

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX041025\
 Data File : VX045699.D
 Acq On : 10 Apr 2025 15:23
 Operator : JC/MD
 Sample : PB167534ZHE#05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB167534ZHE#05

Quant Time: Apr 11 01:58:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

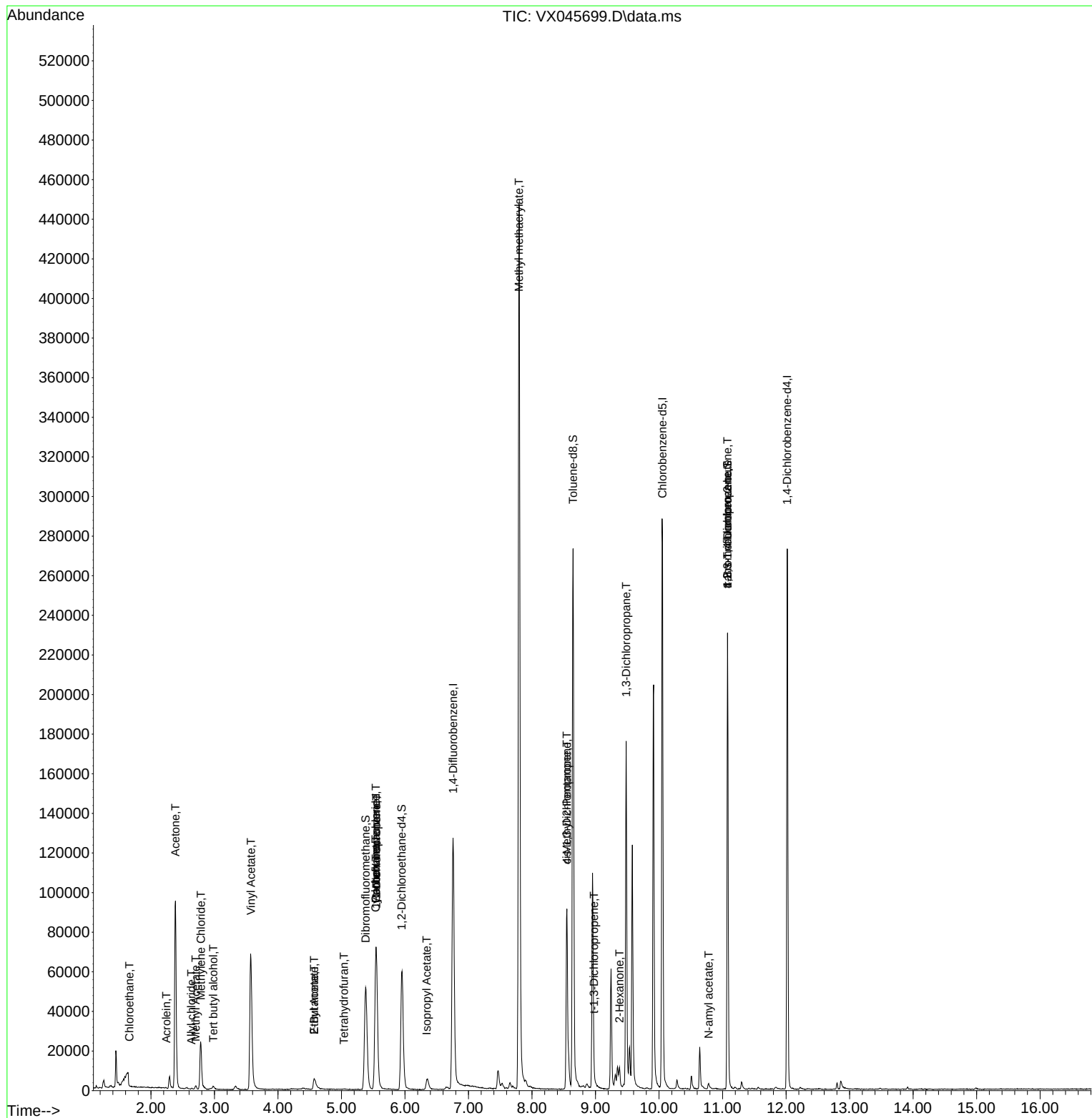
Internal Standards						
1) Pentafluorobenzene	5.544	168	62866	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	126149	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	118204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49672	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	63158	54.936	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.880%			
35) Dibromofluoromethane	5.379	113	45126	50.419	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.840%			
50) Toluene-d8	8.647	98	159464	51.045	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.080%			
62) 4-Bromofluorobenzene	11.079	95	58774	51.650	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.300%			
Target Compounds						Qvalue
6) Chloroethane	1.660	64	94	0.200	ug/l #	42
11) Tert butyl alcohol	2.983	59	1828	11.831	ug/l #	86
13) Acrolein	2.239	56	122	0.573	ug/l	94
14) Allyl chloride	2.636	41	345	0.241	ug/l #	70
16) Acetone	2.386	43	107675	228.086	ug/l	100
18) Methyl Acetate	2.703	43	2341	2.154	ug/l #	84
20) Methylene Chloride	2.788	84	11089	12.547	ug/l	96
23) Vinyl Acetate	3.574	43	1341	0.550	ug/l #	74
25) 2-Butanone	4.568	43	11024	15.953	ug/l	91
29) Tetrahydrofuran	5.038	42	113	0.252	ug/l #	50
31) Cyclohexane	5.537	56	1983	1.406	ug/l #	39
36) 1,1-Dichloropropene	5.550	75	5964	4.935	ug/l #	49
37) Ethyl Acetate	4.568	43	11024	7.239	ug/l #	71
38) Carbon Tetrachloride	5.544	117	7560	5.788	ug/l #	15
43) Isopropyl Acetate	6.342	43	8697	3.768	ug/l	96
48) Methyl methacrylate	7.793	41	45588	38.253	ug/l #	50
51) 4-Methyl-2-Pentanone	8.549	43	41639	27.213	ug/l #	47
53) t-1,3-Dichloropropene	8.976	75	51	2.325	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	13924	10.496	ug/l #	71
57) 1,3-Dichloropropane	9.482	76	1275	0.823	ug/l #	42
59) 2-Hexanone	9.378	43	7162	6.321	ug/l #	28
74) N-amyl acetate	10.780	43	2153	1.131	ug/l #	49
76) 1,2,3-Trichloropropane	11.079	75	34646	28.595	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	34646	97.047	ug/l #	1

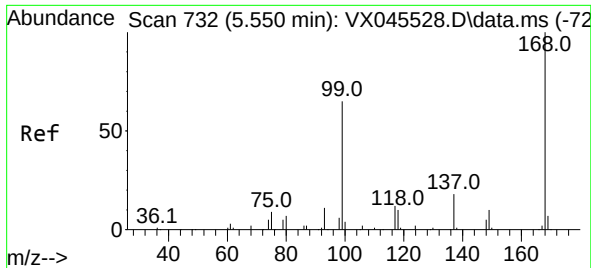
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

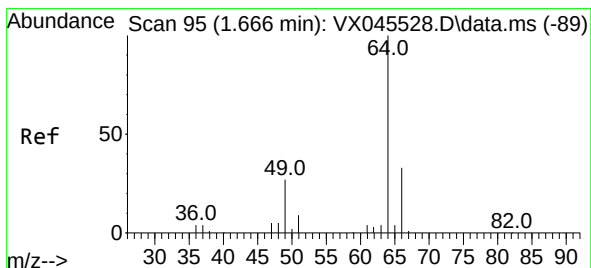
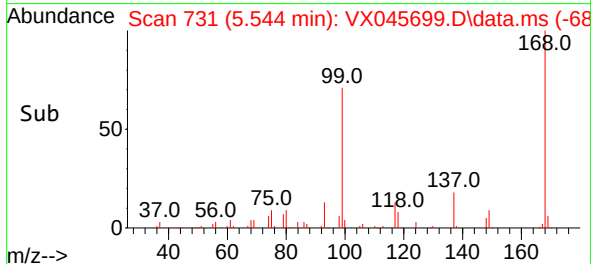
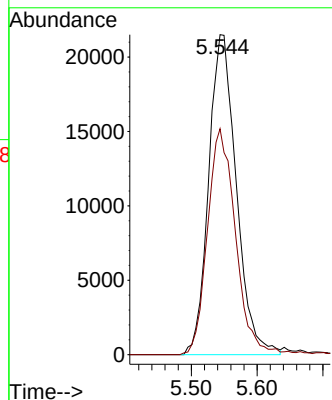
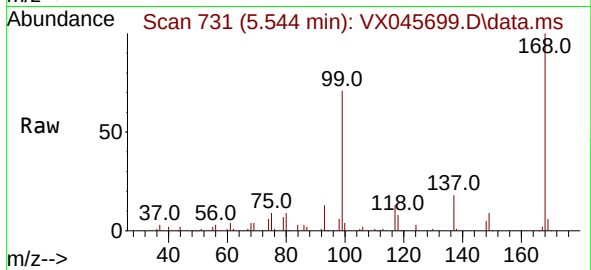




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

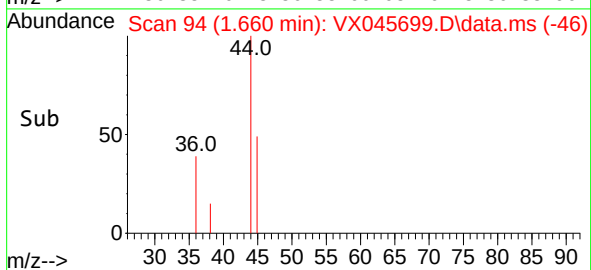
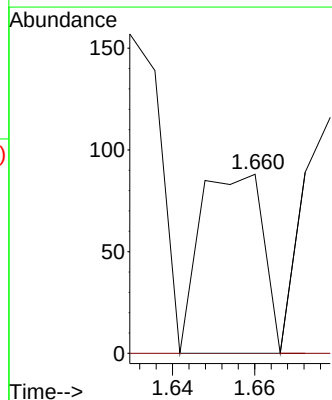
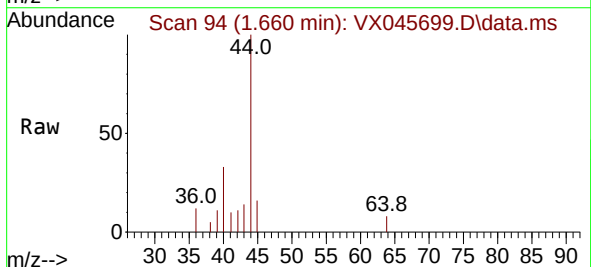
Instrument :
MSVOA_X
ClientSampleId :
PB167534ZHE#05

