

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW062424\
 Data File : VW029326.D
 Acq On : 24 Jun 2024 14:46
 Operator : SY/MD
 Sample : P2982-16DL 2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 25 01:40:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM061824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Tue Jun 25 01:37:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	292752	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	268715	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.550	152	122247	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	91259	22.522	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	90.080%		
7) Chloroethane-d5	2.899	69	70546	20.617	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	82.480%		
11) 1,1-Dichloroethene-d2	4.021	65	43026	21.992	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	87.960%		
21) 2-Butanone-d5	7.075	46	57999	47.842	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	95.680%		
24) Chloroform-d	7.648	84	198251	22.702	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	90.800%		
26) 1,2-Dichloroethane-d4	8.307	65	111127	22.163	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	88.640%		
32) Benzene-d6	8.276	84	372199	22.804	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	91.200%		
36) 1,2-Dichloropropane-d6	9.270	67	119197	22.974	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	91.880%		
41) Toluene-d8	10.319	98	342593	23.725	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	94.880%		
43) trans-1,3-Dichloroprop...	10.575	79	46630	22.303	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	89.200%		
47) 2-Hexanone-d5	10.922	63	39295	48.313	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	96.620%		
56) 1,1,2,2-Tetrachloroeth...	12.690	84	95978	23.243	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	92.960%		
66) 1,2-Dichlorobenzene-d4	13.848	152	104059	24.523	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	98.080%		
Target Compounds						Qvalue
12) 1,1-Dichloroethene	4.039	96	66342	19.558	ug/L	88
13) Acetone	4.125	43	75039	72.836	ug/L	98
16) Methylene chloride	4.923	84	92549	17.979	ug/L	96
17) trans-1,2-Dichloroethene	5.429	96	162659	43.179	ug/L	95
18) Methyl tert-butyl Ether	5.423	73	149945	24.879	ug/L	98
19) 1,1-Dichloroethane	6.216	63	230714	28.357	ug/L	95
20) cis-1,2-Dichloroethene	7.173	96	165953	39.949	ug/L	98
22) 2-Butanone	7.173	43	70633	50.014	ug/L	96
25) Chloroform	7.673	83	348671	43.887	ug/L	98
27) 1,2-Dichloroethane	8.398	62	64326	10.978	ug/L	100
31) Carbon tetrachloride	8.069	117	38192	6.997	ug/L	94
33) Benzene	8.325	78	517590	32.057	ug/L	100
34) Trichloroethene	9.087	95	191329	44.417	ug/L	93
37) 1,2-Dichloropropane	9.368	63	101117	22.288	ug/L	99
38) Bromodichloromethane	9.642	83	160802	28.989	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	221455	34.531	ug/L	98
40) 4-Methyl-2-pentanone	10.209	43	315496	112.197	ug/L	98
42) Toluene	10.386	91	621946	37.470	ug/L	100
44) trans-1,3-Dichloropropene	10.605	75	26564	4.905	ug/L	97

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

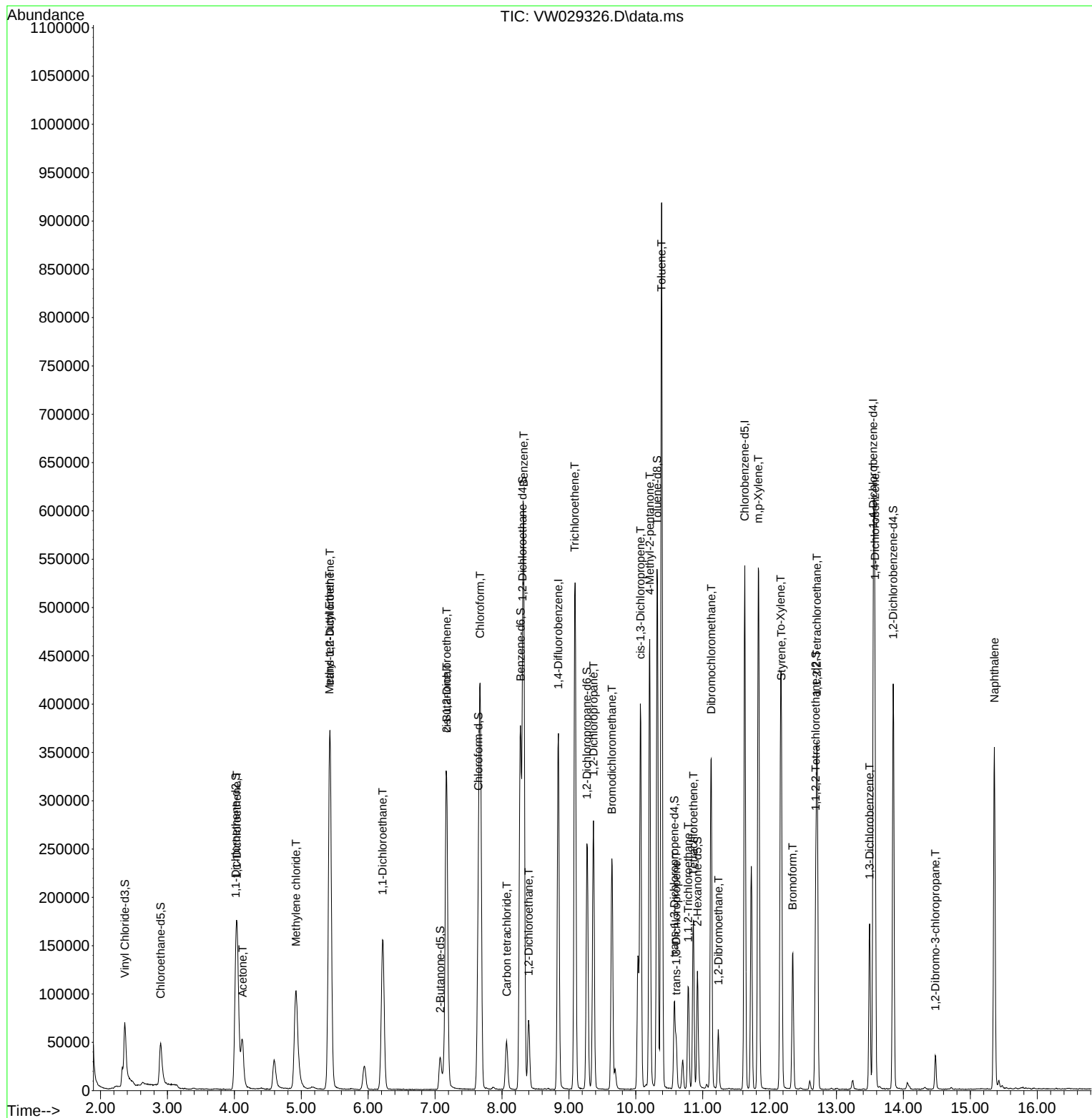
45) 1,1,2-Trichloroethane	10.782	97	31746	10.047	ug/L	93
46) Tetrachloroethene	10.861	164	36553	12.139	ug/L	93
49) Dibromochloromethane	11.129	129	173647	52.572	ug/L	99
50) 1,2-Dibromoethane	11.233	107	38868	13.703	ug/L	99
53) m,p-Xylene	11.831	106	162521	23.615	ug/L	97
54) o-Xylene	12.166	106	73823	11.478	ug/L	96
55) Styrene	12.178	104	124660	11.116	ug/L	98
57) 1,1,2,2-Tetrachloroethane	12.708	83	166204	42.523	ug/L	97
59) Bromoform	12.343	173	61392	36.642	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	63189	8.964	ug/L	95
65) 1,4-Dichlorobenzene	13.574	146	153516	20.469	ug/L	92
68) 1,2-Dibromo-3-chloropr...	14.476	75	8968	14.412	ug/L	92
71) Naphthalene	15.360	128	277112	36.407	ug/L	100

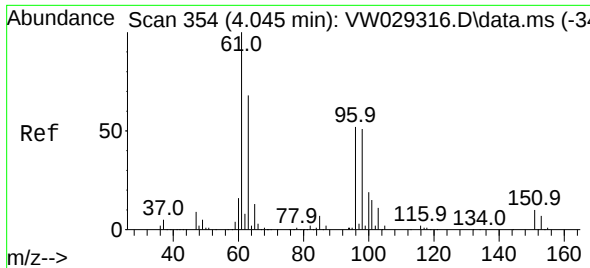
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0
QLast Update : Tue Jun 25 01:37:56 2024
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 19.558 ug/L

RT: 4.039 min Scan# 354

Delta R.T. -0.006 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :

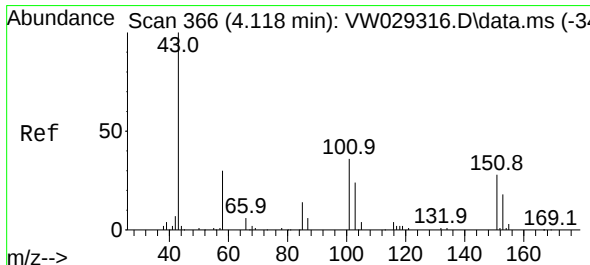
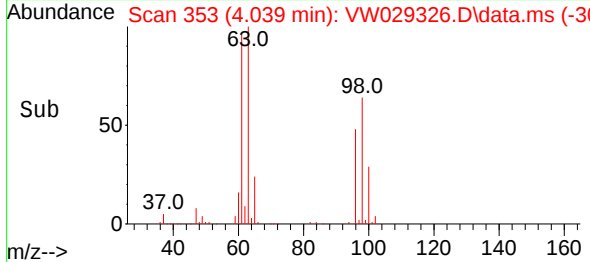
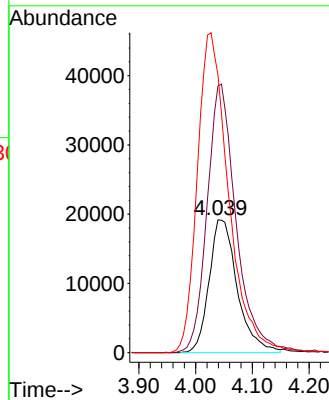
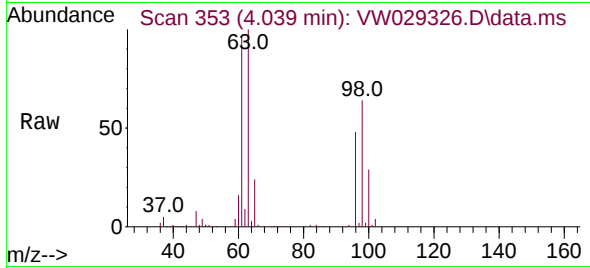
Tgt Ion: 96 Resp: 66342

