

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU013025\
 Data File : VU063104.D
 Acq On : 30 Jan 2025 17:36
 Operator : MD/SY
 Sample : Q1148-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 XA179

Quant Time: Jan 31 07:53:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM013025WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jan 31 07:44:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.235	114	148927	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.405	117	146841	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.801	152	77354	50.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	55512	51.163	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	= 102.320%	
7) Chloroethane-d5	1.895	69	35992	60.728	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	= 121.460%	
11) 1,1-Dichloroethene-d2	2.557	63	112933	59.579	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 119.160%	
21) 2-Butanone-d5	4.605	46	77671	110.913	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	= 110.910%	
24) Chloroform-d	5.049	84	95766	47.950	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 95.900%	
26) 1,2-Dichloroethane-d4	5.685	65	58024	51.077	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 102.160%	
32) Benzene-d6	5.711	84	203718	46.583	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 93.160%	
36) 1,2-Dichloropropane-d6	6.676	67	65783	45.969	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	= 91.940%	
41) Toluene-d8	7.885	98	182239	46.026	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 92.060%	
43) trans-1,3-Dichloroprop...	8.168	79	30539	46.387	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 92.780%	
47) 2-Hexanone-d5	8.621	63	57248	93.337	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	= 93.340%	
56) 1,1,2,2-Tetrachloroeth...	10.743	84	103561	49.342	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	= 98.680%	
66) 1,2-Dichlorobenzene-d4	12.183	152	74032	49.694	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 99.380%	

Target Compounds					Qvalue	
9) Trichlorofluoromethane	2.126	101	60026	40.843	ug/L	98
12) 1,1-Dichloroethene	2.566	96	73524	72.422	ug/L	92
13) Acetone	2.611	43	82603	188.621	ug/L	95
17) trans-1,2-Dichloroethene	3.338	96	60887	58.660	ug/L	96
18) Methyl tert-butyl Ether	3.348	73	371236	115.835	ug/L	98
19) 1,1-Dichloroethane	3.853	63	28647	15.064	ug/L	96
20) cis-1,2-Dichloroethene	4.650	96	100040	84.888	ug/L	98
27) 1,2-Dichloroethane	5.779	62	56116	39.992	ug/L	97
30) 1,1,1-Trichloroethane	5.300	97	99256	56.078	ug/L	98
31) Carbon tetrachloride	5.512	117	27625	18.082	ug/L	99
33) Benzene	5.759	78	339982	72.067	ug/L	100
34) Trichloroethene	6.528	95	95313	74.678	ug/L	96
37) 1,2-Dichloropropane	6.779	63	47791	36.899	ug/L	99
40) 4-Methyl-2-pentanone	7.775	43	131940	85.295	ug/L	99
42) Toluene	7.959	91	243122	48.868	ug/L	98
44) trans-1,3-Dichloropropene	8.196	75	146294	81.394	ug/L	98
45) 1,1,2-Trichloroethane	8.386	97	82895	67.239	ug/L	98
46) Tetrachloroethene	8.541	164	36401	40.364	ug/L	94
49) Dibromochloromethane	8.798	129	126548	101.299	ug/L	100

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 QLast Update : Fri Jan 31 07:44:25 2025
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

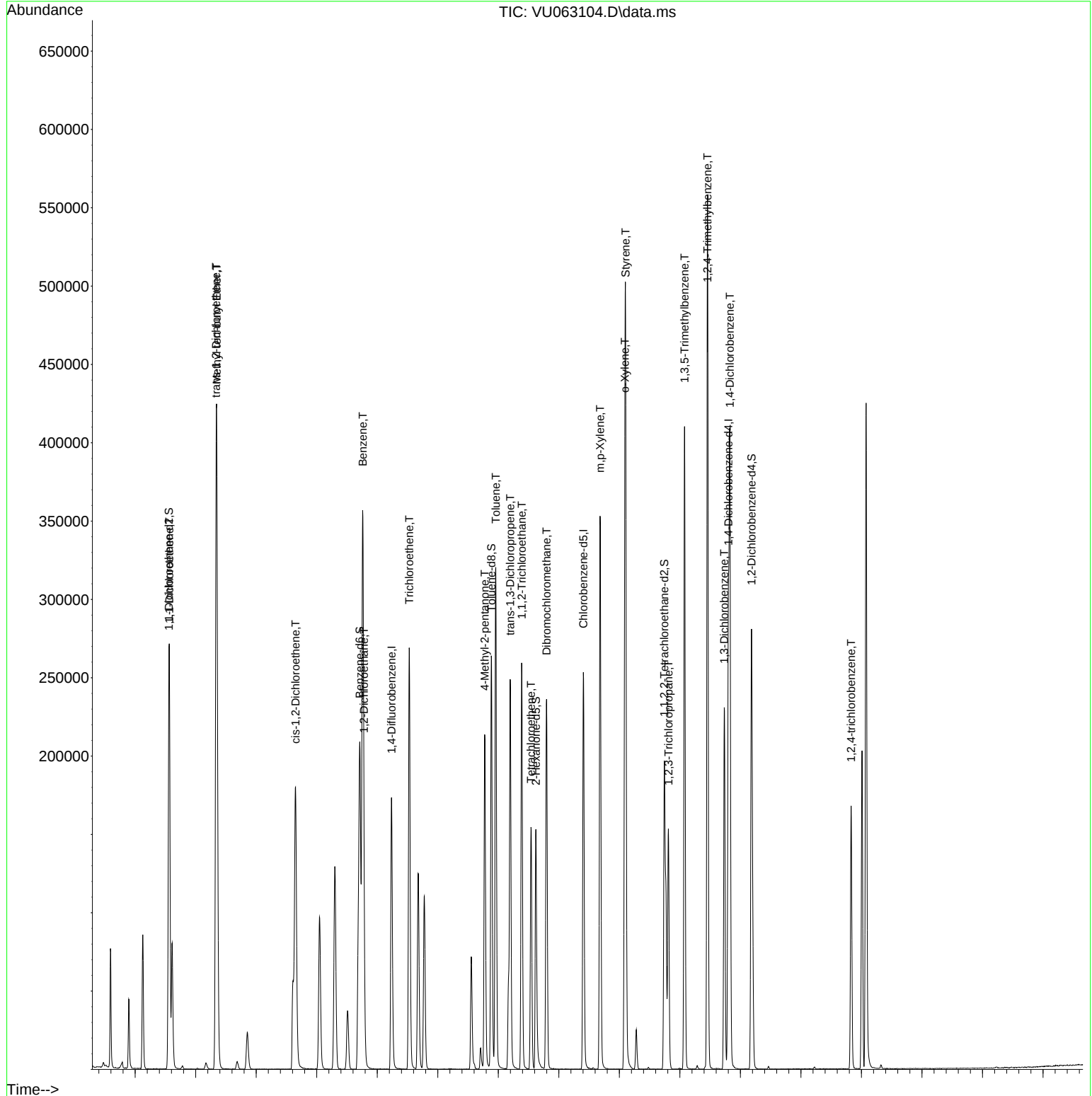
53) m,p-Xylene	9.682	106	103580	51.521	ug/L	99
54) o-Xylene	10.090	106	62770	30.983	ug/L	97
55) Styrene	10.103	104	203756	59.186	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.769	83	60013	27.570	ug/L	99
59) Bromoform	10.280	173	11786	11.376	ug/L	96
60) 1,2,3-Trichloropropane	10.811	75	70430	42.709	ug/L	98
62) 1,3,5-Trimethylbenzene	11.077	105	229324	53.108	ug/L	100
63) 1,2,4-Trimethylbenzene	11.457	105	320505	74.642	ug/L	100
64) 1,3-Dichlorobenzene	11.733	146	101164	40.006	ug/L	98
65) 1,4-Dichlorobenzene	11.827	146	162792	62.124	ug/L	100
67) 1,2-Dichlorobenzene	12.203	146	34997	14.029	ug/L	98
70) 1,2,4-trichlorobenzene	13.830	180	52691	35.981	ug/L	98

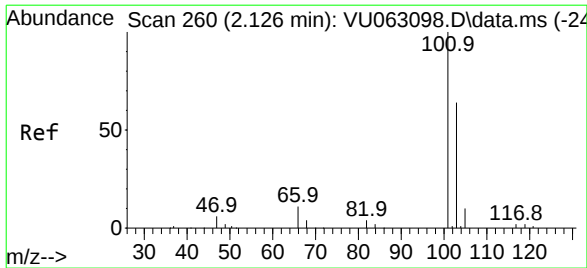
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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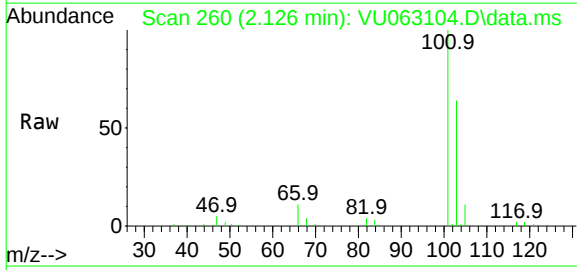
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Quant Title : VOC Analysis
QLast Update : Fri Jan 31 07:44:25 2025
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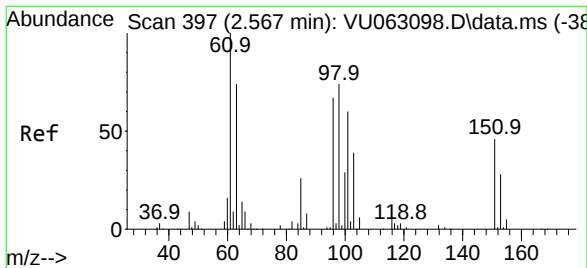
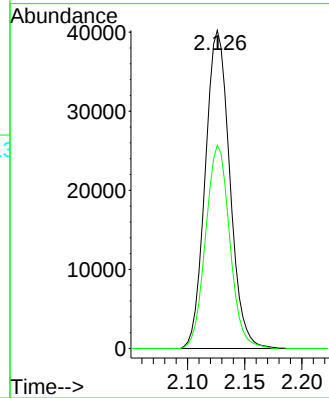
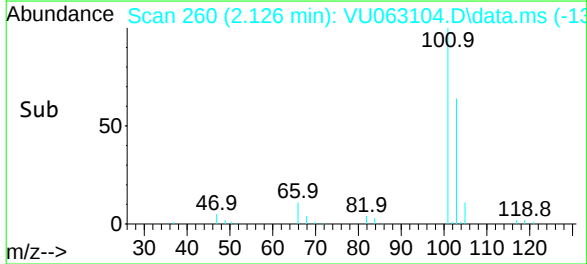


