

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071824\
 Data File : VW029632.D
 Acq On : 18 Jul 2024 14:40
 Operator : SY/MD
 Sample : P3264-04DL 4X
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A4DH5DL

Quant Time: Jul 19 01:14:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM070824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jul 19 01:07:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	228595	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	213172	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	100839	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	65158	17.645	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	70.560%
7) Chloroethane-d5	2.899	69	52271	19.658	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.640%
11) 1,1-Dichloroethene-d2	4.021	65	31211	18.822	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.280%
21) 2-Butanone-d5	7.081	46	38821	35.020	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	70.040%
24) Chloroform-d	7.648	84	147806	22.366	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.480%
26) 1,2-Dichloroethane-d4	8.307	65	85200	21.980	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	87.920%
32) Benzene-d6	8.276	84	277738	21.749	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.000%
36) 1,2-Dichloropropane-d6	9.270	67	91596	22.433	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.720%
41) Toluene-d8	10.319	98	250396	22.296	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	89.200%
43) trans-1,3-Dichloroprop...	10.575	79	33195	19.199	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	76.800%
47) 2-Hexanone-d5	10.922	63	26177	35.282	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	70.560%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	66248	19.984	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	79.920%
66) 1,2-Dichlorobenzene-d4	13.848	152	75323	21.449	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	85.800%
Target Compounds						
					Qvalue	
13) Acetone	4.125	43	73547	65.734	ug/L	99
16) Methylene chloride	4.917	84	80806	19.745	ug/L	94
17) trans-1,2-Dichloroethene	5.429	96	40384	12.832	ug/L	93
18) Methyl tert-butyl Ether	5.429	73	29505	5.510	ug/L	94
19) 1,1-Dichloroethane	6.222	63	114715	17.750	ug/L	98
20) cis-1,2-Dichloroethene	7.173	96	72948	21.198	ug/L	89
22) 2-Butanone	7.173	43	25149	17.122	ug/L	96
25) Chloroform	7.673	83	60827	9.727	ug/L	98
31) Carbon tetrachloride	8.063	117	19671	4.412	ug/L	99
33) Benzene	8.325	78	317457	23.802	ug/L	100
34) Trichloroethene	9.093	95	93636	26.585	ug/L	96
38) Bromodichloromethane	9.642	83	78512	17.428	ug/L #	98
39) cis-1,3-Dichloropropene	10.075	75	106731	19.267	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	149974	57.697	ug/L	99
42) Toluene	10.386	91	147129	10.783	ug/L	98
45) 1,1,2-Trichloroethane	10.782	97	32370	12.204	ug/L	97
46) Tetrachloroethene	10.861	164	31149	12.448	ug/L	88
49) Dibromochloromethane	11.129	129	57016	20.655	ug/L	98
50) 1,2-Dibromoethane	11.233	107	21261	8.411	ug/L	99

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Quant Title : SFAM01.0
QLast Update : Fri Jul 19 01:07:26 2024
Response via : Initial Calibration

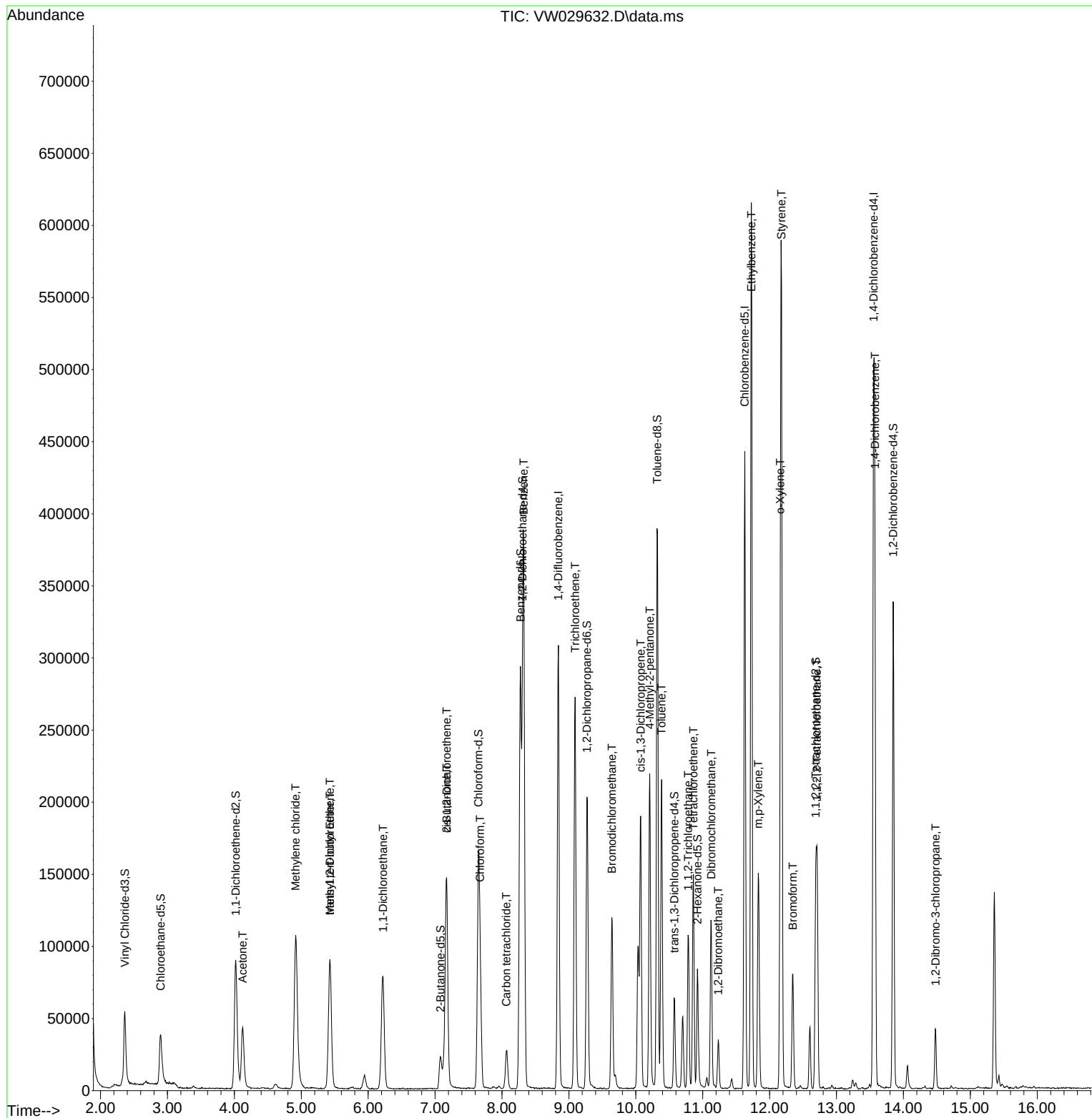
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	11.727	91	295272	19.100	ug/L	99
53) m,p-Xylene	11.830	106	43827	7.723	ug/L	98
54) o-Xylene	12.160	106	63667	12.130	ug/L	93
55) Styrene	12.178	104	207204	22.450	ug/L	98
57) 1,1,2,2-Tetrachloroethane	12.708	83	72420	21.645	ug/L	92
59) Bromoform	12.349	173	34653	22.262	ug/L	95
65) 1,4-Dichlorobenzene	13.574	146	122200	18.756	ug/L	91
68) 1,2-Dibromo-3-chloropr...	14.482	75	10676	18.299	ug/L	90

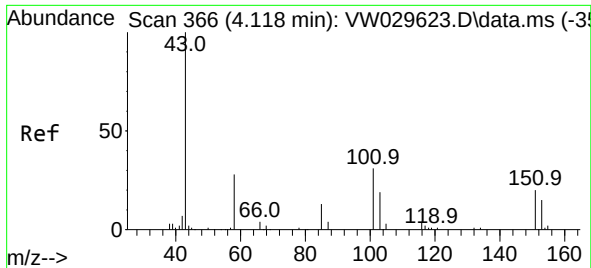
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0
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Response via : Initial Calibration





