

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121423\
 Data File : VW033365.D
 Acq On : 15 Dec 2023 03:11
 Operator : SY/MD
 Sample : 05802-15
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 15 04:10:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 08 21:51:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	203016	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	216517	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.326	152	80	50.000	ug/L	0.14

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	66221	54.564	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	109.120%
7) Chloroethane-d5	1.532	69	29541	34.934	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	69.860%#
11) 1,1-Dichloroethene-d2	2.063	65	16167	35.017	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.040%
21) 2-Butanone-d5	3.815	46	63794	105.832	ug/L	0.04
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.830%
24) Chloroform-d	4.249	84	119253	46.302	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.600%
26) 1,2-Dichloroethane-d4	4.941	65	82908	51.776	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.560%
32) Benzene-d6	4.960	84	220438	43.532	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.060%
36) 1,2-Dichloropropane-d6	5.989	67	54706	40.179	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	80.360%
41) Toluene-d8	7.243	98	228190	47.238	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.480%
43) trans-1,3-Dichloroprop...	7.551	79	37813	43.919	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.840%
47) 2-Hexanone-d5	8.021	63	46484	84.983	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.980%
56) 1,1,2,2-Tetrachloroeth...	10.153	84	91710	47.383	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.760%
66) 1,2-Dichlorobenzene-d4	11.326	152	80	56.204	ug/L	-0.23
Spiked Amount	50.000	Range	80 - 120	Recovery	=	112.400%

Target Compounds						Qvalue
5) Vinyl chloride	1.282	62	2933511	2089.895	ug/L	97
12) 1,1-Dichloroethene	2.072	96	44875	44.090	ug/L	89
14) Carbon disulfide	2.249	76	3880	1.063	ug/L	97
17) trans-1,2-Dichloroethene	2.696	96	81198	60.761	ug/L	88
18) Methyl tert-butyl Ether	2.706	73	23270	5.732	ug/L	97
19) 1,1-Dichloroethane	3.114	63	53073	23.995	ug/L	97
27) 1,2-Dichloroethane	5.047	62	26412	13.140	ug/L	97
29) Cyclohexane	4.577	56	5709	2.855	ug/L #	59
33) Benzene	5.008	78	595336	108.505	ug/L	100
34) Trichloroethene	5.838	95	19606	11.961	ug/L	96
39) cis-1,3-Dichloropropene	6.912	75	2392	1.038	ug/L #	73
42) Toluene	7.313	91	952262	154.019	ug/L	99
44) trans-1,3-Dichloropropene	7.551	75	1871	0.803	ug/L #	74
46) Tetrachloroethene	7.905	164	58153	41.270	ug/L	95
51) Chlorobenzene	8.812	112	1916421	440.777	ug/L	97
52) Ethylbenzene	8.953	91	9967	1.401	ug/L	94
53) m,p-Xylene	9.075	106	11258	3.995	ug/L	98
54) o-Xylene	9.481	106	10947	3.936	ug/L	89
60) Isopropylbenzene	9.870	105	2136	463.063	ug/L #	88

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

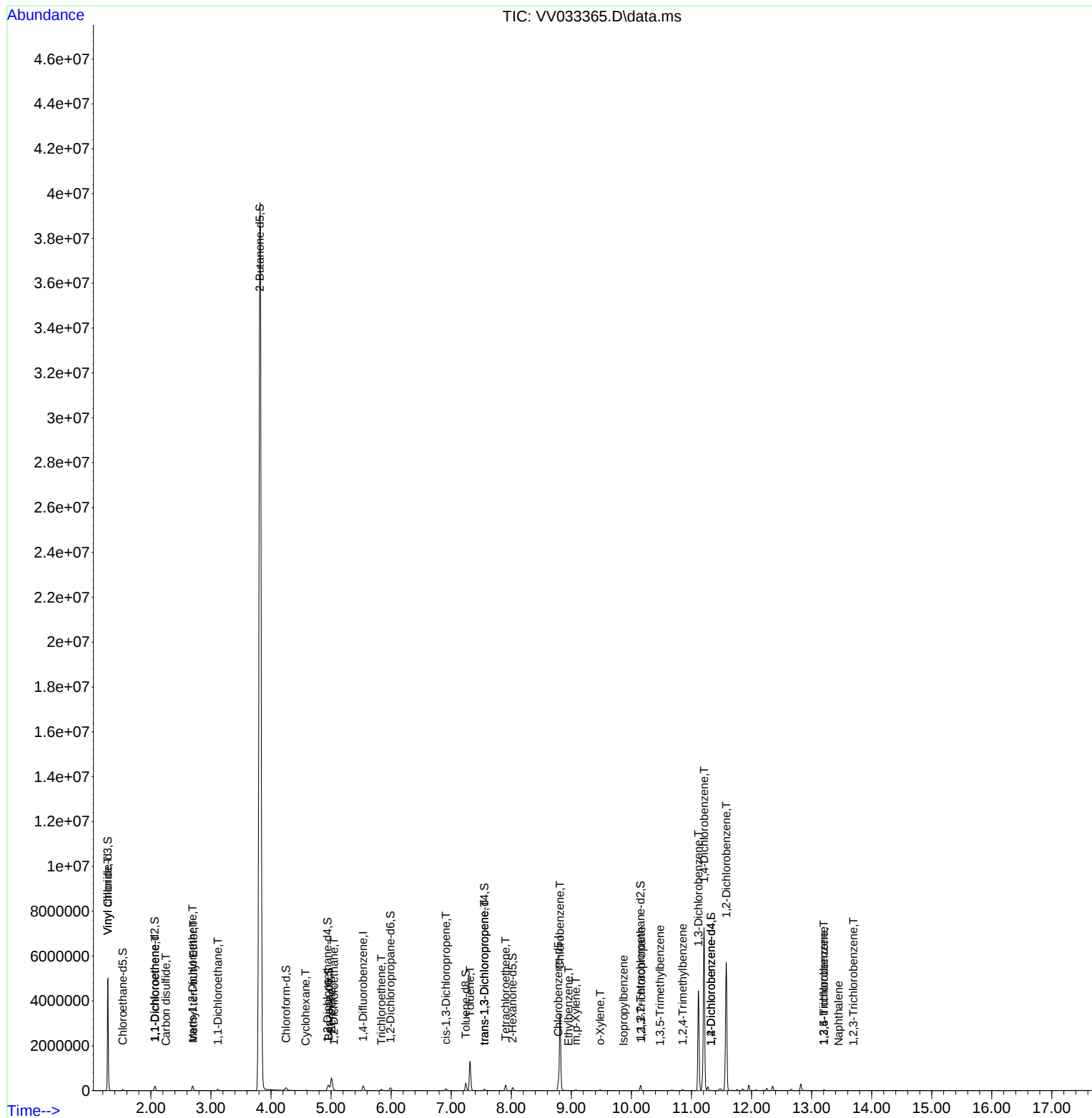
61) 1,2,3-Trichloropropane	10.162	75	168	168.413	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.477	105	3708	997.730	ug/L	97
63) 1,2,4-Trimethylbenzene	10.853	105	30987	8006.041	ug/L	99
64) 1,3-Dichlorobenzene	11.117	146	1840686	746929.188	ug/L	99
65) 1,4-Dichlorobenzene	11.210	146	3014377	1177543.733	ug/L	99
67) 1,2-Dichlorobenzene	11.580	146	2278404	943074.150	ug/L	99
69) 1,3,5-Trichlorobenzene	13.204	180	4388	2222.948	ug/L	94
70) 1,2,4-trichlorobenzene	13.204	180	4388	2406.084	ug/L	93
71) Naphthalene	13.448	128	2424	545.019	ug/L #	95
72) 1,2,3-Trichlorobenzene	13.696	180	189	107.402	ug/L #	1

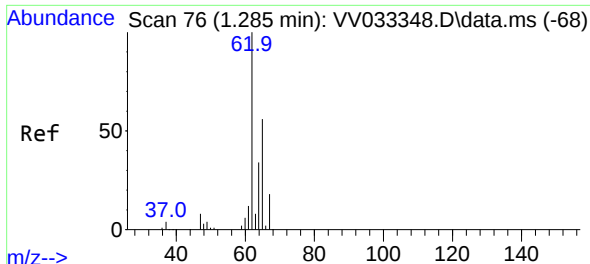
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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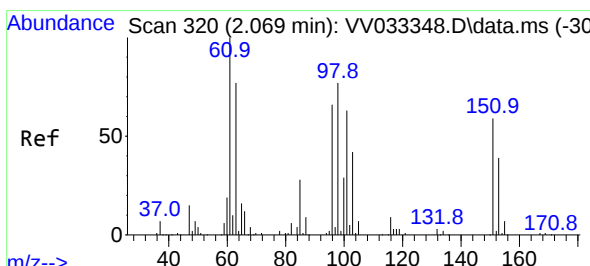
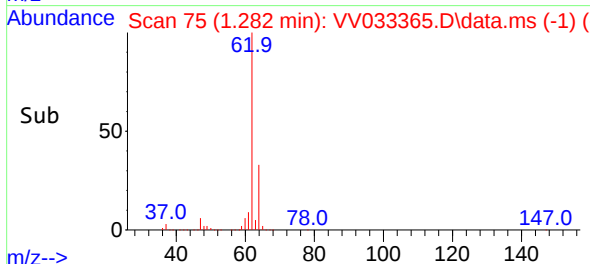
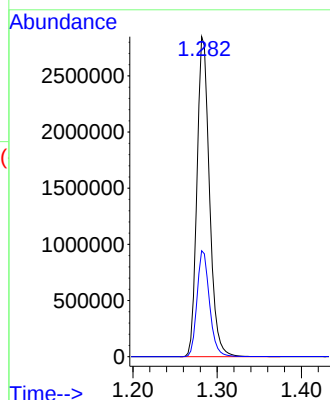
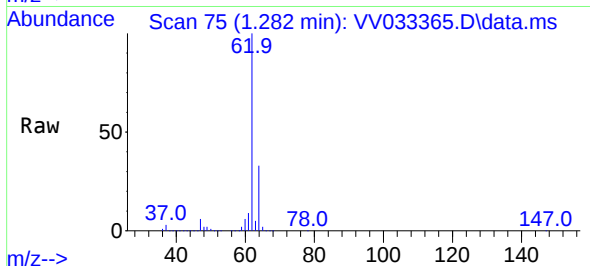




