

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW040324\
 Data File : VW034958.D
 Acq On : 03 Apr 2024 15:51
 Operator : SY/MD
 Sample : P1925-18 200X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 04 02:54:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR040224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Apr 04 02:49:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	184593	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	188521	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.184	152	97211	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	66434	4.367	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.400%
7) Chloroethane-d5	1.532	69	59529	4.746	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.000%
11) 1,1-Dichloroethene-d2	2.059	65	30847	4.464	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.200%
20) 2-Butanone-d5	3.805	46	94192	39.572	ug/L	-0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	79.140%
24) Chloroform-d	4.249	84	122581	4.980	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.600%
26) 1,2-Dichloroethane-d4	4.944	65	60900	5.478	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.600%
32) Benzene-d6	4.960	84	245384	4.976	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.600%
36) 1,2-Dichloropropane-d6	5.989	67	77463	5.352	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.000%
41) Toluene-d8	7.243	98	207994	4.643	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.800%
43) trans-1,3-Dichloroprop...	7.561	79	25123	4.886	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.800%
46) 2-Hexanone-d5	8.027	63	100530	56.968	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.940%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	55357	5.481	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.600%
66) 1,2-Dichlorobenzene-d4	11.561	152	79500	5.192	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	8011	0.435	ug/L #	76
8) Chloroethane	1.281	64	3700	0.312	ug/L #	74
16) Methylene chloride	2.449	84	2843	0.185	ug/L	91
22) cis-1,2-Dichloroethene	3.812	96	610529	41.967	ug/L	97
33) Benzene	5.018	78	19531	0.338	ug/L	100
34) Trichloroethene	5.834	95	58170	3.868	ug/L	98
35) Methylcyclohexane	6.046	83	4147	0.181	ug/L	93
37) 1,2-Dichloropropane	5.992	63	8873	0.593	ug/L #	87
42) Toluene	7.313	91	2130443	35.116	ug/L	97
44) trans-1,3-Dichloropropene	7.558	75	1341	0.080	ug/L #	66
47) Tetrachloroethene	7.902	164	265845	23.530	ug/L	98
48) 2-Hexanone	8.088	43	16779	3.292	ug/L #	96
49) Dibromochloromethane	7.902	129	238440	20.602	ug/L #	9
51) Chlorobenzene	8.815	112	139808	3.567	ug/L	99
52) Ethylbenzene	8.947	91	80114	1.223	ug/L	98
53) m,p-Xylene	9.069	106	126516	5.258	ug/L	98
54) o-Xylene	9.480	106	39428	1.670	ug/L	95
55) Styrene	9.477	104	2196	0.058	ug/L #	1
60) Isopropylbenzene	9.869	105	10552	0.174	ug/L #	84

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Instrument :
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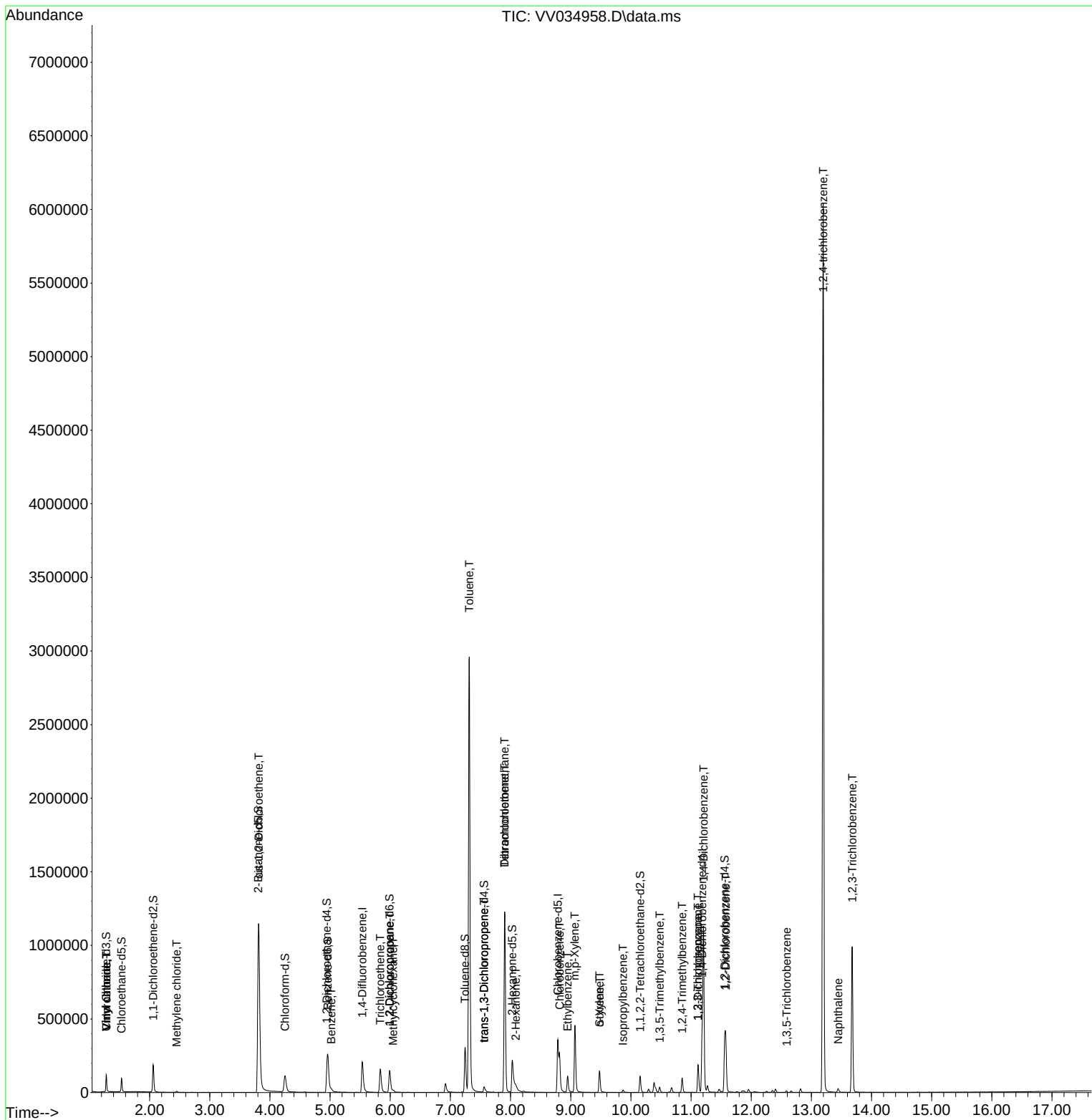
Quant Time: Apr 04 02:54:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR040224WMA.M
 Quant Title : TRACE VOA SFAM1.0
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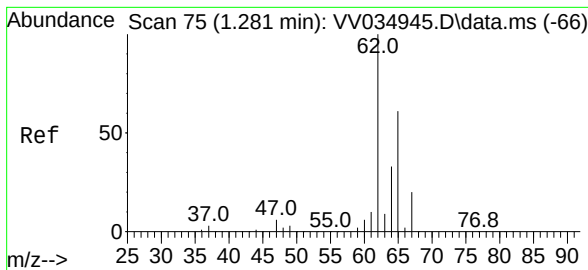
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

61) 1,2,3-Trichloropropane	11.117	75	22871	2.520	ug/L #	74
62) 1,3,5-Trimethylbenzene	10.477	105	18900	0.379	ug/L	99
63) 1,2,4-Trimethylbenzene	10.853	105	51492	1.017	ug/L	96
64) 1,3-Dichlorobenzene	11.117	146	76444	2.465	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	426718	13.740	ug/L	99
67) 1,2-Dichlorobenzene	11.577	146	119923	4.186	ug/L	97
69) 1,3,5-Trichlorobenzene	12.590	180	3108	0.133	ug/L	95
70) 1,2,4-trichlorobenzene	13.197	180	1714063	94.773	ug/L	99
71) Naphthalene	13.445	128	20982	0.825	ug/L	99
72) 1,2,3-Trichlorobenzene	13.680	180	293306	18.440	ug/L	99

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

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#5

Vinyl chloride

Concen: 0.435 ug/L

RT: 1.281 min Scan# 75

Delta R.T. -0.000 min MSVOA_V

Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

Instrument :

MSVOA_V

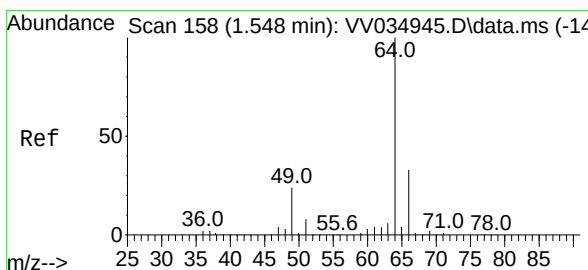
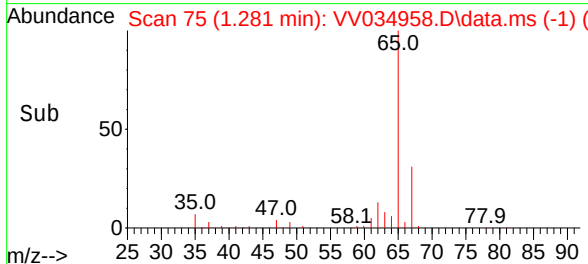
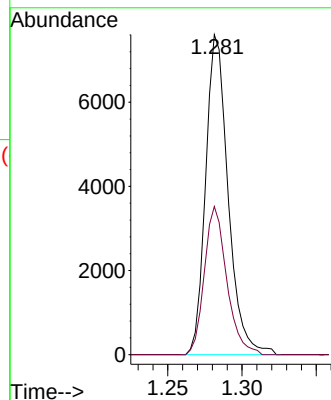
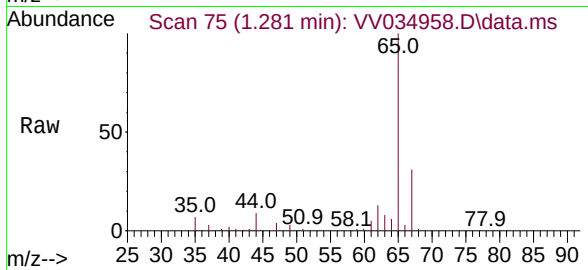
ClientSampleId :

