

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081425\
 Data File : VW032098.D
 Acq On : 14 Aug 2025 16:55
 Operator : SY/MD
 Sample : Q2820-15
 Misc : 7.12g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 10P-S

Quant Time: Aug 18 03:55:18 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)

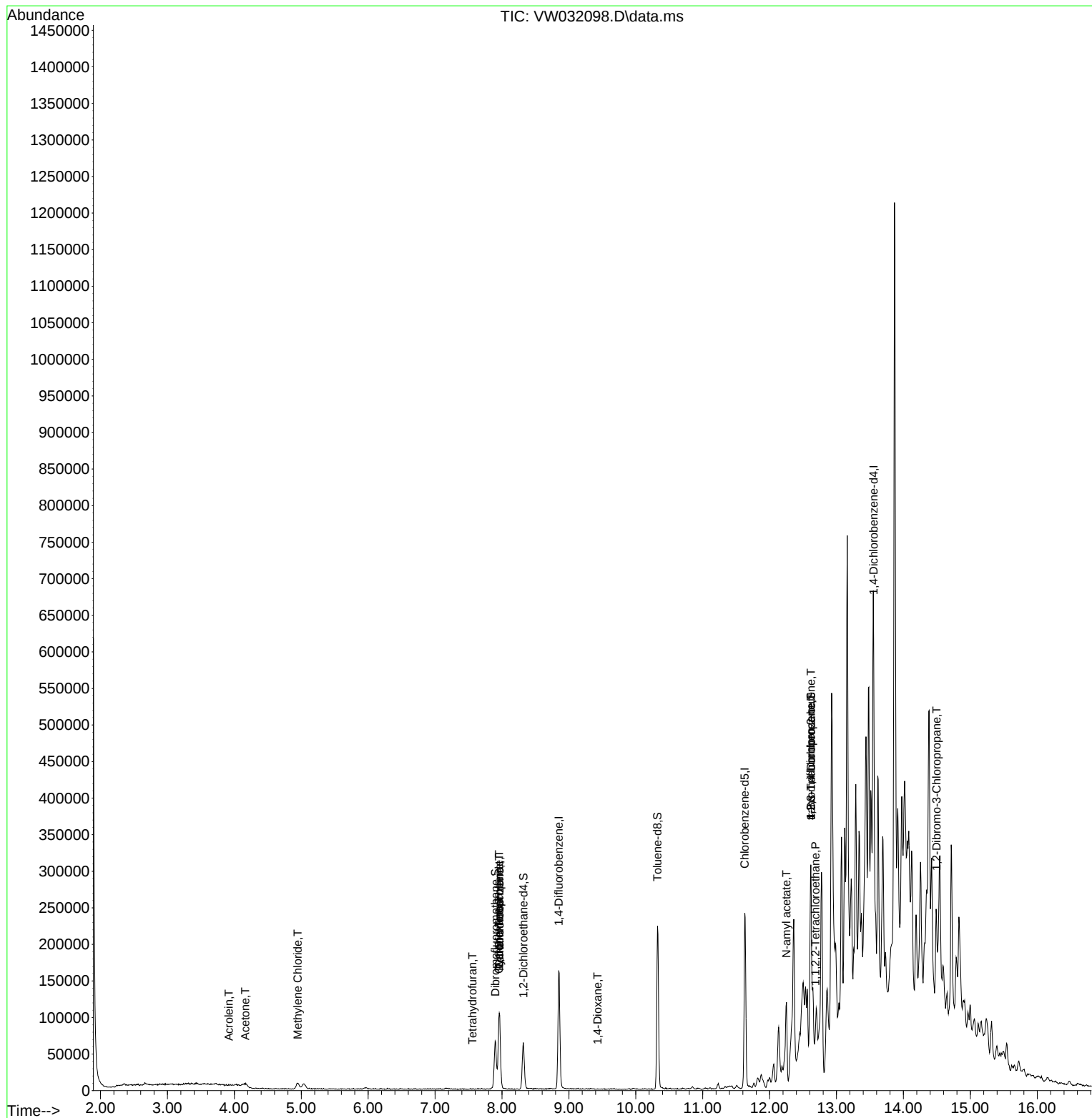
Internal Standards						
1) Pentafluorobenzene	7.965	168	68904	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	131758	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	126210	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	77275	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	50697	50.873	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 101.740%	
35) Dibromofluoromethane	7.898	113	46810	54.992	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 109.980%	
50) Toluene-d8	10.324	98	146293	46.466	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 92.940%	
62) 4-Bromofluorobenzene	12.617	95	64939	55.971	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 111.940%	
Target Compounds						
					Qvalue	
13) Acrolein	3.917	56	222	2.159	ug/l #	1
16) Acetone	4.161	43	3054	13.236	ug/l	95
20) Methylene Chloride	4.947	84	6349	5.952	ug/l #	88
29) Tetrahydrofuran	7.556	42	345	1.595	ug/l #	49
31) Cyclohexane	7.953	56	2544	1.791	ug/l #	33
36) 1,1-Dichloropropene	7.959	75	7004	5.837	ug/l #	51
38) Carbon Tetrachloride	7.959	117	8561	7.393	ug/l #	20
49) 1,4-Dioxane	9.428	88	55	7.314	ug/l #	1
74) N-amy1 acetate	12.251	43	23132	14.930	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.684	83	3255	2.539	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	36612	34.909	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	36612	90.374	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	14.494	75	283	1.242	ug/l #	41

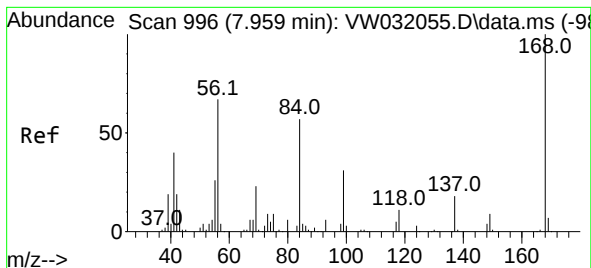
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 18 03:55:18 2025
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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: VW032098.D

Acq: 14 Aug 2025 16:55

Instrument :

MSVOA_W

ClientSampleId :

