

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW060424\
 Data File : VW028991.D
 Acq On : 04 Jun 2024 13:24
 Operator : SY/MD
 Sample : P2710-18
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A4DH0

Quant Time: Jun 05 00:48:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM060324SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Jun 05 00:46:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	353835	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	318808	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	157463	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	117751	20.948	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.800%
7) Chloroethane-d5	2.899	69	87112	20.181	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.720%
11) 1,1-Dichloroethene-d2	4.021	65	52011	21.052	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.200%
21) 2-Butanone-d5	7.069	46	55566	48.382	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.760%
24) Chloroform-d	7.648	84	235433	23.323	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.280%
26) 1,2-Dichloroethane-d4	8.301	65	113871	21.427	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	85.720%
32) Benzene-d6	8.276	84	425742	21.758	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.040%
36) 1,2-Dichloropropane-d6	9.270	67	127231	21.445	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	85.800%
41) Toluene-d8	10.319	98	387691	22.202	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.800%
43) trans-1,3-Dichloroprop...	10.575	79	51105	22.417	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.680%
47) 2-Hexanone-d5	10.922	63	38723	49.460	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.920%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	103130	25.022	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.080%
66) 1,2-Dichlorobenzene-d4	13.848	152	121630	21.767	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	87.080%
Target Compounds						Qvalue
12) 1,1-Dichloroethene	4.039	96	156864	35.073	ug/L	86
13) Acetone	4.118	43	156229	129.805	ug/L	99
16) Methylene chloride	4.917	84	189471	35.679	ug/L	94
17) trans-1,2-Dichloroethene	5.423	96	379929	77.912	ug/L	98
18) Methyl tert-butyl Ether	5.429	73	332852	48.949	ug/L	100
19) 1,1-Dichloroethane	6.216	63	513983	53.611	ug/L	99
20) cis-1,2-Dichloroethene	7.167	96	381378	74.600	ug/L	98
22) 2-Butanone	7.167	43	143886	99.211	ug/L	97
25) Chloroform	7.673	83	791728	85.026	ug/L	97
27) 1,2-Dichloroethane	8.398	62	140258	22.477	ug/L	100
31) Carbon tetrachloride	8.069	117	84702	12.589	ug/L	98
33) Benzene	8.319	78	1164631	58.750	ug/L	100
34) Trichloroethene	9.087	95	439151	84.264	ug/L	95
37) 1,2-Dichloropropane	9.367	63	227243	43.775	ug/L	99
38) Bromodichloromethane	9.642	83	367811	58.096	ug/L	100
39) cis-1,3-Dichloropropene	10.069	75	504889	66.924	ug/L	95
40) 4-Methyl-2-pentanone	10.203	43	645664	244.531	ug/L	99
42) Toluene	10.386	91	1443995	71.305	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	56741	9.329	ug/L	99

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

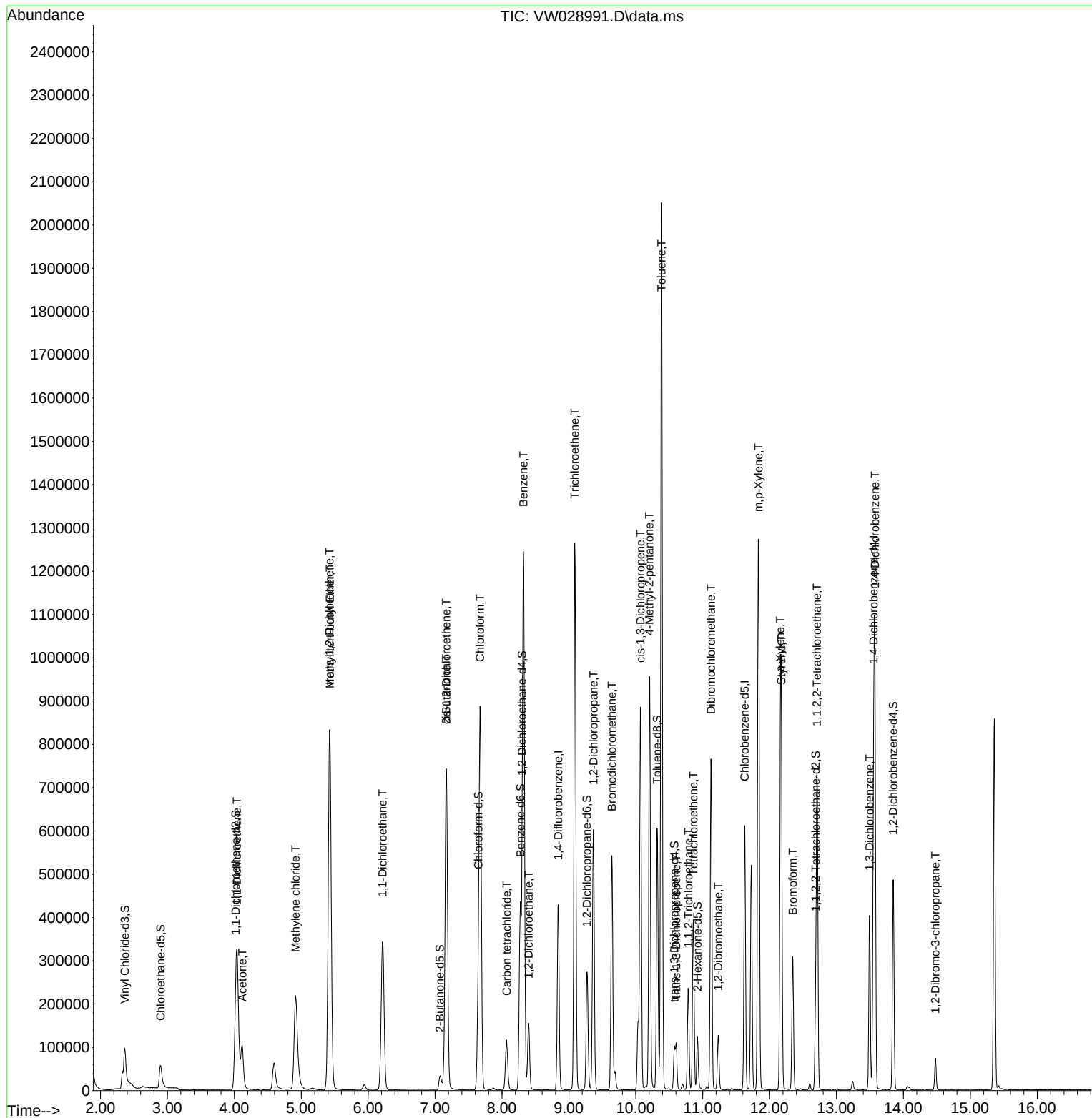
45) 1,1,2-Trichloroethane	10.788	97	71395	20.364	ug/L	94
46) Tetrachloroethene	10.861	164	87642	22.134	ug/L	87
49) Dibromochloromethane	11.123	129	393109	106.159	ug/L	99
50) 1,2-Dibromoethane	11.233	107	84587	26.430	ug/L	92
53) m,p-Xylene	11.837	106	395881	46.452	ug/L	88
54) o-Xylene	12.160	106	174325	22.091	ug/L	94
55) Styrene	12.178	104	298134	21.914	ug/L	100
57) 1,1,2,2-Tetrachloroethane	12.708	83	353151	89.230	ug/L	100
59) Bromoform	12.349	173	138782	68.541	ug/L	100
64) 1,3-Dichlorobenzene	13.495	146	152796	15.955	ug/L	93
65) 1,4-Dichlorobenzene	13.574	146	361567	36.150	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.476	75	19174	30.287	ug/L	95

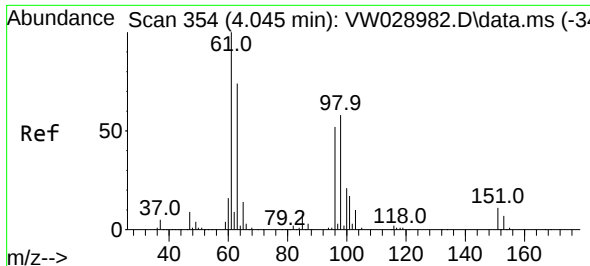
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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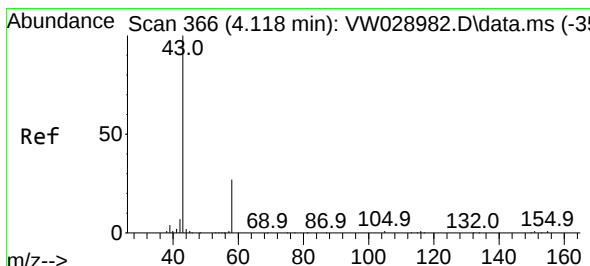
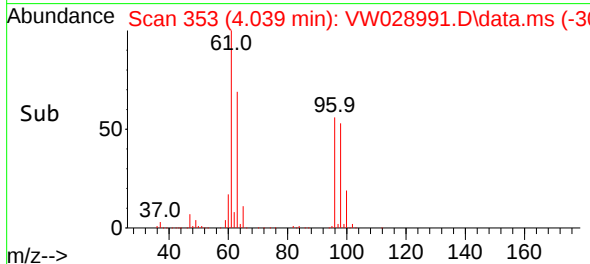
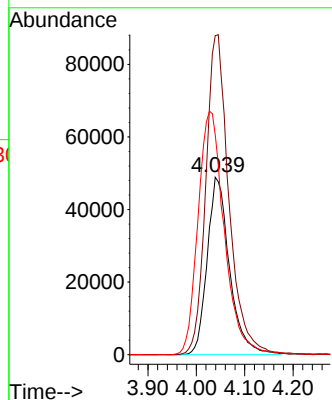
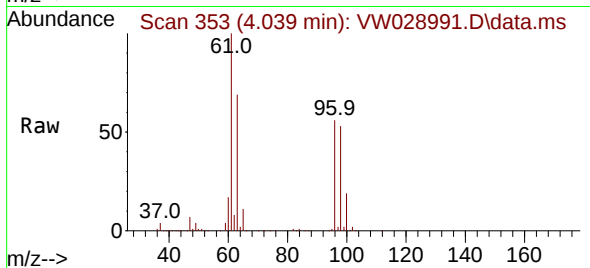




