

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW061024\
 Data File : VW029088.D
 Acq On : 10 Jun 2024 16:50
 Operator : SY/MD
 Sample : P2776-16DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 11 01:23:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM060324SMA.M
 Quant Title : SFAM01.0
 QLast Update : Tue Jun 11 01:19:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	314716	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	286971	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	141737	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	96524	19.306	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.240%
7) Chloroethane-d5	2.899	69	75580	19.686	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.760%
11) 1,1-Dichloroethene-d2	4.027	65	44890	20.428	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.720%
21) 2-Butanone-d5	7.075	46	60139	58.873	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.740%
24) Chloroform-d	7.648	84	193478	21.549	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.200%
26) 1,2-Dichloroethane-d4	8.307	65	109397	23.143	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.560%
32) Benzene-d6	8.276	84	391441	22.224	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.880%
36) 1,2-Dichloropropane-d6	9.270	67	122409	22.921	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.680%
41) Toluene-d8	10.325	98	349923	22.263	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	89.040%
43) trans-1,3-Dichloroprop...	10.575	79	47458	23.127	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.520%
47) 2-Hexanone-d5	10.922	63	43474	61.688	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	123.380%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	98941	26.669	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.680%
66) 1,2-Dichlorobenzene-d4	13.848	152	118300	23.520	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.080%
Target Compounds						
					Qvalue	
13) Acetone	4.118	43	108364	101.227	ug/L	100
16) Methylene chloride	4.923	84	114032	24.142	ug/L	98
17) trans-1,2-Dichloroethene	5.429	96	56893	13.117	ug/L	98
18) Methyl tert-butyl Ether	5.423	73	67282	11.124	ug/L	98
20) cis-1,2-Dichloroethene	7.167	96	74162	16.310	ug/L	98
22) 2-Butanone	7.167	43	89365	69.278	ug/L	99
27) 1,2-Dichloroethane	8.398	62	105021	18.922	ug/L	98
31) Carbon tetrachloride	8.069	117	229426	37.882	ug/L	96
33) Benzene	8.325	78	496161	27.806	ug/L	100
34) Trichloroethene	9.093	95	233202	49.711	ug/L	92
37) 1,2-Dichloropropane	9.367	63	120448	25.777	ug/L	100
38) Bromodichloromethane	9.648	83	166076	29.142	ug/L	97
39) cis-1,3-Dichloropropene	10.069	75	197804	29.128	ug/L	98
40) 4-Methyl-2-pentanone	10.209	43	299258	125.911	ug/L	99
44) trans-1,3-Dichloropropene	10.605	75	107582	19.651	ug/L	96
45) 1,1,2-Trichloroethane	10.782	97	75633	23.966	ug/L	94
46) Tetrachloroethene	10.861	164	94595	26.541	ug/L	87
48) 2-Hexanone	10.965	43	121016	67.911	ug/L	99
49) Dibromochloromethane	11.129	129	54456	16.337	ug/L	95

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

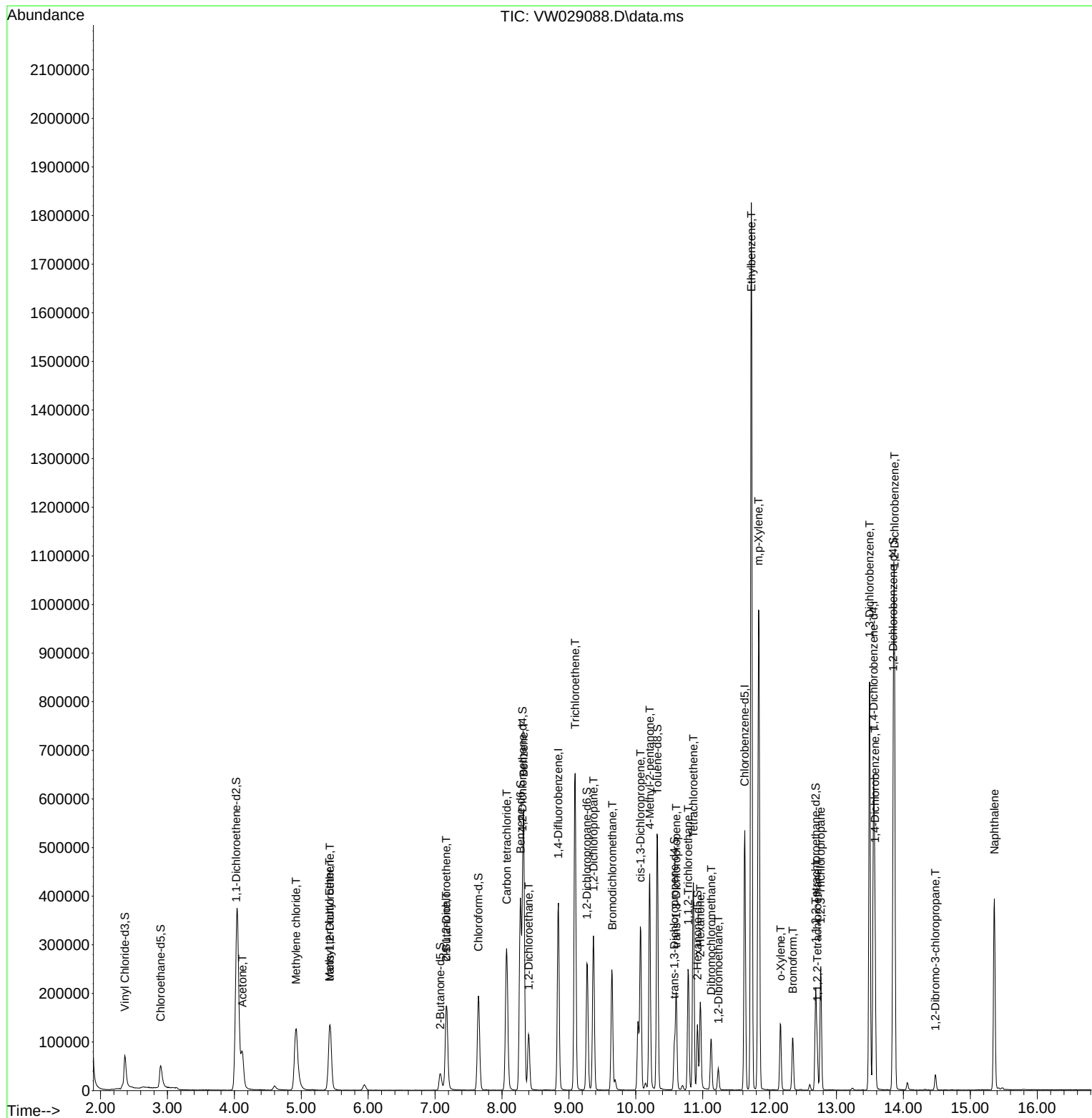
50) 1,2-Dibromoethane	11.233	107	28318	9.830	ug/L	97
52) Ethylbenzene	11.727	91	923467	44.588	ug/L	98
53) m,p-Xylene	11.837	106	299538	39.047	ug/L	92
54) o-Xylene	12.166	106	35266	4.965	ug/L	96
57) 1,1,2,2-Tetrachloroethane	12.714	83	39513	11.091	ug/L	97
59) Bromoform	12.349	173	47794	26.223	ug/L	97
61) 1,2,3-Trichloropropane	12.763	75	104081	38.930	ug/L	98
64) 1,3-Dichlorobenzene	13.495	146	313641	36.385	ug/L	91
65) 1,4-Dichlorobenzene	13.574	146	125961	13.991	ug/L	95
67) 1,2-Dichlorobenzene	13.867	146	347858	45.024	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.476	75	8267	14.507	ug/L #	88
71) Naphthalene	15.360	128	324697	39.727	ug/L	100

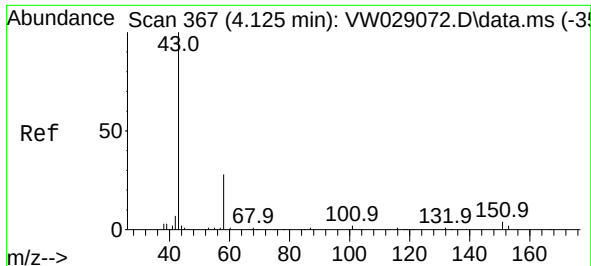
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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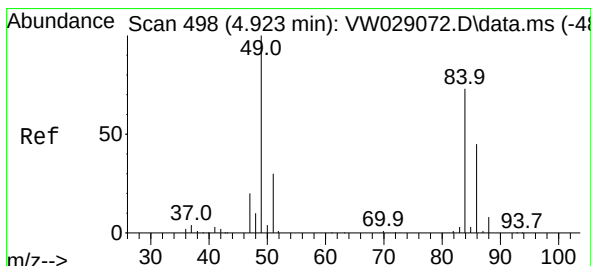
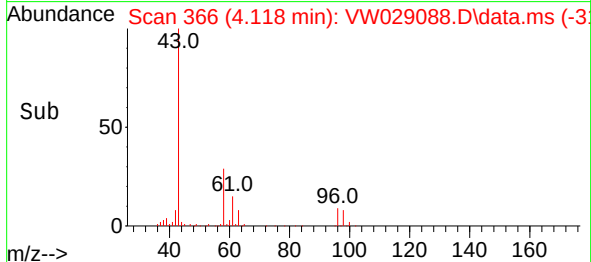
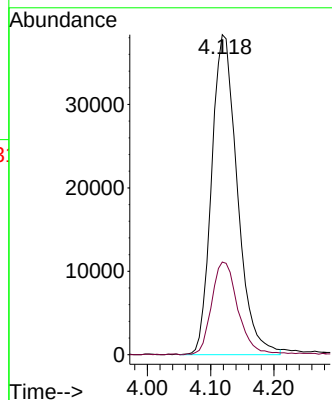
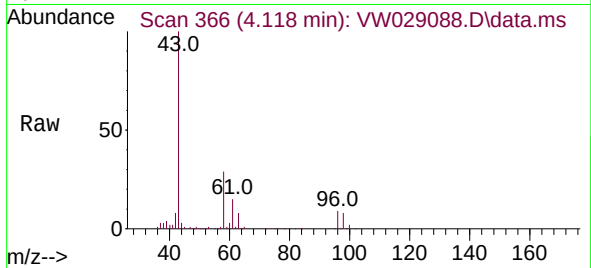




