

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW083123\
 Data File : VW026972.D
 Acq On : 31 Aug 2023 13:05
 Operator : SY/MD
 Sample : 04235-11
 Misc : 5.24g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 01 00:46:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM081023SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Sep 01 00:44:05 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	57248	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	41808	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	11020	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.351	65	15471	16.439	ug/L	-0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	65.760%
7) Chloroethane-d5	2.887	69	15499	22.148	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.600%
11) 1,1-Dichloroethene-d2	4.015	65	6913	14.935	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	59.760%
21) 2-Butanone-d5	7.106	46	1723	6.370	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	12.740%#
24) Chloroform-d	7.661	84	2204	1.147	ug/L	0.01
Spiked Amount	25.000	Range	40 - 150	Recovery	=	4.600%#
26) 1,2-Dichloroethane-d4	8.307	65	25497	24.046	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.200%
32) Benzene-d6	8.276	84	67433	23.403	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.600%
36) 1,2-Dichloropropane-d6	9.276	67	23669	26.371	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.480%
41) Toluene-d8	10.325	98	41544	16.796	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	67.200%
43) trans-1,3-Dichloroprop...	10.581	79	7300	19.699	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	78.800%
47) 2-Hexanone-d5	10.983	63	83	0.880	ug/L	0.06
Spiked Amount	50.000	Range	20 - 135	Recovery	=	1.760%#
56) 1,1,2,2-Tetrachloroeth...	12.696	84	769	1.085	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	4.320%#
66) 1,2-Dichlorobenzene-d4	13.849	152	8194	20.774	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	83.080%
Target Compounds						
					Qvalue	
13) Acetone	4.112	43	1240	4.611	ug/L	90
15) Methyl Acetate	4.558	43	490	0.910	ug/L	93
16) Methylene chloride	4.917	84	7500	6.773	ug/L	79
25) Chloroform	7.679	83	36598	19.493	ug/L	96
34) Trichloroethene	9.093	95	10961	14.136	ug/L	92
37) 1,2-Dichloropropane	9.276	63	2603	3.121	ug/L	98
42) Toluene	10.386	91	2194	0.712	ug/L	97
46) Tetrachloroethene	10.867	164	13285	23.583	ug/L	91
53) m,p-Xylene	11.837	106	736	0.575	ug/L	73
59) Bromoform	12.343	173	237	1.373	ug/L #	76
62) 1,3,5-Trimethylbenzene	12.940	105	1564	1.208	ug/L	92
63) 1,2,4-Trimethylbenzene	13.245	105	3118	2.457	ug/L	96
64) 1,3-Dichlorobenzene	13.495	146	1065	1.495	ug/L #	27
65) 1,4-Dichlorobenzene	13.574	146	1168	1.571	ug/L #	1
67) 1,2-Dichlorobenzene	13.873	146	775	1.196	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.287	75	1535	23.820	ug/L #	24
69) 1,3,5-Trichlorobenzene	14.623	180	956	1.986	ug/L #	69
70) 1,2,4-trichlorobenzene	15.129	180	1664	4.077	ug/L #	21
71) Naphthalene	15.360	128	23761	30.519	ug/L #	96

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Quant Title : SFAM01.0
QLast Update : Fri Sep 01 00:44:05 2023
Response via : Initial Calibration

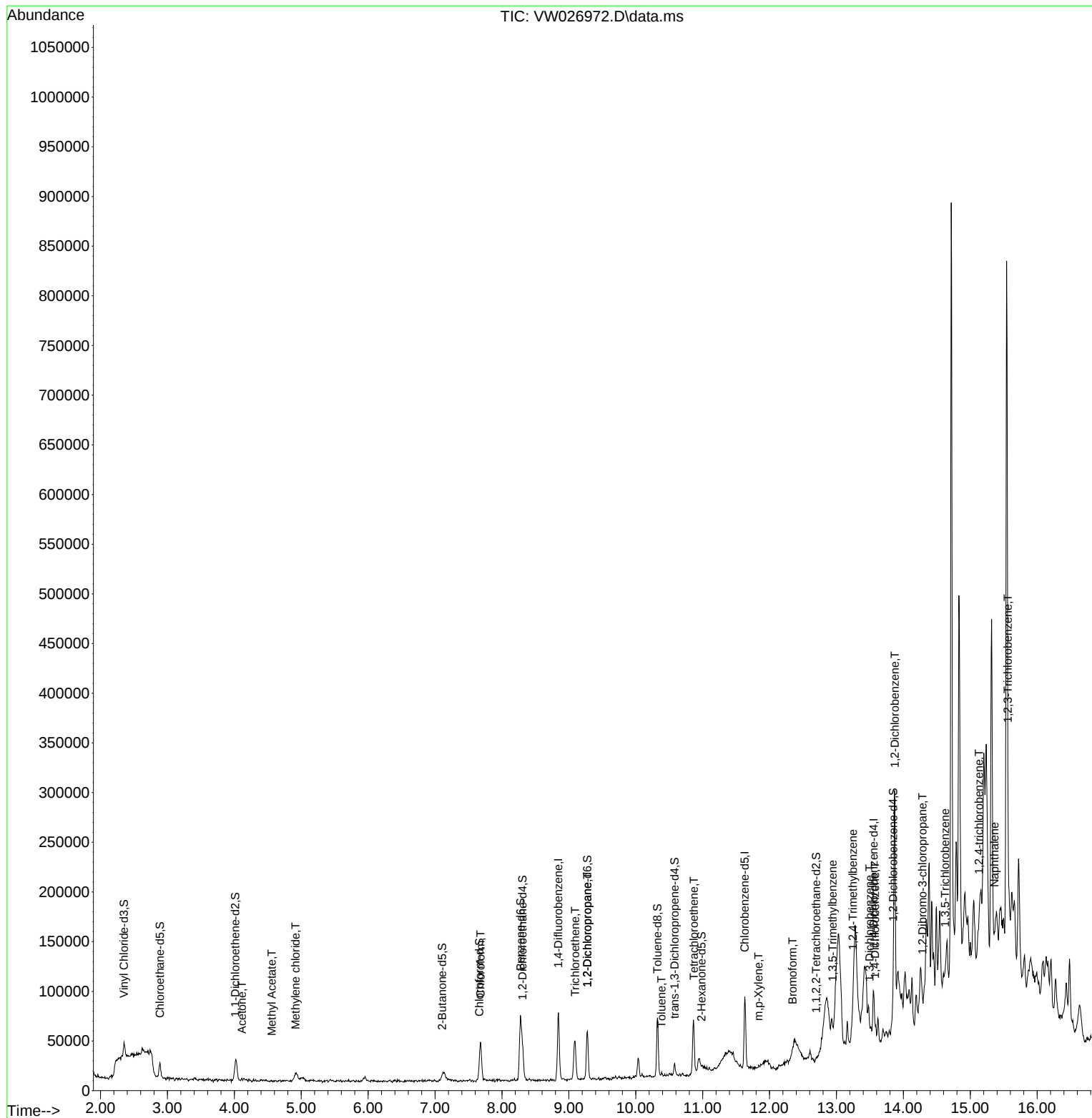
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 1,2,3-Trichlorobenzene	15.562	180	1331	3.616	ug/L #	56

