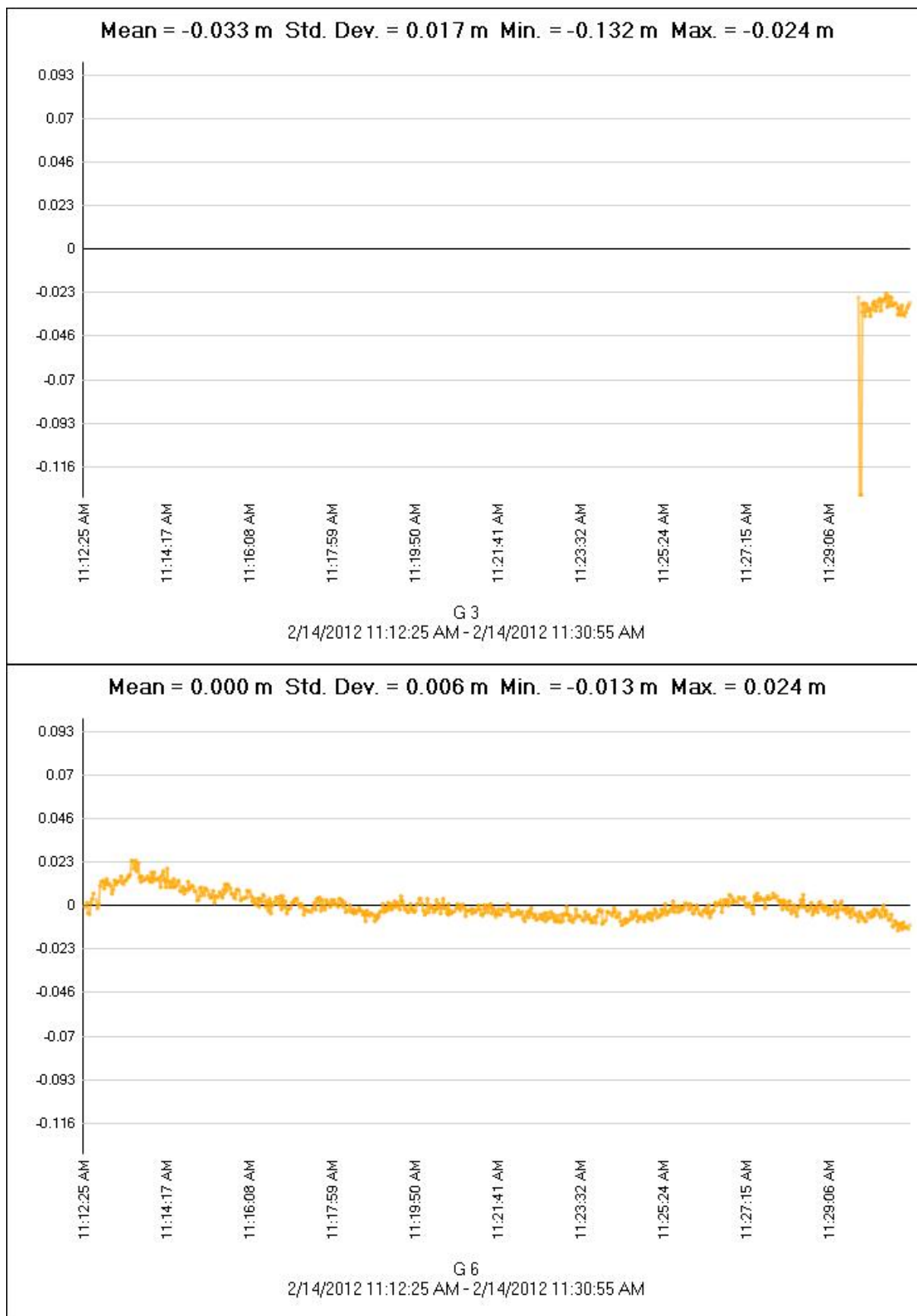
Occupations

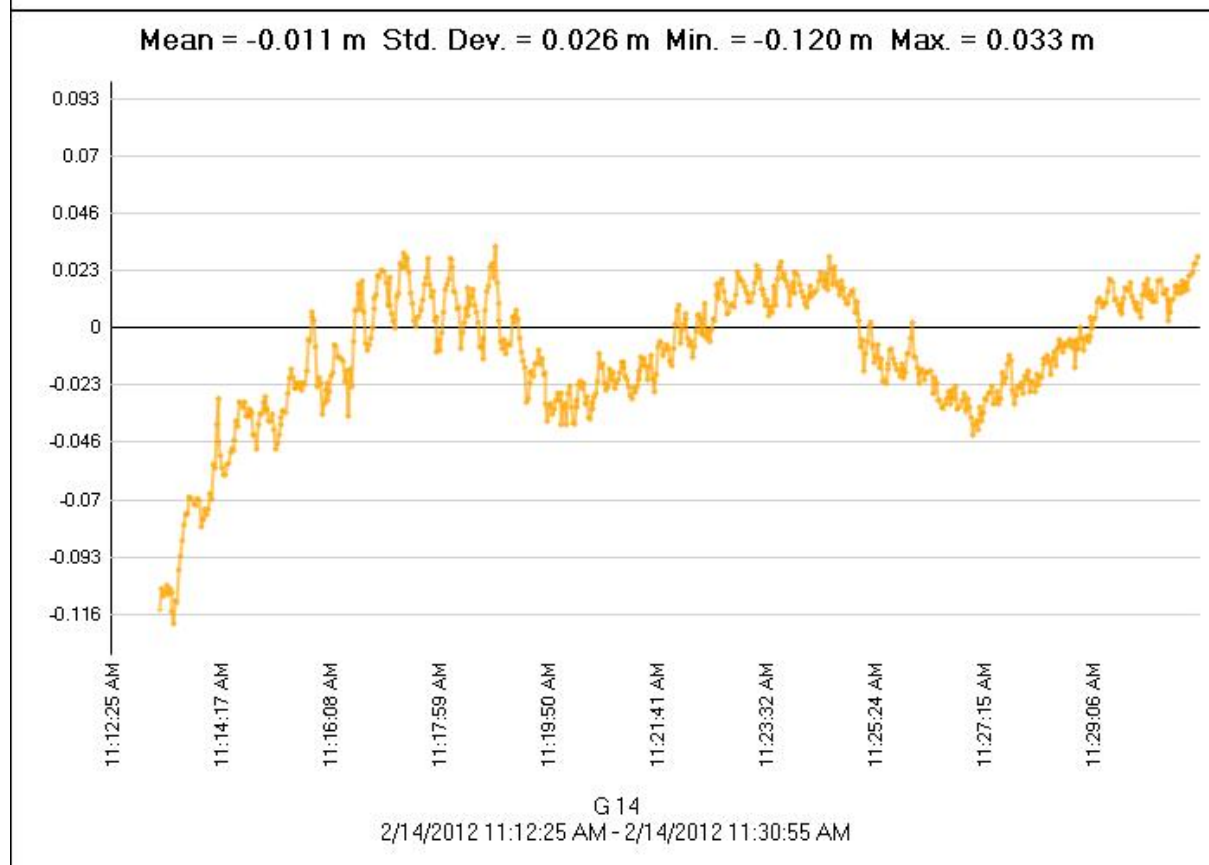
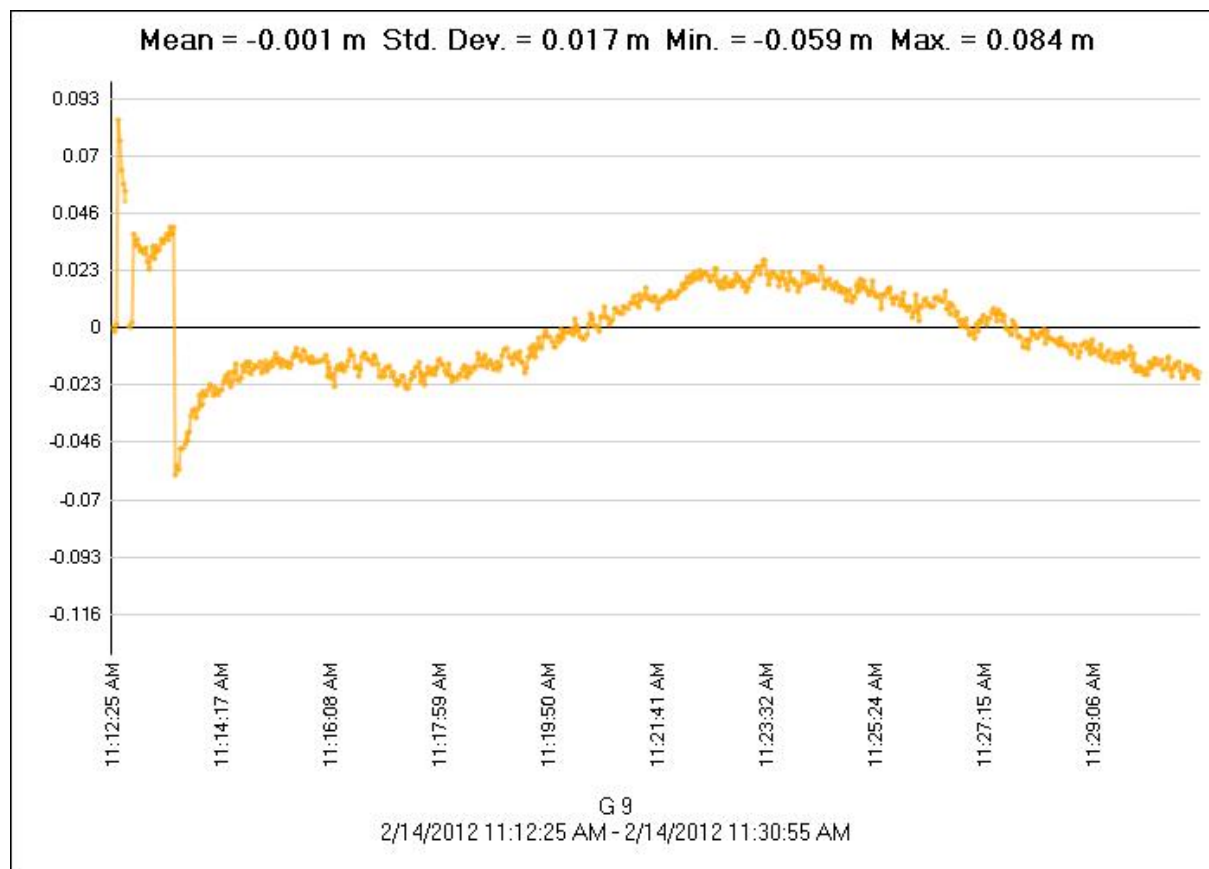
	From	To
Point ID:	JH0456	SVA21-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00040451.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

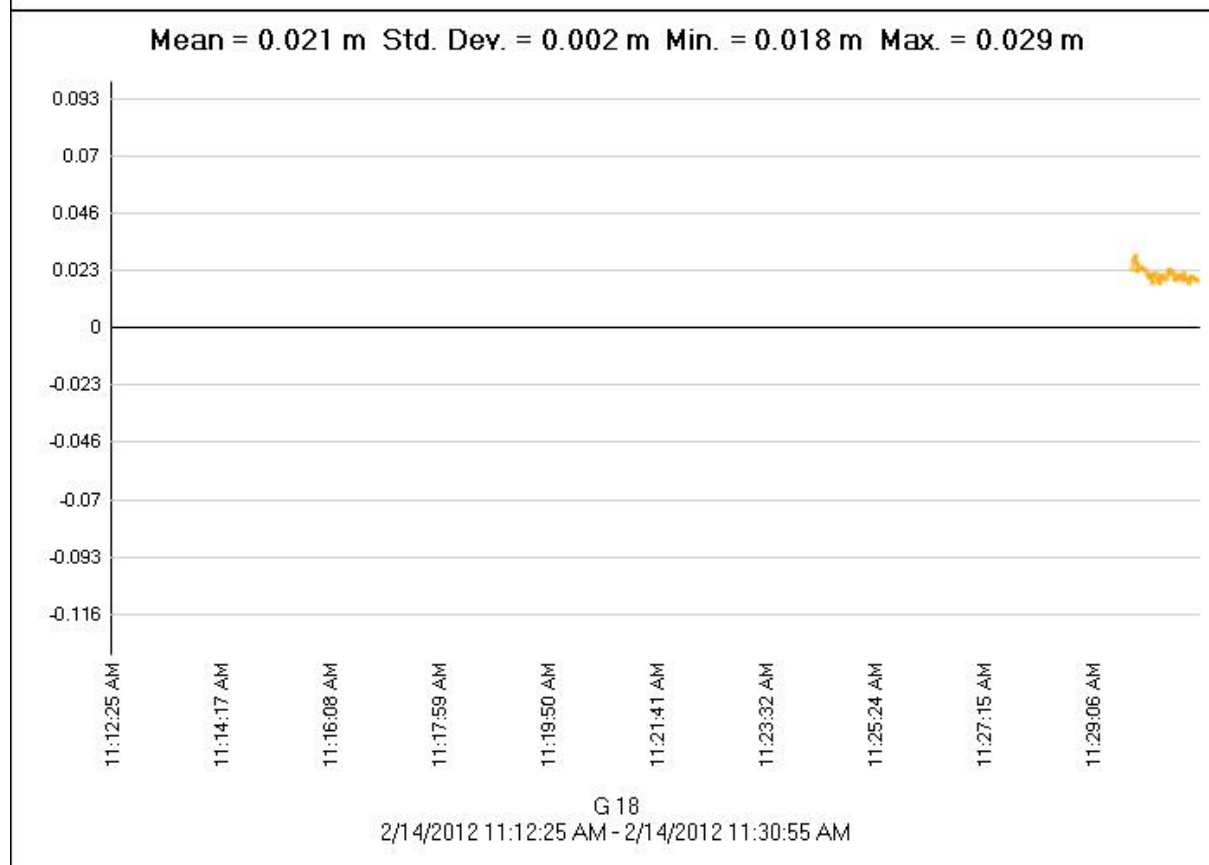
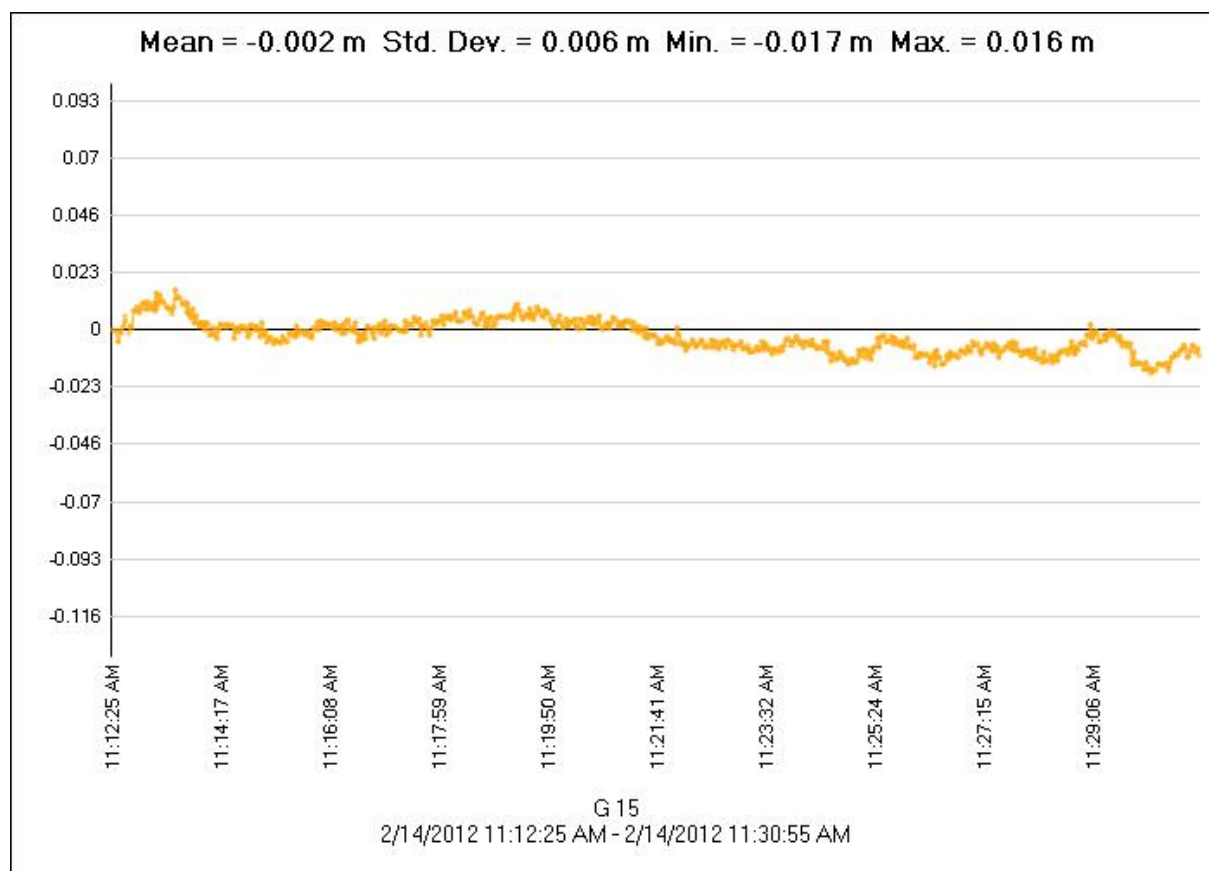
Tracking Summary

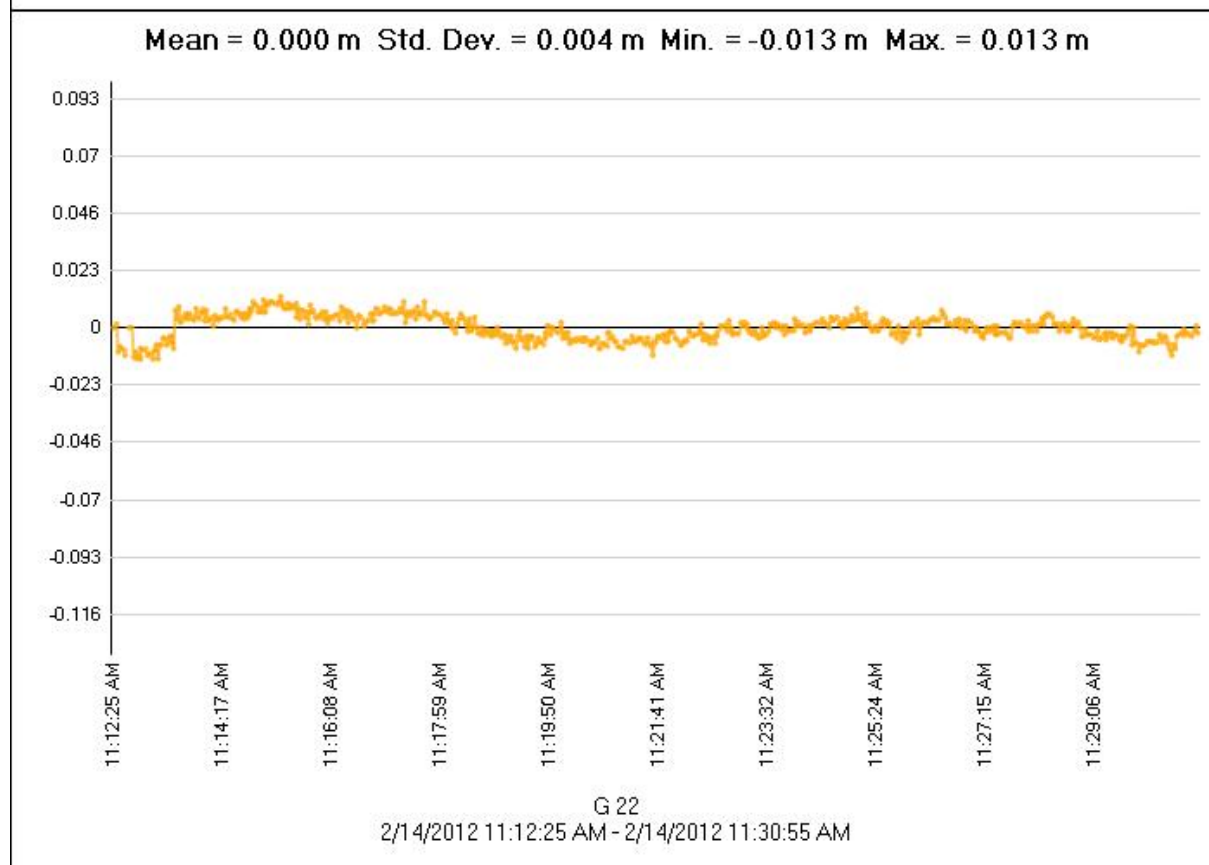
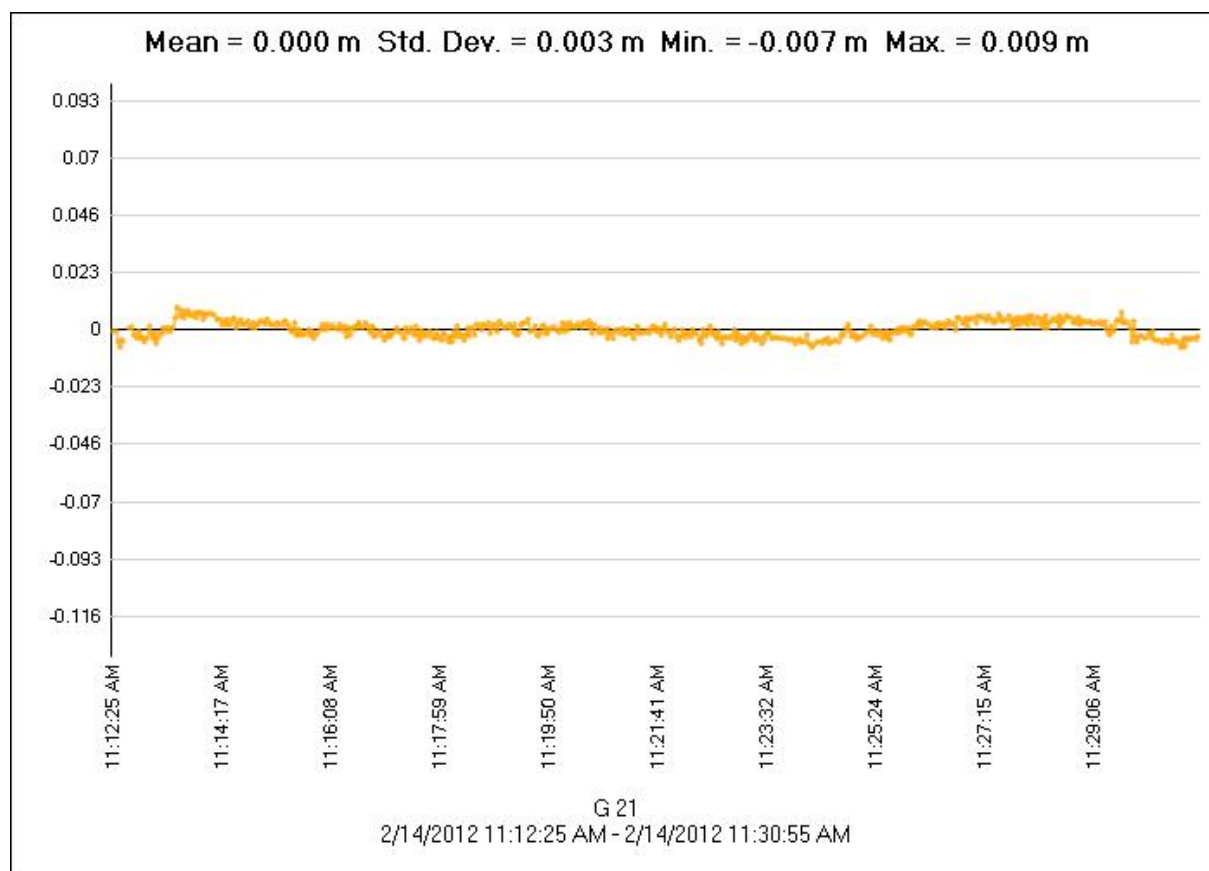


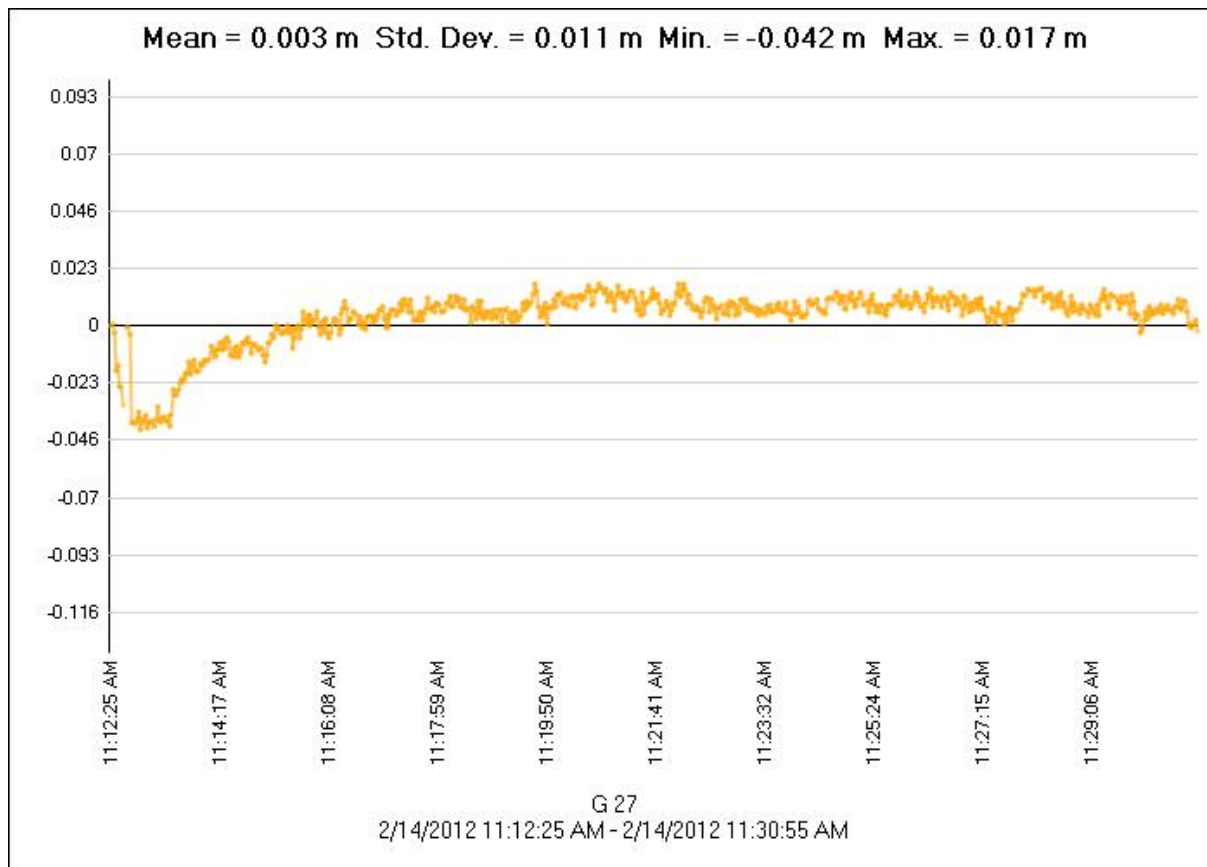
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA52-B2 (12:02:29 PM-12:22:35 PM) (S160)

Baseline observation: JH0456 --- SVA52-B2 (B160)

Processed: 3/21/2012 2:59:16 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.021 m

Vertical precision: 0.024 m

RMS: 0.001 m

Maximum PDOP: 2.159

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 12:02:29 PM (Local: UTC-7hr)

Processing stop time: 2/14/2012 12:22:35 PM (Local: UTC-7hr)

Processing duration: 00:20:06

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA52-B2				
Grid		Local		Global	
Easting	367022.448 m	Latitude	N38°14'01.55011"	Latitude	N38°14'01.55010"
Northing	4232843.451 m	Longitude	W100°31'09.80591"	Longitude	W100°31'09.80591"
Elevation	863.855 m	Height	838.515 m	Height	838.515 m

Vector					
9Ughb[	31759.144 m	NS Fwd Azimuth	130°05'50"	L	28576.816 m
BcfA\jb[	-27871.385 m	Ellipsoid Dist.	42260.000 m	M	-22596.685 m
9`Yj U\jcb	-47.464 m	<Y][\h	-47.888 m	N	-21427.600 m

Standard Errors

Vector errors:					
Point ID	0.008 m	Point Description	0°00'00"	Point Type	0.008 m
Point ID	0.006 m	Point Description	0.008 m	Point Type	0.009 m
Point ID	0.012 m	Point Description	0.012 m	Point Type	0.010 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000692310		
Y	-0.0000048477	0.0000869344	
Z	-0.0000195089	-0.0000579573	0.0000988978

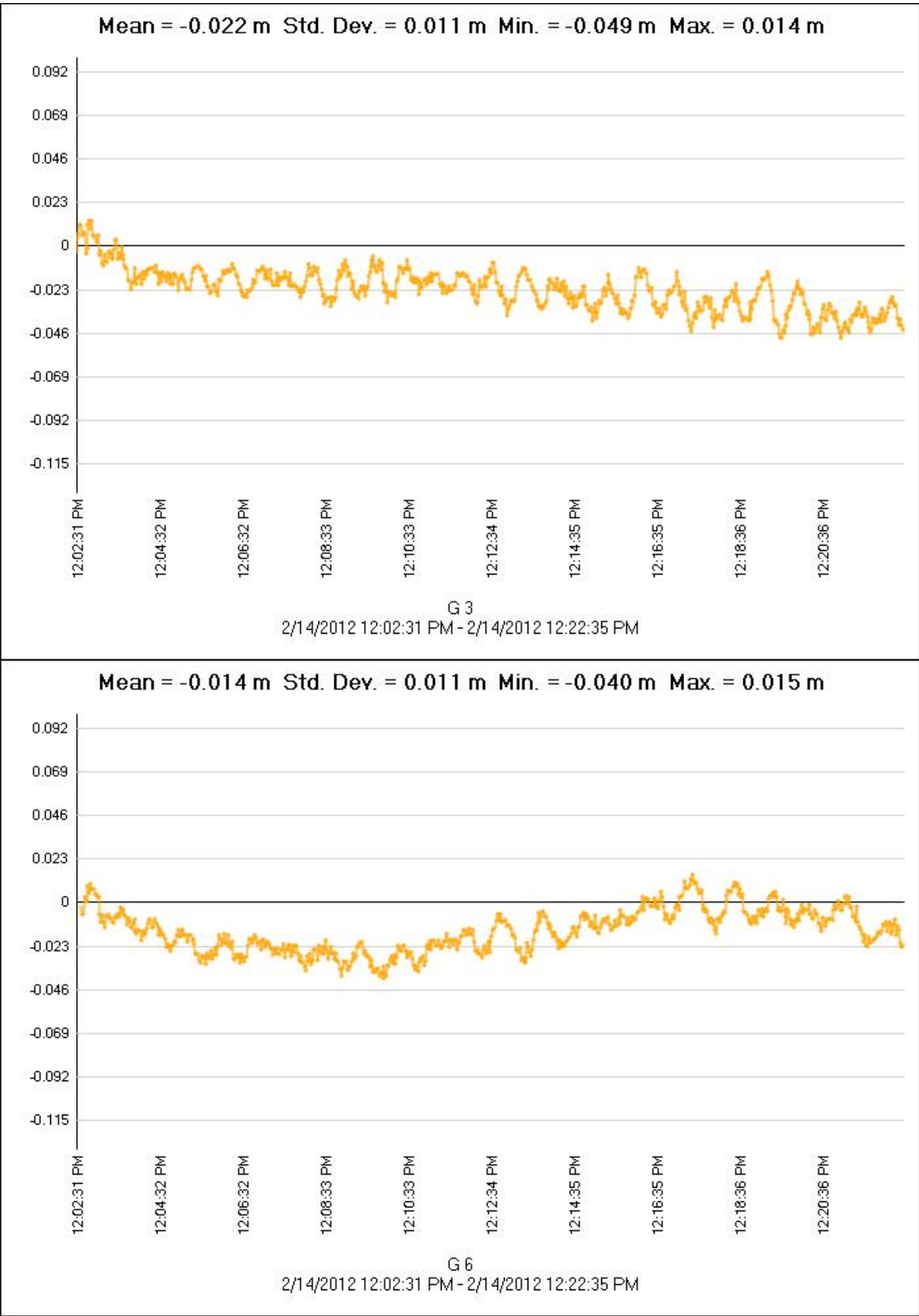
Occupations

	From	To
Point ID:	JH0456	SVA52-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040452.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

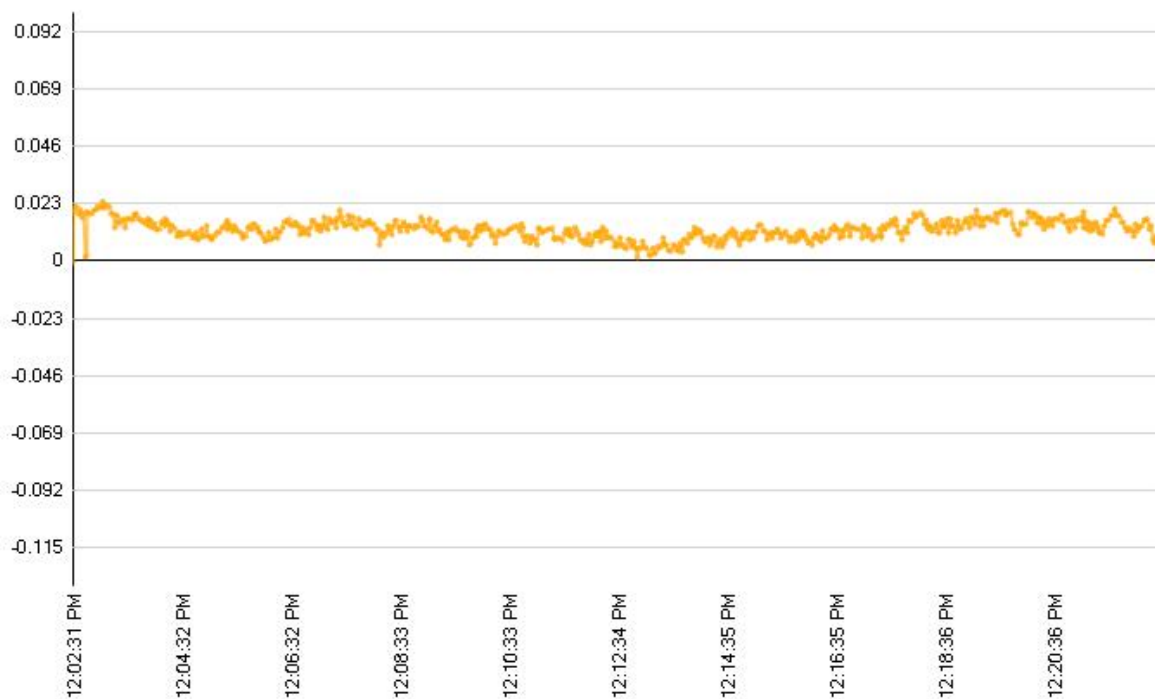
Tracking Summary

SV	2/14/2012 12:02:29 PM		Duration: 00:20:06 Major interval: 00:01:00		2/14/2012 12:22:35 PM	
G 3	L1					
	L2					
G 6	L1					
	L2					
G 9	L1					
	L2					
G 14	L1					
	L2					
G 15	L1					
	L2					
G 18	L1					
	L2					
G 19	L1					
	L2					
G 21	L1					
	L2					
G 22	L1					
	L2					
G 27	L1					
	L2					

Residuals



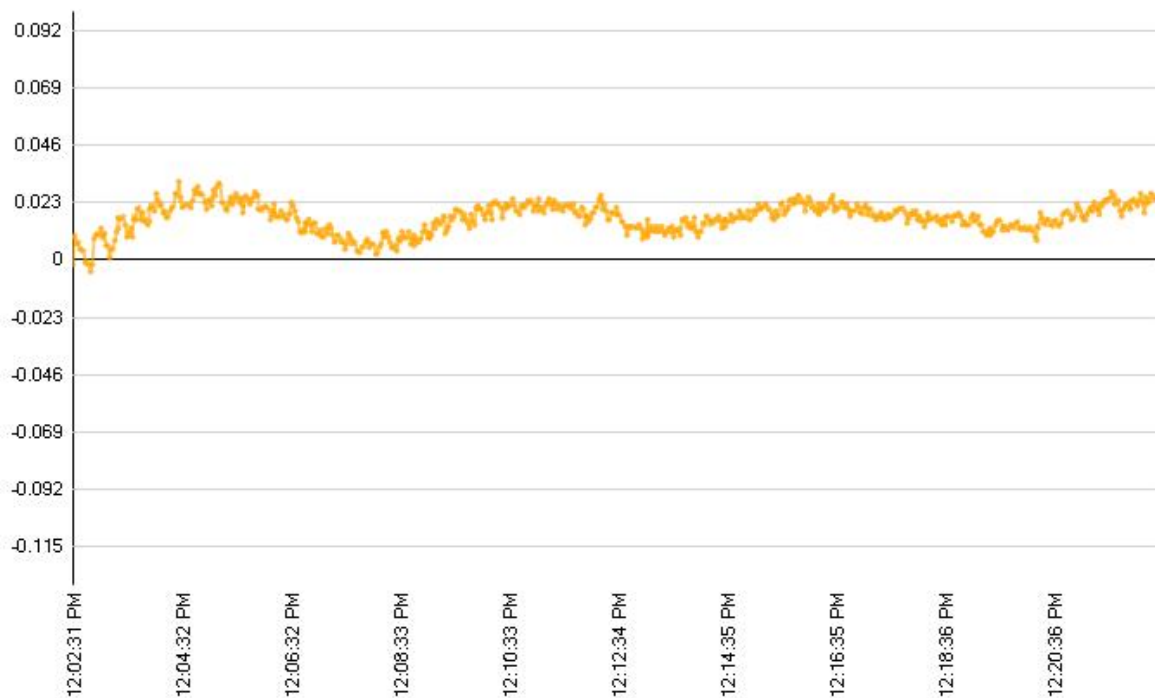
Mean = 0.012 m Std. Dev. = 0.004 m Min. = -0.001 m Max. = 0.024 m



G 9

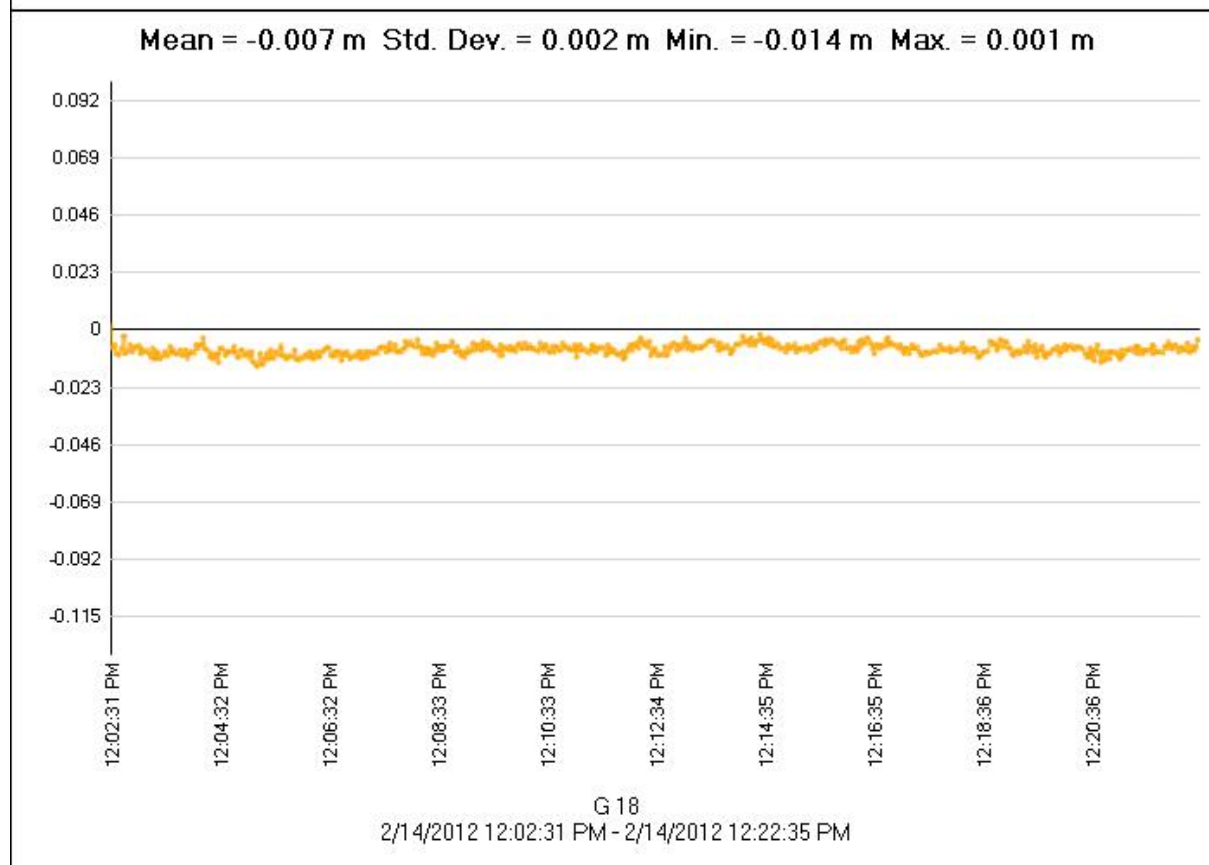
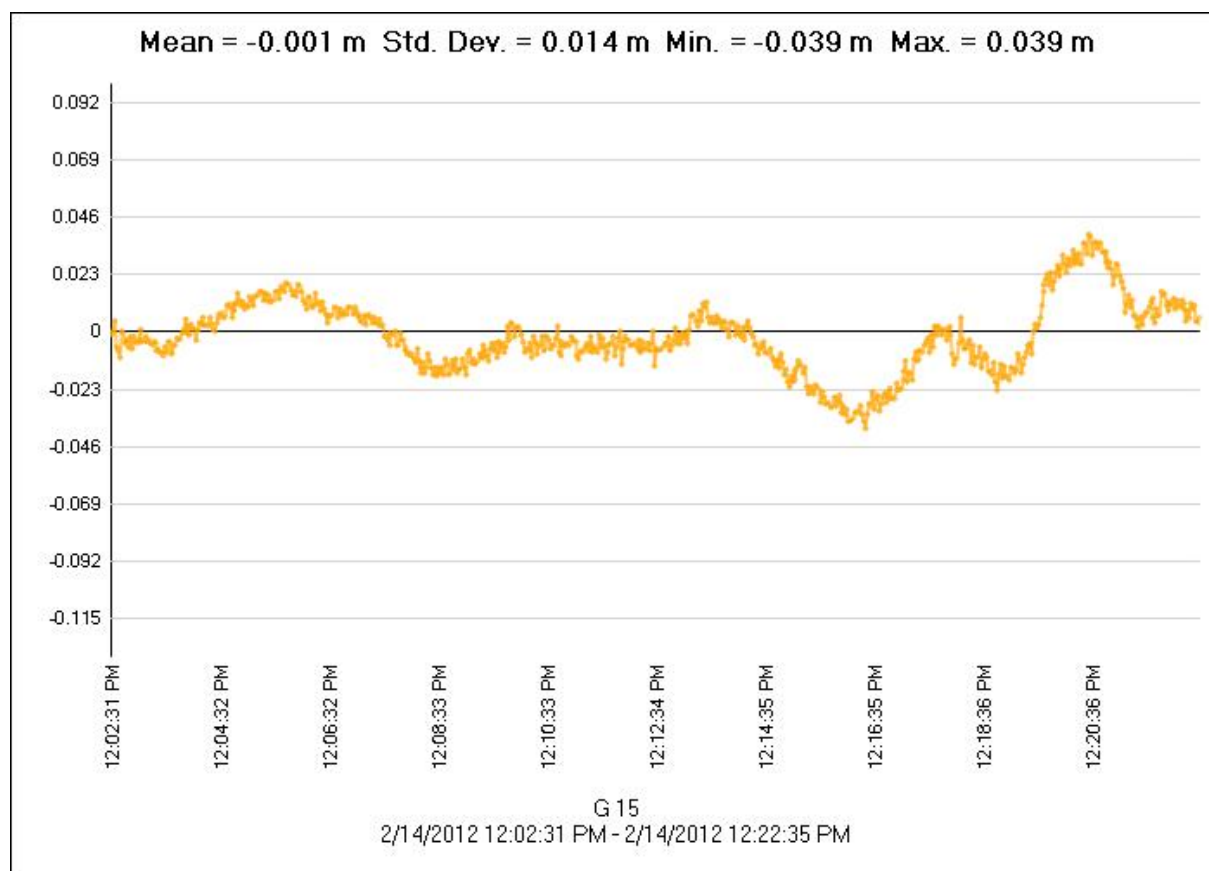
2/14/2012 12:02:31 PM - 2/14/2012 12:22:35 PM

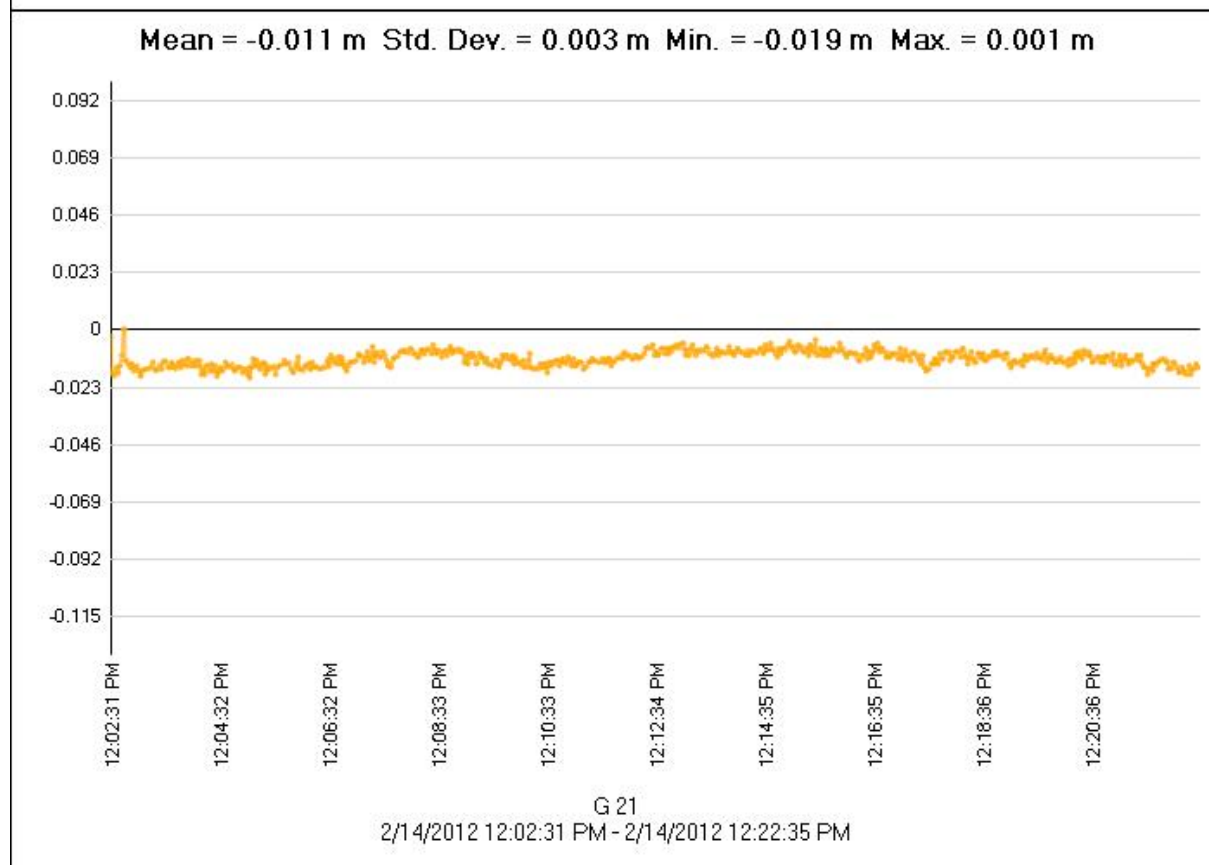
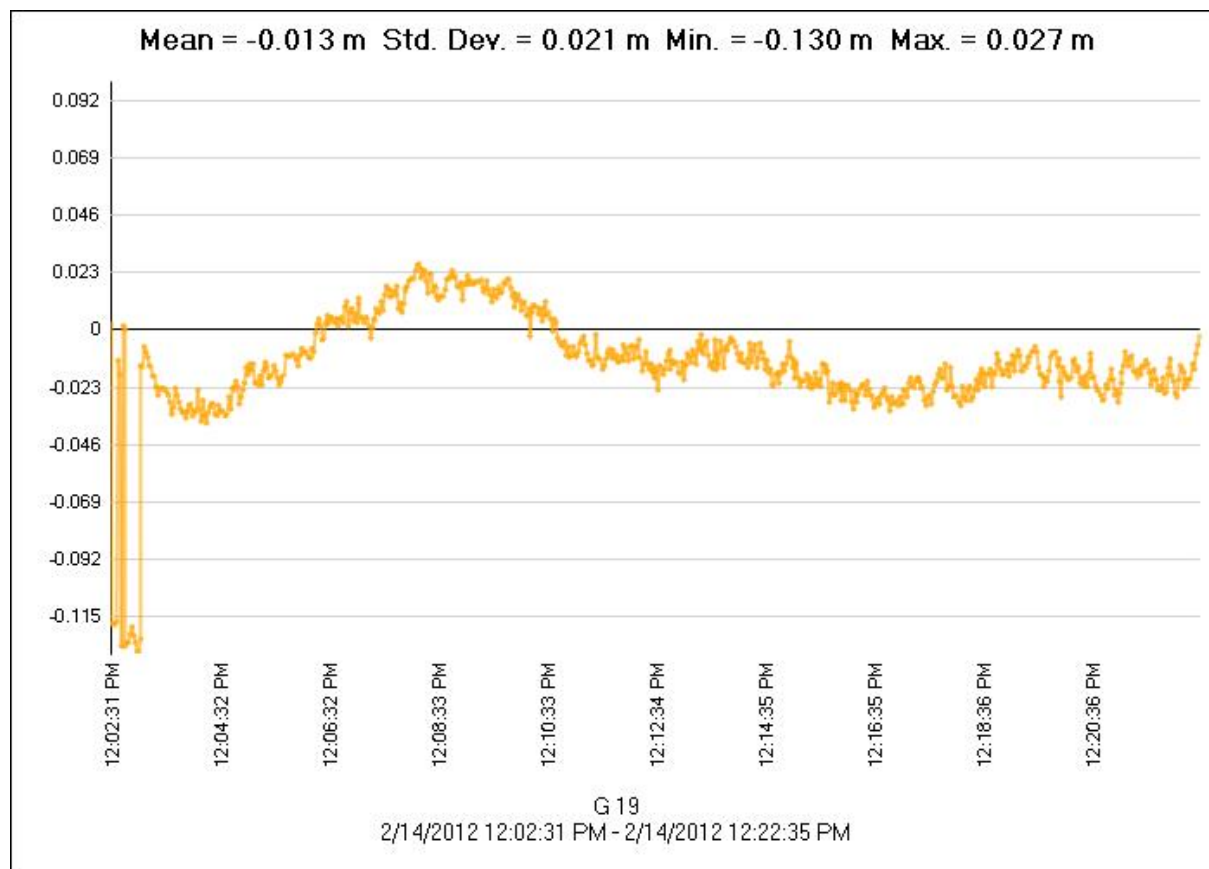
Mean = 0.016 m Std. Dev. = 0.006 m Min. = -0.004 m Max. = 0.032 m

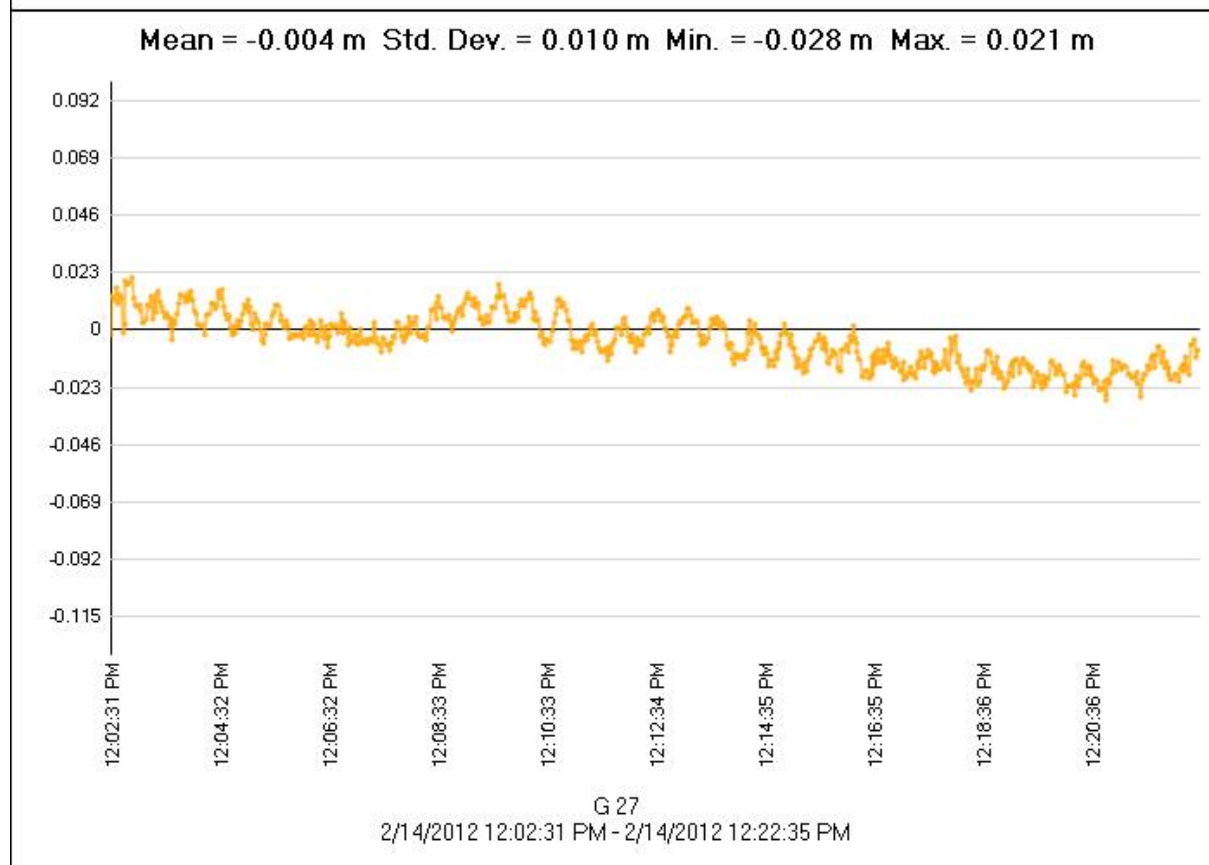
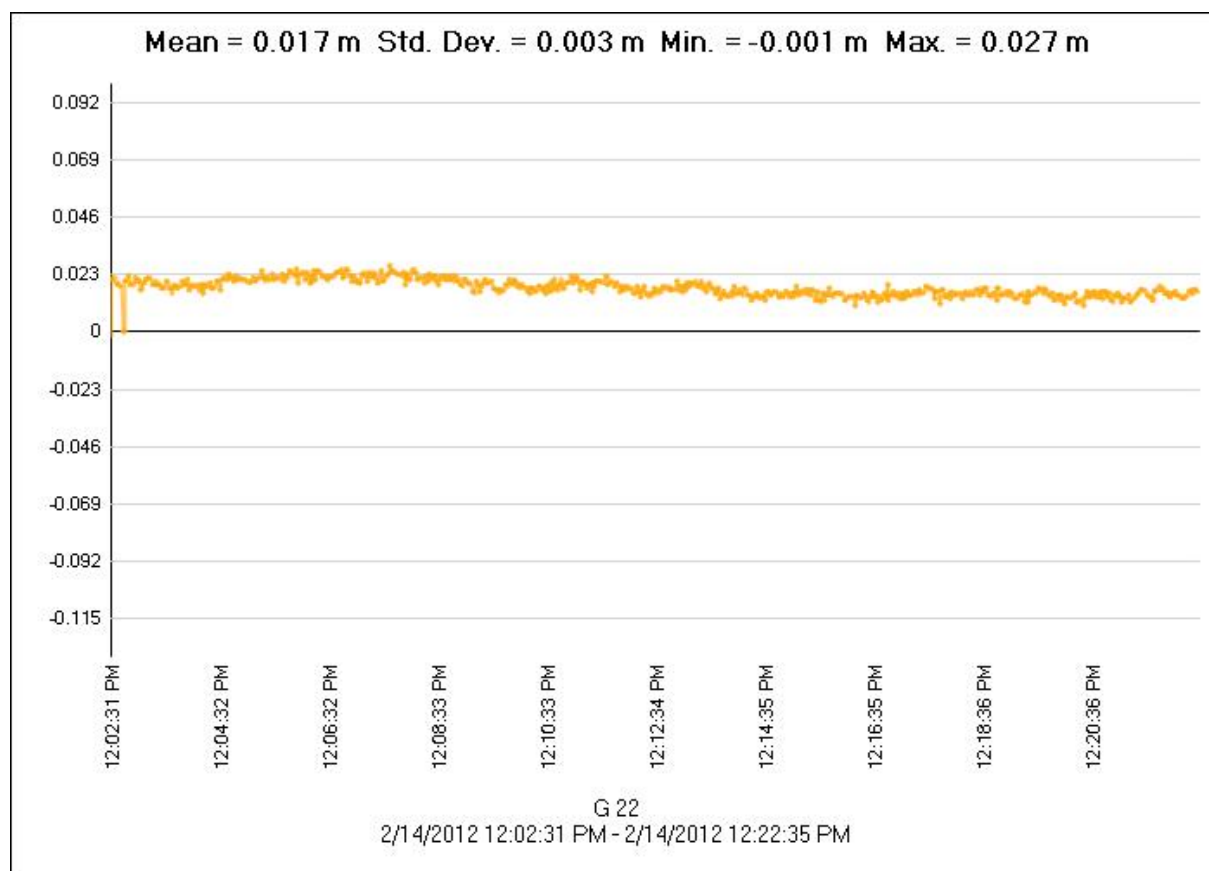


G 14

2/14/2012 12:02:31 PM - 2/14/2012 12:22:35 PM







Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA13-B2 (1:02:06 PM-1:21:24 PM) (S162)

Baseline observation: JH0456 --- SVA13-B2 (B162)

Processed: 3/21/2012 2:59:17 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.011 m

Vertical precision: 0.014 m

RMS: 0.004 m

Maximum PDOP: 1.917

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 1:02:06 PM (Local: UTC-7hr)

Processing stop time: 2/14/2012 1:21:24 PM (Local: UTC-7hr)

Processing duration: 00:19:18

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA13-B2				
Grid		Local		Global	
Easting	352652.432 m	Latitude	N38°15'50.81226"	Latitude	N38°15'50.81225"
Northing	4236461.155 m	Longitude	W100°41'03.37555"	Longitude	W100°41'03.37555"
Elevation	891.211 m	Height	866.083 m	Height	866.083 m

Vector					
9Ughb[	17389.128 m	NS Fwd Azimuth	143°11'17"	L	14768.329 m
Bcfh\jb[	-24253.682 m	Ellipsoid Dist.	29846.284 m	M	-17911.914 m
9`Yj Uhcb	-20.109 m	<Y][\h	-20.320 m	N	-18764.444 m

Standard Errors

Vector errors:					
Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point ID	0.004 m	Point Description	0.004 m	Point Type	0.007 m
Point ID	0.007 m	Point Description	0.007 m	Point Type	0.005 m


Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000081140		
Y	0.0000020008	0.0000471206	
Z	-0.0000020069	-0.0000134749	0.0000215529

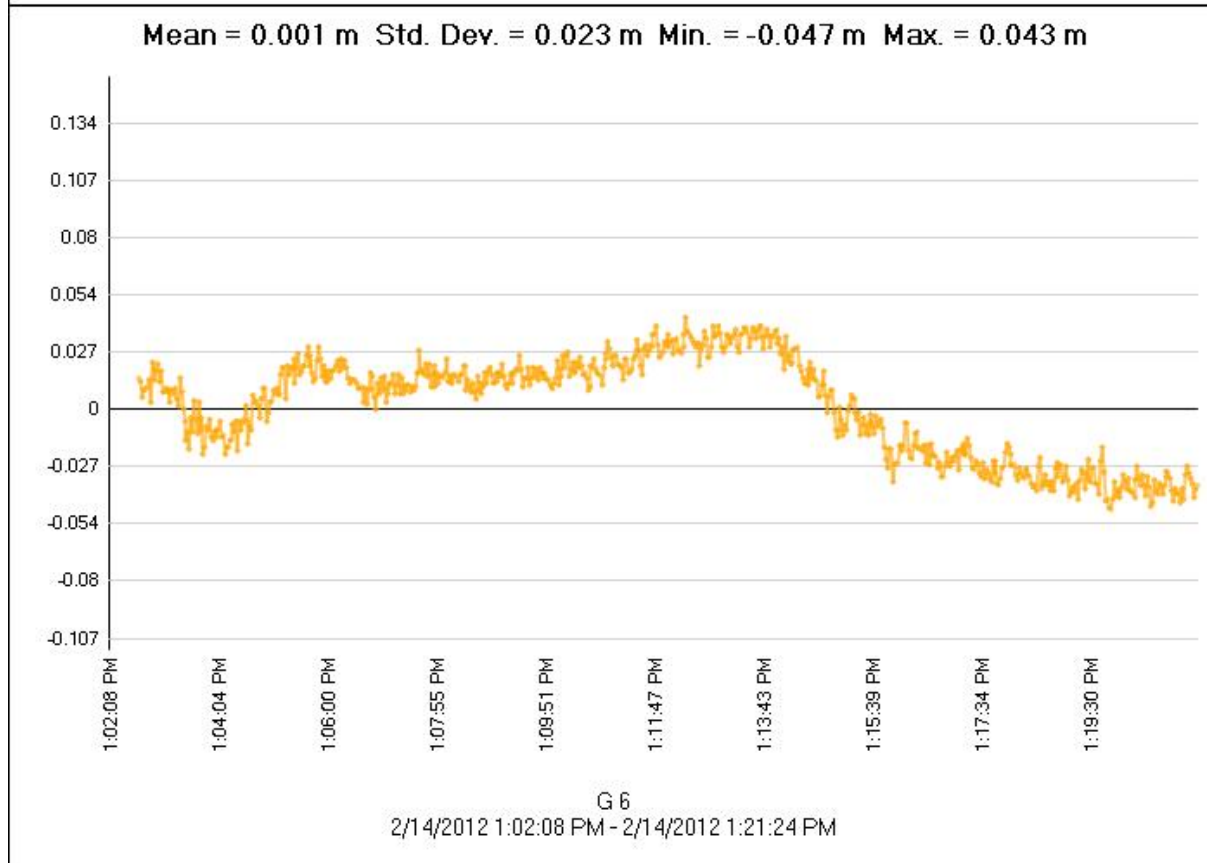
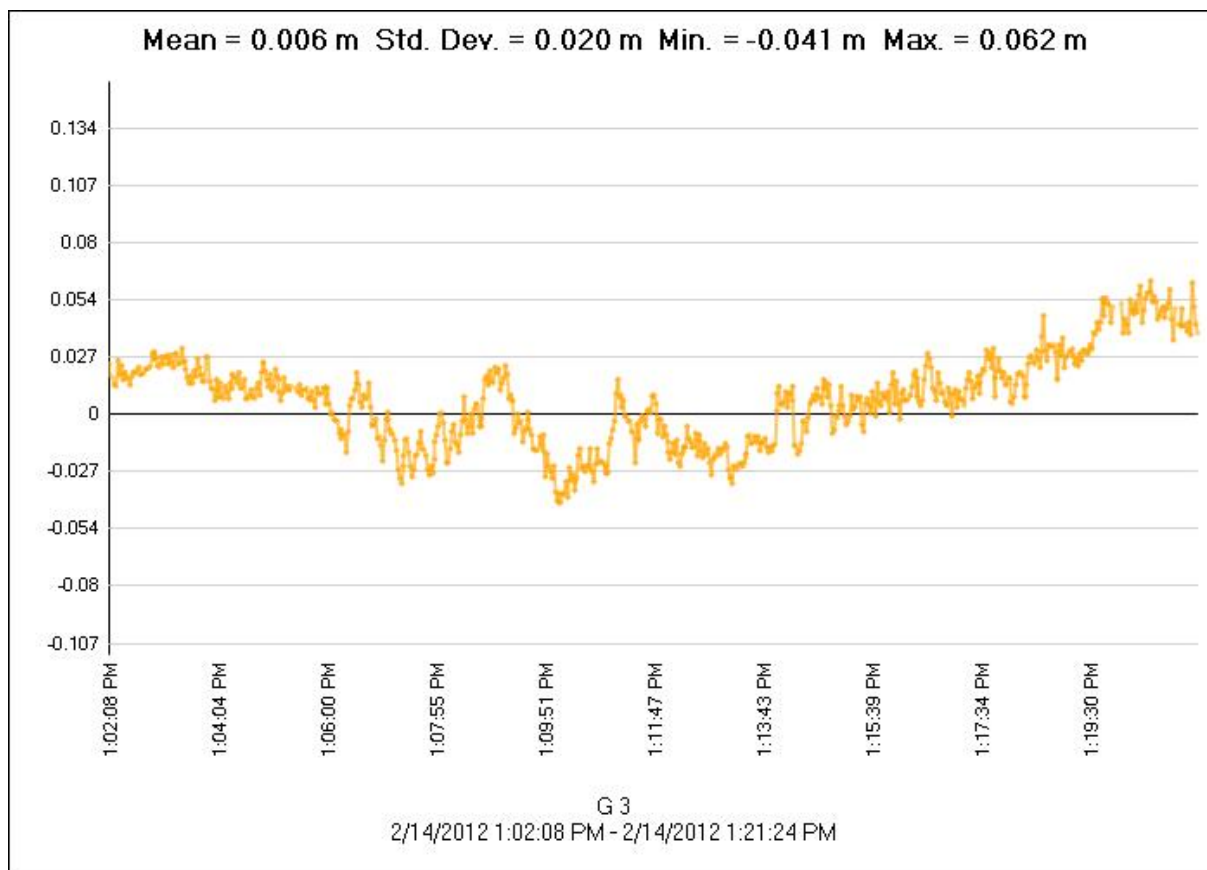
Occupations

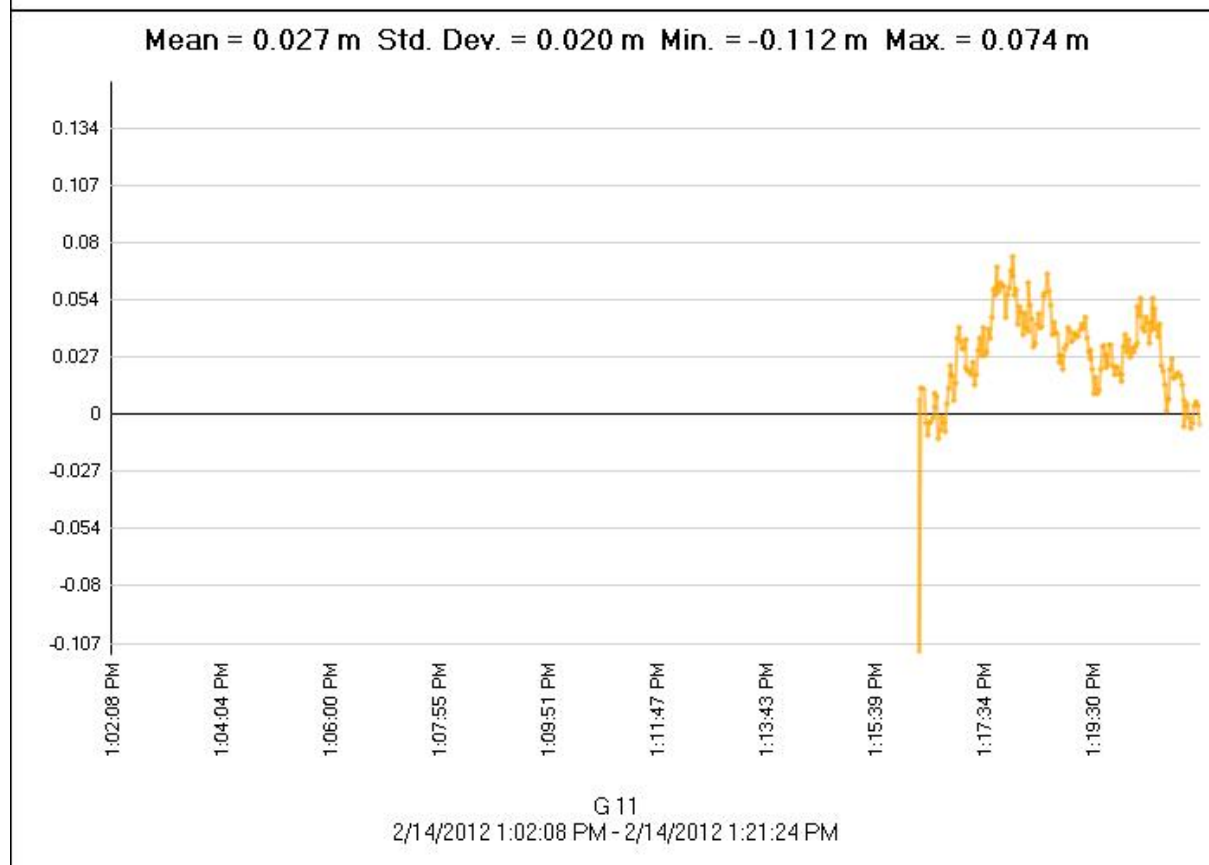
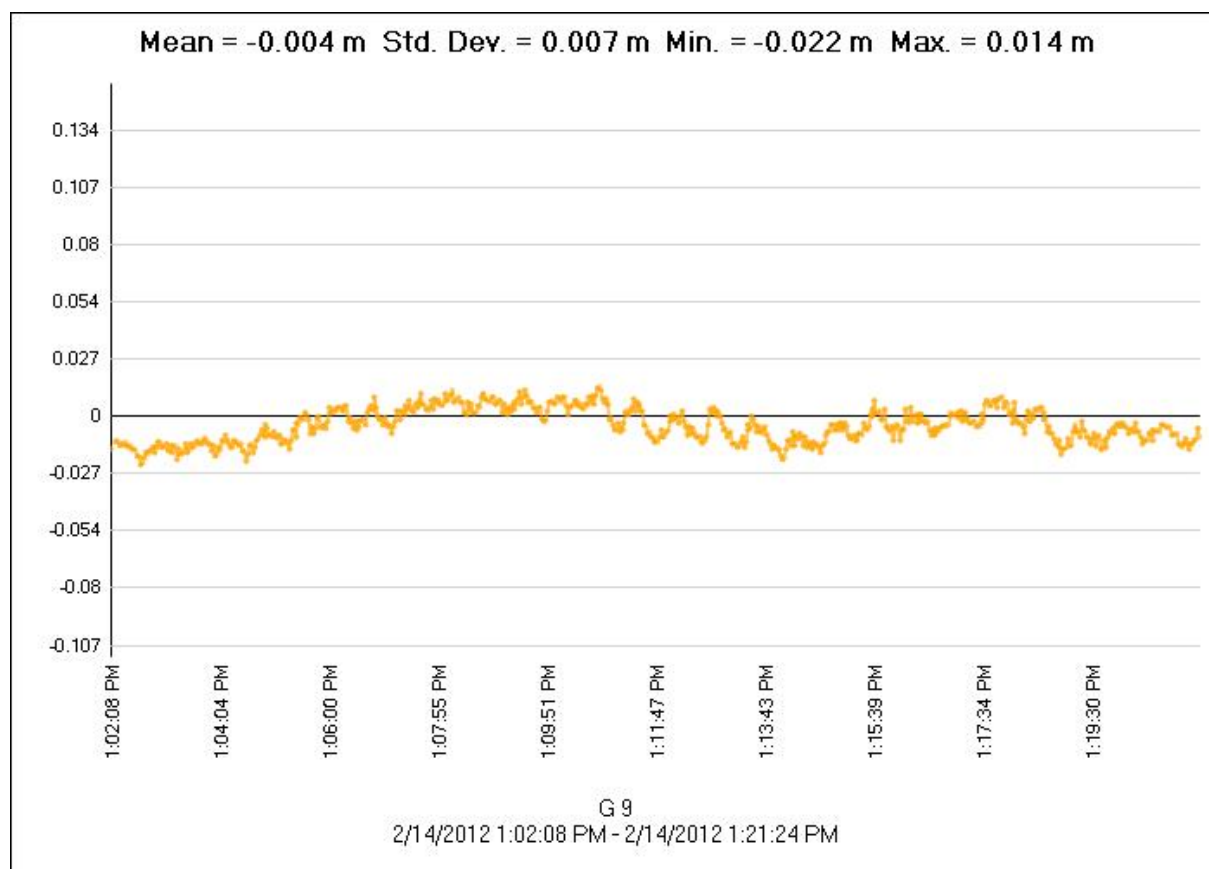
	From	To
Point ID:	JH0456	SVA13-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040453.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

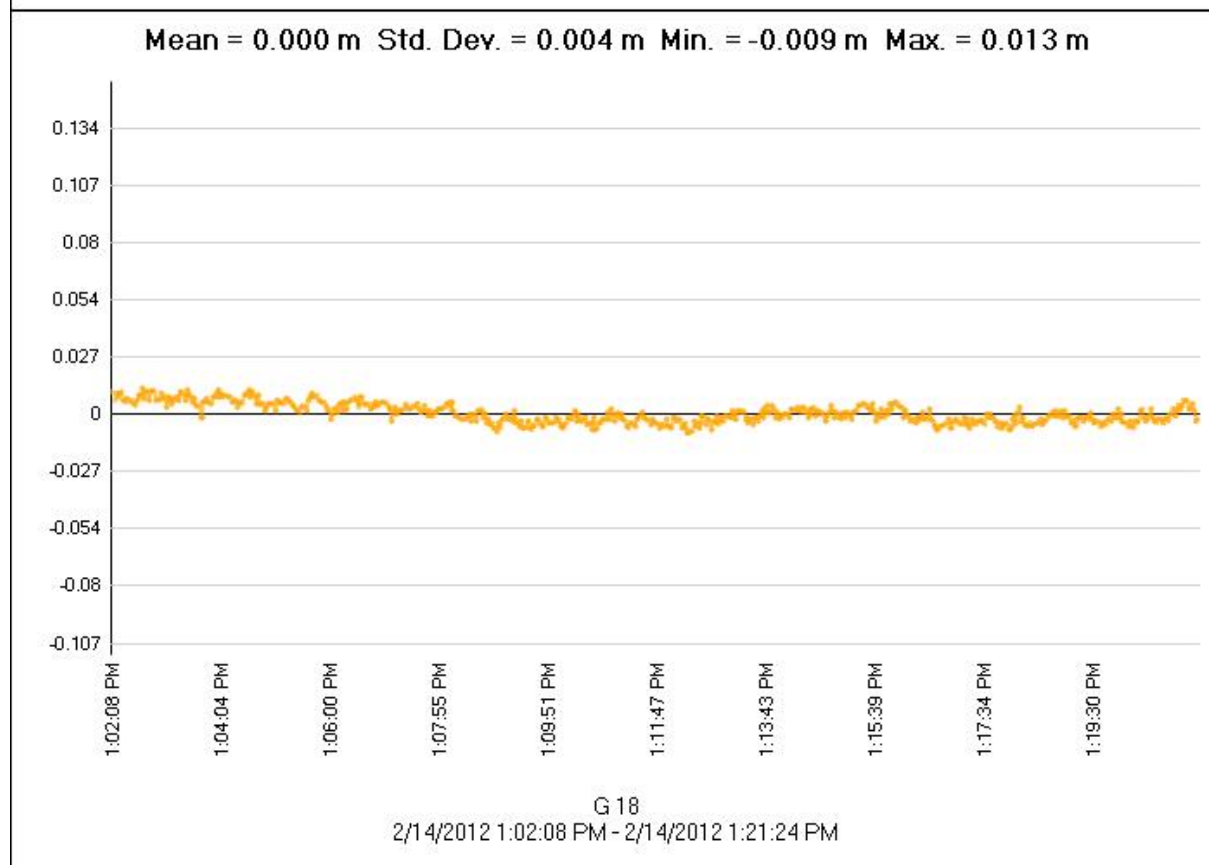
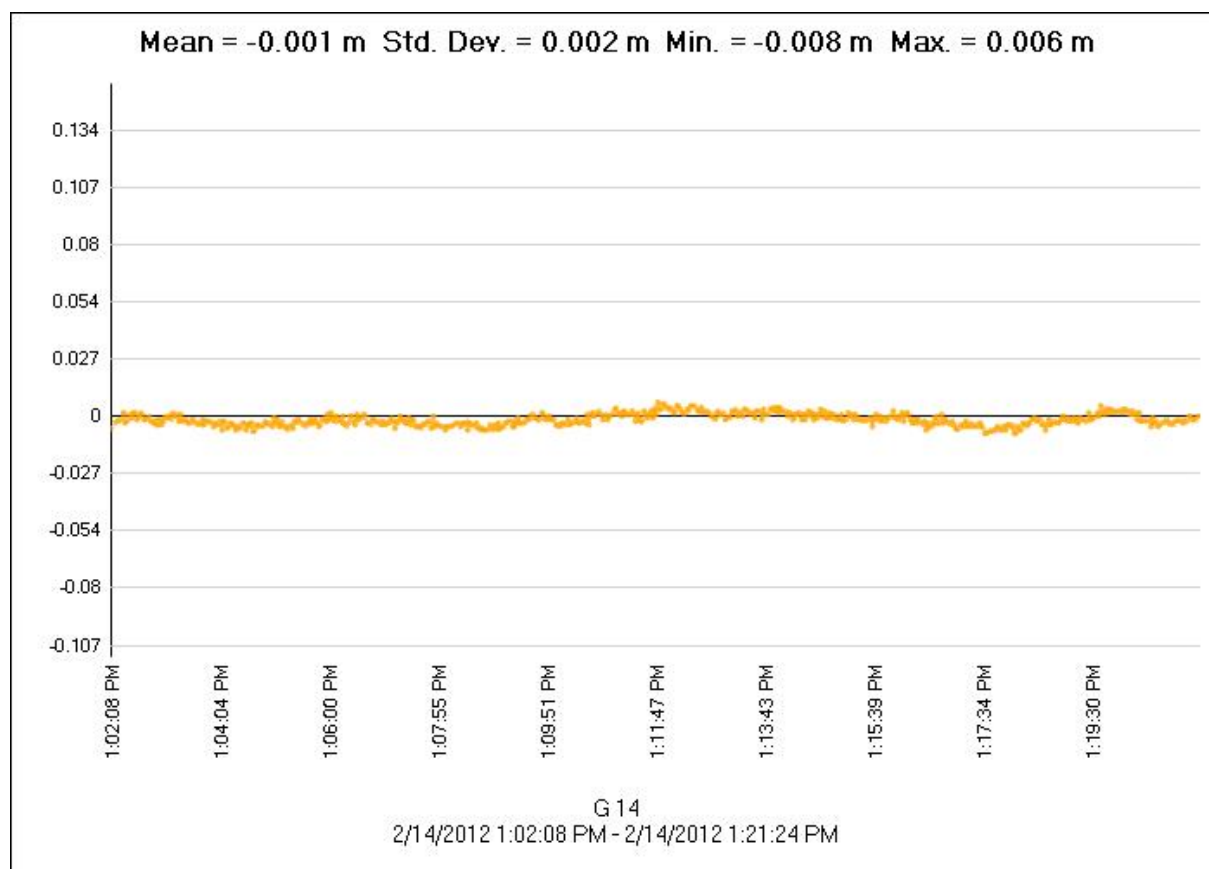
Tracking Summary

