

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW042924\
 Data File : VW035468.D
 Acq On : 29 Apr 2024 14:09
 Operator : SY/MD
 Sample : P2279-04
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 30 02:11:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM042624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 30 02:09:05 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.564	114	44	50.000	ug/L	# 0.04
28) Chlorobenzene-d5	8.812	117	1795	50.000	ug/L	0.03
58) 1,4-Dichlorobenzene-d4	11.197	152	3867	50.000	ug/L	0.01
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	457	1292.396	ug/L	0.00
Spiked Amount	50.000	Range 60 - 135	Recovery	= 2584.800%#		
7) Chloroethane-d5	1.529	69	501	2472.864	ug/L	0.00
Spiked Amount	50.000	Range 70 - 130	Recovery	= 4945.720%#		
11) 1,1-Dichloroethene-d2	2.050	65	408	2823.081	ug/L	0.00
Spiked Amount	50.000	Range 60 - 125	Recovery	= 5646.160%#		
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	100.000	Range 40 - 130	Recovery	= 0.000%#		
24) Chloroform-d	4.265	84	263	442.006	ug/L	0.02
Spiked Amount	50.000	Range 70 - 125	Recovery	= 884.020%#		
26) 1,2-Dichloroethane-d4	4.992	65	170	490.520	ug/L	0.05
Spiked Amount	50.000	Range 70 - 125	Recovery	= 981.040%#		
32) Benzene-d6	4.976	84	142	3.010	ug/L	0.02
Spiked Amount	50.000	Range 70 - 125	Recovery	= 6.020%#		
36) 1,2-Dichloropropane-d6	0.000	67	0	0.000	ug/L	
Spiked Amount	50.000	Range 70 - 120	Recovery	= 0.000%#		
41) Toluene-d8	7.281	98	1064	25.025	ug/L	0.04
Spiked Amount	50.000	Range 80 - 120	Recovery	= 50.060%#		
43) trans-1,3-Dichloroprop...	7.612	79	64	9.400	ug/L	0.06
Spiked Amount	50.000	Range 60 - 125	Recovery	= 18.800%#		
47) 2-Hexanone-d5	0.000	63	0	0.000	ug/L	
Spiked Amount	100.000	Range 45 - 130	Recovery	= 0.000%#		
56) 1,1,2,2-Tetrachloroeth...	10.162	84	793	38.229	ug/L	0.01
Spiked Amount	50.000	Range 65 - 120	Recovery	= 76.460%		
66) 1,2-Dichlorobenzene-d4	11.570	152	3518	51.999	ug/L	0.01
Spiked Amount	50.000	Range 80 - 120	Recovery	= 104.000%		
Target Compounds						Qvalue
3) Chloromethane	1.214	50	2876	8761.459	ug/L	99
5) Vinyl chloride	1.535	62	66	190.595	ug/L #	1
6) Bromomethane	1.487	94	642	3165.555	ug/L	97
8) Chloroethane	1.545	64	186	1216.734	ug/L #	64
12) 1,1-Dichloroethene	2.024	96	47	180.794	ug/L #	1
13) Acetone	2.121	43	667	3097.235	ug/L #	1
14) Carbon disulfide	2.230	76	260	360.057	ug/L #	1
15) Methyl Acetate	2.355	43	47	143.909	ug/L #	49
16) Methylene chloride	2.442	84	323	982.398	ug/L #	67
18) Methyl tert-butyl Ether	2.706	73	300	318.696	ug/L #	70
22) 2-Butanone	3.899	43	44	184.685	ug/L #	47
25) Chloroform	4.297	83	561	938.101	ug/L	97
31) Carbon tetrachloride	4.741	117	66	3.699	ug/L	97
33) Benzene	5.066	78	64	1.332	ug/L	100
51) Chlorobenzene	8.841	112	614	17.300	ug/L #	72
61) 1,2,3-Trichloropropane	11.136	75	539	7.447	ug/L #	55
64) 1,3-Dichlorobenzene	11.136	146	2139	18.612	ug/L	96
65) 1,4-Dichlorobenzene	11.217	146	462	3.833	ug/L	87
67) 1,2-Dichlorobenzene	11.590	146	1298	11.147	ug/L	93

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Quant Title : VOC Analysis
QLast Update : Tue Apr 30 02:09:05 2024
Response via : Initial Calibration

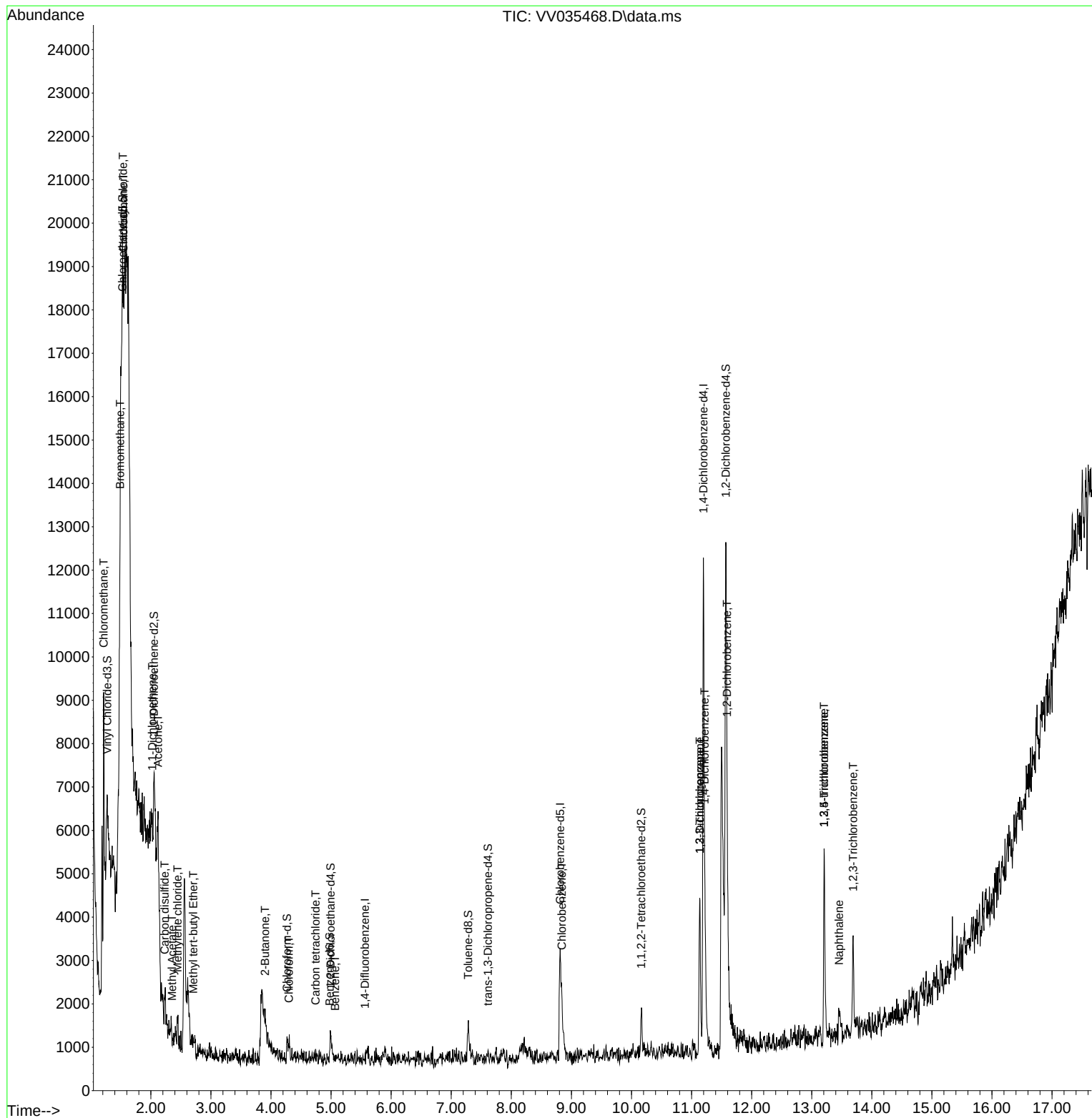
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) 1,3,5-Trichlorobenzene	13.204	180	1828	22.449	ug/L	96
70) 1,2,4-trichlorobenzene	13.204	180	1828	28.279	ug/L #	97
71) Naphthalene	13.455	128	489	3.468	ug/L #	80
72) 1,2,3-Trichlorobenzene	13.689	180	994	15.781	ug/L #	55