#9
 Trichlorofluoromethane
 Concen: 40.843 ug/L
 RT: 2.126 min Scan# 260
 Delta R.T. -0.000 min
 Lab File: VU063104.D
 Acq: 30 Jan 2025 17:36

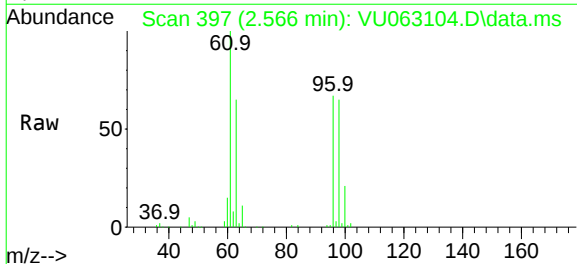
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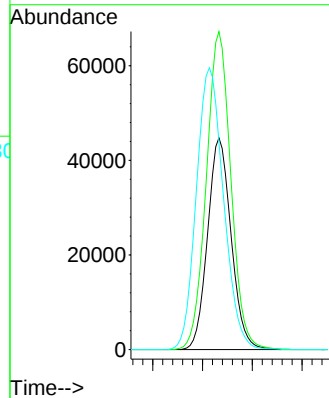
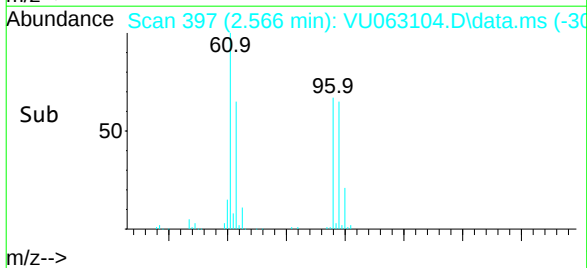
Tgt Ion:101 Resp: 60026
 Ion Ratio Lower Upper
 101 100
 103 62.9 51.4 77.2

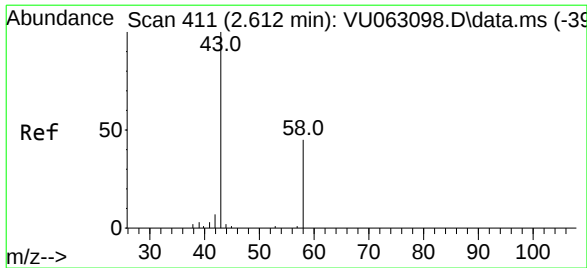


#12
 1,1-Dichloroethene
 Concen: 72.422 ug/L
 RT: 2.566 min Scan# 397
 Delta R.T. -0.000 min
 Lab File: VU063104.D
 Acq: 30 Jan 2025 17:36



Tgt Ion: 96 Resp: 73524
 Ion Ratio Lower Upper
 96 100
 61 150.2 104.2 193.4
 63 98.0 81.5 151.5





#13

Acetone

Concen: 188.621 ug/L

RT: 2.611 min Scan# 411

Delta R.T. -0.000 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

Instrument :

MSVOA_U

ClientSampleId :

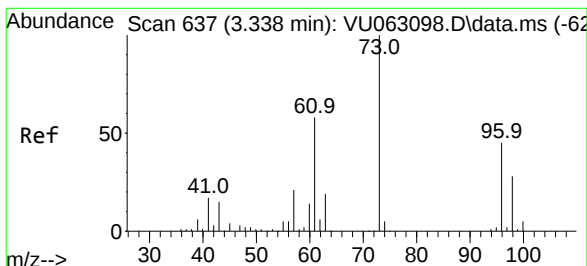
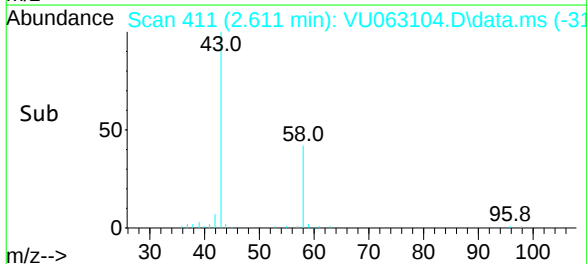
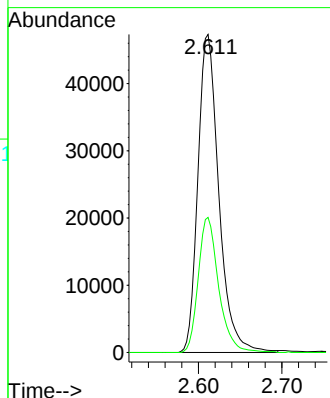
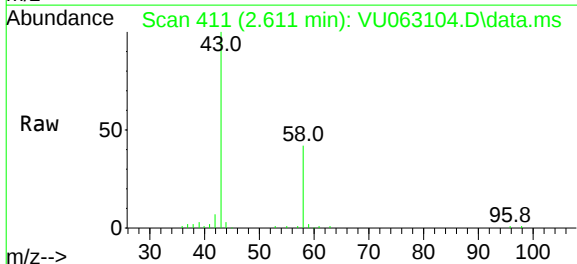
XA179

Tgt Ion: 43 Resp: 82603

Ion Ratio Lower Upper

43 100

58 41.4 0.0 88.8



#17

trans-1,2-Dichloroethene

Concen: 58.660 ug/L

RT: 3.338 min Scan# 637

Delta R.T. -0.000 min

Lab File: VU063104.D

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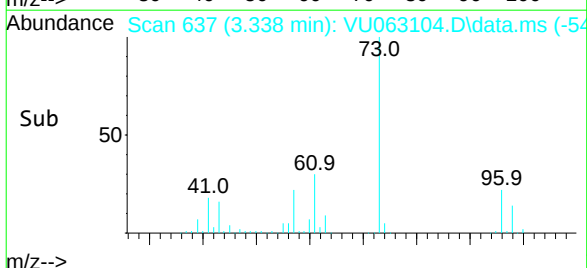
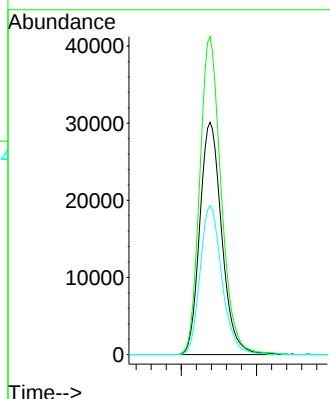
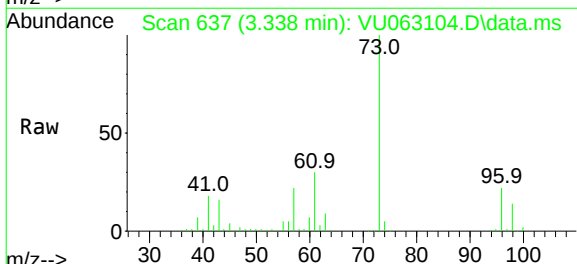
Tgt Ion: 96 Resp: 60887

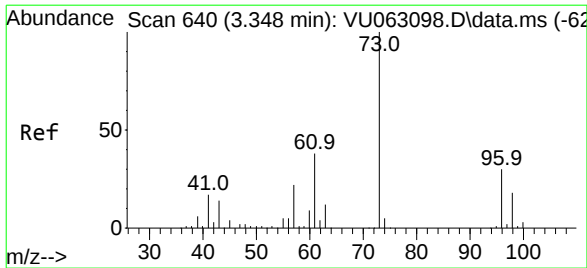
Ion Ratio Lower Upper

96 100

61 136.9 91.1 169.3

98 64.1 44.0 81.8

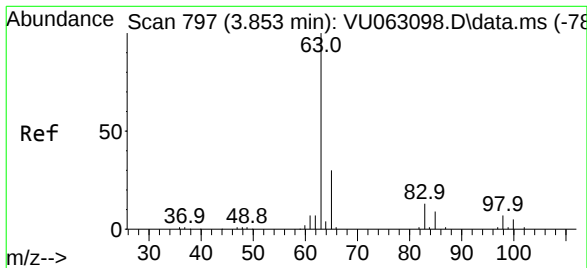
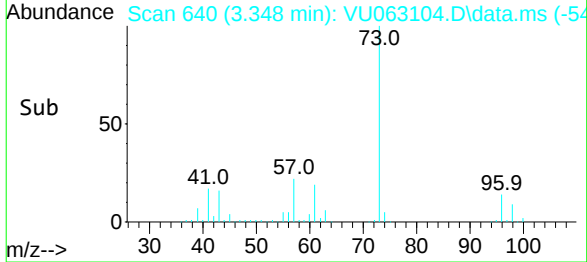
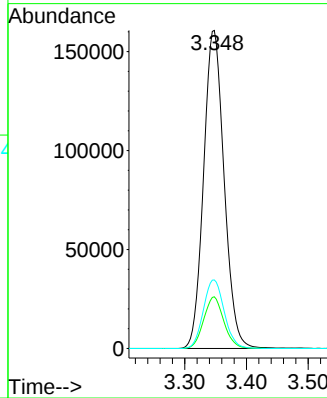
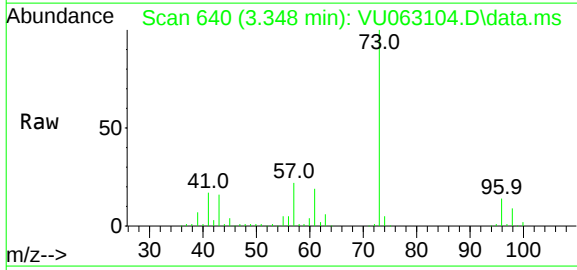




