

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050625\
 Data File : VX046059.D
 Acq On : 06 May 2025 13:25
 Operator : JC/MD
 Sample : PB167852TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB167852TB

Quant Time: May 07 01:46:18 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

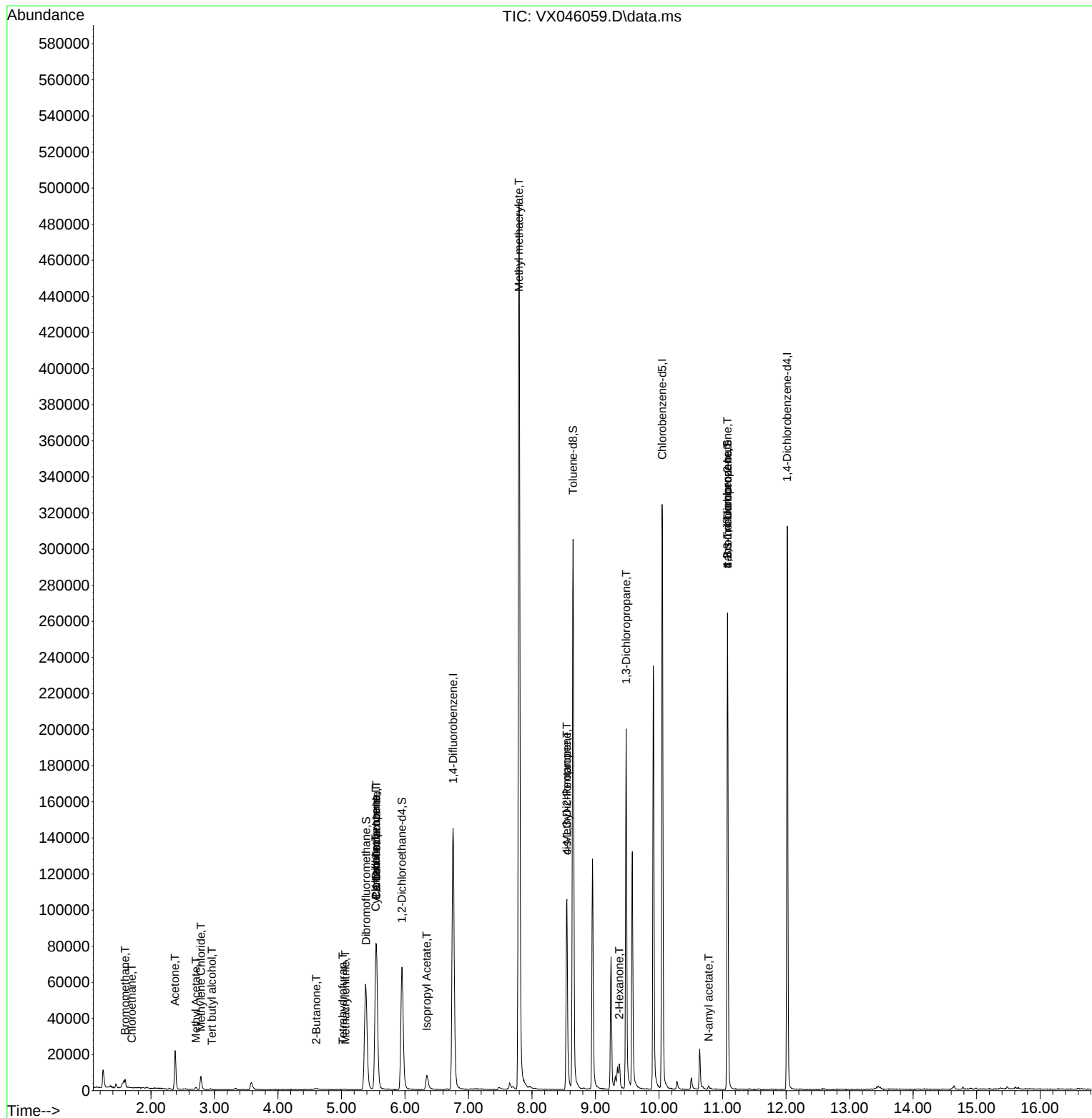
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	69899	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	140840	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	132970	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	56151	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	70146	53.828	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 107.660%		
35) Dibromofluoromethane	5.385	113	50822	50.111	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.220%		
50) Toluene-d8	8.647	98	174345	49.667	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 99.340%		
62) 4-Bromofluorobenzene	11.079	95	68151	50.614	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 101.220%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.593	94	116	0.259	ug/l #	4
6) Chloroethane	1.697	64	139	0.270	ug/l #	44
11) Tert butyl alcohol	2.959	59	133	0.727	ug/l #	72
16) Acetone	2.380	43	23354	44.697	ug/l	98
18) Methyl Acetate	2.709	43	1626	1.341	ug/l #	88
20) Methylene Chloride	2.788	84	3448	3.444	ug/l	97
25) 2-Butanone	4.605	43	1961	2.585	ug/l #	90
29) Tetrahydrofuran	5.019	42	267	0.562	ug/l #	50
31) Cyclohexane	5.538	56	2204	1.419	ug/l #	47
36) 1,1-Dichloropropene	5.544	75	7419	5.444	ug/l #	50
38) Carbon Tetrachloride	5.550	117	8579	5.603	ug/l #	15
41) Methacrylonitrile	5.062	41	184	0.209	ug/l #	46
43) Isopropyl Acetate	6.342	43	12650	4.925	ug/l	94
48) Methyl methacrylate	7.793	41	49881	38.028	ug/l #	49
51) 4-Methyl-2-Pentanone	8.549	43	42131	24.712	ug/l #	51
54) cis-1,3-Dichloropropene	8.549	75	15979	10.550	ug/l #	63
57) 1,3-Dichloropropane	9.482	76	1713	0.988	ug/l #	42
59) 2-Hexanone	9.372	43	13200	10.465	ug/l #	28
74) N-amyl acetate	10.781	43	1659	0.768	ug/l #	48
76) 1,2,3-Trichloropropane	11.079	75	40328	29.838	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	40328	97.142	ug/l #	1

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

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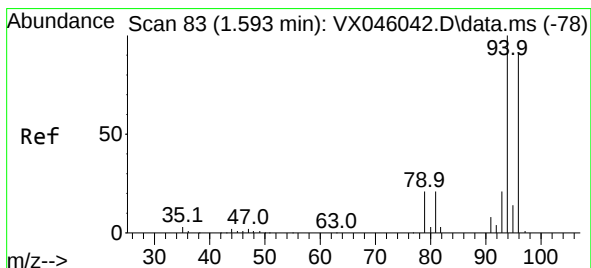
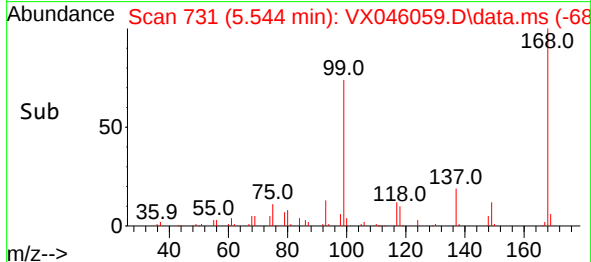
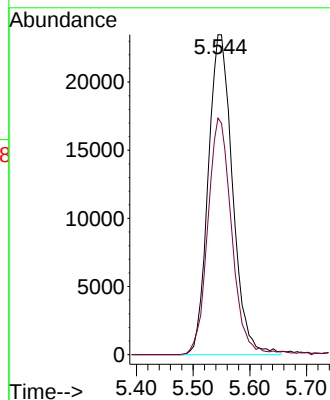
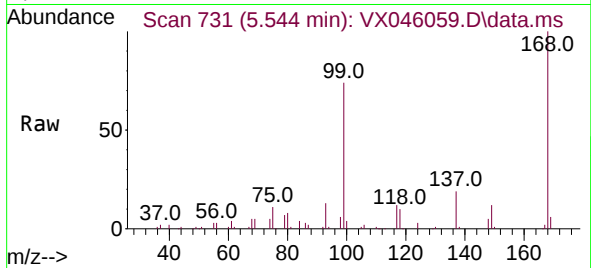