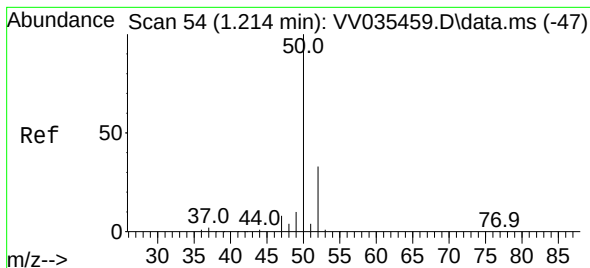
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM042624WMA.M
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#3

Chloromethane

Concen: 8761.459 ug/L

RT: 1.214 min Scan# 54

Delta R.T. -0.000 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Instrument :

MSVOA_V

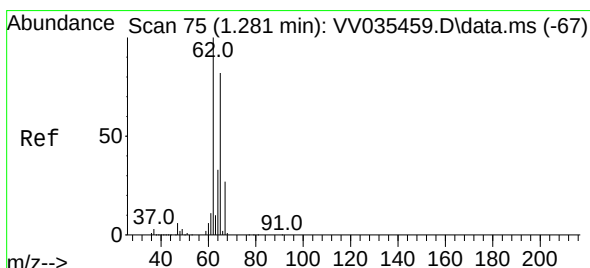
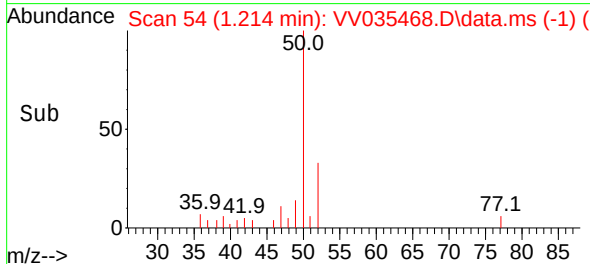
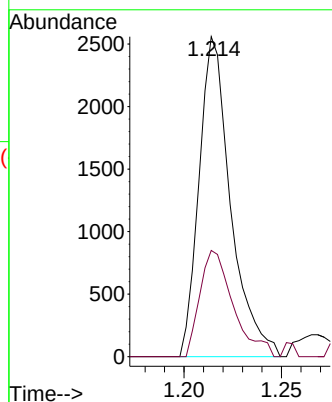
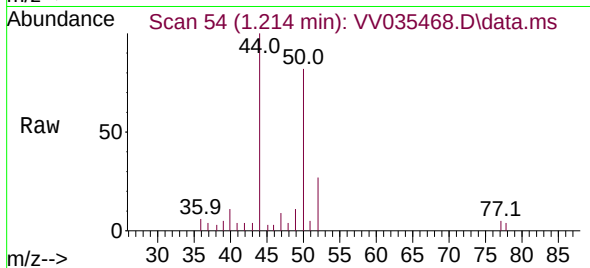
ClientSampleId :

Tgt Ion: 50 Resp: 2876

Ion Ratio Lower Upper

50 100

52 33.2 23.0 42.8



#5

Vinyl chloride

Concen: 190.595 ug/L

RT: 1.535 min Scan# 154

Delta R.T. 0.254 min

Lab File: VV035468.D

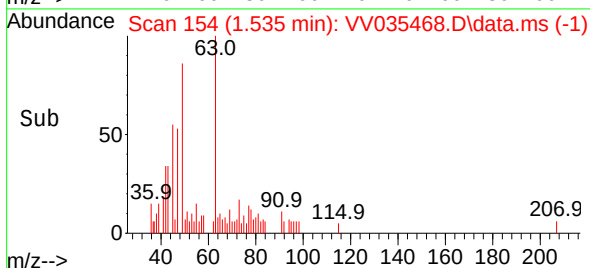
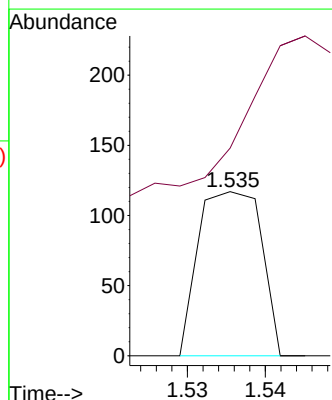
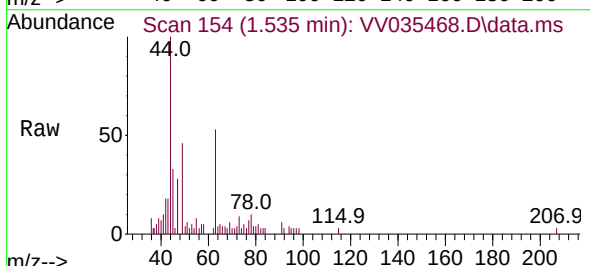
Acq: 29 Apr 2024 14:09

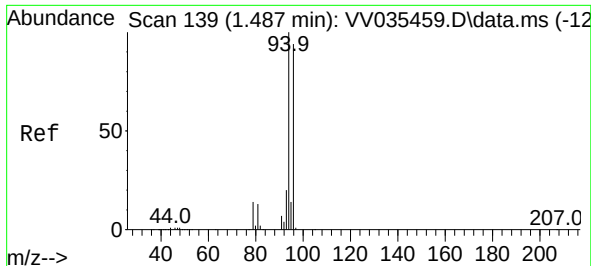
Tgt Ion: 62 Resp: 66

Ion Ratio Lower Upper

62 100

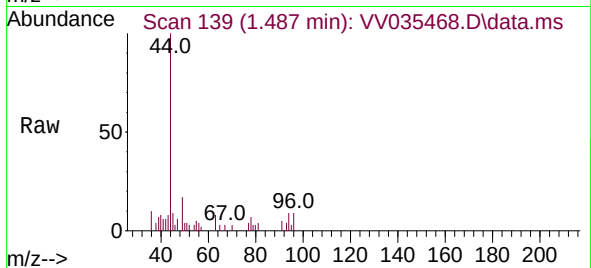
64 126.5 23.2 43.2#



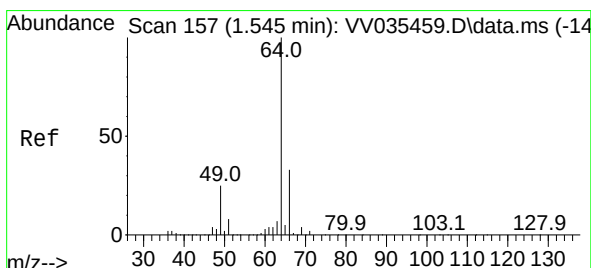
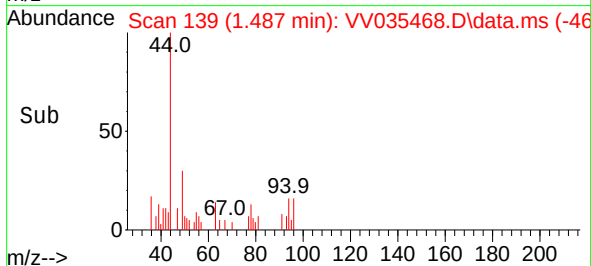
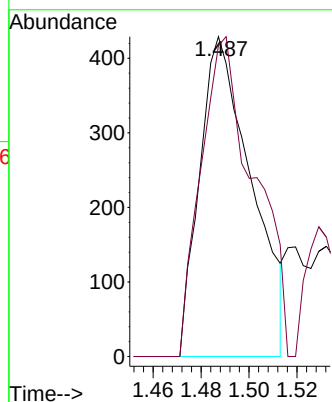