#12
1,1-Dichloroethene
Concen: 35.073 ug/L
RT: 4.039 min Scan# 31
Delta R.T. -0.006 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

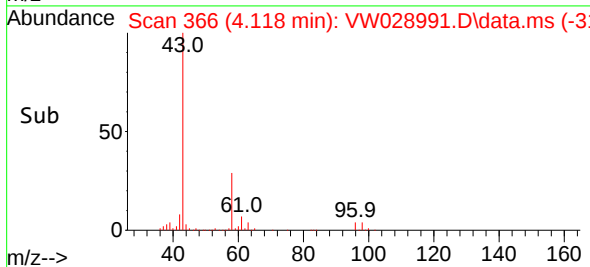
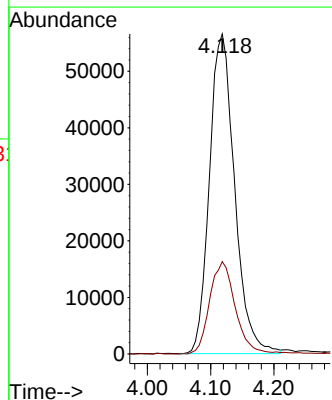
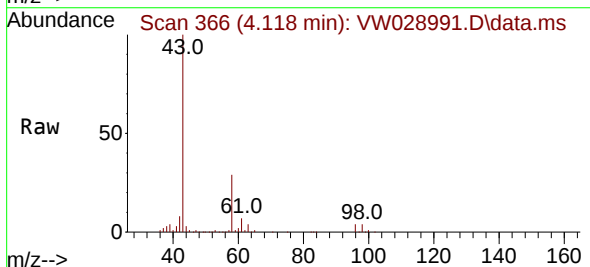
Instrument :
MSVOA_W
ClientSampleId :
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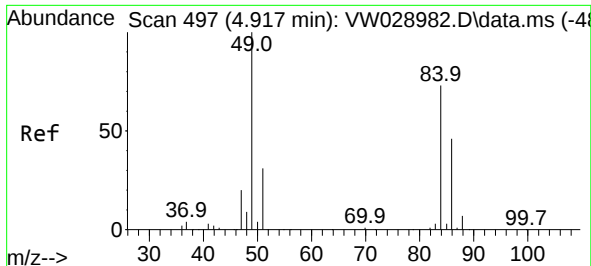
Tgt Ion: 96 Resp: 156864
Ion Ratio Lower Upper
96 100
61 179.9 132.2 245.4
63 123.9 108.4 201.2



#13
Acetone
Concen: 129.805 ug/L
RT: 4.118 min Scan# 366
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion: 43 Resp: 156229
Ion Ratio Lower Upper
43 100
58 29.2 0.0 59.4

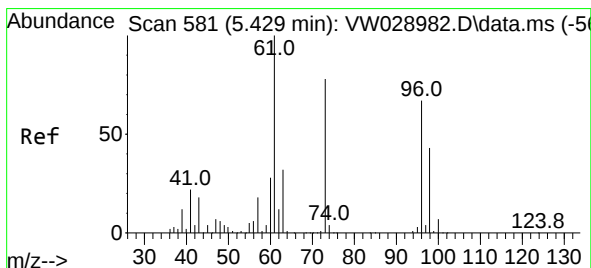
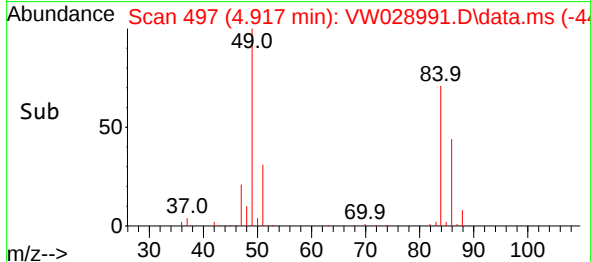
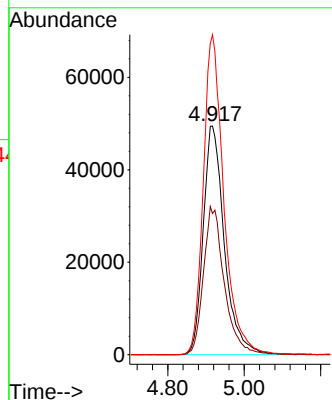
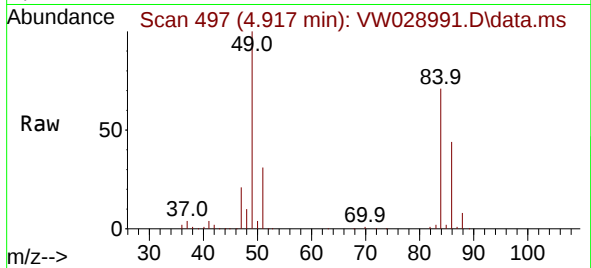




#16
Methylene chloride
Concen: 35.679 ug/L
RT: 4.917 min Scan# 49
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

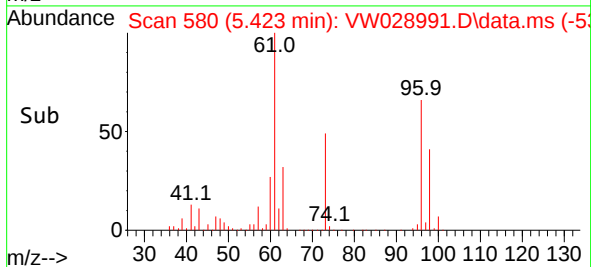
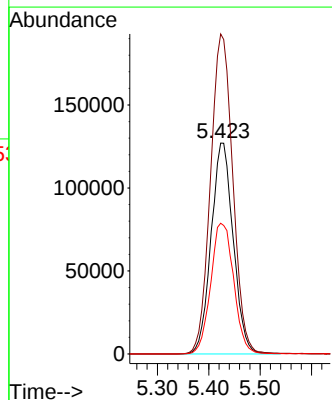
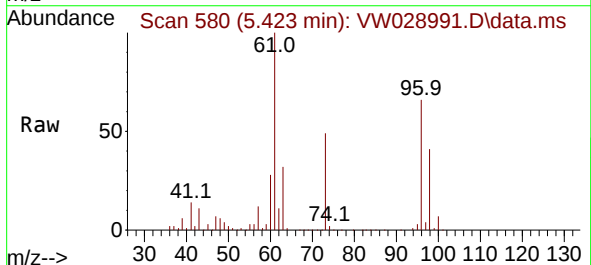
Instrument :
MSVOA_W
ClientSampleId :
A4DH0

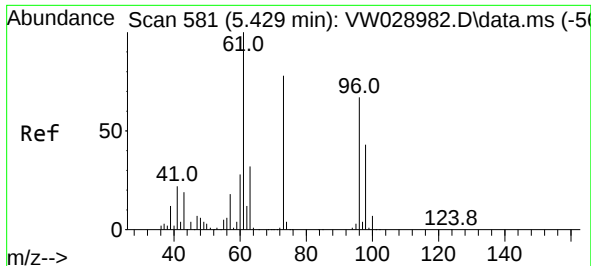
Tgt Ion: 84 Resp: 189471
Ion Ratio Lower Upper
84 100
86 61.8 43.8 81.4
49 140.0 91.3 169.5



#17
trans-1,2-Dichloroethene
Concen: 77.912 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion: 96 Resp: 379929
Ion Ratio Lower Upper
96 100
61 151.7 104.6 194.2
98 62.0 44.0 81.8

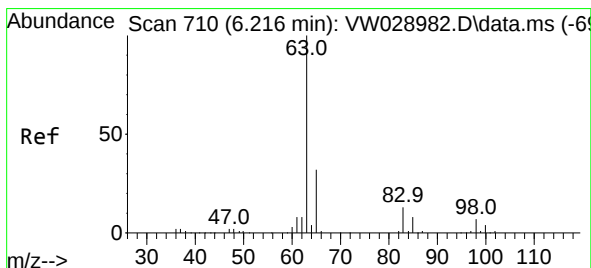
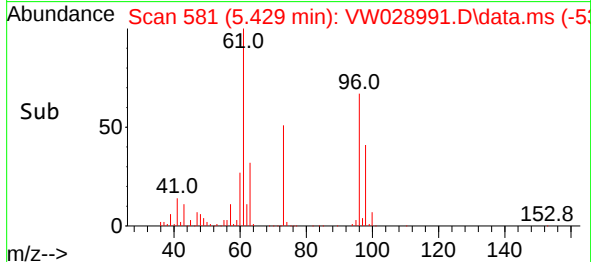
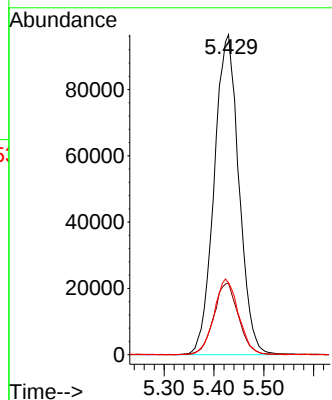
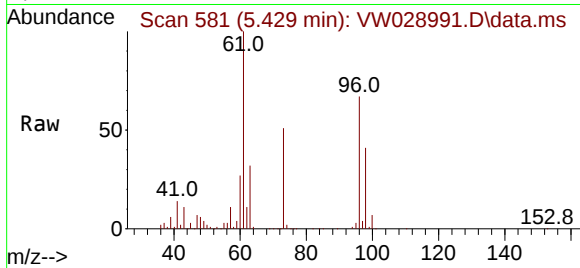




#18
Methyl tert-butyl Ether
Concen: 48.949 ug/L
RT: 5.429 min Scan# 51
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

