

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
 Data File : VX045171.D
 Acq On : 06 Mar 2025 16:16
 Operator : JC/MD
 Sample : Q1488-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-101-SB02

Quant Time: Mar 07 00:46:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

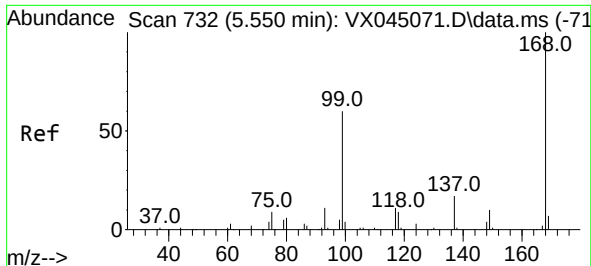
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	76620	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	153454	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	144581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55987	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66538	54.595	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.200%			
35) Dibromofluoromethane	5.385	113	53501	52.140	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.280%			
50) Toluene-d8	8.647	98	197961	53.215	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.440%			
62) 4-Bromofluorobenzene	11.079	95	64881	52.633	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.260%			
Target Compounds						Qvalue
6) Chloroethane	1.679	64	213	0.394	ug/l #	41
11) Tert butyl alcohol	2.941	59	478	2.071	ug/l #	73
13) Acrolein	2.233	56	325	1.218	ug/l	89
16) Acetone	2.380	43	44531	78.751	ug/l	97
17) Carbon Disulfide	2.508	76	1995	0.796	ug/l #	84
18) Methyl Acetate	2.703	43	2504	1.841	ug/l	99
20) Methylene Chloride	2.788	84	2398	2.141	ug/l	90
23) Vinyl Acetate	3.575	43	1193	0.419	ug/l #	73
25) 2-Butanone	4.593	43	5173	6.078	ug/l #	88
29) Tetrahydrofuran	5.026	42	123	0.215	ug/l #	34
30) Chloroform	5.099	83	383	0.202	ug/l #	69
31) Cyclohexane	5.544	56	1987	1.198	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	7012	4.983	ug/l #	50
37) Ethyl Acetate	4.757	43	795	0.438	ug/l #	70
38) Carbon Tetrachloride	5.544	117	8150	5.705	ug/l #	16
41) Methacrylonitrile	5.026	41	353	0.360	ug/l #	41
43) Isopropyl Acetate	6.342	43	49863	18.597	ug/l	99
48) Methyl methacrylate	7.610	41	1989	1.479	ug/l #	15
49) 1,4-Dioxane	7.793	88	59	2.079	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	53674	29.813	ug/l #	49
53) t-1,3-Dichloropropene	8.952	75	268	0.202	ug/l #	42
54) cis-1,3-Dichloropropene	8.549	75	21963	14.223	ug/l #	68
56) Ethyl methacrylate	9.244	69	347	0.213	ug/l #	1
57) 1,3-Dichloropropane	9.476	76	2646	1.425	ug/l #	43
59) 2-Hexanone	9.372	43	51530	39.504	ug/l #	26
74) N-amyl acetate	10.817	43	421	0.205	ug/l #	45
76) 1,2,3-Trichloropropane	11.079	75	35692	27.390	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	35692	93.734	ug/l #	6

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

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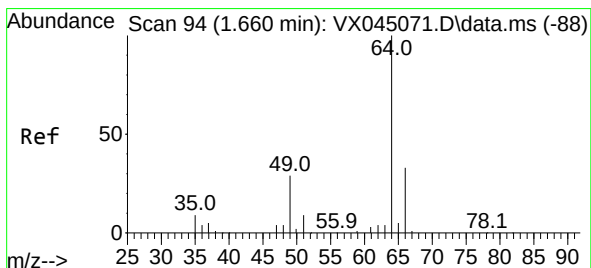
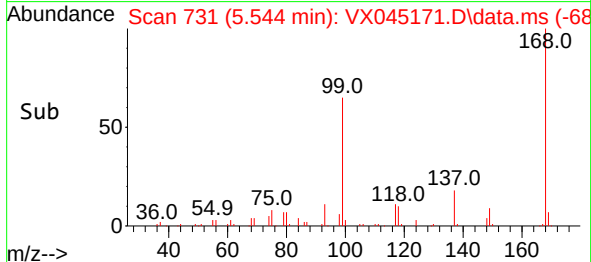
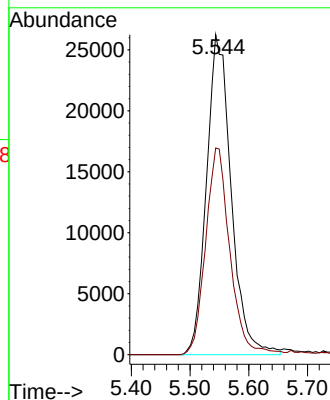
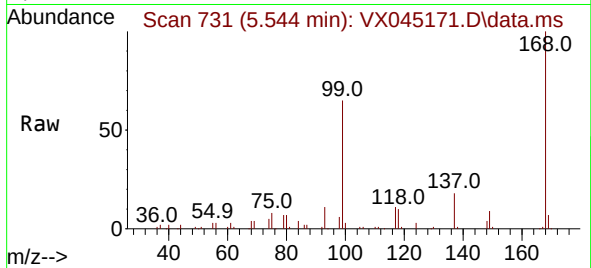




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

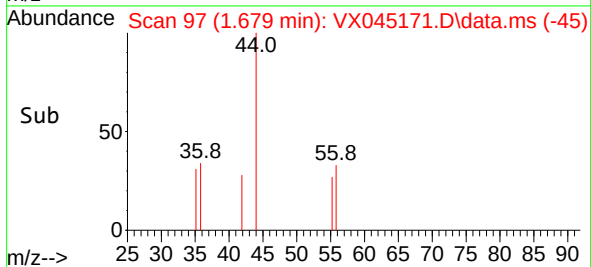
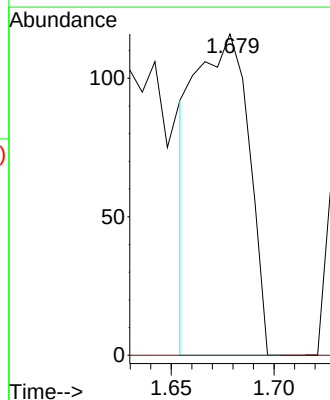
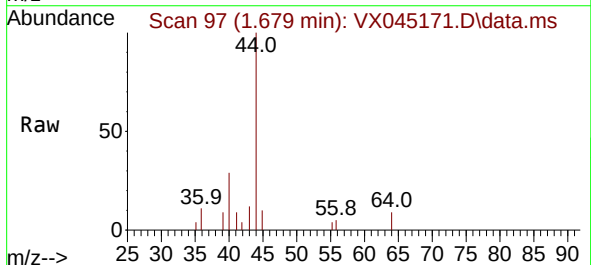
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

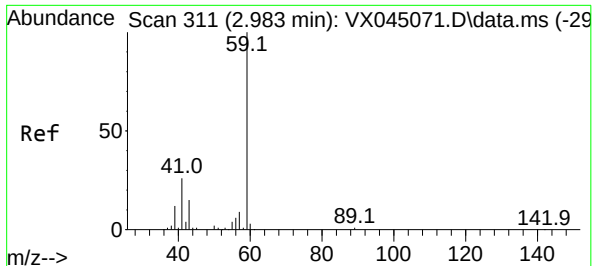
Tgt Ion:168 Resp: 76620
Ion Ratio Lower Upper
168 100
99 64.6 48.2 72.4



#6
Chloroethane
Concen: 0.394 ug/l
RT: 1.679 min Scan# 97
Delta R.T. 0.018 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 64 Resp: 213
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#





#11

Tert butyl alcohol

Concen: 2.071 ug/l

RT: 2.941 min Scan# 304

Delta R.T. -0.043 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

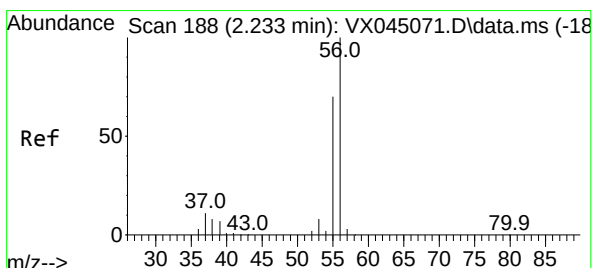
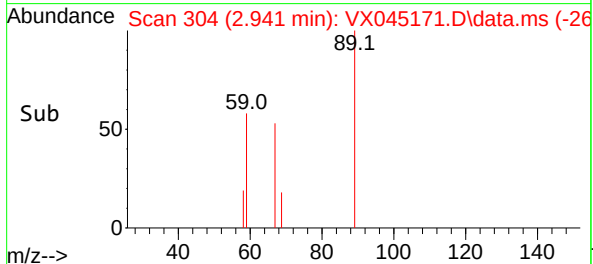
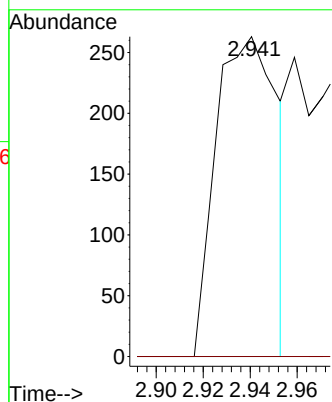
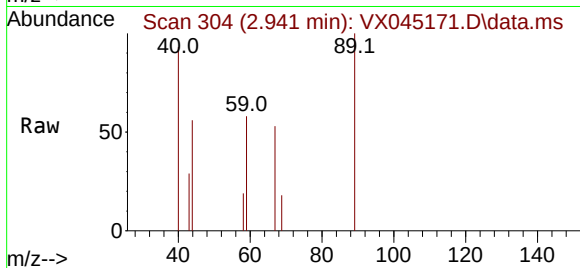
ENV-101-SB02

