

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031025\
 Data File : VX045204.D
 Acq On : 10 Mar 2025 18:21
 Operator : JC/MD
 Sample : Q1531-16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 11 04:00:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	71727	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	142598	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	131835	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	54697	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61843	54.204	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	108.400%
35) Dibromofluoromethane	5.379	113	49316	51.720	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.440%
50) Toluene-d8	8.647	98	178157	51.538	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.080%
62) 4-Bromofluorobenzene	11.079	95	60912	53.176	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.360%
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.325	101	2443	2.930	ug/l	88
11) Tert butyl alcohol	2.946	59	89	0.412	ug/l #	73
12) 1,1-Dichloroethene	2.312	96	701	0.795	ug/l	89
16) Acetone	2.373	43	813	1.536	ug/l #	68
19) Methyl tert-butyl Ether	3.117	73	2614	0.884	ug/l	96
24) 1,1-Dichloroethane	3.611	63	1058	0.592	ug/l #	83
27) cis-1,2-Dichloroethene	4.483	96	2902	2.700	ug/l	94
30) Chloroform	5.080	83	683	0.384	ug/l #	62
31) Cyclohexane	5.544	56	1956	1.260	ug/l #	9
36) 1,1-Dichloropropene	5.550	75	6430	4.917	ug/l #	51
38) Carbon Tetrachloride	5.544	117	7783	5.863	ug/l #	16
39) Methylcyclohexane	7.116	83	2528	1.613	ug/l #	1
44) Trichloroethene	7.123	130	190197	196.163	ug/l	99
49) 1,4-Dioxane	7.671	88	518	19.645	ug/l #	87
51) 4-Methyl-2-Pentanone	8.647	43	973	0.582	ug/l #	1
60) Dibromochloromethane	9.275	129	9872	9.466	ug/l #	11
64) Tetrachloroethene	9.275	164	9951	11.785	ug/l	93
76) 1,2,3-Trichloropropane	11.079	75	33422	26.253	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	33422	89.842	ug/l #	6

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

Quant Time: Mar 11 04:00:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

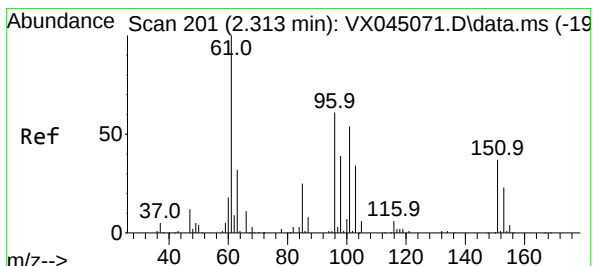
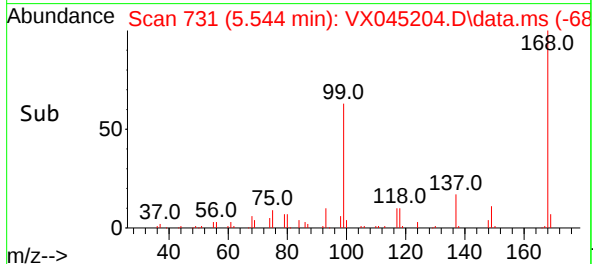
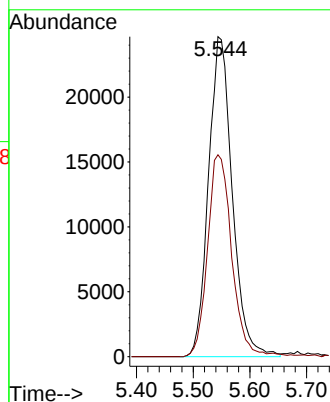
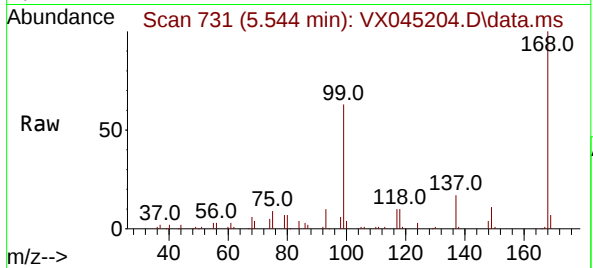




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

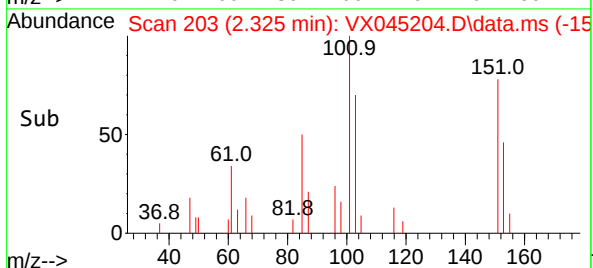
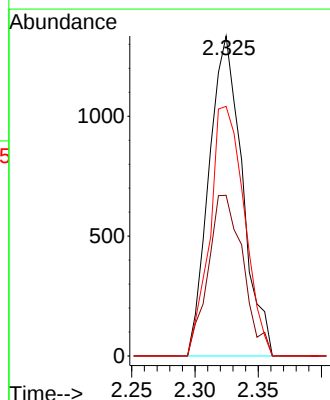
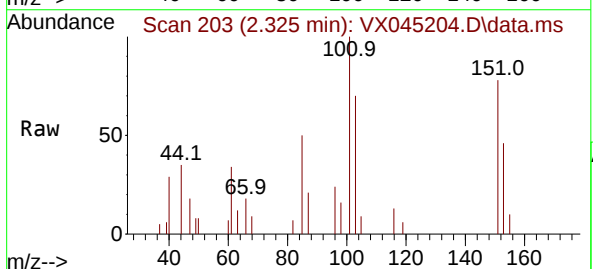
Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:168 Resp: 71727
Ion Ratio Lower Upper
168 100
99 63.1 48.2 72.4



#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.930 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.012 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

Tgt Ion:101 Resp: 2443
Ion Ratio Lower Upper
101 100
85 52.6 36.2 54.4
151 80.7 56.4 84.6





#11

Tert butyl alcohol

Concen: 0.412 ug/l

RT: 2.946 min Scan# 305

Delta R.T. -0.037 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

Instrument :

MSVOA_X

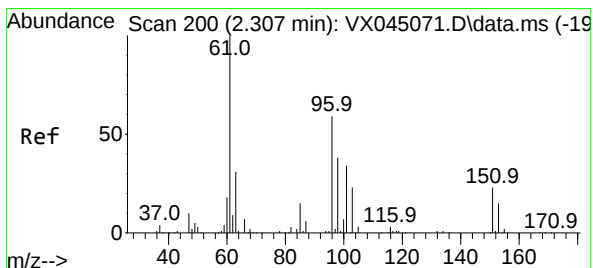
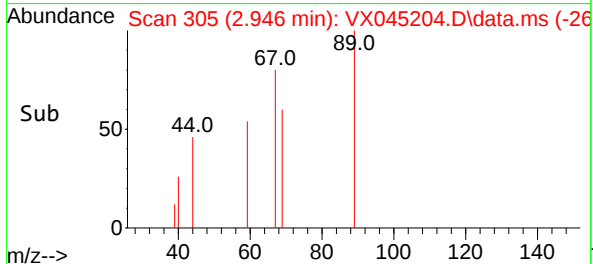
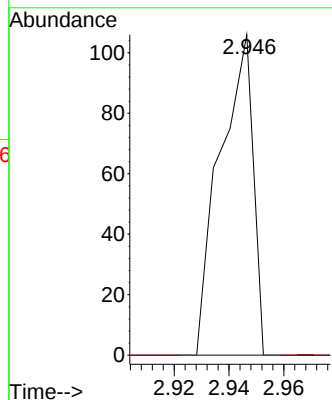
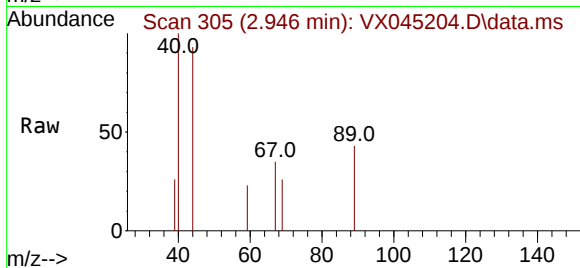
ClientSampleId :

