

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW021524\
 Data File : VW034191.D
 Acq On : 15 Feb 2024 15:54
 Operator : SY/MD
 Sample : P1498-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 16 00:43:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR012524WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Feb 16 00:40:49 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	73545	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	65158	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	35051	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	19264	3.382	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.600%
7) Chloroethane-d5	1.535	69	19231	3.855	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.000%
11) 1,1-Dichloroethene-d2	2.060	65	10307	3.752	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.000%
20) 2-Butanone-d5	3.796	46	44991	47.032	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.060%
24) Chloroform-d	4.252	84	50970	4.925	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.400%
26) 1,2-Dichloroethane-d4	4.947	65	23778	4.916	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.400%
32) Benzene-d6	4.963	84	84069	4.300	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.000%
36) 1,2-Dichloropropane-d6	6.002	67	21056	3.853	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.000%
41) Toluene-d8	7.246	98	69769	3.883	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.600%
43) trans-1,3-Dichloroprop...	7.561	79	9048	4.385	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.600%
46) 2-Hexanone-d5	8.027	63	31222	42.387	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.780%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	14753	4.453	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.000%
66) 1,2-Dichlorobenzene-d4	11.561	152	28664	4.497	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	21637	3.080	ug/L	92
10) 1,1,2-Trichloro-1,2,2-...	2.072	101	65664	12.409	ug/L	98
12) 1,1-Dichloroethene	2.072	96	292979	57.024	ug/L #	70
17) Methyl tert-butyl Ether	2.709	73	5366	0.508	ug/L	95
18) trans-1,2-Dichloroethene	2.696	96	51462	9.834	ug/L	98
19) 1,1-Dichloroethane	3.114	63	73082	7.600	ug/L	97
22) cis-1,2-Dichloroethene	3.812	96	1927252	324.610	ug/L	97
25) Chloroform	4.278	83	88787	9.134	ug/L	99
27) 1,2-Dichloroethane	5.072	62	713	0.128	ug/L #	76
29) 1,1,1-Trichloroethane	4.519	97	4192	0.479	ug/L #	76
30) Cyclohexane	4.587	56	1579	0.186	ug/L #	94
33) Benzene	5.021	78	13712	0.702	ug/L	100
34) Trichloroethene	5.886	95	31448667	5560.248	ug/L	94
35) Methylcyclohexane	5.886	83	450491	50.742	ug/L #	1
37) 1,2-Dichloropropane	5.873	63	137548	29.055	ug/L #	87
42) Toluene	7.333	91	1800	0.086	ug/L	96
44) trans-1,3-Dichloropropene	7.558	75	437	0.079	ug/L	83
45) 1,1,2-Trichloroethane	7.776	97	4927	1.686	ug/L	92
47) Tetrachloroethene	7.905	164	474181	103.179	ug/L	97

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

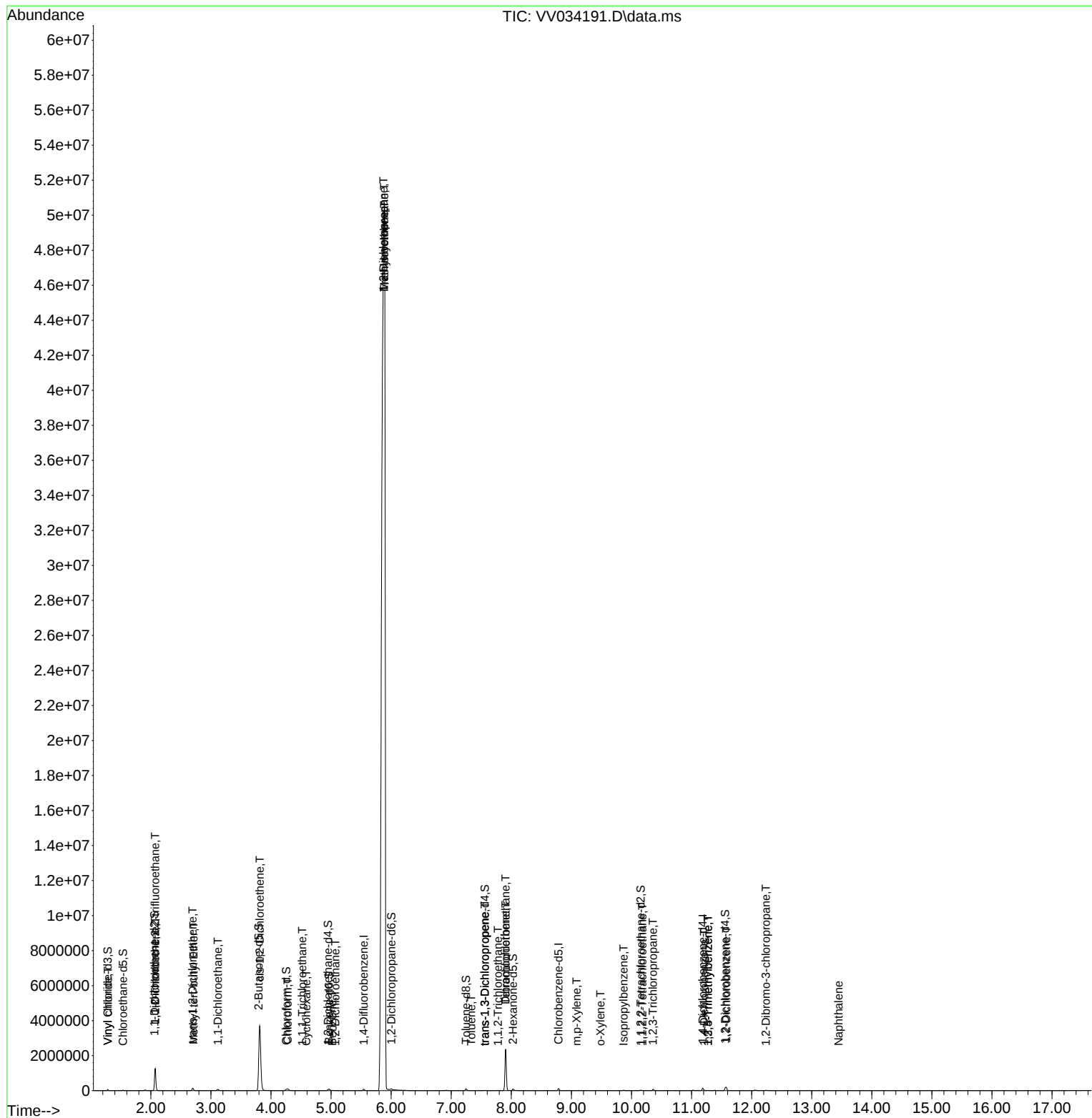
49) Dibromochloromethane	7.905	129	426515	122.785	ug/L #	11
53) m,p-Xylene	9.085	106	530	0.058	ug/L	92
54) o-Xylene	9.484	106	1565	0.179	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.181	83	1830	0.593	ug/L #	81
60) Isopropylbenzene	9.870	105	17403	0.671	ug/L	98
61) 1,2,3-Trichloropropane	10.358	75	1371	0.569	ug/L #	49
62) 1,3,5-Trimethylbenzene	11.271	105	6800	0.310	ug/L	89
63) 1,2,4-Trimethylbenzene	11.271	105	6800	0.319	ug/L	92
65) 1,4-Dichlorobenzene	11.210	146	10100	0.902	ug/L	99
67) 1,2-Dichlorobenzene	11.577	146	63633	6.552	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.236	75	144	0.285	ug/L #	1
71) Naphthalene	13.445	128	3545	0.396	ug/L #	94

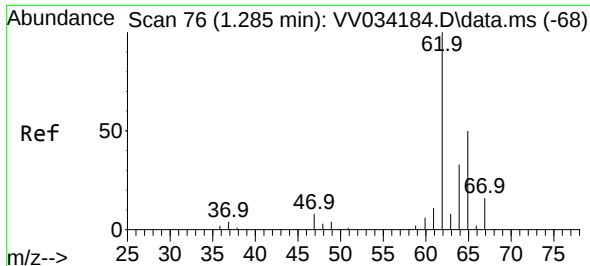
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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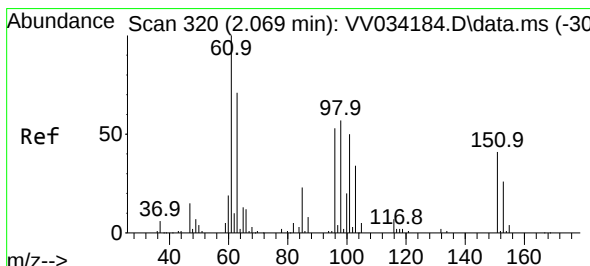
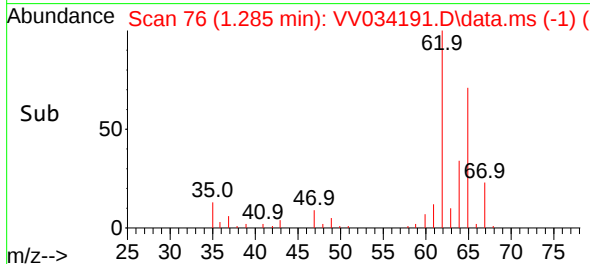
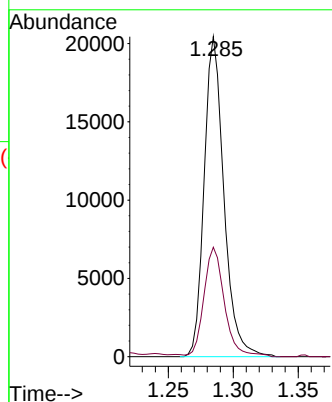
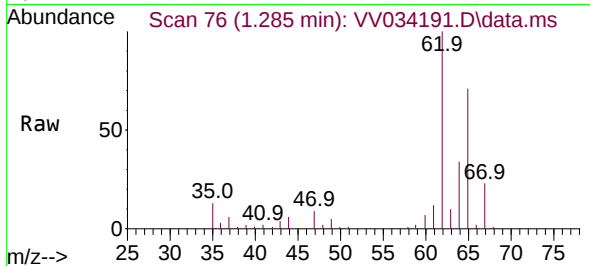