#5
 Vinyl chloride
 Concen: 2089.895 ug/L
 RT: 1.282 min Scan# 76
 Delta R.T. -0.003 min
 Lab File: VV033365.D
 Acq: 15 Dec 2023 03:11

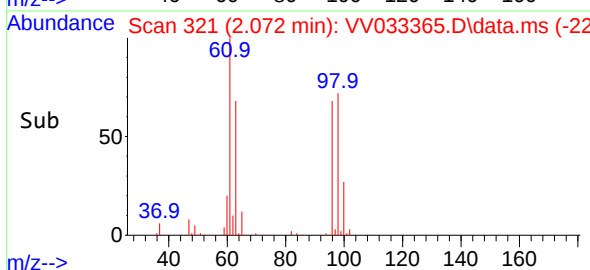
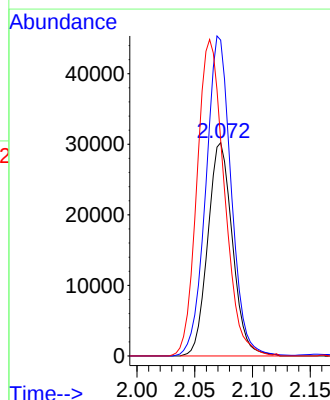
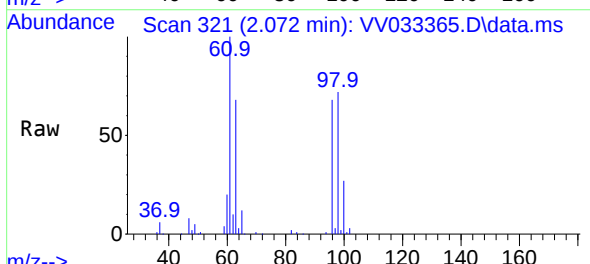
Instrument :
 MSVOA_V
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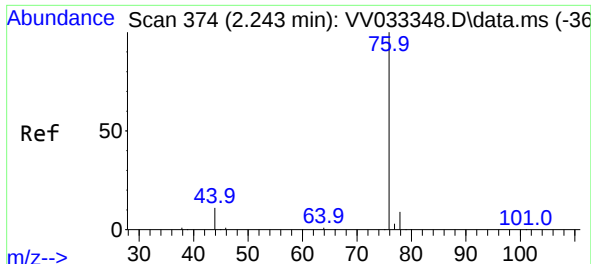
Tgt Ion: 62 Resp: 2933511
 Ion Ratio Lower Upper
 62 100
 64 33.1 24.2 45.0



#12
 1,1-Dichloroethene
 Concen: 44.090 ug/L
 RT: 2.072 min Scan# 321
 Delta R.T. 0.003 min
 Lab File: VV033365.D
 Acq: 15 Dec 2023 03:11

Tgt Ion: 96 Resp: 44875
 Ion Ratio Lower Upper
 96 100
 61 148.1 109.1 202.7
 63 101.1 85.3 158.3

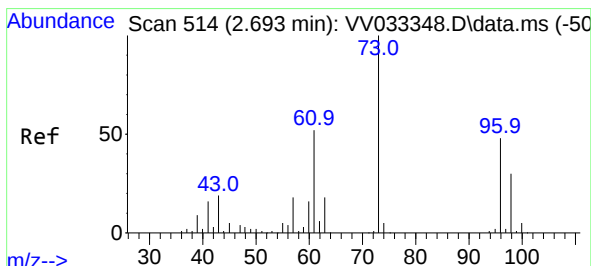
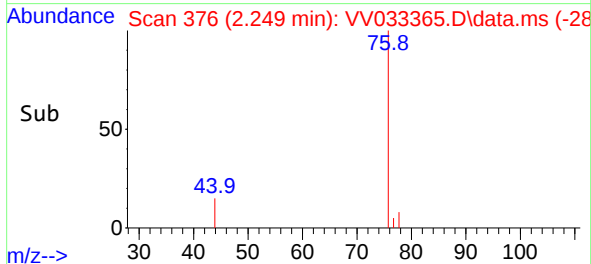
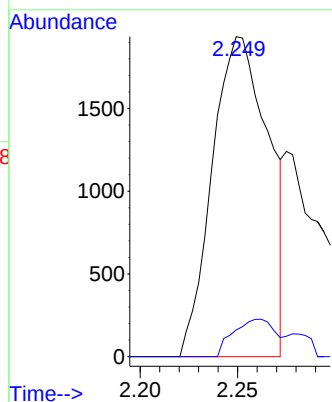
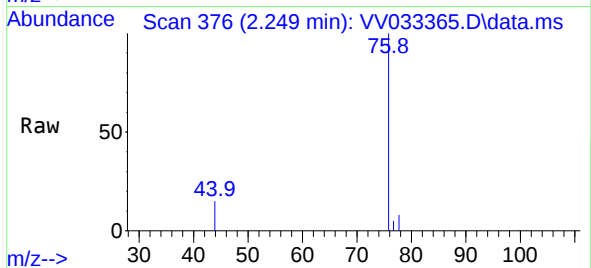




#14
Carbon disulfide
Concen: 1.063 ug/L
RT: 2.249 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

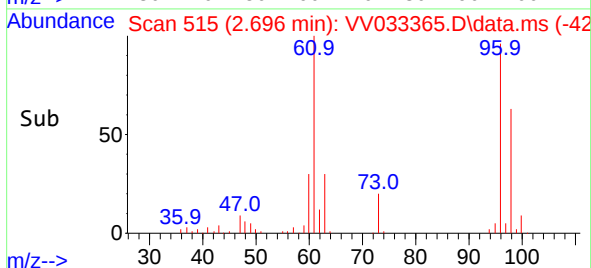
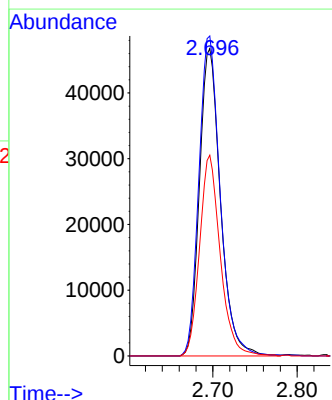
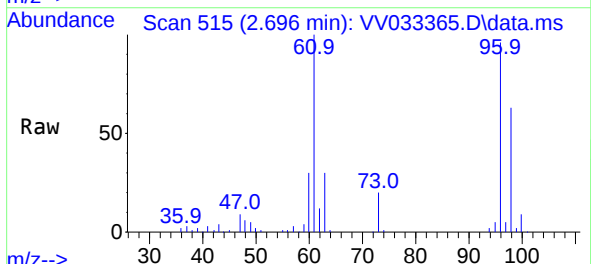
Instrument :
MSVOA_V
ClientSampleId :

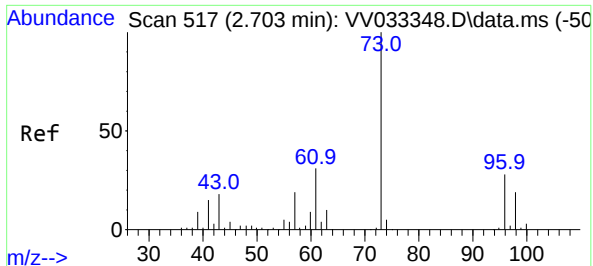
Tgt Ion: 76 Resp: 3880
Ion Ratio Lower Upper
76 100
78 8.0 7.4 11.0



#17
trans-1,2-Dichloroethene
Concen: 60.761 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

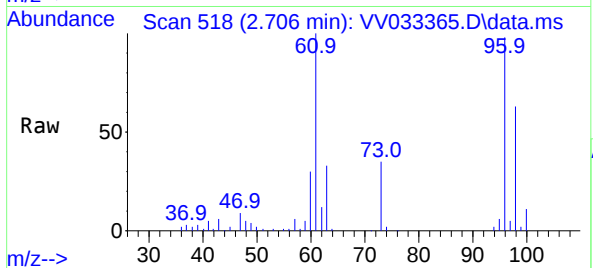
Tgt Ion: 96 Resp: 81198
Ion Ratio Lower Upper
96 100
61 104.1 86.5 160.6
98 65.3 45.1 83.7