Ion Ratio Lower Upper

96 100

61 200.8 140.1 260.3

63 209.2 122.0 226.6



#13

Acetone

Concen: 72.836 ug/L

RT: 4.125 min Scan# 367

Delta R.T. 0.006 min

Lab File: VW029326.D

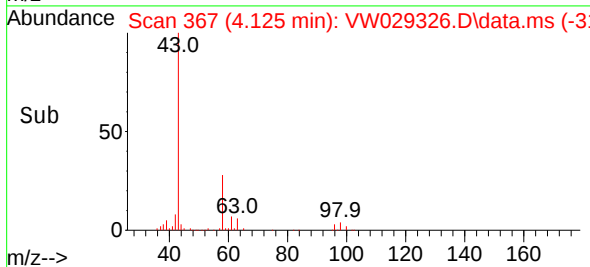
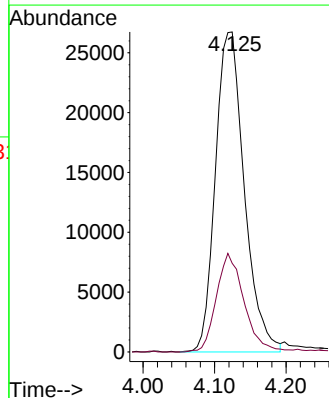
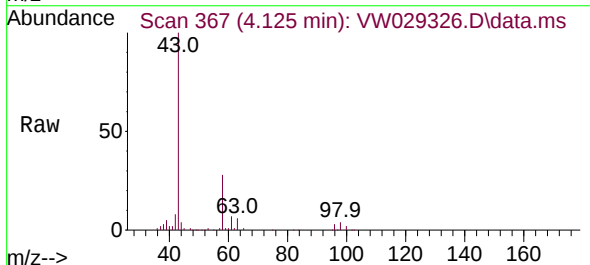
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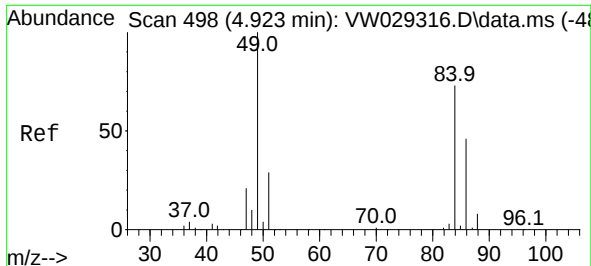
Tgt Ion: 43 Resp: 75039

Ion Ratio Lower Upper

43 100

58 29.6 0.0 61.4

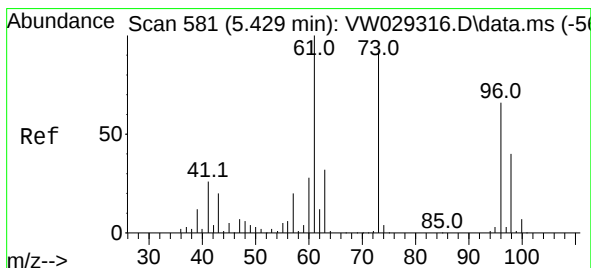
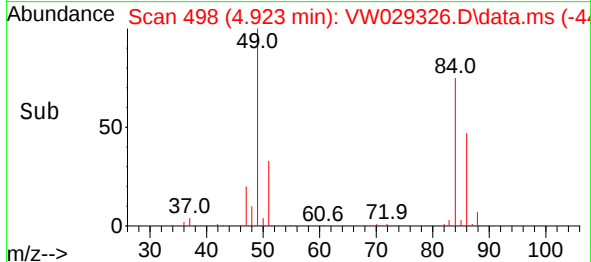
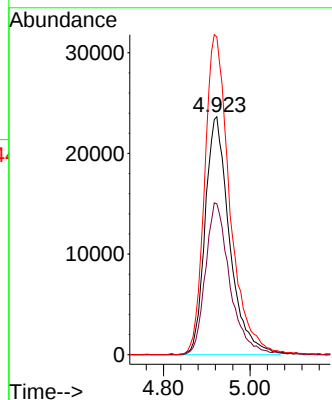
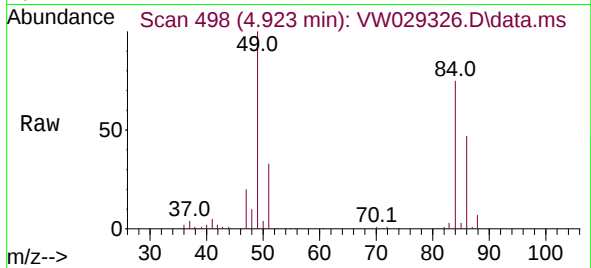




#16
Methylene chloride
Concen: 17.979 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.000 min
Lab File: VW029326.D
Acq: 24 Jun 2024 14:46

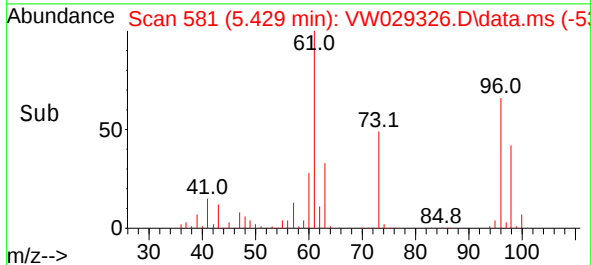
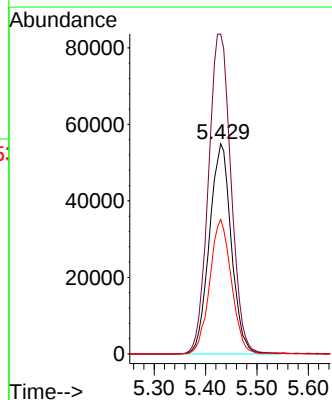
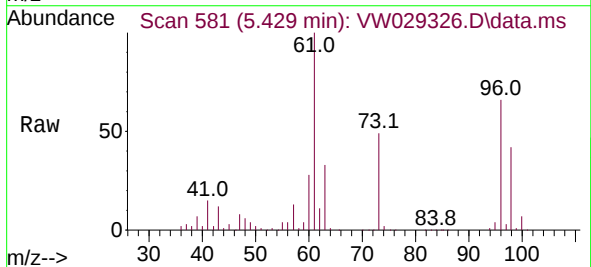
Instrument :
MSVOA_W
ClientSampleId :

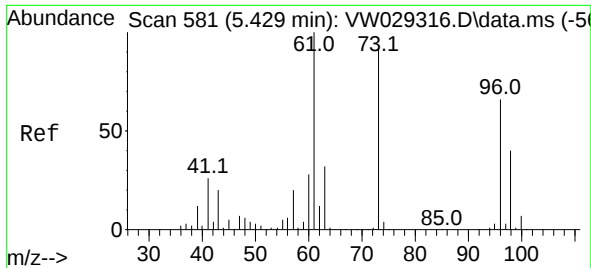
Tgt Ion: 84 Resp: 92549
Ion Ratio Lower Upper
84 100
86 63.4 41.4 77.0
49 133.6 95.7 177.7



#17
trans-1,2-Dichloroethene
Concen: 43.179 ug/L
RT: 5.429 min Scan# 581
Delta R.T. 0.000 min
Lab File: VW029326.D
Acq: 24 Jun 2024 14:46

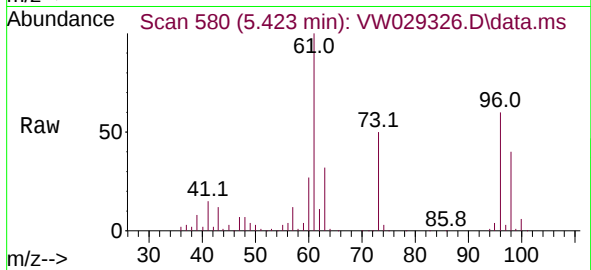
Tgt Ion: 96 Resp: 162659
Ion Ratio Lower Upper
96 100
61 152.2 101.5 188.5
98 64.0 43.3 80.3





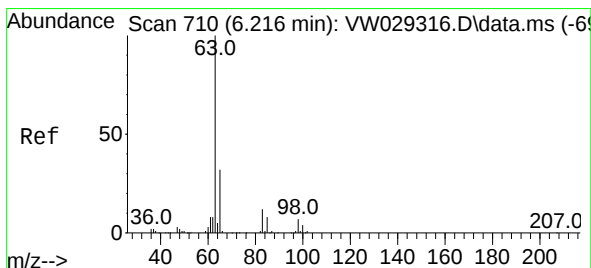
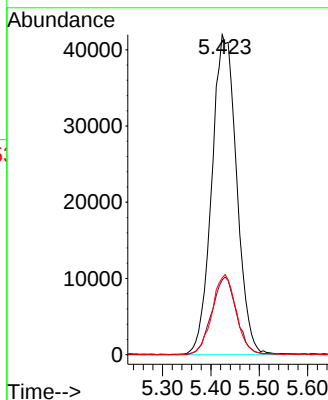
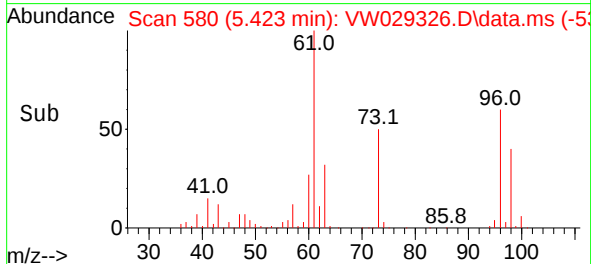
#18
Methyl tert-butyl Ether
Concen: 24.879 ug/L
RT: 5.423 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW029326.D
Acq: 24 Jun 2024 14:46

Instrument :
MSVOA_W
ClientSampleId :

