

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092225\
 Data File : VW032228.D
 Acq On : 22 Sep 2025 12:33
 Operator : SY/MD
 Sample : Q3157-01
 Misc : 5.45g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 20-DEAD-1

Quant Time: Sep 23 06:06:28 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)

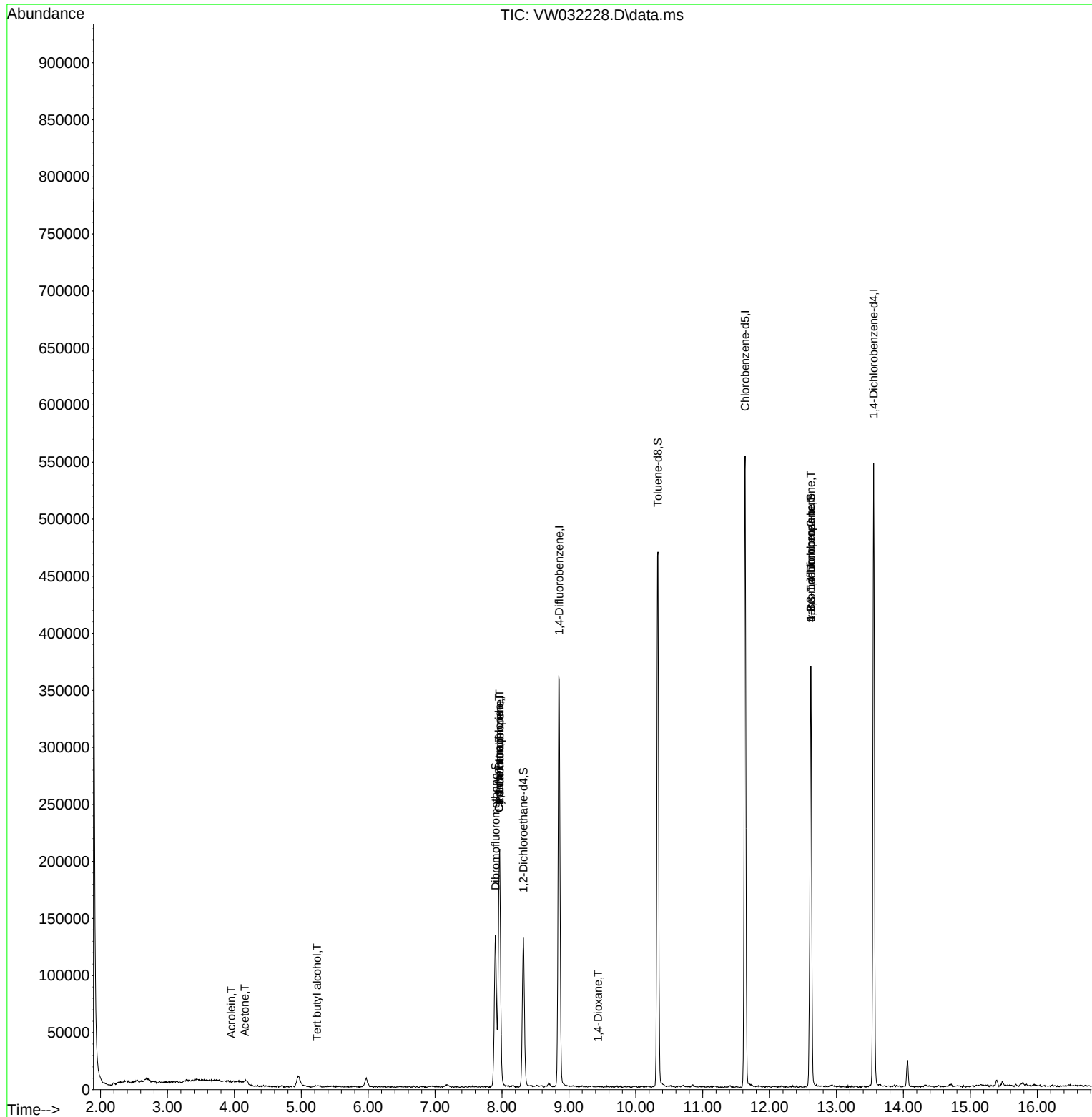
Internal Standards						
1) Pentafluorobenzene	7.965	168	145332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	298948	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	293437	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	133482	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	105795	50.901	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	=	101.800%	
35) Dibromofluoromethane	7.904	113	90602	43.197	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	=	86.400%	
50) Toluene-d8	10.331	98	313344	42.557	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	=	85.120%	
62) 4-Bromofluorobenzene	12.617	95	103036	37.844	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	=	75.680%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.234	59	289	2.273	ug/l #	69
13) Acrolein	3.954	56	309	1.581	ug/l #	38
16) Acetone	4.155	43	1456	3.235	ug/l	90
31) Cyclohexane	7.959	56	4347	1.704	ug/l #	33
36) 1,1-Dichloropropene	7.965	75	13373	4.918	ug/l #	52
38) Carbon Tetrachloride	7.959	117	16606	5.696	ug/l #	20
49) 1,4-Dioxane	9.434	88	29	1.689	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	58853	35.194	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	58853	94.758	ug/l #	5

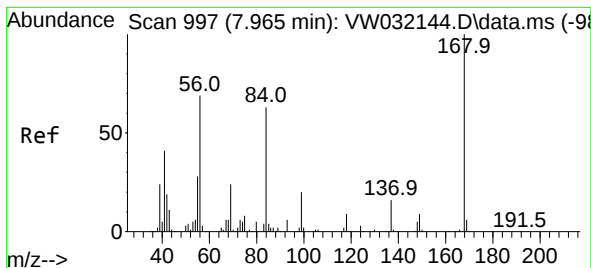
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 27 04:13:40 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: VW032228.D

