

Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Zone:	44 North
Modified:		Datum:	WGS 1984
Time zone:		Global reference datum:	WGS 1984
Reference number:		Global reference epoch:	
Description:		Geoid:	EGM96 (Global)
Comment 1:		Vertical datum:	
Comment 2:		Calibrated site:	
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
V149 --- MDLH-05 (B1)	V149	MDLH-05	Fixed	0.0156	0.0347	178°25'57.6"	3.0802	-60.3856
V149 --- MDLH-04 (B3)	V149	MDLH-04	Fixed	0.0179	0.0229	328°12'45.3"	805.0264	-83.9356
V149 --- MDLH-03 (B4)	V149	MDLH-03	Fixed	0.0103	0.0154	290°47'17.6"	1303.4773	-71.4720
V149 --- MDLH-02 (B5)	V149	MDLH-02	Fixed	0.0203	0.0432	276°25'07.7"	2035.8075	-86.4590
V149 --- MDLH-08 (B6)	V149	MDLH-08	Fixed	0.0096	0.0186	253°11'29.2"	1665.3844	-78.0561
V149 --- MDLH-06 (B7)	V149	MDLH-06	Fixed	0.0166	0.0286	36°51'42.2"	1700.0126	-70.1633

Acceptance Summary

Processed	Passed	Flag	Fail
6	6	0	0

V149 - MDLH-05 (05:45:00-05:59:58) (S1)

Baseline observation:	V149 --- MDLH-05 (B1)
Processed:	23-07-2025 07:02:45
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0156 m
Vertical precision:	0.0347 m
RMS:	0.0352 m
Maximum PDOP:	2.127
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	22-07-2025 05:45:00 (GPS Time)
Processing stop time:	22-07-2025 05:59:58 (GPS Time)
Processing duration:	00:14:58
Processing interval:	1 second
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:	V149				
Grid		Local		Global	
Easting	478673.385 m	Latitude	N24°54'32.04700"	Latitude	N24°54'32.04700"
Northing	2754877.205 m	Longitude	E80°47'19.72400"	Longitude	E80°47'19.72400"
Elevation	404.475 m	Height	344.814 m	Height	344.814 m

To: MDLH-05					
Grid		Local		Global	
Easting	478673.464 m	Latitude	N24°54'31.94693"	Latitude	N24°54'31.94693"
Northing	2754874.127 m	Longitude	E80°47'19.72700"	Longitude	E80°47'19.72700"
Elevation	344.090 m	Height	284.428 m	Height	284.428 m

Vector					
ΔEasting	0.0794 m	NS Fwd Azimuth	178°25'57.6"	ΔX	-8.6426 m
ΔNorthing	-3.0779 m	Ellipsoid Dist.	3.0802 m	ΔY	-52.7686 m
ΔElevation	-60.386 m	ΔHeight	-60.3856 m	ΔZ	-28.2257 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0108 m	σ NS fwd Azimuth	0°12'03.5"	σ ΔX	0.0112 m
σ ΔNorthing	0.0091 m	σ Ellipsoid Dist.	0.0091 m	σ ΔY	0.0327 m
σ ΔElevation	0.0347 m	σ ΔHeight	0.0347 m	σ ΔZ	0.0144 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001245883		
Y	0.0001039011	0.0010683479	
Z	0.0000202059	0.0003674834	0.0002083791

Occupations

	From	To
Point ID:	V149	MDLH-05
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9810 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

V149 - MDLH-04 (04:44:27-05:00:34) (S3)

Baseline observation:	V149 --- MDLH-04 (B3)
Processed:	23-07-2025 07:02:45
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0179 m
Vertical precision:	0.0229 m
RMS:	0.0359 m
Maximum PDOP:	1.637
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	22-07-2025 04:44:27 (GPS Time)
Processing stop time:	22-07-2025 05:00:34 (GPS Time)
Processing duration:	00:16:07
Processing interval:	1 second
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:	V149				
	Grid		Local		Global
Easting	478673.385 m	Latitude	N24°54'32.04700"	Latitude	N24°54'32.04700"
Northing	2754877.205 m	Longitude	E80°47'19.72400"	Longitude	E80°47'19.72400"
Elevation	404.475 m	Height	344.814 m	Height	344.814 m