#13
Acetone
Concen: 101.227 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.006 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

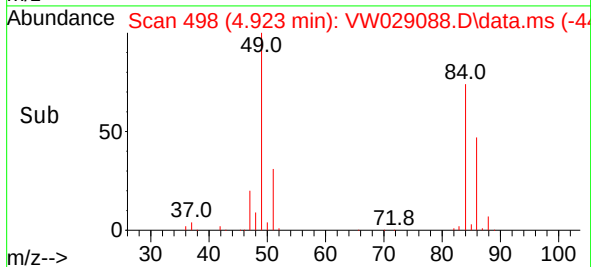
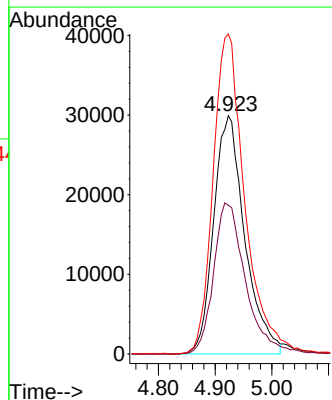
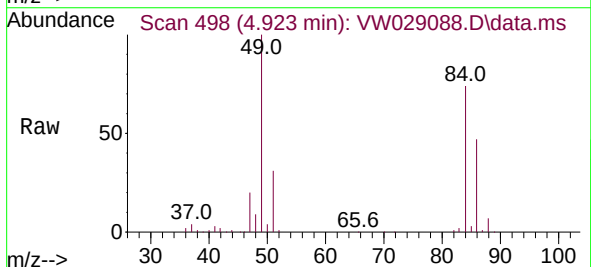
Instrument :
MSVOA_W
ClientSampleId :

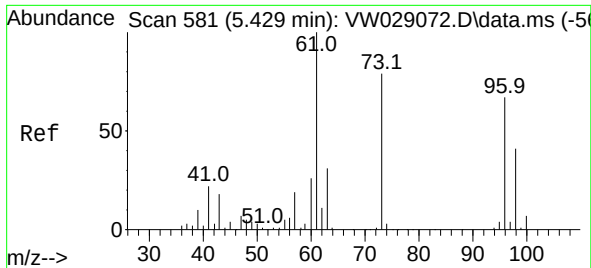
Tgt Ion: 43 Resp: 108364
Ion Ratio Lower Upper
43 100
58 29.7 0.0 59.4



#16
Methylene chloride
Concen: 24.142 ug/L
RT: 4.923 min Scan# 498
Delta R.T. -0.000 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

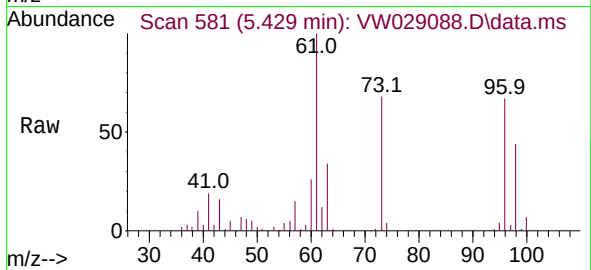
Tgt Ion: 84 Resp: 114032
Ion Ratio Lower Upper
84 100
86 62.5 43.8 81.4
49 134.3 91.3 169.5





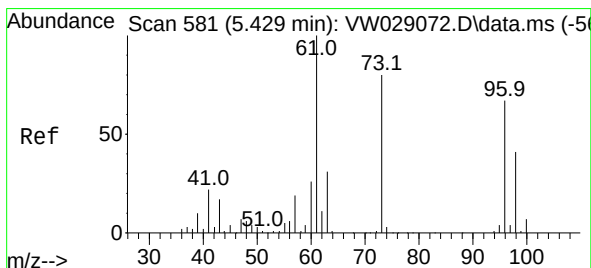
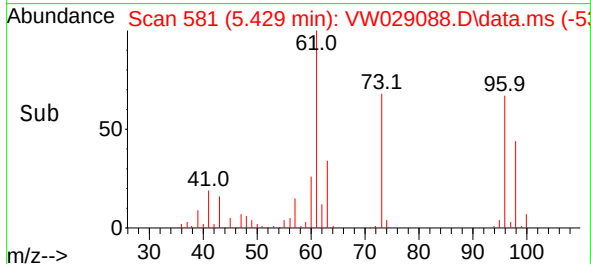
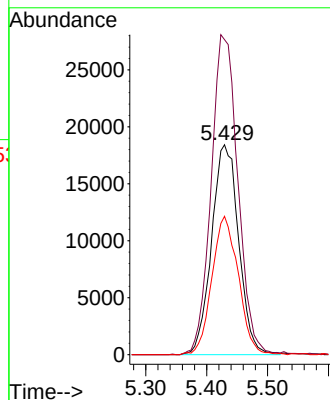
#17
trans-1,2-Dichloroethene
Concen: 13.117 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.000 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion: 96 Resp: 56893

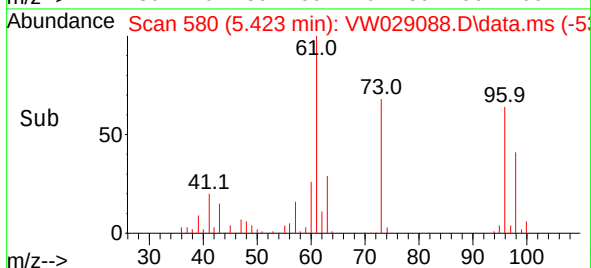
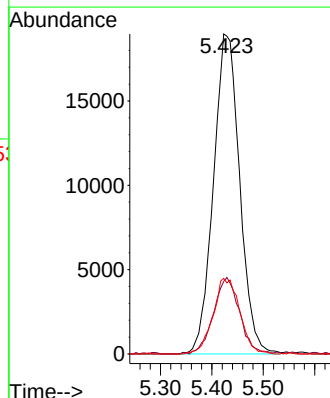
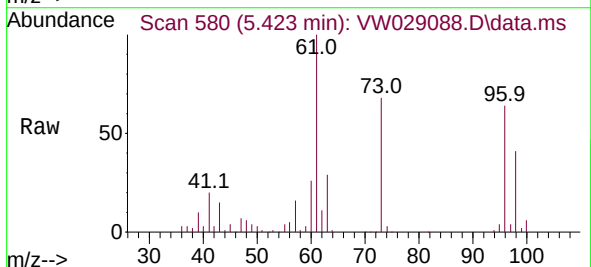
Ion	Ratio	Lower	Upper
96	100		
61	150.0	104.6	194.2
98	65.9	44.0	81.8

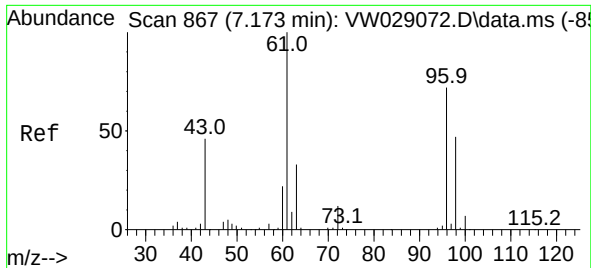


#18
Methyl tert-butyl Ether
Concen: 11.124 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

Tgt Ion: 73 Resp: 67282

Ion	Ratio	Lower	Upper
73	100		
43	23.5	17.8	26.6
57	23.7	18.4	27.6

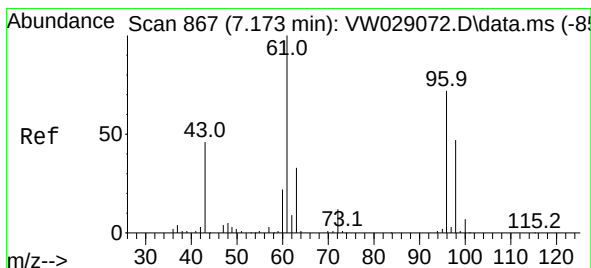
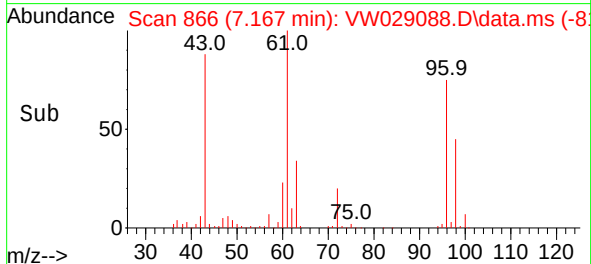
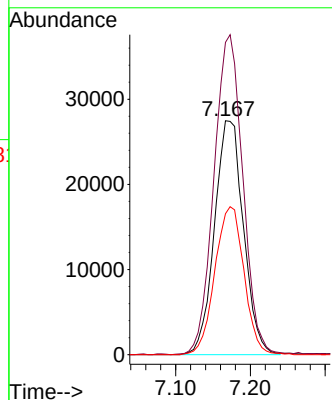
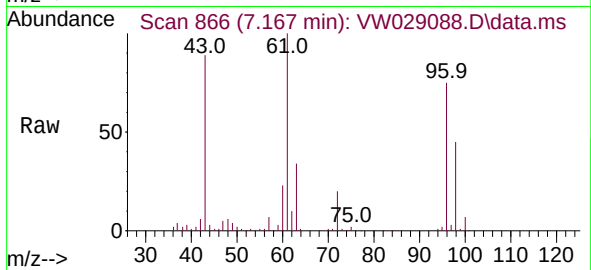




