

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044823.D
 Acq On : 03 Feb 2025 18:27
 Operator : JC/MD
 Sample : Q1239-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

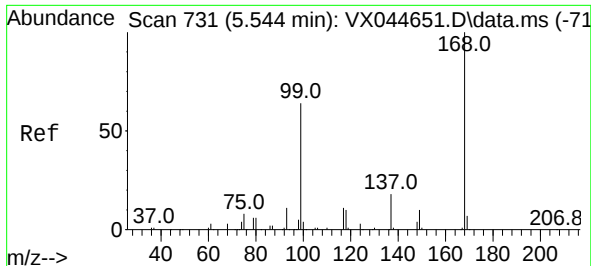
Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 04 02:13:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

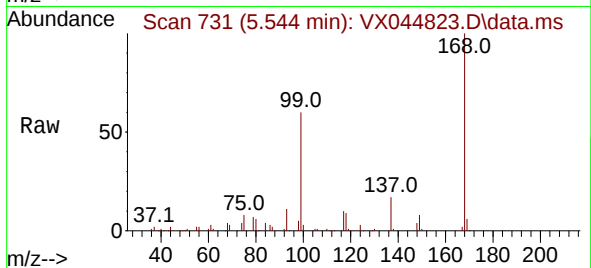
Internal Standards						
1) Pentafluorobenzene	5.544	168	103546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	211300	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	186902	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	78275	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	75391	48.236	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.480%		
35) Dibromofluoromethane	5.379	113	65595	48.866	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.740%		
50) Toluene-d8	8.647	98	252058	53.852	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	107.700%		
62) 4-Bromofluorobenzene	11.079	95	85717	49.126	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.260%		
Target Compounds						Qvalue
6) Chloroethane	1.660	64	138	0.505	ug/l #	41
11) Tert butyl alcohol	2.934	59	4559	13.084	ug/l #	89
13) Acrolein	2.233	56	266	1.622	ug/l #	32
16) Acetone	2.386	43	49644	80.282	ug/l	94
17) Carbon Disulfide	2.502	76	1005	0.304	ug/l #	86
18) Methyl Acetate	2.703	43	2613	1.370	ug/l #	87
20) Methylene Chloride	2.782	84	3423	2.377	ug/l	92
25) 2-Butanone	4.574	43	8379	9.114	ug/l	92
29) Tetrahydrofuran	5.032	42	306	0.516	ug/l #	48
30) Chloroform	5.099	83	1213	0.494	ug/l	89
31) Cyclohexane	5.538	56	2607	1.325	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	8554	4.578	ug/l #	49
37) Ethyl Acetate	4.745	43	3820	1.920	ug/l #	78
38) Carbon Tetrachloride	5.550	117	10795	5.136	ug/l #	15
43) Isopropyl Acetate	6.342	43	127173	34.740	ug/l	99
48) Methyl methacrylate	7.799	41	96303	56.675	ug/l #	43
49) 1,4-Dioxane	7.793	88	74	2.087	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	93433	46.186	ug/l #	46
52) Toluene	8.720	92	954	0.269	ug/l #	65
53) t-1,3-Dichloropropene	8.945	75	574	0.244	ug/l #	44
54) cis-1,3-Dichloropropene	8.549	75	44256	17.361	ug/l #	57
57) 1,3-Dichloropropane	9.482	76	5414	2.217	ug/l #	42
59) 2-Hexanone	9.482	43	68016	45.700	ug/l #	50
74) N-amyl acetate	10.640	43	19202	6.092	ug/l #	52
76) 1,2,3-Trichloropropane	11.079	75	44273	23.306	ug/l #	32
81) trans-1,4-Dichloro-2-b...	11.079	75	44273	53.298	ug/l #	12

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

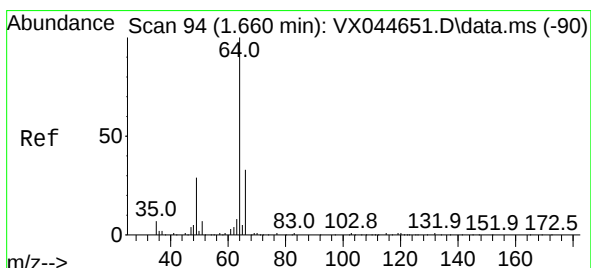
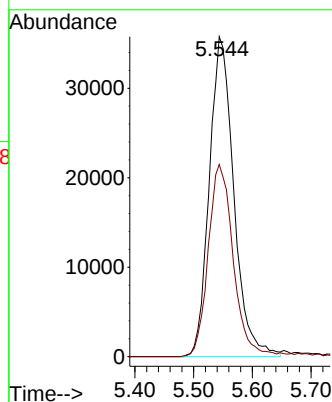
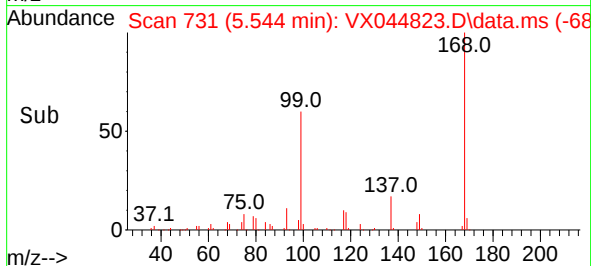


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

Instrument :
MSVOA_X
ClientSampleId :

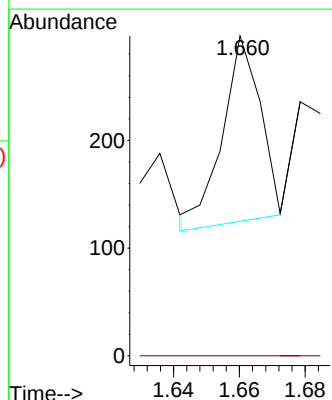
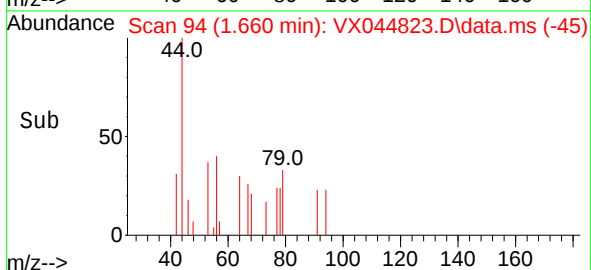
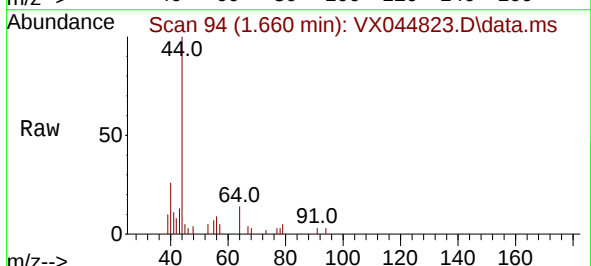


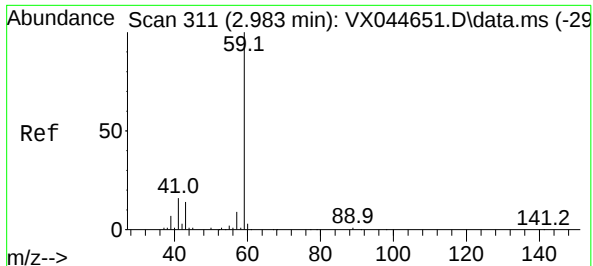
Tgt Ion:168 Resp: 103546
Ion Ratio Lower Upper
168 100
99 60.1 51.1 76.7



#6
Chloroethane
Concen: 0.505 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

Tgt Ion: 64 Resp: 138
Ion Ratio Lower Upper
64 100
66 0.0 26.6 39.8#





#11

Tert butyl alcohol

Concen: 13.084 ug/l

RT: 2.934 min Scan# 303

Delta R.T. -0.049 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

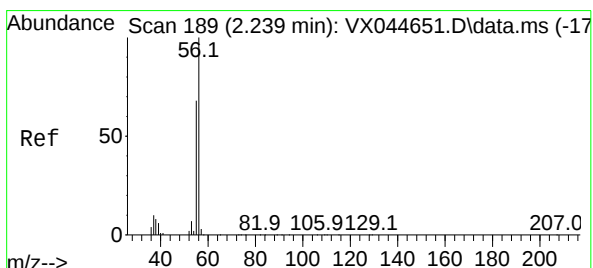
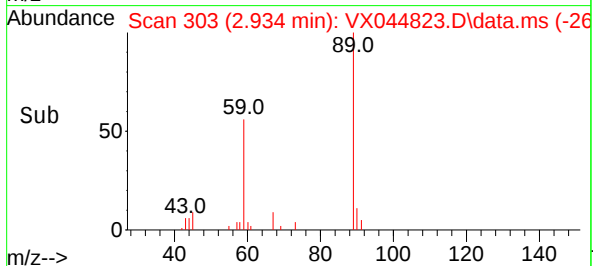
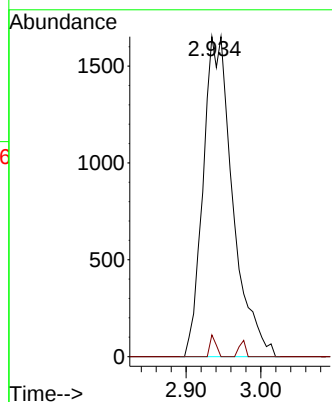
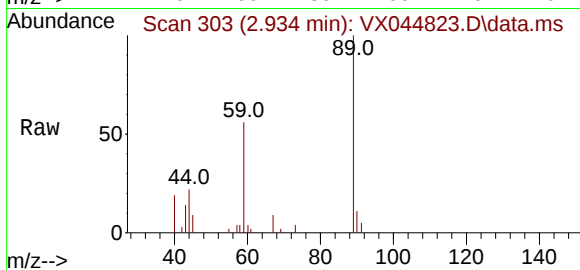
ClientSampleId :