Acq: 22 Sep 2025 12:33

Instrument :

MSVOA_W

ClientSampleId :

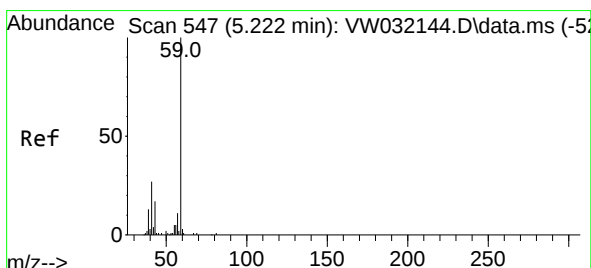
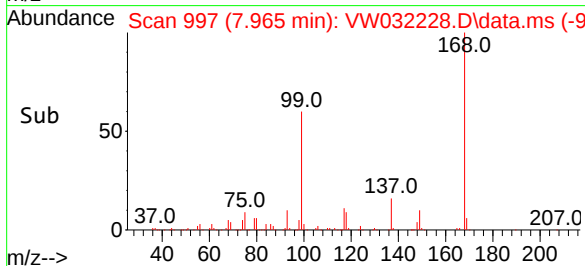
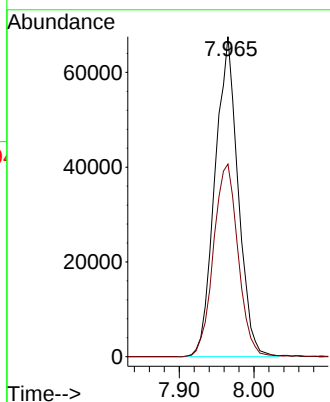
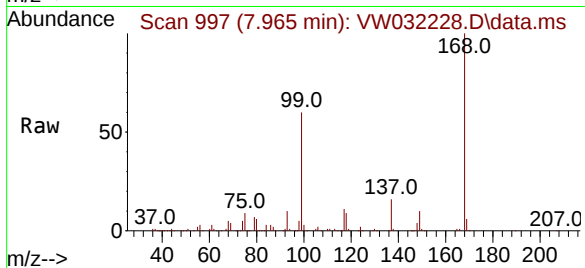
20-DEAD-1

Tgt Ion:168 Resp: 145332

Ion Ratio Lower Upper

168 100

99 60.2 49.3 73.9



#11

Tert butyl alcohol

Concen: 2.273 ug/l

RT: 5.234 min Scan# 549

Delta R.T. 0.012 min

Lab File: VW032228.D

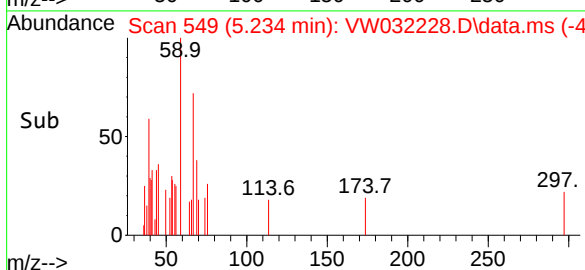
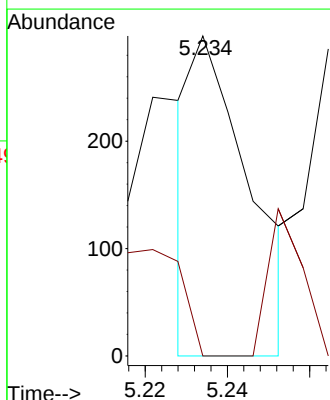
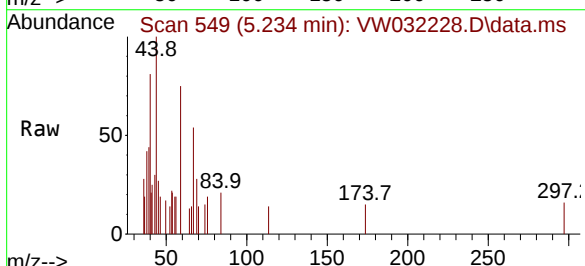
Acq: 22 Sep 2025 12:33

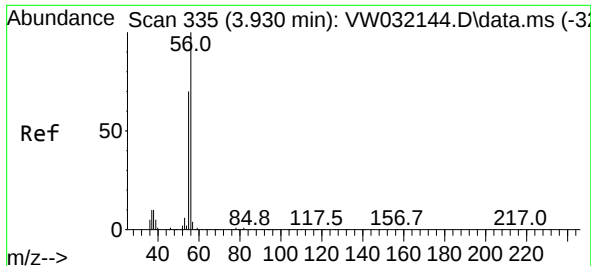
Tgt Ion: 59 Resp: 289

Ion Ratio Lower Upper

59 100

57 0.0 9.8 14.6#





#13

Acrolein

Concen: 1.581 ug/l

RT: 3.954 min Scan# 31

Delta R.T. 0.024 min

Lab File: VW032228.D

Acq: 22 Sep 2025 12:33

Instrument :

MSVOA_W

ClientSampleId :

