

# Discharge Measurement Summary

**Site name** WCanal8  
**Site number** 01  
**Operator(s)** VAllen  
**File name** WestCanal\_20230621\_1004.ft  
**Comment**

<b>Start time</b>	6/21/2023 10:04 AM	<b>Sensor type</b>	Top Setting
<b>End time</b>	6/21/2023 11:16 AM	<b>Handheld serial number</b>	FT2H2219029
<b>Start location latitude</b>	42.810	<b>Probe serial number</b>	FT2P2219014
<b>Start location longitude</b>	-118.871	<b>Probe firmware</b>	1.30
<b>Calculations engine</b>	FlowTracker2	<b>Handheld software</b>	1.7

<b># Stations</b>	<b>Avg interval (s)</b>	<b>Total discharge (m<sup>3</sup>/s)</b>
28	40	0.7864

<b>Total width (m)</b>	<b>Total area (m<sup>2</sup>)</b>	<b>Wetted Perimeter (m)</b>
5.090	3.20567	5.554

<b>Mean SNR (dB)</b>	<b>Mean depth (m)</b>	<b>Mean velocity (m/s)</b>
46	0.630	0.2453

<b>Mean temp (°C)</b>	<b>Max depth (m)</b>	<b>Max velocity (m/s)</b>
8.307	0.844	0.3745

Discharge Uncertainty		
Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.1%	0.9%
Velocity	0.2%	2.4%
Width	0.1%	0.1%
Method	0.8%	
# Stations	1.8%	
Overall	2.2%	2.8%

<b>Discharge equation</b>	Mid Section
<b>Discharge uncertainty</b>	IVE
<b>Discharge reference</b>	Rated

Data Collection Settings	
<b>Salinity</b>	0.000 PSS-78
<b>Temperature</b>	-
<b>Sound speed</b>	-
<b>Mounting correction</b>	0.000 %