#5
 Vinyl chloride
 Concen: 3.080 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. -0.000 min
 Lab File: VV034191.D
 Acq: 15 Feb 2024 15:54

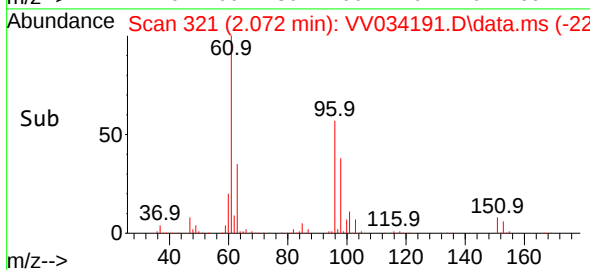
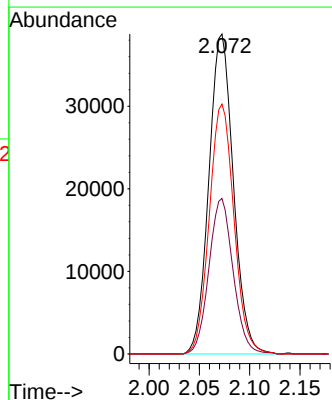
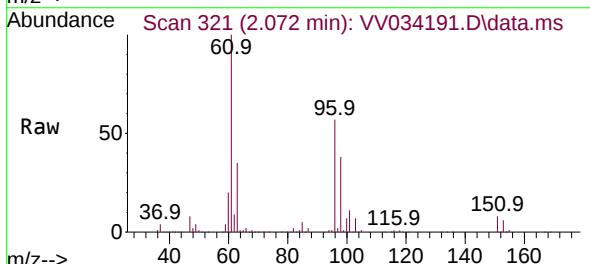
Instrument :
 MSVOA_V
 ClientSampleId :

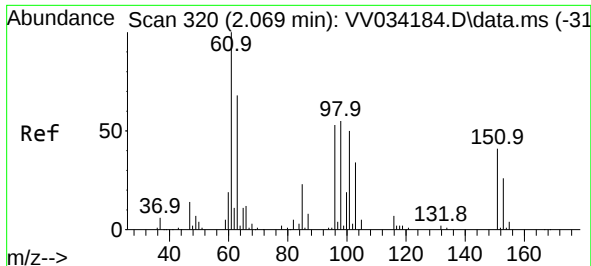
Tgt Ion: 62 Resp: 21637
 Ion Ratio Lower Upper
 62 100
 64 34.2 27.2 50.4



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 12.409 ug/L
 RT: 2.072 min Scan# 321
 Delta R.T. 0.003 min
 Lab File: VV034191.D
 Acq: 15 Feb 2024 15:54

Tgt Ion: 101 Resp: 65664
 Ion Ratio Lower Upper
 101 100
 85 48.0 37.1 55.7
 151 78.8 61.7 92.5





#12

1,1-Dichloroethene

Concen: 57.024 ug/L

RT: 2.072 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

Instrument :

MSVOA_V

ClientSampleId :

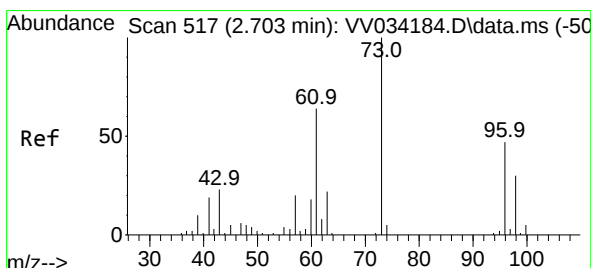
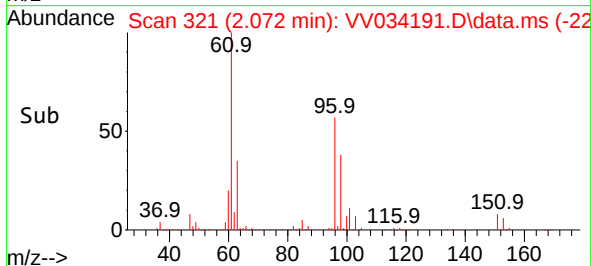
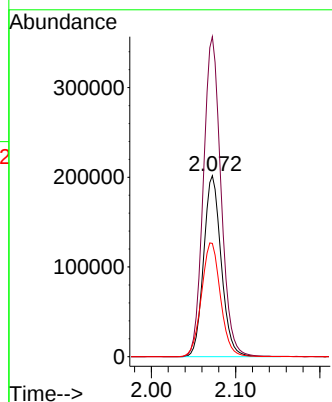
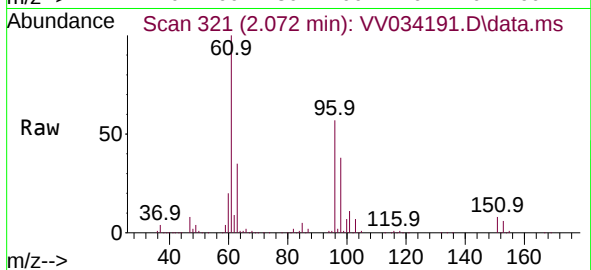
Tgt Ion: 96 Resp: 292979

Ion Ratio Lower Upper

96 100

61 176.8 128.8 239.2

63 62.6 97.9 181.9#



#17

Methyl tert-butyl Ether

Concen: 0.508 ug/L

RT: 2.709 min Scan# 519

Delta R.T. 0.006 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

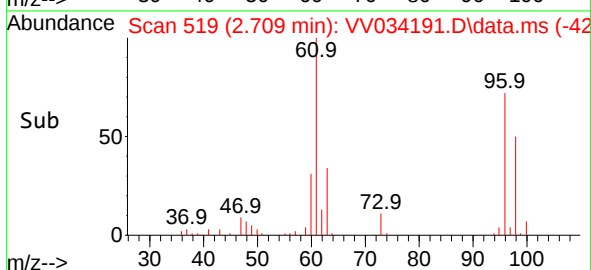
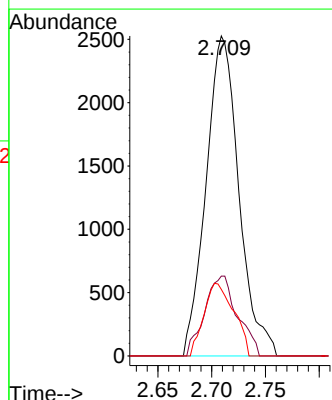
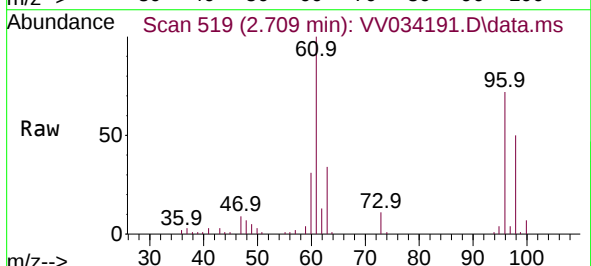
Tgt Ion: 73 Resp: 5366

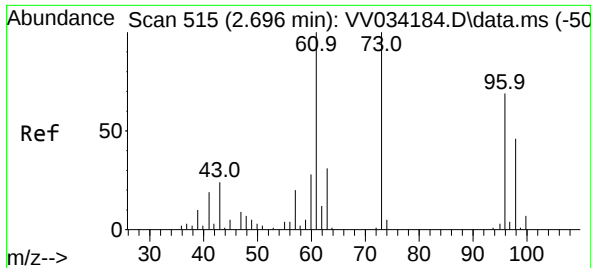
Ion Ratio Lower Upper

73 100

43 25.0 17.7 26.5

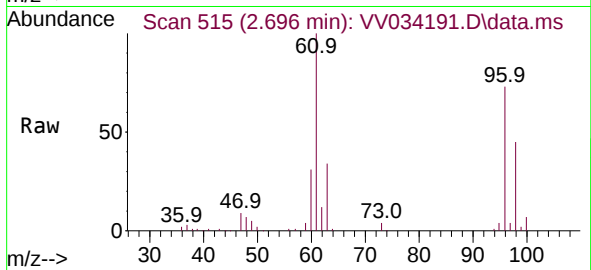
57 20.6 17.9 26.9



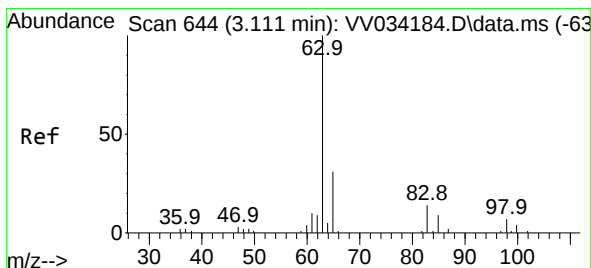
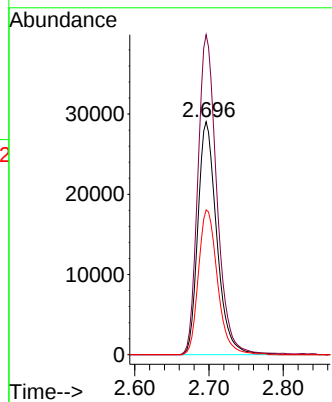
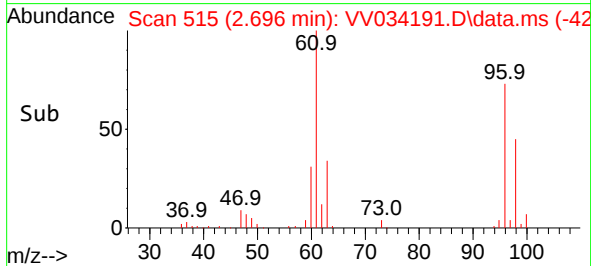


#18
trans-1,2-Dichloroethene
Concen: 9.834 ug/L
RT: 2.696 min Scan# 515
Delta R.T. -0.000 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Instrument :
MSVOA_V
ClientSampleId :

