

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082324\
 Data File : VW030004.D
 Acq On : 23 Aug 2024 12:43
 Operator : SY/MD
 Sample : P3696-05DL2X
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 24 05:02:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Aug 24 05:00:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	261974	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	239999	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	123403	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	57391	15.431	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	61.720%
7) Chloroethane-d5	2.893	69	49917	18.799	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.200%
11) 1,1-Dichloroethene-d2	4.021	65	28135	16.572	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	66.280%
21) 2-Butanone-d5	7.081	46	35051	34.385	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	68.780%
24) Chloroform-d	7.648	84	165007	24.332	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.320%
26) 1,2-Dichloroethane-d4	8.307	65	81311	21.050	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	84.200%
32) Benzene-d6	8.276	84	274983	21.205	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	84.840%
36) 1,2-Dichloropropane-d6	9.276	67	86760	20.953	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	83.800%
41) Toluene-d8	10.319	98	262243	22.744	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.960%
43) trans-1,3-Dichloroprop...	10.575	79	35869	21.408	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.640%
47) 2-Hexanone-d5	10.922	63	27128	39.733	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	79.460%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	75777	24.647	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.600%
66) 1,2-Dichlorobenzene-d4	13.848	152	86038	22.454	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.800%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.045	96	69304	19.365	ug/L	82
13) Acetone	4.131	43	54495	43.017	ug/L	94
16) Methylene chloride	4.917	84	91035	16.622	ug/L	87
17) trans-1,2-Dichloroethene	5.423	96	171415	44.446	ug/L	87
18) Methyl tert-butyl Ether	5.429	73	142969	22.492	ug/L	96
19) 1,1-Dichloroethane	6.222	63	216582	26.627	ug/L	99
20) cis-1,2-Dichloroethene	7.173	96	173829	41.552	ug/L	91
22) 2-Butanone	7.173	43	46802	28.834	ug/L	83
25) Chloroform	7.679	83	361481	47.169	ug/L	99
27) 1,2-Dichloroethane	8.398	62	60329	10.802	ug/L	96
31) Carbon tetrachloride	8.069	117	41244	7.531	ug/L	100
33) Benzene	8.325	78	523134	31.813	ug/L	100
34) Trichloroethene	9.093	95	200163	46.433	ug/L	96
37) 1,2-Dichloropropane	9.368	63	93633	20.778	ug/L	98
38) Bromodichloromethane	9.642	83	167151	31.149	ug/L	96
39) cis-1,3-Dichloropropene	10.069	75	210602	32.091	ug/L	97
40) 4-Methyl-2-pentanone	10.209	43	213544	74.605	ug/L	# 88
42) Toluene	10.386	91	648283	38.623	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	25063	4.600	ug/L	98

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 Quant Title : SFAM01.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

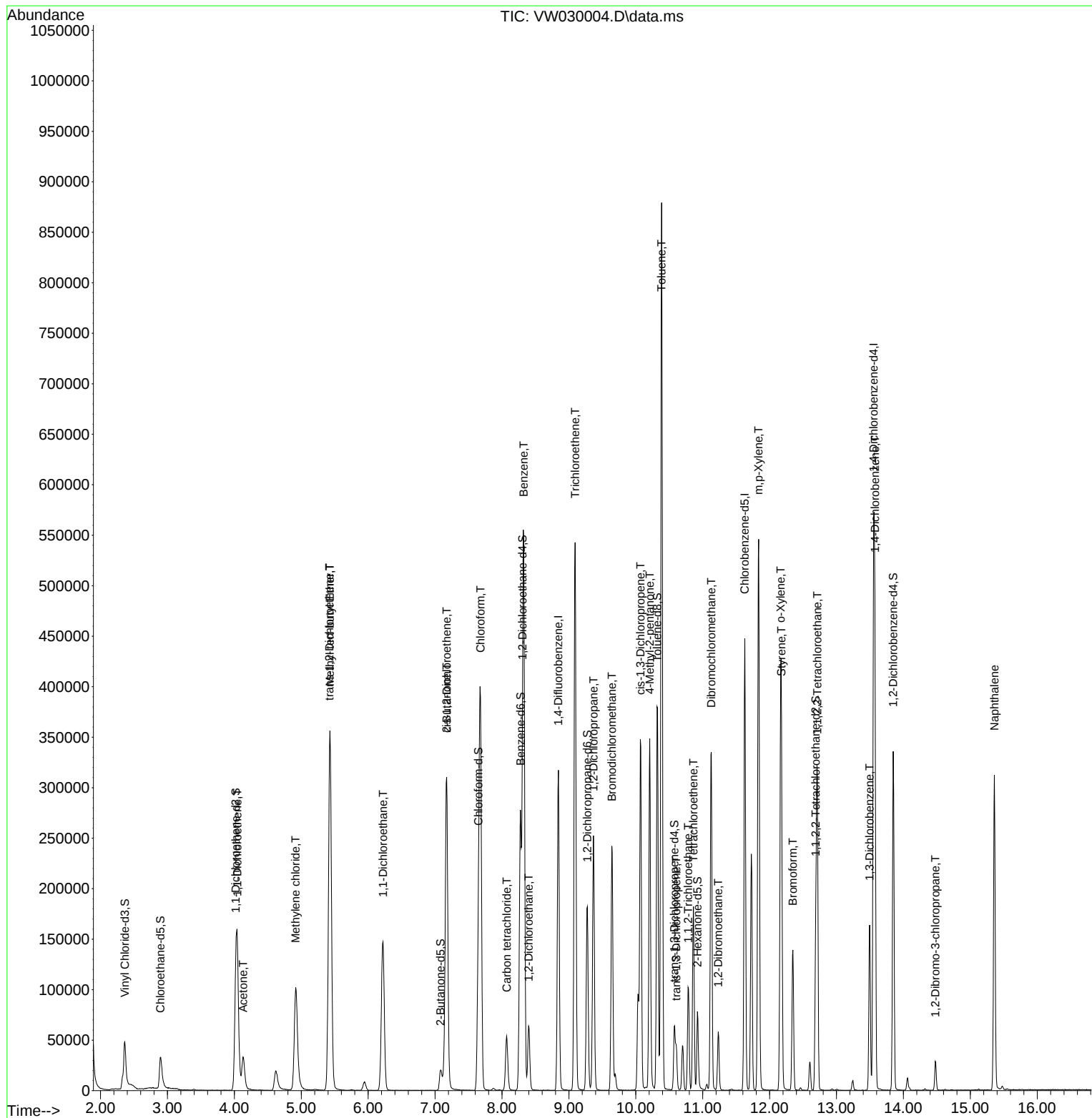
45) 1,1,2-Trichloroethane	10.782	97	32590	10.765	ug/L	98
46) Tetrachloroethene	10.861	164	41069	13.108	ug/L	96
49) Dibromochloromethane	11.129	129	169879	54.054	ug/L	86
50) 1,2-Dibromoethane	11.233	107	38430	13.720	ug/L	93
53) m,p-Xylene	11.837	106	163508	23.481	ug/L	97
54) o-Xylene	12.166	106	74238	11.577	ug/L	97
55) Styrene	12.178	104	129542	11.655	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.715	83	152403	41.016	ug/L #	98
59) Bromoform	12.349	173	63878	34.401	ug/L	98
64) 1,3-Dichlorobenzene	13.495	146	67791	8.321	ug/L	98
65) 1,4-Dichlorobenzene	13.574	146	169894	20.301	ug/L	91
68) 1,2-Dibromo-3-chloropr...	14.476	75	7723	11.333	ug/L	89
71) Naphthalene	15.360	128	255150	28.475	ug/L	99

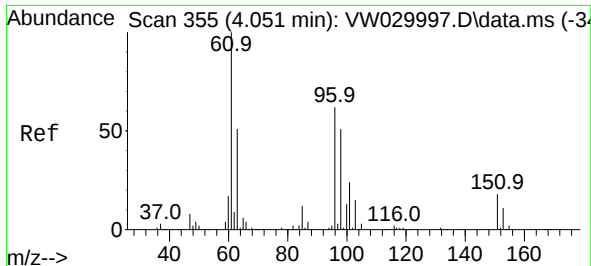
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 19.365 ug/L

RT: 4.045 min Scan# 355

Delta R.T. -0.006 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

ClientSampleId :

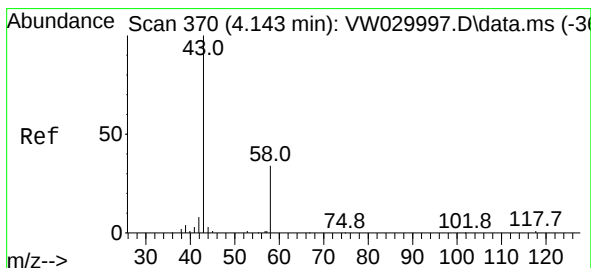
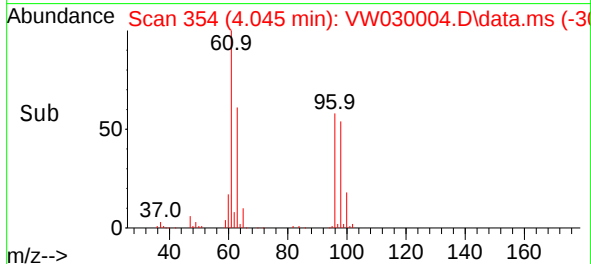
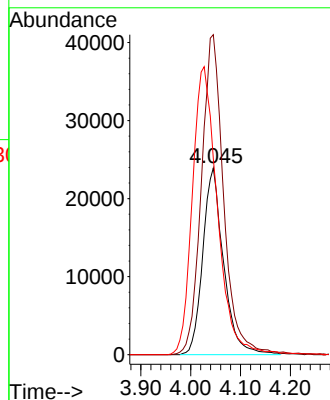
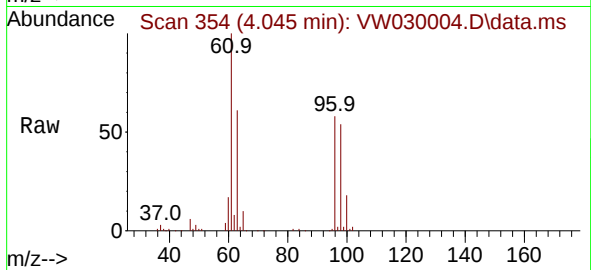
Tgt Ion: 96 Resp: 69304