#13

Acetone

Concen: 65.734 ug/L

RT: 4.125 min Scan# 367

Delta R.T. 0.006 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

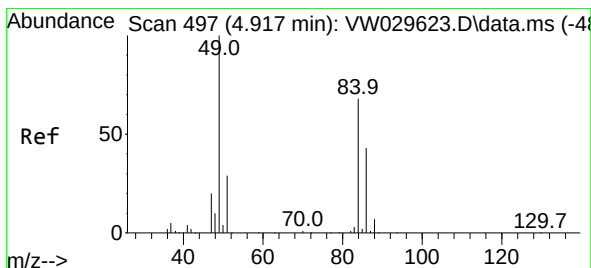
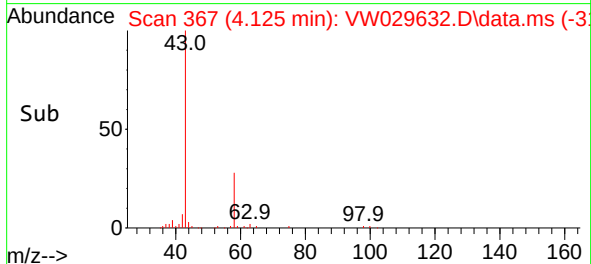
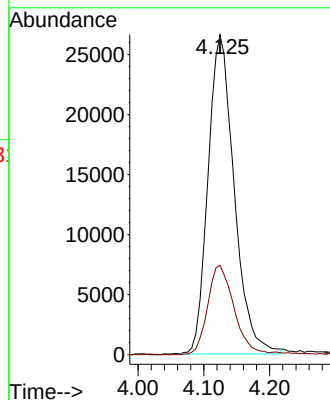
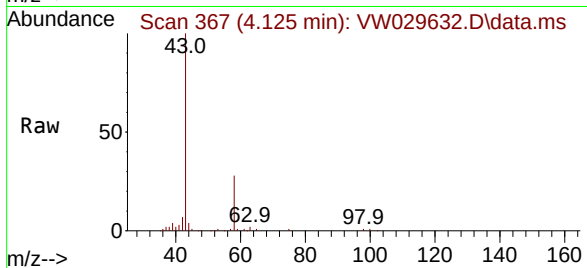
A4DH5DL

Tgt Ion: 43 Resp: 73547

Ion Ratio Lower Upper

43 100

58 28.1 0.0 55.6



#16

Methylene chloride

Concen: 19.745 ug/L

RT: 4.917 min Scan# 497

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

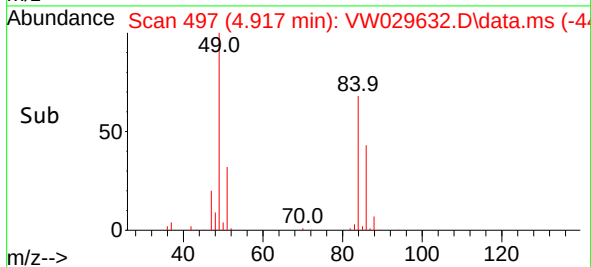
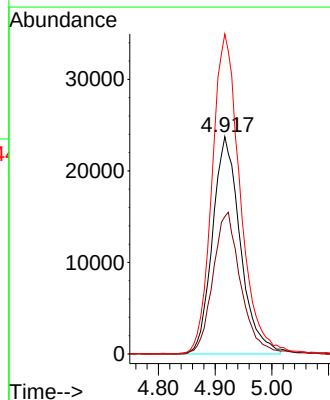
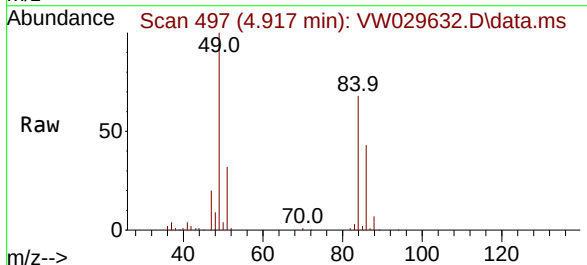
Tgt Ion: 84 Resp: 80806

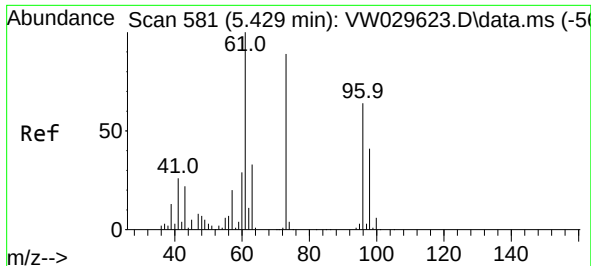
Ion Ratio Lower Upper

84 100

86 63.2 46.2 85.8

49 147.2 96.7 179.7





#17

trans-1,2-Dichloroethene

Concen: 12.832 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

A4DH5DL

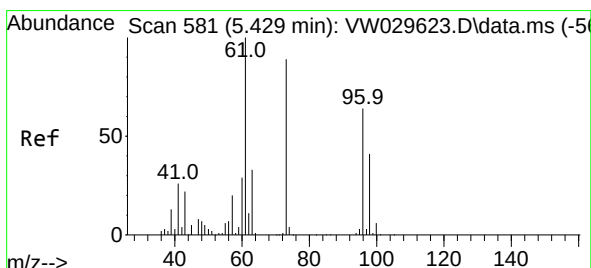
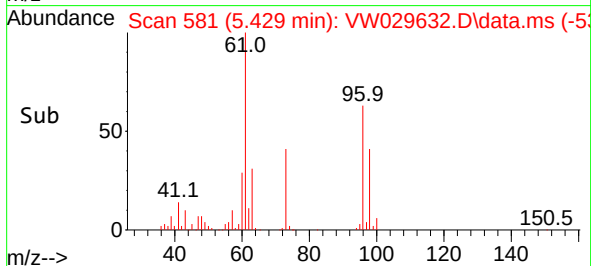
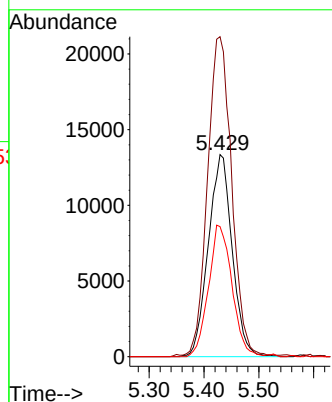
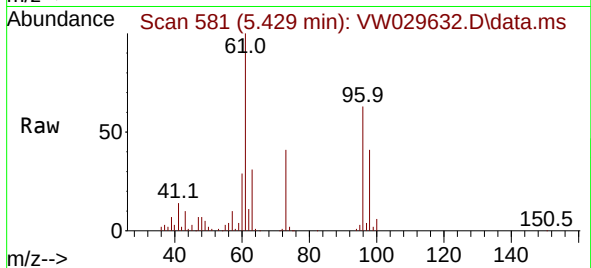
Tgt Ion: 96 Resp: 40384

Ion Ratio Lower Upper

96 100

61 158.4 102.9 191.1

98 64.4 43.9 81.5



#18

Methyl tert-butyl Ether

Concen: 5.510 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

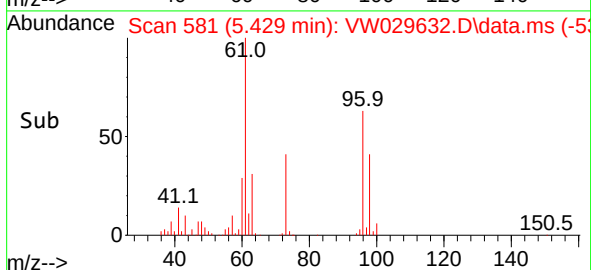
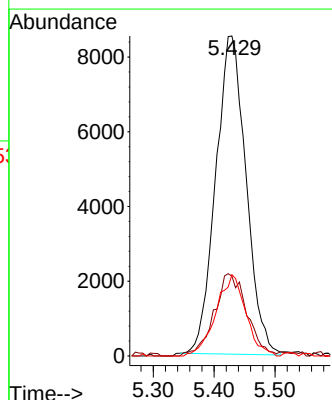
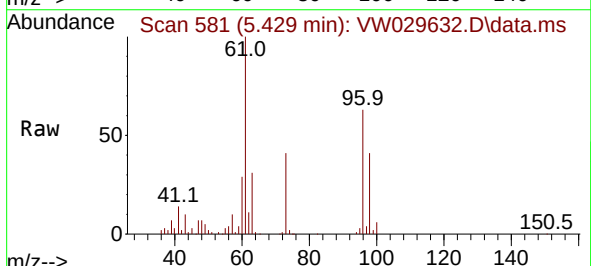
Tgt Ion: 73 Resp: 29505

