

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101024\
 Data File : VU061098.D
 Acq On : 10 Oct 2024 18:49
 Operator : MD/SY
 Sample : P4380-14
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 11 06:51:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 11 06:46:55 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.238	114	169342	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	156252	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	77018	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.586	65	39581	3.269	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.400%
7) Chloroethane-d5	1.901	69	34487	3.806	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	76.200%
11) 1,1-Dichloroethene-d2	2.550	65	18267	3.420	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.400%
20) 2-Butanone-d5	4.695	46	117963	40.676	ug/L	0.07
Spiked Amount	50.000	Range	40 - 130	Recovery	=	81.360%
24) Chloroform-d	5.049	84	86872	4.071	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.400%
26) 1,2-Dichloroethane-d4	5.695	65	47055	4.160	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.200%
32) Benzene-d6	5.711	84	169984	4.126	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.600%
36) 1,2-Dichloropropane-d6	6.679	67	58727	4.340	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.800%
41) Toluene-d8	7.888	98	155595	4.040	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
43) trans-1,3-Dichloroprop...	8.174	79	22067	3.814	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.200%
46) 2-Hexanone-d5	8.634	63	104471	43.629	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.260%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	42544	4.288	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.800%
66) 1,2-Dichlorobenzene-d4	12.183	152	55094	4.474	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.505	50	1529	0.128	ug/L	87
8) Chloroethane	2.039	64	6015	0.829	ug/L #	52
13) Acetone	2.740	43	36025	19.315	ug/L	66
14) Carbon disulfide	2.772	76	8356	0.251	ug/L #	90
15) Methyl Acetate	3.177	43	1207	0.266	ug/L #	59
19) 1,1-Dichloroethane	3.849	63	13519	0.648	ug/L	97
22) cis-1,2-Dichloroethene	4.656	96	9785	0.820	ug/L	96
27) 1,2-Dichloroethane	5.759	62	2233	0.162	ug/L #	72
30) Cyclohexane	5.361	56	2495	0.124	ug/L	91
33) Benzene	5.759	78	246033	5.341	ug/L	100
34) Trichloroethene	6.534	95	4626	0.370	ug/L	93
35) Methylcyclohexane	6.750	83	3440	0.171	ug/L #	84
37) 1,2-Dichloropropane	6.682	63	6532	0.538	ug/L #	93
42) Toluene	7.959	91	86720	1.767	ug/L	99
47) Tetrachloroethene	8.544	164	21362	2.629	ug/L	96
49) Dibromochloromethane	8.544	129	21981	2.348	ug/L #	9
51) Chlorobenzene	9.441	112	8829	0.295	ug/L	94
52) Ethylbenzene	9.563	91	26929	0.484	ug/L	99
53) m,p-Xylene	9.685	106	34531	1.702	ug/L	92

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QLast Update : Fri Oct 11 06:46:55 2024
Response via : Initial Calibration

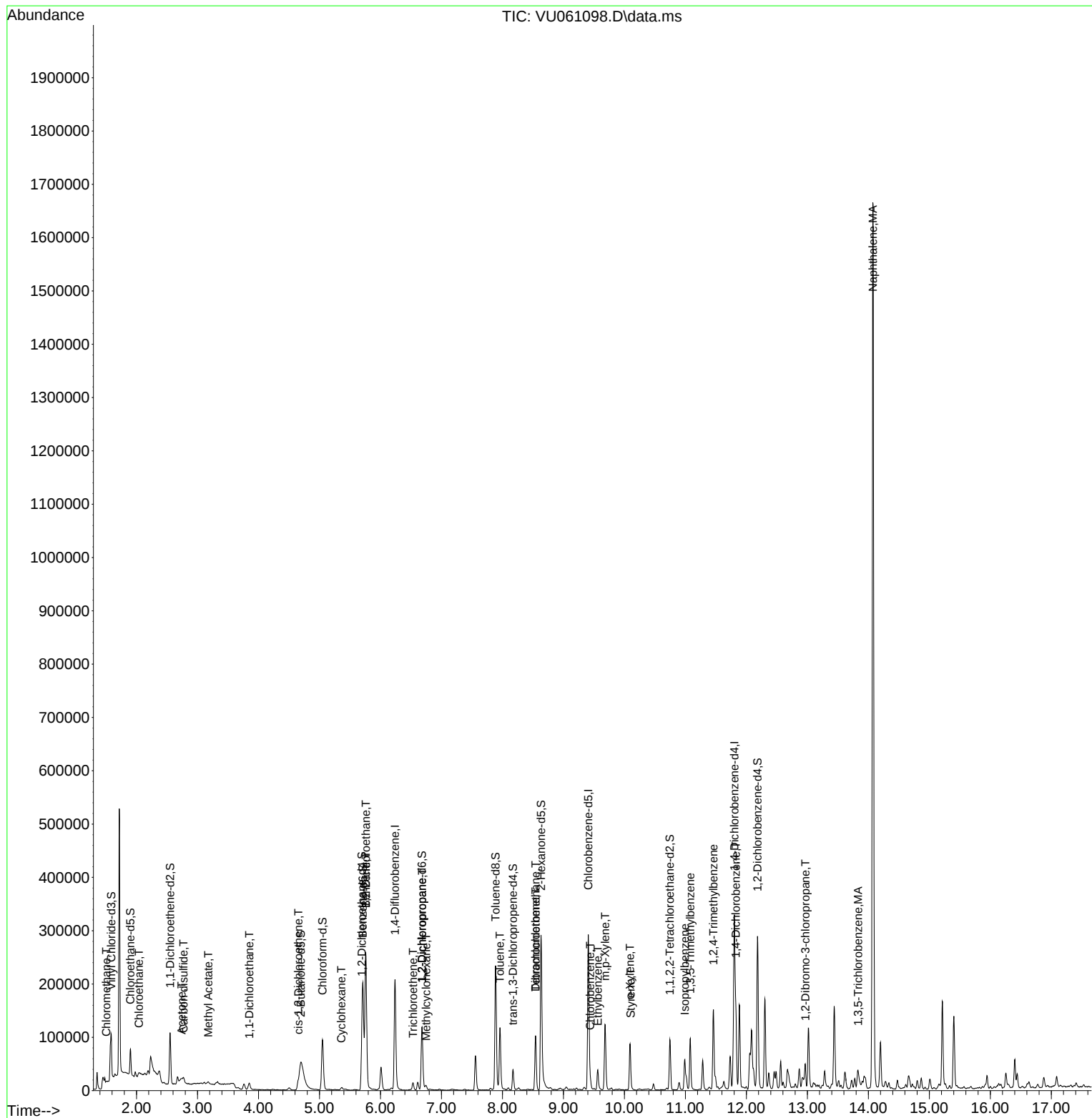
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.094	106	22872	1.146	ug/L	97
55) Styrene	10.103	104	2281	0.071	ug/L #	1
60) Isopropylbenzene	10.991	105	46664	0.906	ug/L	93
62) 1,3,5-Trimethylbenzene	11.081	105	50644	1.116	ug/L	99
63) 1,2,4-Trimethylbenzene	11.460	105	82721	1.805	ug/L	98
65) 1,4-Dichlorobenzene	11.827	146	50899	2.332	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.968	75	108	0.065	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.833	180	2433	0.157	ug/L #	80
71) Naphthalene	14.077	128	1255400	64.507	ug/L	99

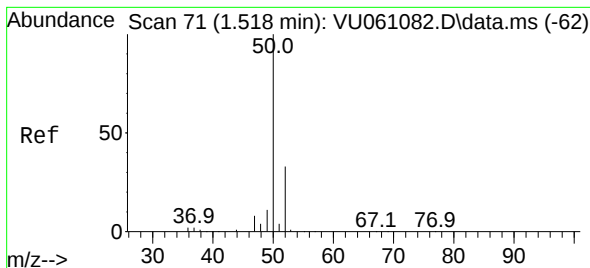
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.128 ug/L

RT: 1.505 min Scan# 61

Delta R.T. -0.013 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

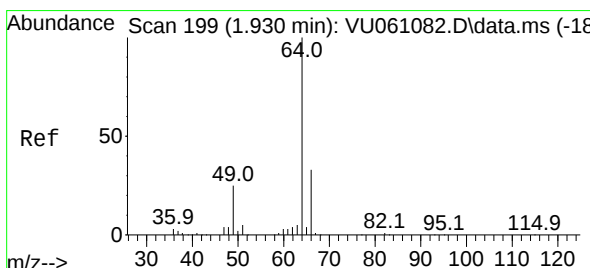
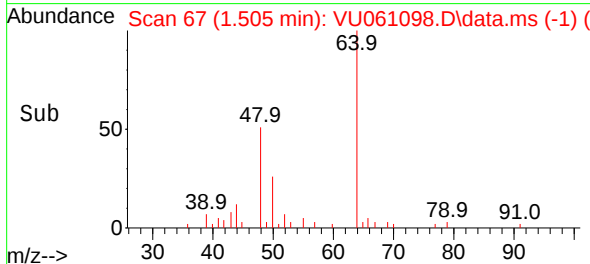
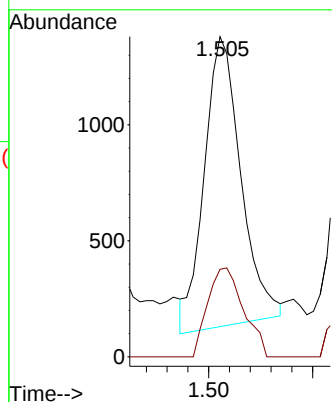
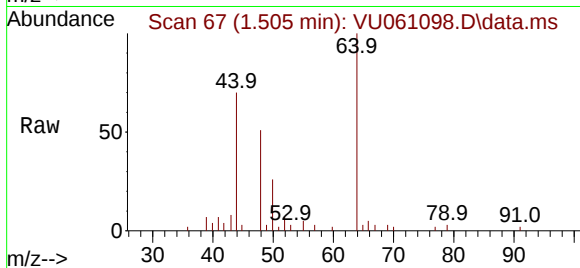
ClientSampleId :