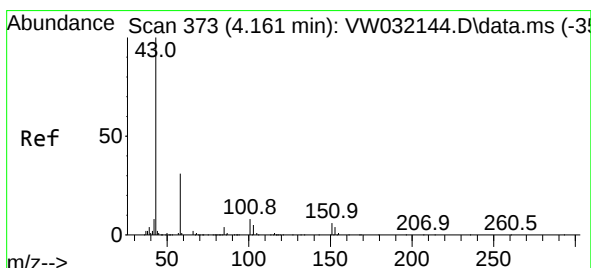
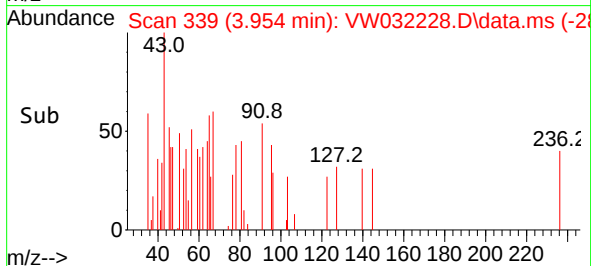
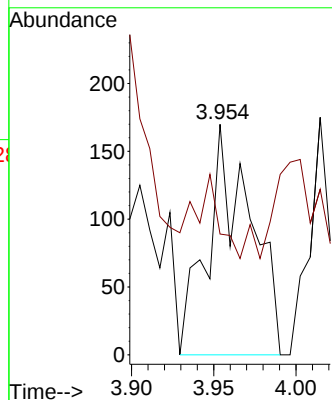
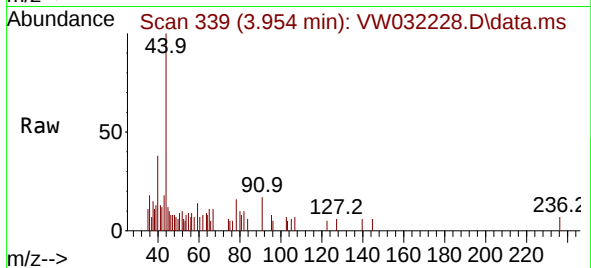
20-DEAD-1

Tgt Ion: 56 Resp: 309

Ion Ratio Lower Upper

56 100

55 19.4 56.4 84.6#



#16

Acetone

Concen: 3.235 ug/l

RT: 4.155 min Scan# 372

Delta R.T. -0.006 min

Lab File: VW032228.D

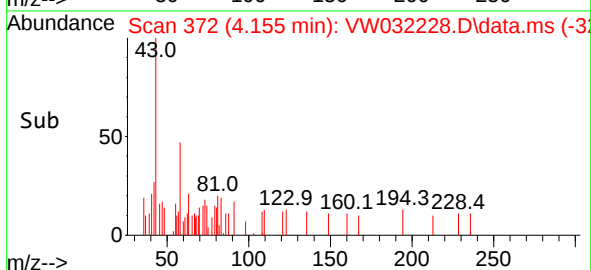
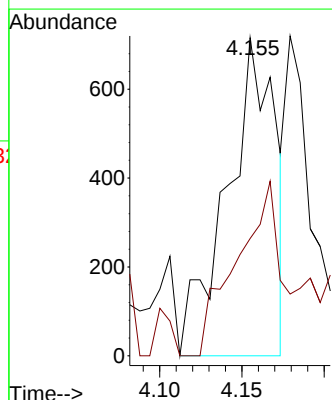
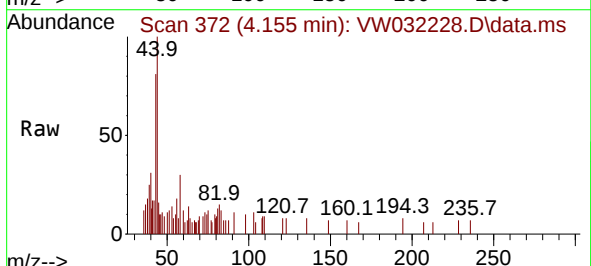
Acq: 22 Sep 2025 12:33

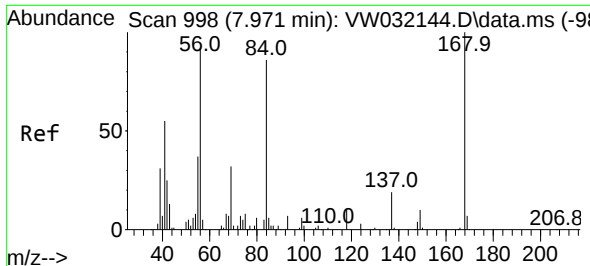
Tgt Ion: 43 Resp: 1456

Ion Ratio Lower Upper

43 100

58 36.9 25.3 37.9

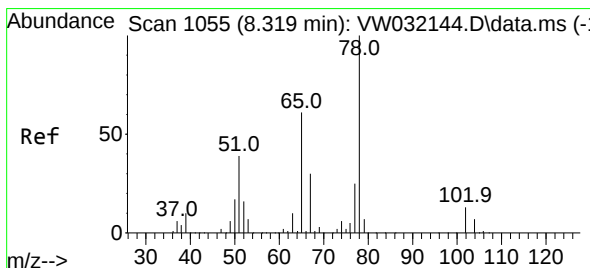
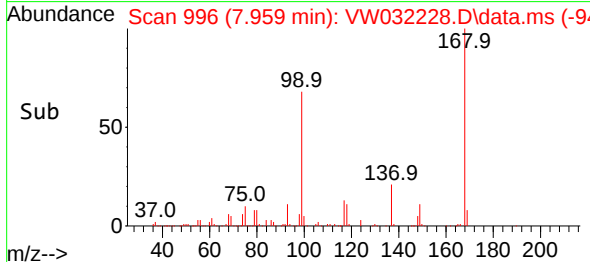
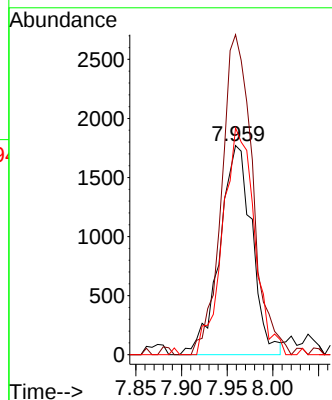
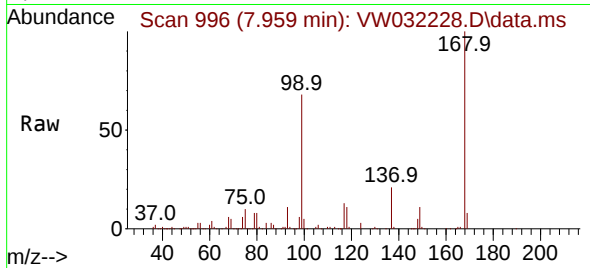




