

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031723\
 Data File : VW030242.D
 Acq On : 17 Mar 2023 17:53
 Operator : SY/MD
 Sample : 01996-09
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 17 23:00:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 17 22:49:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	130195	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.793	117	120056	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	59481	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	31733	3.767	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.400%
7) Chloroethane-d5	1.536	69	29972	3.790	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.800%
11) 1,1-Dichloroethene-d2	2.073	63	913237	52.729	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	1054.600%#
20) 2-Butanone-d5	3.815	46	85062	54.766	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.540%
24) Chloroform-d	4.262	84	84089	4.886	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.800%
26) 1,2-Dichloroethane-d4	4.953	65	35986	5.123	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.400%
32) Benzene-d6	4.973	84	127338	3.942	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.800%
36) 1,2-Dichloropropane-d6	5.998	67	40487	4.166	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.400%
41) Toluene-d8	7.252	98	111038	3.626	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.600%
43) trans-1,3-Dichloroprop...	7.564	79	14489	4.358	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.200%
46) 2-Hexanone-d5	8.037	63	67348	48.959	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.920%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	26573	3.843	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.800%
66) 1,2-Dichlorobenzene-d4	11.571	152	42724	4.245	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	31888	1.910	ug/L	97
6) Bromomethane	1.497	94	2256	1.133	ug/L	88
10) 1,1,2-Trichloro-1,2,2-...	2.073	101	4793	0.486	ug/L #	44
12) 1,1-Dichloroethene	2.076	96	1478658	169.233	ug/L #	71
16) Methylene chloride	2.455	84	4620	0.433	ug/L	96
18) trans-1,2-Dichloroethene	2.700	96	1575	0.189	ug/L	94
19) 1,1-Dichloroethane	3.121	63	126916	8.197	ug/L	99
22) cis-1,2-Dichloroethene	3.825	96	108256	11.784	ug/L	90
25) Chloroform	4.285	83	310134	19.254	ug/L	99
27) 1,2-Dichloroethane	5.063	62	3532	0.419	ug/L #	92
29) 1,1,1-Trichloroethane	4.523	97	862045	61.124	ug/L	96
31) Carbon tetrachloride	4.745	117	6180	0.488	ug/L	98
33) Benzene	5.021	78	24309	0.741	ug/L	100
34) Trichloroethene	5.844	95	3982986	433.524	ug/L	94
35) Methylcyclohexane	6.002	83	10535	0.758	ug/L #	20
37) 1,2-Dichloropropane	5.998	63	5273	0.632	ug/L #	88
39) cis-1,3-Dichloropropene	6.921	75	1369	0.112	ug/L #	71
45) 1,1,2-Trichloroethane	7.941	97	284092	47.597	ug/L #	21
49) Dibromochloromethane	7.944	129	25539212	3656.643	ug/L #	10