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

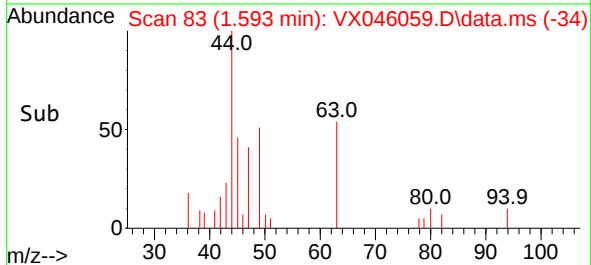
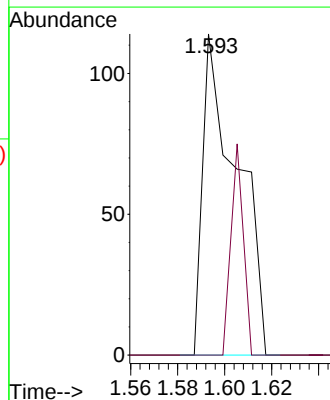
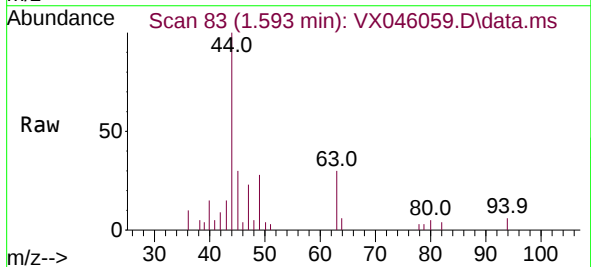
Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

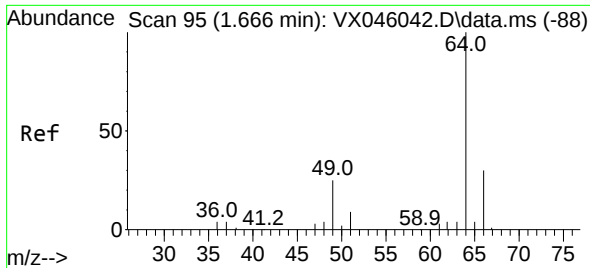
Tgt Ion:168 Resp: 69899
Ion Ratio Lower Upper
168 100
99 73.9 54.9 82.3



#5
Bromomethane
Concen: 0.259 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion: 94 Resp: 116
Ion Ratio Lower Upper
94 100
96 0.0 72.8 109.2#

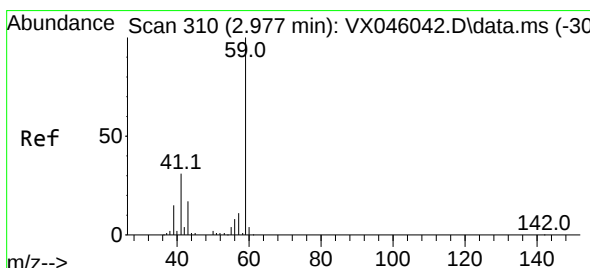
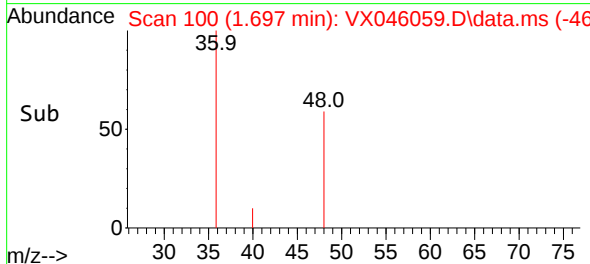
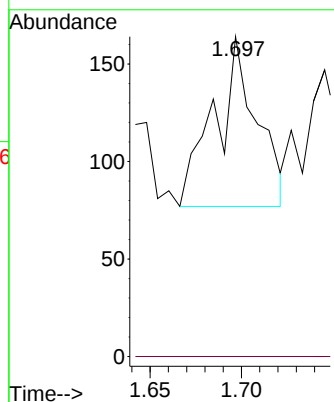
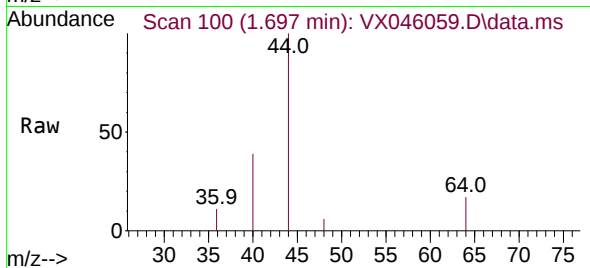




#6
Chloroethane
Concen: 0.270 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.030 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

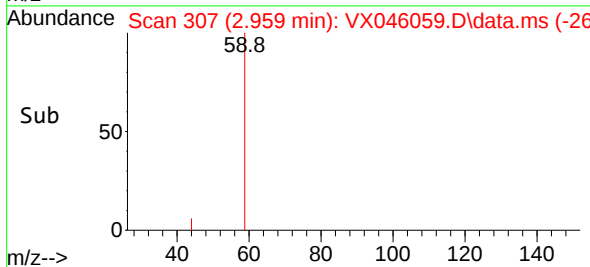
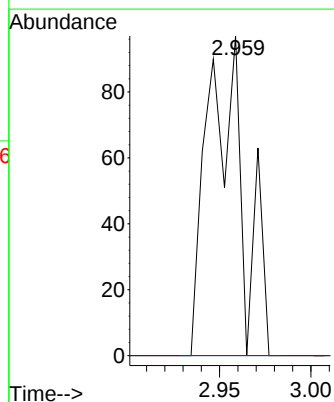
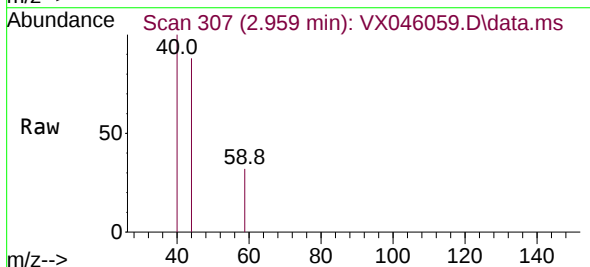
Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

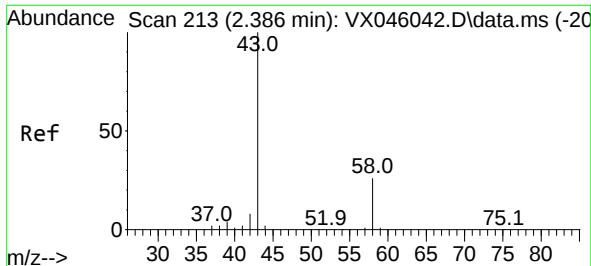
Tgt Ion: 64 Resp: 139
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#



#11
Tert butyl alcohol
Concen: 0.727 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.018 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion: 59 Resp: 133
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

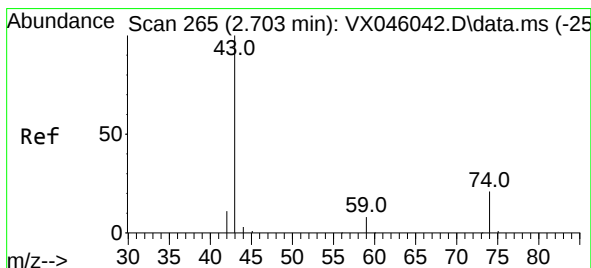
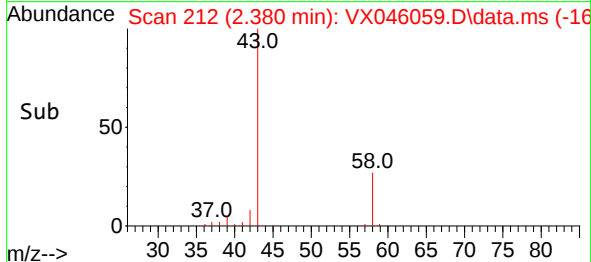
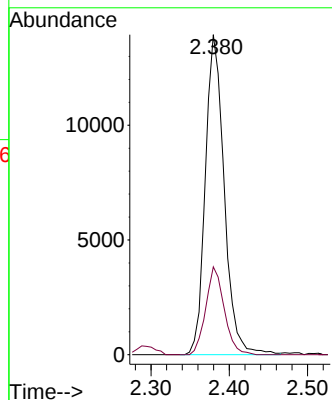
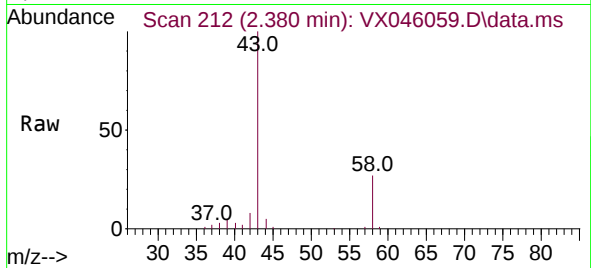




