

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU101024\
 Data File : VU061091.D
 Acq On : 10 Oct 2024 15:59
 Operator : MD/SY
 Sample : P4380-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 11 06:49:20 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	6.261	114	173093	5.000	ug/L	0.02
28) Chlorobenzene-d5	9.415	117	158344	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	76892	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	41268	3.335	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.600%
7) Chloroethane-d5	1.923	69	34487	3.723	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.400%
11) 1,1-Dichloroethene-d2	2.567	65	18673	3.420	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.400%
20) 2-Butanone-d5	4.727	46	105739	35.670	ug/L	0.11
Spiked Amount	50.000	Range	40 - 130	Recovery	=	71.340%
24) Chloroform-d	5.078	84	86327	3.958	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.200%
26) 1,2-Dichloroethane-d4	5.724	65	45911	3.971	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.400%
32) Benzene-d6	5.740	84	168357	4.032	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.600%
36) 1,2-Dichloropropane-d6	6.701	67	57705	4.209	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.200%
41) Toluene-d8	7.901	98	154784	3.966	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.400%
43) trans-1,3-Dichloroprop...	8.184	79	22230	3.792	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.800%
46) 2-Hexanone-d5	8.643	63	99968	41.197	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.400%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	41075	4.085	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.600%
66) 1,2-Dichlorobenzene-d4	12.187	152	54197	4.408	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.605	62	7287	0.596	ug/L	90
13) Acetone	2.747	43	21776	11.422	ug/L	65
15) Methyl Acetate	3.065	43	1698	0.366	ug/L #	57
18) trans-1,2-Dichloroethene	3.351	96	7018	0.641	ug/L	92
22) cis-1,2-Dichloroethene	4.676	96	133281	10.922	ug/L	96
30) Cyclohexane	5.396	56	2295	0.112	ug/L #	80
33) Benzene	5.792	78	30055	0.644	ug/L	100
34) Trichloroethene	6.550	95	129290	10.218	ug/L	97
35) Methylcyclohexane	6.769	83	1680	0.082	ug/L #	58
37) 1,2-Dichloropropane	6.705	63	6131	0.498	ug/L #	93
42) Toluene	7.968	91	1111181	22.345	ug/L	99
45) 1,1,2-Trichloroethane	8.550	97	23890	2.930	ug/L #	1
47) Tetrachloroethene	8.553	164	2380270	289.035	ug/L	95
49) Dibromochloromethane	8.553	129	2464282	259.797	ug/L #	9
52) Ethylbenzene	9.569	91	15328	0.272	ug/L	97
53) m,p-Xylene	9.688	106	34716	1.689	ug/L	90
54) o-Xylene	10.097	106	15974	0.790	ug/L	87
60) Isopropylbenzene	11.286	105	12059	0.234	ug/L	96
62) 1,3,5-Trimethylbenzene	11.084	105	19798	0.437	ug/L	99

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Oct 11 06:46:55 2024
Response via : Initial Calibration

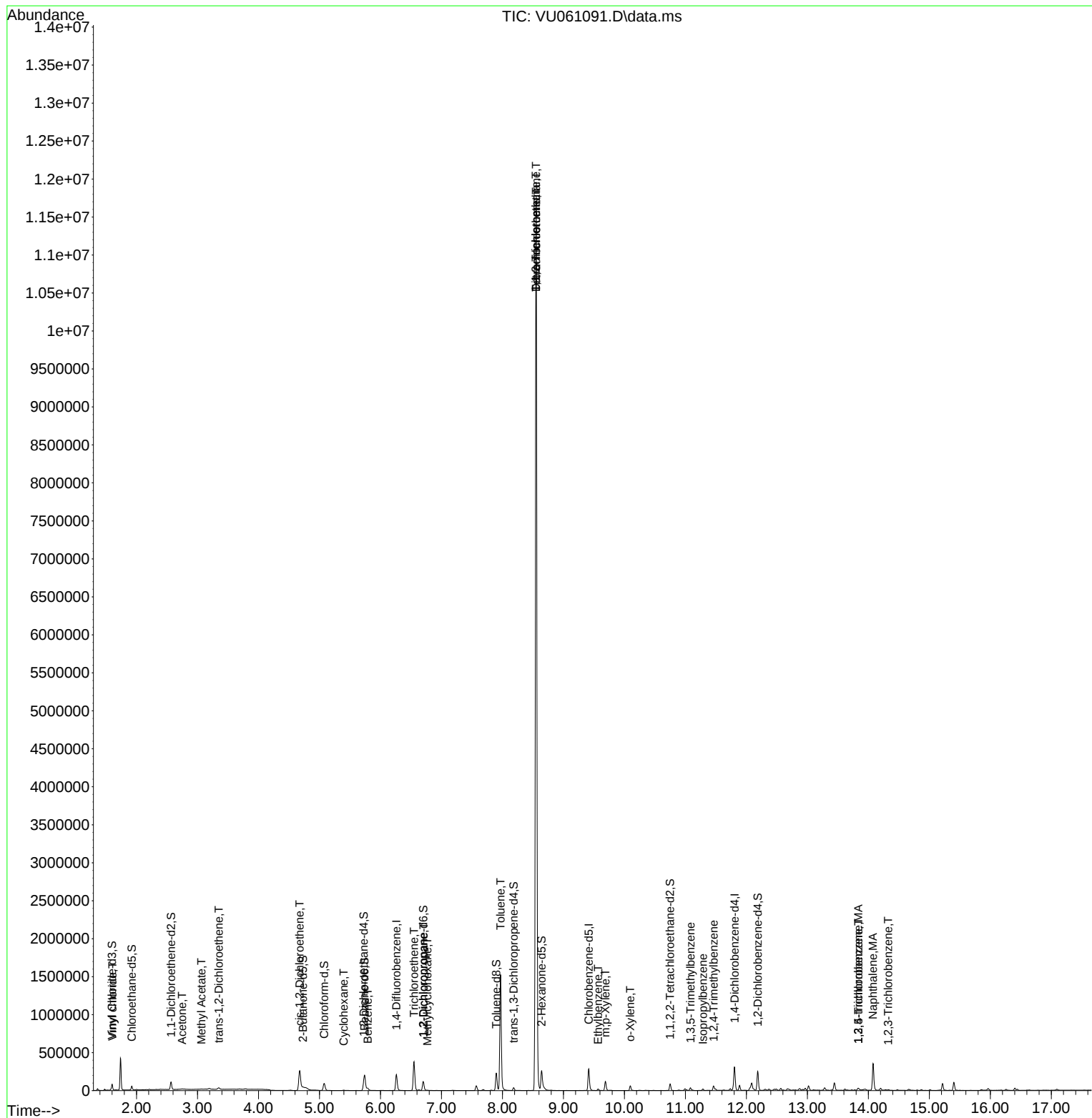
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.463	105	33529	0.733	ug/L	97
69) 1,3,5-Trichlorobenzene	13.836	180	3576	0.230	ug/L #	90
70) 1,2,4-trichlorobenzene	13.836	180	3576	0.301	ug/L #	91
71) Naphthalene	14.077	128	269277	13.859	ug/L	99
72) 1,2,3-Trichlorobenzene	14.325	180	1578	0.159	ug/L	95

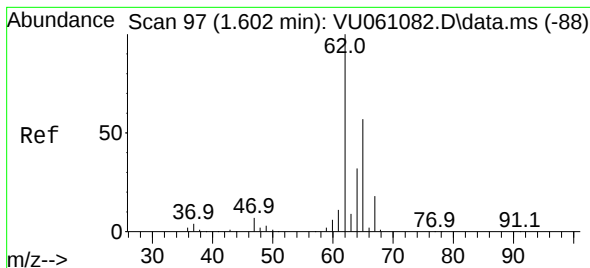
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.596 ug/L