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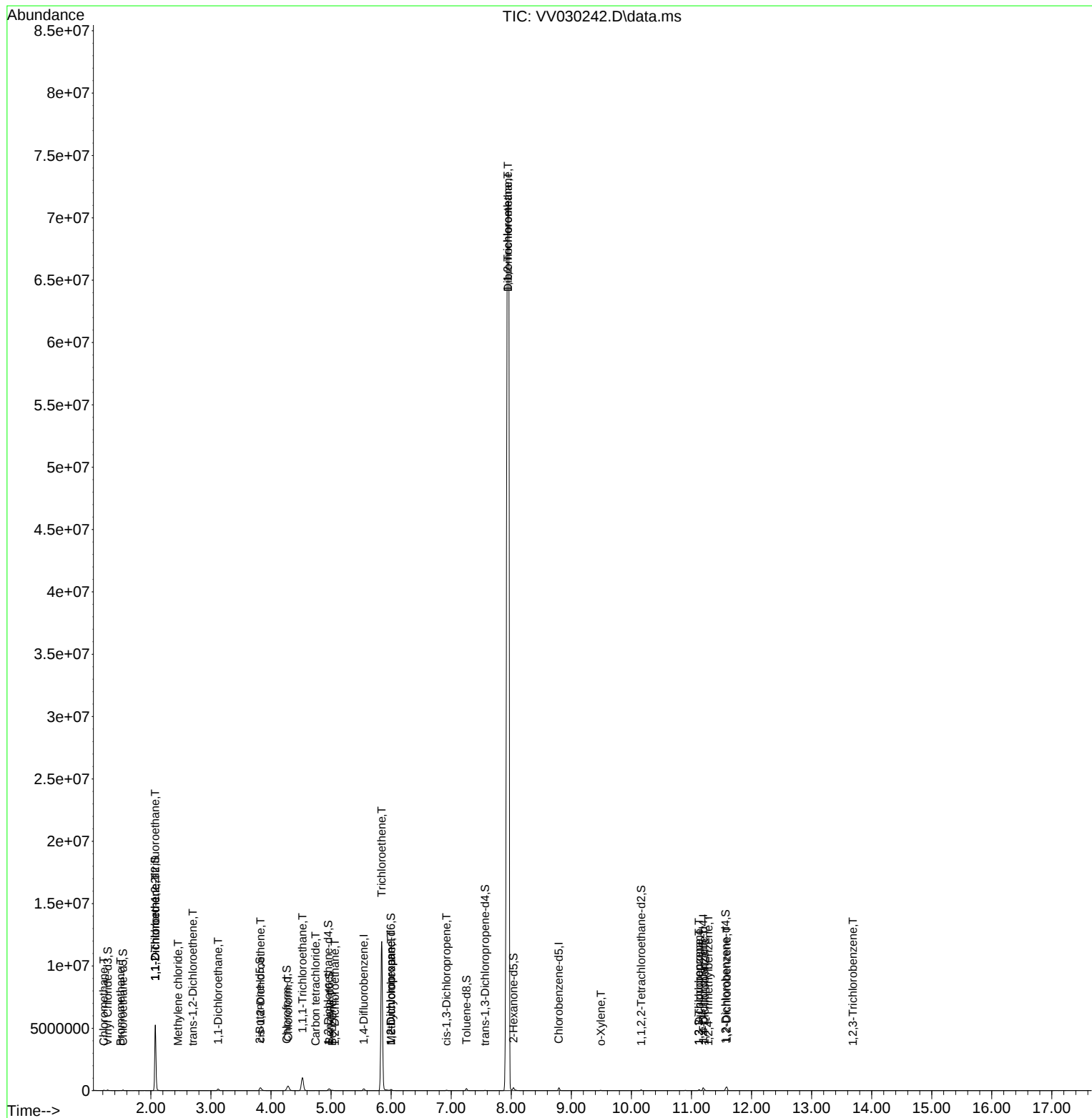
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.490	106	8430	0.594	ug/L	97
61) 1,2,3-Trichloropropane	11.127	75	9073	2.279	ug/L #	50
63) 1,2,4-Trimethylbenzene	11.284	105	3755	0.131	ug/L	90
64) 1,3-Dichlorobenzene	11.127	146	31832	1.786	ug/L	97
65) 1,4-Dichlorobenzene	11.220	146	25257	1.405	ug/L	98
67) 1,2-Dichlorobenzene	11.590	146	99057	6.295	ug/L	98
72) 1,2,3-Trichlorobenzene	13.689	180	1153	0.118	ug/L #	95