#16
Acetone
Concen: 44.697 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

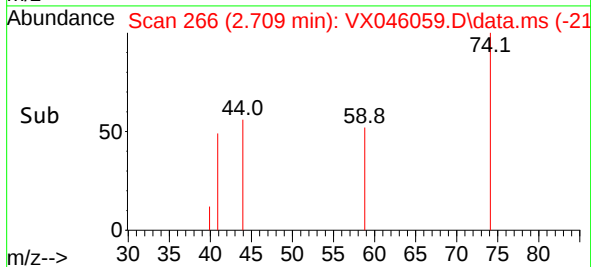
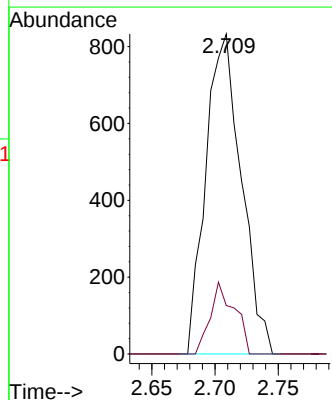
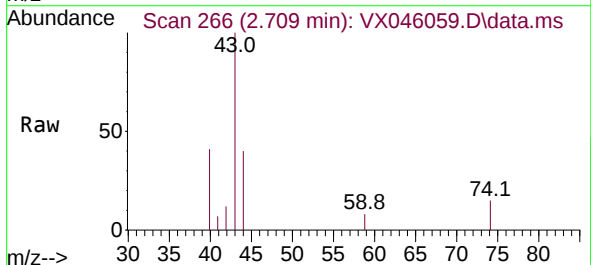
Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

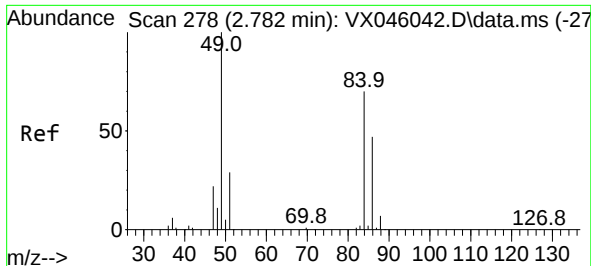
Tgt Ion: 43 Resp: 23354
Ion Ratio Lower Upper
43 100
58 27.4 21.2 31.8



#18
Methyl Acetate
Concen: 1.341 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion: 43 Resp: 1626
Ion Ratio Lower Upper
43 100
74 15.3 16.7 25.1#

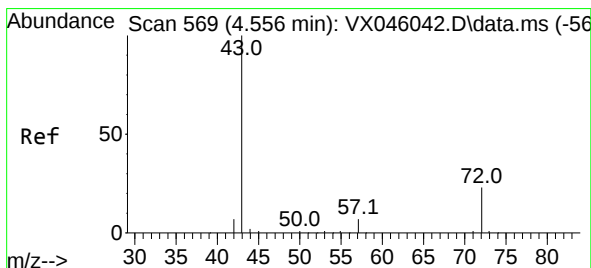
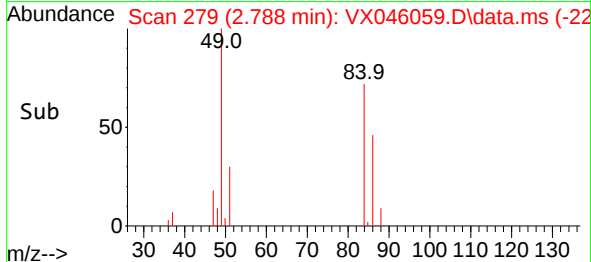
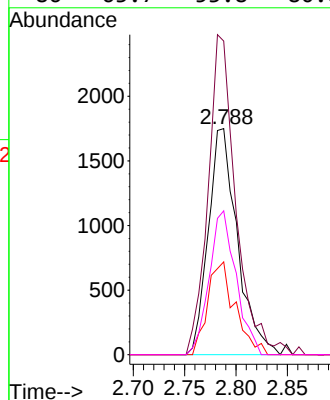
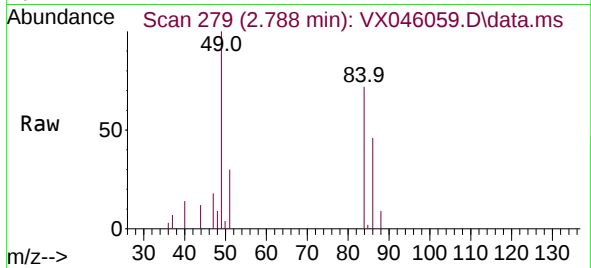




#20
Methylene Chloride
Concen: 3.444 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

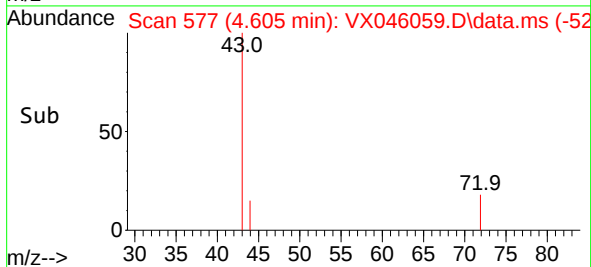
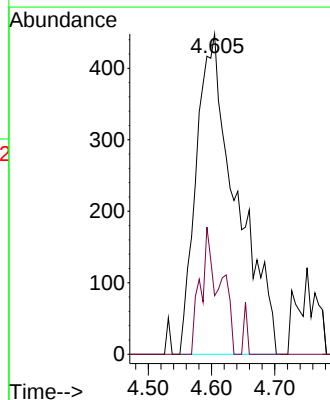
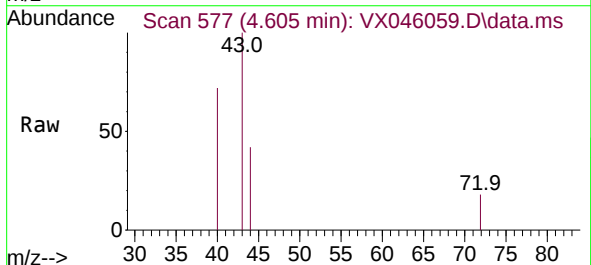
Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

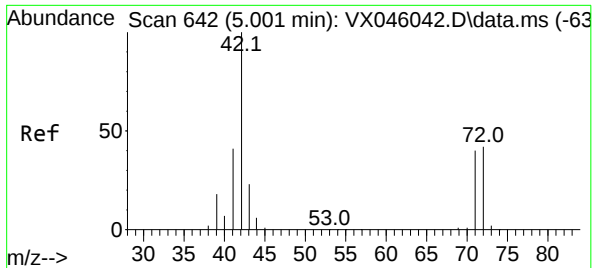
Tgt Ion: 84 Resp: 3448
Ion Ratio Lower Upper
84 100
49 138.7 113.9 170.9
51 41.0 33.5 50.3
86 63.7 53.8 80.8



#25
2-Butanone
Concen: 2.585 ug/l
RT: 4.605 min Scan# 577
Delta R.T. 0.049 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion: 43 Resp: 1961
Ion Ratio Lower Upper
43 100
72 18.3 18.4 27.6#





#29

Tetrahydrofuran

Concen: 0.562 ug/l

RT: 5.019 min Scan# 642

Delta R.T. 0.018 min

Lab File: VX046059.D

Acq: 06 May 2025 13:25

Instrument :

MSVOA_X

ClientSampleId :

PB167852TB

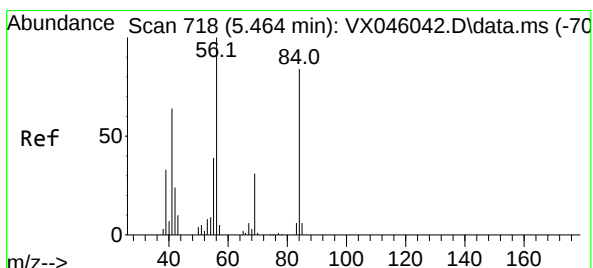
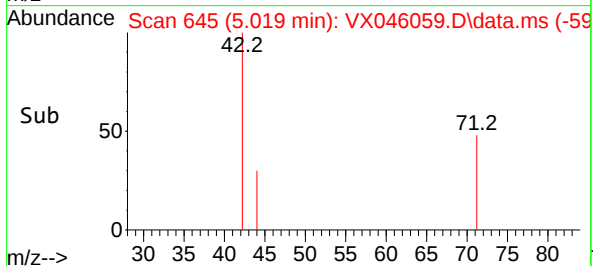
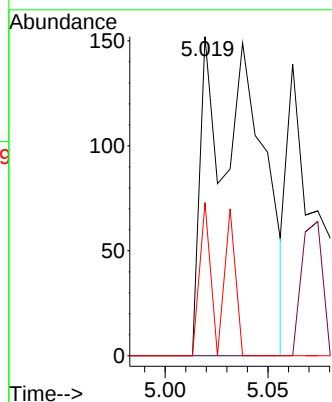
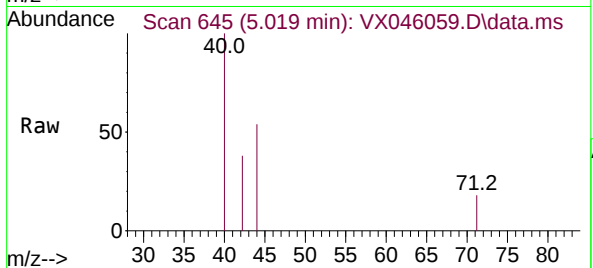
Tgt Ion: 42 Resp: 267