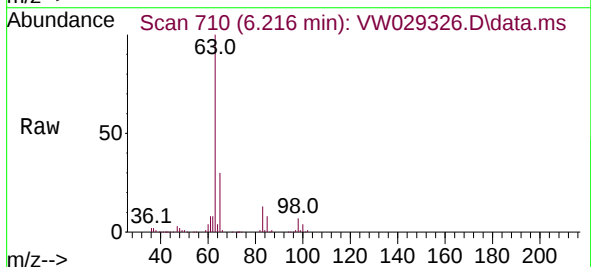


Tgt Ion: 73 Resp: 149945

Ion	Ratio	Lower	Upper
73	100		
43	23.7	19.5	29.3
57	24.3	18.4	27.6

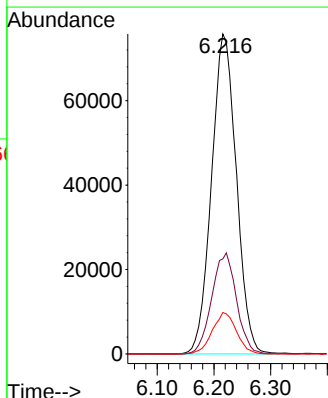
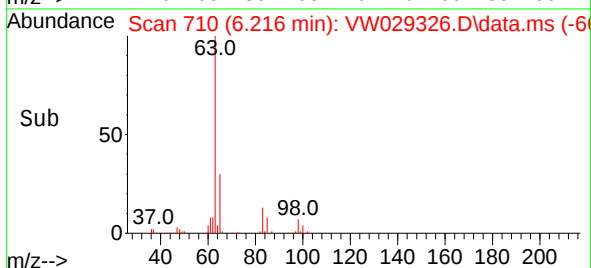


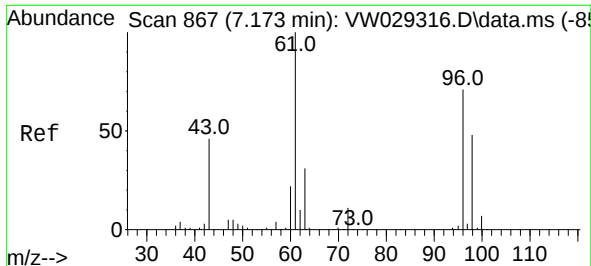
#19
1,1-Dichloroethane
Concen: 28.357 ug/L
RT: 6.216 min Scan# 710
Delta R.T. 0.000 min
Lab File: VW029326.D
Acq: 24 Jun 2024 14:46



Tgt Ion: 63 Resp: 230714

Ion	Ratio	Lower	Upper
63	100		
65	29.7	23.4	43.4
83	12.9	8.9	16.5





#20

cis-1,2-Dichloroethene

Concen: 39.949 ug/L

RT: 7.173 min Scan# 867

Delta R.T. 0.000 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :

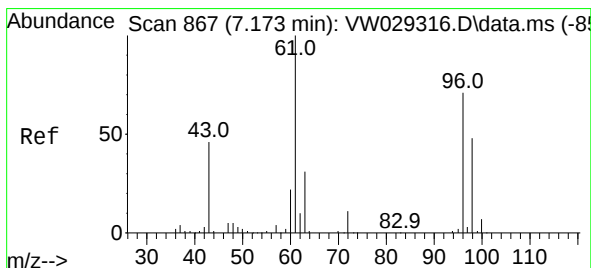
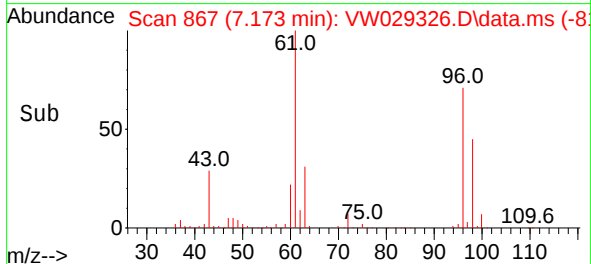
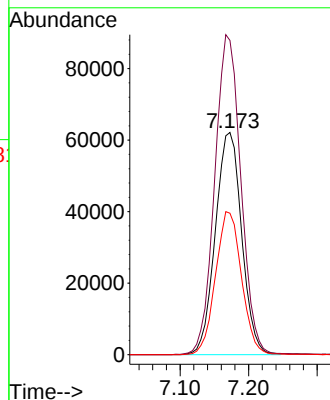
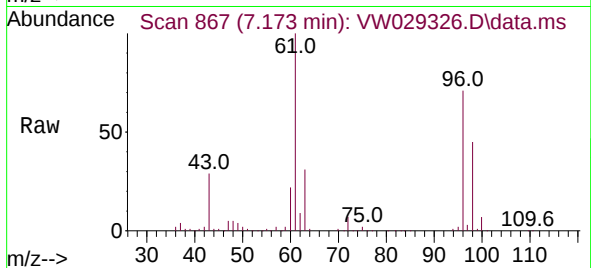
Tgt Ion: 96 Resp: 165953

Ion Ratio Lower Upper

96 100

61 141.4 97.8 181.6

98 63.7 43.0 79.8



#22

2-Butanone

Concen: 50.014 ug/L

RT: 7.173 min Scan# 867

Delta R.T. 0.000 min

Lab File: VW029326.D

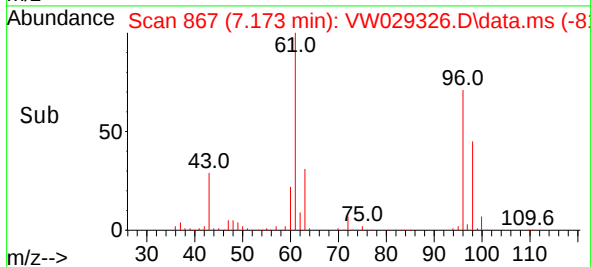
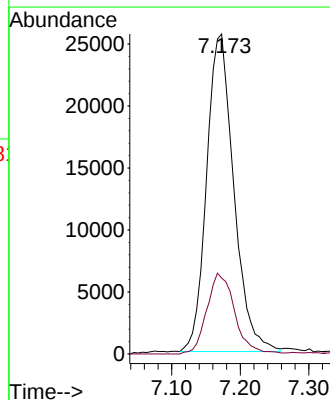
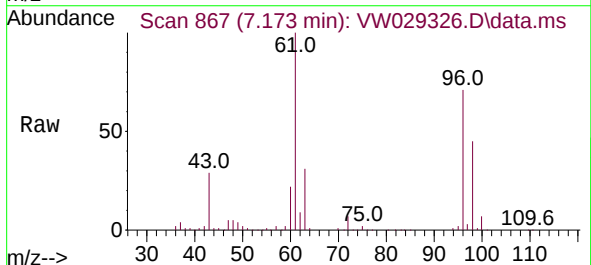
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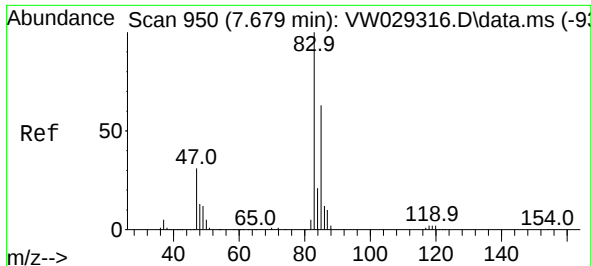
Tgt Ion: 43 Resp: 70633

Ion Ratio Lower Upper

43 100

72 25.7 11.9 35.7





#25

Chloroform

Concen: 43.887 ug/L

RT: 7.673 min Scan# 949

Delta R.T. -0.006 min

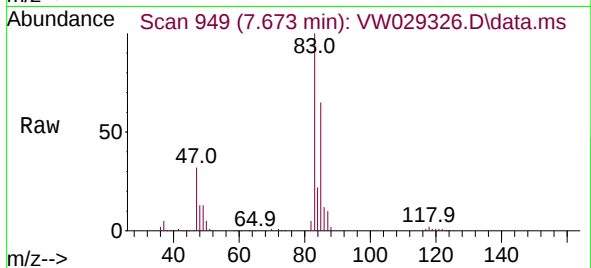
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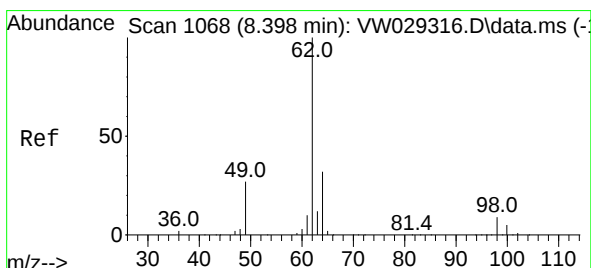
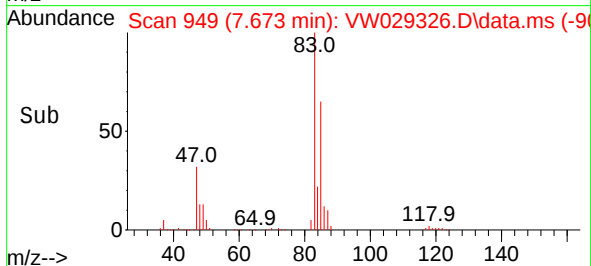
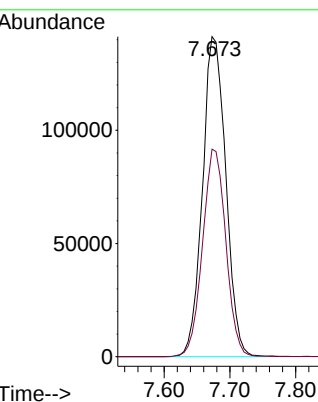
MSVOA_W

ClientSampleId :