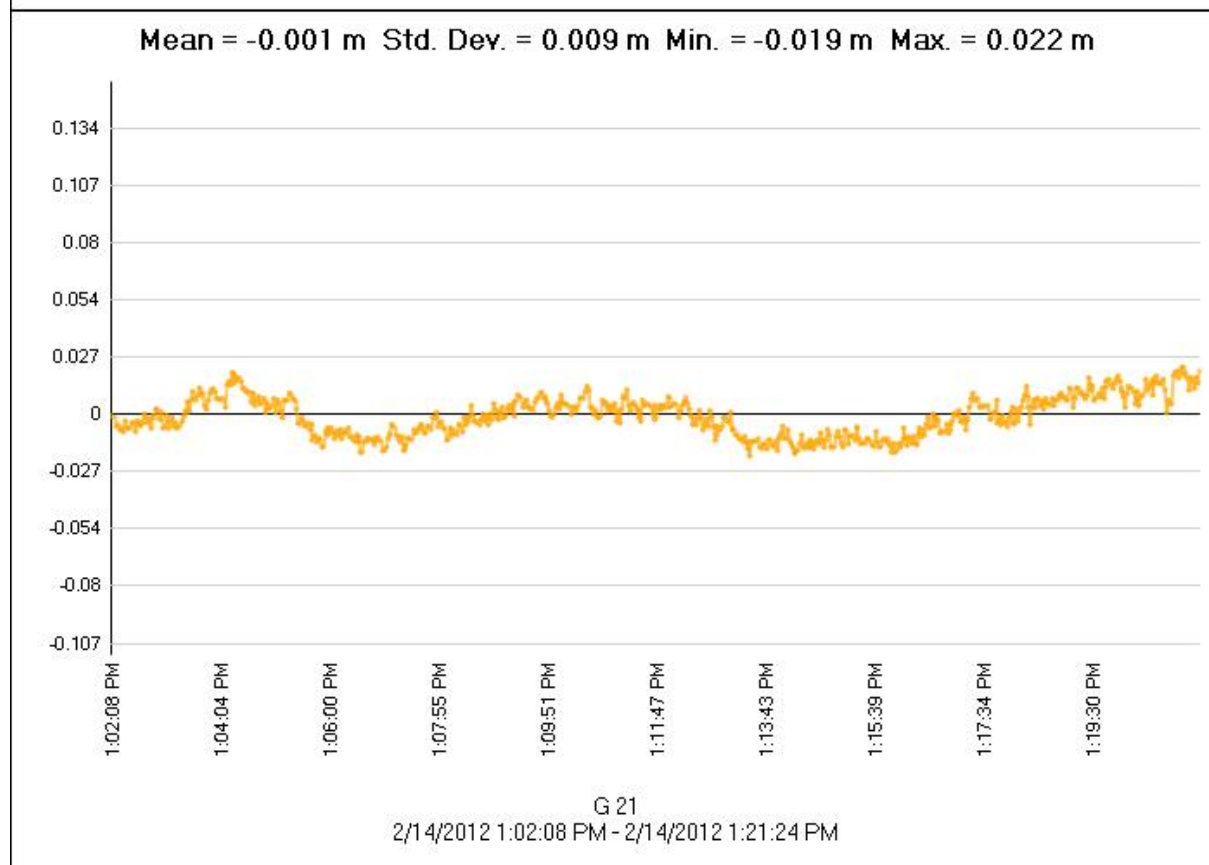
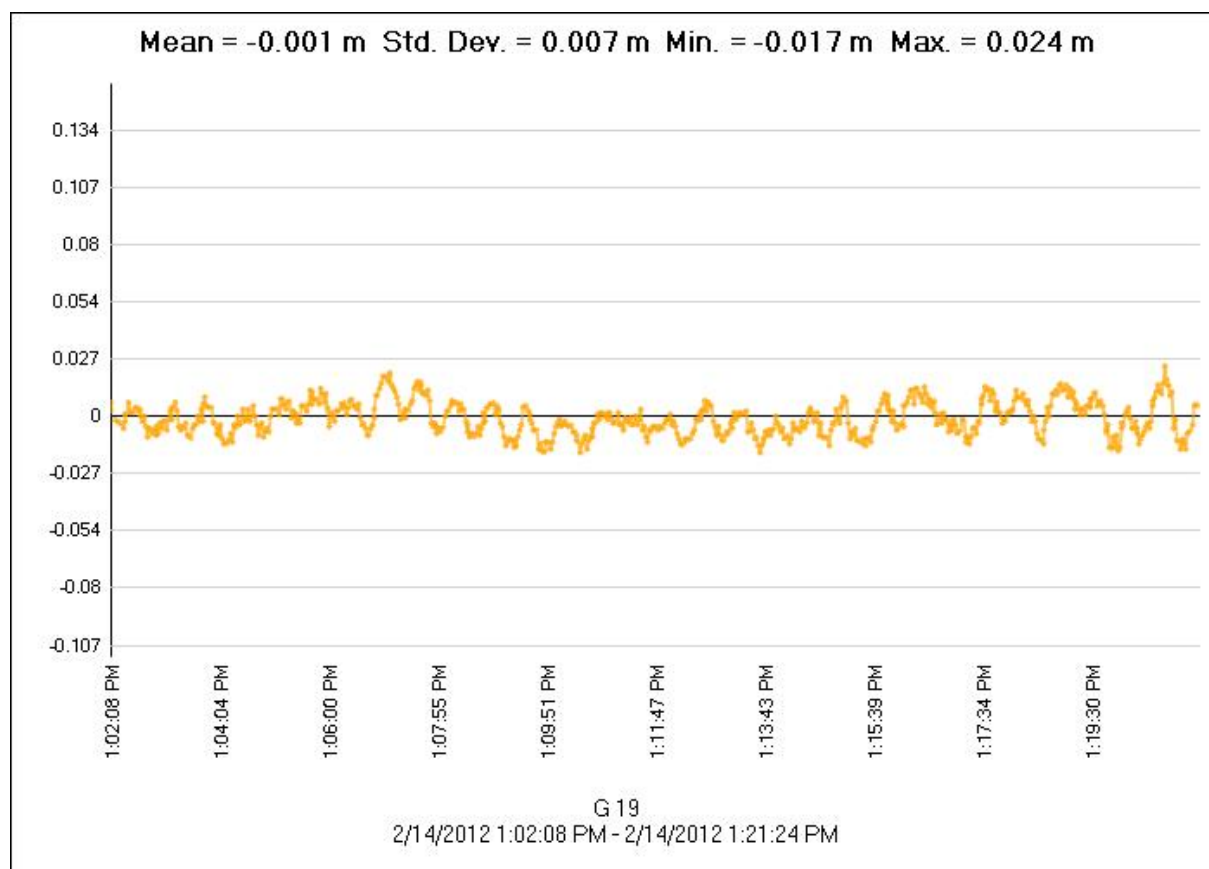
SV	2/14/2012 1:02:06 PM	Duration: 00:19:18	Major interval: 00:01:00	2/14/2012 1:21:24 PM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 11	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			
G 31	L1 L2			

Residuals









Mean = 0.001 m Std. Dev. = 0.002 m Min. = -0.005 m Max. = 0.009 m

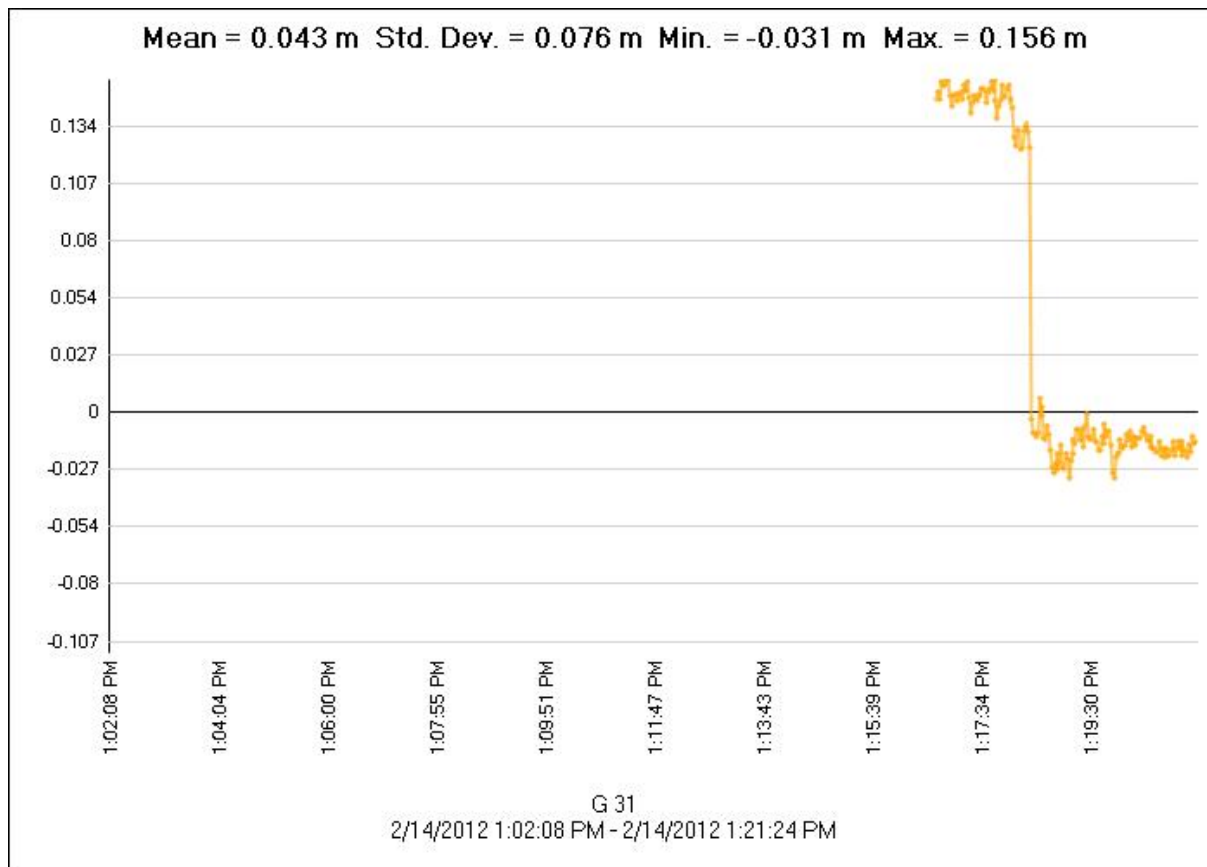


G 22
2/14/2012 1:02:08 PM - 2/14/2012 1:21:24 PM

Mean = 0.006 m Std. Dev. = 0.028 m Min. = -0.076 m Max. = 0.062 m



G 27
2/14/2012 1:02:08 PM - 2/14/2012 1:21:24 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA10-B2 (1:49:28 PM-2:11:39 PM) (S164)

Baseline observation: JH0456 --- SVA10-B2 (B164)

Processed: 3/21/2012 2:59:36 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.012 m

Vertical precision: 0.013 m

RMS: 0.002 m

Maximum PDOP: 1.870

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 1:49:28 PM (Local: UTC-7hr)

Processing stop time: 2/14/2012 2:11:39 PM (Local: UTC-7hr)

Processing duration: 00:22:11

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA10-B2				
Grid		Local		Global	
Easting	344297.358 m	Latitude	N38°15'53.49221"	Latitude	N38°15'53.49221"
Northing	4236700.256 m	Longitude	W100°46'47.22825"	Longitude	W100°46'47.22825"
Elevation	885.197 m	Height	860.127 m	Height	860.127 m

Vector					
9Ughb[	9034.054 m	NS Fwd Azimuth	158°12'41"	L	6564.765 m
BcfA\jb[	-24014.581 m	Ellipsoid Dist.	25659.784 m	M	-16300.232 m
9`Yj U\jcb	-26.123 m	<Y][\h	-26.276 m	N	-18703.244 m

Standard Errors

Vector errors:					
Ughb[	0.004 m	BG`Zk X'5n]a i h	0°00'00"	L	0.004 m
Bcfh\]b[	0.005 m	'9~]dgc]X'8]gh	0.004 m	M	0.006 m
'9`Yj Uhcb	0.007 m	' <Y][\h	0.007 m	N	0.005 m

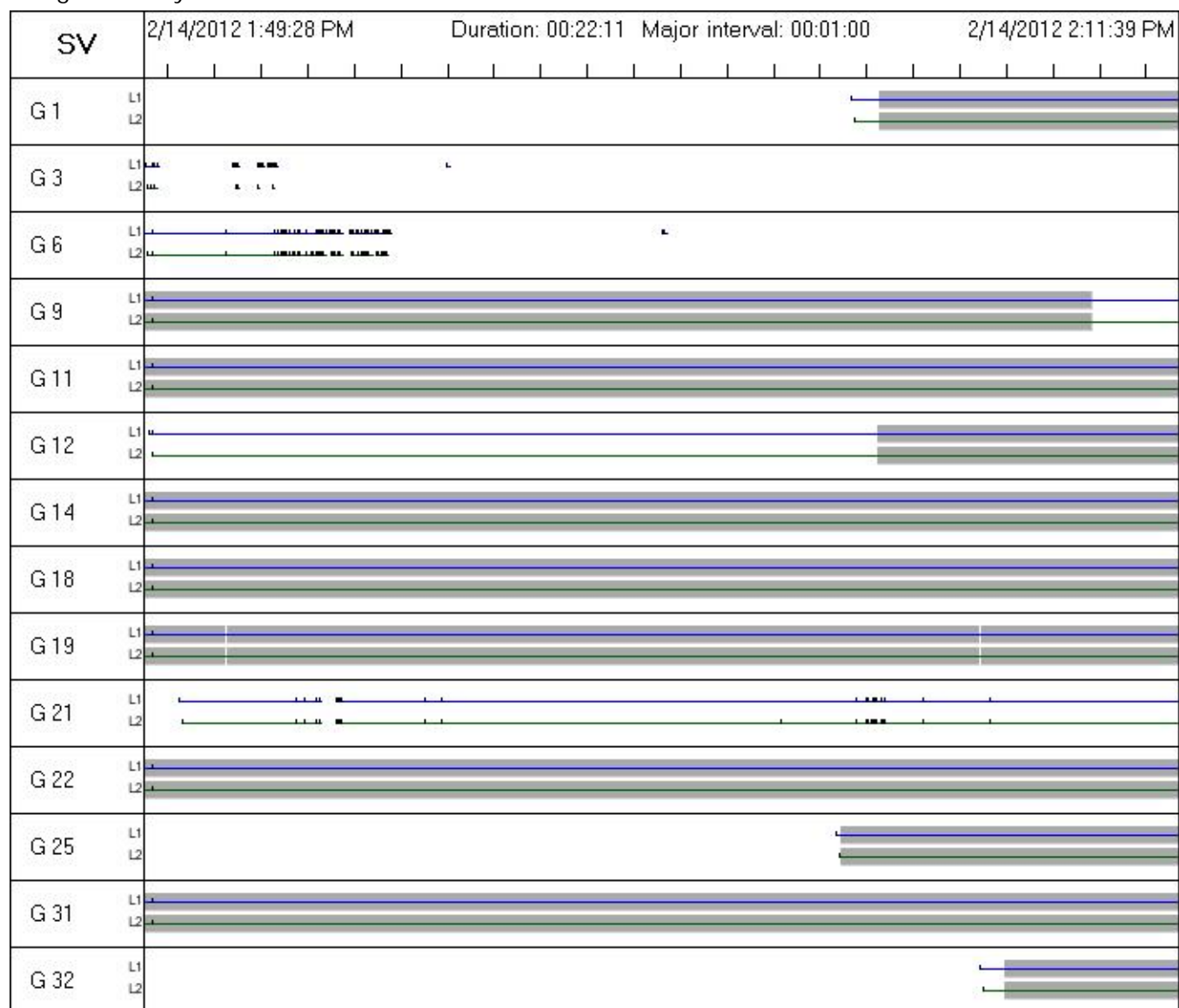
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000159406		
Y	0.0000073670	0.0000406027	
Z	0.0000009844	-0.0000096761	0.0000218750

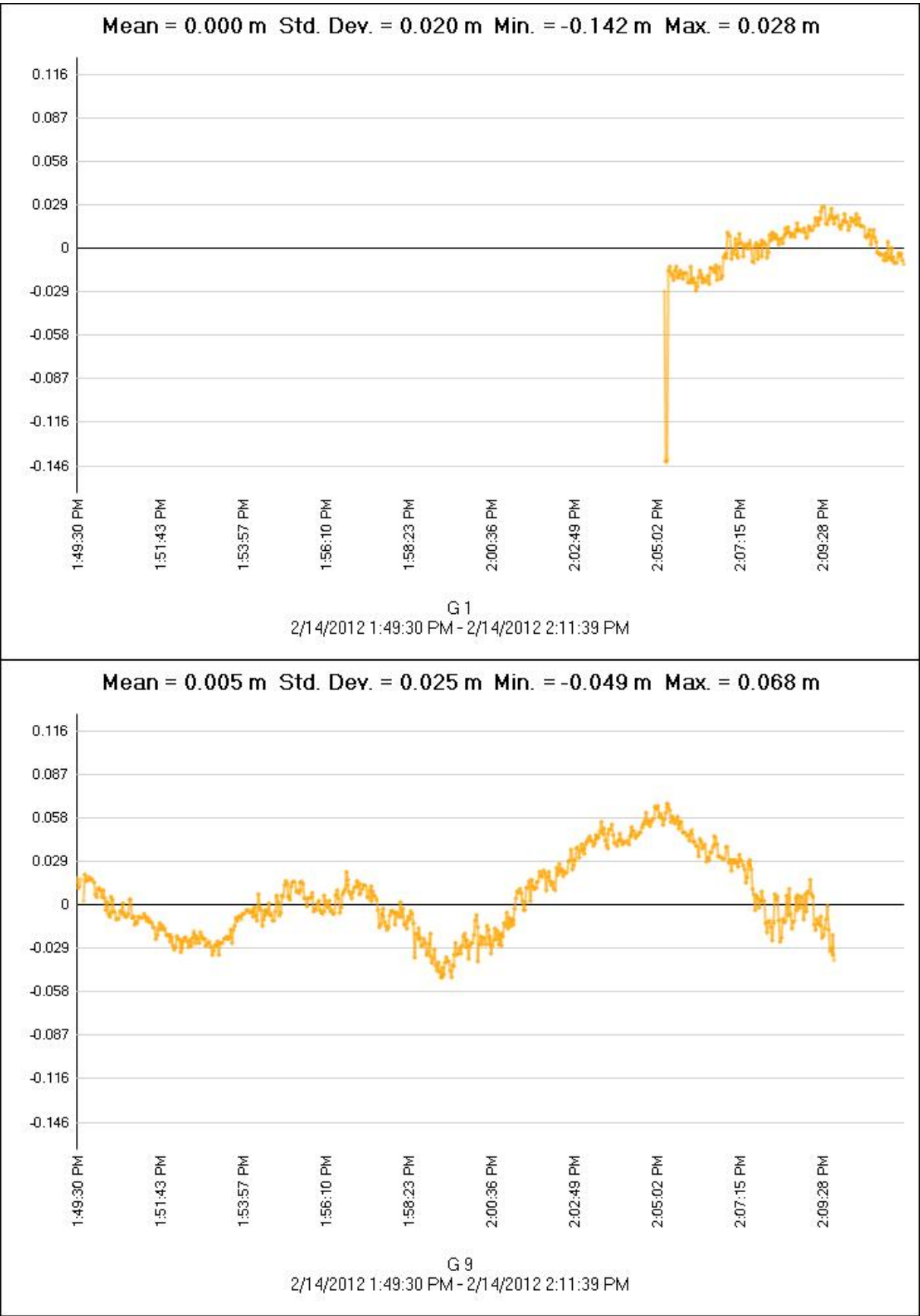
Occupations

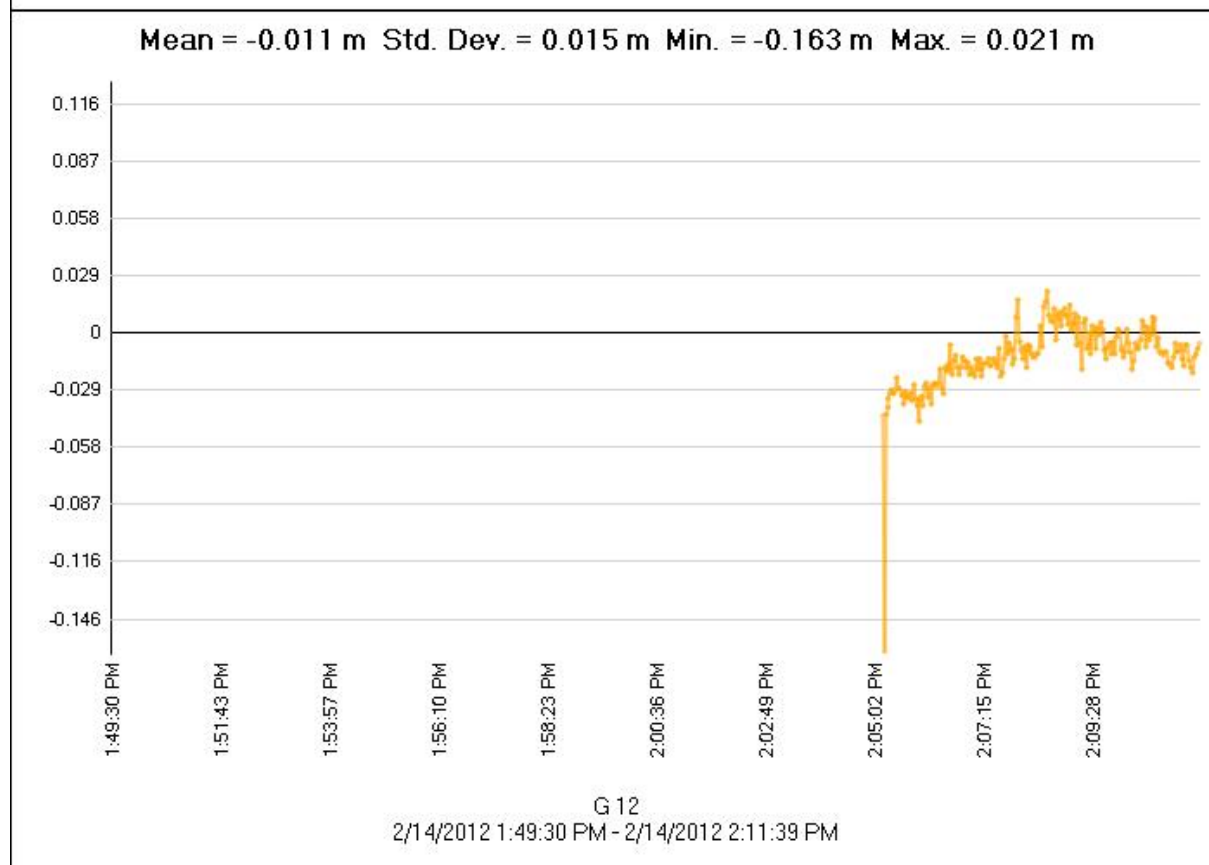
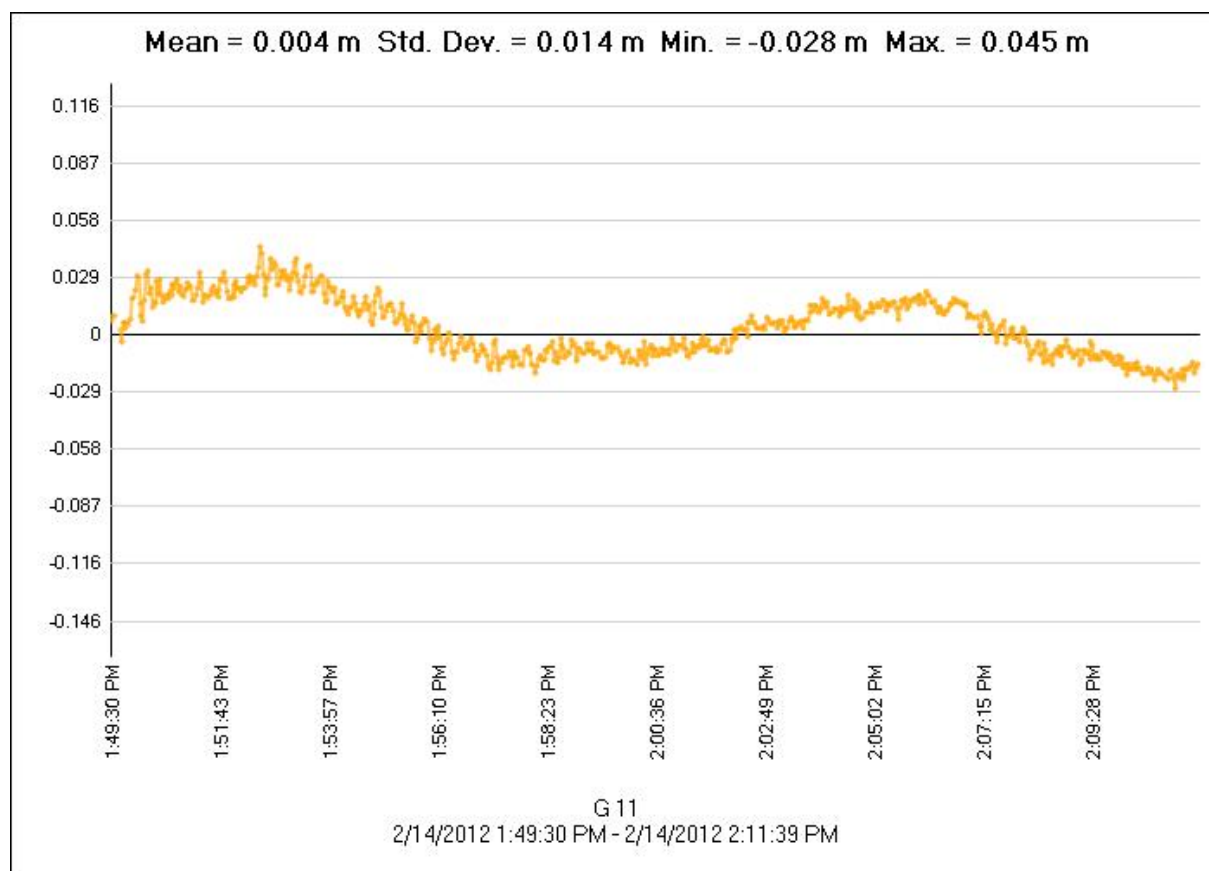
	From	To
Point ID:	JH0456	SVA10-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00040454.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

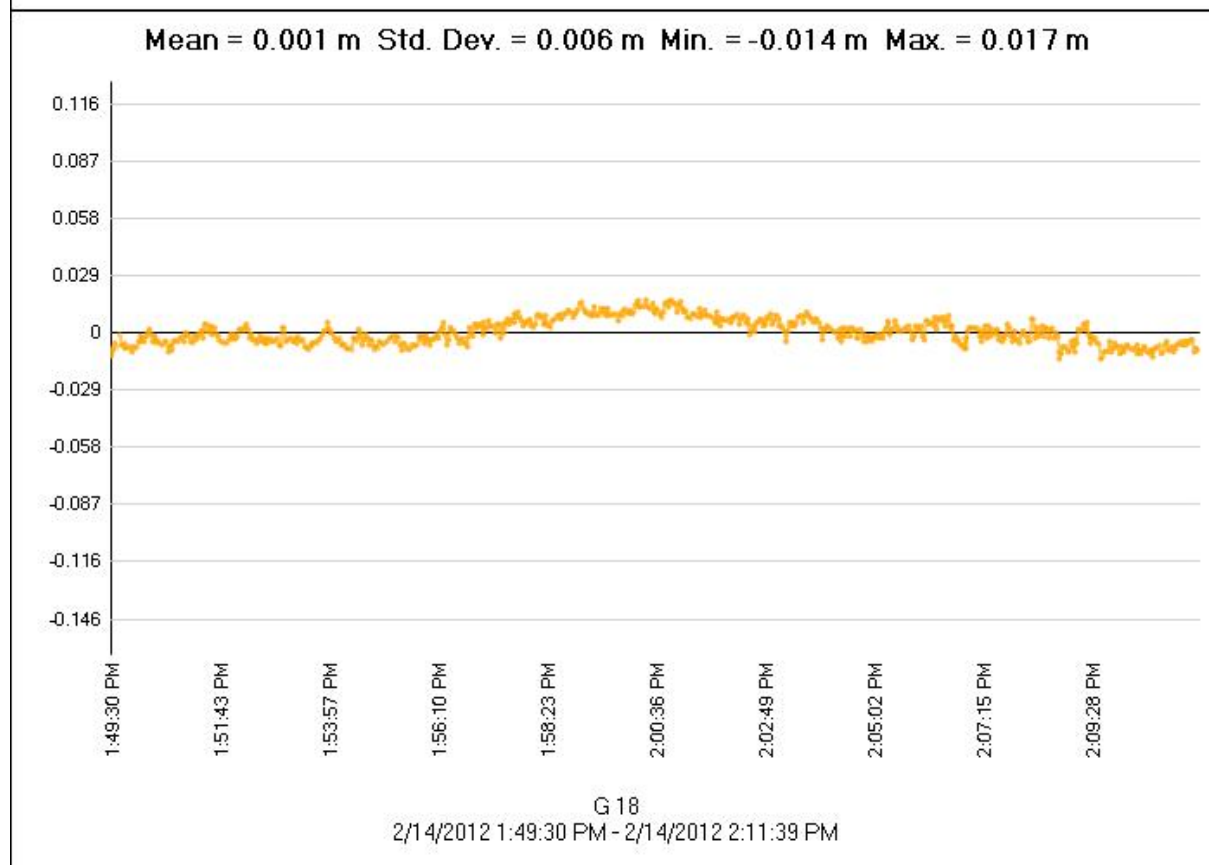
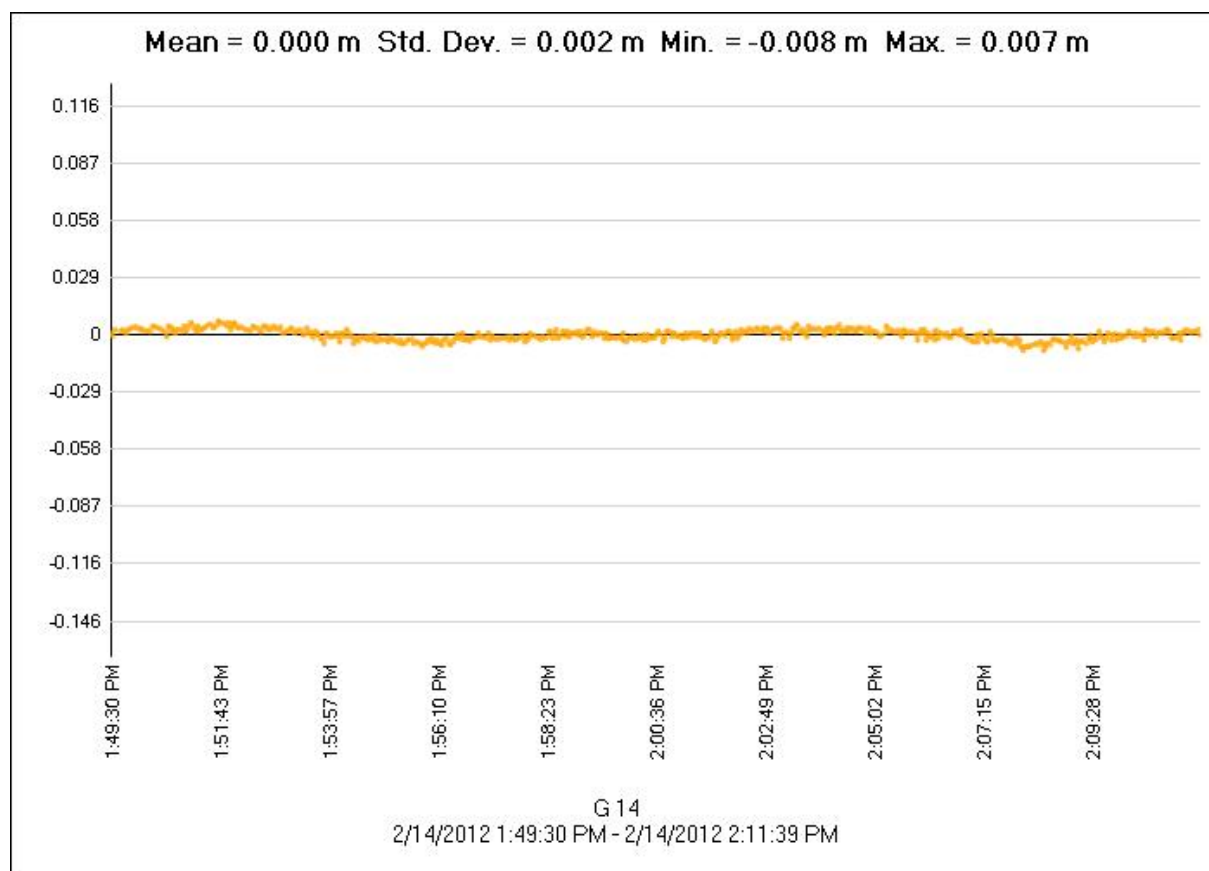
Tracking Summary

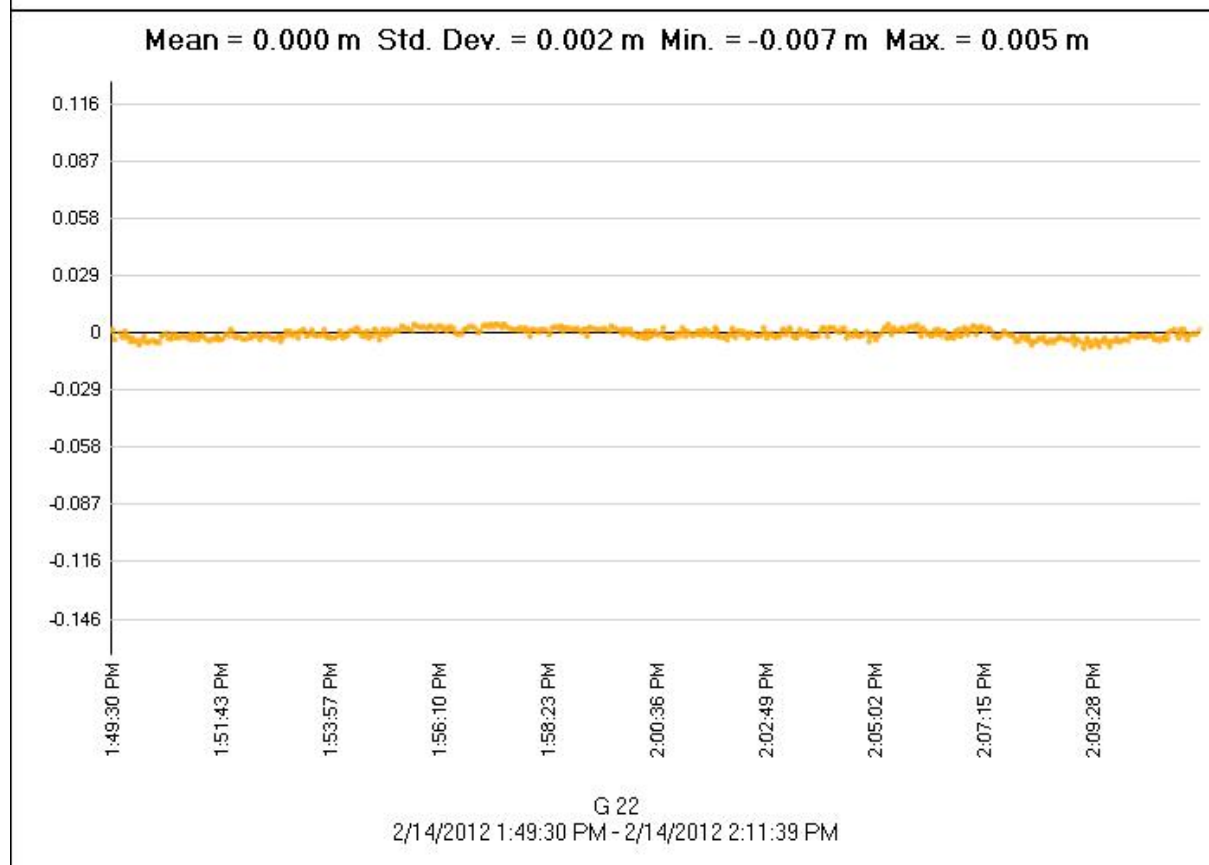
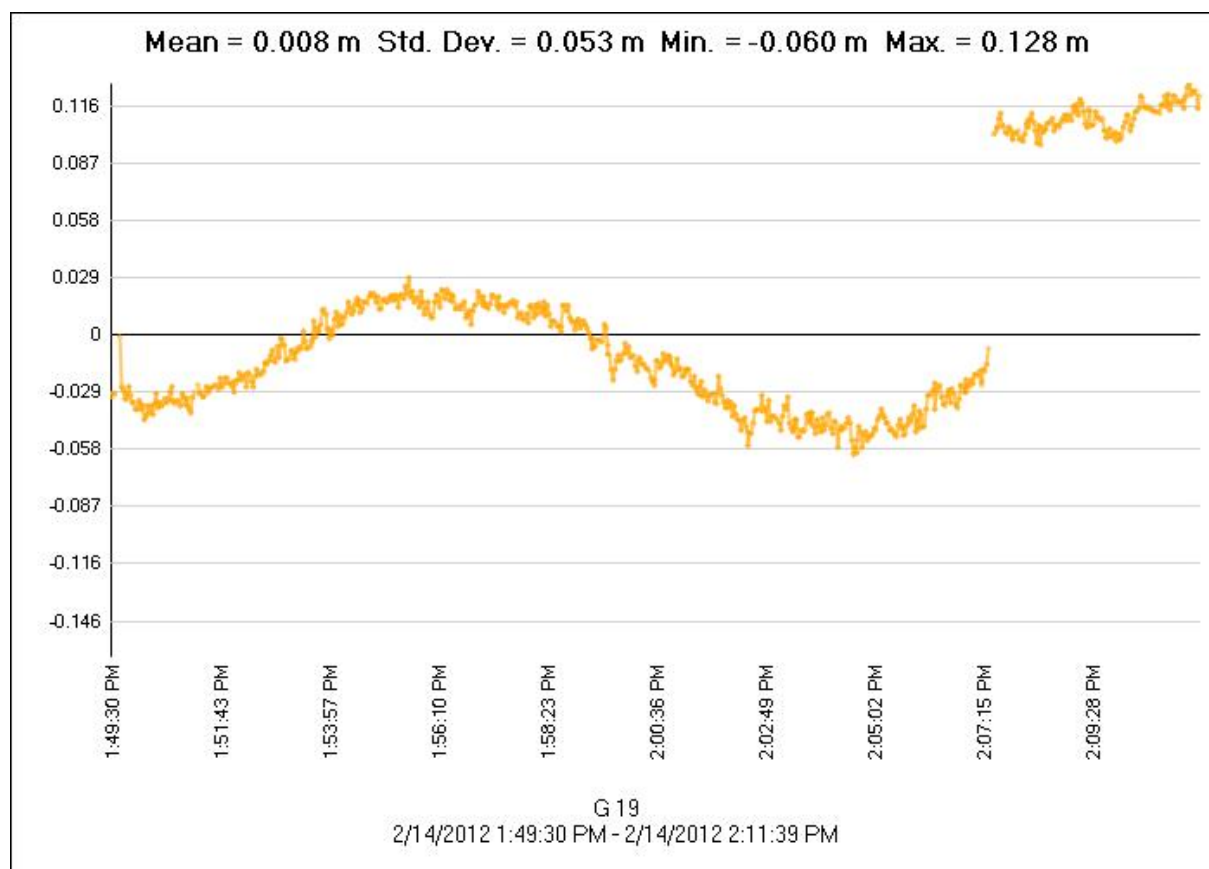


Residuals









Mean = 0.020 m Std. Dev. = 0.008 m Min. = -0.002 m Max. = 0.048 m



G 25

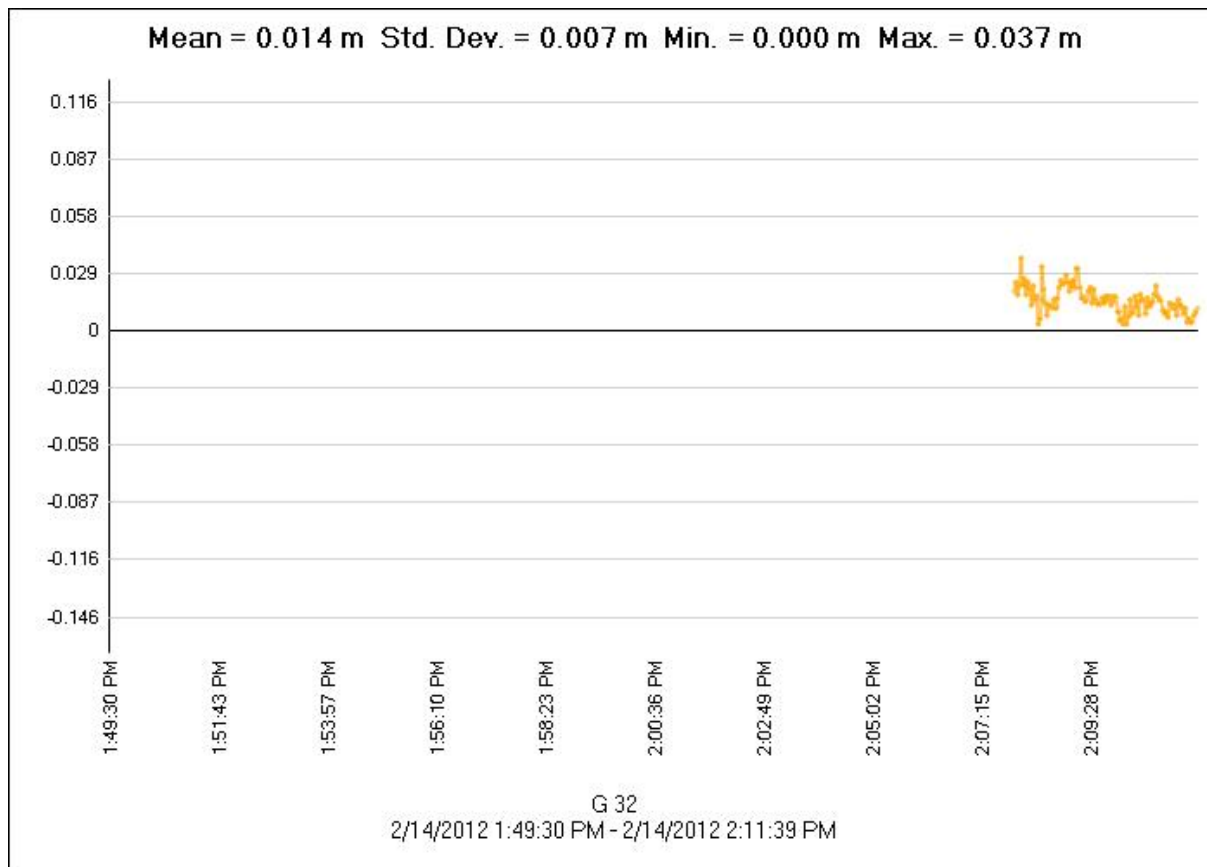
2/14/2012 1:49:30 PM - 2/14/2012 2:11:39 PM

Mean = -0.004 m Std. Dev. = 0.007 m Min. = -0.021 m Max. = 0.017 m



G 31

2/14/2012 1:49:30 PM - 2/14/2012 2:11:39 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA49-B2 (4:15:11 PM-4:34:43 PM) (S166)

Baseline observation: JH0456 --- SVA49-B2 (B166)

Processed: 3/21/2012 2:59:34 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.012 m

Vertical precision: 0.017 m

RMS: 0.002 m

Maximum PDOP: 1.883

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 4:15:11 PM (Local: UTC-7hr)

Processing stop time: 2/14/2012 4:34:43 PM (Local: UTC-7hr)

Processing duration: 00:19:32

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA49-B2				
Grid		Local		Global	
Easting	311698.247 m	Latitude	N38°41'20.25221"	Latitude	N38°41'20.25220"
Northing	4284485.410 m	Longitude	W101°09'54.11146"	Longitude	W101°09'54.11146"
Elevation	979.455 m	Height	955.004 m	Height	955.004 m

Vector					
9Ughb[	-23565.057 m	NS Fwd Azimuth	314°04'14"	L	-20879.971 m
Bcfh\jb[	23770.573 m	Ellipsoid Dist.	33472.186 m	M	18786.131 m
9`Yj Uhcb	68.135 m	<Y][\h	68.601 m	N	18215.959 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point ID	0°00'00"	Point ID	0.005 m
Point ID	0.005 m	Point ID	0.005 m	Point ID	0.007 m
Point ID	0.009 m	Point ID	0.009 m	Point ID	0.007 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000225692		
Y	0.0000180723	0.0000464268	
Z	-0.0000195071	-0.0000232864	0.0000458149

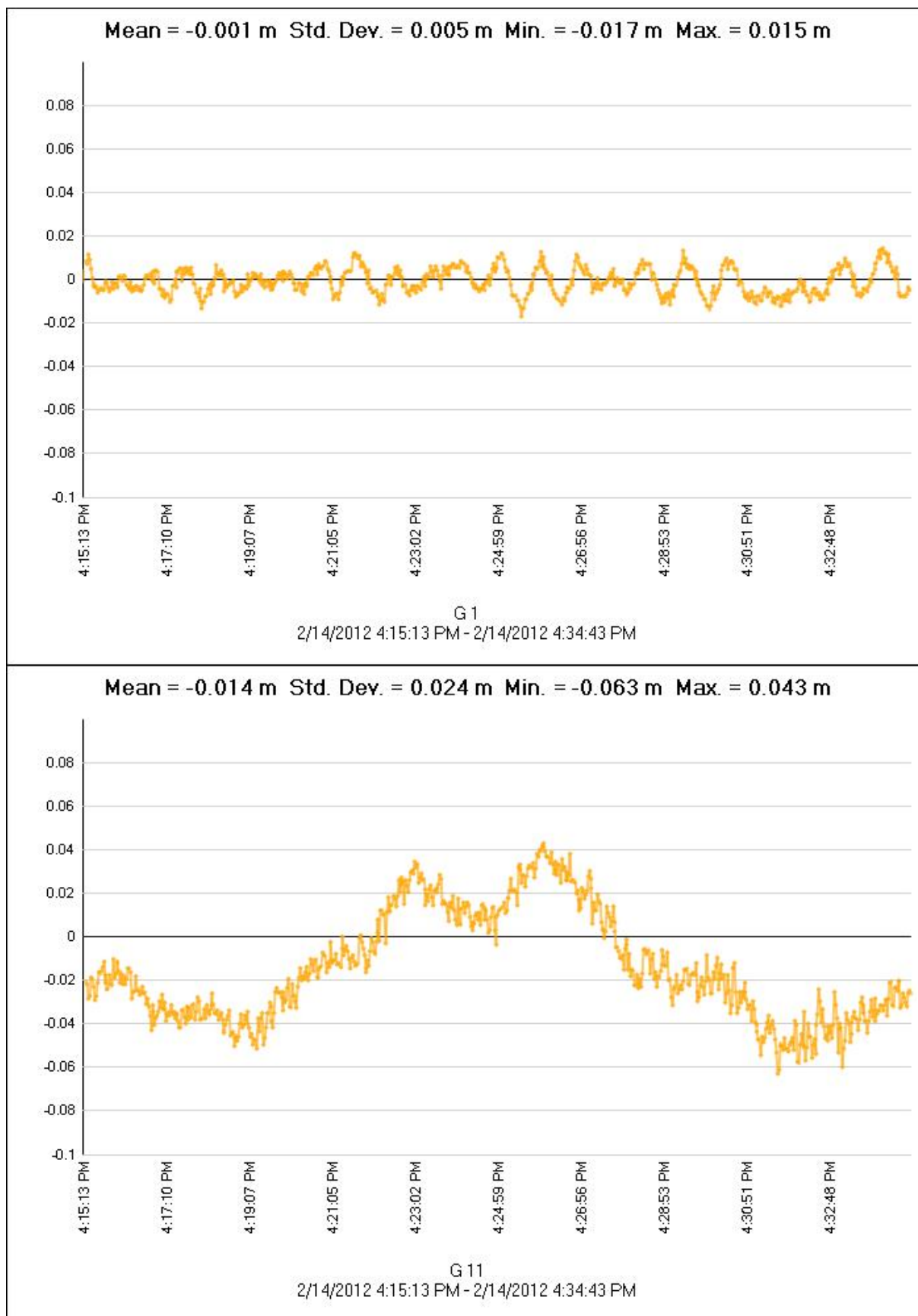
Occupations

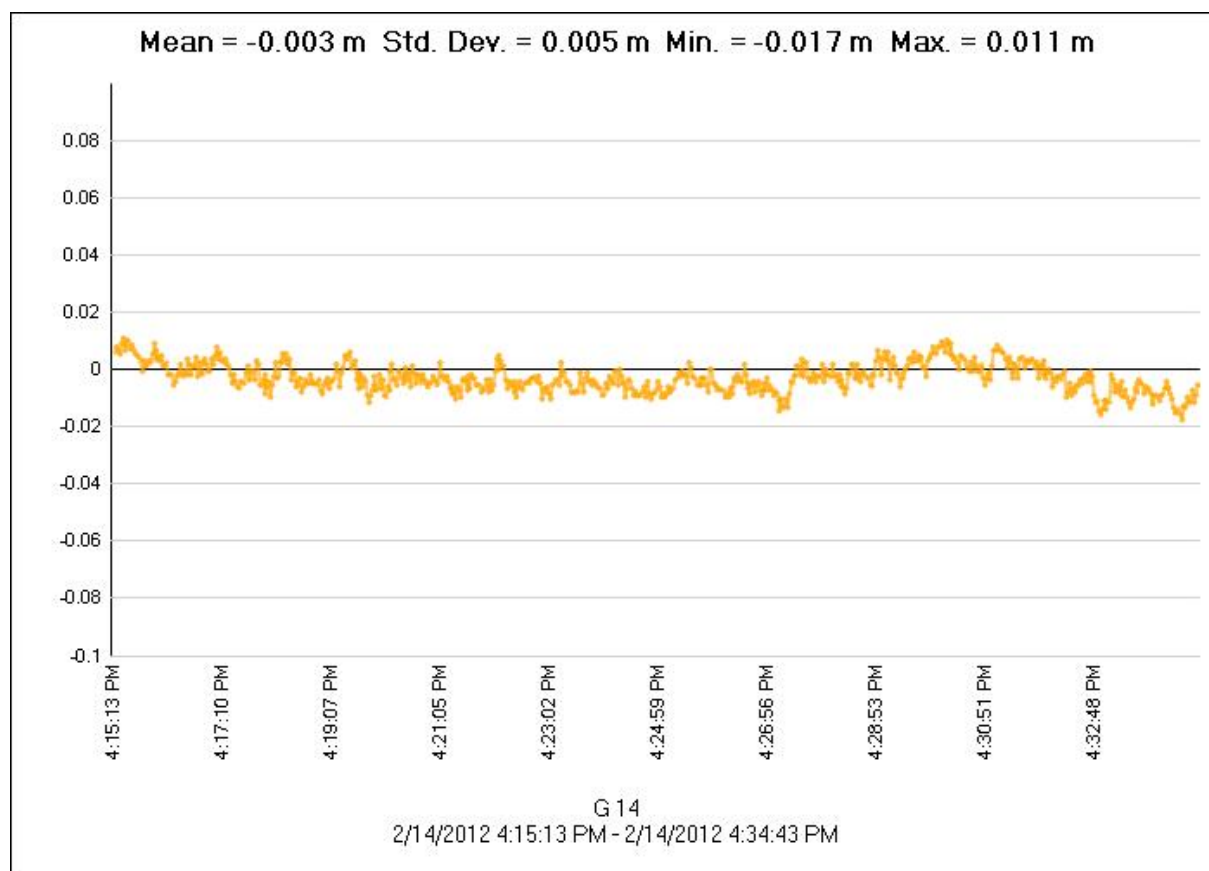
	From	To
Point ID:	JH0456	SVA49-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040455.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

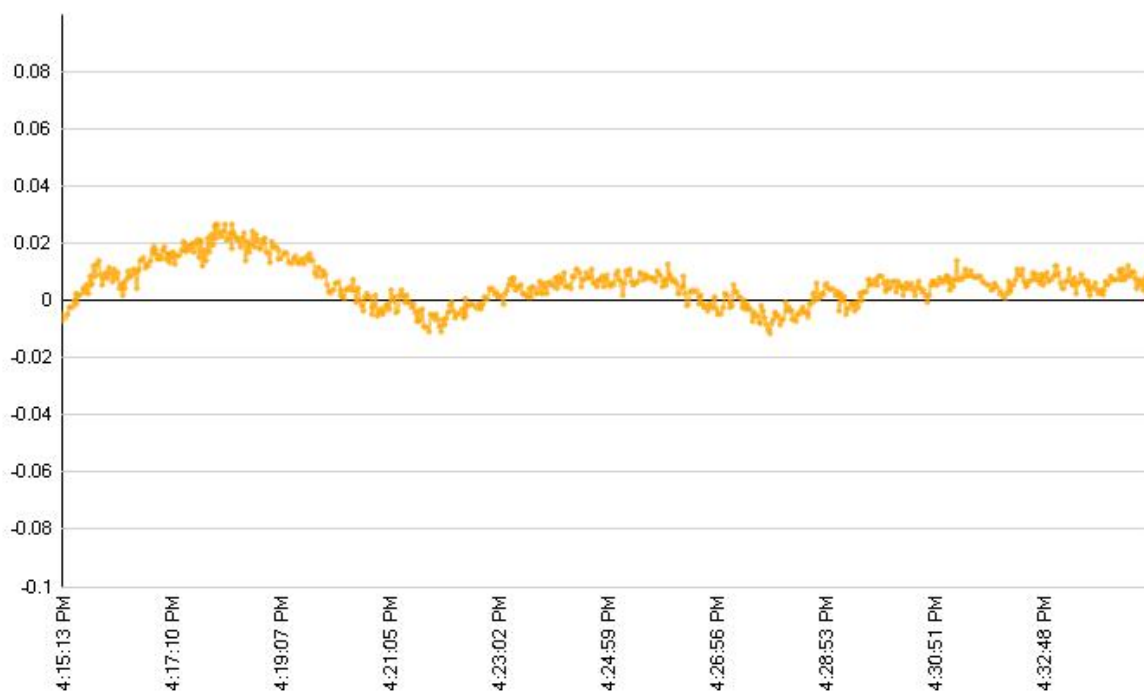
SV	2/14/2012 4:15:11 PM	Duration: 00:19:32 Major interval: 00:01:00	2/14/2012 4:34:43 PM
G 1			
G 11			
G 14			
G 16			
G 20			
G 22			
G 23			
G 25			
G 30			
G 31			
G 32			

Residuals





Mean = 0.005 m Std. Dev. = 0.007 m Min. = -0.012 m Max. = 0.027 m



G 20
2/14/2012 4:15:13 PM - 2/14/2012 4:34:43 PM

Mean = 0.003 m Std. Dev. = 0.016 m Min. = -0.036 m Max. = 0.036 m



G 22
2/14/2012 4:15:13 PM - 2/14/2012 4:34:43 PM

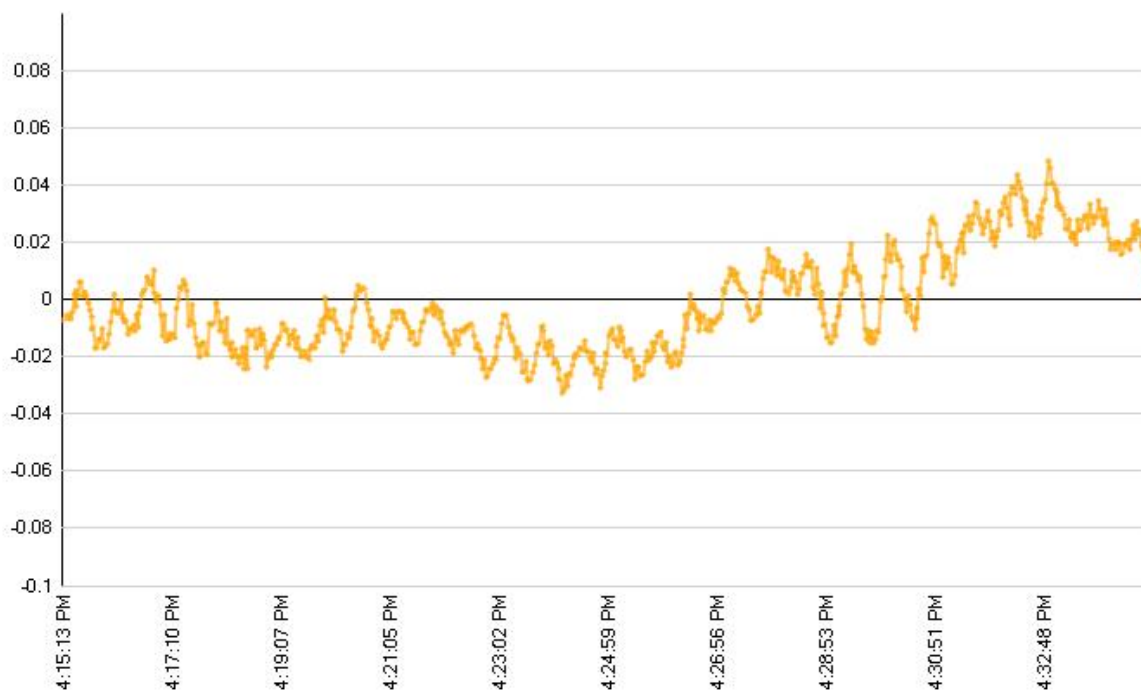
Mean = 0.004 m Std. Dev. = 0.014 m Min. = -0.026 m Max. = 0.038 m



G 23

2/14/2012 4:15:13 PM - 2/14/2012 4:34:43 PM

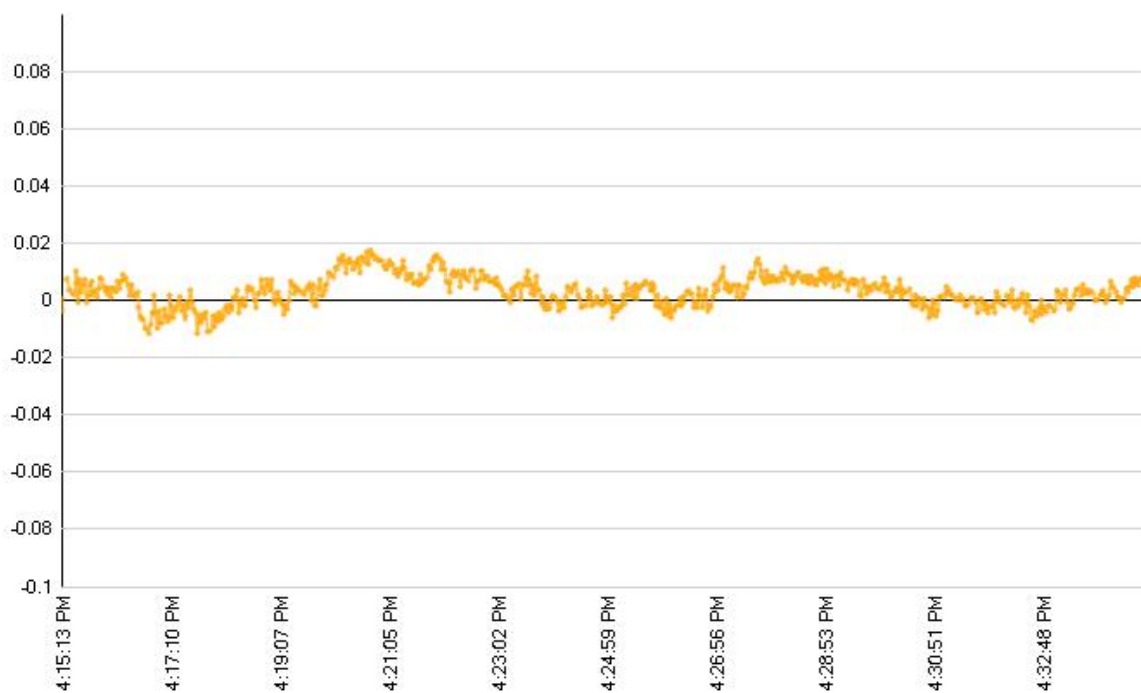
Mean = -0.001 m Std. Dev. = 0.016 m Min. = -0.033 m Max. = 0.048 m



G 25

2/14/2012 4:15:13 PM - 2/14/2012 4:34:43 PM

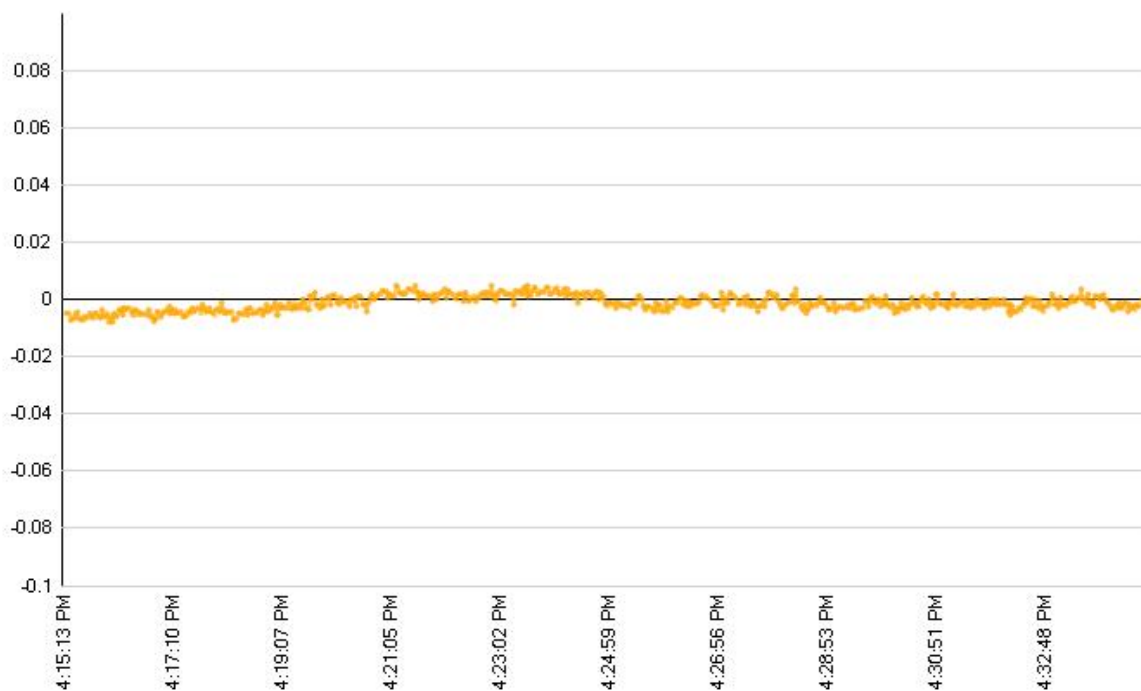
Mean = 0.003 m Std. Dev. = 0.005 m Min. = -0.012 m Max. = 0.018 m



G 30

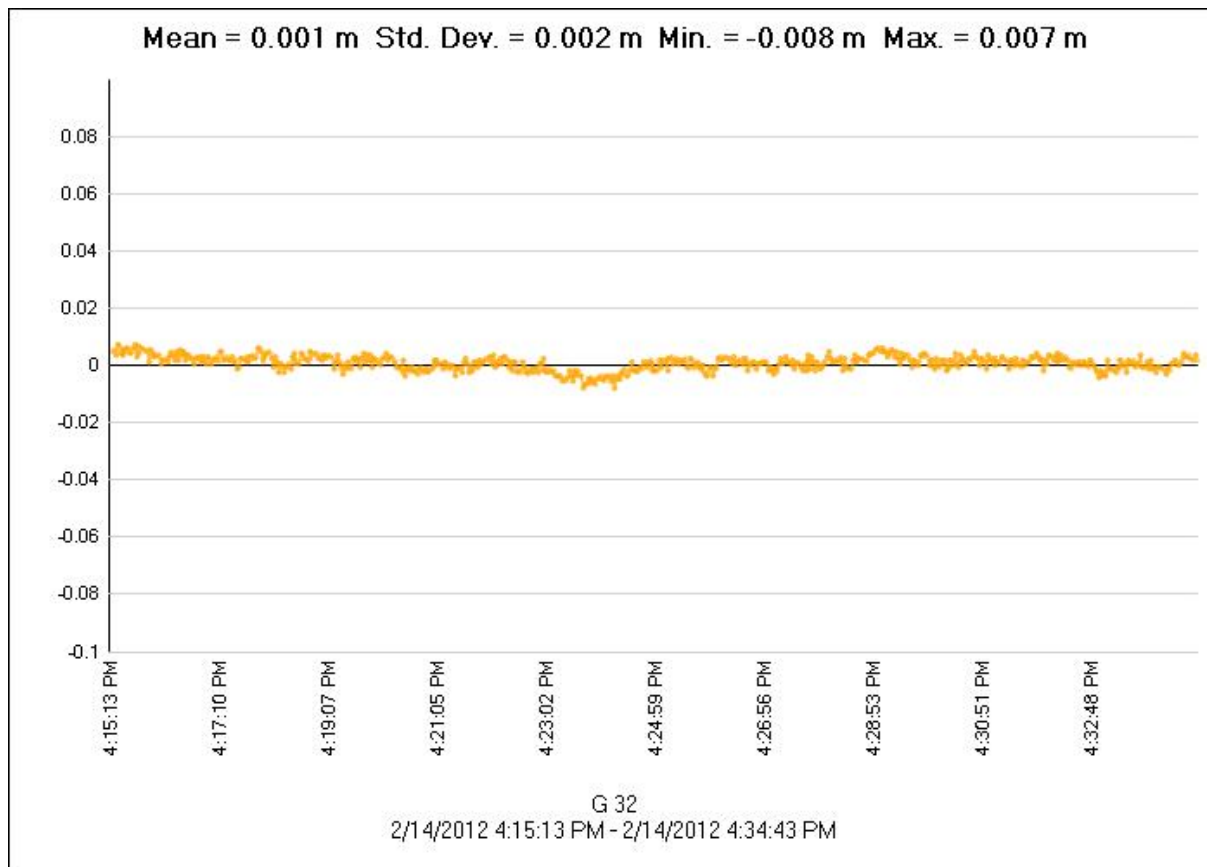
2/14/2012 4:15:13 PM - 2/14/2012 4:34:43 PM

Mean = -0.001 m Std. Dev. = 0.002 m Min. = -0.008 m Max. = 0.005 m



G 31

2/14/2012 4:15:13 PM - 2/14/2012 4:34:43 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA22-B2 (10:19:47 AM-10:37:51 AM) (S170)

Baseline observation: JH0456 --- SVA22-B2 (B170)

Processed: 3/21/2012 2:59:02 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.027 m

Vertical precision: 0.017 m

RMS: 0.001 m

Maximum PDOP: 2.676

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/14/2012 10:19:47 AM (Local: UTC-7hr)

Processing stop time: 2/14/2012 10:37:51 AM (Local: UTC-7hr)

Processing duration: 00:18:04

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA22-B2				
Grid		Local		Global	
Easting	392284.770 m	Latitude	N38°14'52.84177"	Latitude	N38°14'52.84177"
Northing	4234049.407 m	Longitude	W100°13'51.59031"	Longitude	W100°13'51.59031"
Elevation	827.585 m	Height	801.908 m	Height	801.908 m

Vector					
9Ughb[	57021.465 m	NS Fwd Azimuth	113°53'24"	L	53595.875 m
BcfA\jb[	-26665.430 m	Ellipsoid Dist.	62958.918 m	M	-26152.816 m
9Yj Uhcb	-83.734 m	<Y][\h	-84.494 m	N	-20207.957 m

Standard Errors

Vector errors:					
Point ID	0.004 m	Point Description	0°00'00"	Point Type	0.006 m
Point B	0.011 m	Point C	0.004 m	Point M	0.011 m
Point D	0.009 m	Point E	0.009 m	Point N	0.008 m





Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000342913		
Y	0.0000483286	0.0001216751	
Z	0.0000180163	0.0000270270	0.0000592488

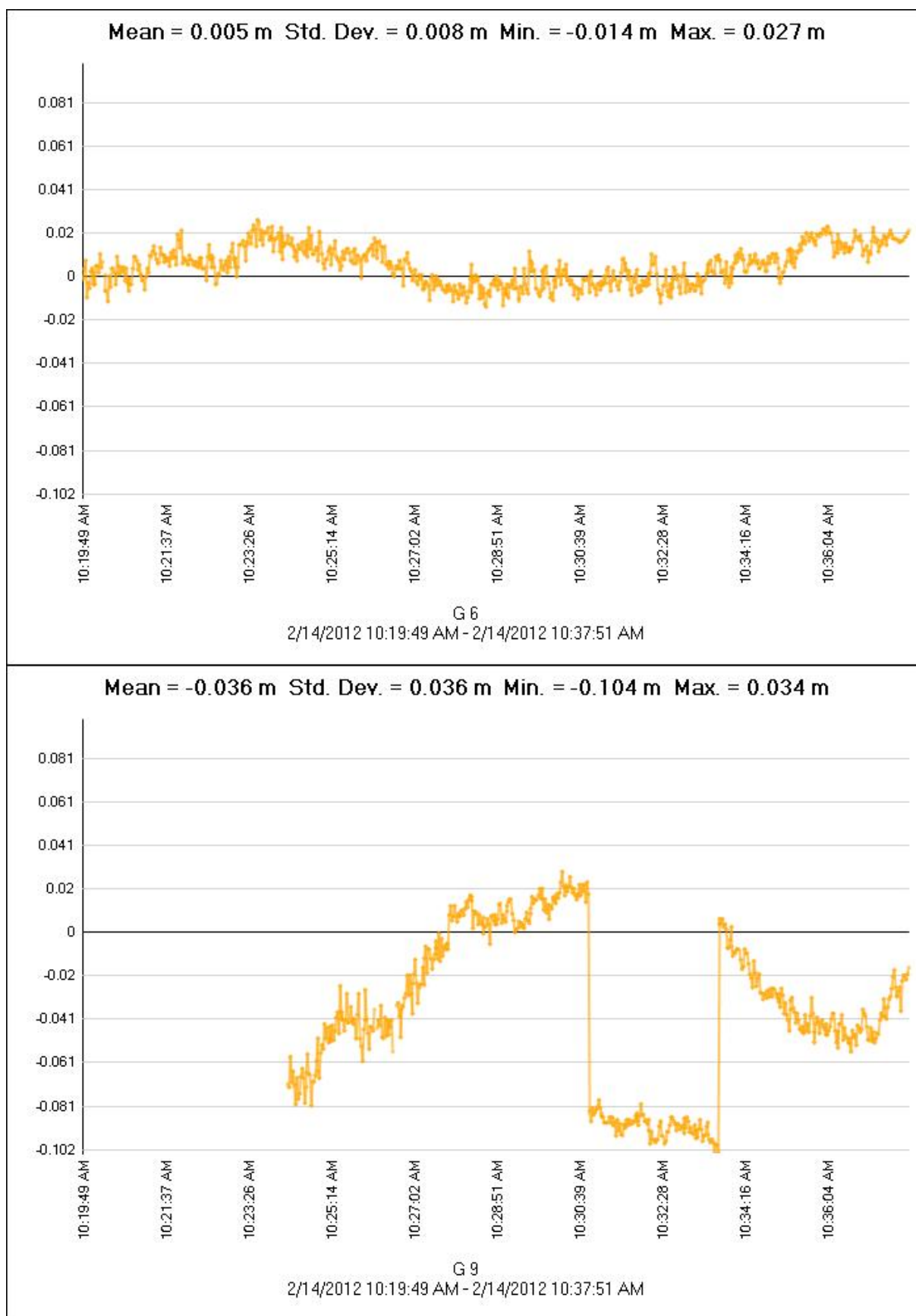
Occupations

	From	To
Point ID:	JH0456	SVA22-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010450.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040450-1.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

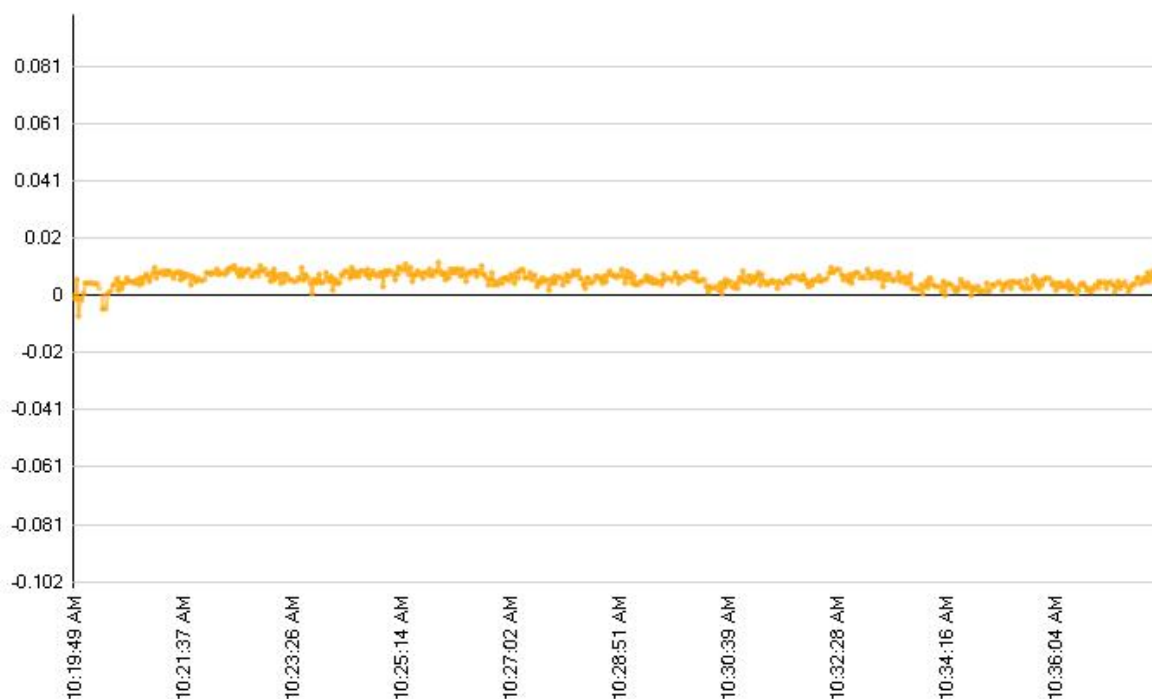
Tracking Summary

SV	2/14/2012 10:19:47 AM	Duration: 00:18:04	Major interval: 00:01:00	2/14/2012 10:37:51 AM
G 3	L1 L2			
G 5	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

Residuals



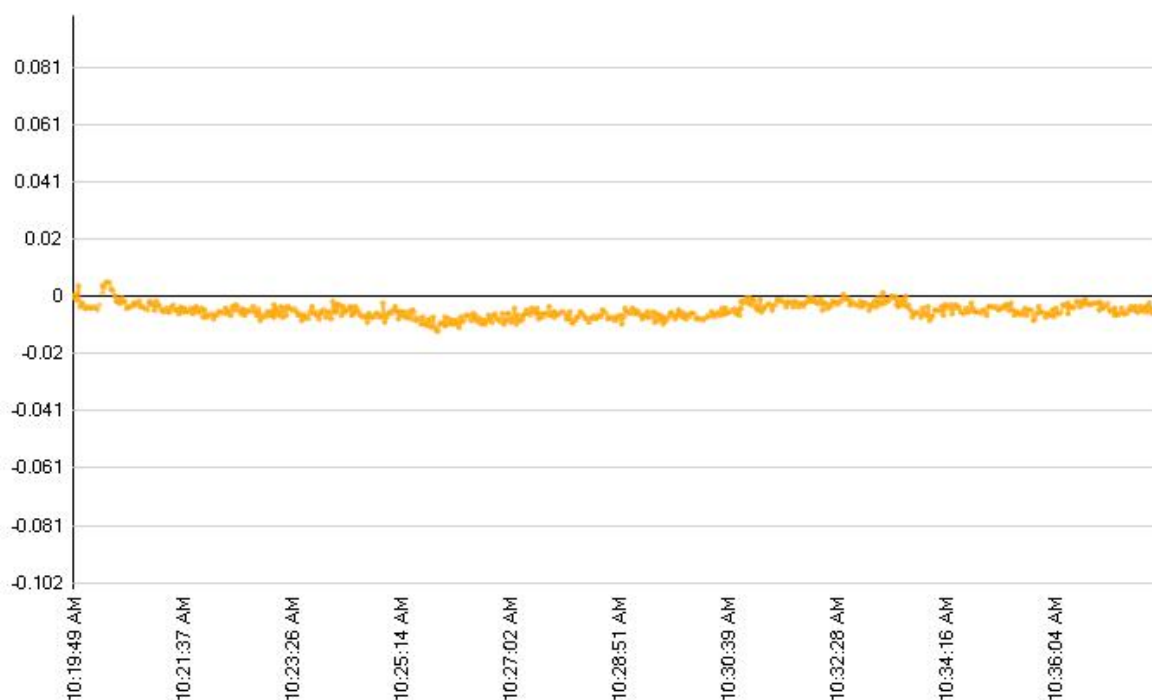
Mean = 0.005 m Std. Dev. = 0.002 m Min. = -0.007 m Max. = 0.012 m