To:	MDLH-04				
	Grid		Local		Global
Easting	478250.552 m	Latitude	N24°54'54.28539"	Latitude	N24°54'54.28539"
Northing	2755561.872 m	Longitude	E80°47'04.61178"	Longitude	E80°47'04.61178"
Elevation	320.552 m	Height	260.878 m	Height	260.878 m

Vector					
ΔEasting	-422.8332 m	NS Fwd Azimuth	328°12'45.3"	ΔX	360.2827 m
ΔNorthing	684.6668 m	Ellipsoid Dist.	805.0264 m	ΔY	-427.5738 m
ΔElevation	-83.923 m	ΔHeight	-83.9356 m	ΔZ	585.2789 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0098 m	σ NS fwd Azimuth	0°00'02.3"	σ ΔX	0.0101 m
σ ΔNorthing	0.0120 m	σ Ellipsoid Dist.	0.0126 m	σ ΔY	0.0198 m
σ ΔElevation	0.0229 m	σ ΔHeight	0.0229 m	σ ΔZ	0.0164 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001030188		
Y	0.0000430441	0.0003937981	
Z	0.0000622970	0.0001854130	0.0002686782



Occupations

	From	To
Point ID:	V149	MDLH-04
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9810 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Processing style

Elevation mask:	10°00'00.0"
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	All Frequencies
Processing Interval:	Automatic
Force float:	No
GIS processing type:	Automatic Carrier and Code Processing

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

V149 - MDLH-03 (04:12:55-04:28:35) (S4)

Baseline observation:	V149 --- MDLH-03 (B4)
Processed:	23-07-2025 07:02:45
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0103 m
Vertical precision:	0.0154 m
RMS:	0.0308 m
Maximum PDOP:	3.493
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	22-07-2025 04:12:55 (GPS Time)
Processing stop time:	22-07-2025 04:28:35 (GPS Time)
Processing duration:	00:15:40
Processing interval:	1 second
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:	V149				
Grid		Local		Global	
Easting	478673.385 m	Latitude	N24°54'32.04700"	Latitude	N24°54'32.04700"
Northing	2754877.205 m	Longitude	E80°47'19.72400"	Longitude	E80°47'19.72400"
Elevation	404.475 m	Height	344.814 m	Height	344.814 m

To:		MDLH-03			
Grid		Local		Global	
Easting	477455.965 m	Latitude	N24°54'47.08019"	Latitude	N24°54'47.08019"
Northing	2755341.537 m	Longitude	E80°46'36.29710"	Longitude	E80°46'36.29710"
Elevation	333.006 m	Height	273.342 m	Height	273.342 m

Vector					
ΔEasting	-1217.4195 m	NS Fwd Azimuth	290°47'17.6"	ΔX	1161.3696 m
ΔNorthing	464.3318 m	Ellipsoid Dist.	1303.4773 m	ΔY	-451.5264 m
ΔElevation	-71.469 m	ΔHeight	-71.4720 m	ΔZ	389.4492 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0069 m	σ NS fwd Azimuth	0°00'00.9"	σ ΔX	0.0076 m
σ ΔNorthing	0.0063 m	σ Ellipsoid Dist.	0.0072 m	σ ΔY	0.0137 m
σ ΔElevation	0.0154 m	σ ΔHeight	0.0154 m	σ ΔZ	0.0088 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000573697		
Y	0.0000411858	0.0001886197	
Z	0.0000297749	0.0000738727	0.0000769883



Occupations

	From	To
Point ID:	V149	MDLH-03
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9810 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Processing style

Elevation mask:	10°00'00.0"
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	All Frequencies
Processing Interval:	Automatic
Force float:	No
GIS processing type:	Automatic Carrier and Code Processing

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

V149 - MDLH-02 (03:12:23-03:29:23) (S5)

