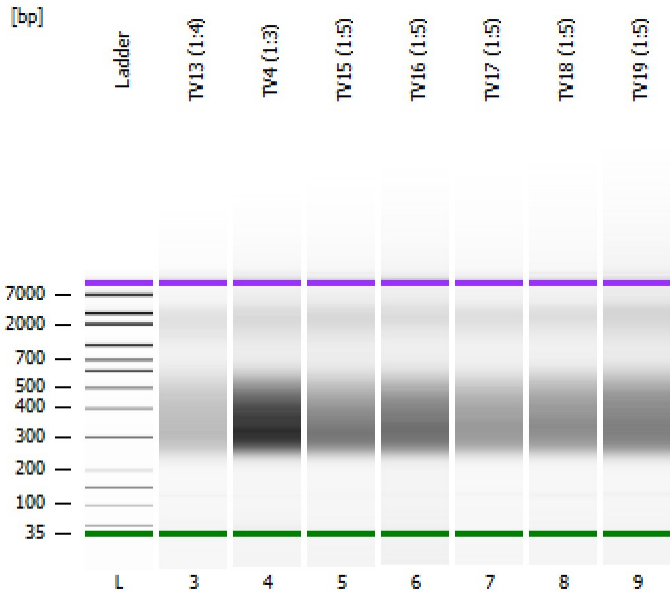


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
Modified: 4/3/2024 9:59:31 AM

Electrophoresis File Run Summary



Instrument Information:

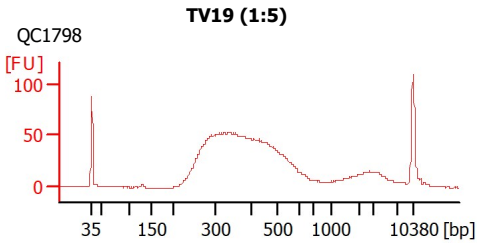
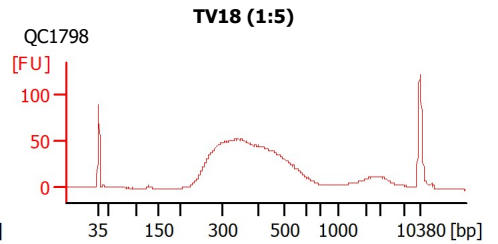
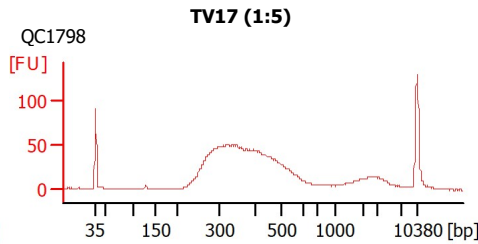
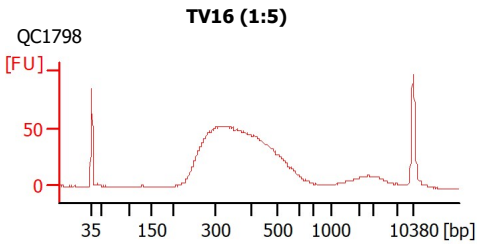
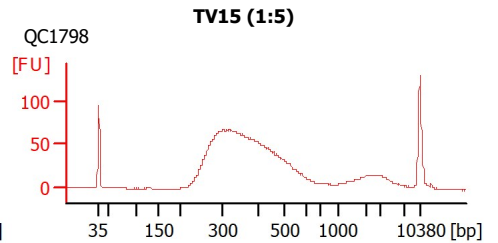
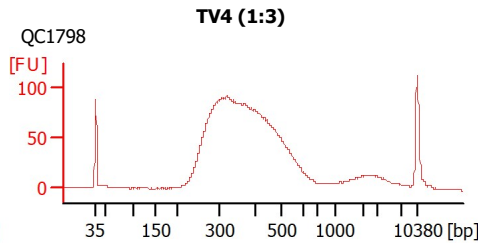
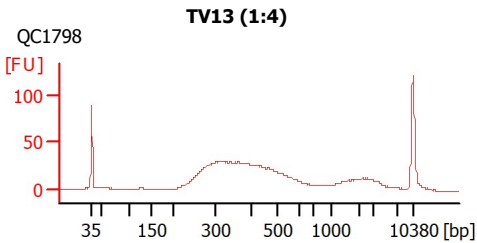
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
TV13 (1:4)	QC1798	<input type="checkbox"/>	✓			
TV4 (1:3)	QC1798	<input type="checkbox"/>	✓			
TV15 (1:5)	QC1798	<input type="checkbox"/>	✓			
TV16 (1:5)	QC1798	<input type="checkbox"/>	✓			
TV17 (1:5)	QC1798	<input type="checkbox"/>	✓			
TV18 (1:5)	QC1798	<input type="checkbox"/>	✓			
TV19 (1:5)	QC1798	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
Modified: 4/3/2024 9:59:31 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