#6
Bromomethane
Concen: 3165.555 ug/L
RT: 1.487 min Scan# 139
Delta R.T. -0.000 min
Lab File: VV035468.D
Acq: 29 Apr 2024 14:09

Instrument :
MSVOA_V
ClientSampleId :

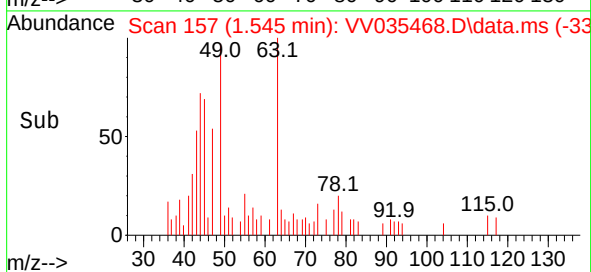
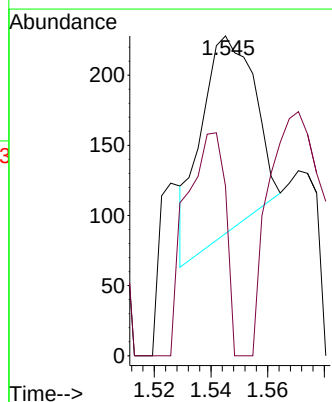
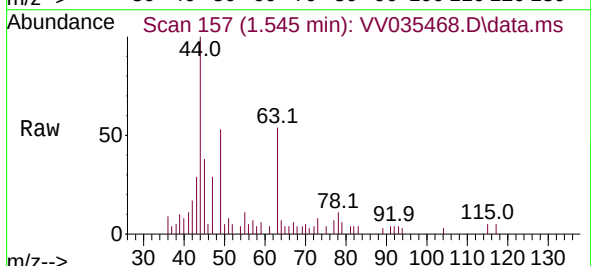


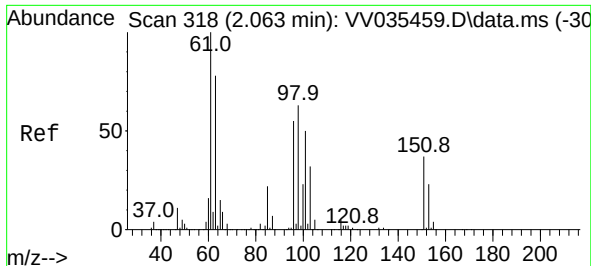
Tgt Ion: 94 Resp: 642
Ion Ratio Lower Upper
94 100
96 97.2 66.1 122.7



#8
Chloroethane
Concen: 1216.734 ug/L
RT: 1.545 min Scan# 157
Delta R.T. 0.000 min
Lab File: VV035468.D
Acq: 29 Apr 2024 14:09

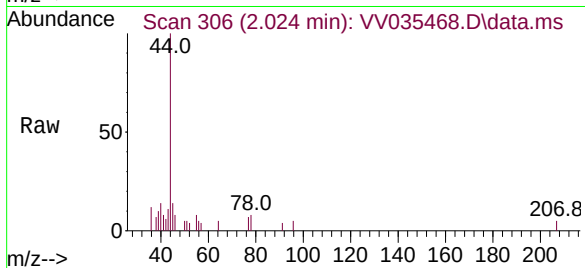
Tgt Ion: 64 Resp: 186
Ion Ratio Lower Upper
64 100
66 53.1 22.9 42.5#



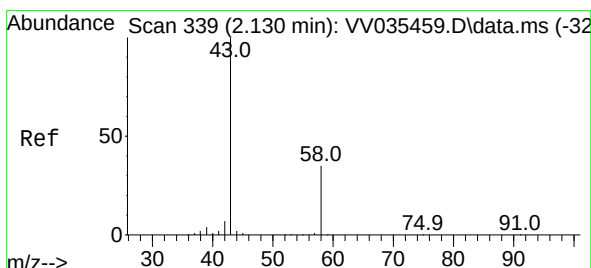
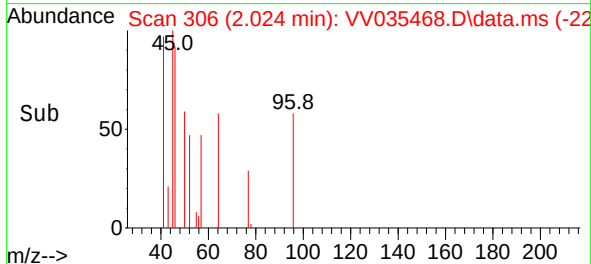
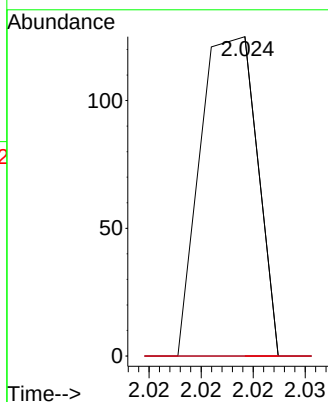


#12
1,1-Dichloroethene
Concen: 180.794 ug/L
RT: 2.024 min Scan# 306
Delta R.T. -0.039 min
Lab File: VV035468.D
Acq: 29 Apr 2024 14:09

Instrument :
MSVOA_V
ClientSampleId :

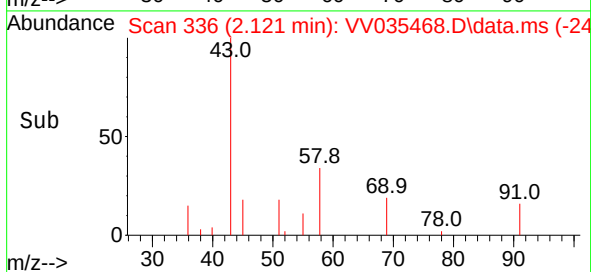
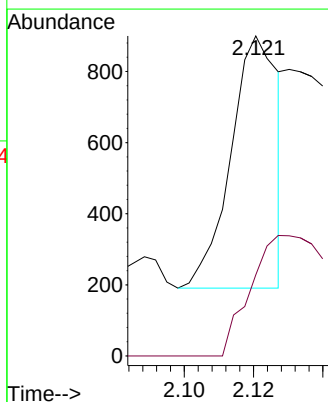
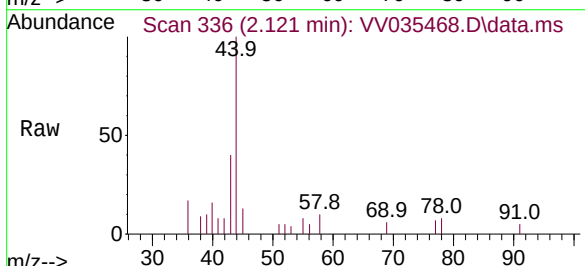


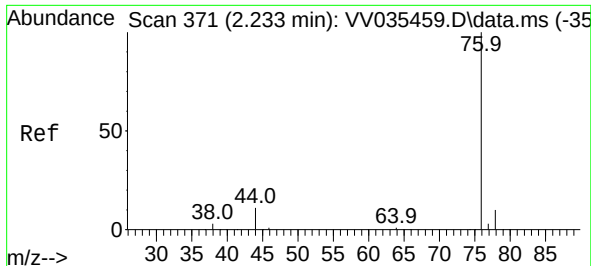
Tgt Ion: 96 Resp: 47
Ion Ratio Lower Upper
96 100
61 0.0 128.2 238.0#
63 0.0 96.9 179.9#



#13
Acetone
Concen: 3097.235 ug/L
RT: 2.121 min Scan# 336
Delta R.T. -0.010 min
Lab File: VV035468.D
Acq: 29 Apr 2024 14:09

