

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
 Data File : VX046224.D
 Acq On : 15 May 2025 19:15
 Operator : JC/MD
 Sample : Q2038-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 72-11991

Quant Time: May 16 01:10:43 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)

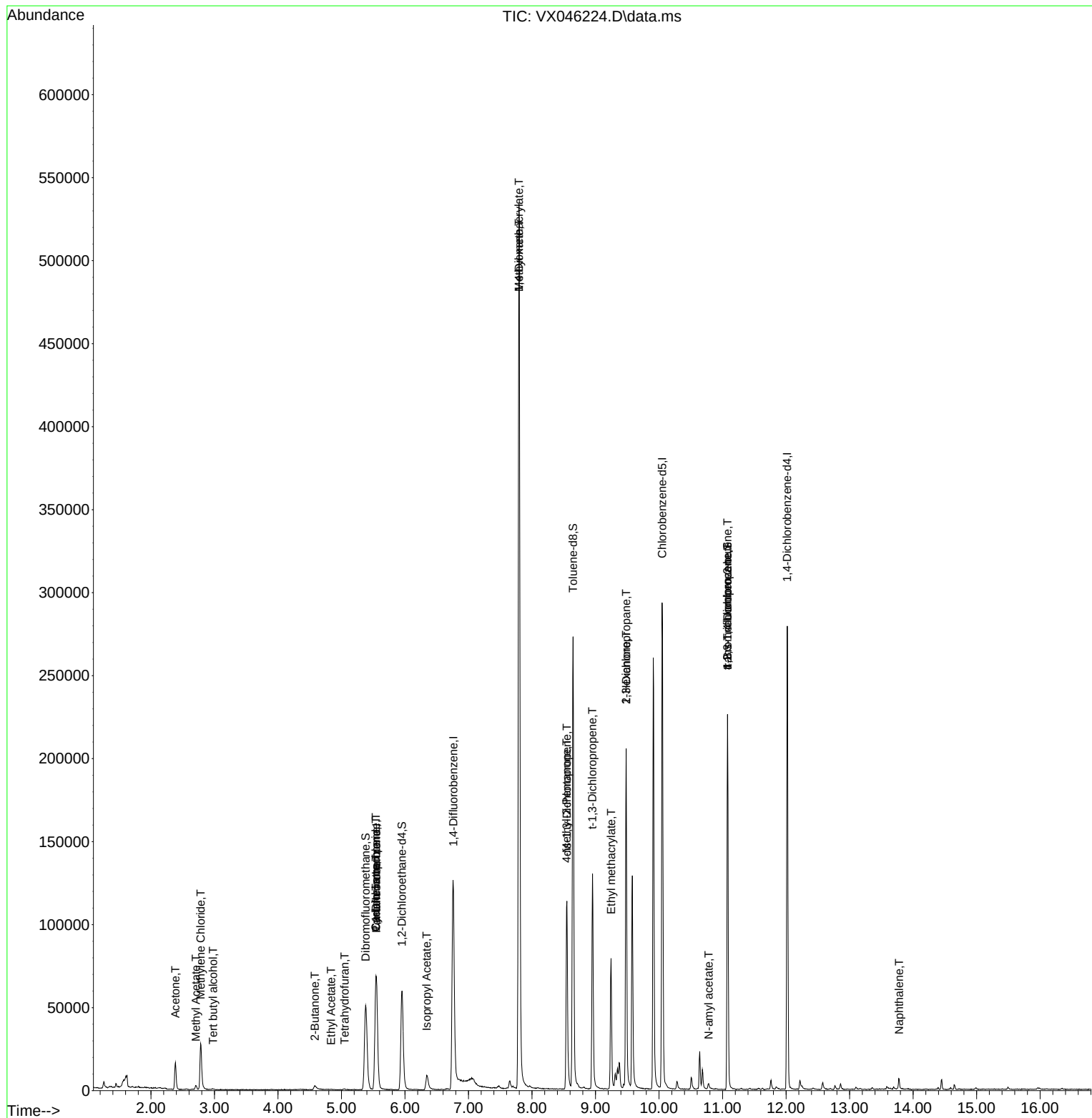
Internal Standards						
1) Pentafluorobenzene	5.550	168	59269	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	119771	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	118520	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51396	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62448	56.516	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.040%			
35) Dibromofluoromethane	5.379	113	45435	52.680	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.360%			
50) Toluene-d8	8.647	98	154547	51.772	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.540%			
62) 4-Bromofluorobenzene	11.079	95	59915	52.325	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.640%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.977	59	712	4.590	ug/l #	72
16) Acetone	2.386	43	18413	41.561	ug/l	97
18) Methyl Acetate	2.709	43	3544	3.447	ug/l	98
20) Methylene Chloride	2.782	84	12997	15.309	ug/l	96
25) 2-Butanone	4.580	43	4981	7.744	ug/l #	86
29) Tetrahydrofuran	5.050	42	363	0.901	ug/l #	61
31) Cyclohexane	5.544	56	1762	1.338	ug/l #	20
36) 1,1-Dichloropropene	5.544	75	5982	5.162	ug/l #	51
37) Ethyl Acetate	4.836	43	288	0.201	ug/l #	70
38) Carbon Tetrachloride	5.544	117	7262	5.577	ug/l #	16
43) Isopropyl Acetate	6.342	43	13944	6.384	ug/l	95
48) Methyl methacrylate	7.793	41	53520	47.979	ug/l #	49
49) 1,4-Dioxane	7.793	88	23	1.086	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	44760	30.873	ug/l #	52
53) t-1,3-Dichloropropene	8.952	75	243	0.209	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	17577	13.646	ug/l #	64
56) Ethyl methacrylate	9.244	69	304	0.232	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	1599	1.085	ug/l #	42
59) 2-Hexanone	9.482	43	29991	27.960	ug/l #	53
74) N-amyl acetate	10.781	43	2730	1.381	ug/l #	49
76) 1,2,3-Trichloropropane	11.079	75	34982	28.277	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	34982	92.060	ug/l #	1
95) Naphthalene	13.780	128	4542	1.267	ug/l #	97

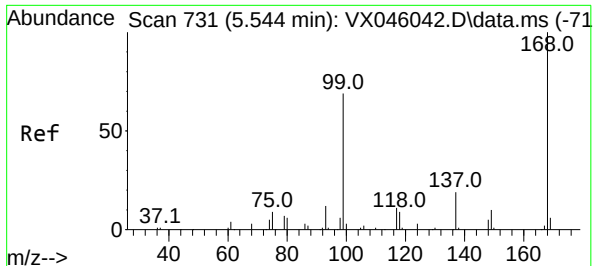
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051525\
Data File : VX046224.D
Acq On : 15 May 2025 19:15
Operator : JC/MD
Sample : Q2038-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
72-11991

Quant Time: May 16 01:10:43 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

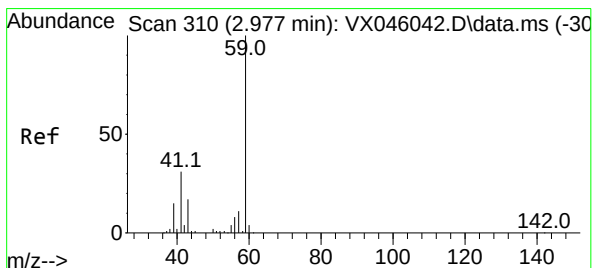
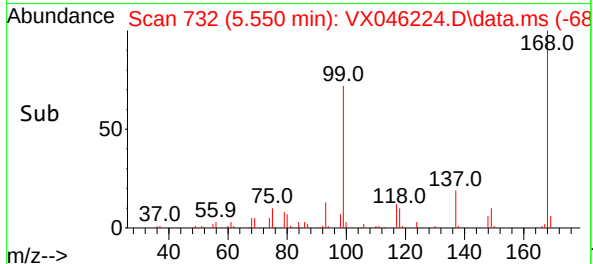
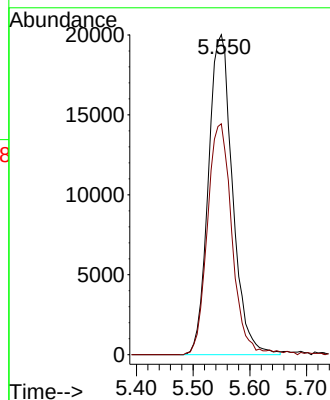
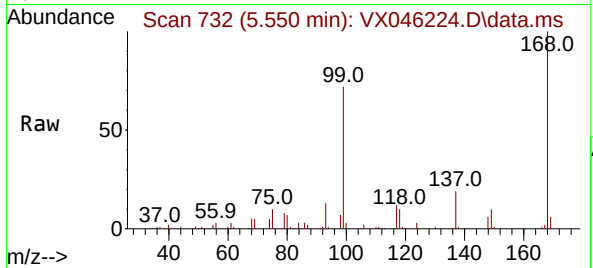




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

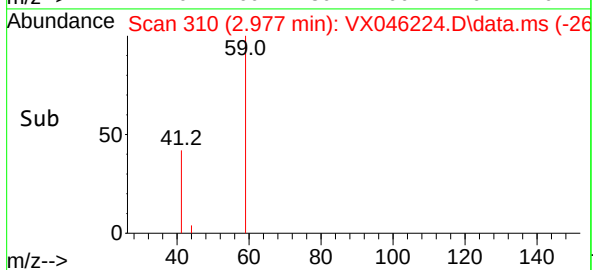
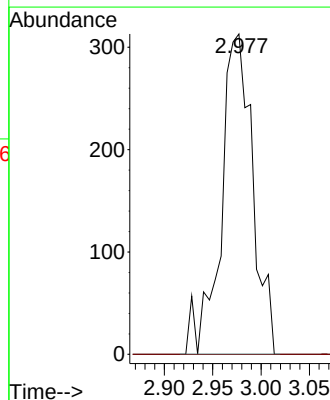
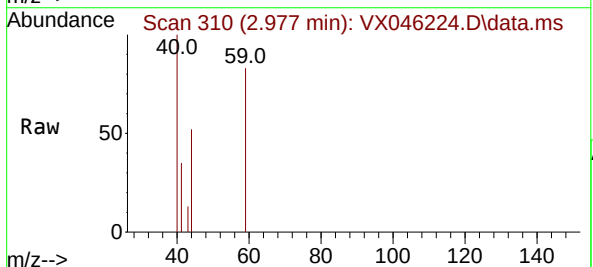
Instrument :
MSVOA_X
ClientSampleId :
72-11991