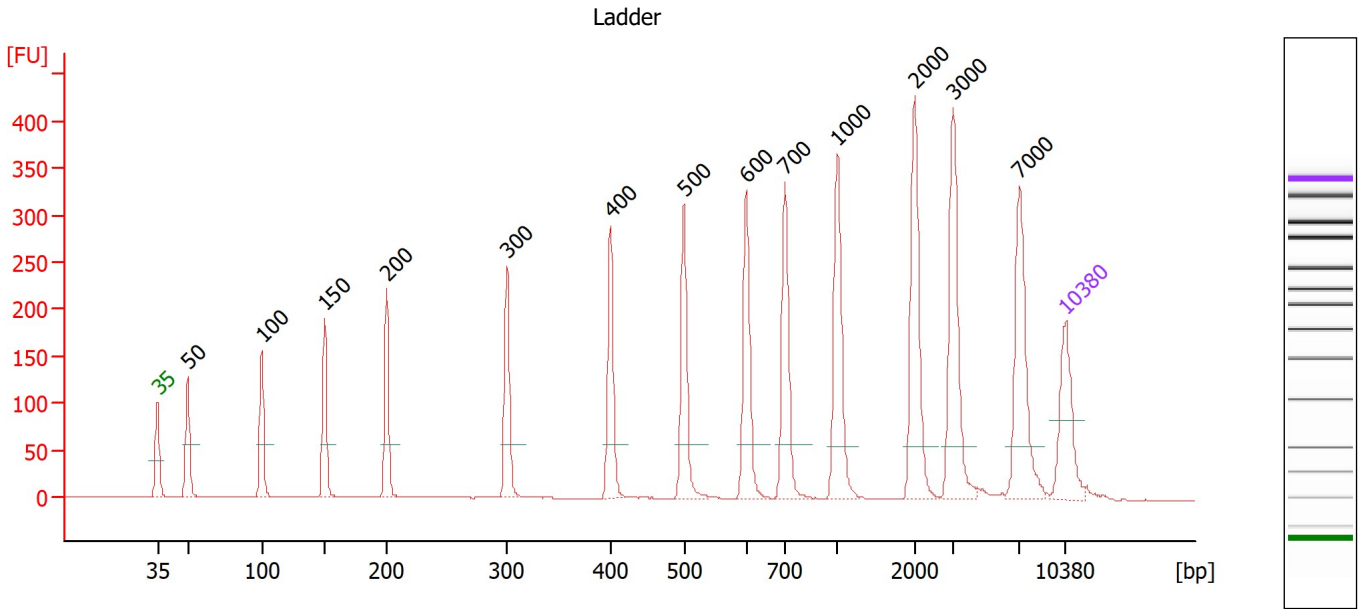
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

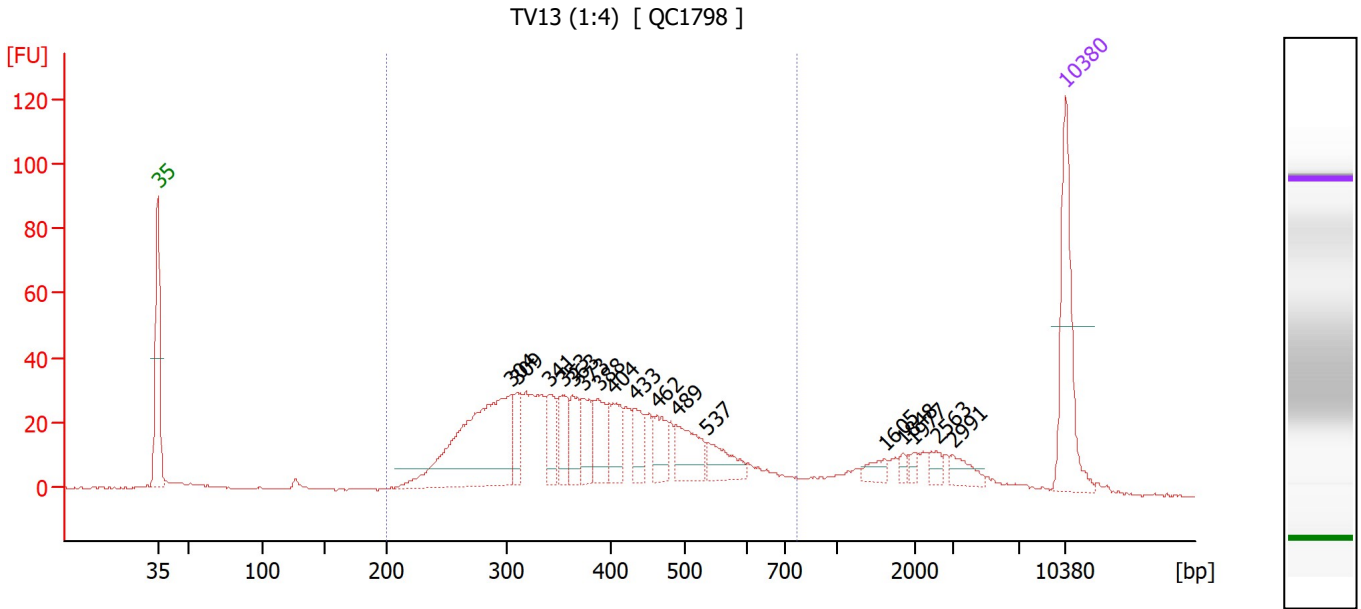
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : TV13 (1:4)

