

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121021\
 Data File : VW023923.D
 Acq On : 11 Dec 2021 06:12
 Operator : SY/MD
 Sample : M5005-08
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 11 23:58:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121021WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Dec 11 04:33:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	109777	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	114301	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.252	152	77239	5.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	23477	3.978	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.600%
7) Chloroethane-d5	1.571	69	22149	4.498	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.000%
11) 1,1-Dichloroethene-d2	2.111	63	32843	2.851	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	57.000%#
20) 2-Butanone-d5	3.896	46	69702	60.454	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.900%
24) Chloroform-d	4.349	84	58850	4.402	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.000%
26) 1,2-Dichloroethane-d4	5.037	65	29935	4.810	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.200%
32) Benzene-d6	5.053	84	99913	4.413	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.200%
36) 1,2-Dichloropropane-d6	6.069	67	32202	4.715	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.200%
41) Toluene-d8	7.317	98	82048	4.026	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.600%
43) trans-1,3-Dichloroprop...	7.625	79	11904	4.201	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.000%
46) 2-Hexanone-d5	8.088	63	60872	47.989	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.980%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	25116	4.433	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.600%
66) 1,2-Dichlorobenzene-d4	11.632	152	48437	4.695	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.800%
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	2.118	96	620	0.084	ug/L #	1
13) Acetone	2.188	43	31238	33.865	ug/L	91
15) Methyl Acetate	2.375	43	2959	1.323	ug/L #	50
18) trans-1,2-Dichloroethene	2.767	96	793	0.097	ug/L	98
19) 1,1-Dichloroethane	3.198	63	1827	0.125	ug/L	92
21) 2-Butanone	4.082	43	32337	24.535	ug/L #	54
22) cis-1,2-Dichloroethene	3.915	96	10287	1.192	ug/L	94
34) Trichloroethene	5.915	95	68851	7.549	ug/L	95
35) Methylcyclohexane	6.072	83	8696	0.648	ug/L #	18
37) 1,2-Dichloropropane	6.076	63	4152	0.540	ug/L #	84
39) cis-1,3-Dichloropropene	6.989	75	976	0.086	ug/L	99
40) 4-Methyl-2-pentanone	7.243	43	3368	0.912	ug/L #	86
47) Tetrachloroethene	7.976	164	34456	4.291	ug/L	95
48) 2-Hexanone	8.088	43	7335	2.740	ug/L #	69
49) Dibromochloromethane	7.976	129	30286	3.915	ug/L #	11
51) Chlorobenzene	8.879	112	727202	29.898	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.497	83	3112	0.500	ug/L #	26
61) 1,2,3-Trichloropropane	11.181	75	912074	173.339	ug/L #	47
64) 1,3-Dichlorobenzene	11.185	146	3185559	137.348	ug/L	98

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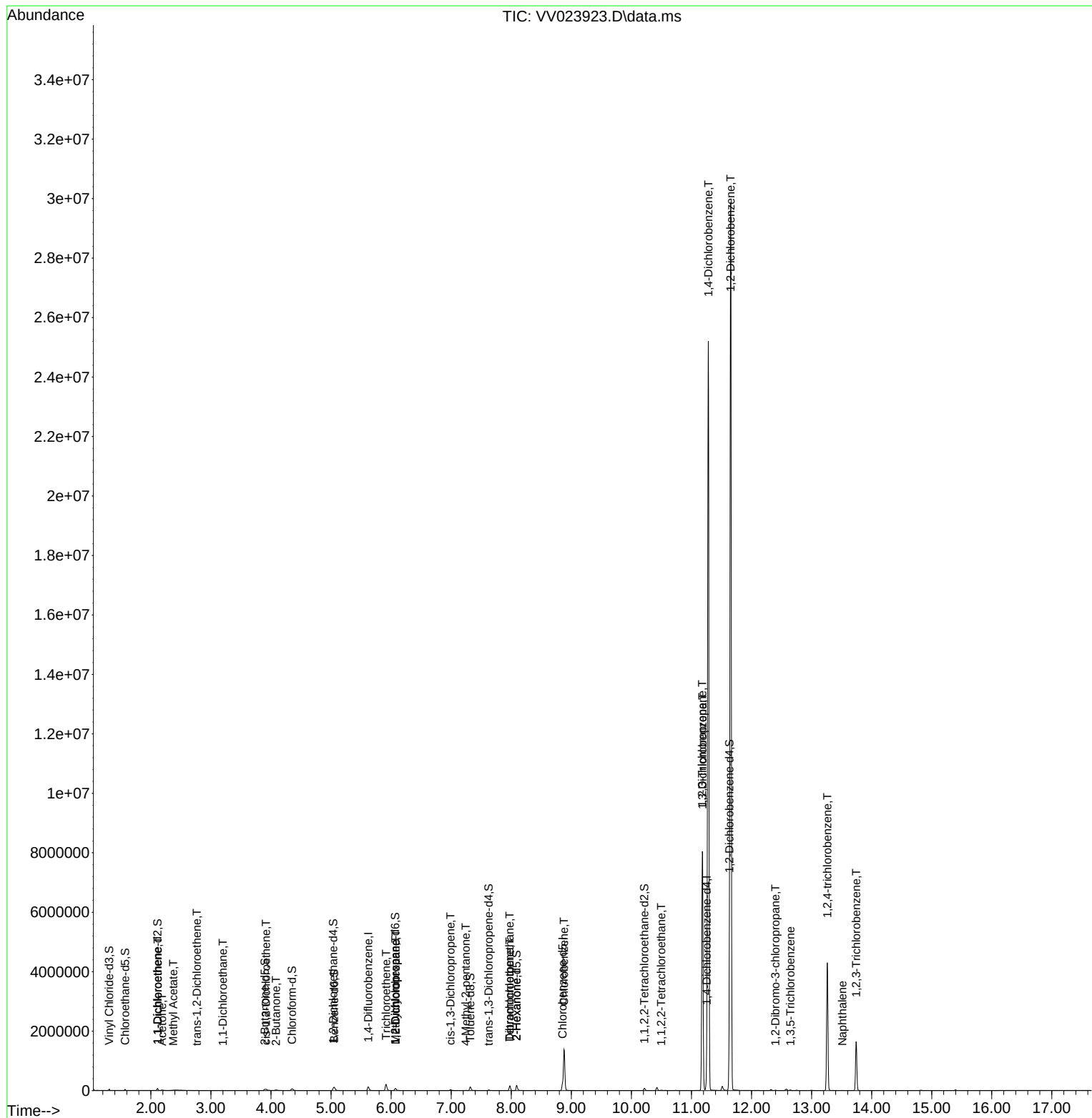
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.281	146	9639640	413.814	ug/L	93
67) 1,2-Dichlorobenzene	11.654	146	11234402	528.706	ug/L	91
68) 1,2-Dibromo-3-chloropr...	12.397	75	2323	2.021	ug/L #	1
69) 1,3,5-Trichlorobenzene	12.648	180	5902	0.309	ug/L	94
70) 1,2,4-trichlorobenzene	13.262	180	1281867	85.557	ug/L	97
71) Naphthalene	13.513	128	1576	0.073	ug/L #	86
72) 1,2,3-Trichlorobenzene	13.744	180	487928	36.888	ug/L	99

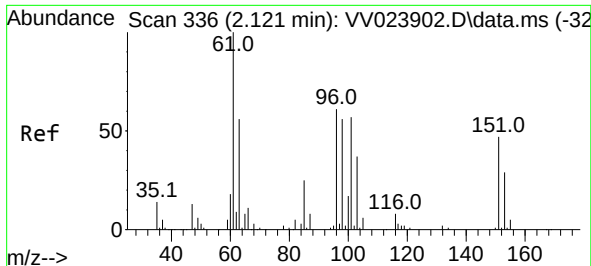
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.084 ug/L