Tgt Ion: 50 Resp: 1529

Ion Ratio Lower Upper

50 100

52 27.3 24.4 45.4



#8

Chloroethane

Concen: 0.829 ug/L

RT: 2.039 min Scan# 233

Delta R.T. 0.109 min

Lab File: VU061098.D

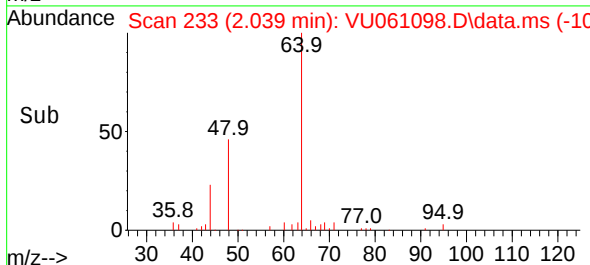
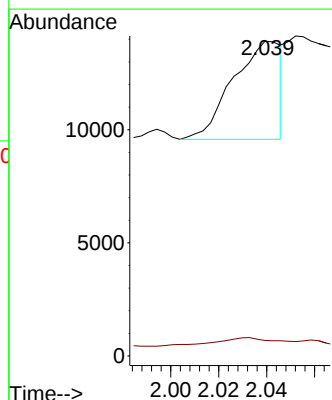
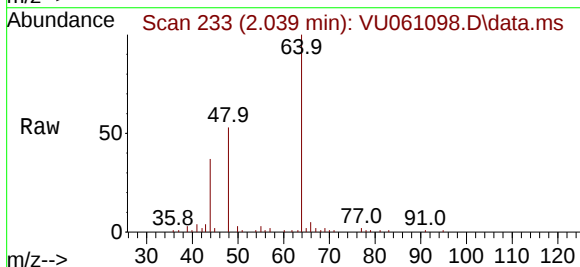
Acq: 10 Oct 2024 18:49

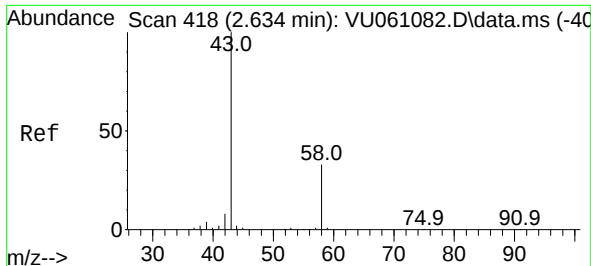
Tgt Ion: 64 Resp: 6015

Ion Ratio Lower Upper

64 100

66 5.0 22.3 41.3#





#13

Acetone

Concen: 19.315 ug/L

RT: 2.740 min Scan# 418

Delta R.T. 0.106 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

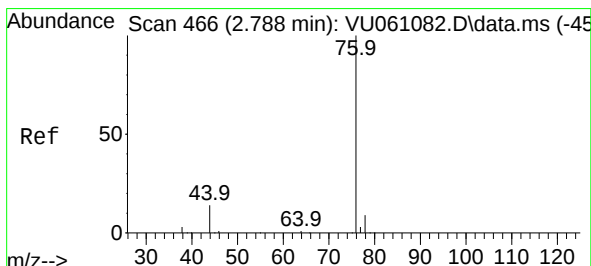
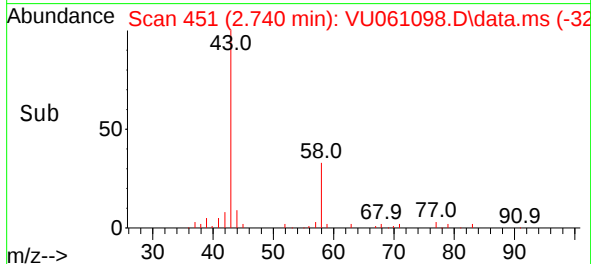
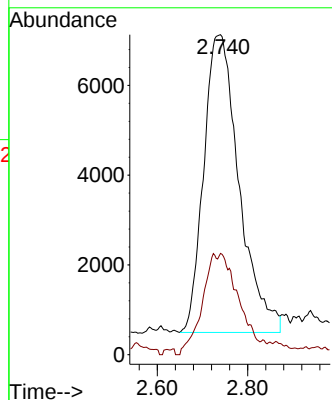
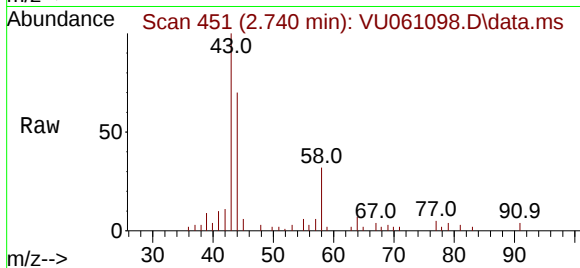
ClientSampleId :

Tgt Ion: 43 Resp: 36025

Ion Ratio Lower Upper

43 100

58 15.0 0.0 69.6



#14

Carbon disulfide

Concen: 0.251 ug/L

RT: 2.772 min Scan# 461

Delta R.T. -0.016 min

Lab File: VU061098.D

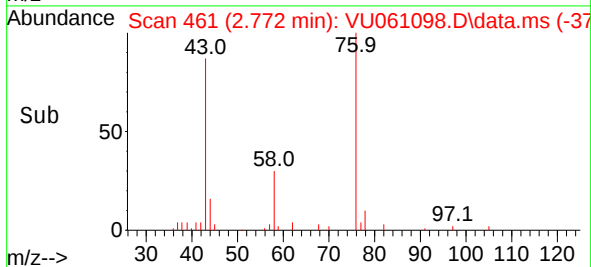
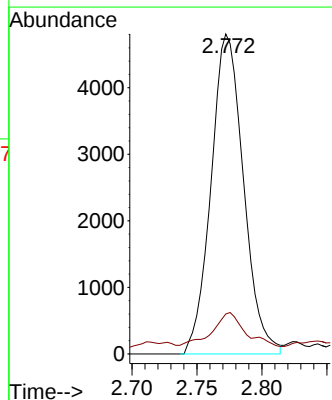
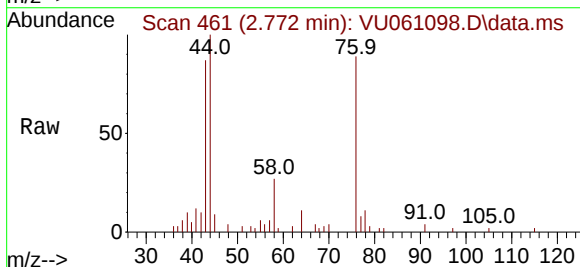
Acq: 10 Oct 2024 18:49