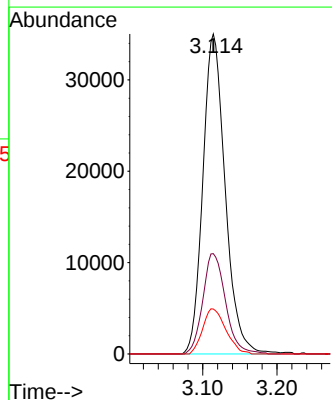
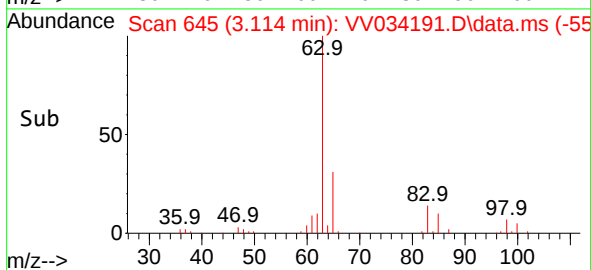
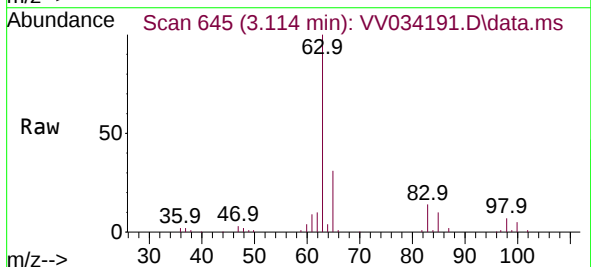


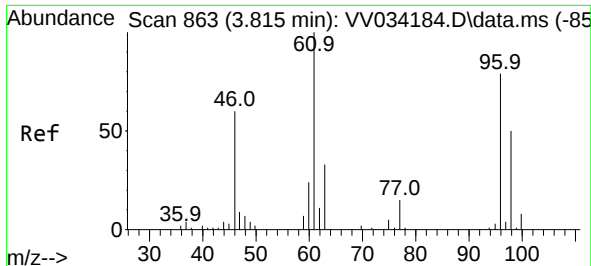
Tgt Ion: 96 Resp: 51462
Ion Ratio Lower Upper
96 100
61 137.3 97.6 181.4
98 62.2 44.4 82.5



#19
1,1-Dichloroethane
Concen: 7.600 ug/L
RT: 3.114 min Scan# 645
Delta R.T. 0.003 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Tgt Ion: 63 Resp: 73082
Ion Ratio Lower Upper
63 100
65 31.3 20.8 38.6
83 14.0 9.4 17.4





#22

cis-1,2-Dichloroethene

Concen: 324.610 ug/L

RT: 3.812 min Scan# 80

Delta R.T. -0.003 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

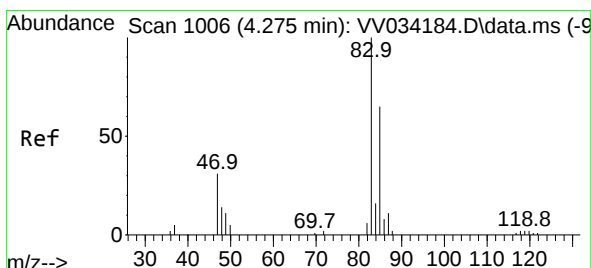
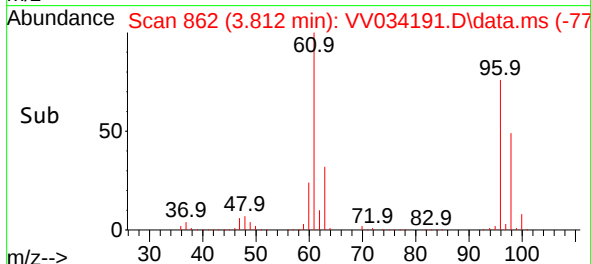
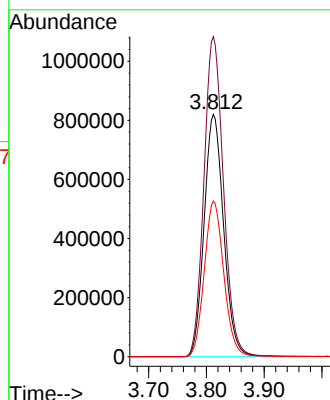
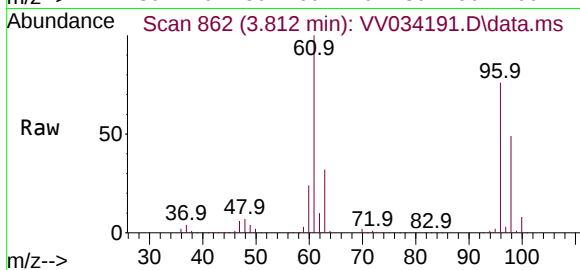
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 96 Resp: 1927252

Ion	Ratio	Lower	Upper
96	100		
61	132.1	90.3	167.7
98	64.3	43.2	80.2



#25

Chloroform

Concen: 9.134 ug/L

RT: 4.278 min Scan# 1007

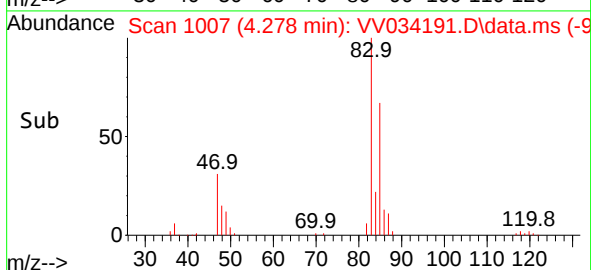
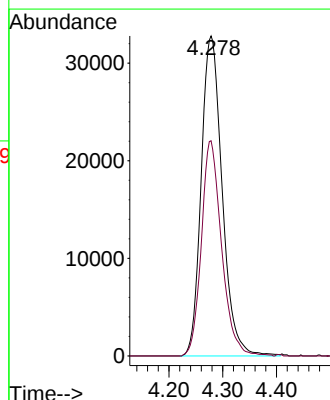
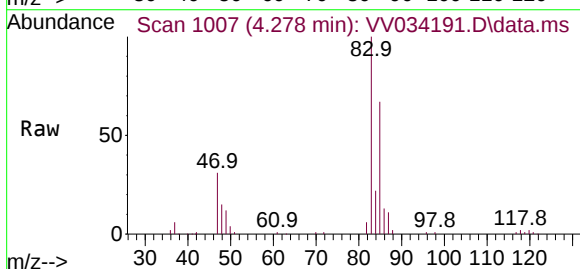
Delta R.T. 0.003 min

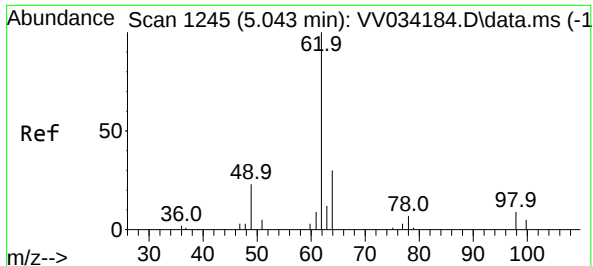
Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

Tgt Ion: 83 Resp: 88787

Ion	Ratio	Lower	Upper
83	100		
85	67.2	47.5	88.1

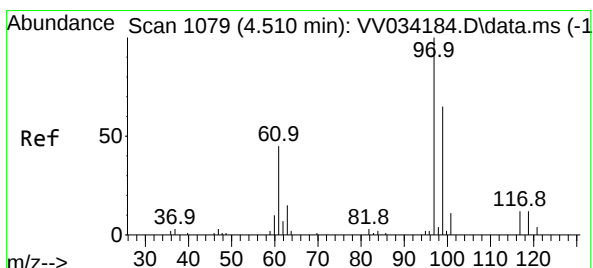
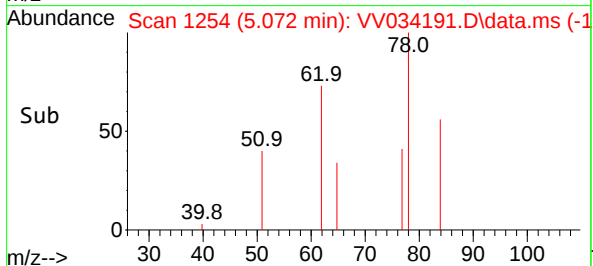
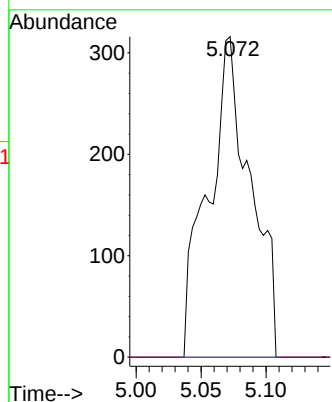
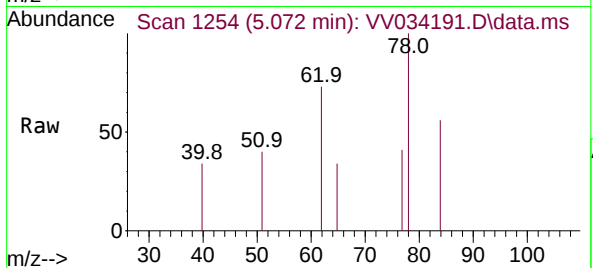




#27
1,2-Dichloroethane
Concen: 0.128 ug/L
RT: 5.072 min Scan# 11
Delta R.T. 0.029 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