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 19.5 31.4 47.2#



#31

Cyclohexane

Concen: 1.419 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX046059.D

Acq: 06 May 2025 13:25

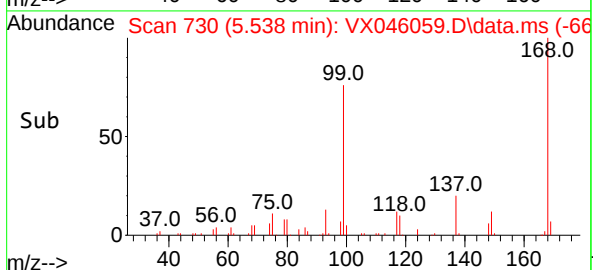
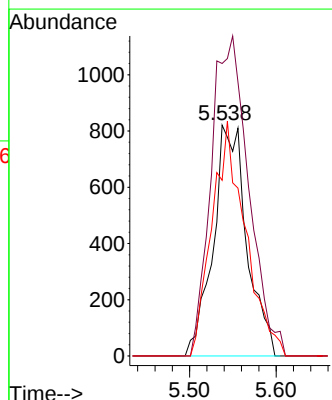
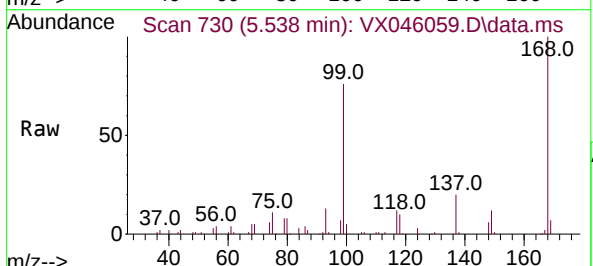
Tgt Ion: 56 Resp: 2204

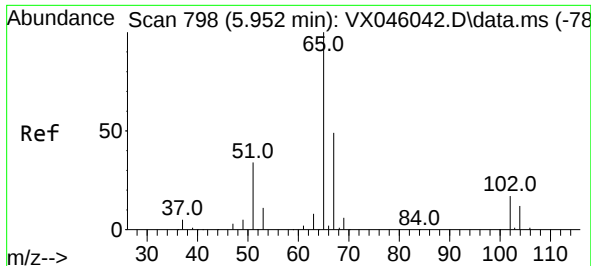
Ion Ratio Lower Upper

56 100

69 126.7 24.4 36.6#

84 76.1 66.9 100.3





#33

1,2-Dichloroethane-d4

Concen: 53.828 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046059.D

Acq: 06 May 2025 13:25

Instrument :

MSVOA_X

ClientSampleId :

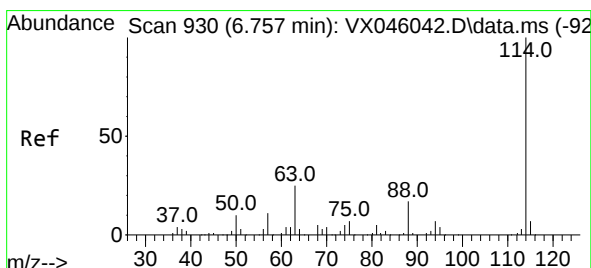
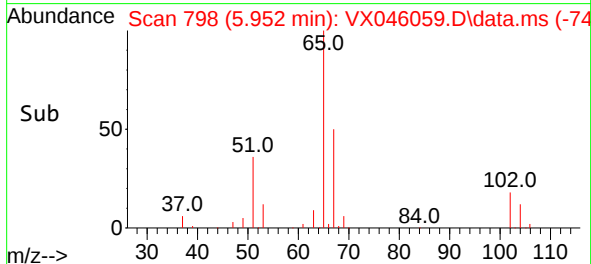
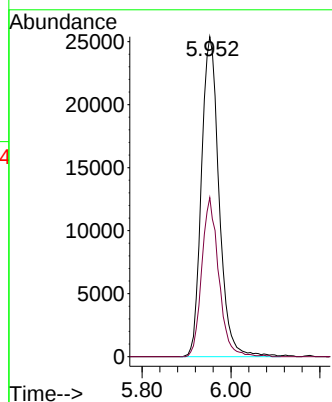
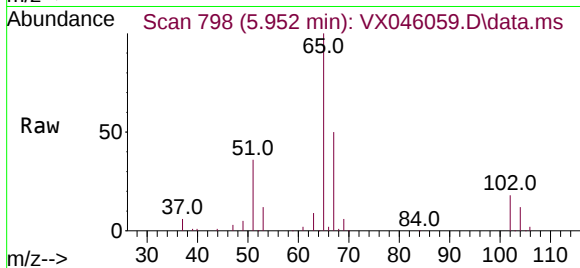
PB167852TB

Tgt Ion: 65 Resp: 70146

Ion Ratio Lower Upper

65 100

67 47.8 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: VX046059.D

Acq: 06 May 2025 13:25

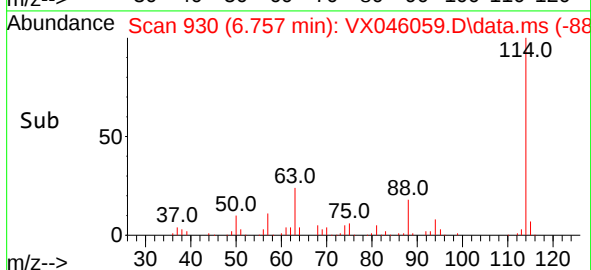
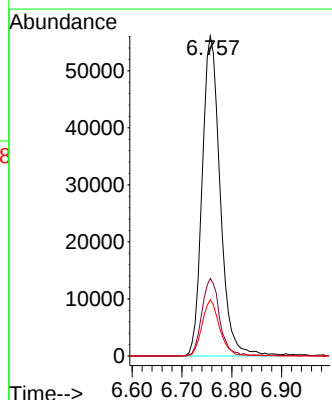
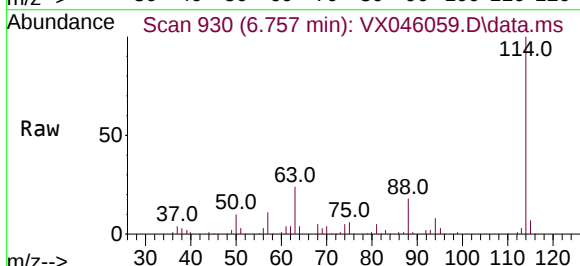
Tgt Ion: 114 Resp: 140840

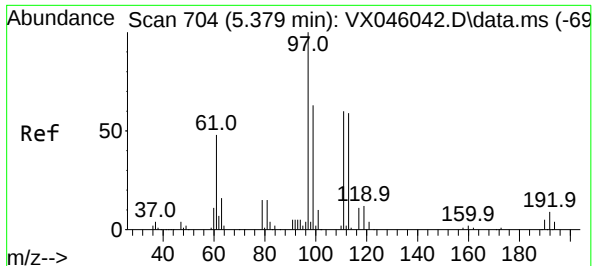
Ion Ratio Lower Upper

114 100

63 24.2 0.0 49.2

88 17.6 0.0 33.6

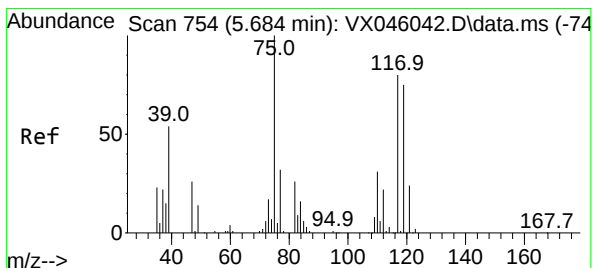
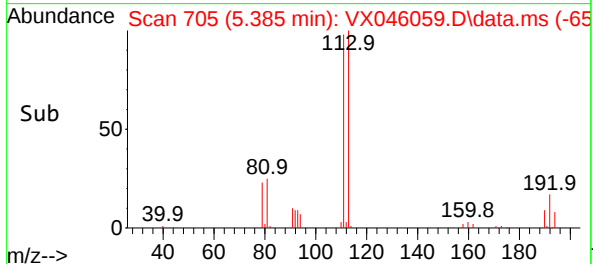
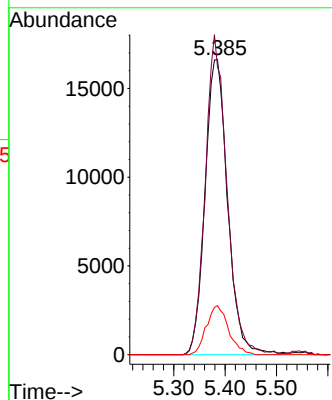
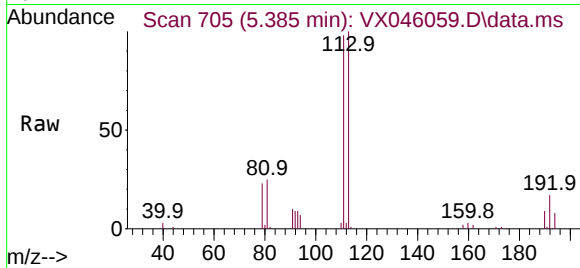