Tgt Ion: 62 Resp: 8011

Ion Ratio Lower Upper

62 100

64 46.3 22.9 42.5#



#8

Chloroethane

Concen: 0.312 ug/L

RT: 1.281 min Scan# 75

Delta R.T. -0.267 min

Lab File: VV034958.D

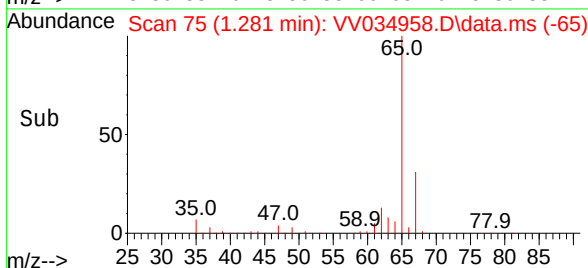
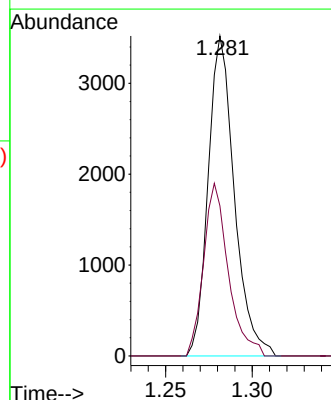
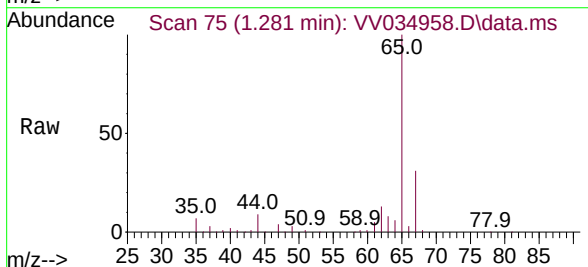
Acq: 03 Apr 2024 15:51

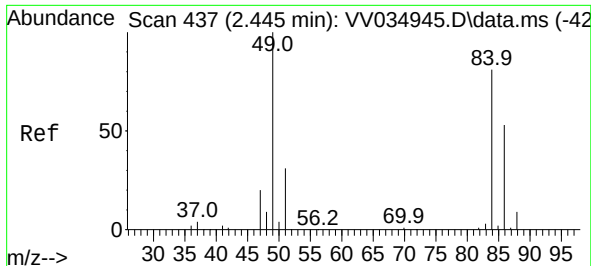
Tgt Ion: 64 Resp: 3700

Ion Ratio Lower Upper

64 100

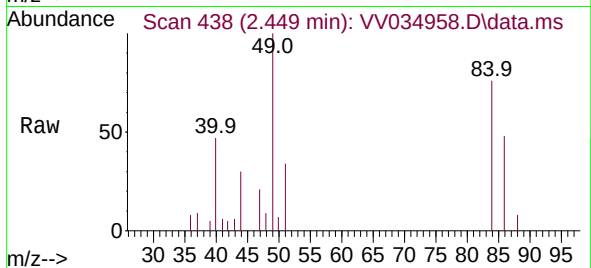
66 46.9 22.6 42.0#



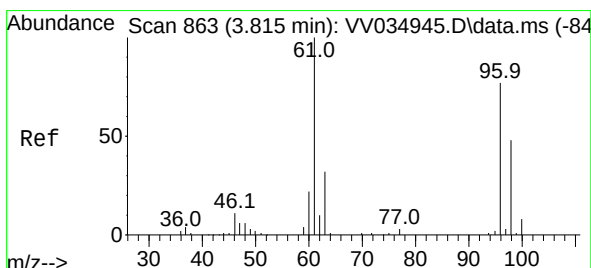
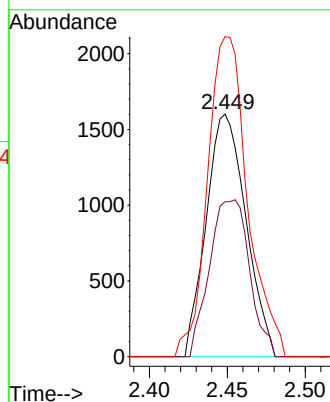
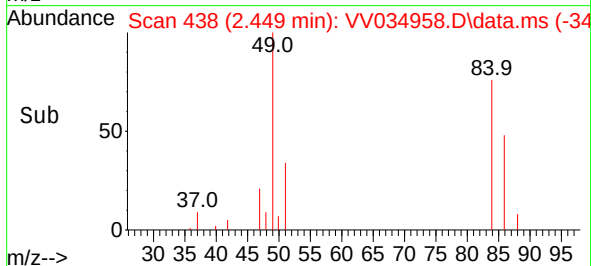


#16
Methylene chloride
Concen: 0.185 ug/L
RT: 2.449 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

Instrument :
MSVOA_V
ClientSampleId :

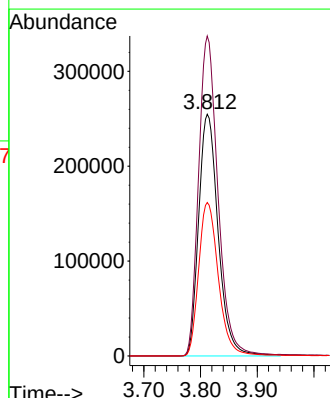
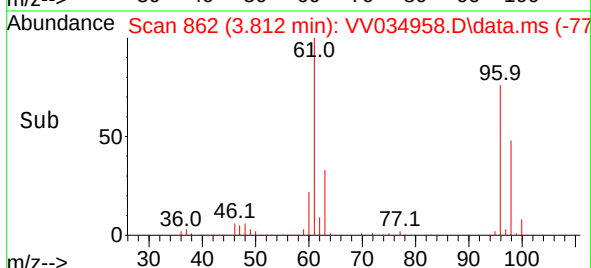
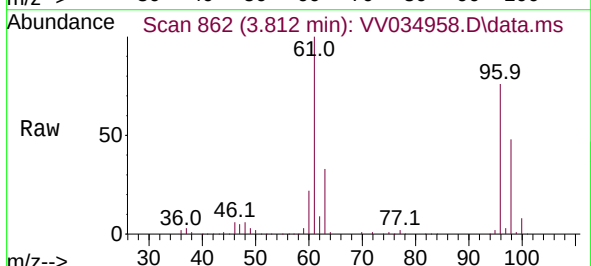


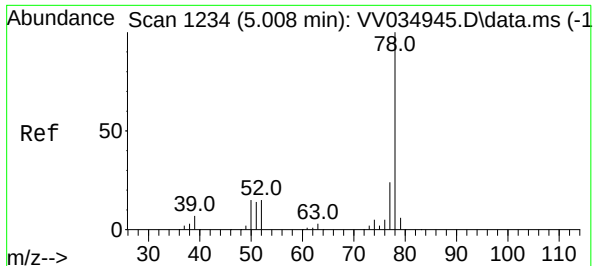
Tgt Ion: 84 Resp: 2843
Ion Ratio Lower Upper
84 100
86 63.8 43.5 80.9
49 131.9 82.5 153.3



#22
cis-1,2-Dichloroethene
Concen: 41.967 ug/L
RT: 3.812 min Scan# 862
Delta R.T. -0.003 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

Tgt Ion: 96 Resp: 610529
Ion Ratio Lower Upper
96 100
61 132.3 90.3 167.7
98 63.5 42.7 79.3

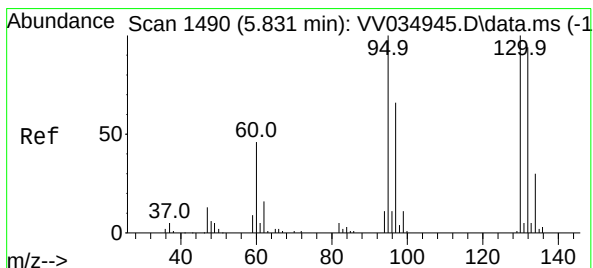
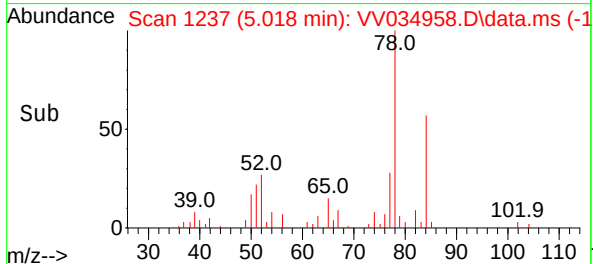
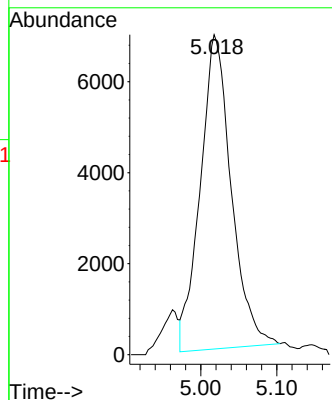
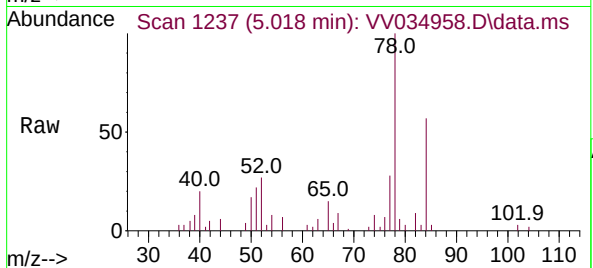