Ion Ratio Lower Upper

96 100

61 171.3 138.3 256.9

63 104.9 89.0 165.4



#13

Acetone

Concen: 43.017 ug/L

RT: 4.131 min Scan# 368

Delta R.T. -0.012 min

Lab File: VW030004.D

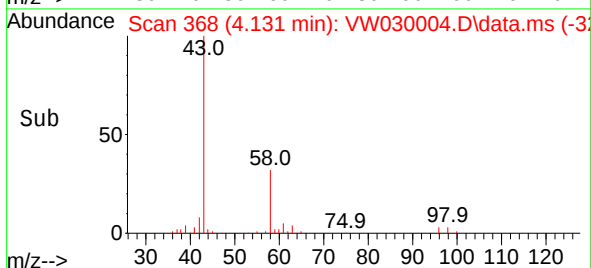
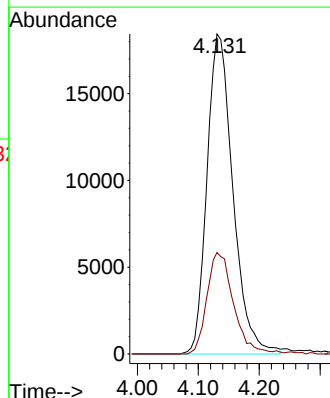
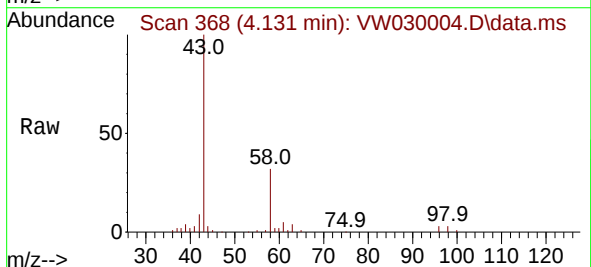
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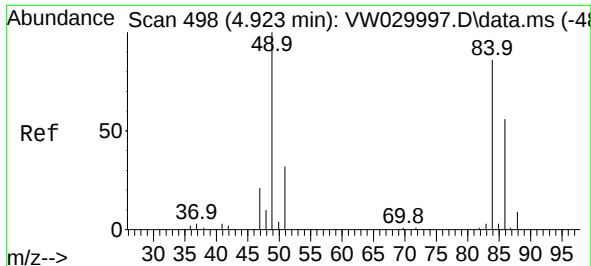
Tgt Ion: 43 Resp: 54495

Ion Ratio Lower Upper

43 100

58 32.2 0.0 57.6

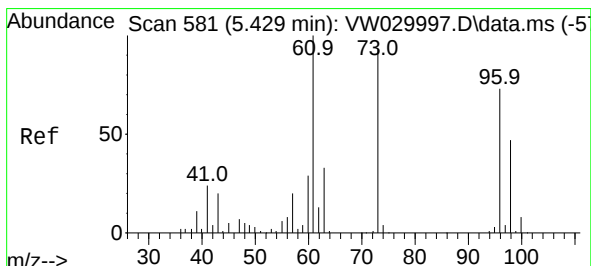
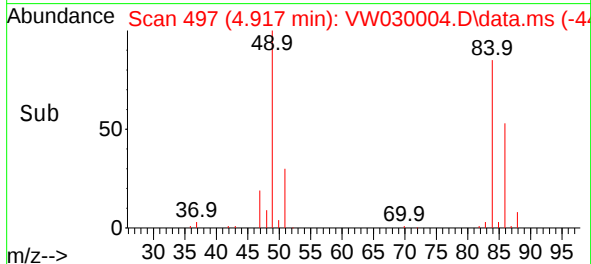
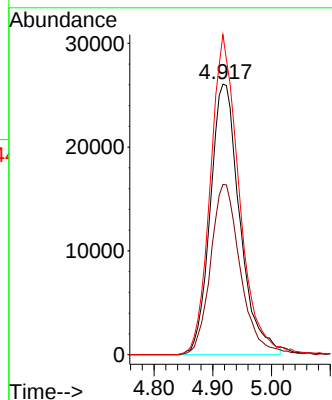
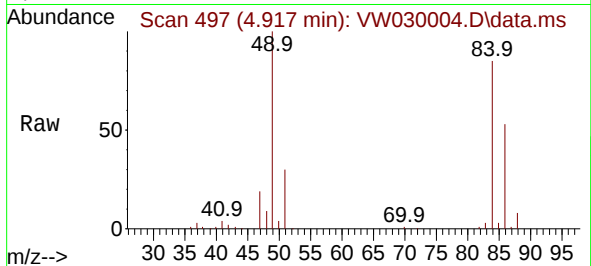




#16
Methylene chloride
Concen: 16.622 ug/L
RT: 4.917 min Scan# 497
Delta R.T. -0.006 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

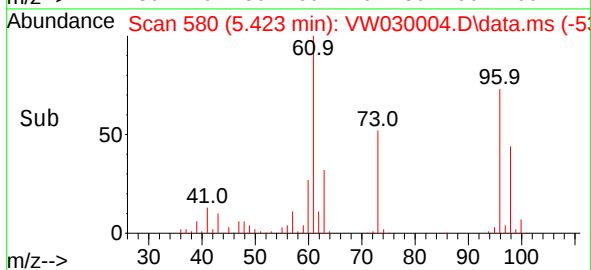
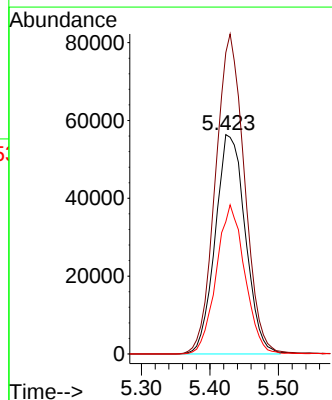
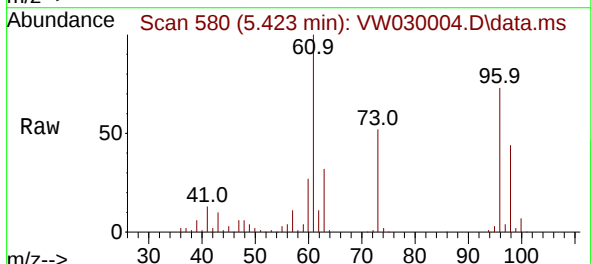
Instrument :
MSVOA_W
ClientSampleId :

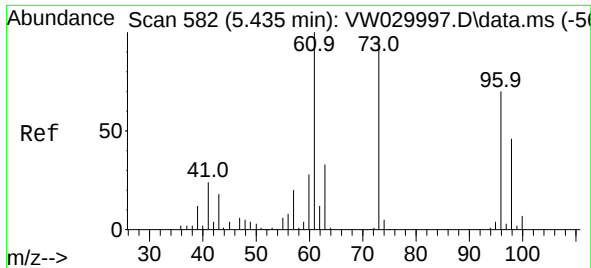
Tgt Ion: 84 Resp: 91035
Ion Ratio Lower Upper
84 100
86 62.9 44.7 82.9
49 118.3 99.0 184.0



#17
trans-1,2-Dichloroethene
Concen: 44.446 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

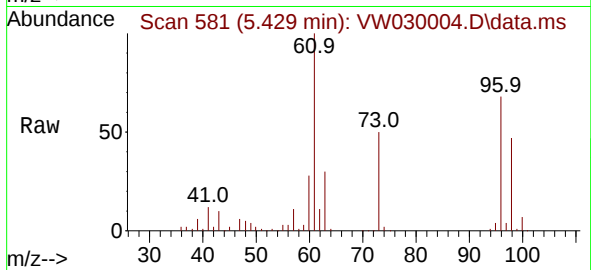
Tgt Ion: 96 Resp: 171415
Ion Ratio Lower Upper
96 100
61 137.3 111.2 206.6
98 60.3 45.0 83.6



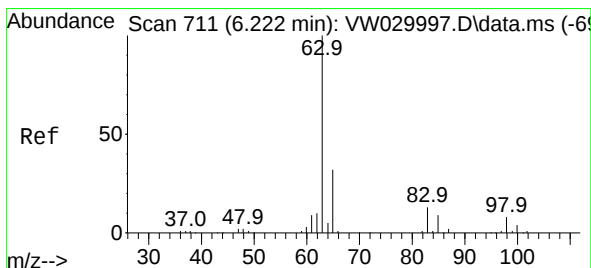
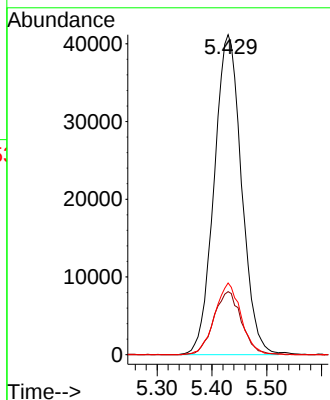
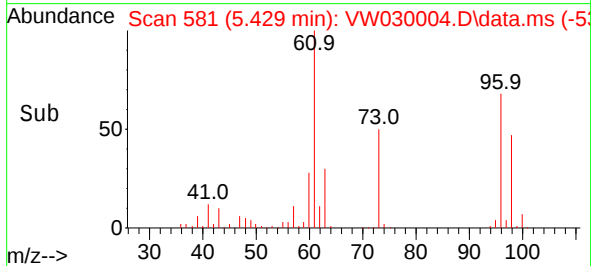


#18
Methyl tert-butyl Ether
Concen: 22.492 ug/L
RT: 5.429 min Scan# 582
Delta R.T. -0.006 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

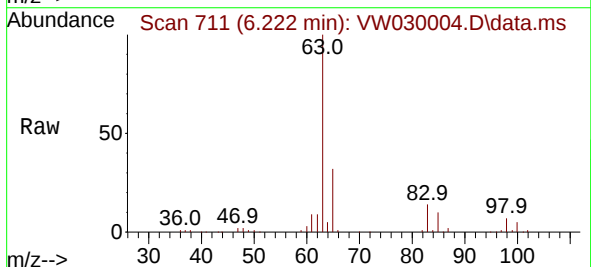
Instrument :
MSVOA_W
ClientSampleId :