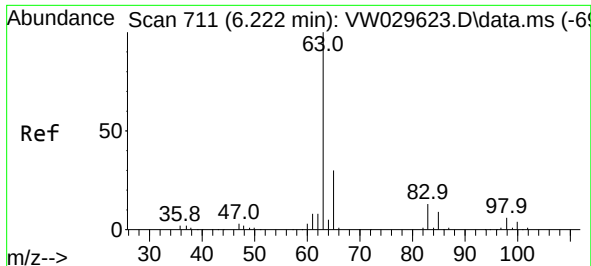
Ion Ratio Lower Upper

73 100

43 27.6 18.7 28.1

57 25.1 18.9 28.3





#19

1,1-Dichloroethane

Concen: 17.750 ug/L

RT: 6.222 min Scan# 711

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

A4DH5DL

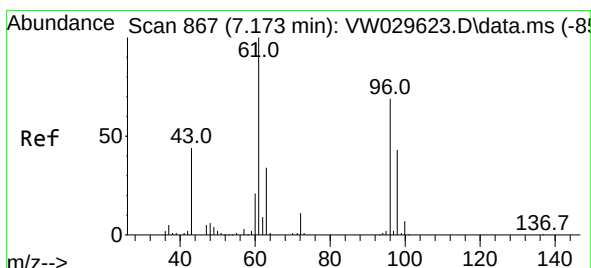
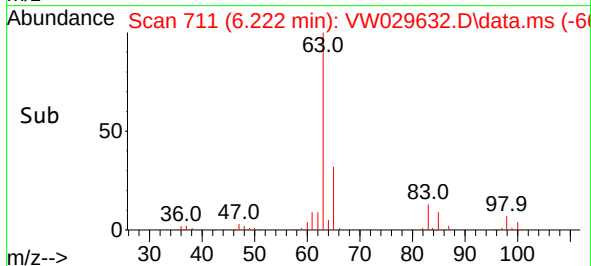
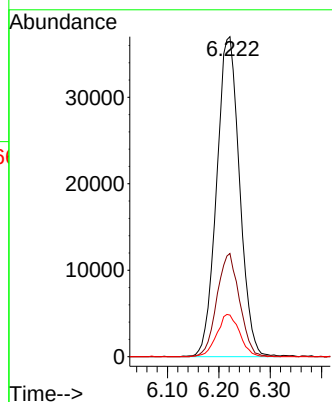
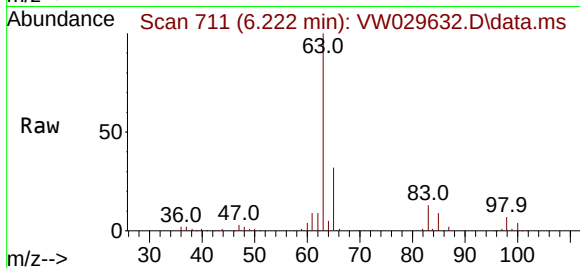
Tgt Ion: 63 Resp: 114715

Ion Ratio Lower Upper

63 100

65 32.3 21.5 39.9

83 13.0 8.7 16.1



#20

cis-1,2-Dichloroethene

Concen: 21.198 ug/L

RT: 7.173 min Scan# 867

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

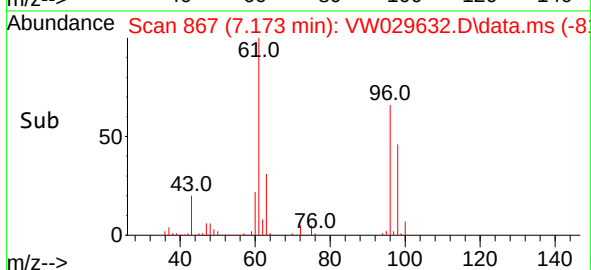
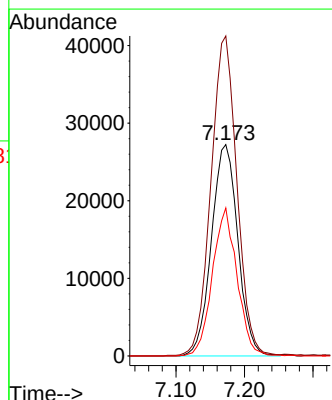
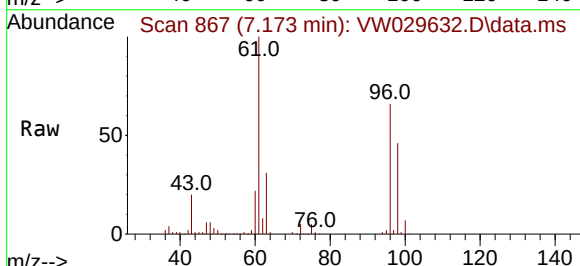
Tgt Ion: 96 Resp: 72948

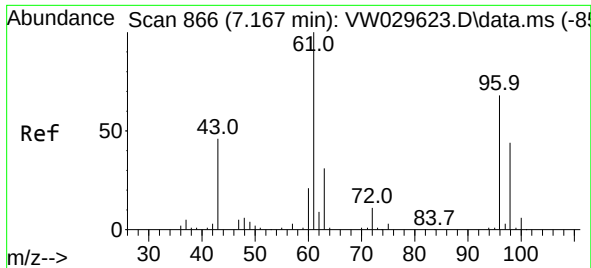
Ion Ratio Lower Upper

96 100

61 151.4 97.4 180.8

98 70.0 41.6 77.2

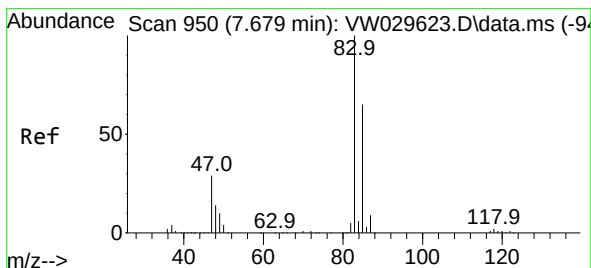
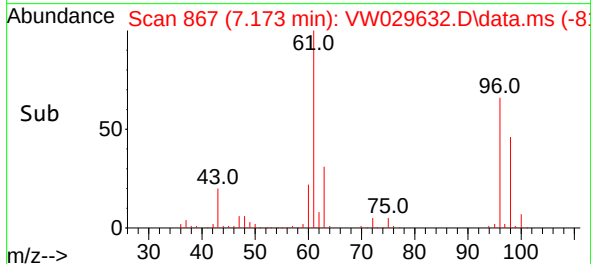
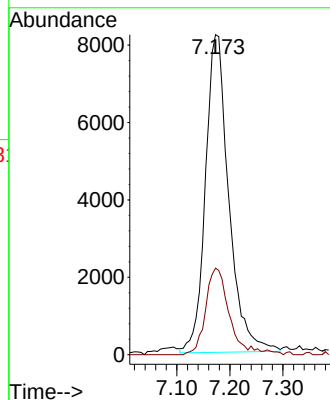
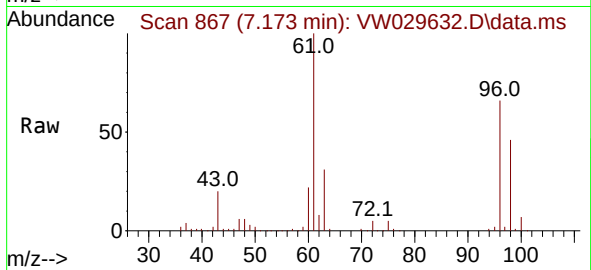




#22
2-Butanone
Concen: 17.122 ug/L
RT: 7.173 min Scan# 867
Delta R.T. 0.006 min
Lab File: VW029632.D
Acq: 18 Jul 2024 14:40

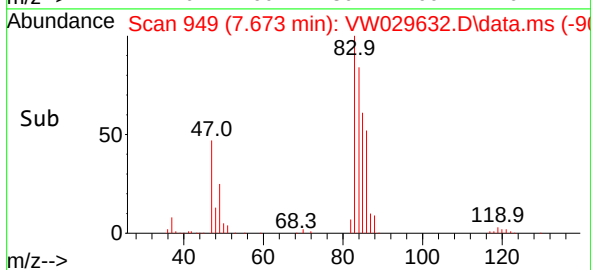
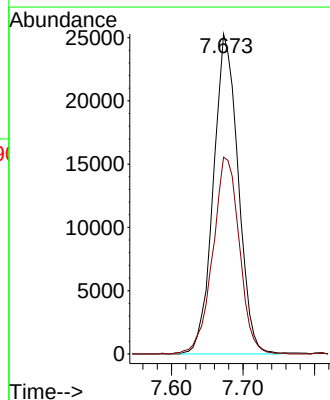
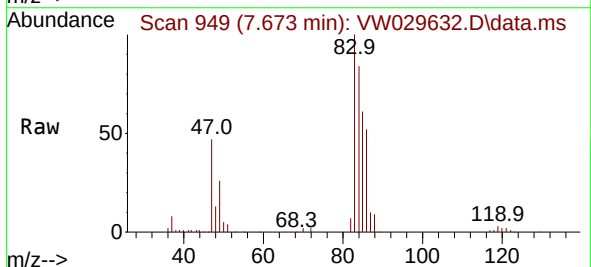
Instrument :
MSVOA_W
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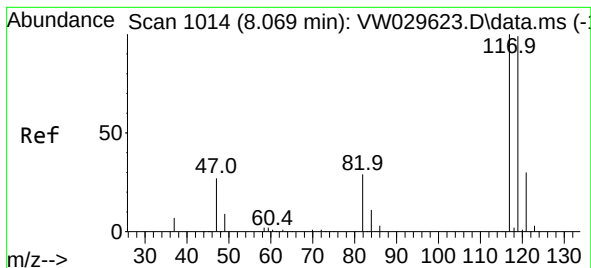
Tgt Ion: 43 Resp: 25149
Ion Ratio Lower Upper
43 100
72 26.2 12.0 36.1



