

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW021723\
 Data File : VW030066.D
 Acq On : 17 Feb 2023 15:01
 Operator : SY/MD
 Sample : VIBLK201
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK201

Quant Time: Feb 20 01:11:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM021723WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Feb 20 01:04:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	130840	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.796	117	125023	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	70509	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	53169	57.156	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	114.320%
7) Chloroethane-d5	1.536	69	43701	61.395	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	122.800%
11) 1,1-Dichloroethene-d2	2.066	63	71924	40.417	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.840%
21) 2-Butanone-d5	3.802	46	60232	103.753	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.750%
24) Chloroform-d	4.262	84	94577	54.698	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.400%
26) 1,2-Dichloroethane-d4	4.953	65	57741	56.495	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	113.000%
32) Benzene-d6	4.973	84	188889	56.887	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	113.780%
36) 1,2-Dichloropropane-d6	5.998	67	60119	56.940	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	113.880%
41) Toluene-d8	7.252	98	169450	54.074	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.140%
43) trans-1,3-Dichloroprop...	7.561	79	27967	53.300	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.600%
47) 2-Hexanone-d5	8.034	63	52128	105.903	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.900%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	87774	55.422	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.840%
66) 1,2-Dichlorobenzene-d4	11.571	152	73310	58.379	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	116.760%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.108	85	1007	0.727	ug/L #	83
3) Chloromethane	1.221	50	9767	5.496	ug/L	93
5) Vinyl chloride	1.285	62	1691	1.366	ug/L #	45
9) Trichlorofluoromethane	1.719	101	1232	0.751	ug/L	90
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	1574	1.568	ug/L #	70
12) 1,1-Dichloroethene	2.073	96	1495	1.655	ug/L #	1
13) Acetone	2.127	43	1857	4.168	ug/L	90
14) Carbon disulfide	2.246	76	19217	7.195	ug/L	97
16) Methylene chloride	2.455	84	2098	2.122	ug/L	92
17) trans-1,2-Dichloroethene	2.706	96	2445	2.648	ug/L	91
20) cis-1,2-Dichloroethene	3.835	96	1680	1.645	ug/L	100
29) Cyclohexane	4.597	56	955	0.656	ug/L #	65
34) Trichloroethene	5.844	95	1623	1.617	ug/L	86
35) Methylcyclohexane	6.060	83	1821	1.143	ug/L	88
39) cis-1,3-Dichloropropene	6.963	75	1445	0.885	ug/L	96
46) Tetrachloroethene	7.918	164	1086	1.287	ug/L	90
50) 1,2-Dibromoethane	8.297	107	985	0.891	ug/L #	92
51) Chlorobenzene	8.828	112	3909	1.453	ug/L	92
52) Ethylbenzene	8.957	91	5216	1.167	ug/L	99

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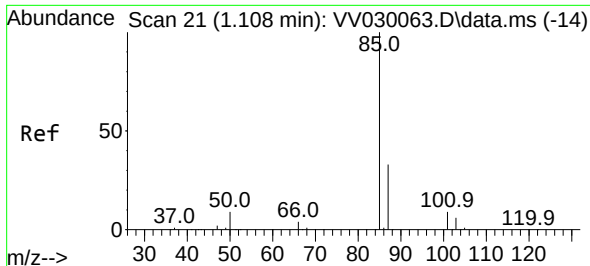
Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK201

Quant Time: Feb 20 01:11:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM021723WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Feb 20 01:04:02 2023
 Response via : Initial Calibration

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

53) m,p-Xylene	9.082	106	1825	1.069	ug/L	94
54) o-Xylene	9.493	106	1488	0.904	ug/L	76
55) Styrene	9.513	104	4033	1.435	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.188	83	2041	1.238	ug/L #	96
60) Isopropylbenzene	9.876	105	4584	1.093	ug/L #	94
61) 1,2,3-Trichloropropane	10.223	75	1733	1.486	ug/L #	90
62) 1,3,5-Trimethylbenzene	10.487	105	4647	1.338	ug/L	97
63) 1,2,4-Trimethylbenzene	10.866	105	5412	1.586	ug/L	91
64) 1,3-Dichlorobenzene	11.130	146	6783	3.210	ug/L	96
65) 1,4-Dichlorobenzene	11.220	146	7829	3.621	ug/L	97
67) 1,2-Dichlorobenzene	11.590	146	6734	3.201	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.378	75	1778	5.224	ug/L	92
70) 1,2,4-trichlorobenzene	13.210	180	14936	9.424	ug/L	100
72) 1,2,3-Trichlorobenzene	13.693	180	19766	12.708	ug/L	99

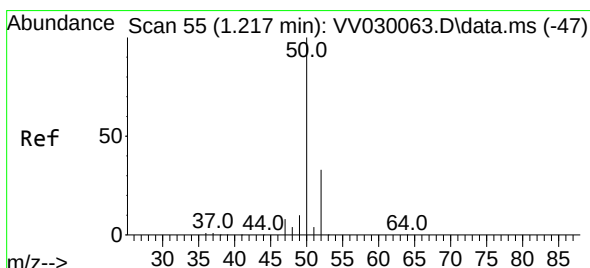
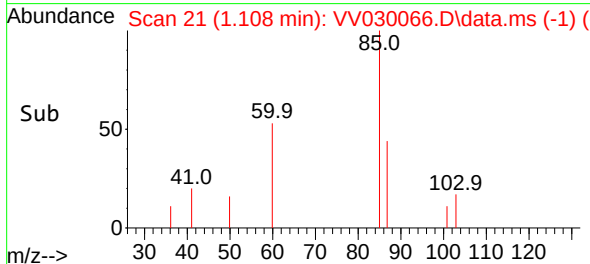
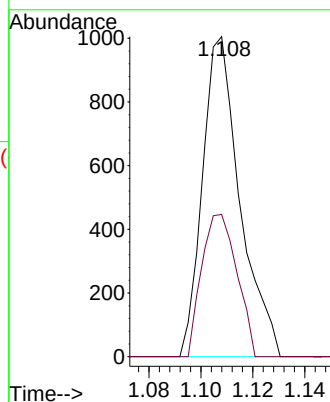
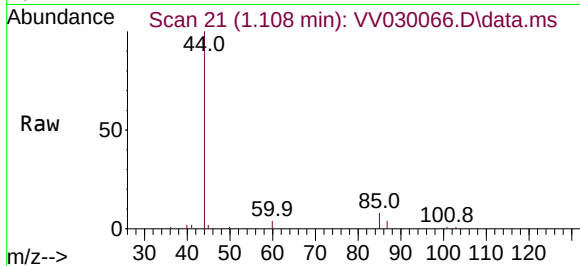
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 0.727 ug/L
 RT: 1.108 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

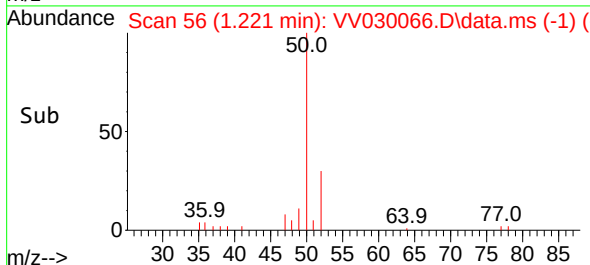
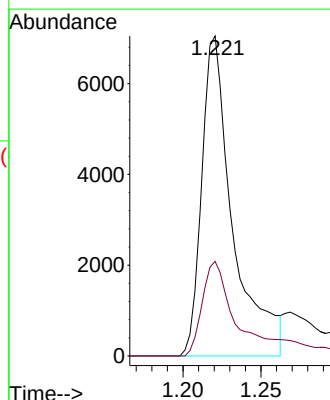
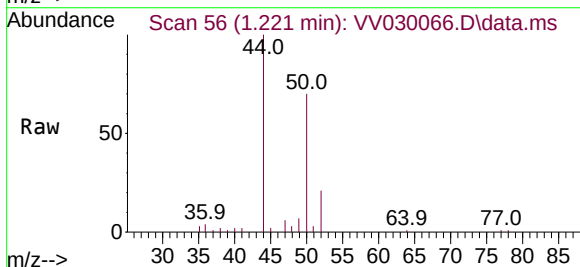
Instrument :
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 ClientSampleId :
 VIBLK201

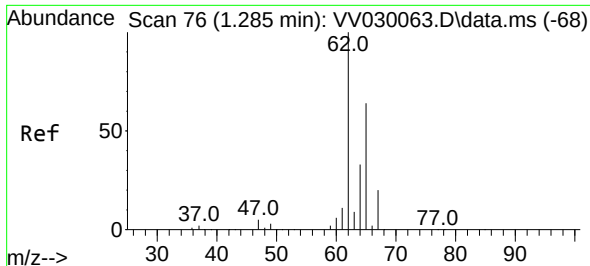
Tgt Ion: 85 Resp: 1007
 Ion Ratio Lower Upper
 85 100
 87 41.8 26.0 39.0#



#3
 Chloromethane
 Concen: 5.496 ug/L
 RT: 1.221 min Scan# 56
 Delta R.T. 0.003 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

Tgt Ion: 50 Resp: 9767
 Ion Ratio Lower Upper
 50 100
 52 29.5 23.4 43.4

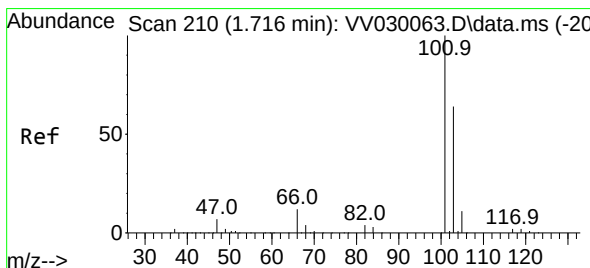
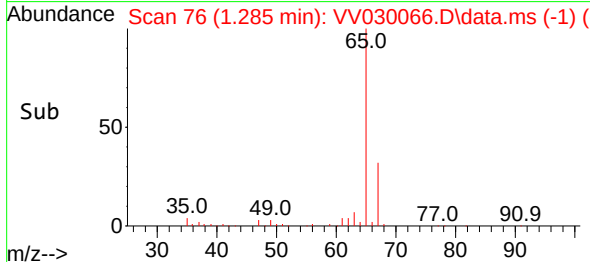
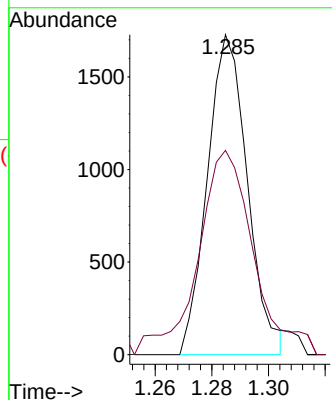
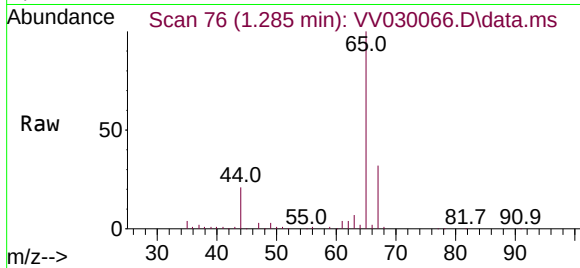




