

Project information		Coordinate System	
Name:		Name:	UTM
Size:		Datum:	WGS 1984
Modified:		Zone:	33 X (15E)
Time zone:		Geoid:	
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 YHfL
LYRS --- T7-new (B7)	LYRS	T7-new	Fixed	0,011	0,030	81°27'28"	17023,317	121,337
LYRS --- T7-old (B6)	LYRS	T7-old	Fixed	0,012	0,034	81°27'11"	17023,076	121,319
LYRS --- T2-2018 (B2)	LYRS	T2-2018	Fixed	0,025	0,060	80°14'45"	19210,774	-100,548
LYRS --- T4-2018 (B3)	LYRS	T4-2018	Fixed	0,013	0,032	80°21'03"	18364,927	-8,427
LYRS --- T2-2 (B1)	LYRS	T2-2	Fixed	0,114	0,143	80°14'23"	19211,181	-99,435
LYRS --- T1-2 (B4)	LYRS	T1-2	Fixed	0,010	0,026	81°05'13"	19606,043	-153,584
LYRS --- T1-2018 (B5)	LYRS	T1-2018	Fixed	0,014	0,037	81°05'00"	19605,850	-154,254

Acceptance Summary

Processed	Passed	Flag 	Fail 
7	6	1	0

LYRS - T7-new (14:24:21-14:39:59) (S7)

Baseline observation:	LYRS --- T7-new (B7)
Processed:	23.03.2018 15:14:11
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0,011 m
Vertical precision:	0,030 m
RMS:	0,003 m
Maximum PDOP:	1,664
Ephemeris used:	Broadcast
Antenna model:	Trimble Calibration
Processing start time:	13.03.2018 14:24:21 (Local: UTC+1hr)
Processing stop time:	13.03.2018 14:39:59 (Local: UTC+1hr)
Processing duration:	12:15:38 AM
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	LYRS				
	Grid	Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T7-new				
	Grid	Local		Global	
Easting	525858,402 m	Latitude	N78°15'01,87171"	Latitude	N78°15'01,87171"
Northing	8686579,326 m	Longitude	E16°08'15,31344"	Longitude	E16°08'15,31344"
Elevation	617,019 m	Height	617,019 m	Height	617,019 m

Vector					
9Ughb[16810,264 m	NS Fwd Azimuth	81°27'28"	L	-6837,530 m
Bcfh]b[2641,758 m	Ellipsoid Dist.	17023,317 m	M	15579,836 m
9`Yj Uhcb	121,337 m	<Y]\h	121,337 m	N	612,502 m

Standard Errors

Vector errors:

9Ughb[0,004 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	0,004 m
9`Yj Uhcb	0,015 m	<Y][\h	0,015 m	N	0,015 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000124756		
Y	-0,0000006372	0,0000155312	
Z	0,0000084848	-0,0000049361	0,0002367409

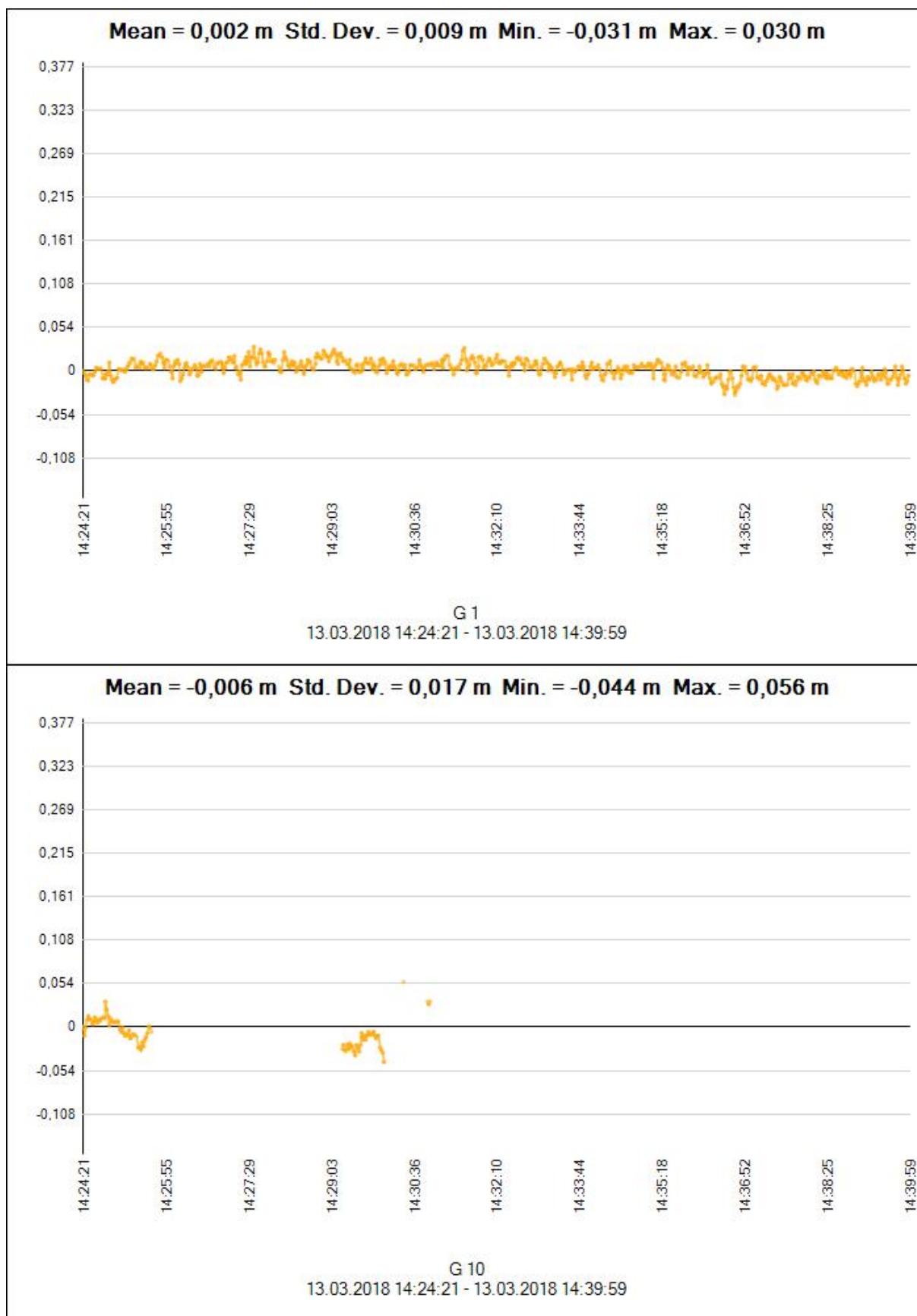
Occupations

	From	To
Point ID:	LYRS	T7-new
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0720.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250725.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	0,980 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

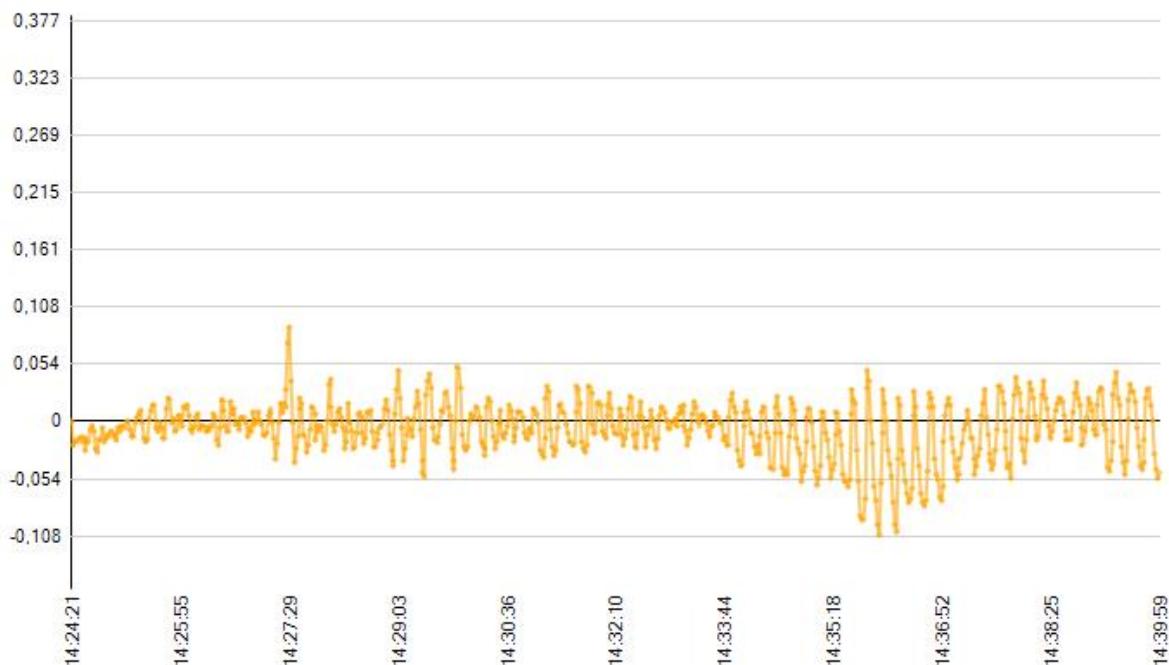
Tracking Summary

SV	13.03.2018 14:24:21	Duration: 00:15:38 Major interval: 00:01:00	13.03.2018 14:39:59
G 1	L1 L2		
G 10	L1 L2		
G 11	L1 L2		
G 12	L1 L2		
G 14	L1 L2		
G 17	L1 L2		
G 19	L1 L2		
G 22	L1 L2		
G 24	L1 L2		
G 28	L1 L2		
G 32	L1 L2		
R 1	L1 L2		
R 7	L1 L2		
R 8	L1 L2		
R 9	L1 L2		
R 15	L1 L2		
R 16	L1 L2		
R 17	L1 L2		
R 18	L1 L2		
R 24	L1 L2		

Residuals



Mean = -0,007 m Std. Dev. = 0,024 m Min. = -0,107 m Max. = 0,088 m



G 11

13.03.2018 14:24:21 - 13.03.2018 14:39:59

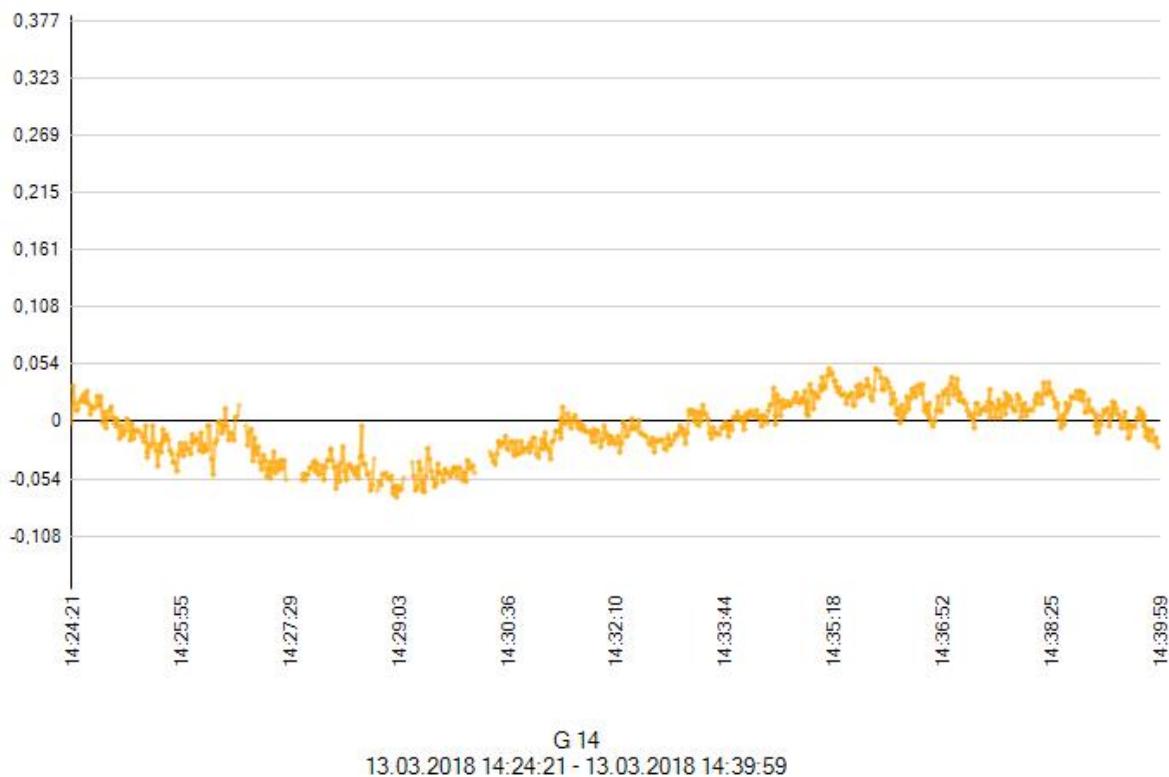
Mean = 0,001 m Std. Dev. = 0,012 m Min. = -0,043 m Max. = 0,045 m



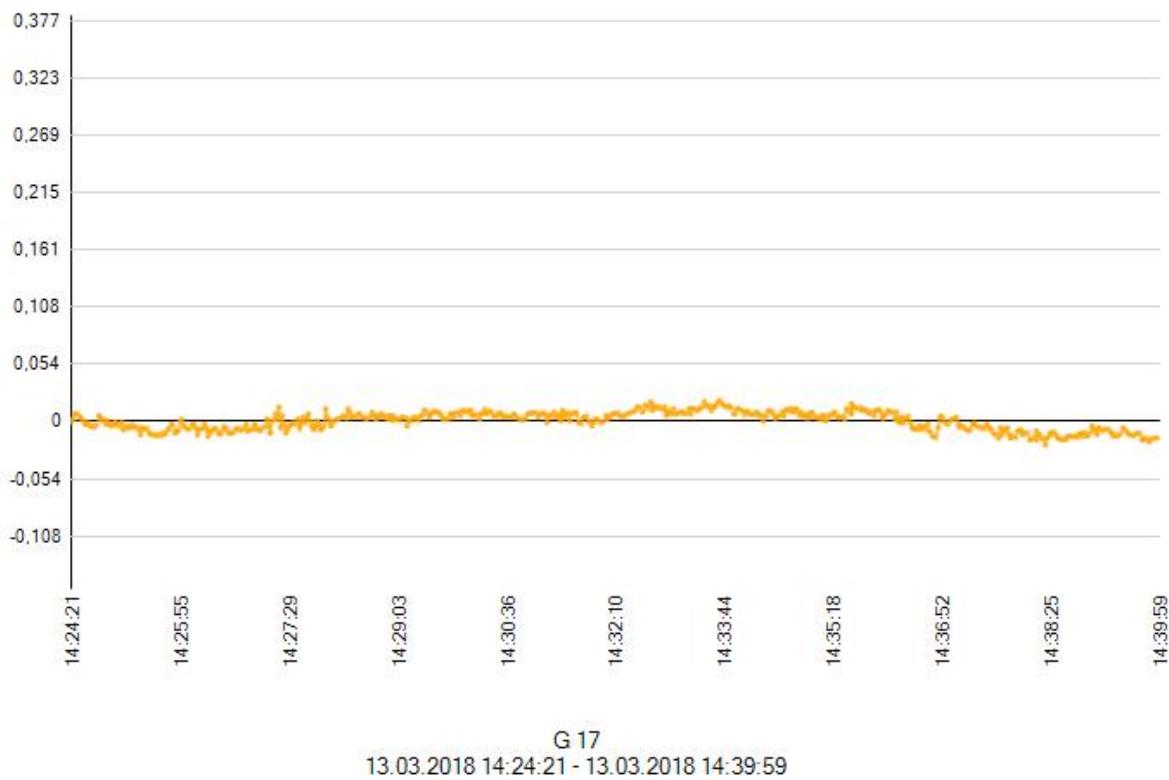
G 12

13.03.2018 14:24:21 - 13.03.2018 14:39:59

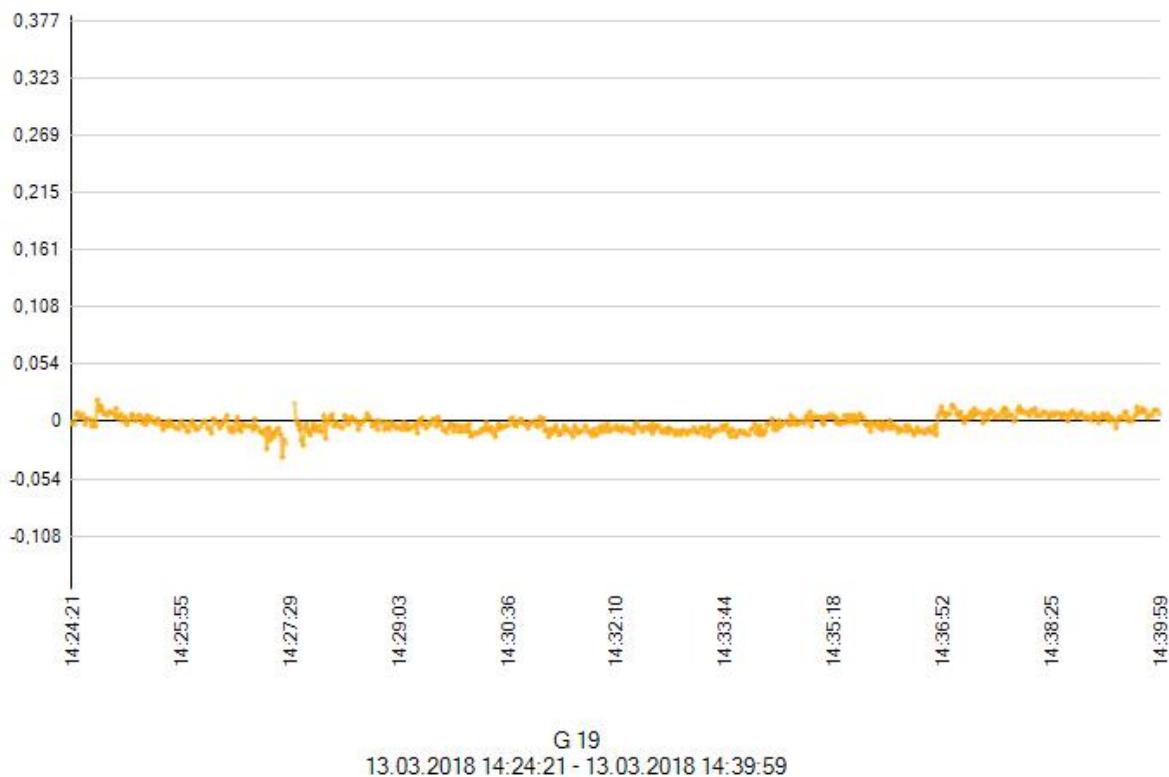
Mean = -0,006 m Std. Dev. = 0,025 m Min. = -0,071 m Max. = 0,049 m



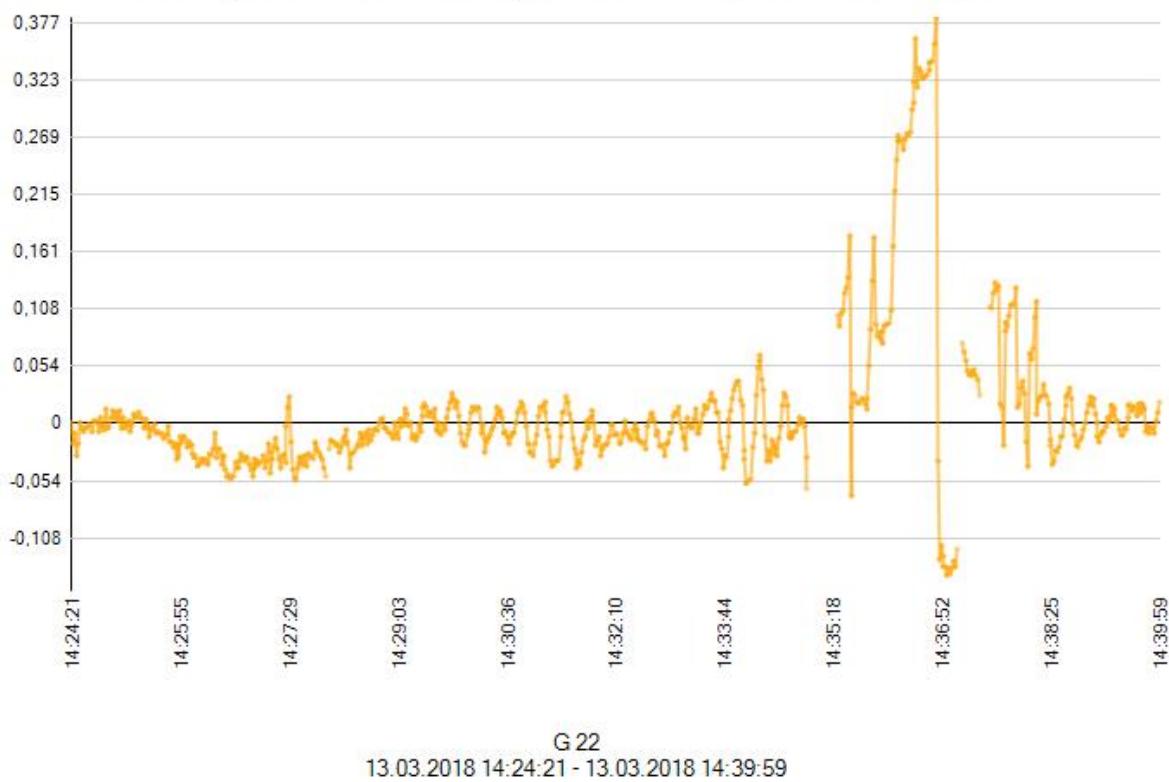
Mean = 0,000 m Std. Dev. = 0,008 m Min. = -0,021 m Max. = 0,020 m



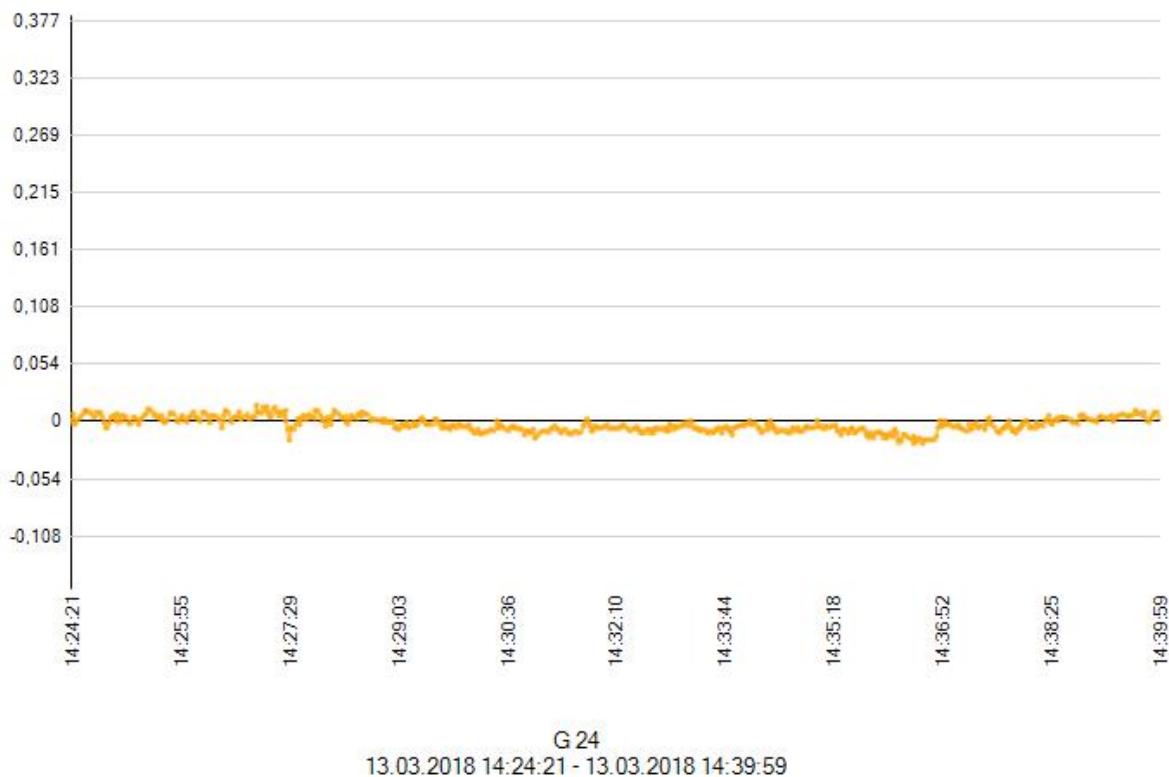
Mean = -0,002 m Std. Dev. = 0,006 m Min. = -0,033 m Max. = 0,020 m



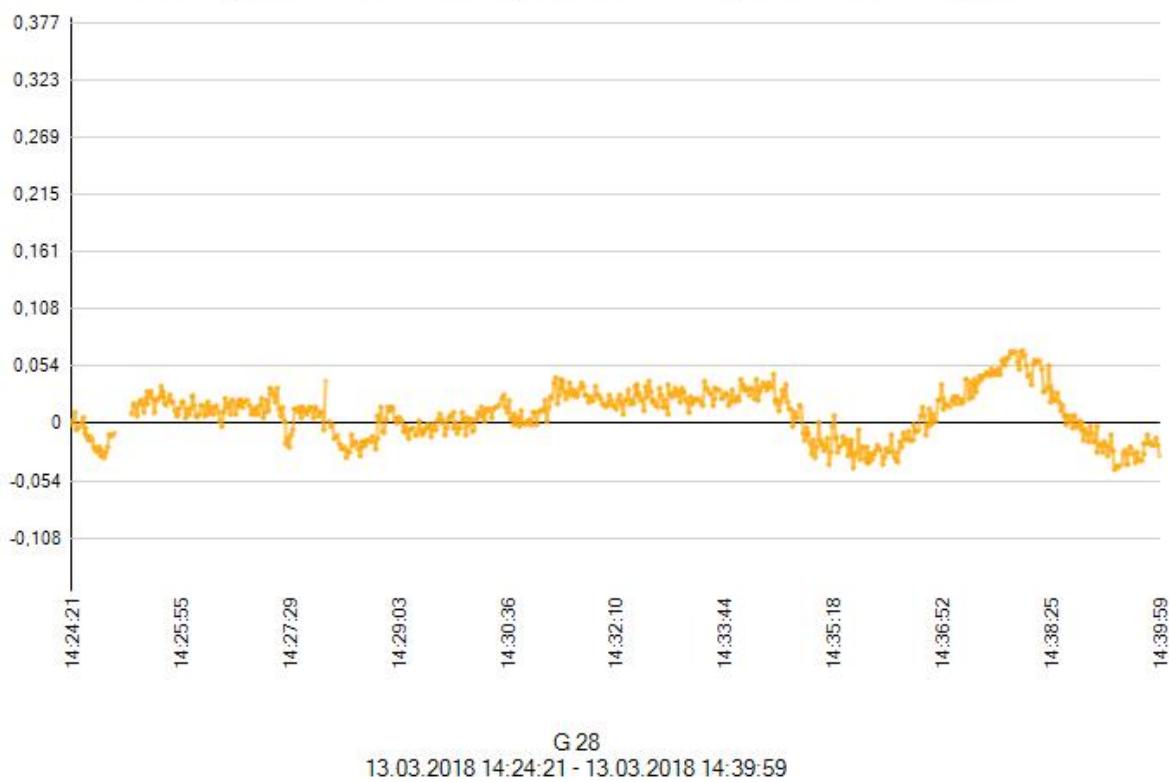
Mean = 0,011 m Std. Dev. = 0,072 m Min. = -0,142 m Max. = 0,382 m



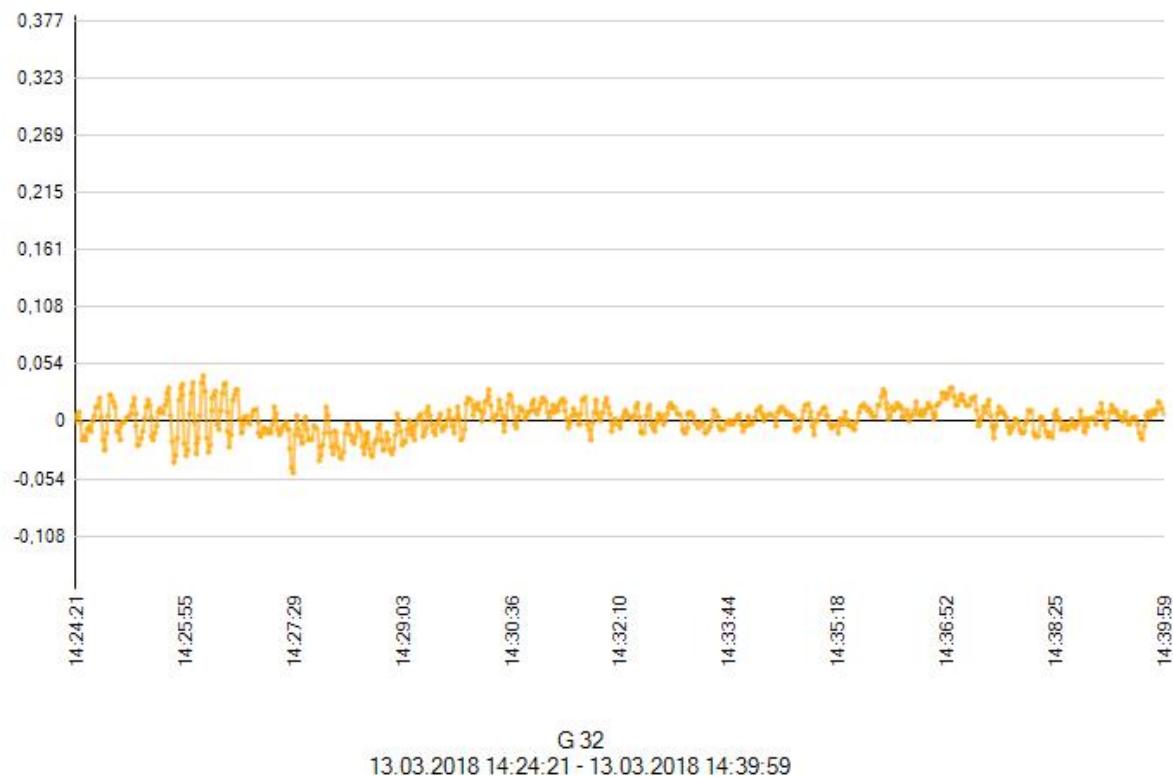
Mean = -0,002 m Std. Dev. = 0,007 m Min. = -0,021 m Max. = 0,015 m



Mean = 0,009 m Std. Dev. = 0,022 m Min. = -0,043 m Max. = 0,069 m



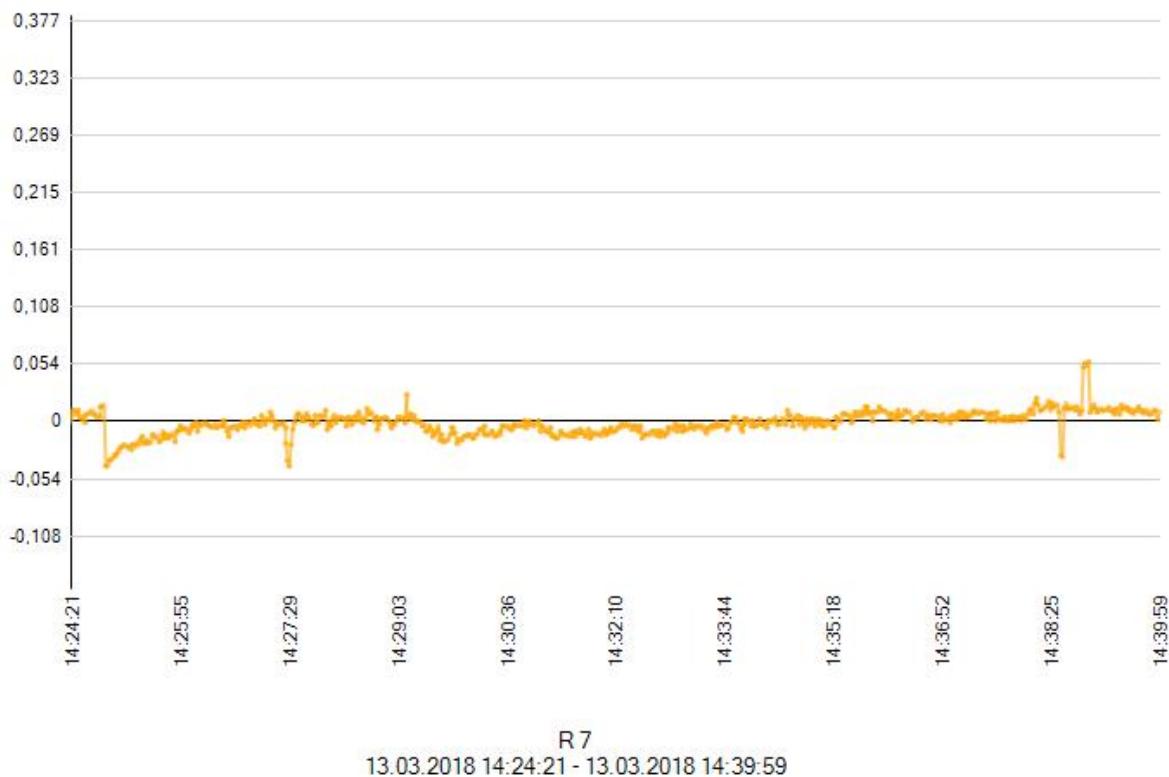
Mean = 0,002 m Std. Dev. = 0,013 m Min. = -0,048 m Max. = 0,043 m



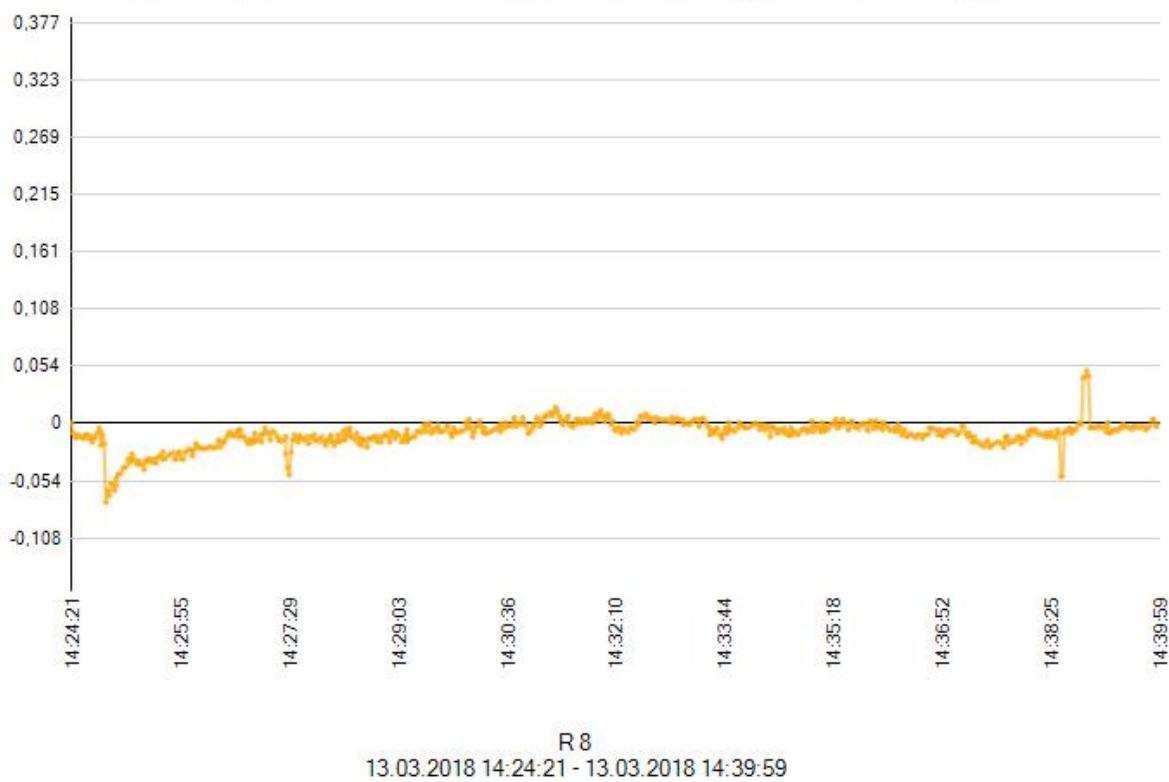
Mean = -0,005 m Std. Dev. = 0,014 m Min. = -0,056 m Max. = 0,075 m



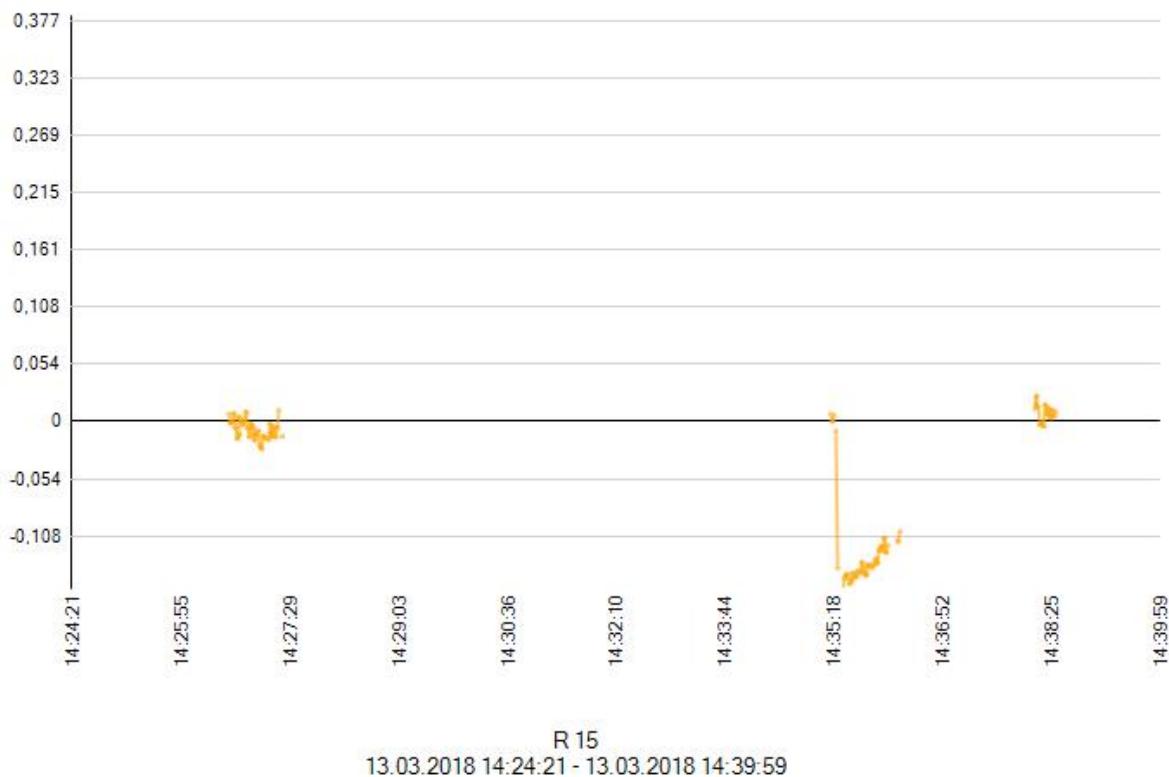
Mean = -0,001 m Std. Dev. = 0,010 m Min. = -0,042 m Max. = 0,055 m