RT: 1.605 min Scan# 91

Delta R.T. 0.003 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

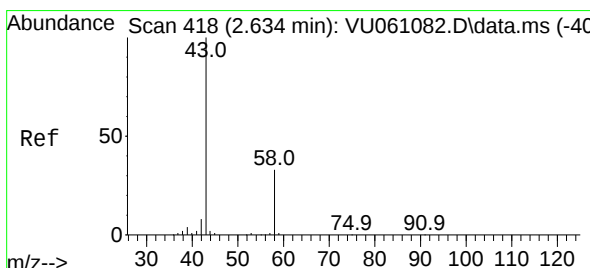
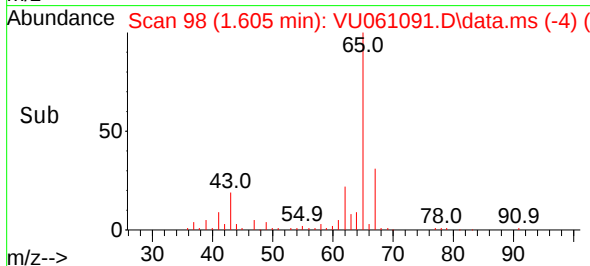
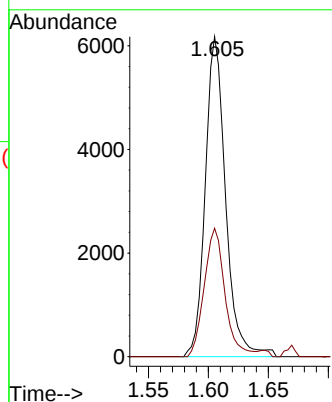
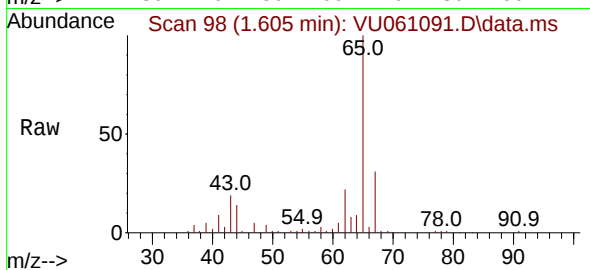
ClientSampleId :

Tgt Ion: 62 Resp: 7287

Ion Ratio Lower Upper

62 100

64 40.1 24.0 44.6



#13

Acetone

Concen: 11.422 ug/L

RT: 2.747 min Scan# 453

Delta R.T. 0.113 min

Lab File: VU061091.D

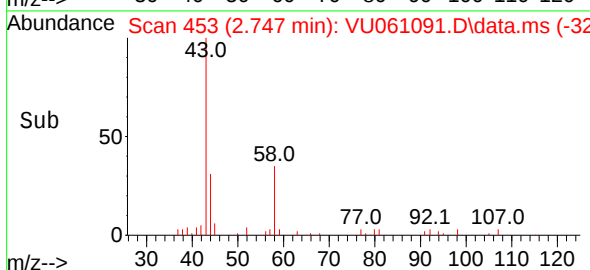
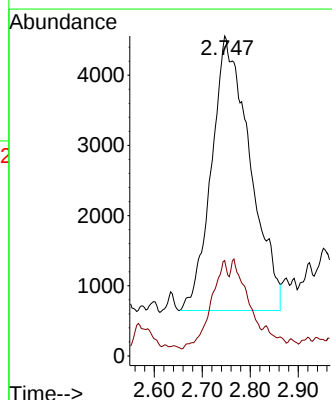
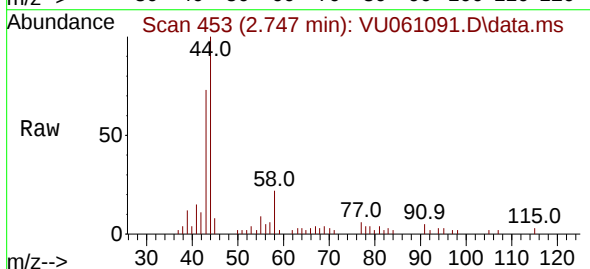
Acq: 10 Oct 2024 15:59

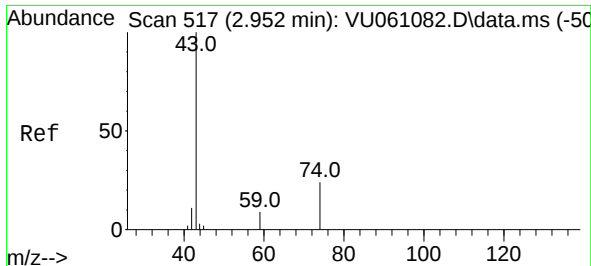
Tgt Ion: 43 Resp: 21776

Ion Ratio Lower Upper

43 100

58 14.6 0.0 69.6





#15

Methyl Acetate

Concen: 0.366 ug/L

RT: 3.065 min Scan# 517

Delta R.T. 0.113 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

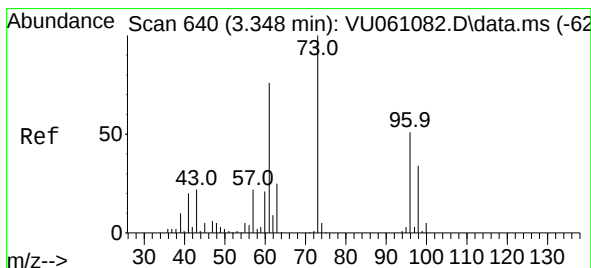
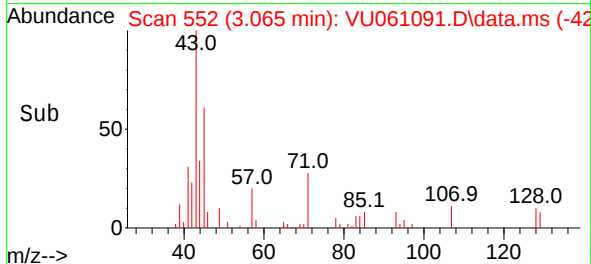
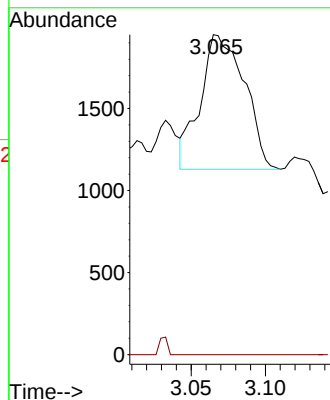
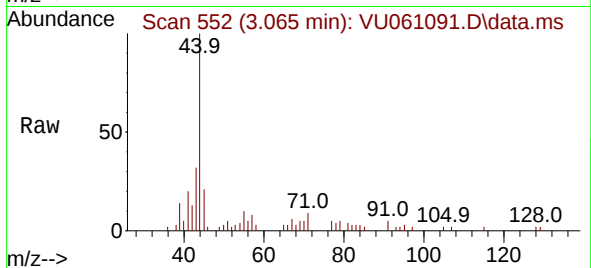
ClientSampleId :

Tgt Ion: 43 Resp: 1698

Ion Ratio Lower Upper

43 100

74 2.4 18.9 28.3#



#18

trans-1,2-Dichloroethene

Concen: 0.641 ug/L

RT: 3.351 min Scan# 641

Delta R.T. 0.003 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

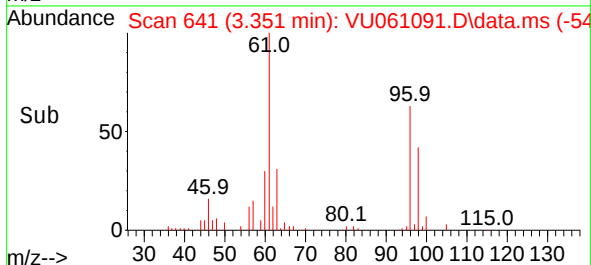
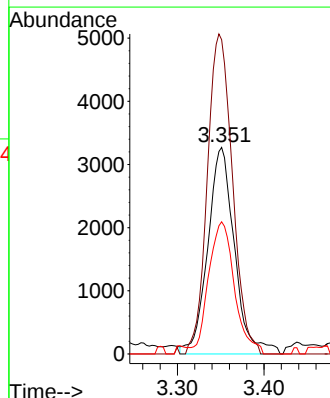
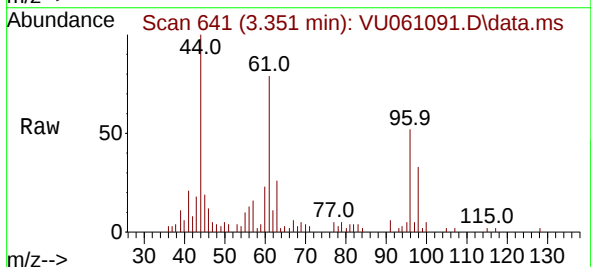
Tgt Ion: 96 Resp: 7018

