

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW091825\
 Data File : VW032199.D
 Acq On : 18 Sep 2025 15:04
 Operator : SY/MD
 Sample : Q3133-05
 Misc : 6.21g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 361

Quant Time: Sep 19 04:34:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W082625S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 27 04:13:40 2025
 Response via : Initial Calibration

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

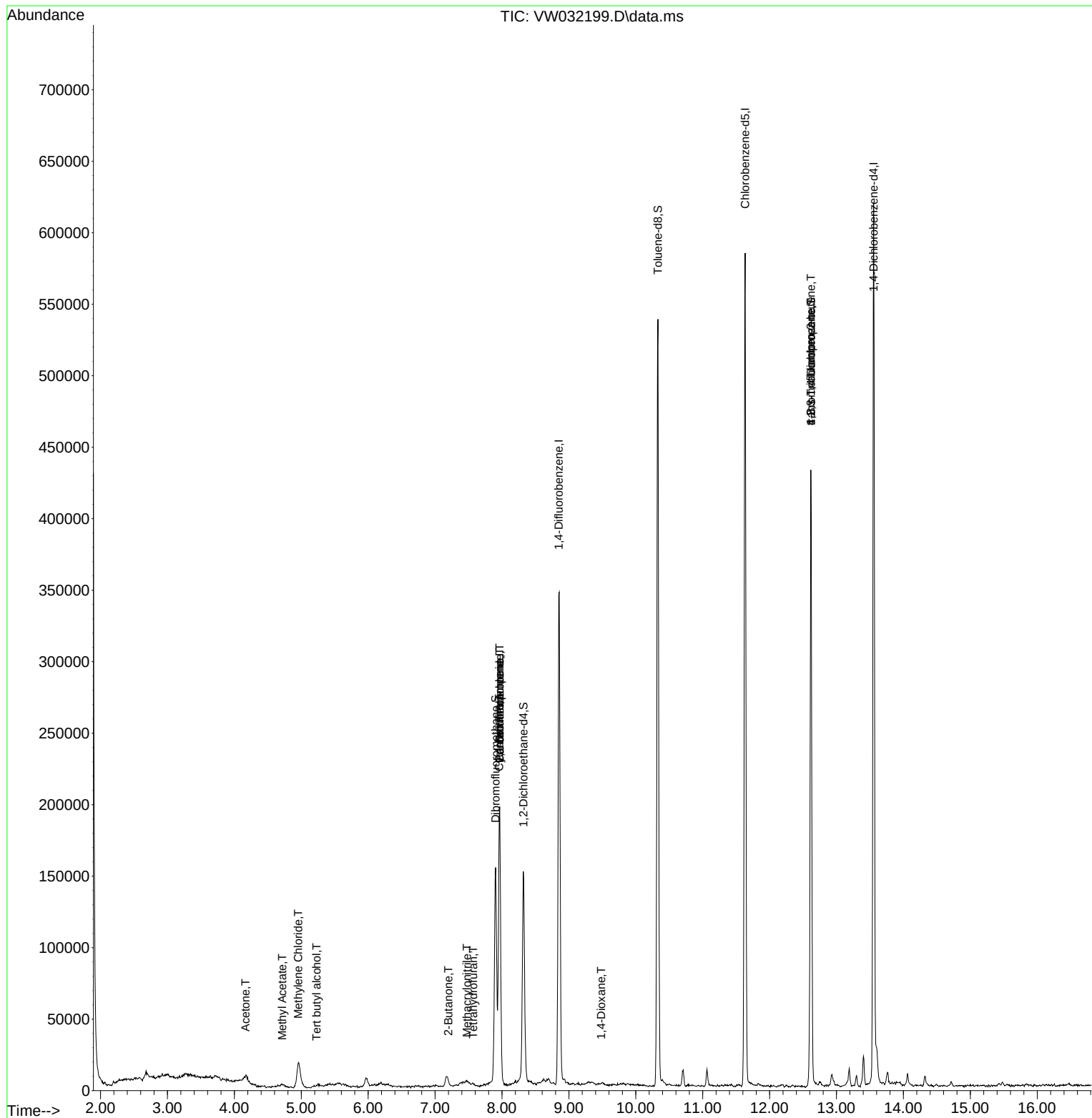
Internal Standards						
1) Pentafluorobenzene	7.965	168	132435	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	284936	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	305196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	147493	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	120135	63.429	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 126.860%			
35) Dibromofluoromethane	7.904	113	104328	52.188	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 104.380%			
50) Toluene-d8	10.330	98	348779	49.699	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.400%			
62) 4-Bromofluorobenzene	12.617	95	135476	52.206	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.420%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.228	59	614	5.300	ug/l #	89
16) Acetone	4.167	43	4031	9.827	ug/l #	87
18) Methyl Acetate	4.716	43	3340	2.556	ug/l #	76
20) Methylene Chloride	4.953	84	16020	6.107	ug/l	97
25) 2-Butanone	7.197	43	707	1.216	ug/l #	48
29) Tetrahydrofuran	7.569	42	394	1.067	ug/l #	49
31) Cyclohexane	7.959	56	3996	1.719	ug/l #	1
36) 1,1-Dichloropropene	7.965	75	12669	4.888	ug/l #	51
38) Carbon Tetrachloride	7.965	117	15301	5.507	ug/l #	19
41) Methacrylonitrile	7.477	41	889	1.029	ug/l #	24
49) 1,4-Dioxane	9.483	88	29	1.772	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	76913	41.624	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	76913	112.072	ug/l #	5

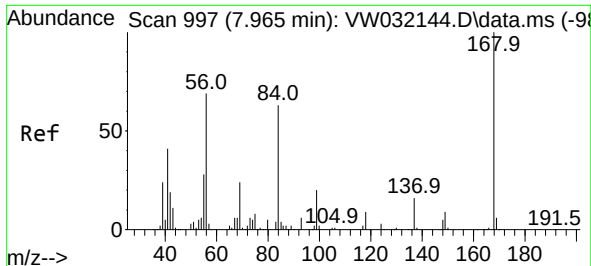
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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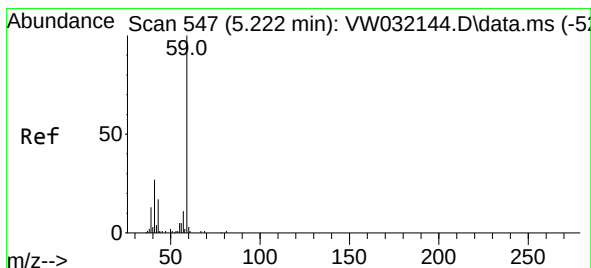
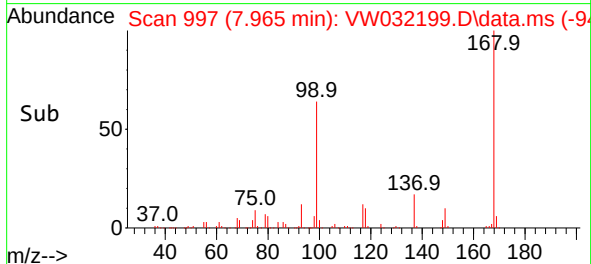
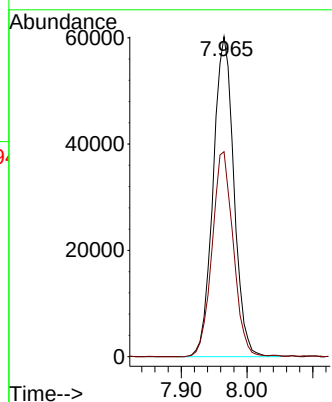
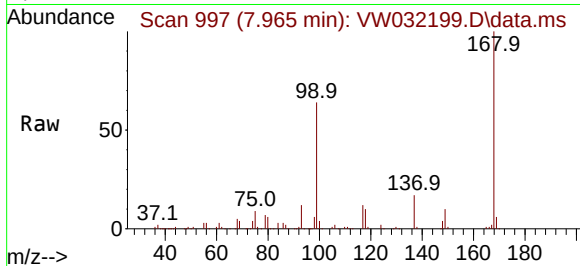