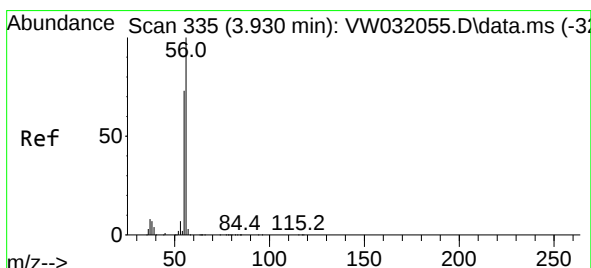
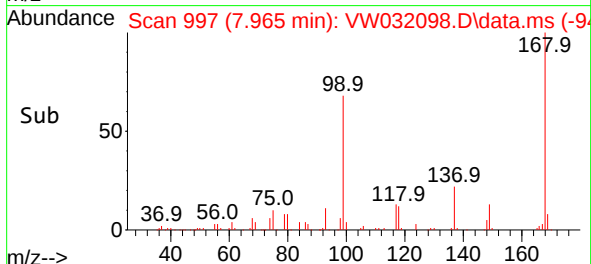
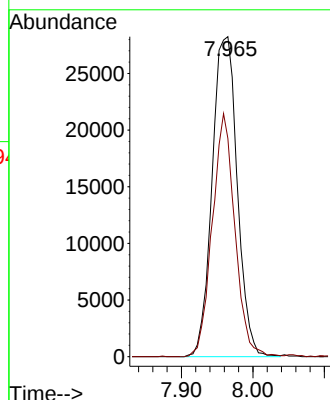
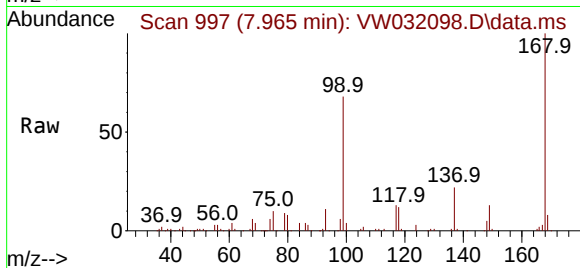
10P-S

Tgt Ion:168 Resp: 68904

Ion Ratio Lower Upper

168 100

99 68.2 56.0 84.0



#13

Acrolein

Concen: 2.159 ug/l

RT: 3.917 min Scan# 333

Delta R.T. -0.013 min

Lab File: VW032098.D

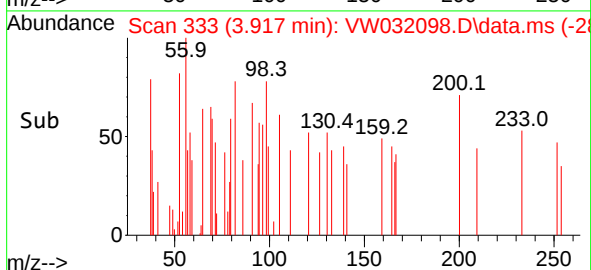
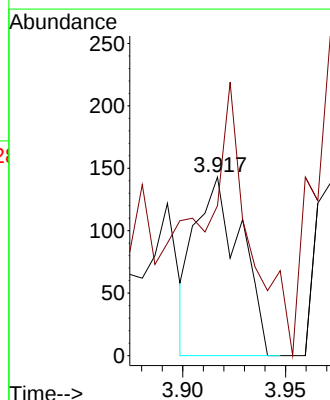
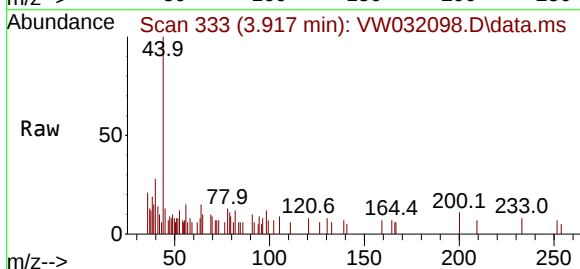
Acq: 14 Aug 2025 16:55

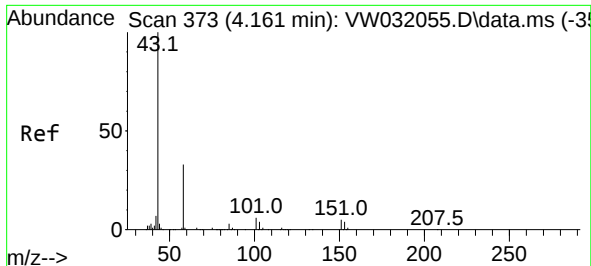
Tgt Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 157.7 55.4 83.2#

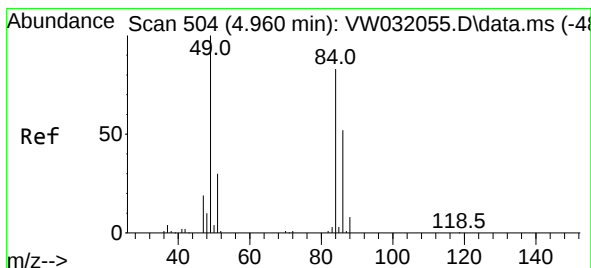
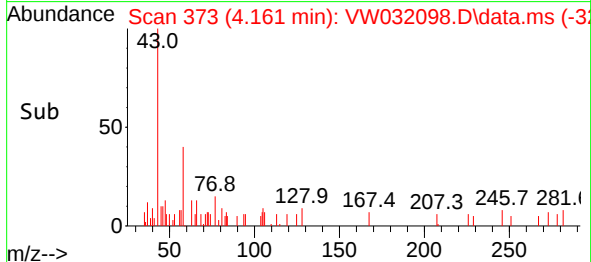
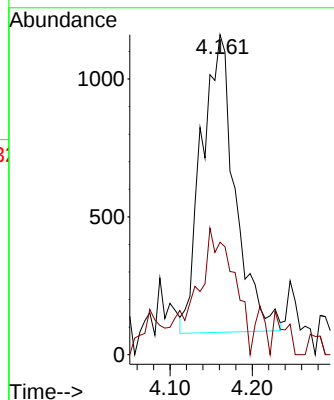
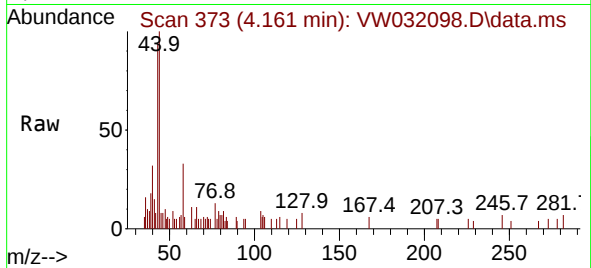




#16
Acetone
Concen: 13.236 ug/l
RT: 4.161 min Scan# 31
Delta R.T. -0.000 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