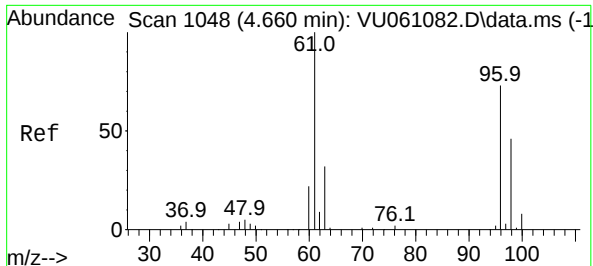
Ion Ratio Lower Upper

96 100

61 152.1 97.2 180.6

98 63.9 43.3 80.5

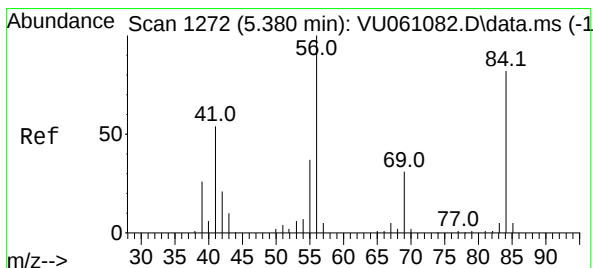
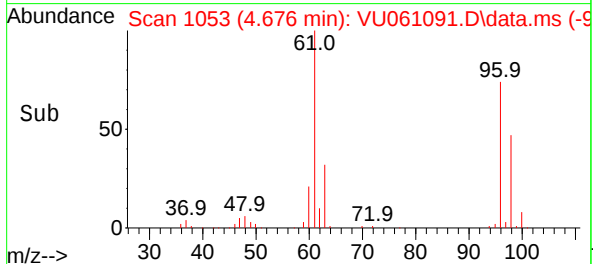
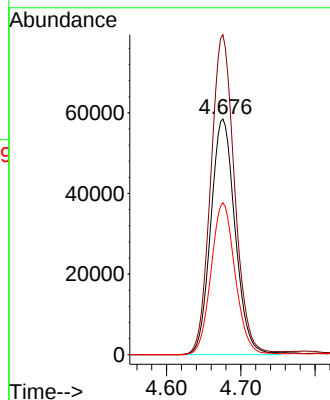
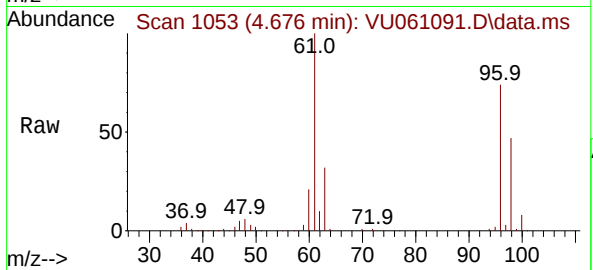




#22
 cis-1,2-Dichloroethene
 Concen: 10.922 ug/L
 RT: 4.676 min Scan# 1053
 Delta R.T. 0.016 min
 Lab File: VU061091.D
 Acq: 10 Oct 2024 15:59

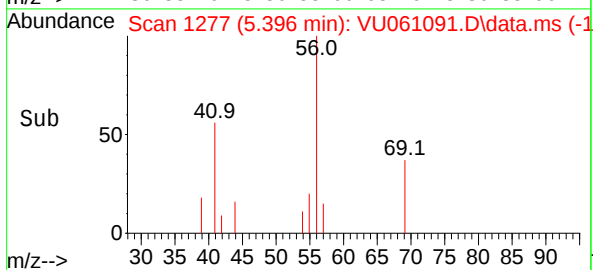
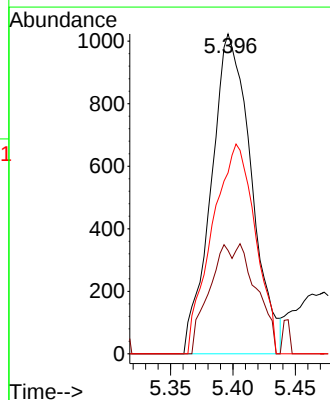
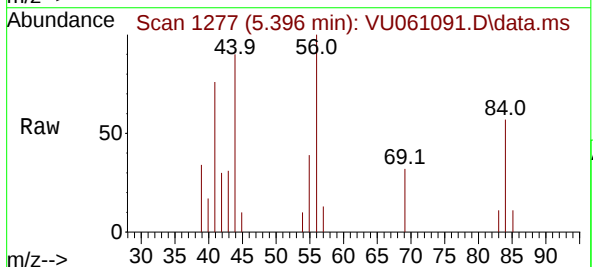
Instrument :
 MSVOA_U
 ClientSampleId :

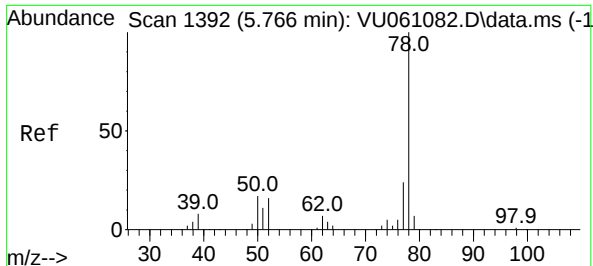
Tgt Ion: 96 Resp: 133281
 Ion Ratio Lower Upper
 96 100
 61 135.7 89.7 166.5
 98 64.5 45.1 83.9



#30
 Cyclohexane
 Concen: 0.112 ug/L
 RT: 5.396 min Scan# 1277
 Delta R.T. 0.016 min
 Lab File: VU061091.D
 Acq: 10 Oct 2024 15:59

Tgt Ion: 56 Resp: 2295
 Ion Ratio Lower Upper
 56 100
 69 20.2 25.4 38.0#
 84 70.5 71.0 106.6#





#33

Benzene

Concen: 0.644 ug/L

RT: 5.792 min Scan# 14

Delta R.T. 0.026 min

Lab File: VU061091.D

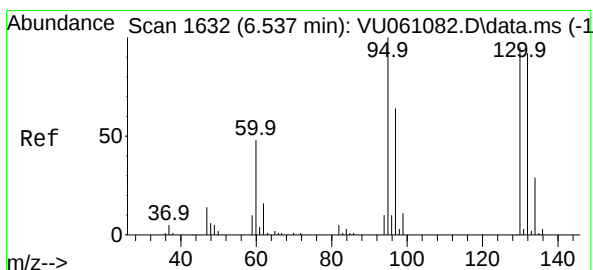
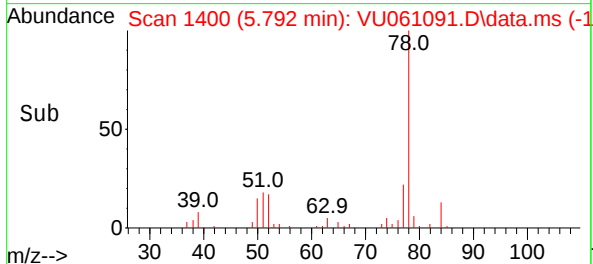
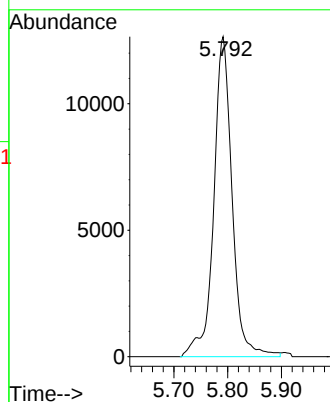
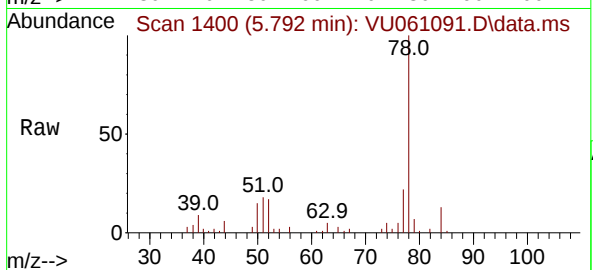
Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 30055