#20
cis-1,2-Dichloroethene
Concen: 16.310 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.006 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

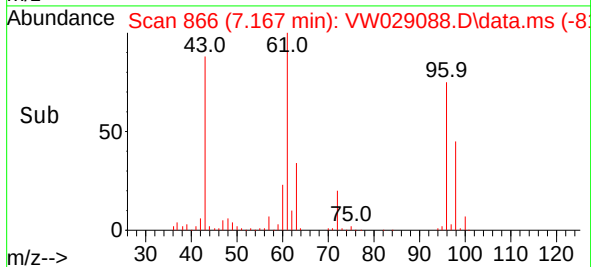
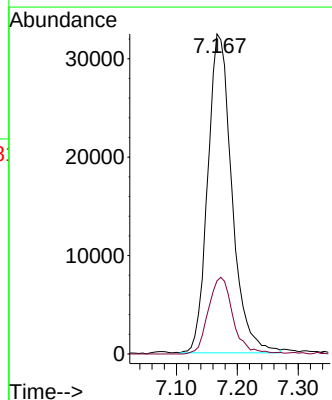
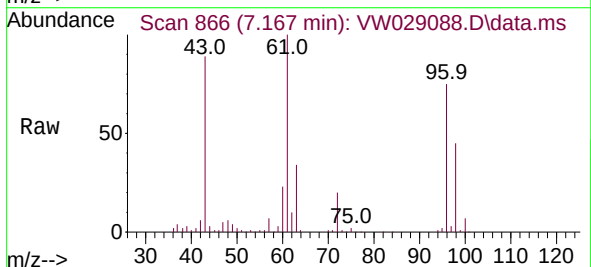
Instrument :
MSVOA_W
ClientSampleId :

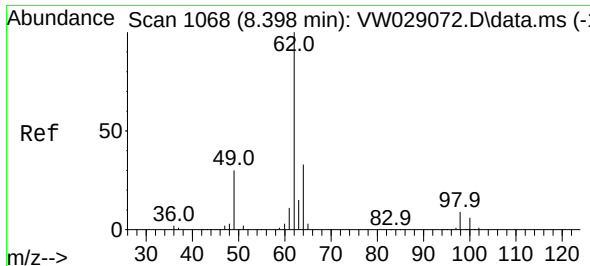
Tgt Ion: 96 Resp: 74162
Ion Ratio Lower Upper
96 100
61 133.5 92.9 172.5
98 60.3 45.2 84.0



#22
2-Butanone
Concen: 69.278 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.006 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

Tgt Ion: 43 Resp: 89365
Ion Ratio Lower Upper
43 100
72 24.4 12.5 37.5





#27

1,2-Dichloroethane

Concen: 18.922 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

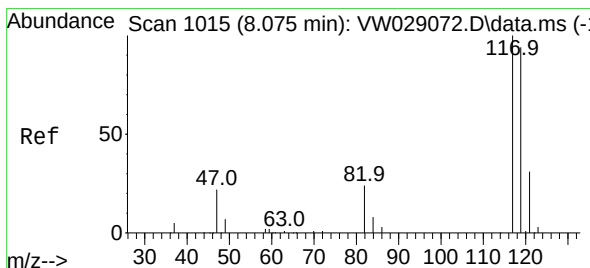
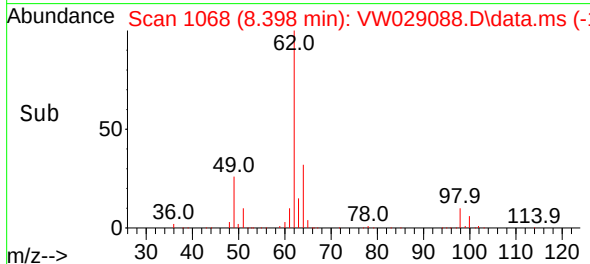
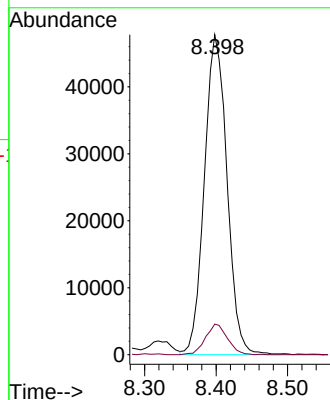
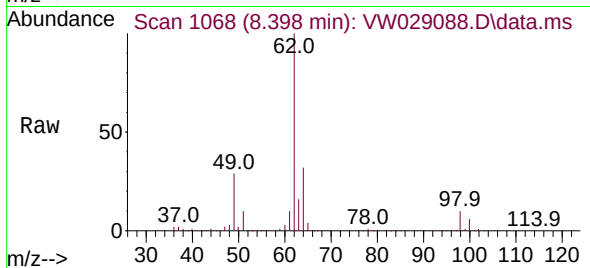
ClientSampleId :

Tgt Ion: 62 Resp: 105021

Ion Ratio Lower Upper

62 100

98 9.6 7.1 10.7



#31

Carbon tetrachloride

Concen: 37.882 ug/L

RT: 8.069 min Scan# 1014

Delta R.T. -0.006 min

Lab File: VW029088.D

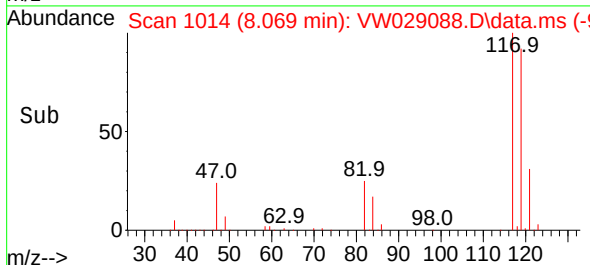
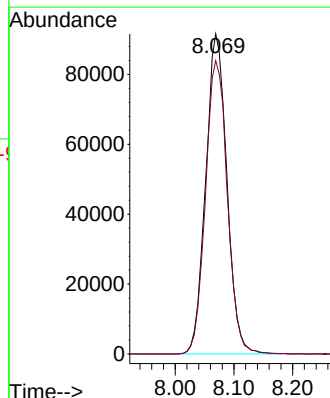
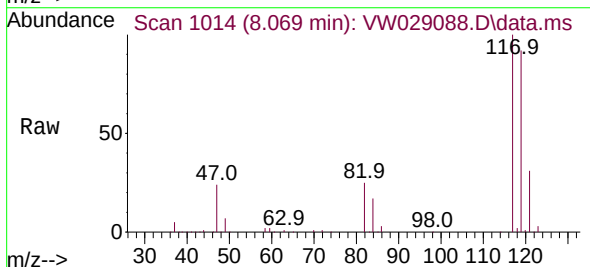
Acq: 10 Jun 2024 16:50

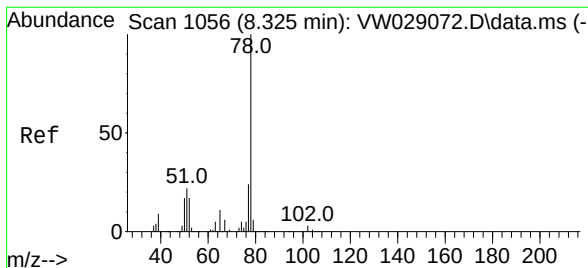
Tgt Ion: 117 Resp: 229426

Ion Ratio Lower Upper

117 100

119 94.5 78.8 118.2





#33

Benzene

Concen: 27.806 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VW029088.D

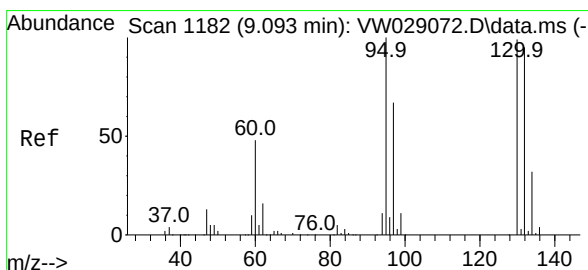
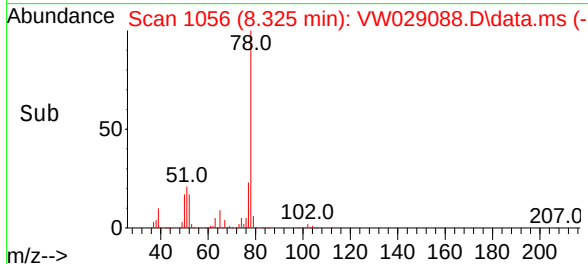
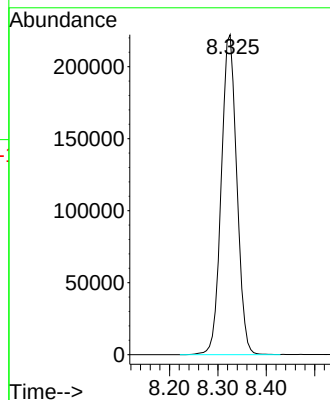
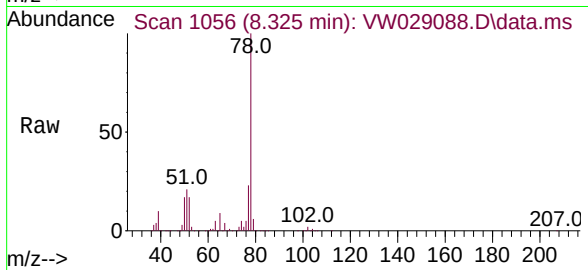
Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 496161



#34

Trichloroethene

Concen: 49.711 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Tgt Ion: 95 Resp: 233202