RT: 2.118 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

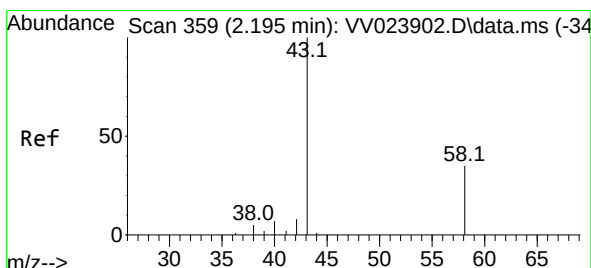
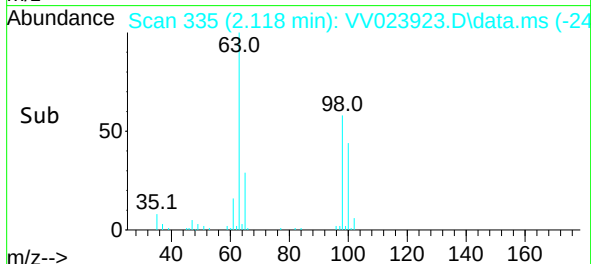
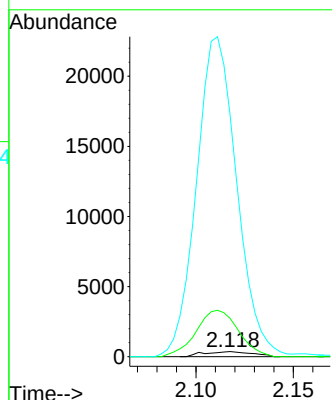
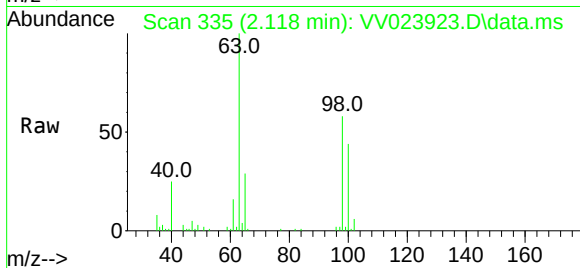
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 96 Resp: 620

Ion	Ratio	Lower	Upper
96	100		
61	751.2	116.1	215.5#
63	4744.9	79.4	147.4#



#13

Acetone

Concen: 33.865 ug/L

RT: 2.188 min Scan# 357

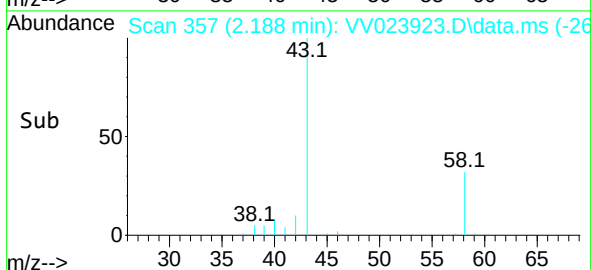
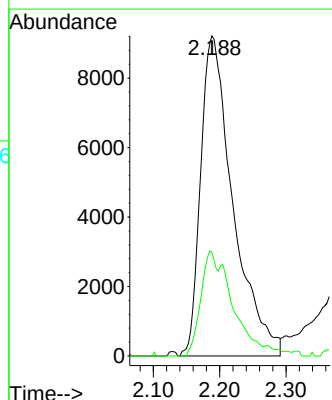
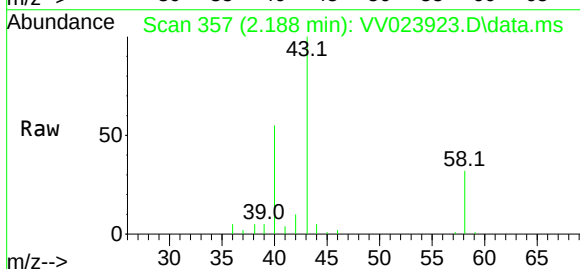
Delta R.T. -0.003 min

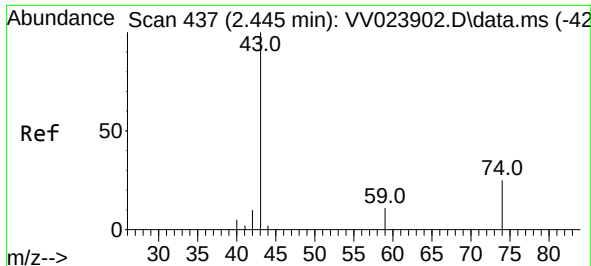
Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

Tgt Ion: 43 Resp: 31238

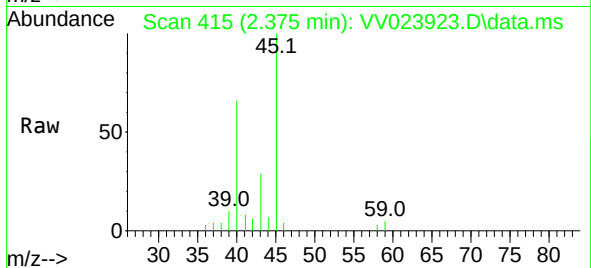
Ion	Ratio	Lower	Upper
43	100		
58	16.7	0.0	41.4



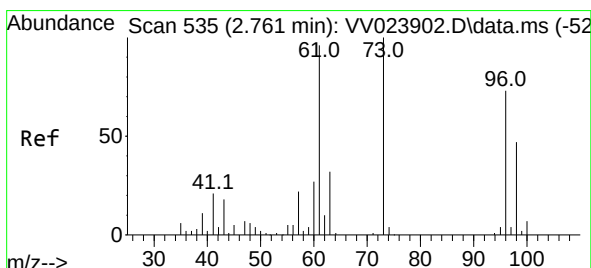
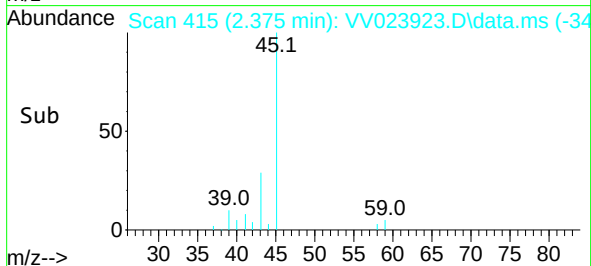
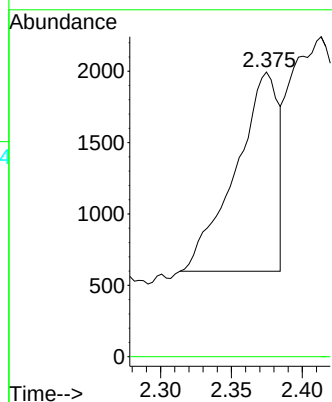


#15
Methyl Acetate
Concen: 1.323 ug/L
RT: 2.375 min Scan# 41
Delta R.T. -0.061 min
Lab File: VV023923.D
Acq: 11 Dec 2021 06:12

Instrument :
MSVOA_V
ClientSampleId :

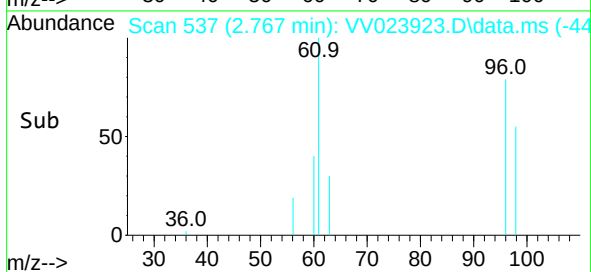
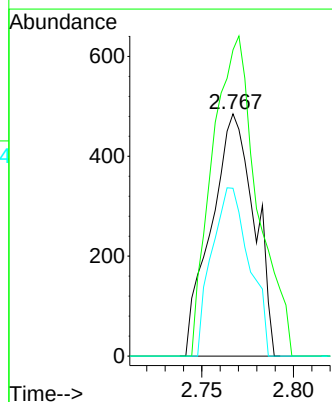
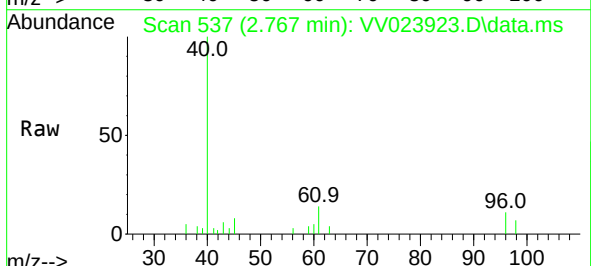


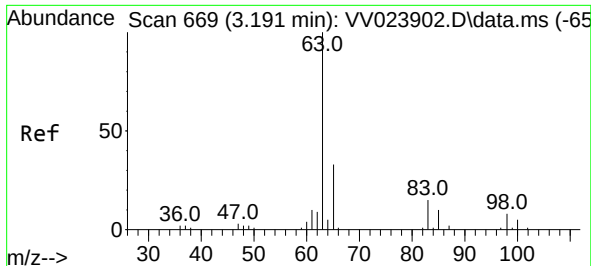
Tgt Ion: 43 Resp: 2959
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#18
trans-1,2-Dichloroethene
Concen: 0.097 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.007 min
Lab File: VV023923.D
Acq: 11 Dec 2021 06:12

Tgt Ion: 96 Resp: 793
Ion Ratio Lower Upper
96 100
61 126.4 88.2 163.8
98 69.3 44.9 83.5