#34

Trichloroethene

Concen: 10.218 ug/L

RT: 6.550 min Scan# 1636

Delta R.T. 0.013 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Tgt Ion: 95 Resp: 129290

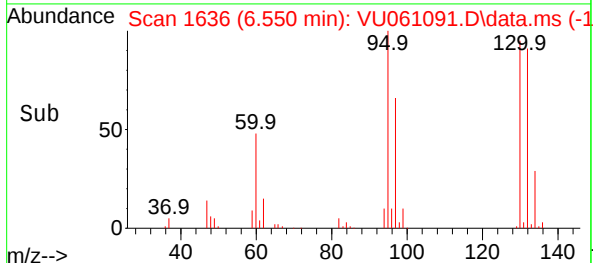
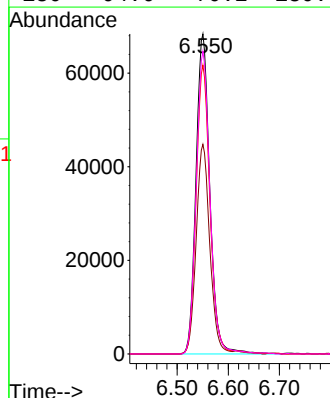
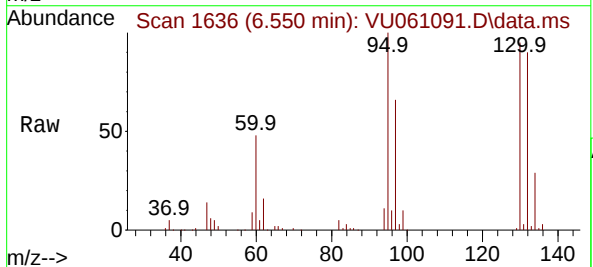
Ion Ratio Lower Upper

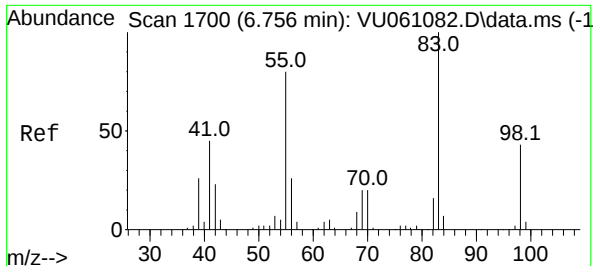
95 100

97 65.5 44.9 83.5

132 90.2 63.5 117.9

130 94.6 70.2 130.4

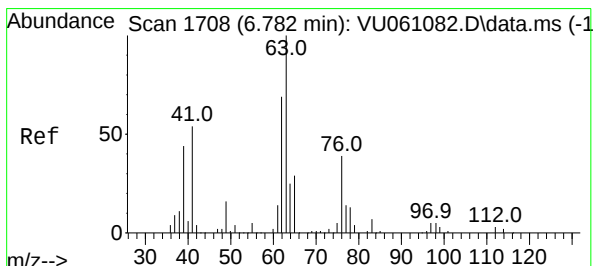
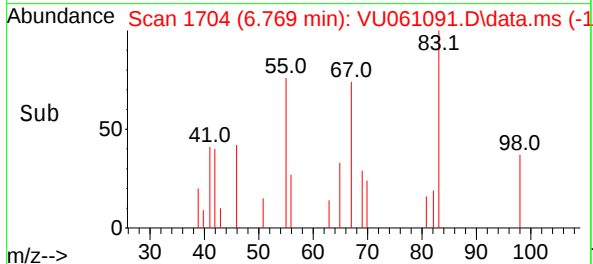
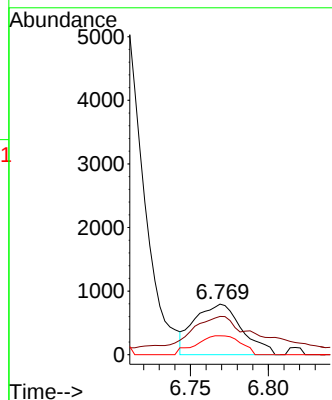
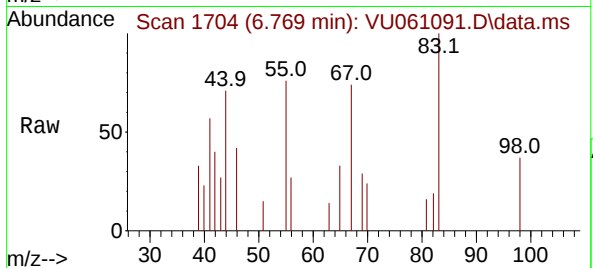




#35
Methylcyclohexane
Concen: 0.082 ug/L
RT: 6.769 min Scan# 1
Delta R.T. 0.013 min
Lab File: VU061091.D
Acq: 10 Oct 2024 15:59

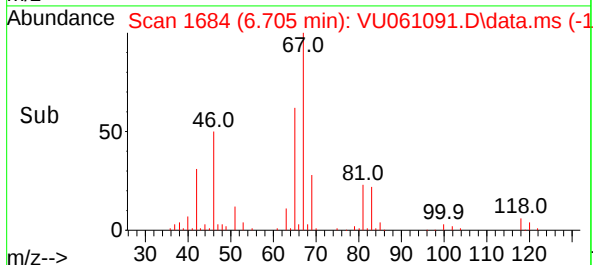
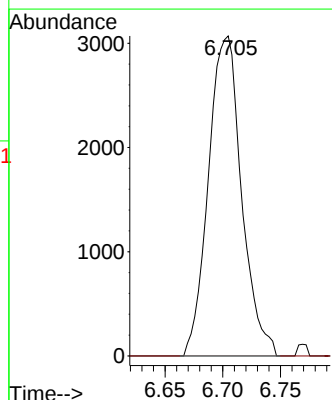
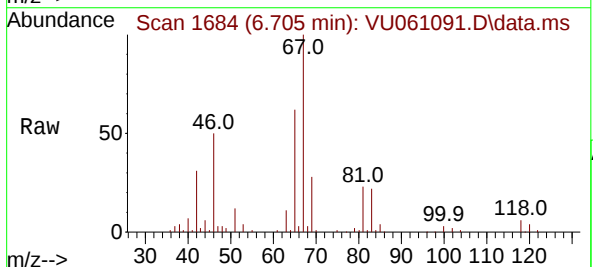
Instrument :
MSVOA_U
ClientSampleId :

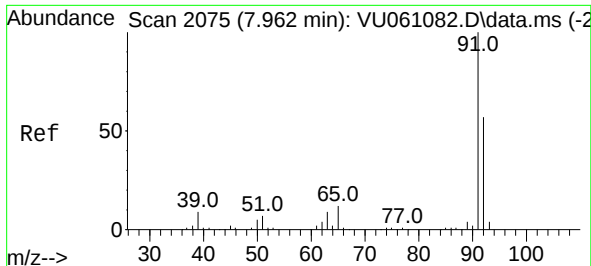
Tgt Ion: 83 Resp: 1680
Ion Ratio Lower Upper
83 100
55 127.3 62.6 94.0#
98 34.9 37.6 56.4#