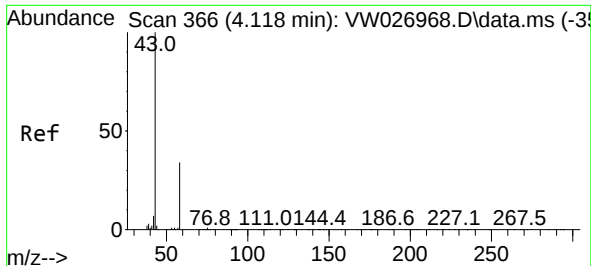
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 01 00:44:05 2023
Response via : Initial Calibration

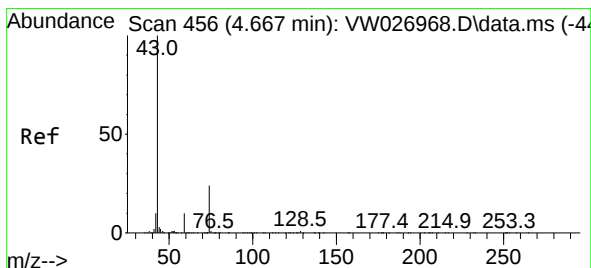
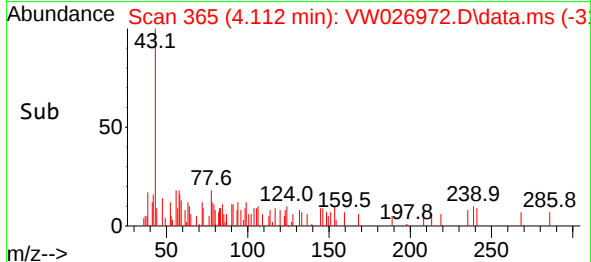
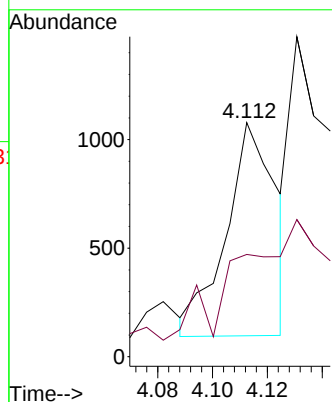
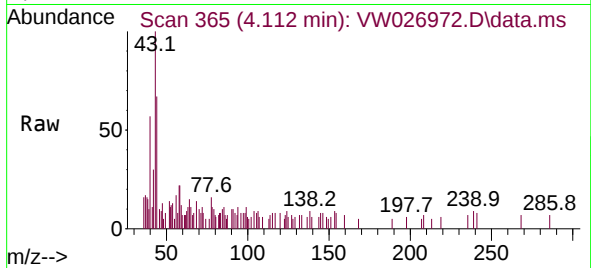




#13
Acetone
Concen: 4.611 ug/L
RT: 4.112 min Scan# 30
Delta R.T. -0.006 min
Lab File: VW026972.D
Acq: 31 Aug 2023 13:05

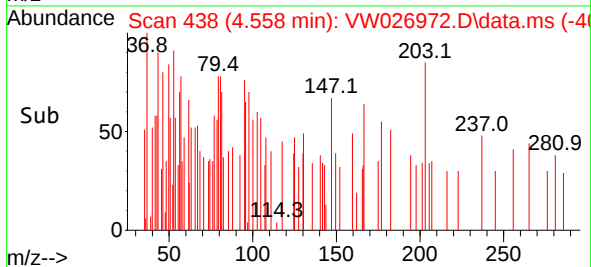
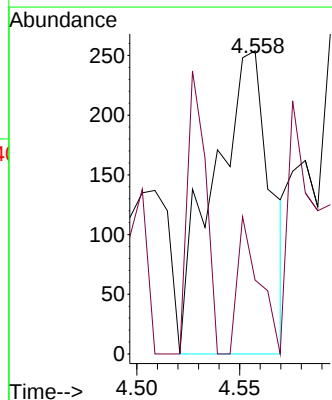
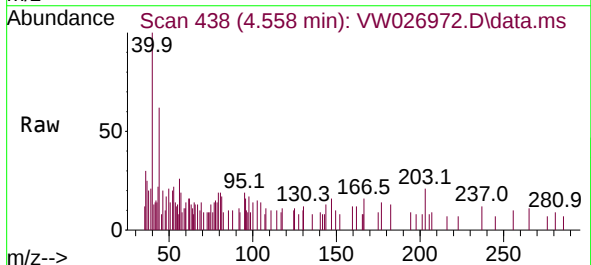
Instrument :
MSVOA_W
ClientSampleId :

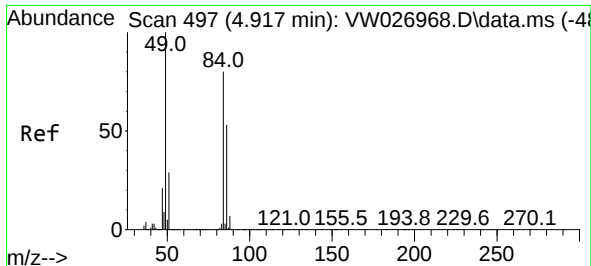
Tgt Ion: 43 Resp: 1240
Ion Ratio Lower Upper
43 100
58 34.1 0.0 57.4



#15
Methyl Acetate
Concen: 0.910 ug/L
RT: 4.558 min Scan# 438
Delta R.T. -0.110 min
Lab File: VW026972.D
Acq: 31 Aug 2023 13:05