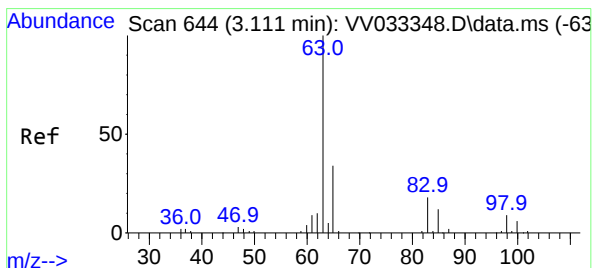
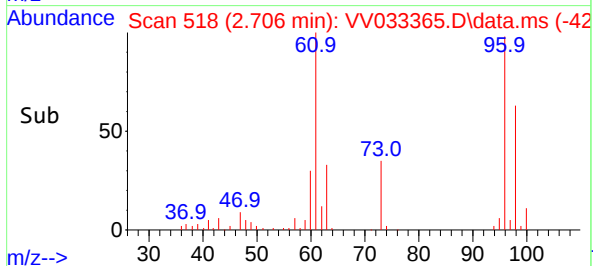
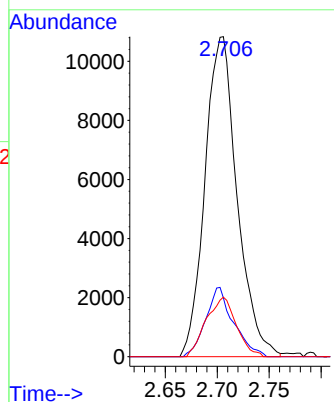


#18
Methyl tert-butyl Ether
Concen: 5.732 ug/L
RT: 2.706 min Scan# 517
Delta R.T. 0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Instrument :
MSVOA_V
ClientSampleId :

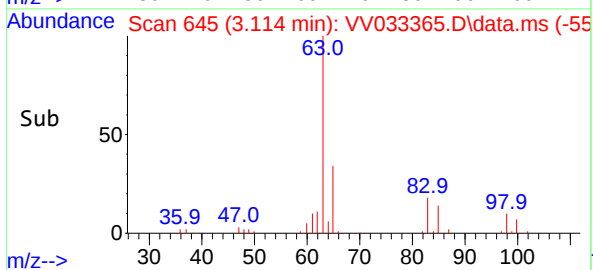
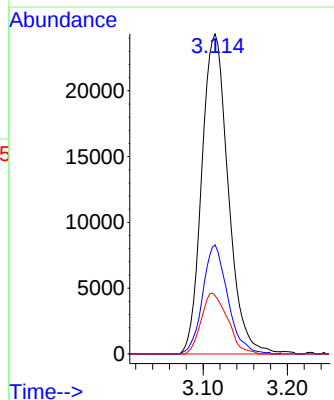
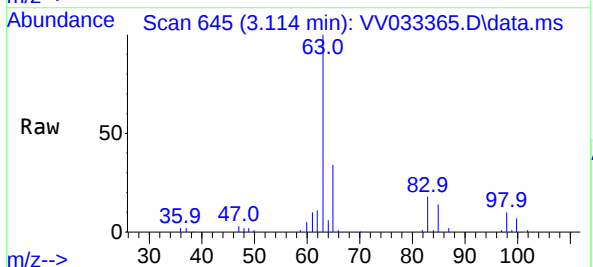


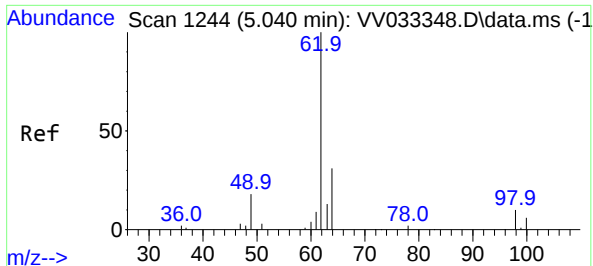
Tgt Ion: 73 Resp: 23270
Ion Ratio Lower Upper
73 100
43 18.8 15.4 23.2
57 17.5 16.1 24.1



#19
1,1-Dichloroethane
Concen: 23.995 ug/L
RT: 3.114 min Scan# 645
Delta R.T. 0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion: 63 Resp: 53073
Ion Ratio Lower Upper
63 100
65 34.1 23.0 42.6
83 18.2 11.4 21.2

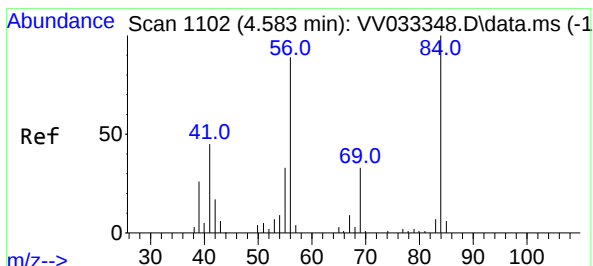
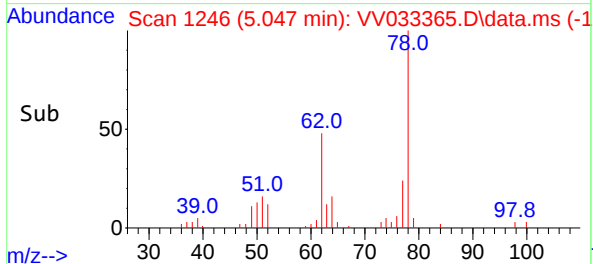
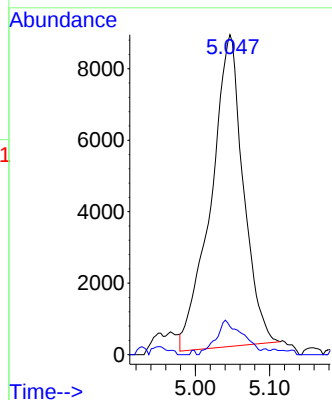
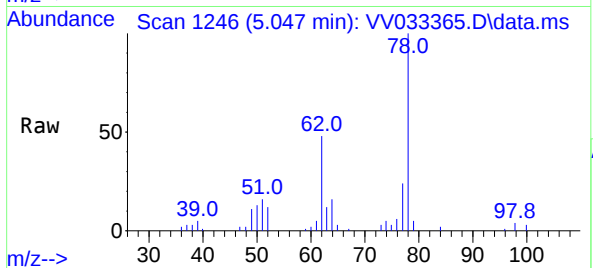




#27
1,2-Dichloroethane
Concen: 13.140 ug/L
RT: 5.047 min Scan# 1100
Delta R.T. 0.010 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

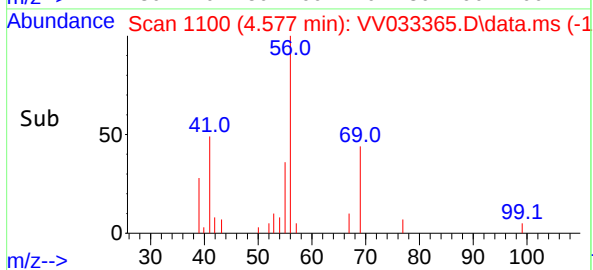
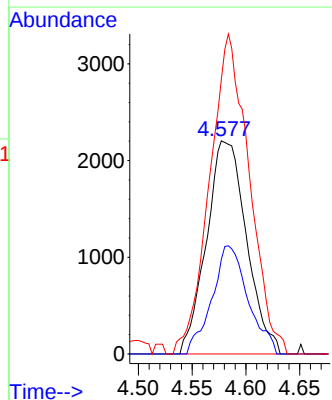
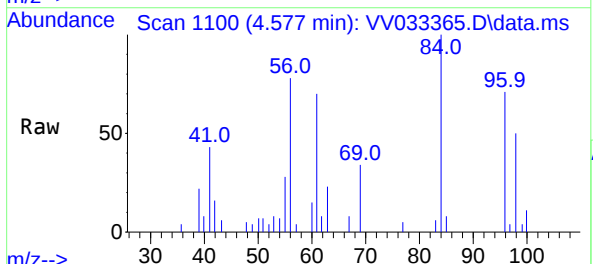
Instrument :
MSVOA_V
ClientSampleId :

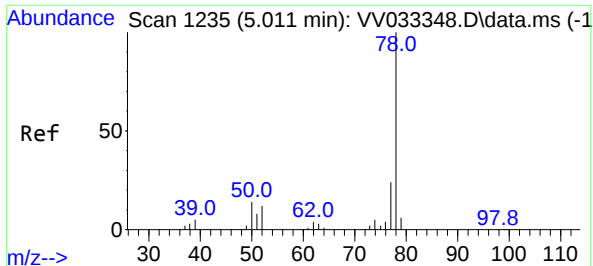
Tgt Ion: 62 Resp: 26412
Ion Ratio Lower Upper
62 100
98 8.8 7.8 11.8



#29
Cyclohexane
Concen: 2.855 ug/L
RT: 4.577 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion: 56 Resp: 5709
Ion Ratio Lower Upper
56 100
69 45.7 26.9 40.3#
84 148.2 80.6 121.0#

