

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
 Data File : VX046457.D
 Acq On : 02 Jun 2025 20:39
 Operator : JC/MD
 Sample : Q2155-01
 Misc : 2.50g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 446

Quant Time: Jun 03 01:37:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

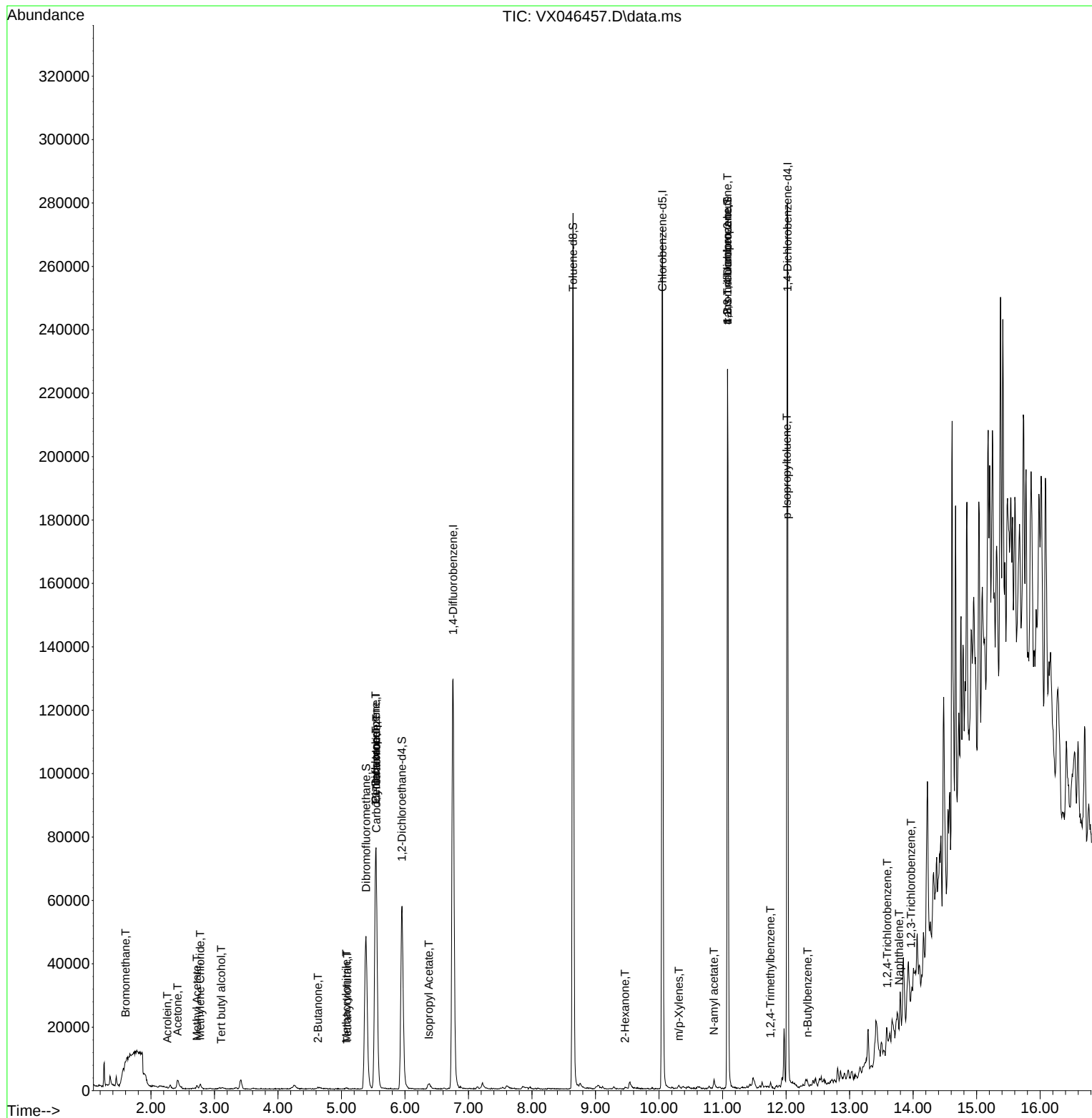
Internal Standards						
1) Pentafluorobenzene	5.544	168	65798	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127806	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	116488	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	53583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59072	48.156	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.320%		
35) Dibromofluoromethane	5.385	113	42671	46.364	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.720%		
50) Toluene-d8	8.647	98	158233	49.674	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.340%		
62) 4-Bromofluorobenzene	11.079	95	61555	50.377	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.760%		
Target Compounds					Qvalue	
5) Bromomethane	1.599	94	199	0.472	ug/l #	55
11) Tert butyl alcohol	3.105	59	596	3.461	ug/l #	72
13) Acrolein	2.258	56	42	0.214	ug/l #	64
16) Acetone	2.416	43	4226	8.592	ug/l	97
18) Methyl Acetate	2.721	43	1513	1.326	ug/l	92
20) Methylene Chloride	2.776	84	575	0.610	ug/l #	59
25) 2-Butanone	4.629	43	1233	1.727	ug/l #	82
29) Tetrahydrofuran	5.092	42	258	0.577	ug/l #	35
31) Cyclohexane	5.544	56	1996	1.365	ug/l #	19
36) 1,1-Dichloropropene	5.537	75	6345	5.131	ug/l #	50
38) Carbon Tetrachloride	5.550	117	7802	5.615	ug/l #	16
41) Methacrylonitrile	5.074	41	231	0.289	ug/l #	33
43) Isopropyl Acetate	6.373	43	1028	0.441	ug/l #	63
59) 2-Hexanone	9.464	43	315	0.275	ug/l	69
68) m/p-Xylenes	10.311	106	350	0.213	ug/l	94
74) N-amyl acetate	10.866	43	534	0.259	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	34925	27.078	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	34925	88.159	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.756	105	957	0.271	ug/l	94
86) p-Isopropyltoluene	12.012	119	986	0.277	ug/l #	72
89) n-Butylbenzene	12.341	91	852	0.273	ug/l #	70
93) 1,2,4-Trichlorobenzene	13.591	180	309	0.303	ug/l #	22
95) Naphthalene	13.780	128	2834	0.758	ug/l #	84
96) 1,2,3-Trichlorobenzene	13.969	180	644	0.613	ug/l #	11

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

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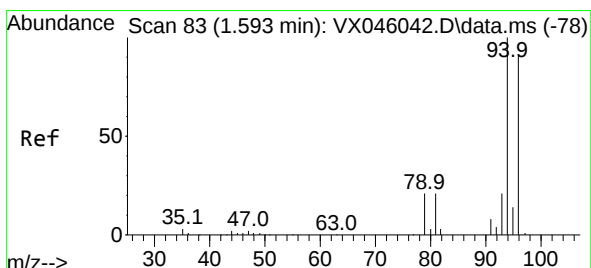
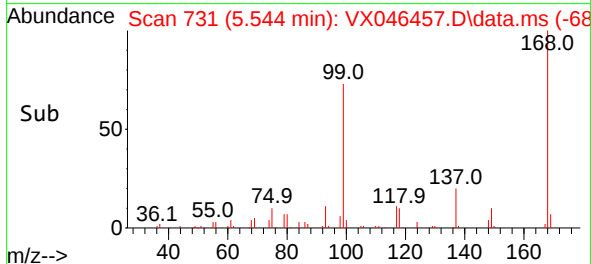
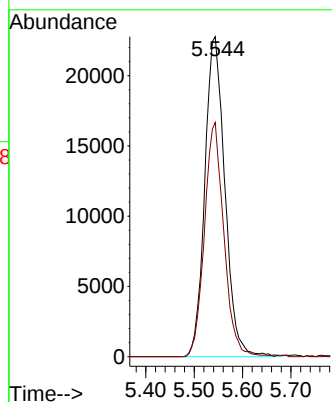
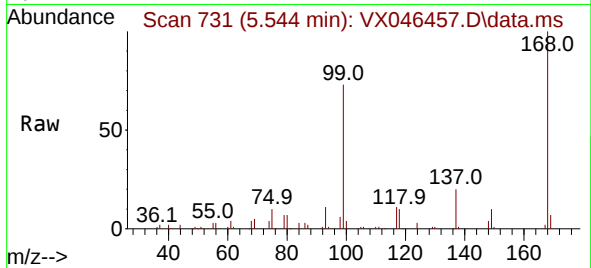




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

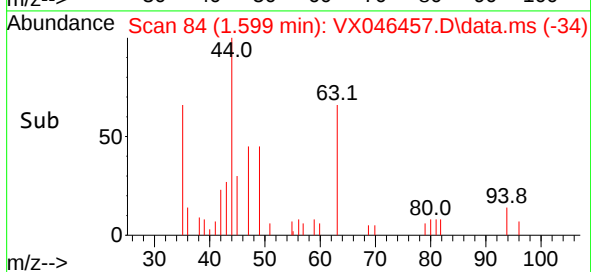
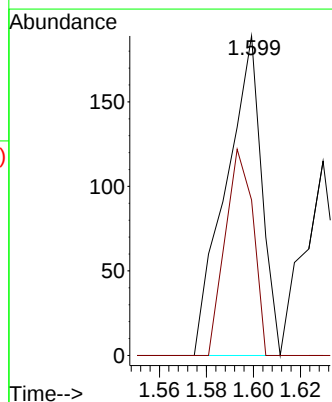
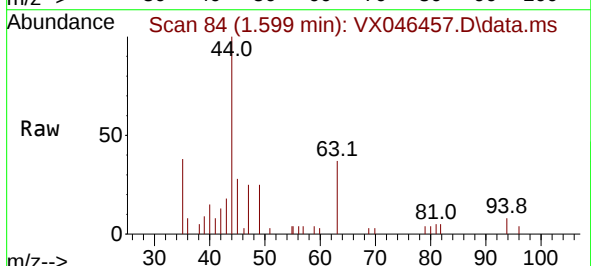
Instrument :
MSVOA_X
ClientSampleId :
446