#19

1,1-Dichloroethane

Concen: 0.125 ug/L

RT: 3.198 min Scan# 61

Delta R.T. 0.010 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

Instrument :

MSVOA_V

ClientSampleId :

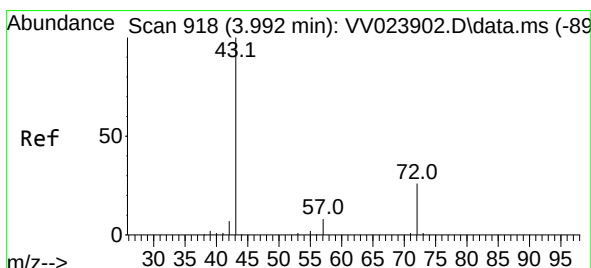
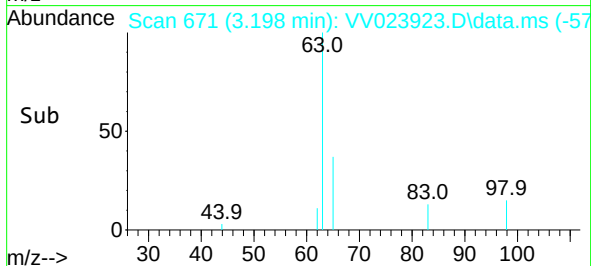
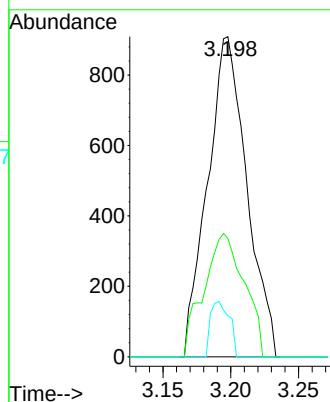
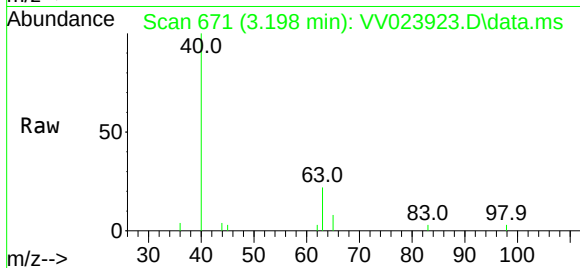
Tgt Ion: 63 Resp: 1827

Ion Ratio Lower Upper

63 100

65 37.0 22.3 41.3

83 12.8 10.7 19.9



#21

2-Butanone

Concen: 24.535 ug/L

RT: 4.082 min Scan# 946

Delta R.T. 0.093 min

Lab File: VV023923.D

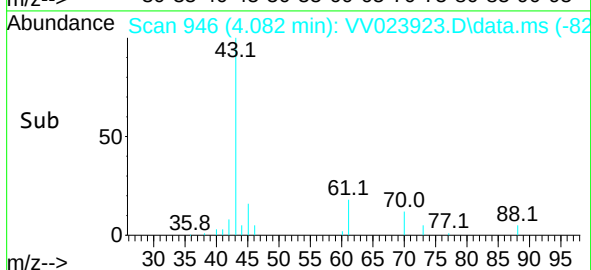
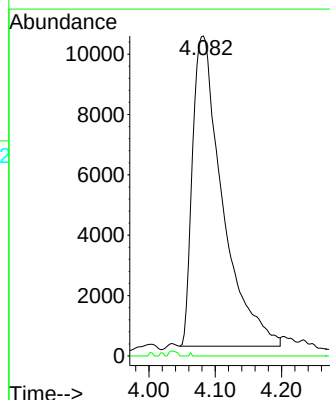
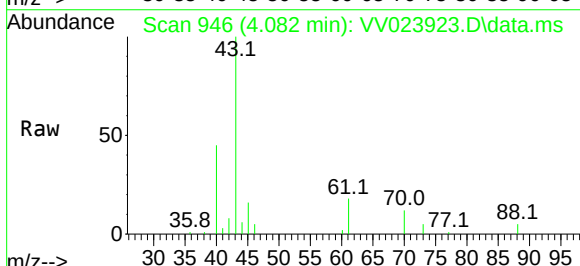
Acq: 11 Dec 2021 06:12

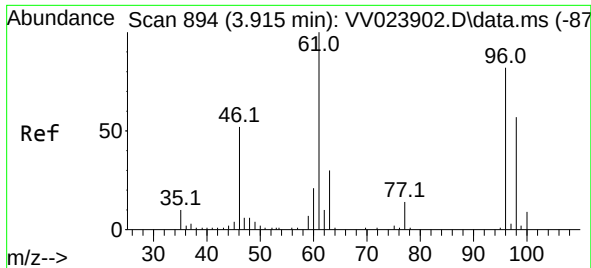
Tgt Ion: 43 Resp: 32337

Ion Ratio Lower Upper

43 100

72 0.1 11.1 33.1#

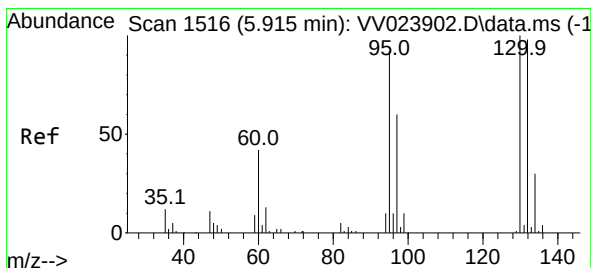
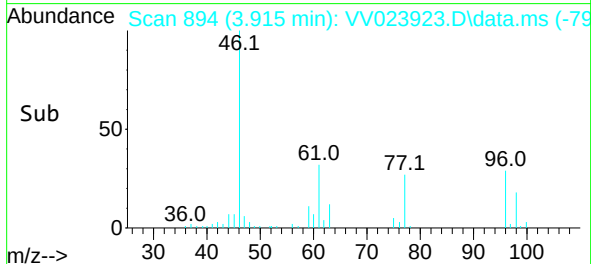
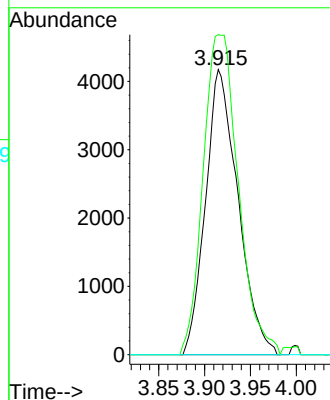
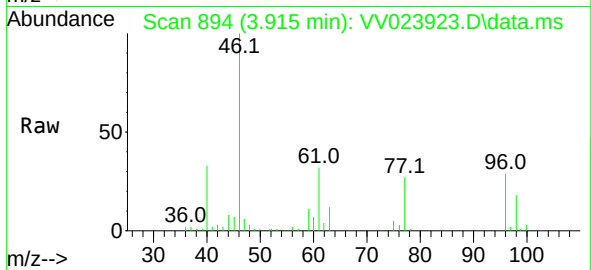




#22
 cis-1,2-Dichloroethene
 Concen: 1.192 ug/L
 RT: 3.915 min Scan# 894
 Delta R.T. 0.007 min
 Lab File: VV023923.D
 Acq: 11 Dec 2021 06:12

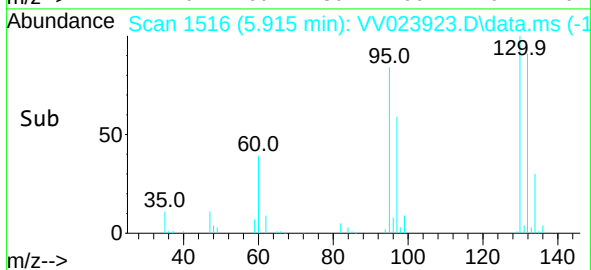
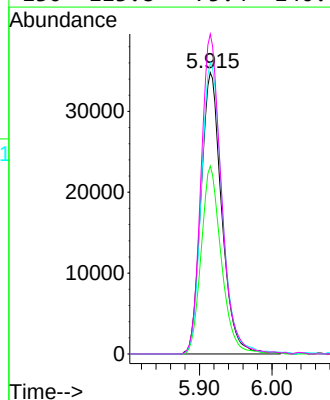
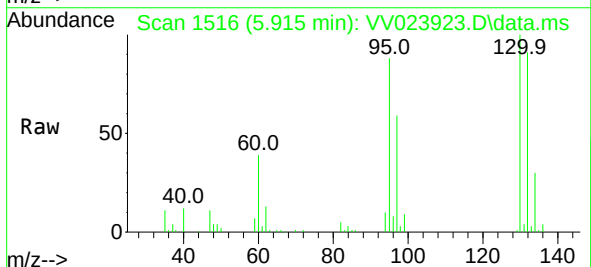
Instrument :
 MSVOA_V
 ClientSampleId :

