

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092424\
 Data File : VW030216.D
 Acq On : 24 Sep 2024 11:40
 Operator : SY/MD
 Sample : P4109-12 2X DL
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 25 01:19:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM091624SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Sep 25 01:17:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	299118	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	276602	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.550	152	135009	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	97037	25.121	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.480%
7) Chloroethane-d5	2.899	69	80507	29.521	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	118.080%
11) 1,1-Dichloroethene-d2	4.021	65	40045	20.748	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	83.000%
21) 2-Butanone-d5	7.081	46	40401	43.194	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.380%
24) Chloroform-d	7.648	84	196721	23.919	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.680%
26) 1,2-Dichloroethane-d4	8.307	65	95203	23.051	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.200%
32) Benzene-d6	8.276	84	357320	22.424	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.680%
36) 1,2-Dichloropropane-d6	9.276	67	105606	21.465	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	85.880%
41) Toluene-d8	10.325	98	330426	23.139	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.560%
43) trans-1,3-Dichloroprop...	10.575	79	42913	21.771	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.080%
47) 2-Hexanone-d5	10.922	63	33196	44.094	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.180%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	78800	21.513	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.040%
66) 1,2-Dichlorobenzene-d4	13.848	152	108922	23.766	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.080%
Target Compounds						Qvalue
12) 1,1-Dichloroethene	4.045	96	78989	22.122	ug/L	100
13) Acetone	4.137	43	27894	25.994	ug/L	98
16) Methylene chloride	4.923	84	163722	37.119	ug/L	97
17) trans-1,2-Dichloroethene	5.435	96	61038	15.507	ug/L	94
18) Methyl tert-butyl Ether	5.429	73	118613	19.121	ug/L	98
19) 1,1-Dichloroethane	6.222	63	323218	40.440	ug/L	99
22) 2-Butanone	7.173	43	101829	80.163	ug/L	99
25) Chloroform	7.679	83	347977	42.866	ug/L	98
30) 1,1,1-Trichloroethane	7.880	97	2362	0.353	ug/L	91
31) Carbon tetrachloride	8.069	117	47838	7.869	ug/L	98
33) Benzene	8.325	78	534122	31.584	ug/L	100
34) Trichloroethene	9.093	95	212110	46.463	ug/L	99
37) 1,2-Dichloropropane	9.368	63	73576	16.052	ug/L	99
39) cis-1,3-Dichloropropene	10.075	75	194506	29.007	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	132087	56.397	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	178017	31.559	ug/L	97
45) 1,1,2-Trichloroethane	10.782	97	71224	21.355	ug/L	95
50) 1,2-Dibromoethane	11.233	107	61021	19.842	ug/L	# 96
53) m,p-Xylene	11.837	106	180455	23.810	ug/L	86

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Quant Title : SFAM01.0
QLast Update : Wed Sep 25 01:17:29 2024
Response via : Initial Calibration

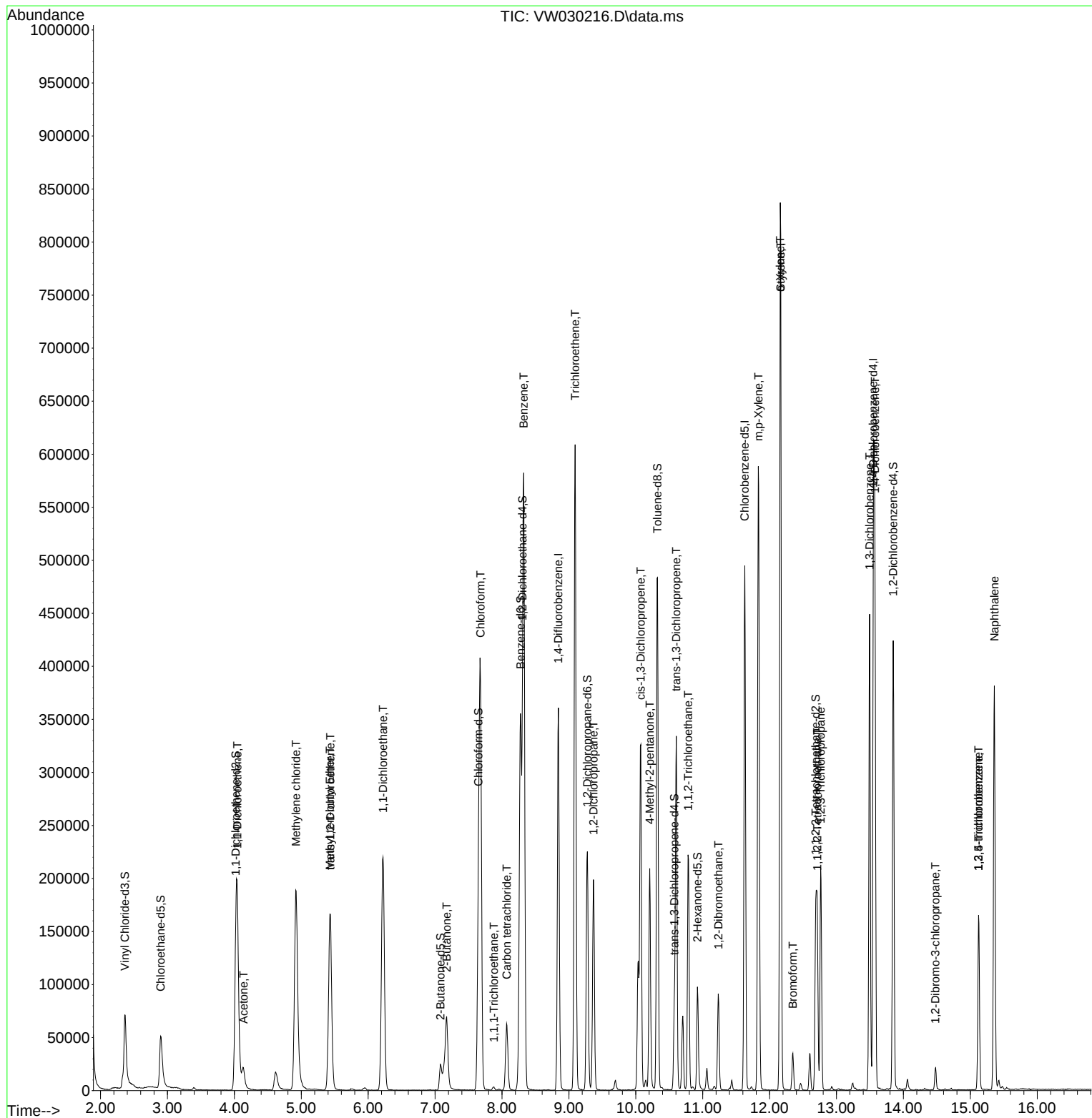
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	12.160	106	223875	31.391	ug/L	100
55) Styrene	12.166	104	11925	0.964	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.715	83	77348	19.429	ug/L	99
59) Bromoform	12.349	173	15814	7.401	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	87163	31.033	ug/L	96
64) 1,3-Dichlorobenzene	13.495	146	175014	19.866	ug/L	90
65) 1,4-Dichlorobenzene	13.574	146	175849	19.321	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.476	75	5384	8.790	ug/L #	85
69) 1,3,5-Trichlorobenzene	15.123	180	52815	8.589	ug/L	94
70) 1,2,4-trichlorobenzene	15.123	180	52815	10.603	ug/L	95
71) Naphthalene	15.360	128	316574	34.998	ug/L	99

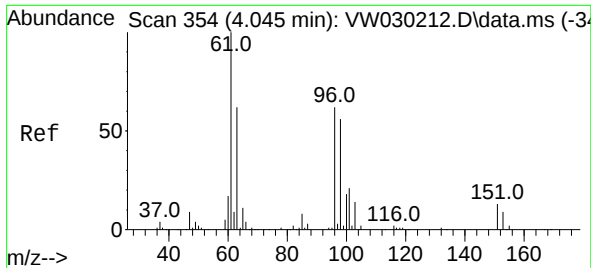
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 22.122 ug/L

RT: 4.045 min Scan# 354

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

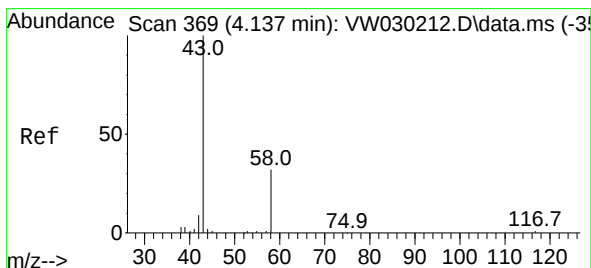
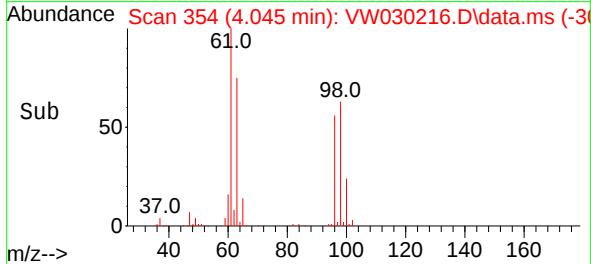
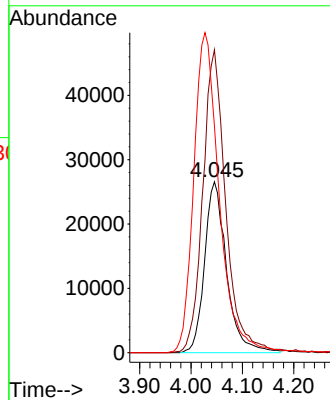
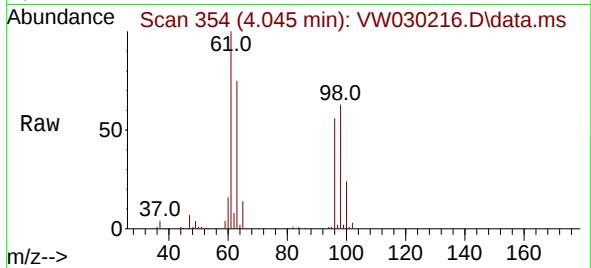
Tgt Ion: 96 Resp: 78989