Tgt Ion: 83 Resp: 348671

Ion	Ratio	Lower	Upper
83	100		
85	64.8	44.4	82.4



#27

1,2-Dichloroethane

Concen: 10.978 ug/L

RT: 8.398 min Scan# 1068

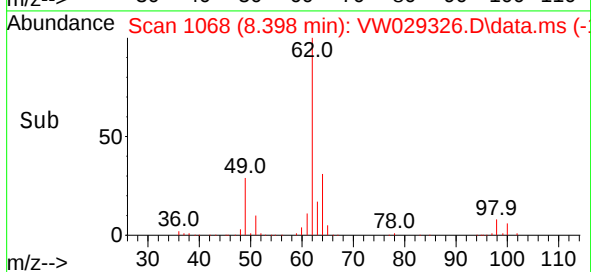
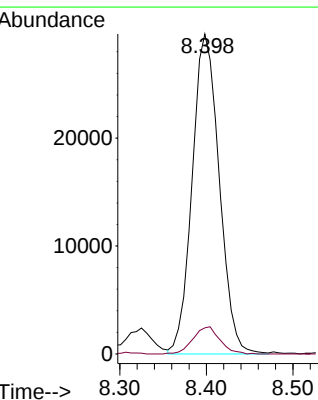
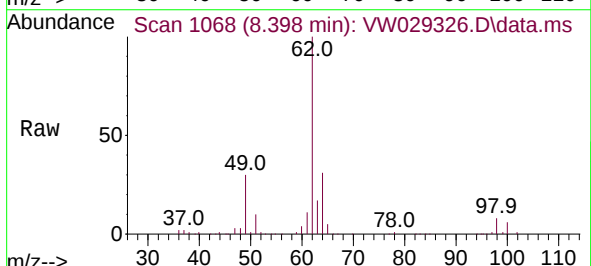
Delta R.T. 0.000 min

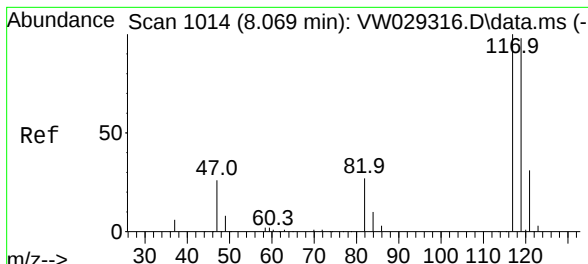
Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Tgt Ion: 62 Resp: 64326

Ion	Ratio	Lower	Upper
62	100		
98	8.2	6.6	10.0

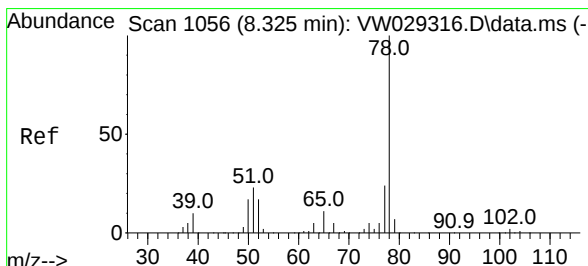
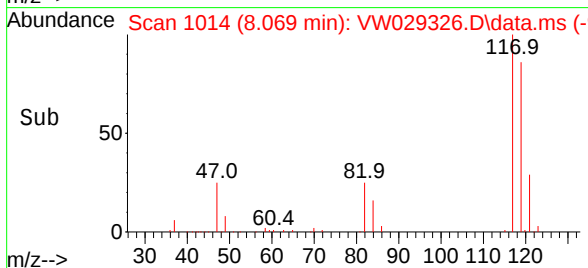
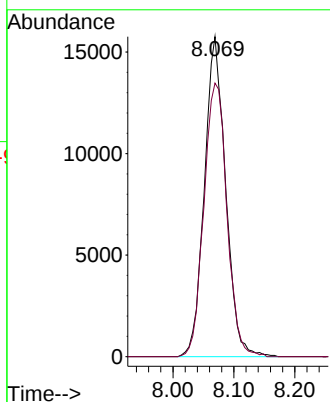
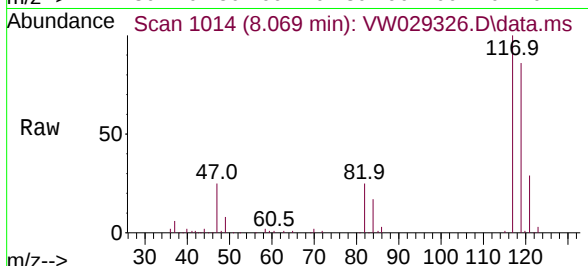




#31
Carbon tetrachloride
Concen: 6.997 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. 0.000 min
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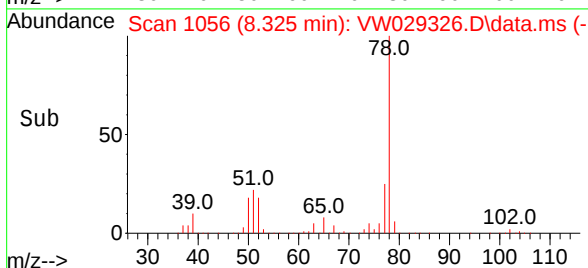
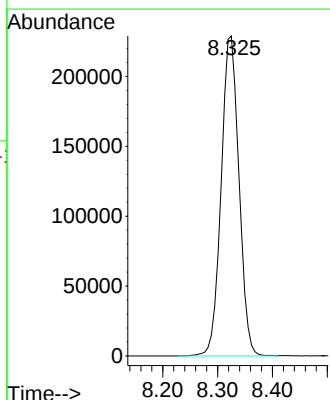
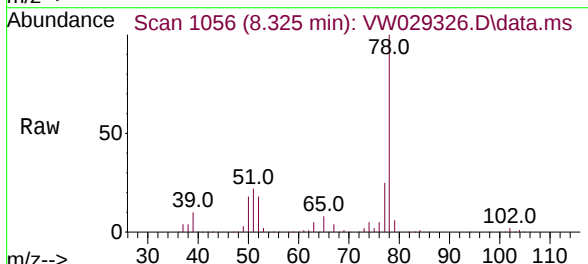
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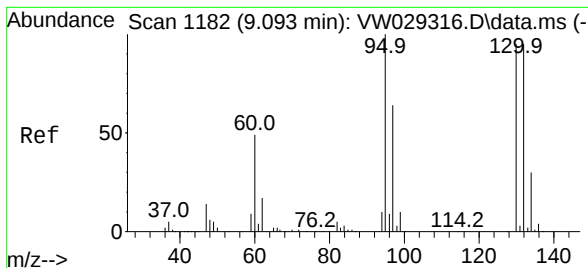
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Ion Ratio Lower Upper
117 100
119 92.8 79.0 118.4



#33
Benzene
Concen: 32.057 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW029326.D
Acq: 24 Jun 2024 14:46

Tgt Ion: 78 Resp: 517590





#34

Trichloroethene

Concen: 44.417 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.006 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 191329

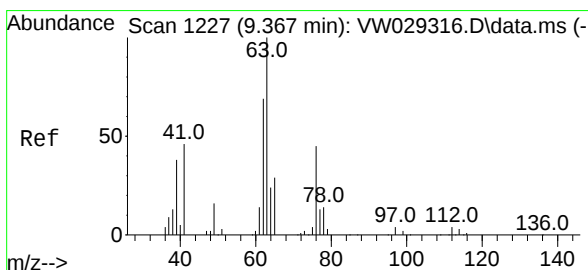
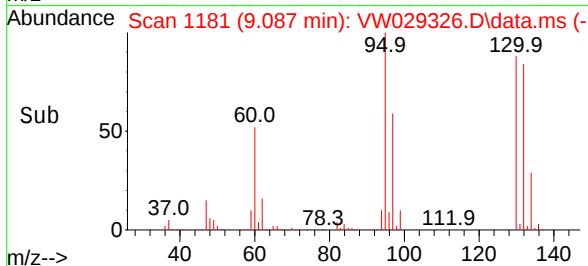
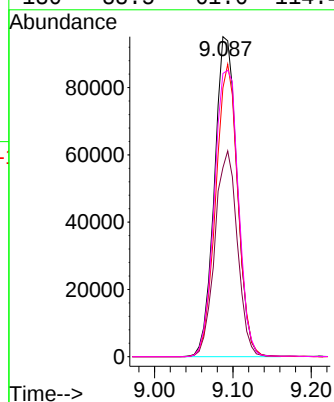
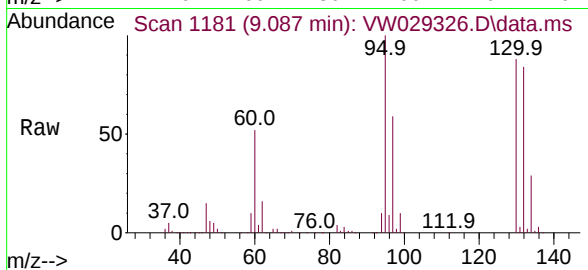
Ion Ratio Lower Upper

95 100

97 59.1 45.7 84.9

132 84.0 66.4 123.4

130 88.5 61.6 114.4



#37

1,2-Dichloropropane

Concen: 22.288 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW029326.D

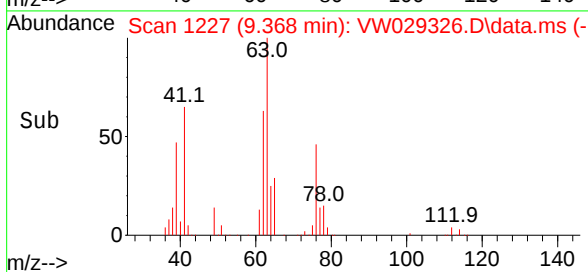
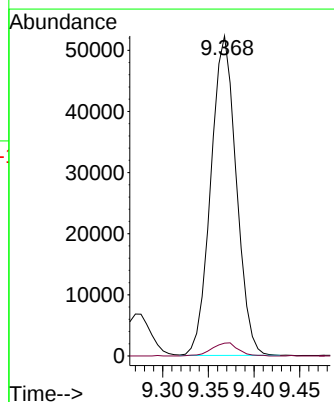
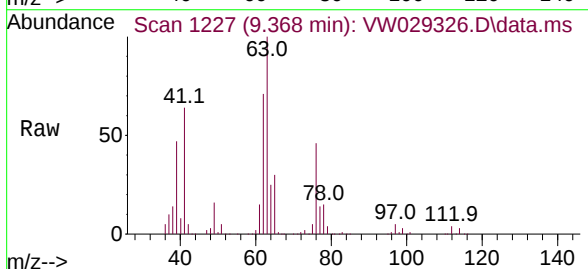
Acq: 24 Jun 2024 14:46