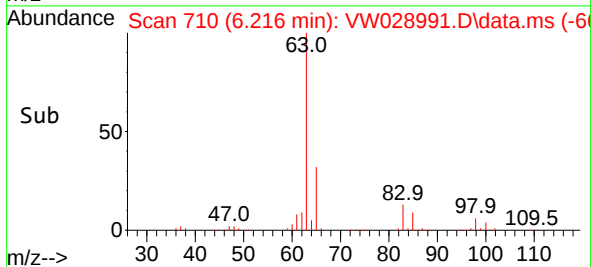
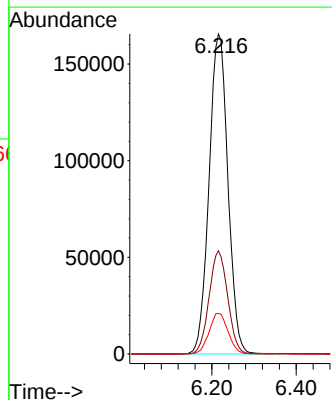
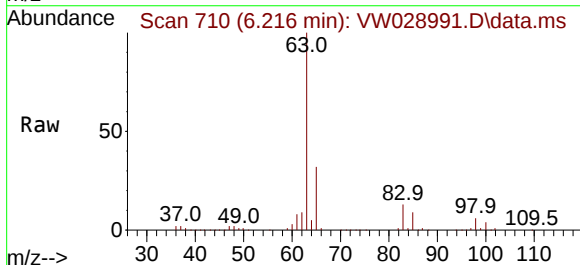
Instrument :
MSVOA_W
ClientSampleId :
A4DH0

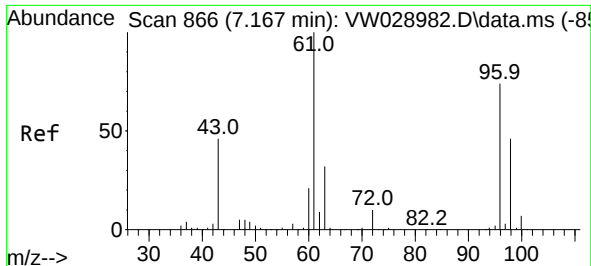
Tgt Ion: 73 Resp: 332852
Ion Ratio Lower Upper
73 100
43 22.3 17.8 26.6
57 23.3 18.4 27.6



#19
1,1-Dichloroethane
Concen: 53.611 ug/L
RT: 6.216 min Scan# 710
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion: 63 Resp: 513983
Ion Ratio Lower Upper
63 100
65 32.2 21.8 40.6
83 12.7 8.8 16.3



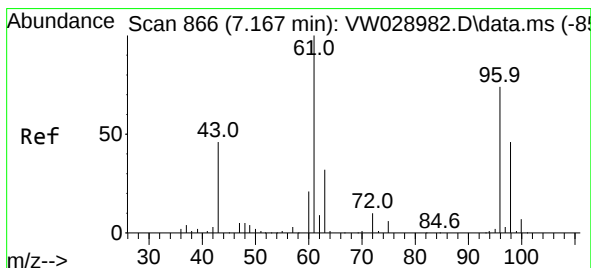
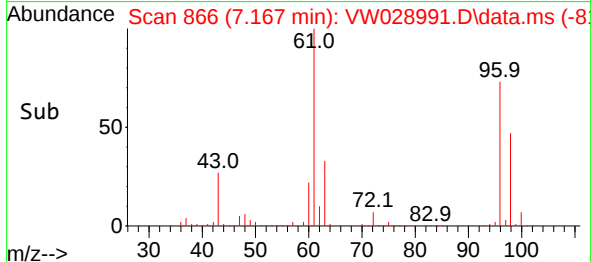
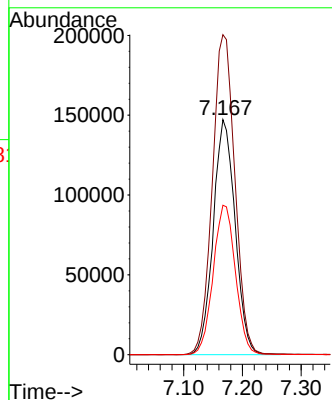
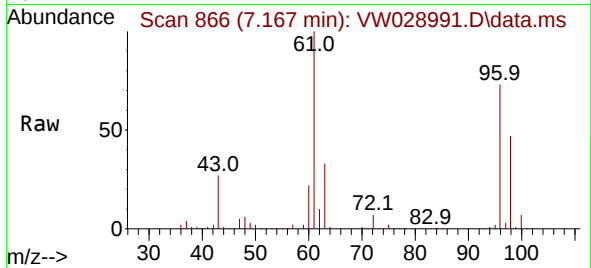


#20
 cis-1,2-Dichloroethene
 Concen: 74.600 ug/L
 RT: 7.167 min Scan# 866
 Delta R.T. 0.000 min
 Lab File: VW028991.D
 Acq: 04 Jun 2024 13:24

Instrument :
 MSVOA_W
 ClientSampleId :
 A4DH0

Tgt Ion: 96 Resp: 381378

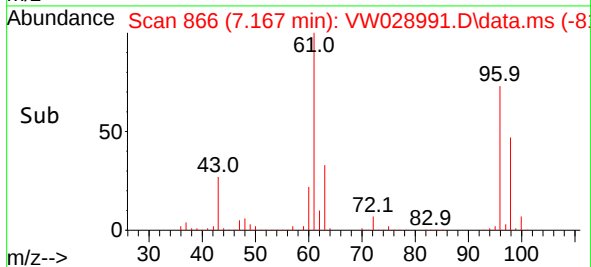
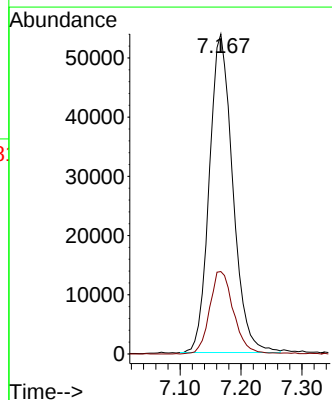
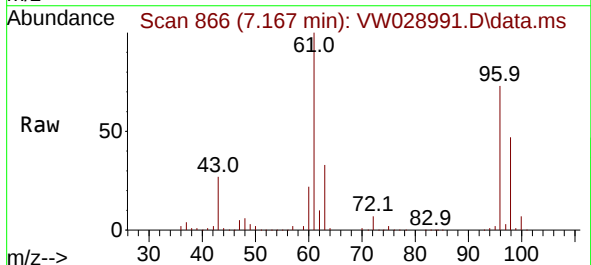
Ion	Ratio	Lower	Upper
96	100		
61	136.2	92.9	172.5
98	63.6	45.2	84.0

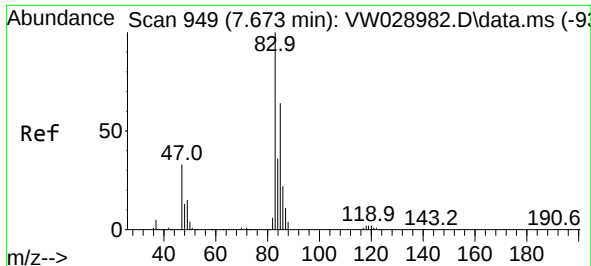


#22
 2-Butanone
 Concen: 99.211 ug/L
 RT: 7.167 min Scan# 866
 Delta R.T. 0.000 min
 Lab File: VW028991.D
 Acq: 04 Jun 2024 13:24

Tgt Ion: 43 Resp: 143886

Ion	Ratio	Lower	Upper
43	100		
72	26.3	12.5	37.5

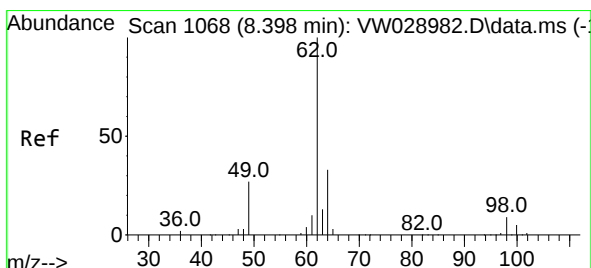
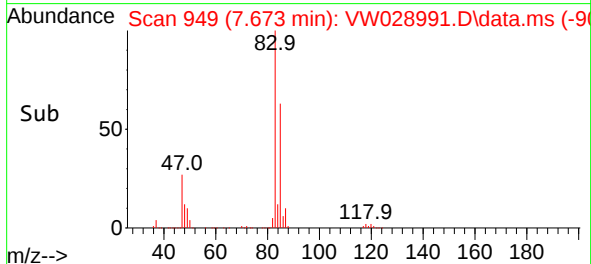
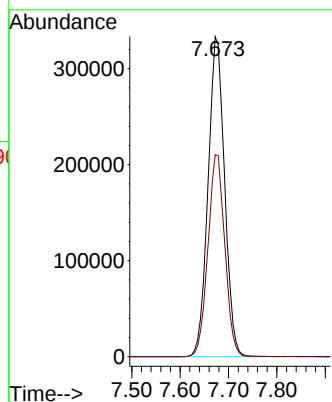
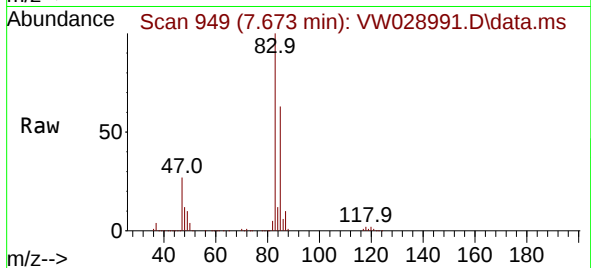