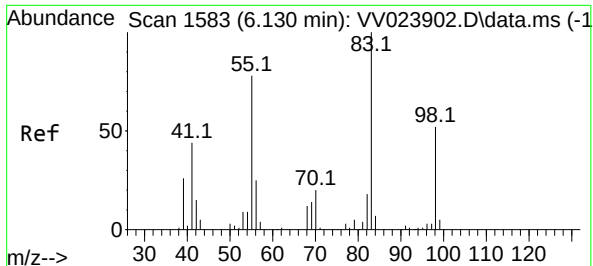
Tgt Ion: 96 Resp: 10287
 Ion Ratio Lower Upper
 96 100
 61 112.2 83.4 154.8
 68 0.0 0.0 0.0



#34
 Trichloroethene
 Concen: 7.549 ug/L
 RT: 5.915 min Scan# 1516
 Delta R.T. 0.003 min
 Lab File: VV023923.D
 Acq: 11 Dec 2021 06:12

Tgt Ion: 95 Resp: 68851
 Ion Ratio Lower Upper
 95 100
 97 66.8 45.2 84.0
 132 103.4 76.1 141.3
 130 113.8 75.4 140.0





#35

Methylcyclohexane

Concen: 0.648 ug/L

RT: 6.072 min Scan# 1565

Delta R.T. -0.058 min

Lab File: VV023923.D

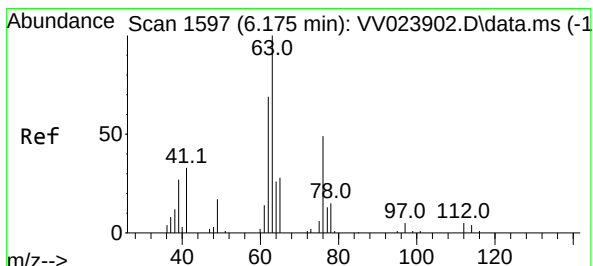
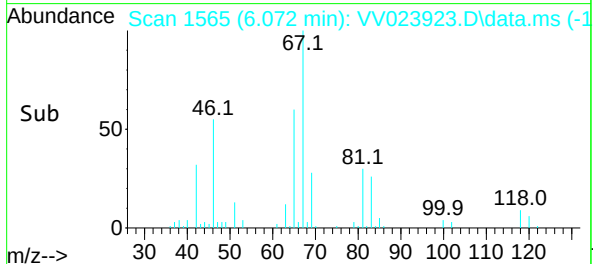
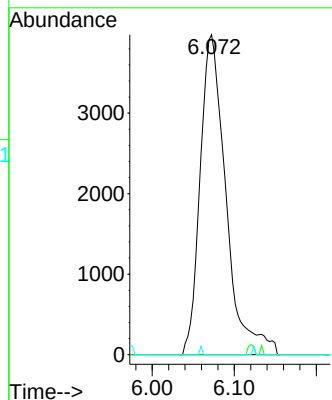
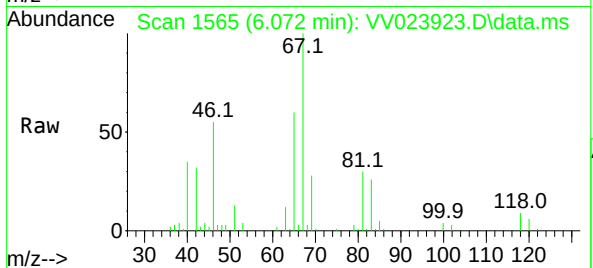
Acq: 11 Dec 2021 06:12

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 83	Resp: 8696
Ion Ratio	Lower Upper
83 100	
55 0.7	60.2 90.2#
98 0.0	41.0 61.4#



#37

1,2-Dichloropropane

Concen: 0.540 ug/L

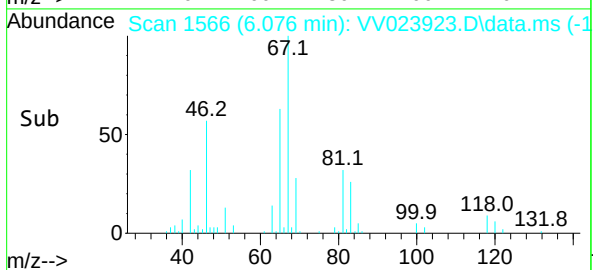
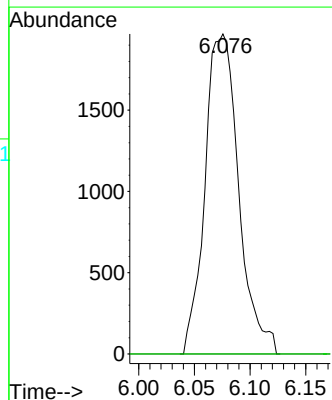
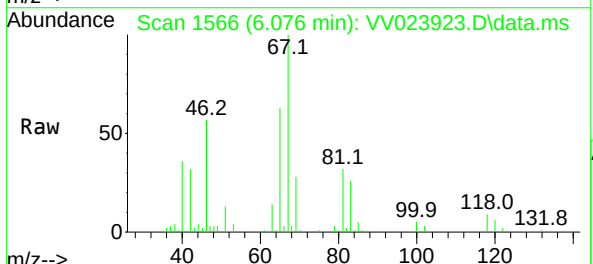
RT: 6.076 min Scan# 1566

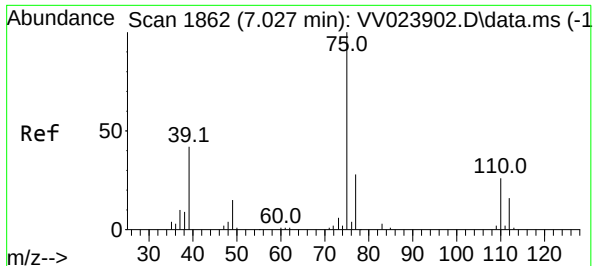
Delta R.T. -0.093 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

Tgt Ion: 63	Resp: 4152
Ion Ratio	Lower Upper
63 100	
112 0.0	4.3 6.5#





#39

cis-1,3-Dichloropropene

Concen: 0.086 ug/L

RT: 6.989 min Scan# 1862

Delta R.T. -0.038 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

Instrument :

MSVOA_V

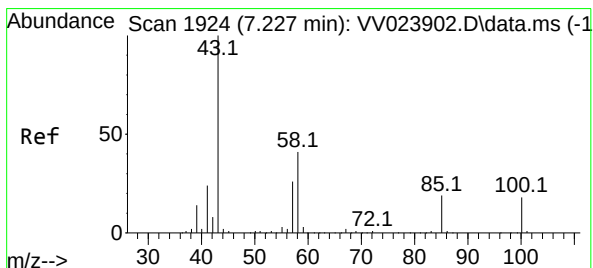
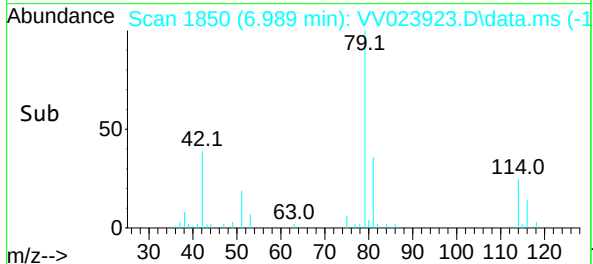
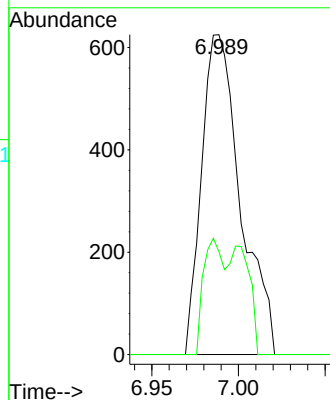
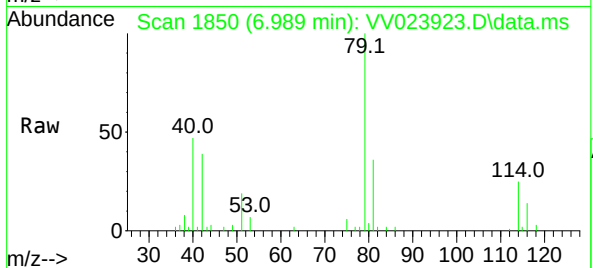
ClientSampleId :