Tgt Ion: 59 Resp: 478

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#13

Acrolein

Concen: 1.218 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX045171.D

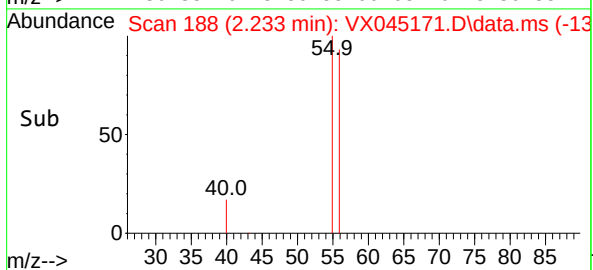
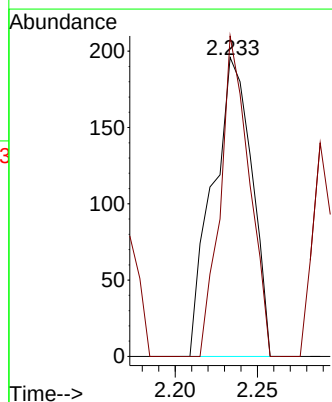
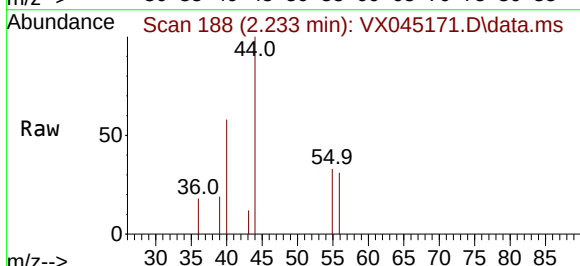
Acq: 06 Mar 2025 16:16

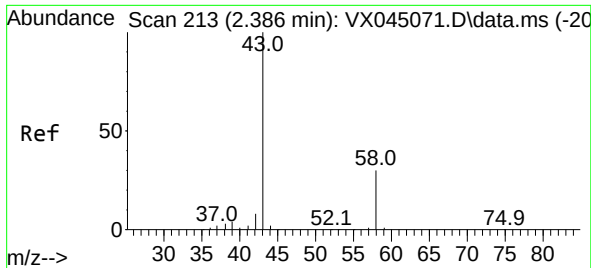
Tgt Ion: 56 Resp: 325

Ion Ratio Lower Upper

56 100

55 79.1 56.2 84.4

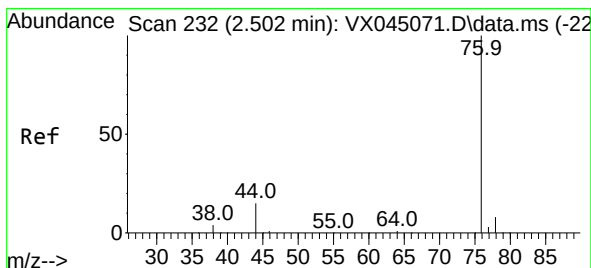
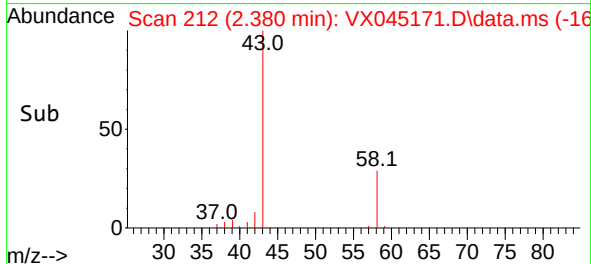
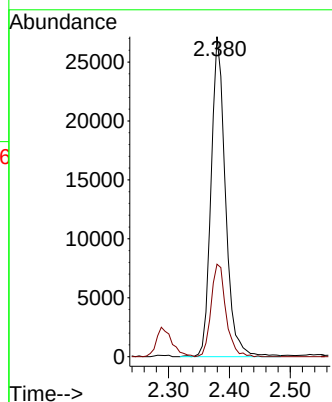
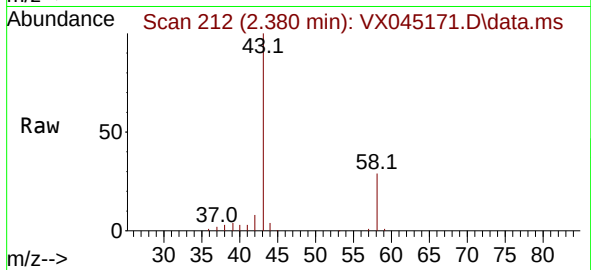




#16
Acetone
Concen: 78.751 ug/l
RT: 2.380 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

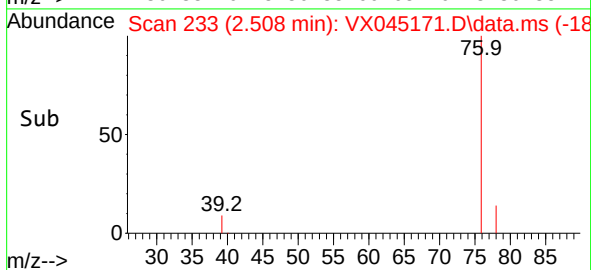
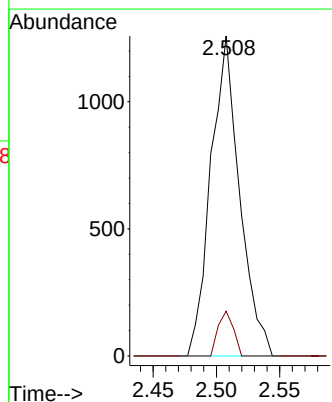
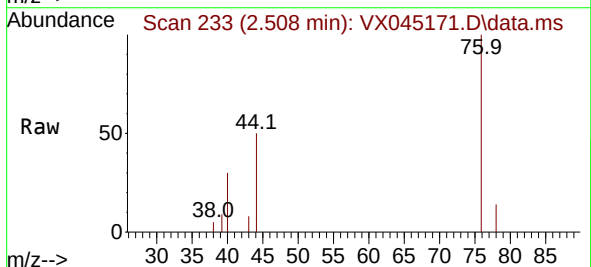
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

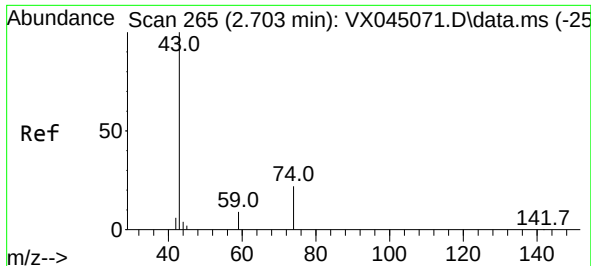
Tgt Ion: 43 Resp: 44531
Ion Ratio Lower Upper
43 100
58 28.9 24.2 36.4



#17
Carbon Disulfide
Concen: 0.796 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.006 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 76 Resp: 1995
Ion Ratio Lower Upper
76 100
78 14.0 6.6 9.8#





#18

Methyl Acetate

Concen: 1.841 ug/l

RT: 2.703 min Scan# 218

Delta R.T. 0.000 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

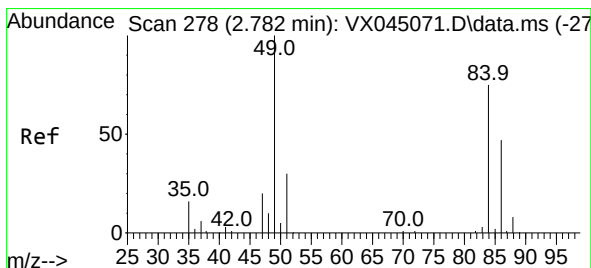
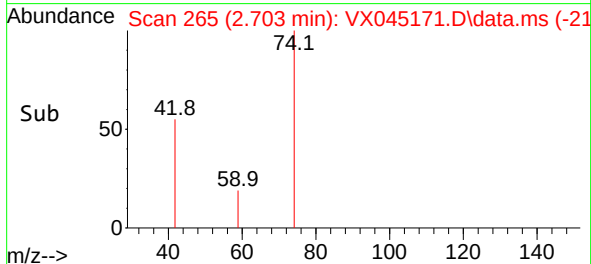
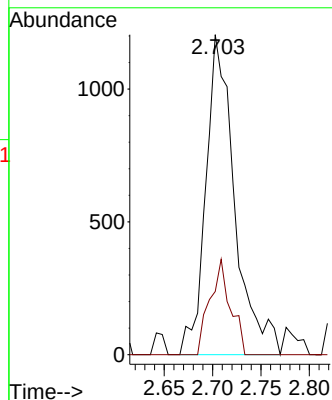
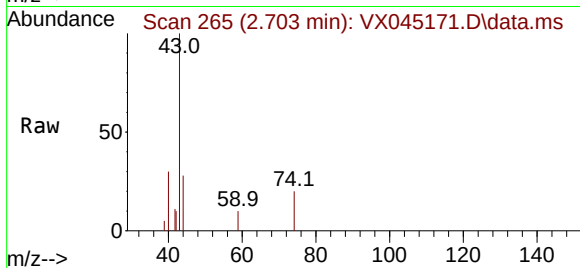
ENV-101-SB02

Tgt Ion: 43 Resp: 2504

Ion Ratio Lower Upper

43 100

74 21.2 17.4 26.2



#20

Methylene Chloride

Concen: 2.141 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Tgt Ion: 84 Resp: 2398

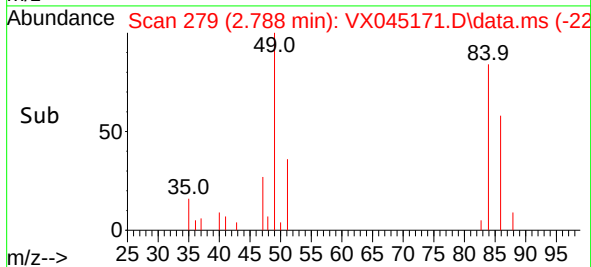
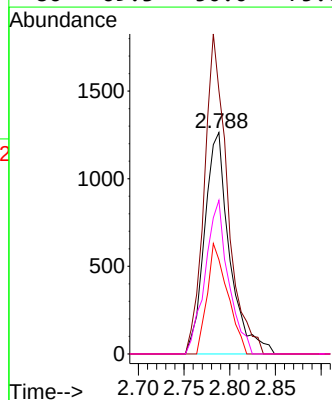
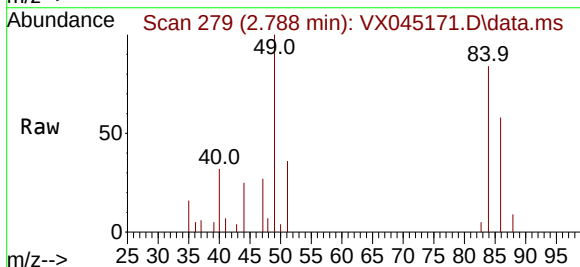
Ion Ratio Lower Upper

