

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100424\
 Data File : VW030393.D
 Acq On : 04 Oct 2024 15:11
 Operator : SY/MD
 Sample : P4239-13
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A4E72

Quant Time: Oct 05 01:27:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM092724SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Oct 05 01:25:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	193310	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	176547	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	86084	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	35822	23.714	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.840%
7) Chloroethane-d5	2.899	69	26588	24.191	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.760%
11) 1,1-Dichloroethene-d2	4.015	65	22684	20.572	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	82.280%
21) 2-Butanone-d5	7.075	46	28721	47.279	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.560%
24) Chloroform-d	7.648	84	128786	24.799	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.200%
26) 1,2-Dichloroethane-d4	8.307	65	61545	22.705	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.800%
32) Benzene-d6	8.276	84	211472	21.372	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.480%
36) 1,2-Dichloropropane-d6	9.276	67	68005	22.851	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.400%
41) Toluene-d8	10.325	98	198540	21.882	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	87.520%
43) trans-1,3-Dichloroprop...	10.575	79	26743	21.604	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.400%
47) 2-Hexanone-d5	10.922	63	24016	48.869	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.740%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	55778	25.082	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.320%
66) 1,2-Dichlorobenzene-d4	13.854	152	62018	21.699	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.800%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.039	96	99940	44.500	ug/L	86
13) Acetone	4.118	43	44893	69.666	ug/L	99
16) Methylene chloride	4.923	84	226663	76.182	ug/L	98
17) trans-1,2-Dichloroethene	5.429	96	82210	31.533	ug/L	99
18) Methyl tert-butyl Ether	5.423	73	176240	42.501	ug/L	100
19) 1,1-Dichloroethane	6.222	63	451069	90.851	ug/L	96
22) 2-Butanone	7.167	43	174821	212.219	ug/L	97
25) Chloroform	7.679	83	465067	90.321	ug/L	99
31) Carbon tetrachloride	8.075	117	62419	17.077	ug/L	98
33) Benzene	8.325	78	729845	67.872	ug/L	100
34) Trichloroethene	9.093	95	285704	99.885	ug/L	94
37) 1,2-Dichloropropane	9.367	63	108900	38.383	ug/L	100
39) cis-1,3-Dichloropropene	10.075	75	283288	65.118	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	227918	156.183	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	266548	73.944	ug/L	95
45) 1,1,2-Trichloroethane	10.788	97	103872	51.952	ug/L	95
50) 1,2-Dibromoethane	11.233	107	89006	47.047	ug/L	99
53) m,p-Xylene	11.837	106	245632	50.455	ug/L	95
54) o-Xylene	12.166	106	307148	66.286	ug/L	100

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

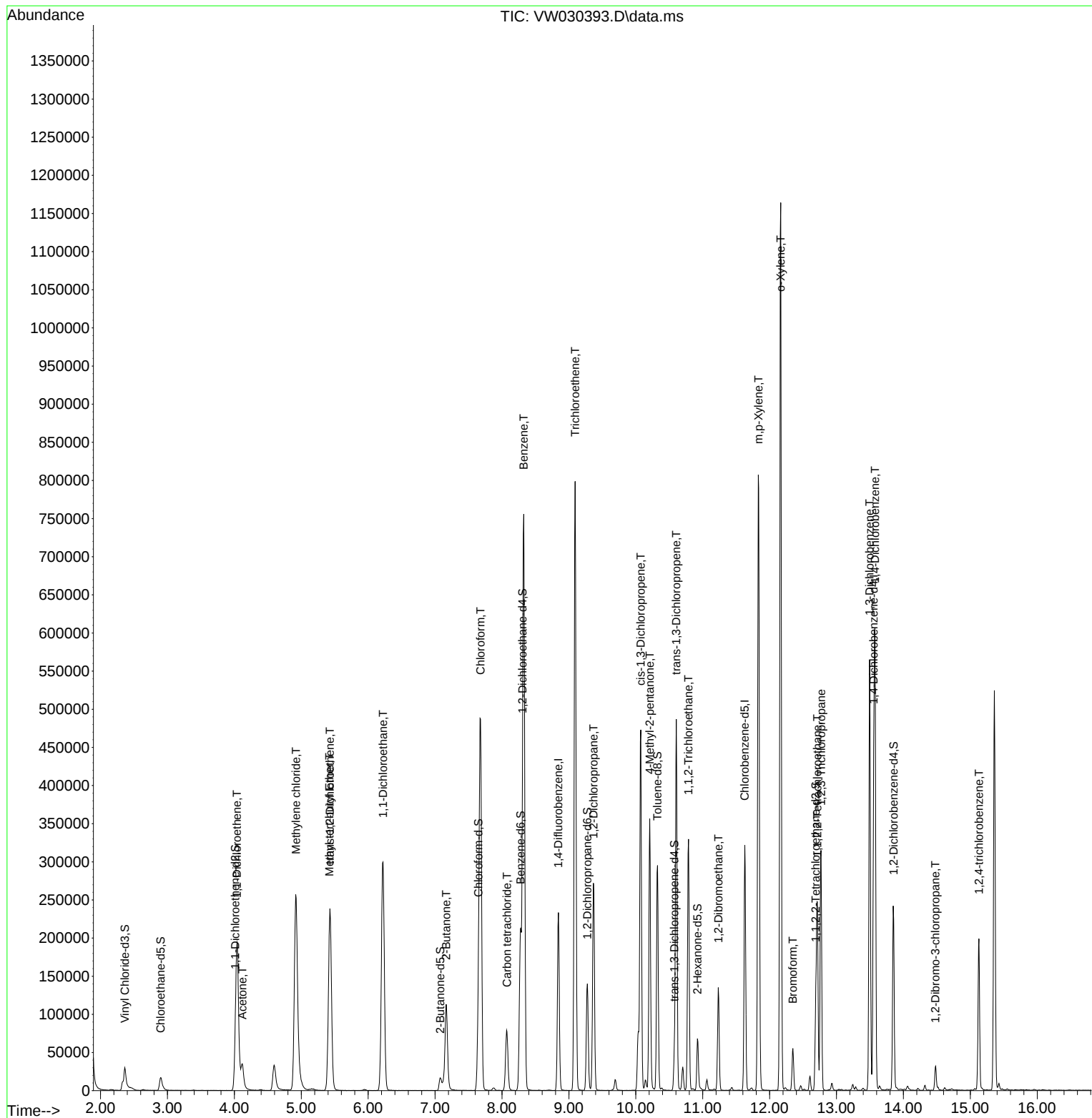
57) 1,1,2,2-Tetrachloroethane	12.714	83	119781	51.153	ug/L	98
59) Bromoform	12.349	173	23923	19.183	ug/L	99
61) 1,2,3-Trichloropropane	12.769	75	136193	83.223	ug/L	100
64) 1,3-Dichlorobenzene	13.495	146	221707	40.603	ug/L	83
65) 1,4-Dichlorobenzene	13.574	146	222251	39.843	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.476	75	8713	23.237	ug/L	97
70) 1,2,4-trichlorobenzene	15.129	180	60744	19.467	ug/L	98

