

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082324\
 Data File : VW029999.D
 Acq On : 23 Aug 2024 10:39
 Operator : SY/MD
 Sample : P3696-05
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 24 05:01:10 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	285863	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	264280	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	131734	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.357	65	58130	14.324	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	57.280%
7) Chloroethane-d5	2.899	69	51477	17.767	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	71.080%
11) 1,1-Dichloroethene-d2	4.021	65	29527	15.939	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	63.760%
21) 2-Butanone-d5	7.081	46	31724	28.521	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	57.040%
24) Chloroform-d	7.648	84	181675	24.551	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.200%
26) 1,2-Dichloroethane-d4	8.307	65	80228	19.034	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	76.120%
32) Benzene-d6	8.276	84	271448	19.010	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	76.040%
36) 1,2-Dichloropropane-d6	9.270	67	85181	18.682	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	74.720%
41) Toluene-d8	10.319	98	251560	19.813	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	79.240%
43) trans-1,3-Dichloroprop...	10.575	79	34067	18.464	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	73.840%
47) 2-Hexanone-d5	10.922	63	23654	31.462	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	62.920%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	74484	22.001	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	88.000%
66) 1,2-Dichlorobenzene-d4	13.848	152	82912	20.270	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	81.080%
Target Compounds						
					Qvalue	
13) Acetone	4.137	43	110590	80.002	ug/L	92
16) Methylene chloride	4.917	84	175651	29.392	ug/L	82
17) trans-1,2-Dichloroethene	5.423	96	373691	88.797	ug/L	85
18) Methyl tert-butyl Ether	5.429	73	301908	43.528	ug/L	96
19) 1,1-Dichloroethane	6.216	63	458439	51.651	ug/L	98
20) cis-1,2-Dichloroethene	7.167	96	368748	80.778	ug/L	89
22) 2-Butanone	7.173	43	97211	54.884	ug/L	81
25) Chloroform	7.673	83	752270	89.959	ug/L	98
27) 1,2-Dichloroethane	8.398	62	124250	20.388	ug/L	98
30) 1,1,1-Trichloroethane	7.868	97	3247	0.485	ug/L #	81
31) Carbon tetrachloride	8.069	117	88106	14.610	ug/L	98
33) Benzene	8.325	78	1090940	60.247	ug/L	100
34) Trichloroethene	9.087	95	432246	91.058	ug/L	93
37) 1,2-Dichloropropane	9.367	63	194379	39.172	ug/L	98
38) Bromodichloromethane	9.642	83	350859	59.376	ug/L	94
39) cis-1,3-Dichloropropene	10.069	75	450410	62.326	ug/L	96
40) 4-Methyl-2-pentanone	10.209	43	432204	137.124	ug/L #	88
42) Toluene	10.386	91	1343587	72.692	ug/L	97
44) trans-1,3-Dichloropropene	10.605	75	49391	8.233	ug/L	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082324\
 Data File : VW029999.D
 Acq On : 23 Aug 2024 10:39
 Operator : SY/MD
 Sample : P3696-05
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 24 05:01:10 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)

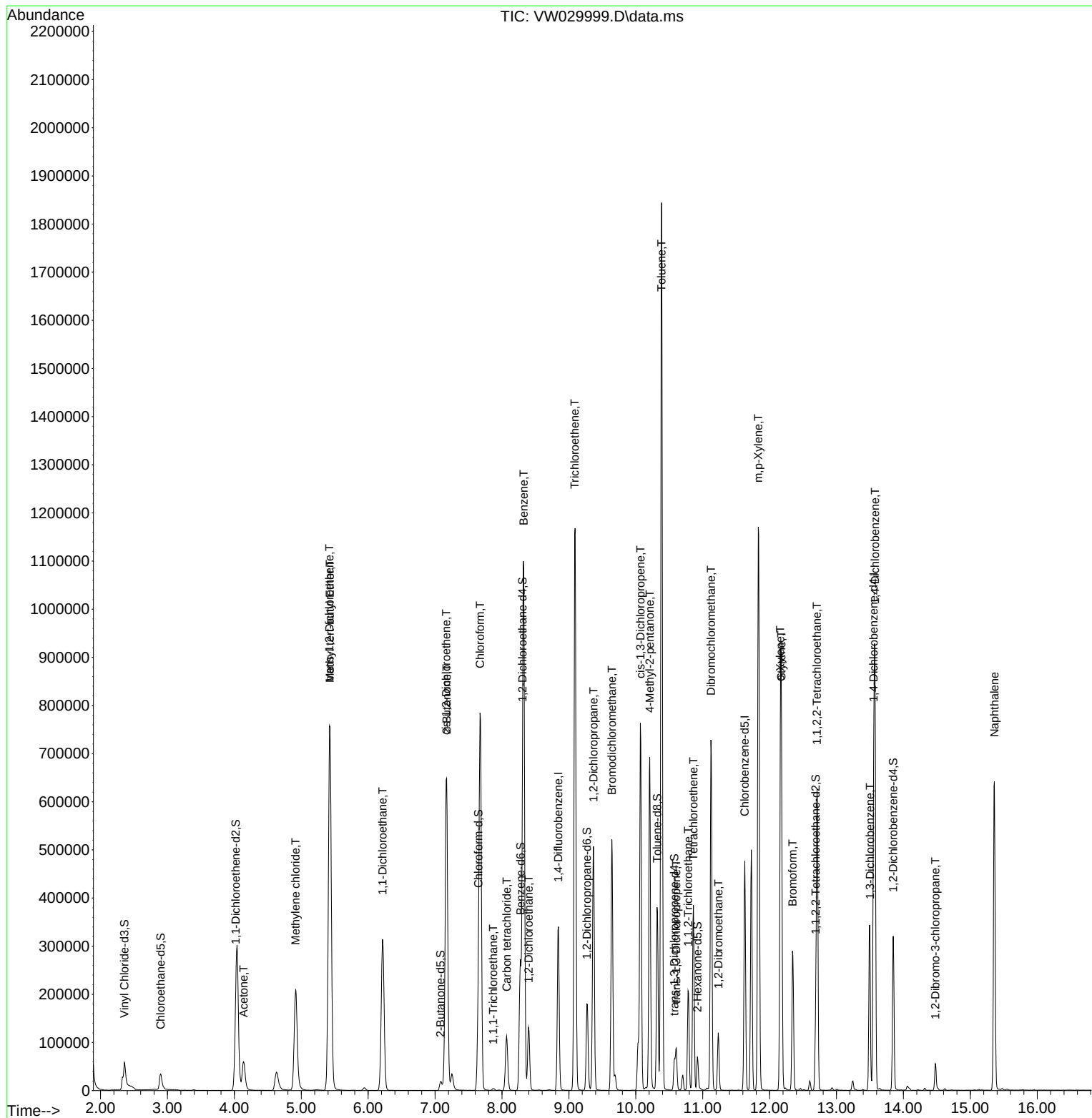
45) 1,1,2-Trichloroethane	10.782	97	66107	19.830	ug/L	98
46) Tetrachloroethene	10.861	164	85178	24.688	ug/L	91
49) Dibromochloromethane	11.123	129	377136	108.976	ug/L	99
50) 1,2-Dibromoethane	11.233	107	78730	25.524	ug/L	94
53) m,p-Xylene	11.830	106	360395	47.001	ug/L	92
54) o-Xylene	12.160	106	165547	23.445	ug/L	99
55) Styrene	12.178	104	274090	22.394	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.708	83	304366	74.387	ug/L #	95
59) Bromoform	12.343	173	134243	67.724	ug/L	99
64) 1,3-Dichlorobenzene	13.501	146	138022	15.870	ug/L	94
65) 1,4-Dichlorobenzene	13.574	146	335341	37.536	ug/L	95
68) 1,2-Dibromo-3-chloropr...	14.476	75	14975	20.585	ug/L #	85
71) Naphthalene	15.360	128	531574	55.572	ug/L	100

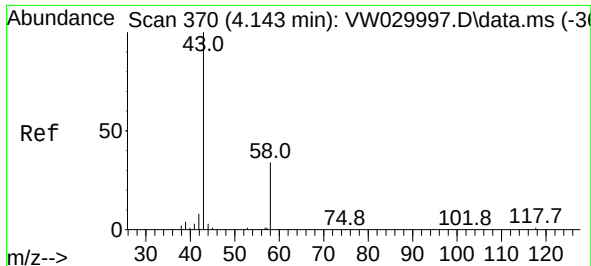
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082324\
Data File : VW029999.D
Acq On : 23 Aug 2024 10:39
Operator : SY/MD
Sample : P3696-05
Misc : 5.00g/10mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Aug 24 05:01:10 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

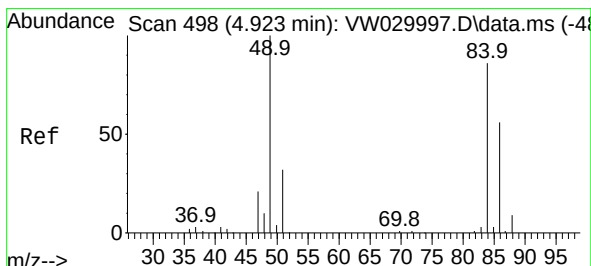
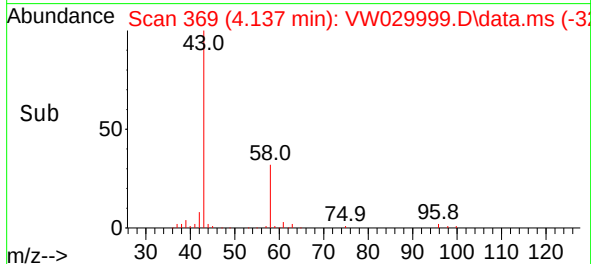
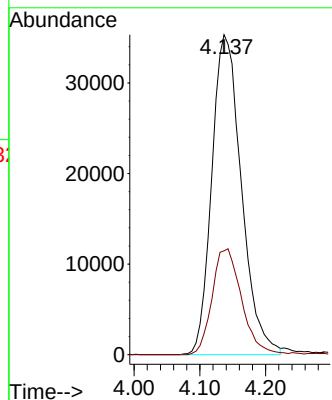
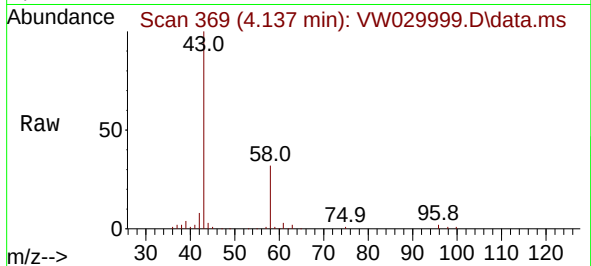