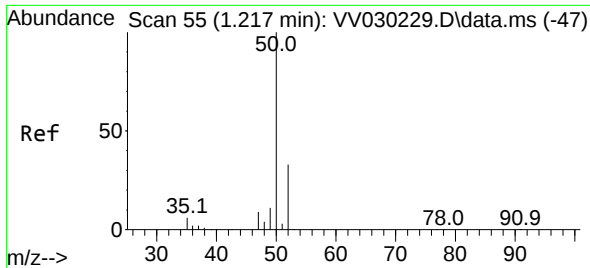
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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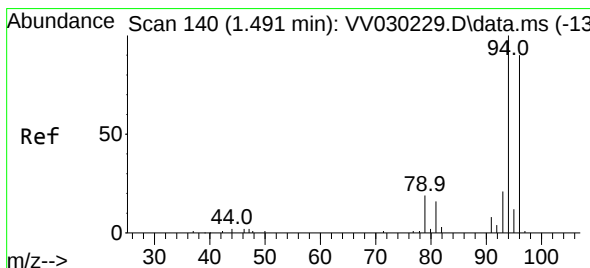
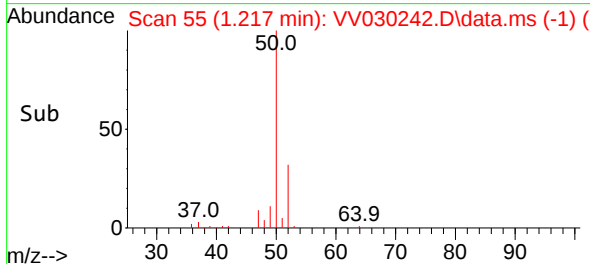
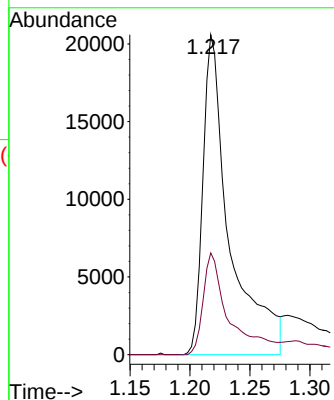
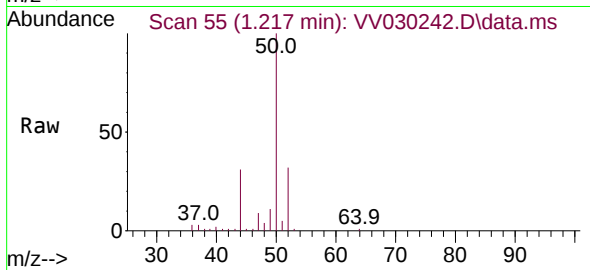




#3
Chloromethane
Concen: 1.910 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.000 min
Lab File: VV030242.D
Acq: 17 Mar 2023 17:53

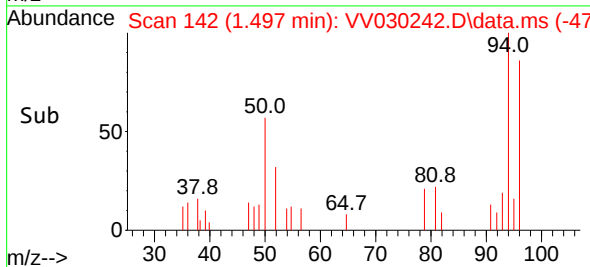
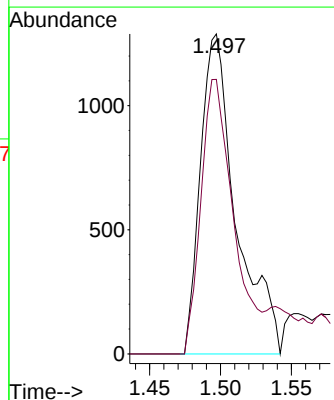
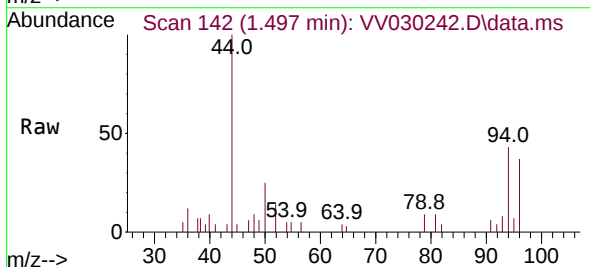
Instrument :
MSVOA_V
ClientSampleId :