#33
Benzene
Concen: 0.338 ug/L
RT: 5.018 min Scan# 1490
Delta R.T. 0.010 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

Instrument :
MSVOA_V
ClientSampleId :

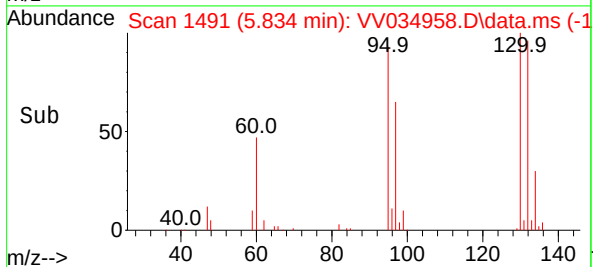
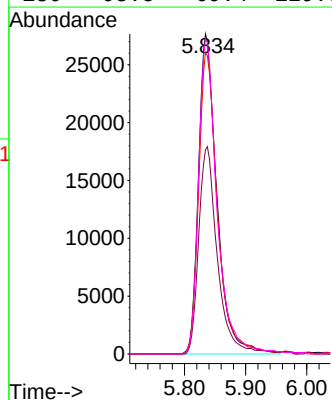
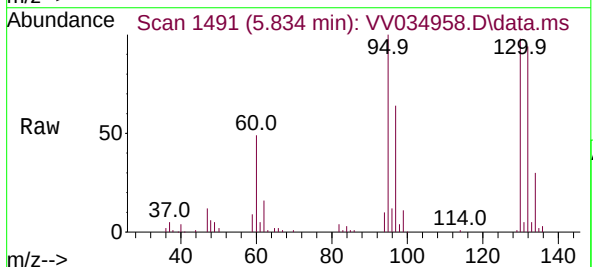
Tgt Ion: 78 Resp: 19531

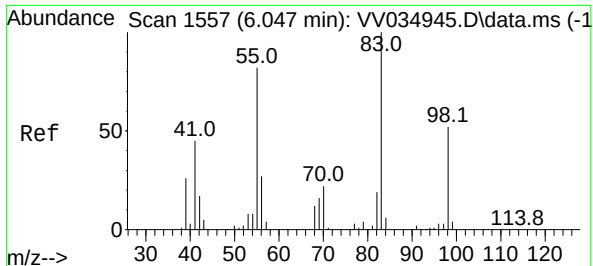


#34
Trichloroethene
Concen: 3.868 ug/L
RT: 5.834 min Scan# 1491
Delta R.T. 0.003 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

Tgt Ion: 95 Resp: 58170

Ion	Ratio	Lower	Upper
95	100		
97	63.9	46.8	86.8
132	94.1	68.0	126.4
130	98.5	69.4	129.0





#35

Methylcyclohexane

Concen: 0.181 ug/L

RT: 6.046 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VV034958.D

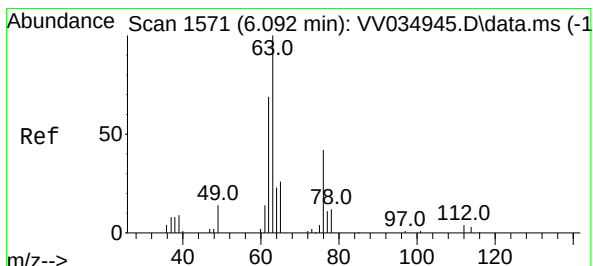
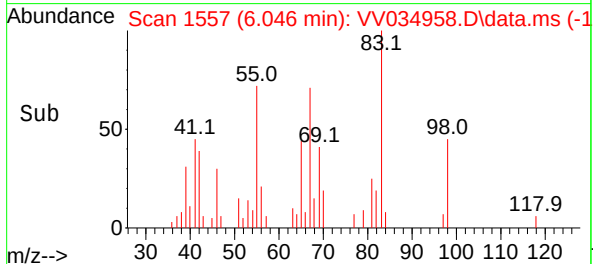
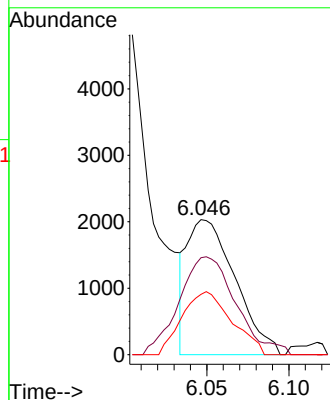
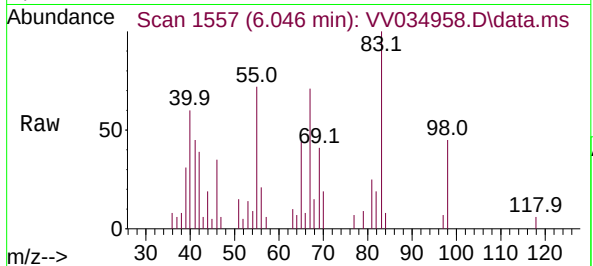
Acq: 03 Apr 2024 15:51

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 83	Resp: 4147
Ion Ratio	Lower Upper
83 100	
55 85.4	60.6 91.0
98 48.2	37.8 56.6



#37

1,2-Dichloropropane

Concen: 0.593 ug/L

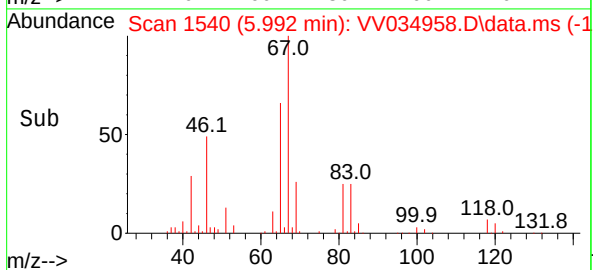
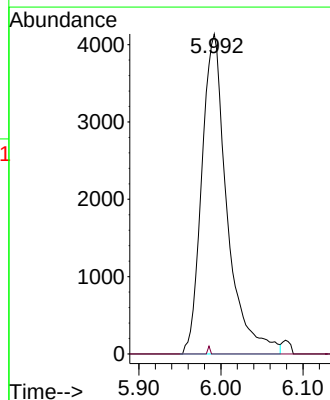
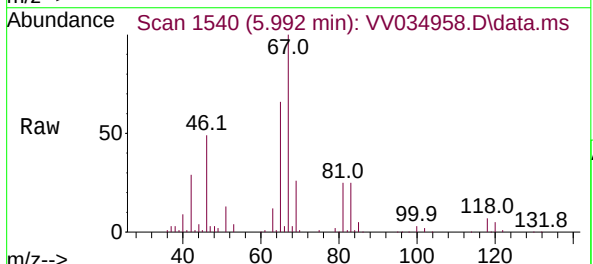
RT: 5.992 min Scan# 1540

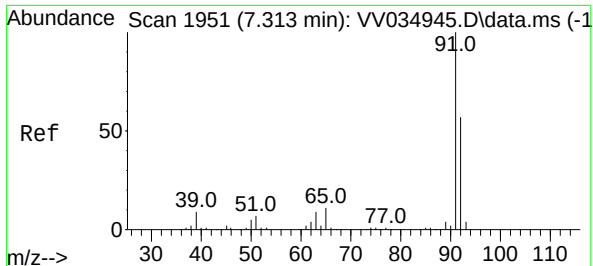
Delta R.T. -0.100 min

Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

Tgt Ion: 63	Resp: 8873
Ion Ratio	Lower Upper
63 100	
112 0.2	3.5 5.3#





#42

Toluene

Concen: 35.116 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. -0.000 min

Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

Instrument :

MSVOA_V

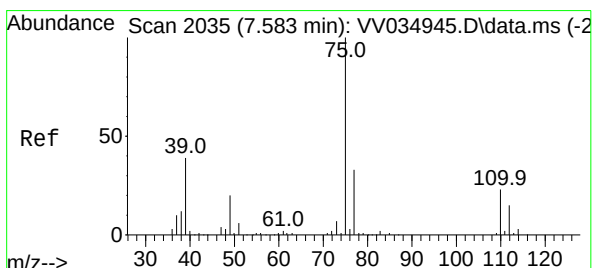
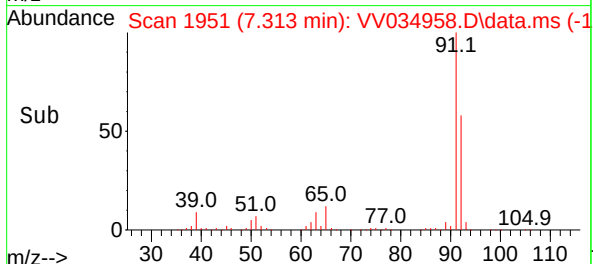
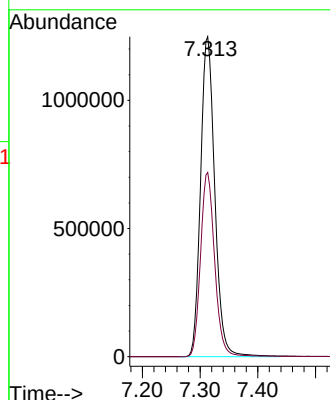
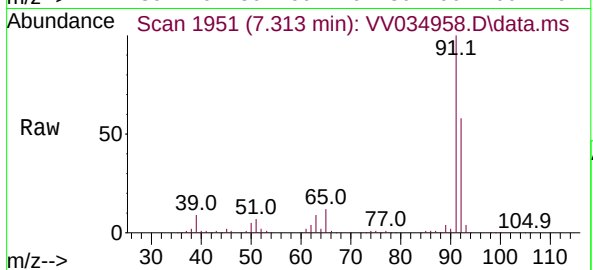
ClientSampleId :

