

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100225\
 Data File : VW032327.D
 Acq On : 02 Oct 2025 13:13
 Operator : SY/MD
 Sample : Q3257-01
 Misc : 9.45g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 02 21:37:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 02 21:24:16 2025
 Response via : Initial Calibration

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

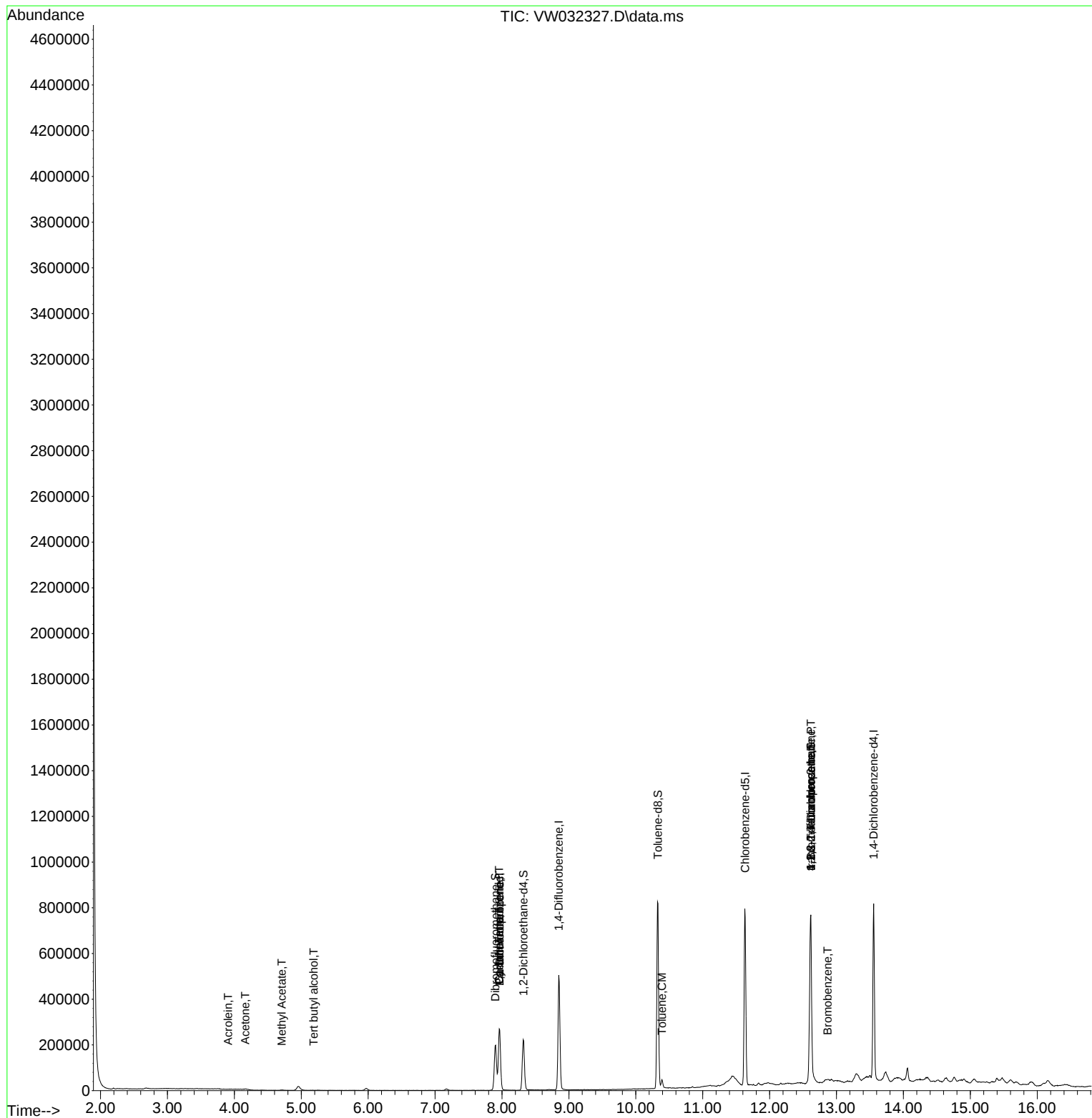
Internal Standards						
1) Pentafluorobenzene	7.965	168	186871	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	415708	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	435605	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	191597	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	182617	67.000	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 134.000%			
35) Dibromofluoromethane	7.898	113	147433	54.764	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 109.520%			
50) Toluene-d8	10.331	98	564699	56.832	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 113.660%			
62) 4-Bromofluorobenzene	12.617	95	215758	57.450	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 114.900%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.185	59	323	1.566	ug/l #	69
13) Acrolein	3.905	56	353	1.054	ug/l	99
16) Acetone	4.161	43	2108	2.793	ug/l #	87
18) Methyl Acetate	4.710	43	3458	1.599	ug/l	99
31) Cyclohexane	7.959	56	4952	1.291	ug/l #	28
36) 1,1-Dichloropropene	7.965	75	17524	4.612	ug/l #	50
38) Carbon Tetrachloride	7.959	117	22407	6.267	ug/l #	17
52) Toluene	10.392	92	14770	1.992	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.617	83	14625	4.493	ug/l #	33
76) 1,2,3-Trichloropropane	12.617	75	107345	42.575	ug/l #	1
77) Bromobenzene	12.867	156	21499	6.804	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	107345	107.854	ug/l #	7

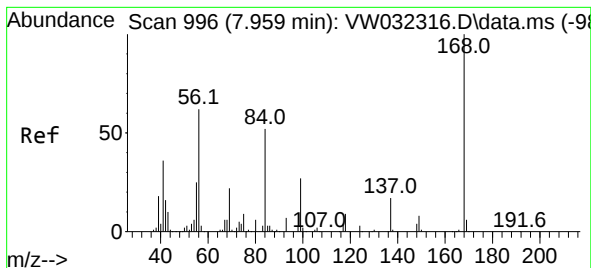
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.965 min Scan# 99

Delta R.T. 0.000 min

Lab File: VW032327.D

Acq: 02 Oct 2025 13:13

Instrument :