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. -0.000 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

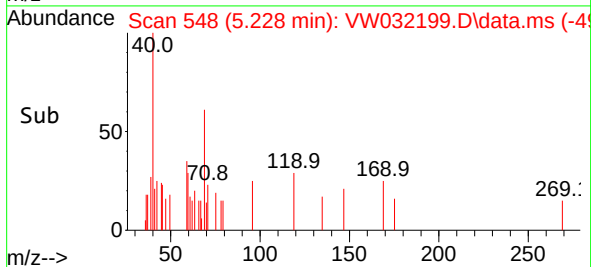
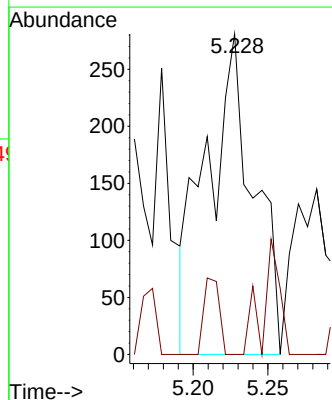
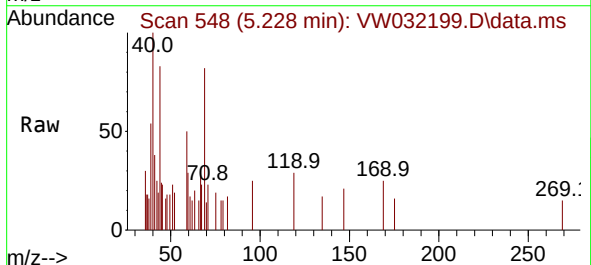
Instrument :
MSVOA_W
ClientSampleId :
361

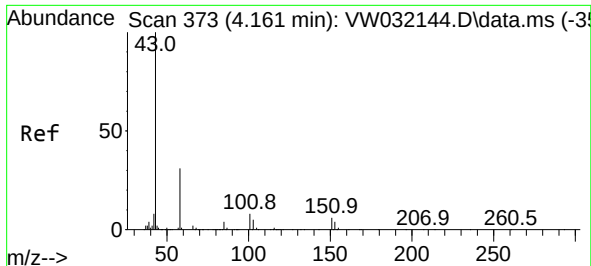
Tgt Ion:168 Resp: 132435
Ion Ratio Lower Upper
168 100
99 63.9 49.3 73.9



#11
Tert butyl alcohol
Concen: 5.300 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.006 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

Tgt Ion: 59 Resp: 614
Ion Ratio Lower Upper
59 100
57 7.8 9.8 14.6#

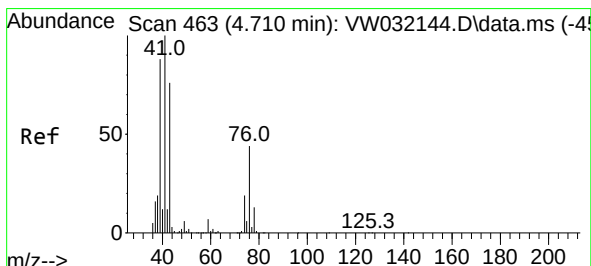
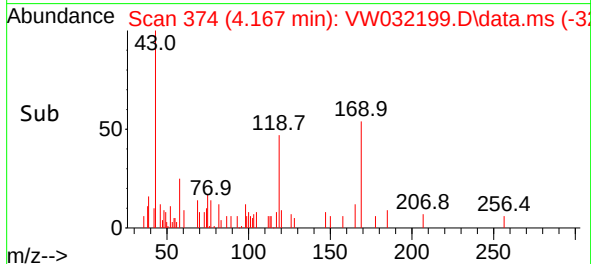
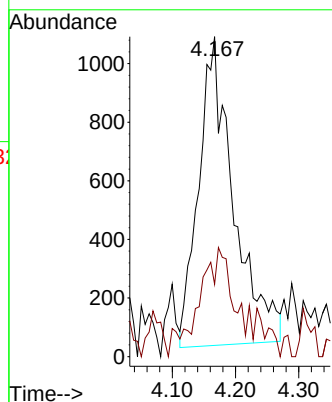
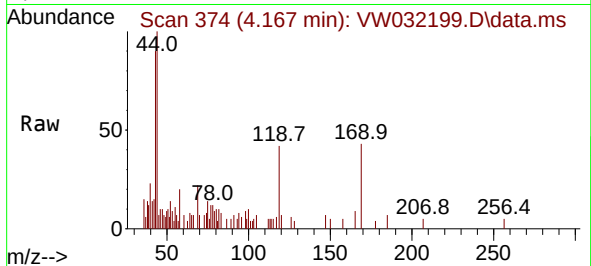




#16
Acetone
Concen: 9.827 ug/l
RT: 4.167 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

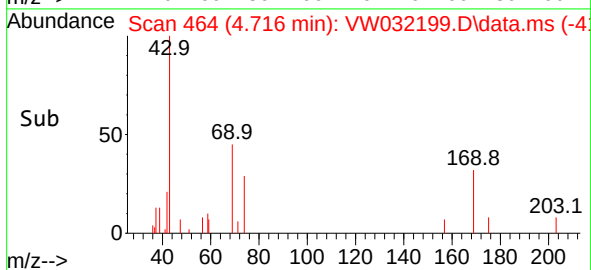
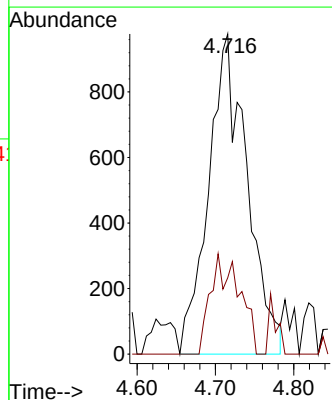
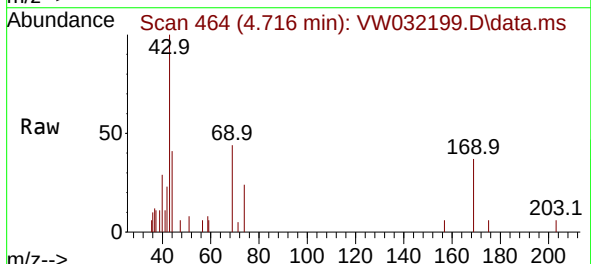
Instrument :
MSVOA_W
ClientSampleId :
361