Tgt Ion: 59 Resp: 89

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#12

1,1-Dichloroethene

Concen: 0.795 ug/l

RT: 2.312 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

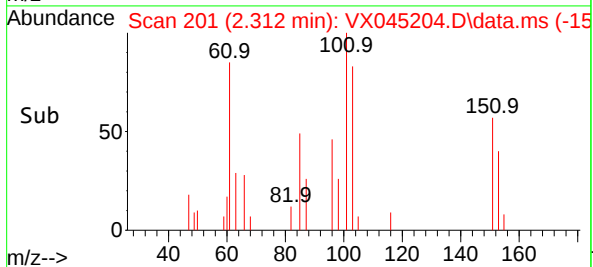
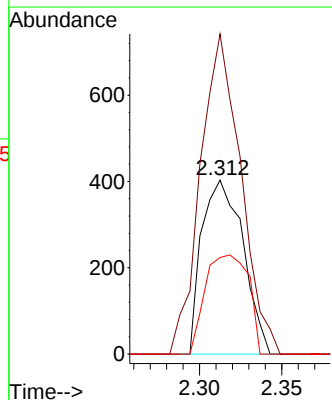
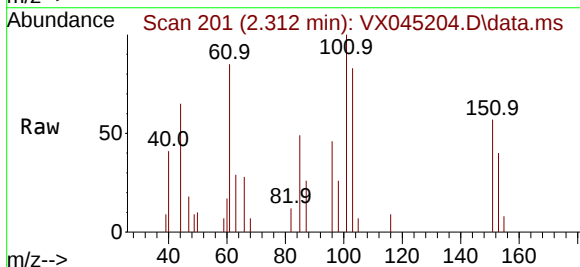
Tgt Ion: 96 Resp: 701

Ion Ratio Lower Upper

96 100

61 184.1 134.6 202.0

98 55.6 51.0 76.6

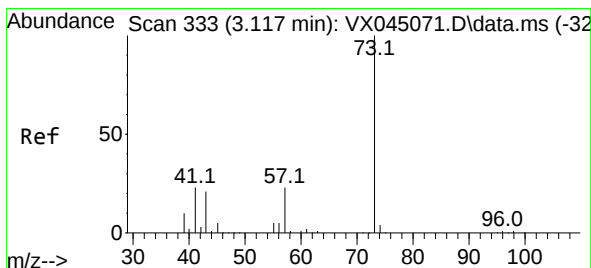
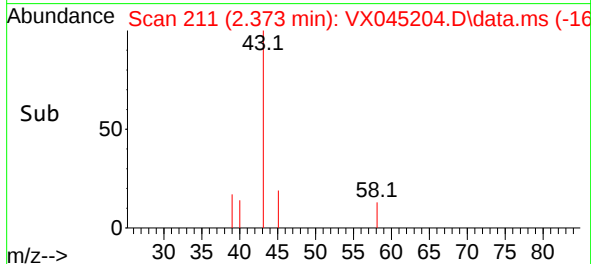
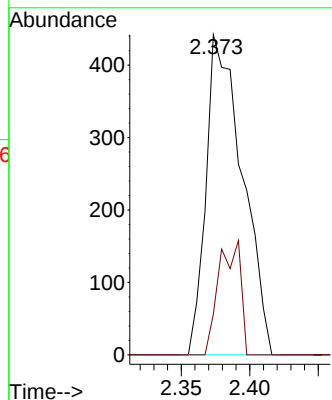
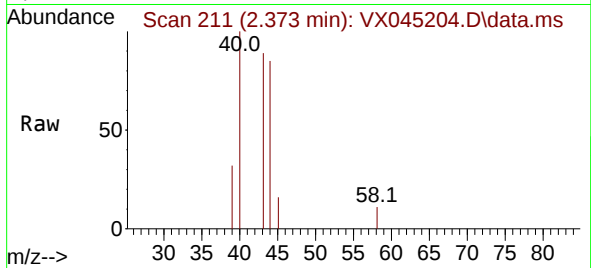




#16
Acetone
Concen: 1.536 ug/l
RT: 2.373 min Scan# 213
Delta R.T. -0.012 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

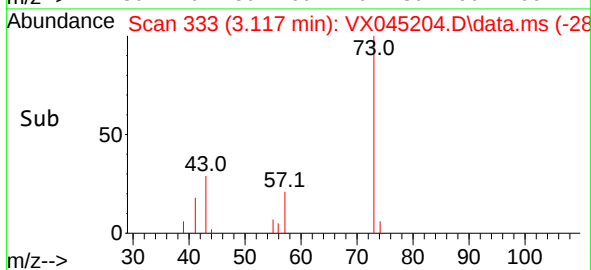
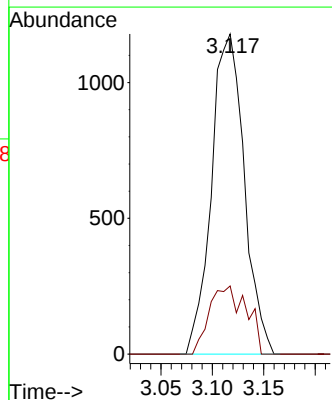
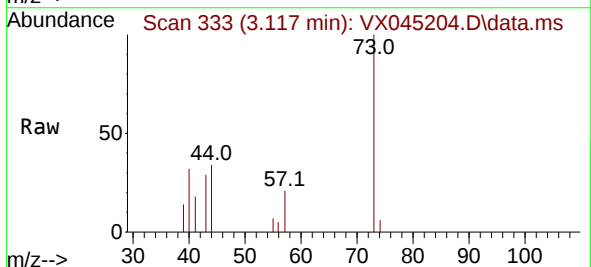
Instrument :
MSVOA_X
ClientSampleId :

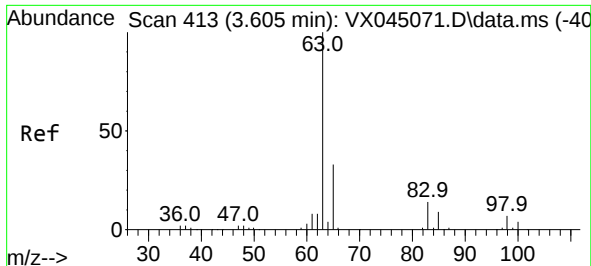
Tgt Ion: 43 Resp: 813
Ion Ratio Lower Upper
43 100
58 12.7 24.2 36.4#



#19
Methyl tert-butyl Ether
Concen: 0.884 ug/l
RT: 3.117 min Scan# 333
Delta R.T. -0.000 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