MSVOA_W

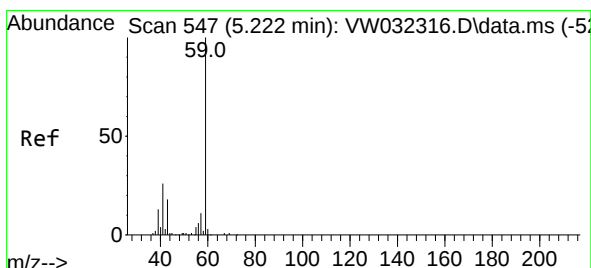
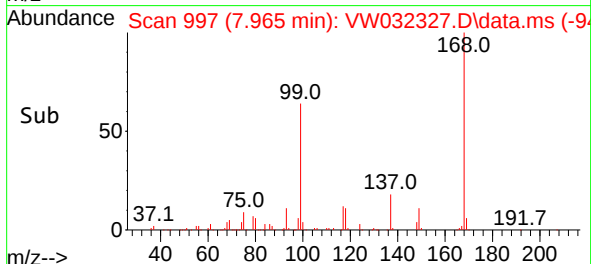
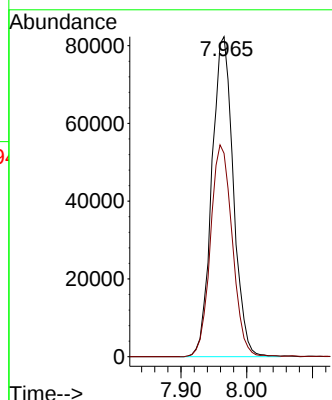
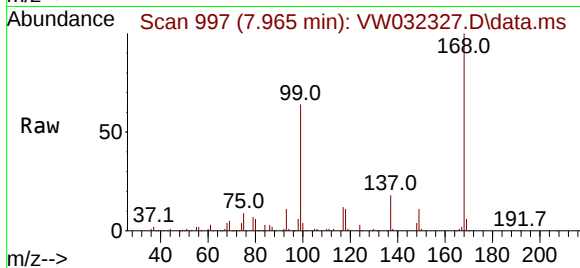
ClientSampleId :

Tgt Ion:168 Resp: 186871

Ion Ratio Lower Upper

168 100

99 63.5 49.3 73.9



#11

Tert butyl alcohol

Concen: 1.566 ug/l

RT: 5.185 min Scan# 541

Delta R.T. -0.037 min

Lab File: VW032327.D

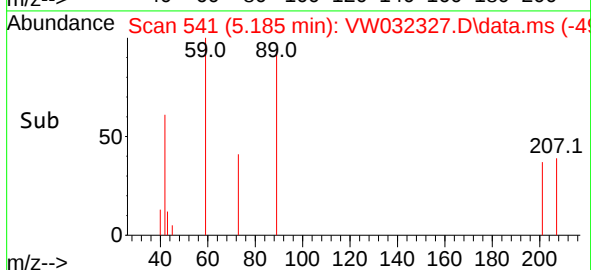
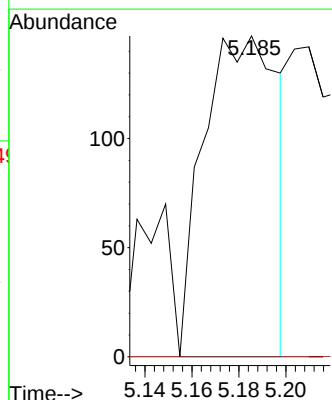
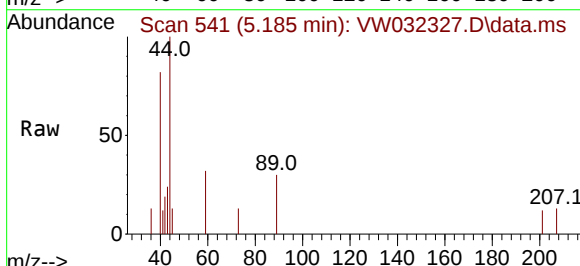
Acq: 02 Oct 2025 13:13

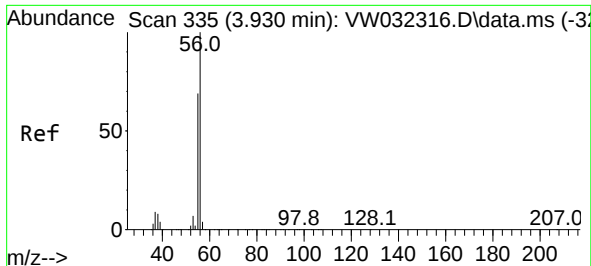
Tgt Ion: 59 Resp: 323

Ion Ratio Lower Upper

59 100

57 0.0 9.8 14.6#

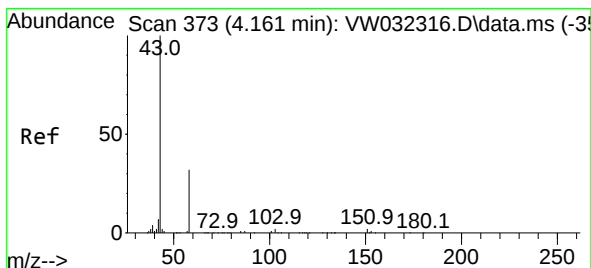
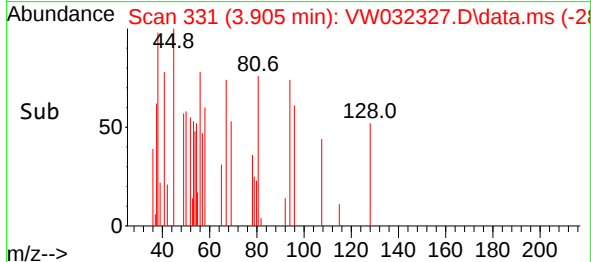
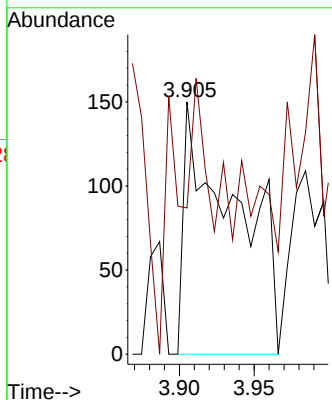
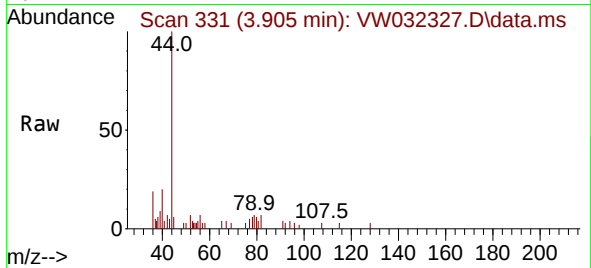




#13
Acrolein
Concen: 1.054 ug/l
RT: 3.905 min Scan# 331
Delta R.T. -0.024 min
Lab File: VW032327.D
Acq: 02 Oct 2025 13:13