Tgt Ion:168 Resp: 65798
Ion Ratio Lower Upper
168 100
99 73.2 54.9 82.3



#5
Bromomethane
Concen: 0.472 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion: 94 Resp: 199
Ion Ratio Lower Upper
94 100
96 48.7 72.8 109.2#





#11

Tert butyl alcohol

Concen: 3.461 ug/l

RT: 3.105 min Scan# 310

Delta R.T. 0.128 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

Instrument :

MSVOA_X

ClientSampleId :

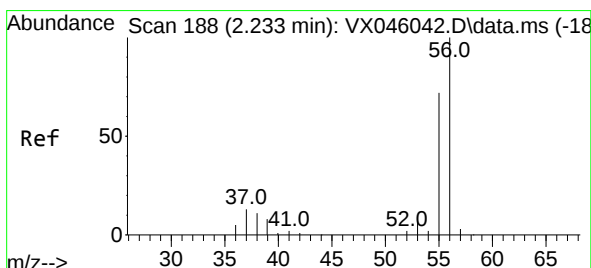
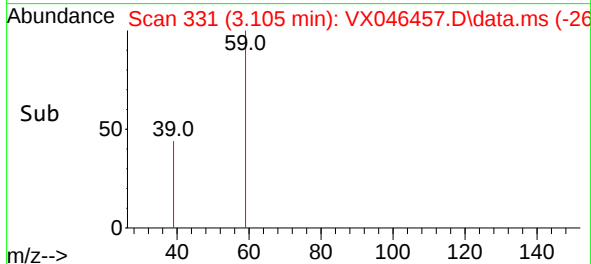
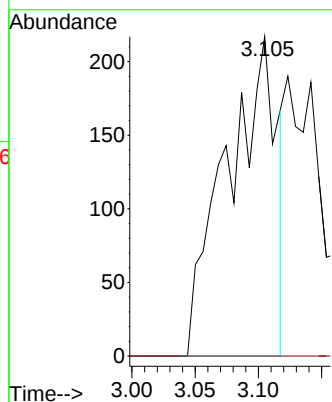
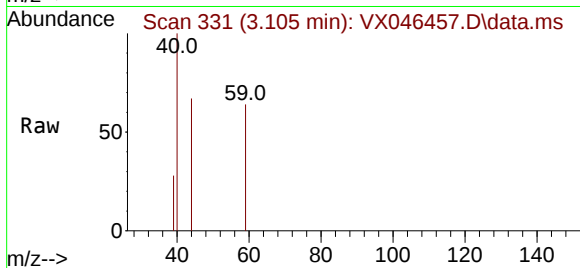
446

Tgt Ion: 59 Resp: 596

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#13

Acrolein

Concen: 0.214 ug/l

RT: 2.258 min Scan# 192

Delta R.T. 0.024 min

Lab File: VX046457.D

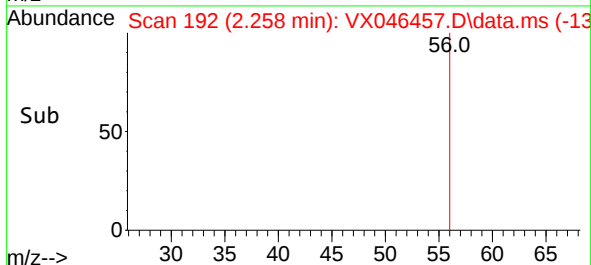
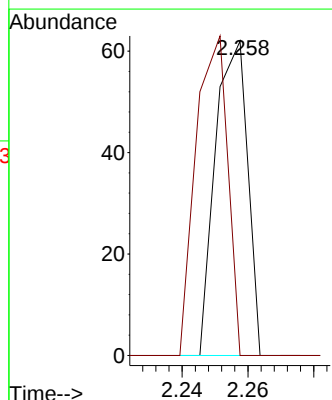
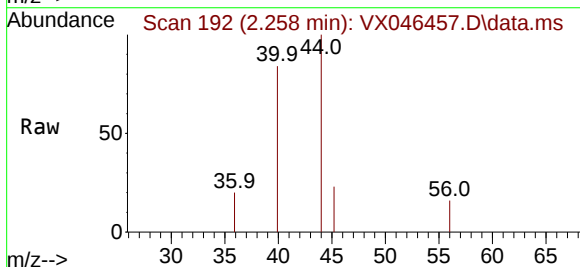
Acq: 02 Jun 2025 20:39

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

55 100.0 56.2 84.4#

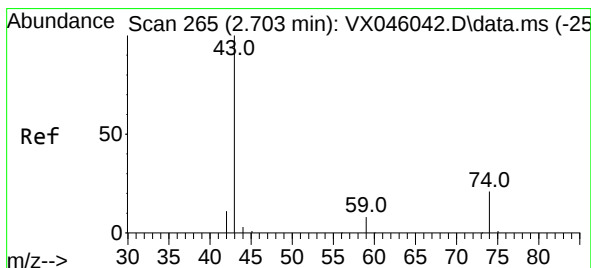
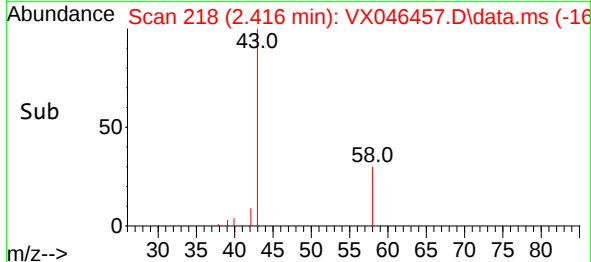
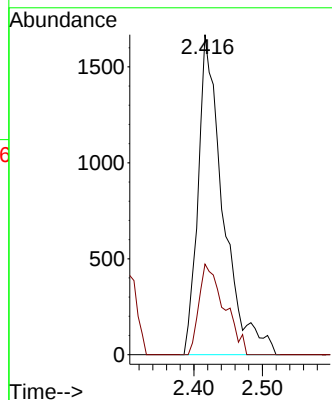
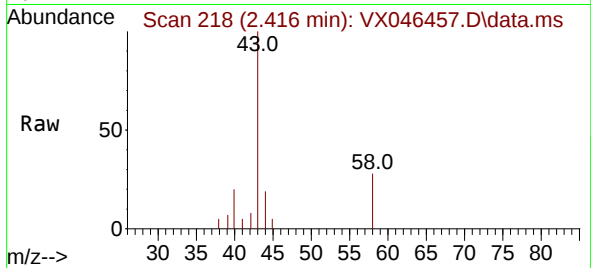




#16
Acetone
Concen: 8.592 ug/l
RT: 2.416 min Scan# 213
Delta R.T. 0.030 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

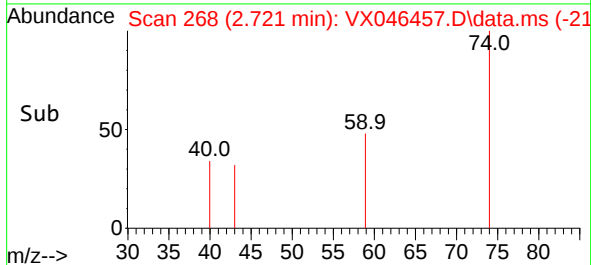
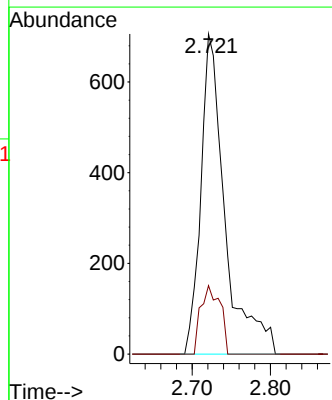
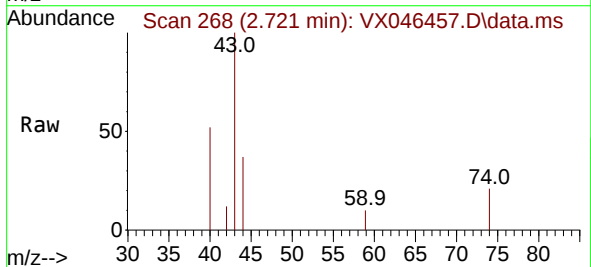
Instrument :
MSVOA_X
ClientSampleId :
446

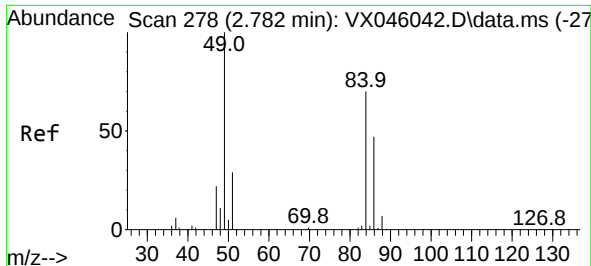
Tgt Ion: 43 Resp: 4226
Ion Ratio Lower Upper
43 100
58 28.3 21.2 31.8



#18
Methyl Acetate
Concen: 1.326 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.018 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion: 43 Resp: 1513
Ion Ratio Lower Upper
43 100
74 17.1 16.7 25.1