Tgt Ion: 73 Resp: 2614
Ion Ratio Lower Upper
73 100
57 21.3 18.5 27.7

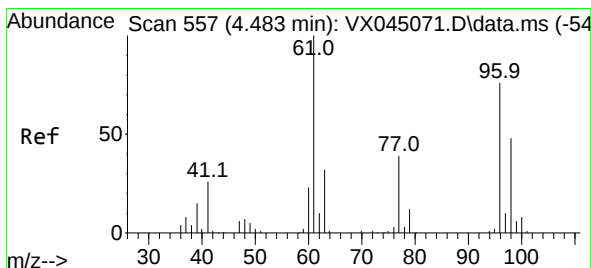
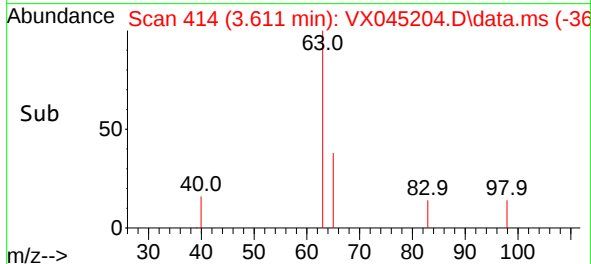
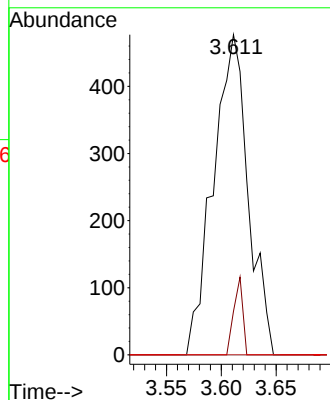
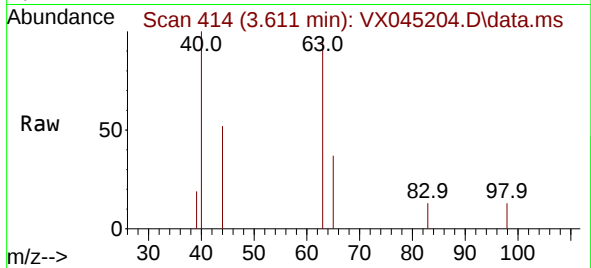




#24
1,1-Dichloroethane
Concen: 0.592 ug/l
RT: 3.611 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

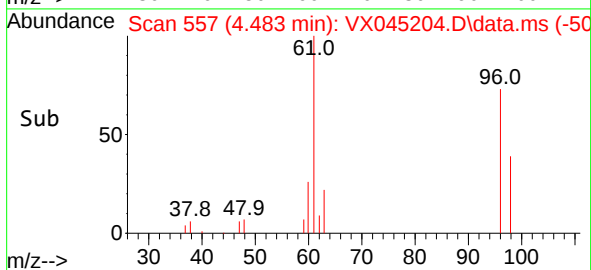
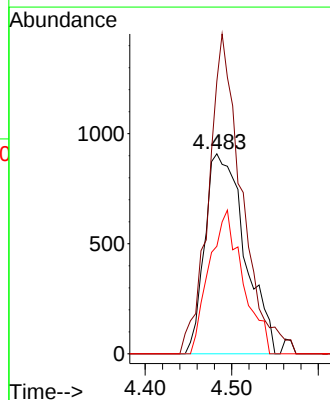
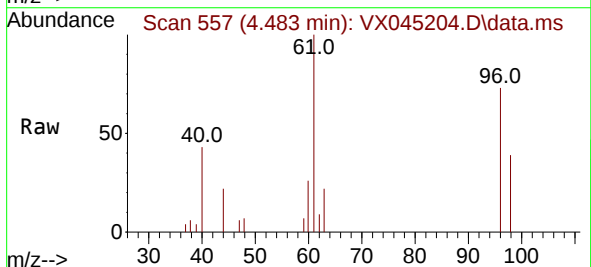
Instrument :
MSVOA_X
ClientSampleId :

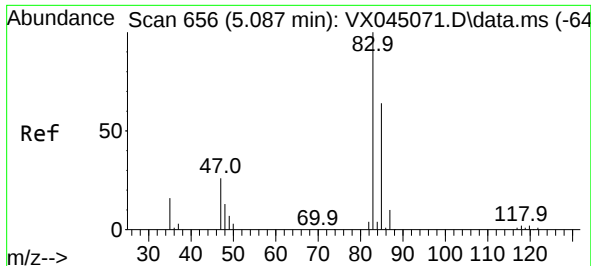
Tgt Ion: 63 Resp: 1058
Ion Ratio Lower Upper
63 100
98 13.6 3.4 10.2#
100 0.0 2.1 6.5#



#27
cis-1,2-Dichloroethene
Concen: 2.700 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

Tgt Ion: 96 Resp: 2902
Ion Ratio Lower Upper
96 100
61 133.5 0.0 283.2
98 61.1 0.0 128.0





#30

Chloroform

Concen: 0.384 ug/l

RT: 5.080 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

Instrument :

MSVOA_X

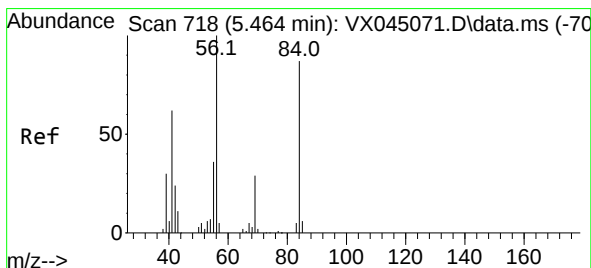
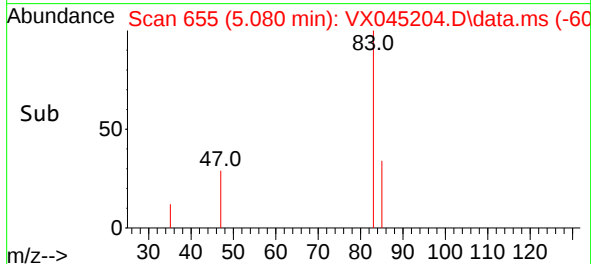
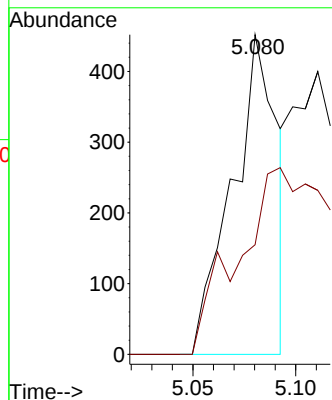
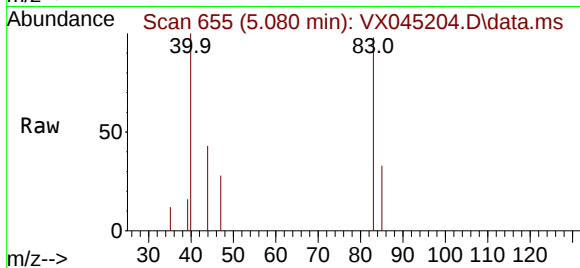
ClientSampleId :

Tgt Ion: 83 Resp: 683

Ion Ratio Lower Upper

83 100

85 34.3 51.4 77.2#



#31

Cyclohexane

Concen: 1.260 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

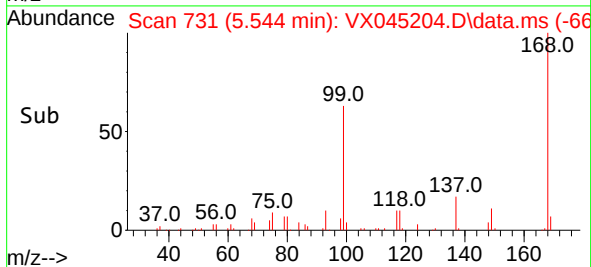
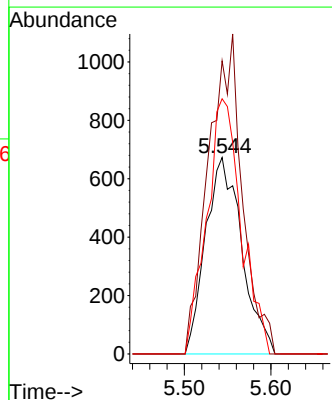
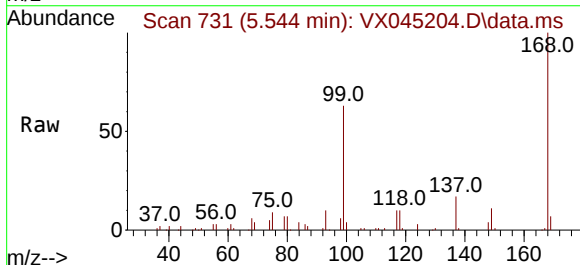
Tgt Ion: 56 Resp: 1956

