

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052225\
 Data File : VX046324.D
 Acq On : 22 May 2025 13:10
 Operator : JC/MD
 Sample : Q2097-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RT3419

Quant Time: May 23 01:45:56 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)

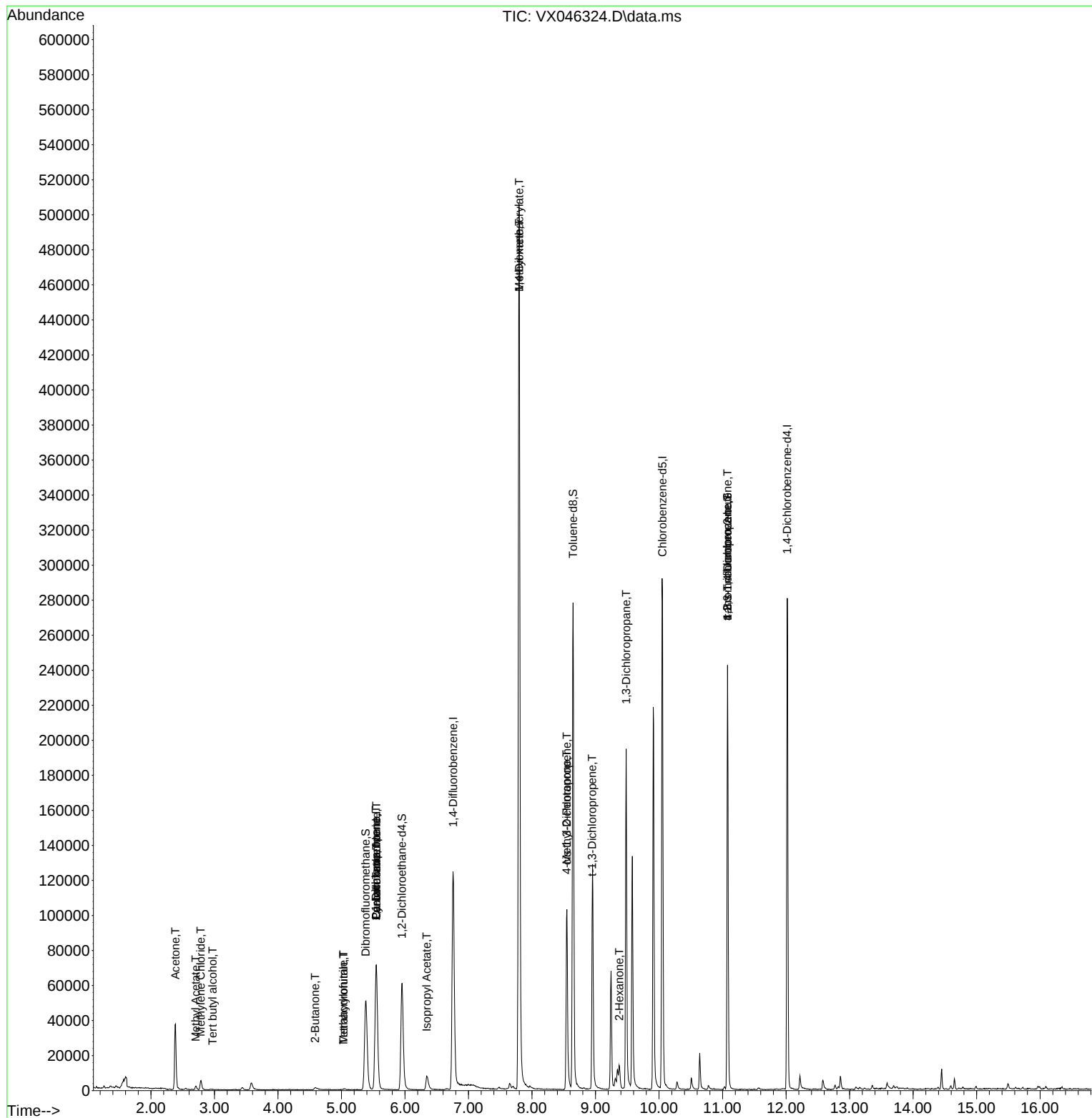
Internal Standards						
1) Pentafluorobenzene	5.550	168	60281	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	121358	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	118262	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	52335	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63603	56.595	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	113.180%
35) Dibromofluoromethane	5.379	113	45023	51.519	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.040%
50) Toluene-d8	8.647	98	157835	52.182	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.360%
62) 4-Bromofluorobenzene	11.079	95	62290	53.687	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	107.380%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.971	59	129	0.818	ug/l #	72
16) Acetone	2.386	43	41735	92.620	ug/l	100
18) Methyl Acetate	2.703	43	2658	2.542	ug/l	95
20) Methylene Chloride	2.782	84	2411	2.792	ug/l	94
25) 2-Butanone	4.586	43	2595	3.967	ug/l #	87
29) Tetrahydrofuran	5.032	42	511	1.247	ug/l #	35
31) Cyclohexane	5.550	56	1836	1.371	ug/l #	27
36) 1,1-Dichloropropene	5.544	75	6053	5.155	ug/l #	52
38) Carbon Tetrachloride	5.550	117	7262	5.504	ug/l #	17
41) Methacrylonitrile	5.032	41	296	0.390	ug/l #	40
43) Isopropyl Acetate	6.342	43	12011	5.427	ug/l	98
48) Methyl methacrylate	7.799	41	50265	44.472	ug/l #	49
49) 1,4-Dioxane	7.799	88	66	3.075	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	40563	27.612	ug/l #	52
53) t-1,3-Dichloropropene	8.945	75	255	0.216	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	15437	11.828	ug/l #	62
57) 1,3-Dichloropropane	9.482	76	1553	1.040	ug/l #	42
59) 2-Hexanone	9.372	43	12148	11.177	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	35844	28.454	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	35844	92.636	ug/l #	1

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

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Response via : Initial Calibration

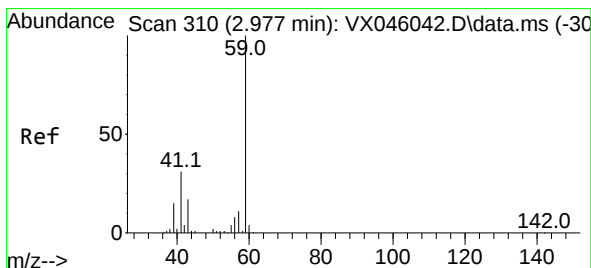
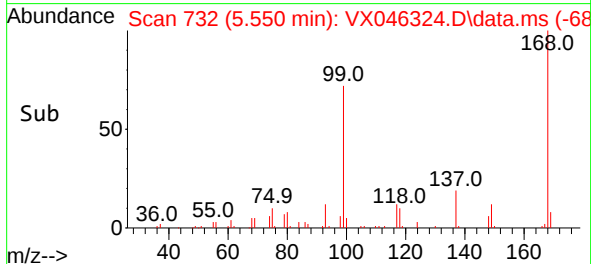
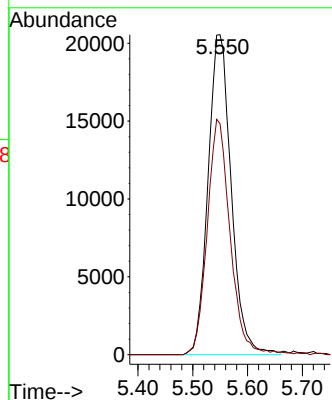
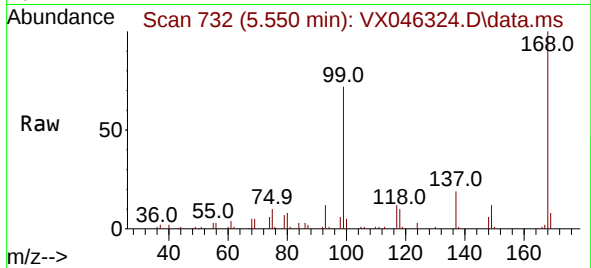