Tgt Ion: 59 Resp: 4559

Ion Ratio Lower Upper

59 100

57 1.4 3.9 5.9#



#13

Acrolein

Concen: 1.622 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX044823.D

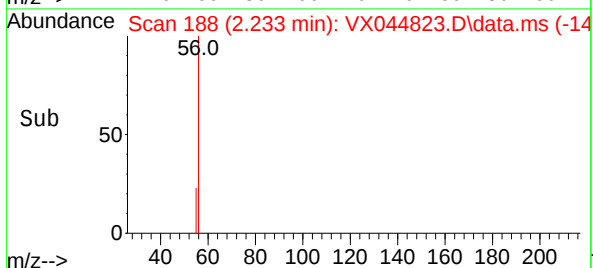
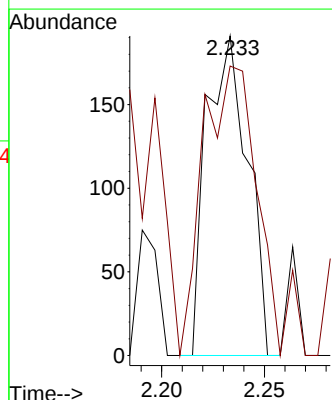
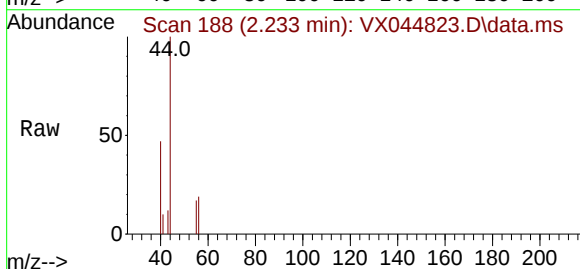
Acq: 03 Feb 2025 18:27

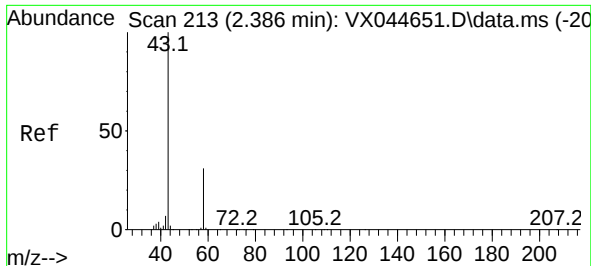
Tgt Ion: 56 Resp: 266

Ion Ratio Lower Upper

56 100

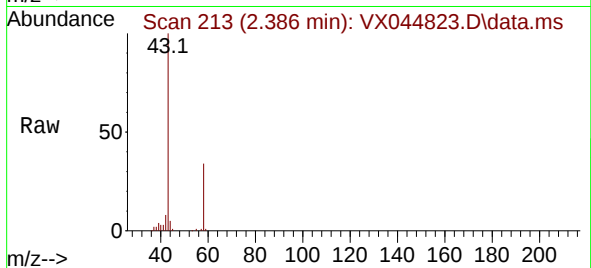
55 124.1 55.1 82.7#



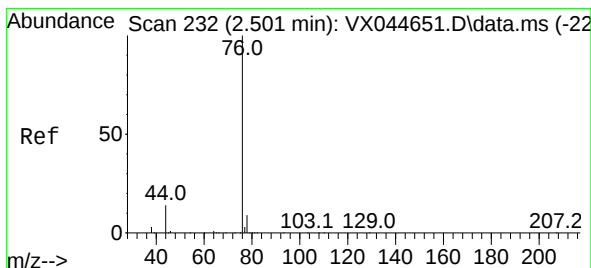
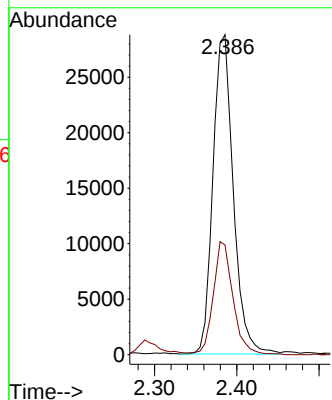
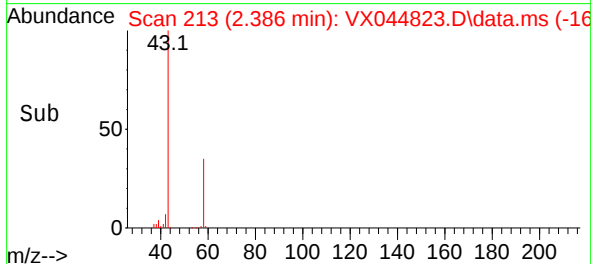


#16
Acetone
Concen: 80.282 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

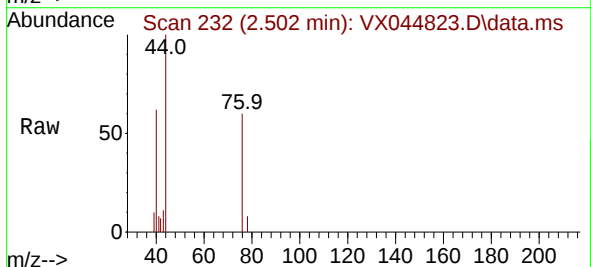
Instrument :
MSVOA_X
ClientSampleId :



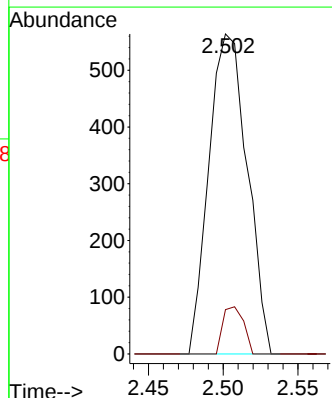
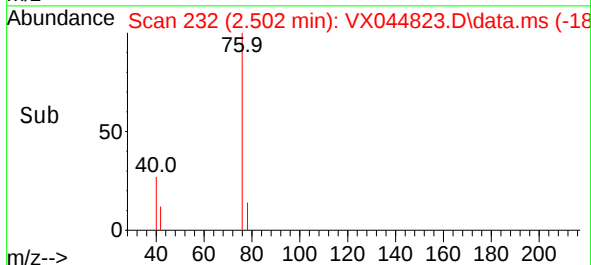
Tgt Ion: 43 Resp: 49644
Ion Ratio Lower Upper
43 100
58 34.1 24.6 37.0

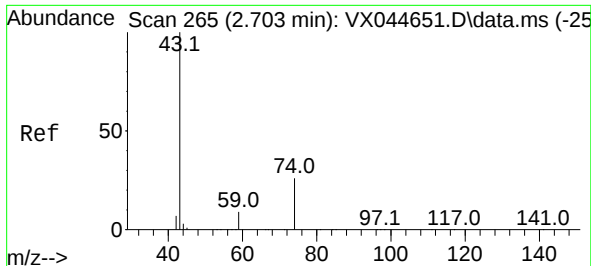


#17
Carbon Disulfide
Concen: 0.304 ug/l
RT: 2.502 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27



Tgt Ion: 76 Resp: 1005
Ion Ratio Lower Upper
76 100
78 13.8 7.1 10.7#





#18

Methyl Acetate

Concen: 1.370 ug/l

RT: 2.703 min Scan# 2613

Delta R.T. 0.000 min

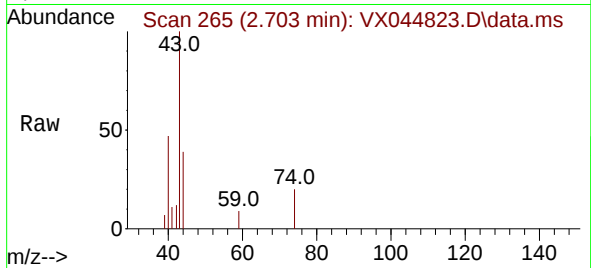
Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

ClientSampleId :

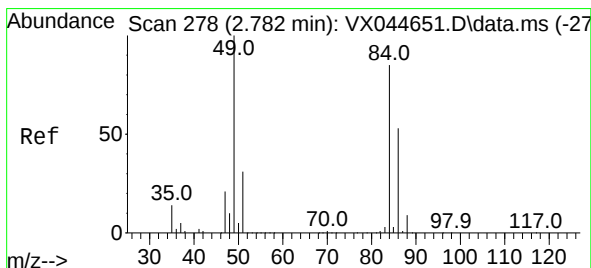
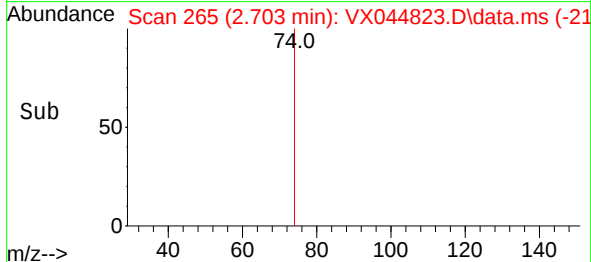
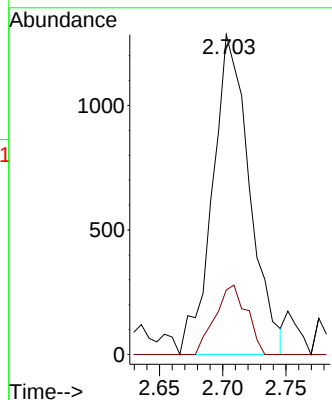


Tgt Ion: 43 Resp: 2613

Ion Ratio Lower Upper

43 100

74 18.5 19.8 29.8#



#20

Methylene Chloride

Concen: 2.377 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Tgt Ion: 84 Resp: 3423