Number of peaks found: 17 Corr. Area 1: 819.9
 Noise: 0.2

Peak table for sample 3 : TV13 (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	304	221.38	1,104.9	
3	309	29.80	146.1	
4	341	36.84	163.9	
5	353	33.39	143.1	
6	363	32.12	134.0	
7	373	30.74	124.9	
8	388	42.30	165.2	
9	404	34.68	130.2	
10	433	26.66	93.4	
11	462	28.06	92.0	
12	489	43.38	134.3	
13	537	31.25	88.2	
14	1,605	9.90	9.3	
15	1,848	4.53	3.7	
16	1,977	5.05	3.9	
17	2,563	7.97	4.7	
18	2,991	13.25	6.7	
19	10,380	75.00	10.9	Upper Marker

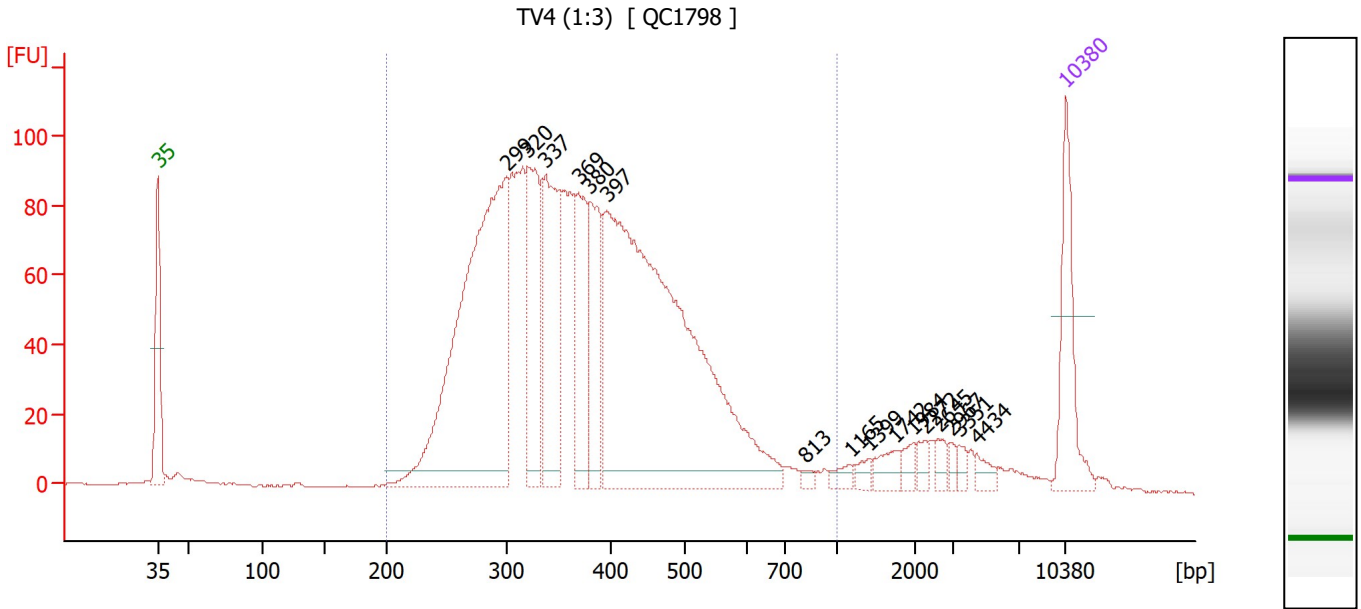
Region table for sample 3 : TV13 (1:4)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	772	819.9	81	392	27.4	888.29	3,799.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : TV4 (1:3)