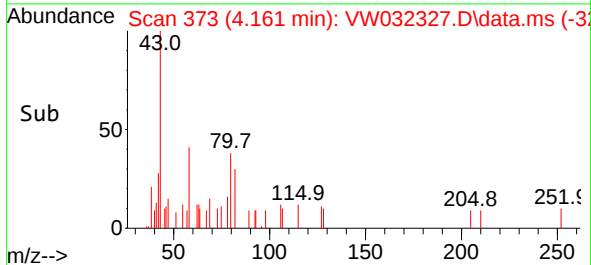
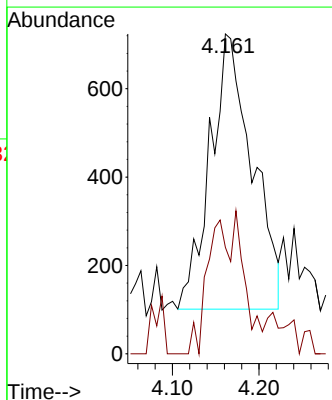
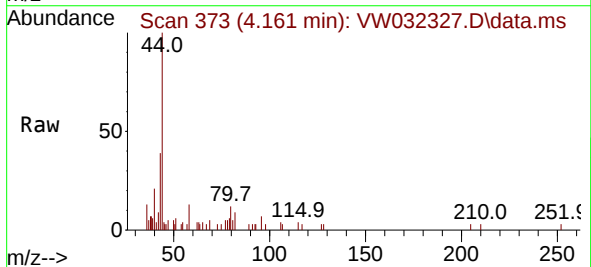
Instrument :
MSVOA_W
ClientSampleId :

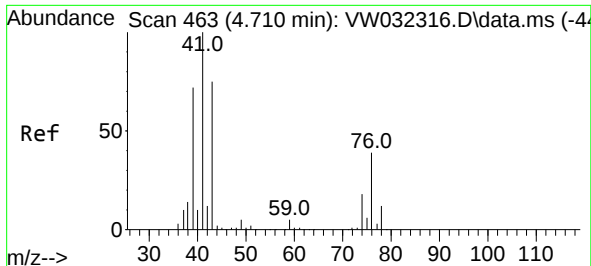
Tgt Ion: 56 Resp: 353
Ion Ratio Lower Upper
56 100
55 70.0 56.4 84.6



#16
Acetone
Concen: 2.793 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032327.D
Acq: 02 Oct 2025 13:13

Tgt Ion: 43 Resp: 2108
Ion Ratio Lower Upper
43 100
58 38.7 25.3 37.9#

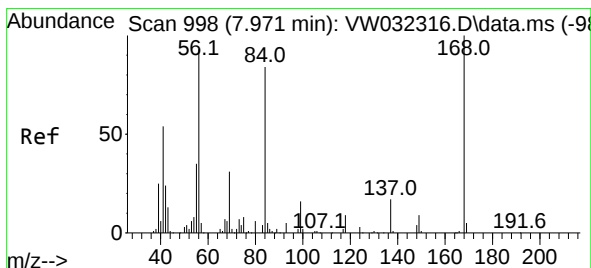
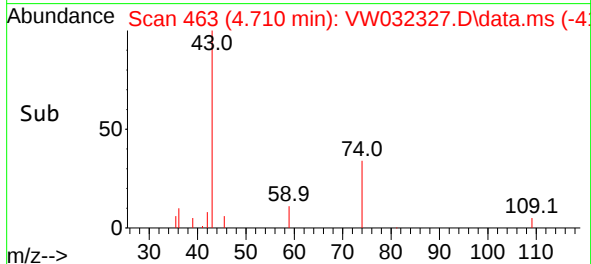
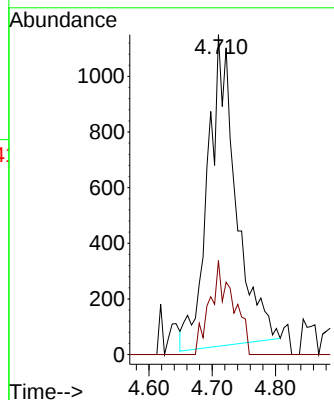
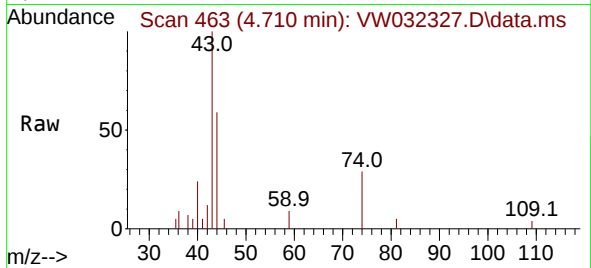




#18
Methyl Acetate
Concen: 1.599 ug/l
RT: 4.710 min Scan# 410
Delta R.T. -0.000 min
Lab File: VW032327.D
Acq: 02 Oct 2025 13:13

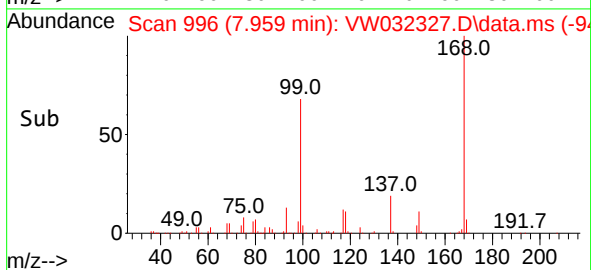
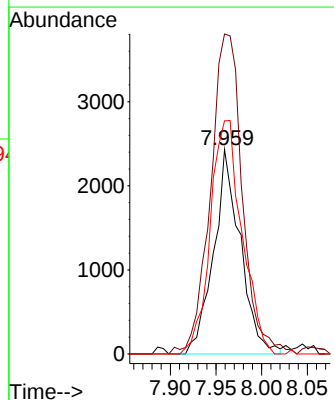
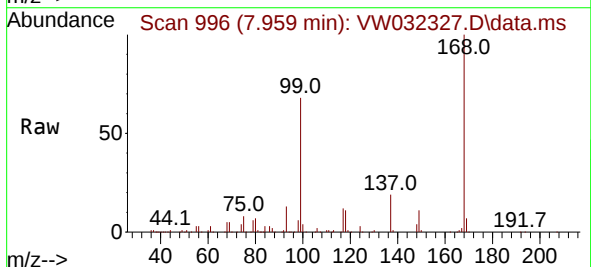
Instrument :
MSVOA_W
ClientSampleId :