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

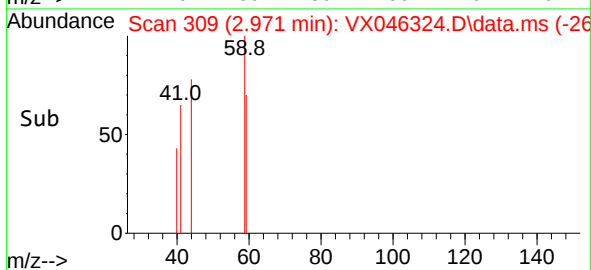
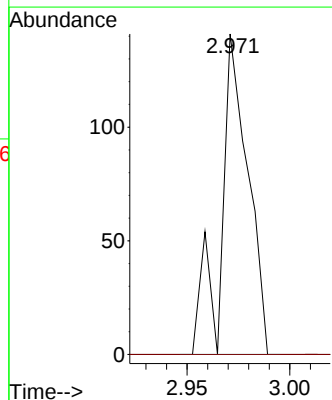
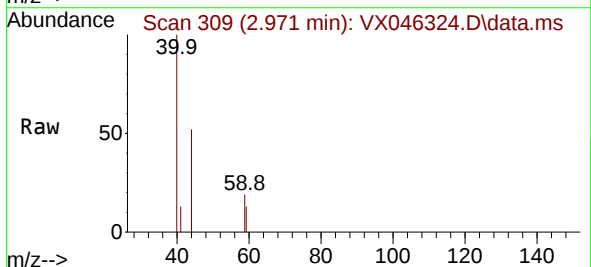
Instrument :
MSVOA_X
ClientSampleId :
RT3419

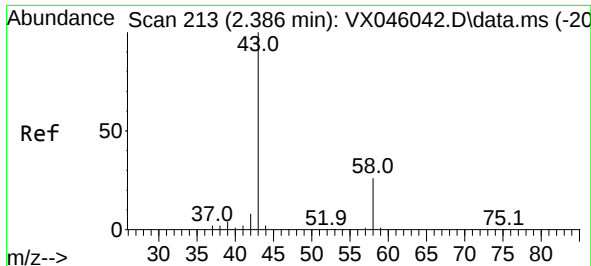
Tgt Ion:168 Resp: 60281
Ion Ratio Lower Upper
168 100
99 72.2 54.9 82.3



#11
Tert butyl alcohol
Concen: 0.818 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion: 59 Resp: 129
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

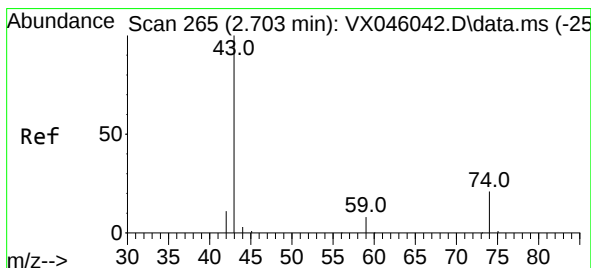
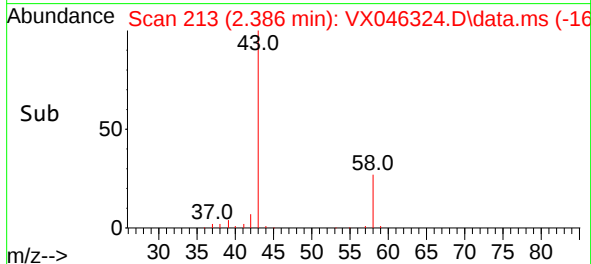
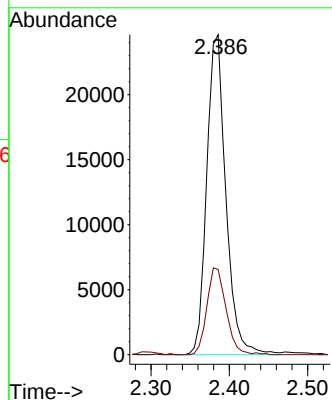
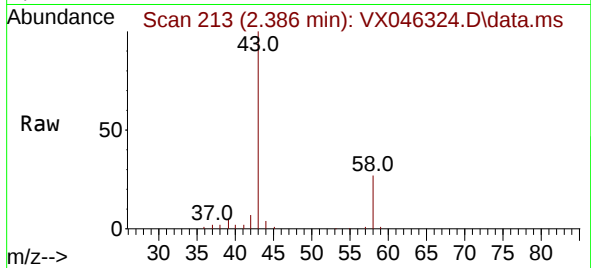




#16
Acetone
Concen: 92.620 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

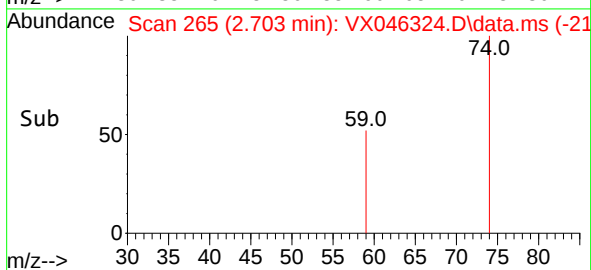
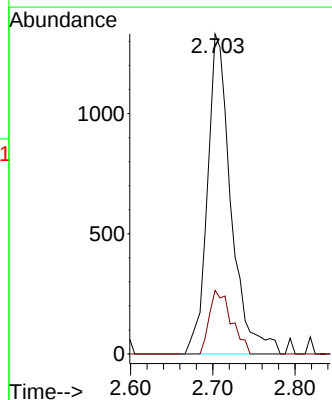
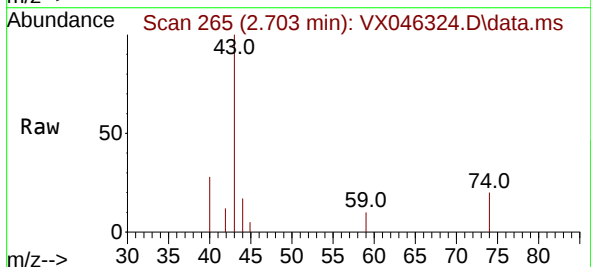
Instrument :
MSVOA_X
ClientSampleId :
RT3419

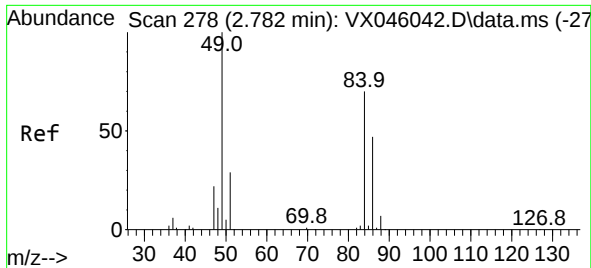
Tgt Ion: 43 Resp: 41735
Ion Ratio Lower Upper
43 100
58 26.6 21.2 31.8



#18
Methyl Acetate
Concen: 2.542 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion: 43 Resp: 2658
Ion Ratio Lower Upper
43 100
74 18.5 16.7 25.1

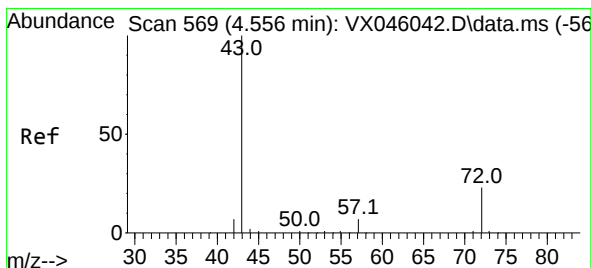
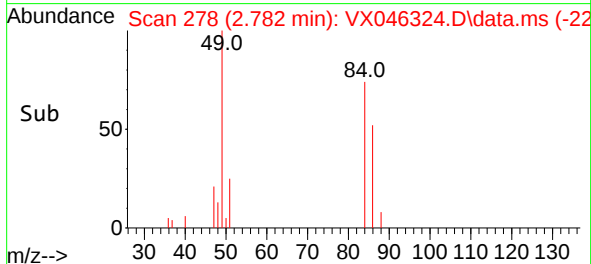
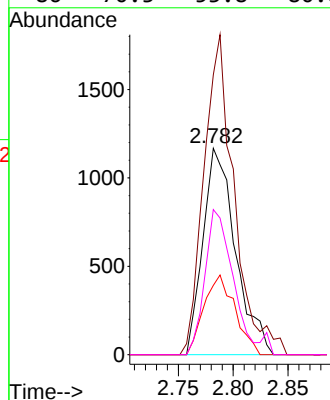
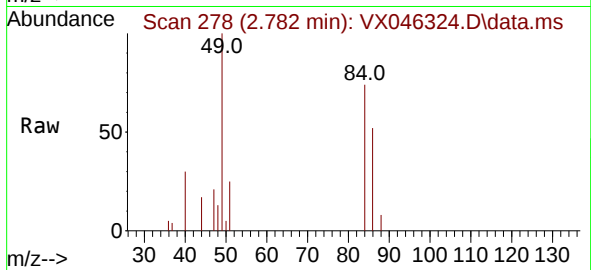




#20
Methylene Chloride
Concen: 2.792 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