Mean = -0,009 m Std. Dev. = 0,012 m Min. = -0,074 m Max. = 0,049 m

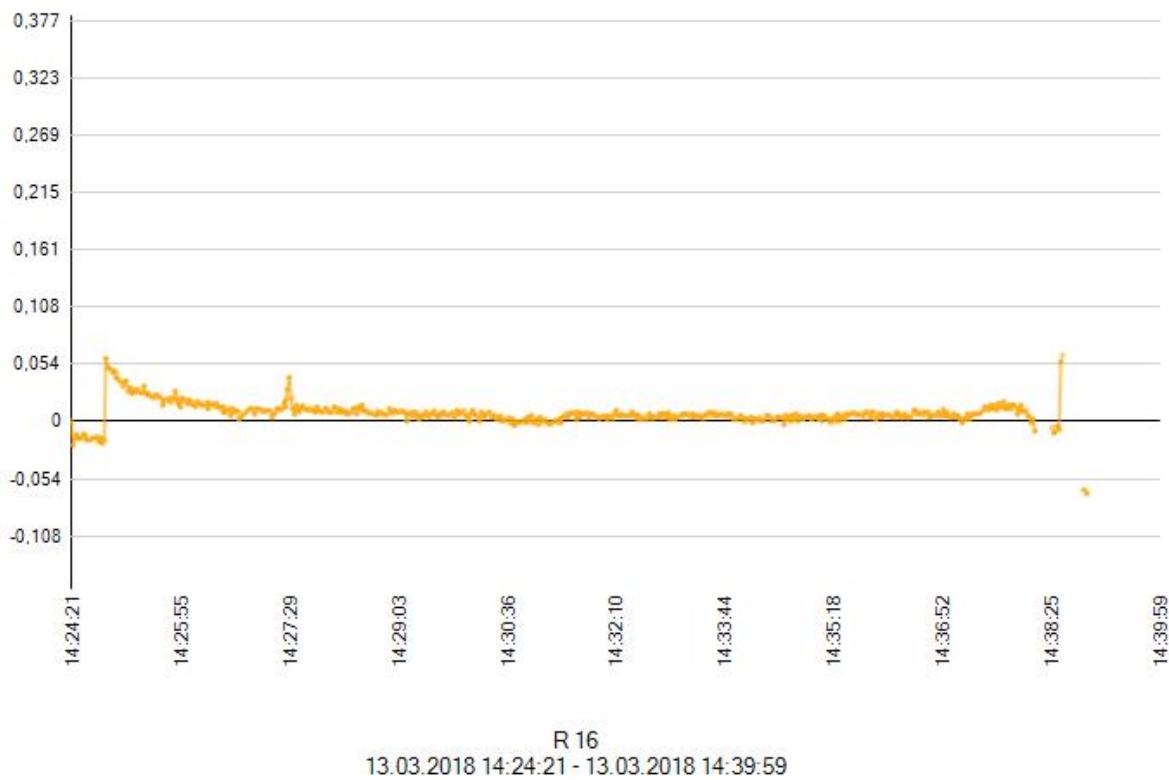


Mean = -0,053 m Std. Dev. = 0,065 m Min. = -0,156 m Max. = 0,023 m

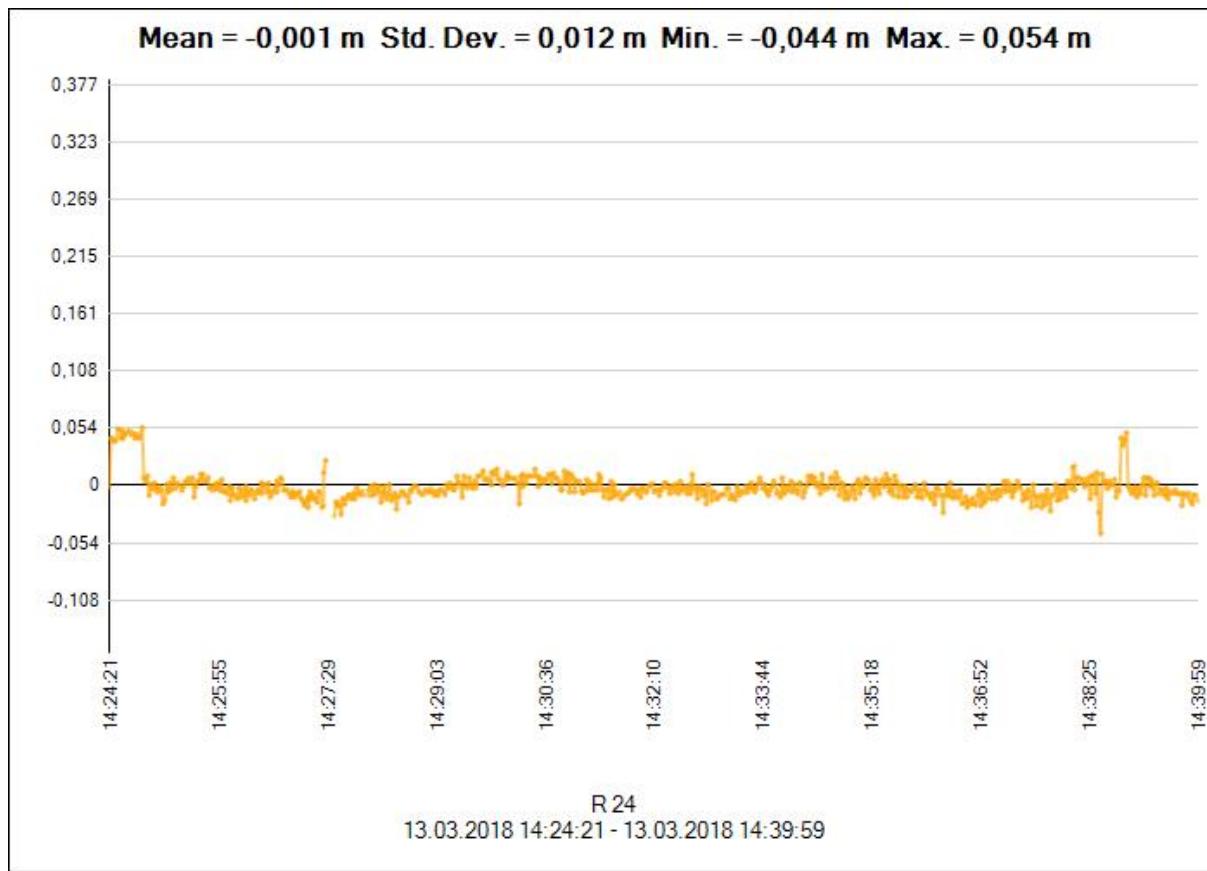


R 15
13.03.2018 14:24:21 - 13.03.2018 14:39:59

Mean = 0,007 m Std. Dev. = 0,011 m Min. = -0,068 m Max. = 0,063 m



R 16
13.03.2018 14:24:21 - 13.03.2018 14:39:59



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: Multiple Frequencies
 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

LYRS - T7-old (14:44:04-14:59:04) (S6)

Baseline observation: LYRS --- T7-old (B6)
 Processed: 23.03.2018 15:14:22
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,012 m
 Vertical precision: 0,034 m
 RMS: 0,002 m
 Maximum PDOP: 2,131
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 13.03.2018 14:44:04 (Local: UTC+1hr)
 Processing stop time: 13.03.2018 14:59:04 (Local: UTC+1hr)
 Processing duration: 12:15:00 AM
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T7-old				
Grid		Local		Global	
Easting	525857,936 m	Latitude	N78°15'01,91746"	Latitude	N78°15'01,91746"
Northing	8686580,735 m	Longitude	E16°08'15,24397"	Longitude	E16°08'15,24397"
Elevation	617,000 m	Height	617,000 m	Height	617,000 m

Vector					
9Ughb[16809,798 m	NS Fwd Azimuth	81°27'11"	L	-6838,746 m
Bcfh]b[2643,167 m	Ellipsoid Dist.	17023,076 m	M	15579,028 m
9Yj Uhcb	121,319 m	<Y][\h	121,319 m	N	612,773 m

Standard Errors

Vector errors:

9Ughb[0,004 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	0,004 m	M	0,004 m
9`Yj Uhcb	0,017 m	<Y][\h	0,017 m	N	0,018 m

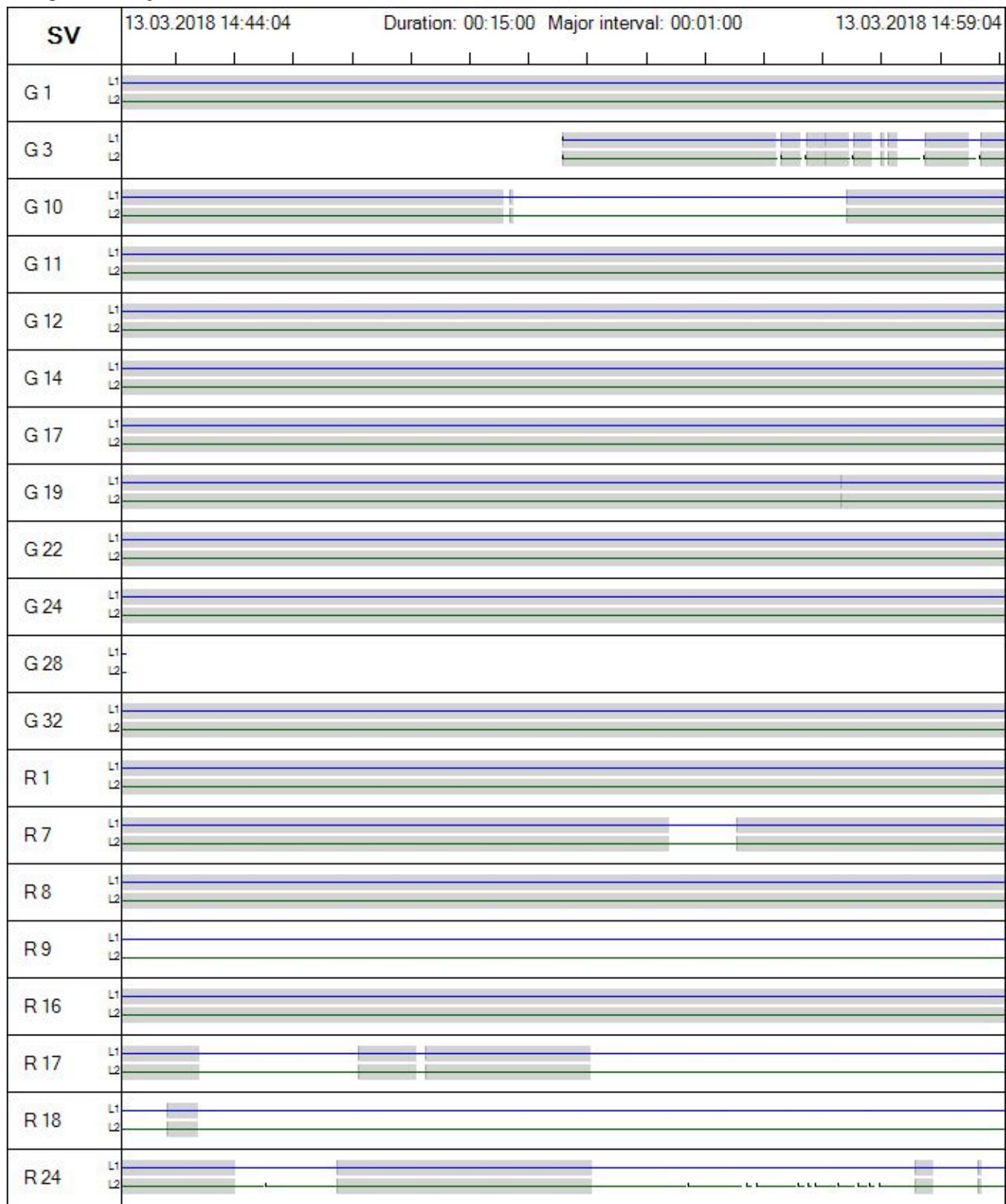
Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000105860		
Y	-0,0000022166	0,0000167839	
Z	0,0000115052	-0,0000302964	0,0003143074

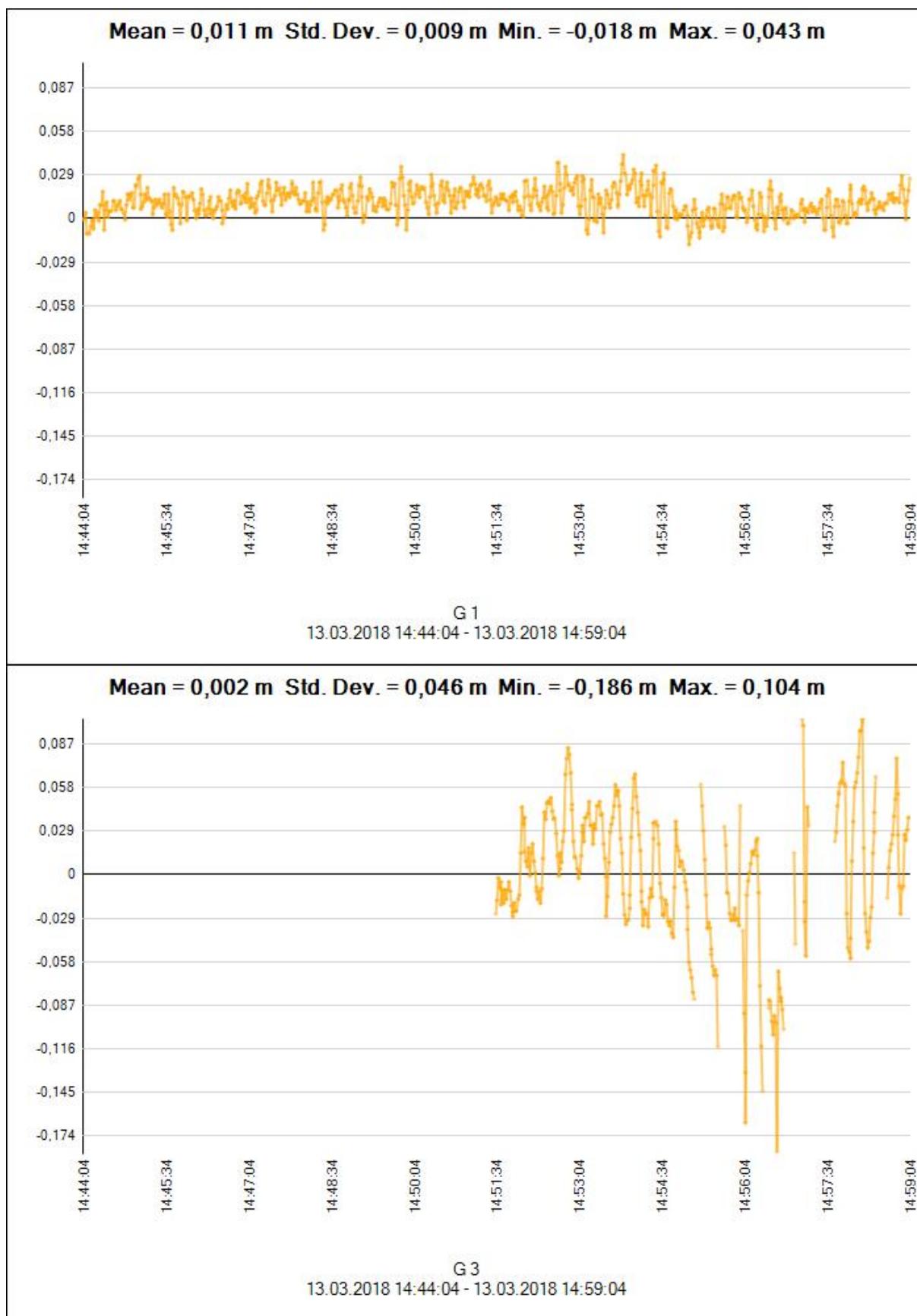
Occupations

	From	To
Point ID:	LYRS	T7-old
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0720.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250725.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	1,840 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

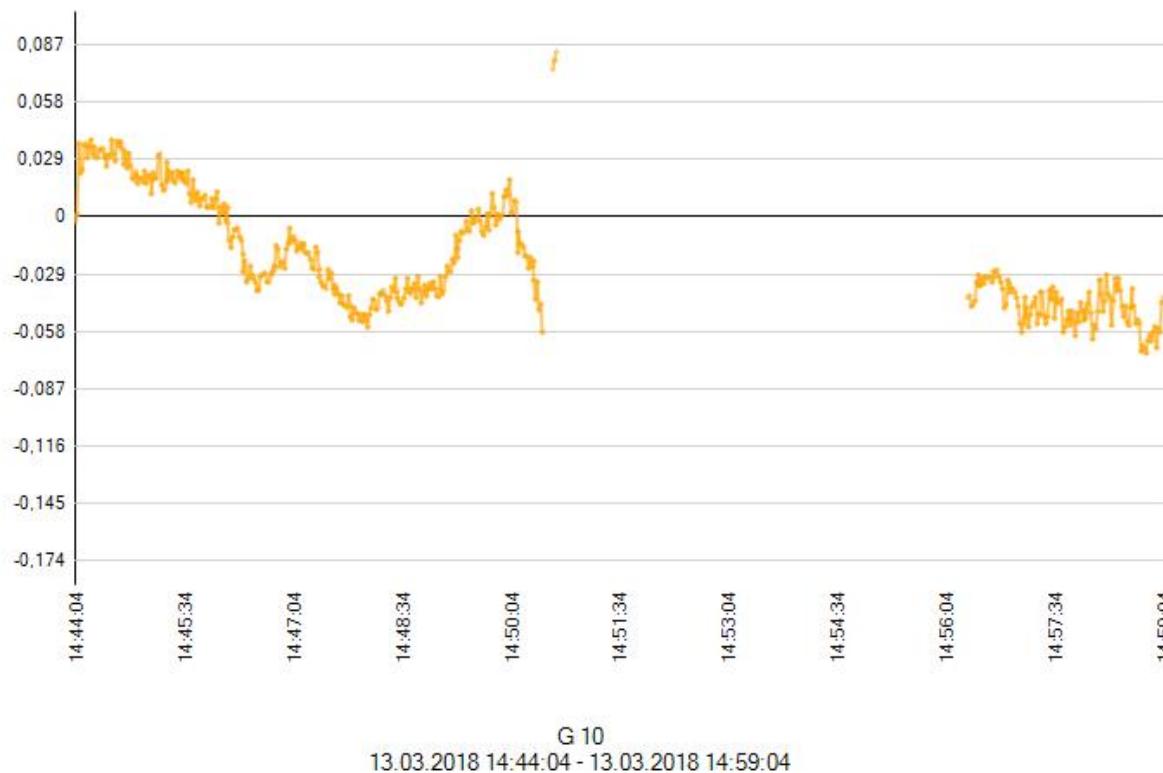
Tracking Summary



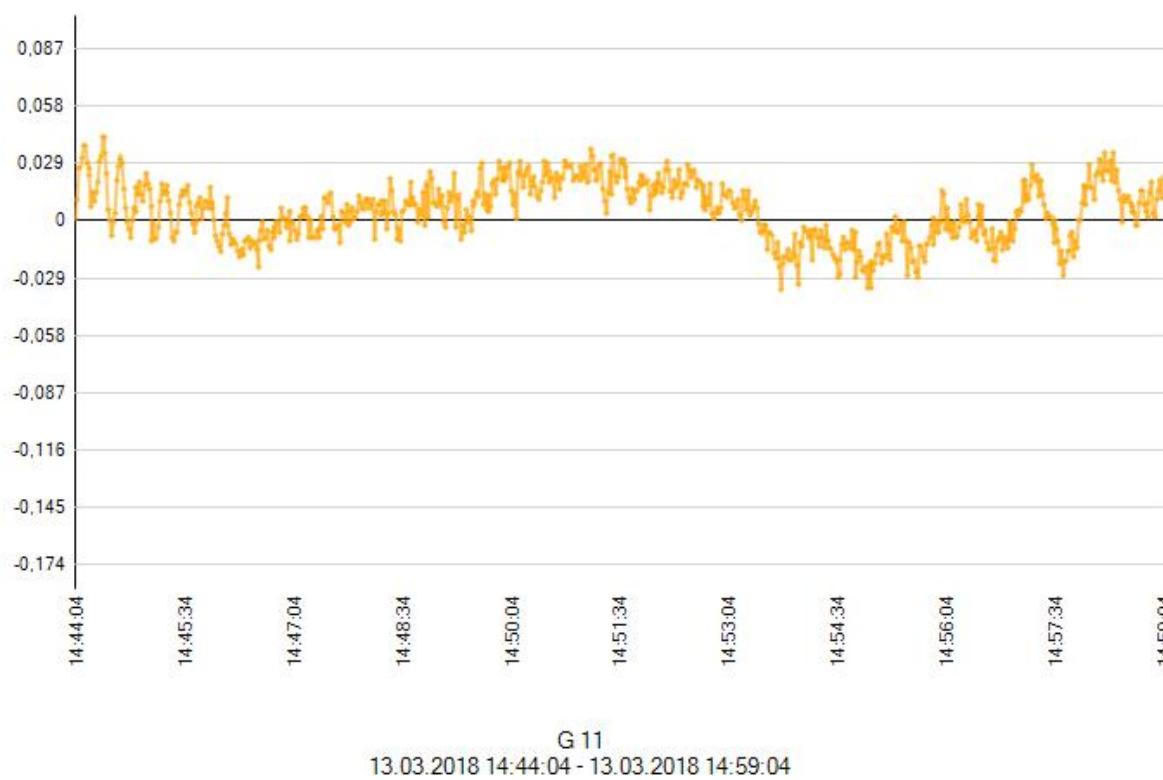
Residuals



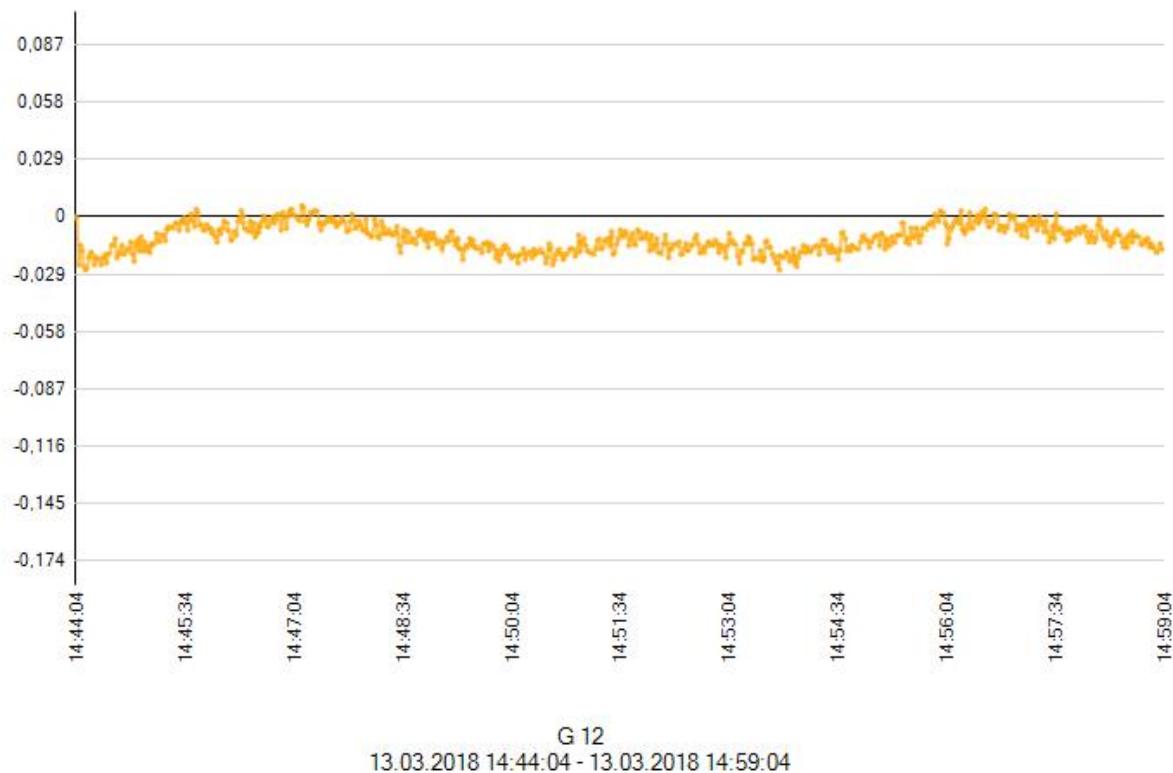
Mean = -0,020 m Std. Dev. = 0,028 m Min. = -0,069 m Max. = 0,084 m



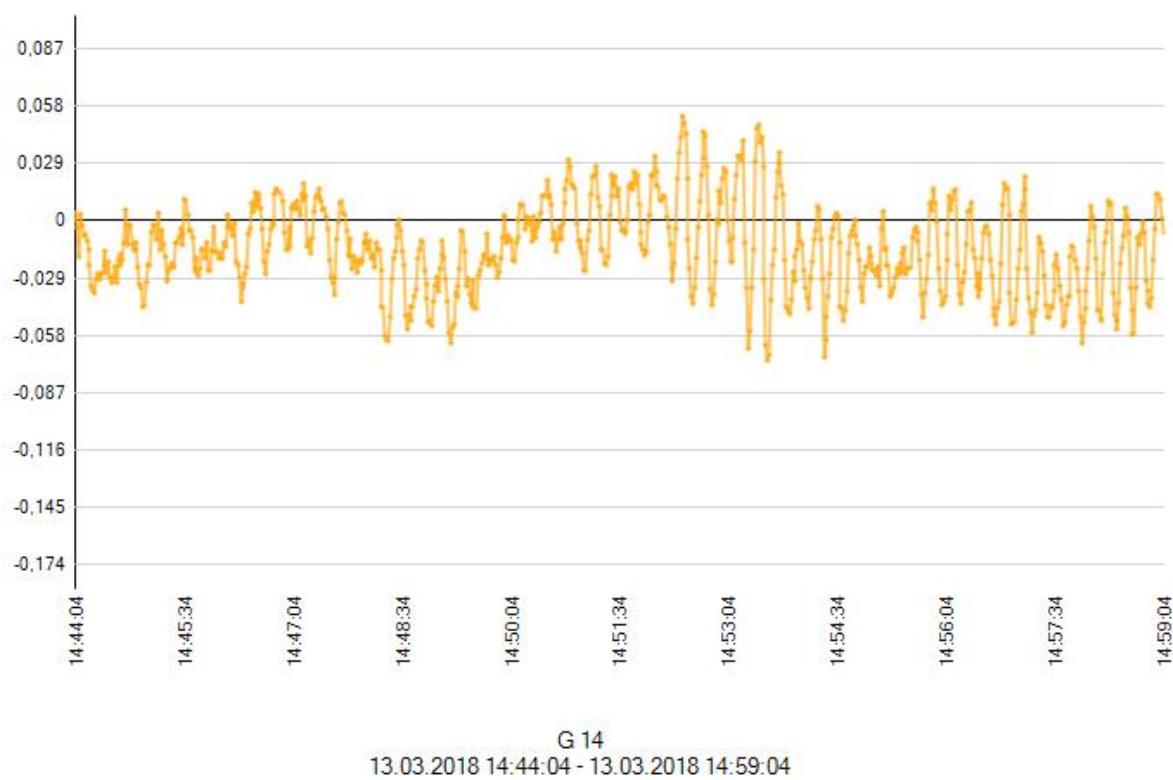
Mean = 0,005 m Std. Dev. = 0,014 m Min. = -0,034 m Max. = 0,043 m



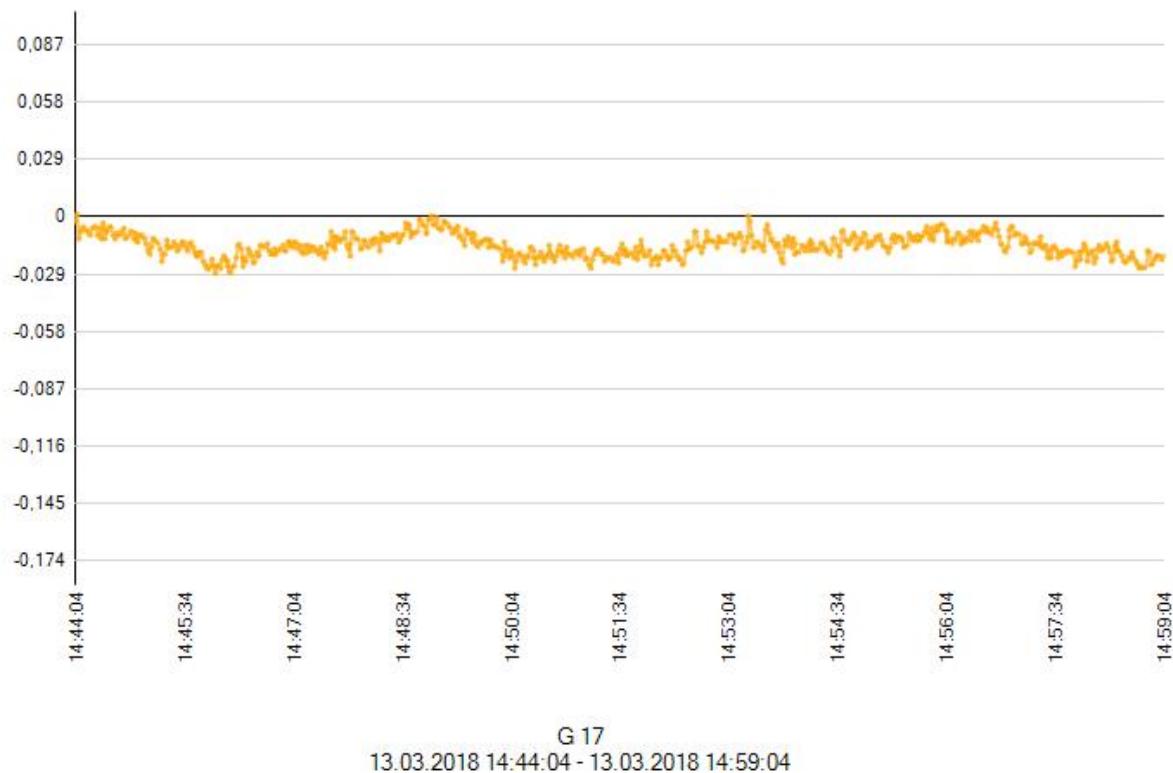
Mean = -0,010 m Std. Dev. = 0,007 m Min. = -0,027 m Max. = 0,005 m



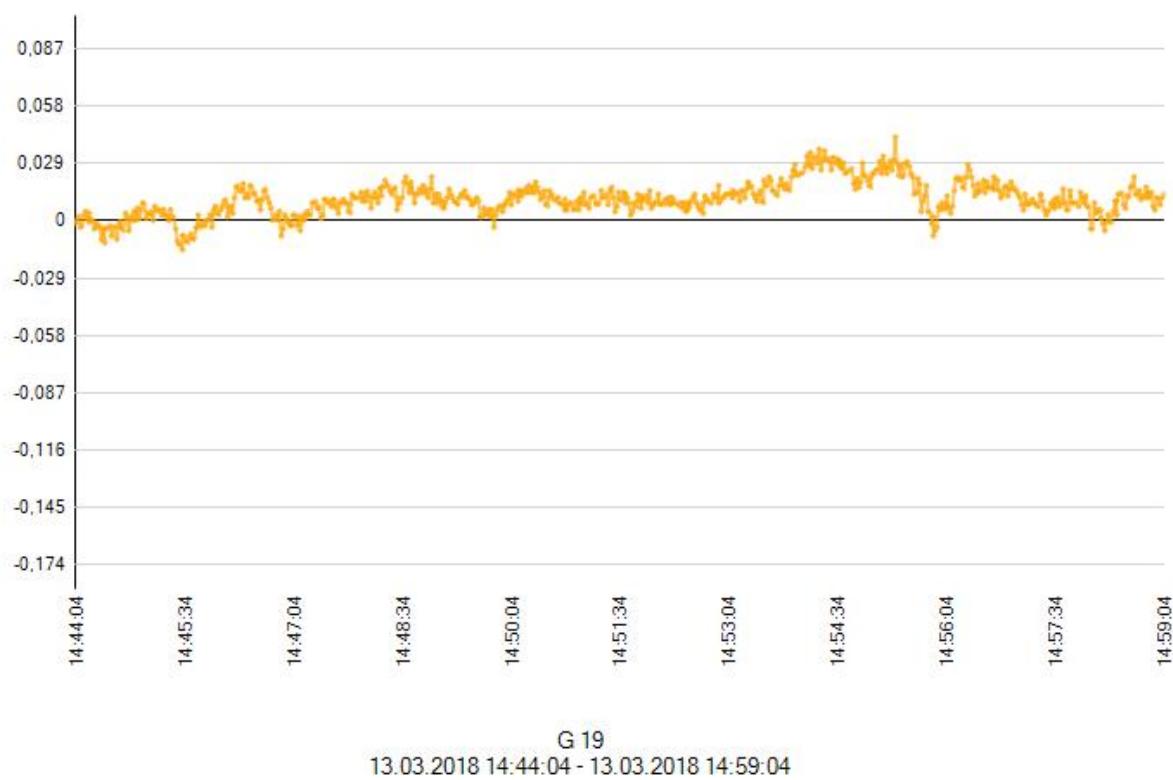
Mean = -0,013 m Std. Dev. = 0,022 m Min. = -0,071 m Max. = 0,053 m



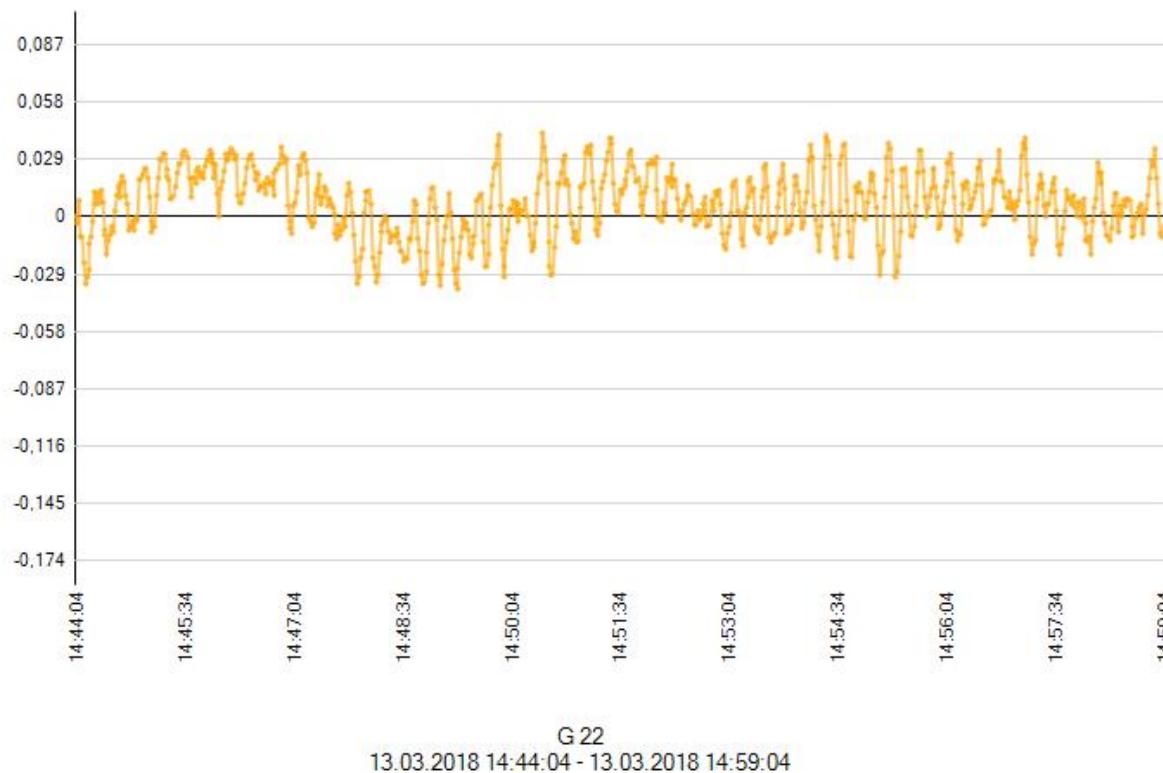
Mean = -0,014 m Std. Dev. = 0,006 m Min. = -0,029 m Max. = 0,002 m



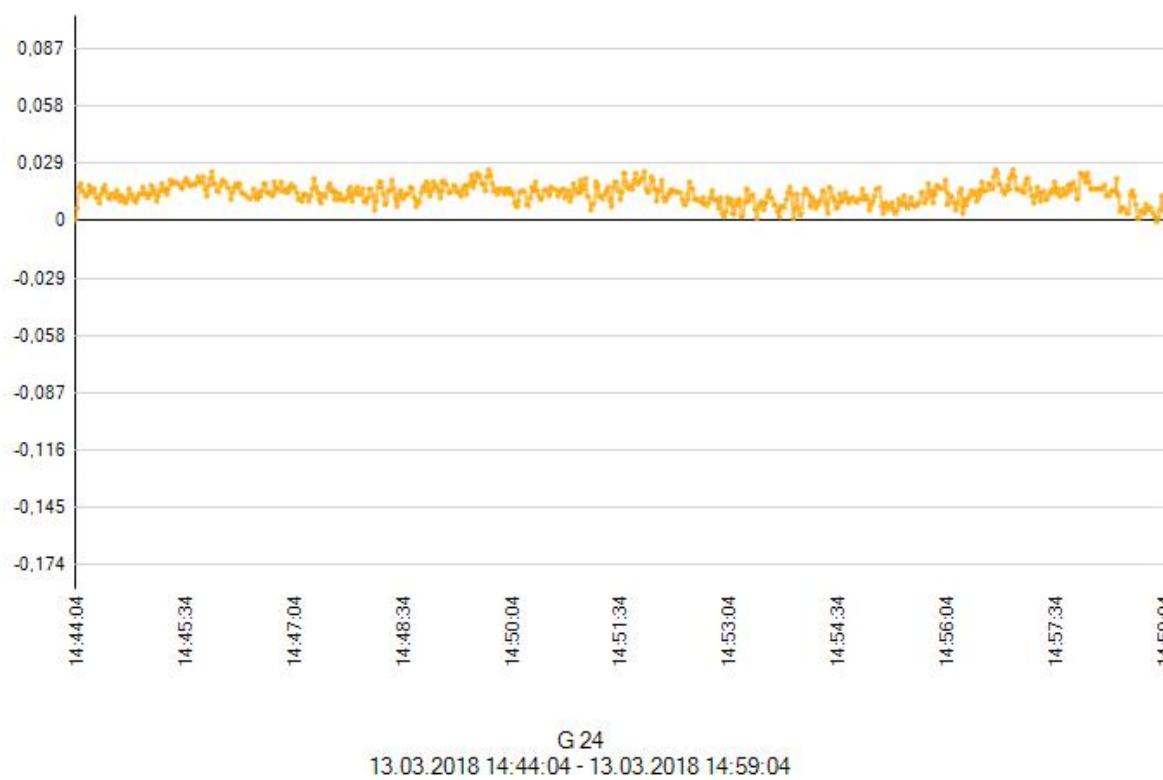
Mean = 0,011 m Std. Dev. = 0,009 m Min. = -0,015 m Max. = 0,042 m



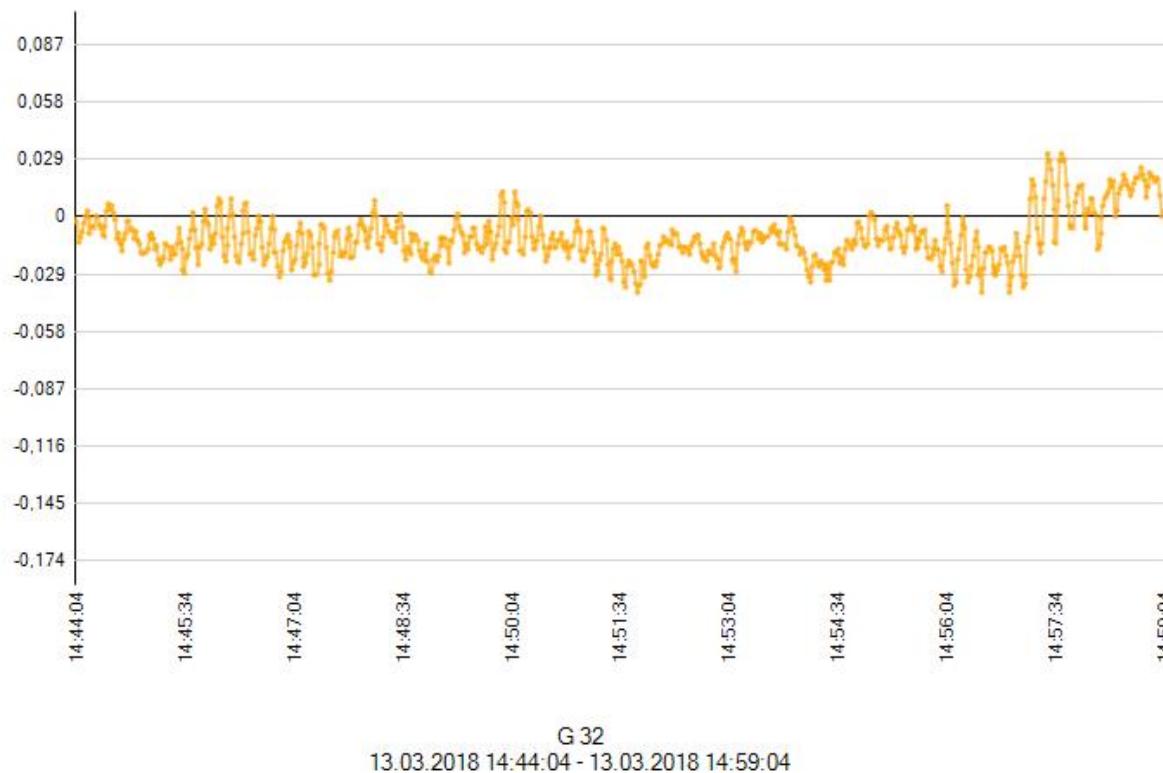
Mean = 0,007 m Std. Dev. = 0,016 m Min. = -0,037 m Max. = 0,043 m