Number of peaks found: 16 Corr. Area 1: 2,252.0
 Noise: 0.3

Peak table for sample 4 : TV4 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	299	644.59	3,264.6	
3	320	164.03	777.4	
4	337	205.29	922.4	
5	369	122.31	502.0	
6	380	115.47	460.6	
7	397	828.23	3,163.1	
8	813	5.53	10.3	
9	1,165	10.41	13.5	
10	1,399	8.56	9.3	
11	1,742	18.30	15.9	
12	1,984	10.65	8.1	
13	2,272	9.63	6.4	
14	2,645	10.30	5.9	
15	2,967	6.55	3.3	
16	3,351	6.97	3.2	
17	4,434	10.21	3.5	
18	10,380	75.00	10.9	Upper Marker

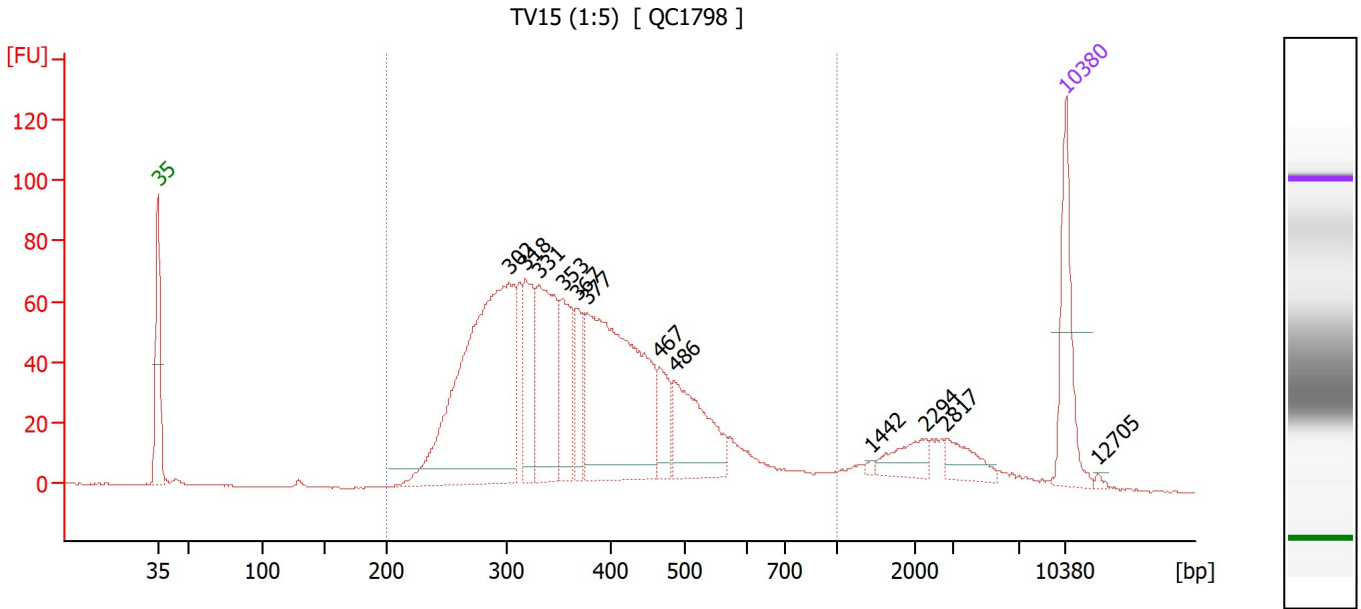
Region table for sample 4 : TV4 (1:3)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,252.0	91	387	28.5	2,484.72	10,702.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : TV15 (1:5)

Number of peaks found: 12 Corr. Area 1: 1,606.9
 Noise: 0.2

Peak table for sample 5 : TV15 (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	302	526.35	2,637.6	
3	318	107.44	512.2	
4	331	179.10	820.7	
5	353	92.86	398.4	
6	367	53.47	220.5	
7	377	372.11	1,495.6	
8	467	44.60	144.8	
9	486	121.56	378.6	
10	1,442	2.66	2.8	
11	2,294	29.28	19.3	
12	2,817	27.09	14.6	
13	10,380	75.00	10.9	Upper Marker
14	12,705	0.00	0.0	