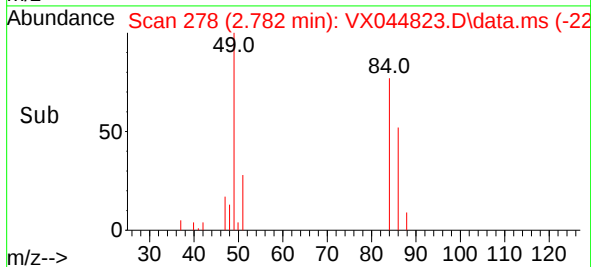
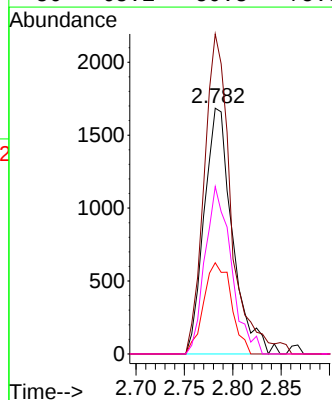
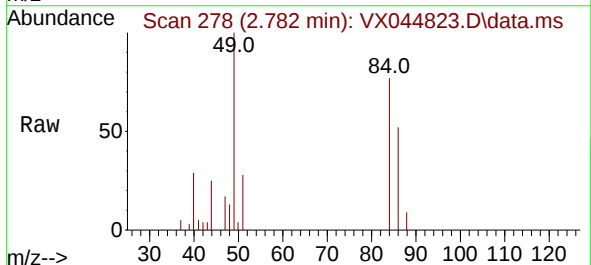
Ion Ratio Lower Upper

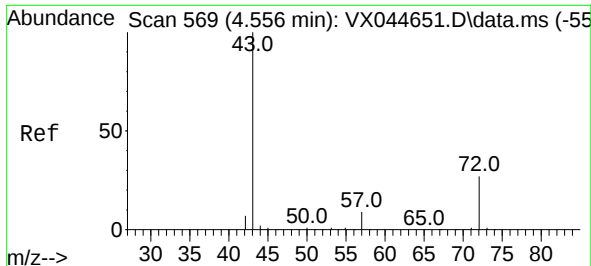
84 100

49 130.2 94.2 141.4

51 37.1 28.8 43.2

86 68.1 50.3 75.5





#25

2-Butanone

Concen: 9.114 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

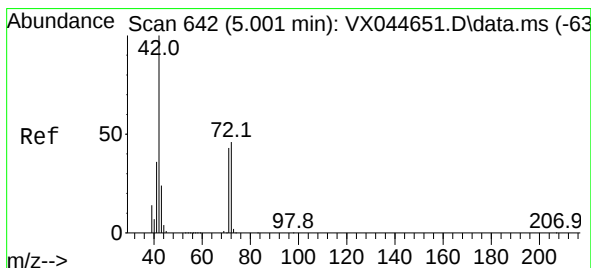
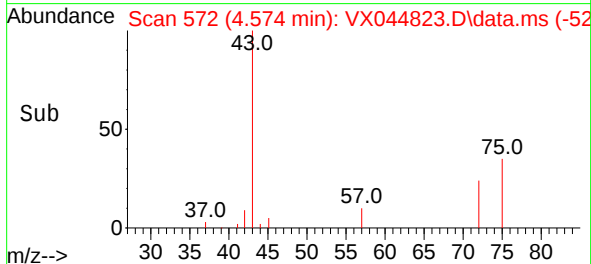
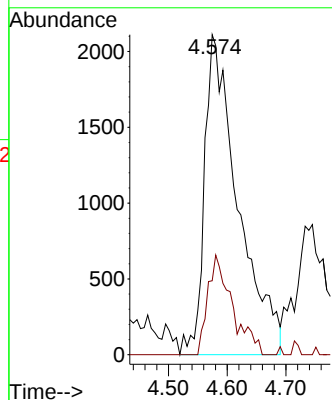
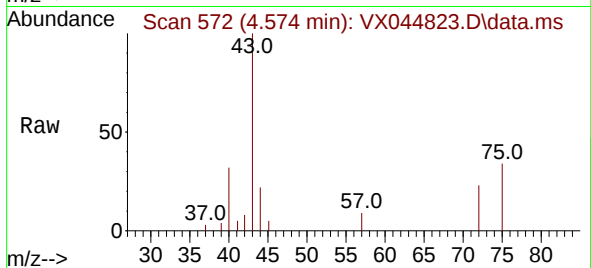
ClientSampleId :

Tgt Ion: 43 Resp: 8379

Ion Ratio Lower Upper

43 100

72 23.1 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.516 ug/l

RT: 5.032 min Scan# 647

Delta R.T. 0.031 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

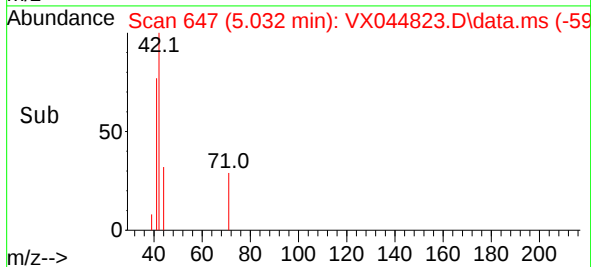
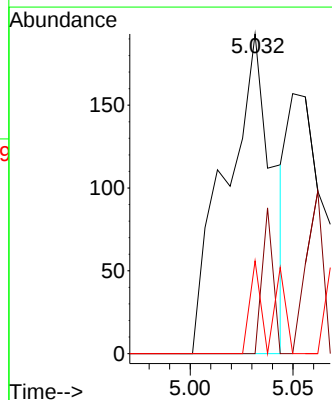
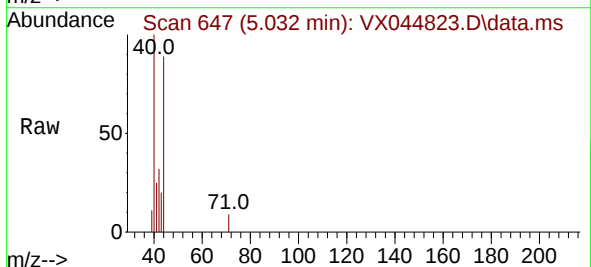
Tgt Ion: 42 Resp: 306

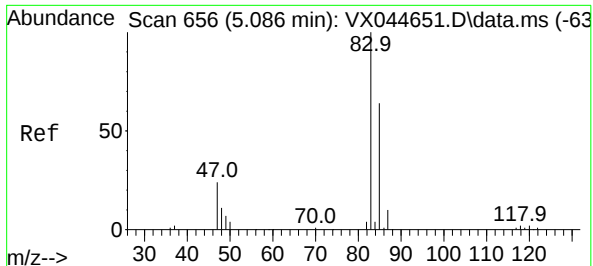
Ion Ratio Lower Upper

42 100

72 10.5 38.2 57.4#

71 13.1 35.3 52.9#





#30

Chloroform

Concen: 0.494 ug/l

RT: 5.099 min Scan# 60

Delta R.T. 0.012 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

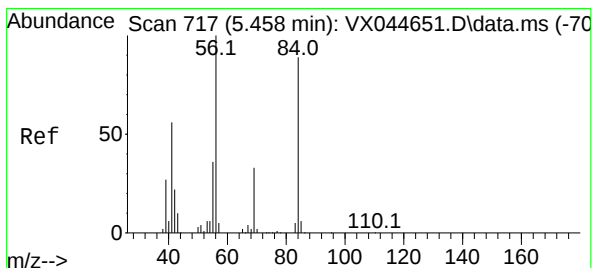
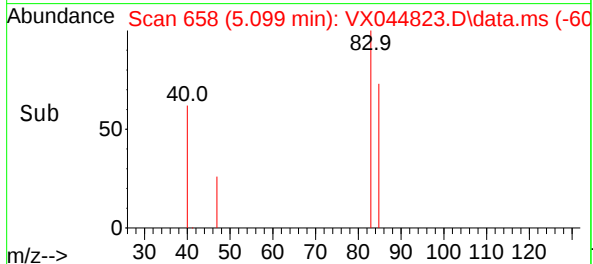
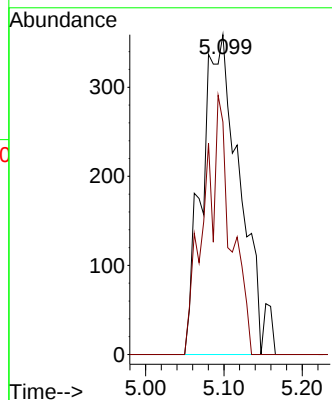
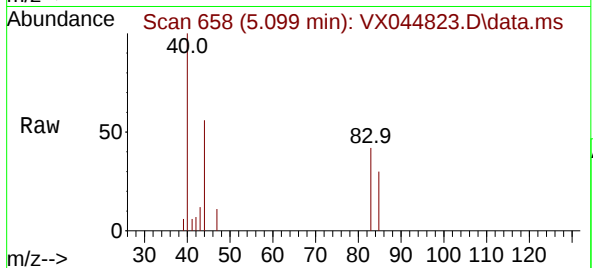
ClientSampleId :

Tgt Ion: 83 Resp: 1213

Ion Ratio Lower Upper

83 100

85 72.7 51.2 76.8



#31

Cyclohexane

Concen: 1.325 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

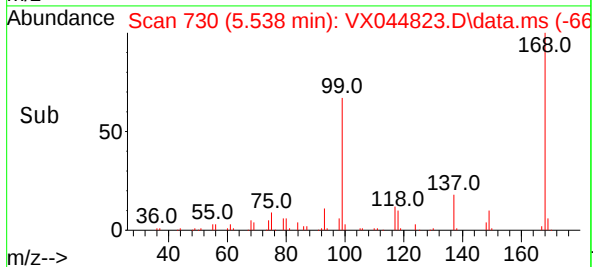
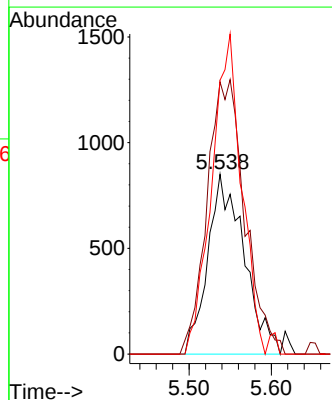
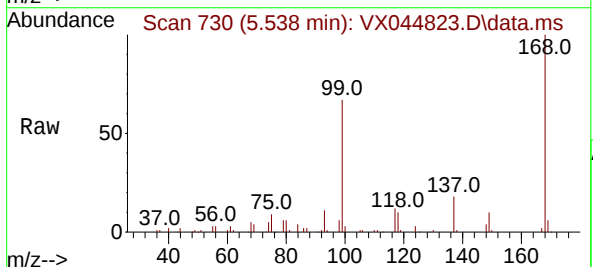
Tgt Ion: 56 Resp: 2607