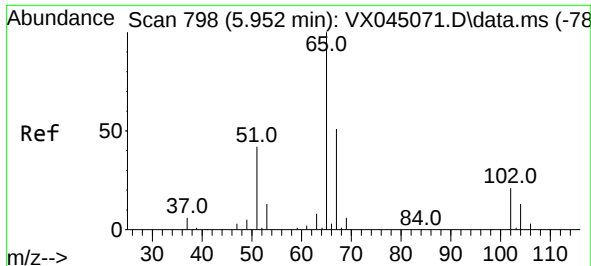
Ion Ratio Lower Upper

56 100

69 149.2 23.4 35.2#

84 129.9 69.4 104.2#





#33

1,2-Dichloroethane-d4

Concen: 54.204 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

Instrument :

MSVOA_X

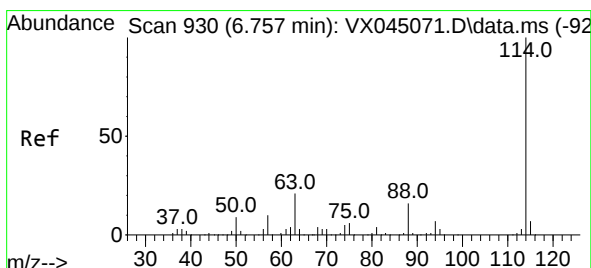
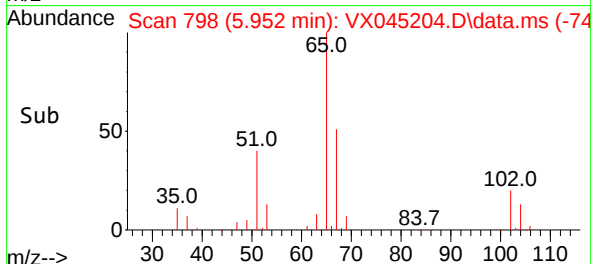
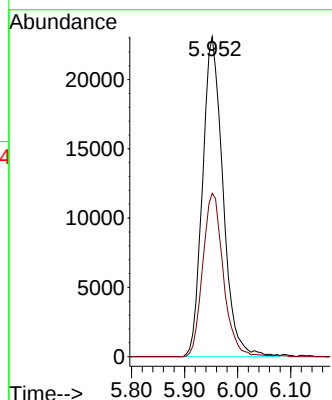
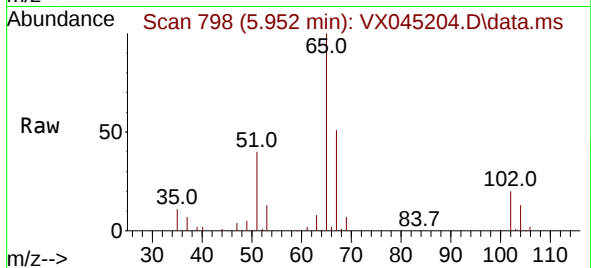
ClientSampleId :

Tgt Ion: 65 Resp: 61843

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

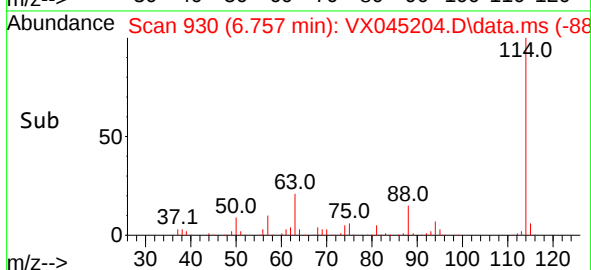
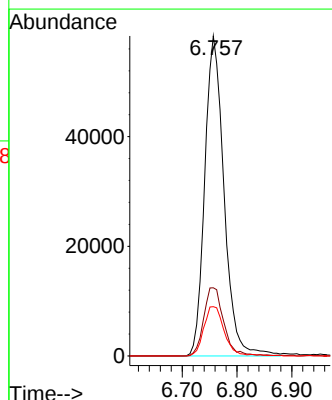
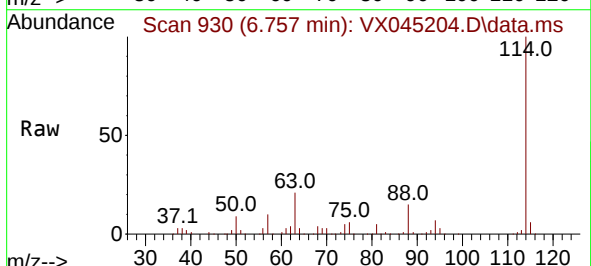
Tgt Ion: 114 Resp: 142598

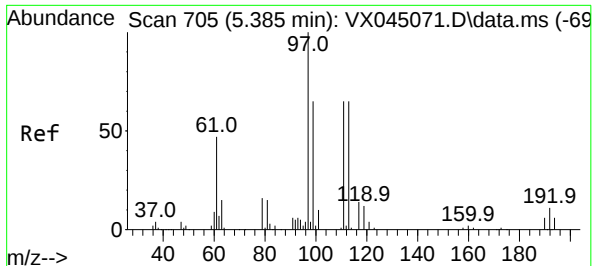
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.8

88 15.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 51.720 ug/l

RT: 5.379 min Scan# 705

Delta R.T. -0.006 min

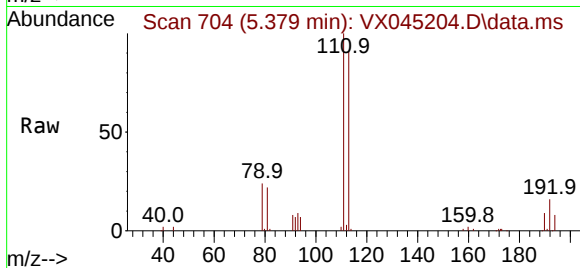
Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

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MSVOA_X

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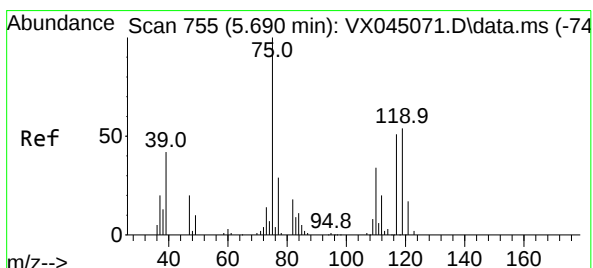
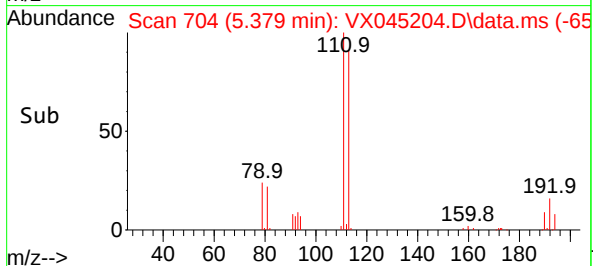
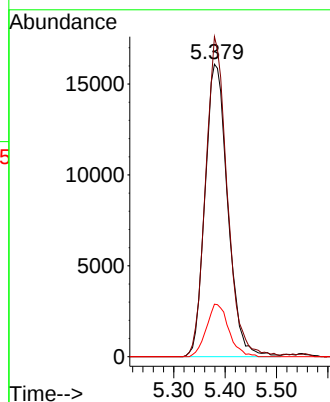
Tgt Ion:113 Resp: 49316