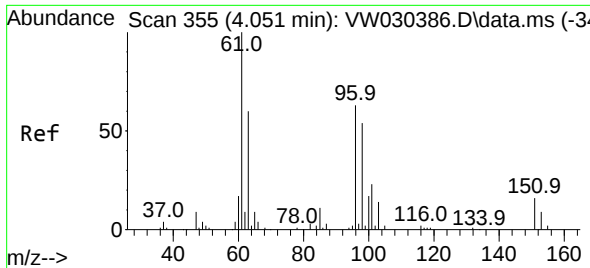
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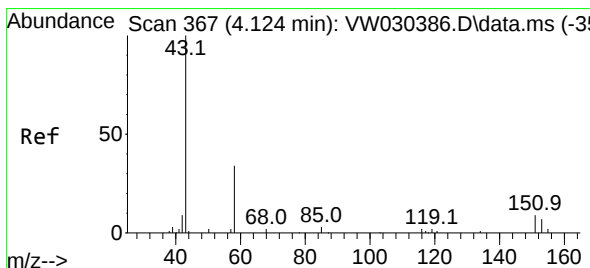
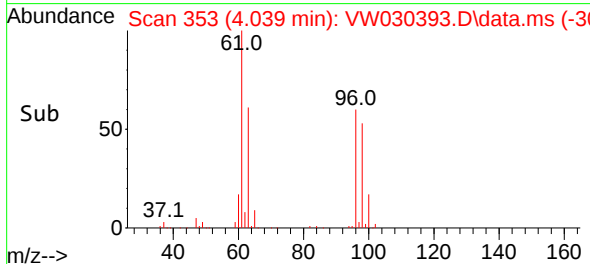
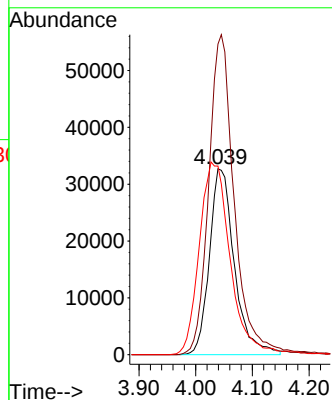
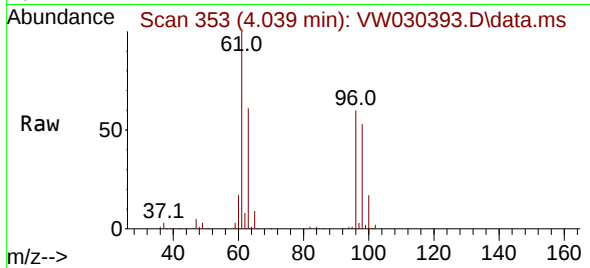




#12
1,1-Dichloroethene
Concen: 44.500 ug/L
RT: 4.039 min Scan# 353
Delta R.T. -0.012 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

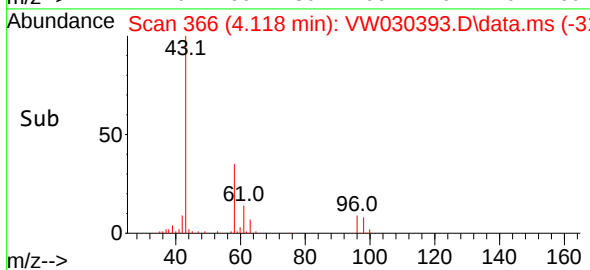
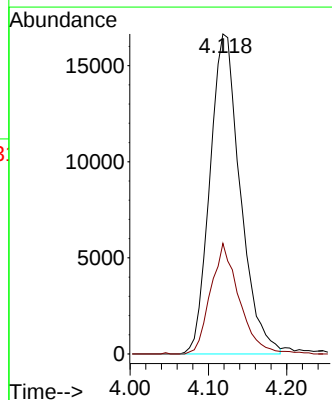
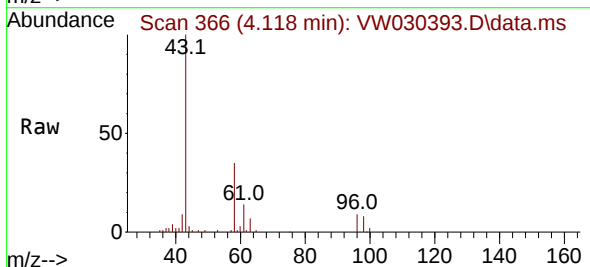
Instrument :
MSVOA_W
ClientSampleId :
A4E72

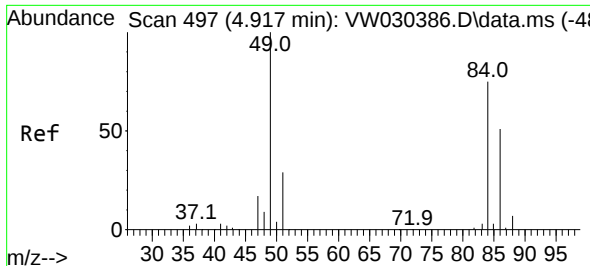
Tgt Ion: 96 Resp: 99940
Ion Ratio Lower Upper
96 100
61 167.0 120.1 223.1
63 101.4 94.8 176.2



#13
Acetone
Concen: 69.666 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.006 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

Tgt Ion: 43 Resp: 44893
Ion Ratio Lower Upper
43 100
58 32.7 0.0 64.0

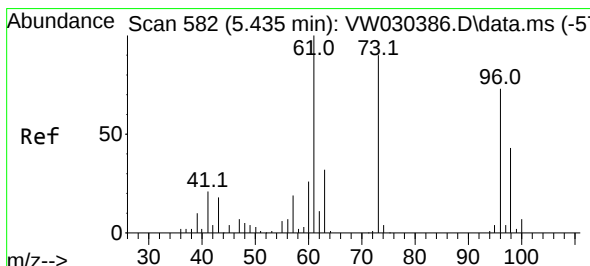
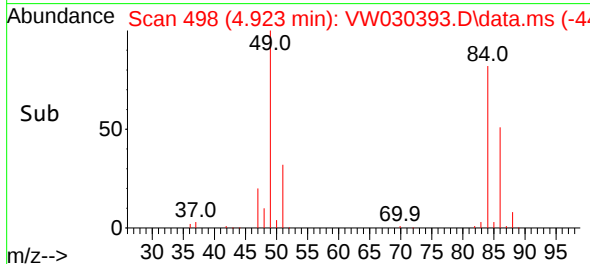
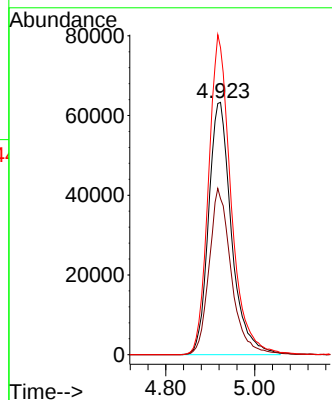
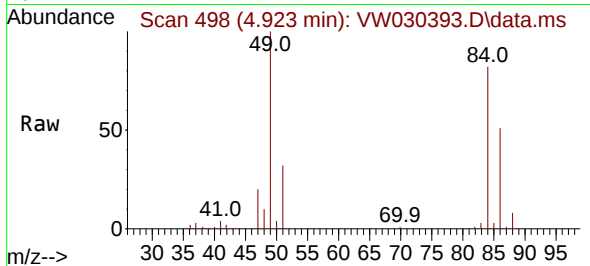




#16
Methylene chloride
Concen: 76.182 ug/L
RT: 4.923 min Scan# 49
Delta R.T. 0.006 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

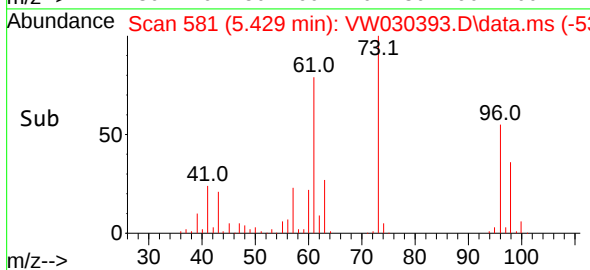
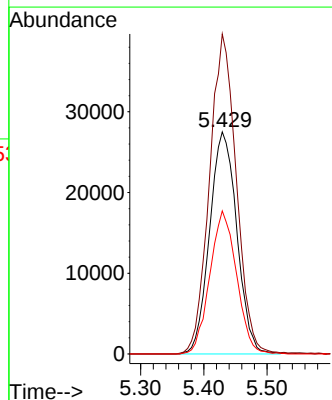
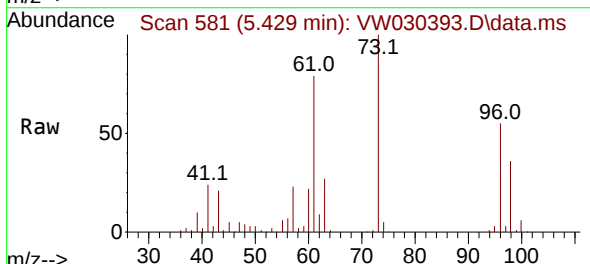
Instrument :
MSVOA_W
ClientSampleId :
A4E72

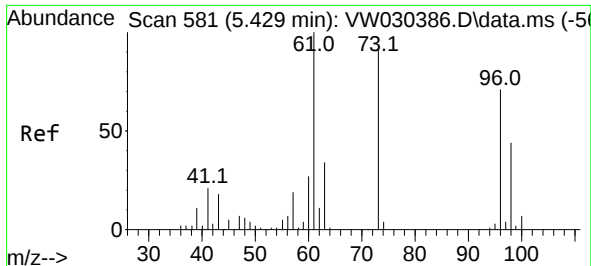
Tgt Ion: 84 Resp: 226663
Ion Ratio Lower Upper
84 100
86 61.8 44.8 83.2
49 121.7 83.6 155.2