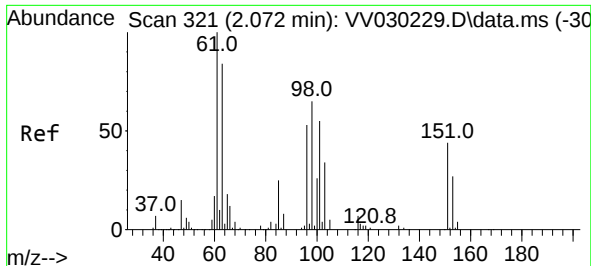
Tgt Ion: 50 Resp: 31888
Ion Ratio Lower Upper
50 100
52 31.8 23.6 43.8



#6
Bromomethane
Concen: 1.133 ug/L
RT: 1.497 min Scan# 142
Delta R.T. 0.007 min
Lab File: VV030242.D
Acq: 17 Mar 2023 17:53

Tgt Ion: 94 Resp: 2256
Ion Ratio Lower Upper
94 100
96 85.8 68.4 127.0

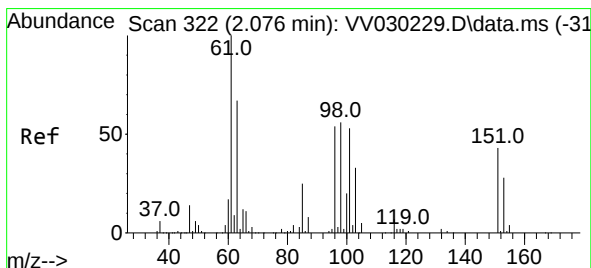
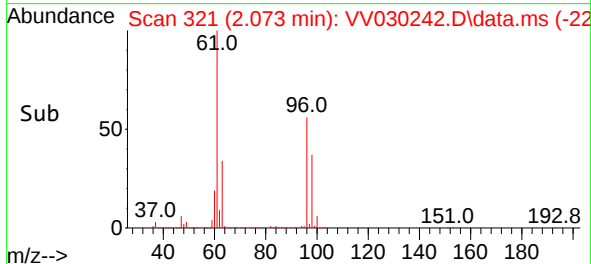
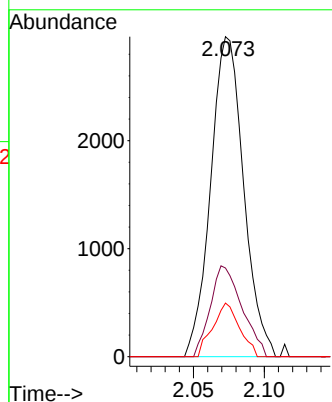
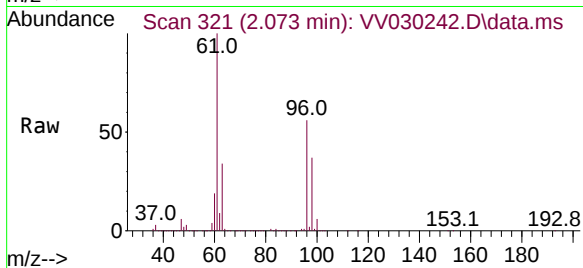




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.486 ug/L
 RT: 2.073 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VV030242.D
 Acq: 17 Mar 2023 17:53

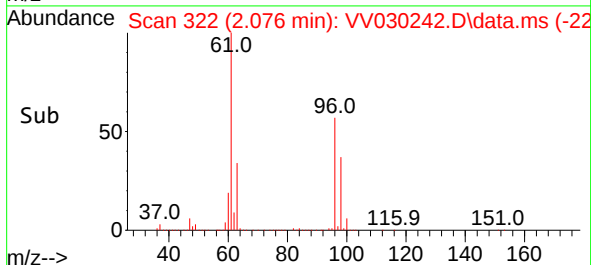
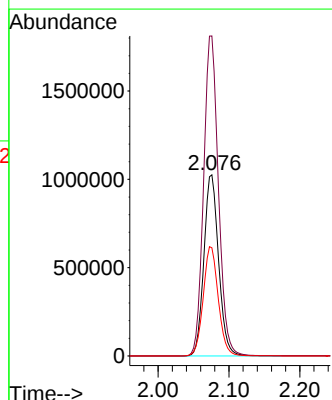
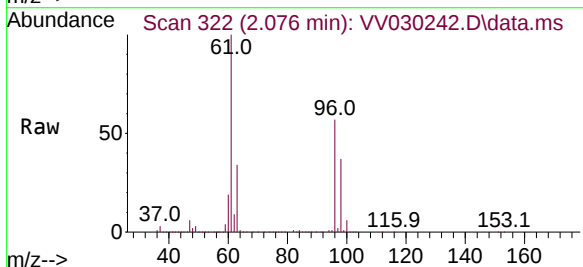
Instrument :
 MSVOA_V
 ClientSampleId :