Tgt Ion: 43 Resp: 490
Ion Ratio Lower Upper
43 100
74 17.1 16.4 24.6

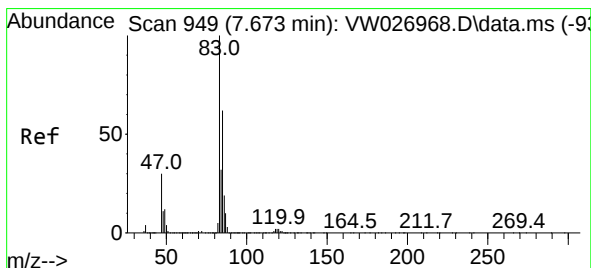
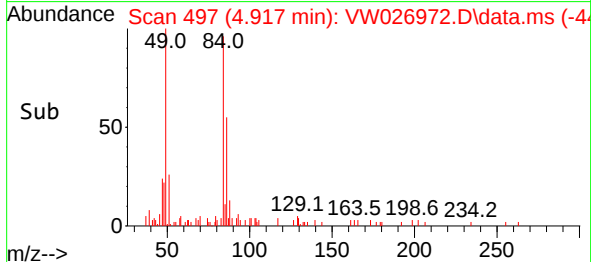
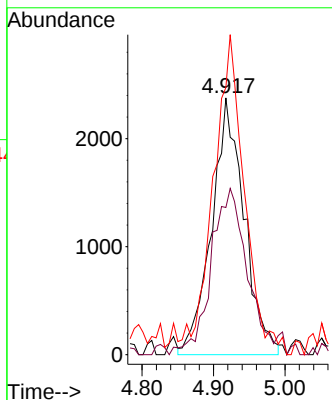
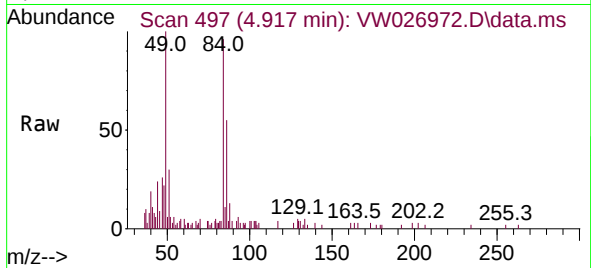




#16
Methylene chloride
Concen: 6.773 ug/L
RT: 4.917 min Scan# 49
Delta R.T. 0.000 min
Lab File: VW026972.D
Acq: 31 Aug 2023 13:05

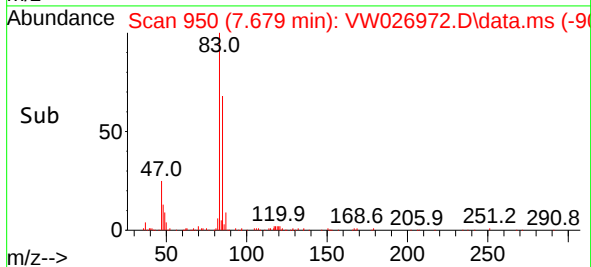
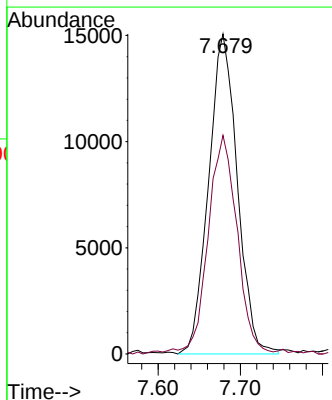
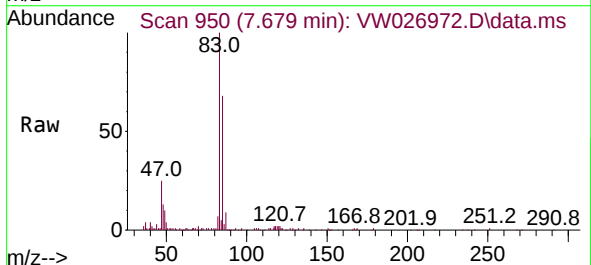
Instrument :
MSVOA_W
ClientSampleId :

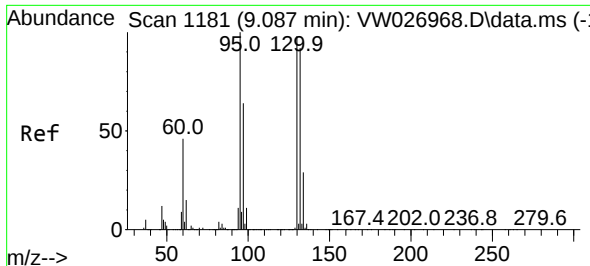
Tgt Ion: 84 Resp: 7500
Ion Ratio Lower Upper
84 100
86 57.3 43.5 80.9
49 104.0 96.0 178.2



#25
Chloroform
Concen: 19.493 ug/L
RT: 7.679 min Scan# 950
Delta R.T. 0.006 min
Lab File: VW026972.D
Acq: 31 Aug 2023 13:05

Tgt Ion: 83 Resp: 36598
Ion Ratio Lower Upper
83 100
85 68.3 45.4 84.2





#34

Trichloroethene

Concen: 14.136 ug/L

RT: 9.093 min Scan# 1181

Delta R.T. 0.006 min

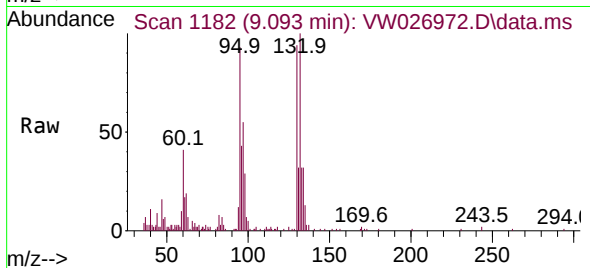
Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 10961

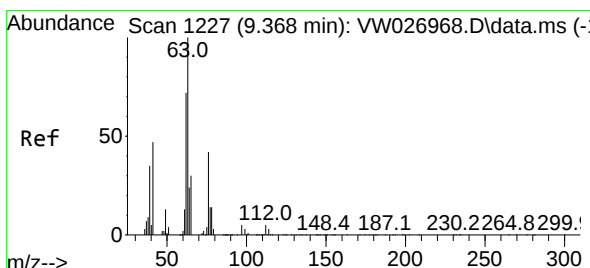
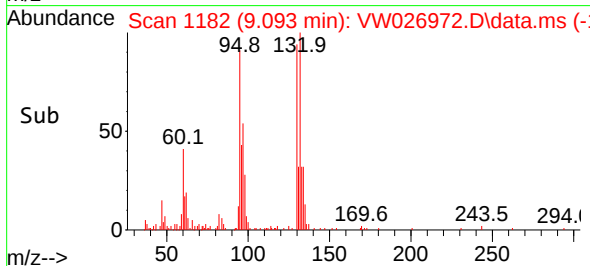
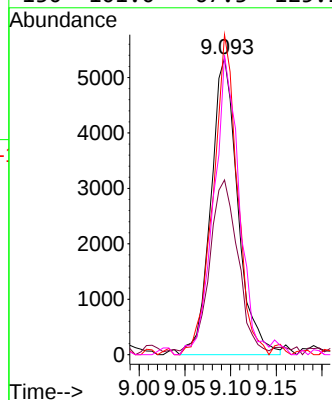
Ion Ratio Lower Upper