#25
Chloroform
Concen: 9.727 ug/L
RT: 7.673 min Scan# 949
Delta R.T. -0.006 min
Lab File: VW029632.D
Acq: 18 Jul 2024 14:40

Tgt Ion: 83 Resp: 60827
Ion Ratio Lower Upper
83 100
85 61.5 44.1 81.9





#31

Carbon tetrachloride

Concen: 4.412 ug/L

RT: 8.063 min Scan# 1014

Delta R.T. -0.006 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

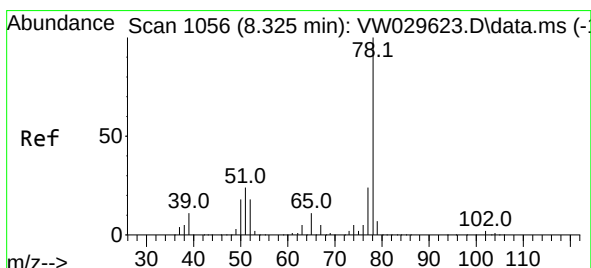
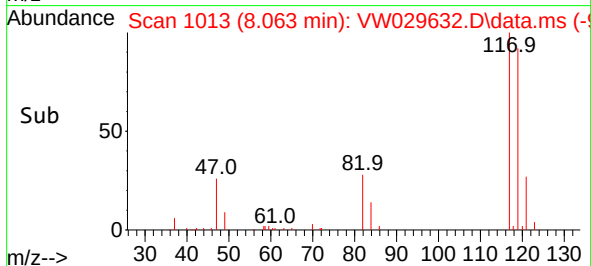
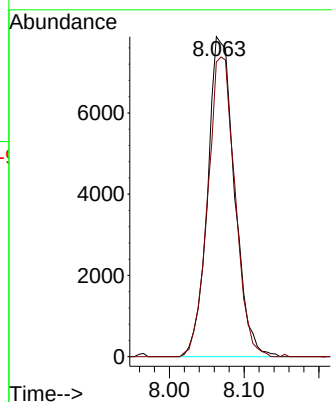
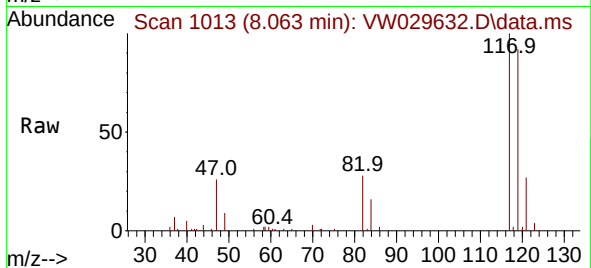
A4DH5DL

Tgt Ion:117 Resp: 19671

Ion Ratio Lower Upper

117 100

119 95.1 77.0 115.6



#33

Benzene

Concen: 23.802 ug/L

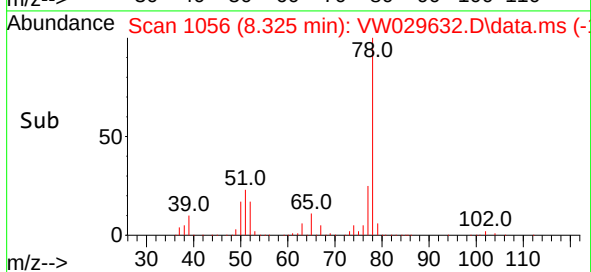
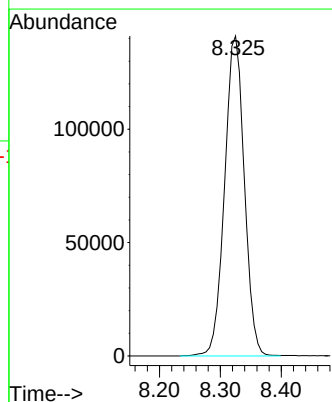
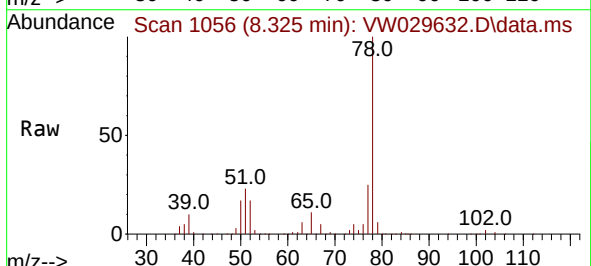
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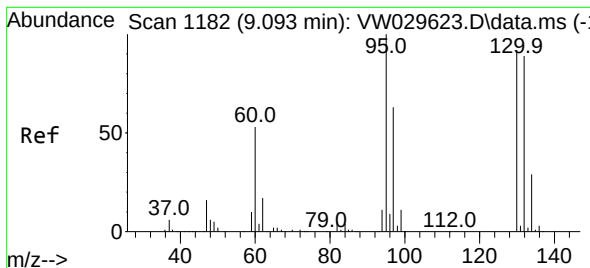
Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Tgt Ion: 78 Resp: 317457





#34

Trichloroethene

Concen: 26.585 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

A4DH5DL

Tgt Ion: 95 Resp: 93636

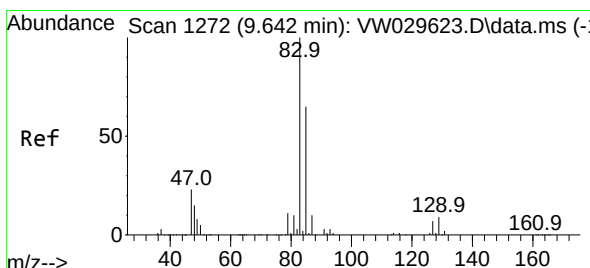
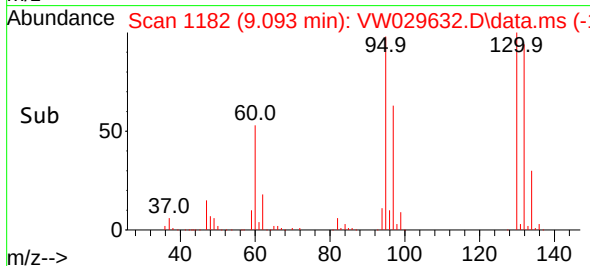
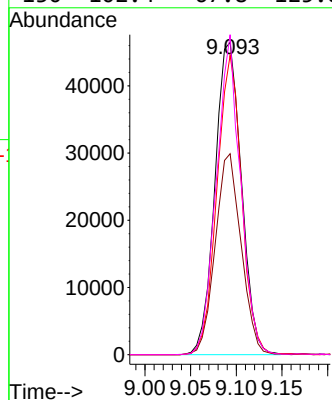
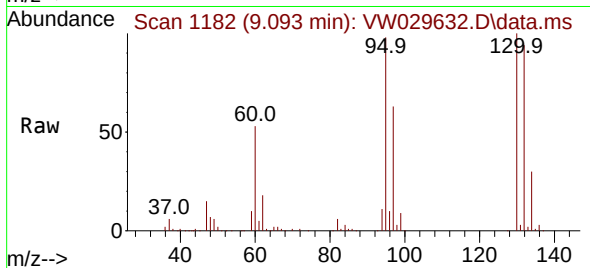
Ion Ratio Lower Upper

95 100

97 64.3 47.3 87.9

132 95.8 65.8 122.2

130 102.4 67.8 125.8



#38

Bromodichloromethane

Concen: 17.428 ug/L

RT: 9.642 min Scan# 1272

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

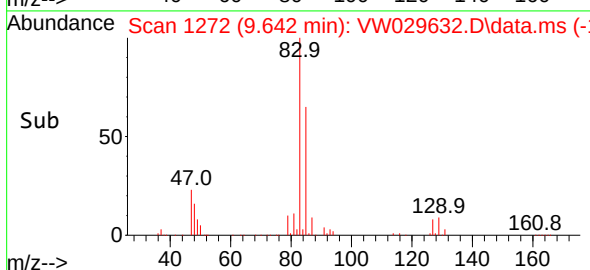
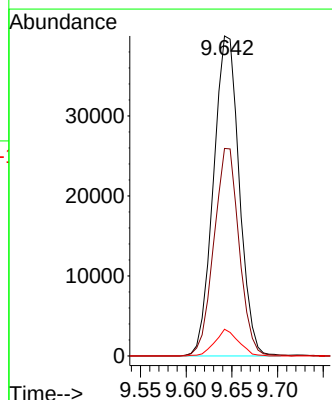
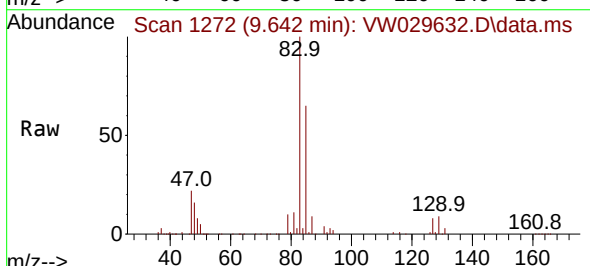
Tgt Ion: 83 Resp: 78512

