

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071524\
 Data File : VW029581.D
 Acq On : 15 Jul 2024 17:38
 Operator : SY/MD
 Sample : P3201-22
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 16 00:02:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM070824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Mon Jul 15 23:59:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	262071	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	251938	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	124739	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	85211	20.127	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.520%
7) Chloroethane-d5	2.893	69	65774	21.577	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.320%
11) 1,1-Dichloroethene-d2	4.027	65	41559	21.861	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.440%
21) 2-Butanone-d5	7.081	46	67766	53.323	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	106.640%
24) Chloroform-d	7.648	84	197432	26.059	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.240%
26) 1,2-Dichloroethane-d4	8.307	65	116203	26.149	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.600%
32) Benzene-d6	8.276	84	367629	24.358	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.440%
36) 1,2-Dichloropropane-d6	9.276	67	122427	25.370	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.480%
41) Toluene-d8	10.325	98	334926	25.233	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.920%
43) trans-1,3-Dichloroprop...	10.575	79	47998	23.489	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.960%
47) 2-Hexanone-d5	10.922	63	49307	56.231	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	112.460%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	104363	26.637	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.560%
66) 1,2-Dichlorobenzene-d4	13.848	152	110483	25.433	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.720%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	4.051	96	129858	39.844	ug/L	86
13) Acetone	4.118	43	98132	76.504	ug/L	99
15) Methyl Acetate	4.673	43	891	0.396	ug/L	92
16) Methylene chloride	4.929	84	128014	27.284	ug/L	93
17) trans-1,2-Dichloroethene	5.429	96	300657	83.333	ug/L	94
18) Methyl tert-butyl Ether	5.429	73	533192	86.859	ug/L	100
19) 1,1-Dichloroethane	6.216	63	197174	26.612	ug/L	98
20) cis-1,2-Dichloroethene	7.167	96	185652	47.057	ug/L	100
22) 2-Butanone	7.167	43	318172	188.945	ug/L	98
25) Chloroform	7.673	83	221171	30.851	ug/L	98
27) 1,2-Dichloroethane	8.398	62	358326	66.639	ug/L	99
33) Benzene	8.325	78	1286546	81.618	ug/L	100
34) Trichloroethene	9.087	95	392894	94.386	ug/L	93
35) Methylcyclohexane	9.367	83	2883	0.431	ug/L #	19
37) 1,2-Dichloropropane	9.367	63	401784	92.175	ug/L	100
39) cis-1,3-Dichloropropene	10.069	75	310281	47.393	ug/L	99
40) 4-Methyl-2-pentanone	10.209	43	281577	91.658	ug/L	100
44) trans-1,3-Dichloropropene	10.605	75	218148	38.876	ug/L	98
45) 1,1,2-Trichloroethane	10.788	97	1254	0.400	ug/L	91

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Quant Title : SFAM01.0
QLast Update : Mon Jul 15 23:59:48 2024
Response via : Initial Calibration

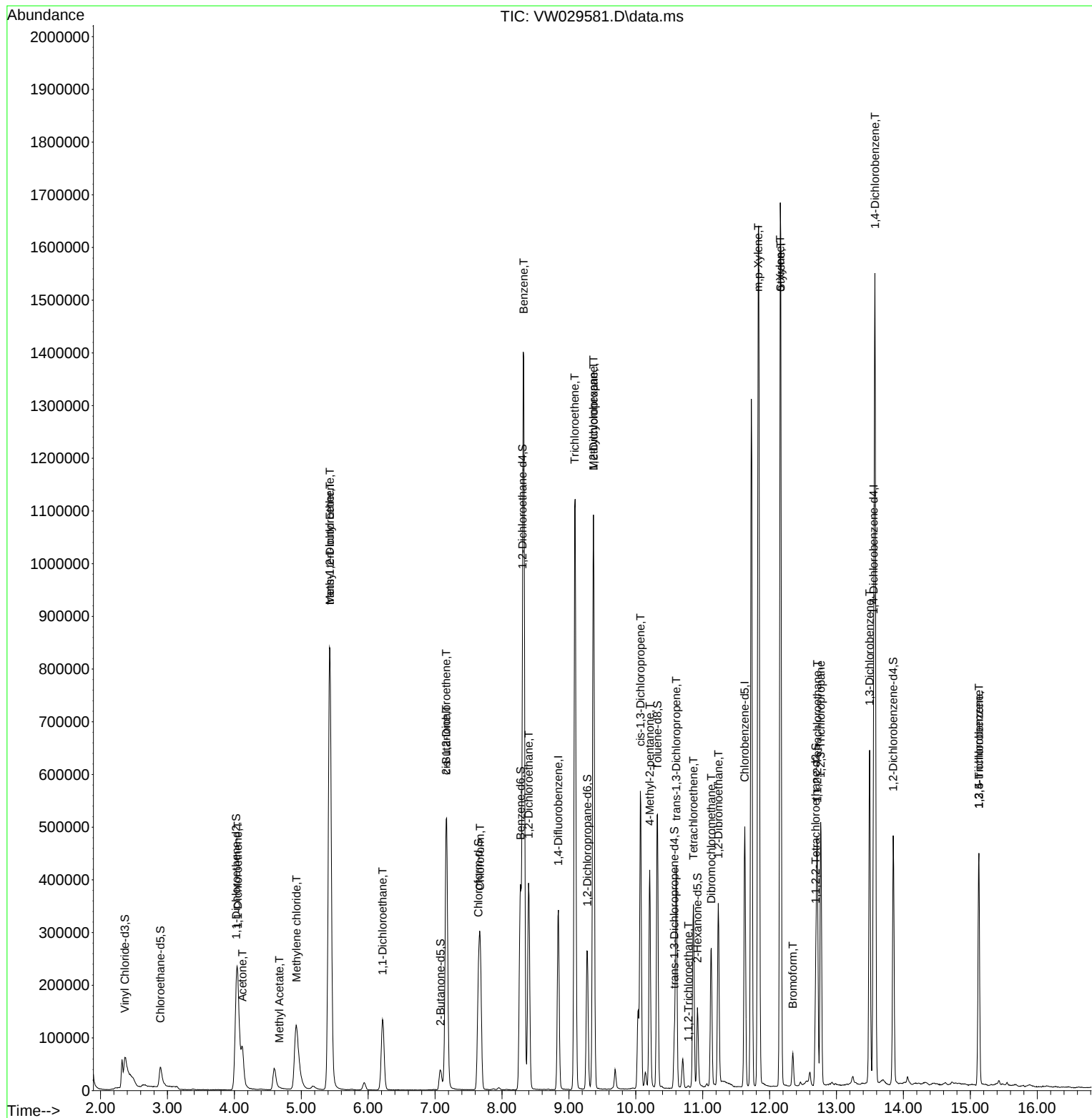
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	10.861	164	73662	24.908	ug/L	94
49) Dibromochloromethane	11.129	129	131165	40.205	ug/L	95
50) 1,2-Dibromoethane	11.233	107	224054	75.000	ug/L	95
53) m,p-Xylene	11.830	106	495677	73.904	ug/L	99
54) o-Xylene	12.160	106	423717	68.303	ug/L	99
55) Styrene	12.166	104	21361	1.958	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.714	83	221563	56.030	ug/L	96
59) Bromoform	12.349	173	25710	13.352	ug/L	98
61) 1,2,3-Trichloropropane	12.763	75	208041	68.913	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	226578	28.801	ug/L	99
65) 1,4-Dichlorobenzene	13.574	146	514076	63.785	ug/L	90
69) 1,3,5-Trichlorobenzene	15.129	180	128058	24.952	ug/L	96
70) 1,2,4-trichlorobenzene	15.129	180	128058	28.358	ug/L	98

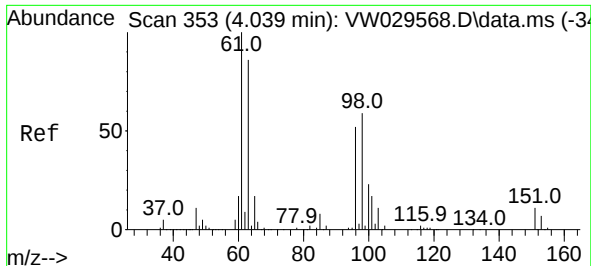
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 39.844 ug/L

RT: 4.051 min Scan# 353

Delta R.T. 0.012 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

ClientSampleId :

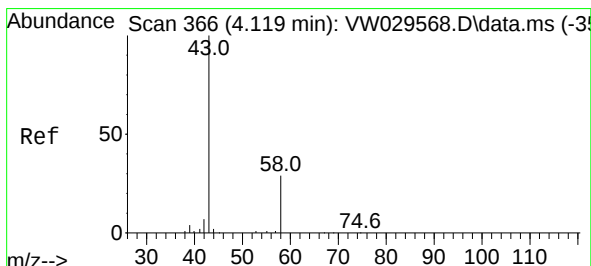
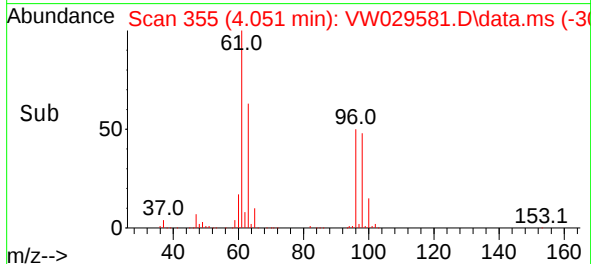
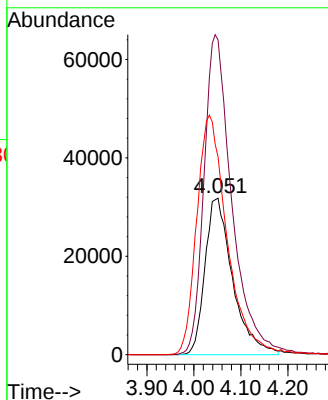
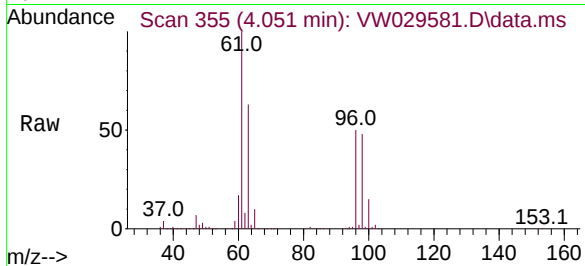
Tgt Ion: 96 Resp: 129858