#31
Cyclohexane
Concen: 1.704 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032228.D
Acq: 22 Sep 2025 12:33

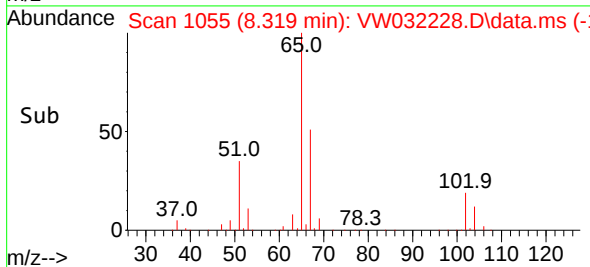
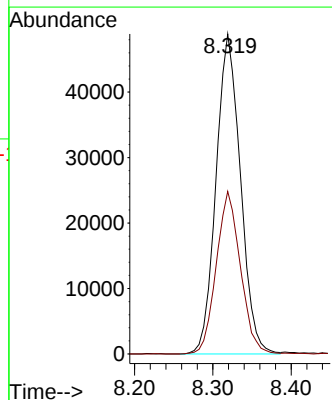
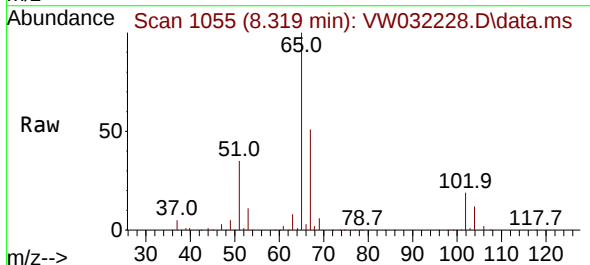
Instrument :
MSVOA_W
ClientSampleId :
20-DEAD-1

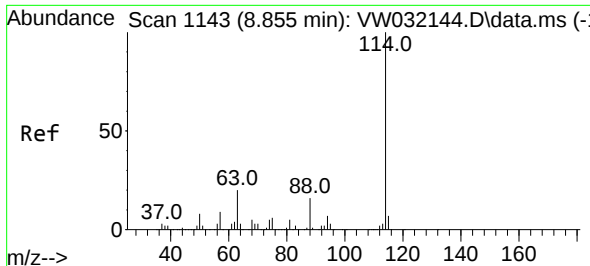
Tgt Ion: 56 Resp: 4347
Ion Ratio Lower Upper
56 100
69 153.1 27.7 41.5#
84 108.5 74.6 112.0



#33
1,2-Dichloroethane-d4
Concen: 50.901 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032228.D
Acq: 22 Sep 2025 12:33

Tgt Ion: 65 Resp: 105795
Ion Ratio Lower Upper
65 100
67 50.5 0.0 99.6

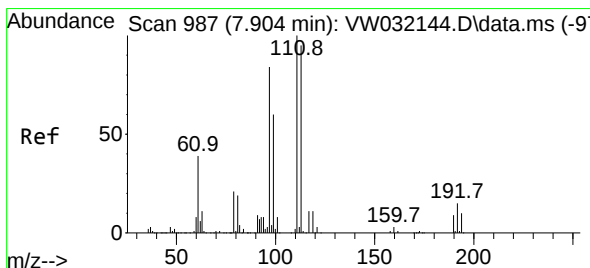
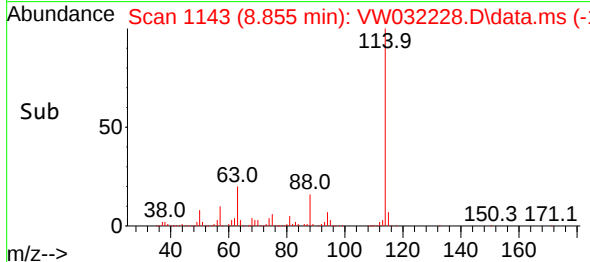
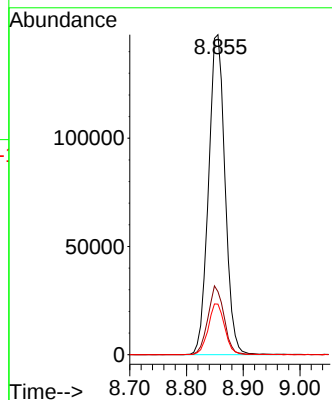
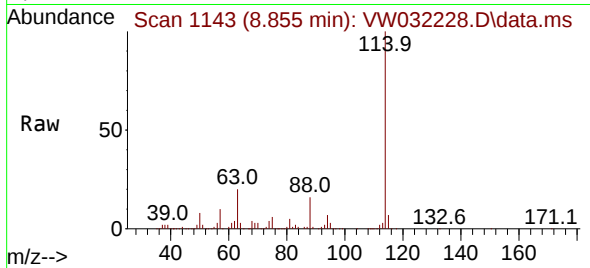




