

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102321\
 Data File : VW023019.D
 Acq On : 23 Oct 2021 18:59
 Operator : SY/MD
 Sample : M4277-13
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 25 01:09:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102221WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Oct 25 01:03:32 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	110910	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	112303	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	44200	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	44308	4.572	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.400%
7) Chloroethane-d5	1.568	69	32151	5.363	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.200%
11) 1,1-Dichloroethene-d2	2.108	63	51639	3.693	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.800%
20) 2-Butanone-d5	3.886	46	105235	67.690	ug/L	-0.06
Spiked Amount	50.000	Range	40 - 130	Recovery	=	135.380%#
24) Chloroform-d	4.349	84	88538	5.620	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.400%
26) 1,2-Dichloroethane-d4	5.034	65	42487	5.721	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.400%
32) Benzene-d6	5.050	84	172584	5.264	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.200%
36) 1,2-Dichloropropane-d6	6.072	67	55280	5.477	ug/L	-0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.600%
41) Toluene-d8	7.317	98	128918	4.377	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.600%
43) trans-1,3-Dichloroprop...	7.625	79	15707	4.442	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.800%
46) 2-Hexanone-d5	8.091	63	70604	53.926	ug/L	-0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.860%
56) 1,1,2,2-Tetrachloroeth...	10.220	84	39174	5.621	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	112.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	48236	6.116	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	122.400%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	446	0.059	ug/L	98
5) Vinyl chloride	1.310	62	958	0.122	ug/L #	9
12) 1,1-Dichloroethene	2.117	96	868	0.153	ug/L #	1
13) Acetone	2.175	43	112681	147.730	ug/L	90
14) Carbon disulfide	2.288	76	787	0.051	ug/L #	75
15) Methyl Acetate	2.343	43	7869	2.712	ug/L #	47
17) Methyl tert-butyl Ether	2.770	73	2006	0.148	ug/L #	89
18) trans-1,2-Dichloroethene	2.767	96	2026	0.334	ug/L	89
19) 1,1-Dichloroethane	3.195	63	883	0.079	ug/L #	87
22) cis-1,2-Dichloroethene	3.912	96	383812	55.841	ug/L #	91
34) Trichloroethene	5.918	95	29928	3.942	ug/L	97
35) Methylcyclohexane	6.072	83	13129	1.208	ug/L #	18
37) 1,2-Dichloropropane	6.072	63	6342	0.833	ug/L #	84
39) cis-1,3-Dichloropropene	6.992	75	1190	0.125	ug/L #	60
42) Toluene	7.397	91	6652	0.217	ug/L	99
45) 1,1,2-Trichloroethane	7.976	97	669	0.126	ug/L #	1
47) Tetrachloroethene	7.976	164	81727	12.742	ug/L	99
48) 2-Hexanone	8.153	43	4925	1.850	ug/L #	76
49) Dibromochloromethane	7.976	129	65623	10.350	ug/L #	10

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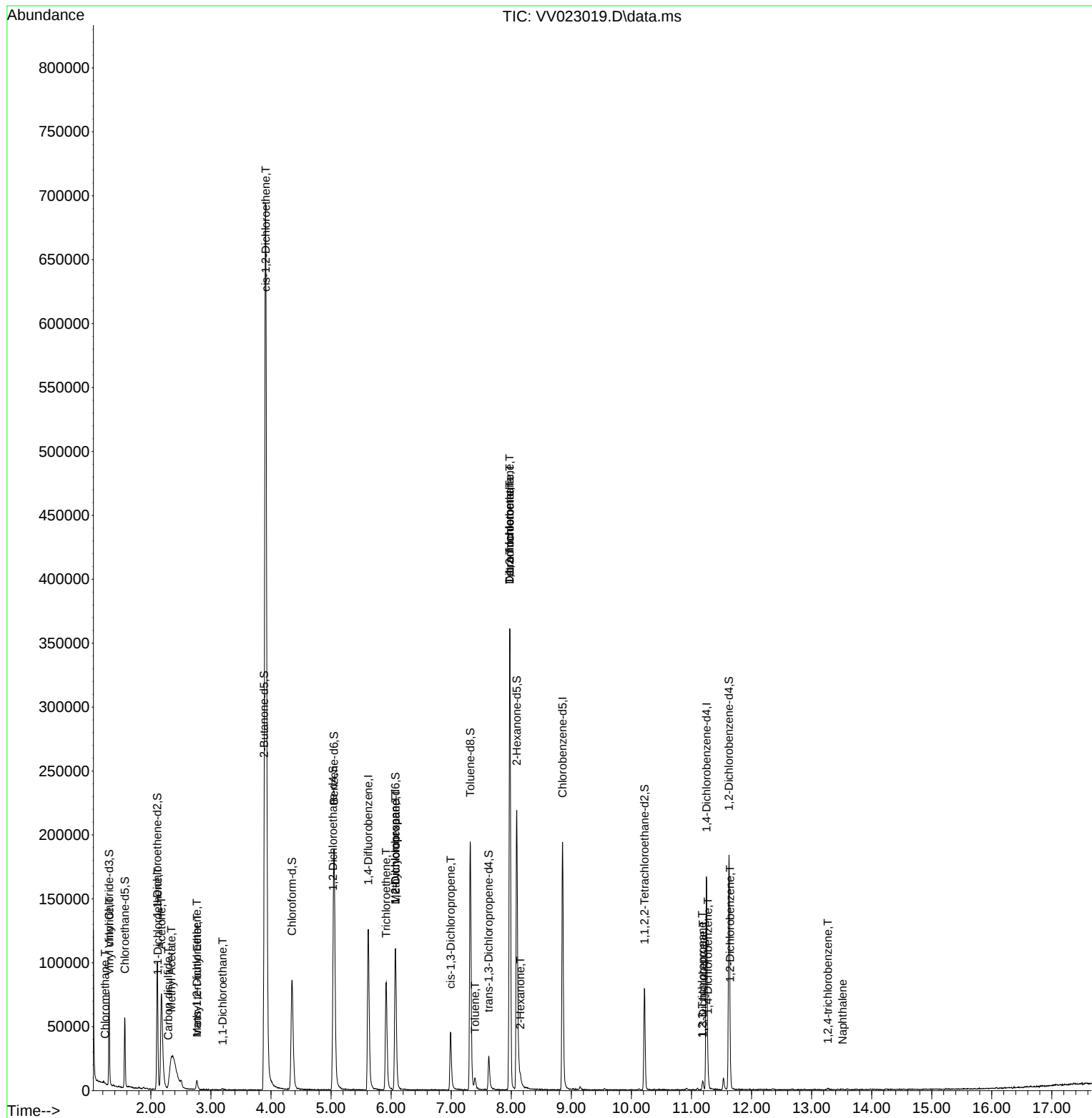
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.181	75	821	0.264	ug/L #	55
64) 1,3-Dichlorobenzene	11.191	146	3198	0.272	ug/L	92
65) 1,4-Dichlorobenzene	11.275	146	3624	0.303	ug/L	96
67) 1,2-Dichlorobenzene	11.644	146	3420	0.312	ug/L	95
70) 1,2,4-trichlorobenzene	13.271	180	482	0.072	ug/L	89
71) Naphthalene	13.519	128	571	0.056	ug/L #	77