#13
Acetone
Concen: 80.002 ug/L
RT: 4.137 min Scan# 370
Delta R.T. -0.006 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

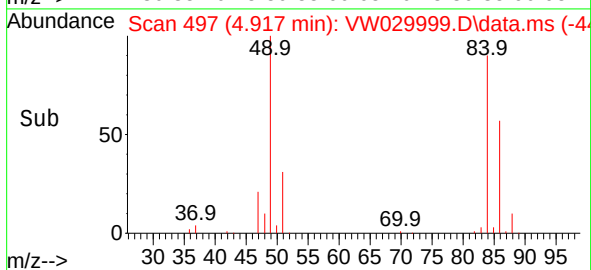
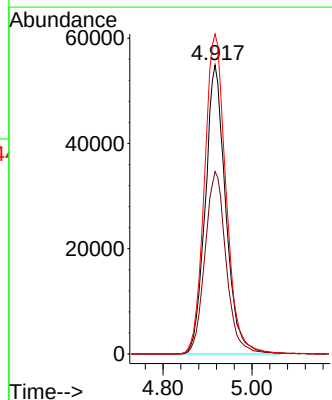
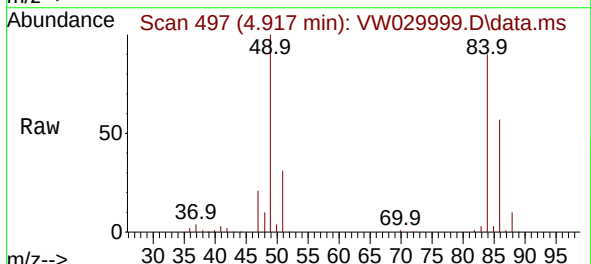
Instrument :
MSVOA_W
ClientSampleId :

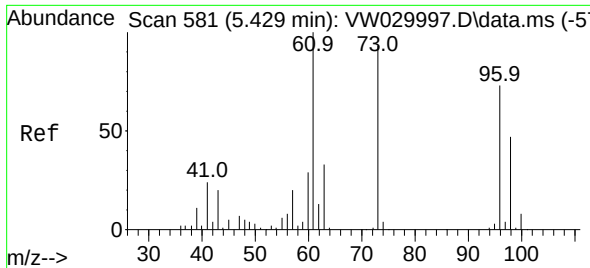
Tgt Ion: 43 Resp: 110590
Ion Ratio Lower Upper
43 100
58 33.0 0.0 57.6



#16
Methylene chloride
Concen: 29.392 ug/L
RT: 4.917 min Scan# 497
Delta R.T. -0.006 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

Tgt Ion: 84 Resp: 175651
Ion Ratio Lower Upper
84 100
86 63.1 44.7 82.9
49 110.7 99.0 184.0

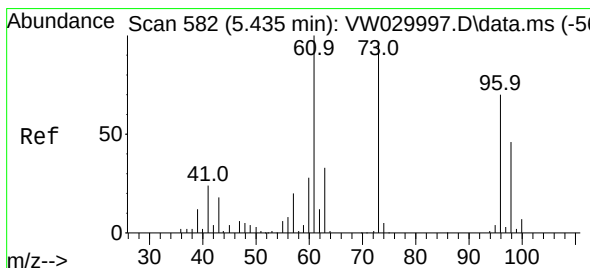
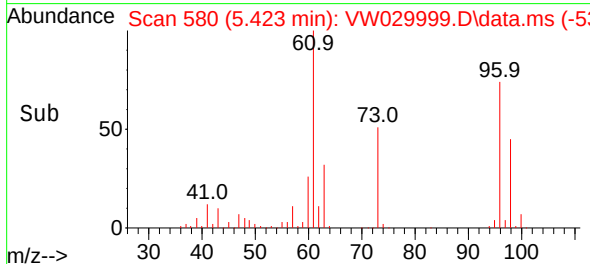
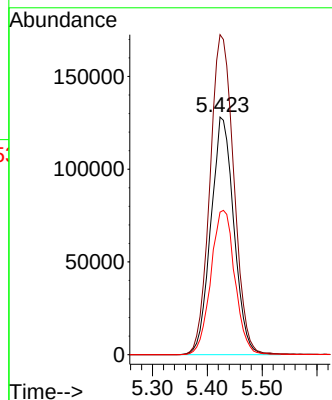
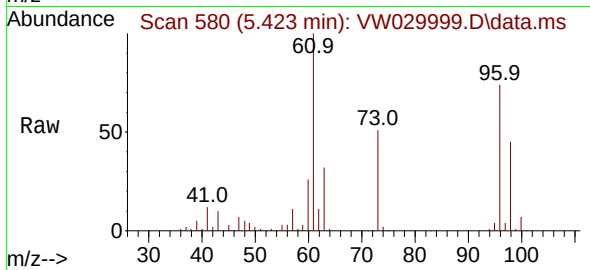




#17
trans-1,2-Dichloroethene
Concen: 88.797 ug/L
RT: 5.423 min Scan# 580
Delta R.T. -0.006 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

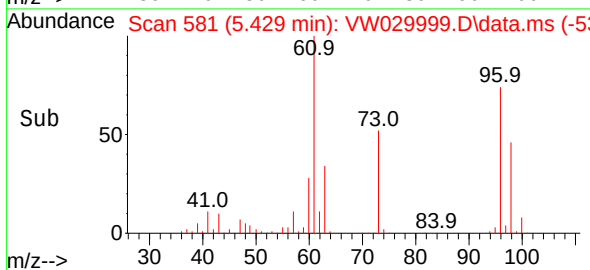
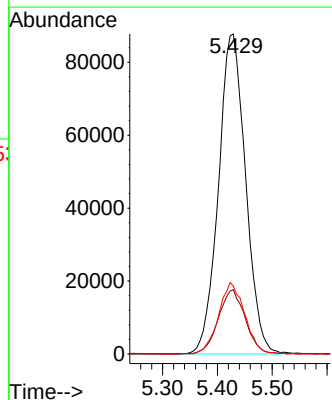
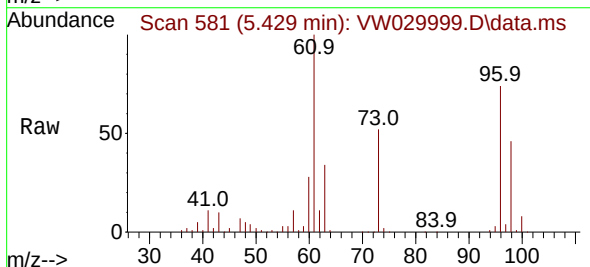
Instrument :
MSVOA_W
ClientSampleId :

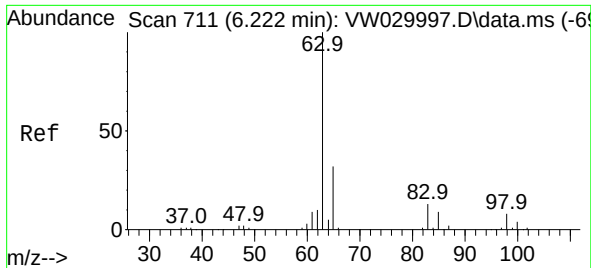
Tgt Ion: 96 Resp: 373691
Ion Ratio Lower Upper
96 100
61 134.7 111.2 206.6
98 60.0 45.0 83.6



#18
Methyl tert-butyl Ether
Concen: 43.528 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

Tgt Ion: 73 Resp: 301908
Ion Ratio Lower Upper
73 100
43 20.0 18.3 27.5
57 21.5 17.9 26.9





#19

1,1-Dichloroethane

Concen: 51.651 ug/L

RT: 6.216 min Scan# 711

Delta R.T. -0.006 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

ClientSampleId :

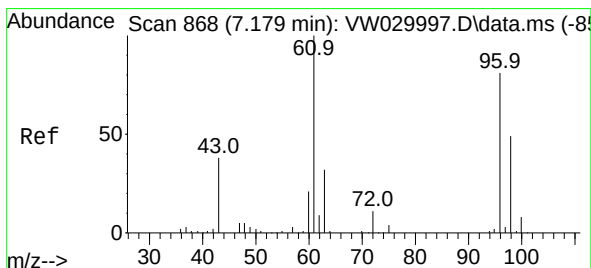
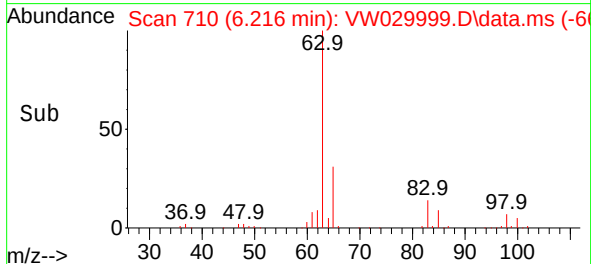
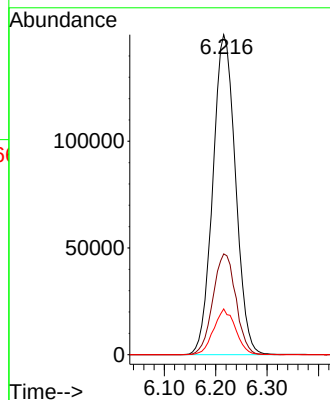
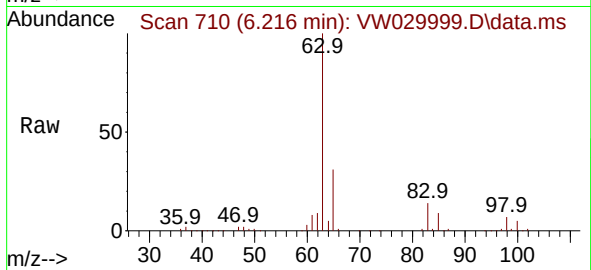
Tgt Ion: 63 Resp: 458439