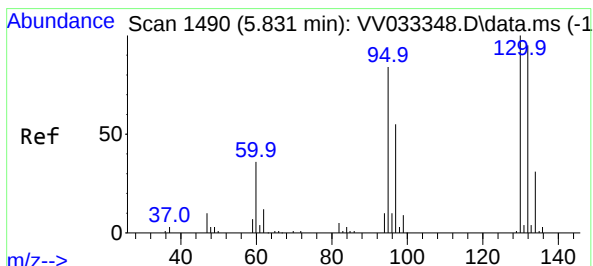
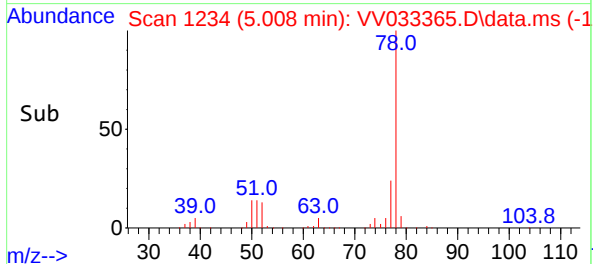
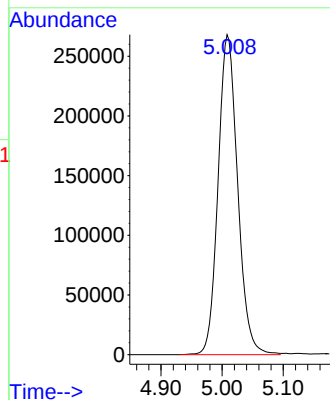
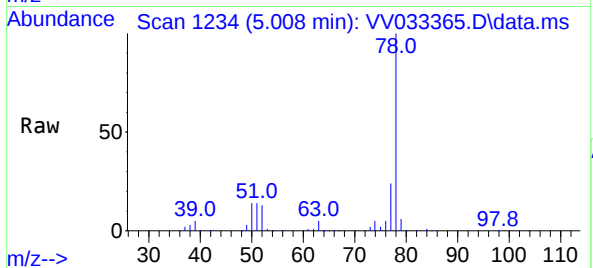




#33
Benzene
Concen: 108.505 ug/L
RT: 5.008 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

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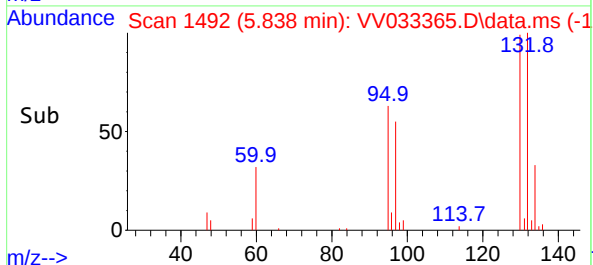
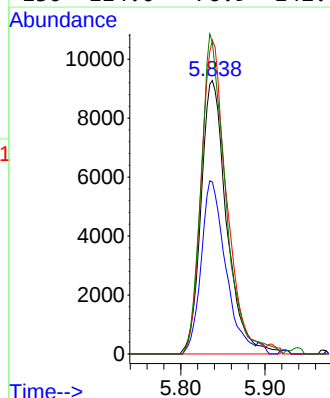
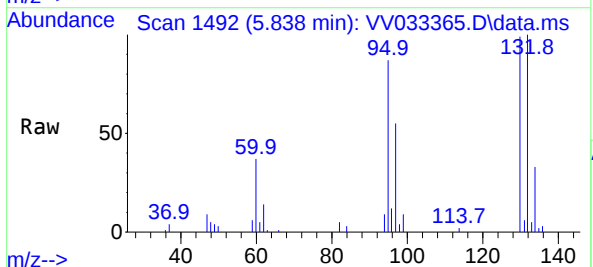
Tgt Ion: 78 Resp: 595336

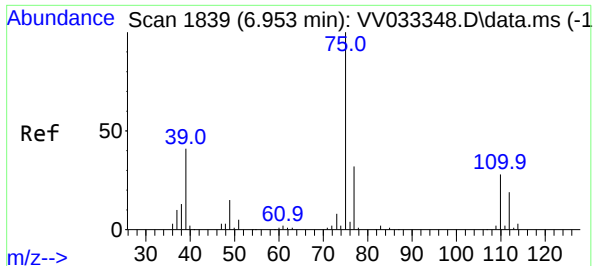


#34
Trichloroethene
Concen: 11.961 ug/L
RT: 5.838 min Scan# 1492
Delta R.T. 0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion: 95 Resp: 19606

Ion	Ratio	Lower	Upper
95	100		
97	62.9	45.8	85.0
132	114.8	77.4	143.8
130	114.0	76.9	142.7





#39

cis-1,3-Dichloropropene

Concen: 1.038 ug/L

RT: 6.912 min Scan# 1826

Delta R.T. -0.039 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Instrument :

MSVOA_V

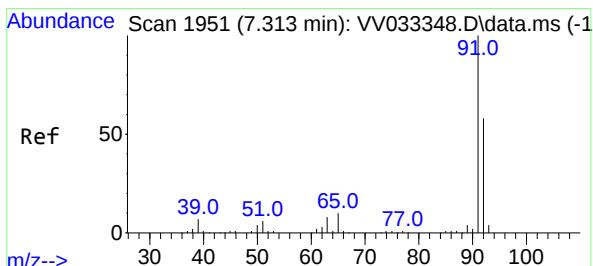
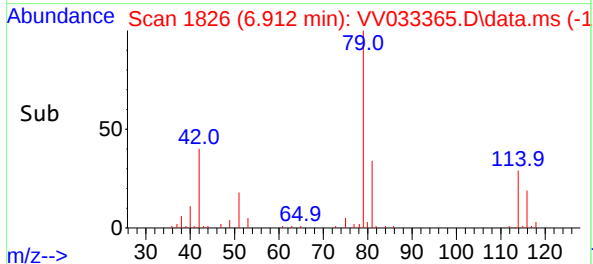
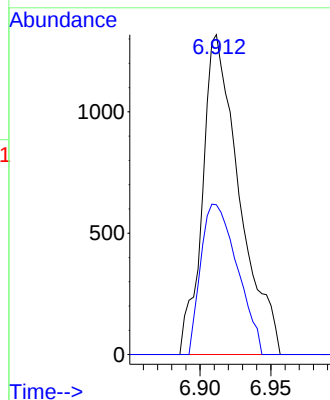
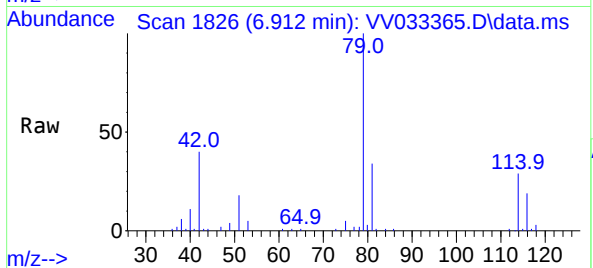
ClientSampleId :

Tgt Ion: 75 Resp: 2392

Ion Ratio Lower Upper

75 100

77 46.8 22.4 41.6#



#42

Toluene

Concen: 154.019 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VV033365.D

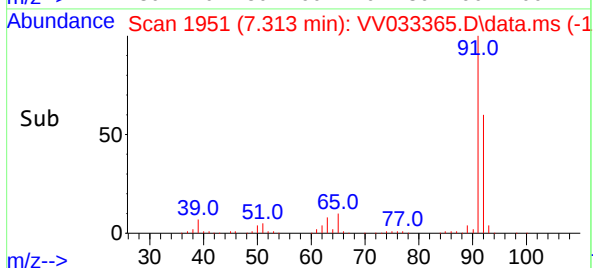
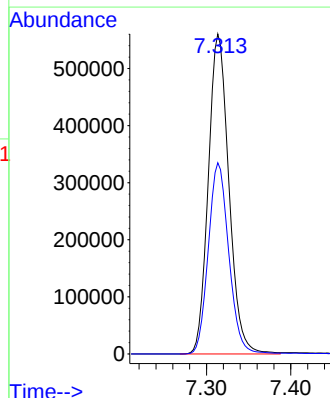
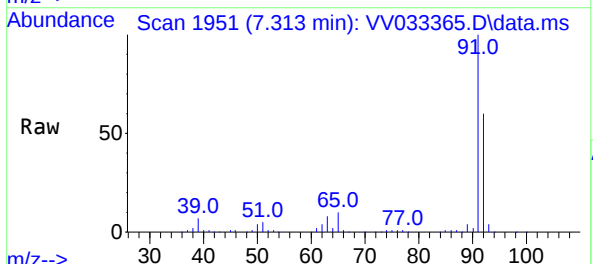
Acq: 15 Dec 2023 03:11

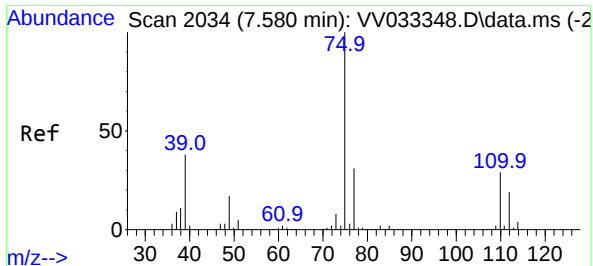
Tgt Ion: 91 Resp: 952262

Ion Ratio Lower Upper

91 100

92 59.7 41.3 76.7

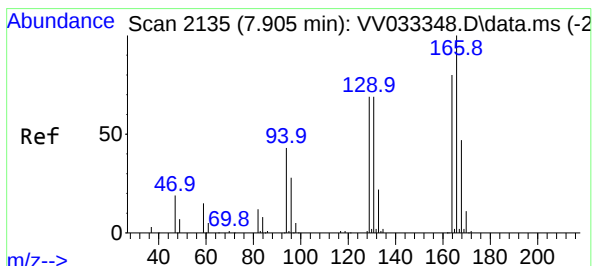
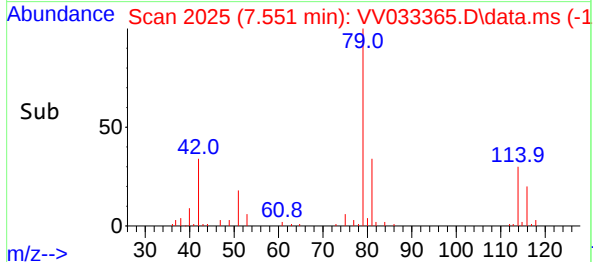
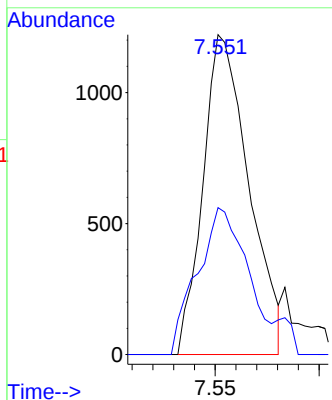
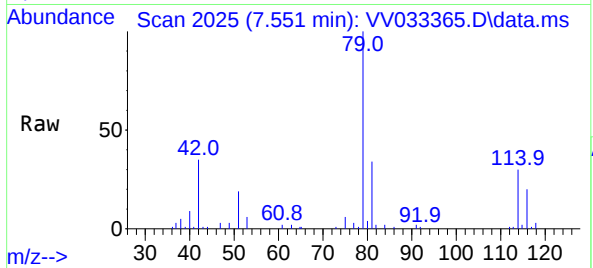




