

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW011624\
 Data File : VW033698.D
 Acq On : 17 Jan 2024 02:32
 Operator : SY/MD
 Sample : P1143-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 17 03:33:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jan 17 01:35:32 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.603	114	100163	5.000	ug/L	0.07
28) Chlorobenzene-d5	8.805	117	89511	5.000	ug/L	0.02
58) 1,4-Dichlorobenzene-d4	11.191	152	38591	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.333	65	19949	3.642	ug/L	0.05
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.800%
7) Chloroethane-d5	1.616	69	15235	3.136	ug/L	0.08
Spiked Amount	5.000	Range	65 - 130	Recovery	=	62.800%#
11) 1,1-Dichloroethene-d2	2.146	65	9508	3.852	ug/L	0.08
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.000%
20) 2-Butanone-d5	3.998	46	29566	22.078	ug/L	0.19
Spiked Amount	50.000	Range	40 - 130	Recovery	=	44.160%
24) Chloroform-d	4.339	84	49805	4.205	ug/L	0.09
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.000%
26) 1,2-Dichloroethane-d4	5.014	65	26078	4.910	ug/L	0.07
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.200%
32) Benzene-d6	5.018	84	94846	4.391	ug/L	0.05
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.800%
36) 1,2-Dichloropropane-d6	6.072	67	31325	4.350	ug/L	0.08
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.000%
41) Toluene-d8	7.288	98	81458	4.225	ug/L	0.04
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.400%
43) trans-1,3-Dichloroprop...	7.600	79	10235	4.111	ug/L	0.04
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.200%
46) 2-Hexanone-d5	8.069	63	54572	55.835	ug/L	0.04
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.680%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	21229	5.046	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.000%
66) 1,2-Dichlorobenzene-d4	11.564	152	26810	4.525	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.400%
Target Compounds						
					Qvalue	
15) Methyl Acetate	2.458	43	3351	1.290	ug/L #	56
30) Cyclohexane	4.641	56	26925	1.770	ug/L	94
33) Benzene	5.069	78	45137	1.420	ug/L	100
35) Methylcyclohexane	6.121	83	38366	2.679	ug/L	98
37) 1,2-Dichloropropane	6.072	63	4294	0.544	ug/L #	87
39) cis-1,3-Dichloropropene	6.969	75	936	0.083	ug/L #	18
42) Toluene	7.362	91	28020	0.834	ug/L	99
44) trans-1,3-Dichloropropene	7.834	75	1051	0.116	ug/L	96
45) 1,1,2-Trichloroethane	7.751	97	4107	0.937	ug/L #	20
51) Chlorobenzene	8.831	112	705911	34.286	ug/L	99
52) Ethylbenzene	8.973	91	7617	0.196	ug/L	93
53) m,p-Xylene	9.095	106	5219	0.364	ug/L	84
54) o-Xylene	9.490	106	44472	3.184	ug/L	99
55) Styrene	9.490	104	2461	0.111	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.185	83	1565	0.325	ug/L #	50
60) Isopropylbenzene	9.876	105	258503	8.467	ug/L	99
61) 1,2,3-Trichloropropane	10.297	75	3490	1.128	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.484	105	120943	4.585	ug/L	100
63) 1,2,4-Trimethylbenzene	10.857	105	60504	2.272	ug/L	100

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Misc : 25.0mL/MSVOA_V/WATER
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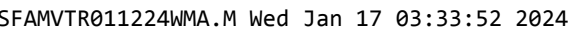
Instrument :
MSVOA_V
ClientSampleId :

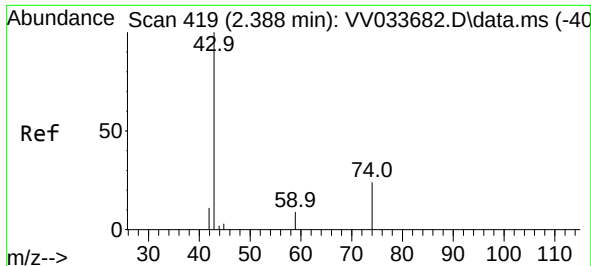
Quant Time: Jan 17 03:33:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011224WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Jan 17 01:35:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.124	146	23399	1.733	ug/L	98
65) 1,4-Dichlorobenzene	11.214	146	91052	6.886	ug/L	99
67) 1,2-Dichlorobenzene	11.583	146	49643	4.230	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.352	75	3370	4.957	ug/L #	5
70) 1,2,4-trichlorobenzene	13.201	180	2455	0.281	ug/L #	1
71) Naphthalene	13.426	128	5367	0.368	ug/L #	1

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

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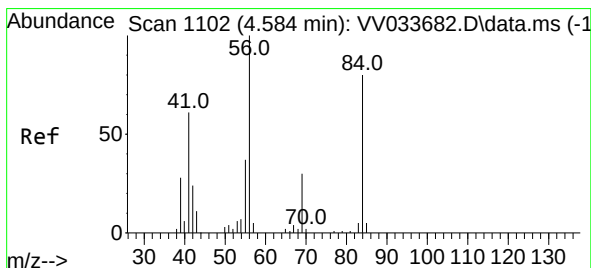
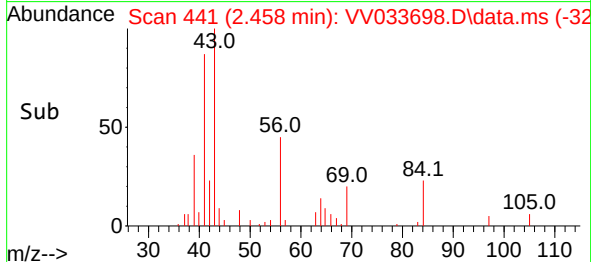
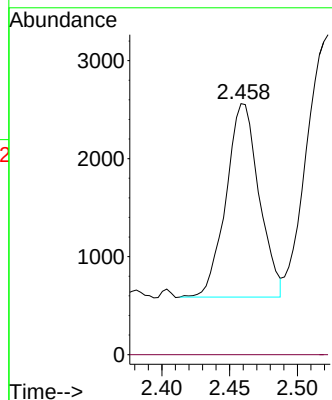
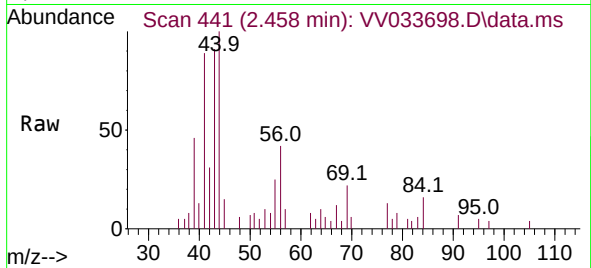




#15
Methyl Acetate
Concen: 1.290 ug/L
RT: 2.458 min Scan# 419
Delta R.T. 0.071 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

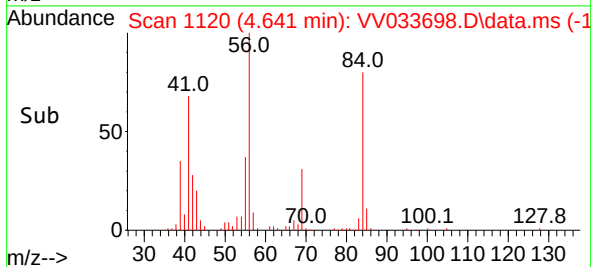
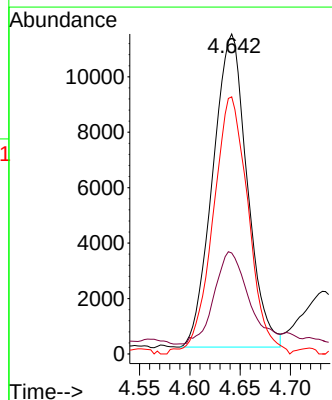
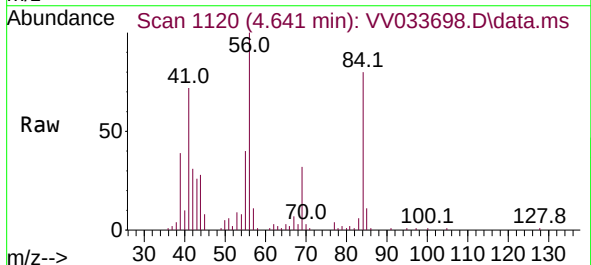
Instrument :
MSVOA_V
ClientSampleId :