#17
trans-1,2-Dichloroethene
Concen: 31.533 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

Tgt Ion: 96 Resp: 82210
Ion Ratio Lower Upper
96 100
61 144.0 100.3 186.3
98 64.4 46.3 86.1

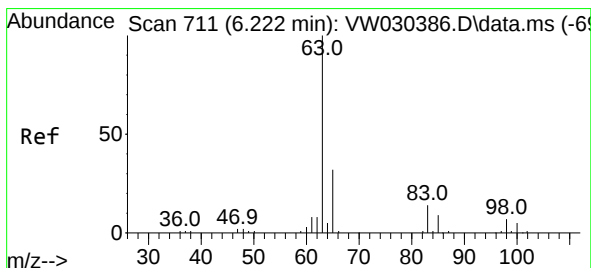
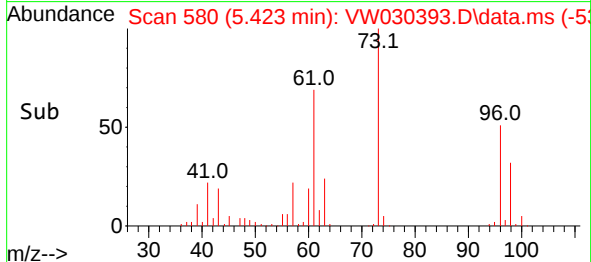
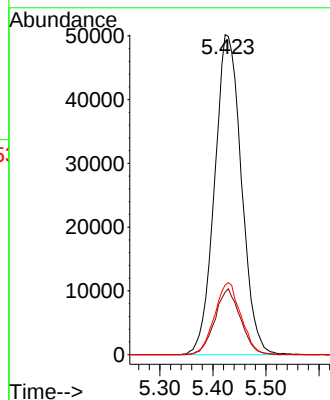
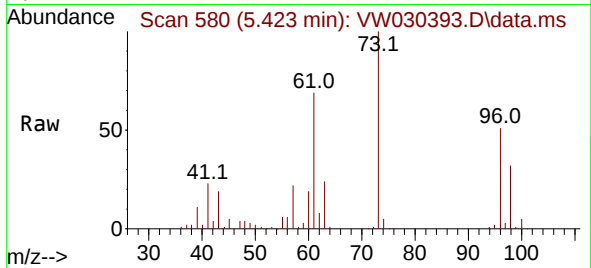




#18
Methyl tert-butyl Ether
Concen: 42.501 ug/L
RT: 5.423 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

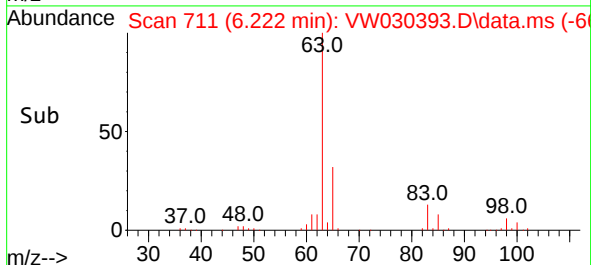
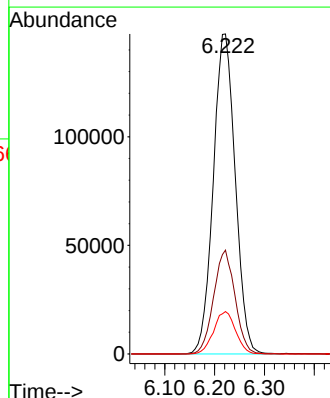
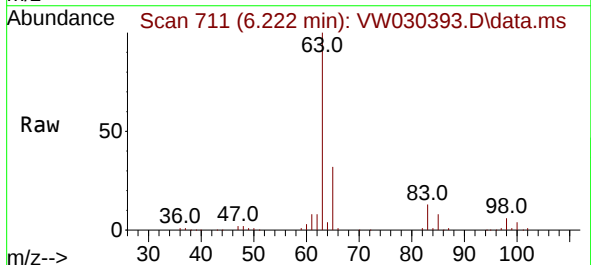
Instrument :
MSVOA_W
ClientSampleId :
A4E72

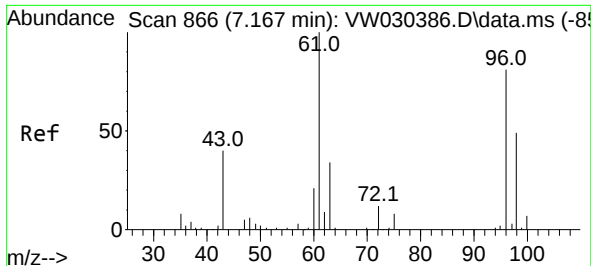
Tgt Ion: 73 Resp: 176240
Ion Ratio Lower Upper
73 100
43 19.7 15.9 23.9
57 22.1 17.6 26.4



#19
1,1-Dichloroethane
Concen: 90.851 ug/L
RT: 6.222 min Scan# 711
Delta R.T. 0.000 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

Tgt Ion: 63 Resp: 451069
Ion Ratio Lower Upper
63 100
65 32.5 20.7 38.5
83 13.2 9.9 18.3





#22

2-Butanone

Concen: 212.219 ug/L

RT: 7.167 min Scan# 866

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

Instrument :

MSVOA_W

ClientSampleId :

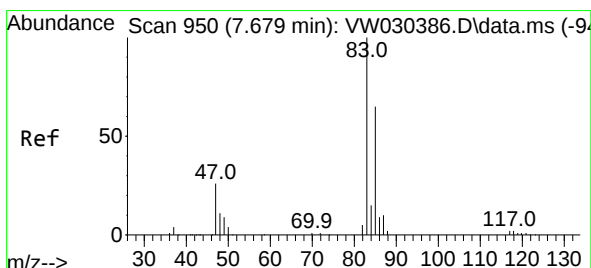
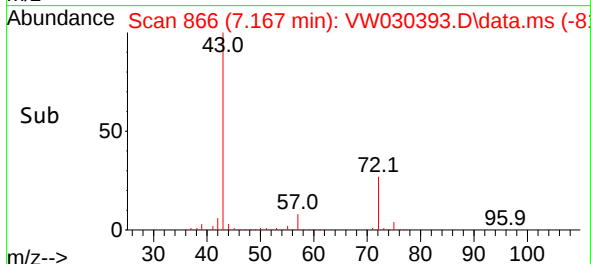
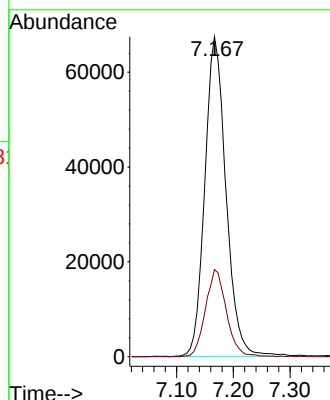
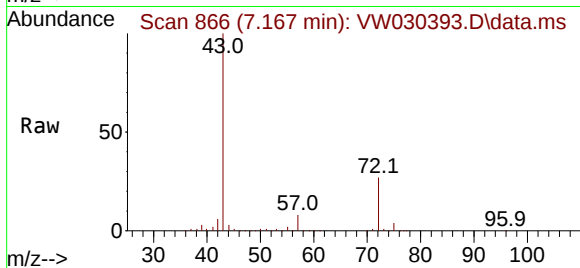
A4E72