#44
trans-1,3-Dichloropropene
Concen: 0.803 ug/L
RT: 7.551 min Scan# 2034
Delta R.T. -0.029 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

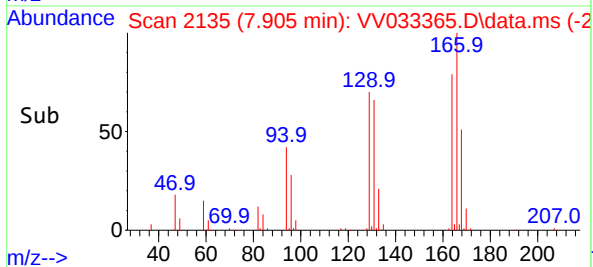
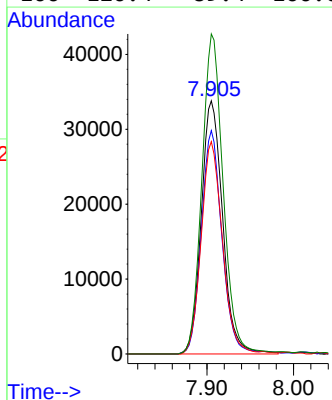
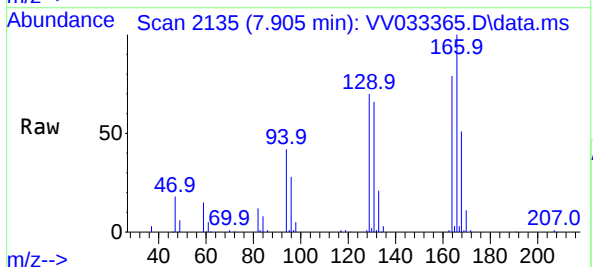
Instrument :
MSVOA_V
ClientSampleId :

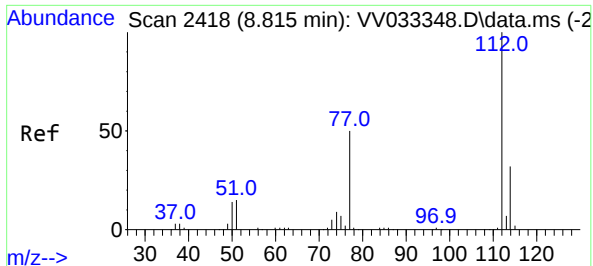
Tgt Ion: 75 Resp: 1871
Ion Ratio Lower Upper
75 100
77 45.9 22.0 41.0#



#46
Tetrachloroethene
Concen: 41.270 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. 0.000 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion:164 Resp: 58153
Ion Ratio Lower Upper
164 100
129 88.2 65.6 121.8
131 83.9 64.7 120.1
166 126.4 89.4 166.0

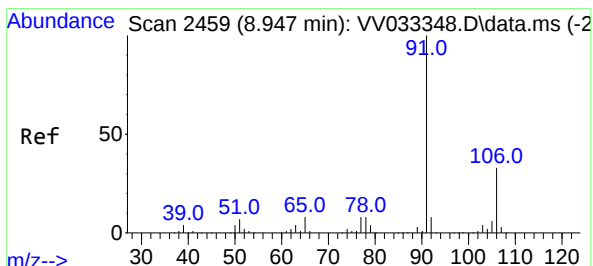
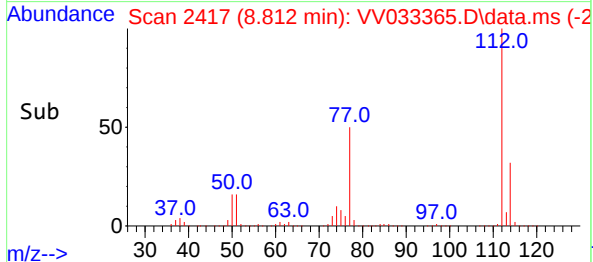
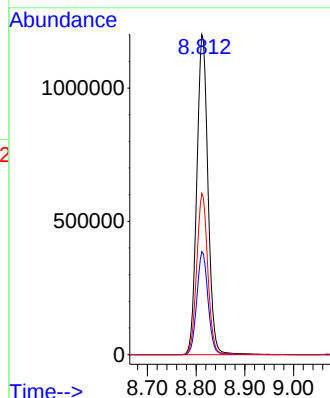
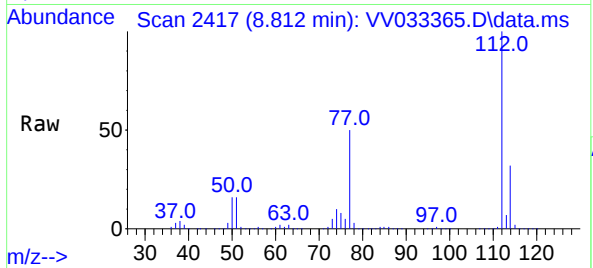




#51
Chlorobenzene
Concen: 440.777 ug/L
RT: 8.812 min Scan# 2418
Delta R.T. 0.000 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

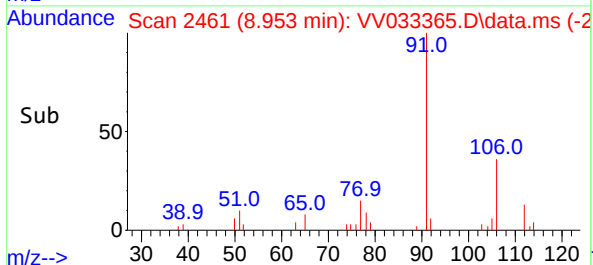
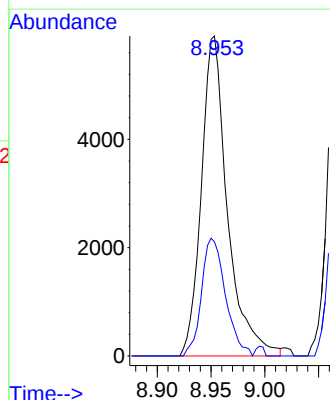
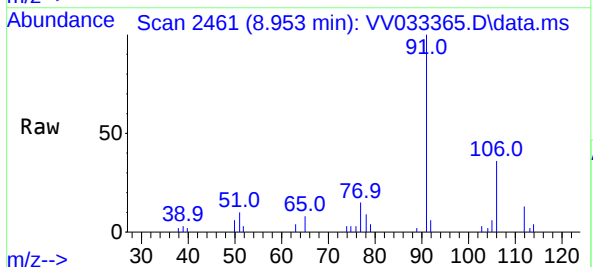
Instrument :
MSVOA_V
ClientSampleId :

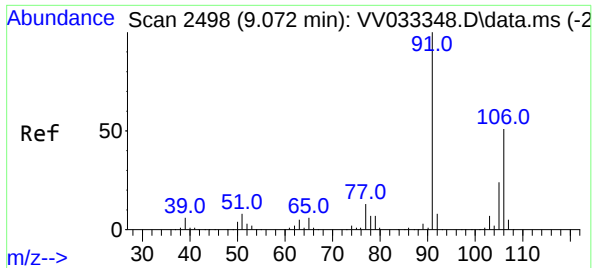
Tgt Ion:112 Resp: 1916421
Ion Ratio Lower Upper
112 100
114 32.2 22.9 42.5
77 50.4 42.6 64.0



#52
Ethylbenzene
Concen: 1.401 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion: 91 Resp: 9967
Ion Ratio Lower Upper
91 100
106 35.7 22.6 42.0