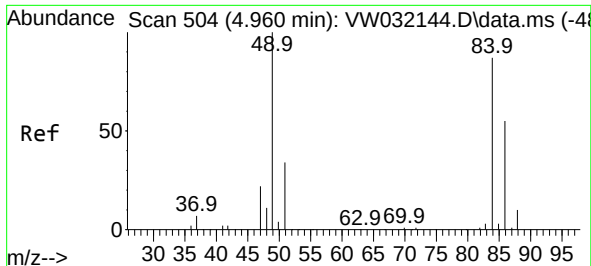
Tgt Ion: 43 Resp: 4031
Ion Ratio Lower Upper
43 100
58 24.5 25.3 37.9#



#18
Methyl Acetate
Concen: 2.556 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

Tgt Ion: 43 Resp: 3340
Ion Ratio Lower Upper
43 100
74 13.3 20.2 30.4#

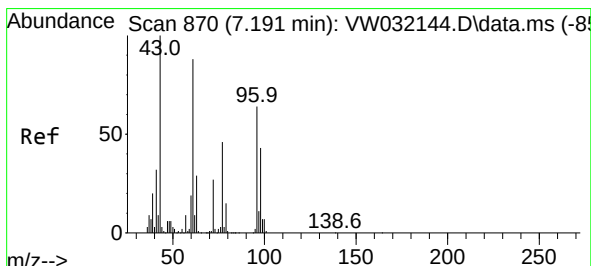
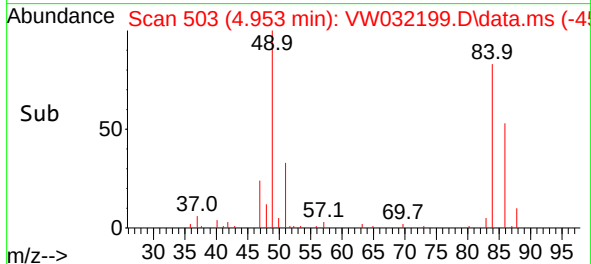
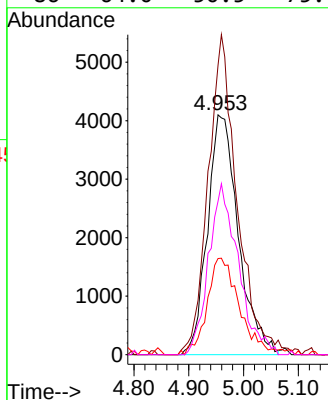
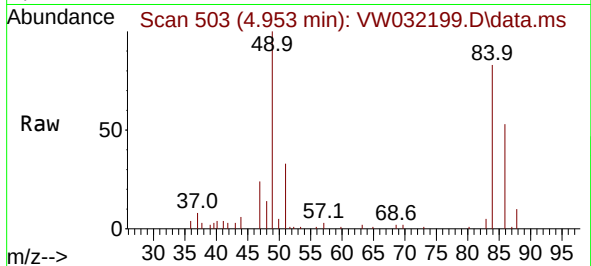




#20
Methylene Chloride
Concen: 6.107 ug/l
RT: 4.953 min Scan# 504
Delta R.T. -0.007 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

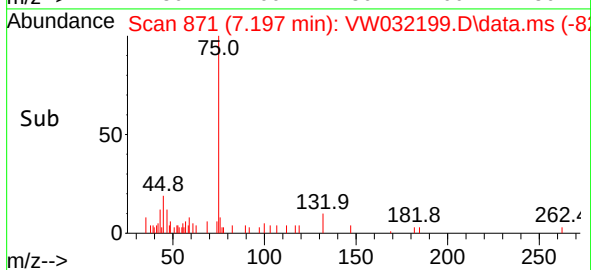
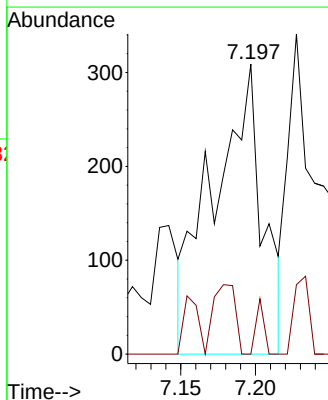
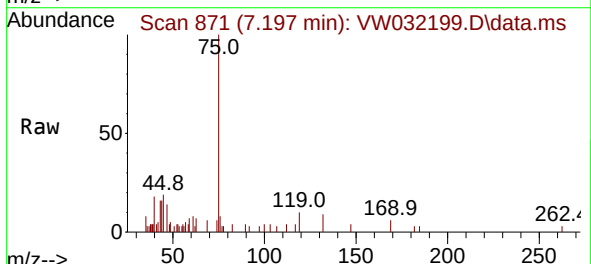
Instrument :
MSVOA_W
ClientSampleId :
361

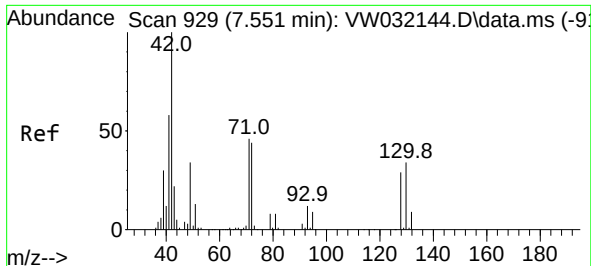
Tgt Ion: 84	Resp: 16020
Ion Ratio	Lower Upper
84 100	
49 120.7	92.2 138.4
51 40.1	31.0 46.6
86 64.0	50.5 75.7



#25
2-Butanone
Concen: 1.216 ug/l
RT: 7.197 min Scan# 871
Delta R.T. 0.006 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