Ion Ratio Lower Upper

113 100

111 104.6 81.8 122.6

192 17.7 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.917 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.140 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

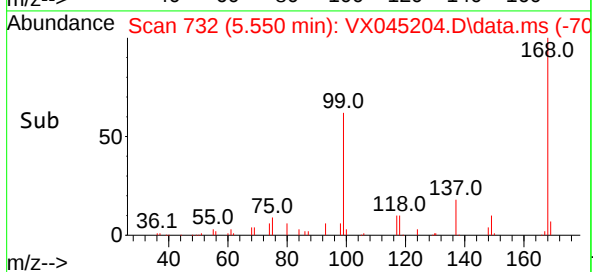
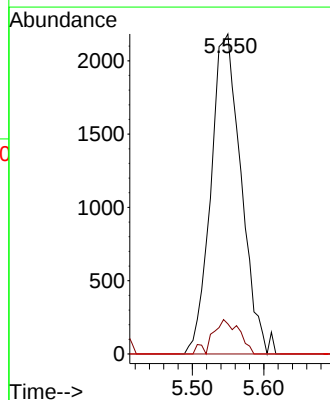
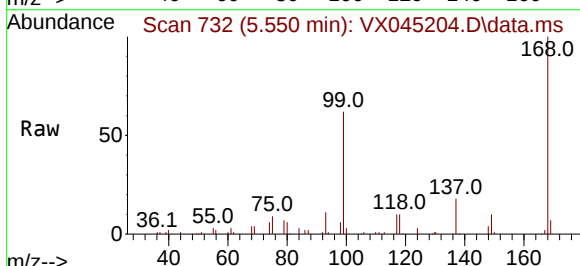
Tgt Ion: 75 Resp: 6430

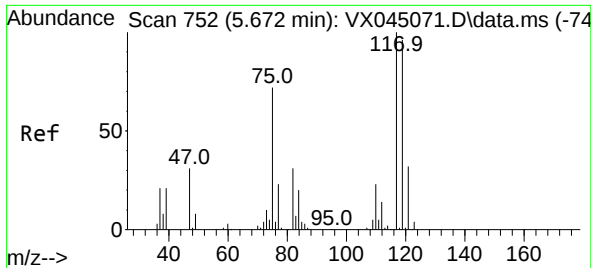
Ion Ratio Lower Upper

75 100

110 9.5 16.9 50.6#

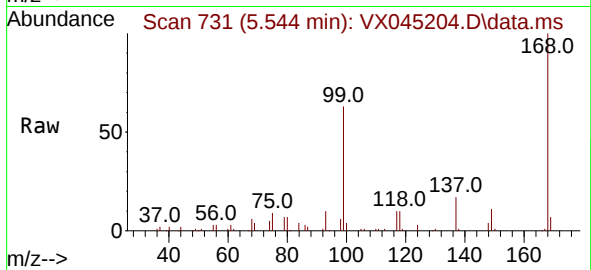
77 0.0 24.5 36.7#



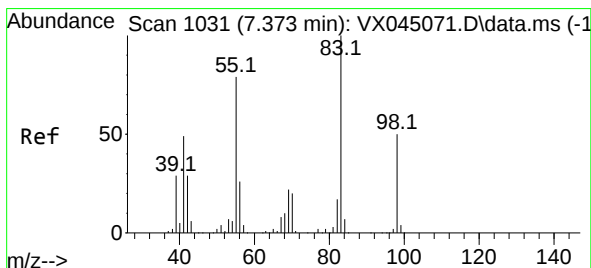
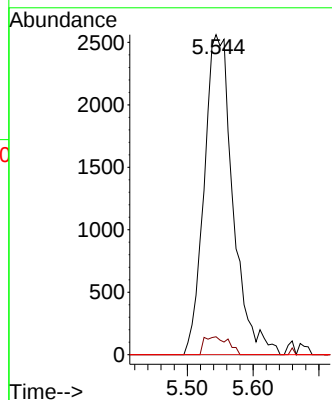
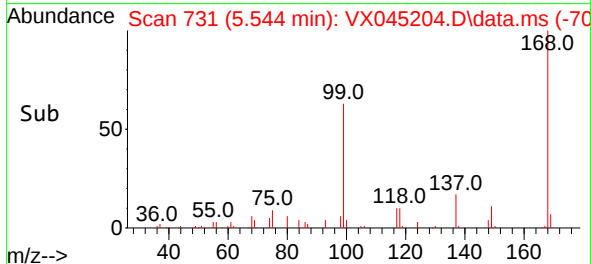


#38
Carbon Tetrachloride
Concen: 5.863 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

Instrument :
MSVOA_X
ClientSampleId :

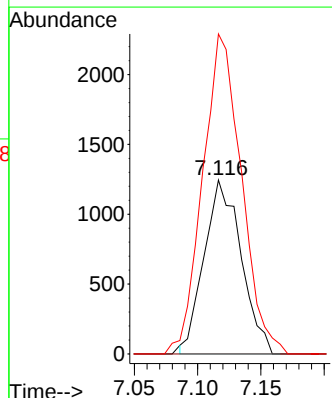
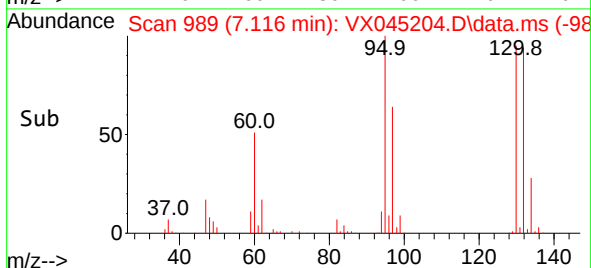
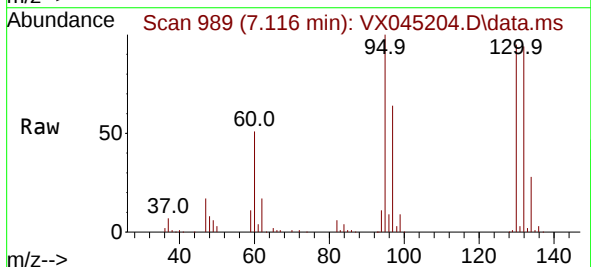


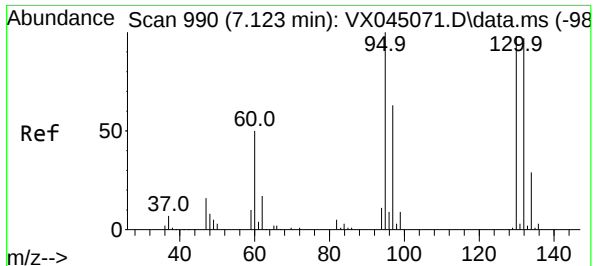
Tgt Ion:117 Resp: 7783
Ion Ratio Lower Upper
117 100
119 5.6 76.7 115.1#
121 0.0 25.5 38.3#



#39
Methylcyclohexane
Concen: 1.613 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.256 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

Tgt Ion: 83 Resp: 2528
Ion Ratio Lower Upper
83 100
55 0.0 63.0 94.4#
98 187.7 39.7 59.5#