Baseline observation:	V149 --- MDLH-02 (B5)
Processed:	23-07-2025 07:02:48
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0203 m
Vertical precision:	0.0432 m
RMS:	0.0274 m
Maximum PDOP:	1.645
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	22-07-2025 03:14:54 (GPS Time)
Processing stop time:	22-07-2025 03:29:23 (GPS Time)
Processing duration:	00:14:29
Processing interval:	1 second
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:	V149				
Grid		Local		Global	
Easting	478673.385 m	Latitude	N24°54'32.04700"	Latitude	N24°54'32.04700"
Northing	2754877.205 m	Longitude	E80°47'19.72400"	Longitude	E80°47'19.72400"
Elevation	404.475 m	Height	344.814 m	Height	344.814 m

To:		MDLH-02			
Grid		Local		Global	
Easting	476651.492 m	Latitude	N24°54'39.43878"	Latitude	N24°54'39.43878"
Northing	2755107.848 m	Longitude	E80°46'07.63166"	Longitude	E80°46'07.63166"
Elevation	318.009 m	Height	258.355 m	Height	258.355 m

Vector					
ΔEasting	-2021.8933 m	NS Fwd Azimuth	276°25'07.7"	ΔX	1969.0949 m
ΔNorthing	230.6428 m	Ellipsoid Dist.	2035.8075 m	ΔY	-496.1707 m
ΔElevation	-86.467 m	ΔHeight	-86.4590 m	ΔZ	169.8792 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0136 m	σ NS fwd Azimuth	0°00'01.1"	σ ΔX	0.0138 m
σ ΔNorthing	0.0111 m	σ Ellipsoid Dist.	0.0139 m	σ ΔY	0.0410 m
σ ΔElevation	0.0432 m	σ ΔHeight	0.0432 m	σ ΔZ	0.0174 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001907508		
Y	0.0001421794	0.0016791293	
Z	0.0000909837	0.0005490332	0.0003024597



Occupations

	From	To
Point ID:	V149	MDLH-02
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9810 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Processing style

Elevation mask:	10°00'00.0"
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	All Frequencies
Processing Interval:	Automatic
Force float:	No
GIS processing type:	Automatic Carrier and Code Processing

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

V149 - MDLH-08 (02:34:53-02:51:04) (S6)

Baseline observation:	V149 --- MDLH-08 (B6)
Processed:	23-07-2025 07:02:48
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0096 m
Vertical precision:	0.0186 m
RMS:	0.0174 m
Maximum PDOP:	1.352
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	22-07-2025 02:34:53 (GPS Time)
Processing stop time:	22-07-2025 02:48:06 (GPS Time)
Processing duration:	00:13:13
Processing interval:	1 second
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:	V149				
Grid		Local		Global	
Easting	478673.385 m	Latitude	N24°54'32.04700"	Latitude	N24°54'32.04700"
Northing	2754877.205 m	Longitude	E80°47'19.72400"	Longitude	E80°47'19.72400"
Elevation	404.475 m	Height	344.814 m	Height	344.814 m

To:		MDLH-08			
Grid		Local		Global	
Easting	477079.035 m	Latitude	N24°54'16.39273"	Latitude	N24°54'16.39273"
Northing	2754398.282 m	Longitude	E80°46'22.91557"	Longitude	E80°46'22.91557"
Elevation	326.399 m	Height	266.758 m	Height	266.758 m

Vector					
Δ Easting	-1594.3503 m	NS Fwd Azimuth	253°11'29.2"	Δ X	1594.8468 m
Δ Northing	-478.9233 m	Ellipsoid Dist.	1665.3844 m	Δ Y	-125.0565 m
Δ Elevation	-78.077 m	Δ Height	-78.0561 m	Δ Z	-469.7747 m

Standard Errors

Vector errors:					
σ Δ Easting	0.0063 m	σ NS fwd Azimuth	0°00'00.8"	σ Δ X	0.0076 m
σ Δ Northing	0.0057 m	σ Ellipsoid Dist.	0.0058 m	σ Δ Y	0.0155 m
σ Δ Elevation	0.0186 m	σ Δ Height	0.0186 m	σ Δ Z	0.0109 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000573696		
Y	0.0000727067	0.0002403766	
Z	0.0000525599	0.0001396665	0.0001193991