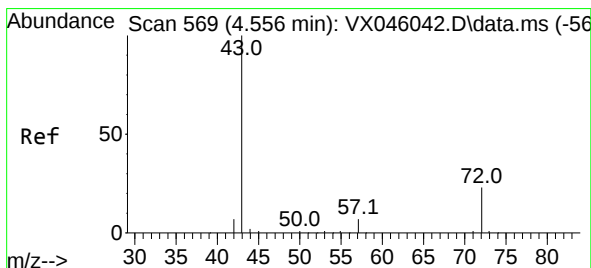
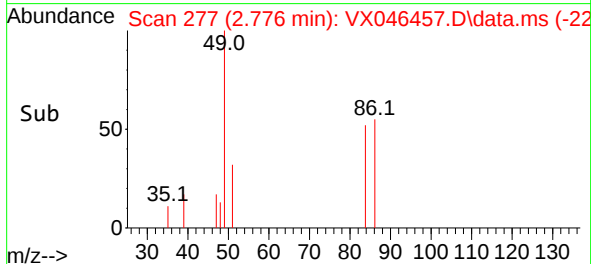
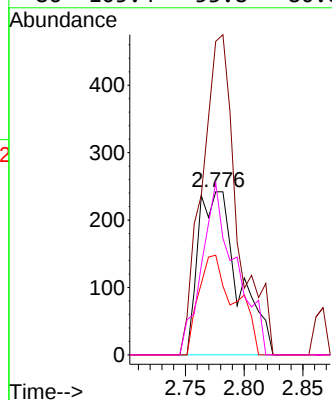
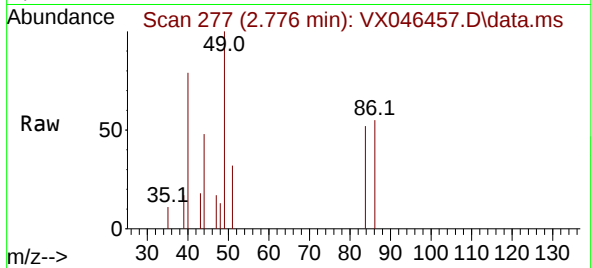




#20
Methylene Chloride
Concen: 0.610 ug/l
RT: 2.776 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

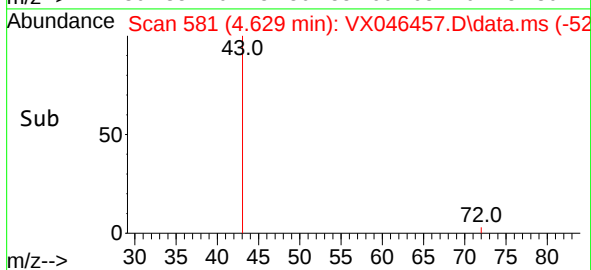
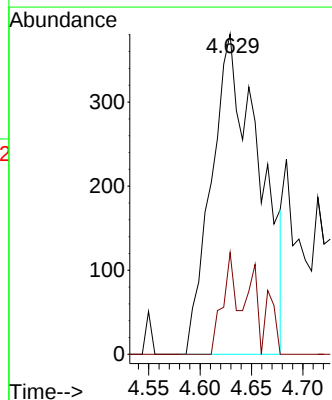
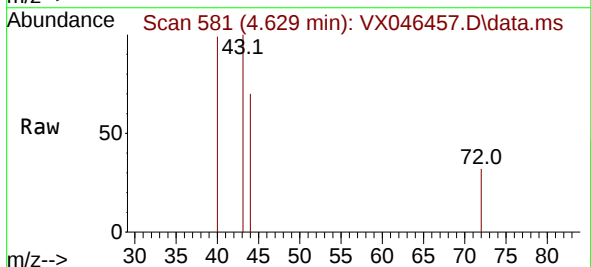
Instrument :
MSVOA_X
ClientSampleId :
446

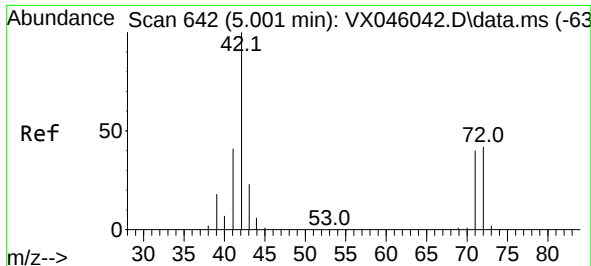
Tgt Ion: 84 Resp: 575
Ion Ratio Lower Upper
84 100
49 192.1 113.9 170.9#
51 61.2 33.5 50.3#
86 105.4 53.8 80.8#



#25
2-Butanone
Concen: 1.727 ug/l
RT: 4.629 min Scan# 581
Delta R.T. 0.073 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion: 43 Resp: 1233
Ion Ratio Lower Upper
43 100
72 31.8 18.4 27.6#





#29

Tetrahydrofuran

Concen: 0.577 ug/l

RT: 5.092 min Scan# 61

Delta R.T. 0.091 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

Instrument :

MSVOA_X

ClientSampleId :

446

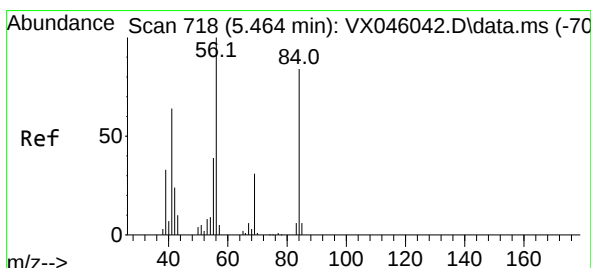
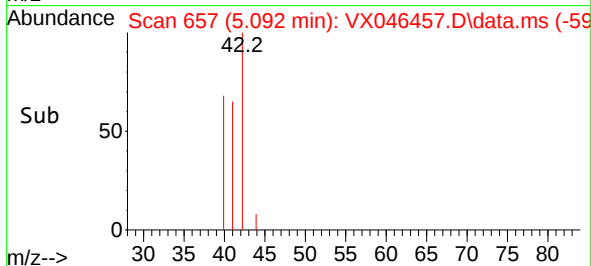
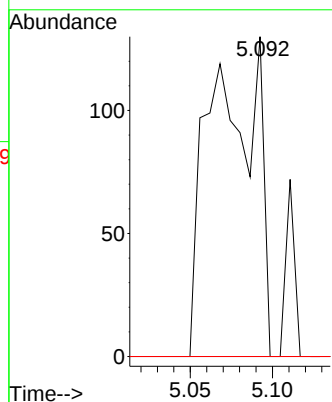
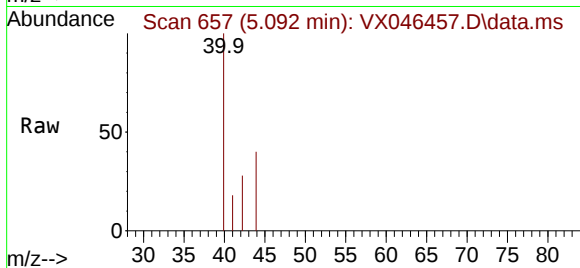
Tgt Ion: 42 Resp: 258

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.4 47.2#



#31

Cyclohexane

Concen: 1.365 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

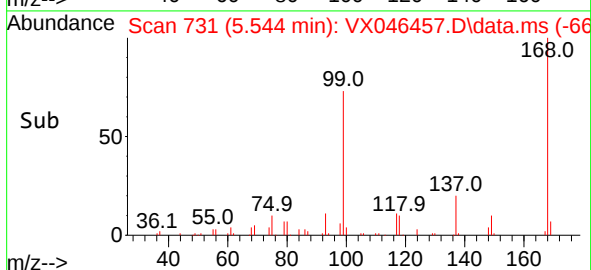
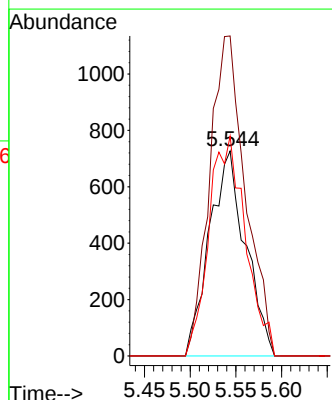
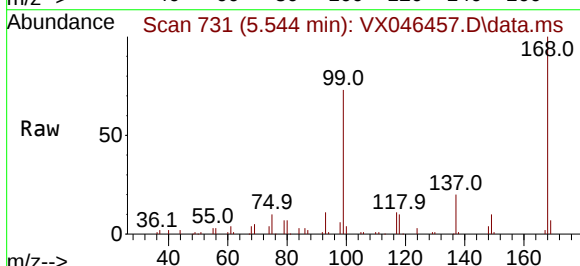
Tgt Ion: 56 Resp: 1996

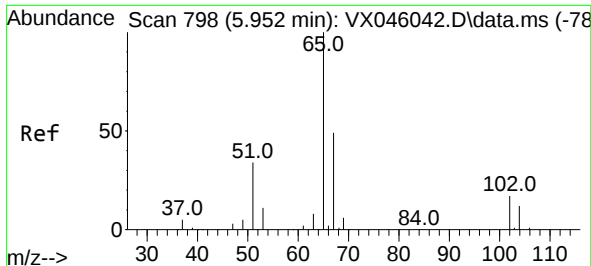
Ion Ratio Lower Upper

56 100

69 156.1 24.4 36.6#

84 107.3 66.9 100.3#

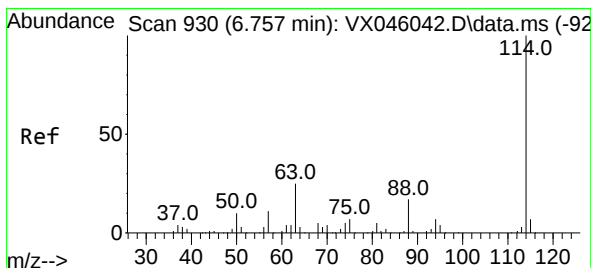
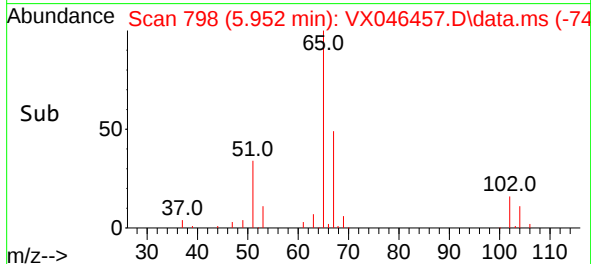
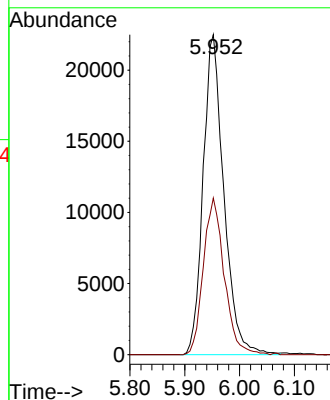
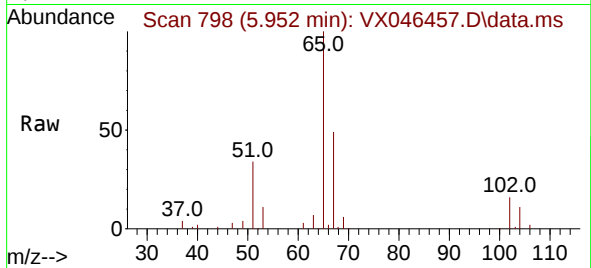