Ion Ratio Lower Upper

96 100

61 177.2 124.0 230.4

63 132.6 93.3 173.3



#13

Acetone

Concen: 25.994 ug/L

RT: 4.137 min Scan# 369

Delta R.T. 0.000 min

Lab File: VW030216.D

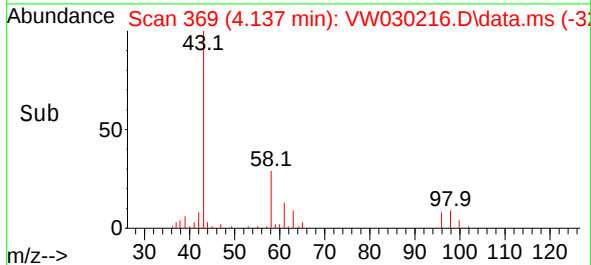
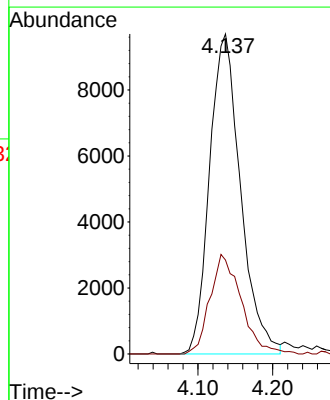
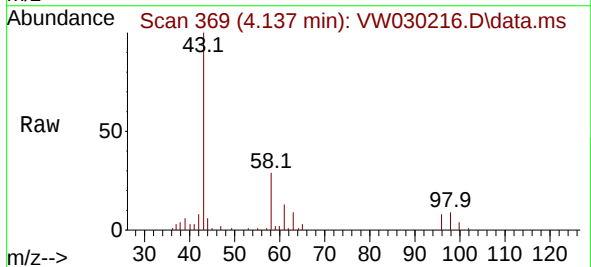
Acq: 24 Sep 2024 11:40

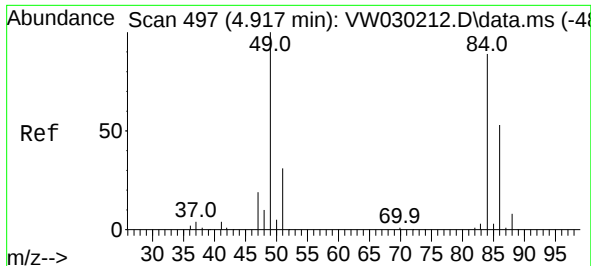
Tgt Ion: 43 Resp: 27894

Ion Ratio Lower Upper

43 100

58 31.4 0.0 65.0

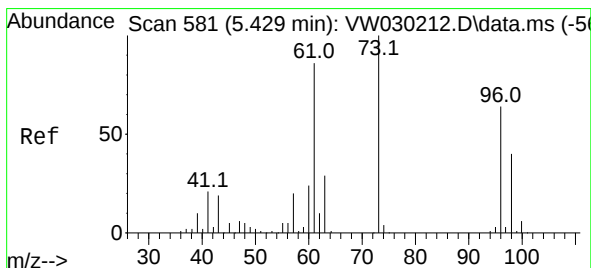
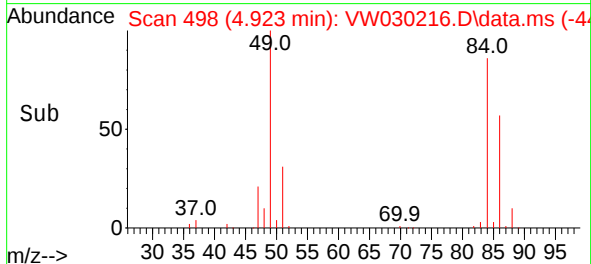
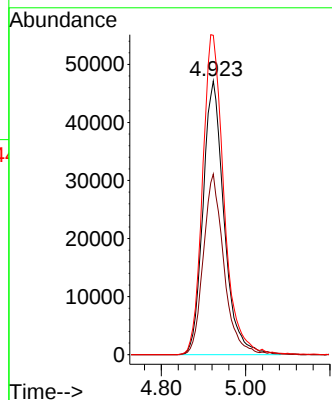
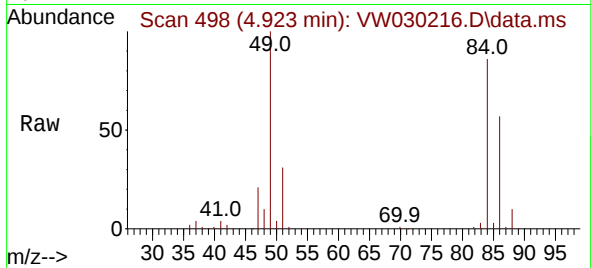




#16
Methylene chloride
Concen: 37.119 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.006 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

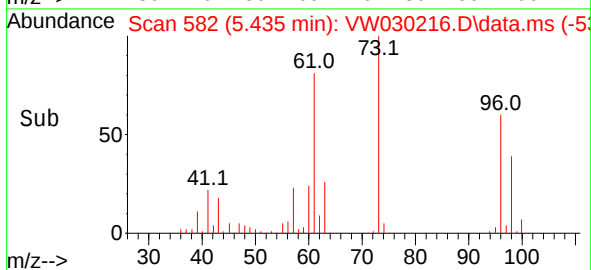
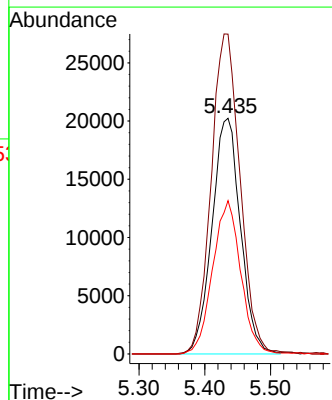
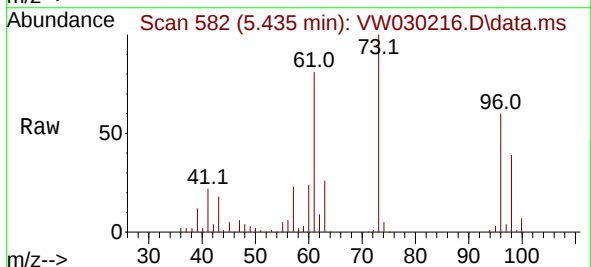
Instrument :
MSVOA_W
ClientSampleId :

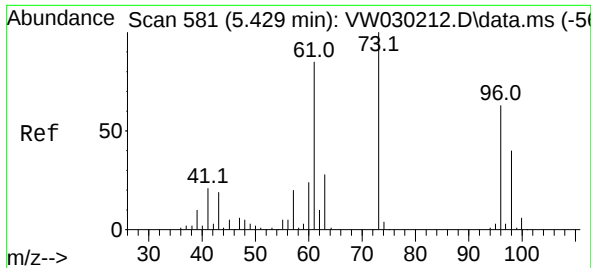
Tgt Ion: 84 Resp: 163722
Ion Ratio Lower Upper
84 100
86 66.0 44.6 82.8
49 116.6 83.8 155.6



#17
trans-1,2-Dichloroethene
Concen: 15.507 ug/L
RT: 5.435 min Scan# 582
Delta R.T. 0.006 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion: 96 Resp: 61038
Ion Ratio Lower Upper
96 100
61 135.7 100.8 187.2
98 65.1 43.0 80.0





#18

Methyl tert-butyl Ether

Concen: 19.121 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

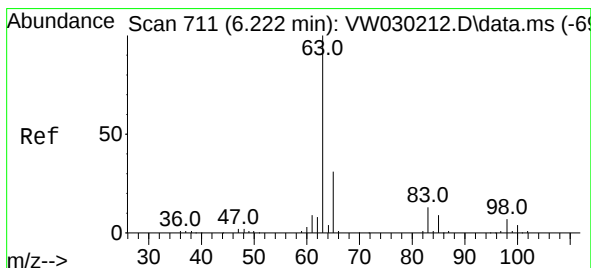
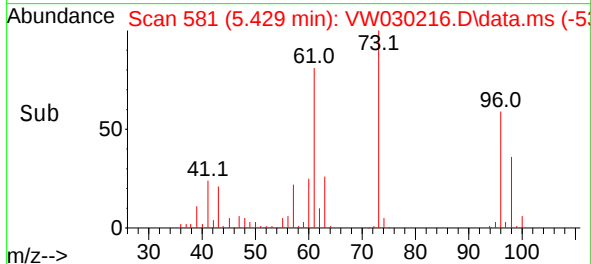
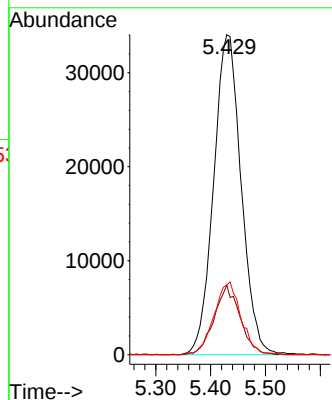
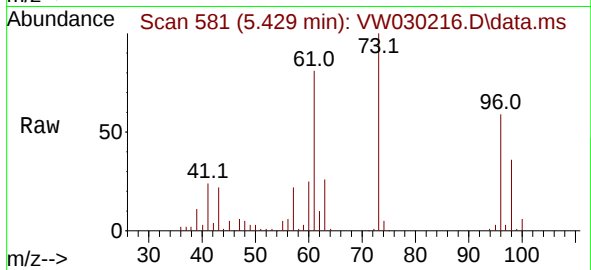
Tgt Ion: 73 Resp: 118613