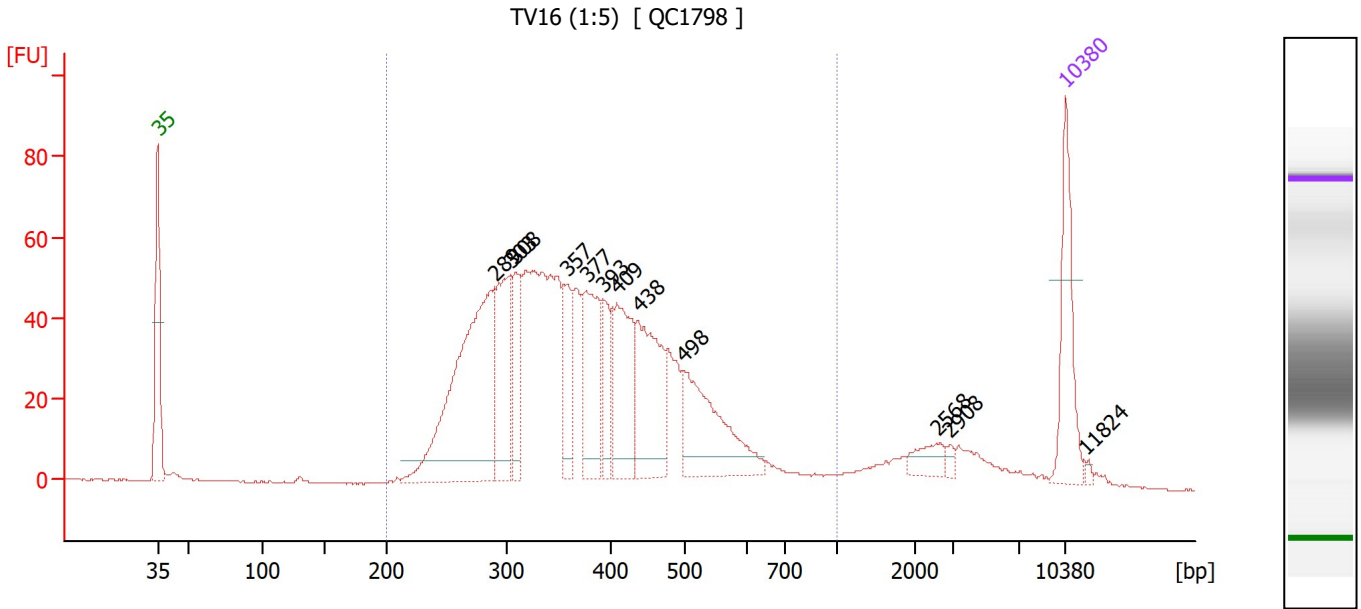
Region table for sample 5 : TV15 (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,606.9	88	387	30.4	1,732.84	7,516.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TV16 (1:5)

Number of peaks found: 12 Corr. Area 1: 1,298.5
 Noise: 0.2

Peak table for sample 6 : TV16 (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	360.10	1,886.5	
3	303	127.31	637.5	
4	308	73.47	361.6	
5	357	61.10	259.0	
6	377	120.01	482.0	
7	393	51.05	196.8	
8	409	120.38	446.1	
9	438	138.09	478.2	
10	498	143.03	434.7	
11	2,568	19.88	11.7	
12	2,908	5.01	2.6	
13	10,380	75.00	10.9	Upper Marker
14	11,824	0.00	0.0	