Tgt Ion: 91 Resp: 2130443

Ion Ratio Lower Upper

91 100

92 57.5 38.9 72.2



#44

trans-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 7.558 min Scan# 2027

Delta R.T. -0.026 min

Lab File: VV034958.D

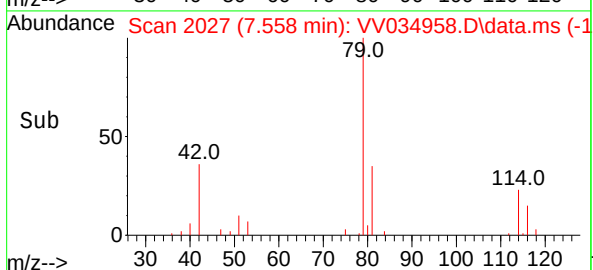
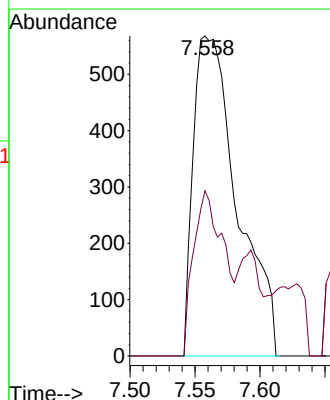
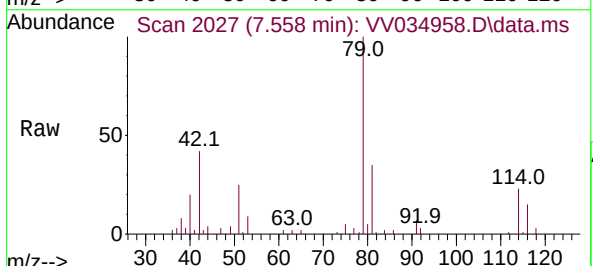
Acq: 03 Apr 2024 15:51

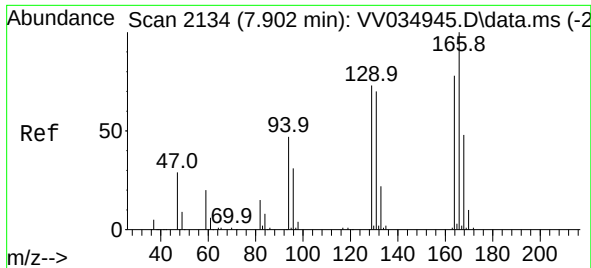
Tgt Ion: 75 Resp: 1341

Ion Ratio Lower Upper

75 100

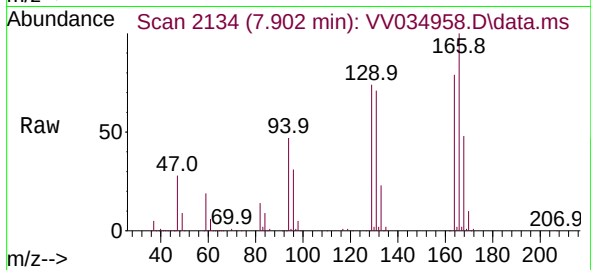
77 51.6 22.7 42.3#



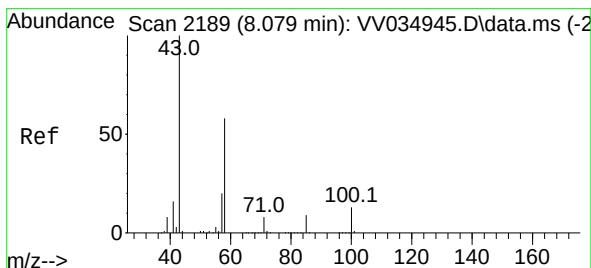
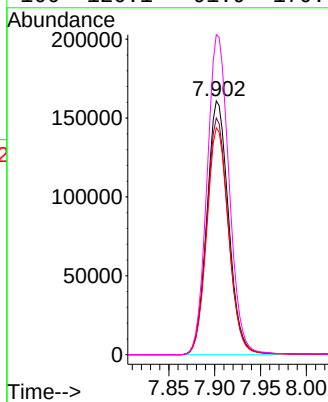
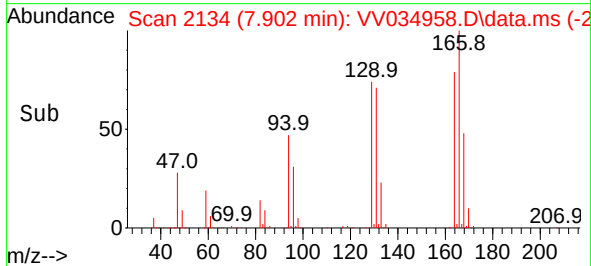


#47
Tetrachloroethene
Concen: 23.530 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. -0.000 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

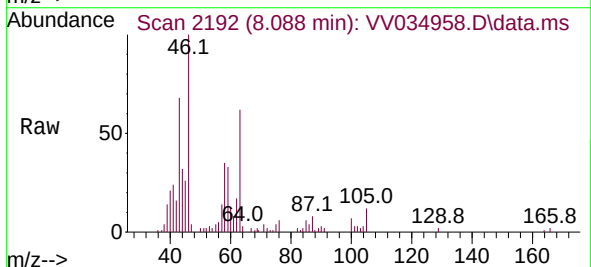
Instrument :
MSVOA_V
ClientSampleId :



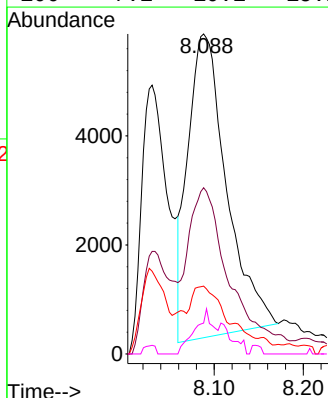
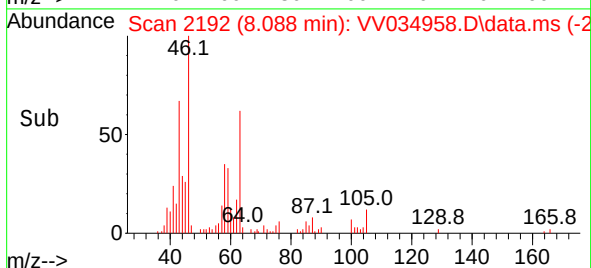
Tgt Ion:164 Resp: 265845
Ion Ratio Lower Upper
164 100
129 93.3 66.0 122.6
131 89.4 63.0 117.0
166 126.1 91.9 170.7

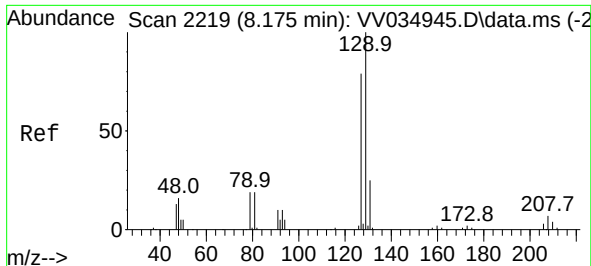


#48
2-Hexanone
Concen: 3.292 ug/L
RT: 8.088 min Scan# 2192
Delta R.T. 0.010 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51



Tgt Ion: 43 Resp: 16779
Ion Ratio Lower Upper
43 100
58 60.7 48.2 72.4
57 16.0 15.6 23.4
100 7.1 10.1 15.1#





#49

Dibromochloromethane

Concen: 20.602 ug/L

RT: 7.902 min Scan# 2134

Delta R.T. -0.273 min

Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

Instrument :