Occupations

	From	To
Point ID:	V149	MDLH-08
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9810 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Processing style

Elevation mask:	10°00'00.0"
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	All Frequencies
Processing Interval:	Automatic
Force float:	No
GIS processing type:	Automatic Carrier and Code Processing

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

V149 - MDLH-06 (06:28:20-06:43:27) (S7)

Baseline observation:	V149 --- MDLH-06 (B7)
Processed:	23-07-2025 07:02:48
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0166 m
Vertical precision:	0.0286 m
RMS:	0.0399 m
Maximum PDOP:	2.345
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	22-07-2025 06:28:20 (GPS Time)
Processing stop time:	22-07-2025 06:43:27 (GPS Time)
Processing duration:	00:15:07
Processing interval:	1 second
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:	V149				
Grid		Local		Global	
Easting	478673.385 m	Latitude	N24°54'32.04700"	Latitude	N24°54'32.04700"
Northing	2754877.205 m	Longitude	E80°47'19.72400"	Longitude	E80°47'19.72400"
Elevation	404.475 m	Height	344.814 m	Height	344.814 m

To:		MDLH-06			
Grid		Local		Global	
Easting	479694.906 m	Latitude	N24°55'16.24987"	Latitude	N24°55'16.24987"
Northing	2756235.239 m	Longitude	E80°47'56.06861"	Longitude	E80°47'56.06861"
Elevation	334.348 m	Height	274.651 m	Height	274.651 m

Vector					
Δ Easting	1021.5212 m	NS Fwd Azimuth	36°51'42.2"	Δ X	-1108.6309 m
Δ Northing	1358.0342 m	Ellipsoid Dist.	1700.0126 m	Δ Y	-465.2701 m
Δ Elevation	-70.127 m	Δ Height	-70.1633 m	Δ Z	1204.0384 m

Standard Errors

Vector errors:					
σ Δ Easting	0.0098 m	σ NS fwd Azimuth	0°00'01.0"	σ Δ X	0.0117 m
σ Δ Northing	0.0103 m	σ Ellipsoid Dist.	0.0117 m	σ Δ Y	0.0273 m
σ Δ Elevation	0.0286 m	σ Δ Height	0.0286 m	σ Δ Z	0.0119 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0001360412		
Y	0.0001733882	0.0007430038	
Z	0.0000227195	0.0001946322	0.0001418308

Occupations

	From	To
Point ID:	V149	MDLH-06
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9810 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	Δ Height
V737 --- MDLH-07 (B1)	V737	MDLH-07	Fixed	0.0097	0.0166	168°31'38.0"	3.5580	-61.8396
V737 --- BLB-B (B2)	V737	BLB-B	Fixed	0.0055	0.0086	265°17'09.9"	883.9386	2.6694

Acceptance Summary

Processed	Passed	Flag	Fail
2	2	0	0

V737 - MDLH-07 (06:45:32-07:00:37) (S1)

Baseline observation:	V737 --- MDLH-07 (B1)
Processed:	26-07-2025 07:22:42
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0097 m
Vertical precision:	0.0166 m
RMS:	0.0307 m
Maximum PDOP:	1.796
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	23-07-2025 06:45:32 (GPS Time)
Processing stop time:	23-07-2025 07:00:37 (GPS Time)
Processing duration:	00:15:05
Processing interval:	1 second
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:		V737			
Grid		Local		Global	
Easting	476007.836 m	Latitude	N24°54'23.55600"	Latitude	N24°54'23.55600"
Northing	2754620.437 m	Longitude	E80°45'44.71600"	Longitude	E80°45'44.71600"
Elevation	431.081 m	Height	371.442 m	Height	371.442 m