95 100

97 58.9 44.6 82.8

132 107.9 66.4 123.2

130 101.0 67.3 125.1



#37

1,2-Dichloropropane

Concen: 3.121 ug/L

RT: 9.276 min Scan# 1212

Delta R.T. -0.091 min

Lab File: VW026972.D

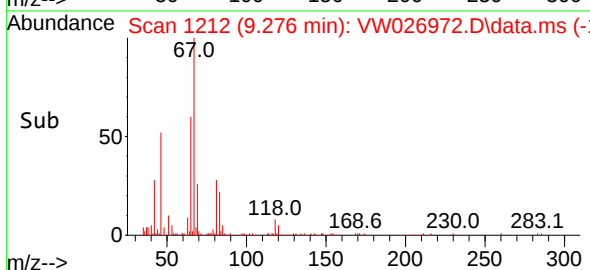
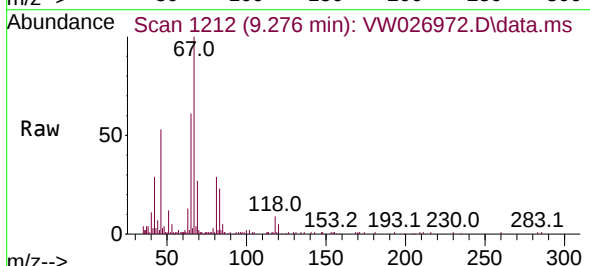
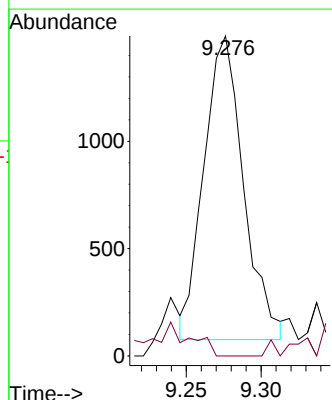
Acq: 31 Aug 2023 13:05

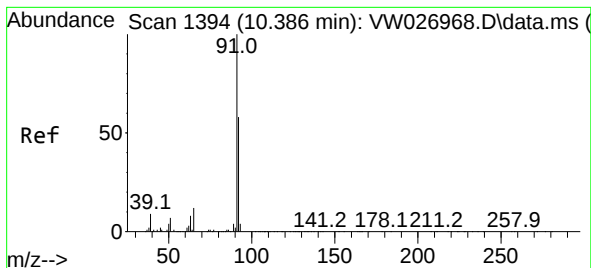
Tgt Ion: 63 Resp: 2603

Ion Ratio Lower Upper

63 100

112 3.4 3.1 4.7





#42

Toluene

Concen: 0.712 ug/L

RT: 10.386 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Instrument :

MSVOA_W

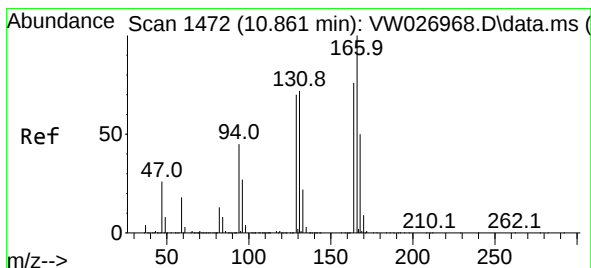
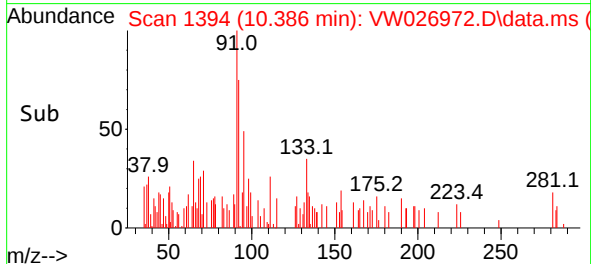
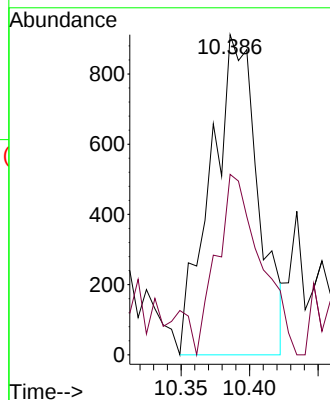
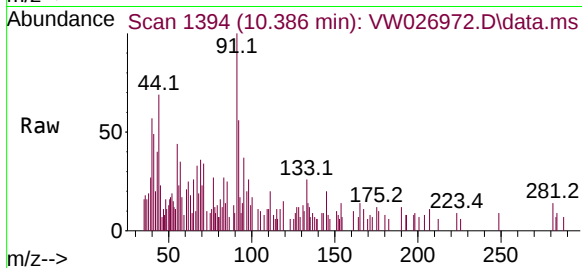
ClientSampleId :

Tgt Ion: 91 Resp: 2194

Ion Ratio Lower Upper

91 100

92 56.4 40.8 75.8



#46

Tetrachloroethene

Concen: 23.583 ug/L

RT: 10.867 min Scan# 1473

Delta R.T. 0.006 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Tgt Ion:164 Resp: 13285

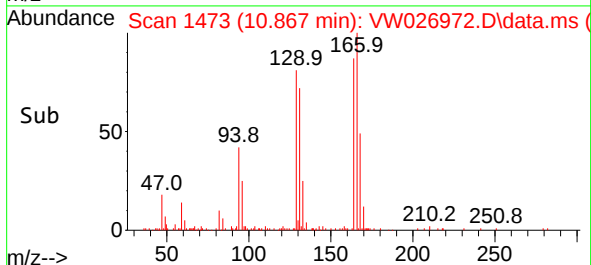
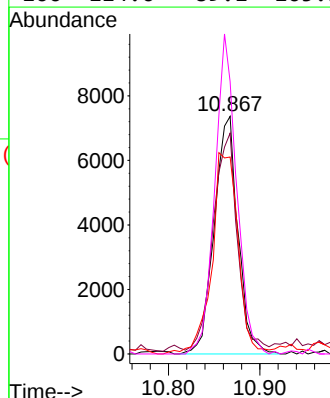
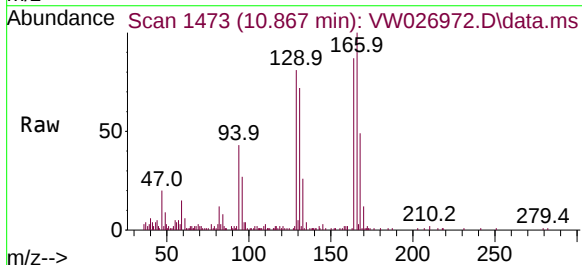
Ion Ratio Lower Upper

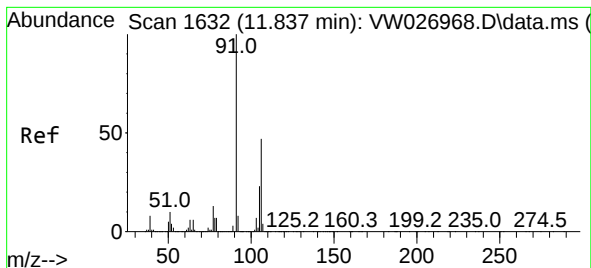
164 100

129 92.9 68.1 126.5

131 82.9 65.5 121.7

166 114.6 89.1 165.5





#53

m,p-Xylene

Concen: 0.575 ug/L

RT: 11.837 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Instrument :