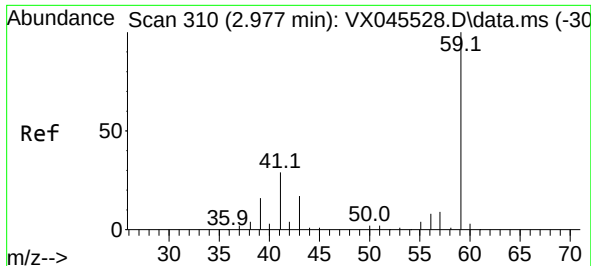
Tgt Ion:168 Resp: 62866
Ion Ratio Lower Upper
168 100
99 70.6 52.3 78.5



#6
Chloroethane
Concen: 0.200 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

Tgt Ion: 64 Resp: 94
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5

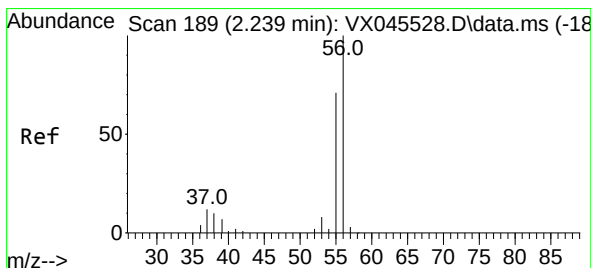
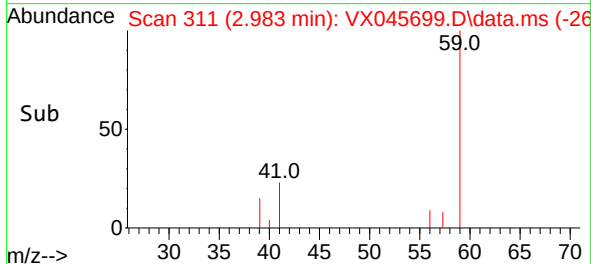
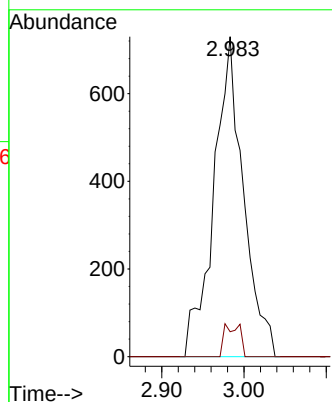
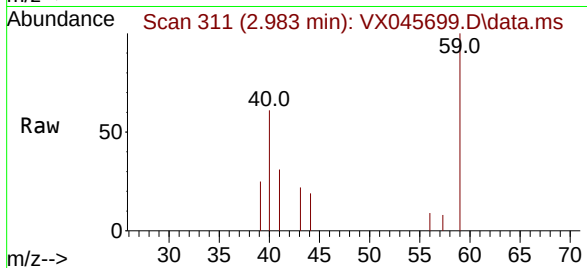




#11
Tert butyl alcohol
Concen: 11.831 ug/l
RT: 2.983 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

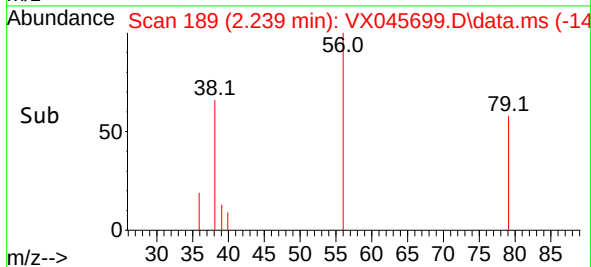
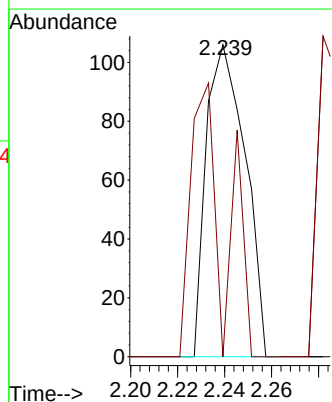
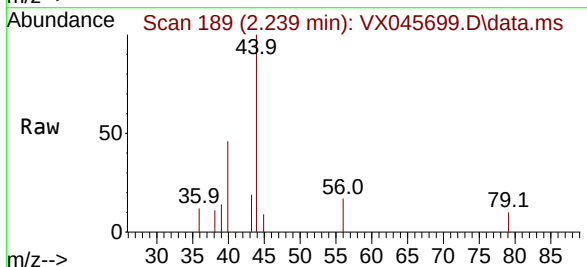
Instrument :
MSVOA_X
ClientSampleId :
PB167534ZHE#05

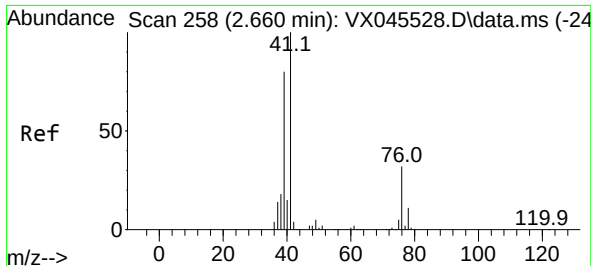
Tgt Ion: 59 Resp: 1828
Ion Ratio Lower Upper
59 100
57 5.3 8.6 12.8#



#13
Acrolein
Concen: 0.573 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 75.4 56.2 84.2

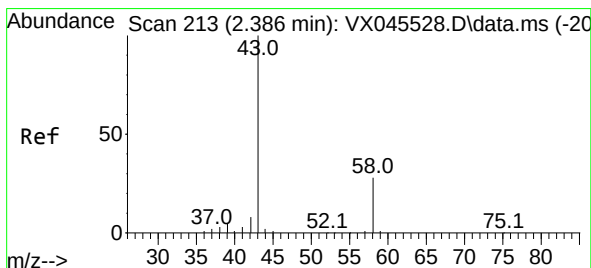
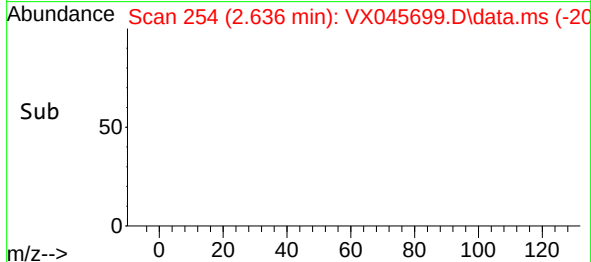
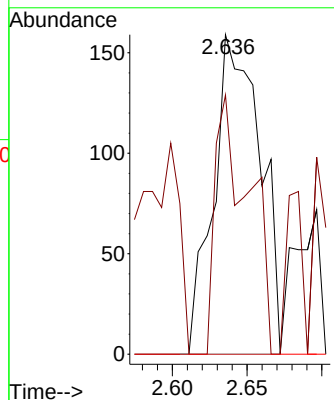
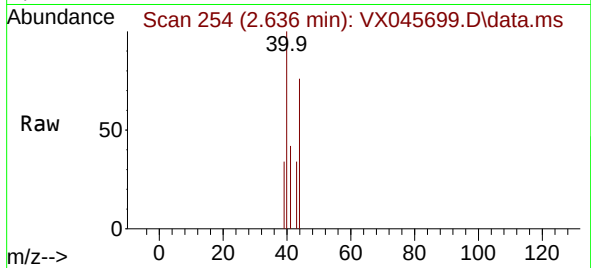




#14
 Allyl chloride
 Concen: 0.241 ug/l
 RT: 2.636 min Scan# 214
 Delta R.T. -0.025 min
 Lab File: VX045699.D
 Acq: 10 Apr 2025 15:23

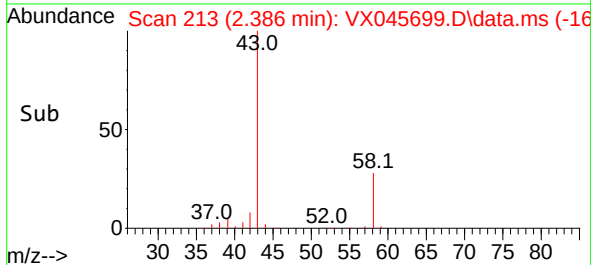
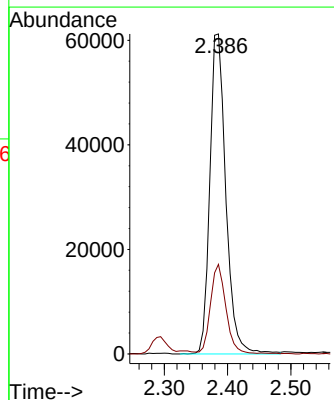
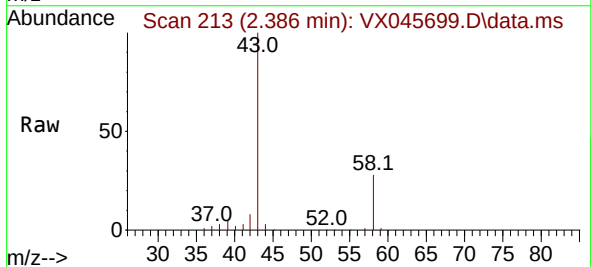
Instrument :
 MSVOA_X
 ClientSampleId :
 PB167534ZHE#05