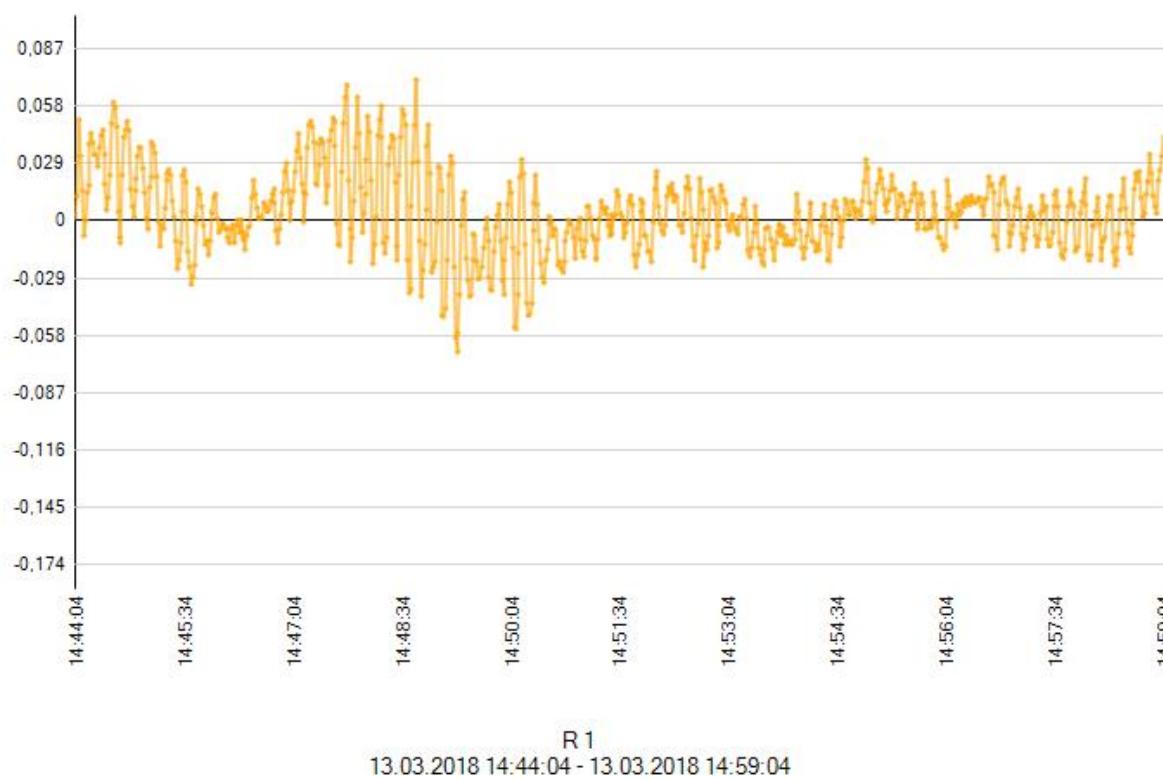
Mean = 0,013 m Std. Dev. = 0,005 m Min. = -0,001 m Max. = 0,026 m



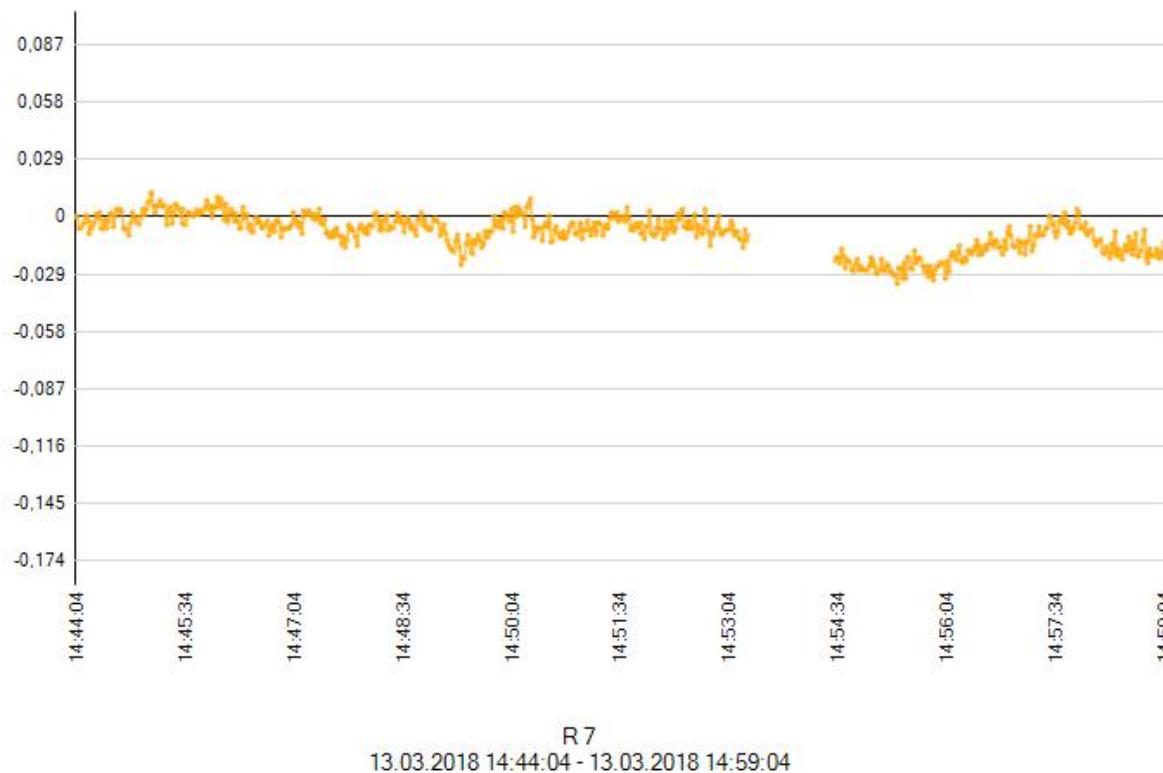
Mean = -0,011 m Std. Dev. = 0,012 m Min. = -0,038 m Max. = 0,032 m



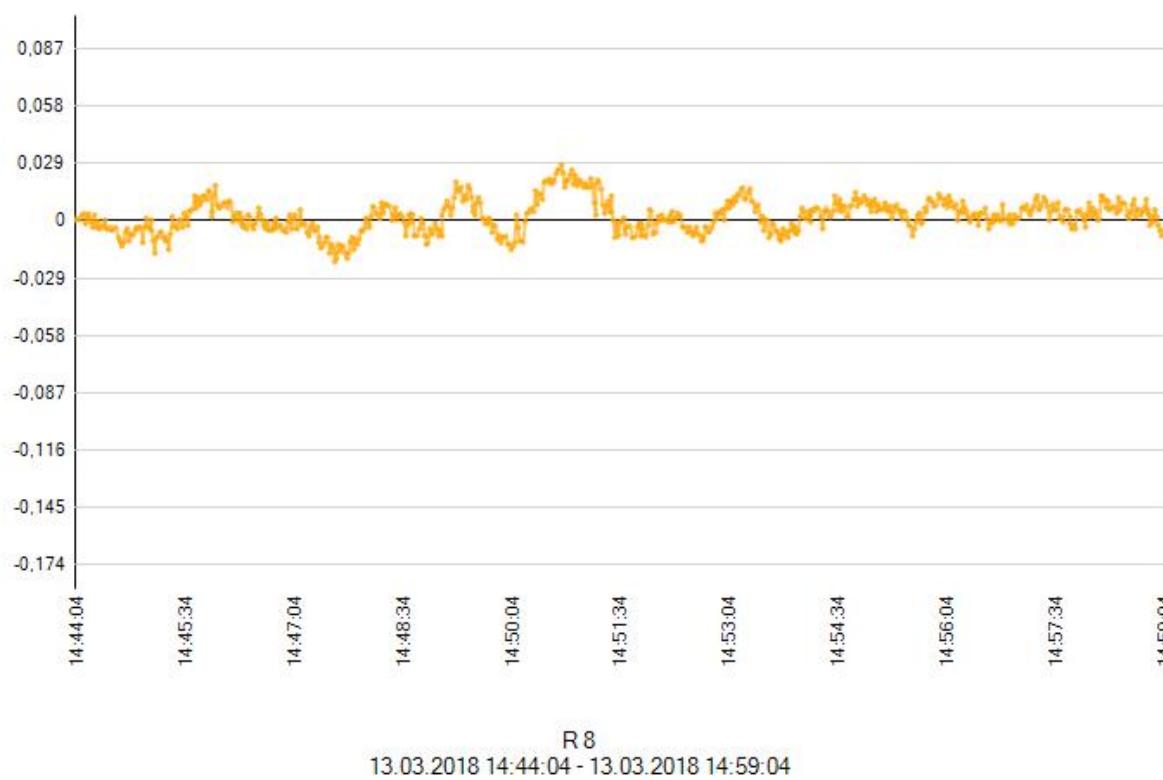
Mean = 0,004 m Std. Dev. = 0,019 m Min. = -0,066 m Max. = 0,071 m



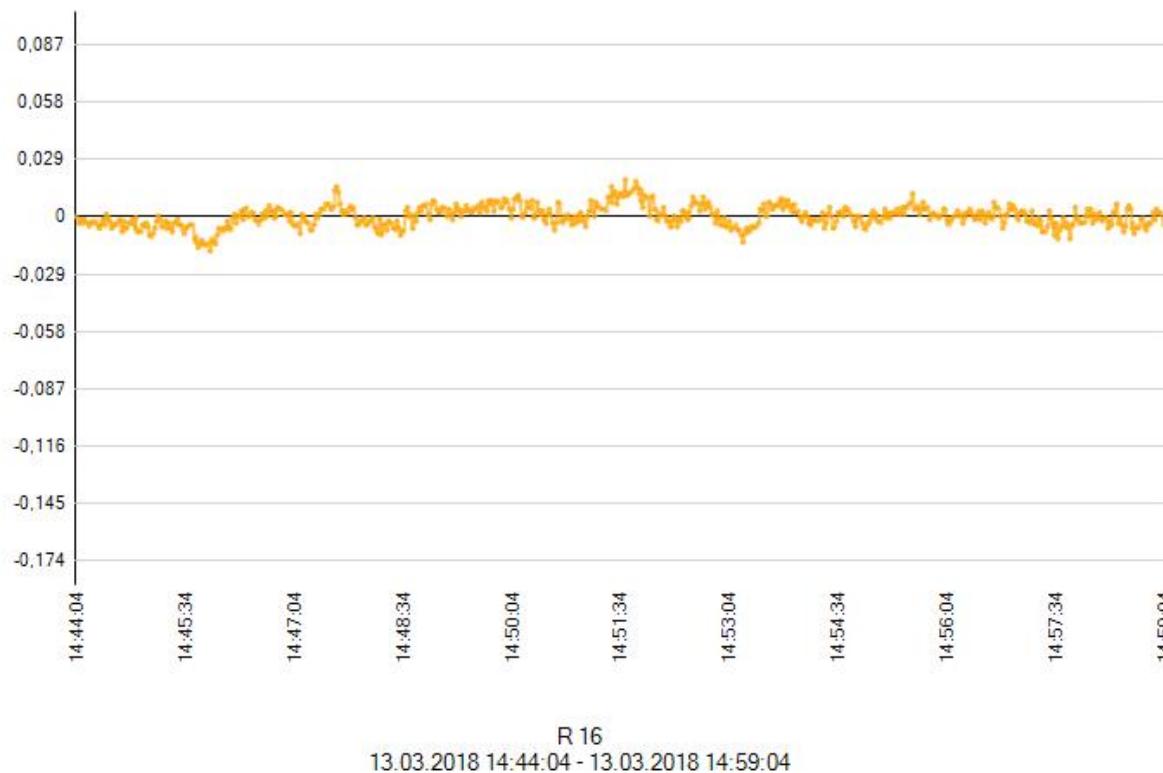
Mean = -0,008 m Std. Dev. = 0,009 m Min. = -0,034 m Max. = 0,013 m



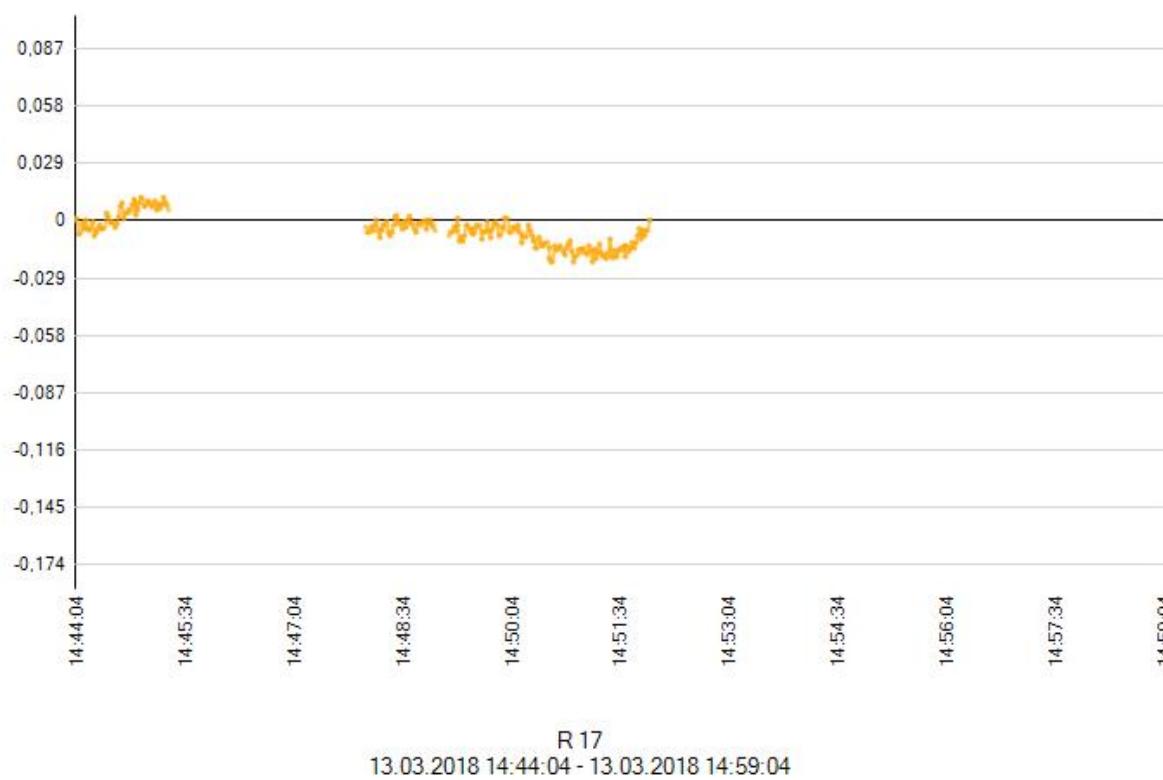
Mean = 0,002 m Std. Dev. = 0,008 m Min. = -0,020 m Max. = 0,028 m



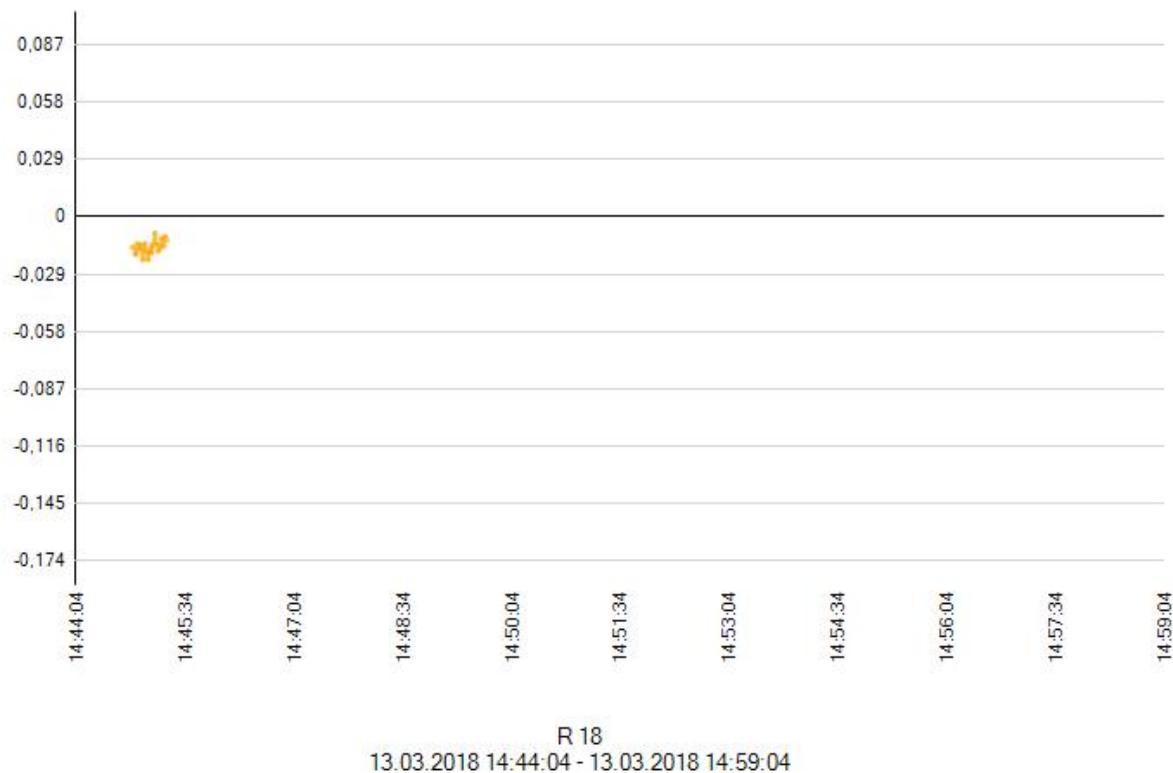
Mean = 0,000 m Std. Dev. = 0,005 m Min. = -0,017 m Max. = 0,019 m



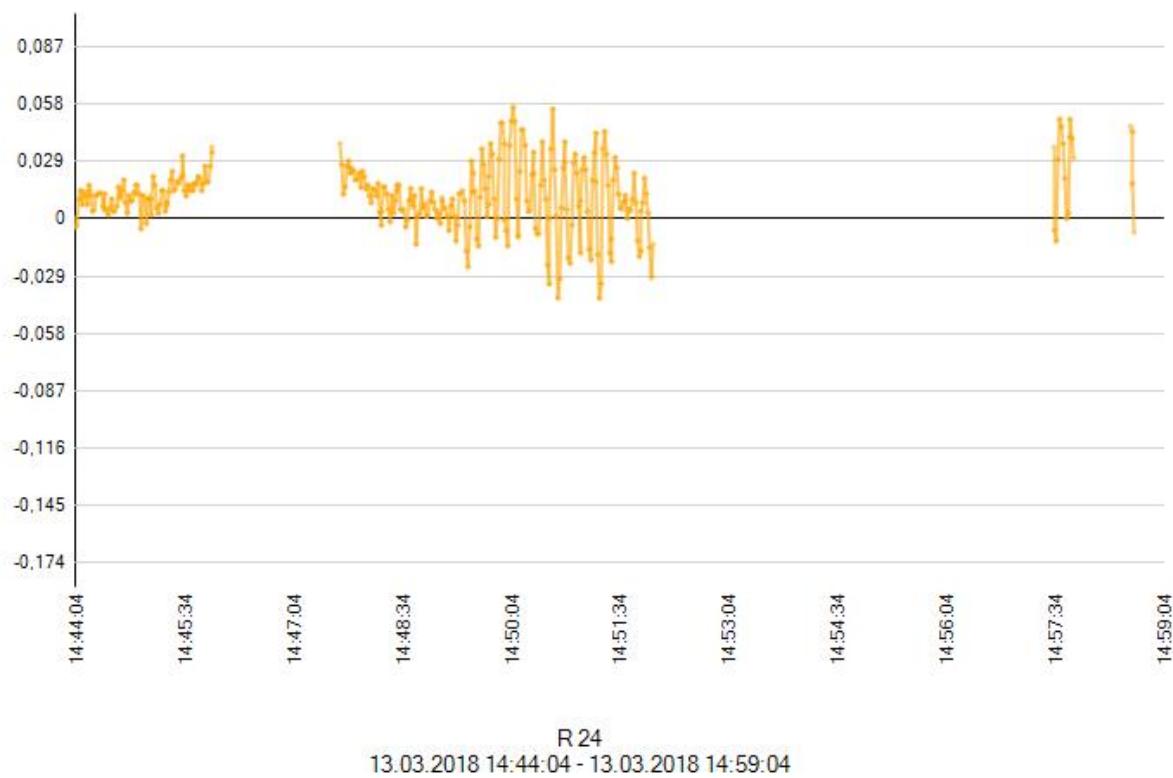
Mean = -0,005 m Std. Dev. = 0,008 m Min. = -0,021 m Max. = 0,012 m



Mean = -0,014 m Std. Dev. = 0,004 m Min. = -0,022 m Max. = -0,007 m



Mean = 0,011 m Std. Dev. = 0,016 m Min. = -0,040 m Max. = 0,057 m



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: Multiple Frequencies
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

LYRS - T2-2018 (15:12:45-15:32:25) (S2)

Baseline observation:	LYRS --- T2-2018 (B2)
Processed:	23.03.2018 15:14:33
Solution type:	Fixed
Frequency used:	Dual Frequency (L1, L2)
Horizontal precision:	0,025 m
Vertical precision:	0,060 m
RMS:	0,003 m
Maximum PDOP:	2,030
Ephemeris used:	Broadcast
Antenna model:	Trimble Calibration
Processing start time:	13.03.2018 15:12:45 (Local: UTC+1hr)
Processing stop time:	13.03.2018 15:32:25 (Local: UTC+1hr)
Processing duration:	12:19:40 AM
Processing interval:	1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T2-2018				
Grid		Local		Global	
Easting	527951,179 m	Latitude	N78°15'24,37501"	Latitude	N78°15'24,37501"
Northing	8687319,438 m	Longitude	E16°13'49,12396"	Longitude	E16°13'49,12396"
Elevation	395,134 m	Height	395,134 m	Height	395,134 m

Vector					
9Ughjb[18903,041 m	NS Fwd Azimuth	80°14'45"	L	-8124,801 m
Bcfh]b[3381,870 m	Ellipsoid Dist.	19210,774 m	M	17401,549 m
9Yj Uhcb	-100,548 m	<Y][\h	-100,548 m	N	537,353 m

Standard Errors

Vector errors:

9Ughb[0,005 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,008 m
Bcfh]b[0,010 m	'9``]dgc]X 8]gh"	0,005 m	M	0,006 m
9`Yj Uhc[0,031 m	<Y][\h	0,031 m	N	0,031 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000647176		
Y	0,0000194679	0,0000314237	
Z	0,0000151055	0,0000345824	0,0009748943

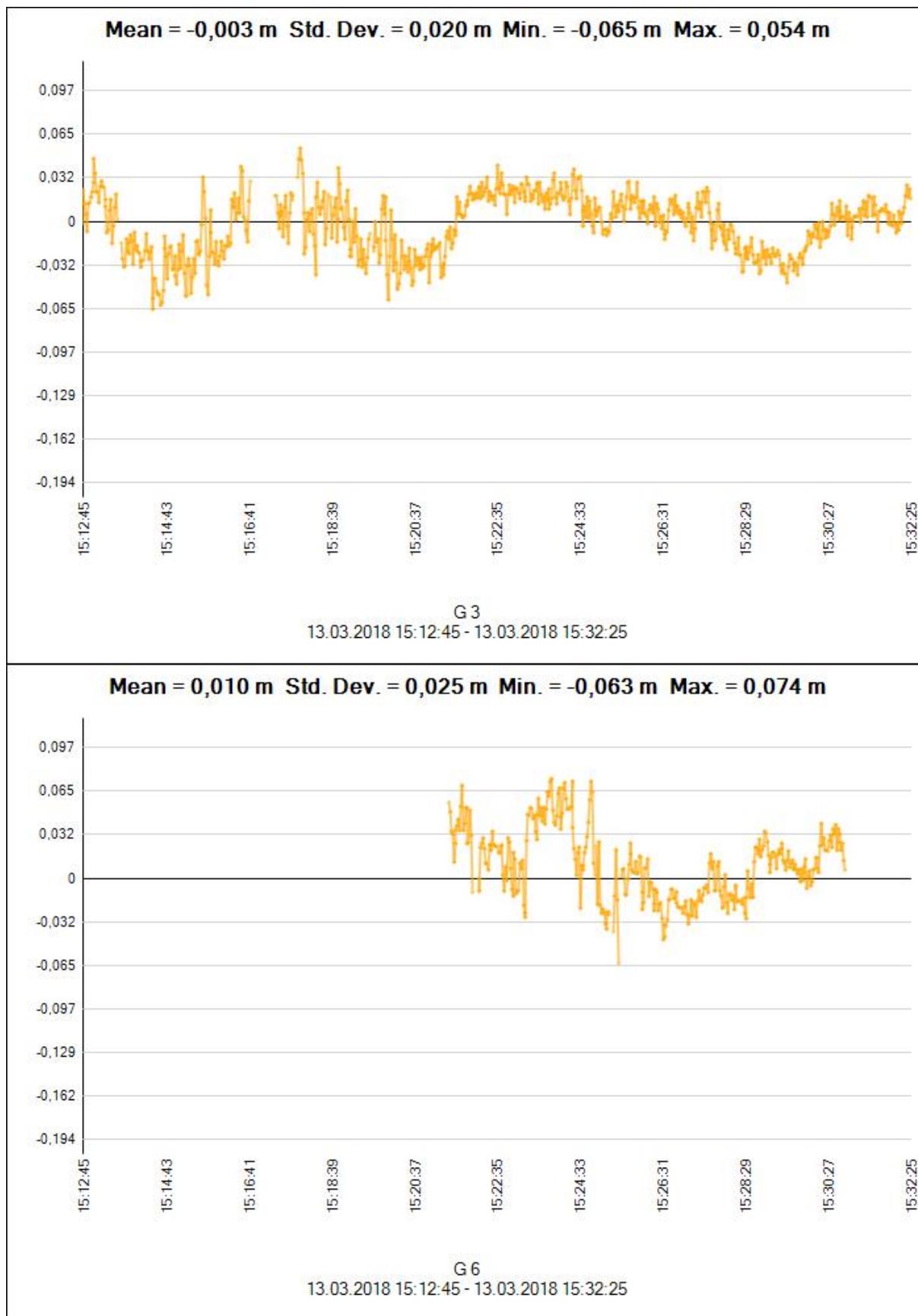
Occupations

	From	To
Point ID:	LYRS	T2-2018
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0720.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250726.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	0,660 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

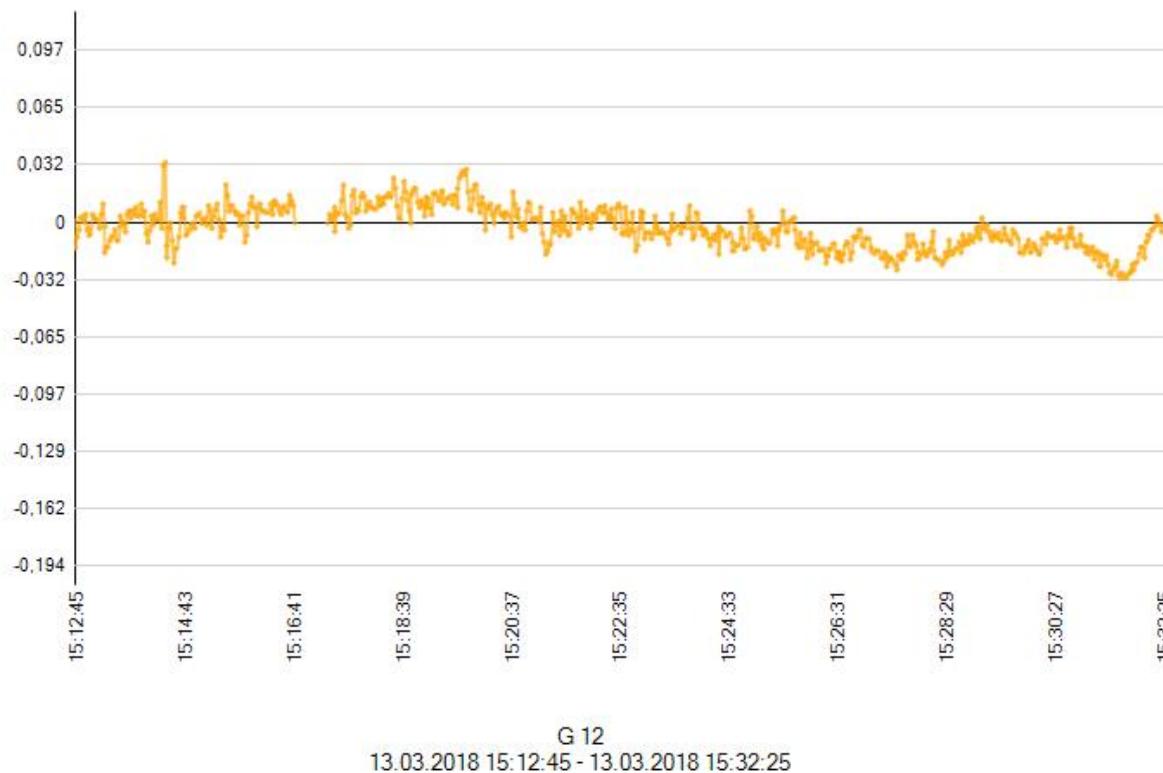
Tracking Summary

SV	13.03.2018 15:12:45	Duration: 00:19:40 Major interval: 00:01:00	13.03.2018 15:32:25
G 1	L1 L2		
G 3	L1 L2		
G 6	L1 L2		
G 12	L1 L2		
G 14	L1 L2		
G 17	L1 L2		
G 19	L1 L2		
G 22	L1 L2		
G 24	L1 L2		
G 25	L1 L2		
G 32	L1 L2		
R 1	L1 L2		
R 7	L1 L2		
R 8	L1 L2		
R 9	L1 L2		
R 10	L1 L2		
R 16	L1 L2		
R 17	L1 L2		
R 18	L1 L2		
R 24	L1		

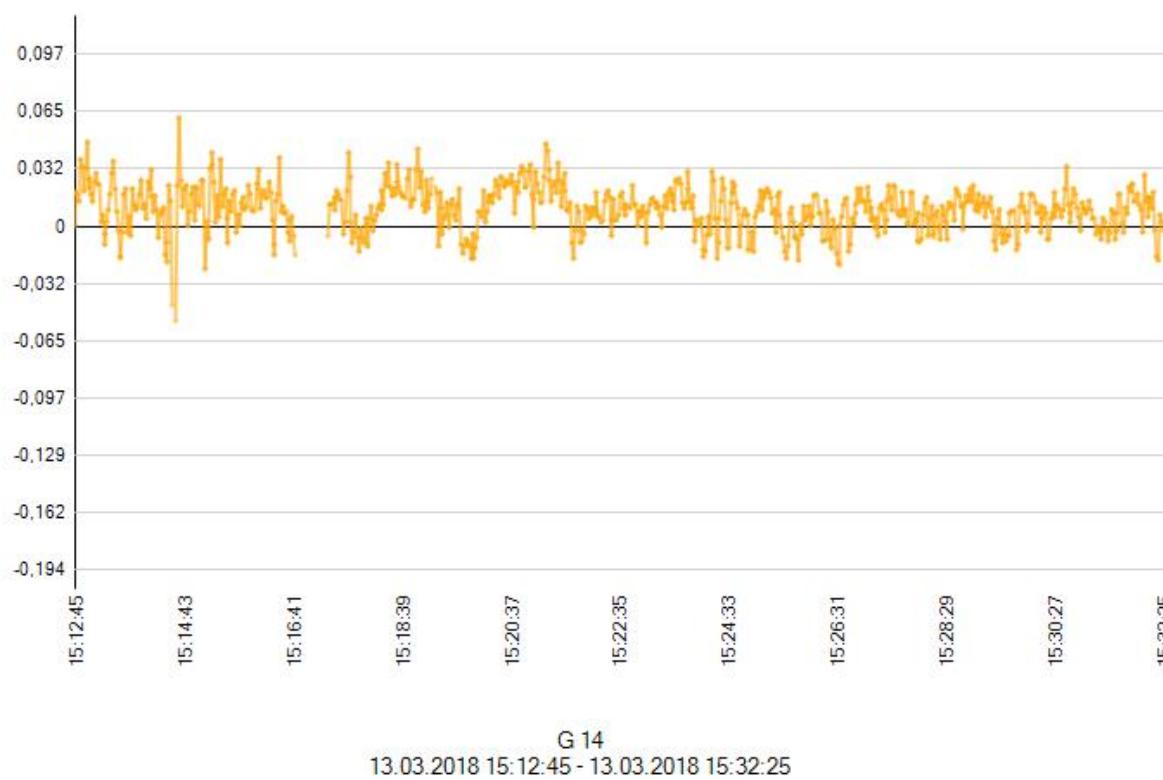
Residuals



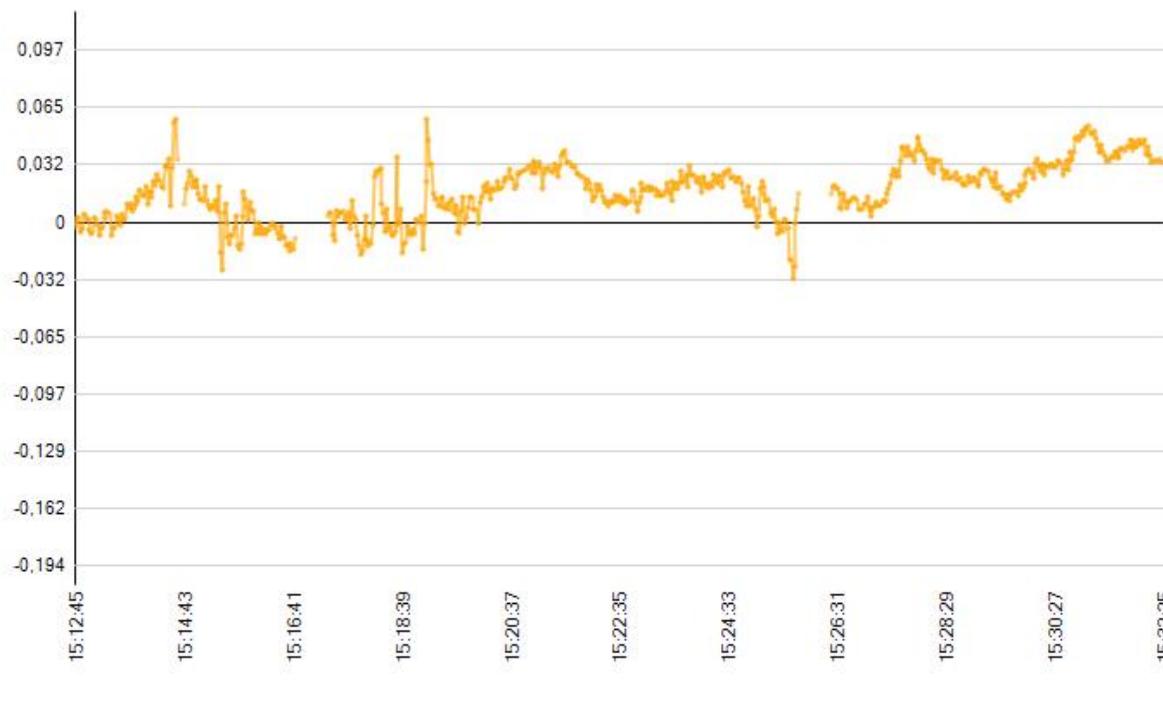
Mean = -0,003 m Std. Dev. = 0,011 m Min. = -0,032 m Max. = 0,034 m



Mean = 0,008 m Std. Dev. = 0,012 m Min. = -0,053 m Max. = 0,062 m



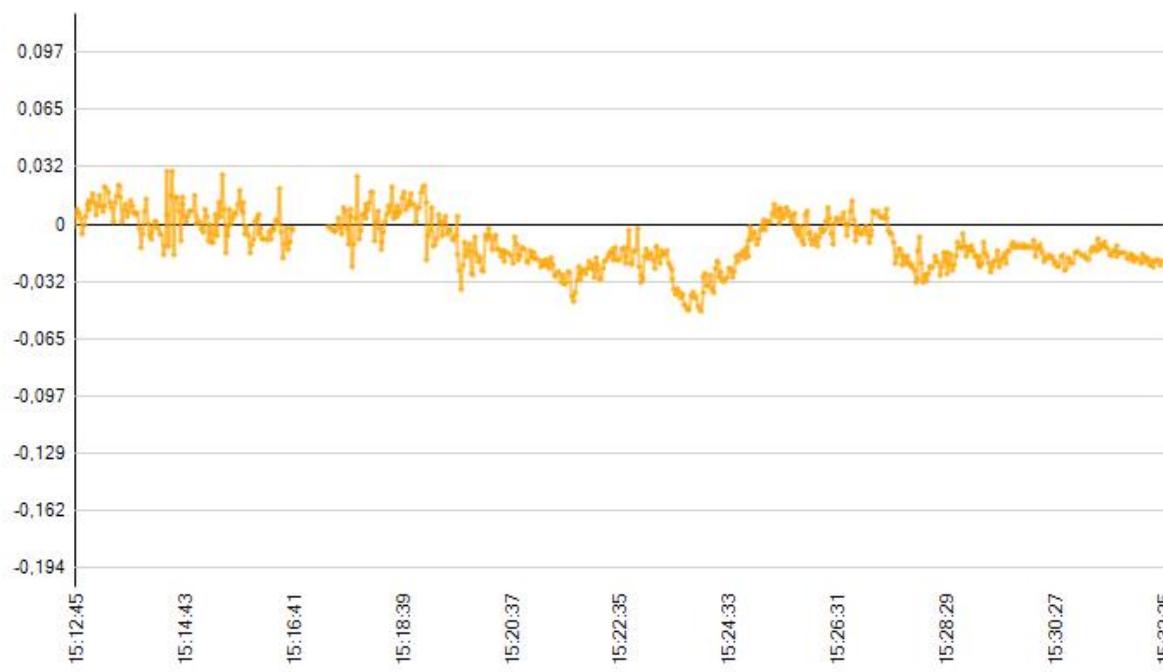
Mean = 0,017 m Std. Dev. = 0,015 m Min. = -0,032 m Max. = 0,059 m



G 17

13.03.2018 15:12:45 - 13.03.2018 15:32:25

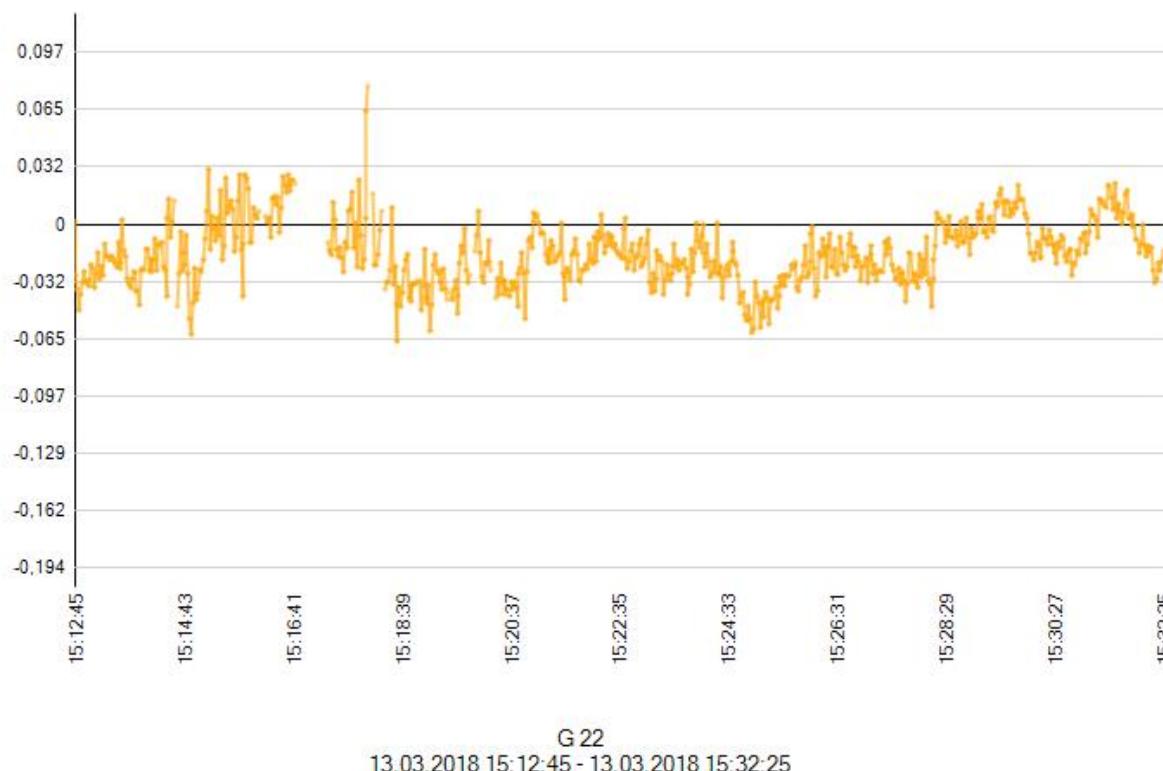
Mean = -0,010 m Std. Dev. = 0,014 m Min. = -0,049 m Max. = 0,030 m