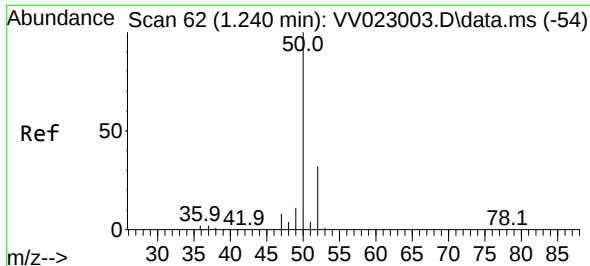
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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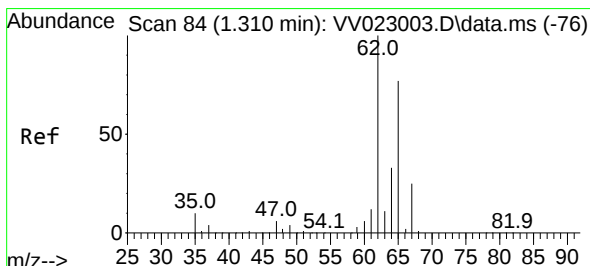
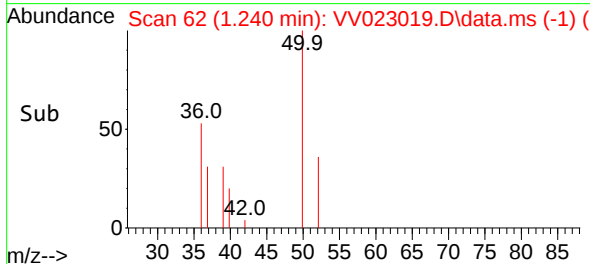
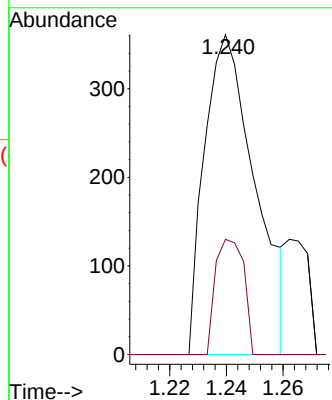
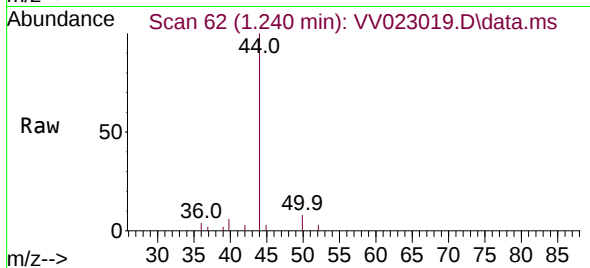




#3
Chloromethane
Concen: 0.059 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.000 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

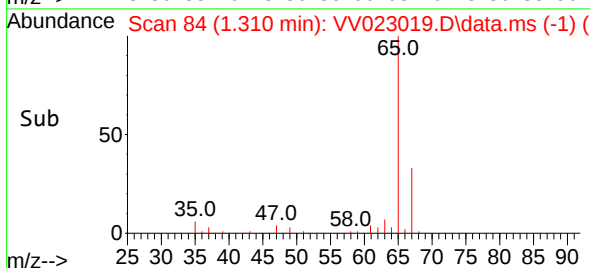
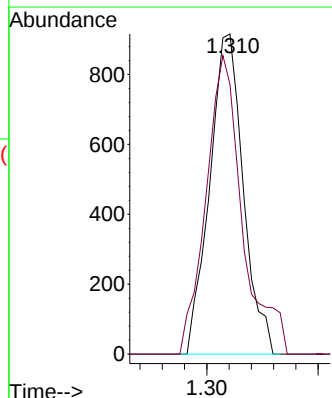
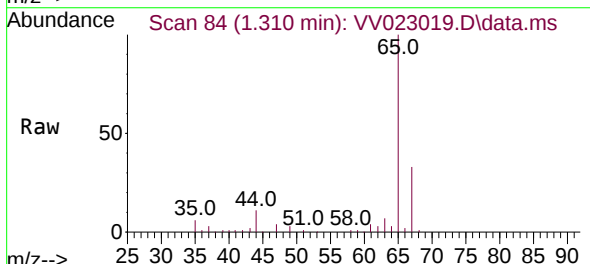
Instrument :
MSVOA_V
ClientSampleId :

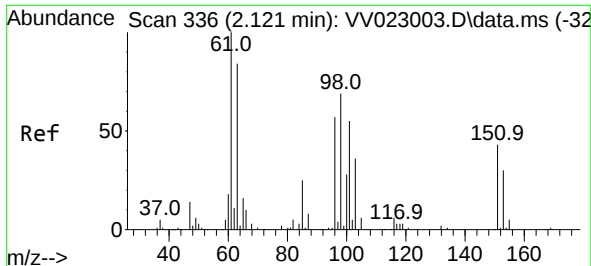
Tgt Ion: 50 Resp: 446
Ion Ratio Lower Upper
50 100
52 36.0 24.3 45.1



#5
Vinyl chloride
Concen: 0.122 ug/L
RT: 1.310 min Scan# 84
Delta R.T. 0.000 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

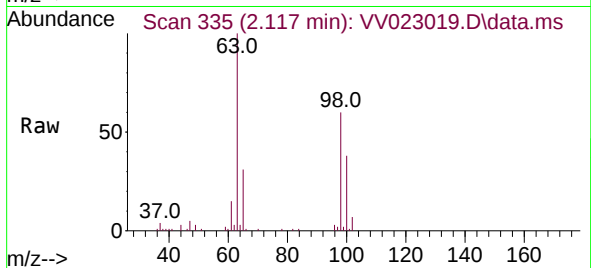
Tgt Ion: 62 Resp: 958
Ion Ratio Lower Upper
62 100
64 84.3 23.1 42.9#



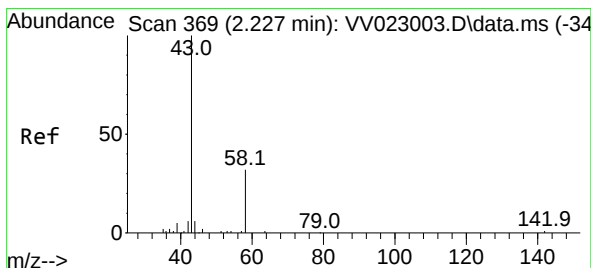
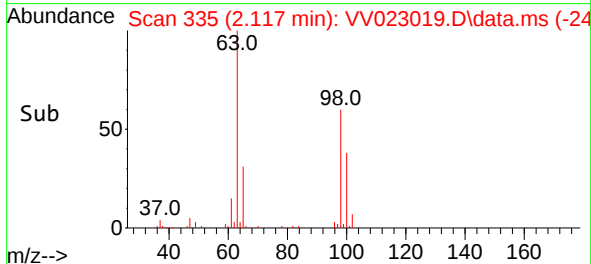
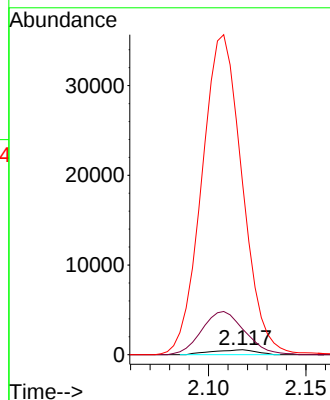


#12
 1,1-Dichloroethene
 Concen: 0.153 ug/L
 RT: 2.117 min Scan# 311
 Delta R.T. -0.003 min
 Lab File: VV023019.D
 Acq: 23 Oct 2021 18:59

Instrument :
 MSVOA_V
 ClientSampleId :

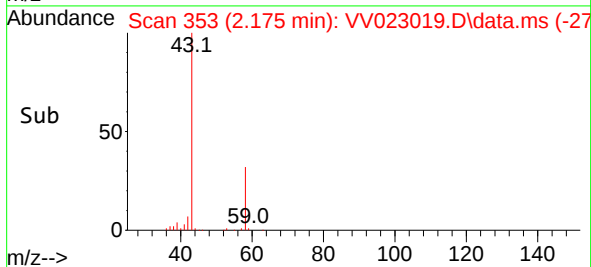
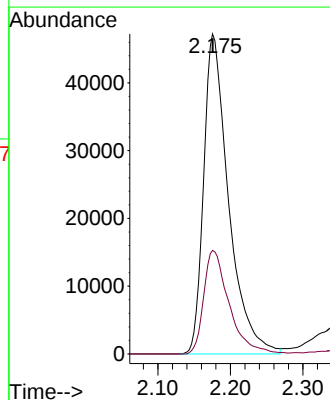
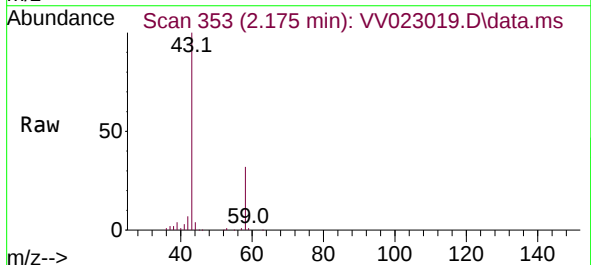