Tgt Ion: 43 Resp: 174821

Ion Ratio Lower Upper

43 100

72 26.9 14.1 42.3



#25

Chloroform

Concen: 90.321 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.000 min

Lab File: VW030393.D

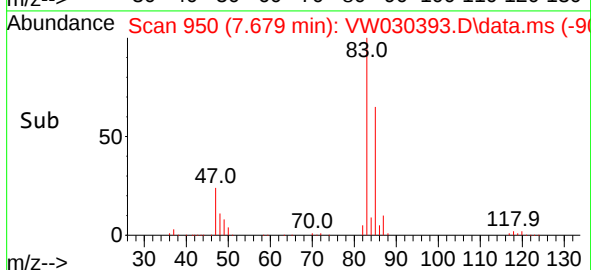
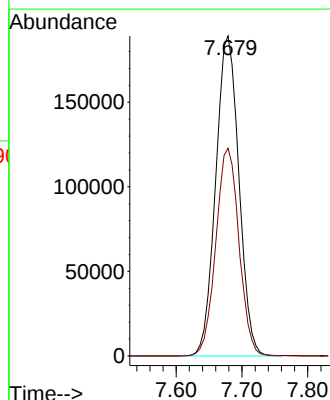
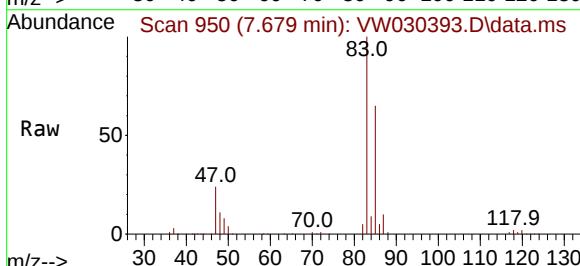
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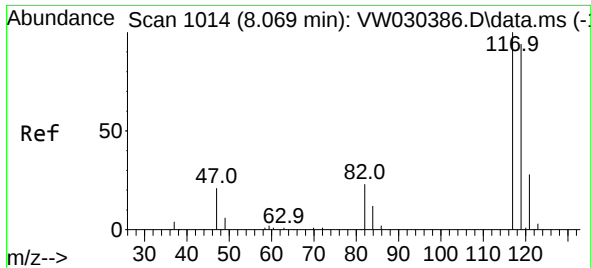
Tgt Ion: 83 Resp: 465067

Ion Ratio Lower Upper

83 100

85 64.9 45.8 85.0

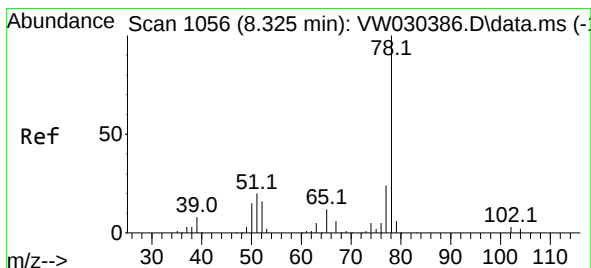
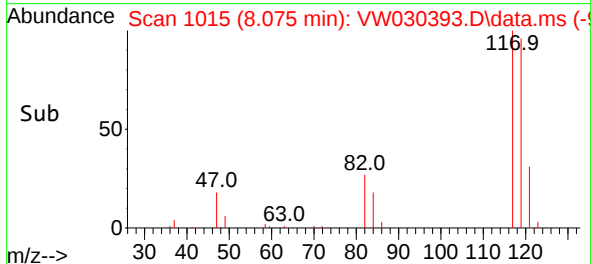
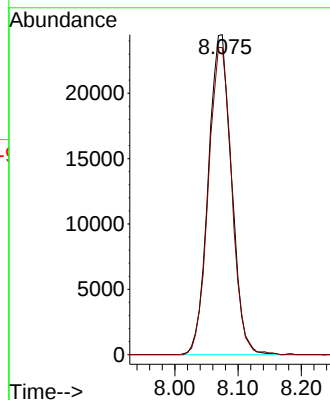
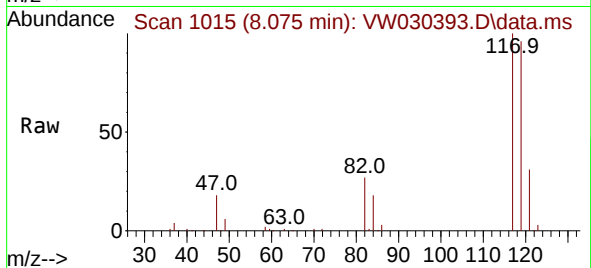




#31
Carbon tetrachloride
Concen: 17.077 ug/L
RT: 8.075 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

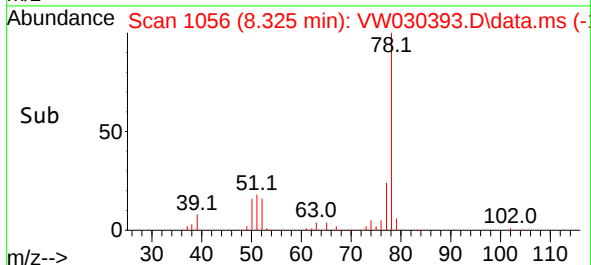
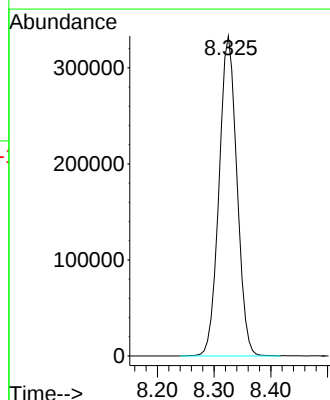
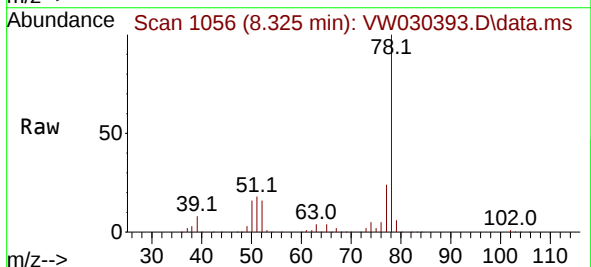
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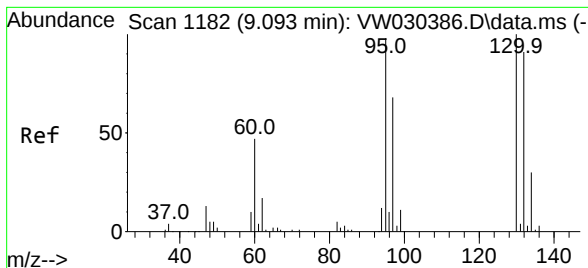
Tgt Ion:117 Resp: 62419
Ion Ratio Lower Upper
117 100
119 96.1 75.5 113.3



#33
Benzene
Concen: 67.872 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

Tgt Ion: 78 Resp: 729845





#34

Trichloroethene

Concen: 99.885 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

Instrument :

MSVOA_W

ClientSampleId :

A4E72

Tgt Ion: 95 Resp: 285704

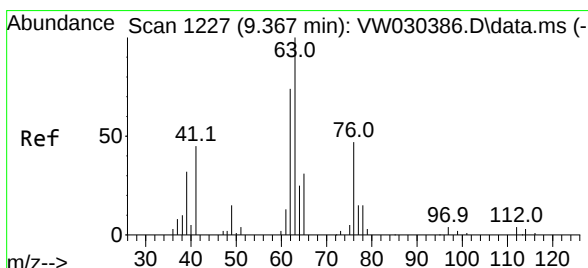
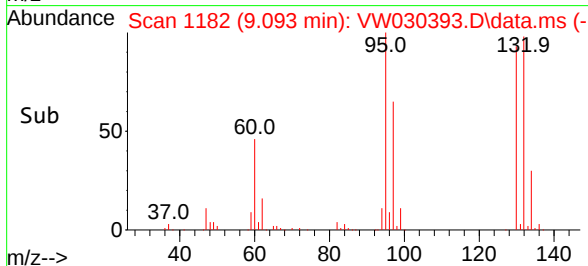
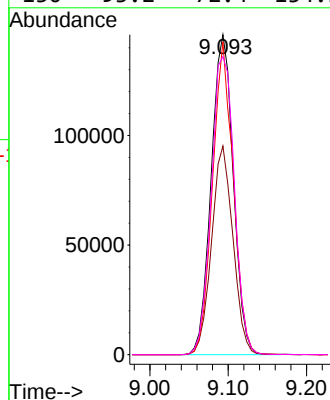
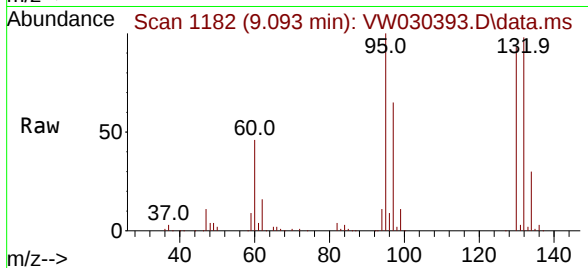
Ion Ratio Lower Upper