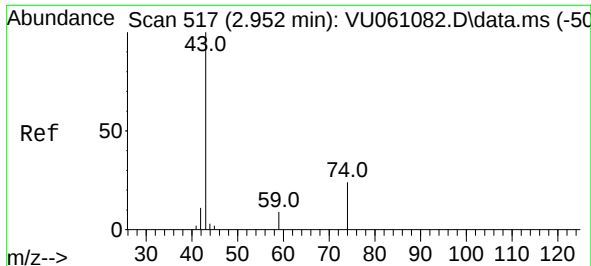
Tgt Ion: 76 Resp: 8356

Ion Ratio Lower Upper

76 100

78 12.5 7.1 10.7#





#15

Methyl Acetate

Concen: 0.266 ug/L

RT: 3.177 min Scan# 517

Delta R.T. 0.225 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

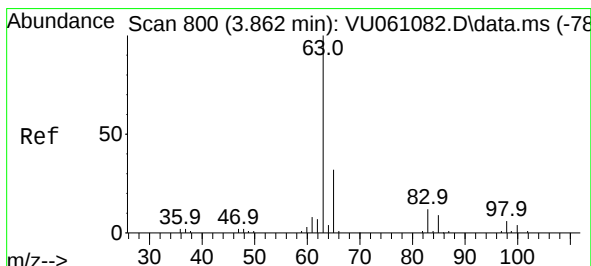
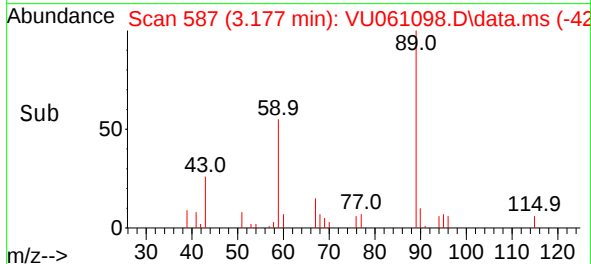
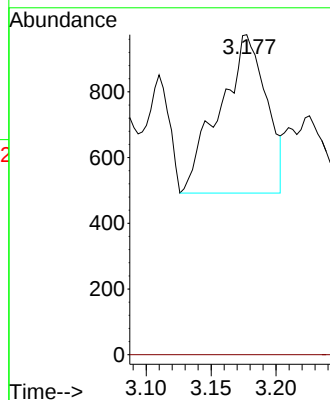
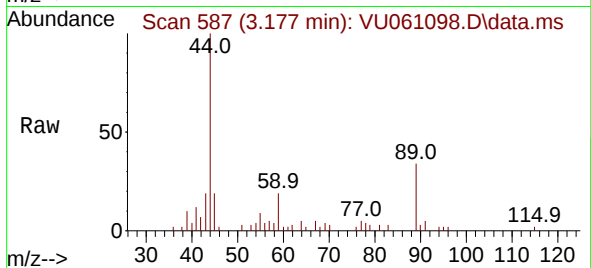
ClientSampleId :

Tgt Ion: 43 Resp: 1207

Ion Ratio Lower Upper

43 100

74 3.6 18.9 28.3#



#19

1,1-Dichloroethane

Concen: 0.648 ug/L

RT: 3.849 min Scan# 796

Delta R.T. -0.013 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

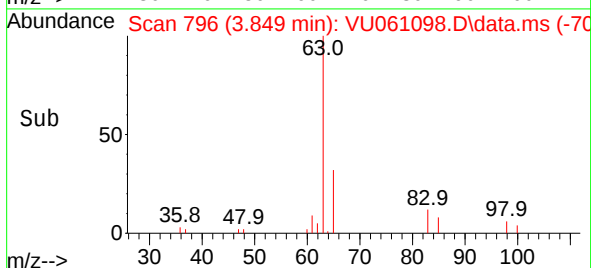
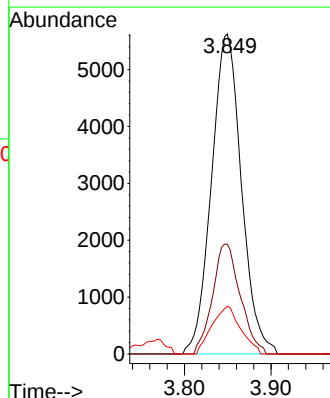
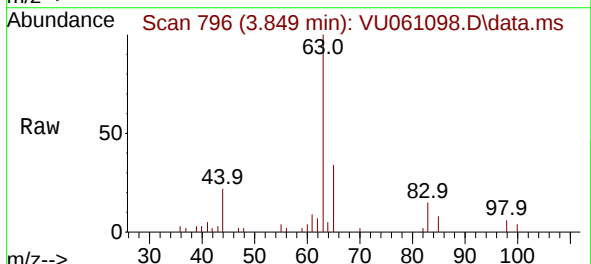
Tgt Ion: 63 Resp: 13519

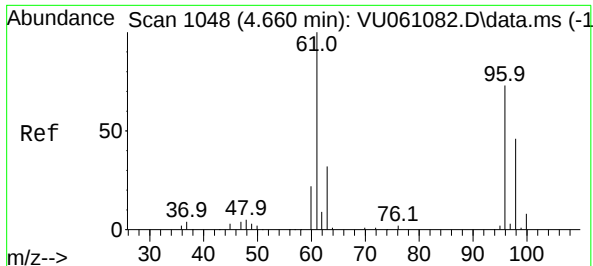
Ion Ratio Lower Upper

63 100

65 34.3 23.0 42.8

83 14.9 9.0 16.6

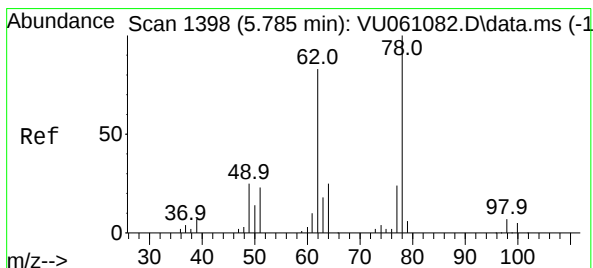
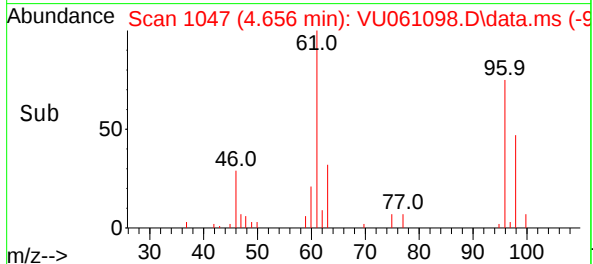
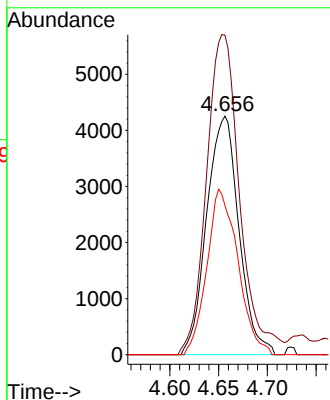
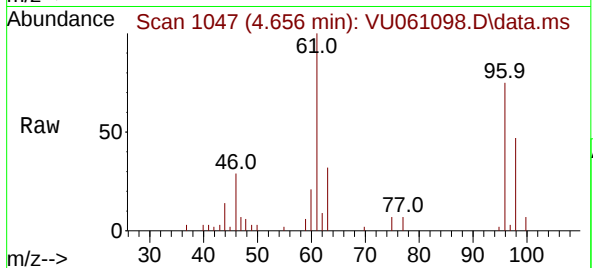




#22
 cis-1,2-Dichloroethene
 Concen: 0.820 ug/L
 RT: 4.656 min Scan# 1047
 Delta R.T. -0.003 min
 Lab File: VU061098.D
 Acq: 10 Oct 2024 18:49

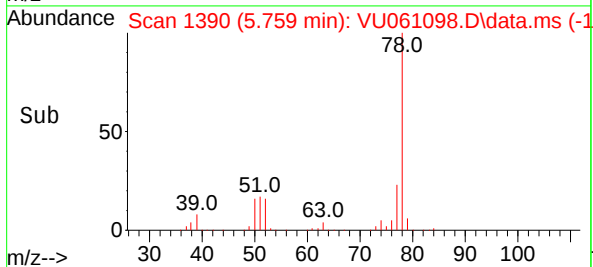
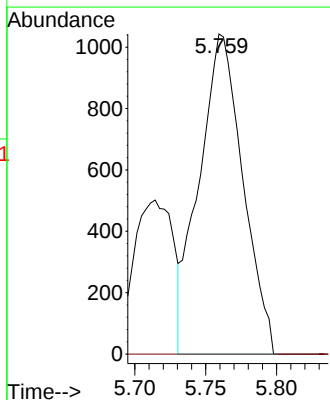
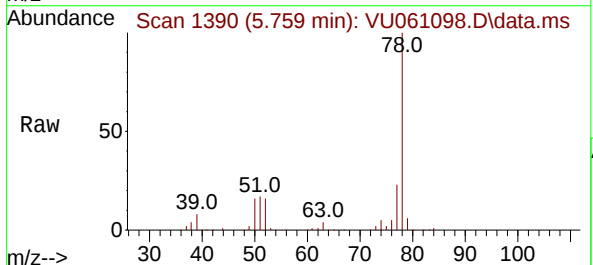
Instrument :
 MSVOA_U
 ClientSampleId :

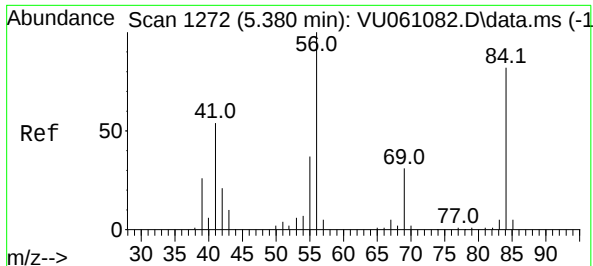
Tgt Ion: 96 Resp: 9785
 Ion Ratio Lower Upper
 96 100
 61 134.0 89.7 166.5
 98 62.6 45.1 83.9



#27
 1,2-Dichloroethane
 Concen: 0.162 ug/L
 RT: 5.759 min Scan# 1390
 Delta R.T. -0.026 min
 Lab File: VU061098.D
 Acq: 10 Oct 2024 18:49

Tgt Ion: 62 Resp: 2233
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.2 12.4#





#30

Cyclohexane

Concen: 0.124 ug/L

RT: 5.361 min Scan# 1266

Delta R.T. -0.019 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

ClientSampleId :