#33
 1,2-Dichloroethane-d4
 Concen: 48.156 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. -0.000 min
 Lab File: VX046457.D
 Acq: 02 Jun 2025 20:39

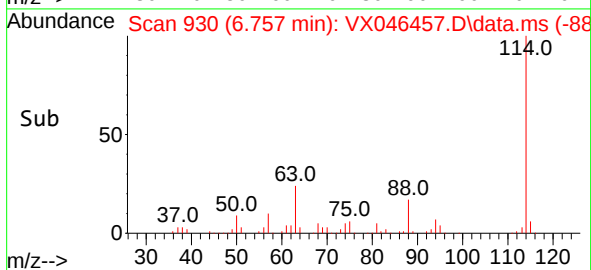
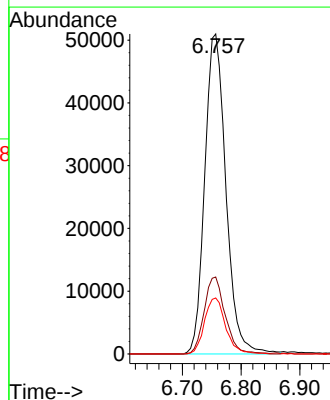
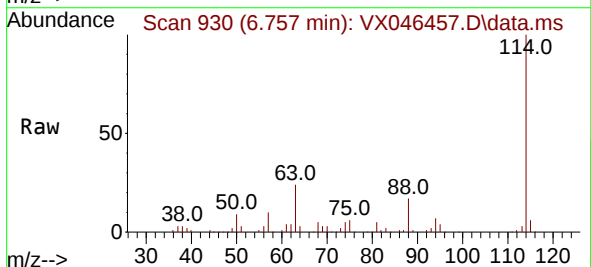
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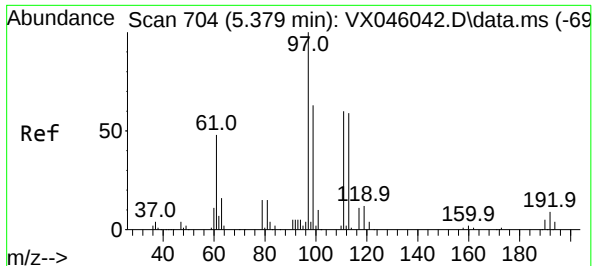
Tgt Ion: 65 Resp: 59072
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 99.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 930
 Delta R.T. -0.000 min
 Lab File: VX046457.D
 Acq: 02 Jun 2025 20:39

Tgt Ion: 114 Resp: 127806
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 49.2
 88 17.5 0.0 33.6

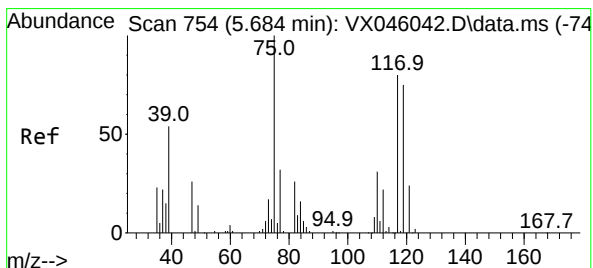
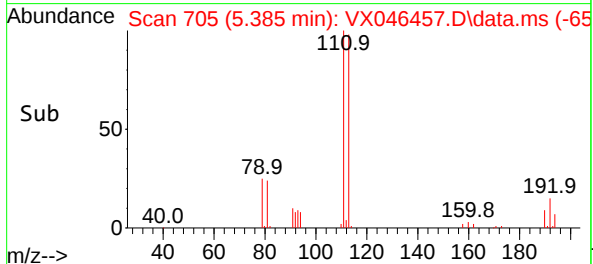
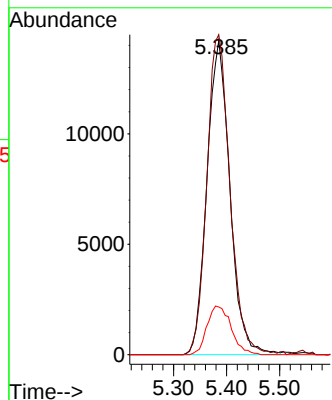
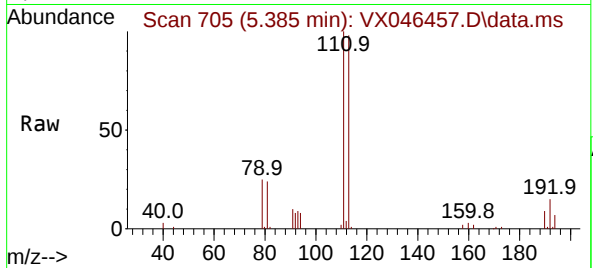




#35
Dibromofluoromethane
Concen: 46.364 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

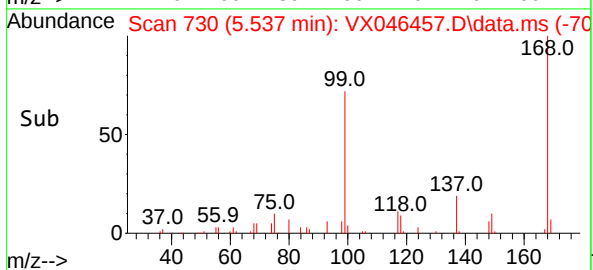
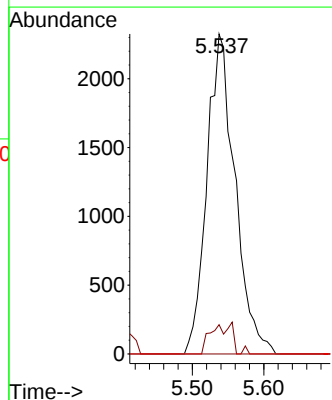
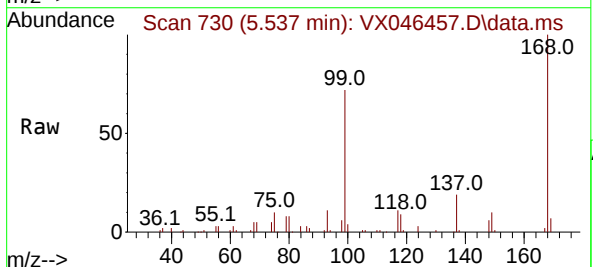
Instrument :
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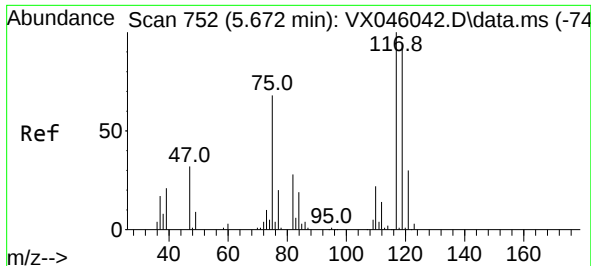
Tgt Ion:113 Resp: 42671
Ion Ratio Lower Upper
113 100
111 102.7 83.1 124.7
192 16.4 13.3 19.9



#36
1,1-Dichloropropene
Concen: 5.131 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

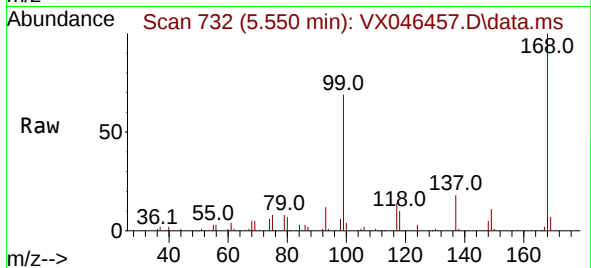
Tgt Ion: 75 Resp: 6345
Ion Ratio Lower Upper
75 100
110 7.2 16.3 48.9#
77 0.0 24.3 36.5#