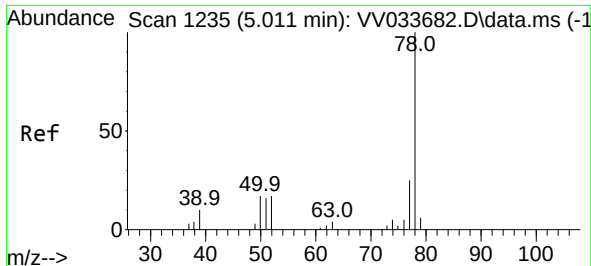
Tgt Ion: 43 Resp: 3351
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#30
Cyclohexane
Concen: 1.770 ug/L
RT: 4.641 min Scan# 1120
Delta R.T. 0.058 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

Tgt Ion: 56 Resp: 26925
Ion Ratio Lower Upper
56 100
69 29.3 23.3 34.9
84 84.3 61.7 92.5

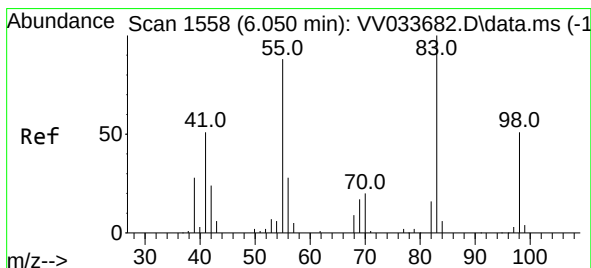
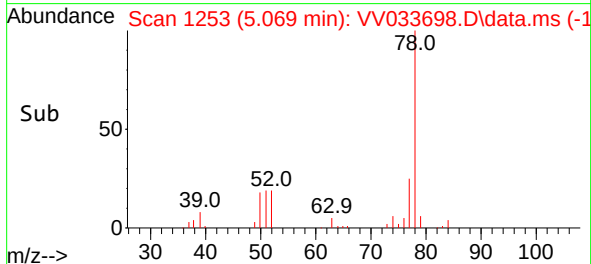
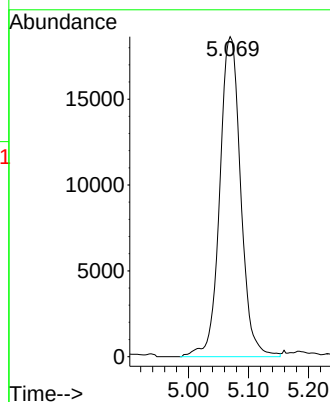
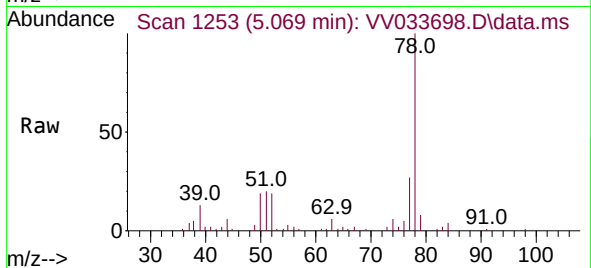




#33
Benzene
Concen: 1.420 ug/L
RT: 5.069 min Scan# 11
Delta R.T. 0.058 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

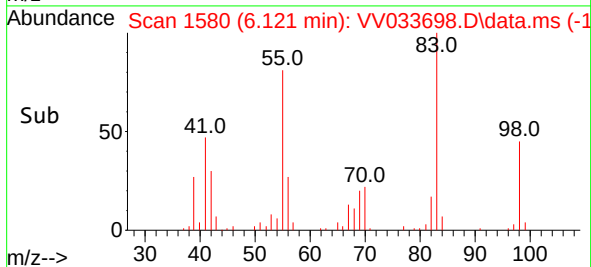
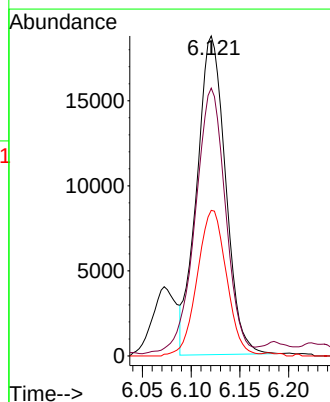
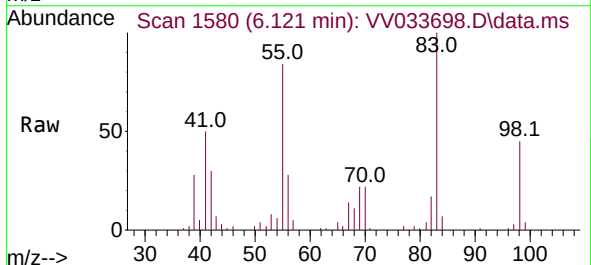
Instrument :
MSVOA_V
ClientSampleId :

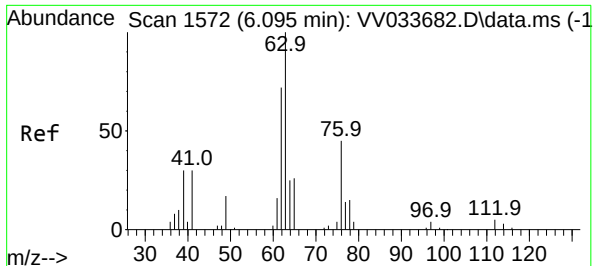
Tgt Ion: 78 Resp: 45137



#35
Methylcyclohexane
Concen: 2.679 ug/L
RT: 6.121 min Scan# 1580
Delta R.T. 0.071 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

Tgt Ion: 83 Resp: 38366
Ion Ratio Lower Upper
83 100
55 88.0 68.7 103.1
98 46.7 38.3 57.5





#37

1,2-Dichloropropane

Concen: 0.544 ug/L

RT: 6.072 min Scan# 1

Delta R.T. -0.023 min

Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

Instrument :

MSVOA_V

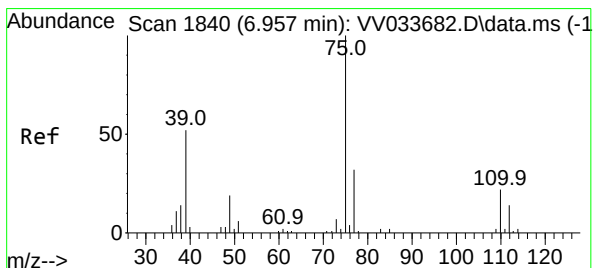
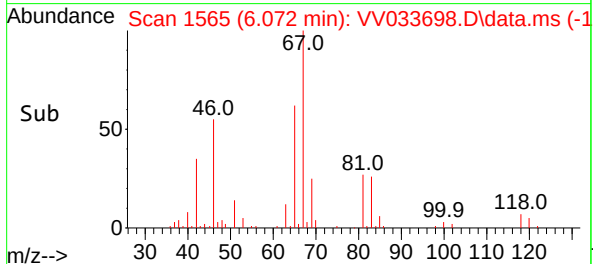
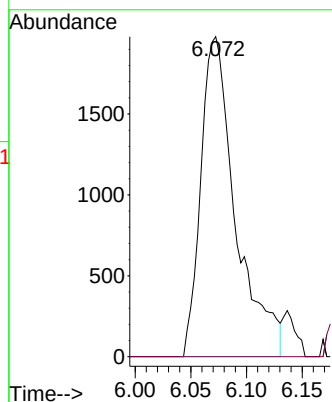
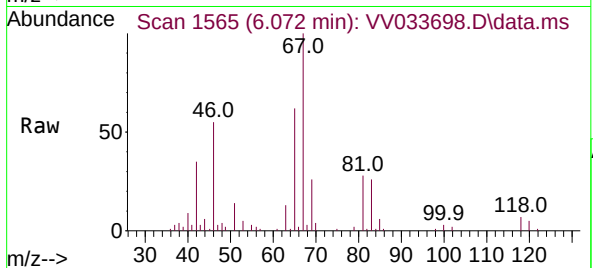
ClientSampleId :