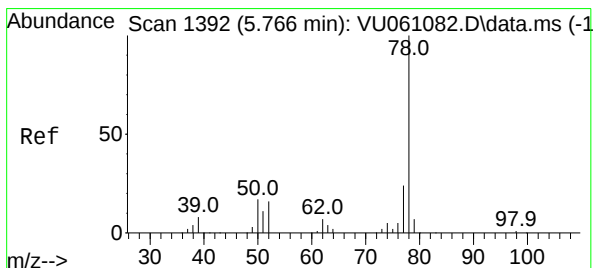
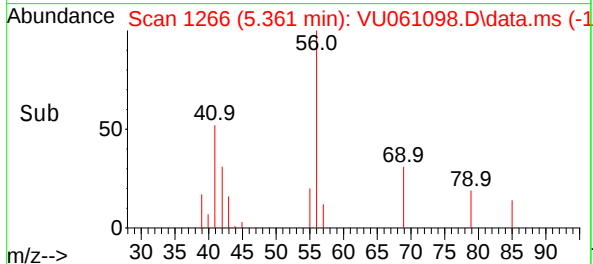
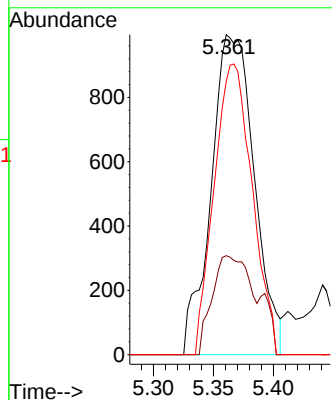
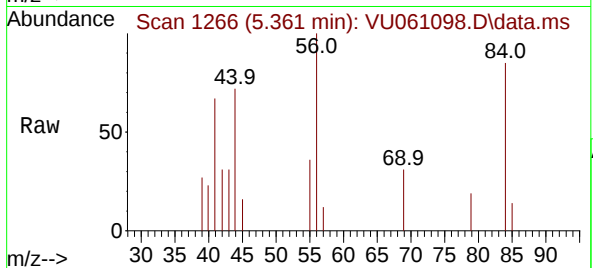
Tgt Ion: 56 Resp: 2495

Ion Ratio Lower Upper

56 100

69 26.9 25.4 38.0

84 79.8 71.0 106.6



#33

Benzene

Concen: 5.341 ug/L

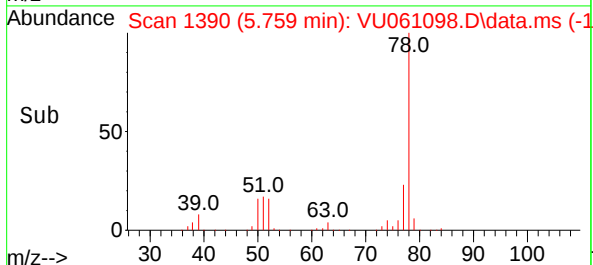
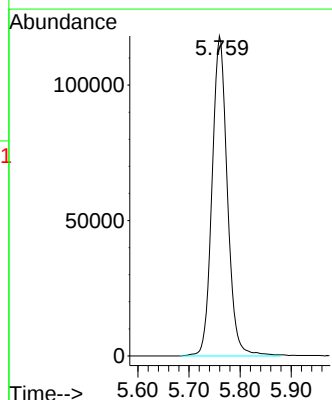
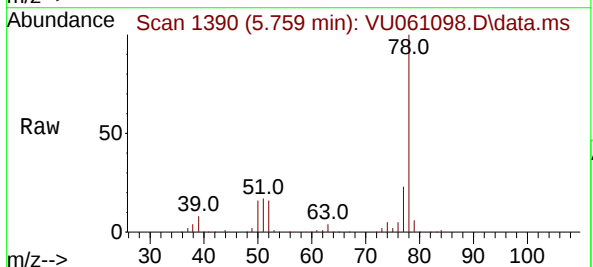
RT: 5.759 min Scan# 1390

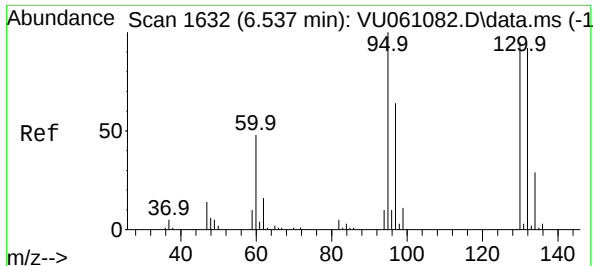
Delta R.T. -0.006 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Tgt Ion: 78 Resp: 246033





#34

Trichloroethene

Concen: 0.370 ug/L

RT: 6.534 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 4626

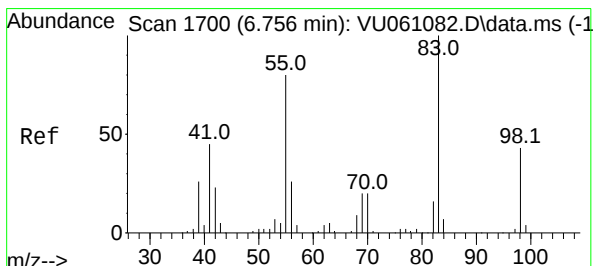
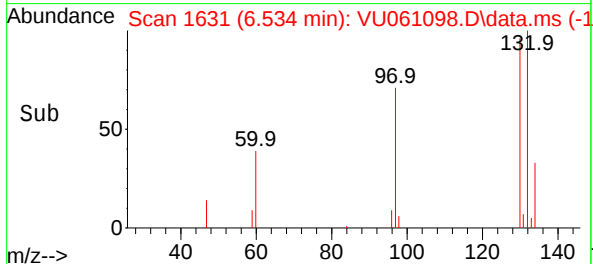
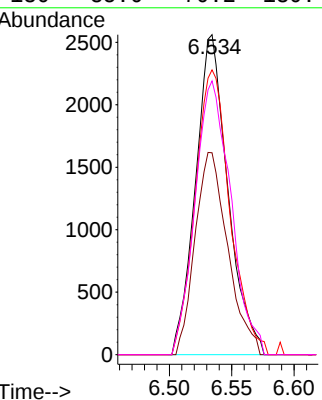
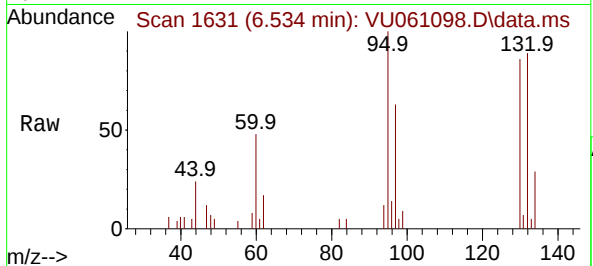
Ion Ratio Lower Upper

95 100

97 63.1 44.9 83.5

132 89.0 63.5 117.9

130 85.6 70.2 130.4



#35

Methylcyclohexane

Concen: 0.171 ug/L

RT: 6.750 min Scan# 1698

Delta R.T. -0.006 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

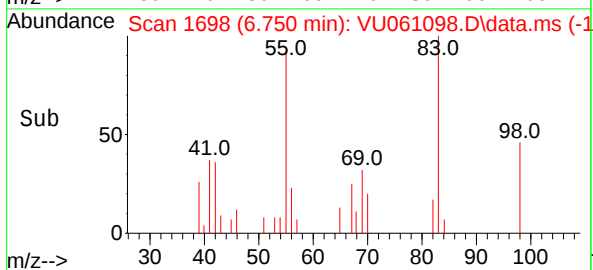
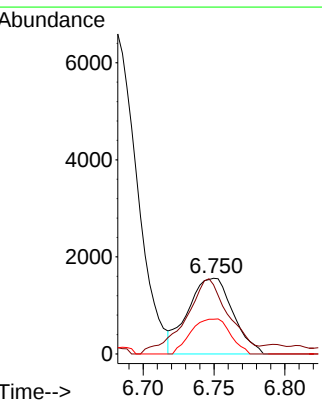
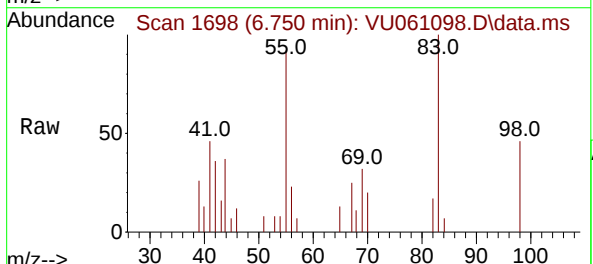
Tgt Ion: 83 Resp: 3440