MSVOA_V

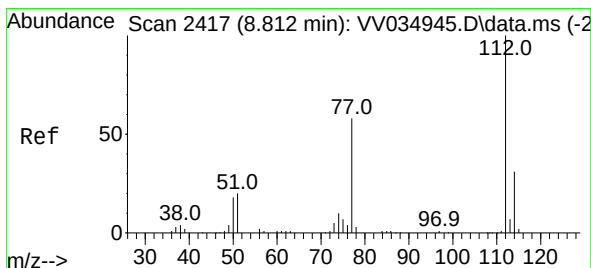
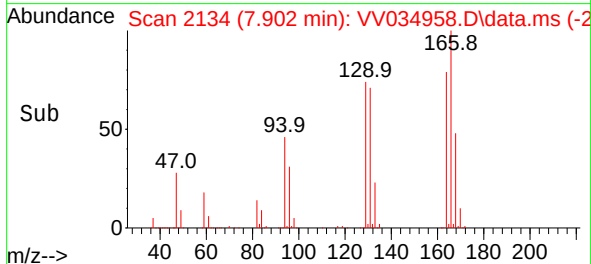
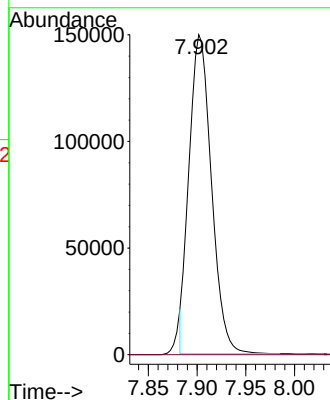
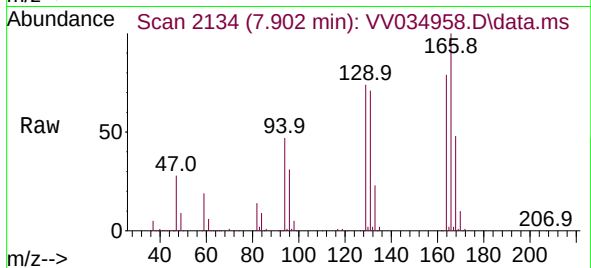
ClientSampleId :

Tgt Ion:129 Resp: 238440

Ion Ratio Lower Upper

129 100

127 0.0 56.4 104.7#



#51

Chlorobenzene

Concen: 3.567 ug/L

RT: 8.815 min Scan# 2418

Delta R.T. 0.003 min

Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

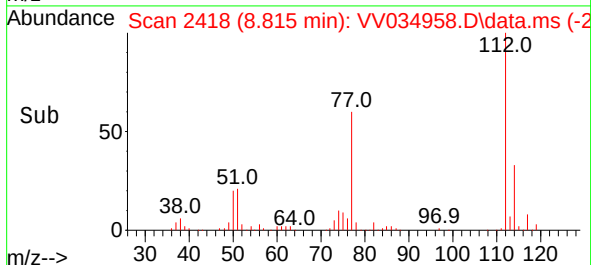
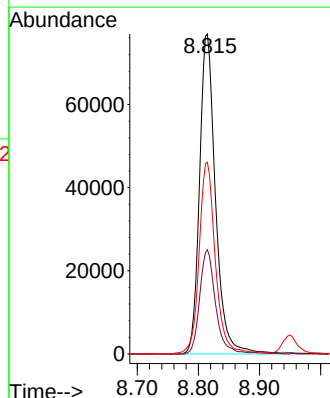
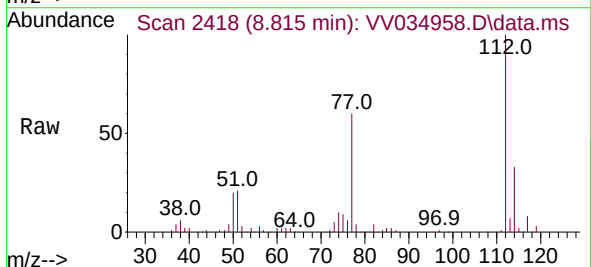
Tgt Ion:112 Resp: 139808

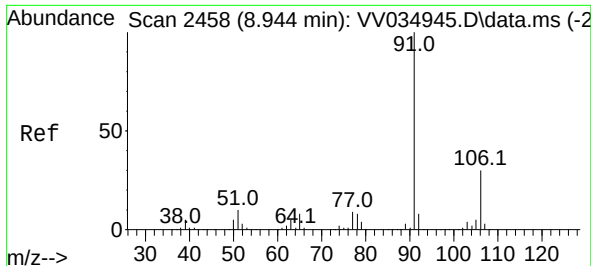
Ion Ratio Lower Upper

112 100

114 32.5 21.9 40.7

77 60.0 47.4 71.2

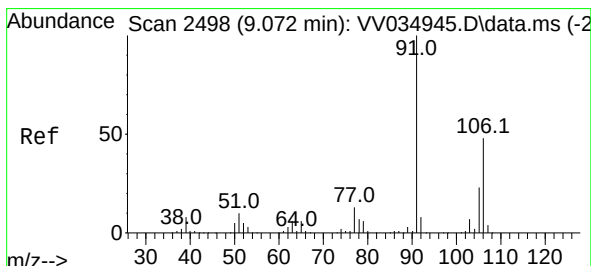
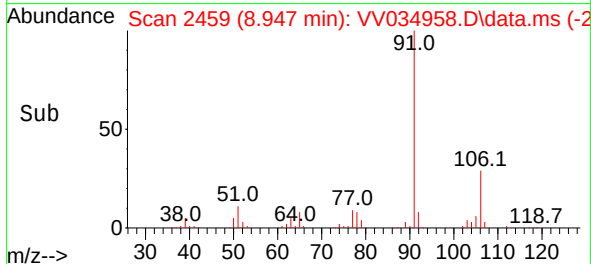
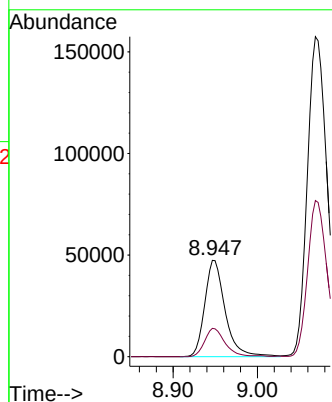
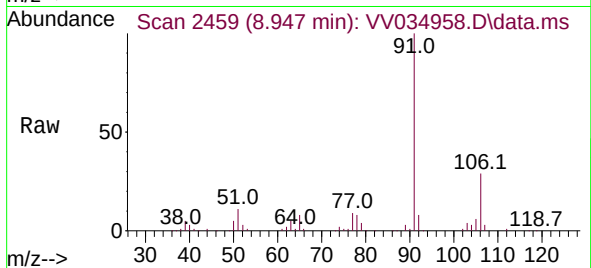




#52
Ethylbenzene
Concen: 1.223 ug/L
RT: 8.947 min Scan# 2458
Delta R.T. 0.003 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

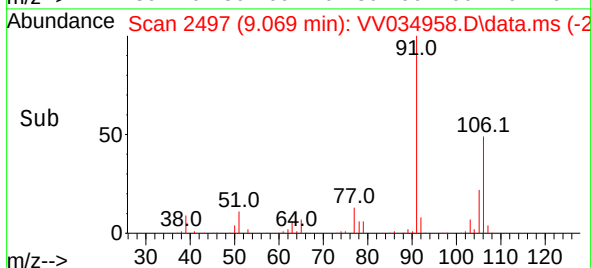
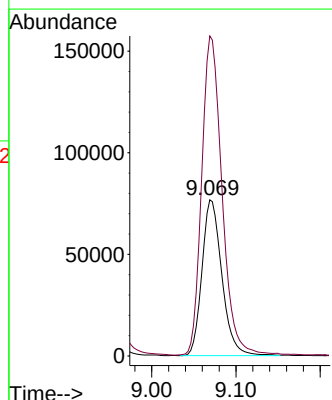
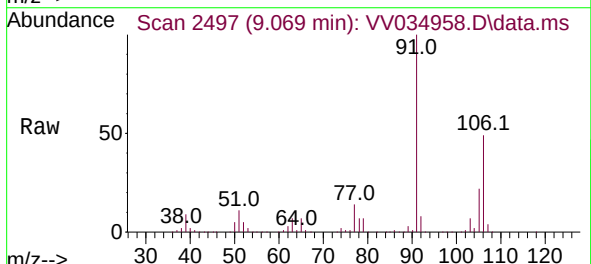
Instrument :
MSVOA_V
ClientSampleId :

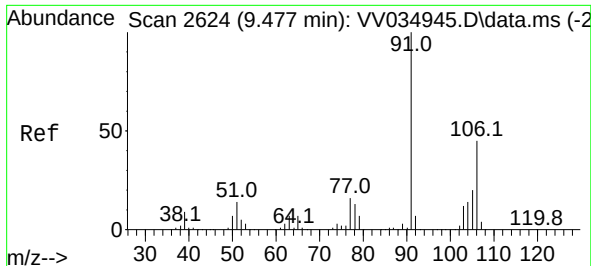
Tgt Ion: 91 Resp: 80114
Ion Ratio Lower Upper
91 100
106 29.3 21.2 39.4



#53
m,p-Xylene
Concen: 5.258 ug/L
RT: 9.069 min Scan# 2497
Delta R.T. -0.003 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

Tgt Ion: 106 Resp: 126516
Ion Ratio Lower Upper
106 100
91 205.0 145.7 270.7

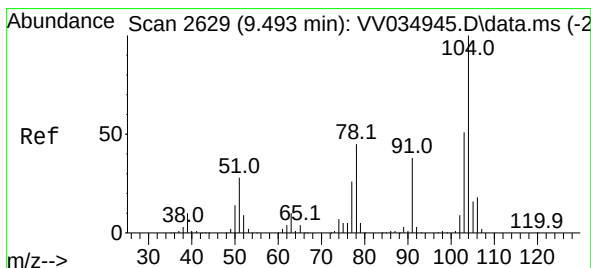
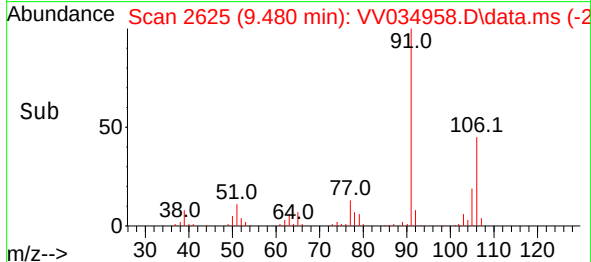
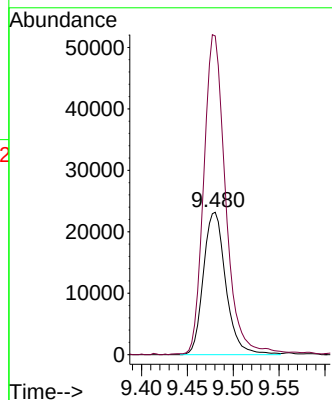
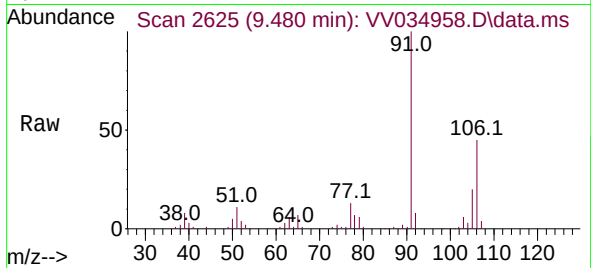