Ion Ratio Lower Upper

96 100

61 201.2 132.4 245.8

63 126.5 108.4 201.2



#13

Acetone

Concen: 76.504 ug/L

RT: 4.118 min Scan# 366

Delta R.T. -0.000 min

Lab File: VW029581.D

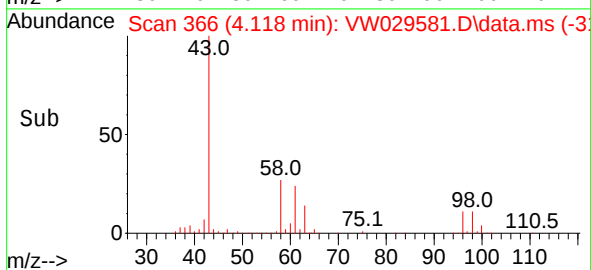
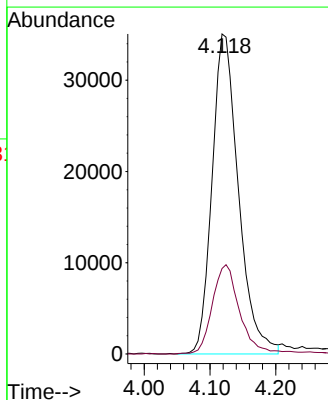
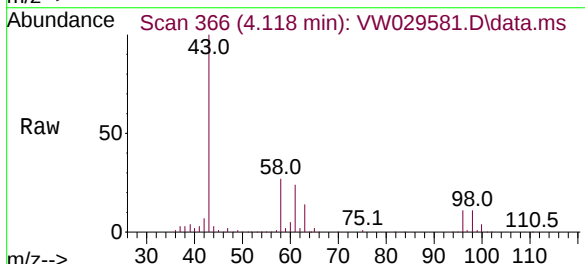
Acq: 15 Jul 2024 17:38

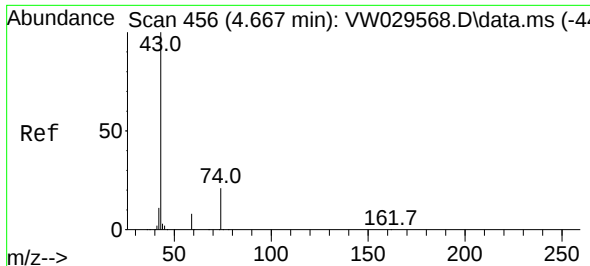
Tgt Ion: 43 Resp: 98132

Ion Ratio Lower Upper

43 100

58 27.5 0.0 55.6

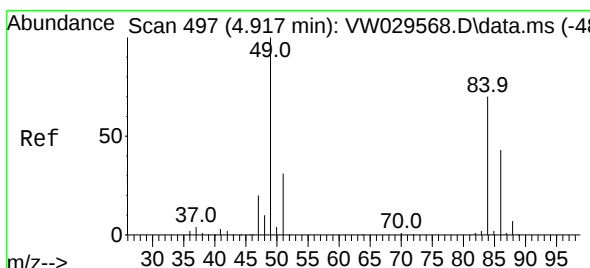
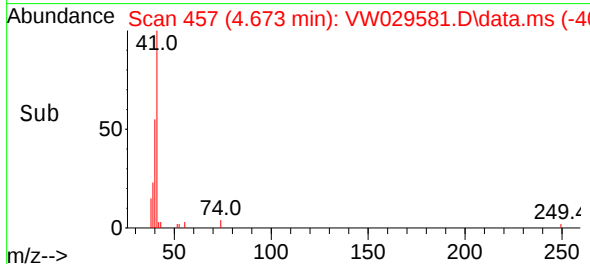
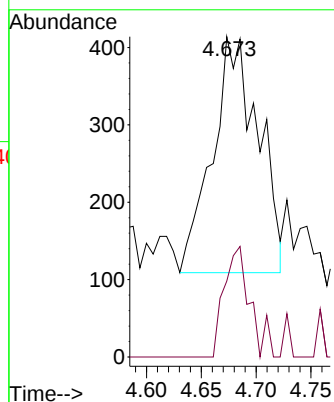
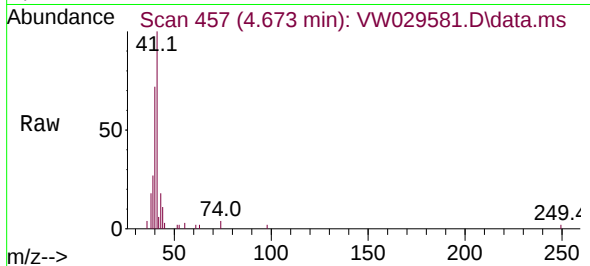




#15
Methyl Acetate
Concen: 0.396 ug/L
RT: 4.673 min Scan# 456
Delta R.T. 0.006 min
Lab File: VW029581.D
Acq: 15 Jul 2024 17:38

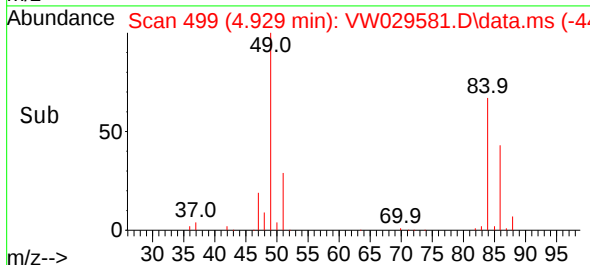
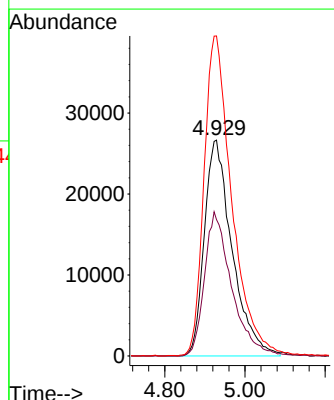
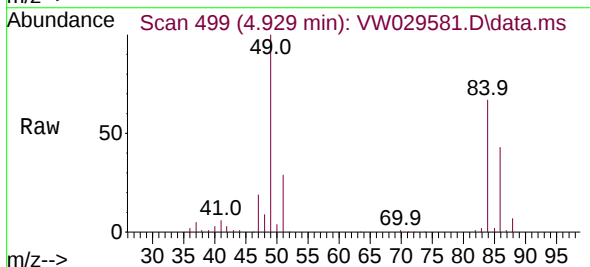
Instrument :
MSVOA_W
ClientSampleId :

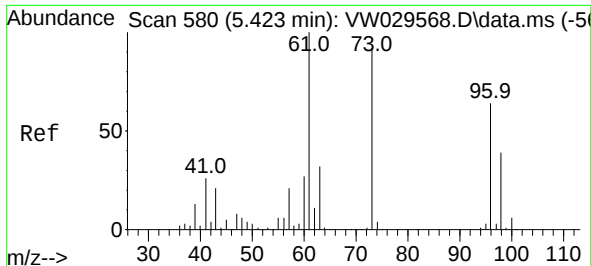
Tgt Ion: 43 Resp: 891
Ion Ratio Lower Upper
43 100
74 24.1 16.2 24.4



#16
Methylene chloride
Concen: 27.284 ug/L
RT: 4.929 min Scan# 499
Delta R.T. 0.012 min
Lab File: VW029581.D
Acq: 15 Jul 2024 17:38

Tgt Ion: 84 Resp: 128014
Ion Ratio Lower Upper
84 100
86 63.2 46.2 85.8
49 148.2 96.7 179.7





#17

trans-1,2-Dichloroethene

Concen: 83.333 ug/L

RT: 5.429 min Scan# 580

Delta R.T. 0.006 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

ClientSampleId :

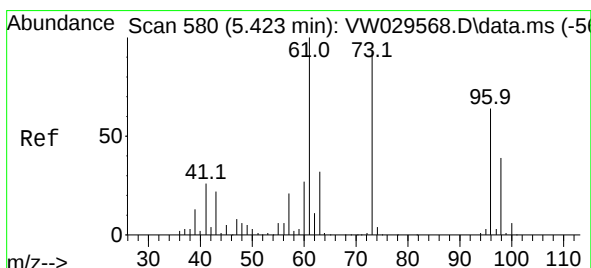
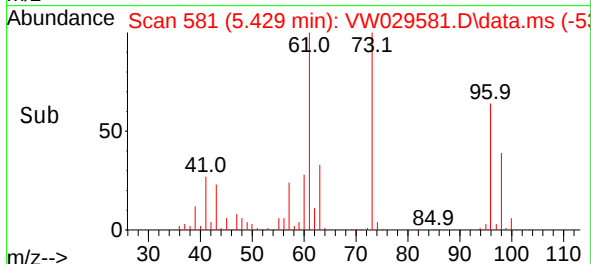
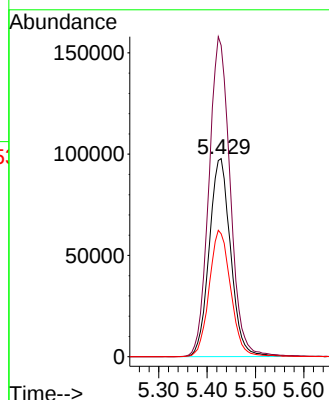
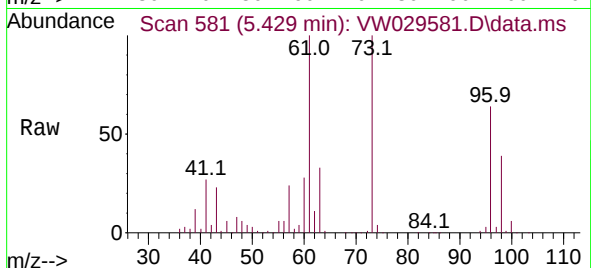
Tgt Ion: 96 Resp: 300657

Ion Ratio Lower Upper

96 100

61 157.1 102.9 191.1

98 62.0 43.9 81.5



#18

Methyl tert-butyl Ether

Concen: 86.859 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.006 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