#5
 Vinyl chloride
 Concen: 1.366 ug/L
 RT: 1.285 min Scan# 76
 Delta R.T. -0.000 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

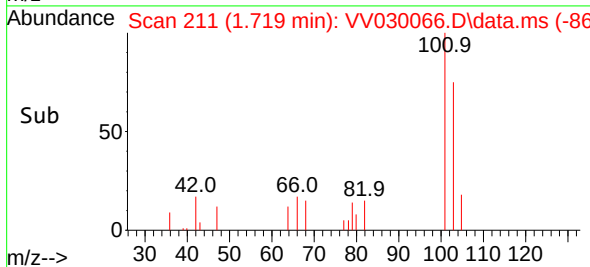
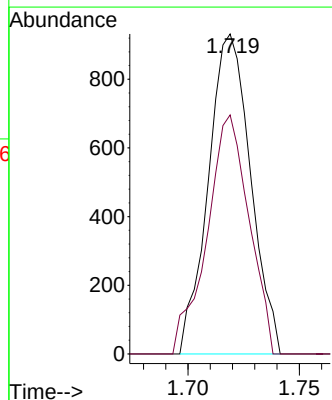
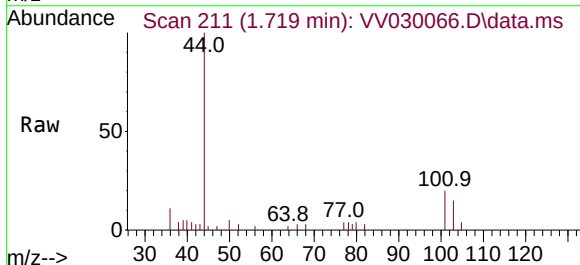
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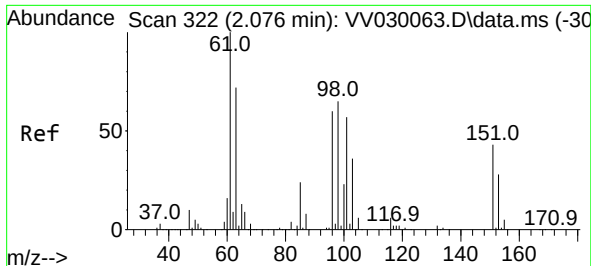
Tgt Ion: 62 Resp: 1691
 Ion Ratio Lower Upper
 62 100
 64 63.8 22.9 42.5#



#9
 Trichlorofluoromethane
 Concen: 0.751 ug/L
 RT: 1.719 min Scan# 211
 Delta R.T. 0.003 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

Tgt Ion: 101 Resp: 1232
 Ion Ratio Lower Upper
 101 100
 103 73.9 52.6 78.8

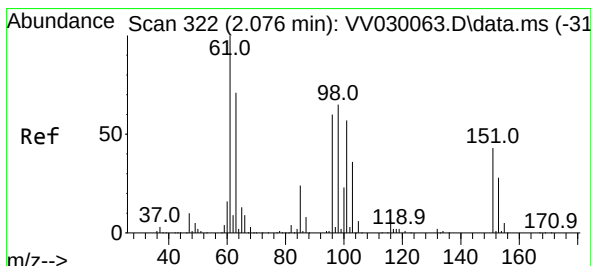
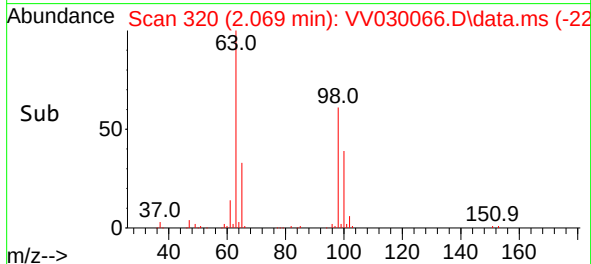
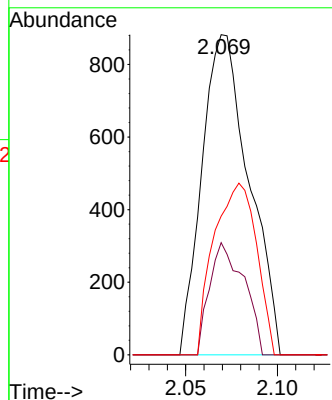
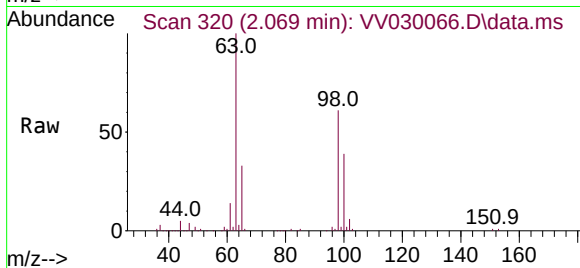




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.568 ug/L
 RT: 2.069 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

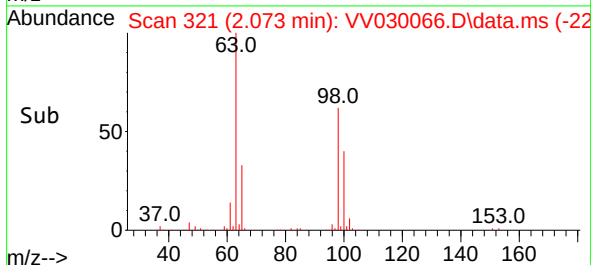
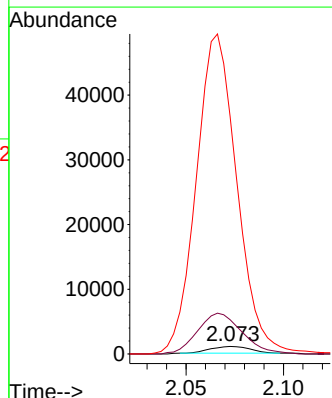
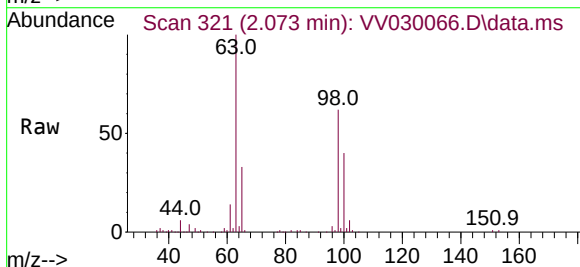
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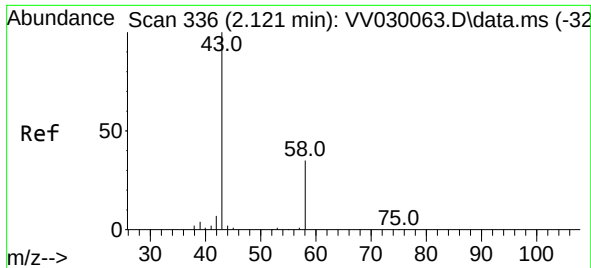
Tgt Ion:101 Resp: 1574
 Ion Ratio Lower Upper
 101 100
 85 25.5 33.4 50.2#
 151 48.5 60.8 91.2#



#12
 1,1-Dichloroethene
 Concen: 1.655 ug/L
 RT: 2.073 min Scan# 321
 Delta R.T. -0.003 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

Tgt Ion: 96 Resp: 1495
 Ion Ratio Lower Upper
 96 100
 61 454.4 115.8 215.2#
 63 3156.0 83.4 154.8#





#13

Acetone

Concen: 4.168 ug/L

RT: 2.127 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

Instrument :

MSVOA_V

ClientSampleId :

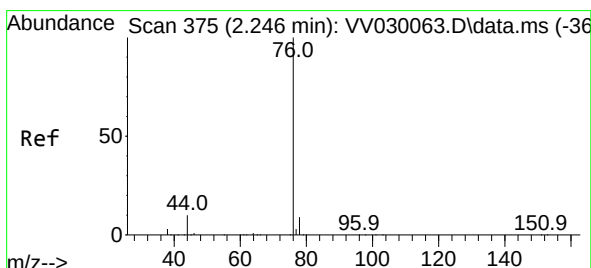
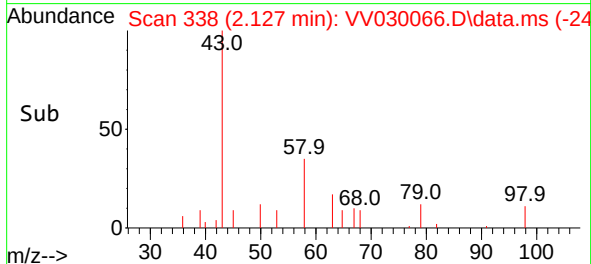
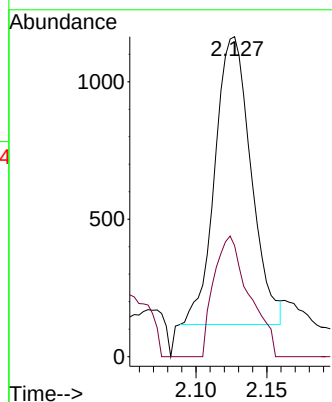
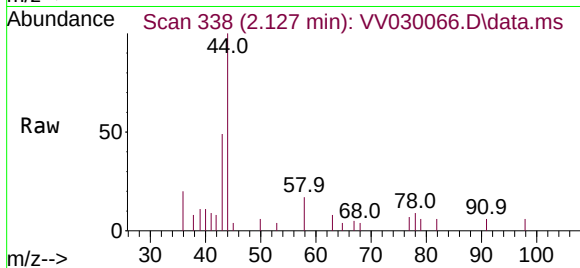
VIBLK201