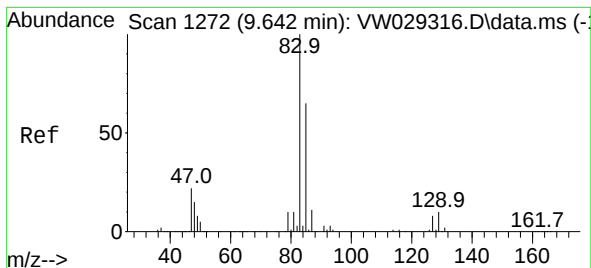
Tgt Ion: 63 Resp: 101117

Ion Ratio Lower Upper

63 100

112 4.3 3.8 5.6





#38

Bromodichloromethane

Concen: 28.989 ug/L

RT: 9.642 min Scan# 1272

Delta R.T. 0.000 min

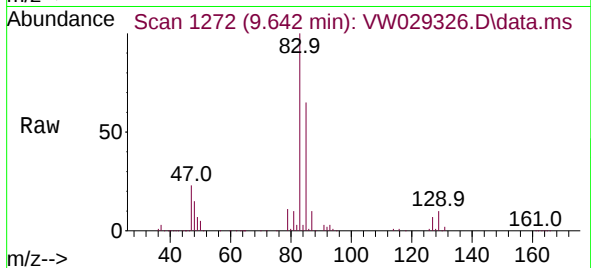
Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :



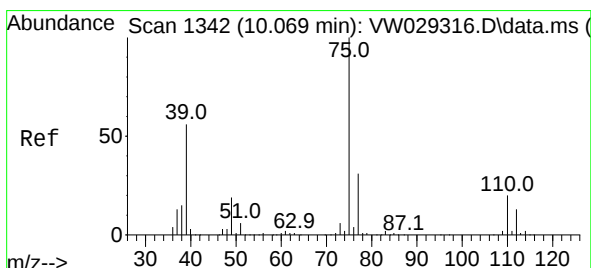
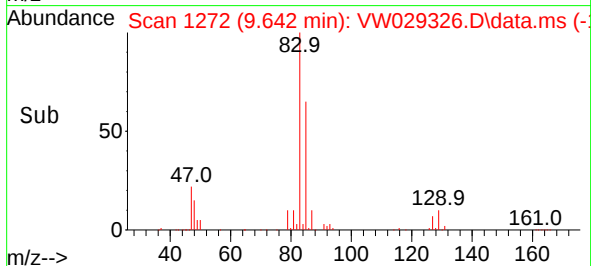
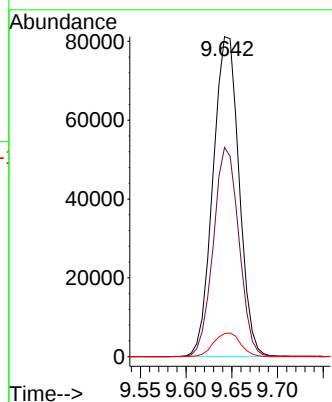
Tgt Ion: 83 Resp: 160802

Ion Ratio Lower Upper

83 100

85 65.4 45.1 83.9

127 7.2 5.8 8.6



#39

cis-1,3-Dichloropropene

Concen: 34.531 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VW029326.D

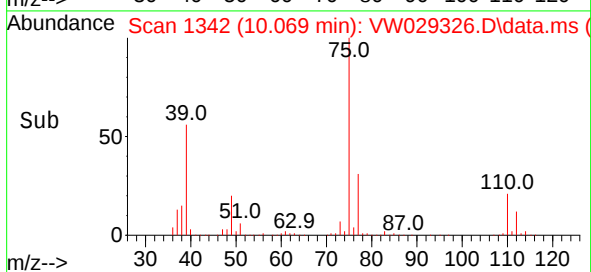
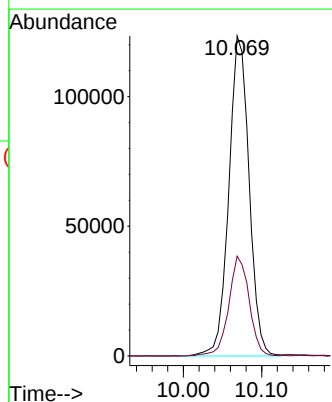
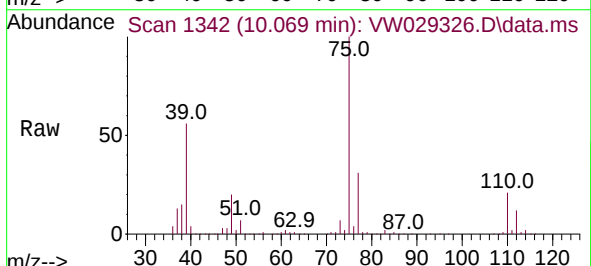
Acq: 24 Jun 2024 14:46

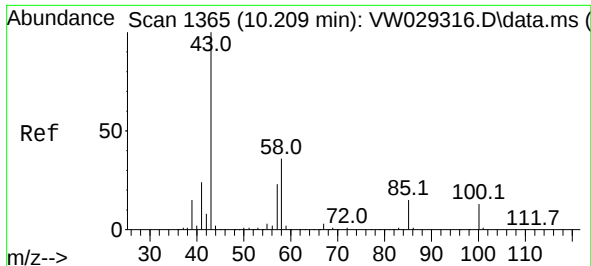
Tgt Ion: 75 Resp: 221455

Ion Ratio Lower Upper

75 100

77 31.2 22.7 42.1





#40

4-Methyl-2-pentanone

Concen: 112.197 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :

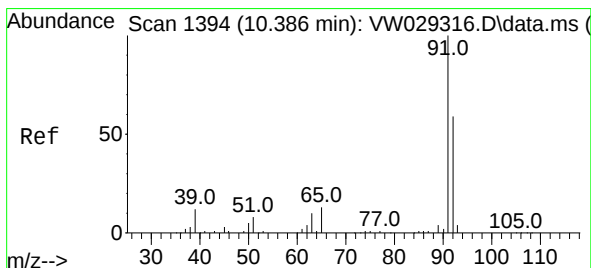
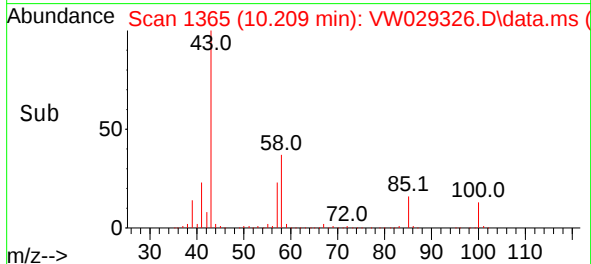
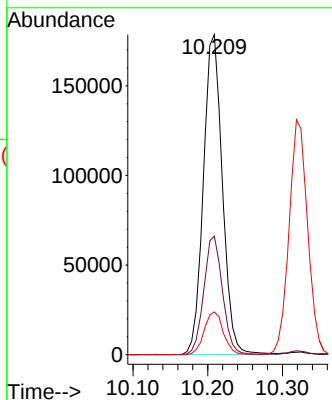
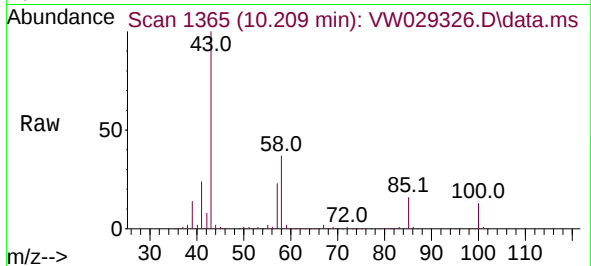
Tgt Ion: 43 Resp: 315496

Ion Ratio Lower Upper

43 100

58 36.4 28.2 42.4

100 13.5 11.0 16.4



#42

Toluene

Concen: 37.470 ug/L

RT: 10.386 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VW029326.D

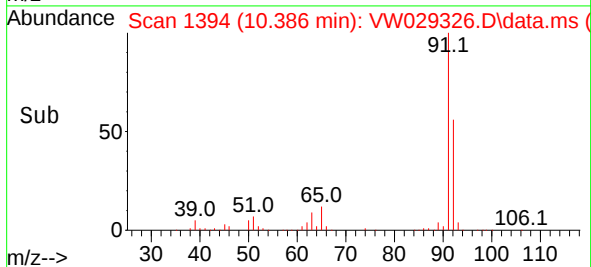
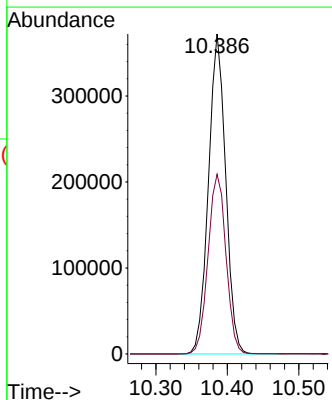
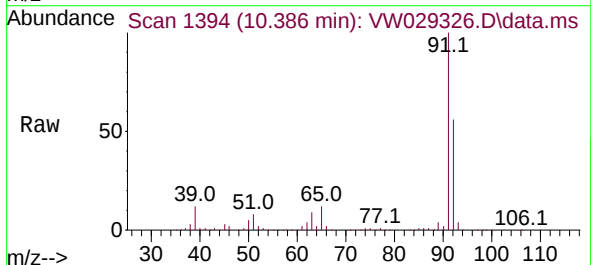
Acq: 24 Jun 2024 14:46