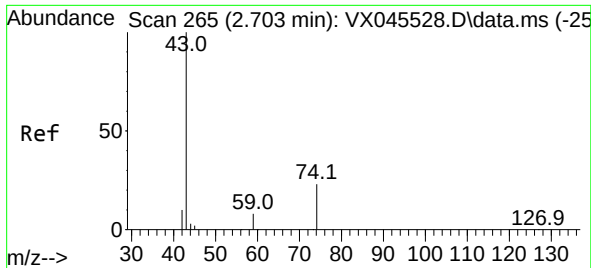
Tgt Ion: 41 Resp: 345
 Ion Ratio Lower Upper
 41 100
 39 59.1 60.2 90.2#
 76 0.0 24.6 36.8#



#16
 Acetone
 Concen: 228.086 ug/l
 RT: 2.386 min Scan# 213
 Delta R.T. -0.000 min
 Lab File: VX045699.D
 Acq: 10 Apr 2025 15:23

Tgt Ion: 43 Resp: 107675
 Ion Ratio Lower Upper
 43 100
 58 27.9 22.3 33.5

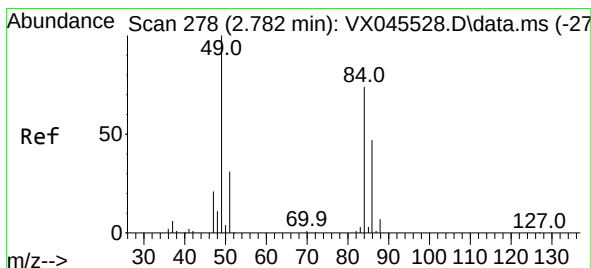
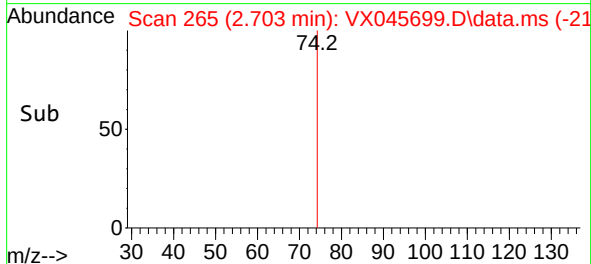
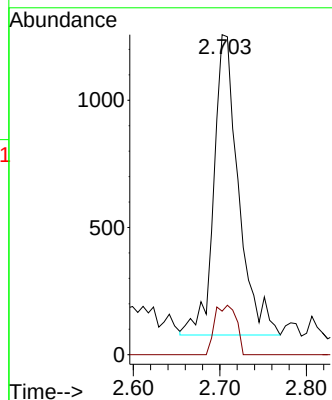
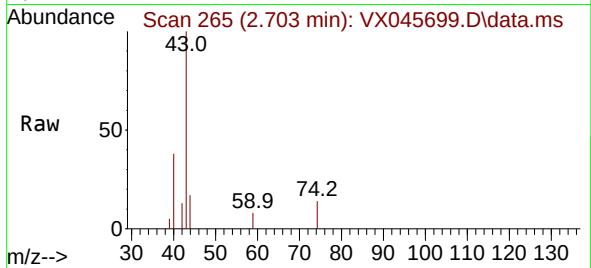




#18
Methyl Acetate
Concen: 2.154 ug/l
RT: 2.703 min Scan# 218
Delta R.T. -0.000 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

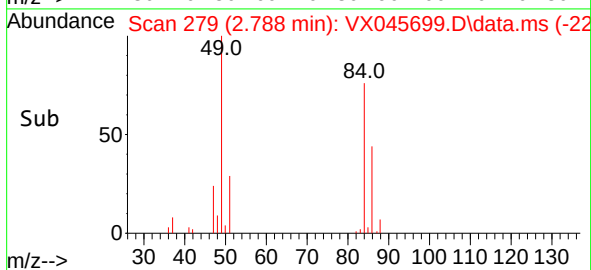
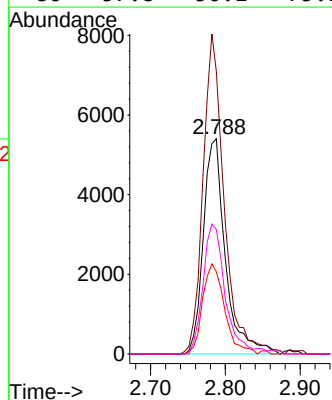
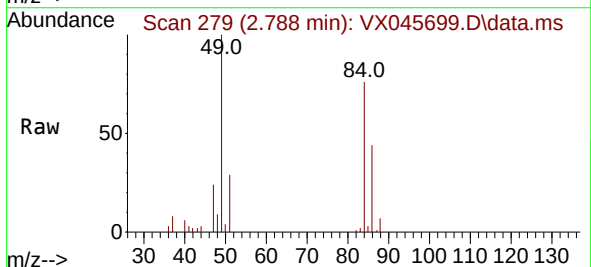
Instrument :
MSVOA_X
ClientSampleId :
PB167534ZHE#05

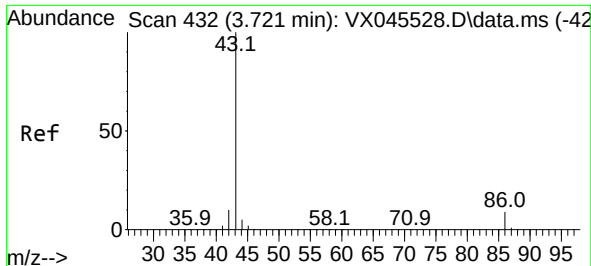
Tgt Ion: 43 Resp: 2341
Ion Ratio Lower Upper
43 100
74 14.4 17.5 26.3#



#20
Methylene Chloride
Concen: 12.547 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

Tgt Ion: 84 Resp: 11089
Ion Ratio Lower Upper
84 100
49 131.2 107.5 161.3
51 38.1 33.0 49.6
86 57.8 50.1 75.1

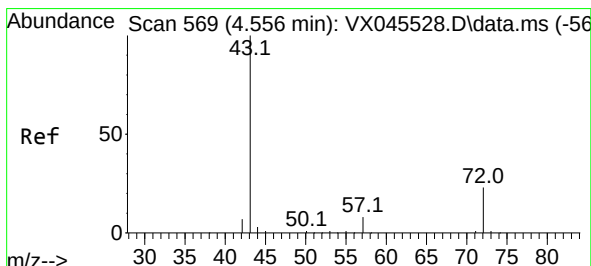
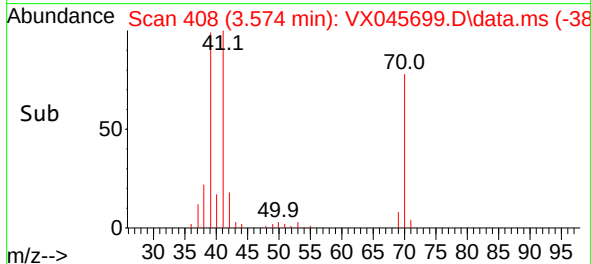
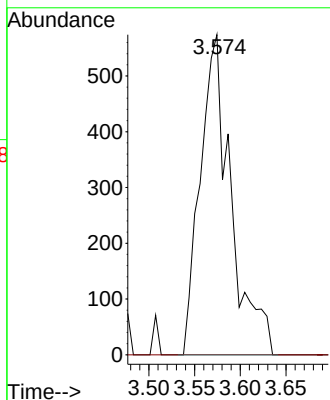
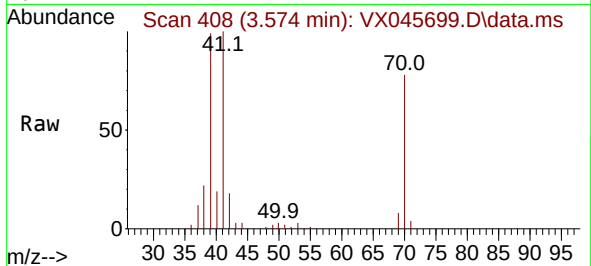




#23
 Vinyl Acetate
 Concen: 0.550 ug/l
 RT: 3.574 min Scan# 408
 Delta R.T. -0.146 min
 Lab File: VX045699.D
 Acq: 10 Apr 2025 15:23

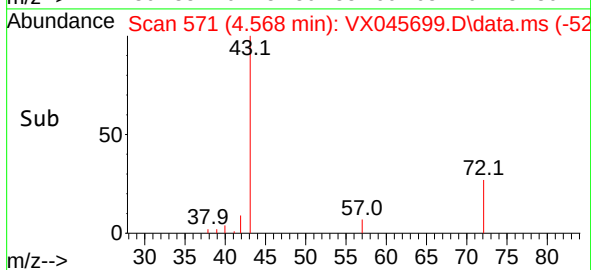
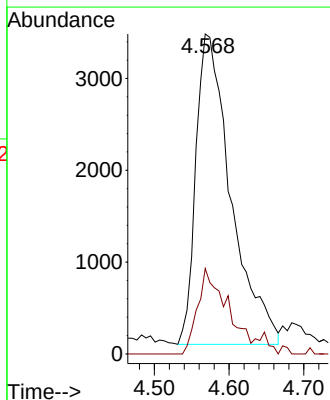
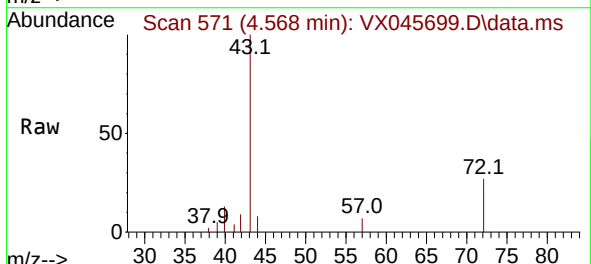
Instrument :
 MSVOA_X
 ClientSampleId :
 PB167534ZHE#05