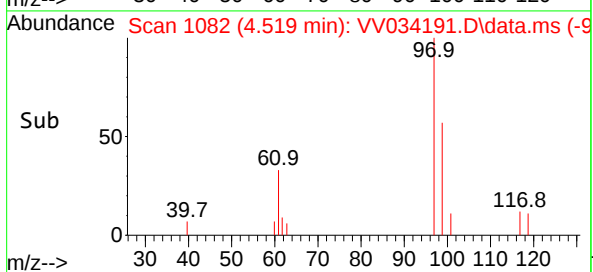
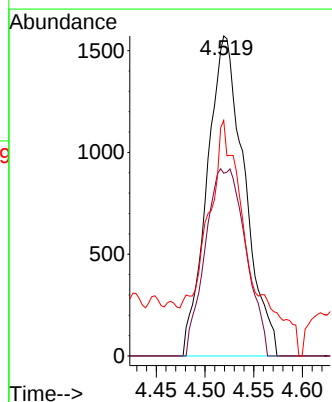
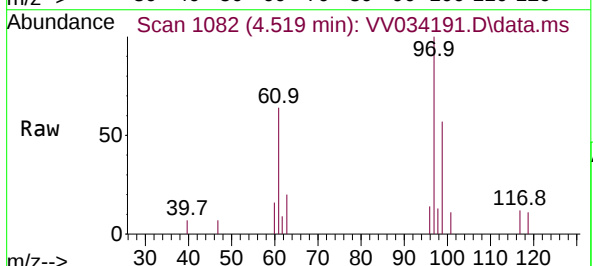
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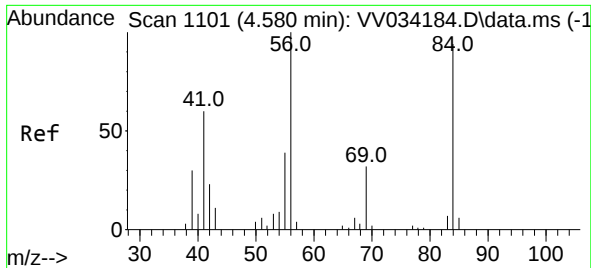
Tgt Ion: 62 Resp: 713
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



#29
1,1,1-Trichloroethane
Concen: 0.479 ug/L
RT: 4.519 min Scan# 1082
Delta R.T. 0.010 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Tgt Ion: 97 Resp: 4192
Ion Ratio Lower Upper
97 100
99 63.4 50.6 75.8
61 84.2 36.8 55.2#

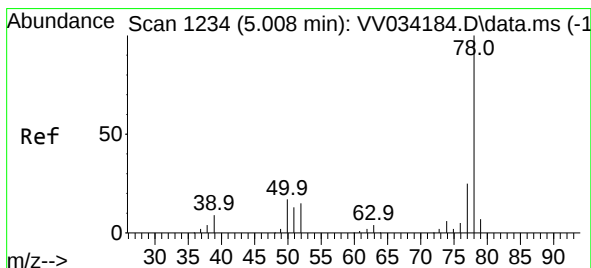
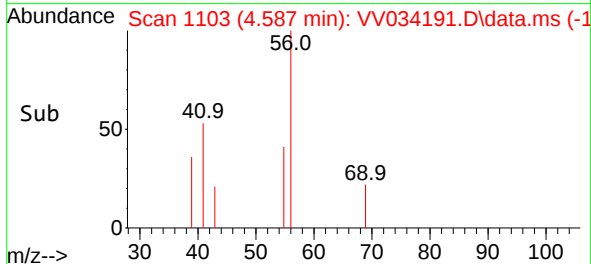
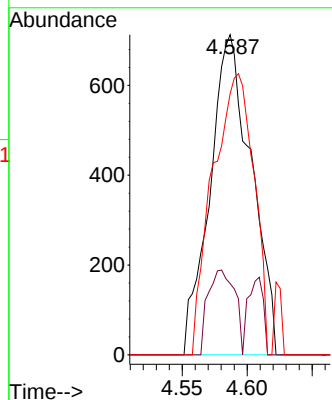
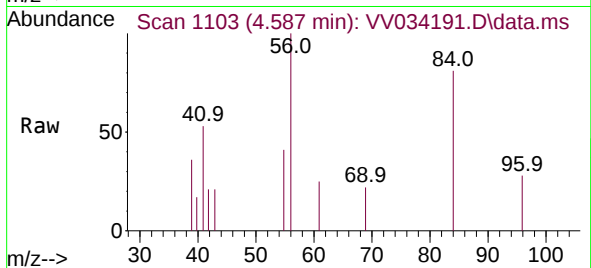




#30
Cyclohexane
Concen: 0.186 ug/L
RT: 4.587 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

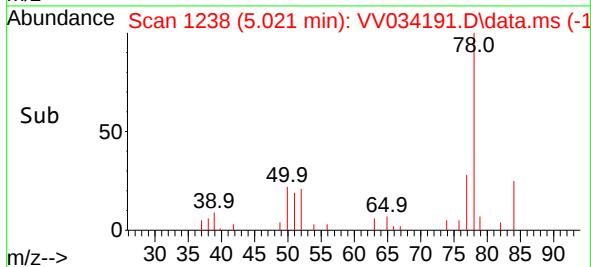
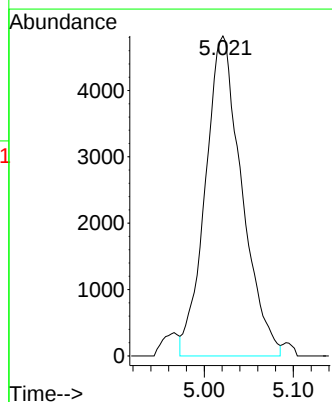
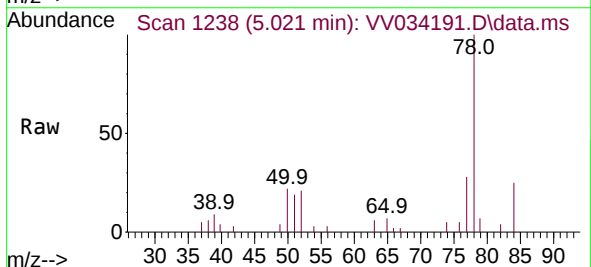
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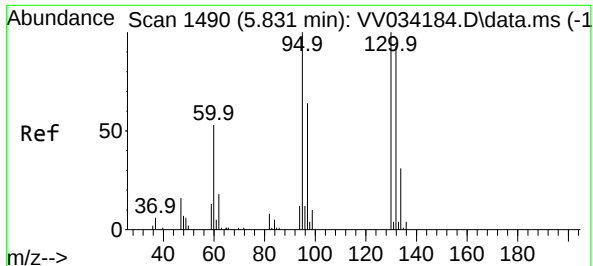
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Ion Ratio Lower Upper
56 100
69 17.1 24.2 36.2#
84 87.3 70.0 105.0



#33
Benzene
Concen: 0.702 ug/L
RT: 5.021 min Scan# 1238
Delta R.T. 0.013 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Tgt Ion: 78 Resp: 13712



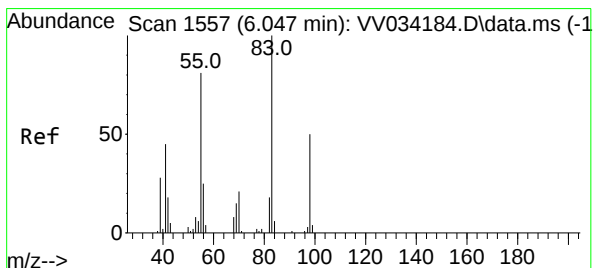
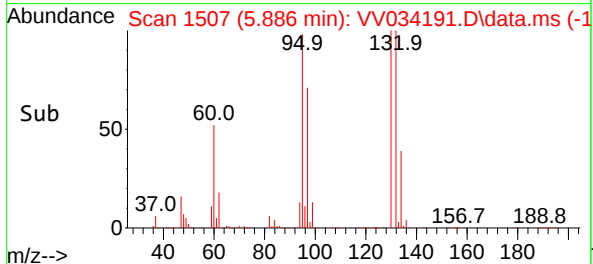
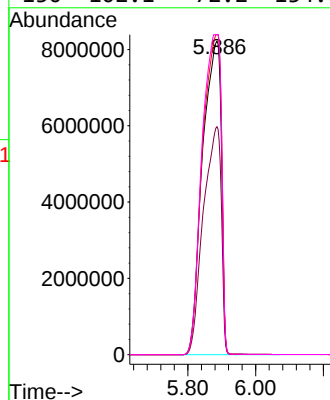
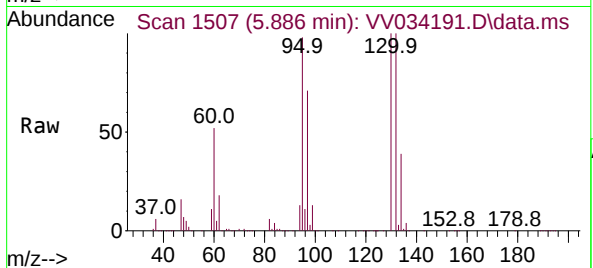


#34
Trichloroethene
Concen: 5560.248 ug/L
RT: 5.886 min Scan# 1507
Delta R.T. 0.055 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 95 Resp:31448667

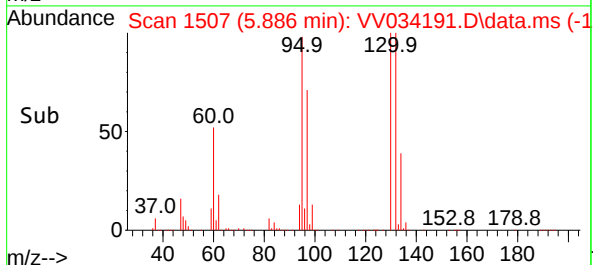
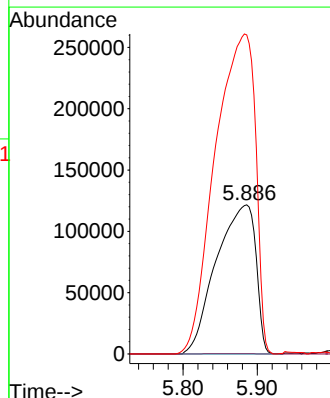
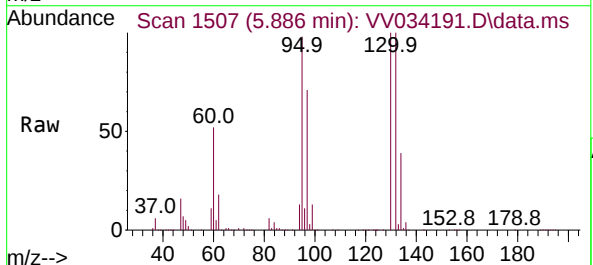
Ion	Ratio	Lower	Upper
95	100		
97	72.8	45.1	83.7
132	102.1	66.0	122.6
130	102.1	72.2	134.0