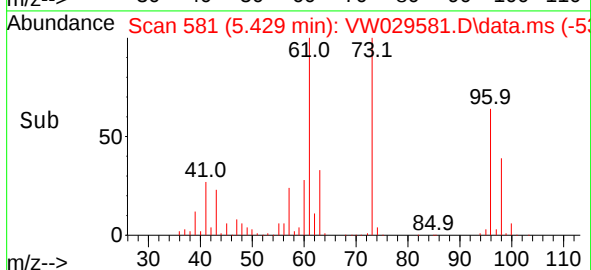
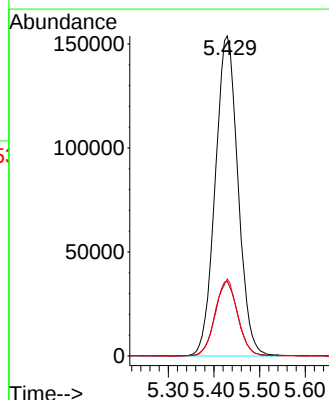
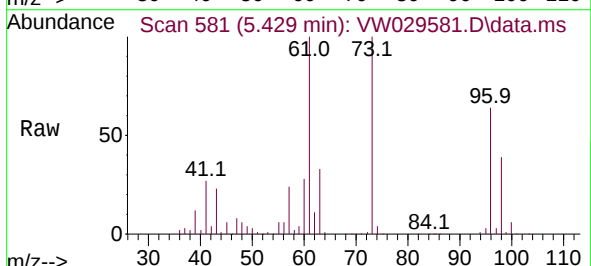
Tgt Ion: 73 Resp: 533192

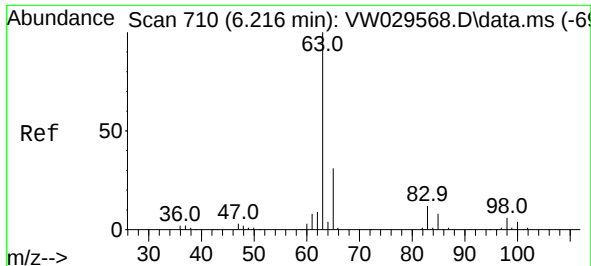
Ion Ratio Lower Upper

73 100

43 23.4 18.7 28.1

57 23.4 18.9 28.3





#19

1,1-Dichloroethane

Concen: 26.612 ug/L

RT: 6.216 min Scan# 710

Delta R.T. -0.000 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

ClientSampleId :

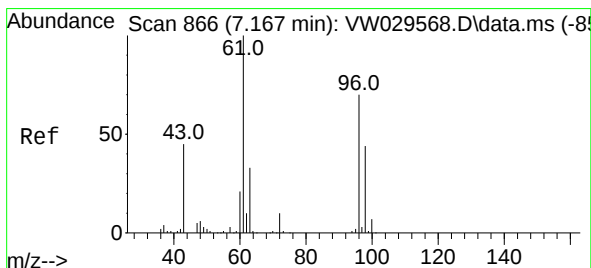
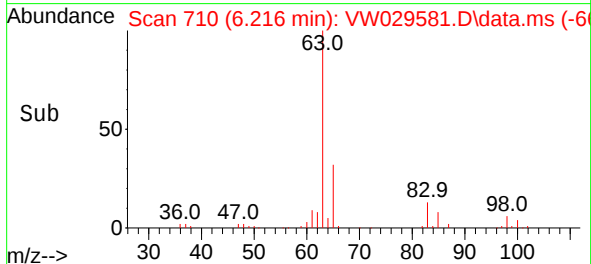
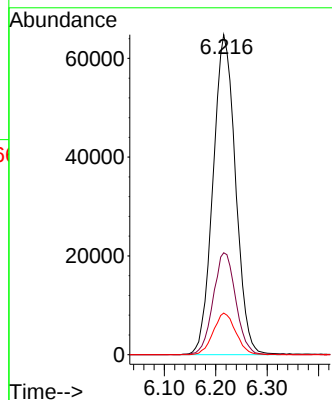
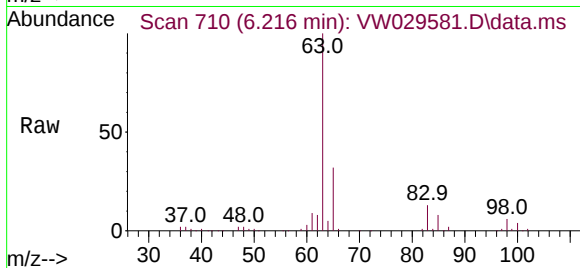
Tgt Ion: 63 Resp: 197174

Ion Ratio Lower Upper

63 100

65 31.8 21.5 39.9

83 13.0 8.7 16.1



#20

cis-1,2-Dichloroethene

Concen: 47.057 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.000 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

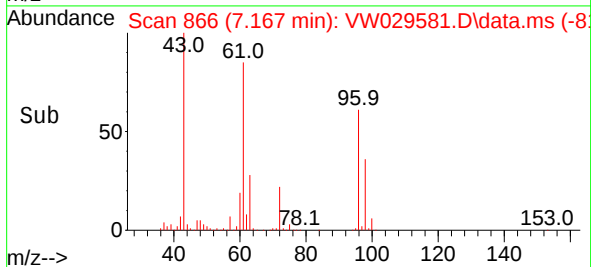
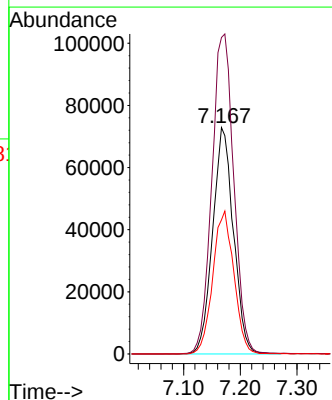
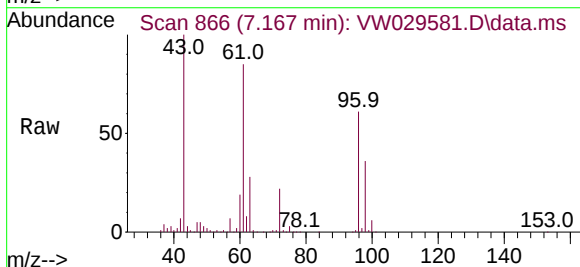
Tgt Ion: 96 Resp: 185652

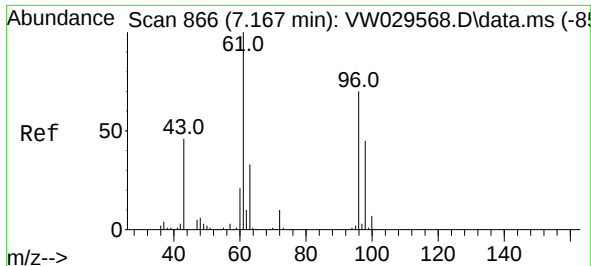
Ion Ratio Lower Upper

96 100

61 139.8 97.4 180.8

98 59.2 41.6 77.2





#22

2-Butanone

Concen: 188.945 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.000 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

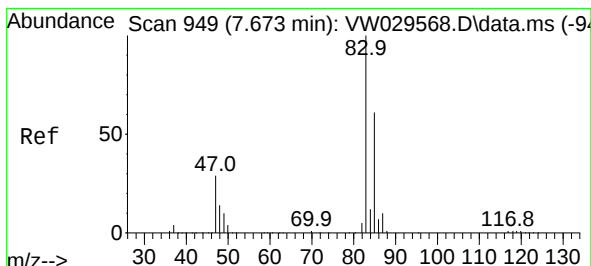
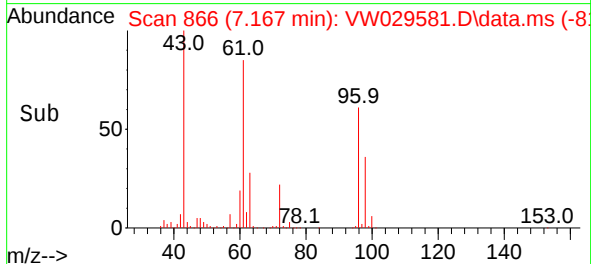
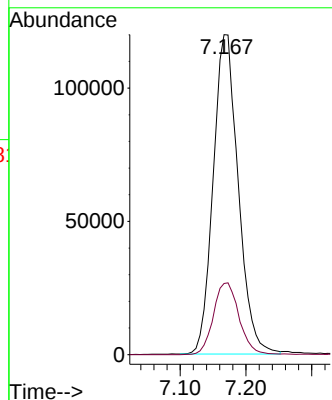
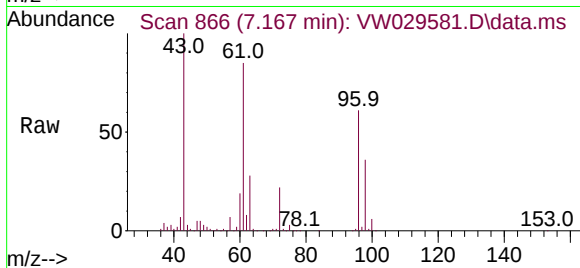
ClientSampleId :

Tgt Ion: 43 Resp: 318172

Ion Ratio Lower Upper

43 100

72 23.0 12.0 36.1



#25

Chloroform

Concen: 30.851 ug/L

RT: 7.673 min Scan# 949

Delta R.T. -0.000 min

Lab File: VW029581.D

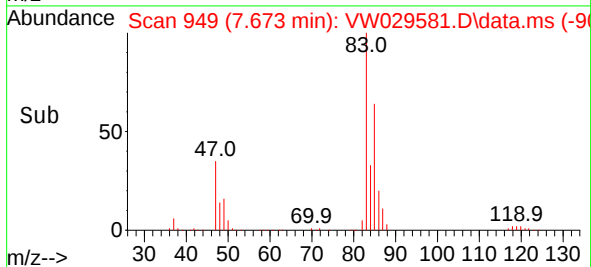
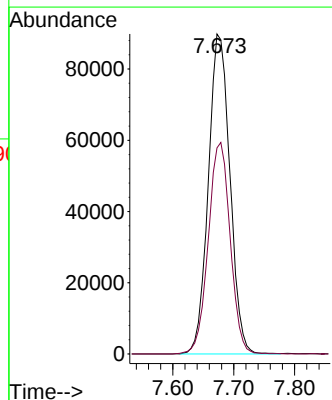
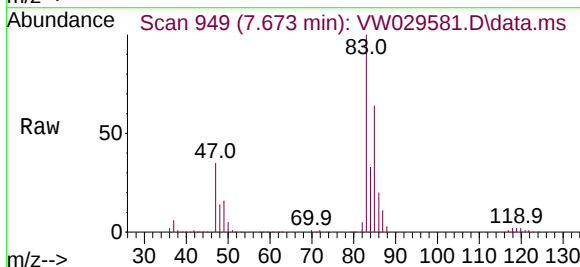
Acq: 15 Jul 2024 17:38