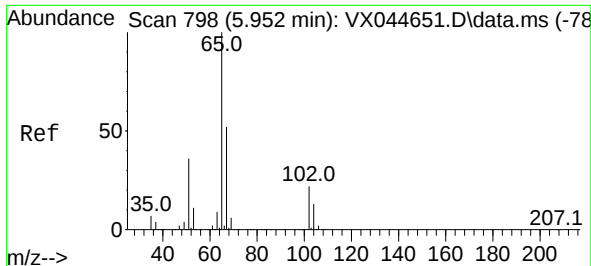
Ion Ratio Lower Upper

56 100

69 151.4 26.8 40.2#

84 152.4 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 48.236 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

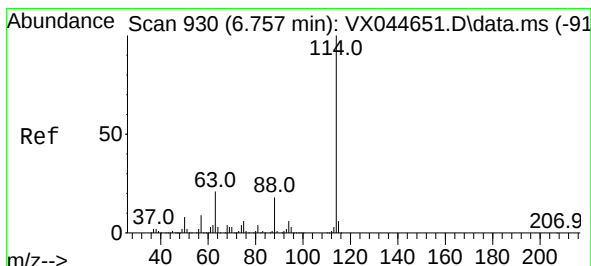
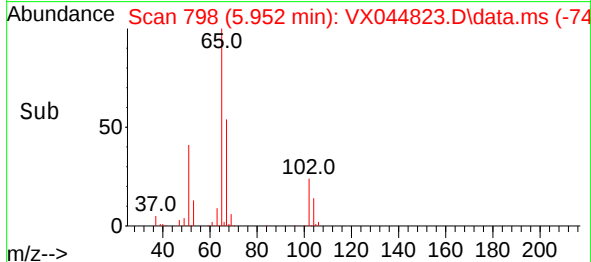
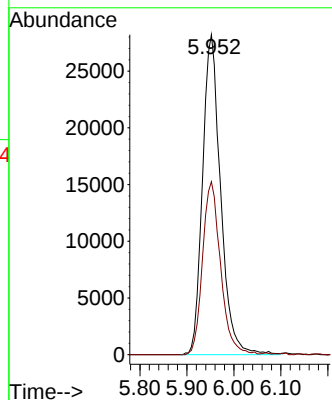
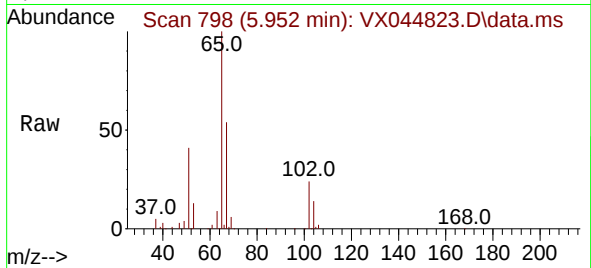
ClientSampleId :

Tgt Ion: 65 Resp: 75391

Ion Ratio Lower Upper

65 100

67 53.8 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

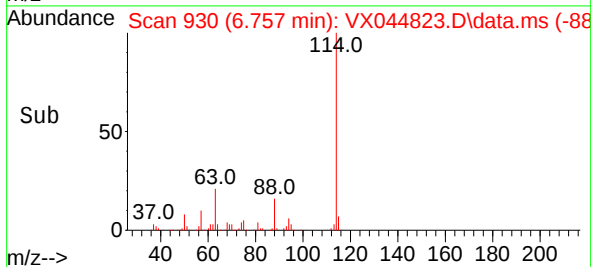
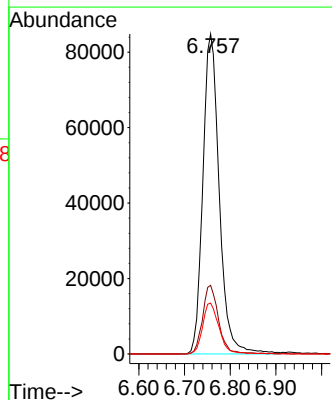
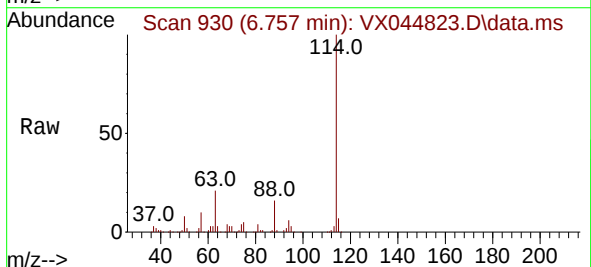
Tgt Ion: 114 Resp: 211300

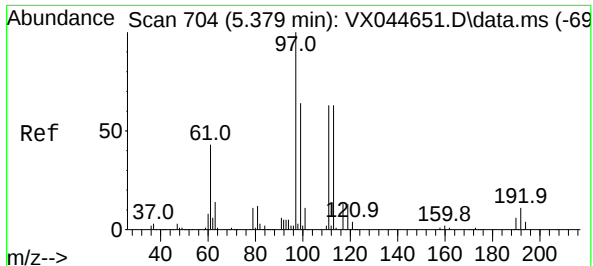
Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.0

88 15.9 0.0 35.4





#35

Dibromofluoromethane

Concen: 48.866 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

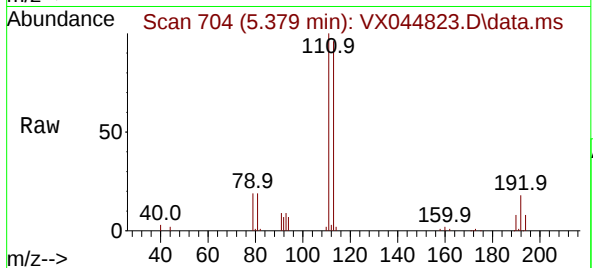
Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

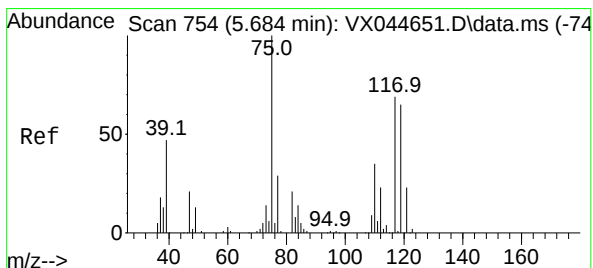
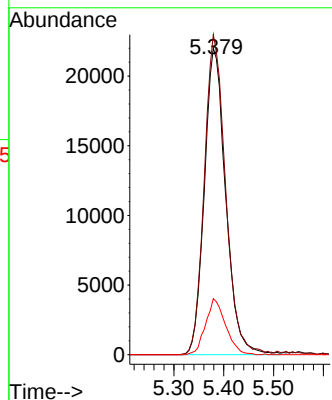
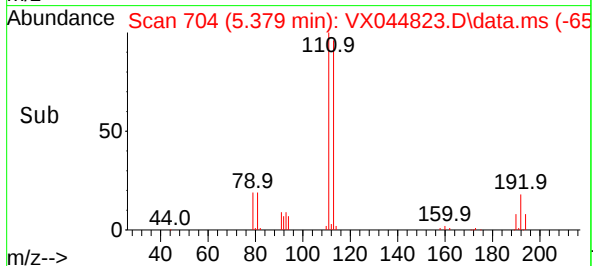
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	113	Resp:	65595
Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.6	122.4
192	17.1	14.4	21.6



#36

1,1-Dichloropropene

Concen: 4.578 ug/l

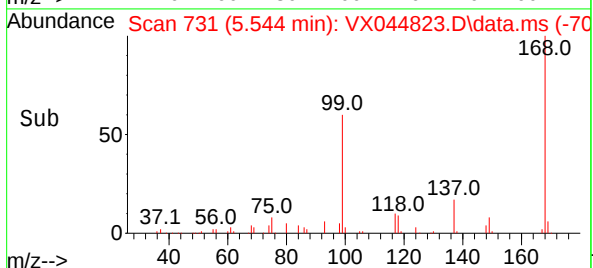
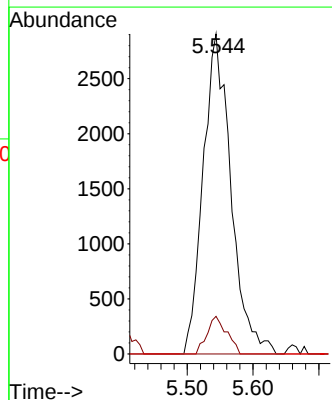
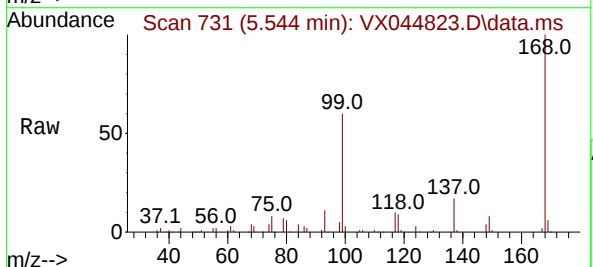
RT: 5.544 min Scan# 731

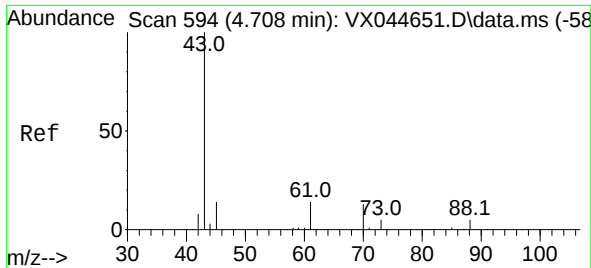
Delta R.T. -0.140 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Tgt Ion:	75	Resp:	8554
Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.9	53.8#
77	0.0	24.5	36.7#