G 15

2/14/2012 10:19:49 AM - 2/14/2012 10:37:51 AM

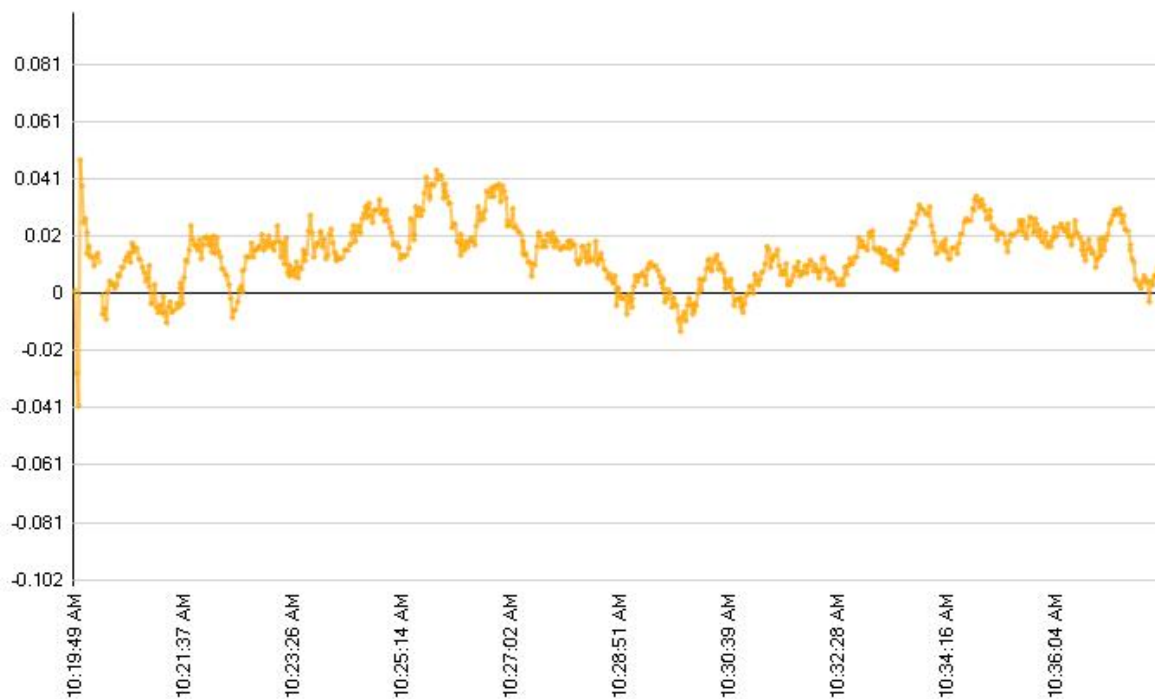
Mean = -0.005 m Std. Dev. = 0.002 m Min. = -0.012 m Max. = 0.005 m



G 21

2/14/2012 10:19:49 AM - 2/14/2012 10:37:51 AM

Mean = 0.014 m Std. Dev. = 0.011 m Min. = -0.040 m Max. = 0.048 m



G 22
2/14/2012 10:19:49 AM - 2/14/2012 10:37:51 AM

Mean = -0.016 m Std. Dev. = 0.022 m Min. = -0.072 m Max. = 0.060 m



G 27
2/14/2012 10:19:49 AM - 2/14/2012 10:37:51 AM

Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA48-B2 (8:36:54 AM-8:56:02 AM) (S171)

Baseline observation: JH0456 --- FVA48-B2 (B171)

Processed: 3/21/2012 2:59:39 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.043 m

Vertical precision: 0.064 m

RMS: 0.003 m

Maximum PDOP: 2.622

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 8:36:54 AM (Local: UTC-7hr)

Processing stop time: 2/15/2012 8:56:02 AM (Local: UTC-7hr)

Processing duration: 00:19:08

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA48-B2				
Grid		Local		Global	
Easting	372012.310 m	Latitude	N38°24'58.90005"	Latitude	N38°24'58.90005"
Northing	4253030.377 m	Longitude	W100°27'57.79408"	Longitude	W100°27'57.79408"
Elevation	862.534 m	Height	837.123 m	Height	837.123 m

Vector					
9Ughb[	36749.006 m	NS Fwd Azimuth	100°38'10"	L	35452.823 m
Bcfh\jb[	-7684.460 m	Ellipsoid Dist.	37548.907 m	M	-11084.516 m
9Yj Uhcb	-48.785 m	<Y][\h	-49.280 m	N	-5525.419 m

Standard Errors

Vector errors:					
Point ID	0.017 m	Point Description	0°00'00"	Point Type	0.017 m
Point B	0.014 m	Point C	0.017 m	Point M	0.031 m
Point D	0.032 m	Point E	0.032 m	Point N	0.017 m

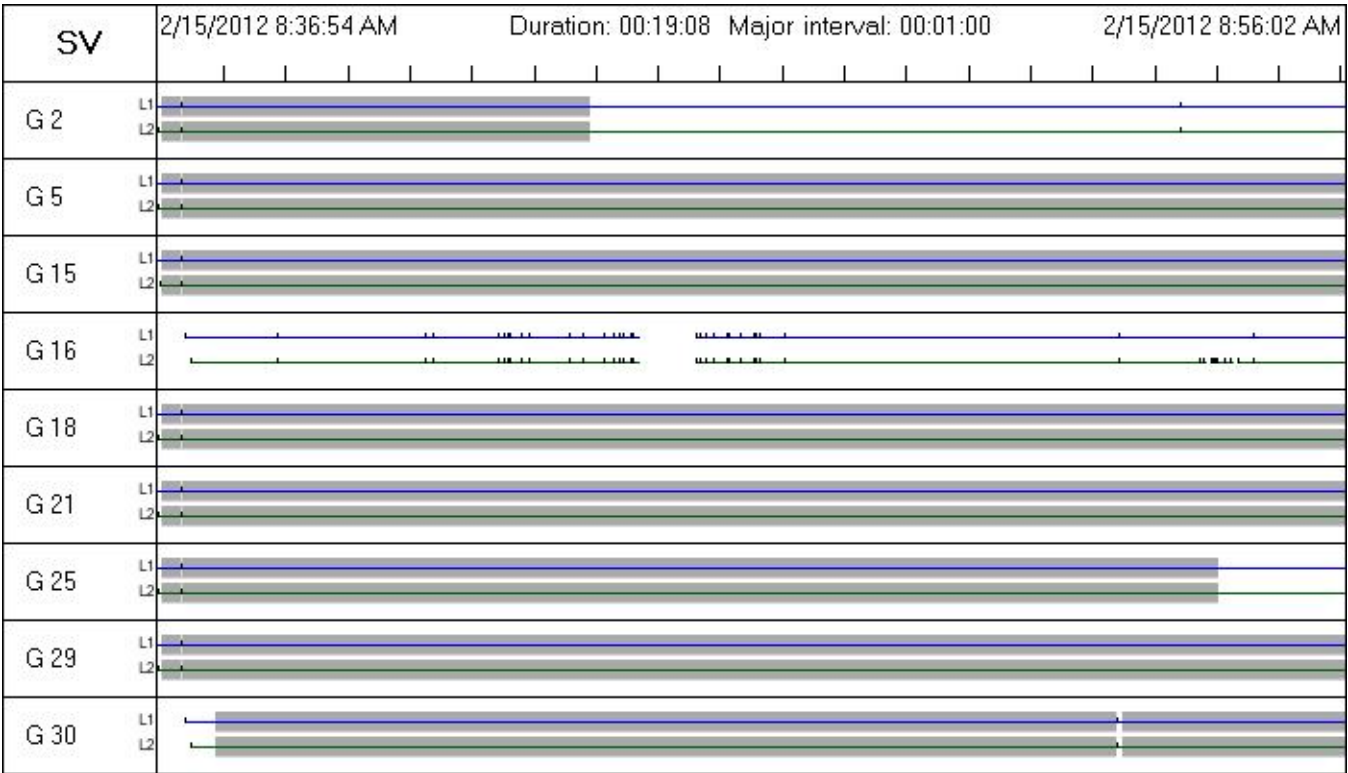
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0002995665		
Y	0.0000578832	0.0009793424	
Z	0.0000227996	-0.0003630721	0.0002829897

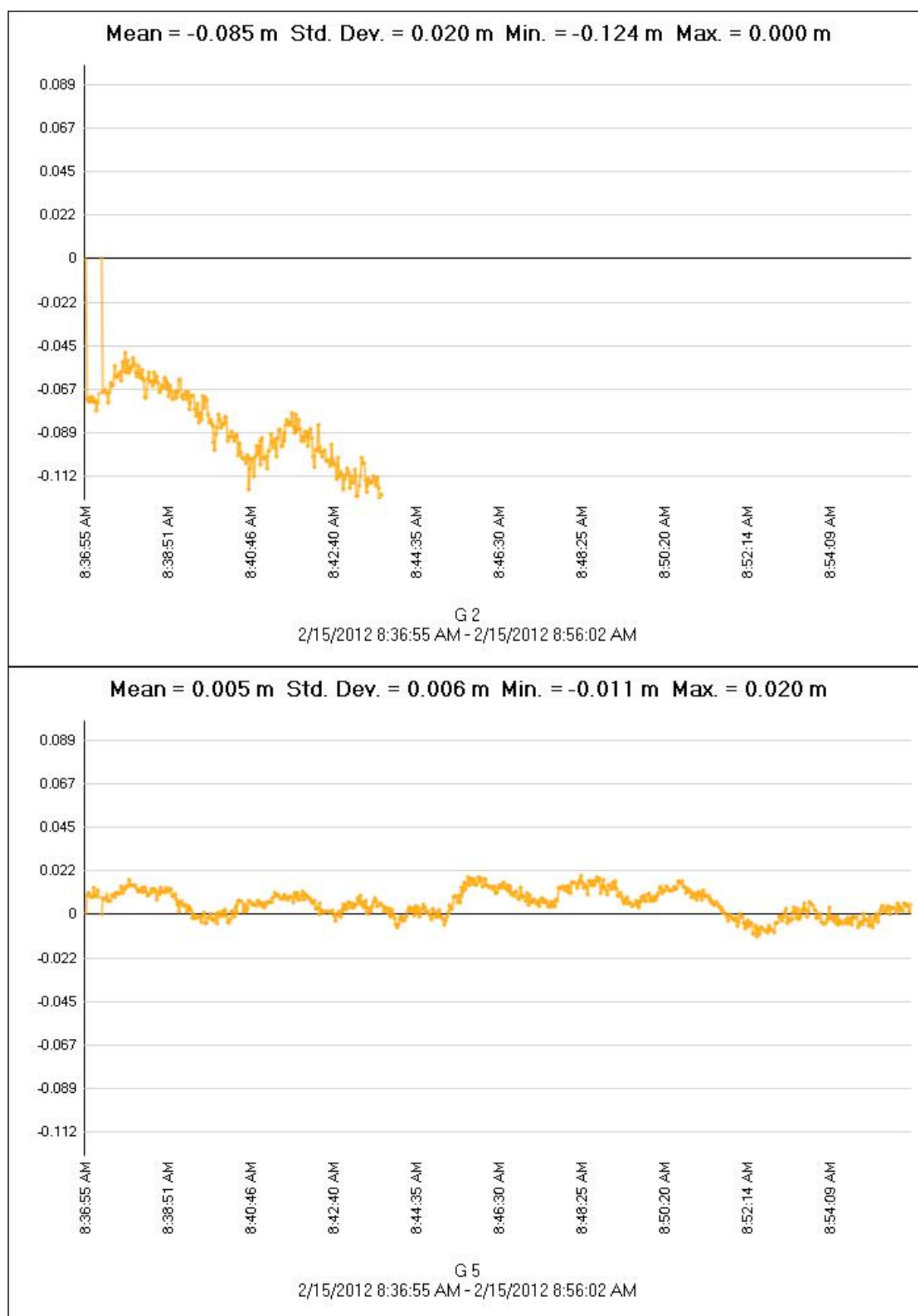
Occupations

	From	To
Point ID:	JH0456	FVA48-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010460.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080460.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary



Residuals



Mean = 0.005 m Std. Dev. = 0.005 m Min. = -0.010 m Max. = 0.019 m



G 15

2/15/2012 8:36:55 AM - 2/15/2012 8:56:02 AM

Mean = 0.000 m Std. Dev. = 0.010 m Min. = -0.029 m Max. = 0.026 m



G 18

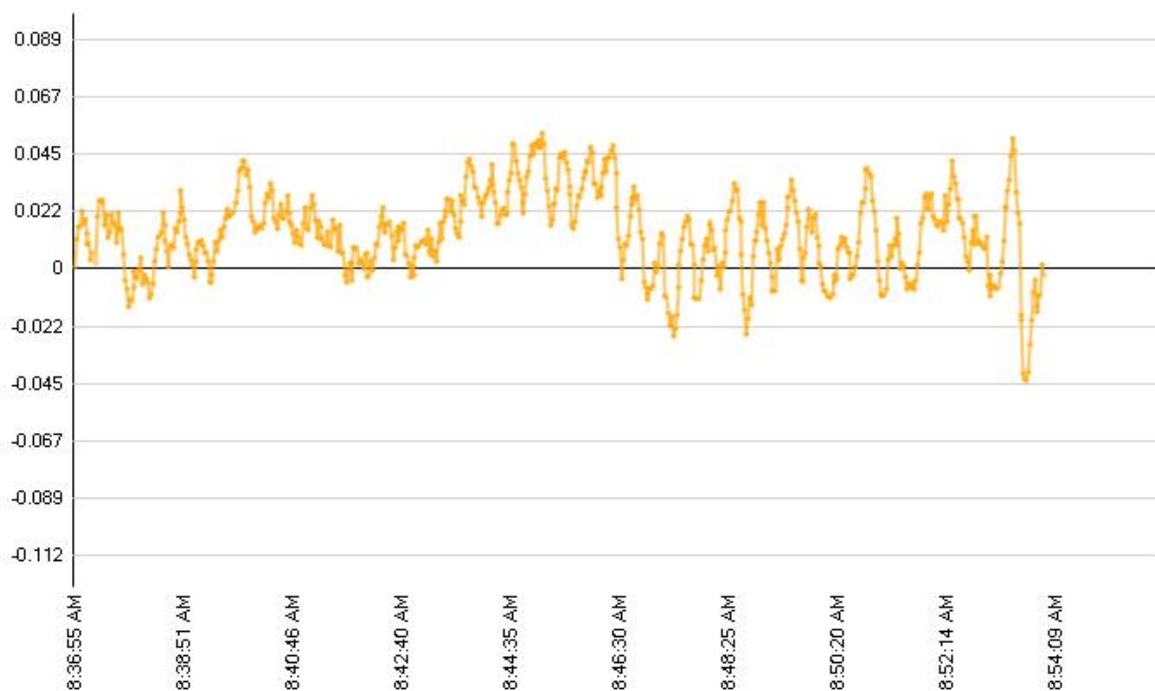
2/15/2012 8:36:55 AM - 2/15/2012 8:56:02 AM

Mean = 0.004 m Std. Dev. = 0.005 m Min. = -0.009 m Max. = 0.023 m

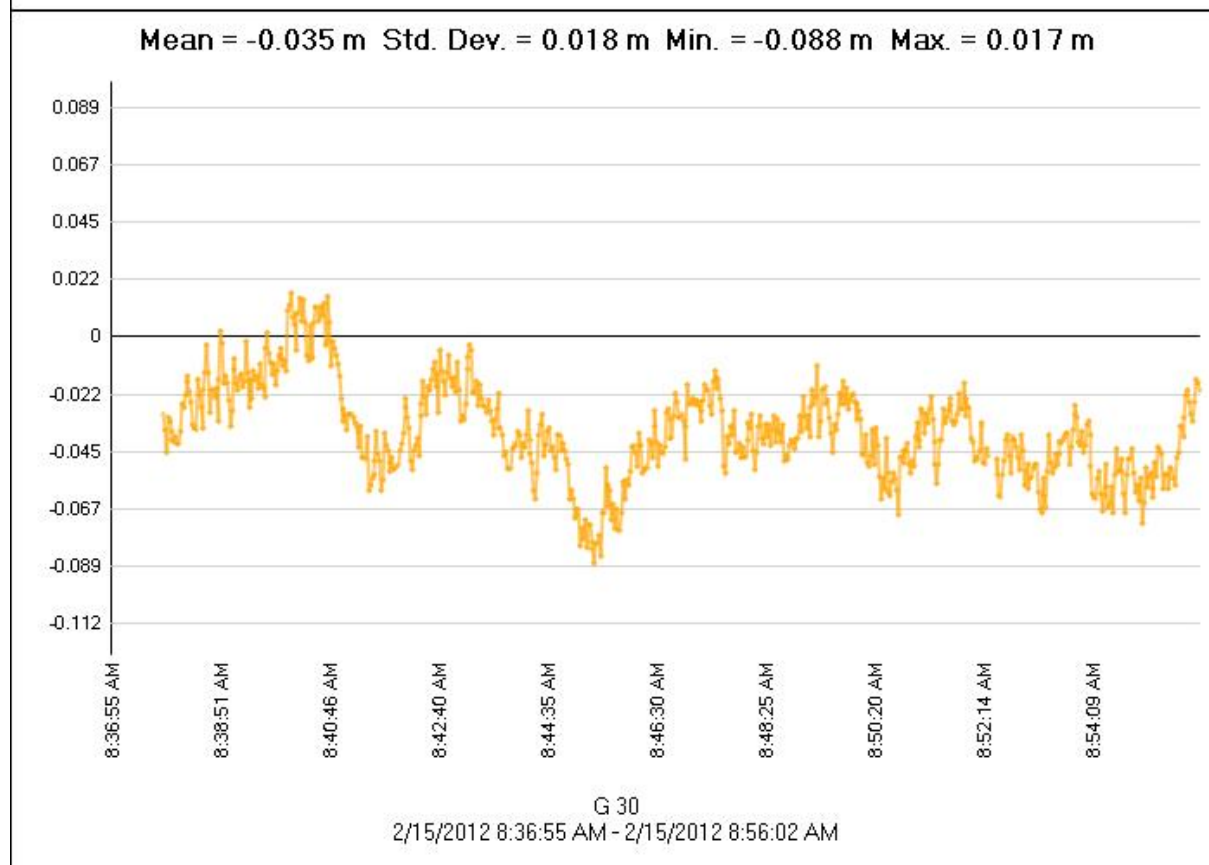
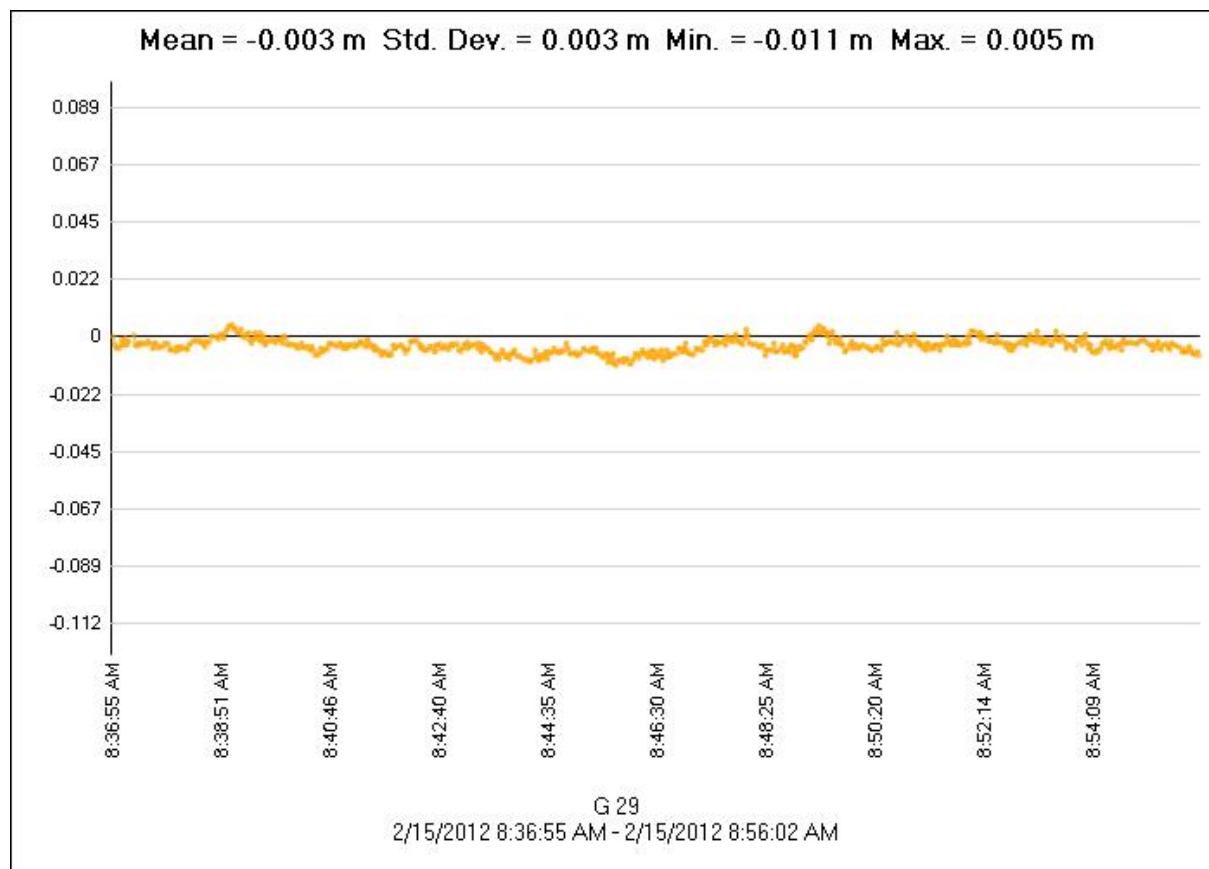


G 21
2/15/2012 8:36:55 AM - 2/15/2012 8:56:02 AM

Mean = 0.013 m Std. Dev. = 0.016 m Min. = -0.044 m Max. = 0.053 m



G 25
2/15/2012 8:36:55 AM - 2/15/2012 8:56:02 AM



Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA20-B2 (9:29:24 AM-9:50:08 AM) (S172)

Baseline observation: JH0456 --- FVA20-B2 (B172)

Processed: 3/21/2012 2:59:40 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.014 m

Vertical precision: 0.057 m

RMS: 0.003 m

Maximum PDOP: 4.607

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 9:29:24 AM (Local: UTC-7hr)

Processing stop time: 2/15/2012 9:50:08 AM (Local: UTC-7hr)

Processing duration: 00:20:44

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA20-B2				
Grid		Local		Global	
Easting	383189.952 m	Latitude	N38°30'34.04593"	Latitude	N38°30'34.04593"
Northing	4263193.234 m	Longitude	W100°20'23.08170"	Longitude	W100°20'23.08170"
Elevation	834.024 m	Height	808.509 m	Height	808.509 m

Vector					
9Ughb[	47926.648 m	NS Fwd Azimuth	85°51'51"	L	47461.815 m
Bcfh\jb[	2478.397 m	Ellipsoid Dist.	47998.059 m	M	-6730.235 m
9Yj Uhcb	-77.296 m	<Y][\h	-77.894 m	N	2549.585 m

Standard Errors

Vector errors:					
Point ID	0.005 m	Point Description	0°00'00"	Point Type	0.008 m
Point ID	0.005 m	Point Description	0.005 m	Point Type	0.022 m
Point ID	0.029 m	Point Description	0.029 m	Point Type	0.018 m

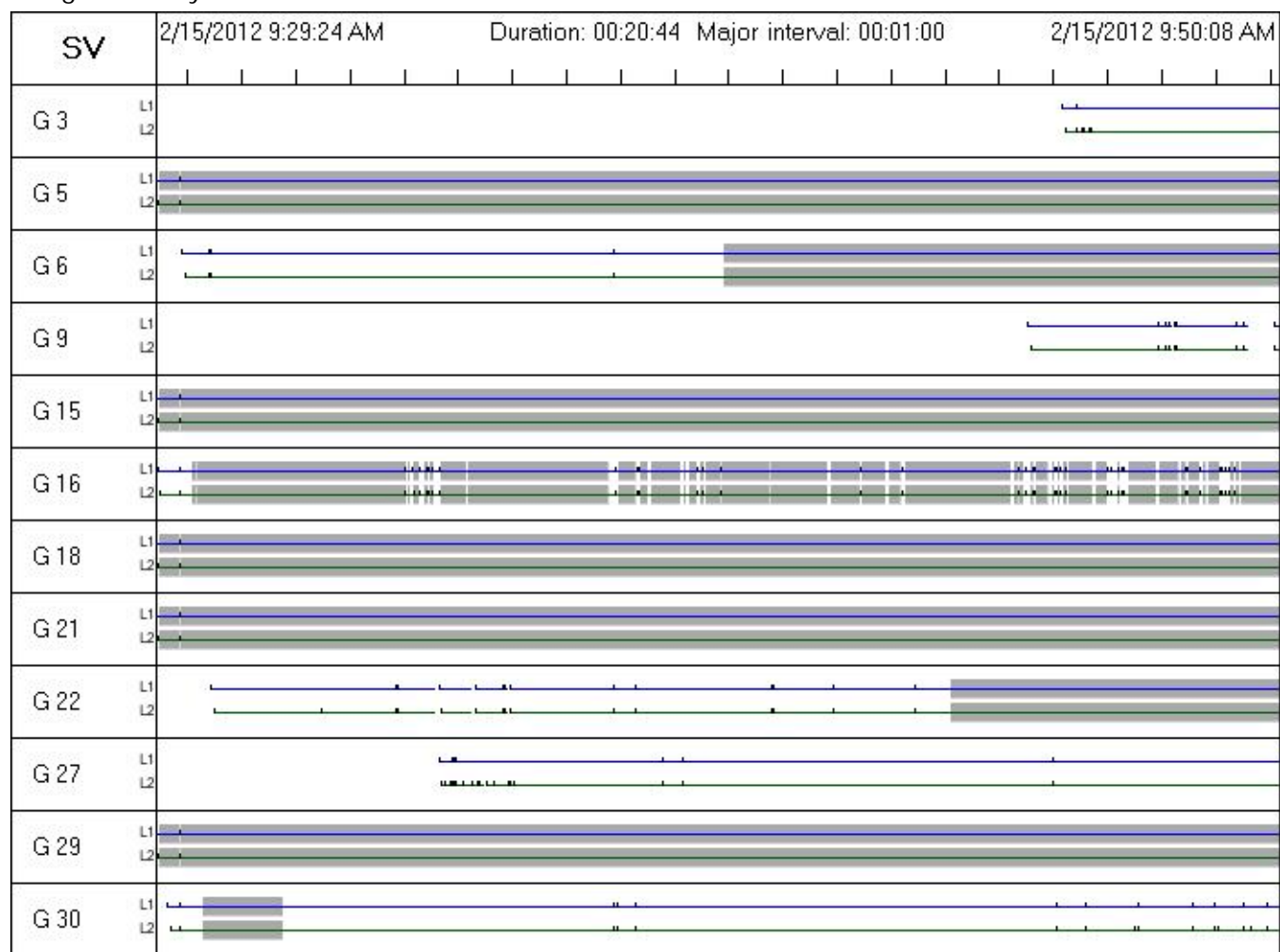
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000654231		
Y	0.0001548888	0.0005041849	
Z	-0.0001097992	-0.0003826891	0.0003190291

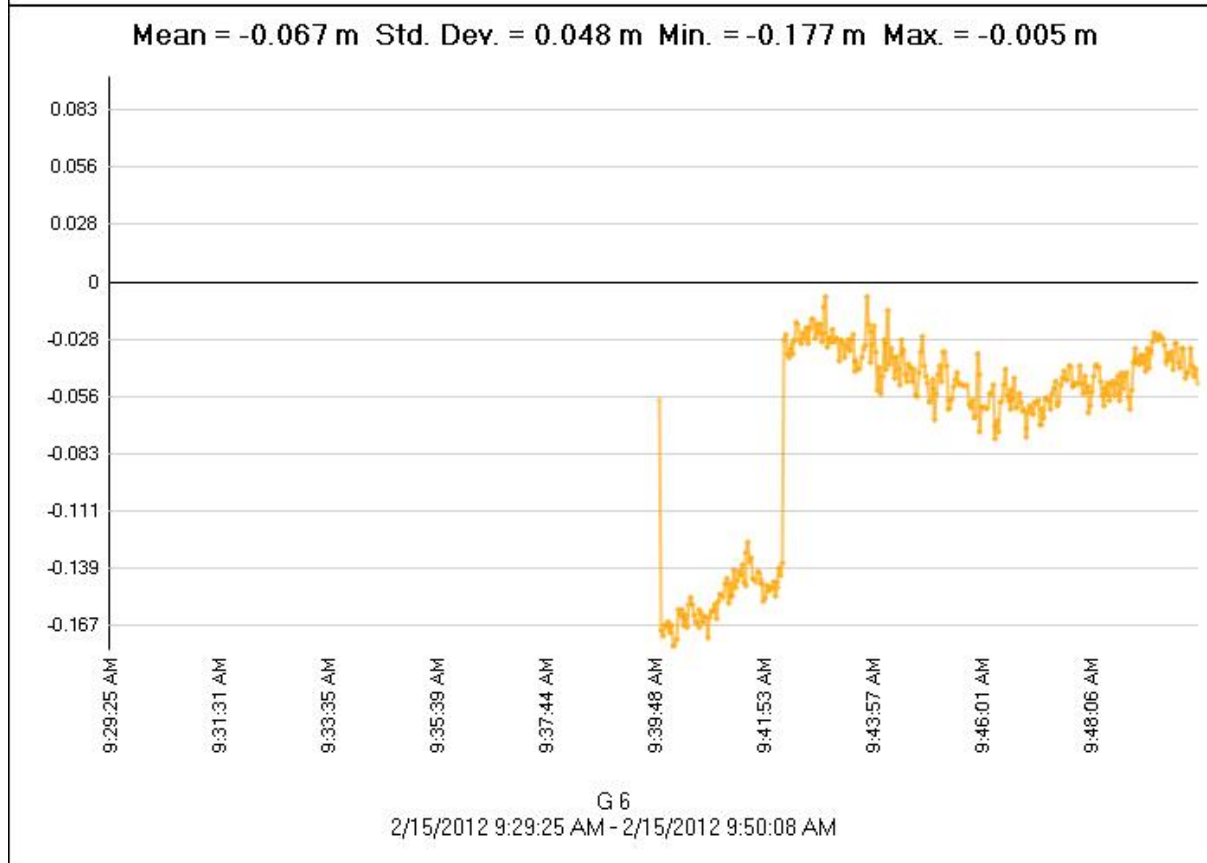
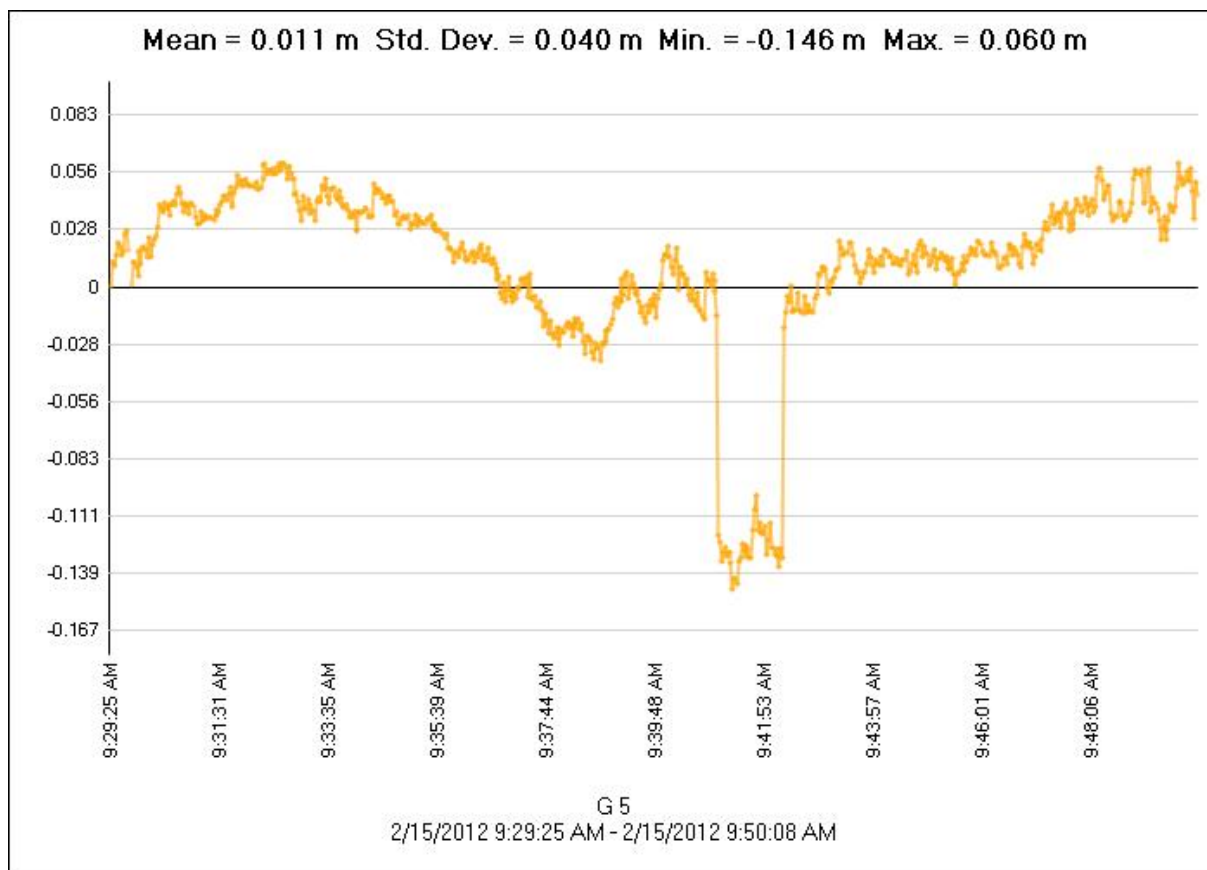
Occupations

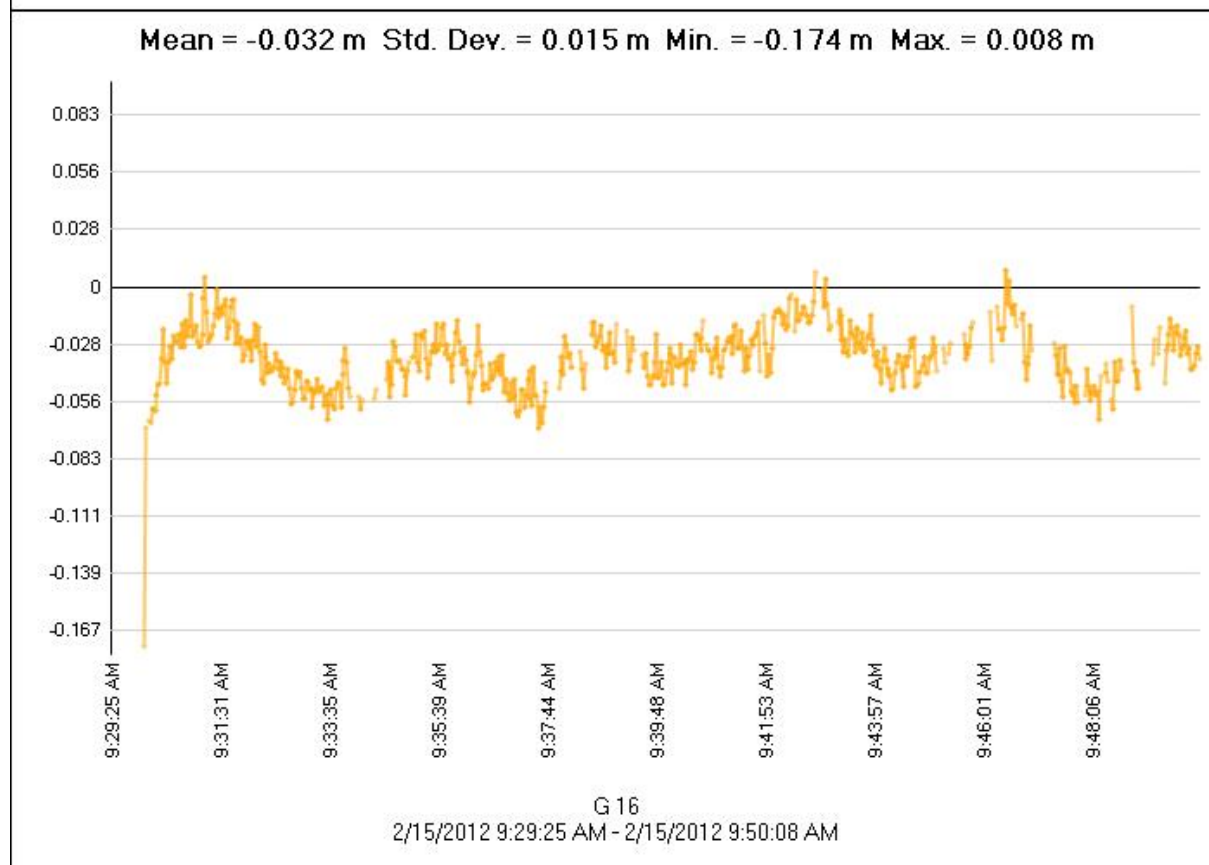
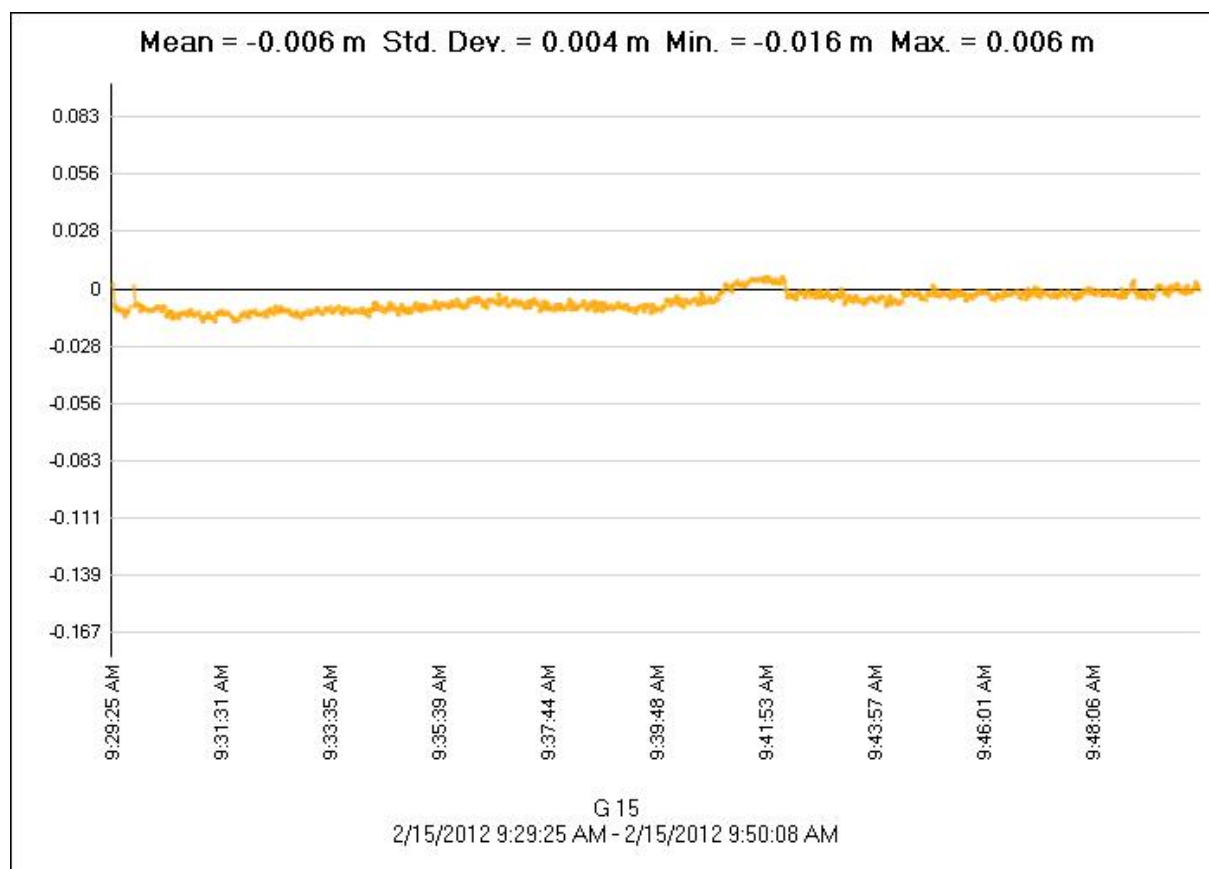
	From	To
Point ID:	JH0456	FVA20-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010460.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080461.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

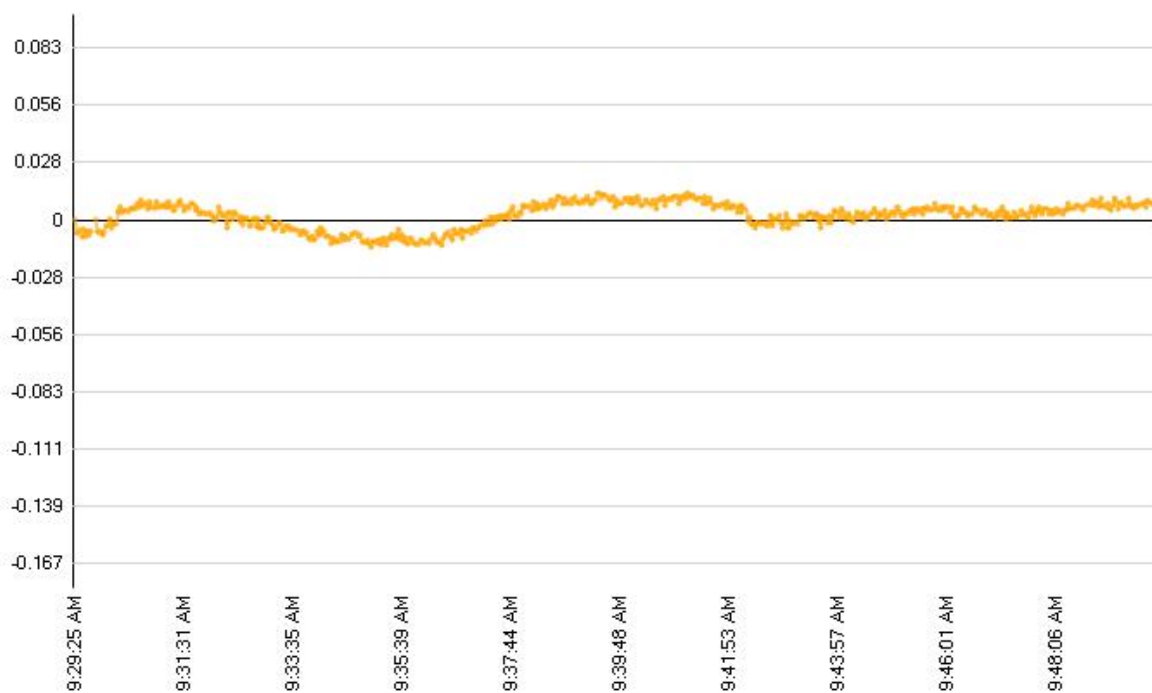


Residuals



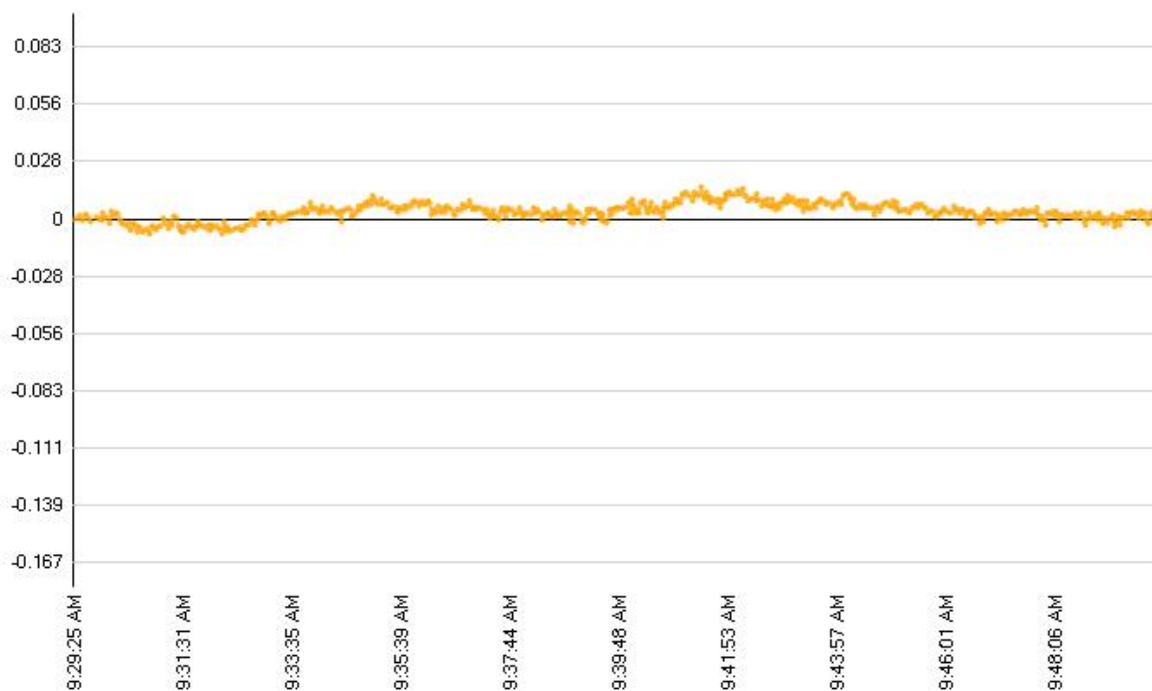


Mean = 0.002 m Std. Dev. = 0.006 m Min. = -0.013 m Max. = 0.013 m

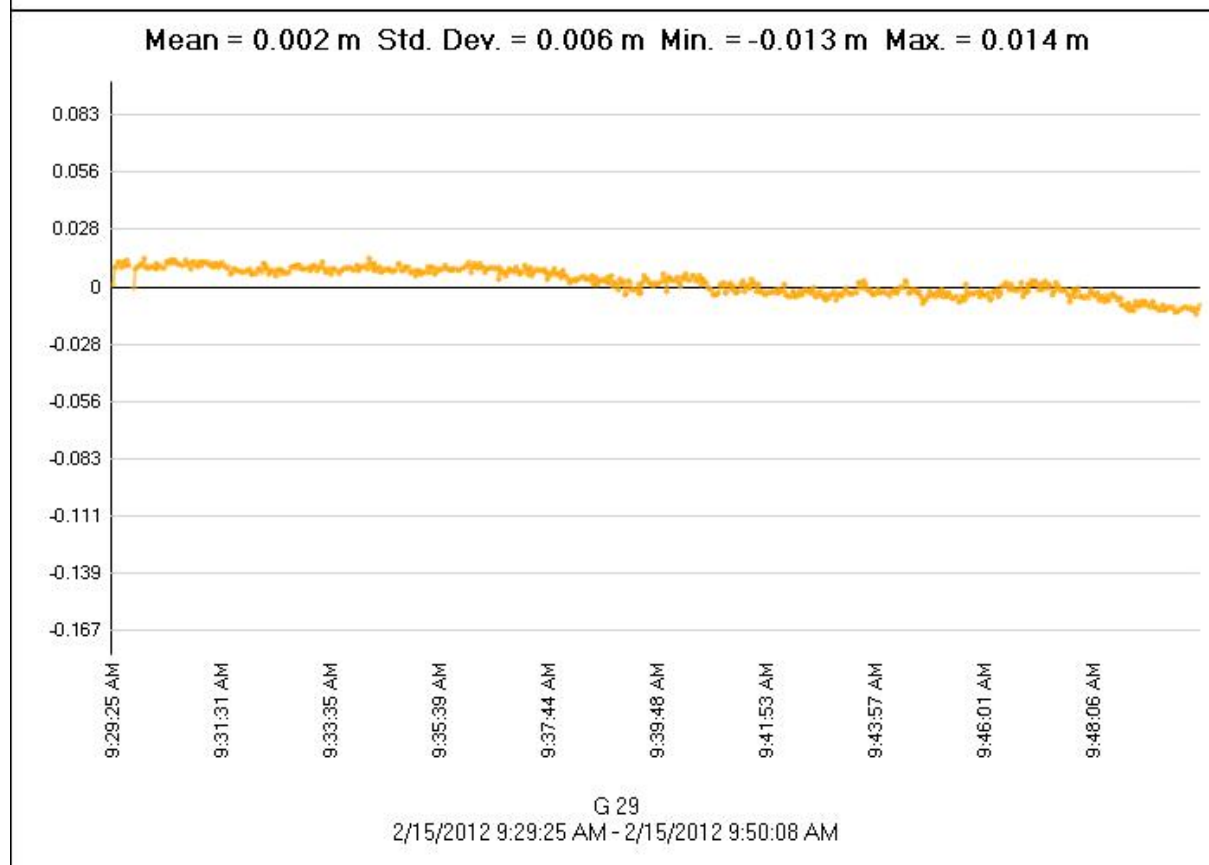
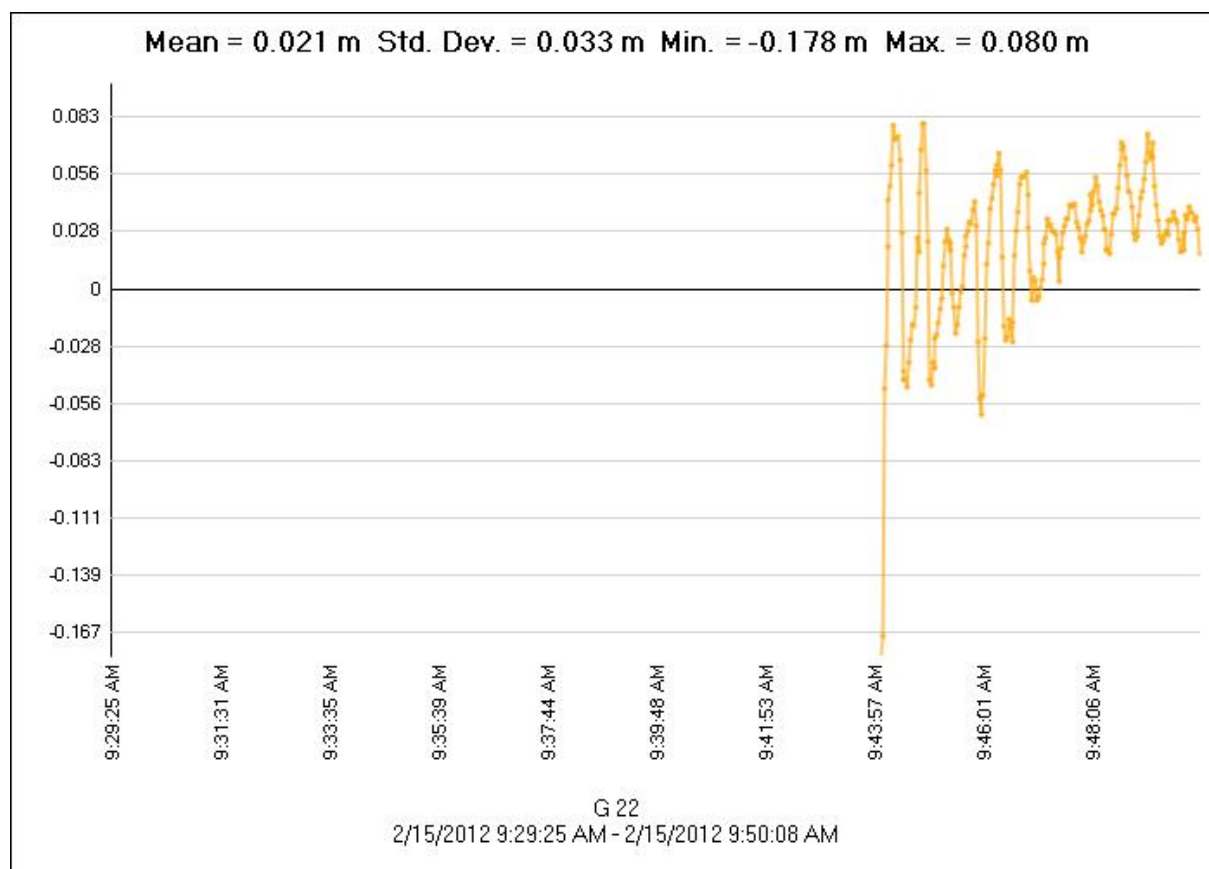


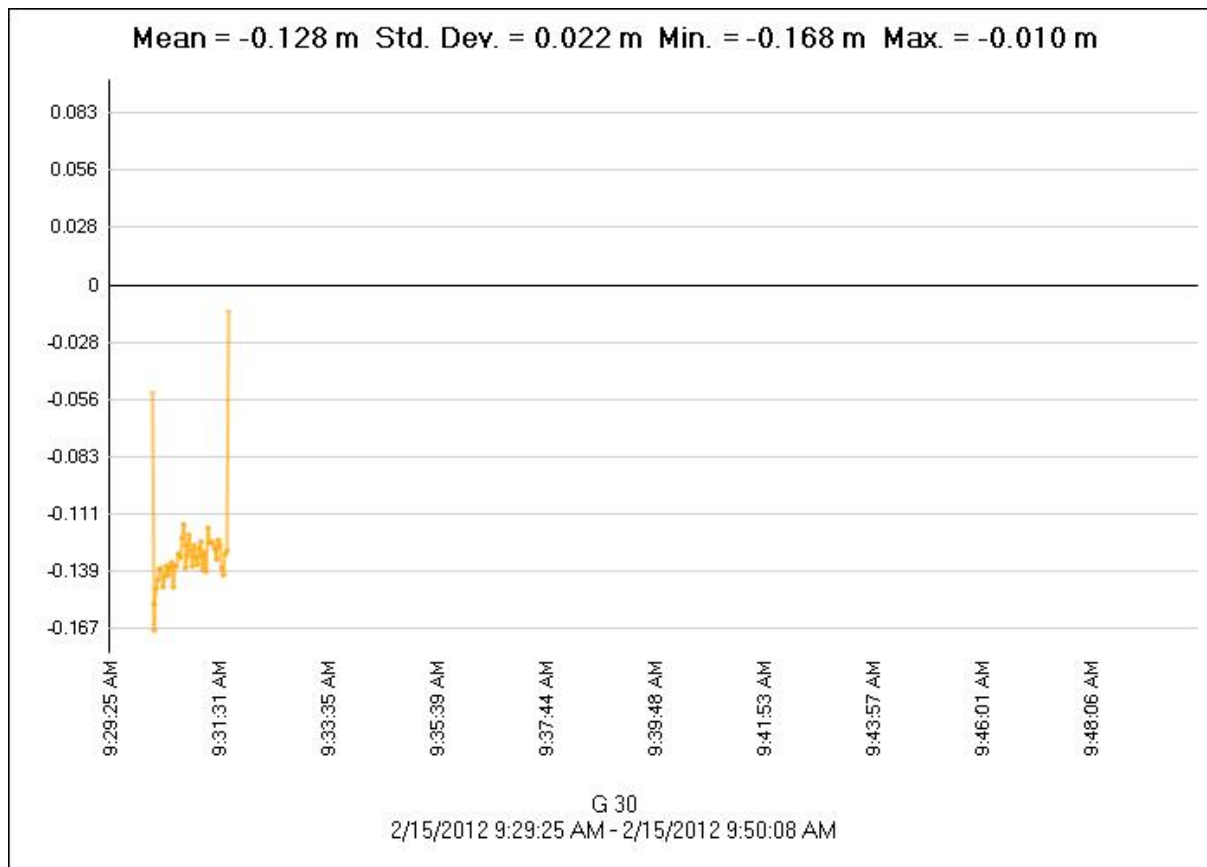
G 18
2/15/2012 9:29:25 AM - 2/15/2012 9:50:08 AM

Mean = 0.003 m Std. Dev. = 0.004 m Min. = -0.008 m Max. = 0.015 m



G 21
2/15/2012 9:29:25 AM - 2/15/2012 9:50:08 AM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA19-B2 (10:25:54 AM-10:45:12 AM) (S173)

Baseline observation: JH0456 --- FVA19-B2 (B173)

Processed: 4/3/2012 2:41:02 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.020 m

Vertical precision: 0.023 m

RMS: 0.001 m

Maximum PDOP: 1.776

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 10:25:54 AM (Local: UTC-7hr)

Processing stop time: 2/15/2012 10:45:12 AM (Local: UTC-7hr)

Processing duration: 00:19:17

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.827 m	Latitude	N38°28'46.35964"	Latitude	N38°28'46.35964"
Northing	4260713.386 m	Longitude	W100°53'18.99726"	Longitude	W100°53'18.99726"
Elevation	901.781 m	Height	876.864 m	Height	876.864 m

To:	FVA19-B2				
Grid		Local		Global	
Easting	377756.534 m	Latitude	N38°34'58.84574"	Latitude	N38°34'58.84573"
Northing	4271438.547 m	Longitude	W100°24'12.56262"	Longitude	W100°24'12.56262"
Elevation	839.250 m	Height	813.815 m	Height	813.815 m

Vector					
9Ughb[	42492.708 m	NS Fwd Azimuth	74°39'28"	L	42908.455 m
Bcfh\jb[	10725.161 m	Ellipsoid Dist.	43831.665 m	M	-734.499 m
9Yj Uhcb	-62.531 m	<Y][\h	-63.049 m	N	8946.788 m

Standard Errors

Vector errors:					
Point ID	0.005 m	Point Description	0°00'00"	Point Type	0.005 m
Point ID	0.008 m	Point Description	0.005 m	Point Type	0.012 m
Point ID	0.011 m	Point Description	0.011 m	Point Type	0.007 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000286563		
Y	0.0000226532	0.0001413240	
Z	0.0000025455	-0.0000242960	0.0000518373

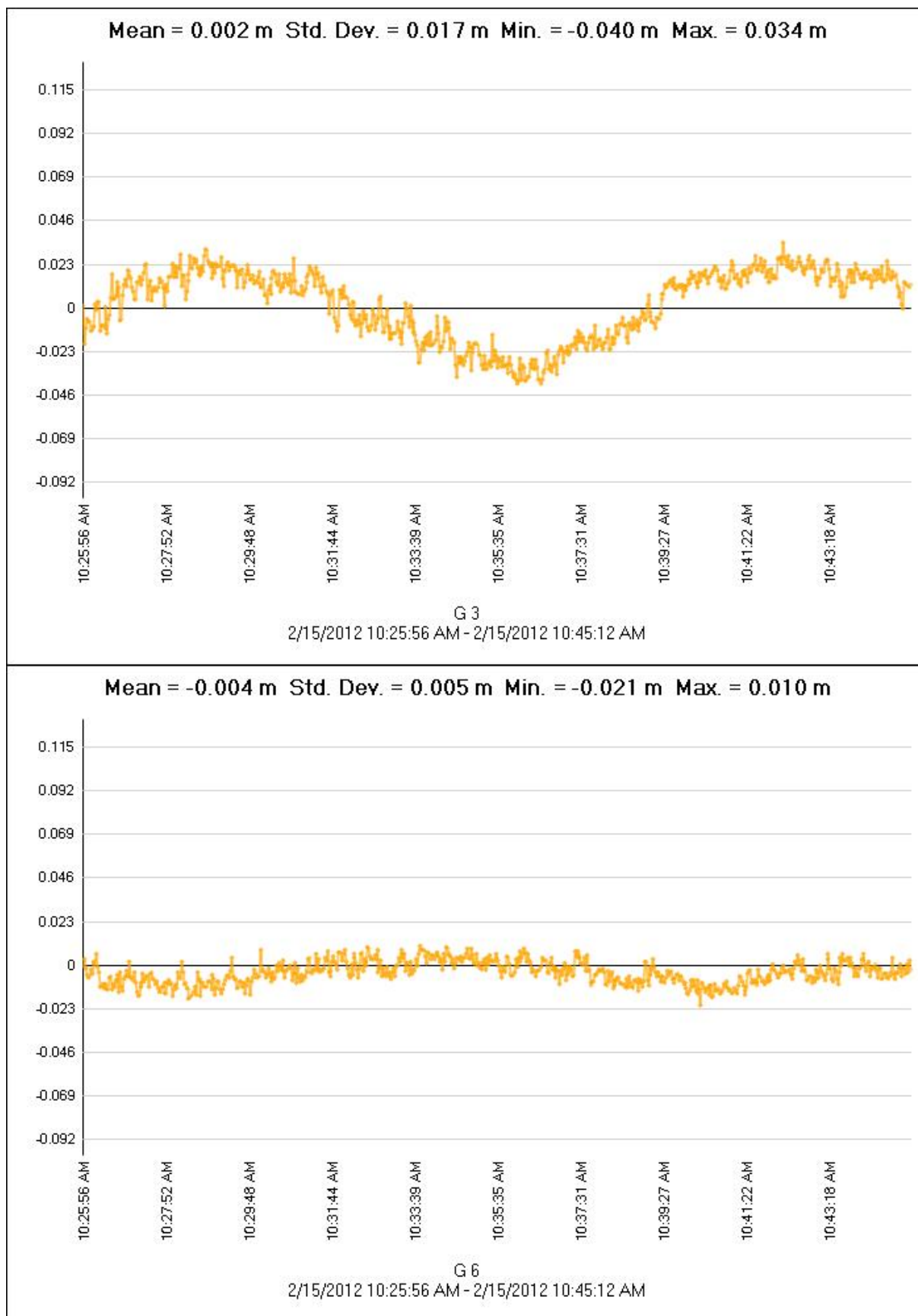
Occupations

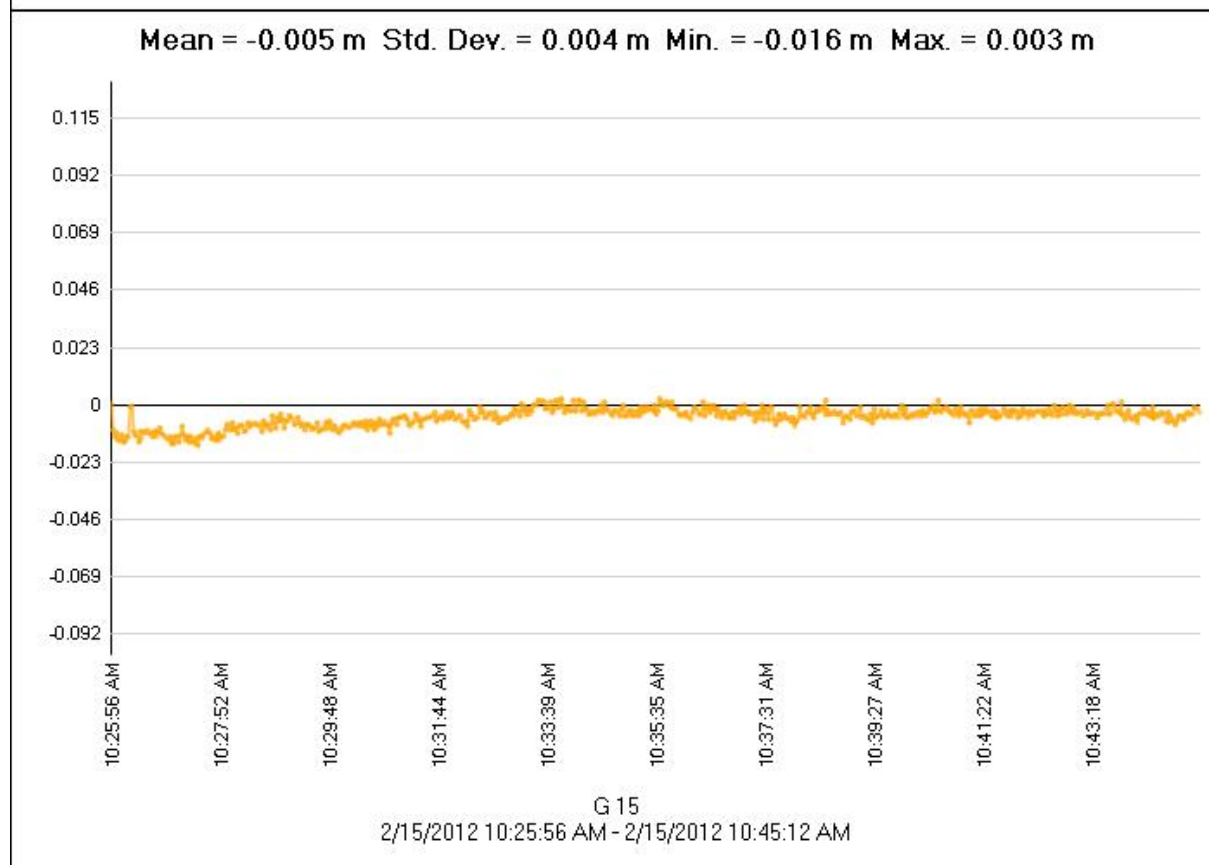
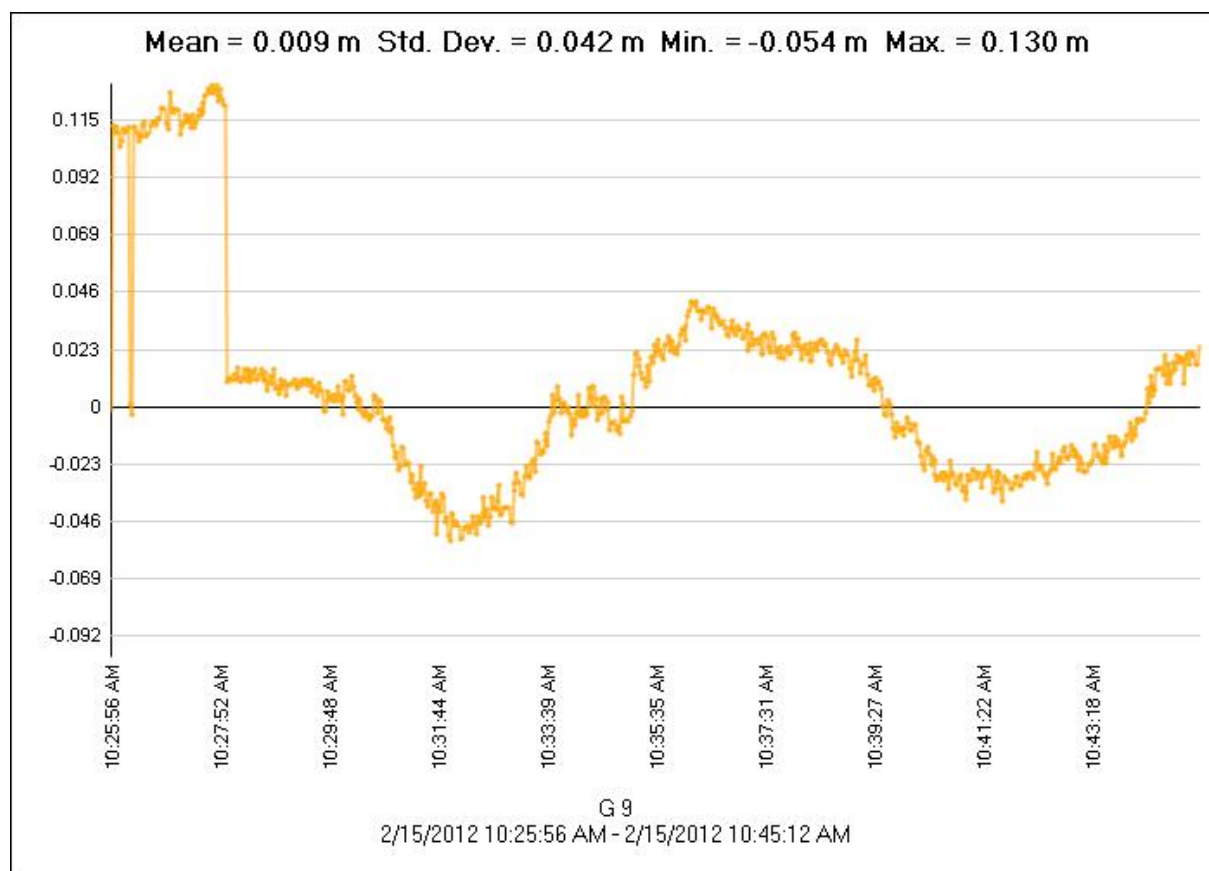
	From	To
Point ID:	JH0456	FVA19-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010460.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080462.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

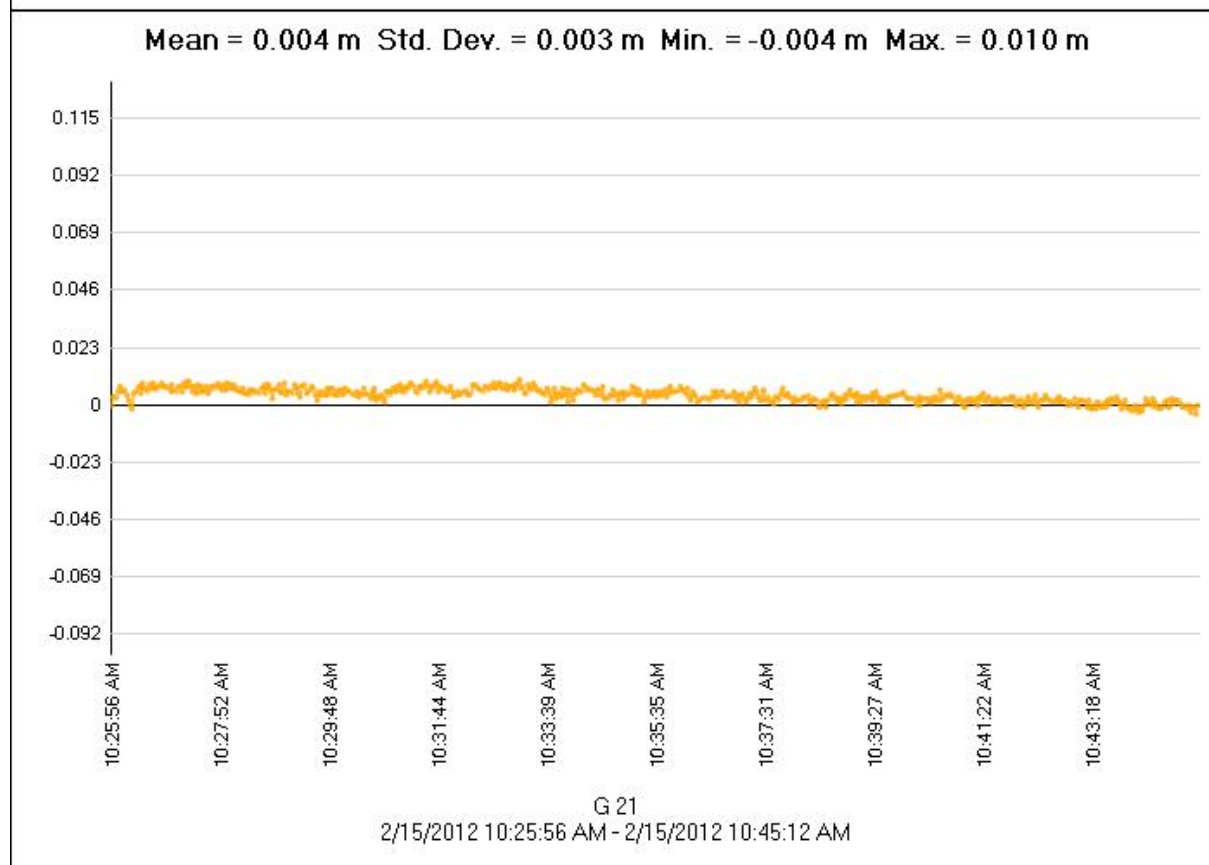
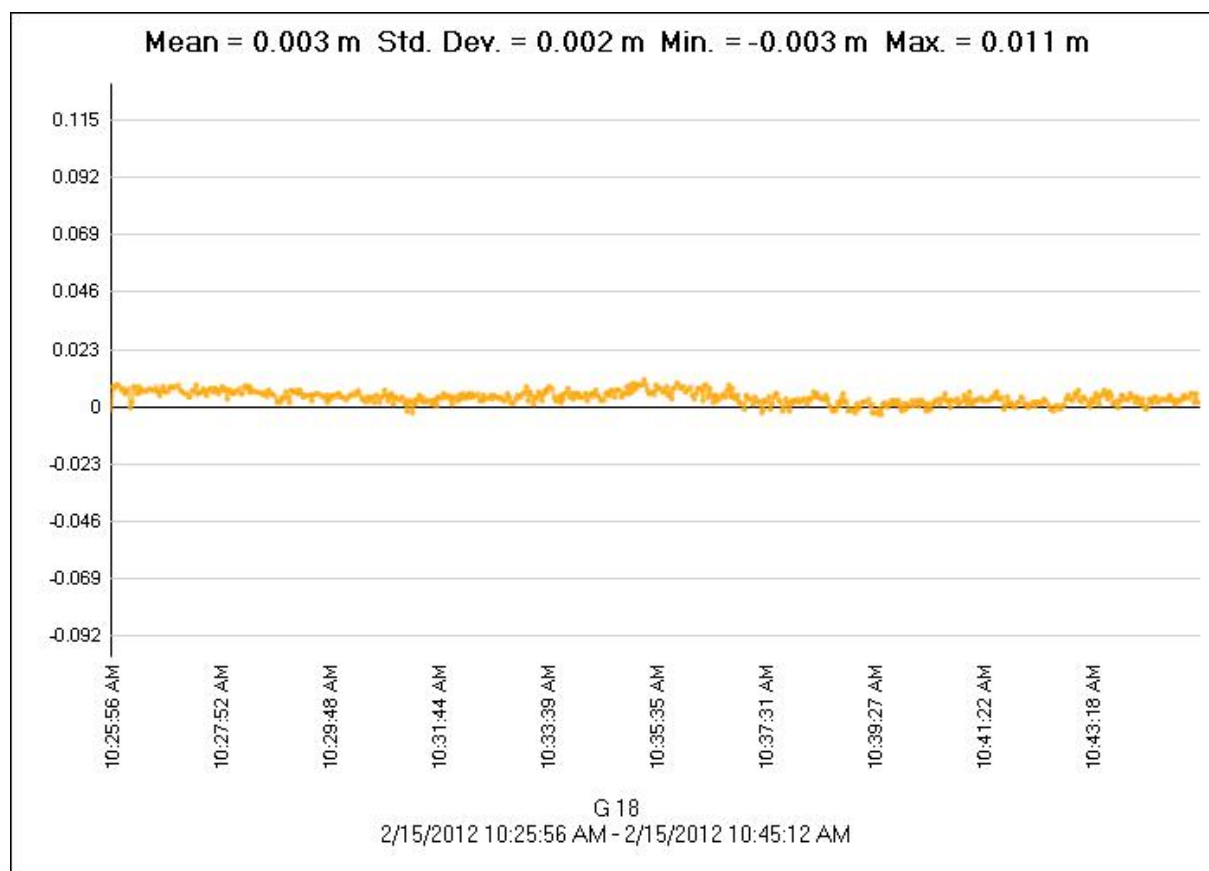
Tracking Summary