#35
Dibromofluoromethane
Concen: 50.111 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

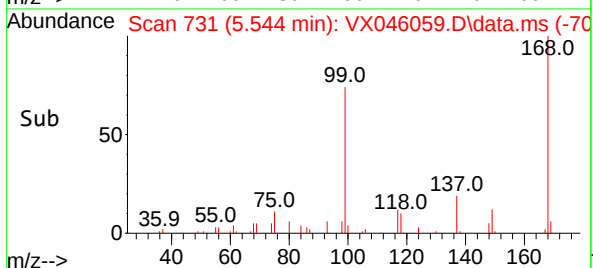
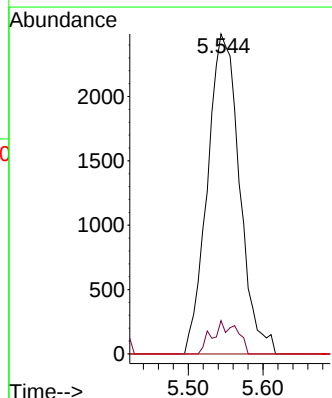
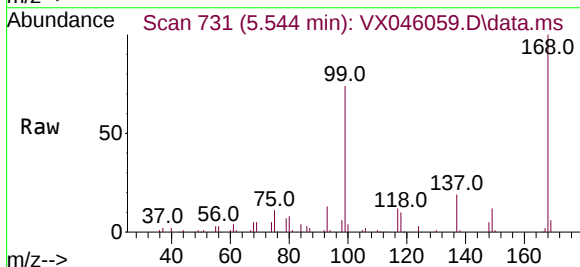
Instrument :
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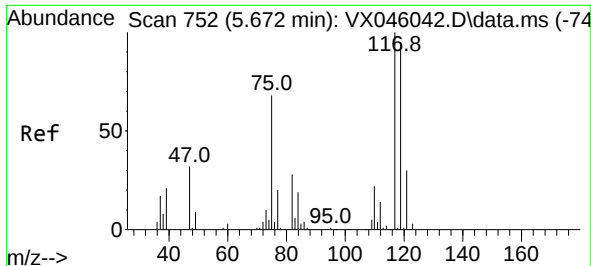
Tgt Ion:113 Resp: 50822
Ion Ratio Lower Upper
113 100
111 103.3 83.1 124.7
192 16.2 13.3 19.9



#36
1,1-Dichloropropene
Concen: 5.444 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

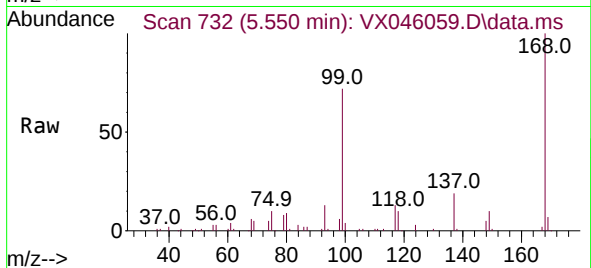
Tgt Ion: 75 Resp: 7419
Ion Ratio Lower Upper
75 100
110 7.9 16.3 48.9#
77 0.0 24.3 36.5#



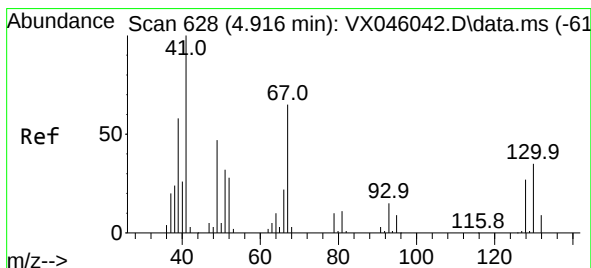
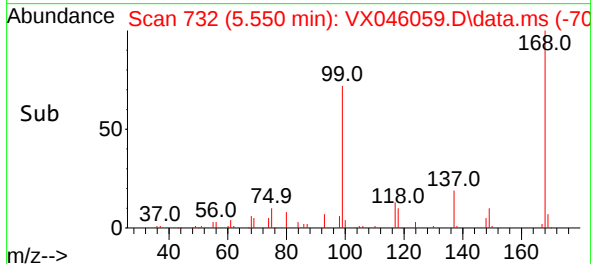
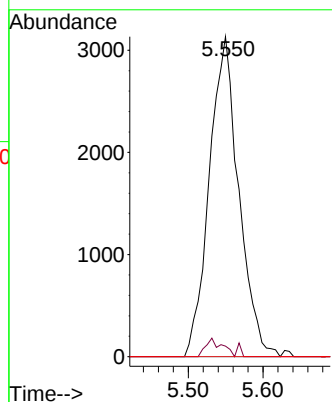


#38
Carbon Tetrachloride
Concen: 5.603 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

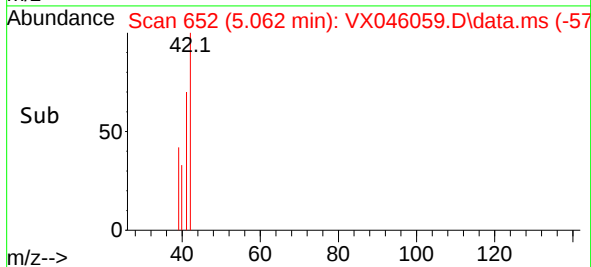
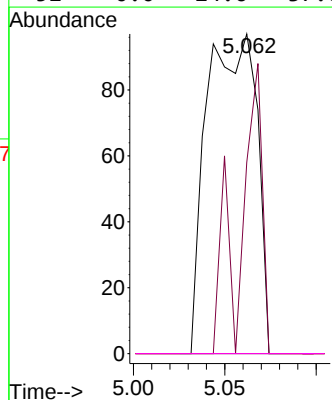
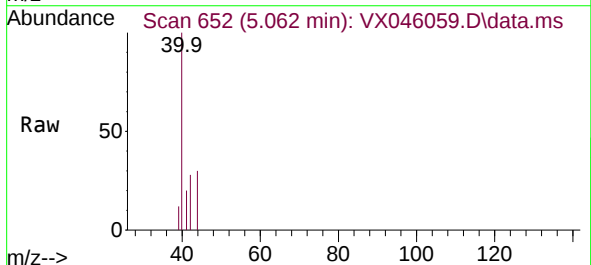


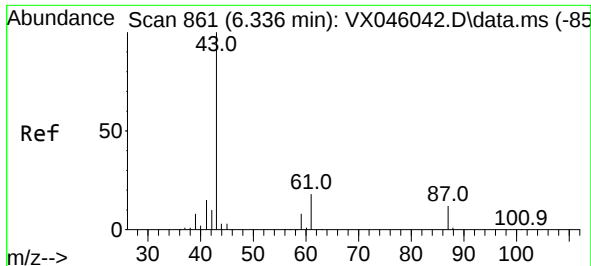
Tgt Ion:117 Resp: 8579
Ion Ratio Lower Upper
117 100
119 3.3 75.2 112.8#
121 0.0 24.2 36.4#



#41
Methacrylonitrile
Concen: 0.209 ug/l
RT: 5.062 min Scan# 652
Delta R.T. 0.146 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion: 41 Resp: 184
Ion Ratio Lower Upper
41 100
39 40.8 47.2 70.8#
67 0.0 50.7 76.1#
52 0.0 24.6 37.0#

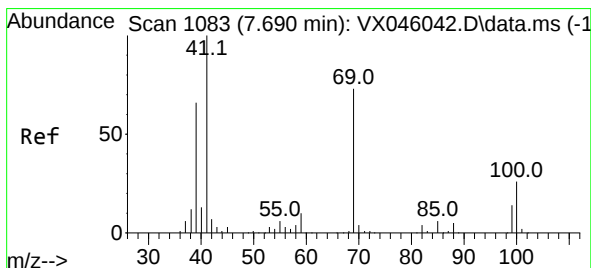
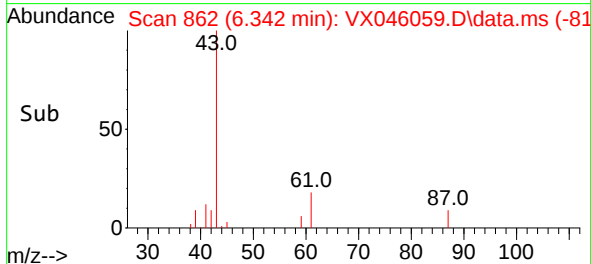
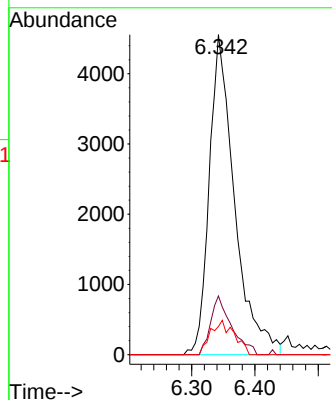
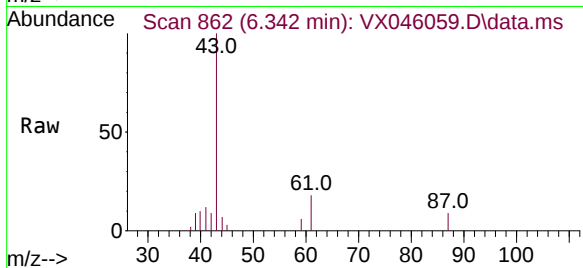