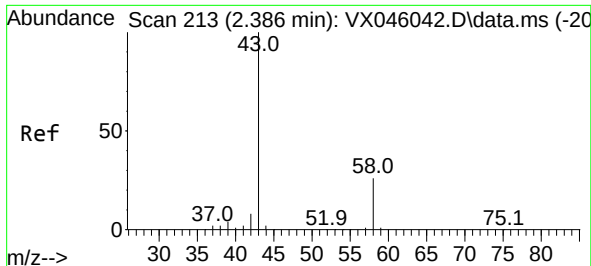
Tgt Ion:168 Resp: 59269
Ion Ratio Lower Upper
168 100
99 72.2 54.9 82.3



#11
Tert butyl alcohol
Concen: 4.590 ug/l
RT: 2.977 min Scan# 310
Delta R.T. -0.000 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Tgt Ion: 59 Resp: 712
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

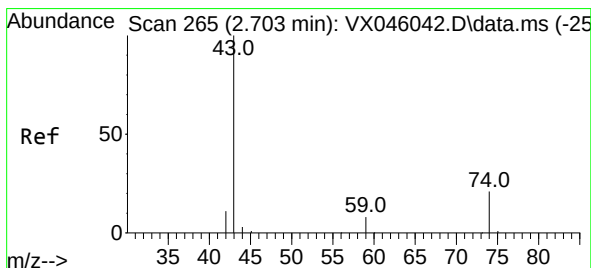
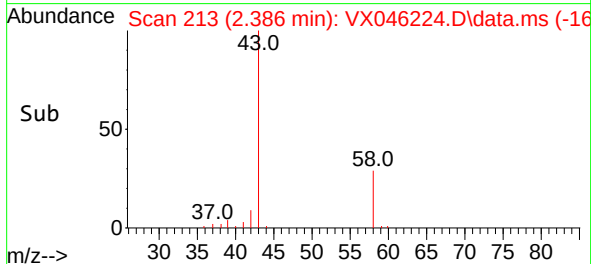
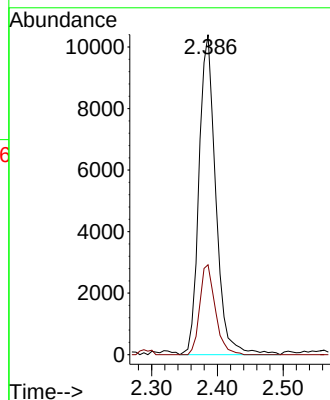
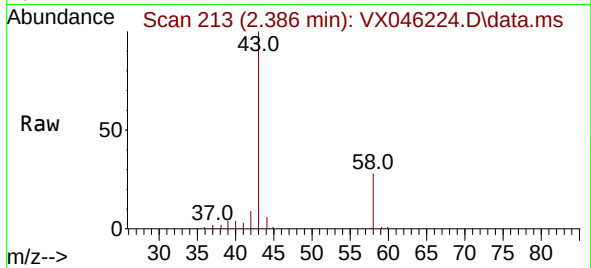




#16
Acetone
Concen: 41.561 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

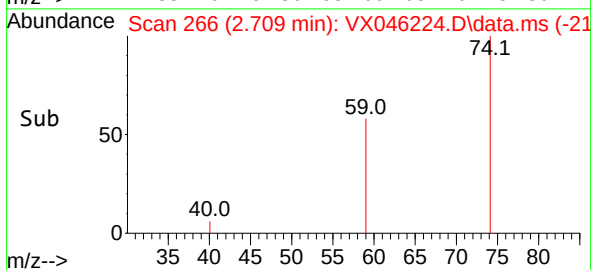
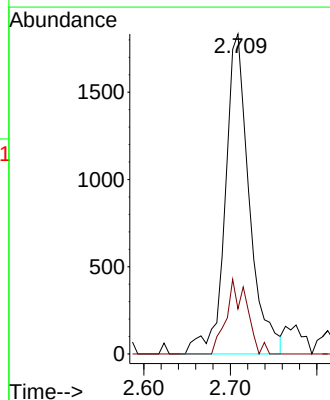
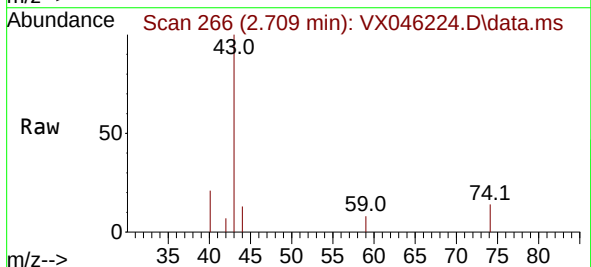
Instrument :
MSVOA_X
ClientSampleId :
72-11991

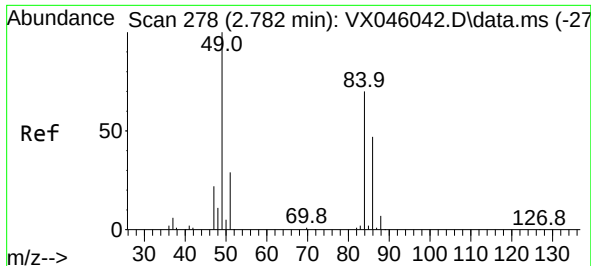
Tgt Ion: 43 Resp: 18413
Ion Ratio Lower Upper
43 100
58 28.1 21.2 31.8



#18
Methyl Acetate
Concen: 3.447 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Tgt Ion: 43 Resp: 3544
Ion Ratio Lower Upper
43 100
74 20.0 16.7 25.1

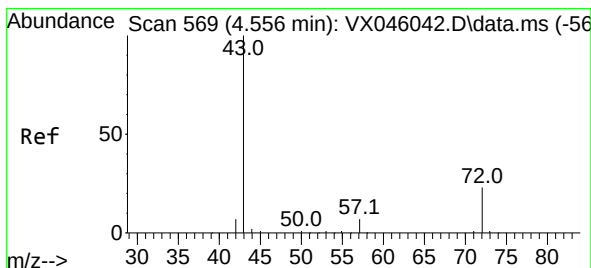
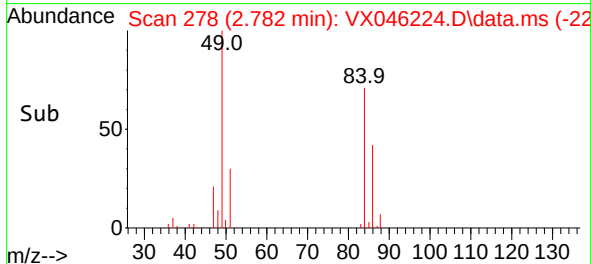
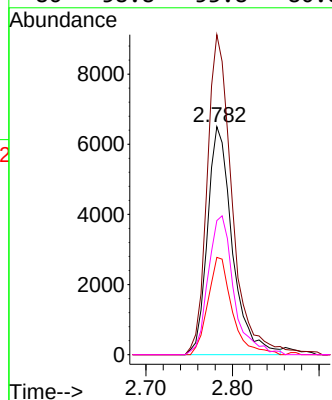
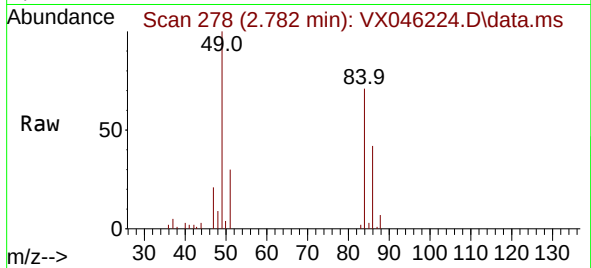




#20
Methylene Chloride
Concen: 15.309 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

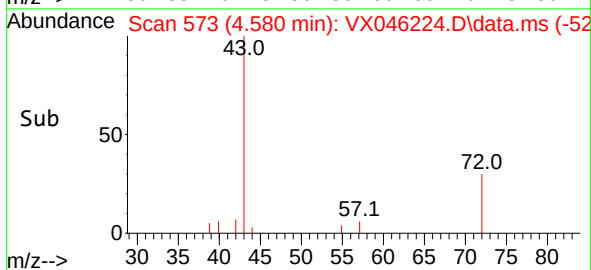
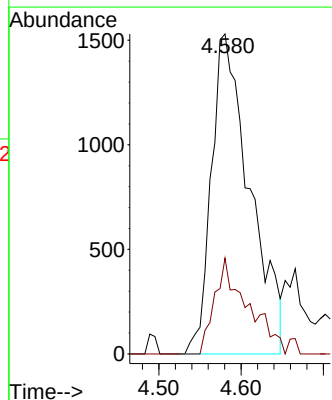
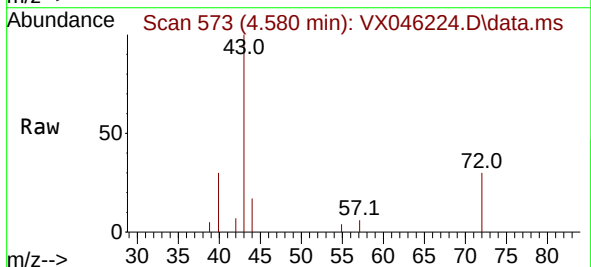
Instrument :
MSVOA_X
ClientSampleId :
72-11991