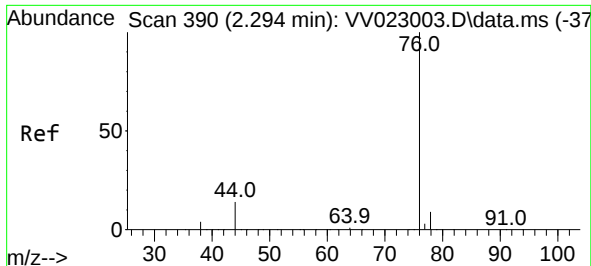
Tgt Ion: 96 Resp: 868
 Ion Ratio Lower Upper
 96 100
 61 512.7 121.5 225.7#
 63 3428.4 99.6 185.0#



#13
 Acetone
 Concen: 147.730 ug/L
 RT: 2.175 min Scan# 353
 Delta R.T. -0.051 min
 Lab File: VV023019.D
 Acq: 23 Oct 2021 18:59

Tgt Ion: 43 Resp: 112681
 Ion Ratio Lower Upper
 43 100
 58 33.0 0.0 55.4

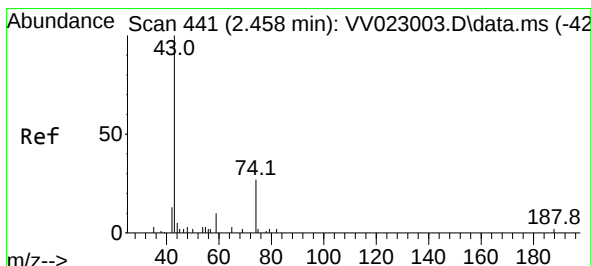
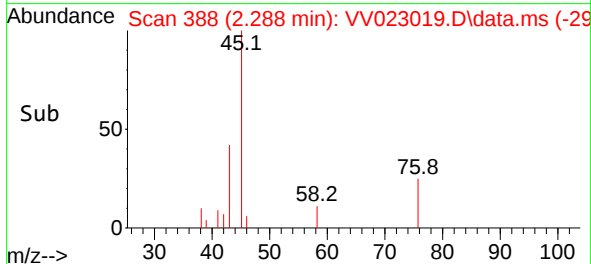
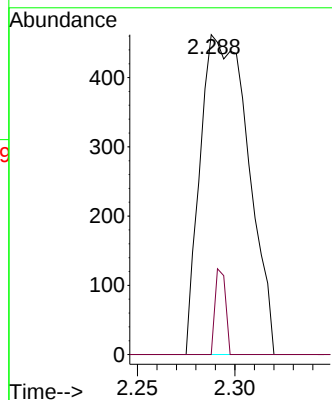
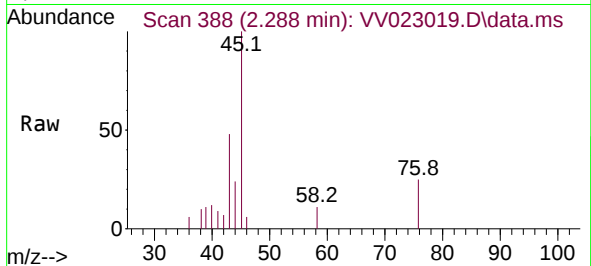




#14
Carbon disulfide
Concen: 0.051 ug/L
RT: 2.288 min Scan# 31
Delta R.T. -0.006 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

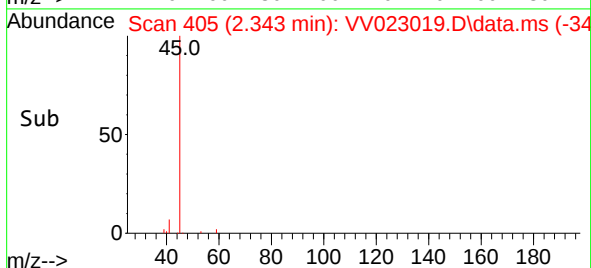
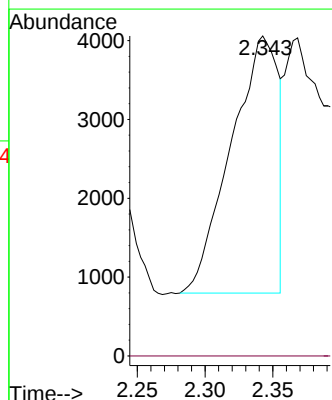
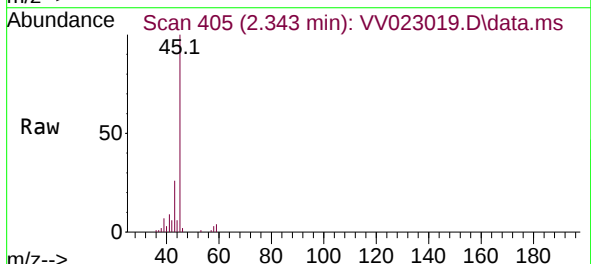
Instrument :
MSVOA_V
ClientSampleId :

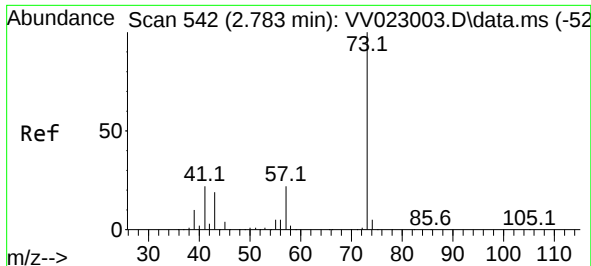
Tgt Ion: 76 Resp: 787
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#15
Methyl Acetate
Concen: 2.712 ug/L
RT: 2.343 min Scan# 405
Delta R.T. -0.116 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

Tgt Ion: 43 Resp: 7869
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.2#





#17

Methyl tert-butyl Ether

Concen: 0.148 ug/L

RT: 2.770 min Scan# 51

Delta R.T. -0.013 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

Instrument :

MSVOA_V

ClientSampleId :

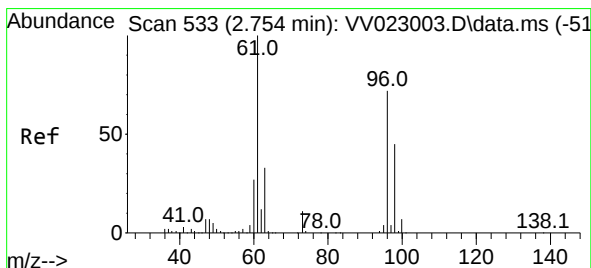
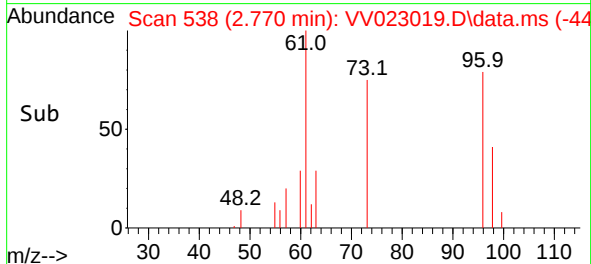
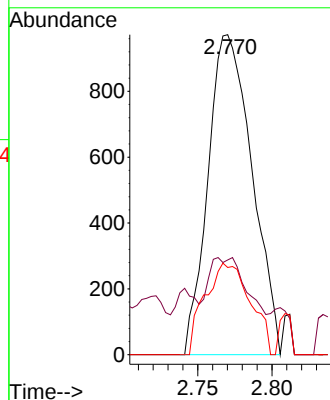
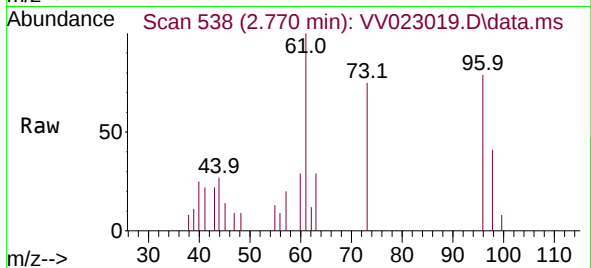
Tgt Ion: 73 Resp: 2006