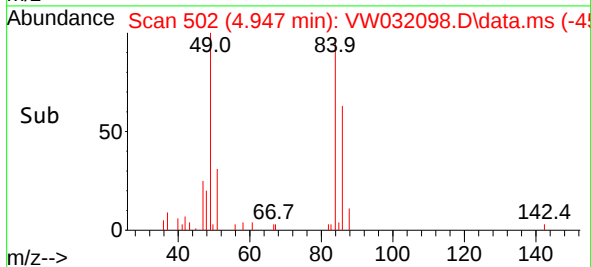
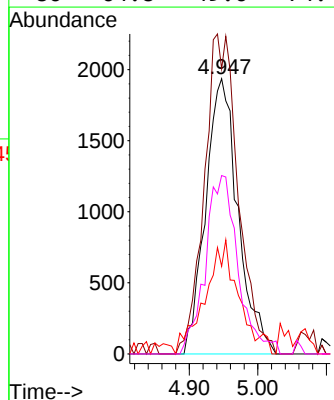
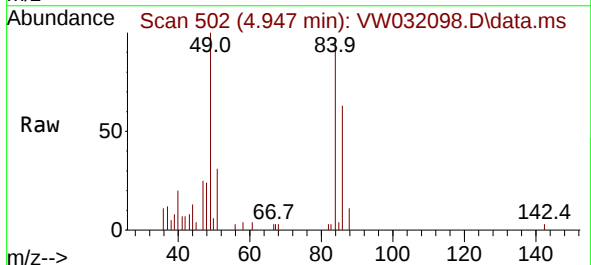
Instrument :
MSVOA_W
ClientSampleId :
10P-S

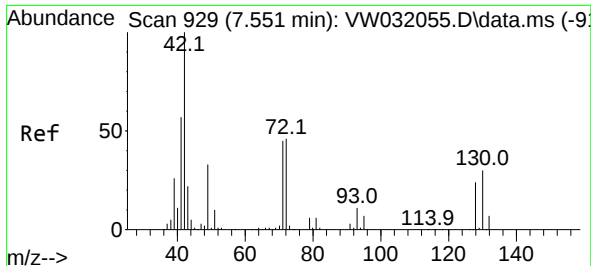
Tgt Ion: 43 Resp: 3054
Ion Ratio Lower Upper
43 100
58 30.2 26.6 39.8



#20
Methylene Chloride
Concen: 5.952 ug/l
RT: 4.947 min Scan# 502
Delta R.T. -0.013 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

Tgt Ion: 84 Resp: 6349
Ion Ratio Lower Upper
84 100
49 103.6 95.9 143.9
51 24.3 28.6 43.0#
86 64.8 49.6 74.4





#29

Tetrahydrofuran

Concen: 1.595 ug/l

RT: 7.556 min Scan# 91

Delta R.T. 0.006 min

Lab File: VW032098.D

Acq: 14 Aug 2025 16:55

Instrument :

MSVOA_W

ClientSampleId :

10P-S

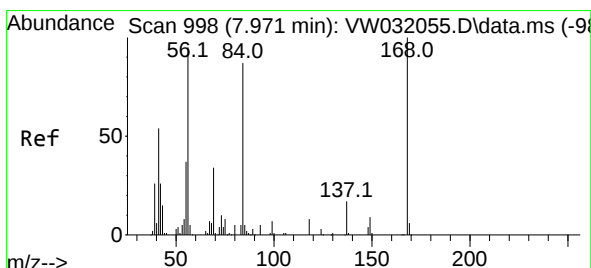
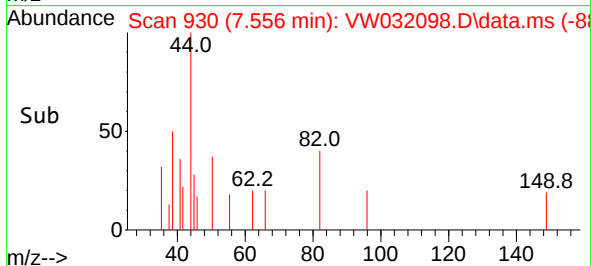
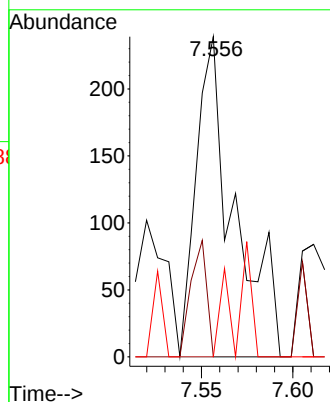
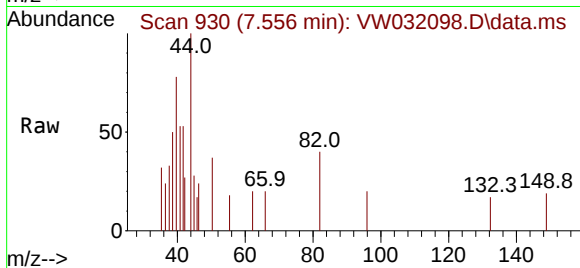
Tgt Ion: 42 Resp: 345

Ion Ratio Lower Upper

42 100

72 15.4 36.6 55.0#

71 7.0 34.7 52.1#



#31

Cyclohexane

Concen: 1.791 ug/l

RT: 7.953 min Scan# 995

Delta R.T. -0.019 min

Lab File: VW032098.D

Acq: 14 Aug 2025 16:55

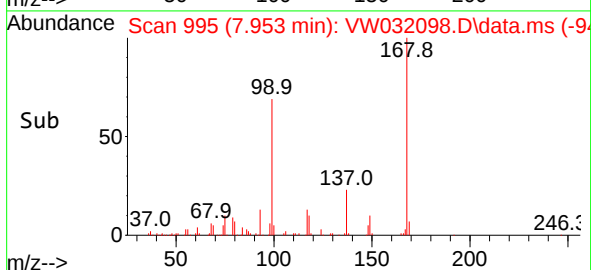
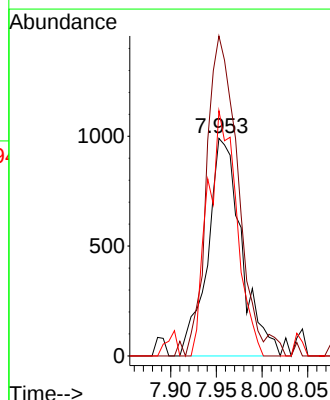
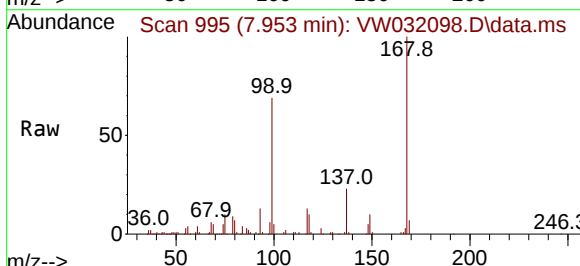
Tgt Ion: 56 Resp: 2544

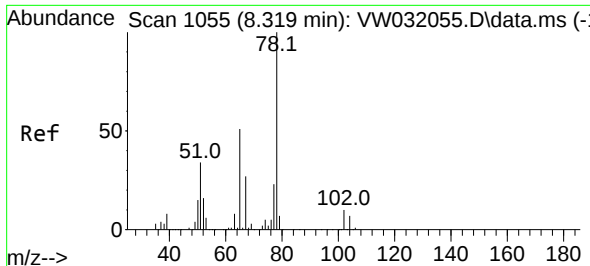
Ion Ratio Lower Upper

56 100

69 141.1 28.6 42.8#

84 112.7 73.0 109.4#





#33

1,2-Dichloroethane-d4

Concen: 50.873 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032098.D

Acq: 14 Aug 2025 16:55

Instrument :