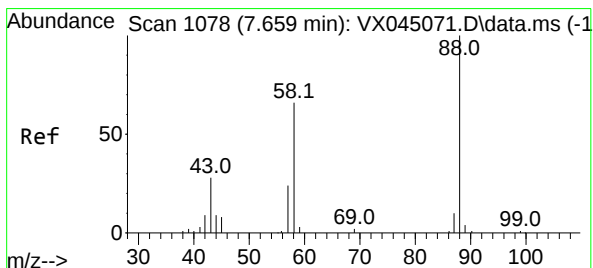
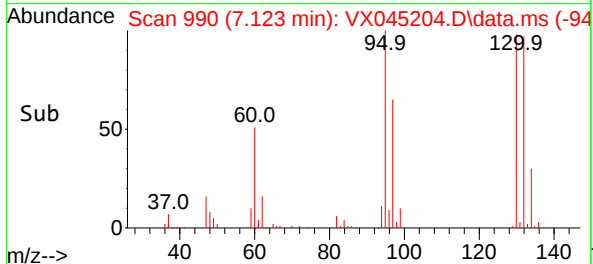
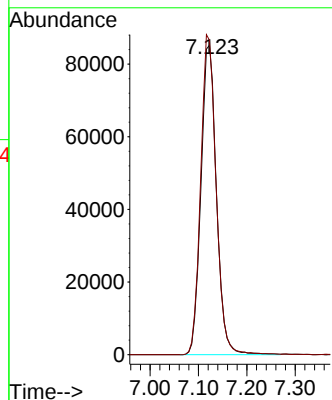
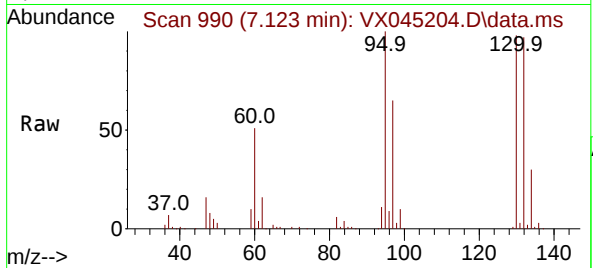




#44
Trichloroethene
Concen: 196.163 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

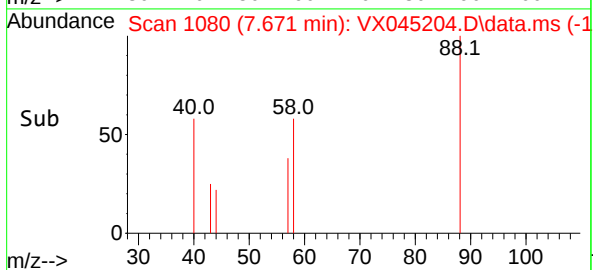
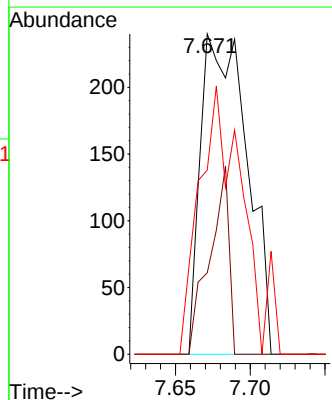
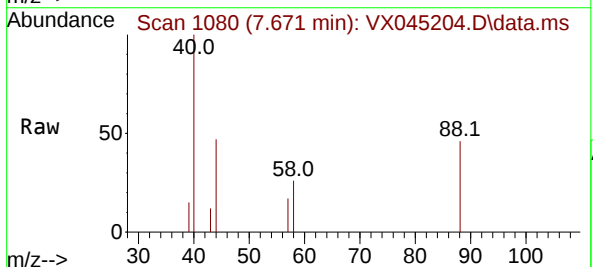
Instrument :
MSVOA_X
ClientSampleId :

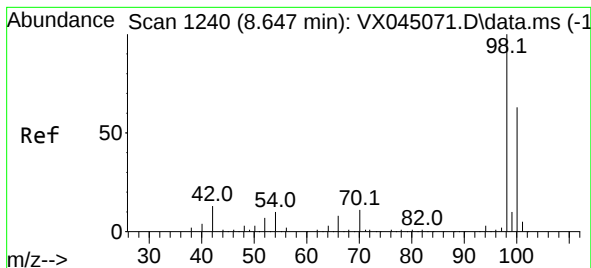
Tgt Ion:130 Resp: 190197
Ion Ratio Lower Upper
130 100
95 101.6 0.0 205.0



#49
1,4-Dioxane
Concen: 19.645 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. 0.012 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

Tgt Ion: 88 Resp: 518
Ion Ratio Lower Upper
88 100
43 24.7 28.7 43.1#
58 78.0 55.8 83.8





#50

Toluene-d8

Concen: 51.538 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

Instrument :

MSVOA_X

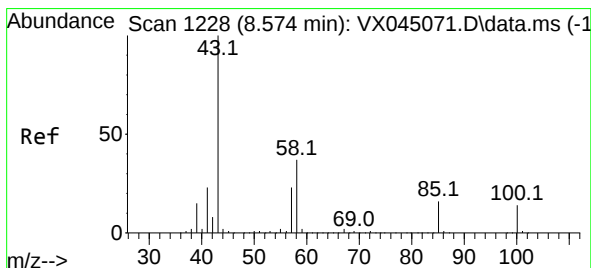
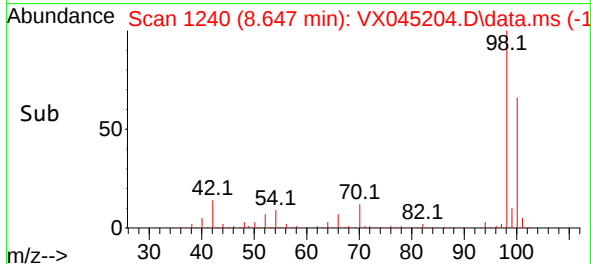
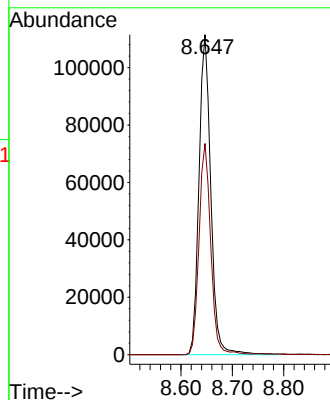
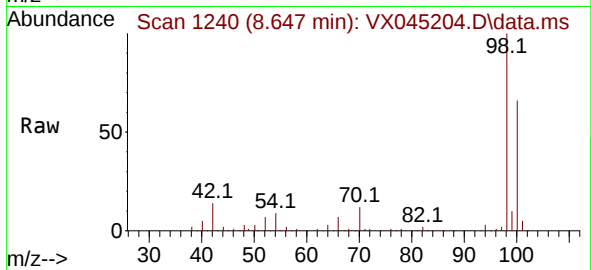
ClientSampleId :

Tgt Ion: 98 Resp: 178157

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.582 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX045204.D

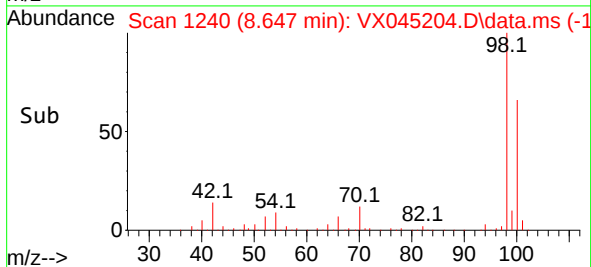
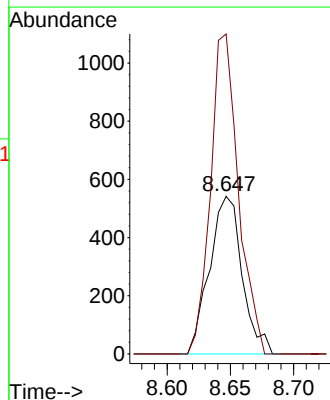
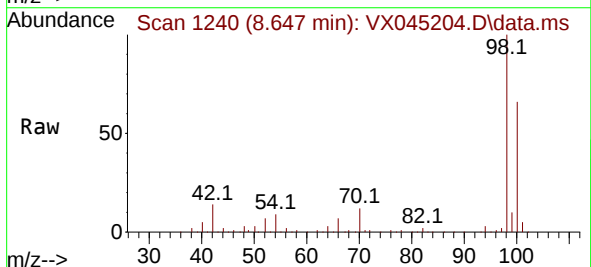
Acq: 10 Mar 2025 18:21