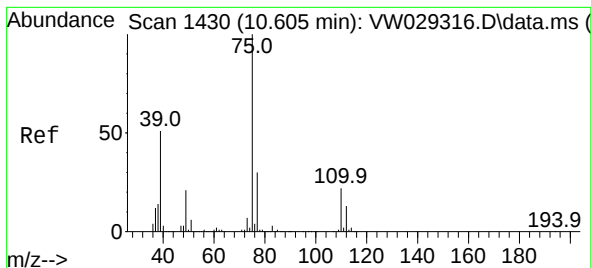
Tgt Ion: 91 Resp: 621946

Ion Ratio Lower Upper

91 100

92 56.1 39.3 73.1





#44

trans-1,3-Dichloropropene

Concen: 4.905 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

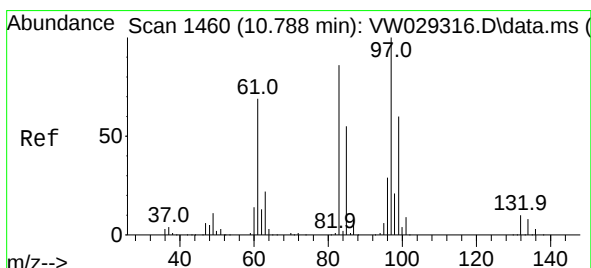
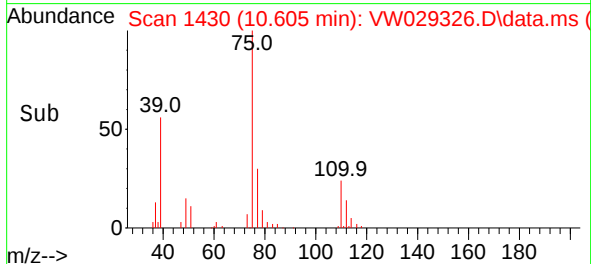
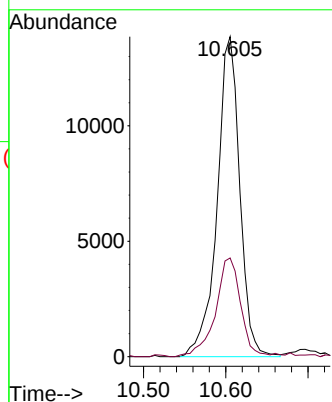
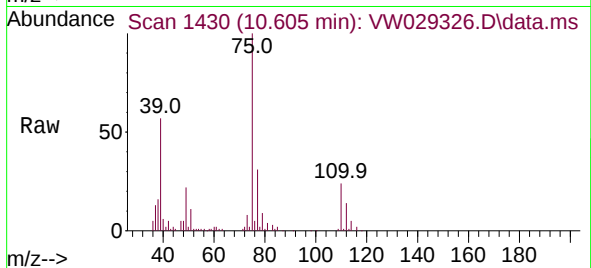
ClientSampleId :

Tgt Ion: 75 Resp: 26564

Ion Ratio Lower Upper

75 100

77 30.8 22.7 42.1



#45

1,1,2-Trichloroethane

Concen: 10.047 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.006 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Tgt Ion: 97 Resp: 31746

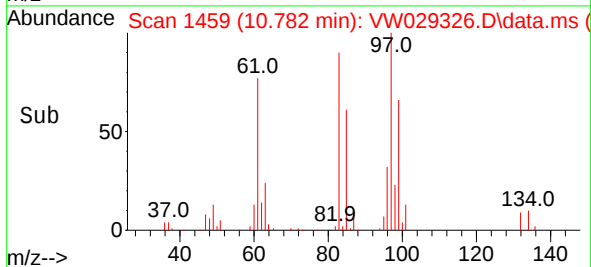
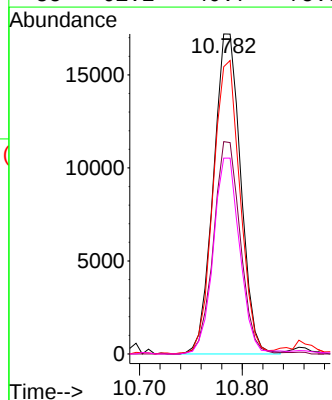
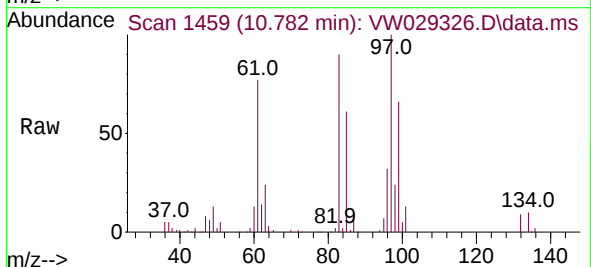
Ion Ratio Lower Upper

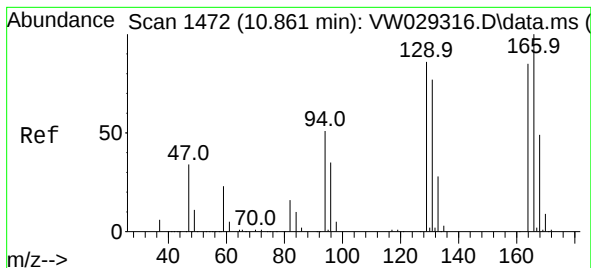
97 100

99 66.4 42.3 78.5

83 89.7 57.7 107.1

85 61.2 40.7 75.5





#46

Tetrachloroethene

Concen: 12.139 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. 0.000 min

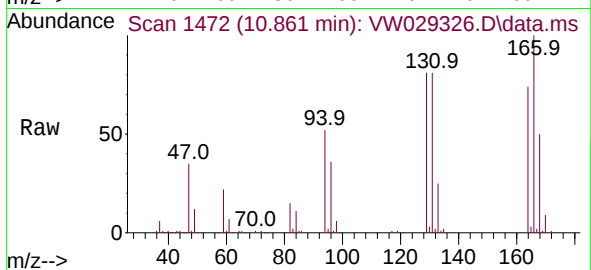
Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:164 Resp: 36553

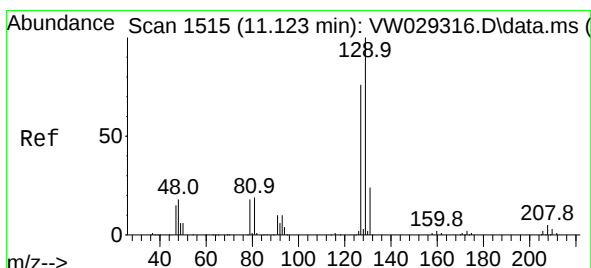
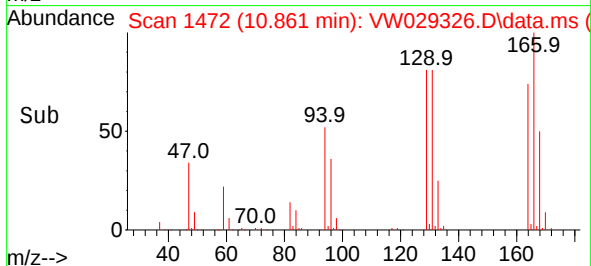
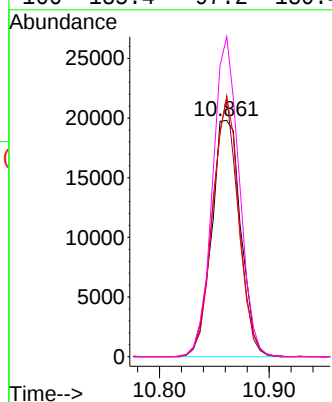
Ion Ratio Lower Upper

164 100

129 110.3 68.5 127.3

131 109.6 71.8 133.4

166 135.4 97.2 180.4



#49

Dibromochloromethane

Concen: 52.572 ug/L

RT: 11.129 min Scan# 1516

Delta R.T. 0.006 min

Lab File: VW029326.D

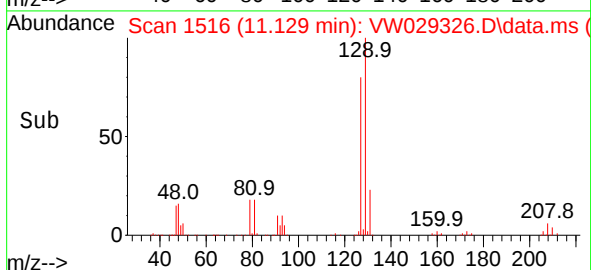
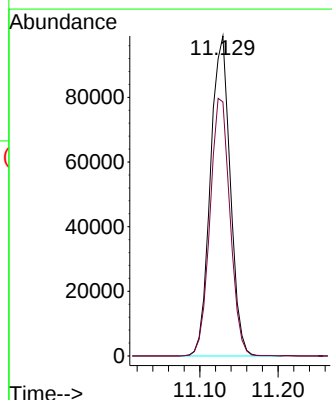
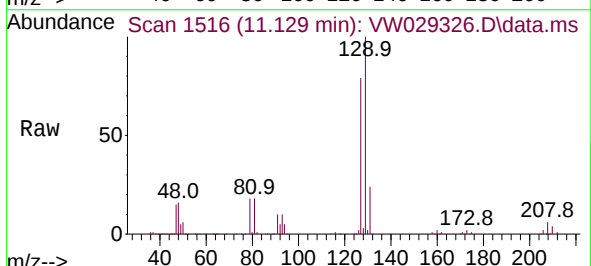
Acq: 24 Jun 2024 14:46

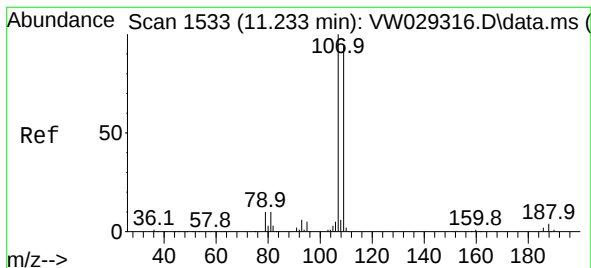
Tgt Ion:129 Resp: 173647

Ion Ratio Lower Upper

129 100

127 79.4 54.8 101.8





#50

1,2-Dibromoethane

Concen: 13.703 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :

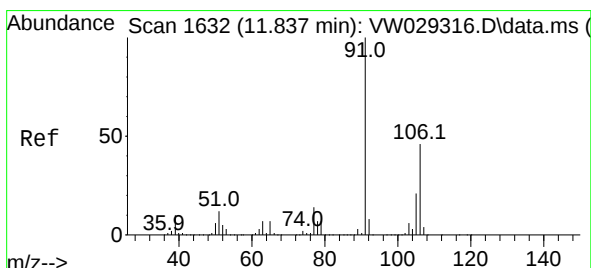
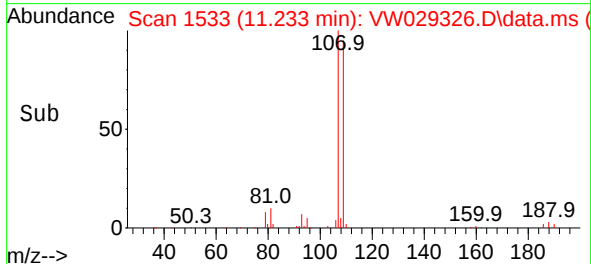
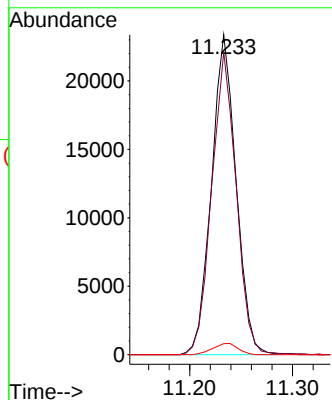
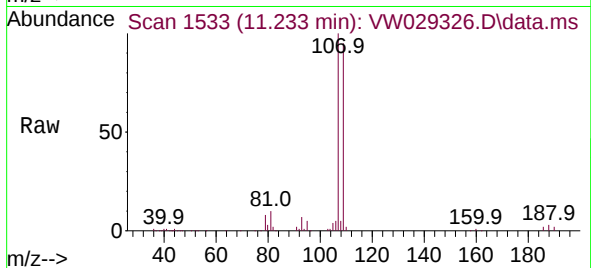
Tgt Ion:107 Resp: 38868

Ion Ratio Lower Upper

107 100

109 94.7 65.5 121.6

188 3.5 2.6 4.0



#53

m,p-Xylene

Concen: 23.615 ug/L

RT: 11.831 min Scan# 1631

Delta R.T. -0.006 min

Lab File: VW029326.D

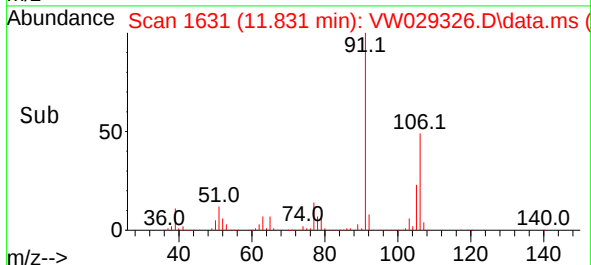
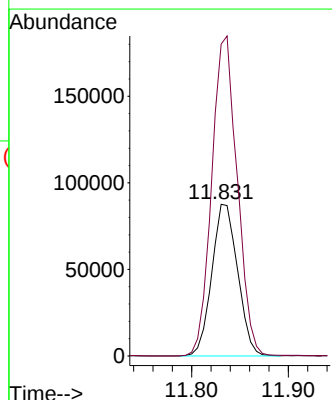
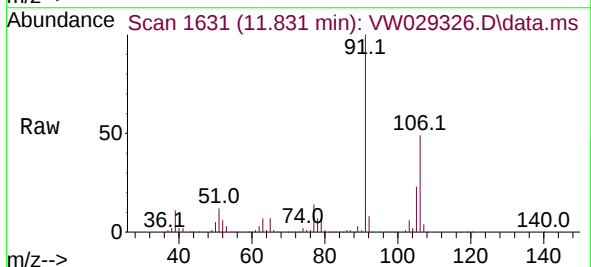
Acq: 24 Jun 2024 14:46

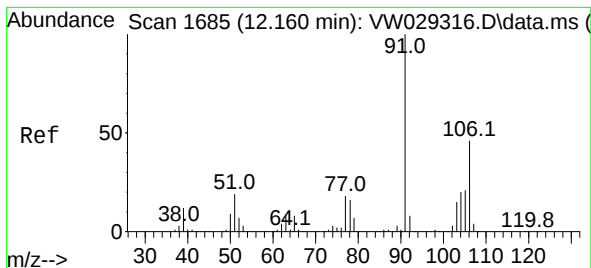
Tgt Ion:106 Resp: 162521

Ion Ratio Lower Upper

106 100

91 205.7 140.5 260.9





#54

o-Xylene

Concen: 11.478 ug/L

RT: 12.166 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

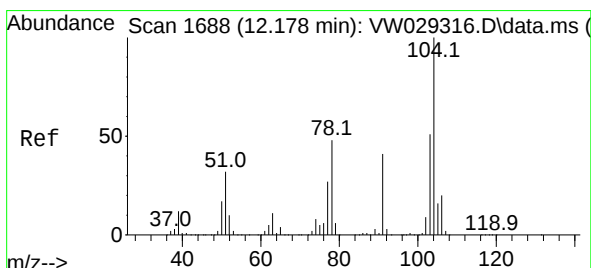
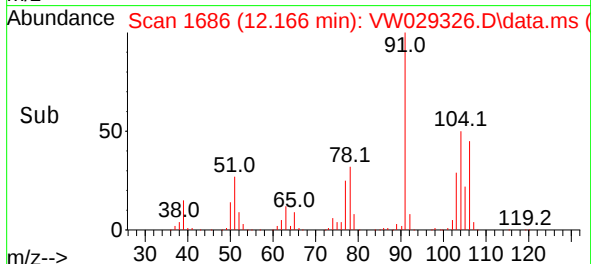
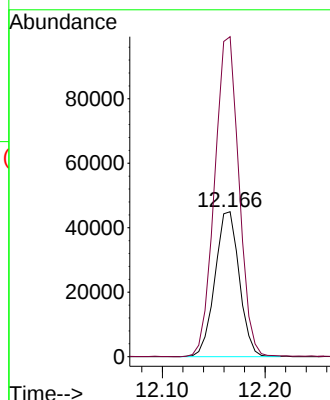
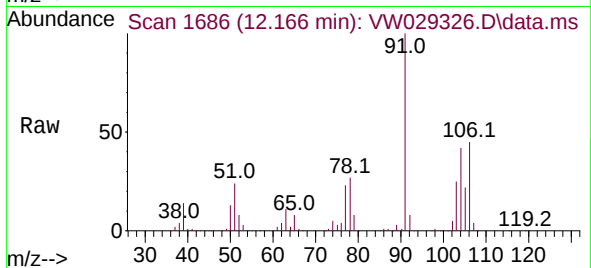
ClientSampleId :

Tgt Ion:106 Resp: 73823

Ion Ratio Lower Upper

106 100

91 220.8 149.9 278.5



#55

Styrene

Concen: 11.116 ug/L

RT: 12.178 min Scan# 1688

Delta R.T. 0.000 min

Lab File: VW029326.D

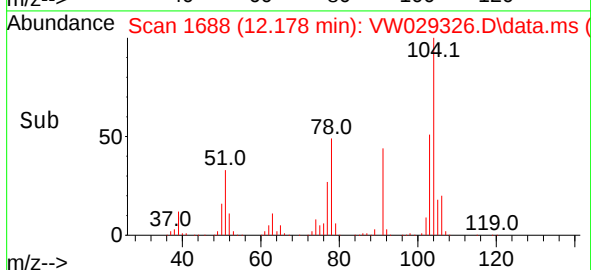
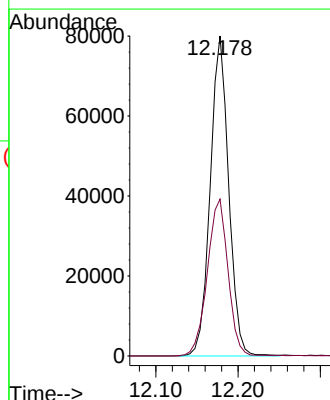
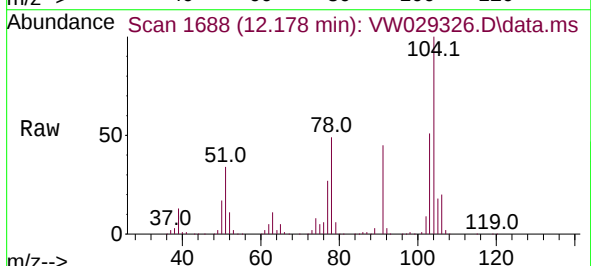
Acq: 24 Jun 2024 14:46

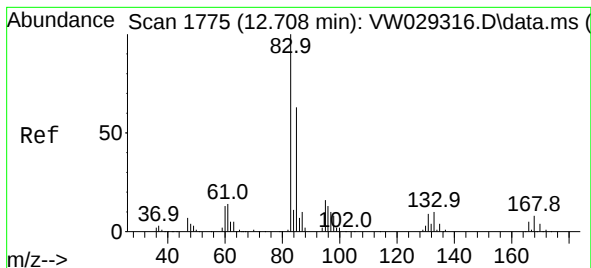
Tgt Ion:104 Resp: 124660

Ion Ratio Lower Upper

104 100

78 49.0 35.4 65.7

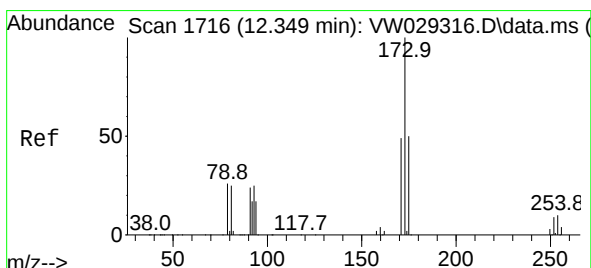
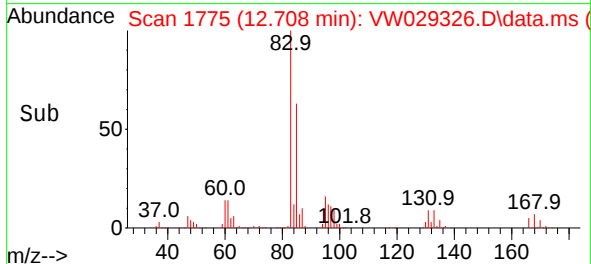
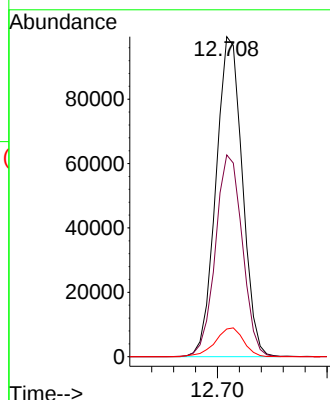
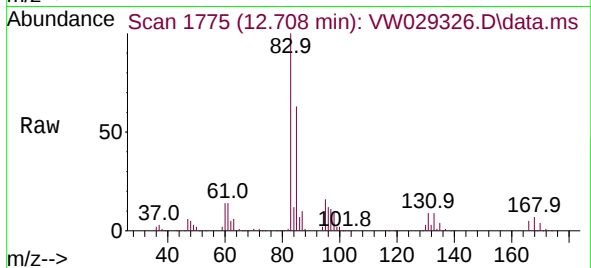