#43
Isopropyl Acetate
Concen: 4.925 ug/l
RT: 6.342 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

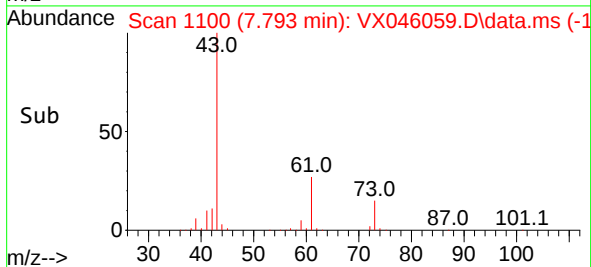
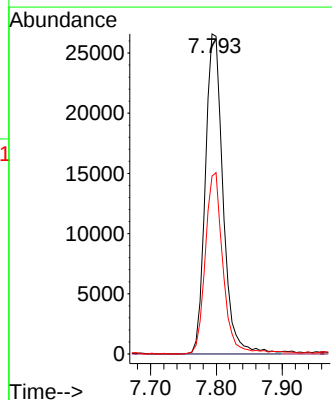
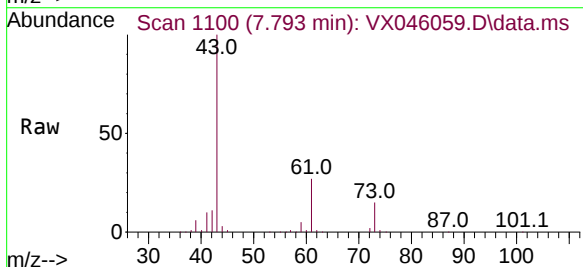
Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

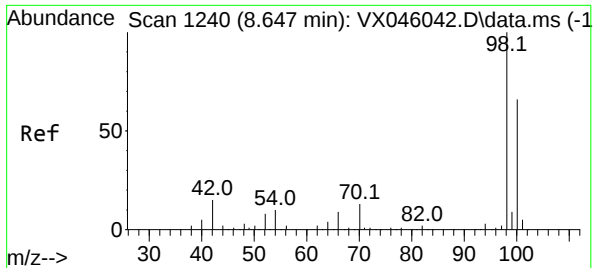
Tgt Ion: 43 Resp: 12650
Ion Ratio Lower Upper
43 100
61 15.1 14.3 21.5
87 9.9 9.5 14.3



#48
Methyl methacrylate
Concen: 38.028 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion: 41 Resp: 49881
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 56.6 51.7 77.5

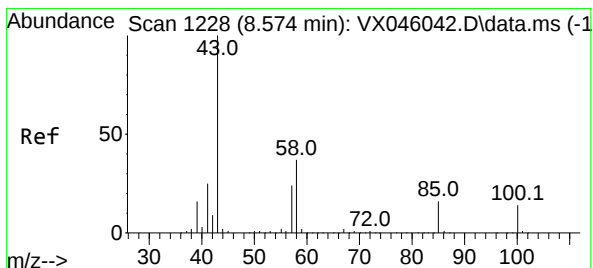
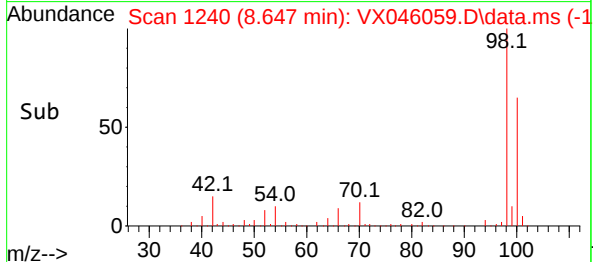
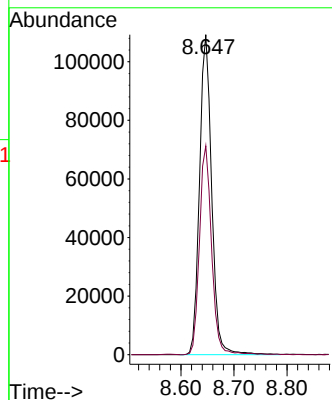
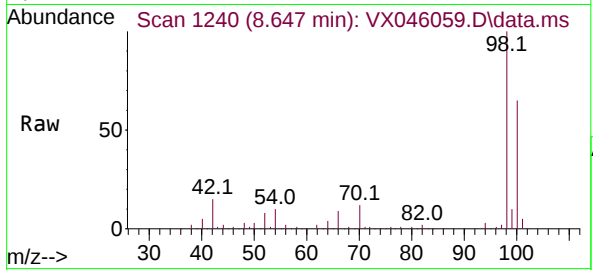




#50
Toluene-d8
Concen: 49.667 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

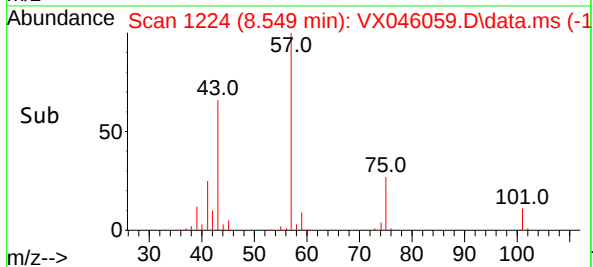
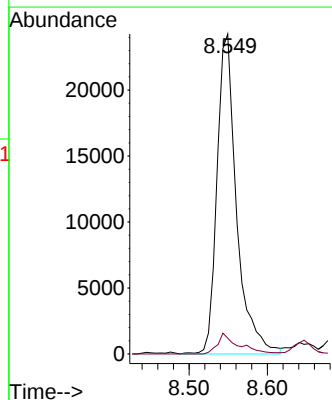
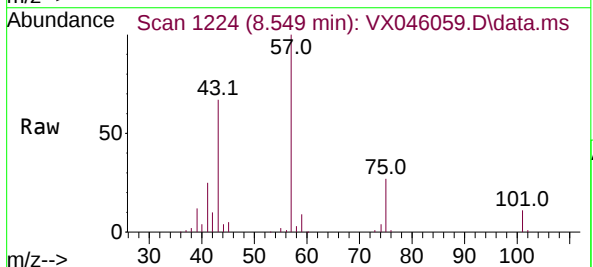
Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

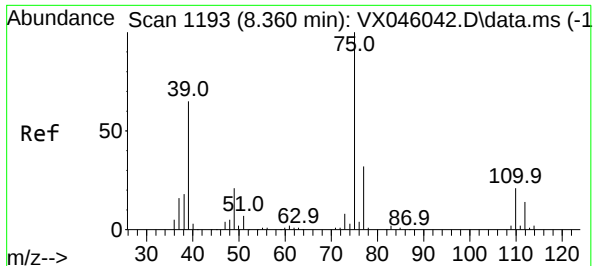
Tgt Ion: 98 Resp: 174345
Ion Ratio Lower Upper
98 100
100 65.1 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 24.712 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion: 43 Resp: 42131
Ion Ratio Lower Upper
43 100
58 7.0 28.9 43.3#

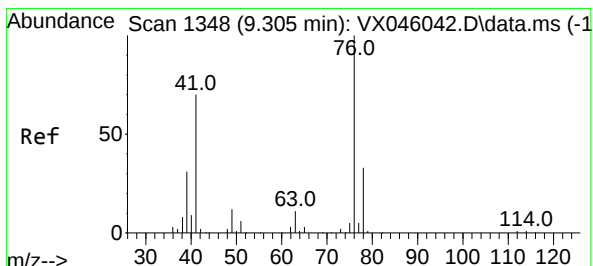
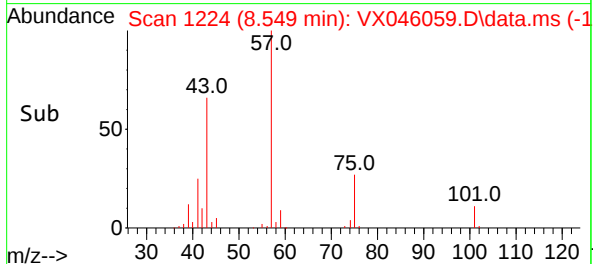
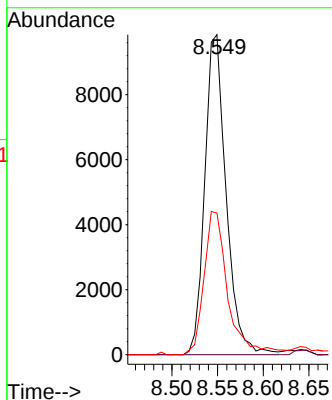
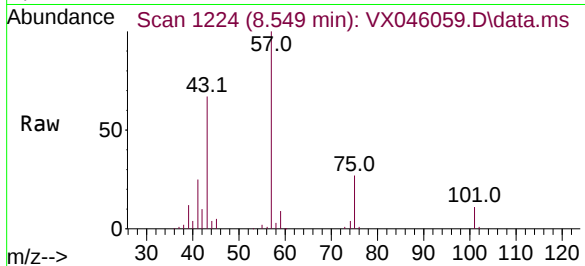