Tgt Ion: 63 Resp: 4294

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



#39

cis-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 6.969 min Scan# 1844

Delta R.T. 0.013 min

Lab File: VV033698.D

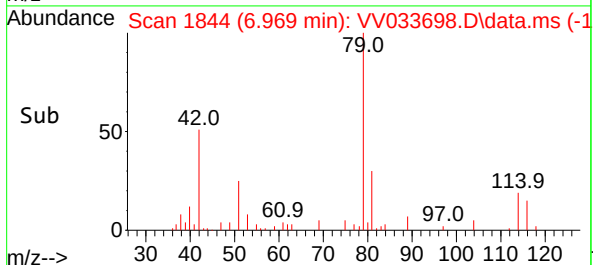
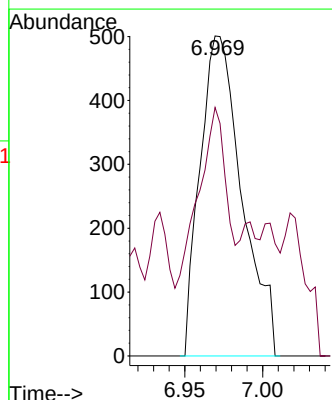
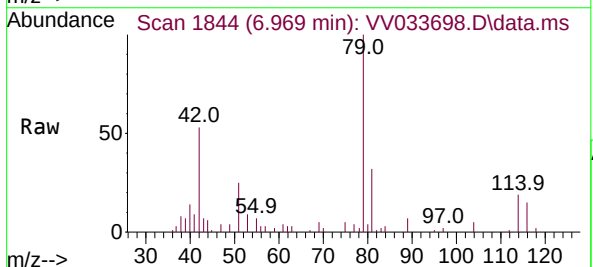
Acq: 17 Jan 2024 02:32

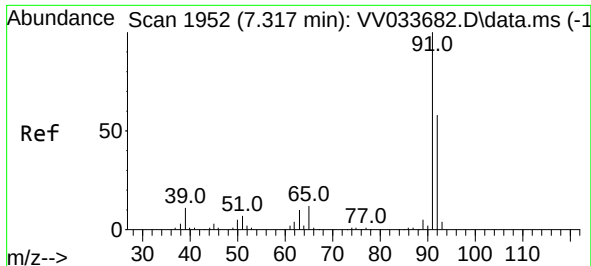
Tgt Ion: 75 Resp: 936

Ion Ratio Lower Upper

75 100

77 77.6 22.5 41.7#





#42

Toluene

Concen: 0.834 ug/L

RT: 7.362 min Scan# 1952

Delta R.T. 0.045 min

Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

Instrument :

MSVOA_V

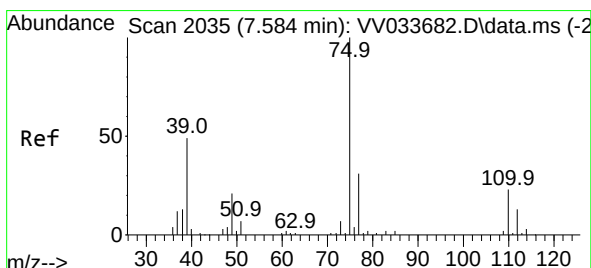
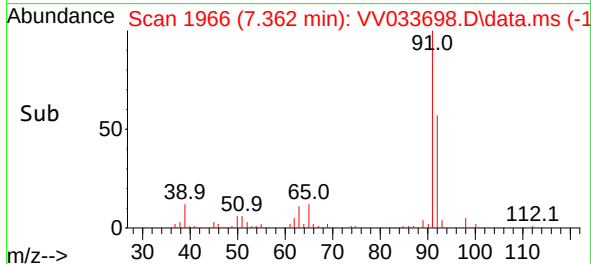
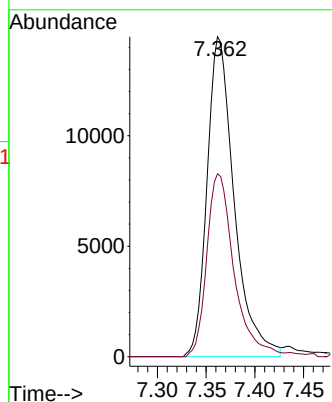
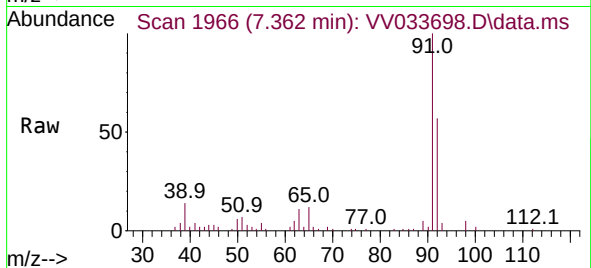
ClientSampleId :

Tgt Ion: 91 Resp: 28020

Ion Ratio Lower Upper

91 100

92 57.2 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 0.116 ug/L

RT: 7.834 min Scan# 2113

Delta R.T. 0.251 min

Lab File: VV033698.D

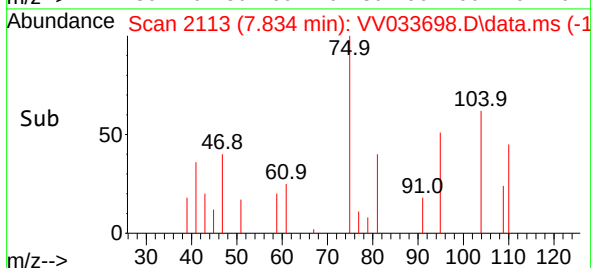
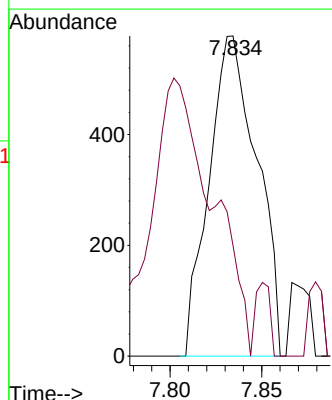
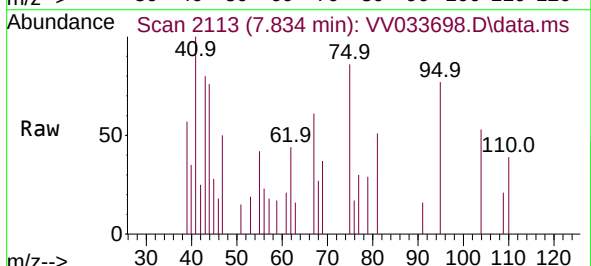
Acq: 17 Jan 2024 02:32

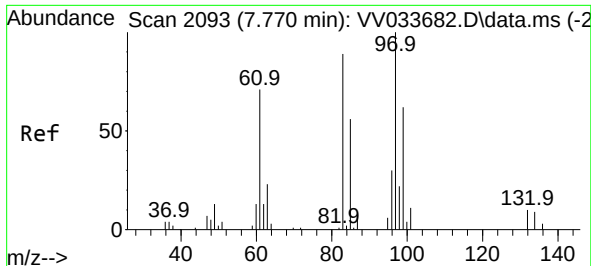
Tgt Ion: 75 Resp: 1051

Ion Ratio Lower Upper

75 100

77 34.6 22.5 41.7





#45

1,1,2-Trichloroethane

Concen: 0.937 ug/L

RT: 7.751 min Scan# 2093

Delta R.T. -0.019 min

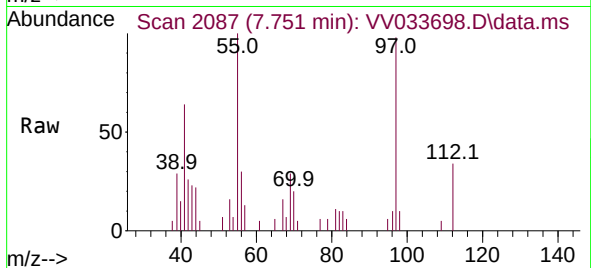
Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 97 Resp: 4107