Ion Ratio Lower Upper

73 100

43 20.4 15.7 23.5

57 22.0 18.8 28.2



#19

1,1-Dichloroethane

Concen: 40.440 ug/L

RT: 6.222 min Scan# 711

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

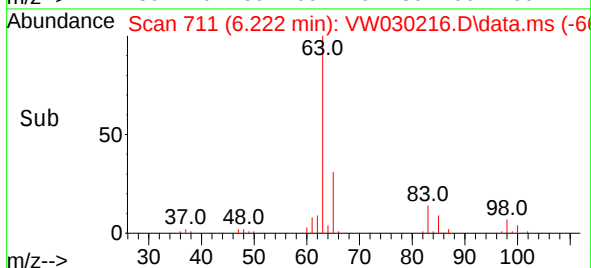
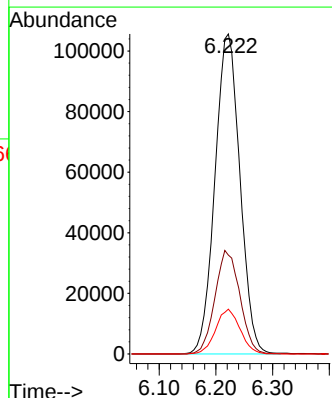
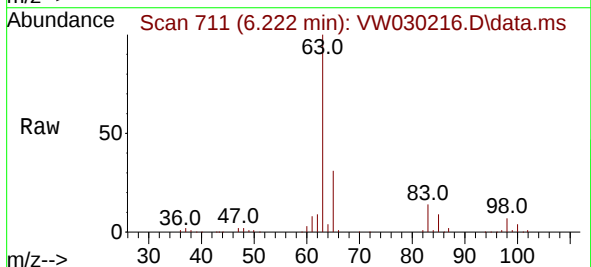
Tgt Ion: 63 Resp: 323218

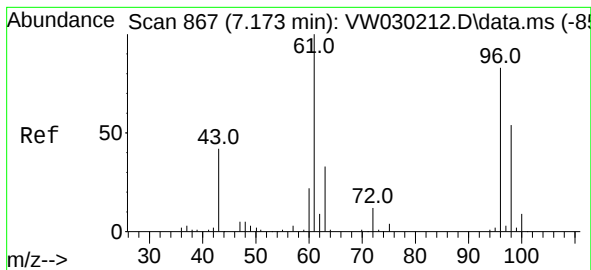
Ion Ratio Lower Upper

63 100

65 30.9 21.6 40.0

83 14.0 9.0 16.8





#22

2-Butanone

Concen: 80.163 ug/L

RT: 7.173 min Scan# 80

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

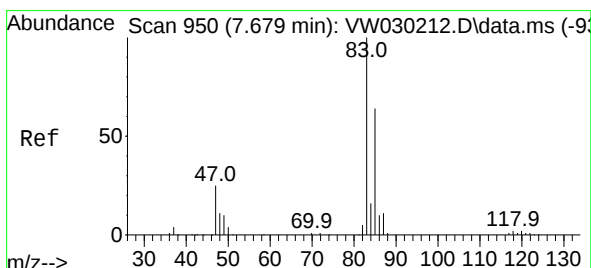
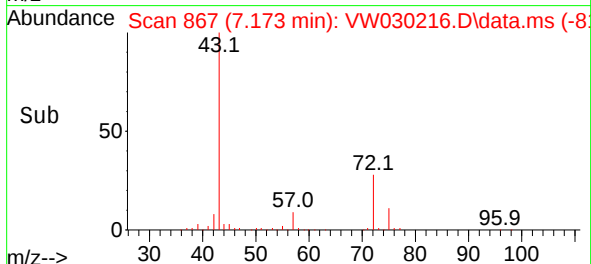
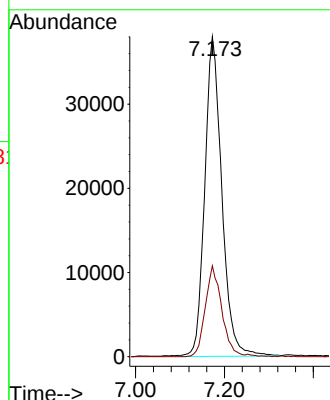
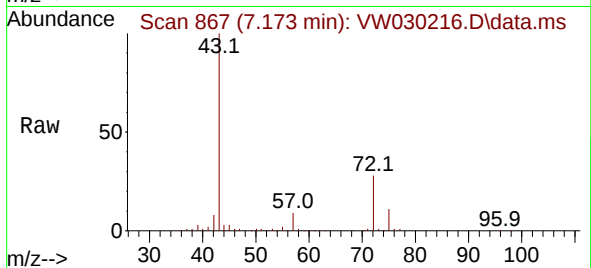
ClientSampleId :

Tgt Ion: 43 Resp: 101829

Ion Ratio Lower Upper

43 100

72 27.3 13.9 41.7



#25

Chloroform

Concen: 42.866 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.000 min

Lab File: VW030216.D

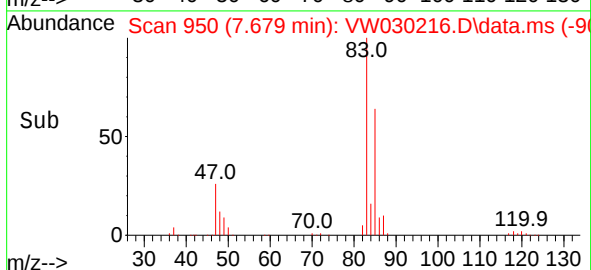
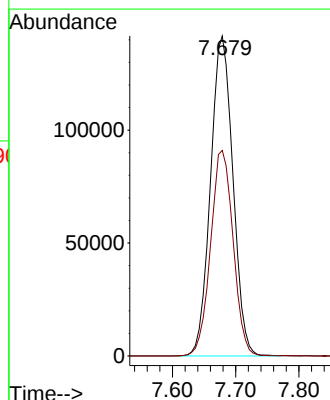
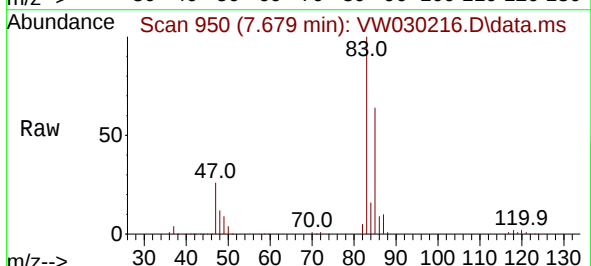
Acq: 24 Sep 2024 11:40

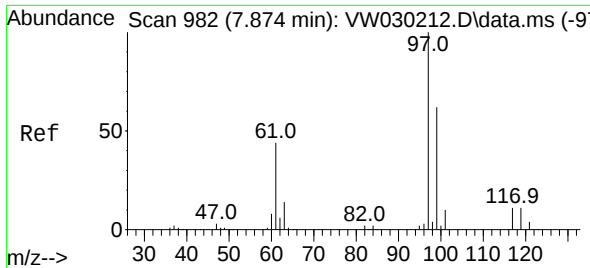
Tgt Ion: 83 Resp: 347977

Ion Ratio Lower Upper

83 100

85 64.3 46.1 85.5





#30

1,1,1-Trichloroethane

Concen: 0.353 ug/L

RT: 7.880 min Scan# 9

Delta R.T. 0.006 min

Lab File: VW030216.D

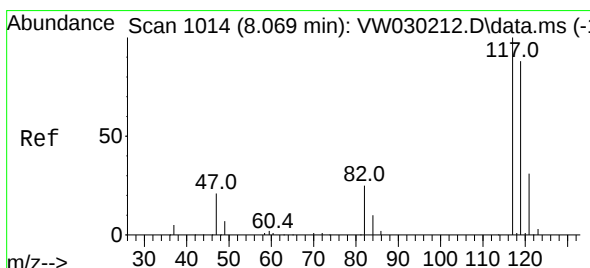
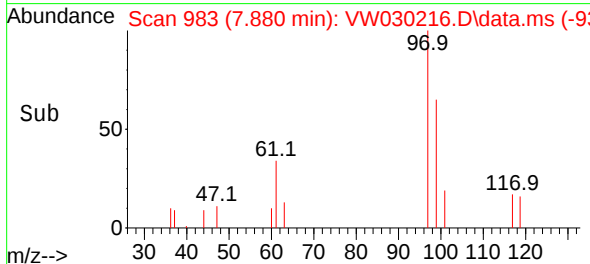
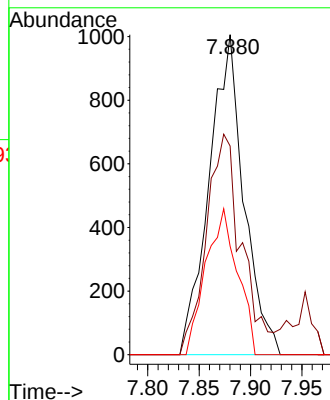
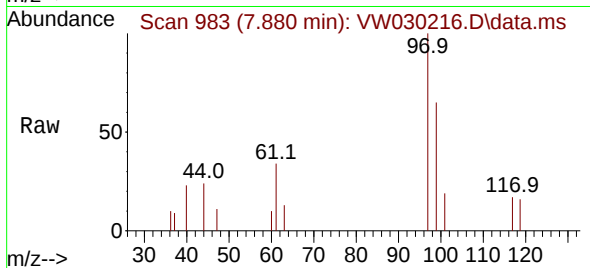
Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97	Resp: 2362
Ion Ratio	Lower Upper
97	100
99	54.7 51.3 76.9
61	41.7 36.4 54.6