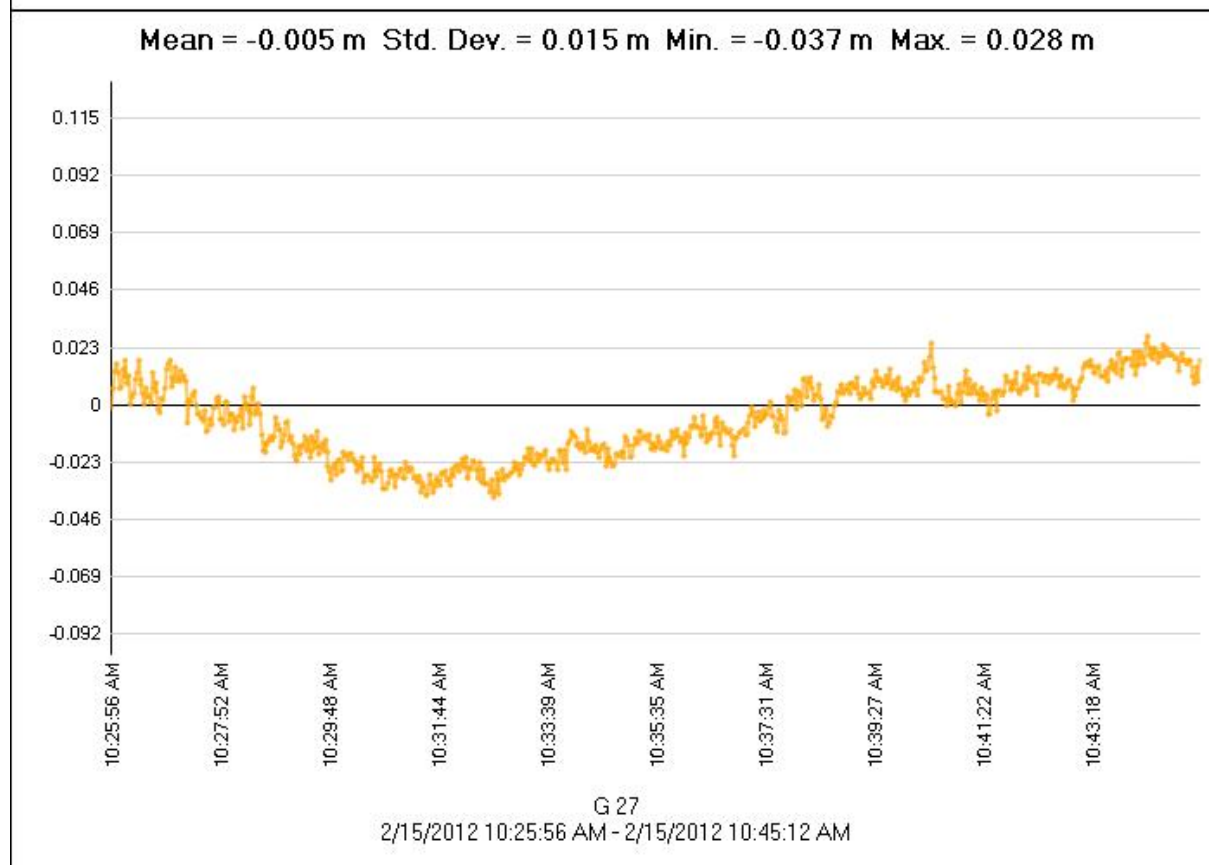
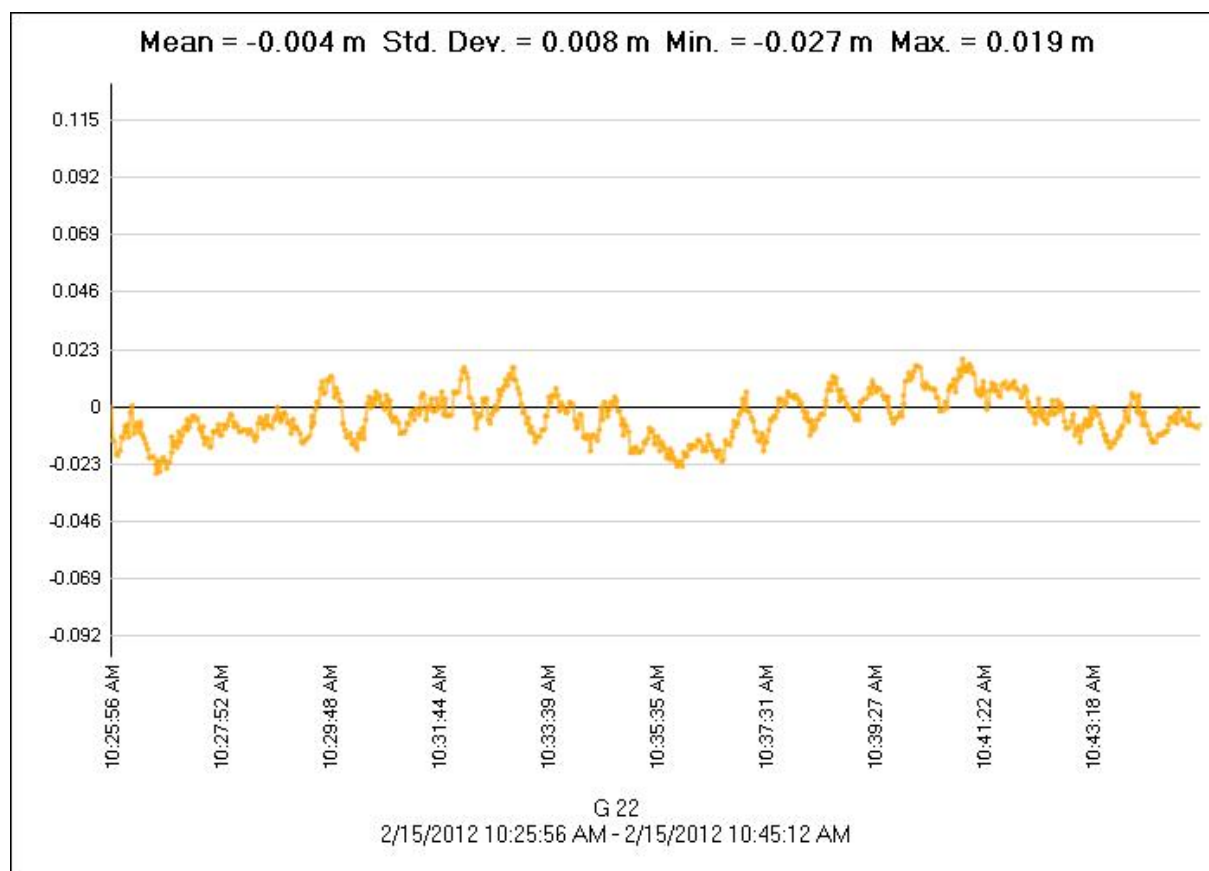
SV	2/15/2012 10:25:54 AM	Duration: 00:19:17.5000000	Major interval: 00:01:00	2/15/2012 10:45:12 AM
G 3				
G 5				
G 6				
G 9				
G 14				
G 15				
G 16				
G 18				
G 21				
G 22				
G 27				
G 29				

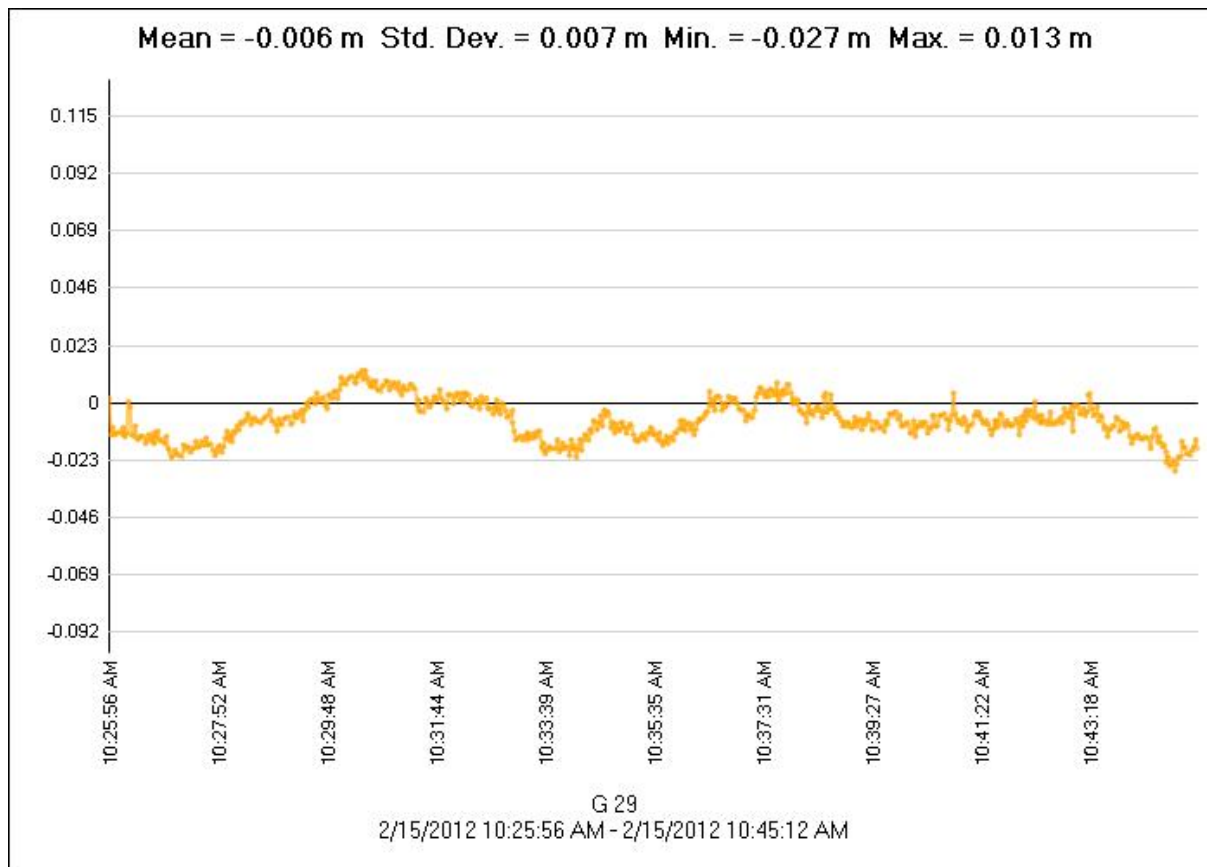
Residuals













Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA18-B2 (11:14:58 AM-11:34:43 AM) (S174)

Baseline observation: JH0456 --- FVA18-B2 (B174)

Processed: 3/21/2012 2:59:53 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.011 m

RMS: 0.003 m

Maximum PDOP: 2.413

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 11:14:58 AM (Local: UTC-7hr)

Processing stop time: 2/15/2012 11:34:43 AM (Local: UTC-7hr)

Processing duration: 00:19:45

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA18-B2				
Grid		Local		Global	
Easting	385837.983 m	Latitude	N38°40'38.93367"	Latitude	N38°40'38.93366"
Northing	4281804.548 m	Longitude	W100°18'44.75104"	Longitude	W100°18'44.75104"
Elevation	823.118 m	Height	797.605 m	Height	797.605 m

Vector					
9Ughb[	50574.679 m	NS Fwd Azimuth	66°11'10"	L	51890.522 m
Bcfh\jb[	21089.712 m	Ellipsoid Dist.	54804.403 m	M	4299.492 m
9Yj Uhcb	-88.202 m	<Y][\h	-88.798 m	N	17122.869 m

Standard Errors

Vector errors:					
Point ID	0.002 m	Point Description	0°00'00"	Point Type	0.002 m
Point B	0.004 m	Point C	0.003 m	Point M	0.005 m
Point D	0.006 m	Point E	0.006 m	Point N	0.005 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000060983		
Y	0.0000054357	0.0000252252	
Z	-0.0000019100	-0.0000067942	0.0000222023

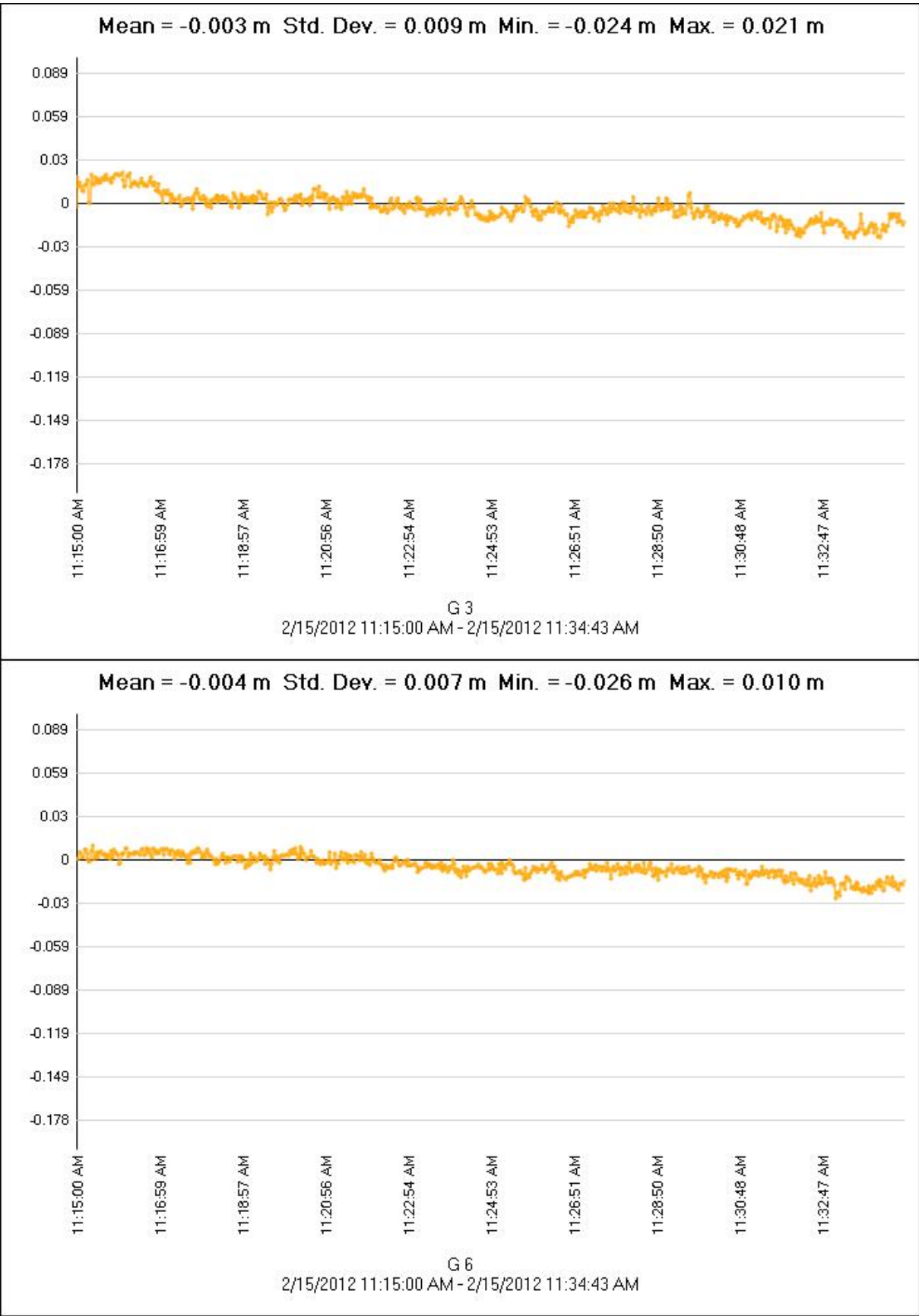
Occupations

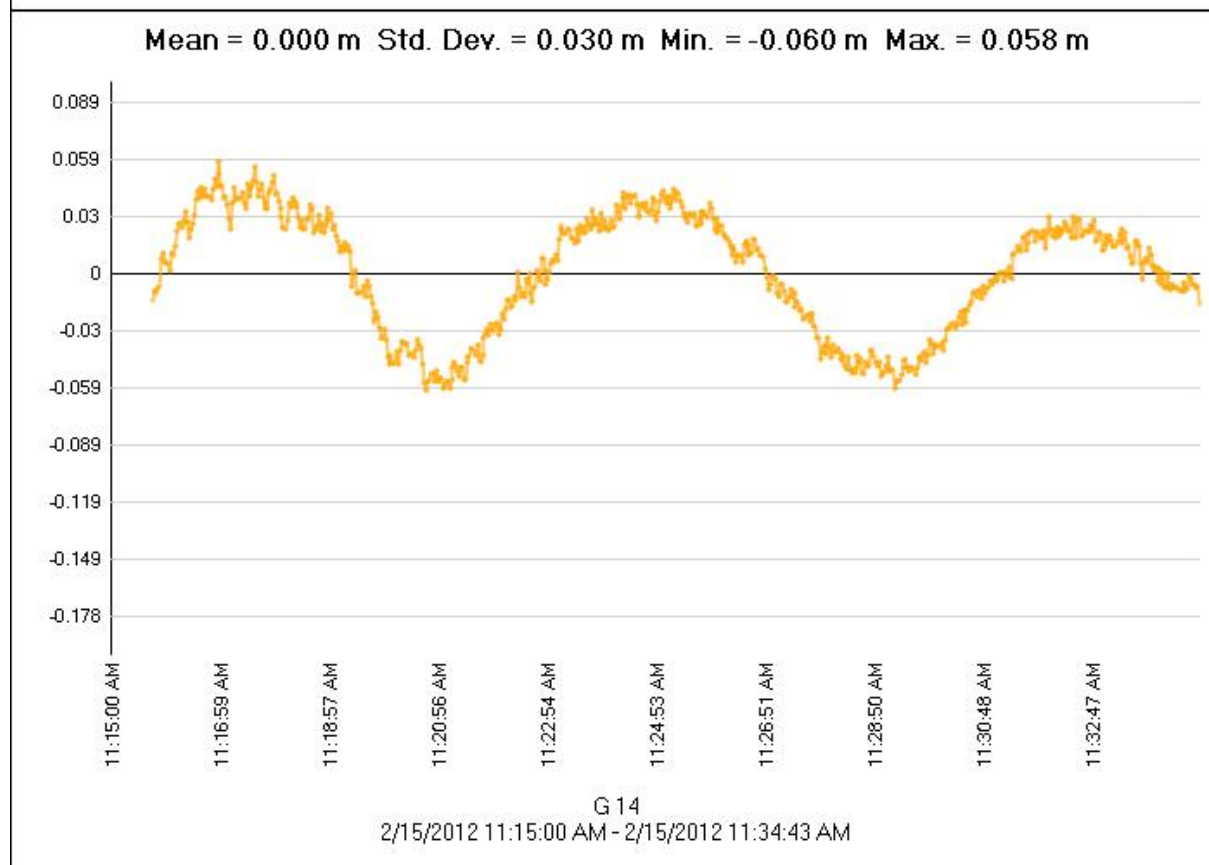
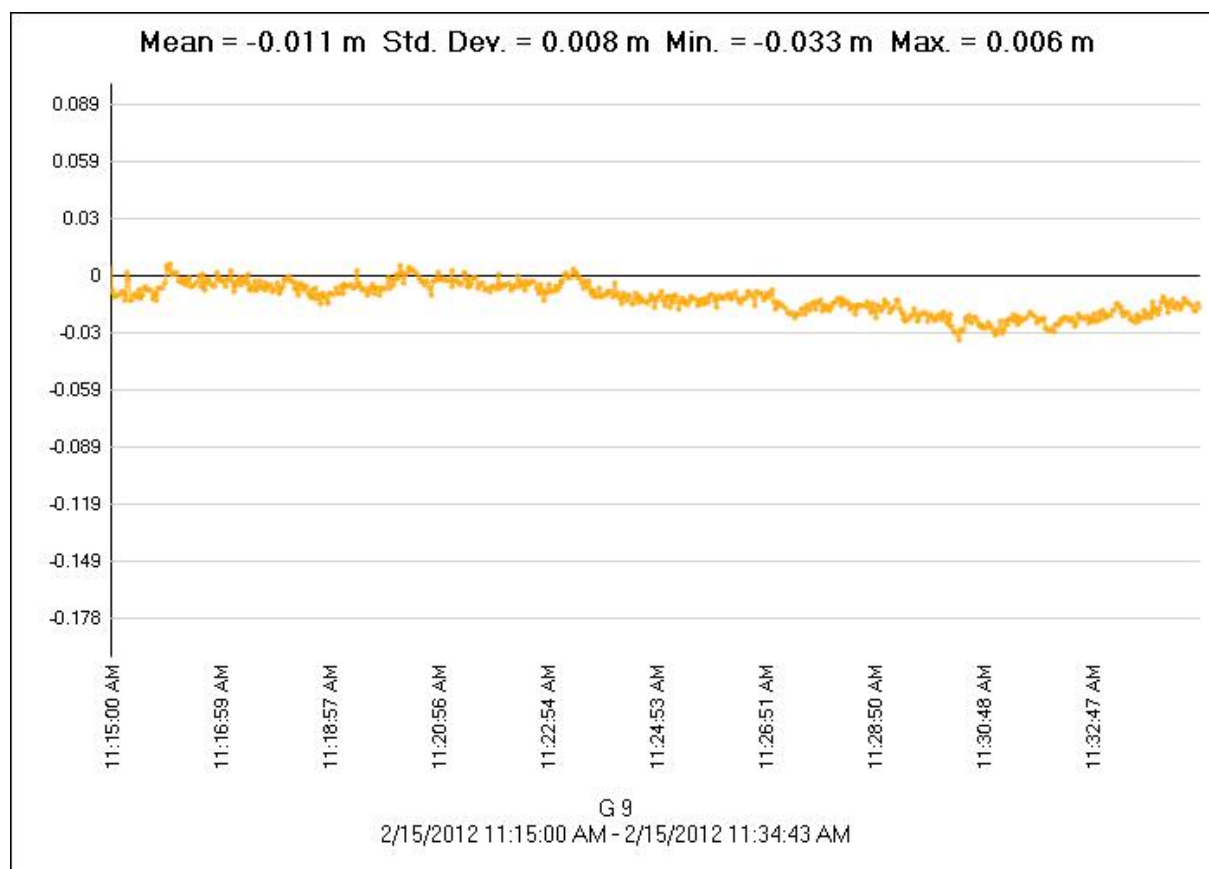
	From	To
Point ID:	JH0456	FVA18-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010460.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080463.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

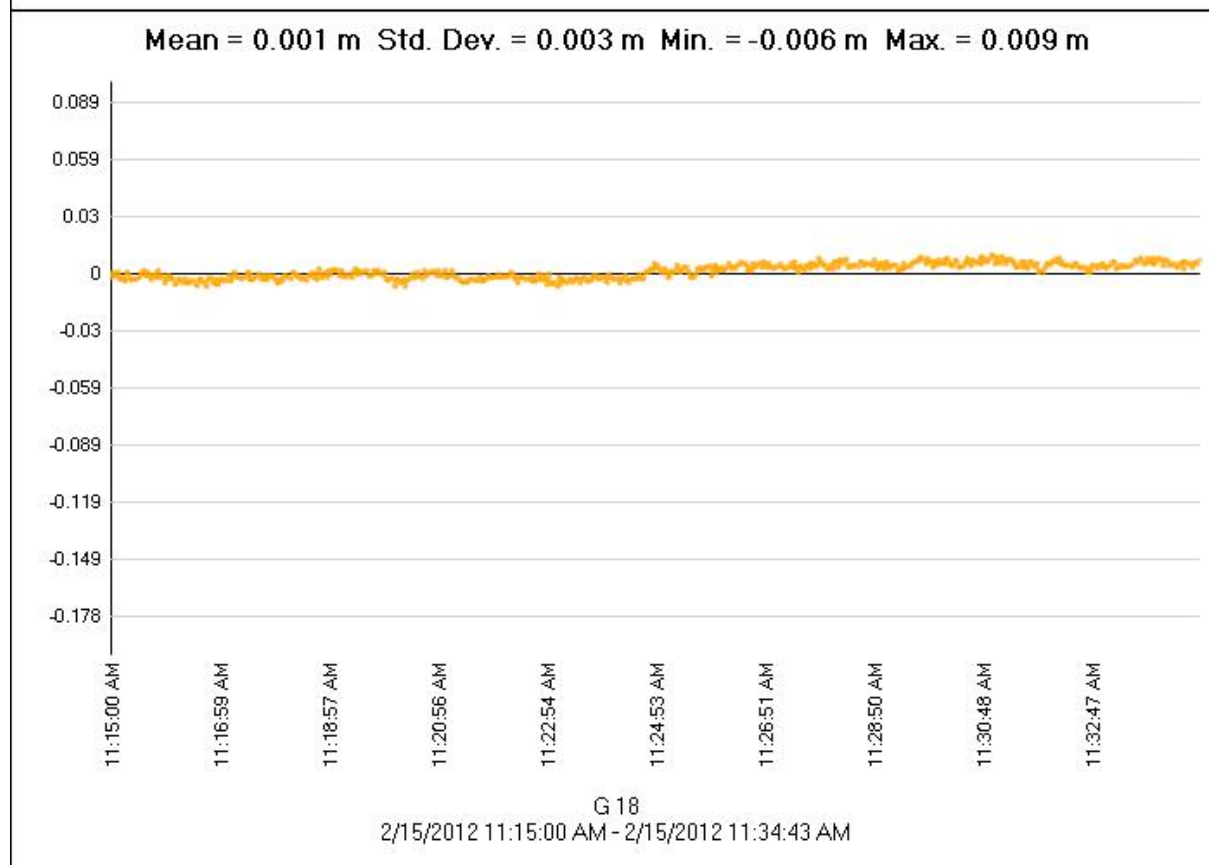
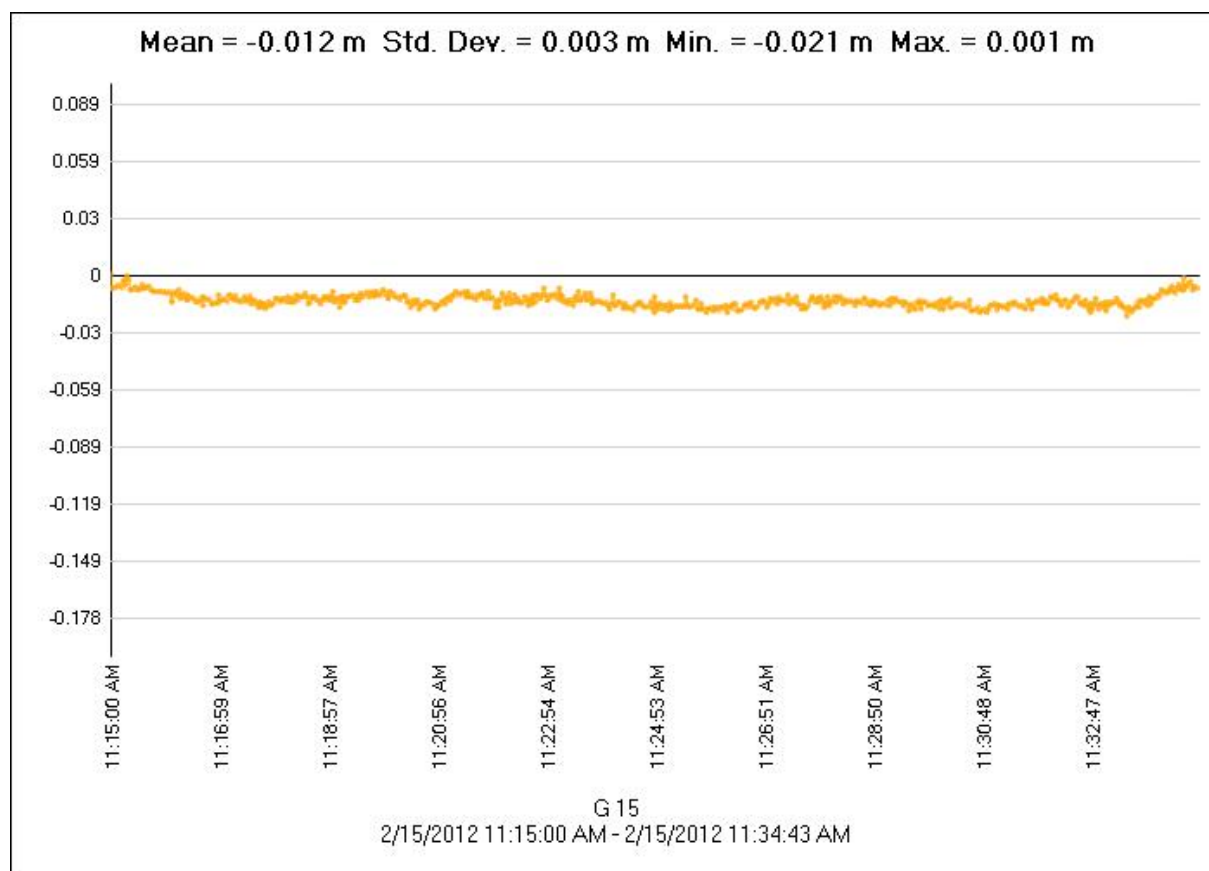
Tracking Summary

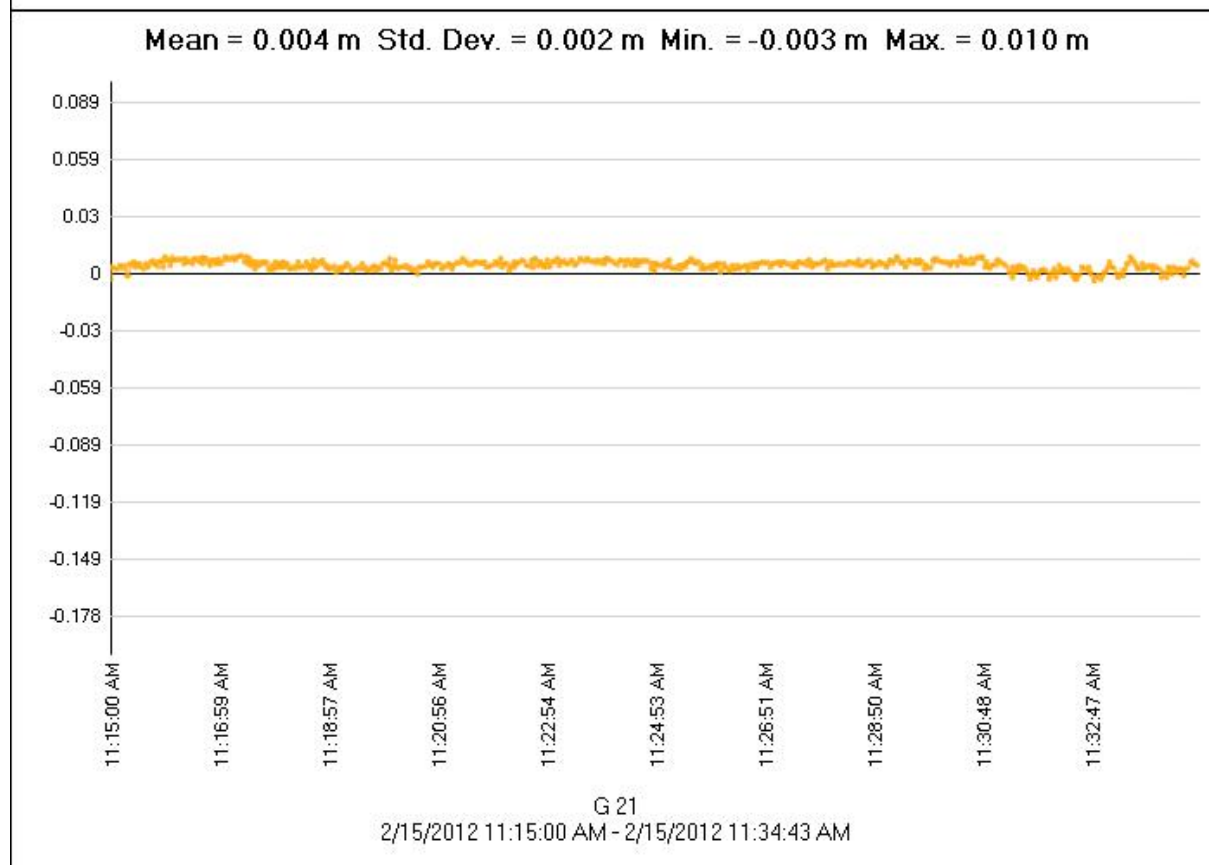
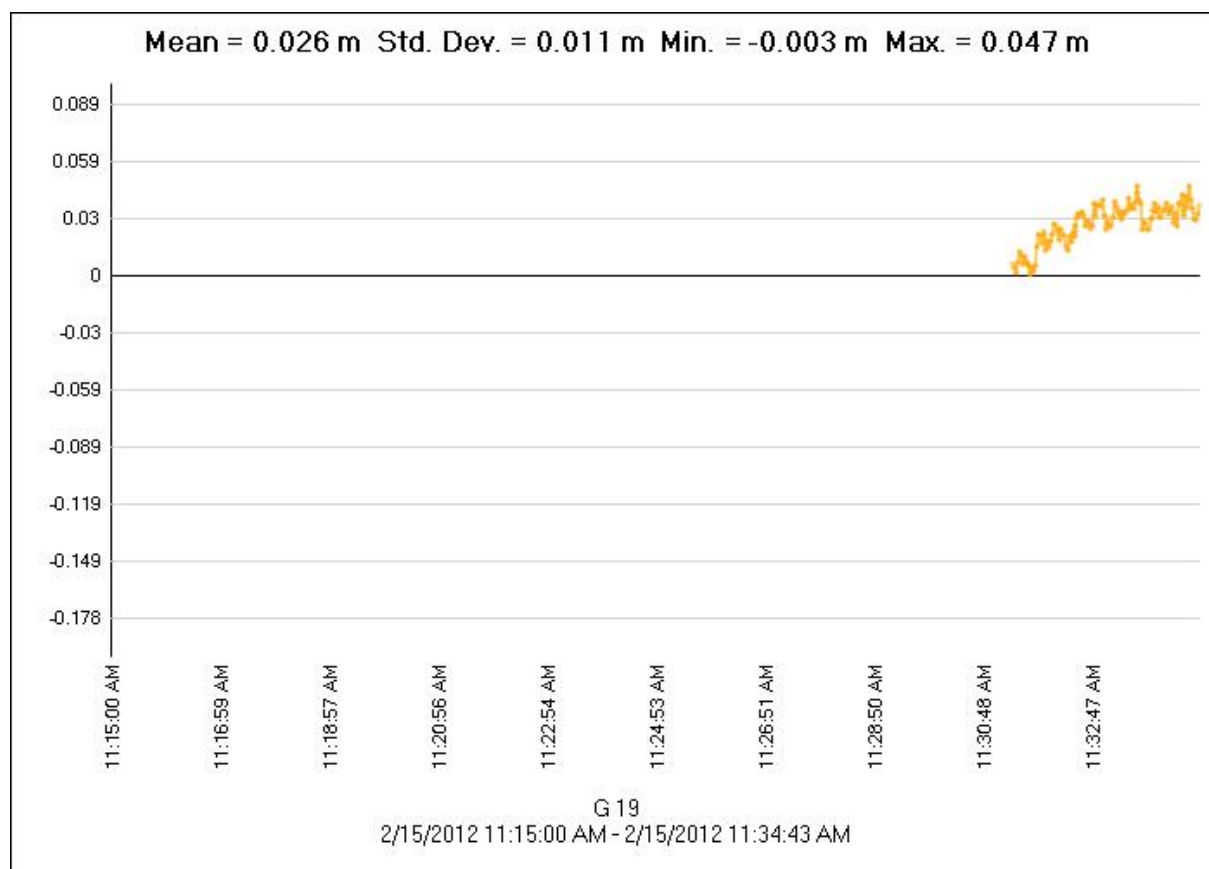
SV	2/15/2012 11:14:58 AM	Duration: 00:19:45 Major interval: 00:01:00	2/15/2012 11:34:43 AM
G 3	L1		
G 3	L2		
G 6	L1		
G 6	L2		
G 9	L1		
G 9	L2		
G 14	L1		
G 14	L2		
G 15	L1		
G 15	L2		
G 18	L1		
G 18	L2		
G 19	L1		
G 19	L2		
G 21	L1		
G 21	L2		
G 22	L1		
G 22	L2		
G 27	L1		
G 27	L2		
G 29	L1		
G 29	L2		

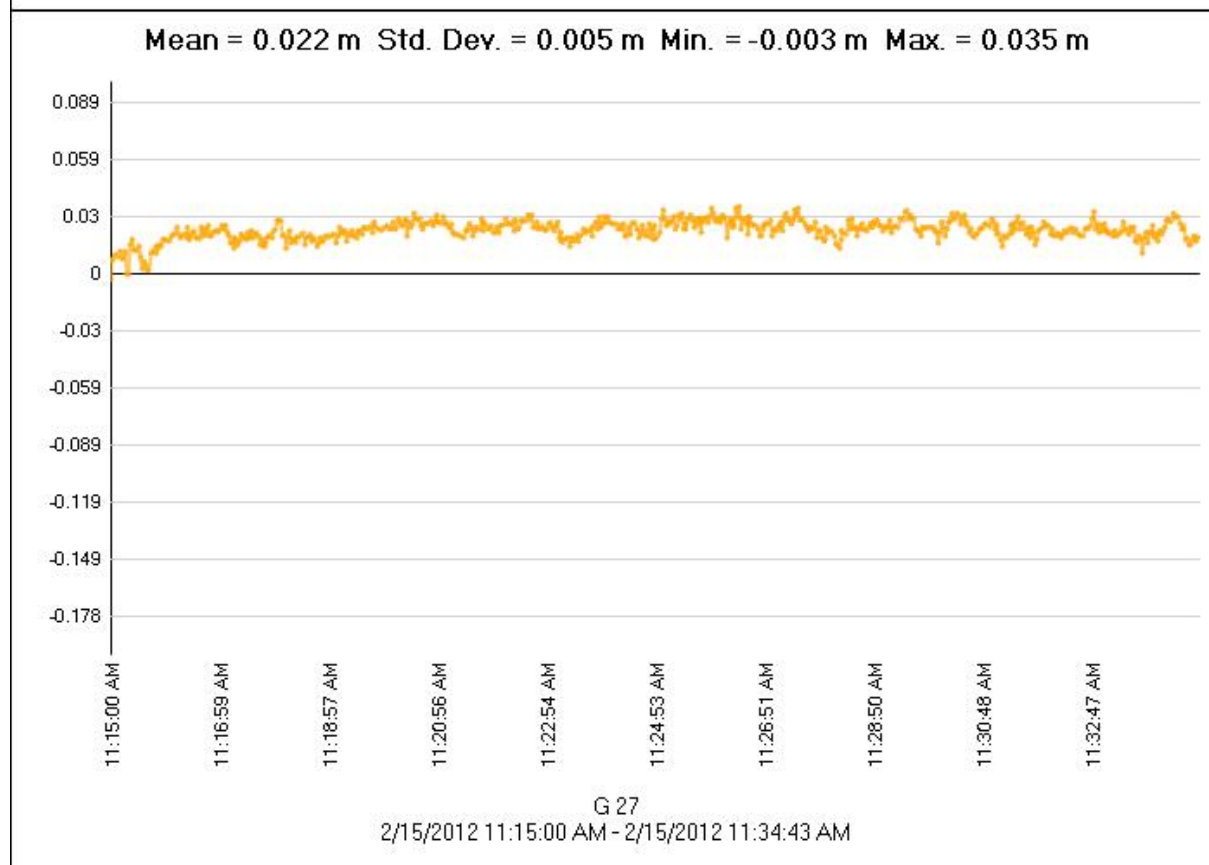
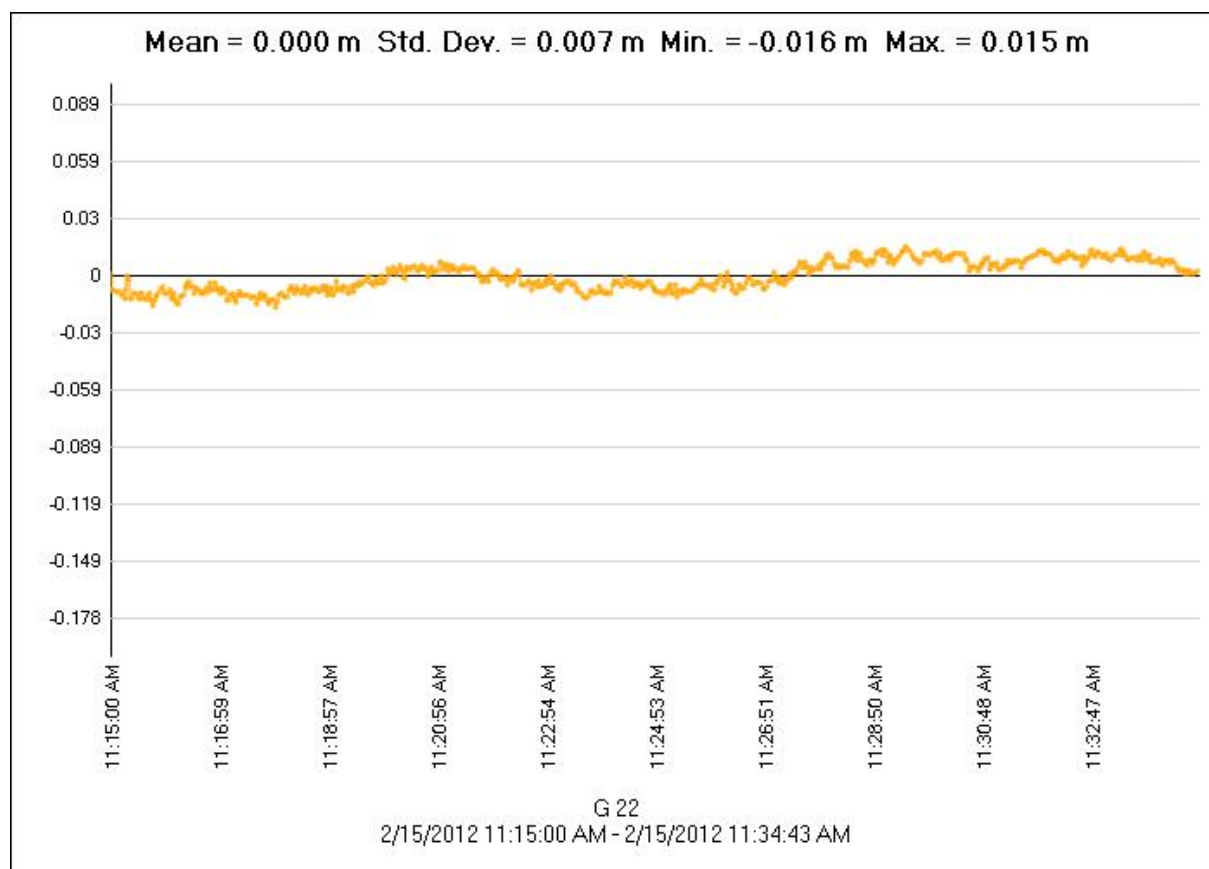
Residuals

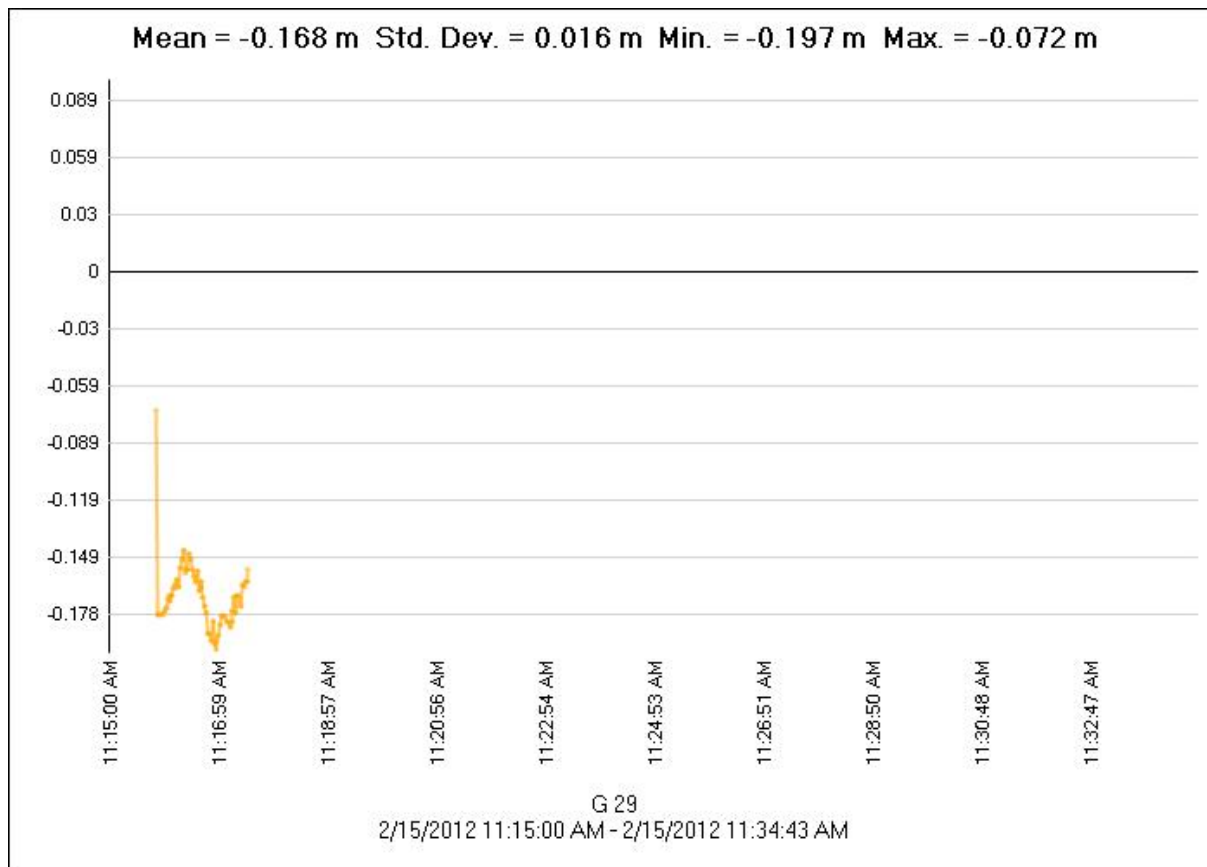














Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

Baseline observation:



JH0456 --- FVA29-B1 (B176)

Processed: 3/21/2012 3:00:11 PM
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0.105 m
 Vertical precision: 0.141 m
 RMS: 0.001 m
 Maximum PDOP: 2.546
 Ephemeris used: Broadcast
 Antenna model: US National Geodetic Survey Calibration
 Processing start time: 2/15/2012 3:26:16 PM (Local: UTC-7hr)
 Processing stop time: 2/15/2012 3:46:06 PM (Local: UTC-7hr)
 Processing duration: 00:19:50
 Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA29-B1				
Grid		Local		Global	
Easting	298786.404 m	Latitude	N38°16'44.11328"	Latitude	N38°16'44.11328"
Northing	4239265.615 m	Longitude	W101°18'01.41062"	Longitude	W101°18'01.41062"
Elevation	1003.502 m	Height	979.134 m	Height	979.134 m

Vector					
9Ughb[	-36476.901 m	NS Fwd Azimuth	238°22'15"	L	-37987.939 m
BcfA\jb[	-21449.221 m	Ellipsoid Dist.	42315.297 m	M	-6717.765 m
9Yj Uhcb	92.182 m	<Y][\h	92.732 m	N	-17403.970 m

Standard Errors

Vector errors:

Point ID:	0.042 m	Point Description:	0°00'00"	Point Type:	0.050 m
Point ID:	0.024 m	Point Description:	0.042 m	Point Type:	0.062 m
Point ID:	0.072 m	Point Description:	0.072 m	Point Type:	0.033 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0024768519		
Y	0.0021561175	0.0038968299	
Z	-0.0012282846	-0.0017749190	0.0011129976

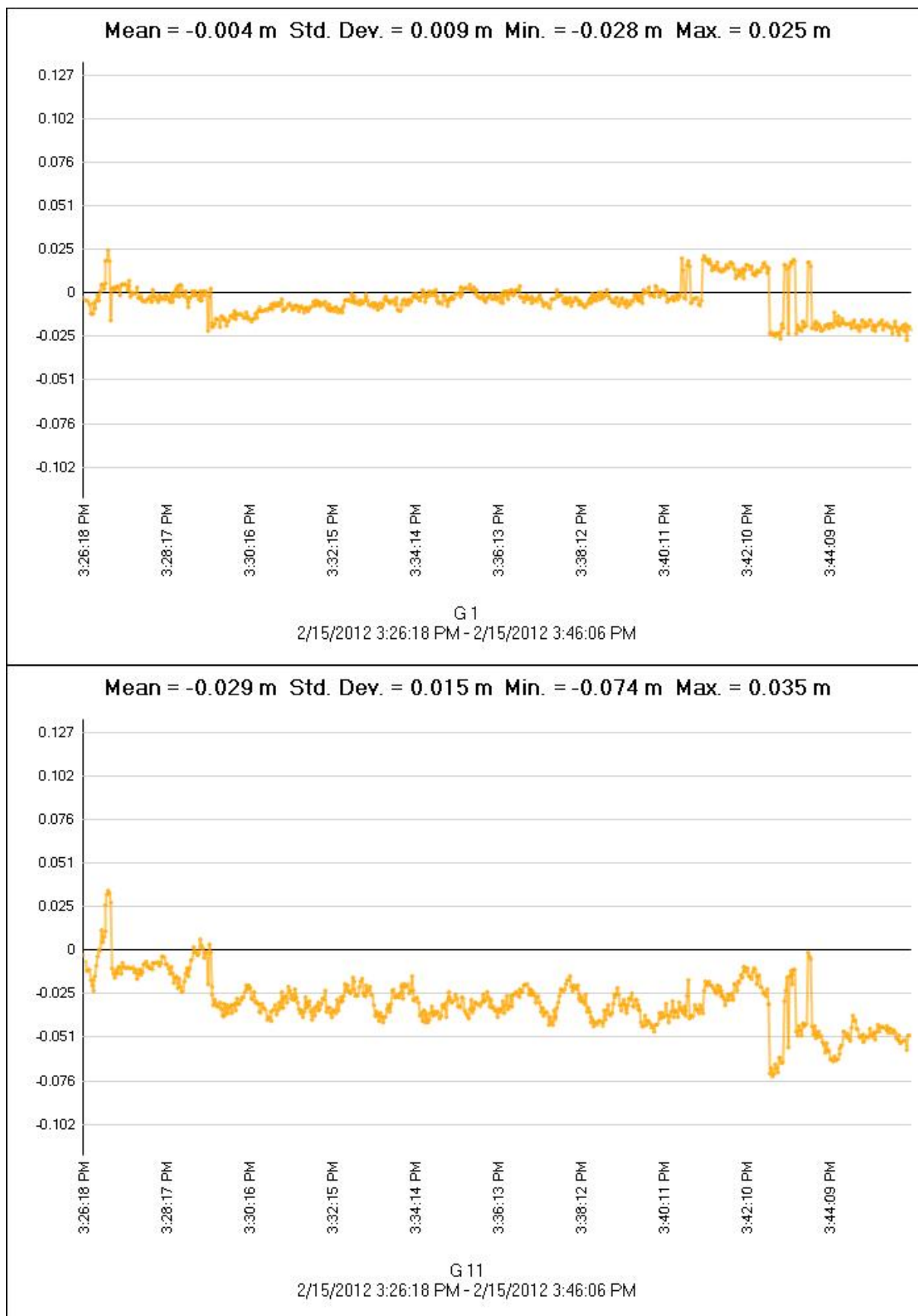
Occupations

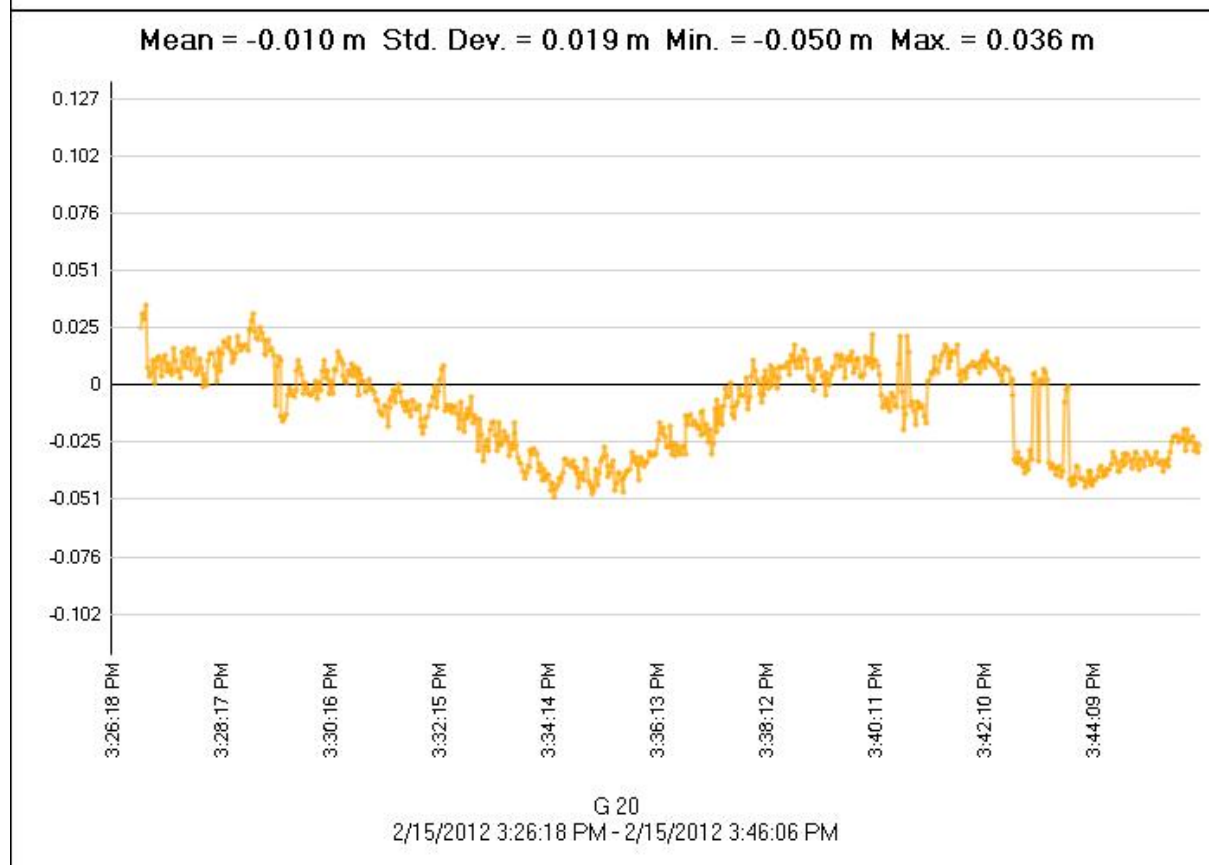
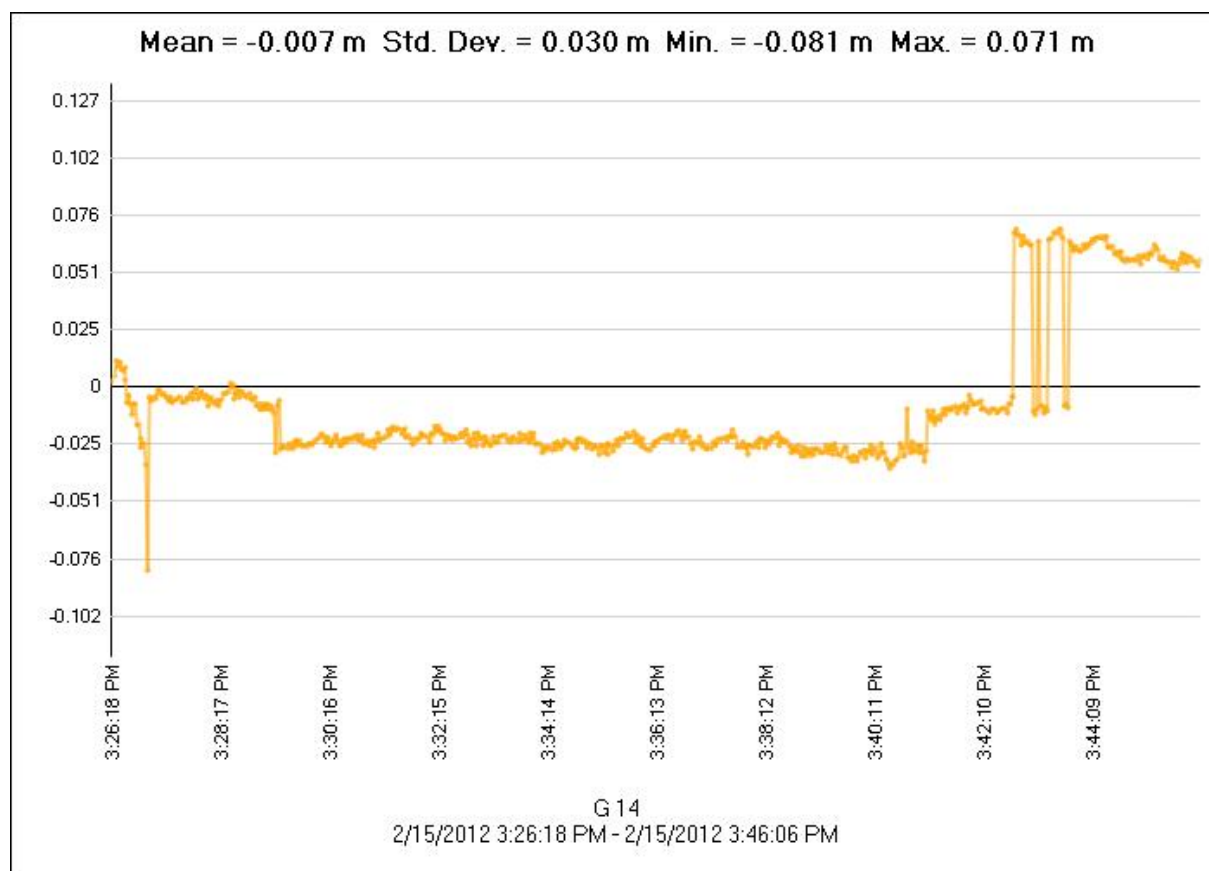
	From	To
Point ID:	JH0456	FVA29-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010461.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080465.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/15/2012 3:26:16 PM	Duration: 00:19:50 Major interval: 00:01:00	2/15/2012 3:46:06 PM
G 1			
G 11			
G 12			
G 14			
G 20			
G 22			
G 23			
G 25			
G 30			
G 31			
G 32			

Residuals





Mean = 0.017 m Std. Dev. = 0.035 m Min. = -0.077 m Max. = 0.097 m



G 22
2/15/2012 3:26:18 PM - 2/15/2012 3:46:06 PM

Mean = 0.027 m Std. Dev. = 0.034 m Min. = -0.060 m Max. = 0.135 m



G 25
2/15/2012 3:26:18 PM - 2/15/2012 3:46:06 PM

Mean = 0.002 m Std. Dev. = 0.051 m Min. = -0.119 m Max. = 0.122 m



G 30

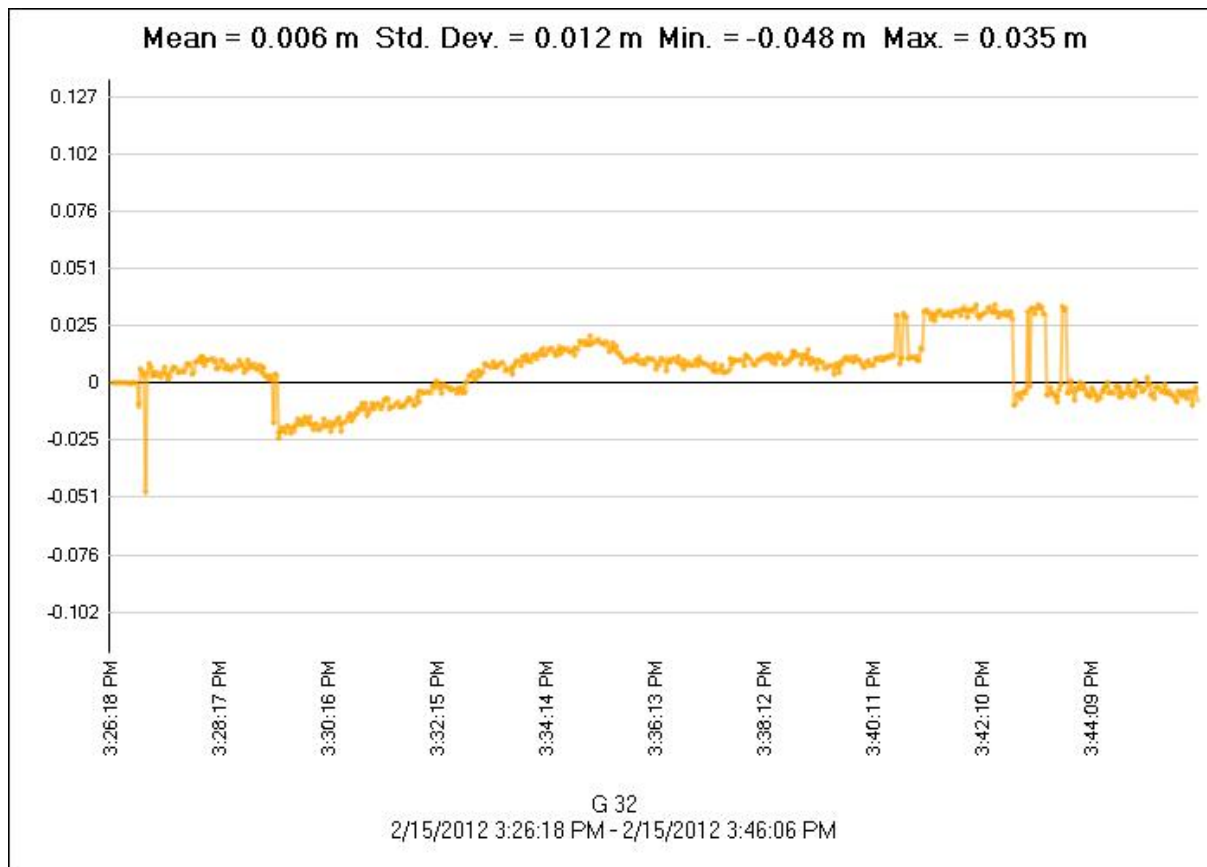
2/15/2012 3:26:18 PM - 2/15/2012 3:46:06 PM

Mean = -0.001 m Std. Dev. = 0.011 m Min. = -0.058 m Max. = 0.027 m



G 31



2/15/2012 3:26:18 PM - 2/15/2012 3:46:06 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - FVA71-B1 (2:32:54 PM-2:52:23 PM) (S177)

Baseline observation: JH0456 --- FVA71-B1 (B177)

Processed: 3/21/2012 3:00:13 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.012 m

Vertical precision: 0.023 m

RMS: 0.002 m

Maximum PDOP: 2.370

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 2:32:54 PM (Local: UTC-7hr)

Processing stop time: 2/15/2012 2:52:23 PM (Local: UTC-7hr)

Processing duration: 00:19:29

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	FVA71-B1				
Grid		Local		Global	
Easting	317576.668 m	Latitude	N38°15'51.27109"	Latitude	N38°15'51.27108"
Northing	4237190.105 m	Longitude	W101°05'06.62638"	Longitude	W101°05'06.62638"
Elevation	942.621 m	Height	917.953 m	Height	917.953 m

Vector					
9Ughb[	-17686.637 m	NS Fwd Azimuth	215°45'52"	L	-19696.832 m
BcfA\jb[	-23524.732 m	Ellipsoid Dist.	29432.630 m	M	-11317.050 m
9`Yj Uhcb	31.301 m	<Y][\h	31.551 m	N	-18721.212 m

Standard Errors

Vector errors:					
Point ID	0.005 m	Point ID	0°00'00"	Point ID	0.006 m
Point ID	0.004 m	Point ID	0.004 m	Point ID	0.009 m
Point ID	0.012 m	Point ID	0.012 m	Point ID	0.008 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000355000		
Y	0.0000413864	0.0000742790	
Z	-0.0000313829	-0.0000568078	0.0000648719

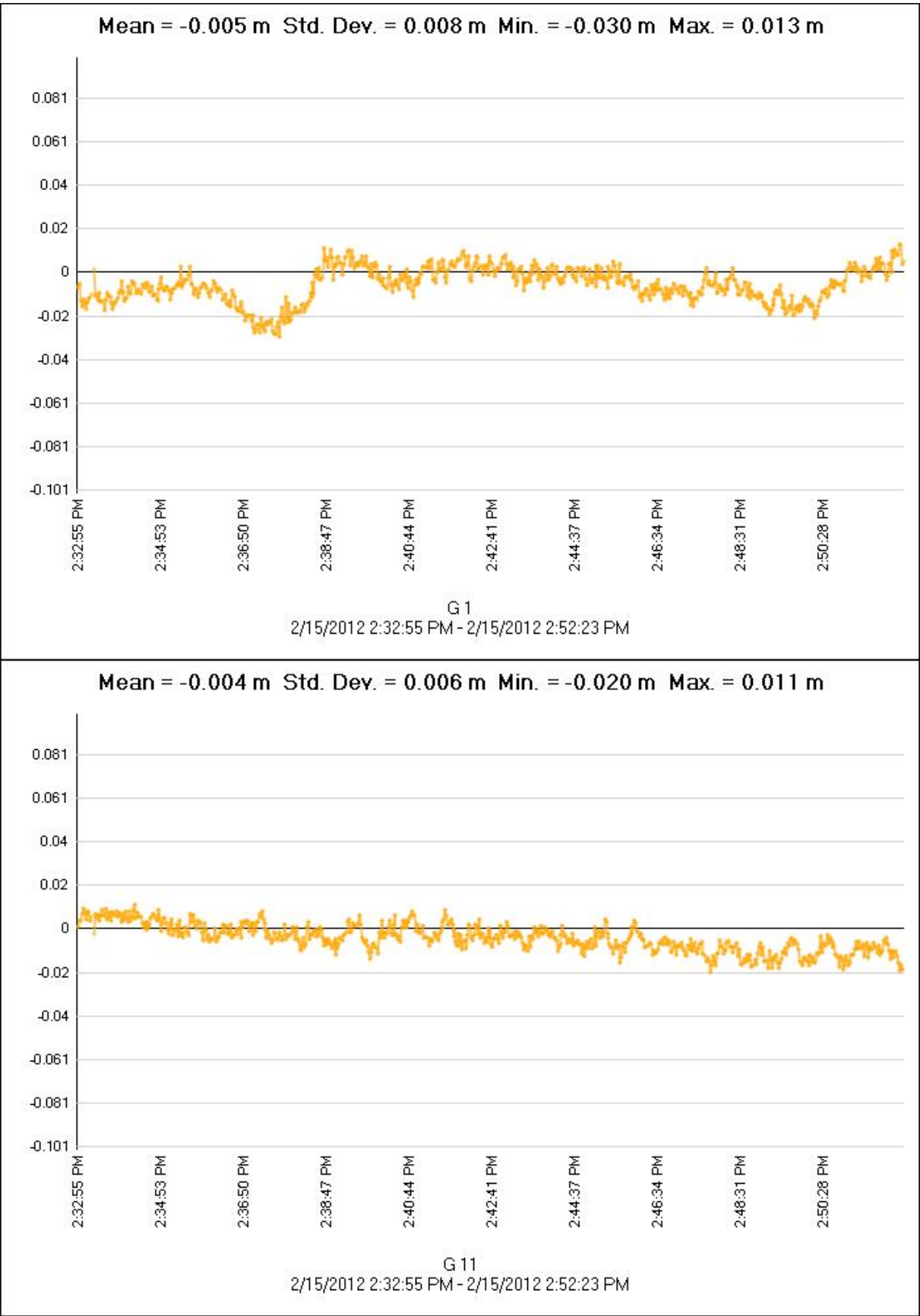
Occupations

	From	To
Point ID:	JH0456	FVA71-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010461.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080464.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

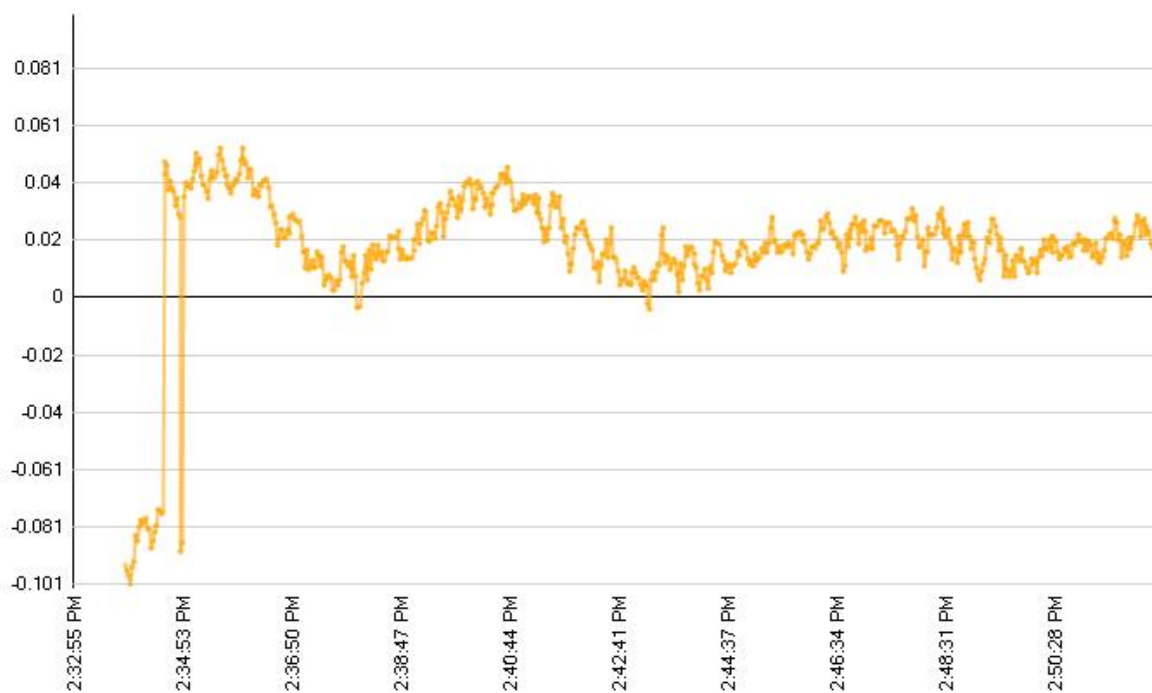
Tracking Summary

SV	2/15/2012 2:32:54 PM										Duration: 00:19:29 Major interval: 00:01:00										2/15/2012 2:52:23 PM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Residuals



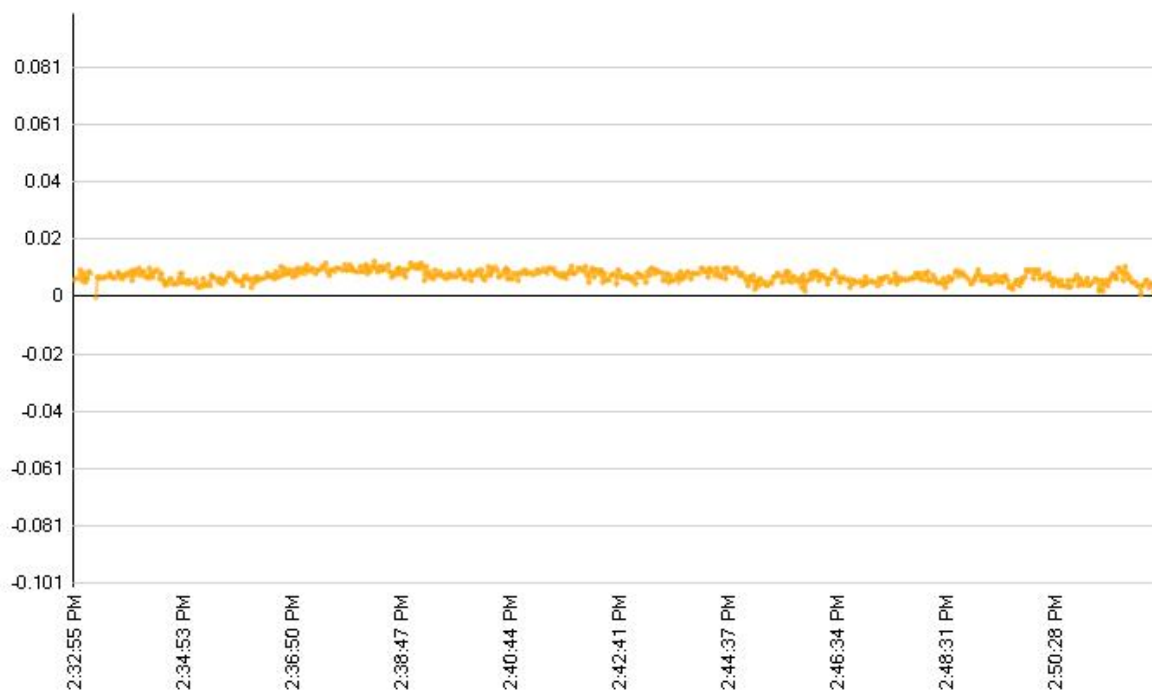
Mean = 0.017 m Std. Dev. = 0.023 m Min. = -0.102 m Max. = 0.053 m



G 12

2/15/2012 2:32:55 PM - 2/15/2012 2:52:23 PM

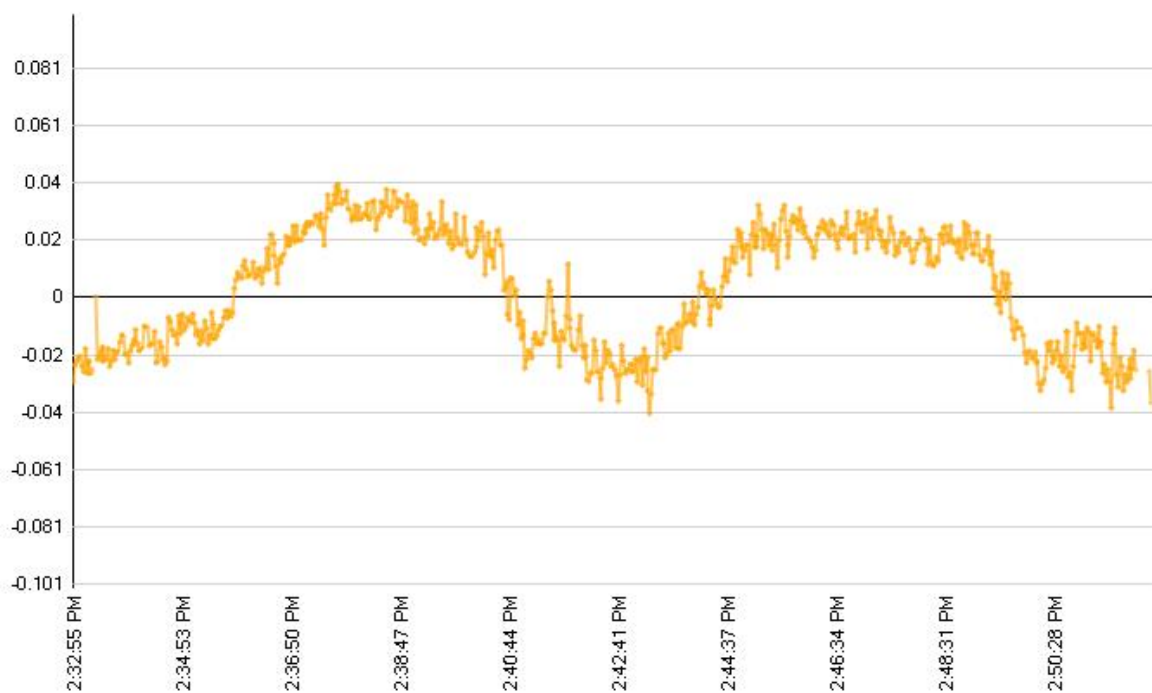
Mean = 0.007 m Std. Dev. = 0.002 m Min. = 0.000 m Max. = 0.013 m



G 14

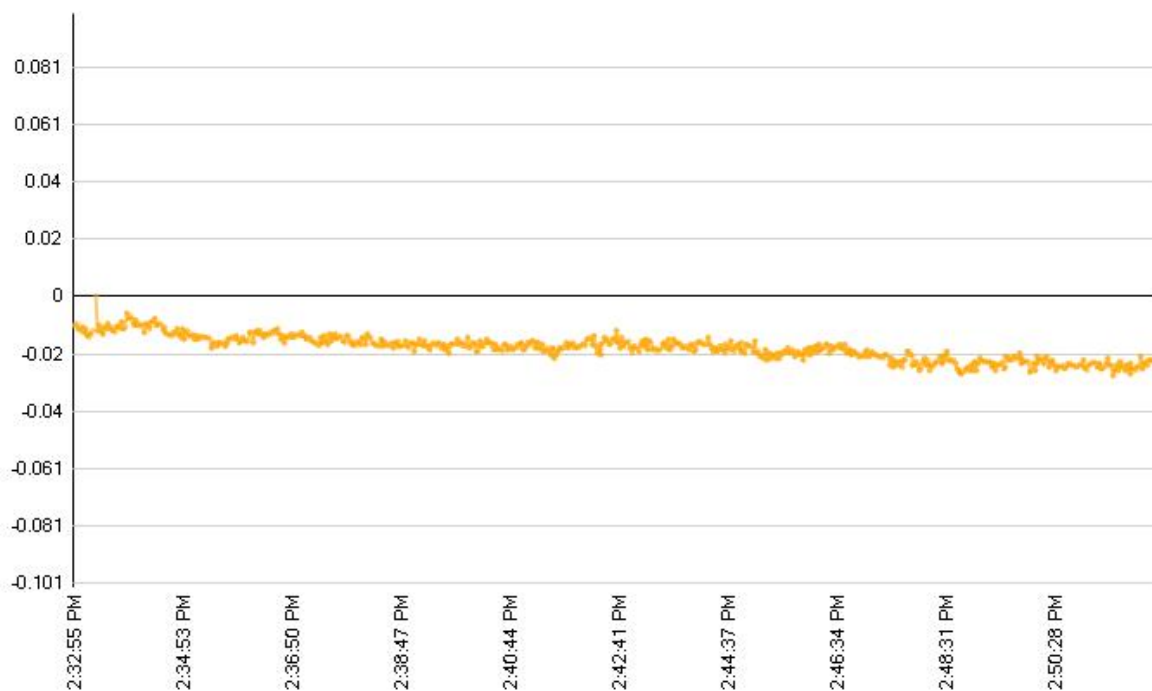
2/15/2012 2:32:55 PM - 2/15/2012 2:52:23 PM

Mean = 0.004 m Std. Dev. = 0.019 m Min. = -0.040 m Max. = 0.040 m



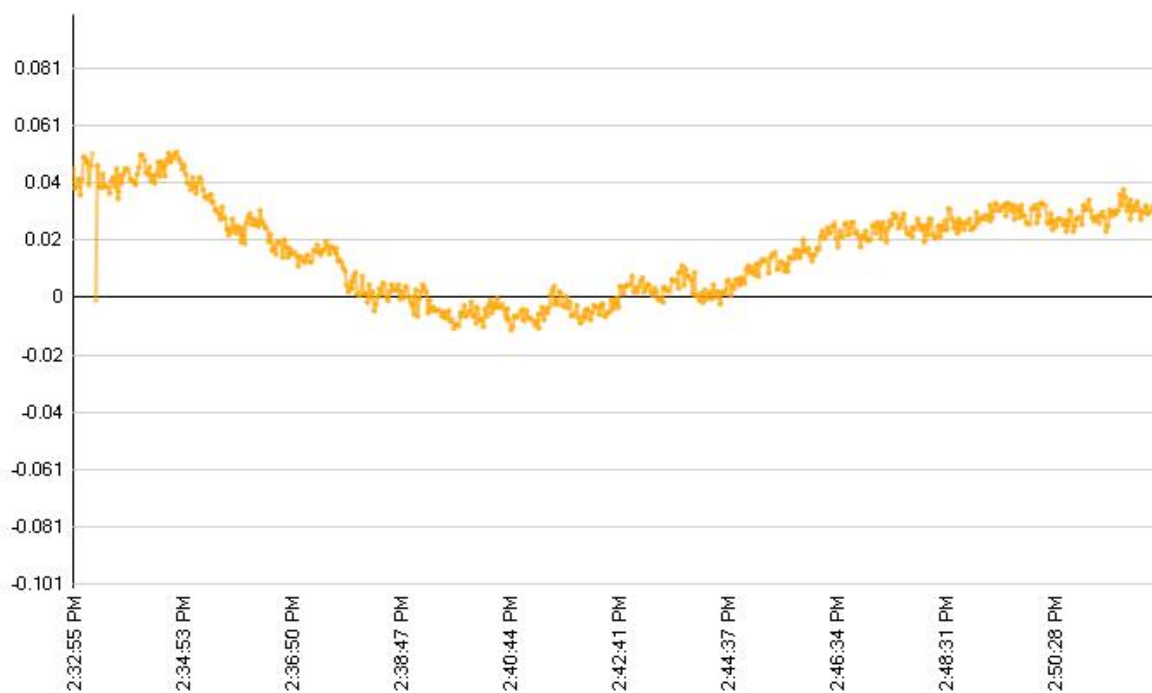
G 18
2/15/2012 2:32:55 PM - 2/15/2012 2:52:23 PM

