

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012825\
 Data File : VX044746.D
 Acq On : 28 Jan 2025 15:58
 Operator : JC/MD
 Sample : Q1148-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 XA179

Quant Time: Jan 29 07:40:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML012825WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jan 28 12:04:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.751	114	316159	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.049	117	273852	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.018	152	118541	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	97564	40.996	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	82.000%		
7) Chloroethane-d5	1.642	69	37152	41.093	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.180%		
11) 1,1-Dichloroethene-d2	2.294	65	44315	43.563	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	87.120%		
21) 2-Butanone-d5	4.452	46	105336	103.534	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	103.530%		
24) Chloroform-d	5.050	84	171713	41.061	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	82.120%		
26) 1,2-Dichloroethane-d4	5.946	65	108988	43.419	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.840%		
32) Benzene-d6	5.964	84	377689	44.108	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	88.220%		
36) 1,2-Dichloropropane-d6	7.299	67	119785	44.196	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	88.400%		
41) Toluene-d8	8.647	98	334799	44.177	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	88.360%		
43) trans-1,3-Dichloroprop...	8.945	79	56772	44.160	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	88.320%		
47) 2-Hexanone-d5	9.384	63	70337	87.688	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	87.690%		
56) 1,1,2,2-Tetrachloroeth...	11.189	84	149185	44.295	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	88.600%		
66) 1,2-Dichlorobenzene-d4	12.317	152	103659	44.691	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.380%		
Target Compounds					Qvalue	
9) Trichlorofluoromethane	1.874	101	98638	34.554	ug/L	99
12) 1,1-Dichloroethene	2.306	96	124822	63.700	ug/L	94
13) Acetone	2.380	43	157921	155.659	ug/L	100
17) trans-1,2-Dichloroethene	3.081	96	113578	55.409	ug/L	98
18) Methyl tert-butyl Ether	3.111	73	774745	109.626	ug/L	98
19) 1,1-Dichloroethane	3.599	63	58580	14.616	ug/L	98
20) cis-1,2-Dichloroethene	4.477	96	185506	75.603	ug/L	100
27) 1,2-Dichloroethane	6.080	62	115848	37.973	ug/L	95
30) 1,1,1-Trichloroethane	5.373	97	175039	50.520	ug/L	99
31) Carbon tetrachloride	5.666	117	52007	17.503	ug/L	100
33) Benzene	6.031	78	661811	73.331	ug/L	100
34) Trichloroethene	7.117	95	182101	79.290	ug/L	98
37) 1,2-Dichloropropane	7.421	63	93488	38.297	ug/L	100
40) 4-Methyl-2-pentanone	8.567	43	297719	92.257	ug/L	99
42) Toluene	8.714	91	412293	44.528	ug/L	99
44) trans-1,3-Dichloropropene	8.976	75	284780	80.267	ug/L	100
45) 1,1,2-Trichloroethane	9.147	97	157182	68.983	ug/L	99
46) Tetrachloroethene	9.269	164	64095	39.300	ug/L	97
49) Dibromochloromethane	9.518	129	236293	102.827	ug/L	98

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

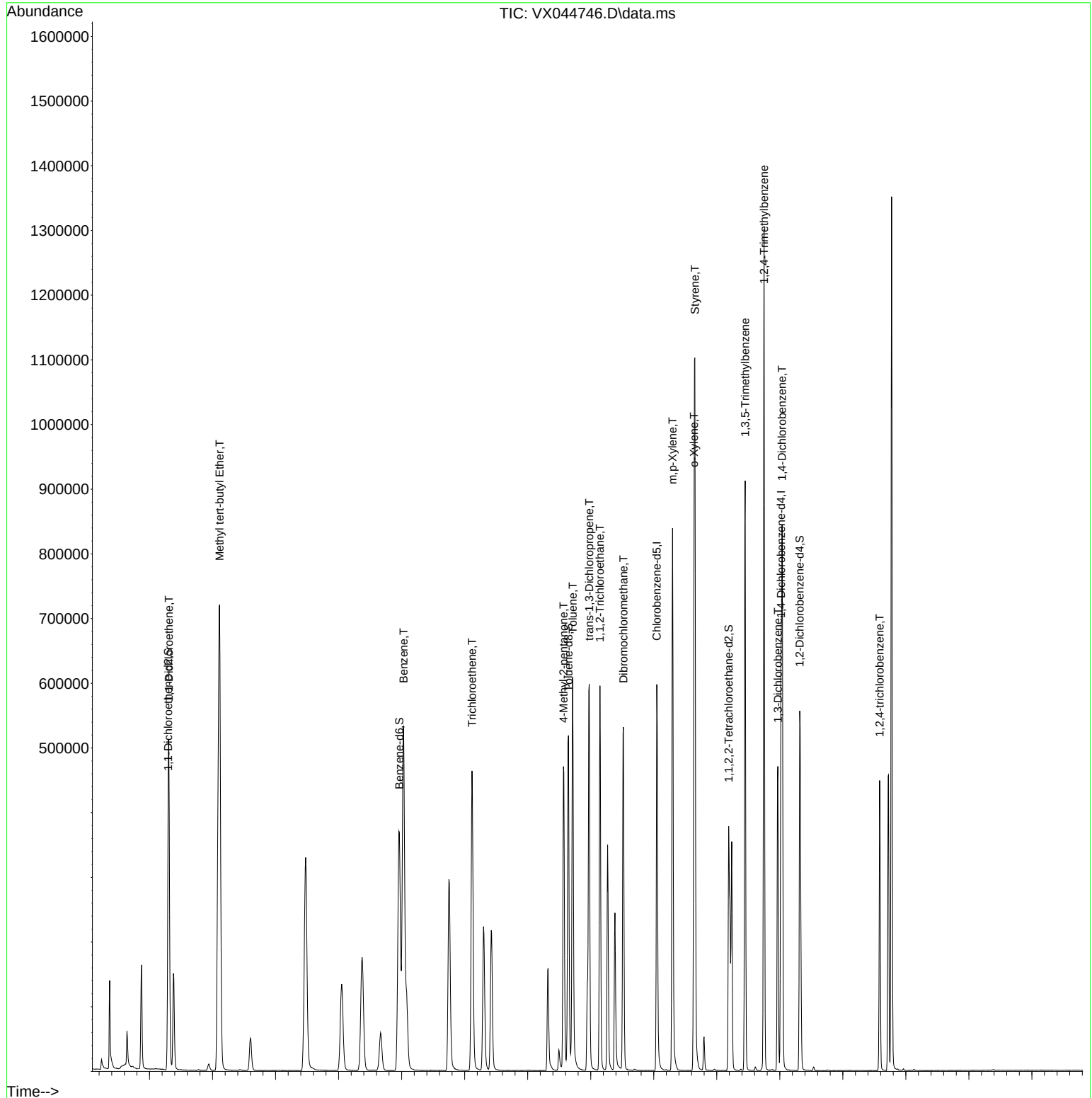
53) m,p-Xylene	10.299	106	203998	53.688	ug/L	96
54) o-Xylene	10.640	106	123628	33.009	ug/L	96
55) Styrene	10.652	104	385269	62.327	ug/L	97
57) 1,1,2,2-Tetrachloroethane	11.213	83	94834	26.825	ug/L	100
59) Bromoform	10.799	173	18547	11.828	ug/L	99
61) 1,2,3-Trichloropropane	11.238	75	110695	42.296	ug/L	99
62) 1,3,5-Trimethylbenzene	11.451	105	400614	51.295	ug/L	99
63) 1,2,4-Trimethylbenzene	11.750	105	537489	69.483	ug/L	99
64) 1,3-Dichlorobenzene	11.969	146	152261	38.905	ug/L	99
65) 1,4-Dichlorobenzene	12.036	146	240711	61.790	ug/L	99
67) 1,2-Dichlorobenzene	12.335	146	53572	13.807	ug/L	96
70) 1,2,4-trichlorobenzene	13.585	180	97261	42.068	ug/L	99

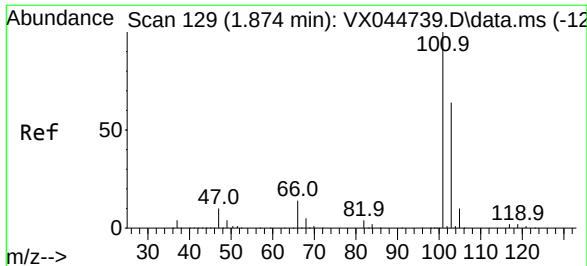
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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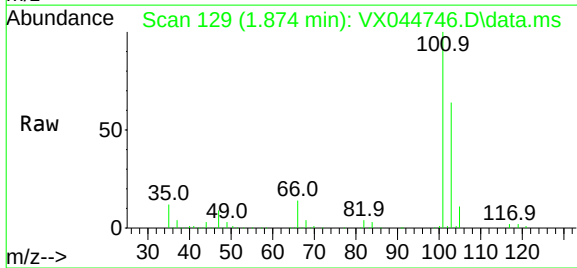
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Quant Title : VOC Analysis
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Response via : Initial Calibration



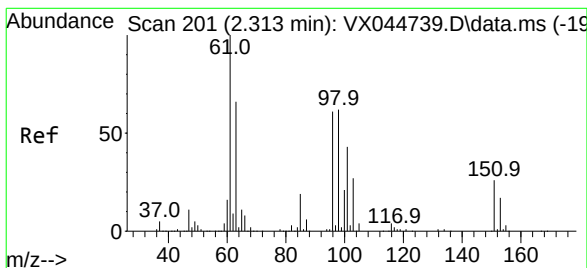
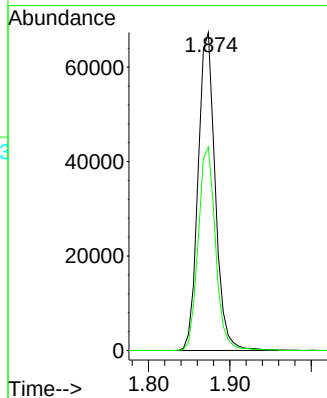
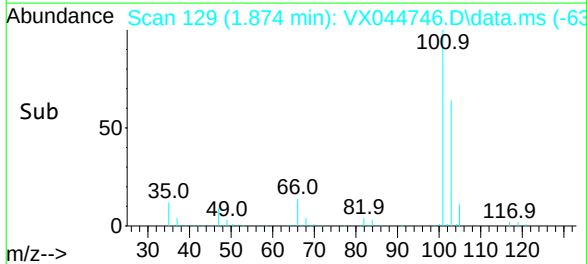