## Summary overview

No changes were made to this file  
Quality control warnings



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## Station Warning Settings

**Station discharge OK**

Station discharge < 5.00%

**Station discharge caution**

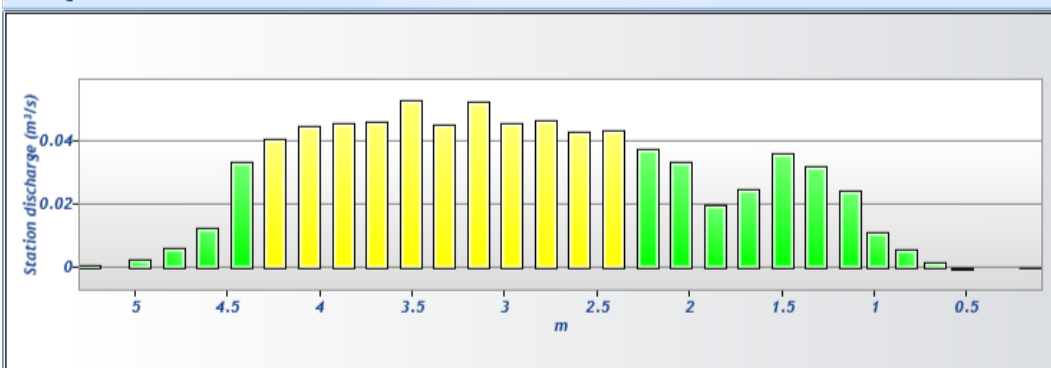
5.00% >= Station discharge < 10.00%

**Station discharge warning**

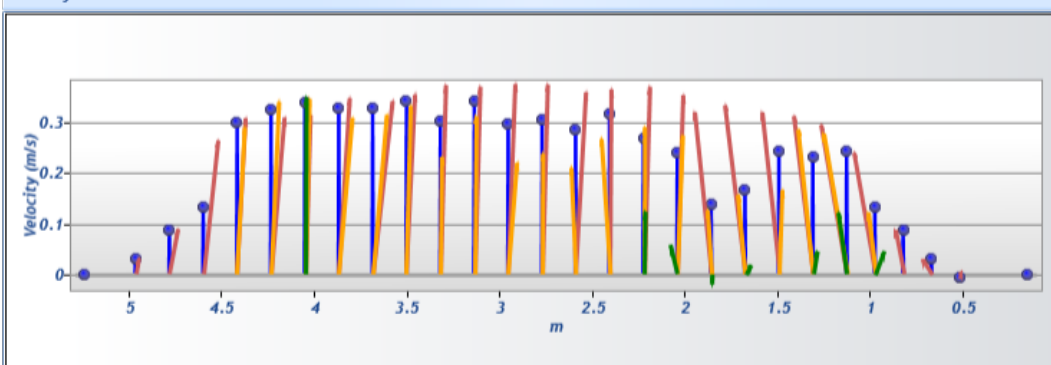
Station discharge >= 10.00%



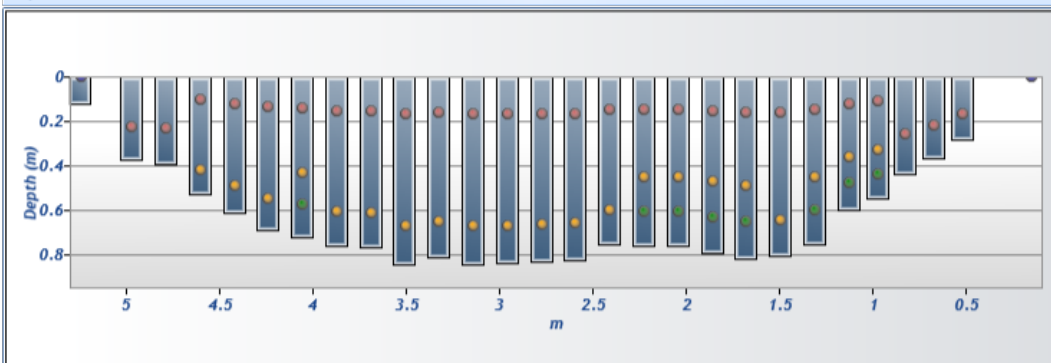
Discharge chart

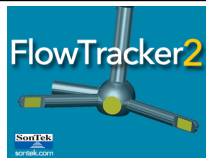


Velocity chart



Depth chart

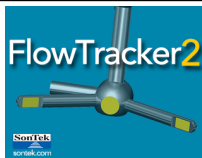




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Measurement results															
St#	Time	Location (m)	Method	Depth (m)	%Depth	Measured Depth (m)	Samples	Velocity (m/s)	Correction	Mean Velocity (m/s)	Area (m <sup>2</sup> )	Flow (m <sup>3</sup> /s)	%Q		
0	10:04 AM	0.152	None	0.000	0.0000	0.000	0	0.0000	1.0000	-0.0066	0.00000	0.0000	0.00	✓	
1	10:04 AM	0.518	0.6	0.280	0.6000	0.168	80	-0.0066	1.0000	-0.0066	0.07265	-0.0005	-0.06	✓	
2	10:08 AM	0.671	0.6	0.363	0.6000	0.218	80	0.0301	1.0000	0.0301	0.05528	0.0017	0.21	✓	
3	10:10 AM	0.823	0.6	0.436	0.6000	0.262	80	0.0871	1.0000	0.0871	0.06643	0.0058	0.74	✓	
4	10:11 AM	0.975	0.2/0.6/0.8	0.546	0.2000	0.109	80	0.2393	1.0000	0.1324	0.08315	0.0110	1.40	✓	
4	10:11 AM	0.975	0.2/0.6/0.8	0.546	0.6000	0.327	80	0.1215	1.0000	0.1324	0.08315	0.0110	1.40	✓	
4	10:11 AM	0.975	0.2/0.6/0.8	0.546	0.8000	0.436	80	0.0472	1.0000	0.1324	0.08315	0.0110	1.40	✓	
5	10:15 AM	1.128	0.2/0.6/0.8	0.600	0.2000	0.120	80	0.2943	1.0000	0.2423	0.10066	0.0244	3.10	✓	
5	10:15 AM	1.128	0.2/0.6/0.8	0.600	0.6000	0.360	80	0.2772	1.0000	0.2423	0.10066	0.0244	3.10	✓	
5	10:15 AM	1.128	0.2/0.6/0.8	0.600	0.8000	0.480	80	0.1207	1.0000	0.2423	0.10066	0.0244	3.10	✓	
6	10:19 AM	1.311	0.2/0.6/0.8	0.753	0.2000	0.151	80	0.3117	1.0000	0.2317	0.13768	0.0319	4.06	✓	
6	10:19 AM	1.311	0.2/0.6/0.8	0.753	0.6000	0.452	80	0.2851	1.0000	0.2317	0.13768	0.0319	4.06	✓	
6	10:19 AM	1.311	0.2/0.6/0.8	0.753	0.8000	0.602	80	0.0449	1.0000	0.2317	0.13768	0.0319	4.06	✓	