Mean = -0.018 m Std. Dev. = 0.004 m Min. = -0.028 m Max. = 0.000 m



G 22
2/15/2012 2:32:55 PM - 2/15/2012 2:52:23 PM

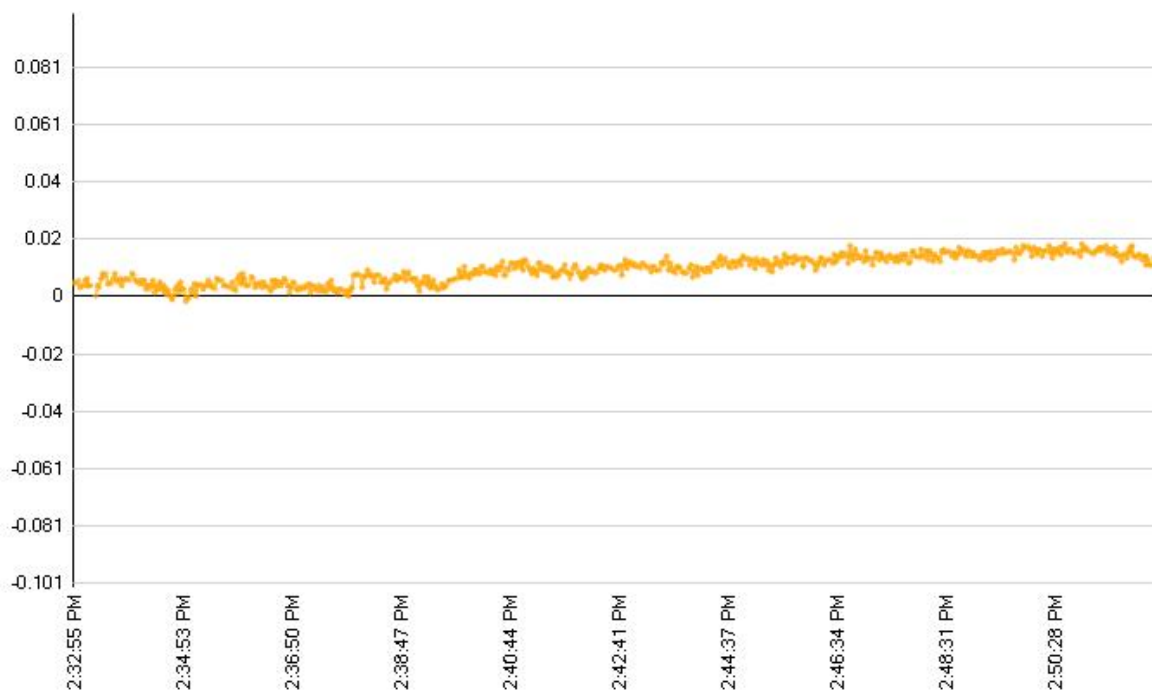
Mean = 0.017 m Std. Dev. = 0.016 m Min. = -0.011 m Max. = 0.051 m



G 25

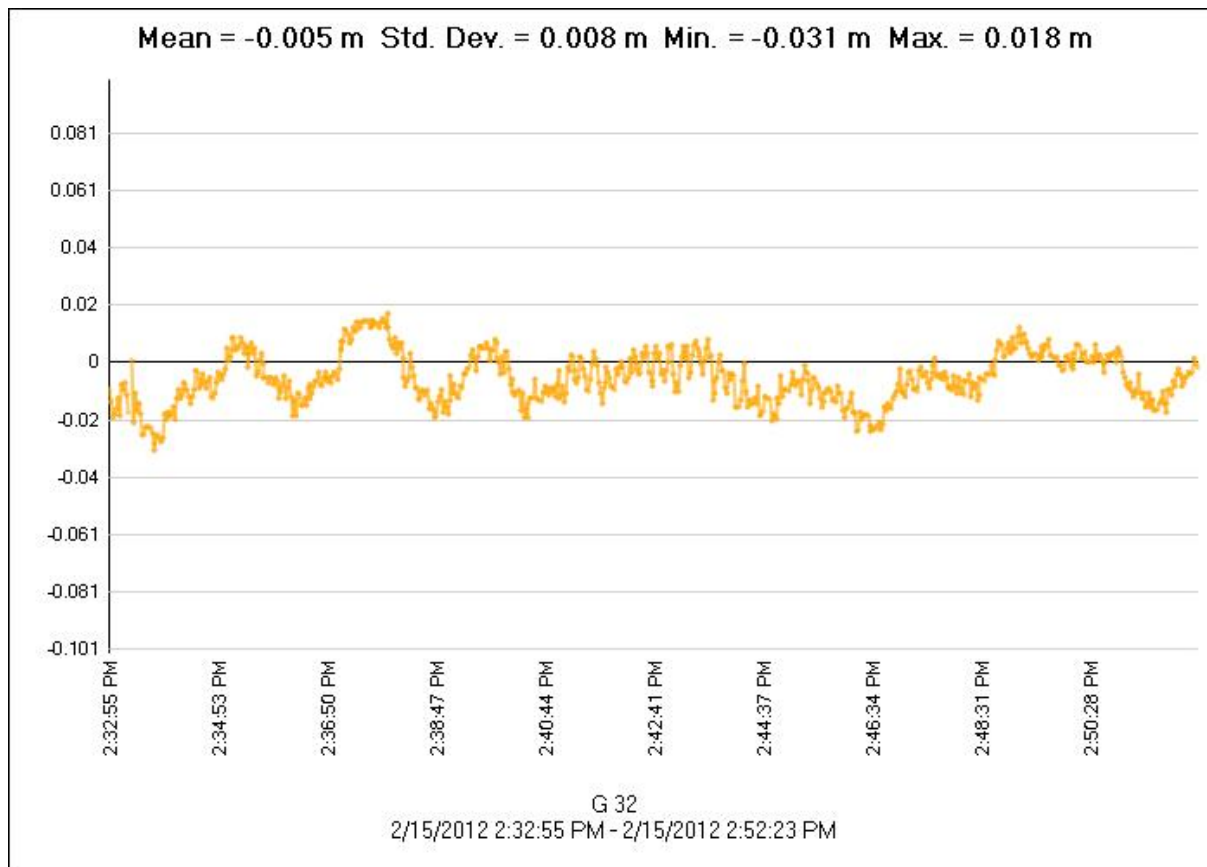
2/15/2012 2:32:55 PM - 2/15/2012 2:52:23 PM

Mean = 0.009 m Std. Dev. = 0.005 m Min. = -0.002 m Max. = 0.019 m



G 31

2/15/2012 2:32:55 PM - 2/15/2012 2:52:23 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA48-B2 (8:44:24 AM-9:03:34 AM) (S179)

Baseline observation: JH0456 --- SVA48-B2 (B179)

Processed: 3/21/2012 2:59:31 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.022 m

Vertical precision: 0.036 m

RMS: 0.001 m

Maximum PDOP: 2.751

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 8:44:24 AM (Local: UTC-7hr)

Processing stop time: 2/15/2012 9:03:34 AM (Local: UTC-7hr)

Processing duration: 00:19:10

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA48-B2				
Grid		Local		Global	
Easting	372074.474 m	Latitude	N38°24'59.62529"	Latitude	N38°24'59.62528"
Northing	4253051.749 m	Longitude	W100°27'55.24540"	Longitude	W100°27'55.24540"
Elevation	862.724 m	Height	837.312 m	Height	837.312 m

Vector					
9Ughb[	36811.170 m	NS Fwd Azimuth	100°35'06"	L	35516.129 m
Bcfh\jb[	-7663.088 m	Ellipsoid Dist.	37605.408 m	M	-11082.228 m
9`Yj Uhcb	-48.596 m	<Y][\h	-49.091 m	N	-5507.778 m

Standard Errors

Vector errors:					
Ughb[	0.009 m	BG`Zk X'5n]a i h	0°00'00"	L	0.010 m
Bcfh\]b[	0.007 m	'9~]dgc]X'8]gh	0.009 m	M	0.014 m
'9`Yj Uhcb	0.018 m	' <Y][\h	0.018 m	N	0.013 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000983165		
Y	0.0000692990	0.0002050247	
Z	-0.0000694699	-0.0001290736	0.0001680731

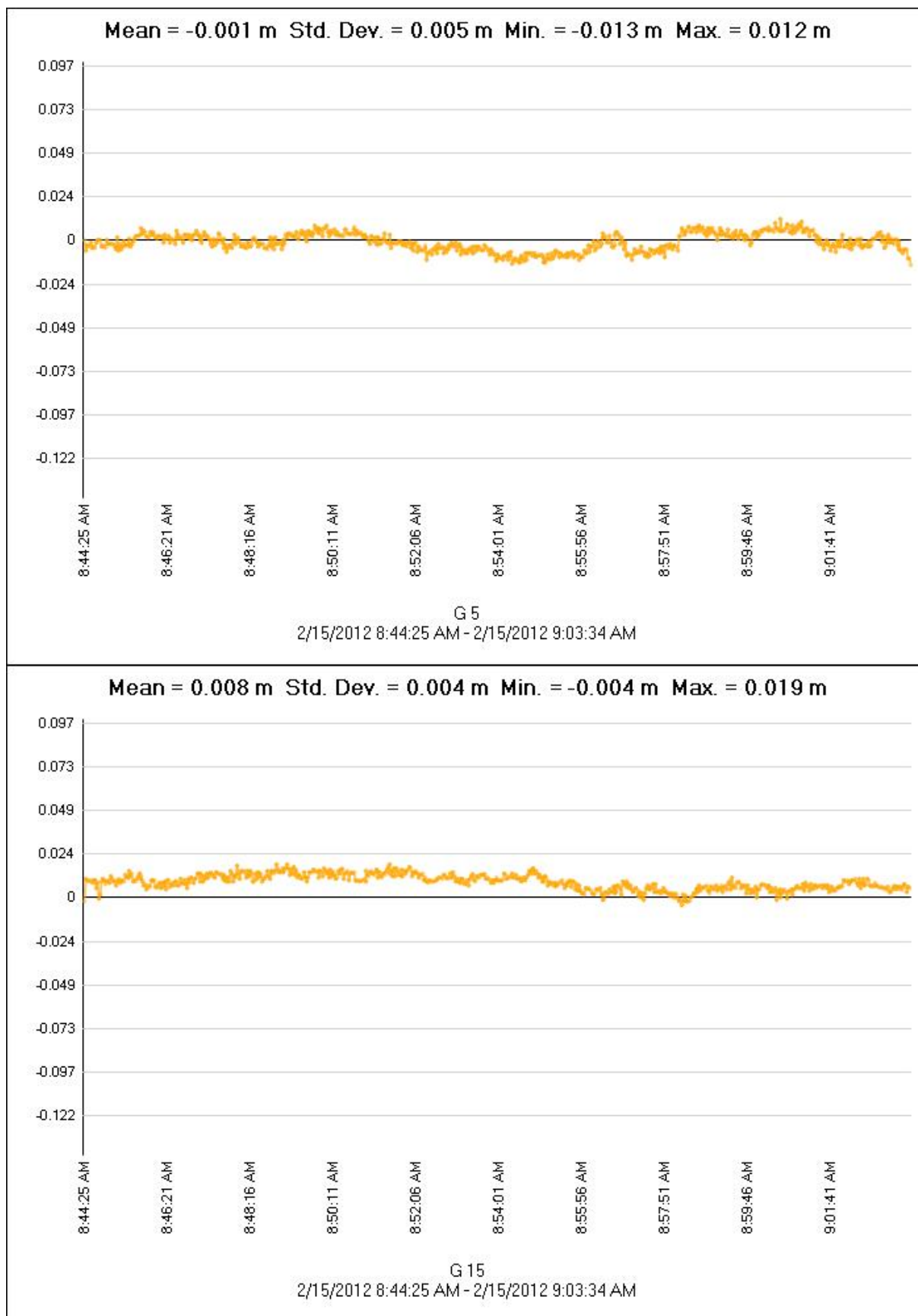
Occupations

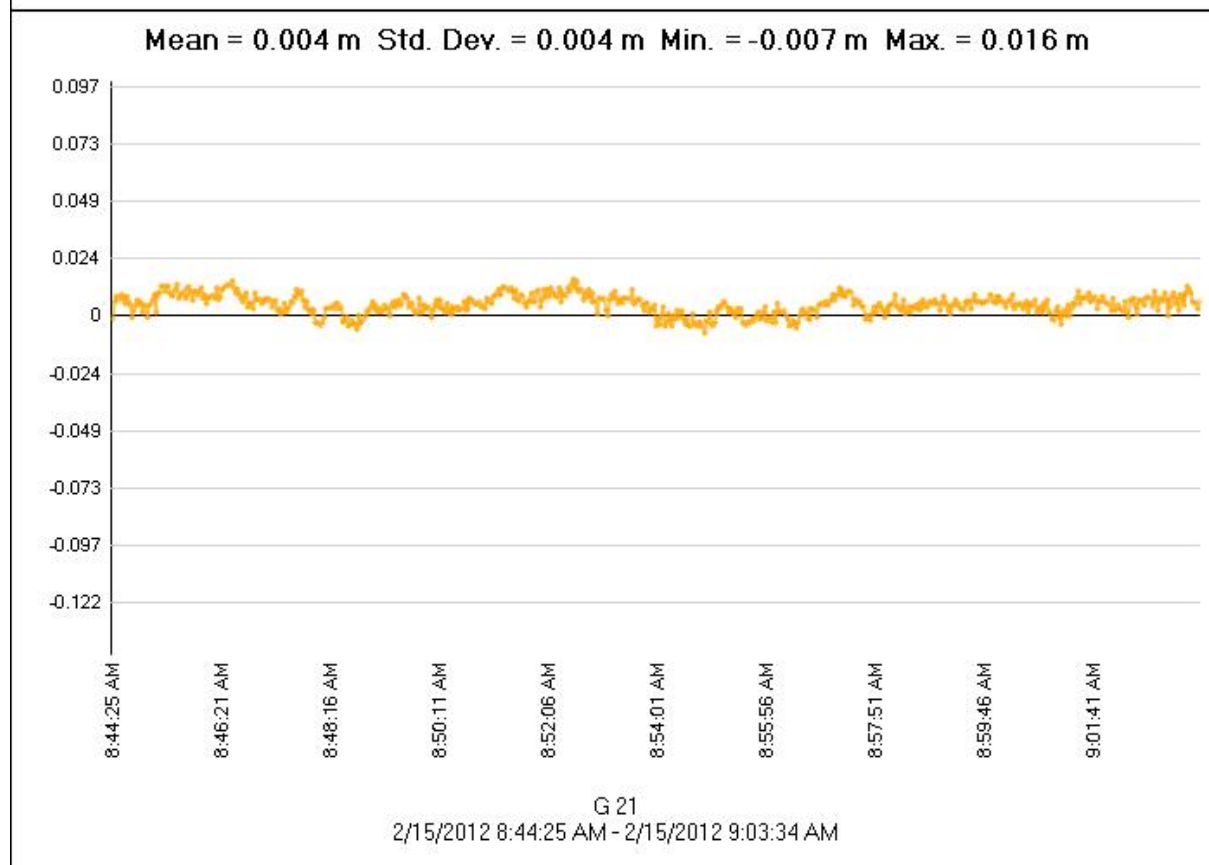
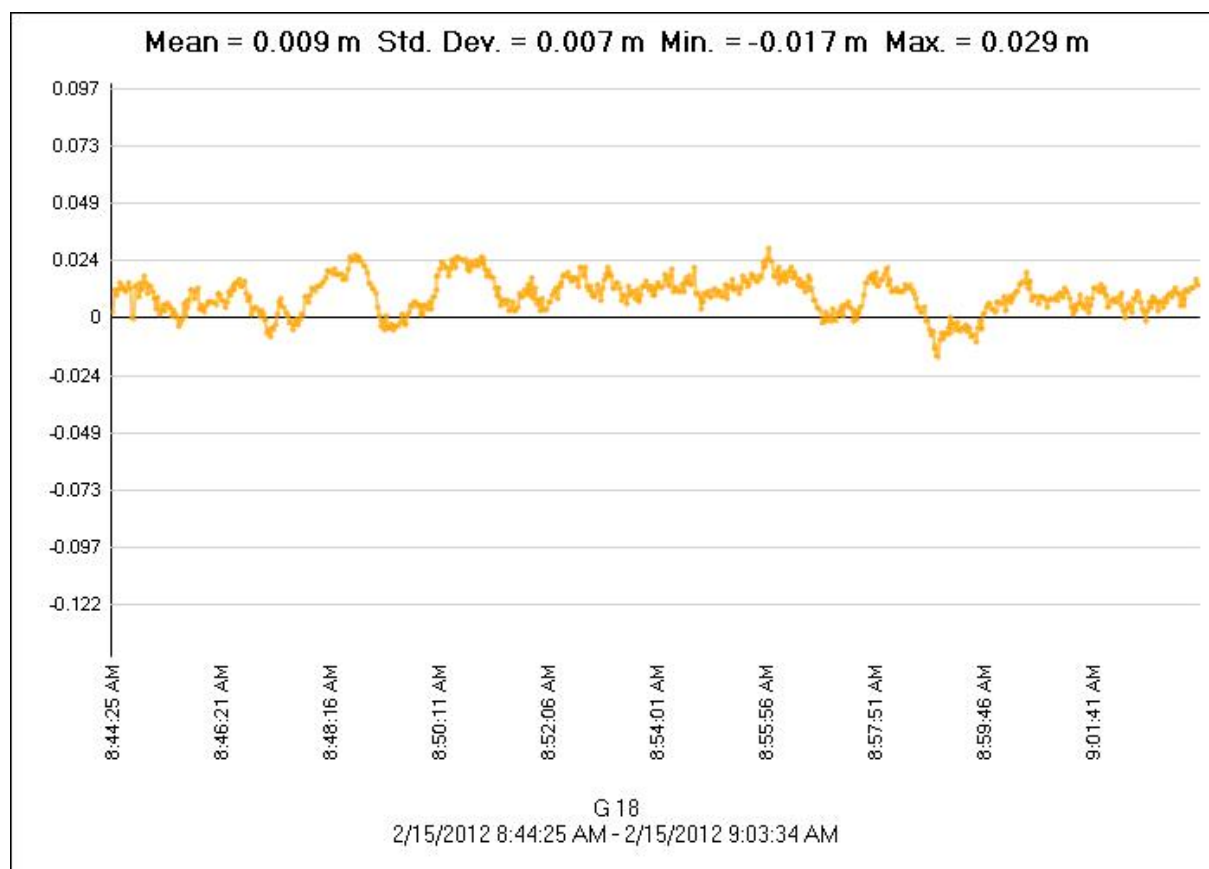
	From	To
Point ID:	JH0456	SVA48-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010460.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00040460.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

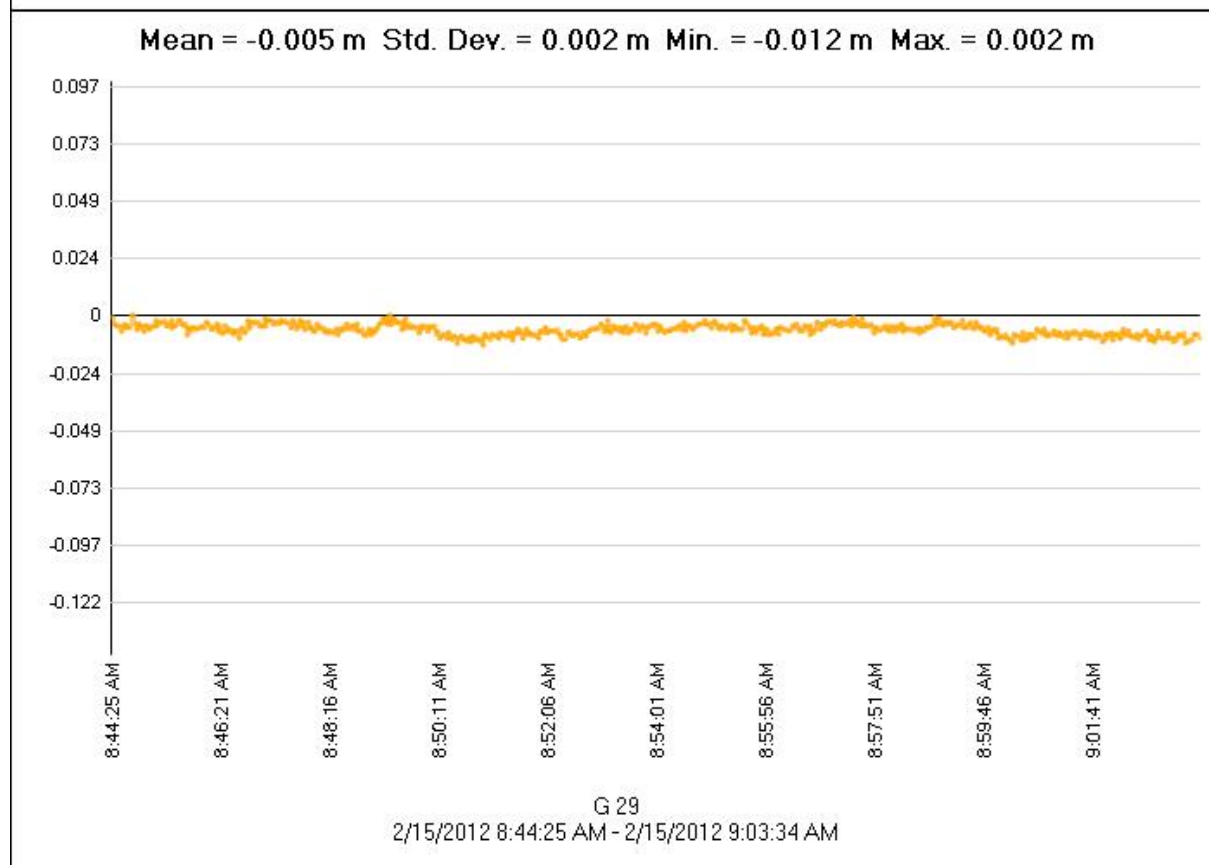
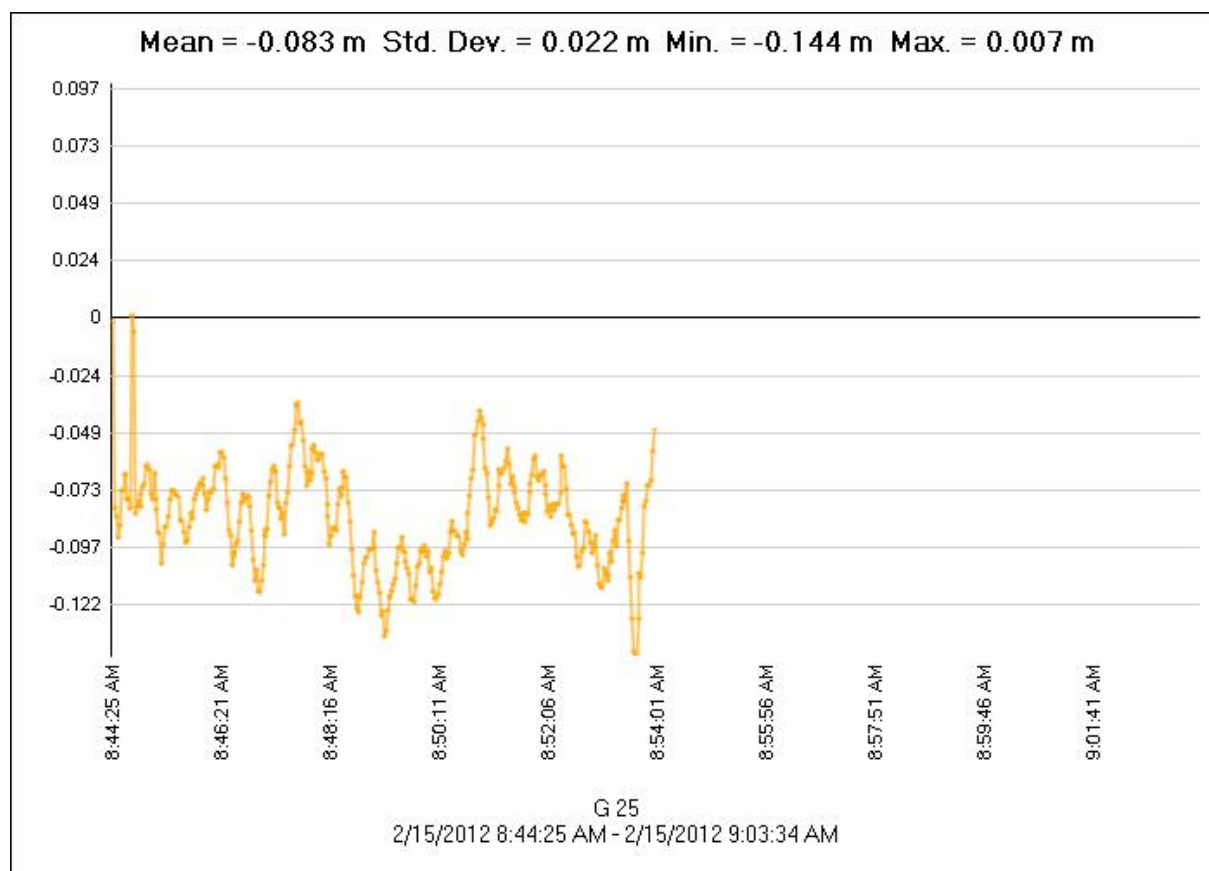
Tracking Summary

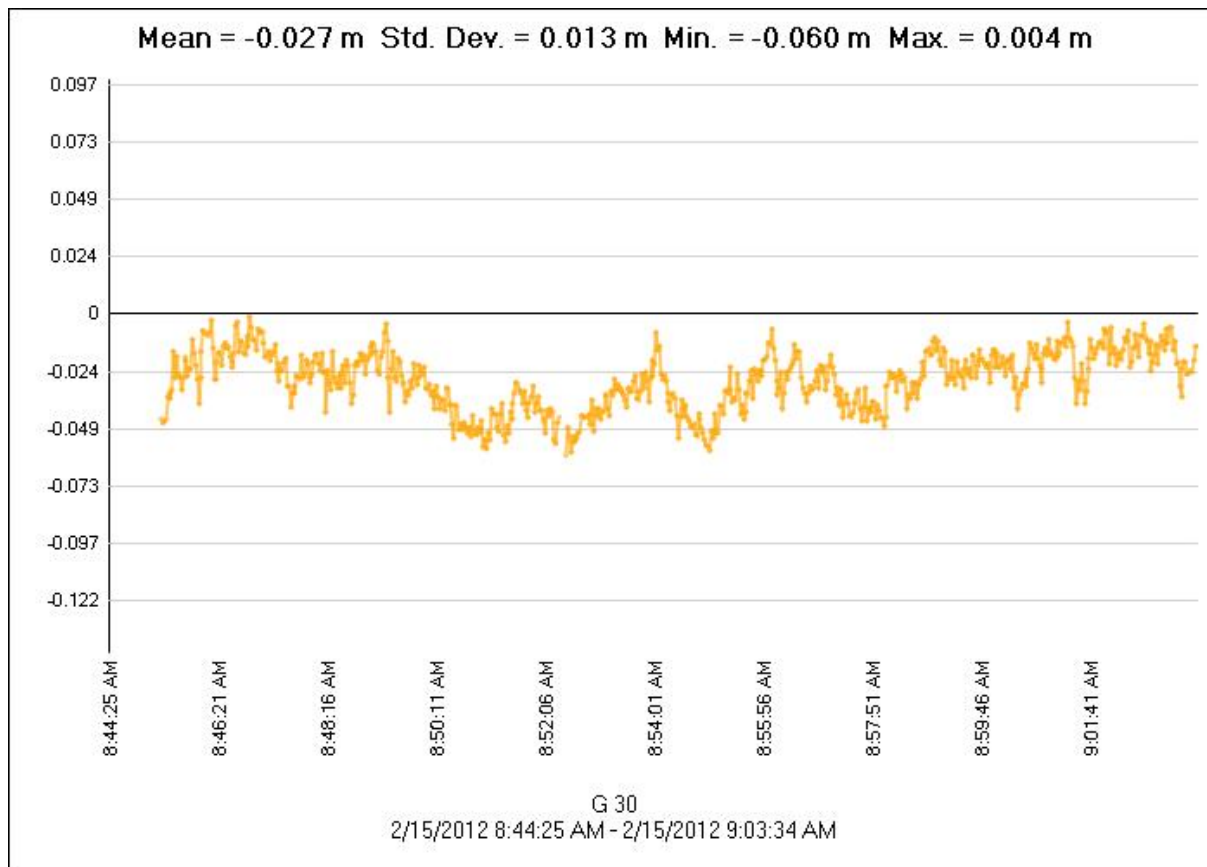
SV	2/15/2012 8:44:24 AM		Duration: 00:19:10 Major interval: 00:01:00		2/15/2012 9:03:34 AM	
	L1	L2				
G 2	L1	L2				
G 5	L1	L2				
G 15	L1	L2				
G 16	L1	L2				
G 18	L1	L2				
G 21	L1	L2				
G 25	L1	L2				
G 29	L1	L2				
G 30	L1	L2				

Residuals









Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA20-B2 (9:35:01 AM-9:54:50 AM) (S181)

Baseline observation: JH0456 --- SVA20-B2 (B181)

Processed: 3/21/2012 2:59:47 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.036 m

Vertical precision: 0.107 m

RMS: 0.002 m

Maximum PDOP: 4.294

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 9:35:01 AM (Local: UTC-7hr)

Processing stop time: 2/15/2012 9:54:50 AM (Local: UTC-7hr)

Processing duration: 00:19:49

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA20-B2				
Grid		Local		Global	
Easting	383200.071 m	Latitude	N38°30'34.92958"	Latitude	N38°30'34.92958"
Northing	4263220.331 m	Longitude	W100°20'22.68028"	Longitude	W100°20'22.68028"
Elevation	834.028 m	Height	808.513 m	Height	808.513 m

Vector					
9Ughb[	47936.767 m	NS Fwd Azimuth	85°49'57"	L	47474.429 m
BcfA\jb[	2505.494 m	Ellipsoid Dist.	48009.574 m	M	-6715.292 m
9`Yj U\jcb	-77.291 m	<Y][\h	-77.890 m	N	2570.912 m

Standard Errors

Vector errors:					
Point ID	0.011 m	Point ID	0°00'00"	Point ID	0.017 m
Point ID	0.013 m	Point ID	0.011 m	Point ID	0.044 m
Point ID	0.054 m	Point ID	0.054 m	Point ID	0.032 m




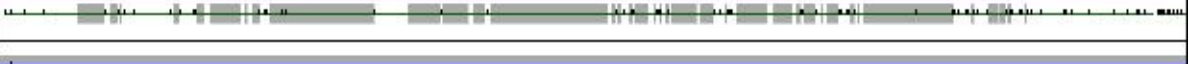
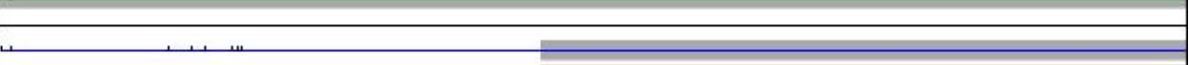
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0002851449		
Y	0.0006280934	0.0019308211	
Z	-0.0003628640	-0.0012689948	0.0010219791

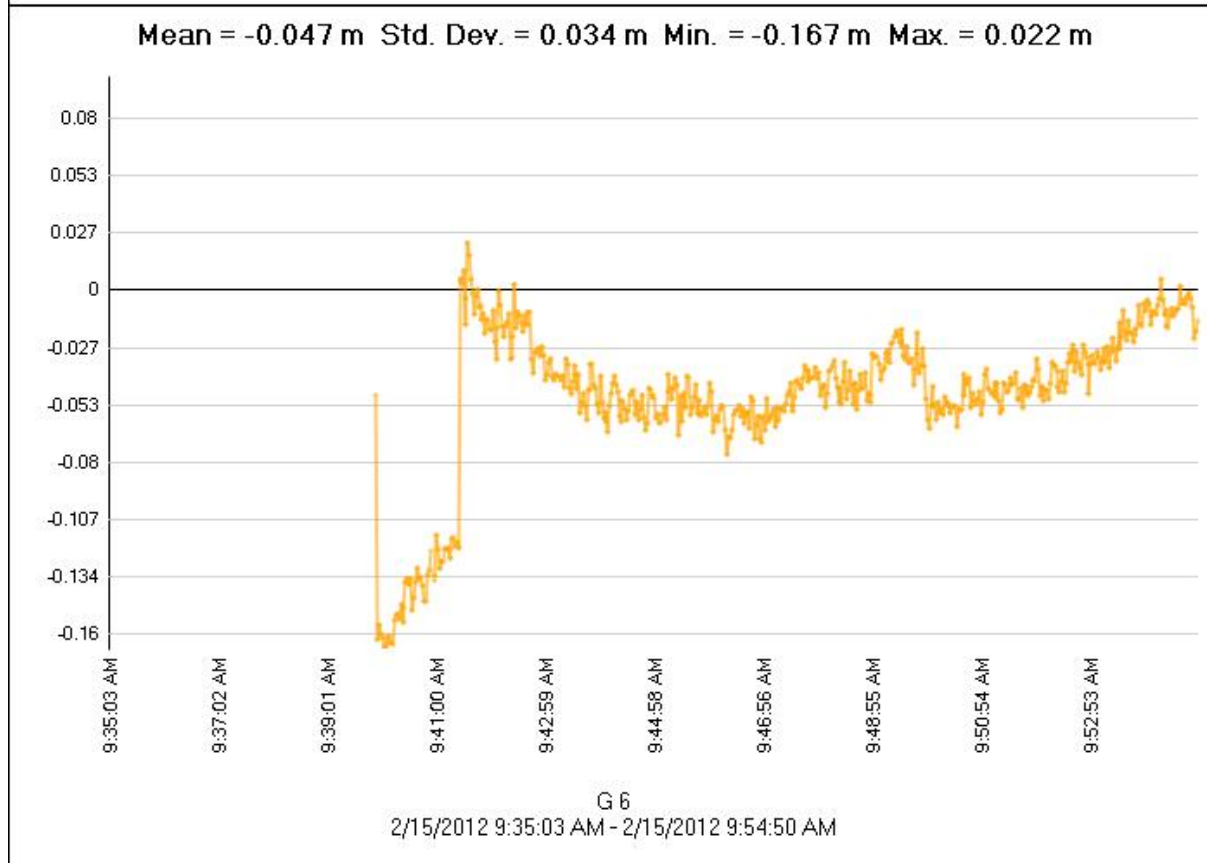
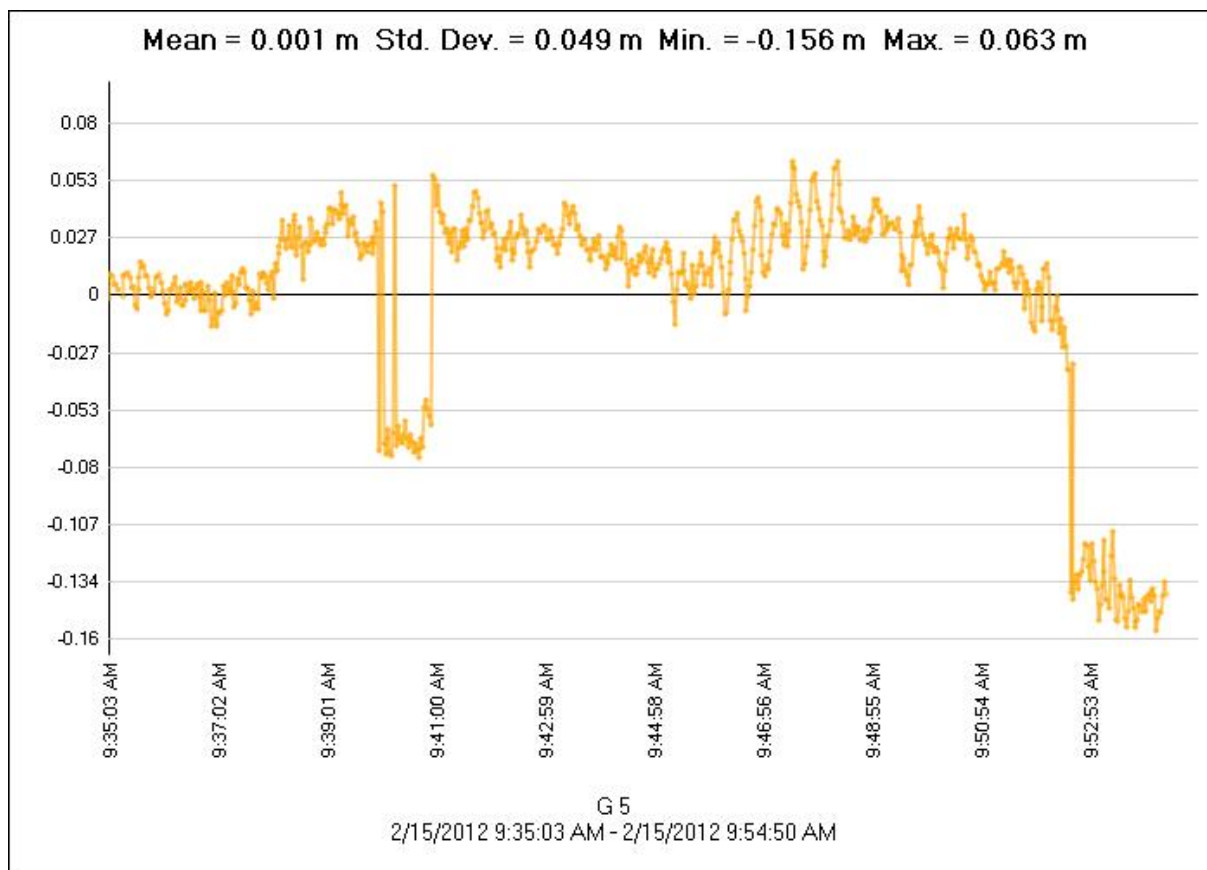
Occupations

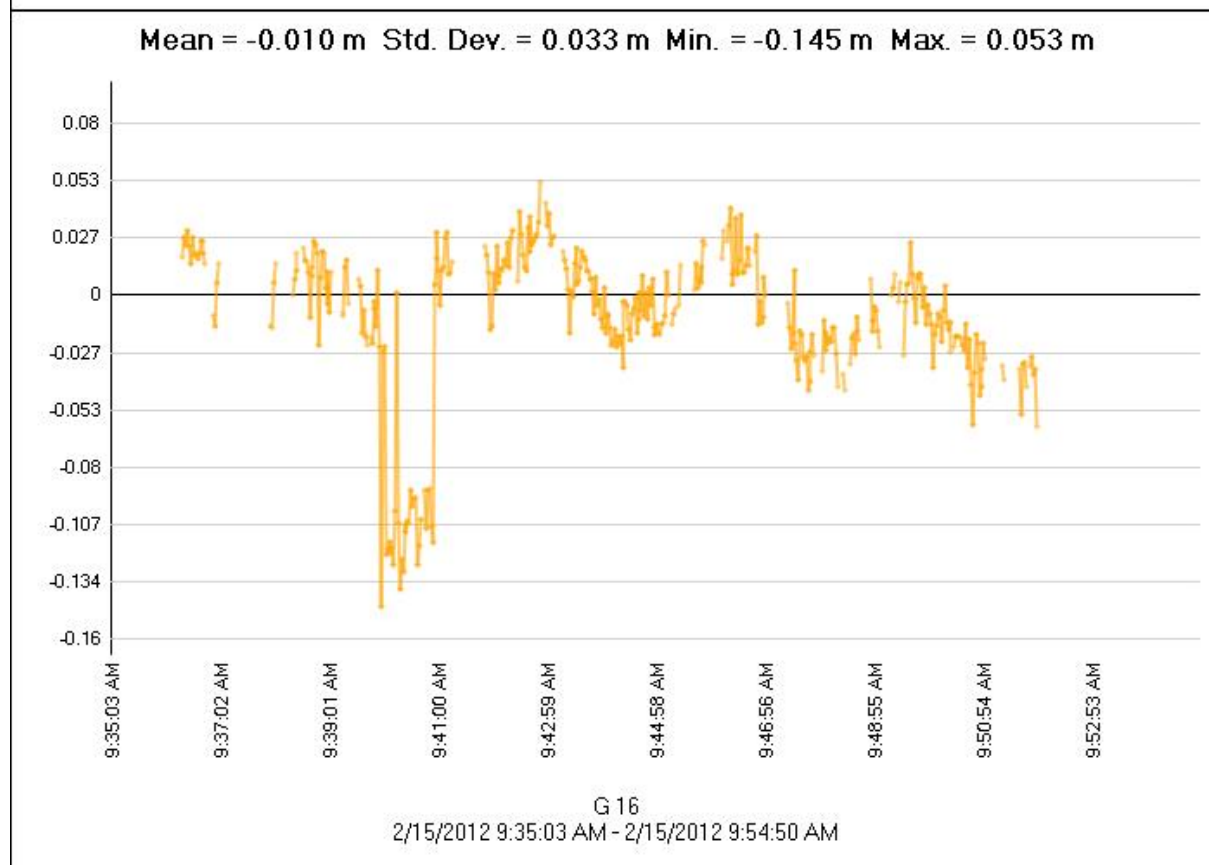
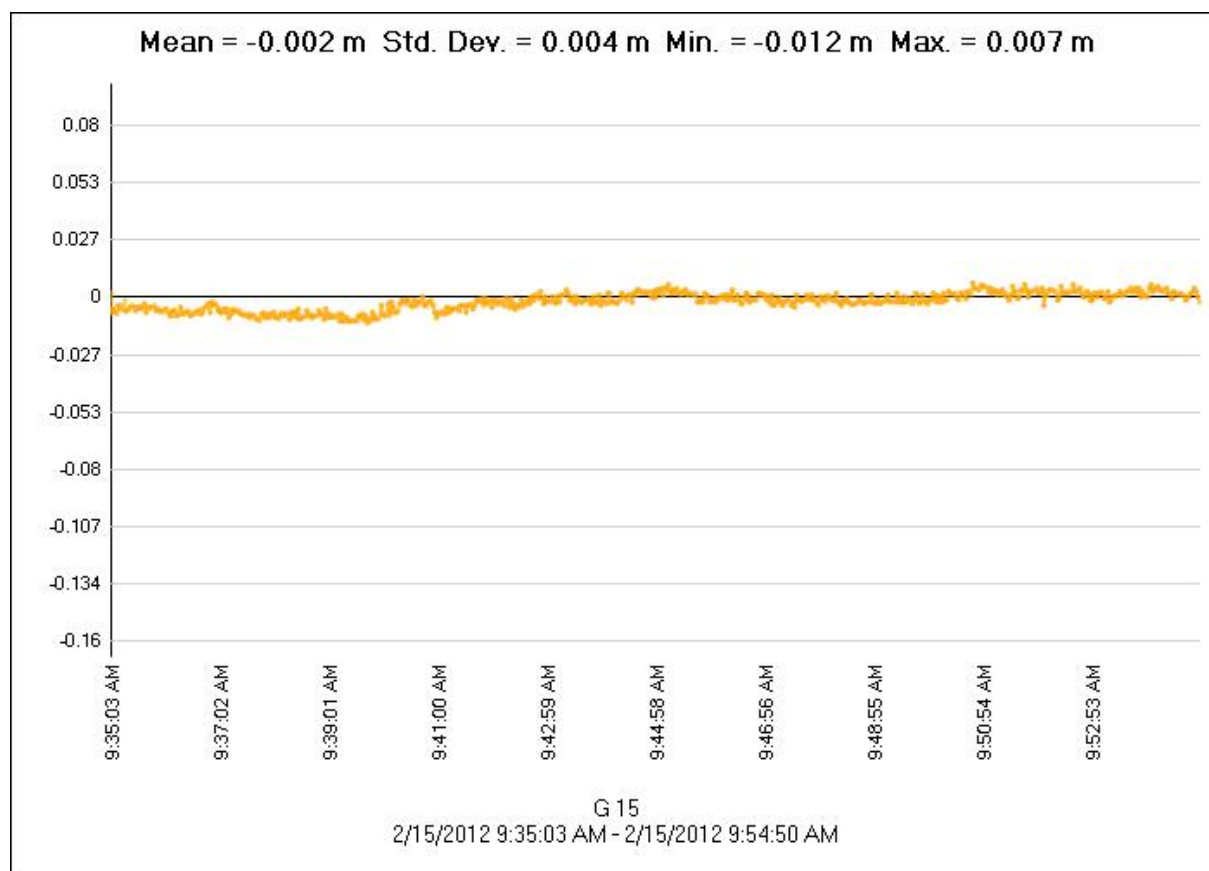
	From	To
Point ID:	JH0456	SVA20-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010460.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040461.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

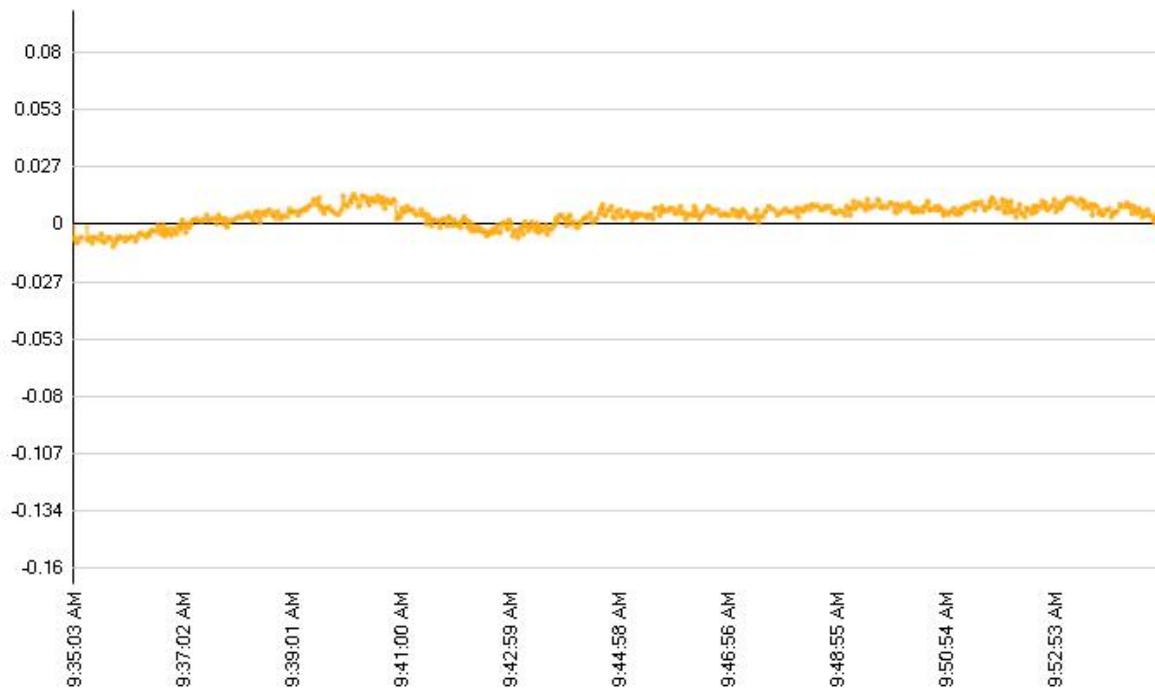
SV	2/15/2012 9:35:01 AM	Duration: 00:19:49	Major interval: 00:01:00	2/15/2012 9:54:50 AM
G 3	L1 L2			
G 5	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 15	L1 L2			
G 16	L1 L2			
G 18	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			
G 29	L1 L2			
G 30	L1 L2			

Residuals



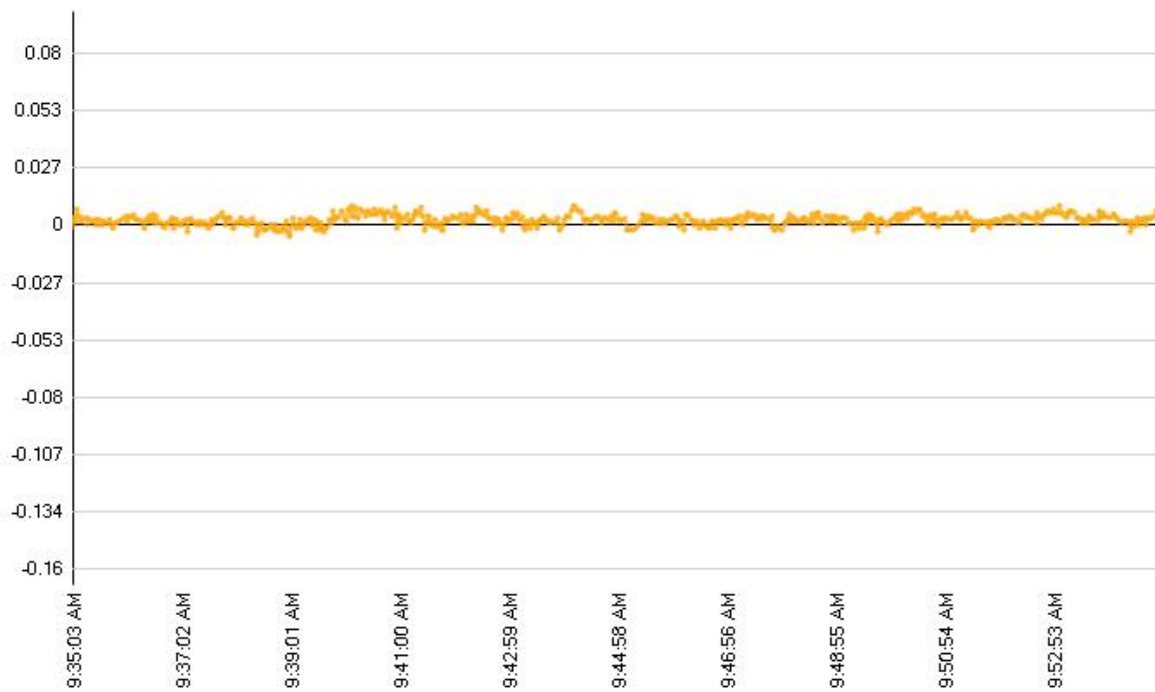


Mean = 0.004 m Std. Dev. = 0.005 m Min. = -0.010 m Max. = 0.014 m



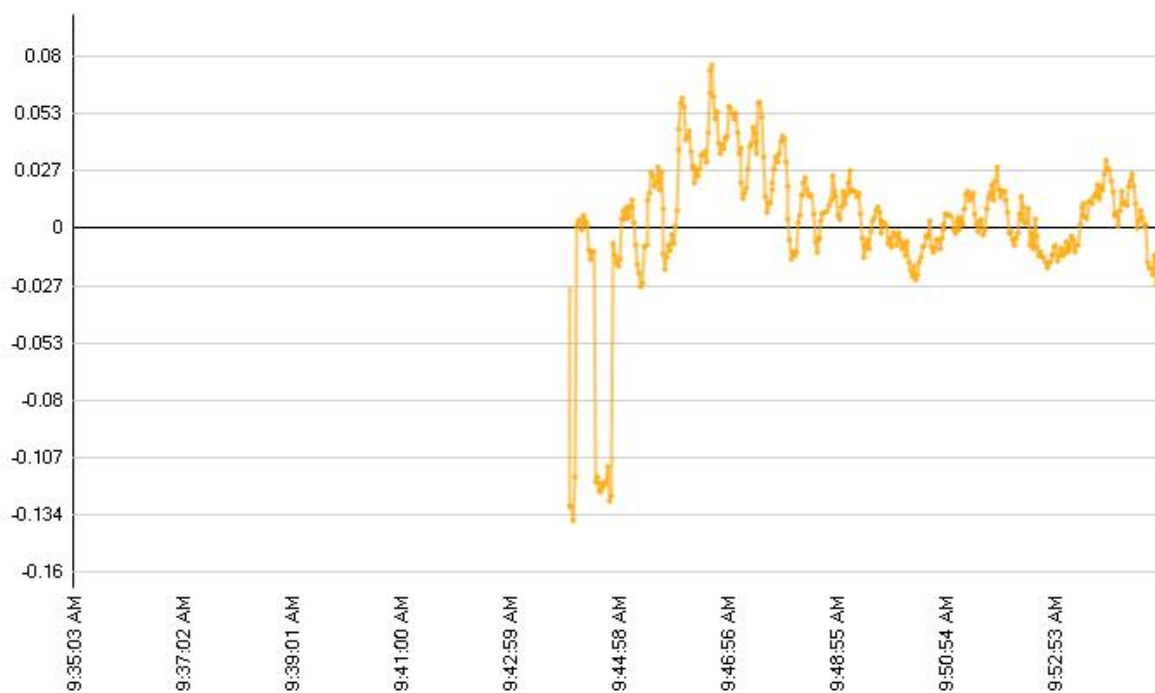
G 18
2/15/2012 9:35:03 AM - 2/15/2012 9:54:50 AM

Mean = 0.002 m Std. Dev. = 0.002 m Min. = -0.005 m Max. = 0.009 m



G 21
2/15/2012 9:35:03 AM - 2/15/2012 9:54:50 AM

Mean = 0.003 m Std. Dev. = 0.031 m Min. = -0.136 m Max. = 0.076 m



G 22

2/15/2012 9:35:03 AM - 2/15/2012 9:54:50 AM

Mean = -0.003 m Std. Dev. = 0.006 m Min. = -0.014 m Max. = 0.011 m



G 29

2/15/2012 9:35:03 AM - 2/15/2012 9:54:50 AM

Processing style

Elevation mask:10.0 deg

Auto start processing:Yes

Start automatic ID numbering:AUTO0001

Continuous vectors:No

Generate residuals:Yes

Antenna model:Automatic



Ephemeris type:Automatic

Frequency: Dual Frequency (L1, L2)

Processing Interval:Use all data

Force float:No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA19-B2 (10:30:54 AM-10:52:27 AM) (S183)

Baseline observation: JH0456 --- SVA19-B2 (B183)

Processed: 3/21/2012 2:59:48 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.076 m

Vertical precision: 0.073 m

RMS: 0.002 m

Maximum PDOP: 2.043

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 10:30:54 AM (Local: UTC-7hr)

Processing stop time: 2/15/2012 10:52:27 AM (Local: UTC-7hr)

Processing duration: 00:21:33

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA19-B2				
Grid		Local		Global	
Easting	377753.501 m	Latitude	N38°34'57.18772"	Latitude	N38°34'57.18772"
Northing	4271387.472 m	Longitude	W100°24'12.65573"	Longitude	W100°24'12.65573"
Elevation	848.764 m	Height	823.329 m	Height	823.329 m

Vector					
9Ughb[	42490.196 m	NS Fwd Azimuth	74°43'25"	L	42900.920 m
Bcfh\jb[	10672.635 m	Ellipsoid Dist.	43816.402 m	M	-766.422 m
9Yj Uhcb	-62.555 m	<Y][\h	-63.074 m	N	8905.688 m

Standard Errors

Vector errors:					
Point ID	0.013 m	Point ID	0°00'00"	Point ID	0.014 m
Point ID	0.031 m	Point ID	0.015 m	Point ID	0.041 m
Point ID	0.037 m	Point ID	0.037 m	Point ID	0.025 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001838925		
Y	0.0001629387	0.0017109279	
Z	0.0000891986	-0.0001186308	0.0006366912

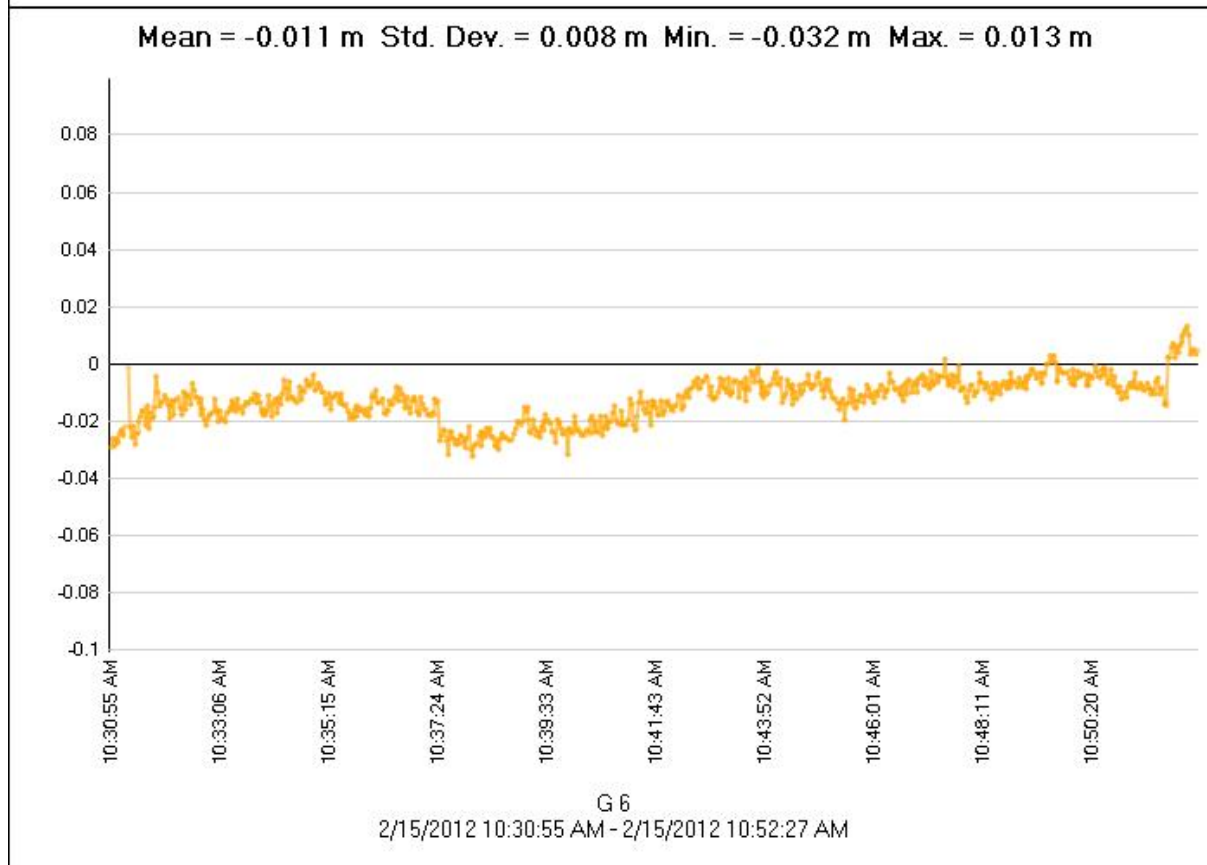
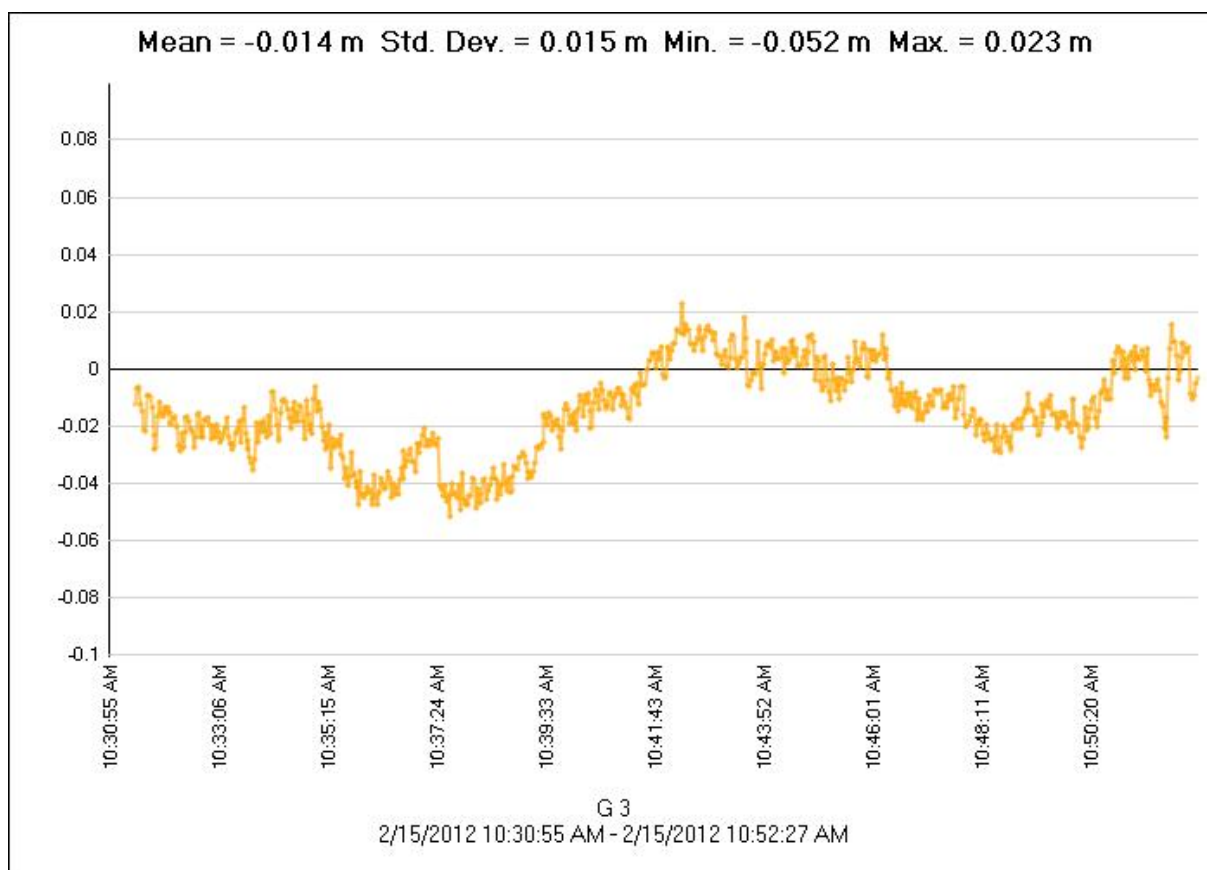
Occupations

	From	To
Point ID:	JH0456	SVA19-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010460.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040462.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/15/2012 10:30:54 AM		Duration: 00:21:33 Major interval: 00:01:00		2/15/2012 10:52:27 AM	
G 3	L1					
	L2					
G 6	L1					
	L2					
G 9	L1					
	L2					
G 14	L1					
	L2					
G 15	L1					
	L2					
G 16	L1					
	L2					
G 18	L1					
	L2					
G 21	L1					
	L2					
G 22	L1					
	L2					
G 27	L1					
	L2					
G 29	L1					
	L2					

Residuals



Mean = 0.013 m Std. Dev. = 0.038 m Min. = -0.098 m Max. = 0.095 m



G 9

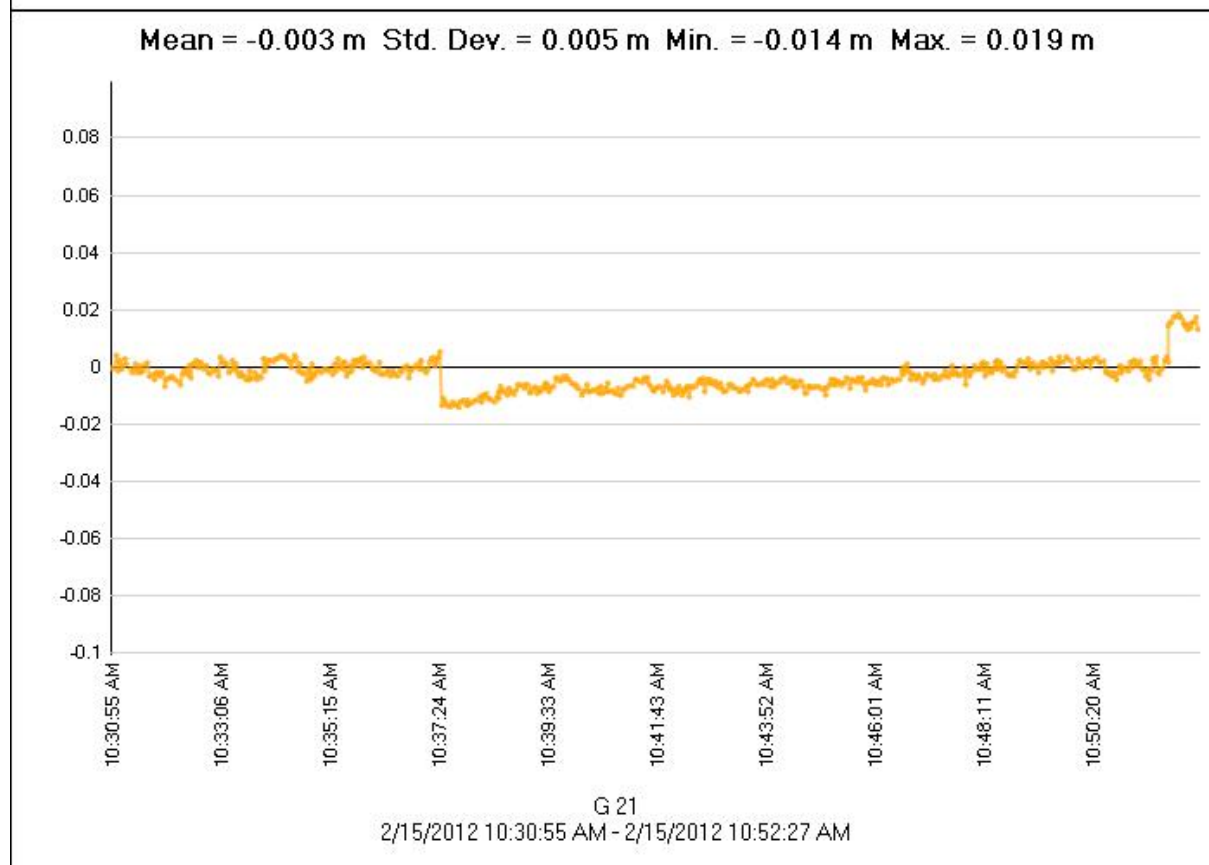
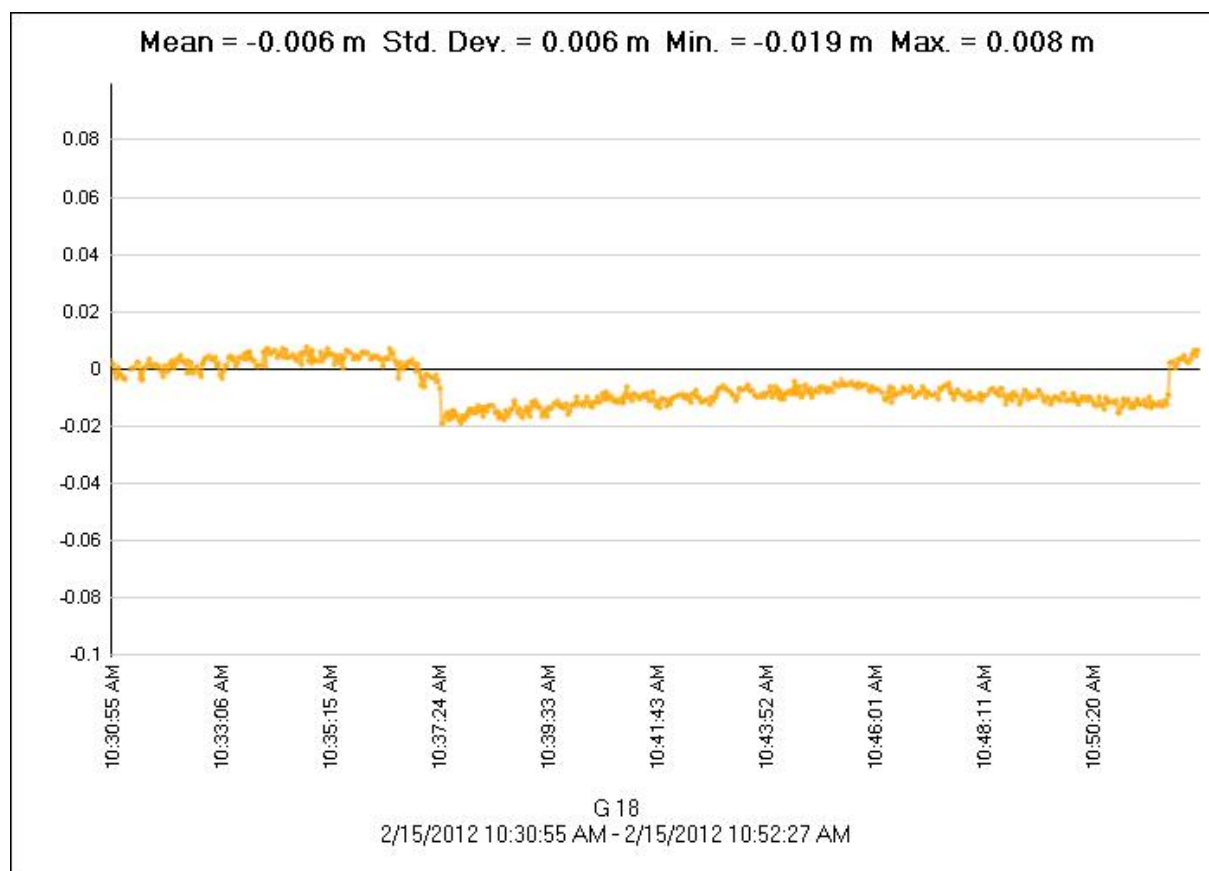
2/15/2012 10:30:55 AM - 2/15/2012 10:52:27 AM

Mean = 0.001 m Std. Dev. = 0.006 m Min. = -0.008 m Max. = 0.016 m

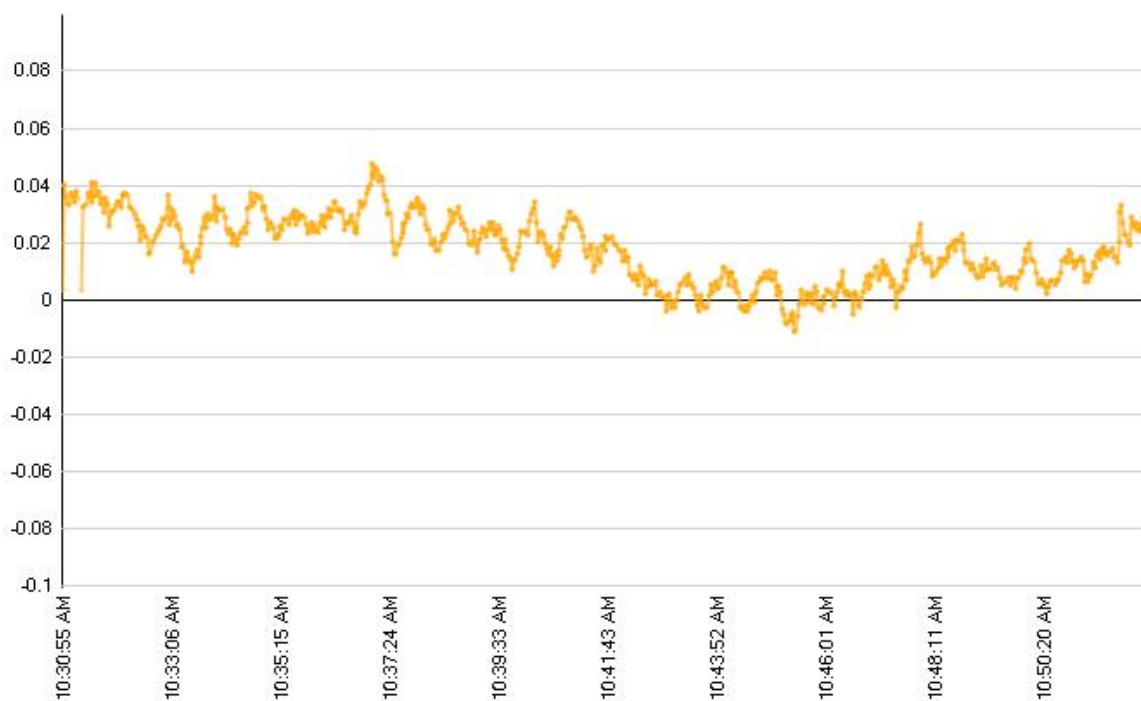


G 15

2/15/2012 10:30:55 AM - 2/15/2012 10:52:27 AM



Mean = 0.017 m Std. Dev. = 0.012 m Min. = -0.011 m Max. = 0.048 m

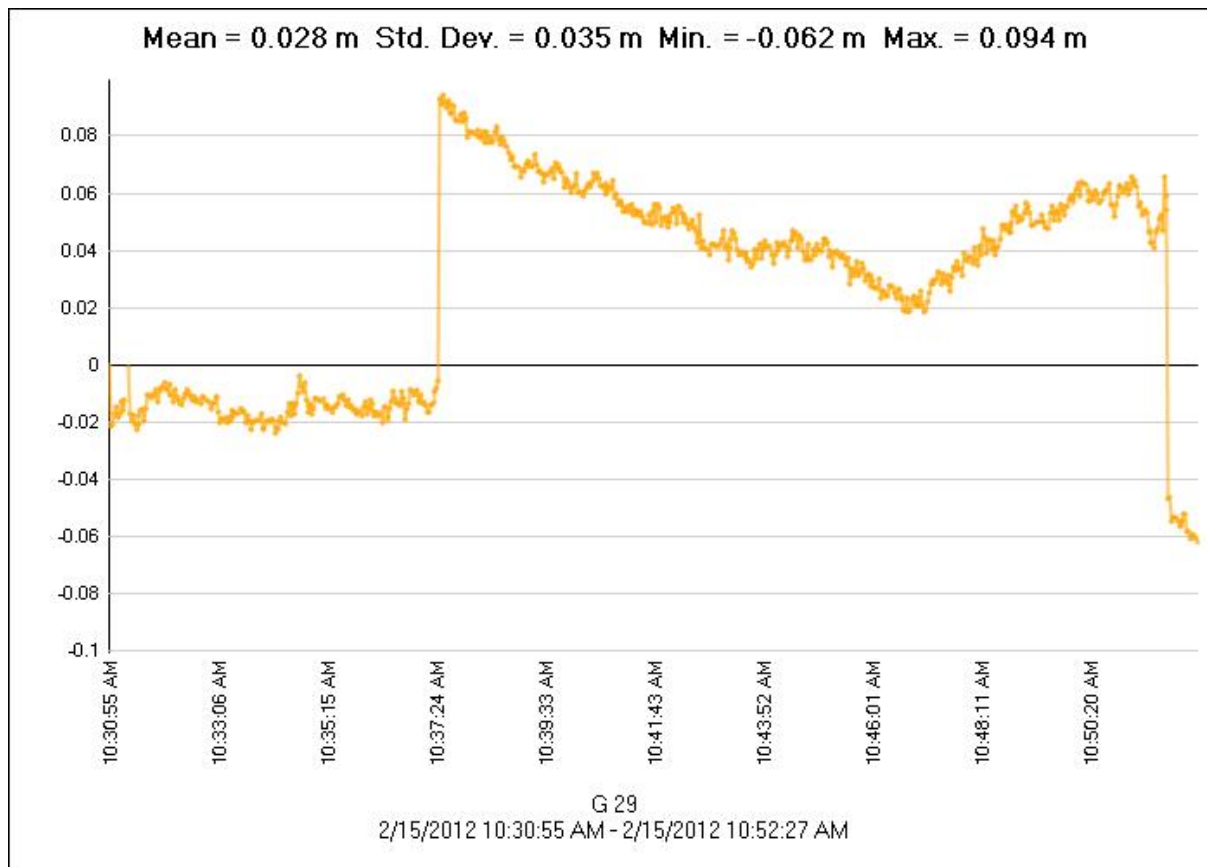


G 22
2/15/2012 10:30:55 AM - 2/15/2012 10:52:27 AM

Mean = 0.007 m Std. Dev. = 0.036 m Min. = -0.100 m Max. = 0.053 m



G 27
2/15/2012 10:30:55 AM - 2/15/2012 10:52:27 AM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA18-B2 (11:20:43 AM-11:40:27 AM) (S185)

Baseline observation: JH0456 --- SVA18-B2 (B185)

Processed: 3/21/2012 3:00:00 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.017 m

Vertical precision: 0.022 m

RMS: 0.002 m

Maximum PDOP: 2.067

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 11:20:43 AM (Local: UTC-7hr)

Processing stop time: 2/15/2012 11:40:27 AM (Local: UTC-7hr)

Processing duration: 00:19:44

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA18-B2				
Grid		Local		Global	
Easting	385814.944 m	Latitude	N38°40'41.23319"	Latitude	N38°40'41.23318"
Northing	4281875.777 m	Longitude	W100°18'45.74651"	Longitude	W100°18'45.74651"
Elevation	823.002 m	Height	797.489 m	Height	797.489 m

Vector					
9Ughb[	50551.640 m	NS Fwd Azimuth	66°06'29"	L	51874.796 m
Bcfh\jb[	21160.940 m	Ellipsoid Dist.	54810.602 m	M	4347.492 m
9Yj Uhcb	-88.318 m	<Y][\h	-88.914 m	N	17178.159 m

Standard Errors

Vector errors:					
Ughb[	0.004 m	BG`Zk X'5n]a i h	0°00'00"	L	0.004 m
Bcfh\]b[	0.007 m	'9~]dgc]X'8]gh	0.005 m	M	0.010 m
'9`Yj Uhcb	0.011 m	' <Y][\h	0.011 m	N	0.008 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000199786		
Y	0.0000228315	0.0001068135	
Z	-0.0000084268	-0.0000327589	0.0000638352