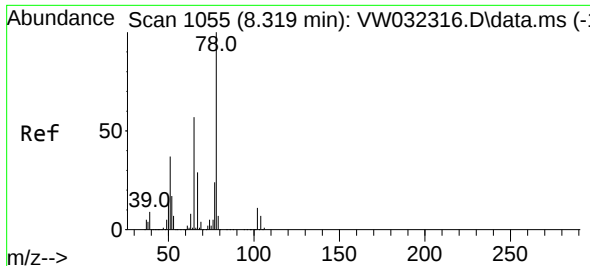
Tgt Ion: 43 Resp: 3458
Ion Ratio Lower Upper
43 100
74 25.0 20.2 30.4



#31
Cyclohexane
Concen: 1.291 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032327.D
Acq: 02 Oct 2025 13:13

Tgt Ion: 56 Resp: 4952
Ion Ratio Lower Upper
56 100
69 154.2 27.7 41.5#
84 114.0 74.6 112.0#





#33

1,2-Dichloroethane-d4

Concen: 67.000 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032327.D

Acq: 02 Oct 2025 13:13

Instrument :

MSVOA_W

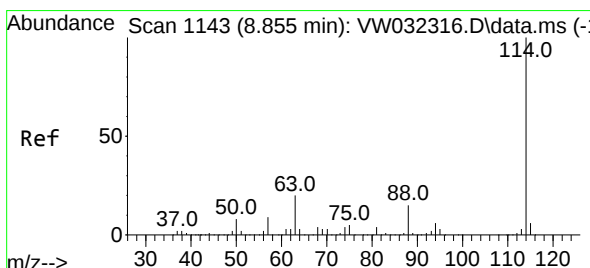
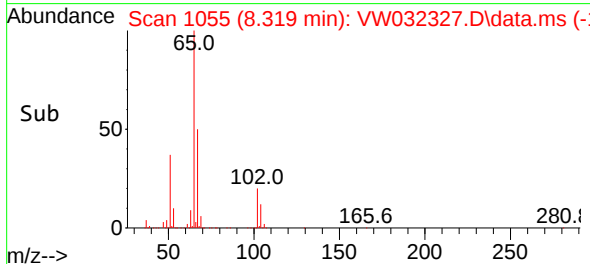
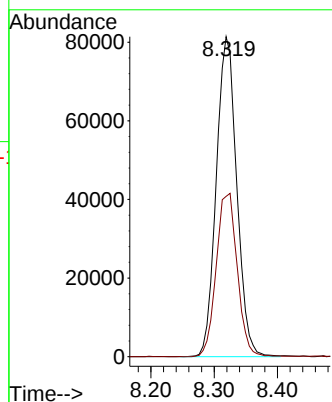
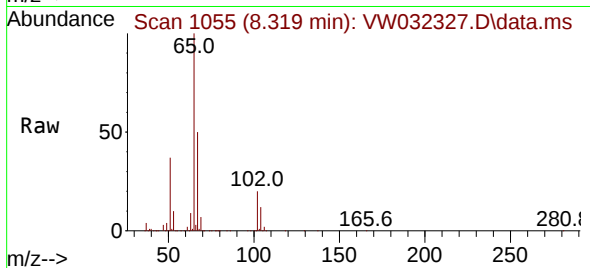
ClientSampleId :

Tgt Ion: 65 Resp: 182617

Ion Ratio Lower Upper

65 100

67 52.6 0.0 99.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VW032327.D

Acq: 02 Oct 2025 13:13

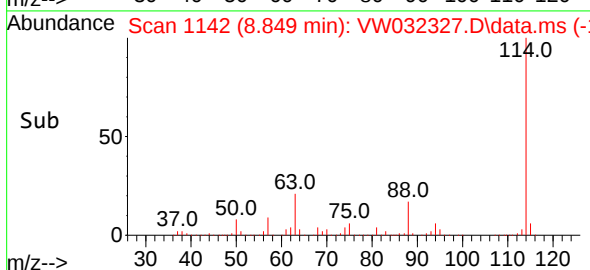
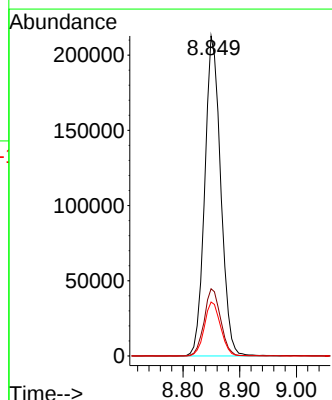
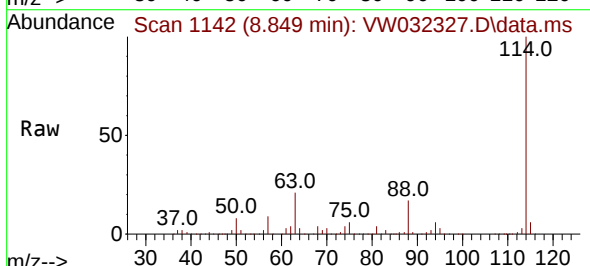
Tgt Ion: 114 Resp: 415708

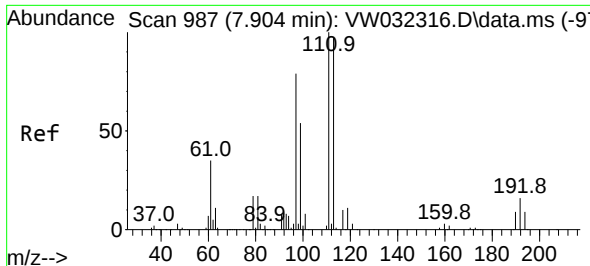
Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.4