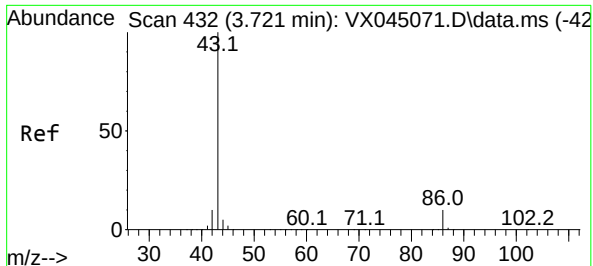
84 100

49 118.9 106.5 159.7

51 42.6 32.1 48.1

86 69.3 50.0 75.0

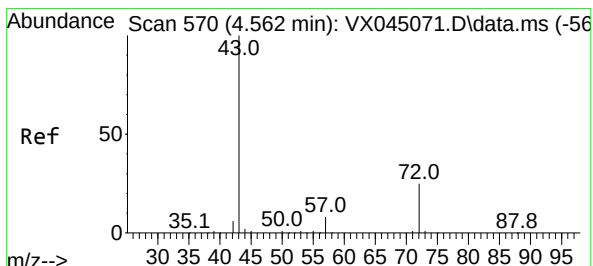
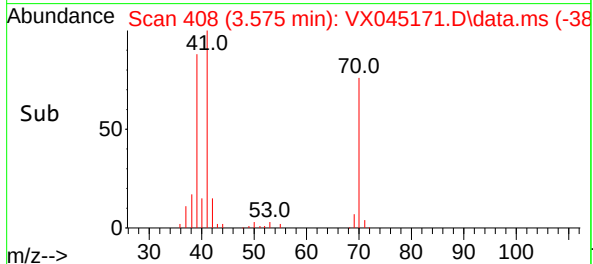
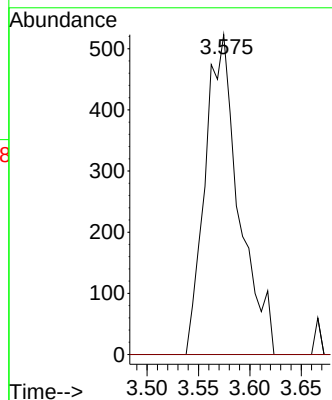
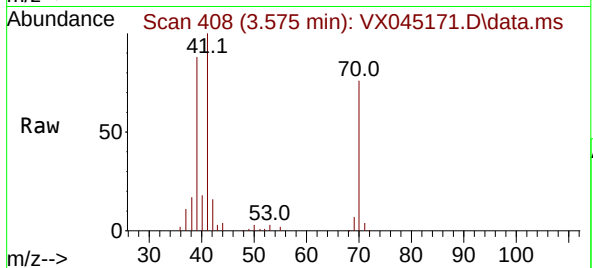




#23
 Vinyl Acetate
 Concen: 0.419 ug/l
 RT: 3.575 min Scan# 408
 Delta R.T. -0.146 min
 Lab File: VX045171.D
 Acq: 06 Mar 2025 16:16

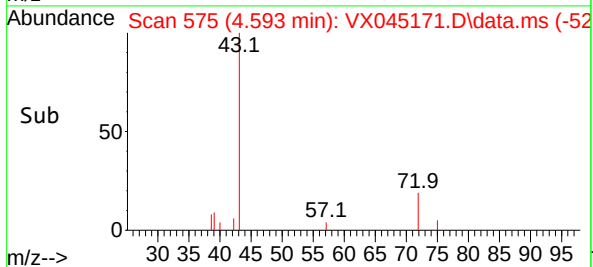
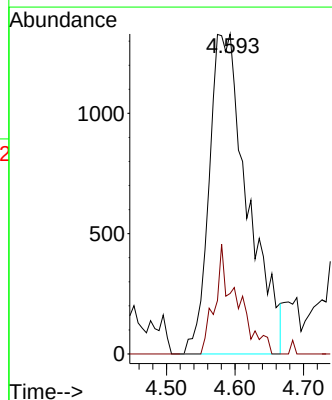
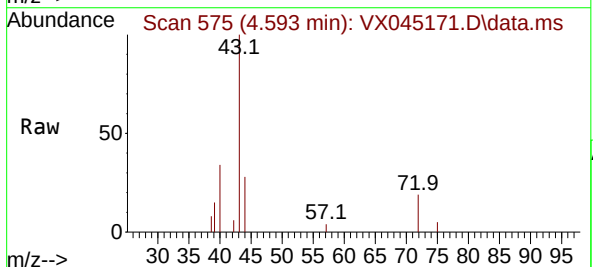
Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-101-SB02

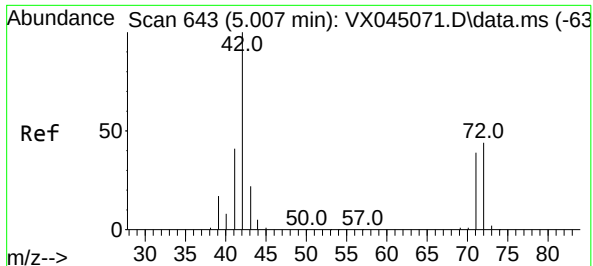
Tgt Ion: 43 Resp: 1193
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.1 12.1#



#25
 2-Butanone
 Concen: 6.078 ug/l
 RT: 4.593 min Scan# 575
 Delta R.T. 0.030 min
 Lab File: VX045171.D
 Acq: 06 Mar 2025 16:16

Tgt Ion: 43 Resp: 5173
 Ion Ratio Lower Upper
 43 100
 72 18.9 20.0 30.0#





#29

Tetrahydrofuran

Concen: 0.215 ug/l

RT: 5.026 min Scan# 643

Delta R.T. 0.018 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB02

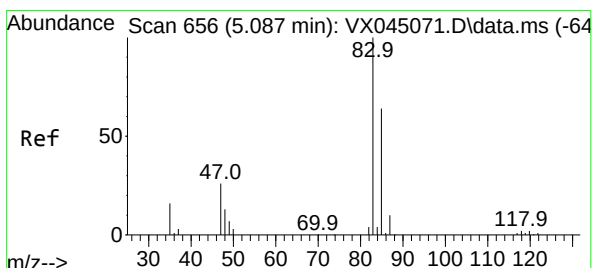
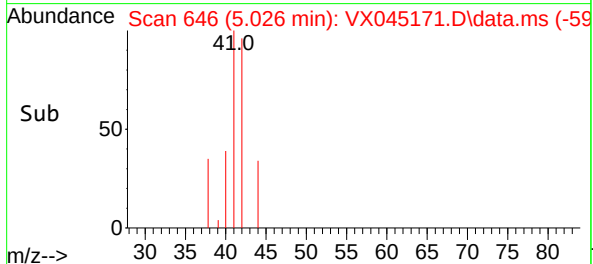
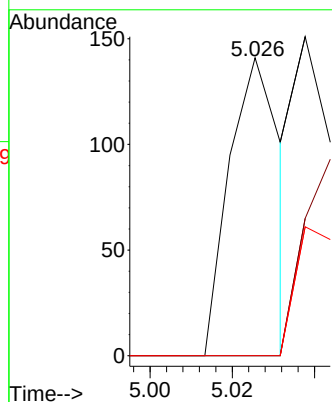
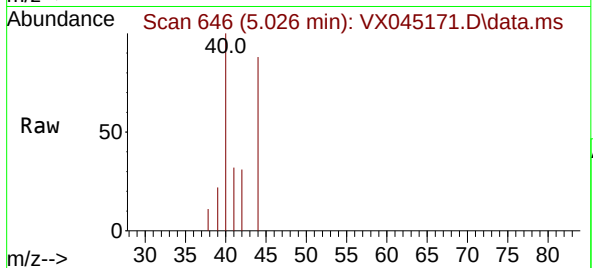
Tgt Ion: 42 Resp: 123

Ion Ratio Lower Upper

42 100

72 0.0 34.1 51.1#

71 0.0 31.4 47.0#



#30

Chloroform

Concen: 0.202 ug/l

RT: 5.099 min Scan# 658

Delta R.T. 0.012 min

Lab File: VX045171.D

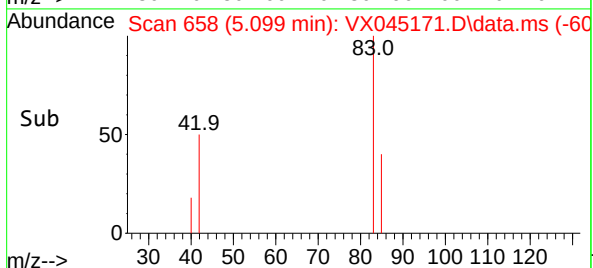
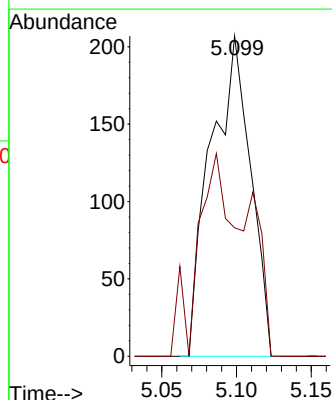
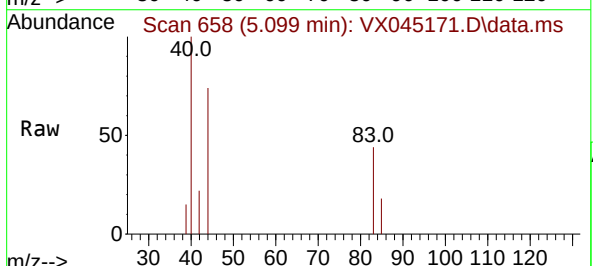
Acq: 06 Mar 2025 16:16

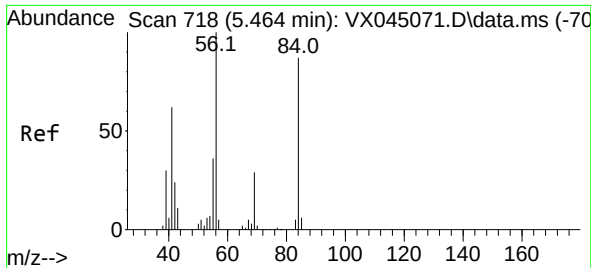
Tgt Ion: 83 Resp: 383

Ion Ratio Lower Upper

83 100

85 40.1 51.4 77.2#

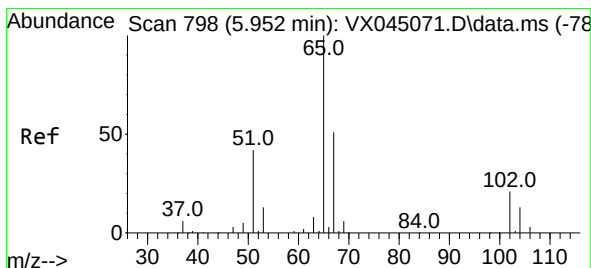
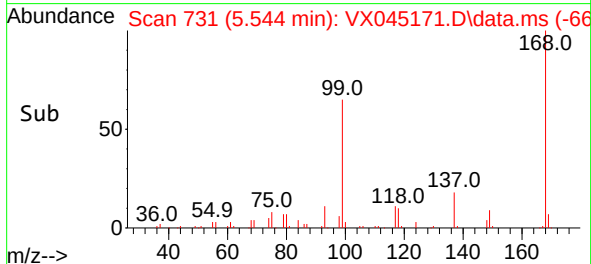
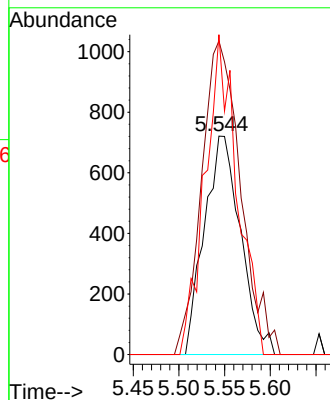
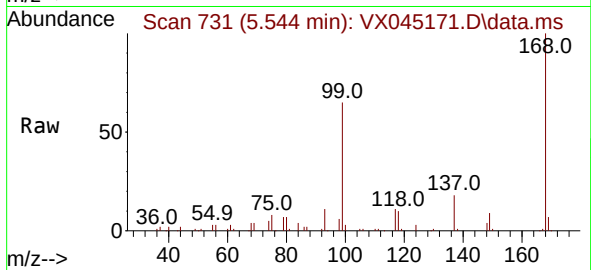