#37

Ethyl Acetate

Concen: 1.920 ug/l

RT: 4.745 min Scan# 600

Delta R.T. 0.037 min

Lab File: VX044823.D

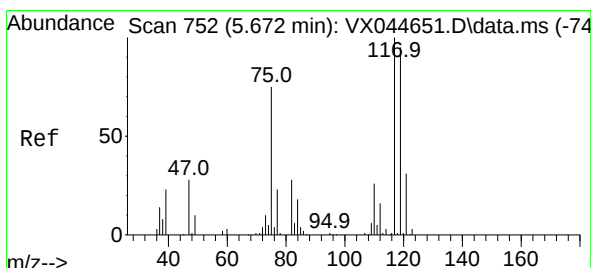
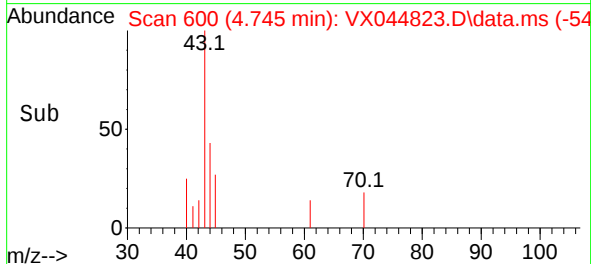
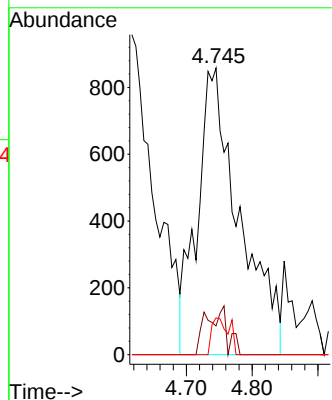
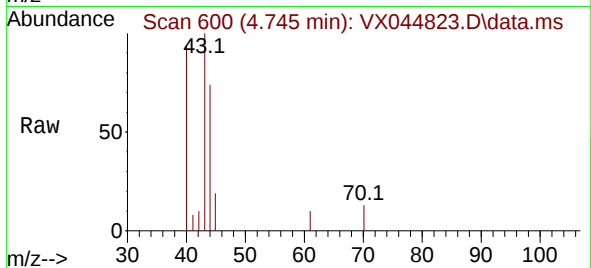
Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 43	Resp: 3820
Ion Ratio	Lower Upper
43 100	
61 3.8	10.9 16.3#
70 5.3	10.1 15.1#



#38

Carbon Tetrachloride

Concen: 5.136 ug/l

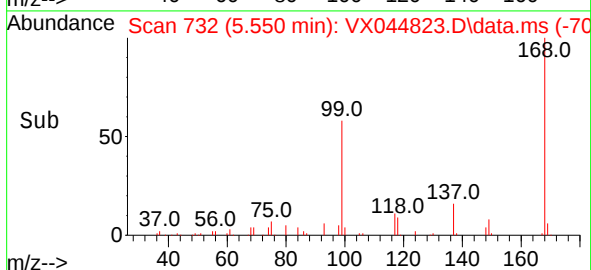
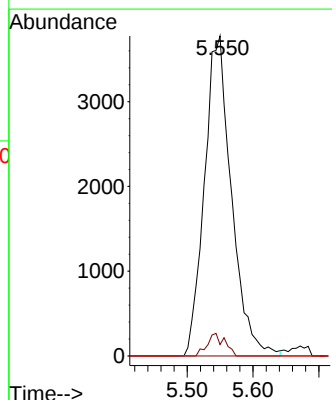
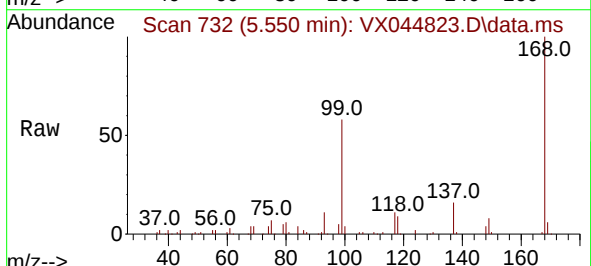
RT: 5.550 min Scan# 732

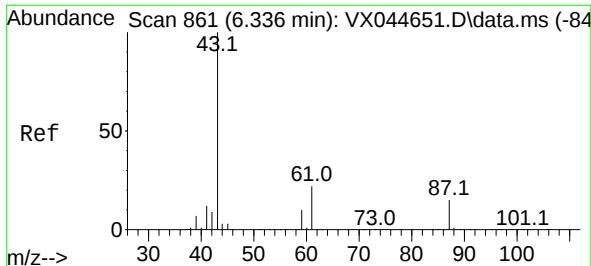
Delta R.T. -0.122 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Tgt Ion: 117	Resp: 10795
Ion Ratio	Lower Upper
117 100	
119 3.5	76.0 114.0#
121 0.0	24.6 36.8#

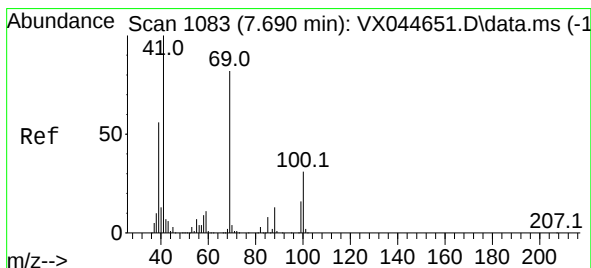
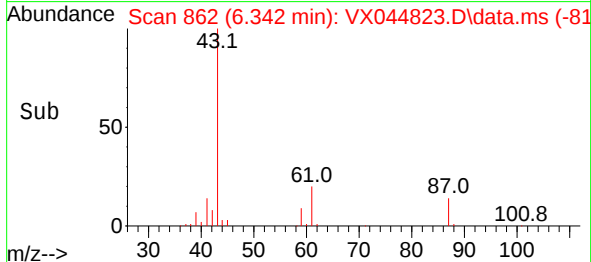
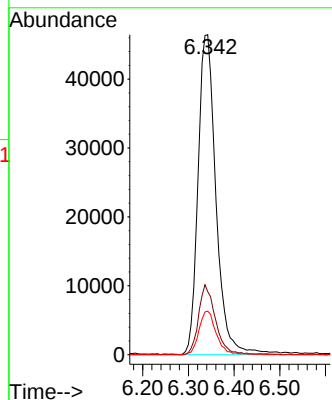
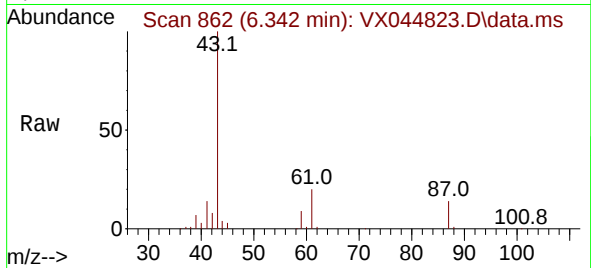




#43
Isopropyl Acetate
Concen: 34.740 ug/l
RT: 6.342 min Scan# 861
Delta R.T. 0.006 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

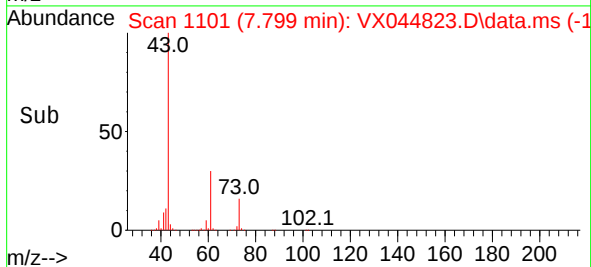
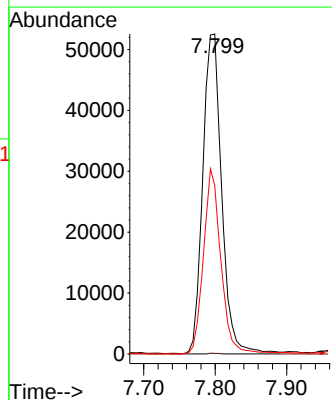
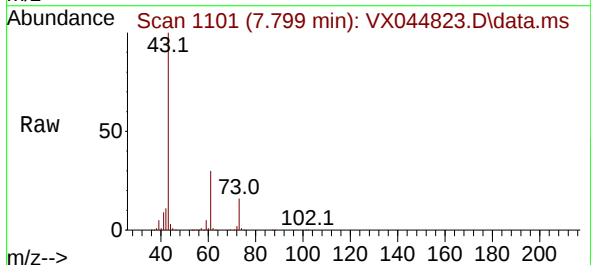
Instrument :
MSVOA_X
ClientSampleId :

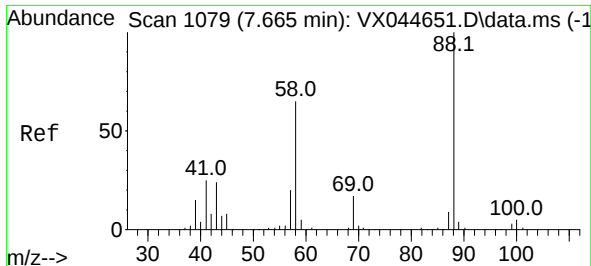
Tgt Ion: 43 Resp: 127173
Ion Ratio Lower Upper
43 100
61 20.5 16.6 24.8
87 13.1 11.0 16.6



#48
Methyl methacrylate
Concen: 56.675 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.110 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

Tgt Ion: 41 Resp: 96303
Ion Ratio Lower Upper
41 100
69 0.1 66.8 100.2#
39 53.5 47.4 71.0





#49

1,4-Dioxane

Concen: 2.087 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.128 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

ClientSampleId :