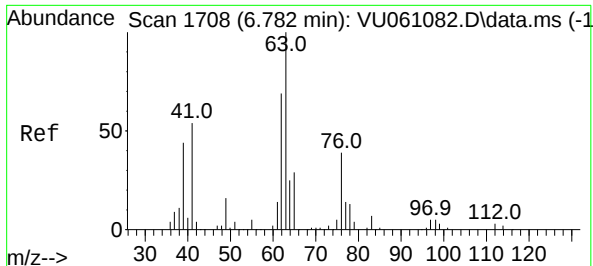
Ion Ratio Lower Upper

83 100

55 95.4 62.6 94.0#

98 40.3 37.6 56.4

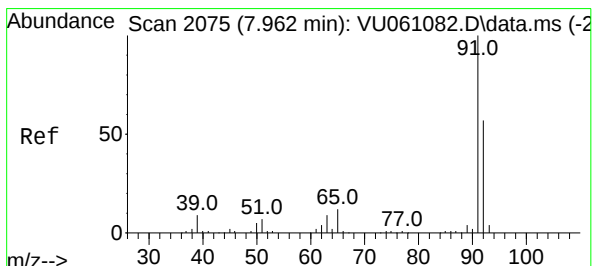
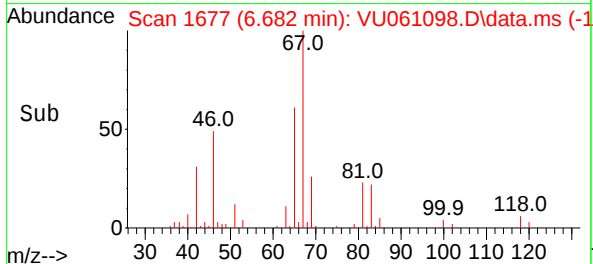
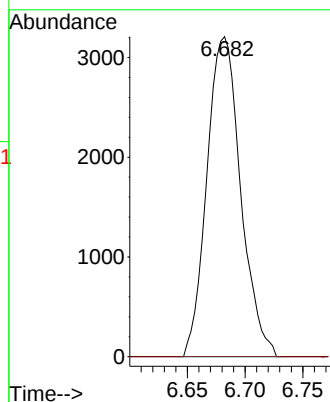
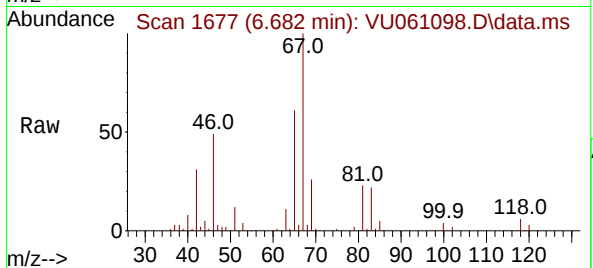




#37
1,2-Dichloropropane
Concen: 0.538 ug/L
RT: 6.682 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU061098.D
Acq: 10 Oct 2024 18:49

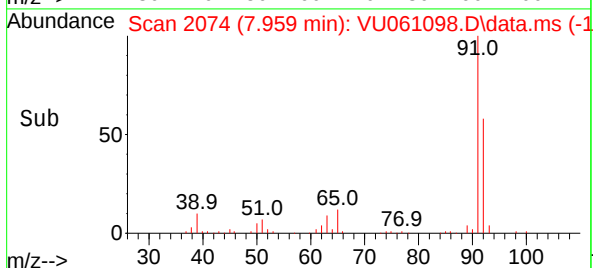
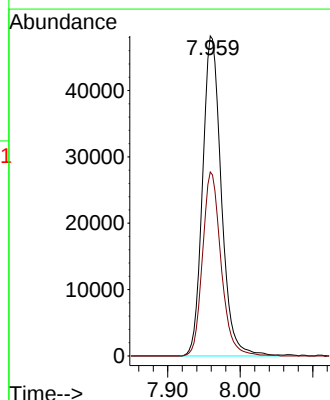
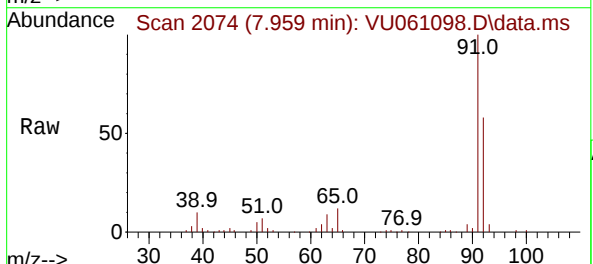
Instrument :
MSVOA_U
ClientSampleId :

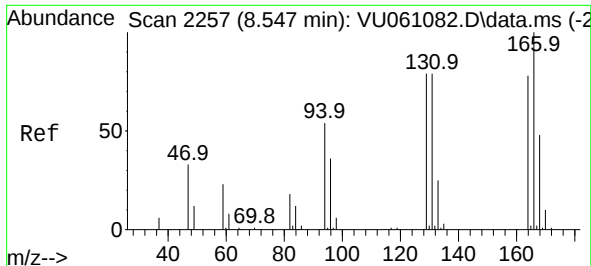
Tgt Ion: 63 Resp: 6532
Ion Ratio Lower Upper
63 100
112 0.0 2.0 3.0#



#42
Toluene
Concen: 1.767 ug/L
RT: 7.959 min Scan# 2074
Delta R.T. -0.003 min
Lab File: VU061098.D
Acq: 10 Oct 2024 18:49

Tgt Ion: 91 Resp: 86720
Ion Ratio Lower Upper
91 100
92 57.5 40.5 75.3





#47

Tetrachloroethene

Concen: 2.629 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.003 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 21362

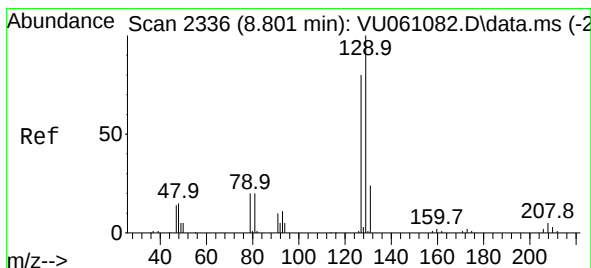
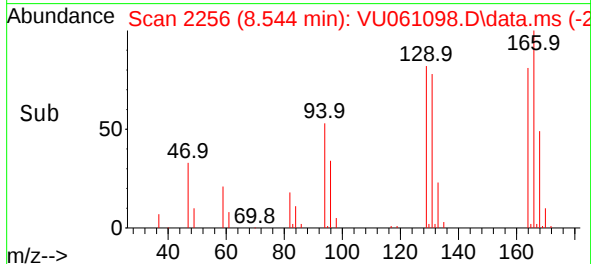
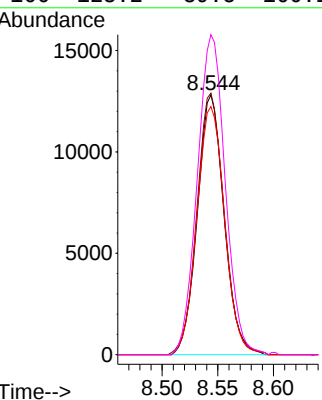
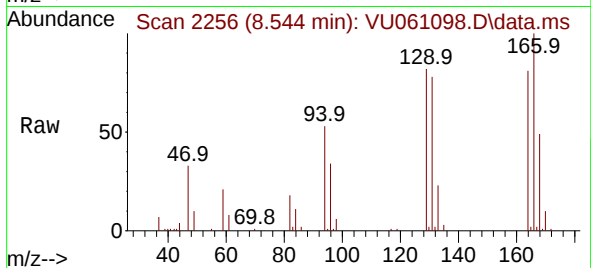
Ion Ratio Lower Upper

164 100

129 100.7 67.3 124.9

131 95.5 65.4 121.4

166 123.2 89.5 166.1



#49

Dibromochloromethane

Concen: 2.348 ug/L

RT: 8.544 min Scan# 2256

Delta R.T. -0.257 min

Lab File: VU061098.D

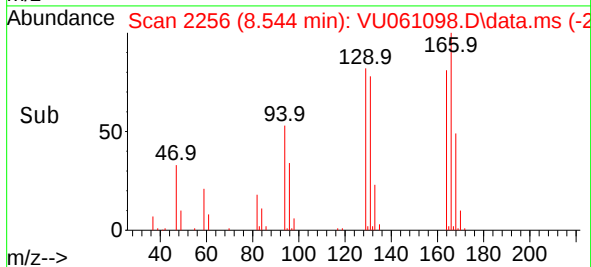
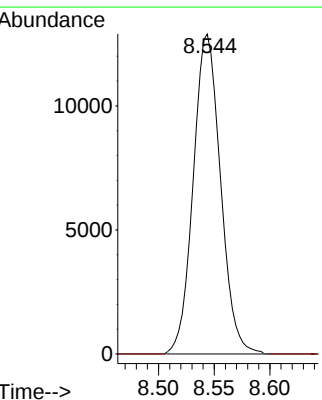
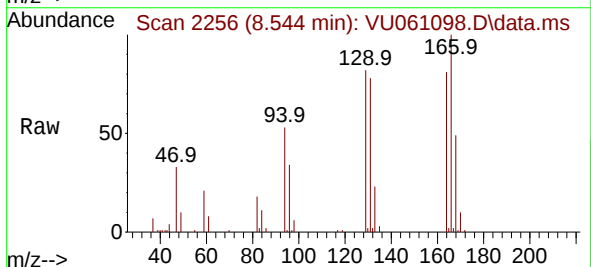
Acq: 10 Oct 2024 18:49