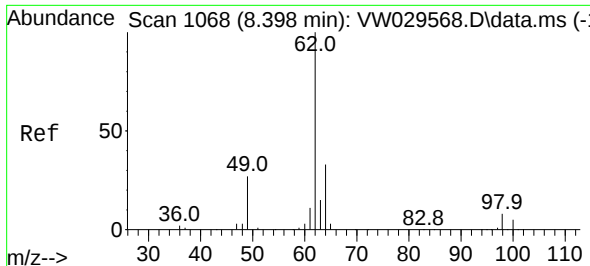
Tgt Ion: 83 Resp: 221171

Ion Ratio Lower Upper

83 100

85 64.4 44.1 81.9





#27

1,2-Dichloroethane

Concen: 66.639 ug/L

RT: 8.398 min Scan# 1068

Delta R.T. -0.000 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

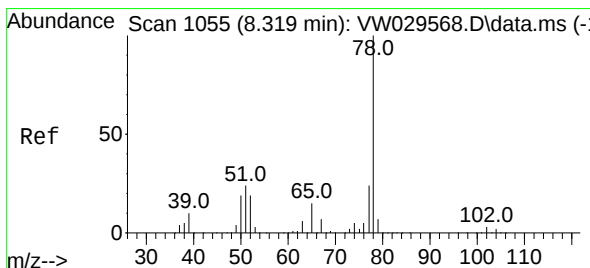
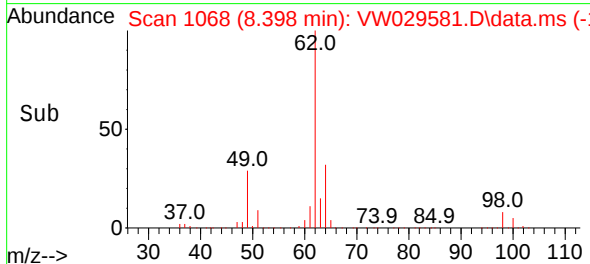
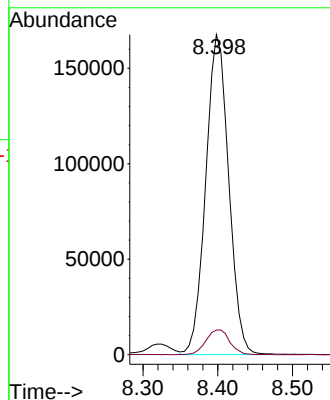
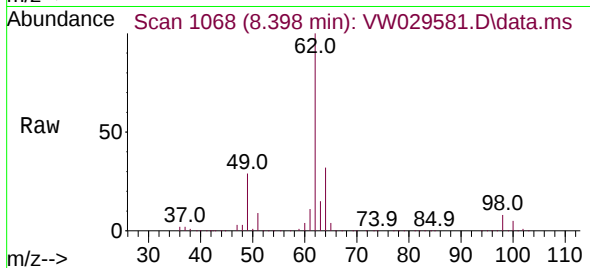
ClientSampleId :

Tgt Ion: 62 Resp: 358326

Ion Ratio Lower Upper

62 100

98 7.7 6.0 9.0



#33

Benzene

Concen: 81.618 ug/L

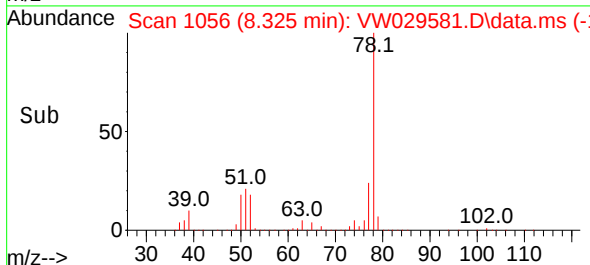
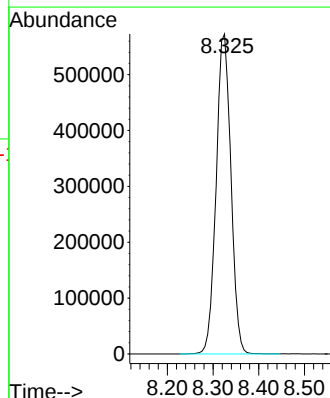
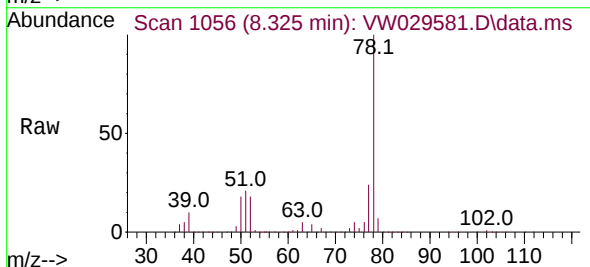
RT: 8.325 min Scan# 1056

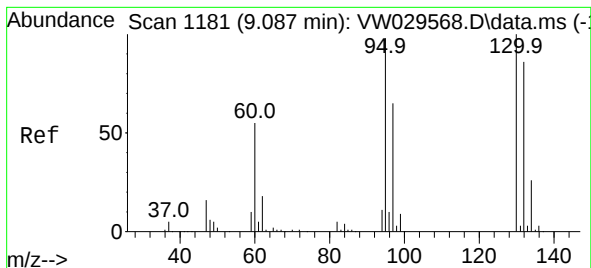
Delta R.T. 0.006 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Tgt Ion: 78 Resp: 1286546





#34

Trichloroethene

Concen: 94.386 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.000 min

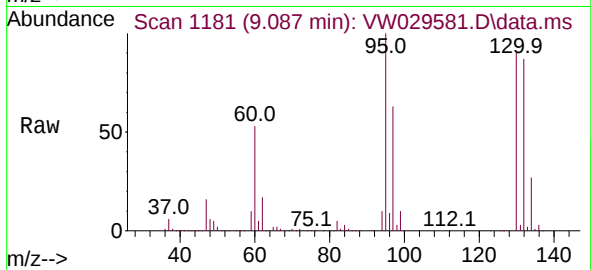
Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 392894

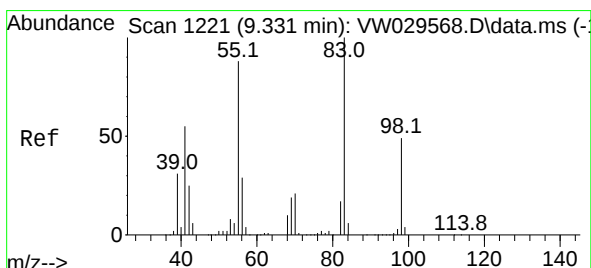
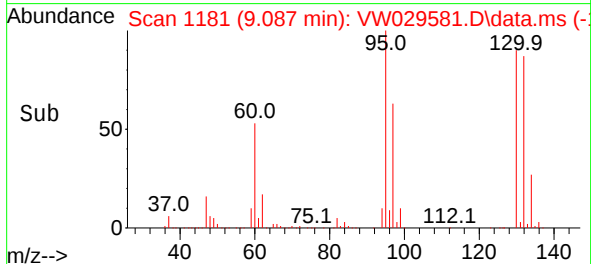
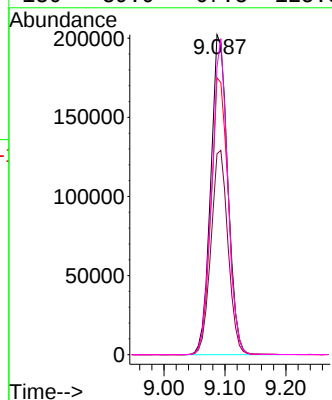
Ion Ratio Lower Upper

95 100

97 62.7 47.3 87.9

132 86.5 65.8 122.2

130 89.9 67.8 125.8



#35

Methylcyclohexane

Concen: 0.431 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. 0.036 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

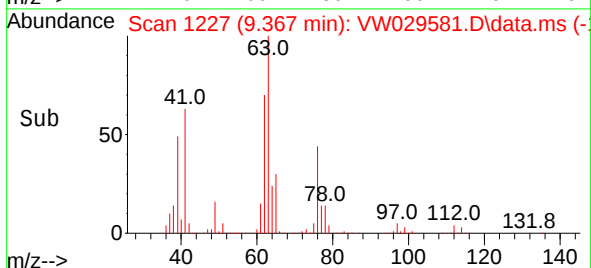
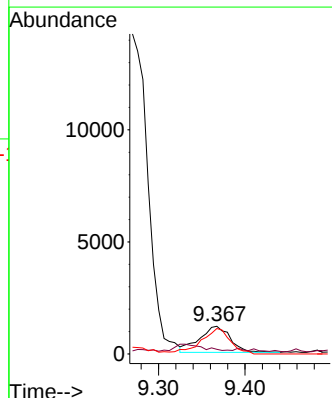
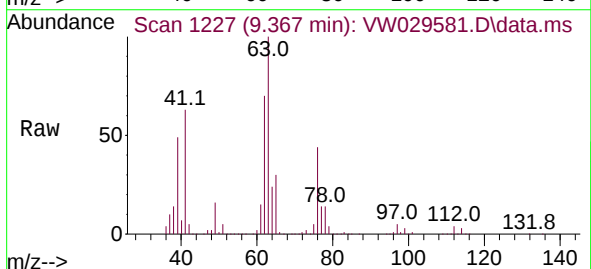
Tgt Ion: 83 Resp: 2883