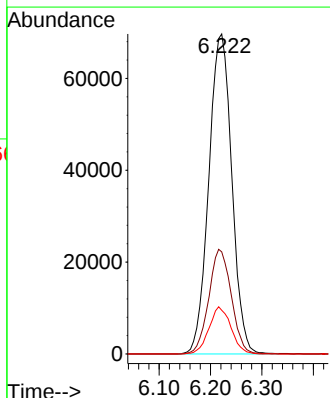
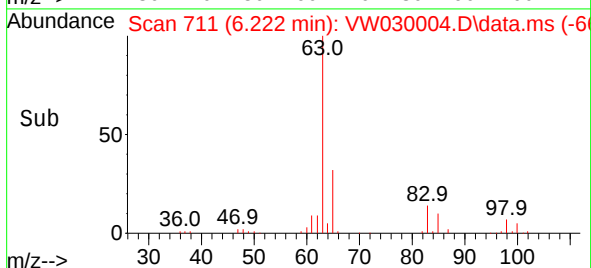
Tgt Ion: 73 Resp: 142969
Ion Ratio Lower Upper
73 100
43 20.0 18.3 27.5
57 21.6 17.9 26.9

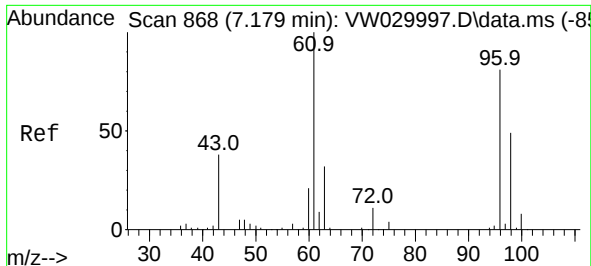


#19
1,1-Dichloroethane
Concen: 26.627 ug/L
RT: 6.222 min Scan# 711
Delta R.T. 0.000 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43



Tgt Ion: 63 Resp: 216582
Ion Ratio Lower Upper
63 100
65 31.9 22.3 41.3
83 13.6 8.5 15.7





#20

cis-1,2-Dichloroethene

Concen: 41.552 ug/L

RT: 7.173 min Scan# 867

Delta R.T. -0.006 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

ClientSampleId :

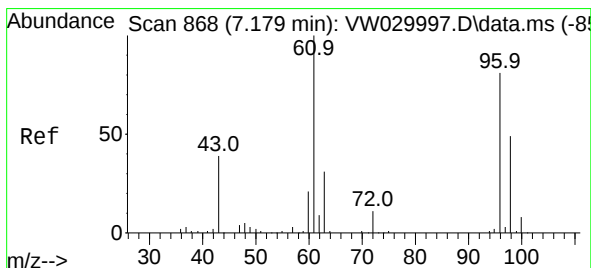
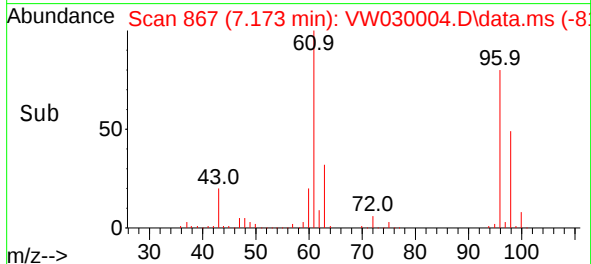
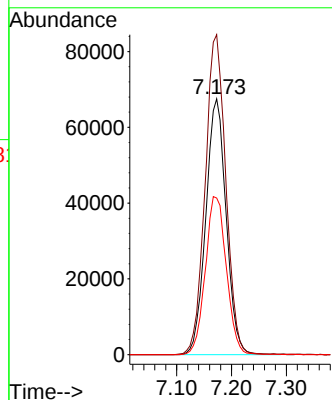
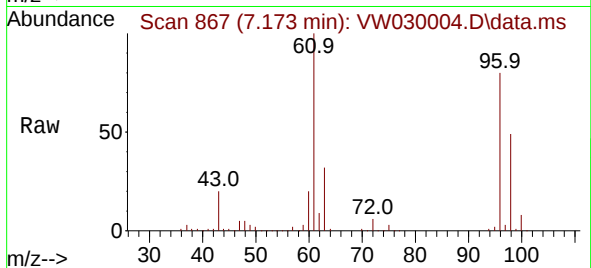
Tgt Ion: 96 Resp: 173829

Ion Ratio Lower Upper

96 100

61 125.1 98.2 182.4

98 61.2 41.9 77.9



#22

2-Butanone

Concen: 28.834 ug/L

RT: 7.173 min Scan# 867

Delta R.T. -0.006 min

Lab File: VW030004.D

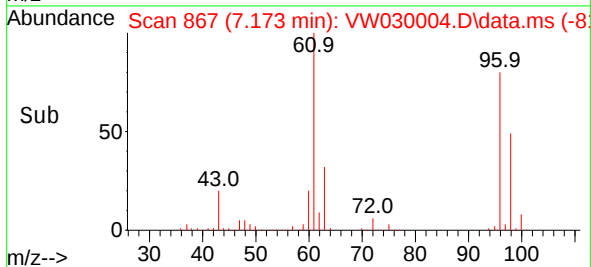
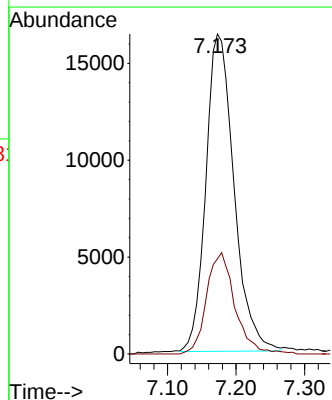
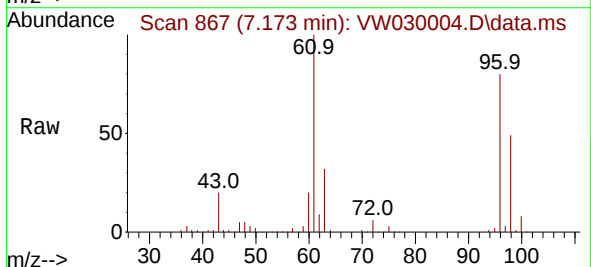
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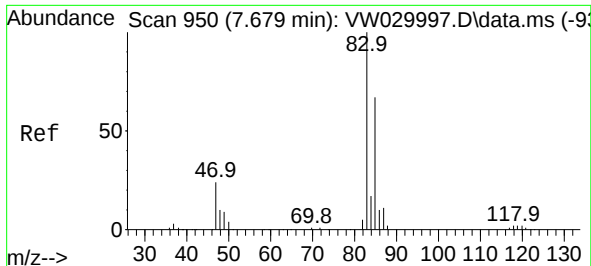
Tgt Ion: 43 Resp: 46802

Ion Ratio Lower Upper

43 100

72 31.5 11.7 35.1





#25

Chloroform

Concen: 47.169 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.000 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

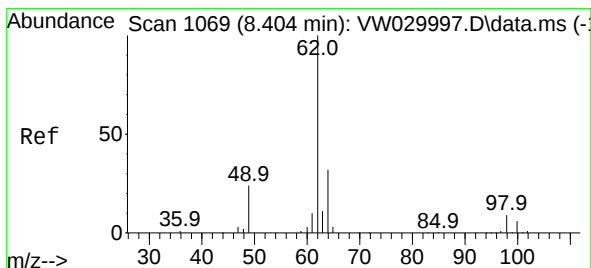
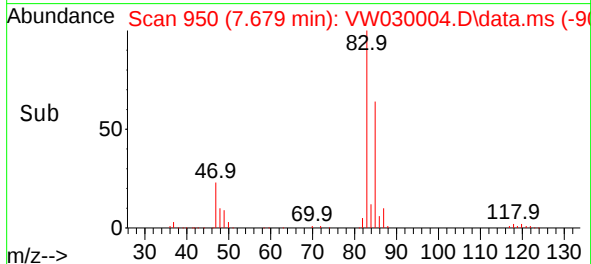
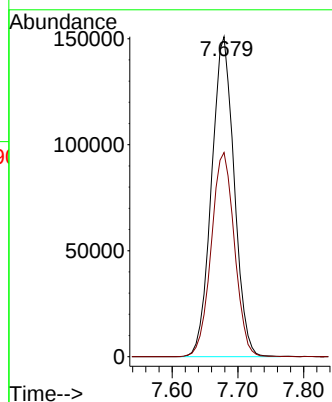
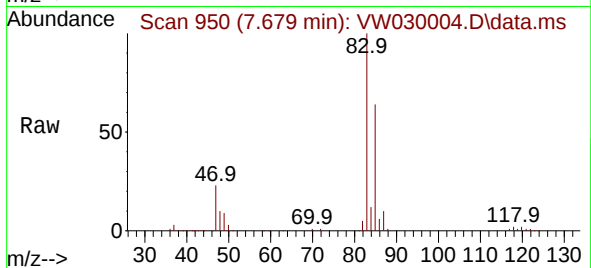
ClientSampleId :

Tgt Ion: 83 Resp: 361481

Ion Ratio Lower Upper

83 100

85 63.8 44.4 82.4



#27

1,2-Dichloroethane

Concen: 10.802 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VW030004.D

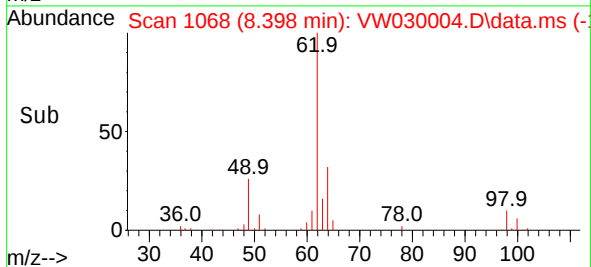
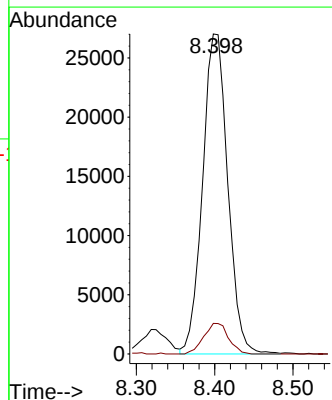
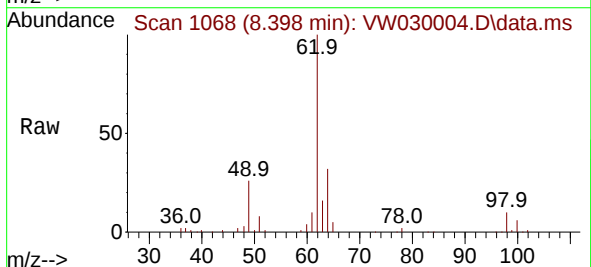
Acq: 23 Aug 2024 12:43