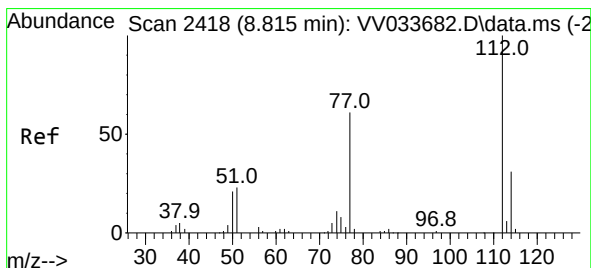
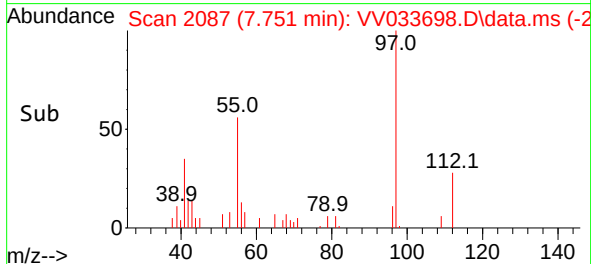
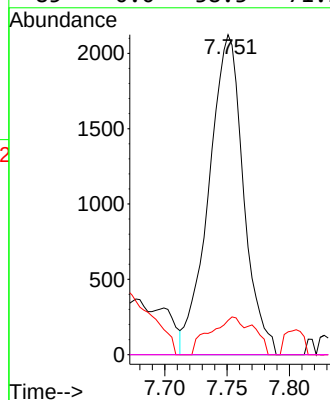
Ion Ratio Lower Upper

97 100

99 0.0 44.9 83.3#

83 10.7 60.5 112.3#

85 0.0 38.3 71.1#



#51

Chlorobenzene

Concen: 34.286 ug/L

RT: 8.831 min Scan# 2423

Delta R.T. 0.016 min

Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

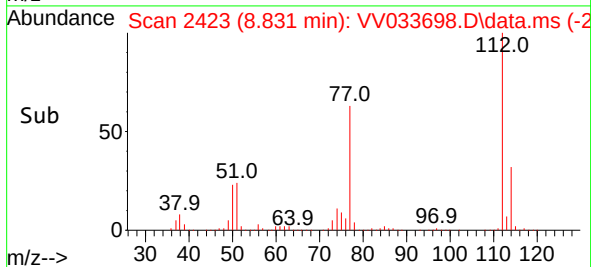
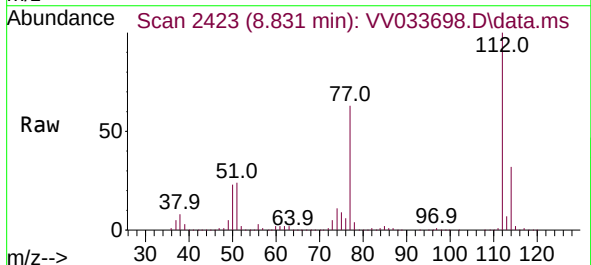
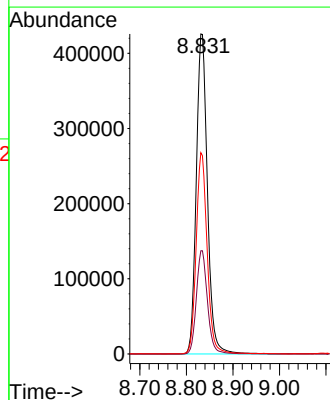
Tgt Ion: 112 Resp: 705911

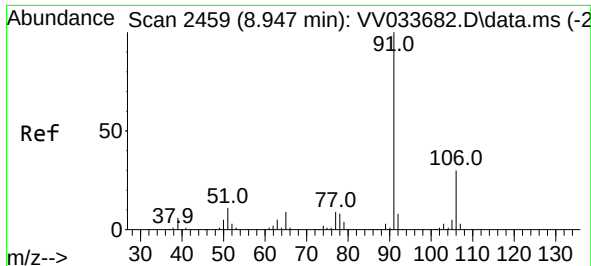
Ion Ratio Lower Upper

112 100

114 32.3 22.9 42.5

77 62.9 50.8 76.2

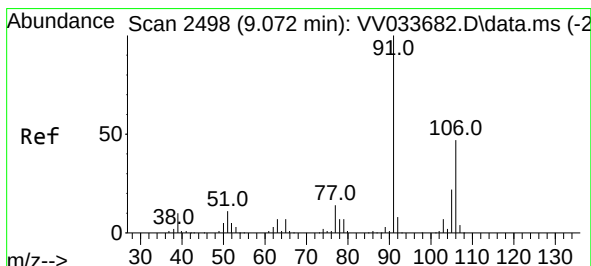
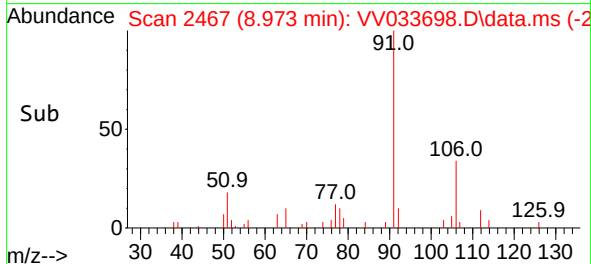
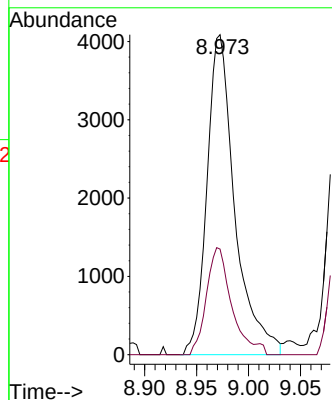
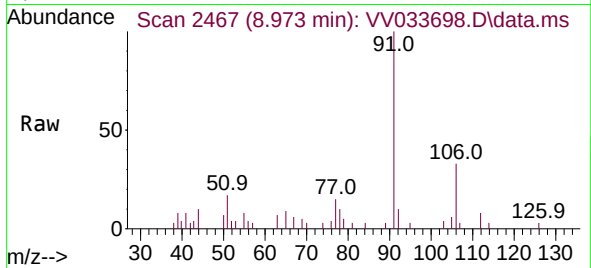




#52
Ethylbenzene
Concen: 0.196 ug/L
RT: 8.973 min Scan# 24
Delta R.T. 0.026 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

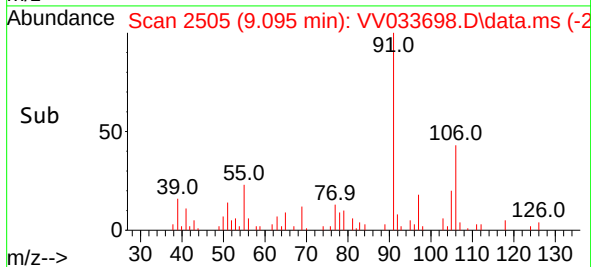
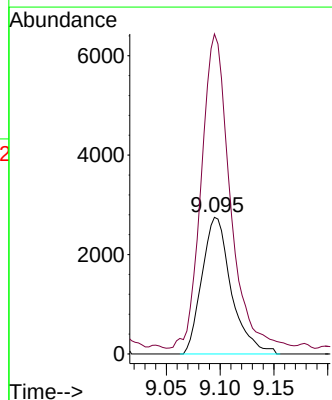
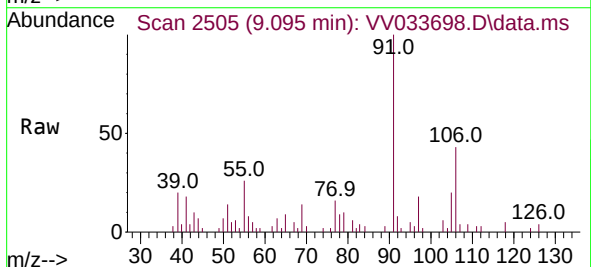
Instrument :
MSVOA_V
ClientSampleId :