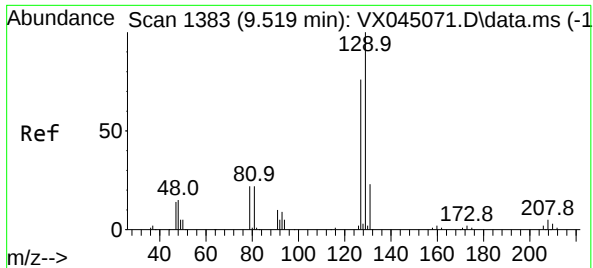
Tgt Ion: 43 Resp: 973

Ion Ratio Lower Upper

43 100

58 173.5 29.2 43.8#

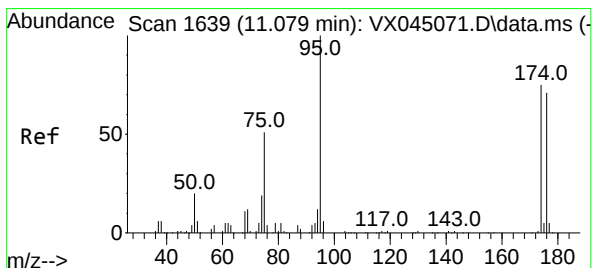
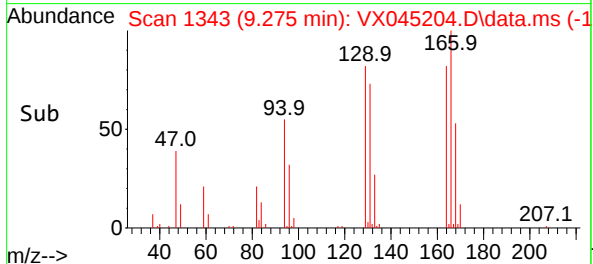
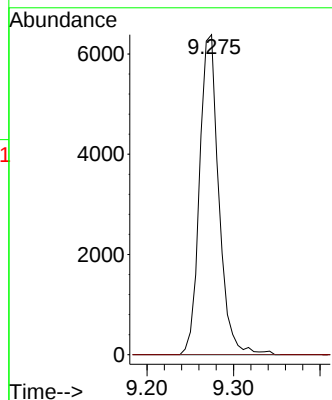
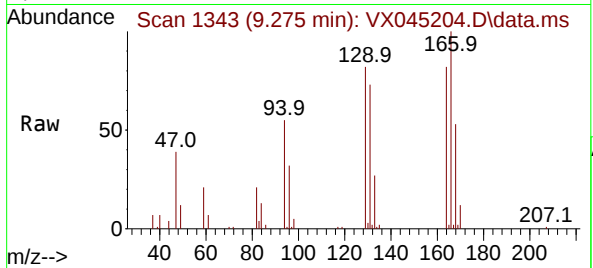




#60
Dibromochloromethane
Concen: 9.466 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

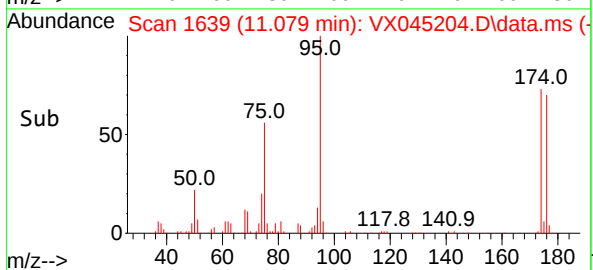
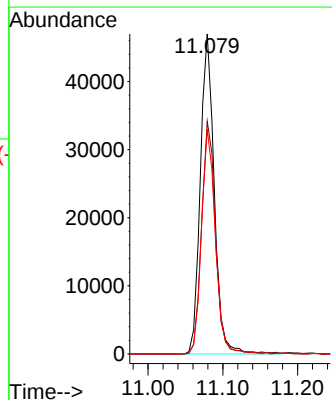
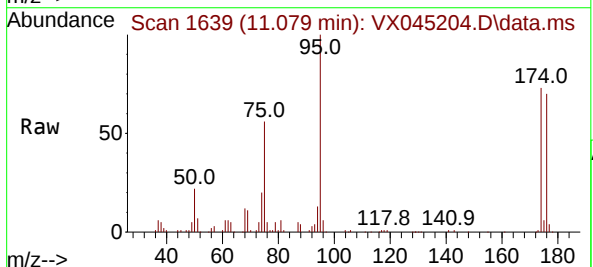
Instrument :
MSVOA_X
ClientSampleId :

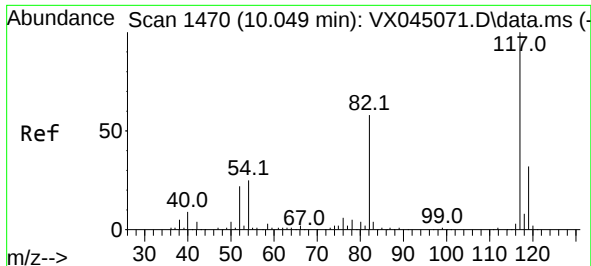
Tgt Ion:129 Resp: 9872
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 53.176 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045204.D
Acq: 10 Mar 2025 18:21

Tgt Ion: 95 Resp: 60912
Ion Ratio Lower Upper
95 100
174 72.5 0.0 148.2
176 69.8 0.0 141.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

Instrument :

MSVOA_X

ClientSampleId :

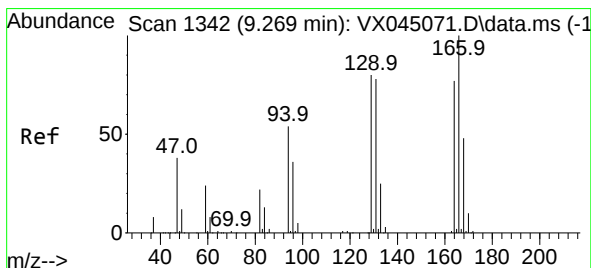
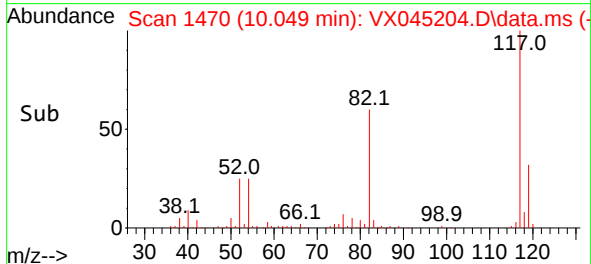
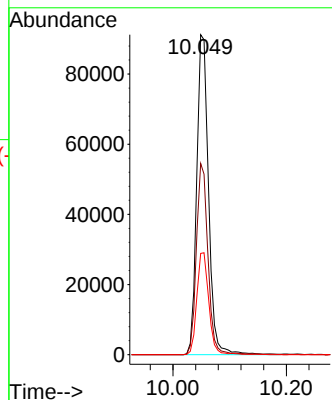
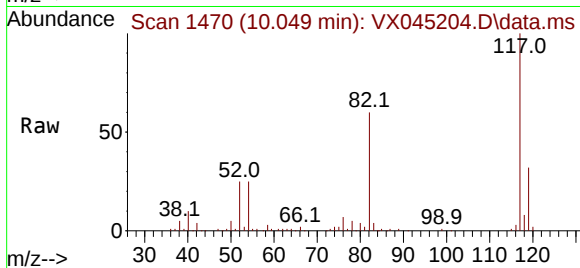
Tgt Ion:117 Resp: 131835