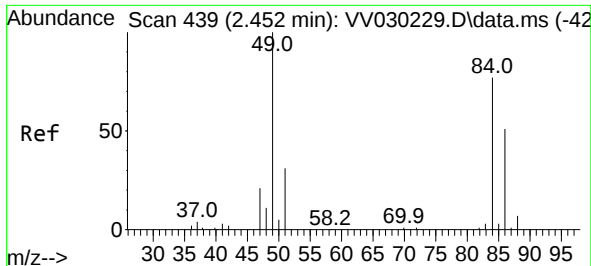
Tgt Ion:101 Resp: 4793
 Ion Ratio Lower Upper
 101 100
 85 27.3 33.5 50.3#
 151 13.6 61.6 92.4#



#12
 1,1-Dichloroethene
 Concen: 169.233 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. 0.000 min
 Lab File: VV030242.D
 Acq: 17 Mar 2023 17:53

Tgt Ion: 96 Resp: 1478658
 Ion Ratio Lower Upper
 96 100
 61 176.7 115.6 214.6
 63 59.7 85.6 159.0#

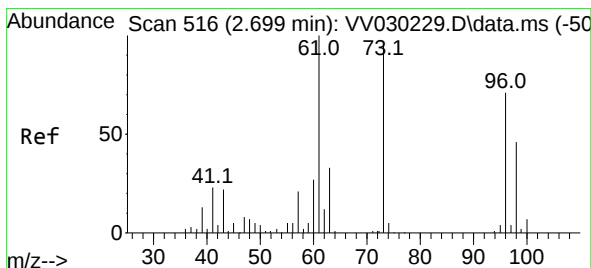
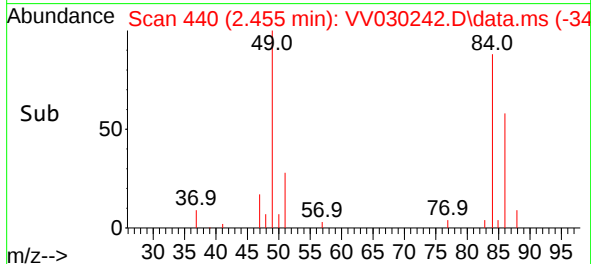
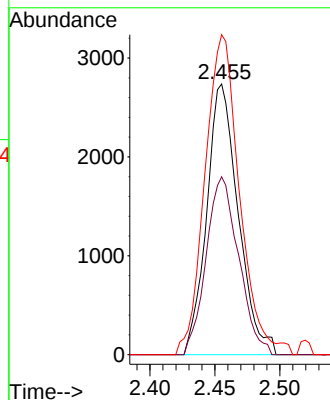
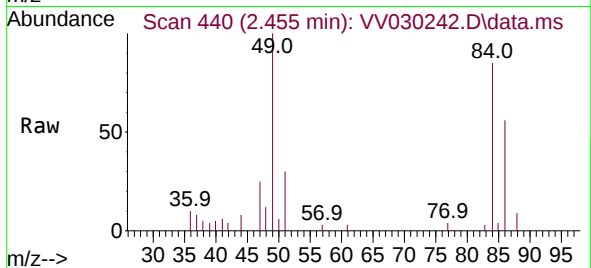