#31

Carbon tetrachloride

Concen: 7.869 ug/L

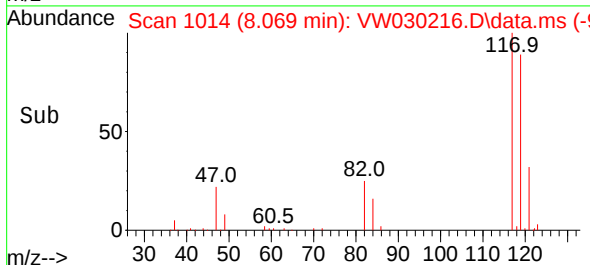
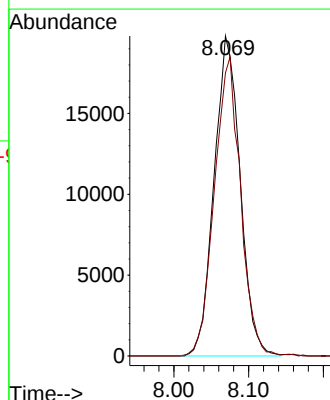
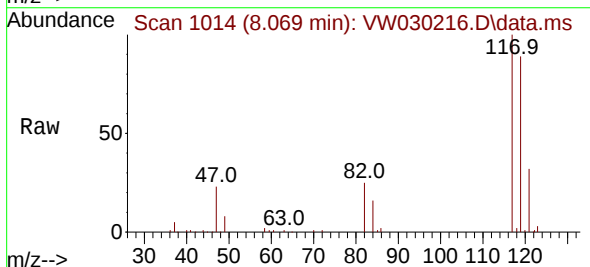
RT: 8.069 min Scan# 1014

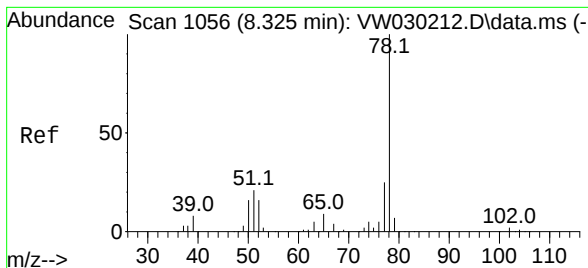
Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Tgt Ion: 117	Resp: 47838
Ion Ratio	Lower Upper
117	100
119	93.7 76.2 114.4





#33

Benzene

Concen: 31.584 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VW030216.D

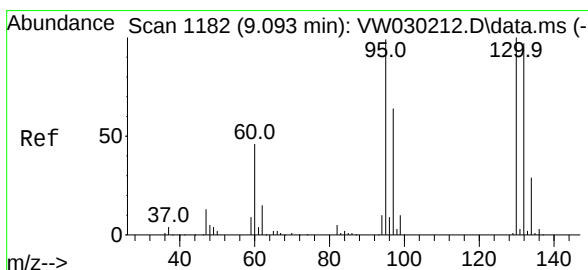
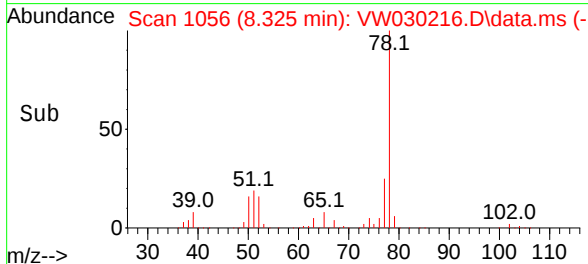
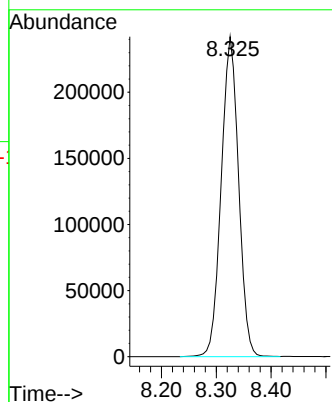
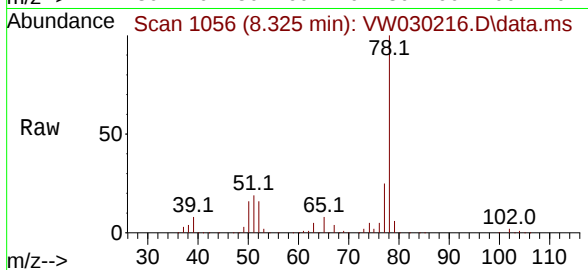
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Tgt Ion: 78 Resp: 534122



#34

Trichloroethene

Concen: 46.463 ug/L

RT: 9.093 min Scan# 1182

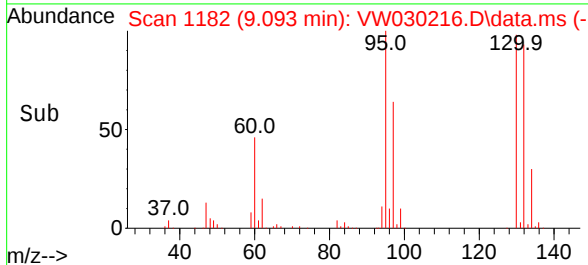
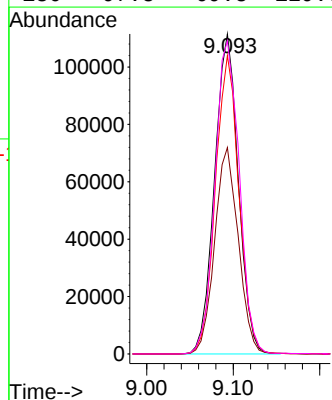
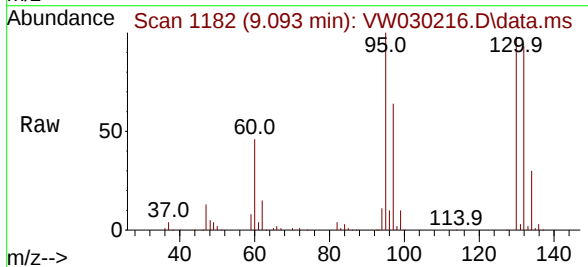
Delta R.T. 0.000 min

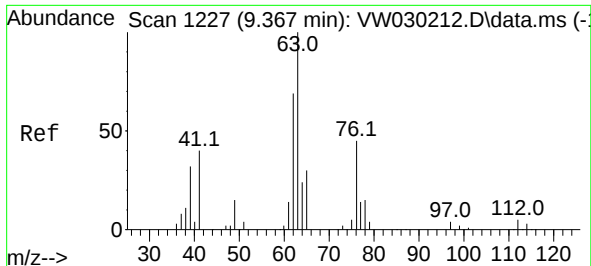
Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Tgt Ion: 95 Resp: 212110

Ion	Ratio	Lower	Upper
95	100		
97	64.5	45.2	84.0
132	93.2	64.8	120.3
130	97.8	69.8	129.6





#37

1,2-Dichloropropane

Concen: 16.052 ug/L

RT: 9.368 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

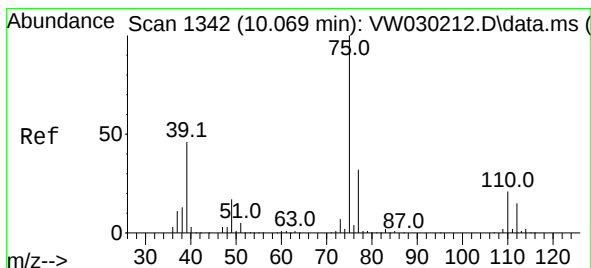
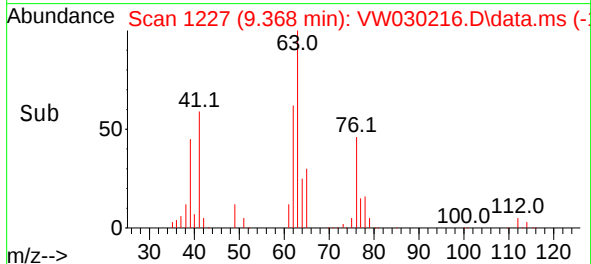
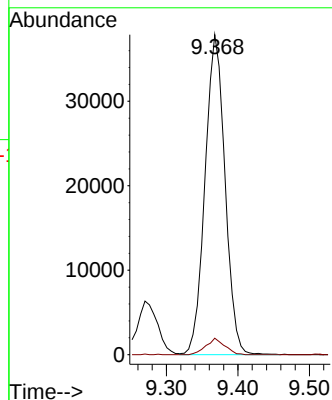
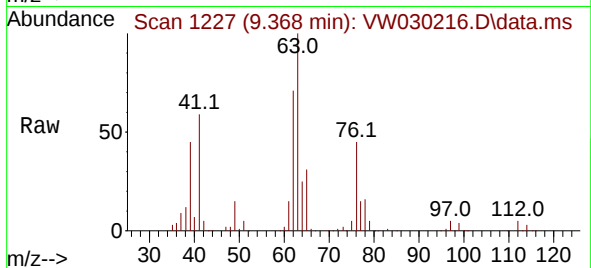
ClientSampleId :