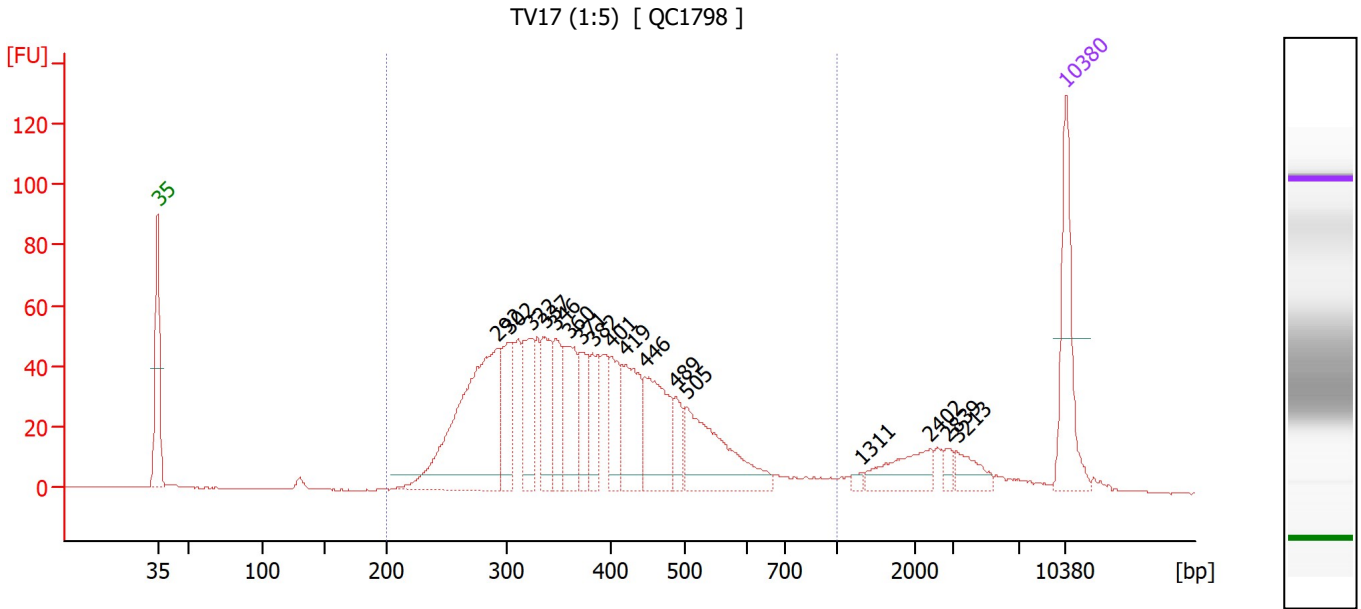
Region table for sample 6 : TV16 (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,298.5	89	387	28.8	1,804.29	7,777.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : TV17 (1:5)

Number of peaks found: 17 Corr. Area 1: 1,239.5
 Noise: 0.3

Peak table for sample 7 : TV17 (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	292	275.90	1,433.6	
3	302	76.68	384.4	
4	322	67.60	317.7	
5	337	61.58	277.3	
6	346	55.51	243.1	
7	360	75.42	317.4	
8	371	42.03	171.7	
9	382	46.71	185.1	
10	401	51.68	195.5	
11	419	78.78	284.6	
12	446	93.81	318.9	
13	489	25.65	79.5	
14	505	118.02	354.4	
15	1,311	4.12	4.8	
16	2,402	37.87	23.9	
17	2,839	7.52	4.0	
18	3,213	19.69	9.3	
19	10,380	75.00	10.9	Upper Marker

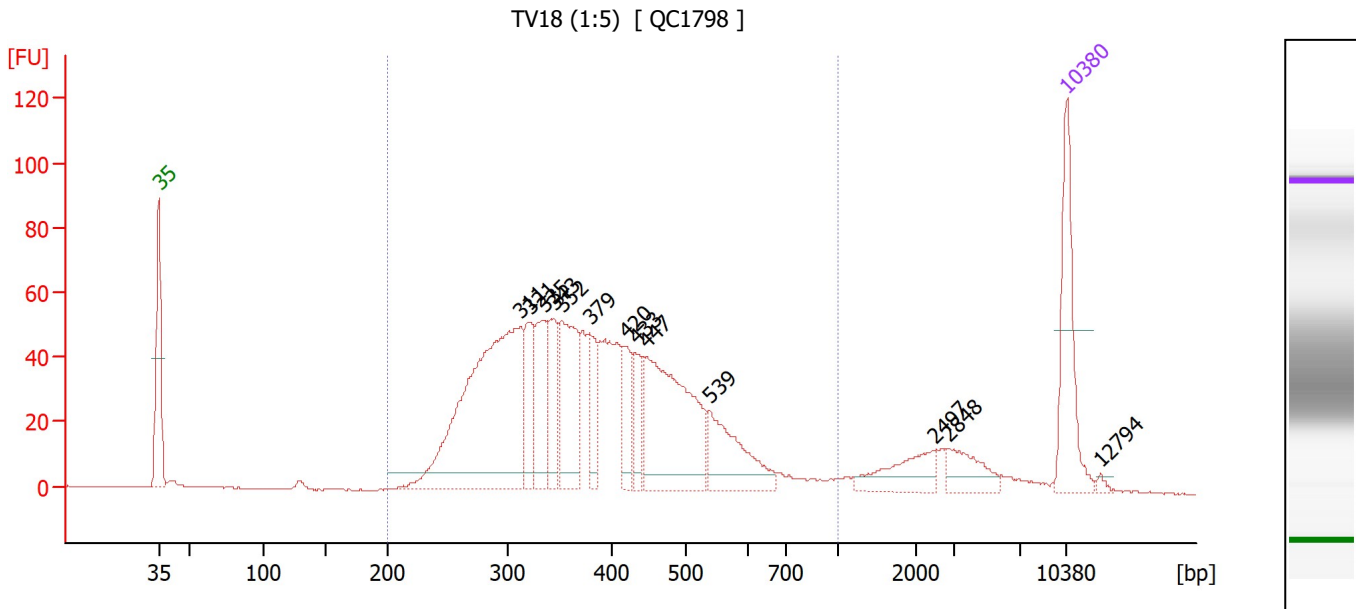
Region table for sample 7 : TV17 (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,239.5	87	392	29.8	1,273.12	5,443.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : TV18 (1:5)