#25
Chloroform
Concen: 85.026 ug/L
RT: 7.673 min Scan# 949
Delta R.T. 0.000 min
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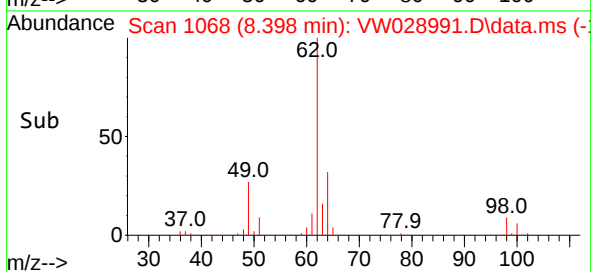
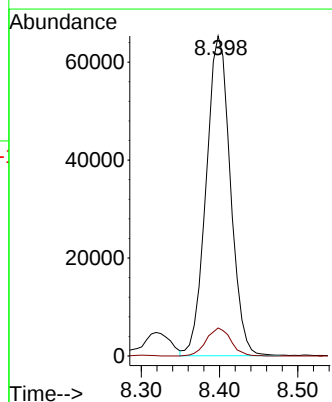
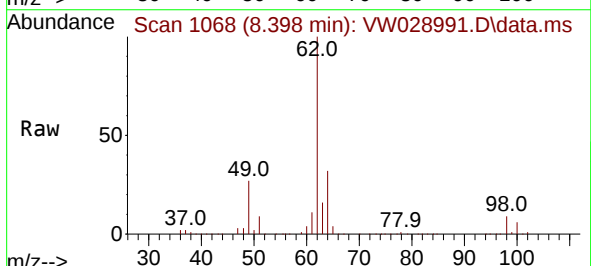
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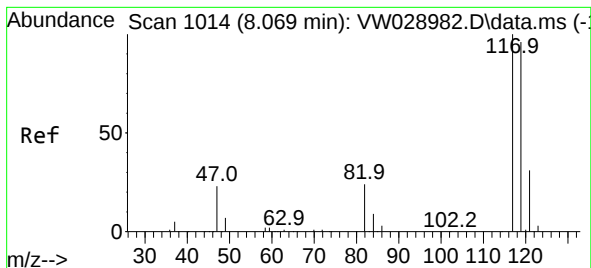
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Ion Ratio Lower Upper
83 100
85 63.1 45.8 85.2



#27
1,2-Dichloroethane
Concen: 22.477 ug/L
RT: 8.398 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion: 62 Resp: 140258
Ion Ratio Lower Upper
62 100
98 8.8 7.1 10.7

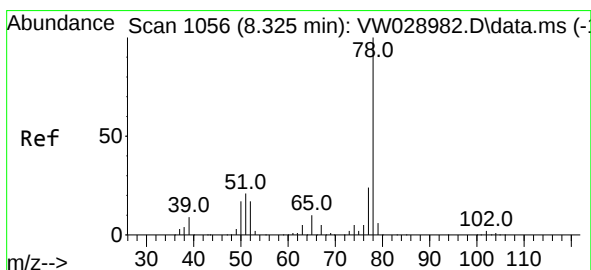
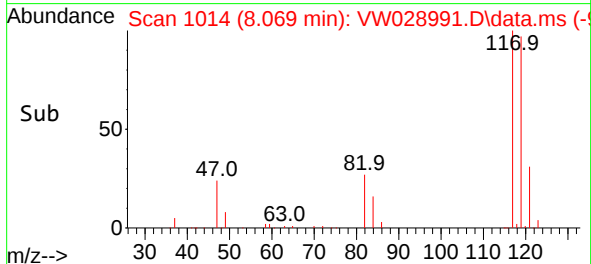
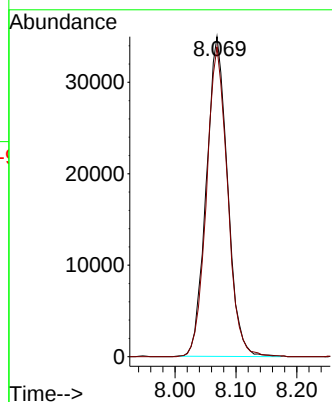
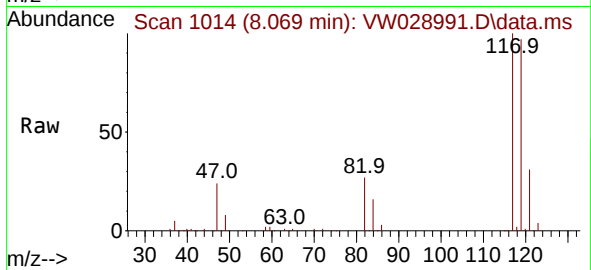




#31
Carbon tetrachloride
Concen: 12.589 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

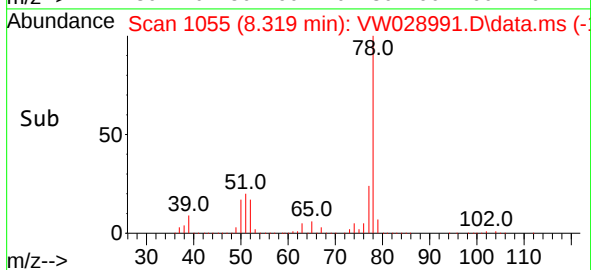
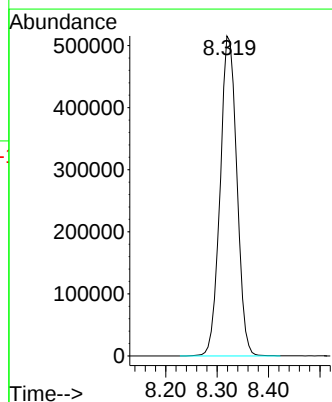
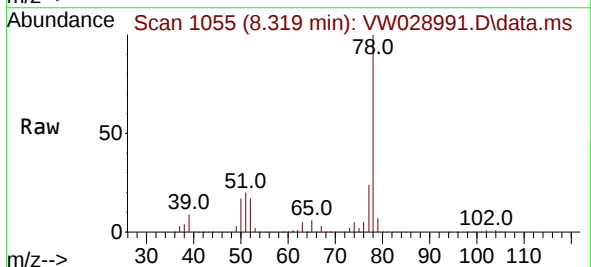
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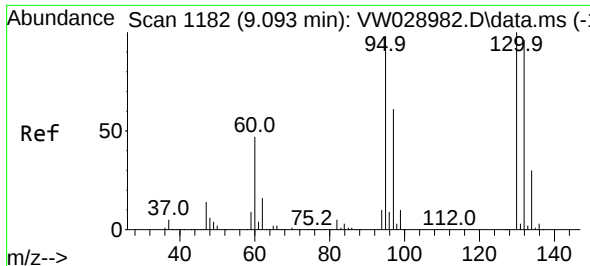
Tgt Ion:117 Resp: 84702
Ion Ratio Lower Upper
117 100
119 96.2 78.8 118.2



#33
Benzene
Concen: 58.750 ug/L
RT: 8.319 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion: 78 Resp: 1164631



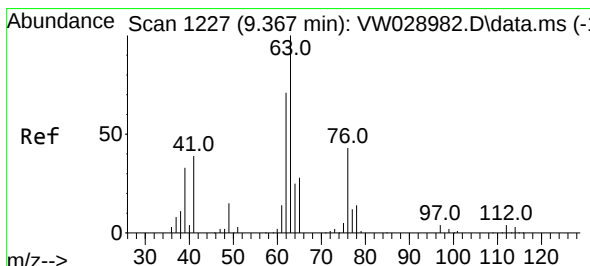
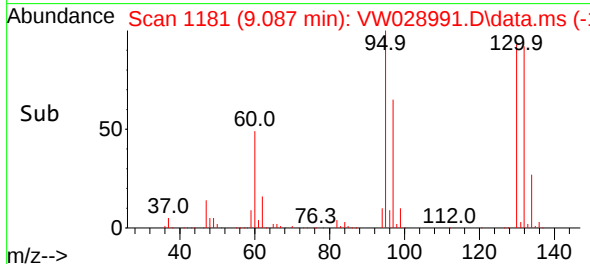
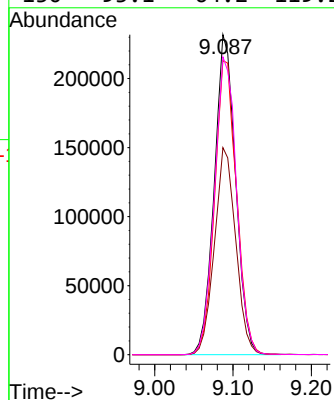
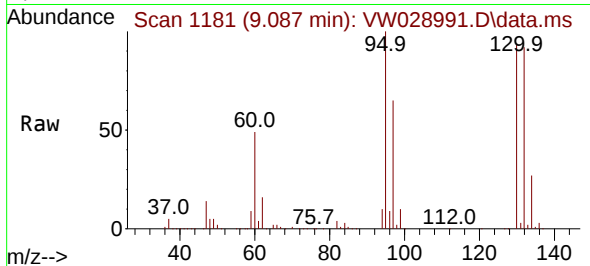


#34
Trichloroethene
Concen: 84.264 ug/L
RT: 9.087 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Instrument :
MSVOA_W
ClientSampleId :
A4DH0

Tgt Ion: 95 Resp: 439151

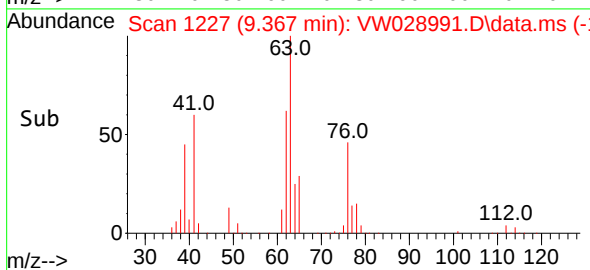
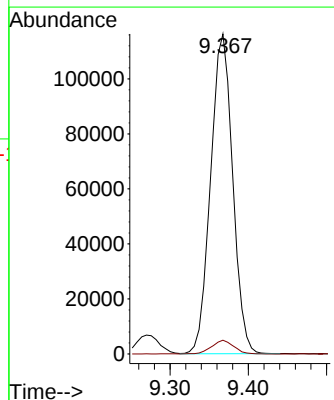
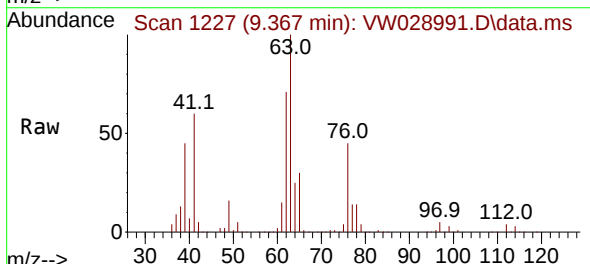
Ion	Ratio	Lower	Upper
95	100		
97	64.7	41.9	77.7
132	91.9	60.1	111.5
130	93.1	64.2	119.2