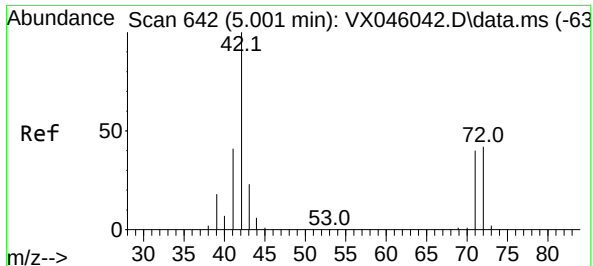
Tgt Ion:	84	Resp:	12997
Ion	Ratio	Lower	Upper
84	100		
49	140.3	113.9	170.9
51	42.7	33.5	50.3
86	58.8	53.8	80.8



#25
2-Butanone
Concen: 7.744 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.024 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Tgt Ion:	43	Resp:	4981
Ion	Ratio	Lower	Upper
43	100		
72	29.9	18.4	27.6#





#29

Tetrahydrofuran

Concen: 0.901 ug/l

RT: 5.050 min Scan# 61

Delta R.T. 0.049 min

Lab File: VX046224.D

Acq: 15 May 2025 19:15

Instrument :

MSVOA_X

ClientSampleId :

72-11991

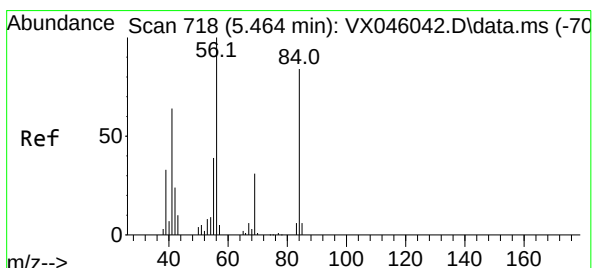
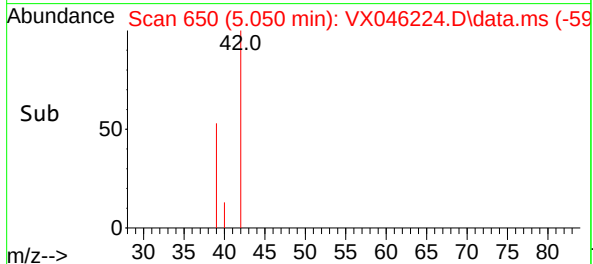
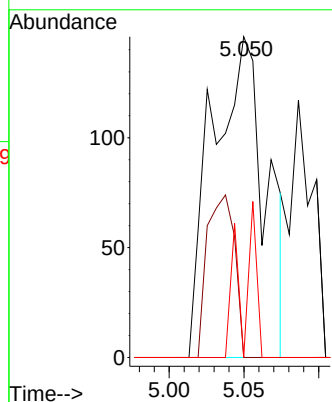
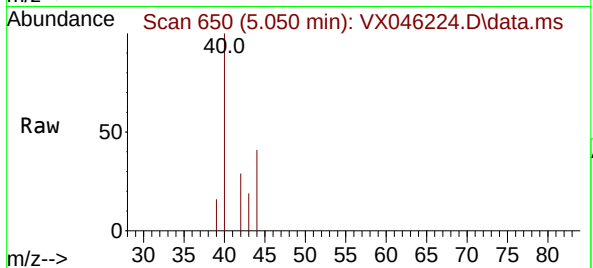
Tgt Ion: 42 Resp: 363

Ion Ratio Lower Upper

42 100

72 25.9 33.7 50.5#

71 6.1 31.4 47.2#



#31

Cyclohexane

Concen: 1.338 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX046224.D

Acq: 15 May 2025 19:15

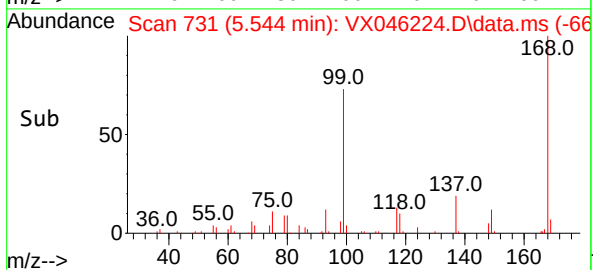
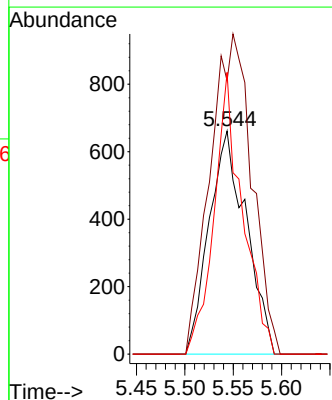
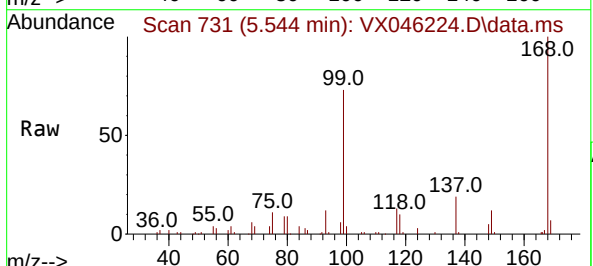
Tgt Ion: 56 Resp: 1762

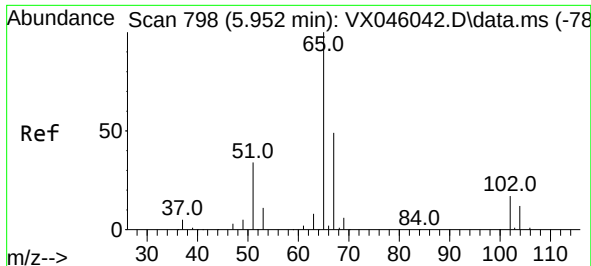
Ion Ratio Lower Upper

56 100

69 122.5 24.4 36.6#

84 126.3 66.9 100.3#





#33

1,2-Dichloroethane-d4

Concen: 56.516 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046224.D

Acq: 15 May 2025 19:15

Instrument :

MSVOA_X

ClientSampleId :

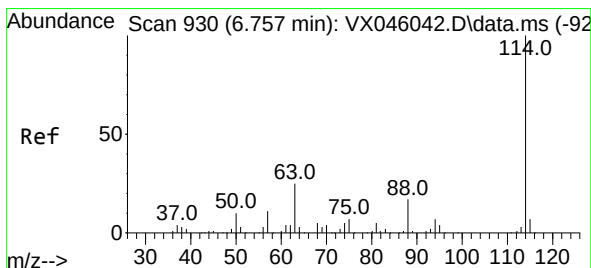
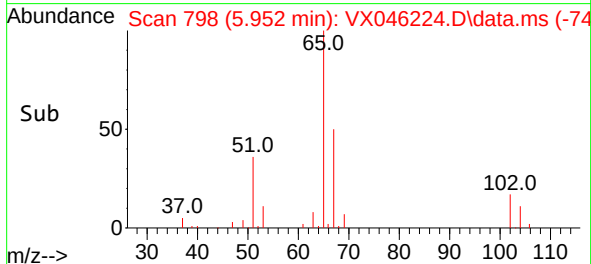
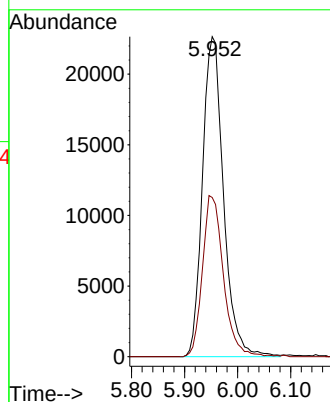
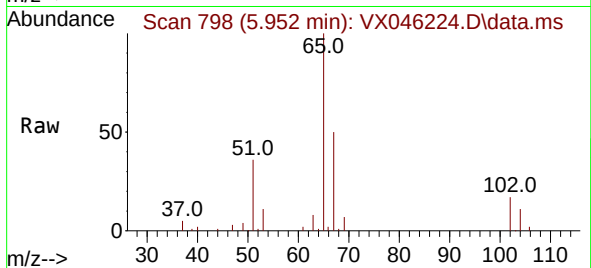
72-11991

Tgt Ion: 65 Resp: 62448

Ion Ratio Lower Upper

65 100

67 50.1 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX046224.D

Acq: 15 May 2025 19:15

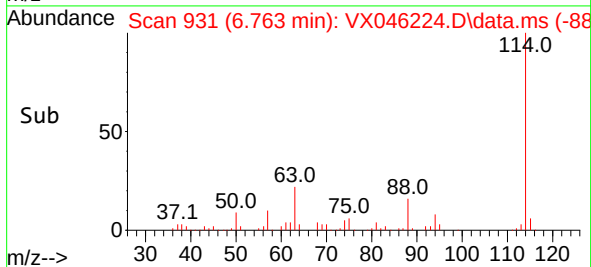
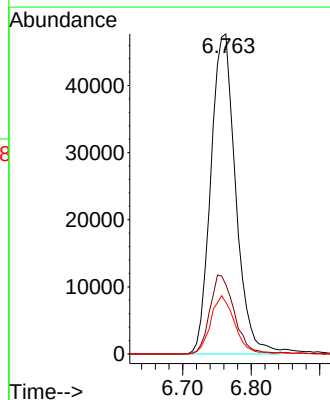
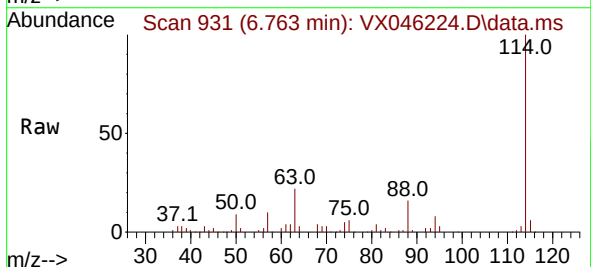
Tgt Ion: 114 Resp: 119771