Tgt Ion: 43 Resp: 1857

Ion Ratio Lower Upper

43 100

58 41.0 0.0 70.6



#14

Carbon disulfide

Concen: 7.195 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

Lab File: VV030066.D

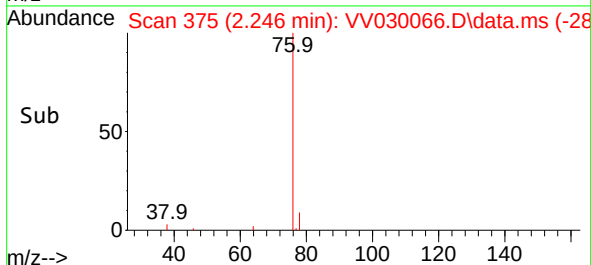
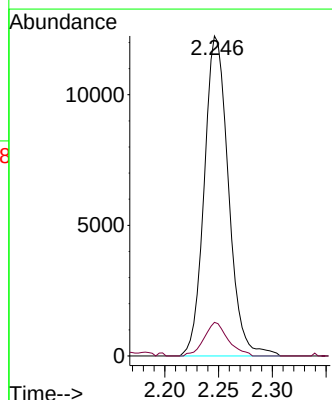
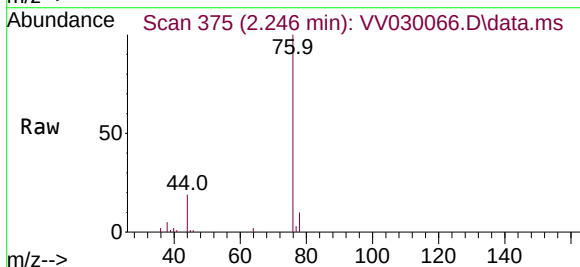
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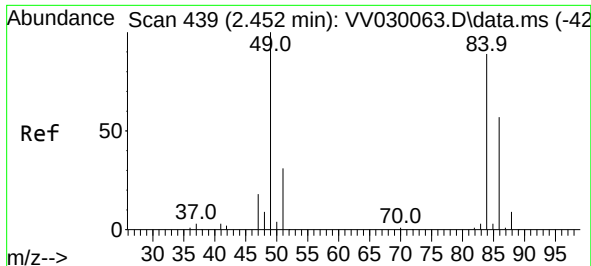
Tgt Ion: 76 Resp: 19217

Ion Ratio Lower Upper

76 100

78 10.5 7.4 11.2

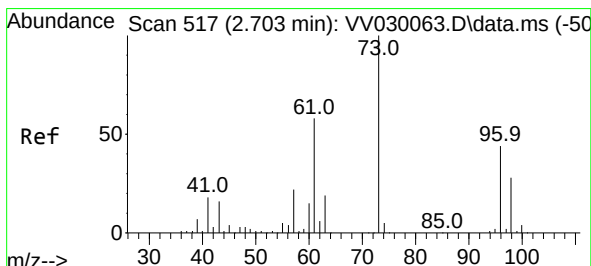
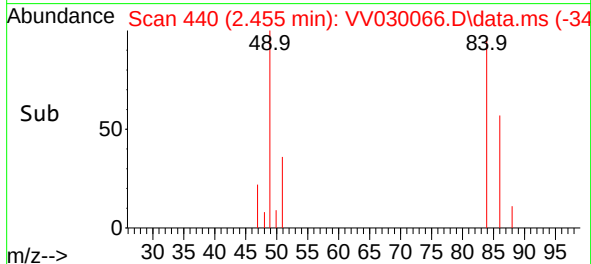
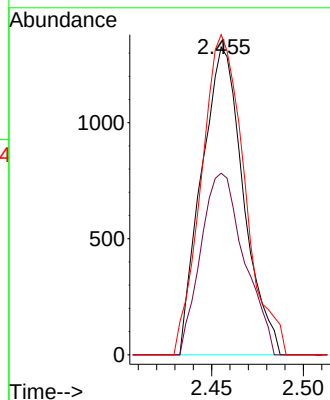
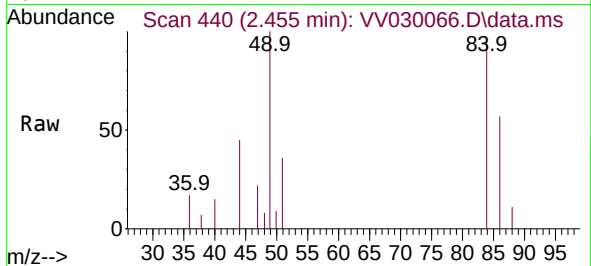




#16
Methylene chloride
Concen: 2.122 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

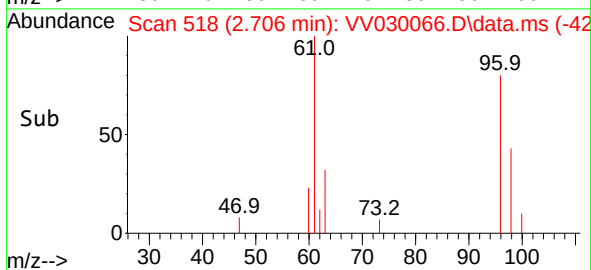
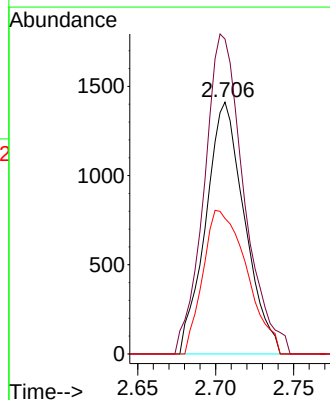
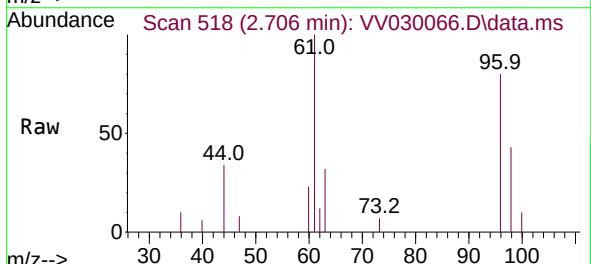
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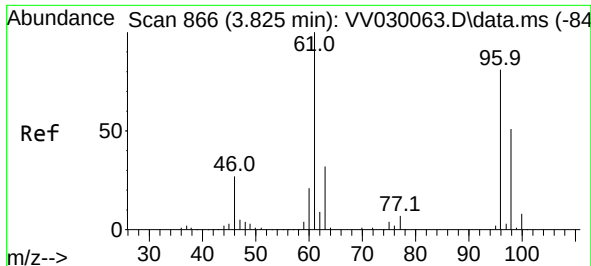
Tgt Ion: 84 Resp: 2098
Ion Ratio Lower Upper
84 100
86 59.0 45.1 83.7
49 104.0 78.7 146.1



#17
trans-1,2-Dichloroethene
Concen: 2.648 ug/L
RT: 2.706 min Scan# 518
Delta R.T. 0.003 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

Tgt Ion: 96 Resp: 2445
Ion Ratio Lower Upper
96 100
61 125.0 93.3 173.3
98 53.8 44.1 81.9

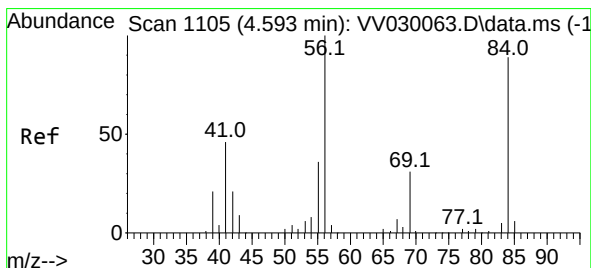
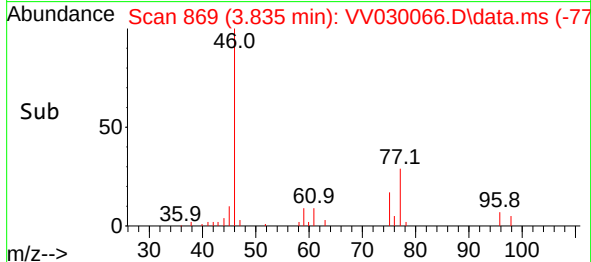
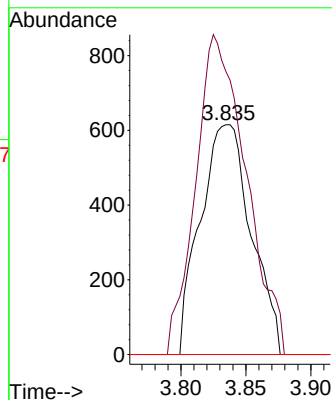
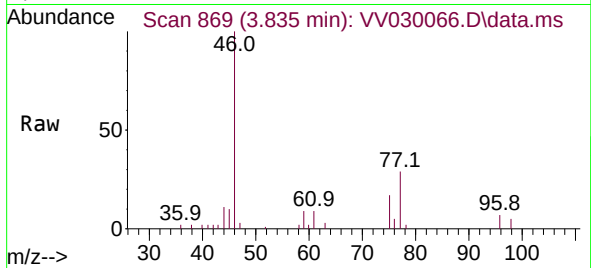




#20
 cis-1,2-Dichloroethene
 Concen: 1.645 ug/L
 RT: 3.835 min Scan# 869
 Delta R.T. 0.010 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