Ion Ratio Lower Upper

63 100

65 31.5 22.3 41.3

83 14.3 8.5 15.7



#20

cis-1,2-Dichloroethene

Concen: 80.778 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.012 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

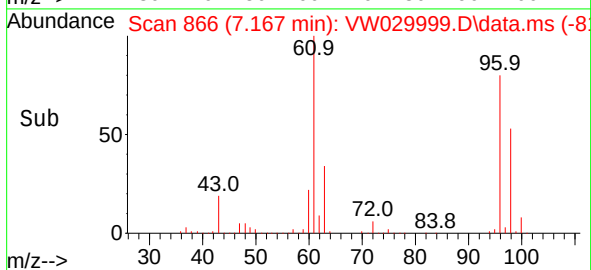
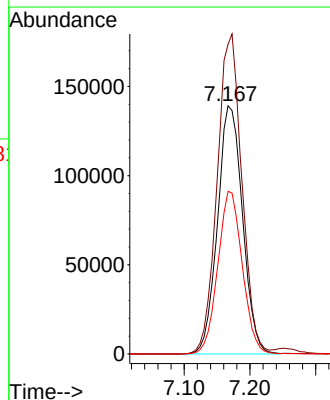
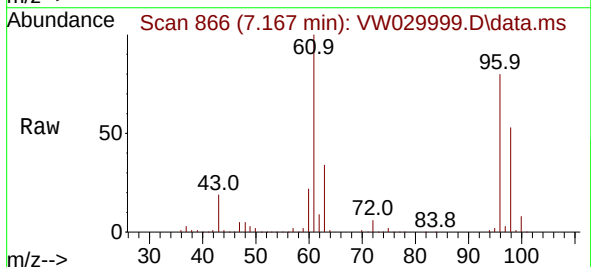
Tgt Ion: 96 Resp: 368748

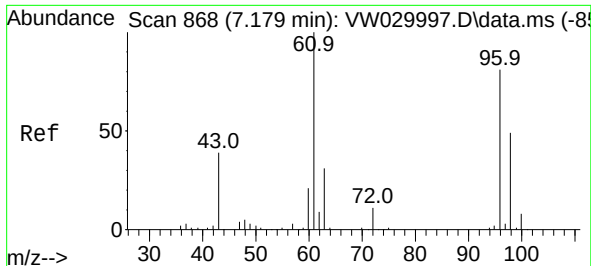
Ion Ratio Lower Upper

96 100

61 124.8 98.2 182.4

98 65.5 41.9 77.9





#22

2-Butanone

Concen: 54.884 ug/L

RT: 7.173 min Scan# 867

Delta R.T. -0.006 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

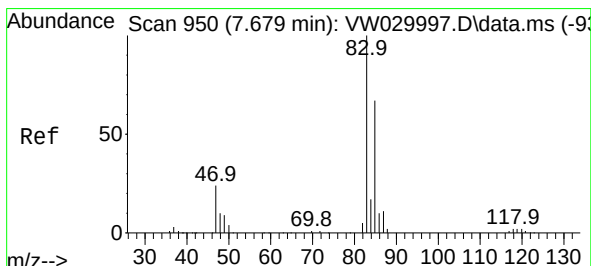
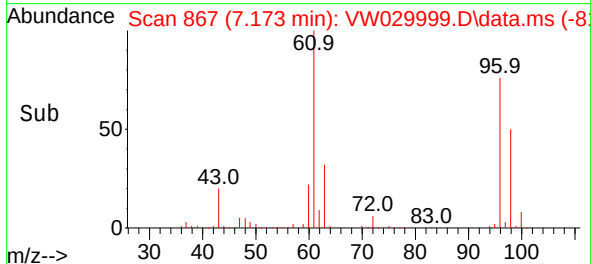
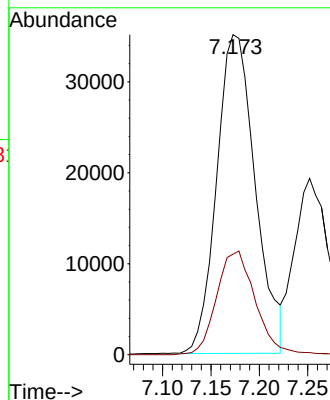
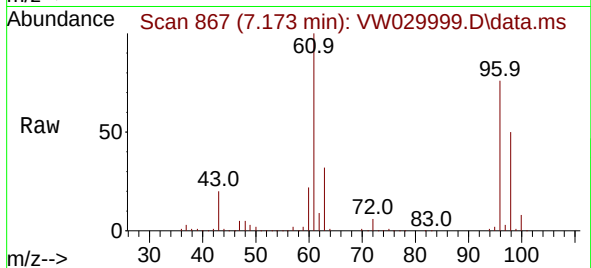
ClientSampleId :

Tgt Ion: 43 Resp: 97211

Ion Ratio Lower Upper

43 100

72 32.7 11.7 35.1



#25

Chloroform

Concen: 89.959 ug/L

RT: 7.673 min Scan# 949

Delta R.T. -0.006 min

Lab File: VW029999.D

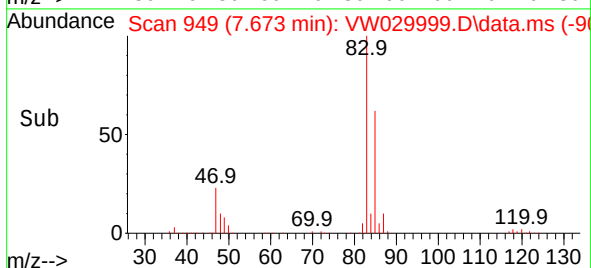
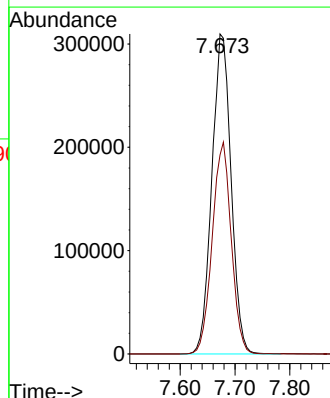
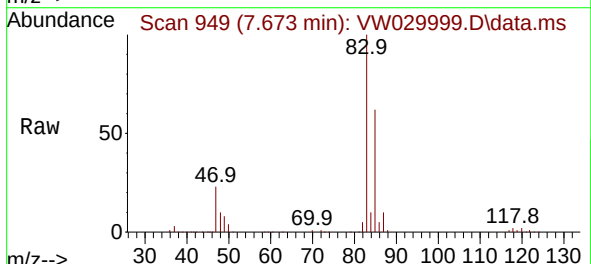
Acq: 23 Aug 2024 10:39

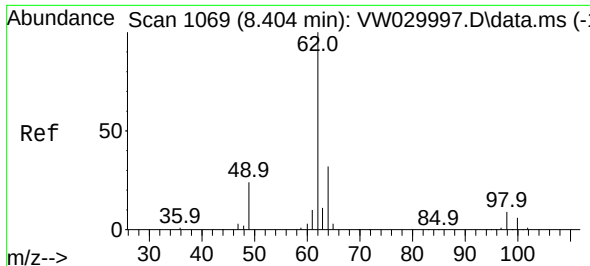
Tgt Ion: 83 Resp: 752270

Ion Ratio Lower Upper

83 100

85 62.2 44.4 82.4





#27

1,2-Dichloroethane

Concen: 20.388 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

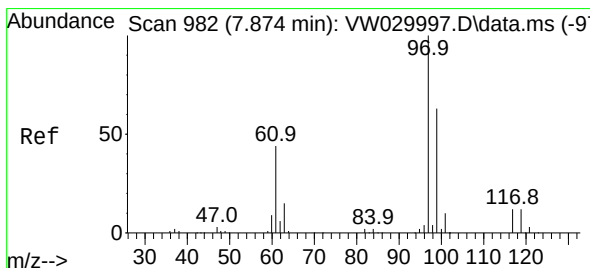
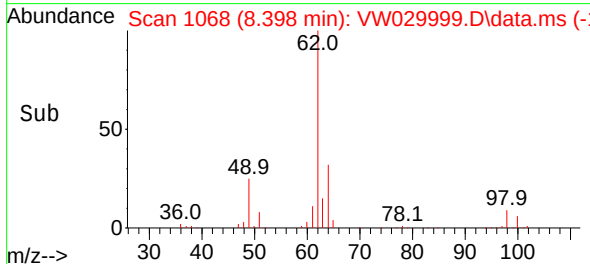
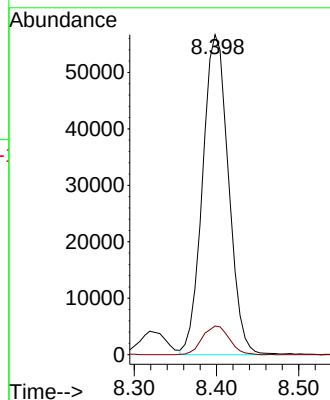
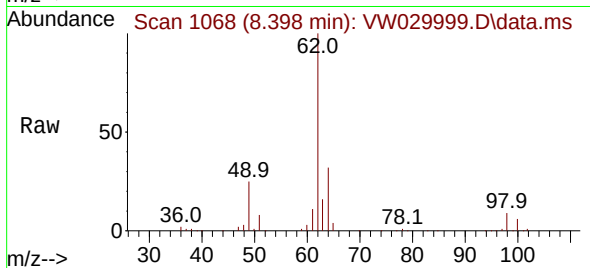
ClientSampleId :