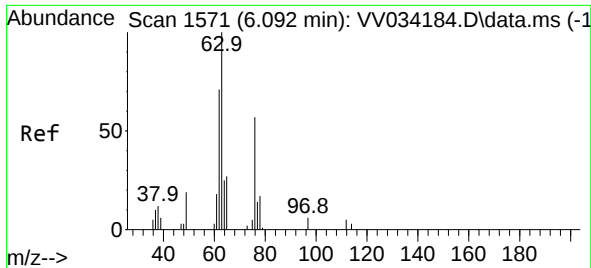


#35
Methylcyclohexane
Concen: 50.742 ug/L
RT: 5.886 min Scan# 1507
Delta R.T. -0.161 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Tgt Ion: 83 Resp: 450491

Ion	Ratio	Lower	Upper
83	100		
55	0.0	63.5	95.3#
98	218.4	39.0	58.4#





#37

1,2-Dichloropropane

Concen: 29.055 ug/L

RT: 5.873 min Scan# 11

Delta R.T. -0.219 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

Instrument :

MSVOA_V

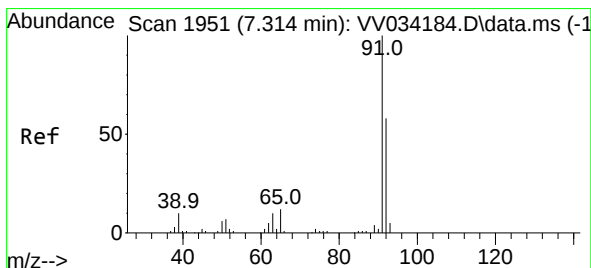
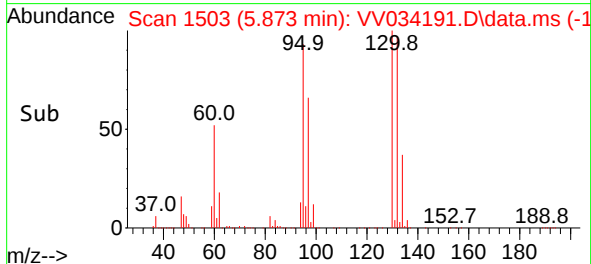
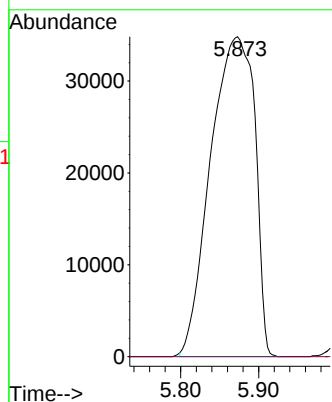
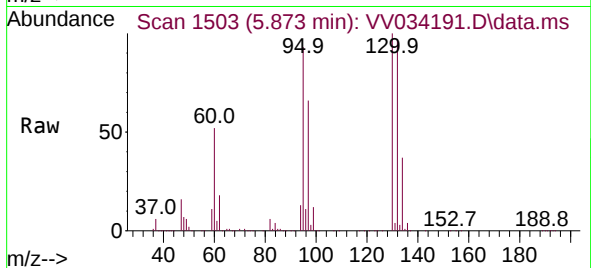
ClientSampleId :

Tgt Ion: 63 Resp: 137548

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.0#



#42

Toluene

Concen: 0.086 ug/L

RT: 7.333 min Scan# 1957

Delta R.T. 0.019 min

Lab File: VV034191.D

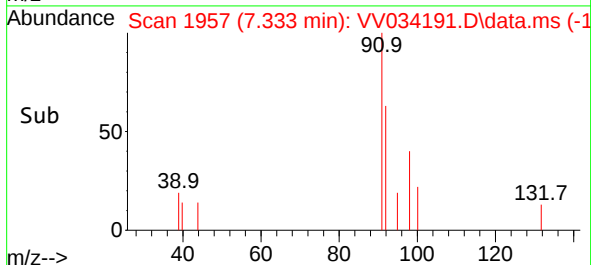
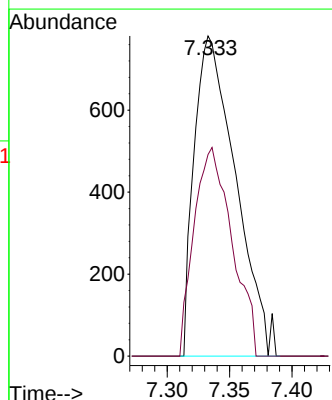
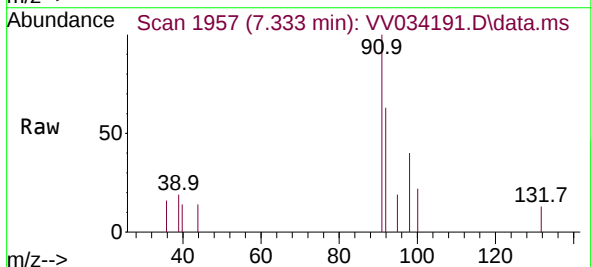
Acq: 15 Feb 2024 15:54

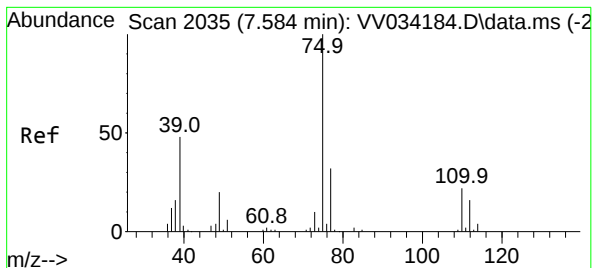
Tgt Ion: 91 Resp: 1800

Ion Ratio Lower Upper

91 100

92 63.0 42.1 78.3





#44

trans-1,3-Dichloropropene

Concen: 0.079 ug/L

RT: 7.558 min Scan# 2035

Delta R.T. -0.026 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

Instrument :

MSVOA_V

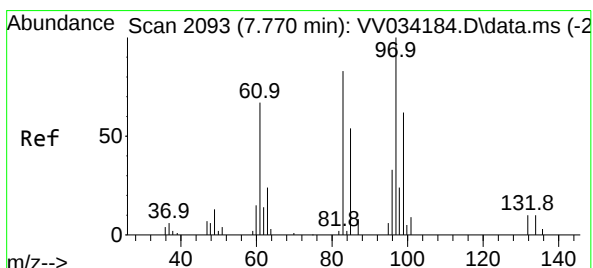
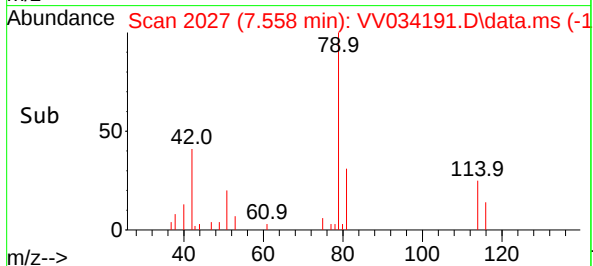
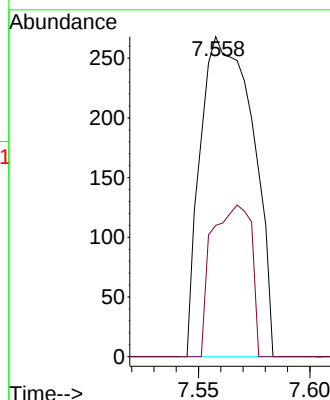
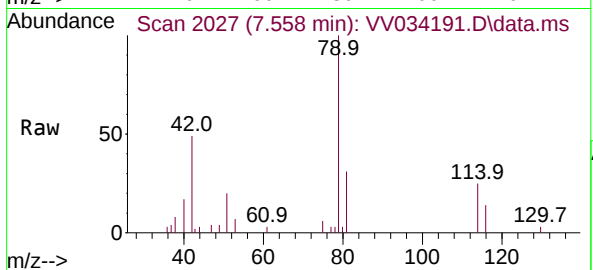
ClientSampleId :

Tgt Ion: 75 Resp: 437

Ion Ratio Lower Upper

75 100

77 41.0 22.2 41.2



#45

1,1,2-Trichloroethane

Concen: 1.686 ug/L

RT: 7.776 min Scan# 2095

Delta R.T. 0.006 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

Tgt Ion: 97 Resp: 4927

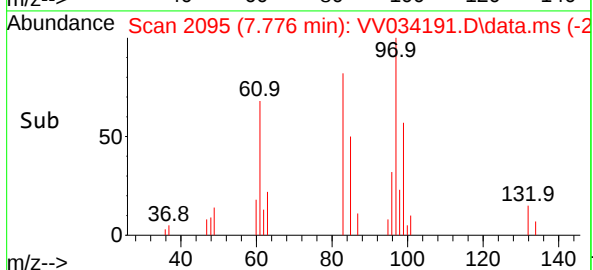
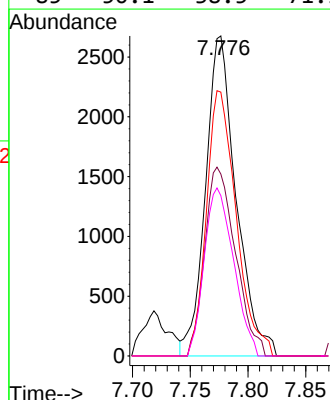
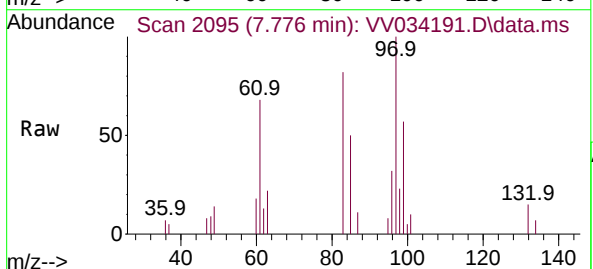
Ion Ratio Lower Upper