7	10:23 AM	1.494	0.2/0.8	0.808	0.2000	0.162	80	0.3191	1.0000	0.2425	0.14772	0.0358	4.56	✓	
7	10:23 AM	1.494	0.2/0.8	0.808	0.8000	0.646	80	0.1660	1.0000	0.2425	0.14772	0.0358	4.56	✓	
8	10:26 AM	1.676	0.2/0.6/0.8	0.820	0.2000	0.164	80	0.3326	1.0000	0.1660	0.14995	0.0249	3.16	✓	
8	10:26 AM	1.676	0.2/0.6/0.8	0.820	0.6000	0.492	80	0.1563	1.0000	0.1660	0.14995	0.0249	3.16	✓	
8	10:26 AM	1.676	0.2/0.6/0.8	0.820	0.8000	0.656	80	0.0187	1.0000	0.1660	0.14995	0.0249	3.16	✓	
9	10:29 AM	1.859	0.2/0.6/0.8	0.789	0.2000	0.158	80	0.3194	1.0000	0.1378	0.14437	0.0199	2.53	✓	
9	10:29 AM	1.859	0.2/0.6/0.8	0.789	0.6000	0.474	80	0.1258	1.0000	0.1378	0.14437	0.0199	2.53	✓	
9	10:29 AM	1.859	0.2/0.6/0.8	0.789	0.8000	0.632	80	-0.0200	1.0000	0.1378	0.14437	0.0199	2.53	✓	
10	10:33 AM	2.042	0.2/0.6/0.8	0.759	0.2000	0.152	80	0.3528	1.0000	0.2392	0.13880	0.0332	4.22	✓	
10	10:33 AM	2.042	0.2/0.6/0.8	0.759	0.6000	0.455	80	0.2733	1.0000	0.2392	0.13880	0.0332	4.22	✓	
10	10:33 AM	2.042	0.2/0.6/0.8	0.759	0.8000	0.607	80	0.0575	1.0000	0.2392	0.13880	0.0332	4.22	✓	
11	10:37 AM	2.225	0.2/0.6/0.8	0.759	0.2000	0.152	80	0.3691	1.0000	0.2683	0.13880	0.0372	4.73	✓	
11	10:37 AM	2.225	0.2/0.6/0.8	0.759	0.6000	0.455	80	0.2902	1.0000	0.2683	0.13880	0.0372	4.73	✓	
11	10:37 AM	2.225	0.2/0.6/0.8	0.759	0.8000	0.607	80	0.1236	1.0000	0.2683	0.13880	0.0372	4.73	✓	
12	10:40 AM	2.408	0.2/0.8	0.753	0.2000	0.151	80	0.3641	1.0000	0.3153	0.13768	0.0434	5.52	✓	
12	10:40 AM	2.408	0.2/0.8	0.753	0.8000	0.602	80	0.2665	1.0000	0.3153	0.13768	0.0434	5.52	✓	
13	10:43 AM	2.591	0.2/0.8	0.826	0.2000	0.165	80	0.3585	1.0000	0.2842	0.15106	0.0429	5.46	✓	
13	10:43 AM	2.591	0.2/0.8	0.826	0.8000	0.661	80	0.2099	1.0000	0.2842	0.15106	0.0429	5.46	✓	
14	10:45 AM	2.774	0.2/0.8	0.832	0.2000	0.166	80	0.3736	1.0000	0.3058	0.15218	0.0465	5.92	✓	
14	10:45 AM	2.774	0.2/0.8	0.832	0.8000	0.666	80	0.2380	1.0000	0.3058	0.15218	0.0465	5.92	✓	
15	10:48 AM	2.957	0.2/0.8	0.838	0.2000	0.168	80	0.3745	1.0000	0.2973	0.15329	0.0456	5.80	✓	
15	10:48 AM	2.957	0.2/0.8	0.838	0.8000	0.671	80	0.2201	1.0000	0.2973	0.15329	0.0456	5.80	✓	