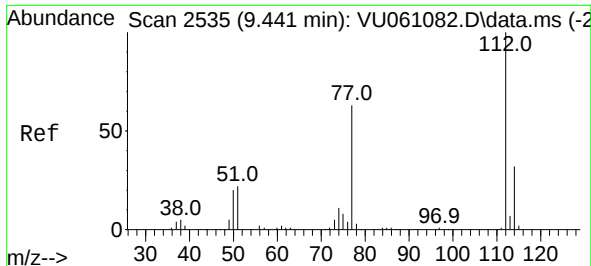
Tgt Ion:129 Resp: 21981

Ion Ratio Lower Upper

129 100

127 0.0 56.1 104.1#





#51

Chlorobenzene

Concen: 0.295 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

ClientSampleId :

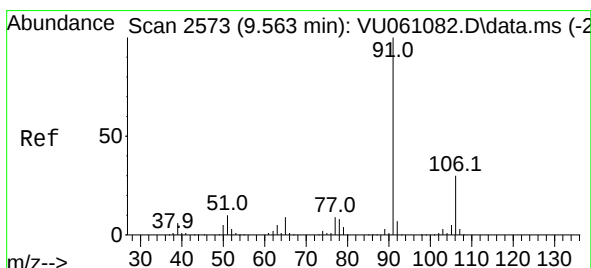
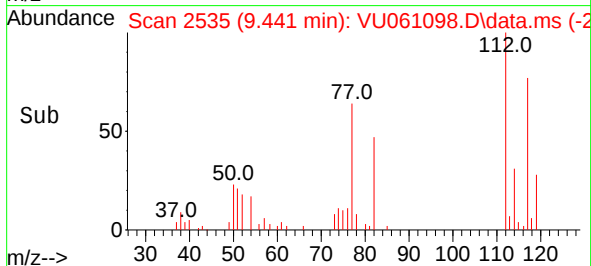
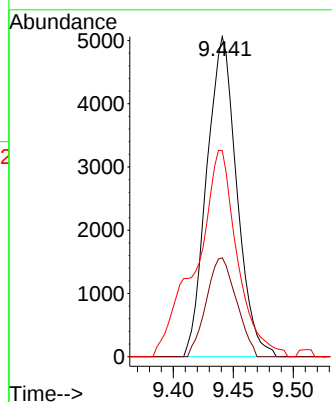
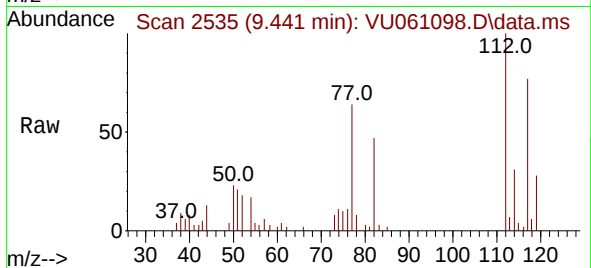
Tgt Ion:112 Resp: 8829

Ion Ratio Lower Upper

112 100

114 30.9 22.2 41.2

77 64.4 46.1 69.1



#52

Ethylbenzene

Concen: 0.484 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. 0.000 min

Lab File: VU061098.D

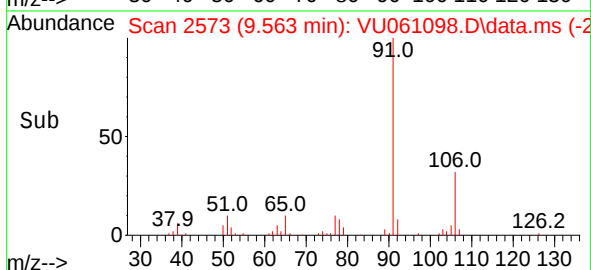
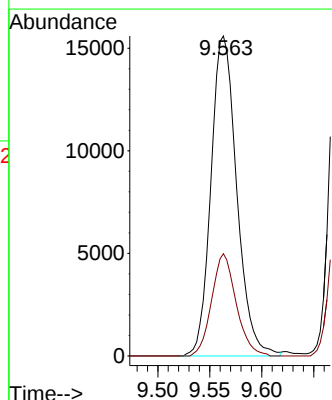
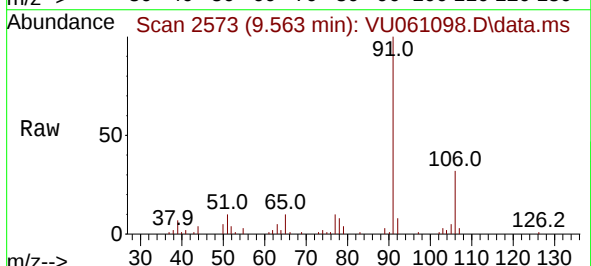
Acq: 10 Oct 2024 18:49

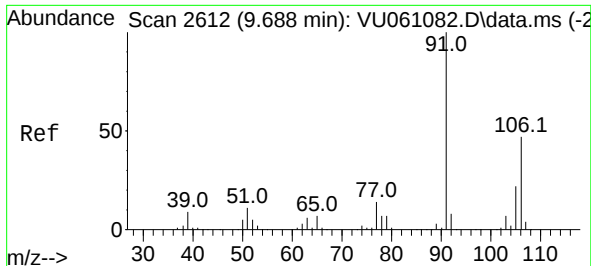
Tgt Ion: 91 Resp: 26929

Ion Ratio Lower Upper

91 100

106 32.0 21.8 40.6





#53

m,p-Xylene

Concen: 1.702 ug/L

RT: 9.685 min Scan# 2612

Delta R.T. -0.003 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

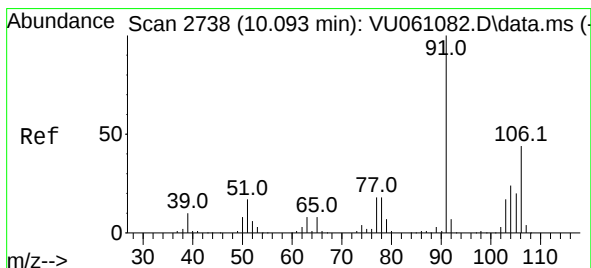
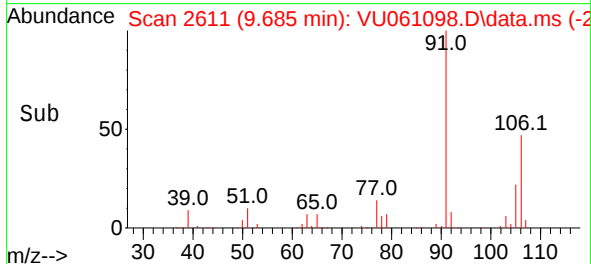
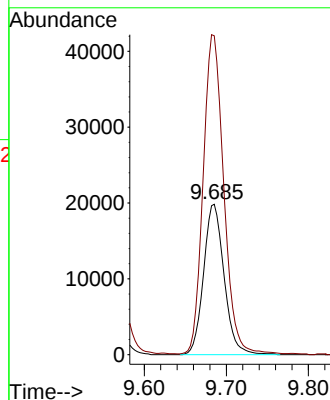
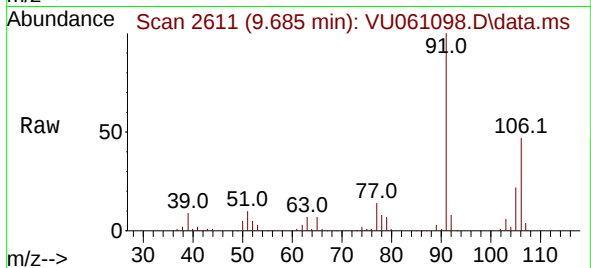
ClientSampleId :

Tgt Ion:106 Resp: 34531

Ion Ratio Lower Upper

106 100

91 212.1 139.7 259.4



#54

o-Xylene

Concen: 1.146 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. 0.000 min

Lab File: VU061098.D

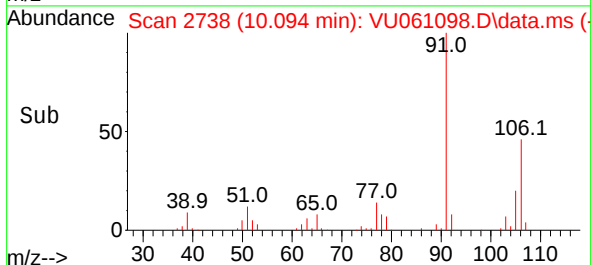
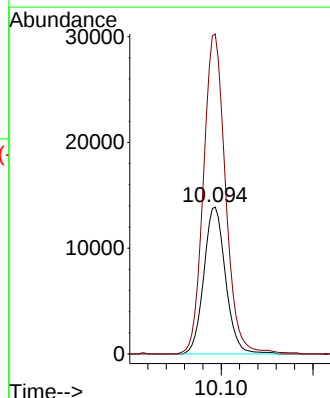
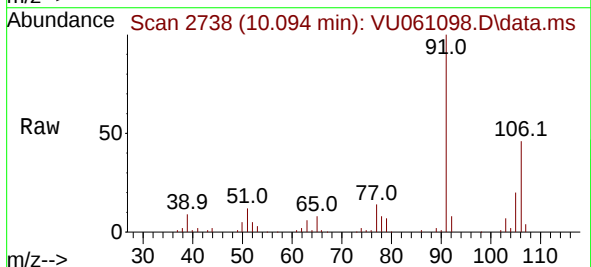
Acq: 10 Oct 2024 18:49