#18
Methyl tert-butyl Ether
Concen: 115.835 ug/L
RT: 3.348 min Scan# 640
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

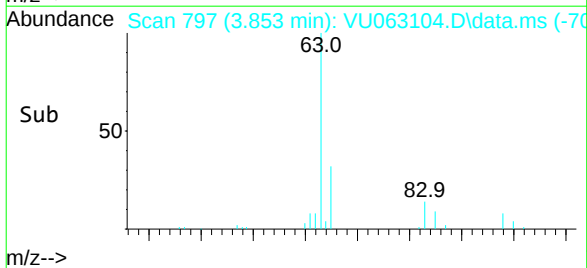
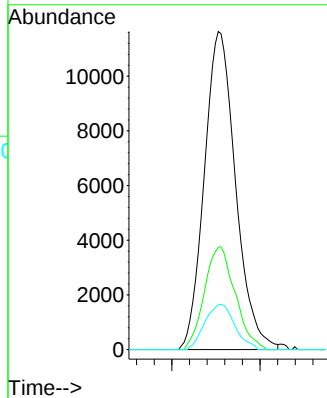
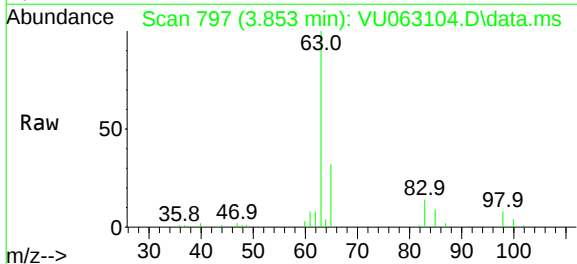
Instrument :
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ClientSampleId :
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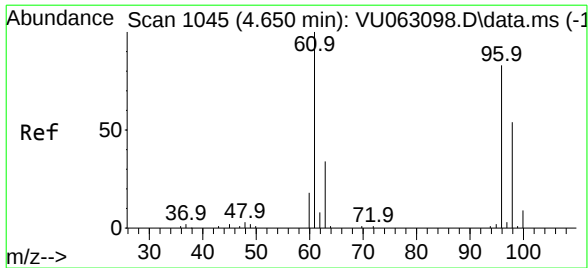
Tgt Ion: 73 Resp: 371236
Ion Ratio Lower Upper
73 100
43 15.9 11.4 17.2
57 21.9 17.2 25.8



#19
1,1-Dichloroethane
Concen: 15.064 ug/L
RT: 3.853 min Scan# 797
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

Tgt Ion: 63 Resp: 28647
Ion Ratio Lower Upper
63 100
65 32.2 20.9 38.9
83 14.1 9.3 17.3

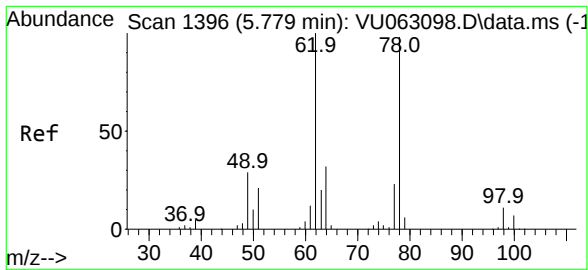
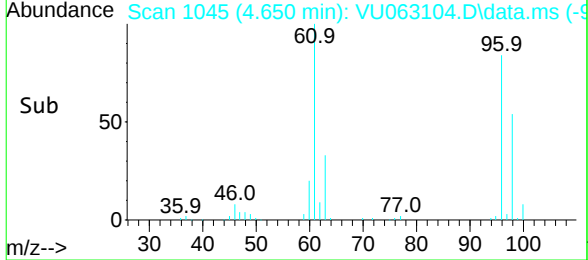
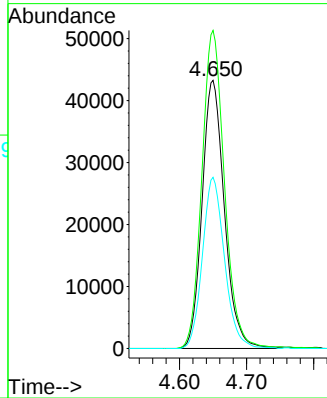
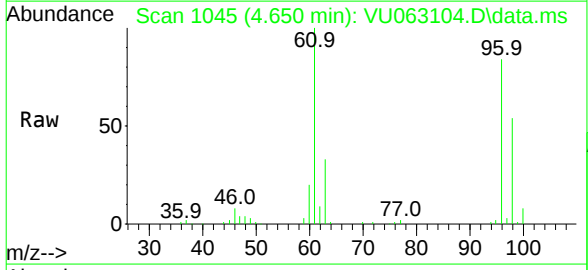




#20
cis-1,2-Dichloroethene
Concen: 84.888 ug/L
RT: 4.650 min Scan# 1045
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

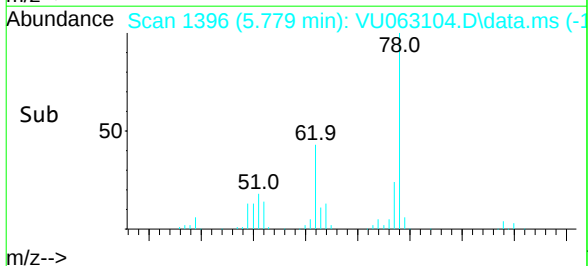
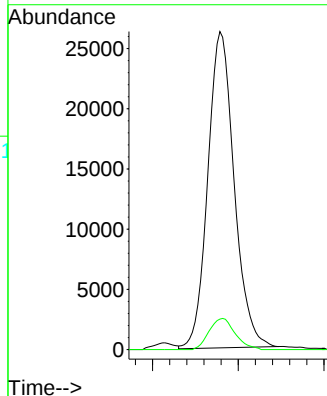
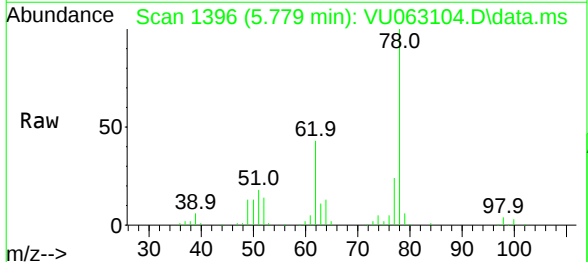
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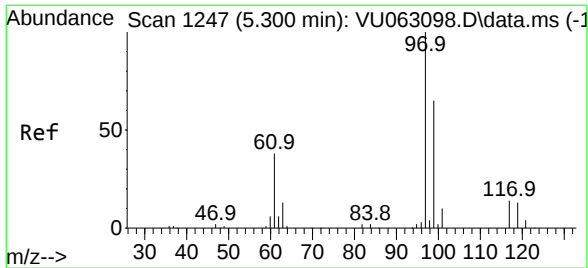
Tgt Ion: 96 Resp: 100040
Ion Ratio Lower Upper
96 100
61 118.6 84.4 156.8
98 63.8 46.0 85.4



#27
1,2-Dichloroethane
Concen: 39.992 ug/L
RT: 5.779 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

Tgt Ion: 62 Resp: 56116
Ion Ratio Lower Upper
62 100
98 9.6 8.5 12.7

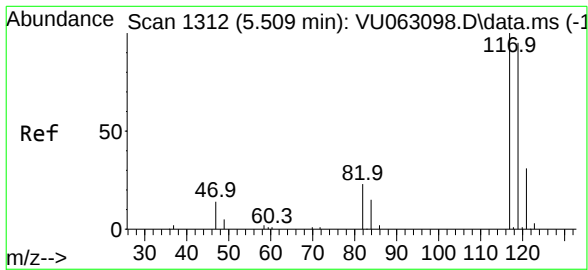
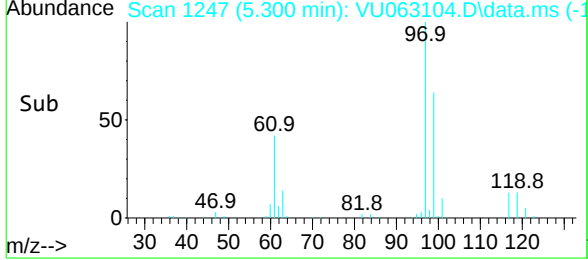
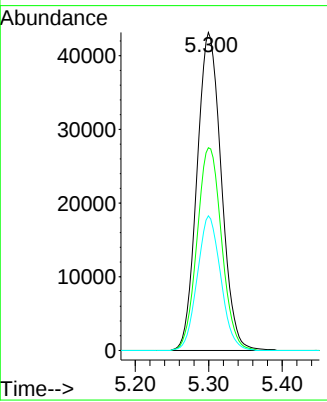
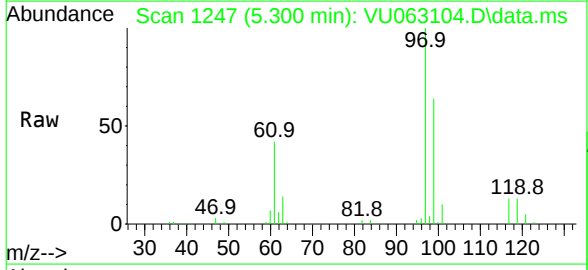




#30
 1,1,1-Trichloroethane
 Concen: 56.078 ug/L
 RT: 5.300 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VU063104.D
 Acq: 30 Jan 2025 17:36