To:		MDLH-07			
Grid		Local		Global	
Easting	476008.537 m	Latitude	N24°54'23.44268"	Latitude	N24°54'23.44268"
Northing	2754616.950 m	Longitude	E80°45'44.74122"	Longitude	E80°45'44.74122"
Elevation	369.241 m	Height	309.602 m	Height	309.602 m

Vector					
ΔEasting	0.7013 m	NS Fwd Azimuth	168°31'38.0"	ΔX	-9.4666 m
ΔNorthing	-3.4868 m	Ellipsoid Dist.	3.5580 m	ΔY	-53.7977 m
ΔElevation	-61.840 m	ΔHeight	-61.8396 m	ΔZ	-29.2058 m

Standard Errors

Vector errors:					
σ Δ Easting	0.0063 m	σ NS fwd Azimuth	0°06'05.8"	σ Δ X	0.0071 m
σ Δ Northing	0.0068 m	σ Ellipsoid Dist.	0.0068 m	σ Δ Y	0.0157 m
σ Δ Elevation	0.0166 m	σ Δ Height	0.0166 m	σ Δ Z	0.0079 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000509687		
Y	0.0000516406	0.0002475157	
Z	0.0000192879	0.0000639654	0.0000626237



Occupations

	From	To
Point ID:	V737	MDLH-07
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	*****	04100164
Antenna height (measured):	0.0000 m	1.9810 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Processing style

Elevation mask: 10°00'00.0"
Auto start processing: Yes
Start automatic ID numbering: AUTO0001
Continuous vectors: No
Antenna model: Automatic
Ephemeris type: Automatic
Frequency: All Frequencies
Processing Interval: Automatic
Force float: No
GIS processing type: Automatic Carrier and Code Processing

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

V737 - BLB-B (04:44:51-05:32:13) (S2)

Baseline observation: [V737 --- BLB-B \(B2\)](#)
Processed: 26-07-2025 07:22:42
Solution type: Fixed
Frequency used: Multiple Frequencies
Horizontal precision: 0.0055 m
Vertical precision: 0.0086 m
RMS: 0.0310 m
Maximum PDOP: 1.710
Ephemeris used: Broadcast
Antenna model: NGS Absolute
Processing start time: 23-07-2025 04:45:00 (GPS Time)
Processing stop time: 23-07-2025 05:32:10 (GPS Time)
Processing duration: 00:47:10
Processing interval: 10 seconds
Processing mode: Uncombined Mode

Vector Components (Mark to Mark)

From:	V737				
Grid		Local		Global	
Easting	476007.836 m	Latitude	N24°54'23.55600"	Latitude	N24°54'23.55600"
Northing	2754620.437 m	Longitude	E80°45'44.71600"	Longitude	E80°45'44.71600"
Elevation	431.081 m	Height	371.442 m	Height	371.442 m

To:	BLB-B				
Grid		Local		Global	
Easting	475127.108 m	Latitude	N24°54'21.19425"	Latitude	N24°54'21.19425"
Northing	2754549.361 m	Longitude	E80°45'13.32420"	Longitude	E80°45'13.32420"
Elevation	433.743 m	Height	374.111 m	Height	374.111 m

Vector					
ΔEasting	-880.7282 m	NS Fwd Azimuth	265°17'09.9"	ΔX	874.8657 m
ΔNorthing	-71.0762 m	Ellipsoid Dist.	883.9386 m	ΔY	-108.8931 m
ΔElevation	2.662 m	ΔHeight	2.6694 m	ΔZ	-64.7920 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0036 m	σ NS fwd Azimuth	0°00'00.9"	σ ΔX	0.0038 m
σ ΔNorthing	0.0039 m	σ Ellipsoid Dist.	0.0036 m	σ ΔY	0.0073 m
σ ΔElevation	0.0086 m	σ ΔHeight	0.0086 m	σ ΔZ	0.0058 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000143204		
Y	0.0000070330	0.0000535103	
Z	0.0000053011	0.0000288457	0.0000338694