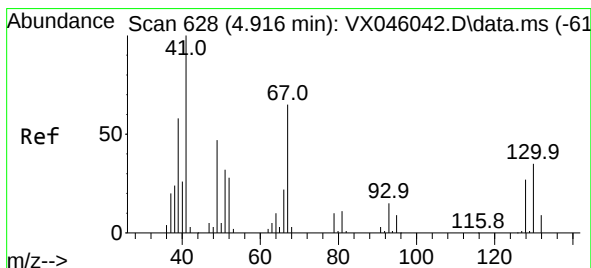
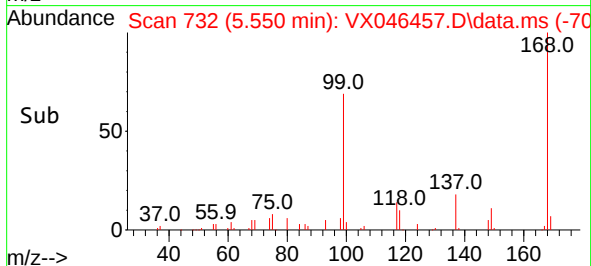
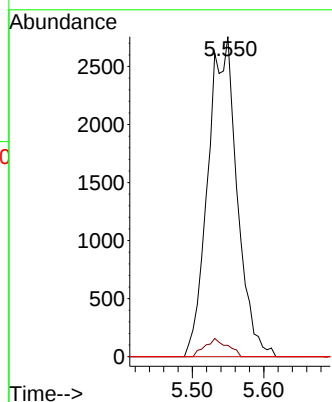


#38
Carbon Tetrachloride
Concen: 5.615 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Instrument :
MSVOA_X
ClientSampleId :
446

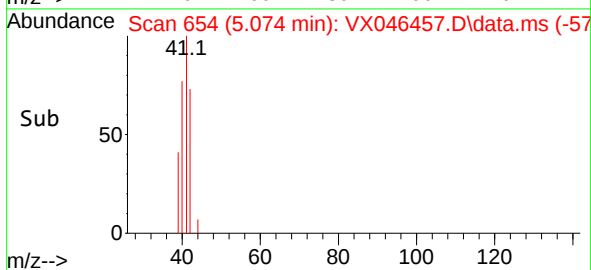
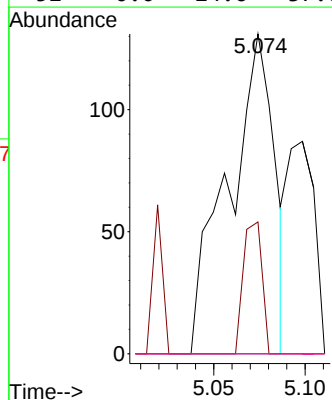
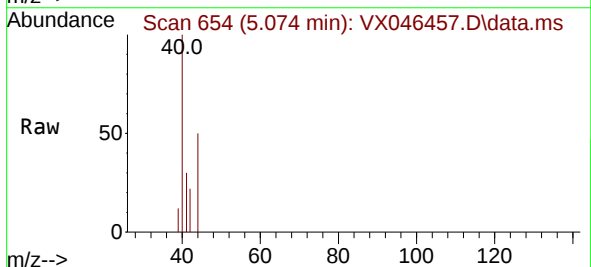


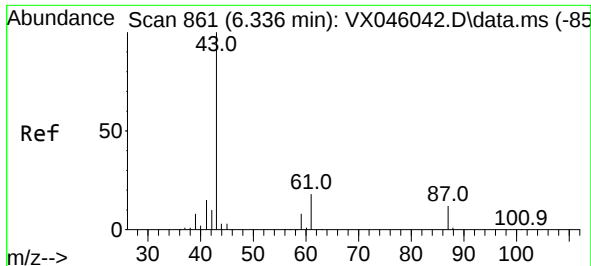
Tgt Ion:117 Resp: 7802
Ion Ratio Lower Upper
117 100
119 3.6 75.2 112.8#
121 0.0 24.2 36.4#



#41
Methacrylonitrile
Concen: 0.289 ug/l
RT: 5.074 min Scan# 654
Delta R.T. 0.158 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion: 41 Resp: 231
Ion Ratio Lower Upper
41 100
39 16.5 47.2 70.8#
67 0.0 50.7 76.1#
52 0.0 24.6 37.0#

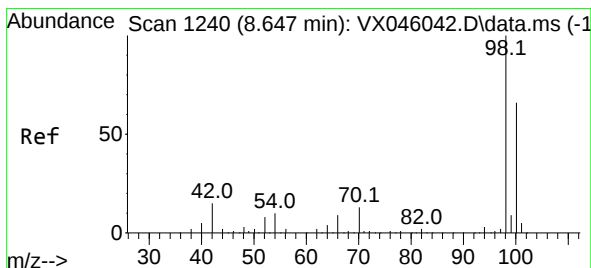
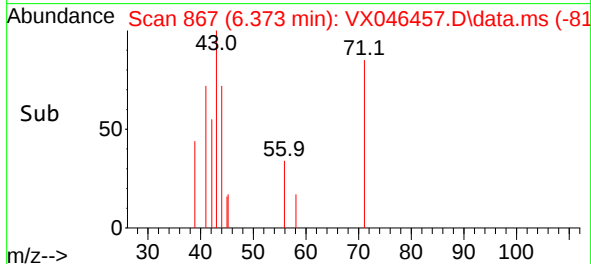
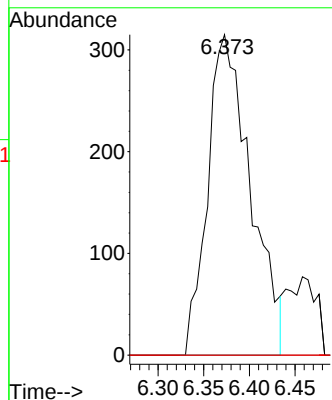
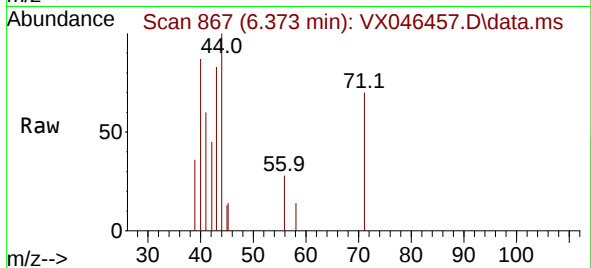




#43
Isopropyl Acetate
Concen: 0.441 ug/l
RT: 6.373 min Scan# 861
Delta R.T. 0.036 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

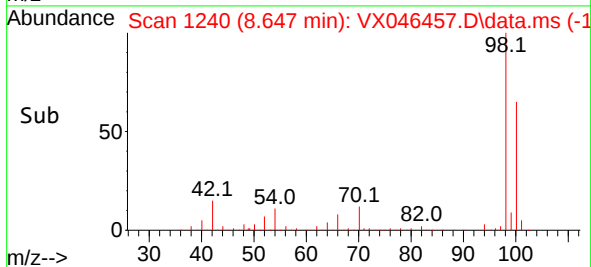
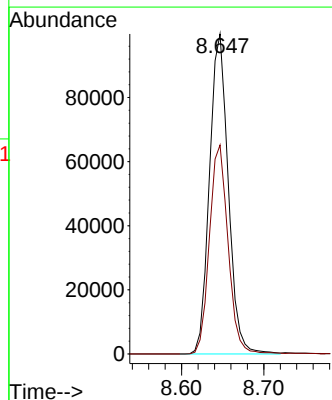
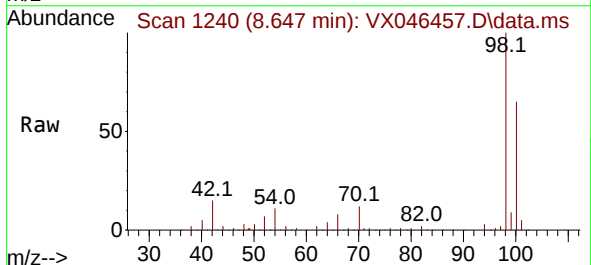
Instrument :
MSVOA_X
ClientSampleId :
446

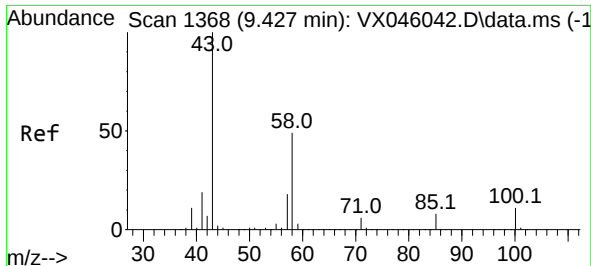
Tgt Ion: 43 Resp: 1028
Ion Ratio Lower Upper
43 100
61 0.0 14.3 21.5#
87 0.0 9.5 14.3#



#50
Toluene-d8
Concen: 49.674 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion: 98 Resp: 158233
Ion Ratio Lower Upper
98 100
100 64.9 53.5 80.3





#59

2-Hexanone

Concen: 0.275 ug/l

RT: 9.464 min Scan# 11

Delta R.T. 0.036 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

Instrument :

MSVOA_X

ClientSampleId :

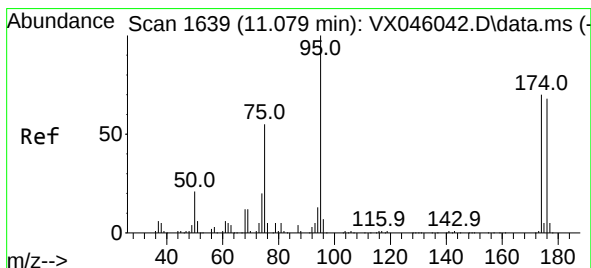
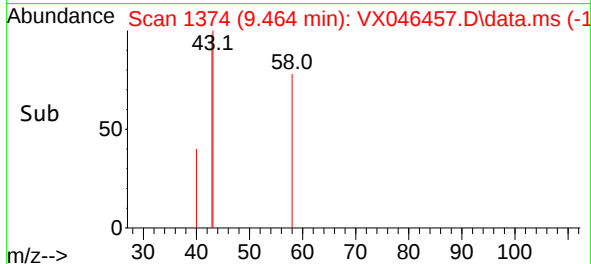
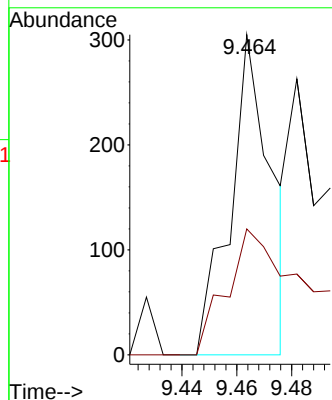
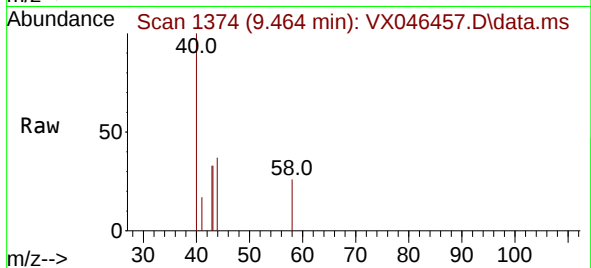
446