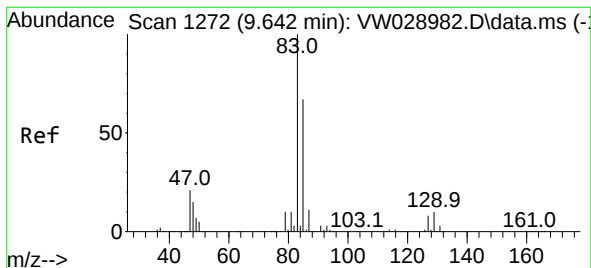


#37
1,2-Dichloropropane
Concen: 43.775 ug/L
RT: 9.367 min Scan# 1227
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion: 63 Resp: 227243

Ion	Ratio	Lower	Upper
63	100		
112	4.3	3.6	5.4





#38

Bromodichloromethane

Concen: 58.096 ug/L

RT: 9.642 min Scan# 1272

Delta R.T. 0.000 min

Lab File: VW028991.D

Acq: 04 Jun 2024 13:24

Instrument :

MSVOA_W

ClientSampleId :

A4DH0

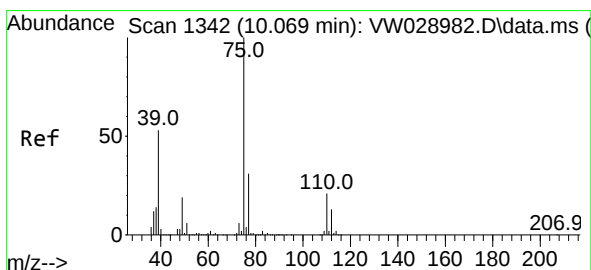
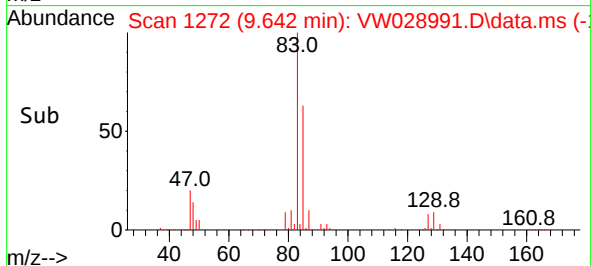
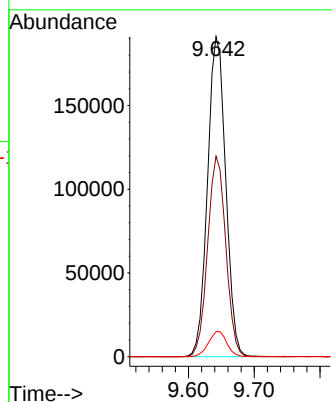
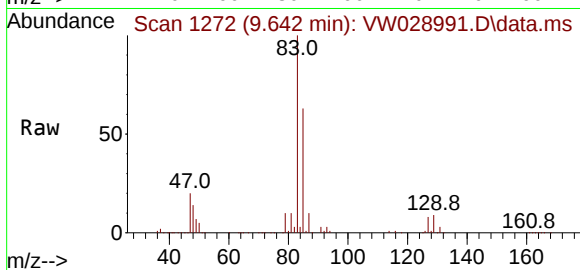
Tgt Ion: 83 Resp: 367811

Ion Ratio Lower Upper

83 100

85 62.7 43.9 81.5

127 7.8 5.4 8.2



#39

cis-1,3-Dichloropropene

Concen: 66.924 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VW028991.D

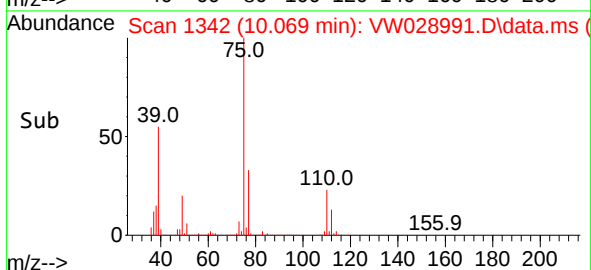
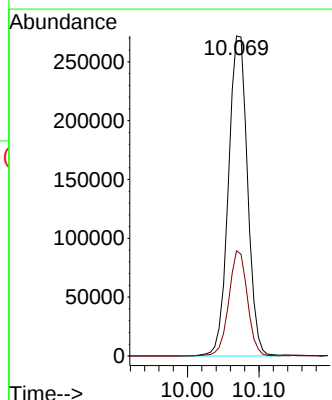
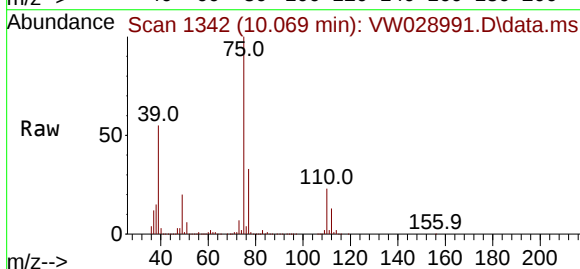
Acq: 04 Jun 2024 13:24

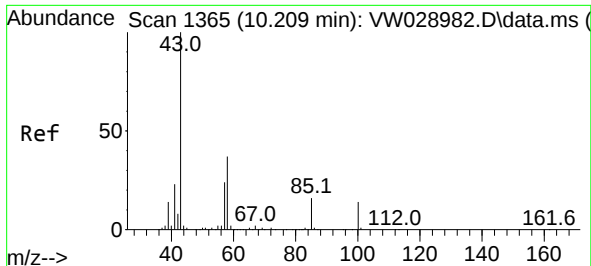
Tgt Ion: 75 Resp: 504889

Ion Ratio Lower Upper

75 100

77 32.8 21.0 39.0





#40

4-Methyl-2-pentanone

Concen: 244.531 ug/L

RT: 10.203 min Scan# 1364

Delta R.T. -0.006 min

Lab File: VW028991.D

Acq: 04 Jun 2024 13:24

Instrument :

MSVOA_W

ClientSampleId :

A4DH0

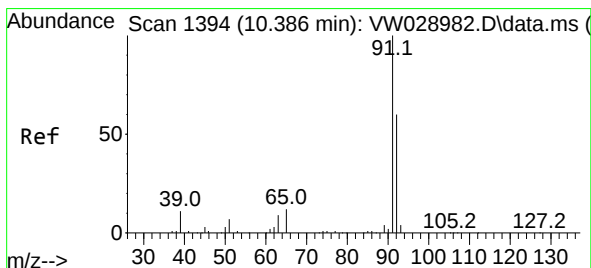
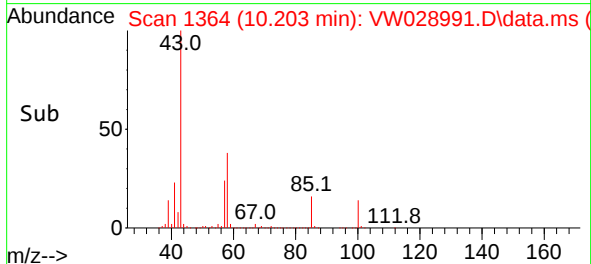
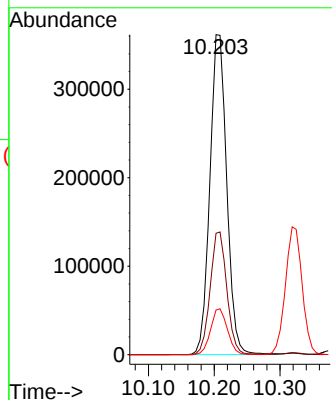
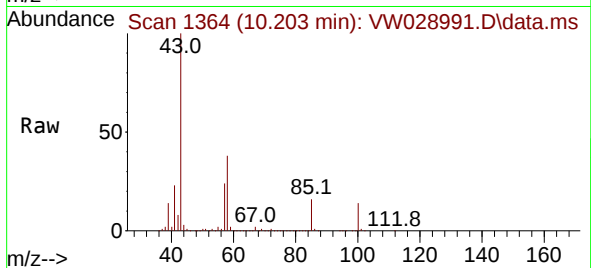
Tgt Ion: 43 Resp: 645664

Ion Ratio Lower Upper

43 100

58 38.0 30.3 45.5

100 14.3 10.7 16.1



#42

Toluene

Concen: 71.305 ug/L

RT: 10.386 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VW028991.D

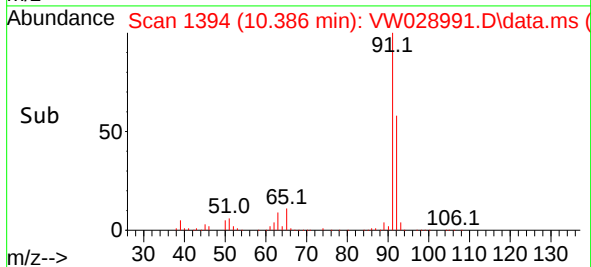
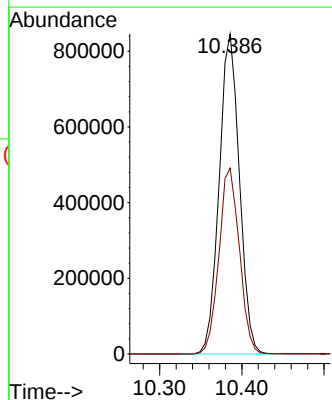
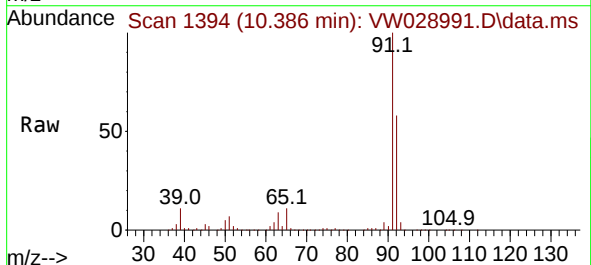
Acq: 04 Jun 2024 13:24