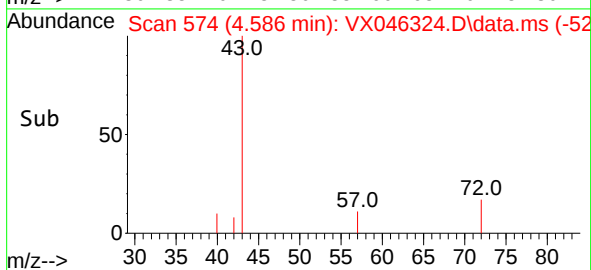
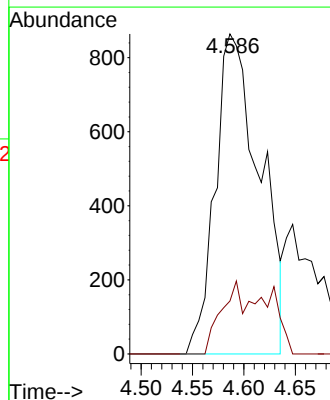
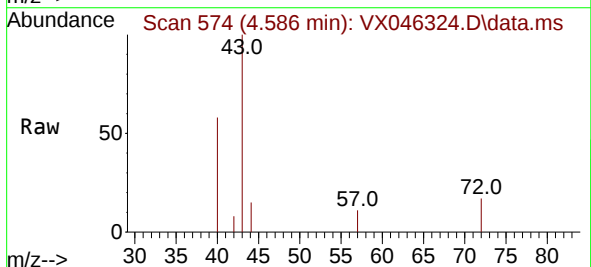
Instrument :
MSVOA_X
ClientSampleId :
RT3419

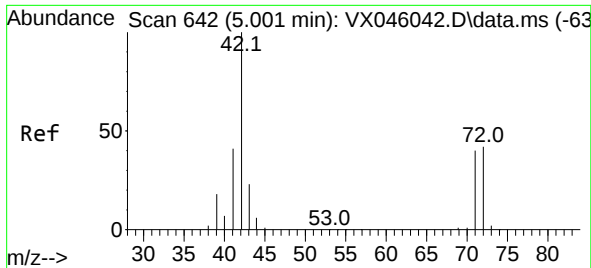
Tgt Ion:	84	Resp:	2411
Ion	Ratio	Lower	Upper
84	100		
49	135.5	113.9	170.9
51	33.6	33.5	50.3
86	70.3	53.8	80.8



#25
2-Butanone
Concen: 3.967 ug/l
RT: 4.586 min Scan# 574
Delta R.T. 0.030 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion:	43	Resp:	2595
Ion	Ratio	Lower	Upper
43	100		
72	16.6	18.4	27.6#





#29

Tetrahydrofuran

Concen: 1.247 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.030 min

Lab File: VX046324.D

Acq: 22 May 2025 13:10

Instrument :

MSVOA_X

ClientSampleId :

RT3419

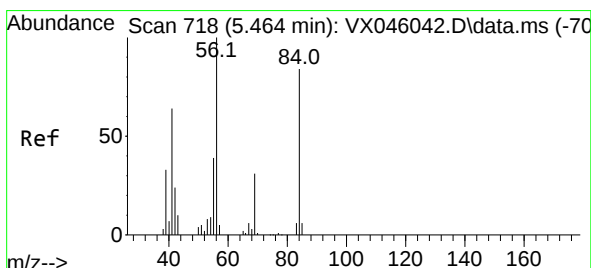
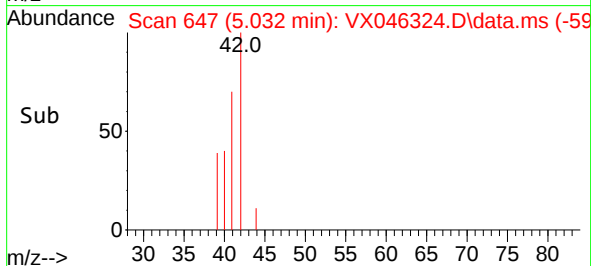
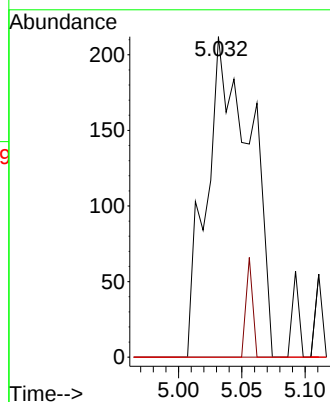
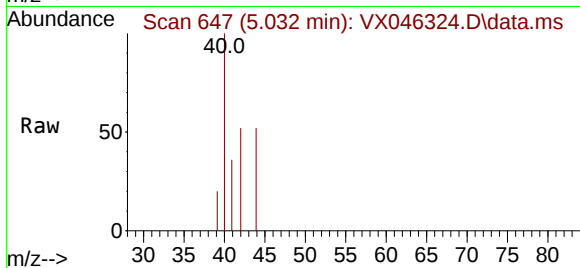
Tgt Ion: 42 Resp: 511

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.4 47.2#



#31

Cyclohexane

Concen: 1.371 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.085 min

Lab File: VX046324.D

Acq: 22 May 2025 13:10

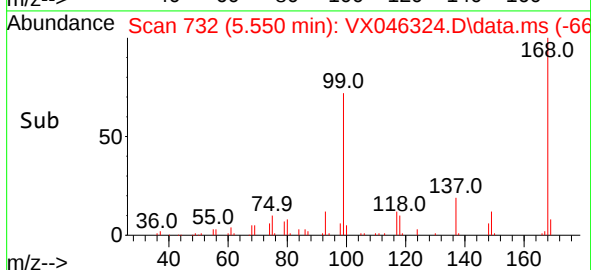
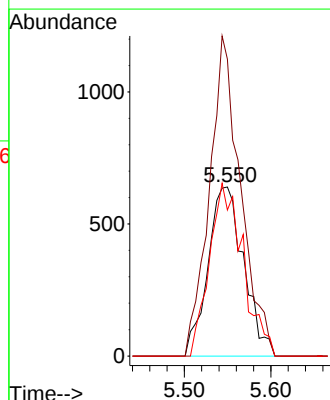
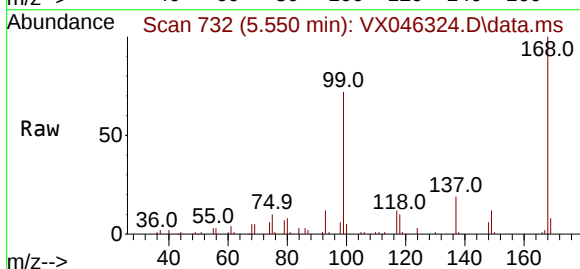
Tgt Ion: 56 Resp: 1836

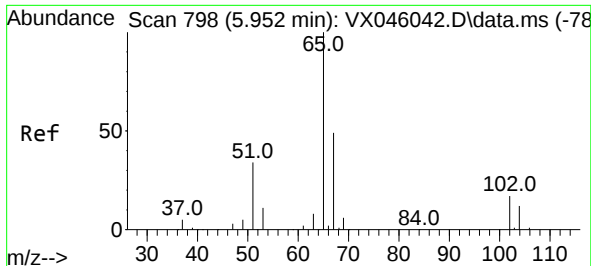
Ion Ratio Lower Upper

56 100

69 175.6 24.4 36.6#

84 86.4 66.9 100.3





#33

1,2-Dichloroethane-d4

Concen: 56.595 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046324.D

Acq: 22 May 2025 13:10

Instrument :

MSVOA_X

ClientSampleId :

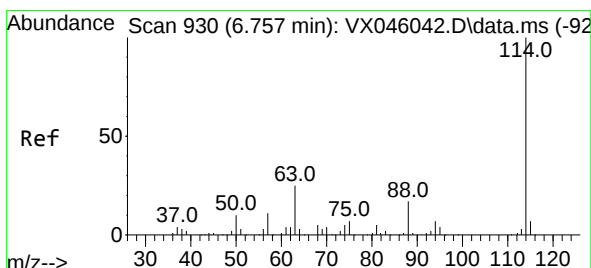
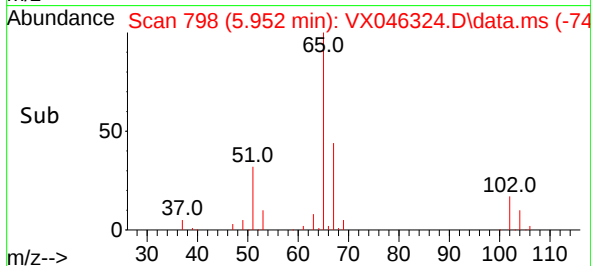
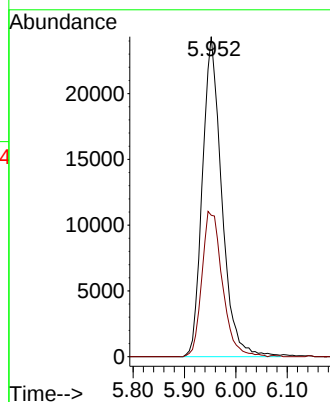
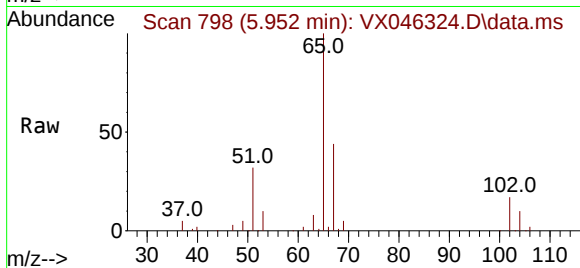
RT3419