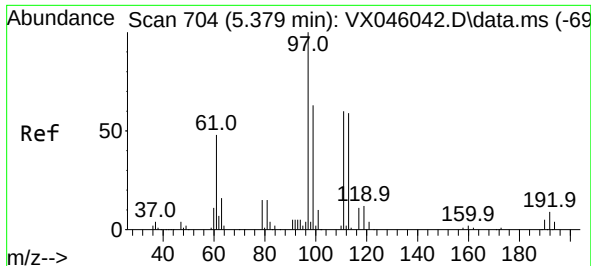
Ion Ratio Lower Upper

114 100

63 21.7 0.0 49.2

88 16.1 0.0 33.6

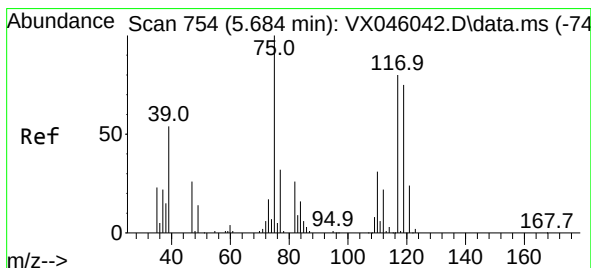
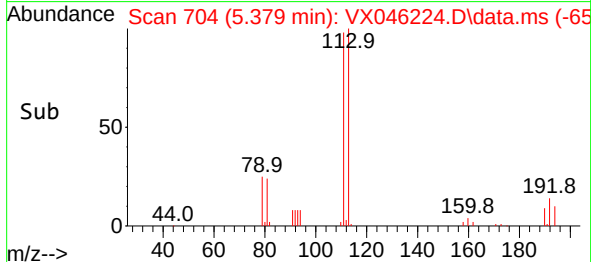
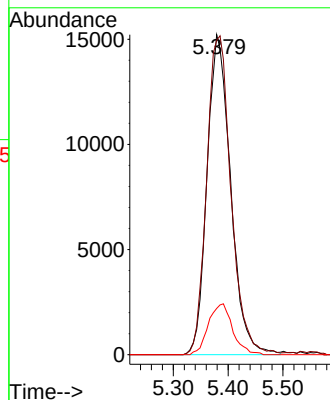
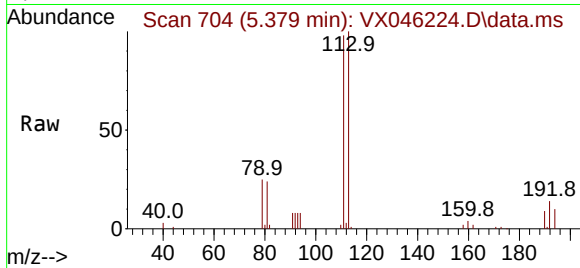




#35
 Dibromofluoromethane
 Concen: 52.680 ug/l
 RT: 5.379 min Scan# 704
 Delta R.T. -0.000 min
 Lab File: VX046224.D
 Acq: 15 May 2025 19:15

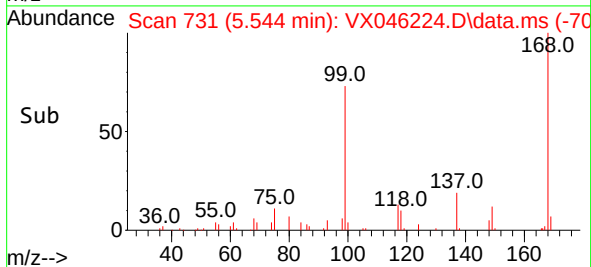
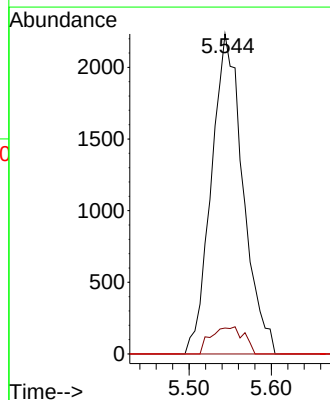
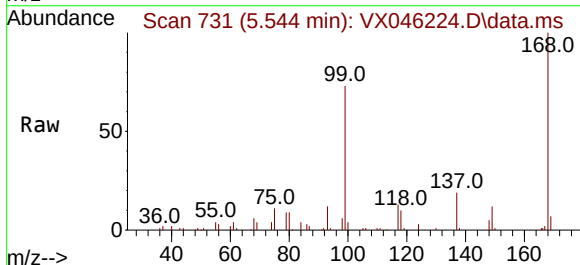
Instrument :
 MSVOA_X
 ClientSampleId :
 72-11991

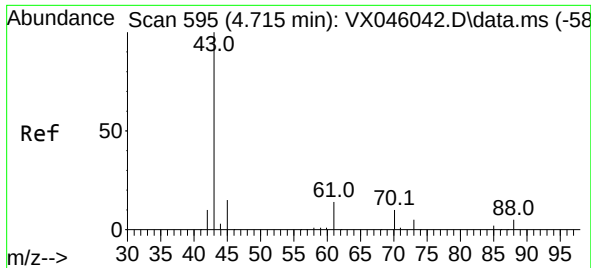
Tgt Ion:113 Resp: 45435
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.1 124.7
 192 16.3 13.3 19.9



#36
 1,1-Dichloropropene
 Concen: 5.162 ug/l
 RT: 5.544 min Scan# 731
 Delta R.T. -0.140 min
 Lab File: VX046224.D
 Acq: 15 May 2025 19:15

Tgt Ion: 75 Resp: 5982
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.3 48.9#
 77 0.0 24.3 36.5#

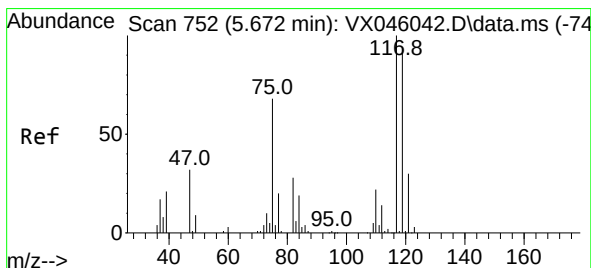
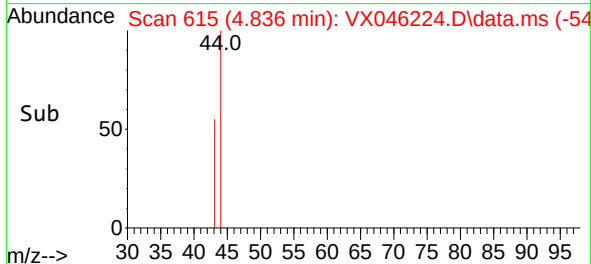
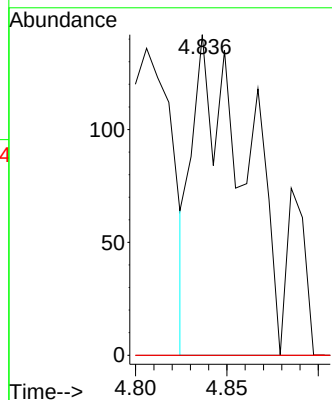
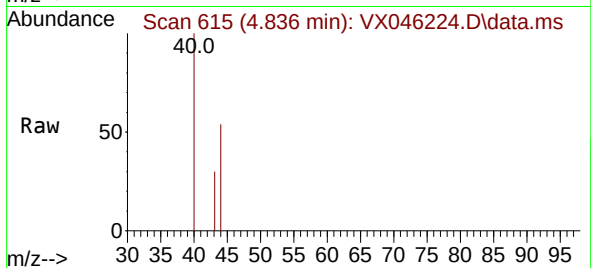




#37
Ethyl Acetate
Concen: 0.201 ug/l
RT: 4.836 min Scan# 611
Delta R.T. 0.122 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

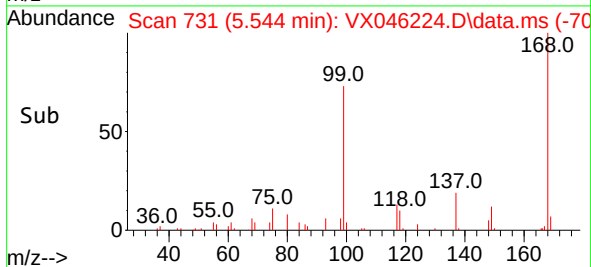
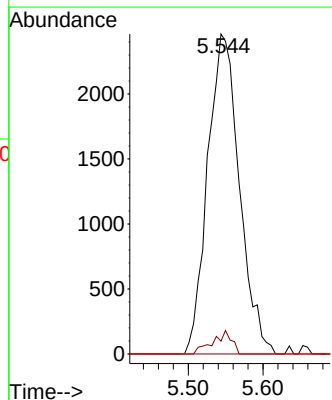
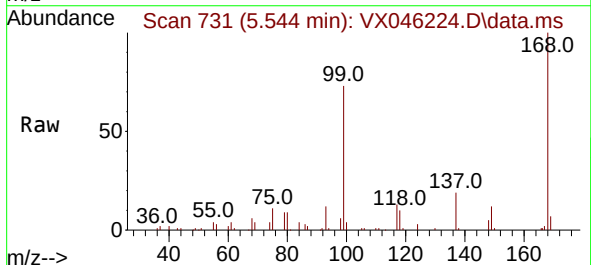
Instrument :
MSVOA_X
ClientSampleId :
72-11991