#16
Methylene chloride
Concen: 0.433 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.003 min
Lab File: VV030242.D
Acq: 17 Mar 2023 17:53

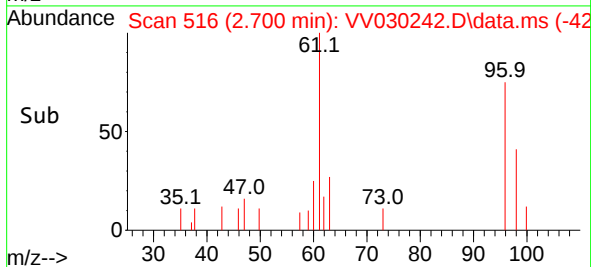
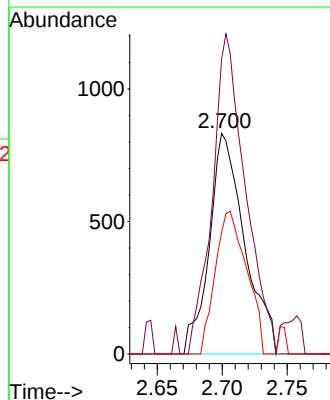
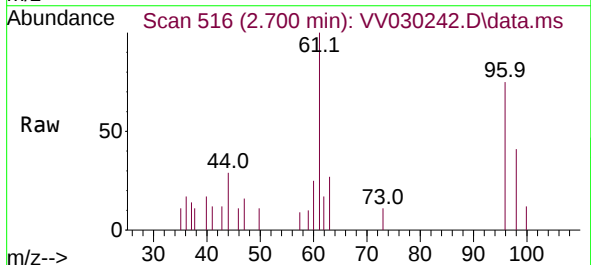
Instrument :
MSVOA_V
ClientSampleId :

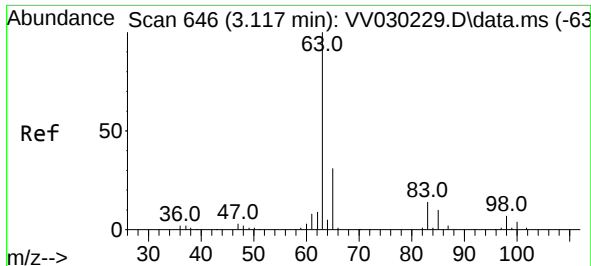
Tgt Ion: 84 Resp: 4620
Ion Ratio Lower Upper
84 100
86 65.7 44.7 83.1
49 118.2 78.8 146.3



#18
trans-1,2-Dichloroethene
Concen: 0.189 ug/L
RT: 2.700 min Scan# 516
Delta R.T. 0.000 min
Lab File: VV030242.D
Acq: 17 Mar 2023 17:53

Tgt Ion: 96 Resp: 1575
Ion Ratio Lower Upper
96 100
61 133.7 91.0 169.0
98 55.2 45.2 84.0





#19

1,1-Dichloroethane

Concen: 8.197 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV030242.D

Acq: 17 Mar 2023 17:53

Instrument :

MSVOA_V

ClientSampleId :