MSVOA_W

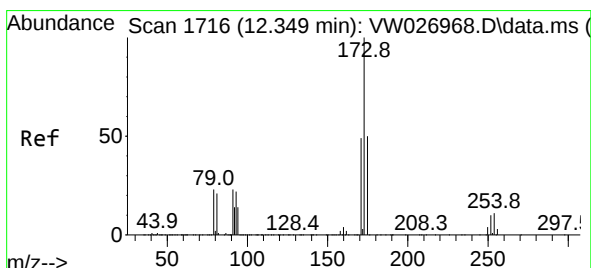
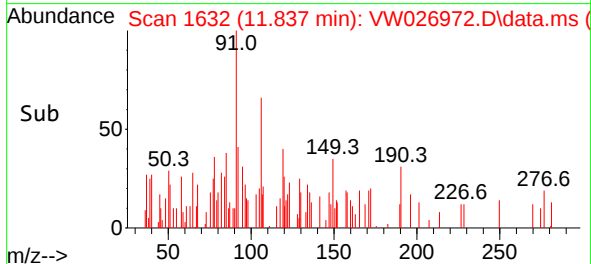
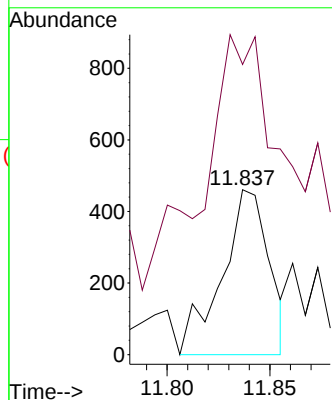
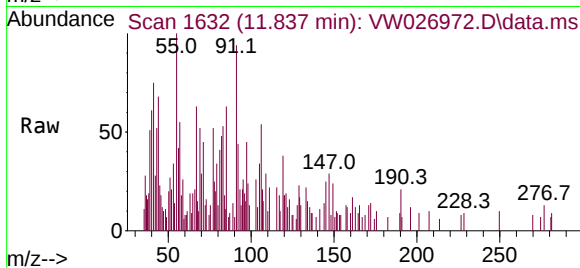
ClientSampleId :

Tgt Ion:106 Resp: 736

Ion Ratio Lower Upper

106 100

91 175.9 152.9 284.1



#59

Bromoform

Concen: 1.373 ug/L

RT: 12.343 min Scan# 1715

Delta R.T. -0.006 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

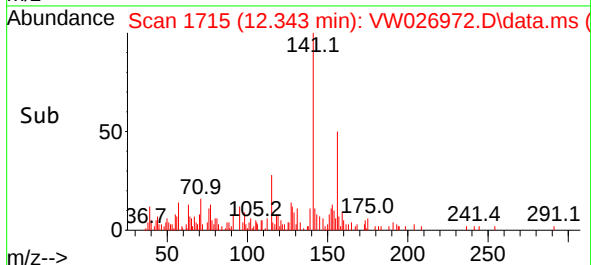
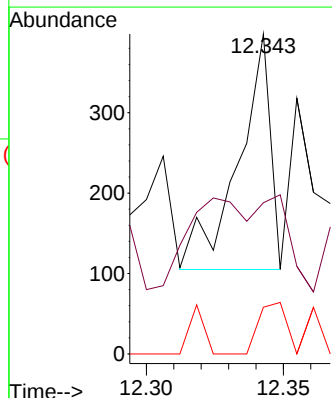
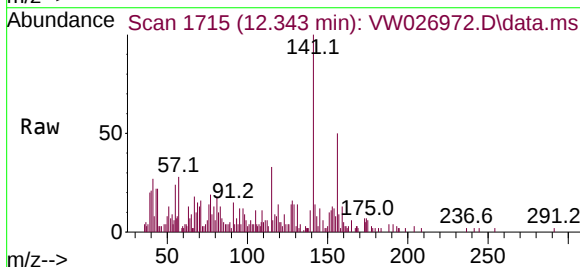
Tgt Ion:173 Resp: 237

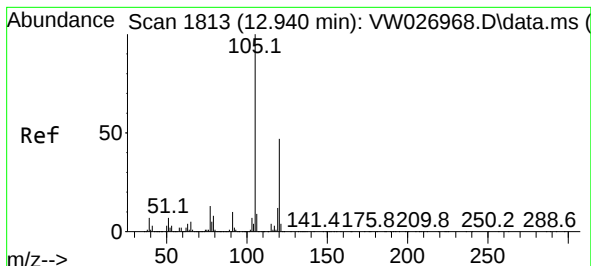
Ion Ratio Lower Upper

173 100

175 61.2 36.6 55.0#

254 19.0 7.8 11.6#





#62

1,3,5-Trimethylbenzene

Concen: 1.208 ug/L

RT: 12.940 min Scan# 1813

Delta R.T. 0.000 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Instrument :

MSVOA_W

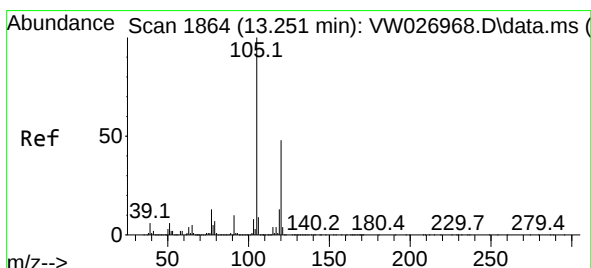
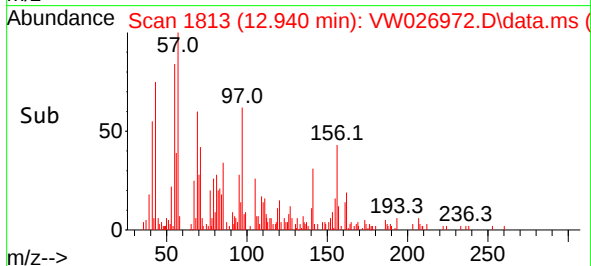
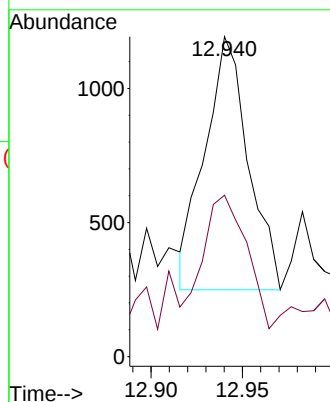
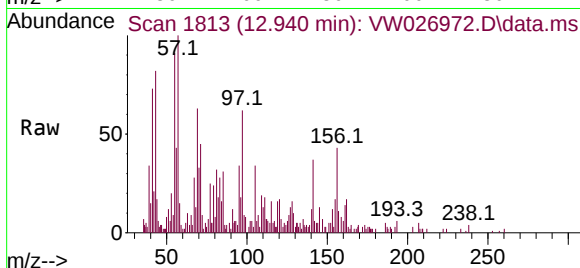
ClientSampleId :