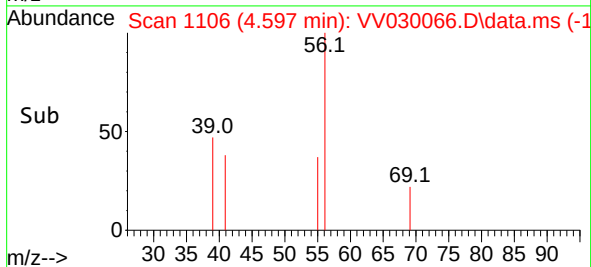
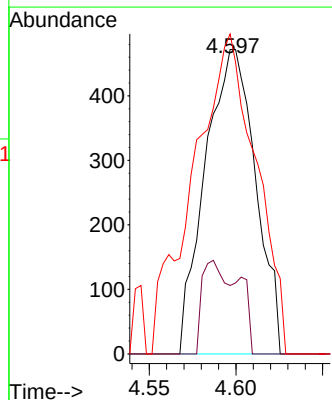
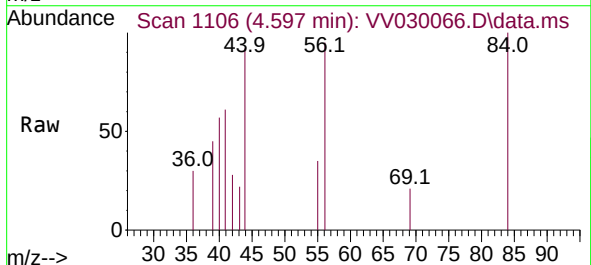
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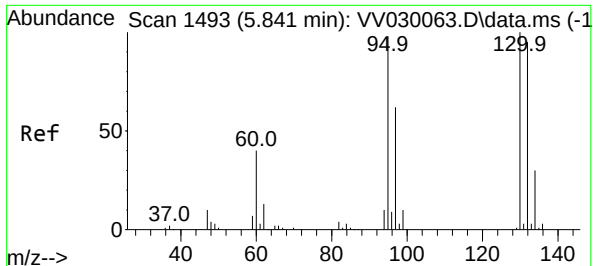
Tgt Ion: 96 Resp: 1680
 Ion Ratio Lower Upper
 96 100
 61 123.3 86.0 159.6
 68 0.0 0.0 0.0



#29
 Cyclohexane
 Concen: 0.656 ug/L
 RT: 4.597 min Scan# 1106
 Delta R.T. 0.003 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

Tgt Ion: 56 Resp: 955
 Ion Ratio Lower Upper
 56 100
 69 4.7 25.3 37.9#
 84 119.5 73.0 109.4#





#34

Trichloroethene

Concen: 1.617 ug/L

RT: 5.844 min Scan# 1493

Delta R.T. 0.003 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

Instrument :

MSVOA_V

ClientSampleId :

VIBLK201

Tgt Ion: 95 Resp: 1623

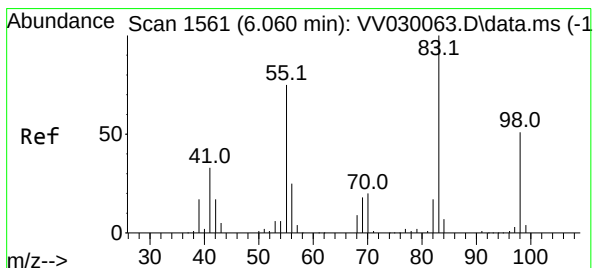
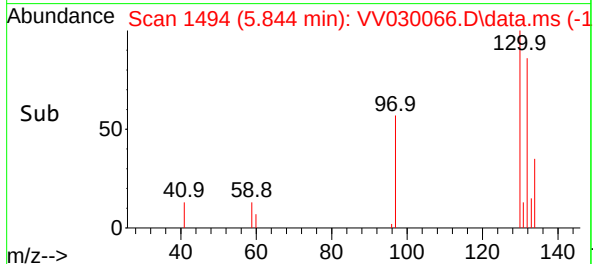
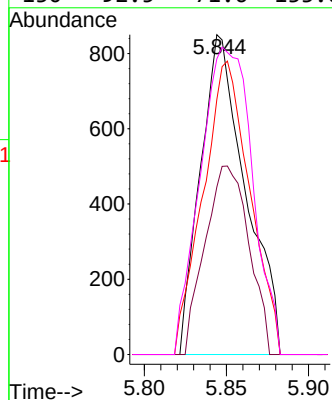
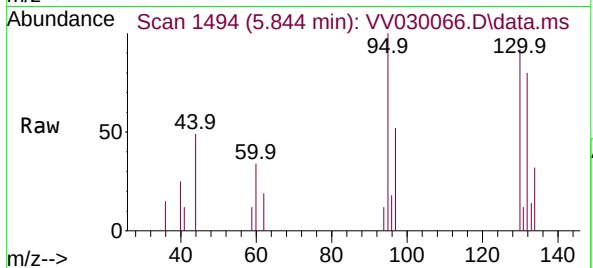
Ion Ratio Lower Upper

95 100

97 52.4 44.1 81.9

132 79.8 68.3 126.9

130 92.5 71.6 133.0



#35

Methylcyclohexane

Concen: 1.143 ug/L

RT: 6.060 min Scan# 1561

Delta R.T. 0.000 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

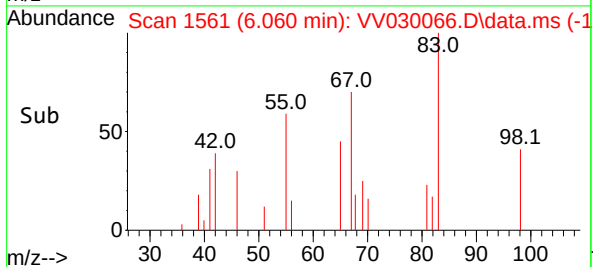
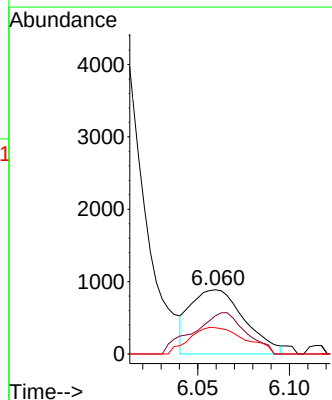
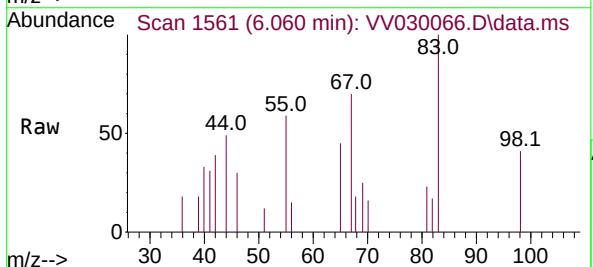
Tgt Ion: 83 Resp: 1821

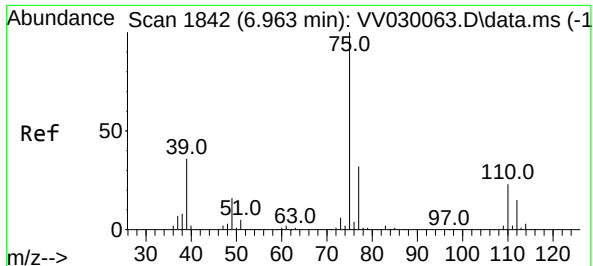
Ion Ratio Lower Upper

83 100

55 62.2 58.4 87.6

98 42.3 39.8 59.8





#39

cis-1,3-Dichloropropene

Concen: 0.885 ug/L

RT: 6.963 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

Instrument :

MSVOA_V

ClientSampleId :

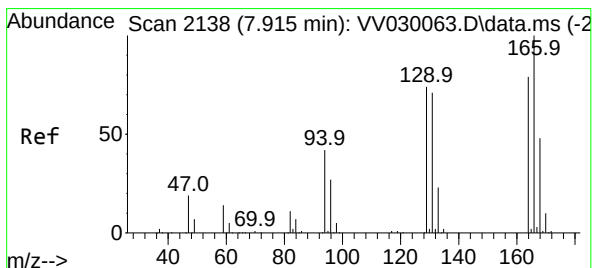
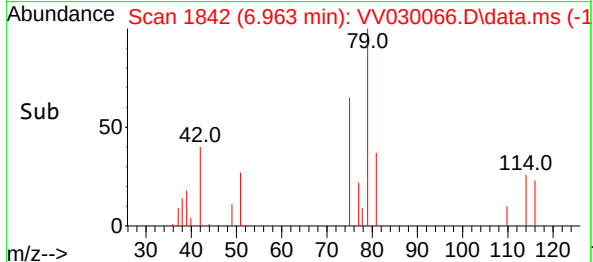
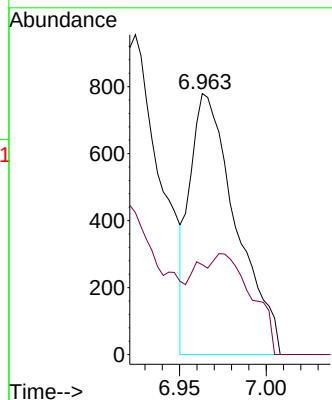
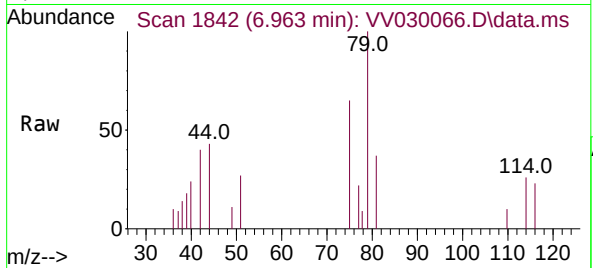
VIBLK201