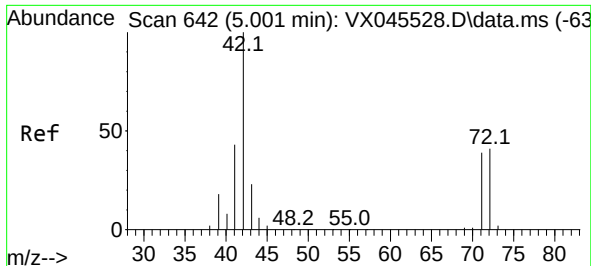
Tgt Ion: 43 Resp: 1341
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.5 11.3#



#25
 2-Butanone
 Concen: 15.953 ug/l
 RT: 4.568 min Scan# 571
 Delta R.T. 0.012 min
 Lab File: VX045699.D
 Acq: 10 Apr 2025 15:23

Tgt Ion: 43 Resp: 11024
 Ion Ratio Lower Upper
 43 100
 72 27.5 18.6 28.0





#29

Tetrahydrofuran

Concen: 0.252 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.036 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Instrument :

MSVOA_X

ClientSampleId :

PB167534ZHE#05

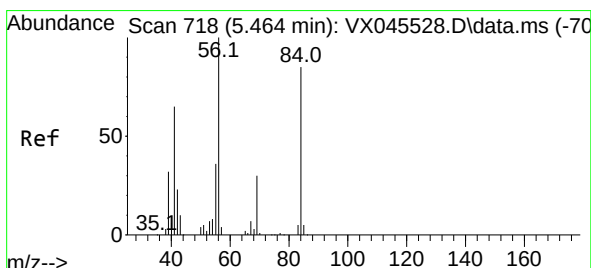
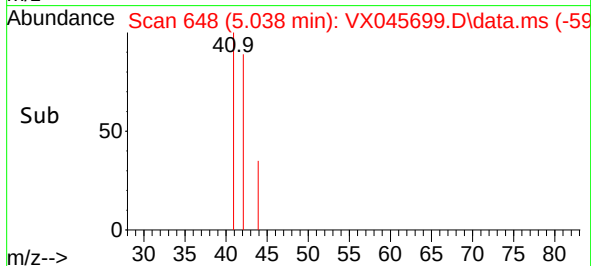
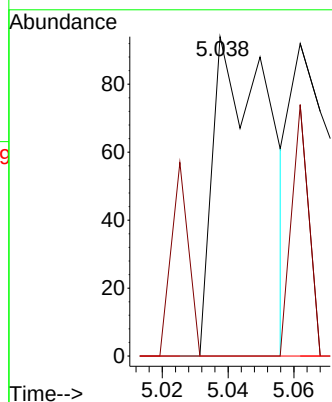
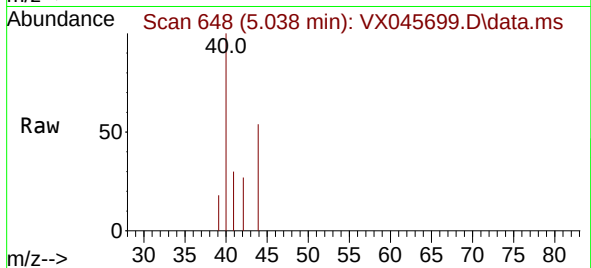
Tgt Ion: 42 Resp: 113

Ion Ratio Lower Upper

42 100

72 18.6 33.4 50.0#

71 0.0 31.4 47.0#



#31

Cyclohexane

Concen: 1.406 ug/l

RT: 5.537 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

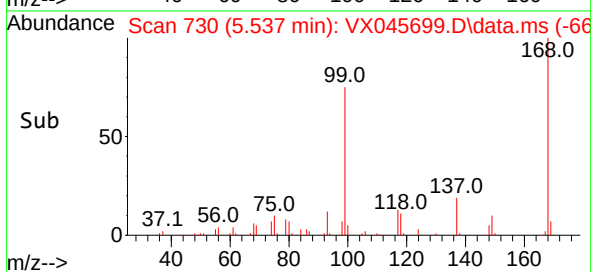
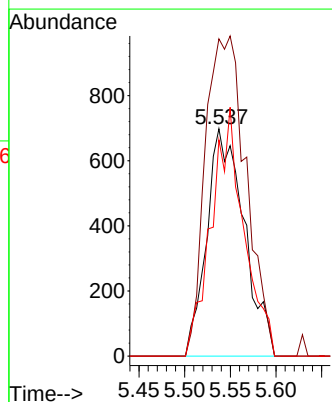
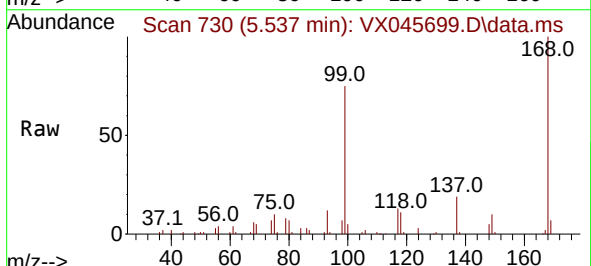
Tgt Ion: 56 Resp: 1983

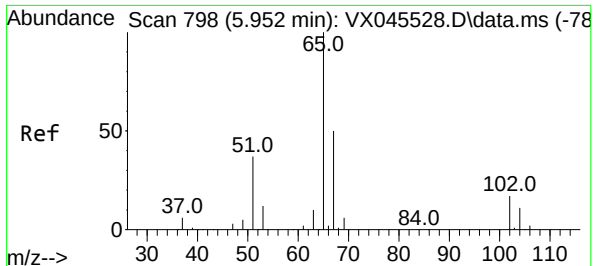
Ion Ratio Lower Upper

56 100

69 139.5 23.6 35.4#

84 95.1 67.7 101.5





#33

1,2-Dichloroethane-d4

Concen: 54.936 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Instrument :

MSVOA_X

ClientSampleId :

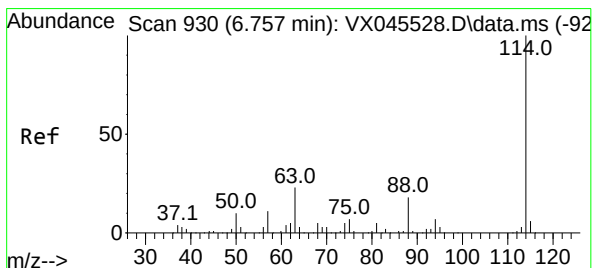
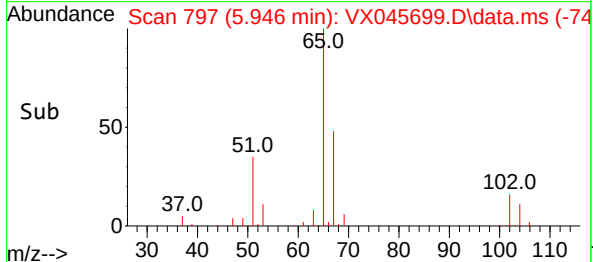
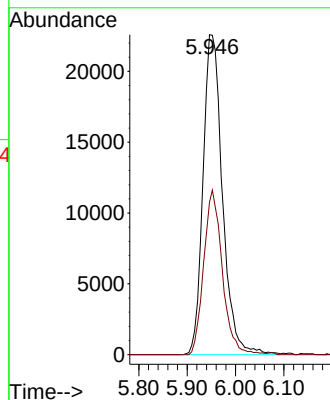
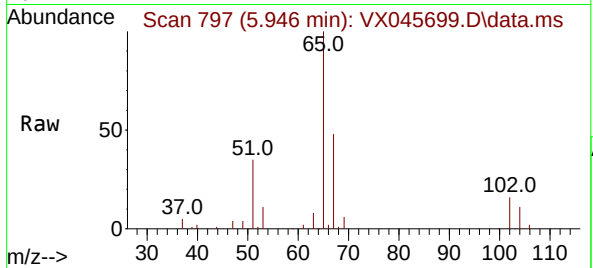
PB167534ZHE#05

Tgt Ion: 65 Resp: 63158

Ion Ratio Lower Upper

65 100

67 49.2 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: VX045699.D

Acq: 10 Apr 2025 15:23

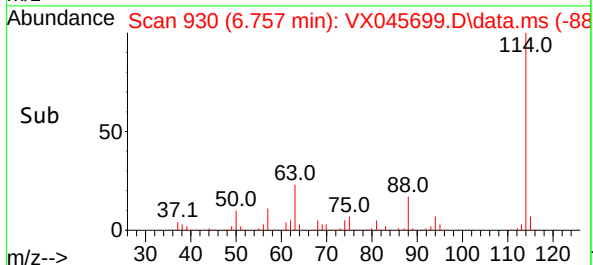
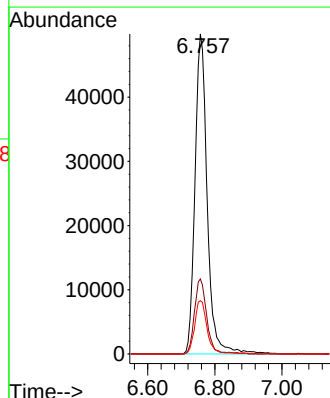
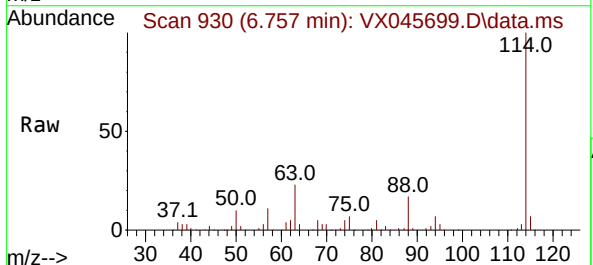
Tgt Ion: 114 Resp: 126149

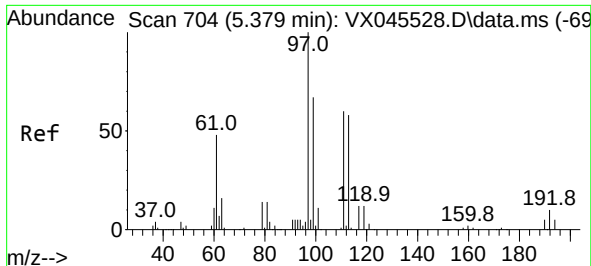
Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.8