Tgt Ion: 43	Resp: 707
Ion Ratio	Lower Upper
43 100	
72 0.0	21.4 32.2#





#29

Tetrahydrofuran

Concen: 1.067 ug/l

RT: 7.569 min Scan# 91

Delta R.T. 0.018 min

Lab File: VW032199.D

Acq: 18 Sep 2025 15:04

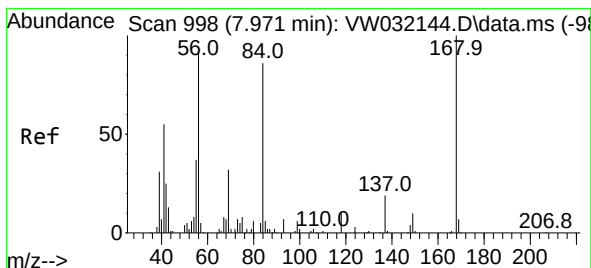
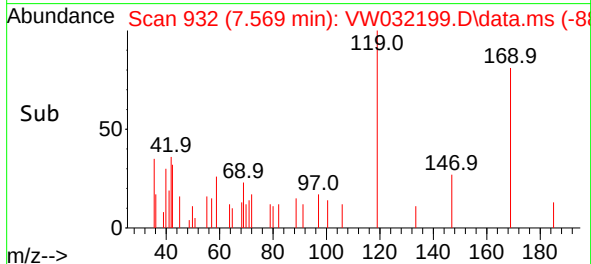
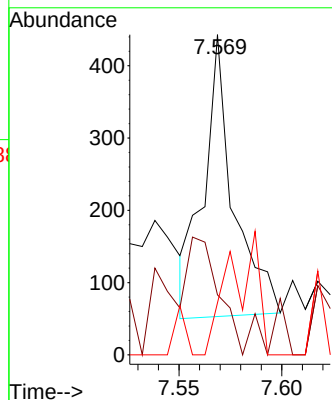
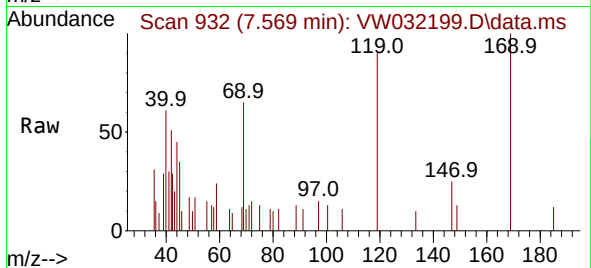
Instrument :

MSVOA_W

ClientSampleId :

361

Tgt Ion:	42	Resp:	394
Ion	Ratio	Lower	Upper
42	100		
72	75.9	37.4	56.2#
71	6.3	36.0	54.0#



#31

Cyclohexane

Concen: 1.719 ug/l

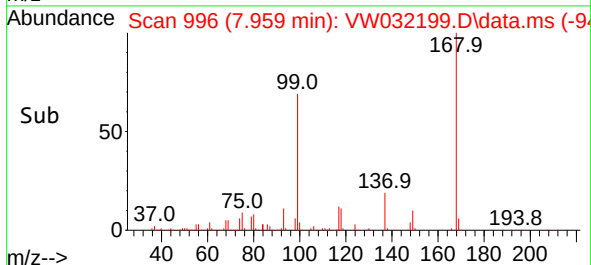
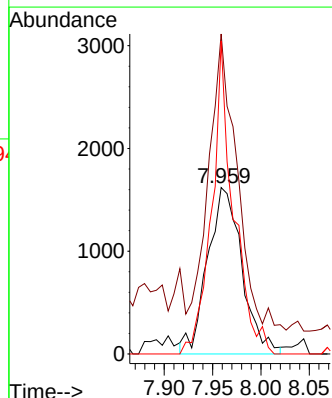
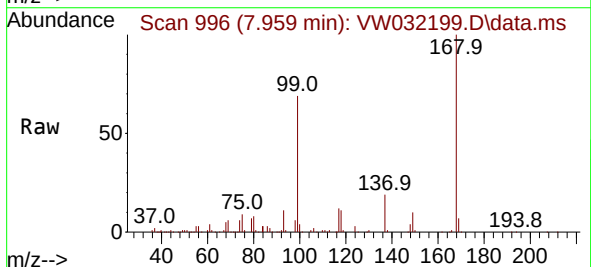
RT: 7.959 min Scan# 996

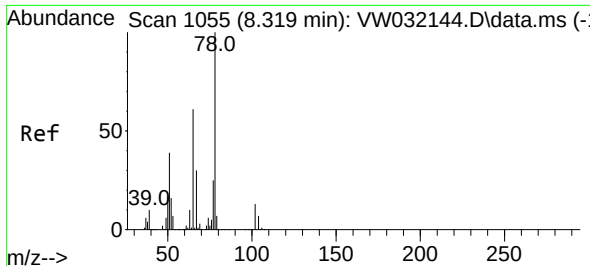
Delta R.T. -0.013 min

Lab File: VW032199.D

Acq: 18 Sep 2025 15:04

Tgt Ion:	56	Resp:	3996
Ion	Ratio	Lower	Upper
56	100		
69	182.0	27.7	41.5#
84	195.9	74.6	112.0#

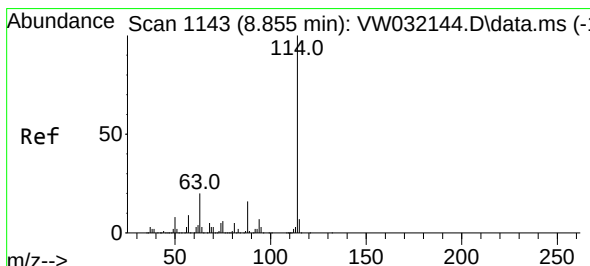
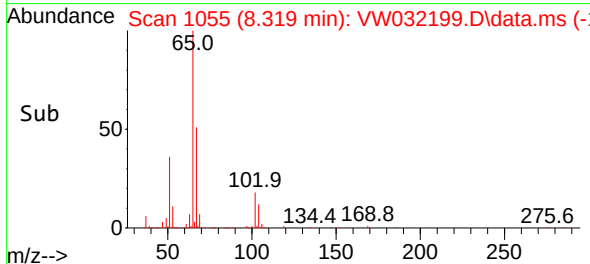
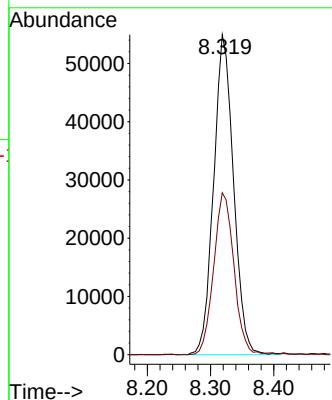
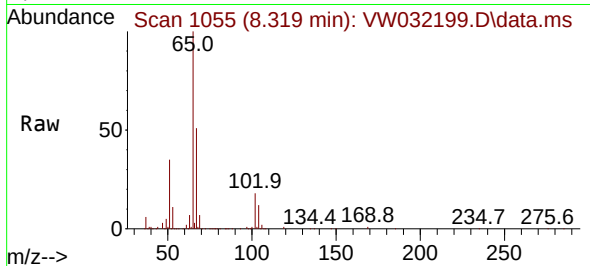




#33
 1,2-Dichloroethane-d4
 Concen: 63.429 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: VW032199.D
 Acq: 18 Sep 2025 15:04

