

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052225\
 Data File : VX046316.D
 Acq On : 22 May 2025 10:03
 Operator : JC/MD
 Sample : Q2102-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LAW-25-0078

Quant Time: May 23 01:42:09 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	60804	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	120592	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	114992	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60259	53.158	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.320%	
35) Dibromofluoromethane	5.385	113	43568	50.171	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.340%	
50) Toluene-d8	8.647	98	152144	50.620	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.240%	
62) 4-Bromofluorobenzene	11.079	95	60528	52.500	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 105.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.307	50	324	0.359	ug/l	89
5) Bromomethane	1.593	94	97	0.249	ug/l #	4
11) Tert butyl alcohol	2.965	59	7189	45.180	ug/l	99
13) Acrolein	2.233	56	52	0.287	ug/l #	15
16) Acetone	2.380	43	11133	24.494	ug/l	93
17) Carbon Disulfide	2.508	76	609	0.356	ug/l #	76
18) Methyl Acetate	2.709	43	356	0.338	ug/l #	55
20) Methylene Chloride	2.788	84	307	0.352	ug/l	88
25) 2-Butanone	4.599	43	1264	1.916	ug/l	98
30) Chloroform	5.080	83	924	0.598	ug/l #	71
31) Cyclohexane	5.544	56	1714	1.269	ug/l #	9
36) 1,1-Dichloropropene	5.544	75	5914	5.069	ug/l #	51
38) Carbon Tetrachloride	5.678	117	719	0.548	ug/l #	76
48) Methyl methacrylate	7.616	41	312	0.278	ug/l #	38
51) 4-Methyl-2-Pentanone	8.580	43	718	0.492	ug/l #	84
59) 2-Hexanone	9.238	43	2910	2.694	ug/l	73
74) N-amyl acetate	10.860	43	5292	2.753	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	11.158	83	986	0.723	ug/l #	29
76) 1,2,3-Trichloropropane	11.079	75	34638	28.804	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	34638	93.775	ug/l #	1
88) 1,4-Dichlorobenzene	12.042	146	355	0.211	ug/l #	43
89) n-Butylbenzene	12.335	91	663	0.228	ug/l #	72
93) 1,2,4-Trichlorobenzene	13.585	180	373	0.393	ug/l	91
94) Hexachlorobutadiene	13.731	225	89	0.215	ug/l #	20
95) Naphthalene	13.780	128	2385	0.685	ug/l #	92
96) 1,2,3-Trichlorobenzene	13.957	180	452	0.461	ug/l	94

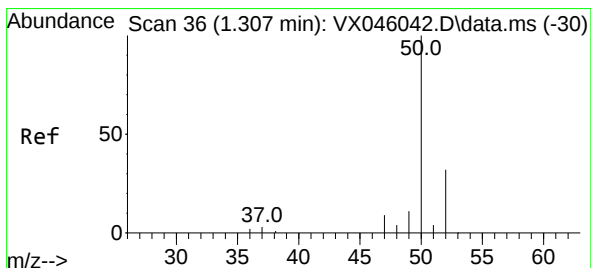
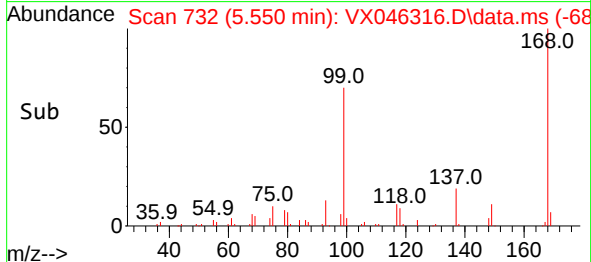
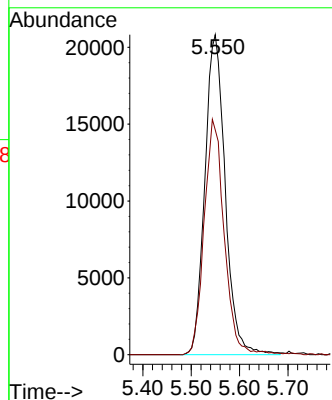
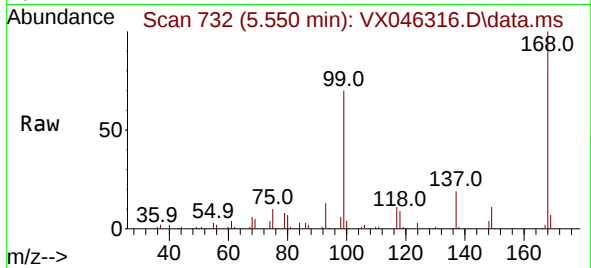
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

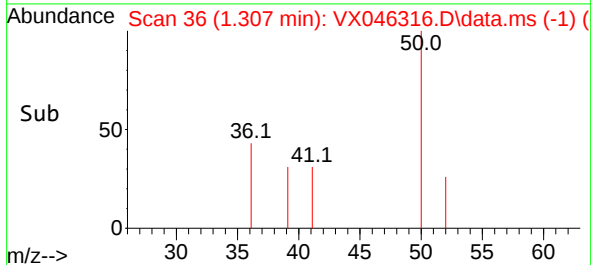
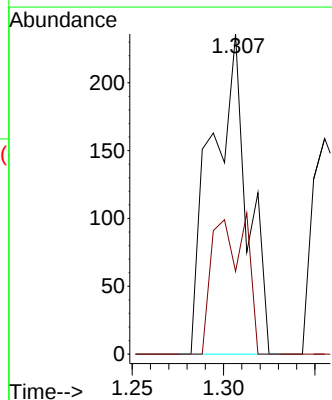
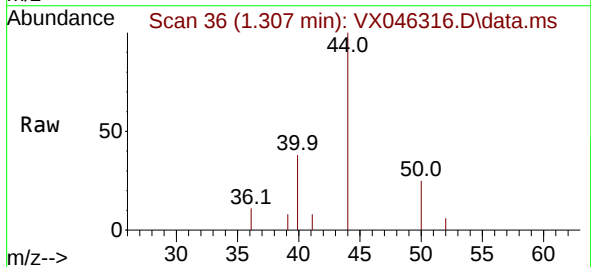
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

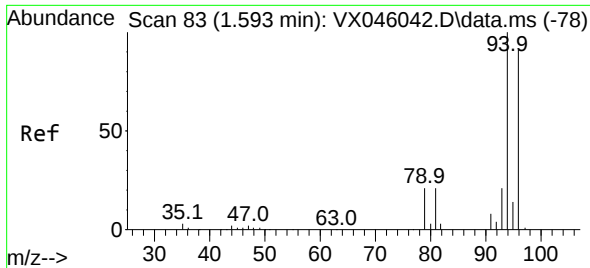
Tgt Ion:168 Resp: 60804
Ion Ratio Lower Upper
168 100
99 70.3 54.9 82.3



#3
Chloromethane
Concen: 0.359 ug/l
RT: 1.307 min Scan# 36
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 50 Resp: 324
Ion Ratio Lower Upper
50 100
52 25.8 25.4 38.2

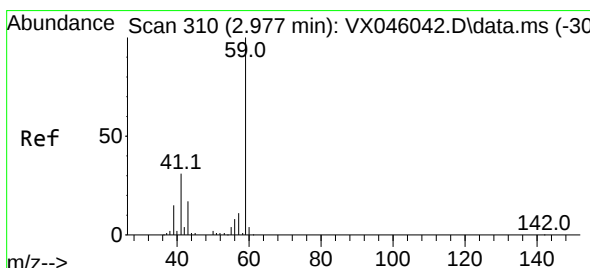
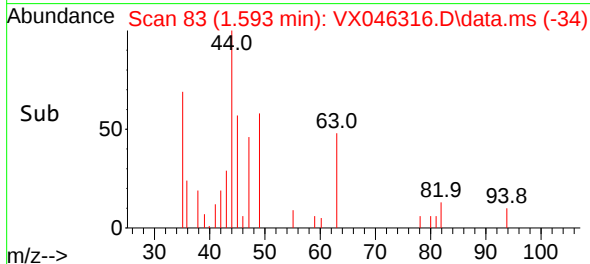
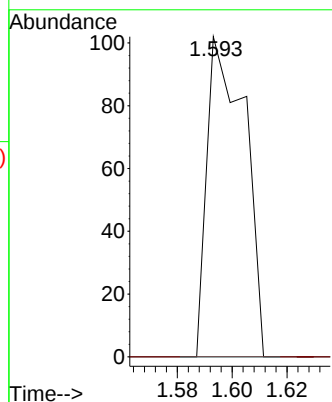
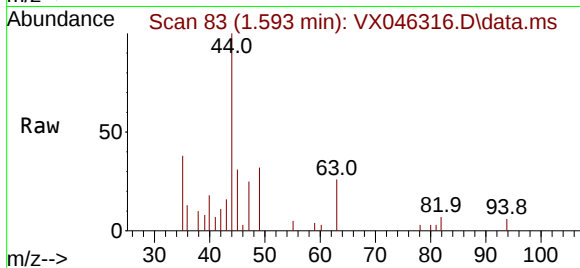




#5
Bromomethane
Concen: 0.249 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

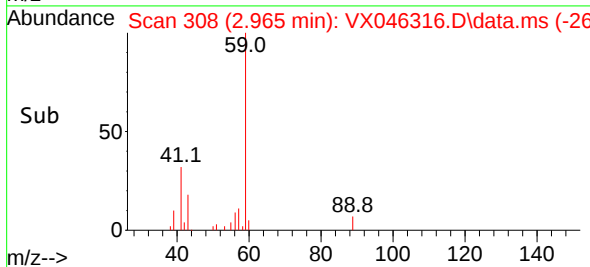
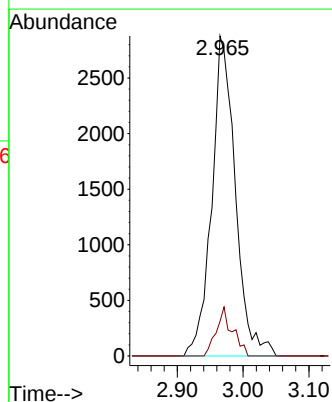
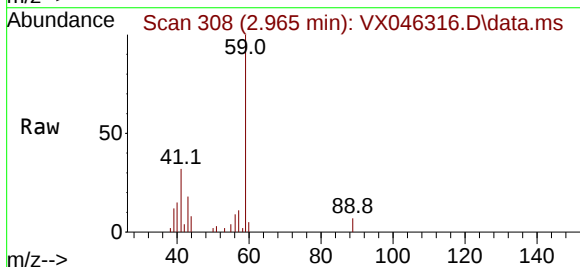
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

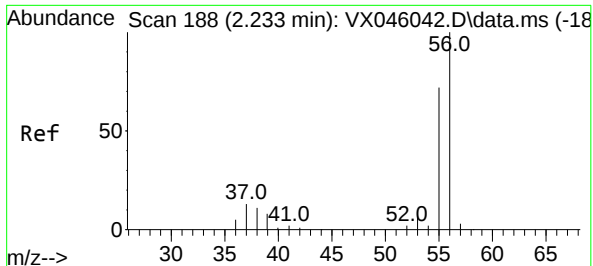
Tgt Ion: 94 Resp: 97
Ion Ratio Lower Upper
94 100
96 0.0 72.8 109.2#



#11
Tert butyl alcohol
Concen: 45.180 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.012 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 59 Resp: 7189
Ion Ratio Lower Upper
59 100
57 10.4 8.6 12.8

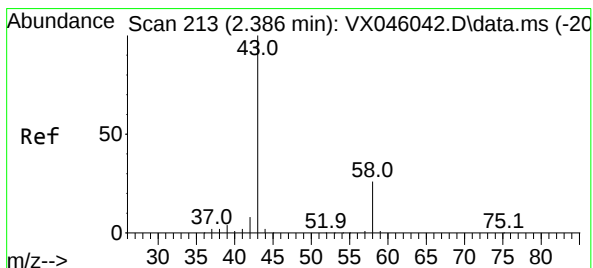
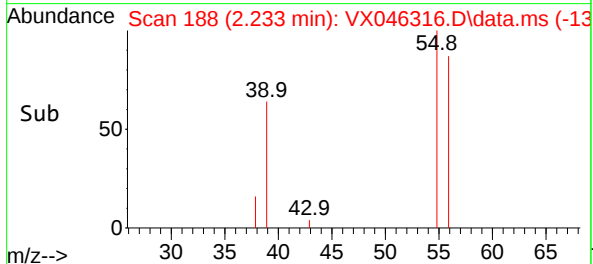
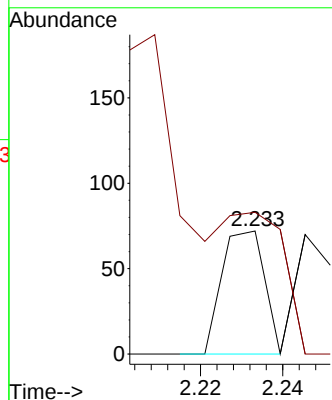
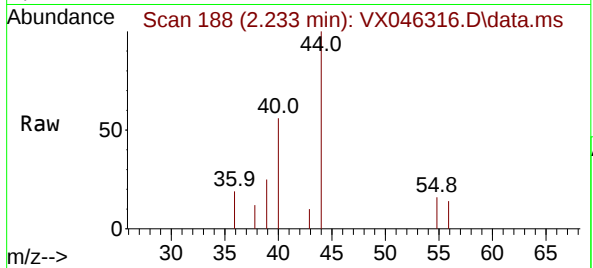




#13
Acrolein
Concen: 0.287 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

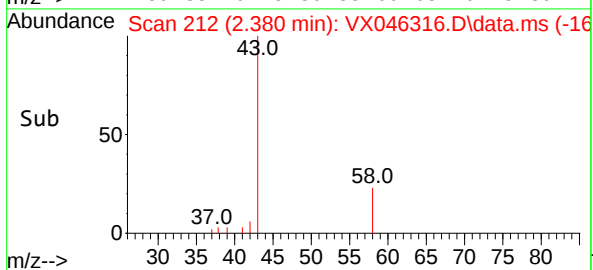
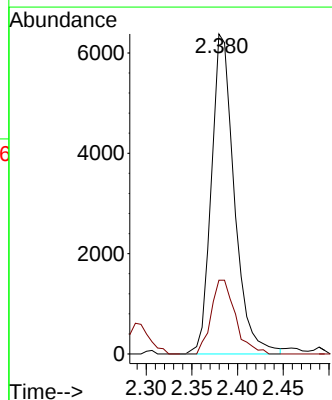
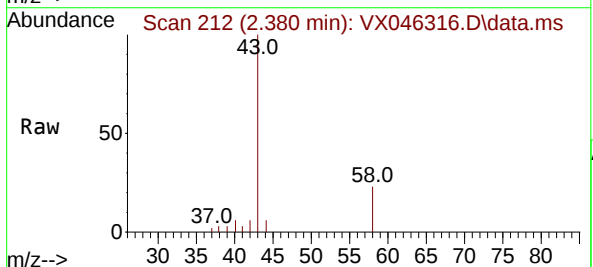
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

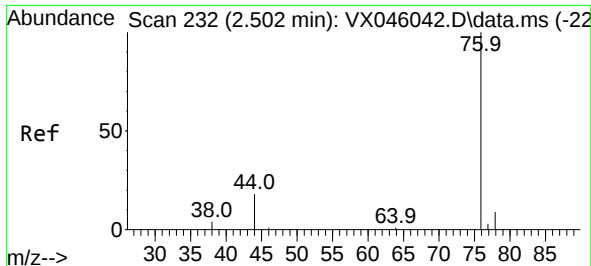
Tgt Ion: 56 Resp: 52
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#16
Acetone
Concen: 24.494 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 43 Resp: 11133
Ion Ratio Lower Upper
43 100
58 23.1 21.2 31.8

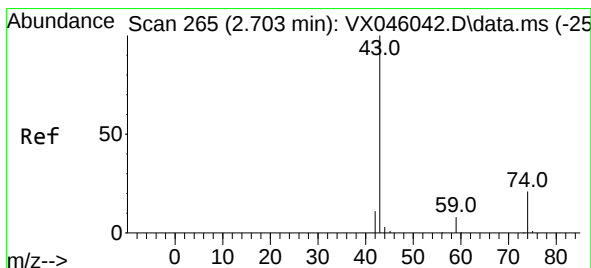
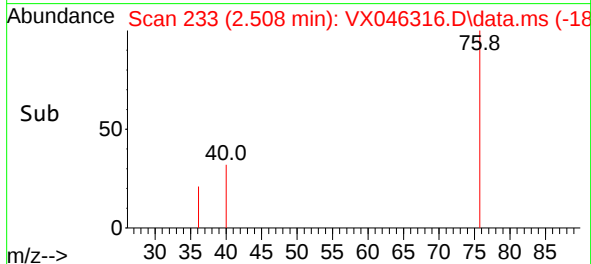
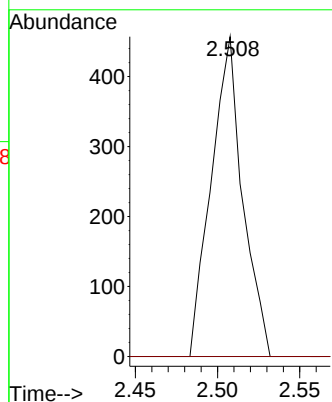
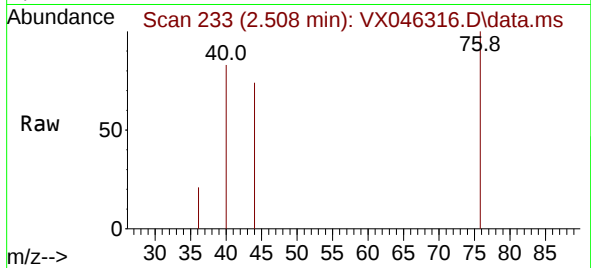




#17
Carbon Disulfide
Concen: 0.356 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

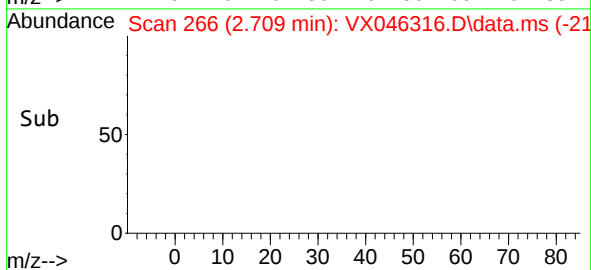
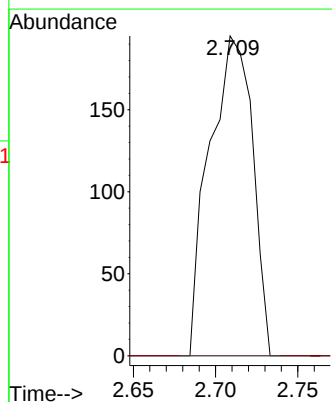
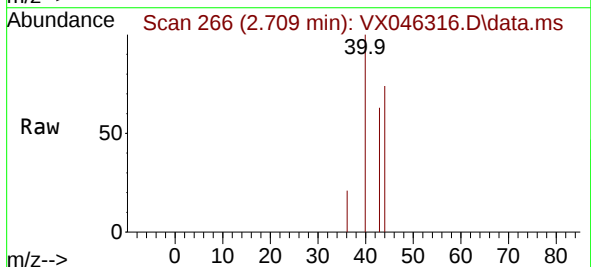
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

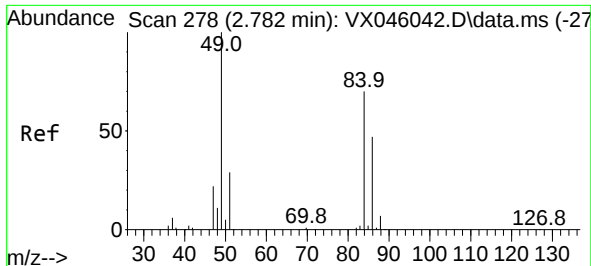
Tgt Ion: 76 Resp: 609
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#18
Methyl Acetate
Concen: 0.338 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 43 Resp: 356
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#

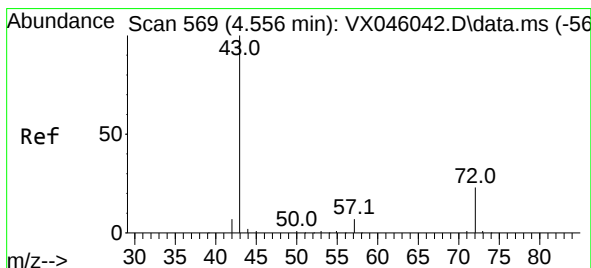
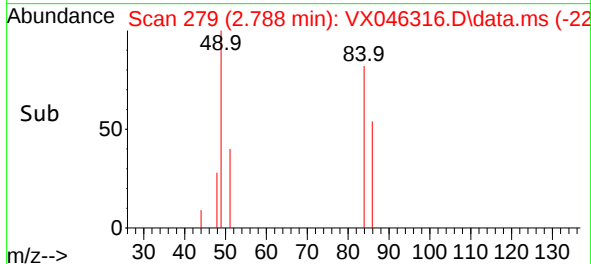
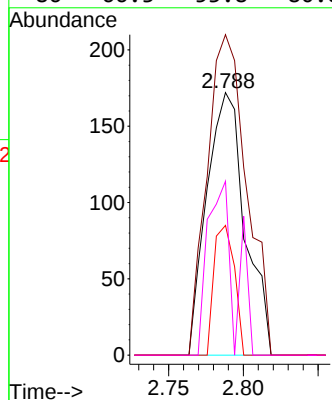
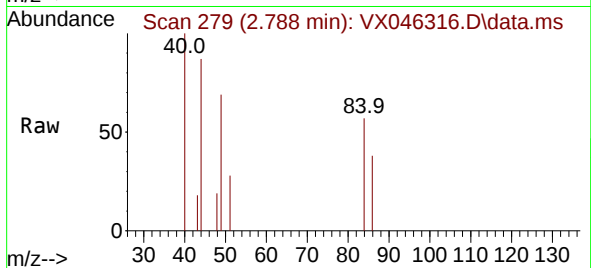




#20
Methylene Chloride
Concen: 0.352 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

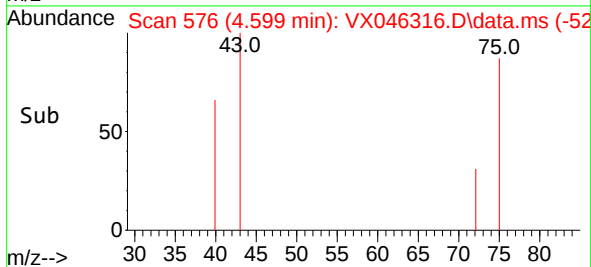
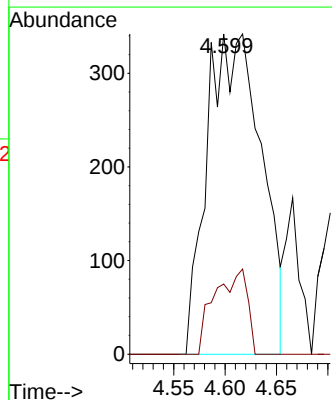
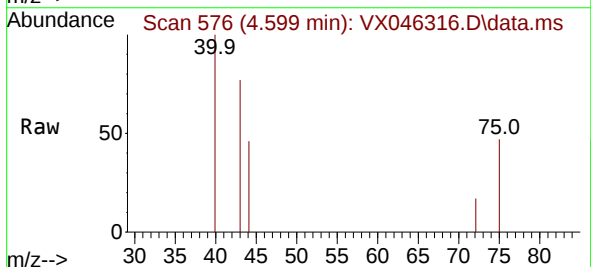
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

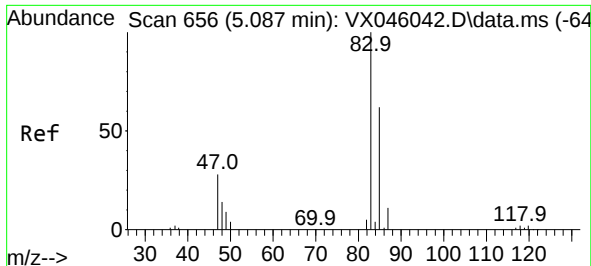
Tgt Ion: 84	Resp:	307	
Ion	Ratio	Lower	Upper
84	100		
49	122.1	113.9	170.9
51	49.4	33.5	50.3
86	66.3	53.8	80.8



#25
2-Butanone
Concen: 1.916 ug/l
RT: 4.599 min Scan# 576
Delta R.T. 0.043 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 43	Resp:	1264	
Ion Ratio	Lower	Upper	
43 100			
72 21.9	18.4	27.6	





#30

Chloroform

Concen: 0.598 ug/l

RT: 5.080 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX046316.D

Acq: 22 May 2025 10:03

Instrument :

MSVOA_X

ClientSampleId :

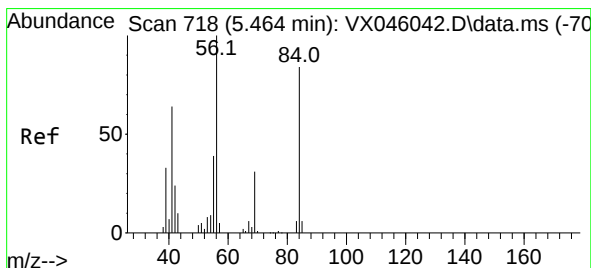
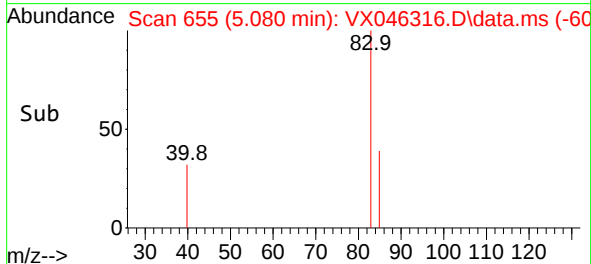
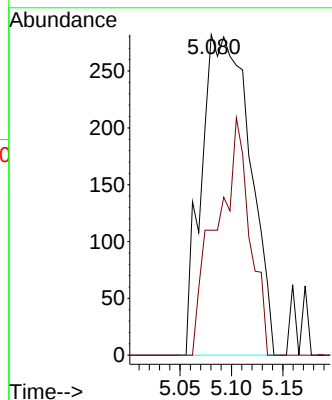
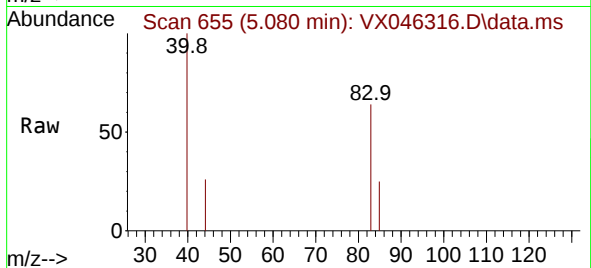
LAW-25-0078

Tgt Ion: 83 Resp: 924

Ion Ratio Lower Upper

83 100

85 39.0 49.3 73.9#



#31

Cyclohexane

Concen: 1.269 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX046316.D

Acq: 22 May 2025 10:03

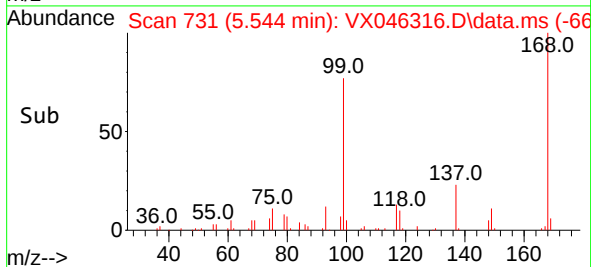
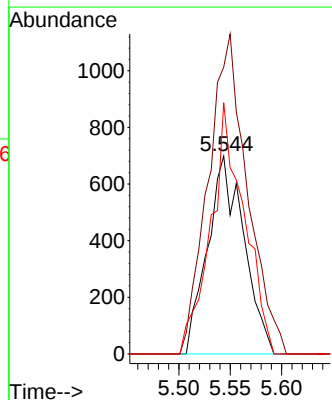
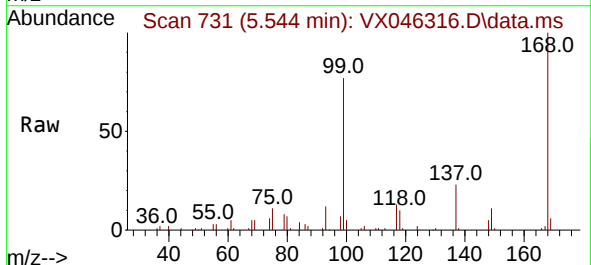
Tgt Ion: 56 Resp: 1714

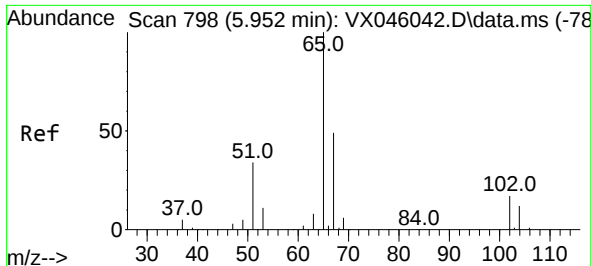
Ion Ratio Lower Upper

56 100

69 144.9 24.4 36.6#

84 126.9 66.9 100.3#

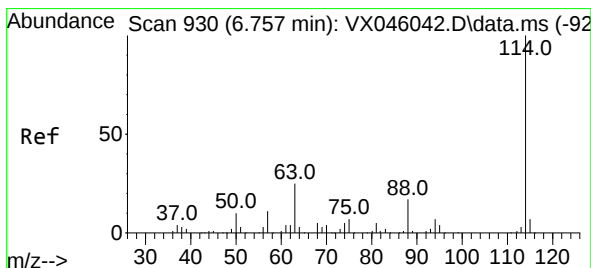
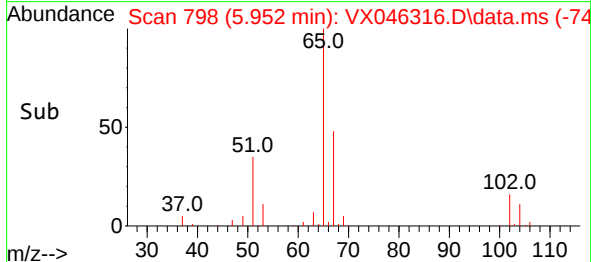
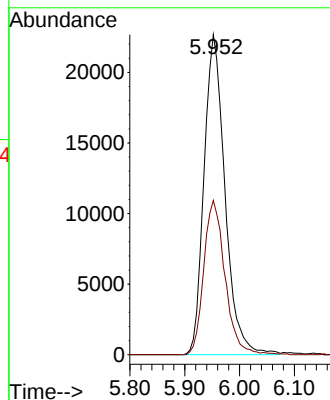
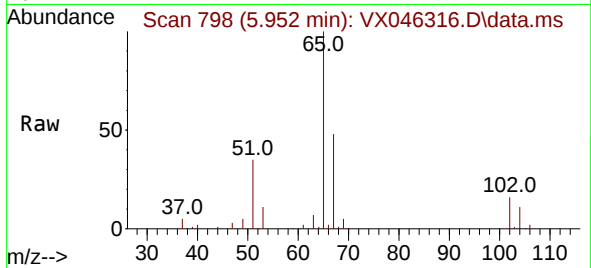




#33
 1,2-Dichloroethane-d4
 Concen: 53.158 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. -0.000 min
 Lab File: VX046316.D
 Acq: 22 May 2025 10:03

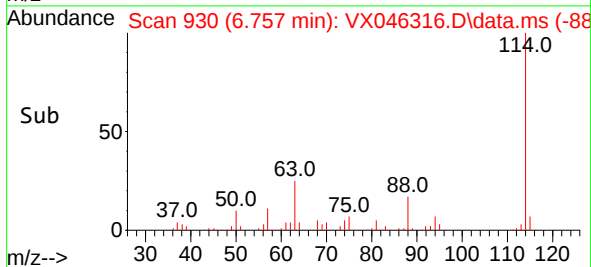
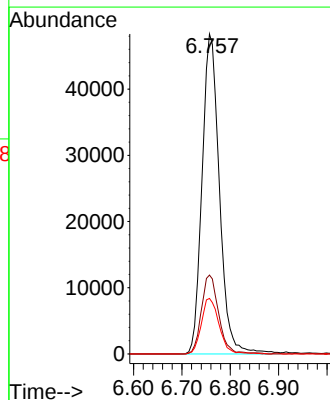
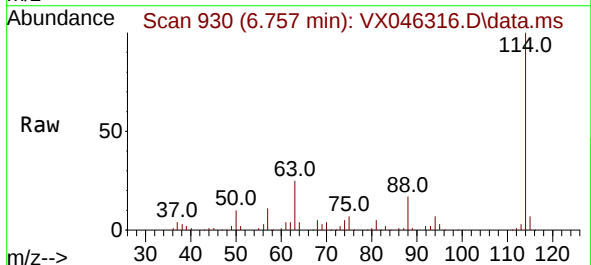
Instrument :
 MSVOA_X
 ClientSampleId :
 LAW-25-0078

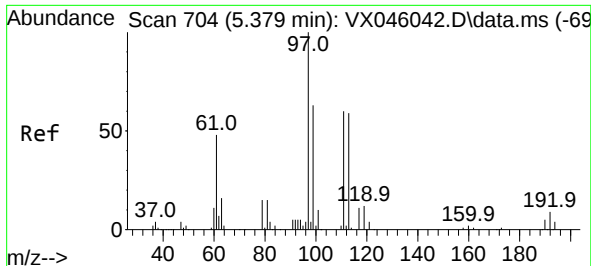
Tgt Ion: 65 Resp: 60259
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 99.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 930
 Delta R.T. -0.000 min
 Lab File: VX046316.D
 Acq: 22 May 2025 10:03

Tgt Ion: 114 Resp: 120592
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 49.2
 88 17.4 0.0 33.6

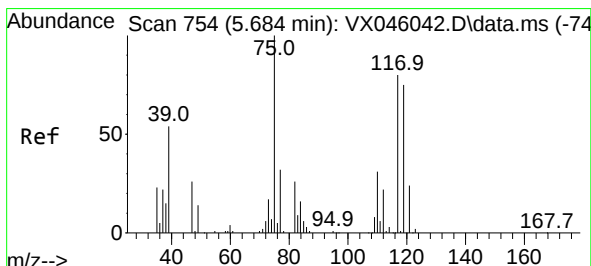
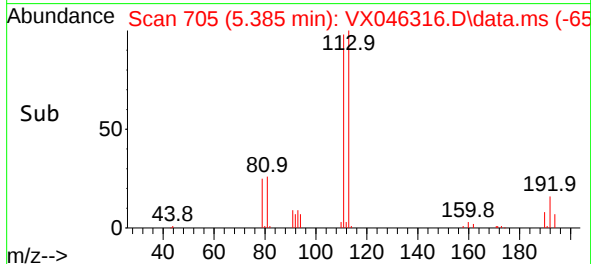
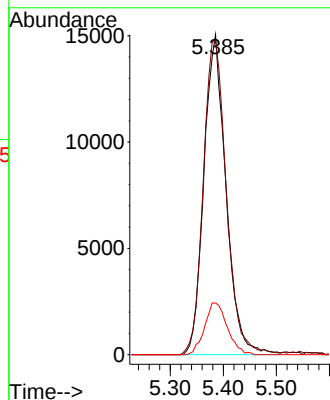
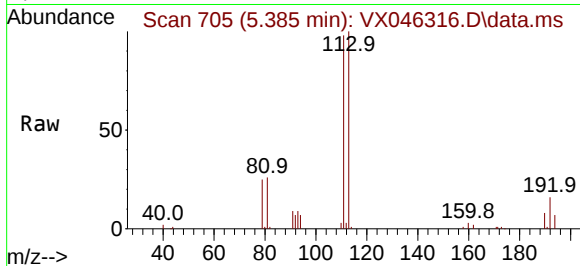




#35
Dibromofluoromethane
Concen: 50.171 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

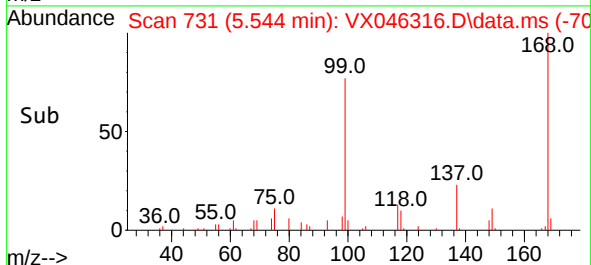
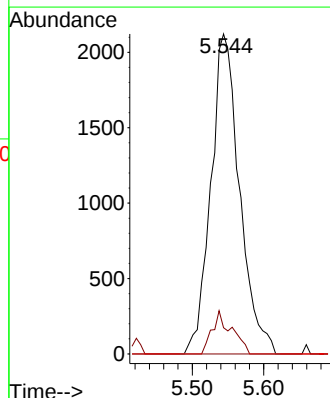
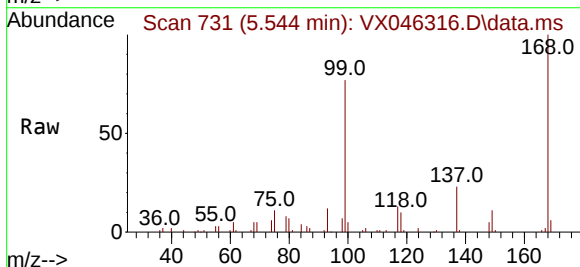
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

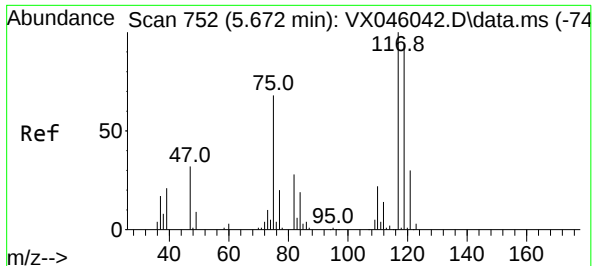
Tgt Ion:113 Resp: 43568
Ion Ratio Lower Upper
113 100
111 102.6 83.1 124.7
192 16.6 13.3 19.9



#36
1,1-Dichloropropene
Concen: 5.069 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 75 Resp: 5914
Ion Ratio Lower Upper
75 100
110 9.1 16.3 48.9#
77 0.0 24.3 36.5#

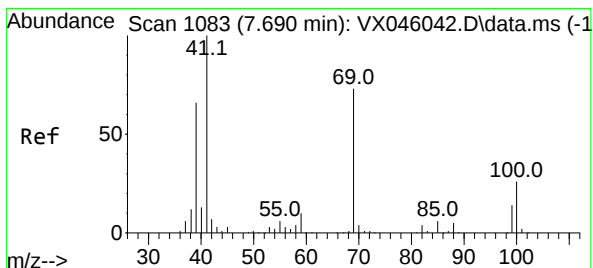
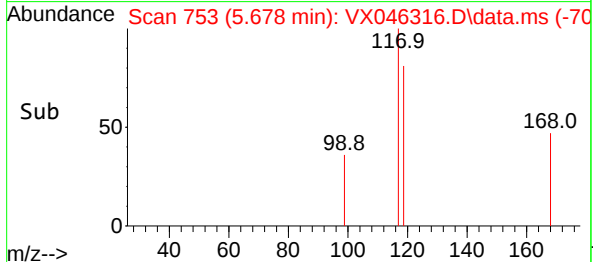
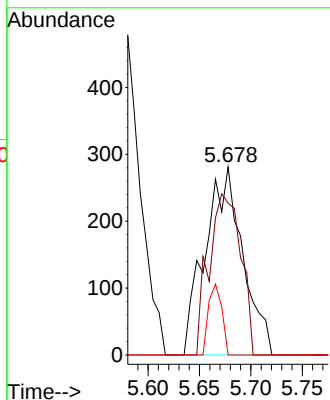
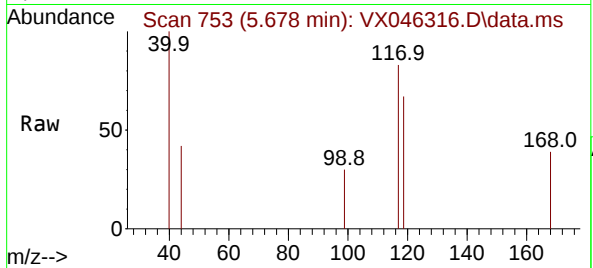




#38
Carbon Tetrachloride
Concen: 0.548 ug/l
RT: 5.678 min Scan# 719
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

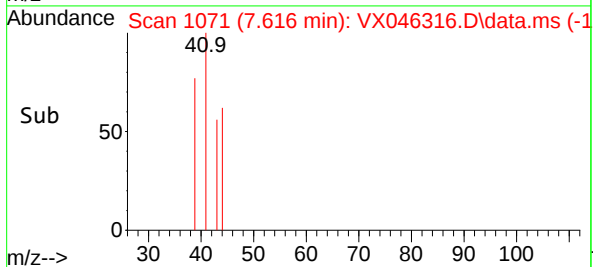
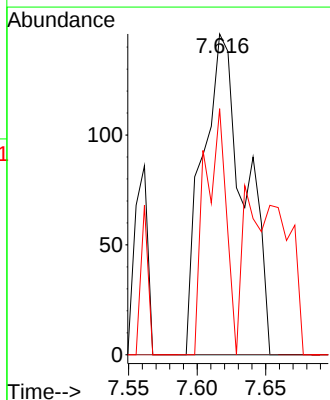
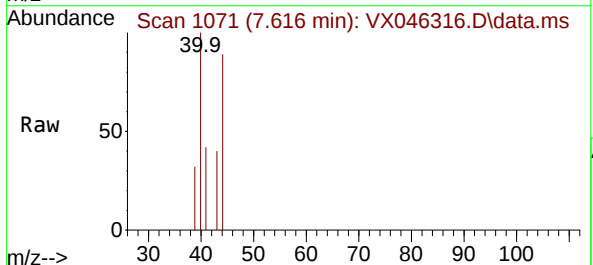
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

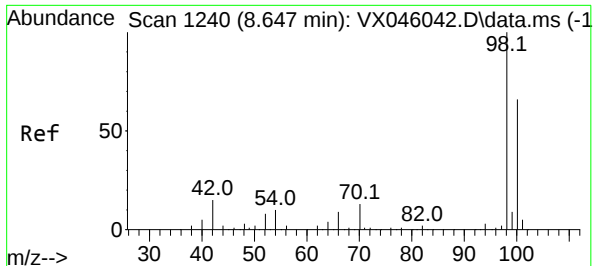
Tgt Ion:117 Resp: 719
Ion Ratio Lower Upper
117 100
119 80.8 75.2 112.8
121 0.0 24.2 36.4#



#48
Methyl methacrylate
Concen: 0.278 ug/l
RT: 7.616 min Scan# 1071
Delta R.T. -0.073 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 41 Resp: 312
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 38.5 51.7 77.5#

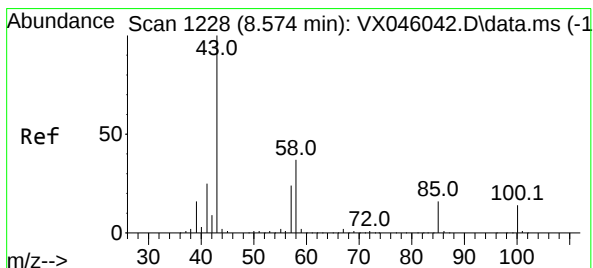
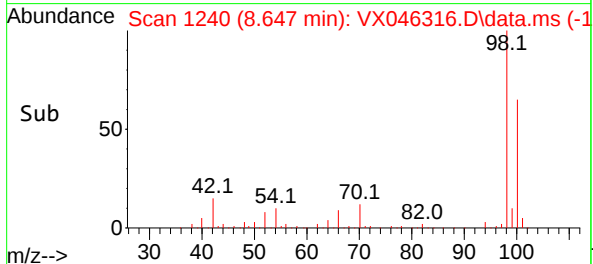
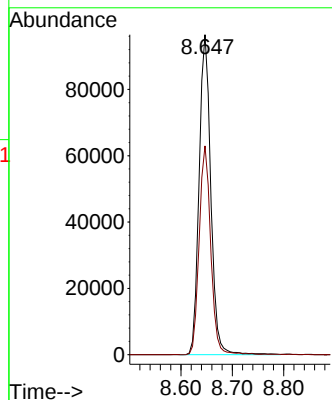
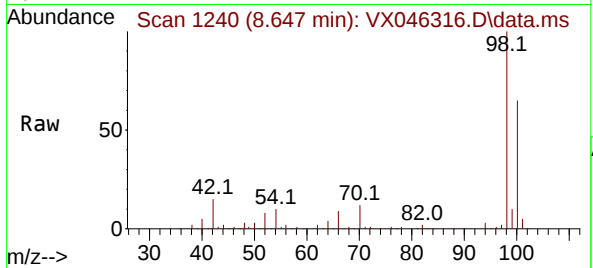




#50
Toluene-d8
Concen: 50.620 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

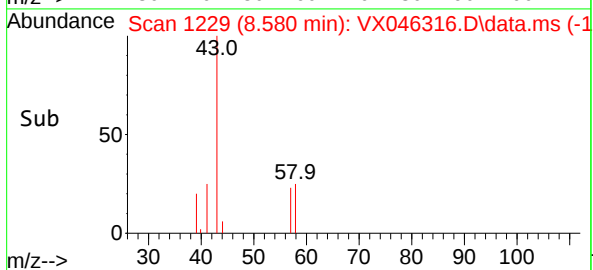
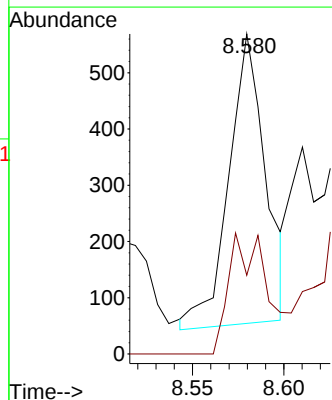
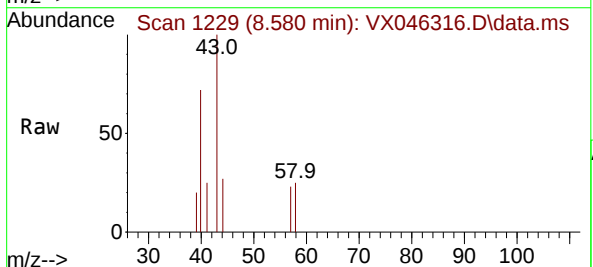
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

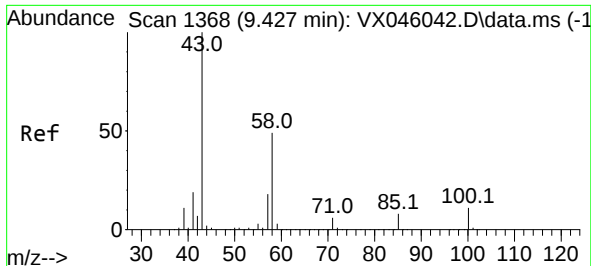
Tgt Ion: 98 Resp: 152144
Ion Ratio Lower Upper
98 100
100 64.5 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 0.492 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 43 Resp: 718
Ion Ratio Lower Upper
43 100
58 45.4 28.9 43.3#

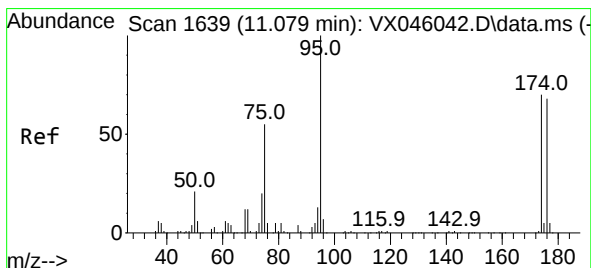
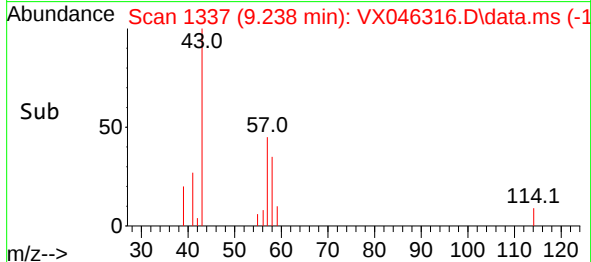
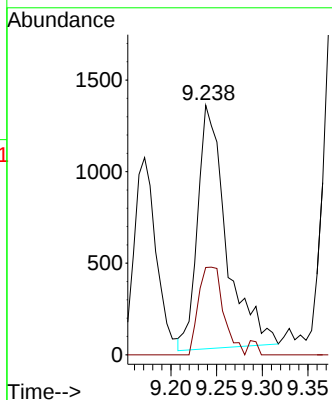
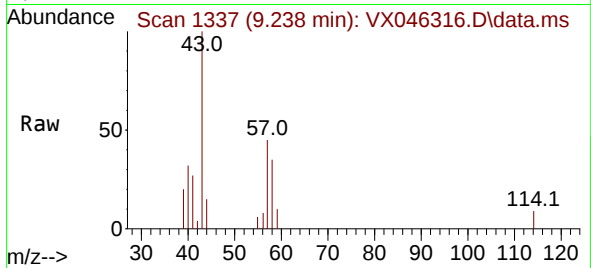




#59
2-Hexanone
Concen: 2.694 ug/l
RT: 9.238 min Scan# 11
Delta R.T. -0.189 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

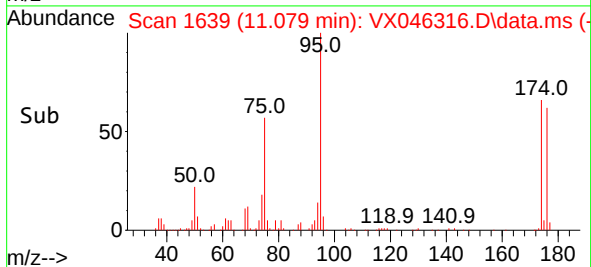
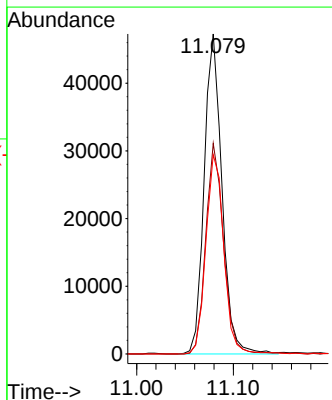
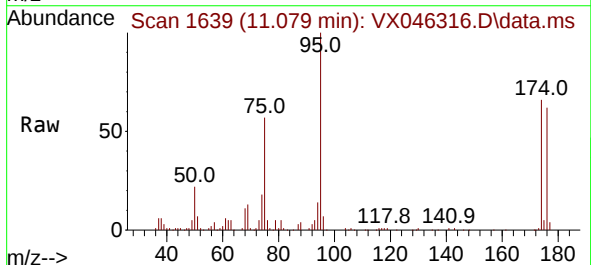
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

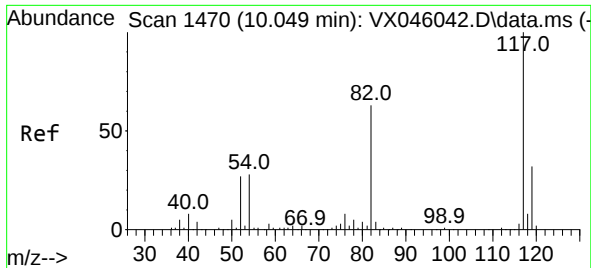
Tgt Ion: 43 Resp: 2910
Ion Ratio Lower Upper
43 100
58 31.0 24.9 74.6



#62
4-Bromofluorobenzene
Concen: 52.500 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 95 Resp: 60528
Ion Ratio Lower Upper
95 100
174 66.0 0.0 135.8
176 63.0 0.0 131.4

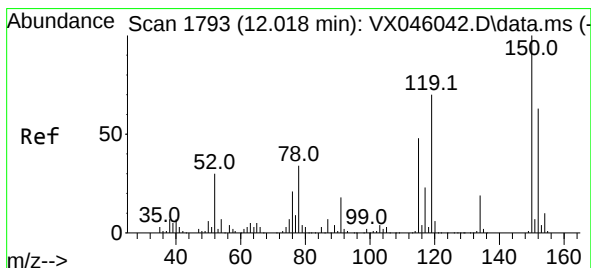
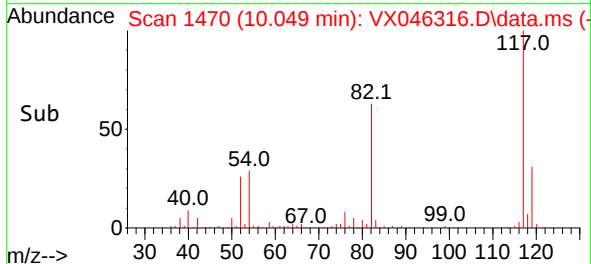
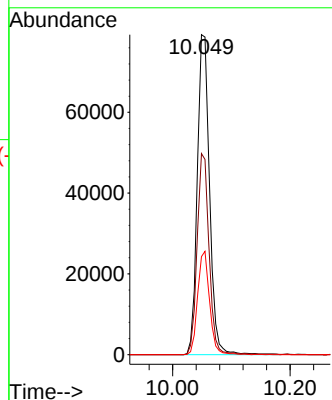
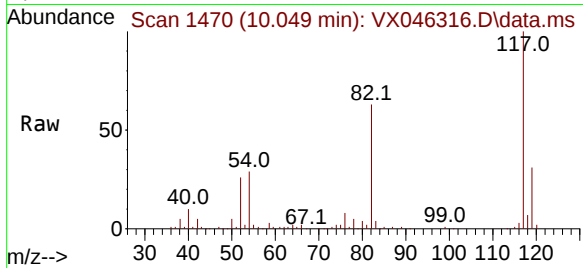




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

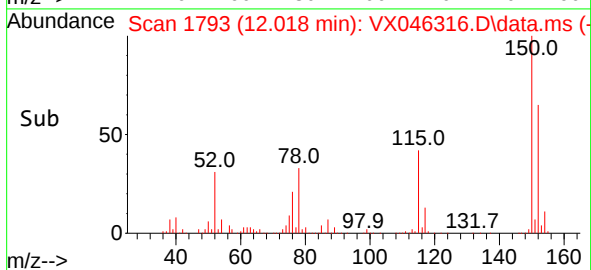
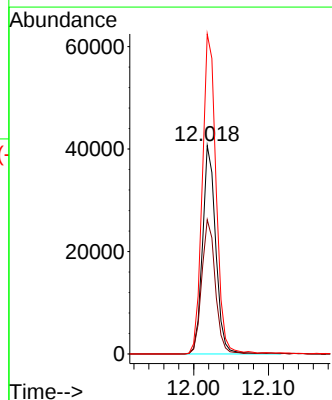
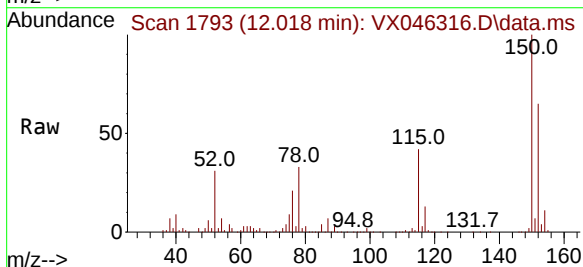
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

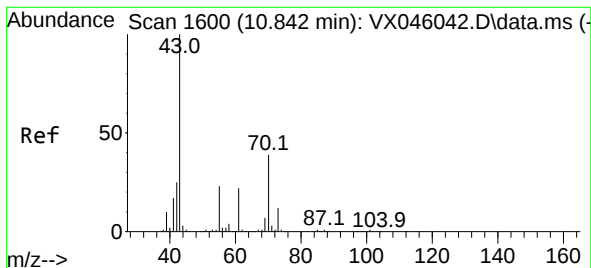
Tgt Ion:117 Resp: 114992
Ion Ratio Lower Upper
117 100
82 62.9 50.6 76.0
119 30.6 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion:152 Resp: 49960
Ion Ratio Lower Upper
152 100
115 66.2 46.9 140.7
150 160.3 0.0 351.0





#74

N-amy1 acetate

Concen: 2.753 ug/l

RT: 10.860 min Scan# 1

Delta R.T. 0.018 min

Lab File: VX046316.D

Acq: 22 May 2025 10:03

Instrument :

MSVOA_X

ClientSampleId :

LAW-25-0078

Tgt Ion: 43 Resp: 5292

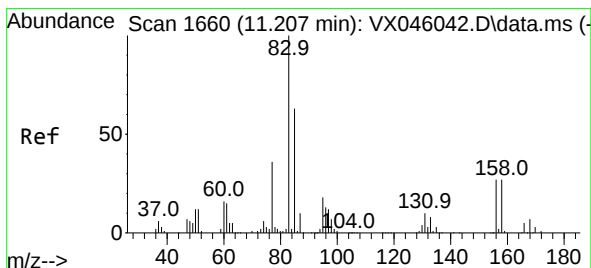
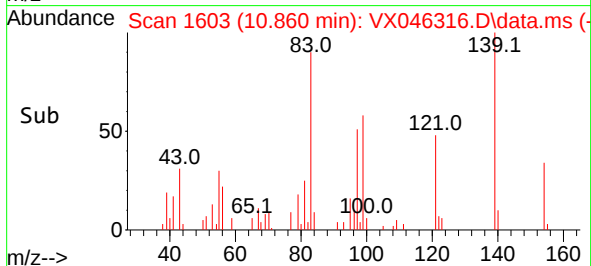
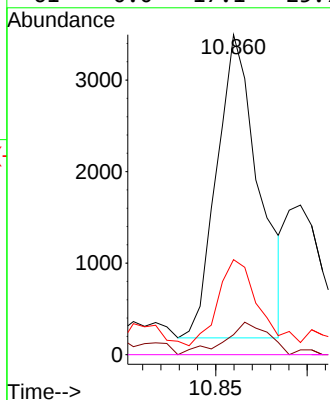
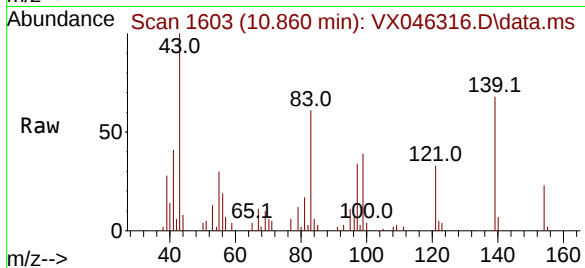
Ion Ratio Lower Upper