#9
 Trichlorofluoromethane
 Concen: 34.554 ug/L
 RT: 1.874 min Scan# 12
 Delta R.T. -0.000 min
 Lab File: VX044746.D
 Acq: 28 Jan 2025 15:58

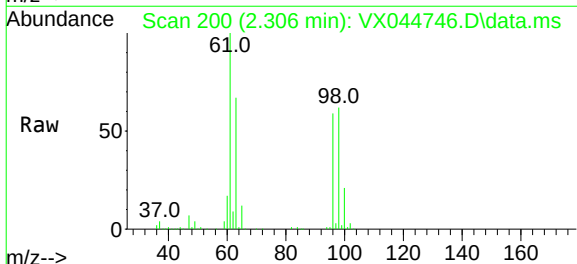
Instrument :
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 ClientSampleId :
 XA179



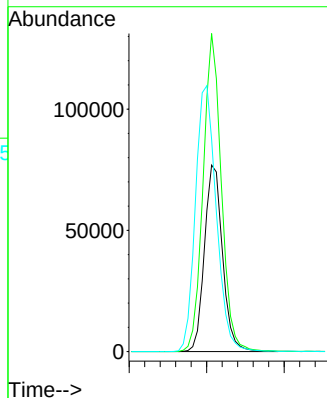
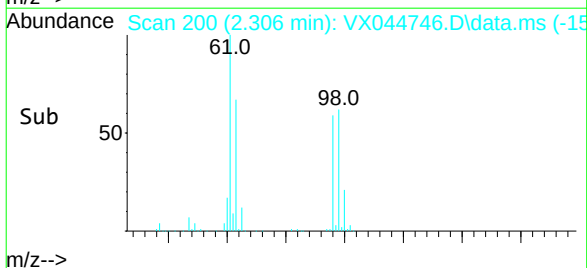
Tgt Ion:101 Resp: 98638
 Ion Ratio Lower Upper
 101 100
 103 64.1 52.2 78.2

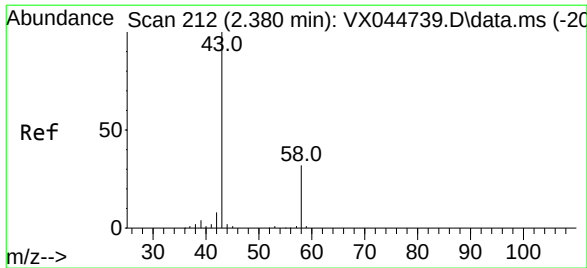


#12
 1,1-Dichloroethene
 Concen: 63.700 ug/L
 RT: 2.306 min Scan# 200
 Delta R.T. -0.006 min
 Lab File: VX044746.D
 Acq: 28 Jan 2025 15:58



Tgt Ion: 96 Resp: 124822
 Ion Ratio Lower Upper
 96 100
 61 170.5 115.1 213.8
 63 113.8 74.1 137.5





#13

Acetone

Concen: 155.659 ug/L

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

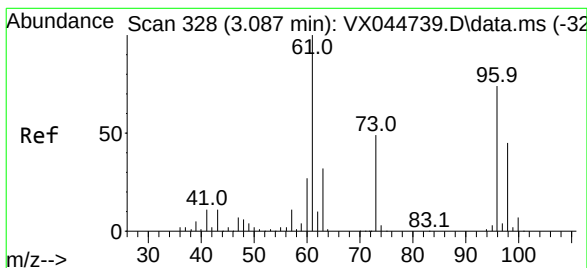
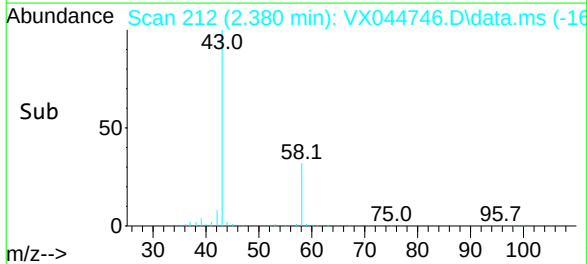
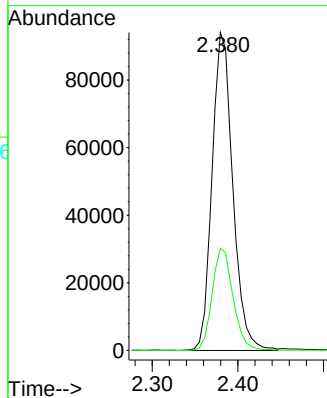
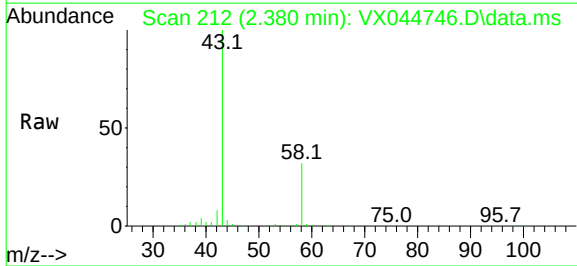
XA179

Tgt Ion: 43 Resp: 157921

Ion Ratio Lower Upper

43 100

58 32.4 0.0 64.6



#17

trans-1,2-Dichloroethene

Concen: 55.409 ug/L

RT: 3.081 min Scan# 327

Delta R.T. -0.006 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

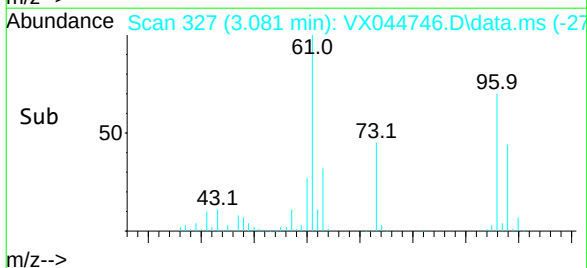
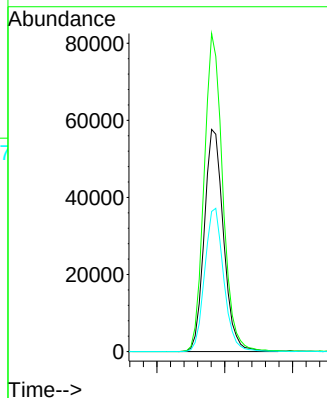
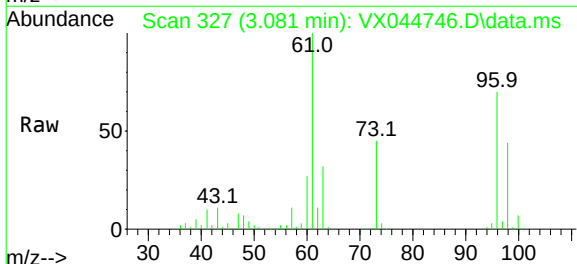
Tgt Ion: 96 Resp: 113578

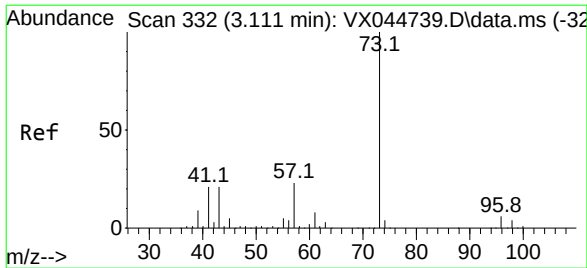
Ion Ratio Lower Upper

96 100

61 143.1 98.3 182.7

98 63.1 44.1 81.9

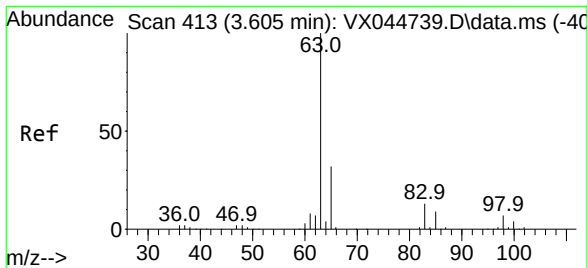
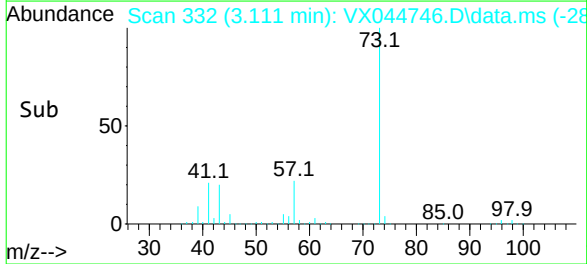
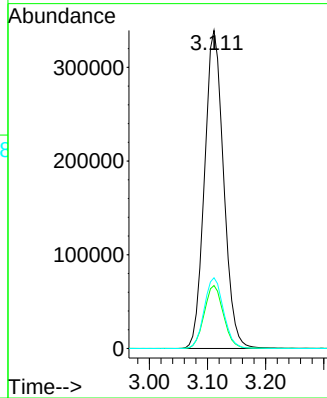
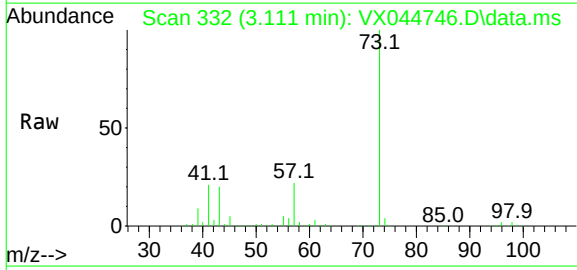