Ion Ratio Lower Upper

73 100

43 23.0 17.4 26.0

57 29.5 16.5 24.7#



#18

trans-1,2-Dichloroethene

Concen: 0.334 ug/L

RT: 2.767 min Scan# 537

Delta R.T. 0.013 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

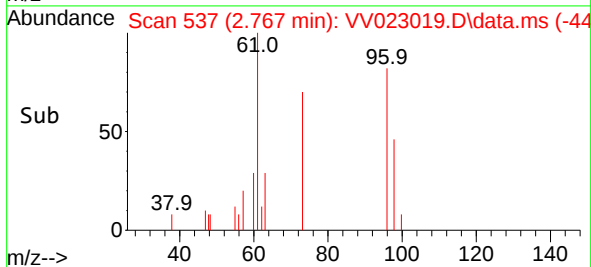
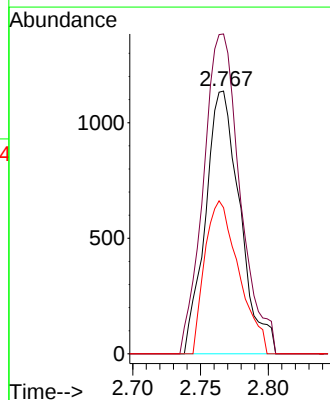
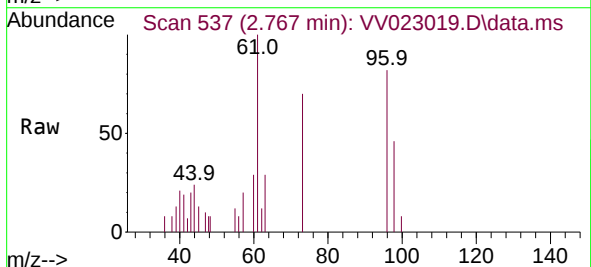
Tgt Ion: 96 Resp: 2026

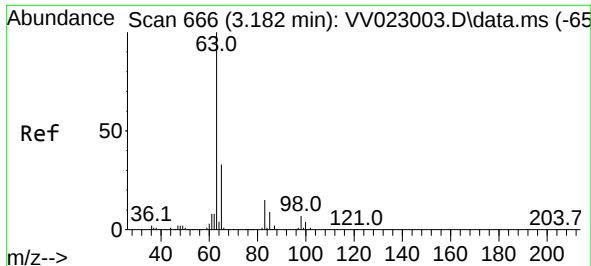
Ion Ratio Lower Upper

96 100

61 121.7 93.2 173.2

98 55.6 47.0 87.2





#19

1,1-Dichloroethane

Concen: 0.079 ug/L

RT: 3.195 min Scan# 61

Delta R.T. 0.013 min

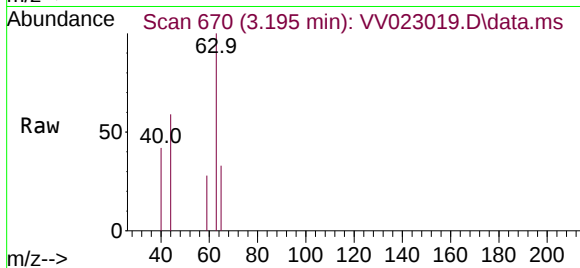
Lab File: VV023019.D

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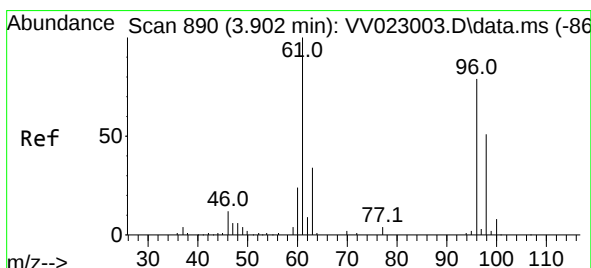
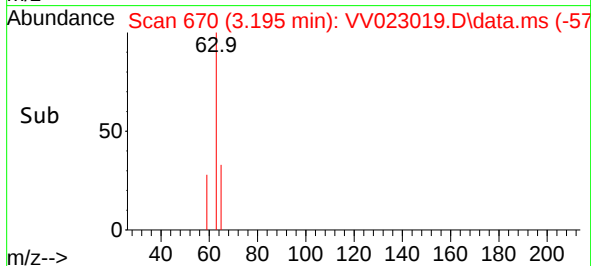
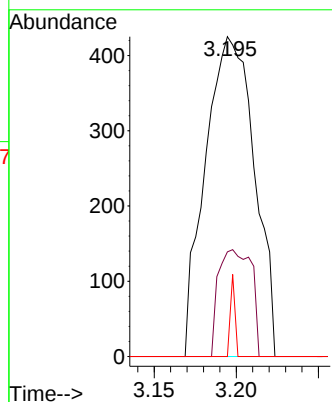
Tgt Ion: 63 Resp: 883

Ion Ratio Lower Upper

63 100

65 32.7 22.6 42.0

83 0.0 11.1 20.7#



#22

cis-1,2-Dichloroethene

Concen: 55.841 ug/L

RT: 3.912 min Scan# 893

Delta R.T. 0.010 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

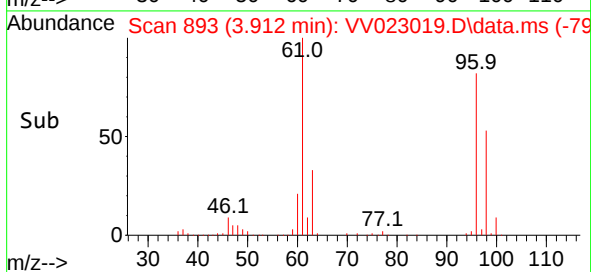
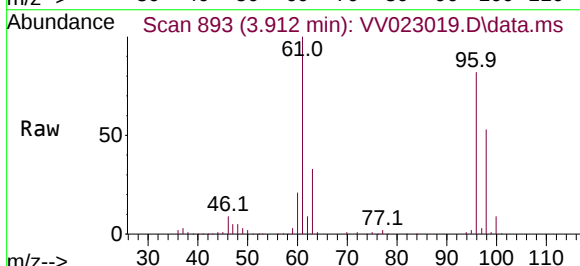
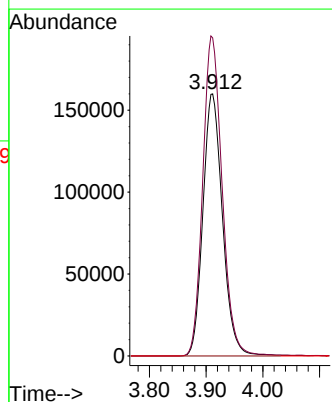
Tgt Ion: 96 Resp: 383812

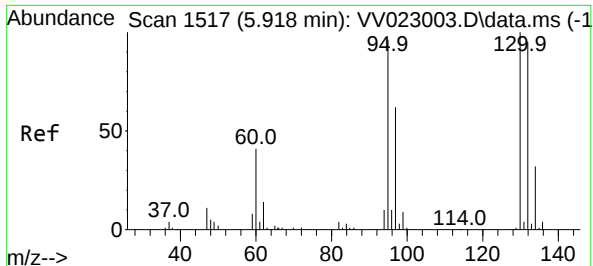
Ion Ratio Lower Upper

96 100

61 121.4 92.3 171.3

68 0.0 0.4 0.8#

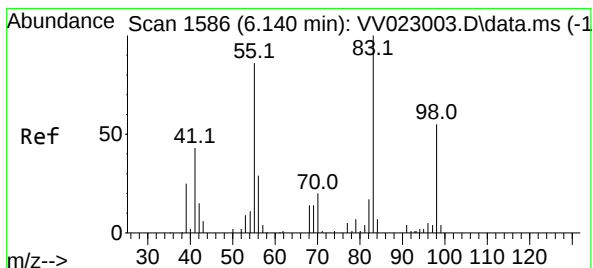
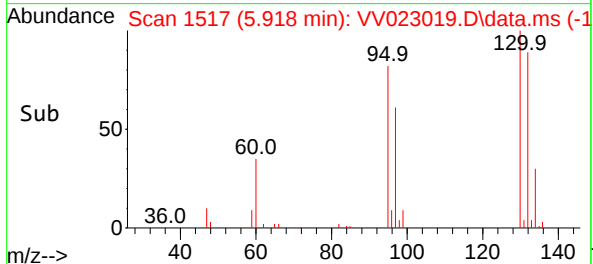
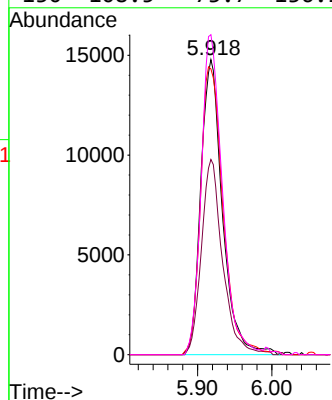
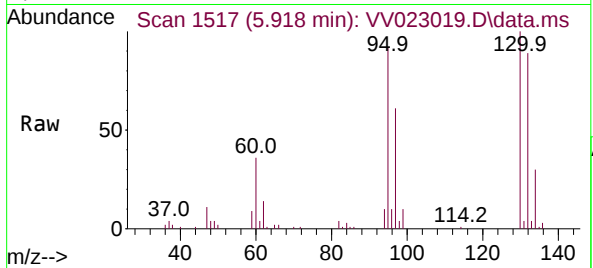