16	10:50 AM	3.139	0.2/0.8	0.841	0.2000	0.168	80	0.3692	1.0000	0.3402	0.15385	0.0523	6.66	✓	
16	10:50 AM	3.139	0.2/0.8	0.841	0.8000	0.673	80	0.3113	1.0000	0.3402	0.15385	0.0523	6.66	✓	
17	10:53 AM	3.322	0.2/0.8	0.814	0.2000	0.163	80	0.3722	1.0000	0.3019	0.14883	0.0449	5.71	✓	
17	10:53 AM	3.322	0.2/0.8	0.814	0.8000	0.651	80	0.2316	1.0000	0.3019	0.14883	0.0449	5.71	✓	
18	10:55 AM	3.505	0.2/0.8	0.844	0.2000	0.169	80	0.3537	1.0000	0.3423	0.15440	0.0529	6.72	✓	
18	10:55 AM	3.505	0.2/0.8	0.844	0.8000	0.675	80	0.3310	1.0000	0.3423	0.15440	0.0529	6.72	✓	
19	10:57 AM	3.688	0.2/0.8	0.768	0.2000	0.154	80	0.3410	1.0000	0.3277	0.14047	0.0460	5.85	✓	
19	10:57 AM	3.688	0.2/0.8	0.768	0.8000	0.614	80	0.3143	1.0000	0.3277	0.14047	0.0460	5.85	✓	
20	11:00 AM	3.871	0.2/0.8	0.762	0.2000	0.152	80	0.3468	1.0000	0.3275	0.13935	0.0456	5.80	✓	
21	11:00 AM	3.871	0.2/0.8	0.762	0.8000	0.610	80	0.3081	1.0000	0.3275	0.13935	0.0456	5.80	✓	
21	11:02 AM	4.054	0.2/0.6/0.8	0.719	0.2000	0.144	80	0.3135	1.0000	0.3381	0.13155	0.0445	5.66	✓	
21	11:02 AM	4.054	0.2/0.6/0.8	0.719	0.6000	0.432	80	0.3456	1.0000	0.3381	0.13155	0.0445	5.66	✓	
21	11:02 AM	4.054	0.2/0.6/0.8	0.719	0.8000	0.575	80	0.3478	1.0000	0.3381	0.13155	0.0445	5.66	✓	
22	11:05 AM	4.237	0.2/0.8	0.686	0.2000	0.137	80	0.3090	1.0000	0.3244	0.12542	0.0407	5.17	✓	
22	11:05 AM	4.237	0.2/0.8	0.686	0.8000	0.549	80	0.3397	1.0000	0.3244	0.12542	0.0407	5.17	✓	
23	11:08 AM	4.420	0.2/0.8	0.613	0.2000	0.123	80	0.3074	1.0000	0.2981	0.11204	0.0334	4.25	✓	
23	11:08 AM	4.420	0.2/0.8	0.613	0.8000	0.490	80	0.2889	1.0000	0.2981	0.11204	0.0334	4.25	✓	
24	11:10 AM	4.602	0.2/0.8	0.527	0.2000	0.105	80	0.2639	1.0000	0.1318	0.09643	0.0127	1.62	✓	
24	11:10 AM	4.602	0.2/0.8	0.527	0.8000	0.422	80	-0.0004	1.0000	0.1318	0.09643	0.0127	1.62	✓	
25	11:13 AM	4.785	0.6	0.393	0.6000	0.236	80	0.0887	1.0000	0.0887	0.07191	0.0064	0.81	✓	
26	11:14 AM	4.968	0.6	0.372	0.6000	0.223	80	0.0315	1.0000	0.0315	0.08501	0.0027	0.34	✓	
27	11:16 AM	5.243	None	0.122	0.0000	0.000	0	0.0000	1.0000	0.0315	0.01672	0.0005	0.07	✓	