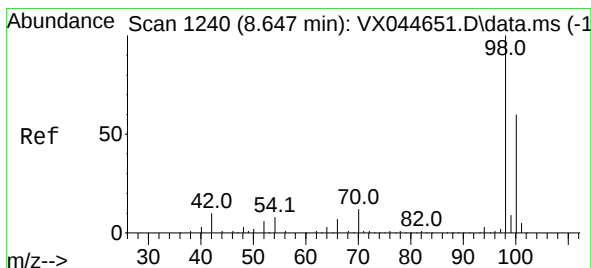
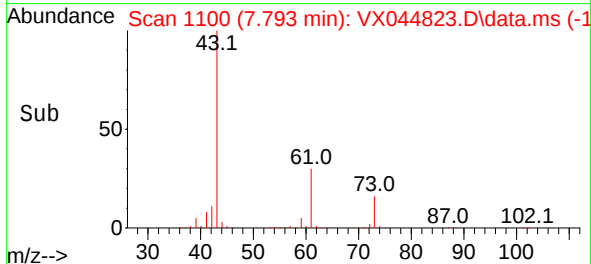
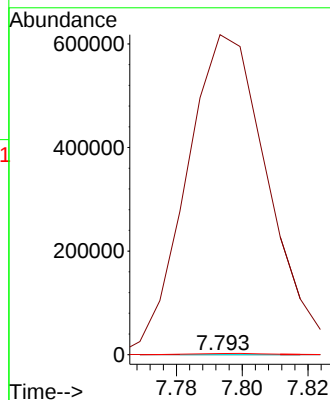
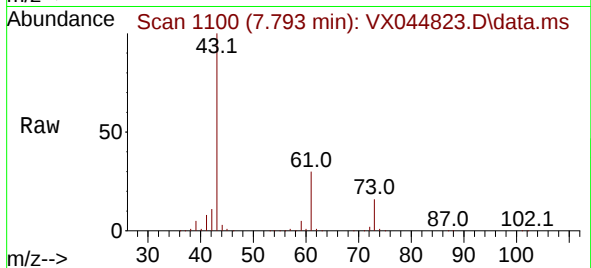
Tgt Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 1483194.6 27.0 40.4#

58 5616.2 55.8 83.8#



#50

Toluene-d8

Concen: 53.852 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044823.D

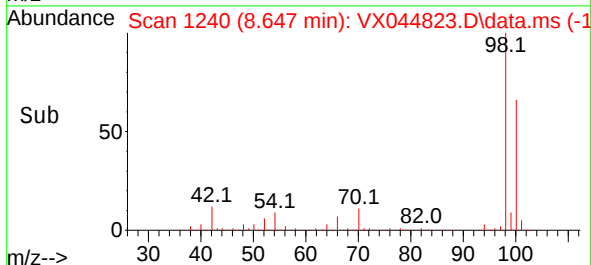
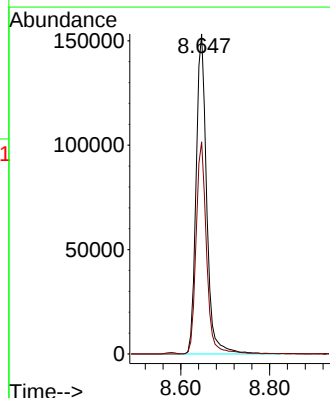
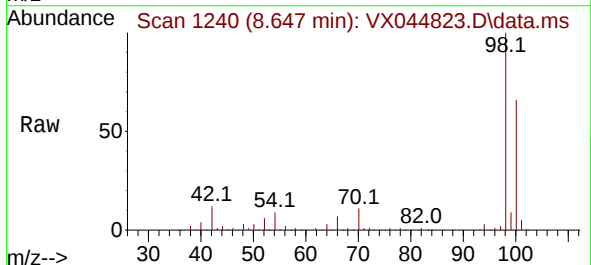
Acq: 03 Feb 2025 18:27

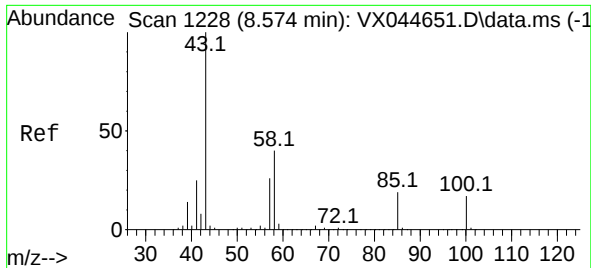
Tgt Ion: 98 Resp: 252058

Ion Ratio Lower Upper

98 100

100 65.2 53.2 79.8

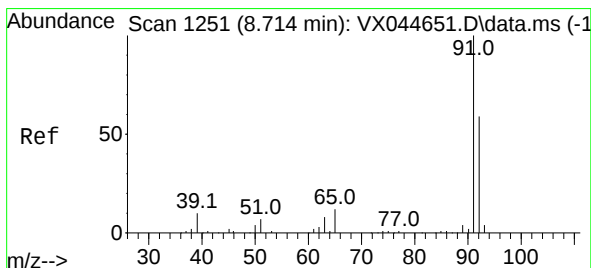
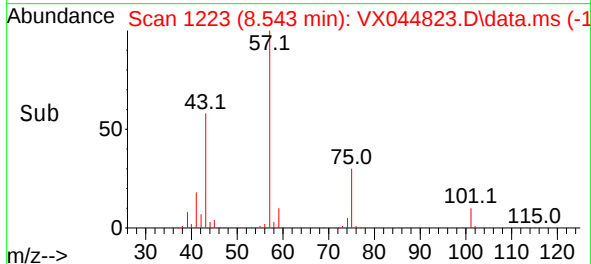
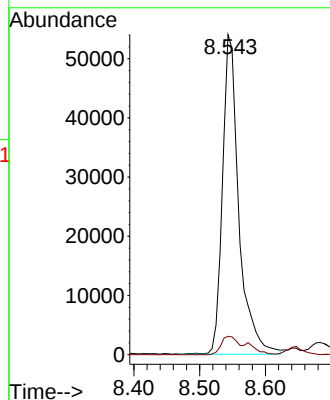
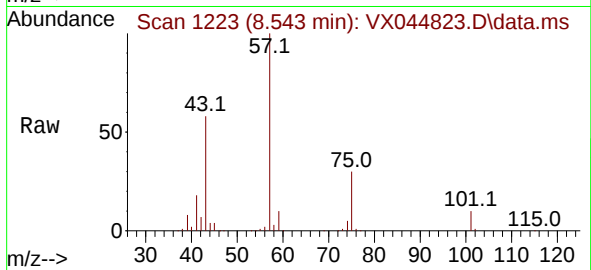




#51
4-Methyl-2-Pentanone
Concen: 46.186 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.030 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

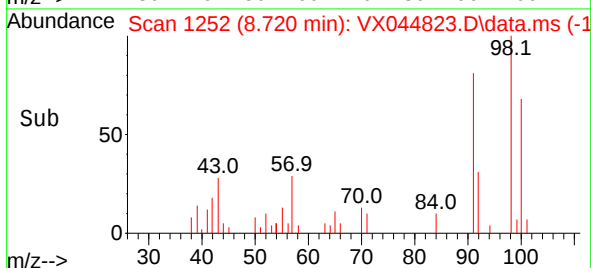
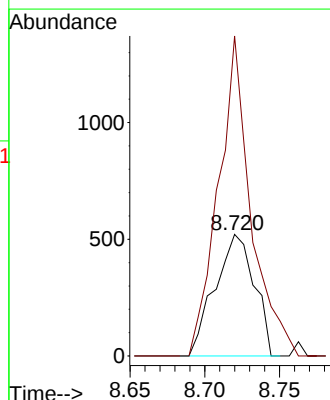
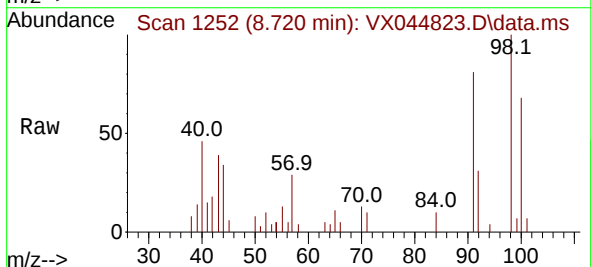
Instrument :
MSVOA_X
ClientSampleId :

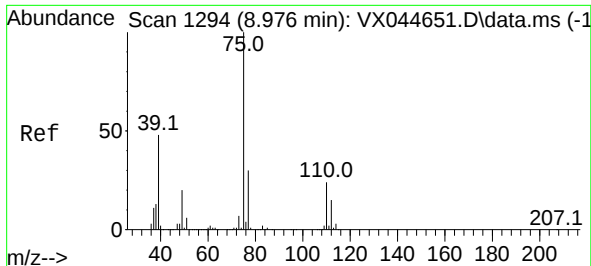
Tgt Ion: 43 Resp: 93433
Ion Ratio Lower Upper
43 100
58 6.3 31.9 47.9#