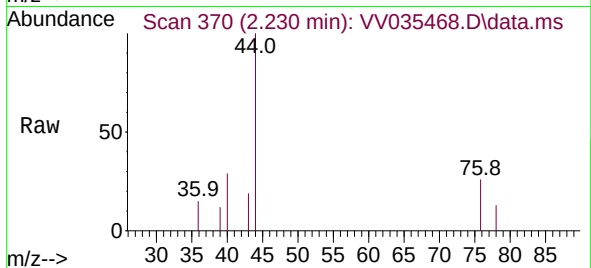
Tgt Ion: 43 Resp: 667
Ion Ratio Lower Upper
43 100
58 95.2 0.0 65.8#



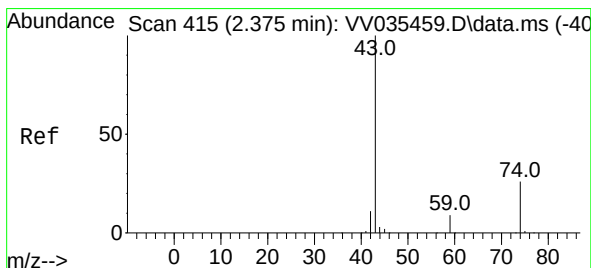
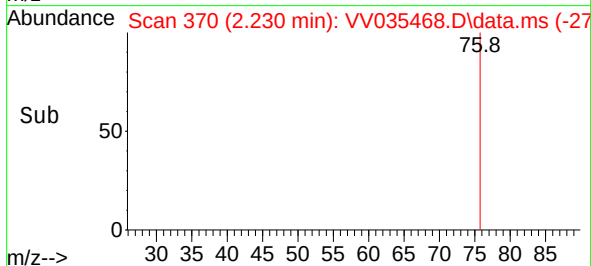
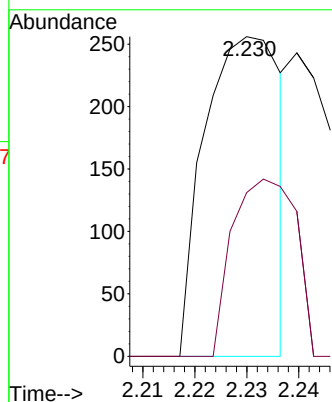


#14
Carbon disulfide
Concen: 360.057 ug/L
RT: 2.230 min Scan# 31
Delta R.T. -0.003 min
Lab File: VV035468.D
Acq: 29 Apr 2024 14:09

Instrument :
MSVOA_V
ClientSampleId :

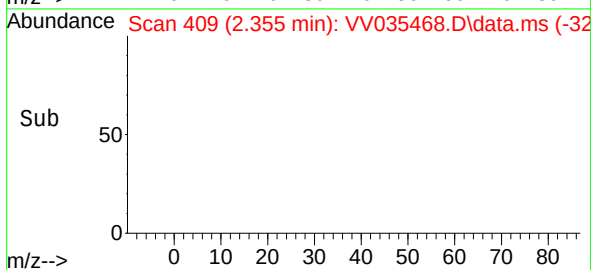
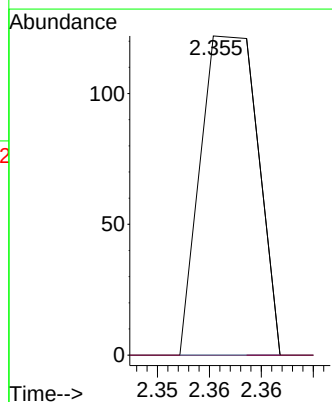
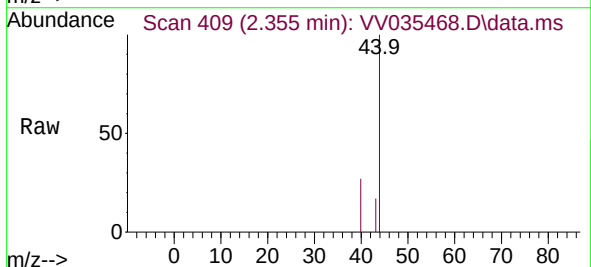


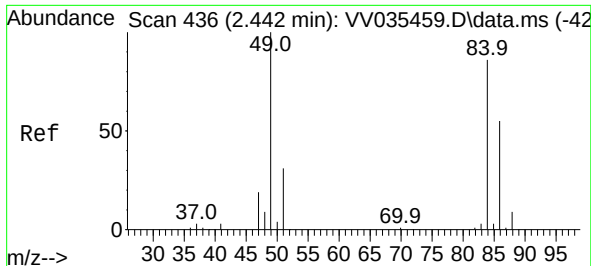
Tgt Ion: 76 Resp: 260
Ion Ratio Lower Upper
76 100
78 51.2 7.4 11.0#



#15
Methyl Acetate
Concen: 143.909 ug/L
RT: 2.355 min Scan# 409
Delta R.T. -0.019 min
Lab File: VV035468.D
Acq: 29 Apr 2024 14:09

Tgt Ion: 43 Resp: 47
Ion Ratio Lower Upper
43 100
74 0.0 20.6 30.8#

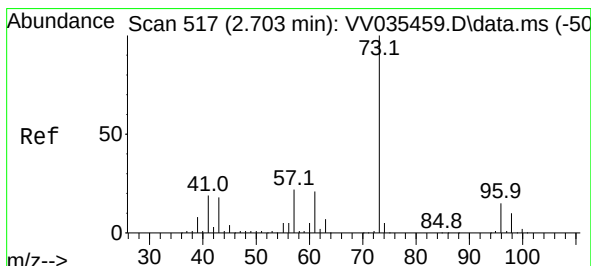
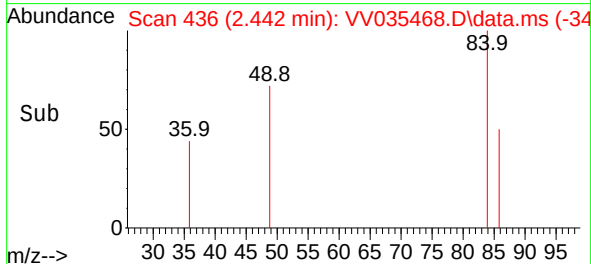
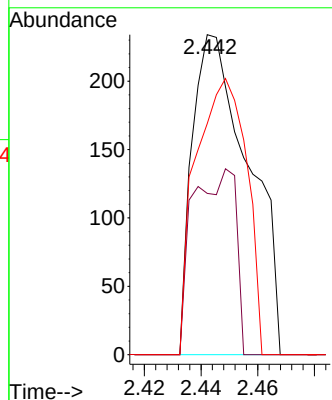
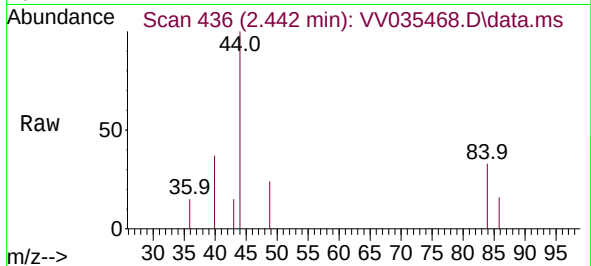




#16
Methylene chloride
Concen: 982.398 ug/L
RT: 2.442 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV035468.D
Acq: 29 Apr 2024 14:09