#34
Trichloroethene
Concen: 3.942 ug/L
RT: 5.918 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

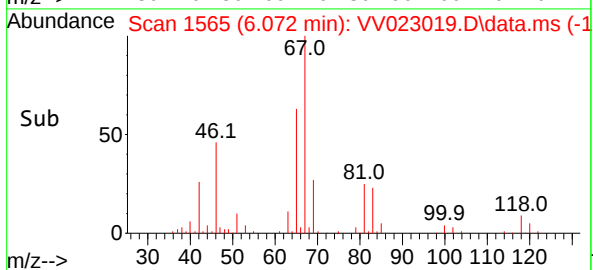
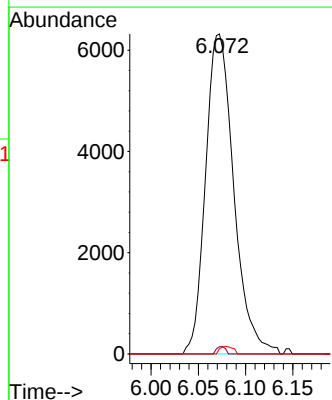
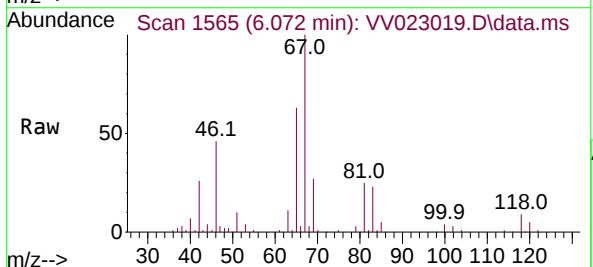
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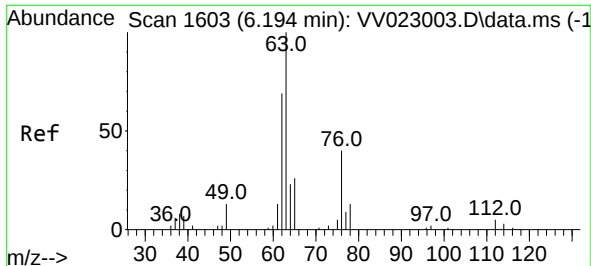
Tgt Ion:	95	Resp:	29928
Ion	Ratio	Lower	Upper
95	100		
97	66.2	45.0	83.6
132	96.9	69.7	129.4
130	108.5	73.7	136.9



#35
Methylcyclohexane
Concen: 1.208 ug/L
RT: 6.072 min Scan# 1565
Delta R.T. -0.067 min
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Tgt Ion:	83	Resp:	13129
Ion	Ratio	Lower	Upper
83	100		
55	0.7	62.8	94.2#
98	1.1	37.9	56.9#





#37

1,2-Dichloropropane

Concen: 0.833 ug/L

RT: 6.072 min Scan# 1

Delta R.T. -0.122 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

Instrument :

MSVOA_V

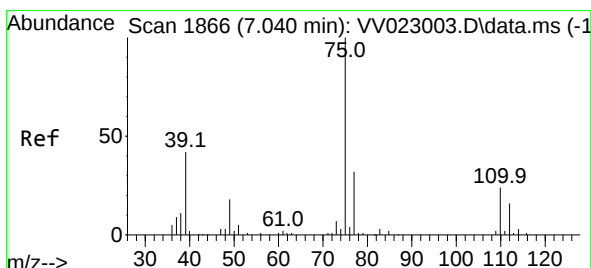
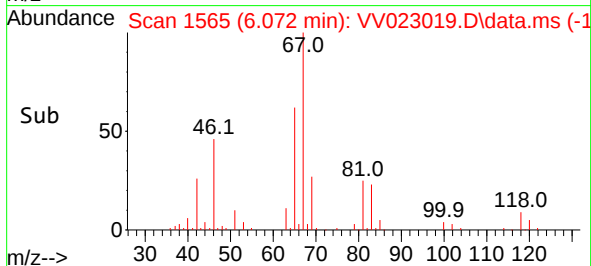
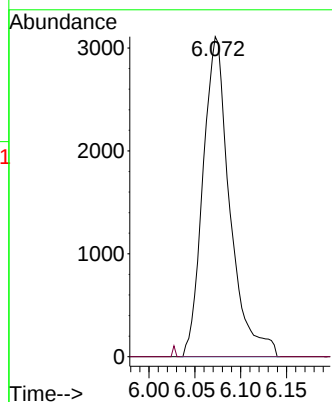
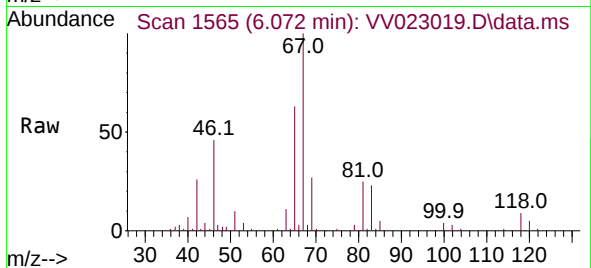
ClientSampleId :

Tgt Ion: 63 Resp: 6342

Ion Ratio Lower Upper

63 100

112 0.3 4.6 6.8#



#39

cis-1,3-Dichloropropene

Concen: 0.125 ug/L

RT: 6.992 min Scan# 1851

Delta R.T. -0.048 min

Lab File: VV023019.D

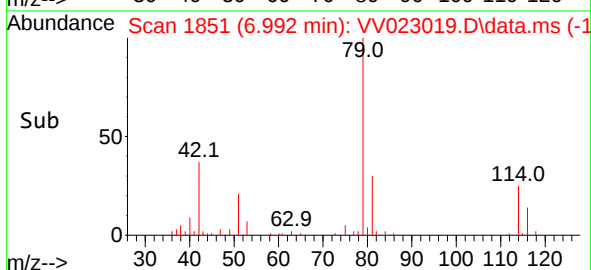
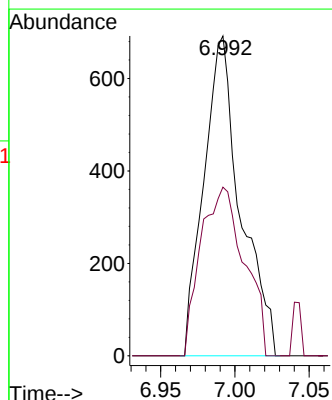
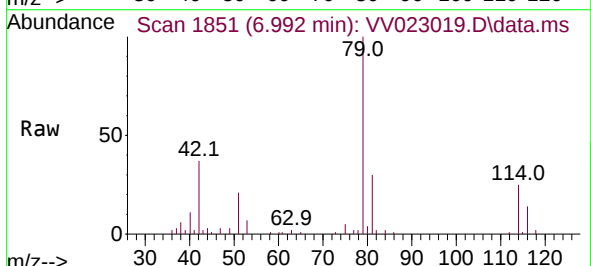
Acq: 23 Oct 2021 18:59