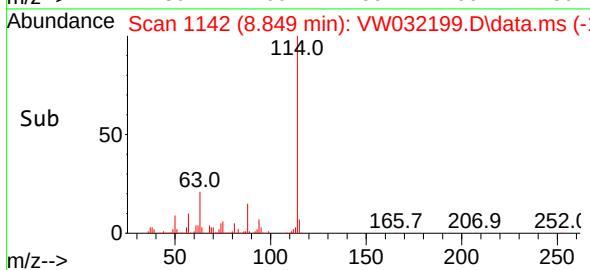
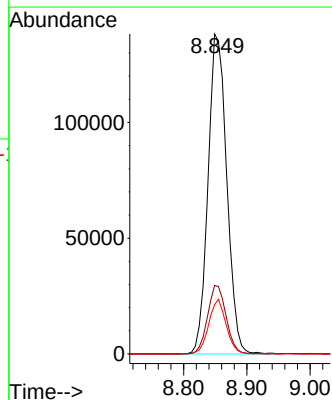
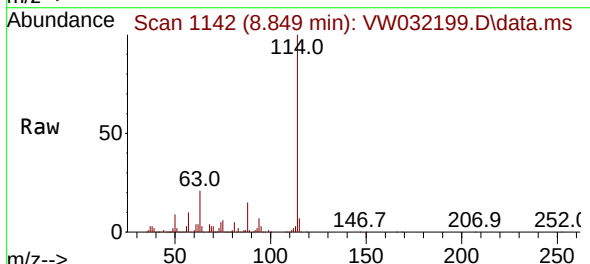
Instrument :
 MSVOA_W
 ClientSampleId :
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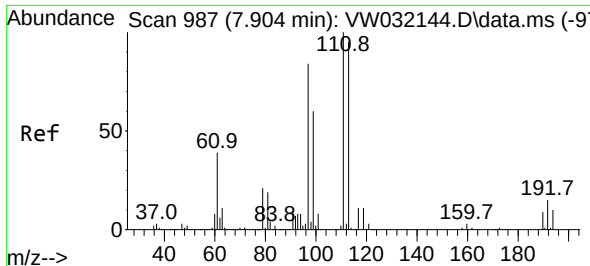
Tgt Ion: 65 Resp: 120135
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. -0.007 min
 Lab File: VW032199.D
 Acq: 18 Sep 2025 15:04

Tgt Ion: 114 Resp: 284936
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 40.4
 88 15.4 0.0 32.0

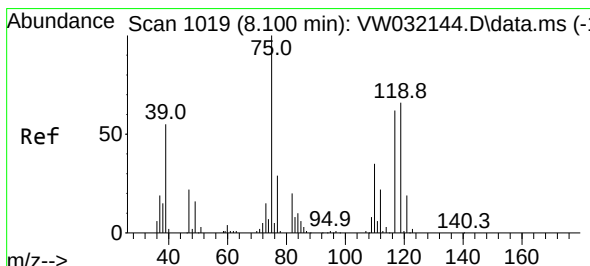
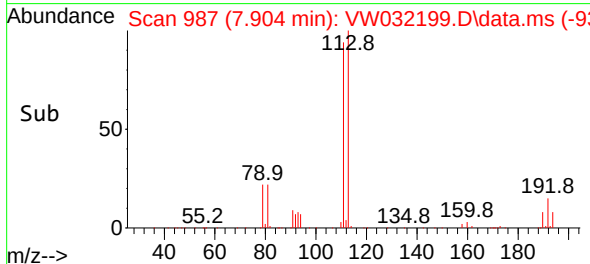
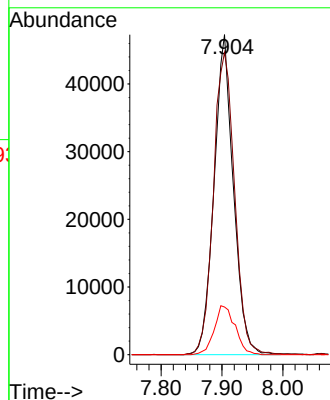
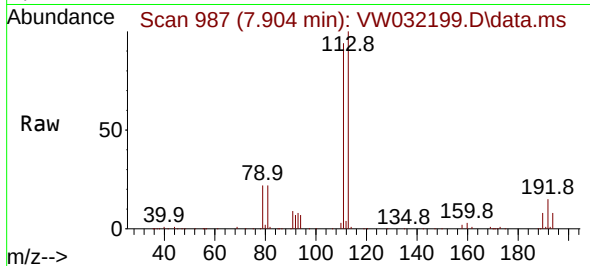




#35
 Dibromofluoromethane
 Concen: 52.188 ug/l
 RT: 7.904 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VW032199.D
 Acq: 18 Sep 2025 15:04

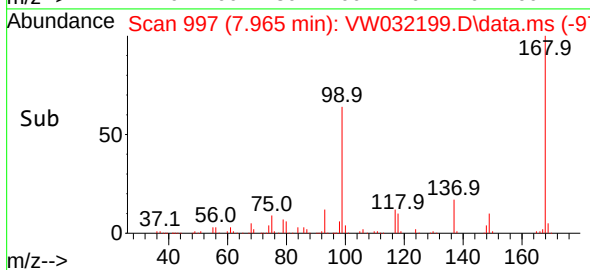
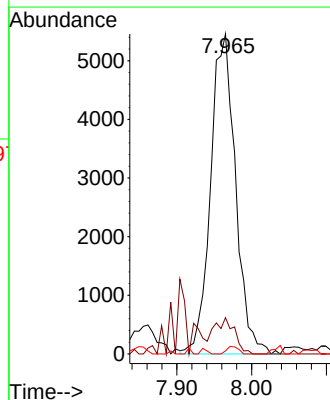
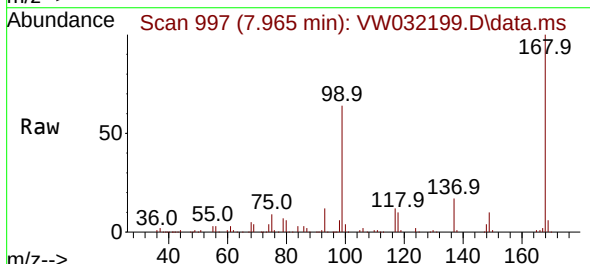
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 ClientSampleId :
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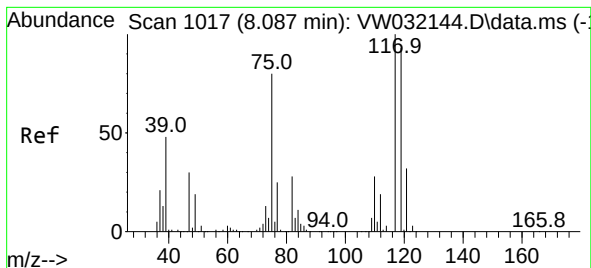
Tgt Ion:113 Resp: 104328
 Ion Ratio Lower Upper
 113 100
 111 103.4 83.9 125.9
 192 16.5 14.6 21.8