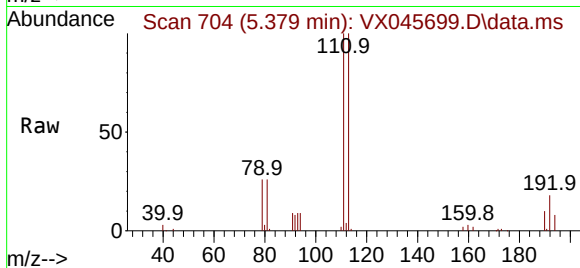
88 16.7 0.0 35.4



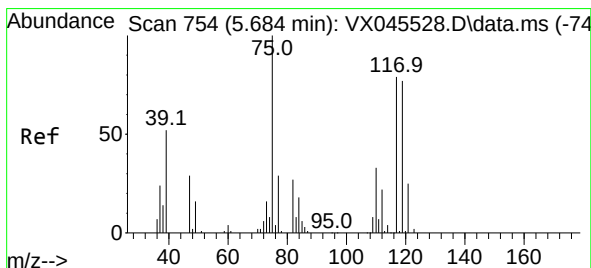
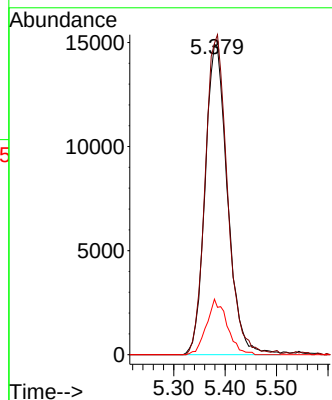
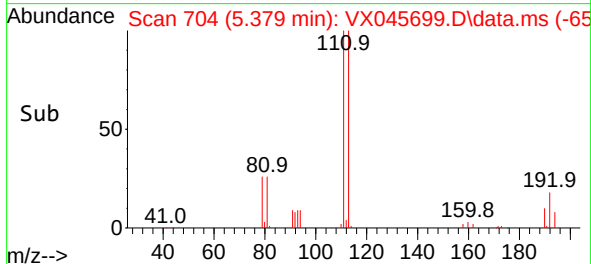


#35
Dibromofluoromethane
Concen: 50.419 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

Instrument :
MSVOA_X
ClientSampleId :
PB167534ZHE#05

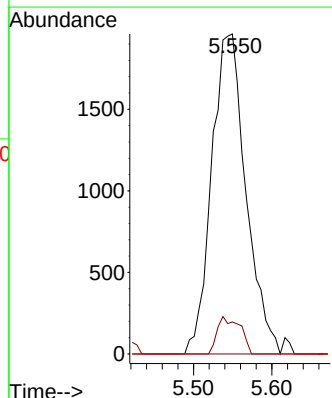
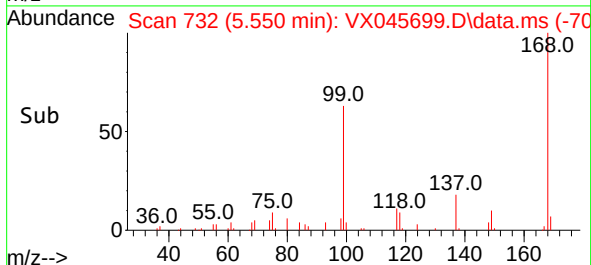
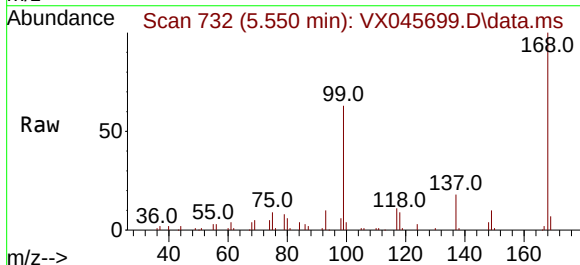


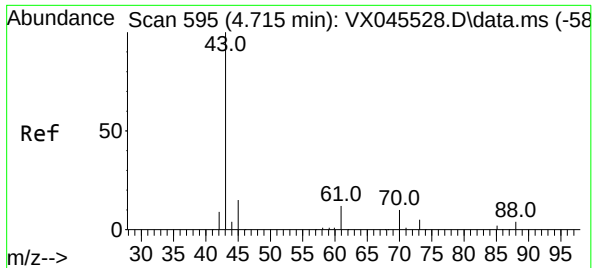
Tgt Ion:113 Resp: 45126
Ion Ratio Lower Upper
113 100
111 102.2 81.8 122.6
192 16.5 13.8 20.6



#36
1,1-Dichloropropene
Concen: 4.935 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.134 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

Tgt Ion: 75 Resp: 5964
Ion Ratio Lower Upper
75 100
110 7.8 16.9 50.6#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 7.239 ug/l

RT: 4.568 min Scan# 51

Delta R.T. -0.146 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Instrument :

MSVOA_X

ClientSampleId :

PB167534ZHE#05

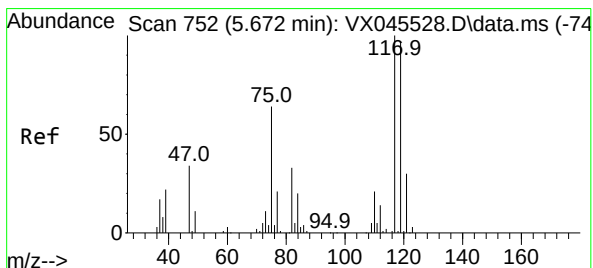
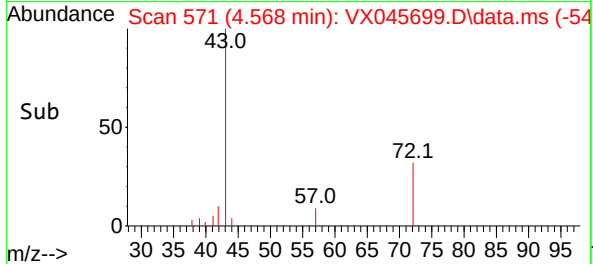
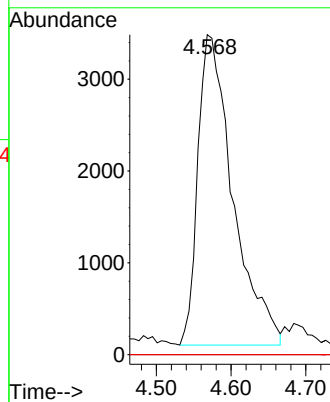
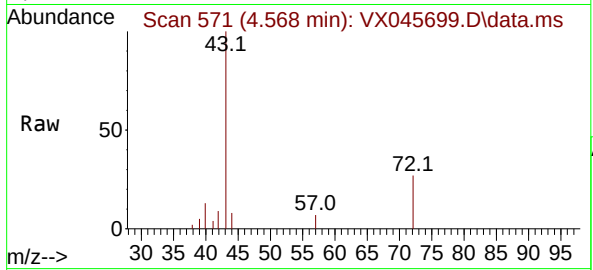
Tgt Ion: 43 Resp: 11024

Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

70 0.0 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 5.788 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.128 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

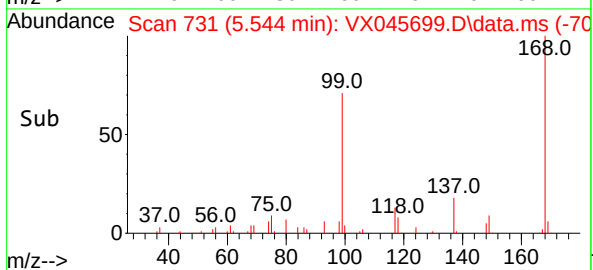
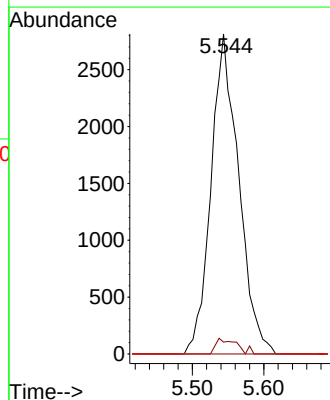
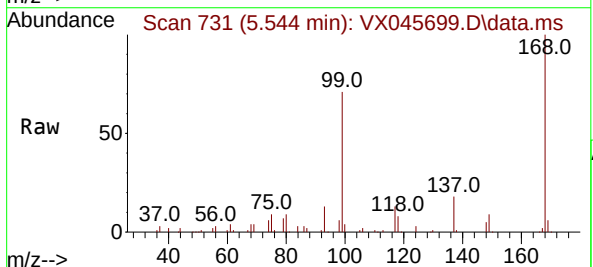
Tgt Ion: 117 Resp: 7560