Tgt Ion: 75 Resp: 976

Ion Ratio Lower Upper

75 100

77 32.2 22.0 41.0



#40

4-Methyl-2-pentanone

Concen: 0.912 ug/L

RT: 7.243 min Scan# 1929

Delta R.T. 0.016 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

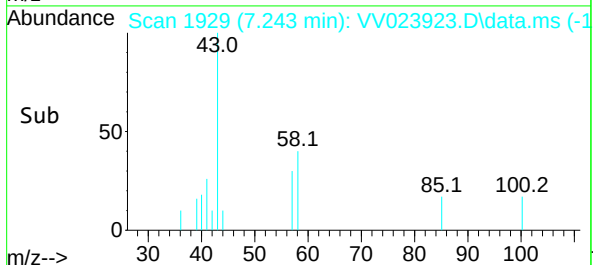
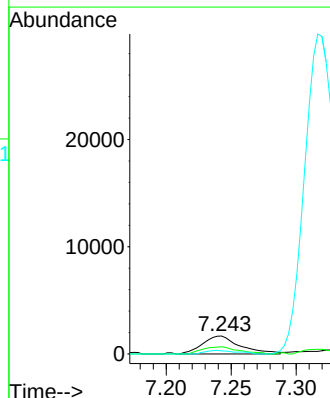
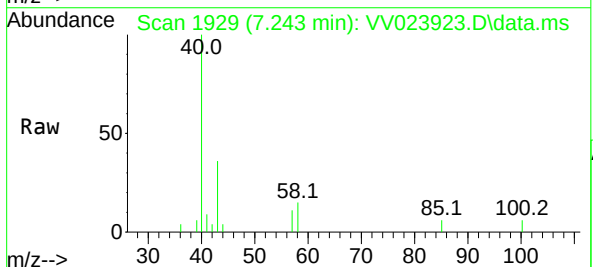
Tgt Ion: 43 Resp: 3368

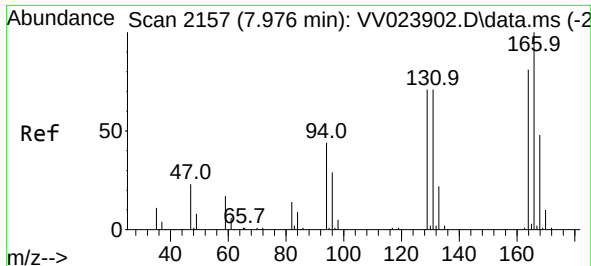
Ion Ratio Lower Upper

43 100

58 38.2 32.3 48.5

100 0.0 13.0 19.6#





#47

Tetrachloroethene

Concen: 4.291 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. 0.000 min

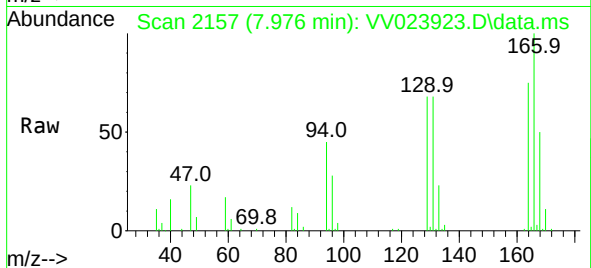
Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 34456

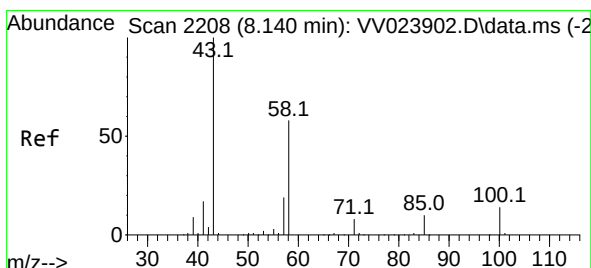
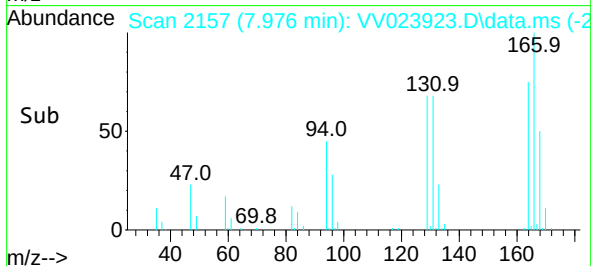
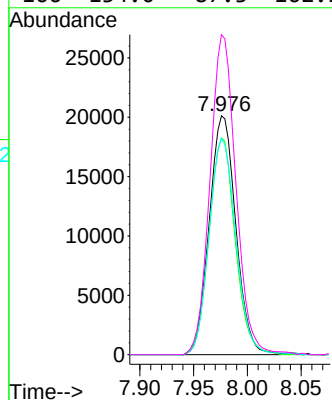
Ion Ratio Lower Upper

164 100

129 90.8 62.6 116.2

131 90.6 61.0 113.4

166 134.0 87.3 162.1



#48

2-Hexanone

Concen: 2.740 ug/L

RT: 8.088 min Scan# 2192

Delta R.T. -0.051 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

Tgt Ion: 43 Resp: 7335

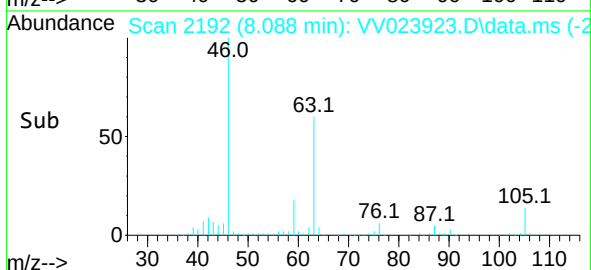
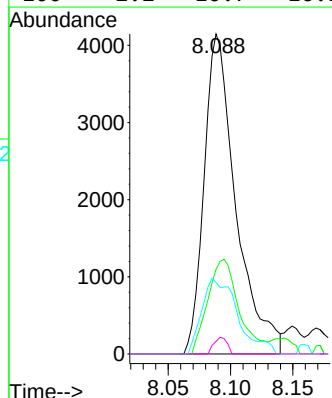
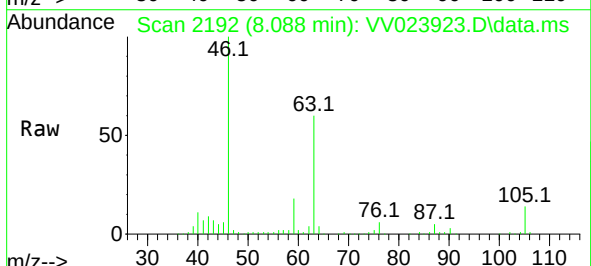
Ion Ratio Lower Upper

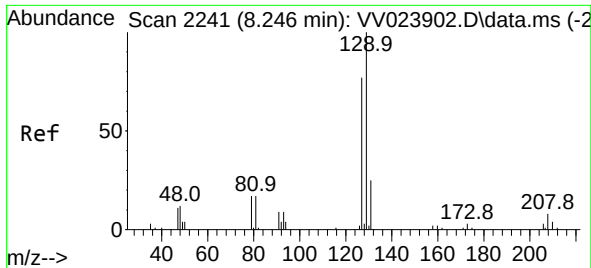
43 100

58 29.4 44.5 66.7#

57 26.8 15.1 22.7#

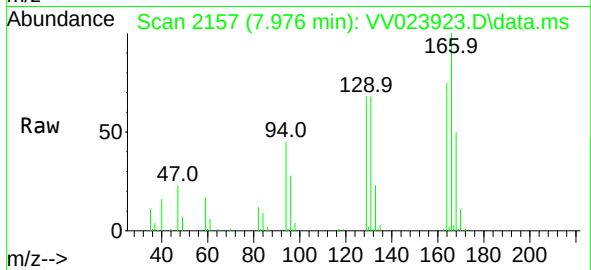
100 2.2 10.7 16.1#



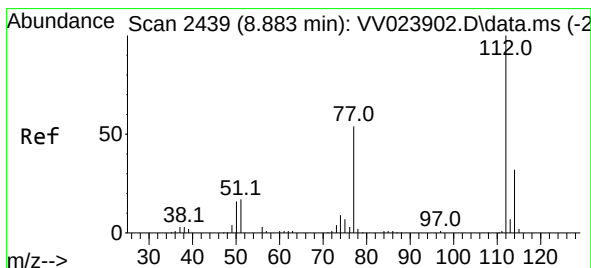
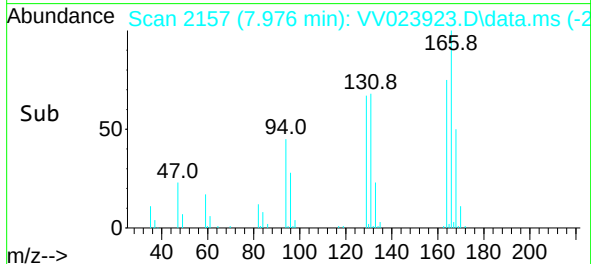
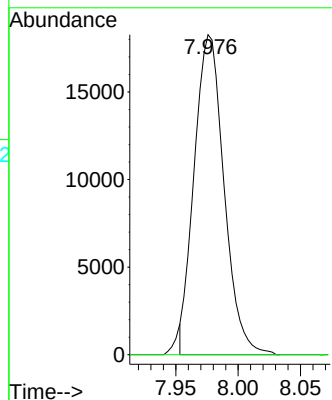