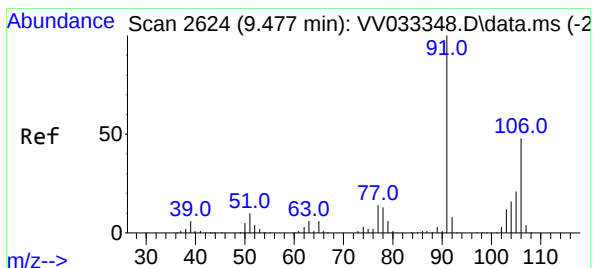
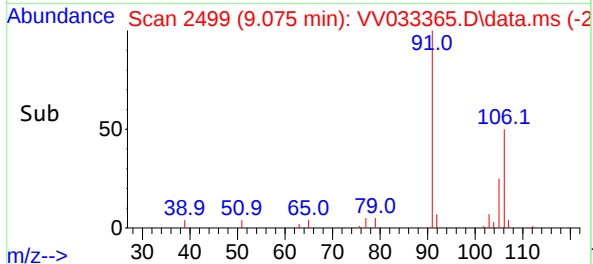
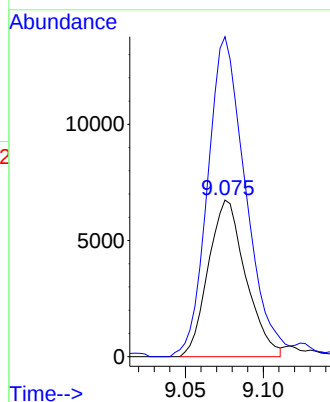
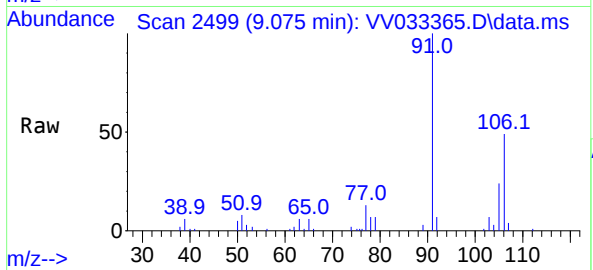




#53
m,p-Xylene
Concen: 3.995 ug/L
RT: 9.075 min Scan# 2498
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

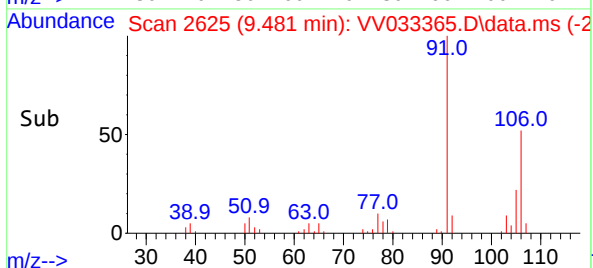
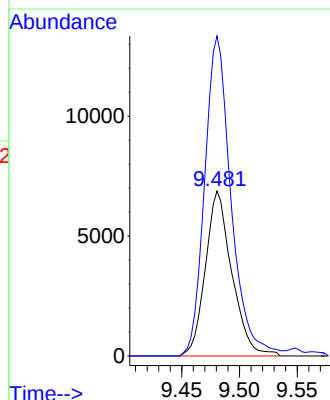
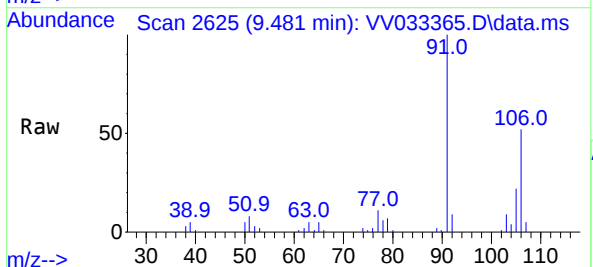
Instrument :
MSVOA_V
ClientSampleId :

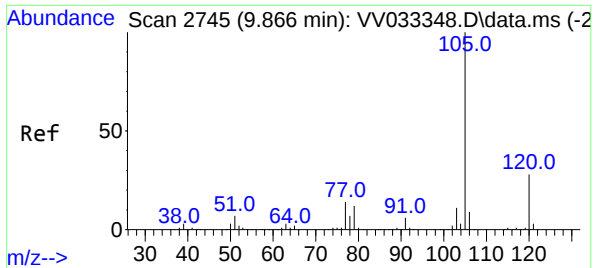
Tgt Ion:106 Resp: 11258
Ion Ratio Lower Upper
106 100
91 204.2 145.2 269.6



#54
o-Xylene
Concen: 3.936 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

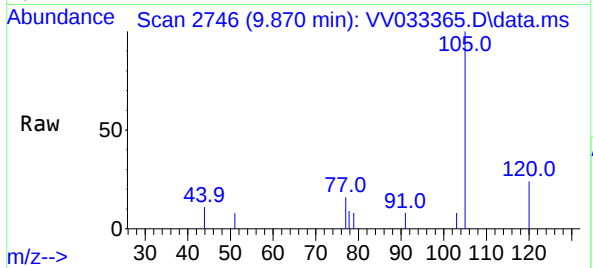
Tgt Ion:106 Resp: 10947
Ion Ratio Lower Upper
106 100
91 193.9 147.8 274.6



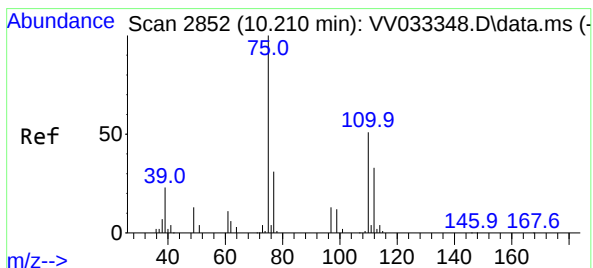
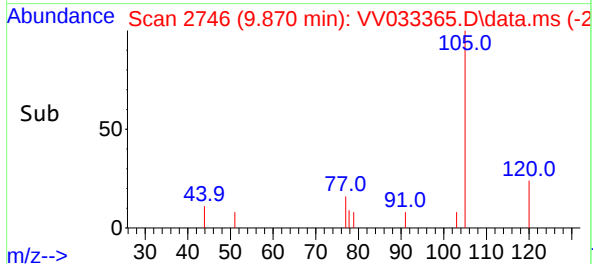
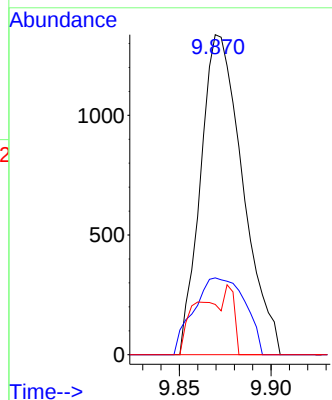


#60
Isopropylbenzene
Concen: 463.063 ug/L
RT: 9.870 min Scan# 2136
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Instrument :
MSVOA_V
ClientSampleId :

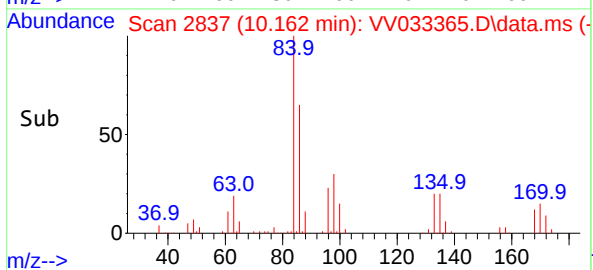
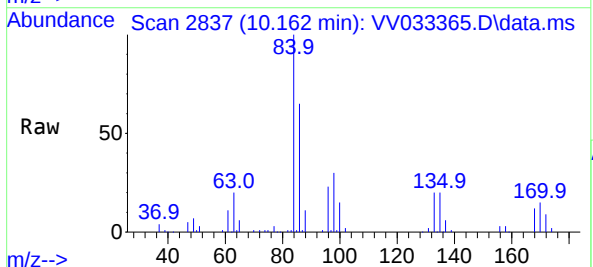
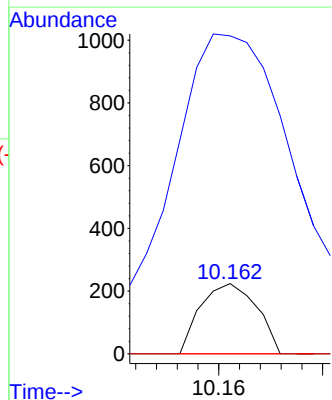


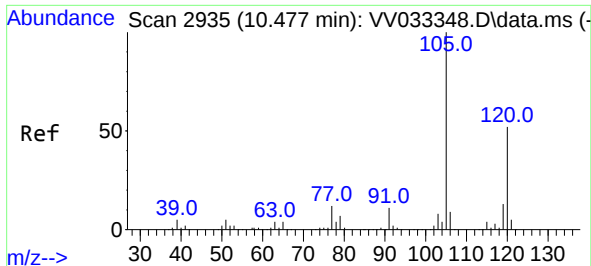
Tgt Ion:105 Resp: 2136
Ion Ratio Lower Upper
105 100
120 29.1 21.3 31.9
77 5.0 12.0 18.0#



#61
1,2,3-Trichloropropane
Concen: 168.413 ug/L
RT: 10.162 min Scan# 2837
Delta R.T. -0.045 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion: 75 Resp: 168
Ion Ratio Lower Upper
75 100
77 1099.4 27.0 40.6#
110 0.0 38.1 57.1#

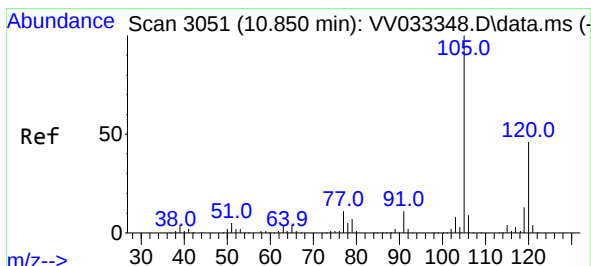
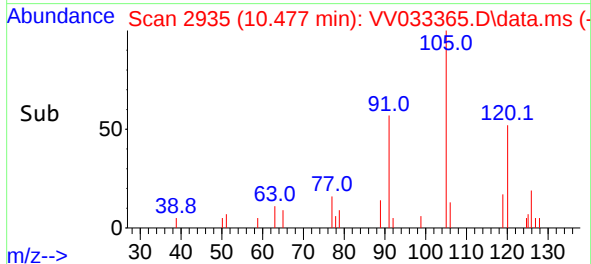
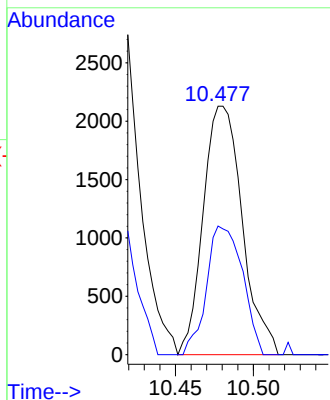
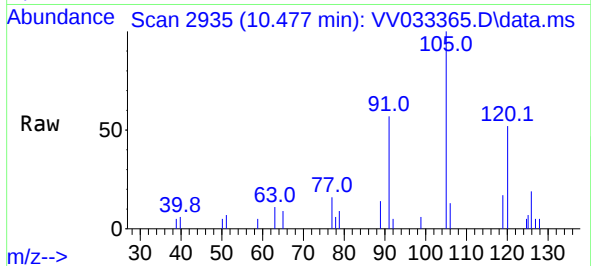