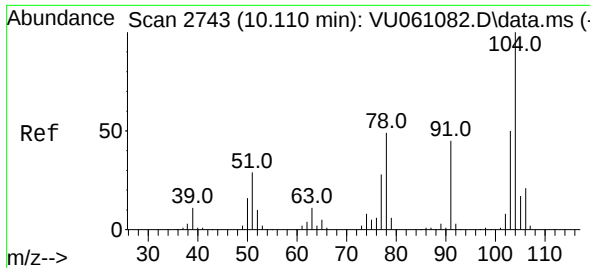
Tgt Ion:106 Resp: 22872

Ion Ratio Lower Upper

106 100

91 217.7 148.6 276.0

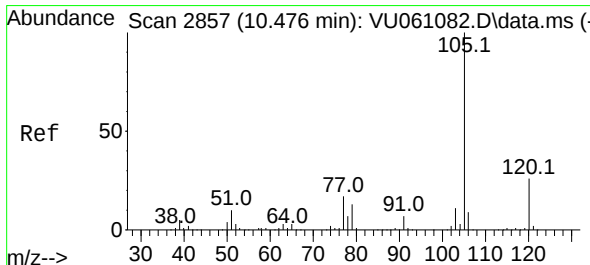
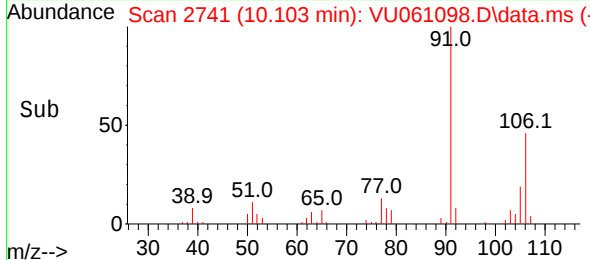
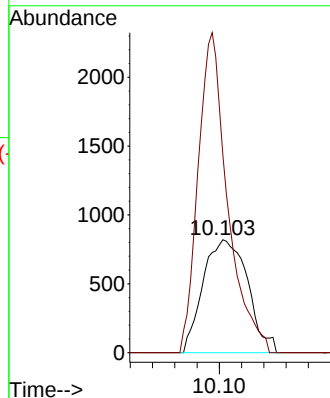
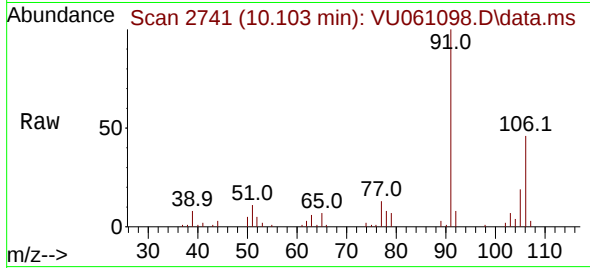




#55
Styrene
Concen: 0.071 ug/L
RT: 10.103 min Scan# 21
Delta R.T. -0.006 min
Lab File: VU061098.D
Acq: 10 Oct 2024 18:49

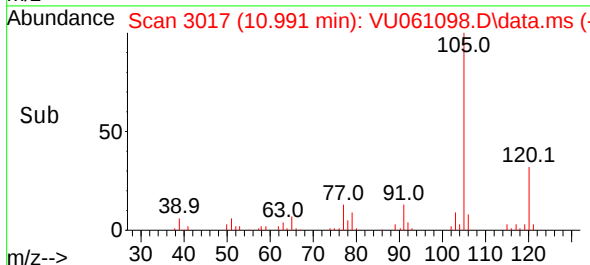
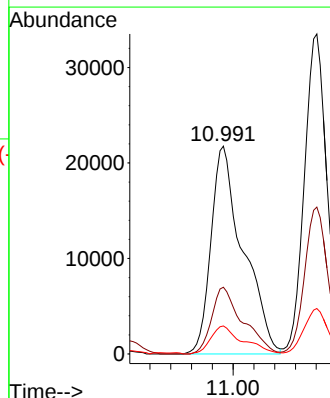
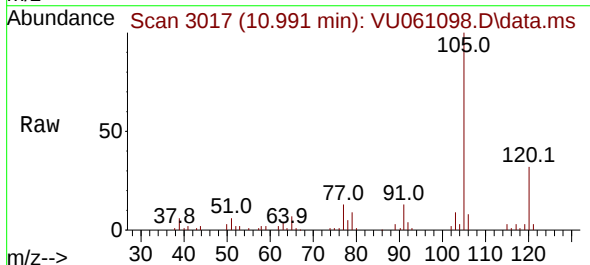
Instrument :
MSVOA_U
ClientSampleId :

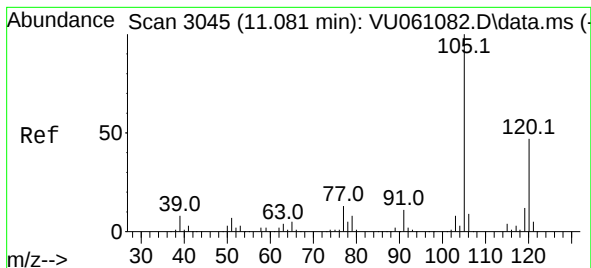
Tgt Ion:104 Resp: 2281
Ion Ratio Lower Upper
104 100
78 174.6 31.7 58.9#



#60
Isopropylbenzene
Concen: 0.906 ug/L
RT: 10.991 min Scan# 3017
Delta R.T. 0.514 min
Lab File: VU061098.D
Acq: 10 Oct 2024 18:49

Tgt Ion:105 Resp: 46664
Ion Ratio Lower Upper
105 100
120 31.2 21.5 32.3
77 13.5 12.6 18.8





#62

1,3,5-Trimethylbenzene

Concen: 1.116 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. 0.000 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

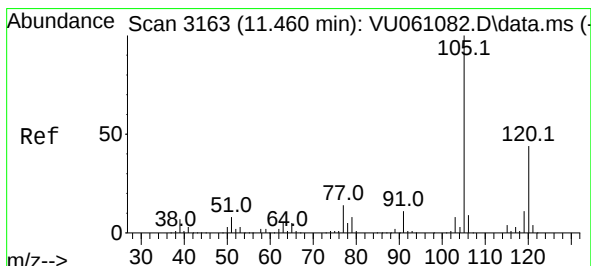
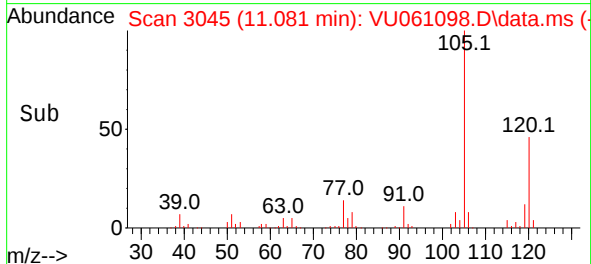
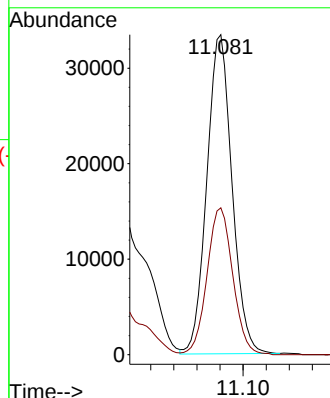
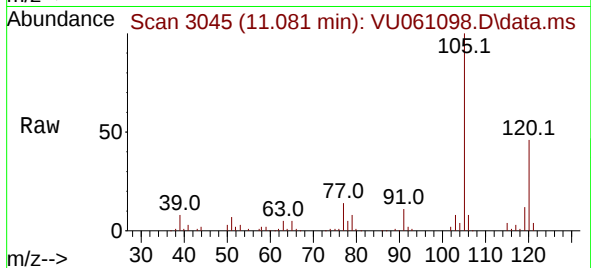
ClientSampleId :

Tgt Ion:105 Resp: 50644

Ion Ratio Lower Upper

105 100

120 47.1 38.5 57.7



#63

1,2,4-Trimethylbenzene

Concen: 1.805 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. 0.000 min

Lab File: VU061098.D

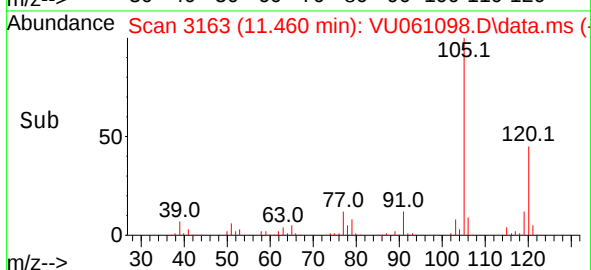
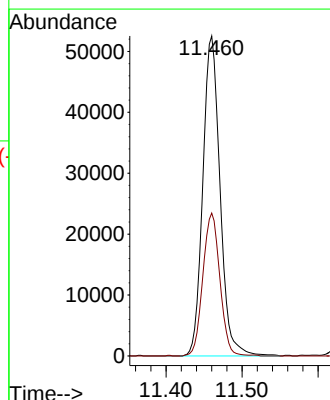
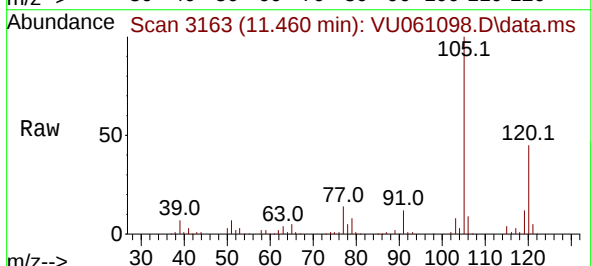
Acq: 10 Oct 2024 18:49