Occupations

	From	To
Point ID:	V737	BLB-B
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9810 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Project file data		Coordinate System	
Name:		Name:	World wide/UTM
Size:		Zone:	44 North
Modified:		Datum:	WGS 1984
Time zone:		Global reference datum:	WGS 1984
Reference number:		Global reference epoch:	
Description:		Geoid:	EGM96 (Global)
Comment 1:		Vertical datum:	
Comment 2:		Calibrated site:	
Comment 3:			

Baseline Processing Report

Processing Summary

Observation	From	To	Solution Type	H. Prec.	V. Prec.	Geodetic	Ellipsoid	ΔHeight
V739 --- BLB-A (B1)	V739	BLB-A	Fixed	0.0095	0.0148	243°38'09.9"	4016.8200	-68.8084
V739 --- MDLH-01A (B2)	V739	MDLH-01A	Fixed	0.0053	0.0100	194°54'07.2"	4.0139	-59.3624
V739 --- BLB-D (B3)	V739	BLB-D	Fixed	0.0047	0.0132	146°14'09.4"	819.4299	-27.5824
V739 --- BLB-C (B4)	V739	BLB-C	Fixed	0.0030	0.0152	15°18'57.5"	1724.1621	-42.1589

Acceptance Summary

Processed	Passed	Flag	Fail
4	4	0	0

V739 - BLB-A (06:10:18-06:56:31) (S1)

Baseline observation:	V739 --- BLB-A (B1)
Processed:	26-07-2025 07:40:27
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0095 m
Vertical precision:	0.0148 m
RMS:	0.0151 m
Maximum PDOP:	2.814
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	24-07-2025 06:34:20 (GPS Time)
Processing stop time:	24-07-2025 06:56:30 (GPS Time)
Processing duration:	00:22:10
Processing interval:	10 seconds
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From: V739					
Grid		Local		Global	
Easting	479478.928 m	Latitude	N24°54'39.29100"	Latitude	N24°54'39.29100"
Northing	2755098.787 m	Longitude	E80°47'48.42900"	Longitude	E80°47'48.42900"
Elevation	396.174 m	Height	336.503 m	Height	336.503 m
To: BLB-A					
Grid		Local		Global	
Easting	475878.650 m	Latitude	N24°53'41.30486"	Latitude	N24°53'41.30486"

Northing	2753321.112 m	Longitude	E80°45'40.19204"	Longitude	E80°45'40.19204"
Elevation	327.305 m	Height	267.695 m	Height	267.695 m

Vector					
ΔEasting	-3600.2785 m	NS Fwd Azimuth	243°38'09.9"	ΔX	3662.8623 m
ΔNorthing	-1777.6759 m	Ellipsoid Dist.	4016.8200 m	ΔY	103.3136 m
ΔElevation	-68.870 m	ΔHeight	-68.8084 m	ΔZ	-1647.3835 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0055 m	σ NS fwd Azimuth	0°00'00.3"	σ ΔX	0.0063 m
σ ΔNorthing	0.0067 m	σ Ellipsoid Dist.	0.0057 m	σ ΔY	0.0137 m
σ ΔElevation	0.0148 m	σ ΔHeight	0.0148 m	σ ΔZ	0.0081 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000397751		
Y	0.0000432212	0.0001887308	
Z	0.0000177295	0.0000562754	0.0000657675



Occupations

	From	To
Point ID:	V739	BLB-A
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9820 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Processing style

Elevation mask:	10°00'00.0"
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	All Frequencies
Processing Interval:	Automatic
Force float:	No
GIS processing type:	Automatic Carrier and Code Processing

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

V739 - MDLH-01A (05:22:58-05:39:13) (S2)

Baseline observation:	V739 --- MDLH-01A (B2)
Processed:	26-07-2025 07:40:28
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0053 m
Vertical precision:	0.0100 m
RMS:	0.0213 m
Maximum PDOP:	1.780
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	24-07-2025 05:22:58 (GPS Time)
Processing stop time:	24-07-2025 05:39:13 (GPS Time)
Processing duration:	00:16:15
Processing interval:	1 second
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:	V739				
Grid		Local		Global	
Easting	479478.928 m	Latitude	N24°54'39.29100"	Latitude	N24°54'39.29100"
Northing	2755098.787 m	Longitude	E80°47'48.42900"	Longitude	E80°47'48.42900"
Elevation	396.174 m	Height	336.503 m	Height	336.503 m