Tgt Ion: 63 Resp: 73576

Ion Ratio Lower Upper

63 100

112 4.8 3.5 5.3



#39

cis-1,3-Dichloropropene

Concen: 29.007 ug/L

RT: 10.075 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VW030216.D

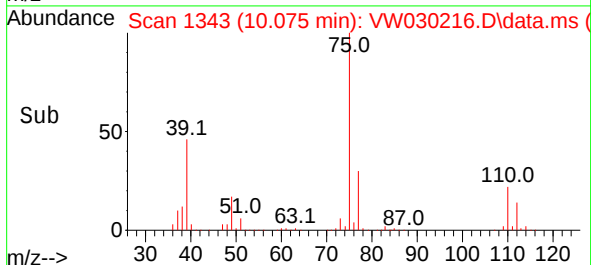
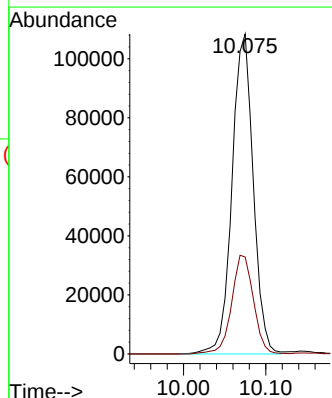
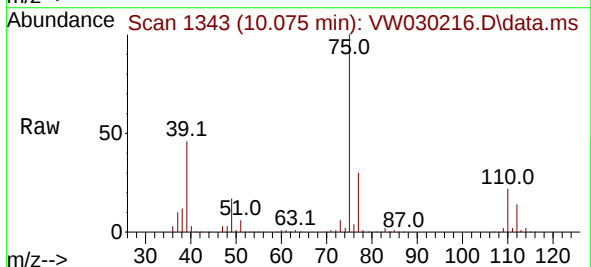
Acq: 24 Sep 2024 11:40

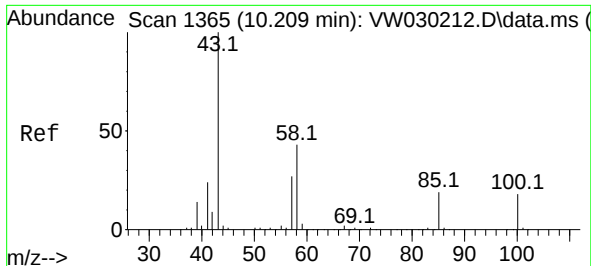
Tgt Ion: 75 Resp: 194506

Ion Ratio Lower Upper

75 100

77 30.3 20.7 38.5





#40

4-Methyl-2-pentanone

Concen: 56.397 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

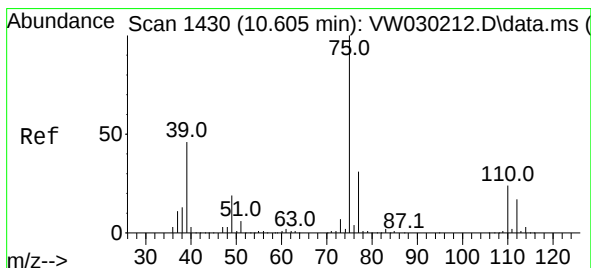
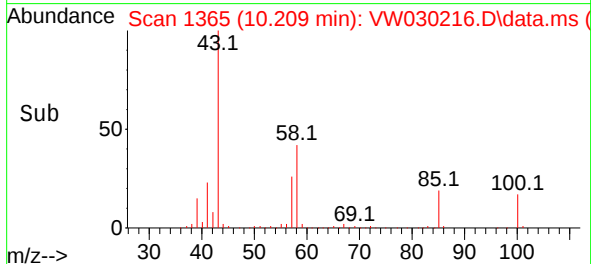
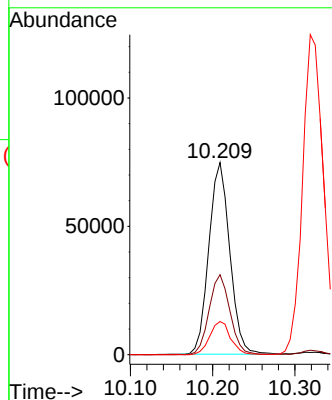
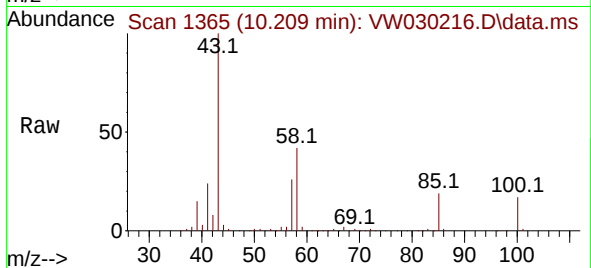
Tgt Ion: 43 Resp: 132087

Ion Ratio Lower Upper

43 100

58 41.4 32.7 49.1

100 17.3 12.7 19.1



#44

trans-1,3-Dichloropropene

Concen: 31.559 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW030216.D

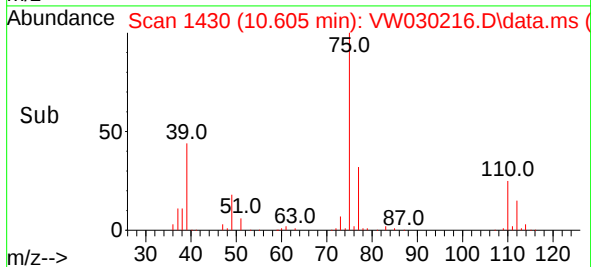
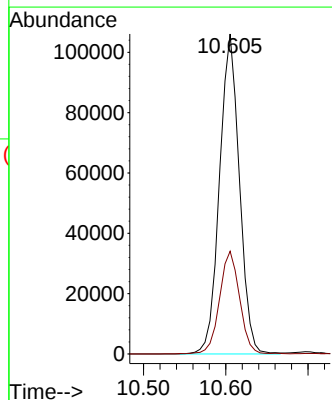
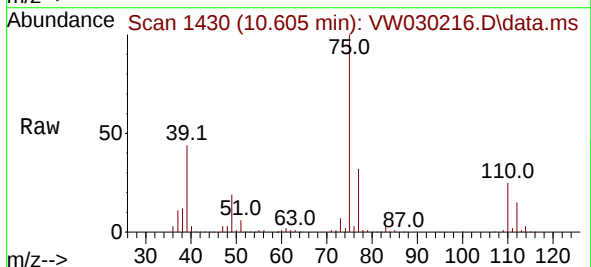
Acq: 24 Sep 2024 11:40

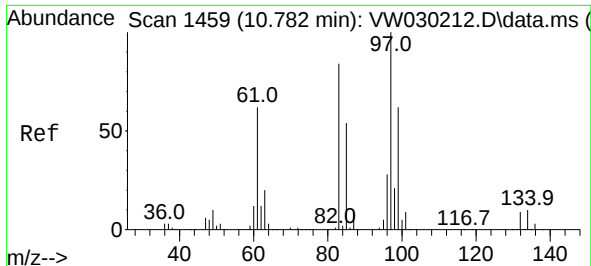
Tgt Ion: 75 Resp: 178017

Ion Ratio Lower Upper

75 100

77 32.1 21.2 39.4





#45

1,1,2-Trichloroethane

Concen: 21.355 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. 0.000 min

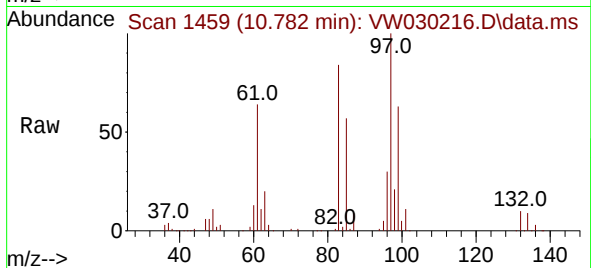
Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 97 Resp: 71224

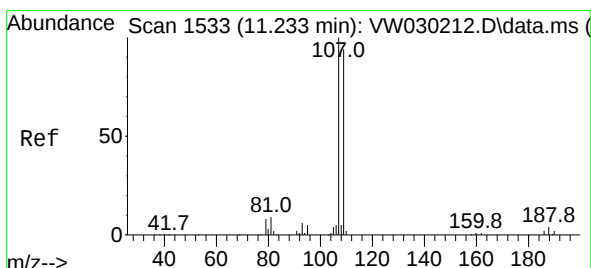
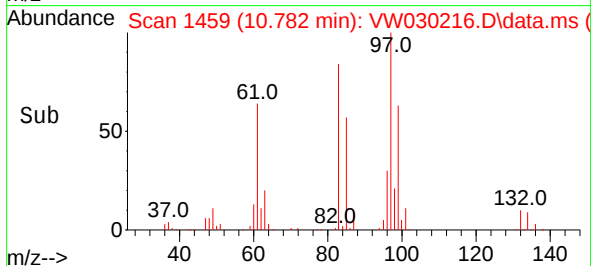
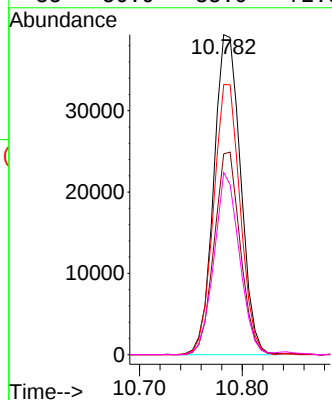
Ion Ratio Lower Upper