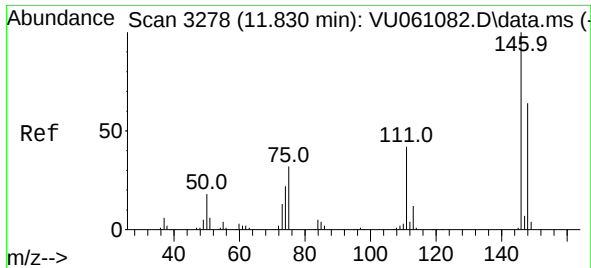
Tgt Ion:105 Resp: 82721

Ion Ratio Lower Upper

105 100

120 43.9 36.1 54.1





#65

1,4-Dichlorobenzene

Concen: 2.332 ug/L

RT: 11.827 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

ClientSampleId :

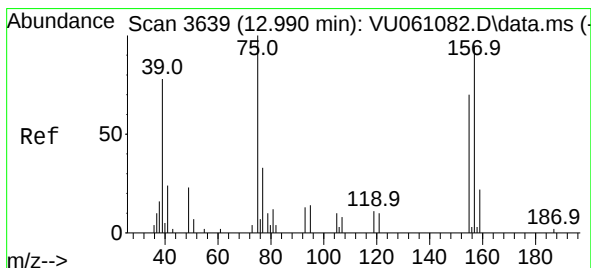
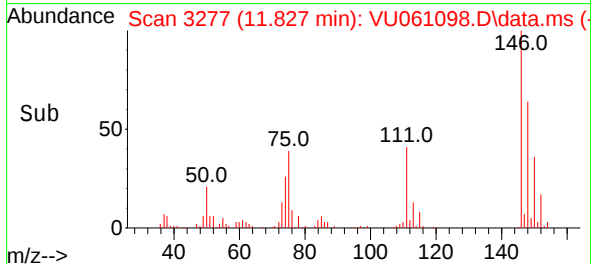
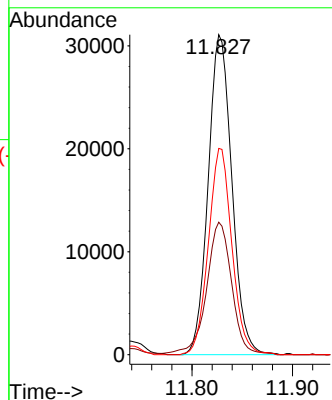
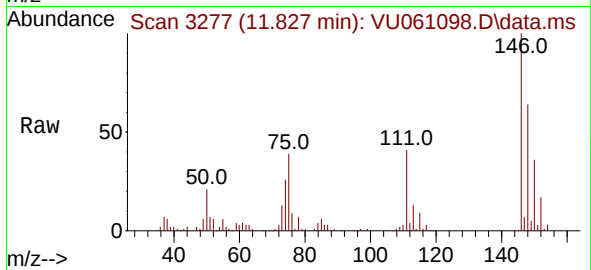
Tgt Ion:146 Resp: 50899

Ion Ratio Lower Upper

146 100

111 41.4 26.3 48.9

148 64.5 45.3 84.1



#68

1,2-Dibromo-3-chloropropane

Concen: 0.065 ug/L

RT: 12.968 min Scan# 3632

Delta R.T. -0.022 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

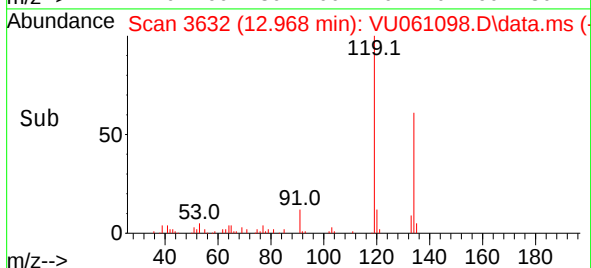
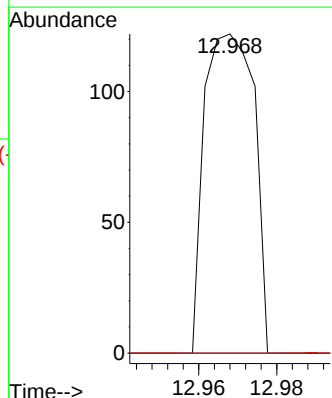
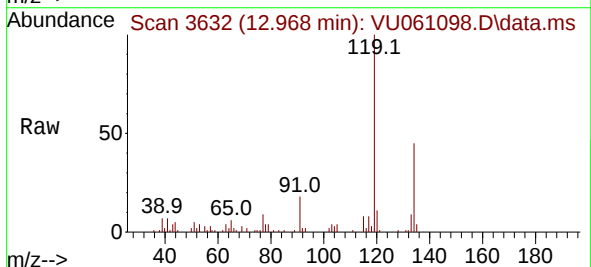
Tgt Ion: 75 Resp: 108

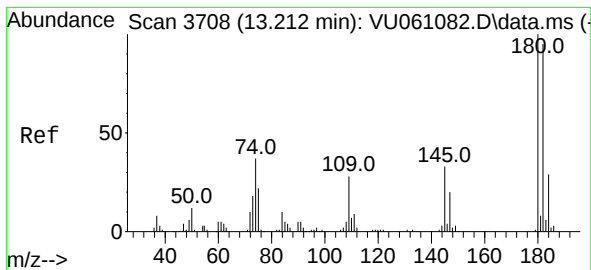
Ion Ratio Lower Upper

75 100

155 0.0 73.1 109.7#

157 0.0 91.0 136.4#





#69

1,3,5-Trichlorobenzene

Concen: 0.157 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.621 min

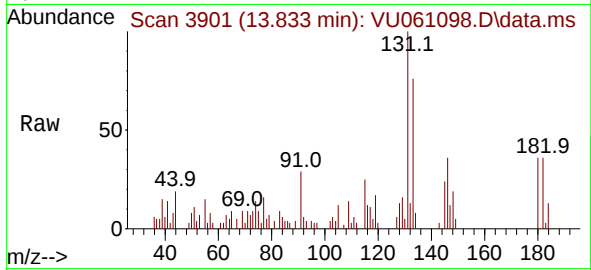
Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 2433

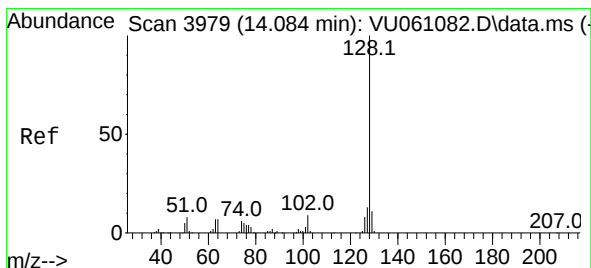
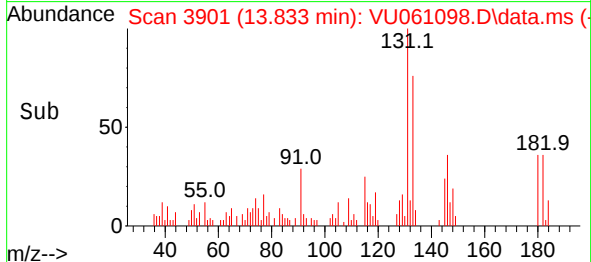
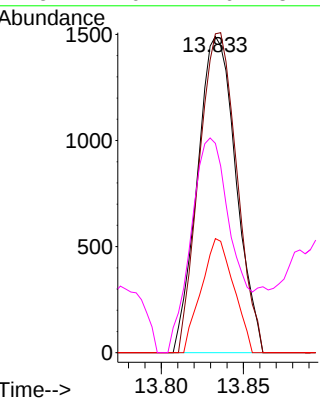
Ion Ratio Lower Upper

180 100

182 98.4 74.5 111.7

184 30.2 23.2 34.8

145 72.9 21.6 32.4#



#71

Naphthalene

Concen: 64.507 ug/L

RT: 14.077 min Scan# 3977

Delta R.T. -0.006 min

Lab File: VU061098.D

Acq: 10 Oct 2024 18:49

Tgt Ion:128 Resp: 1255400

Ion Ratio Lower Upper

128 100

129 11.0 8.3 12.5

127 12.9 10.7 16.1