Tgt Ion: 75 Resp: 1445

Ion Ratio Lower Upper

75 100

77 34.4 22.4 41.6



#46

Tetrachloroethene

Concen: 1.287 ug/L

RT: 7.918 min Scan# 2139

Delta R.T. 0.003 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

Tgt Ion: 164 Resp: 1086

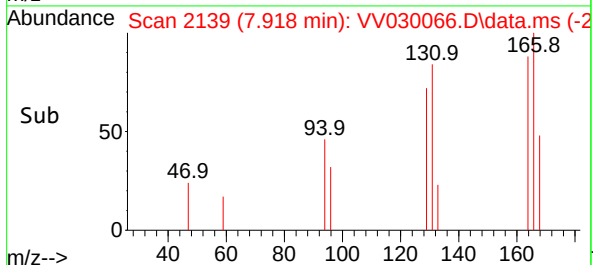
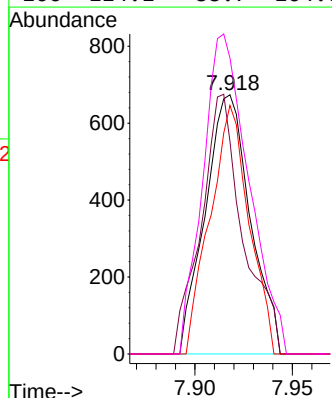
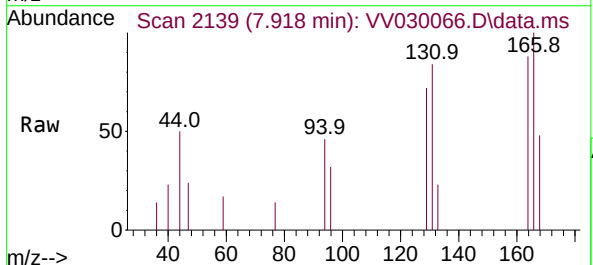
Ion Ratio Lower Upper

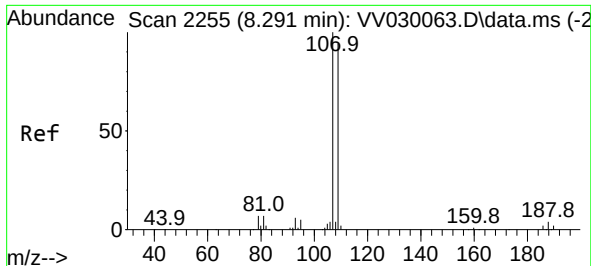
164 100

129 82.0 65.2 121.0

131 95.8 63.1 117.3

166 114.1 88.7 164.7





#50

1,2-Dibromoethane

Concen: 0.891 ug/L

RT: 8.297 min Scan# 21

Delta R.T. 0.006 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

Instrument :

MSVOA_V

ClientSampleId :

VIBLK201

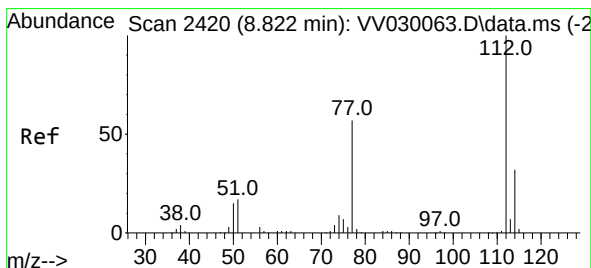
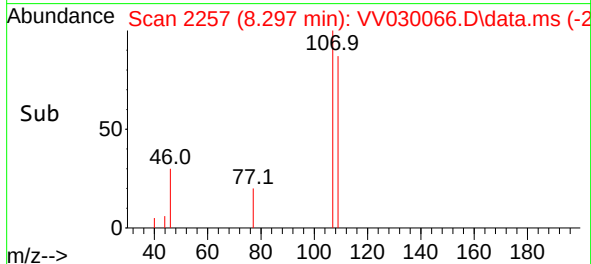
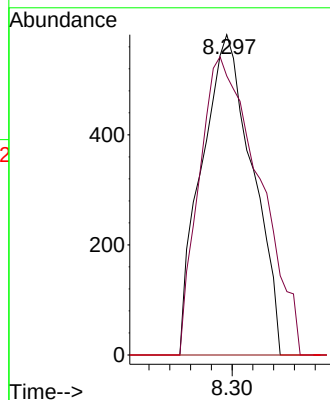
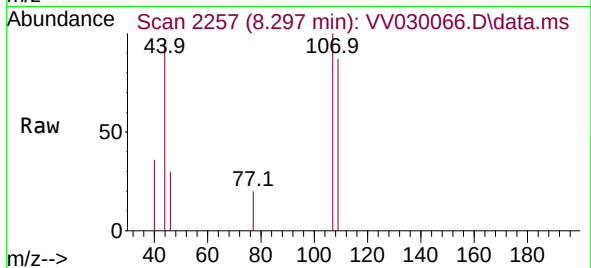
Tgt Ion:107 Resp: 985

Ion Ratio Lower Upper

107 100

109 87.1 66.0 122.6

188 0.0 3.4 5.0#



#51

Chlorobenzene

Concen: 1.453 ug/L

RT: 8.828 min Scan# 2422

Delta R.T. 0.006 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

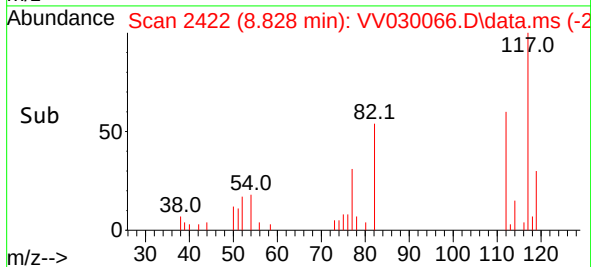
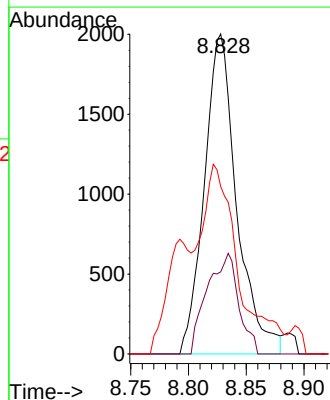
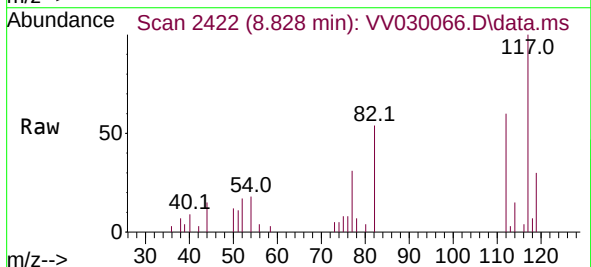
Tgt Ion:112 Resp: 3909

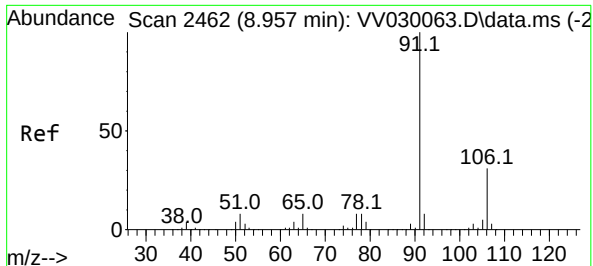
Ion Ratio Lower Upper

112 100

114 25.7 22.3 41.3

77 52.3 46.0 69.0

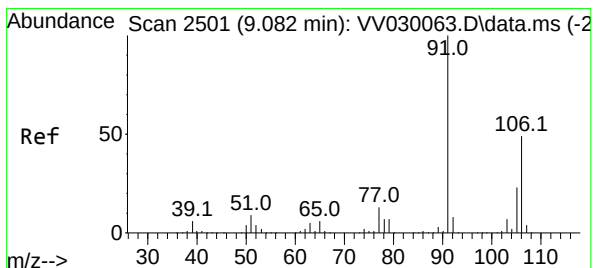
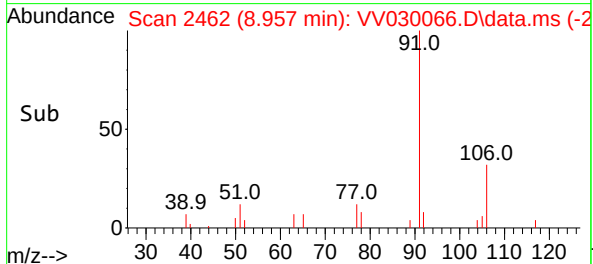
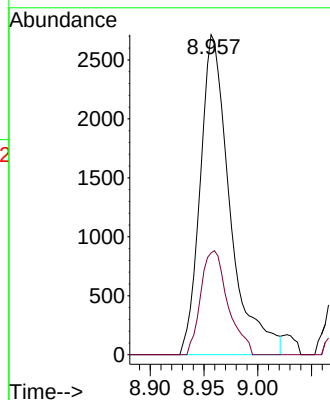
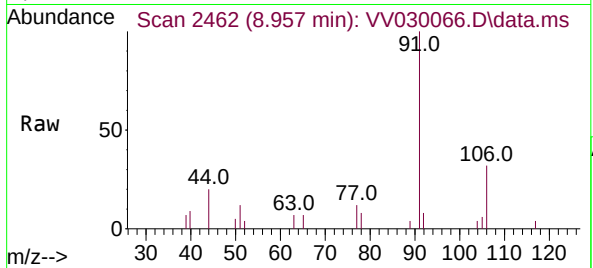




#52
Ethylbenzene
Concen: 1.167 ug/L
RT: 8.957 min Scan# 2462
Delta R.T. -0.000 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

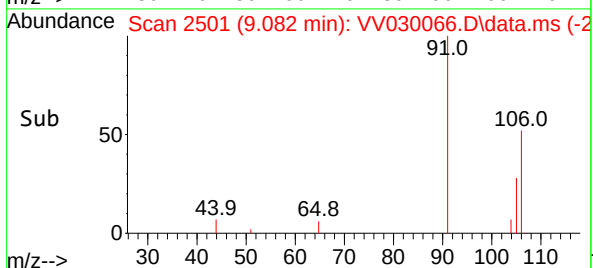
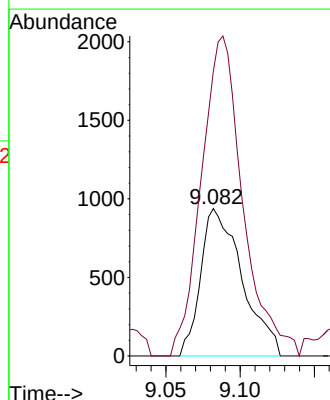
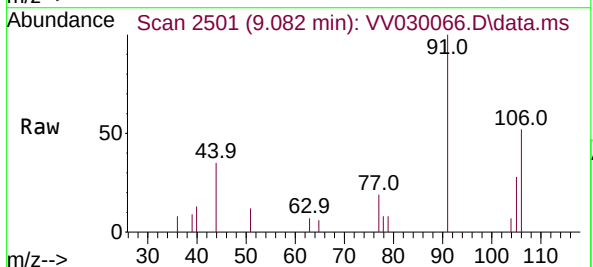
Instrument :
MSVOA_V
ClientSampleId :
VIBLK201