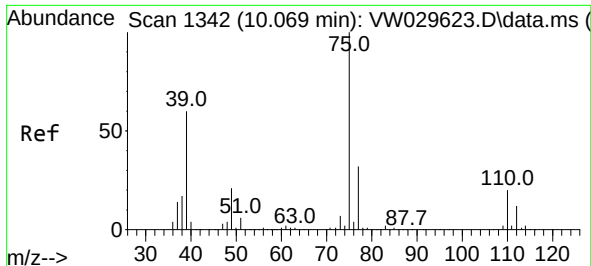
Ion Ratio Lower Upper

83 100

85 64.8 46.1 85.5

127 9.2 6.1 9.1#





#39

cis-1,3-Dichloropropene

Concen: 19.267 ug/L

RT: 10.075 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

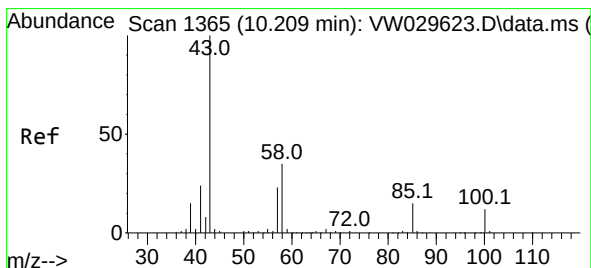
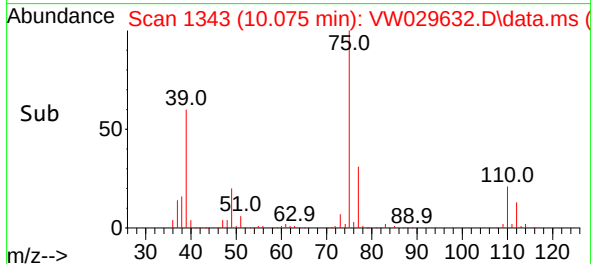
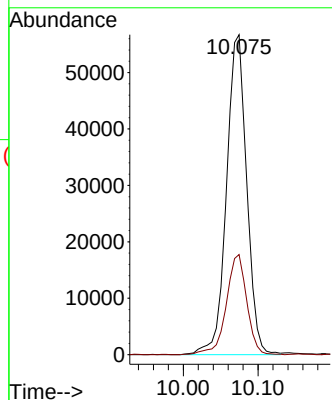
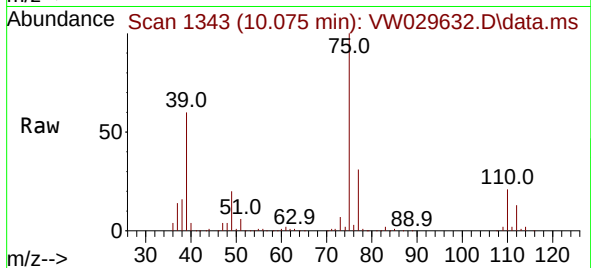
A4DH5DL

Tgt Ion: 75 Resp: 106731

Ion Ratio Lower Upper

75 100

77 31.3 22.2 41.2



#40

4-Methyl-2-pentanone

Concen: 57.697 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

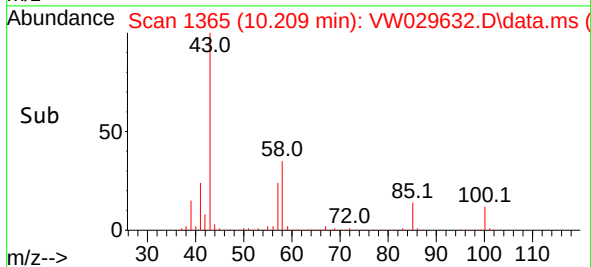
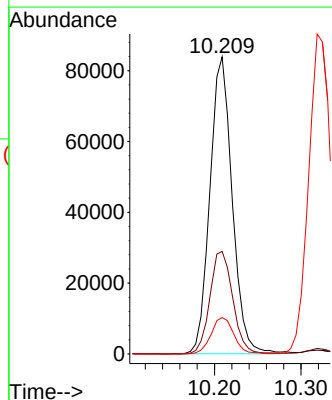
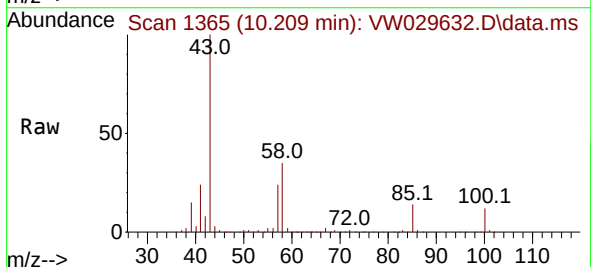
Tgt Ion: 43 Resp: 149974

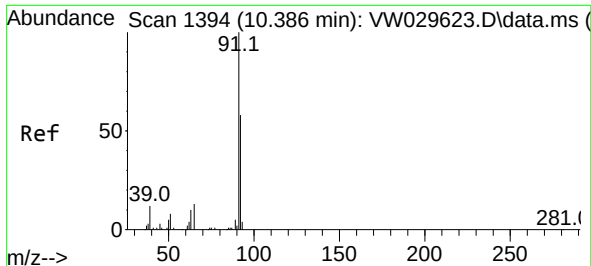
Ion Ratio Lower Upper

43 100

58 35.7 29.0 43.6

100 12.6 10.5 15.7

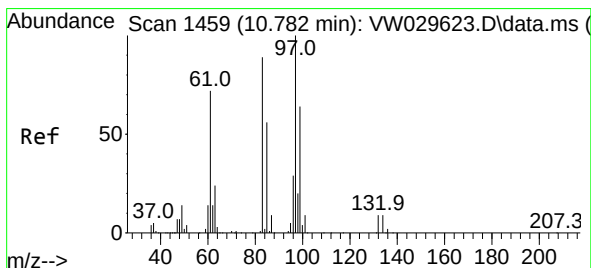
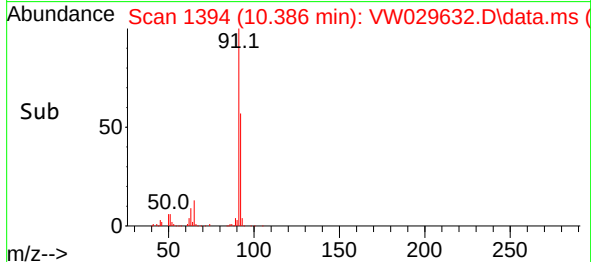
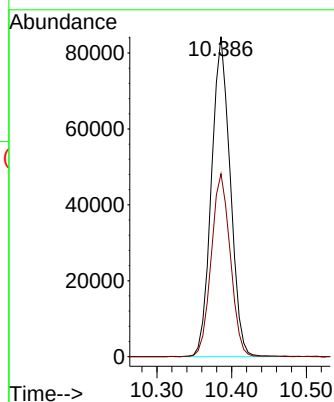
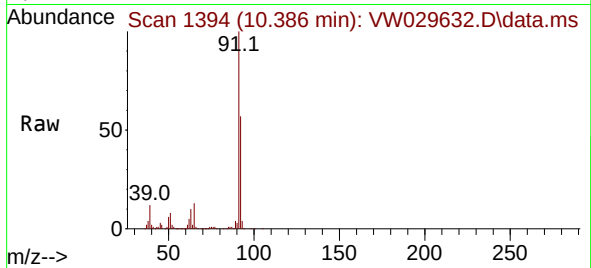




#42
Toluene
Concen: 10.783 ug/L
RT: 10.386 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW029632.D
Acq: 18 Jul 2024 14:40

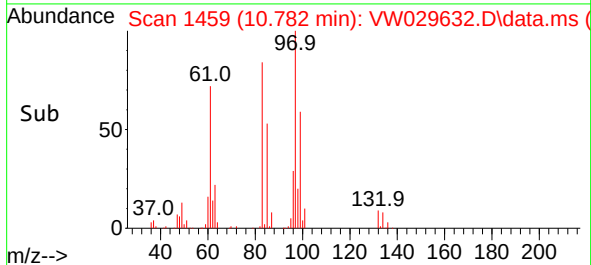
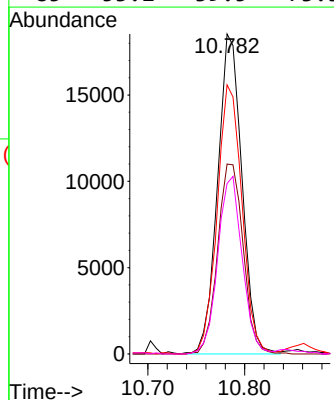
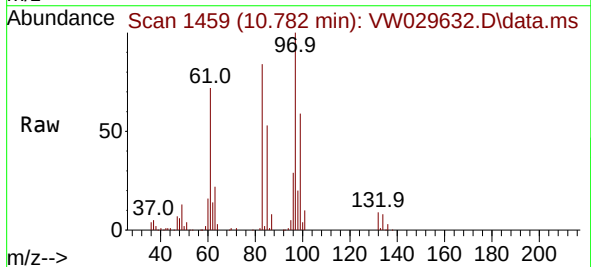
Instrument :
MSVOA_W
ClientSampleId :
A4DH5DL