#54
 cis-1,3-Dichloropropene
 Concen: 10.550 ug/l
 RT: 8.549 min Scan# 1193
 Delta R.T. 0.189 min
 Lab File: VX046059.D
 Acq: 06 May 2025 13:25

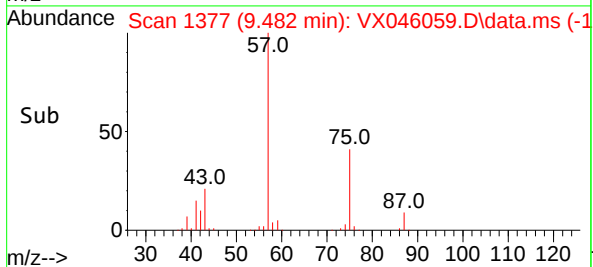
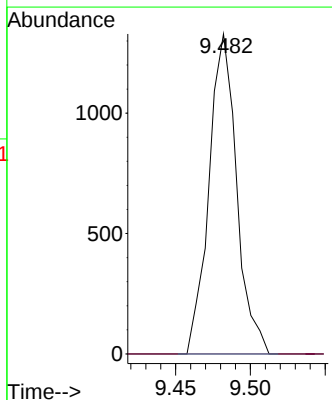
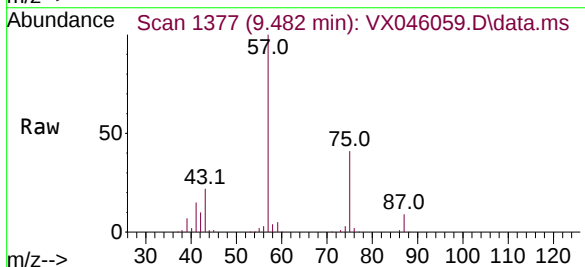
Instrument :
 MSVOA_X
 ClientSampleId :
 PB167852TB

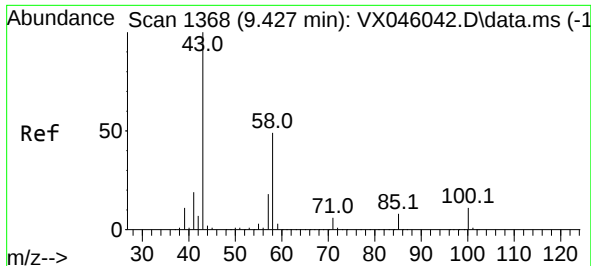
Tgt Ion: 75 Resp: 15979
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 44.3 52.2 78.4#



#57
 1,3-Dichloropropane
 Concen: 0.988 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX046059.D
 Acq: 06 May 2025 13:25

Tgt Ion: 76 Resp: 1713
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#

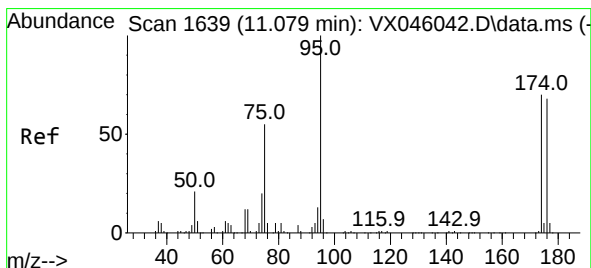
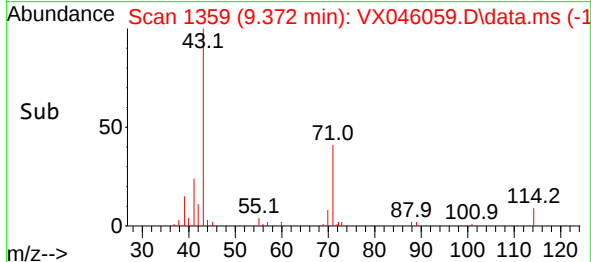
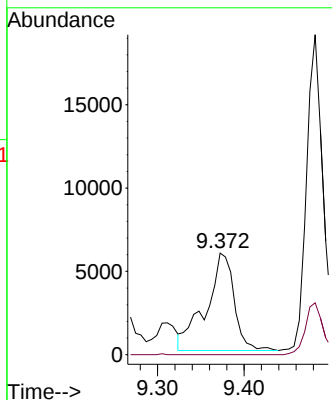
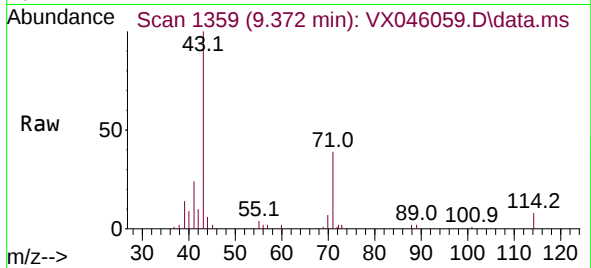




#59
2-Hexanone
Concen: 10.465 ug/l
RT: 9.372 min Scan# 1359
Delta R.T. -0.055 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

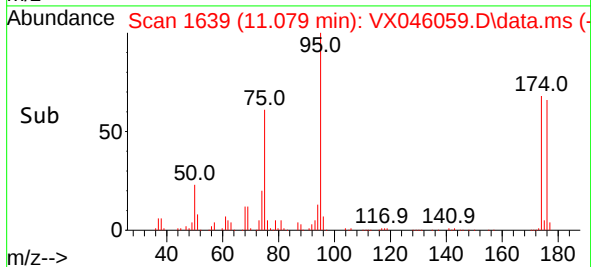
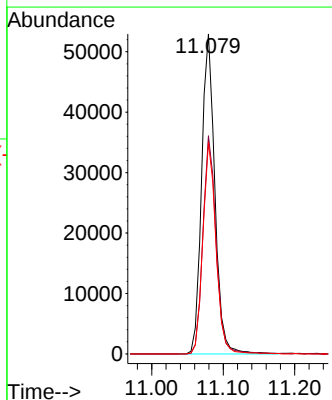
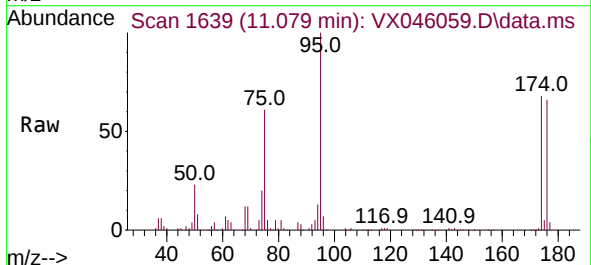
Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

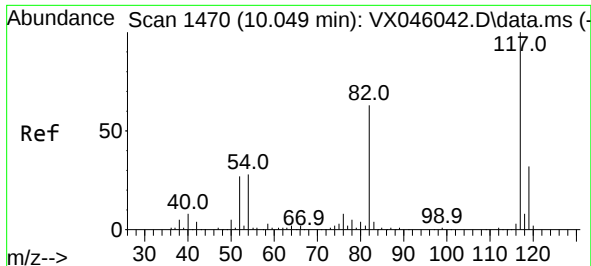
Tgt Ion: 43 Resp: 13200
Ion Ratio Lower Upper
43 100
58 0.0 24.9 74.6#



#62
4-Bromofluorobenzene
Concen: 50.614 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion: 95 Resp: 68151
Ion Ratio Lower Upper
95 100
174 67.8 0.0 135.8
176 65.6 0.0 131.4