Tgt Ion: 65 Resp: 63603

Ion Ratio Lower Upper

65 100

67 48.2 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: VX046324.D

Acq: 22 May 2025 13:10

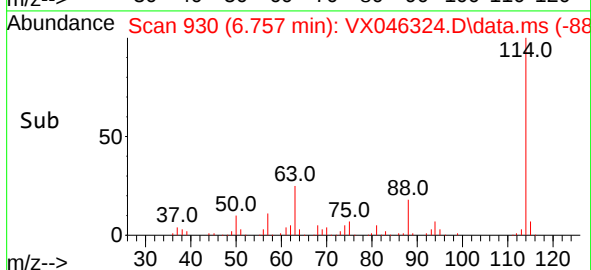
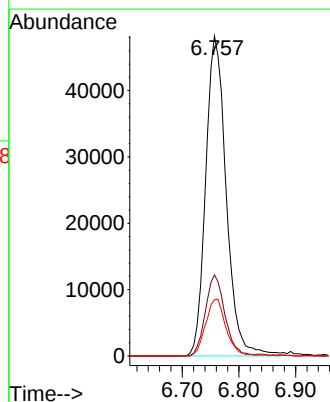
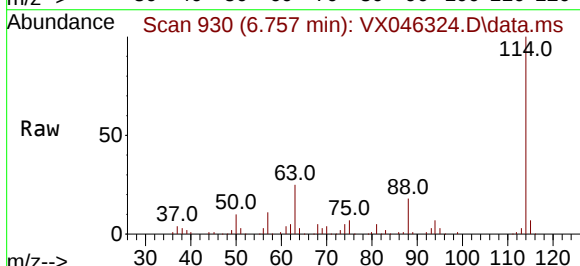
Tgt Ion: 114 Resp: 121358

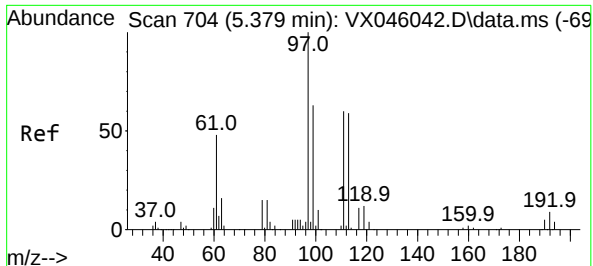
Ion Ratio Lower Upper

114 100

63 25.3 0.0 49.2

88 17.6 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.519 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX046324.D

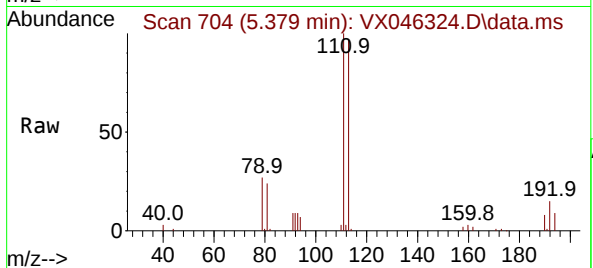
Acq: 22 May 2025 13:10

Instrument :

MSVOA_X

ClientSampleId :

RT3419



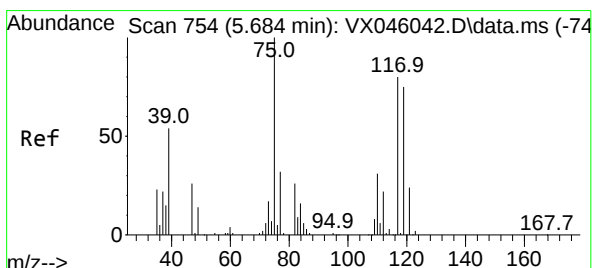
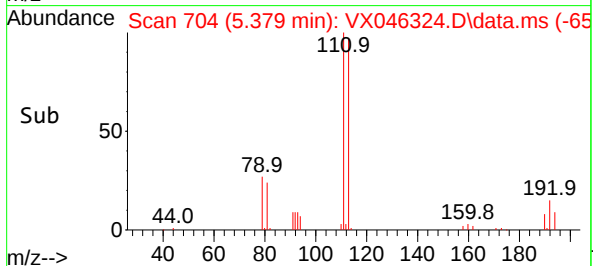
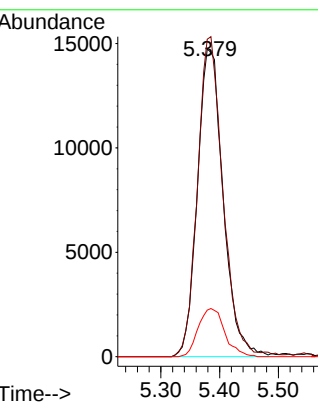
Tgt Ion:113 Resp: 45023

Ion Ratio Lower Upper

113 100

111 102.3 83.1 124.7

192 16.0 13.3 19.9



#36

1,1-Dichloropropene

Concen: 5.155 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX046324.D

Acq: 22 May 2025 13:10

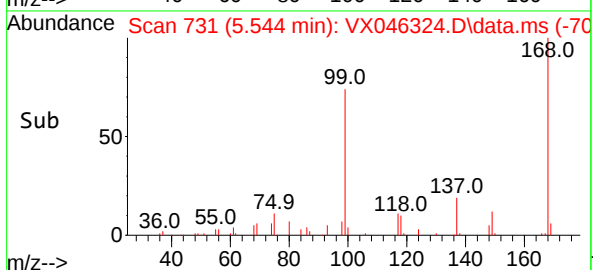
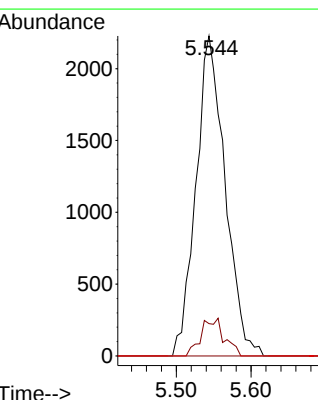
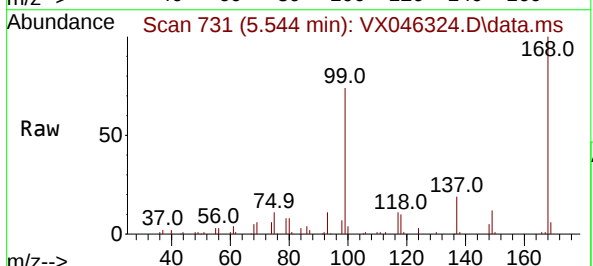
Tgt Ion: 75 Resp: 6053