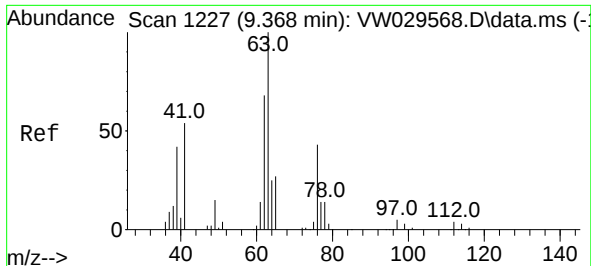
Ion Ratio Lower Upper

83 100

55 4.5 69.6 104.4#

98 92.1 38.3 57.5#





#37

1,2-Dichloropropane

Concen: 92.175 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

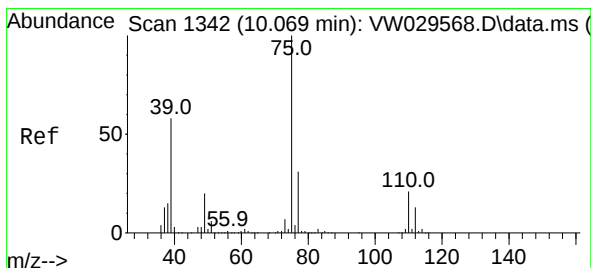
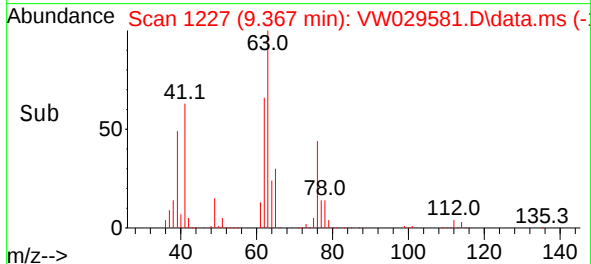
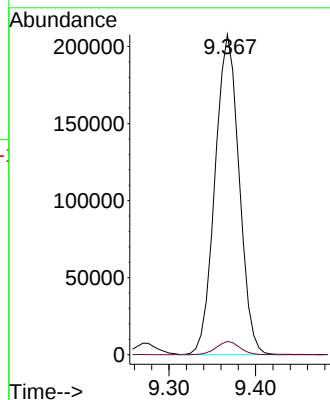
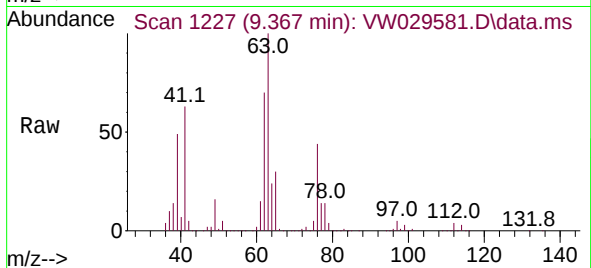
ClientSampleId :

Tgt Ion: 63 Resp: 401784

Ion Ratio Lower Upper

63 100

112 4.0 3.3 4.9



#39

cis-1,3-Dichloropropene

Concen: 47.393 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW029581.D

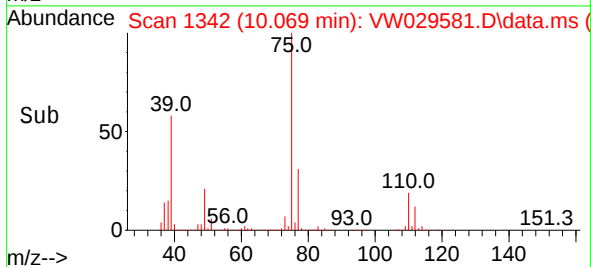
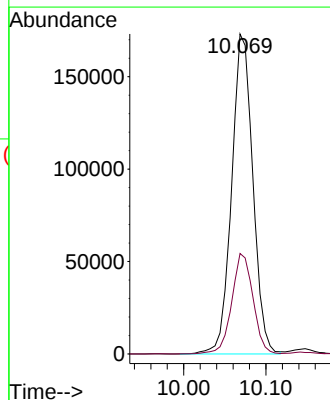
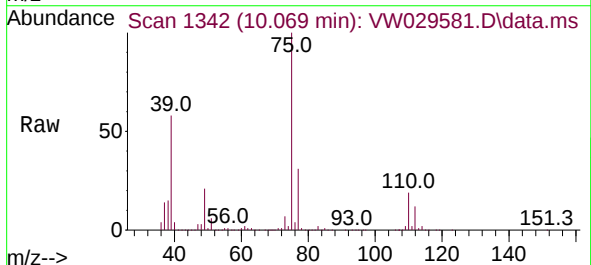
Acq: 15 Jul 2024 17:38

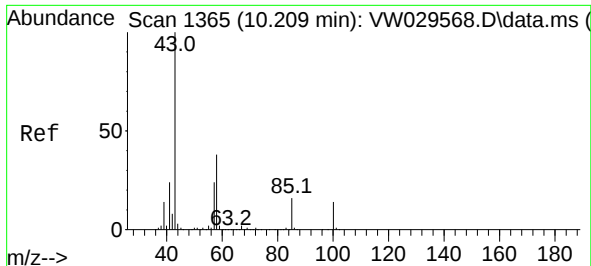
Tgt Ion: 75 Resp: 310281

Ion Ratio Lower Upper

75 100

77 31.4 22.2 41.2





#40

4-Methyl-2-pentanone

Concen: 91.658 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

ClientSampleId :

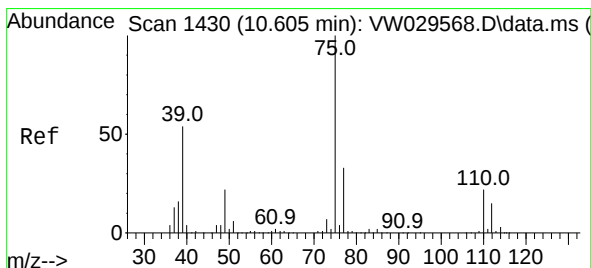
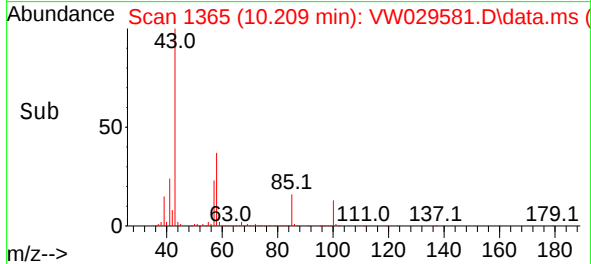
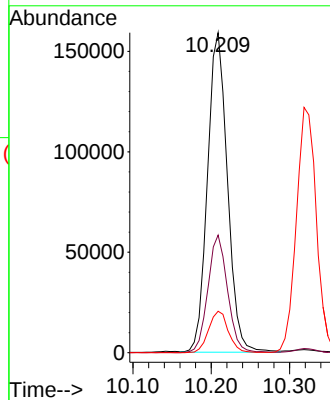
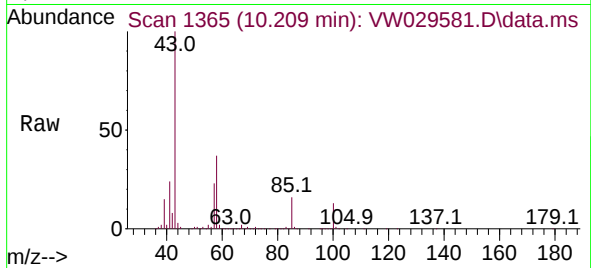
Tgt Ion: 43 Resp: 281577

Ion Ratio Lower Upper

43 100

58 36.1 29.0 43.6

100 12.8 10.5 15.7



#44

trans-1,3-Dichloropropene

Concen: 38.876 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW029581.D

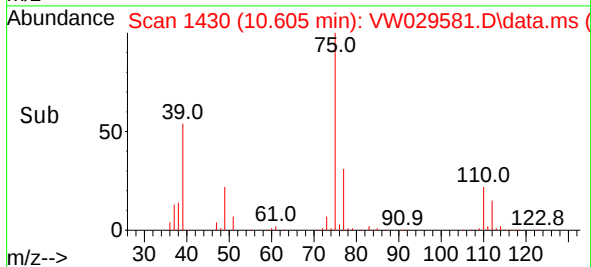
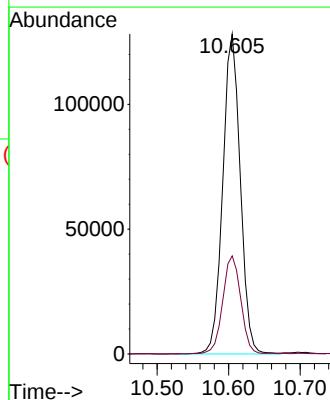
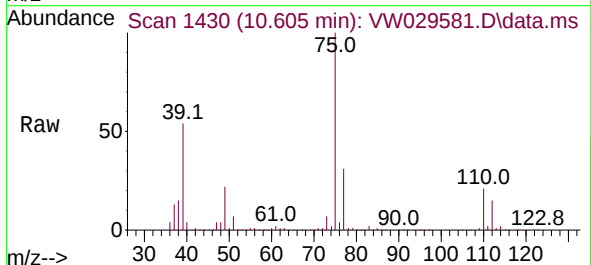
Acq: 15 Jul 2024 17:38

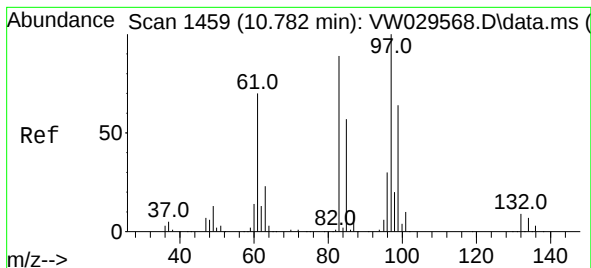
Tgt Ion: 75 Resp: 218148

Ion Ratio Lower Upper

75 100

77 30.6 22.4 41.6





#45

1,1,2-Trichloroethane

Concen: 0.400 ug/L

RT: 10.788 min Scan# 1459

Delta R.T. 0.006 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 1254

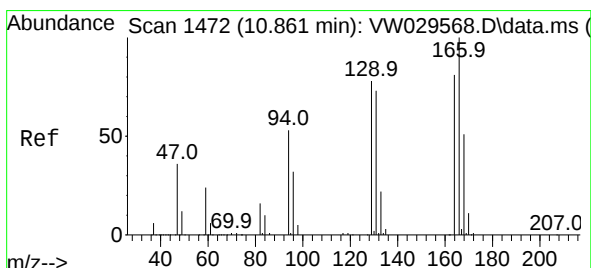
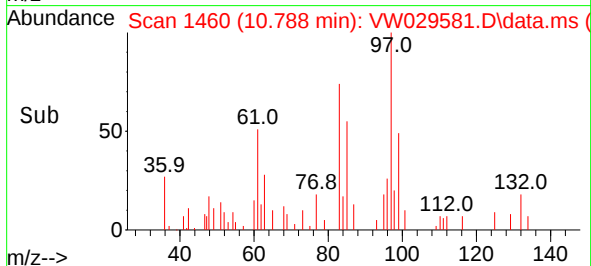
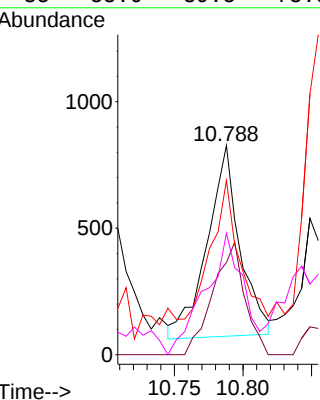
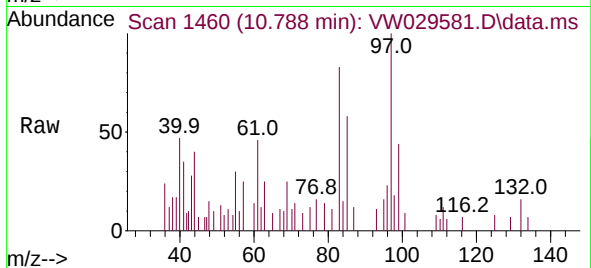
Ion Ratio Lower Upper