#18
Methyl tert-butyl Ether
Concen: 109.626 ug/L
RT: 3.111 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX044746.D
Acq: 28 Jan 2025 15:58

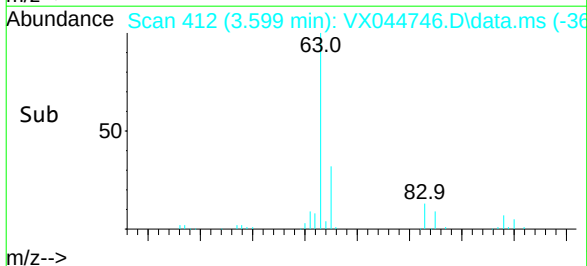
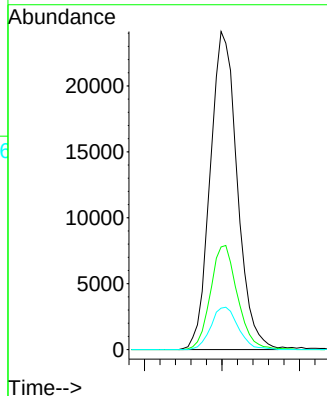
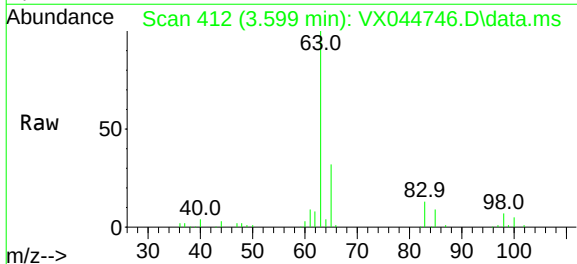
Instrument :
MSVOA_X
ClientSampleId :
XA179

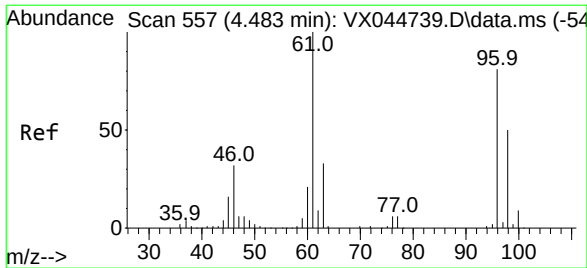
Tgt Ion: 73 Resp: 774745
Ion Ratio Lower Upper
73 100
43 20.0 16.9 25.3
57 22.4 17.4 26.0



#19
1,1-Dichloroethane
Concen: 14.616 ug/L
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX044746.D
Acq: 28 Jan 2025 15:58

Tgt Ion: 63 Resp: 58580
Ion Ratio Lower Upper
63 100
65 32.3 21.8 40.6
83 13.0 9.4 17.4

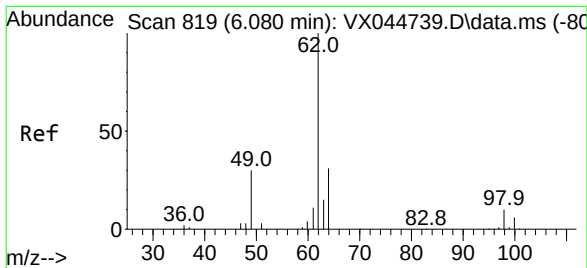
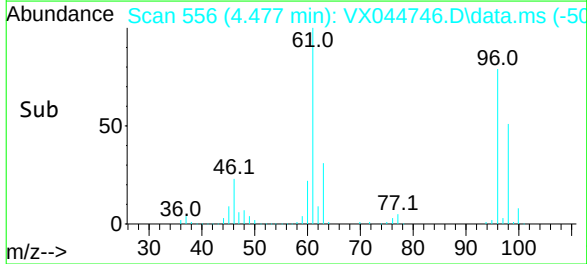
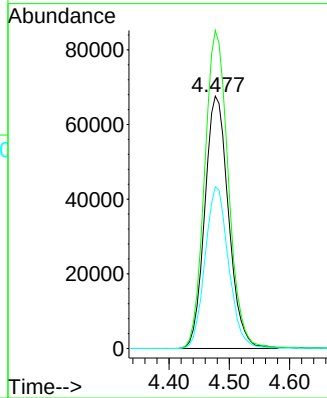
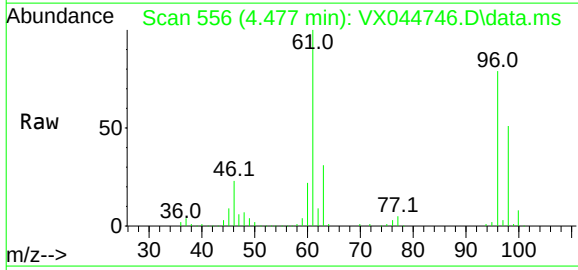




#20
 cis-1,2-Dichloroethene
 Concen: 75.603 ug/L
 RT: 4.477 min Scan# 55
 Delta R.T. -0.006 min
 Lab File: VX044746.D
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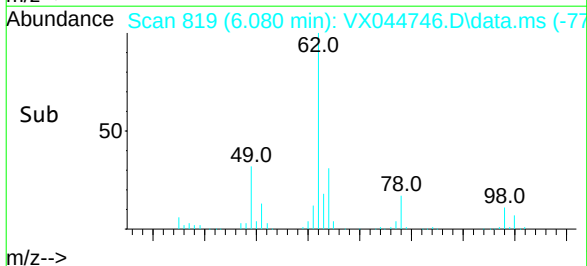
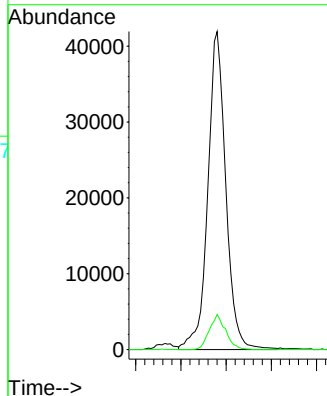
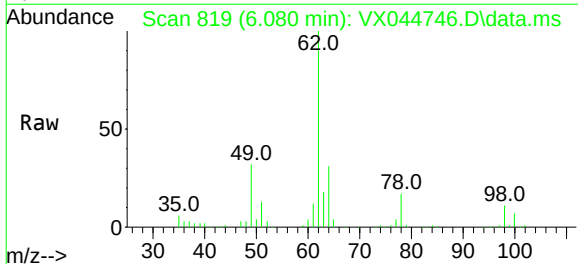
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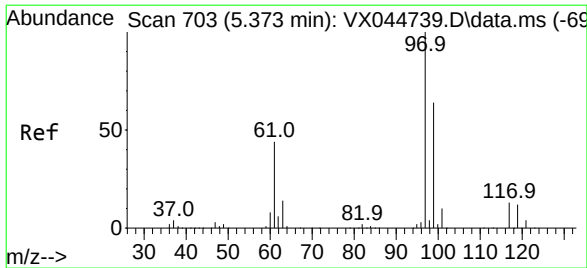
Tgt Ion: 96 Resp: 185506
 Ion Ratio Lower Upper
 96 100
 61 126.0 88.3 163.9
 98 64.0 44.6 82.8



#27
 1,2-Dichloroethane
 Concen: 37.973 ug/L
 RT: 6.080 min Scan# 819
 Delta R.T. -0.000 min
 Lab File: VX044746.D
 Acq: 28 Jan 2025 15:58

Tgt Ion: 62 Resp: 115848
 Ion Ratio Lower Upper
 62 100
 98 11.0 7.4 11.2

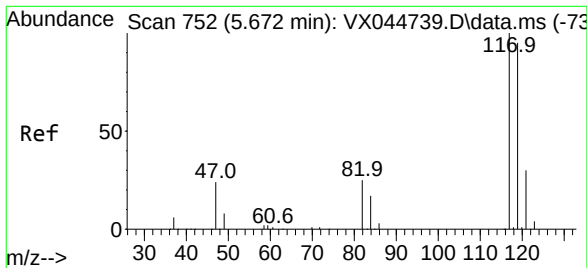
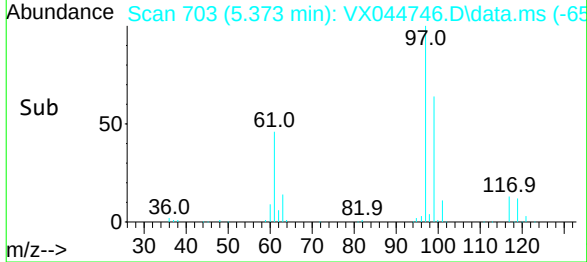
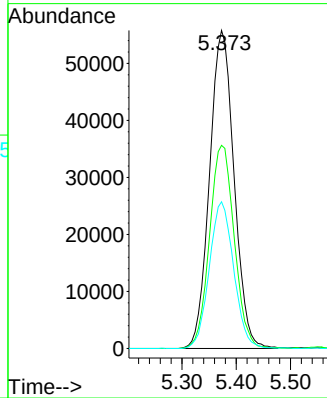
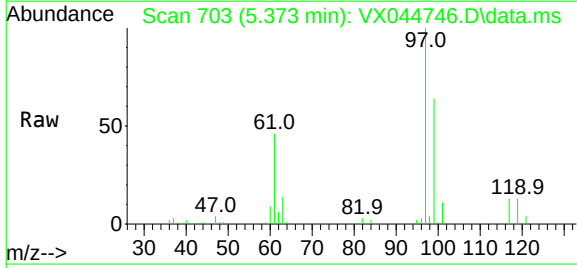