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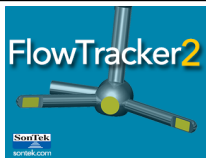
**Site name** WCanal8  
**Site number** 01  
**Operator(s)** VAllen  
**File name** WestCanal\_20230621\_1004.ft  
**Comment**

## Quality Control Settings

**Maximum depth change** 50.00%  
**Maximum spacing change** 100.00%  
**SNR threshold** 10 dB  
**Standard error threshold** 0.0100 m/s  
**Spike threshold** 10.00%  
**Maximum velocity angle** 20.0 deg  
**Maximum tilt angle** 5.0 deg

## Quality control warnings

St#	Time	Location (m)	Method	Depth (m)	%Depth	Measured Depth (m)	Warnings
2	10:08 AM	0.671	0.6	0.363	0.6000	0.218	Velocity Angle > QC
3	10:10 AM	0.823	0.6	0.436	0.6000	0.262	Stn Spacing > QC, Velocity Angle > QC
4	10:11 AM	0.975	0.2/0.6/0.8	0.546	0.2000	0.109	Velocity Angle > QC
4	10:11 AM	0.975	0.2/0.6/0.8	0.546	0.6000	0.327	Velocity Angle > QC
4	10:11 AM	0.975	0.2/0.6/0.8	0.546	0.8000	0.436	Velocity Angle > QC
5	10:15 AM	1.128	0.2/0.6/0.8	0.600	0.2000	0.120	Velocity Angle > QC
5	10:15 AM	1.128	0.2/0.6/0.8	0.600	0.6000	0.360	Velocity Angle > QC
5	10:15 AM	1.128	0.2/0.6/0.8	0.600	0.8000	0.480	Velocity Angle > QC
6	10:19 AM	1.311	0.2/0.6/0.8	0.753	0.2000	0.151	Velocity Angle > QC
6	10:19 AM	1.311	0.2/0.6/0.8	0.753	0.6000	0.452	Velocity Angle > QC
6	10:19 AM	1.311	0.2/0.6/0.8	0.753	0.8000	0.602	Velocity Angle > QC
8	10:26 AM	1.676	0.2/0.6/0.8	0.820	0.2000	0.164	Standard Error > QC
8	10:26 AM	1.676	0.2/0.6/0.8	0.820	0.6000	0.492	Standard Error > QC
8	10:26 AM	1.676	0.2/0.6/0.8	0.820	0.8000	0.656	Standard Error > QC
10	10:33 AM	2.042	0.2/0.6/0.8	0.759	0.2000	0.152	Velocity Angle > QC
10	10:33 AM	2.042	0.2/0.6/0.8	0.759	0.6000	0.455	Velocity Angle > QC
10	10:33 AM	2.042	0.2/0.6/0.8	0.759	0.8000	0.607	Velocity Angle > QC
15	10:48 AM	2.957	0.2/0.8	0.838	0.2000	0.168	Boundary Interference, Beam SNRs Not Similar, SNR Threshold Variation
15	10:48 AM	2.957	0.2/0.8	0.838	0.8000	0.671	Boundary Interference, Beam SNRs Not Similar, SNR Threshold Variation
24	11:10 AM	4.602	0.2/0.8	0.527	0.2000	0.105	Large SNR Variation, High % Spikes
24	11:10 AM	4.602	0.2/0.8	0.527	0.8000	0.422	Large SNR Variation, High % Spikes
25	11:13 AM	4.785	0.6	0.393	0.6000	0.236	Velocity Angle > QC
26	11:14 AM	4.968	0.6	0.372	0.6000	0.223	Velocity Angle > QC
27	11:16 AM	5.243	None	0.122	0.0000	0.000	Water Depth > QC



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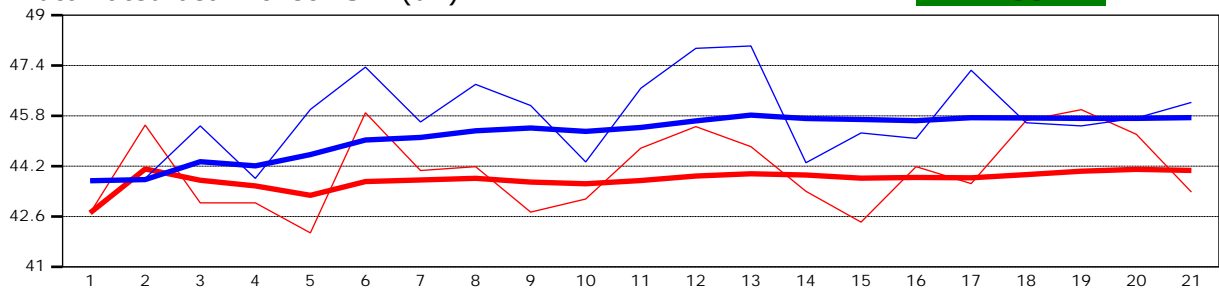
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**File name** WestCanal\_20230621\_1004.ft  
**Comment**