#49
Dibromochloromethane
Concen: 3.915 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.270 min
Lab File: VV023923.D
Acq: 11 Dec 2021 06:12

Instrument :
MSVOA_V
ClientSampleId :

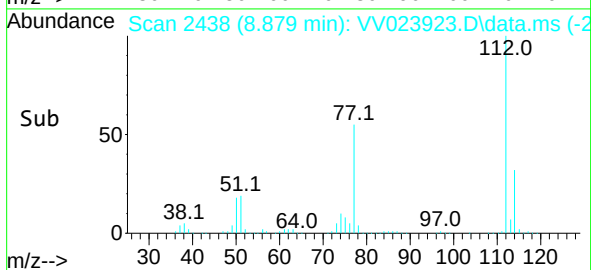
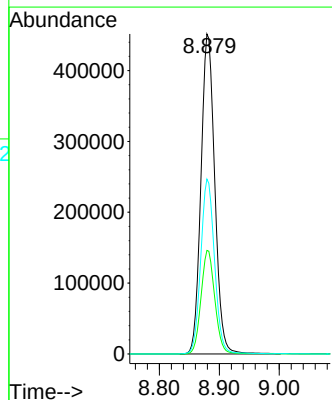
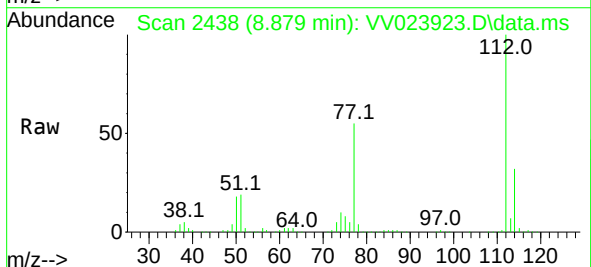


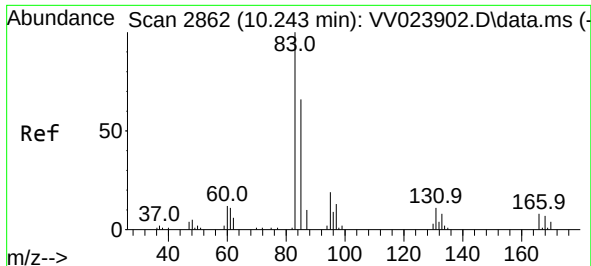
Tgt Ion:129 Resp: 30286
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.3#



#51
Chlorobenzene
Concen: 29.898 ug/L
RT: 8.879 min Scan# 2438
Delta R.T. 0.000 min
Lab File: VV023923.D
Acq: 11 Dec 2021 06:12

Tgt Ion:112 Resp: 727202
Ion Ratio Lower Upper
112 100
114 32.4 23.3 43.3
77 54.7 43.3 64.9





#57

1,1,2,2-Tetrachloroethane

Concen: 0.500 ug/L

RT: 10.497 min Scan# 21

Delta R.T. 0.257 min

Lab File: VV023923.D

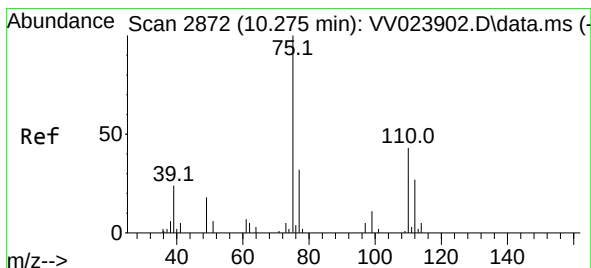
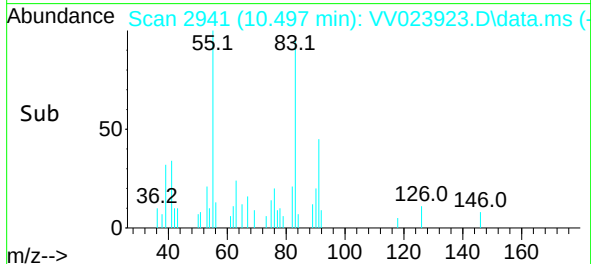
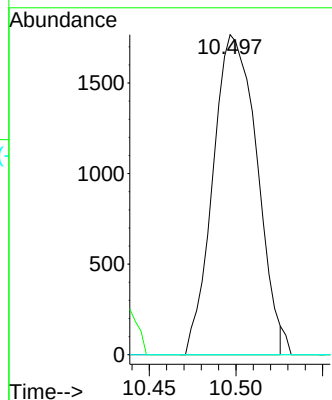
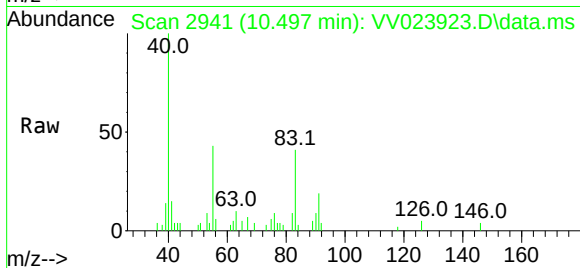
Acq: 11 Dec 2021 06:12

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 83	Resp: 3112
Ion Ratio	Lower Upper
83	100
85	0.0 44.6 82.8#
131	0.0 8.3 12.5#



#61

1,2,3-Trichloropropane

Concen: 173.339 ug/L

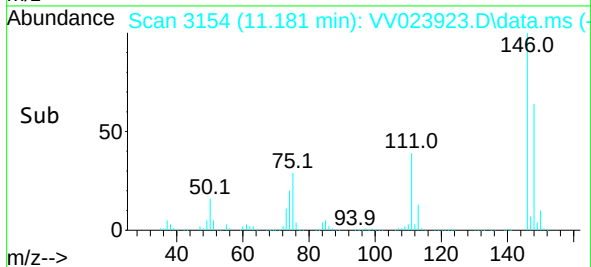
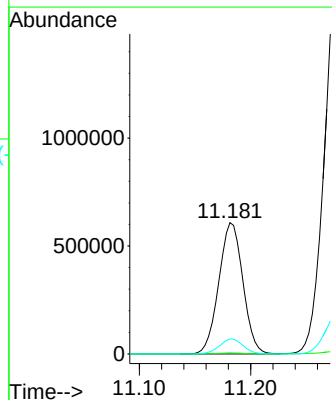
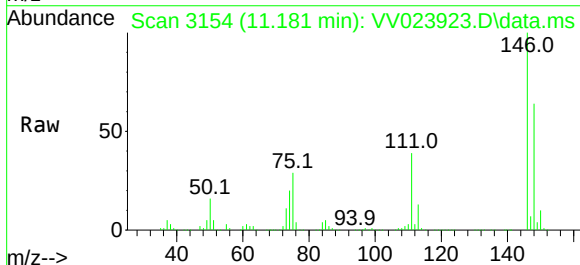
RT: 11.181 min Scan# 3154

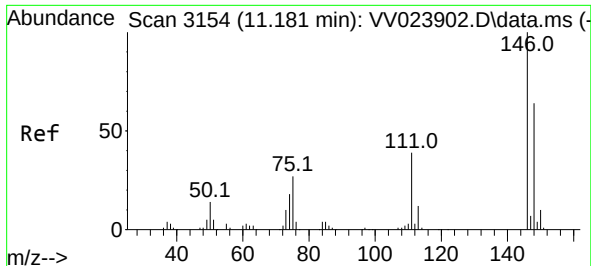
Delta R.T. 0.910 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

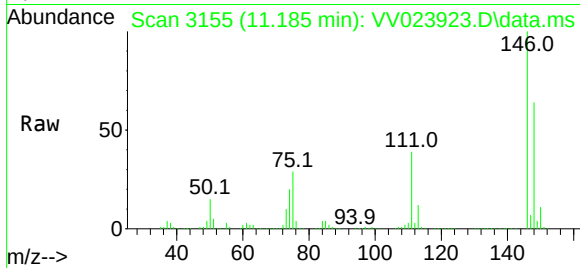
Tgt Ion: 75	Resp: 912074
Ion Ratio	Lower Upper
75	100
77	0.0 26.4 39.6#
110	11.3 34.2 51.2#