95 100

97 65.2 47.5 88.1

132 97.8 66.7 123.9

130 93.2 72.4 134.5



#37

1,2-Dichloropropane

Concen: 38.383 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW030393.D

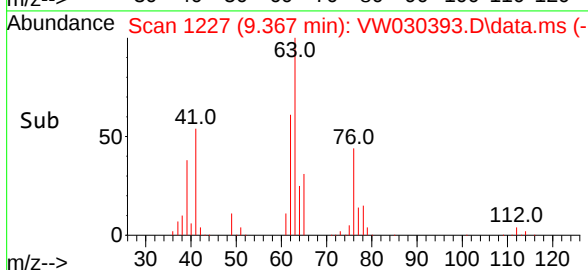
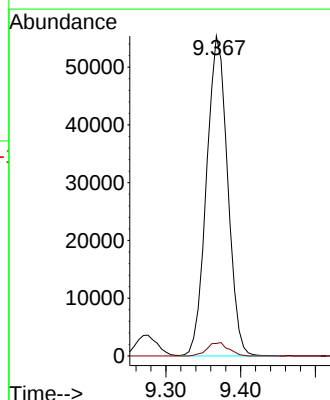
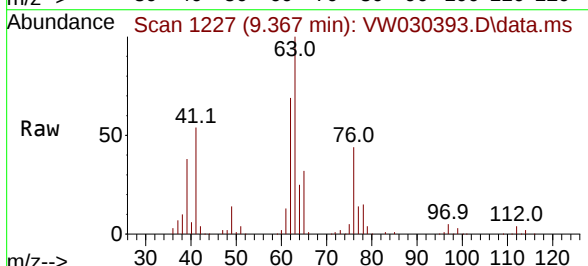
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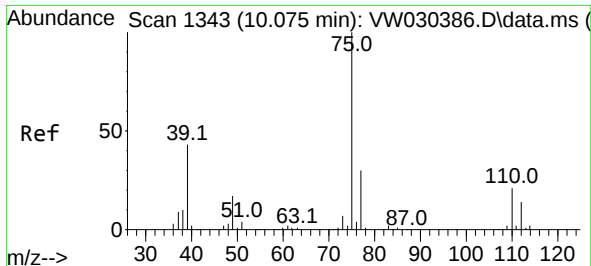
Tgt Ion: 63 Resp: 108900

Ion Ratio Lower Upper

63 100

112 4.2 3.4 5.2





#39

cis-1,3-Dichloropropene

Concen: 65.118 ug/L

RT: 10.075 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

Instrument :

MSVOA_W

ClientSampleId :

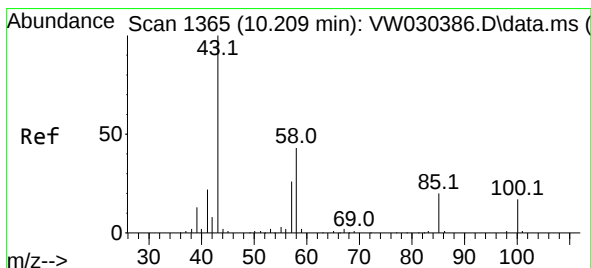
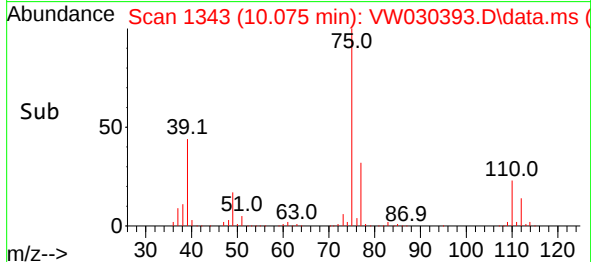
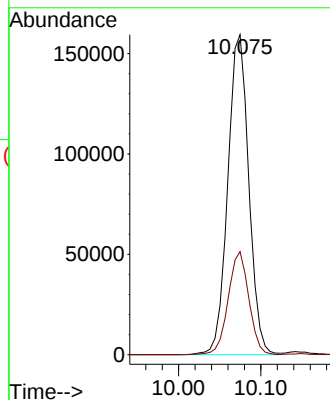
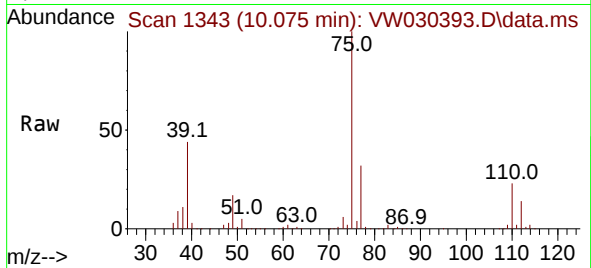
A4E72

Tgt Ion: 75 Resp: 283288

Ion Ratio Lower Upper

75 100

77 32.2 22.0 40.8



#40

4-Methyl-2-pentanone

Concen: 156.183 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

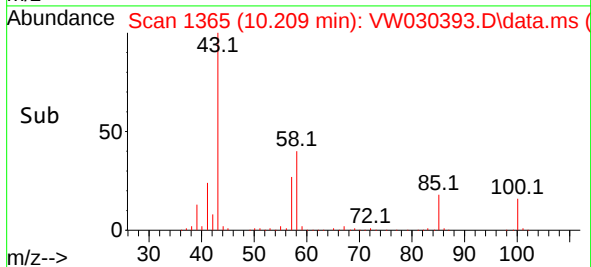
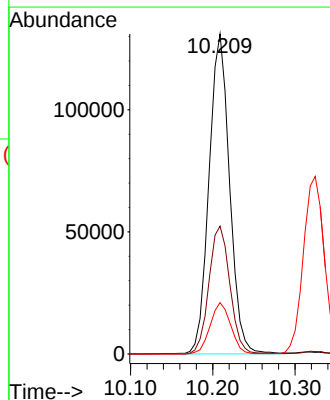
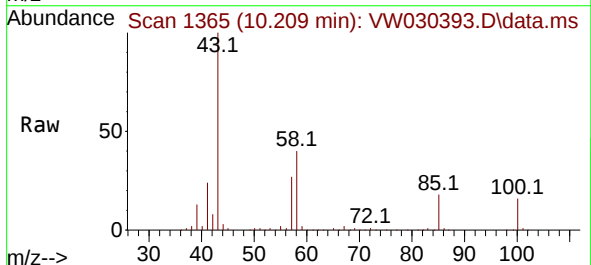
Tgt Ion: 43 Resp: 227918

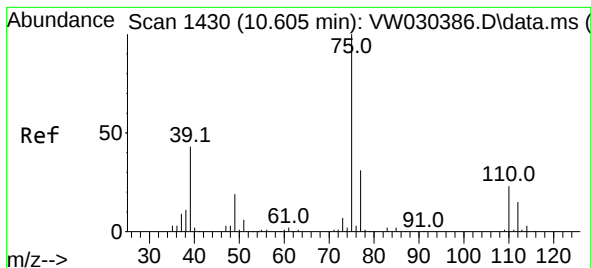
Ion Ratio Lower Upper

43 100

58 40.9 32.6 48.8

100 16.1 12.5 18.7





#44

trans-1,3-Dichloropropene

Concen: 73.944 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

Instrument :

MSVOA_W

ClientSampleId :

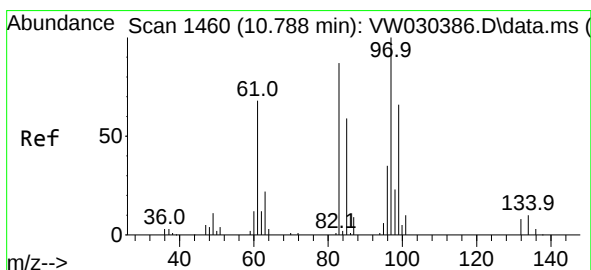
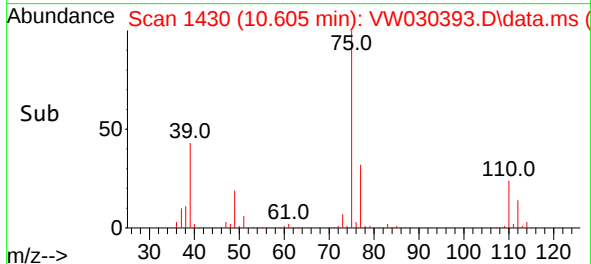
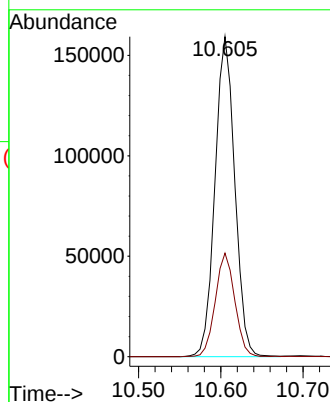
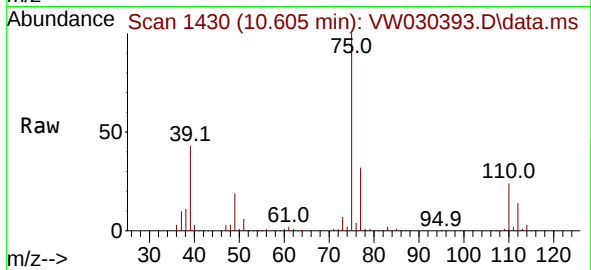
A4E72