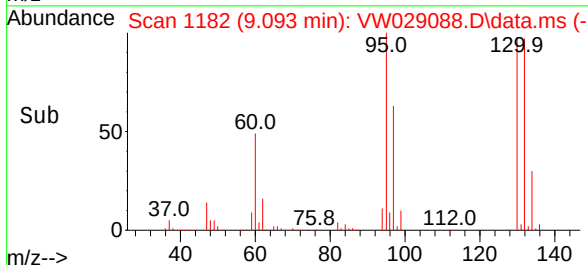
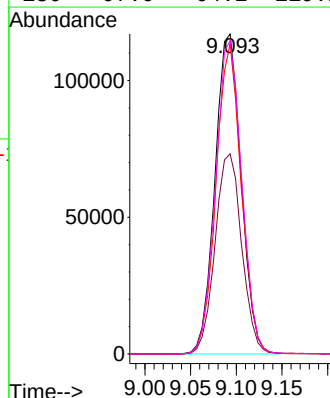
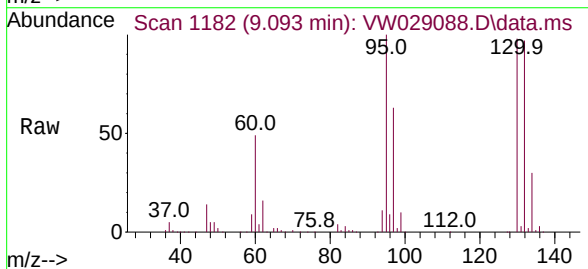
Ion Ratio Lower Upper

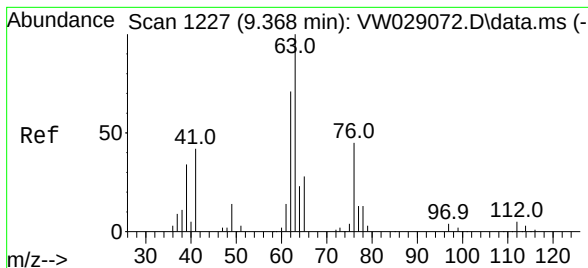
95 100

97 62.5 41.9 77.7

132 96.9 60.1 111.5

130 97.9 64.2 119.2





#37

1,2-Dichloropropane

Concen: 25.777 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

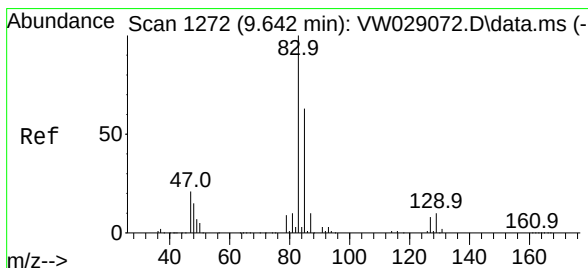
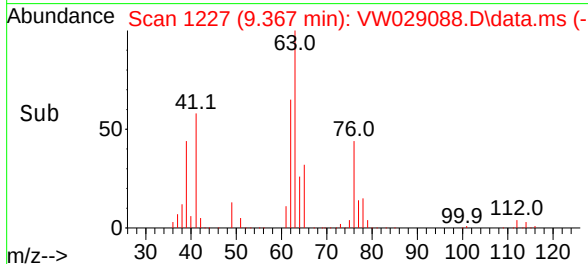
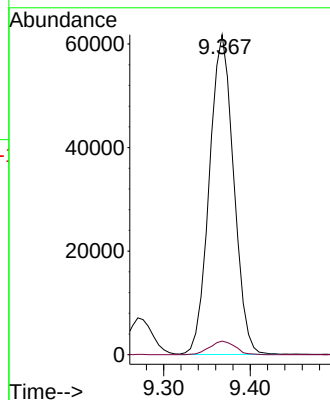
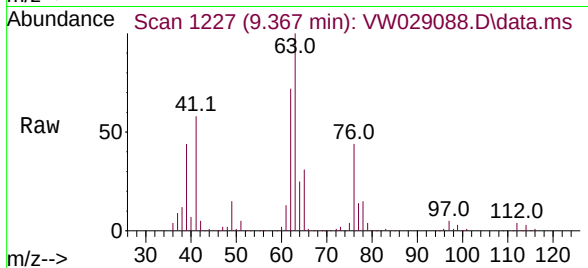
ClientSampleId :

Tgt Ion: 63 Resp: 120448

Ion Ratio Lower Upper

63 100

112 4.4 3.6 5.4



#38

Bromodichloromethane

Concen: 29.142 ug/L

RT: 9.648 min Scan# 1273

Delta R.T. 0.006 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

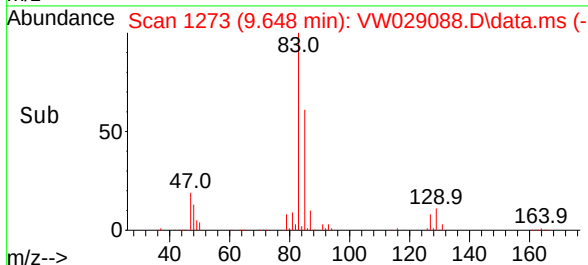
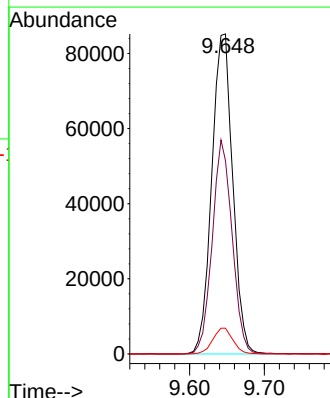
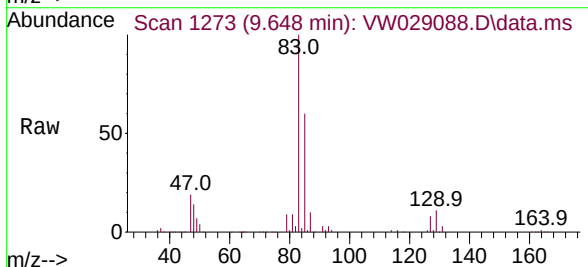
Tgt Ion: 83 Resp: 166076

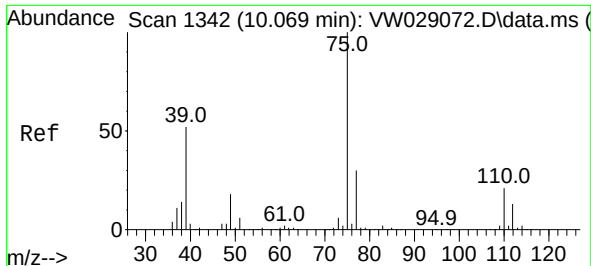
Ion Ratio Lower Upper

83 100

85 60.4 43.9 81.5

127 8.0 5.4 8.2





#39

cis-1,3-Dichloropropene

Concen: 29.128 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

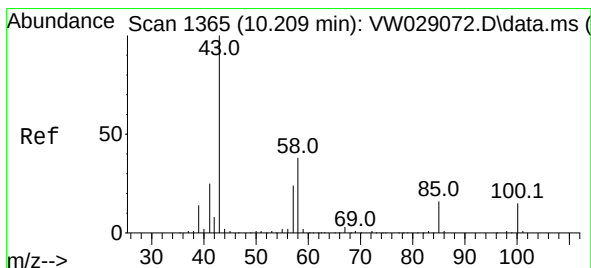
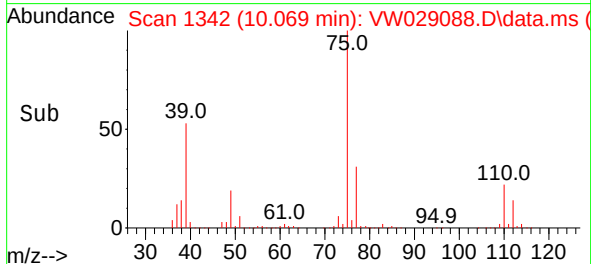
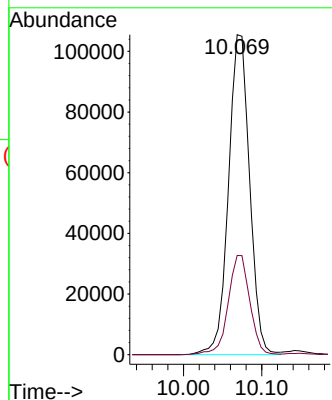
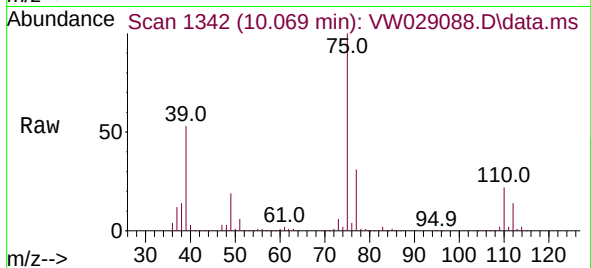
ClientSampleId :

Tgt Ion: 75 Resp: 197804

Ion Ratio Lower Upper

75 100

77 31.0 21.0 39.0



#40

4-Methyl-2-pentanone

Concen: 125.911 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

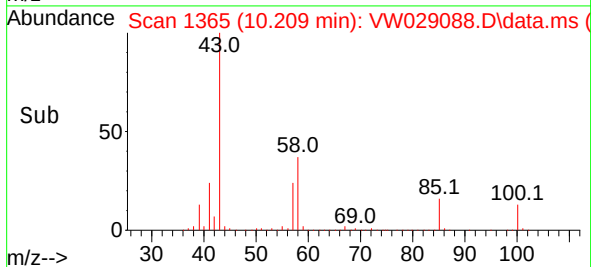
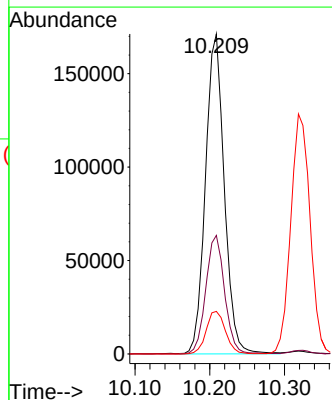
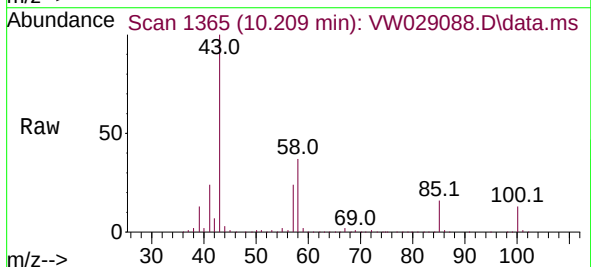
Tgt Ion: 43 Resp: 299258