#30
1,1,1-Trichloroethane
Concen: 50.520 ug/L
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX044746.D
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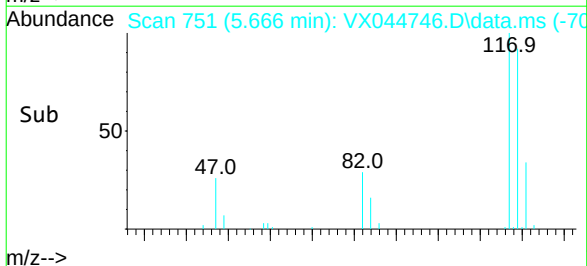
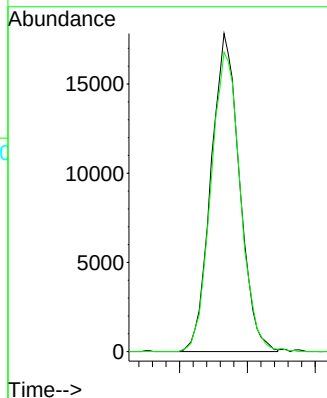
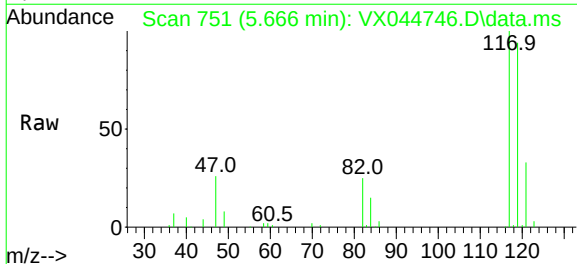
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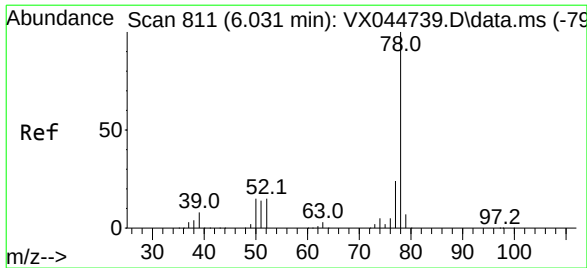
Tgt Ion: 97 Resp: 175039
Ion Ratio Lower Upper
97 100
99 64.5 51.0 76.4
61 46.0 35.8 53.6



#31
Carbon tetrachloride
Concen: 17.503 ug/L
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044746.D
Acq: 28 Jan 2025 15:58

Tgt Ion: 117 Resp: 52007
Ion Ratio Lower Upper
117 100
119 96.8 77.1 115.7





#33

Benzene

Concen: 73.331 ug/L

RT: 6.031 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

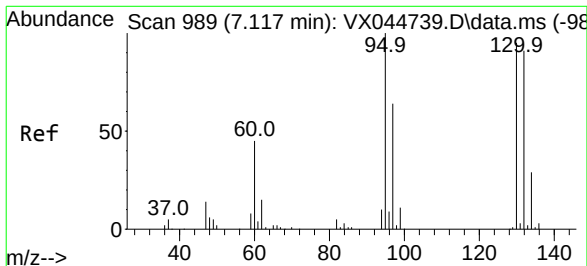
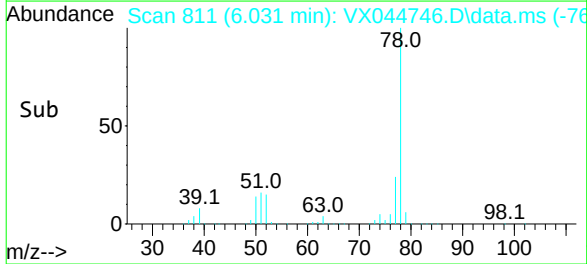
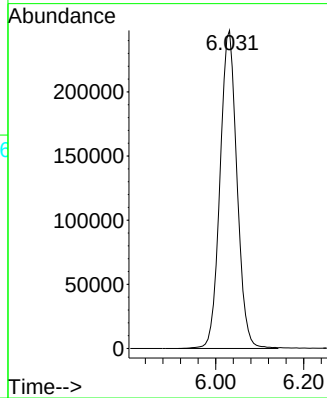
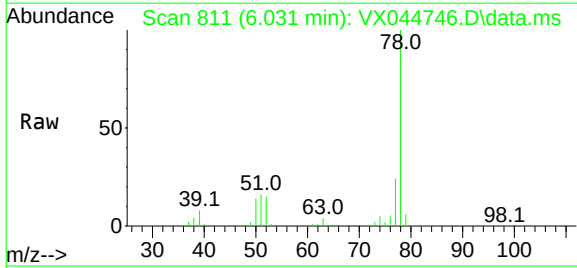
Instrument :

MSVOA_X

ClientSampleId :

XA179

Tgt Ion: 78 Resp: 661811



#34

Trichloroethene

Concen: 79.290 ug/L

RT: 7.117 min Scan# 989

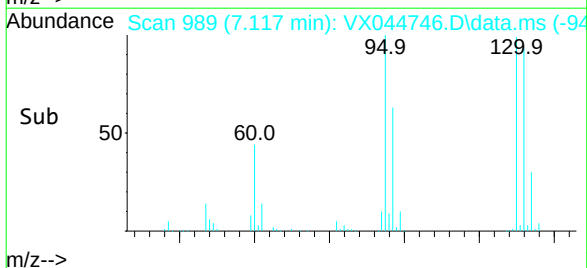
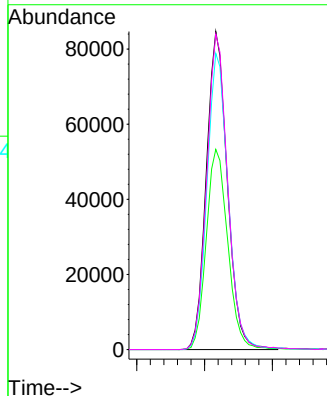
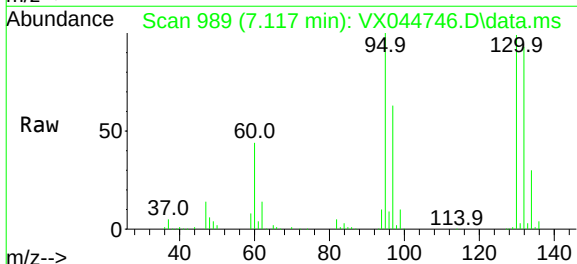
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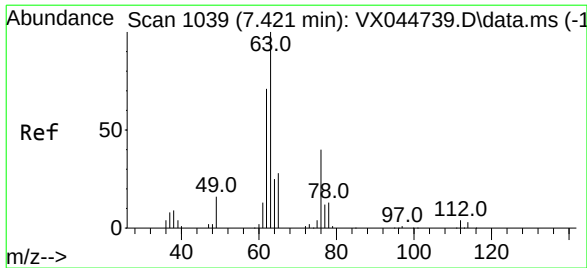
Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Tgt Ion: 95 Resp: 182101

Ion	Ratio	Lower	Upper
95	100		
97	63.0	46.1	85.5
132	93.1	64.5	119.9
130	99.2	68.8	127.8

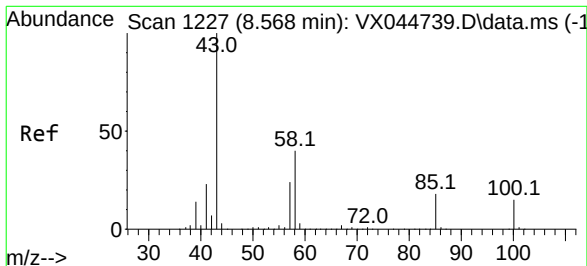
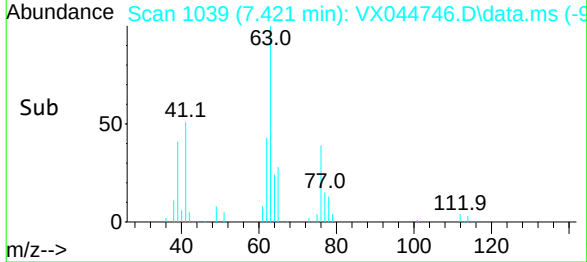
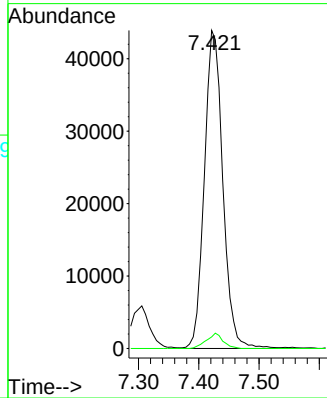
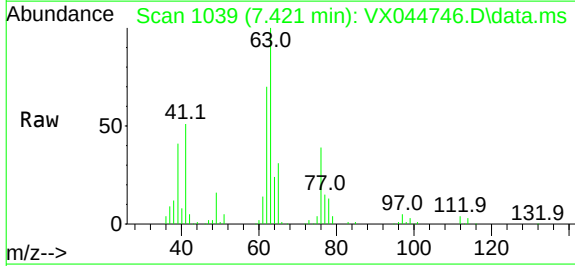




#37
1,2-Dichloropropane
Concen: 38.297 ug/L
RT: 7.421 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VX044746.D
Acq: 28 Jan 2025 15:58

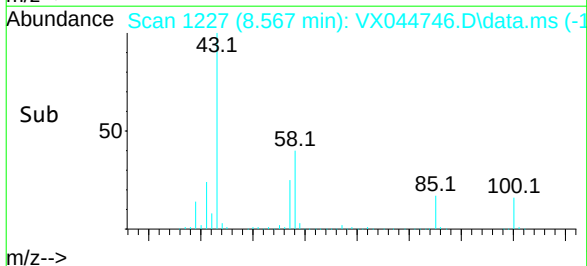
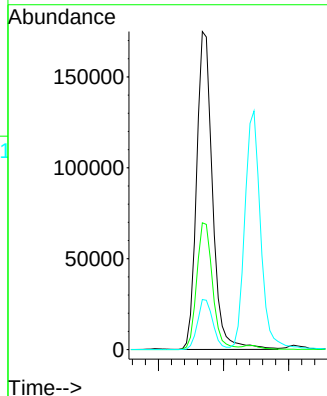
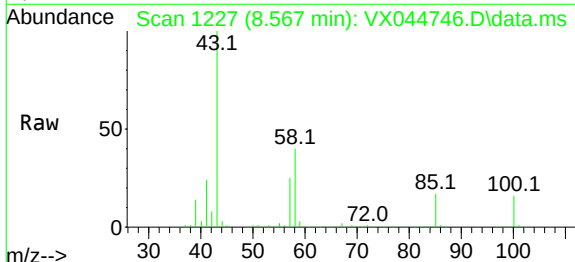
Instrument :
MSVOA_X
ClientSampleId :
XA179