Tgt Ion: 75 Resp: 266548

Ion Ratio Lower Upper

75 100

77 32.4 20.8 38.6



#45

1,1,2-Trichloroethane

Concen: 51.952 ug/L

RT: 10.788 min Scan# 1460

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

Tgt Ion: 97 Resp: 103872

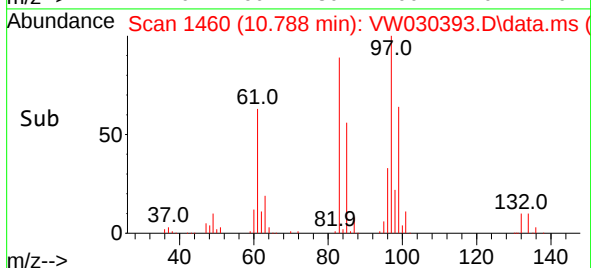
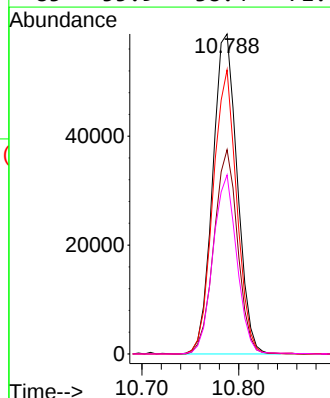
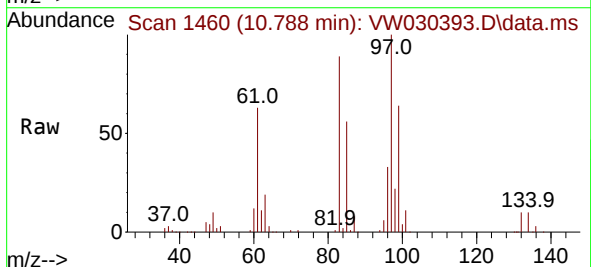
Ion Ratio Lower Upper

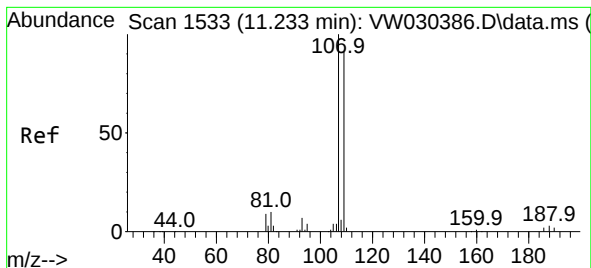
97 100

99 63.9 40.8 75.8

83 88.8 59.1 109.7

85 55.9 38.4 71.4

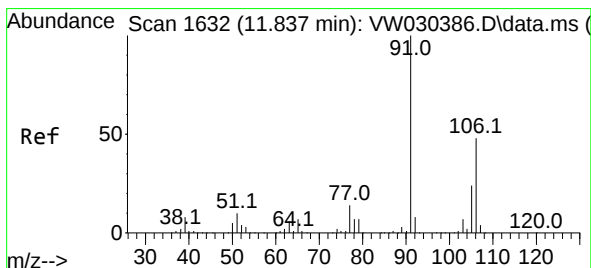
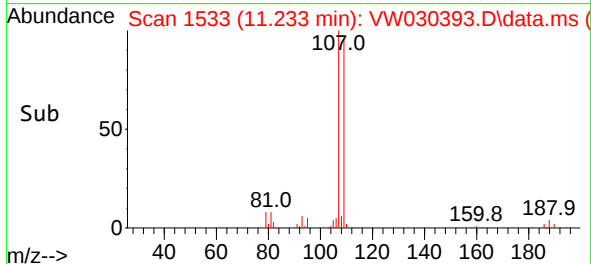
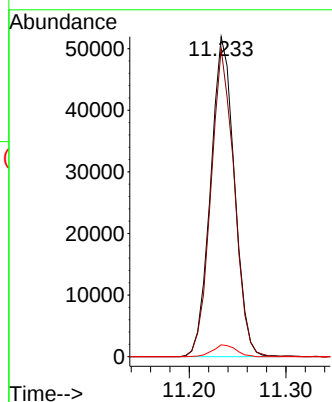
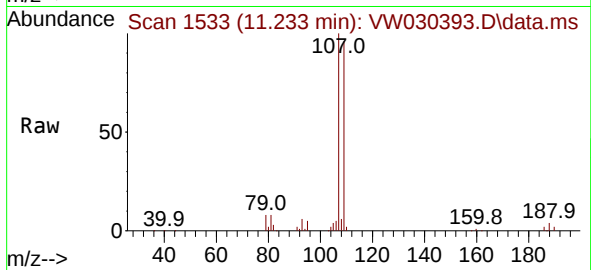




#50
1,2-Dibromoethane
Concen: 47.047 ug/L
RT: 11.233 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

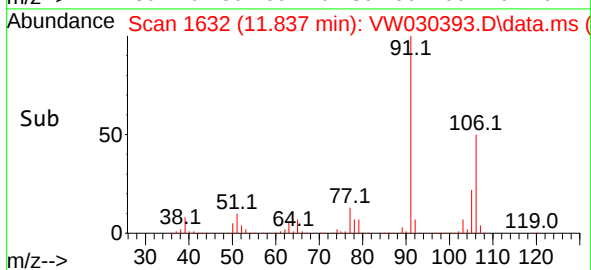
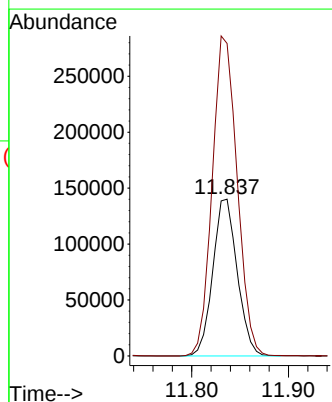
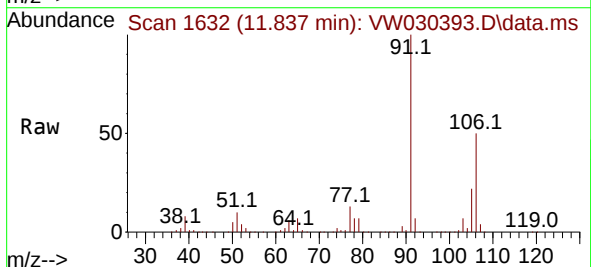
Instrument :
MSVOA_W
ClientSampleId :
A4E72

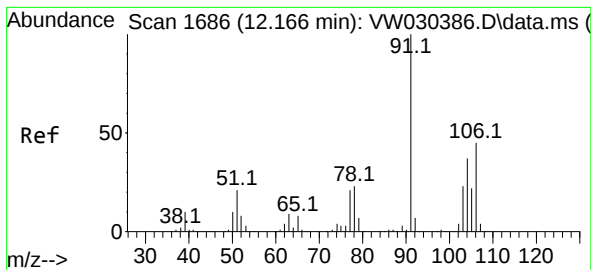
Tgt Ion:107 Resp: 89006
Ion Ratio Lower Upper
107 100
109 96.2 67.8 125.8
188 3.7 2.9 4.3



#53
m,p-Xylene
Concen: 50.455 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

Tgt Ion:106 Resp: 245632
Ion Ratio Lower Upper
106 100
91 199.2 144.4 268.2





#54

o-Xylene

Concen: 66.286 ug/L

RT: 12.166 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

Instrument :

MSVOA_W

ClientSampleId :