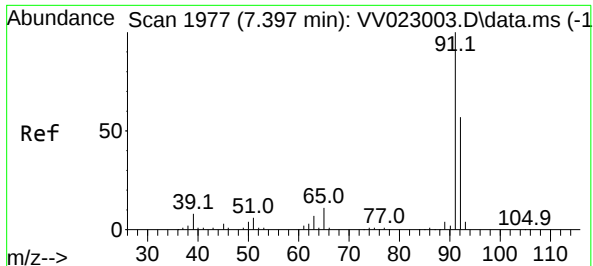
Tgt Ion: 75 Resp: 1190

Ion Ratio Lower Upper

75 100

77 52.7 21.6 40.2#

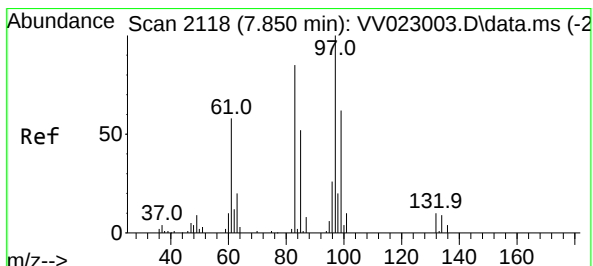
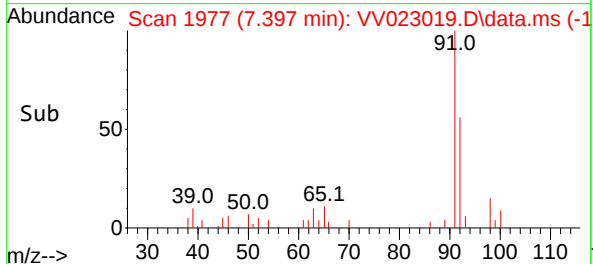
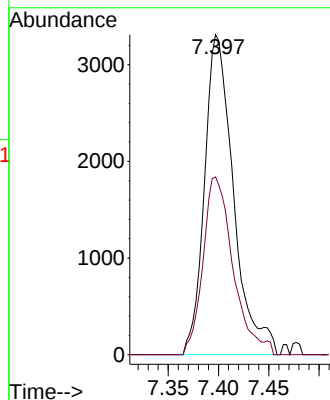
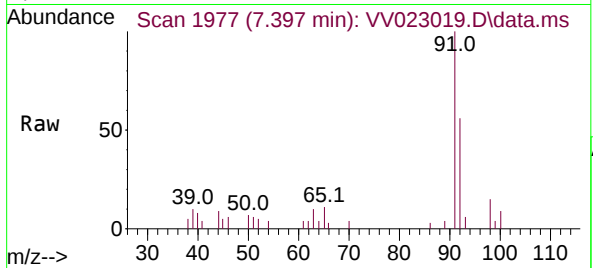




#42
Toluene
Concen: 0.217 ug/L
RT: 7.397 min Scan# 1977
Delta R.T. 0.000 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

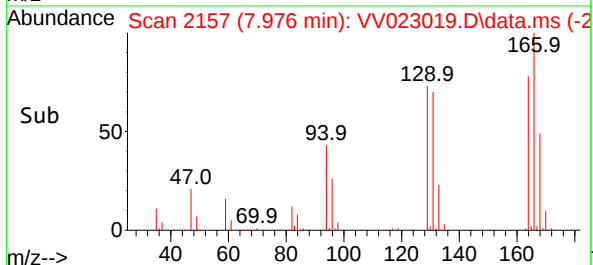
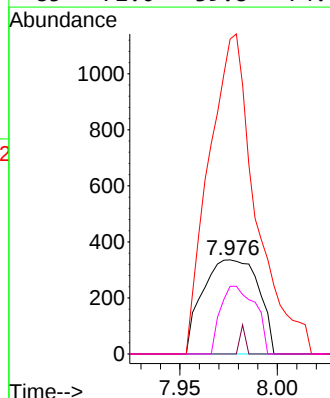
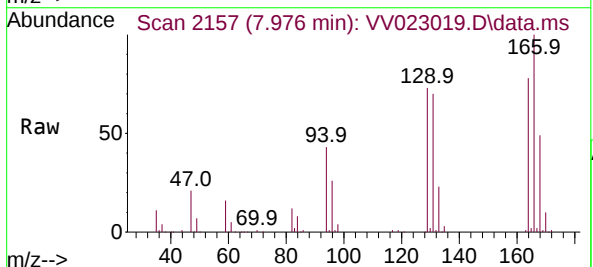
Instrument :
MSVOA_V
ClientSampleId :

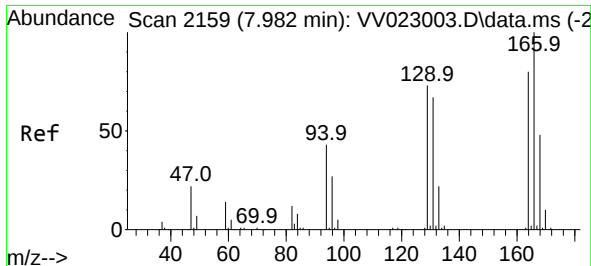
Tgt Ion: 91 Resp: 6652
Ion Ratio Lower Upper
91 100
92 55.5 39.3 72.9



#45
1,1,2-Trichloroethane
Concen: 0.126 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.125 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

Tgt Ion: 97 Resp: 669
Ion Ratio Lower Upper
97 100
99 0.0 43.6 81.0#
83 334.5 58.4 108.4#
85 72.0 39.8 74.0





#47

Tetrachloroethene

Concen: 12.742 ug/L

RT: 7.976 min Scan# 2159

Delta R.T. -0.006 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:164 Resp: 81727

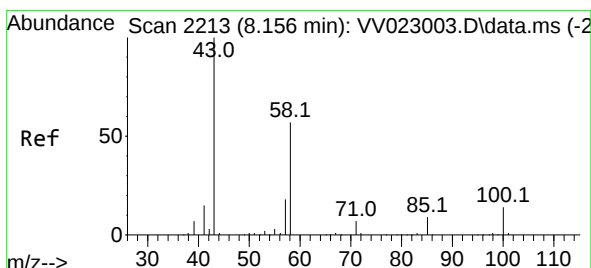
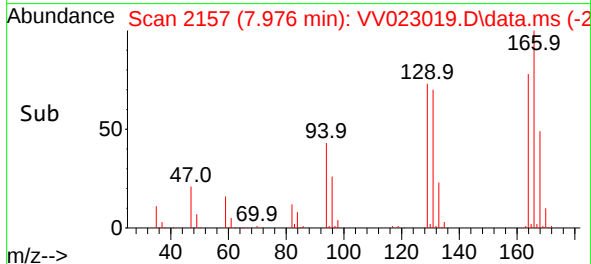
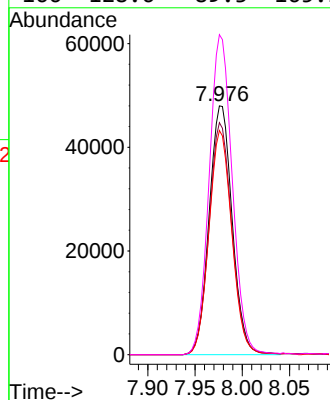
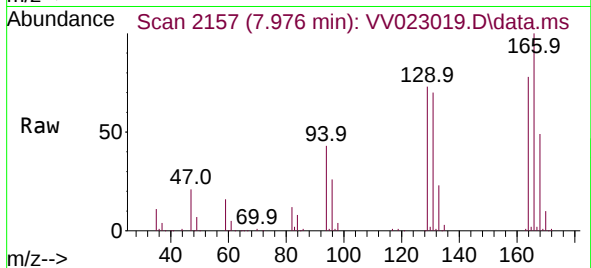
Ion Ratio Lower Upper

164 100

129 93.3 64.0 119.0

131 90.1 63.4 117.8

166 128.6 89.3 165.9



#48

2-Hexanone

Concen: 1.850 ug/L

RT: 8.153 min Scan# 2212

Delta R.T. -0.003 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

Tgt Ion: 43 Resp: 4925

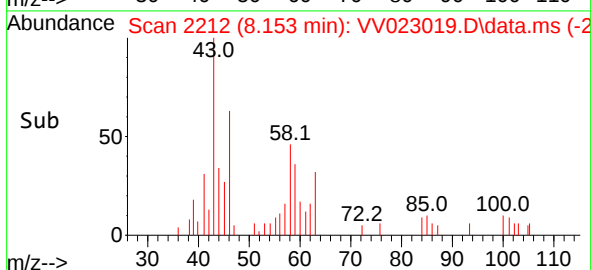
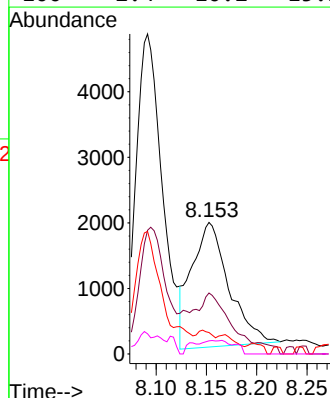
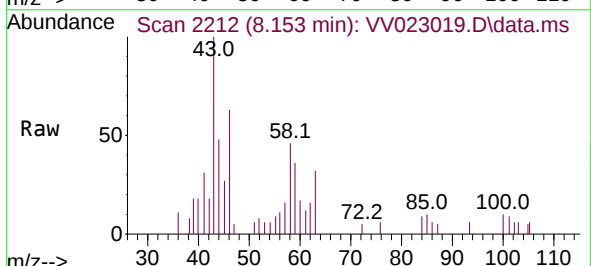
Ion Ratio Lower Upper