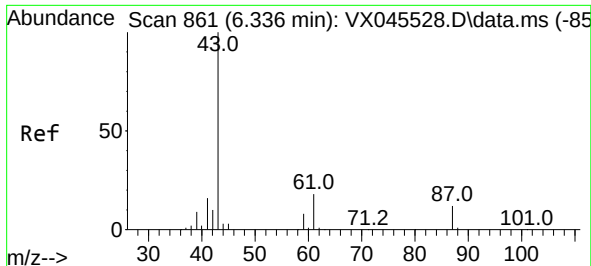
Ion Ratio Lower Upper

117 100

119 3.7 76.9 115.3#

121 0.0 24.2 36.2#

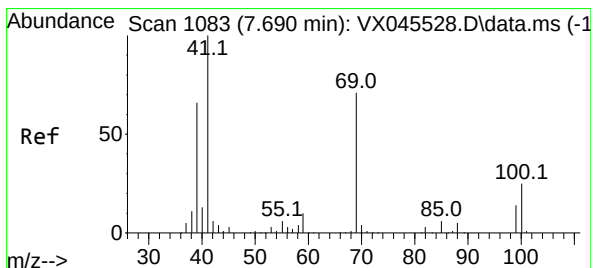
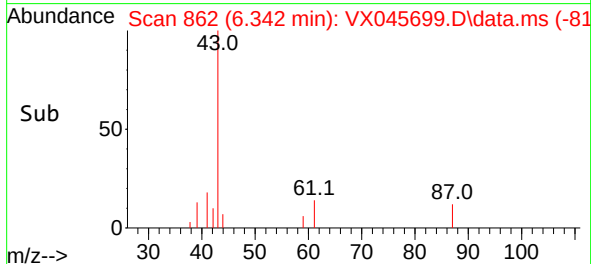
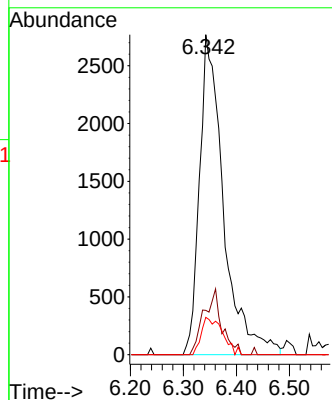
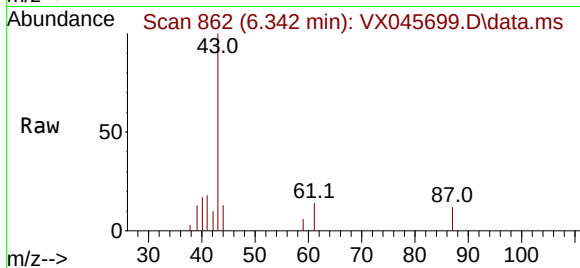




#43
Isopropyl Acetate
Concen: 3.768 ug/l
RT: 6.342 min Scan# 861
Delta R.T. 0.006 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

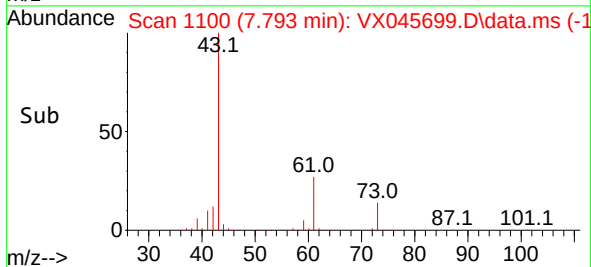
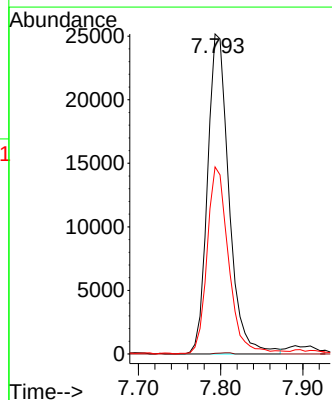
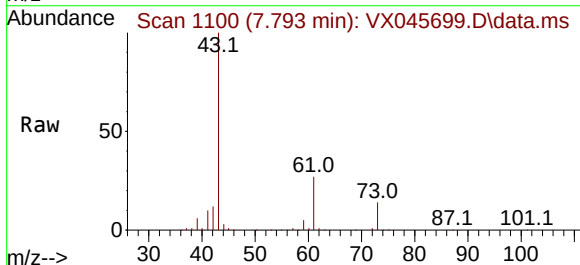
Instrument :
MSVOA_X
ClientSampleId :
PB167534ZHE#05

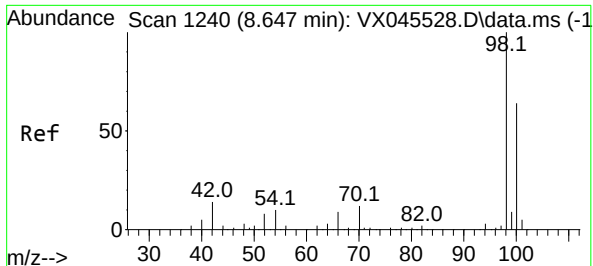
Tgt Ion: 43 Resp: 8697
Ion Ratio Lower Upper
43 100
61 15.5 14.1 21.1
87 10.3 9.2 13.8



#48
Methyl methacrylate
Concen: 38.253 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.103 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

Tgt Ion: 41 Resp: 45588
Ion Ratio Lower Upper
41 100
69 0.2 58.2 87.2#
39 59.1 53.6 80.4

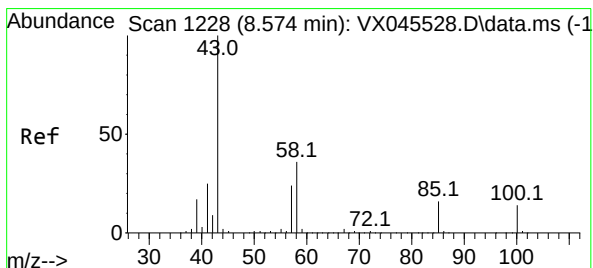
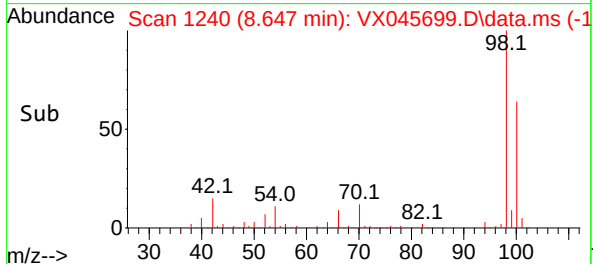
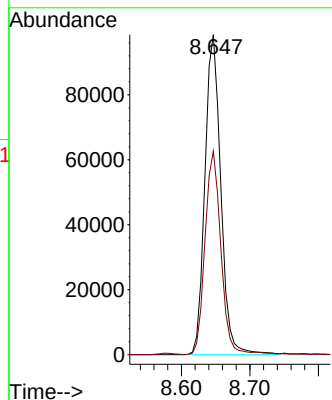
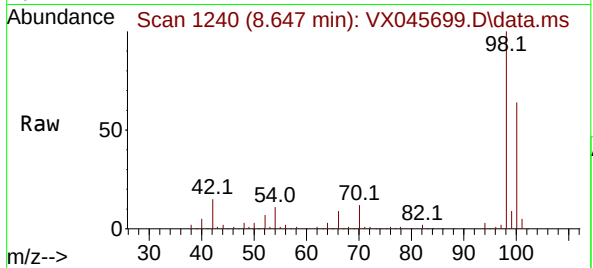




#50
Toluene-d8
Concen: 51.045 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

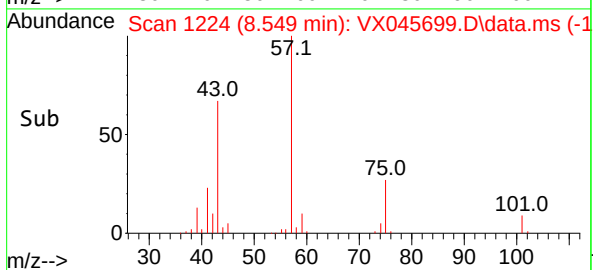
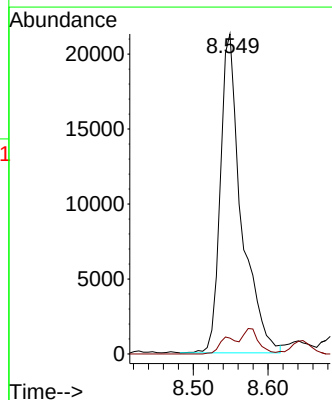
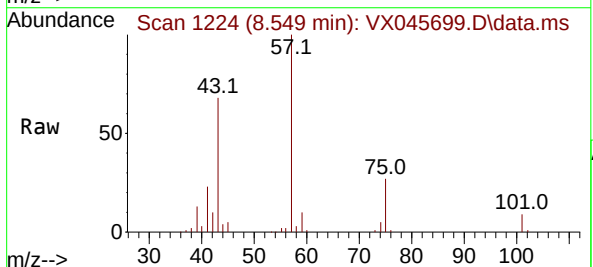
Instrument :
MSVOA_X
ClientSampleId :
PB167534ZHE#05

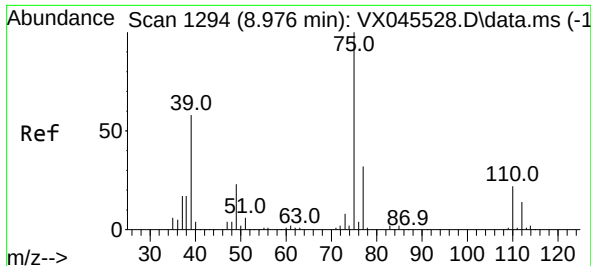
Tgt Ion: 98 Resp: 159464
Ion Ratio Lower Upper
98 100
100 63.6 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 27.213 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.025 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

Tgt Ion: 43 Resp: 41639
Ion Ratio Lower Upper
43 100
58 4.5 28.5 42.7#





#53

t-1,3-Dichloropropene

Concen: 2.325 ug/l

RT: 8.976 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Instrument :

MSVOA_X

ClientSampleId :