Number of peaks found: 13 Corr. Area 1: 1,301.2
 Noise: 0.2

Peak table for sample 8 : TV18 (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	311	378.48	1,841.6	
3	321	65.38	308.7	
4	335	72.46	328.2	
5	343	55.65	245.5	
6	352	109.50	471.8	
7	379	42.92	171.6	
8	420	40.37	145.6	
9	433	35.53	124.2	
10	447	194.26	658.8	
11	539	80.78	227.2	
12	2,497	37.49	22.7	
13	2,848	28.61	15.2	
14	10,380	75.00	10.9	Upper Marker
15	12,794	0.00	0.0	

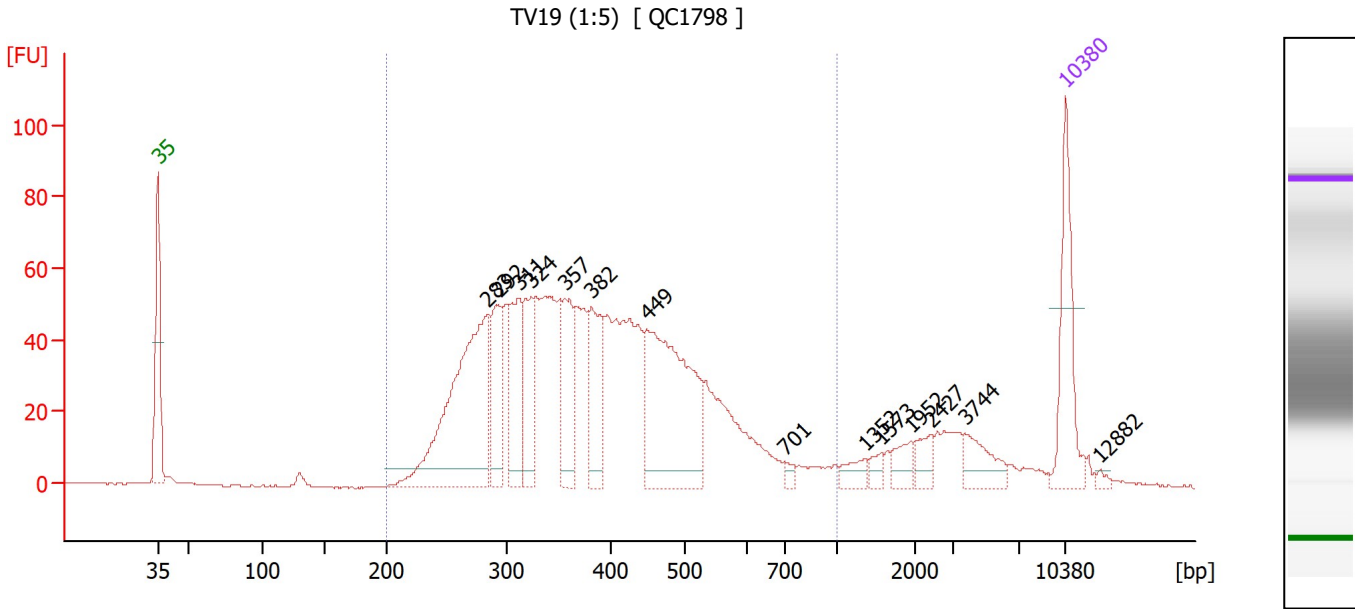
Region table for sample 8 : TV18 (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,301.2	88	396	29.2	1,323.06	5,595.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : TV19 (1:5)

Number of peaks found: 14 Corr. Area 1: 1,411.3
 Noise: 0.2

Peak table for sample 9 : TV19 (1:5)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	283	305.37	1,632.3	
3	292	87.53	453.7	
4	311	97.25	473.7	
5	324	80.62	377.5	
6	357	82.83	351.8	
7	382	90.11	357.7	
8	449	239.17	807.3	
9	701	6.66	14.4	
10	1,352	14.63	16.4	
11	1,573	9.61	9.3	
12	1,952	17.80	13.8	
13	2,427	16.72	10.4	
14	3,744	30.46	12.3	
15	10,380	75.00	10.9	Upper Marker
16	12,882	0.00	0.0	