Tgt Ion: 62 Resp: 124250

Ion Ratio Lower Upper

62 100

98 9.0 6.6 10.0



#30

1,1,1-Trichloroethane

Concen: 0.485 ug/L

RT: 7.868 min Scan# 981

Delta R.T. -0.006 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

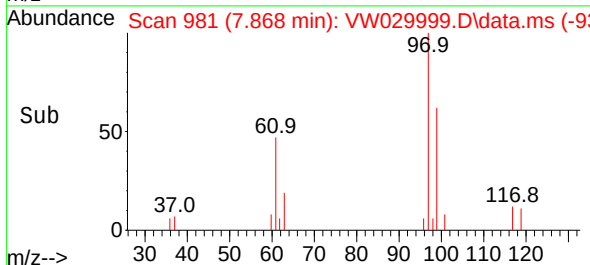
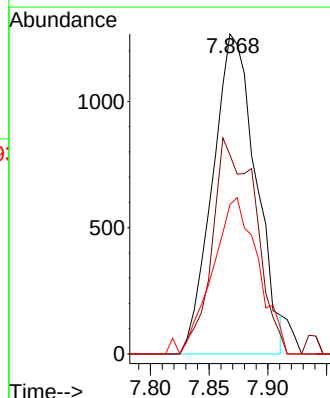
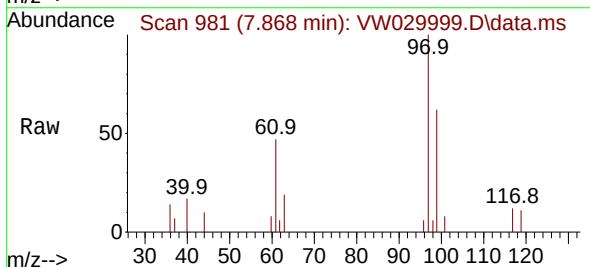
Tgt Ion: 97 Resp: 3247

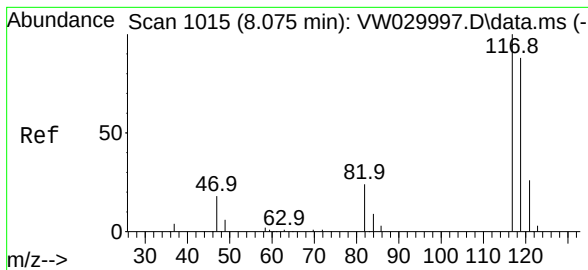
Ion Ratio Lower Upper

97 100

99 40.0 52.1 78.1#

61 51.2 42.6 63.8

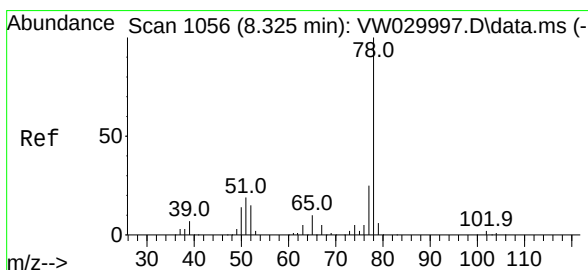
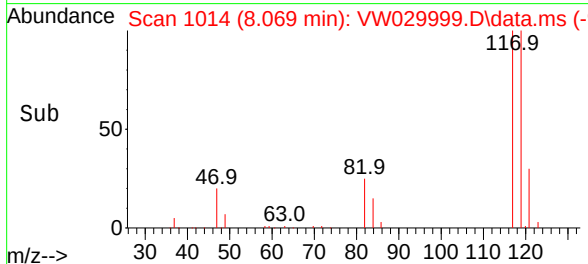
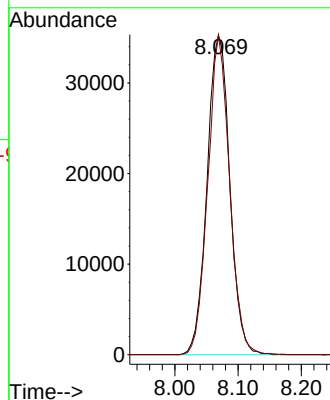
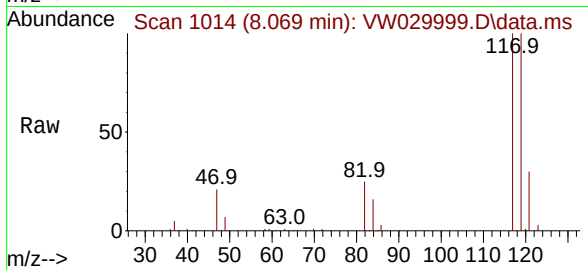




#31
Carbon tetrachloride
Concen: 14.610 ug/L
RT: 8.069 min Scan# 1015
Delta R.T. -0.006 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

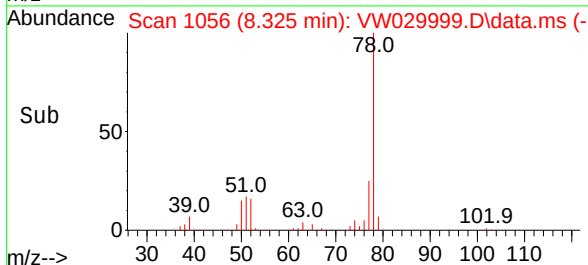
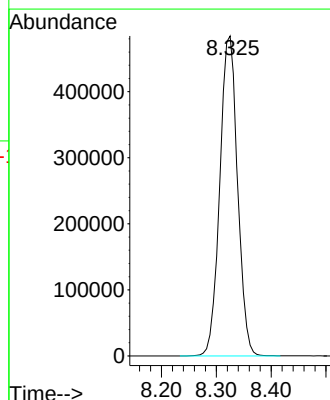
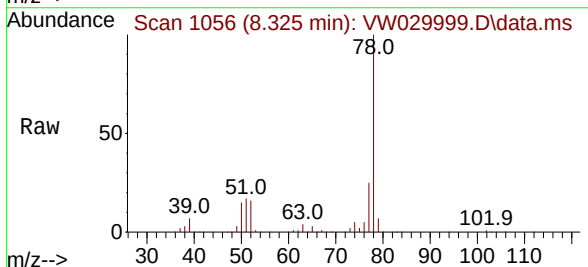
Instrument :
MSVOA_W
ClientSampleId :

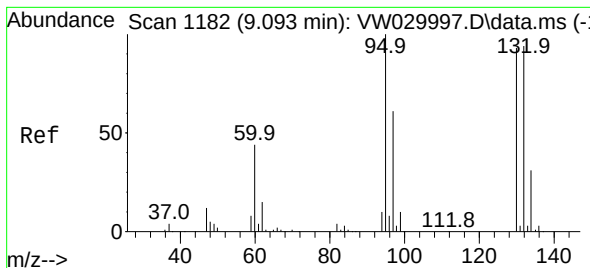
Tgt Ion:117 Resp: 88106
Ion Ratio Lower Upper
117 100
119 95.7 74.8 112.2



#33
Benzene
Concen: 60.247 ug/L
RT: 8.325 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

Tgt Ion: 78 Resp: 1090940





#34

Trichloroethene

Concen: 91.058 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.006 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 432246

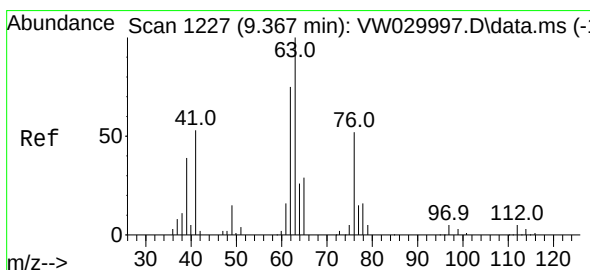
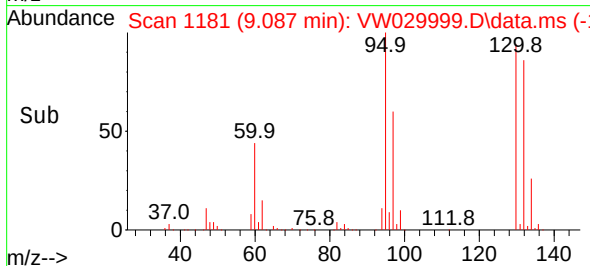
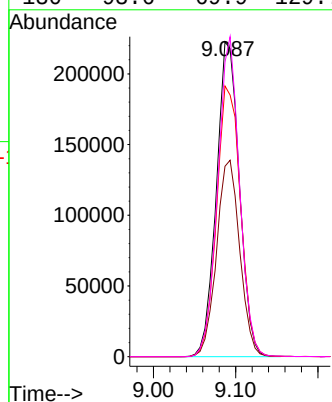
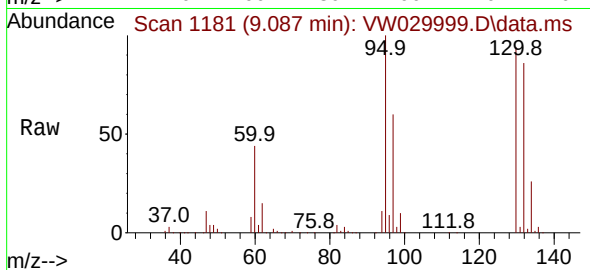
Ion Ratio Lower Upper

95 100

97 60.5 45.6 84.8

132 86.0 65.2 121.0

130 93.6 69.9 129.7



#37

1,2-Dichloropropane

Concen: 39.172 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. 0.000 min

Lab File: VW029999.D

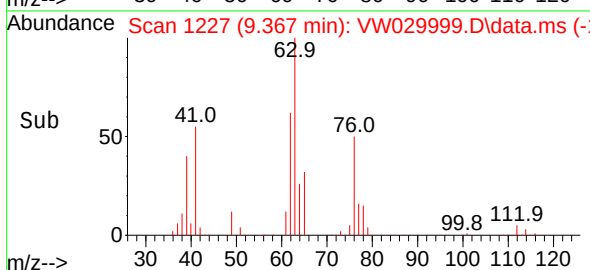
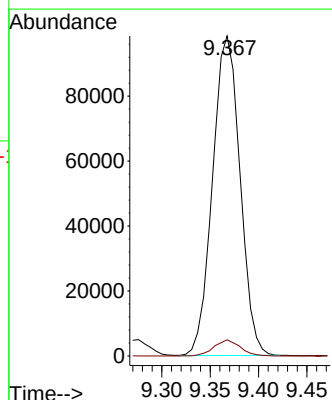
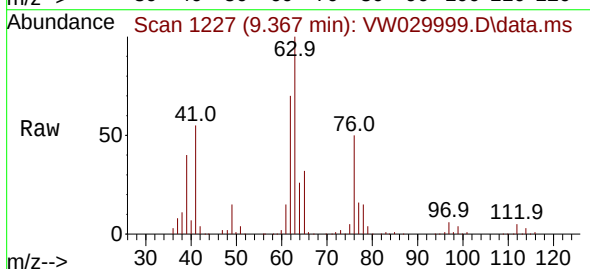
Acq: 23 Aug 2024 10:39