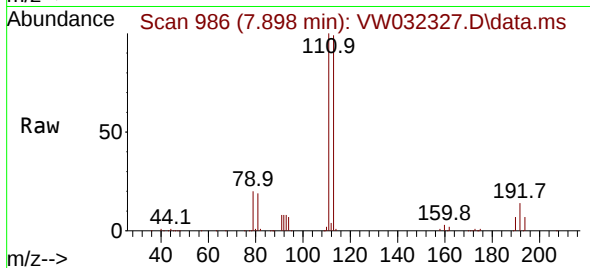
88 16.9 0.0 32.0



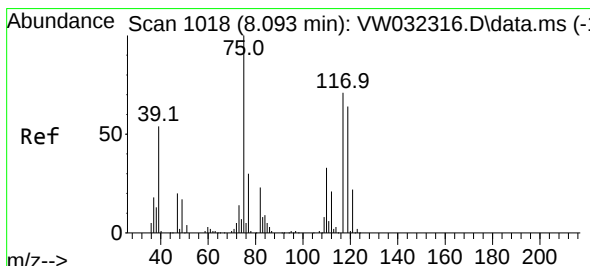
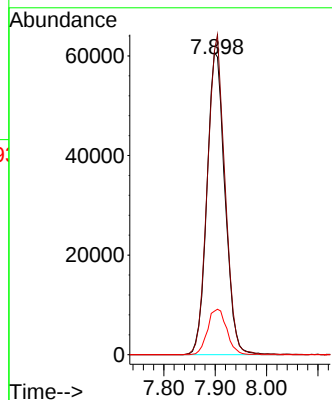
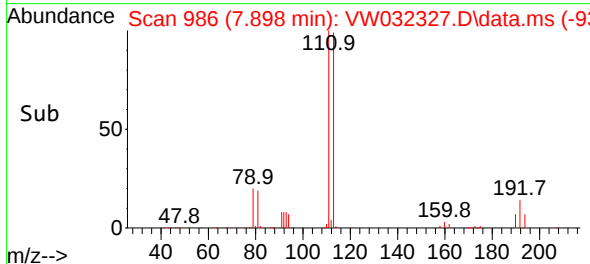


#35
 Dibromofluoromethane
 Concen: 54.764 ug/l
 RT: 7.898 min Scan# 991
 Delta R.T. -0.006 min
 Lab File: VW032327.D
 Acq: 02 Oct 2025 13:13

Instrument :
 MSVOA_W
 ClientSampleId :

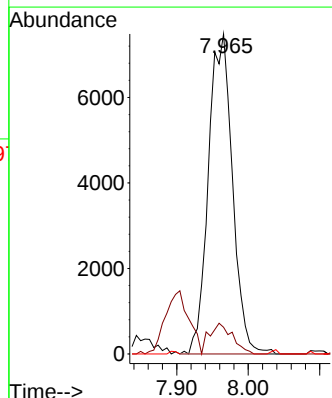
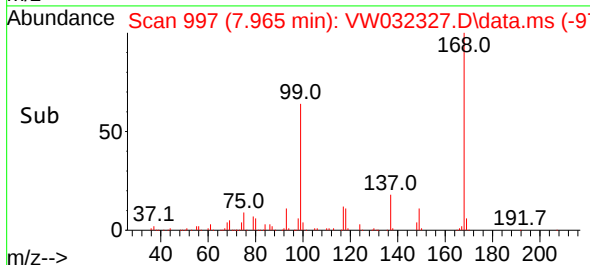
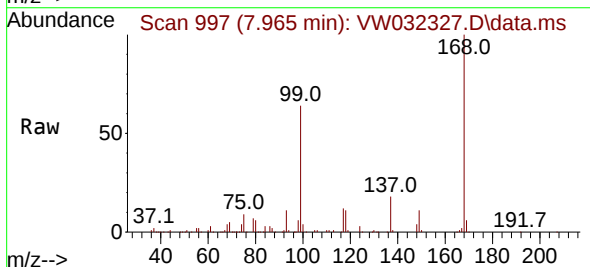


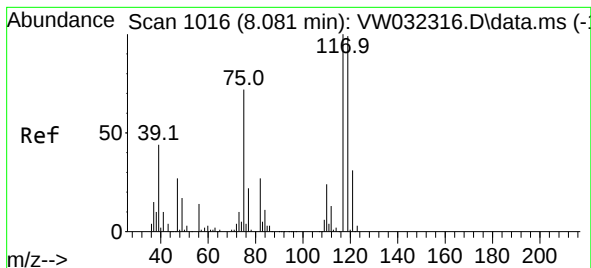
Tgt Ion:113 Resp: 147433
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.9 125.9
 192 16.1 14.6 21.8



#36
 1,1-Dichloropropene
 Concen: 4.612 ug/l
 RT: 7.965 min Scan# 997
 Delta R.T. -0.134 min
 Lab File: VW032327.D
 Acq: 02 Oct 2025 13:13

Tgt Ion: 75 Resp: 17524
 Ion Ratio Lower Upper
 75 100
 110 9.2 17.5 52.5#
 77 0.0 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 6.267 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.128 min

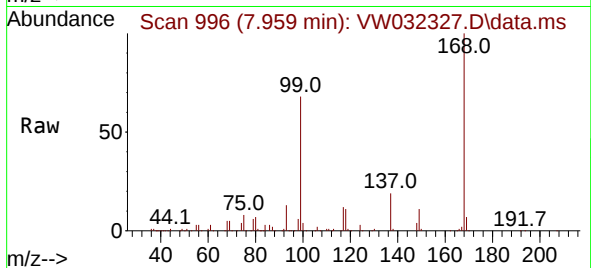
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Acq: 02 Oct 2025 13:13

Instrument :

MSVOA_W

ClientSampleId :



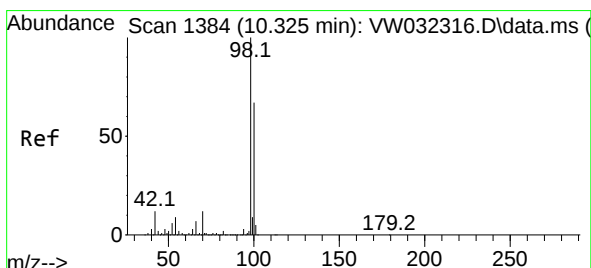
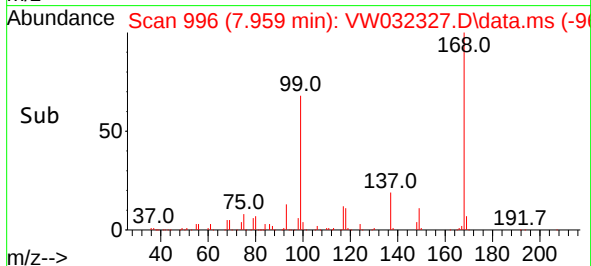
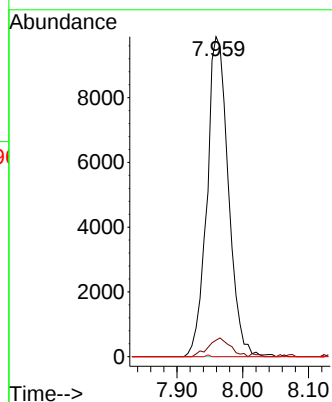
Tgt Ion:117 Resp: 22407