#54
o-Xylene
Concen: 1.670 ug/L
RT: 9.480 min Scan# 2625
Delta R.T. 0.003 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

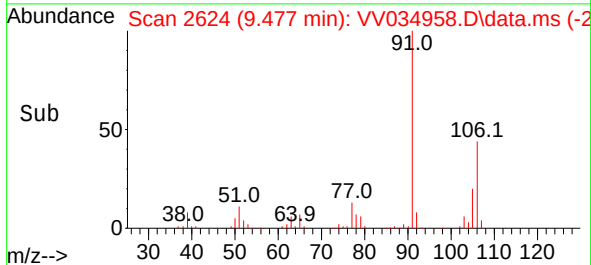
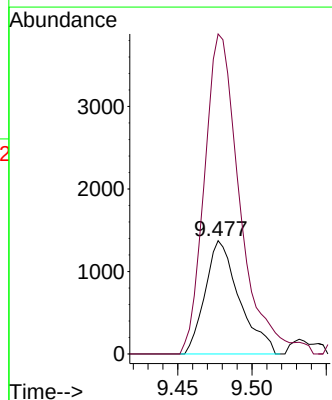
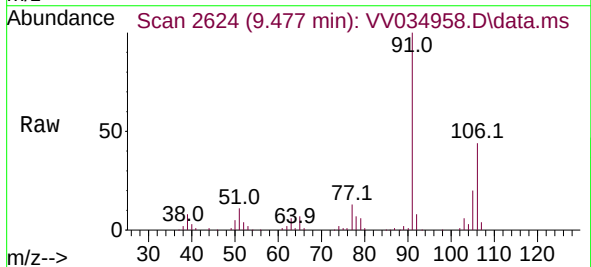
Instrument :
MSVOA_V
ClientSampleId :

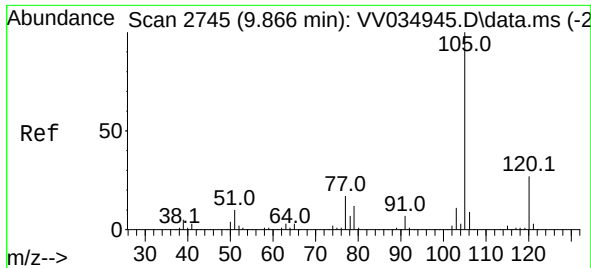
Tgt Ion:106 Resp: 39428
Ion Ratio Lower Upper
106 100
91 223.9 151.2 280.8



#55
Styrene
Concen: 0.058 ug/L
RT: 9.477 min Scan# 2624
Delta R.T. -0.016 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

Tgt Ion:104 Resp: 2196
Ion Ratio Lower Upper
104 100
78 282.5 30.9 57.5#

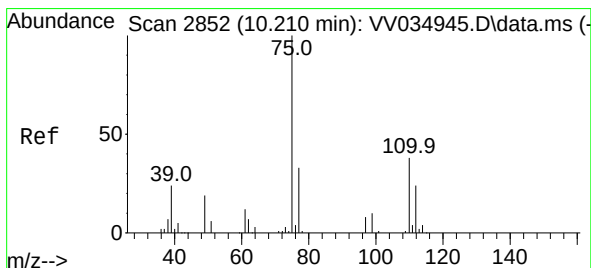
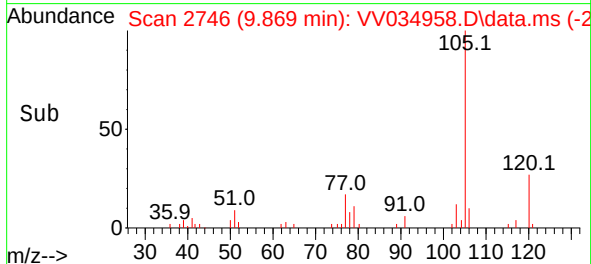
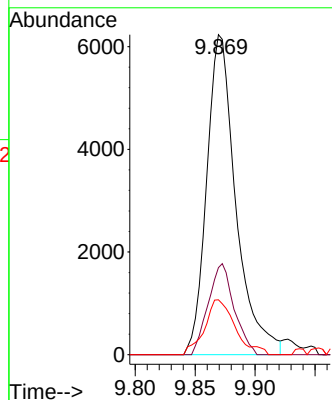
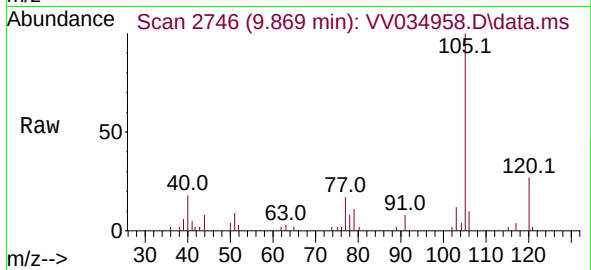




#60
Isopropylbenzene
Concen: 0.174 ug/L
RT: 9.869 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

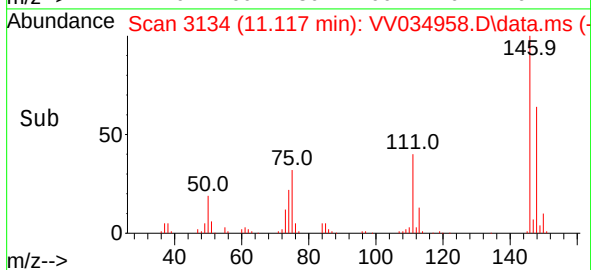
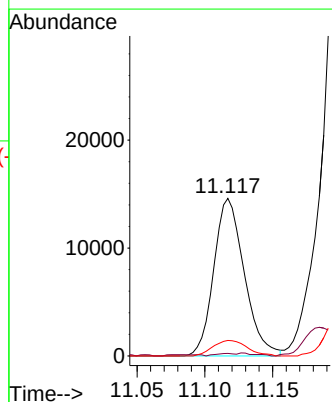
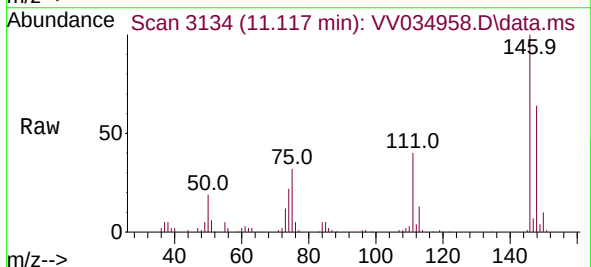
Instrument :
MSVOA_V
ClientSampleId :

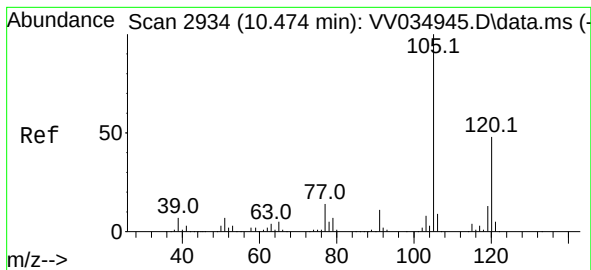
Tgt Ion:105 Resp: 10552
Ion Ratio Lower Upper
105 100
120 25.2 21.0 31.4
77 0.0 13.4 20.2#



#61
1,2,3-Trichloropropane
Concen: 2.520 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. 0.907 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

Tgt Ion: 75 Resp: 22871
Ion Ratio Lower Upper
75 100
77 31.6 24.8 37.2
110 11.0 31.0 46.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.379 ug/L

RT: 10.477 min Scan# 2934

Delta R.T. 0.003 min

Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

Instrument :