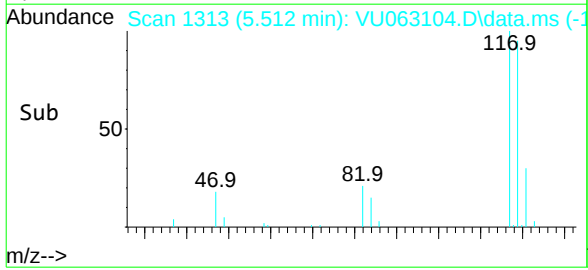
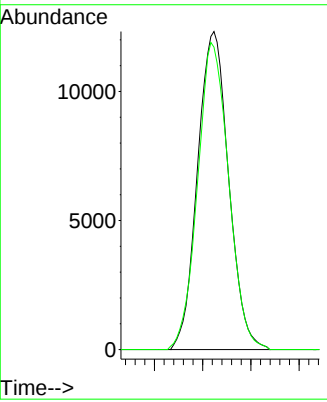
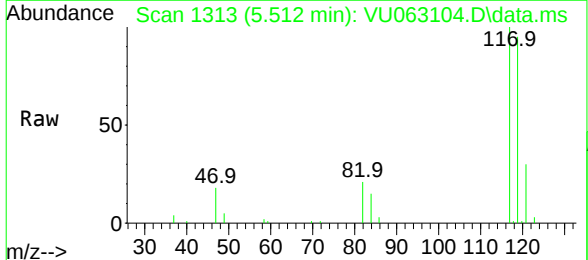
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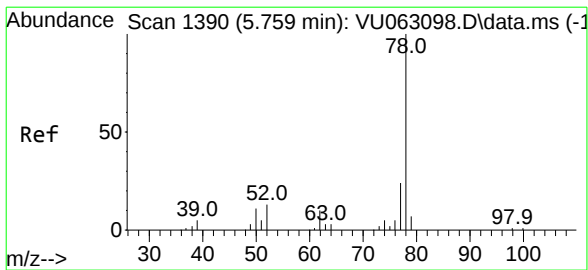
Tgt Ion:	97	Resp:	99256
Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.2	78.4
61	40.9	31.5	47.3



#31
 Carbon tetrachloride
 Concen: 18.082 ug/L
 RT: 5.512 min Scan# 1313
 Delta R.T. 0.003 min
 Lab File: VU063104.D
 Acq: 30 Jan 2025 17:36

Tgt Ion:	117	Resp:	27625
Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.7	116.5

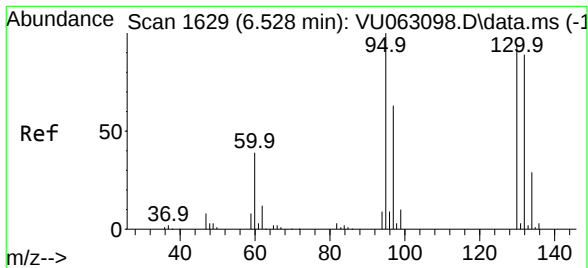
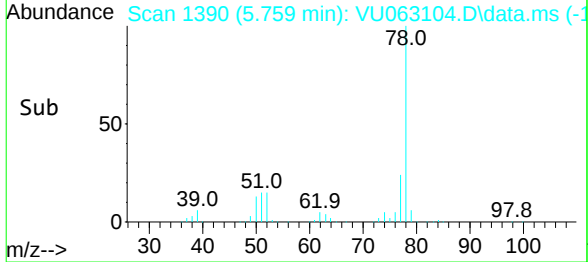
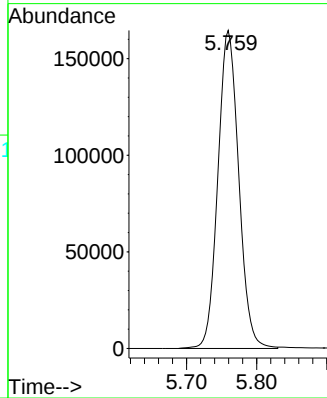
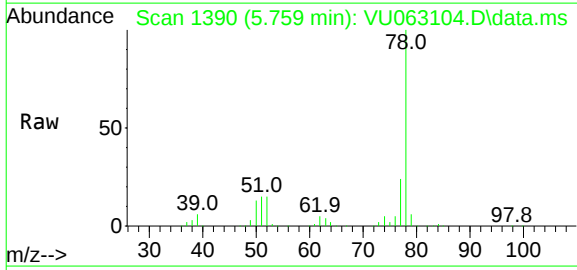




#33
Benzene
Concen: 72.067 ug/L
RT: 5.759 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

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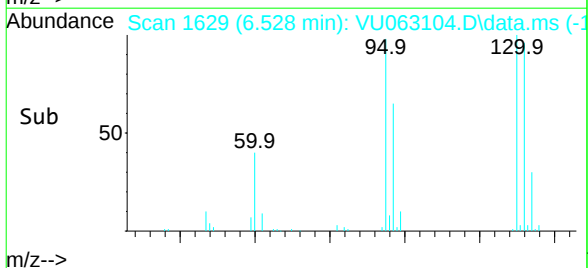
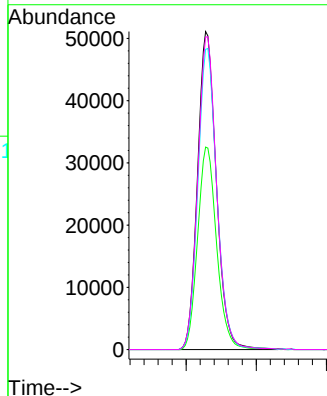
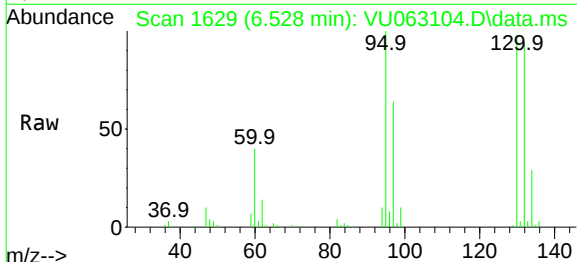
Tgt Ion: 78 Resp: 339982

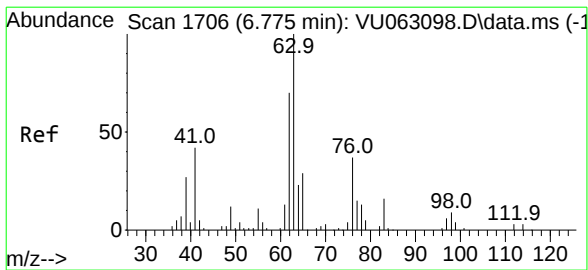


#34
Trichloroethene
Concen: 74.678 ug/L
RT: 6.528 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

Tgt Ion: 95 Resp: 95313

Ion	Ratio	Lower	Upper
95	100		
97	63.7	44.3	82.3
132	94.4	62.4	116.0
130	98.3	65.9	122.3

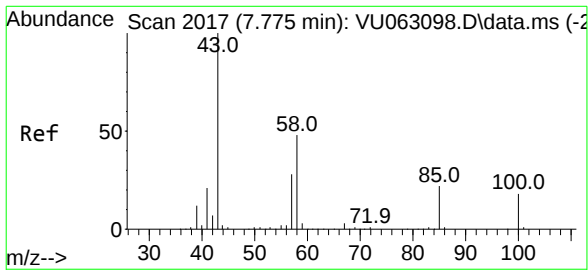
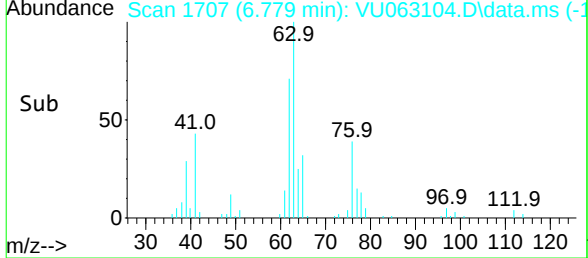
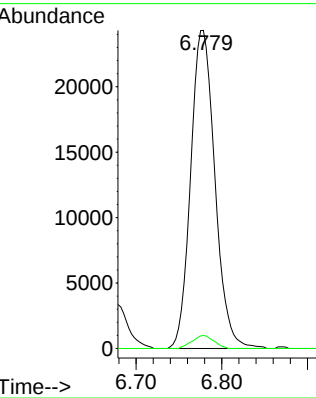
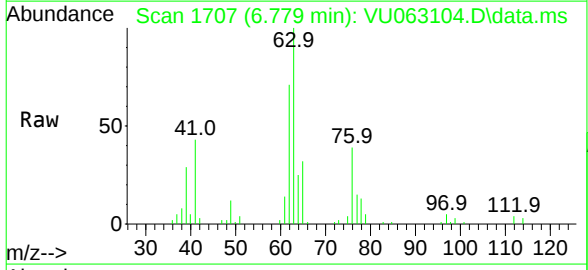




#37
 1,2-Dichloropropane
 Concen: 36.899 ug/L
 RT: 6.779 min Scan# 17
 Delta R.T. 0.003 min
 Lab File: VU063104.D
 Acq: 30 Jan 2025 17:36

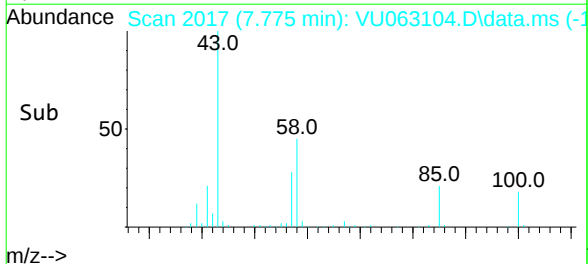
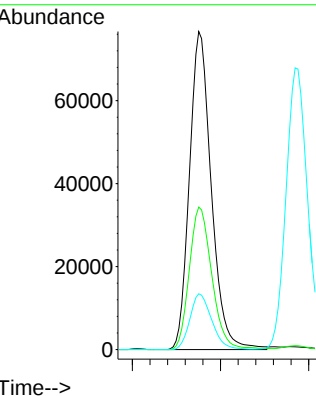
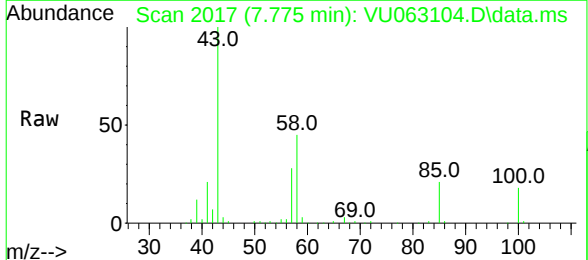
Instrument :
 MSVOA_U
 ClientSampleId :
 XA179