#31
Cyclohexane
Concen: 1.198 ug/l
RT: 5.544 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

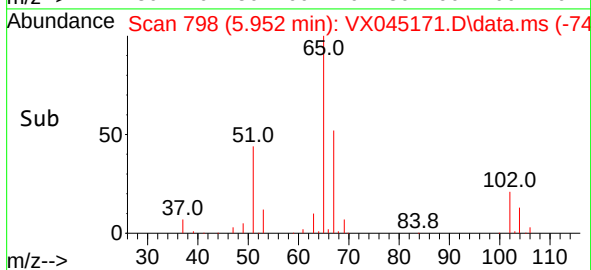
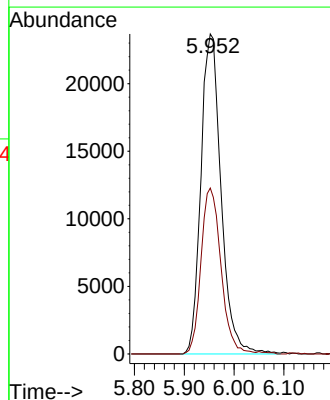
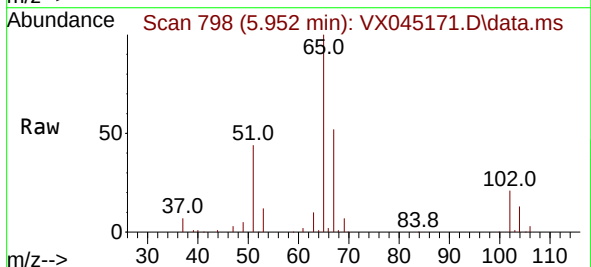
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

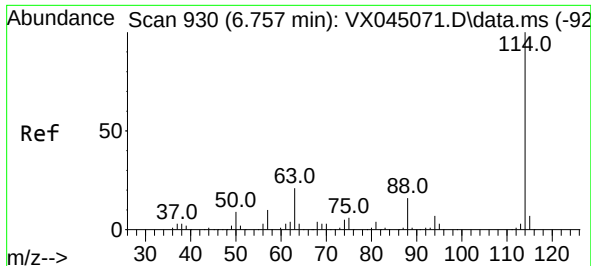
Tgt Ion: 56 Resp: 1987
Ion Ratio Lower Upper
56 100
69 143.6 23.4 35.2#
84 146.5 69.4 104.2#



#33
1,2-Dichloroethane-d4
Concen: 54.595 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 65 Resp: 66538
Ion Ratio Lower Upper
65 100
67 51.2 0.0 106.2

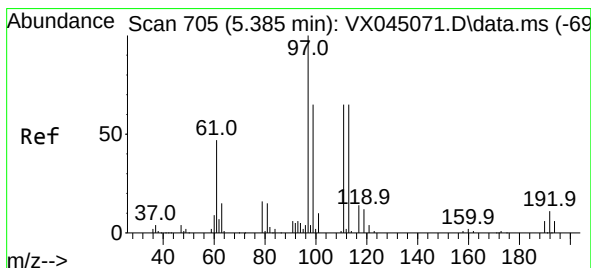
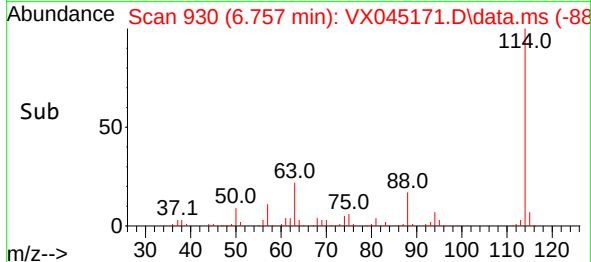
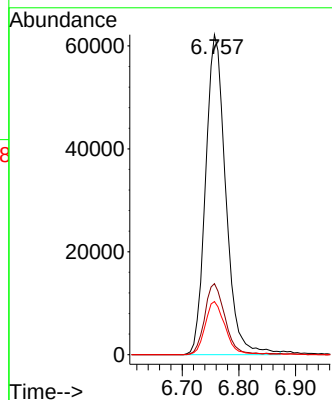
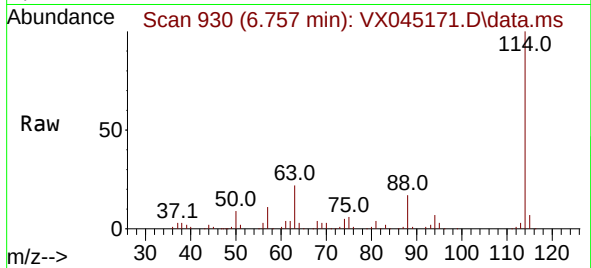




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

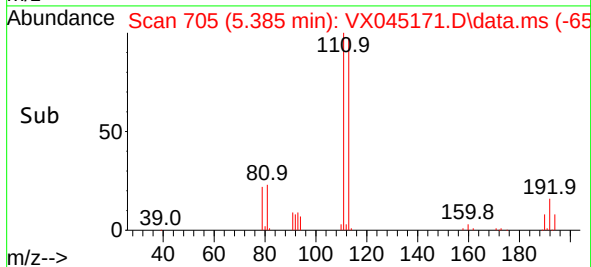
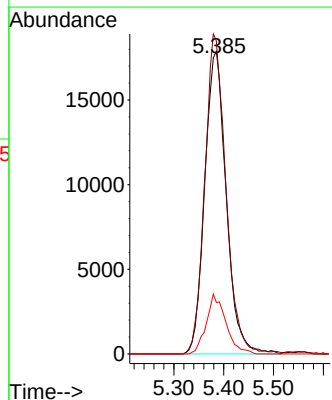
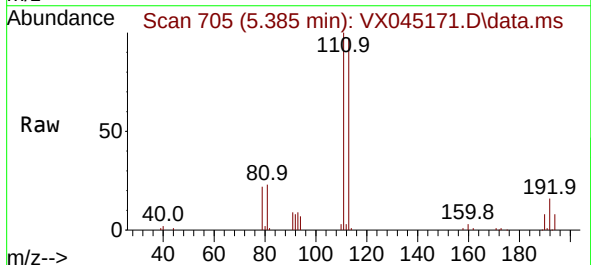
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

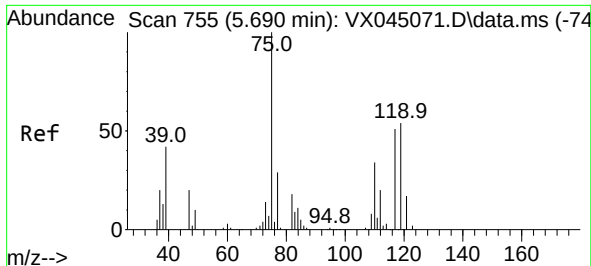
Tgt Ion:114 Resp: 153454
Ion Ratio Lower Upper
114 100
63 22.2 0.0 41.8
88 16.6 0.0 32.8



#35
Dibromofluoromethane
Concen: 52.140 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion:113 Resp: 53501
Ion Ratio Lower Upper
113 100
111 103.6 81.8 122.6
192 18.0 14.3 21.5

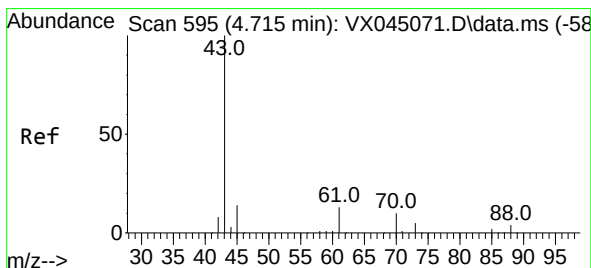
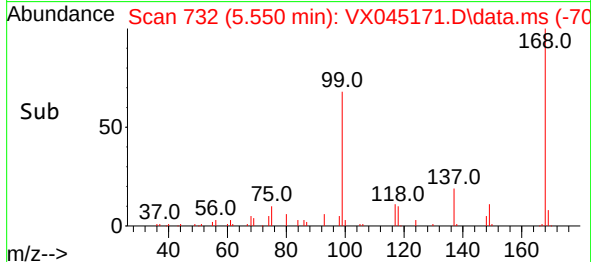
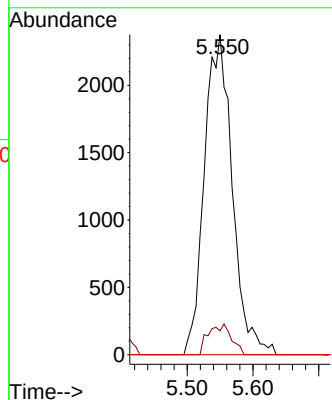
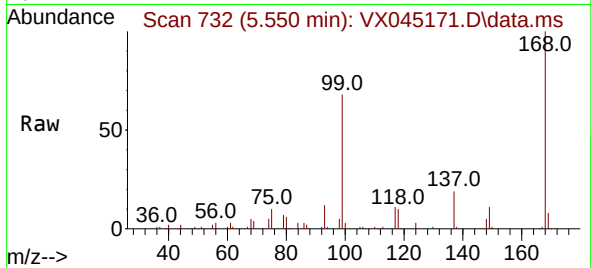




#36
1,1-Dichloropropene
Concen: 4.983 ug/l
RT: 5.550 min Scan# 712
Delta R.T. -0.140 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