#62
1,3,5-Trimethylbenzene
Concen: 997.730 ug/L
RT: 10.477 min Scan# 2935
Delta R.T. 0.000 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

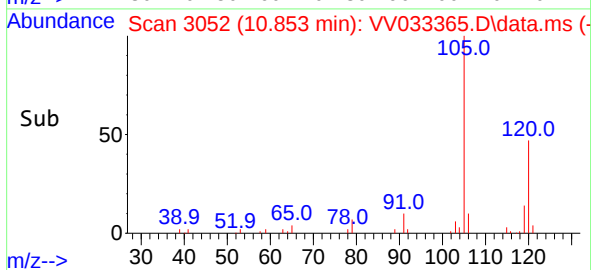
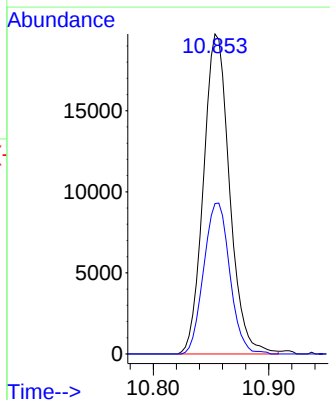
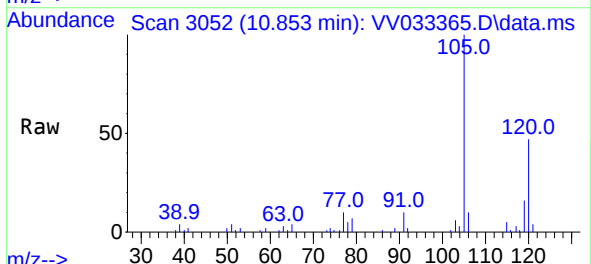
Instrument :
MSVOA_V
ClientSampleId :

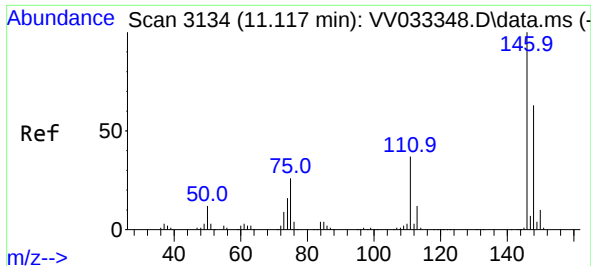
Tgt Ion:105 Resp: 3708
Ion Ratio Lower Upper
105 100
120 47.6 39.7 59.5



#63
1,2,4-Trimethylbenzene
Concen: 8006.041 ug/L
RT: 10.853 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion:105 Resp: 30987
Ion Ratio Lower Upper
105 100
120 46.8 36.7 55.1

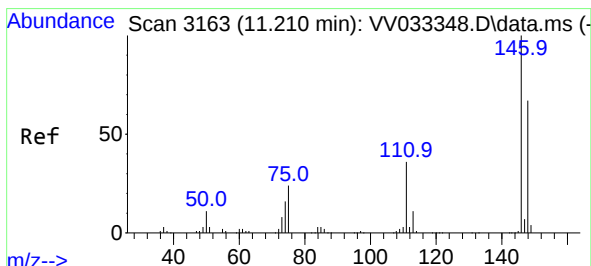
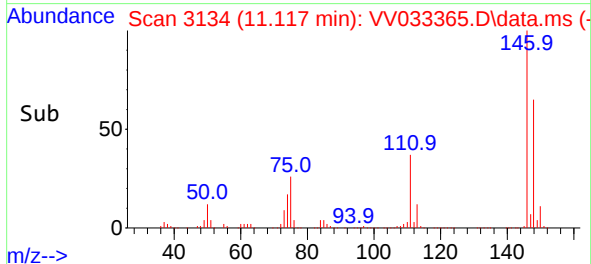
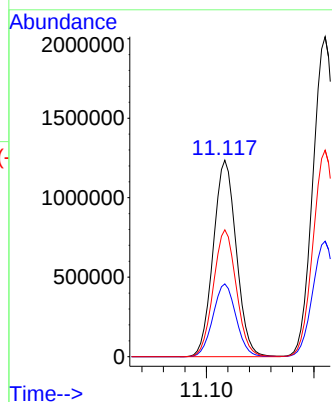
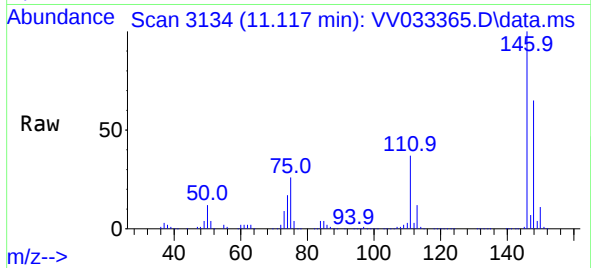




#64
1,3-Dichlorobenzene
Concen: 746929.188 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. 0.000 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

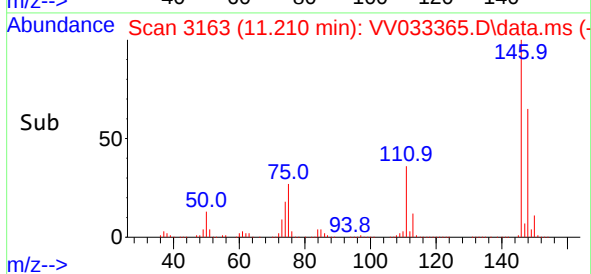
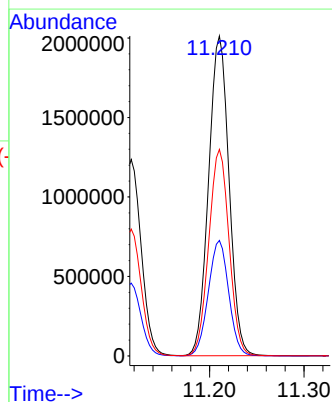
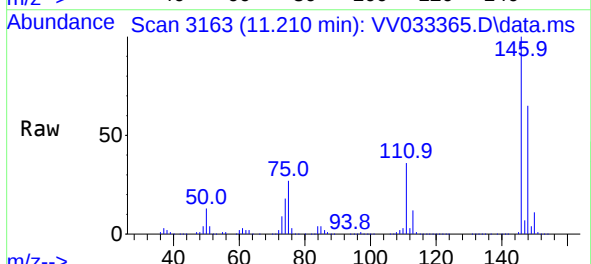
Instrument :
MSVOA_V
ClientSampleId :

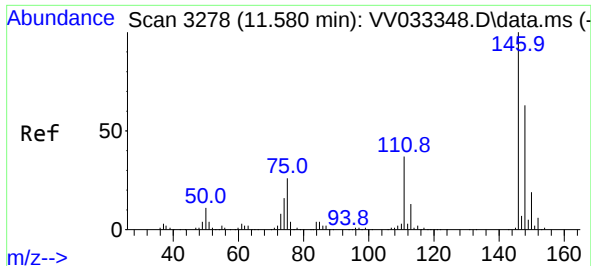
Tgt Ion:146 Resp: 1840686
Ion Ratio Lower Upper
146 100
111 37.0 26.2 48.6
148 64.6 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 1177543.733 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.003 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

Tgt Ion:146 Resp: 3014377
Ion Ratio Lower Upper
146 100
111 36.1 25.9 48.1
148 64.6 44.9 83.5





#67

1,2-Dichlorobenzene

Concen: 943074.150 ug/L

RT: 11.580 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Instrument :

MSVOA_V

ClientSampleId :