<b>Beam 1</b>	
<b>Beam 2</b>	

Automated beam check Start time 6/21/2023 10:03:45 AM

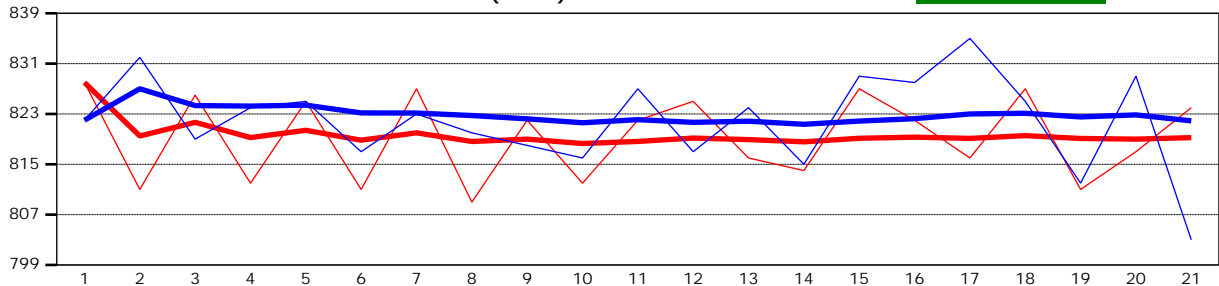
Automated beam check SNR(dB)

PASS



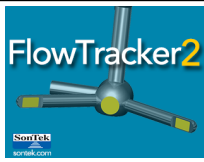
Automated beam check Noise level(cnts)

PASS



## Automated beam check Quality control warnings

No quality control warnings



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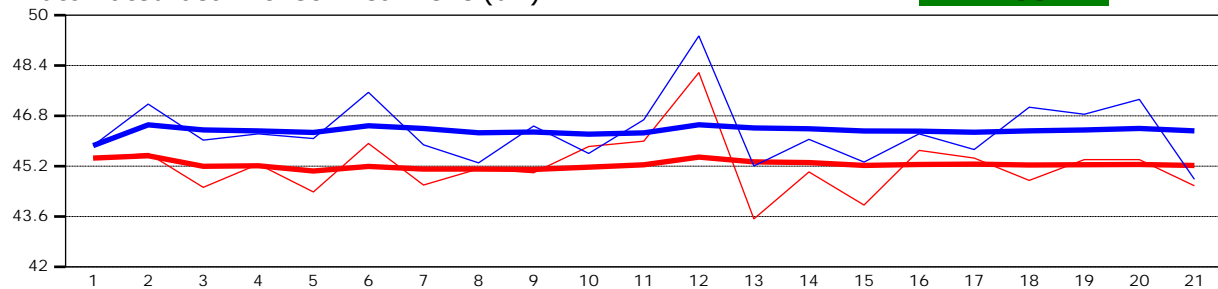
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<b>Beam 1</b>	
<b>Beam 2</b>	

Automated beam check Start time 6/21/2023 10:03:45 AM

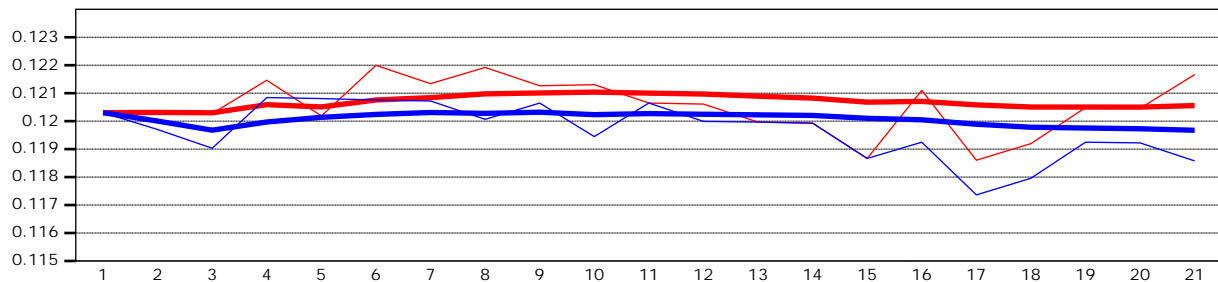
Automated beam check Peak level(dB)

PASS



Automated beam check Peak position(m)

PASS



## Automated beam check Quality control warnings

No quality control warnings