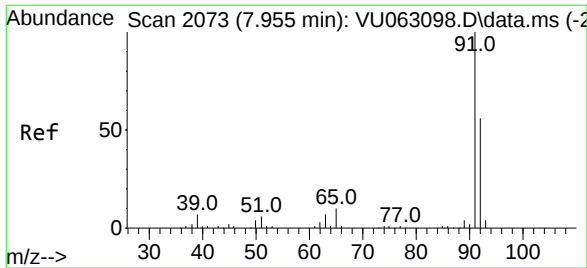
Tgt Ion: 63 Resp: 47791
 Ion Ratio Lower Upper
 63 100
 112 3.7 2.6 4.0



#40
 4-Methyl-2-pentanone
 Concen: 85.295 ug/L
 RT: 7.775 min Scan# 2017
 Delta R.T. -0.000 min
 Lab File: VU063104.D
 Acq: 30 Jan 2025 17:36

Tgt Ion: 43 Resp: 131940
 Ion Ratio Lower Upper
 43 100
 58 46.1 37.5 56.3
 100 17.5 14.3 21.5





#42

Toluene

Concen: 48.868 ug/L

RT: 7.959 min Scan# 2073

Delta R.T. 0.003 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

Instrument :

MSVOA_U

ClientSampleId :

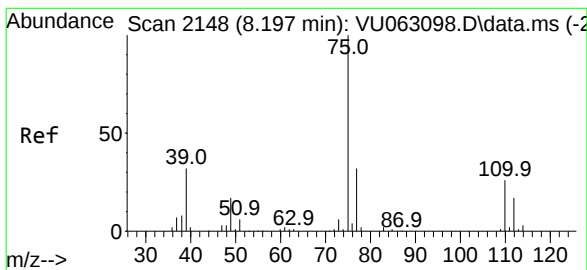
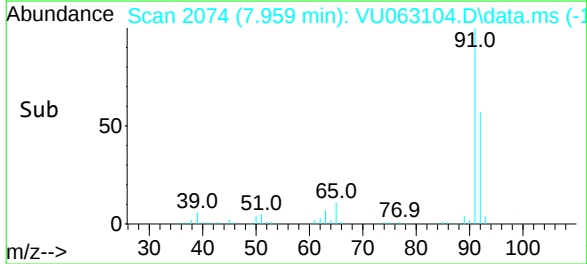
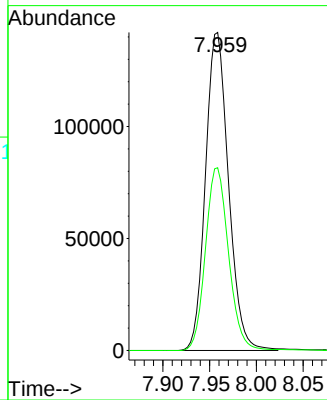
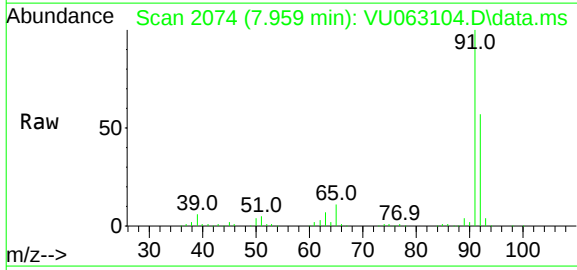
XA179

Tgt Ion: 91 Resp: 243122

Ion Ratio Lower Upper

91 100

92 57.5 39.3 73.1



#44

trans-1,3-Dichloropropene

Concen: 81.394 ug/L

RT: 8.196 min Scan# 2148

Delta R.T. -0.000 min

Lab File: VU063104.D

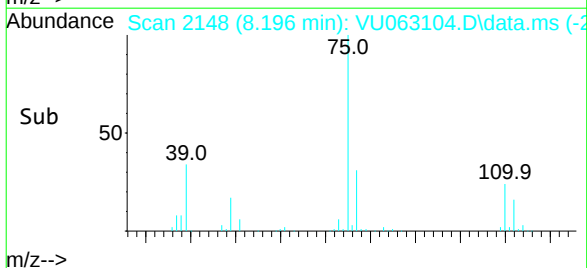
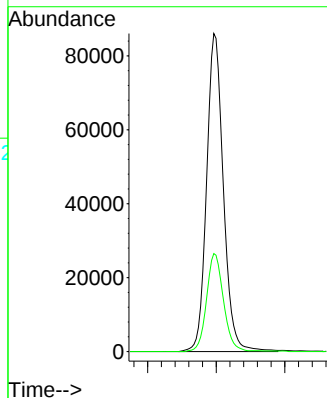
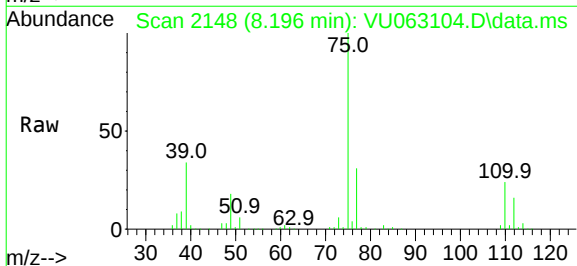
Acq: 30 Jan 2025 17:36

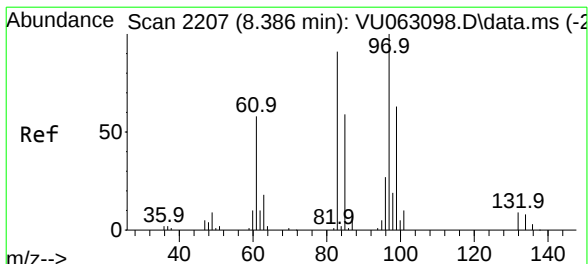
Tgt Ion: 75 Resp: 146294

Ion Ratio Lower Upper

75 100

77 30.8 22.3 41.3

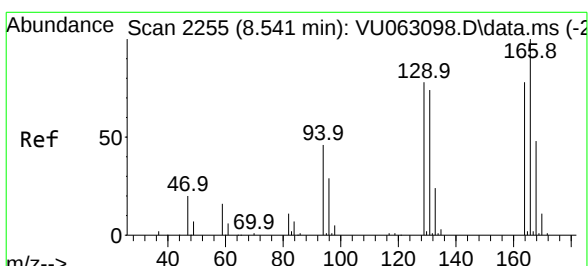
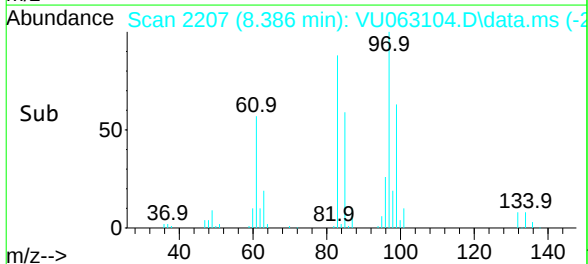
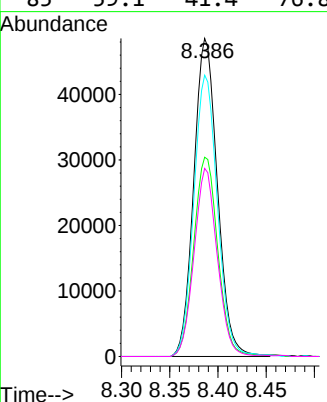
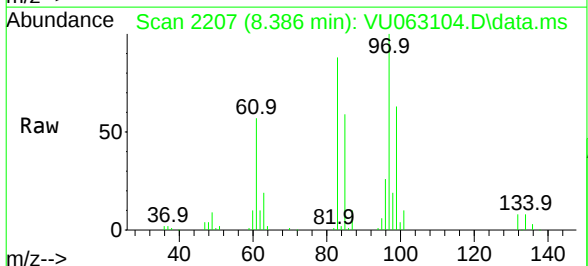




#45
1,1,2-Trichloroethane
Concen: 67.239 ug/L
RT: 8.386 min Scan# 2207
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

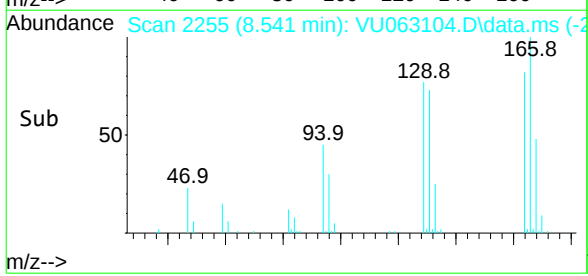
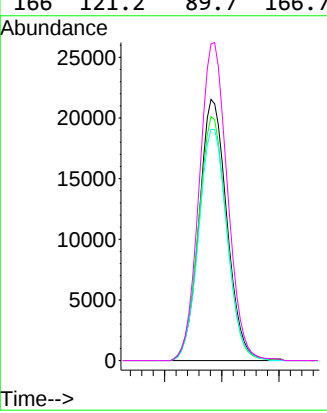
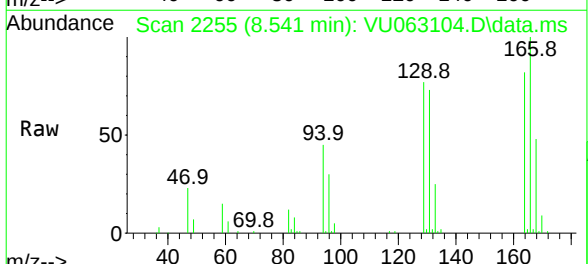
Instrument :
MSVOA_U
ClientSampleId :
XA179