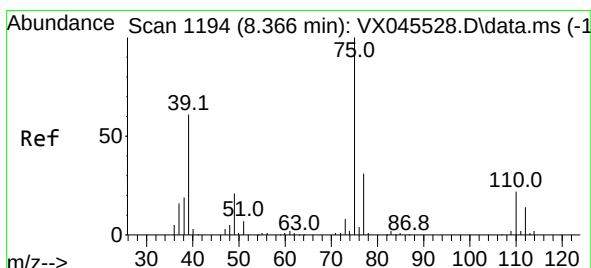
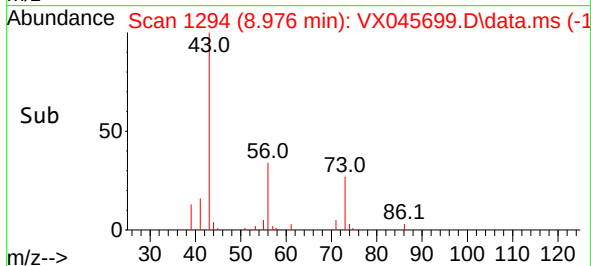
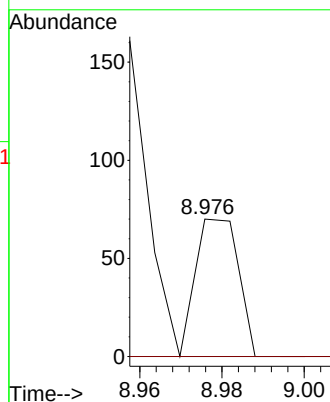
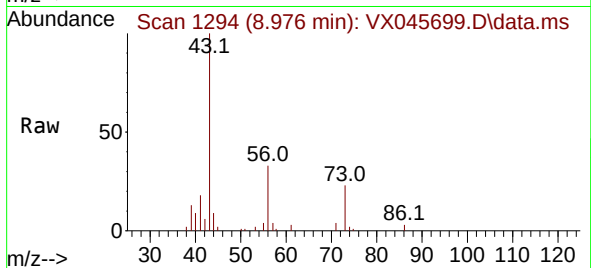
PB167534ZHE#05

Tgt Ion: 75 Resp: 51

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 10.496 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

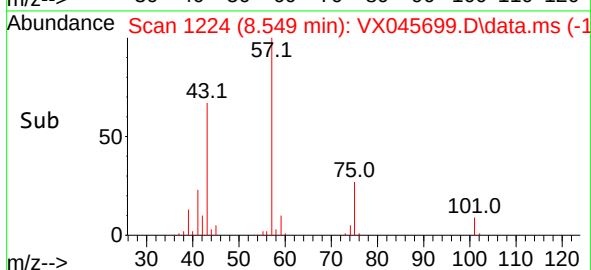
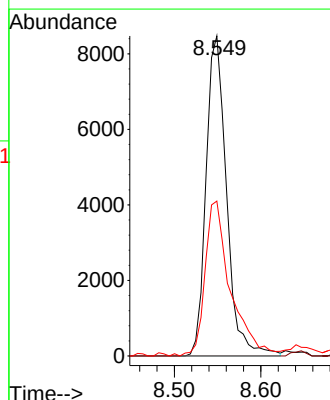
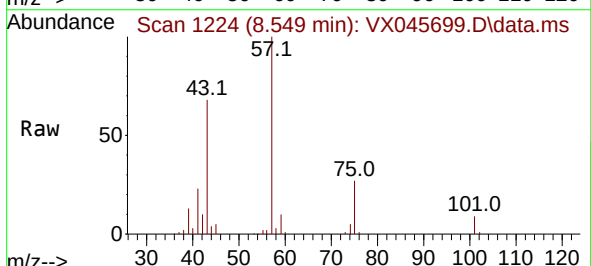
Tgt Ion: 75 Resp: 13924

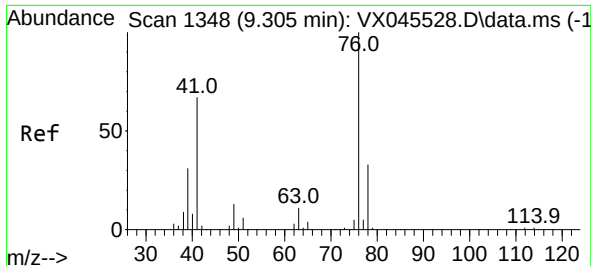
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 48.4 48.4 72.6





#57

1,3-Dichloropropane

Concen: 0.823 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Instrument :

MSVOA_X

ClientSampleId :

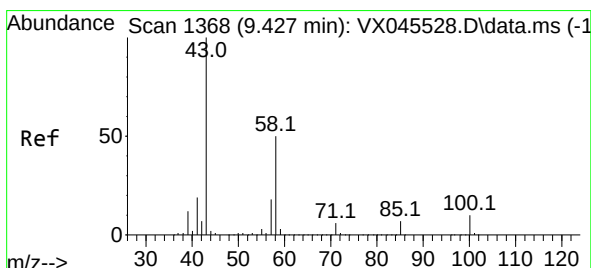
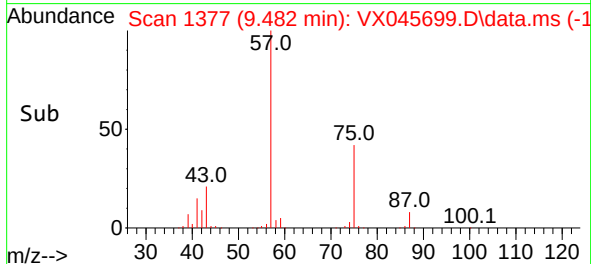
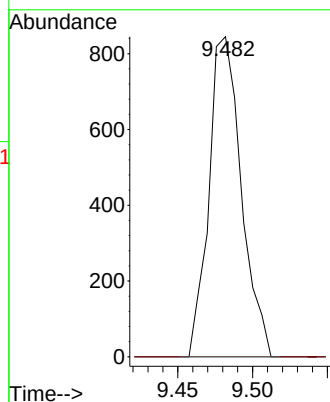
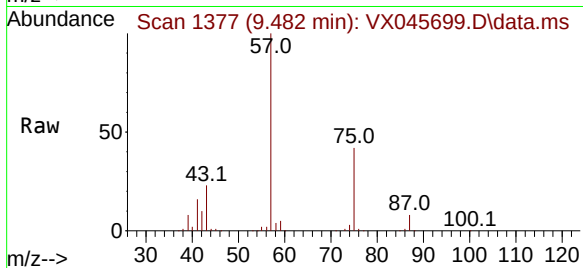
PB167534ZHE#05

Tgt Ion: 76 Resp: 1275

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 6.321 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX045699.D

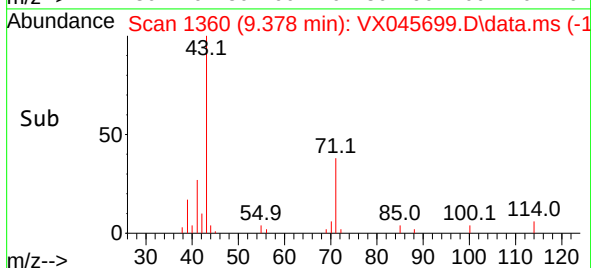
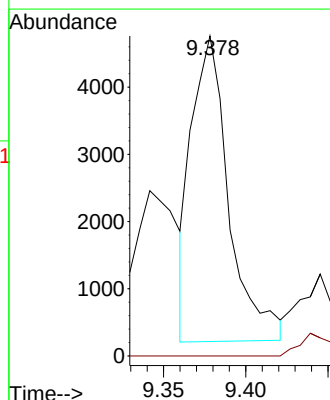
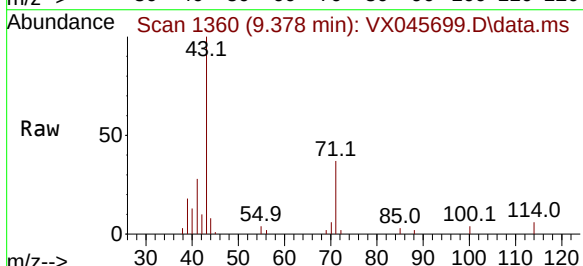
Acq: 10 Apr 2025 15:23

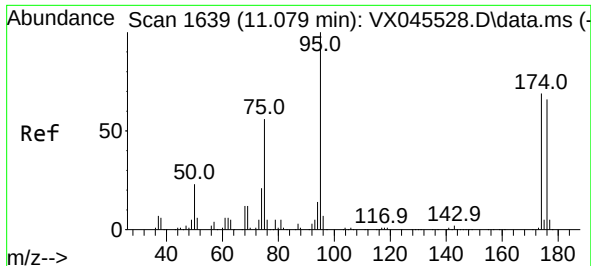
Tgt Ion: 43 Resp: 7162

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

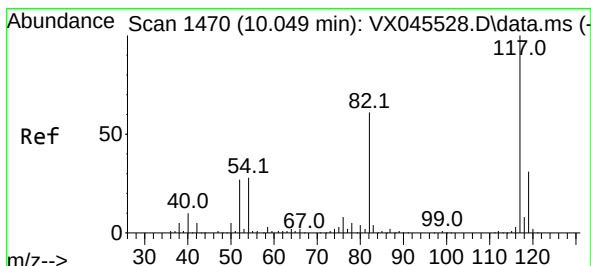
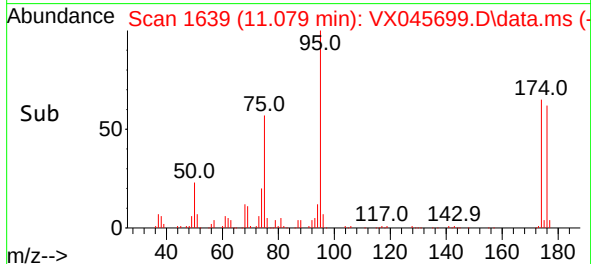
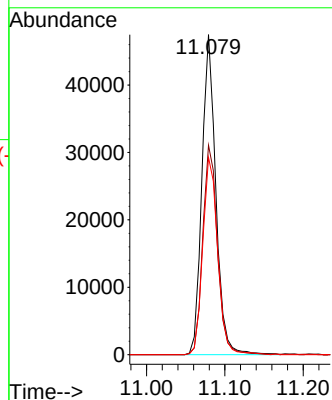
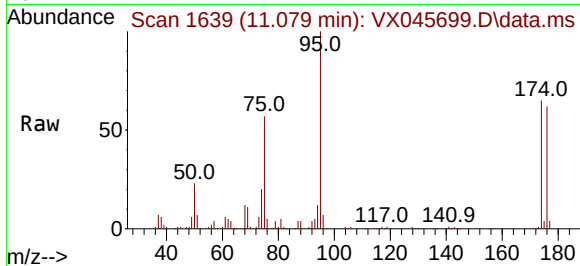