#37
1,2-Dichloropropane
Concen: 0.498 ug/L
RT: 6.705 min Scan# 1684
Delta R.T. -0.077 min
Lab File: VU061091.D
Acq: 10 Oct 2024 15:59

Tgt Ion: 63 Resp: 6131
Ion Ratio Lower Upper
63 100
112 0.0 2.0 3.0#





#42

Toluene

Concen: 22.345 ug/L

RT: 7.968 min Scan# 2075

Delta R.T. 0.007 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

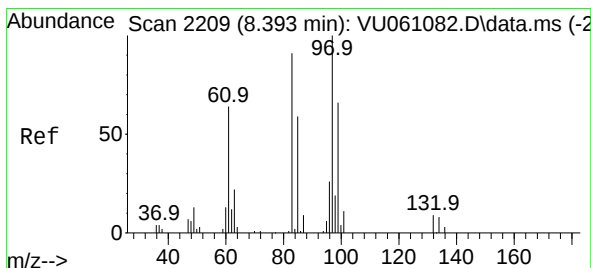
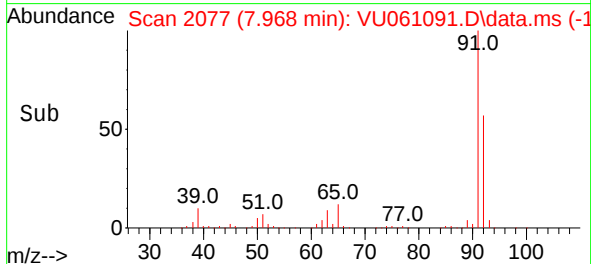
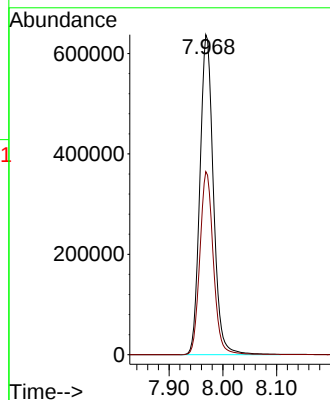
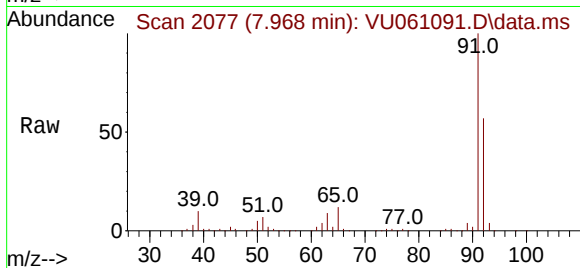
ClientSampleId :

Tgt Ion: 91 Resp: 1111181

Ion Ratio Lower Upper

91 100

92 57.2 40.5 75.3



#45

1,1,2-Trichloroethane

Concen: 2.930 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.158 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Tgt Ion: 97 Resp: 23890

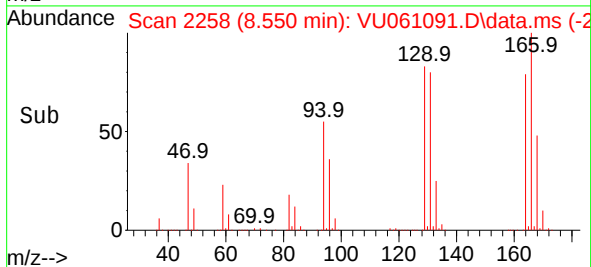
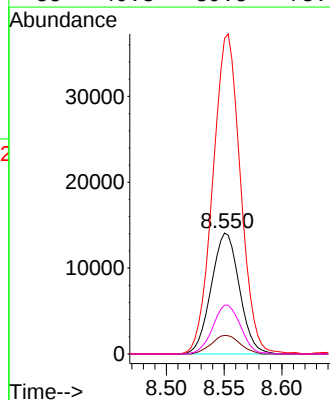
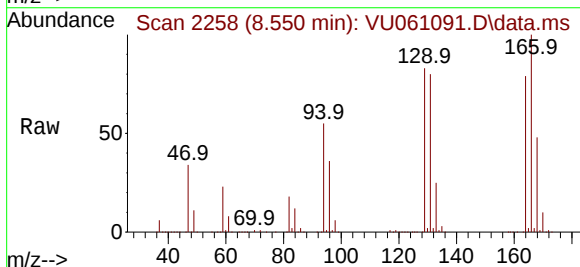
Ion Ratio Lower Upper

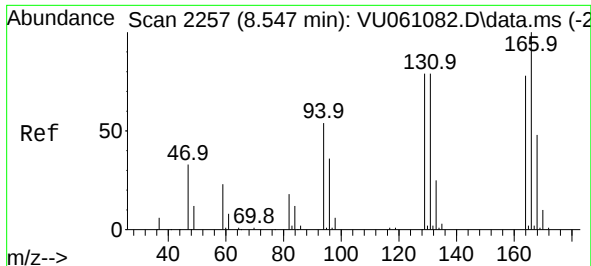
97 100

99 15.3 42.3 78.5#

83 260.7 61.7 114.5#

85 40.3 39.5 73.3





#47

Tetrachloroethene

Concen: 289.035 ug/L

RT: 8.553 min Scan# 2259

Delta R.T. 0.007 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 2380270

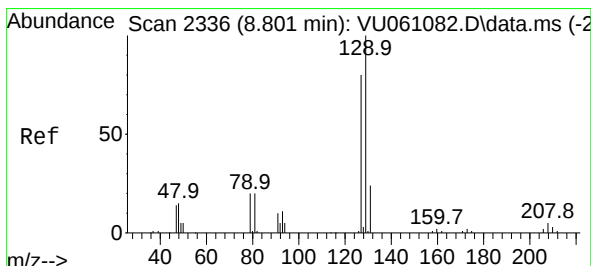
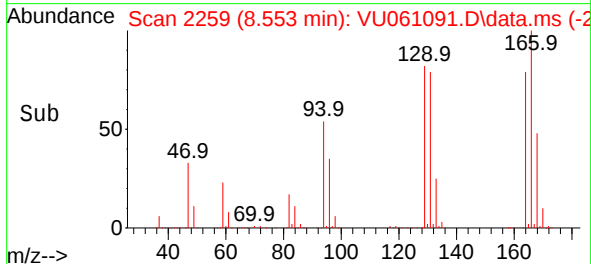
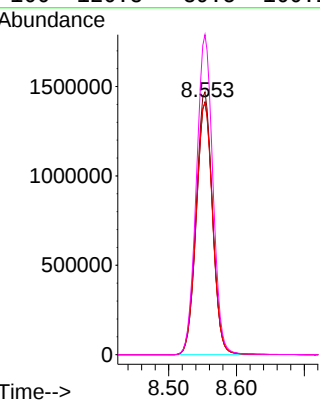
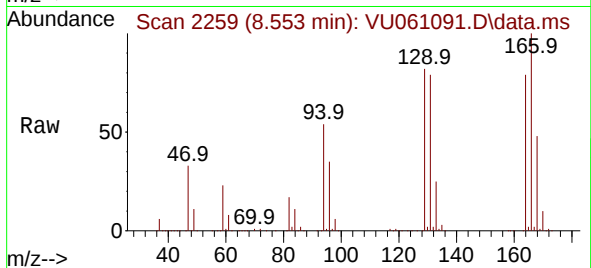
Ion Ratio Lower Upper