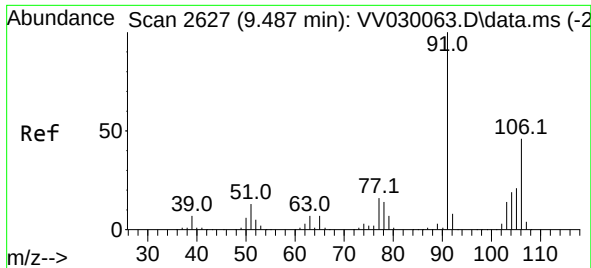
Tgt Ion: 91 Resp: 5216
Ion Ratio Lower Upper
91 100
106 31.8 22.0 40.8



#53
m,p-Xylene
Concen: 1.069 ug/L
RT: 9.082 min Scan# 2501
Delta R.T. -0.000 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

Tgt Ion: 106 Resp: 1825
Ion Ratio Lower Upper
106 100
91 193.2 142.0 263.8

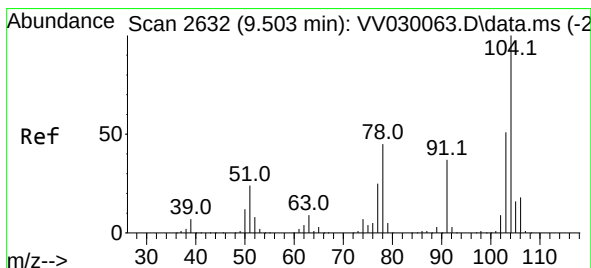
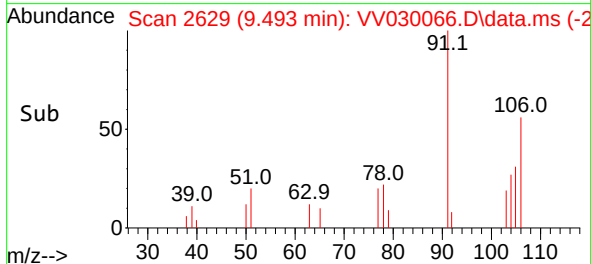
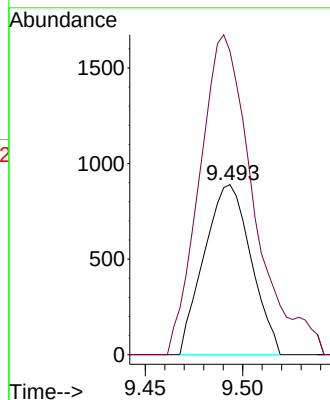
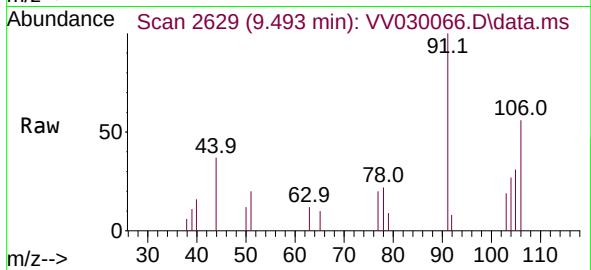




#54
o-Xylene
Concen: 0.904 ug/L
RT: 9.493 min Scan# 2629
Delta R.T. 0.006 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

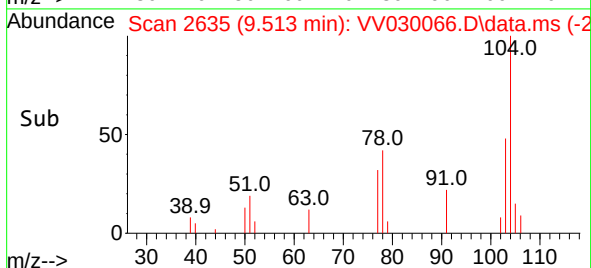
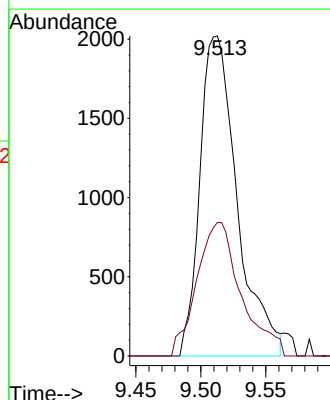
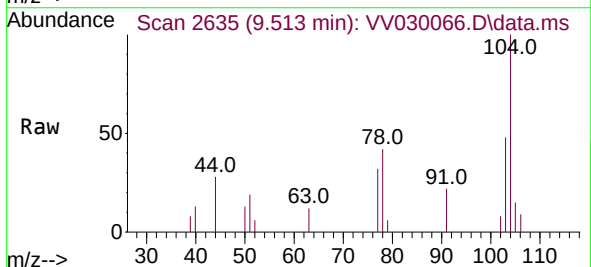
Instrument :
MSVOA_V
ClientSampleId :
VIBLK201

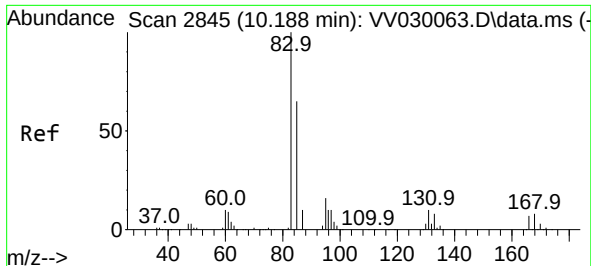
Tgt Ion:106 Resp: 1488
Ion Ratio Lower Upper
106 100
91 178.4 151.5 281.3



#55
Styrene
Concen: 1.435 ug/L
RT: 9.513 min Scan# 2635
Delta R.T. 0.010 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

Tgt Ion:104 Resp: 4033
Ion Ratio Lower Upper
104 100
78 41.7 31.9 59.2





#57

1,1,2,2-Tetrachloroethane

Concen: 1.238 ug/L

RT: 10.188 min Scan# 2845

Delta R.T. 0.000 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

Instrument :

MSVOA_V

ClientSampleId :

VIBLK201

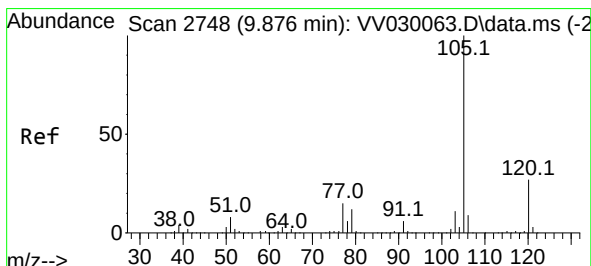
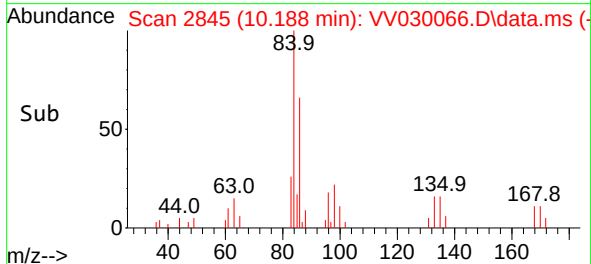
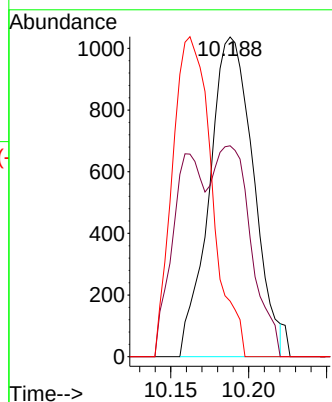
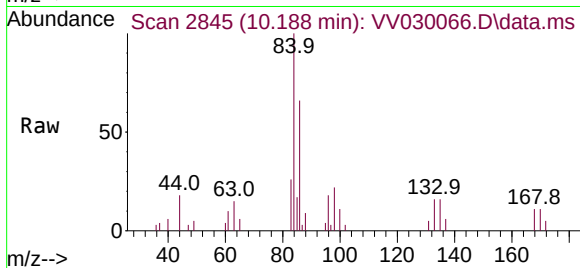
Tgt Ion: 83 Resp: 2041

Ion Ratio Lower Upper

83 100

85 66.0 45.5 84.5

131 17.4 8.3 12.5#



#60

Isopropylbenzene

Concen: 1.093 ug/L

RT: 9.876 min Scan# 2748

Delta R.T. 0.000 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

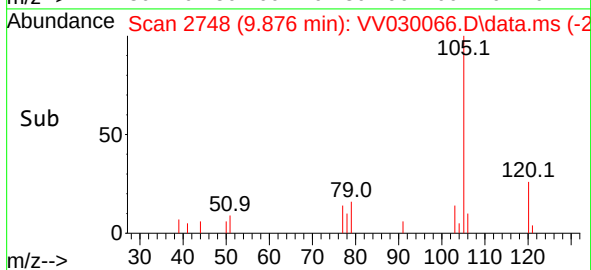
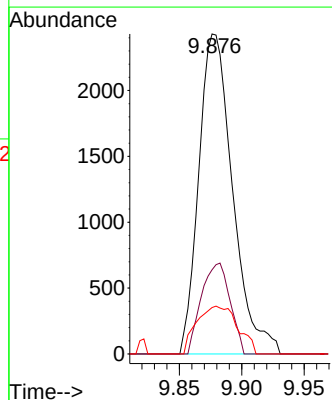
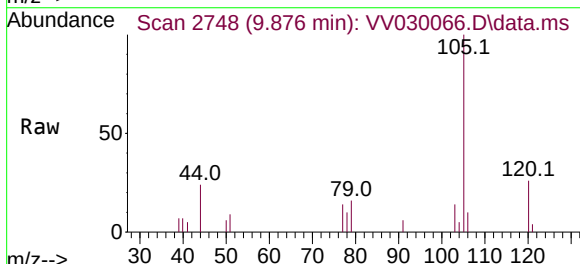
Tgt Ion: 105 Resp: 4584