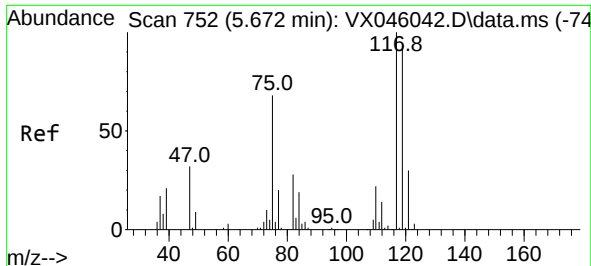
Ion Ratio Lower Upper

75 100

110 9.3 16.3 48.9#

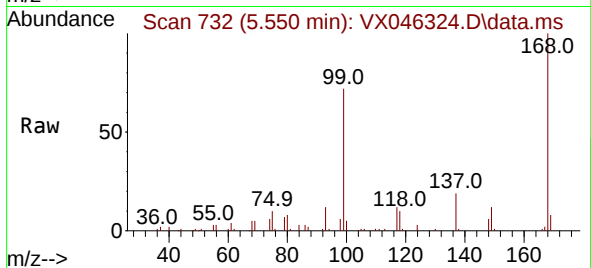
77 0.0 24.3 36.5#



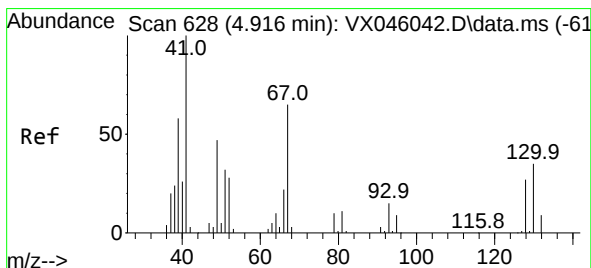
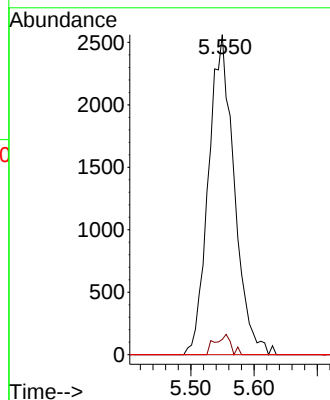
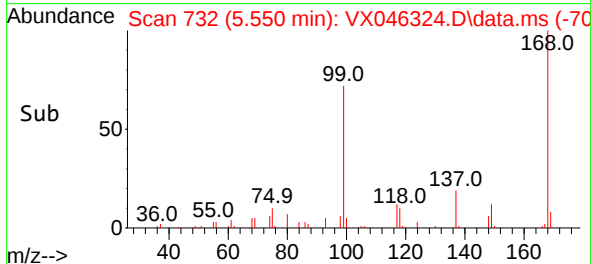


#38
Carbon Tetrachloride
Concen: 5.504 ug/l
RT: 5.550 min Scan# 711
Delta R.T. -0.122 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Instrument :
MSVOA_X
ClientSampleId :
RT3419

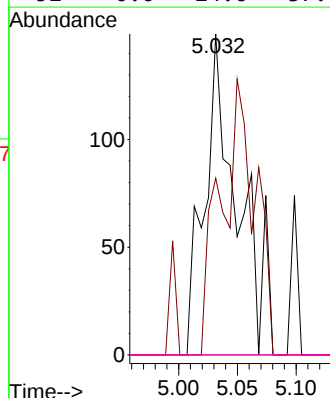
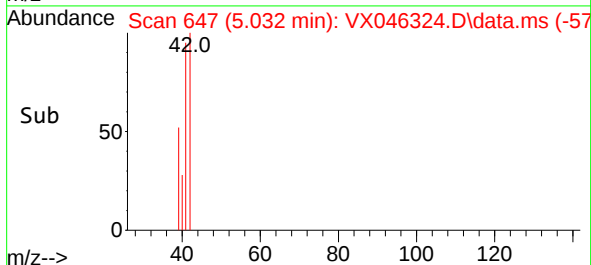
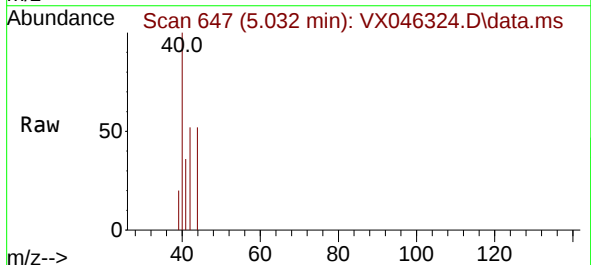


Tgt Ion:117 Resp: 7262
Ion Ratio Lower Upper
117 100
119 4.7 75.2 112.8#
121 0.0 24.2 36.4#



#41
Methacrylonitrile
Concen: 0.390 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.116 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion: 41 Resp: 296
Ion Ratio Lower Upper
41 100
39 88.2 47.2 70.8#
67 0.0 50.7 76.1#
52 0.0 24.6 37.0#

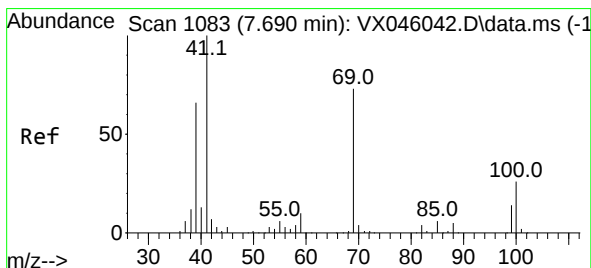
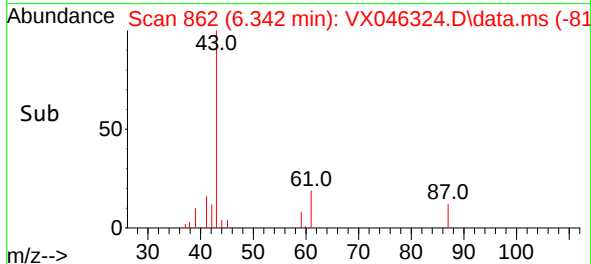
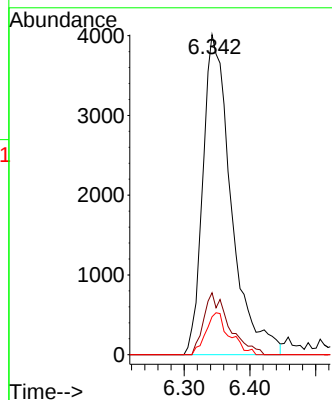
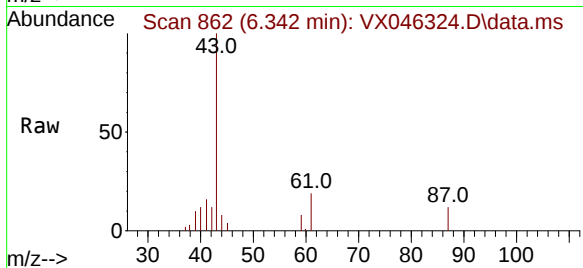




#43
Isopropyl Acetate
Concen: 5.427 ug/l
RT: 6.342 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

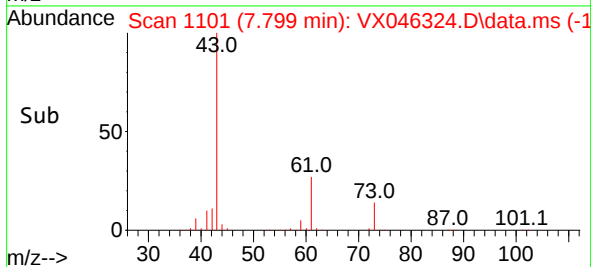
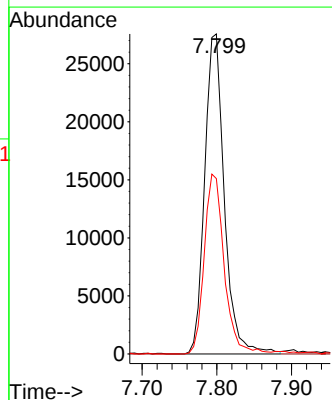
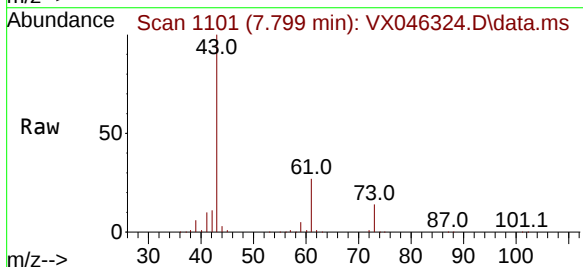
Instrument :
MSVOA_X
ClientSampleId :
RT3419

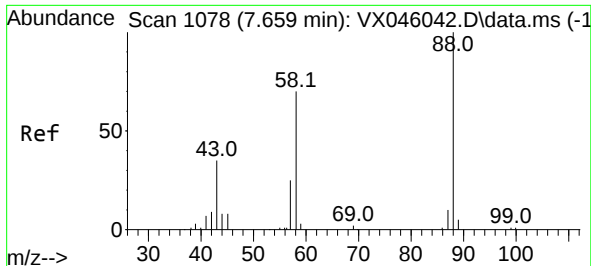
Tgt Ion: 43 Resp: 12011
Ion Ratio Lower Upper
43 100
61 17.3 14.3 21.5
87 11.0 9.5 14.3



#48
Methyl methacrylate
Concen: 44.472 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.110 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion: 41 Resp: 50265
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 57.2 51.7 77.5





#49

1,4-Dioxane

Concen: 3.075 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX046324.D

Acq: 22 May 2025 13:10

Instrument :

MSVOA_X

ClientSampleId :