MSVOA_W

ClientSampleId :

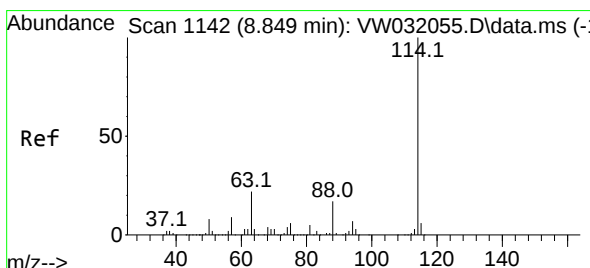
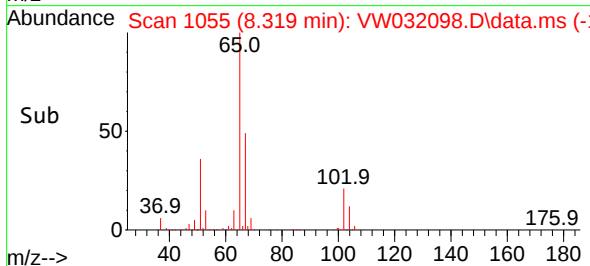
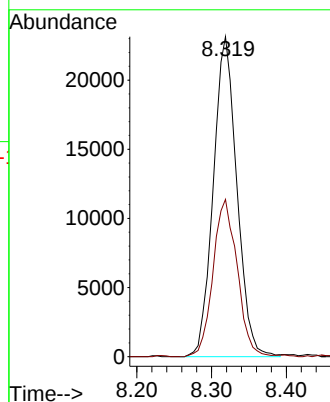
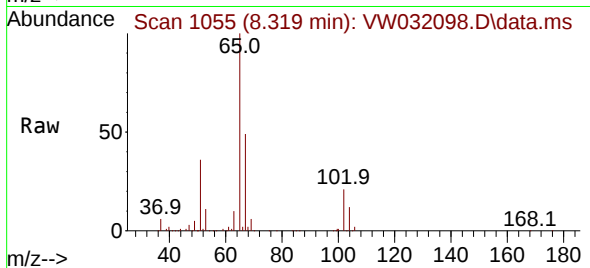
10P-S

Tgt Ion: 65 Resp: 50697

Ion Ratio Lower Upper

65 100

67 50.4 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VW032098.D

Acq: 14 Aug 2025 16:55

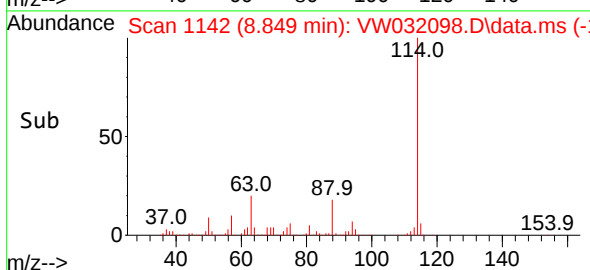
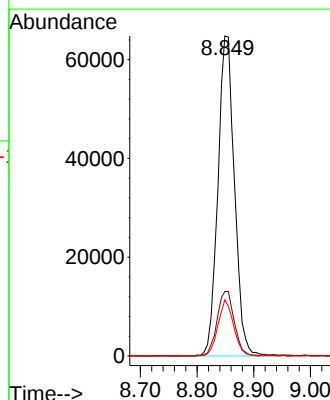
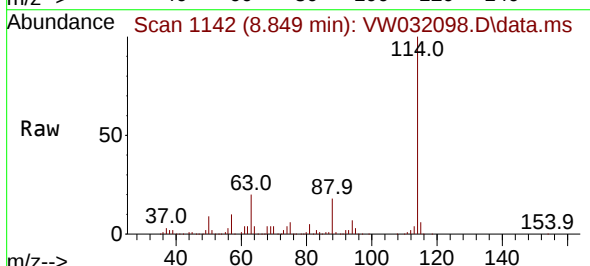
Tgt Ion: 114 Resp: 131758

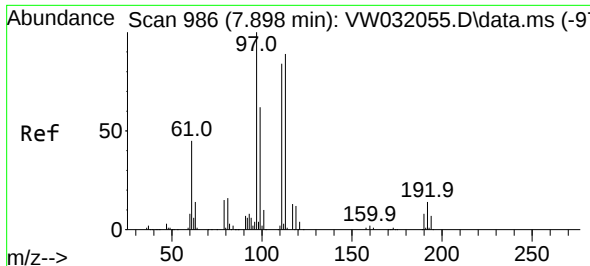
Ion Ratio Lower Upper

114 100

63 20.1 0.0 43.0

88 17.5 0.0 33.8

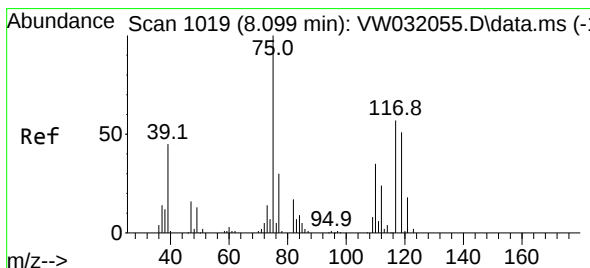
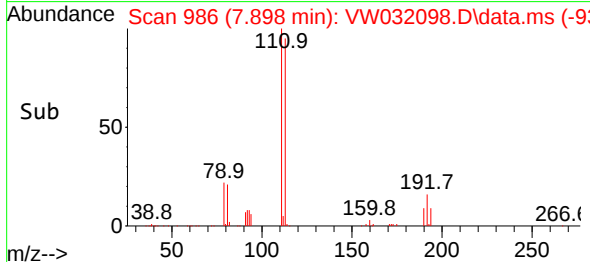
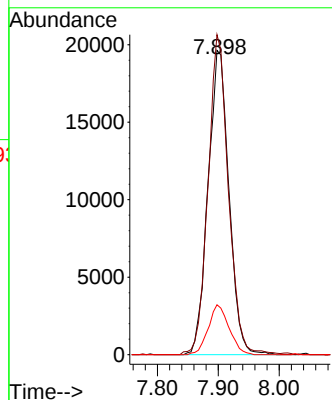
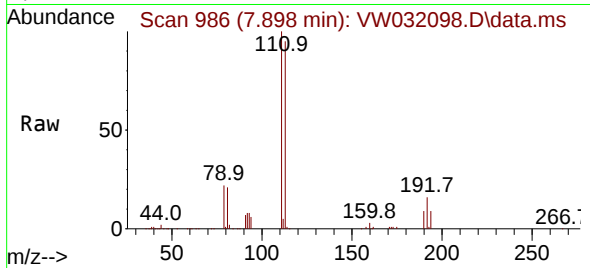