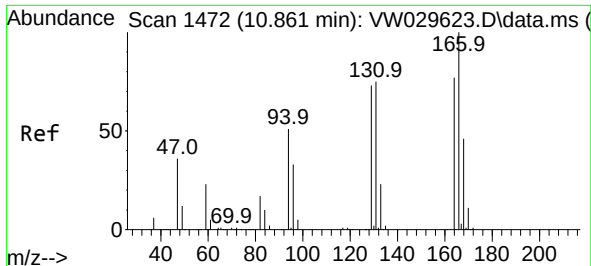
Tgt Ion: 91 Resp: 147129
Ion Ratio Lower Upper
91 100
92 57.2 41.1 76.3



#45
1,1,2-Trichloroethane
Concen: 12.204 ug/L
RT: 10.782 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VW029632.D
Acq: 18 Jul 2024 14:40

Tgt Ion: 97 Resp: 32370
Ion Ratio Lower Upper
97 100
99 59.4 43.8 81.4
83 84.1 60.3 111.9
85 53.2 39.5 73.3

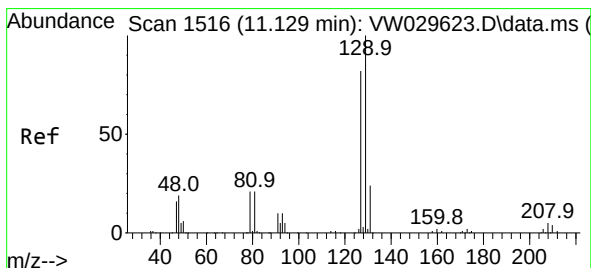
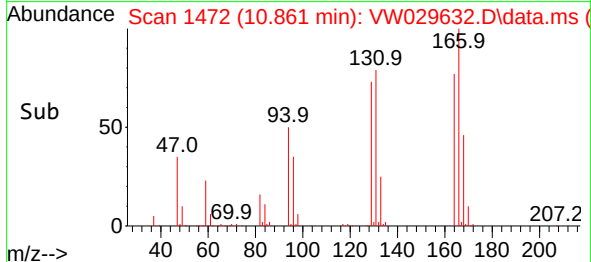
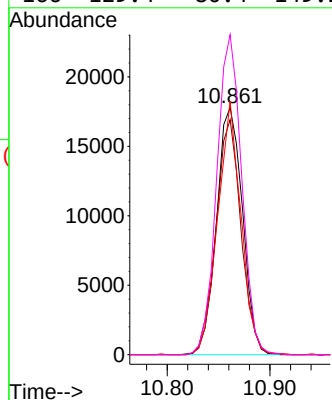
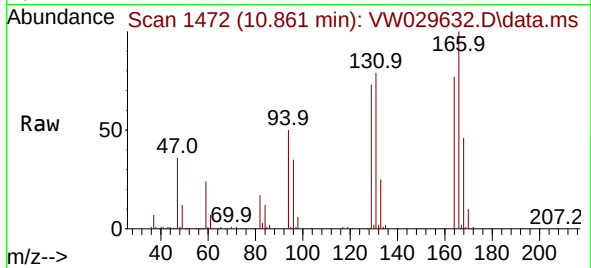




#46
Tetrachloroethene
Concen: 12.448 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VW029632.D
Acq: 18 Jul 2024 14:40

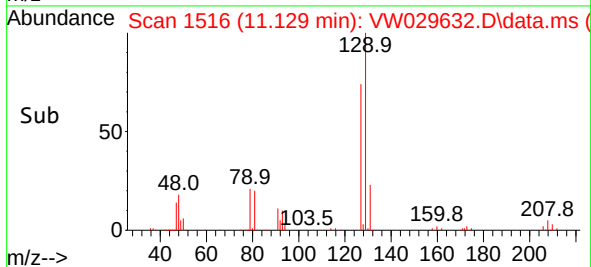
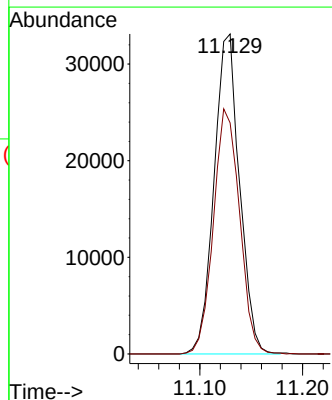
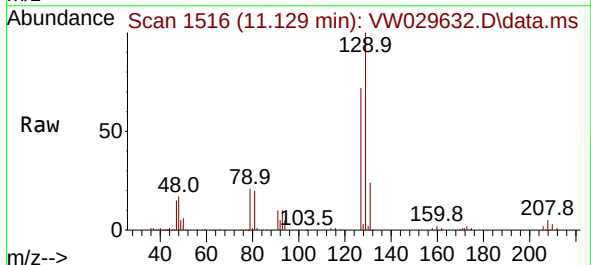
Instrument :
MSVOA_W
ClientSampleId :
A4DH5DL

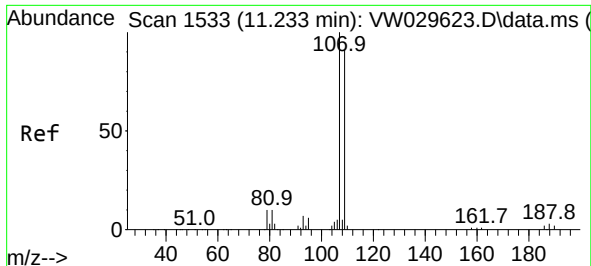
Tgt Ion:	164	Resp:	31149
Ion Ratio	Lower	Upper	
164	100		
129	95.1	60.0	111.4
131	102.6	64.6	120.0
166	129.4	80.4	149.2



#49
Dibromochloromethane
Concen: 20.655 ug/L
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW029632.D
Acq: 18 Jul 2024 14:40

Tgt Ion:	129	Resp:	57016
Ion Ratio	Lower	Upper	
129	100		
127	72.2	51.9	96.3

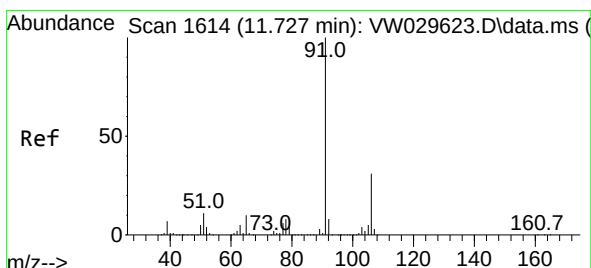
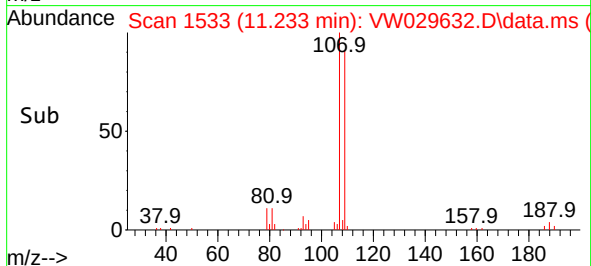
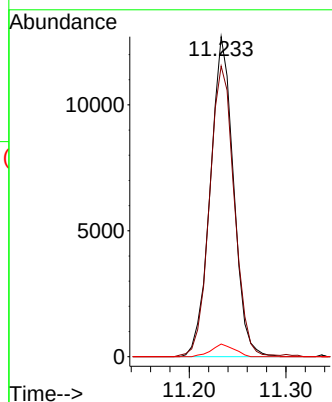
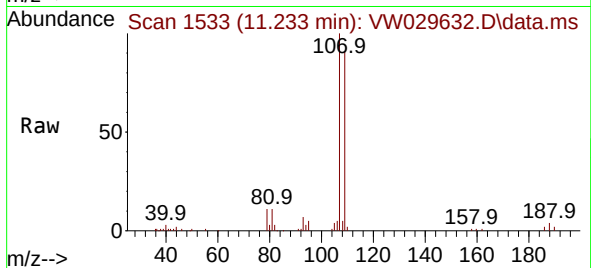




#50
1,2-Dibromoethane
Concen: 8.411 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. 0.000 min
Lab File: VW029632.D
Acq: 18 Jul 2024 14:40