164 100

129 104.1 67.3 124.9

131 99.9 65.4 121.4

166 126.8 89.5 166.1



#49

Dibromochloromethane

Concen: 259.797 ug/L

RT: 8.553 min Scan# 2259

Delta R.T. -0.247 min

Lab File: VU061091.D

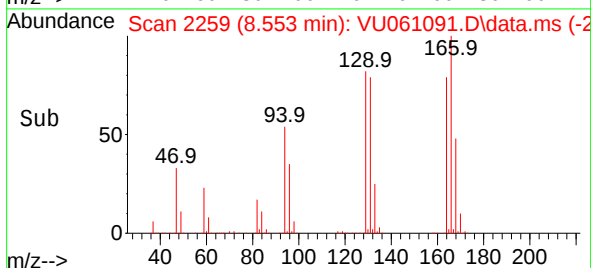
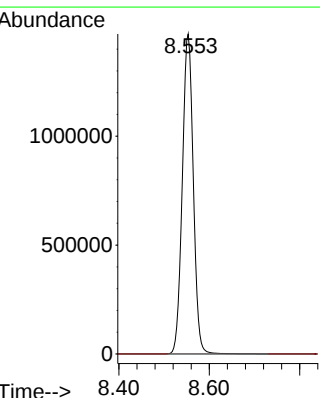
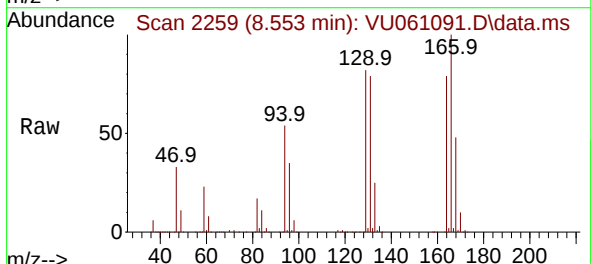
Acq: 10 Oct 2024 15:59

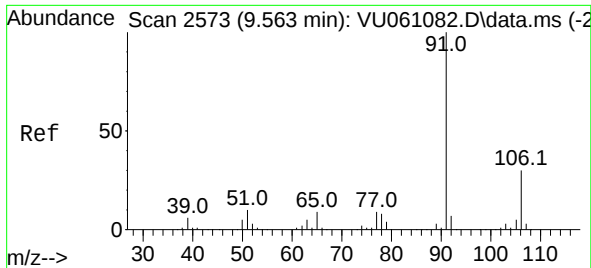
Tgt Ion:129 Resp: 2464282

Ion Ratio Lower Upper

129 100

127 0.0 56.1 104.1#

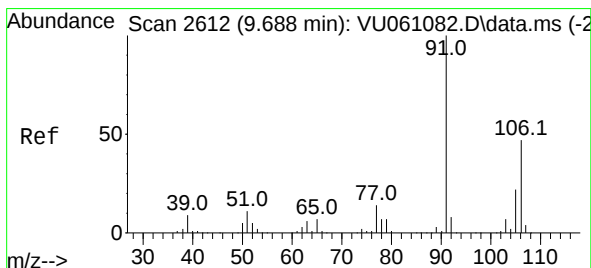
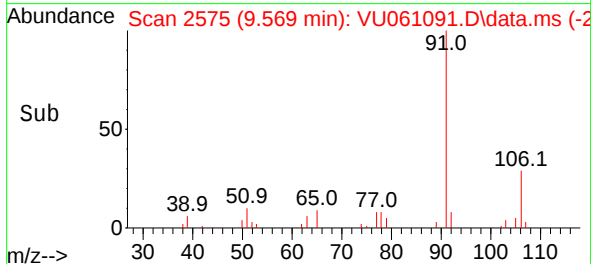
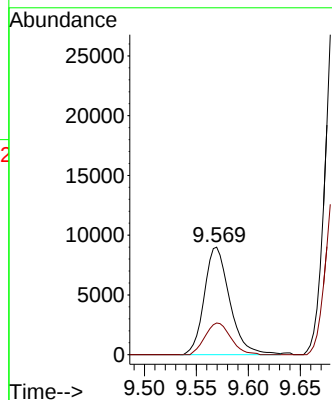
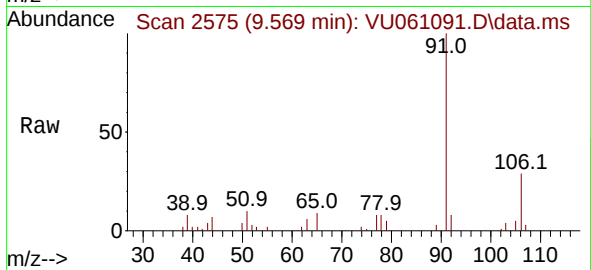




#52
Ethylbenzene
Concen: 0.272 ug/L
RT: 9.569 min Scan# 2573
Delta R.T. 0.007 min
Lab File: VU061091.D
Acq: 10 Oct 2024 15:59

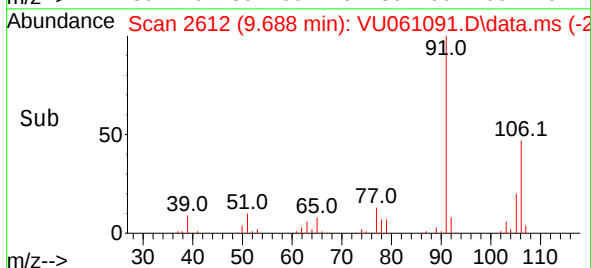
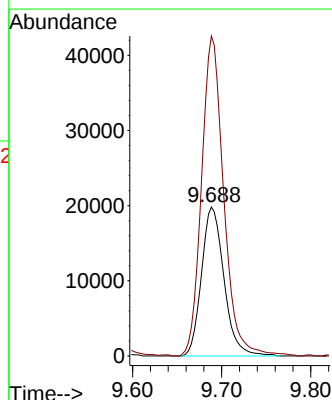
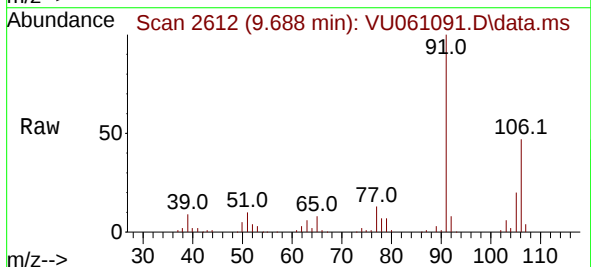
Instrument :
MSVOA_U
ClientSampleId :

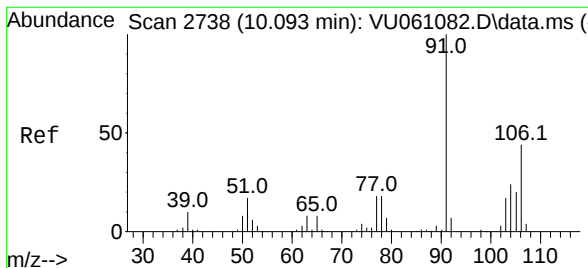
Tgt Ion: 91 Resp: 15328
Ion Ratio Lower Upper
91 100
106 29.4 21.8 40.6



#53
m,p-Xylene
Concen: 1.689 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. 0.000 min
Lab File: VU061091.D
Acq: 10 Oct 2024 15:59