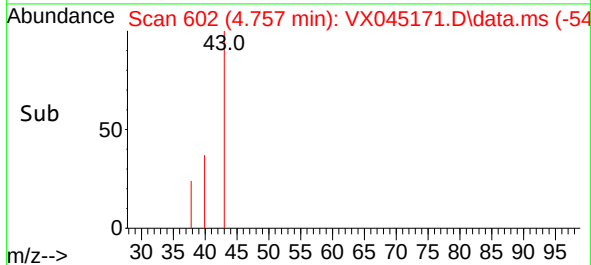
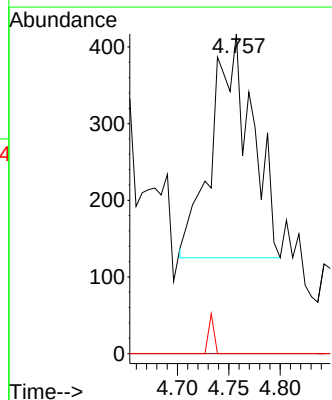
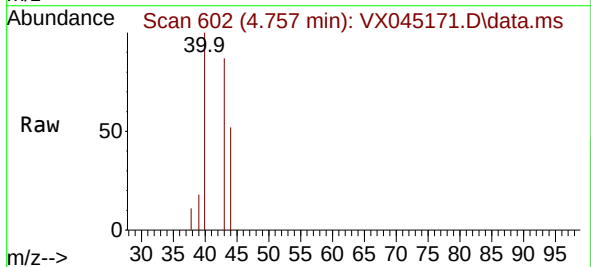
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

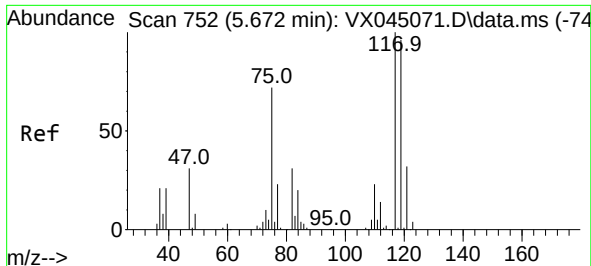
Tgt Ion: 75 Resp: 7012
Ion Ratio Lower Upper
75 100
110 7.9 16.9 50.6#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 0.438 ug/l
RT: 4.757 min Scan# 602
Delta R.T. 0.043 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

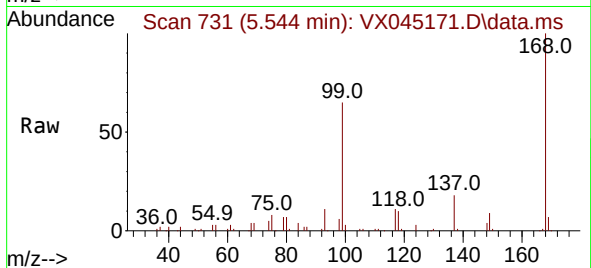
Tgt Ion: 43 Resp: 795
Ion Ratio Lower Upper
43 100
61 0.0 10.8 16.2#
70 0.0 7.7 11.5#



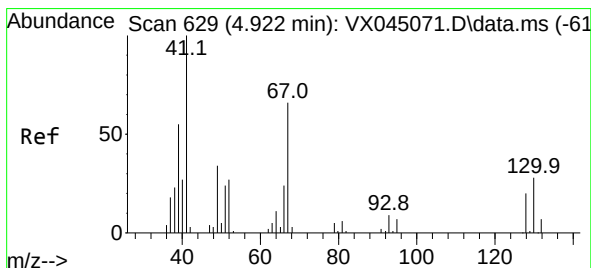
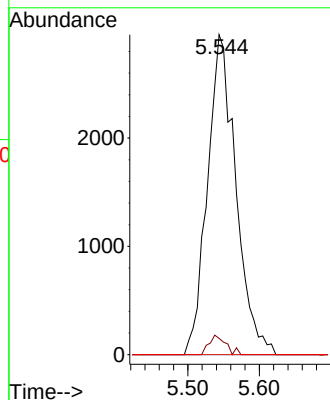
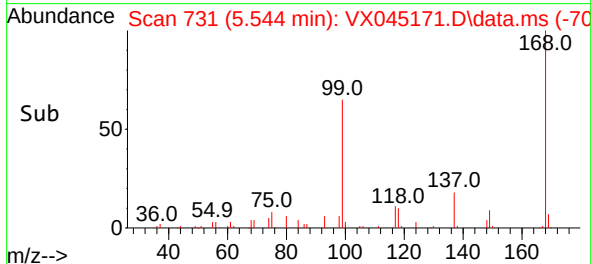


#38
Carbon Tetrachloride
Concen: 5.705 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

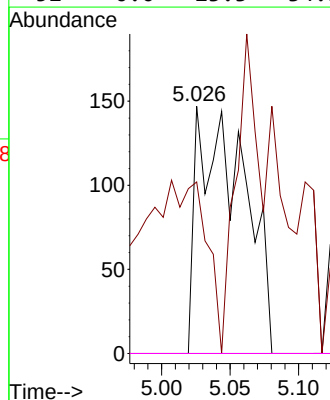
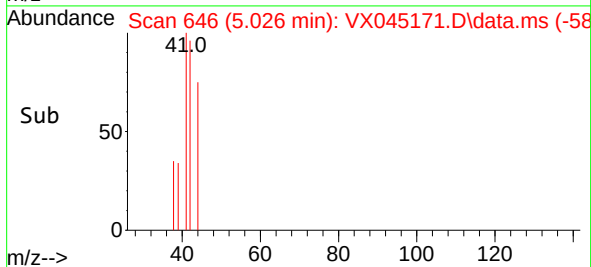
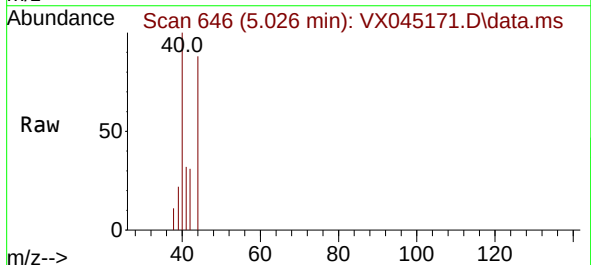


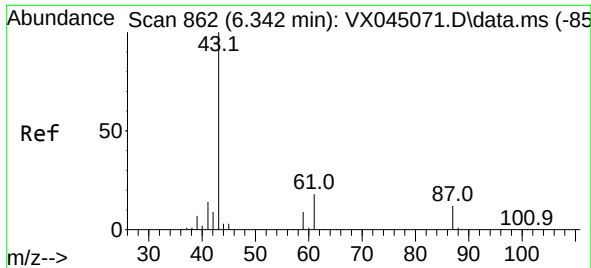
Tgt Ion:117 Resp: 8150
Ion Ratio Lower Upper
117 100
119 5.1 76.7 115.1#
121 0.0 25.5 38.3#



#41
Methacrylonitrile
Concen: 0.360 ug/l
RT: 5.026 min Scan# 646
Delta R.T. 0.104 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 41 Resp: 353
Ion Ratio Lower Upper
41 100
39 79.0 44.6 67.0#
67 0.0 53.9 80.9#
52 0.0 23.3 34.9#

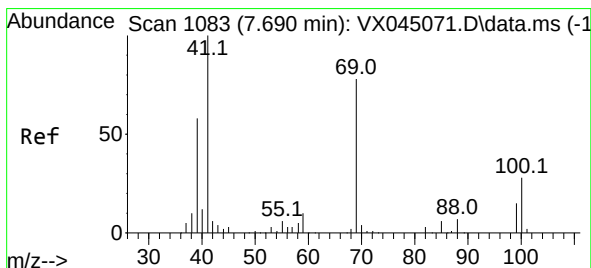
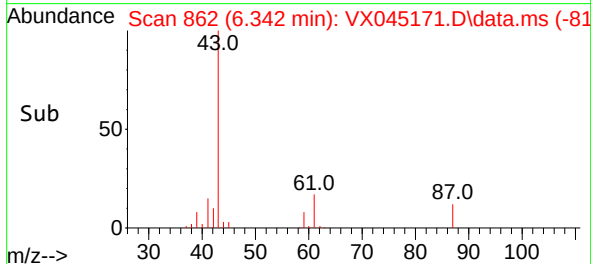
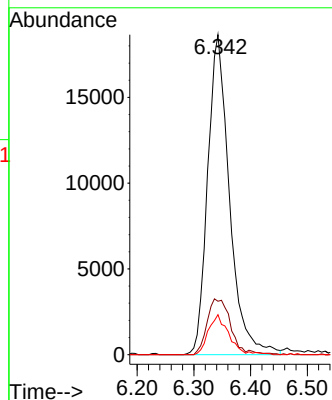
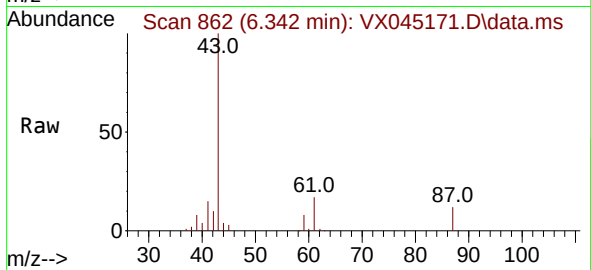




#43
Isopropyl Acetate
Concen: 18.597 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

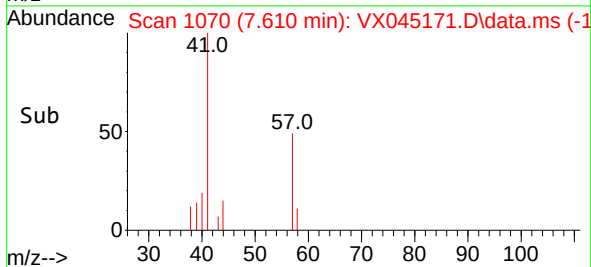
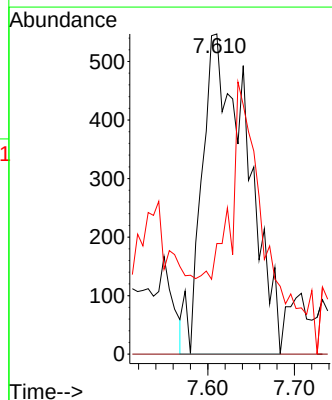
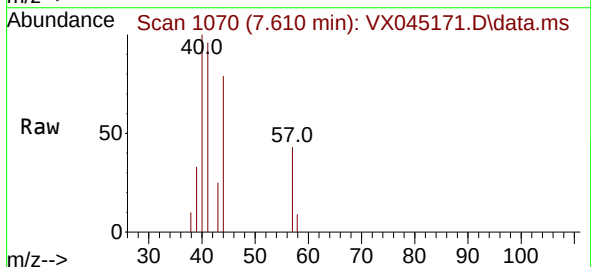
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