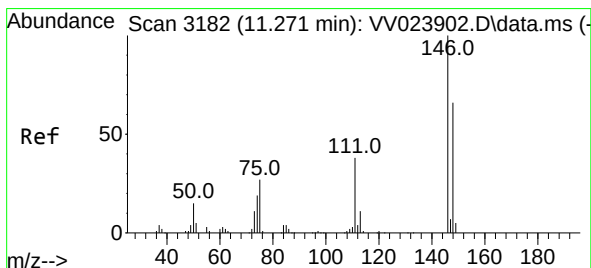
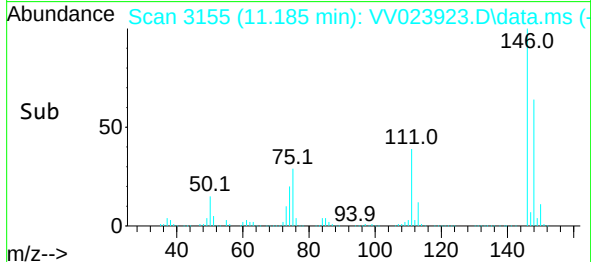
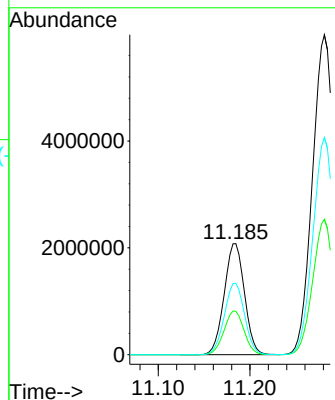


#64
1,3-Dichlorobenzene
Concen: 137.348 ug/L
RT: 11.185 min Scan# 3155
Delta R.T. 0.007 min
Lab File: VV023923.D
Acq: 11 Dec 2021 06:12

Instrument :
MSVOA_V
ClientSampleId :

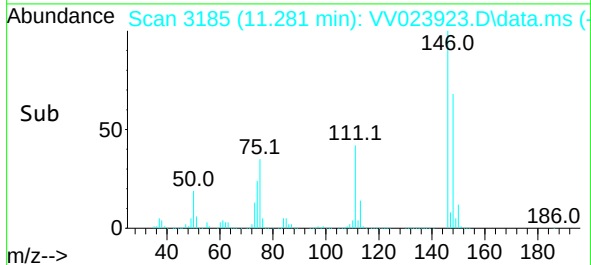
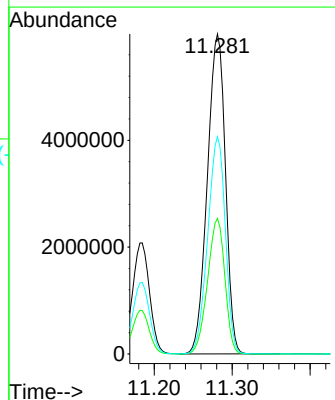
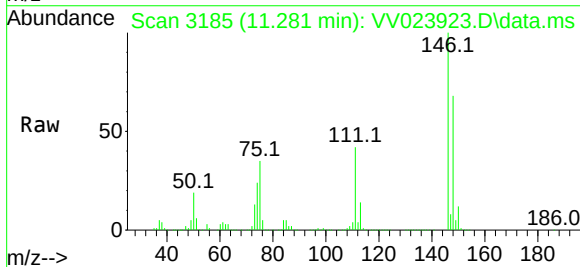


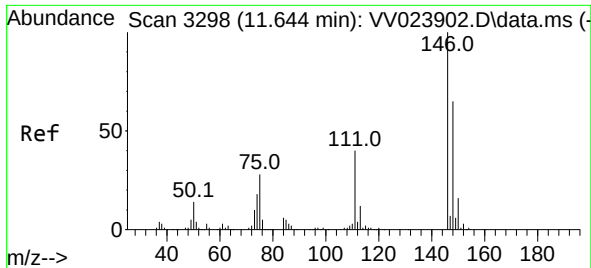
Tgt Ion:146 Resp: 3185559
Ion Ratio Lower Upper
146 100
111 39.1 26.3 48.9
148 64.3 44.4 82.5



#65
1,4-Dichlorobenzene
Concen: 413.814 ug/L
RT: 11.281 min Scan# 3185
Delta R.T. 0.010 min
Lab File: VV023923.D
Acq: 11 Dec 2021 06:12

Tgt Ion:146 Resp: 9639640
Ion Ratio Lower Upper
146 100
111 42.3 25.6 47.6
148 67.9 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 528.706 ug/L

RT: 11.654 min Scan# 31

Delta R.T. 0.013 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

Instrument :

MSVOA_V

ClientSampleId :

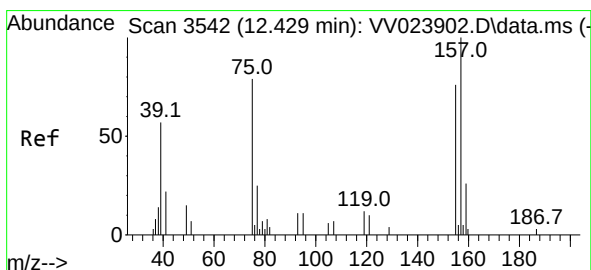
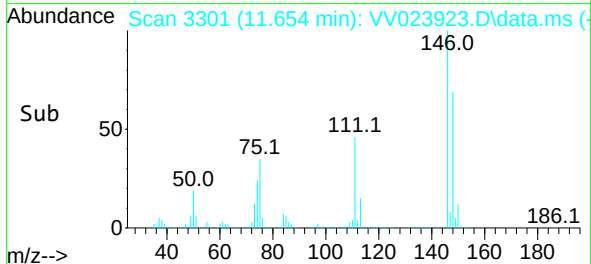
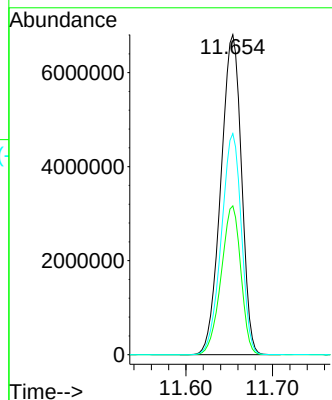
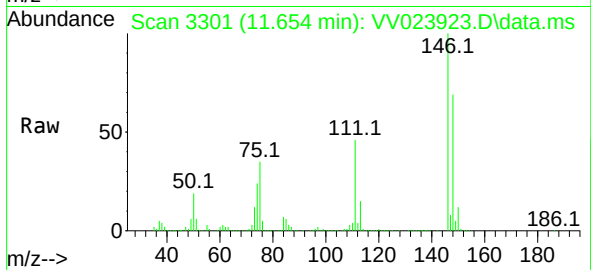
Tgt Ion:146 Resp:11234402

Ion Ratio Lower Upper

146 100

111 46.5 31.9 47.9

148 69.1 50.5 75.7



#68

1,2-Dibromo-3-chloropropane

Concen: 2.021 ug/L

RT: 12.397 min Scan# 3532

Delta R.T. -0.035 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

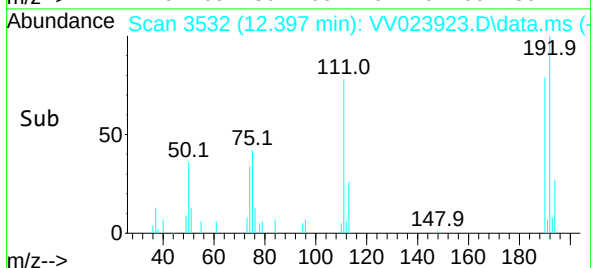
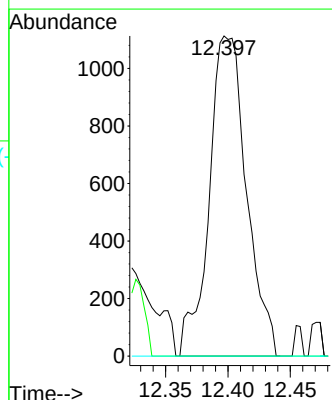
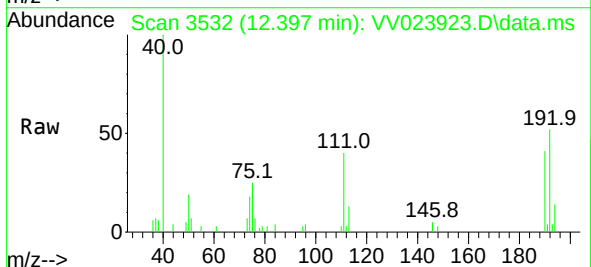
Tgt Ion: 75 Resp: 2323