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032228.D
Acq: 22 Sep 2025 12:33

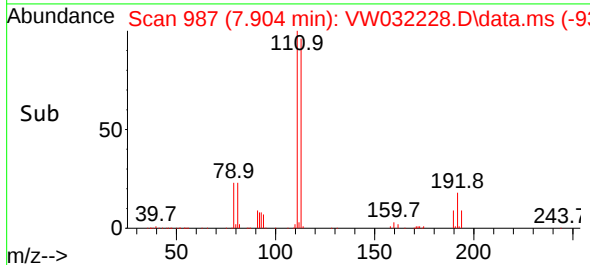
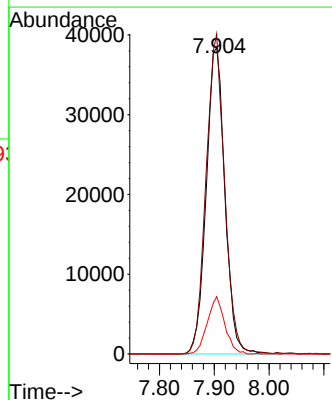
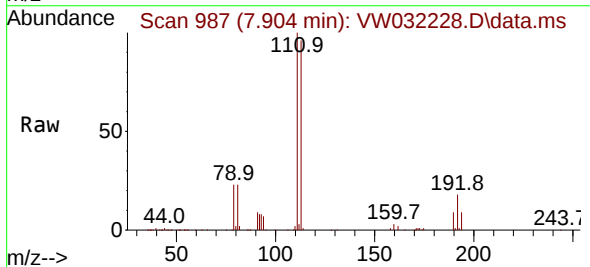
Instrument :
MSVOA_W
ClientSampleId :
20-DEAD-1

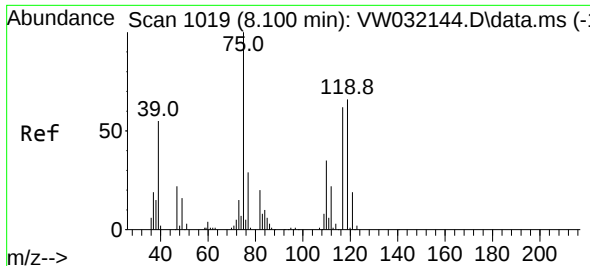
Tgt Ion:114 Resp: 298948
Ion Ratio Lower Upper
114 100
63 19.7 0.0 40.4
88 15.8 0.0 32.0



#35
Dibromofluoromethane
Concen: 43.197 ug/l
RT: 7.904 min Scan# 987
Delta R.T. -0.000 min
Lab File: VW032228.D
Acq: 22 Sep 2025 12:33

Tgt Ion:113 Resp: 90602
Ion Ratio Lower Upper
113 100
111 103.7 83.9 125.9
192 17.5 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.918 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.134 min

Lab File: VW032228.D

Acq: 22 Sep 2025 12:33

Instrument :

MSVOA_W

ClientSampleId :

20-DEAD-1

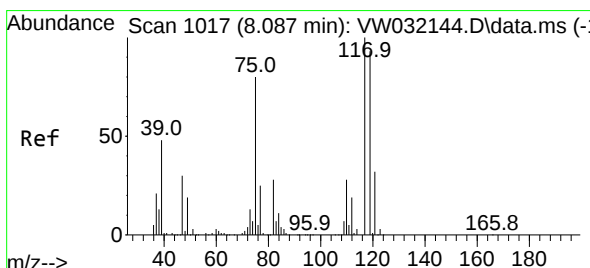
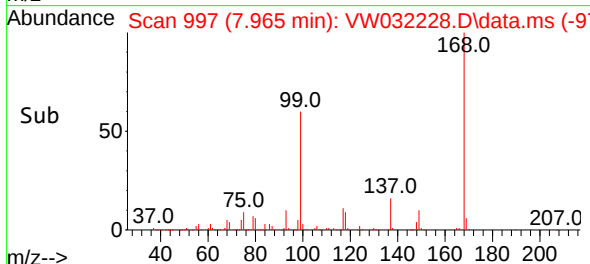
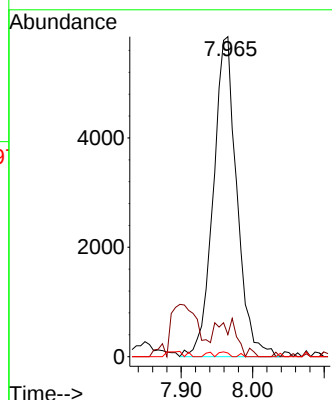
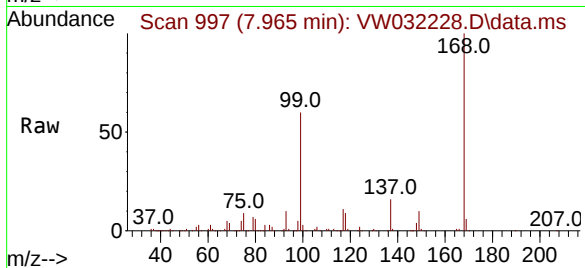
Tgt Ion: 75 Resp: 13373

Ion Ratio Lower Upper

75 100

110 10.2 17.5 52.5#

77 0.6 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 5.696 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.128 min