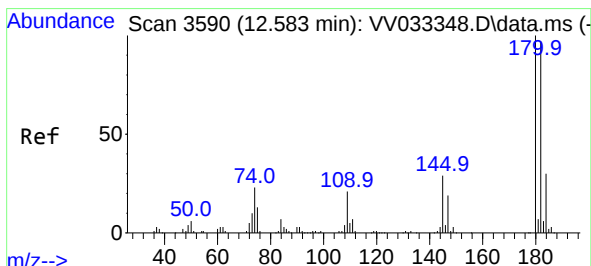
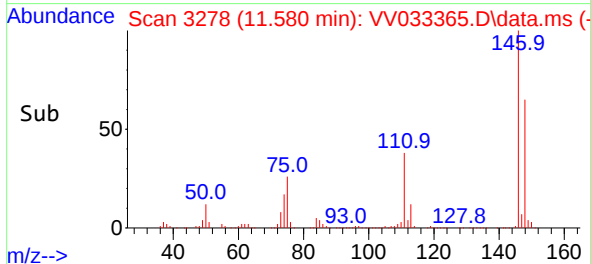
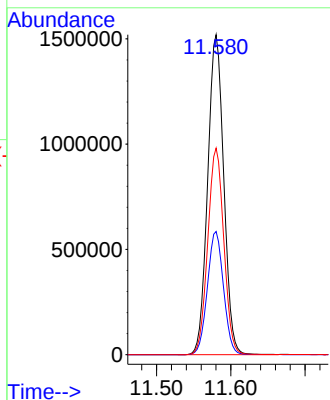
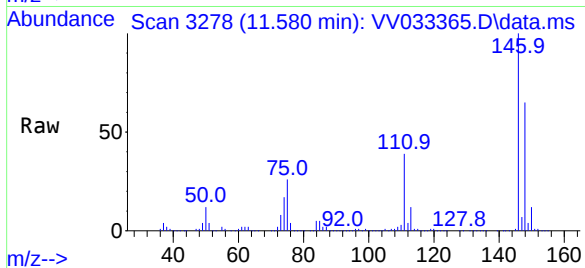
Tgt Ion:146 Resp: 2278404

Ion Ratio Lower Upper

146 100

111 38.5 32.4 48.6

148 64.6 51.8 77.8



#69

1,3,5-Trichlorobenzene

Concen: 2222.948 ug/L

RT: 13.204 min Scan# 3783

Delta R.T. 0.621 min

Lab File: VV033365.D

Acq: 15 Dec 2023 03:11

Tgt Ion:180 Resp: 4388

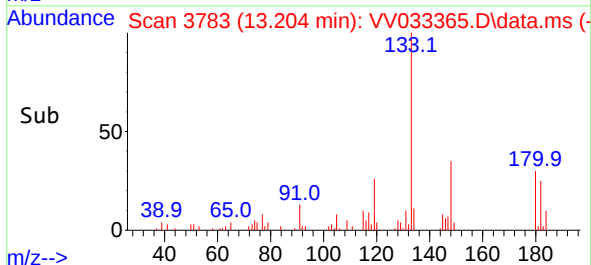
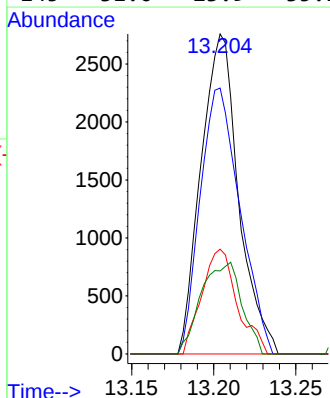
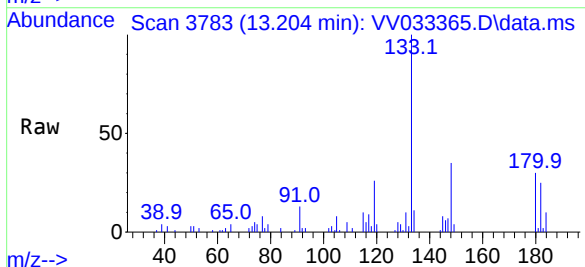
Ion Ratio Lower Upper

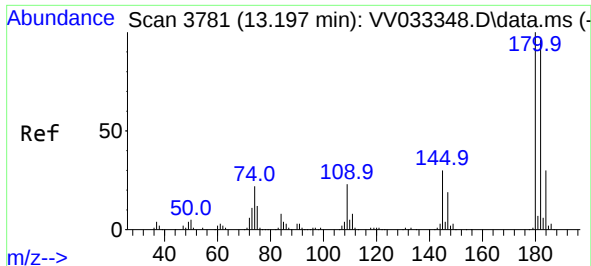
180 100

182 87.8 76.2 114.4

184 28.6 24.2 36.4

145 31.0 23.9 35.9

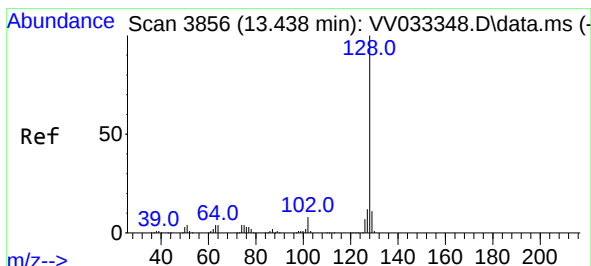
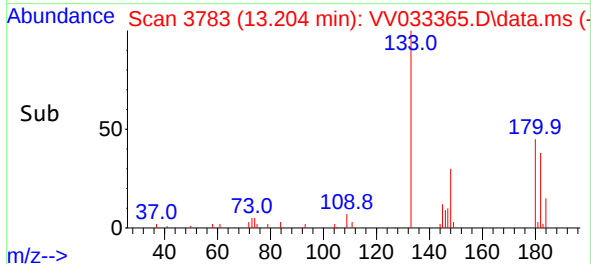
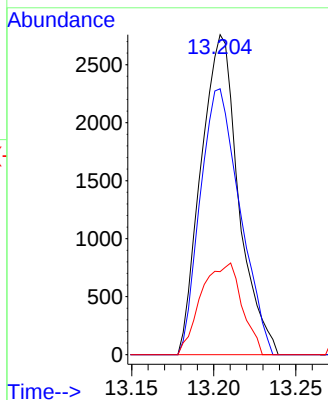
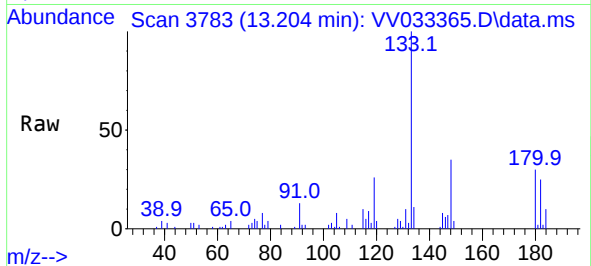




#70
1,2,4-trichlorobenzene
Concen: 2406.084 ug/L
RT: 13.204 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

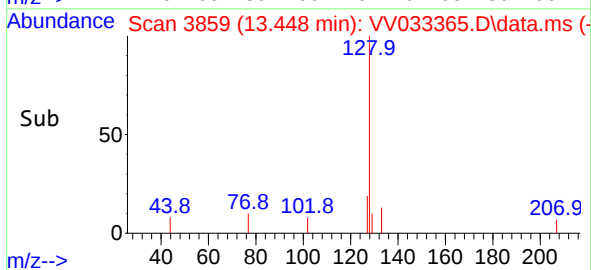
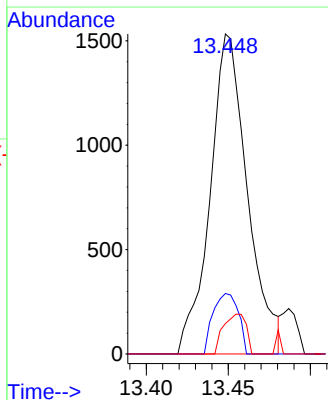
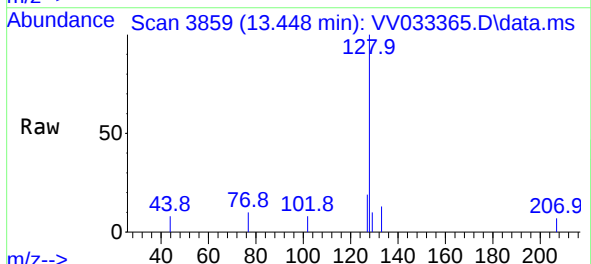
Instrument :
MSVOA_V
ClientSampleId :

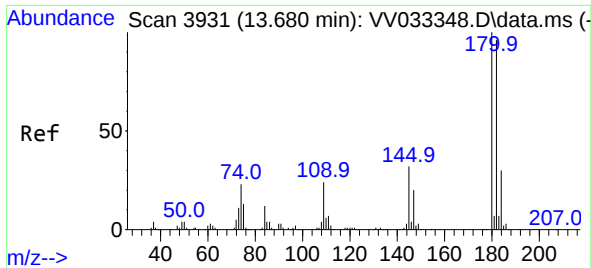
Tgt Ion:180 Resp: 4388
Ion Ratio Lower Upper
180 100
182 87.8 76.3 114.5
145 31.0 23.4 35.0



#71
Naphthalene
Concen: 545.019 ug/L
RT: 13.448 min Scan# 3859
Delta R.T. 0.010 min
Lab File: VV033365.D
Acq: 15 Dec 2023 03:11

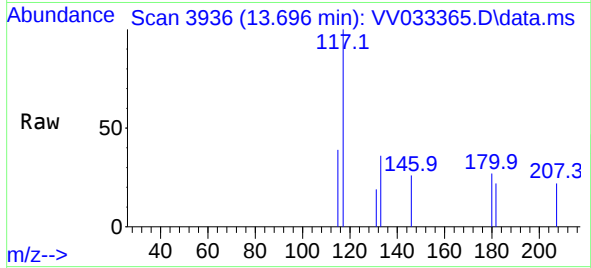
Tgt Ion:128 Resp: 2424
Ion Ratio Lower Upper
128 100
127 12.7 10.6 16.0
129 7.5 8.6 13.0#





#72
 1,2,3-Trichlorobenzene
 Concen: 107.402 ug/L
 RT: 13.696 min Scan# 3936
 Delta R.T. 0.016 min
 Lab File: VV033365.D
 Acq: 15 Dec 2023 03:11

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	38.6	75.2	112.8#
145	292.6	24.9	37.3#