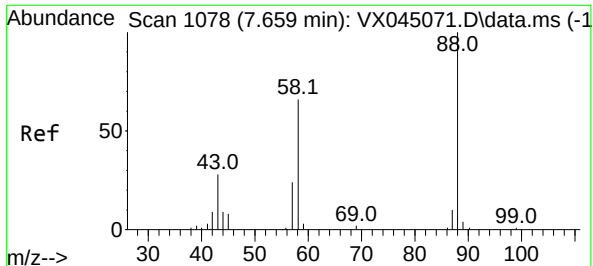
Tgt Ion: 43 Resp: 49863
Ion Ratio Lower Upper
43 100
61 18.9 14.9 22.3
87 11.8 9.4 14.2



#48
Methyl methacrylate
Concen: 1.479 ug/l
RT: 7.610 min Scan# 1070
Delta R.T. -0.079 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 41 Resp: 1989
Ion Ratio Lower Upper
41 100
69 0.0 63.0 94.6#
39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 2.079 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.134 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

ENV-101-SB02

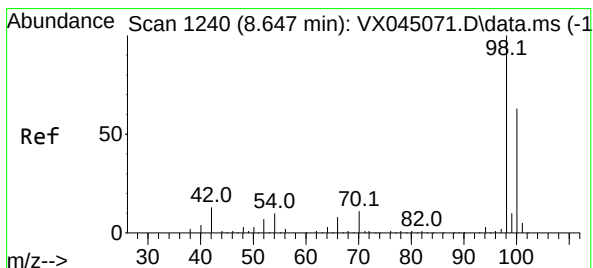
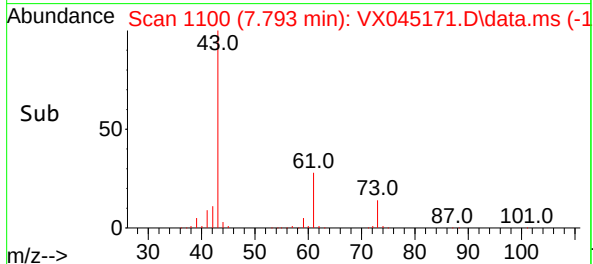
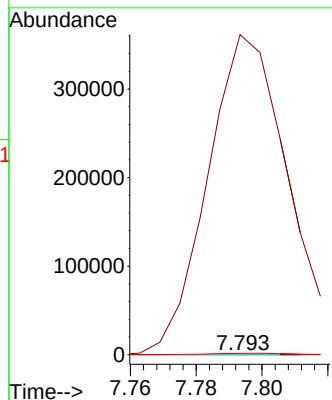
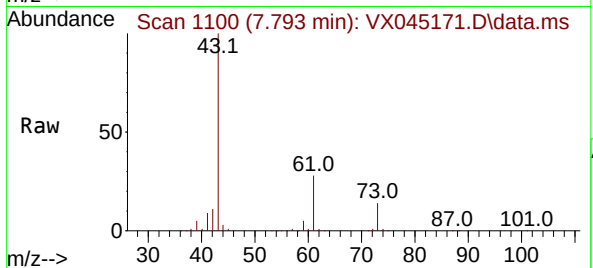
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 1089322.0 28.7 43.1#

58 4891.5 55.8 83.8#



#50

Toluene-d8

Concen: 53.215 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX045171.D

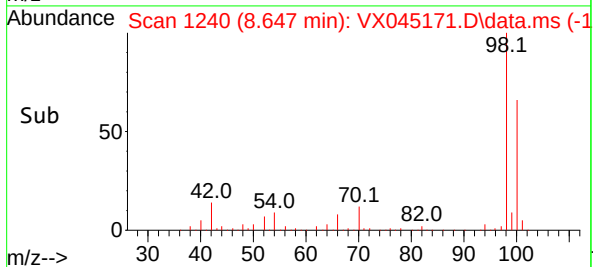
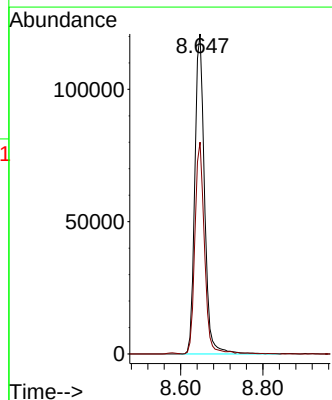
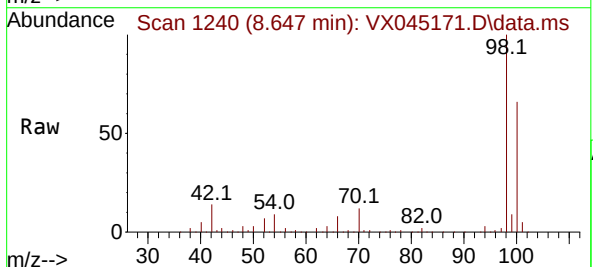
Acq: 06 Mar 2025 16:16

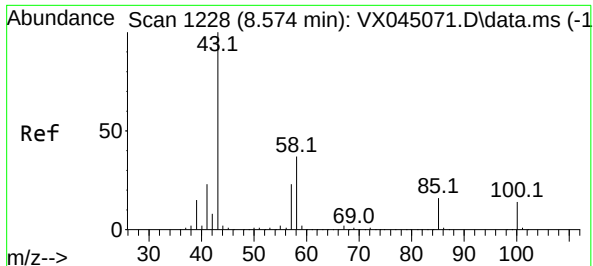
Tgt Ion: 98 Resp: 197961

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0

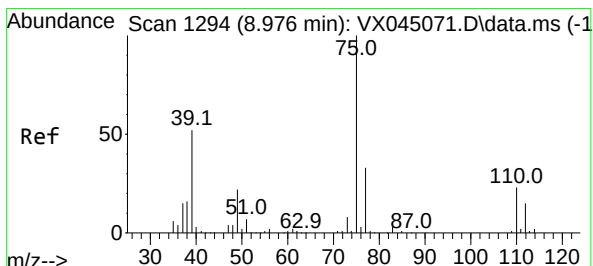
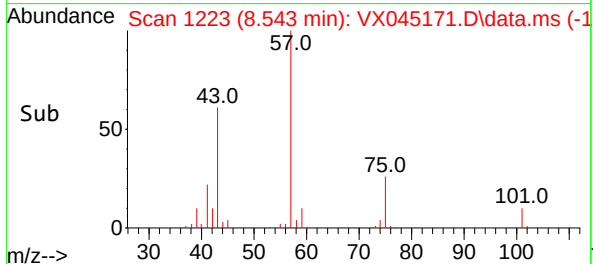
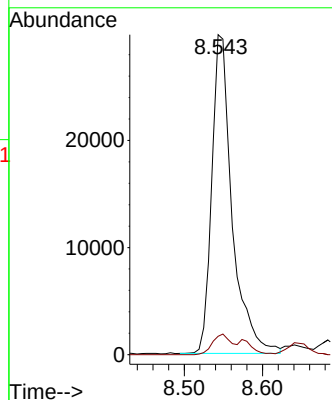
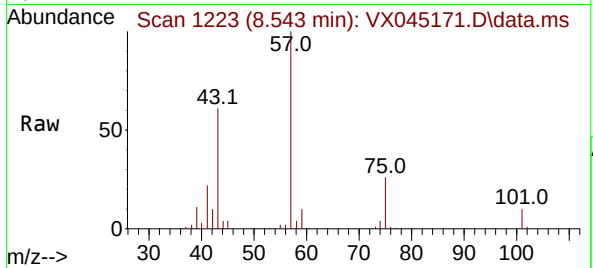




#51
4-Methyl-2-Pentanone
Concen: 29.813 ug/l
RT: 8.543 min Scan# 11
Delta R.T. -0.030 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

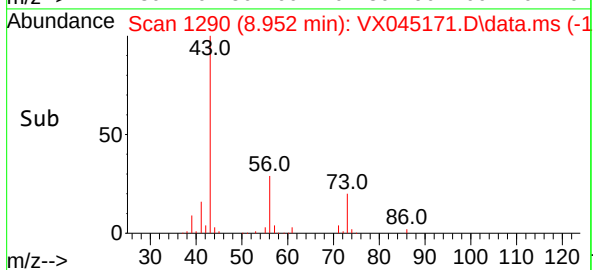
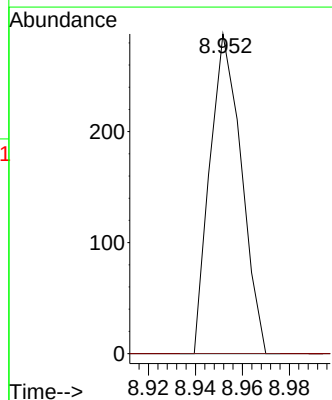
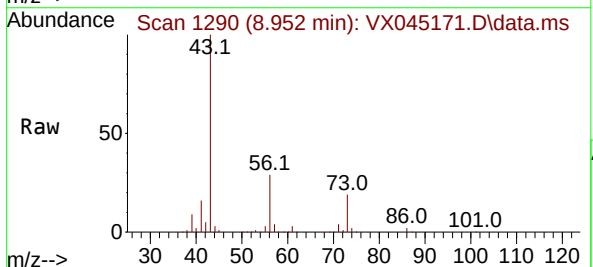
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

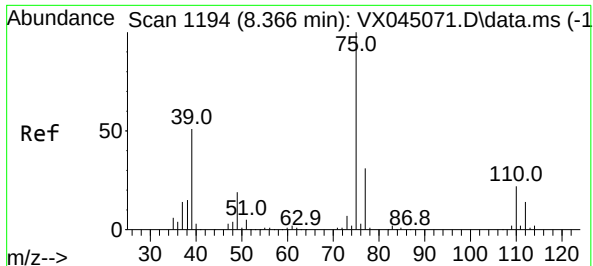
Tgt Ion: 43 Resp: 53674
Ion Ratio Lower Upper
43 100
58 6.2 29.2 43.8#



#53
t-1,3-Dichloropropene
Concen: 0.202 ug/l
RT: 8.952 min Scan# 1290
Delta R.T. -0.024 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 75 Resp: 268
Ion Ratio Lower Upper
75 100
77 0.0 26.5 39.7#