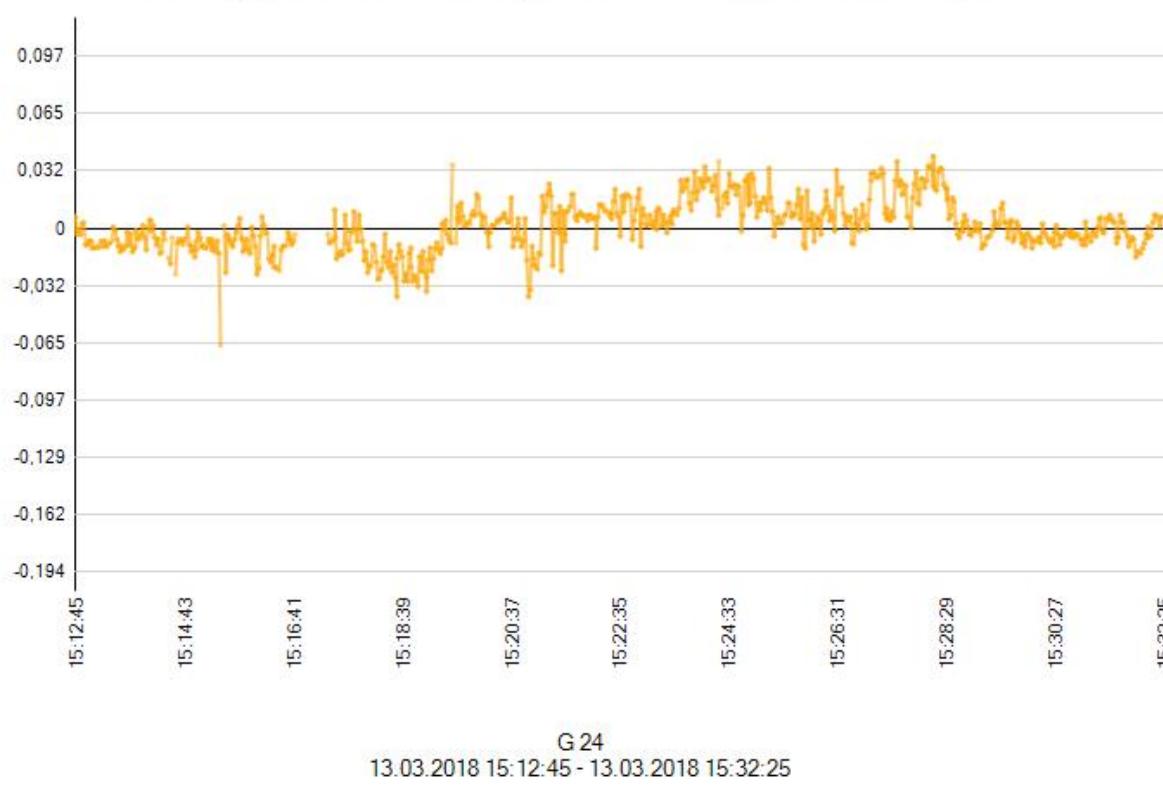
G 19

13.03.2018 15:12:45 - 13.03.2018 15:32:25

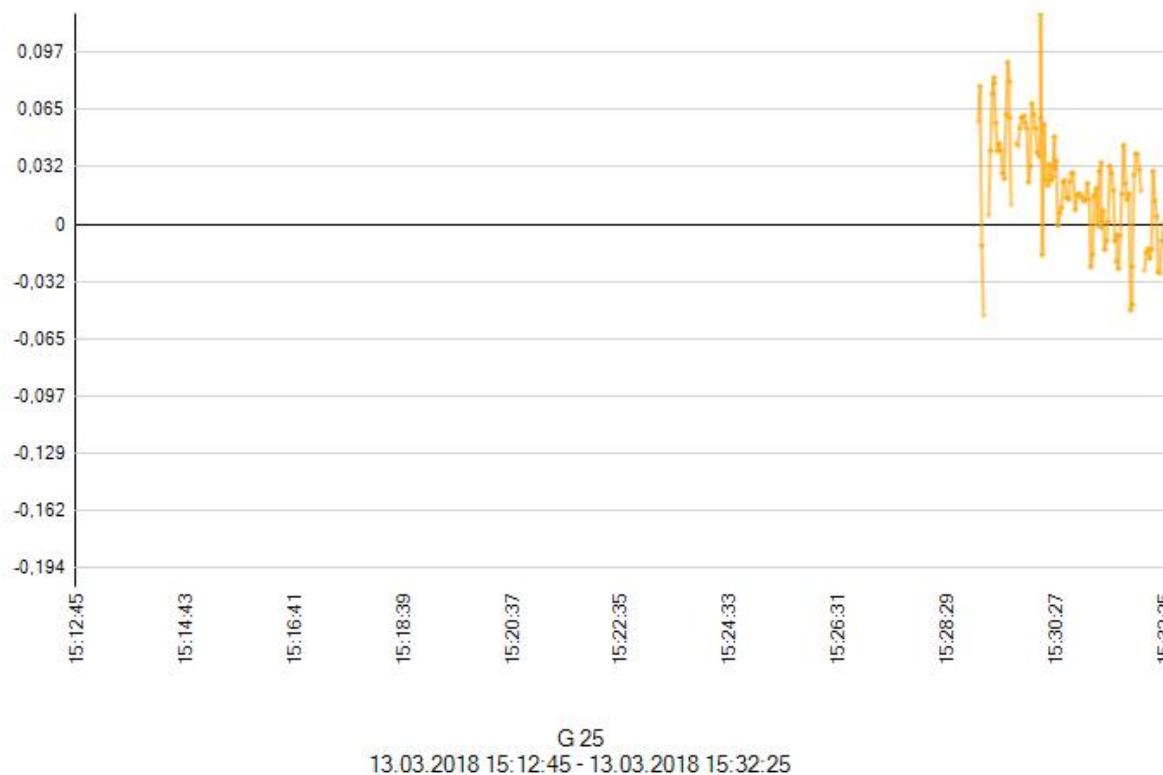
Mean = -0,015 m Std. Dev. = 0,017 m Min. = -0,066 m Max. = 0,078 m



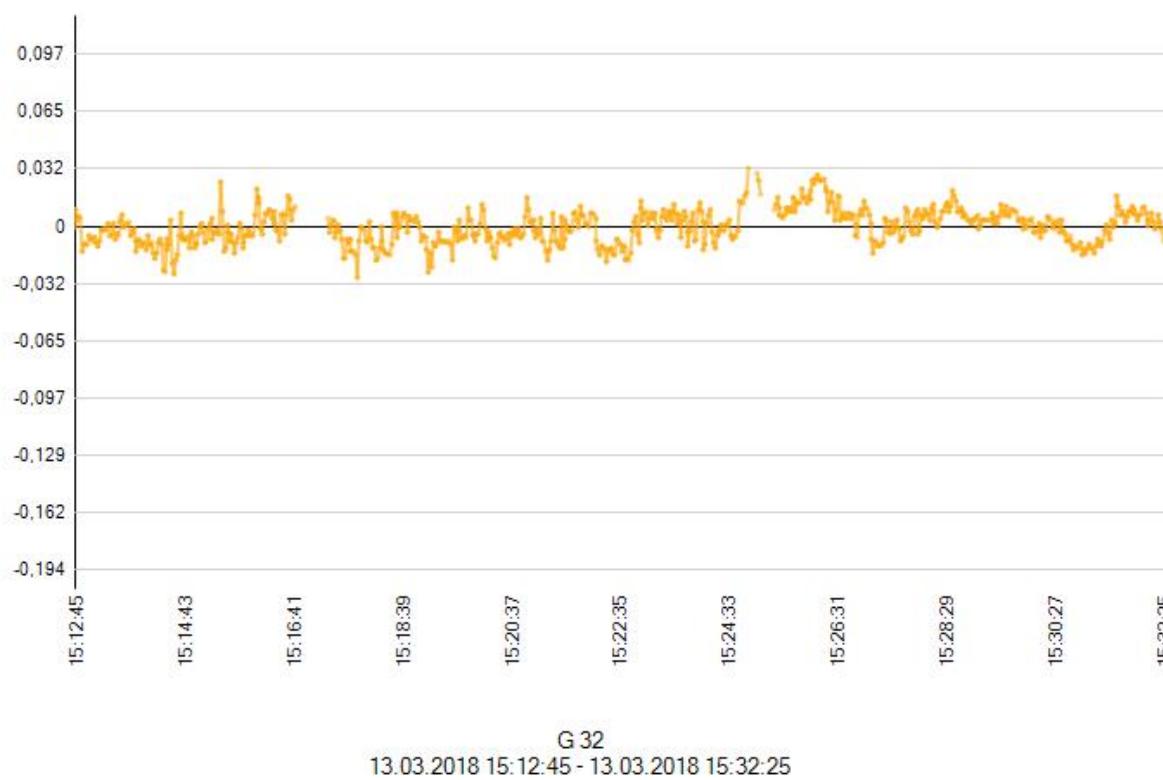
Mean = 0,001 m Std. Dev. = 0,013 m Min. = -0,066 m Max. = 0,041 m



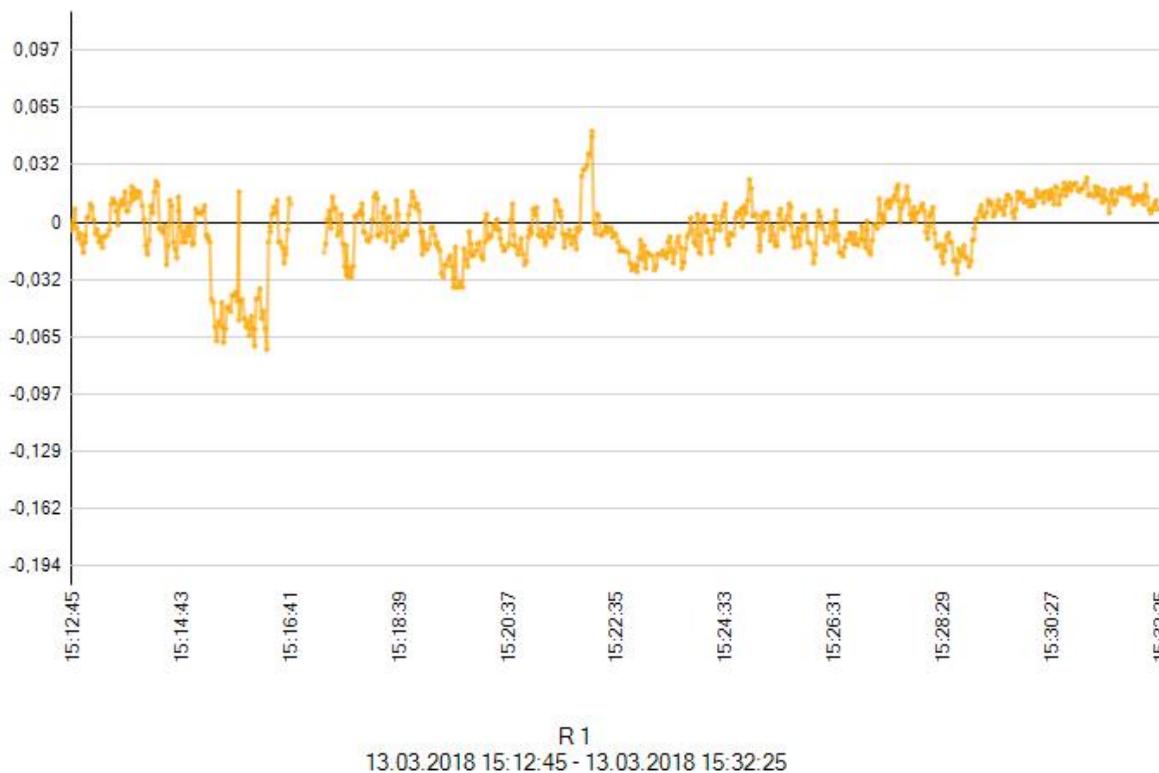
Mean = 0,020 m Std. Dev. = 0,028 m Min. = -0,052 m Max. = 0,119 m



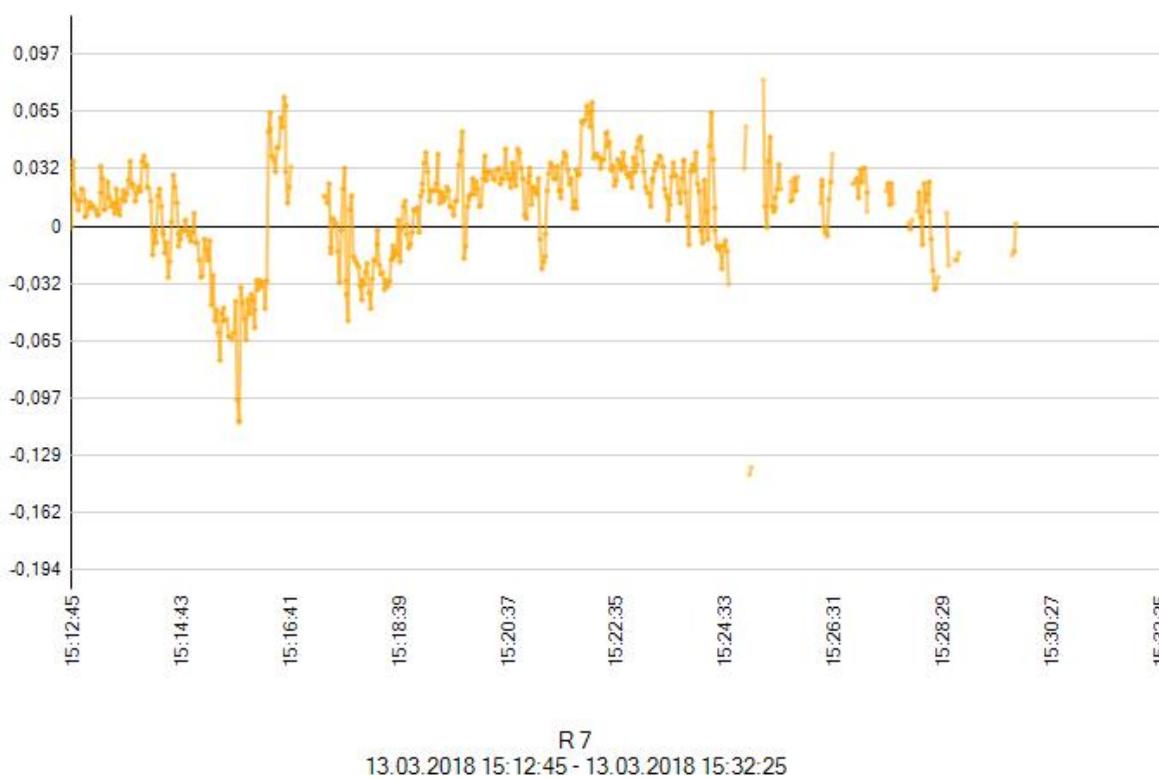
Mean = 0,000 m Std. Dev. = 0,009 m Min. = -0,029 m Max. = 0,033 m



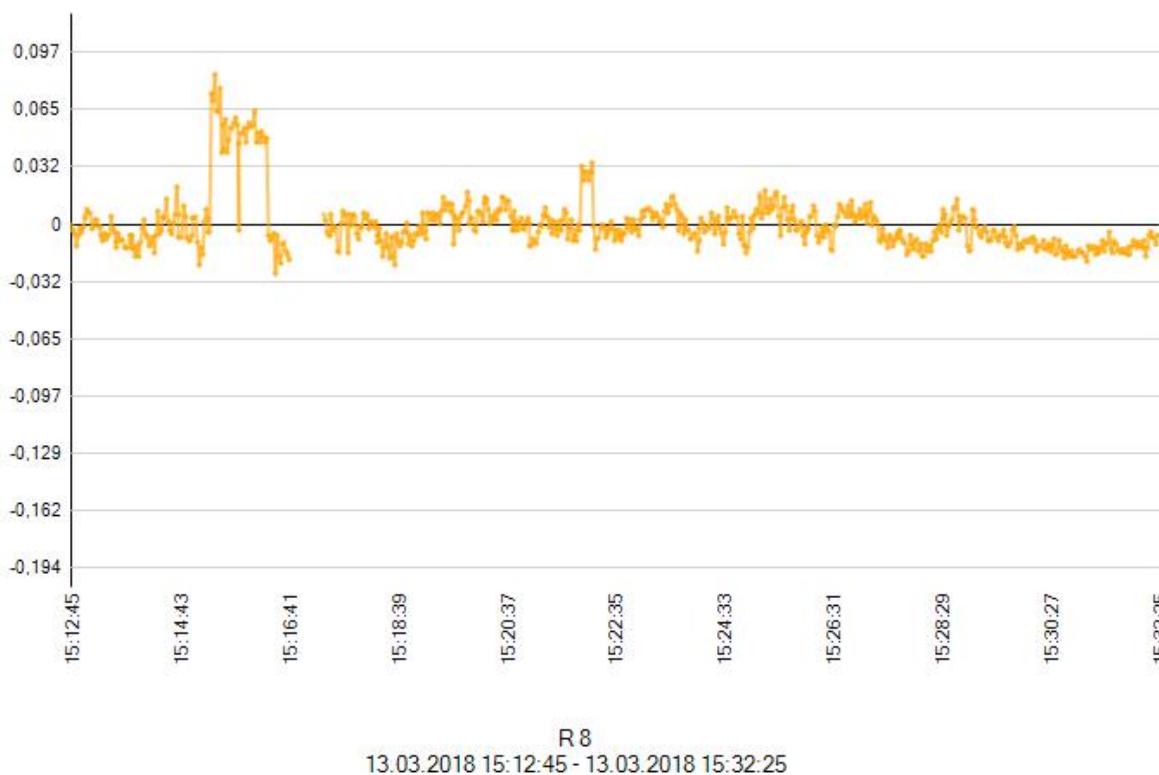
Mean = -0,004 m Std. Dev. = 0,017 m Min. = -0,072 m Max. = 0,051 m



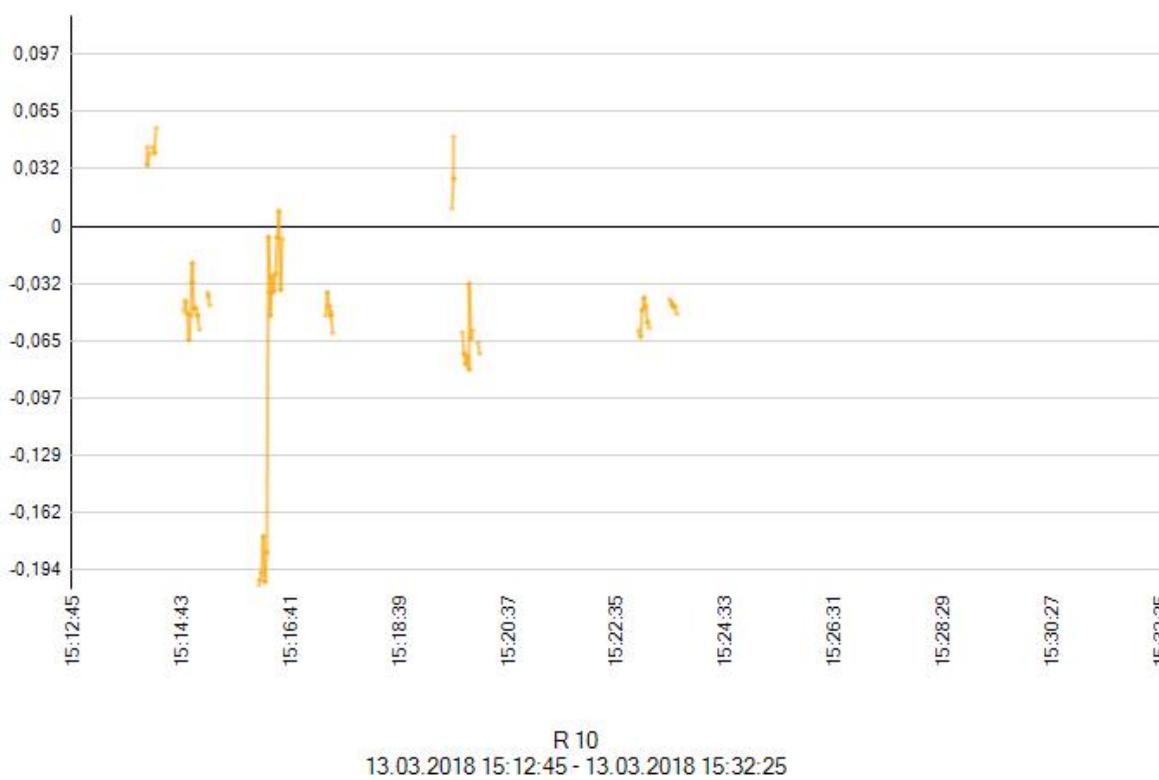
Mean = 0,009 m Std. Dev. = 0,028 m Min. = -0,140 m Max. = 0,082 m



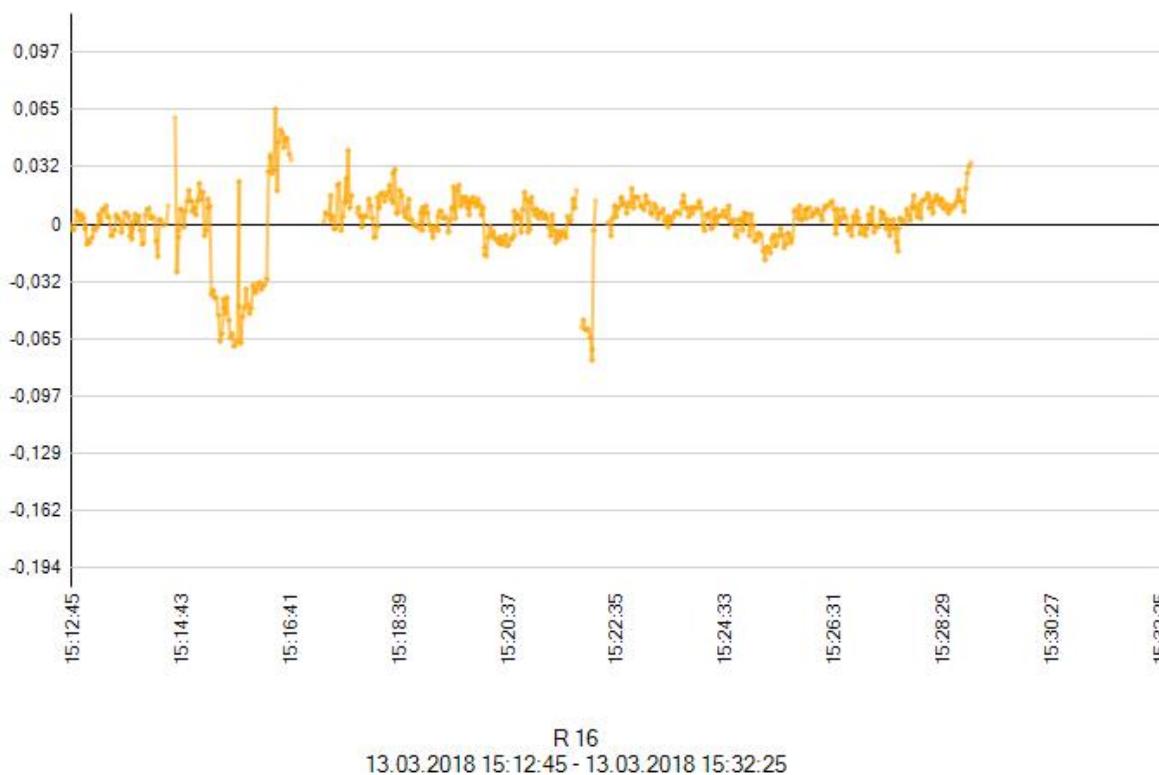
Mean = 0,000 m Std. Dev. = 0,015 m Min. = -0,028 m Max. = 0,085 m



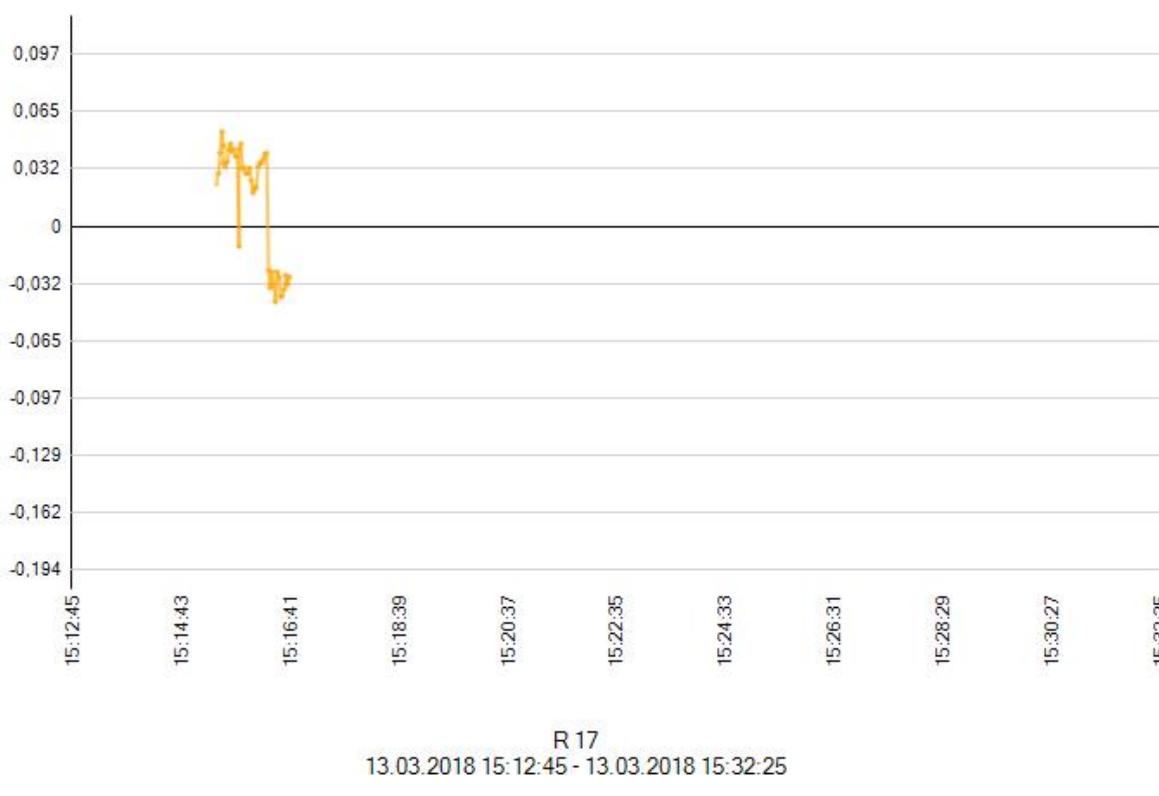
Mean = -0,051 m Std. Dev. = 0,058 m Min. = -0,204 m Max. = 0,056 m



Mean = 0,001 m Std. Dev. = 0,018 m Min. = -0,077 m Max. = 0,065 m



Mean = 0,012 m Std. Dev. = 0,031 m Min. = -0,042 m Max. = 0,054 m



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: Multiple Frequencies
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

LYRS - T4-2018 (16:16:48-16:33:20) (S3)

Baseline observation: LYRS --- T4-2018 (B3)
 Processed: 23.03.2018 15:14:44
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,013 m
 Vertical precision: 0,032 m
 RMS: 0,004 m
 Maximum PDOP: 2,631
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 13.03.2018 16:16:48 (Local: UTC+1hr)
 Processing stop time: 13.03.2018 16:33:20 (Local: UTC+1hr)
 Processing duration: 12:16:32 AM
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T4-2018				
Grid		Local		Global	
Easting	527124,774 m	Latitude	N78°15'19,05644"	Latitude	N78°15'19,05644"
Northing	8687137,403 m	Longitude	E16°11'37,62179"	Longitude	E16°11'37,62179"
Elevation	487,254 m	Height	487,254 m	Height	487,254 m

Vector					
9Ughjb[18076,636 m	NS Fwd Azimuth	80°21'03"	L	-7719,879 m
Bcfh]b[3199,835 m	Ellipsoid Dist.	18364,927 m	M	16654,515 m
9Yj Uhcb	-8,427 m	<Y][\h	-8,427 m	N	593,969 m

Standard Errors

Vector errors:

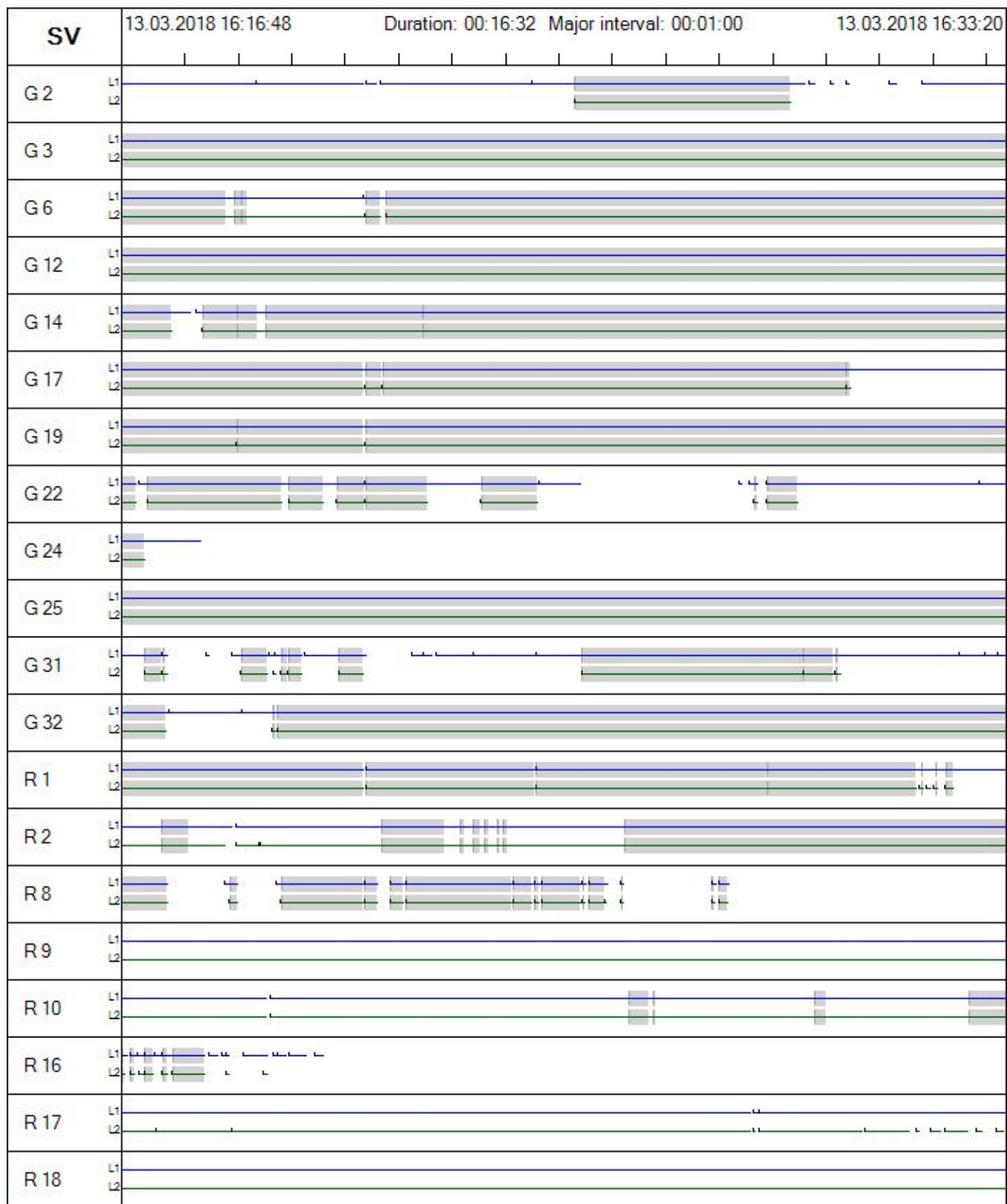
9Ughb[0,003 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,004 m
Bcfh]b[0,005 m	'9``]dgc]X 8]gh	0,003 m	M	0,003 m
9`Yj Uhcb	0,016 m	<Y][\h	0,016 m	N	0,017 m

Aposteriori Covariance Matrix (Meter²)

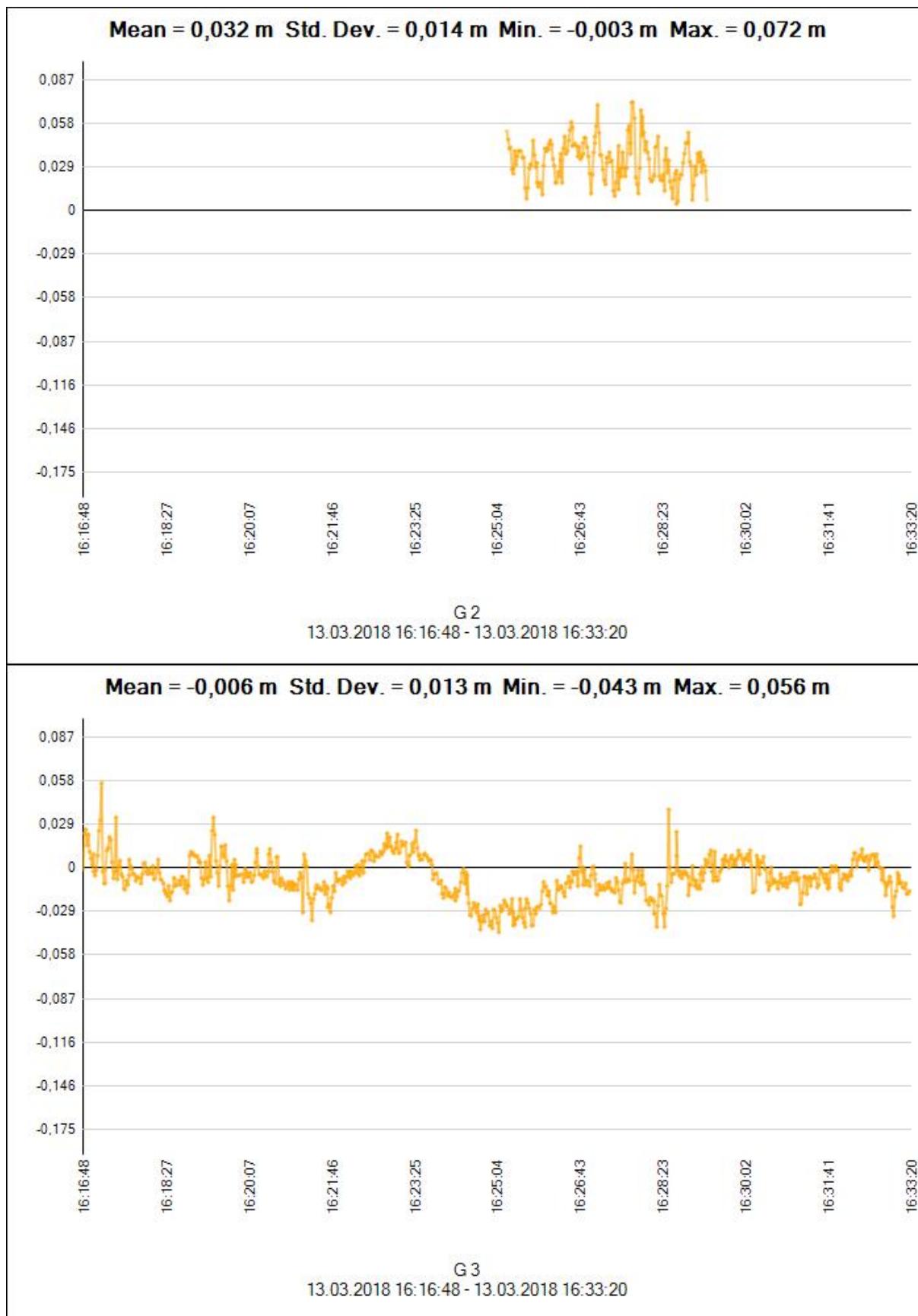
	X	Y	Z
X	0,0000140207		
Y	0,0000028214	0,0000120399	
Z	-0,0000022198	-0,0000091736	0,0002811099

Occupations

	From	To
Point ID:	LYRS	T4-2018
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0720.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250729.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	0,630 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount



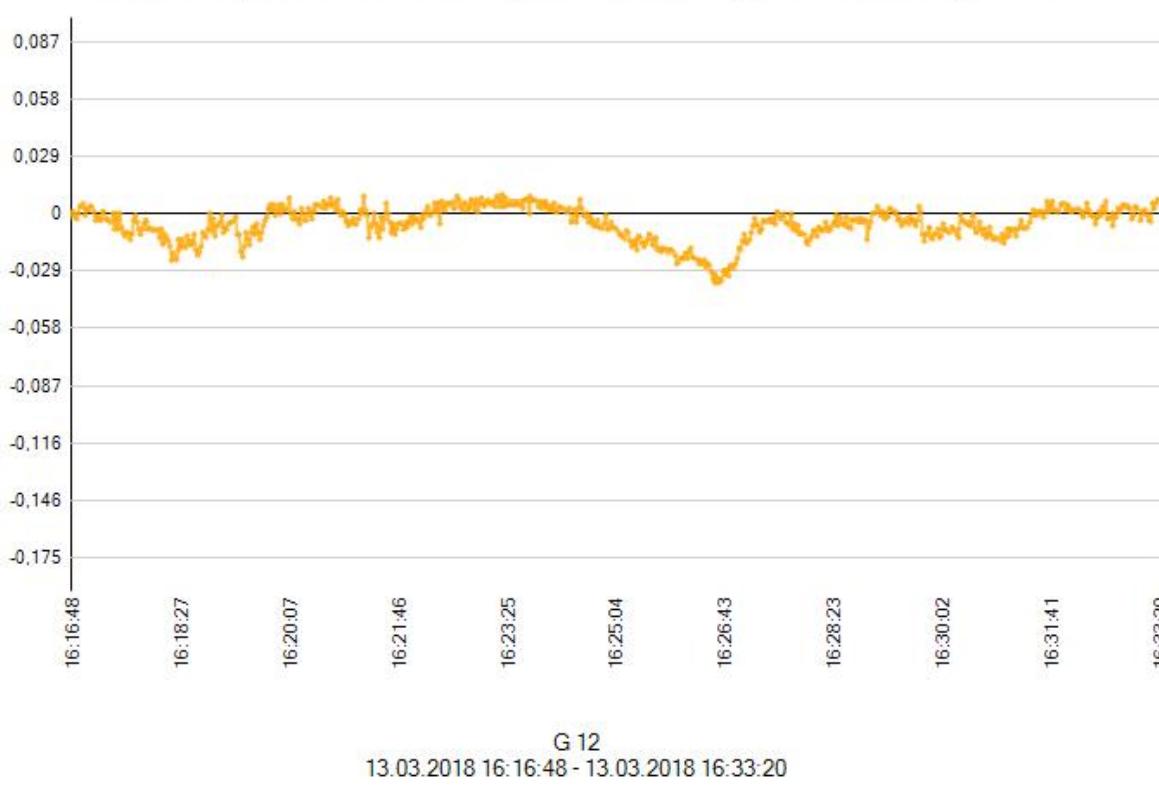
Residuals



Mean = 0,006 m Std. Dev. = 0,012 m Min. = -0,030 m Max. = 0,047 m



Mean = -0,005 m Std. Dev. = 0,008 m Min. = -0,035 m Max. = 0,010 m

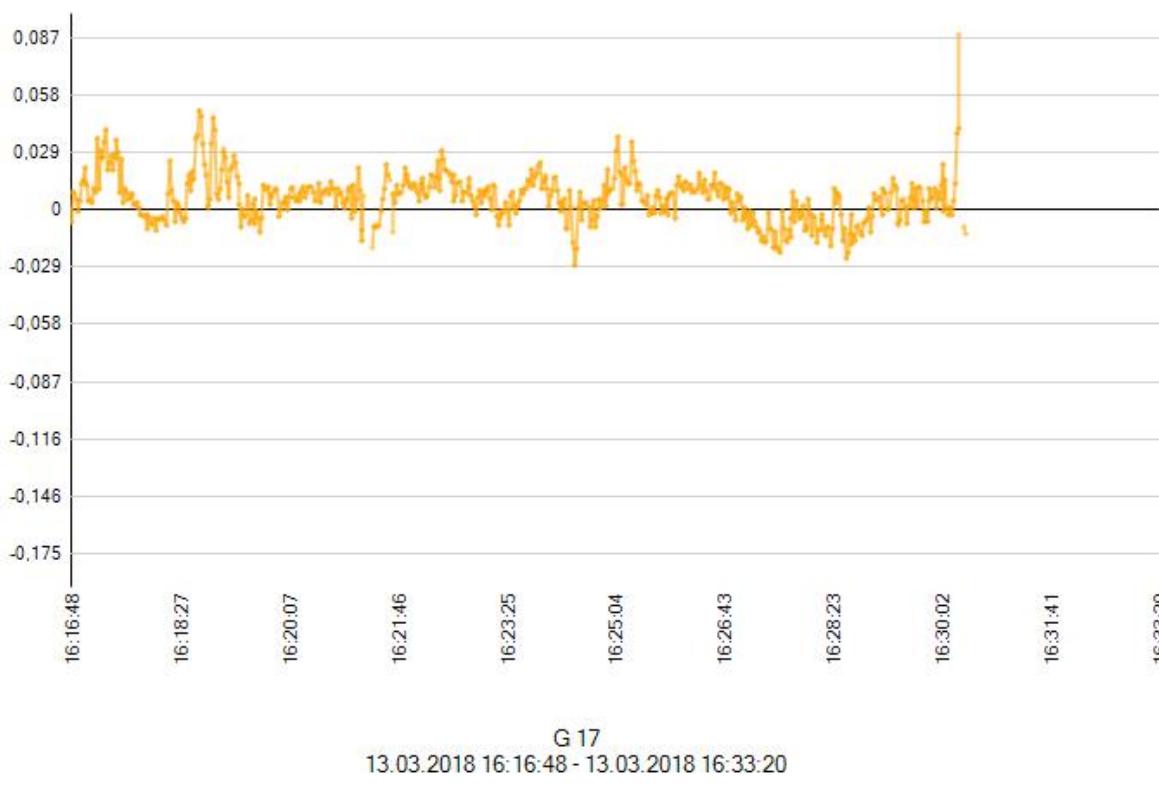


Mean = 0,011 m Std. Dev. = 0,017 m Min. = -0,054 m Max. = 0,065 m



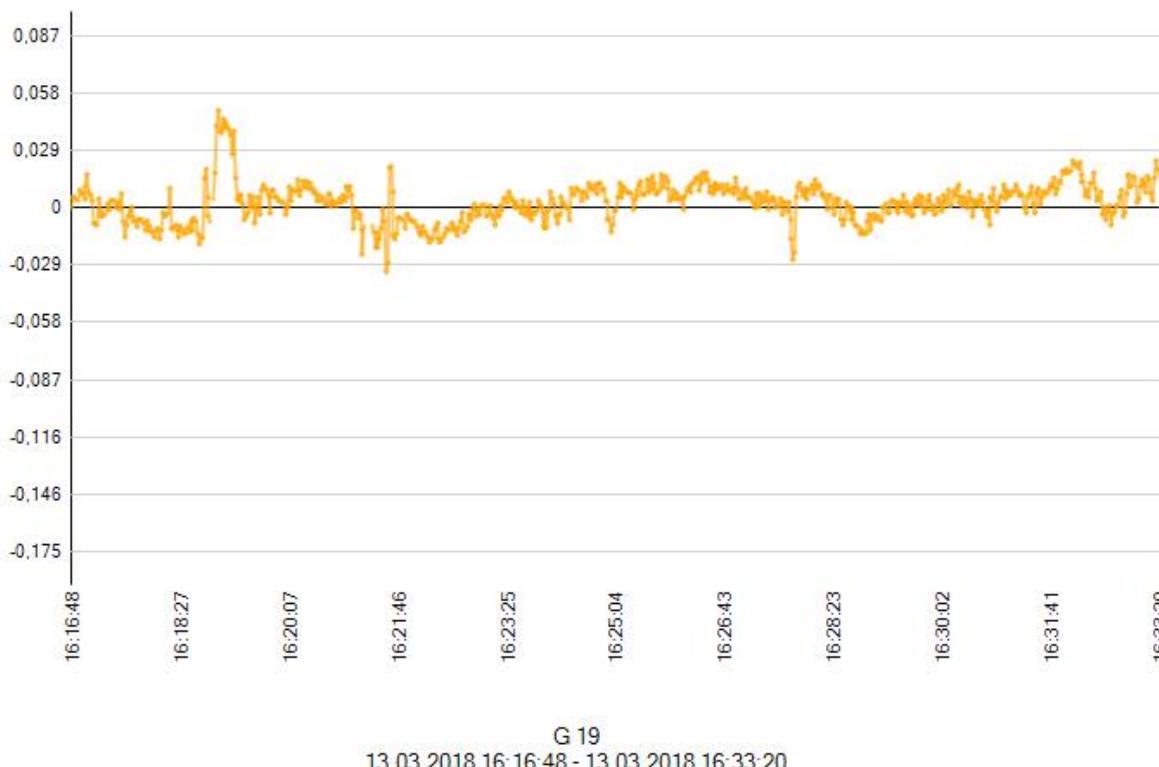
G 14
13.03.2018 16:16:48 - 13.03.2018 16:33:20