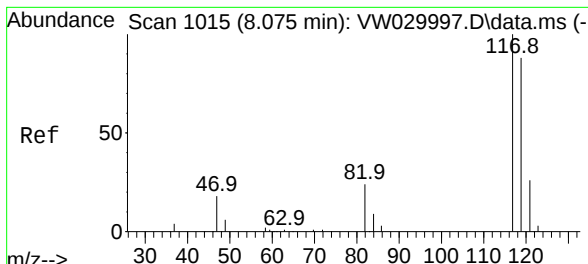
Tgt Ion: 62 Resp: 60329

Ion Ratio Lower Upper

62 100

98 9.5 6.6 10.0

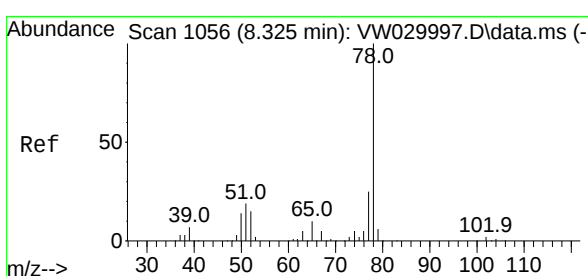
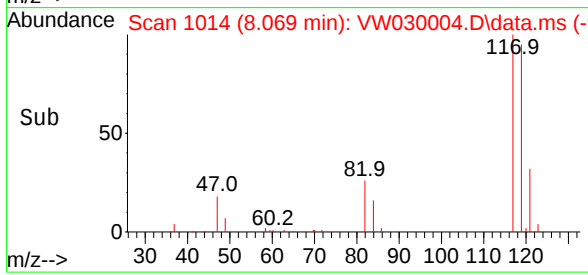
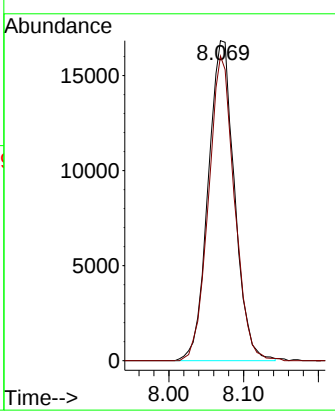
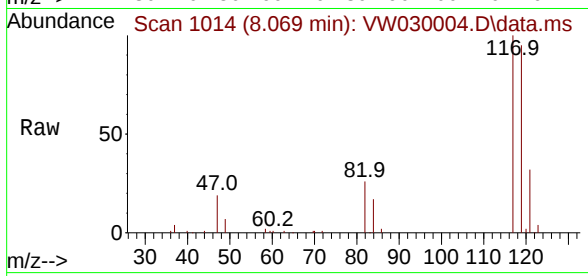




#31
Carbon tetrachloride
Concen: 7.531 ug/L
RT: 8.069 min Scan# 1014
Delta R.T. -0.006 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

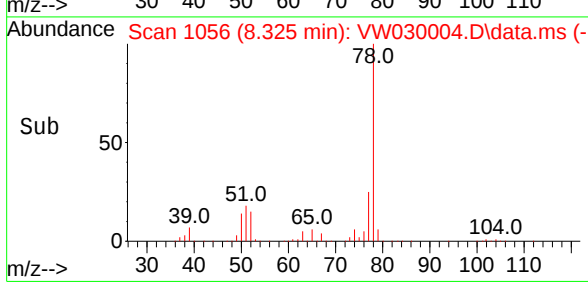
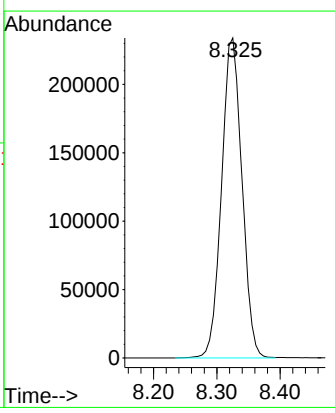
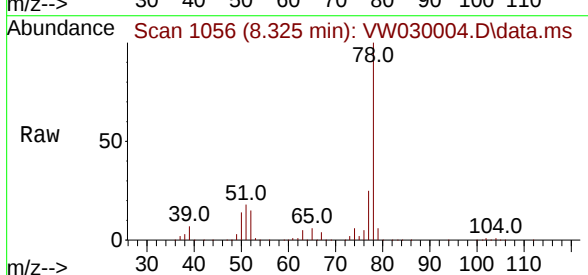
Instrument :
MSVOA_W
ClientSampleId :

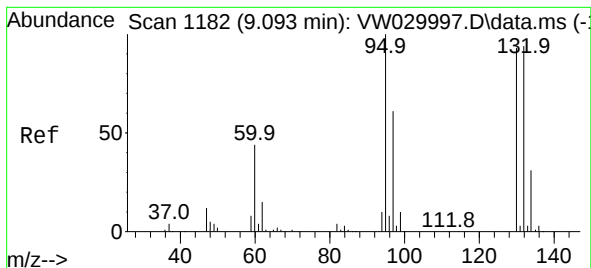
Tgt Ion:117 Resp: 41244
Ion Ratio Lower Upper
117 100
119 93.6 74.8 112.2



#33
Benzene
Concen: 31.813 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

Tgt Ion: 78 Resp: 523134





#34

Trichloroethene

Concen: 46.433 ug/L

RT: 9.093 min Scan# 1182

Delta R.T. 0.000 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 200163

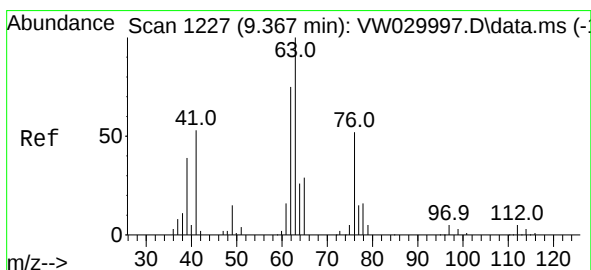
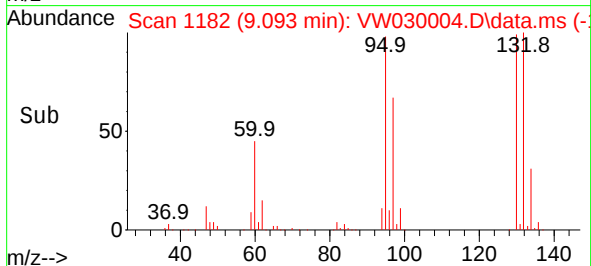
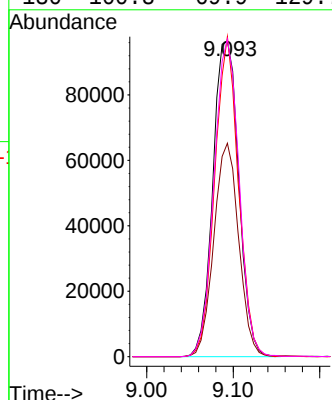
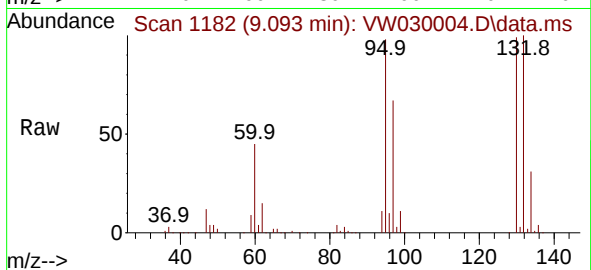
Ion Ratio Lower Upper

95 100

97 67.7 45.6 84.8

132 101.5 65.2 121.0

130 100.8 69.9 129.7



#37

1,2-Dichloropropane

Concen: 20.778 ug/L

RT: 9.368 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW030004.D

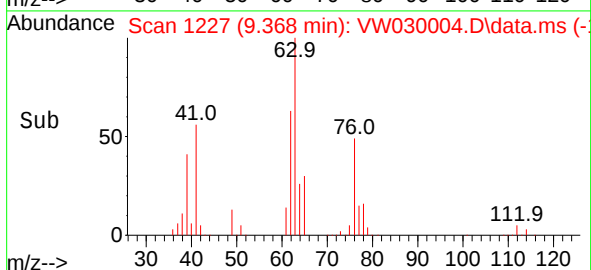
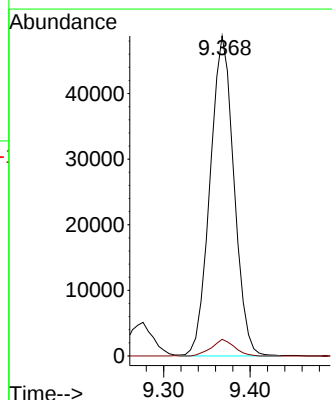
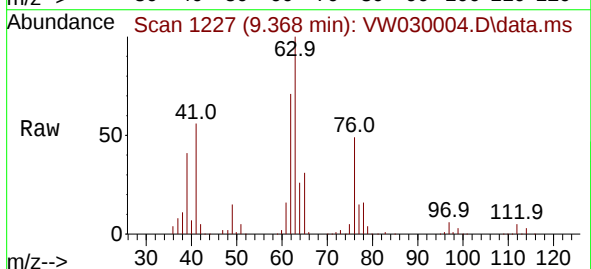
Acq: 23 Aug 2024 12:43