#62
4-Bromofluorobenzene
Concen: 51.650 ug/l
RT: 11.079 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

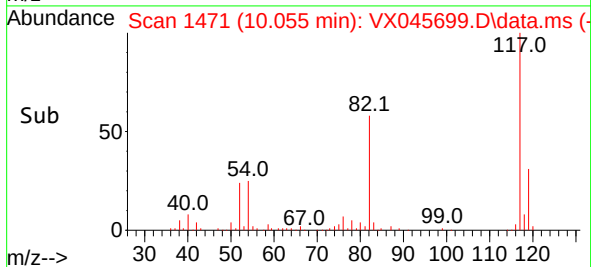
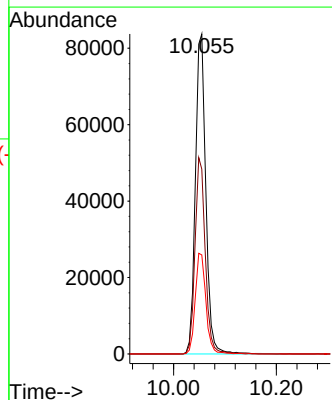
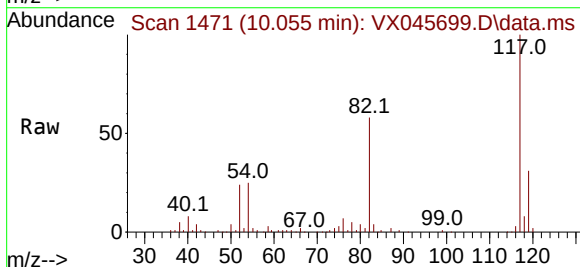
Instrument :
MSVOA_X
ClientSampleId :
PB167534ZHE#05

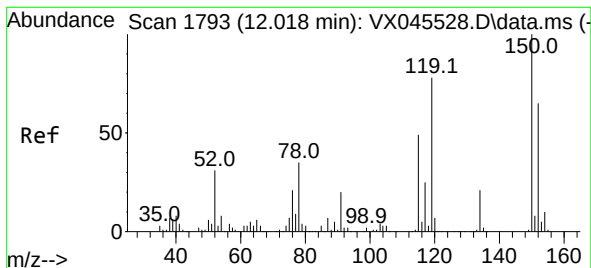
Tgt Ion: 95 Resp: 58774
Ion Ratio Lower Upper
95 100
174 68.8 0.0 135.8
176 66.1 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045699.D
Acq: 10 Apr 2025 15:23

Tgt Ion: 117 Resp: 118204
Ion Ratio Lower Upper
117 100
82 57.8 49.2 73.8
119 30.9 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Instrument :

MSVOA_X

ClientSampleId :

PB167534ZHE#05

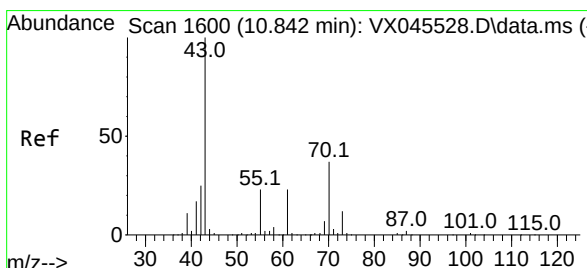
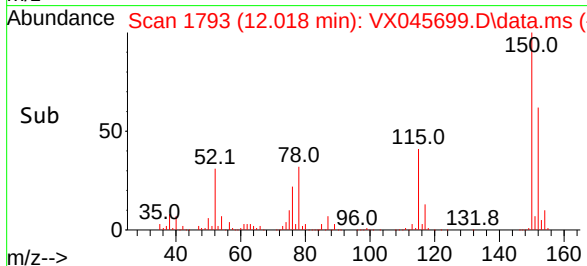
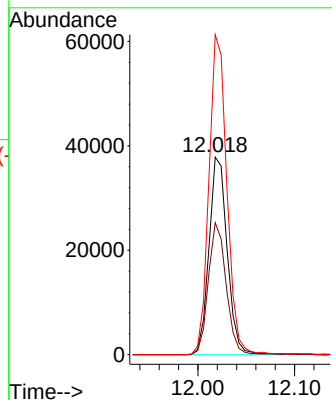
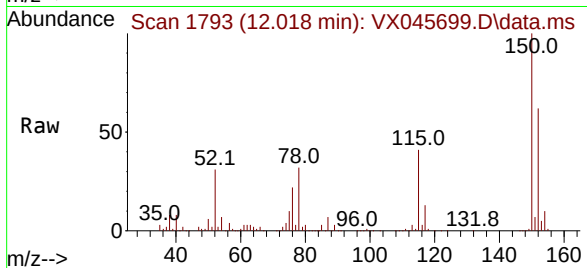
Tgt Ion:152 Resp: 49672

Ion Ratio Lower Upper

152 100

115 65.6 46.9 140.7

150 159.3 0.0 349.4



#74

N-ethyl acetate

Concen: 1.131 ug/l

RT: 10.780 min Scan# 1590

Delta R.T. -0.061 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Tgt Ion: 43 Resp: 2153

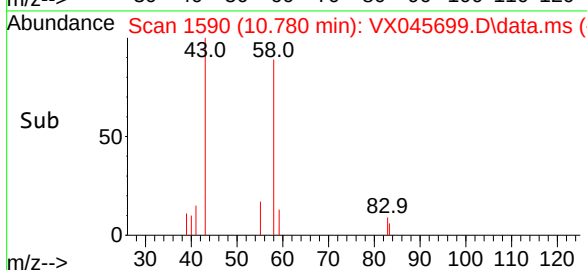
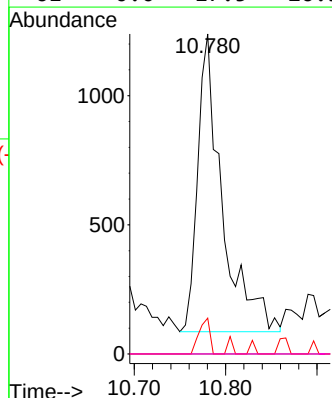
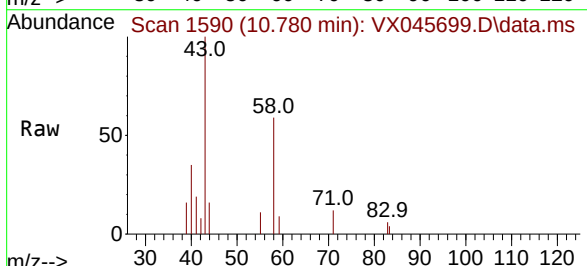
Ion Ratio Lower Upper

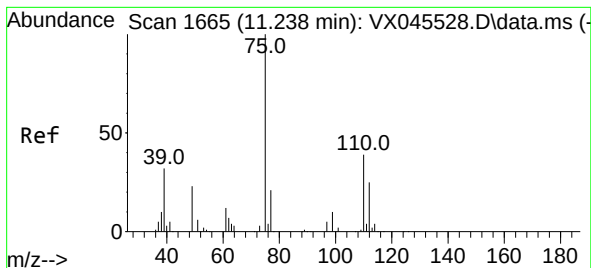
43 100

70 0.0 30.1 45.1#

55 5.3 18.3 27.5#

61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 28.595 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Instrument :

MSVOA_X

ClientSampleId :

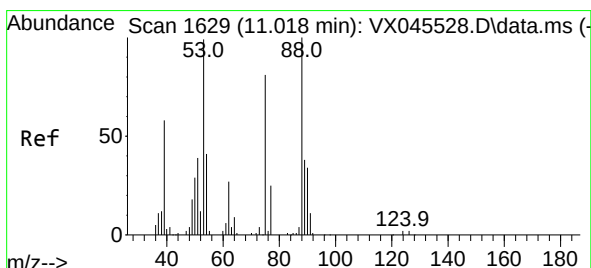
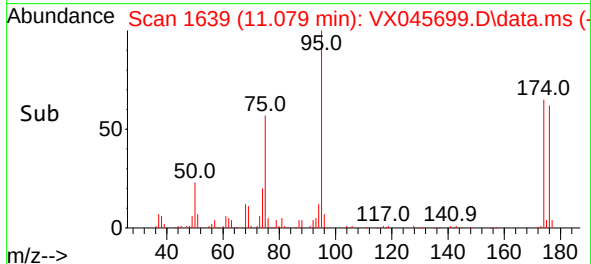
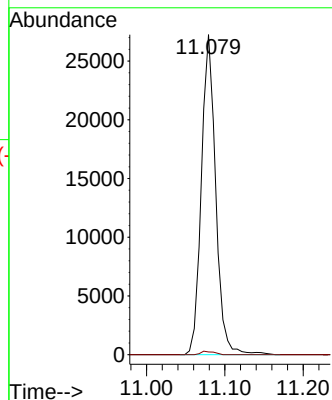
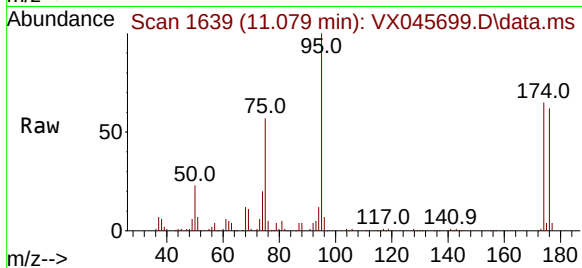
PB167534ZHE#05

Tgt Ion: 75 Resp: 34646

Ion Ratio Lower Upper

75 100

77 1.0 20.0 59.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 97.047 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX045699.D

Acq: 10 Apr 2025 15:23

Tgt Ion: 75 Resp: 34646

Ion Ratio Lower Upper

75 100

53 0.0 101.8 152.6#

89 0.0 37.2 55.8#