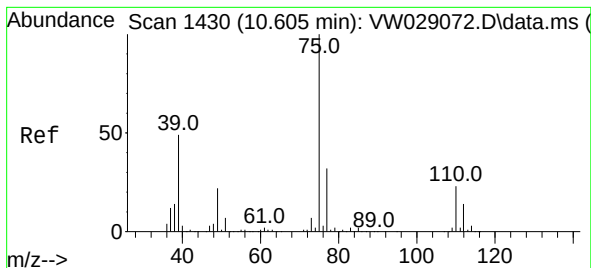
Ion Ratio Lower Upper

43 100

58 37.1 30.3 45.5

100 13.7 10.7 16.1





#44

trans-1,3-Dichloropropene

Concen: 19.651 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

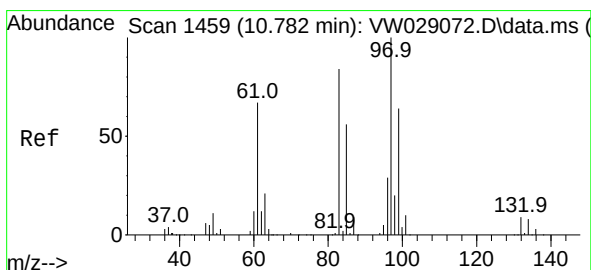
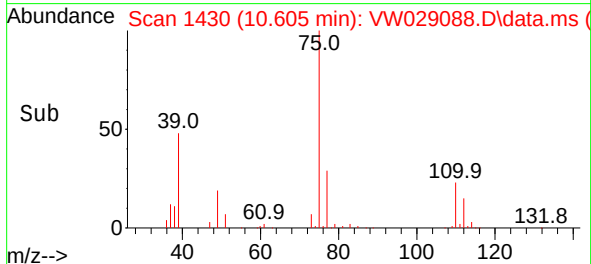
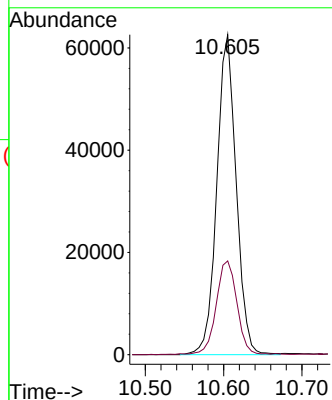
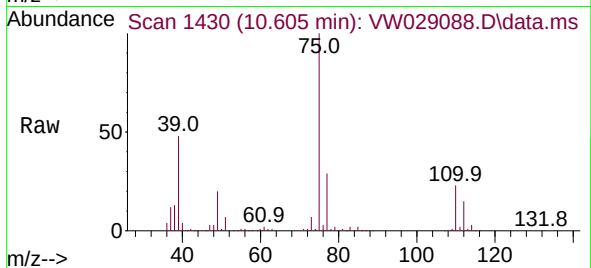
ClientSampleId :

Tgt Ion: 75 Resp: 107582

Ion Ratio Lower Upper

75 100

77 29.3 22.0 40.8



#45

1,1,2-Trichloroethane

Concen: 23.966 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Tgt Ion: 97 Resp: 75633

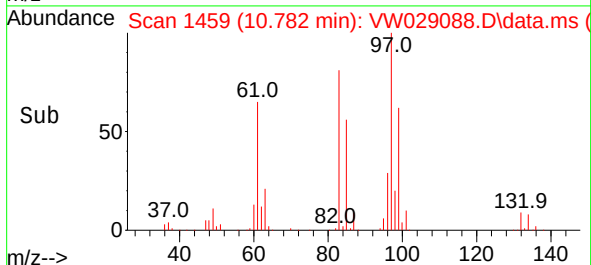
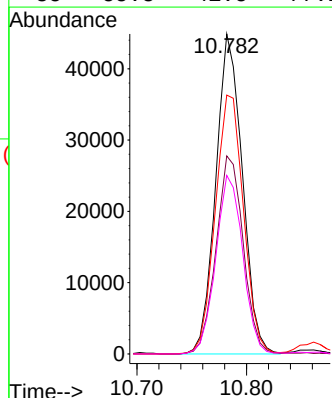
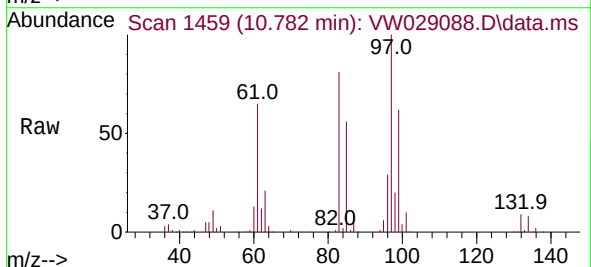
Ion Ratio Lower Upper

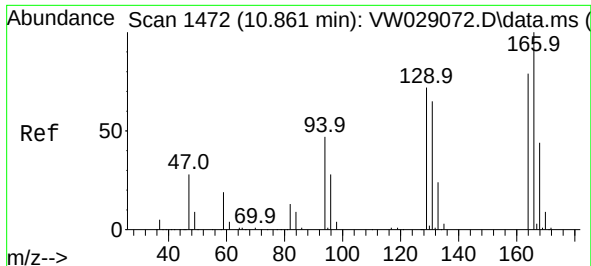
97 100

99 61.9 41.8 77.6

83 80.9 62.4 115.8

85 55.8 41.5 77.1





#46

Tetrachloroethene

Concen: 26.541 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. -0.000 min

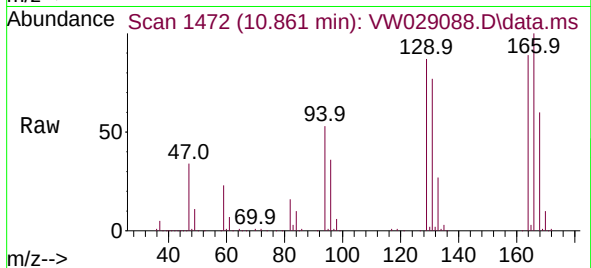
Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:164 Resp: 94595

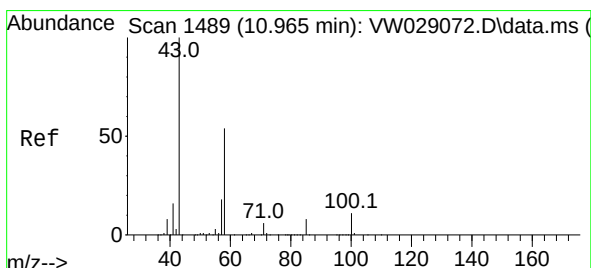
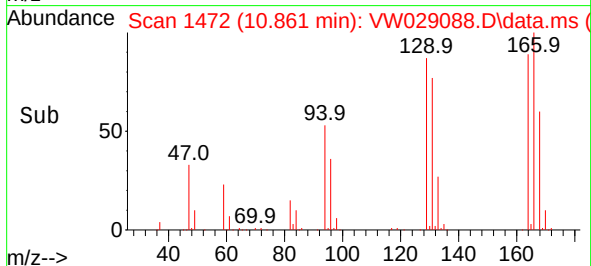
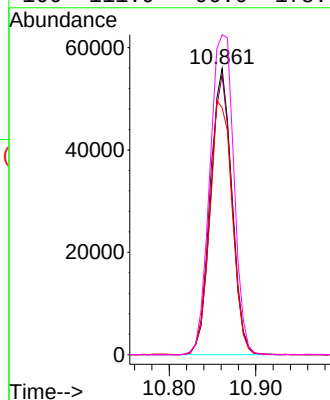
Ion Ratio Lower Upper

164 100

129 97.8 69.4 128.8

131 86.4 71.0 131.9

166 111.9 96.0 178.4



#48

2-Hexanone

Concen: 67.911 ug/L

RT: 10.965 min Scan# 1489

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Tgt Ion: 43 Resp: 121016

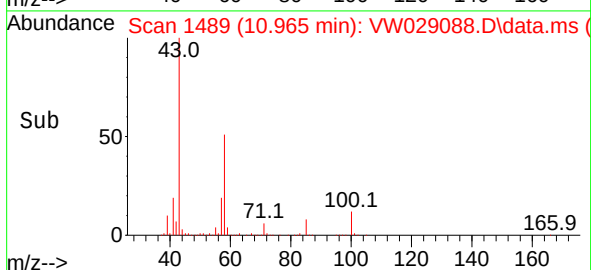
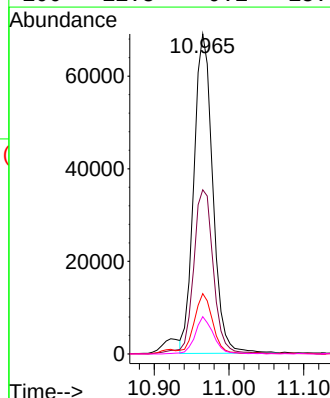
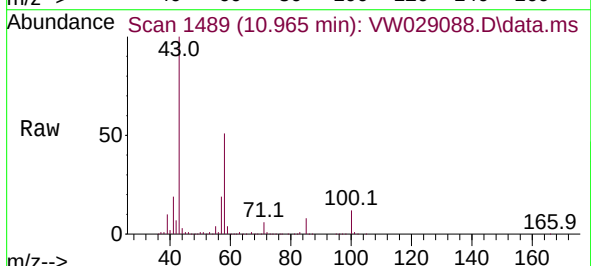
Ion Ratio Lower Upper