RT3419

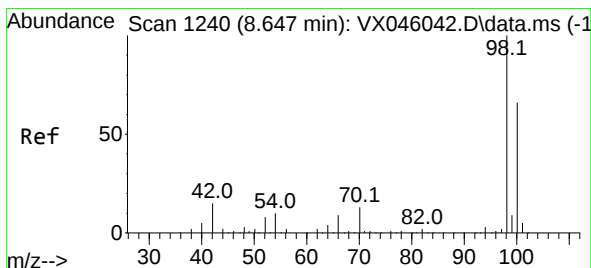
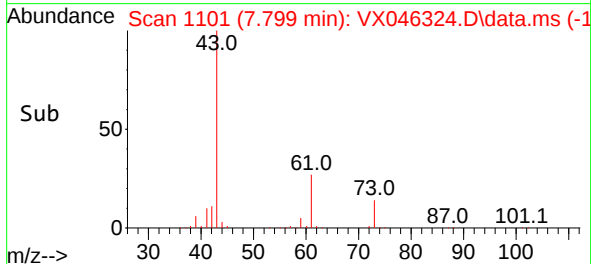
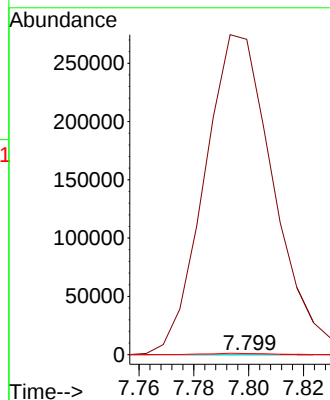
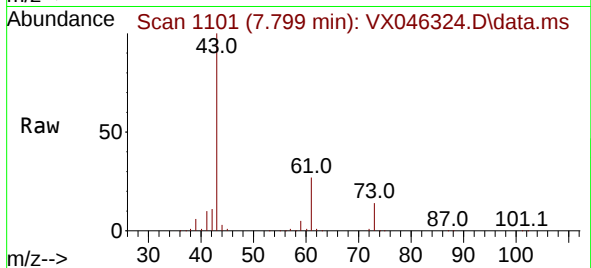
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 752200.0 33.4 50.2#

58 3134.8 58.6 88.0#



#50

Toluene-d8

Concen: 52.182 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX046324.D

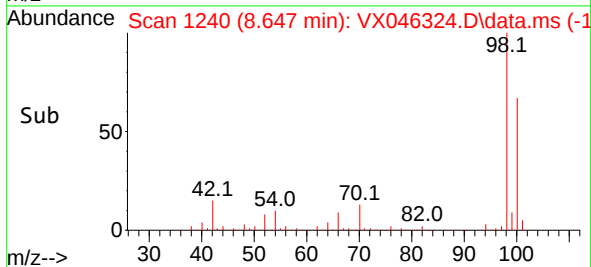
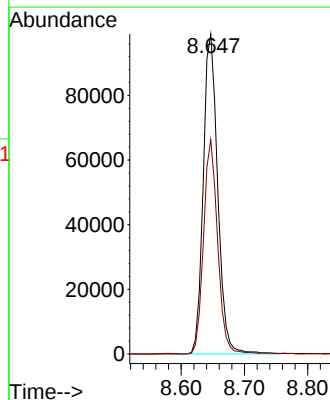
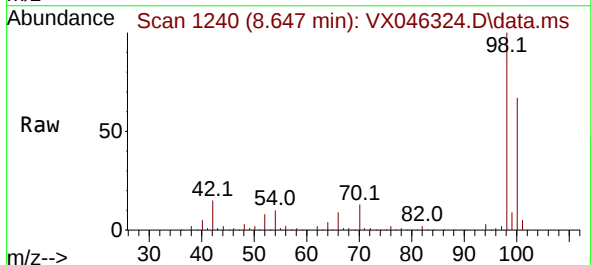
Acq: 22 May 2025 13:10

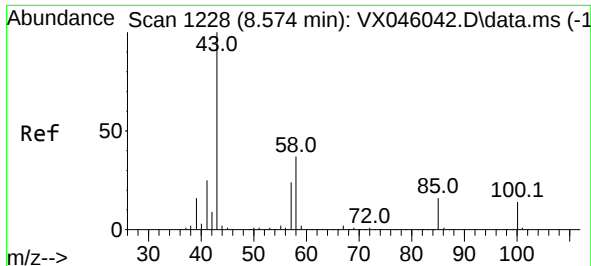
Tgt Ion: 98 Resp: 157835

Ion Ratio Lower Upper

98 100

100 65.4 53.5 80.3

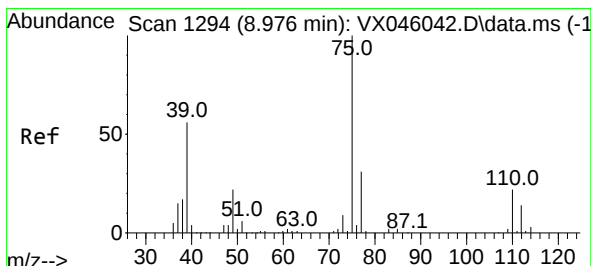
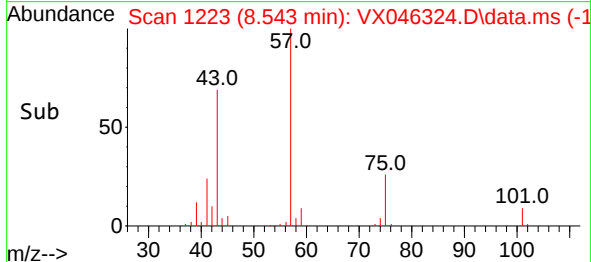
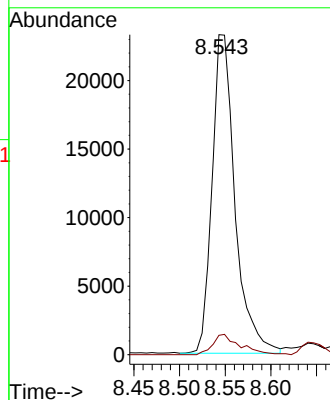
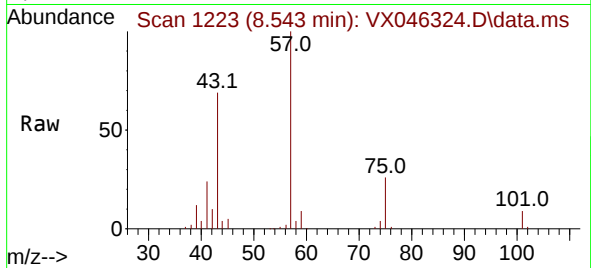




#51
4-Methyl-2-Pentanone
Concen: 27.612 ug/l
RT: 8.543 min Scan# 11
Delta R.T. -0.031 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

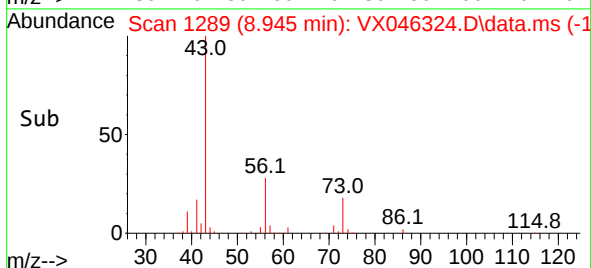
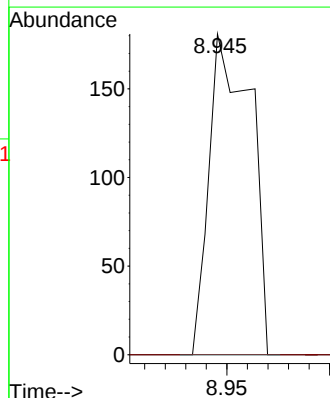
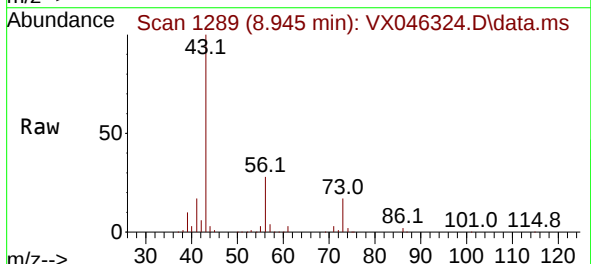
Instrument :
MSVOA_X
ClientSampleId :
RT3419