Ion Ratio Lower Upper

117 100

119 5.2 74.2 111.2#

121 0.0 25.6 38.4#



#50

Toluene-d8

Concen: 56.832 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032327.D

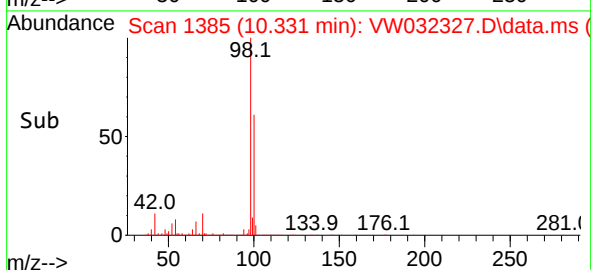
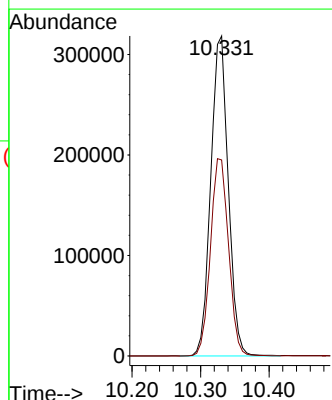
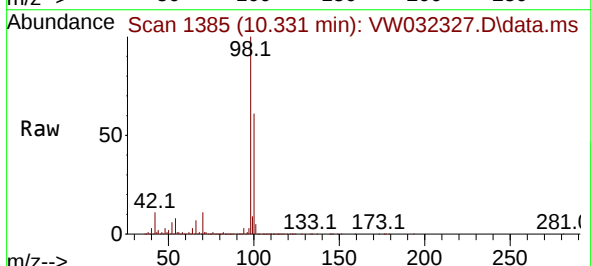
Acq: 02 Oct 2025 13:13

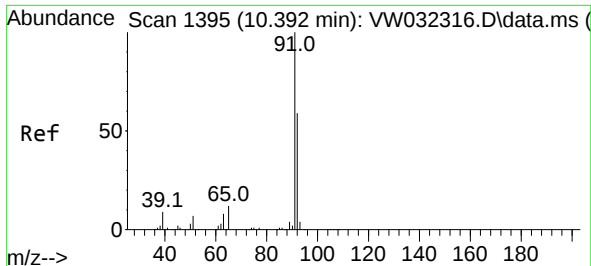
Tgt Ion: 98 Resp: 564699

Ion Ratio Lower Upper

98 100

100 63.8 51.4 77.2

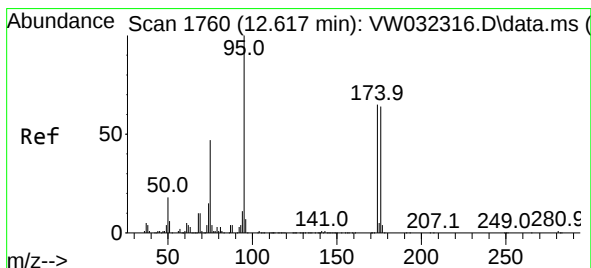
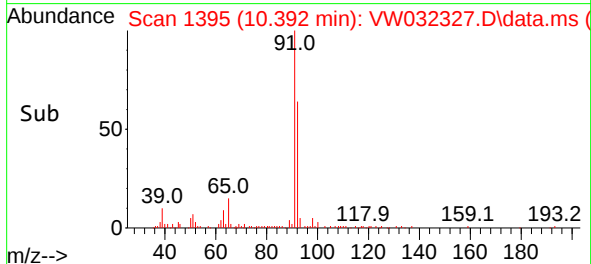
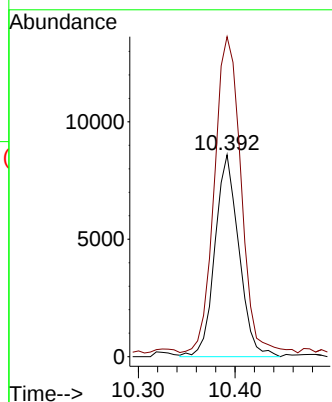
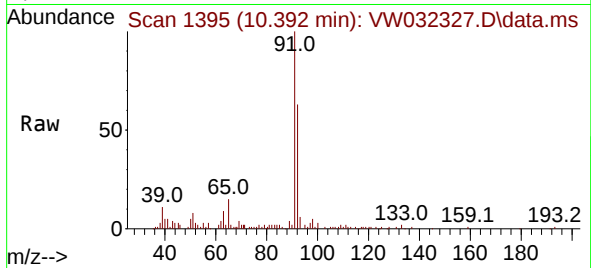




#52
Toluene
Concen: 1.992 ug/l
RT: 10.392 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032327.D
Acq: 02 Oct 2025 13:13

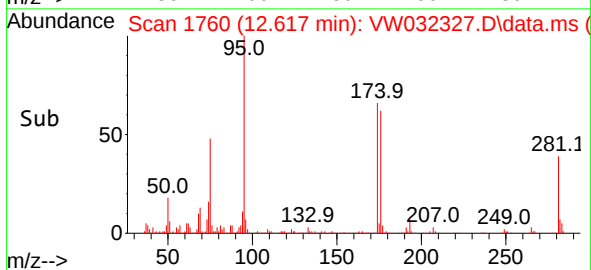
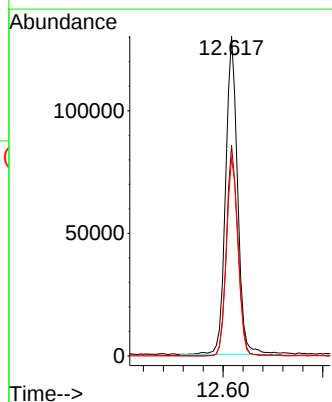
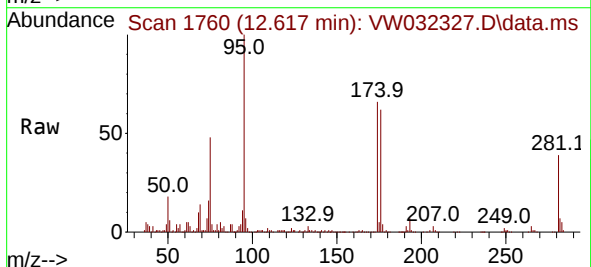
Instrument :
MSVOA_W
ClientSampleId :