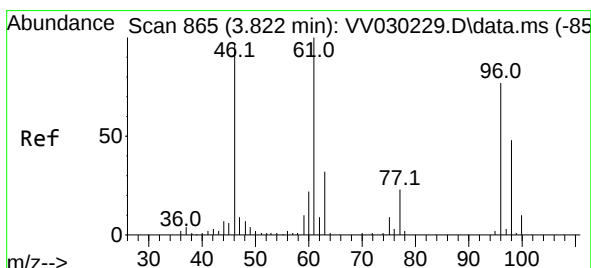
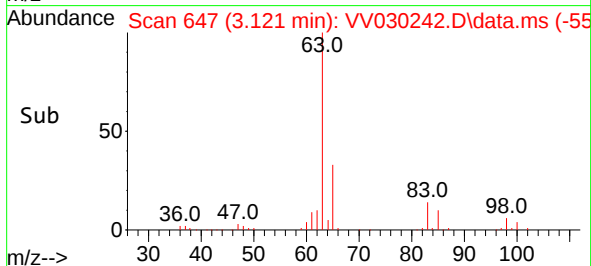
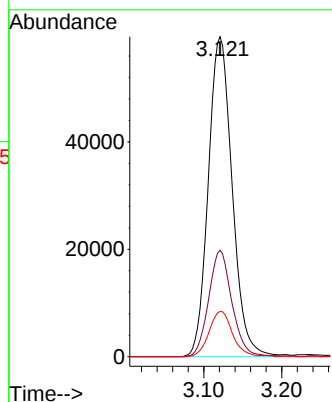
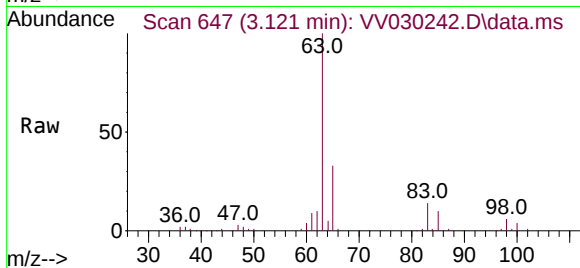
Tgt Ion: 63 Resp: 126916

Ion Ratio Lower Upper

63 100

65 33.2 23.0 42.8

83 14.2 9.6 17.8



#22

cis-1,2-Dichloroethene

Concen: 11.784 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.003 min

Lab File: VV030242.D

Acq: 17 Mar 2023 17:53

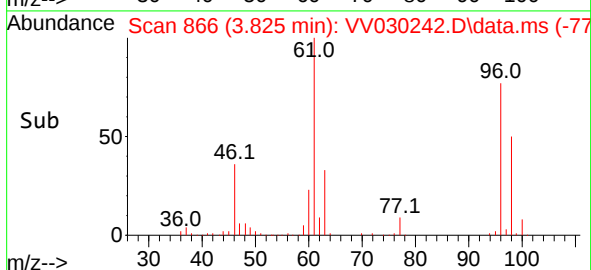
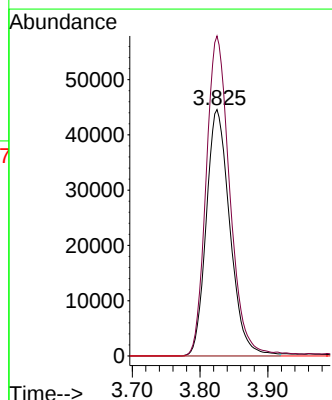
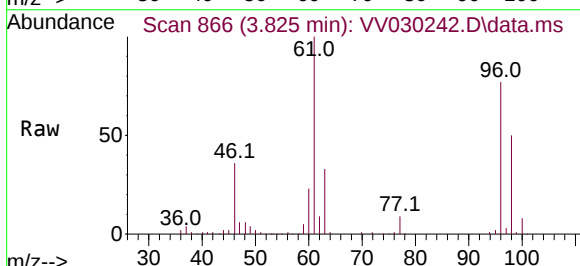
Tgt Ion: 96 Resp: 108256

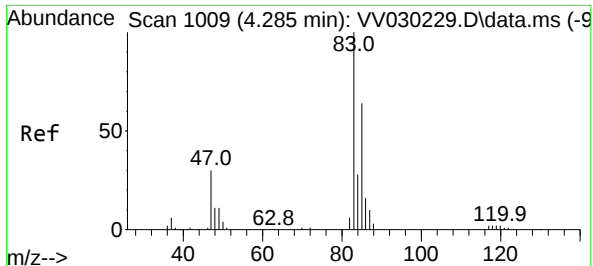
Ion Ratio Lower Upper

96 100

61 129.9 83.4 154.8

68 0.0 0.0 0.0





#25

Chloroform

Concen: 19.254 ug/L

RT: 4.285 min Scan# 10

Delta R.T. 0.000 min

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Instrument :