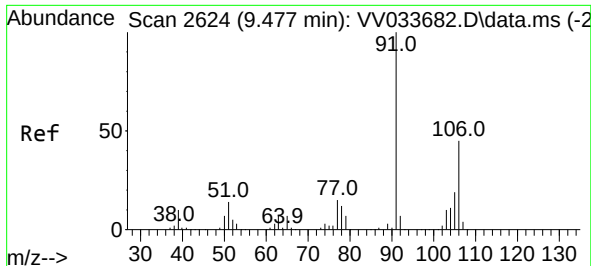
Tgt Ion: 91 Resp: 7617
Ion Ratio Lower Upper
91 100
106 33.0 20.6 38.4



#53
m,p-Xylene
Concen: 0.364 ug/L
RT: 9.095 min Scan# 2505
Delta R.T. 0.022 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

Tgt Ion: 106 Resp: 5219
Ion Ratio Lower Upper
106 100
91 234.1 146.2 271.4

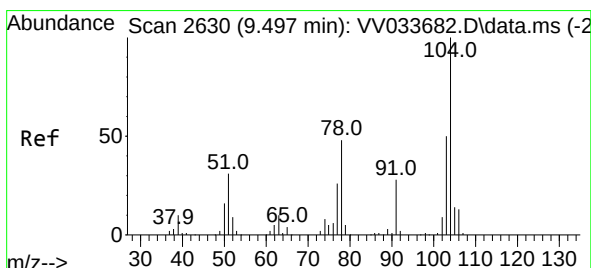
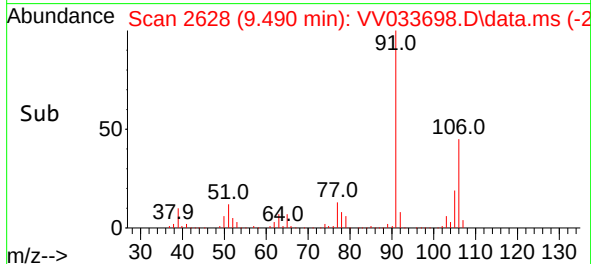
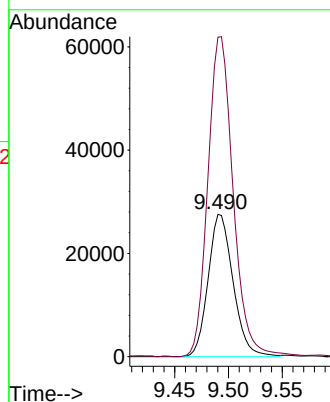
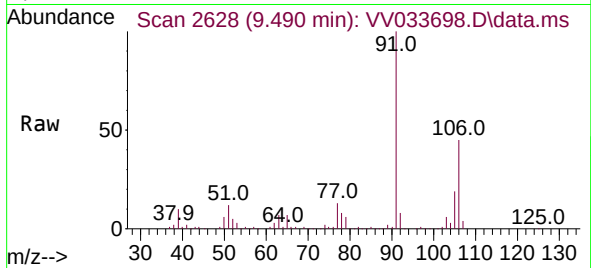




#54
o-Xylene
Concen: 3.184 ug/L
RT: 9.490 min Scan# 2628
Delta R.T. 0.013 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

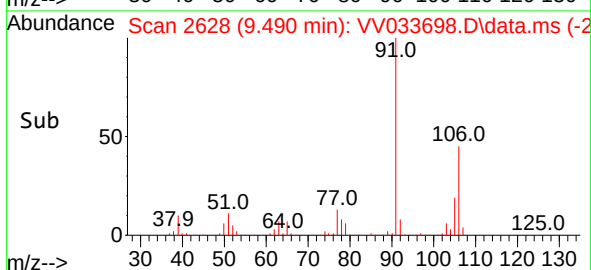
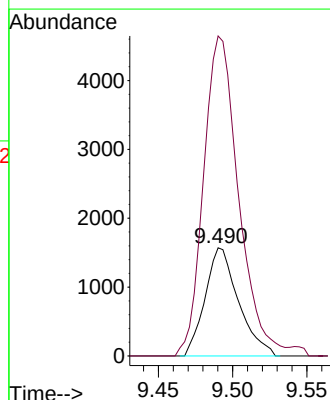
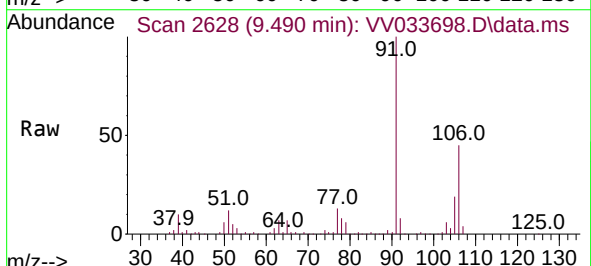
Instrument :
MSVOA_V
ClientSampleId :

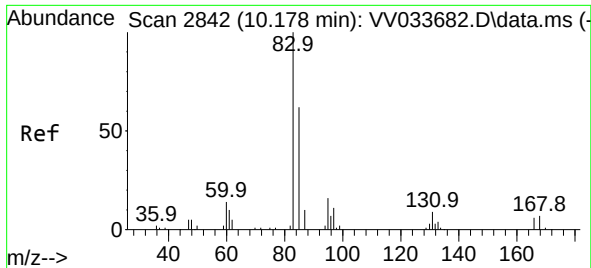
Tgt Ion:106 Resp: 44472
Ion Ratio Lower Upper
106 100
91 224.4 156.0 289.6



#55
Styrene
Concen: 0.111 ug/L
RT: 9.490 min Scan# 2628
Delta R.T. -0.007 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

Tgt Ion:104 Resp: 2461
Ion Ratio Lower Upper
104 100
78 295.8 33.1 61.5#





#57

1,1,2,2-Tetrachloroethane

Concen: 0.325 ug/L

RT: 10.185 min Scan# 21

Delta R.T. 0.006 min

Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

Instrument :

MSVOA_V

ClientSampleId :

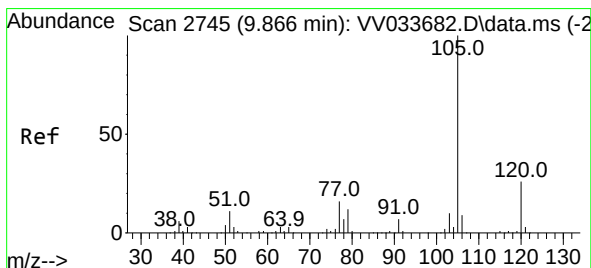
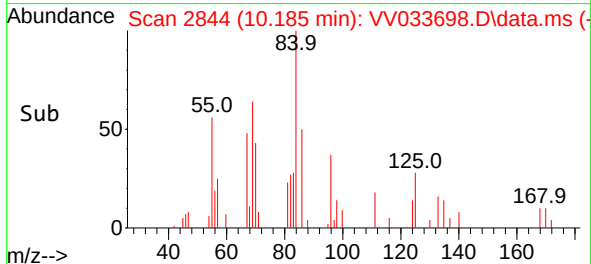
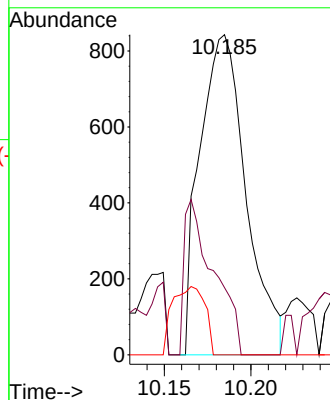
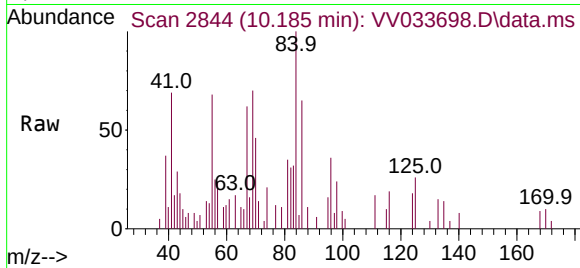
Tgt Ion: 83 Resp: 1565