Mean = 0,006 m Std. Dev. = 0,011 m Min. = -0,028 m Max. = 0,089 m

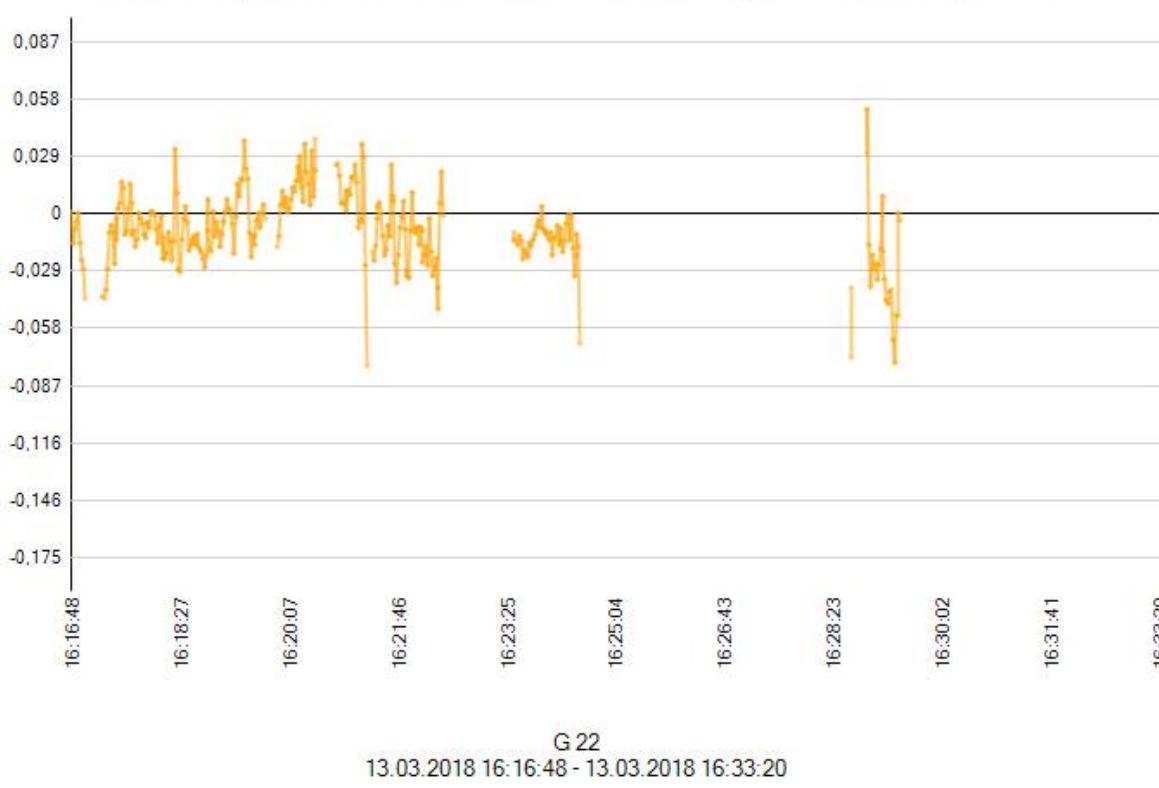


G 17
13.03.2018 16:16:48 - 13.03.2018 16:33:20

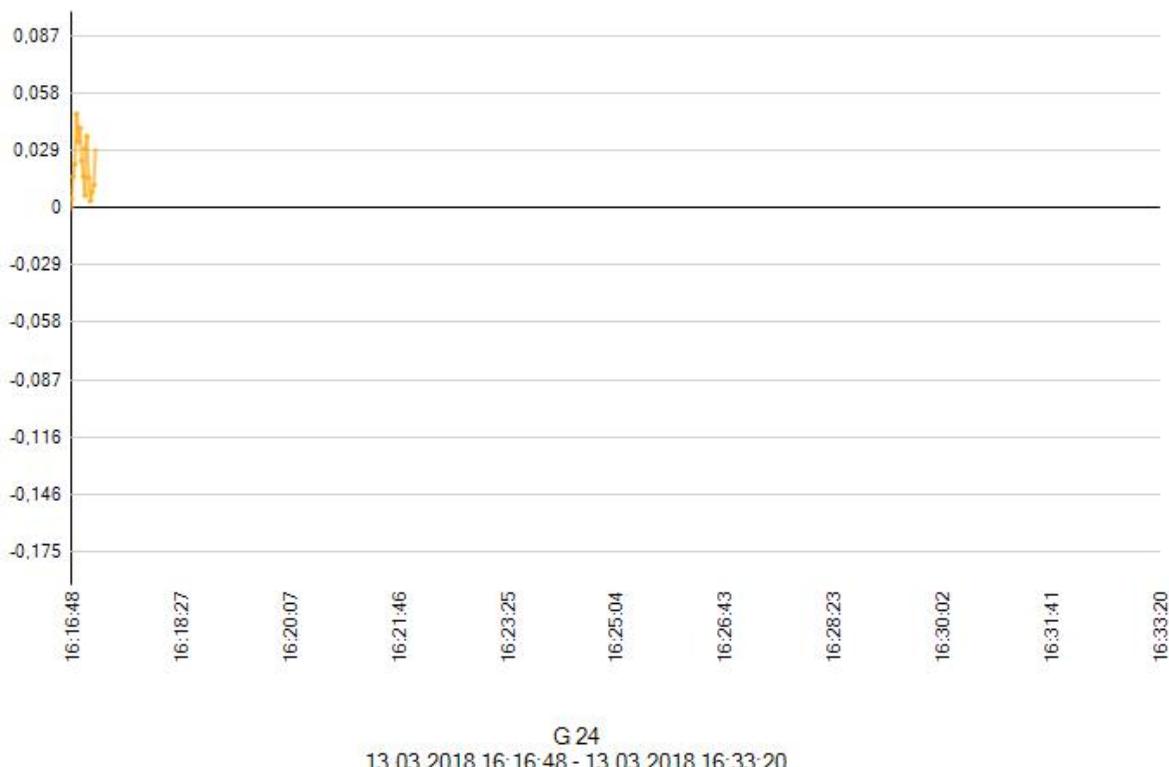
Mean = 0,003 m Std. Dev. = 0,009 m Min. = -0,032 m Max. = 0,049 m



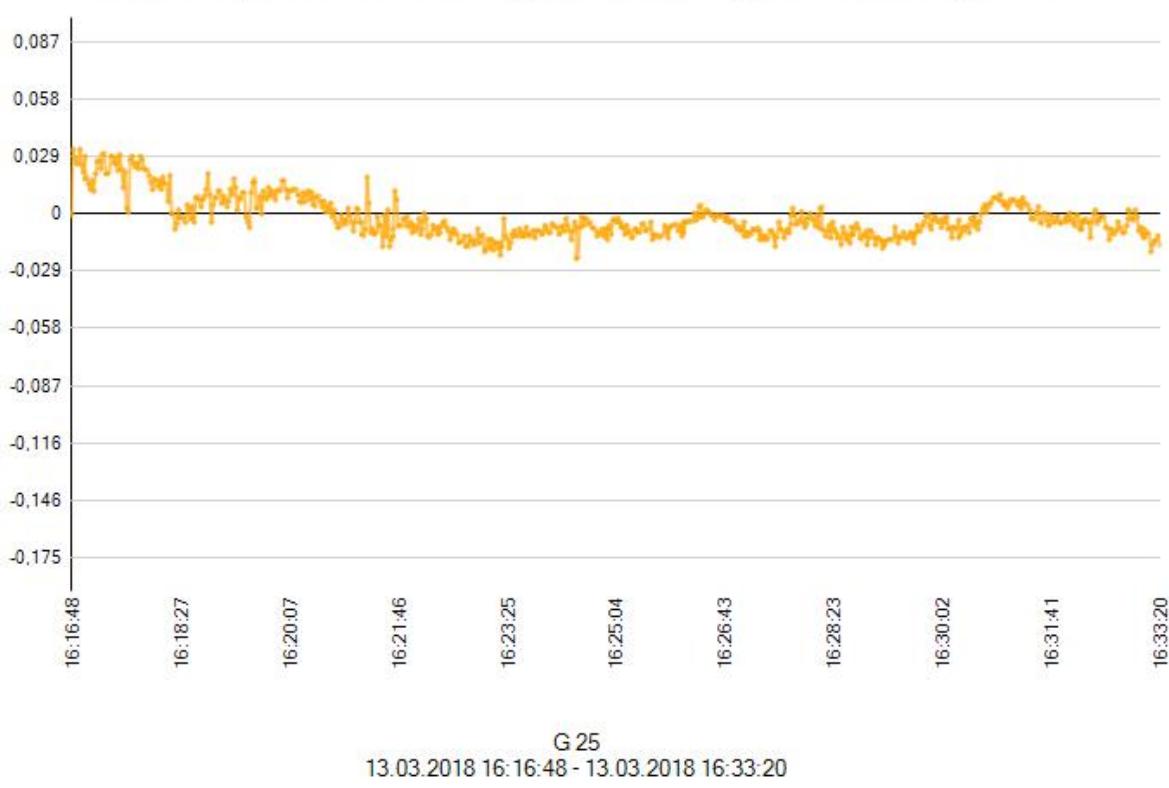
Mean = -0,007 m Std. Dev. = 0,018 m Min. = -0,077 m Max. = 0,053 m



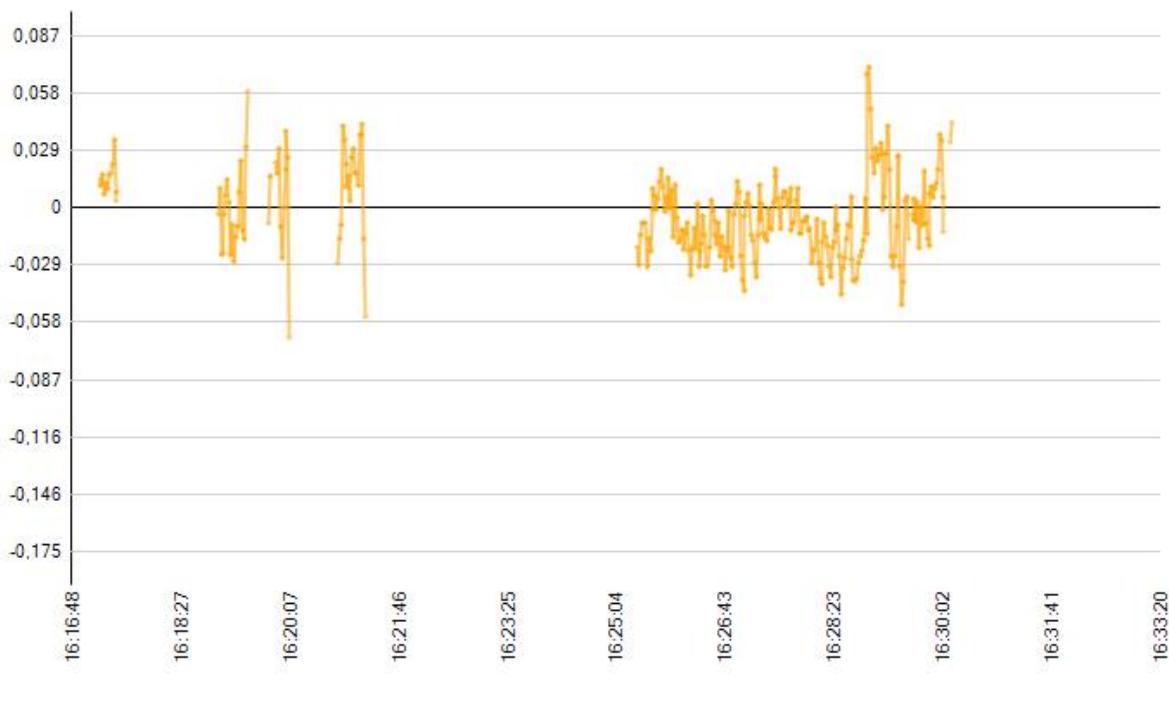
Mean = 0,019 m Std. Dev. = 0,014 m Min. = -0,003 m Max. = 0,048 m



Mean = -0,002 m Std. Dev. = 0,010 m Min. = -0,023 m Max. = 0,033 m

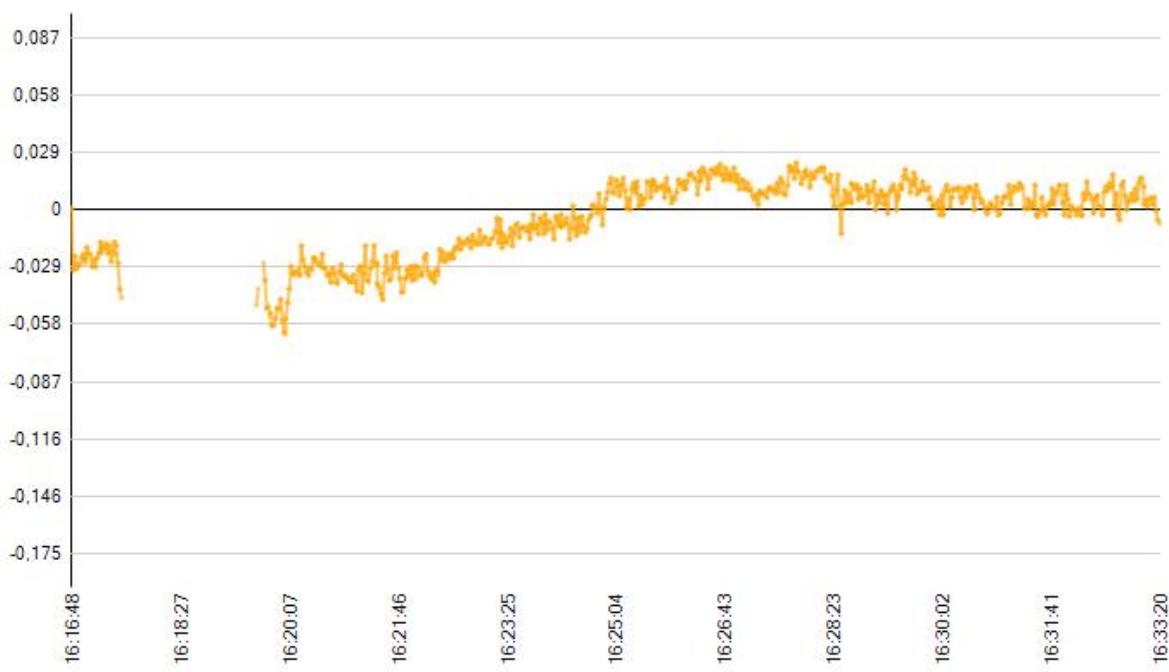


Mean = -0,002 m Std. Dev. = 0,020 m Min. = -0,066 m Max. = 0,098 m



G 31
13.03.2018 16:16:48 - 13.03.2018 16:33:20

Mean = -0,004 m Std. Dev. = 0,018 m Min. = -0,063 m Max. = 0,024 m

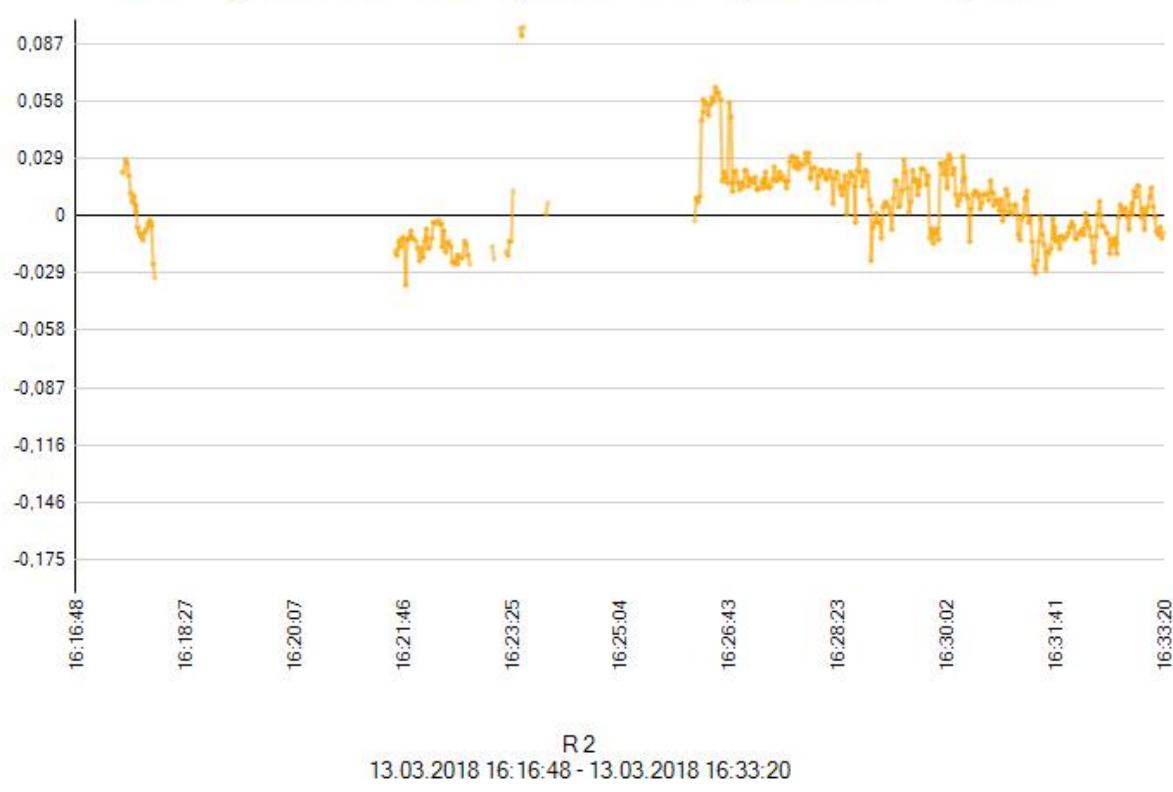


G 32
13.03.2018 16:16:48 - 13.03.2018 16:33:20

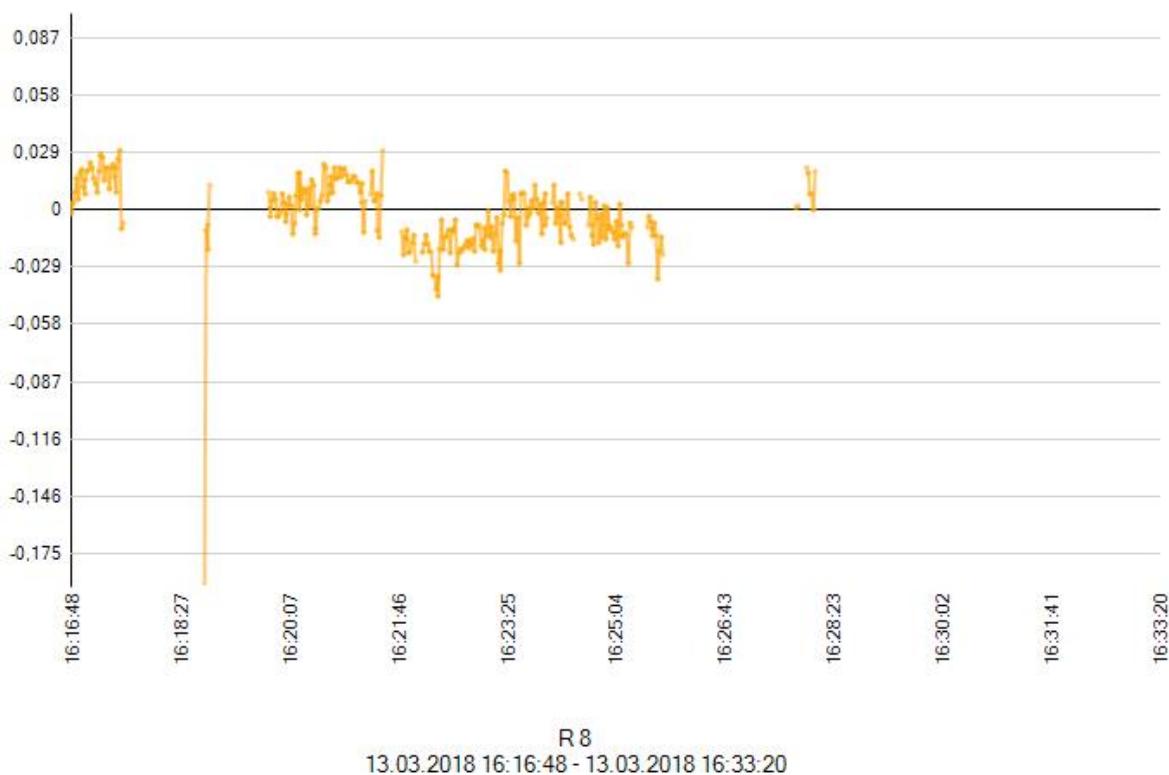
Mean = 0,005 m Std. Dev. = 0,012 m Min. = -0,046 m Max. = 0,063 m



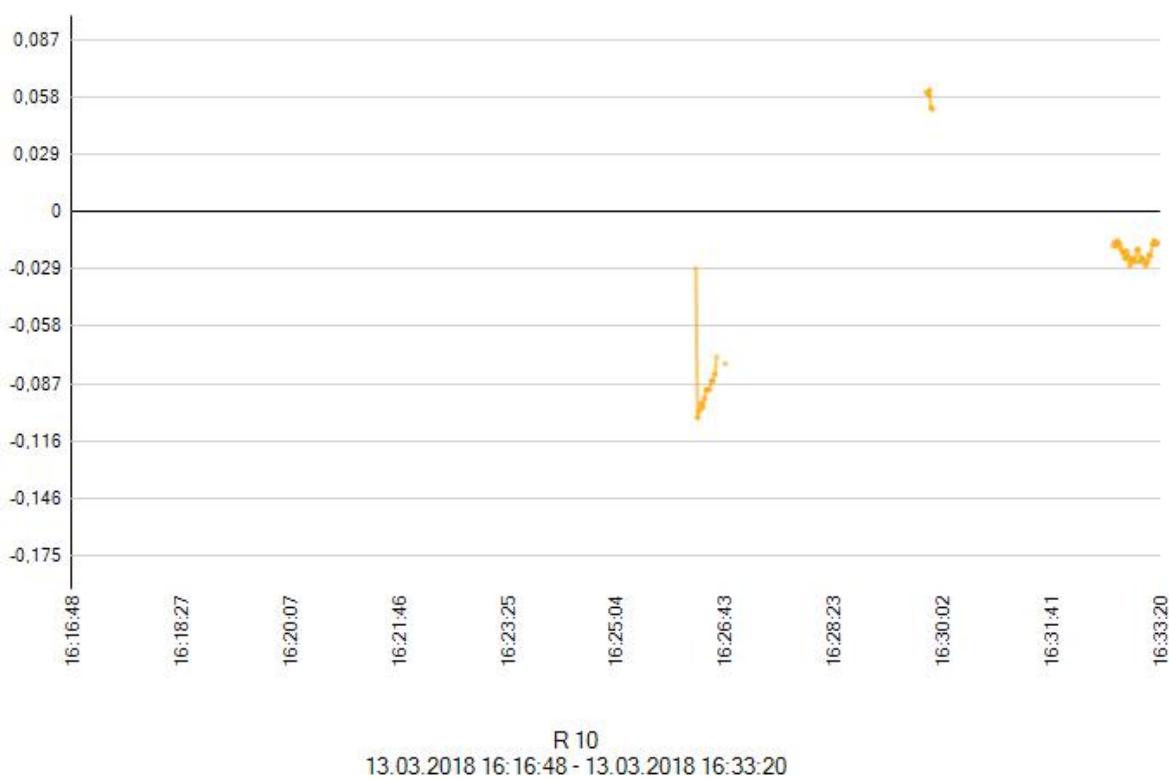
Mean = 0,006 m Std. Dev. = 0,019 m Min. = -0,035 m Max. = 0,096 m



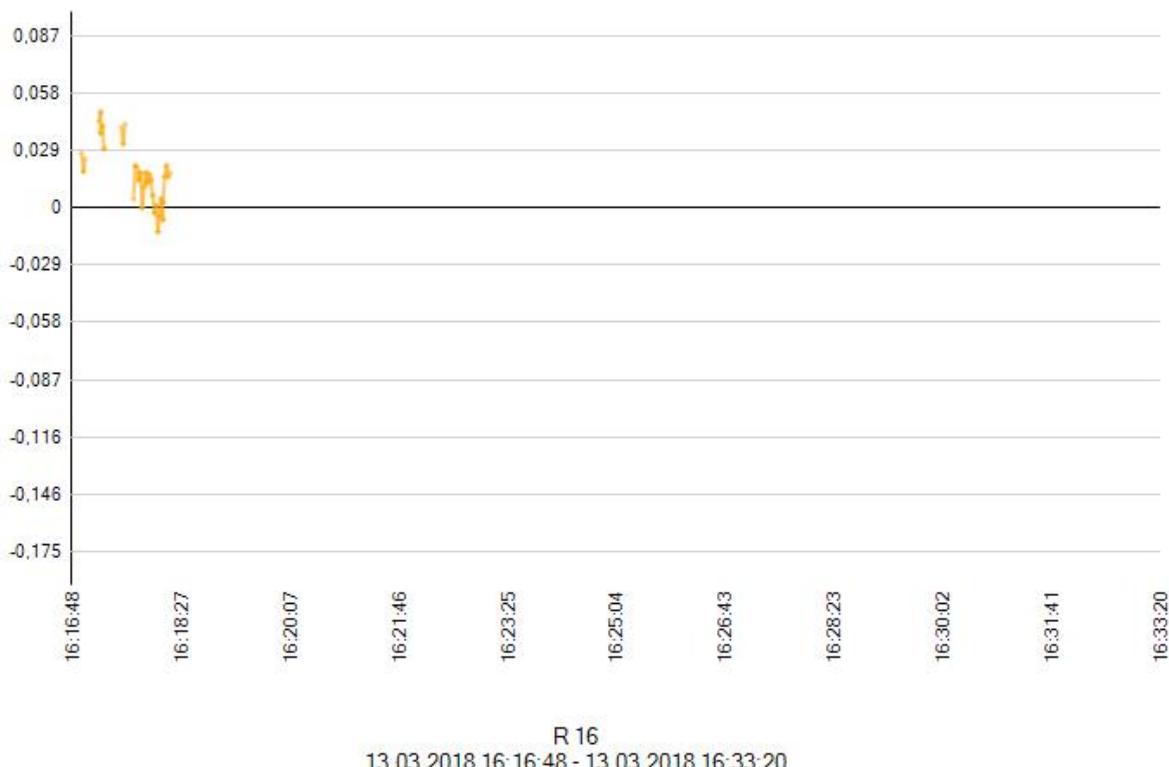
Mean = -0,001 m Std. Dev. = 0,017 m Min. = -0,191 m Max. = 0,030 m



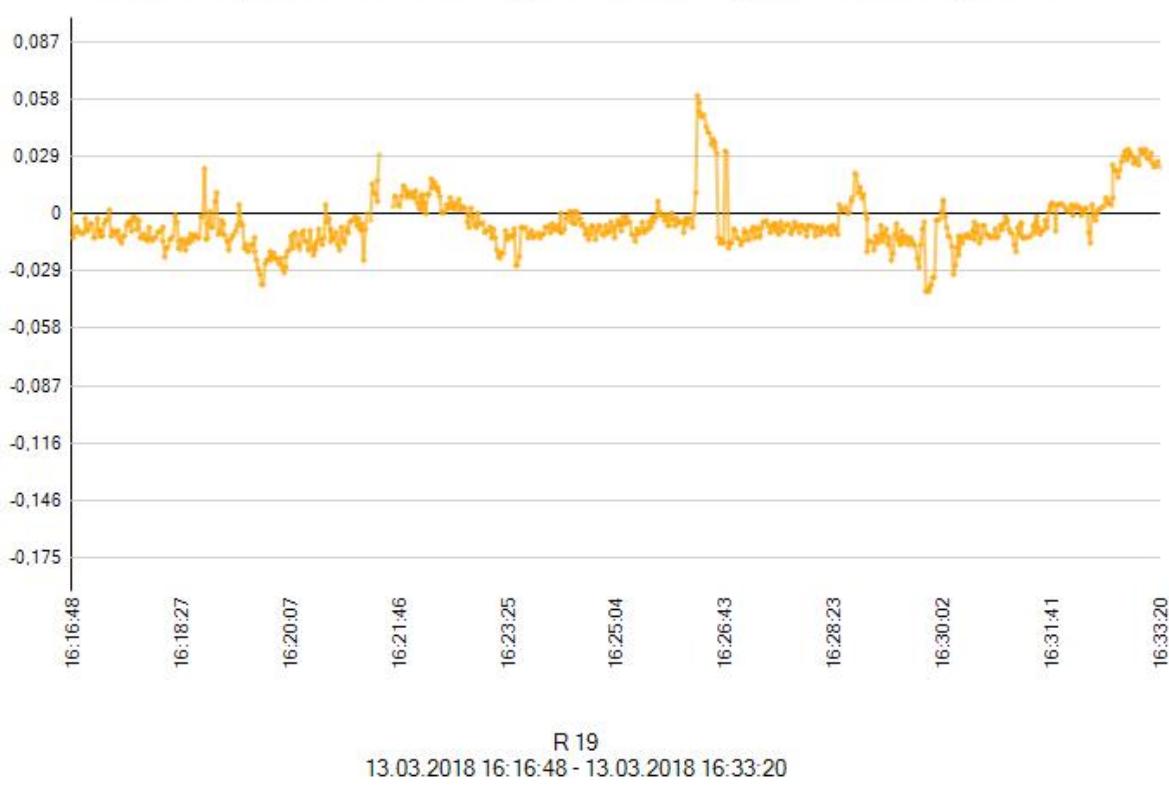
Mean = -0,030 m Std. Dev. = 0,046 m Min. = -0,104 m Max. = 0,062 m



Mean = 0,016 m Std. Dev. = 0,015 m Min. = -0,012 m Max. = 0,048 m



Mean = -0,004 m Std. Dev. = 0,013 m Min. = -0,040 m Max. = 0,060 m



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: Multiple Frequencies
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

LYRS - T2-2 (15:40:46-15:55:46) (S1)

Baseline observation:

 LYRS --- T2-2 (B1)

Processed:

23.03.2018 15:14:54

Solution type:

Fixed

Frequency used:

Dual Frequency (L1, L2)

Horizontal precision:

0,114 m

Vertical precision:

0,143 m

RMS:

0,001 m

Maximum PDOP:

2,056

Ephemeris used:

Broadcast

Antenna model:

Trimble Calibration

Processing start time:

13.03.2018 15:40:46 (Local: UTC+1hr)

Processing stop time:

13.03.2018 15:55:46 (Local: UTC+1hr)

Processing duration:

12:15:00 AM

Processing interval:

1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T2-2				
Grid		Local		Global	
Easting	527951,227 m	Latitude	N78°15'24,44094"	Latitude	N78°15'24,44094"
Northing	8687321,483 m	Longitude	E16°13'49,13828"	Longitude	E16°13'49,13828"
Elevation	396,246 m	Height	396,246 m	Height	396,246 m

Vector					
9Ughjb[18903,088 m	NS Fwd Azimuth	80°14'23"	L	-8126,531 m
Bcfh]b[3383,915 m	Ellipsoid Dist.	19211,181 m	M	17401,139 m
9Yj Uhcb	-99,435 m	<Y]\lh	-99,435 m	N	538,858 m

Standard Errors

Vector errors:

9Ughb[0,039 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,027 m
Bcfh]b[0,027 m	'9``]dgc]X 8]gh	0,033 m	M	0,047 m
9`Yj Uhcb	0,073 m	<Y][\h	0,073 m	N	0,068 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0007426078		
Y	0,0012554681	0,0022337101	
Z	0,0015845915	0,0027137818	0,0045699733

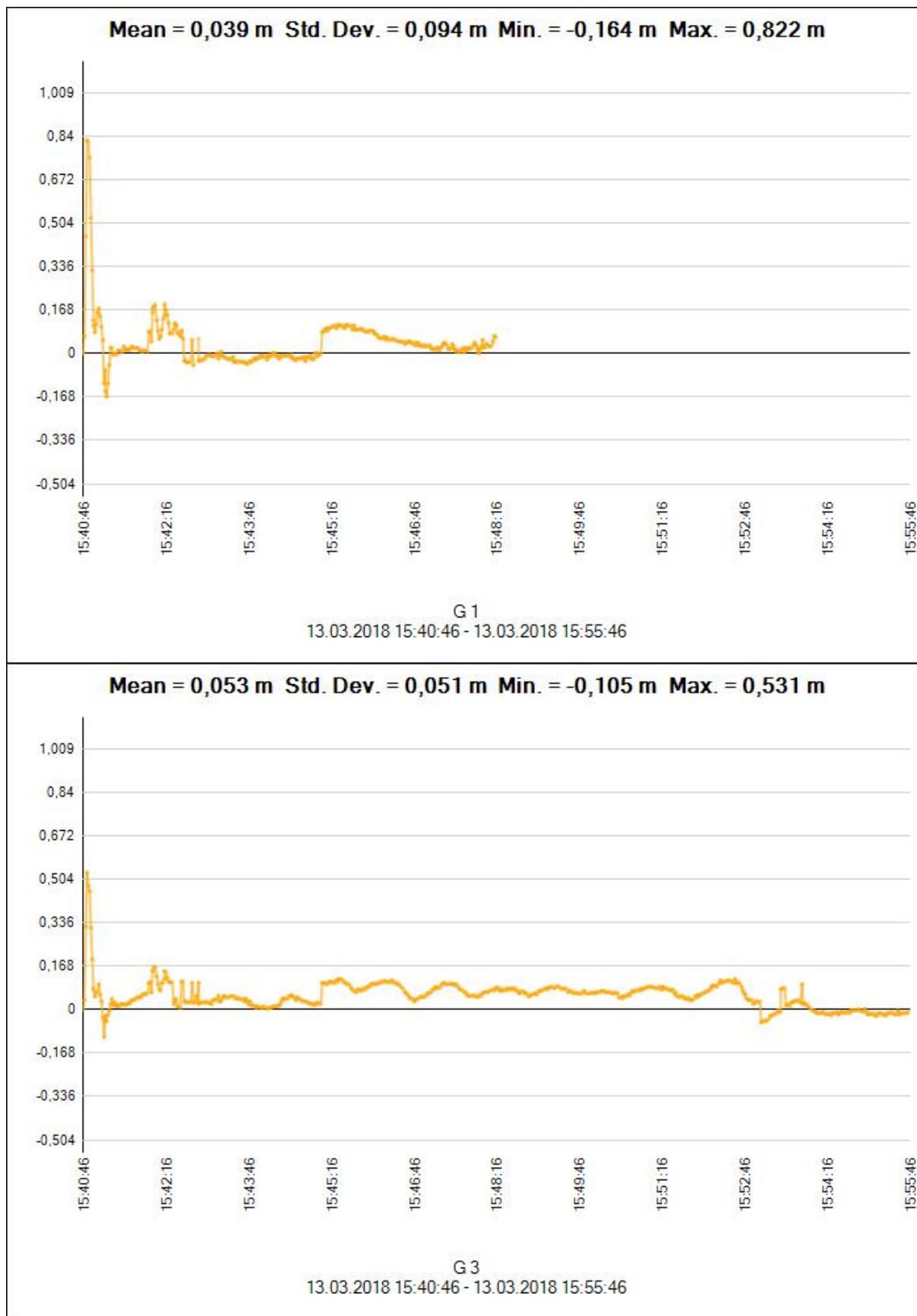
Occupations

	From	To
Point ID:	LYRS	T2-2
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0720.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250727.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	1,400 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