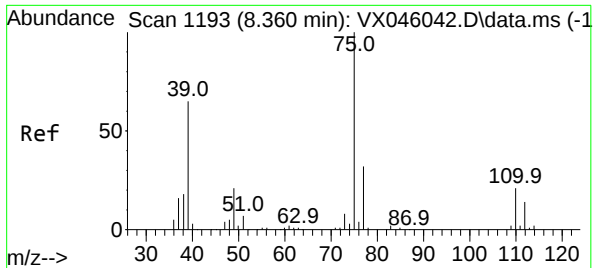
Tgt Ion: 43 Resp: 40563
Ion Ratio Lower Upper
43 100
58 7.6 28.9 43.3#



#53
t-1,3-Dichloropropene
Concen: 0.216 ug/l
RT: 8.945 min Scan# 1289
Delta R.T. -0.031 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion: 75 Resp: 255
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#

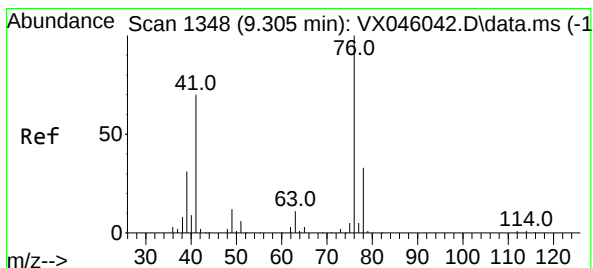
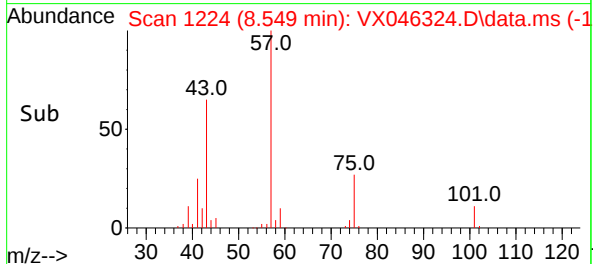
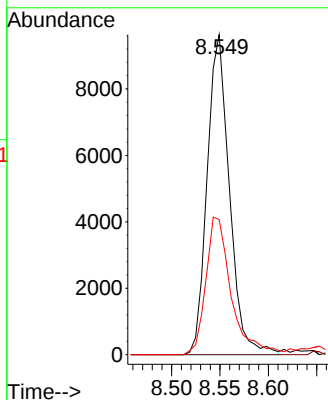
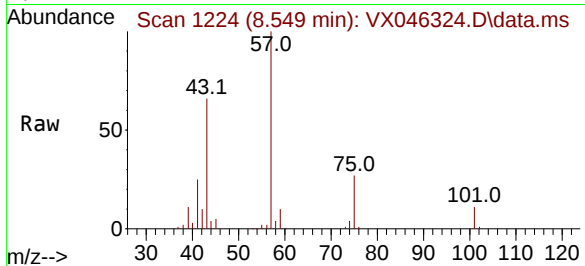




#54
 cis-1,3-Dichloropropene
 Concen: 11.828 ug/l
 RT: 8.549 min Scan# 1193
 Delta R.T. 0.189 min
 Lab File: VX046324.D
 Acq: 22 May 2025 13:10

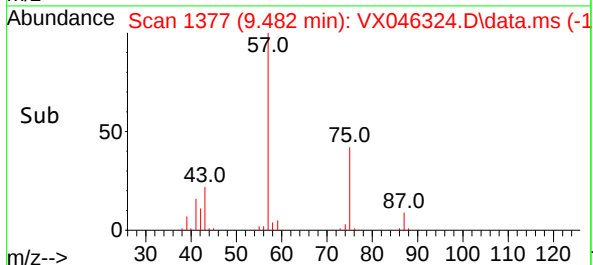
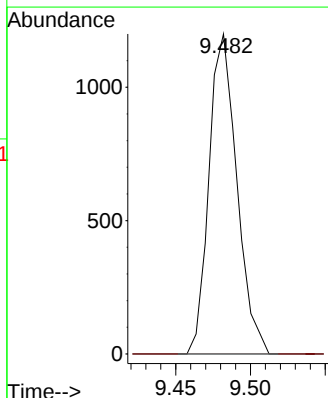
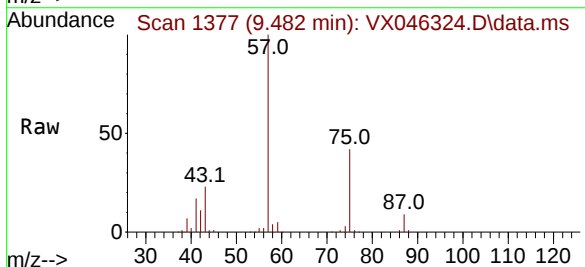
Instrument :
 MSVOA_X
 ClientSampleId :
 RT3419

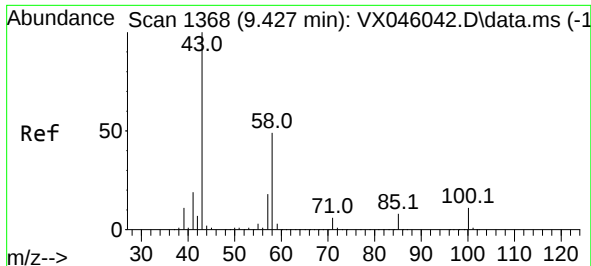
Tgt Ion: 75 Resp: 15437
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 42.2 52.2 78.4#



#57
 1,3-Dichloropropane
 Concen: 1.040 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX046324.D
 Acq: 22 May 2025 13:10

Tgt Ion: 76 Resp: 1553
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#

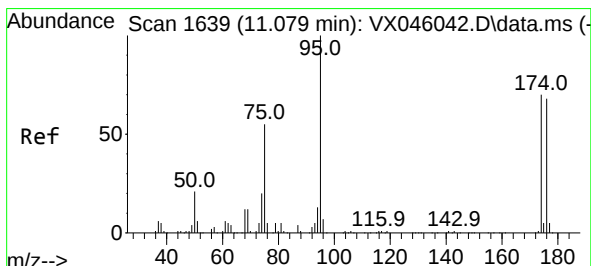
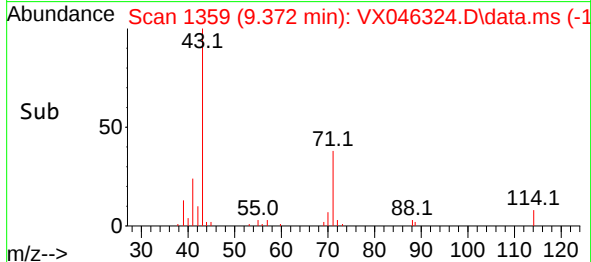
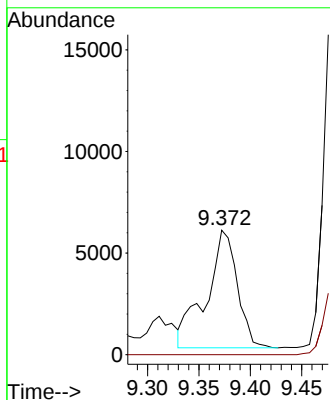
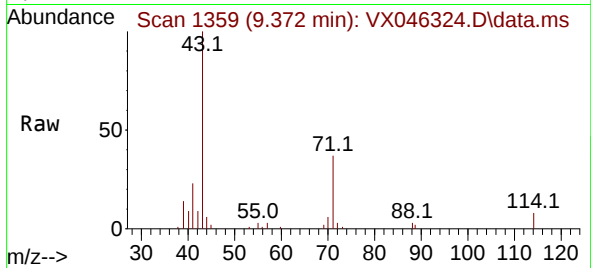




#59
2-Hexanone
Concen: 11.177 ug/l
RT: 9.372 min Scan# 1134
Delta R.T. -0.055 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

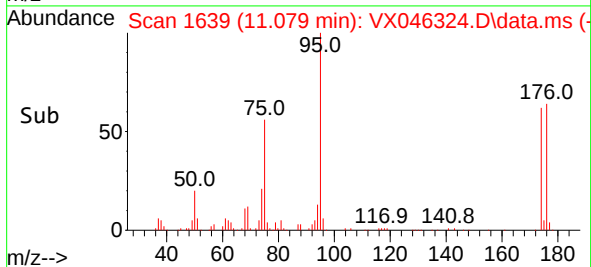
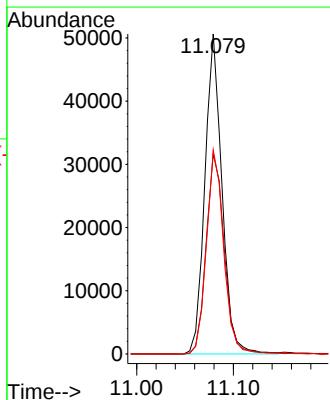
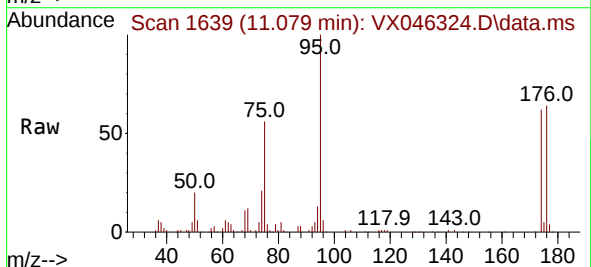
Instrument :
MSVOA_X
ClientSampleId :
RT3419