Lab File: VW032228.D

Acq: 22 Sep 2025 12:33

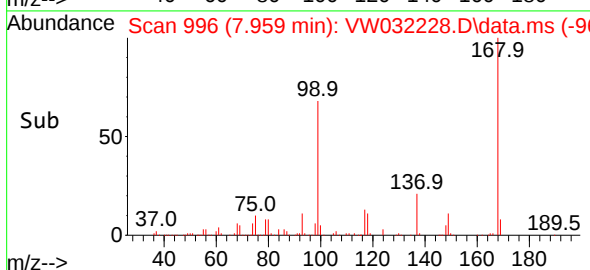
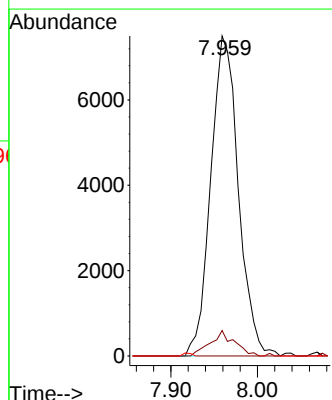
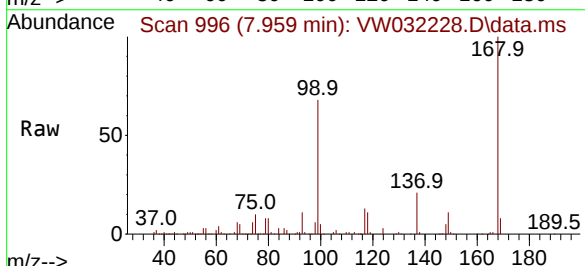
Tgt Ion: 117 Resp: 16606

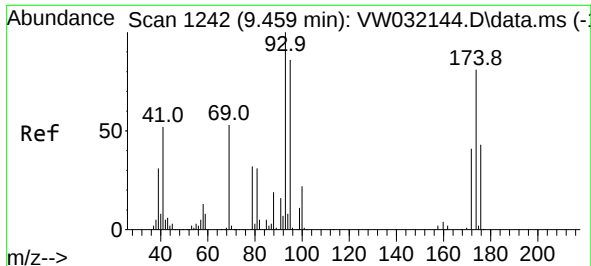
Ion Ratio Lower Upper

117 100

119 7.9 74.2 111.2#

121 0.0 25.6 38.4#





#49

1,4-Dioxane

Concen: 1.689 ug/l

RT: 9.434 min Scan# 11

Delta R.T. -0.025 min

Lab File: VW032228.D

Acq: 22 Sep 2025 12:33

Instrument :

MSVOA_W

ClientSampleId :

20-DEAD-1

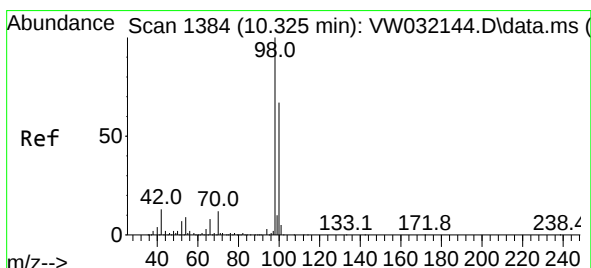
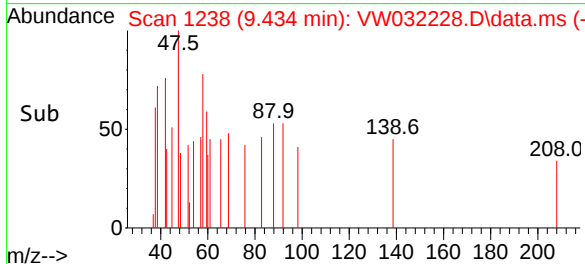
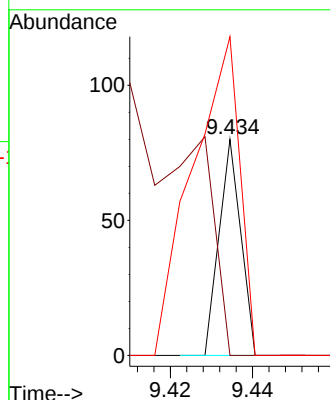
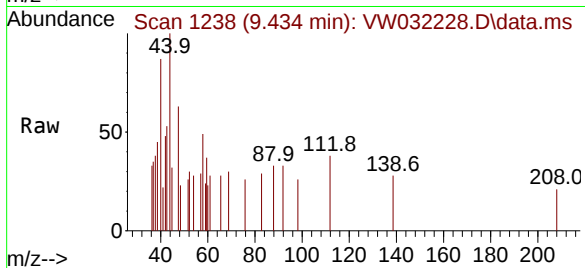
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 0.0 18.0 27.0#

58 324.1 55.4 83.0#



#50

Toluene-d8

Concen: 42.557 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032228.D

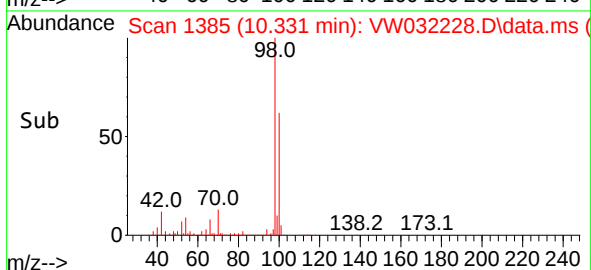
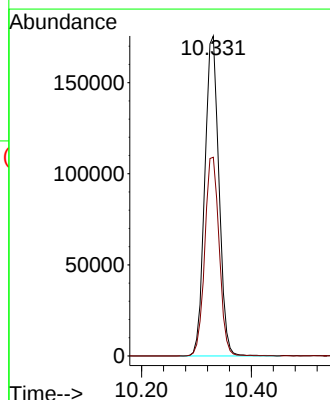
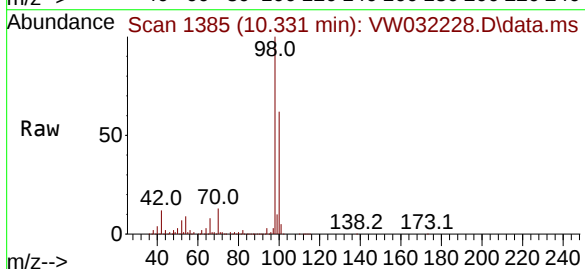
Acq: 22 Sep 2025 12:33