#52
Toluene
Concen: 0.269 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

Tgt Ion: 92 Resp: 954
Ion Ratio Lower Upper
92 100
91 217.2 135.7 203.5#





#53

t-1,3-Dichloropropene

Concen: 0.244 ug/l

RT: 8.945 min Scan# 11

Delta R.T. -0.030 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

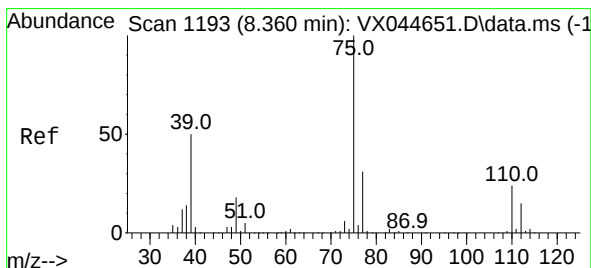
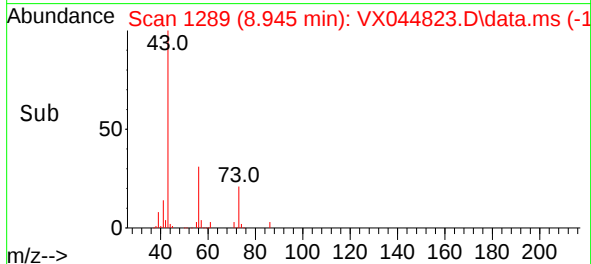
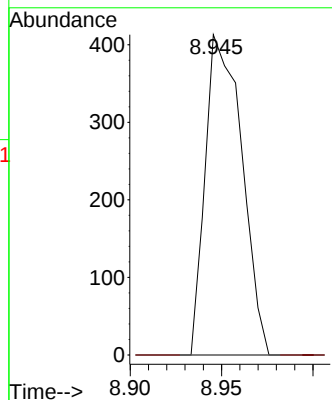
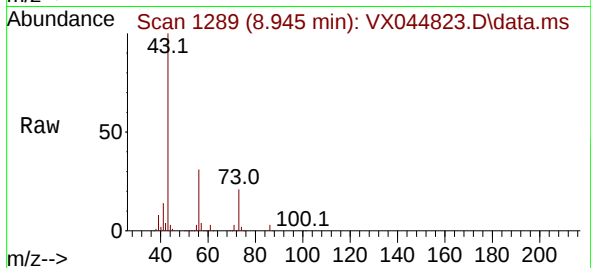
ClientSampleId :

Tgt Ion: 75 Resp: 574

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#



#54

cis-1,3-Dichloropropene

Concen: 17.361 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.189 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

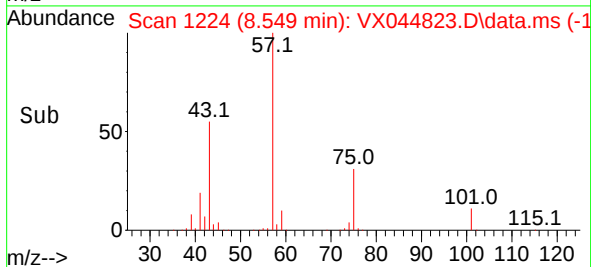
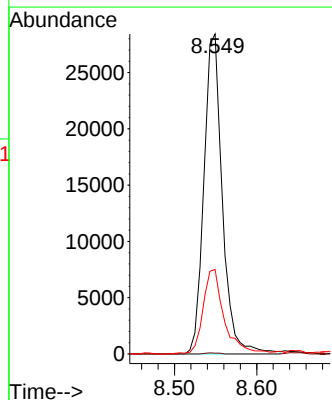
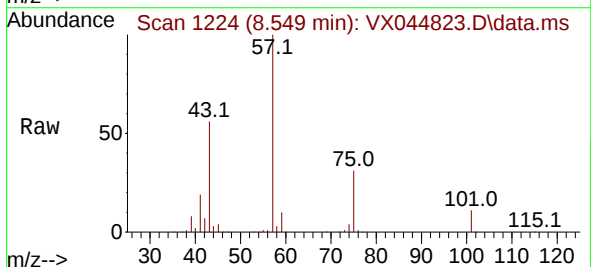
Tgt Ion: 75 Resp: 44256

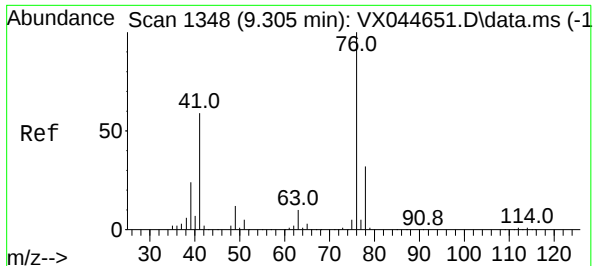
Ion Ratio Lower Upper

75 100

77 0.2 25.1 37.7#

39 26.1 40.3 60.5#

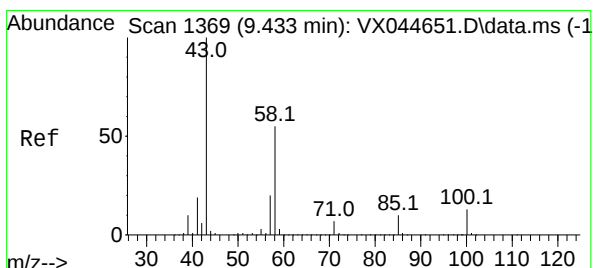
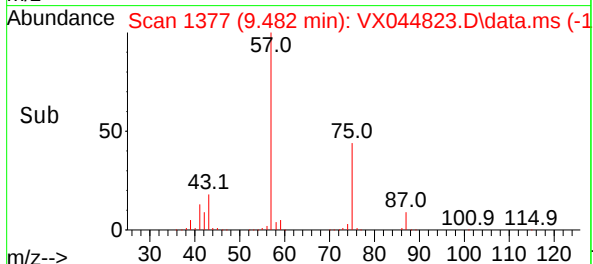
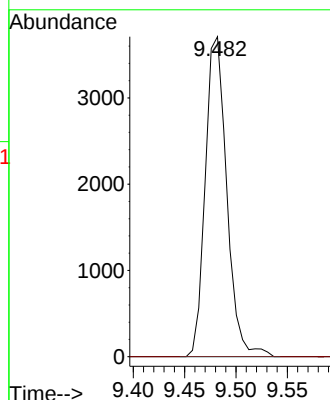
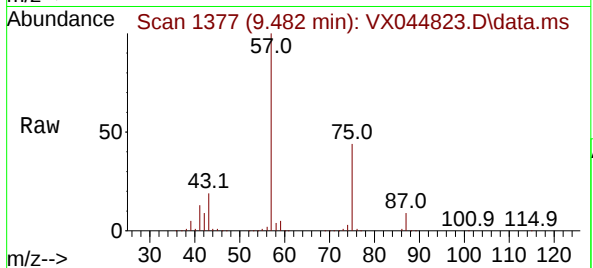




#57
1,3-Dichloropropane
Concen: 2.217 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

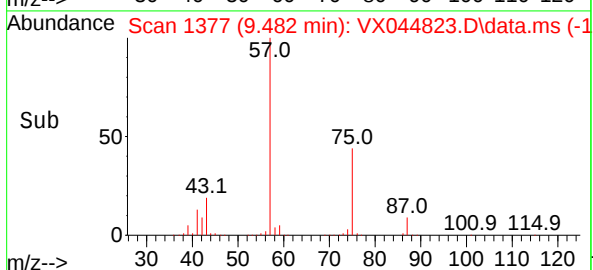
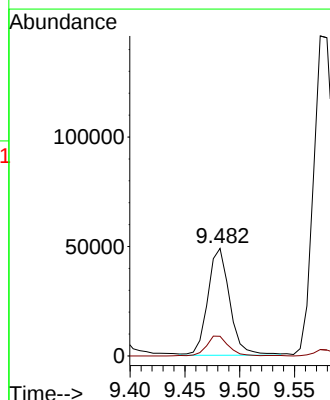
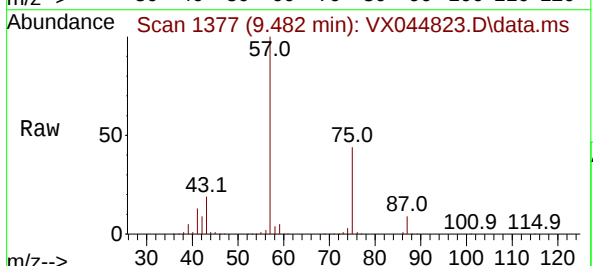
Instrument :
MSVOA_X
ClientSampleId :

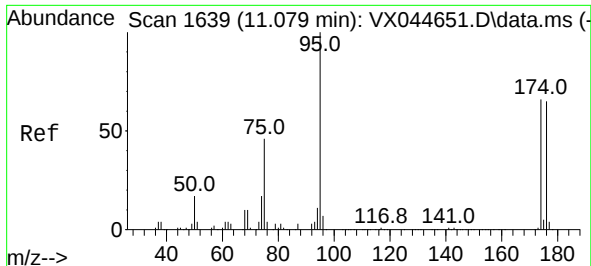
Tgt Ion: 76 Resp: 5414
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#



#59
2-Hexanone
Concen: 45.700 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.049 min
Lab File: VX044823.D
Acq: 03 Feb 2025 18:27

Tgt Ion: 43 Resp: 68016
Ion Ratio Lower Upper
43 100
58 19.4 27.8 83.3#





#62

4-Bromofluorobenzene

Concen: 49.126 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

ClientSampleId :

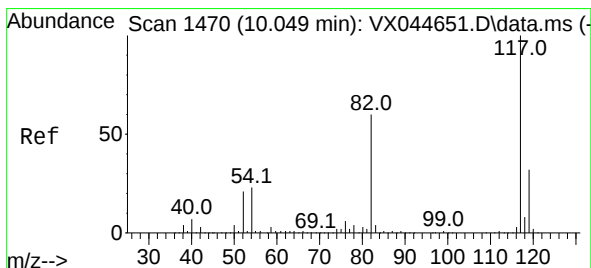
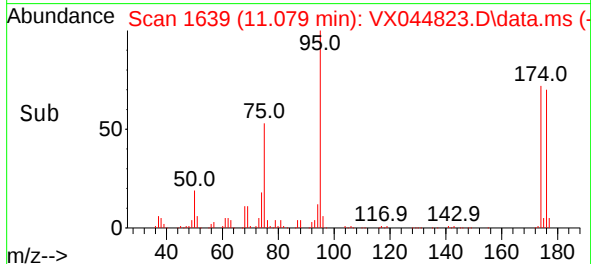
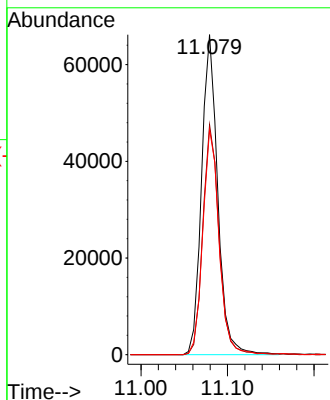
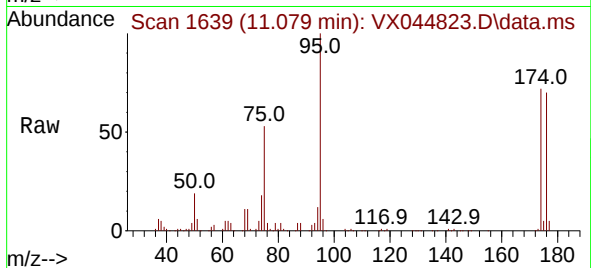
Tgt Ion: 95 Resp: 85717