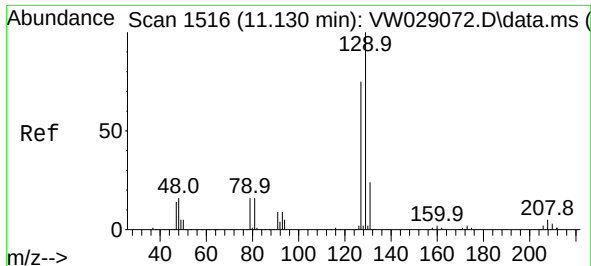
43 100

58 52.2 41.4 62.0

57 18.3 14.2 21.4

100 11.3 9.1 13.7





#49

Dibromochloromethane

Concen: 16.337 ug/L

RT: 11.129 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

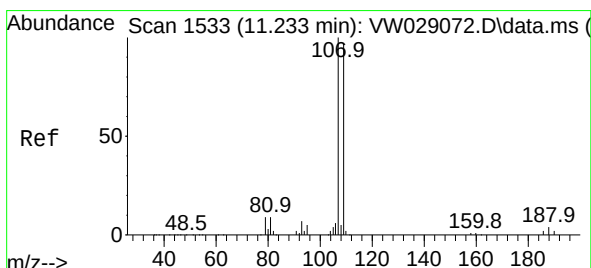
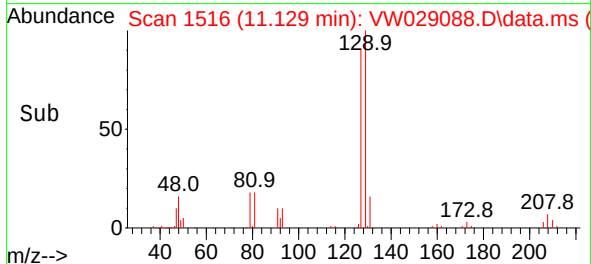
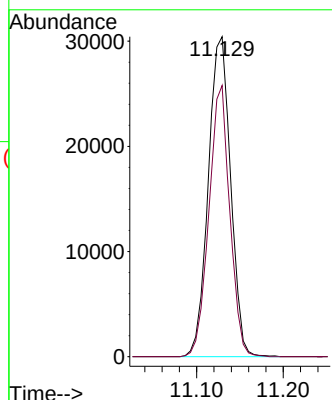
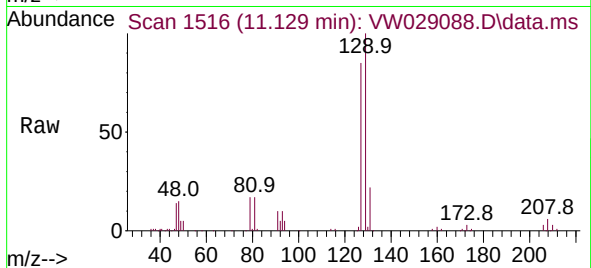
ClientSampleId :

Tgt Ion:129 Resp: 54456

Ion Ratio Lower Upper

129 100

127 84.7 56.5 104.9



#50

1,2-Dibromoethane

Concen: 9.830 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

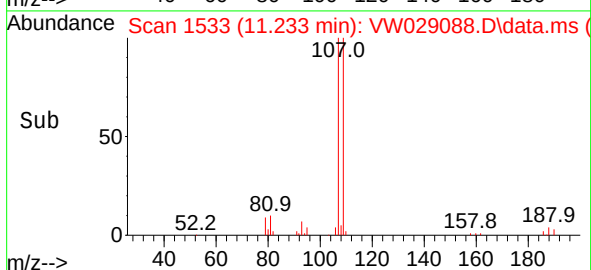
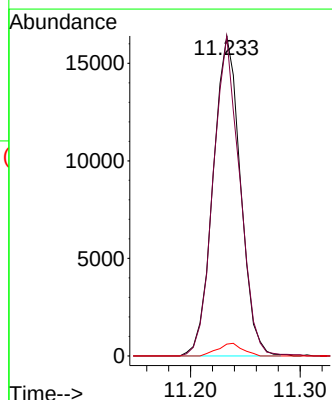
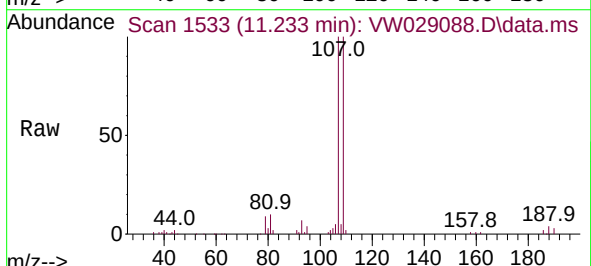
Tgt Ion:107 Resp: 28318

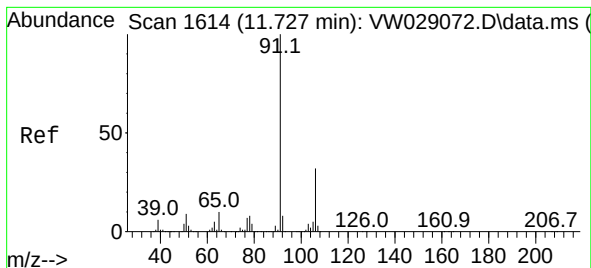
Ion Ratio Lower Upper

107 100

109 99.9 67.9 126.1

188 3.7 3.0 4.4

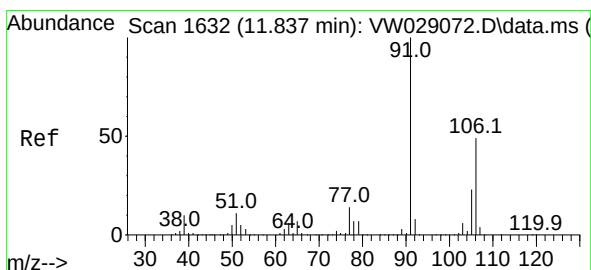
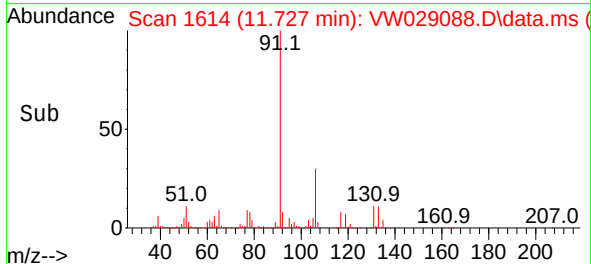
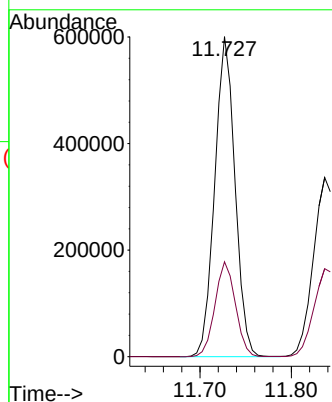
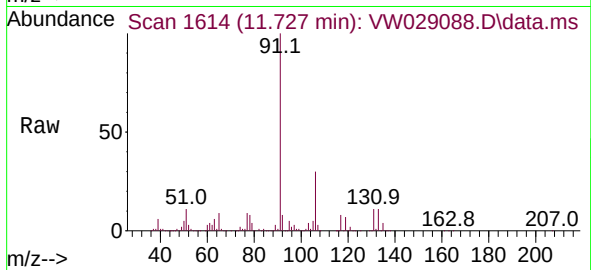




#52
Ethylbenzene
Concen: 44.588 ug/L
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

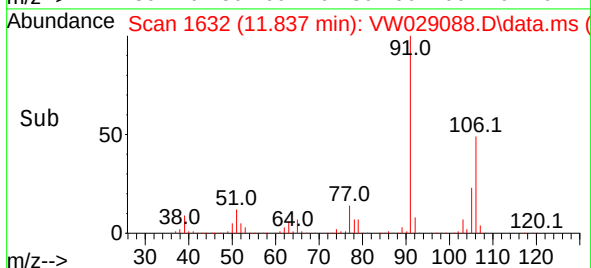
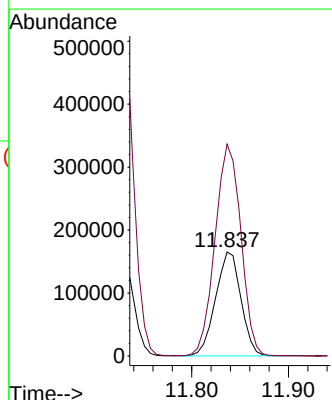
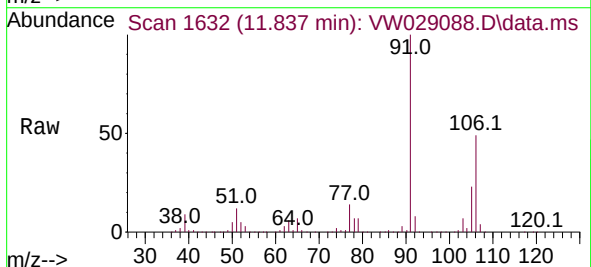
Instrument :
MSVOA_W
ClientSampleId :

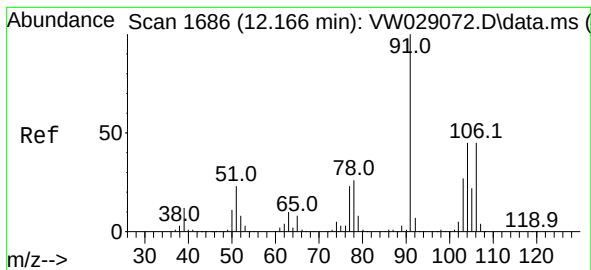
Tgt Ion: 91 Resp: 923467
Ion Ratio Lower Upper
91 100
106 29.7 19.9 37.0



#53
m,p-Xylene
Concen: 39.047 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