Ion Ratio Lower Upper

117 100

82 59.7 46.3 69.5

119 31.6 25.7 38.5



#64

Tetrachloroethene

Concen: 11.785 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VX045204.D

Acq: 10 Mar 2025 18:21

Tgt Ion:164 Resp: 9951

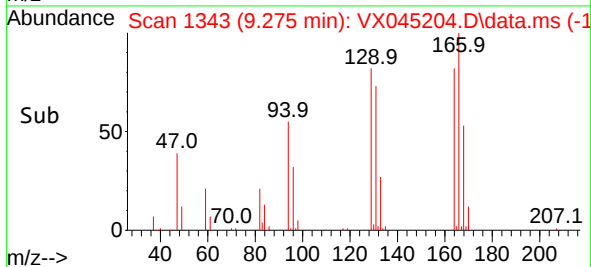
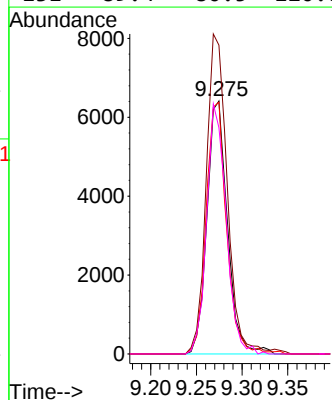
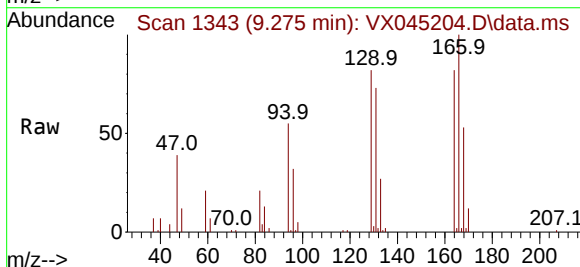
Ion Ratio Lower Upper

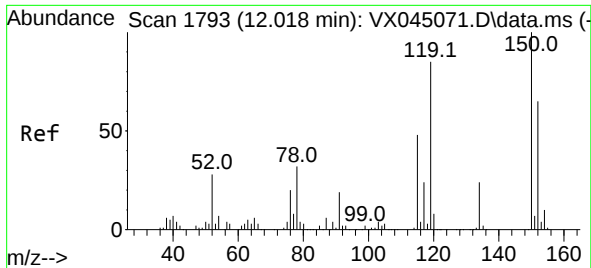
164 100

166 122.1 103.6 155.4

129 99.6 82.7 124.1

131 89.4 80.5 120.7

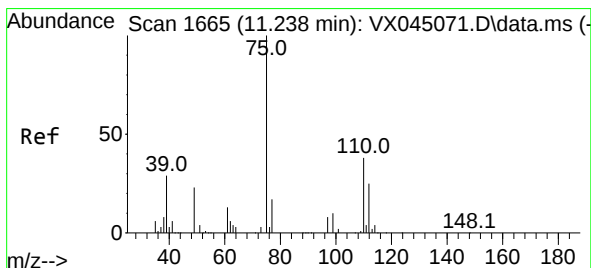
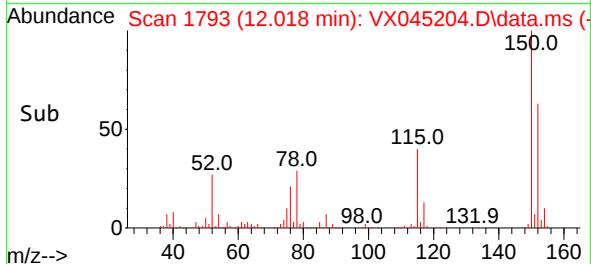
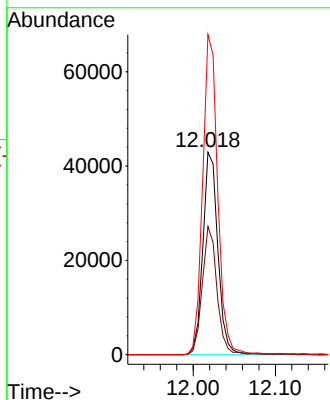
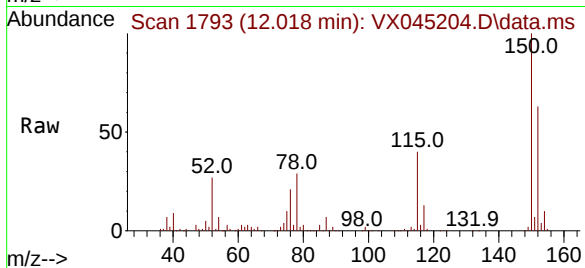




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX045204.D
 Acq: 10 Mar 2025 18:21

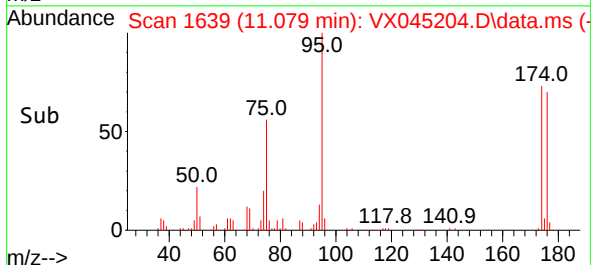
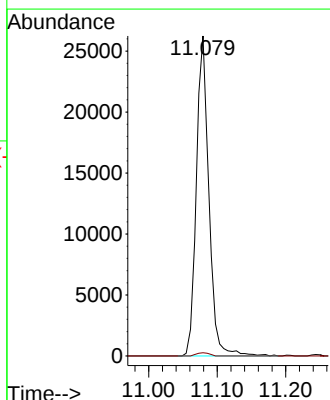
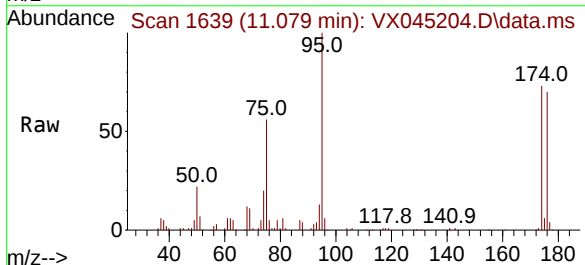
Instrument :
 MSVOA_X
 ClientSampleId :

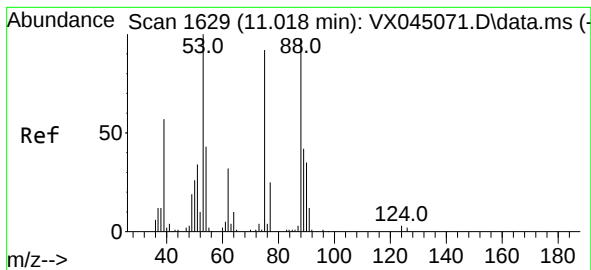
Tgt Ion:152 Resp: 54697
 Ion Ratio Lower Upper
 152 100
 115 61.8 44.2 132.6
 150 158.4 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 26.253 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX045204.D
 Acq: 10 Mar 2025 18:21

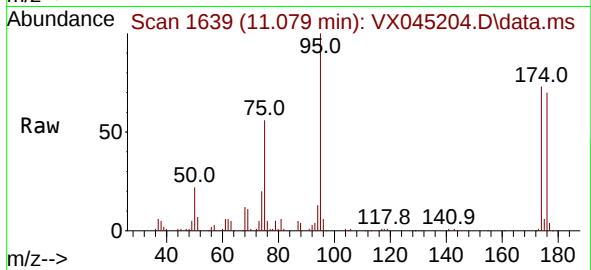
Tgt Ion: 75 Resp: 33422
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.7 62.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.842 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045204.D
 Acq: 10 Mar 2025 18:21

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion: 75 Resp: 33422
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.5 132.7#
 89 0.0 36.2 54.4#