Ion Ratio Lower Upper

83 100

85 21.0 43.5 80.7#

131 0.0 7.4 11.0#



#60

Isopropylbenzene

Concen: 8.467 ug/L

RT: 9.876 min Scan# 2748

Delta R.T. 0.010 min

Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

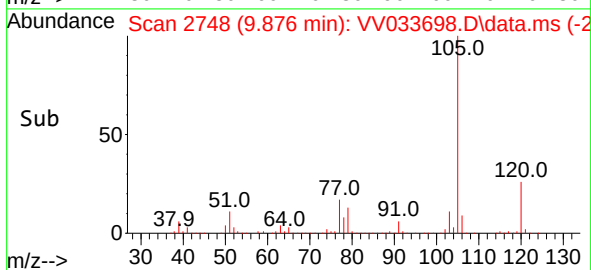
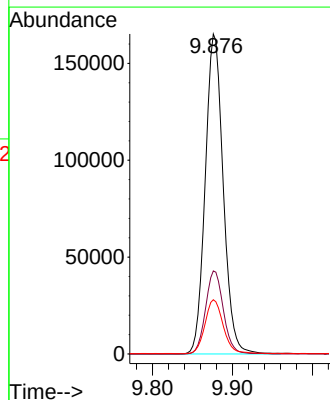
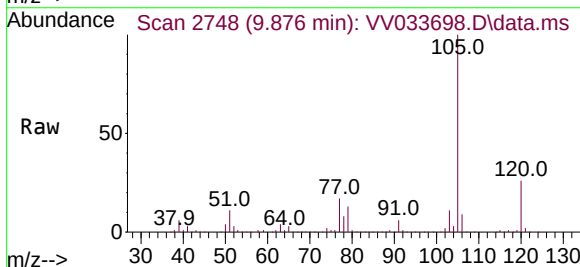
Tgt Ion: 105 Resp: 258503

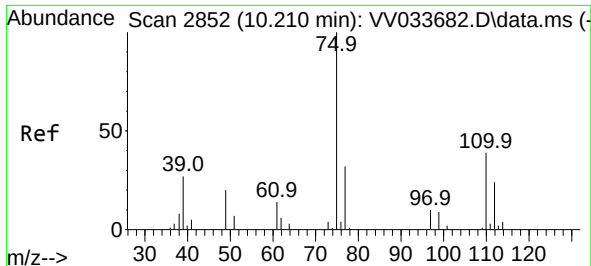
Ion Ratio Lower Upper

105 100

120 25.7 21.0 31.6

77 17.1 13.4 20.0

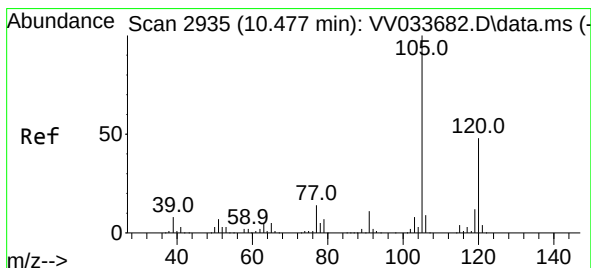
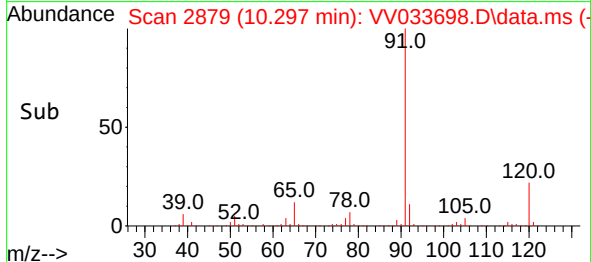
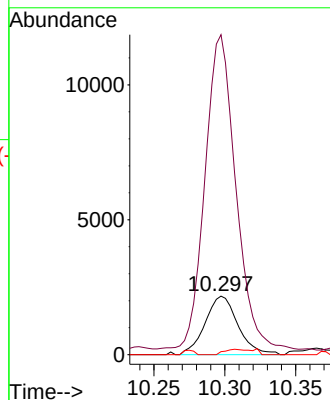
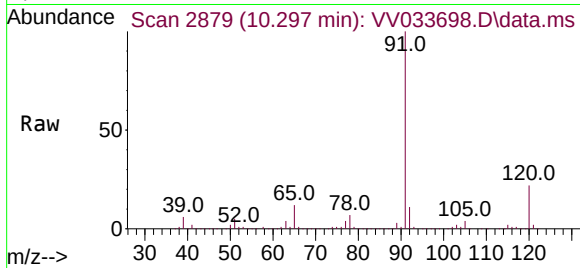




#61
 1,2,3-Trichloropropane
 Concen: 1.128 ug/L
 RT: 10.297 min Scan# 21
 Delta R.T. 0.087 min
 Lab File: VV033698.D
 Acq: 17 Jan 2024 02:32

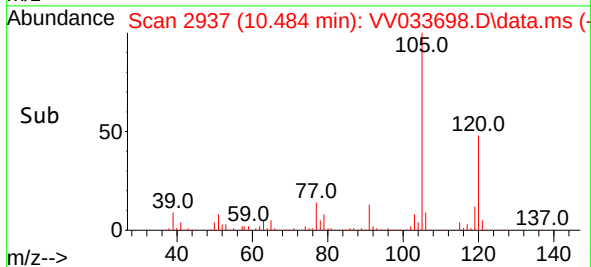
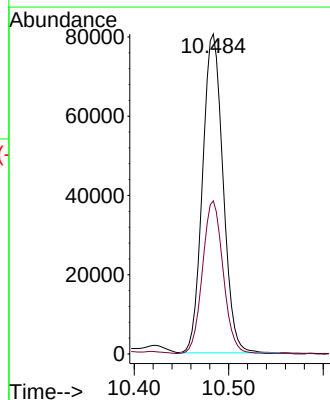
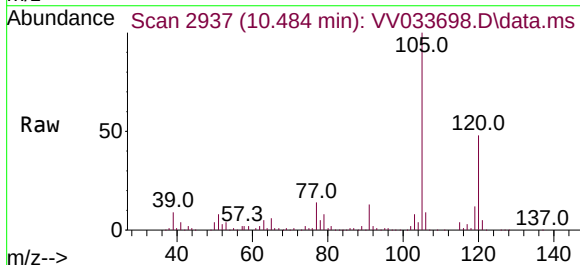
Instrument :
 MSVOA_V
 ClientSampleId :

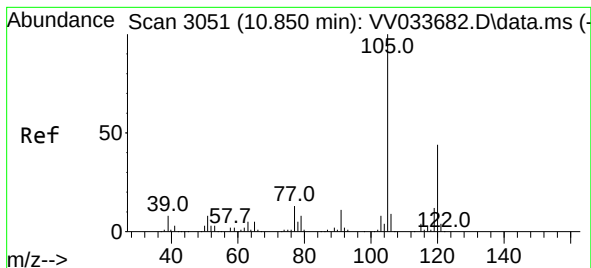
Tgt Ion: 75 Resp: 3490
 Ion Ratio Lower Upper
 75 100
 77 503.2 24.7 37.1#
 110 5.3 28.0 42.0#



#62
 1,3,5-Trimethylbenzene
 Concen: 4.585 ug/L
 RT: 10.484 min Scan# 2937
 Delta R.T. 0.006 min
 Lab File: VV033698.D
 Acq: 17 Jan 2024 02:32