Tgt Ion:105 Resp: 1564

Ion Ratio Lower Upper

105 100

120 52.4 37.4 56.2



#63

1,2,4-Trimethylbenzene

Concen: 2.457 ug/L

RT: 13.245 min Scan# 1863

Delta R.T. -0.006 min

Lab File: VW026972.D

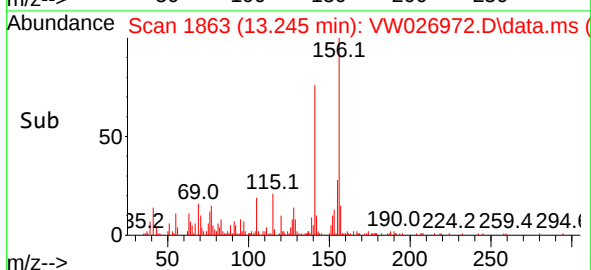
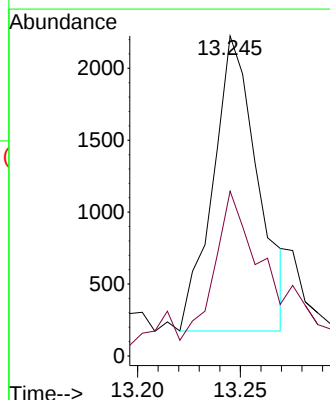
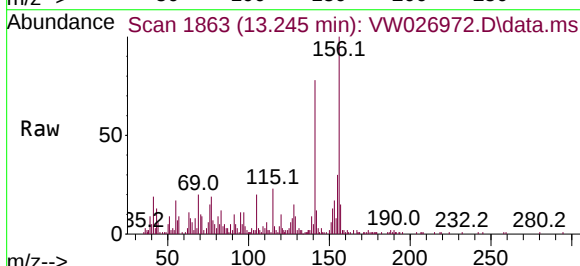
Acq: 31 Aug 2023 13:05

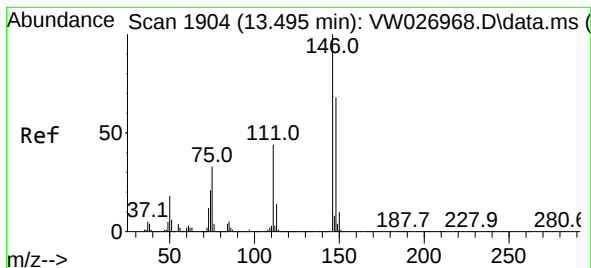
Tgt Ion:105 Resp: 3118

Ion Ratio Lower Upper

105 100

120 48.2 36.2 54.4





#64

1,3-Dichlorobenzene

Concen: 1.495 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW026972.D

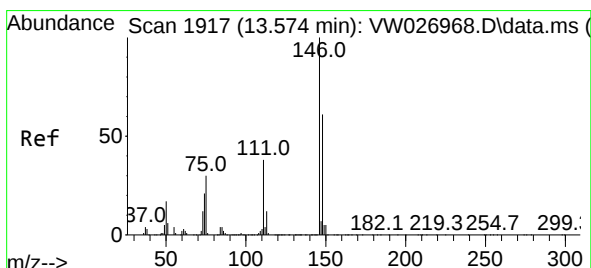
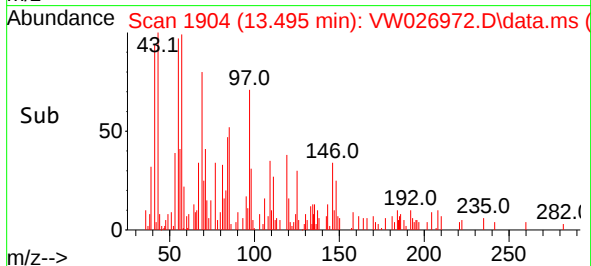
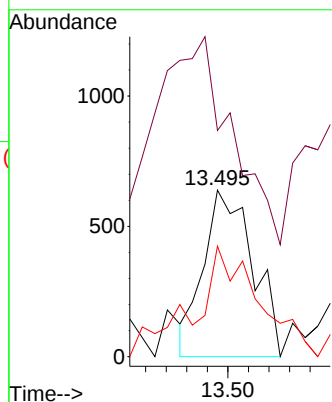
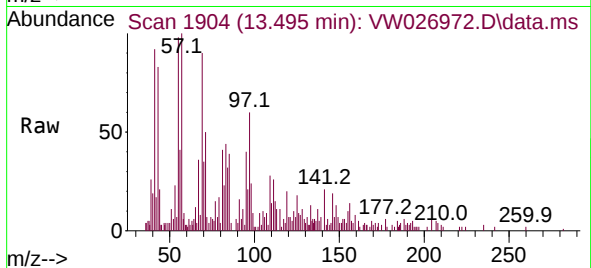
Acq: 31 Aug 2023 13:05

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:146	Resp:	1065
Ion Ratio	Lower	Upper
146	100	
111	135.8	29.1 54.1#
148	66.4	38.8 72.0



#65

1,4-Dichlorobenzene

Concen: 1.571 ug/L

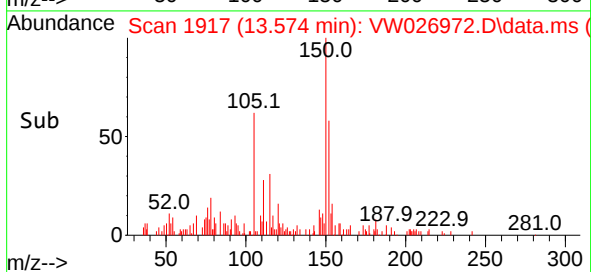
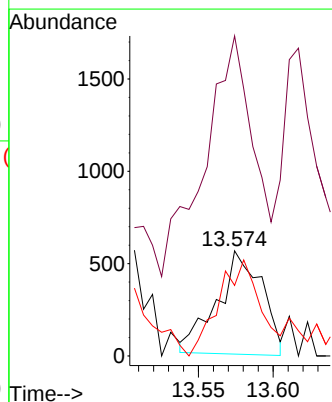
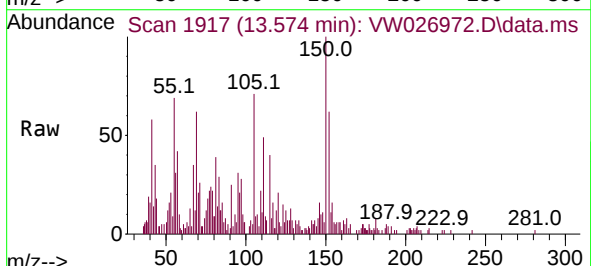
RT: 13.574 min Scan# 1917