#35
Dibromofluoromethane
Concen: 54.992 ug/l
RT: 7.898 min Scan# 910
Delta R.T. -0.000 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

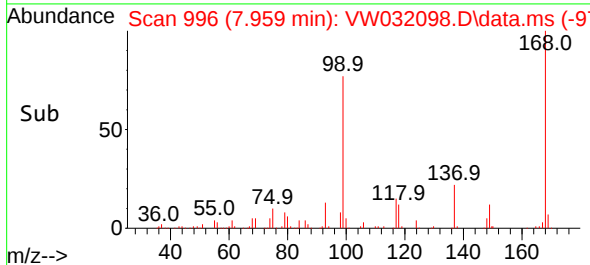
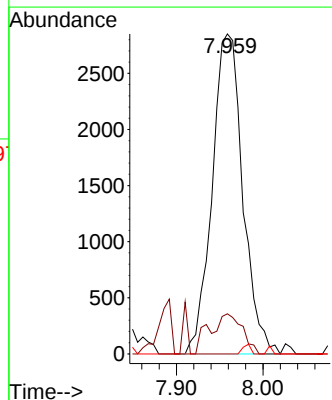
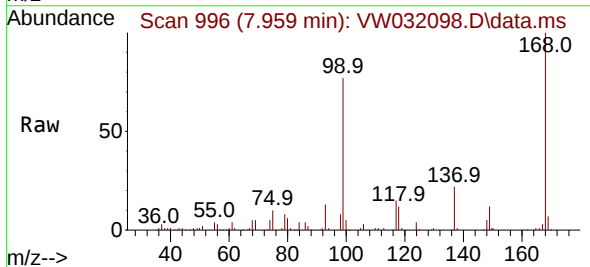
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10P-S

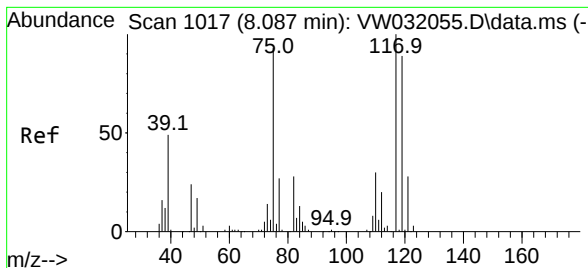
Tgt Ion:113 Resp: 46810
Ion Ratio Lower Upper
113 100
111 102.3 80.1 120.1
192 16.3 13.1 19.7



#36
1,1-Dichloropropene
Concen: 5.837 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.141 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

Tgt Ion: 75 Resp: 7004
Ion Ratio Lower Upper
75 100
110 9.9 17.4 52.2#
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 7.393 ug/l

RT: 7.959 min Scan# 91

Delta R.T. -0.128 min

Lab File: VW032098.D

Acq: 14 Aug 2025 16:55

Instrument :

MSVOA_W

ClientSampleId :

10P-S

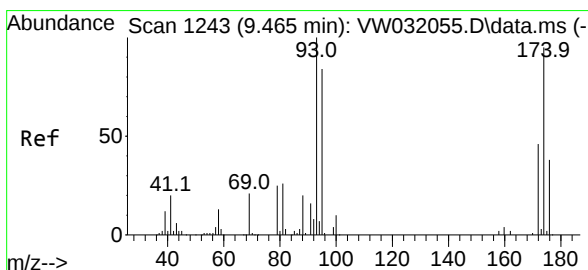
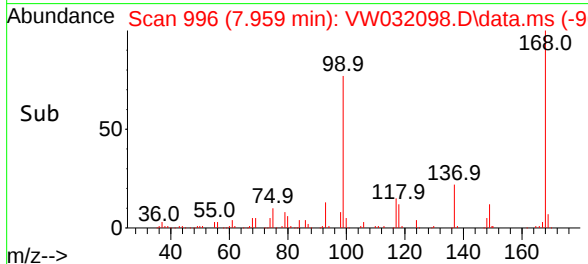
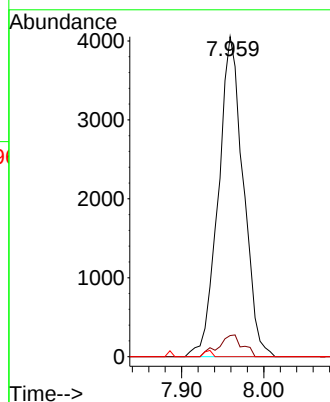
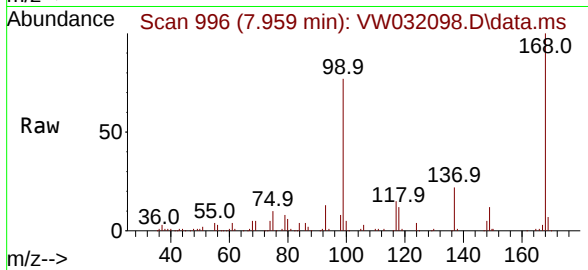
Tgt Ion:117 Resp: 8561

Ion Ratio Lower Upper

117 100

119 6.6 71.4 107.2#

121 0.0 22.3 33.5#



#49

1,4-Dioxane

Concen: 7.314 ug/l

RT: 9.428 min Scan# 1237

Delta R.T. -0.037 min

Lab File: VW032098.D

Acq: 14 Aug 2025 16:55

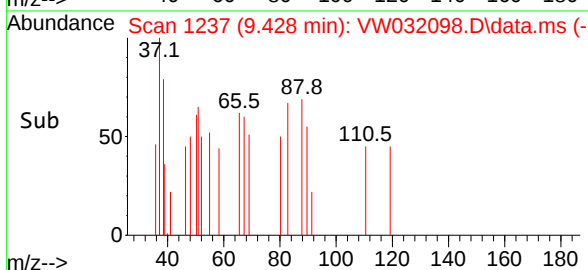
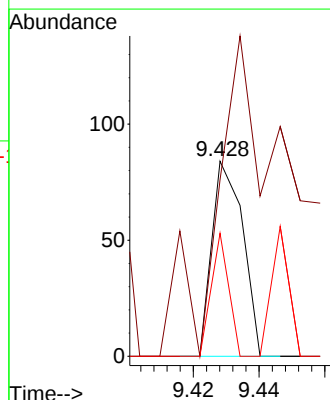
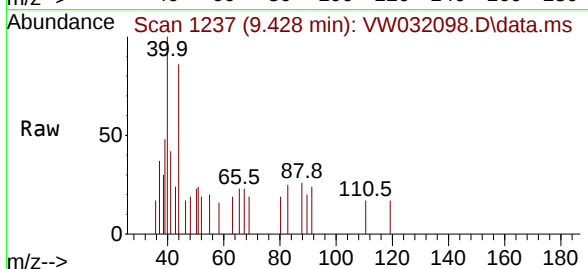
Tgt Ion: 88 Resp: 55