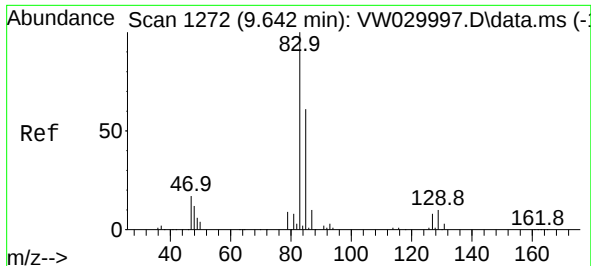
Tgt Ion: 63 Resp: 93633

Ion Ratio Lower Upper

63 100

112 4.9 3.3 4.9





#38

Bromodichloromethane

Concen: 31.149 ug/L

RT: 9.642 min Scan# 11

Delta R.T. 0.000 min

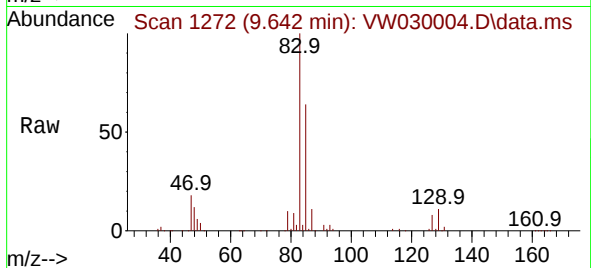
Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

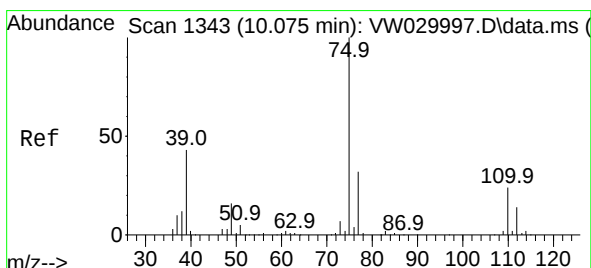
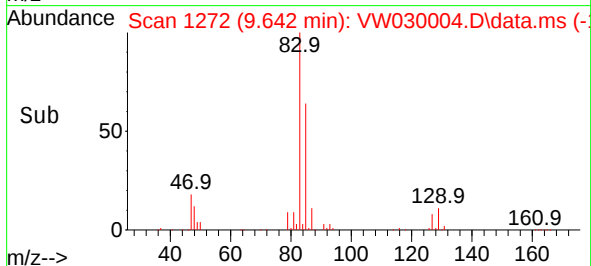
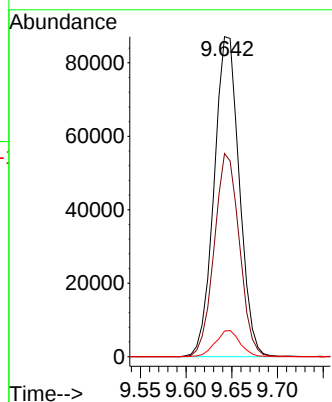
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	83	Resp:	167151
Ion	Ratio	Lower	Upper
83	100		
85	63.5	46.6	86.6
127	8.0	5.9	8.9



#39

cis-1,3-Dichloropropene

Concen: 32.091 ug/L

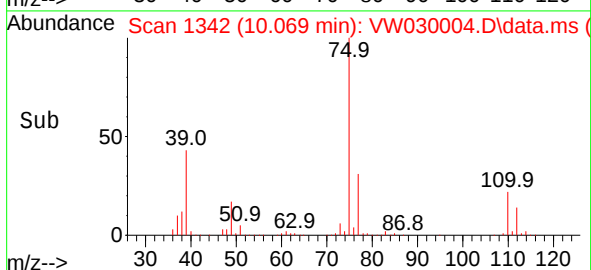
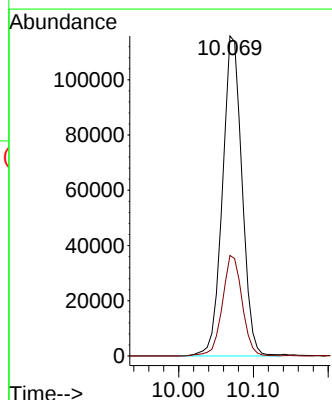
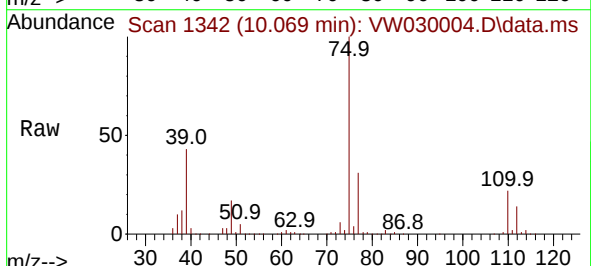
RT: 10.069 min Scan# 1342

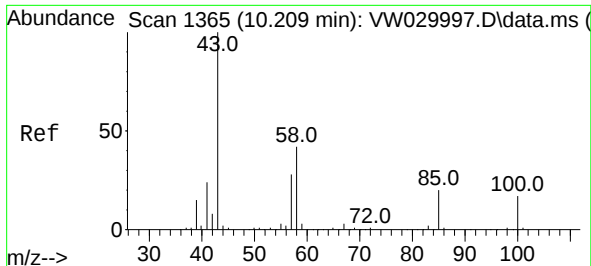
Delta R.T. -0.006 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Tgt Ion:	75	Resp:	210602
Ion	Ratio	Lower	Upper
75	100		
77	31.4	20.8	38.6





#40

4-Methyl-2-pentanone

Concen: 74.605 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

ClientSampleId :

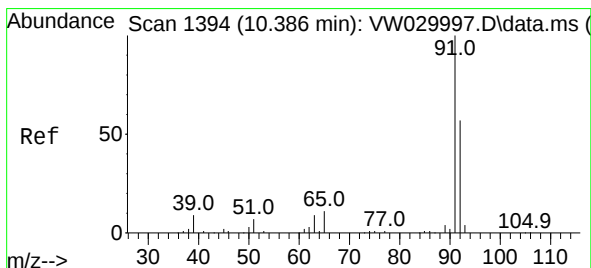
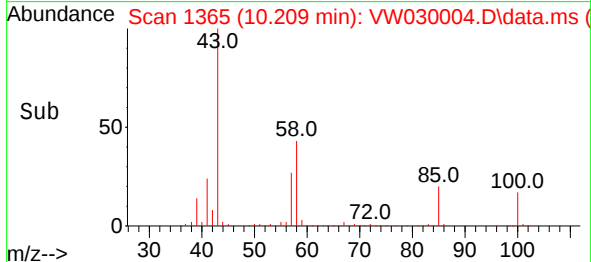
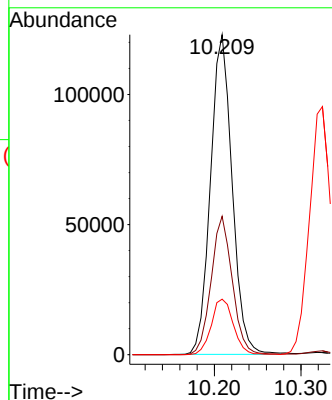
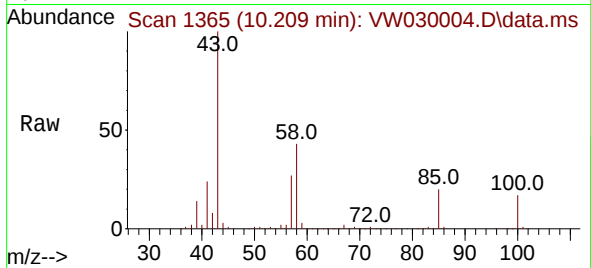
Tgt Ion: 43 Resp: 213544

Ion Ratio Lower Upper

43 100

58 42.4 28.7 43.1

100 17.7 10.0 15.0#



#42

Toluene

Concen: 38.623 ug/L

RT: 10.386 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VW030004.D

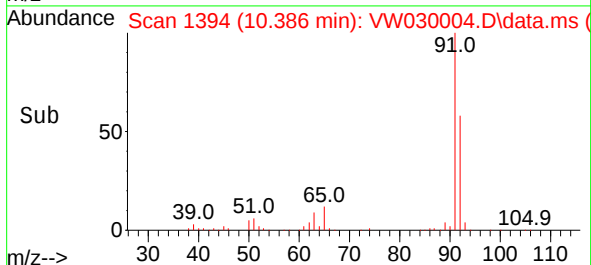
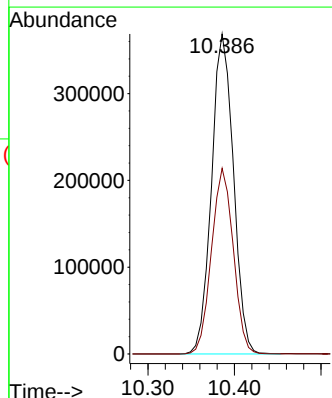
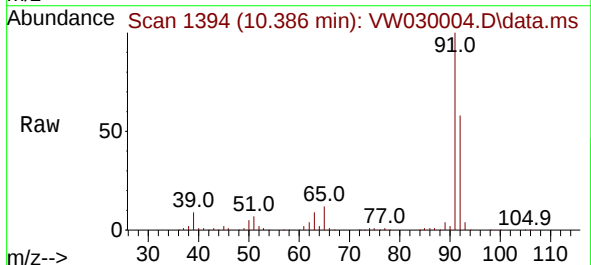
Acq: 23 Aug 2024 12:43