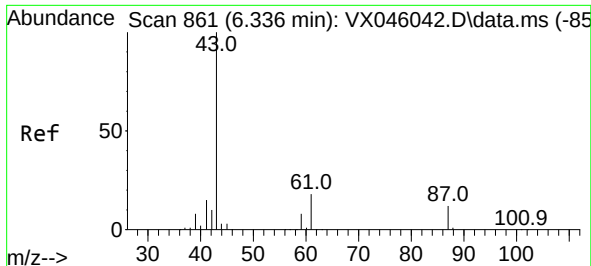
Tgt Ion: 43 Resp: 288
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 5.577 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.128 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Tgt Ion: 117 Resp: 7262
Ion Ratio Lower Upper
117 100
119 4.0 75.2 112.8#
121 0.0 24.2 36.4#





#43

Isopropyl Acetate

Concen: 6.384 ug/l

RT: 6.342 min Scan# 8

Delta R.T. 0.006 min

Lab File: VX046224.D

Acq: 15 May 2025 19:15

Instrument :

MSVOA_X

ClientSampleId :

72-11991

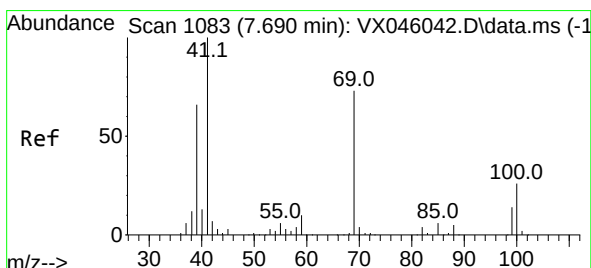
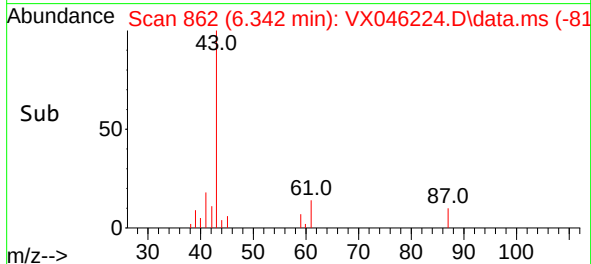
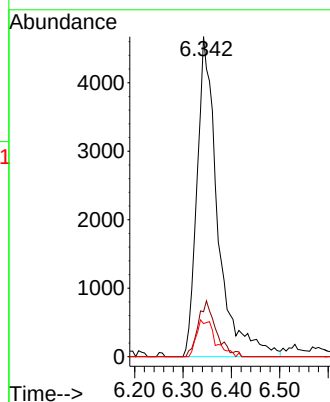
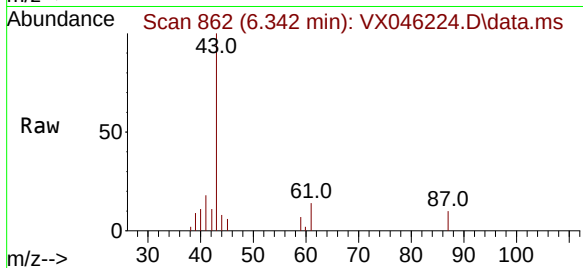
Tgt Ion: 43 Resp: 13944

Ion Ratio Lower Upper

43 100

61 15.2 14.3 21.5

87 10.4 9.5 14.3



#48

Methyl methacrylate

Concen: 47.979 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.104 min

Lab File: VX046224.D

Acq: 15 May 2025 19:15

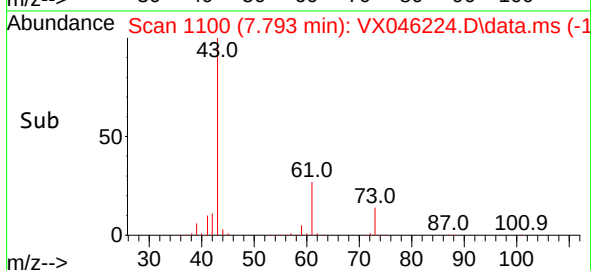
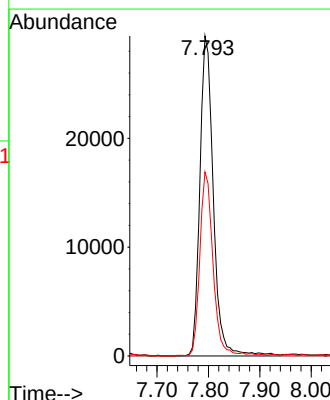
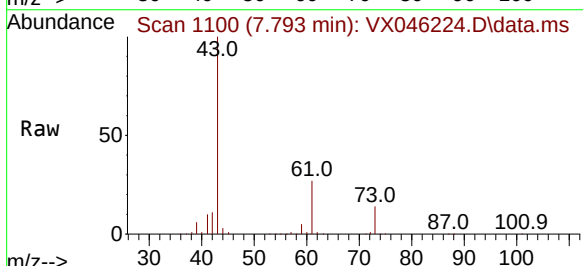
Tgt Ion: 41 Resp: 53520

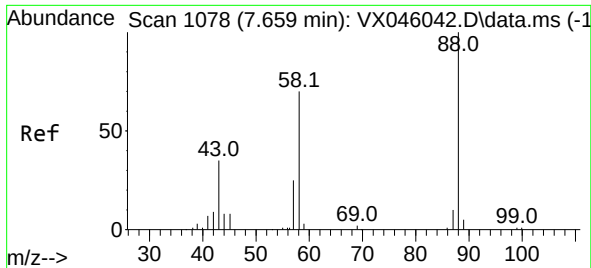
Ion Ratio Lower Upper

41 100

69 0.0 58.5 87.7#

39 56.8 51.7 77.5

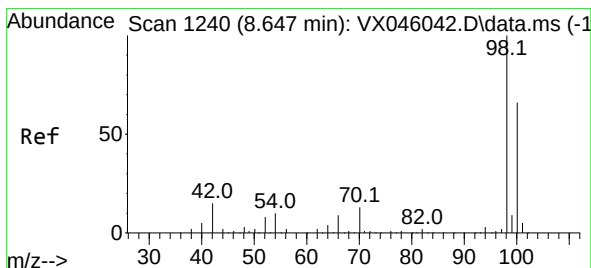
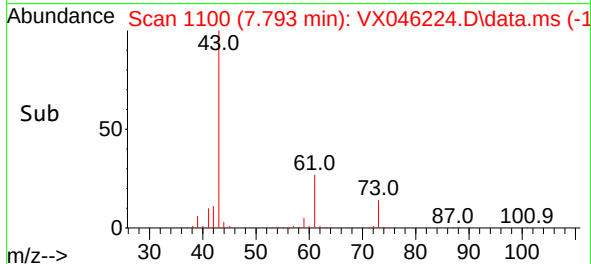
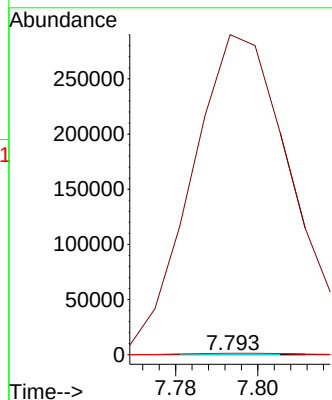
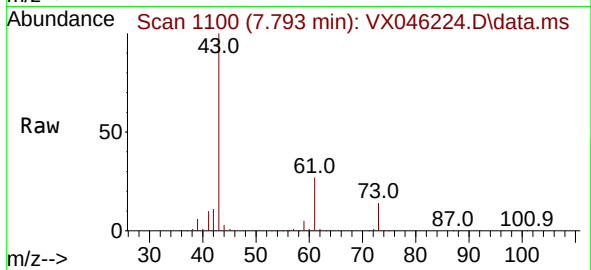




#49
1,4-Dioxane
Concen: 1.086 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.134 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

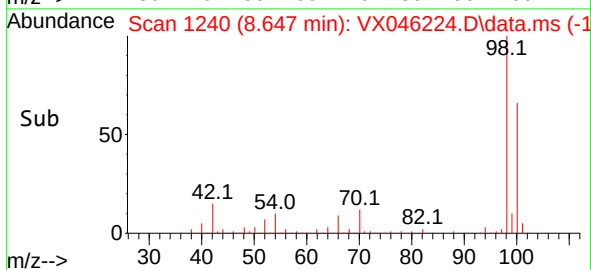
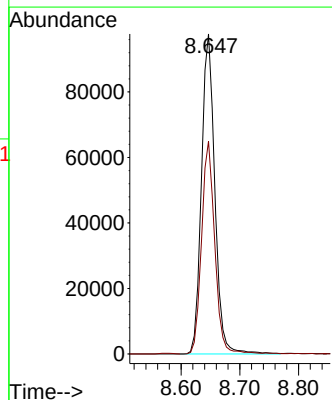
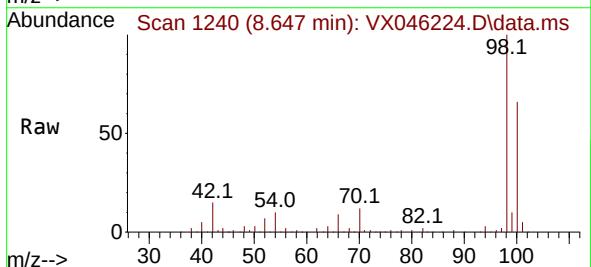
Instrument :
MSVOA_X
ClientSampleId :
72-11991

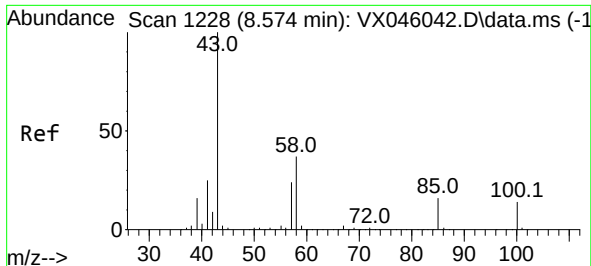
Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 2236756.5 33.4 50.2#
58 11578.3 58.6 88.0#