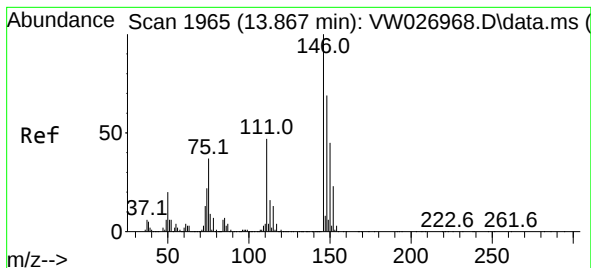
Delta R.T. 0.000 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Tgt Ion:146	Resp:	1168
Ion Ratio	Lower	Upper
146	100	
111	304.6	28.3 52.7#
148	67.1	44.2 82.2





#67

1,2-Dichlorobenzene

Concen: 1.196 ug/L

RT: 13.873 min Scan# 1965

Delta R.T. 0.006 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Instrument :

MSVOA_W

ClientSampleId :

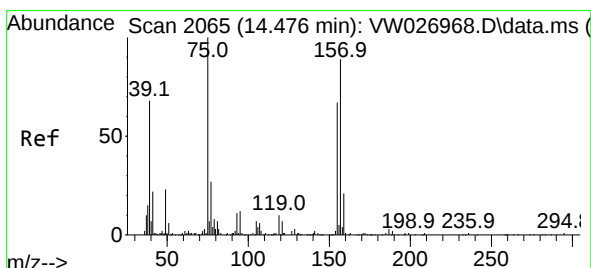
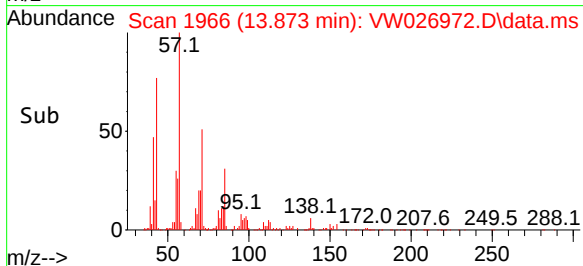
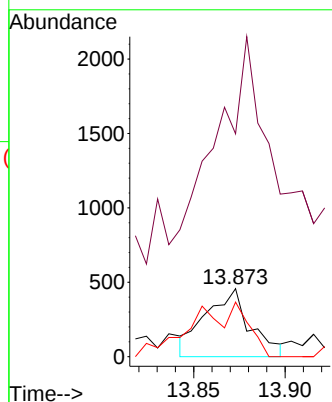
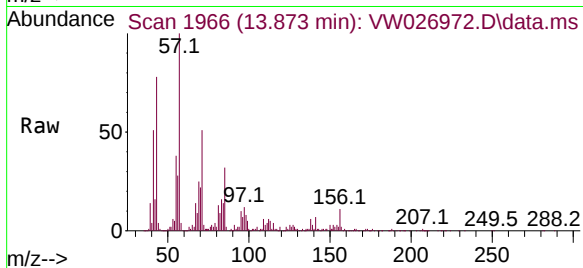
Tgt Ion:146 Resp: 775

Ion Ratio Lower Upper

146 100

111 328.3 34.6 52.0#

148 80.3 53.4 80.0#



#68

1,2-Dibromo-3-chloropropane

Concen: 23.820 ug/L

RT: 14.287 min Scan# 2034

Delta R.T. -0.189 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

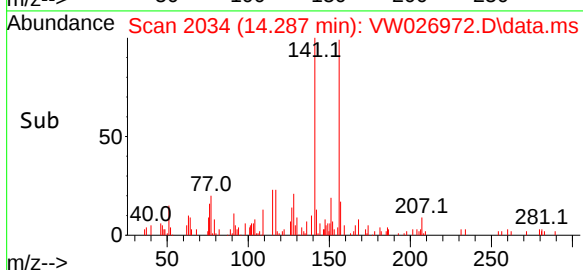
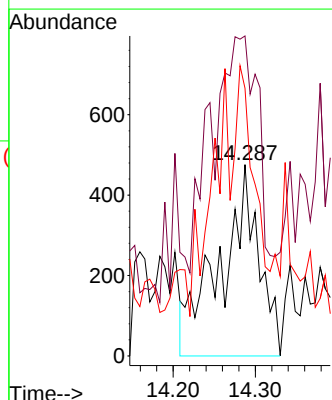
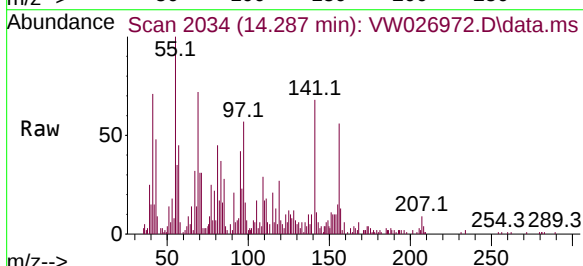
Tgt Ion: 75 Resp: 1535

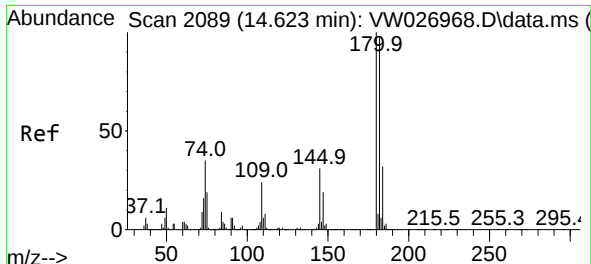
Ion Ratio Lower Upper

75 100

155 167.2 55.0 82.6#

157 139.9 77.8 116.6#





#69

1,3,5-Trichlorobenzene

Concen: 1.986 ug/L

RT: 14.623 min Scan# 2089

Delta R.T. 0.000 min

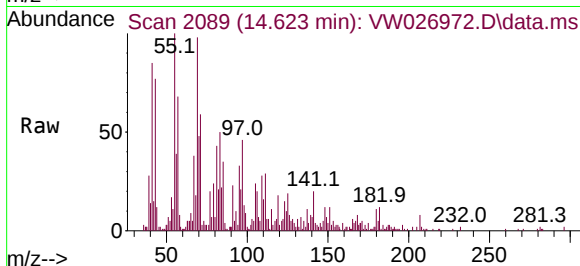
Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