97 100

99 62.8 45.6 84.8

83 84.4 64.0 119.0

85 56.9 38.9 72.3



#50

1,2-Dibromoethane

Concen: 19.842 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

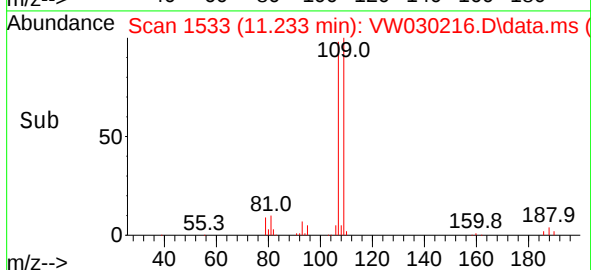
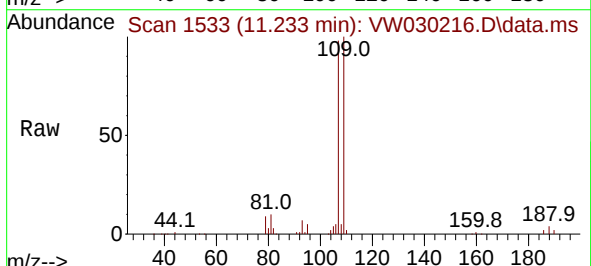
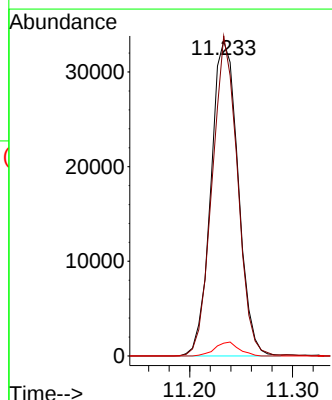
Tgt Ion:107 Resp: 61021

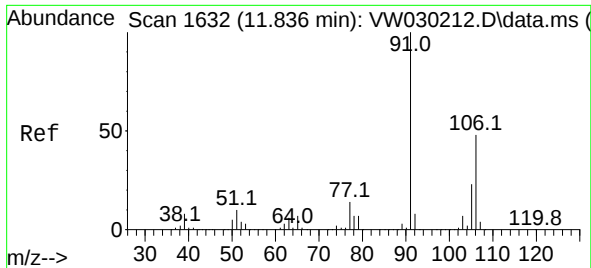
Ion Ratio Lower Upper

107 100

109 101.7 68.7 127.7

188 4.1 2.6 4.0#

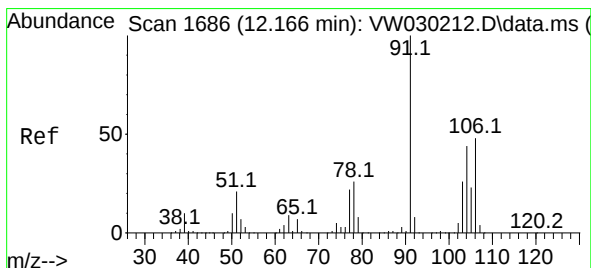
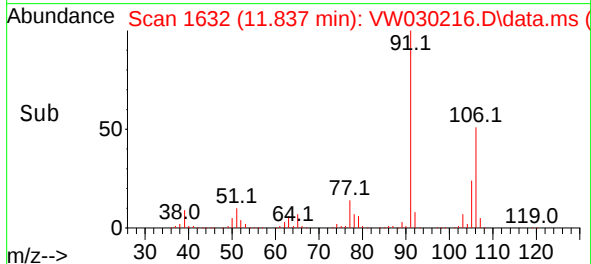
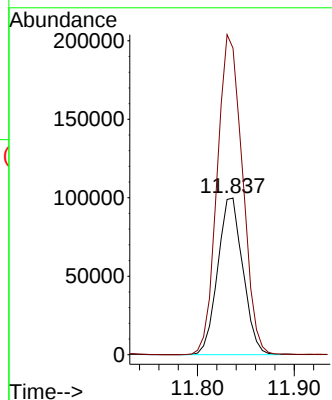
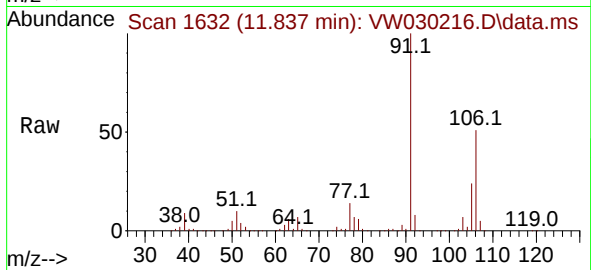




#53
m,p-Xylene
Concen: 23.810 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

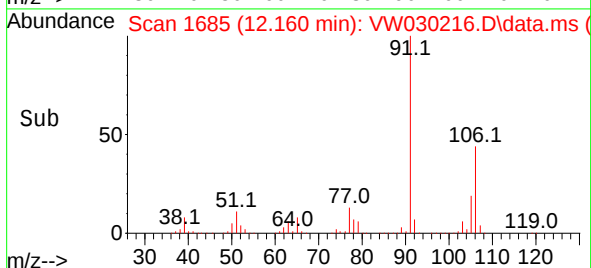
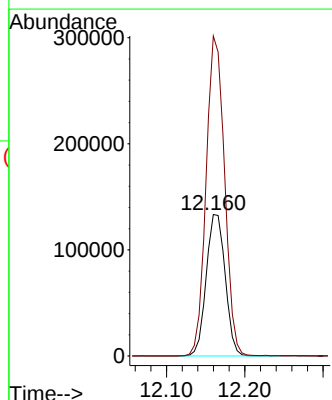
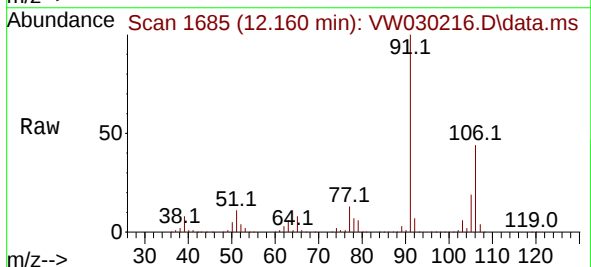
Instrument :
MSVOA_W
ClientSampleId :

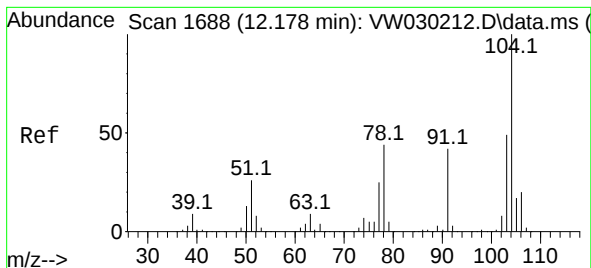
Tgt Ion:106 Resp: 180455
Ion Ratio Lower Upper
106 100
91 195.8 152.9 283.9



#54
o-Xylene
Concen: 31.391 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion:106 Resp: 223875
Ion Ratio Lower Upper
106 100
91 226.3 158.1 293.7





#55

Styrene

Concen: 0.964 ug/L

RT: 12.166 min Scan# 1

Delta R.T. -0.012 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

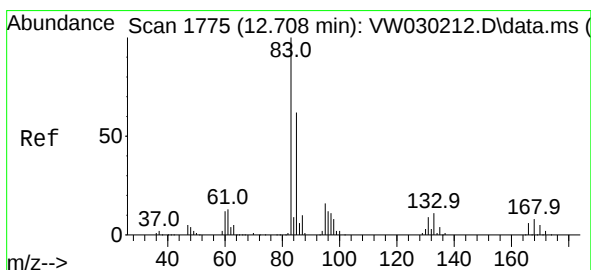
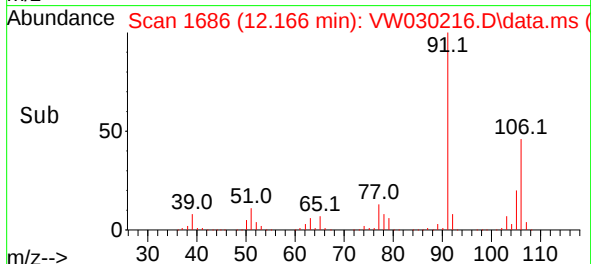
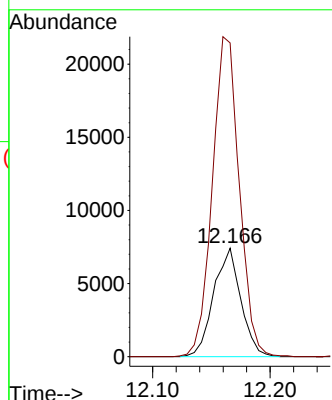
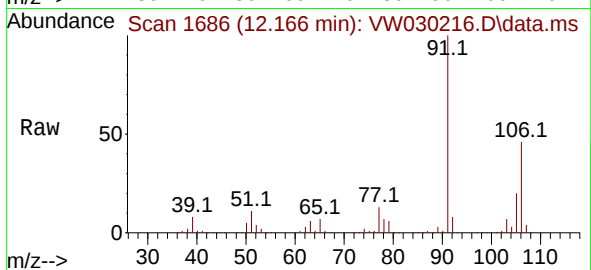
ClientSampleId :