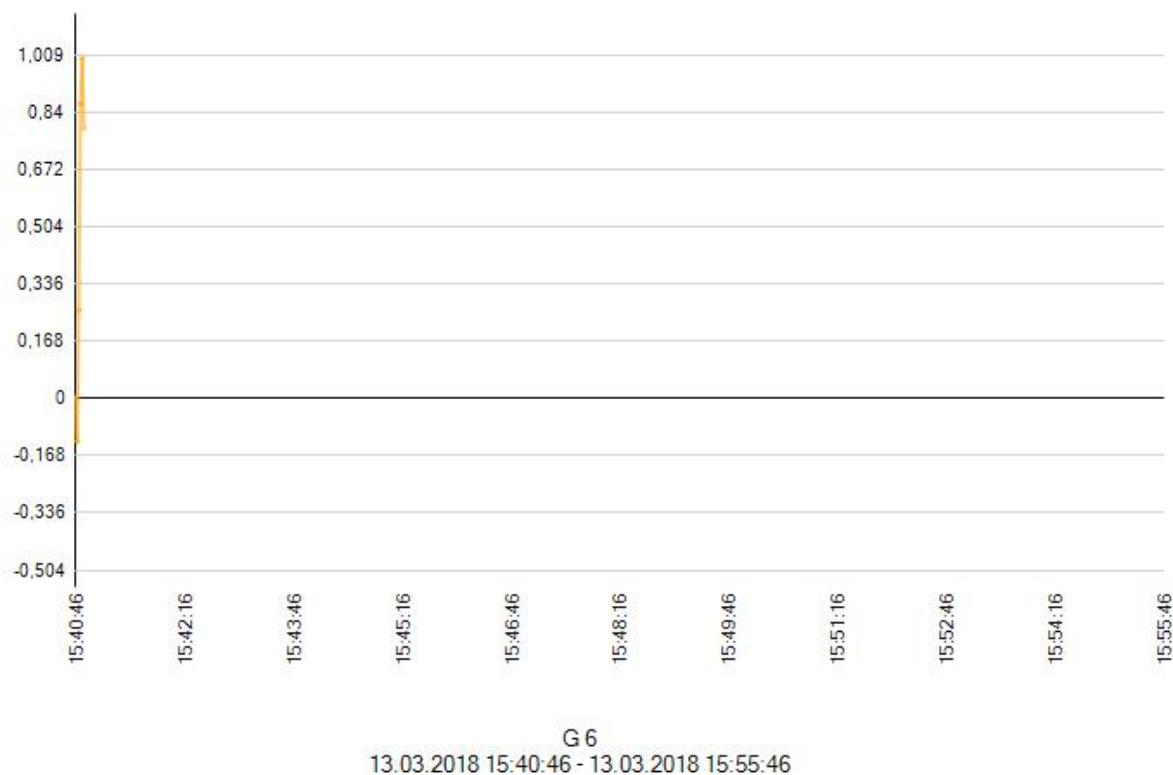
Tracking Summary

SV	13.03.2018 15:40:46	Duration: 00:15:00	Major interval: 00:01:00	13.03.2018 15:55:46
G 1	L1 L2			
G 3	L1 L2			
G 6	L1 L2			
G 12	L1 L2			
G 14	L1 L2			
G 17	L1 L2			
G 19	L1 L2			
G 22	L1 L2			
G 24	L1 L2			
G 25	L1 L2			
G 32	L1 L2			
R 1	L1 L2			
R 8	L1 L2			
R 9	L1 L2			
R 10	L1 L2			
R 16	L1 L2			
R 17	L1 L2			
R 18	L1 L2			
R 19	L1 L2			

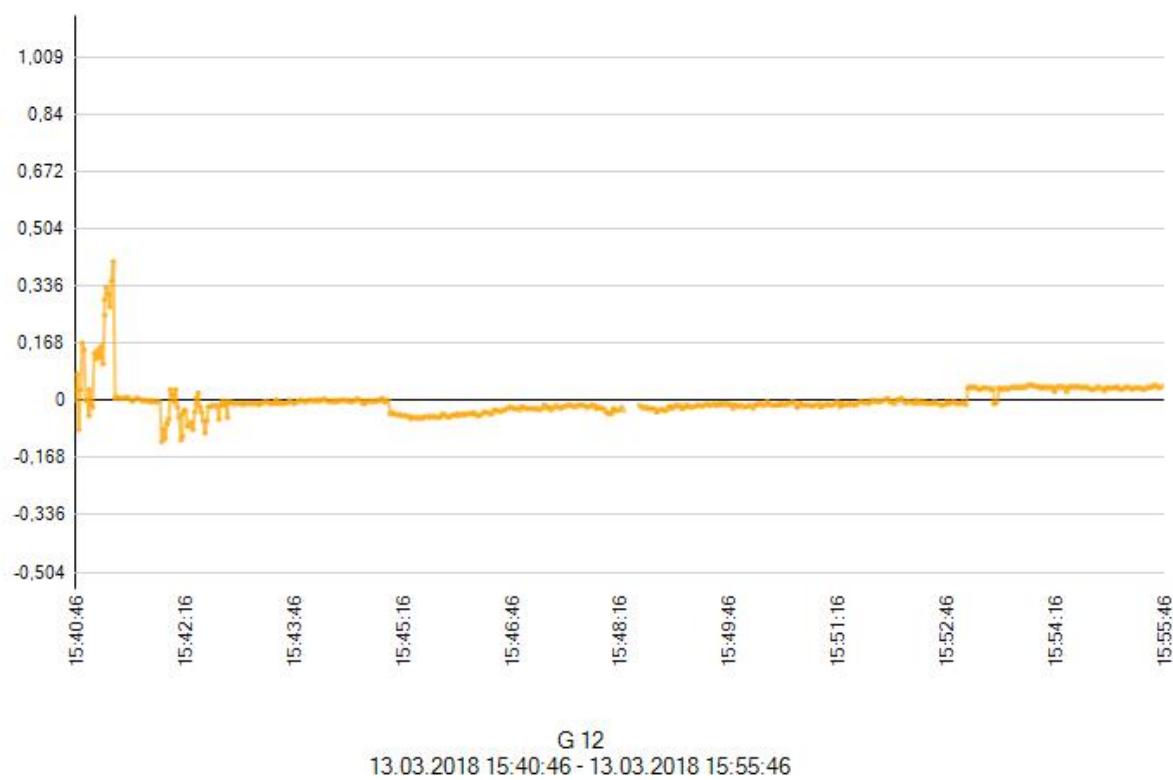
Residuals



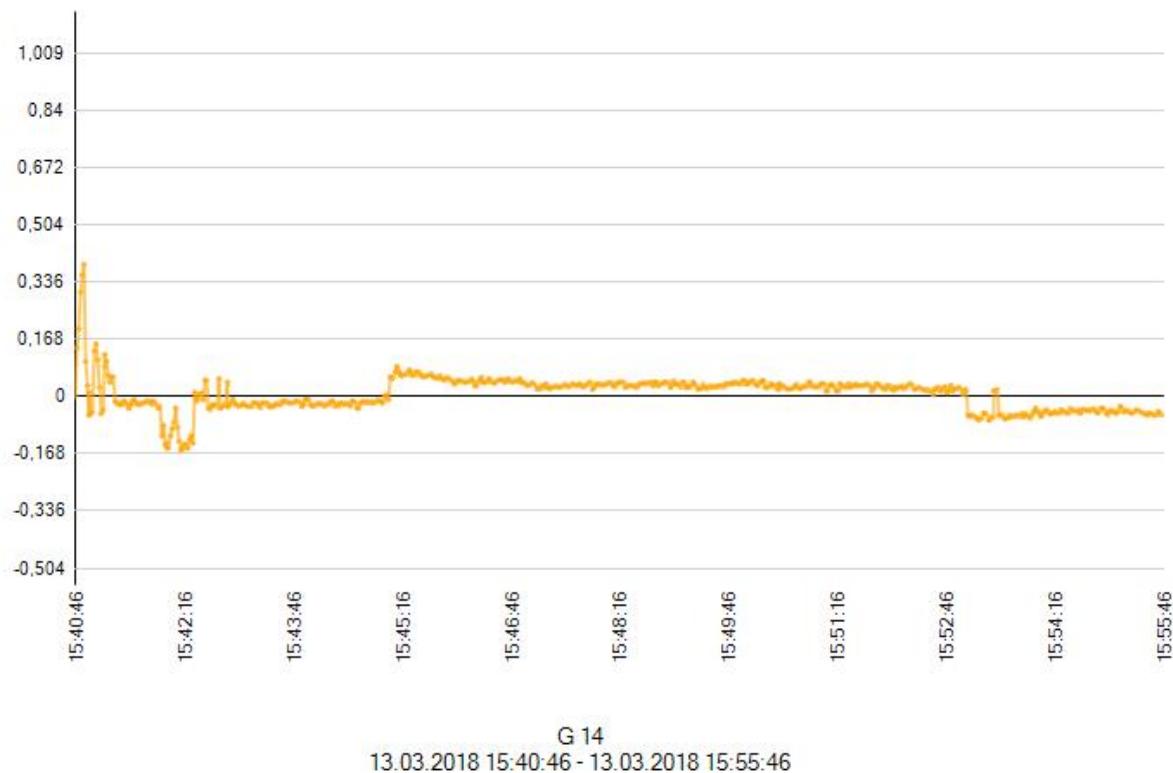
Mean = 0,363 m Std. Dev. = 0,420 m Min. = -0,124 m Max. = 0,996 m



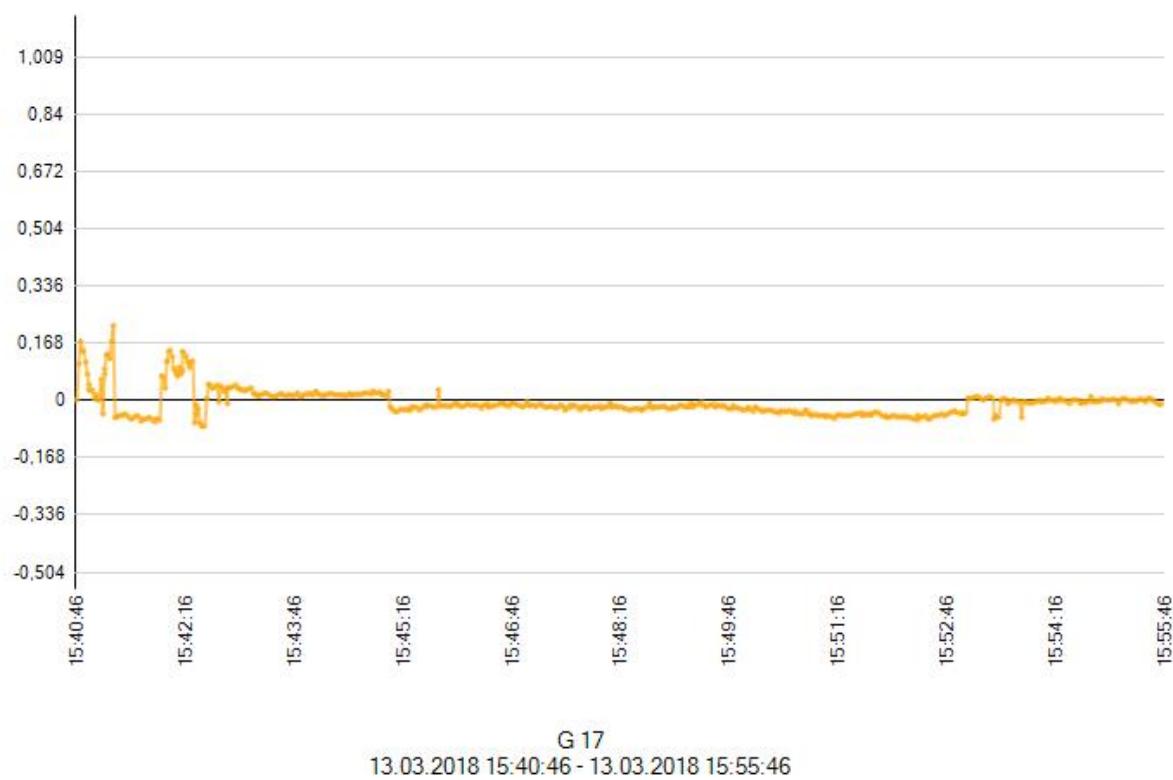
Mean = -0,002 m Std. Dev. = 0,044 m Min. = -0,119 m Max. = 0,408 m



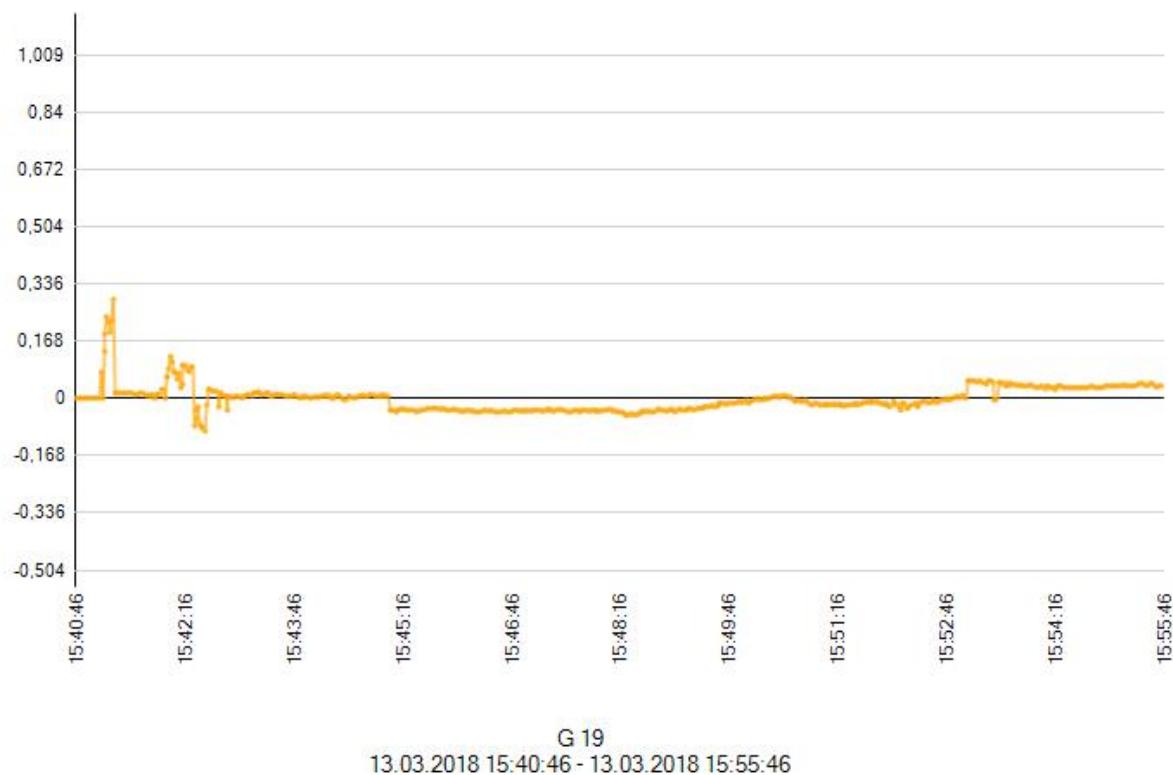
Mean = 0,006 m Std. Dev. = 0,049 m Min. = -0,157 m Max. = 0,386 m



Mean = -0,008 m Std. Dev. = 0,037 m Min. = -0,076 m Max. = 0,220 m



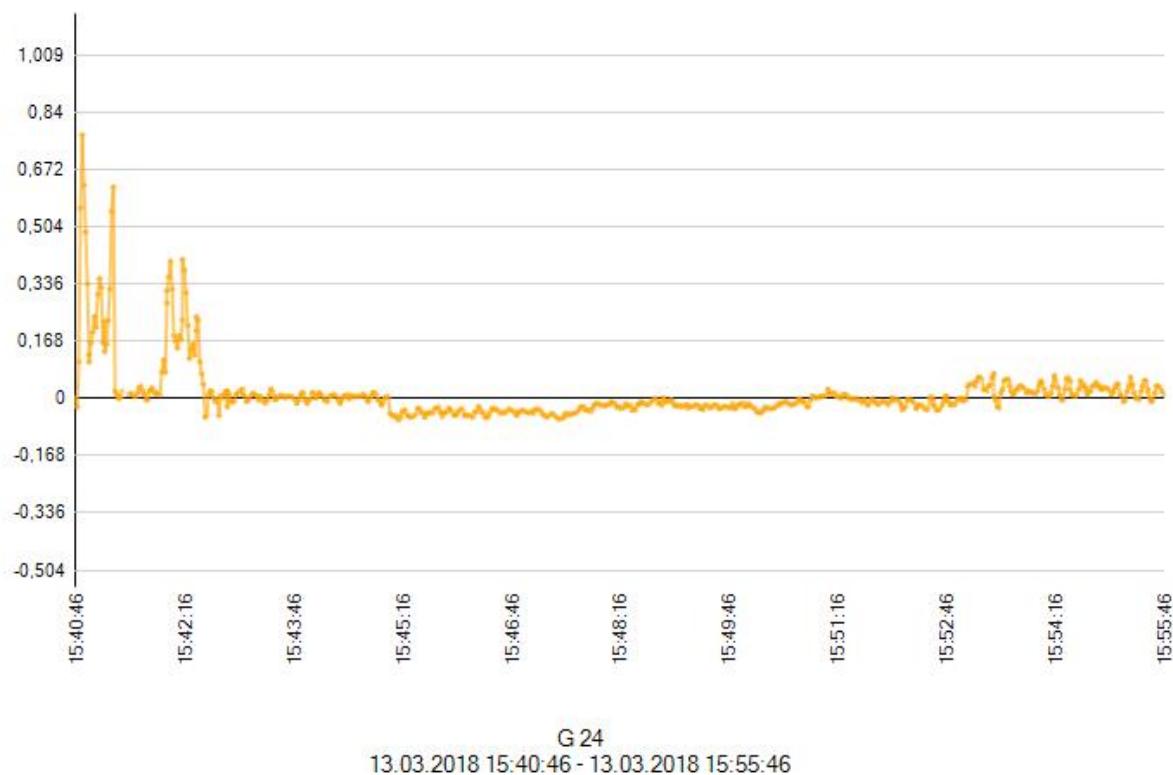
Mean = -0,001 m Std. Dev. = 0,037 m Min. = -0,097 m Max. = 0,289 m



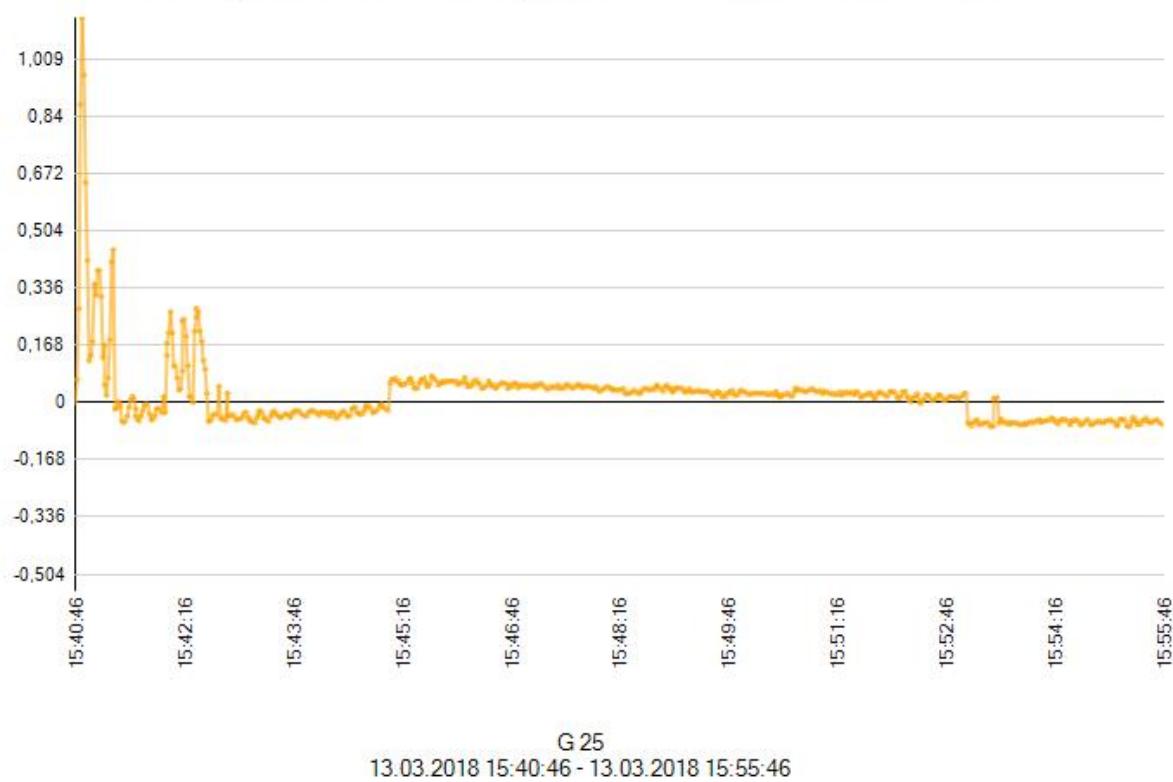
Mean = 0,000 m Std. Dev. = 0,052 m Min. = -0,099 m Max. = 0,445 m



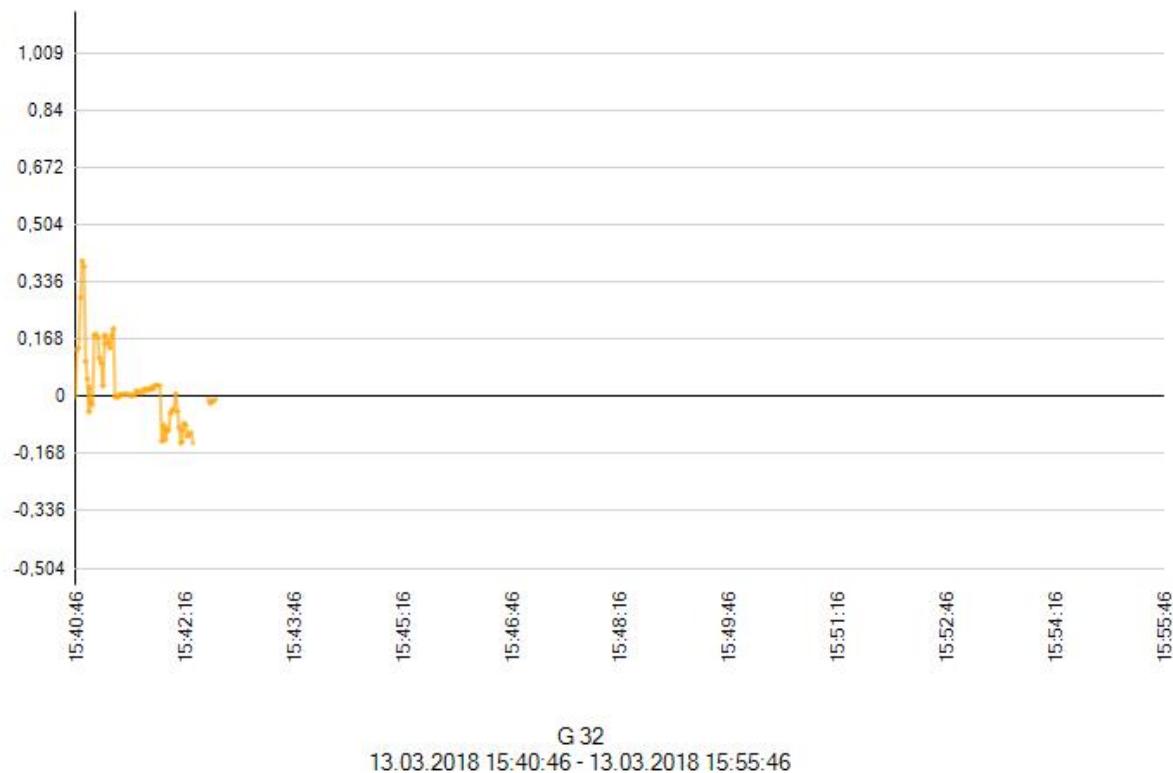
Mean = 0,012 m Std. Dev. = 0,084 m Min. = -0,065 m Max. = 0,774 m



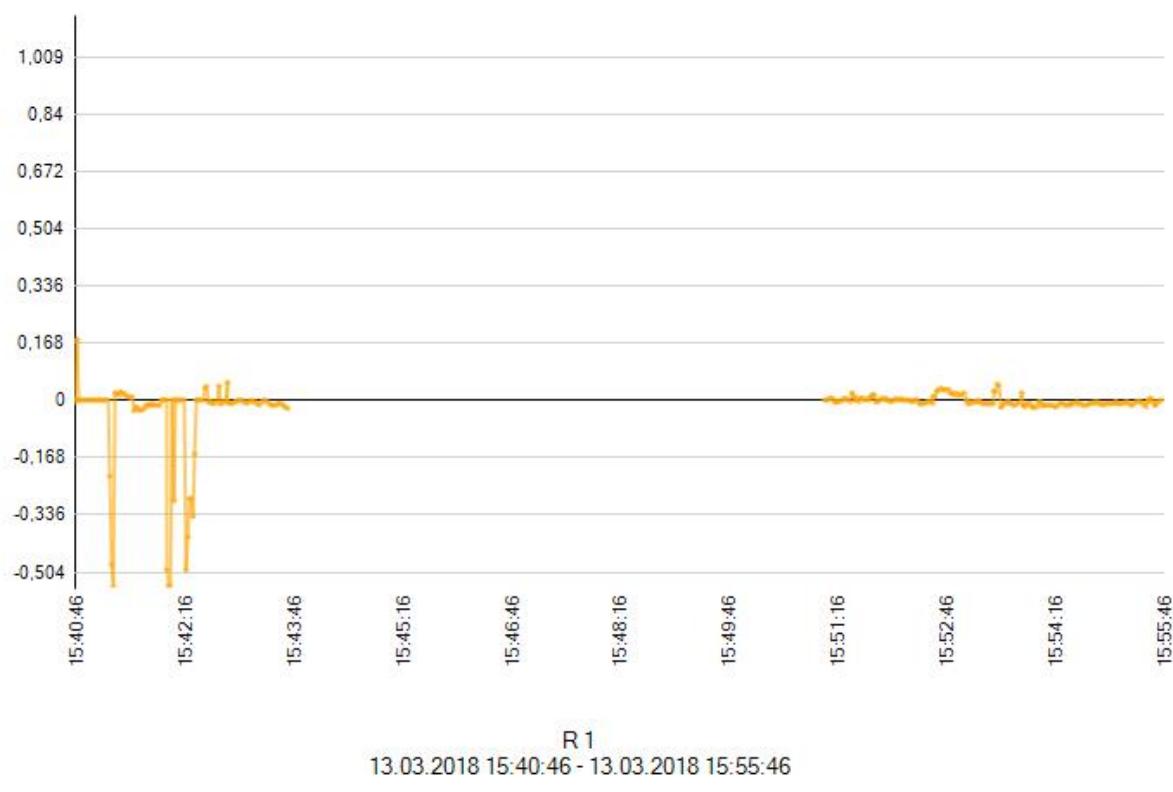
Mean = 0,019 m Std. Dev. = 0,094 m Min. = -0,072 m Max. = 1,131 m



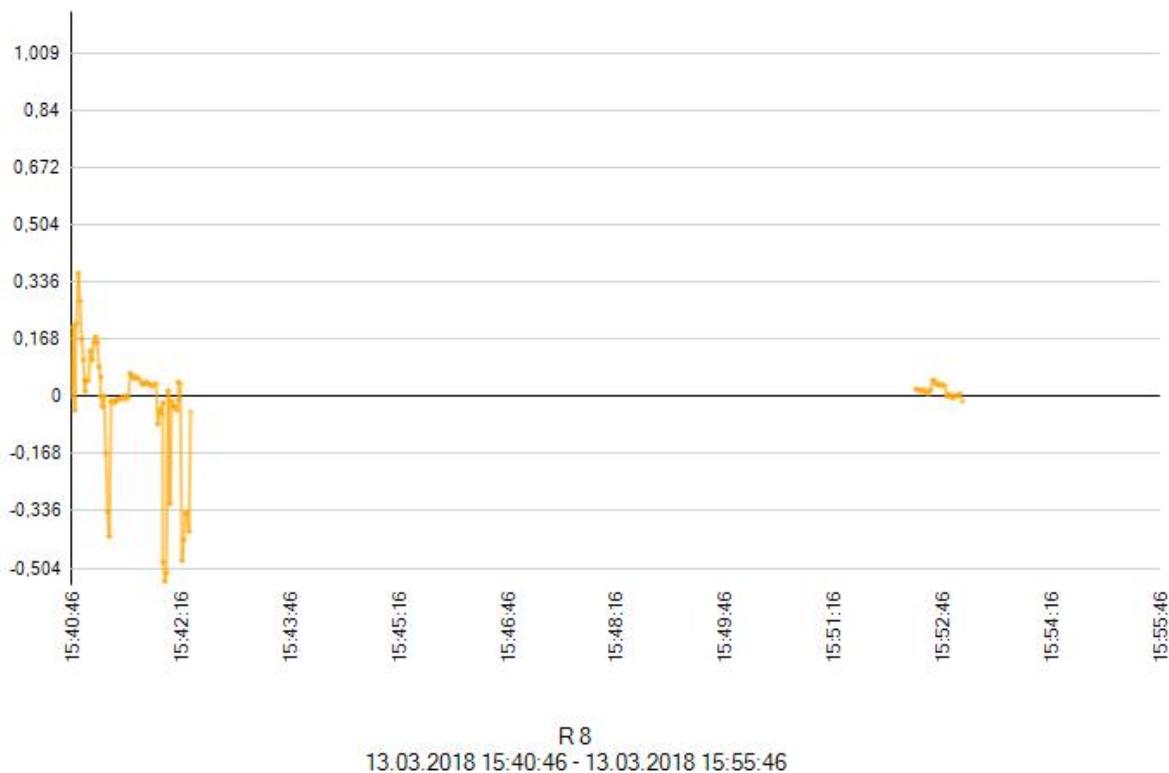
Mean = 0,021 m Std. Dev. = 0,099 m Min. = -0,136 m Max. = 0,396 m



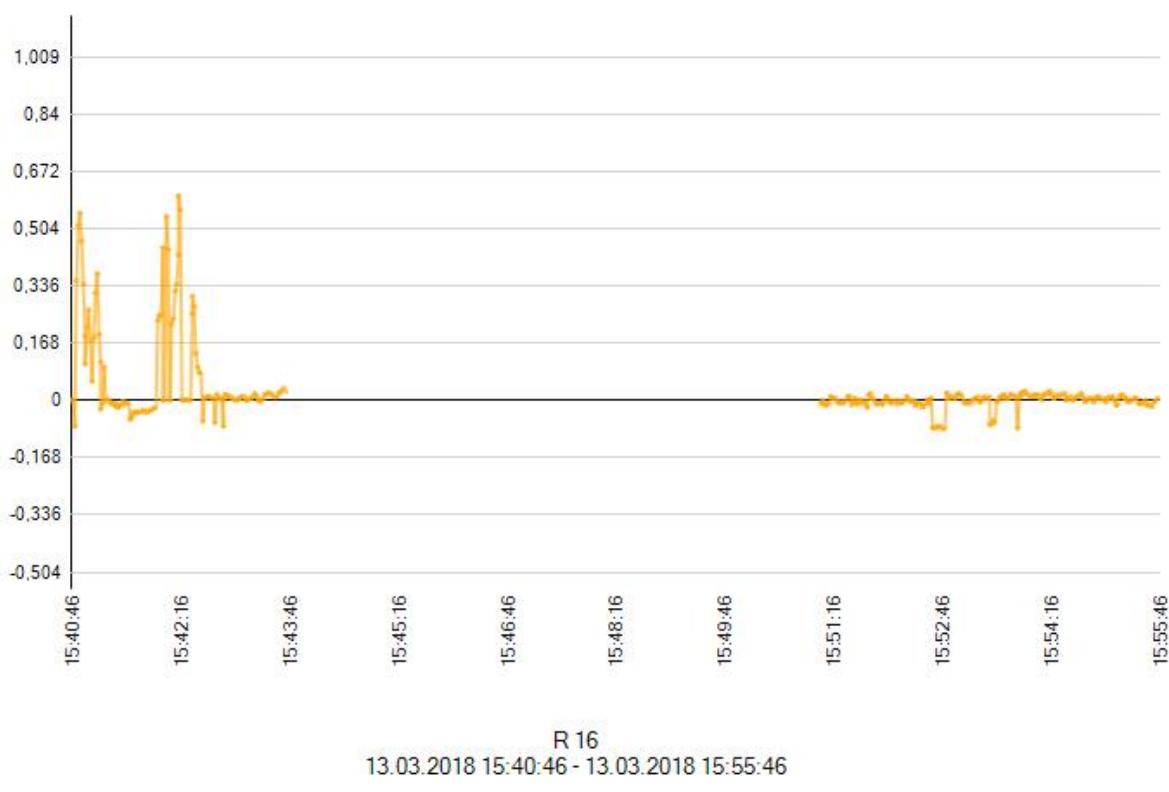
Mean = -0,015 m Std. Dev. = 0,074 m Min. = -0,550 m Max. = 0,177 m

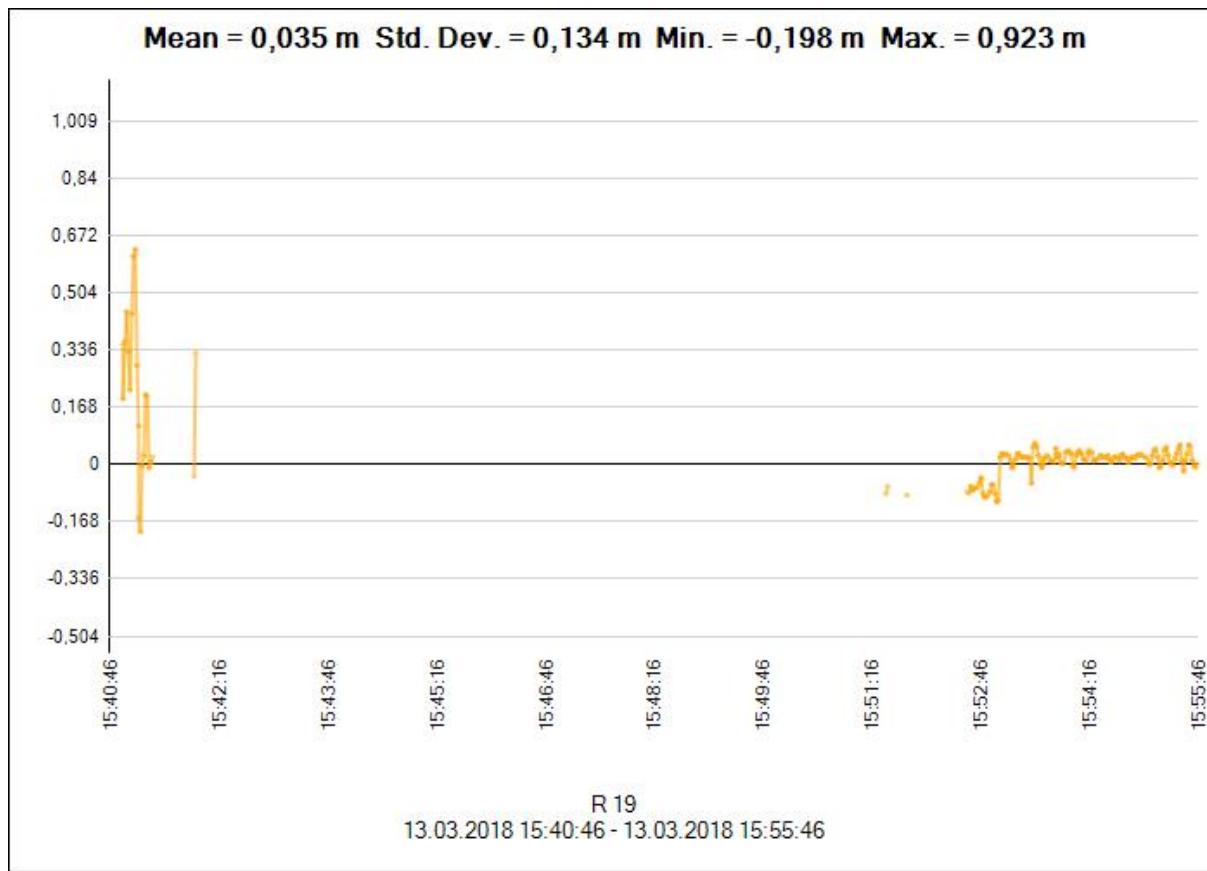


Mean = -0,009 m Std. Dev. = 0,143 m Min. = -0,541 m Max. = 0,361 m



Mean = 0,026 m Std. Dev. = 0,099 m Min. = -0,086 m Max. = 0,603 m





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: Multiple Frequencies
 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

LYRS - T1-2 (13:55:59-14:11:03) (S4)

Baseline observation: LYRS --- T1-2 (B4)
 Processed: 23.03.2018 15:15:03
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,010 m
 Vertical precision: 0,026 m
 RMS: 0,001 m
 Maximum PDOP: 1,617
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 13.03.2018 13:55:59 (Local: UTC+1hr)
 Processing stop time: 13.03.2018 14:11:03 (Local: UTC+1hr)
 Processing duration: 12:15:04 AM
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T1-2				
Grid		Local		Global	
Easting	528388,718 m	Latitude	N78°15'17,17272"	Latitude	N78°15'17,17272"
Northing	8687105,381 m	Longitude	E16°14'57,71064"	Longitude	E16°14'57,71064"
Elevation	342,098 m	Height	342,098 m	Height	342,098 m

Vector					
9Ughjb[19340,580 m	NS Fwd Azimuth	81°05'13"	L	-8046,310 m
Bcfh]b[3167,812 m	Ellipsoid Dist.	19606,043 m	M	17875,511 m
9Yj Uhcb	-153,584 m	<Y][\h	-153,584 m	N	439,960 m

Standard Errors

Vector errors:

9Ughb[0,004 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	0,004 m
9`Yj Uhcb	0,013 m	<Y][\h	0,013 m	N	0,013 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000126567		
Y	0,0000011984	0,0000143302	
Z	0,0000096787	0,0000123787	0,0001774898

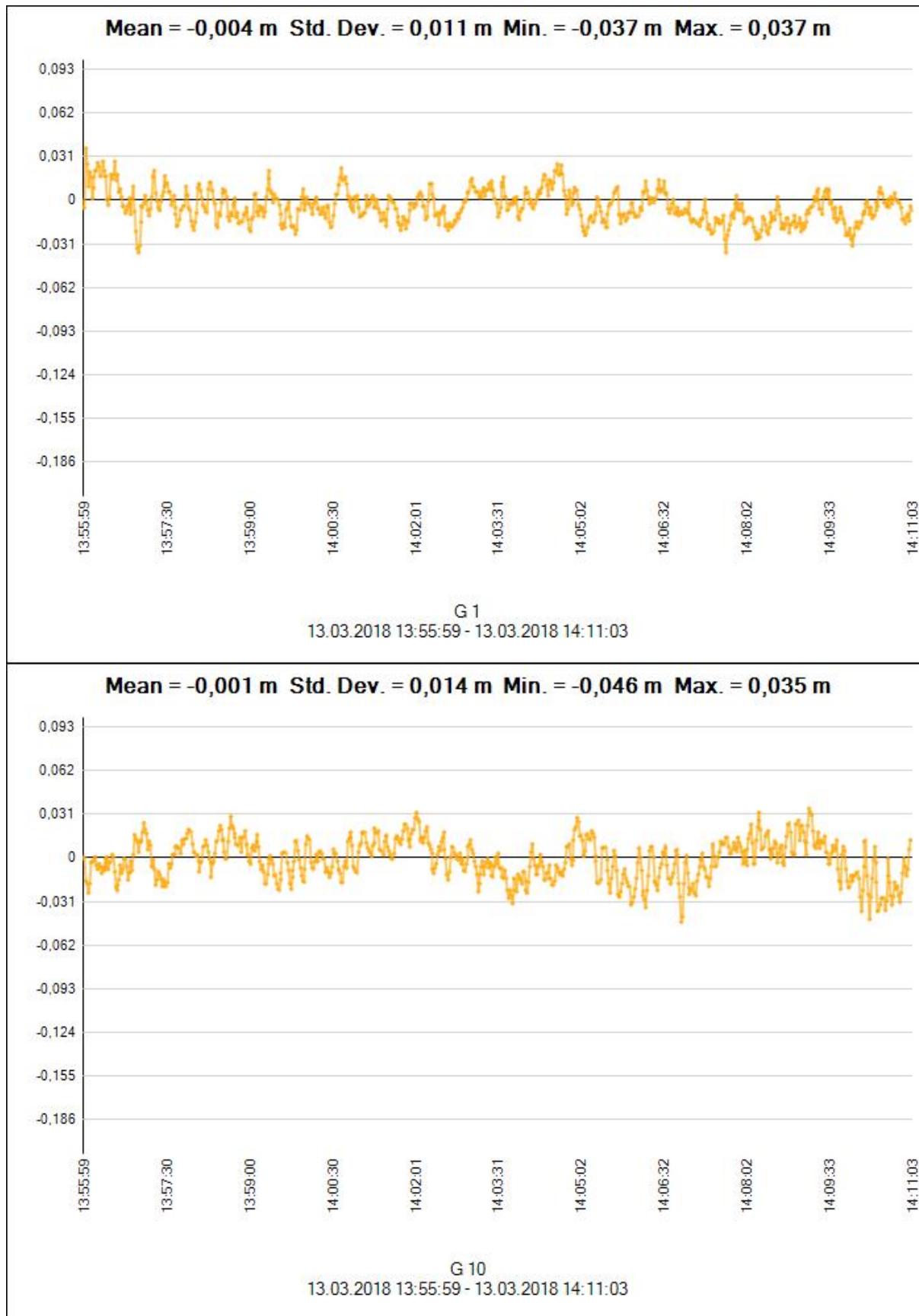
Occupations

	From	To
Point ID:	LYRS	T1-2
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0720.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250723.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	2,150 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