Tgt Ion: 105 Resp: 120943
 Ion Ratio Lower Upper
 105 100
 120 48.2 38.3 57.5





#63

1,2,4-Trimethylbenzene

Concen: 2.272 ug/L

RT: 10.857 min Scan# 3051

Delta R.T. 0.006 min

Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

Instrument :

MSVOA_V

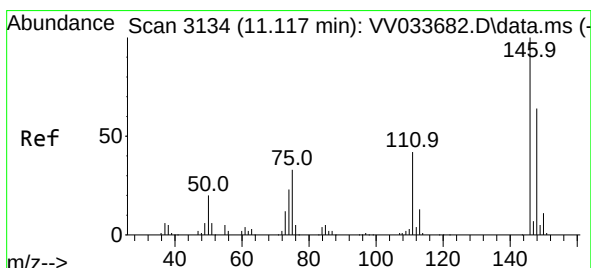
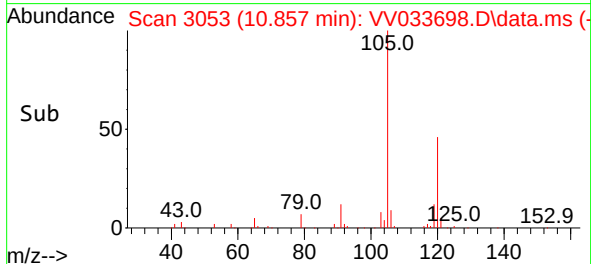
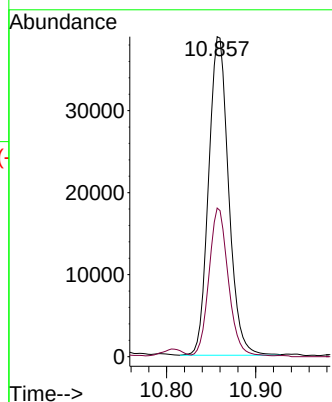
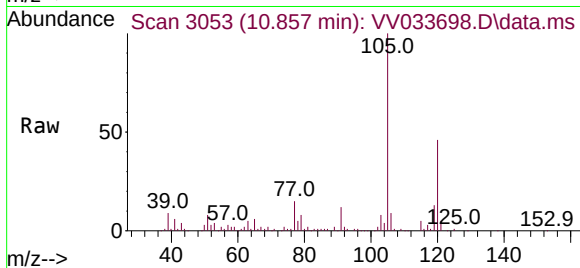
ClientSampleId :

Tgt Ion:105 Resp: 60504

Ion Ratio Lower Upper

105 100

120 44.5 35.5 53.3



#64

1,3-Dichlorobenzene

Concen: 1.733 ug/L

RT: 11.124 min Scan# 3136

Delta R.T. 0.006 min

Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

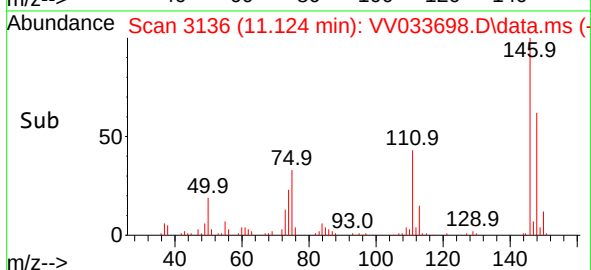
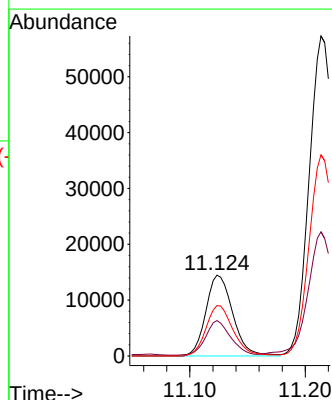
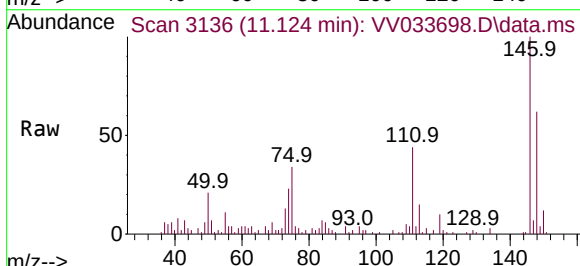
Tgt Ion:146 Resp: 23399

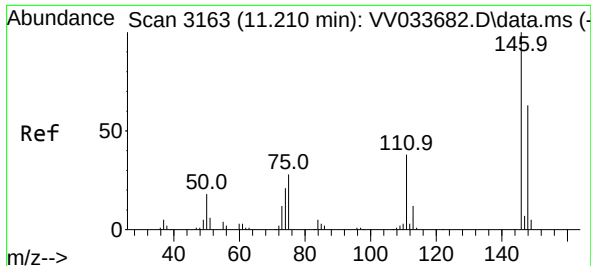
Ion Ratio Lower Upper

146 100

111 43.6 29.2 54.2

148 62.3 44.1 81.9

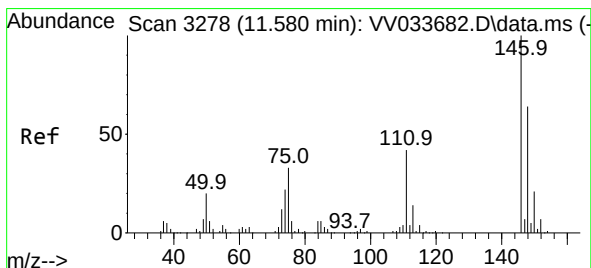
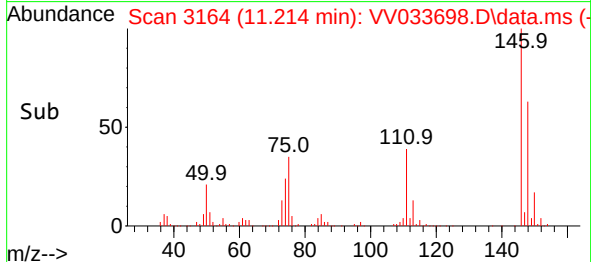
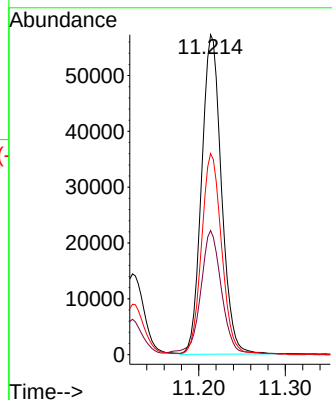
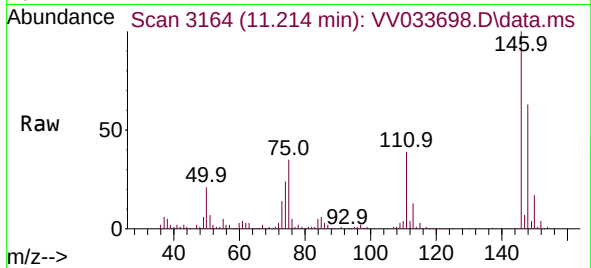




#65
1,4-Dichlorobenzene
Concen: 6.886 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