#50
Toluene-d8
Concen: 51.772 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Tgt Ion: 98 Resp: 154547
Ion Ratio Lower Upper
98 100
100 65.8 53.5 80.3

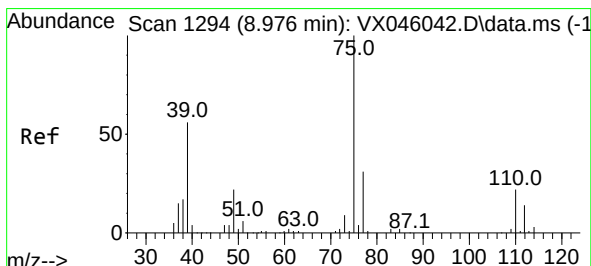
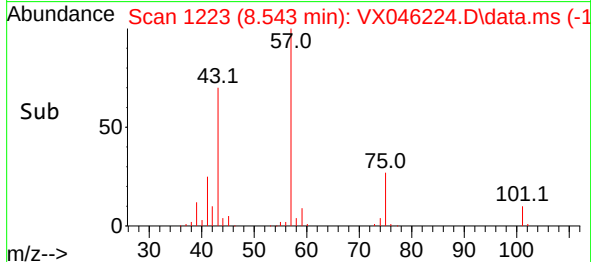
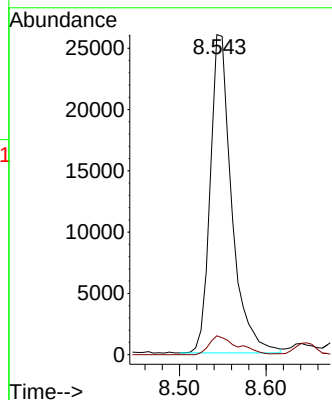
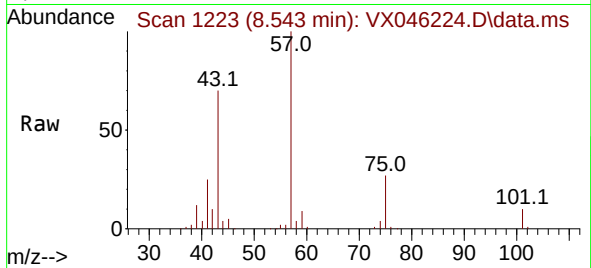




#51
4-Methyl-2-Pentanone
Concen: 30.873 ug/l
RT: 8.543 min Scan# 11
Delta R.T. -0.031 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

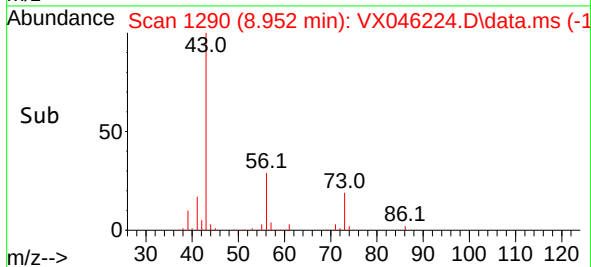
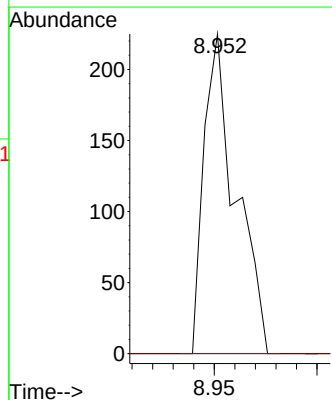
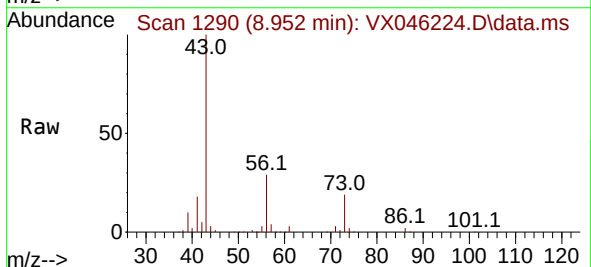
Instrument :
MSVOA_X
ClientSampleId :
72-11991

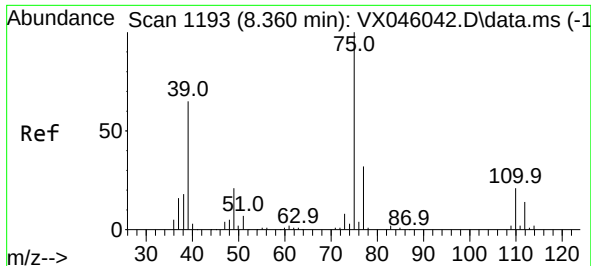
Tgt Ion: 43 Resp: 44760
Ion Ratio Lower Upper
43 100
58 7.8 28.9 43.3#



#53
t-1,3-Dichloropropene
Concen: 0.209 ug/l
RT: 8.952 min Scan# 1290
Delta R.T. -0.024 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Tgt Ion: 75 Resp: 243
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#

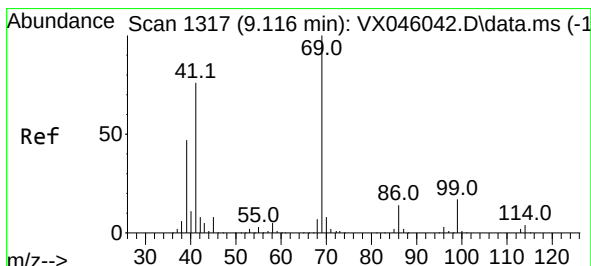
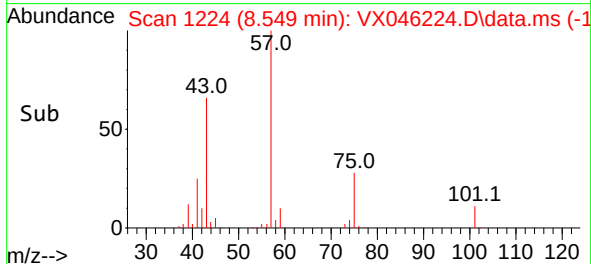
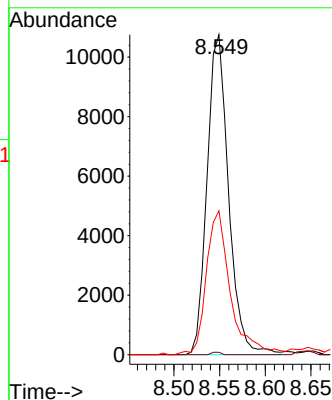
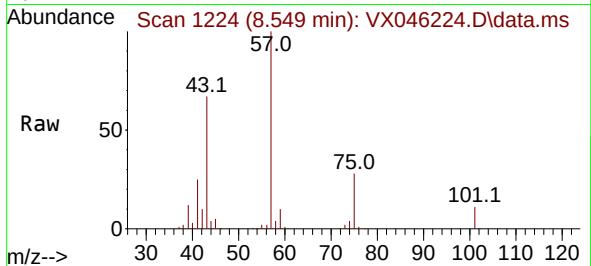




#54
 cis-1,3-Dichloropropene
 Concen: 13.646 ug/l
 RT: 8.549 min Scan# 1193
 Delta R.T. 0.189 min
 Lab File: VX046224.D
 Acq: 15 May 2025 19:15

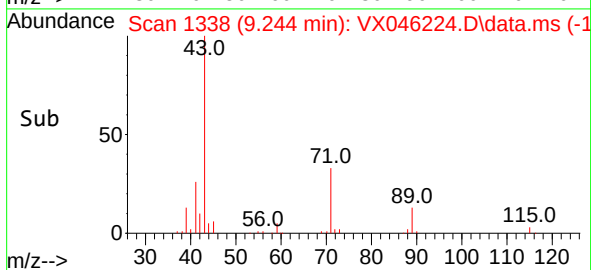
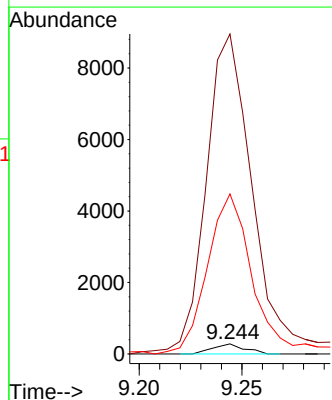
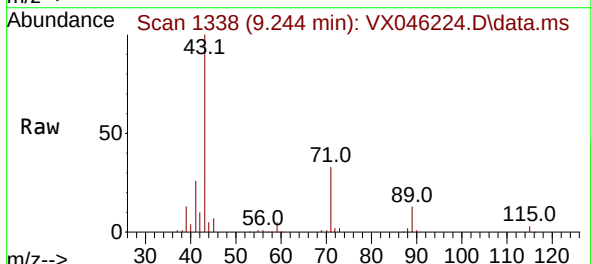
Instrument :
 MSVOA_X
 ClientSampleId :
 72-11991

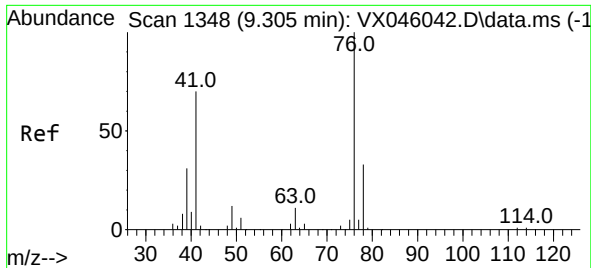
Tgt Ion: 75 Resp: 17577
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.0#
 39 44.4 52.2 78.4#