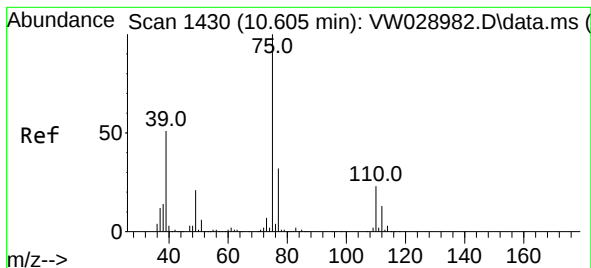
Tgt Ion: 91 Resp: 1443995

Ion Ratio Lower Upper

91 100

92 58.1 41.2 76.4





#44

trans-1,3-Dichloropropene

Concen: 9.329 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW028991.D

Acq: 04 Jun 2024 13:24

Instrument :

MSVOA_W

ClientSampleId :

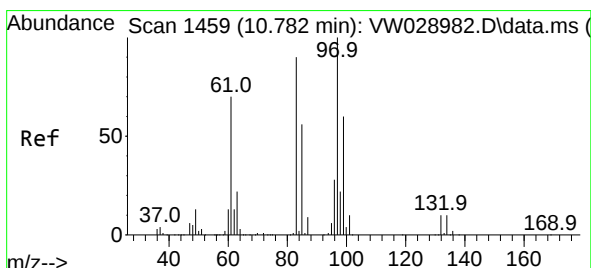
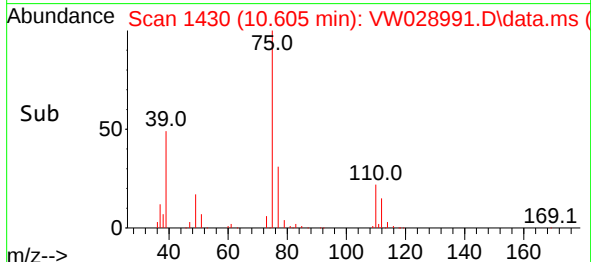
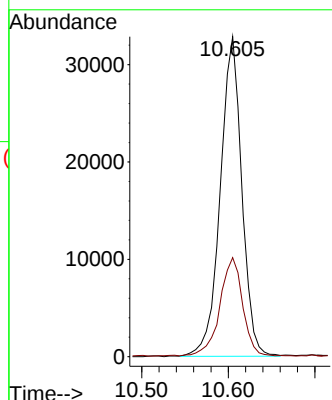
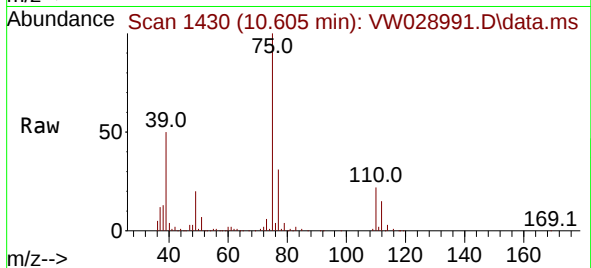
A4DH0

Tgt Ion: 75 Resp: 56741

Ion Ratio Lower Upper

75 100

77 31.0 22.0 40.8



#45

1,1,2-Trichloroethane

Concen: 20.364 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. 0.006 min

Lab File: VW028991.D

Acq: 04 Jun 2024 13:24

Tgt Ion: 97 Resp: 71395

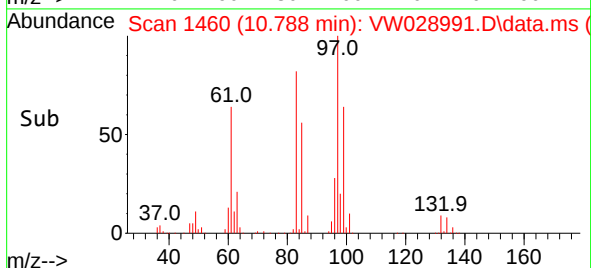
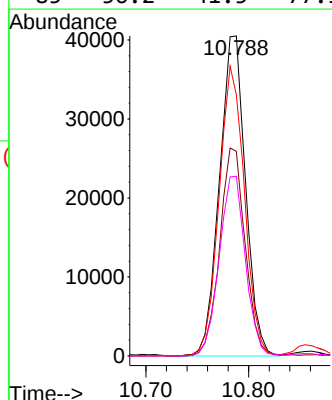
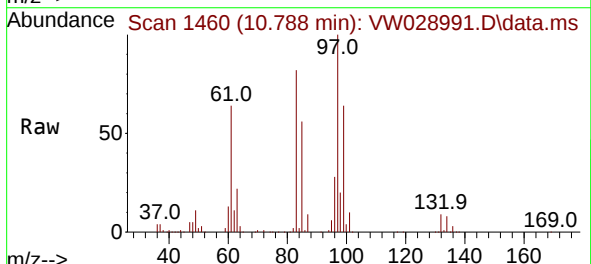
Ion Ratio Lower Upper

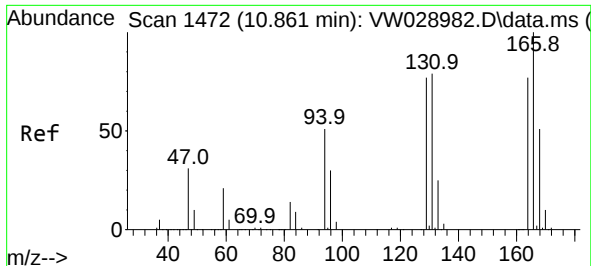
97 100

99 64.0 41.8 77.6

83 81.6 62.4 115.8

85 56.2 41.5 77.1

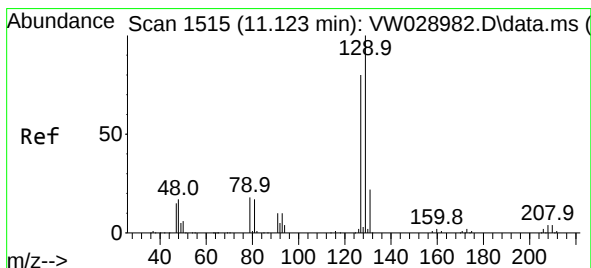
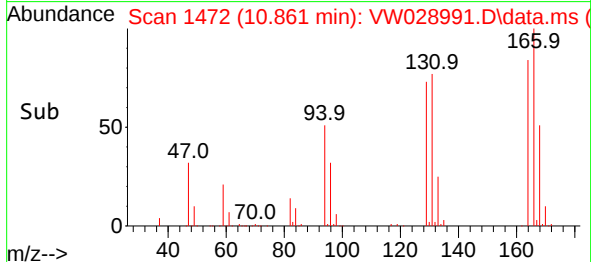
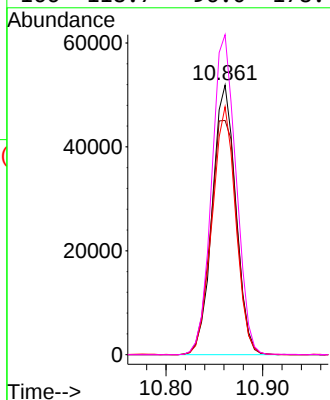
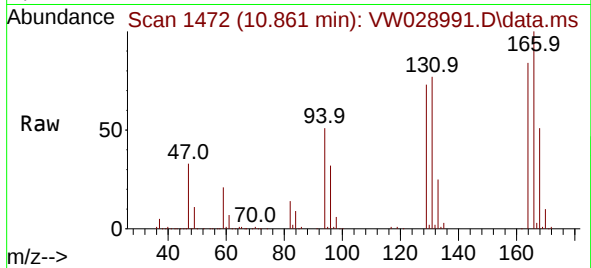




#46
Tetrachloroethene
Concen: 22.134 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

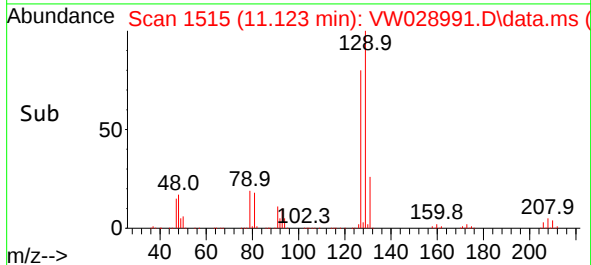
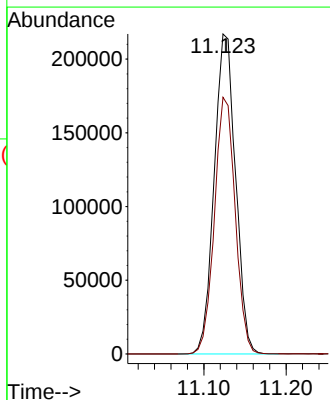
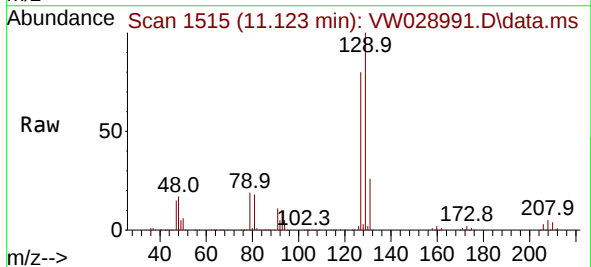
Instrument :
MSVOA_W
ClientSampleId :
A4DH0

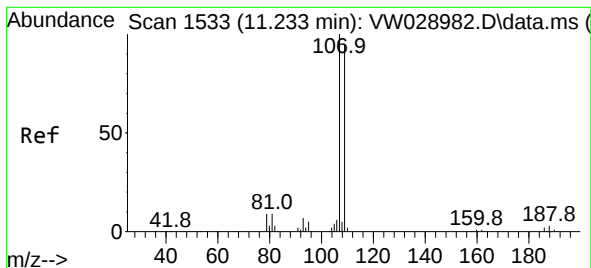
Tgt Ion:164 Resp: 87642
Ion Ratio Lower Upper
164 100
129 86.9 69.4 128.8
131 92.0 71.0 131.9
166 118.7 96.0 178.4