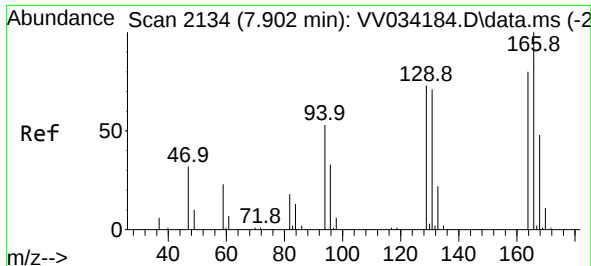
97 100

99 56.8 45.6 84.6

83 82.5 62.3 115.7

85 50.1 38.5 71.5





#47

Tetrachloroethene

Concen: 103.179 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.003 min

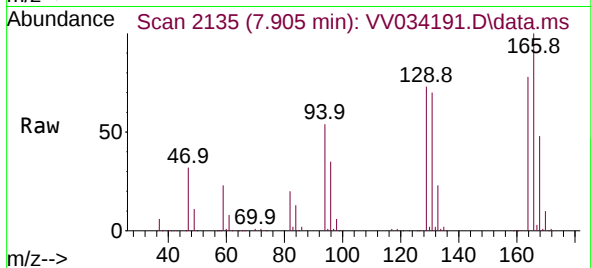
Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 474181

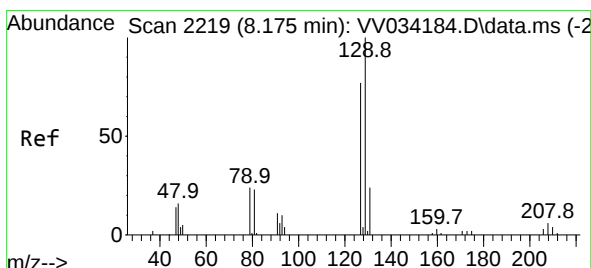
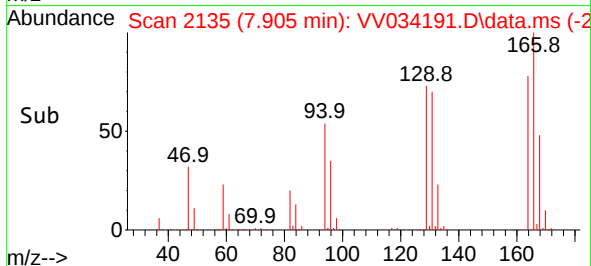
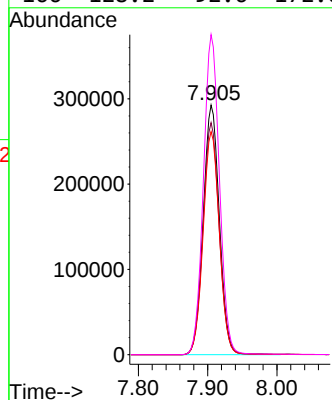
Ion Ratio Lower Upper

164 100

129 93.0 67.8 125.8

131 89.4 63.0 117.0

166 128.2 92.6 172.0



#49

Dibromochloromethane

Concen: 122.785 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. -0.270 min

Lab File: VV034191.D

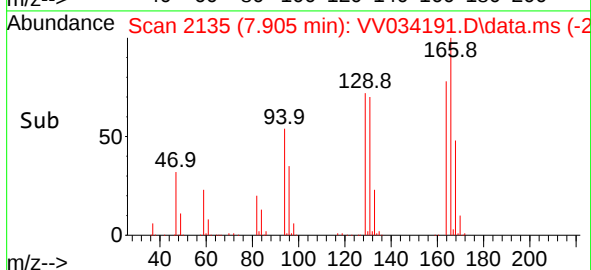
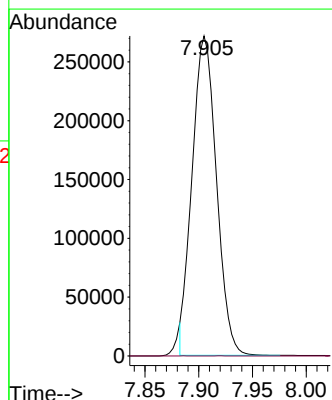
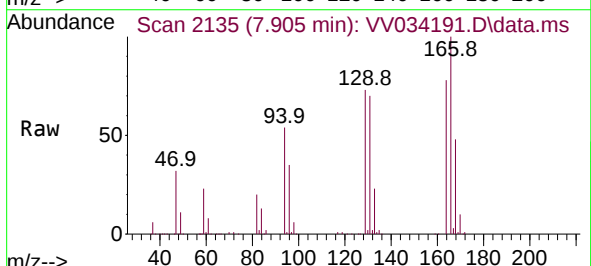
Acq: 15 Feb 2024 15:54

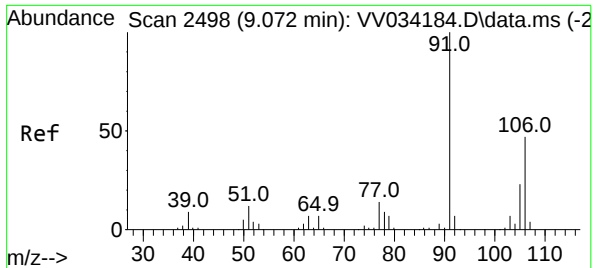
Tgt Ion:129 Resp: 426515

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.5#

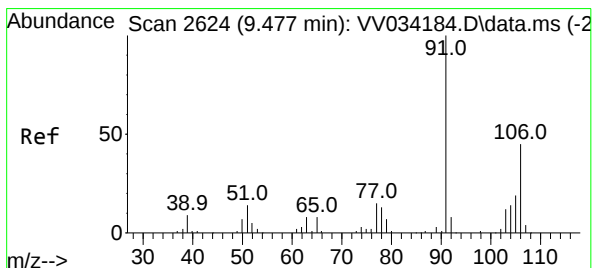
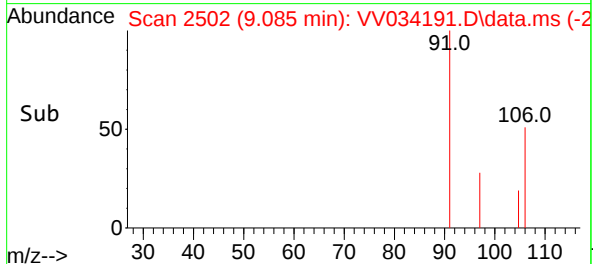
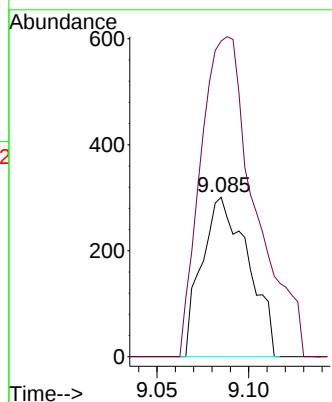
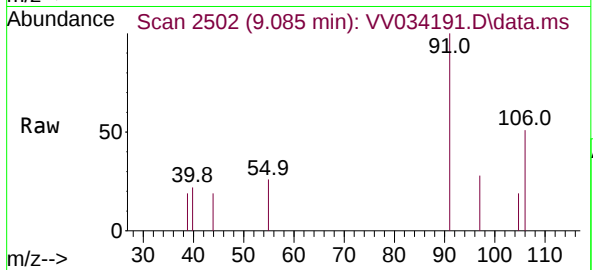




#53
m,p-Xylene
Concen: 0.058 ug/L
RT: 9.085 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

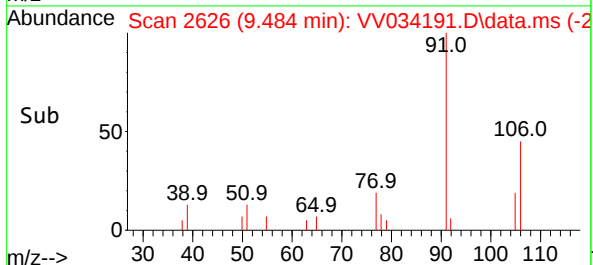
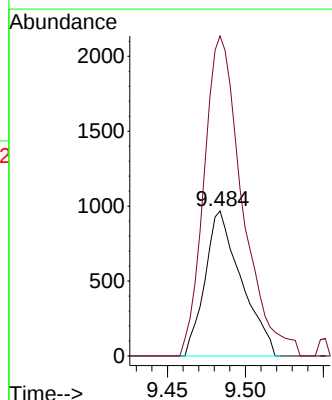
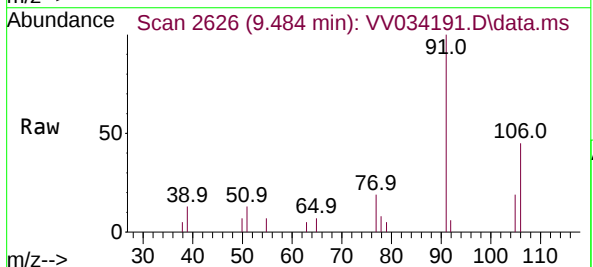
Instrument :
MSVOA_V
ClientSampleId :

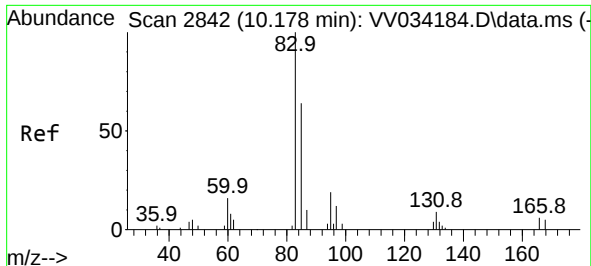
Tgt Ion:106 Resp: 530
Ion Ratio Lower Upper
106 100
91 198.0 147.5 273.9



#54
o-Xylene
Concen: 0.179 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.006 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Tgt Ion:106 Resp: 1565
Ion Ratio Lower Upper
106 100
91 220.7 156.2 290.0