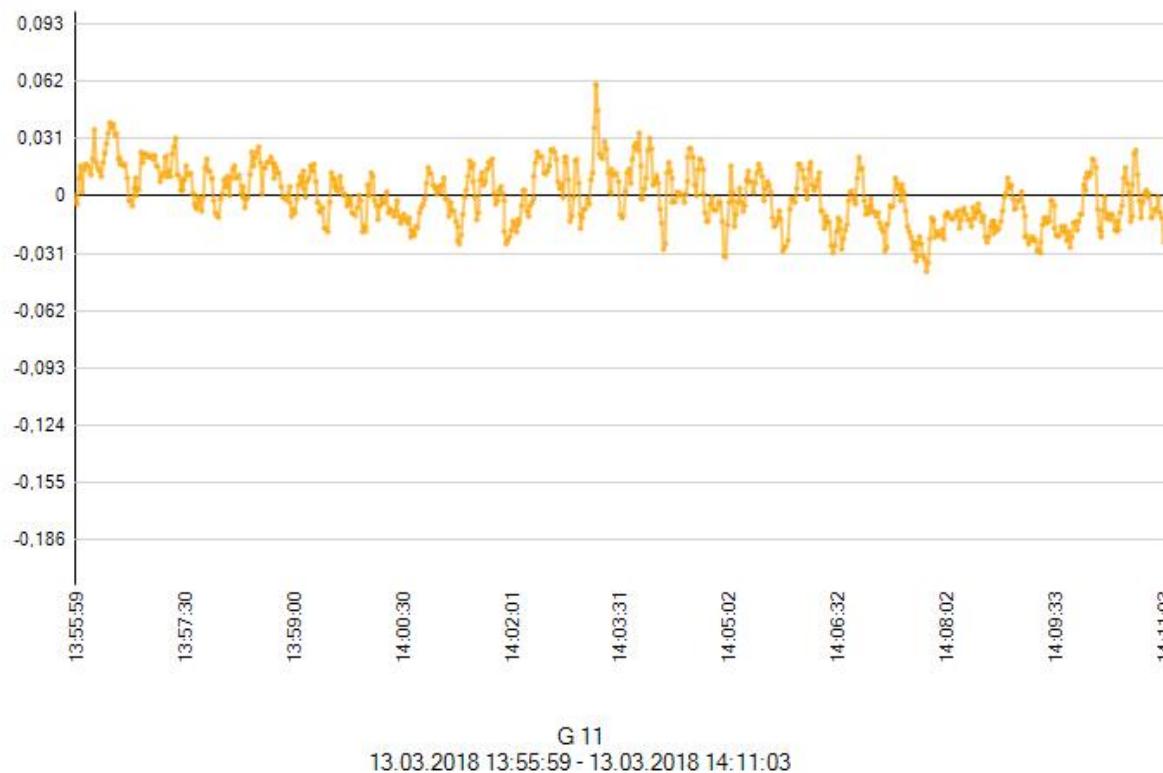
Tracking Summary

SV	13.03.2018 13:55:59	Duration: 00:15:04	Major interval: 00:01:00	13.03.2018 14:11:03
G 1	L1 L2			
G 10	L1 L2			
G 11	L1 L2			
G 15	L1 L2			
G 17	L1 L2			
G 19	L1 L2			
G 24	L1 L2			
G 28	L1 L2			
G 32	L1 L2			
R 7	L1 L2			
R 8	L1 L2			
R 9	L1 L2			
R 15	L1 L2			
R 16	L1 L2			
R 17	L1 L2			
R 18	L1 L2			
R 23	L1 L2			
R 24	L1 L2			

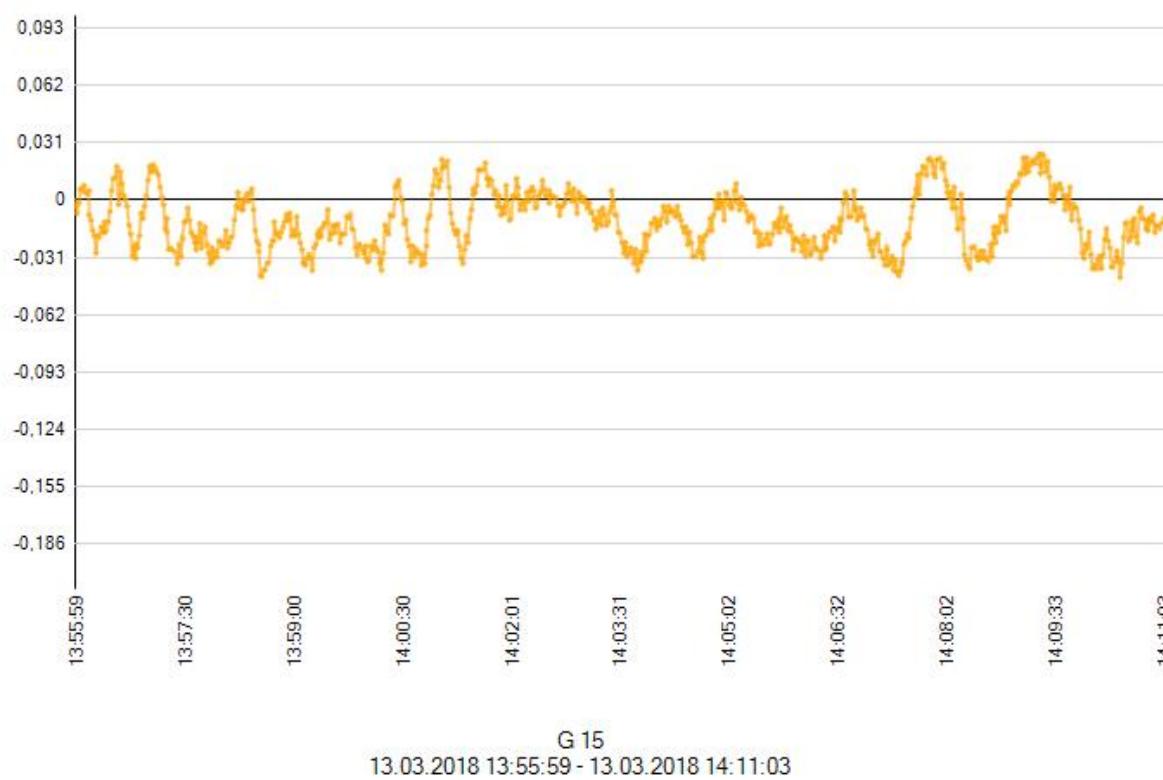
Residuals



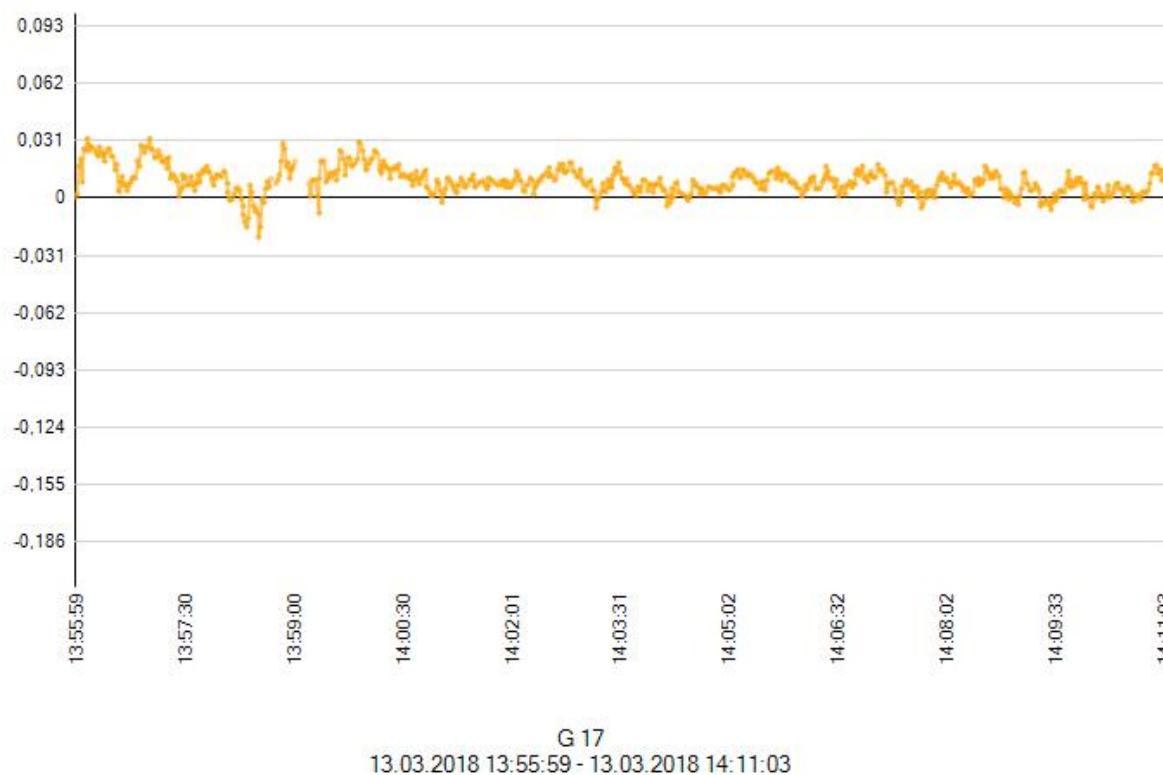
Mean = 0,000 m Std. Dev. = 0,015 m Min. = -0,041 m Max. = 0,061 m



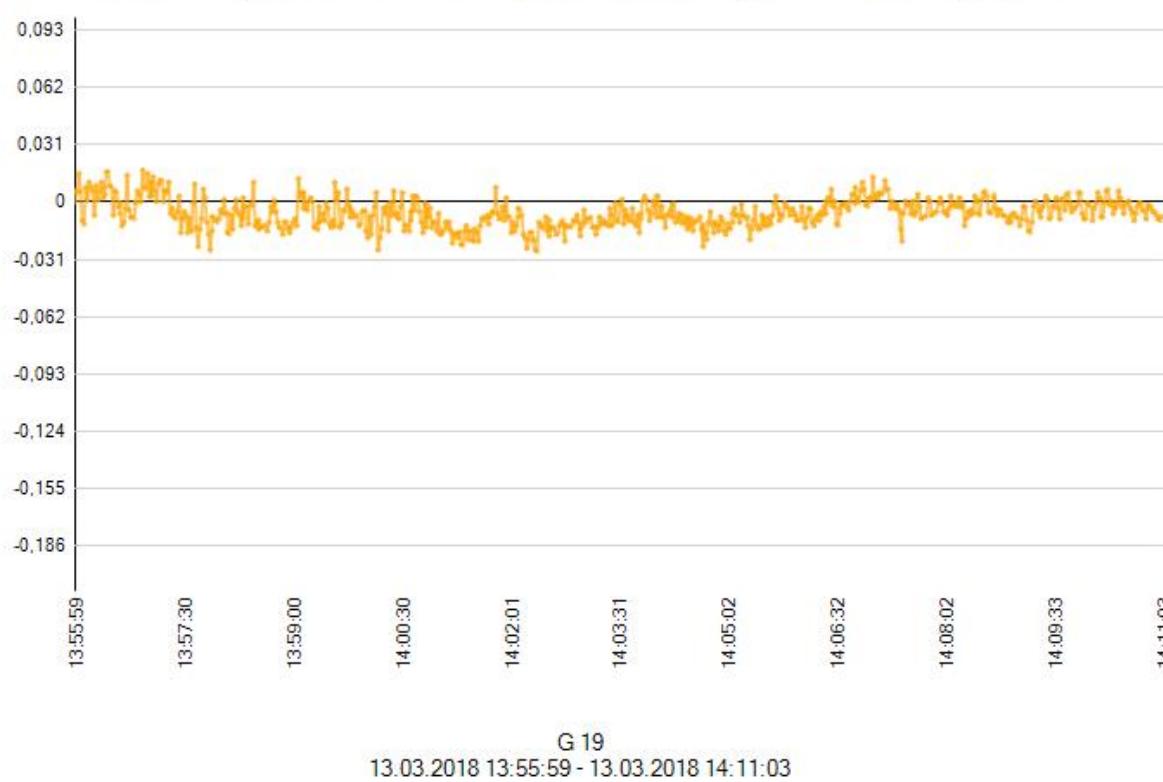
Mean = -0,011 m Std. Dev. = 0,015 m Min. = -0,042 m Max. = 0,025 m



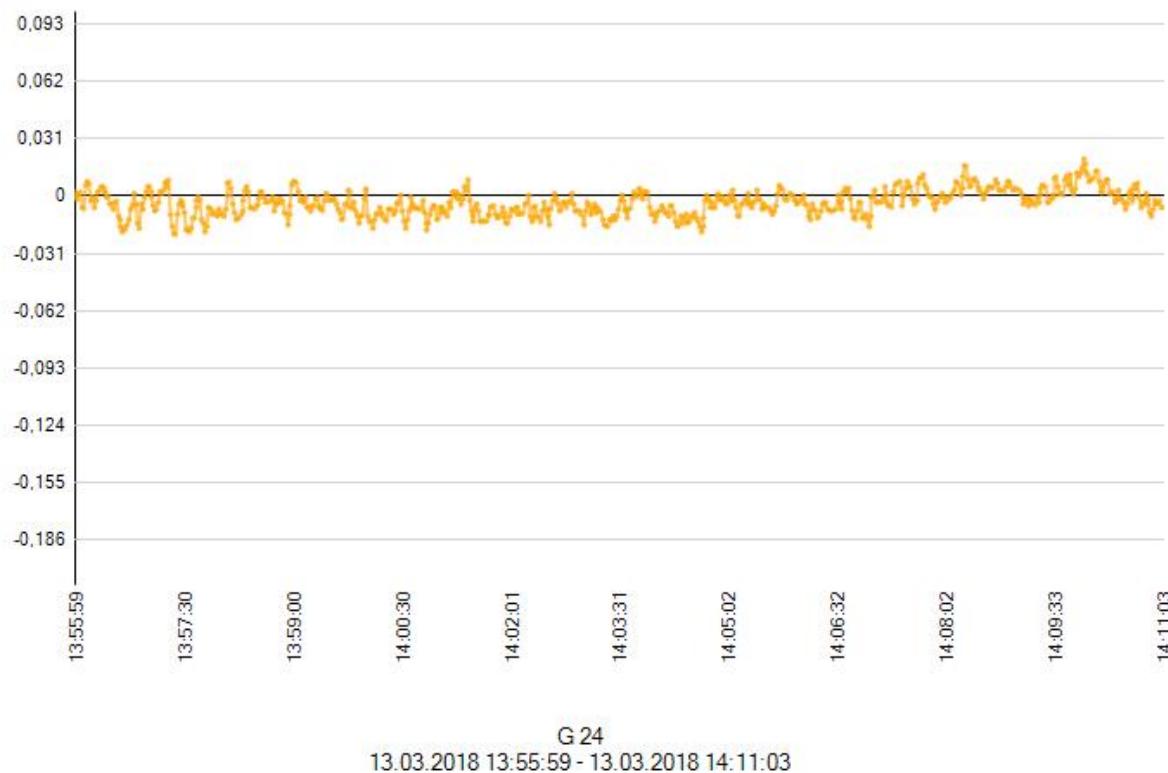
Mean = 0,009 m Std. Dev. = 0,007 m Min. = -0,021 m Max. = 0,032 m



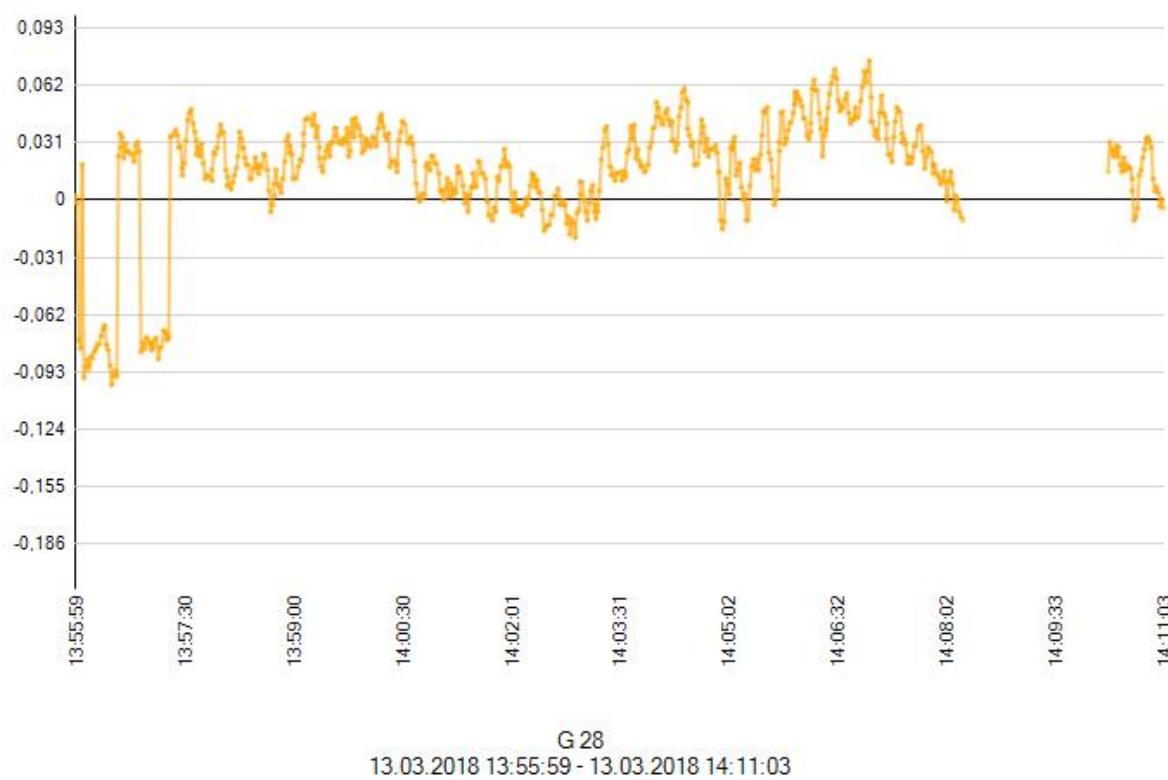
Mean = -0,006 m Std. Dev. = 0,007 m Min. = -0,027 m Max. = 0,017 m



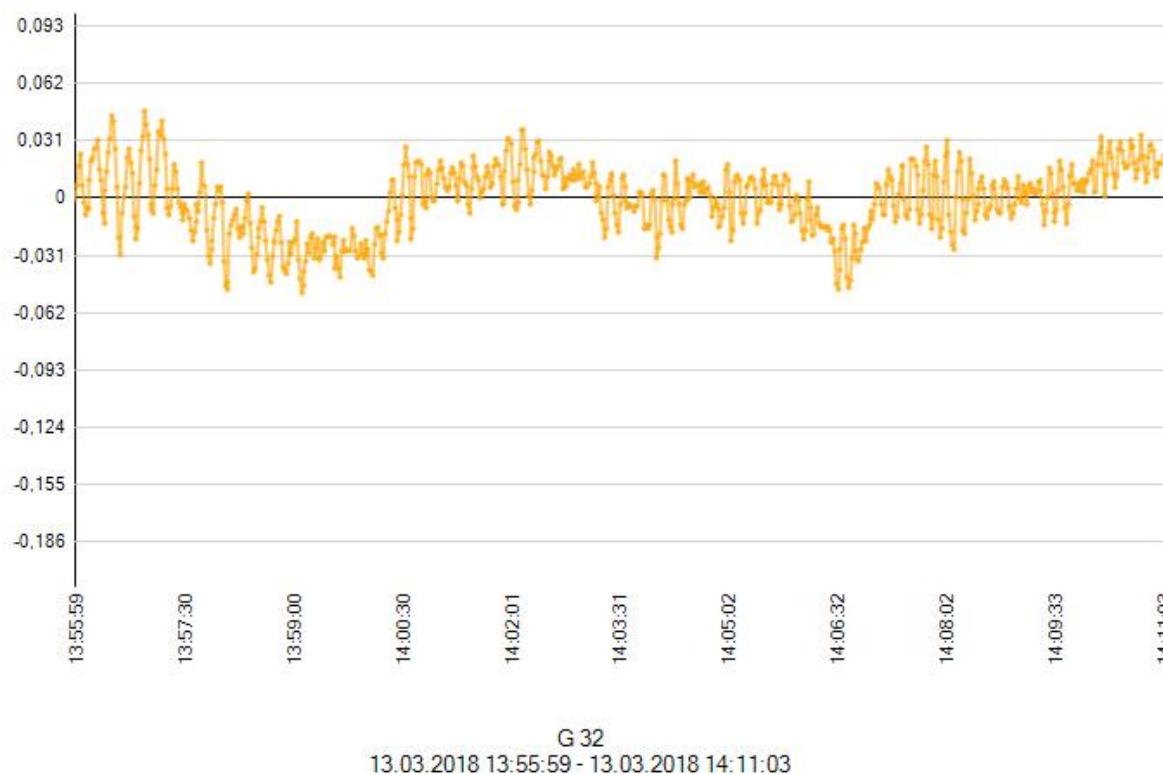
Mean = -0,003 m Std. Dev. = 0,007 m Min. = -0,021 m Max. = 0,020 m



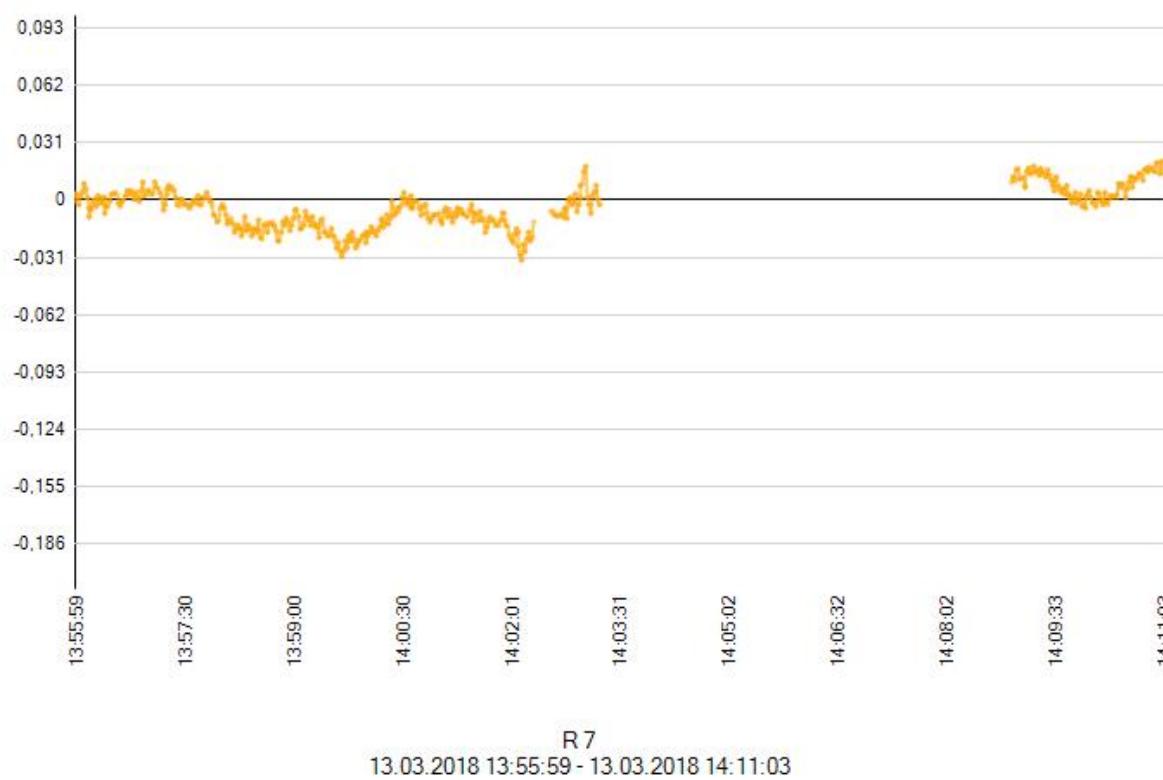
Mean = 0,015 m Std. Dev. = 0,032 m Min. = -0,100 m Max. = 0,075 m



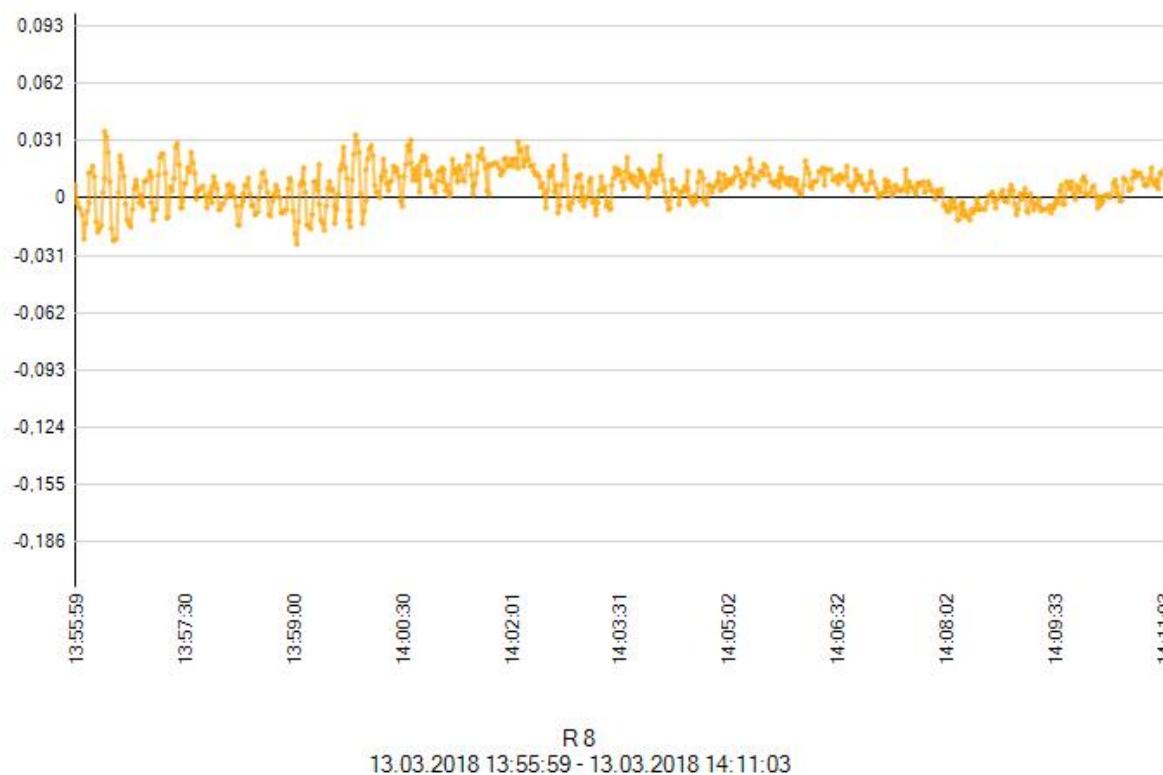
Mean = -0,001 m Std. Dev. = 0,018 m Min. = -0,051 m Max. = 0,048 m



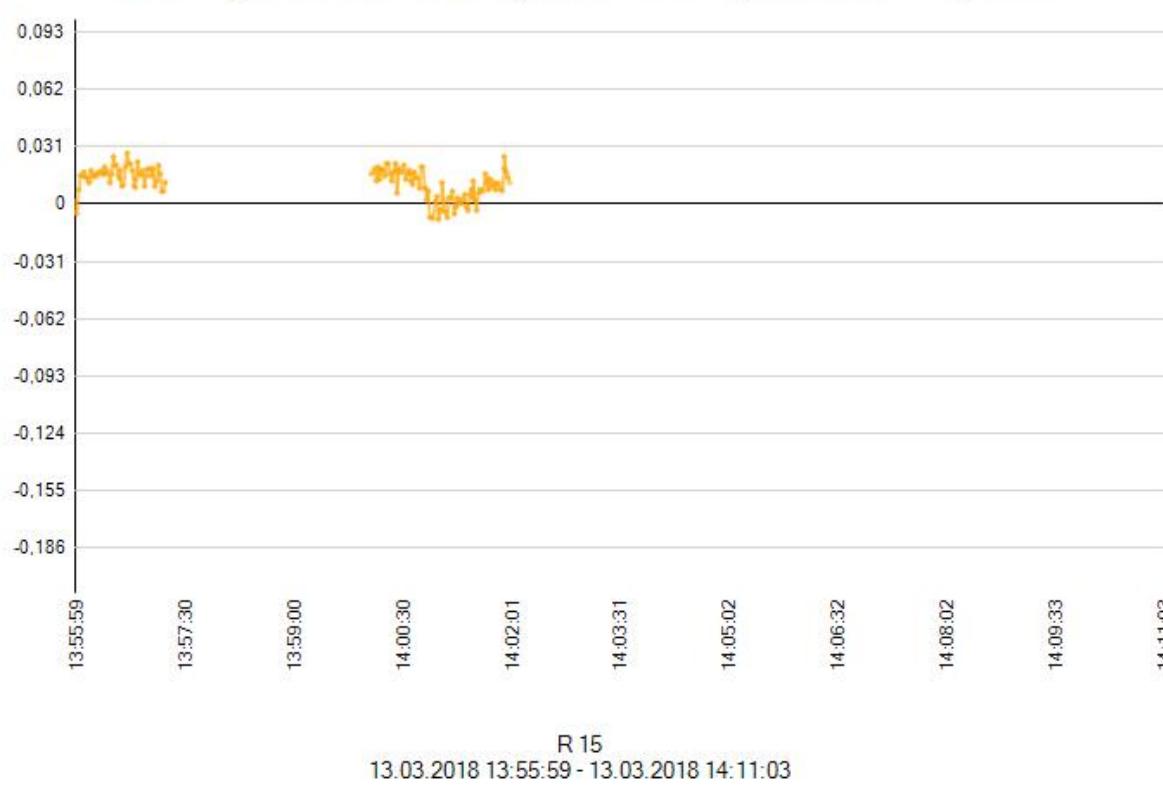
Mean = -0,004 m Std. Dev. = 0,011 m Min. = -0,033 m Max. = 0,021 m



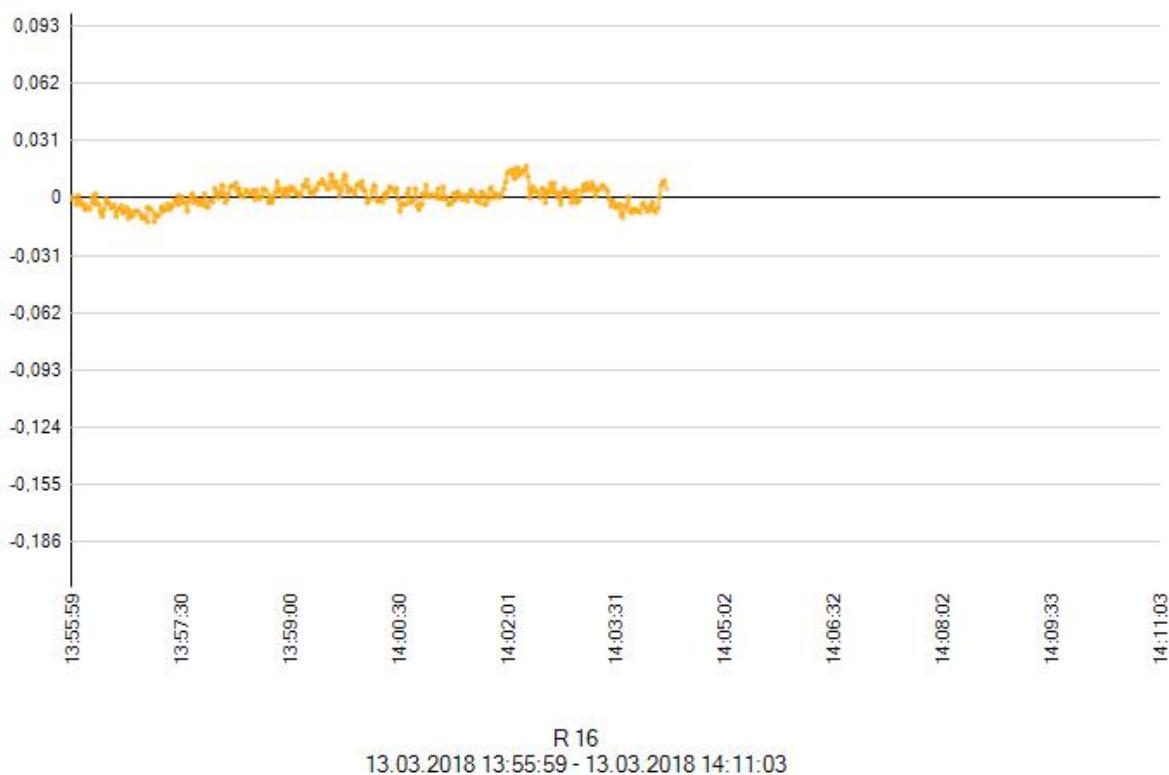
Mean = 0,006 m Std. Dev. = 0,009 m Min. = -0,025 m Max. = 0,036 m



Mean = 0,011 m Std. Dev. = 0,008 m Min. = -0,008 m Max. = 0,027 m

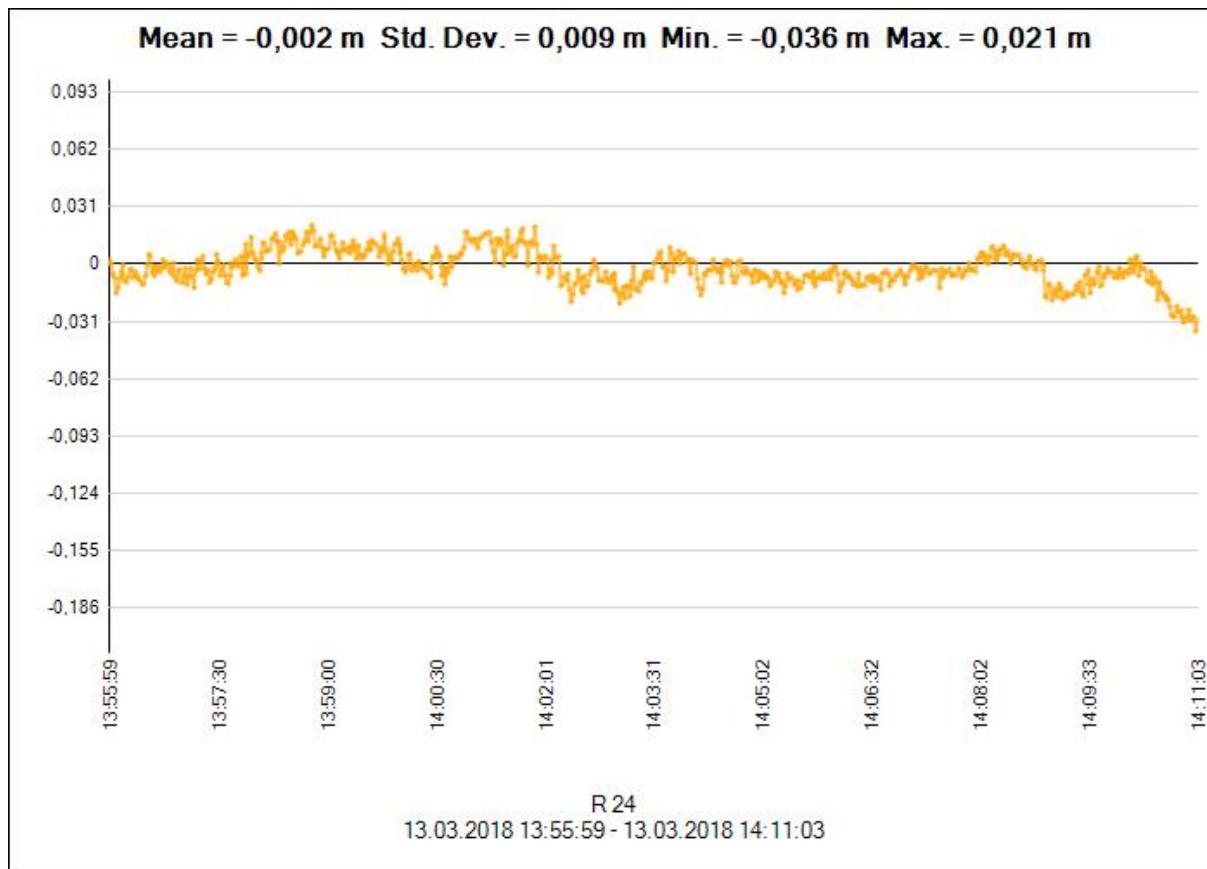


Mean = 0,001 m Std. Dev. = 0,005 m Min. = -0,013 m Max. = 0,017 m



Mean = -0,026 m Std. Dev. = 0,083 m Min. = -0,210 m Max. = 0,066 m





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: Multiple Frequencies
 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

LYRS - T1-2018 (13:36:48-13:51:49) (S5)

Baseline observation: LYRS --- T1-2018 (B5)
 Processed: 23.03.2018 15:15:12
 Solution type: Fixed
 Frequency used: Dual Frequency (L1, L2)
 Horizontal precision: 0,014 m
 Vertical precision: 0,037 m
 RMS: 0,002 m
 Maximum PDOP: 2,502
 Ephemeris used: Broadcast
 Antenna model: Trimble Calibration
 Processing start time: 13.03.2018 13:36:48 (Local: UTC+1hr)
 Processing stop time: 13.03.2018 13:51:49 (Local: UTC+1hr)
 Processing duration: 12:15:01 AM
 Processing interval: 1 second

Vector Components (Mark to Mark)

From:	LYRS				
Grid		Local		Global	
Easting	509048,138 m	Latitude	N78°13'43,77230"	Latitude	N78°13'43,77230"
Northing	8683937,568 m	Longitude	E15°23'50,31623"	Longitude	E15°23'50,31623"
Elevation	495,682 m	Height	495,682 m	Height	495,682 m

To:	T1-2018				
Grid		Local		Global	
Easting	528388,320 m	Latitude	N78°15'17,21274"	Latitude	N78°15'17,21274"
Northing	8687106,613 m	Longitude	E16°14'57,65176"	Longitude	E16°14'57,65176"
Elevation	341,427 m	Height	341,427 m	Height	341,427 m

Vector					
9Ughjb[19340,182 m	NS Fwd Azimuth	81°05'00"	L	-8047,503 m
Bcfh]b[3169,045 m	Ellipsoid Dist.	19605,850 m	M	17874,775 m
9Yj Uhcb	-154,254 m	<Y][\h	-154,254 m	N	439,556 m

Standard Errors

Vector errors:

9Ughb[0,005 m	'BG 'ZK X'5n]a i h	0°00'00"	L	0,005 m
Bcfh]b[0,005 m	'9``]dgc]X 8]gh	0,005 m	M	0,006 m
9`Yj Uhc[0,019 m	<Y][\h	0,019 m	N	0,018 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0,0000291901		
Y	0,0000224676	0,0000359499	
Z	0,0000622830	0,0000746723	0,0003370603

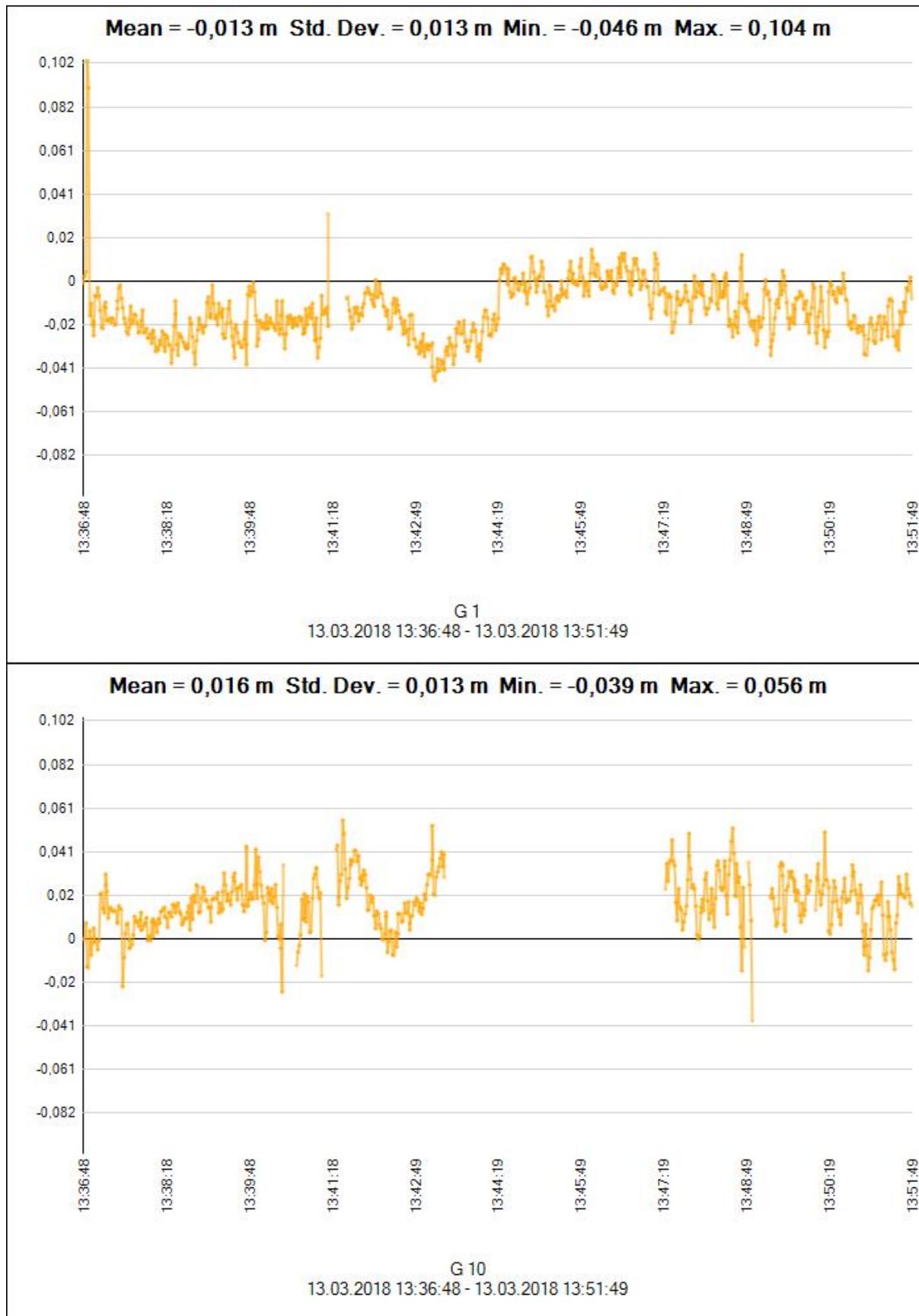
Occupations

	From	To
Point ID:	LYRS	T1-2018
Data file:	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\lyrs0720.18o	C:\Users\lth842\Documents\Trimble Business Center\Unnamed\46250722.t02
Receiver type:	NetR9	R4
Receiver serial number:	5504R50012	5127468778
Antenna type:	Zephyr Geodetic	R4 Internal
Antenna serial number:	60111442	47477114
Antenna height (measured):	0,000 m	0,660 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