To:		MDLH-01A			
Grid		Local		Global	
Easting	479477.891 m	Latitude	N24°54'39.16494"	Latitude	N24°54'39.16494"
Northing	2755094.912 m	Longitude	E80°47'48.39221"	Longitude	E80°47'48.39221"
Elevation	336.812 m	Height	277.141 m	Height	277.141 m

Vector					
Δ Easting	-1.0376 m	NS Fwd Azimuth	194°54'07.2"	Δ X	-7.3306 m
Δ Northing	-3.8759 m	Ellipsoid Dist.	4.0139 m	Δ Y	-51.6987 m
Δ Elevation	-59.363 m	Δ Height	-59.3624 m	Δ Z	-28.5222 m

Standard Errors

Vector errors:					
σ Δ Easting	0.0036 m	σ NS fwd Azimuth	0°03'01.3"	σ Δ X	0.0039 m
σ Δ Northing	0.0036 m	σ Ellipsoid Dist.	0.0037 m	σ Δ Y	0.0093 m
σ Δ Elevation	0.0100 m	σ Δ Height	0.0100 m	σ Δ Z	0.0050 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000149444		
Y	0.0000115627	0.0000862083	
Z	0.0000033737	0.0000306826	0.0000251714



Occupations

	From	To
Point ID:	V739	MDLH-01A
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9820 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Processing style

Elevation mask:	10°00'00.0"
Auto start processing:	Yes
Start automatic ID numbering:	AUTO0001
Continuous vectors:	No
Antenna model:	Automatic
Ephemeris type:	Automatic
Frequency:	All Frequencies
Processing Interval:	Automatic
Force float:	No
GIS processing type:	Automatic Carrier and Code Processing

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

V739 - BLB-D (04:14:47-05:01:03) (S3)

Baseline observation:	V739 --- BLB-D (B3)
Processed:	26-07-2025 07:40:27
Solution type:	Fixed
Frequency used:	Multiple Frequencies
Horizontal precision:	0.0047 m
Vertical precision:	0.0132 m
RMS:	0.0218 m
Maximum PDOP:	2.027
Ephemeris used:	Broadcast
Antenna model:	NGS Absolute
Processing start time:	24-07-2025 04:14:50 (GPS Time)
Processing stop time:	24-07-2025 05:01:00 (GPS Time)
Processing duration:	00:46:10
Processing interval:	10 seconds
Processing mode:	Uncombined Mode

Vector Components (Mark to Mark)

From:	V739				
Grid		Local		Global	
Easting	479478.928 m	Latitude	N24°54'39.29100"	Latitude	N24°54'39.29100"
Northing	2755098.787 m	Longitude	E80°47'48.42900"	Longitude	E80°47'48.42900"
Elevation	396.174 m	Height	336.503 m	Height	336.503 m

To:		BLB-D			
Grid		Local		Global	
Easting	479933.149 m	Latitude	N24°54'17.15158"	Latitude	N24°54'17.15158"
Northing	2754417.158 m	Longitude	E80°48'04.65726"	Longitude	E80°48'04.65726"
Elevation	368.580 m	Height	308.921 m	Height	308.921 m

Vector					
Δ Easting	454.2205 m	NS Fwd Azimuth	146°14'09.4"	Δ X	-407.6923 m
Δ Northing	-681.6296 m	Ellipsoid Dist.	819.4299 m	Δ Y	331.3556 m
Δ Elevation	-27.595 m	Δ Height	-27.5824 m	Δ Z	-629.5115 m