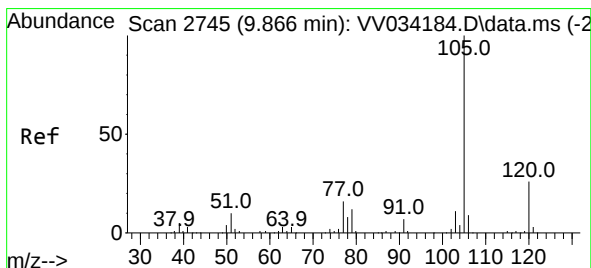
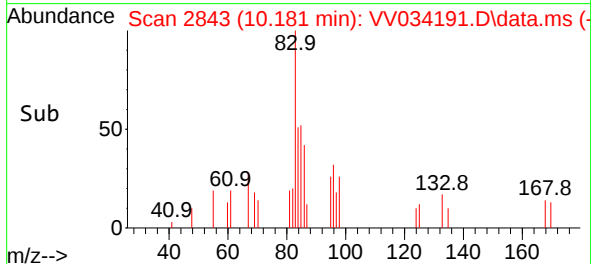
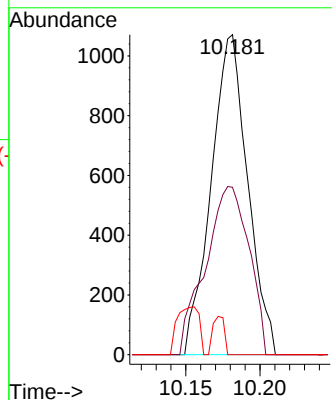
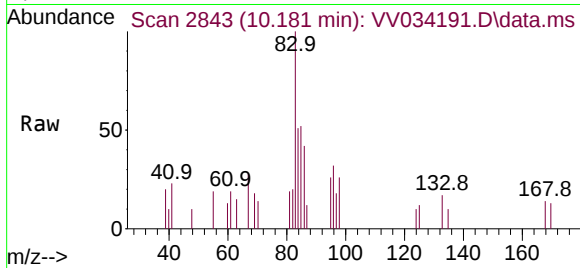




#57
1,1,2,2-Tetrachloroethane
Concen: 0.593 ug/L
RT: 10.181 min Scan# 2843
Delta R.T. 0.003 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

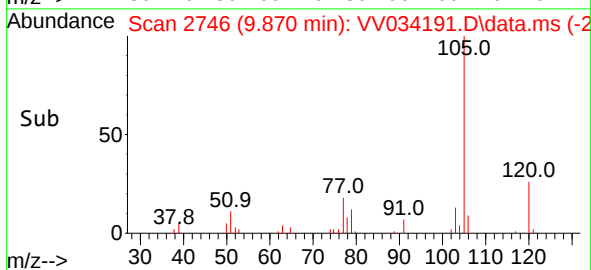
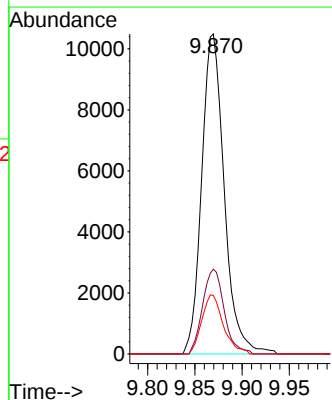
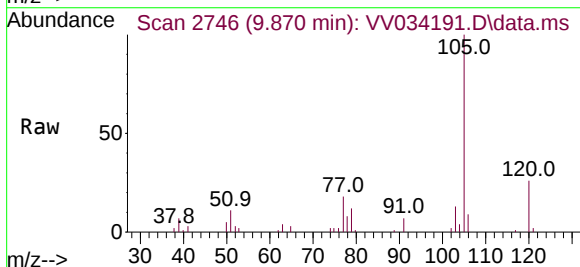
Instrument :
MSVOA_V
ClientSampleId :

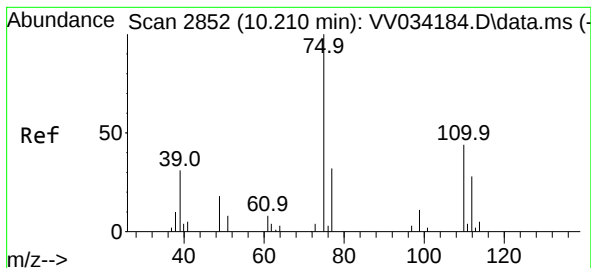
Tgt Ion: 83 Resp: 1830
Ion Ratio Lower Upper
83 100
85 52.3 46.5 86.3
131 0.0 8.4 12.6#



#60
Isopropylbenzene
Concen: 0.671 ug/L
RT: 9.870 min Scan# 2746
Delta R.T. 0.003 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Tgt Ion: 105 Resp: 17403
Ion Ratio Lower Upper
105 100
120 25.3 20.7 31.1
77 17.5 13.0 19.6





#61

1,2,3-Trichloropropane

Concen: 0.569 ug/L

RT: 10.358 min Scan# 21

Delta R.T. 0.148 min

Lab File: VV034191.D

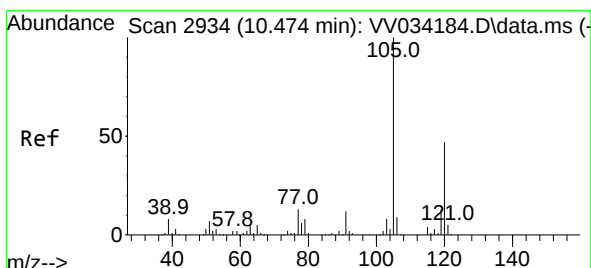
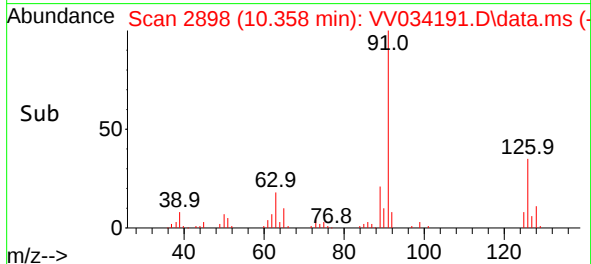
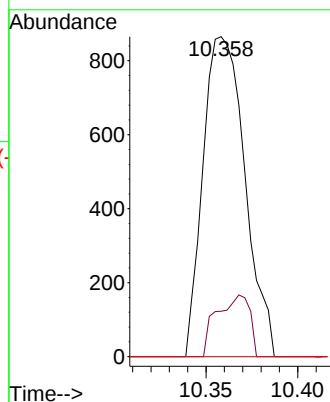
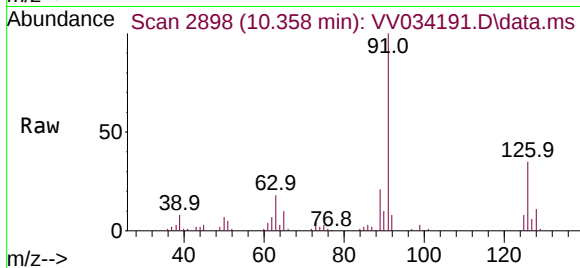
Acq: 15 Feb 2024 15:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	75	Resp:	1371
Ion	Ratio	Lower	Upper
75	100		
77	15.1	26.9	40.3#
110	0.0	33.3	49.9#



#62

1,3,5-Trimethylbenzene

Concen: 0.310 ug/L

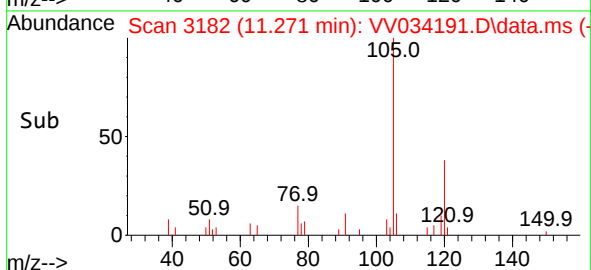
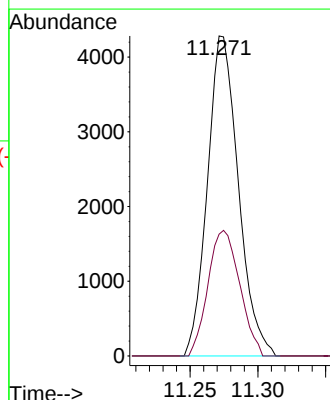
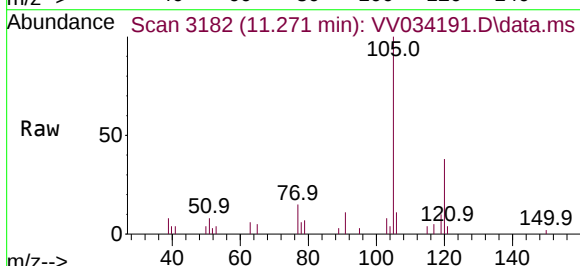
RT: 11.271 min Scan# 3182

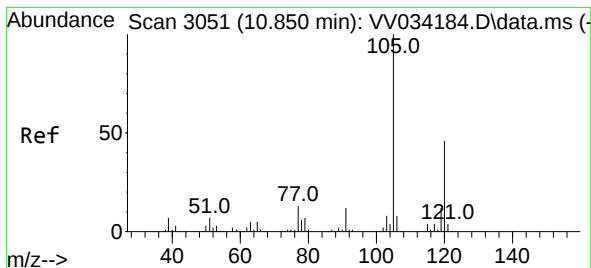
Delta R.T. 0.797 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

Tgt Ion:	105	Resp:	6800
Ion	Ratio	Lower	Upper
105	100		
120	40.2	38.2	57.4





#63

1,2,4-Trimethylbenzene

Concen: 0.319 ug/L

RT: 11.271 min Scan# 3182

Delta R.T. 0.421 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

Instrument :