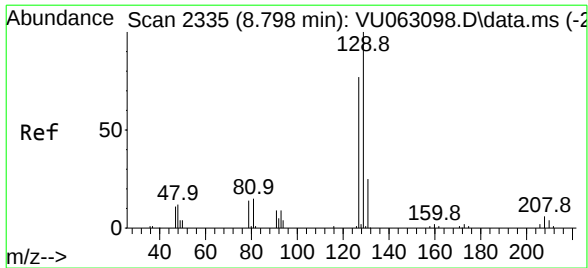
Tgt Ion:	97	Resp:	82895
Ion	Ratio	Lower	Upper
97	100		
99	62.6	44.2	82.2
83	88.4	64.0	118.8
85	59.1	41.4	76.8



#46
Tetrachloroethene
Concen: 40.364 ug/L
RT: 8.541 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

Tgt Ion:	164	Resp:	36401
Ion	Ratio	Lower	Upper
164	100		
129	93.4	69.9	129.7
131	88.5	66.3	123.1
166	121.2	89.7	166.7





#49

Dibromochloromethane

Concen: 101.299 ug/L

RT: 8.798 min Scan# 2335

Delta R.T. -0.000 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

Instrument :

MSVOA_U

ClientSampleId :

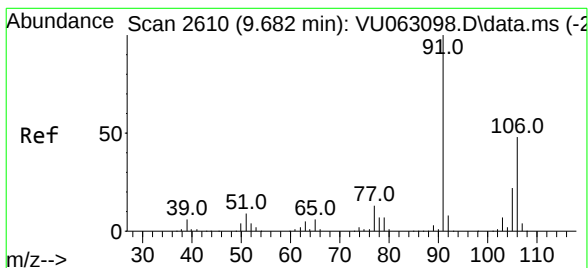
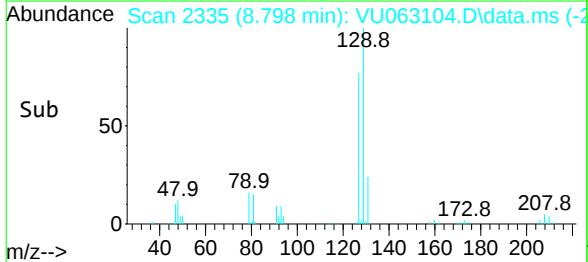
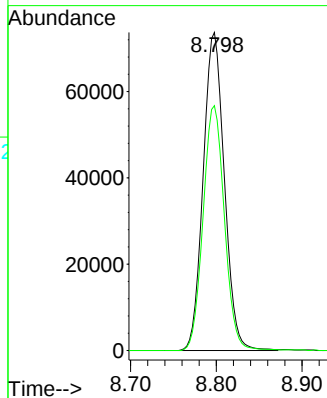
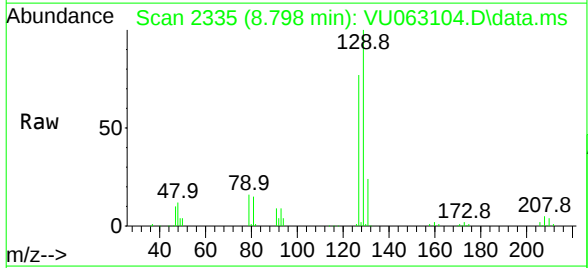
XA179

Tgt Ion:129 Resp: 126548

Ion Ratio Lower Upper

129 100

127 77.0 54.1 100.5



#53

m,p-Xylene

Concen: 51.521 ug/L

RT: 9.682 min Scan# 2610

Delta R.T. -0.000 min

Lab File: VU063104.D

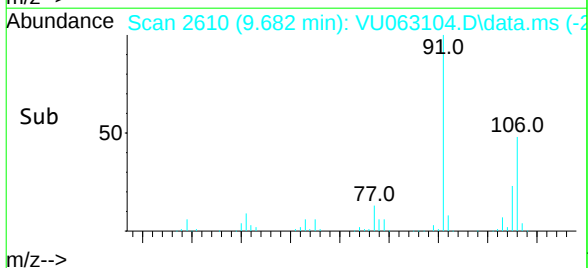
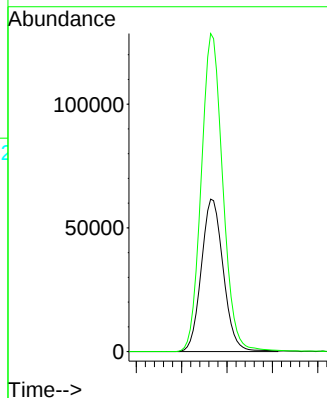
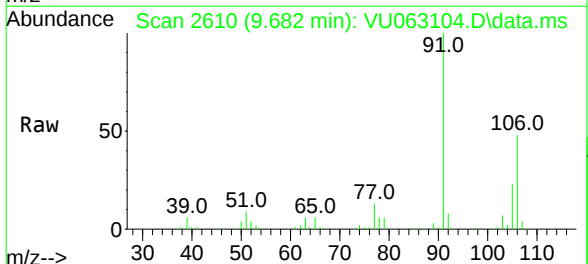
Acq: 30 Jan 2025 17:36

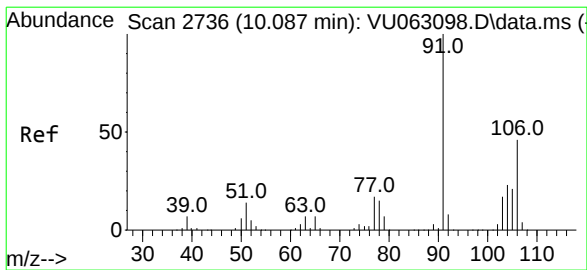
Tgt Ion:106 Resp: 103580

Ion Ratio Lower Upper

106 100

91 208.6 145.5 270.1





#54

o-Xylene

Concen: 30.983 ug/L

RT: 10.090 min Scan# 2736

Delta R.T. 0.003 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

Instrument :

MSVOA_U

ClientSampleId :

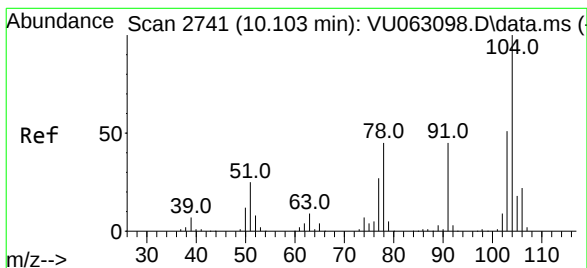
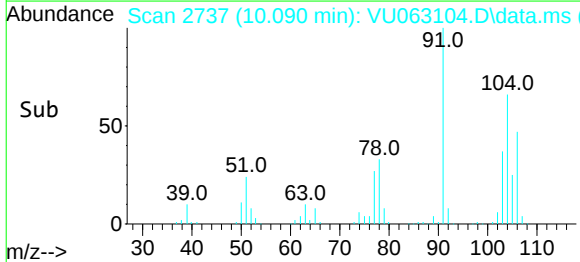
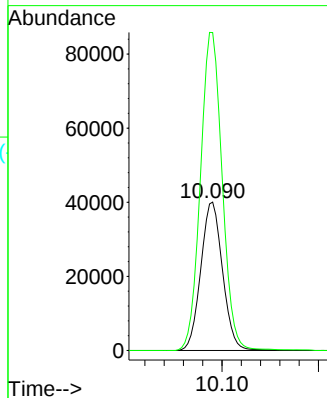
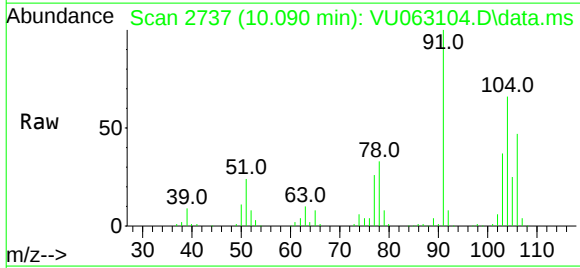
XA179

Tgt Ion:106 Resp: 62770

Ion Ratio Lower Upper

106 100

91 214.2 152.8 283.8



#55

Styrene

Concen: 59.186 ug/L

RT: 10.103 min Scan# 2741

Delta R.T. -0.000 min

Lab File: VU063104.D

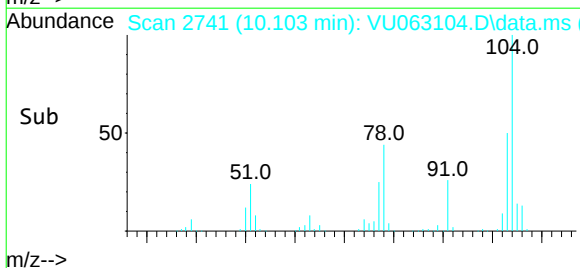
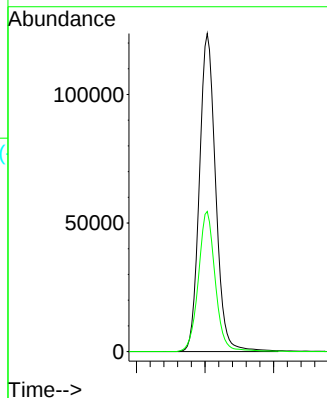
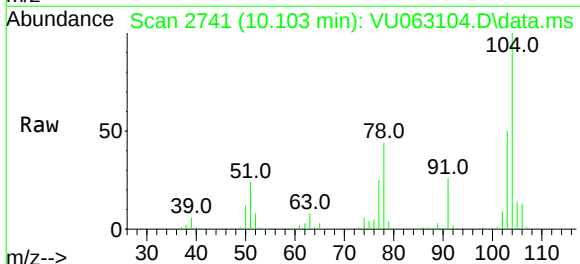
Acq: 30 Jan 2025 17:36