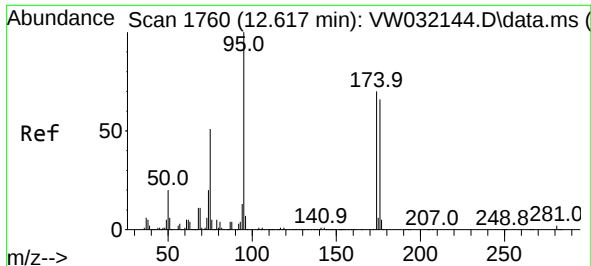
Tgt Ion: 98 Resp: 313344

Ion Ratio Lower Upper

98 100

100 63.4 51.4 77.2

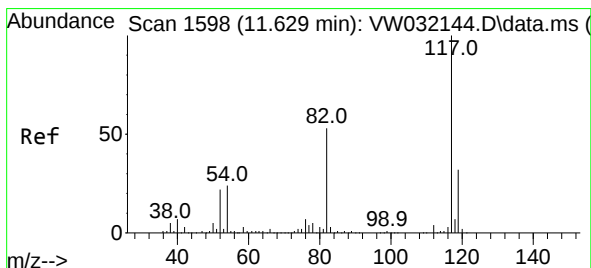
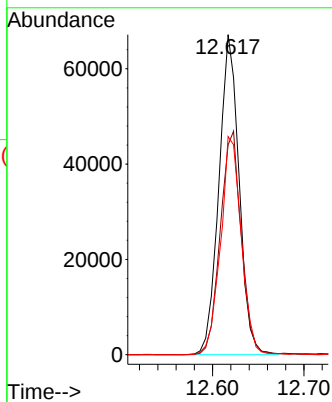
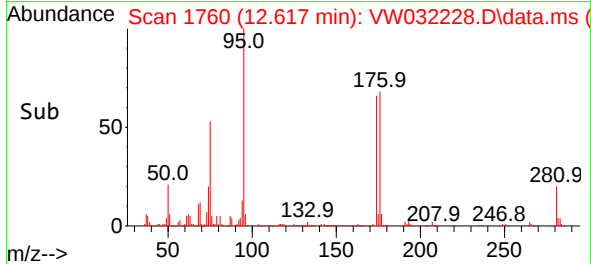
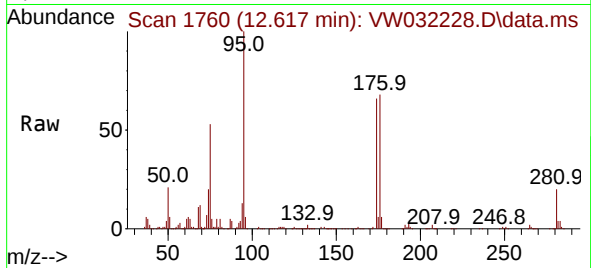




#62
4-Bromofluorobenzene
Concen: 37.844 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032228.D
Acq: 22 Sep 2025 12:33

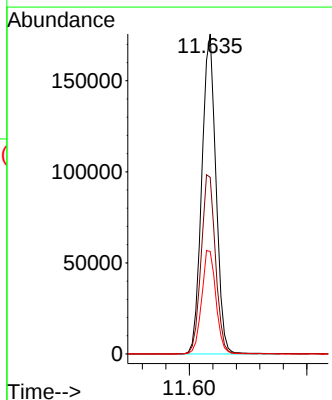
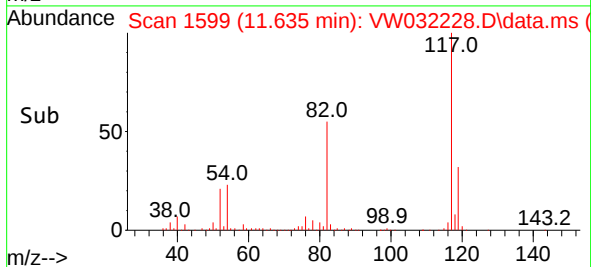
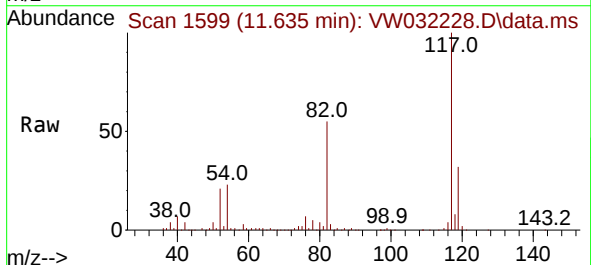
Instrument :
MSVOA_W
ClientSampleId :
20-DEAD-1

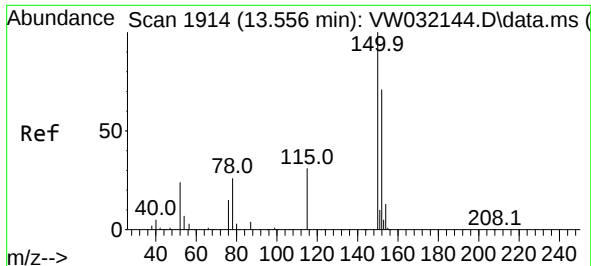
Tgt Ion: 95 Resp: 103036
Ion Ratio Lower Upper
95 100
174 73.2 0.0 145.6
176 70.2 0.0 140.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW032228.D
Acq: 22 Sep 2025 12:33