#36
 1,1-Dichloropropene
 Concen: 4.888 ug/l
 RT: 7.965 min Scan# 997
 Delta R.T. -0.135 min
 Lab File: VW032199.D
 Acq: 18 Sep 2025 15:04

Tgt Ion: 75 Resp: 12669
 Ion Ratio Lower Upper
 75 100
 110 9.2 17.5 52.5#
 77 1.1 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 5.507 ug/l

RT: 7.965 min Scan# 917

Delta R.T. -0.122 min

Lab File: VW032199.D

Acq: 18 Sep 2025 15:04

Instrument :

MSVOA_W

ClientSampleId :

361

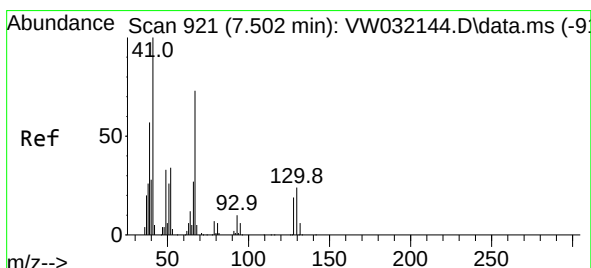
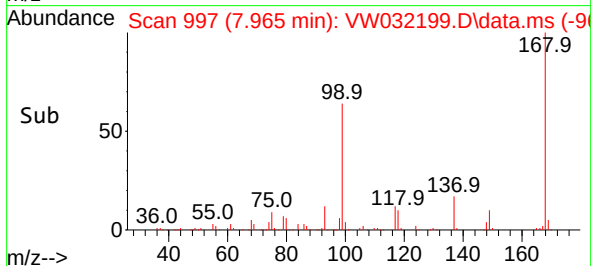
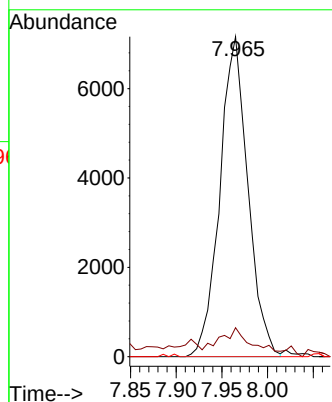
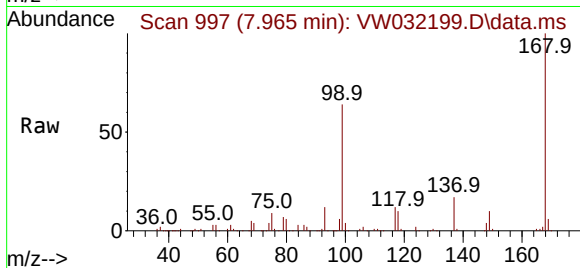
Tgt Ion: 117 Resp: 15301

Ion Ratio Lower Upper

117 100

119 7.3 74.2 111.2#

121 0.0 25.6 38.4#



#41

Methacrylonitrile

Concen: 1.029 ug/l

RT: 7.477 min Scan# 917

Delta R.T. -0.025 min

Lab File: VW032199.D

Acq: 18 Sep 2025 15:04

Tgt Ion: 41 Resp: 889

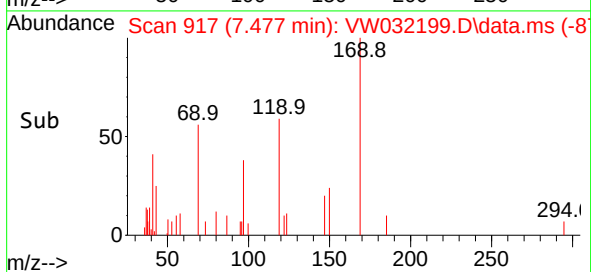
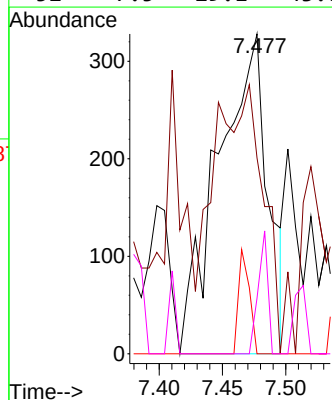
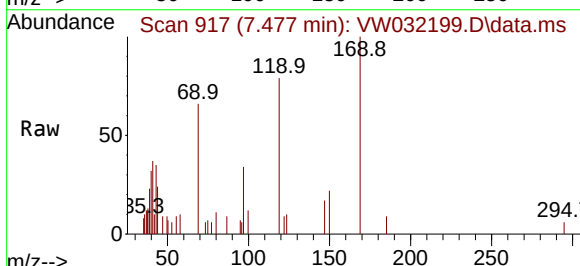
Ion Ratio Lower Upper

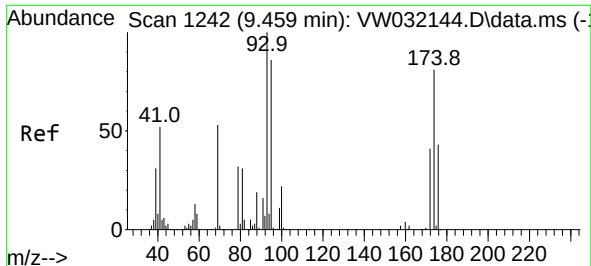
41 100

39 0.0 50.9 76.3#

67 7.2 65.6 98.4#

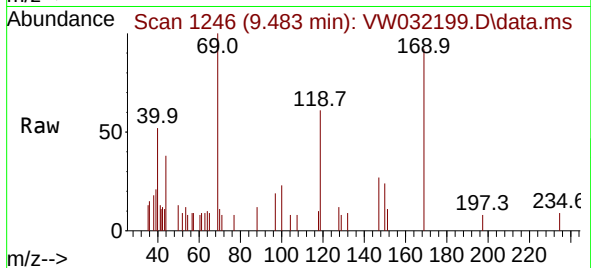
52 7.5 29.1 43.7#



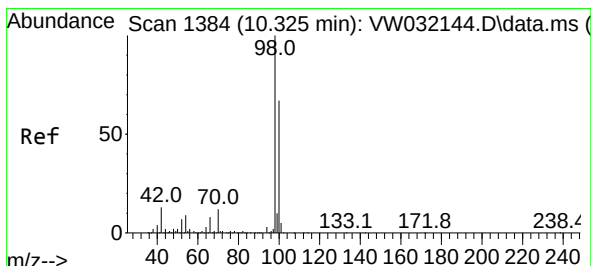
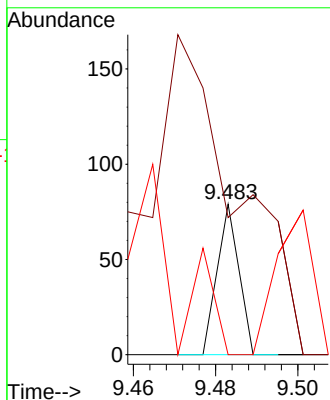
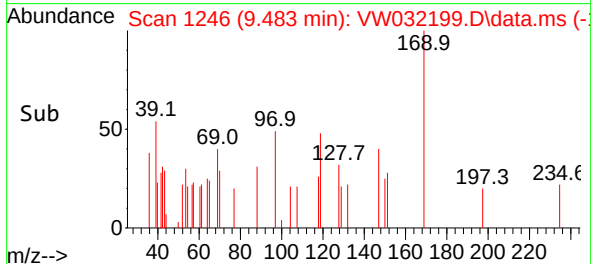