Tgt Ion:104 Resp: 11925

Ion Ratio Lower Upper

104 100

78 289.3 31.4 58.2#



#57

1,1,2,2-Tetrachloroethane

Concen: 19.429 ug/L

RT: 12.715 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

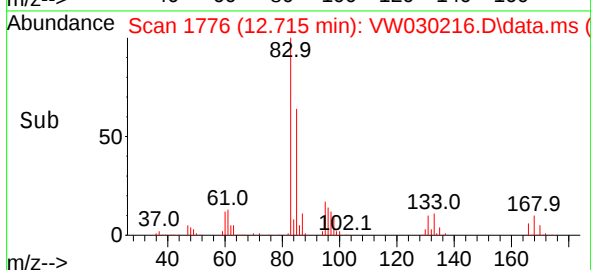
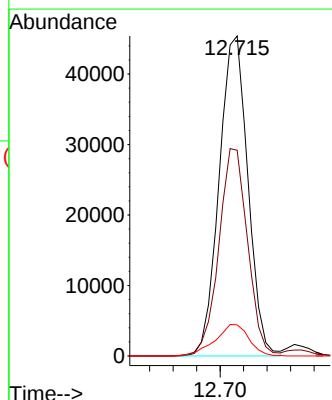
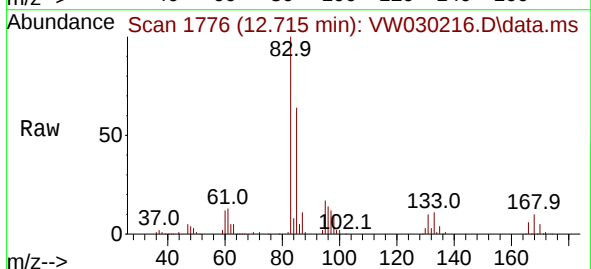
Tgt Ion: 83 Resp: 77348

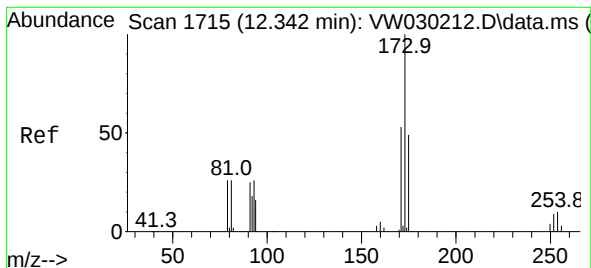
Ion Ratio Lower Upper

83 100

85 64.3 44.5 82.7

131 9.7 7.4 11.2





#59

Bromoform

Concen: 7.401 ug/L

RT: 12.349 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW030216.D

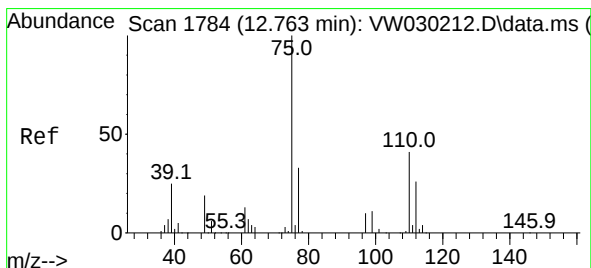
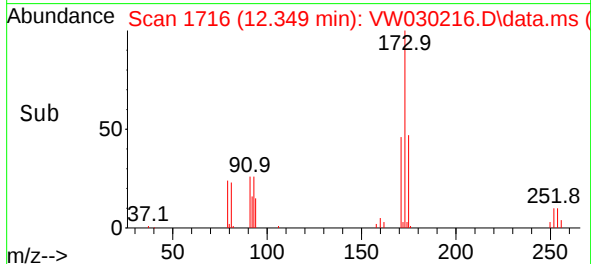
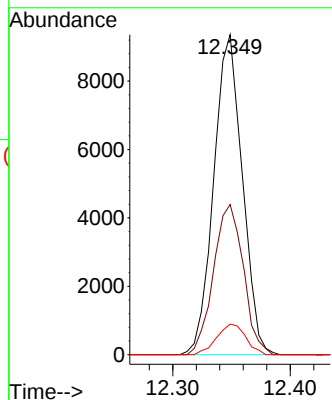
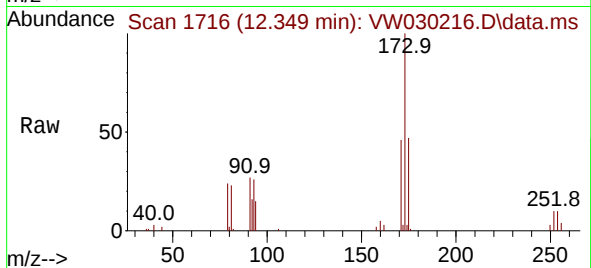
Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:173	Resp:	15814
Ion Ratio	Lower	Upper
173	100	
175	49.0	38.6 57.8
254	9.7	7.7 11.5



#61

1,2,3-Trichloropropane

Concen: 31.033 ug/L

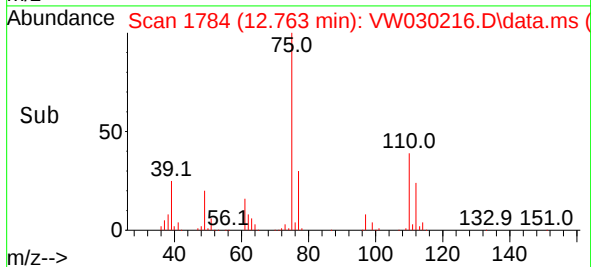
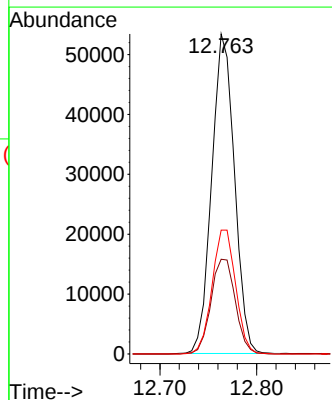
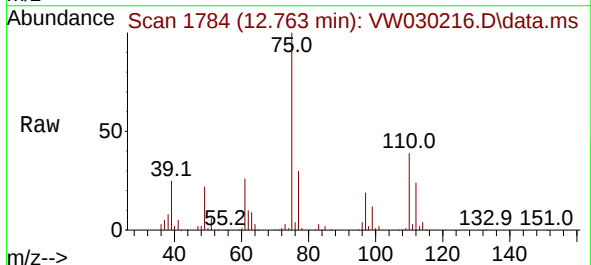
RT: 12.763 min Scan# 1784

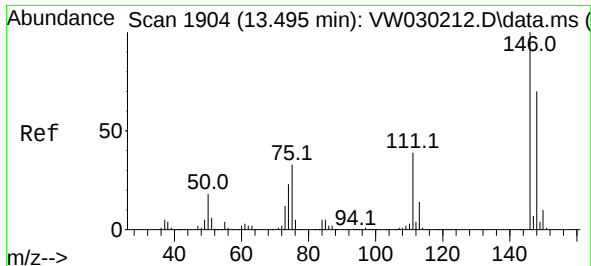
Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Tgt Ion: 75	Resp:	87163
Ion Ratio	Lower	Upper
75	100	
77	31.8	26.2 39.2
110	40.2	29.7 44.5





#64

1,3-Dichlorobenzene

Concen: 19.866 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

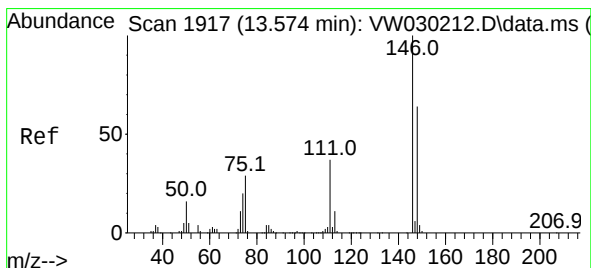
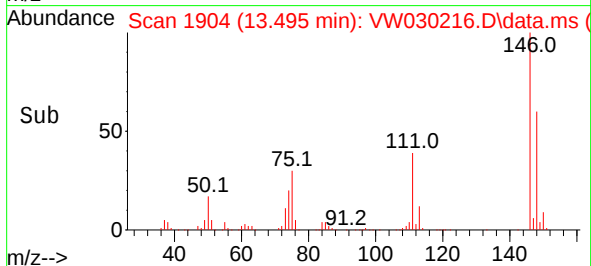
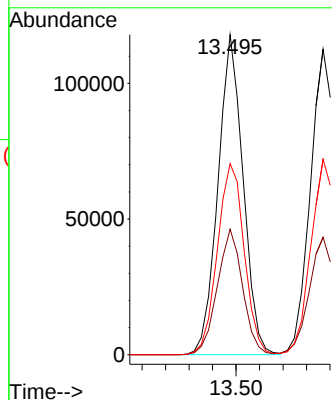
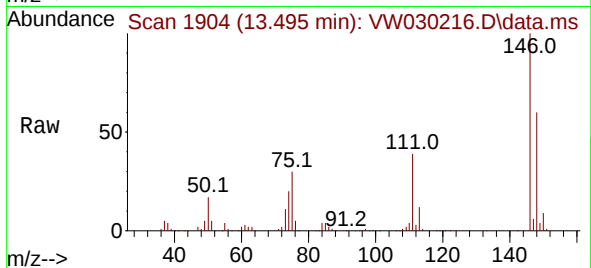
Tgt Ion:146 Resp: 175014