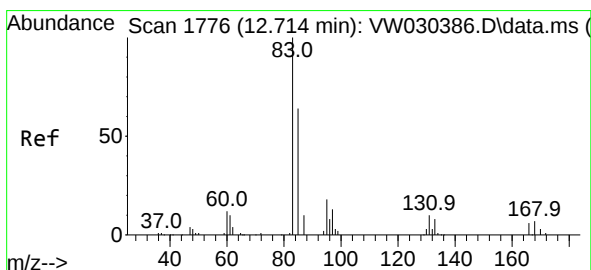
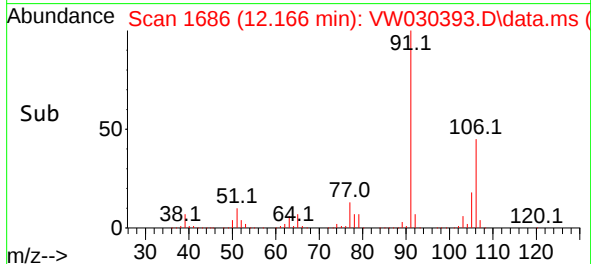
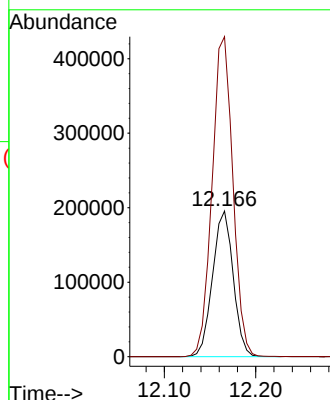
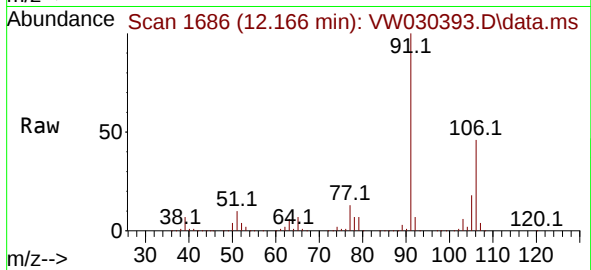
A4E72

Tgt Ion:106 Resp: 307148

Ion Ratio Lower Upper

106 100

91 219.7 153.6 285.2



#57

1,1,2,2-Tetrachloroethane

Concen: 51.153 ug/L

RT: 12.714 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

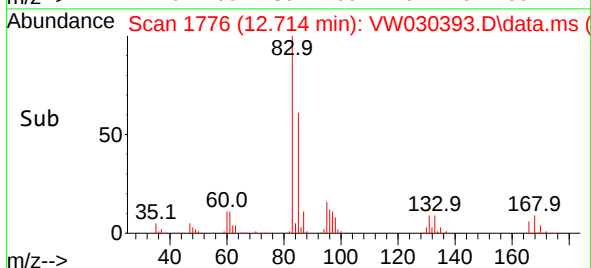
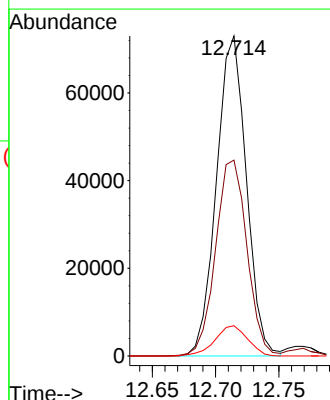
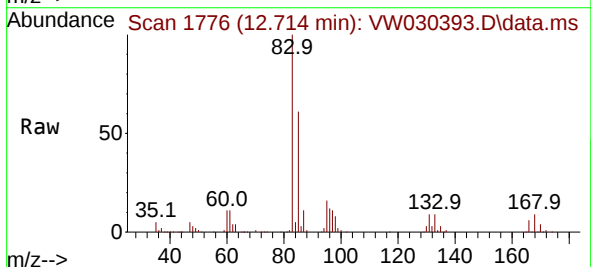
Tgt Ion: 83 Resp: 119781

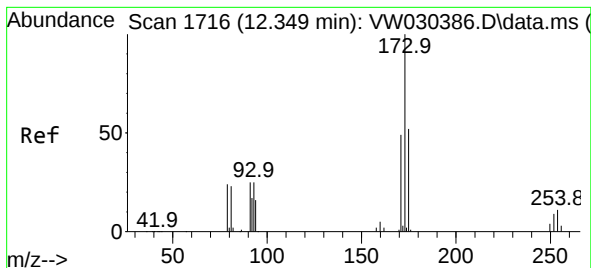
Ion Ratio Lower Upper

83 100

85 61.2 43.9 81.5

131 9.4 7.1 10.7





#59

Bromoform

Concen: 19.183 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

Instrument :

MSVOA_W

ClientSampleId :

A4E72

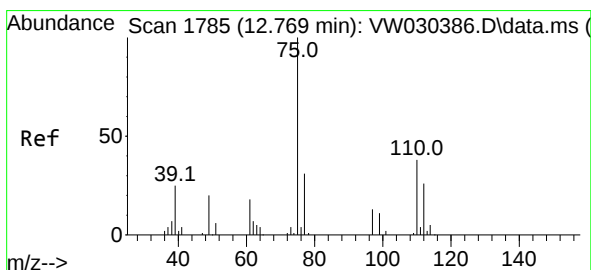
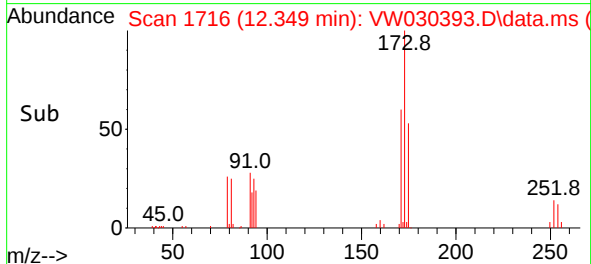
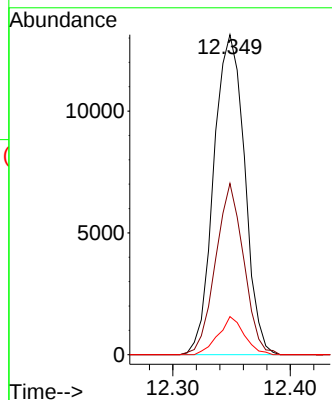
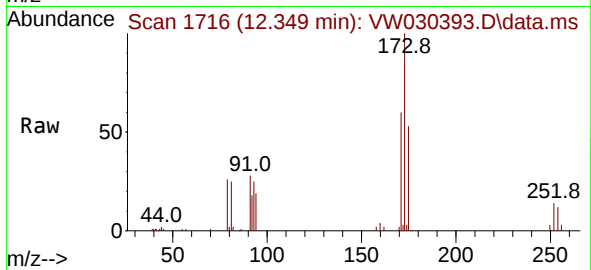
Tgt Ion:173 Resp: 23923

Ion Ratio Lower Upper

173 100

175 49.0 38.7 58.1

254 10.0 7.4 11.2



#61

1,2,3-Trichloropropane

Concen: 83.223 ug/L

RT: 12.769 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VW030393.D

Acq: 04 Oct 2024 15:11

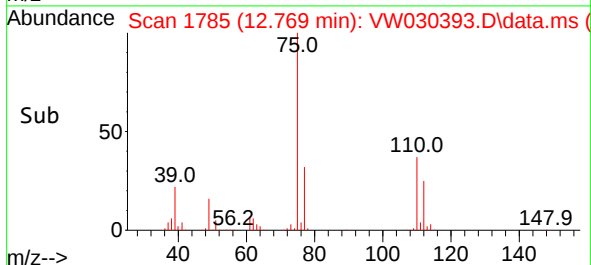
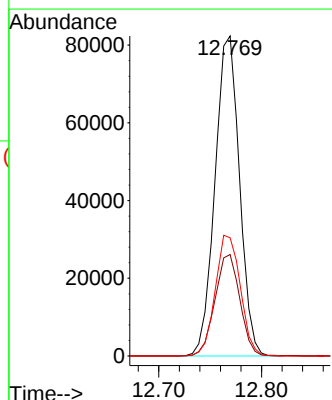
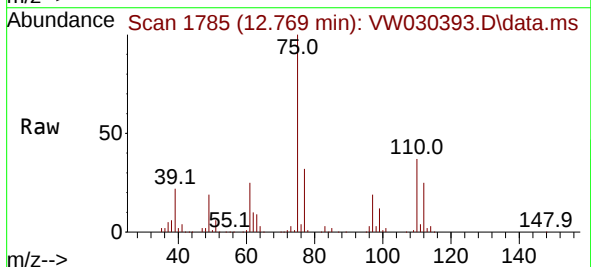
Tgt Ion: 75 Resp: 136193