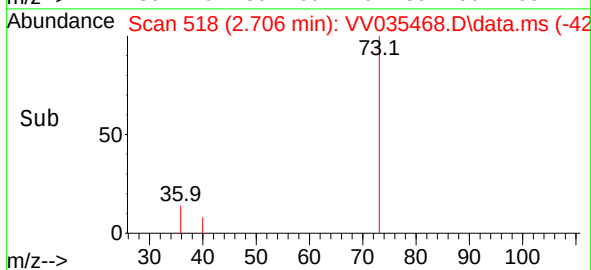
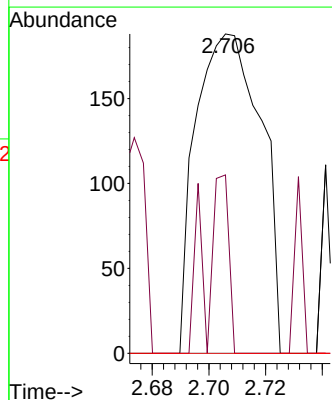
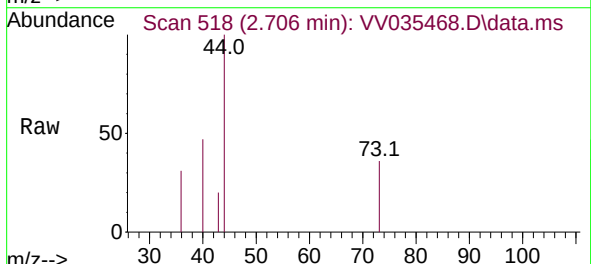
Instrument :
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ClientSampleId :

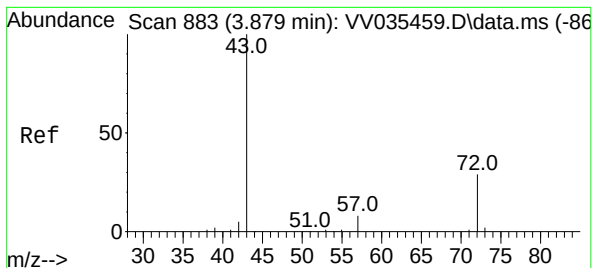
Tgt Ion: 84 Resp: 323
Ion Ratio Lower Upper
84 100
86 50.4 45.1 83.9
49 72.2 82.3 152.8#



#18
Methyl tert-butyl Ether
Concen: 318.696 ug/L
RT: 2.706 min Scan# 518
Delta R.T. 0.003 min
Lab File: VV035468.D
Acq: 29 Apr 2024 14:09

Tgt Ion: 73 Resp: 300
Ion Ratio Lower Upper
73 100
43 13.3 13.9 20.9#
57 0.0 17.4 26.0#





#22

2-Butanone

Concen: 184.685 ug/L

RT: 3.899 min Scan# 80

Delta R.T. 0.019 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Instrument :

MSVOA_V

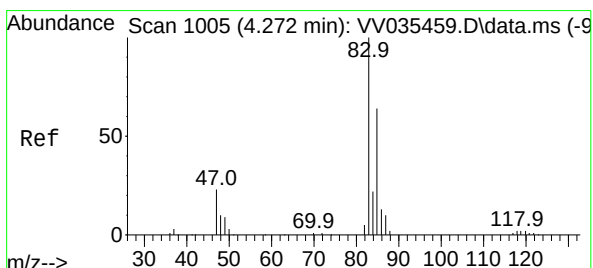
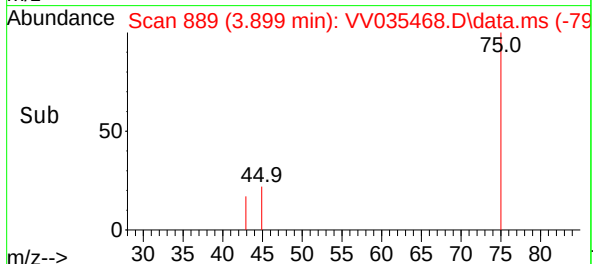
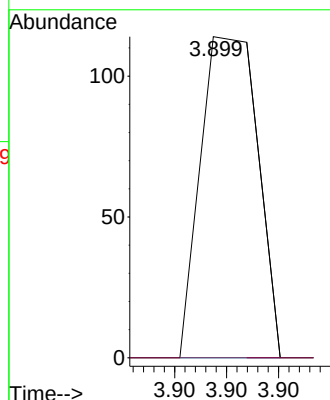
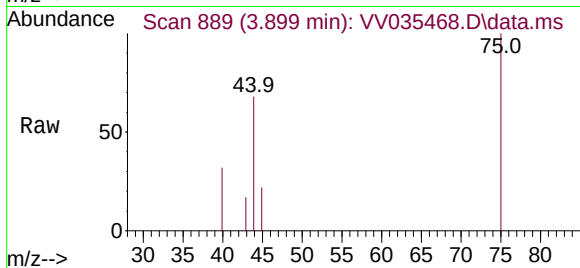
ClientSampleId :

Tgt Ion: 43 Resp: 44

Ion Ratio Lower Upper

43 100

72 0.0 13.8 41.4#



#25

Chloroform

Concen: 938.101 ug/L

RT: 4.297 min Scan# 1013

Delta R.T. 0.026 min

Lab File: VV035468.D

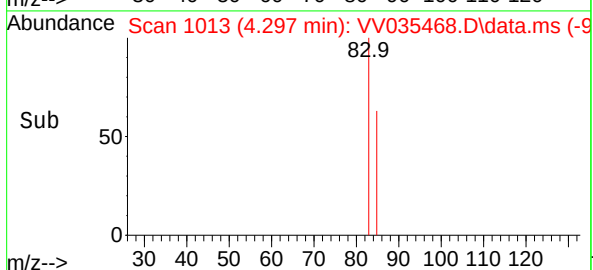
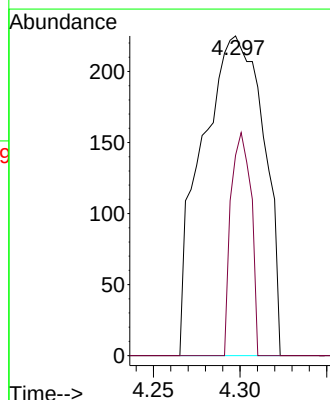
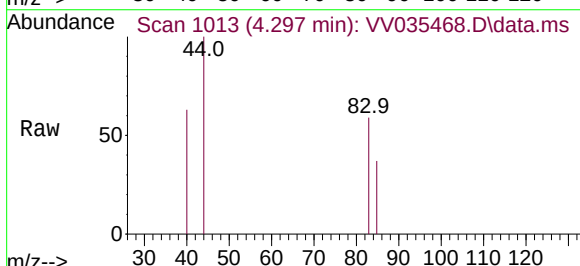
Acq: 29 Apr 2024 14:09

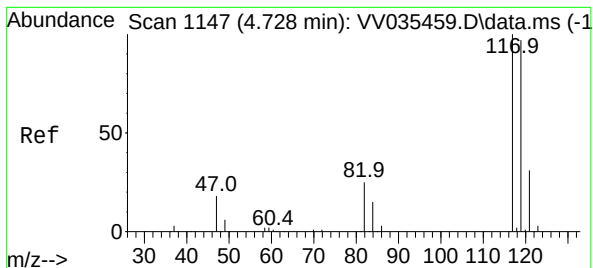
Tgt Ion: 83 Resp: 561

Ion Ratio Lower Upper

83 100

85 62.7 45.6 84.6





#31

Carbon tetrachloride

Concen: 3.699 ug/L

RT: 4.741 min Scan# 1151

Delta R.T. 0.013 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Instrument :

MSVOA_V

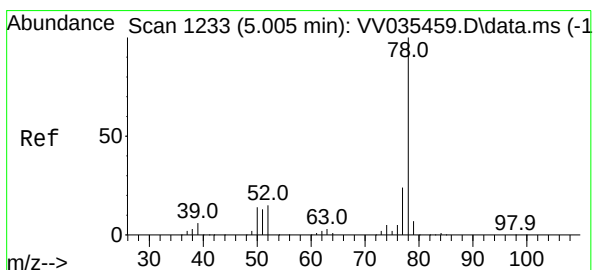
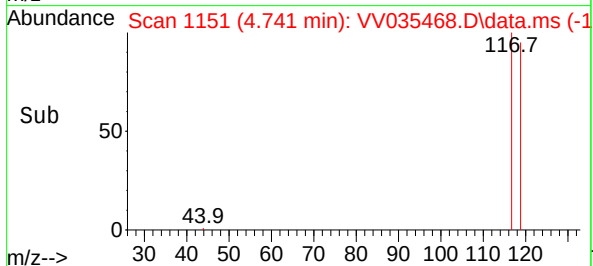
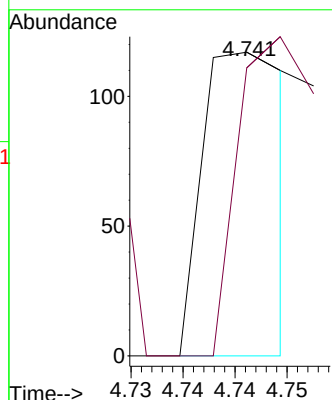
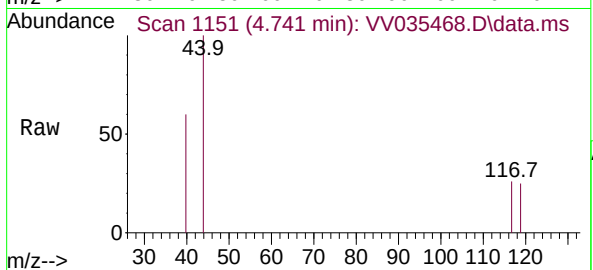
ClientSampleId :