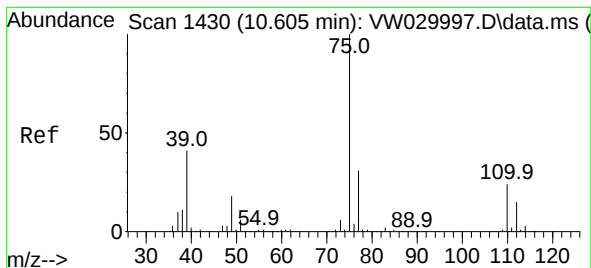
Tgt Ion: 91 Resp: 648283

Ion Ratio Lower Upper

91 100

92 58.0 39.5 73.4





#44

trans-1,3-Dichloropropene

Concen: 4.600 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

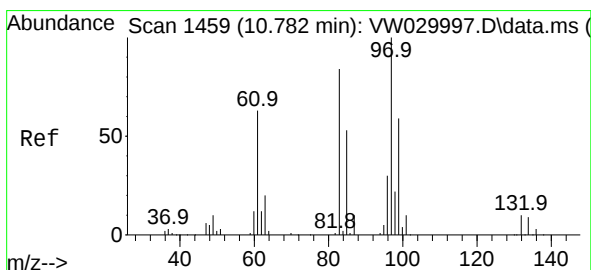
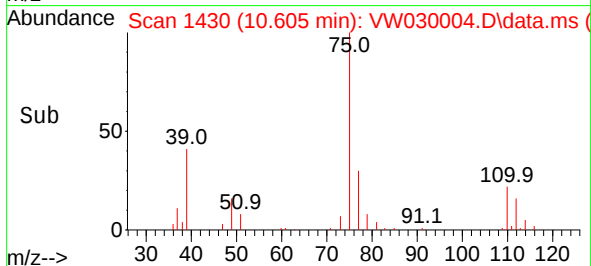
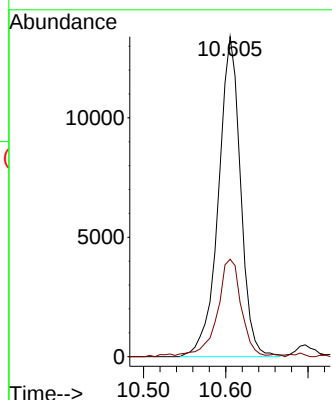
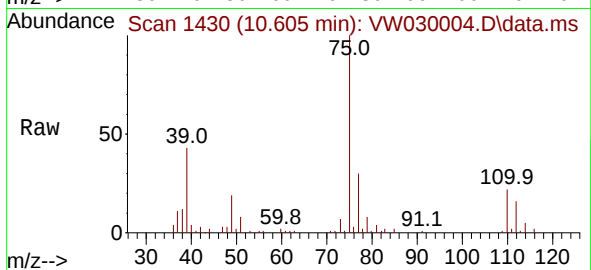
ClientSampleId :

Tgt Ion: 75 Resp: 25063

Ion Ratio Lower Upper

75 100

77 30.4 22.0 41.0



#45

1,1,2-Trichloroethane

Concen: 10.765 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. 0.000 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Tgt Ion: 97 Resp: 32590

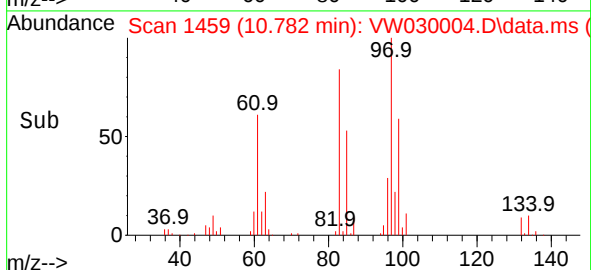
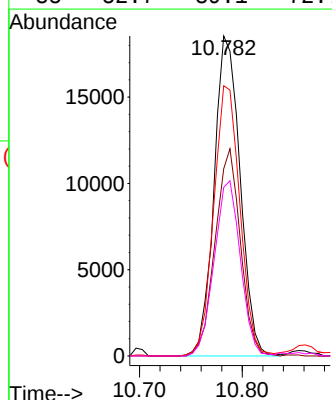
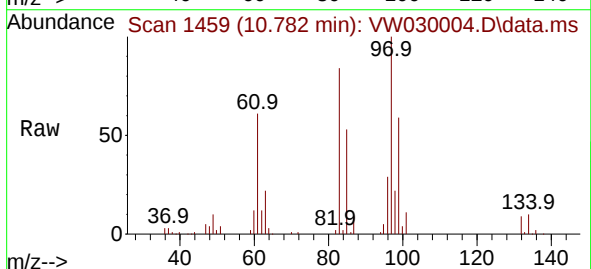
Ion Ratio Lower Upper

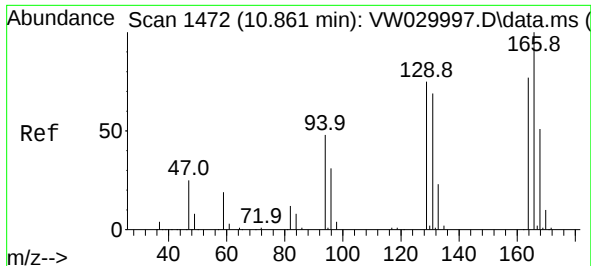
97 100

99 58.5 40.1 74.5

83 84.5 58.5 108.7

85 52.7 39.1 72.7





#46

Tetrachloroethene

Concen: 13.108 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. 0.000 min

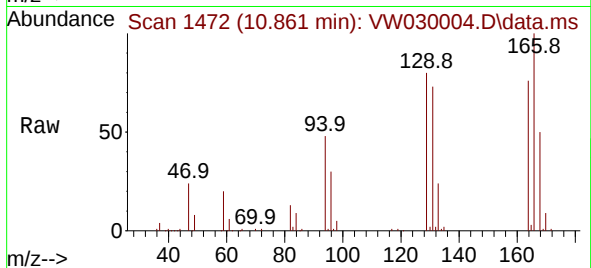
Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:164 Resp: 41069

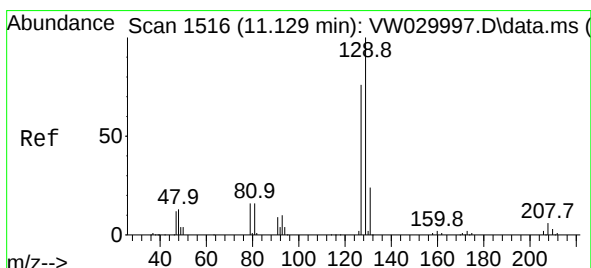
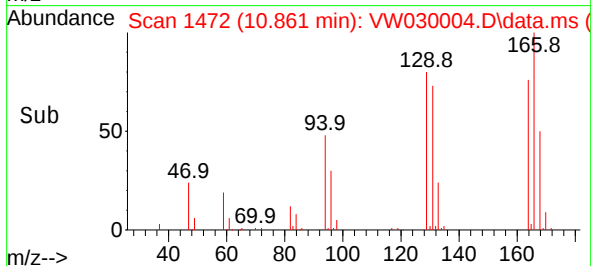
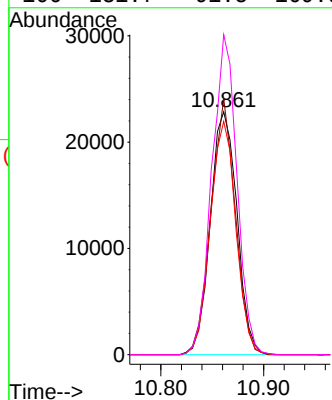
Ion Ratio Lower Upper

164 100

129 105.5 77.8 144.6

131 96.0 70.9 131.7

166 131.7 91.5 169.9



#49

Dibromochloromethane

Concen: 54.054 ug/L

RT: 11.129 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VW030004.D

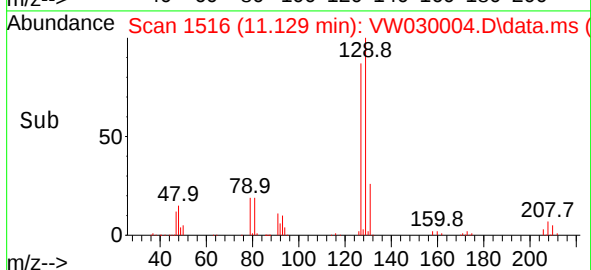
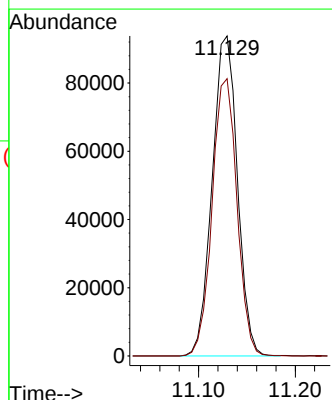
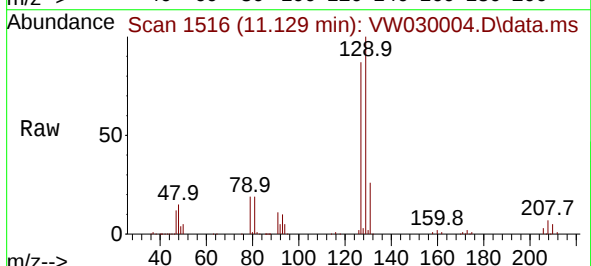
Acq: 23 Aug 2024 12:43

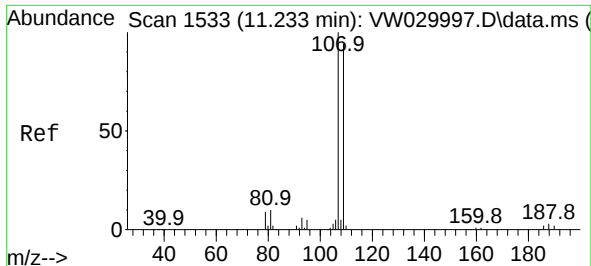
Tgt Ion:129 Resp: 169879

Ion Ratio Lower Upper

129 100

127 86.7 52.4 97.2





#50

1,2-Dibromoethane

Concen: 13.720 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW030004.D

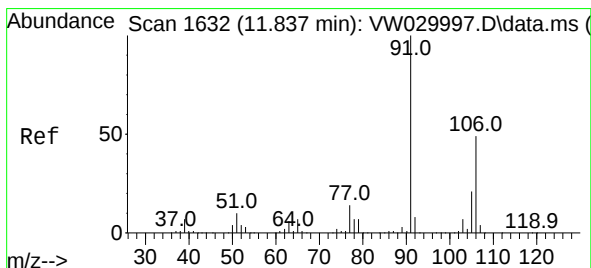
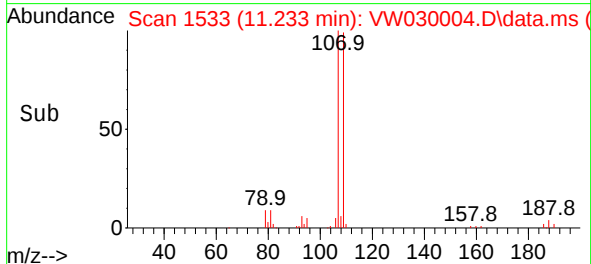
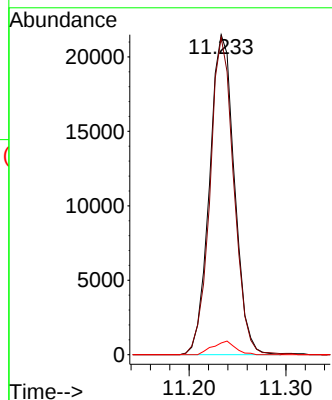
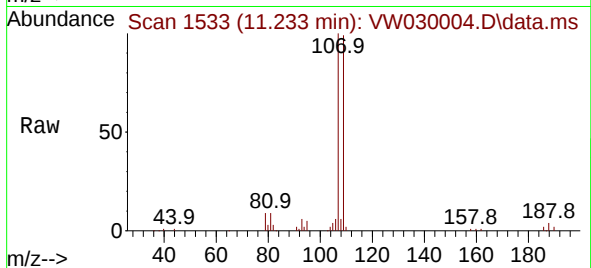
Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	107	Resp:	38430
Ion Ratio	Lower	Upper	
107	100		
109	99.1	64.8	120.3
188	3.6	2.7	4.1