MSVOA_V

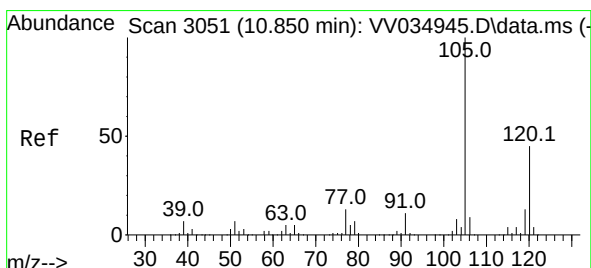
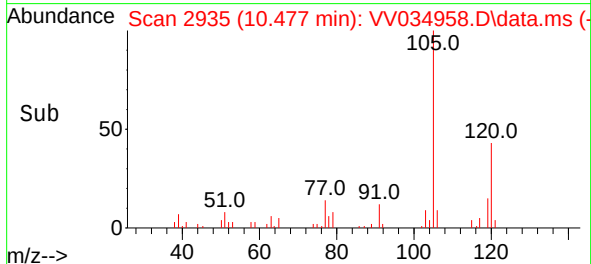
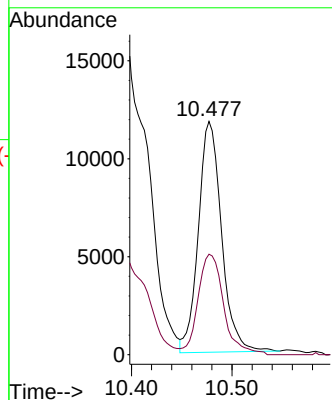
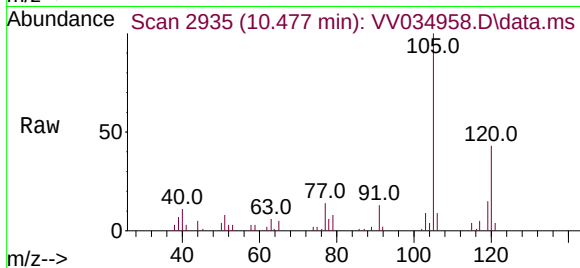
ClientSampleId :

Tgt Ion:105 Resp: 18900

Ion Ratio Lower Upper

105 100

120 48.0 39.2 58.8



#63

1,2,4-Trimethylbenzene

Concen: 1.017 ug/L

RT: 10.853 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VV034958.D

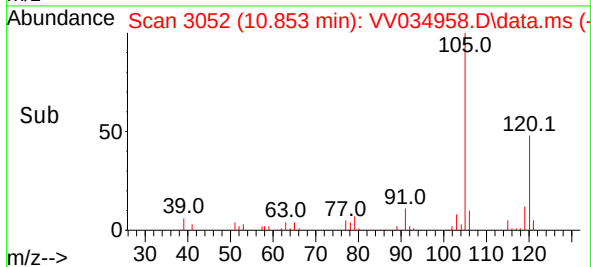
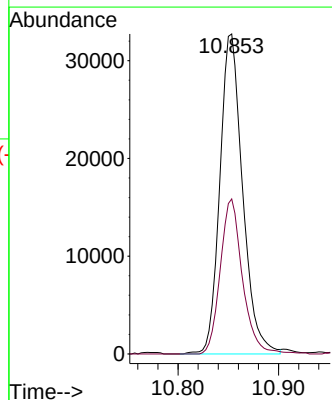
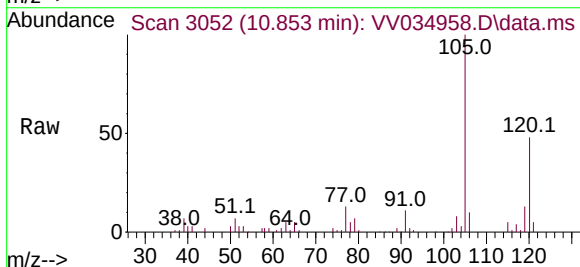
Acq: 03 Apr 2024 15:51

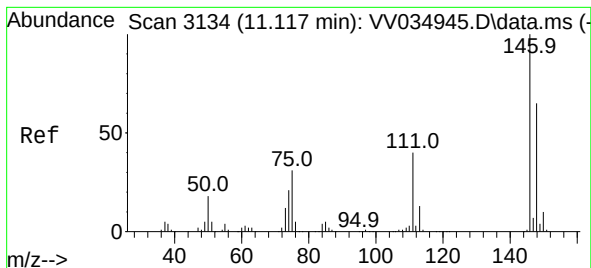
Tgt Ion:105 Resp: 51492

Ion Ratio Lower Upper

105 100

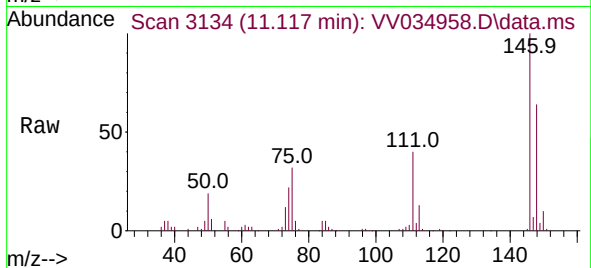
120 47.3 35.8 53.8



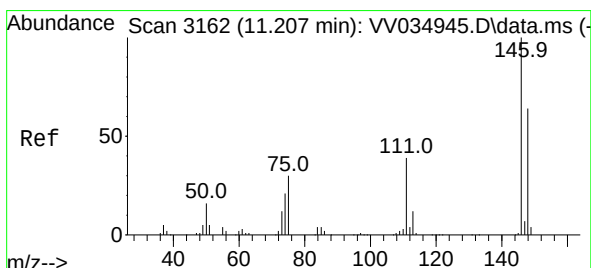
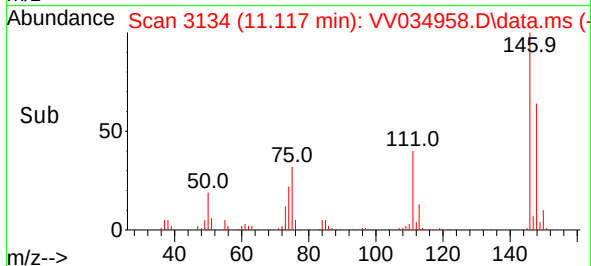
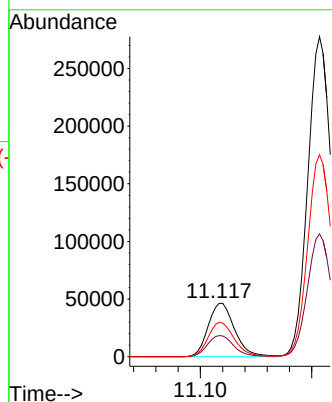


#64
1,3-Dichlorobenzene
Concen: 2.465 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. -0.000 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

Instrument :
MSVOA_V
ClientSampleId :

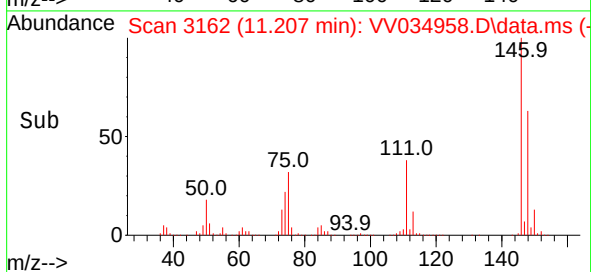
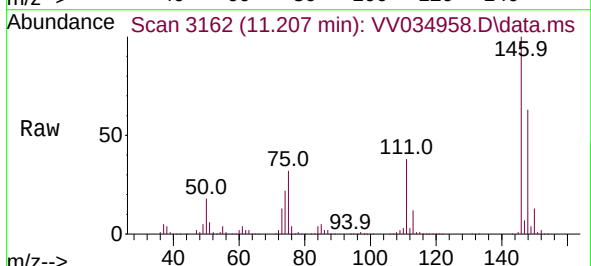
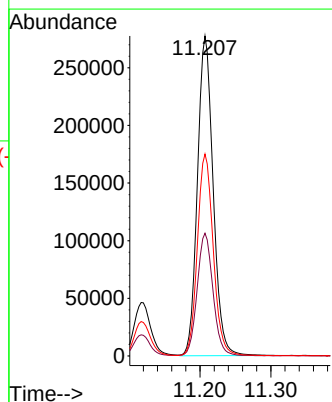


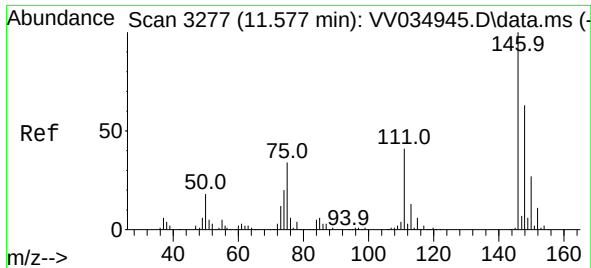
Tgt Ion:146 Resp: 76444
Ion Ratio Lower Upper
146 100
111 39.7 27.7 51.5
148 64.4 44.0 81.8



#65
1,4-Dichlorobenzene
Concen: 13.740 ug/L
RT: 11.207 min Scan# 3162
Delta R.T. -0.000 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

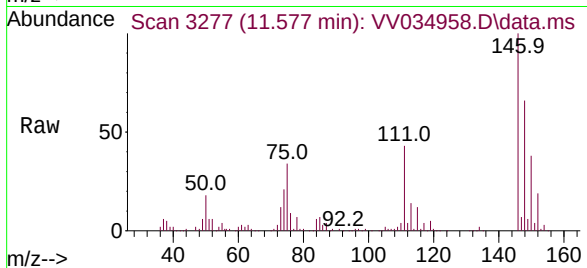
Tgt Ion:146 Resp: 426718
Ion Ratio Lower Upper
146 100
111 38.3 27.3 50.7
148 63.1 43.5 80.7