Tgt Ion:117 Resp: 66

Ion Ratio Lower Upper

117 100

119 98.5 76.4 114.6



#33

Benzene

Concen: 1.332 ug/L

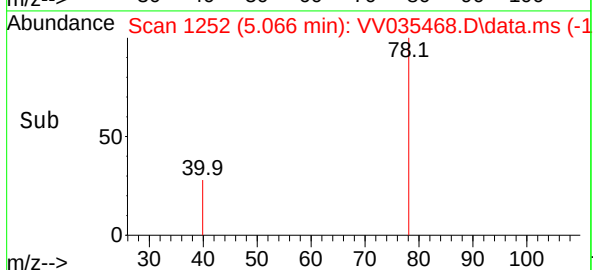
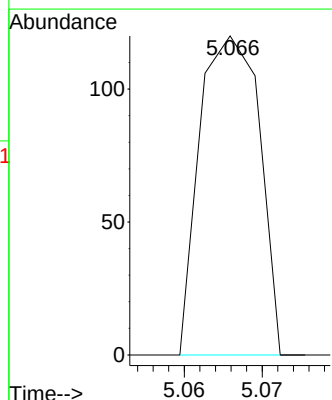
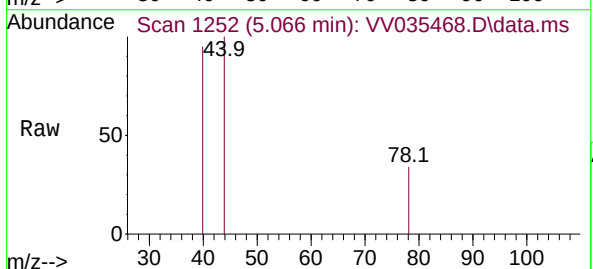
RT: 5.066 min Scan# 1252

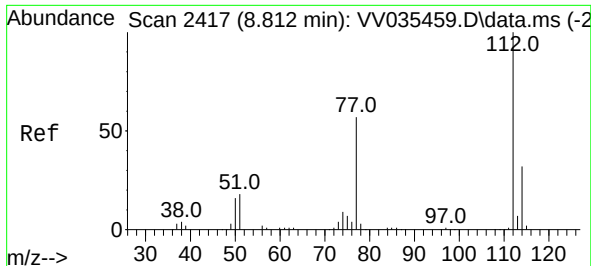
Delta R.T. 0.061 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Tgt Ion: 78 Resp: 64





#51

Chlorobenzene

Concen: 17.300 ug/L

RT: 8.841 min Scan# 2417

Delta R.T. 0.029 min

Lab File: VV035468.D

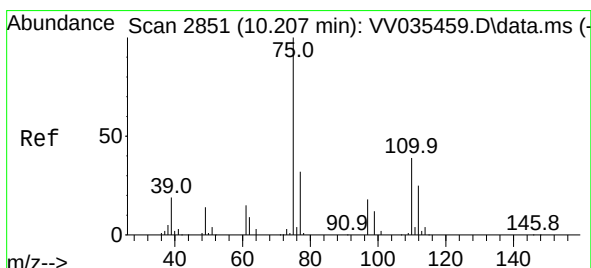
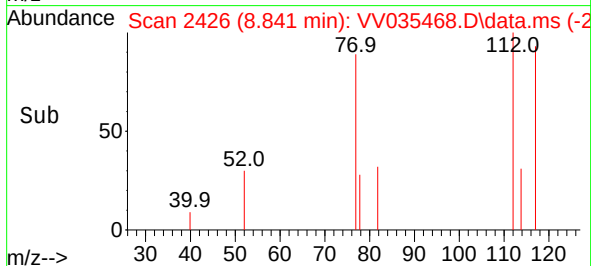
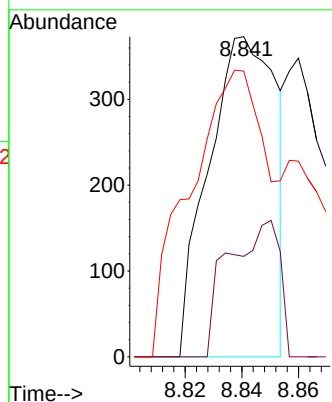
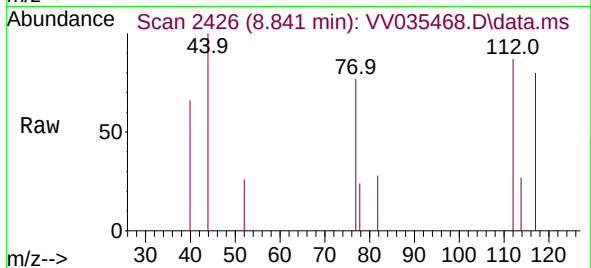
Acq: 29 Apr 2024 14:09

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:112	Resp:	614
Ion	Ratio	Lower Upper
112	100	
114	31.4	22.4 41.6
77	89.3	45.6 68.4#



#61

1,2,3-Trichloropropane

Concen: 7.447 ug/L

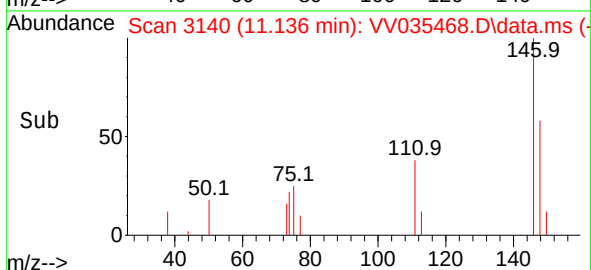
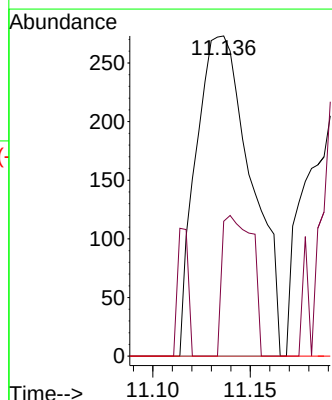
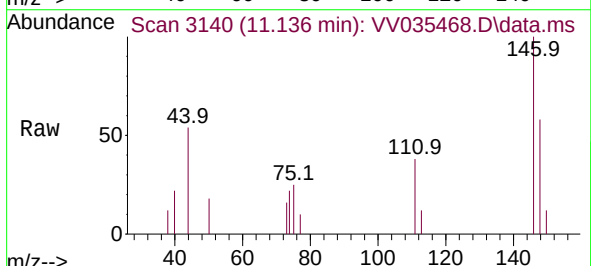
RT: 11.136 min Scan# 3140