Tgt Ion:106 Resp: 34716
Ion Ratio Lower Upper
106 100
91 214.7 139.7 259.4





#54

o-Xylene

Concen: 0.790 ug/L

RT: 10.097 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

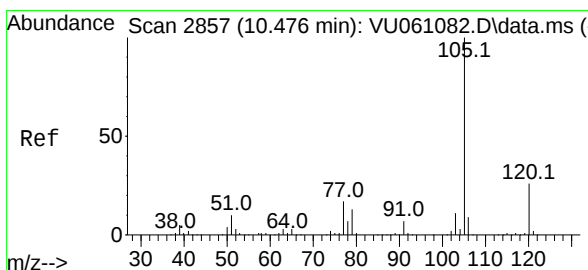
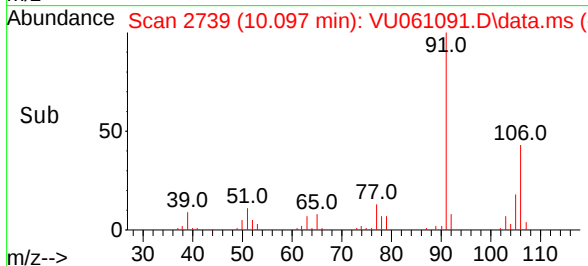
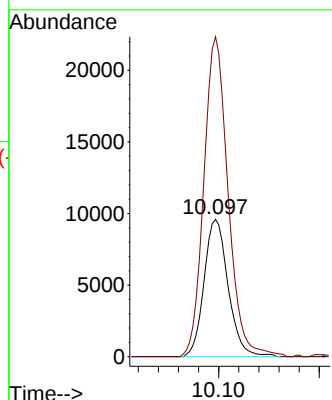
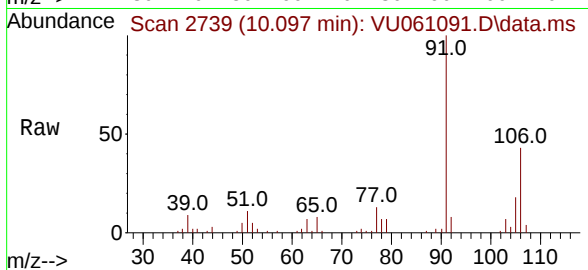
ClientSampleId :

Tgt Ion:106 Resp: 15974

Ion Ratio Lower Upper

106 100

91 233.0 148.6 276.0



#60

Isopropylbenzene

Concen: 0.234 ug/L

RT: 11.286 min Scan# 3109

Delta R.T. 0.810 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

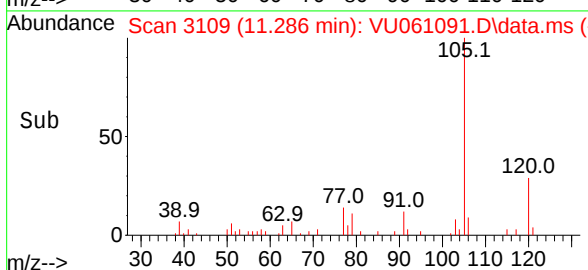
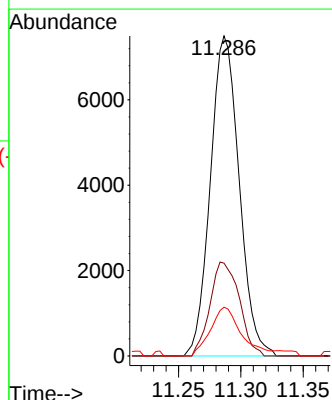
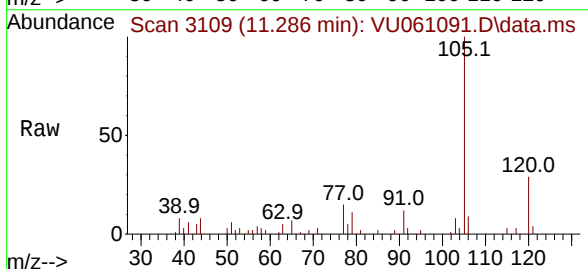
Tgt Ion:105 Resp: 12059

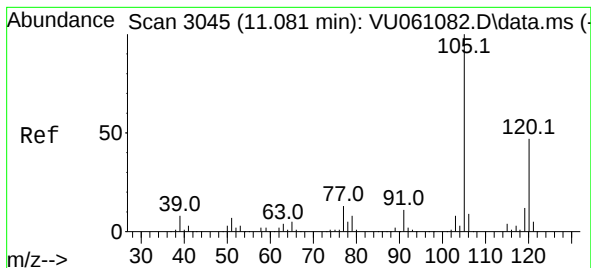
Ion Ratio Lower Upper

105 100

120 29.8 21.5 32.3

77 16.3 12.6 18.8





#62

1,3,5-Trimethylbenzene

Concen: 0.437 ug/L

RT: 11.084 min Scan# 3045

Delta R.T. 0.003 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

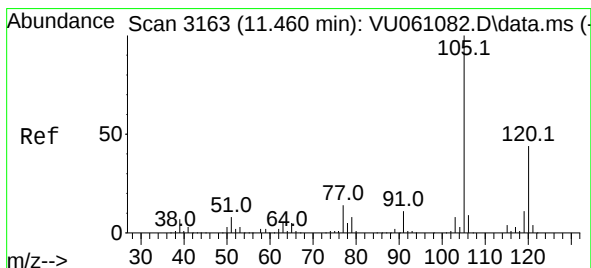
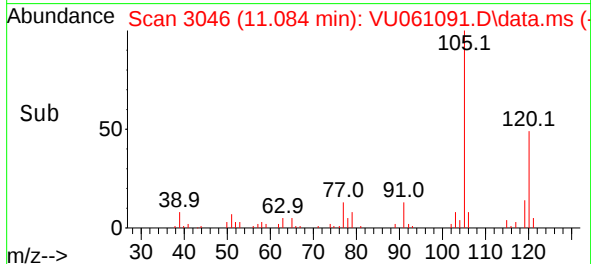
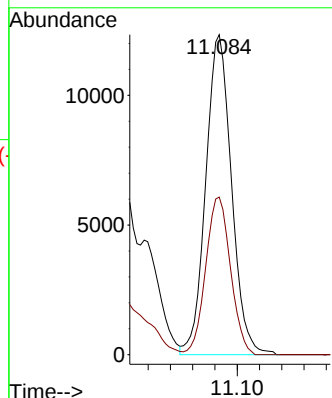
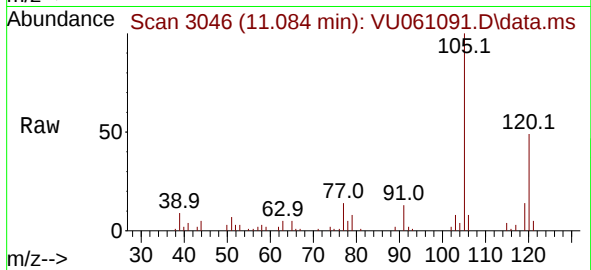
ClientSampleId :

Tgt Ion:105 Resp: 19798

Ion Ratio Lower Upper

105 100

120 47.5 38.5 57.7



#63

1,2,4-Trimethylbenzene

Concen: 0.733 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. 0.003 min

Lab File: VU061091.D

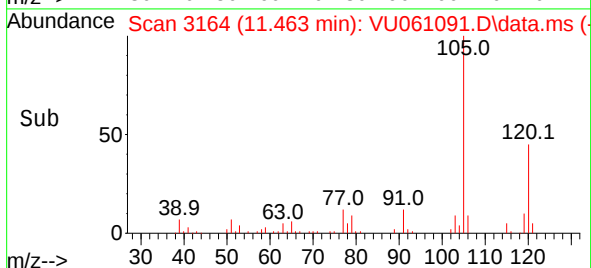
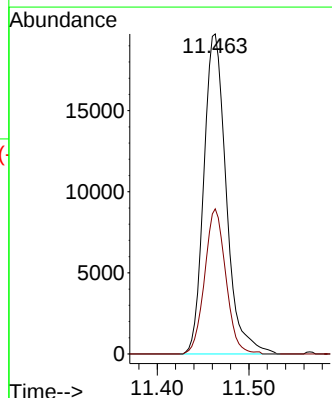
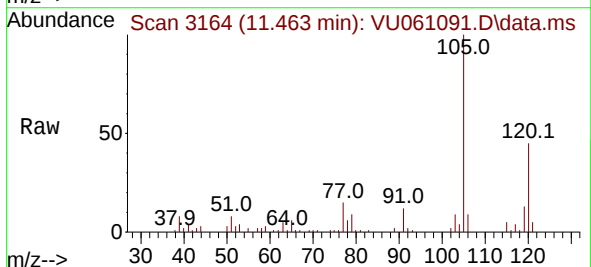
Acq: 10 Oct 2024 15:59