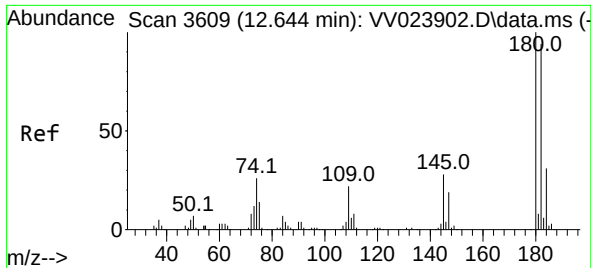
Ion Ratio Lower Upper

75 100

155 0.0 71.7 107.5#

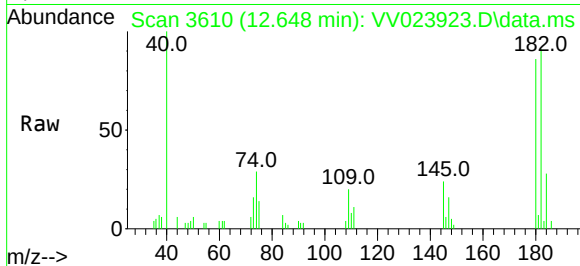
157 0.0 103.3 154.9#



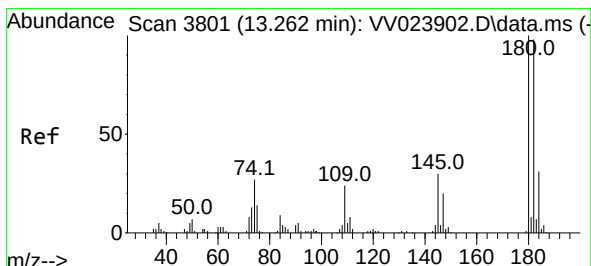
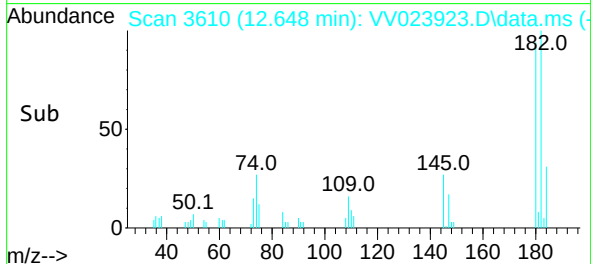
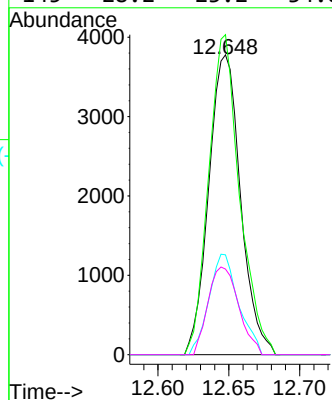


#69
 1,3,5-Trichlorobenzene
 Concen: 0.309 ug/L
 RT: 12.648 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VV023923.D
 Acq: 11 Dec 2021 06:12

Instrument :
 MSVOA_V
 ClientSampleId :

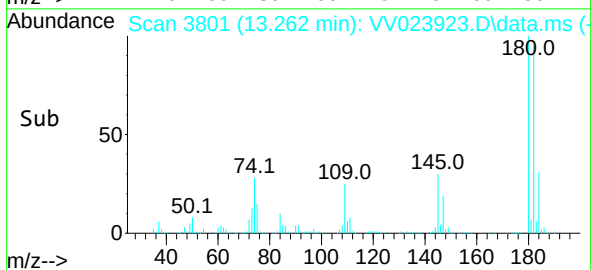
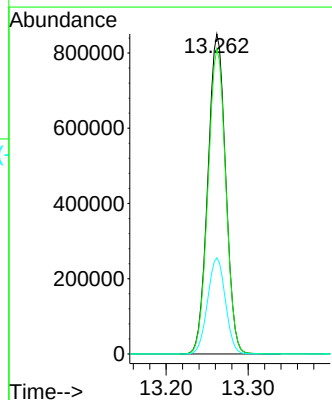
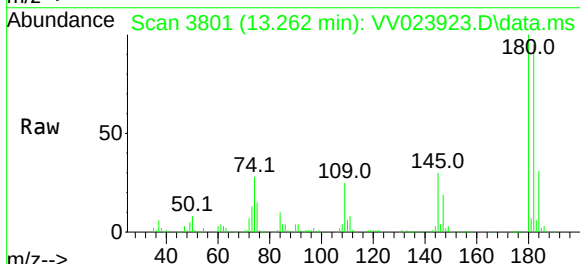


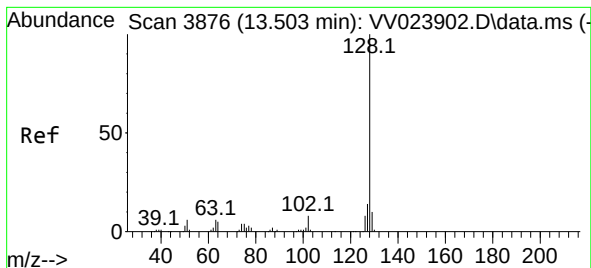
Tgt Ion:180 Resp: 5902
 Ion Ratio Lower Upper
 180 100
 182 103.6 76.4 114.6
 184 31.2 24.2 36.4
 145 28.2 23.2 34.8



#70
 1,2,4-trichlorobenzene
 Concen: 85.557 ug/L
 RT: 13.262 min Scan# 3801
 Delta R.T. 0.000 min
 Lab File: VV023923.D
 Acq: 11 Dec 2021 06:12

Tgt Ion:180 Resp: 1281867
 Ion Ratio Lower Upper
 180 100
 182 95.7 74.4 111.6
 145 30.1 23.3 34.9





#71

Naphthalene

Concen: 0.073 ug/L

RT: 13.513 min Scan# 3876

Delta R.T. 0.010 min

Lab File: VV023923.D

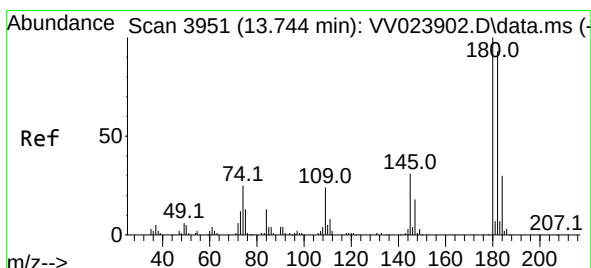
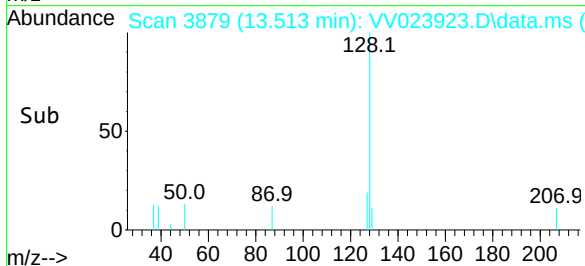
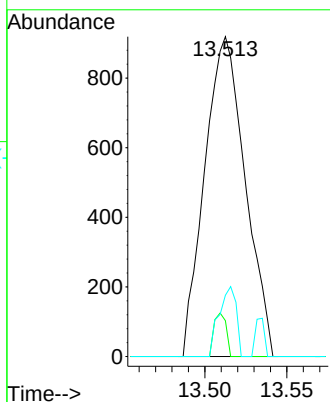
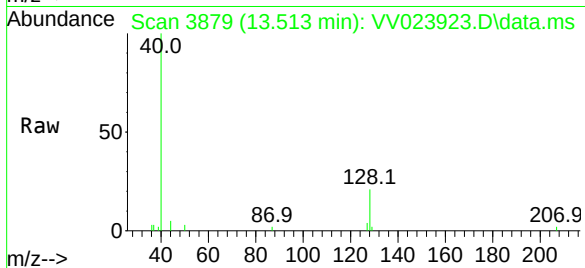
Acq: 11 Dec 2021 06:12

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:128	Resp:	1576
Ion Ratio	Lower	Upper
128	100	
129	4.1	9.0 13.4#
127	9.3	10.2 15.4#



#72

1,2,3-Trichlorobenzene

Concen: 36.888 ug/L

RT: 13.744 min Scan# 3951

Delta R.T. 0.000 min

Lab File: VV023923.D

Acq: 11 Dec 2021 06:12

Tgt Ion:180	Resp:	487928
Ion Ratio	Lower	Upper
180	100	
182	95.3	76.8 115.2
145	31.7	25.8 38.6