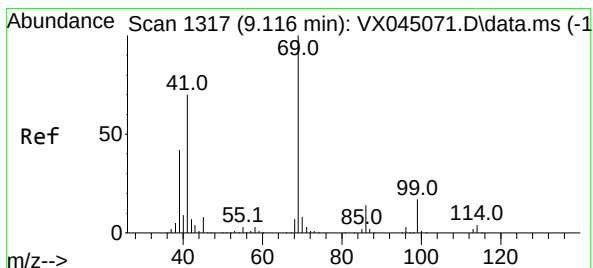
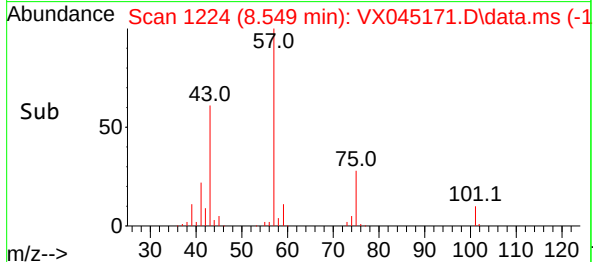
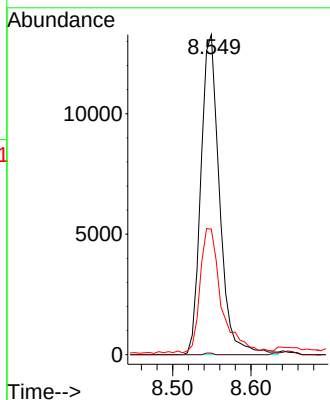
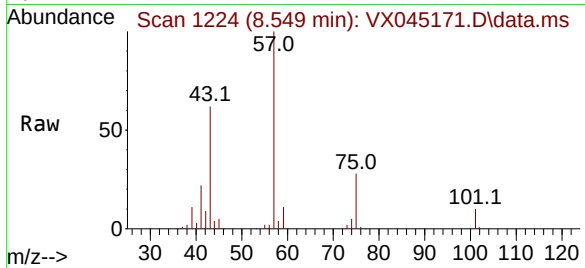




#54
 cis-1,3-Dichloropropene
 Concen: 14.223 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX045171.D
 Acq: 06 Mar 2025 16:16

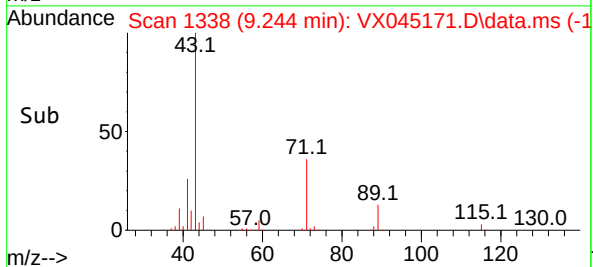
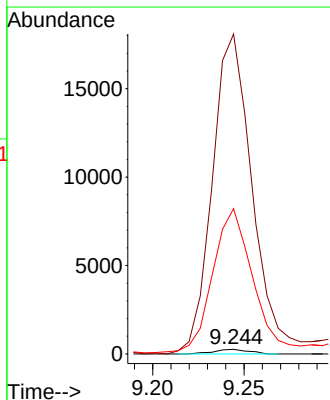
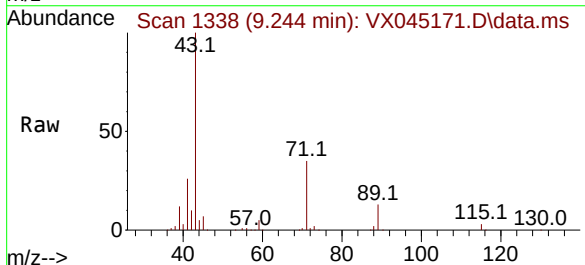
Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-101-SB02

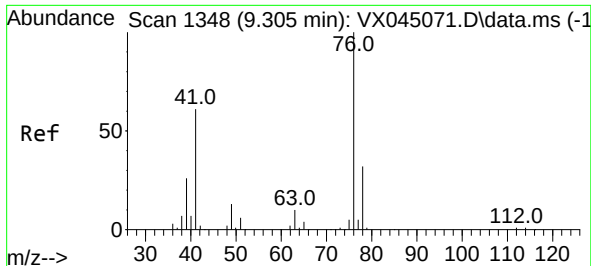
Tgt Ion: 75 Resp: 21963
 Ion Ratio Lower Upper
 75 100
 77 0.5 24.7 37.1#
 39 38.1 40.7 61.1#



#56
 Ethyl methacrylate
 Concen: 0.213 ug/l
 RT: 9.244 min Scan# 1338
 Delta R.T. 0.128 min
 Lab File: VX045171.D
 Acq: 06 Mar 2025 16:16

Tgt Ion: 69 Resp: 347
 Ion Ratio Lower Upper
 69 100
 41 8013.8 57.0 85.4#
 39 3593.4 34.2 51.4#





#57

1,3-Dichloropropane

Concen: 1.425 ug/l

RT: 9.476 min Scan# 1376

Delta R.T. 0.171 min

Lab File: VX045171.D

Acq: 06 Mar 2025 16:16

Instrument :

MSVOA_X

ClientSampleId :

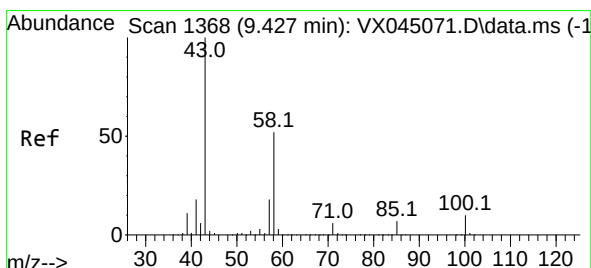
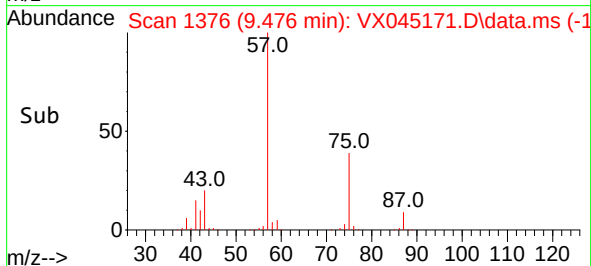
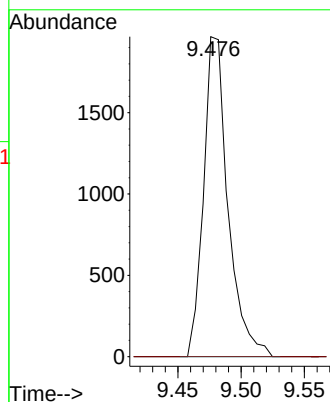
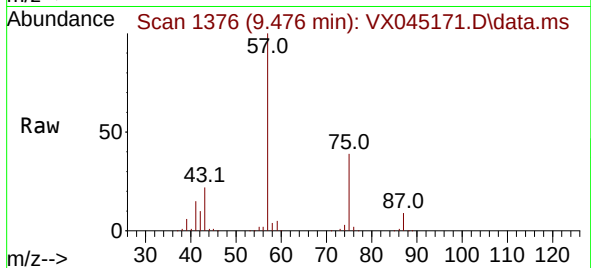
ENV-101-SB02

Tgt Ion: 76 Resp: 2646

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 39.504 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX045171.D

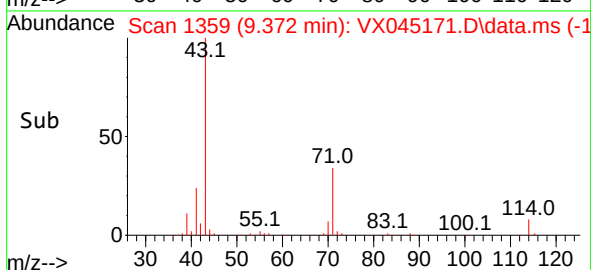
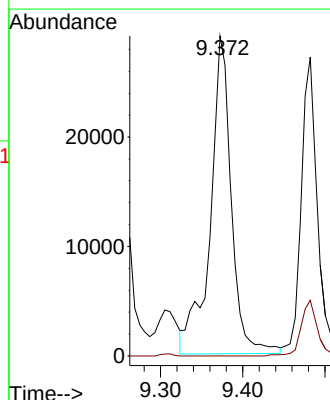
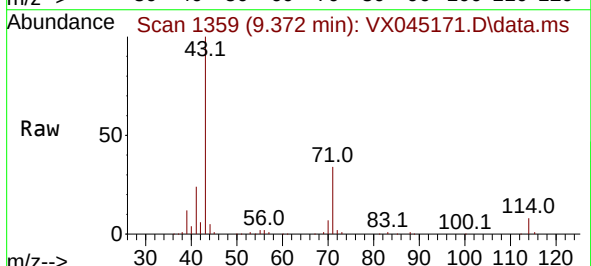
Acq: 06 Mar 2025 16:16

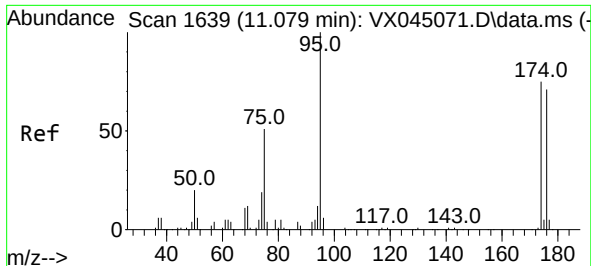
Tgt Ion: 43 Resp: 51530

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.6#

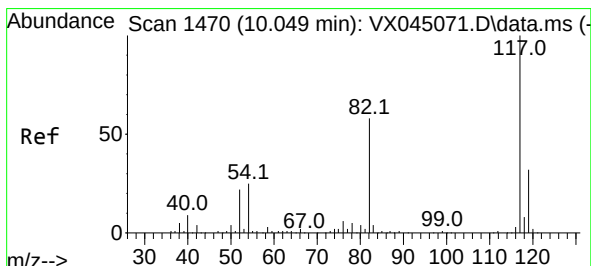
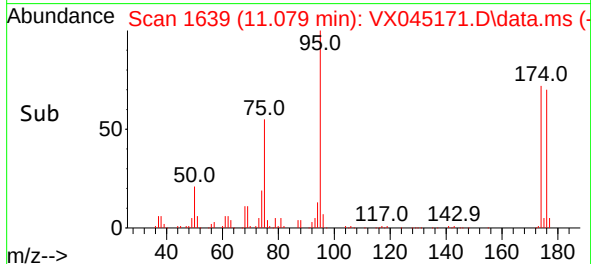
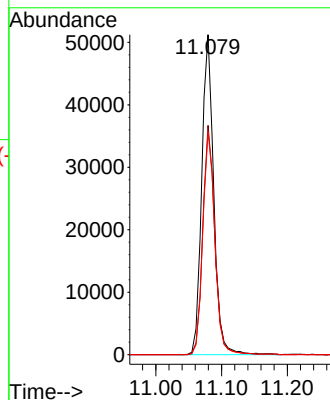
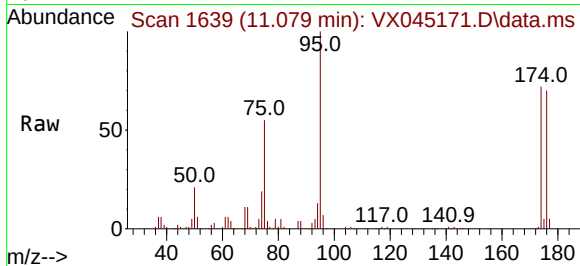