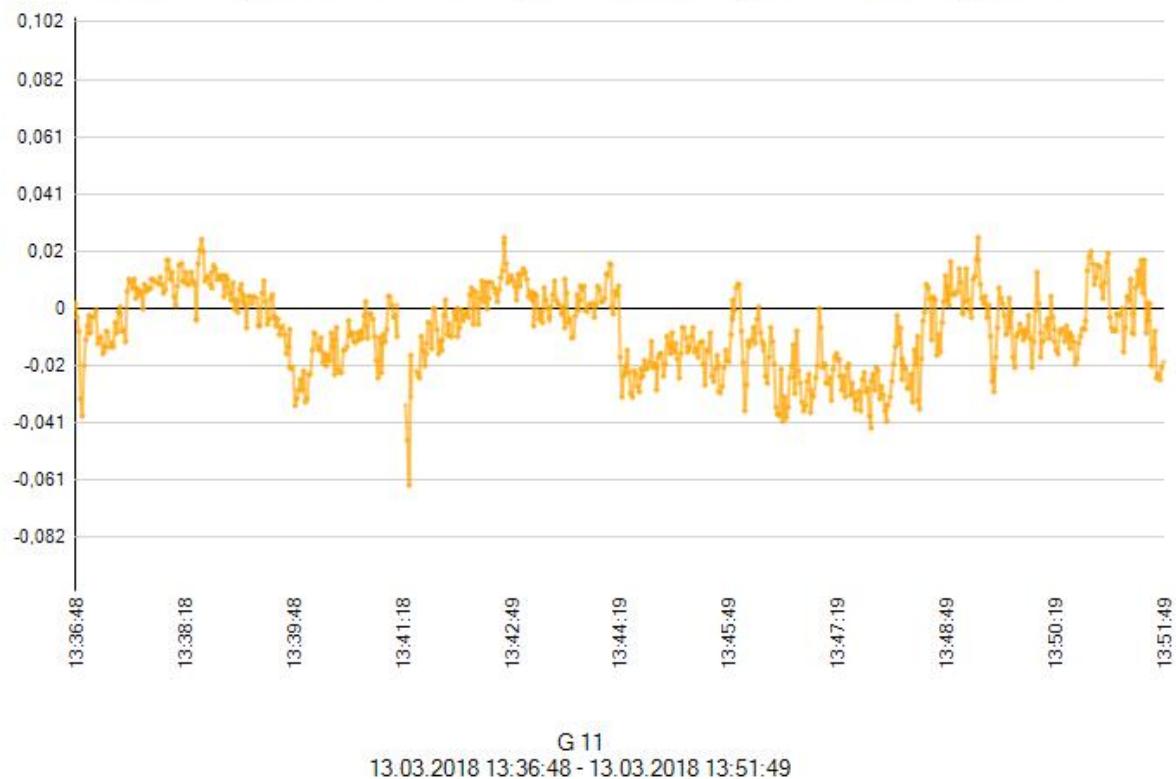
Tracking Summary

SV	13.03.2018 13:36:48	Duration: 00:15:01	Major interval: 00:01:00	13.03.2018 13:51:49
G 1	L1 L2			
G 10	L1 L2			
G 11	L1 L2			
G 15	L1 L2			
G 17	L1 L2			
G 19	L1 L2			
G 24	L1 L2			
G 28	L1 L2			
G 32	L1		- - - - -	- - - - -
R 6	L1 L2			
R 7	L1 L2			
R 8	L1 L2			
R 9	L1 L2			
R 15	L1 L2			
R 16	L1 L2			
R 17	L1 L2			
R 23	L1 L2			
R 24	L1 L2			

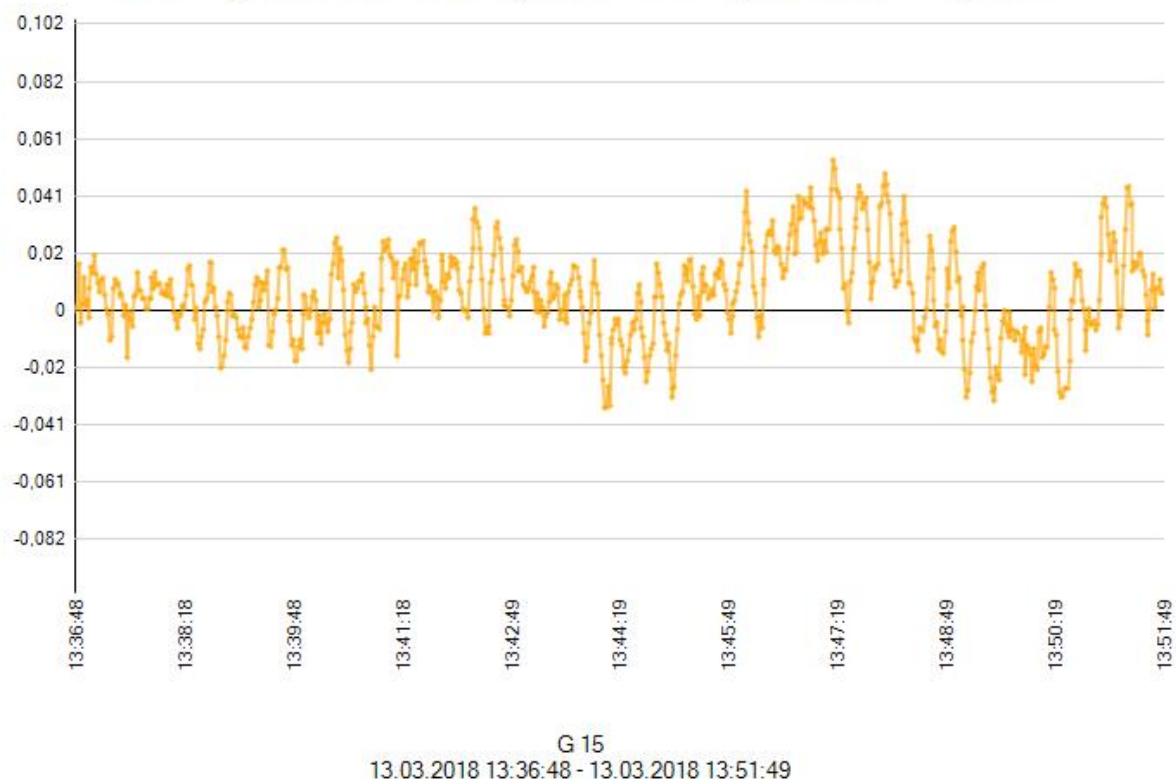
Residuals



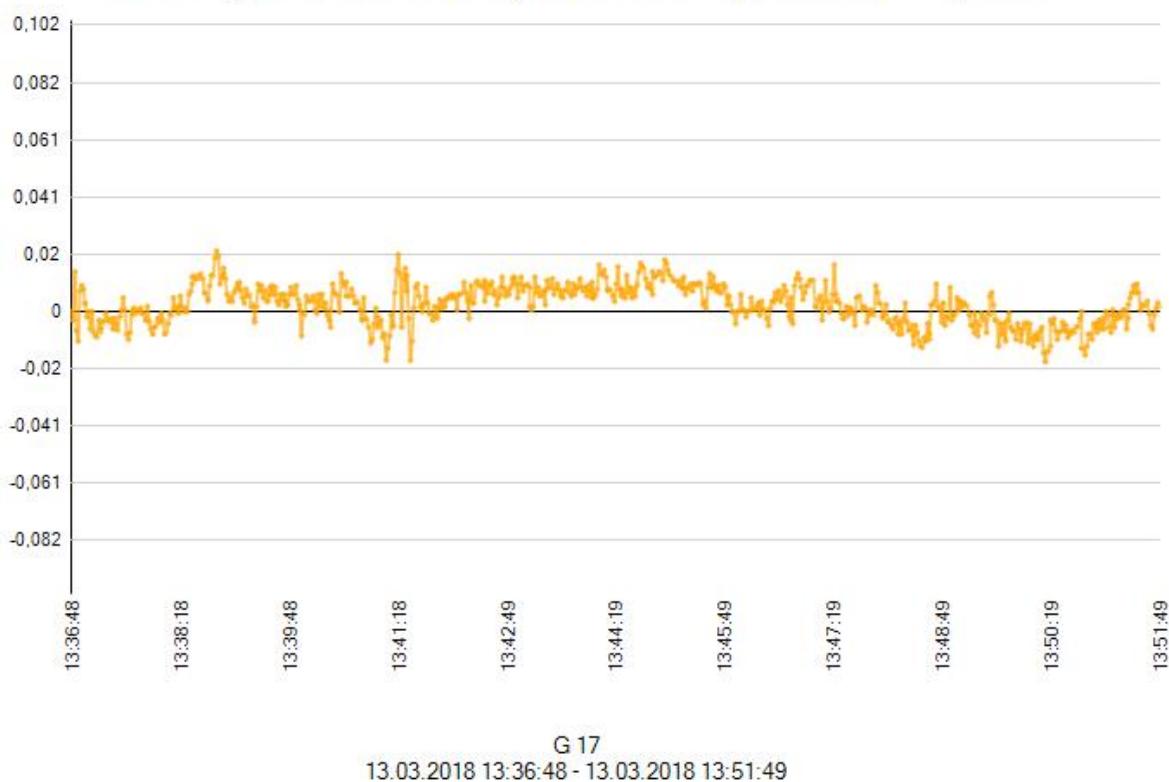
Mean = -0,007 m Std. Dev. = 0,014 m Min. = -0,063 m Max. = 0,026 m



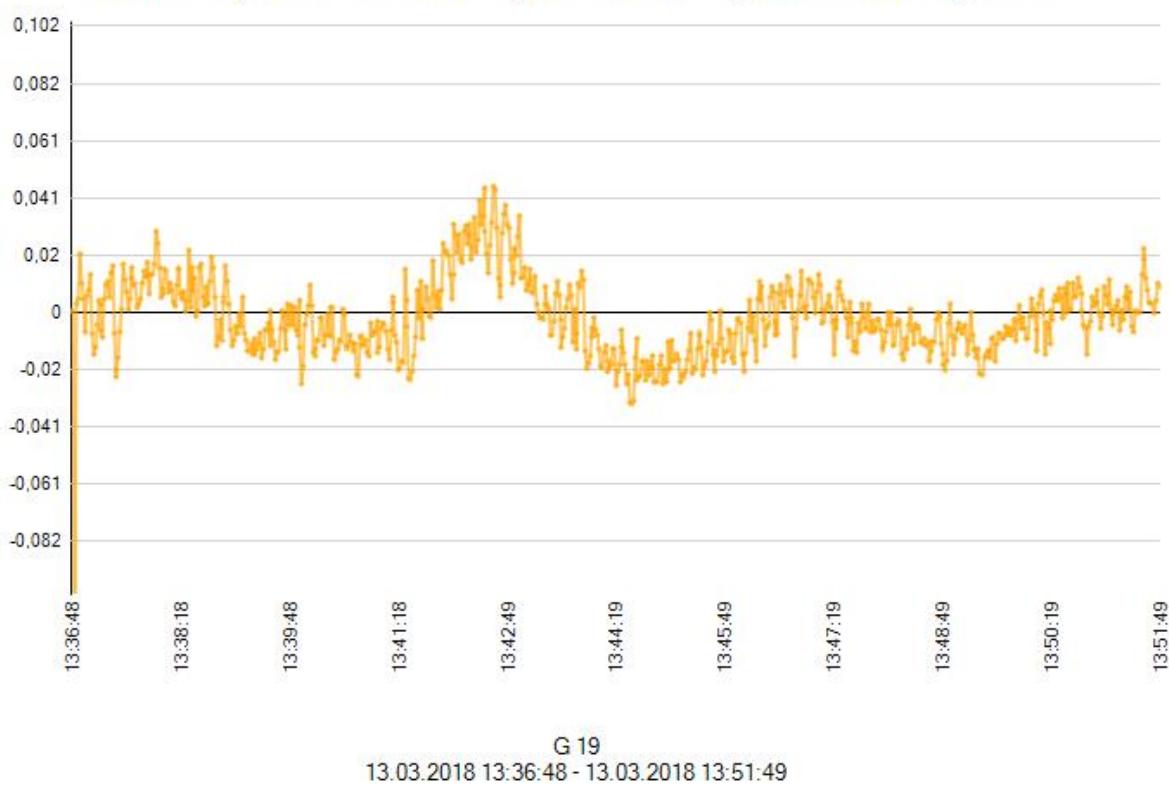
Mean = 0,006 m Std. Dev. = 0,015 m Min. = -0,035 m Max. = 0,054 m



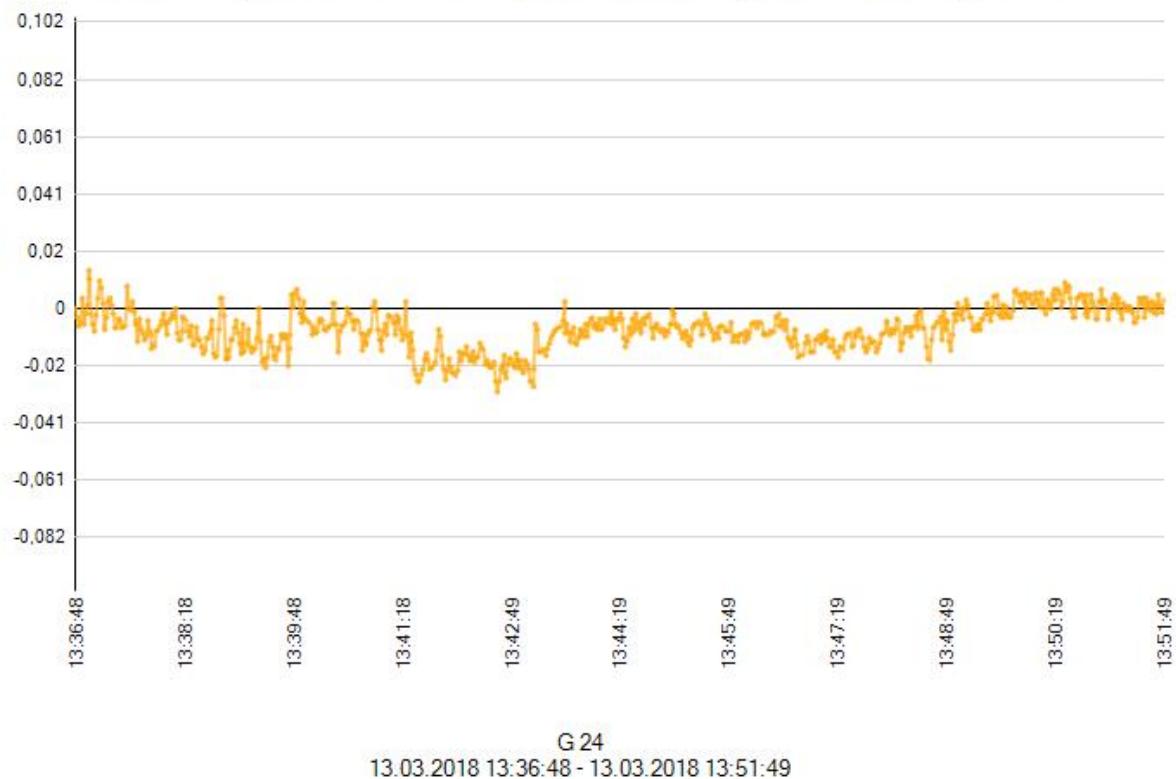
Mean = 0,002 m Std. Dev. = 0,007 m Min. = -0,018 m Max. = 0,022 m



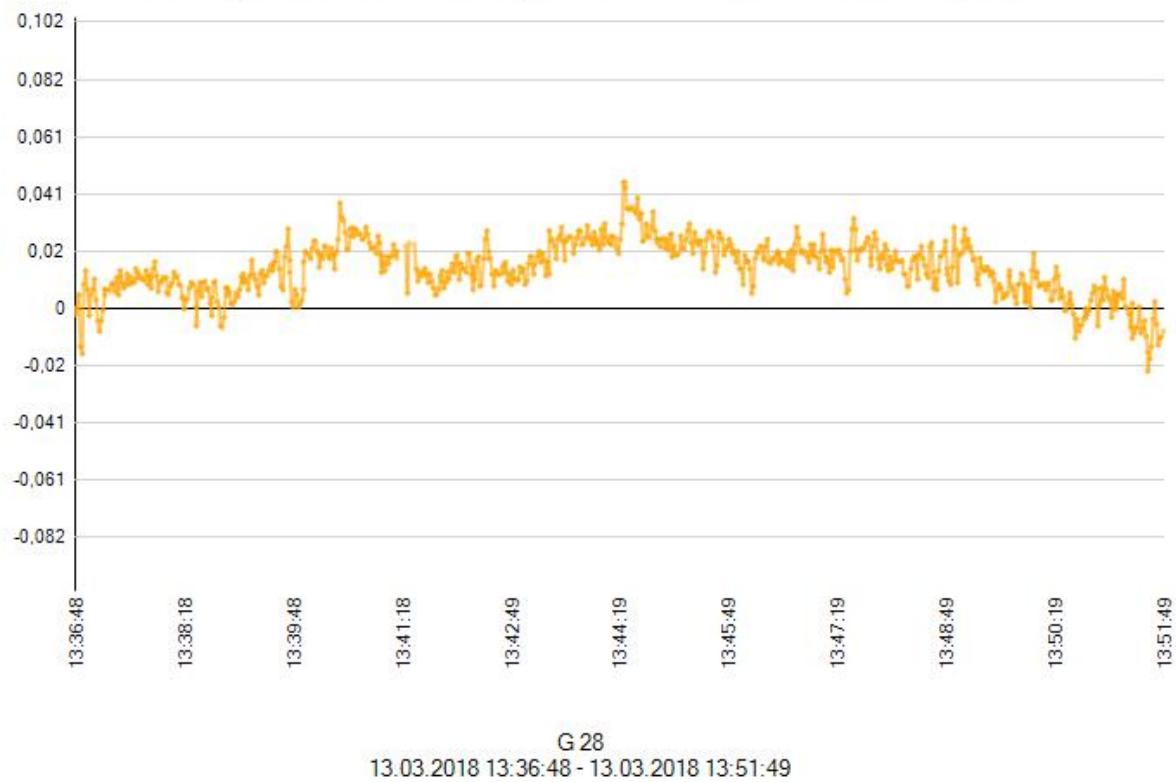
Mean = -0,002 m Std. Dev. = 0,013 m Min. = -0,100 m Max. = 0,045 m



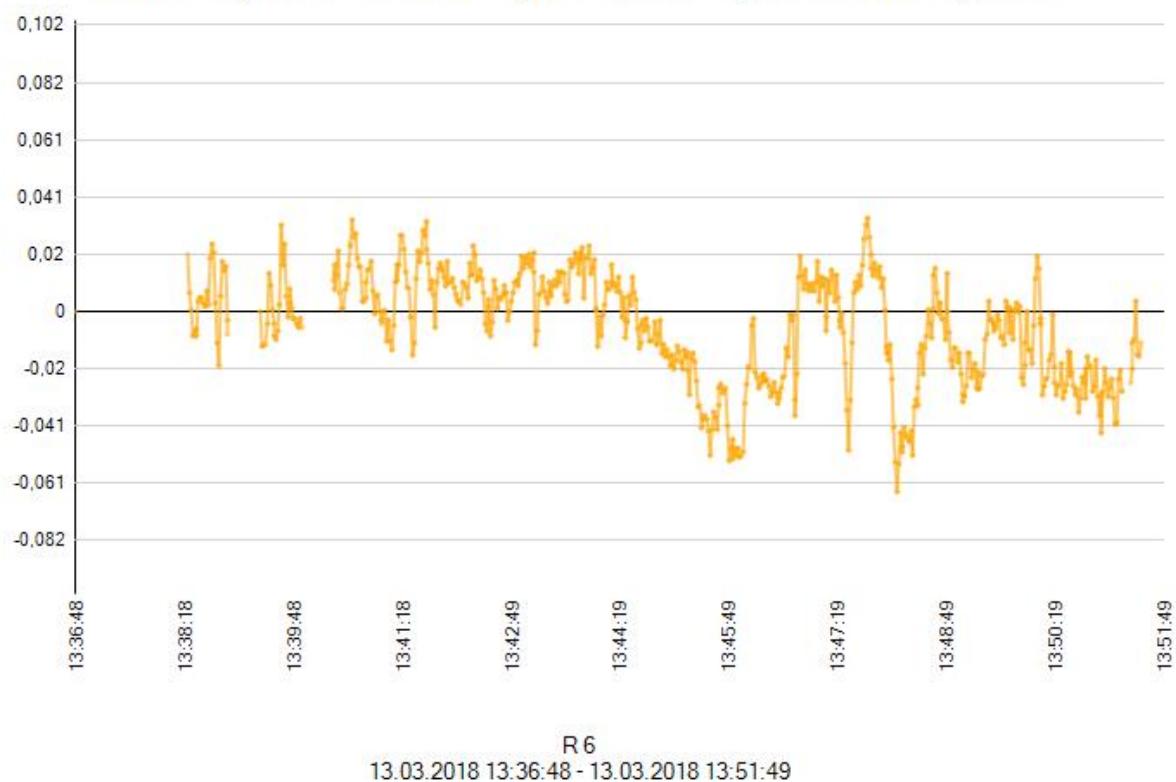
Mean = -0,007 m Std. Dev. = 0,007 m Min. = -0,030 m Max. = 0,013 m



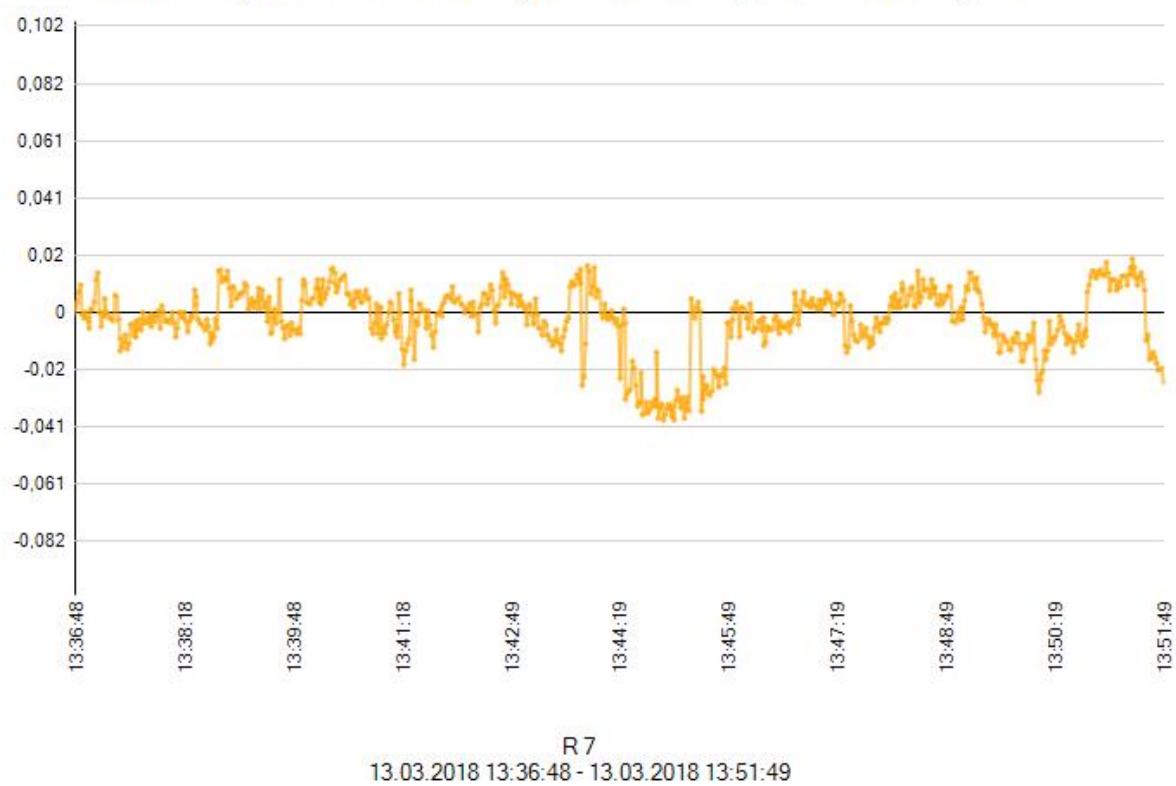
Mean = 0,014 m Std. Dev. = 0,010 m Min. = -0,022 m Max. = 0,045 m



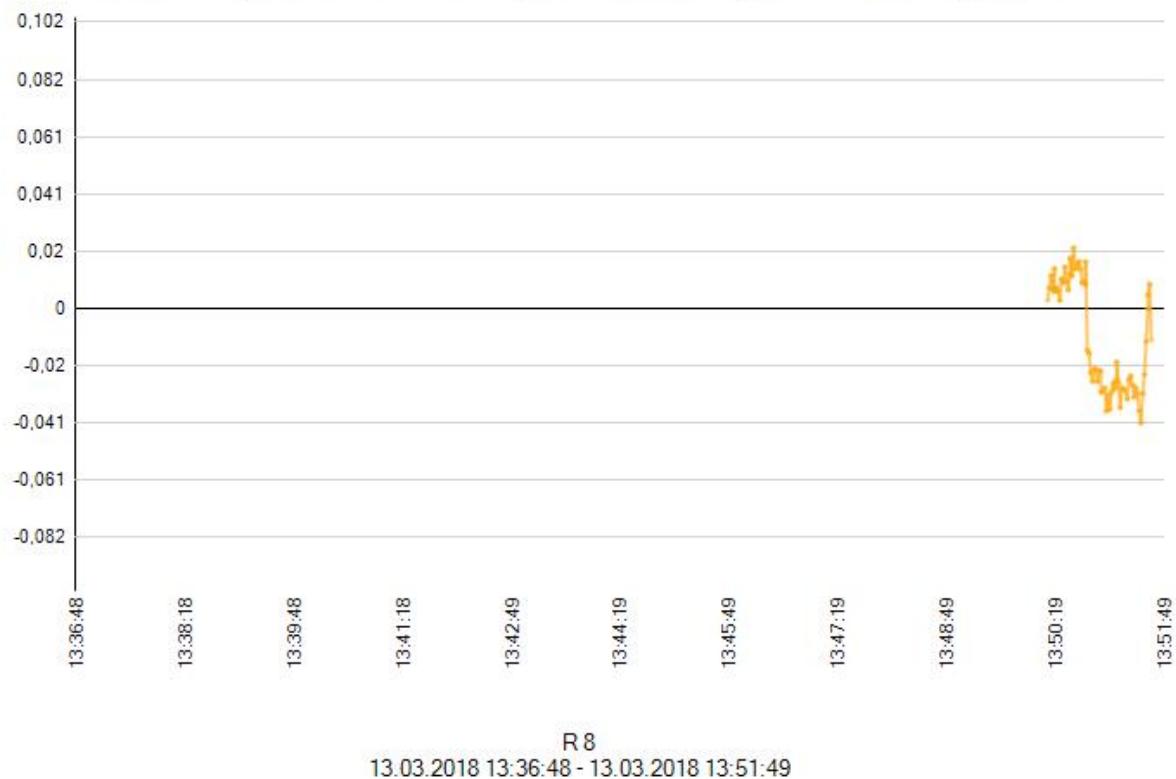
Mean = -0,005 m Std. Dev. = 0,019 m Min. = -0,064 m Max. = 0,033 m



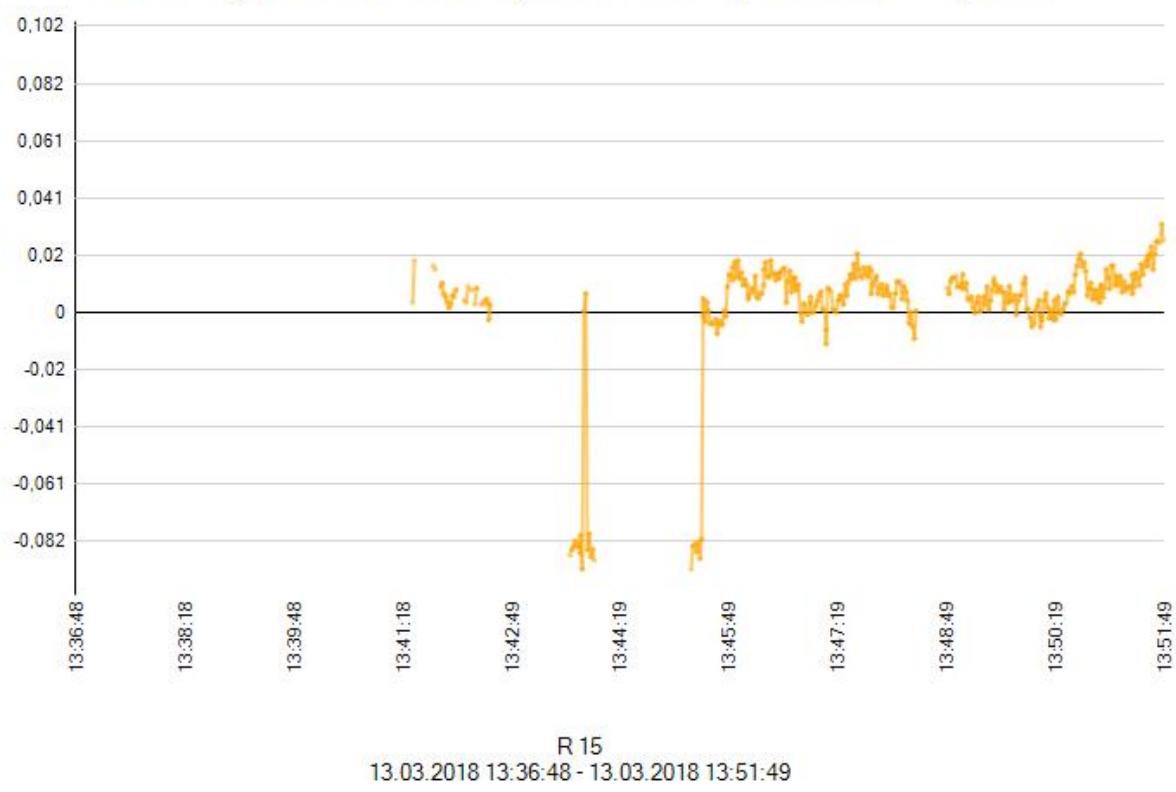
Mean = -0,003 m Std. Dev. = 0,011 m Min. = -0,038 m Max. = 0,019 m



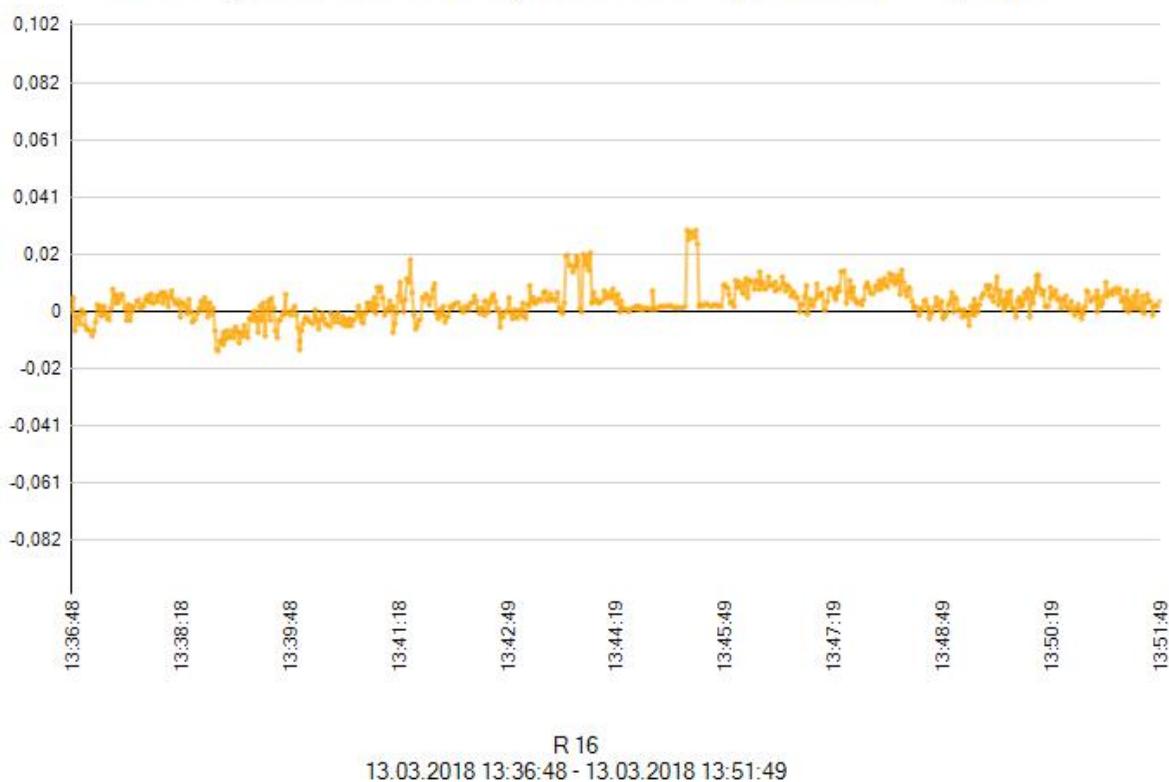
Mean = -0,011 m Std. Dev. = 0,019 m Min. = -0,041 m Max. = 0,022 m



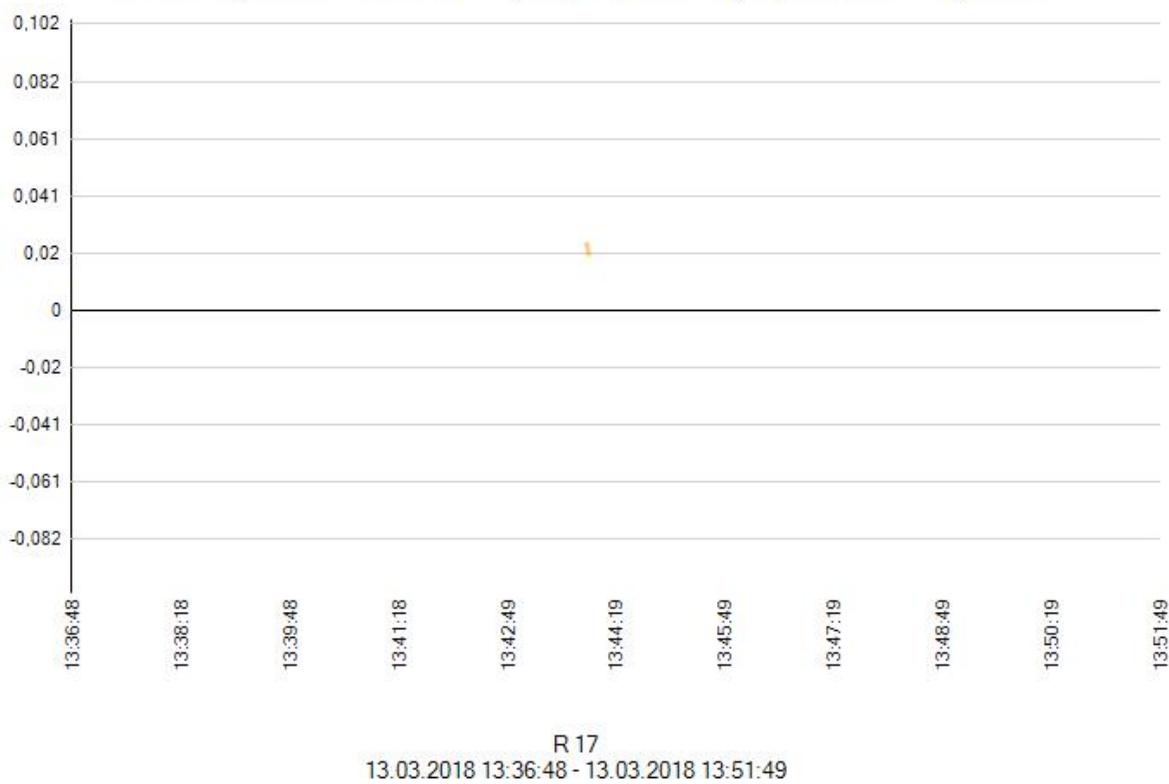
Mean = 0,002 m Std. Dev. = 0,023 m Min. = -0,092 m Max. = 0,031 m



Mean = 0,003 m Std. Dev. = 0,006 m Min. = -0,015 m Max. = 0,029 m



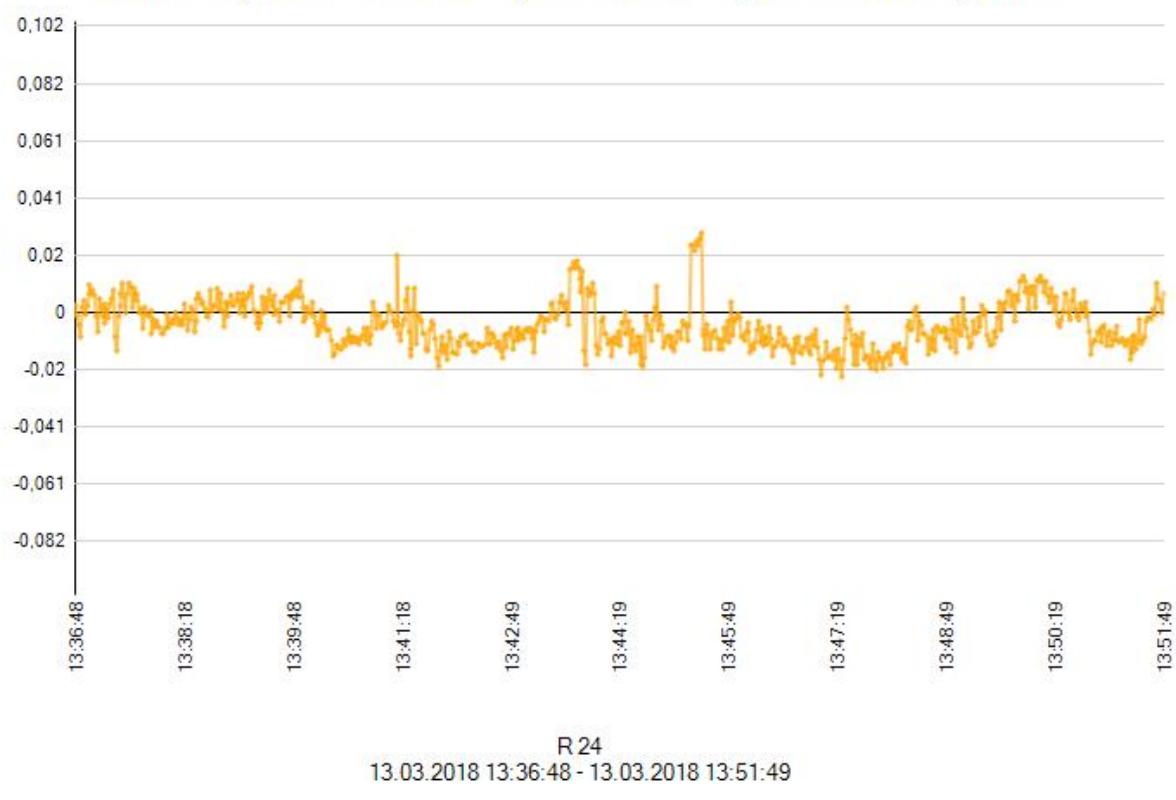
Mean = 0,022 m Std. Dev. = 0,002 m Min. = 0,020 m Max. = 0,024 m



Mean = -0,008 m Std. Dev. = 0,035 m Min. = -0,058 m Max. = 0,047 m



Mean = -0,004 m Std. Dev. = 0,008 m Min. = -0,023 m Max. = 0,028 m



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: Multiple Frequencies
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

3/23/2018 3:18:38 PM		Trimble Business Center
----------------------	--	-------------------------