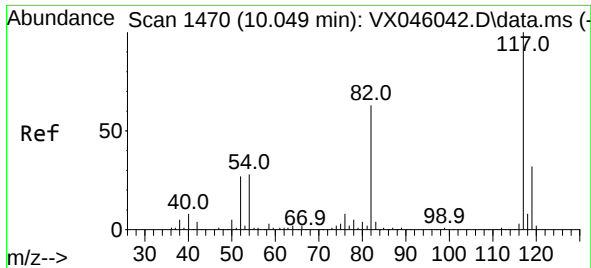
Tgt Ion: 43 Resp: 12148
Ion Ratio Lower Upper
43 100
58 0.0 24.9 74.6#



#62
4-Bromofluorobenzene
Concen: 53.687 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion: 95 Resp: 62290
Ion Ratio Lower Upper
95 100
174 66.3 0.0 135.8
176 64.6 0.0 131.4

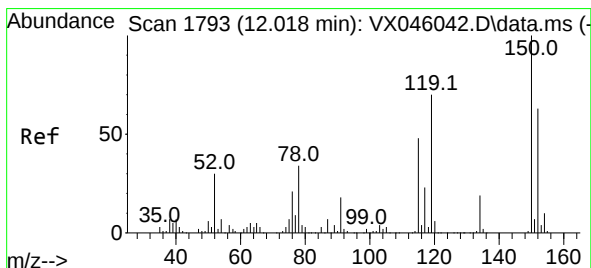
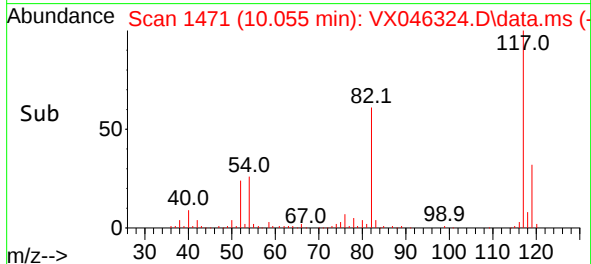
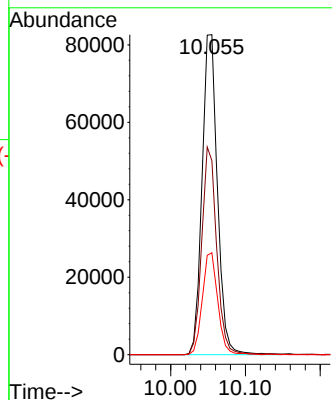
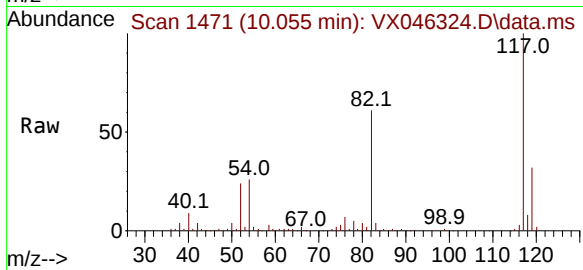




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

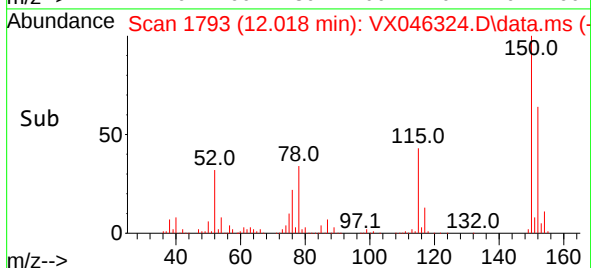
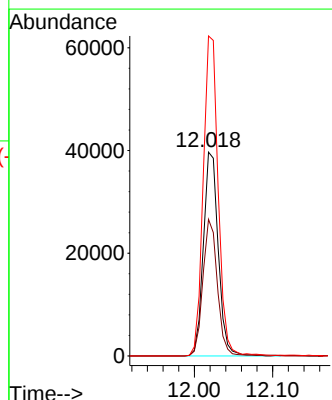
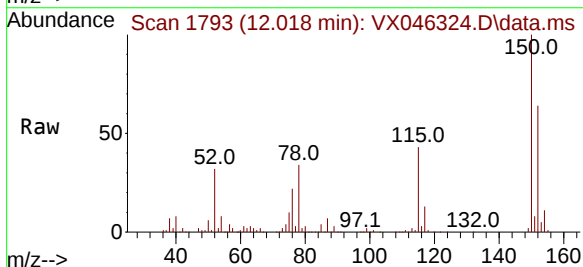
Instrument :
MSVOA_X
ClientSampleId :
RT3419

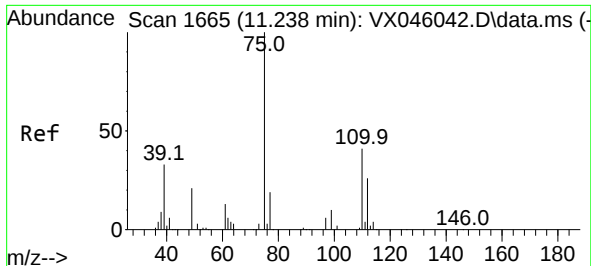
Tgt Ion:117 Resp: 118262
Ion Ratio Lower Upper
117 100
82 60.6 50.6 76.0
119 31.8 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion:152 Resp: 52335
Ion Ratio Lower Upper
152 100
115 65.2 46.9 140.7
150 157.7 0.0 351.0

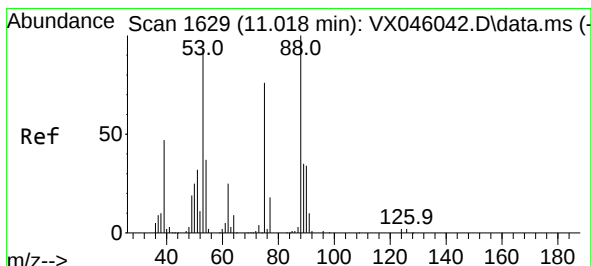
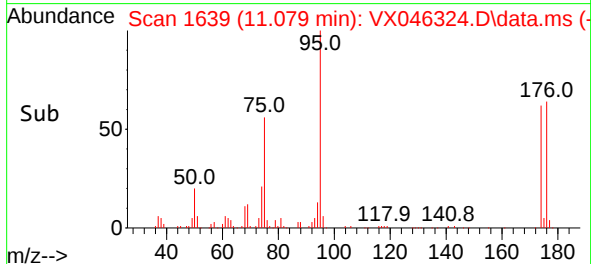
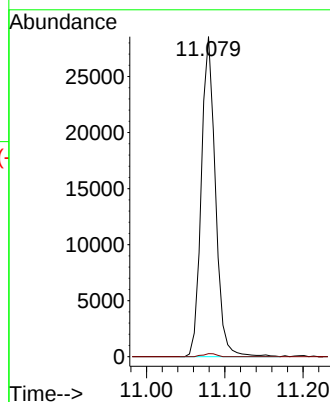
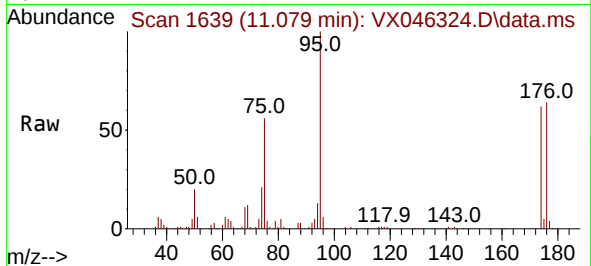




#76
1,2,3-Trichloropropane
Concen: 28.454 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Instrument :
MSVOA_X
ClientSampleId :
RT3419

Tgt Ion: 75 Resp: 35844
Ion Ratio Lower Upper
75 100
77 0.9 20.5 61.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 92.636 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046324.D
Acq: 22 May 2025 13:10

Tgt Ion: 75 Resp: 35844
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.0 37.0 55.6#