#62
4-Bromofluorobenzene
Concen: 52.633 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

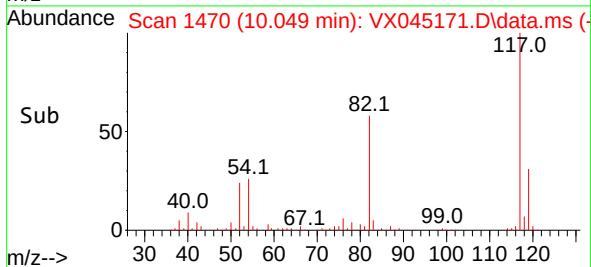
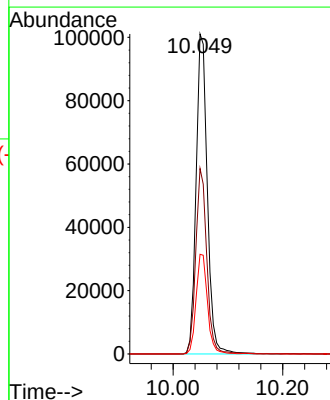
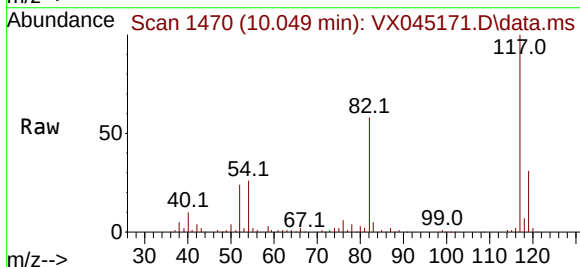
Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

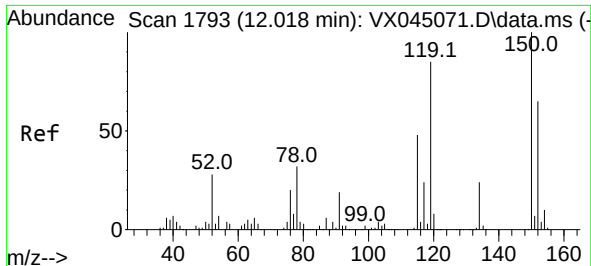
Tgt Ion: 95 Resp: 64881
Ion Ratio Lower Upper
95 100
174 71.7 0.0 148.2
176 70.0 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 117 Resp: 144581
Ion Ratio Lower Upper
117 100
82 57.9 46.3 69.5
119 31.2 25.7 38.5

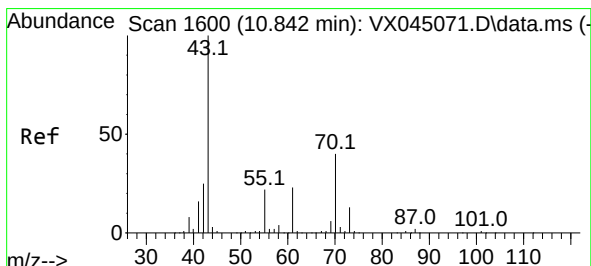
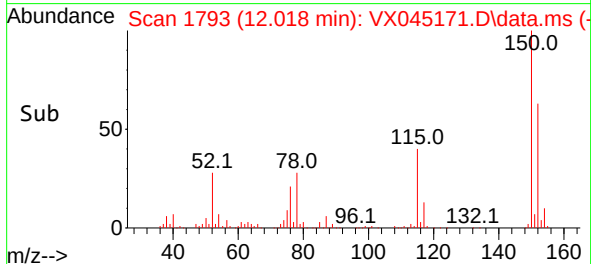
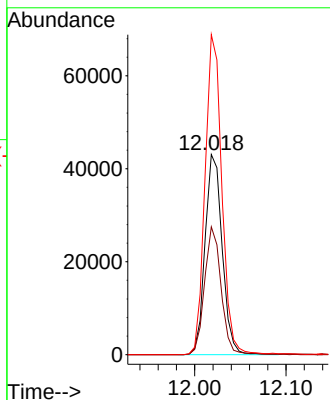
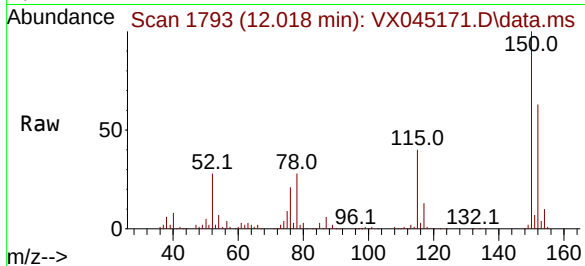




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX045171.D
 Acq: 06 Mar 2025 16:16

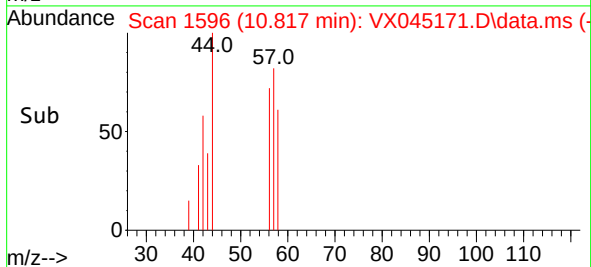
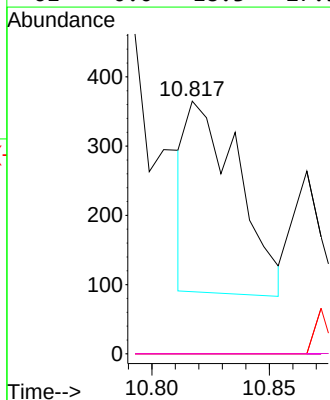
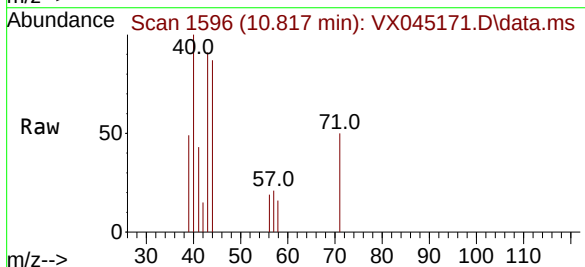
Instrument :
 MSVOA_X
 ClientSampleId :
 ENV-101-SB02

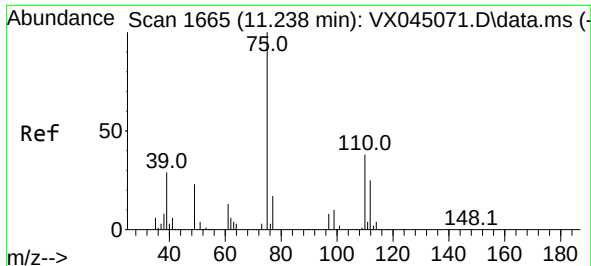
Tgt Ion:152 Resp: 55987
 Ion Ratio Lower Upper
 152 100
 115 61.4 44.2 132.6
 150 156.3 0.0 349.0



#74
 N-ethyl acetate
 Concen: 0.205 ug/l
 RT: 10.817 min Scan# 1596
 Delta R.T. -0.024 min
 Lab File: VX045171.D
 Acq: 06 Mar 2025 16:16

Tgt Ion: 43 Resp: 421
 Ion Ratio Lower Upper
 43 100
 70 0.0 31.8 47.6#
 55 0.0 18.3 27.5#
 61 0.0 18.3 27.5#

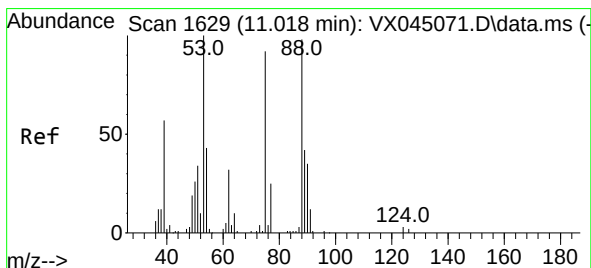
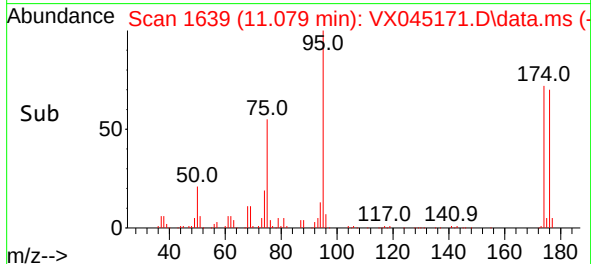
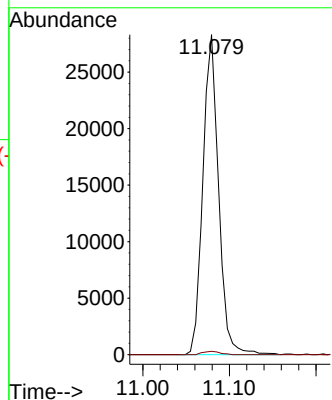
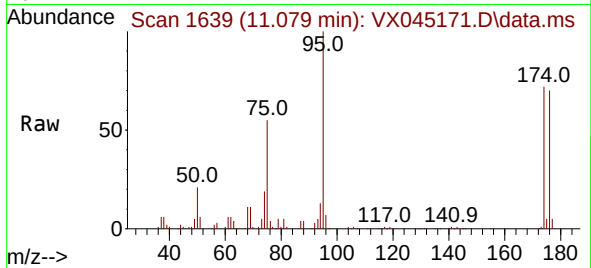




#76
1,2,3-Trichloropropane
Concen: 27.390 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Instrument :
MSVOA_X
ClientSampleId :
ENV-101-SB02

Tgt Ion: 75 Resp: 35692
Ion Ratio Lower Upper
75 100
77 1.2 20.7 62.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.734 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045171.D
Acq: 06 Mar 2025 16:16

Tgt Ion: 75 Resp: 35692
Ion Ratio Lower Upper
75 100
53 0.0 88.5 132.7#
89 0.0 36.2 54.4#