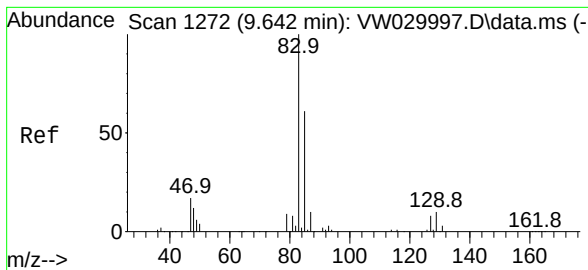
Tgt Ion: 63 Resp: 194379

Ion Ratio Lower Upper

63 100

112 4.8 3.3 4.9





#38

Bromodichloromethane

Concen: 59.376 ug/L

RT: 9.642 min Scan# 1342

Delta R.T. 0.000 min

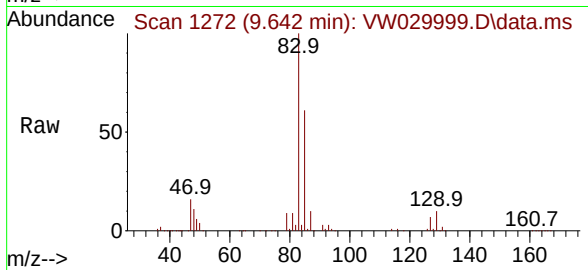
Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

ClientSampleId :



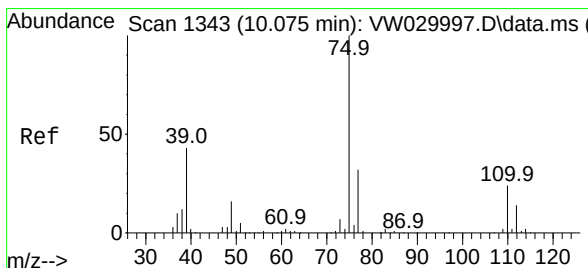
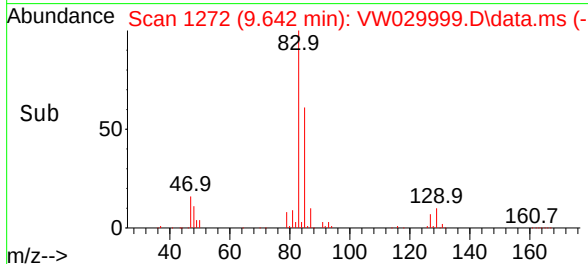
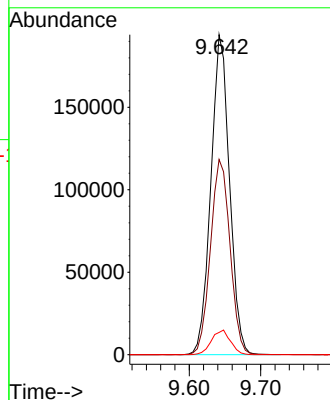
Tgt Ion: 83 Resp: 350859

Ion Ratio Lower Upper

83 100

85 61.0 46.6 86.6

127 7.0 5.9 8.9



#39

cis-1,3-Dichloropropene

Concen: 62.326 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.006 min

Lab File: VW029999.D

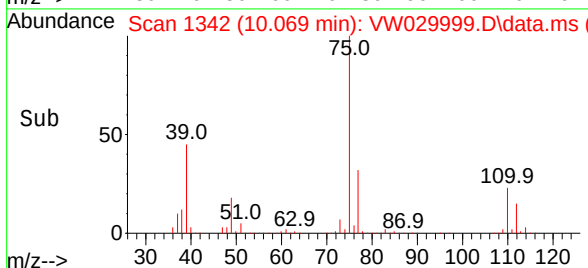
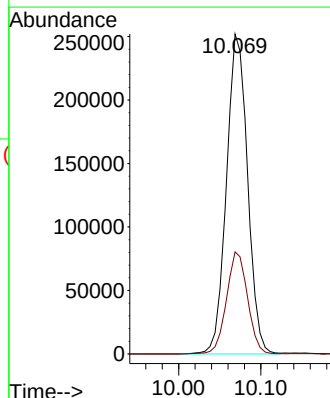
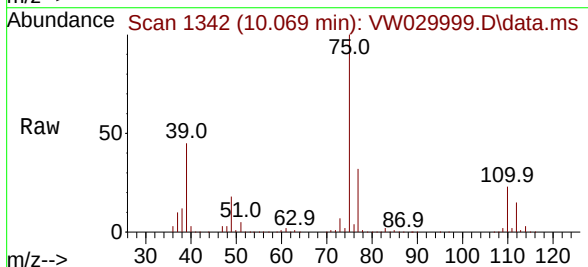
Acq: 23 Aug 2024 10:39

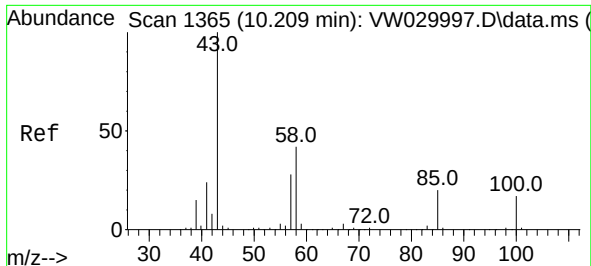
Tgt Ion: 75 Resp: 450410

Ion Ratio Lower Upper

75 100

77 31.9 20.8 38.6





#40

4-Methyl-2-pentanone

Concen: 137.124 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. 0.000 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

ClientSampleId :

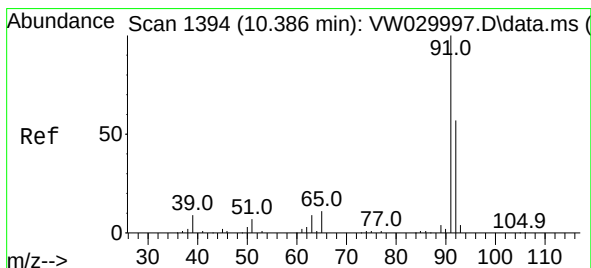
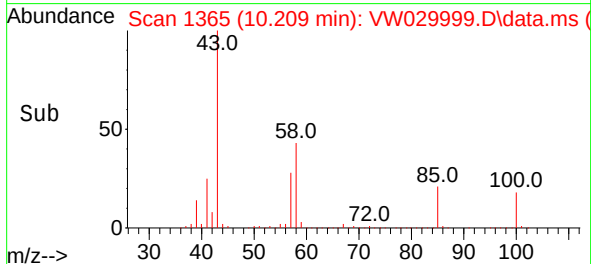
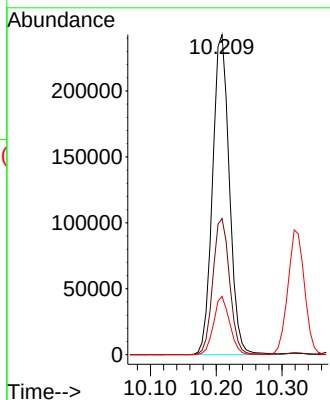
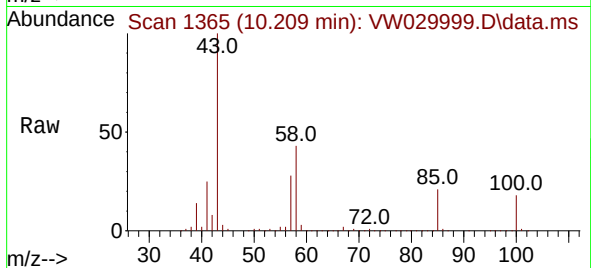
Tgt Ion: 43 Resp: 432204

Ion Ratio Lower Upper

43 100

58 42.6 28.7 43.1

100 17.4 10.0 15.0#



#42

Toluene

Concen: 72.692 ug/L

RT: 10.386 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VW029999.D

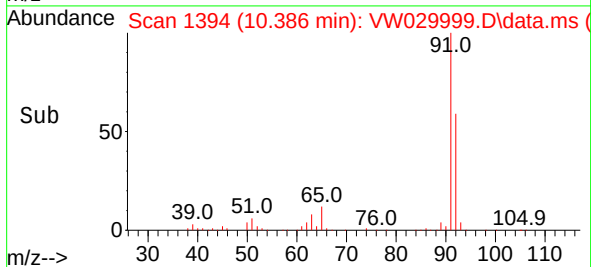
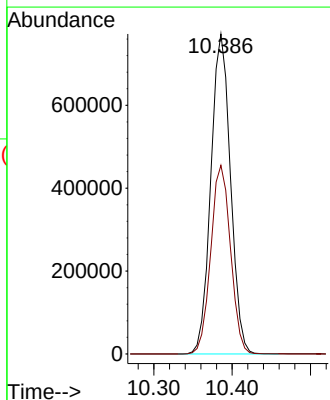
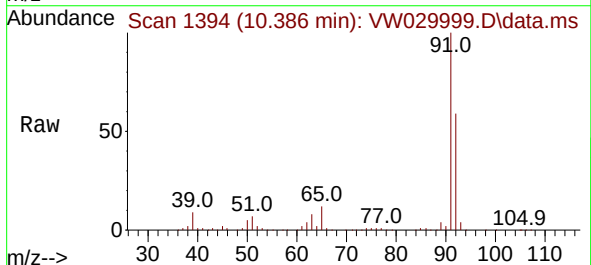
Acq: 23 Aug 2024 10:39

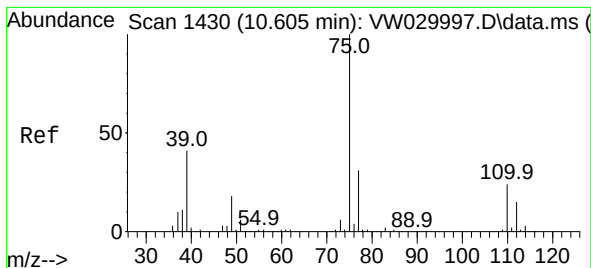
Tgt Ion: 91 Resp: 1343587

Ion Ratio Lower Upper

91 100

92 59.0 39.5 73.4





#44

trans-1,3-Dichloropropene

Concen: 8.233 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.000 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