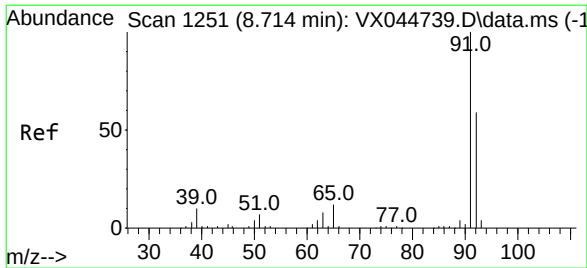
Tgt Ion: 63 Resp: 93488
Ion Ratio Lower Upper
63 100
112 4.3 3.5 5.3



#40
4-Methyl-2-pentanone
Concen: 92.257 ug/L
RT: 8.567 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VX044746.D
Acq: 28 Jan 2025 15:58

Tgt Ion: 43 Resp: 297719
Ion Ratio Lower Upper
43 100
58 39.6 32.1 48.1
100 15.3 12.9 19.3





#42

Toluene

Concen: 44.528 ug/L

RT: 8.714 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

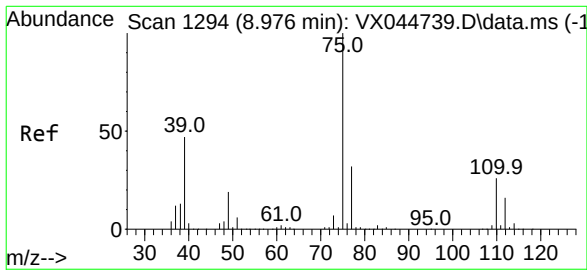
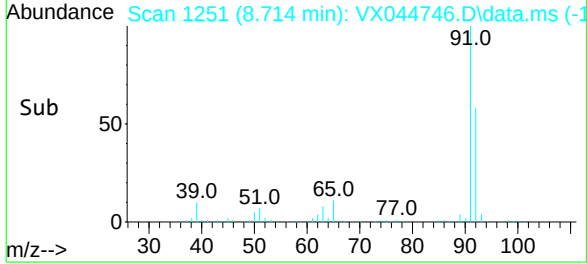
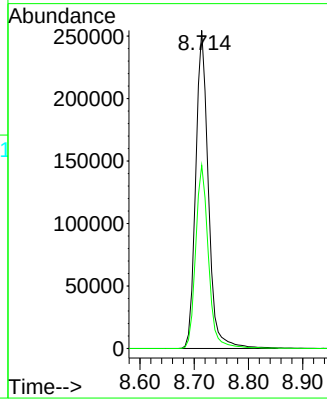
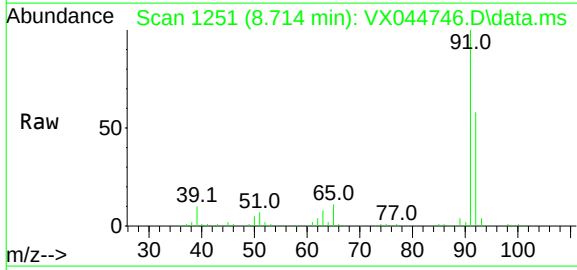
XA179

Tgt Ion: 91 Resp: 412293

Ion Ratio Lower Upper

91 100

92 57.6 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 80.267 ug/L

RT: 8.976 min Scan# 1294

Delta R.T. -0.000 min

Lab File: VX044746.D

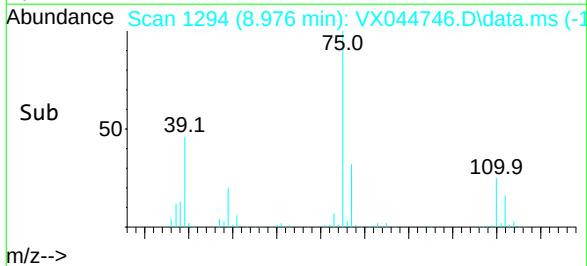
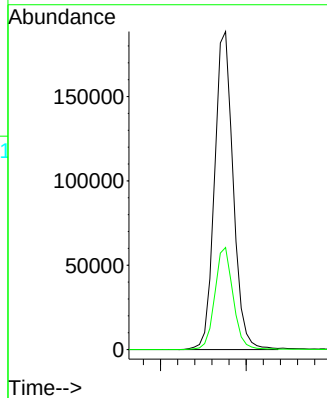
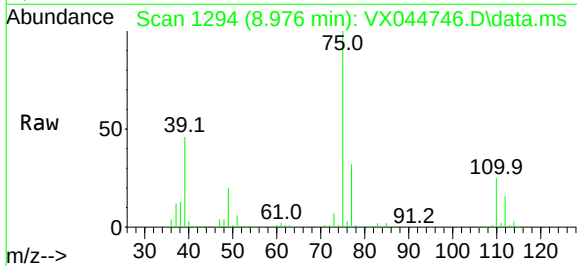
Acq: 28 Jan 2025 15:58

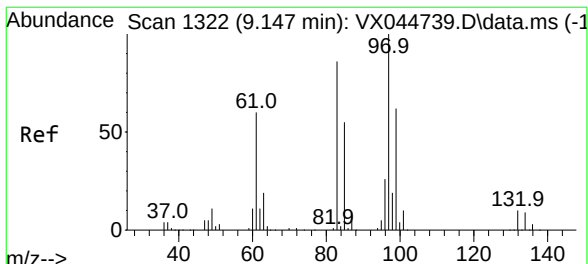
Tgt Ion: 75 Resp: 284780

Ion Ratio Lower Upper

75 100

77 32.1 22.4 41.6



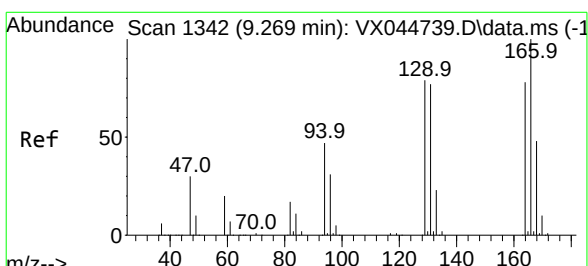
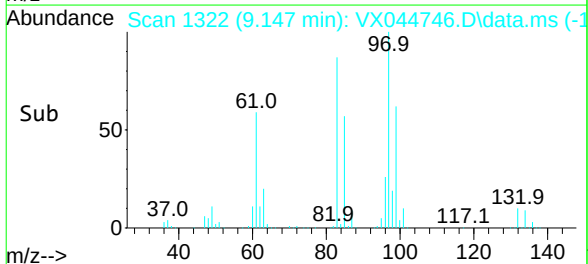
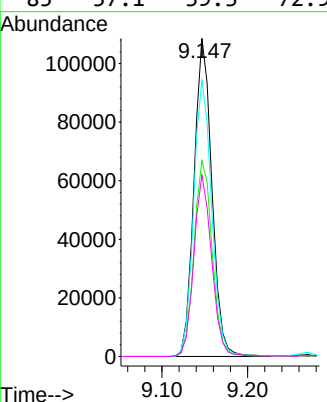
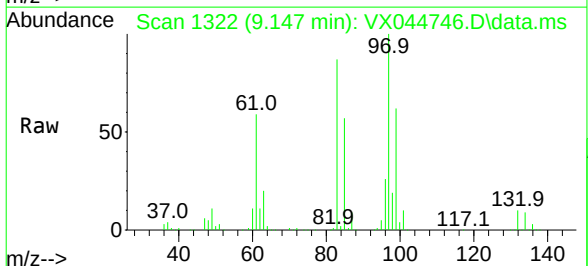


#45
 1,1,2-Trichloroethane
 Concen: 68.983 ug/L
 RT: 9.147 min Scan# 1322
 Delta R.T. -0.000 min
 Lab File: VX044746.D
 Acq: 28 Jan 2025 15:58

Instrument :
 MSVOA_X
 ClientSampleId :
 XA179

Tgt Ion: 97 Resp: 157182

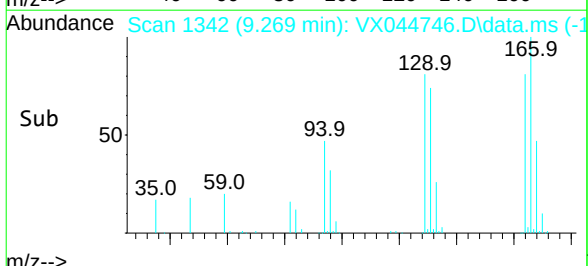
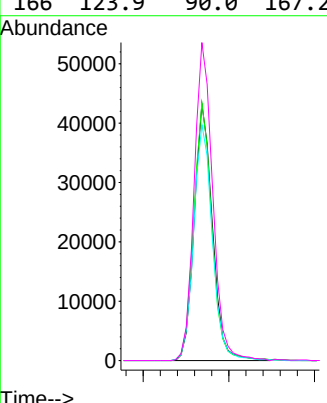
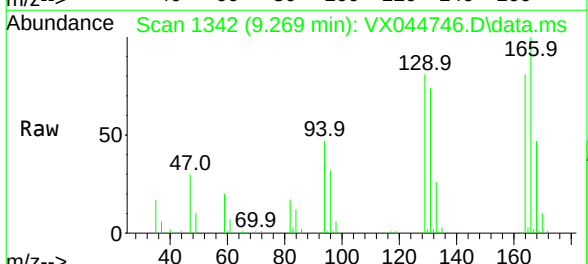
Ion	Ratio	Lower	Upper
97	100		
99	61.6	44.8	83.2
83	86.8	60.8	113.0
85	57.1	39.3	72.9