#53

m,p-Xylene

Concen: 23.481 ug/L

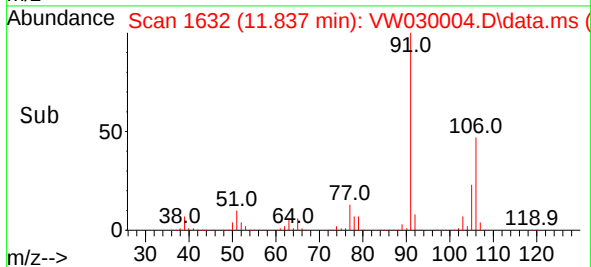
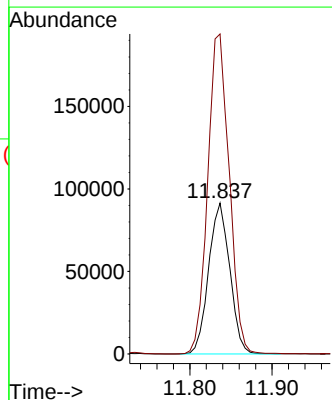
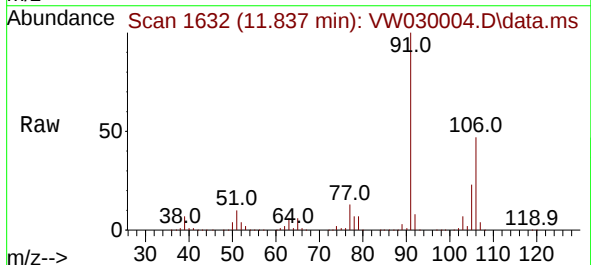
RT: 11.837 min Scan# 1632

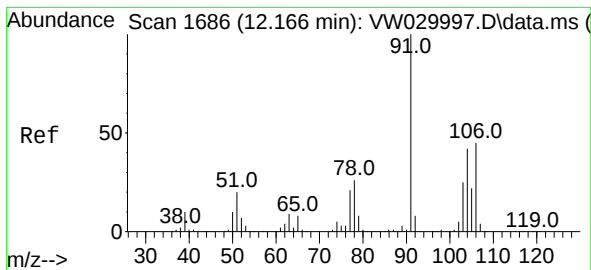
Delta R.T. 0.000 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Tgt Ion:	106	Resp:	163508
Ion Ratio	Lower	Upper	
106	100		
91	212.0	151.4	281.2

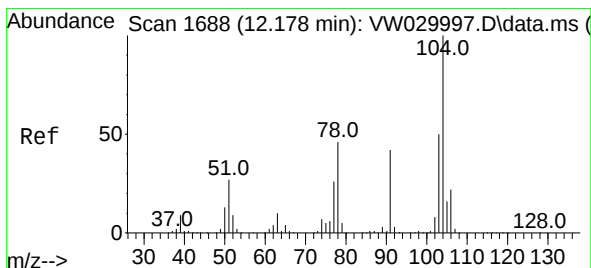
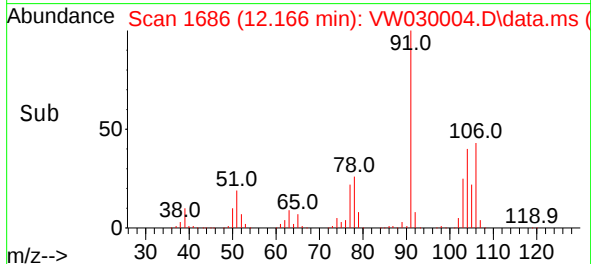
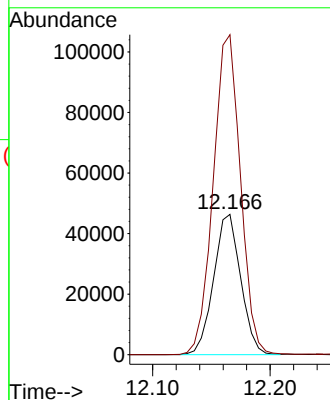
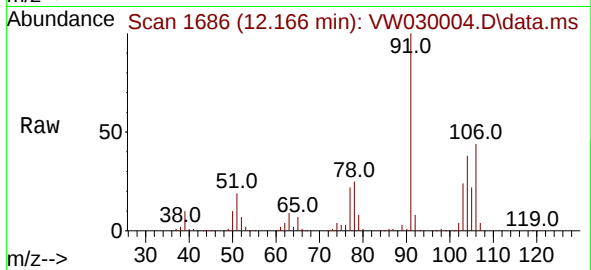




#54
o-Xylene
Concen: 11.577 ug/L
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

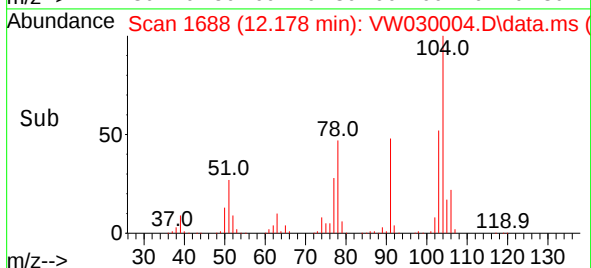
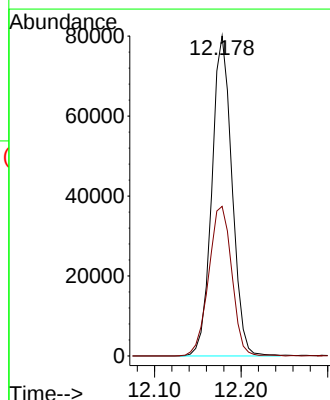
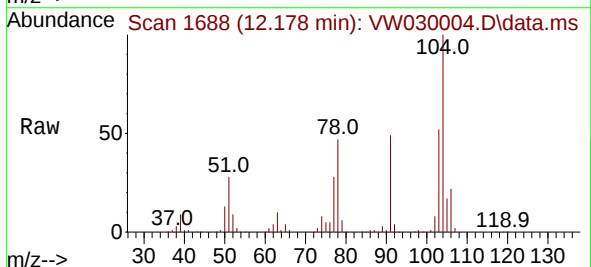
Instrument :
MSVOA_W
ClientSampleId :

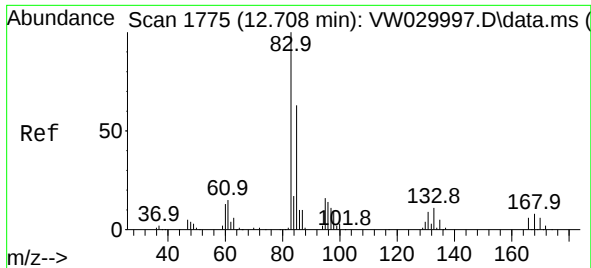
Tgt Ion:106 Resp: 74238
Ion Ratio Lower Upper
106 100
91 228.0 155.8 289.4



#55
Styrene
Concen: 11.655 ug/L
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

Tgt Ion:104 Resp: 129542
Ion Ratio Lower Upper
104 100
78 46.8 33.3 61.9

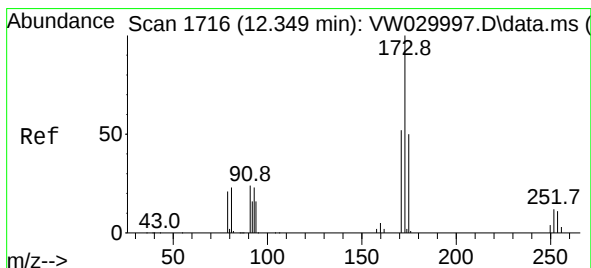
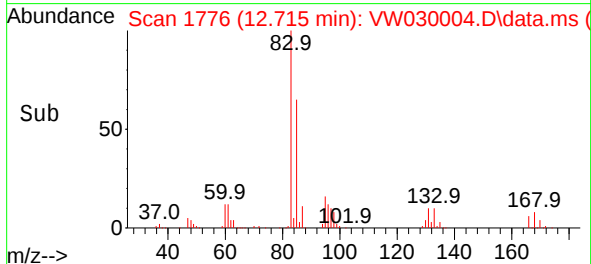
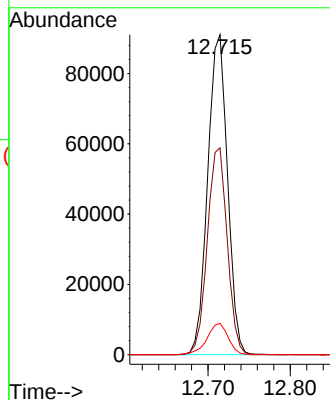
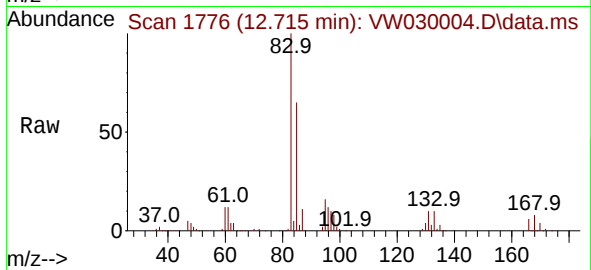