#56
 Ethyl methacrylate
 Concen: 0.232 ug/l
 RT: 9.244 min Scan# 1338
 Delta R.T. 0.128 min
 Lab File: VX046224.D
 Acq: 15 May 2025 19:15

Tgt Ion: 69 Resp: 304
 Ion Ratio Lower Upper
 69 100
 41 4607.9 60.8 91.2#
 39 2267.1 39.0 58.6#

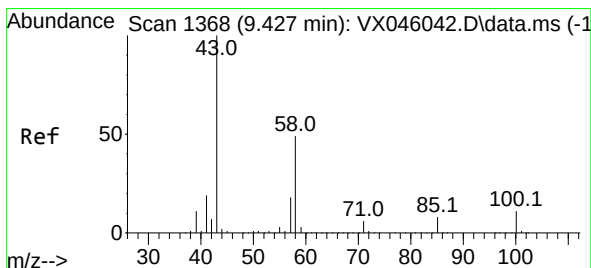
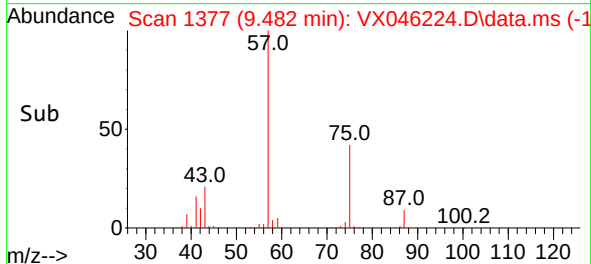
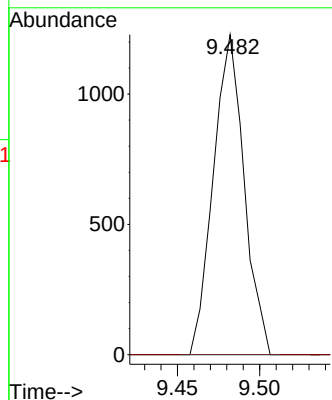
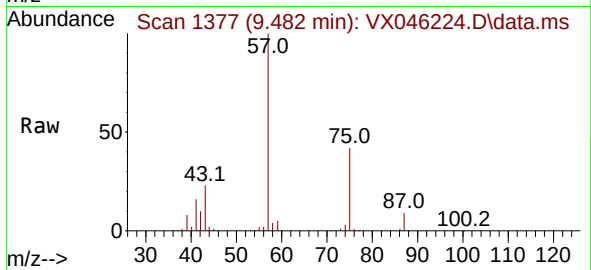




#57
1,3-Dichloropropane
Concen: 1.085 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

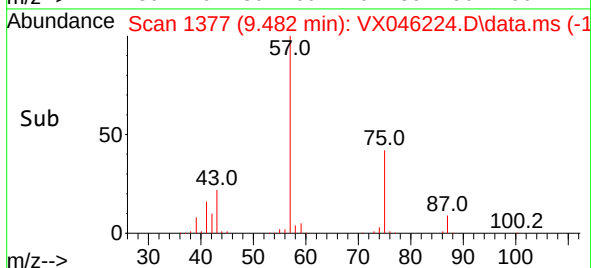
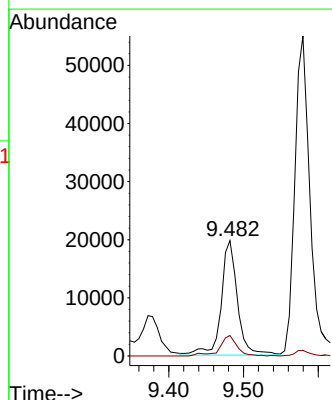
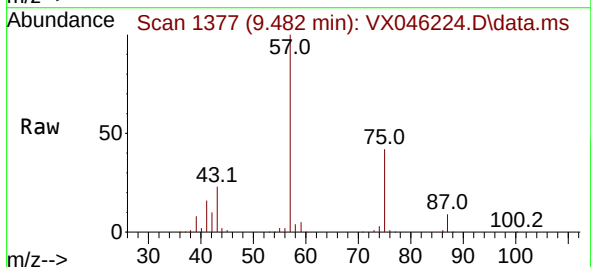
Instrument :
MSVOA_X
ClientSampleId :
72-11991

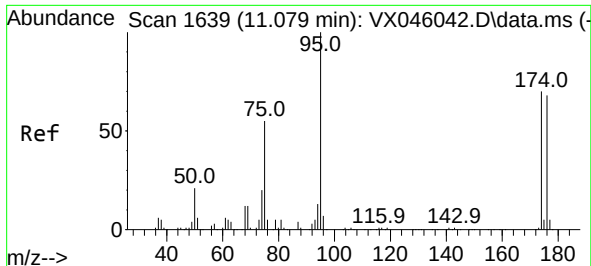
Tgt Ion: 76 Resp: 1599
Ion Ratio Lower Upper
76 100
78 0.0 26.3 39.5#



#59
2-Hexanone
Concen: 27.960 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.055 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Tgt Ion: 43 Resp: 29991
Ion Ratio Lower Upper
43 100
58 17.1 24.9 74.6#





#62

4-Bromofluorobenzene

Concen: 52.325 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046224.D

Acq: 15 May 2025 19:15

Instrument :

MSVOA_X

ClientSampleId :

72-11991

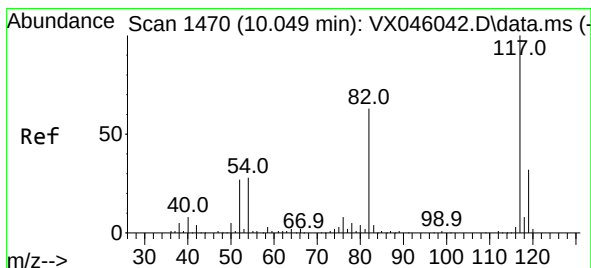
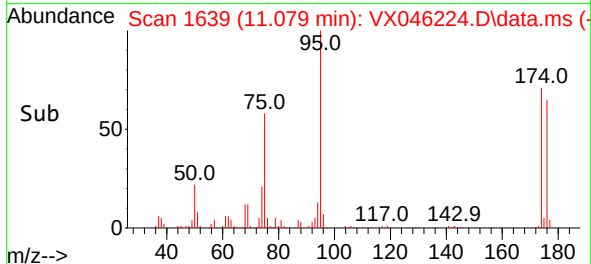
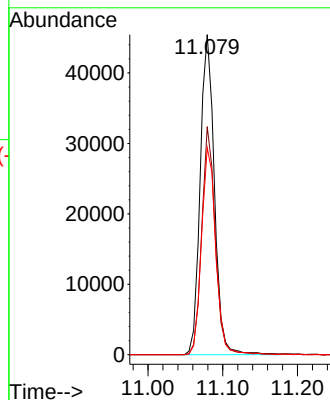
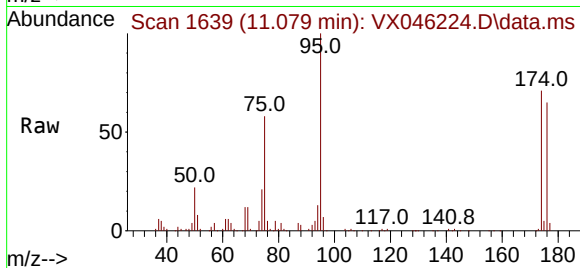
Tgt Ion: 95 Resp: 59915

Ion Ratio Lower Upper

95 100

174 68.0 0.0 135.8

176 64.9 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: VX046224.D

Acq: 15 May 2025 19:15

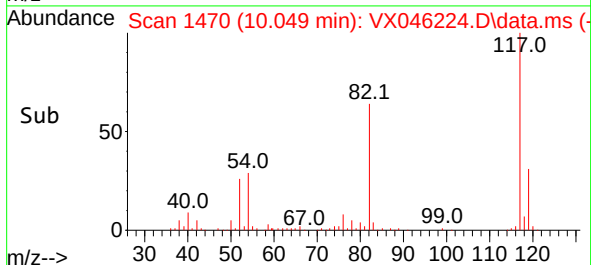
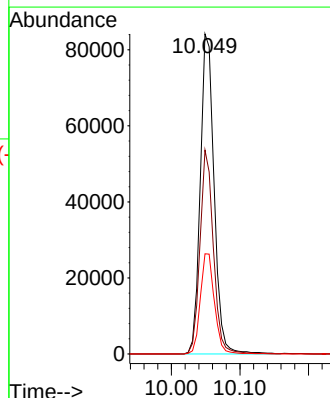
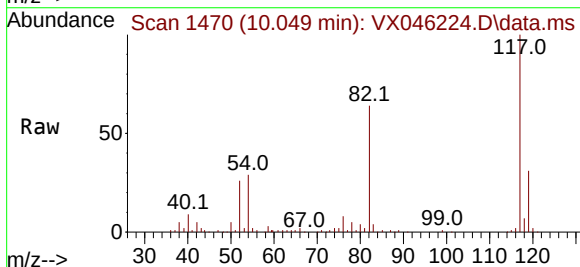
Tgt Ion: 117 Resp: 118520