Ion Ratio Lower Upper

95 100

174 72.2 0.0 133.0

176 70.9 0.0 129.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

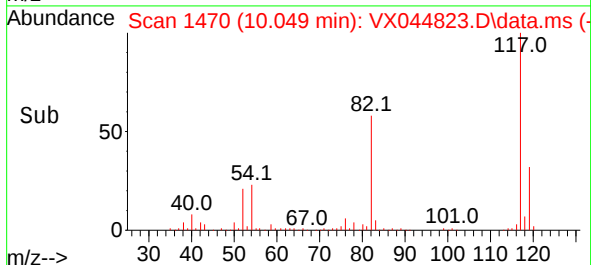
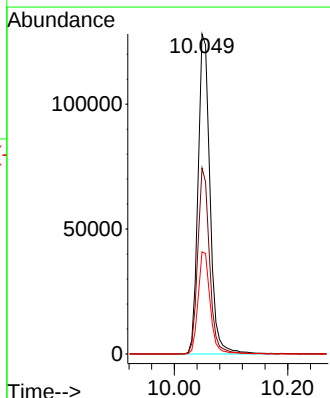
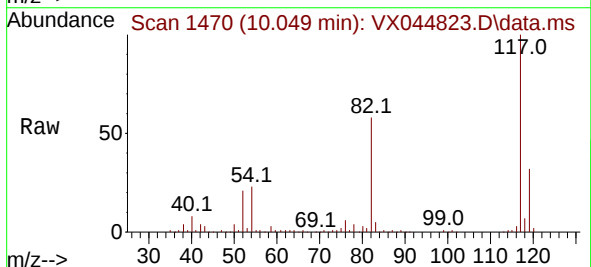
Tgt Ion: 117 Resp: 186902

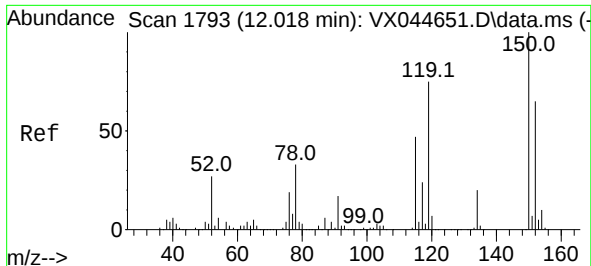
Ion Ratio Lower Upper

117 100

82 58.1 47.6 71.4

119 31.9 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

ClientSampleId :

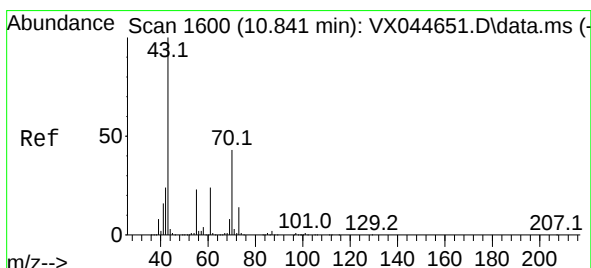
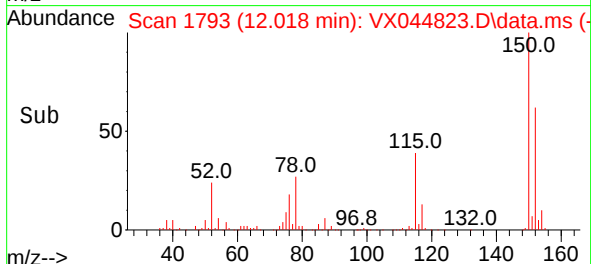
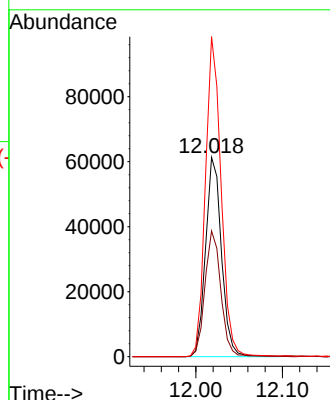
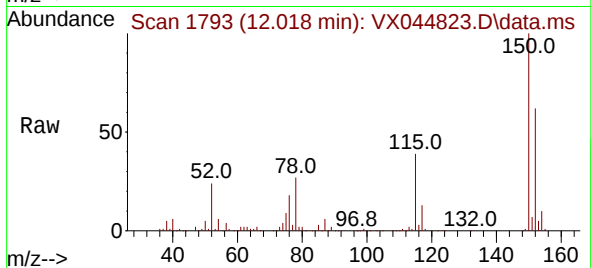
Tgt Ion:152 Resp: 78275

Ion Ratio Lower Upper

152 100

115 63.1 43.8 131.4

150 158.4 0.0 347.8



#74

N-ethyl acetate

Concen: 6.092 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.201 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Tgt Ion: 43 Resp: 19202

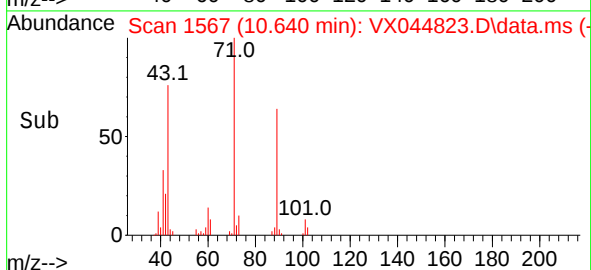
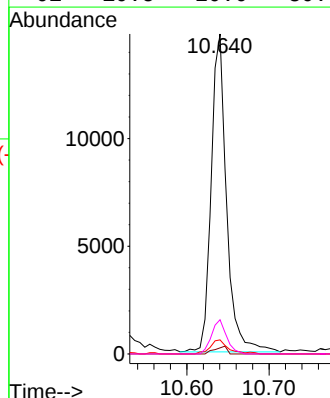
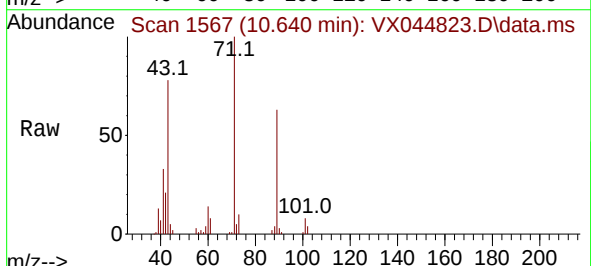
Ion Ratio Lower Upper

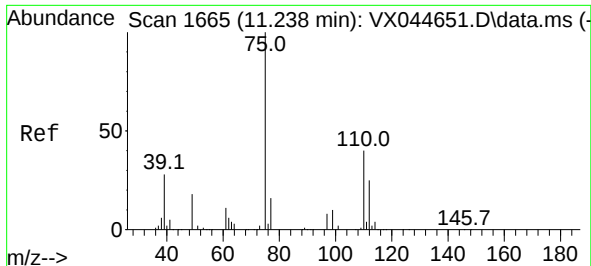
43 100

70 1.9 35.2 52.8#

55 5.3 19.0 28.4#

61 10.5 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 23.306 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Instrument :

MSVOA_X

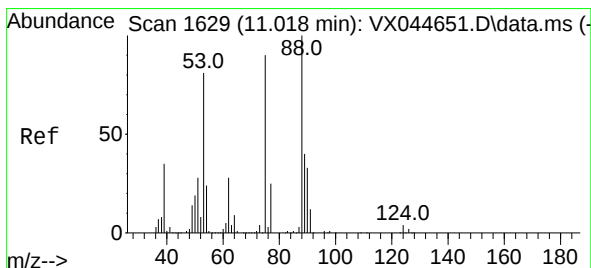
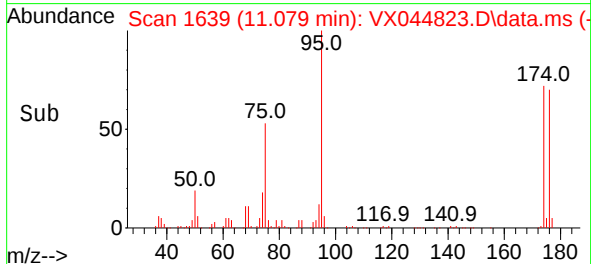
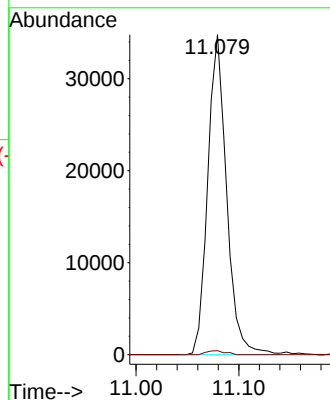
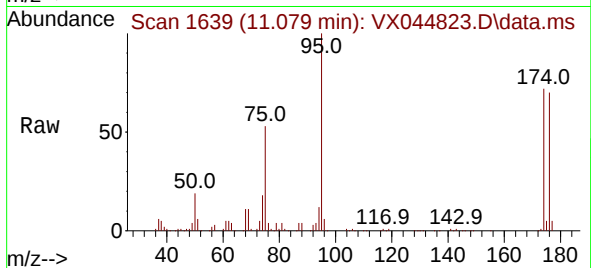
ClientSampleId :

Tgt Ion: 75 Resp: 44273

Ion Ratio Lower Upper

75 100

77 1.2 23.4 70.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.298 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX044823.D

Acq: 03 Feb 2025 18:27

Tgt Ion: 75 Resp: 44273

Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

89 0.0 37.4 56.0#