#49
Dibromochloromethane
Concen: 106.159 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion:129 Resp: 393109
Ion Ratio Lower Upper
129 100
127 80.2 56.5 104.9

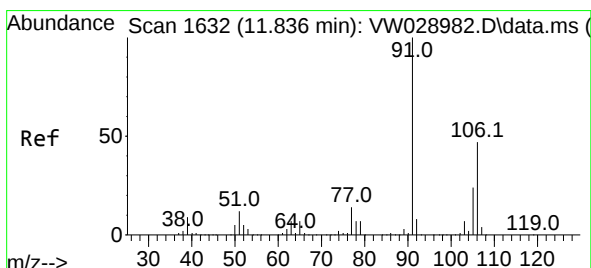
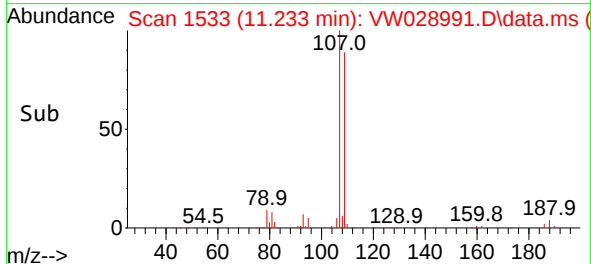
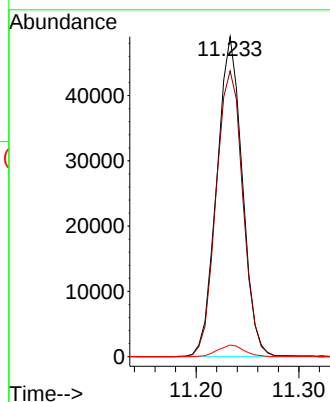
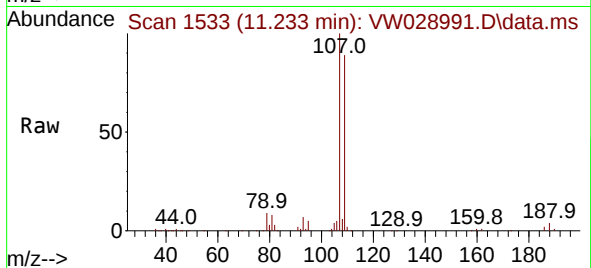




#50
1,2-Dibromoethane
Concen: 26.430 ug/L
RT: 11.233 min Scan# 1533
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

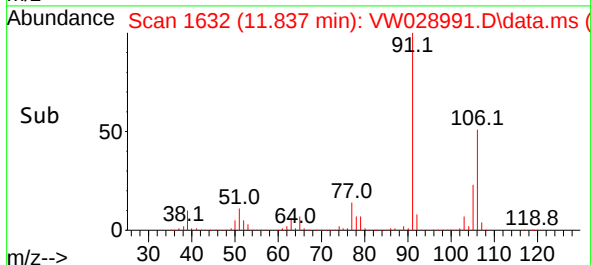
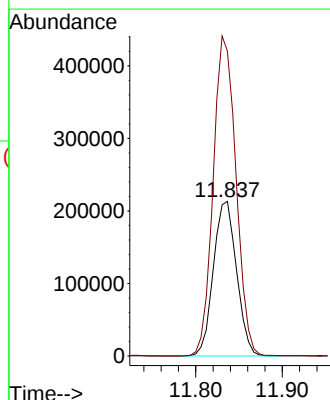
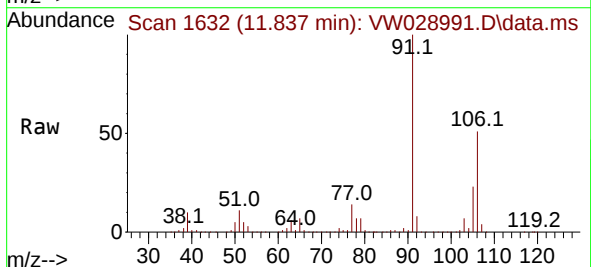
Instrument :
MSVOA_W
ClientSampleId :
A4DH0

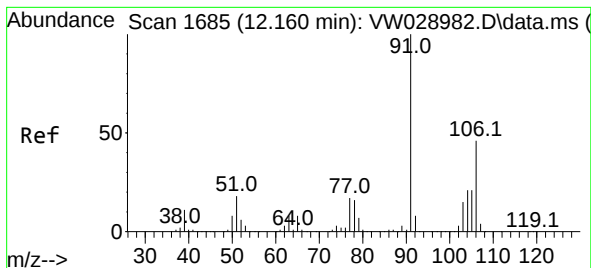
Tgt Ion:107 Resp: 84587
Ion Ratio Lower Upper
107 100
109 89.3 67.9 126.1
188 3.6 3.0 4.4



#53
m,p-Xylene
Concen: 46.452 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion:106 Resp: 395881
Ion Ratio Lower Upper
106 100
91 197.3 152.0 282.2





#54

o-Xylene

Concen: 22.091 ug/L

RT: 12.160 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW028991.D

Acq: 04 Jun 2024 13:24

Instrument :

MSVOA_W

ClientSampleId :

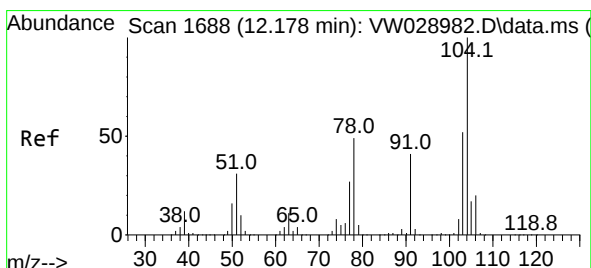
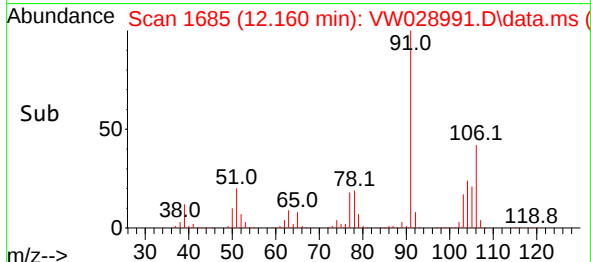
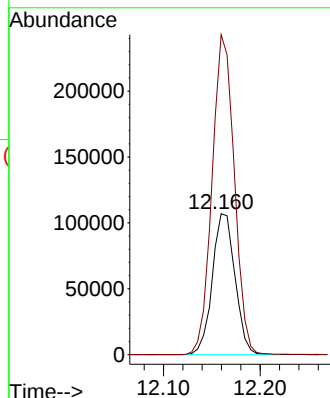
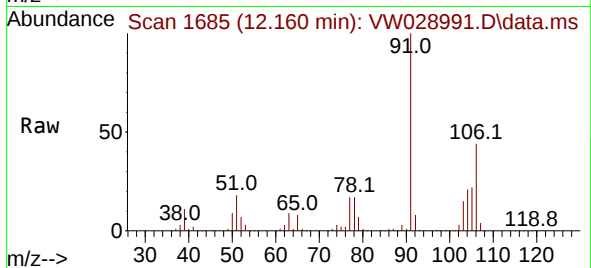
A4DH0

Tgt Ion:106 Resp: 174325

Ion Ratio Lower Upper

106 100

91 227.1 152.5 283.3



#55

Styrene

Concen: 21.914 ug/L

RT: 12.178 min Scan# 1688

Delta R.T. 0.000 min

Lab File: VW028991.D

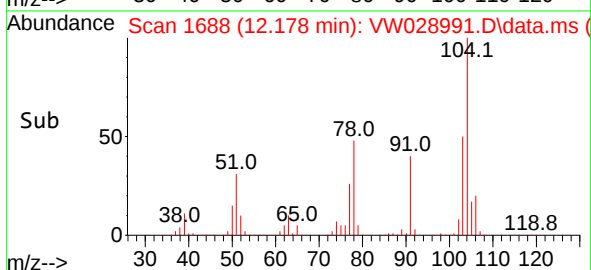
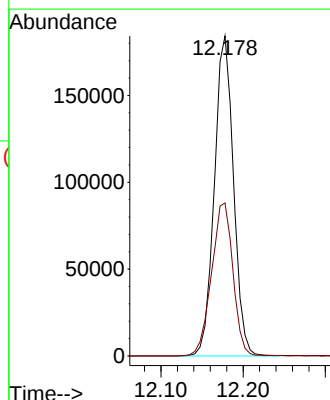
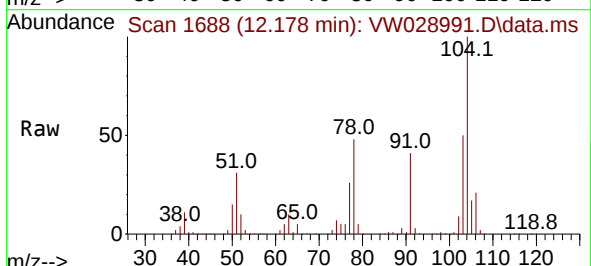
Acq: 04 Jun 2024 13:24

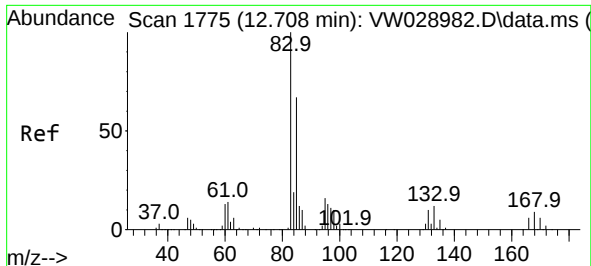
Tgt Ion:104 Resp: 298134

Ion Ratio Lower Upper

104 100

78 47.8 33.3 61.9





#57

1,1,2-Tetrachloroethane

Concen: 89.230 ug/L

RT: 12.708 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW028991.D

Acq: 04 Jun 2024 13:24

Instrument :