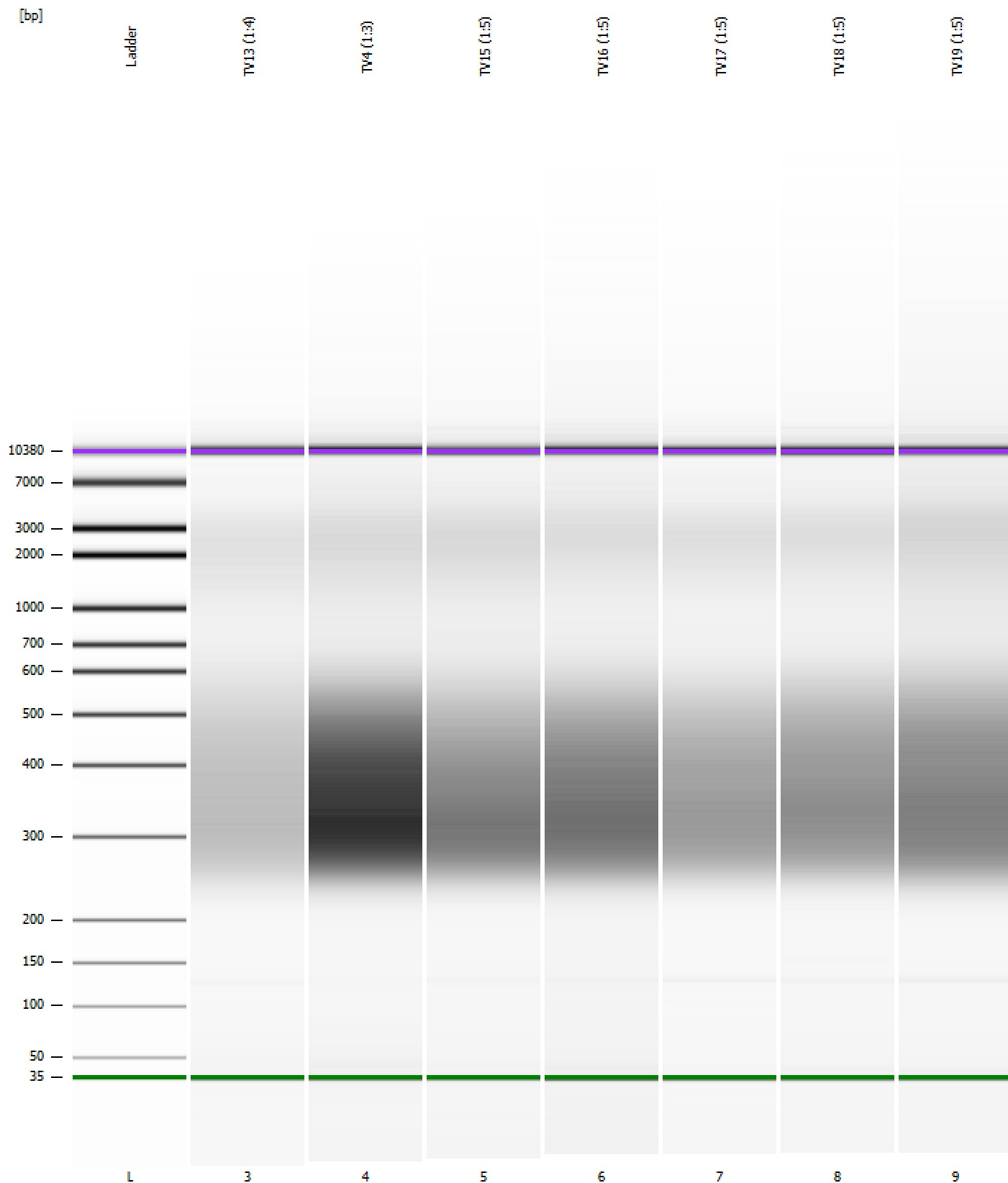
Region table for sample 9 : TV19 (1:5)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,411.3	85	401	31.1	1,704.61	7,212.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
Modified: 4/3/2024 9:59:31 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...00 bioanalyzer\2100 expert\data\2024-04-02\QC1789_13-19.xad

Created: 4/2/2024 1:10:50 PM
 Modified: 4/3/2024 9:59:31 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		4/2/2024 1:51:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2024-04-02\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2024-04-02_002.xad)		Instrument	Run		4/2/2024 1:10:56 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		4/2/2024 1:10:56 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		4/2/2024 1:10:56 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		4/2/2024 1:10:56 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		4/2/2024 1:10:56 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		4/2/2024 1:10:56 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		4/2/2024 1:10:56 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB