

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
 Data File : VW032088.D
 Acq On : 14 Aug 2025 13:09
 Operator : SY/MD
 Sample : Q2820-05
 Misc : 4.93g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 518R-E

Quant Time: Aug 18 03:51:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 12 04:04:48 2025
 Response via : Initial Calibration

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

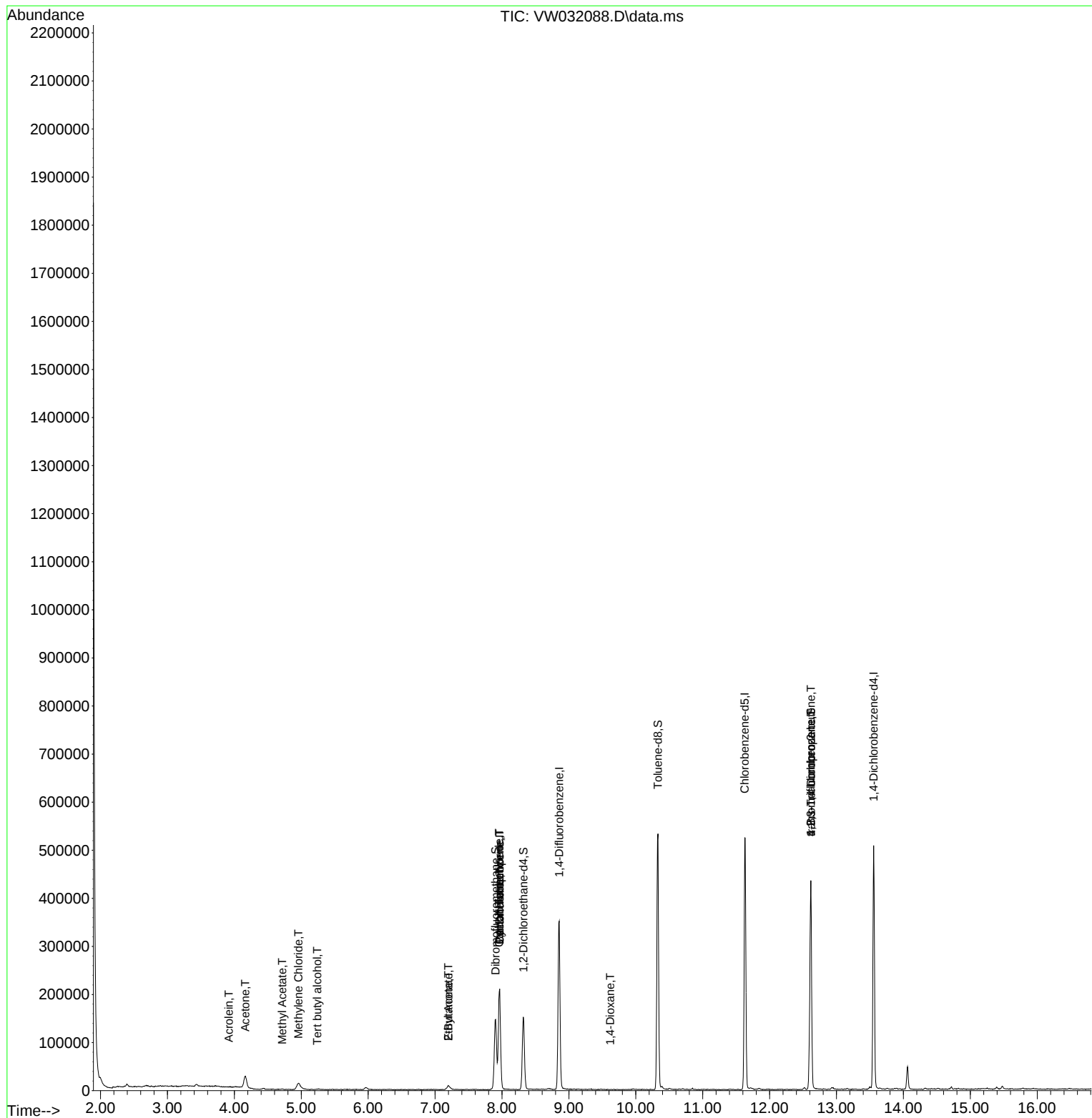
Internal Standards						
1) Pentafluorobenzene	7.965	168	142915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	288167	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	279890	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	126154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	123019	59.517	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 119.040%		
35) Dibromofluoromethane	7.904	113	104709	56.245	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 112.480%		
50) Toluene-d8	10.331	98	345691	50.204	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 100.400%		
62) 4-Bromofluorobenzene	12.617	95	119774	47.202	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 94.400%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.240	59	614	4.587	ug/l #	71
13) Acrolein	3.917	56	311	1.458	ug/l #	76
16) Acetone	4.161	43	43607	91.123	ug/l	90
18) Methyl Acetate	4.716	43	1983	1.310	ug/l	92
20) Methylene Chloride	4.960	84	11745	5.308	ug/l	94
25) 2-Butanone	7.197	43	11866	17.446	ug/l	92
31) Cyclohexane	7.965	56	4381	1.487	ug/l #	46
36) 1,1-Dichloropropene	7.965	75	13551	5.163	ug/l #	50
37) Ethyl Acetate	7.197	43	11866	7.677	ug/l #	69
38) Carbon Tetrachloride	7.959	117	17300	6.831	ug/l #	18
49) 1,4-Dioxane	9.617	88	22	1.338	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	66361	38.758	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	66361	100.340	ug/l #	10

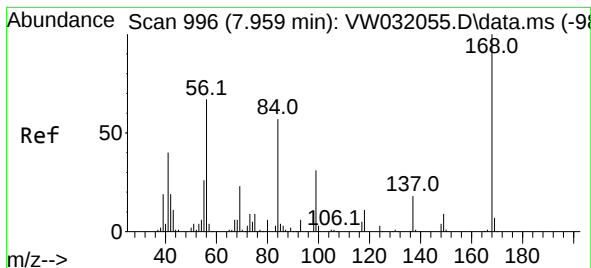
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 18 03:51:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.965 min Scan# 99

Delta R.T. 0.006 min

Lab File: VW032088.D

Acq: 14 Aug 2025 13:09

Instrument :

MSVOA_W

ClientSampleId :

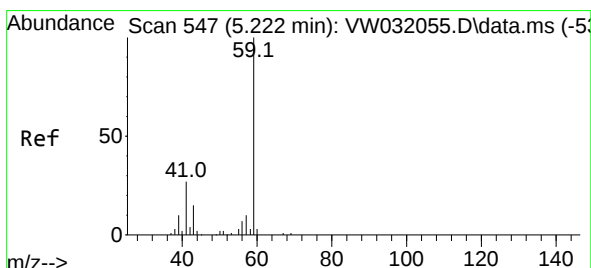
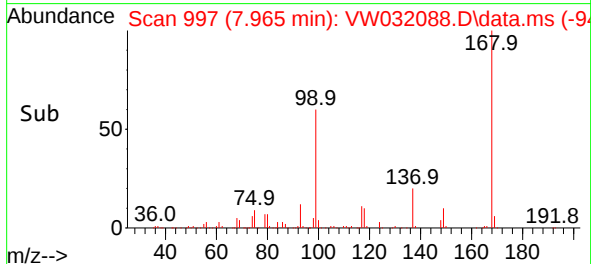
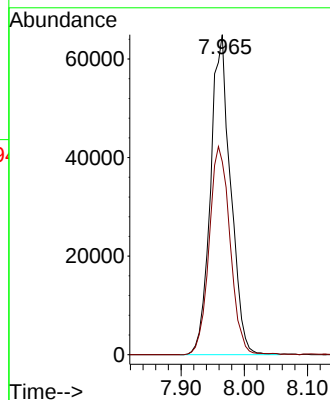
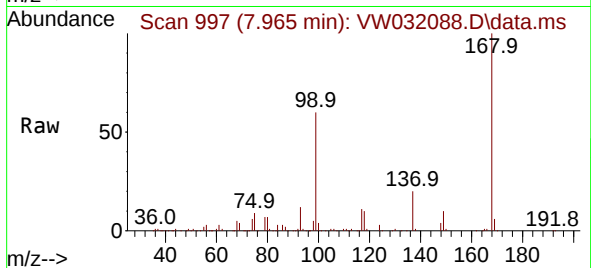
518R-E

Tgt Ion:168 Resp: 142915

Ion Ratio Lower Upper

168 100

99 60.3 56.0 84.0



#11

Tert butyl alcohol

Concen: 4.587 ug/l

RT: 5.240 min Scan# 550

Delta R.T. 0.018 min

Lab File: VW032088.D

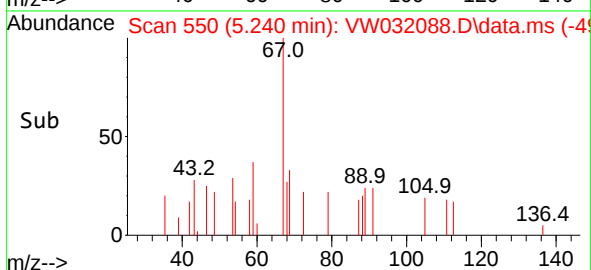
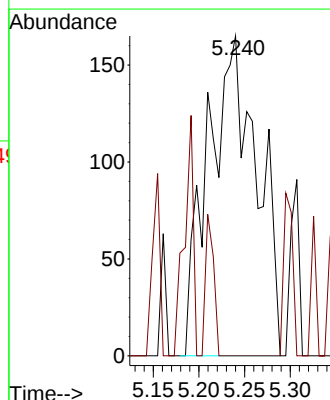
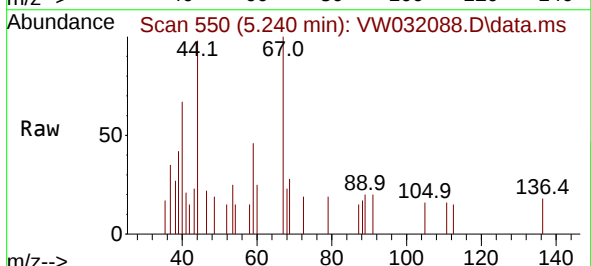
Acq: 14 Aug 2025 13:09

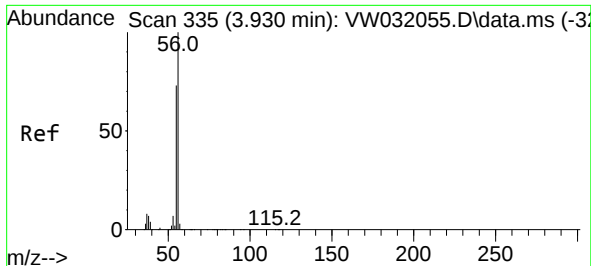
Tgt Ion: 59 Resp: 614

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#

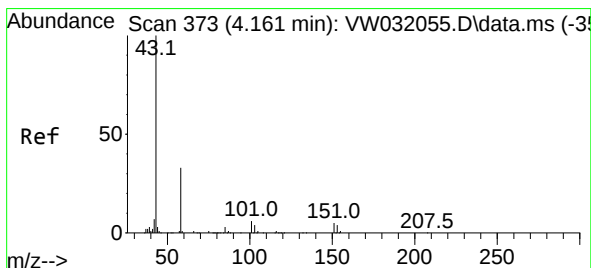
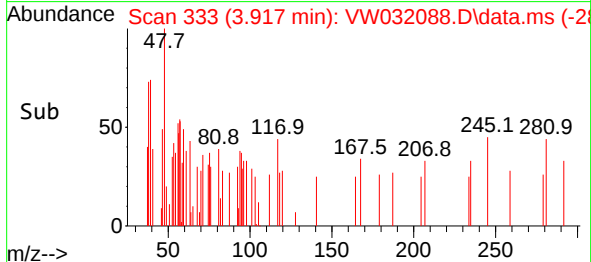
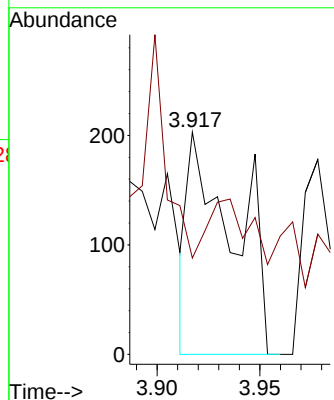
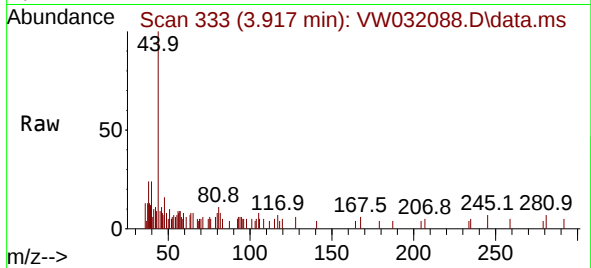




#13
Acrolein
Concen: 1.458 ug/l
RT: 3.917 min Scan# 311
Delta R.T. -0.012 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

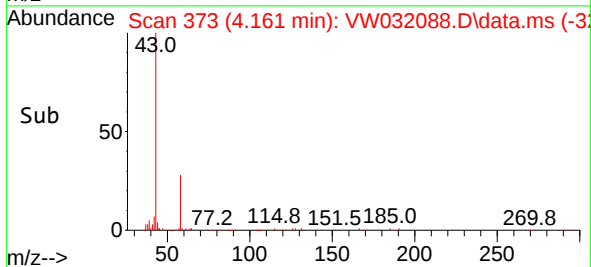
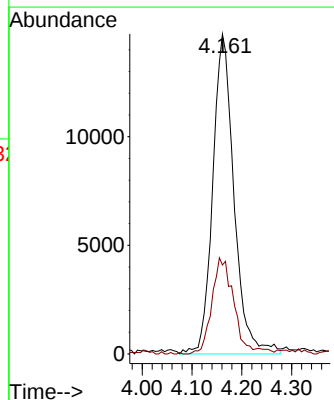
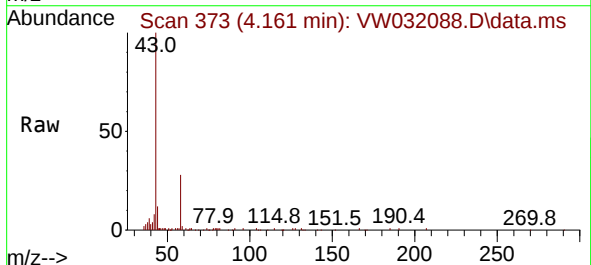
Instrument :
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518R-E

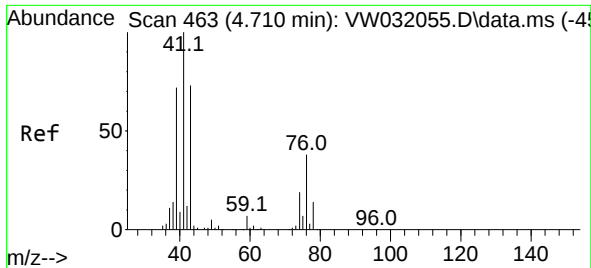
Tgt Ion: 56 Resp: 311
Ion Ratio Lower Upper
56 100
55 49.5 55.4 83.2#



#16
Acetone
Concen: 91.123 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 43 Resp: 43607
Ion Ratio Lower Upper
43 100
58 27.4 26.6 39.8

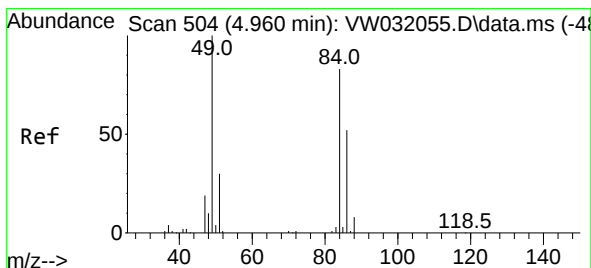
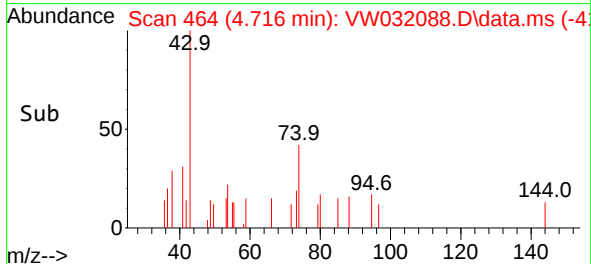
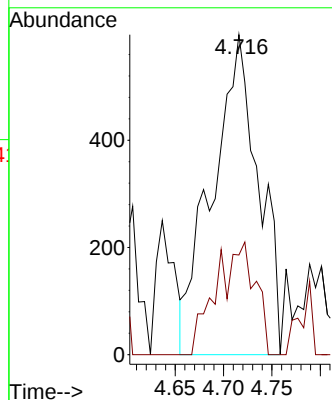
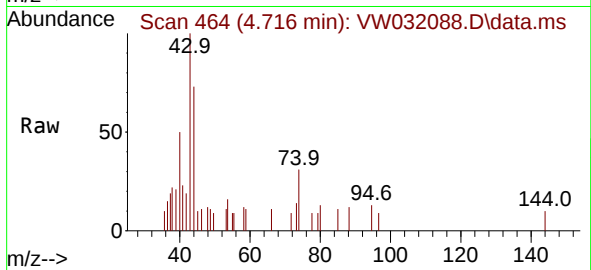




#18
Methyl Acetate
Concen: 1.310 ug/l
RT: 4.716 min Scan# 463
Delta R.T. 0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

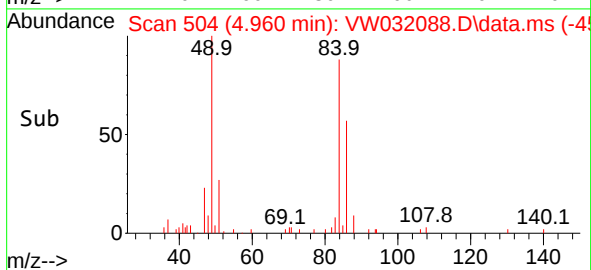
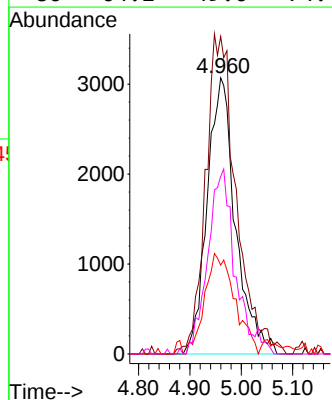
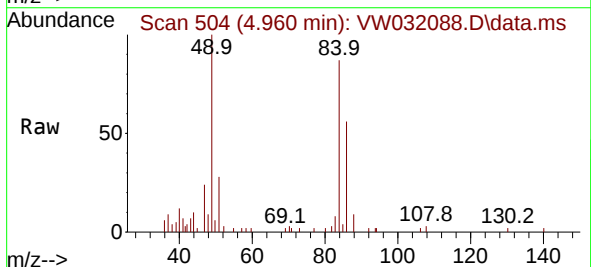
Instrument :
MSVOA_W
ClientSampleId :
518R-E

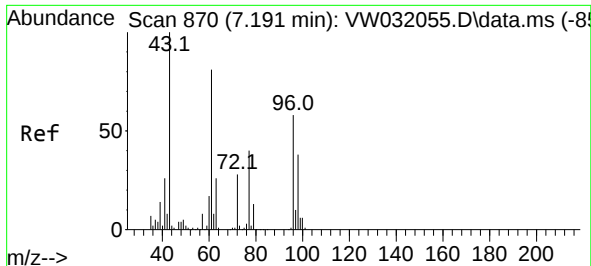
Tgt Ion: 43 Resp: 1983
Ion Ratio Lower Upper
43 100
74 29.8 20.6 31.0



#20
Methylene Chloride
Concen: 5.308 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 84 Resp: 11745
Ion Ratio Lower Upper
84 100
49 113.1 95.9 143.9
51 29.7 28.6 43.0
86 64.2 49.6 74.4

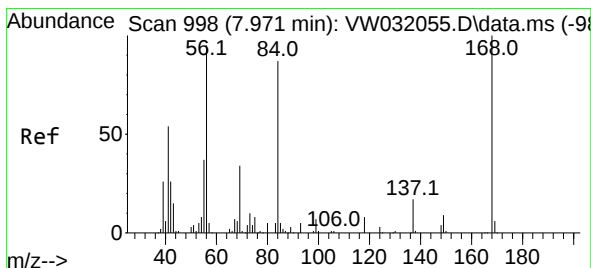
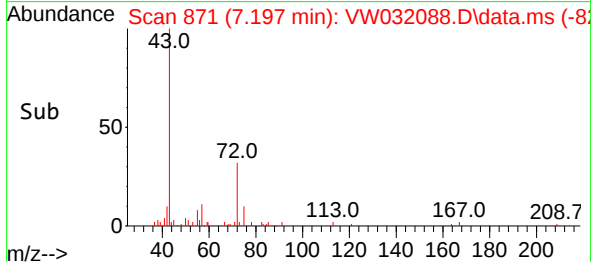
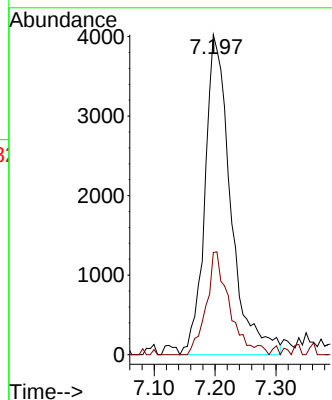
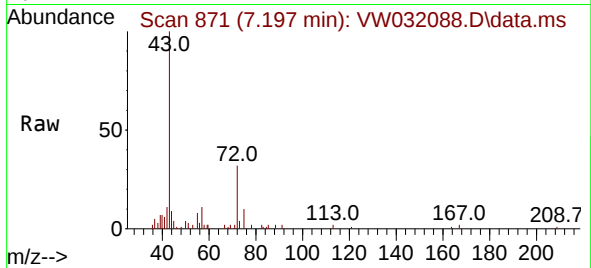




#25
2-Butanone
Concen: 17.446 ug/l
RT: 7.197 min Scan# 81
Delta R.T. 0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

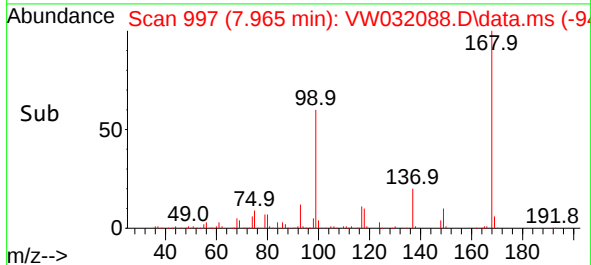
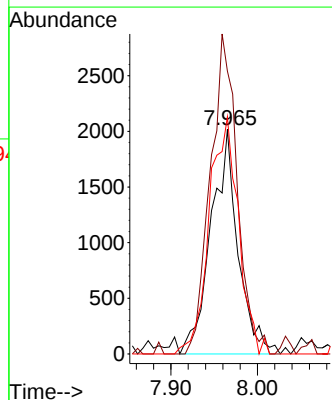
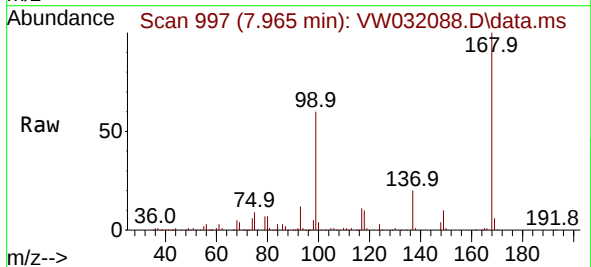
Instrument :
MSVOA_W
ClientSampleId :
518R-E

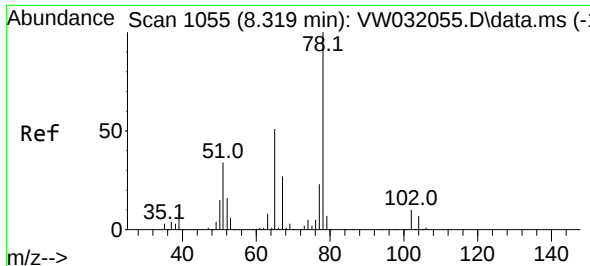
Tgt Ion: 43 Resp: 11866
Ion Ratio Lower Upper
43 100
72 31.9 22.3 33.5



#31
Cyclohexane
Concen: 1.487 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 56 Resp: 4381
Ion Ratio Lower Upper
56 100
69 126.0 28.6 42.8#
84 105.6 73.0 109.4

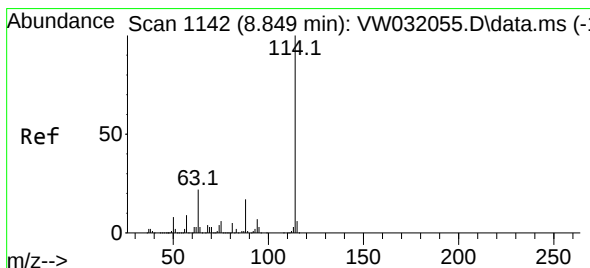
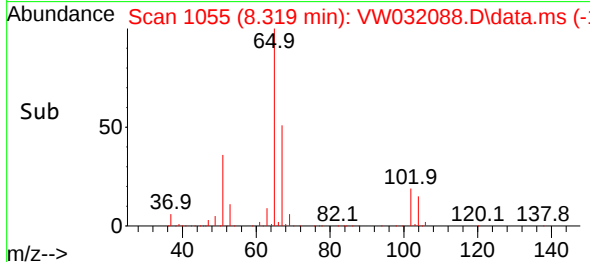
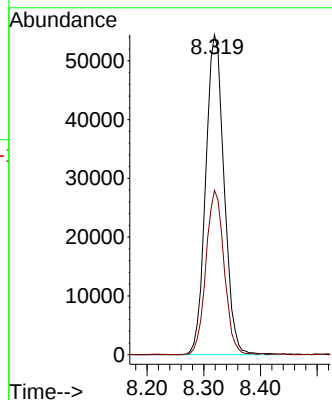
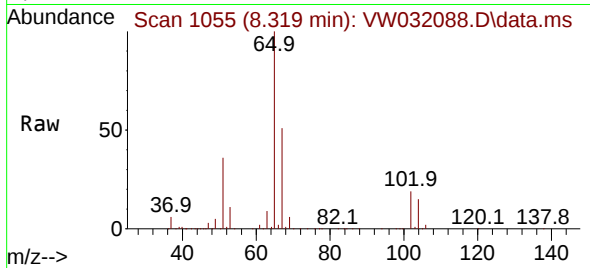




#33
 1,2-Dichloroethane-d4
 Concen: 59.517 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: VW032088.D
 Acq: 14 Aug 2025 13:09

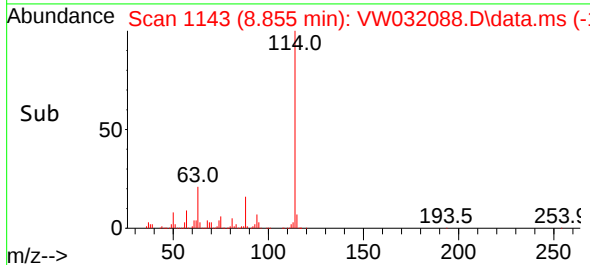
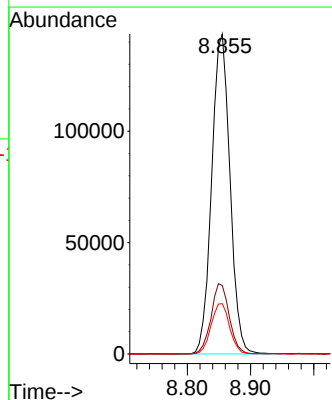
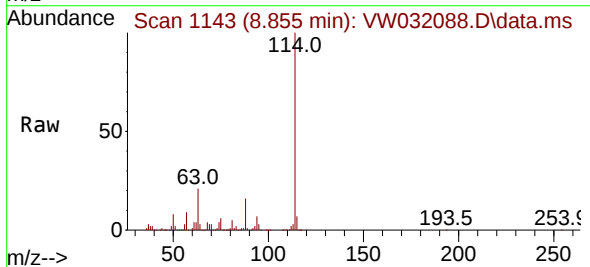
Instrument :
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 ClientSampleId :
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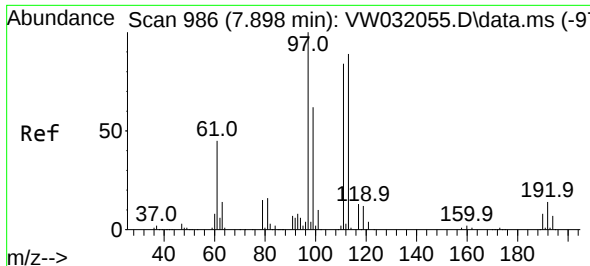
Tgt Ion: 65 Resp: 123019
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.006 min
 Lab File: VW032088.D
 Acq: 14 Aug 2025 13:09

Tgt Ion:114 Resp: 288167
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.0
 88 15.7 0.0 33.8

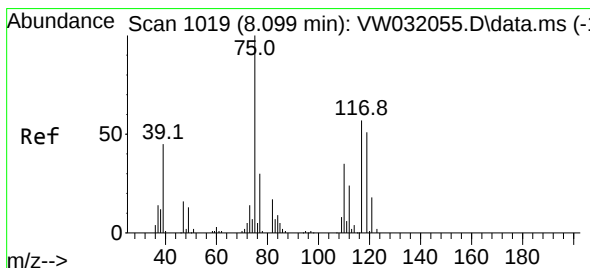
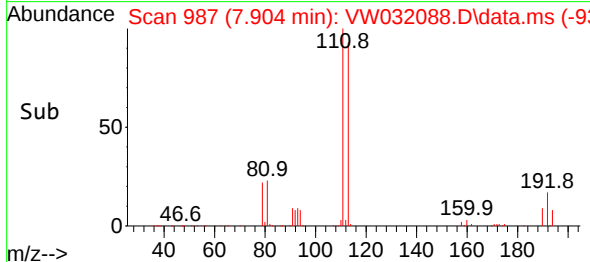
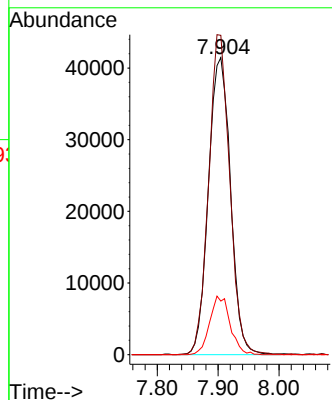
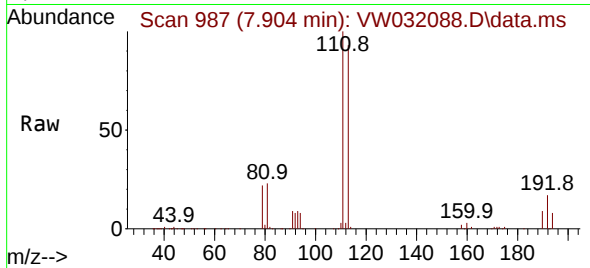




#35
Dibromofluoromethane
Concen: 56.245 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.006 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

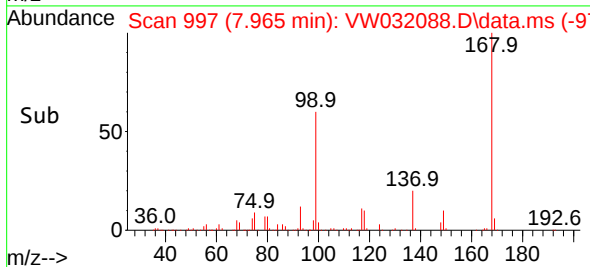
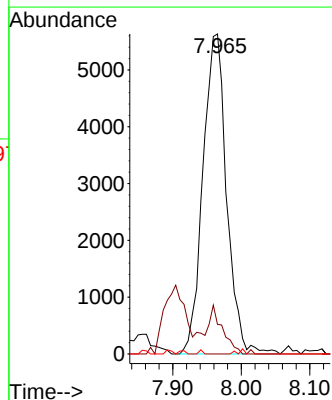
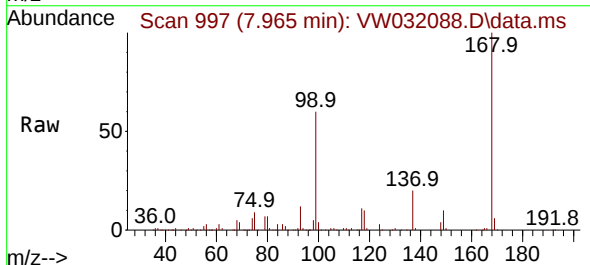
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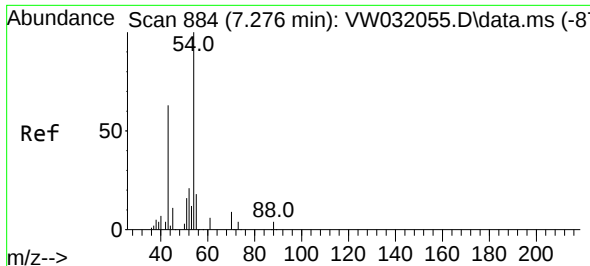
Tgt Ion:113 Resp: 104709
Ion Ratio Lower Upper
113 100
111 102.8 80.1 120.1
192 18.2 13.1 19.7



#36
1,1-Dichloropropene
Concen: 5.163 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.134 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 75 Resp: 13551
Ion Ratio Lower Upper
75 100
110 8.6 17.4 52.2#
77 0.0 24.7 37.1#

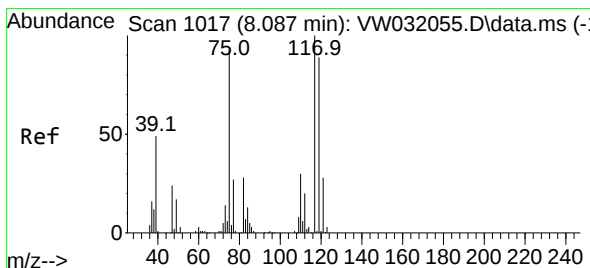
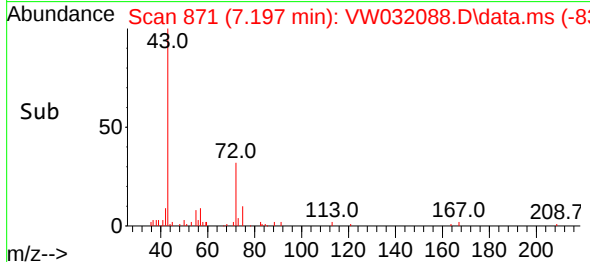
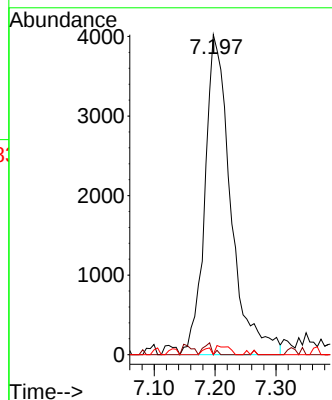
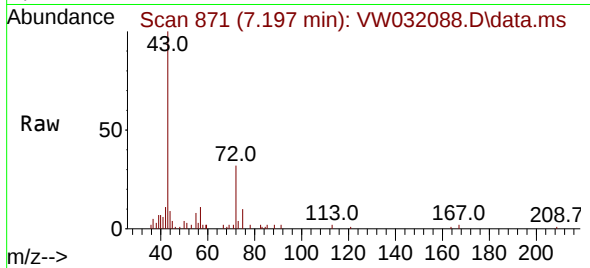




#37
Ethyl Acetate
Concen: 7.677 ug/l
RT: 7.197 min Scan# 811
Delta R.T. -0.079 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

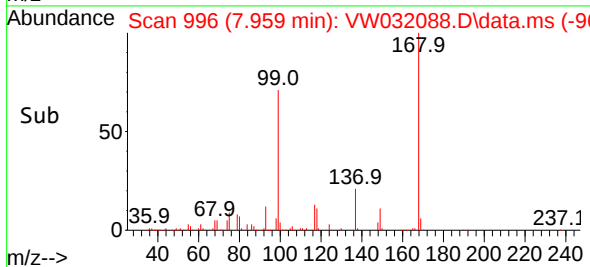
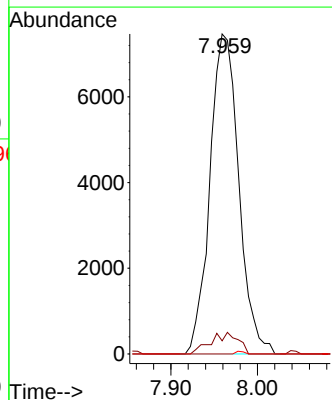
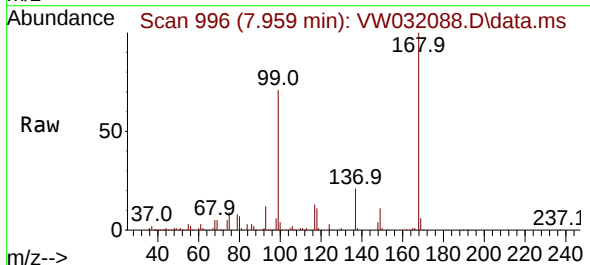
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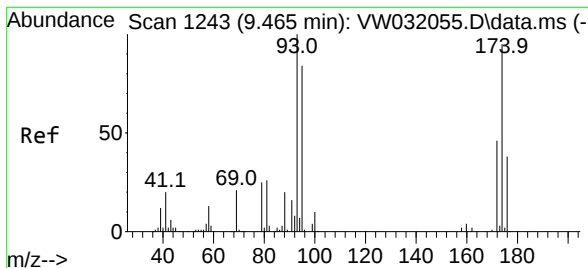
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Ion Ratio Lower Upper
43 100
61 1.2 11.8 17.6#
70 0.7 9.4 14.0#



#38
Carbon Tetrachloride
Concen: 6.831 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.128 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 117 Resp: 17300
Ion Ratio Lower Upper
117 100
119 4.1 71.4 107.2#
121 0.0 22.3 33.5#





#49

1,4-Dioxane

Concen: 1.338 ug/l

RT: 9.617 min Scan# 11

Delta R.T. 0.152 min

Lab File: VW032088.D

Acq: 14 Aug 2025 13:09

Instrument :

MSVOA_W

ClientSampleId :

518R-E

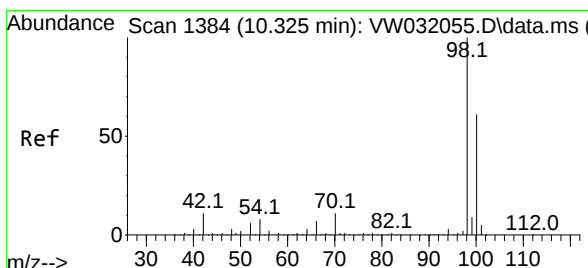
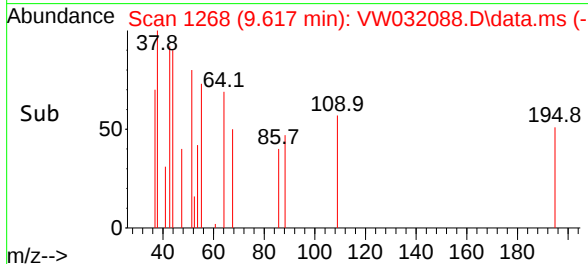
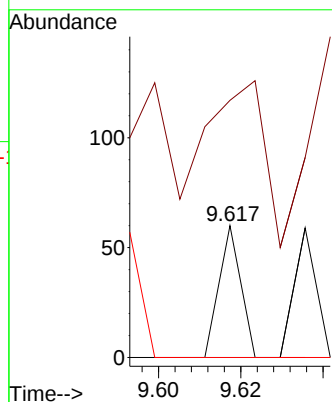
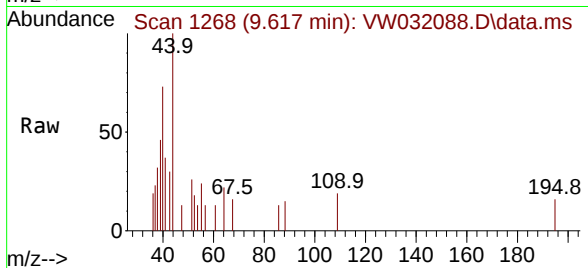
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 340.9 20.6 30.8#

58 0.0 60.4 90.6#



#50

Toluene-d8

Concen: 50.204 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032088.D

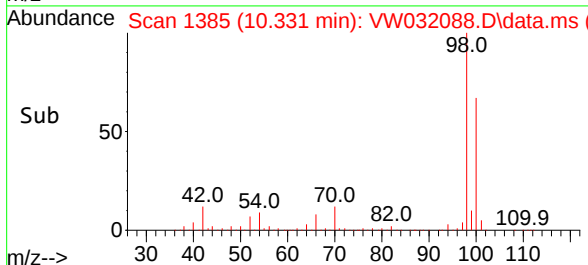
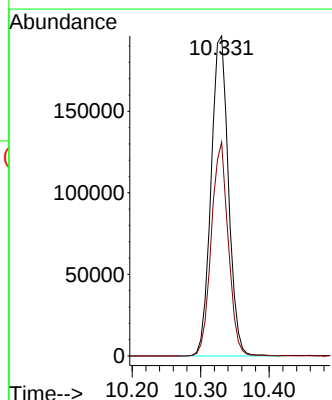
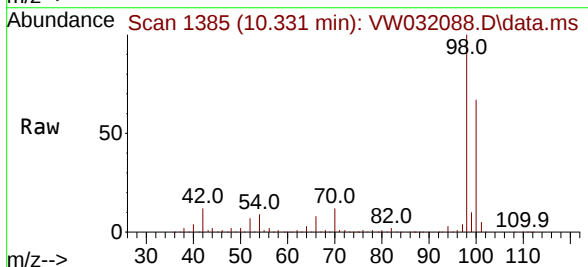
Acq: 14 Aug 2025 13:09

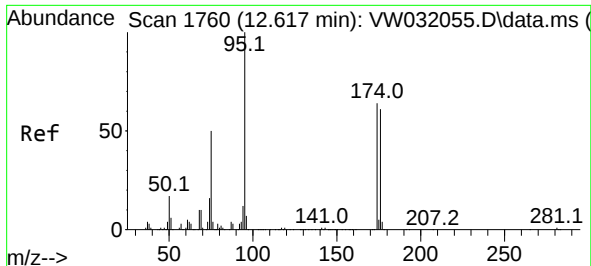
Tgt Ion: 98 Resp: 345691

Ion Ratio Lower Upper

98 100

100 65.0 51.1 76.7

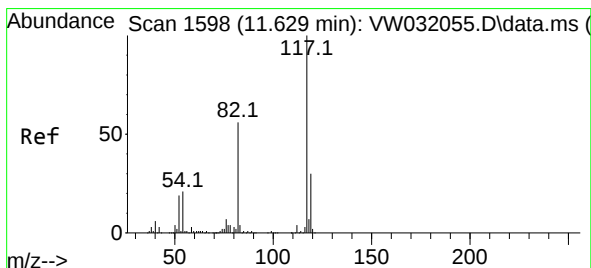
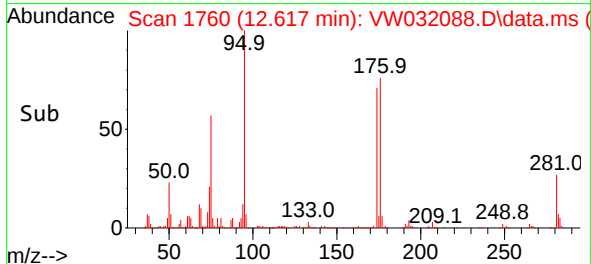
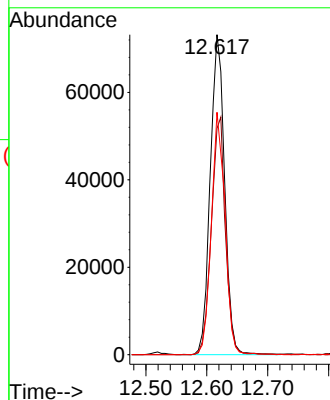
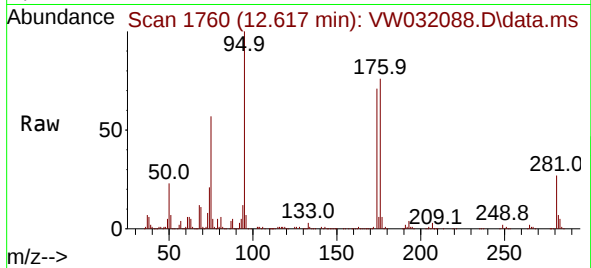




#62
4-Bromofluorobenzene
Concen: 47.202 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

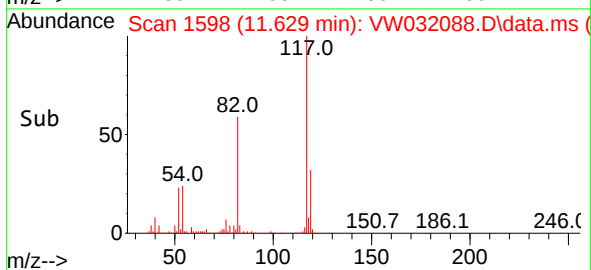
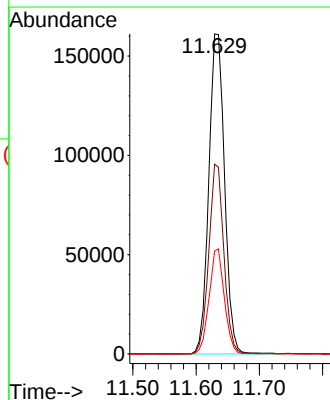
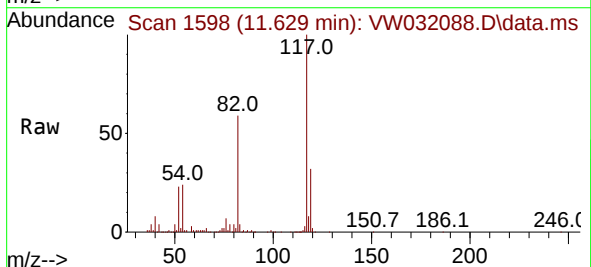
Instrument :
MSVOA_W
ClientSampleId :
518R-E