MSVOA_V

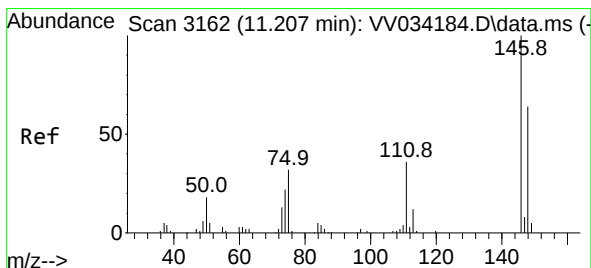
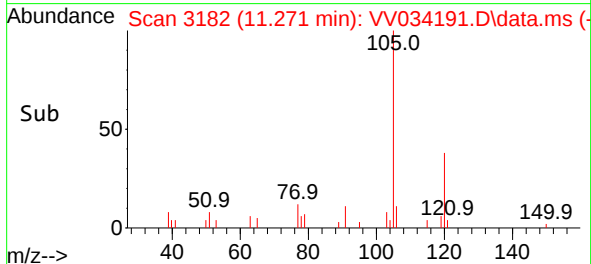
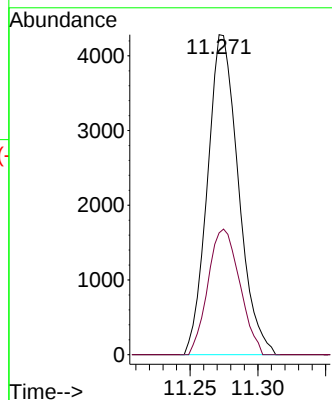
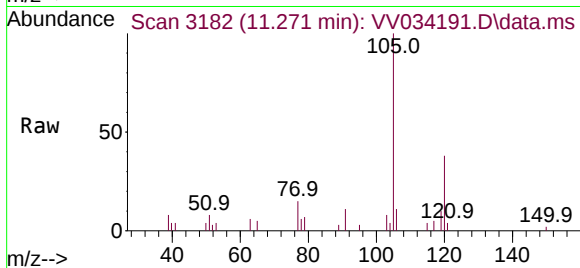
ClientSampleId :

Tgt Ion:105 Resp: 6800

Ion Ratio Lower Upper

105 100

120 40.2 36.2 54.2



#65

1,4-Dichlorobenzene

Concen: 0.902 ug/L

RT: 11.210 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VV034191.D

Acq: 15 Feb 2024 15:54

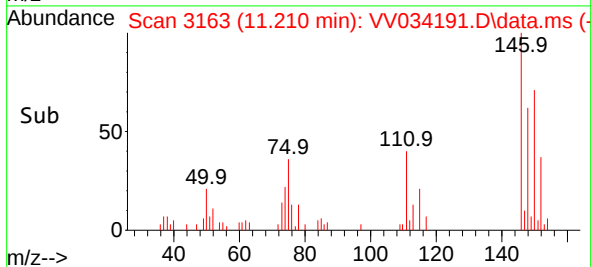
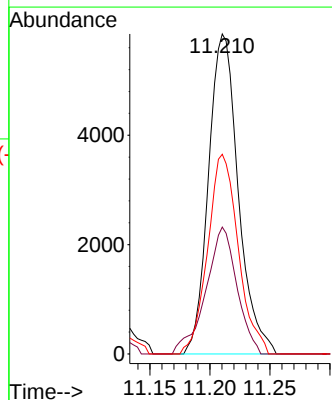
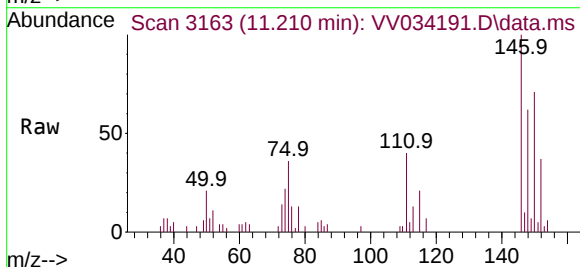
Tgt Ion:146 Resp: 10100

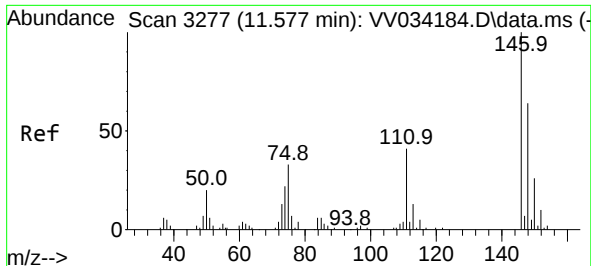
Ion Ratio Lower Upper

146 100

111 39.7 27.6 51.4

148 62.4 44.8 83.2

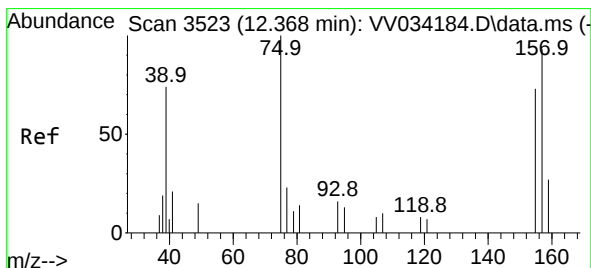
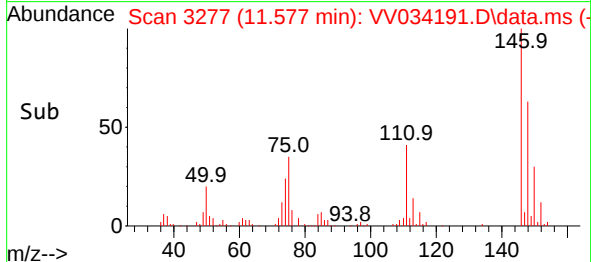
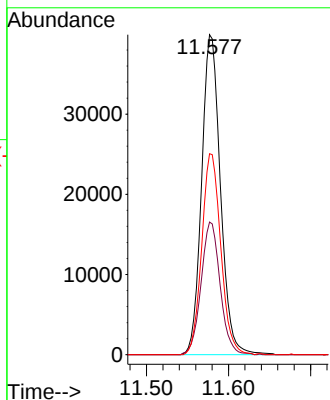
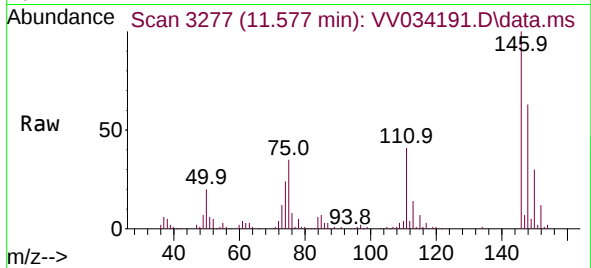




#67
 1,2-Dichlorobenzene
 Concen: 6.552 ug/L
 RT: 11.577 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV034191.D
 Acq: 15 Feb 2024 15:54

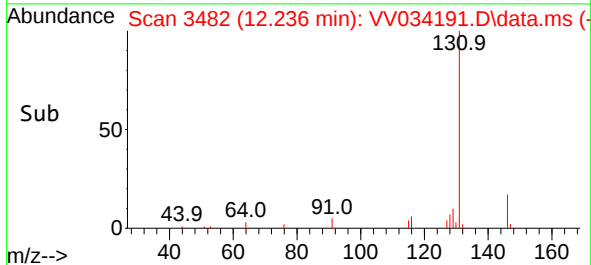
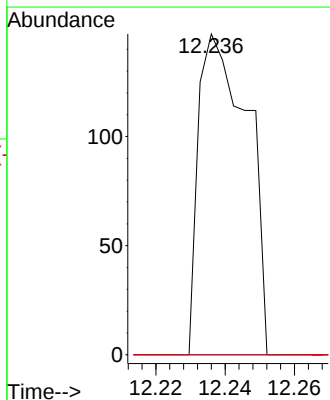
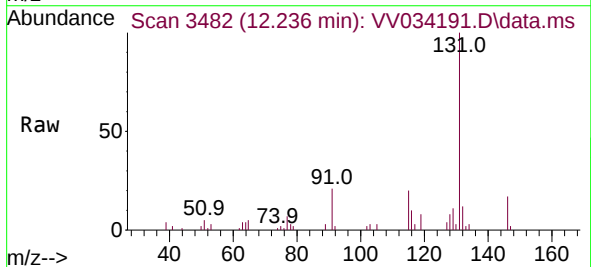
Instrument :
 MSVOA_V
 ClientSampleId :

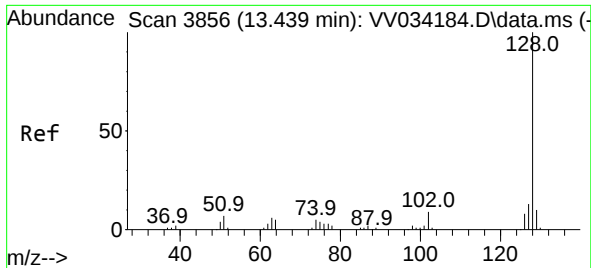
Tgt Ion:146 Resp: 63633
 Ion Ratio Lower Upper
 146 100
 111 41.5 31.2 46.8
 148 62.8 49.8 74.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.285 ug/L
 RT: 12.236 min Scan# 3482
 Delta R.T. -0.132 min
 Lab File: VV034191.D
 Acq: 15 Feb 2024 15:54

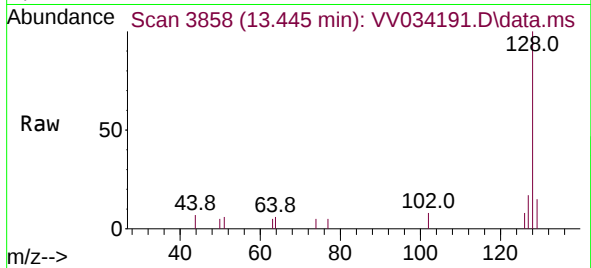
Tgt Ion: 75 Resp: 144
 Ion Ratio Lower Upper
 75 100
 155 0.0 68.9 103.3#
 157 0.0 84.6 127.0#





#71
Naphthalene
Concen: 0.396 ug/L
RT: 13.445 min Scan# 3858
Delta R.T. 0.006 min
Lab File: VV034191.D
Acq: 15 Feb 2024 15:54

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 3545
Ion Ratio Lower Upper
128 100
129 7.6 8.5 12.7#
127 11.5 10.4 15.6