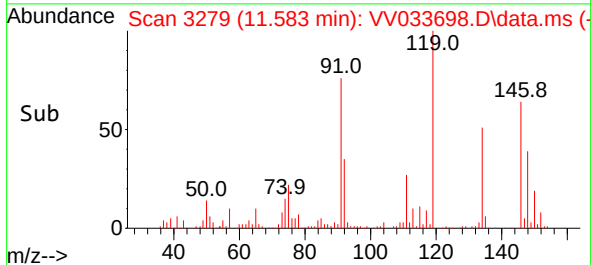
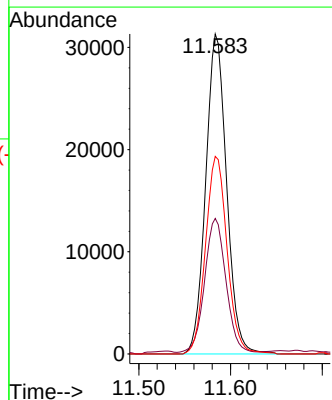
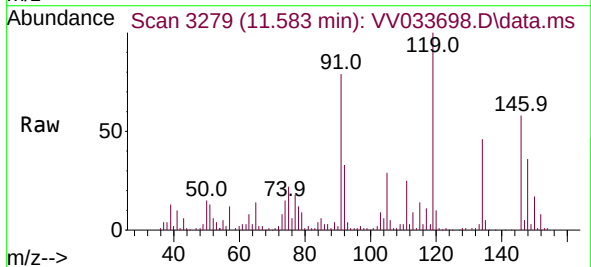
Instrument :
MSVOA_V
ClientSampleId :

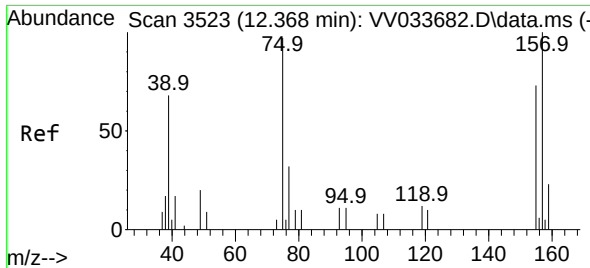
Tgt Ion:146 Resp: 91052
Ion Ratio Lower Upper
146 100
111 38.8 27.5 51.1
148 62.8 43.3 80.5



#67
1,2-Dichlorobenzene
Concen: 4.230 ug/L
RT: 11.583 min Scan# 3279
Delta R.T. 0.003 min
Lab File: VV033698.D
Acq: 17 Jan 2024 02:32

Tgt Ion:146 Resp: 49643
Ion Ratio Lower Upper
146 100
111 42.4 36.1 54.1
148 61.8 52.2 78.2

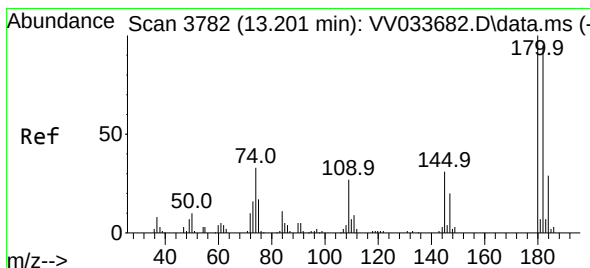
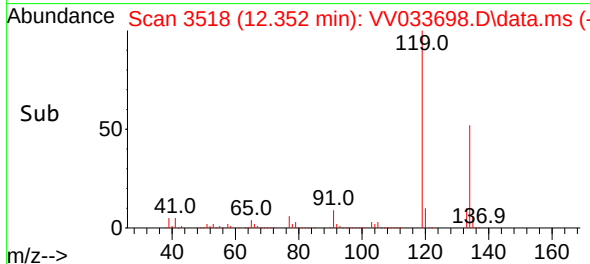
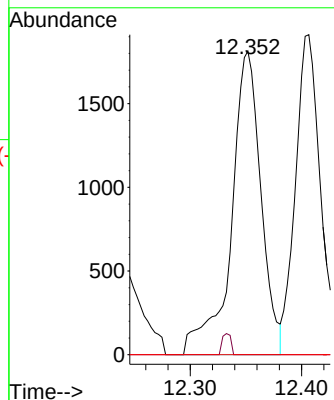
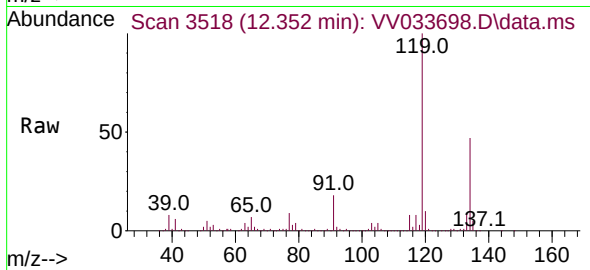




#68
 1,2-Dibromo-3-chloropropane
 Concen: 4.957 ug/L
 RT: 12.352 min Scan# 3518
 Delta R.T. -0.016 min
 Lab File: VV033698.D
 Acq: 17 Jan 2024 02:32

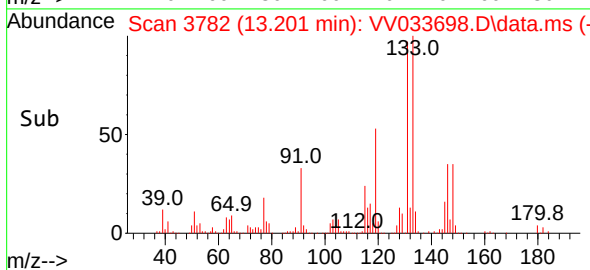
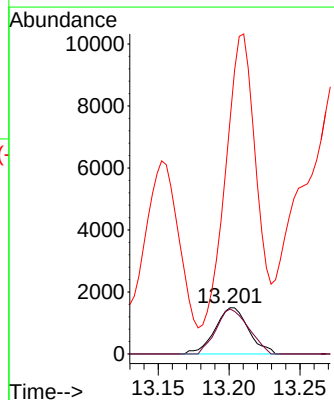
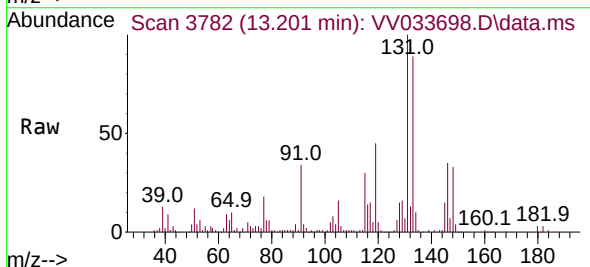
Instrument :
 MSVOA_V
 ClientSampleId :

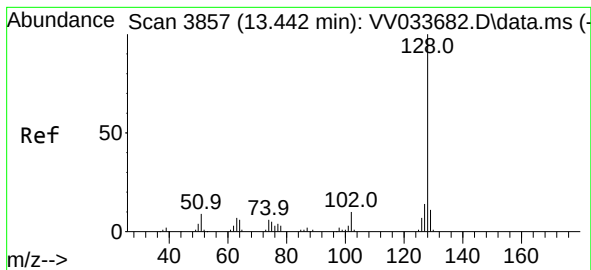
Tgt Ion: 75 Resp: 3370
 Ion Ratio Lower Upper
 75 100
 155 0.0 65.3 97.9#
 157 0.0 75.4 113.0#



#70
 1,2,4-trichlorobenzene
 Concen: 0.281 ug/L
 RT: 13.201 min Scan# 3782
 Delta R.T. -0.000 min
 Lab File: VV033698.D
 Acq: 17 Jan 2024 02:32

Tgt Ion:180 Resp: 2455
 Ion Ratio Lower Upper
 180 100
 182 93.6 75.0 112.6
 145 569.0 24.8 37.2#





#71

Naphthalene

Concen: 0.368 ug/L

RT: 13.426 min Scan# 3852

Delta R.T. -0.016 min

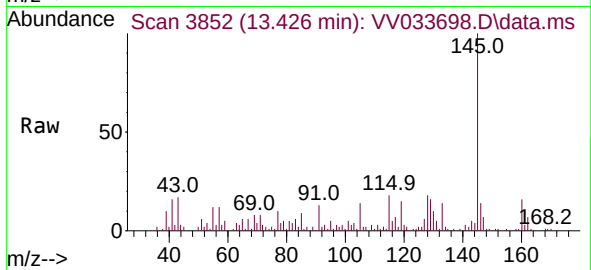
Lab File: VV033698.D

Acq: 17 Jan 2024 02:32

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:128 Resp: 5367

Ion Ratio Lower Upper

128 100

129 88.4 8.8 13.2#

127 28.2 10.4 15.6#