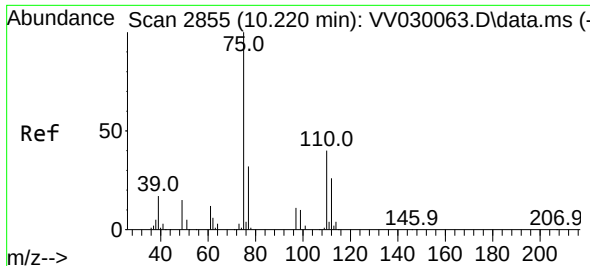
Ion Ratio Lower Upper

105 100

120 24.0 21.4 32.0

77 12.1 12.2 18.2#

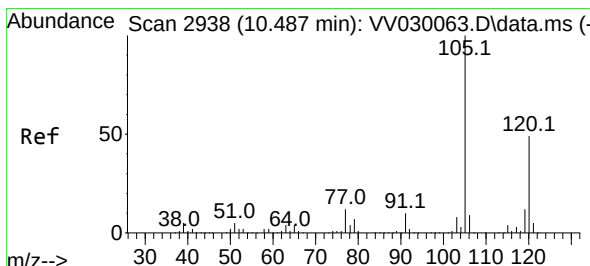
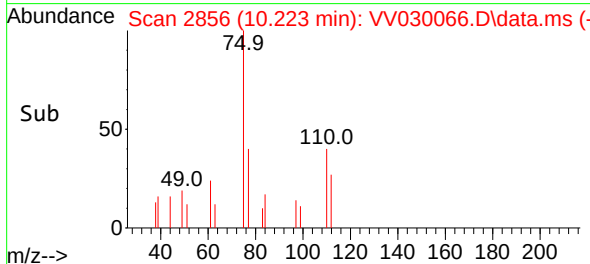
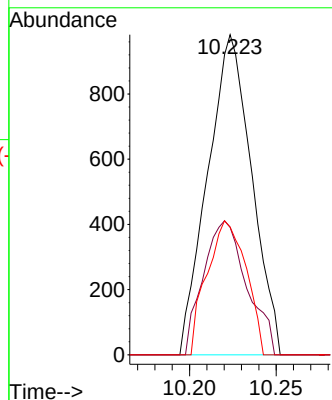
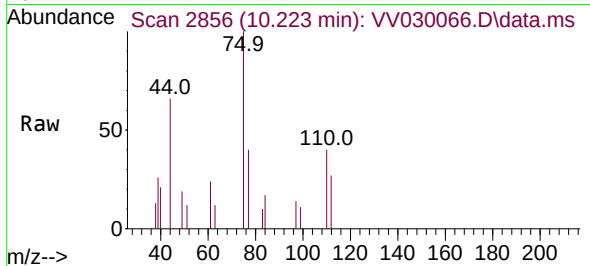




#61
1,2,3-Trichloropropane
Concen: 1.486 ug/L
RT: 10.223 min Scan# 2855
Delta R.T. 0.003 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

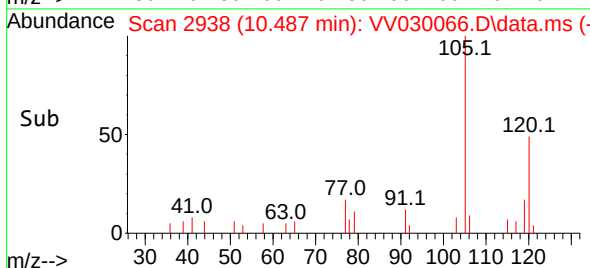
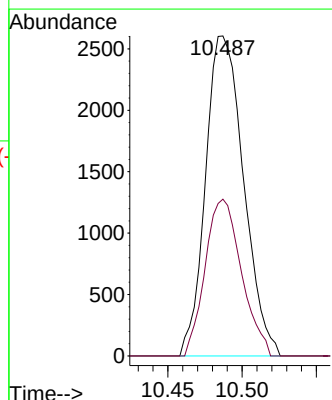
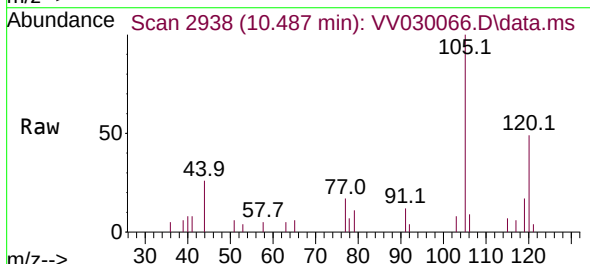
Instrument :
MSVOA_V
ClientSampleId :
VIBLK201

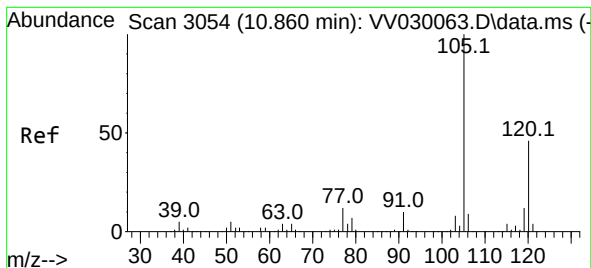
Tgt Ion: 75 Resp: 1733
Ion Ratio Lower Upper
75 100
77 41.4 25.9 38.9#
110 37.2 32.1 48.1



#62
1,3,5-Trimethylbenzene
Concen: 1.338 ug/L
RT: 10.487 min Scan# 2938
Delta R.T. -0.000 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

Tgt Ion: 105 Resp: 4647
Ion Ratio Lower Upper
105 100
120 46.7 39.0 58.4





#63

1,2,4-Trimethylbenzene

Concen: 1.586 ug/L

RT: 10.866 min Scan# 3054

Delta R.T. 0.006 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

Instrument :

MSVOA_V

ClientSampleId :

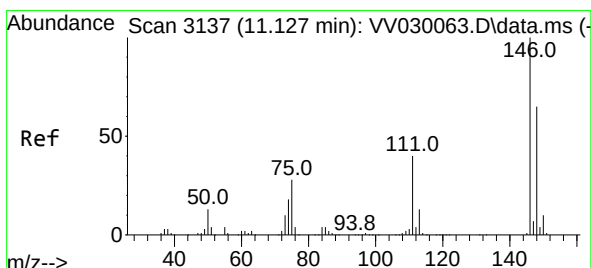
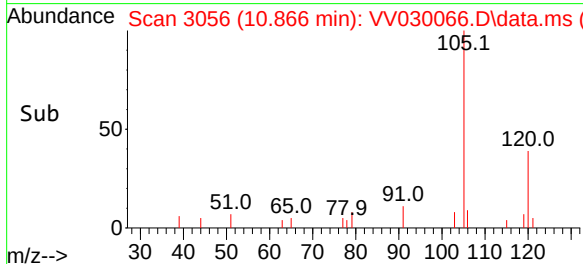
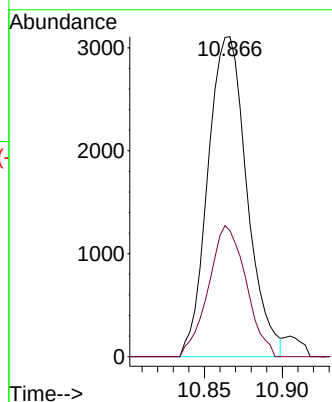
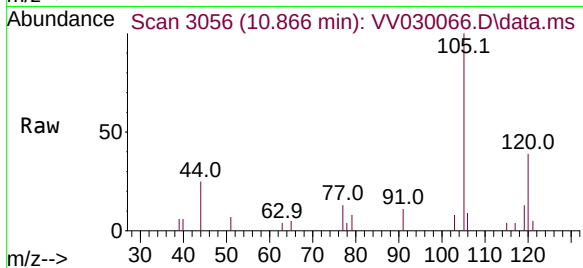
VIBLK201

Tgt Ion:105 Resp: 5412

Ion Ratio Lower Upper

105 100

120 39.5 36.3 54.5



#64

1,3-Dichlorobenzene

Concen: 3.210 ug/L

RT: 11.130 min Scan# 3138

Delta R.T. 0.003 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

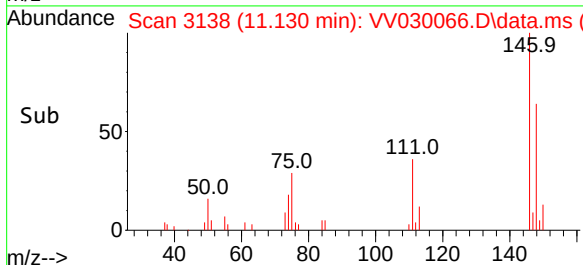
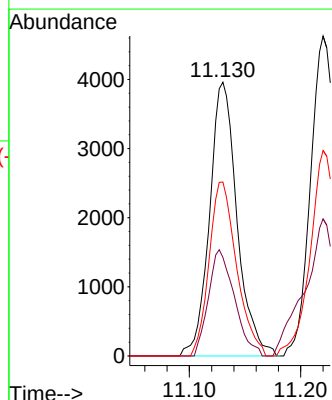
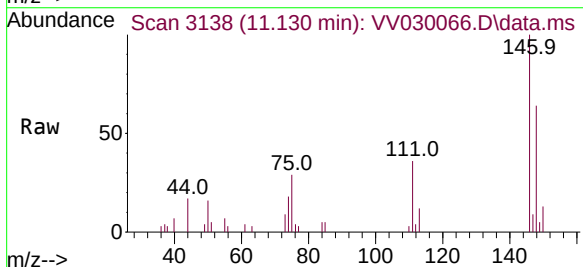
Tgt Ion:146 Resp: 6783