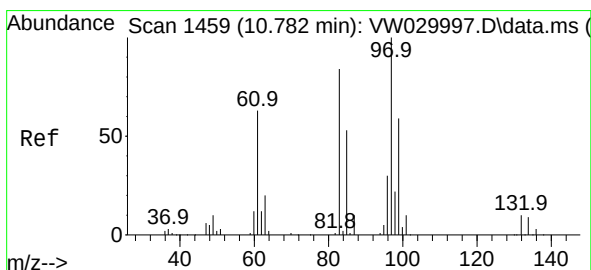
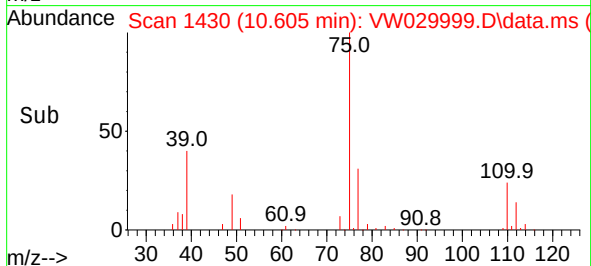
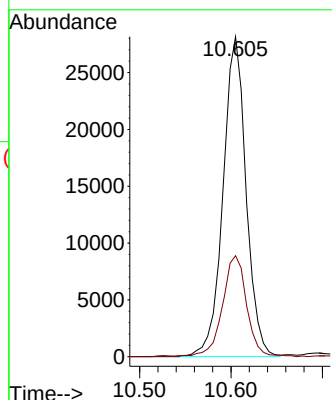
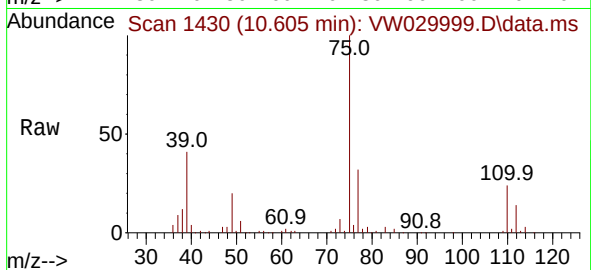
ClientSampleId :

Tgt Ion: 75 Resp: 49391

Ion Ratio Lower Upper

75 100

77 31.5 22.0 41.0



#45

1,1,2-Trichloroethane

Concen: 19.830 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. 0.000 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Tgt Ion: 97 Resp: 66107

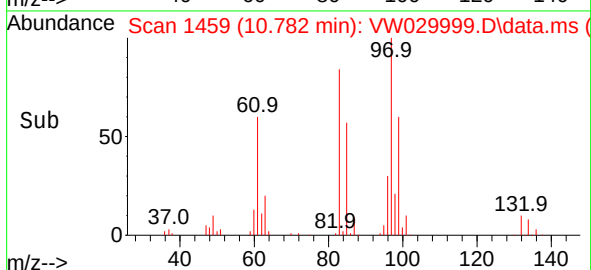
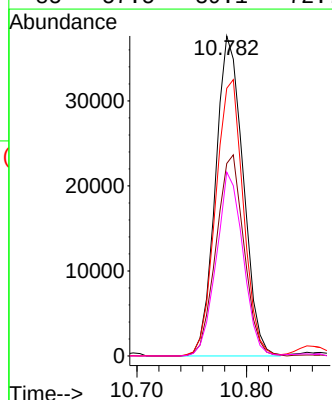
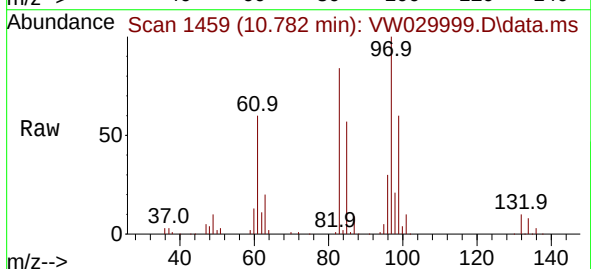
Ion Ratio Lower Upper

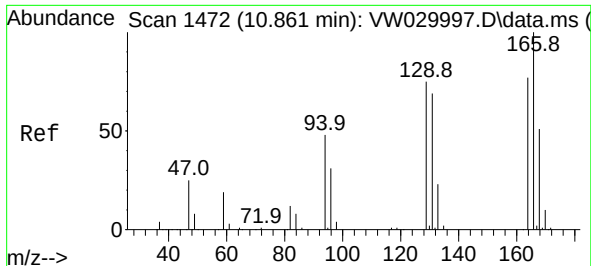
97 100

99 60.1 40.1 74.5

83 83.7 58.5 108.7

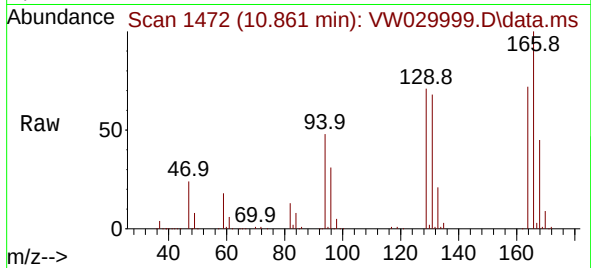
85 57.5 39.1 72.7



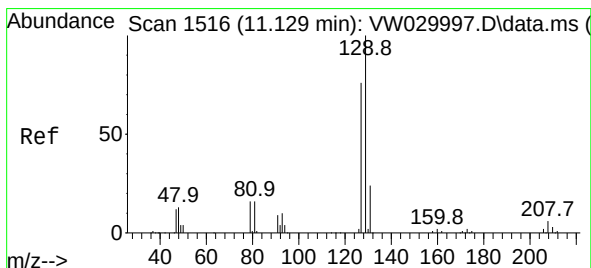
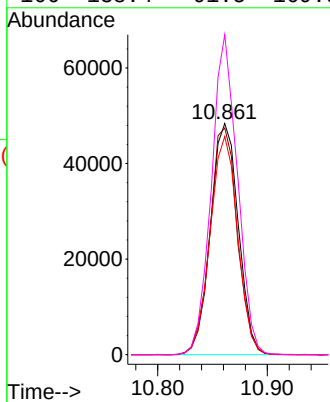
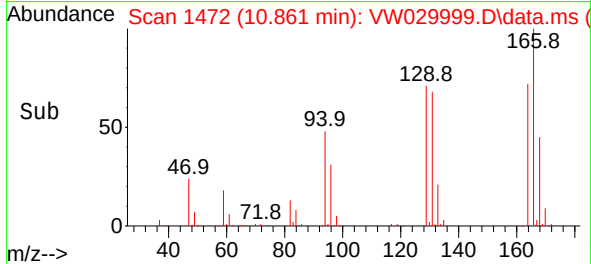


#46
Tetrachloroethene
Concen: 24.688 ug/L
RT: 10.861 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

Instrument :
MSVOA_W
ClientSampleId :

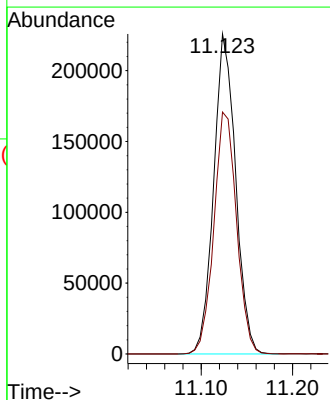
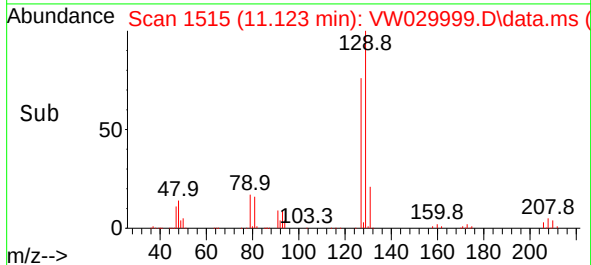
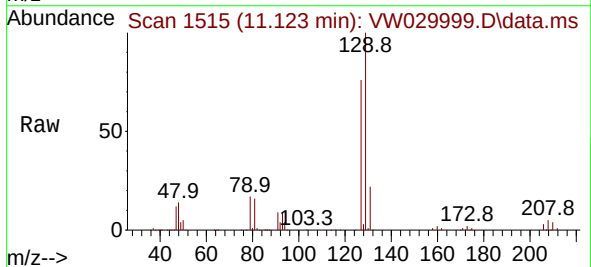


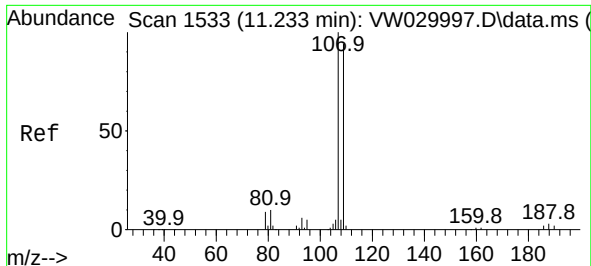
Tgt Ion:164 Resp: 85178
Ion Ratio Lower Upper
164 100
129 98.1 77.8 144.6
131 94.4 70.9 131.7
166 138.4 91.5 169.9



#49
Dibromochloromethane
Concen: 108.976 ug/L
RT: 11.123 min Scan# 1515
Delta R.T. -0.006 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

Tgt Ion:129 Resp: 377136
Ion Ratio Lower Upper
129 100
127 75.6 52.4 97.2





#50

1,2-Dibromoethane

Concen: 25.524 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

ClientSampleId :