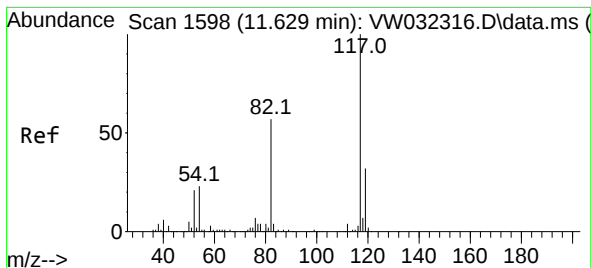
Tgt Ion: 92 Resp: 14770
Ion Ratio Lower Upper
92 100
91 173.4 137.5 206.3



#62
4-Bromofluorobenzene
Concen: 57.450 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032327.D
Acq: 02 Oct 2025 13:13

Tgt Ion: 95 Resp: 215758
Ion Ratio Lower Upper
95 100
174 63.4 0.0 145.6
176 60.4 0.0 140.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW032327.D

Acq: 02 Oct 2025 13:13

Instrument :

MSVOA_W

ClientSampleId :

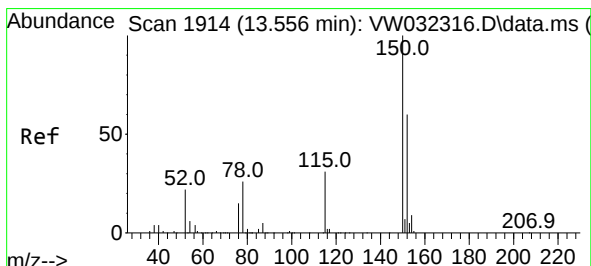
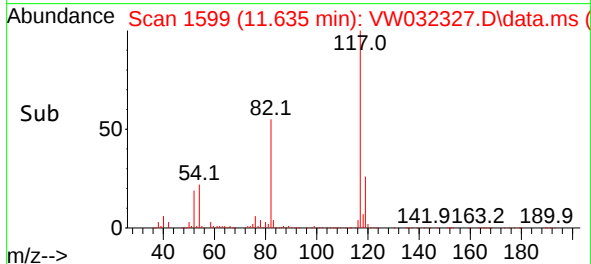
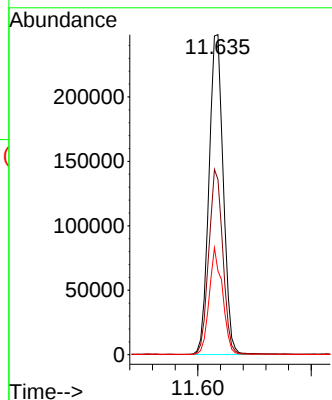
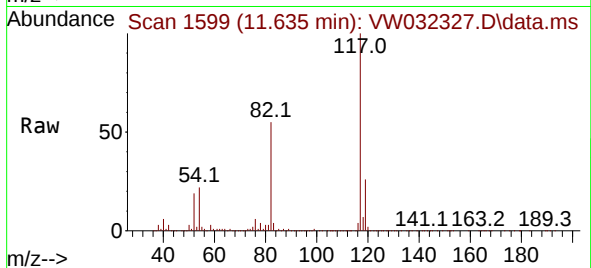
Tgt Ion:117 Resp: 435605

Ion Ratio Lower Upper

117 100

82 54.7 42.7 64.1

119 26.1 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032327.D

Acq: 02 Oct 2025 13:13

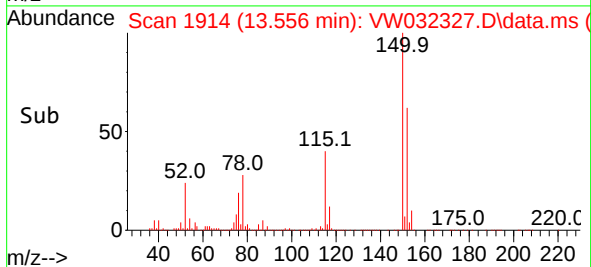
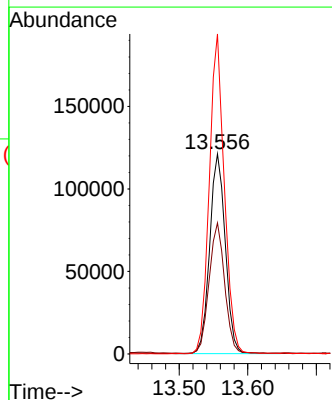
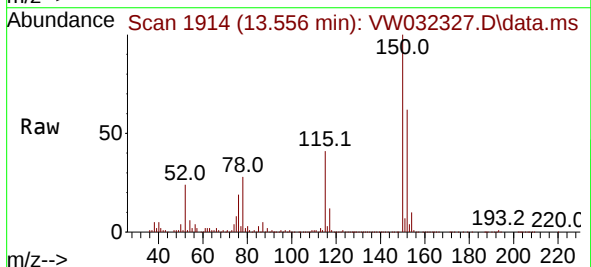
Tgt Ion:152 Resp: 191597

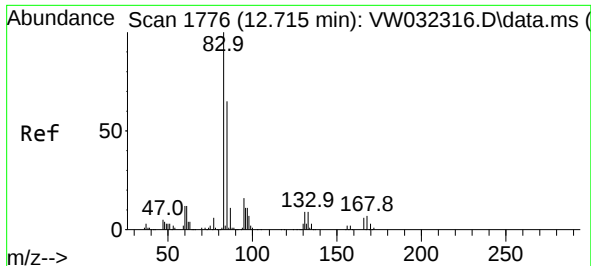
Ion Ratio Lower Upper

152 100

115 65.2 31.8 95.4

150 154.0 0.0 343.0

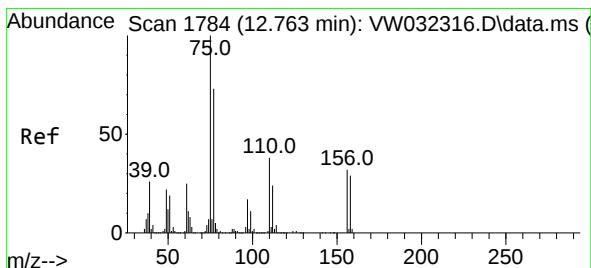
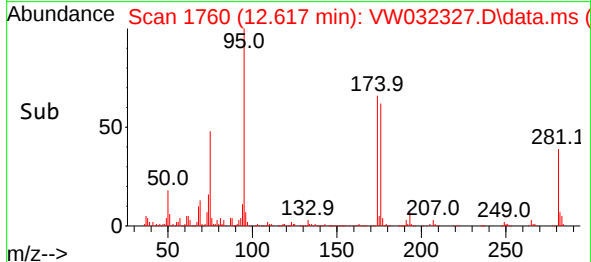
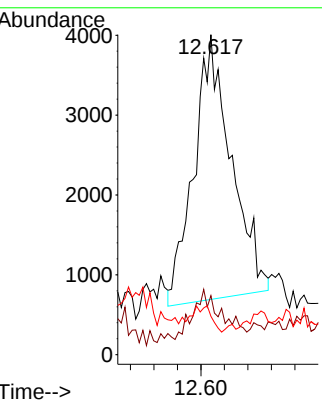
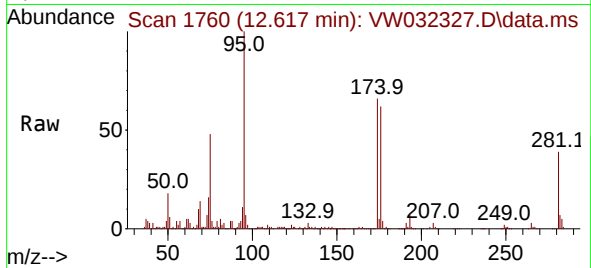