#49
1,4-Dioxane
Concen: 1.772 ug/l
RT: 9.483 min Scan# 11
Delta R.T. 0.024 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

Instrument :
MSVOA_W
ClientSampleId :
361

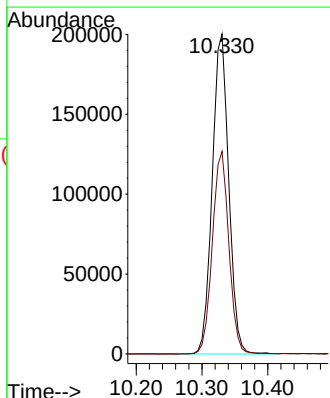
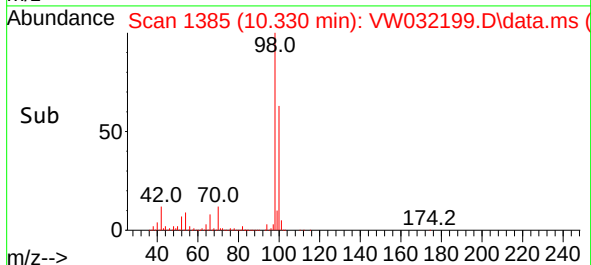
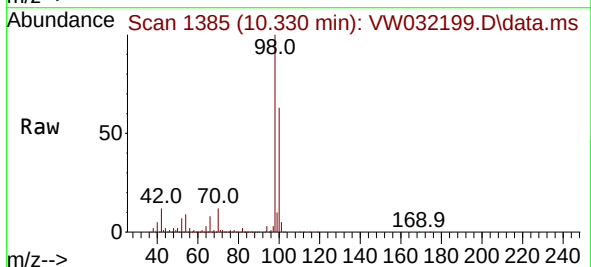


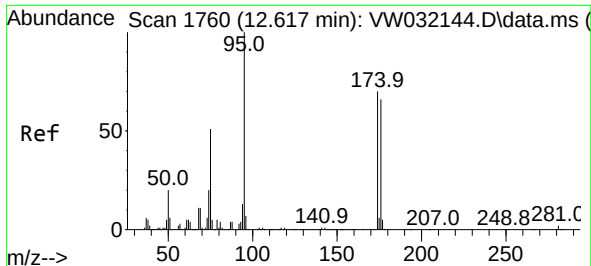
Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 862.1 18.0 27.0#
58 0.0 55.4 83.0#



#50
Toluene-d8
Concen: 49.699 ug/l
RT: 10.330 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

Tgt Ion: 98 Resp: 348779
Ion Ratio Lower Upper
98 100
100 63.6 51.4 77.2

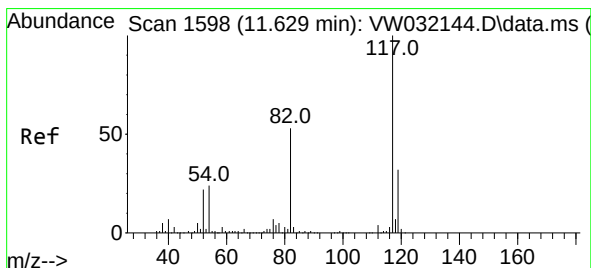
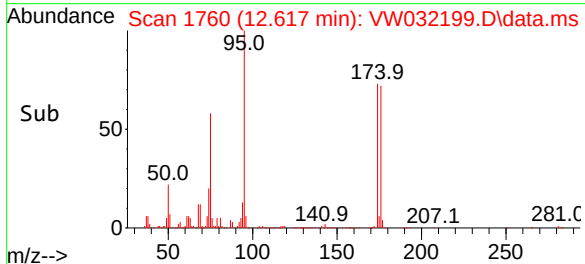
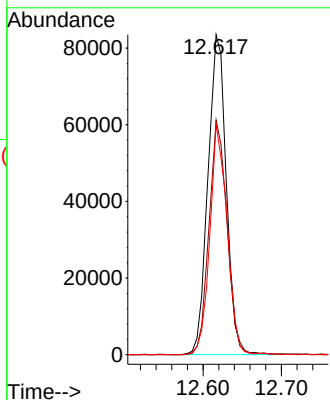
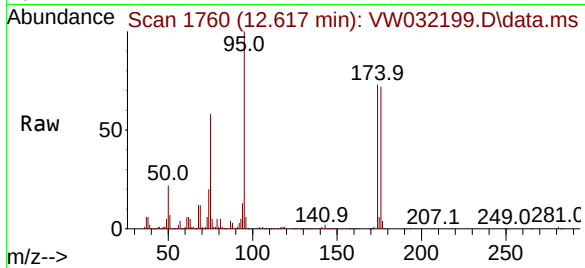




#62
4-Bromofluorobenzene
Concen: 52.206 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

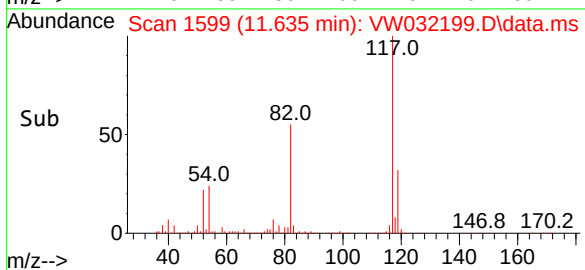
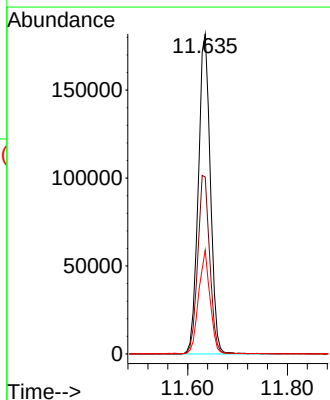
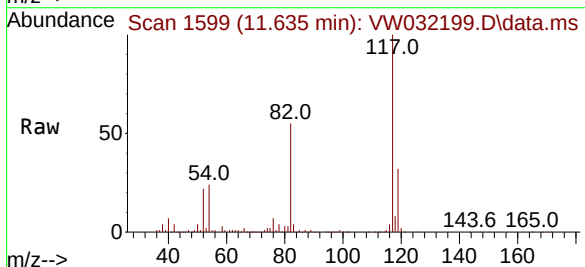
Instrument :
MSVOA_W
ClientSampleId :
361