97 100

99 44.0 43.8 81.4

83 83.3 60.3 111.9

85 58.0 39.5 73.3



#46

Tetrachloroethene

Concen: 24.908 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Tgt Ion:164 Resp: 73662

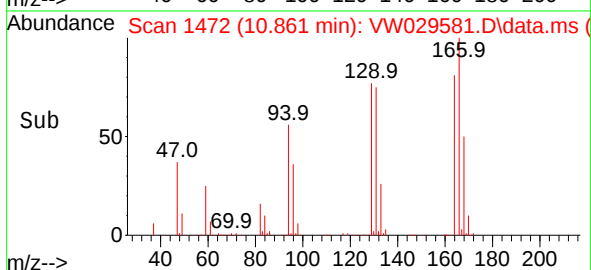
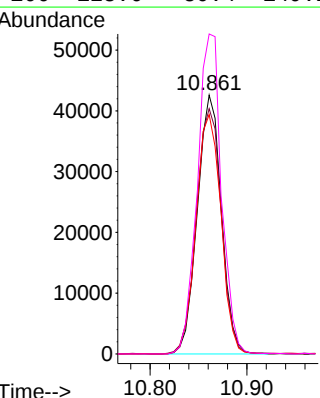
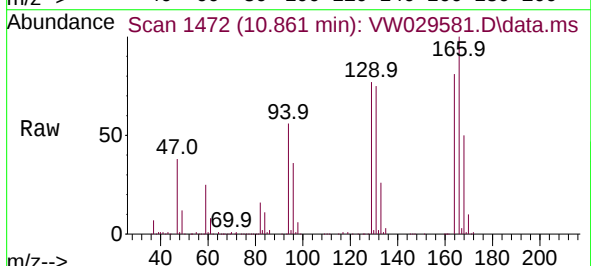
Ion Ratio Lower Upper

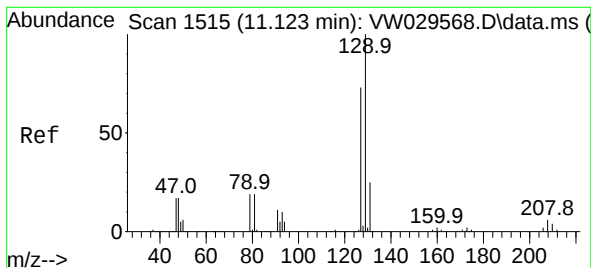
164 100

129 94.8 60.0 111.4

131 92.5 64.6 120.0

166 123.6 80.4 149.2





#49

Dibromochloromethane

Concen: 40.205 ug/L

RT: 11.129 min Scan# 1515

Delta R.T. 0.006 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

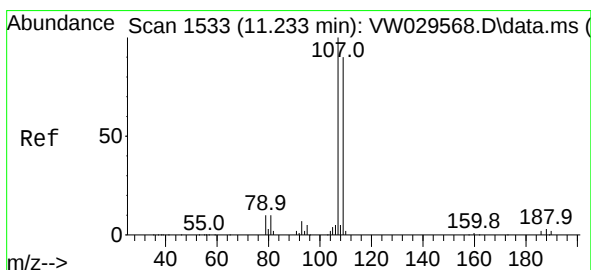
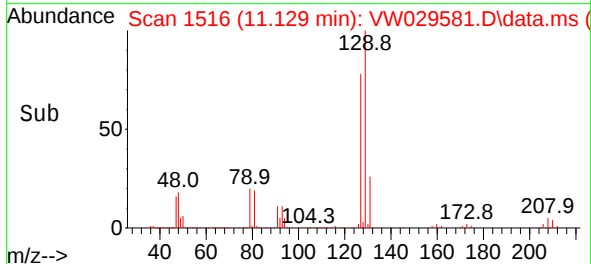
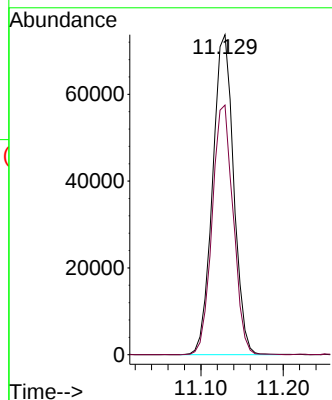
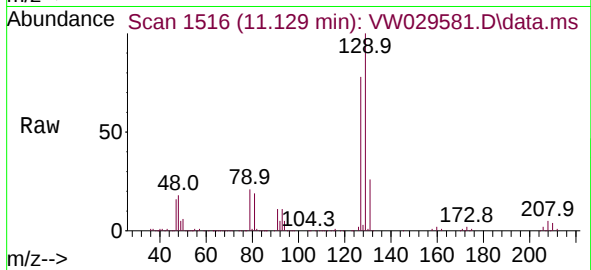
ClientSampleId :

Tgt Ion:129 Resp: 131165

Ion Ratio Lower Upper

129 100

127 78.0 51.9 96.3



#50

1,2-Dibromoethane

Concen: 75.000 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

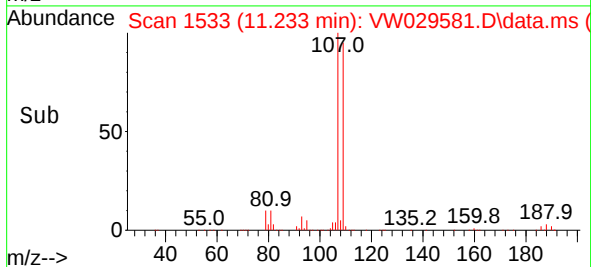
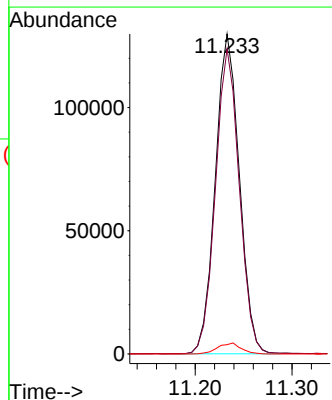
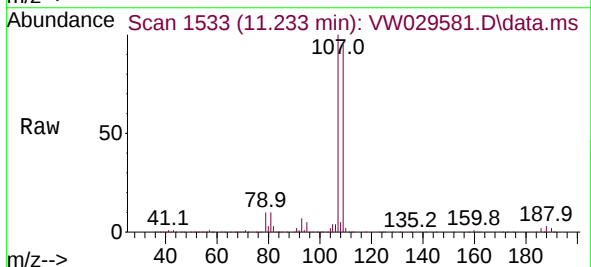
Tgt Ion:107 Resp: 224054

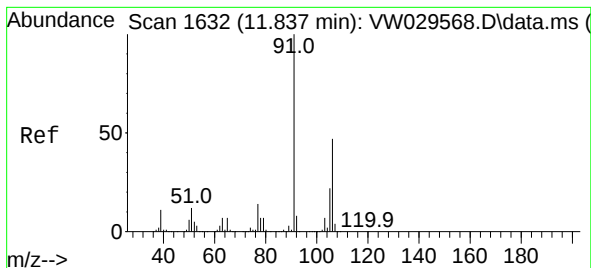
Ion Ratio Lower Upper

107 100

109 95.3 63.2 117.4

188 2.9 2.9 4.3

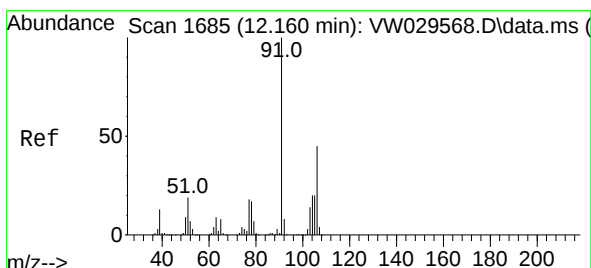
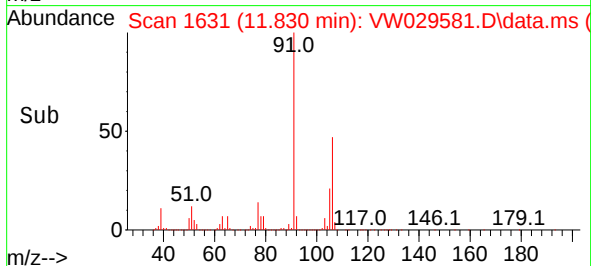
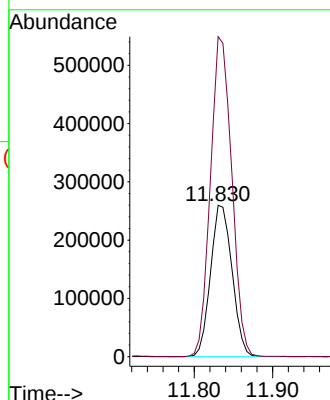
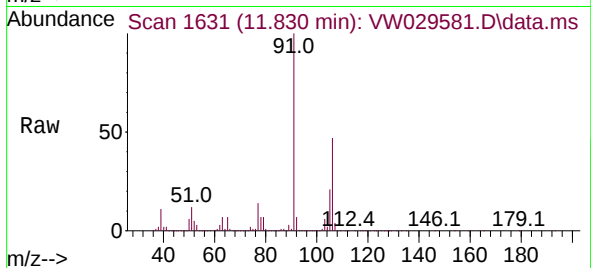