#75
1,1,2,2-Tetrachloroethane
Concen: 4.493 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.098 min
Lab File: VW032327.D
Acq: 02 Oct 2025 13:13

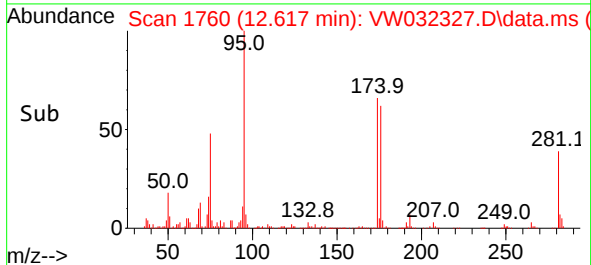
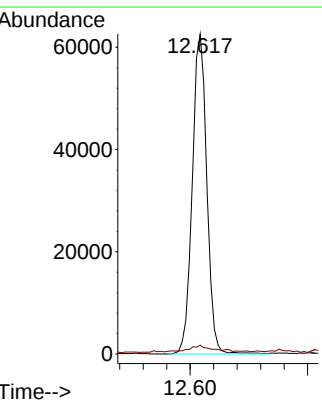
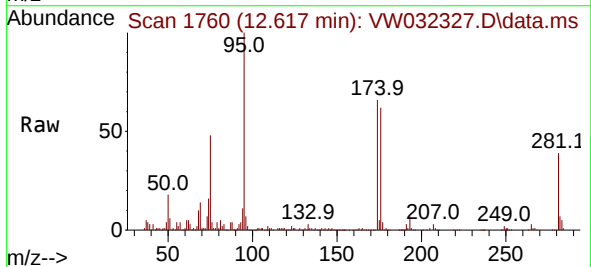
Instrument :
MSVOA_W
ClientSampleId :

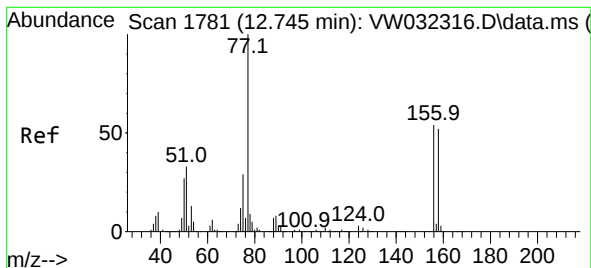
Tgt Ion: 83 Resp: 14625
Ion Ratio Lower Upper
83 100
131 14.9 5.1 15.4
85 5.0 32.2 96.6#



#76
1,2,3-Trichloropropane
Concen: 42.575 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032327.D
Acq: 02 Oct 2025 13:13

Tgt Ion: 75 Resp: 107345
Ion Ratio Lower Upper
75 100
77 3.4 141.7 425.1#





#77

Bromobenzene

Concen: 6.804 ug/l

RT: 12.867 min Scan# 1760

Delta R.T. 0.122 min

Lab File: VW032327.D

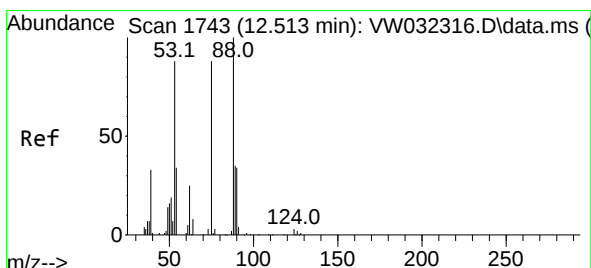
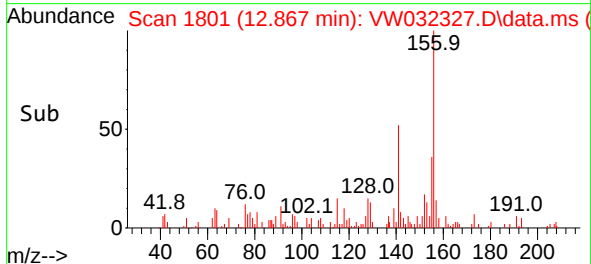
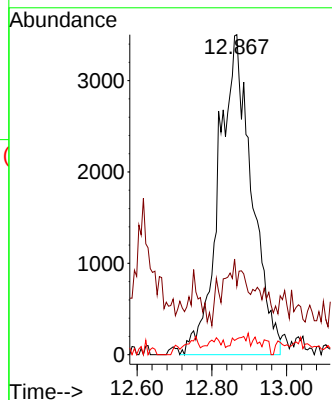
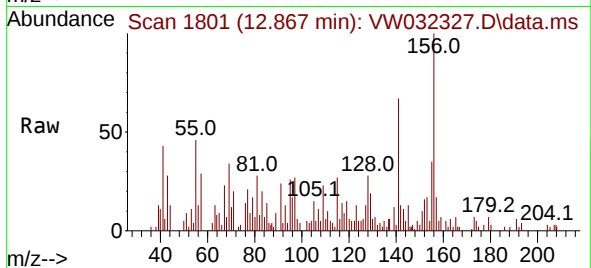
Acq: 02 Oct 2025 13:13

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	156	Resp:	21499
Ion Ratio	Lower	Upper	
156	100		
77	3.5	98.6	295.7#
158	0.0	48.4	145.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.854 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. 0.104 min

Lab File: VW032327.D

Acq: 02 Oct 2025 13:13

Tgt Ion:	75	Resp:	107345
Ion Ratio	Lower	Upper	
75	100		
53	2.6	91.0	136.6#
89	1.8	39.4	59.2#