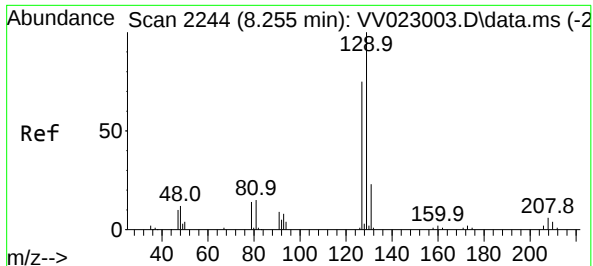
43 100

58 39.5 43.7 65.5#

57 2.6 14.1 21.1#

100 2.4 10.2 15.2#





#49

Dibromochloromethane

Concen: 10.350 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.280 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

Instrument :

MSVOA_V

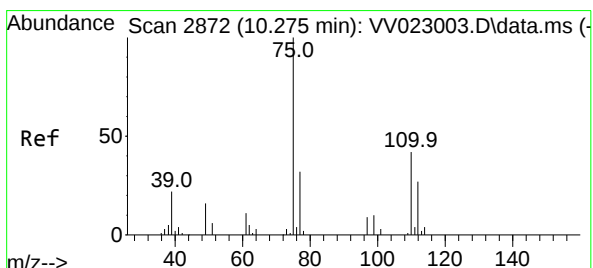
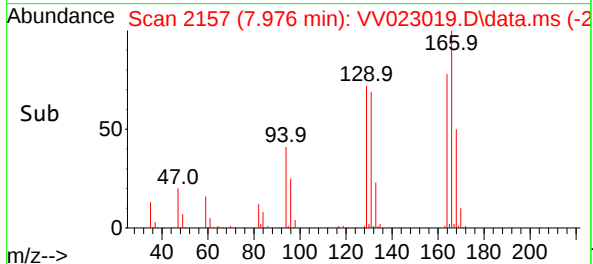
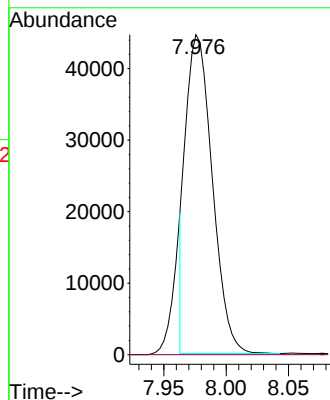
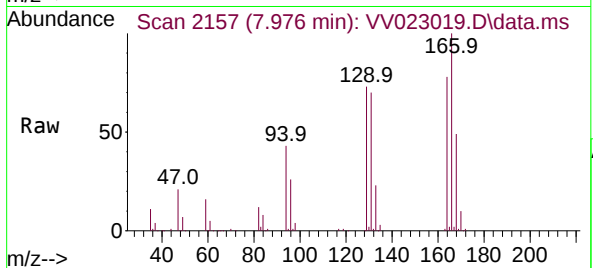
ClientSampleId :

Tgt Ion:129 Resp: 65623

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#61

1,2,3-Trichloropropane

Concen: 0.264 ug/L

RT: 11.181 min Scan# 3154

Delta R.T. 0.907 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

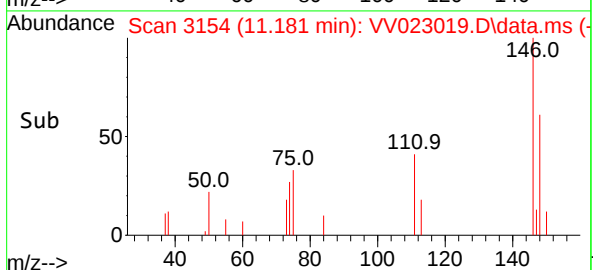
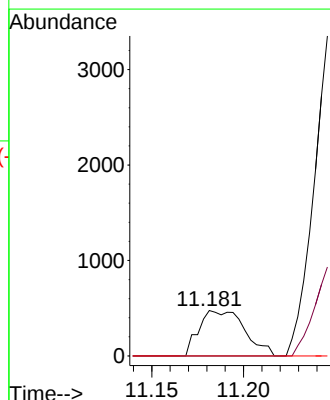
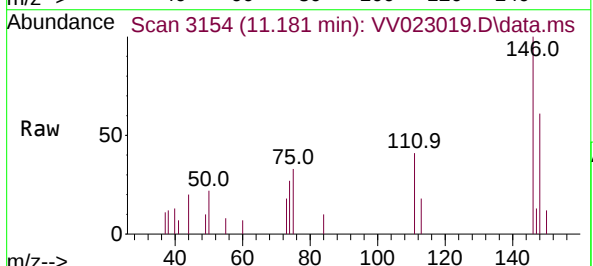
Tgt Ion: 75 Resp: 821

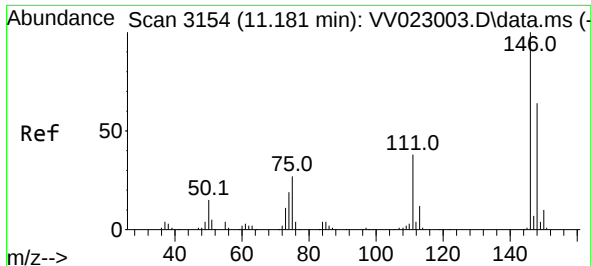
Ion Ratio Lower Upper

75 100

77 20.3 26.6 39.8#

110 0.0 31.8 47.6#

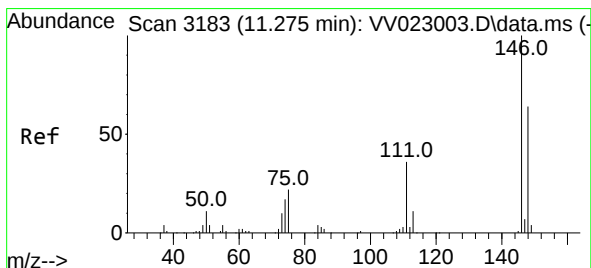
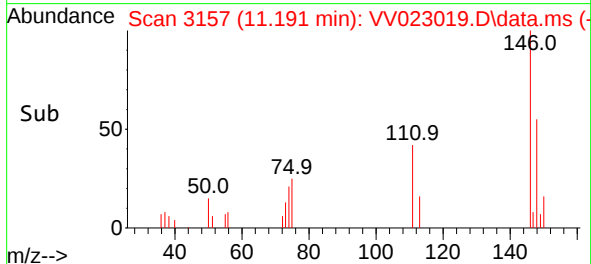
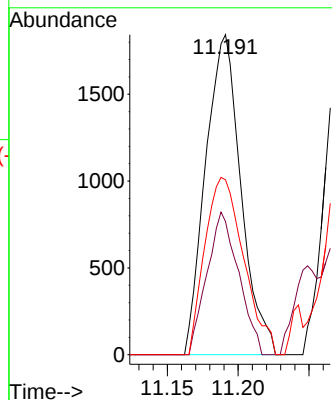
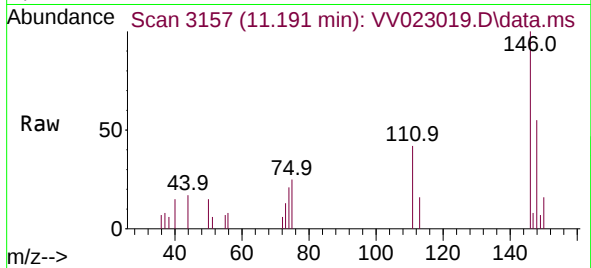




#64
1,3-Dichlorobenzene
Concen: 0.272 ug/L
RT: 11.191 min Scan# 3157
Delta R.T. 0.010 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