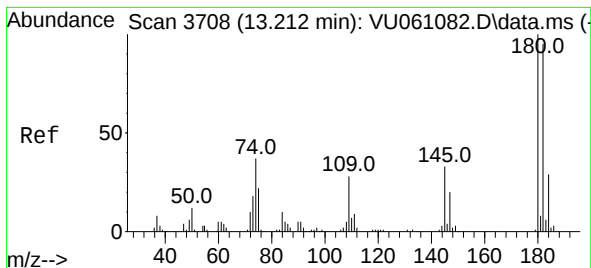
Tgt Ion:105 Resp: 33529

Ion Ratio Lower Upper

105 100

120 42.9 36.1 54.1





#69

1,3,5-Trichlorobenzene

Concen: 0.230 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.624 min

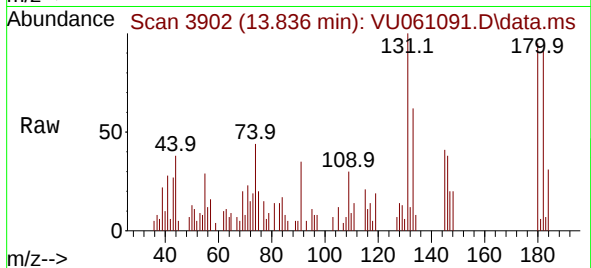
Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 3576

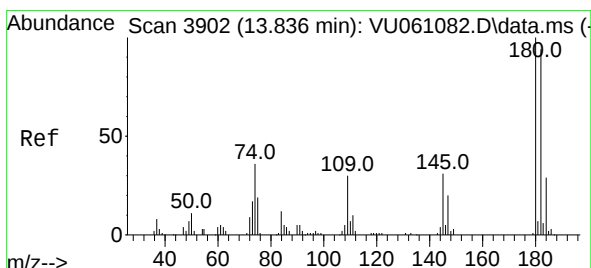
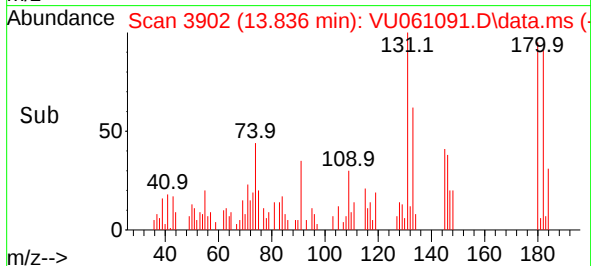
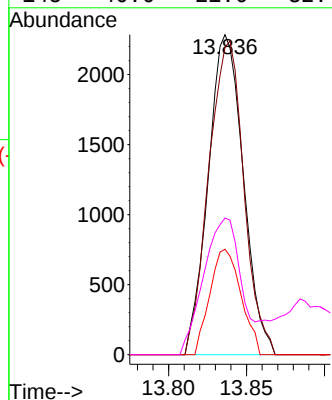
Ion Ratio Lower Upper

180 100

182 97.9 74.5 111.7

184 29.2 23.2 34.8

145 46.6 21.6 32.4#



#70

1,2,4-trichlorobenzene

Concen: 0.301 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

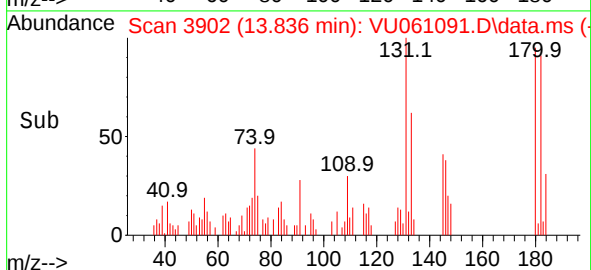
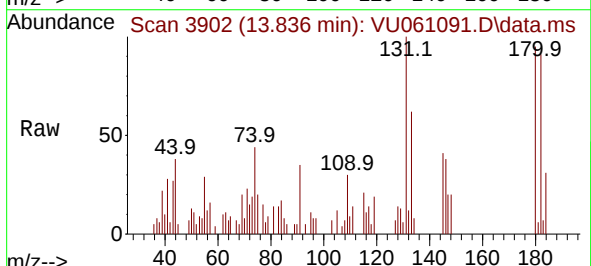
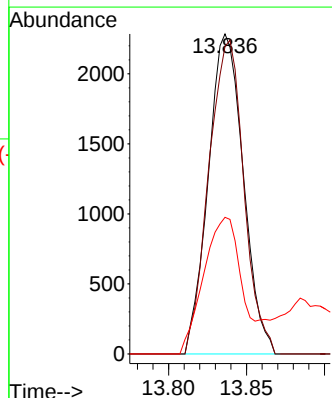
Tgt Ion:180 Resp: 3576

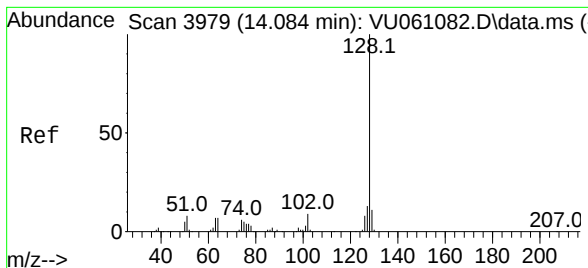
Ion Ratio Lower Upper

180 100

182 97.9 77.4 116.2

145 46.6 22.9 34.3#





#71

Naphthalene

Concen: 13.859 ug/L

RT: 14.077 min Scan# 3979

Delta R.T. -0.006 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA_U

ClientSampleId :

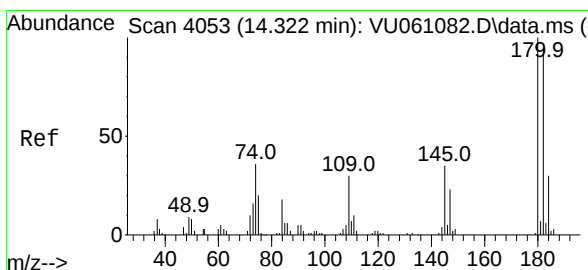
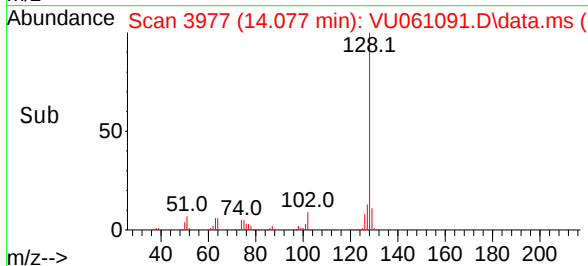
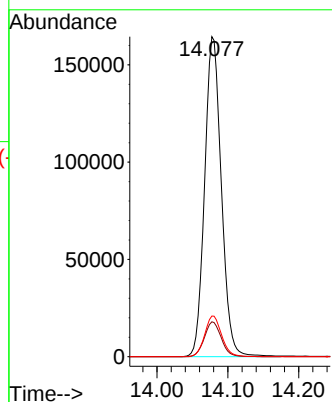
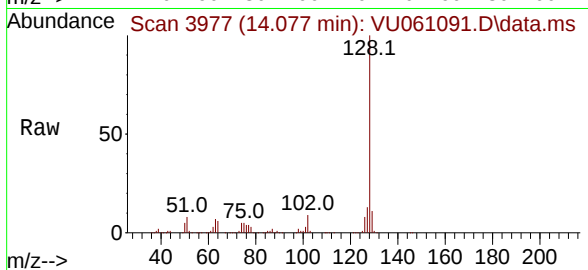
Tgt Ion:128 Resp: 269277

Ion Ratio Lower Upper

128 100

129 11.0 8.3 12.5

127 12.9 10.7 16.1



#72

1,2,3-Trichlorobenzene

Concen: 0.159 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. 0.003 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Tgt Ion:180 Resp: 1578

Ion Ratio Lower Upper

180 100

182 88.8 75.7 113.5

145 31.3 23.5 35.3