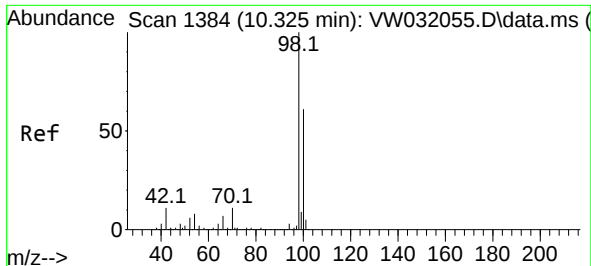
Ion Ratio Lower Upper

88 100

43 378.2 20.6 30.8#

58 34.5 60.4 90.6#

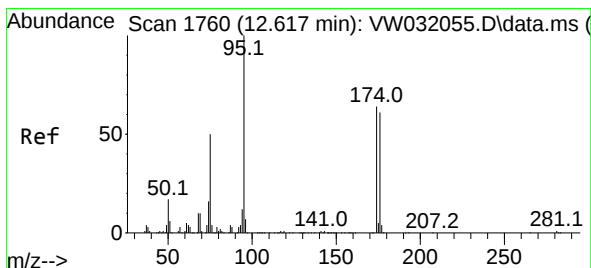
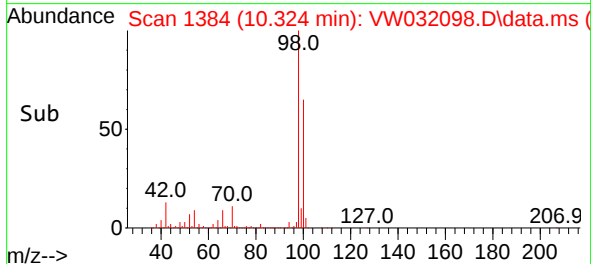
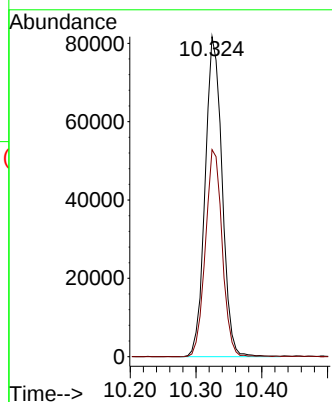
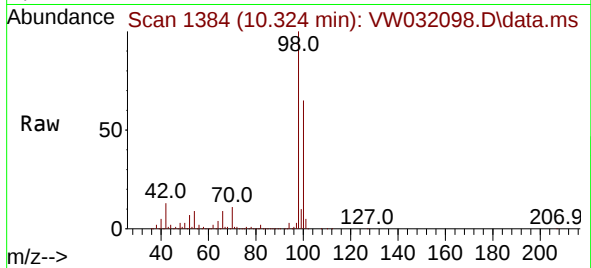




#50
Toluene-d8
Concen: 46.466 ug/l
RT: 10.324 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

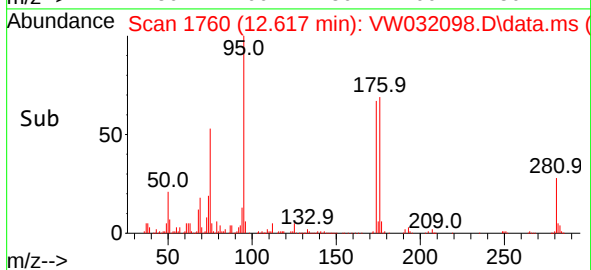
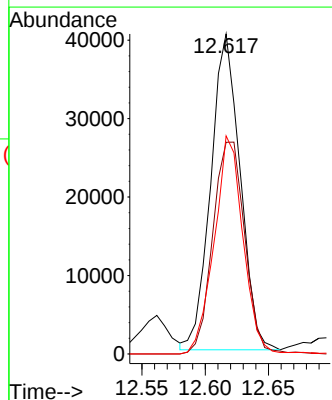
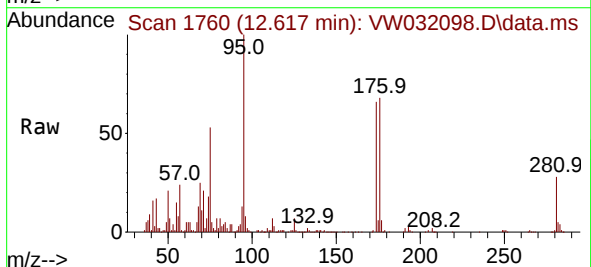
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10P-S

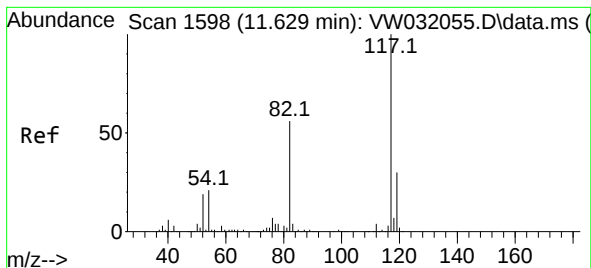
Tgt Ion: 98 Resp: 146293
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 55.971 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

Tgt Ion: 95 Resp: 64939
Ion Ratio Lower Upper
95 100
174 73.2 0.0 129.0
176 68.0 0.0 124.6

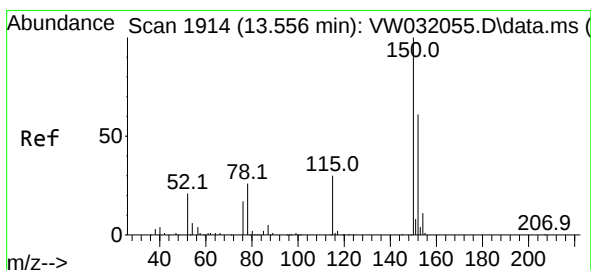
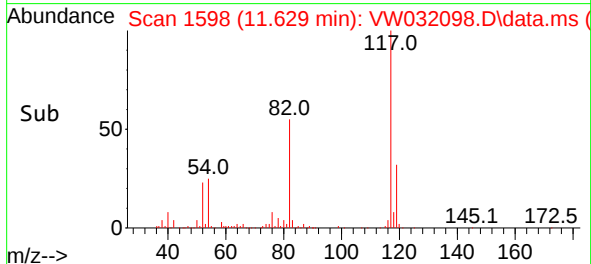
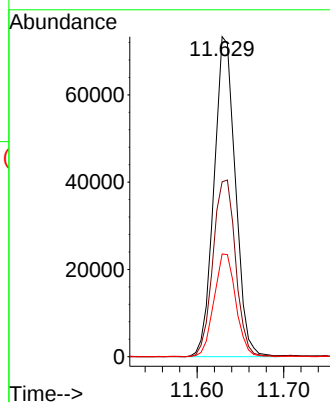
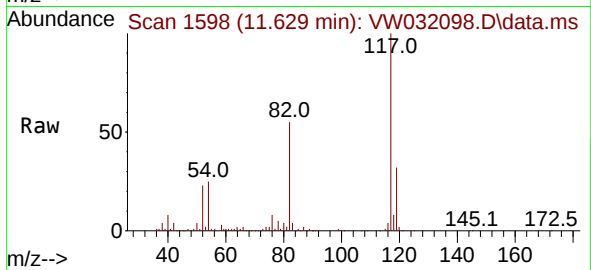