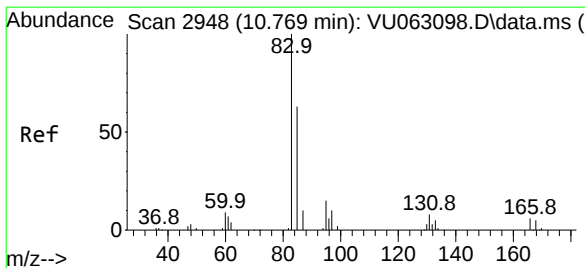
Tgt Ion:104 Resp: 203756

Ion Ratio Lower Upper

104 100

78 44.1 31.4 58.2

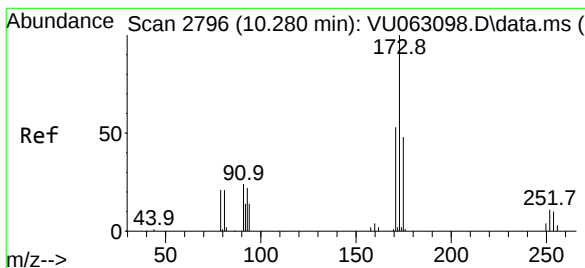
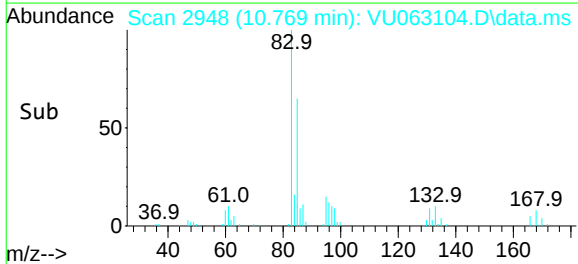
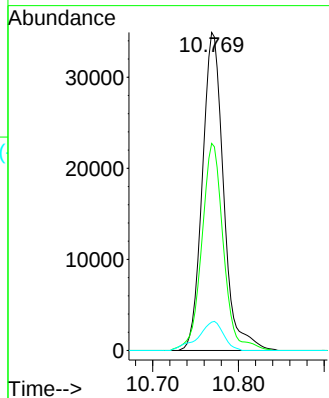
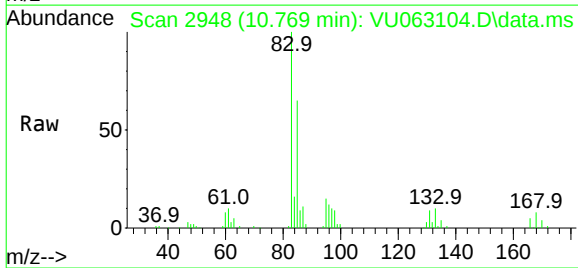




#57
1,1,2,2-Tetrachloroethane
Concen: 27.570 ug/L
RT: 10.769 min Scan# 2948
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

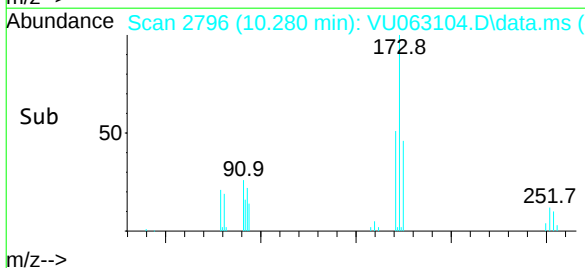
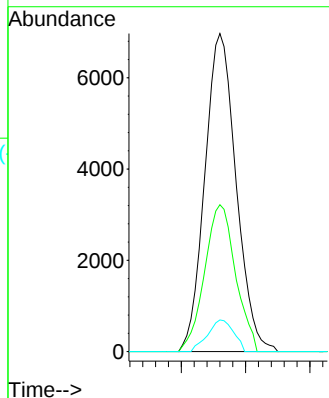
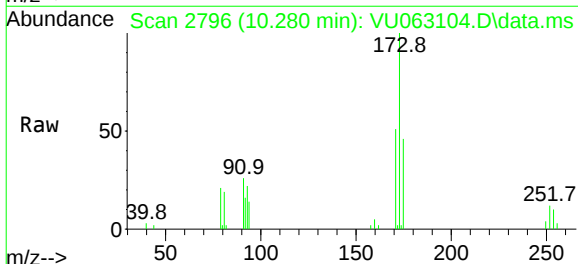
Instrument :
MSVOA_U
ClientSampleId :
XA179

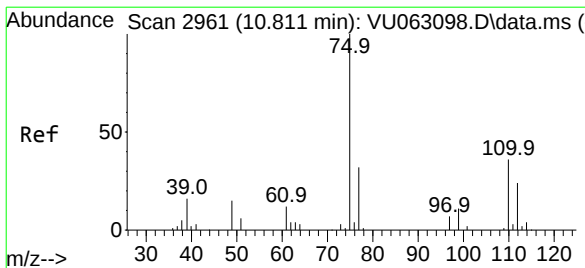
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	44.9	83.3
131	8.9	7.1	10.7



#59
Bromoform
Concen: 11.376 ug/L
RT: 10.280 min Scan# 2796
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

Tgt Ion	Ratio	Lower	Upper
173	100		
175	45.6	38.6	57.8
254	8.3	7.6	11.4





#60

1,2,3-Trichloropropane

Concen: 42.709 ug/L

RT: 10.811 min Scan# 2961

Delta R.T. -0.000 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

Instrument :

MSVOA_U

ClientSampleId :

XA179

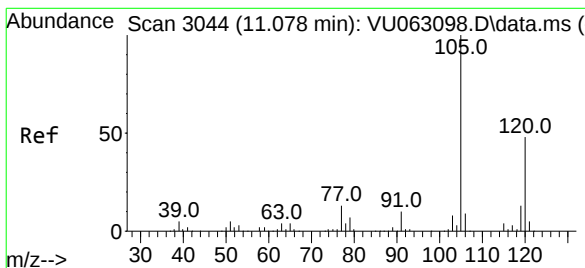
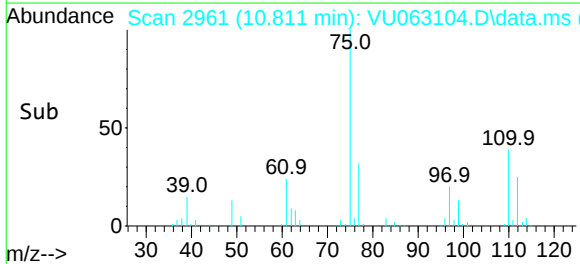
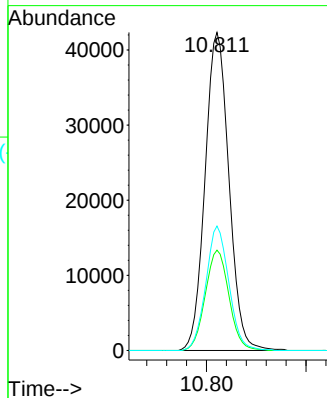
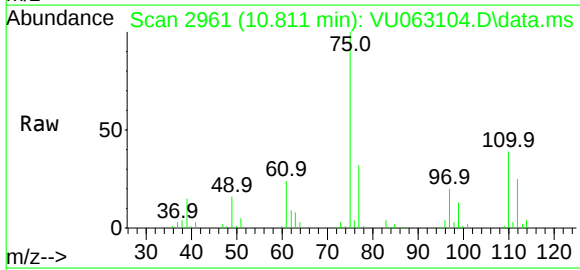
Tgt Ion: 75 Resp: 70430

Ion Ratio Lower Upper

75 100

77 31.3 25.6 38.4

110 37.8 29.1 43.7



#62

1,3,5-Trimethylbenzene

Concen: 53.108 ug/L

RT: 11.077 min Scan# 3044

Delta R.T. -0.000 min

Lab File: VU063104.D

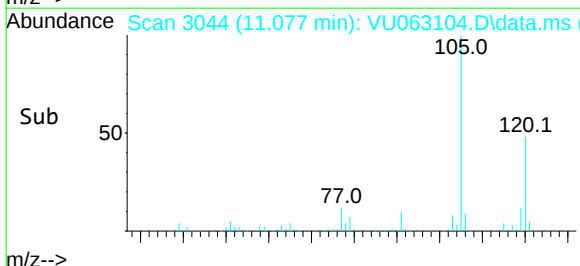
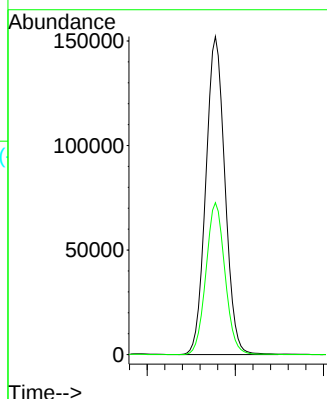
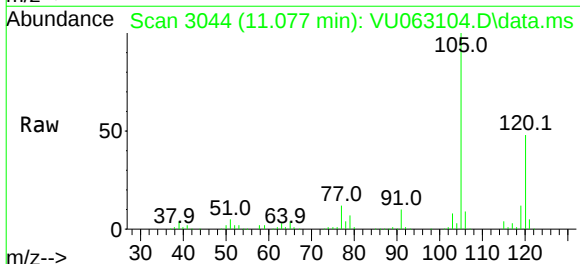
Acq: 30 Jan 2025 17:36

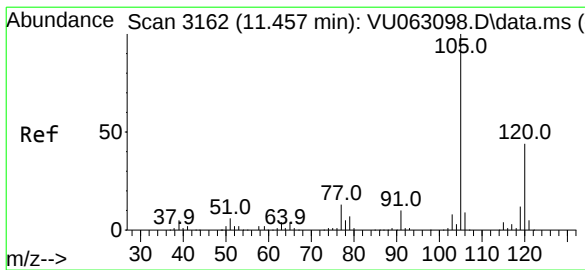
Tgt Ion: 105 Resp: 229324

Ion Ratio Lower Upper

105 100

120 47.5 38.2 57.2





#63

1,2,4-Trimethylbenzene

Concen: 74.642 ug/L

RT: 11.457 min Scan# 3162

Delta R.T. -0.000 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

Instrument :

MSVOA_U

ClientSampleId :