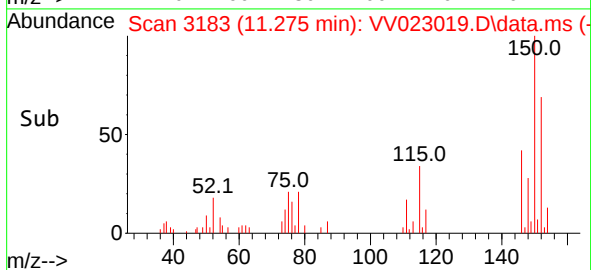
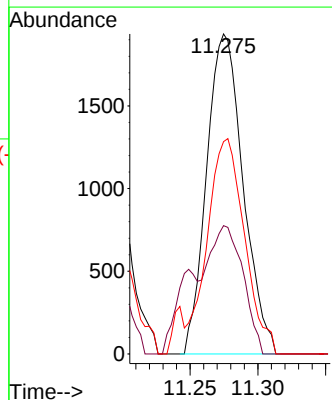
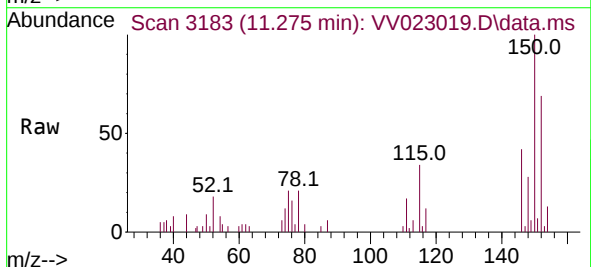
Instrument :
MSVOA_V
ClientSampleId :

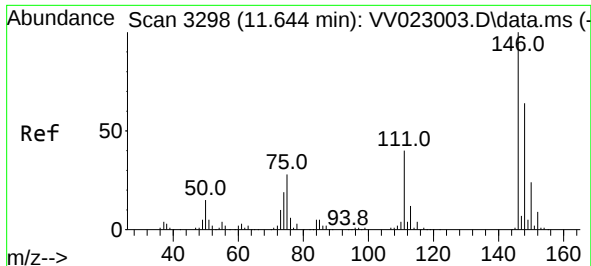
Tgt Ion:146 Resp: 3198
Ion Ratio Lower Upper
146 100
111 41.7 26.7 49.7
148 54.6 42.9 79.7



#65
1,4-Dichlorobenzene
Concen: 0.303 ug/L
RT: 11.275 min Scan# 3183
Delta R.T. 0.000 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

Tgt Ion:146 Resp: 3624
Ion Ratio Lower Upper
146 100
111 40.1 26.2 48.8
148 66.4 44.4 82.5





#67

1,2-Dichlorobenzene

Concen: 0.312 ug/L

RT: 11.644 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

Instrument :

MSVOA_V

ClientSampleId :

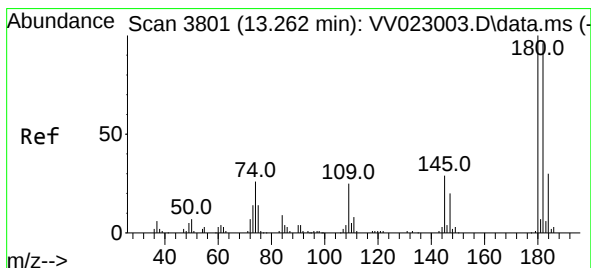
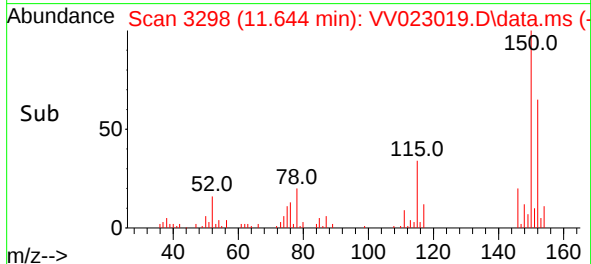
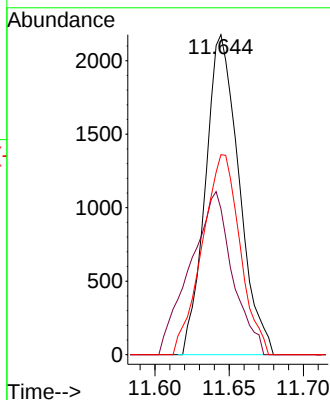
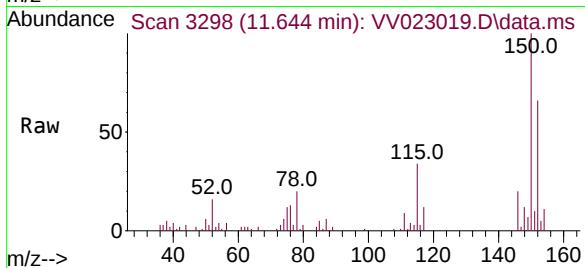
Tgt Ion:146 Resp: 3420

Ion Ratio Lower Upper

146 100

111 45.6 31.6 47.4

148 62.5 51.0 76.6



#70

1,2,4-trichlorobenzene

Concen: 0.072 ug/L

RT: 13.271 min Scan# 3804

Delta R.T. 0.010 min

Lab File: VV023019.D

Acq: 23 Oct 2021 18:59

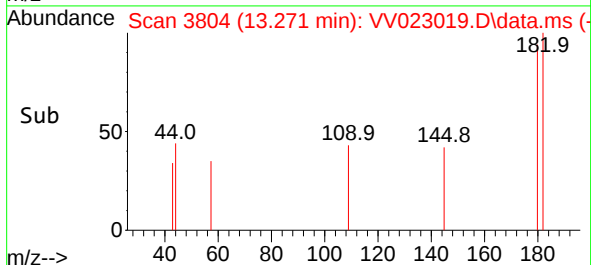
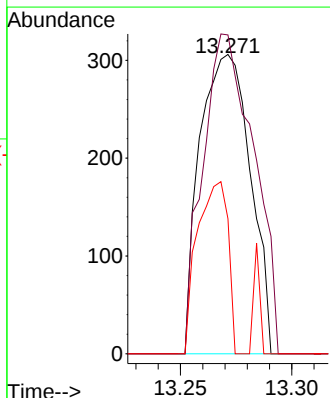
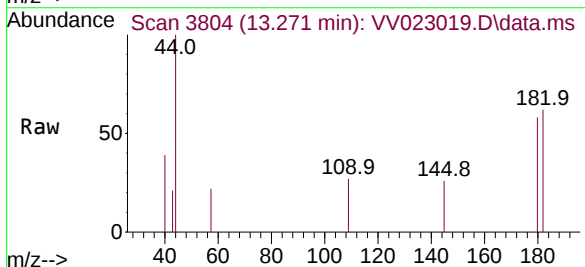
Tgt Ion:180 Resp: 482

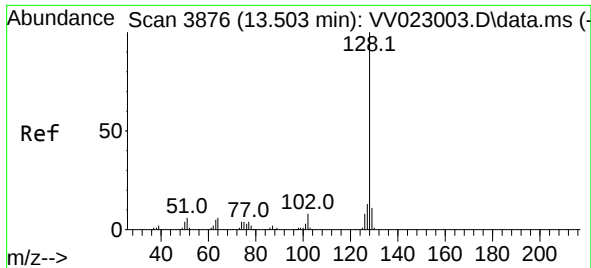
Ion Ratio Lower Upper

180 100

182 108.1 76.9 115.3

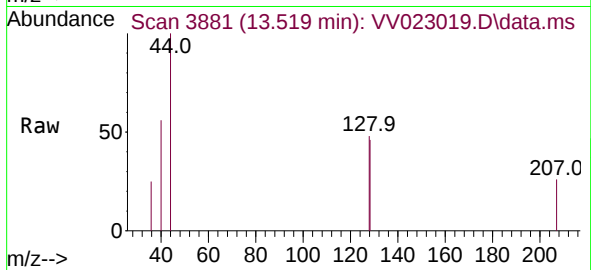
145 35.1 24.4 36.6





#71
Naphthalene
Concen: 0.056 ug/L
RT: 13.519 min Scan# 3881
Delta R.T. 0.016 min
Lab File: VV023019.D
Acq: 23 Oct 2021 18:59

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 571
Ion Ratio Lower Upper
128 100
129 7.0 8.6 13.0#
127 0.0 10.5 15.7#