Tgt Ion:106 Resp: 299538
Ion Ratio Lower Upper
106 100
91 203.6 152.0 282.2





#54

o-Xylene

Concen: 4.965 ug/L

RT: 12.166 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

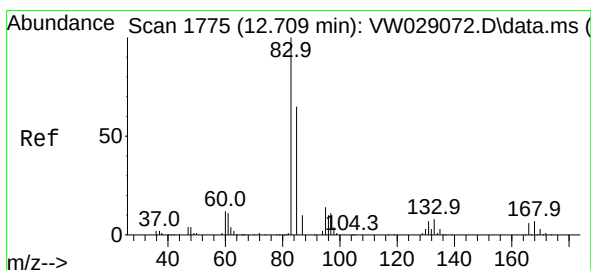
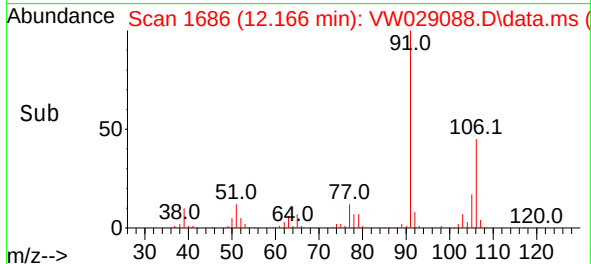
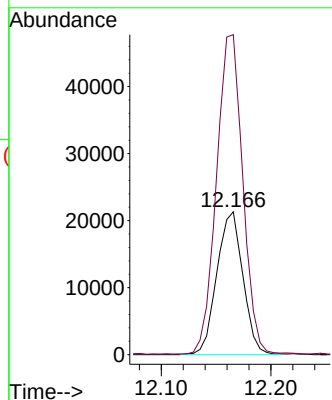
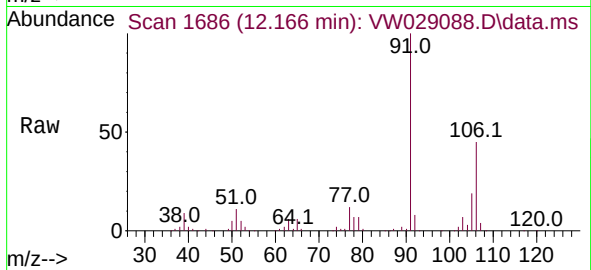
ClientSampleId :

Tgt Ion:106 Resp: 35266

Ion Ratio Lower Upper

106 100

91 224.0 152.5 283.3



#57

1,1,2,2-Tetrachloroethane

Concen: 11.091 ug/L

RT: 12.714 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

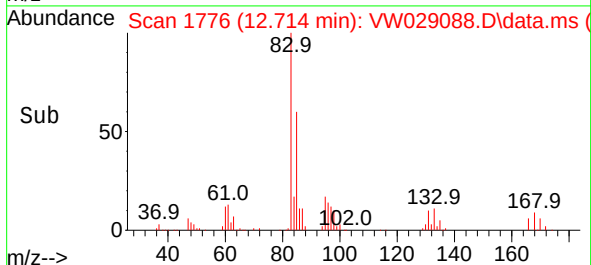
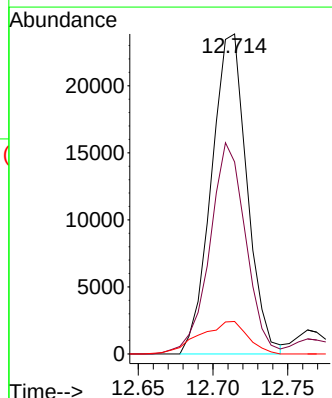
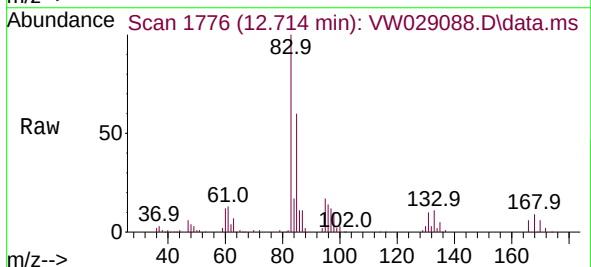
Tgt Ion: 83 Resp: 39513

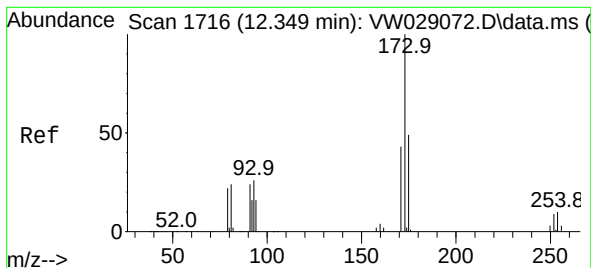
Ion Ratio Lower Upper

83 100

85 60.0 43.8 81.3

131 10.1 7.3 10.9





#59

Bromoform

Concen: 26.223 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VW029088.D

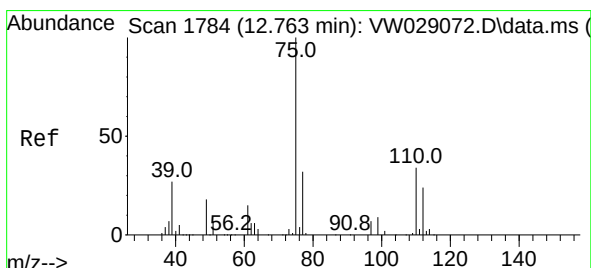
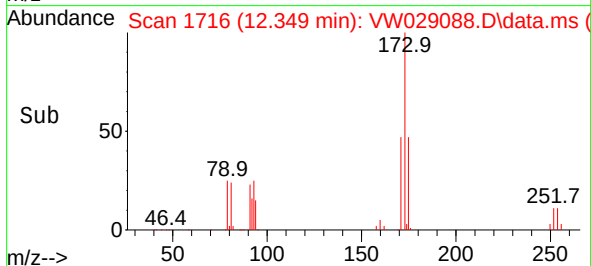
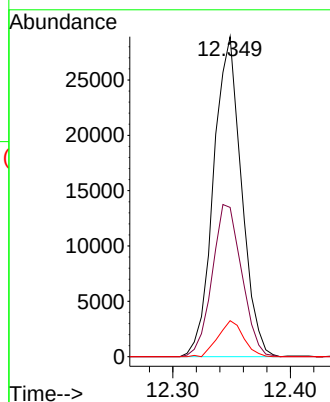
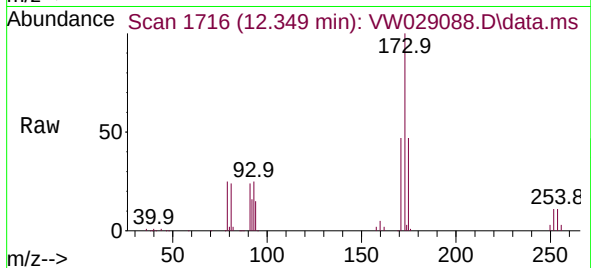
Acq: 10 Jun 2024 16:50

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	173	Resp:	47794
Ion Ratio	Lower	Upper	
173	100		
175	50.2	38.1	57.1
254	10.2	8.2	12.2



#61

1,2,3-Trichloropropane

Concen: 38.930 ug/L

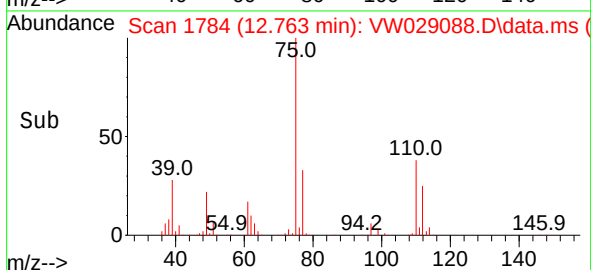
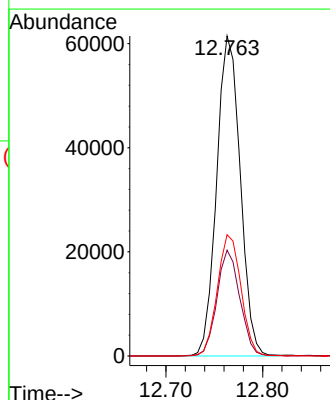
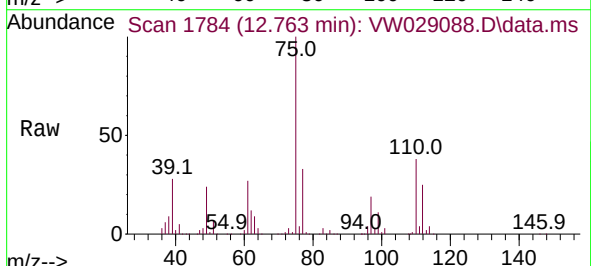
RT: 12.763 min Scan# 1784

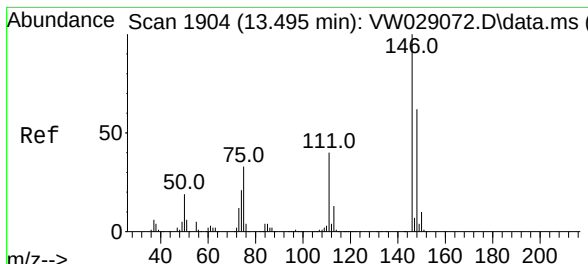
Delta R.T. -0.000 min

Lab File: VW029088.D

Acq: 10 Jun 2024 16:50

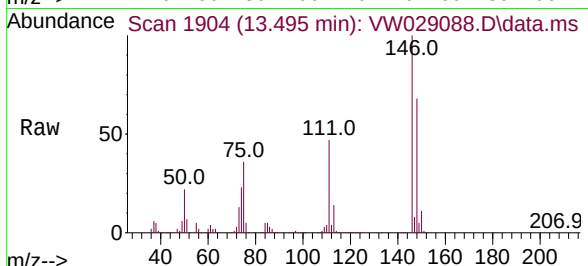
Tgt Ion:	75	Resp:	104081
Ion Ratio	Lower	Upper	
75	100		
77	32.1	26.3	39.5
110	37.9	29.4	44.0