Tgt Ion: 43 Resp: 315

Ion Ratio Lower Upper

43 100

58 70.8 24.9 74.6



#62

4-Bromofluorobenzene

Concen: 50.377 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

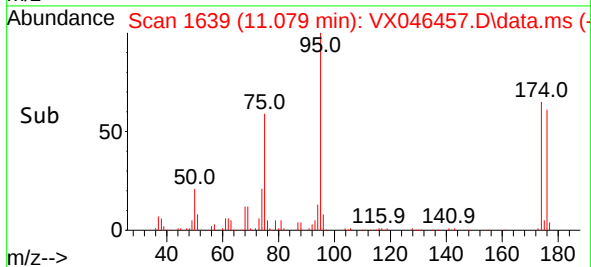
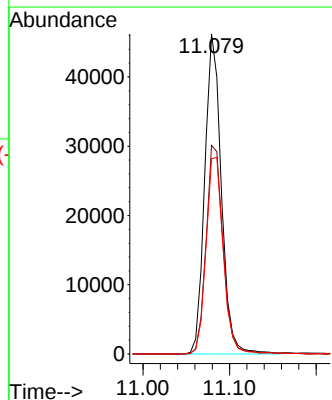
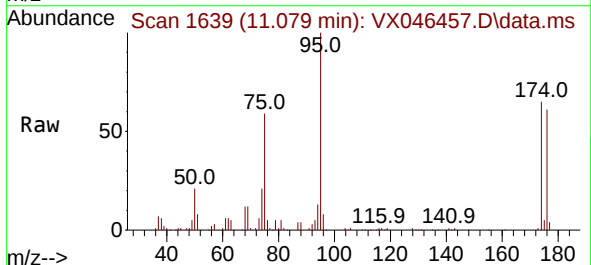
Tgt Ion: 95 Resp: 61555

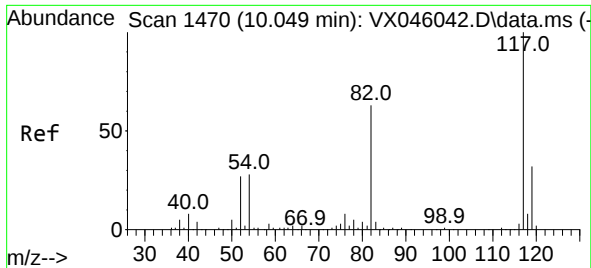
Ion Ratio Lower Upper

95 100

174 66.6 0.0 135.8

176 63.7 0.0 131.4

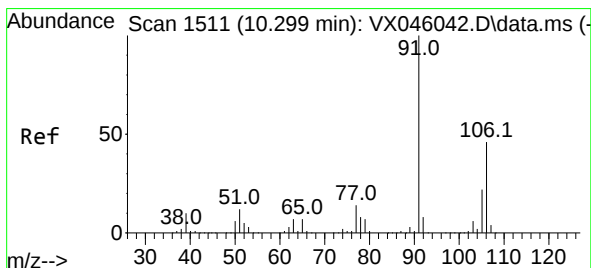
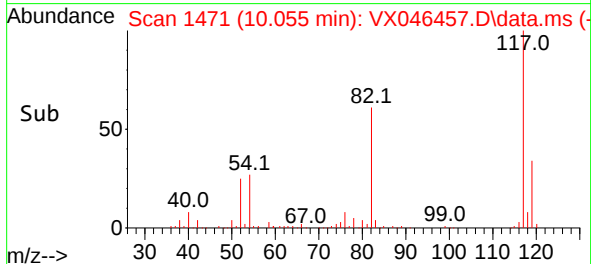
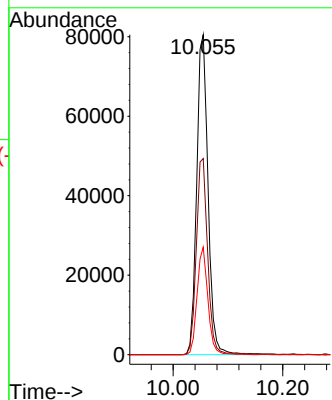
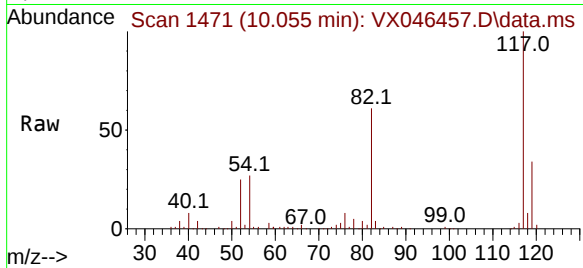




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

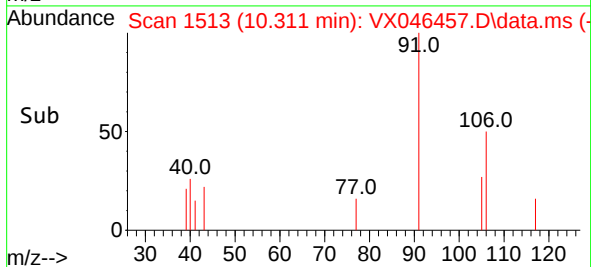
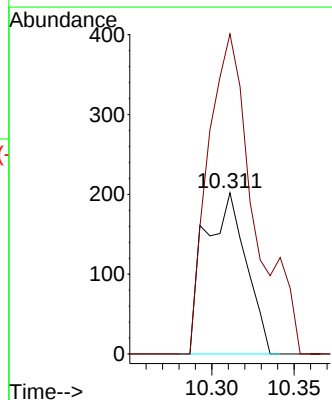
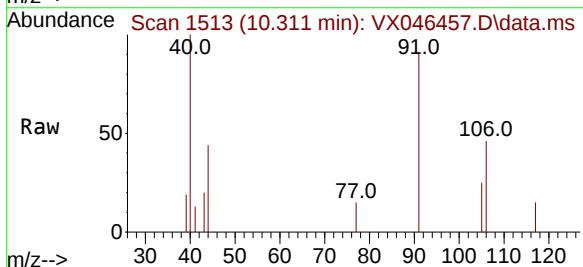
Instrument :
MSVOA_X
ClientSampleId :
446

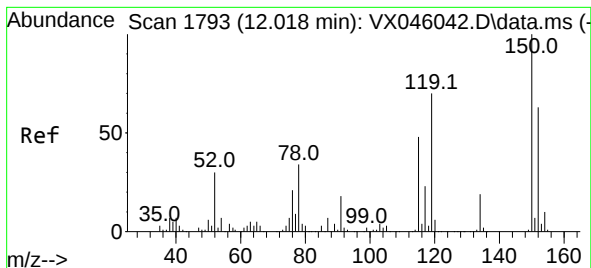
Tgt Ion:117 Resp: 116488
Ion Ratio Lower Upper
117 100
82 61.3 50.6 76.0
119 33.6 25.8 38.6



#68
m/p-Xylenes
Concen: 0.213 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.012 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion:106 Resp: 350
Ion Ratio Lower Upper
106 100
91 222.9 171.2 256.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

Instrument :

MSVOA_X

ClientSampleId :

446

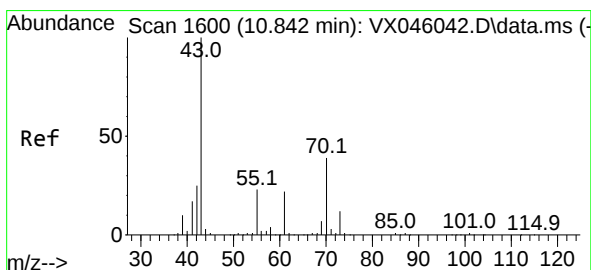
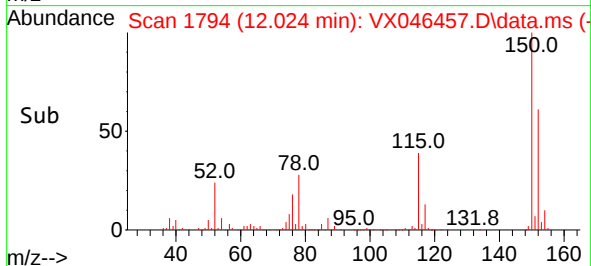
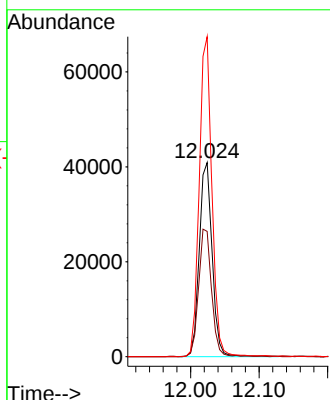
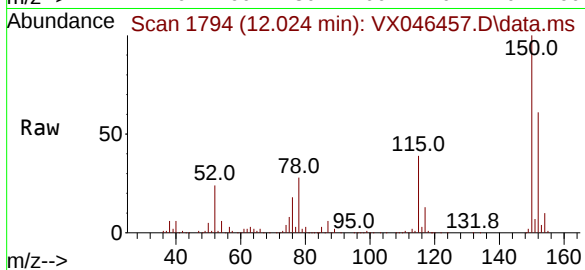
Tgt Ion:152 Resp: 53583