43 100

70 11.7 30.9 46.3#

55 27.2 18.7 28.1

61 0.0 17.1 25.7#



#75

1,1,2,2-Tetrachloroethane

Concen: 0.723 ug/l

RT: 11.158 min Scan# 1652

Delta R.T. -0.049 min

Lab File: VX046316.D

Acq: 22 May 2025 10:03

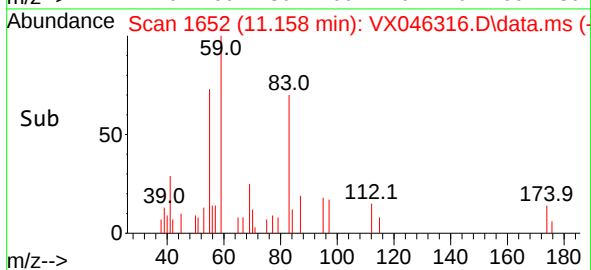
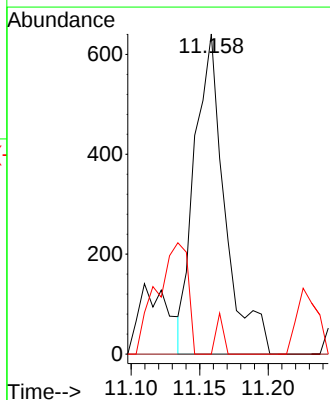
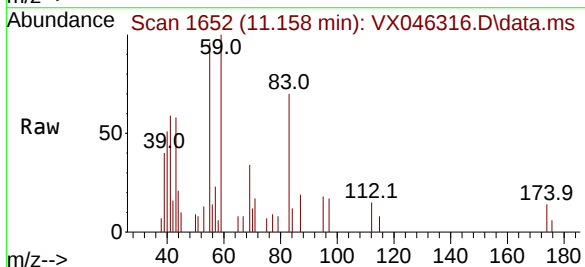
Tgt Ion: 83 Resp: 986

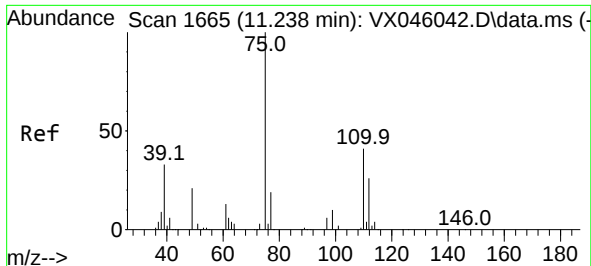
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 3.0 31.9 95.7#

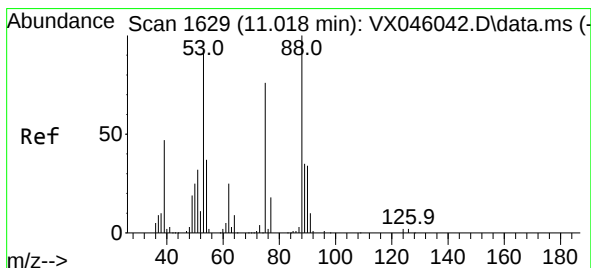
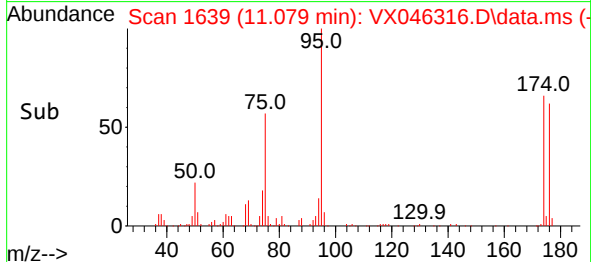
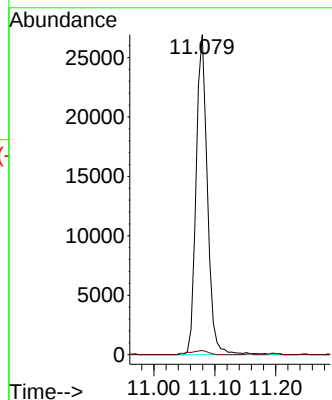
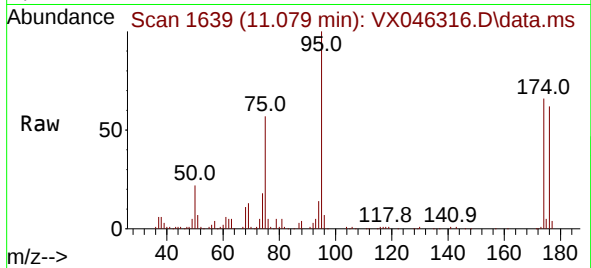




#76
1,2,3-Trichloropropane
Concen: 28.804 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

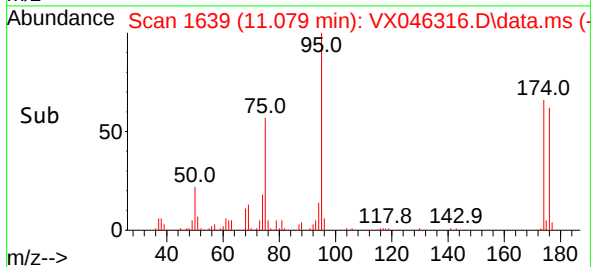
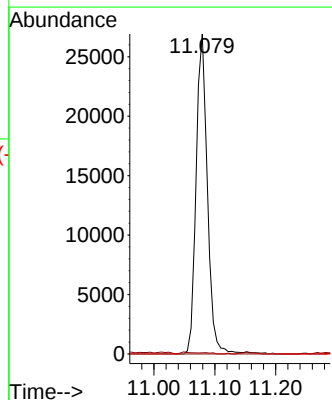
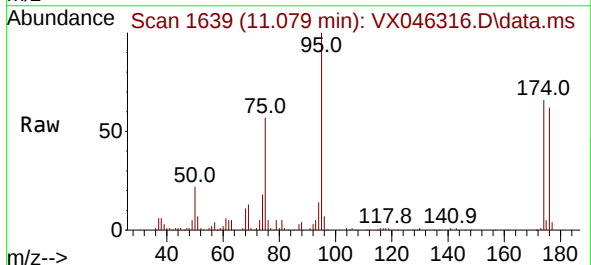
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

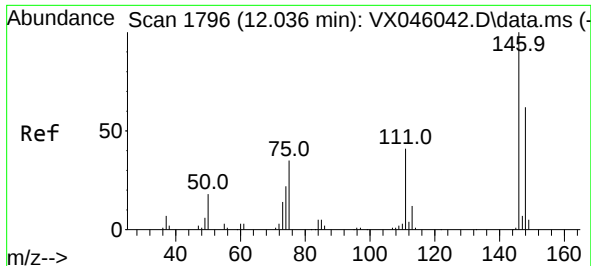
Tgt Ion: 75 Resp: 34638
Ion Ratio Lower Upper
75 100
77 2.1 20.5 61.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.775 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 75 Resp: 34638
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.0 37.0 55.6#

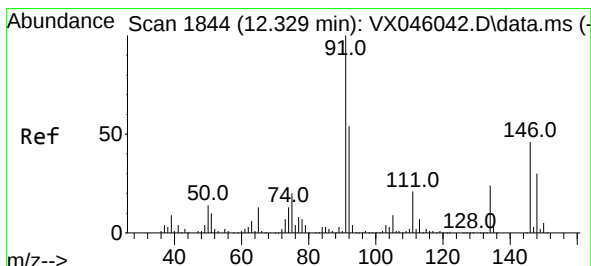
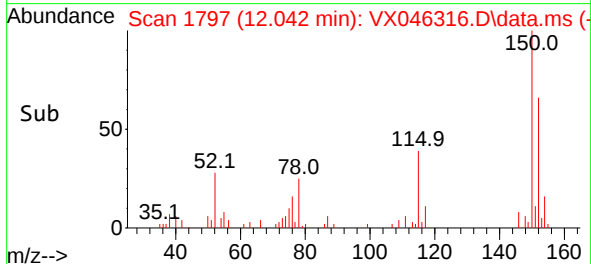
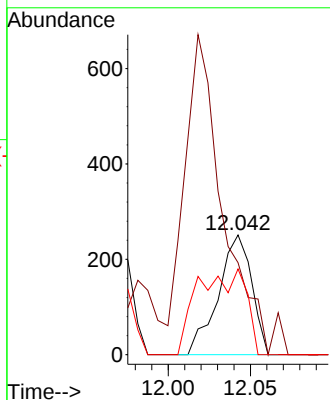
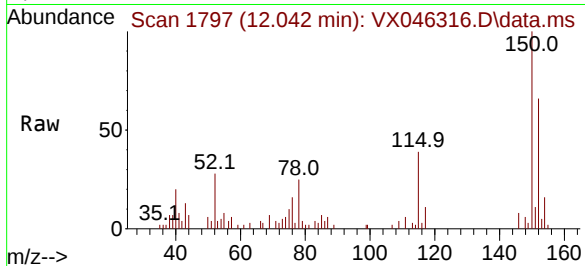