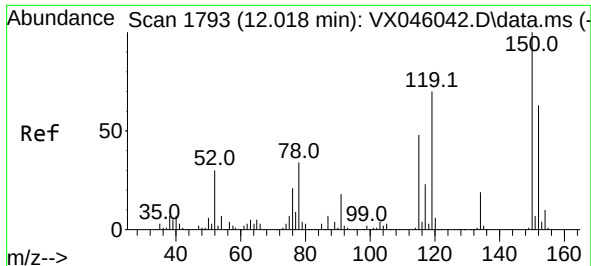
Ion Ratio Lower Upper

117 100

82 63.7 50.6 76.0

119 31.3 25.8 38.6

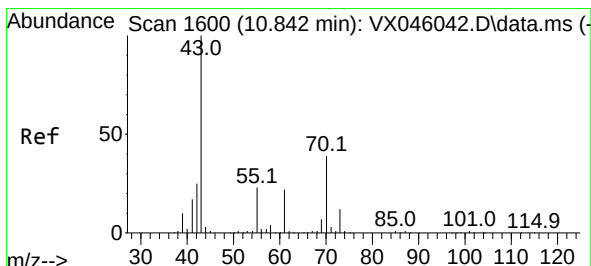
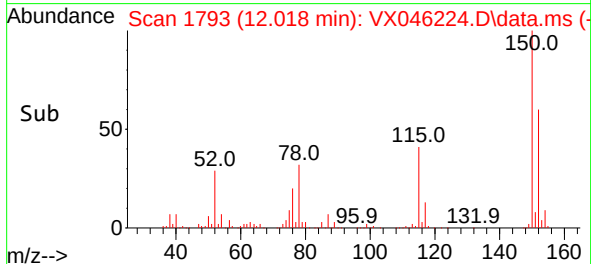
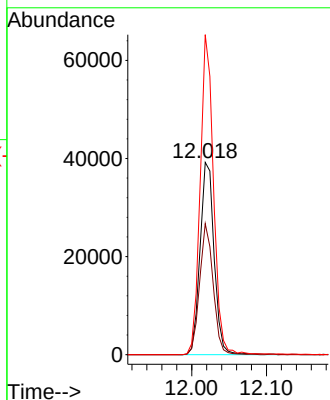
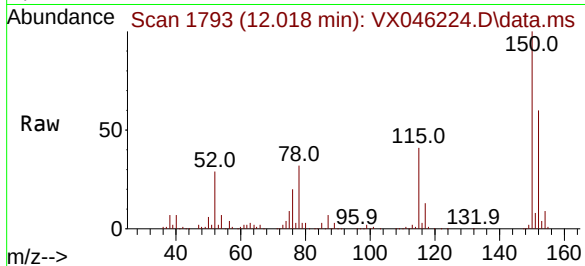




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

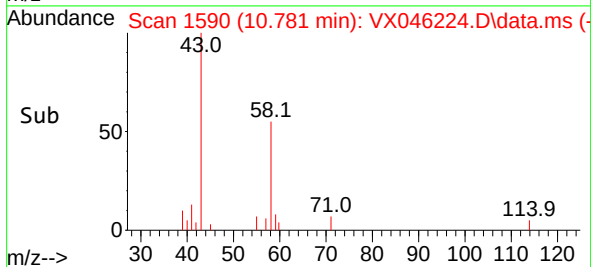
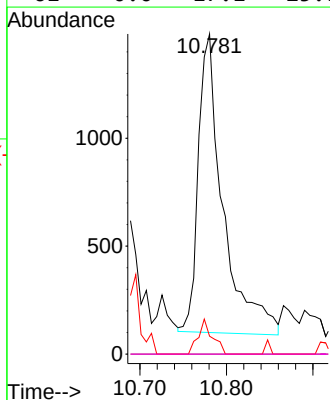
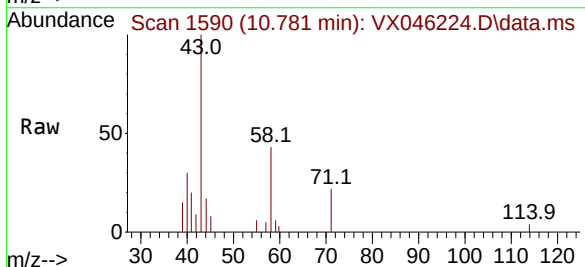
Instrument :
MSVOA_X
ClientSampleId :
72-11991

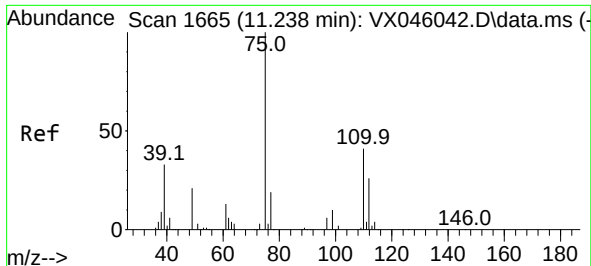
Tgt Ion:152 Resp: 51396
Ion Ratio Lower Upper
152 100
115 65.3 46.9 140.7
150 157.3 0.0 351.0



#74
N-ethyl acetate
Concen: 1.381 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.061 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Tgt Ion: 43 Resp: 2730
Ion Ratio Lower Upper
43 100
70 0.0 30.9 46.3#
55 6.8 18.7 28.1#
61 0.0 17.1 25.7#

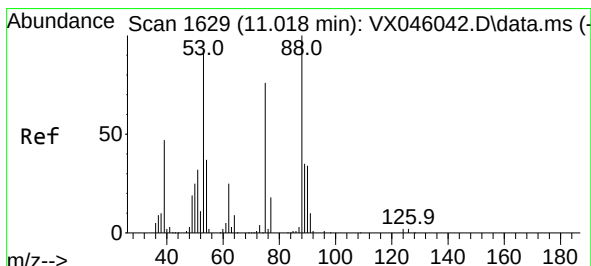
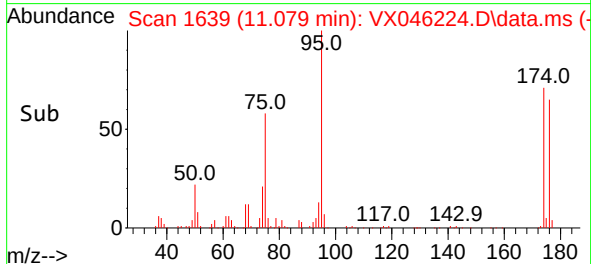
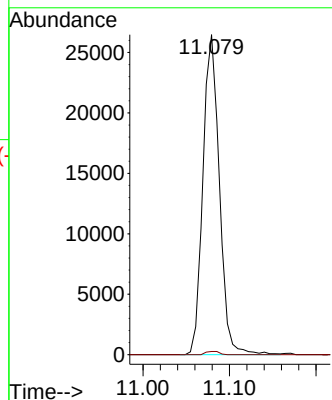
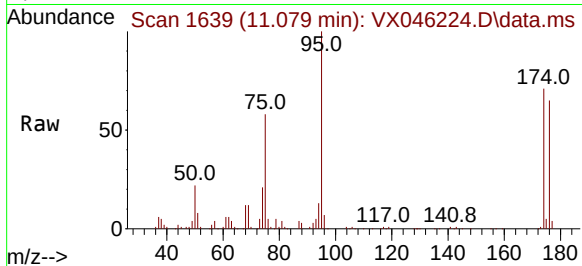




#76
1,2,3-Trichloropropane
Concen: 28.277 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

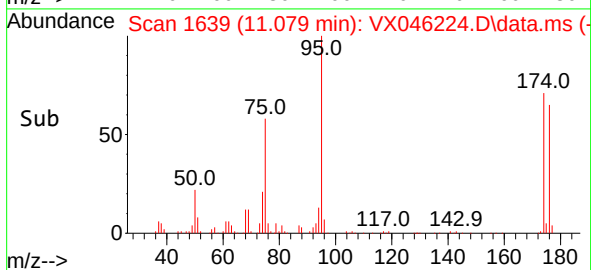
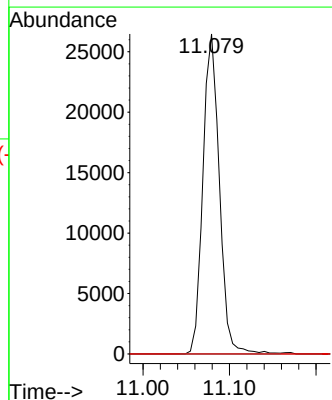
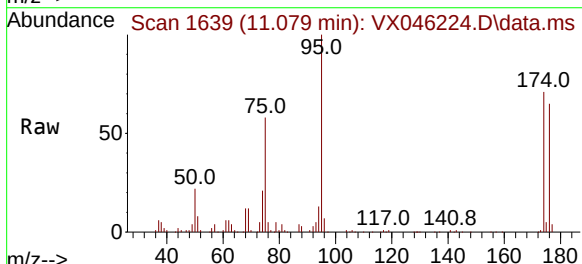
Instrument :
MSVOA_X
ClientSampleId :
72-11991

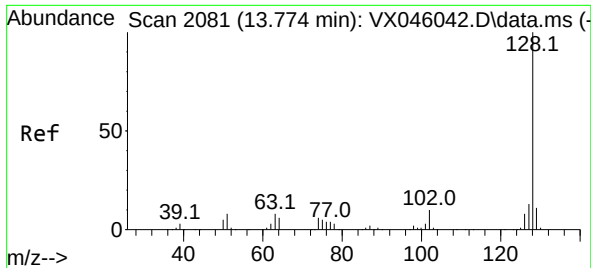
Tgt Ion: 75 Resp: 34982
Ion Ratio Lower Upper
75 100
77 0.8 20.5 61.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 92.060 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

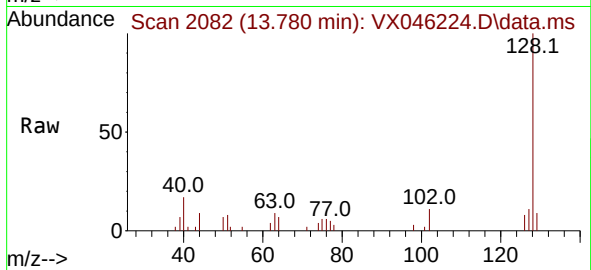
Tgt Ion: 75 Resp: 34982
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.0 37.0 55.6#





#95
Naphthalene
Concen: 1.267 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX046224.D
Acq: 15 May 2025 19:15

Instrument :
MSVOA_X
ClientSampleId :
72-11991



Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	8.3	8.6	13.0