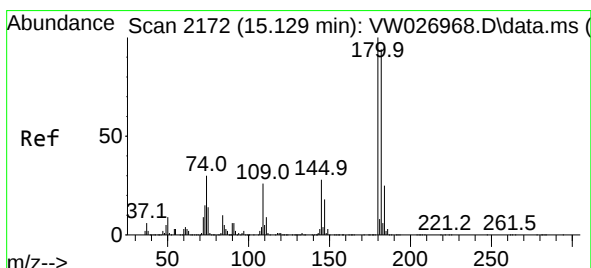
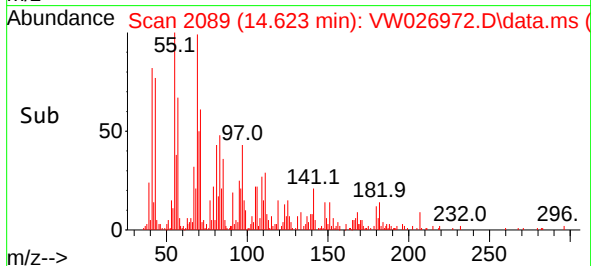
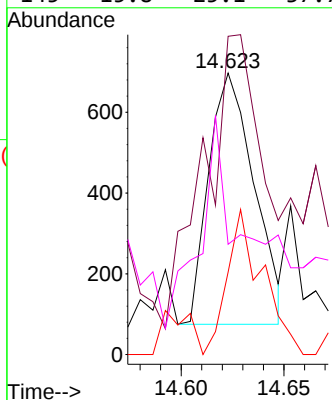
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	180	Resp:	956
Ion Ratio	Lower	Upper	
180	100		
182	61.5	75.2	112.8#
184	44.9	23.8	35.8#
145	15.8	25.1	37.7#



#70

1,2,4-trichlorobenzene

Concen: 4.077 ug/L

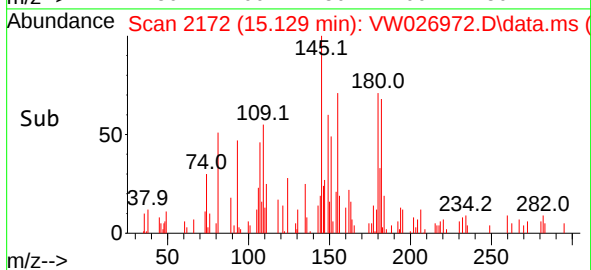
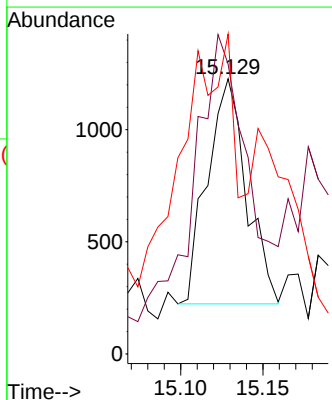
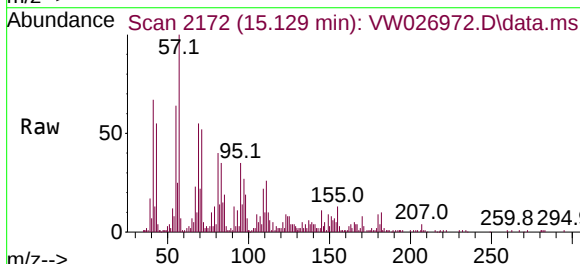
RT: 15.129 min Scan# 2172

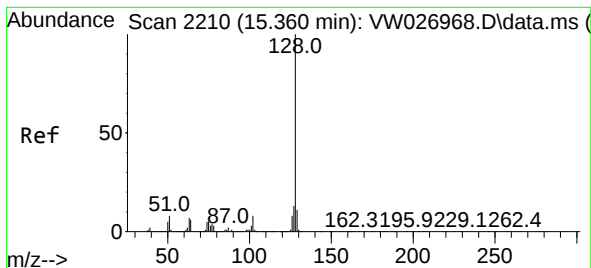
Delta R.T. 0.000 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Tgt Ion:	180	Resp:	1664
Ion Ratio	Lower	Upper	
180	100		
182	175.5	72.5	108.7#
145	57.9	24.7	37.1#





#71

Naphthalene

Concen: 30.519 ug/L

RT: 15.360 min Scan# 21

Delta R.T. 0.000 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Instrument :

MSVOA_W

ClientSampleId :

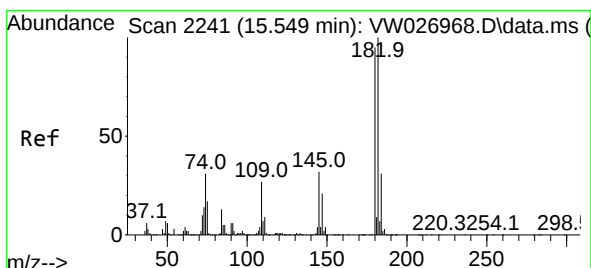
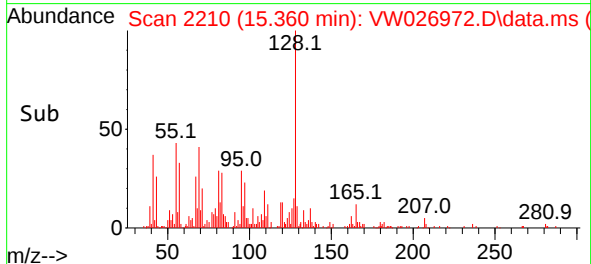
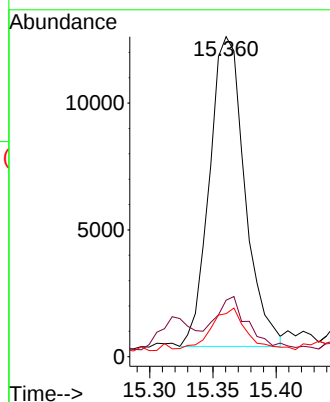
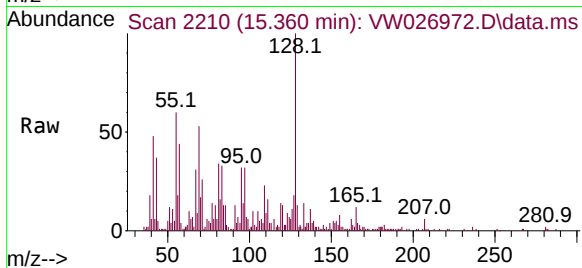
Tgt Ion:128 Resp: 23761

Ion Ratio Lower Upper

128 100

127 12.9 10.7 16.1

129 14.4 9.0 13.4#



#72

1,2,3-Trichlorobenzene

Concen: 3.616 ug/L

RT: 15.562 min Scan# 2243

Delta R.T. 0.012 min

Lab File: VW026972.D

Acq: 31 Aug 2023 13:05

Tgt Ion:180 Resp: 1331

Ion Ratio Lower Upper

180 100

182 56.5 74.6 112.0#

145 0.0 27.0 40.6#