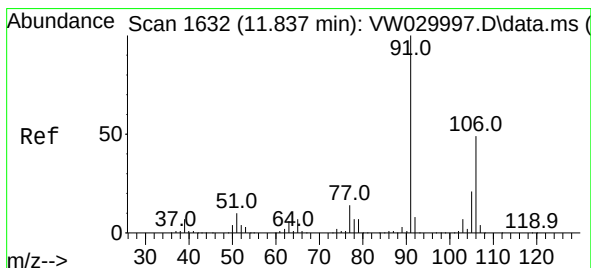
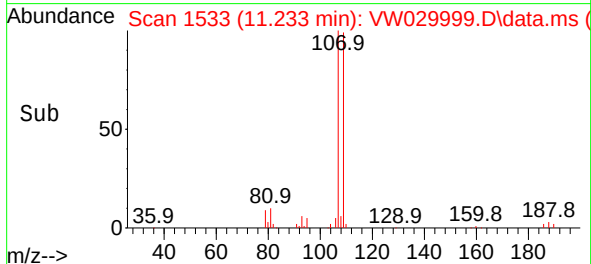
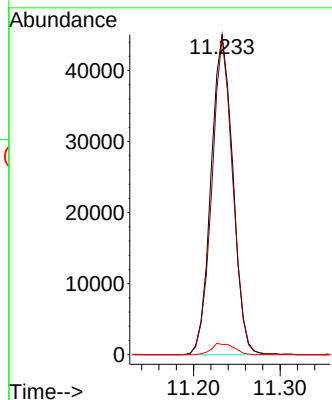
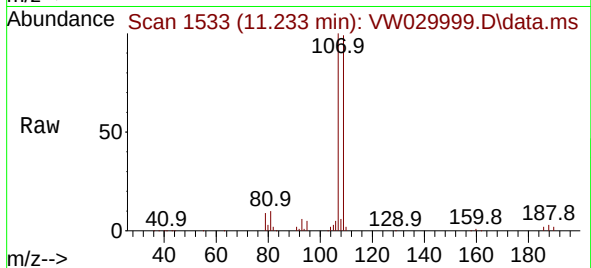
Tgt Ion:107 Resp: 78730

Ion Ratio Lower Upper

107 100

109 98.9 64.8 120.3

188 3.2 2.7 4.1



#53

m,p-Xylene

Concen: 47.001 ug/L

RT: 11.830 min Scan# 1631

Delta R.T. -0.006 min

Lab File: VW029999.D

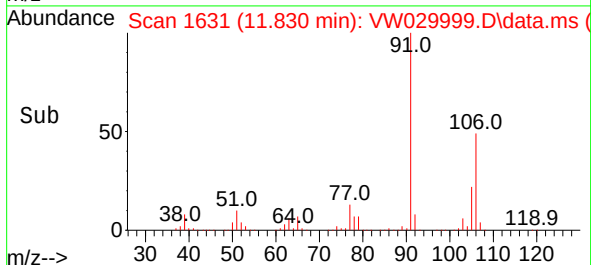
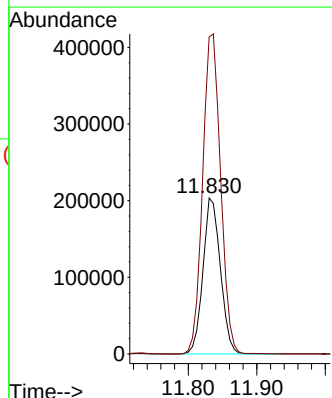
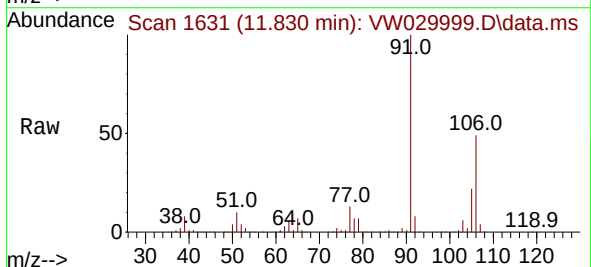
Acq: 23 Aug 2024 10:39

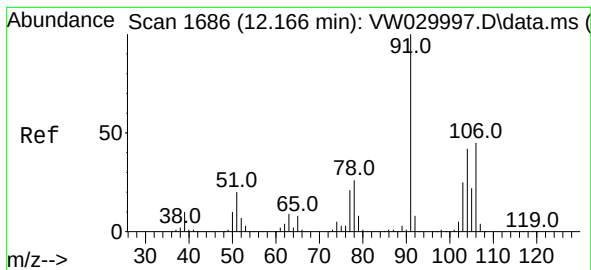
Tgt Ion:106 Resp: 360395

Ion Ratio Lower Upper

106 100

91 203.3 151.4 281.2





#54

o-Xylene

Concen: 23.445 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

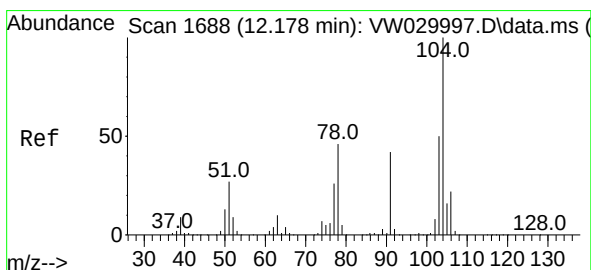
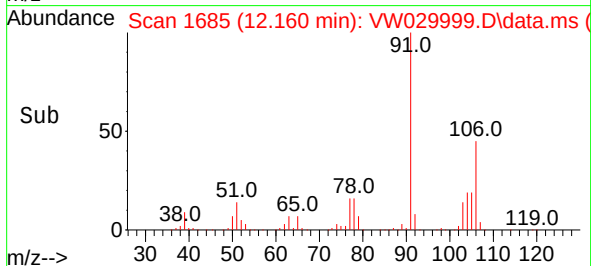
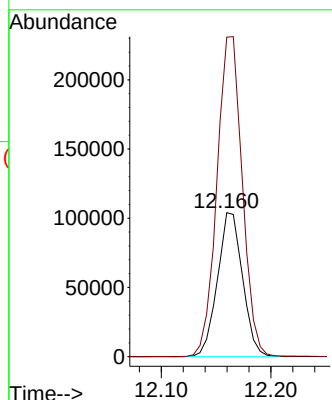
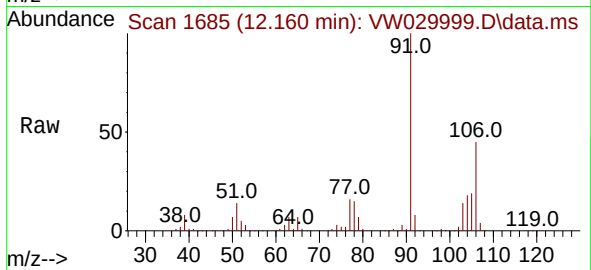
ClientSampleId :

Tgt Ion:106 Resp: 165547

Ion Ratio Lower Upper

106 100

91 221.8 155.8 289.4



#55

Styrene

Concen: 22.394 ug/L

RT: 12.178 min Scan# 1688

Delta R.T. 0.000 min

Lab File: VW029999.D

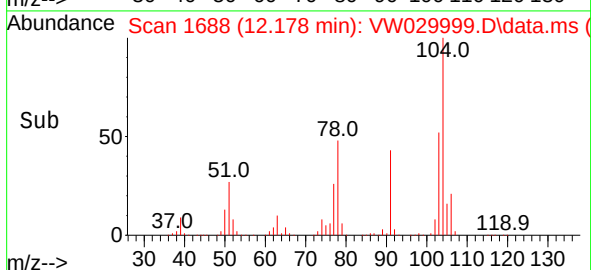
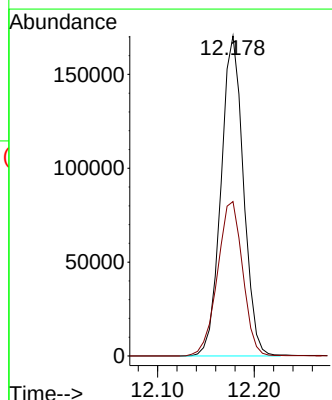
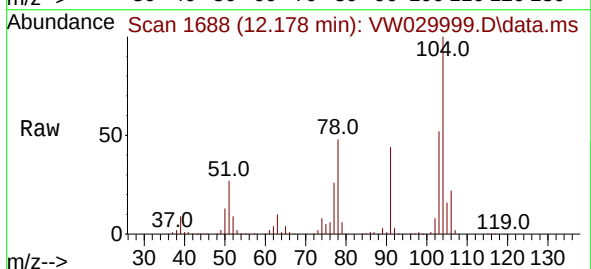
Acq: 23 Aug 2024 10:39

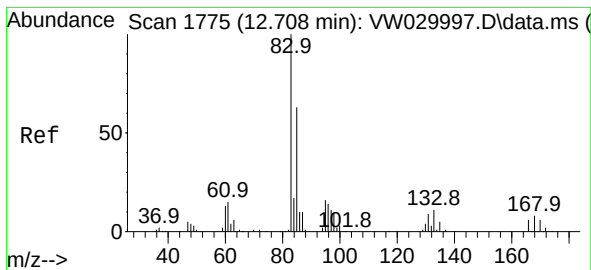
Tgt Ion:104 Resp: 274090

Ion Ratio Lower Upper

104 100

78 48.2 33.3 61.9

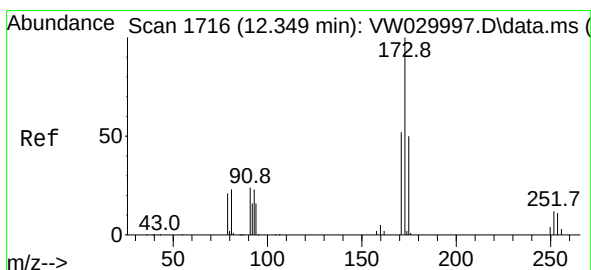
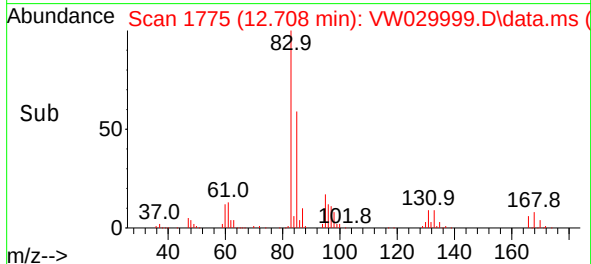
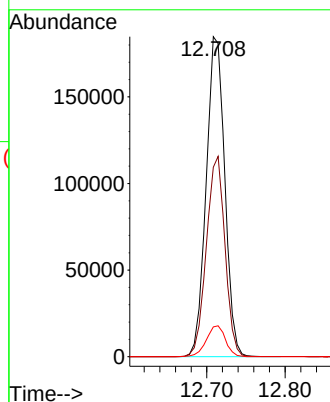
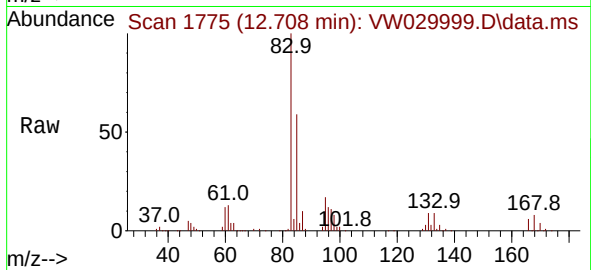