#57
1,1,2,2-Tetrachloroethane
Concen: 41.016 ug/L
RT: 12.715 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

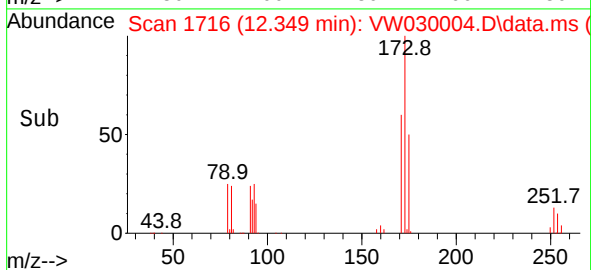
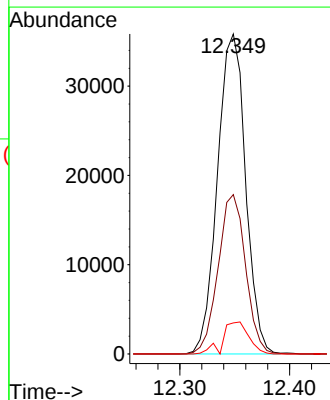
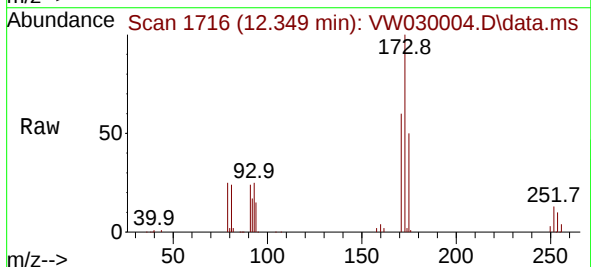
Instrument :
MSVOA_W
ClientSampleId :

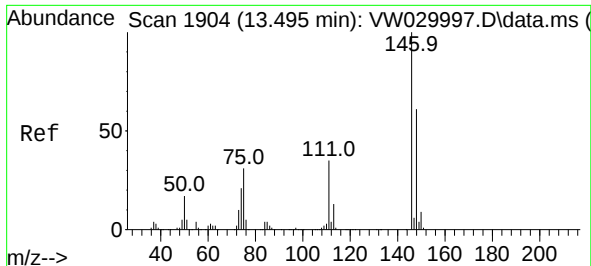
Tgt Ion: 83 Resp: 152403
Ion Ratio Lower Upper
83 100
85 64.7 44.2 82.0
131 9.8 6.2 9.2#



#59
Bromoform
Concen: 34.401 ug/L
RT: 12.349 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

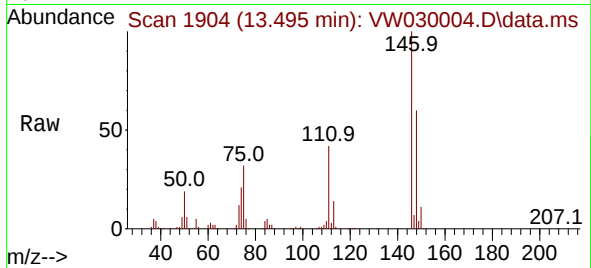
Tgt Ion:173 Resp: 63878
Ion Ratio Lower Upper
173 100
175 48.6 38.1 57.1
254 8.2 7.8 11.6



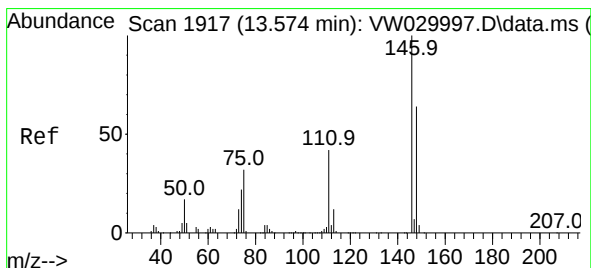
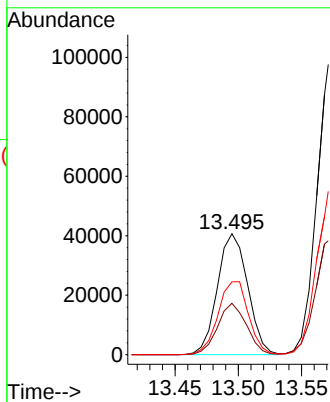
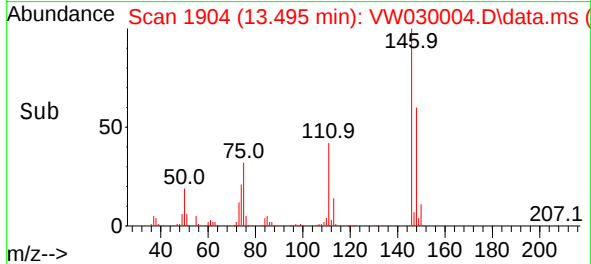


#64
1,3-Dichlorobenzene
Concen: 8.321 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43

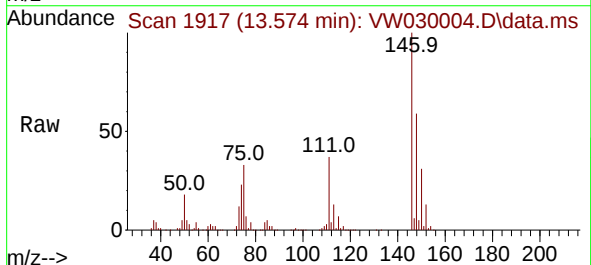
Instrument :
MSVOA_W
ClientSampleId :



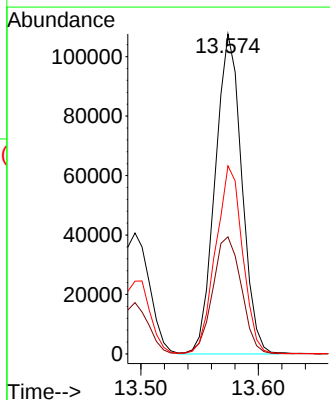
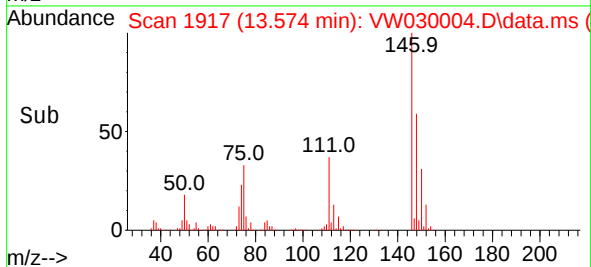
Tgt Ion:146 Resp: 67791
Ion Ratio Lower Upper
146 100
111 42.5 28.7 53.3
148 60.2 43.4 80.6

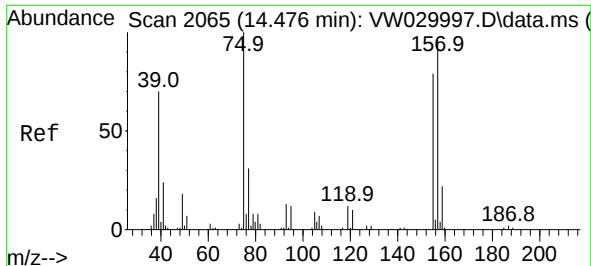


#65
1,4-Dichlorobenzene
Concen: 20.301 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW030004.D
Acq: 23 Aug 2024 12:43



Tgt Ion:146 Resp: 169894
Ion Ratio Lower Upper
146 100
111 36.6 30.1 55.9
148 58.8 45.4 84.4





#68

1,2-Dibromo-3-chloropropane

Concen: 11.333 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. 0.000 min

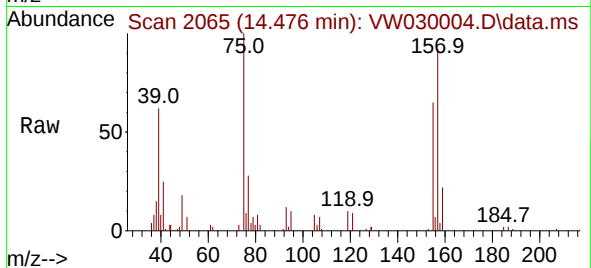
Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Instrument :

MSVOA_W

ClientSampleId :



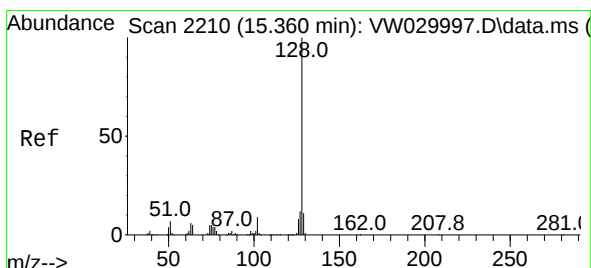
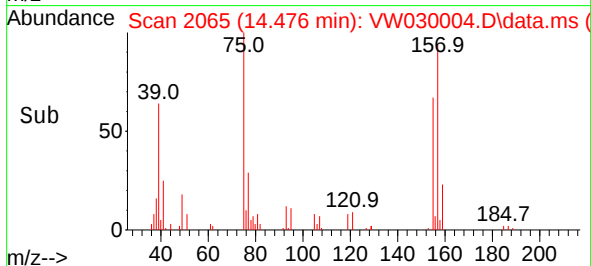
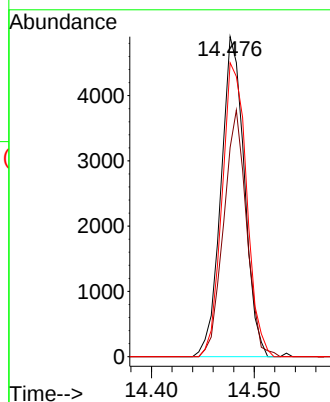
Tgt Ion: 75 Resp: 7723

Ion Ratio Lower Upper

75 100

155 65.3 47.8 71.6

157 91.9 63.7 95.5



#71

Naphthalene

Concen: 28.475 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VW030004.D

Acq: 23 Aug 2024 12:43

Tgt Ion:128 Resp: 255150

Ion Ratio Lower Upper

128 100

127 12.9 10.7 16.1

129 10.6 8.9 13.3