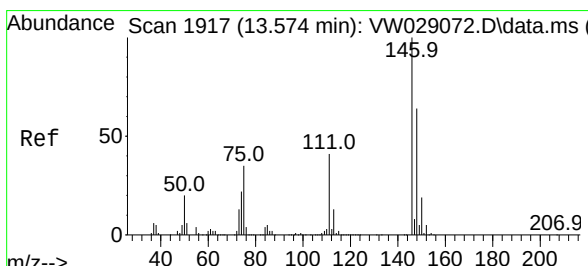
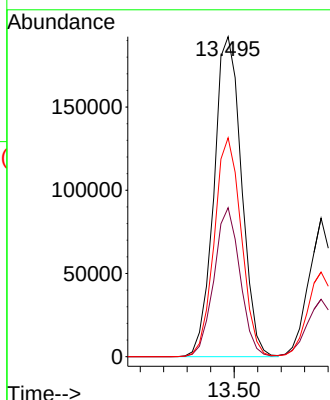
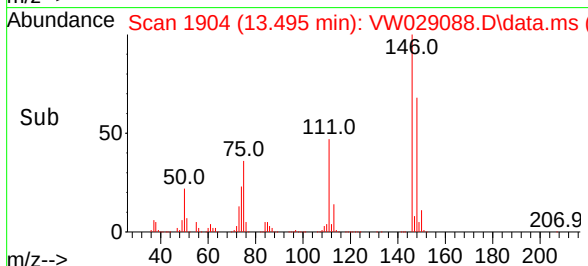


#64
1,3-Dichlorobenzene
Concen: 36.385 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

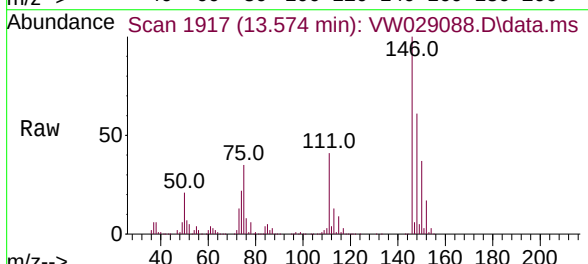
Instrument :
MSVOA_W
ClientSampleId :



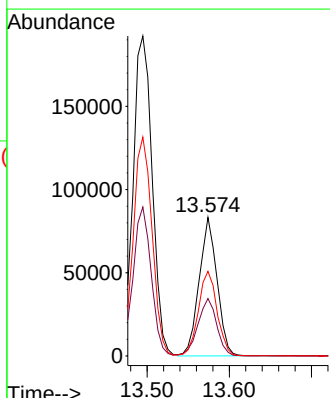
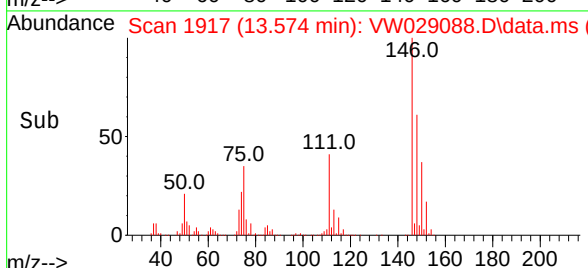
Tgt Ion:146 Resp: 313641
Ion Ratio Lower Upper
146 100
111 46.6 29.4 54.6
148 68.4 42.5 78.9

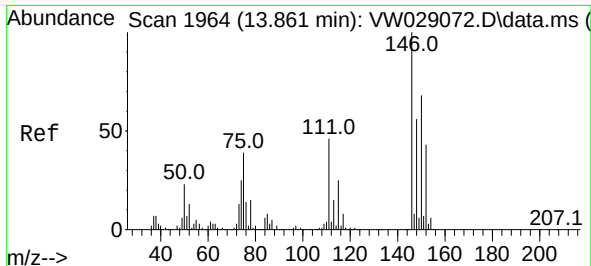


#65
1,4-Dichlorobenzene
Concen: 13.991 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50



Tgt Ion:146 Resp: 125961
Ion Ratio Lower Upper
146 100
111 41.5 27.5 51.1
148 61.1 39.5 73.3

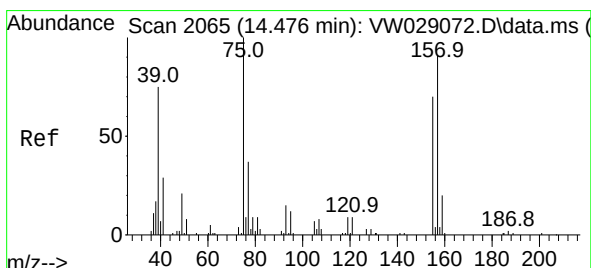
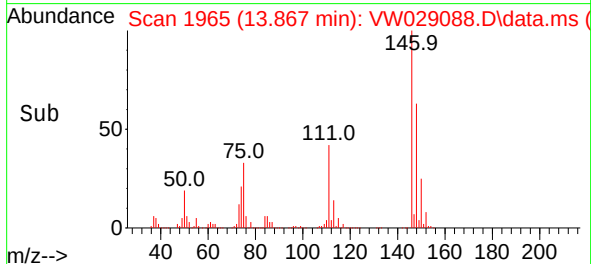
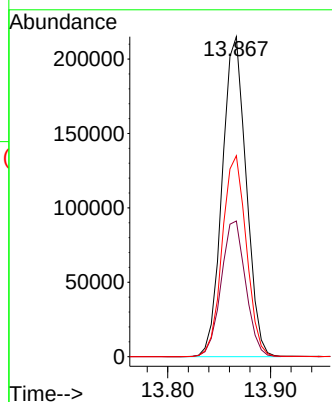
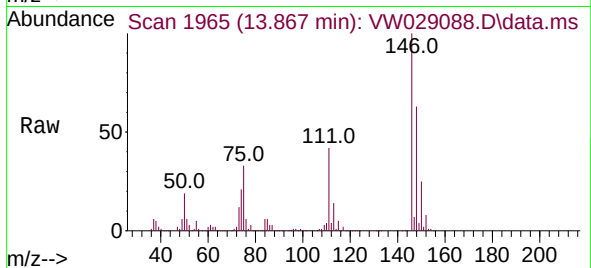




#67
1,2-Dichlorobenzene
Concen: 45.024 ug/L
RT: 13.867 min Scan# 1964
Delta R.T. 0.006 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

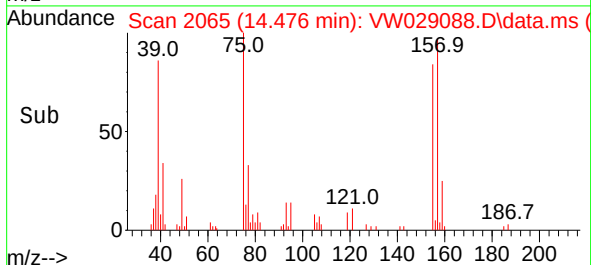
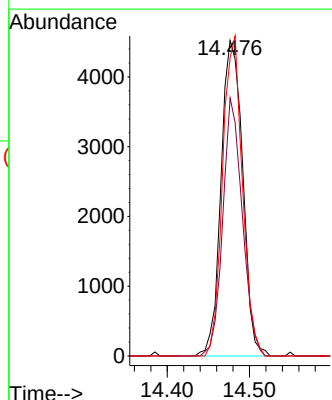
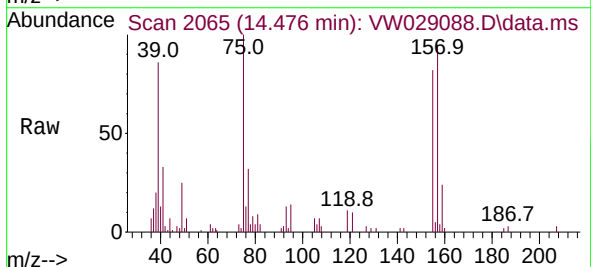
Instrument :
MSVOA_W
ClientSampleId :

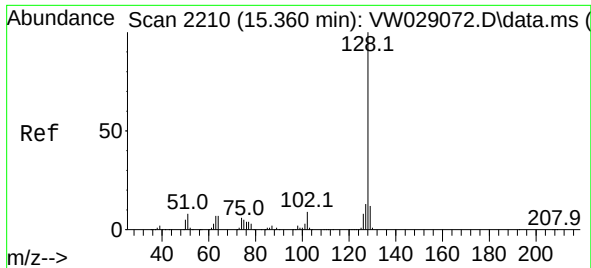
Tgt Ion:146 Resp: 347858
Ion Ratio Lower Upper
146 100
111 42.4 32.8 49.2
148 62.8 48.2 72.4



#68
1,2-Dibromo-3-chloropropane
Concen: 14.507 ug/L
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

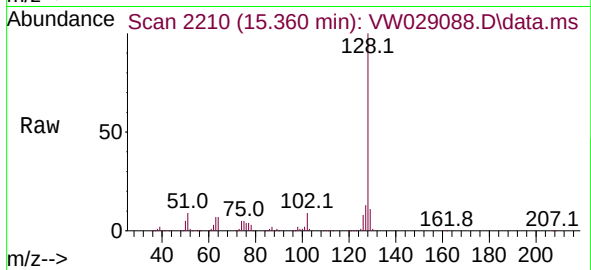
Tgt Ion: 75 Resp: 8267
Ion Ratio Lower Upper
75 100
155 81.8 52.3 78.5#
157 94.5 71.0 106.4





#71
Naphthalene
Concen: 39.727 ug/L
RT: 15.360 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW029088.D
Acq: 10 Jun 2024 16:50

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:128 Resp: 324697
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 10.8 8.6 12.8