#53
m,p-Xylene
Concen: 73.904 ug/L
RT: 11.830 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW029581.D
Acq: 15 Jul 2024 17:38

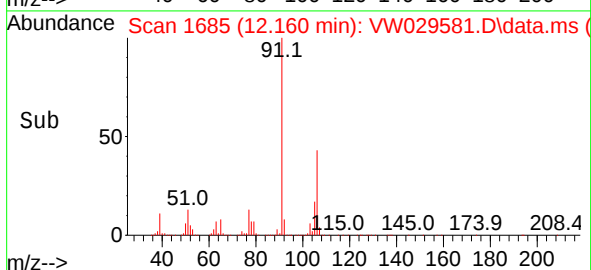
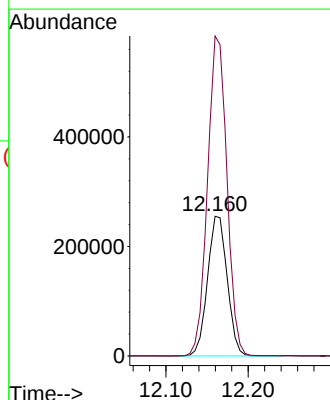
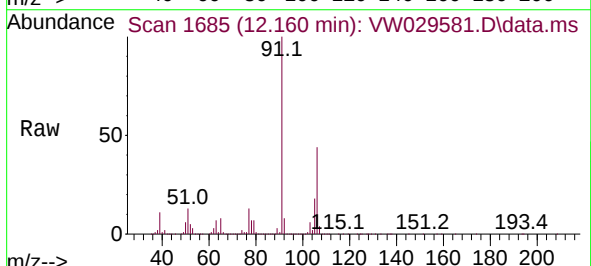
Instrument :
MSVOA_W
ClientSampleId :

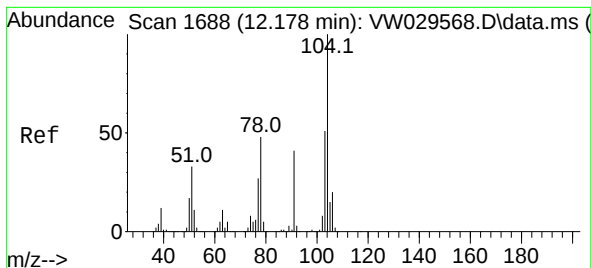
Tgt Ion:106 Resp: 495677
Ion Ratio Lower Upper
106 100
91 211.5 149.3 277.3



#54
o-Xylene
Concen: 68.303 ug/L
RT: 12.160 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VW029581.D
Acq: 15 Jul 2024 17:38

Tgt Ion:106 Resp: 423717
Ion Ratio Lower Upper
106 100
91 229.1 159.2 295.6





#55

Styrene

Concen: 1.958 ug/L

RT: 12.166 min Scan# 1

Delta R.T. -0.012 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

Instrument :

MSVOA_W

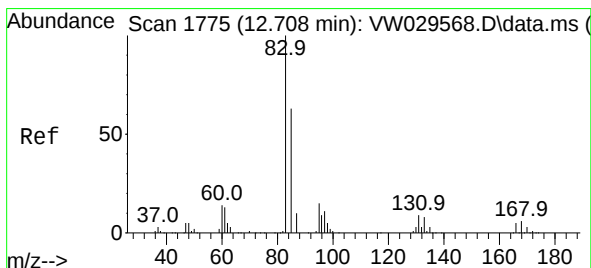
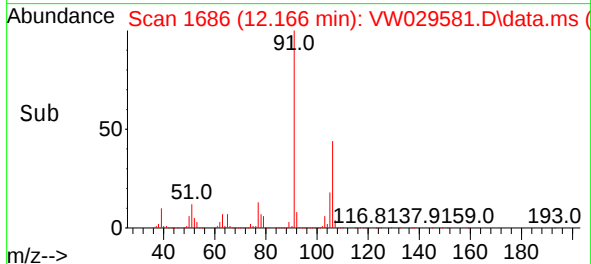
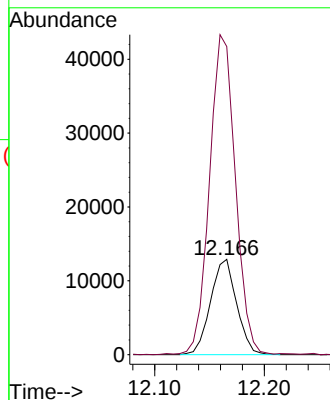
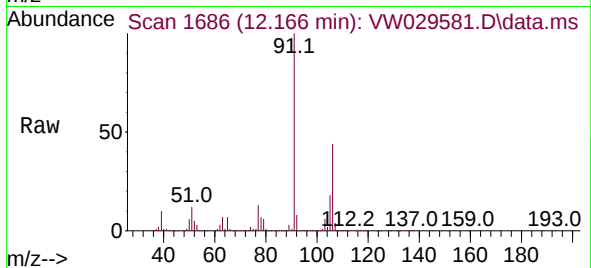
ClientSampleId :

Tgt Ion:104 Resp: 21361

Ion Ratio Lower Upper

104 100

78 323.1 34.7 64.5#



#57

1,1,2,2-Tetrachloroethane

Concen: 56.030 ug/L

RT: 12.714 min Scan# 1776

Delta R.T. 0.006 min

Lab File: VW029581.D

Acq: 15 Jul 2024 17:38

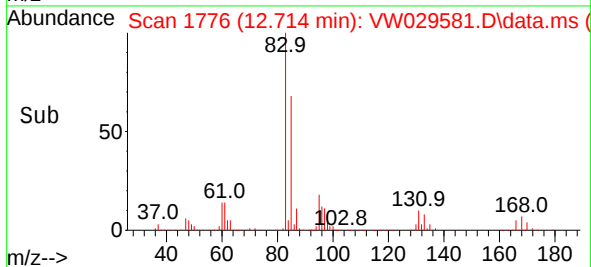
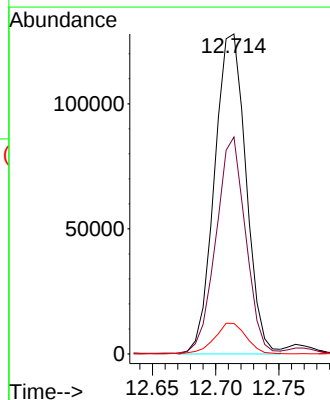
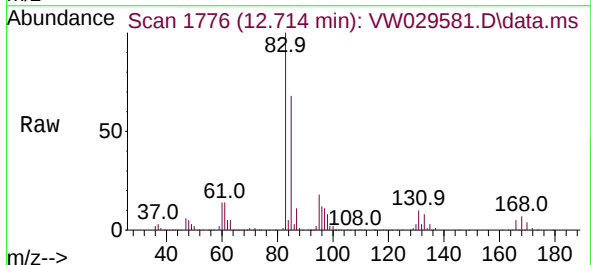
Tgt Ion: 83 Resp: 221563

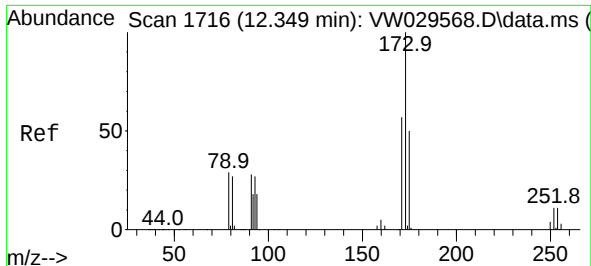
Ion Ratio Lower Upper

83 100

85 67.8 45.4 84.4

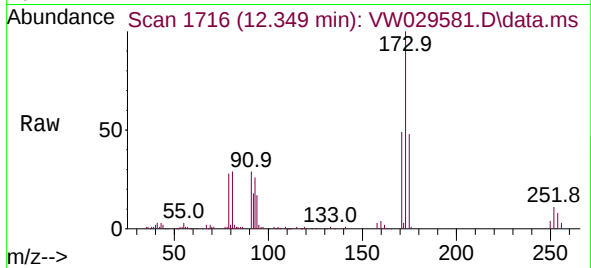
131 9.6 6.4 9.6



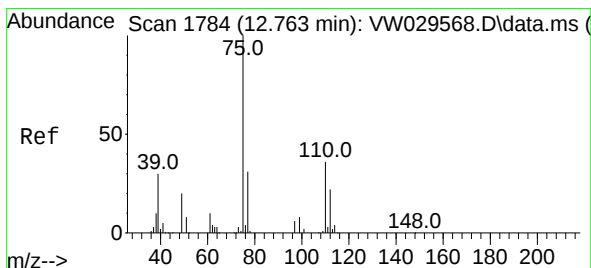
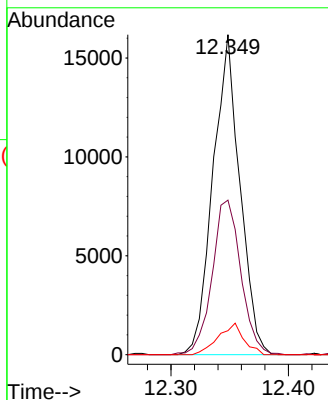
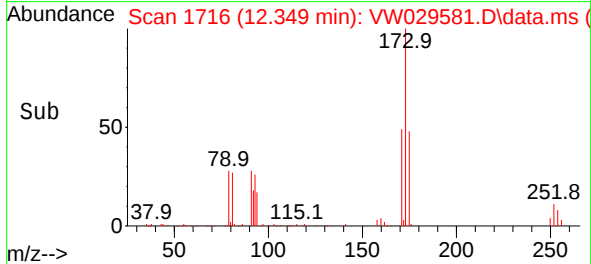


#59
Bromoform
Concen: 13.352 ug/L
RT: 12.349 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VW029581.D
Acq: 15 Jul 2024 17:38