MSVOA_W

ClientSampleId :

A4DH0

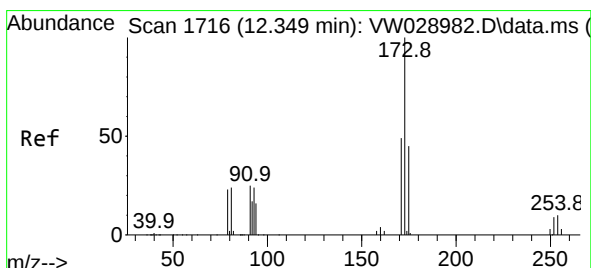
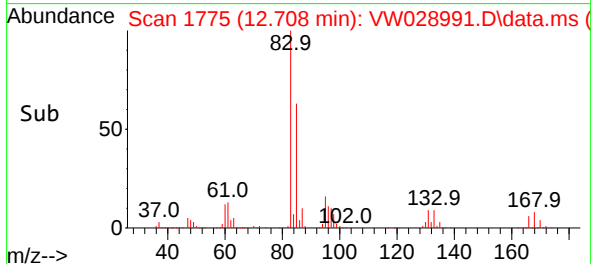
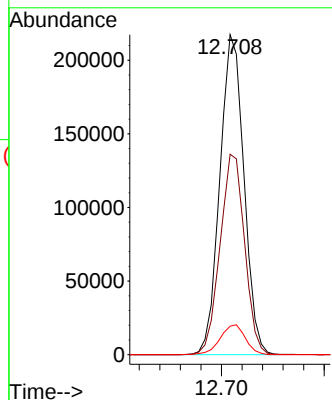
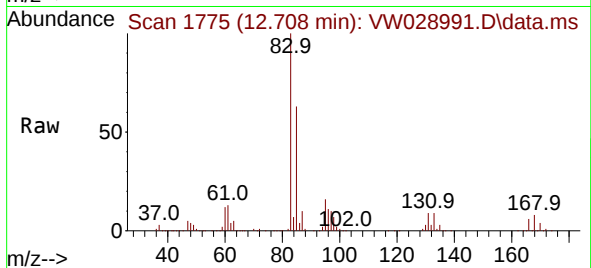
Tgt Ion: 83 Resp: 353151

Ion Ratio Lower Upper

83 100

85 62.7 43.8 81.3

131 8.9 7.3 10.9



#59

Bromoform

Concen: 68.541 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VW028991.D

Acq: 04 Jun 2024 13:24

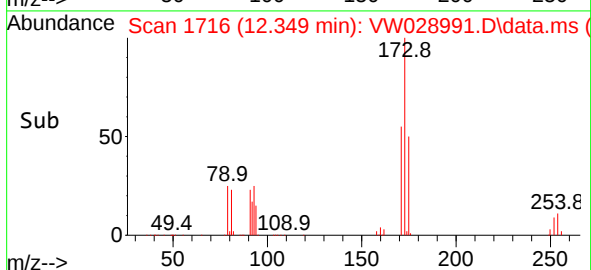
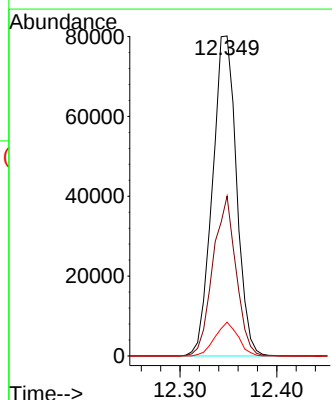
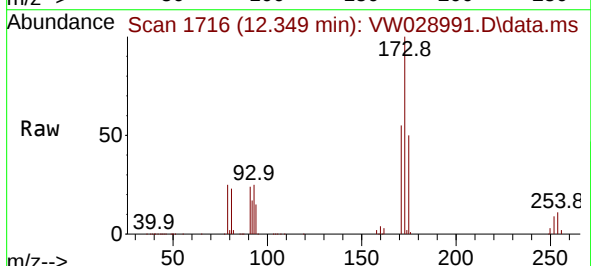
Tgt Ion:173 Resp: 138782

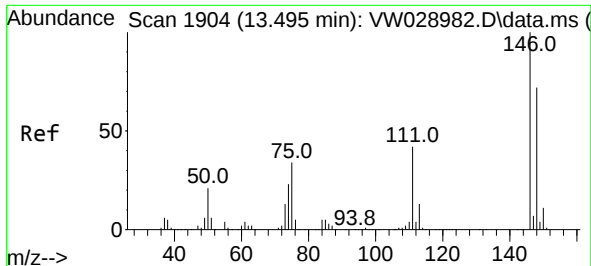
Ion Ratio Lower Upper

173 100

175 47.9 38.1 57.1

254 10.1 8.2 12.2

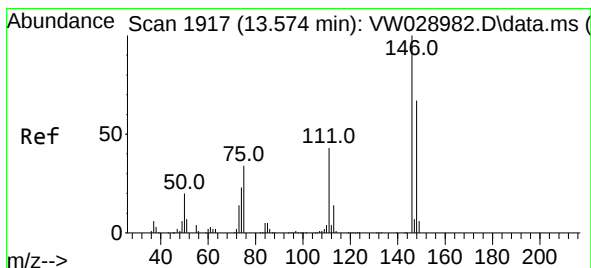
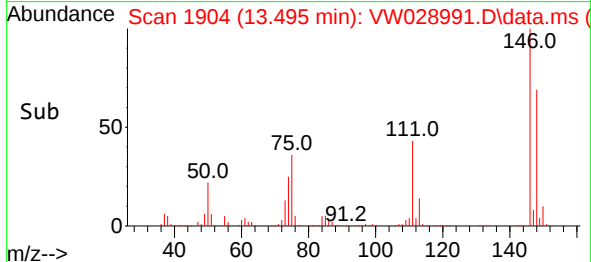
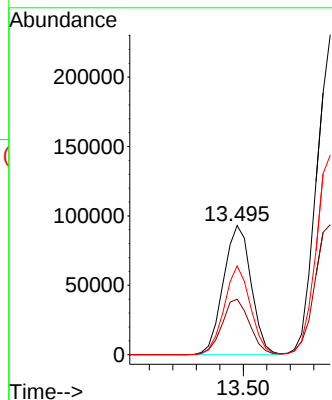
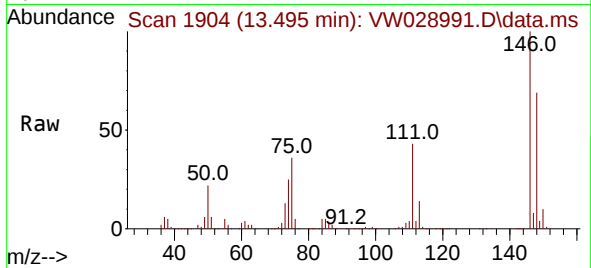




#64
1,3-Dichlorobenzene
Concen: 15.955 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

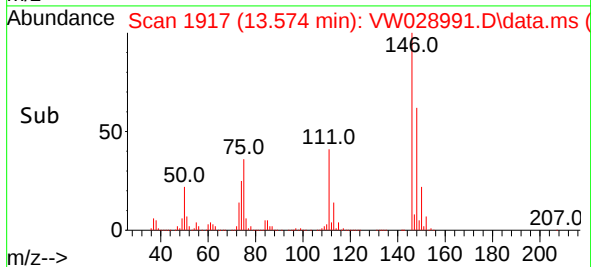
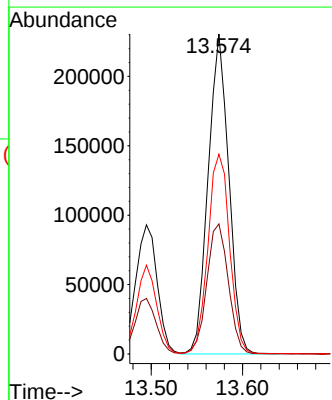
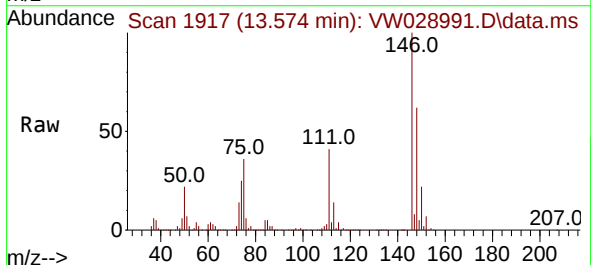
Instrument :
MSVOA_W
ClientSampleId :
A4DH0

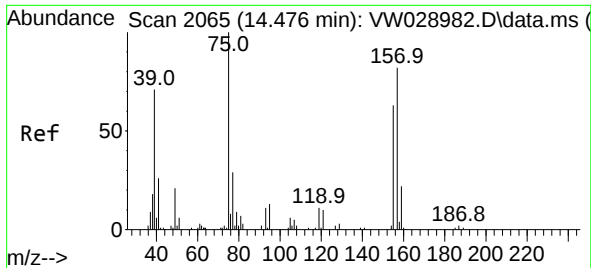
Tgt Ion:146 Resp: 152796
Ion Ratio Lower Upper
146 100
111 43.1 29.4 54.6
148 68.8 42.5 78.9



#65
1,4-Dichlorobenzene
Concen: 36.150 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW028991.D
Acq: 04 Jun 2024 13:24

Tgt Ion:146 Resp: 361567
Ion Ratio Lower Upper
146 100
111 40.6 27.5 51.1
148 62.4 39.5 73.3





#68
 1,2-Dibromo-3-chloropropane
 Concen: 30.287 ug/L
 RT: 14.476 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: VW028991.D
 Acq: 04 Jun 2024 13:24

Instrument :
 MSVOA_W
 ClientSampleId :
 A4DH0

Tgt Ion: 75 Resp: 19174
 Ion Ratio Lower Upper
 75 100
 155 72.0 52.3 78.5
 157 85.8 71.0 106.4