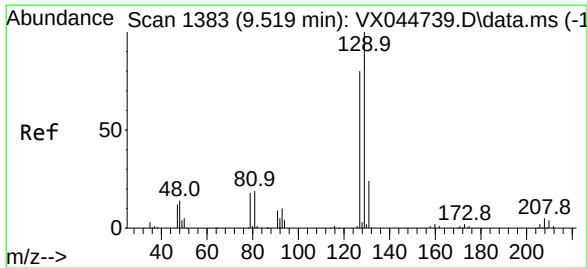


#46
 Tetrachloroethene
 Concen: 39.300 ug/L
 RT: 9.269 min Scan# 1342
 Delta R.T. -0.000 min
 Lab File: VX044746.D
 Acq: 28 Jan 2025 15:58

Tgt Ion: 164 Resp: 64095

Ion	Ratio	Lower	Upper
164	100		
129	100.4	71.2	132.2
131	91.9	67.2	124.8
166	123.9	90.0	167.2





#49

Dibromochloromethane

Concen: 102.827 ug/L

RT: 9.518 min Scan# 1383

Delta R.T. -0.001 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

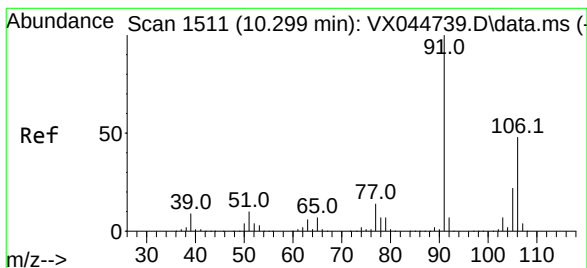
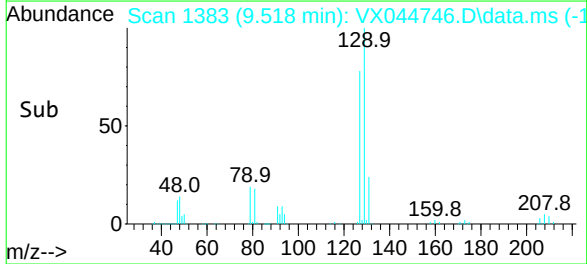
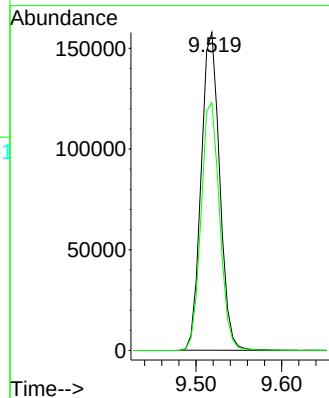
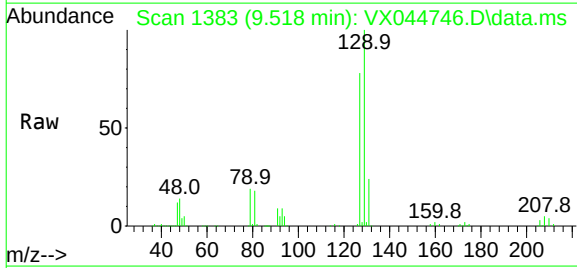
XA179

Tgt Ion:129 Resp: 236293

Ion Ratio Lower Upper

129 100

127 78.0 53.6 99.6



#53

m,p-Xylene

Concen: 53.688 ug/L

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX044746.D

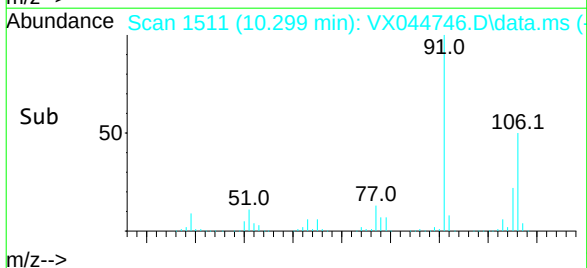
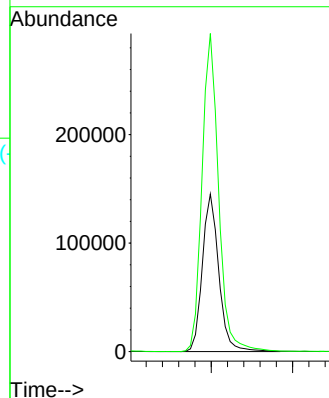
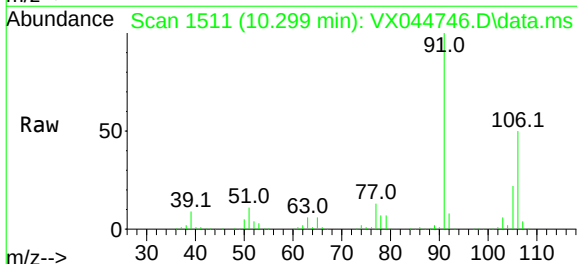
Acq: 28 Jan 2025 15:58

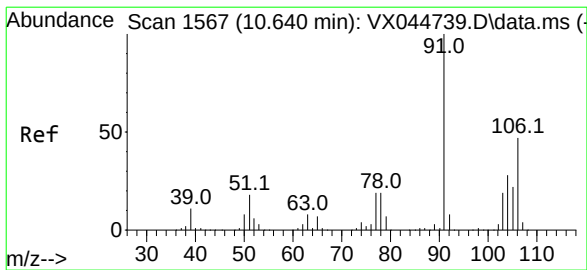
Tgt Ion:106 Resp: 203998

Ion Ratio Lower Upper

106 100

91 201.8 145.2 269.6





#54

o-Xylene

Concen: 33.009 ug/L

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

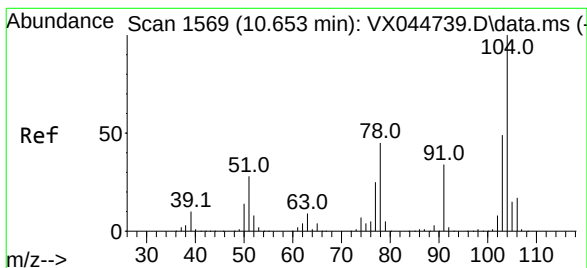
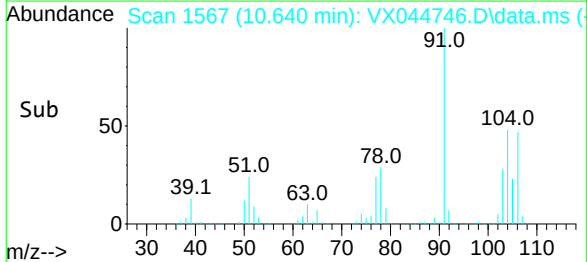
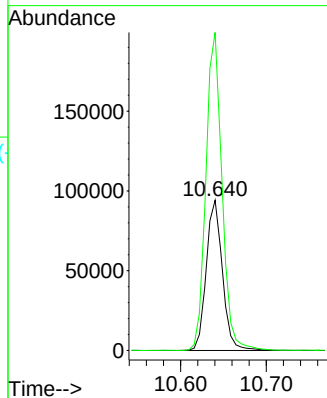
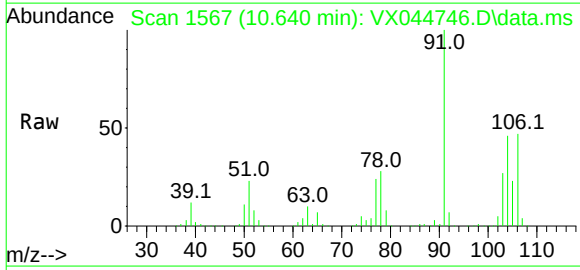
XA179

Tgt Ion:106 Resp: 123628

Ion Ratio Lower Upper

106 100

91 211.7 153.2 284.4



#55

Styrene

Concen: 62.327 ug/L

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX044746.D

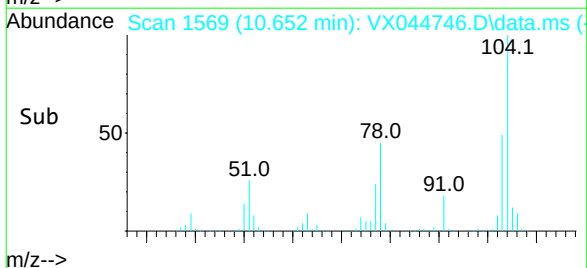
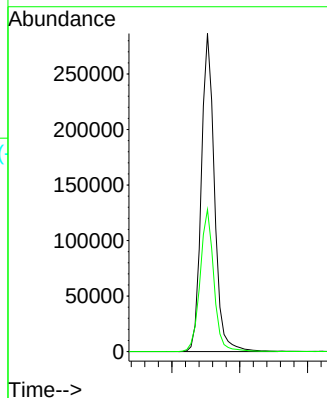
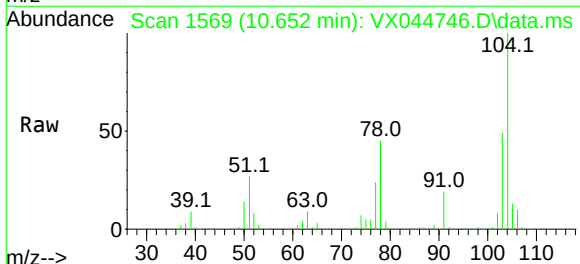
Acq: 28 Jan 2025 15:58