Standard Errors

Vector errors:					
σ Δ Easting	0.0022 m	σ NS fwd Azimuth	0°00'00.6"	σ Δ X	0.0031 m
σ Δ Northing	0.0033 m	σ Ellipsoid Dist.	0.0032 m	σ Δ Y	0.0110 m
σ Δ Elevation	0.0132 m	σ Δ Height	0.0132 m	σ Δ Z	0.0076 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000093993		
Y	0.0000242021	0.0001217719	
Z	0.0000165406	0.0000763081	0.0000581106



Occupations

	From	To
Point ID:	V739	BLB-D
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9820 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount

Processing style

Elevation mask: 10°00'00.0"
Auto start processing: Yes
Start automatic ID numbering: AUTO0001
Continuous vectors: No
Antenna model: Automatic
Ephemeris type: Automatic
Frequency: All Frequencies
Processing Interval: Automatic
Force float: No
GIS processing type: Automatic Carrier and Code Processing

Acceptance Criteria

Vector Component	Flag 	Fail 
Horizontal Precision >	0.0500 m + 1.000 ppm	0.1000 m + 1.000 ppm
Vertical Precision >	0.1000 m + 1.000 ppm	0.2000 m + 1.000 ppm

V739 - BLB-C (02:53:09-03:39:26) (S4)

Baseline observation: [V739 --- BLB-C \(B4\)](#)
Processed: 26-07-2025 07:40:27
Solution type: Fixed
Frequency used: Multiple Frequencies
Horizontal precision: 0.0030 m
Vertical precision: 0.0152 m
RMS: 0.0237 m
Maximum PDOP: 1.854
Ephemeris used: Broadcast
Antenna model: NGS Absolute
Processing start time: 24-07-2025 02:53:10 (GPS Time)
Processing stop time: 24-07-2025 03:39:20 (GPS Time)
Processing duration: 00:46:10
Processing interval: 10 seconds
Processing mode: Uncombined Mode

Vector Components (Mark to Mark)

From:	V739				
	Grid		Local		Global
Easting	479478.928 m	Latitude	N24°54'39.29100"	Latitude	N24°54'39.29100"
Northing	2755098.787 m	Longitude	E80°47'48.42900"	Longitude	E80°47'48.42900"
Elevation	396.174 m	Height	336.503 m	Height	336.503 m

To:	BLB-C				
	Grid		Local		Global
Easting	479936.655 m	Latitude	N24°55'33.33468"	Latitude	N24°55'33.33468"
Northing	2756760.375 m	Longitude	E80°48'04.66022"	Longitude	E80°48'04.66022"
Elevation	354.055 m	Height	294.344 m	Height	294.344 m

Vector					
ΔEasting	457.7270 m	NS Fwd Azimuth	15°18'57.5"	ΔX	-567.7619 m
ΔNorthing	1661.5877 m	Ellipsoid Dist.	1724.1621 m	ΔY	-656.5663 m
ΔElevation	-42.119 m	ΔHeight	-42.1589 m	ΔZ	1490.4278 m

Standard Errors

Vector errors:					
σ ΔEasting	0.0019 m	σ NS fwd Azimuth	0°00'00.2"	σ ΔX	0.0026 m
σ ΔNorthing	0.0018 m	σ Ellipsoid Dist.	0.0017 m	σ ΔY	0.0139 m
σ ΔElevation	0.0152 m	σ ΔHeight	0.0152 m	σ ΔZ	0.0061 m

Aposteriori Covariance Matrix (Meter²)

	X	Y	Z
X	0.0000066659		
Y	0.0000246643	0.0001941958	
Z	0.0000114807	0.0000810459	0.0000375003

Occupations

	From	To
Point ID:	V739	BLB-C
Data file:	C:\Users\LENOVO\Dropbox\PC\Documents\Tri	C:\Users\LENOVO\Dropbox\PC\Documents\Tri
Receiver type:	Alloy	Catalyst DA2
Receiver serial number:	6050R40056	6504100164
Antenna type:	GNSS-Ti Choke Ring v2 w/SCIS Dome	DA2
Antenna serial number:	-----	04100164
Antenna height (measured):	0.0000 m	1.9820 m
Antenna method:	Bottom of antenna mount	Bottom of antenna mount