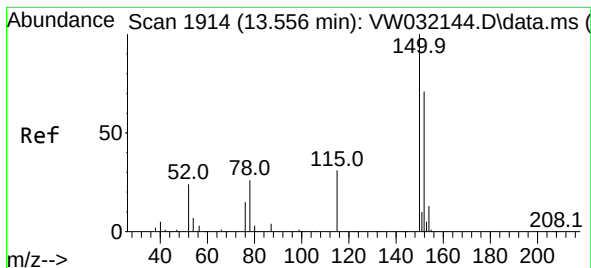
Tgt Ion: 95 Resp: 135476
Ion Ratio Lower Upper
95 100
174 72.4 0.0 145.6
176 68.4 0.0 140.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

Tgt Ion: 117 Resp: 305196
Ion Ratio Lower Upper
117 100
82 55.3 42.7 64.1
119 32.4 25.2 37.8

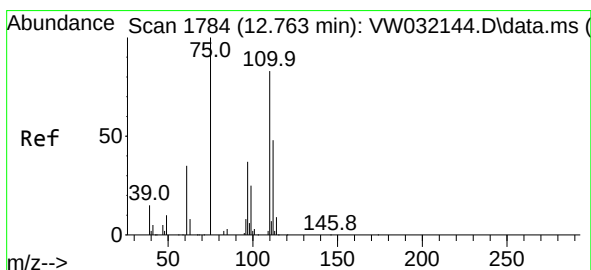
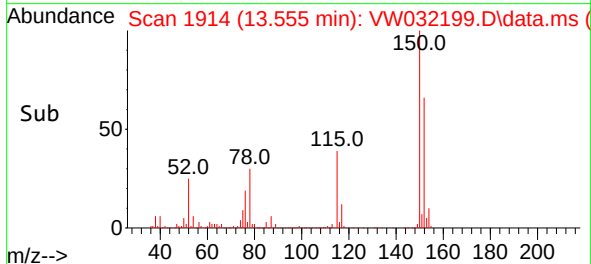
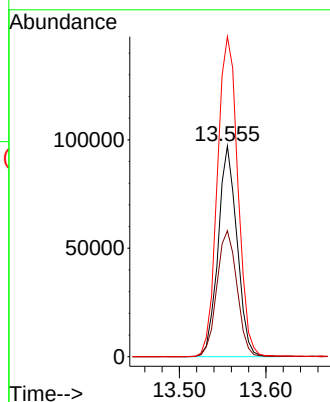
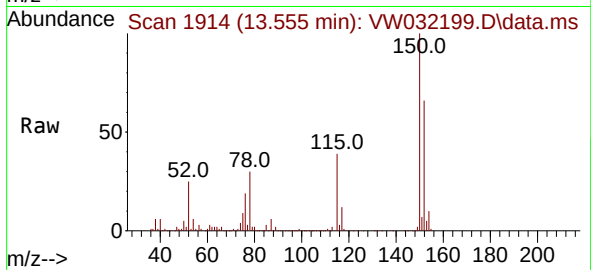




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.555 min Scan# 1914
 Delta R.T. -0.000 min
 Lab File: VW032199.D
 Acq: 18 Sep 2025 15:04

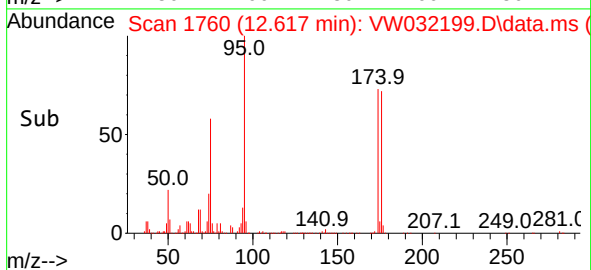
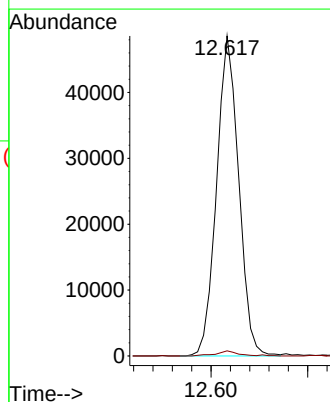
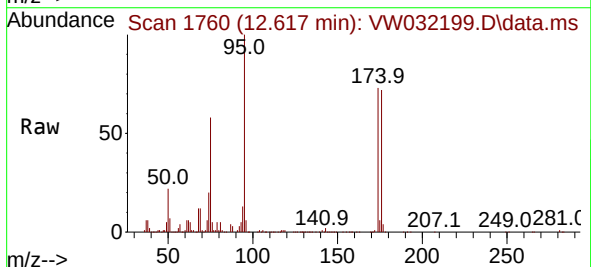
Instrument :
 MSVOA_W
 ClientSampleId :
 361

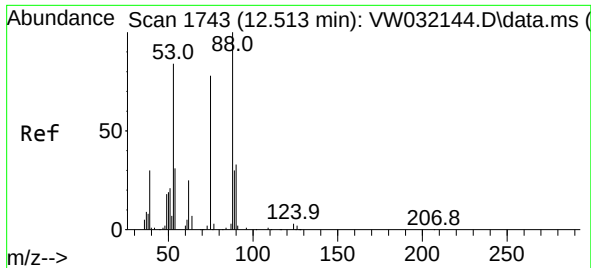
Tgt Ion:152 Resp: 147493
 Ion Ratio Lower Upper
 152 100
 115 63.7 31.8 95.4
 150 164.8 0.0 343.0



#76
 1,2,3-Trichloropropane
 Concen: 41.624 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.147 min
 Lab File: VW032199.D
 Acq: 18 Sep 2025 15:04

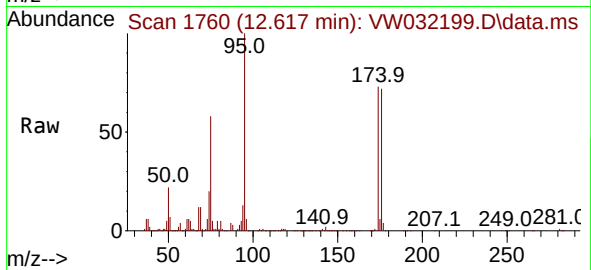
Tgt Ion: 75 Resp: 76913
 Ion Ratio Lower Upper
 75 100
 77 1.5 141.7 425.1#





#81
trans-1,4-Dichloro-2-butene
Concen: 112.072 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.103 min
Lab File: VW032199.D
Acq: 18 Sep 2025 15:04

Instrument :
MSVOA_W
ClientSampleId :
361



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	91.0	136.6#
89	0.2	39.4	59.2#