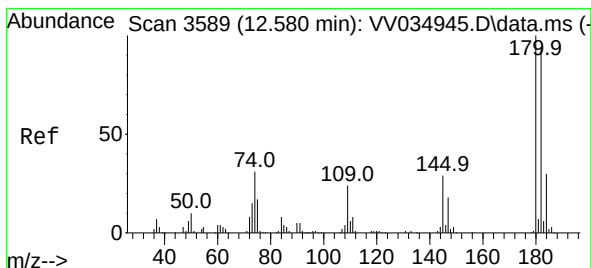
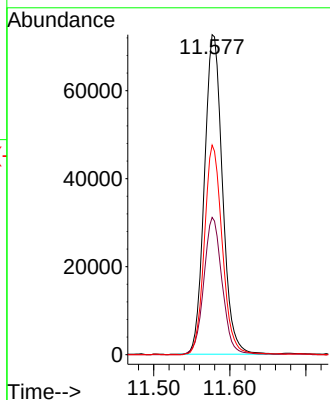
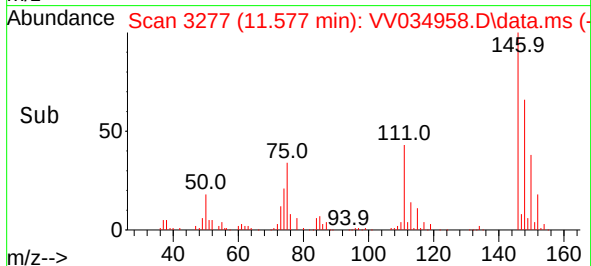


#67
1,2-Dichlorobenzene
Concen: 4.186 ug/L
RT: 11.577 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51

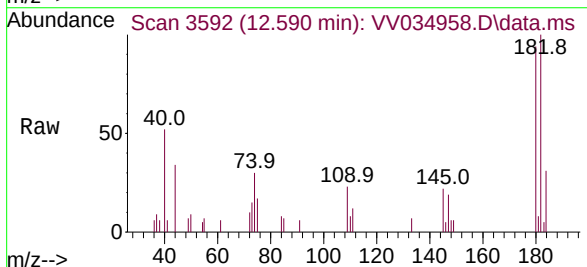
Instrument :
MSVOA_V
ClientSampleId :



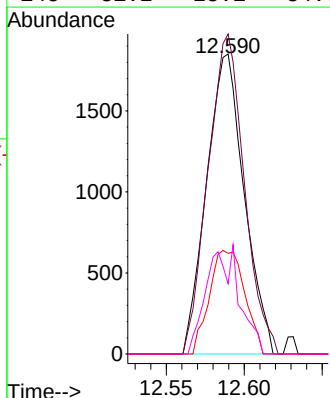
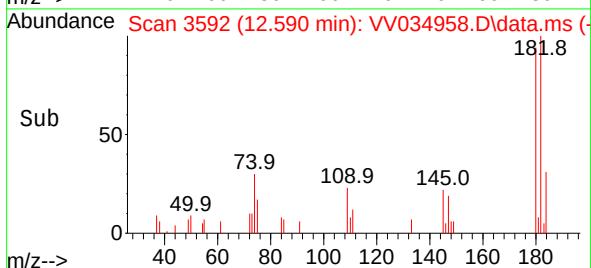
Tgt Ion:146 Resp: 119923
Ion Ratio Lower Upper
146 100
111 42.9 33.9 50.9
148 65.5 49.3 73.9

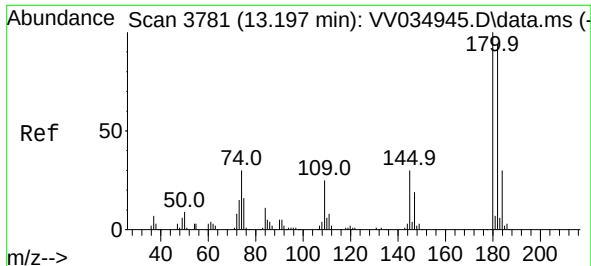


#69
1,3,5-Trichlorobenzene
Concen: 0.133 ug/L
RT: 12.590 min Scan# 3592
Delta R.T. 0.010 min
Lab File: VV034958.D
Acq: 03 Apr 2024 15:51



Tgt Ion:180 Resp: 3108
Ion Ratio Lower Upper
180 100
182 102.6 77.3 115.9
184 32.4 24.1 36.1
145 31.2 23.1 34.7





#70

1,2,4-trichlorobenzene

Concen: 94.773 ug/L

RT: 13.197 min Scan# 3781

Delta R.T. -0.000 min

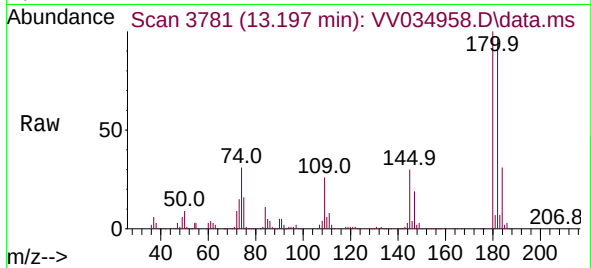
Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

Instrument :

MSVOA_V

ClientSampleId :



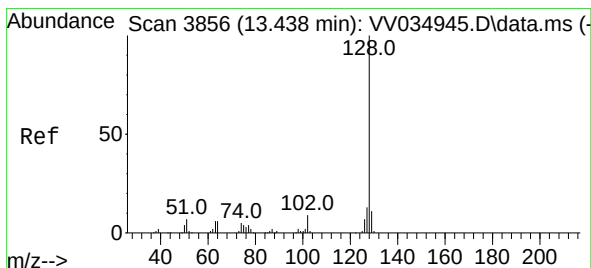
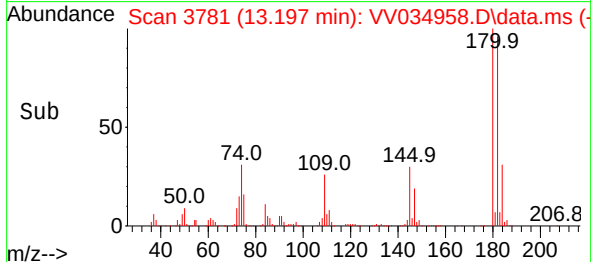
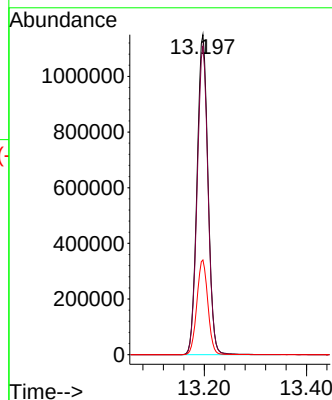
Tgt Ion:180 Resp: 1714063

Ion Ratio Lower Upper

180 100

182 95.4 75.3 112.9

145 29.6 23.4 35.0



#71

Naphthalene

Concen: 0.825 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.006 min

Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

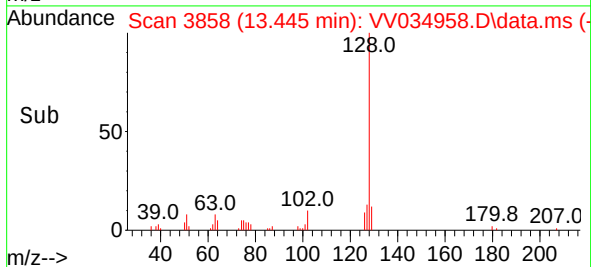
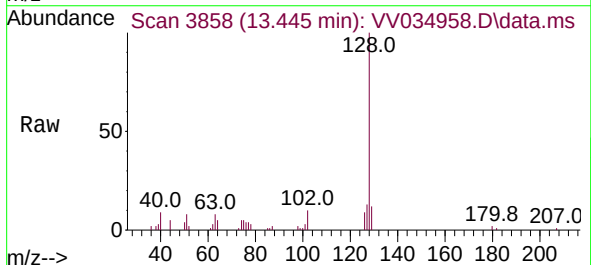
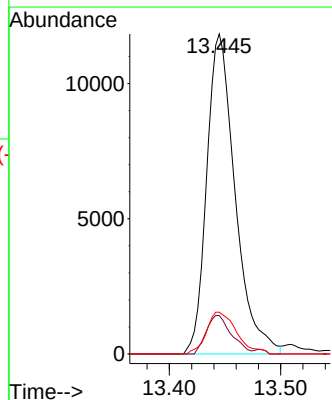
Tgt Ion:128 Resp: 20982

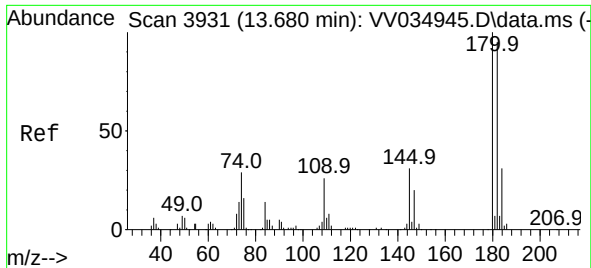
Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

127 13.8 10.7 16.1





#72

1,2,3-Trichlorobenzene

Concen: 18.440 ug/L

RT: 13.680 min Scan# 3931

Delta R.T. -0.000 min

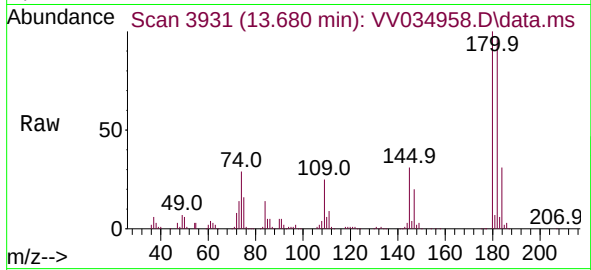
Lab File: VV034958.D

Acq: 03 Apr 2024 15:51

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 293306

Ion Ratio Lower Upper

180 100

182 95.2 77.0 115.4

145 30.9 25.4 38.2