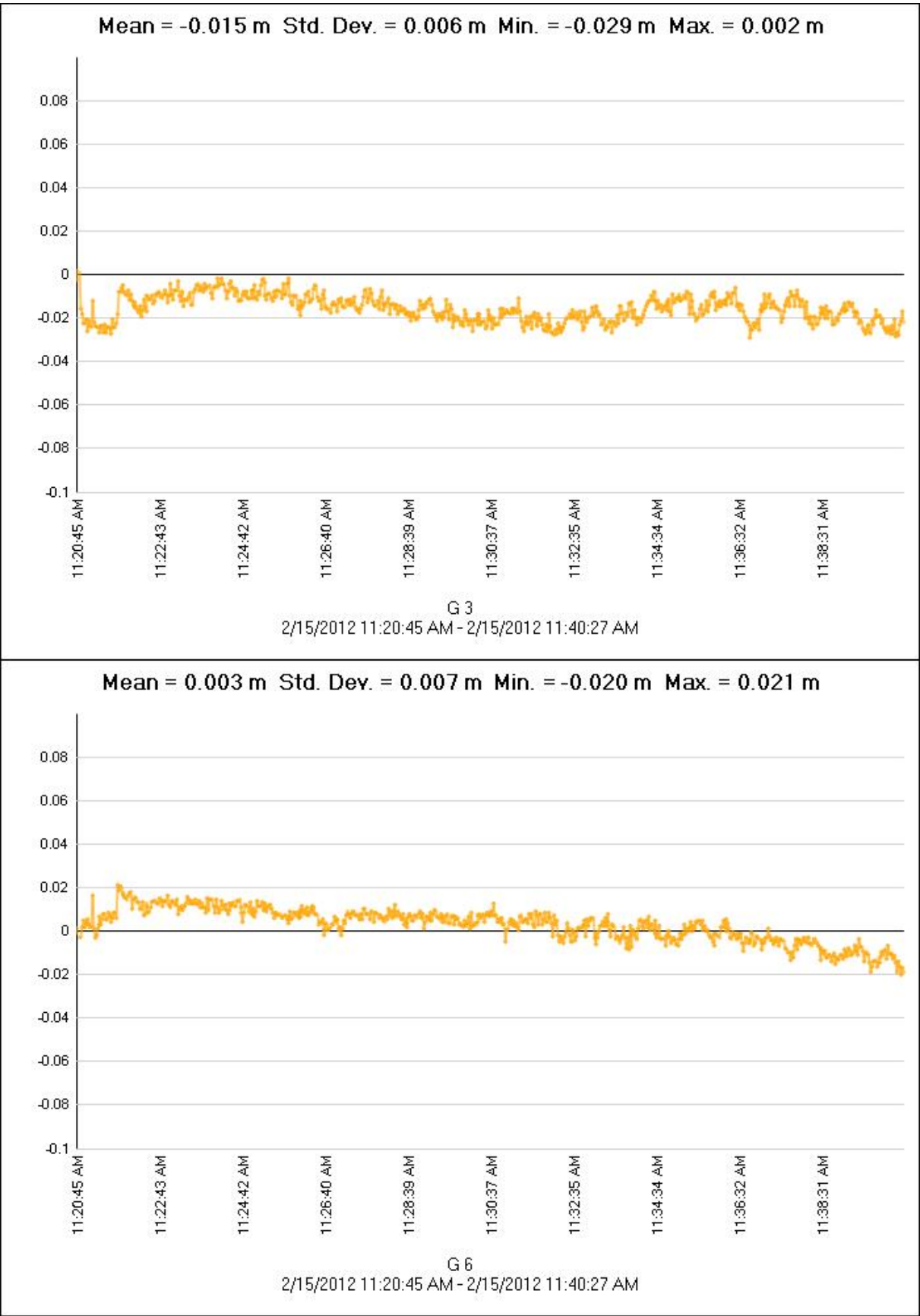
Occupations

	From	To
Point ID:	JH0456	SVA18-B2
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010460.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040463.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/15/2012 11:20:43 AM	Duration: 00:19:44	Major interval: 00:01:00	2/15/2012 11:40:27 AM
G 3	L1			
	L2			
G 6	L1			
	L2			
G 9	L1			
	L2			
G 14	L1			
	L2			
G 15	L1			
	L2			
G 18	L1			
	L2			
G 19	L1			
	L2			
G 21	L1			
	L2			
G 22	L1			
	L2			
G 27	L1			
	L2			
G 29	L1			
	L2			

Residuals



Mean = -0.015 m Std. Dev. = 0.007 m Min. = -0.034 m Max. = 0.004 m



G 9

2/15/2012 11:20:45 AM - 2/15/2012 11:40:27 AM

Mean = 0.003 m Std. Dev. = 0.016 m Min. = -0.045 m Max. = 0.038 m



G 14

2/15/2012 11:20:45 AM - 2/15/2012 11:40:27 AM

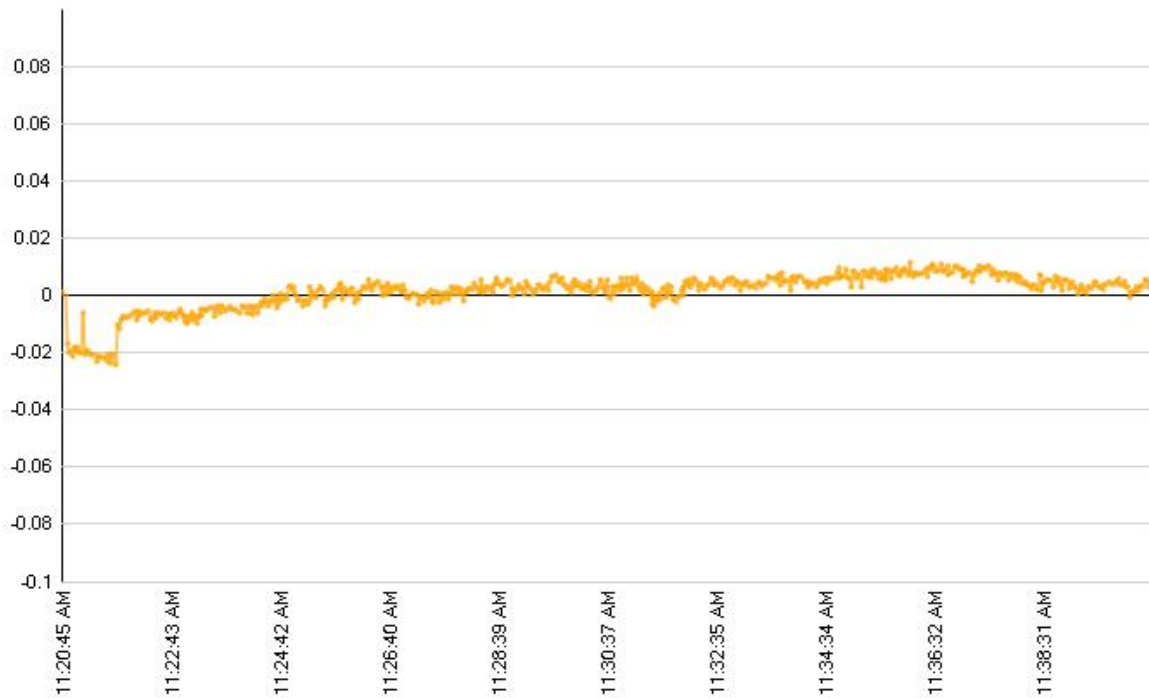
Mean = -0.013 m Std. Dev. = 0.016 m Min. = -0.051 m Max. = 0.051 m



G 15

2/15/2012 11:20:45 AM - 2/15/2012 11:40:27 AM

Mean = 0.001 m Std. Dev. = 0.006 m Min. = -0.024 m Max. = 0.011 m



G 18

2/15/2012 11:20:45 AM - 2/15/2012 11:40:27 AM

Mean = -0.017 m Std. Dev. = 0.040 m Min. = -0.076 m Max. = 0.062 m



G 19

2/15/2012 11:20:45 AM - 2/15/2012 11:40:27 AM

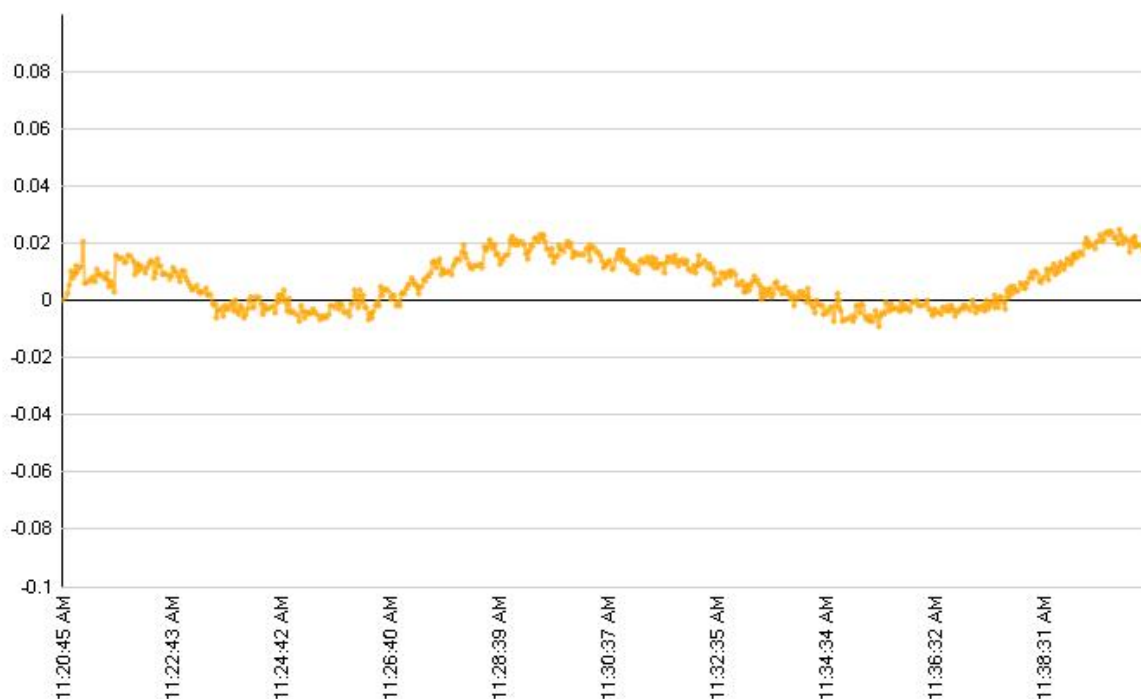
Mean = 0.004 m Std. Dev. = 0.005 m Min. = -0.006 m Max. = 0.024 m



G 21

2/15/2012 11:20:45 AM - 2/15/2012 11:40:27 AM

Mean = 0.007 m Std. Dev. = 0.008 m Min. = -0.009 m Max. = 0.025 m



G 22

2/15/2012 11:20:45 AM - 2/15/2012 11:40:27 AM

Mean = 0.014 m Std. Dev. = 0.012 m Min. = -0.036 m Max. = 0.034 m





G 27

2/15/2012 11:20:45 AM - 2/15/2012 11:40:27 AM

Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA02-B1 (2:39:54 PM-3:00:17 PM) (S187)

Baseline observation: JH0456 --- SVA02-B1 (B187)

Processed: 3/21/2012 2:59:57 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.022 m

Vertical precision: 0.050 m

RMS: 0.003 m

Maximum PDOP: 2.452

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 2:39:54 PM (Local: UTC-7hr)

Processing stop time: 2/15/2012 3:00:17 PM (Local: UTC-7hr)

Processing duration: 00:20:23

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA02-B1				
Grid		Local		Global	
Easting	317494.969 m	Latitude	N38°15'54.30475"	Latitude	N38°15'54.30475"
Northing	4237285.512 m	Longitude	W101°05'10.07471"	Longitude	W101°05'10.07471"
Elevation	943.442 m	Height	918.778 m	Height	918.778 m

Vector					
9Ughb[	-17768.336 m	NS Fwd Azimuth	216°00'12"	L	-19768.093 m
BcfA\jb[	-23429.325 m	Ellipsoid Dist.	29405.717 m	M	-11244.709 m
9`Yj Uhcb	32.123 m	<Y][\h	32.376 m	N	-18647.247 m

Standard Errors

Vector errors:					
Ughb[	0.009 m	BG`Zk X'5n]a i h	0°00'00"	L	0.012 m
Bcfh\]b[	0.004 m	'9~]dgc]X'8]gh	0.006 m	M	0.018 m
'9`Yj Uhcb	0.026 m	' <Y][\h	0.026 m	N	0.017 m


Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001516823		
Y	0.0002120364	0.0003277702	
Z	-0.0001852875	-0.0002855613	0.0002753208

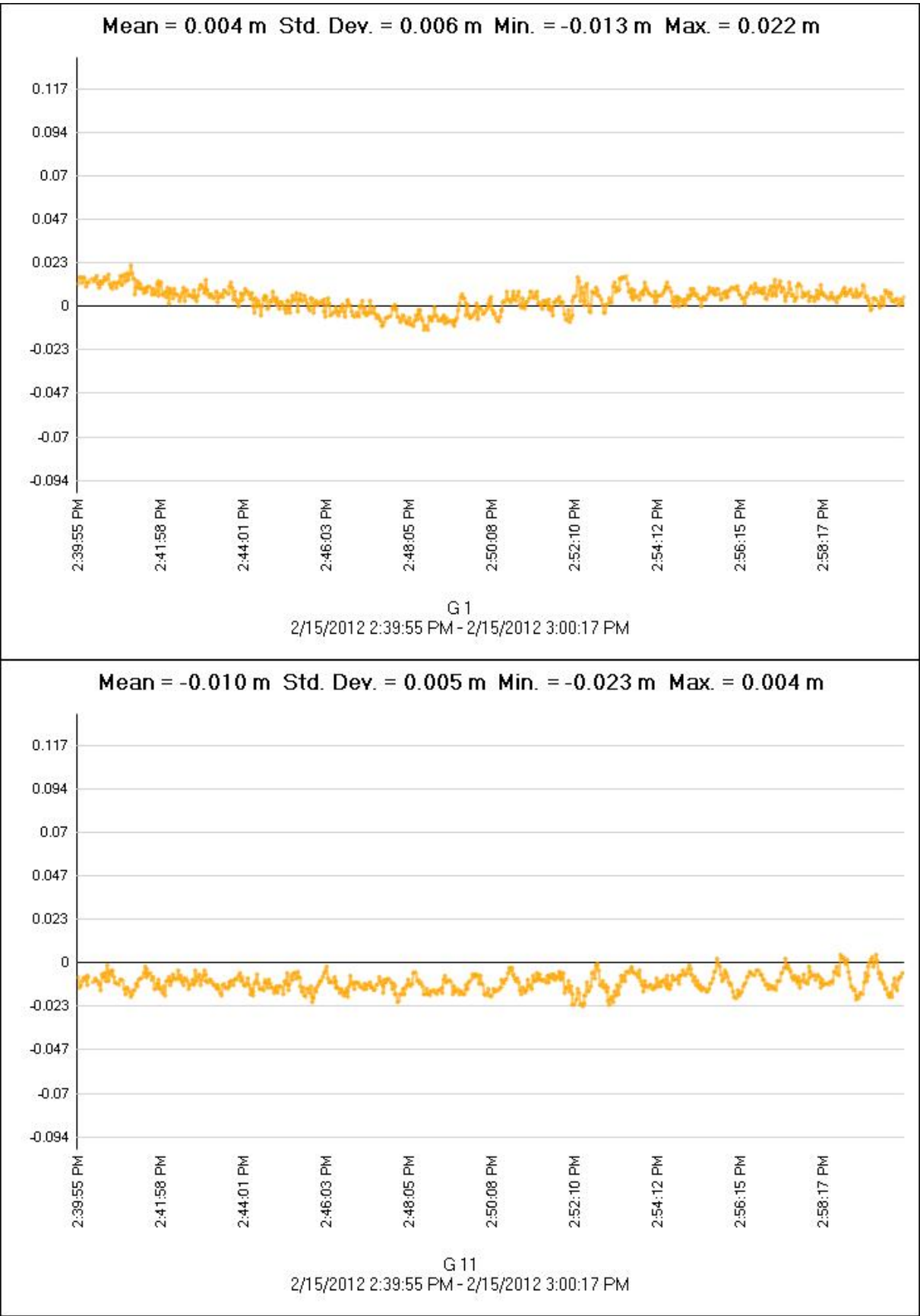
Occupations

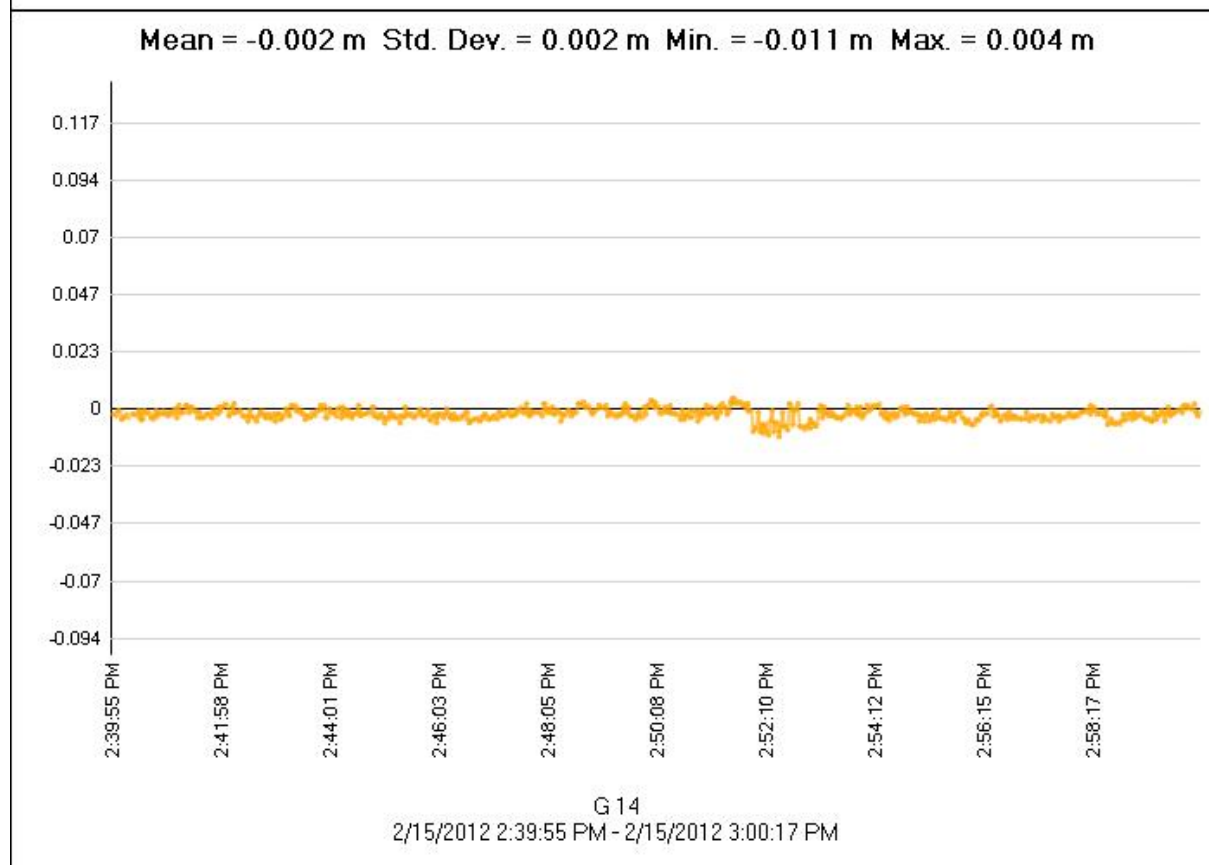
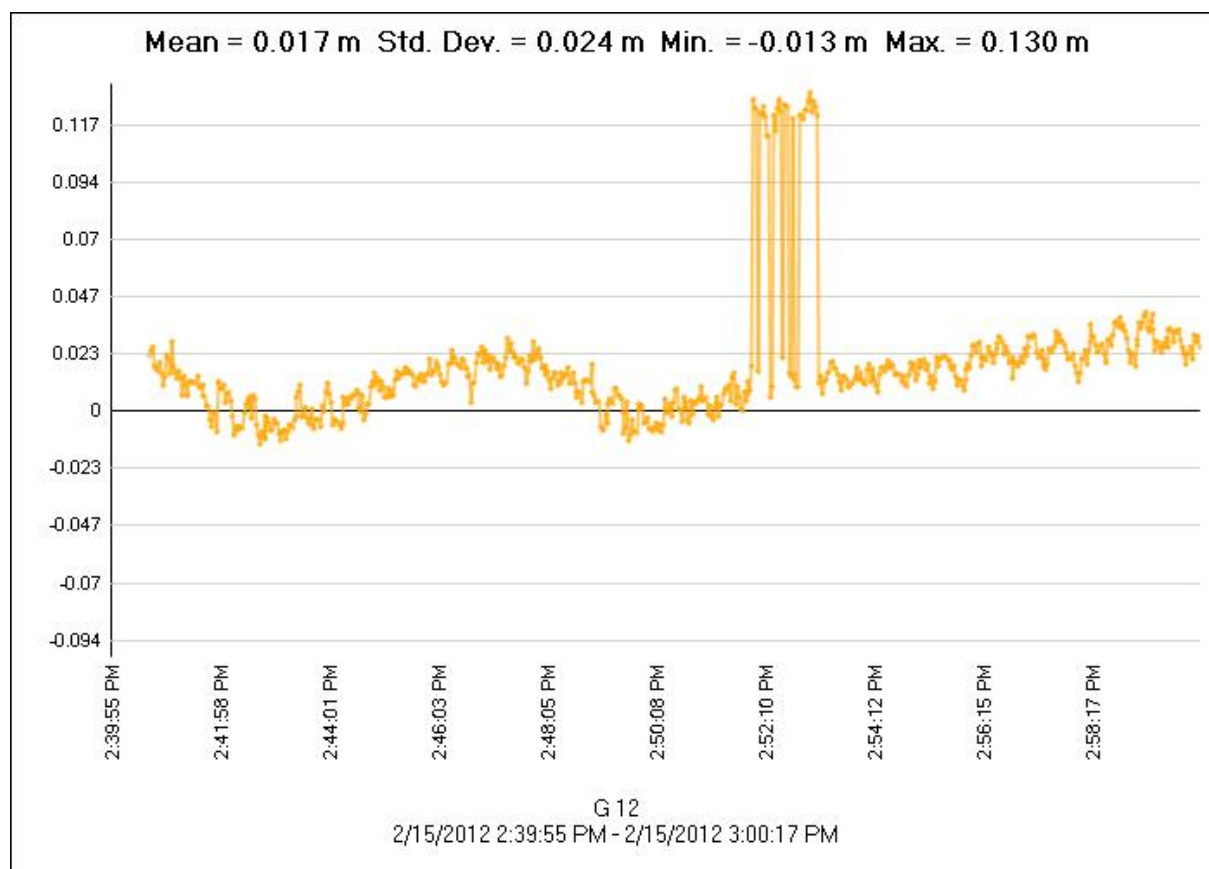
	From	To
Point ID:	JH0456	SVA02-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00010461.12o	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj\00040464.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

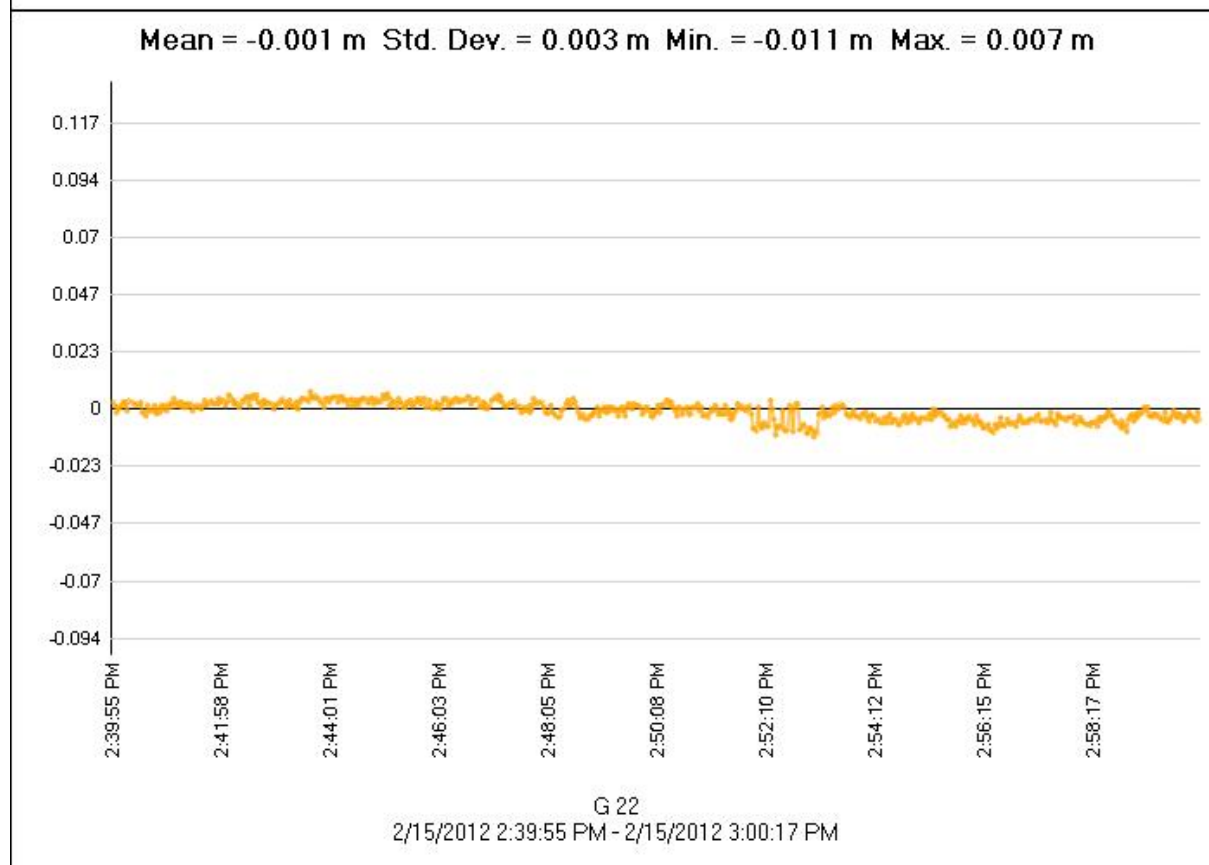
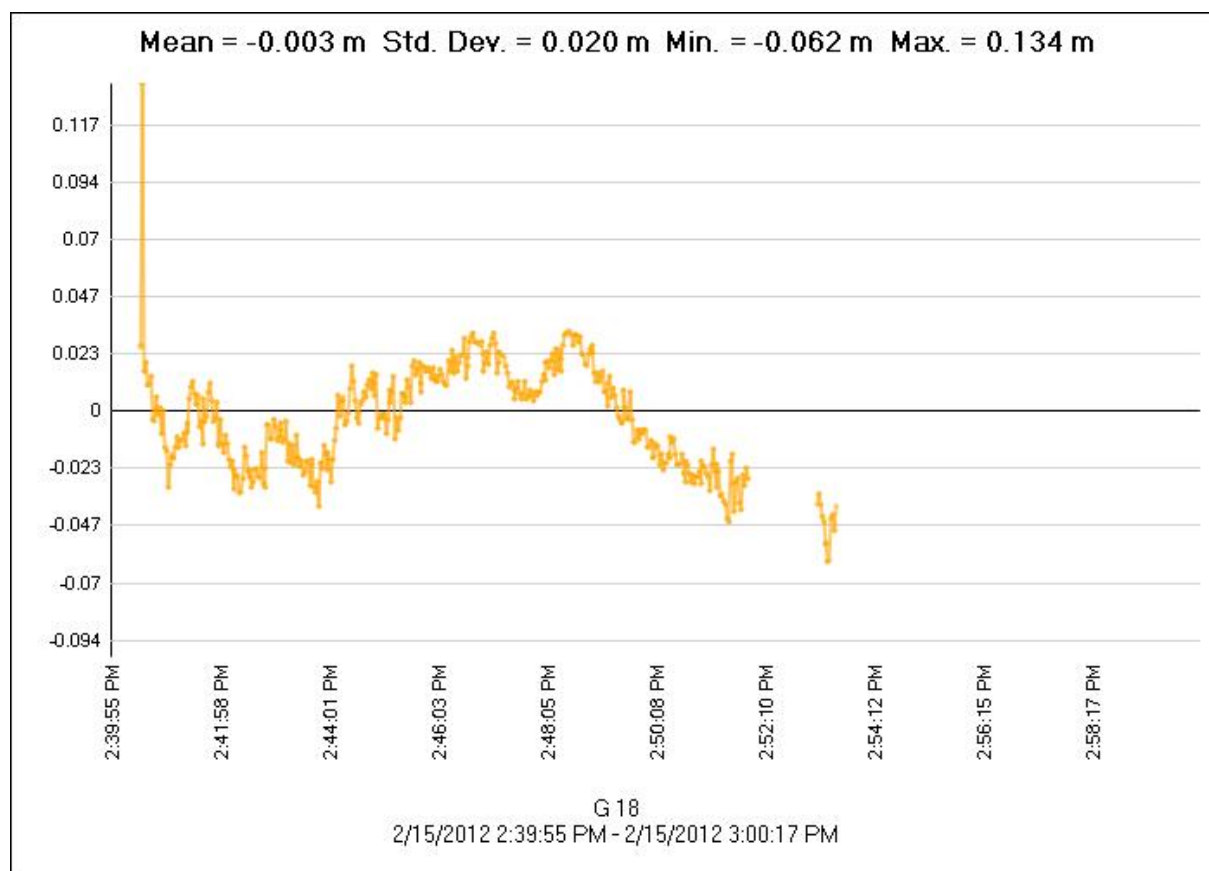
Tracking Summary

SV	2/15/2012 2:39:54 PM	Duration: 00:20:23 Major interval: 00:01:00	2/15/2012 3:00:17 PM
G1			
G11			
G12			
G14			
G18			
G19			
G20			
G22			
G25			
G30			
G31			
G32			

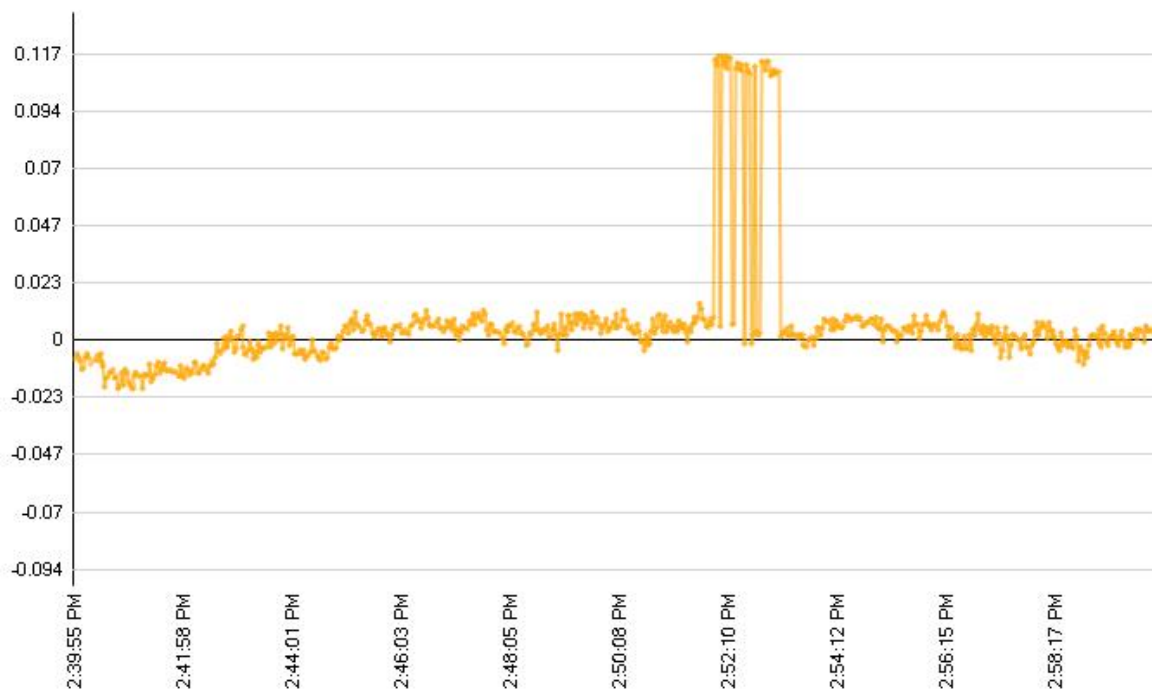
Residuals







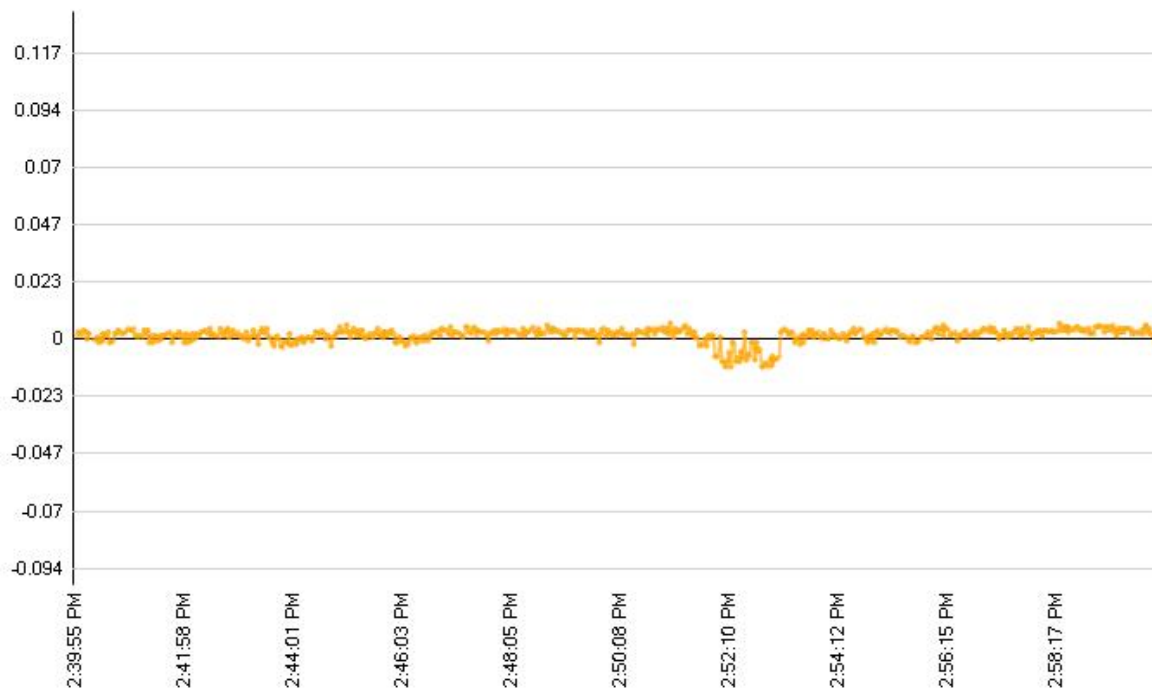
Mean = 0.005 m Std. Dev. = 0.022 m Min. = -0.020 m Max. = 0.117 m



G 25

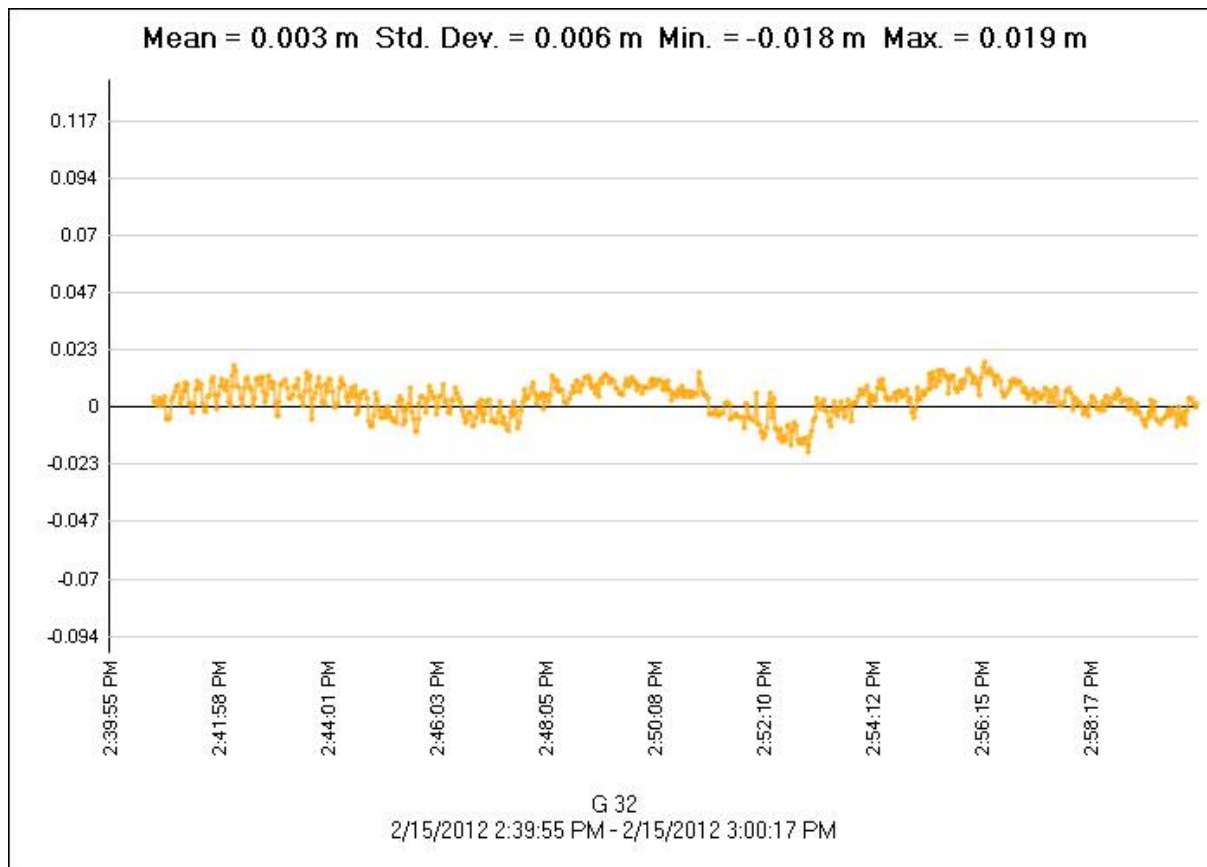
2/15/2012 2:39:55 PM - 2/15/2012 3:00:17 PM

Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.011 m Max. = 0.007 m



G 31

2/15/2012 2:39:55 PM - 2/15/2012 3:00:17 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0456 - SVA29-B1 (3:36:24 PM-3:56:48 PM) (S189)

Baseline observation: JH0456 --- SVA29-B1 (B189)

Processed: 3/21/2012 2:59:58 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.025 m

Vertical precision: 0.029 m

RMS: 0.001 m

Maximum PDOP: 2.405

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/15/2012 3:36:24 PM (Local: UTC-7hr)

Processing stop time: 2/15/2012 3:56:48 PM (Local: UTC-7hr)

Processing duration: 00:20:24

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0456				
Grid		Local		Global	
Easting	335263.304 m	Latitude	N38°28'46.40635"	Latitude	N38°28'46.40634"
Northing	4260714.837 m	Longitude	W100°53'19.02004"	Longitude	W100°53'19.02004"
Elevation	911.319 m	Height	886.403 m	Height	886.403 m

To:	SVA29-B1				
Grid		Local		Global	
Easting	295164.172 m	Latitude	N38°16'41.09597"	Latitude	N38°16'41.09597"
Northing	4239263.493 m	Longitude	W101°20'30.37566"	Longitude	W101°20'30.37566"
Elevation	1012.200 m	Height	987.847 m	Height	987.847 m

Vector					
9Ughb[	-40099.132 m	NS Fwd Azimuth	240°40'57"	L	-41551.343 m
Bcfh\jb[	-21451.344 m	Ellipsoid Dist.	45475.365 m	M	-6070.125 m
9Yj Uhcb	100.880 m	<Y][\h	101.445 m	N	-17471.617 m

Standard Errors

Vector errors:					
Point ID	0.010 m	Point Description	0°00'00"	Point Type	0.011 m
Point ID	0.006 m	Point Description	0.010 m	Point Type	0.012 m
Point ID	0.015 m	Point Description	0.015 m	Point Type	0.009 m

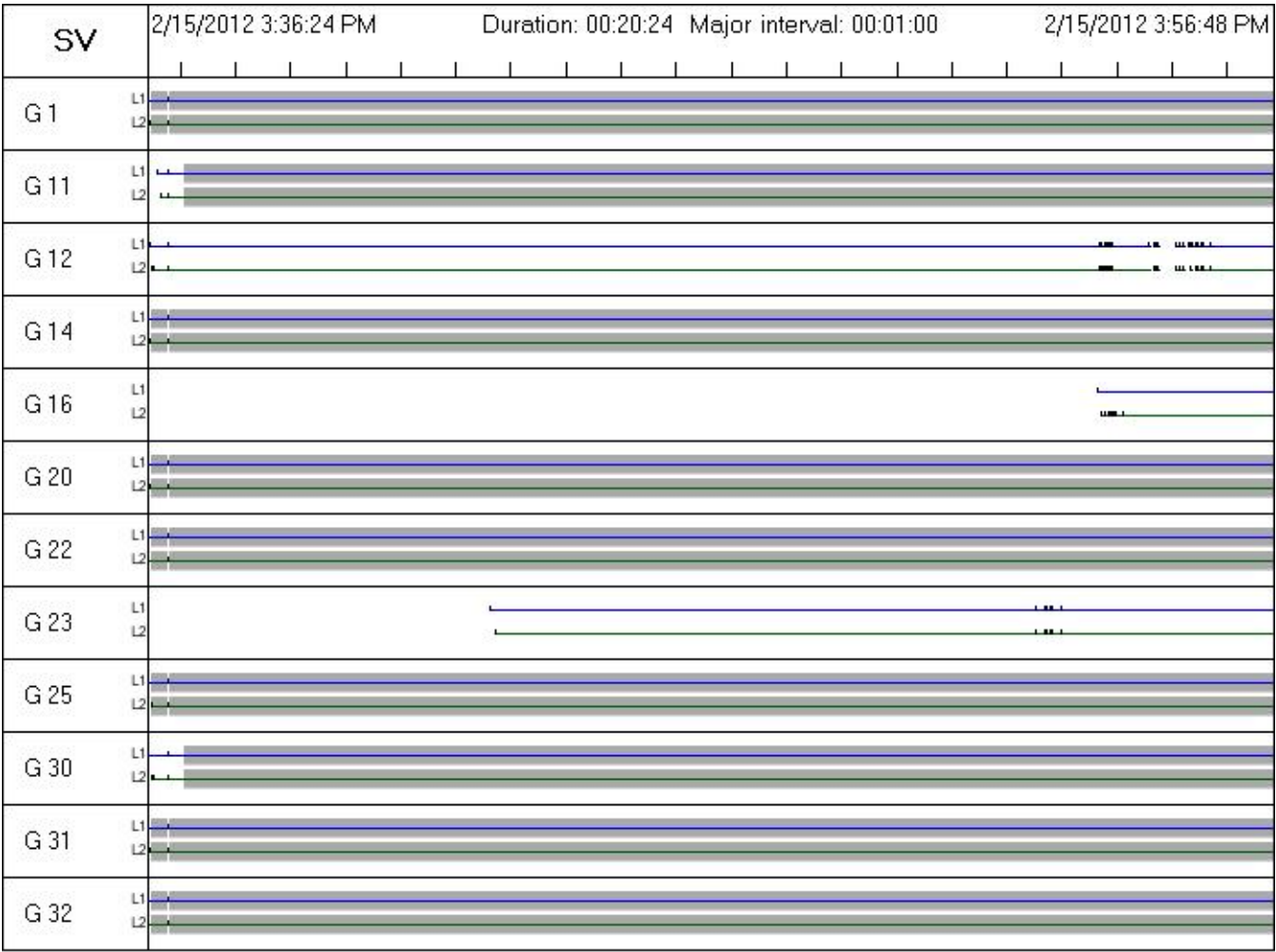
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001302514		
Y	0.0001021110	0.0001377293	
Z	-0.0000619041	-0.0000749868	0.0000886943

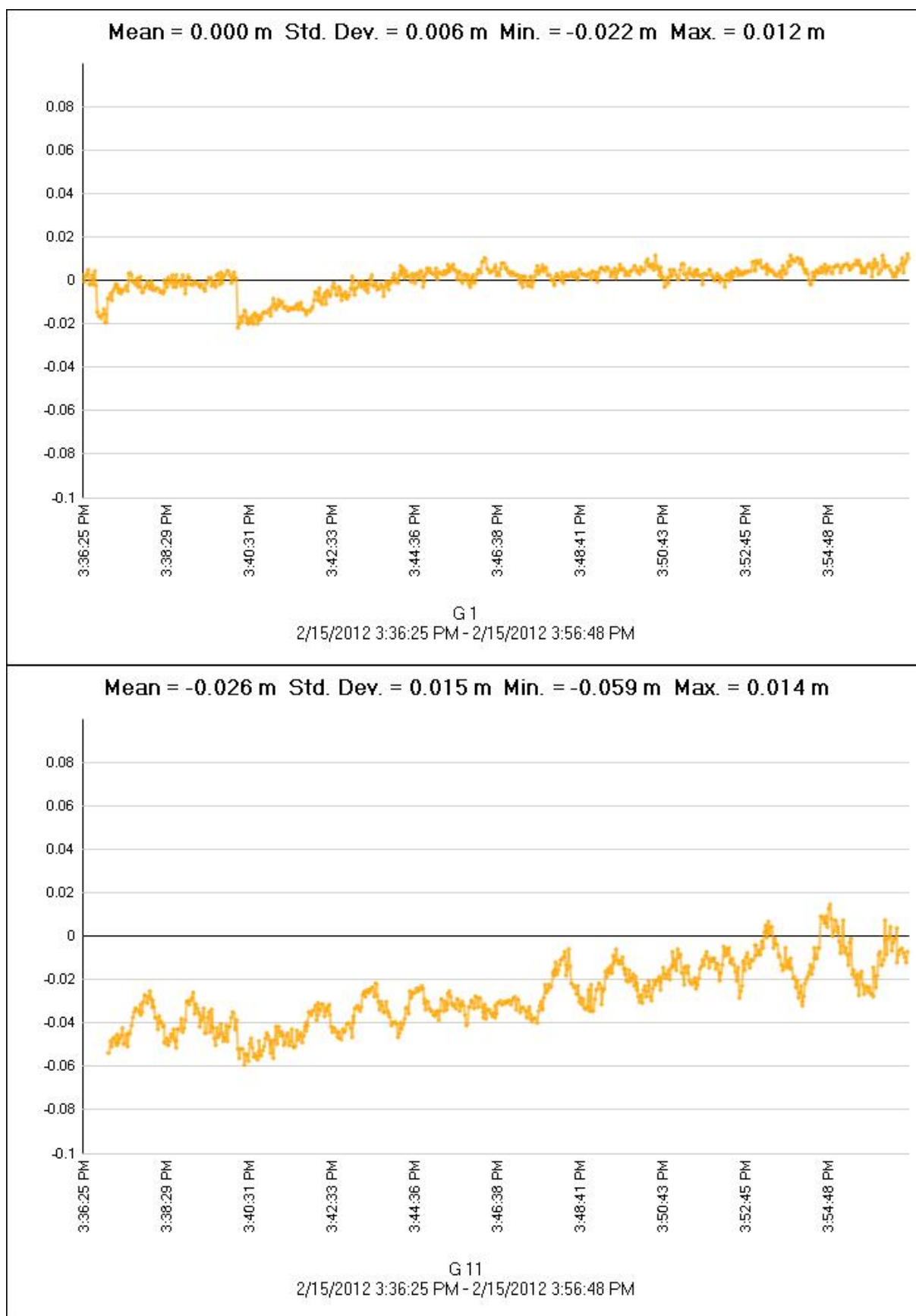
Occupations

	From	To
Point ID:	JH0456	SVA29-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00010461.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00040465.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	1.565 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary



Residuals



Mean = 0.021 m Std. Dev. = 0.024 m Min. = -0.034 m Max. = 0.066 m



G 14

2/15/2012 3:36:25 PM - 2/15/2012 3:56:48 PM

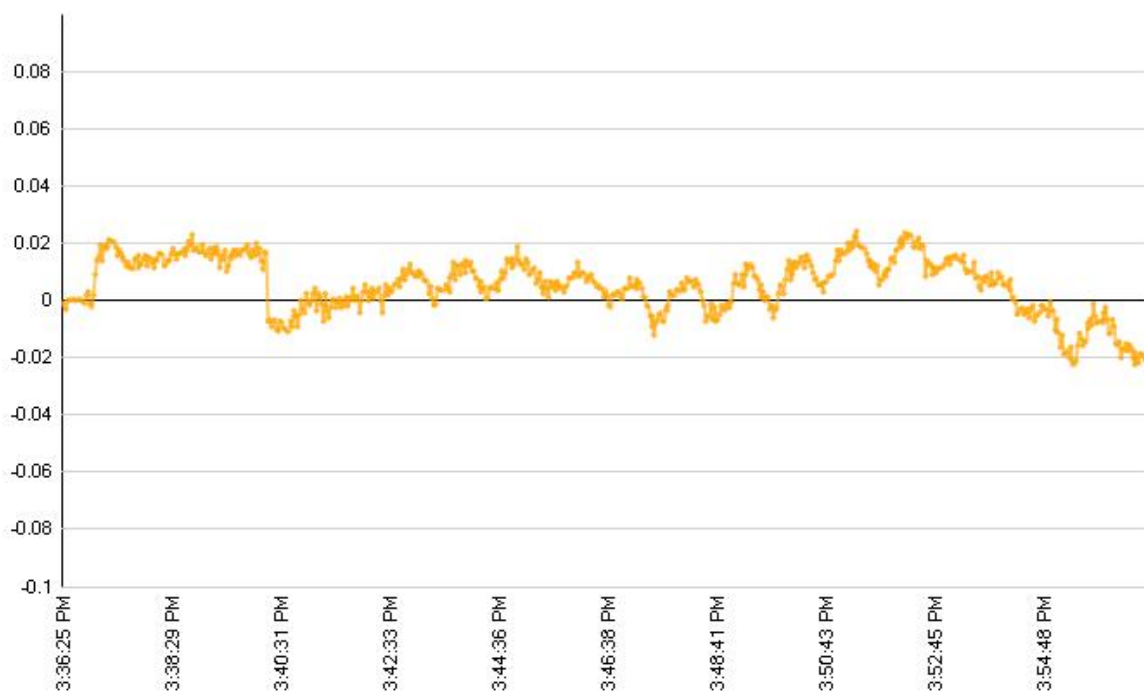
Mean = -0.014 m Std. Dev. = 0.015 m Min. = -0.046 m Max. = 0.027 m



G 20

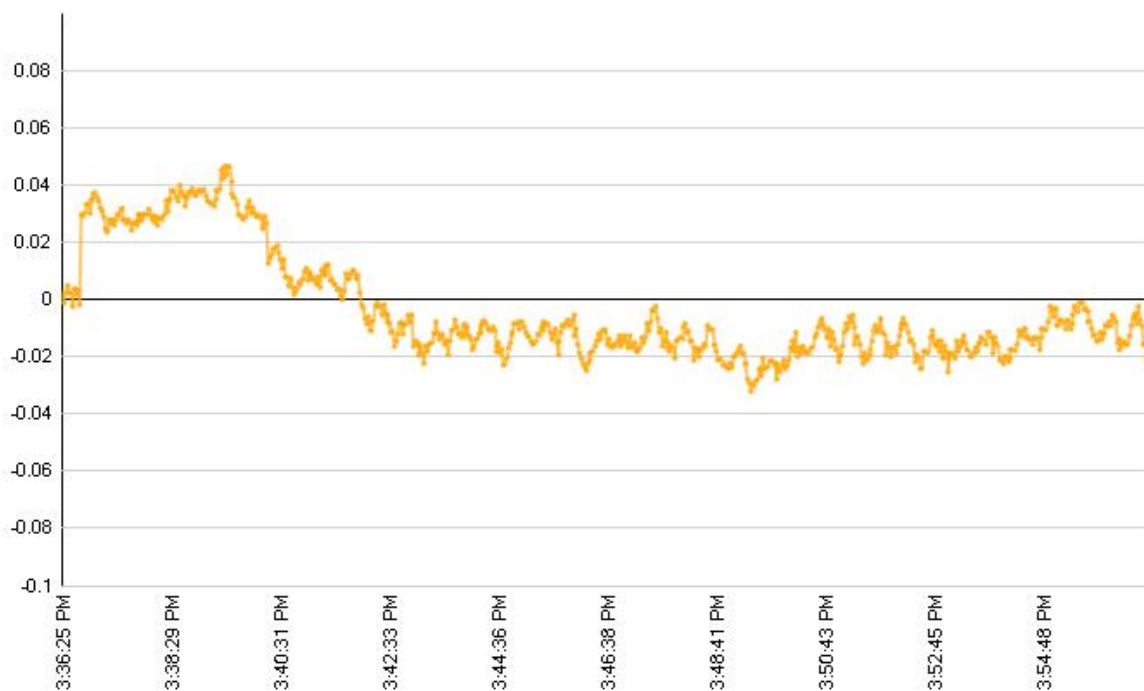
2/15/2012 3:36:25 PM - 2/15/2012 3:56:48 PM

Mean = 0.005 m Std. Dev. = 0.009 m Min. = -0.023 m Max. = 0.024 m

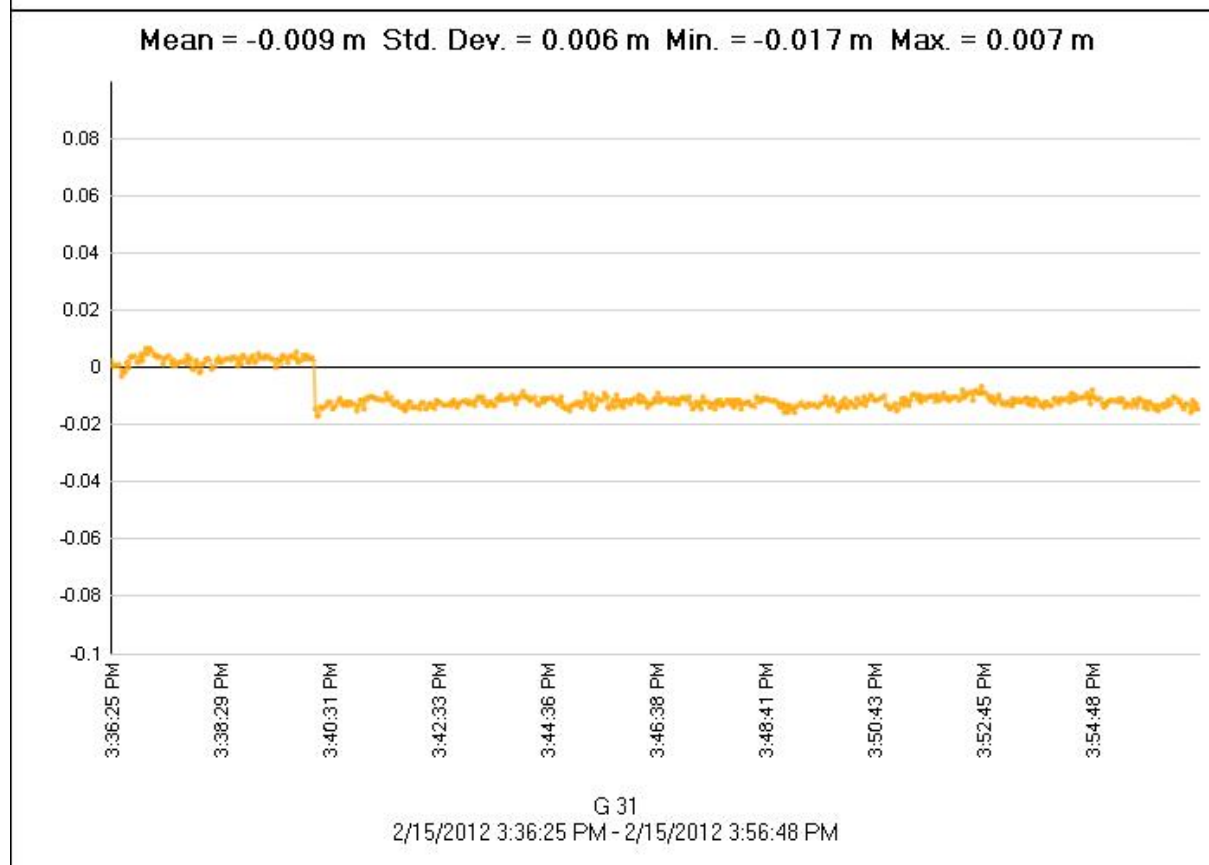
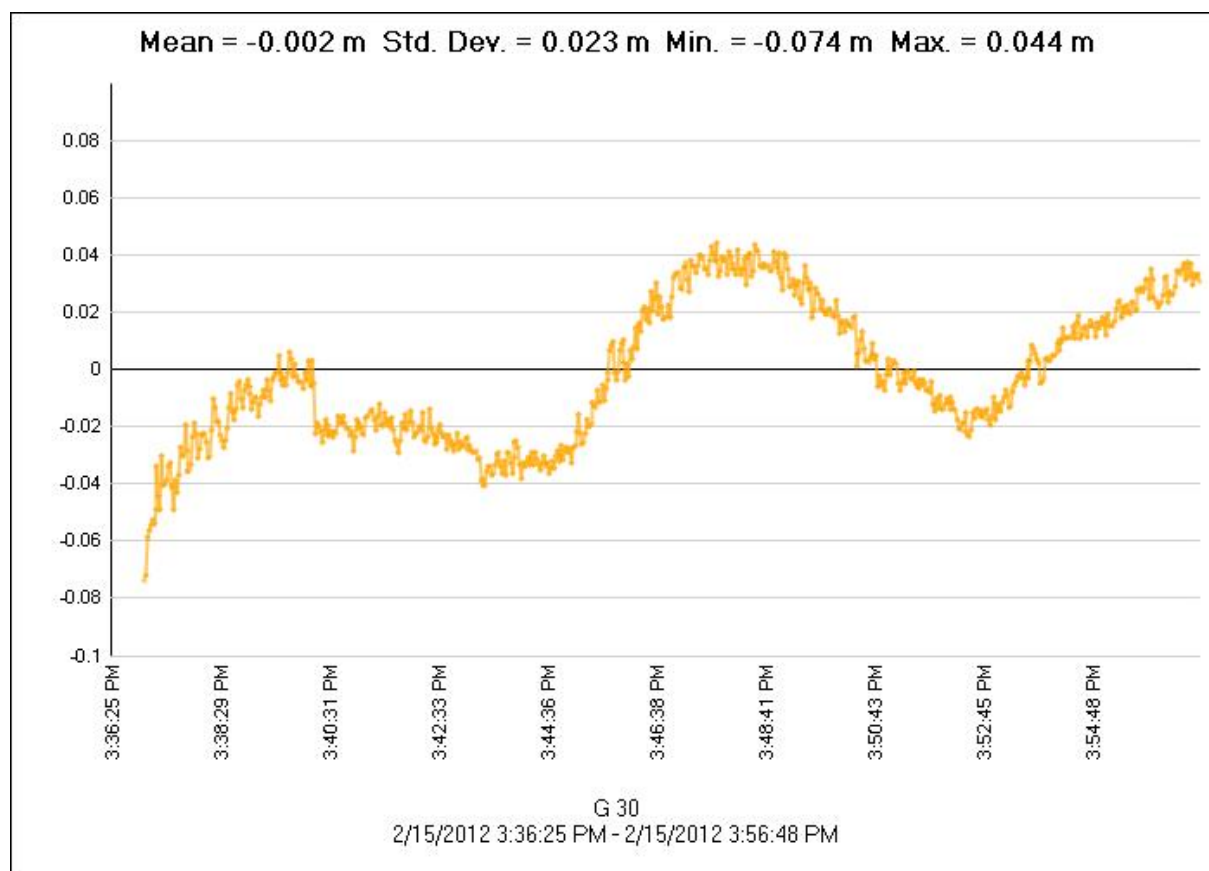


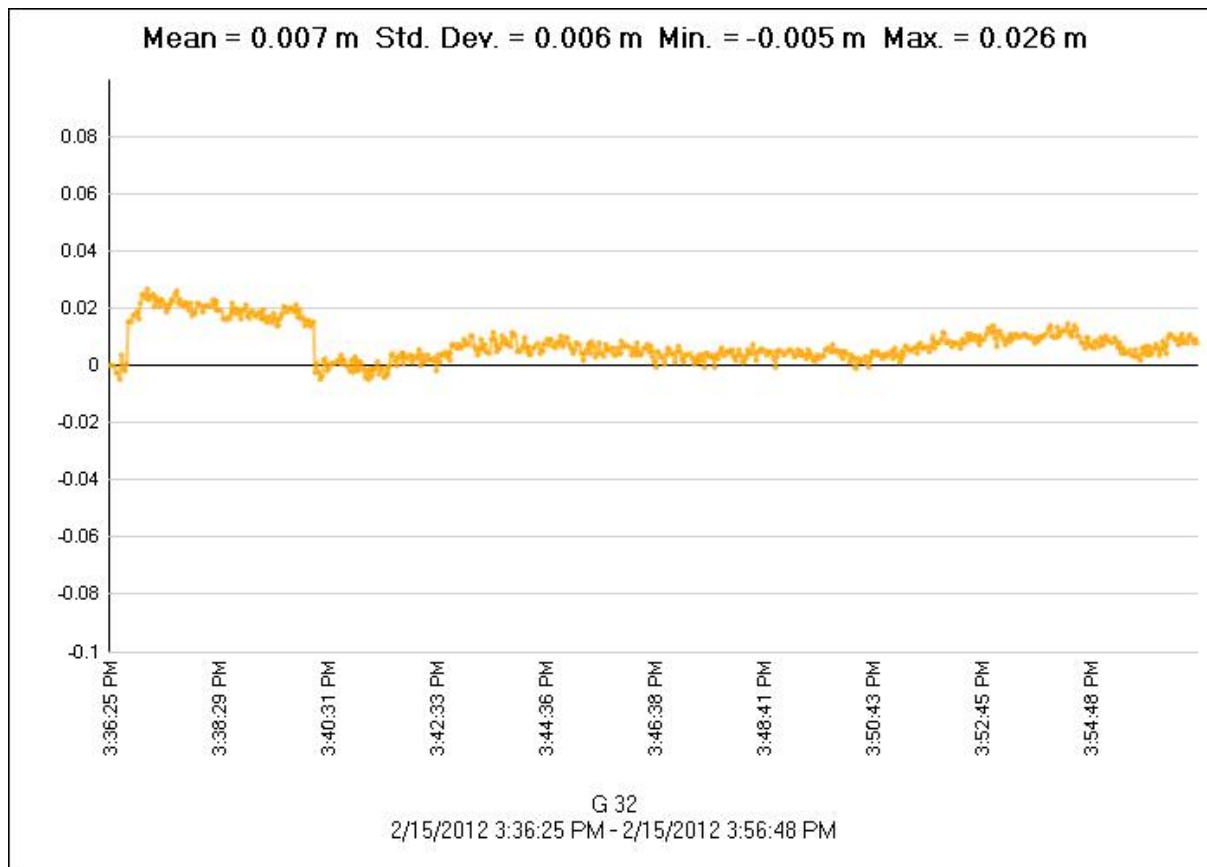
G 22
2/15/2012 3:36:25 PM - 2/15/2012 3:56:48 PM

Mean = -0.004 m Std. Dev. = 0.018 m Min. = -0.032 m Max. = 0.047 m



G 25
2/15/2012 3:36:25 PM - 2/15/2012 3:56:48 PM





Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0231 - SVA03-B1 (2:40:54 PM-3:00:48 PM) (S211)

Baseline observation: JH0231 --- SVA03-B1 (B211)

Processed: 3/21/2012 4:21:30 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.010 m

Vertical precision: 0.018 m

RMS: 0.003 m

Maximum PDOP: 2.460

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/16/2012 2:40:54 PM (Local: UTC-7hr)

Processing stop time: 2/16/2012 3:00:48 PM (Local: UTC-7hr)

Processing duration: 00:19:53

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0231				
Grid		Local		Global	
Easting	301332.716 m	Latitude	N38°09'44.37357"	Latitude	N38°09'44.37357"
Northing	4226255.595 m	Longitude	W101°16'03.57866"	Longitude	W101°16'03.57866"
Elevation	973.381 m	Height	948.724 m	Height	948.723 m

To:	SVA03-B1				
Grid		Local		Global	
Easting	292129.577 m	Latitude	N38°16'38.86793"	Latitude	N38°16'38.86792"
Northing	4239272.209 m	Longitude	W101°22'35.18036"	Longitude	W101°22'35.18036"
Elevation	1017.343 m	Height	992.993 m	Height	992.993 m

Vector					
9Ughb[	-9203.139 m	NS Fwd Azimuth	323°20'06"	L	-7795.972 m
BcfA\jb[	13016.614 m	Ellipsoid Dist.	15939.719 m	M	9590.536 m
9Yj Uhcb	43.962 m	<Y][\h	44.269 m	N	10069.675 m

Standard Errors

Vector errors:					
Ughb[	0.003 m	BG`Zk X'5n]a i h	0°00'00"	L	0.004 m
Bcfh\]b[	0.004 m	'9~]dgc]X'8]gh	0.004 m	M	0.006 m
'9`Yj Uhcb	0.009 m	' <Y][\h	0.009 m	N	0.007 m

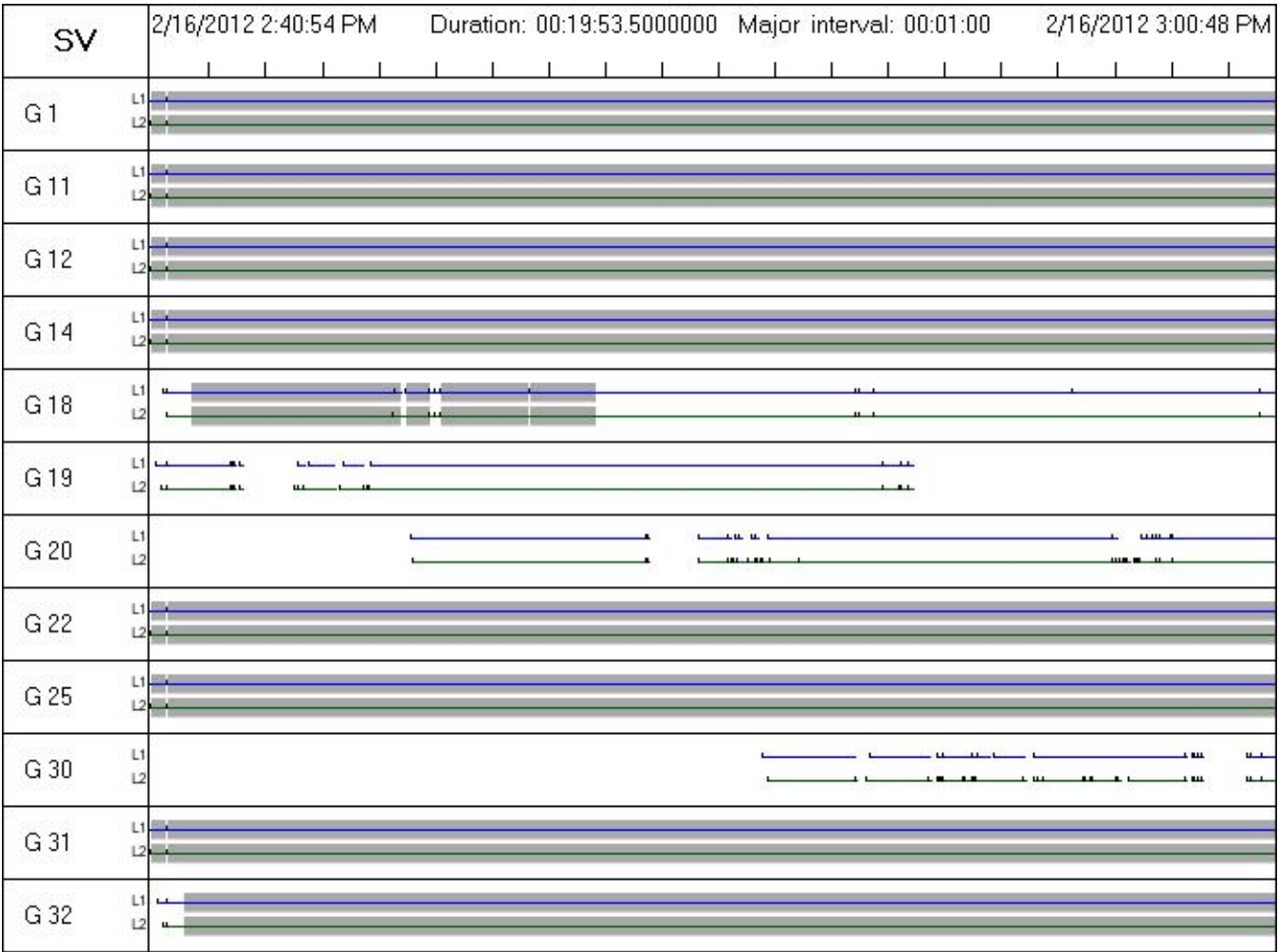
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000142600		
Y	0.0000135785	0.0000421417	
Z	-0.0000098549	-0.0000336549	0.0000527451

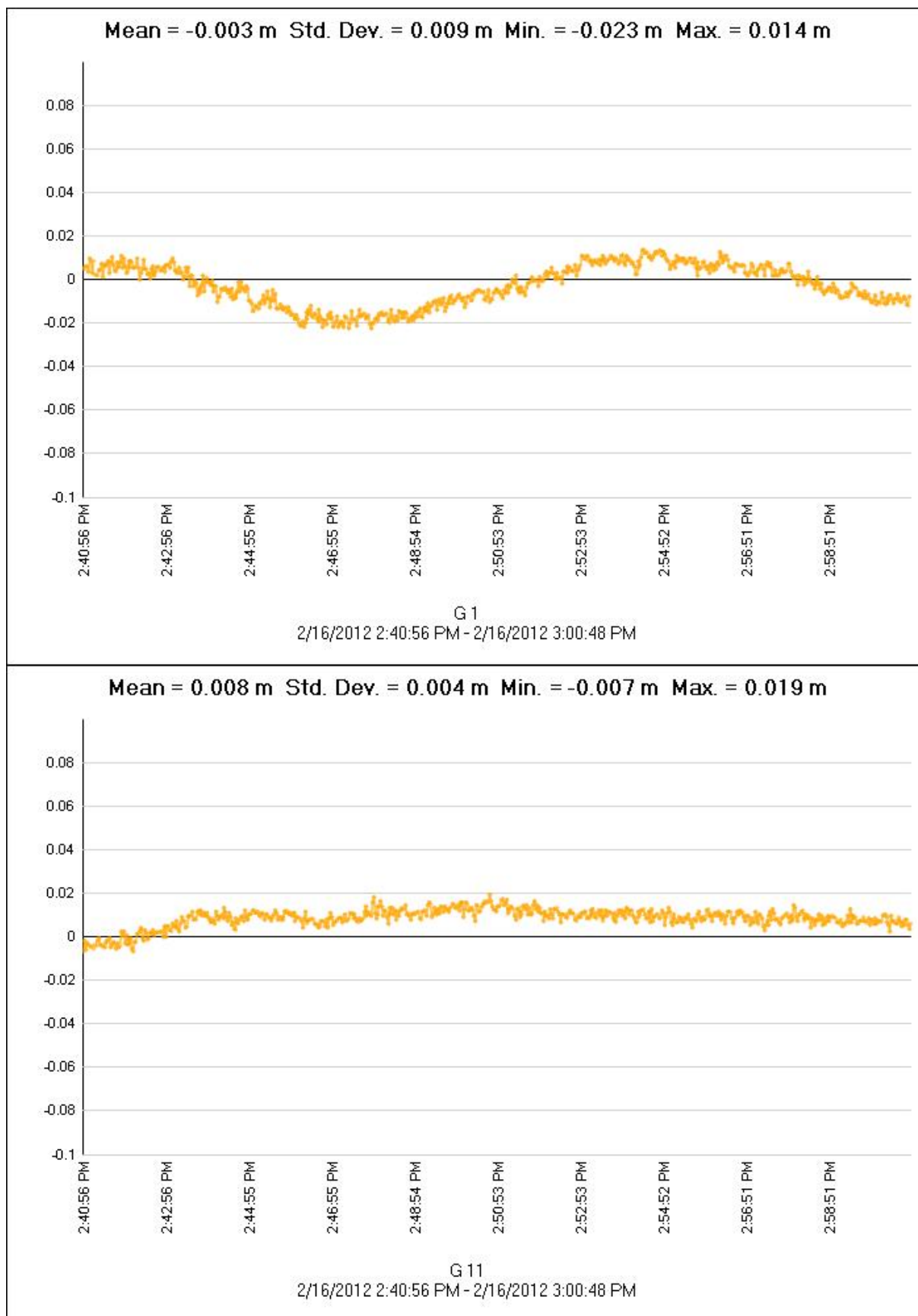
Occupations

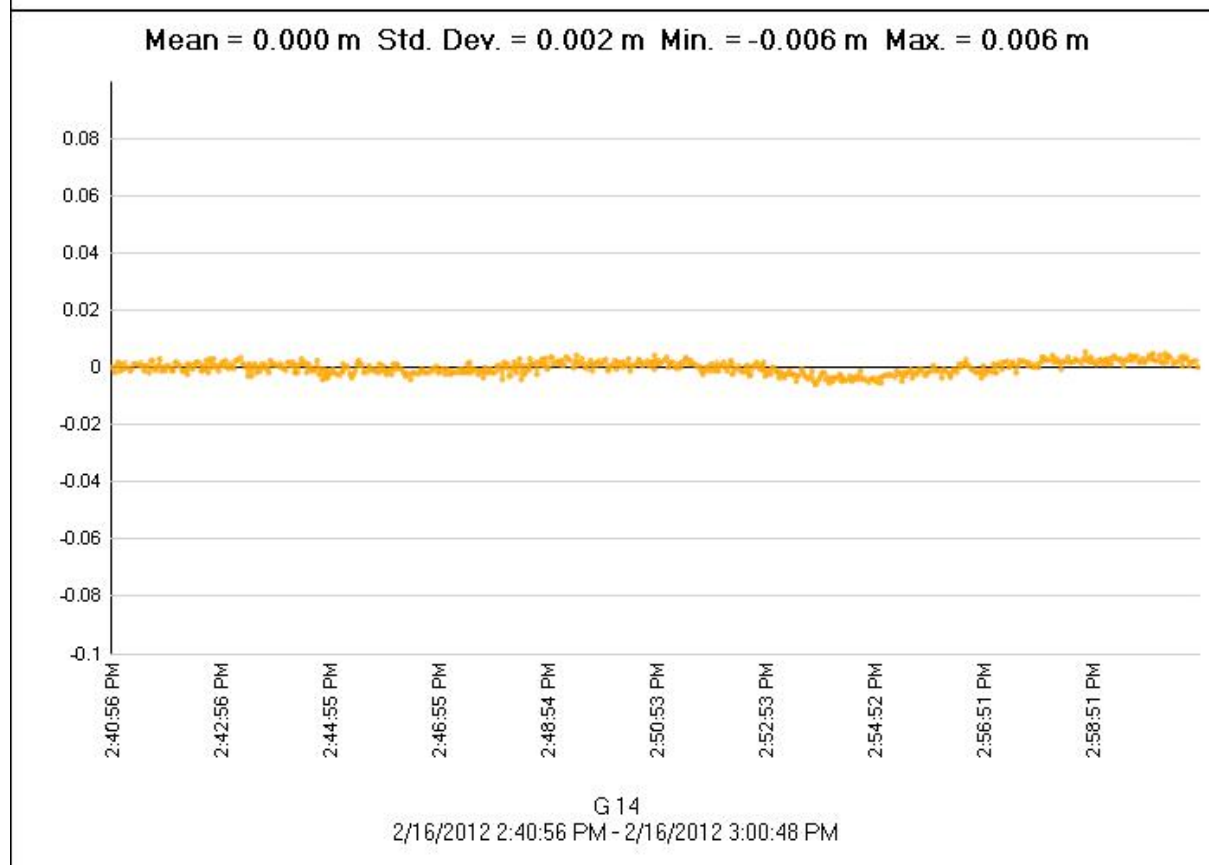
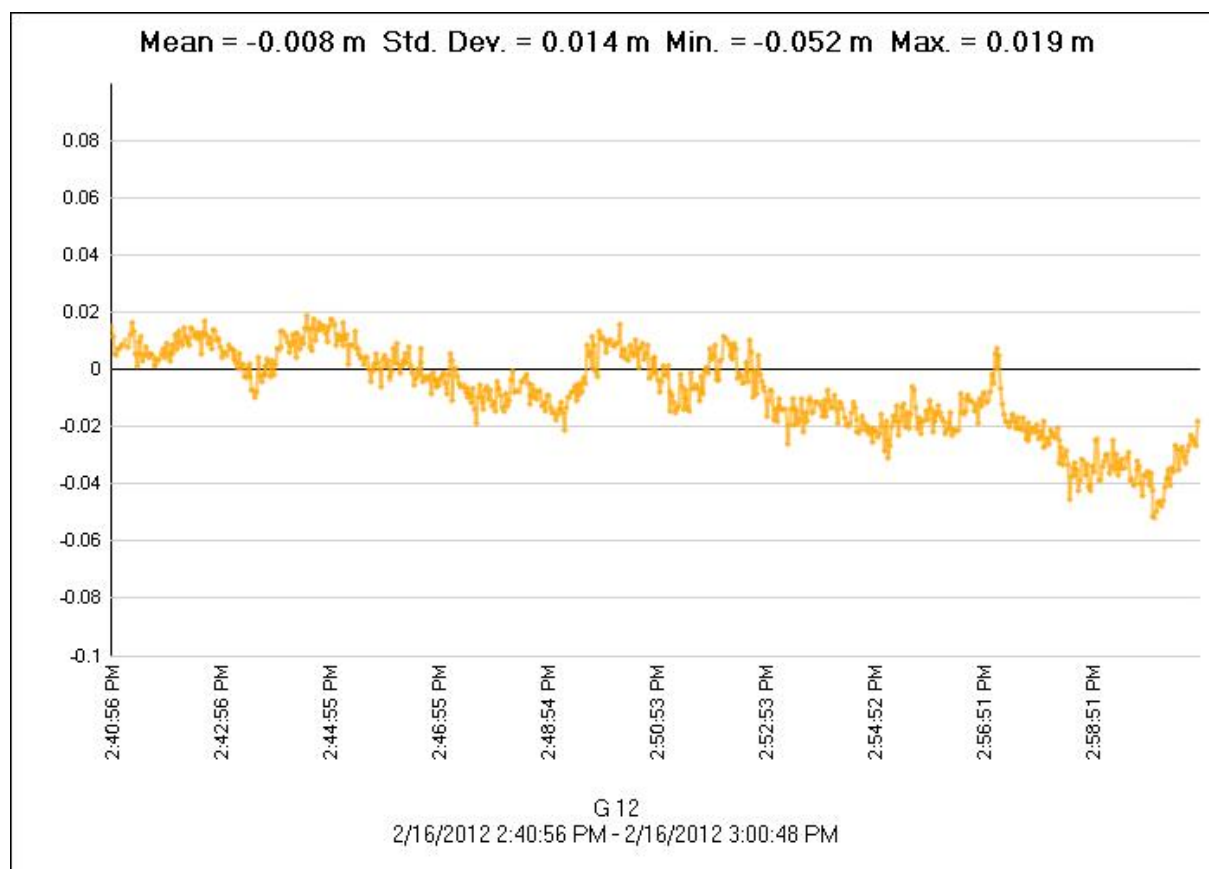
	From	To
Point ID:	JH0231	SVA03-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00030470.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080475.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	2.065 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