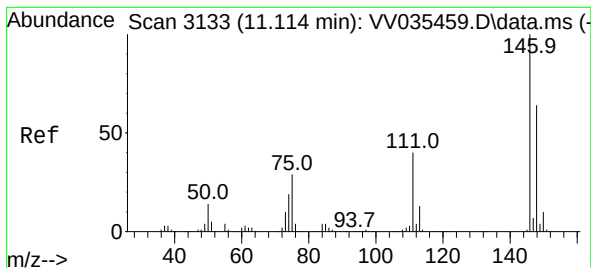
Delta R.T. 0.929 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Tgt Ion: 75	Resp:	539
Ion	Ratio	Lower Upper
75	100	
77	20.0	25.3 37.9#
110	0.0	31.2 46.8#





#64

1,3-Dichlorobenzene

Concen: 18.612 ug/L

RT: 11.136 min Scan# 3140

Delta R.T. 0.023 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Instrument :

MSVOA_V

ClientSampleId :

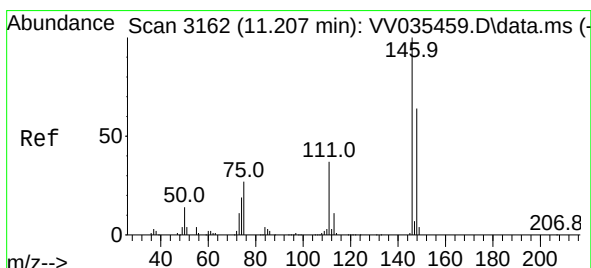
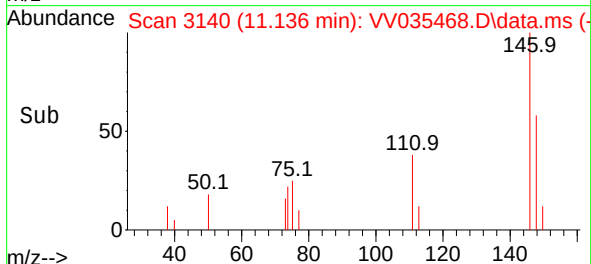
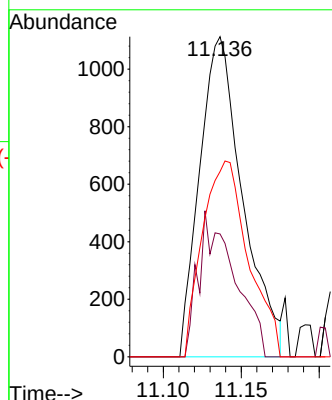
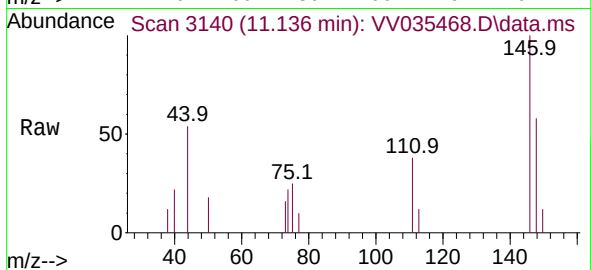
Tgt Ion:146 Resp: 2139

Ion Ratio Lower Upper

146 100

111 38.4 27.0 50.2

148 57.9 44.2 82.2



#65

1,4-Dichlorobenzene

Concen: 3.833 ug/L

RT: 11.217 min Scan# 3165

Delta R.T. 0.010 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

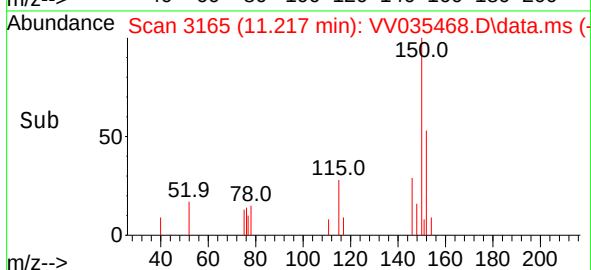
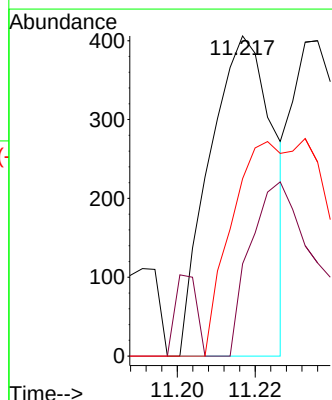
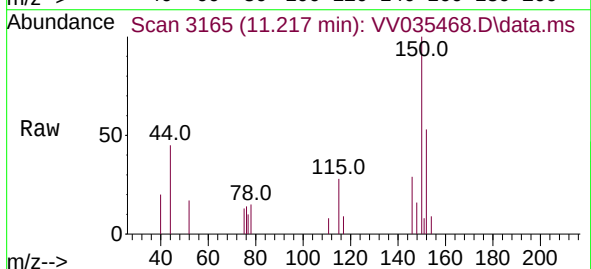
Tgt Ion:146 Resp: 462

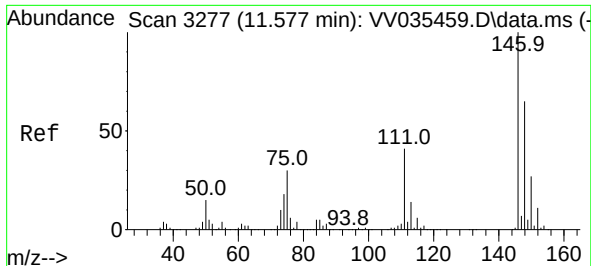
Ion Ratio Lower Upper

146 100

111 28.8 26.5 49.1

148 55.4 45.0 83.6





#67

1,2-Dichlorobenzene

Concen: 11.147 ug/L

RT: 11.590 min Scan# 31

Delta R.T. 0.013 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Instrument :

MSVOA_V

ClientSampleId :

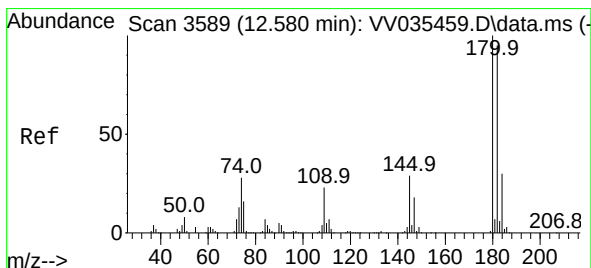
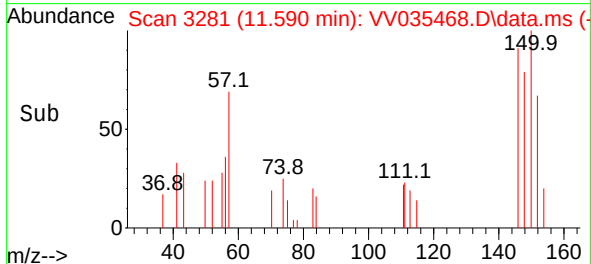
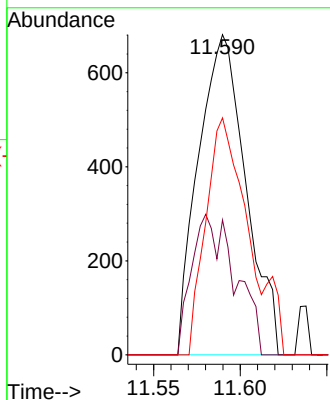
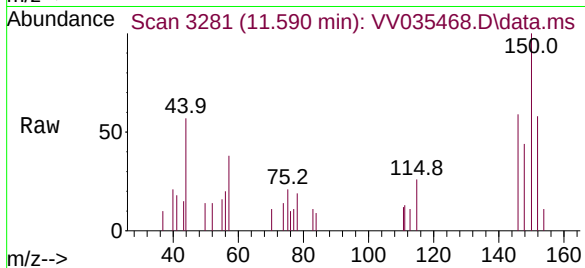
Tgt Ion:146 Resp: 1298

Ion Ratio Lower Upper

146 100

111 42.1 33.3 49.9

148 74.0 52.2 78.2



#69

1,3,5-Trichlorobenzene

Concen: 22.449 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. 0.624 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Tgt Ion:180 Resp: 1828