#57
1,1,2,2-Tetrachloroethane
Concen: 74.387 ug/L
RT: 12.708 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

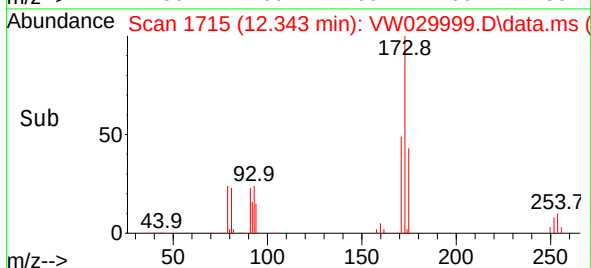
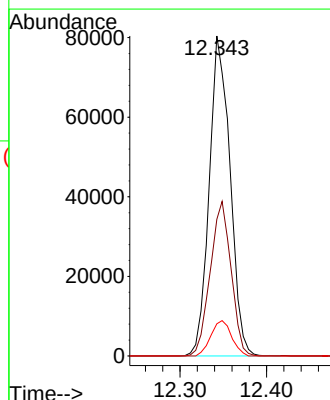
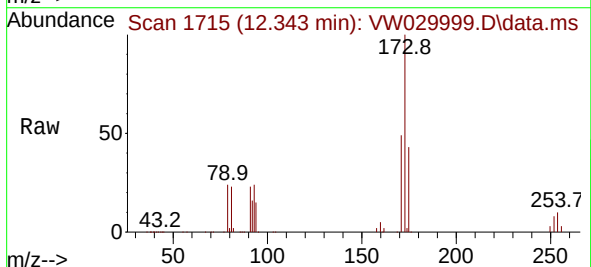
Instrument :
MSVOA_W
ClientSampleId :

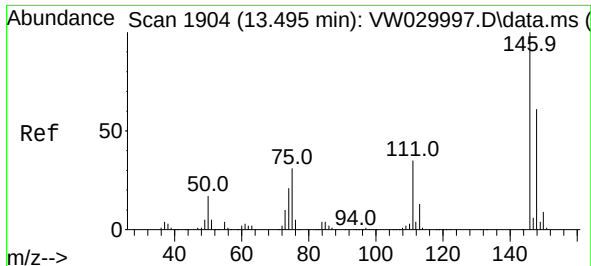
Tgt Ion: 83 Resp: 304366
Ion Ratio Lower Upper
83 100
85 59.2 44.2 82.0
131 9.3 6.2 9.2#



#59
Bromoform
Concen: 67.724 ug/L
RT: 12.343 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

Tgt Ion:173 Resp: 134243
Ion Ratio Lower Upper
173 100
175 48.2 38.1 57.1
254 11.0 7.8 11.6





#64

1,3-Dichlorobenzene

Concen: 15.870 ug/L

RT: 13.501 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

Instrument :

MSVOA_W

ClientSampleId :

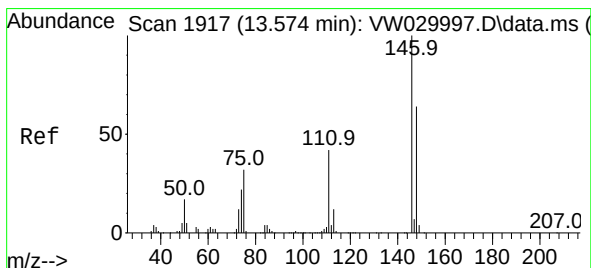
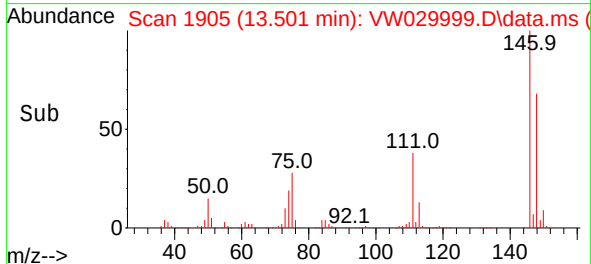
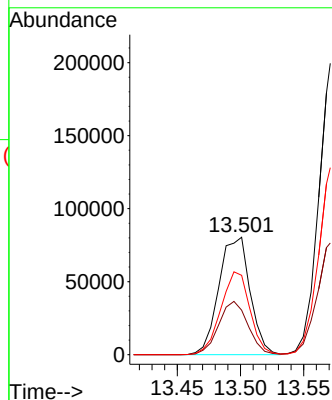
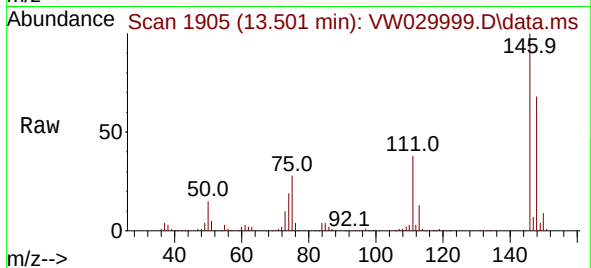
Tgt Ion:146 Resp: 138022

Ion Ratio Lower Upper

146 100

111 37.9 28.7 53.3

148 67.6 43.4 80.6



#65

1,4-Dichlorobenzene

Concen: 37.536 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW029999.D

Acq: 23 Aug 2024 10:39

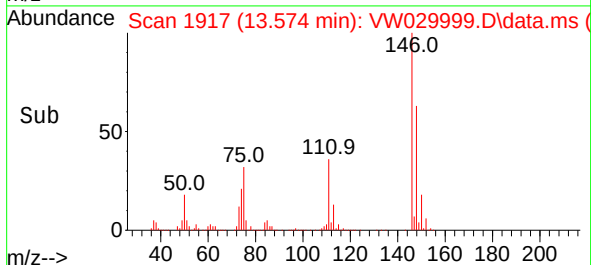
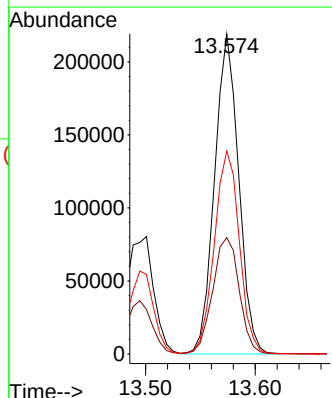
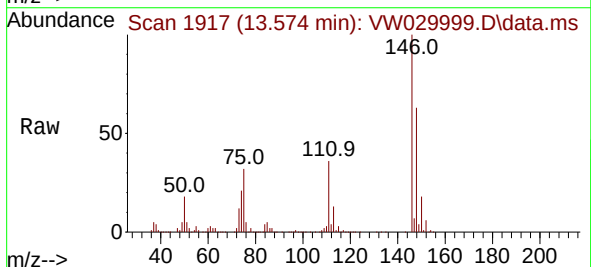
Tgt Ion:146 Resp: 335341

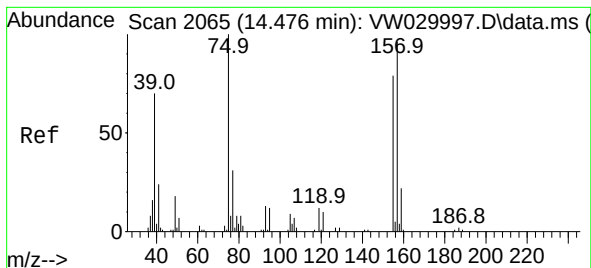
Ion Ratio Lower Upper

146 100

111 36.3 30.1 55.9

148 63.4 45.4 84.4

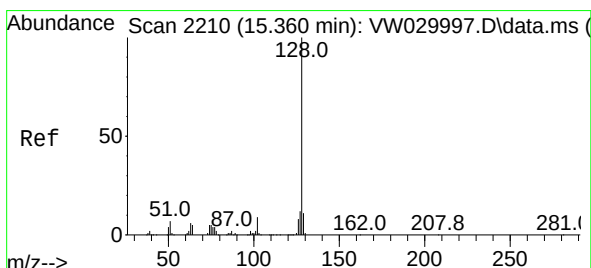
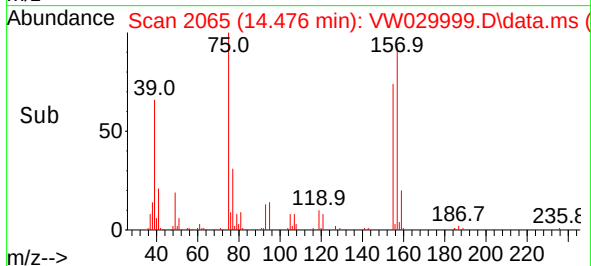
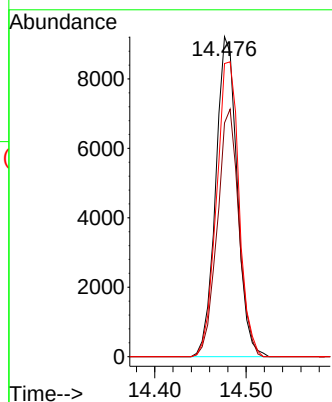
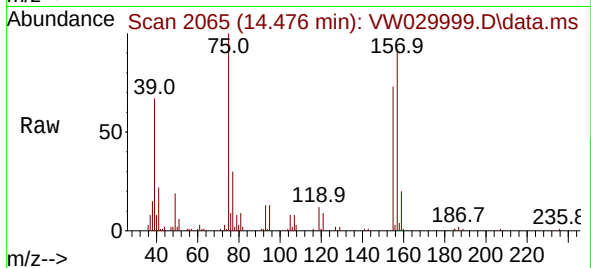




#68
1,2-Dibromo-3-chloropropane
Concen: 20.585 ug/L
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 75 Resp: 14975
Ion Ratio Lower Upper
75 100
155 73.1 47.8 71.6#
157 91.6 63.7 95.5



#71
Naphthalene
Concen: 55.572 ug/L
RT: 15.360 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VW029999.D
Acq: 23 Aug 2024 10:39

Tgt Ion: 128 Resp: 531574
Ion Ratio Lower Upper
128 100
127 13.2 10.7 16.1
129 10.9 8.9 13.3