Ion Ratio Lower Upper

152 100

115 66.3 46.9 140.7

150 161.7 0.0 351.0



#74

N-ethyl acetate

Concen: 0.259 ug/l

RT: 10.866 min Scan# 1604

Delta R.T. 0.024 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

Tgt Ion: 43 Resp: 534

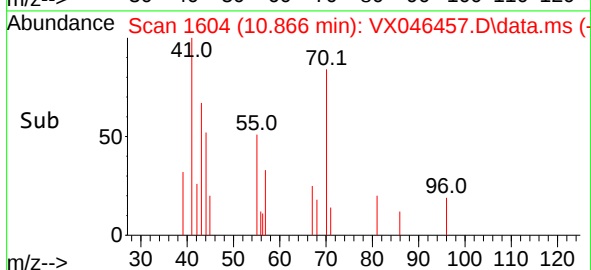
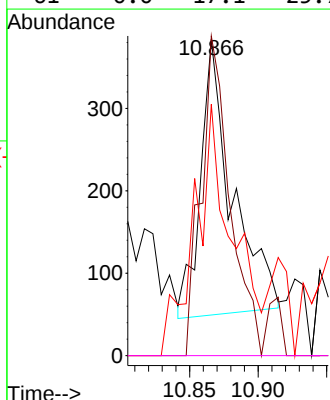
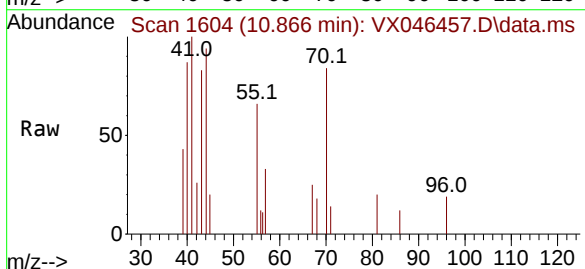
Ion Ratio Lower Upper

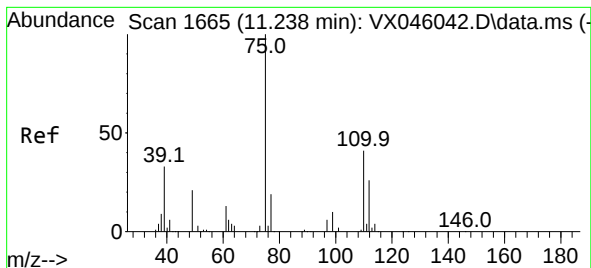
43 100

70 106.7 30.9 46.3#

55 108.6 18.7 28.1#

61 0.0 17.1 25.7#





#76

1,2,3-Trichloropropane

Concen: 27.078 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

Instrument :

MSVOA_X

ClientSampleId :

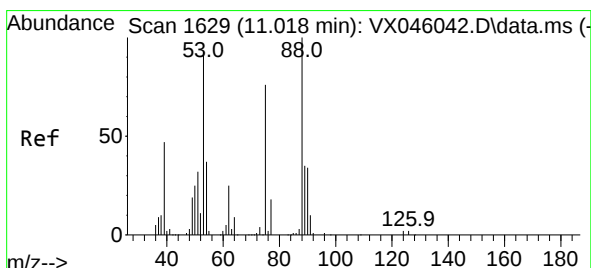
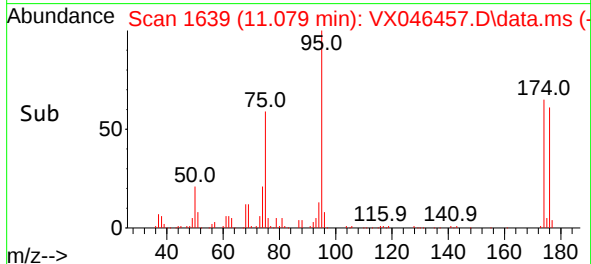
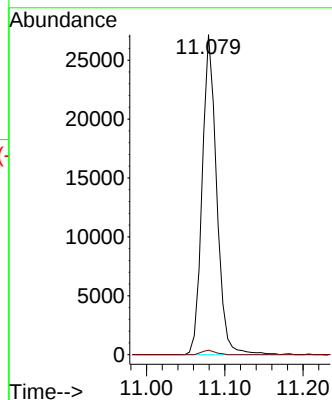
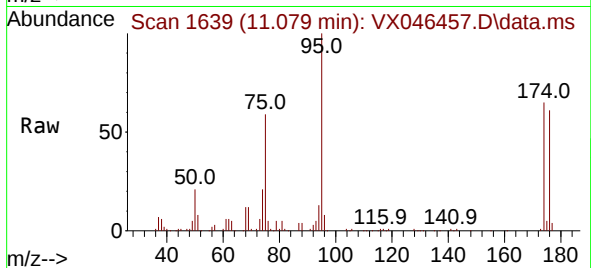
446

Tgt Ion: 75 Resp: 34925

Ion Ratio Lower Upper

75 100

77 1.3 20.5 61.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 88.159 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX046457.D

Acq: 02 Jun 2025 20:39

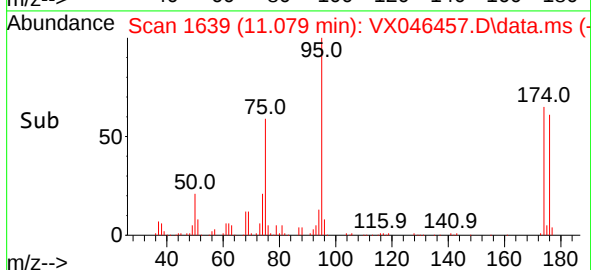
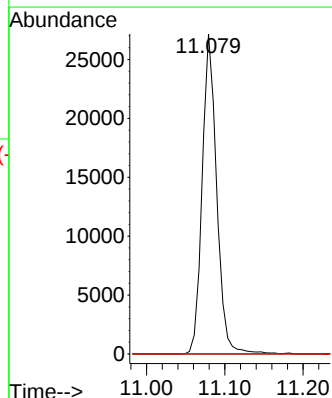
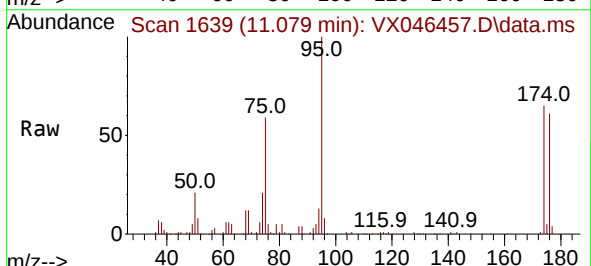
Tgt Ion: 75 Resp: 34925

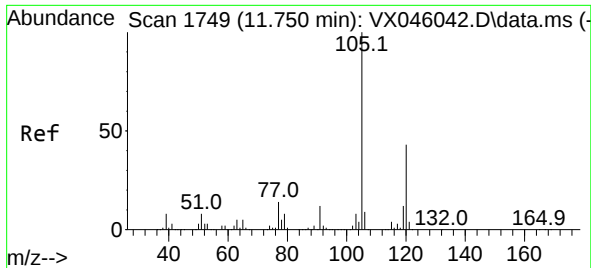
Ion Ratio Lower Upper

75 100

53 0.0 100.5 150.7#

89 0.0 37.0 55.6#

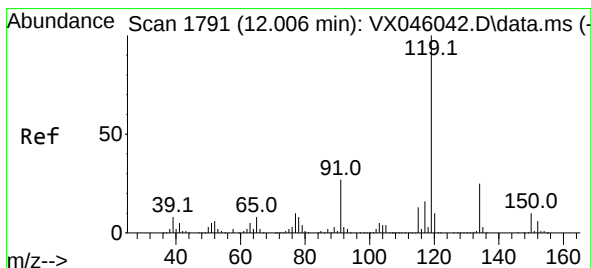
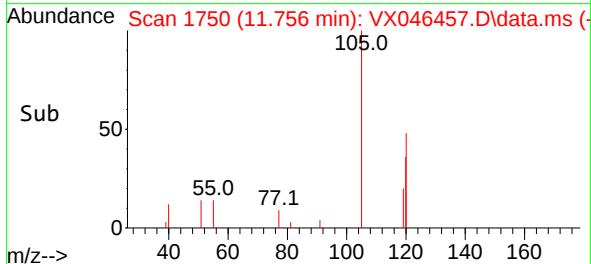
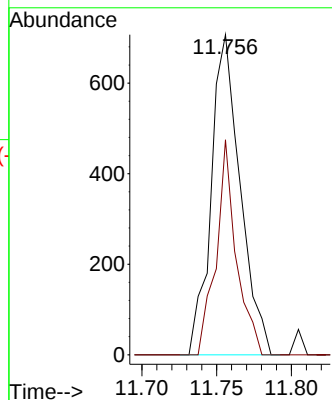
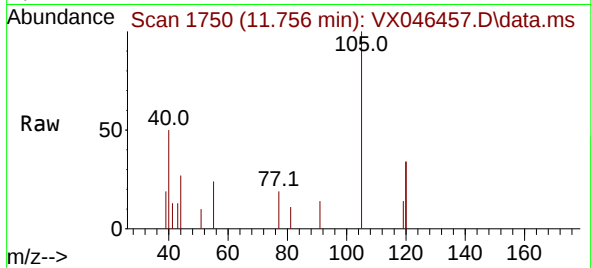




#84
1,2,4-Trimethylbenzene
Concen: 0.271 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