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

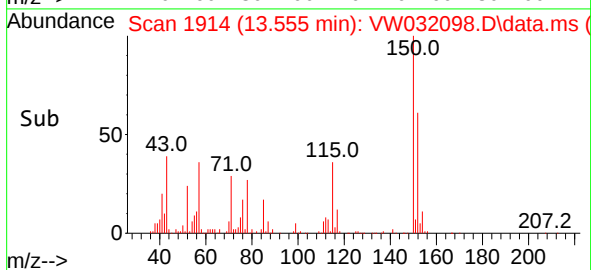
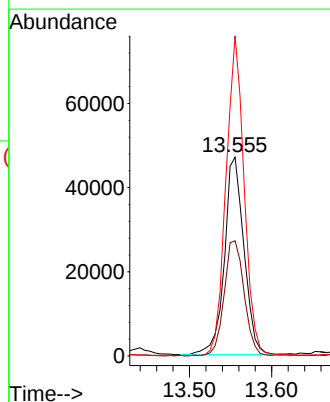
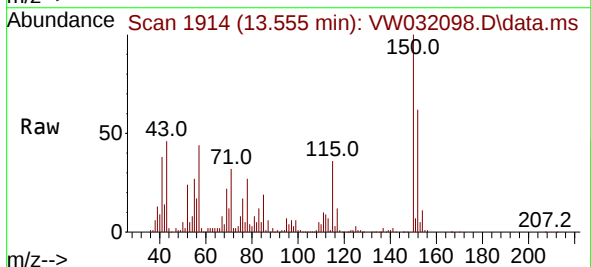
Instrument :
MSVOA_W
ClientSampleId :
10P-S

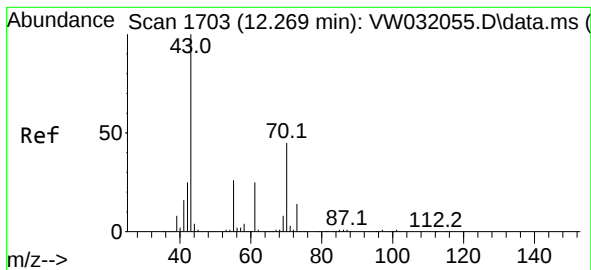
Tgt Ion:117 Resp: 126210
Ion Ratio Lower Upper
117 100
82 54.5 45.0 67.4
119 32.1 24.2 36.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.555 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

Tgt Ion:152 Resp: 77275
Ion Ratio Lower Upper
152 100
115 59.3 32.6 97.8
150 151.9 0.0 359.4





#74

N-amy1 acetate

Concen: 14.930 ug/l

RT: 12.251 min Scan# 1

Delta R.T. -0.019 min

Lab File: VW032098.D

Acq: 14 Aug 2025 16:55

Instrument :

MSVOA_W

ClientSampleId :

10P-S

Tgt Ion: 43 Resp: 23132

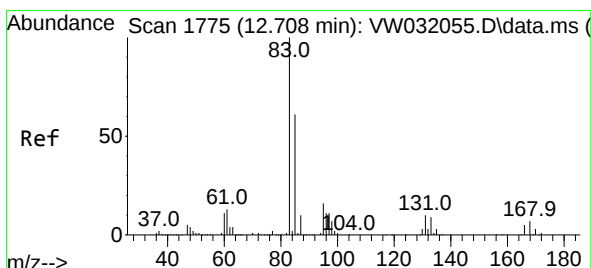
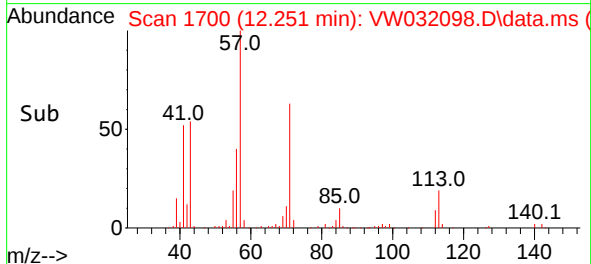
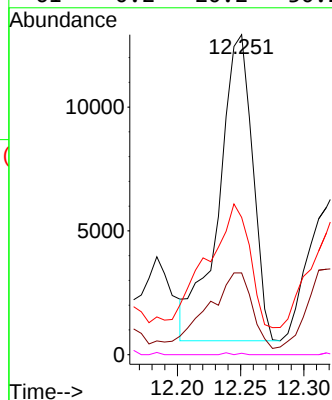
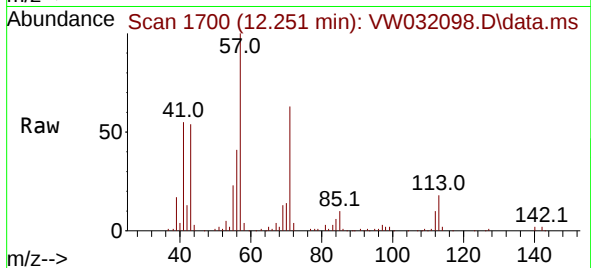
Ion Ratio Lower Upper