Ion Ratio Lower Upper

146 100

111 39.2 31.9 59.3

148 59.7 47.7 88.5



#65

1,4-Dichlorobenzene

Concen: 19.321 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

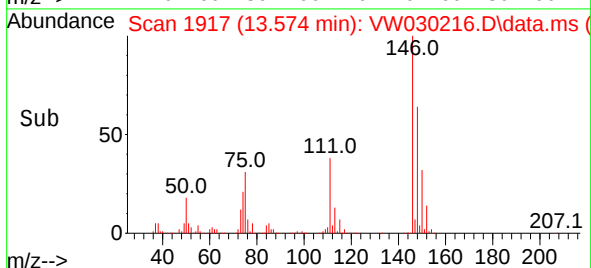
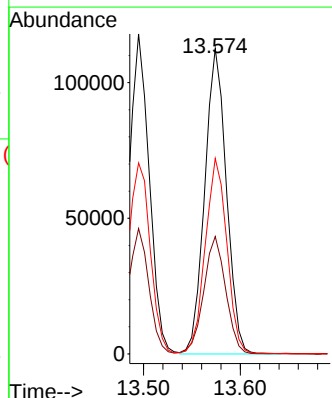
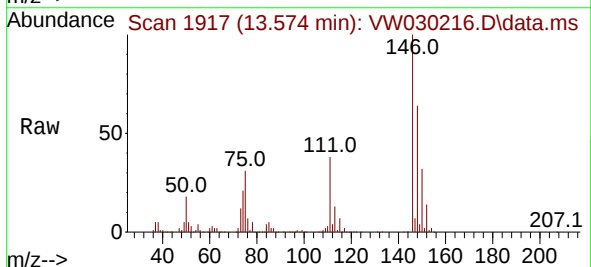
Tgt Ion:146 Resp: 175849

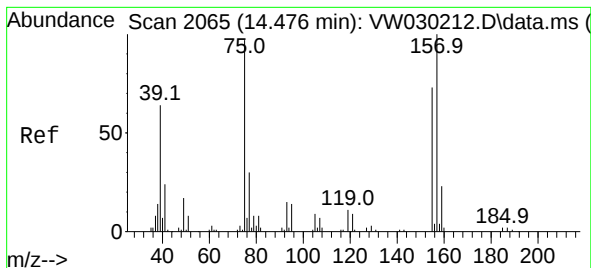
Ion Ratio Lower Upper

146 100

111 38.4 29.5 54.7

148 64.0 44.4 82.5

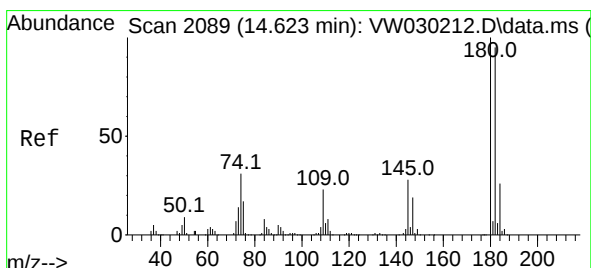
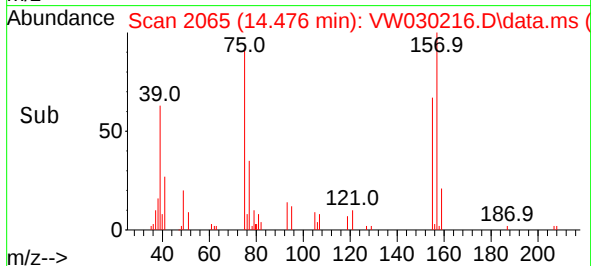
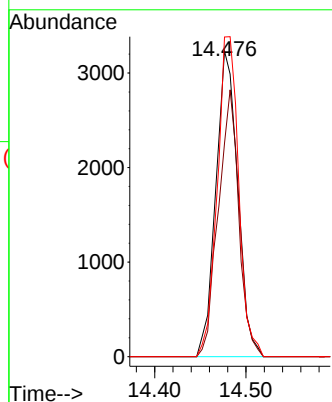
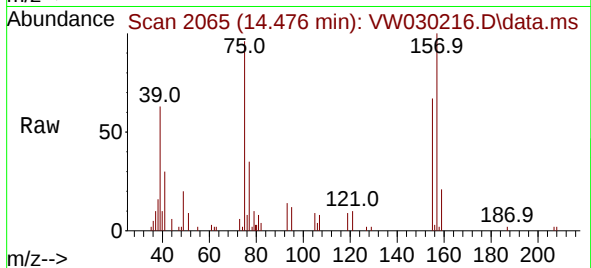




#68
1,2-Dibromo-3-chloropropane
Concen: 8.790 ug/L
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

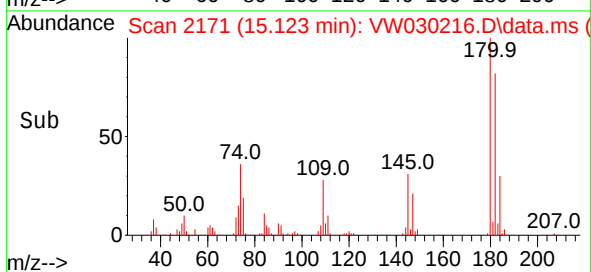
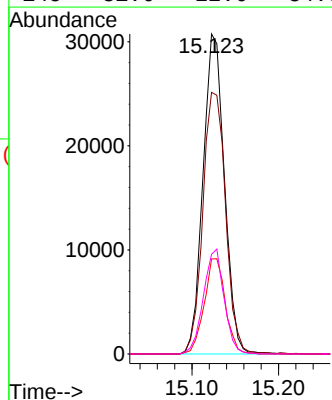
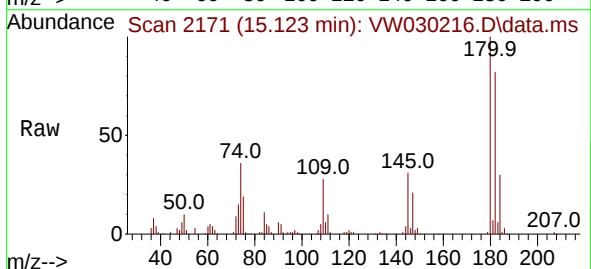
Instrument :
MSVOA_W
ClientSampleId :

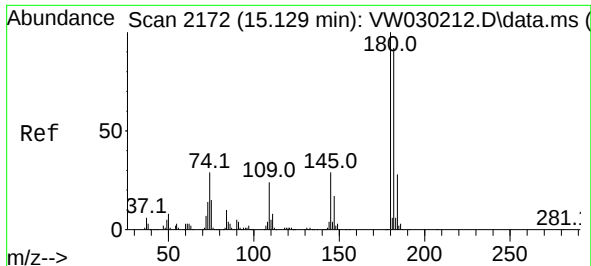
Tgt Ion: 75 Resp: 5384
Ion Ratio Lower Upper
75 100
155 69.8 60.5 90.7
157 104.6 66.9 100.3#



#69
1,3,5-Trichlorobenzene
Concen: 8.589 ug/L
RT: 15.123 min Scan# 2171
Delta R.T. 0.500 min
Lab File: VW030216.D
Acq: 24 Sep 2024 11:40

Tgt Ion:180 Resp: 52815
Ion Ratio Lower Upper
180 100
182 86.9 75.5 113.3
184 29.4 23.4 35.0
145 31.6 22.6 34.0





#70

1,2,4-trichlorobenzene

Concen: 10.603 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. -0.006 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Instrument :

MSVOA_W

ClientSampleId :

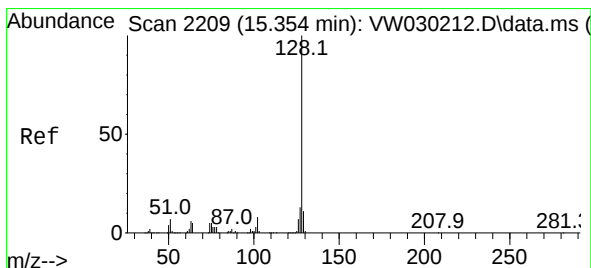
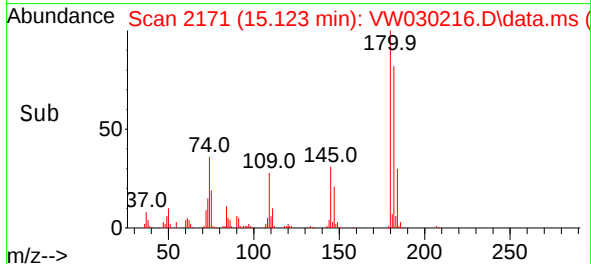
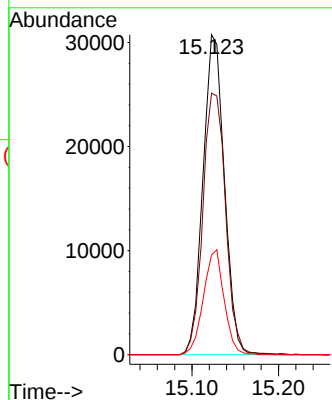
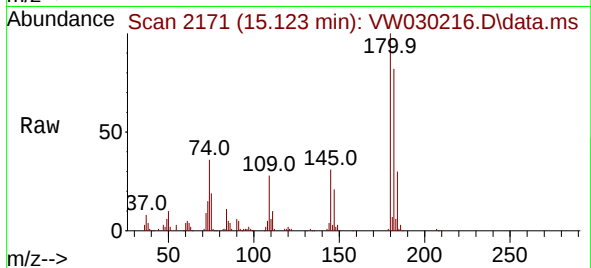
Tgt Ion:180 Resp: 52815

Ion Ratio Lower Upper

180 100

182 86.9 73.4 110.2

145 31.6 24.0 36.0



#71

Naphthalene

Concen: 34.998 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. 0.006 min

Lab File: VW030216.D

Acq: 24 Sep 2024 11:40

Tgt Ion:128 Resp: 316574

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

129 11.0 8.4 12.6