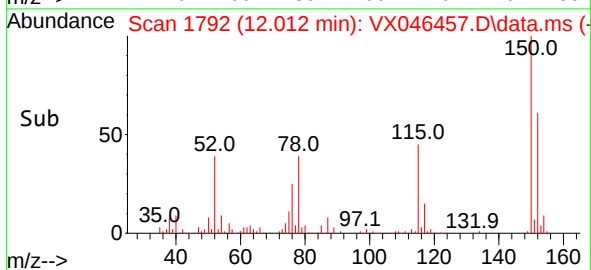
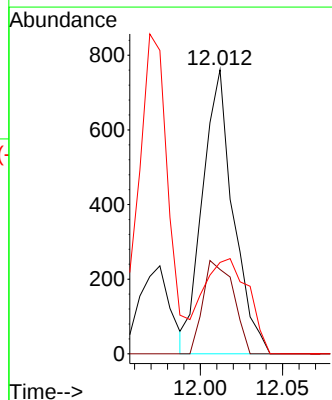
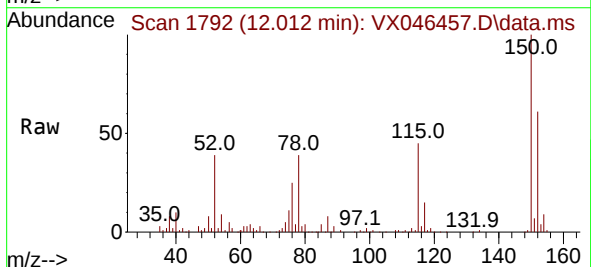
Instrument :
MSVOA_X
ClientSampleId :
446

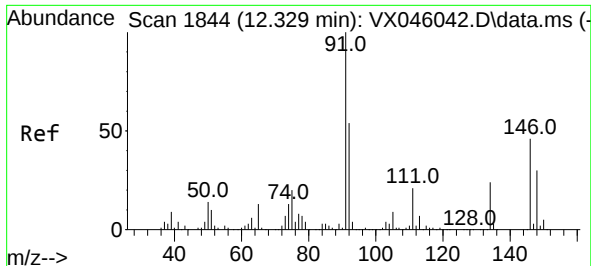
Tgt Ion:105 Resp: 957
Ion Ratio Lower Upper
105 100
120 46.3 21.2 63.6



#86
p-Isopropyltoluene
Concen: 0.277 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion:119 Resp: 986
Ion Ratio Lower Upper
119 100
134 32.4 12.5 37.5
91 48.5 13.8 41.4#

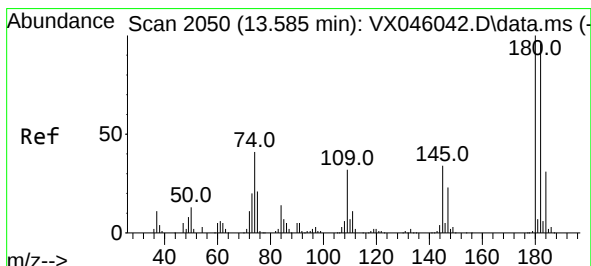
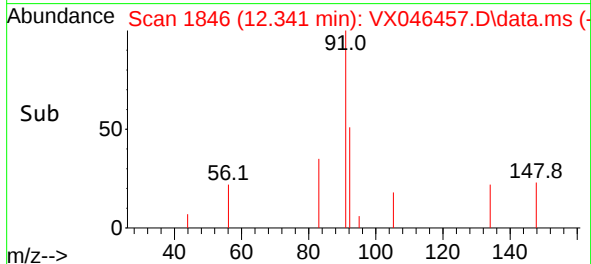
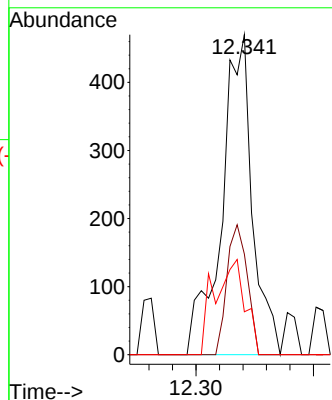
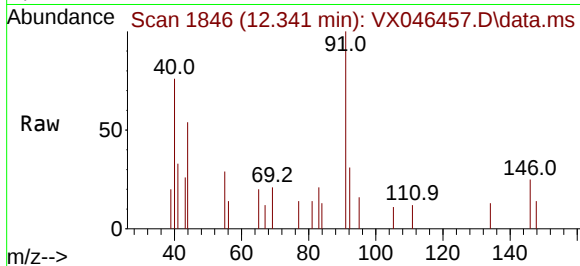




#89
n-Butylbenzene
Concen: 0.273 ug/l
RT: 12.341 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

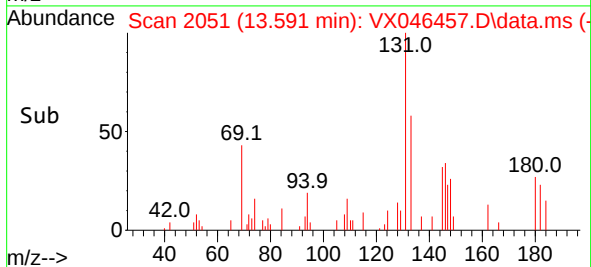
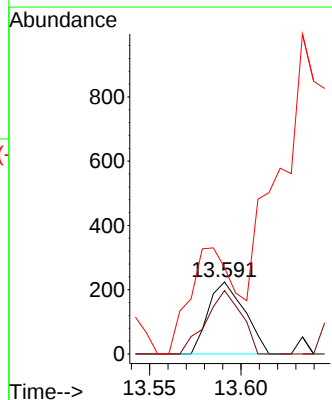
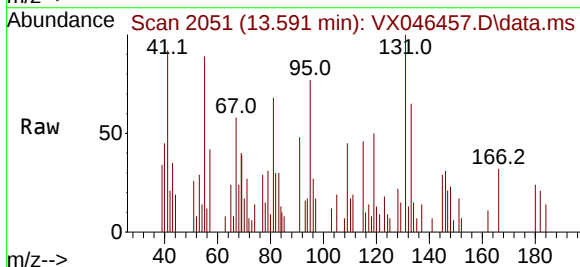
Instrument :
MSVOA_X
ClientSampleId :
446

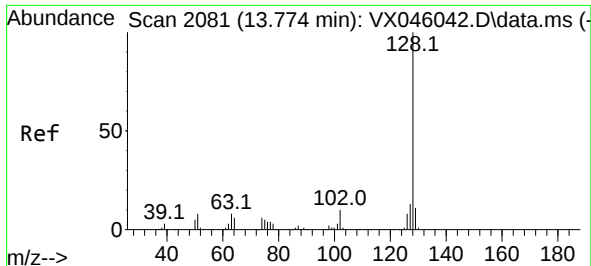
Tgt Ion: 91 Resp: 852
Ion Ratio Lower Upper
91 100
92 26.9 26.9 80.7#
134 29.6 11.8 35.3



#93
1,2,4-Trichlorobenzene
Concen: 0.303 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion:180 Resp: 309
Ion Ratio Lower Upper
180 100
182 85.8 47.9 143.8
145 188.0 17.1 51.2#

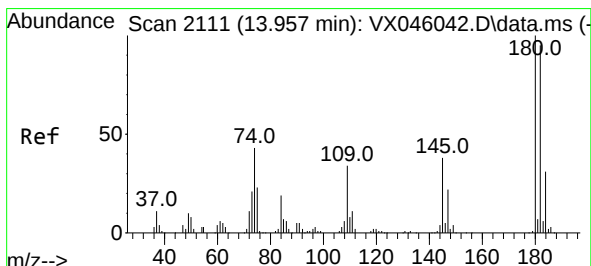
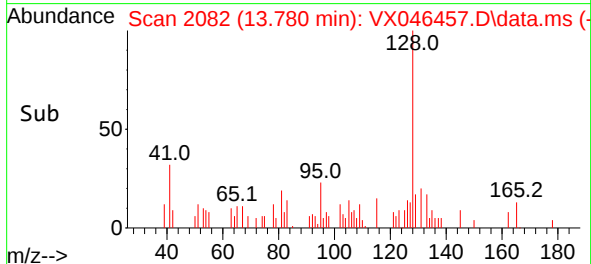
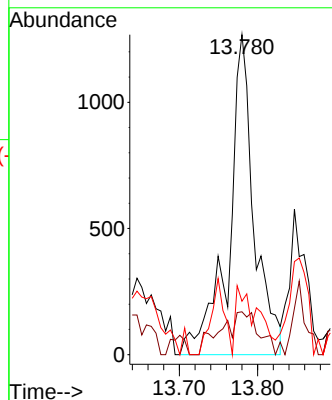
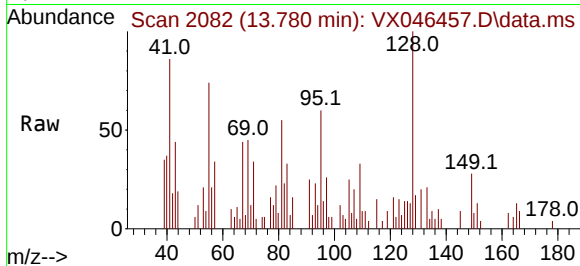




#95
Naphthalene
Concen: 0.758 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Instrument :
MSVOA_X
ClientSampleId :
446

Tgt Ion:128 Resp: 2834
Ion Ratio Lower Upper
128 100
127 17.4 10.4 15.6#
129 18.8 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.613 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.012 min
Lab File: VX046457.D
Acq: 02 Jun 2025 20:39

Tgt Ion:180 Resp: 644
Ion Ratio Lower Upper
180 100
182 83.7 47.8 143.3
145 207.6 18.1 54.3#