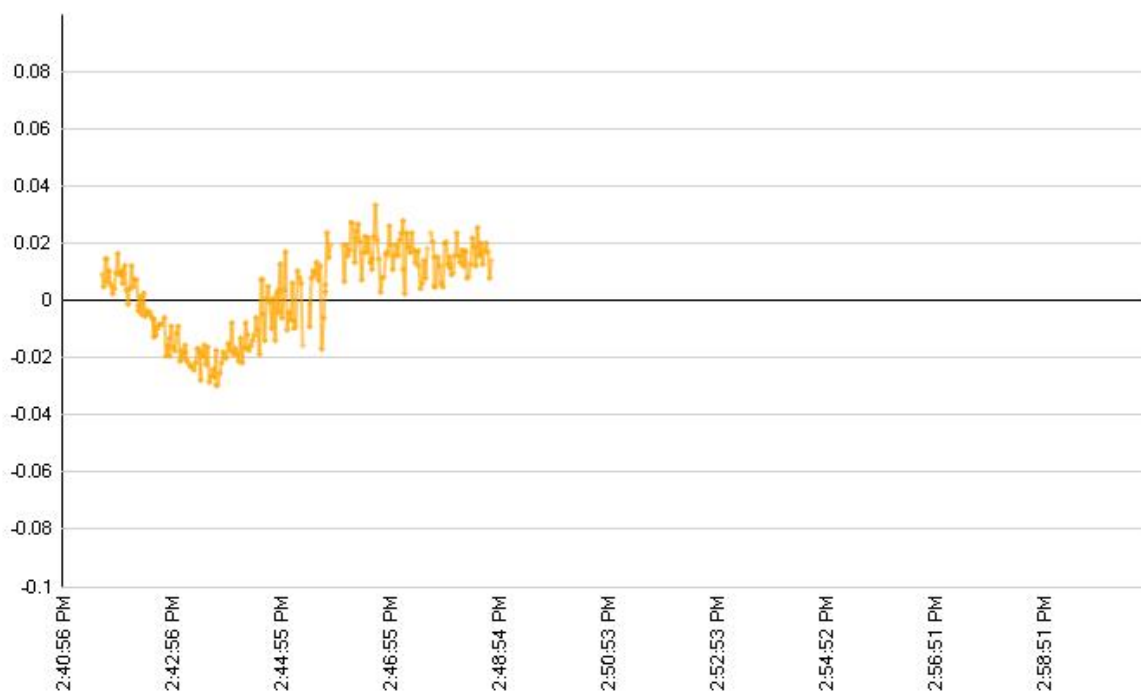


Residuals





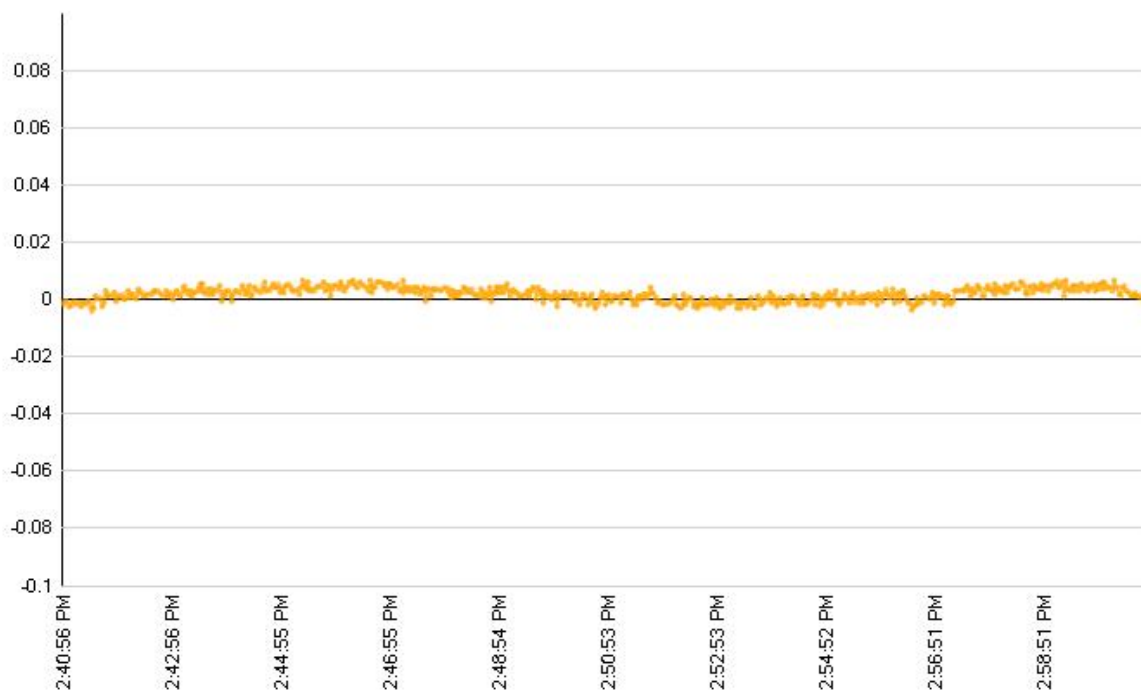
Mean = 0.002 m Std. Dev. = 0.014 m Min. = -0.030 m Max. = 0.034 m



G 18

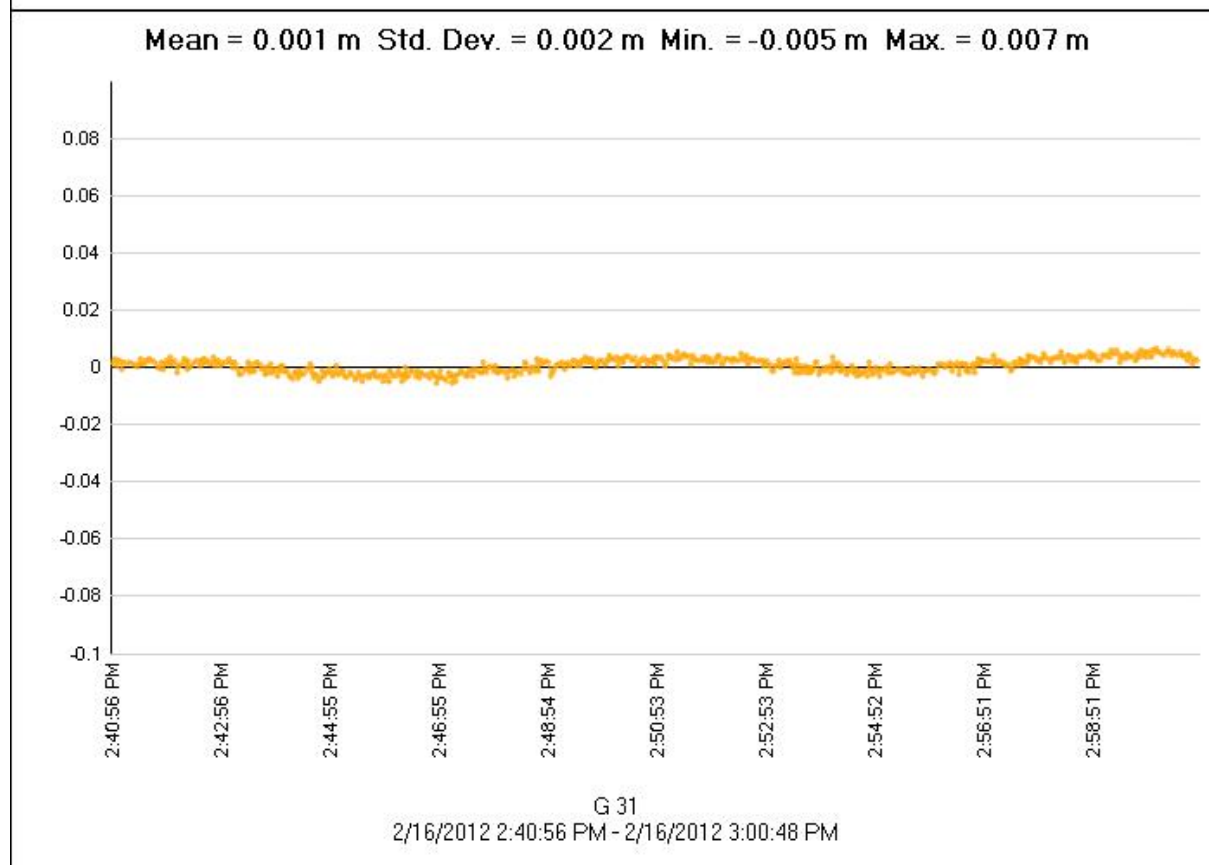
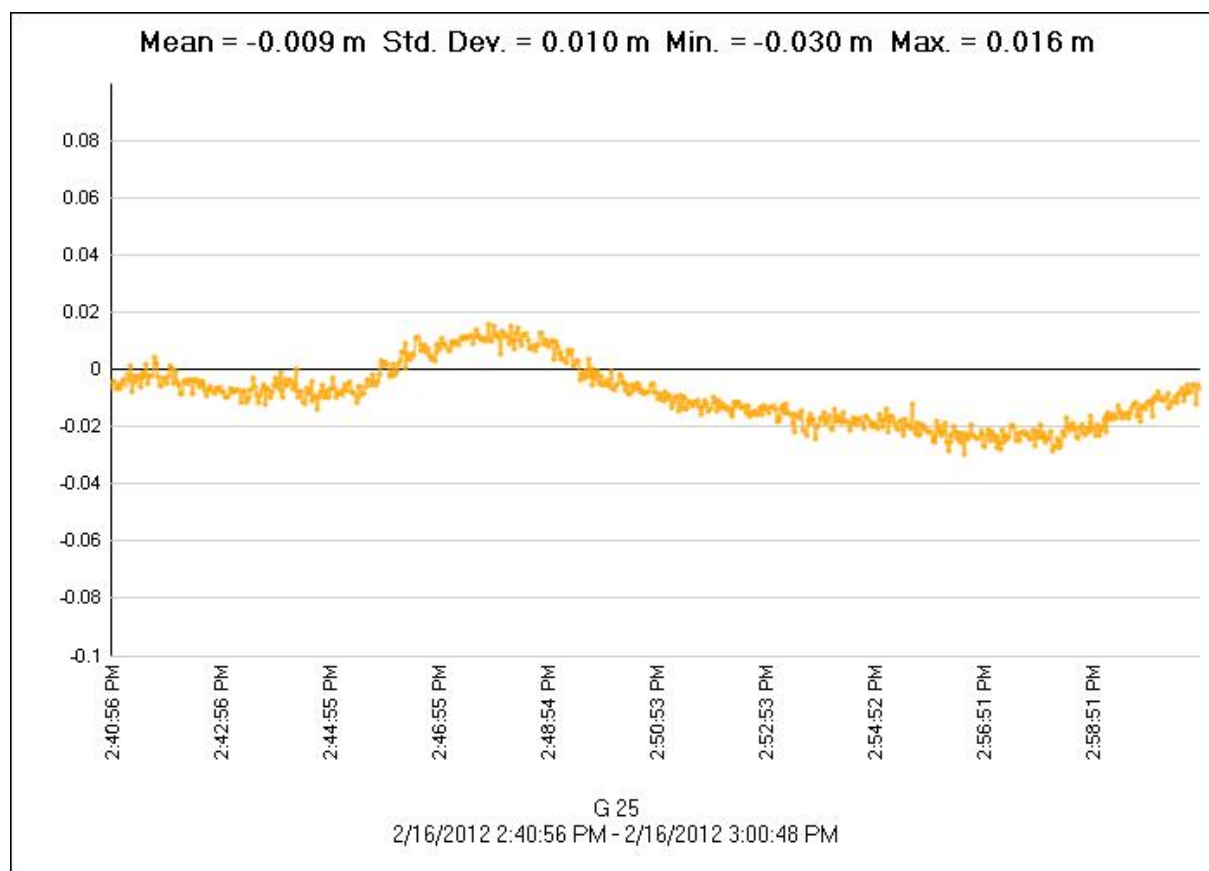
2/16/2012 2:40:56 PM - 2/16/2012 3:00:48 PM

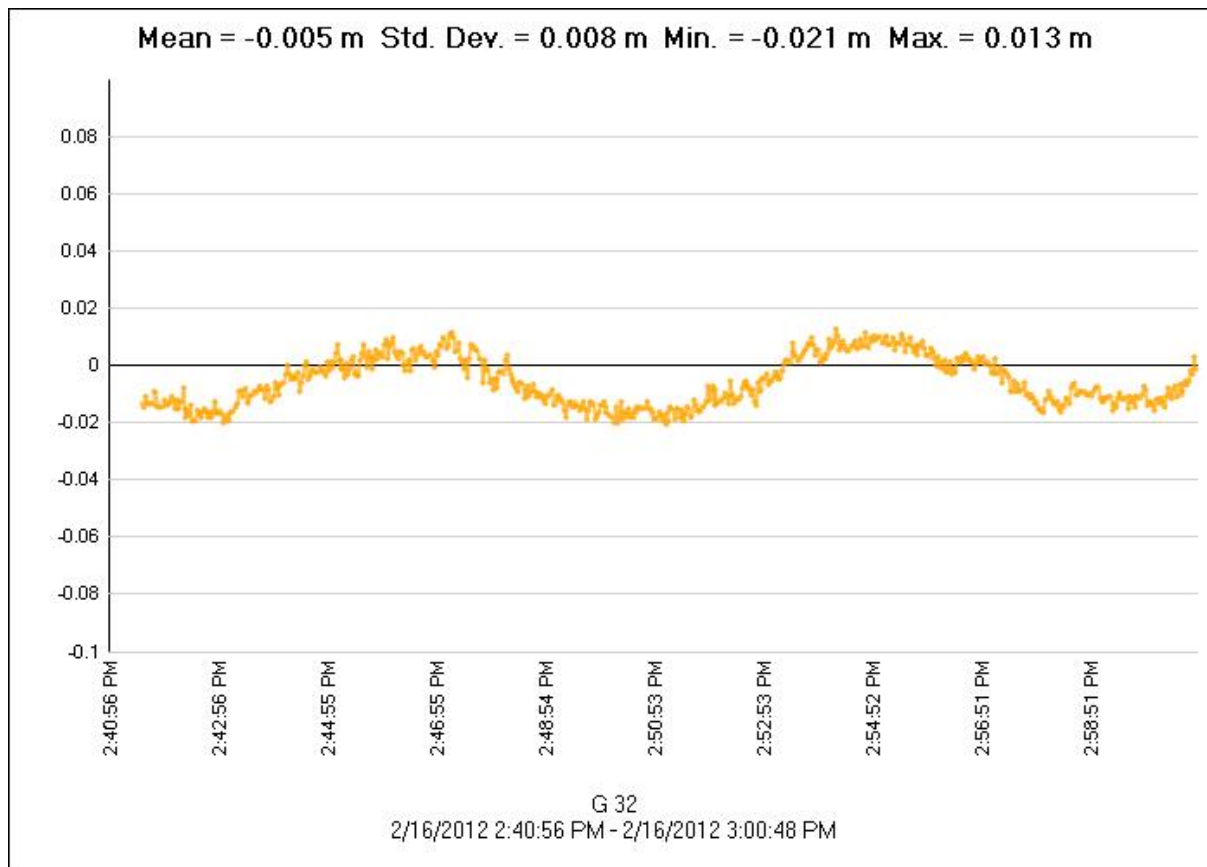
Mean = 0.002 m Std. Dev. = 0.002 m Min. = -0.004 m Max. = 0.007 m



G 22

2/16/2012 2:40:56 PM - 2/16/2012 3:00:48 PM







Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0231 - FVA03-B1 (2:16:24 PM-2:35:37 PM) (S212)

Baseline observation: JH0231 --- FVA03-B1 (B212)

Processed: 3/21/2012 4:21:33 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.033 m

Vertical precision: 0.040 m

RMS: 0.004 m

Maximum PDOP: 1.876

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/16/2012 2:16:24 PM (Local: UTC-7hr)

Processing stop time: 2/16/2012 2:35:37 PM (Local: UTC-7hr)

Processing duration: 00:19:13

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0231				
Grid		Local		Global	
Easting	301332.716 m	Latitude	N38°09'44.37357"	Latitude	N38°09'44.37357"
Northing	4226255.595 m	Longitude	W101°16'03.57866"	Longitude	W101°16'03.57866"
Elevation	973.381 m	Height	948.724 m	Height	948.723 m

To:	FVA03-B1				
Grid		Local		Global	
Easting	292161.573 m	Latitude	N38°16'42.61708"	Latitude	N38°16'42.61708"
Northing	4239387.040 m	Longitude	W101°22'33.98596"	Longitude	W101°22'33.98596"
Elevation	1017.390 m	Height	993.042 m	Height	993.042 m

Vector					
9Ughb[	-9171.143 m	NS Fwd Azimuth	323°39'56"	L	-7753.387 m
Bcfh\jb[	13131.446 m	Ellipsoid Dist.	16015.270 m	M	9654.988 m
9`Yj Uhcb	44.009 m	<Y][\h	44.318 m	N	10160.467 m

Standard Errors

Vector errors:					
Point ID	0.011 m	Point Description	0°00'00"	Point Type	0.012 m
Point ID	0.012 m	Point Description	0.009 m	Point Type	0.017 m
Point ID	0.020 m	Point Description	0.020 m	Point Type	0.015 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001445333		
Y	0.0001005283	0.0002831889	
Z	-0.0000124991	-0.0001235720	0.0002383648

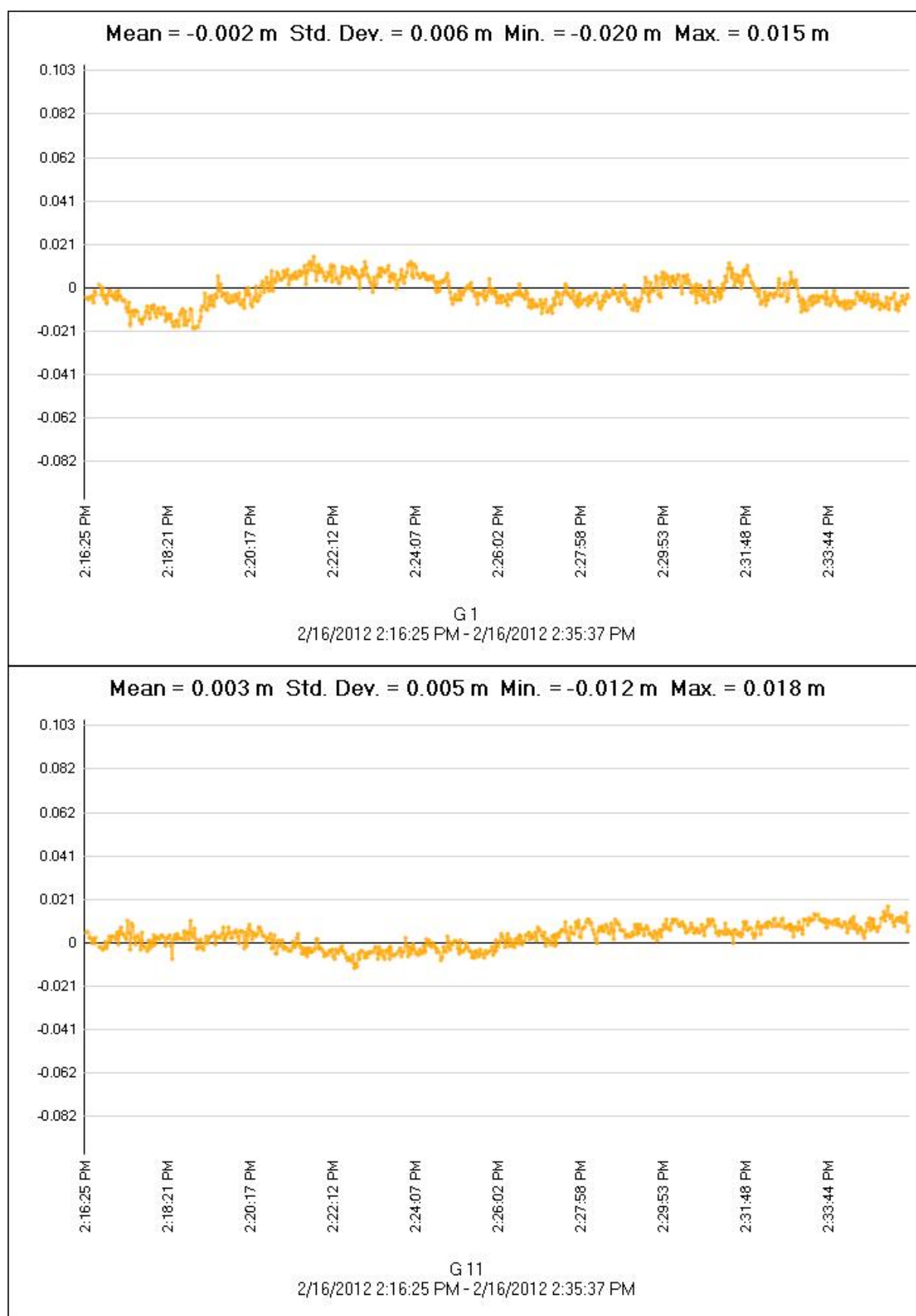
Occupations

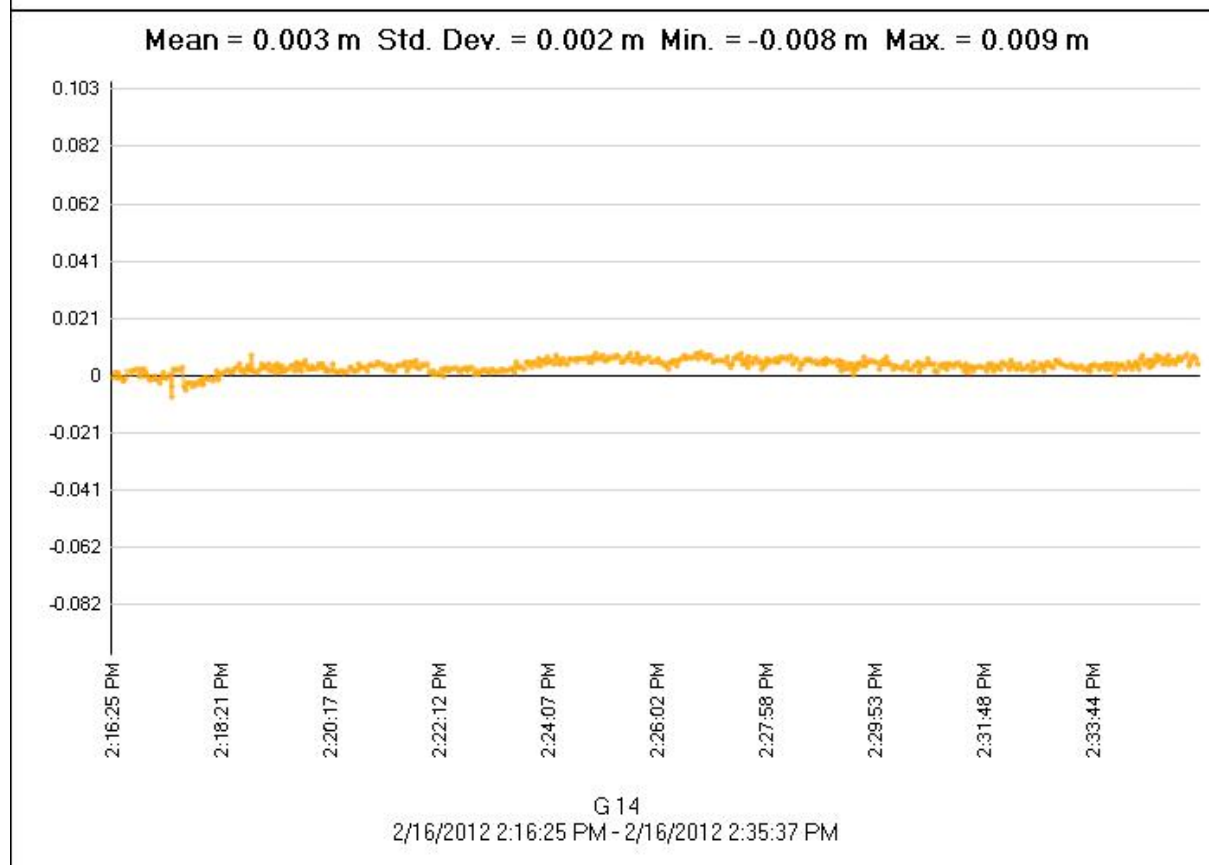
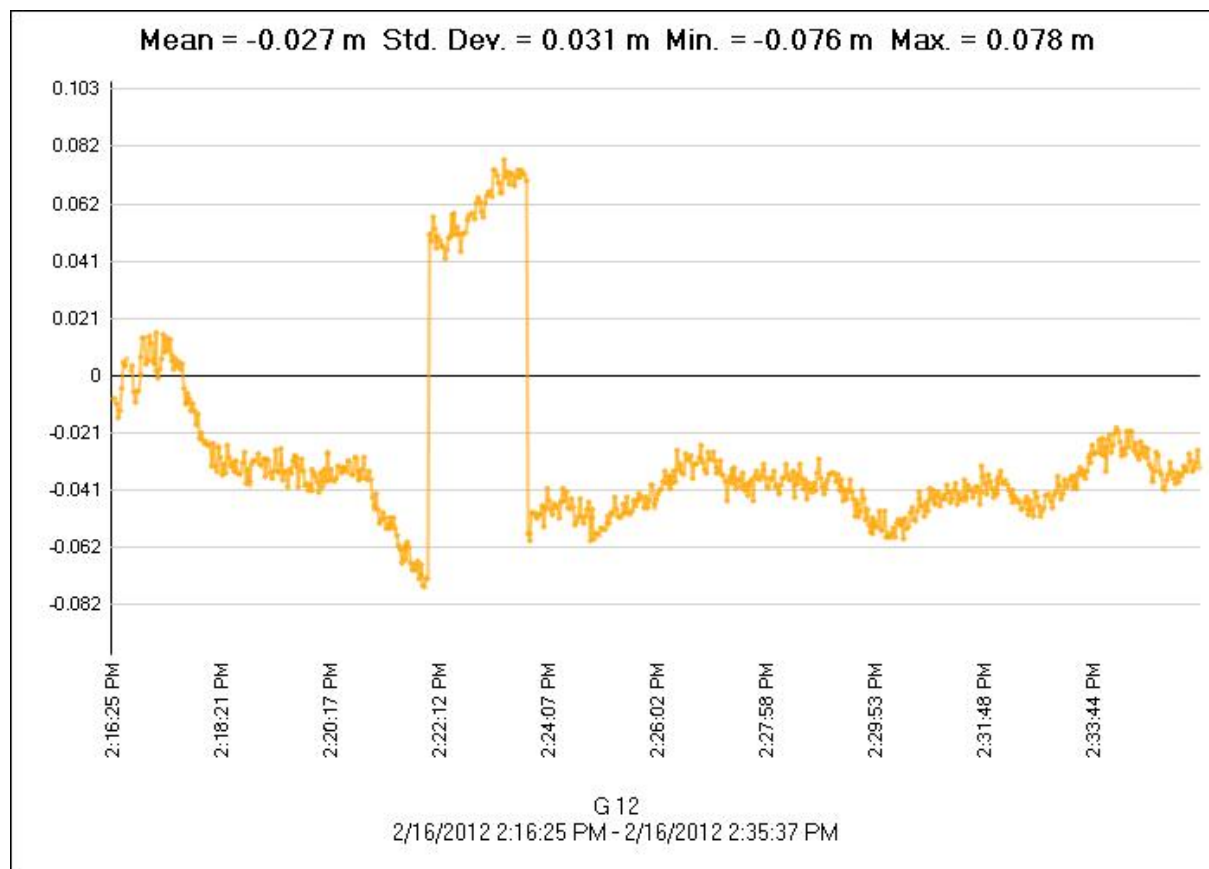
	From	To
Point ID:	JH0231	FVA03-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00030470.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080474.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	2.065 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

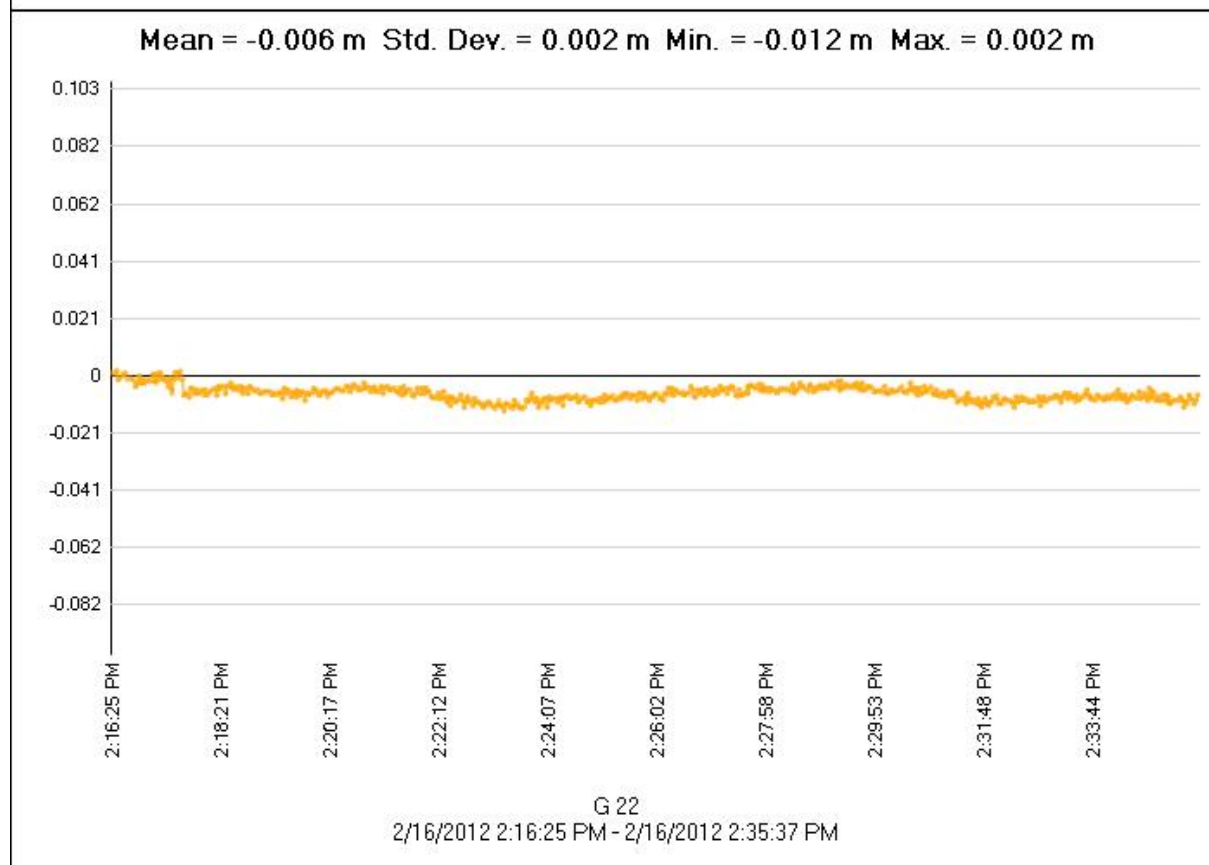
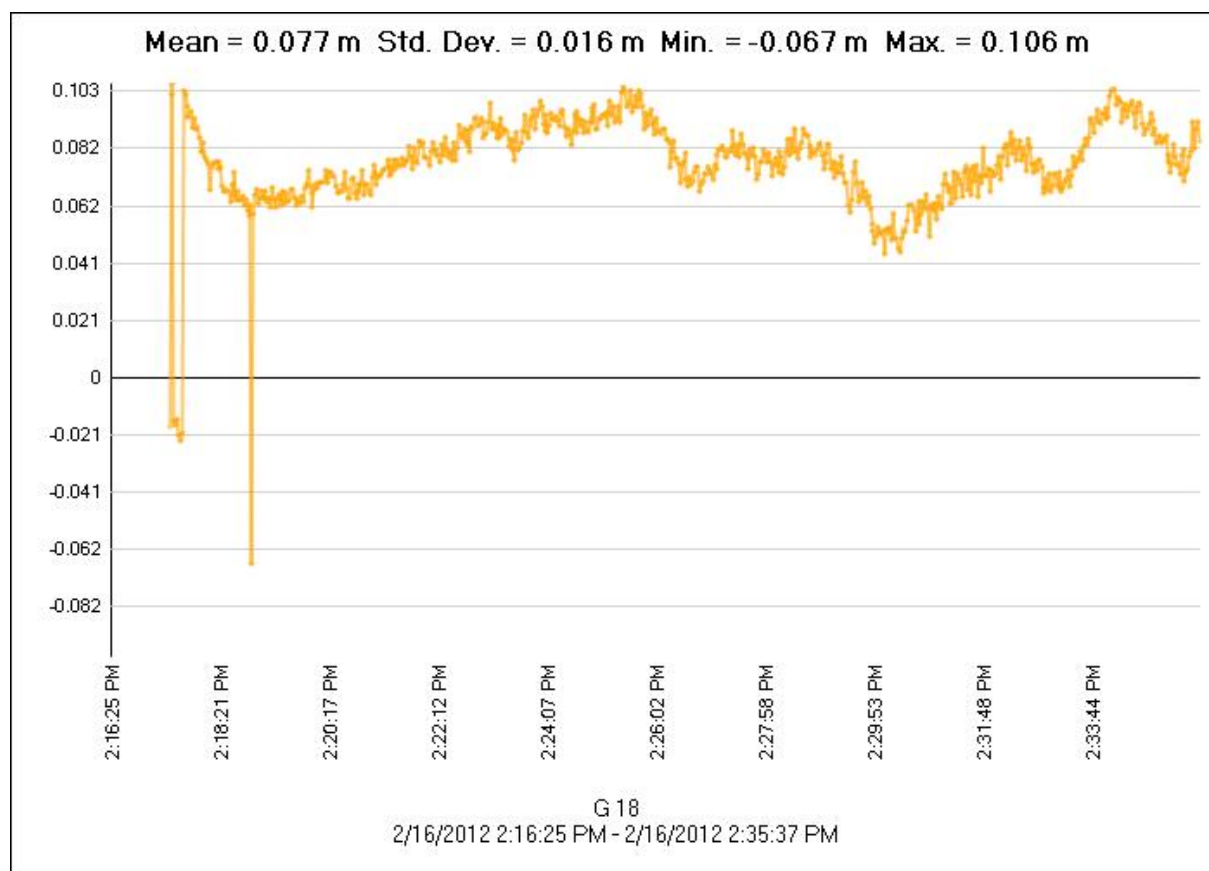
Tracking Summary

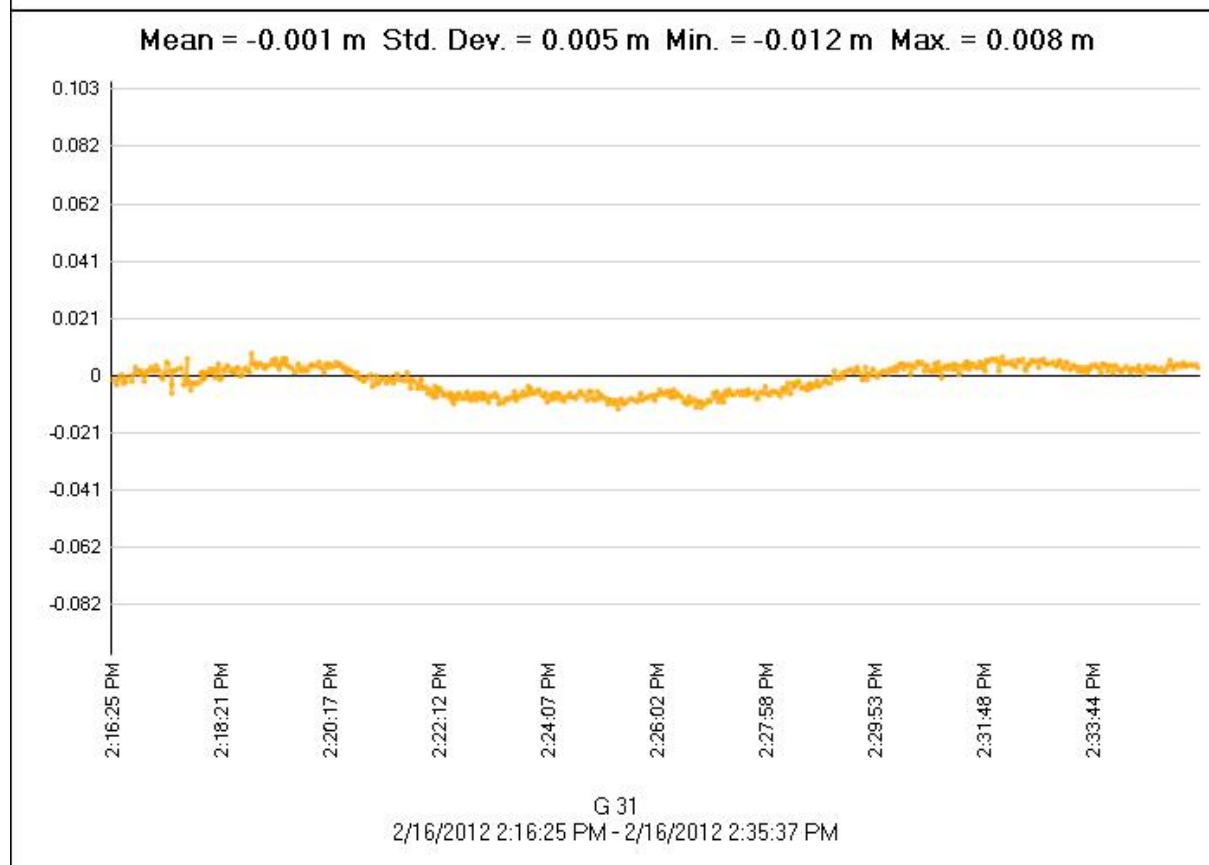
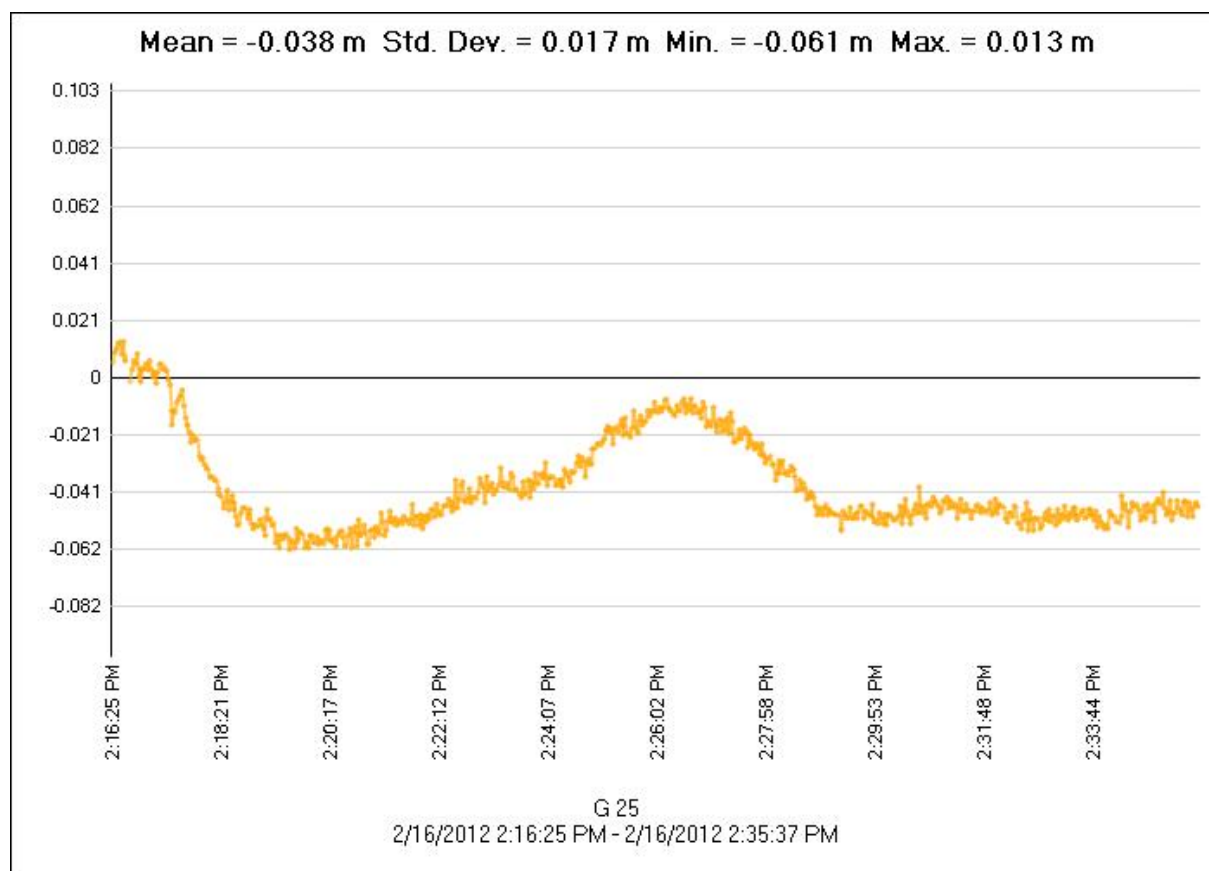
SV	2/16/2012 2:16:24 PM	Duration: 00:19:13 Major interval: 00:01:00	2/16/2012 2:35:37 PM
G1			
G9			
G11			
G12			
G14			
G18			
G19			
G22			
G25			
G31			
G32			

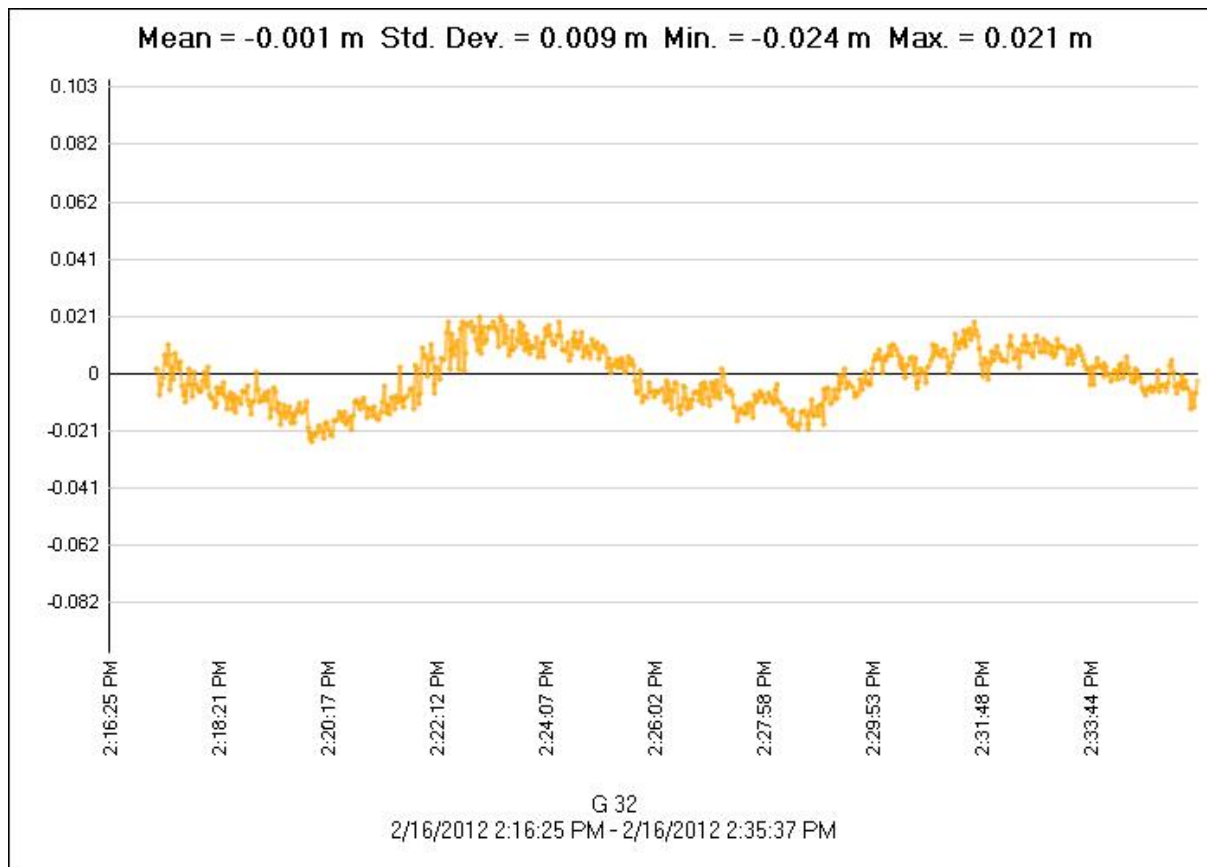
Residuals











Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0231 - SVA06-B1 (1:35:31 PM-1:56:02 PM) (S213)

Baseline observation: JH0231 --- SVA06-B1 (B213)

Processed: 3/21/2012 4:21:37 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.012 m

Vertical precision: 0.013 m

RMS: 0.002 m

Maximum PDOP: 1.891

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/16/2012 1:35:31 PM (Local: UTC-7hr)

Processing stop time: 2/16/2012 1:56:02 PM (Local: UTC-7hr)

Processing duration: 00:20:30

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0231				
Grid		Local		Global	
Easting	301332.716 m	Latitude	N38°09'44.37357"	Latitude	N38°09'44.37357"
Northing	4226255.595 m	Longitude	W101°16'03.57866"	Longitude	W101°16'03.57866"
Elevation	973.381 m	Height	948.724 m	Height	948.723 m

To:	SVA06-B1				
Grid		Local		Global	
Easting	293232.885 m	Latitude	N38°09'16.15216"	Latitude	N38°09'16.15216"
Northing	4225587.276 m	Longitude	W101°21'35.46046"	Longitude	W101°21'35.46046"
Elevation	995.430 m	Height	970.792 m	Height	970.792 m

Vector					
9Ughb[	-8099.831 m	NS Fwd Azimuth	263°52'54"	L	-8032.843 m
Bcfh\jb[	-668.319 m	Ellipsoid Dist.	8126.493 m	M	1041.078 m
9Yj Uhcb	22.050 m	<Y][\h	22.068 m	N	-670.677 m

Standard Errors

Vector errors:					
σ _{Ughb}	0.004 m	σ _{BG'Zk X'5nJa i h}	0°00'00"	σ _L	0.004 m
σ _{Bcfh}	0.005 m	σ _{'9''dgc]X'8]gh}	0.004 m	σ _M	0.007 m
σ _{'9'Yj Uhcb}	0.007 m	σ _{' <Y][\h}	0.007 m	σ _N	0.005 m

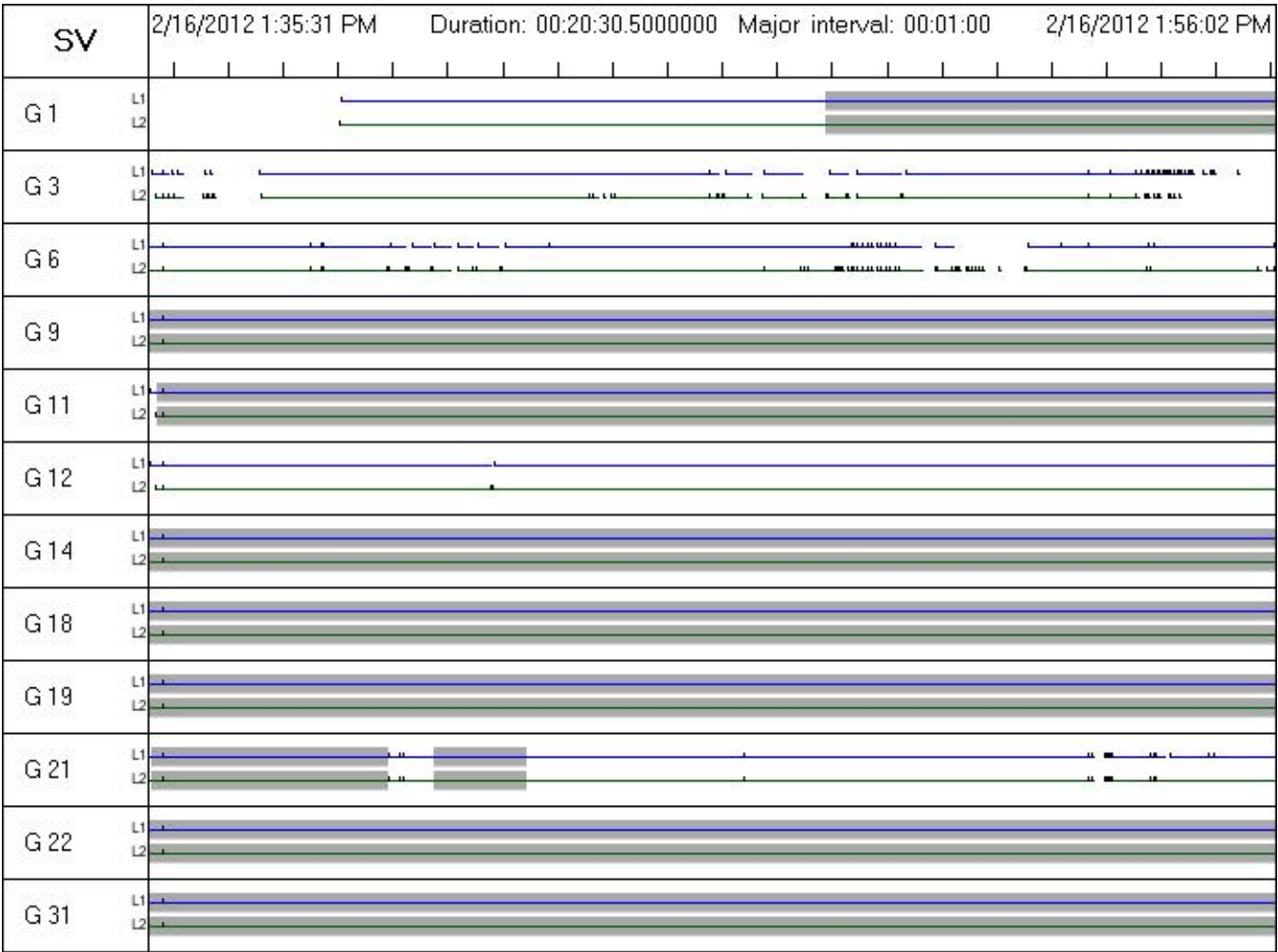
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000159299		
Y	0.0000080160	0.0000424722	
Z	-0.0000003564	-0.0000070894	0.0000237862

Occupations

	From	To
Point ID:	JH0231	SVA06-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00030470.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080473.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	2.065 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary



Residuals

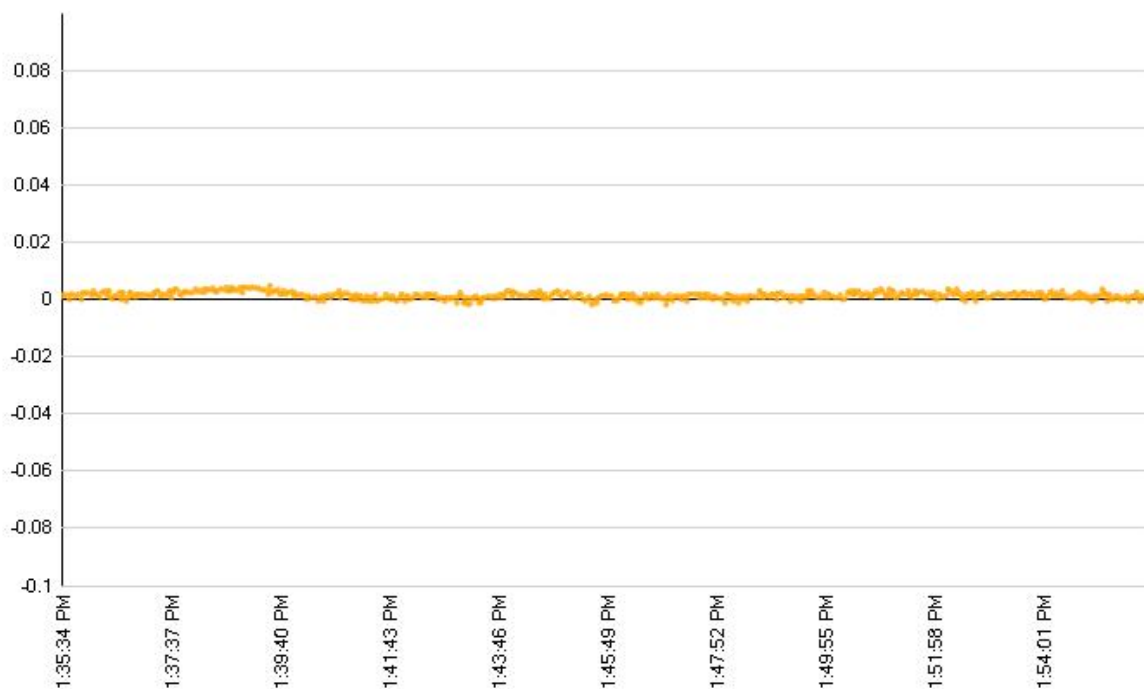


Mean = 0.001 m Std. Dev. = 0.010 m Min. = -0.018 m Max. = 0.025 m

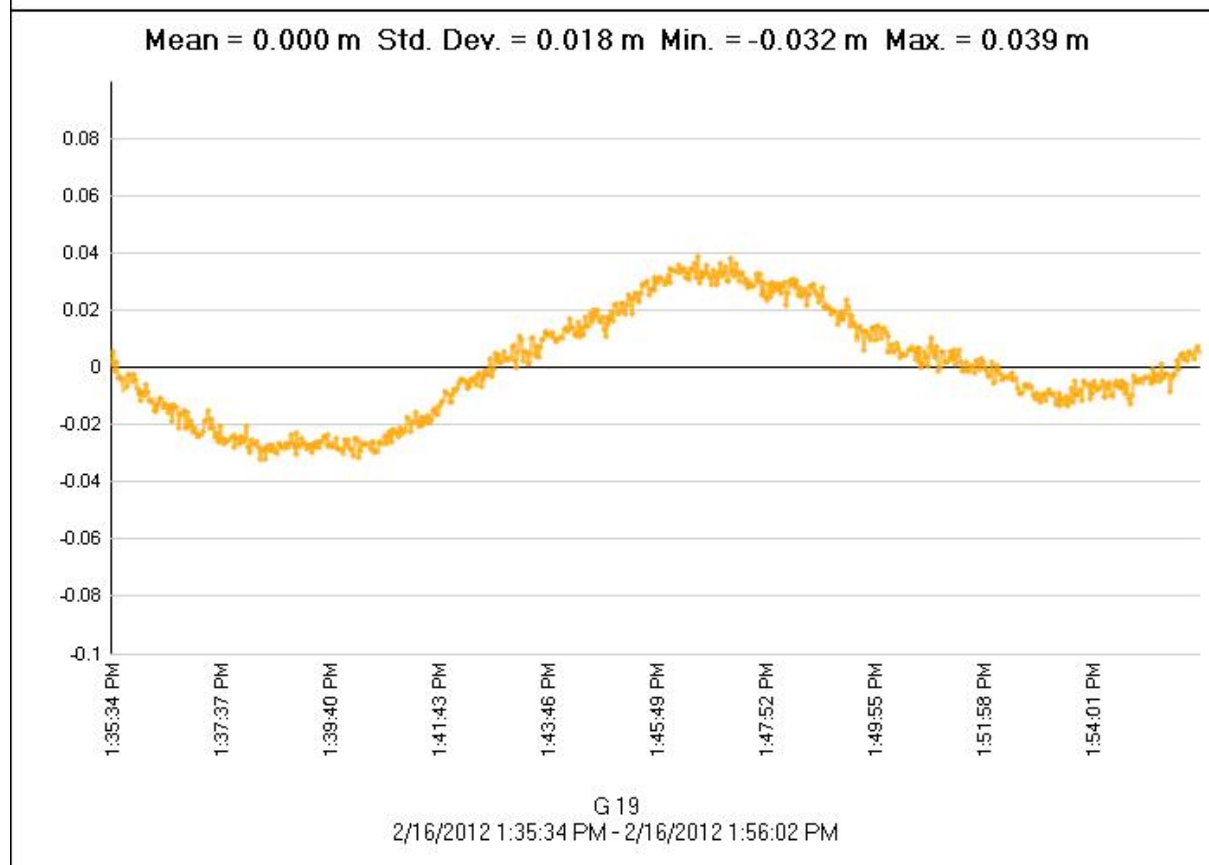
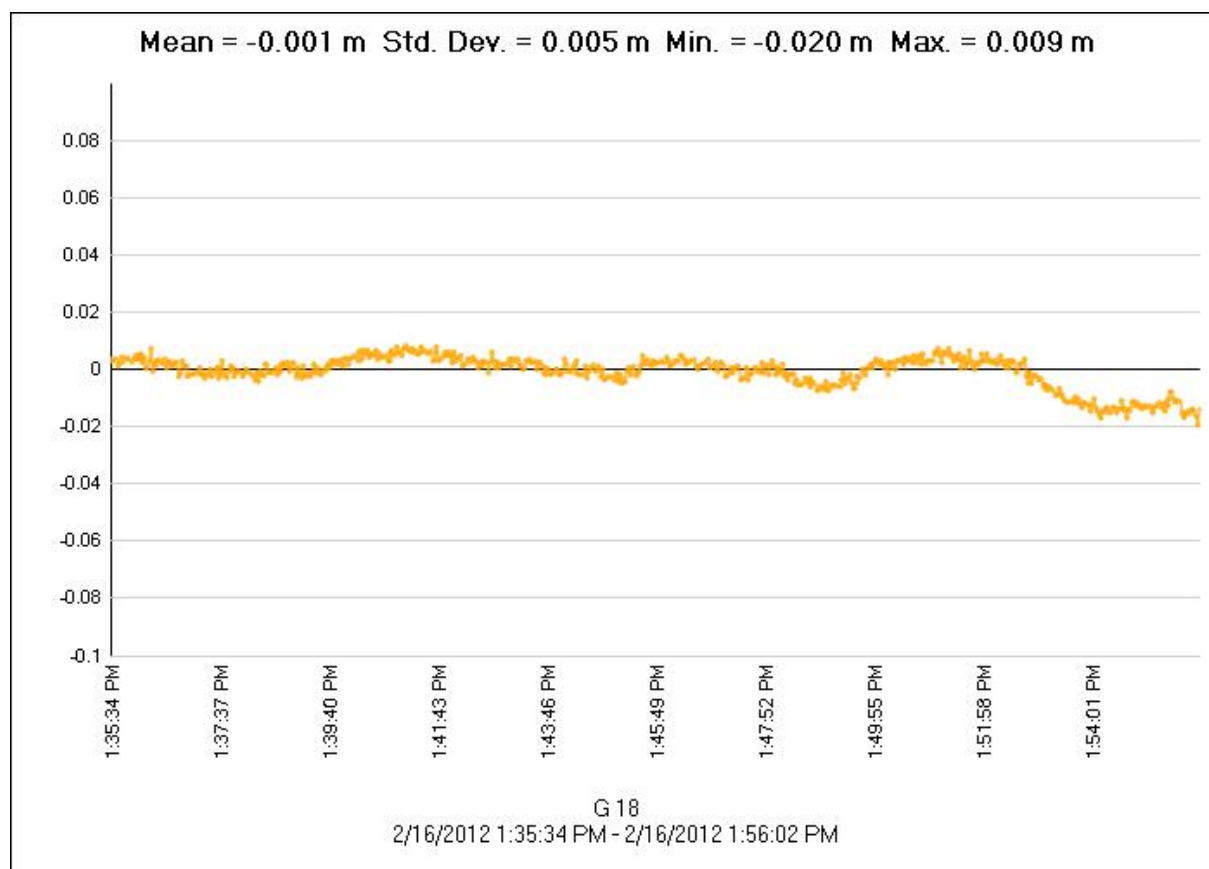


G 11
2/16/2012 1:35:34 PM - 2/16/2012 1:56:02 PM

Mean = 0.001 m Std. Dev. = 0.001 m Min. = -0.002 m Max. = 0.005 m



G 14
2/16/2012 1:35:34 PM - 2/16/2012 1:56:02 PM

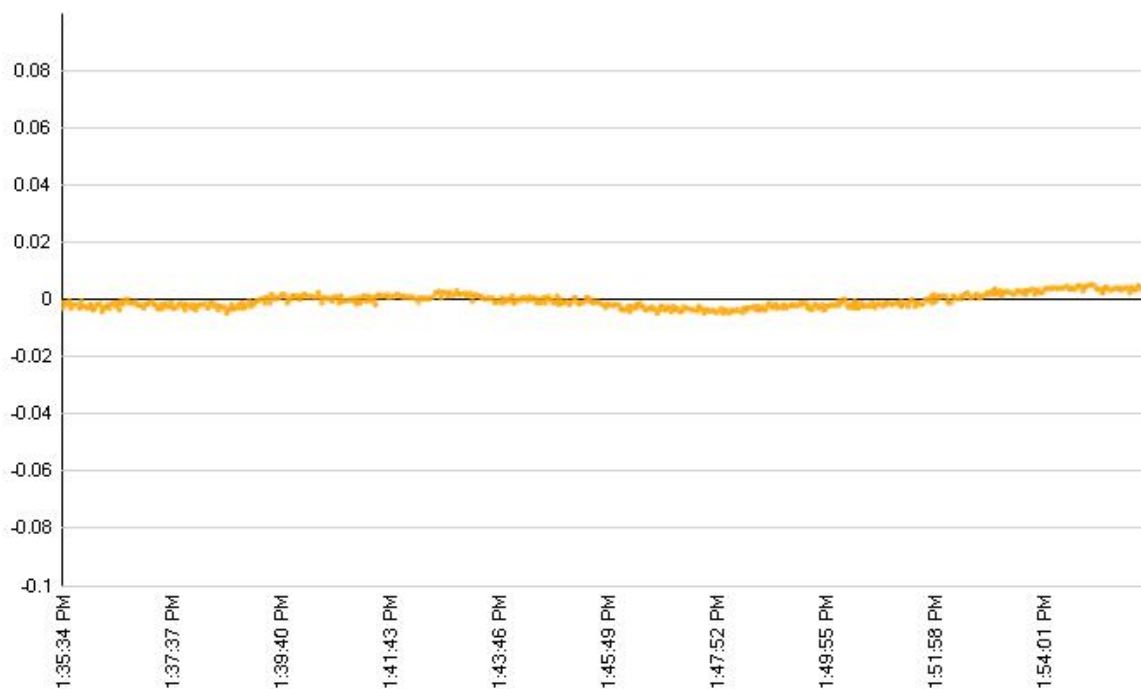


Mean = 0.005 m Std. Dev. = 0.009 m Min. = -0.017 m Max. = 0.034 m

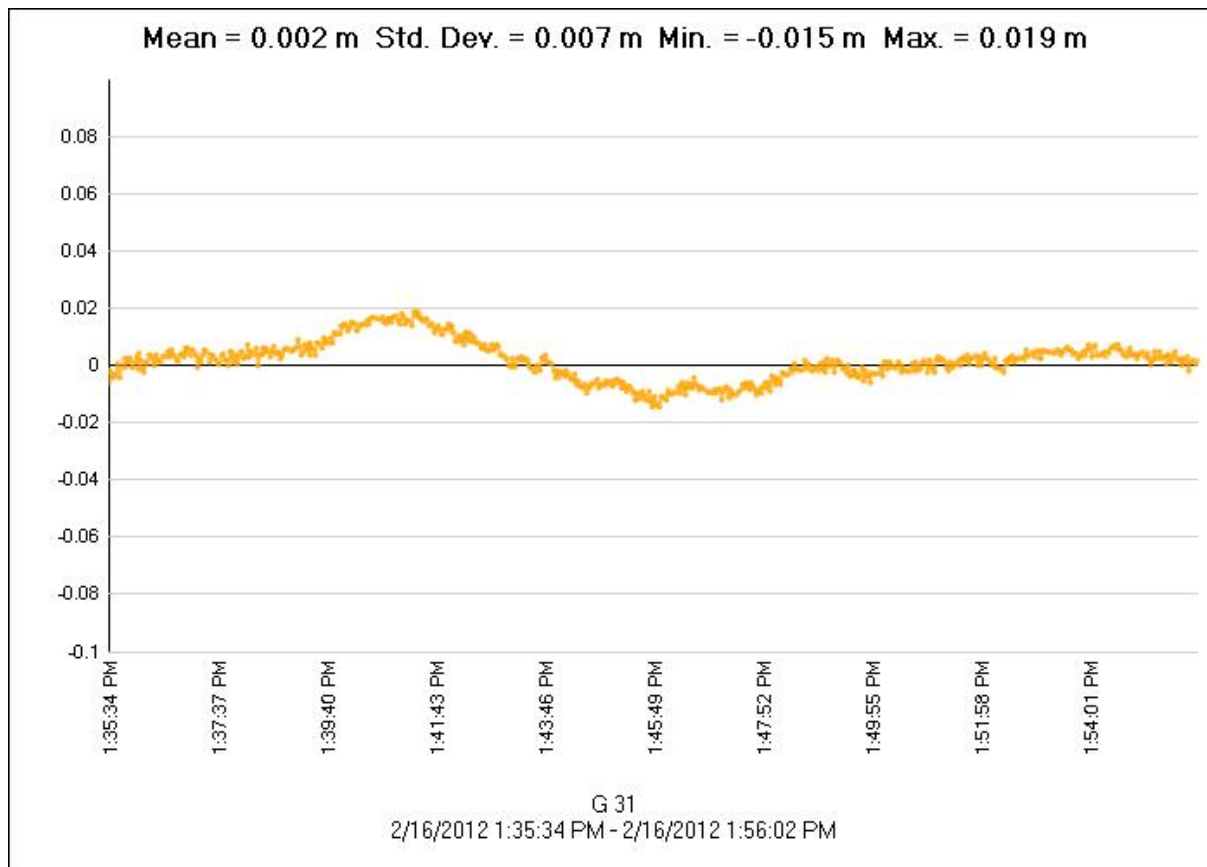


G 21
2/16/2012 1:35:34 PM - 2/16/2012 1:56:02 PM

Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.005 m Max. = 0.005 m




G 22
2/16/2012 1:35:34 PM - 2/16/2012 1:56:02 PM



Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0231 - FVA06-B1 (1:09:00 PM-1:30:39 PM) (S214)

Baseline observation:	JH0231 --- FVA06-B1 (B214)
Processed:	3/21/2012 4:21:33 PM
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0.012 m
Vertical precision:	0.013 m
RMS:	0.002 m
Maximum PDOP:	1.813
Ephemeris used:	Broadcast
Antenna model:	US National Geodetic Survey Calibration
Processing start time:	2/16/2012 1:09:00 PM (Local: UTC-7hr)
Processing stop time:	2/16/2012 1:30:39 PM (Local: UTC-7hr)
Processing duration:	00:21:39
Processing interval:	.5 second

Vector Components (Mark to Mark)

From:	JH0231				
Grid		Local		Global	
Easting	301332.716 m	Latitude	N38°09'44.37357"	Latitude	N38°09'44.37357"
Northing	4226255.595 m	Longitude	W101°16'03.57866"	Longitude	W101°16'03.57866"
Elevation	973.381 m	Height	948.724 m	Height	948.723 m

To:	FVA06-B1				
Grid		Local		Global	
Easting	293340.018 m	Latitude	N38°09'15.17119"	Latitude	N38°09'15.17119"
Northing	4225554.289 m	Longitude	W101°21'31.02766"	Longitude	W101°21'31.02766"
Elevation	994.594 m	Height	969.954 m	Height	969.954 m

Vector					
9Ughb[	-7992.699 m	NS Fwd Azimuth	263°35'02"	L	-7930.569 m
Bcfh\jb[	-701.305 m	Ellipsoid Dist.	8022.557 m	M	1002.141 m
9Yj Uhcb	21.214 m	<Y][\h	21.231 m	N	-694.982 m

Standard Errors

Vector errors:

Point ID	0.003 m	Point Description	0°00'00"	Point Type	0.003 m
Point B	0.005 m	Point C	0.003 m	Point D	0.007 m
Point E	0.007 m	Point F	0.007 m	Point G	0.005 m

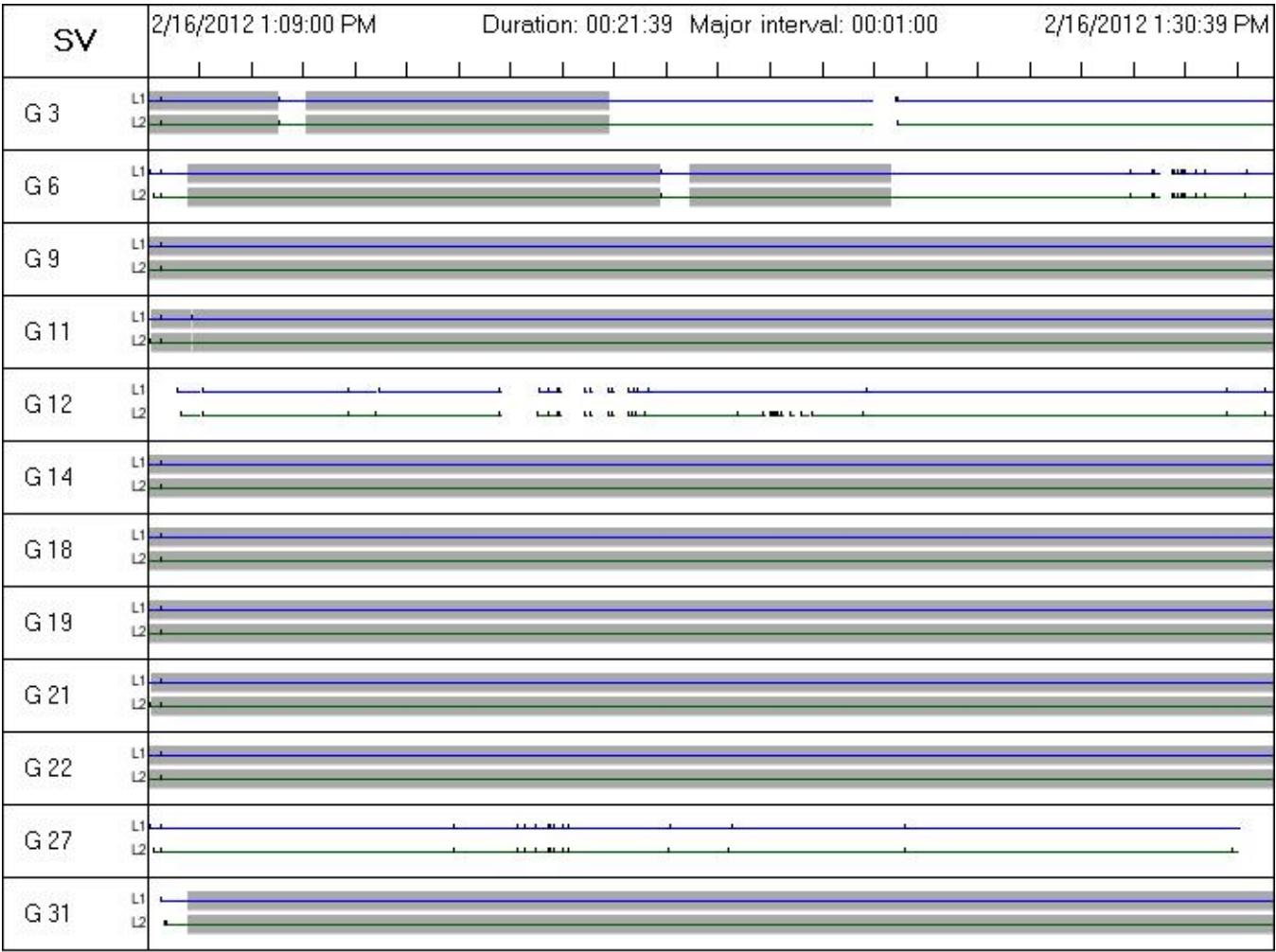
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000105204		
Y	0.0000023469	0.0000439471	
Z	-0.0000007742	-0.0000081439	0.0000226127

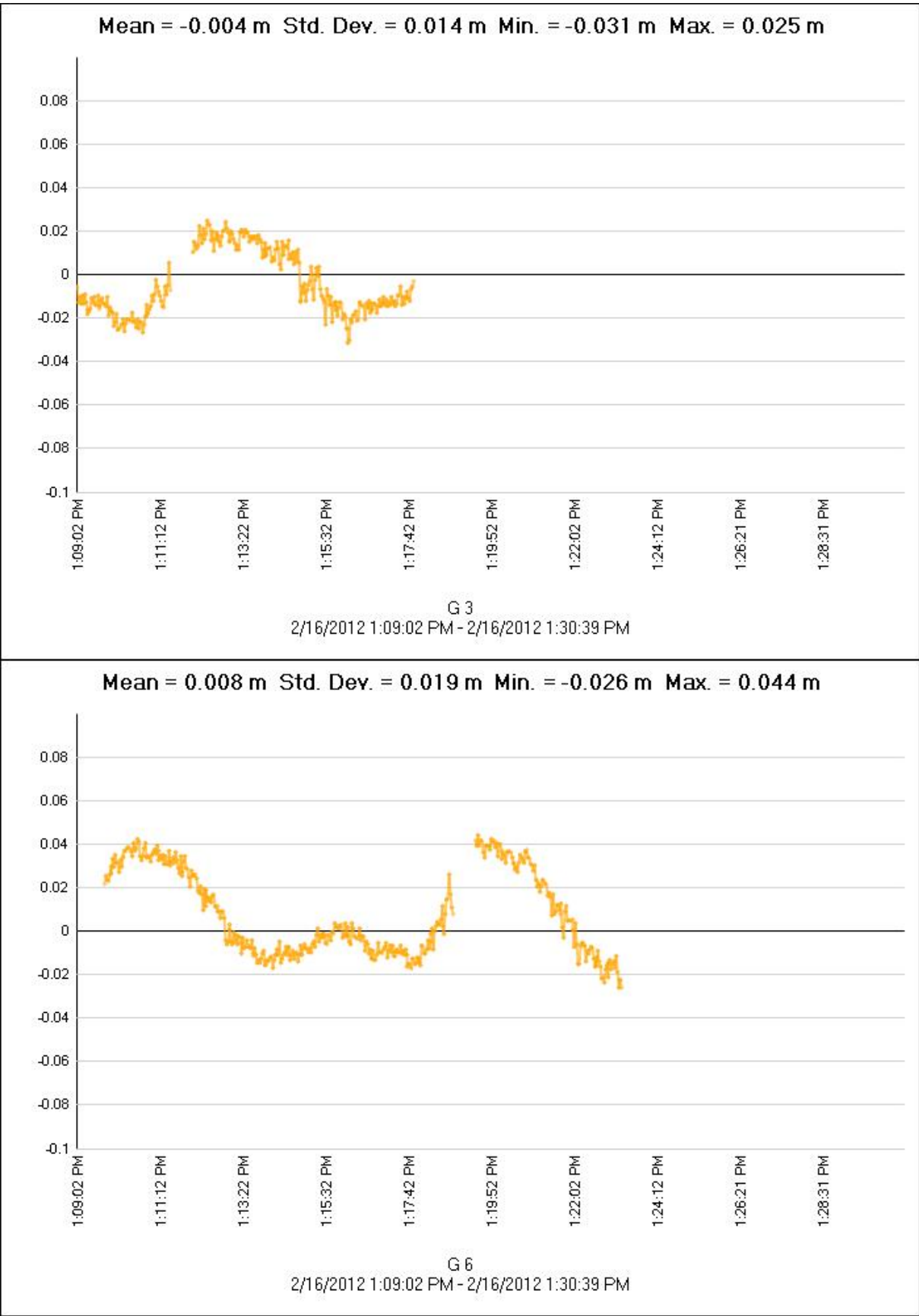
Occupations

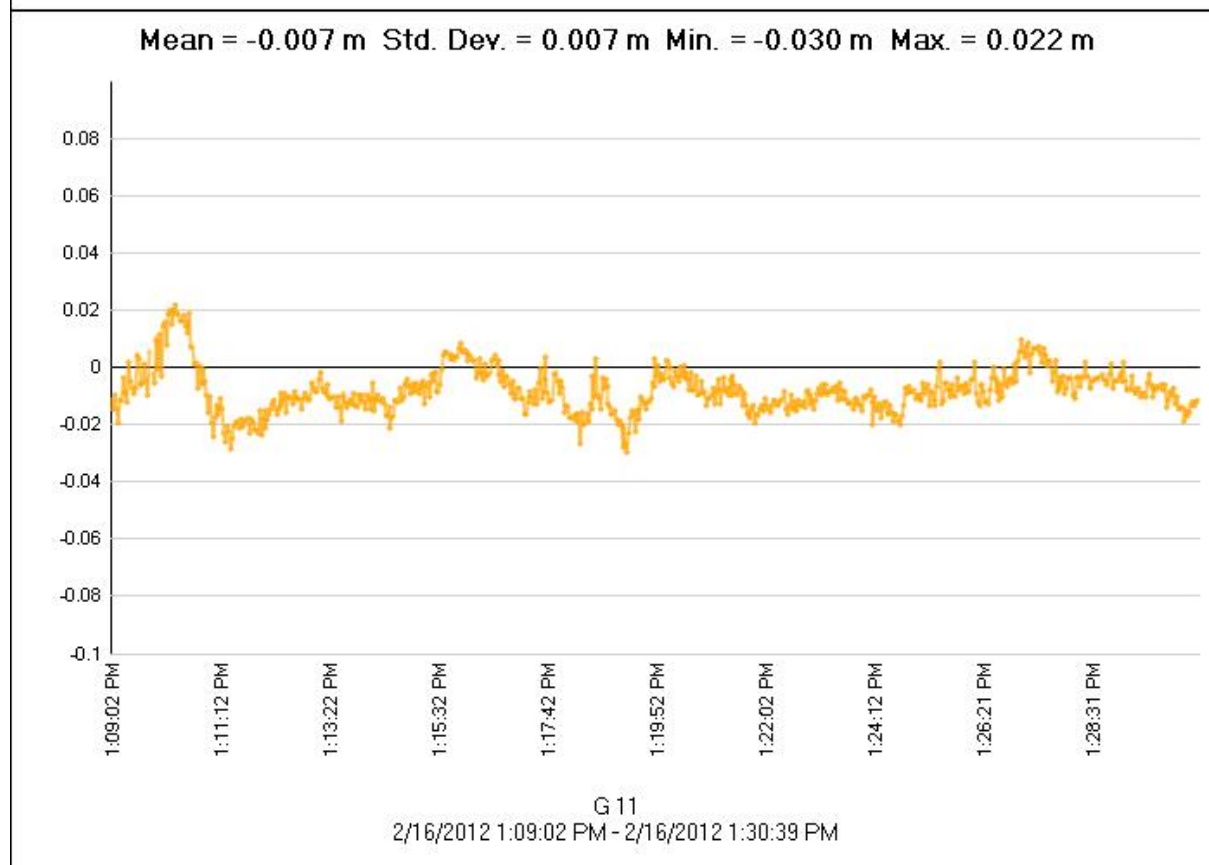
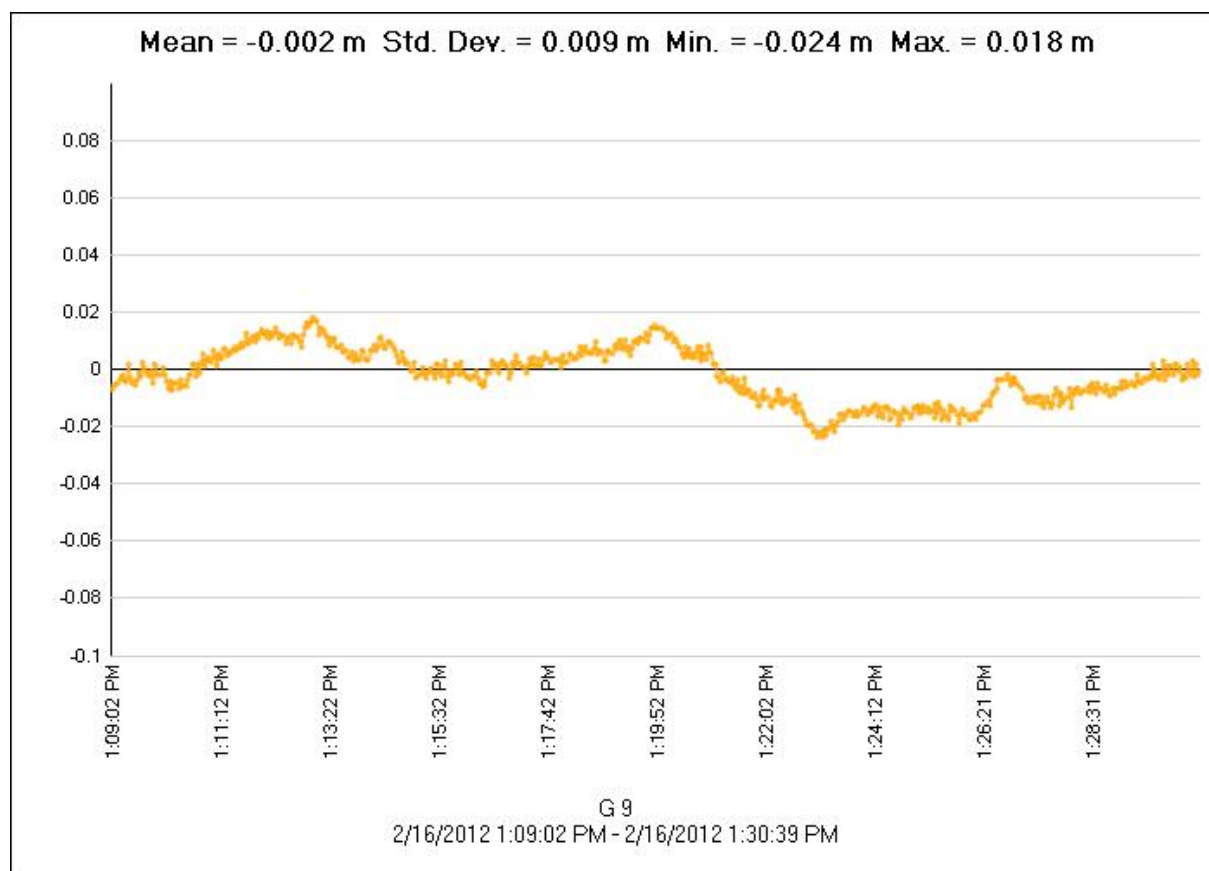
	From	To
Point ID:	JH0231	FVA06-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00030470.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080472.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	2.065 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