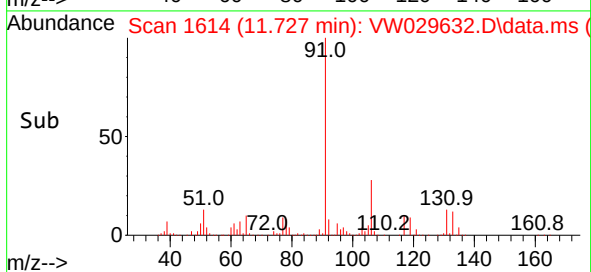
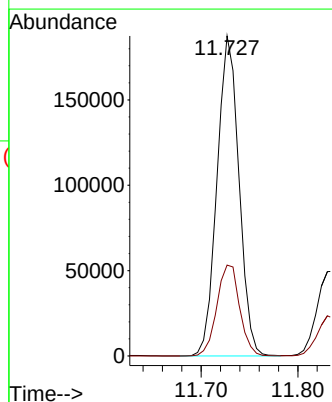
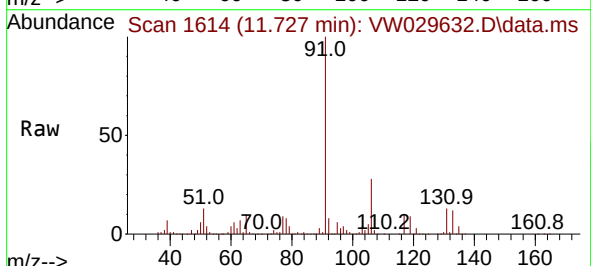
Instrument :
MSVOA_W
ClientSampleId :
A4DH5DL

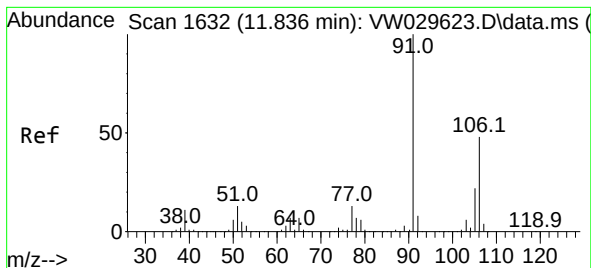
Tgt Ion:107 Resp: 21261
Ion Ratio Lower Upper
107 100
109 90.8 63.2 117.4
188 4.0 2.9 4.3



#52
Ethylbenzene
Concen: 19.100 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW029632.D
Acq: 18 Jul 2024 14:40

Tgt Ion: 91 Resp: 295272
Ion Ratio Lower Upper
91 100
106 28.4 20.2 37.6





#53

m,p-Xylene

Concen: 7.723 ug/L

RT: 11.830 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

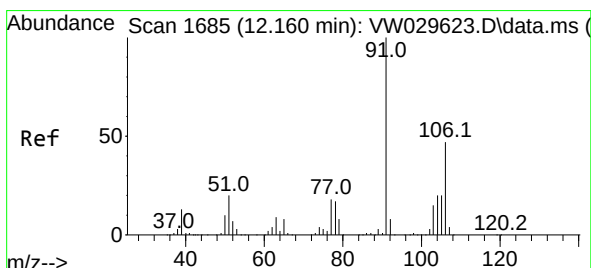
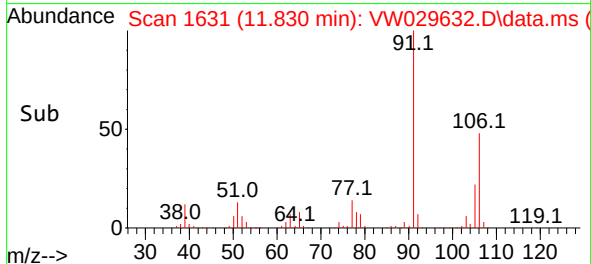
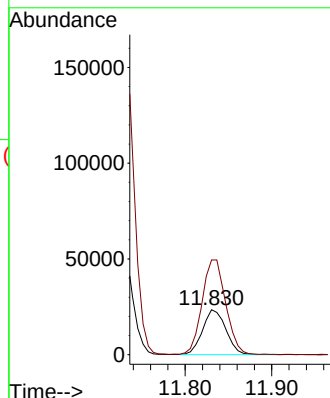
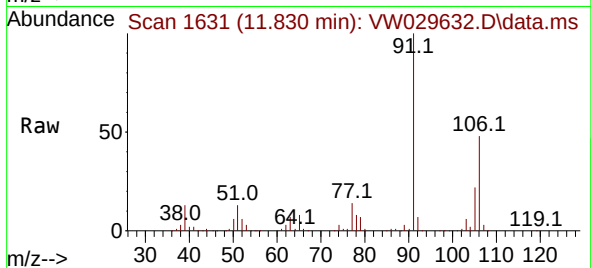
A4DH5DL

Tgt Ion:106 Resp: 43827

Ion Ratio Lower Upper

106 100

91 210.3 149.3 277.3



#54

o-Xylene

Concen: 12.130 ug/L

RT: 12.160 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VW029632.D

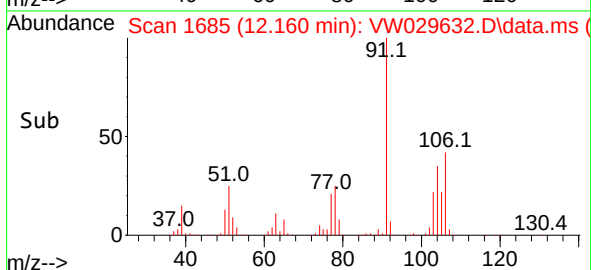
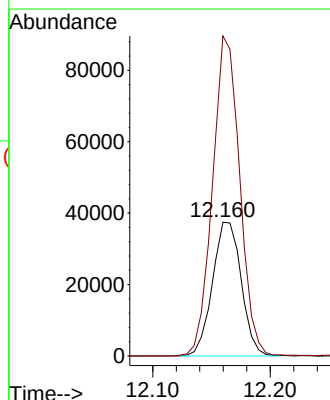
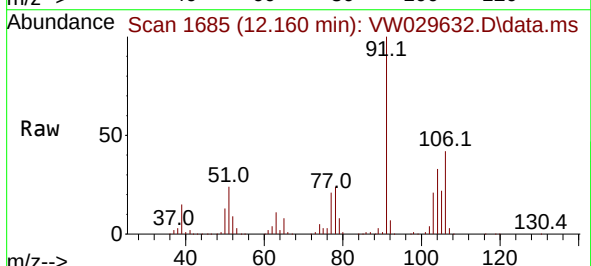
Acq: 18 Jul 2024 14:40

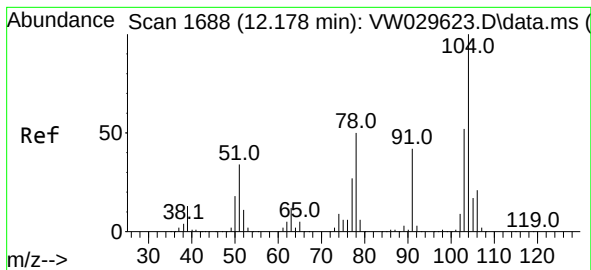
Tgt Ion:106 Resp: 63667

Ion Ratio Lower Upper

106 100

91 239.3 159.2 295.6





#55

Styrene

Concen: 22.450 ug/L

RT: 12.178 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

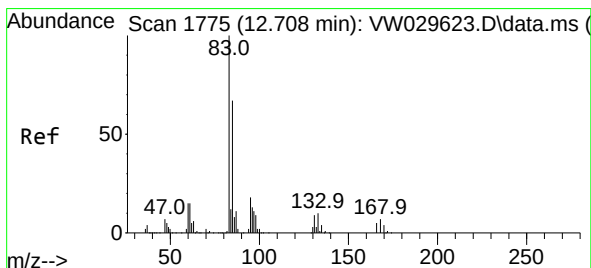
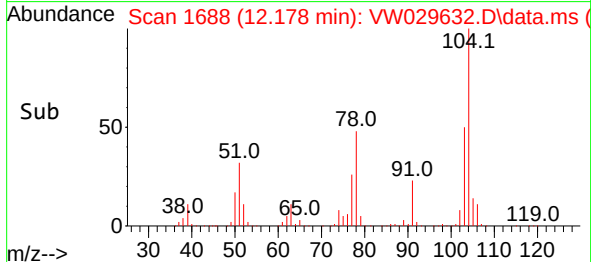
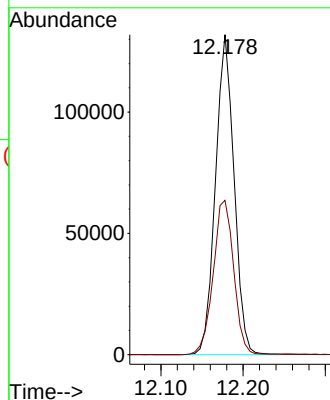
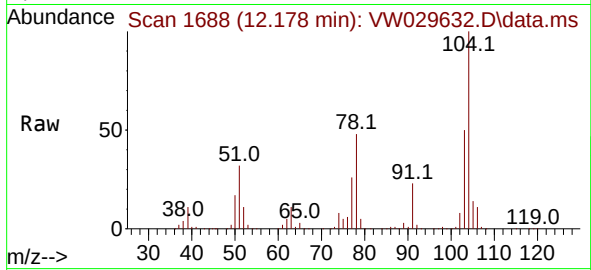
A4DH5DL