#57
1,1,2,2-Tetrachloroethane
Concen: 42.523 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VW029326.D
Acq: 24 Jun 2024 14:46

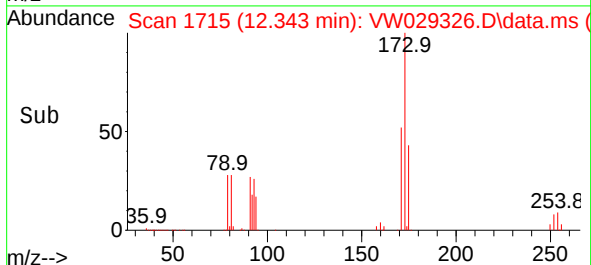
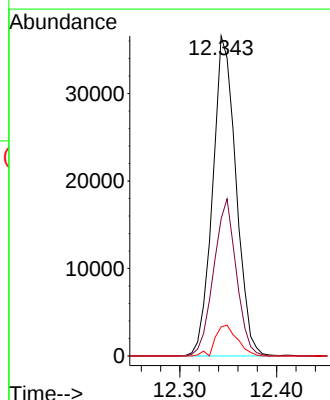
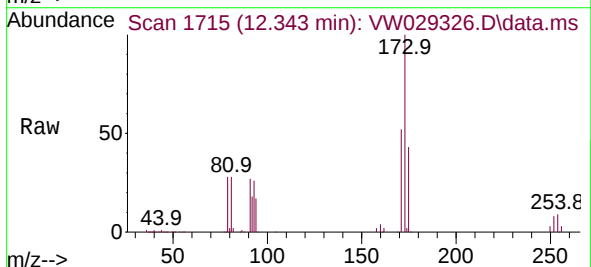
Instrument :
MSVOA_W
ClientSampleId :

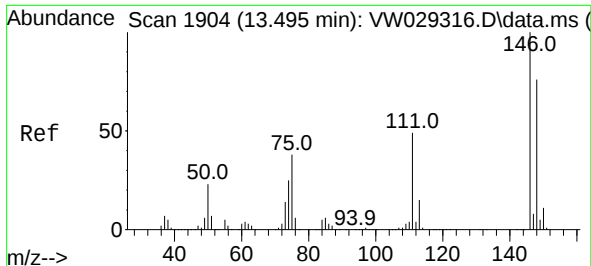
Tgt Ion: 83 Resp: 166204
Ion Ratio Lower Upper
83 100
85 63.0 45.8 85.0
131 8.7 7.8 11.6



#59
Bromoform
Concen: 36.642 ug/L
RT: 12.343 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VW029326.D
Acq: 24 Jun 2024 14:46

Tgt Ion:173 Resp: 61392
Ion Ratio Lower Upper
173 100
175 47.5 37.8 56.8
254 8.7 7.8 11.6





#64

1,3-Dichlorobenzene

Concen: 8.964 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :

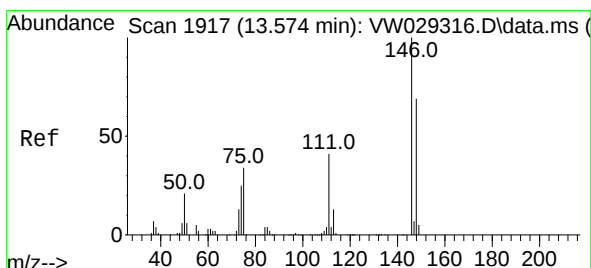
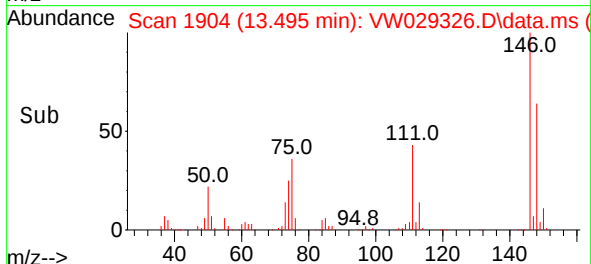
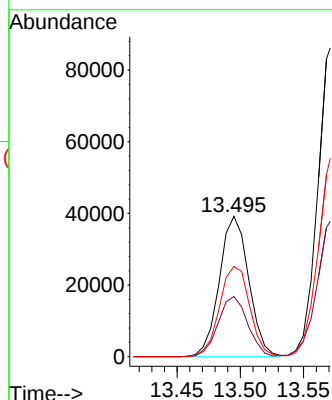
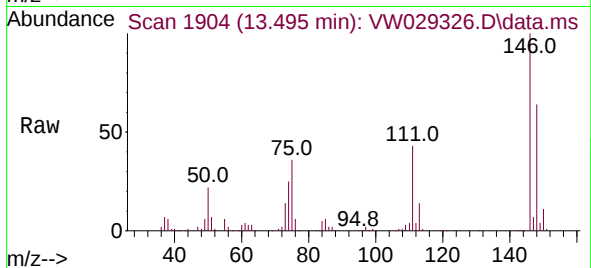
Tgt Ion:146 Resp: 63189

Ion Ratio Lower Upper

146 100

111 42.8 33.0 61.2

148 64.4 47.5 88.1



#65

1,4-Dichlorobenzene

Concen: 20.469 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

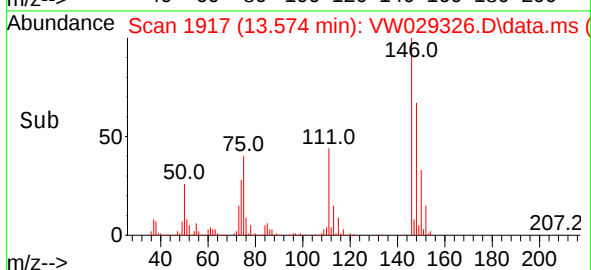
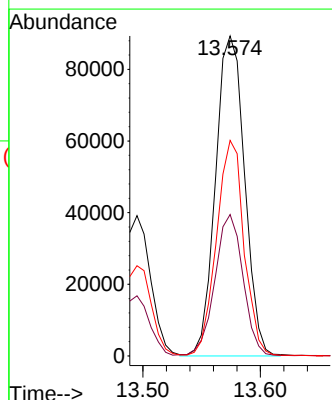
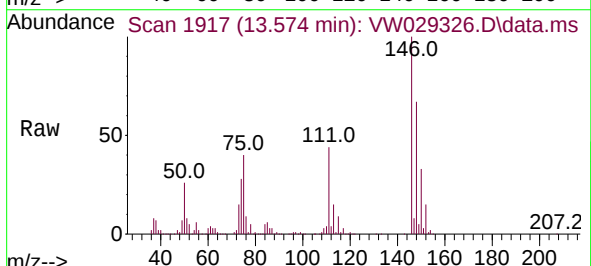
Tgt Ion:146 Resp: 153516

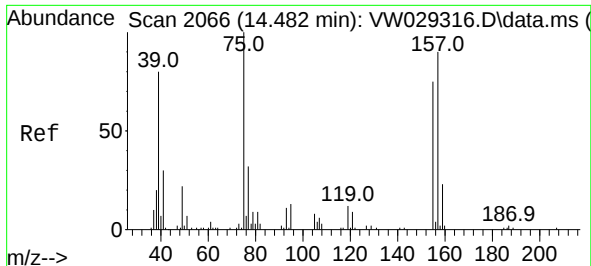
Ion Ratio Lower Upper

146 100

111 44.2 28.9 53.7

148 67.4 42.0 78.0





#68

1,2-Dibromo-3-chloropropane

Concen: 14.412 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.006 min

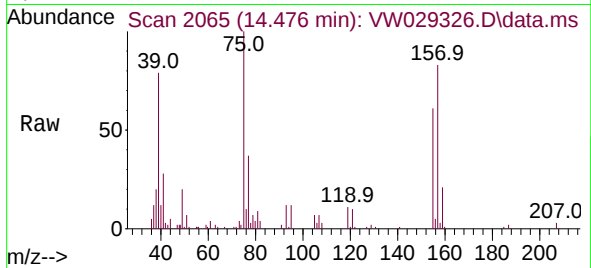
Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Instrument :

MSVOA_W

ClientSampleId :



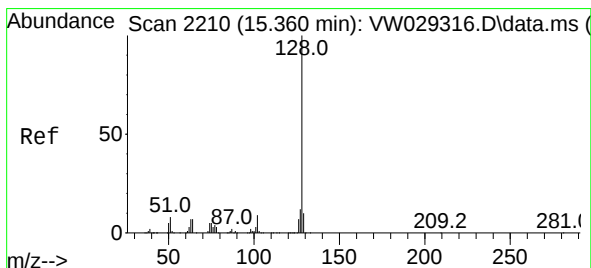
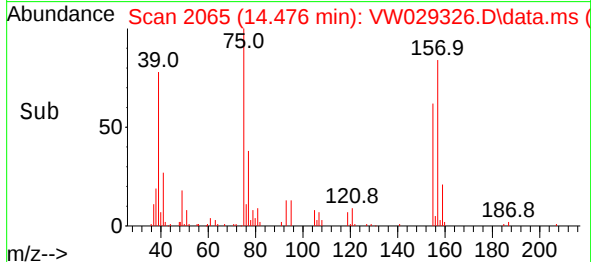
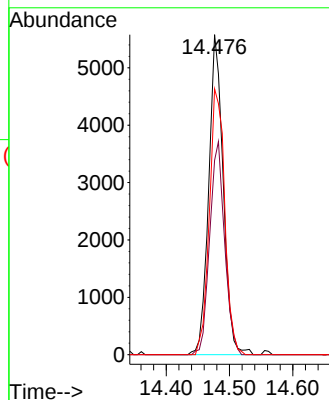
Tgt Ion: 75 Resp: 8968

Ion Ratio Lower Upper

75 100

155 60.7 51.0 76.6

157 83.1 58.8 88.2



#71

Naphthalene

Concen: 36.407 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VW029326.D

Acq: 24 Jun 2024 14:46

Tgt Ion:128 Resp: 277112

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

129 11.2 8.9 13.3