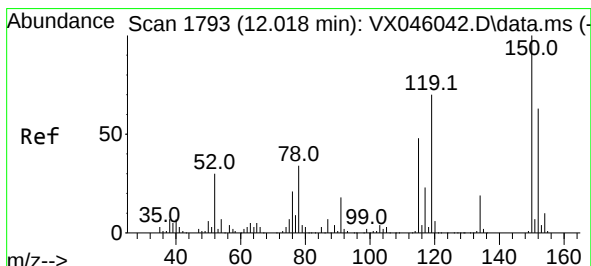
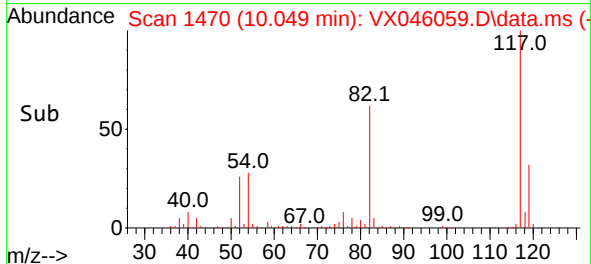
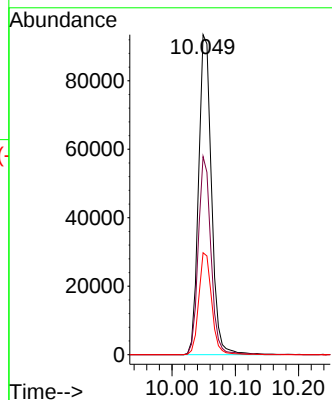
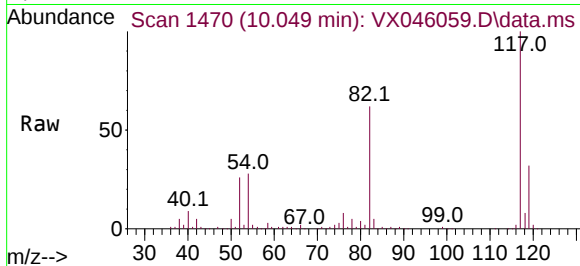




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

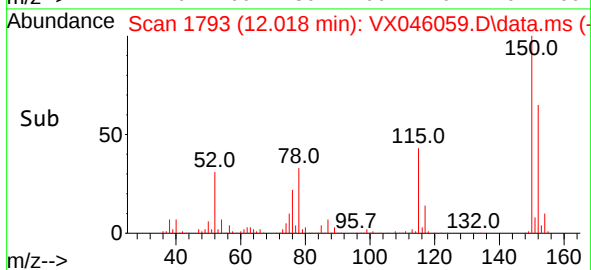
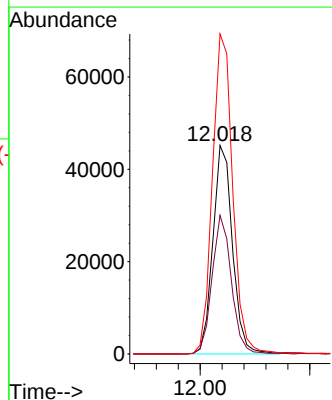
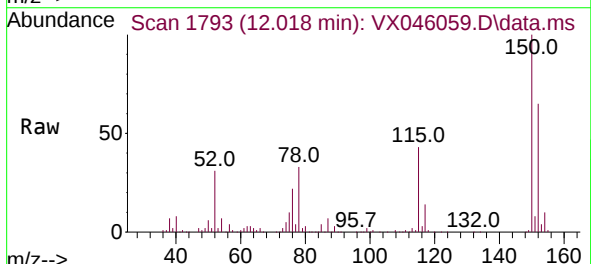
Instrument :
MSVOA_X
ClientSampleId :
PB167852TB

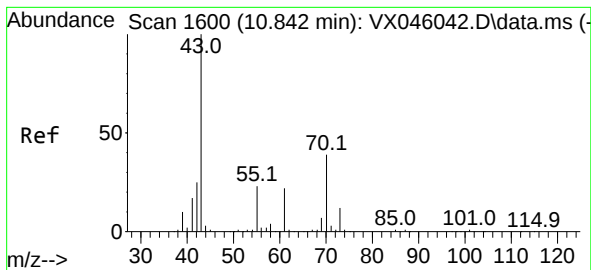
Tgt Ion:117 Resp: 132970
Ion Ratio Lower Upper
117 100
82 61.9 50.6 76.0
119 31.9 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046059.D
Acq: 06 May 2025 13:25

Tgt Ion:152 Resp: 56151
Ion Ratio Lower Upper
152 100
115 65.4 46.9 140.7
150 158.8 0.0 351.0





#74

N-amy1 acetate

Concen: 0.768 ug/l

RT: 10.781 min Scan# 1659

Delta R.T. -0.061 min

Lab File: VX046059.D

Acq: 06 May 2025 13:25

Instrument :

MSVOA_X

ClientSampleId :

PB167852TB

Tgt Ion: 43 Resp: 1659

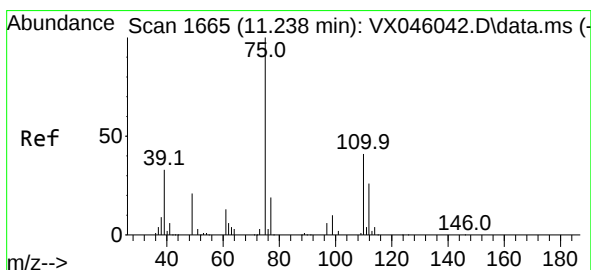
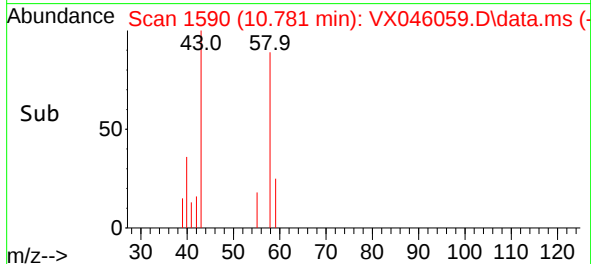
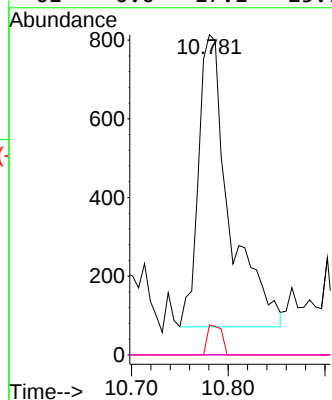
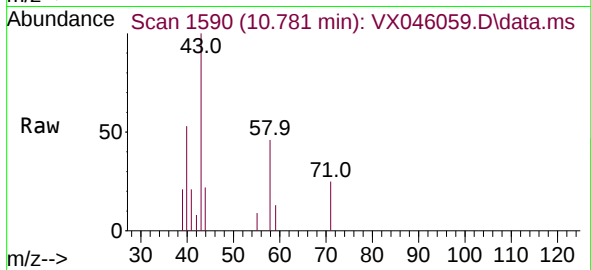
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 4.7 18.7 28.1#

61 0.0 17.1 25.7#



#76

1,2,3-Trichloropropane

Concen: 29.838 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX046059.D

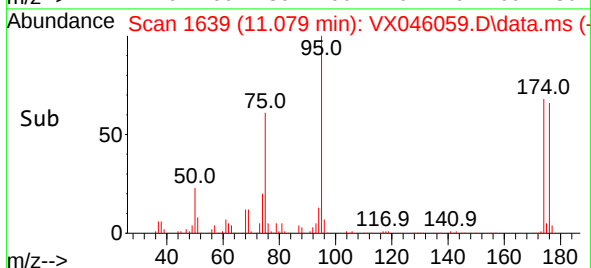
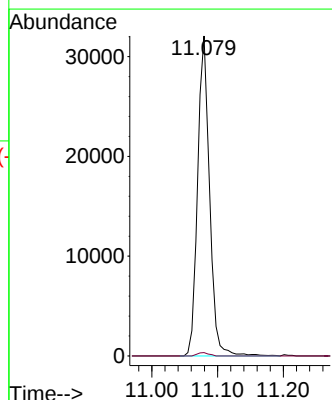
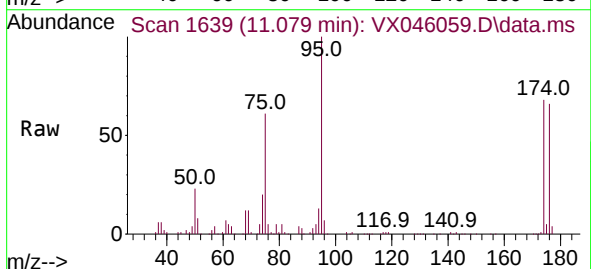
Acq: 06 May 2025 13:25

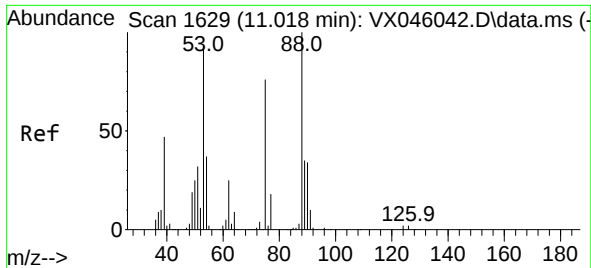
Tgt Ion: 75 Resp: 40328

Ion Ratio Lower Upper

75 100

77 1.0 20.5 61.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.142 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX046059.D
 Acq: 06 May 2025 13:25

Instrument :
 MSVOA_X
 ClientSampleId :
 PB167852TB

Tgt Ion: 75 Resp: 40328
 Ion Ratio Lower Upper
 75 100
 53 0.0 100.5 150.7#
 89 0.1 37.0 55.6#