Tgt Ion:104 Resp: 207204

Ion Ratio Lower Upper

104 100

78 48.2 34.7 64.5



#57

1,1,2,2-Tetrachloroethane

Concen: 21.645 ug/L

RT: 12.708 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

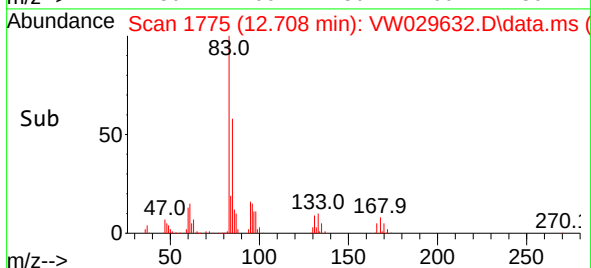
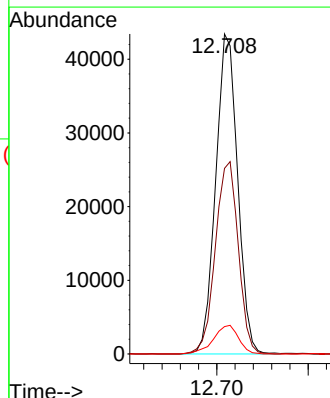
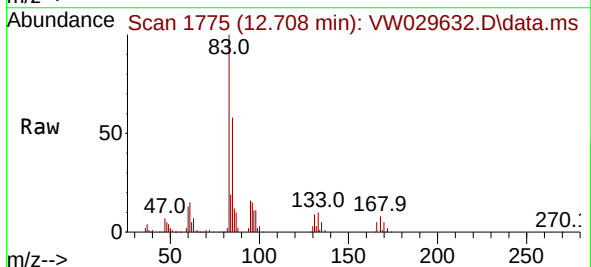
Tgt Ion: 83 Resp: 72420

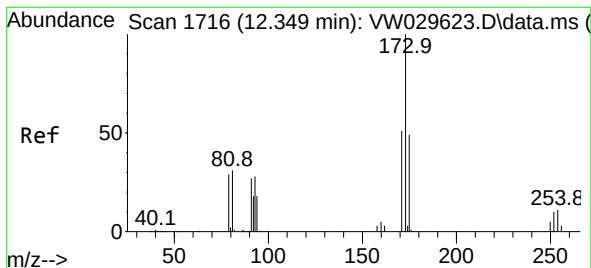
Ion Ratio Lower Upper

83 100

85 58.0 45.4 84.4

131 8.6 6.4 9.6





#59

Bromoform

Concen: 22.262 ug/L

RT: 12.349 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

A4DH5DL

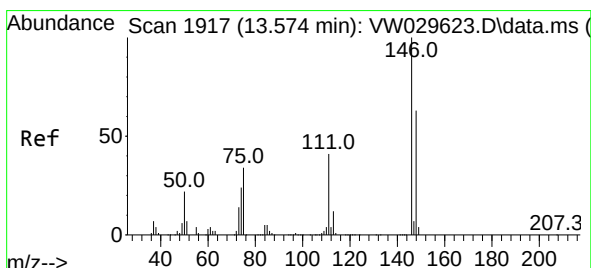
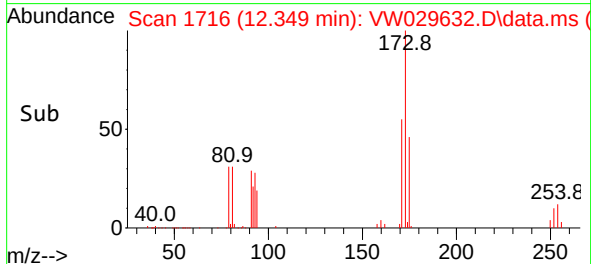
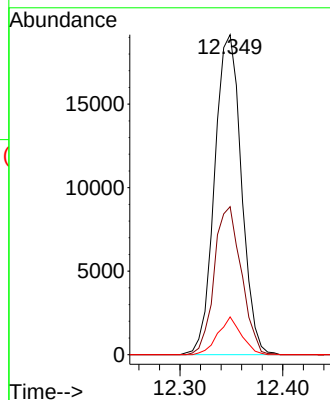
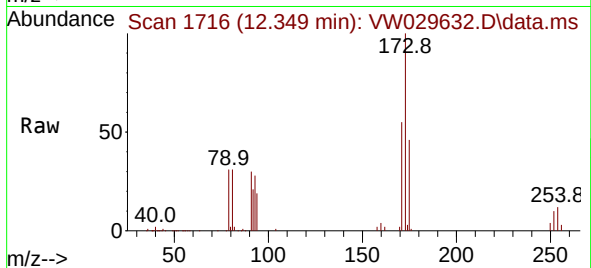
Tgt Ion:173 Resp: 34653

Ion Ratio Lower Upper

173 100

175 46.7 40.4 60.6

254 10.4 8.8 13.2



#65

1,4-Dichlorobenzene

Concen: 18.756 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW029632.D

Acq: 18 Jul 2024 14:40

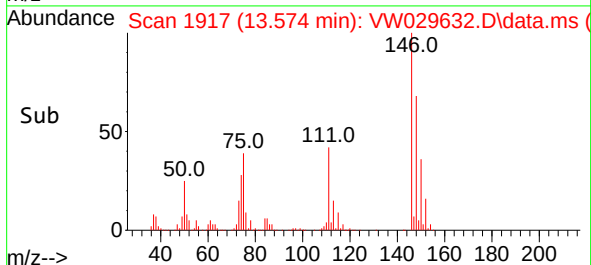
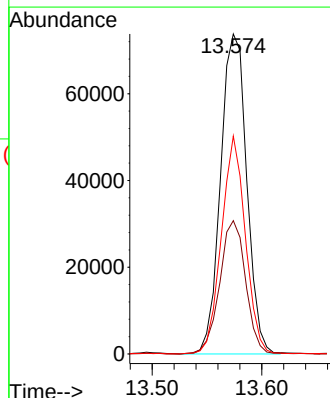
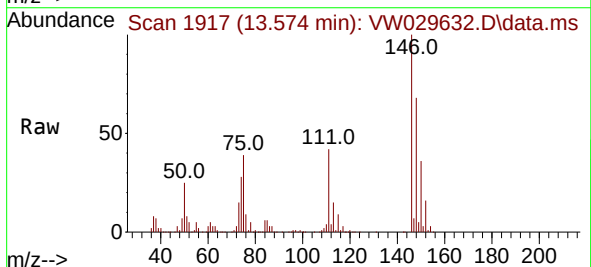
Tgt Ion:146 Resp: 122200

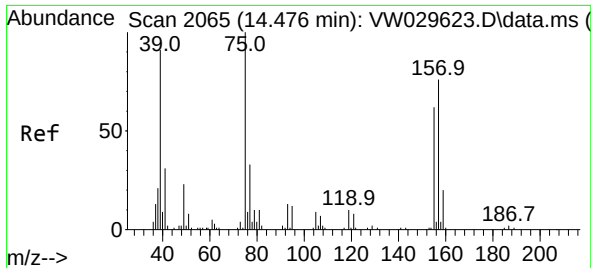
Ion Ratio Lower Upper

146 100

111 41.6 27.6 51.4

148 68.1 40.9 75.9





#68

1,2-Dibromo-3-chloropropane

Concen: 18.299 ug/L

RT: 14.482 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VW029632.D

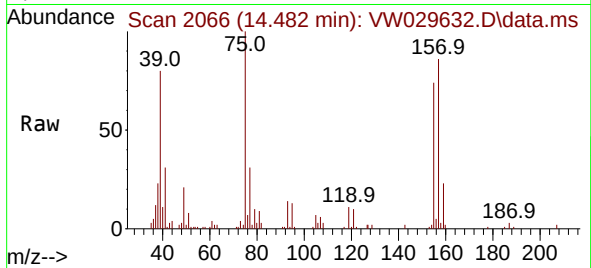
Acq: 18 Jul 2024 14:40

Instrument :

MSVOA_W

ClientSampleId :

A4DH5DL



Tgt Ion: 75 Resp: 10676

Ion Ratio Lower Upper

75 100

155 74.3 51.2 76.8

157 86.3 63.7 95.5