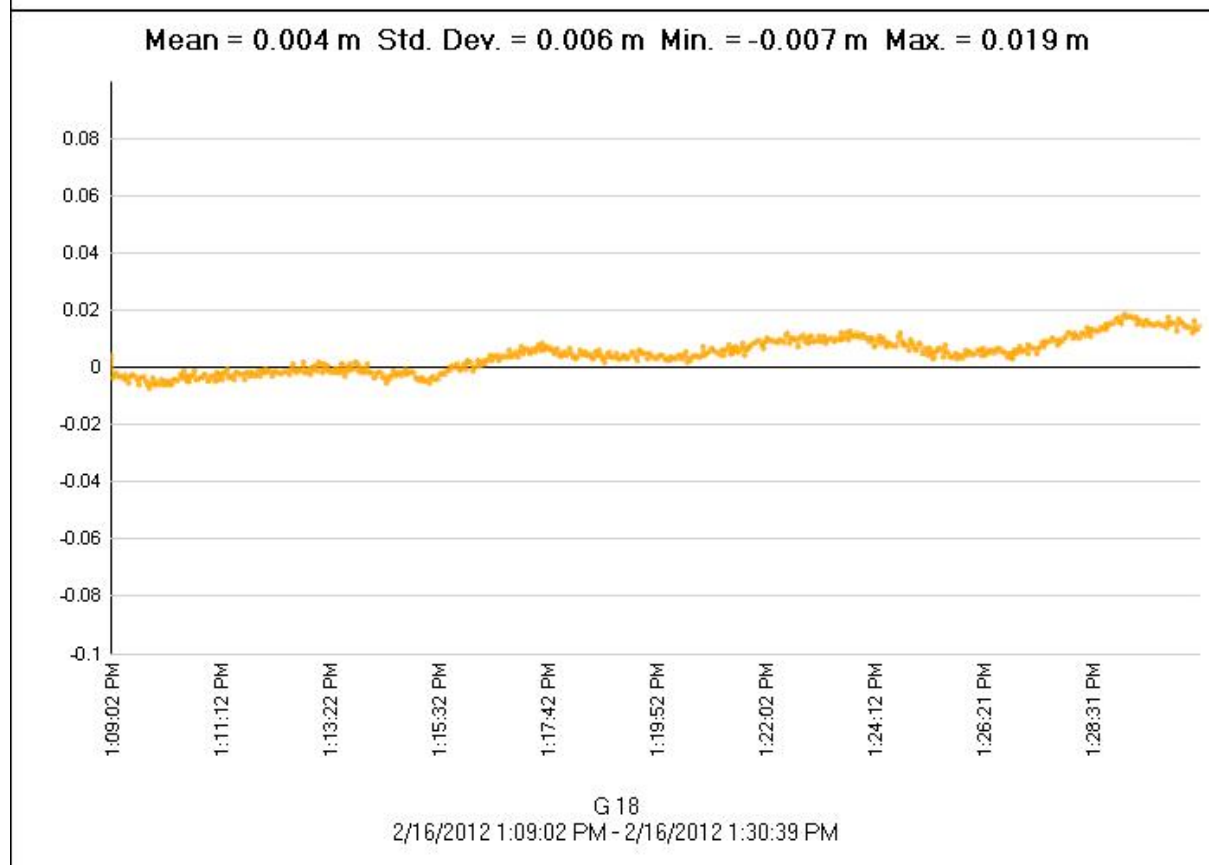
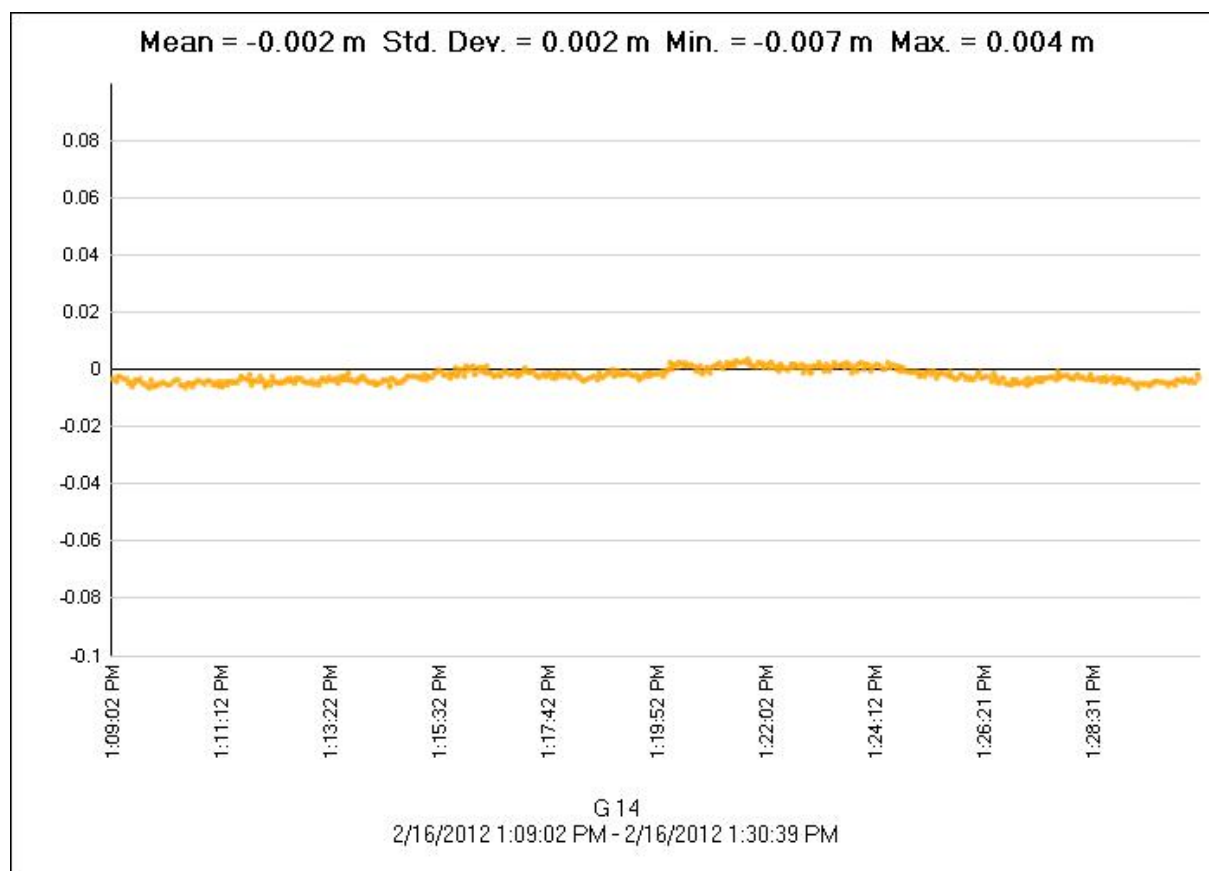
Tracking Summary

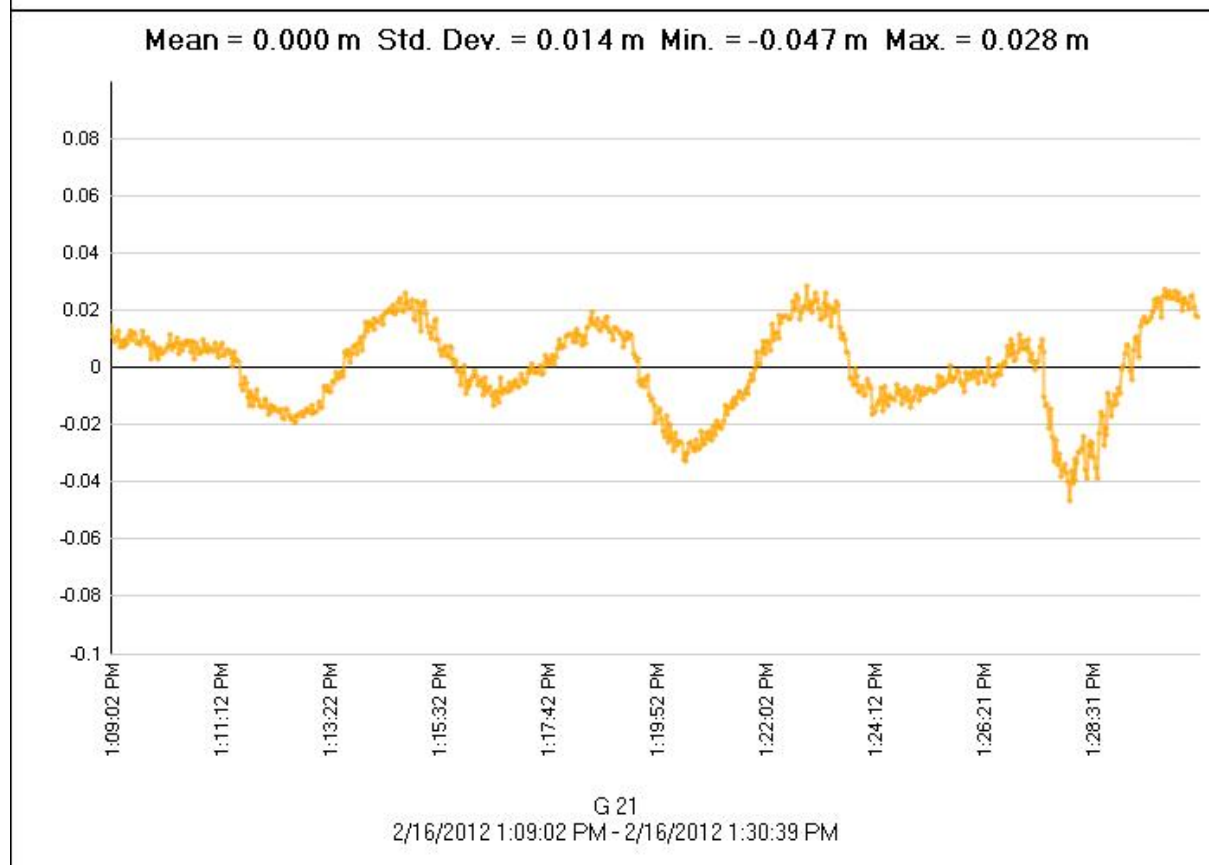
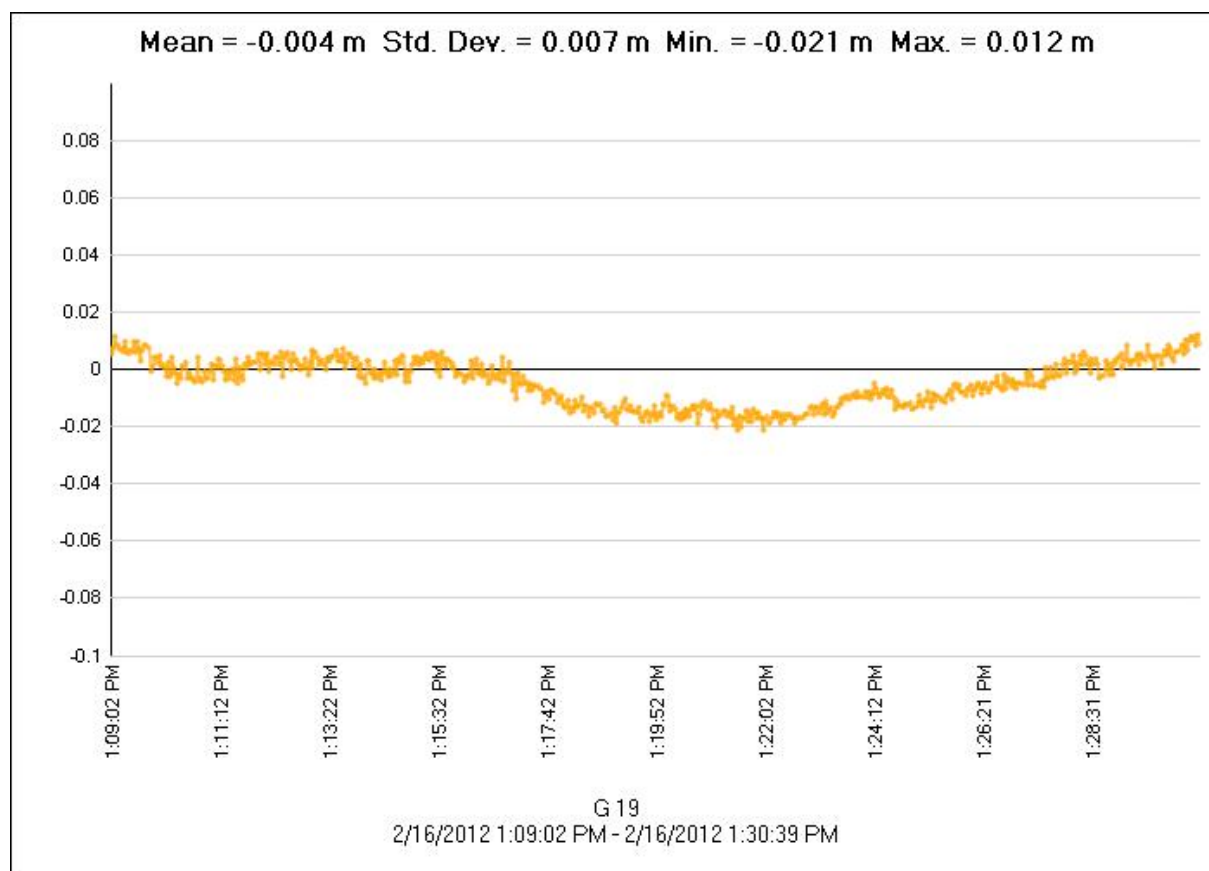


Residuals

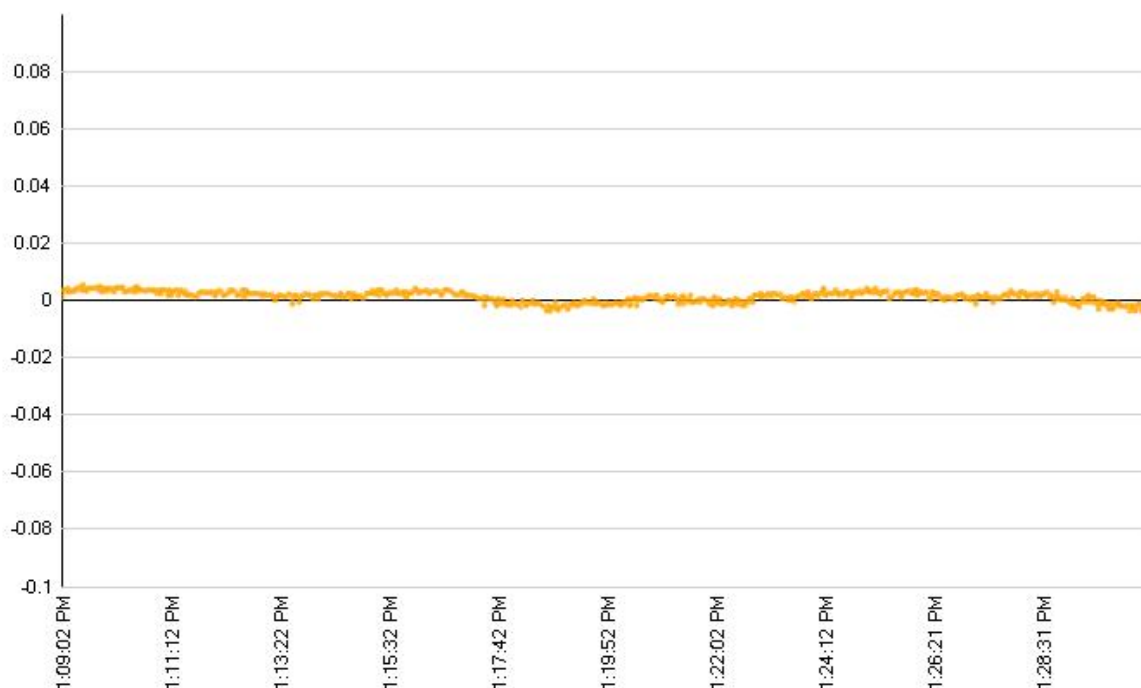






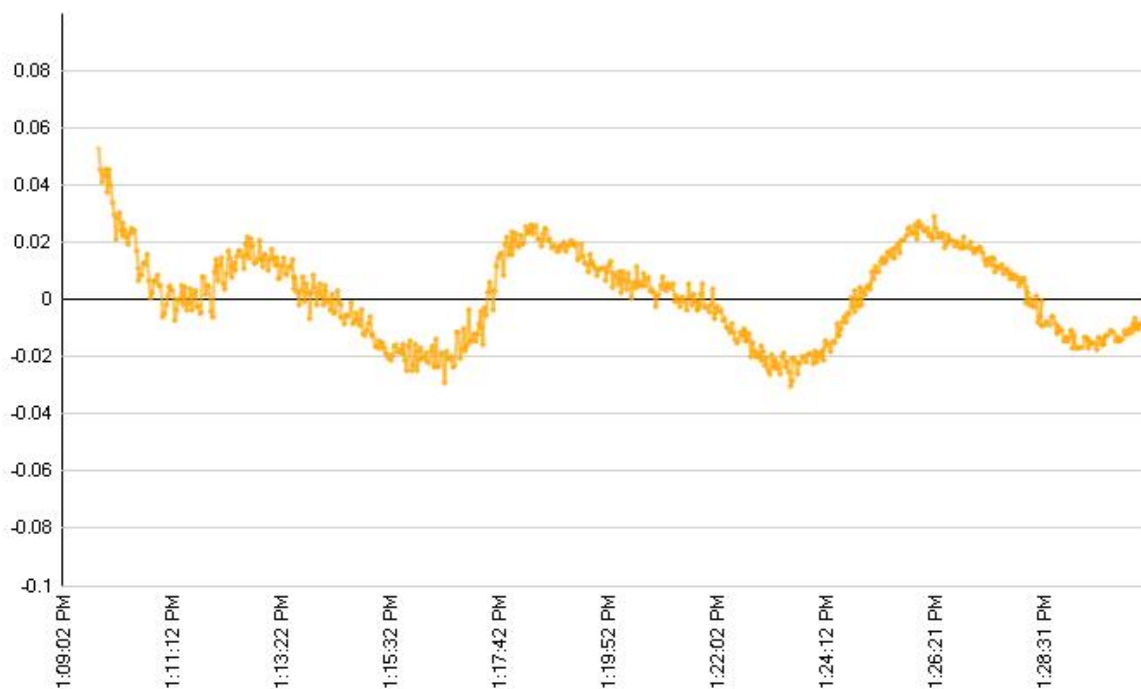


Mean = 0.001 m Std. Dev. = 0.002 m Min. = -0.004 m Max. = 0.005 m



G 22
2/16/2012 1:09:02 PM - 2/16/2012 1:30:39 PM

Mean = 0.002 m Std. Dev. = 0.014 m Min. = -0.030 m Max. = 0.052 m





G 31
2/16/2012 1:09:02 PM - 2/16/2012 1:30:39 PM

Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0231 - SVA21-B1 (12:18:39 PM-12:38:05 PM) (S215)

Baseline observation: JH0231 --- SVA21-B1 (B215)

Processed: 3/21/2012 4:21:42 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.006 m

Vertical precision: 0.010 m

RMS: 0.001 m

Maximum PDOP: 2.023

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/16/2012 12:18:39 PM (Local: UTC-7hr)

Processing stop time: 2/16/2012 12:38:05 PM (Local: UTC-7hr)

Processing duration: 00:19:26

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0231				
Grid		Local		Global	
Easting	301332.716 m	Latitude	N38°09'44.37357"	Latitude	N38°09'44.37357"
Northing	4226255.595 m	Longitude	W101°16'03.57866"	Longitude	W101°16'03.57866"
Elevation	973.381 m	Height	948.724 m	Height	948.723 m

To:	SVA21-B1				
Grid		Local		Global	
Easting	304554.598 m	Latitude	N38°09'03.13250"	Latitude	N38°09'03.13249"
Northing	4224905.351 m	Longitude	W101°13'49.94517"	Longitude	W101°13'49.94517"
Elevation	971.533 m	Height	946.827 m	Height	946.827 m

Vector					
9Ughb[	3221.881 m	NS Fwd Azimuth	111°20'11"	L	3038.417 m
Bcfh\jb[	-1350.244 m	Ellipsoid Dist.	3493.103 m	M	-1403.924 m
9Yj Uhcb	-1.847 m	<Y][\h	-1.896 m	N	-1001.206 m

Standard Errors

Vector errors:					
Ughb[	0.002 m	BG`Zk X'5n]a i h	0°00'00"	L	0.002 m
Bcfh\]b[	0.002 m	'9~]dgc]X'8]gh	0.002 m	M	0.004 m
'9`Yj Uhcb	0.005 m	' <Y][\h	0.005 m	N	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000038491		
Y	0.0000031546	0.0000187460	
Z	-0.0000033536	-0.0000102361	0.0000144750

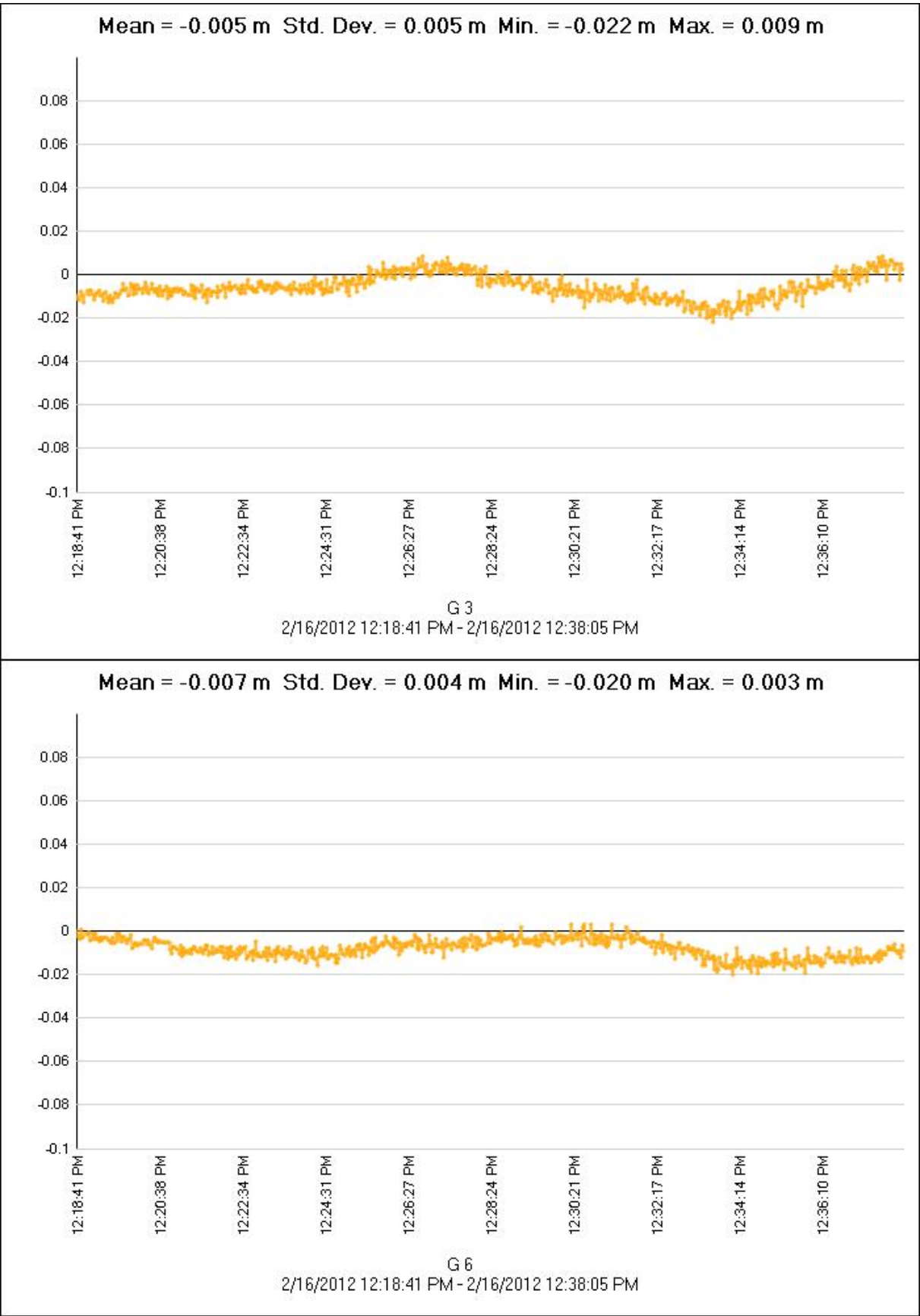
Occupations

	From	To
Point ID:	JH0231	SVA21-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00030470.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080471.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	2.065 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

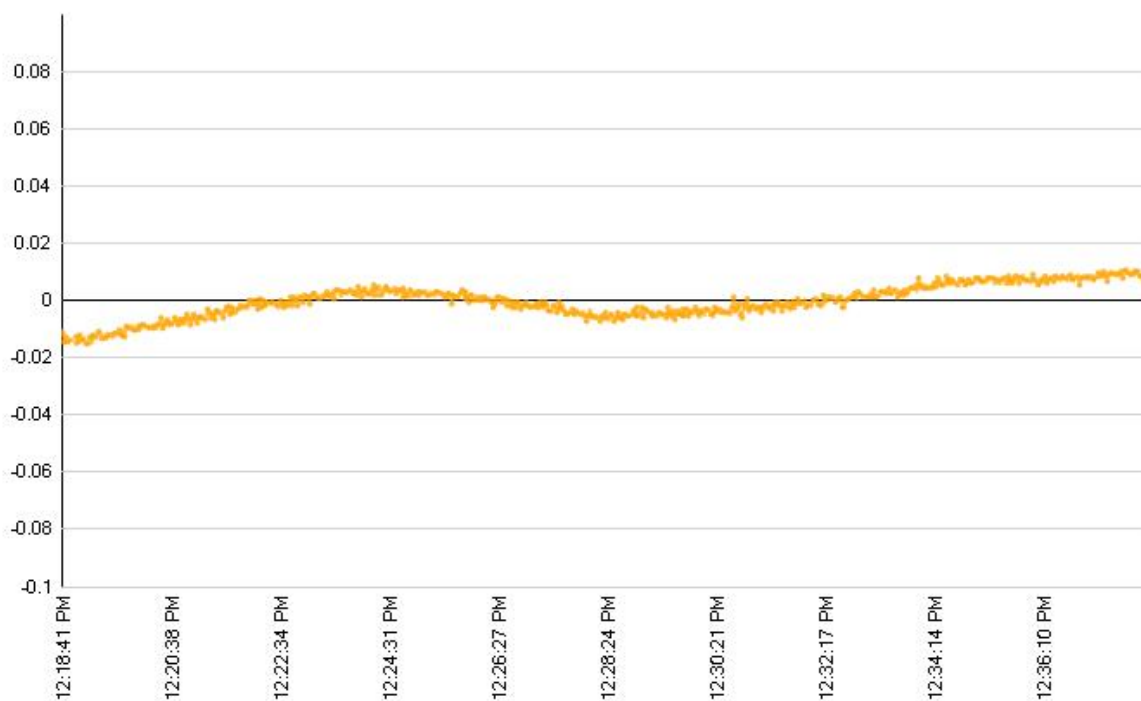
Tracking Summary

SV	2/16/2012 12:18:39 PM	Duration: 00:19:26	Major interval: 00:01:00	2/16/2012 12:38:05 PM
G 3	L1 L2			
G 6	L1 L2			
G 9	L1 L2			
G 14	L1 L2			
G 15	L1 L2			
G 18	L1 L2			
G 19	L1 L2			
G 21	L1 L2			
G 22	L1 L2			
G 27	L1 L2			

Residuals



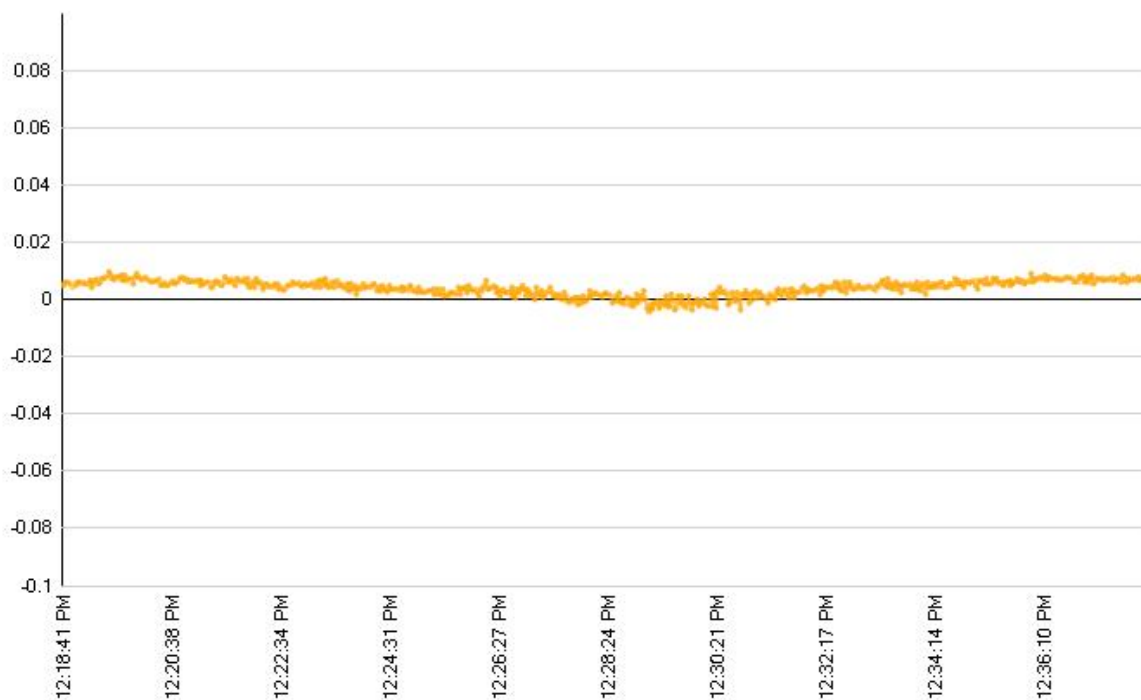
Mean = 0.000 m Std. Dev. = 0.005 m Min. = -0.015 m Max. = 0.011 m



G 9

2/16/2012 12:18:41 PM - 2/16/2012 12:38:05 PM

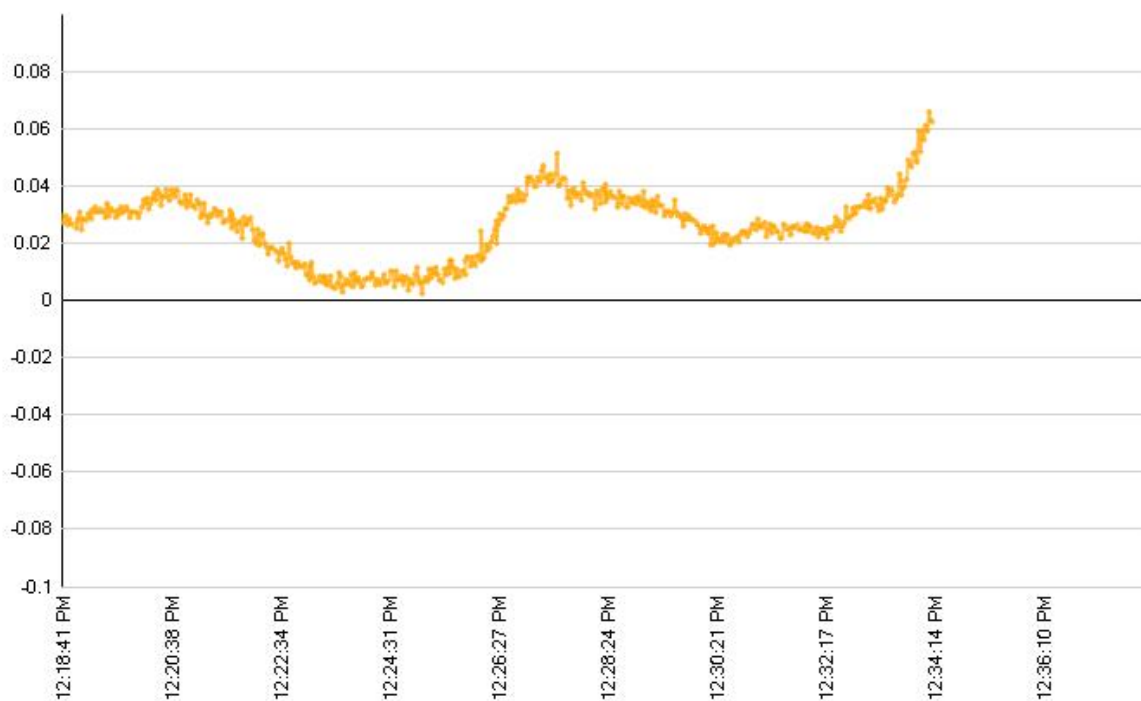
Mean = 0.004 m Std. Dev. = 0.003 m Min. = -0.005 m Max. = 0.009 m



G 14

2/16/2012 12:18:41 PM - 2/16/2012 12:38:05 PM

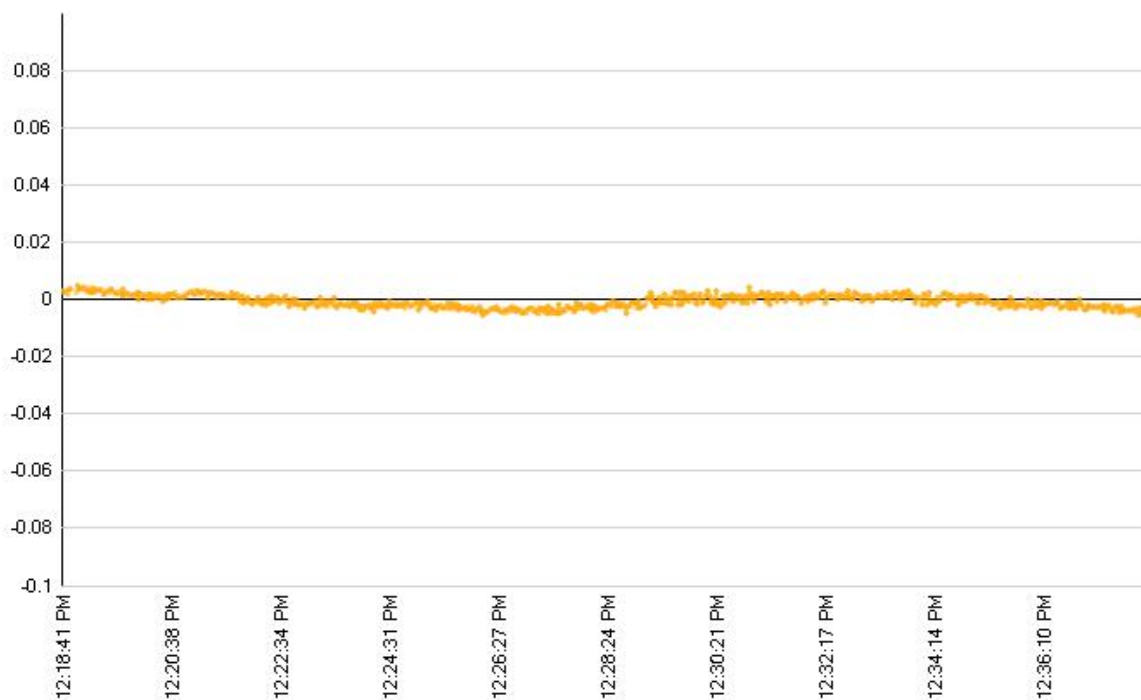
Mean = 0.026 m Std. Dev. = 0.012 m Min. = 0.000 m Max. = 0.066 m



G 15

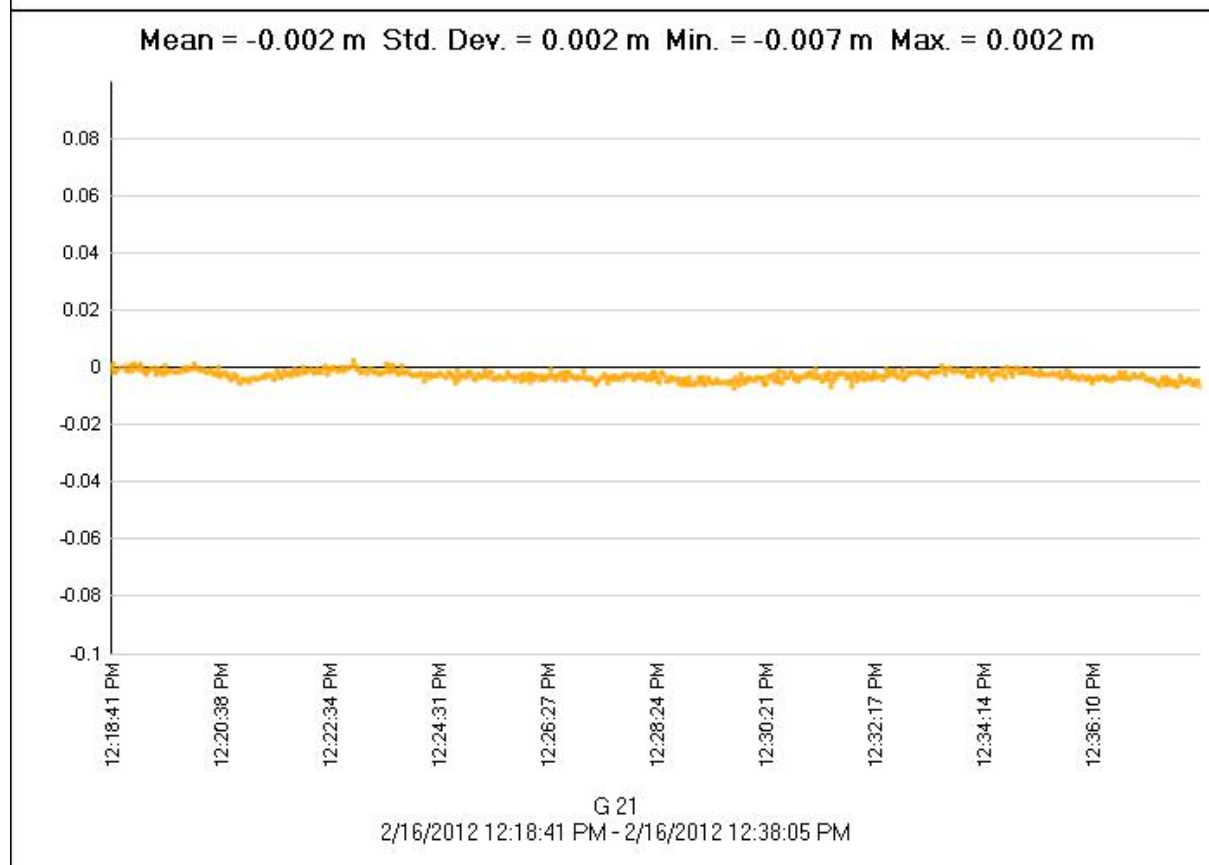
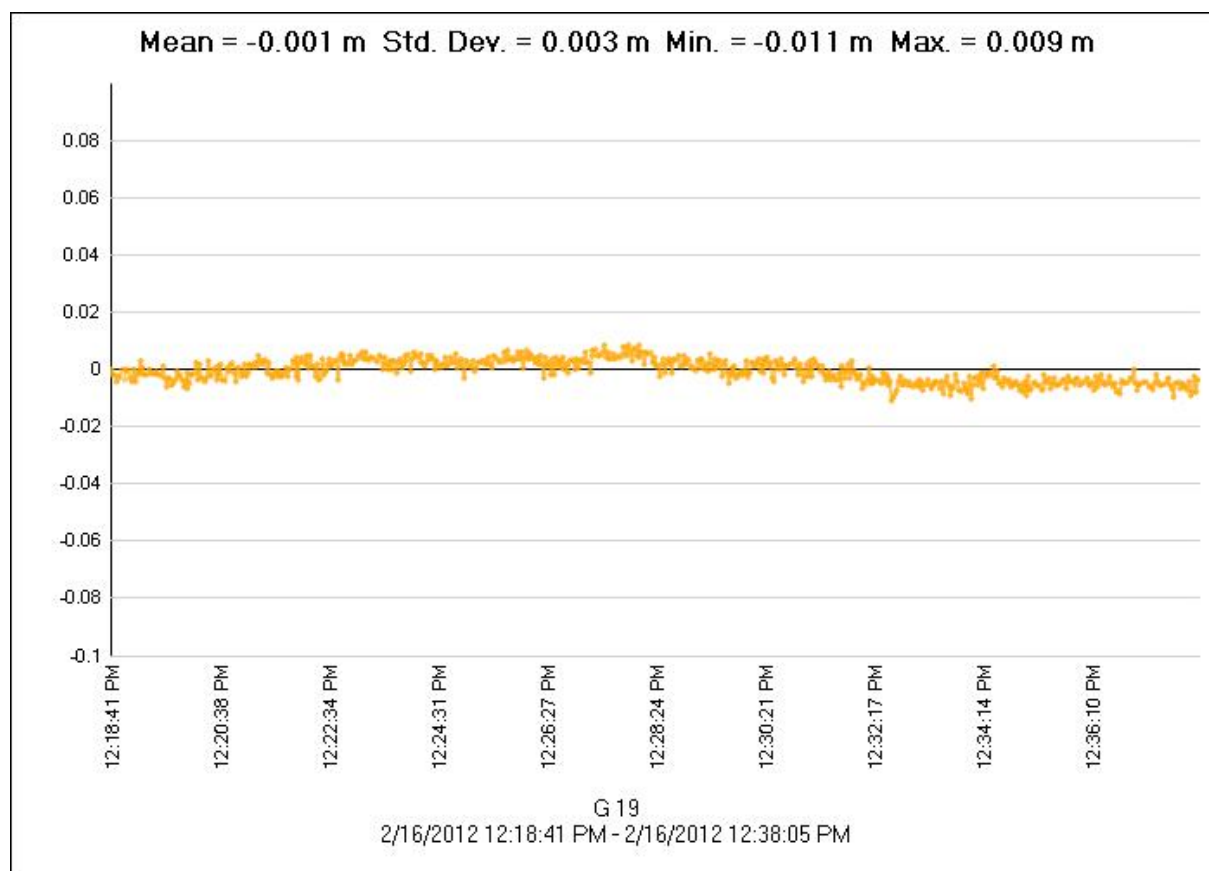
2/16/2012 12:18:41 PM - 2/16/2012 12:38:05 PM

Mean = -0.001 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.005 m

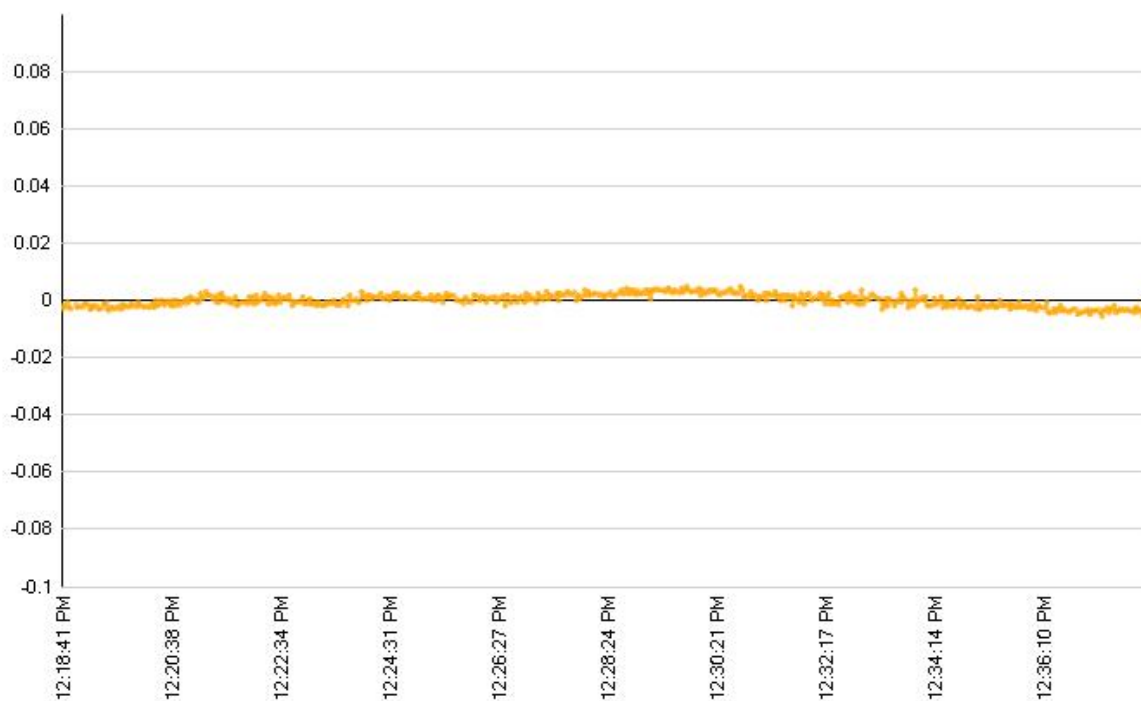


G 18

2/16/2012 12:18:41 PM - 2/16/2012 12:38:05 PM



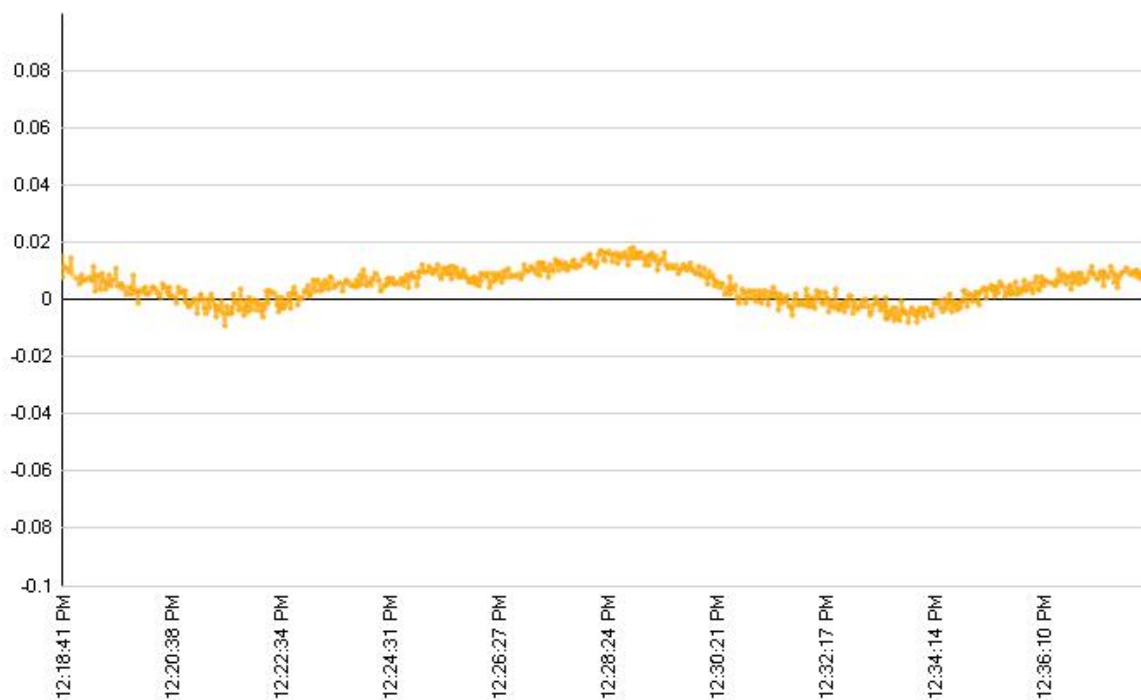
Mean = 0.000 m Std. Dev. = 0.002 m Min. = -0.006 m Max. = 0.005 m



G 22

2/16/2012 12:18:41 PM - 2/16/2012 12:38:05 PM

Mean = 0.005 m Std. Dev. = 0.005 m Min. = -0.009 m Max. = 0.018 m





G 27

2/16/2012 12:18:41 PM - 2/16/2012 12:38:05 PM

Processing style

Elevation mask:	10.0 deg
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Generate residuals:	Yes
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	Dual Frequency (L1, L2)
Processing Interval:	Use all data
Force float:	No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

JH0231 - FVA21-B1 (11:46:11 AM-12:08:41 PM) (S216)

Baseline observation: JH0231 --- FVA21-B1 (B216)

Processed: 3/21/2012 4:21:45 PM

Solution type: Fixed

Frequency used: Dual Frequency (L1, L2)

Horizontal precision: 0.006 m

Vertical precision: 0.010 m

RMS: 0.001 m

Maximum PDOP: 2.161

Ephemeris used: Broadcast

Antenna model: US National Geodetic Survey Calibration

Processing start time: 2/16/2012 11:46:11 AM (Local: UTC-7hr)

Processing stop time: 2/16/2012 12:08:41 PM (Local: UTC-7hr)

Processing duration: 00:22:30

Processing interval: .5 second

Vector Components (Mark to Mark)

From:	JH0231				
Grid		Local		Global	
Easting	301332.716 m	Latitude	N38°09'44.37357"	Latitude	N38°09'44.37357"
Northing	4226255.595 m	Longitude	W101°16'03.57866"	Longitude	W101°16'03.57866"
Elevation	973.381 m	Height	948.724 m	Height	948.723 m

To:	FVA21-B1				
Grid		Local		Global	
Easting	304559.515 m	Latitude	N38°08'52.17820"	Latitude	N38°08'52.17820"
Northing	4224567.356 m	Longitude	W101°13'49.40943"	Longitude	W101°13'49.40943"
Elevation	968.107 m	Height	943.393 m	Height	943.393 m

Vector					
9Ughb[	3226.799 m	NS Fwd Azimuth	116°13'01"	L	3011.101 m
BcfA\jb[	-1688.239 m	Ellipsoid Dist.	3641.470 m	M	-1608.487 m
9Yj Uhcb	-5.274 m	<Y][\h	-5.331 m	N	-1268.979 m

Standard Errors

Vector errors:					
Point ID	0.002 m	Point ID	0°00'00"	Point ID	0.002 m
Point ID	0.002 m	Point ID	0.002 m	Point ID	0.004 m
Point ID	0.005 m	Point ID	0.005 m	Point ID	0.004 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000035770		
Y	0.0000033739	0.0000151939	
Z	-0.0000033105	-0.0000091030	0.0000150634

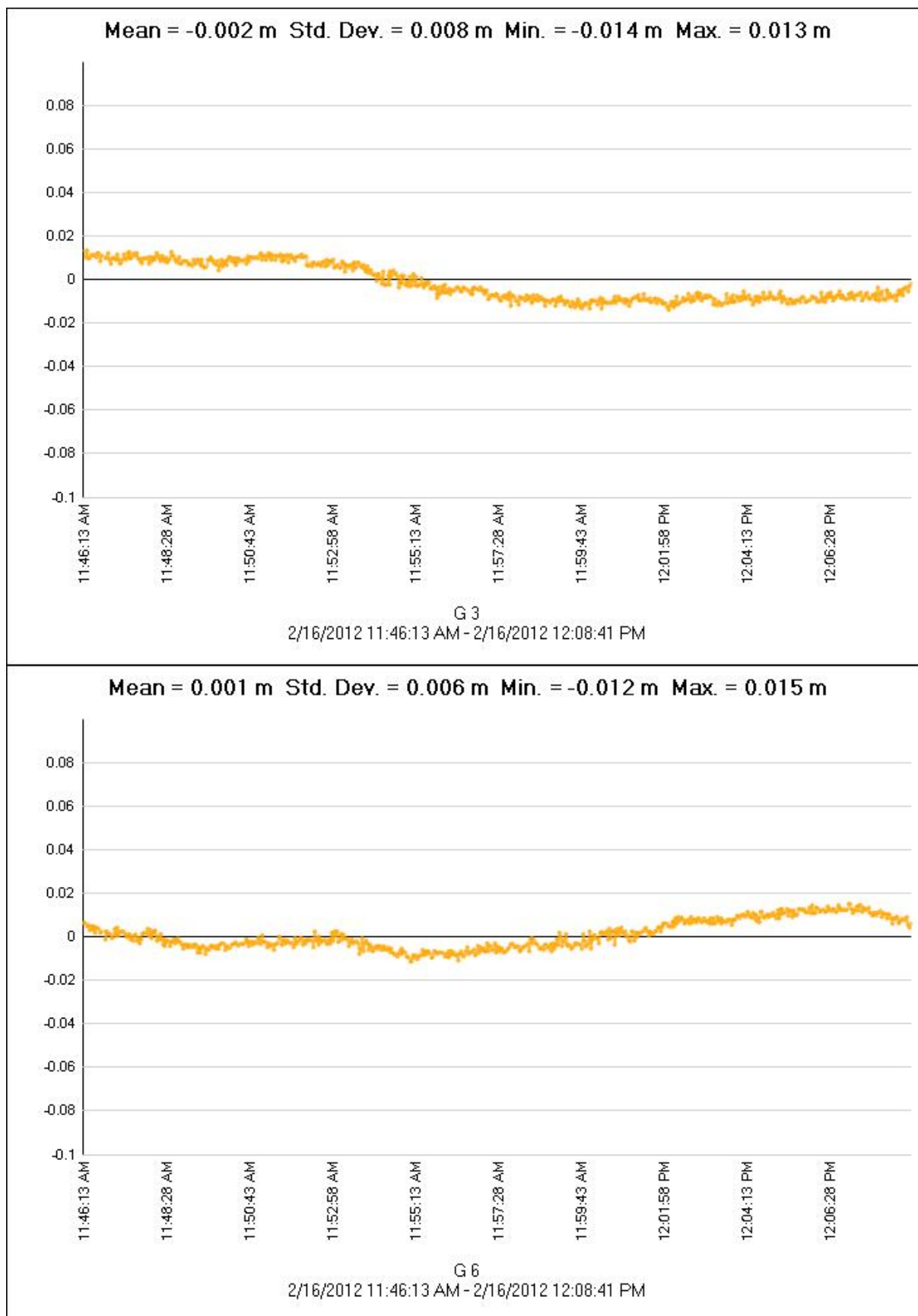
Occupations

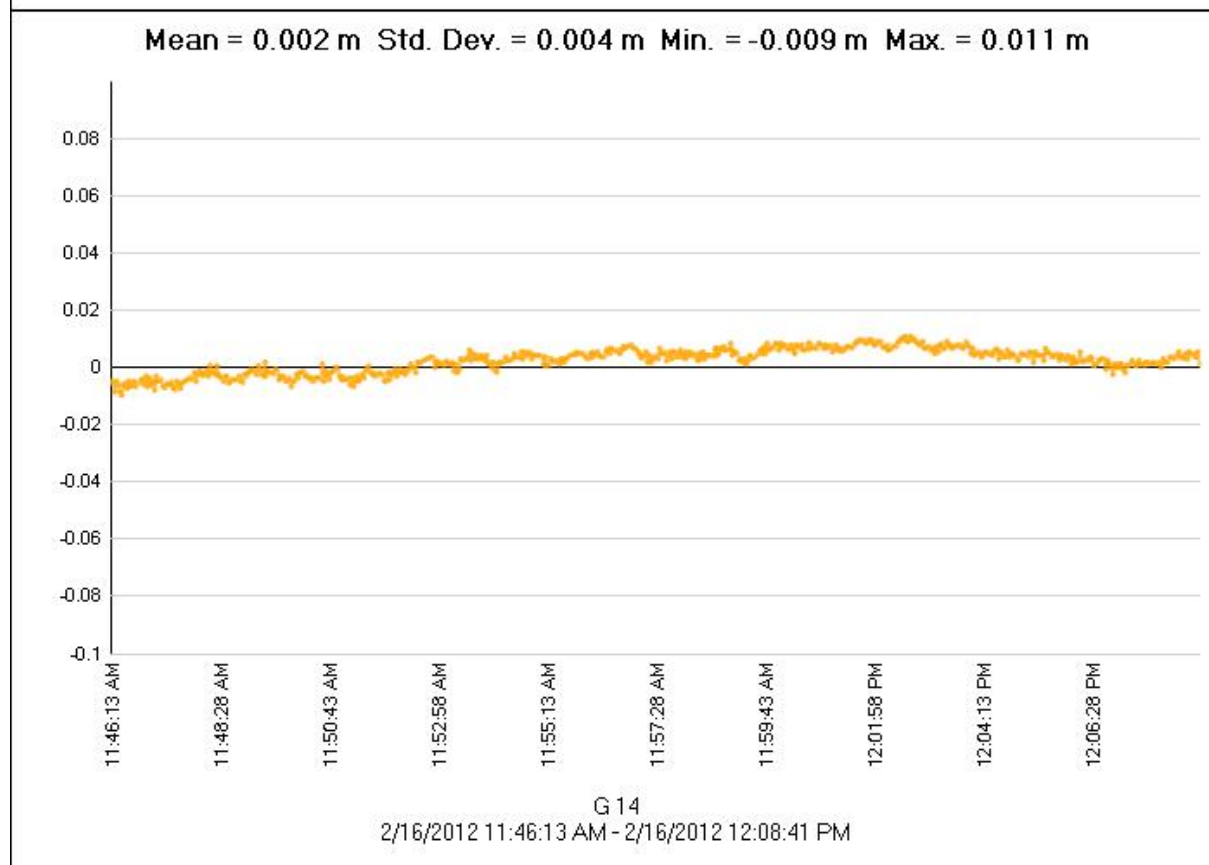
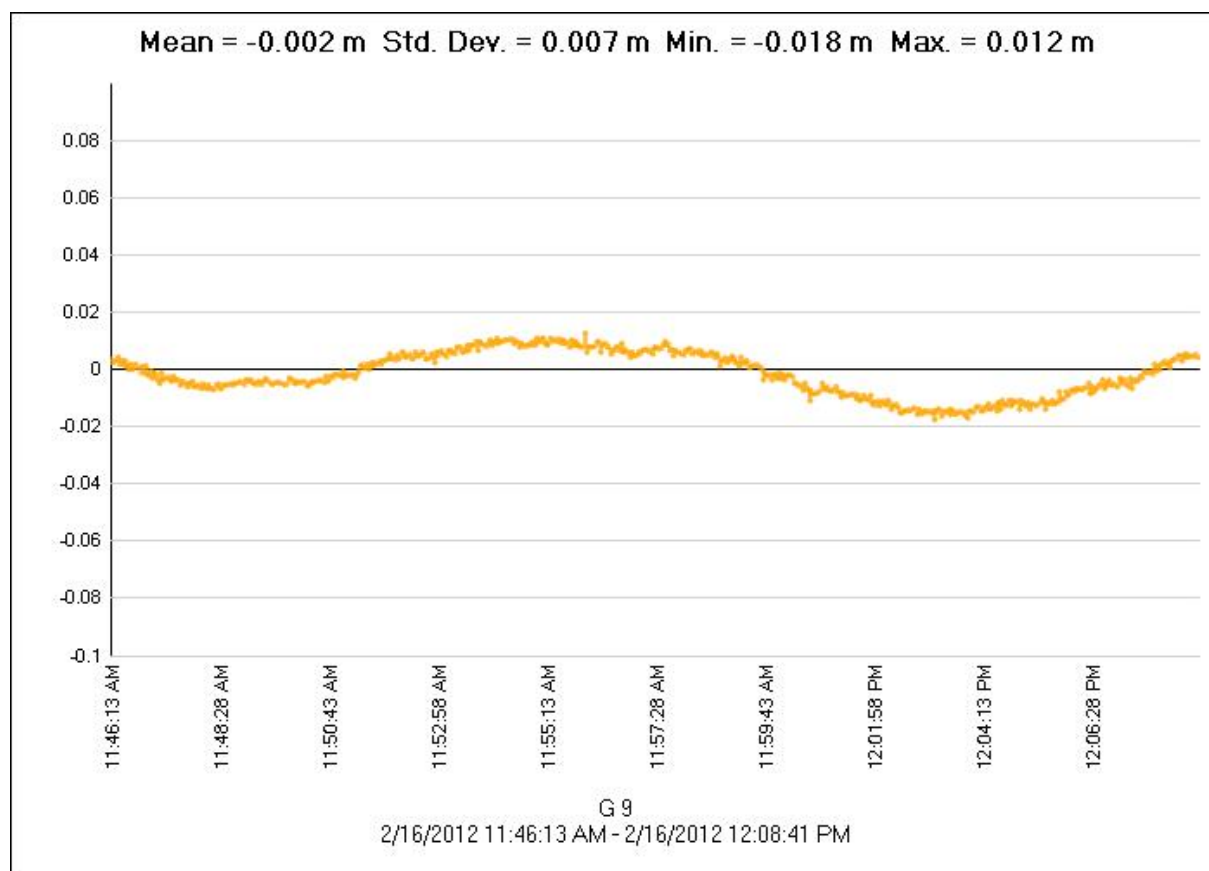
	From	To
Point ID:	JH0231	FVA21-B1
Data file:	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00030470.12o	F:\Projects\Kansas\Adjustments\TGO\231 Kansas CheckPointsAdj\00080470.12o
Receiver type:	Unknown	Unknown
Receiver serial number:		
Antenna type:	Unknown External	Unknown External
Antenna serial number:	-----	-----
Antenna height (measured):	2.065 m	2.065 m
Antenna method:	Antenna Phase Center	Antenna Phase Center

Tracking Summary

SV	2/16/2012 11:46:11 AM		Duration: 00:22:30 Major interval: 00:01:00		2/16/2012 12:08:41 PM	
G 3	L1					
	L2					
G 6	L1					
	L2					
G 9	L1					
	L2					
G 14	L1					
	L2					
G 15	L1					
	L2					
G 18	L1					
	L2					
G 19	L1					
	L2					
G 21	L1					
	L2					
G 22	L1					
	L2					
G 27	L1					
	L2					

Residuals





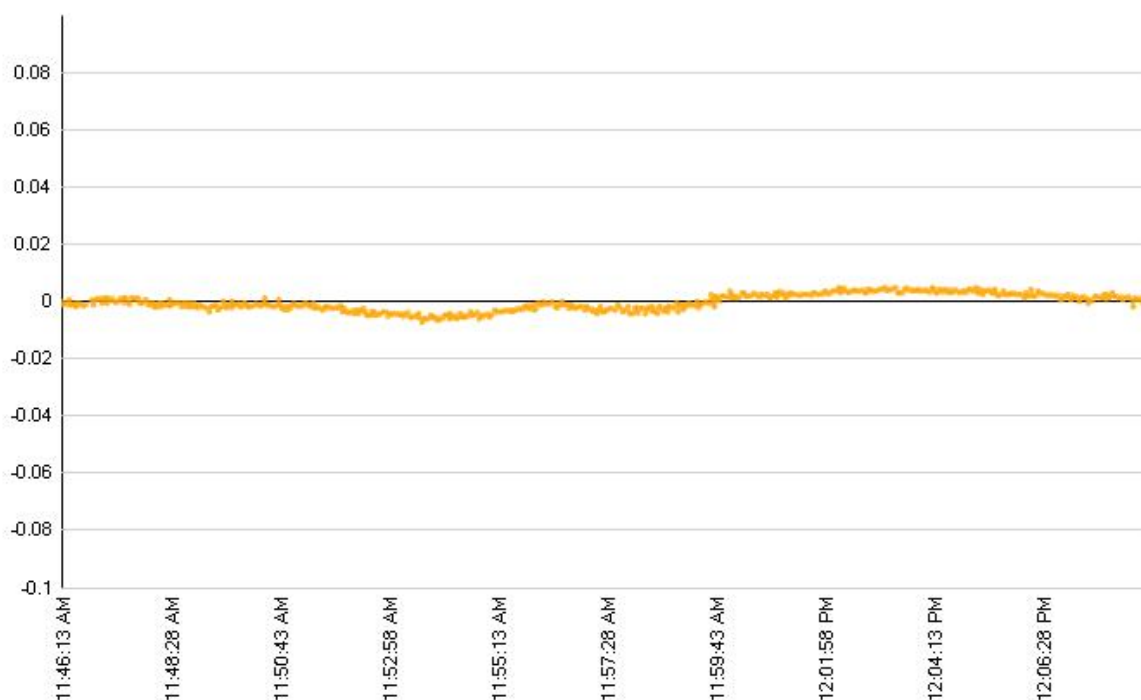
Mean = 0.005 m Std. Dev. = 0.006 m Min. = -0.010 m Max. = 0.021 m



G 15

2/16/2012 11:46:13 AM - 2/16/2012 12:08:41 PM

Mean = 0.000 m Std. Dev. = 0.003 m Min. = -0.007 m Max. = 0.005 m



G 18

2/16/2012 11:46:13 AM - 2/16/2012 12:08:41 PM

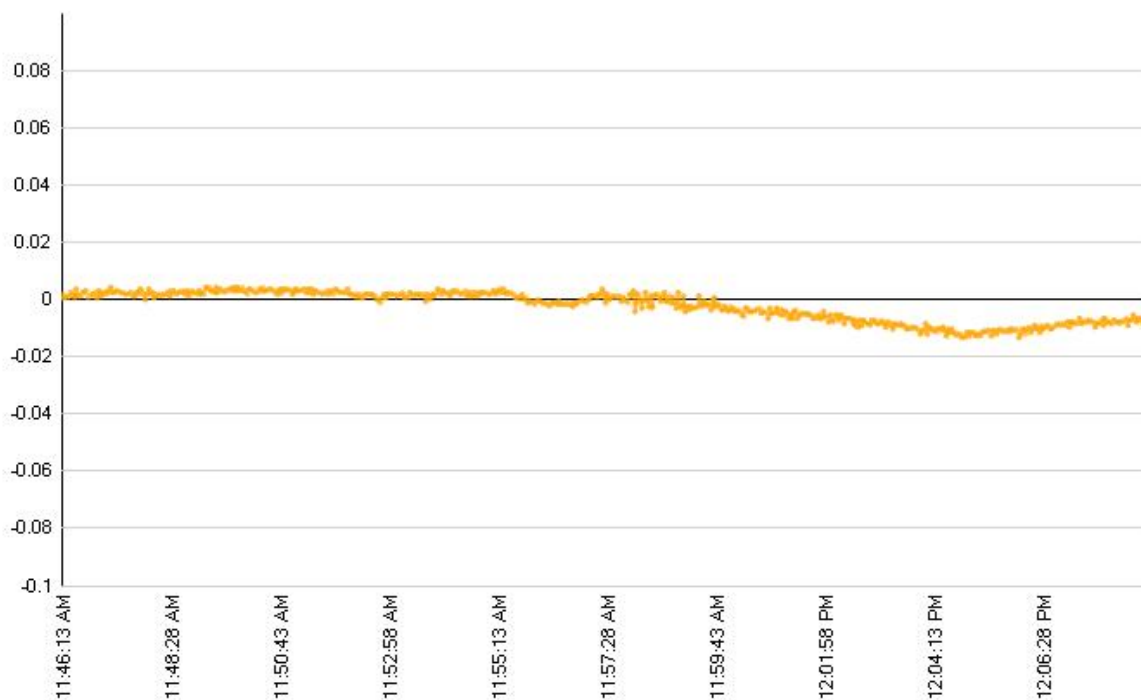
Mean = 0.000 m Std. Dev. = 0.005 m Min. = -0.014 m Max. = 0.018 m



G 19

2/16/2012 11:46:13 AM - 2/16/2012 12:08:41 PM

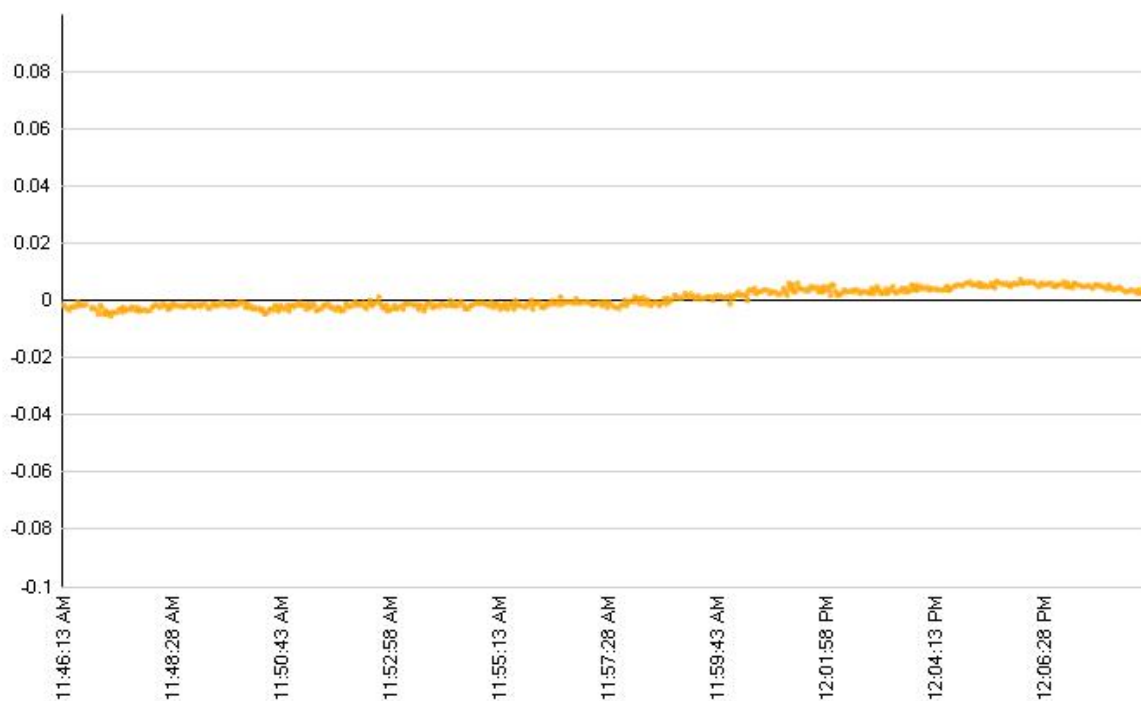
Mean = -0.002 m Std. Dev. = 0.005 m Min. = -0.013 m Max. = 0.005 m



G 21

2/16/2012 11:46:13 AM - 2/16/2012 12:08:41 PM

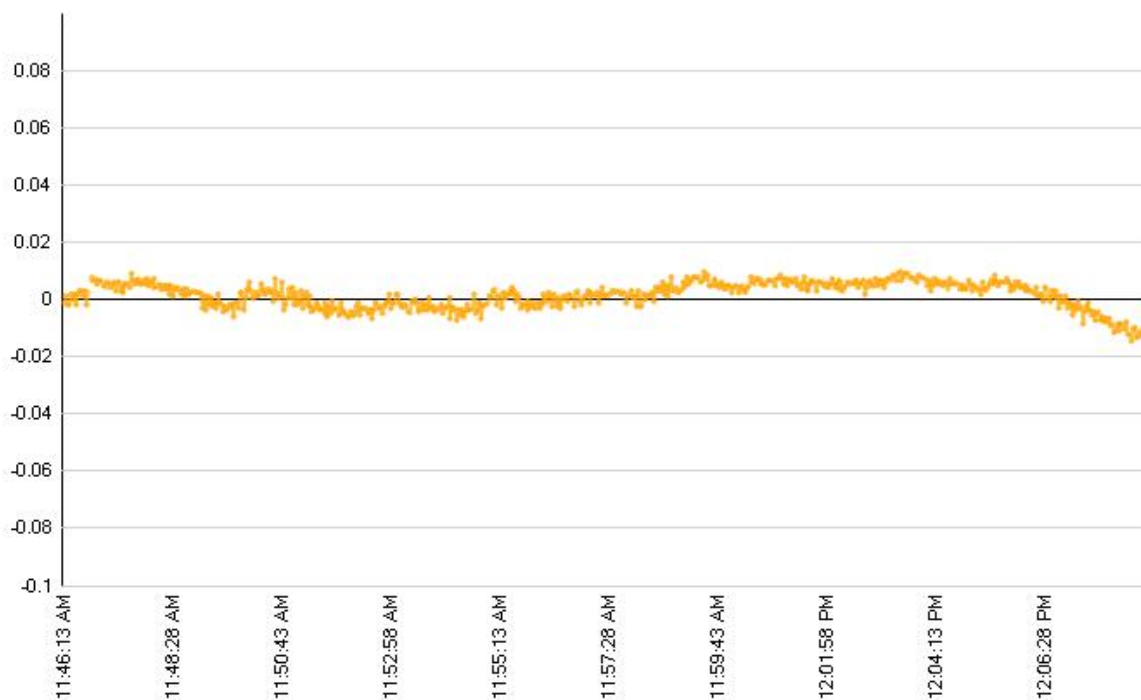
Mean = 0.001 m Std. Dev. = 0.003 m Min. = -0.005 m Max. = 0.007 m



G 22

2/16/2012 11:46:13 AM - 2/16/2012 12:08:41 PM

Mean = 0.001 m Std. Dev. = 0.004 m Min. = -0.014 m Max. = 0.010 m



G 27

2/16/2012 11:46:13 AM - 2/16/2012 12:08:41 PM

Processing style

Elevation mask: 10.0 deg
Auto start processing: Yes
Start automatic ID numbering: AUTO0001
Continuous vectors: No
Generate residuals: Yes
Antenna model: Automatic
Ephemeris type: Automatic
Frequency: Dual Frequency (L1, L2)
Processing Interval: Use all data
Force float: No

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.050 m + 1.000 ppm	0.100 m + 1.000 ppm
Vertical Precision >	0.100 m + 1.000 ppm	0.200 m + 1.000 ppm

4/25/2012 9:48:54 PM	F:\Projects\Kansas\Adjustments\TGO\2331 Kansas CheckPointsAdj.vce	Trimble Business Center
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