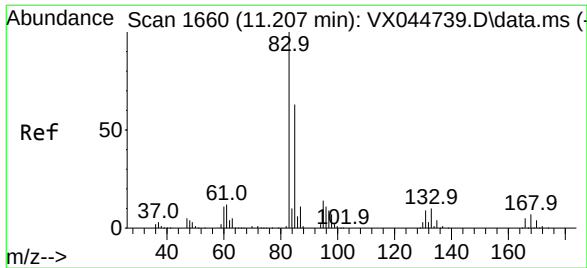
Tgt Ion:104 Resp: 385269

Ion Ratio Lower Upper

104 100

78 44.7 32.7 60.7





#57

1,1,2,2-Tetrachloroethane

Concen: 26.825 ug/L

RT: 11.213 min Scan# 1661

Delta R.T. 0.006 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

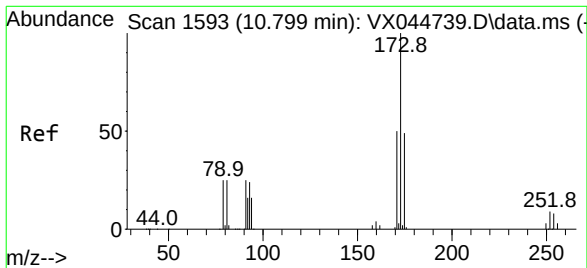
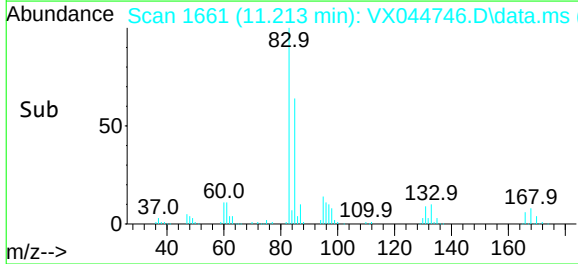
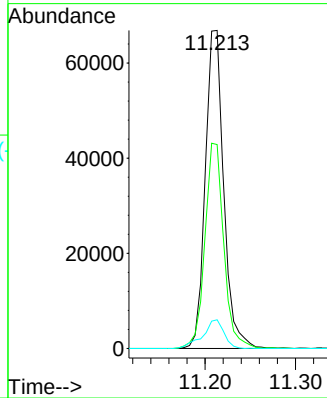
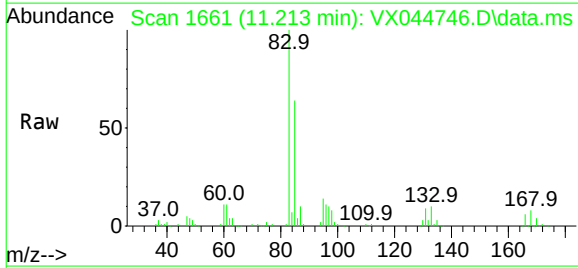
Instrument :

MSVOA_X

ClientSampleId :

XA179

Tgt Ion:	83	Resp:	94834
Ion Ratio	Lower	Upper	
83	100		
85	64.1	44.9	83.5
131	9.0	8.0	12.0



#59

Bromoform

Concen: 11.828 ug/L

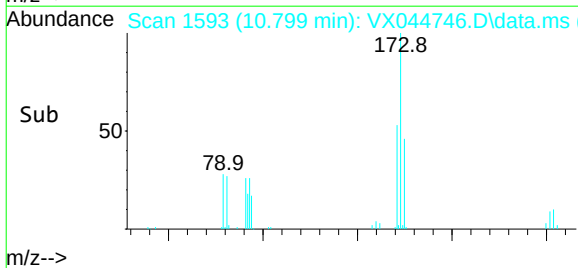
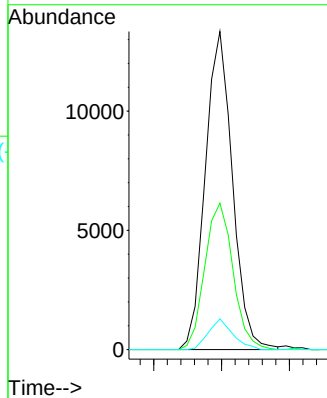
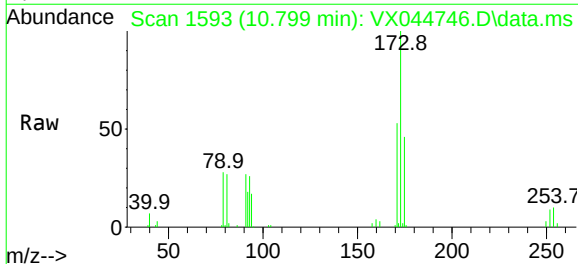
RT: 10.799 min Scan# 1593

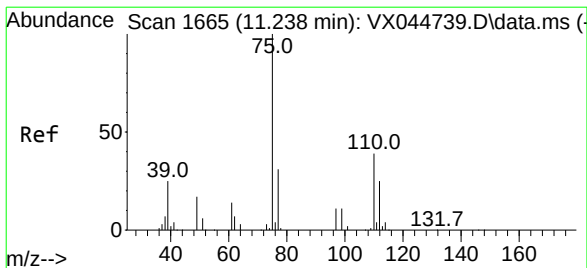
Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Tgt Ion:	173	Resp:	18547
Ion Ratio	Lower	Upper	
173	100		
175	47.9	38.6	58.0
254	8.7	6.6	10.0





#61

1,2,3-Trichloropropane

Concen: 42.296 ug/L

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

XA179

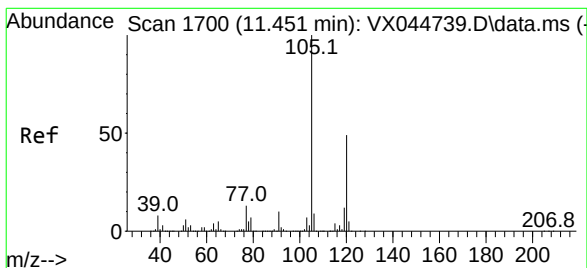
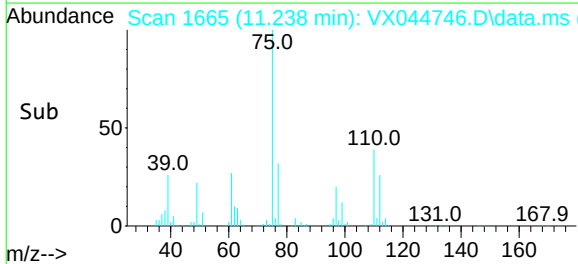
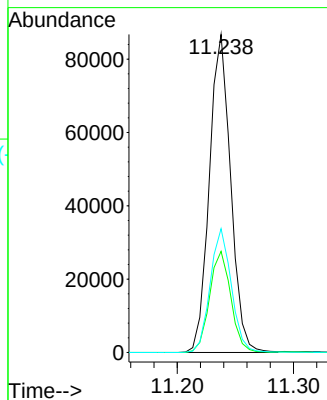
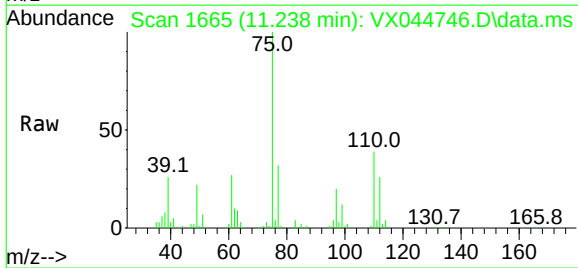
Tgt Ion: 75 Resp: 110695

Ion Ratio Lower Upper

75 100

77 31.7 25.8 38.6

110 38.8 30.8 46.2



#62

1,3,5-Trimethylbenzene

Concen: 51.295 ug/L

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX044746.D

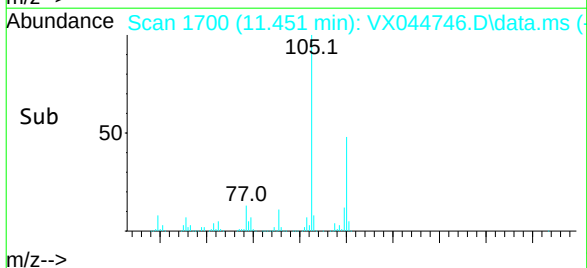
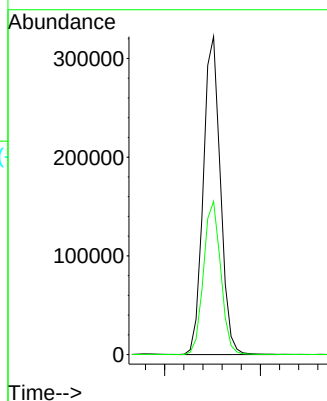
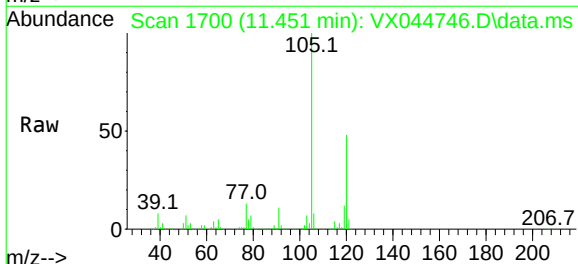
Acq: 28 Jan 2025 15:58