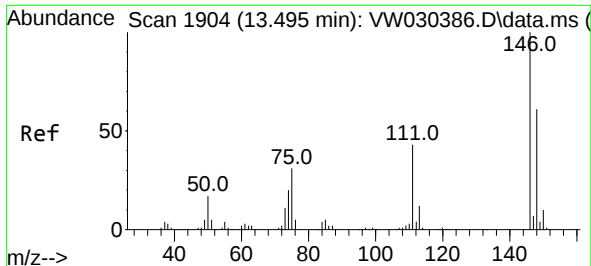
Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.2

110 38.5 30.8 46.2

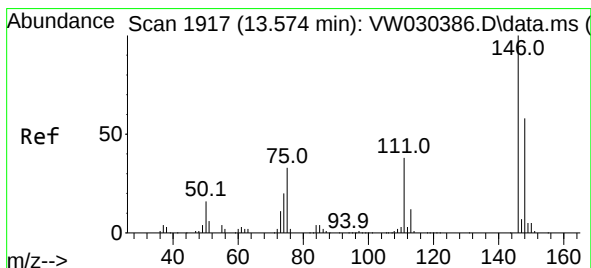
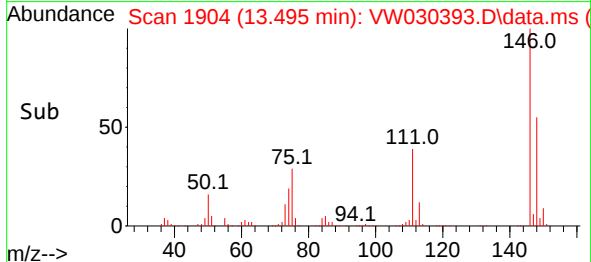
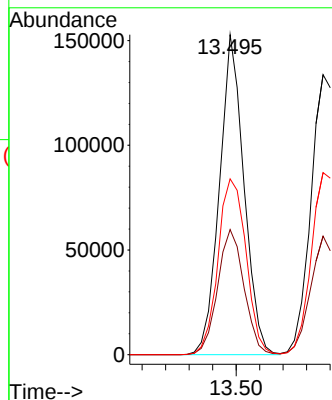
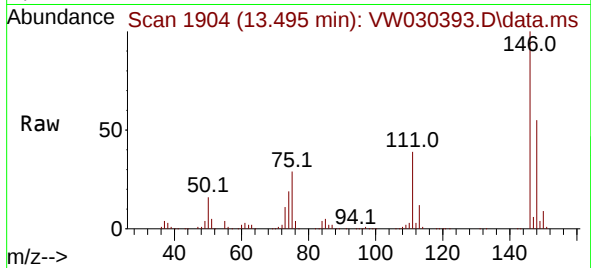




#64
1,3-Dichlorobenzene
Concen: 40.603 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

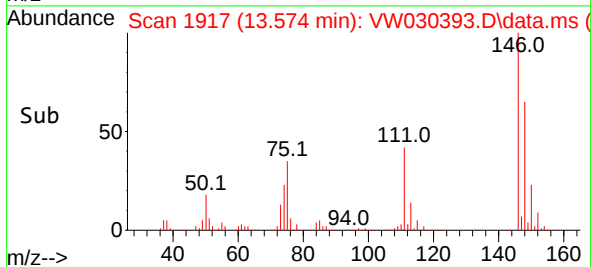
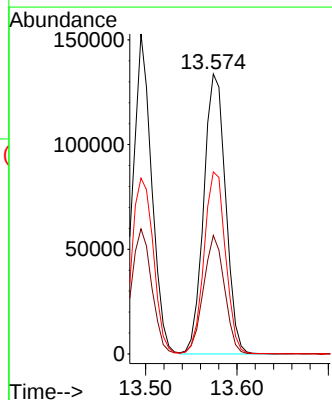
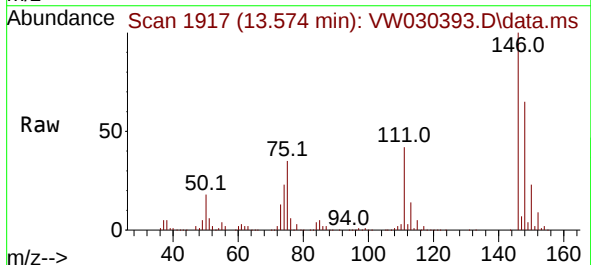
Instrument :
MSVOA_W
ClientSampleId :
A4E72

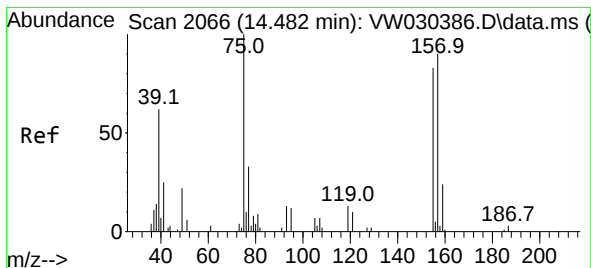
Tgt Ion:146 Resp: 221707
Ion Ratio Lower Upper
146 100
111 39.1 33.2 61.6
148 55.0 50.4 93.6



#65
1,4-Dichlorobenzene
Concen: 39.843 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

Tgt Ion:146 Resp: 222251
Ion Ratio Lower Upper
146 100
111 42.3 29.1 54.1
148 65.1 42.1 78.1

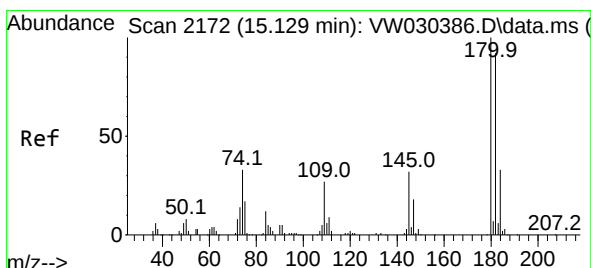
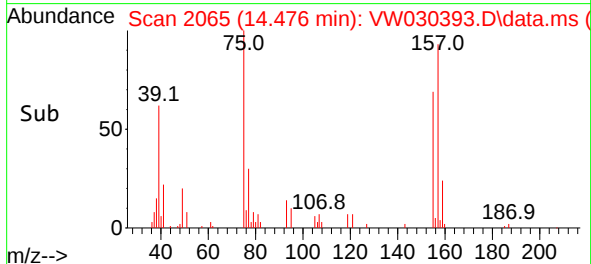
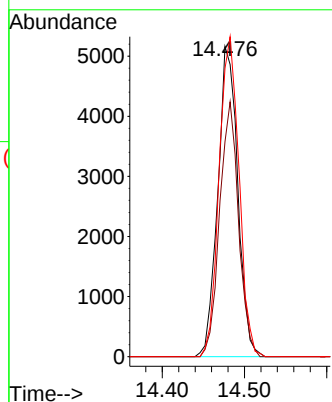
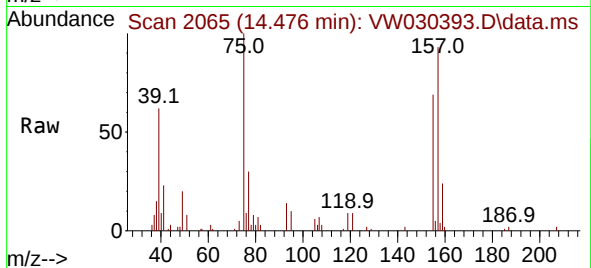




#68
1,2-Dibromo-3-chloropropane
Concen: 23.237 ug/L
RT: 14.476 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

Instrument :
MSVOA_W
ClientSampleId :
A4E72

Tgt Ion: 75 Resp: 8713
Ion Ratio Lower Upper
75 100
155 69.4 60.1 90.1
157 93.0 74.3 111.5



#70
1,2,4-trichlorobenzene
Concen: 19.467 ug/L
RT: 15.129 min Scan# 2172
Delta R.T. 0.000 min
Lab File: VW030393.D
Acq: 04 Oct 2024 15:11

Tgt Ion:180 Resp: 60744
Ion Ratio Lower Upper
180 100
182 93.9 77.2 115.8
145 31.2 25.3 37.9