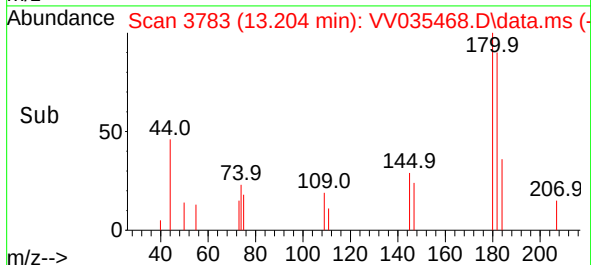
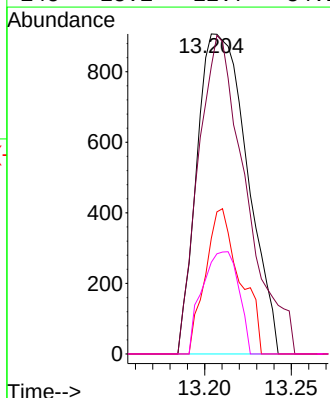
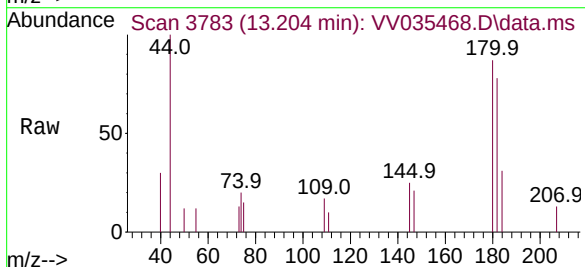
Ion Ratio Lower Upper

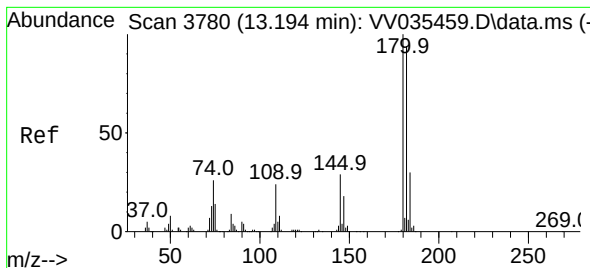
180 100

182 92.9 76.2 114.2

184 31.3 23.8 35.6

145 23.1 22.7 34.1





#70

1,2,4-trichlorobenzene

Concen: 28.279 ug/L

RT: 13.204 min Scan# 31

Delta R.T. 0.010 min

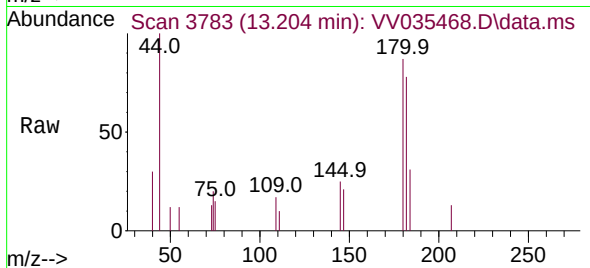
Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Instrument :

MSVOA_V

ClientSampleId :



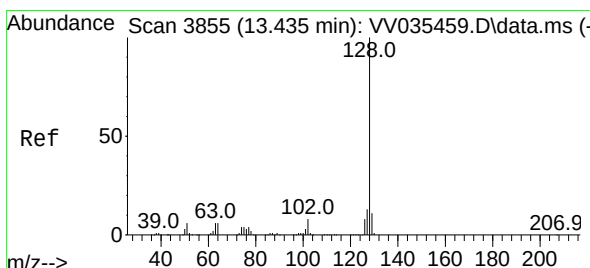
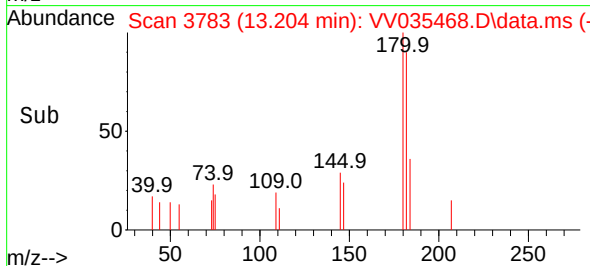
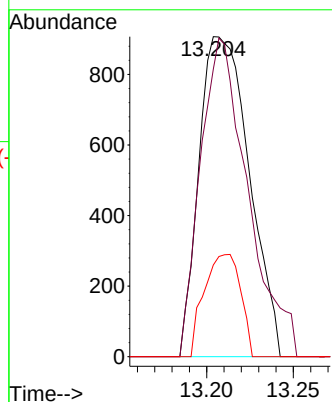
Tgt Ion:180 Resp: 1828

Ion Ratio Lower Upper

180 100

182 92.9 75.1 112.7

145 23.1 23.2 34.8#



#71

Naphthalene

Concen: 3.468 ug/L

RT: 13.455 min Scan# 3861

Delta R.T. 0.019 min

Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

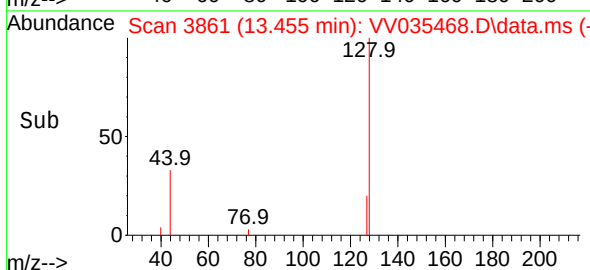
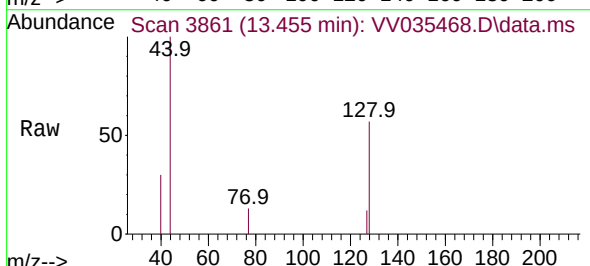
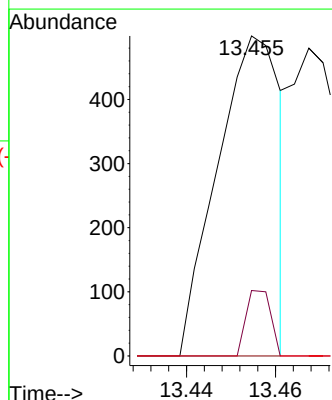
Tgt Ion:128 Resp: 489

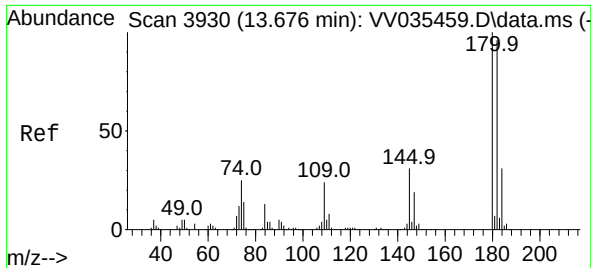
Ion Ratio Lower Upper

128 100

127 8.0 10.5 15.7#

129 0.0 8.6 12.8#





#72

1,2,3-Trichlorobenzene

Concen: 15.781 ug/L

RT: 13.689 min Scan# 3934

Delta R.T. 0.013 min

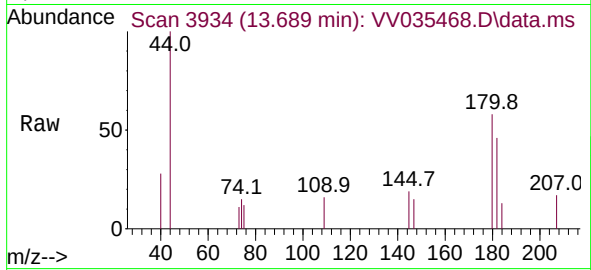
Lab File: VV035468.D

Acq: 29 Apr 2024 14:09

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 994

Ion Ratio Lower Upper

180 100

182 46.6 76.6 115.0#

145 15.5 24.7 37.1#