#88
1,4-Dichlorobenzene
Concen: 0.211 ug/l
RT: 12.042 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

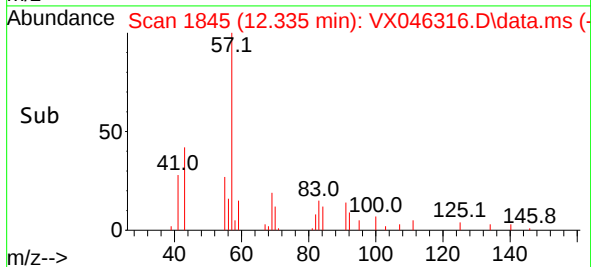
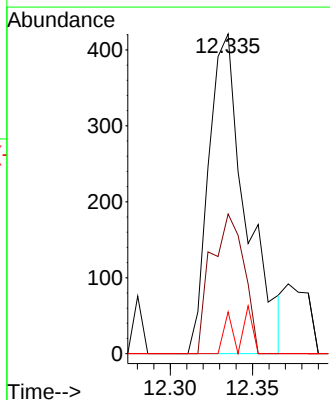
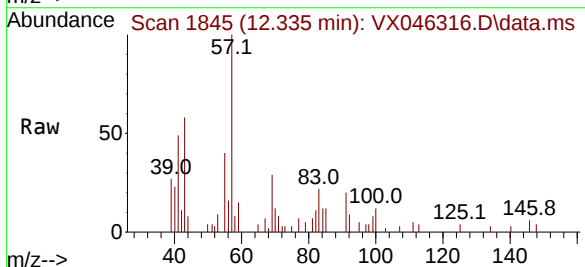
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

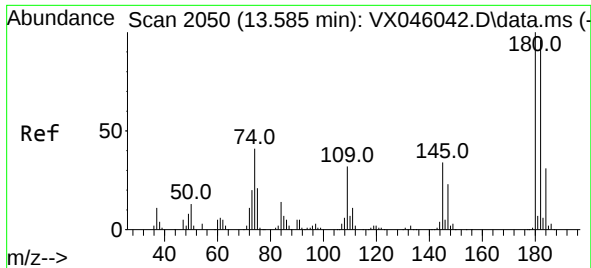
Tgt Ion:146 Resp: 355
Ion Ratio Lower Upper
146 100
111 0.0 21.3 63.9#
148 102.5 31.9 95.5#



#89
n-Butylbenzene
Concen: 0.228 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion: 91 Resp: 663
Ion Ratio Lower Upper
91 100
92 38.3 26.9 80.7
134 3.0 11.8 35.3#

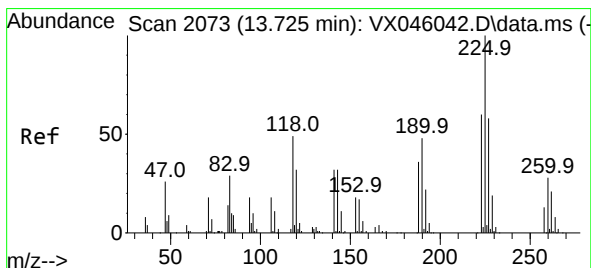
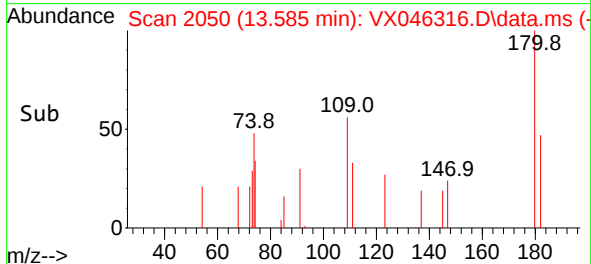
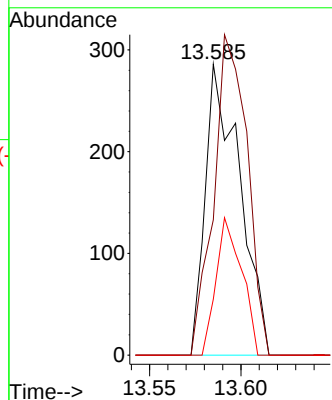
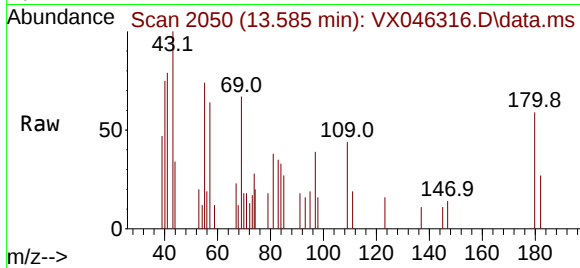




#93
1,2,4-Trichlorobenzene
Concen: 0.393 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

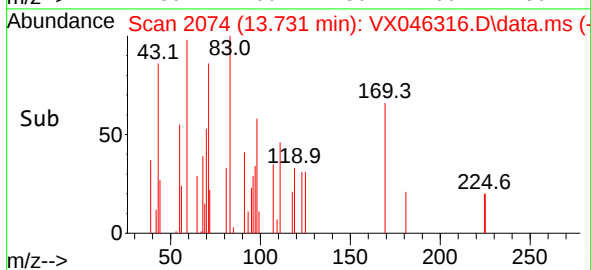
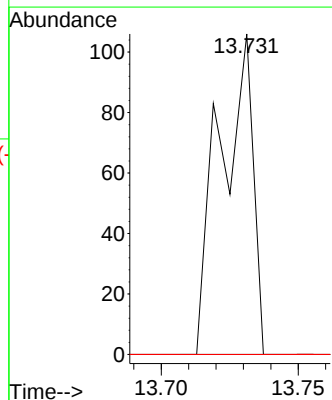
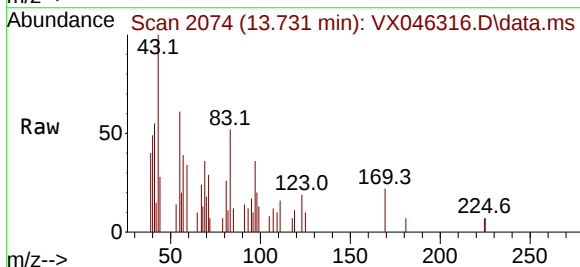
Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

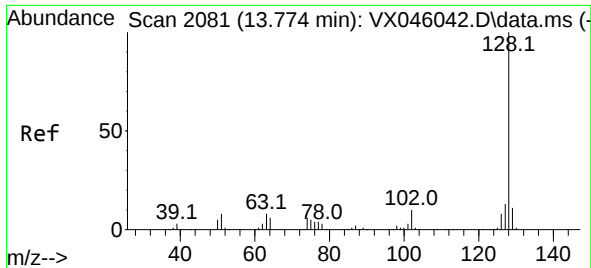
Tgt Ion:180 Resp: 373
Ion Ratio Lower Upper
180 100
182 107.5 47.9 143.8
145 35.4 17.1 51.2



#94
Hexachlorobutadiene
Concen: 0.215 ug/l
RT: 13.731 min Scan# 2074
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion:225 Resp: 89
Ion Ratio Lower Upper
225 100
223 0.0 30.8 92.4#
227 0.0 30.9 92.7#

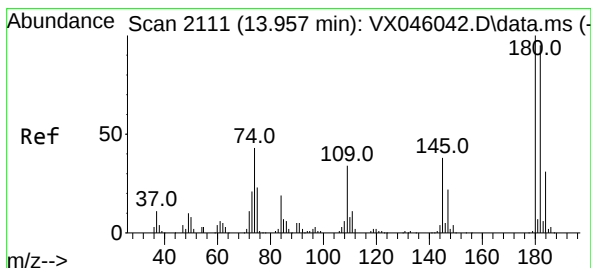
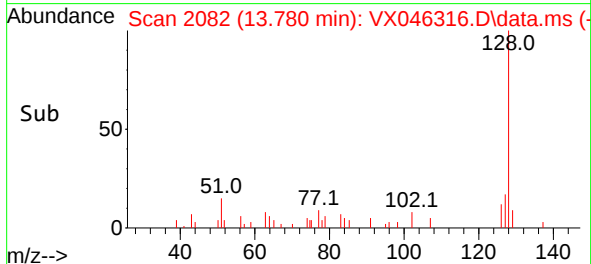
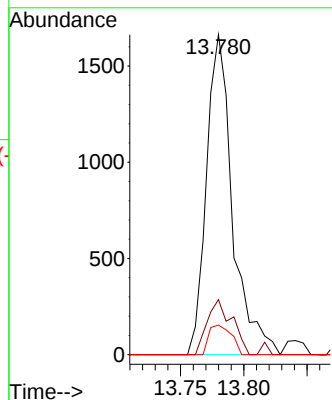
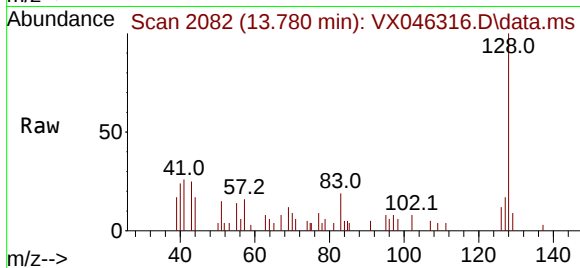




#95
Naphthalene
Concen: 0.685 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
LAW-25-0078

Tgt Ion:128 Resp: 2385
Ion Ratio Lower Upper
128 100
127 16.4 10.4 15.6#
129 8.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.461 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046316.D
Acq: 22 May 2025 10:03

Tgt Ion:180 Resp: 452
Ion Ratio Lower Upper
180 100
182 93.4 47.8 143.3
145 46.0 18.1 54.3