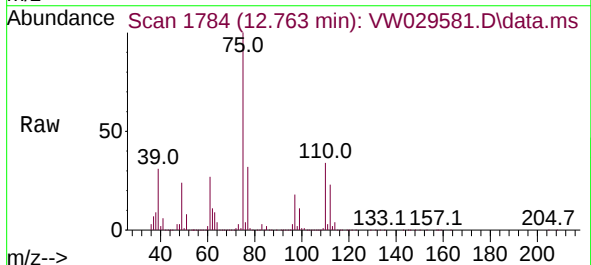
Instrument :
MSVOA_W
ClientSampleId :



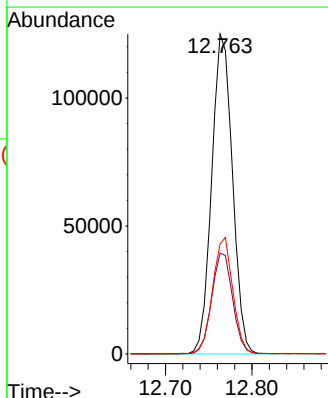
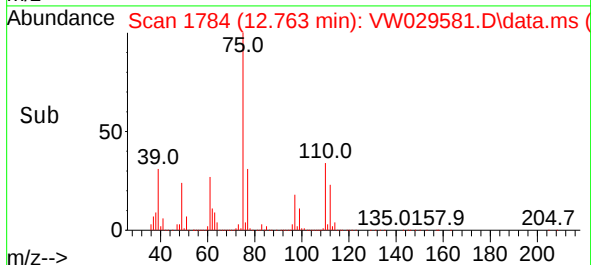
Tgt Ion:173 Resp: 25710
Ion Ratio Lower Upper
173 100
175 51.6 40.4 60.6
254 9.4 8.8 13.2

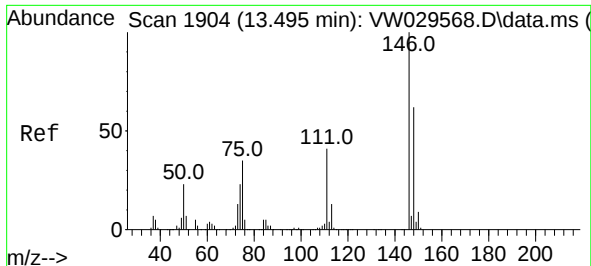


#61
1,2,3-Trichloropropane
Concen: 68.913 ug/L
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW029581.D
Acq: 15 Jul 2024 17:38



Tgt Ion: 75 Resp: 208041
Ion Ratio Lower Upper
75 100
77 31.5 25.5 38.3
110 35.3 29.1 43.7

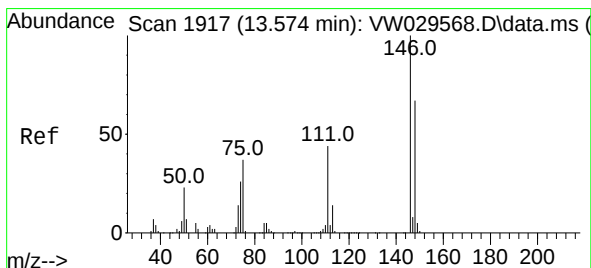
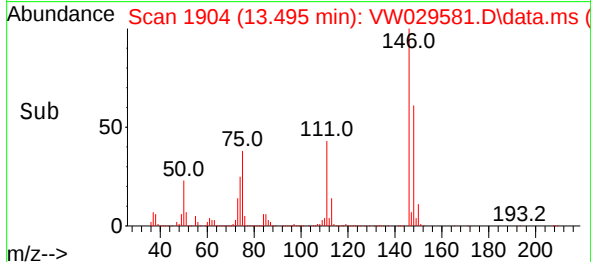
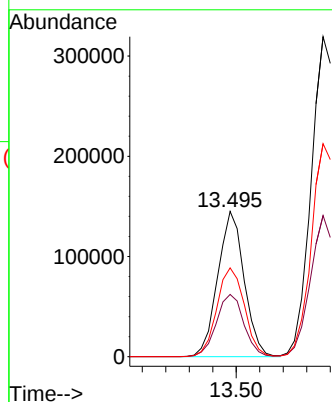
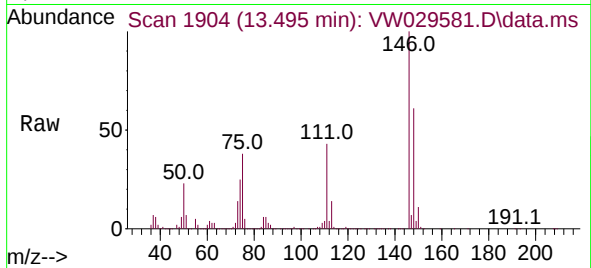




#64
1,3-Dichlorobenzene
Concen: 28.801 ug/L
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW029581.D
Acq: 15 Jul 2024 17:38

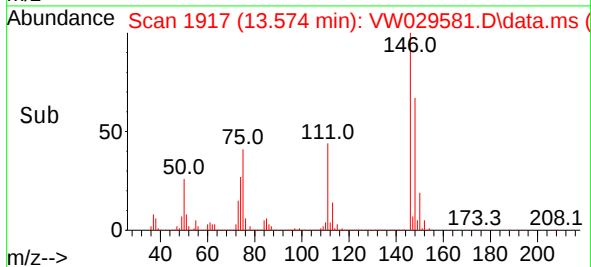
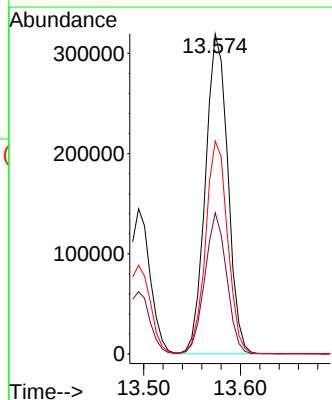
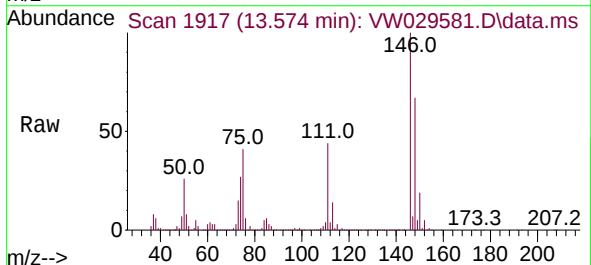
Instrument :
MSVOA_W
ClientSampleId :

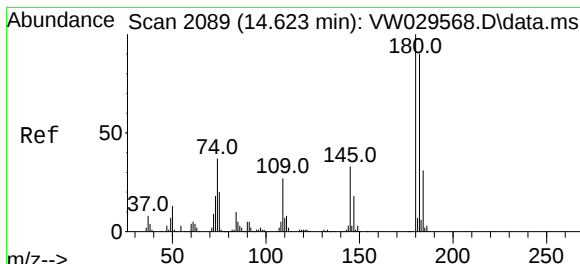
Tgt Ion:146 Resp: 226578
Ion Ratio Lower Upper
146 100
111 42.8 28.6 53.2
148 61.2 43.0 80.0



#65
1,4-Dichlorobenzene
Concen: 63.785 ug/L
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW029581.D
Acq: 15 Jul 2024 17:38

Tgt Ion:146 Resp: 514076
Ion Ratio Lower Upper
146 100
111 44.1 27.6 51.4
148 66.6 40.9 75.9

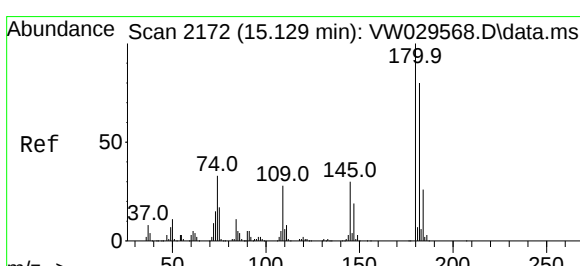
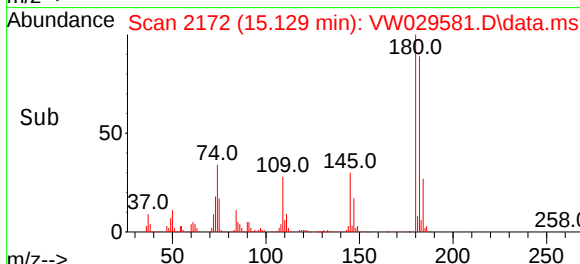
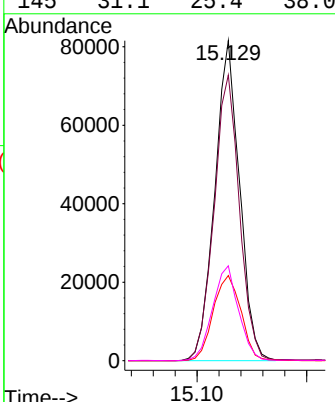
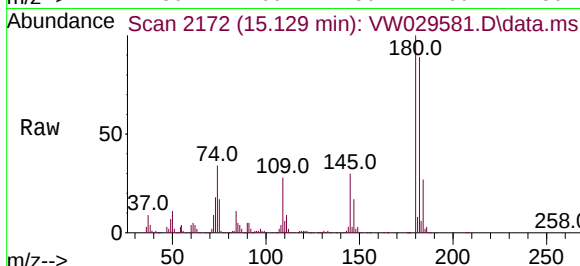




#69
 1,3,5-Trichlorobenzene
 Concen: 24.952 ug/L
 RT: 15.129 min Scan# 2172
 Delta R.T. 0.506 min
 Lab File: VW029581.D
 Acq: 15 Jul 2024 17:38

Instrument :
 MSVOA_W
 ClientSampleId :

Tgt Ion:	180	Resp:	128058
Ion Ratio	Lower	Upper	
180	100		
182	91.4	77.9	116.9
184	29.8	24.4	36.6
145	31.1	25.4	38.0



#70
 1,2,4-trichlorobenzene
 Concen: 28.358 ug/L
 RT: 15.129 min Scan# 2172
 Delta R.T. -0.000 min
 Lab File: VW029581.D
 Acq: 15 Jul 2024 17:38

Tgt Ion:	180	Resp:	128058
Ion Ratio	Lower	Upper	
180	100		
182	91.4	74.7	112.1
145	31.1	26.2	39.2