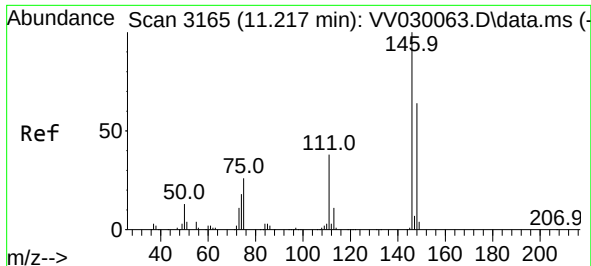
Ion Ratio Lower Upper

146 100

111 36.0 28.2 52.4

148 63.5 45.3 84.1

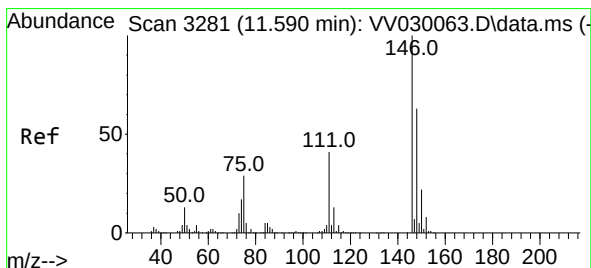
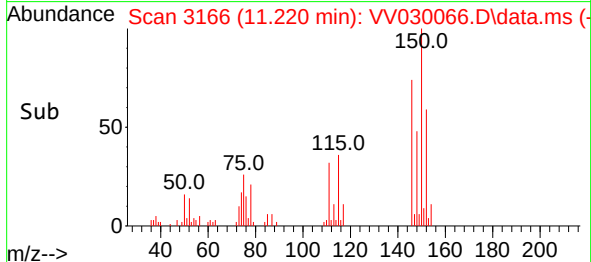
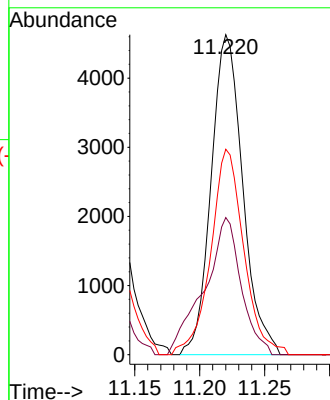
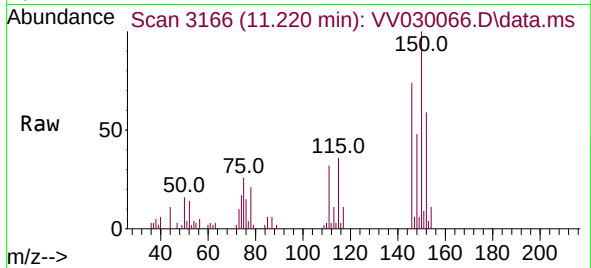




#65
1,4-Dichlorobenzene
Concen: 3.621 ug/L
RT: 11.220 min Scan# 3166
Delta R.T. 0.003 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

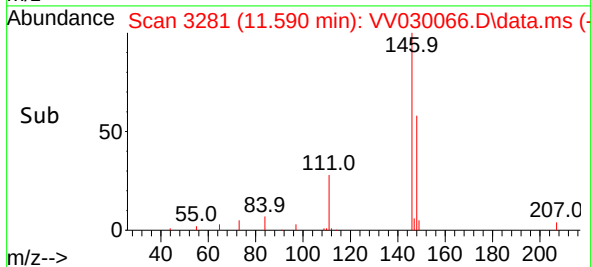
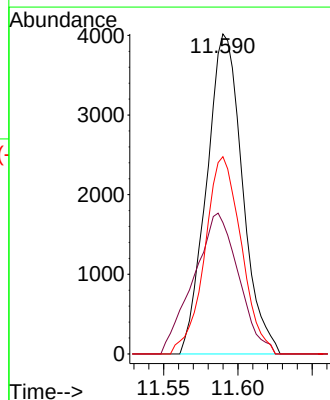
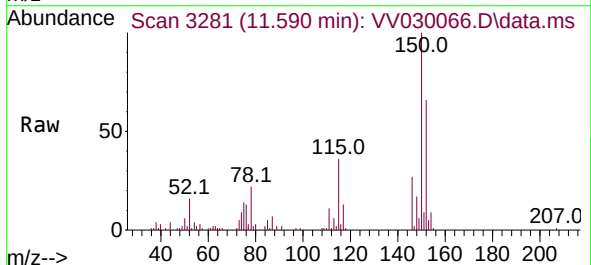
Instrument :
MSVOA_V
ClientSampleId :
VIBLK201

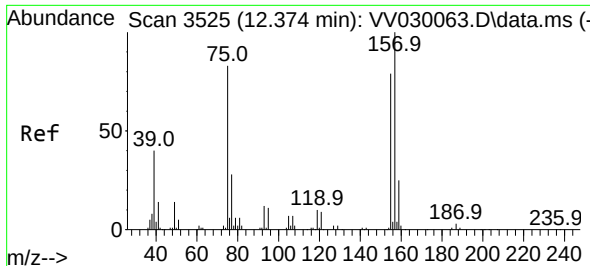
Tgt Ion:146 Resp: 7829
Ion Ratio Lower Upper
146 100
111 42.8 27.1 50.3
148 64.2 44.9 83.5



#67
1,2-Dichlorobenzene
Concen: 3.201 ug/L
RT: 11.590 min Scan# 3281
Delta R.T. -0.000 min
Lab File: VV030066.D
Acq: 17 Feb 2023 15:01

Tgt Ion:146 Resp: 6734
Ion Ratio Lower Upper
146 100
111 41.1 33.0 49.4
148 61.6 50.7 76.1





#68

1,2-Dibromo-3-chloropropane

Concen: 5.224 ug/L

RT: 12.378 min Scan# 3525

Delta R.T. 0.003 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

Instrument :

MSVOA_V

ClientSampleId :

VIBLK201

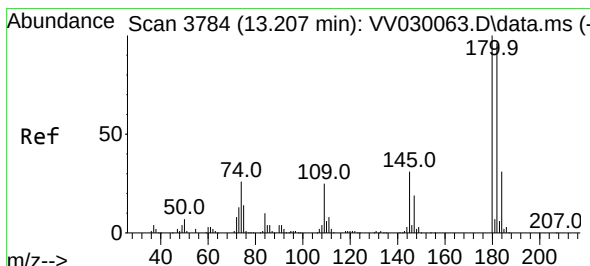
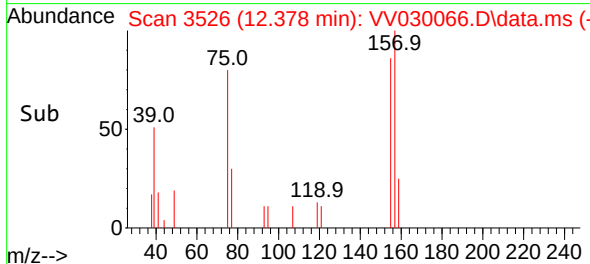
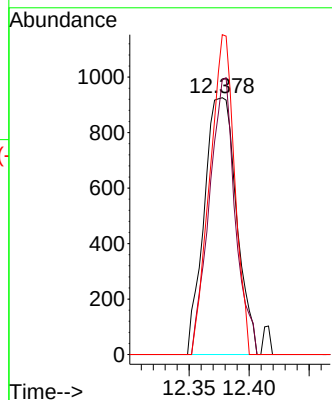
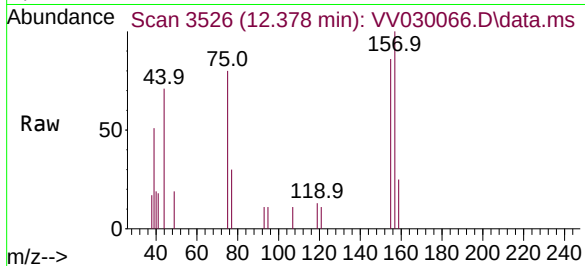
Tgt Ion: 75 Resp: 1778

Ion Ratio Lower Upper

75 100

155 107.0 76.2 114.2

157 124.5 96.0 144.0



#70

1,2,4-trichlorobenzene

Concen: 9.424 ug/L

RT: 13.210 min Scan# 3785

Delta R.T. 0.003 min

Lab File: VV030066.D

Acq: 17 Feb 2023 15:01

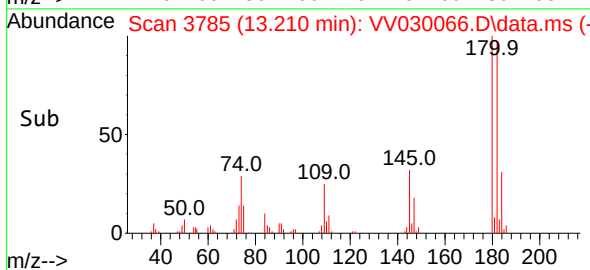
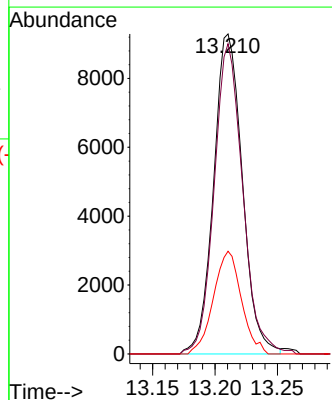
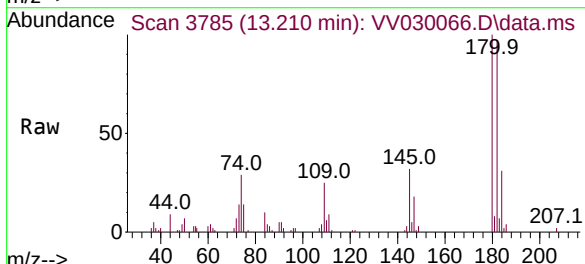
Tgt Ion:180 Resp: 14936

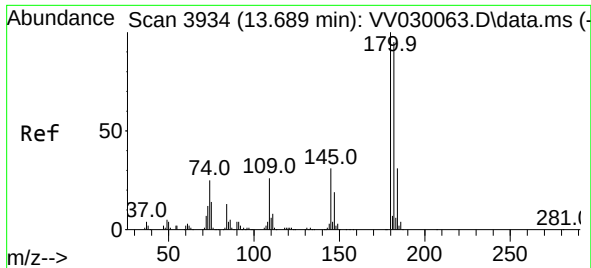
Ion Ratio Lower Upper

180 100

182 95.8 76.6 114.8

145 31.2 24.3 36.5





#72
 1,2,3-Trichlorobenzene
 Concen: 12.708 ug/L
 RT: 13.693 min Scan# 3935
 Delta R.T. 0.003 min
 Lab File: VV030066.D
 Acq: 17 Feb 2023 15:01

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK201

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.8
145	31.1	25.0	37.6