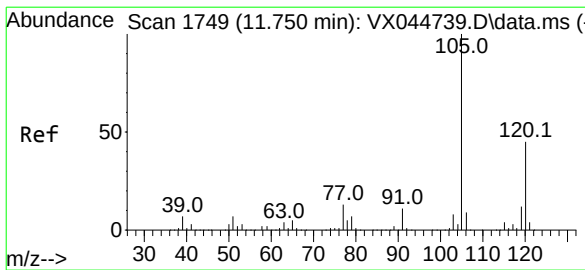
Tgt Ion:105 Resp: 400614

Ion Ratio Lower Upper

105 100

120 48.3 38.3 57.5





#63

1,2,4-Trimethylbenzene

Concen: 69.483 ug/L

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

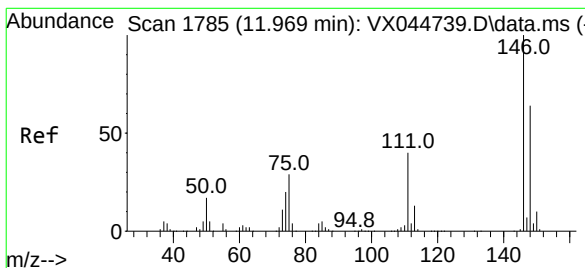
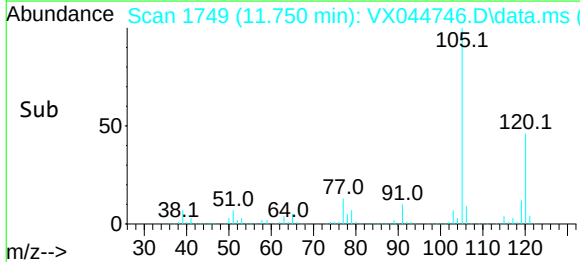
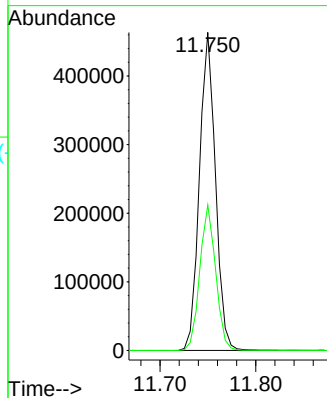
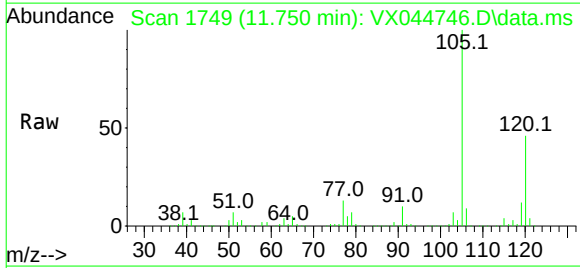
XA179

Tgt Ion:105 Resp: 537489

Ion Ratio Lower Upper

105 100

120 45.2 35.7 53.5



#64

1,3-Dichlorobenzene

Concen: 38.905 ug/L

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

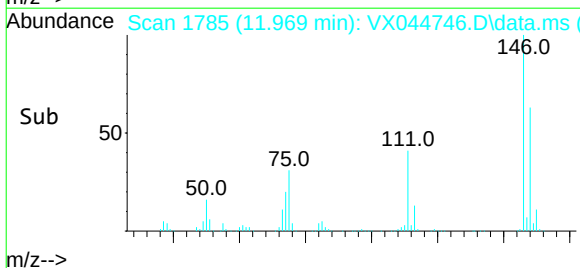
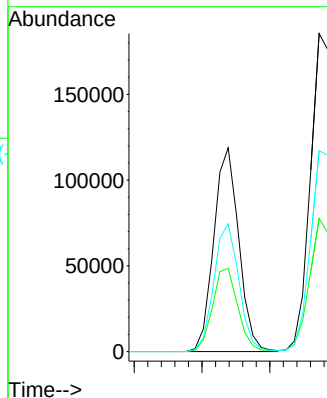
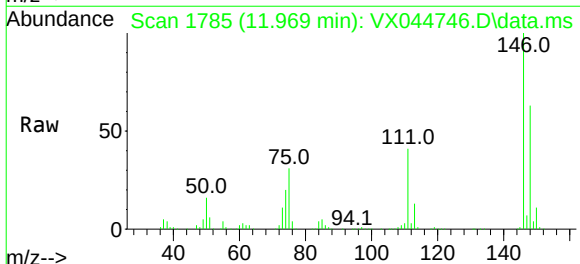
Tgt Ion:146 Resp: 152261

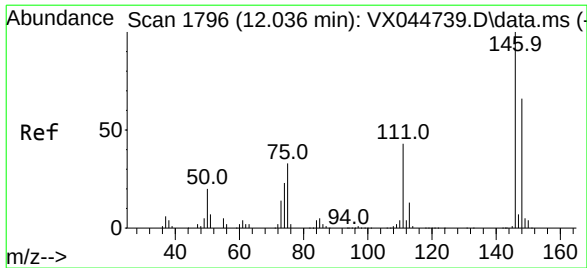
Ion Ratio Lower Upper

146 100

111 40.8 29.5 54.9

148 62.7 44.4 82.5





#65

1,4-Dichlorobenzene

Concen: 61.790 ug/L

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

XA179

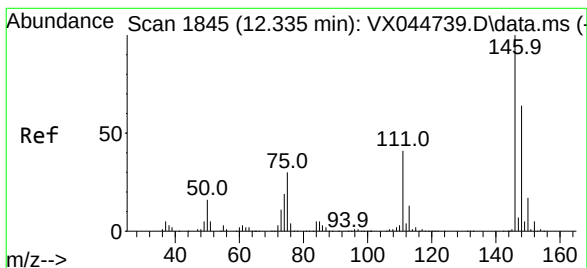
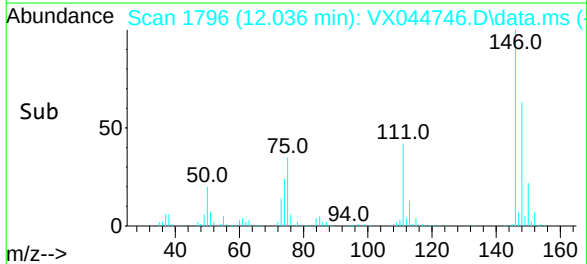
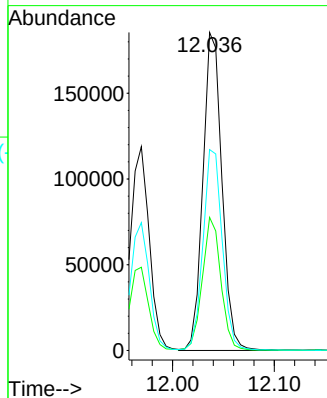
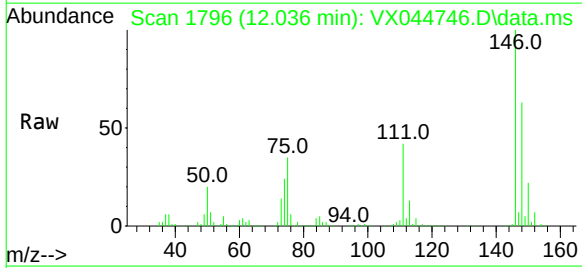
Tgt Ion:146 Resp: 240711

Ion Ratio Lower Upper

146 100

111 41.9 29.7 55.1

148 63.2 43.5 80.7



#67

1,2-Dichlorobenzene

Concen: 13.807 ug/L

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX044746.D

Acq: 28 Jan 2025 15:58

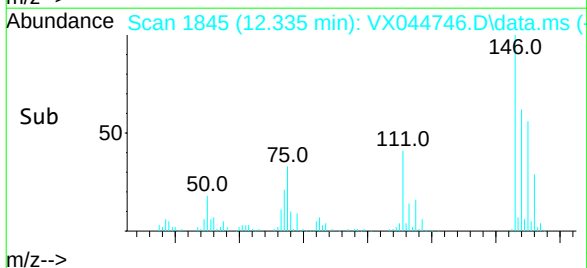
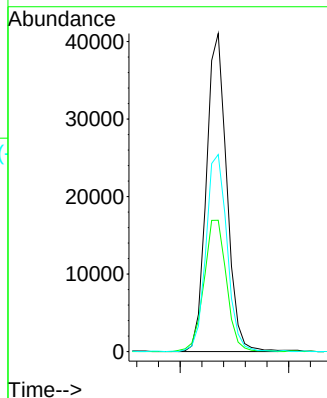
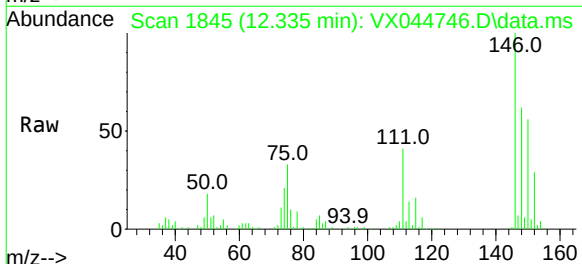
Tgt Ion:146 Resp: 53572

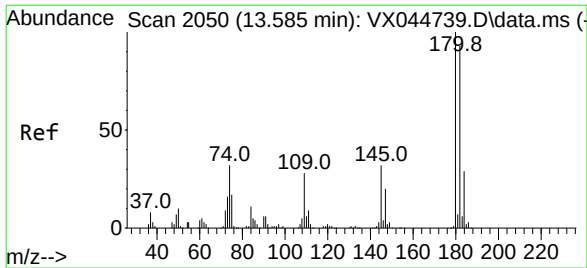
Ion Ratio Lower Upper

146 100

111 41.3 36.1 54.1

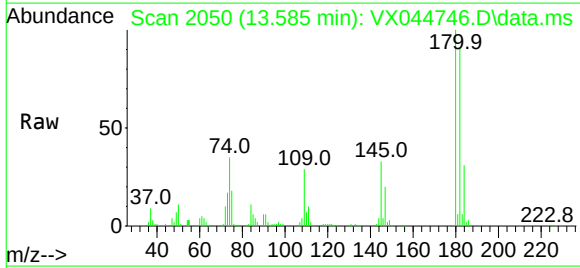
148 62.0 51.5 77.3





#70
 1,2,4-trichlorobenzene
 Concen: 42.068 ug/L
 RT: 13.585 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VX044746.D
 Acq: 28 Jan 2025 15:58

Instrument :
 MSVOA_X
 ClientSampleId :
 XA179



Tgt Ion:	180	Resp:	97261
Ion Ratio	Lower	Upper	
180	100		
182	94.5	76.5	114.7
145	33.0	27.0	40.4