43 100

70 32.0 37.0 55.4#

55 50.6 21.1 31.7#

61 0.2 20.2 30.2#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.539 ug/l

RT: 12.684 min Scan# 1771

Delta R.T. -0.025 min

Lab File: VW032098.D

Acq: 14 Aug 2025 16:55

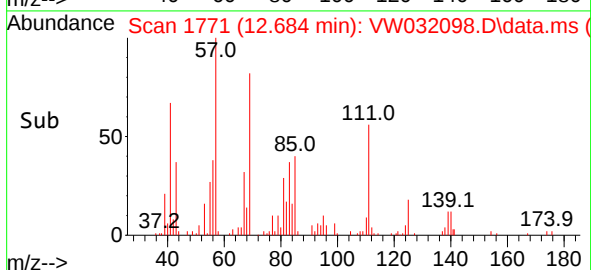
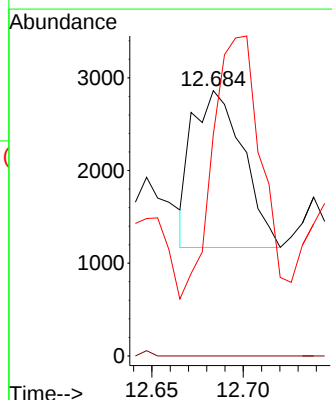
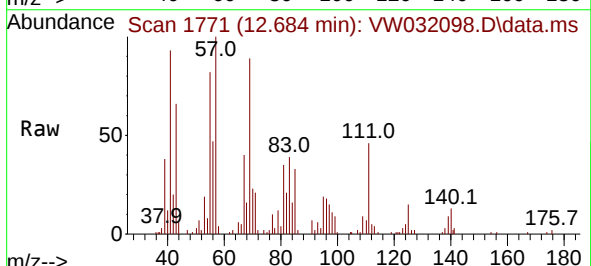
Tgt Ion: 83 Resp: 3255

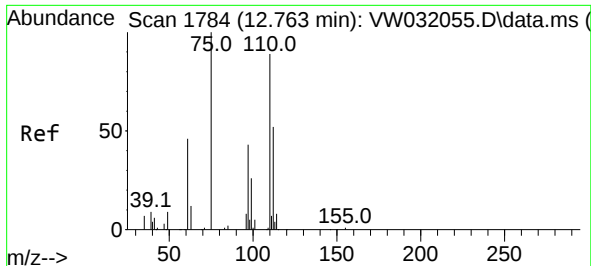
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

85 158.3 32.2 96.6#

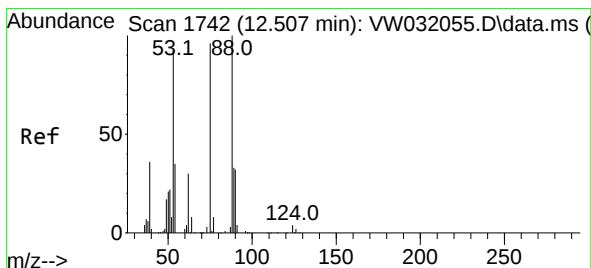
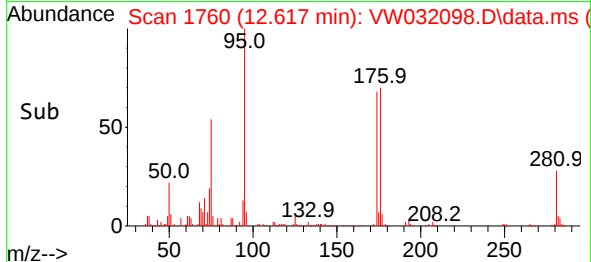
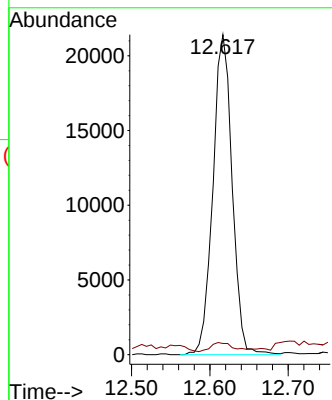
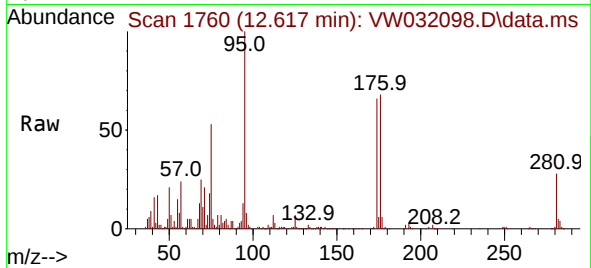




#76
1,2,3-Trichloropropane
Concen: 34.909 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.147 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

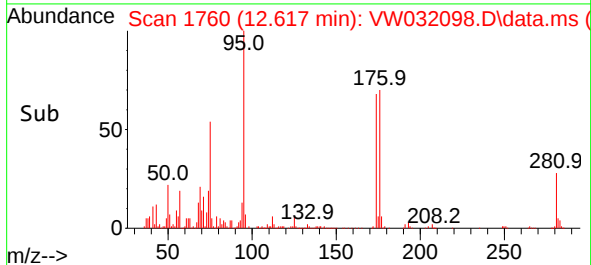
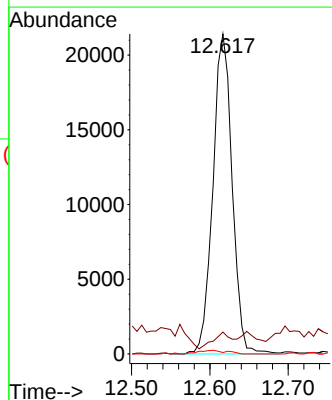
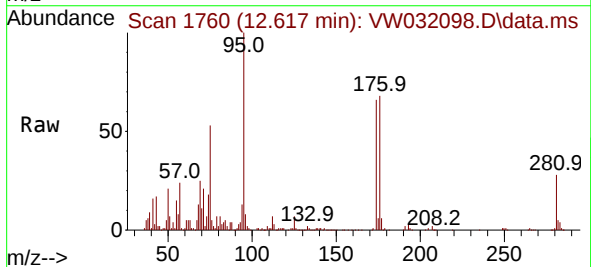
Instrument :
MSVOA_W
ClientSampleId :
10P-S

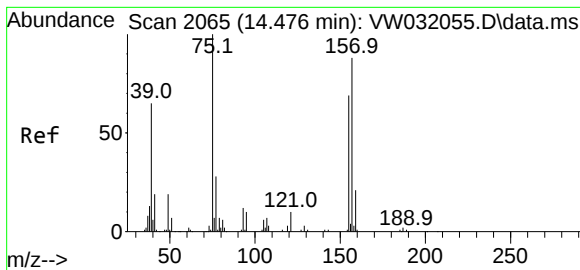
Tgt Ion: 75 Resp: 36612
Ion Ratio Lower Upper
75 100
77 3.2 123.5 370.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 90.374 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.109 min
Lab File: VW032098.D
Acq: 14 Aug 2025 16:55

Tgt Ion: 75 Resp: 36612
Ion Ratio Lower Upper
75 100
53 4.5 81.0 121.6#
89 1.2 37.3 55.9#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.242 ug/l
 RT: 14.494 min Scan# 2068
 Delta R.T. 0.018 min
 Lab File: VW032098.D
 Acq: 14 Aug 2025 16:55

Instrument :
 MSVOA_W
 ClientSampleId :
 10P-S

Tgt Ion:	75	Resp:	283
Ion	Ratio	Lower	Upper
75	100		
155	65.7	35.2	105.6
157	0.0	47.5	142.6#