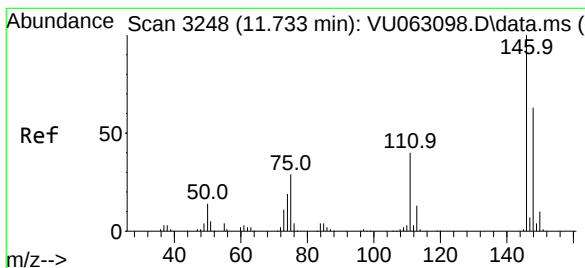
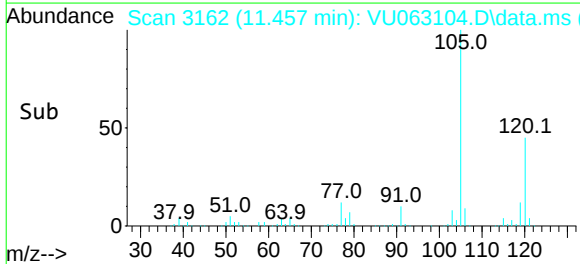
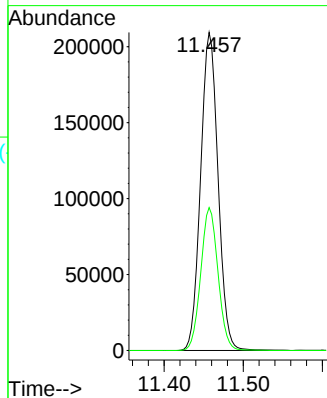
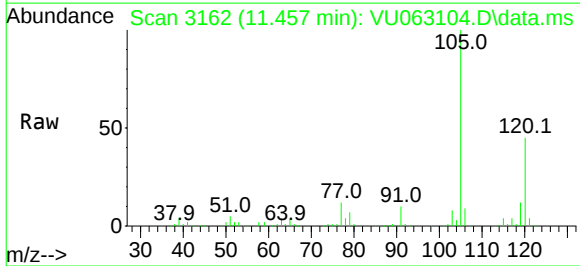
XA179

Tgt Ion:105 Resp: 320505

Ion Ratio Lower Upper

105 100

120 44.5 35.8 53.6



#64

1,3-Dichlorobenzene

Concen: 40.006 ug/L

RT: 11.733 min Scan# 3248

Delta R.T. -0.000 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

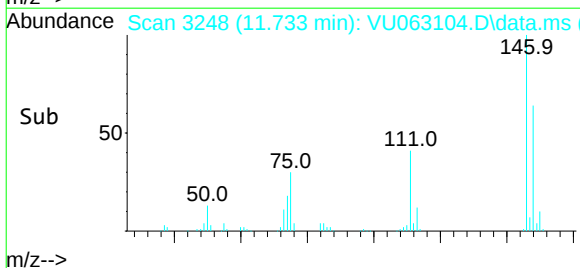
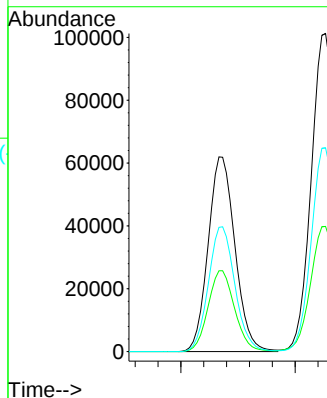
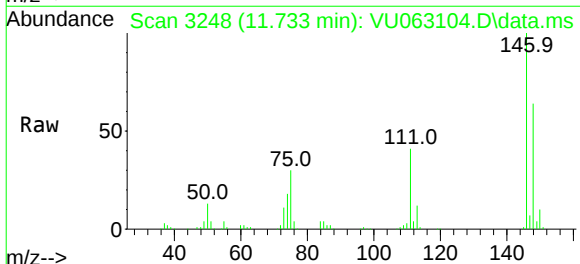
Tgt Ion:146 Resp: 101164

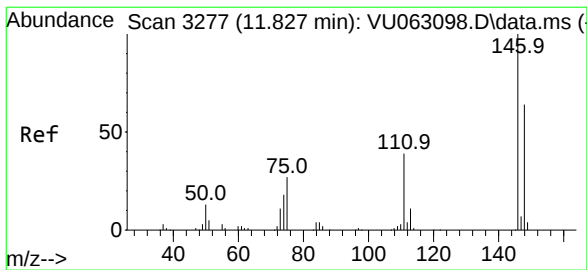
Ion Ratio Lower Upper

146 100

111 41.5 28.1 52.3

148 63.8 43.9 81.5





#65

1,4-Dichlorobenzene

Concen: 62.124 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. -0.000 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

Instrument :

MSVOA_U

ClientSampleId :

XA179

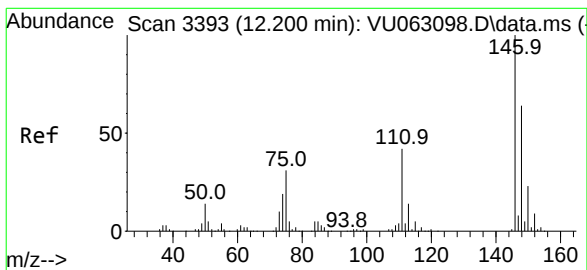
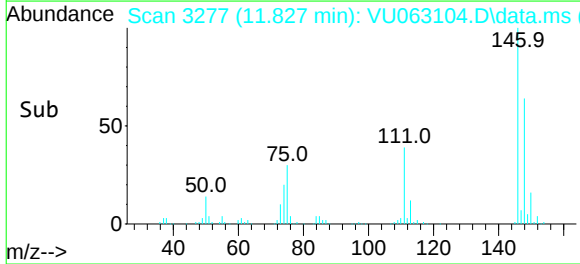
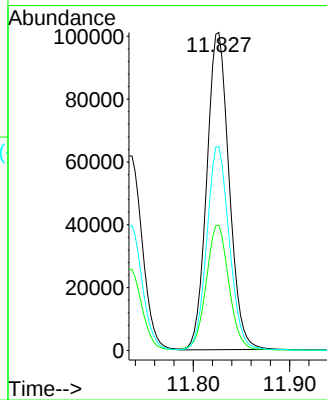
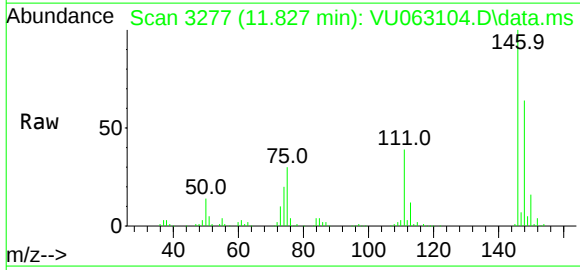
Tgt Ion:146 Resp: 162792

Ion Ratio Lower Upper

146 100

111 39.3 27.2 50.6

148 64.1 44.9 83.5



#67

1,2-Dichlorobenzene

Concen: 14.029 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.003 min

Lab File: VU063104.D

Acq: 30 Jan 2025 17:36

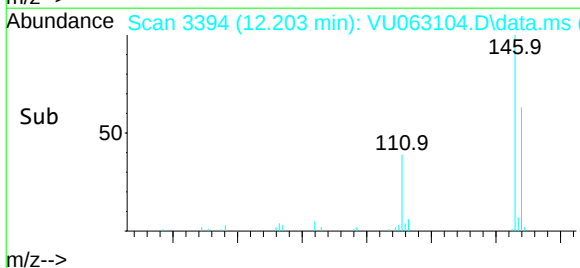
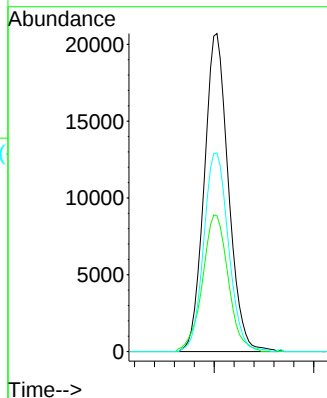
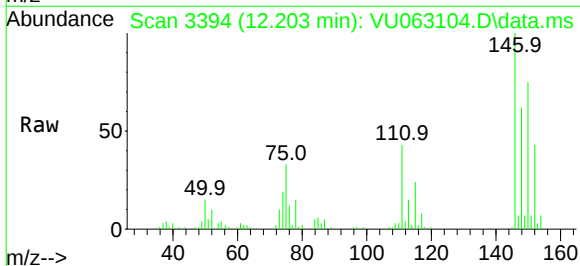
Tgt Ion:146 Resp: 34997

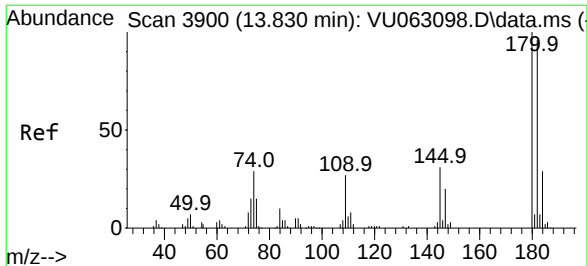
Ion Ratio Lower Upper

146 100

111 42.7 33.6 50.4

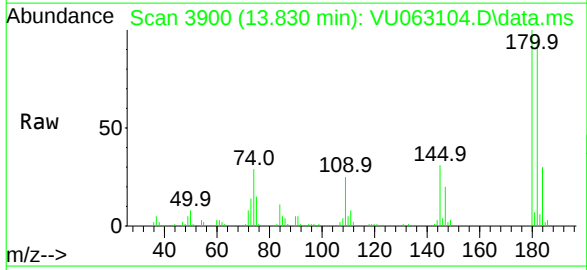
148 62.4 51.2 76.8





#70
1,2,4-trichlorobenzene
Concen: 35.981 ug/L
RT: 13.830 min Scan# 39
Delta R.T. -0.000 min
Lab File: VU063104.D
Acq: 30 Jan 2025 17:36

Instrument :
MSVOA_U
ClientSampleId :
XA179



Tgt Ion:	180	Resp:	52691
Ion Ratio	Lower	Upper	
180	100		
182	96.4	75.5	113.3
145	31.1	24.6	36.8