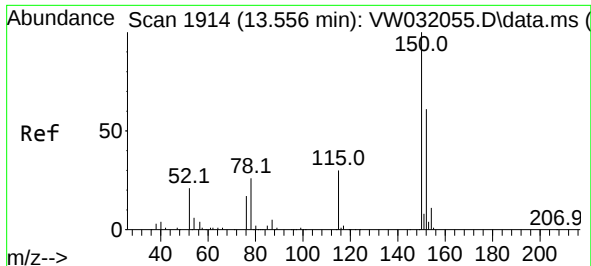
Tgt Ion: 95 Resp: 119774
Ion Ratio Lower Upper
95 100
174 72.9 0.0 129.0
176 72.3 0.0 124.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VW032088.D
Acq: 14 Aug 2025 13:09

Tgt Ion: 117 Resp: 279890
Ion Ratio Lower Upper
117 100
82 59.3 45.0 67.4
119 32.1 24.2 36.4

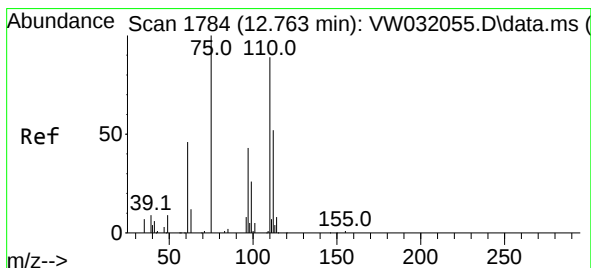
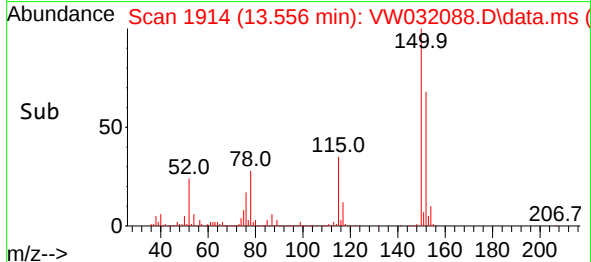
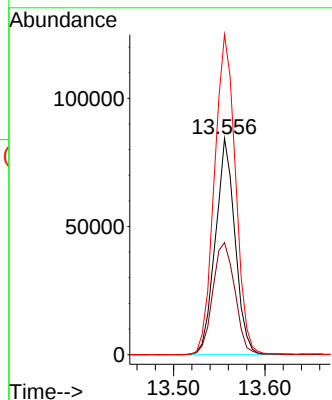
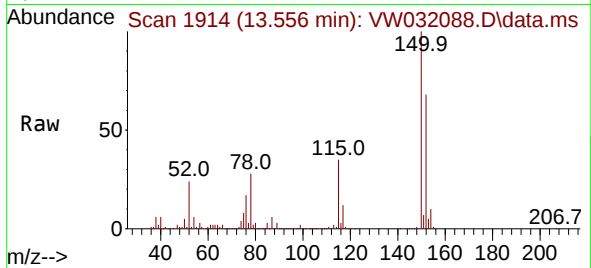




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. -0.000 min
 Lab File: VW032088.D
 Acq: 14 Aug 2025 13:09

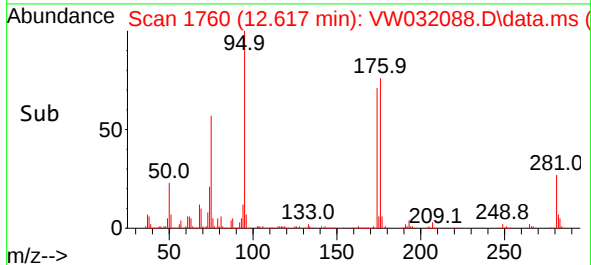
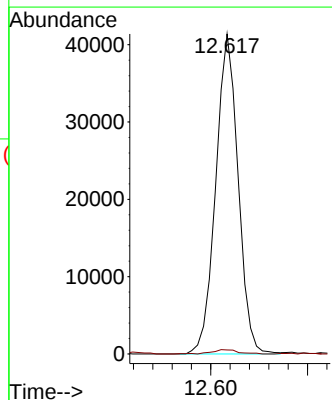
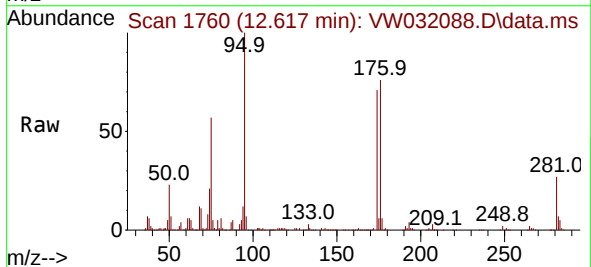
Instrument :
 MSVOA_W
 ClientSampleId :
 518R-E

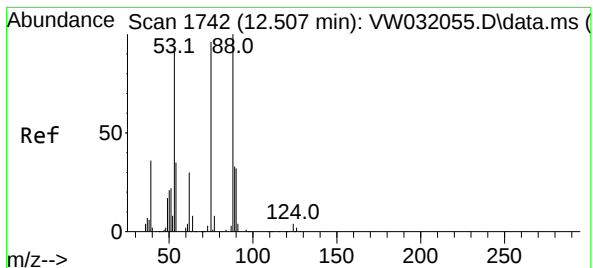
Tgt Ion:152 Resp: 126154
 Ion Ratio Lower Upper
 152 100
 115 58.5 32.6 97.8
 150 159.2 0.0 359.4



#76
 1,2,3-Trichloropropane
 Concen: 38.758 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.146 min
 Lab File: VW032088.D
 Acq: 14 Aug 2025 13:09

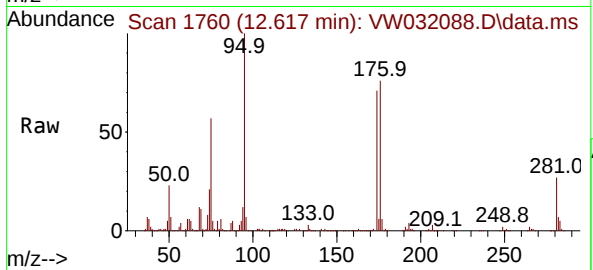
Tgt Ion: 75 Resp: 66361
 Ion Ratio Lower Upper
 75 100
 77 1.6 123.5 370.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.340 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VW032088.D
 Acq: 14 Aug 2025 13:09

Instrument :
 MSVOA_W
 ClientSampleId :
 518R-E



Tgt Ion: 75 Resp: 66361
 Ion Ratio Lower Upper
 75 100
 53 0.6 81.0 121.6#
 89 0.3 37.3 55.9#