Tgt Ion: 117 Resp: 293437
Ion Ratio Lower Upper
117 100
82 55.1 42.7 64.1
119 32.1 25.2 37.8

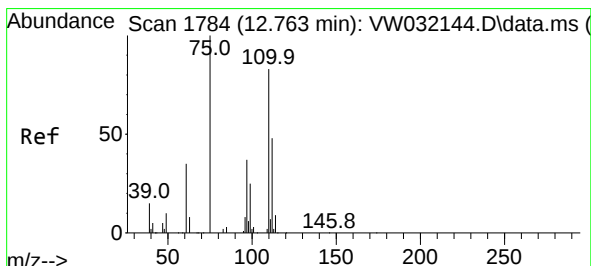
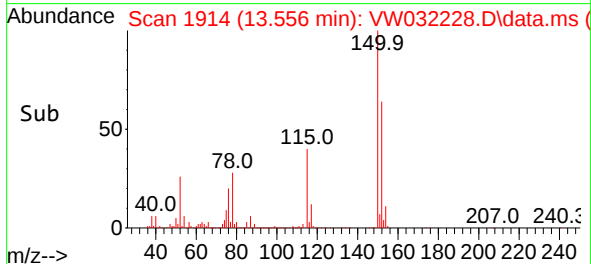
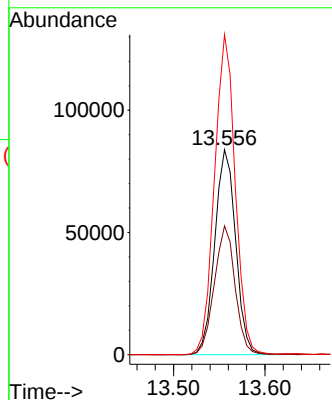
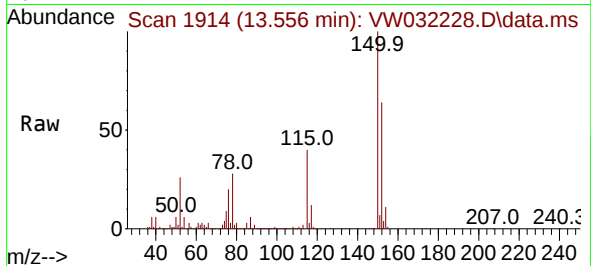




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. -0.000 min
 Lab File: VW032228.D
 Acq: 22 Sep 2025 12:33

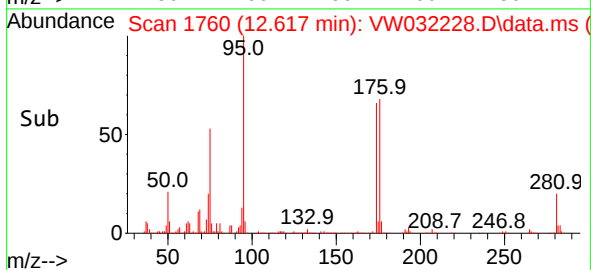
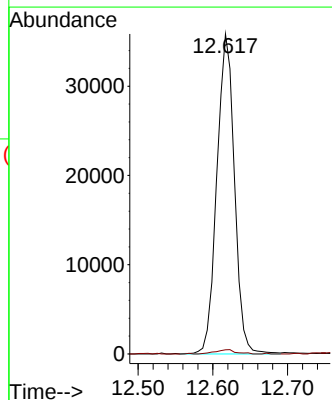
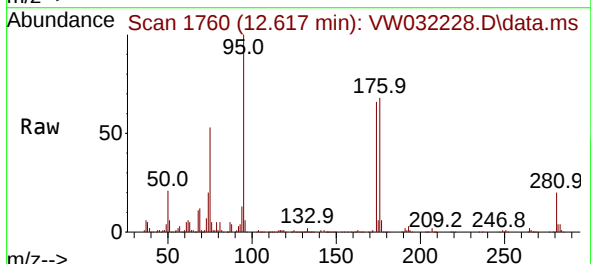
Instrument :
 MSVOA_W
 ClientSampleId :
 20-DEAD-1

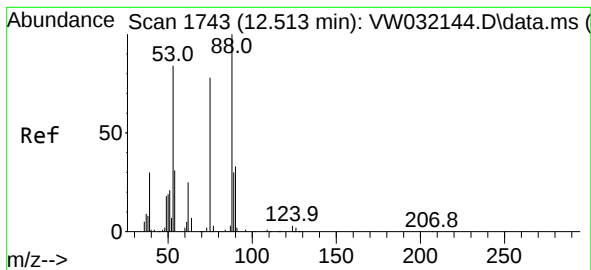
Tgt Ion:152 Resp: 133482
 Ion Ratio Lower Upper
 152 100
 115 62.3 31.8 95.4
 150 154.7 0.0 343.0



#76
 1,2,3-Trichloropropane
 Concen: 35.194 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.146 min
 Lab File: VW032228.D
 Acq: 22 Sep 2025 12:33

Tgt Ion: 75 Resp: 58853
 Ion Ratio Lower Upper
 75 100
 77 1.6 141.7 425.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.758 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VW032228.D
 Acq: 22 Sep 2025 12:33

Instrument :
 MSVOA_W
 ClientSampleId :
 20-DEAD-1

Tgt Ion: 75 Resp: 58853
 Ion Ratio Lower Upper
 75 100
 53 0.4 91.0 136.6#
 89 0.0 39.4 59.2#