MSVOA_V

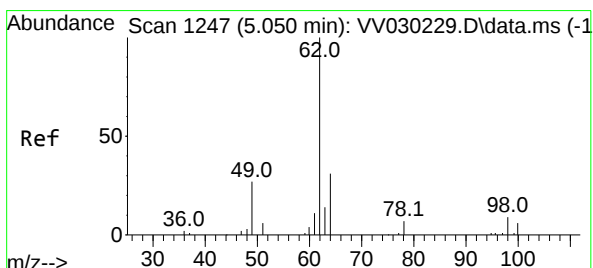
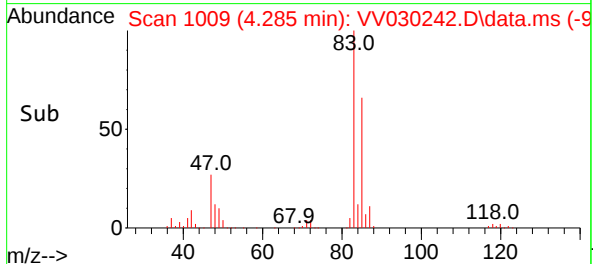
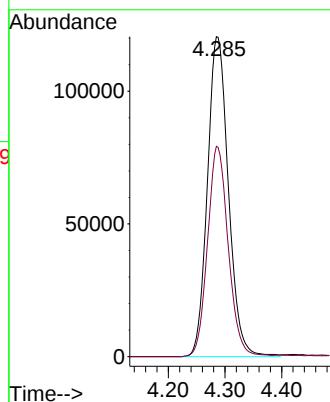
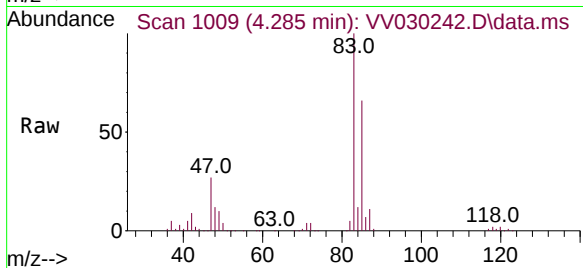
ClientSampleId :

Tgt Ion: 83 Resp: 310134

Ion Ratio Lower Upper

83 100

85 65.7 46.5 86.5



#27

1,2-Dichloroethane

Concen: 0.419 ug/L

RT: 5.063 min Scan# 1251

Delta R.T. 0.013 min

Lab File: VV030242.D

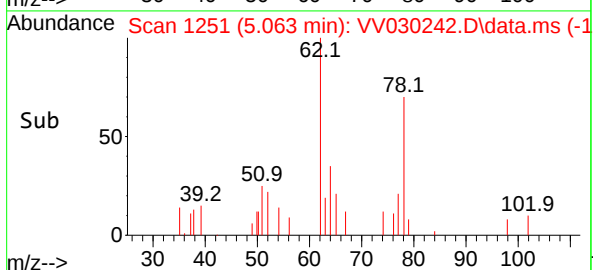
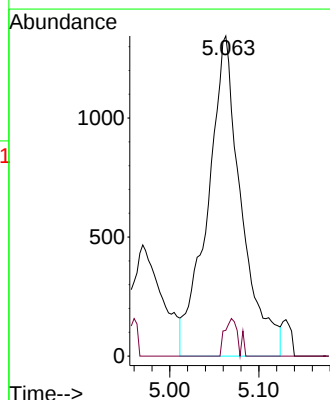
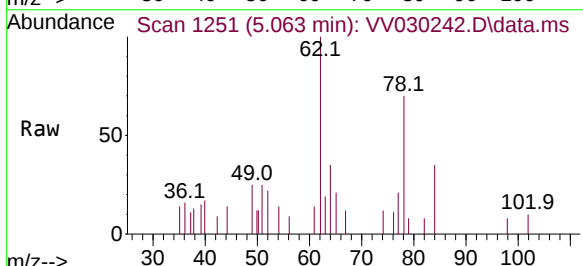
Acq: 17 Mar 2023 17:53

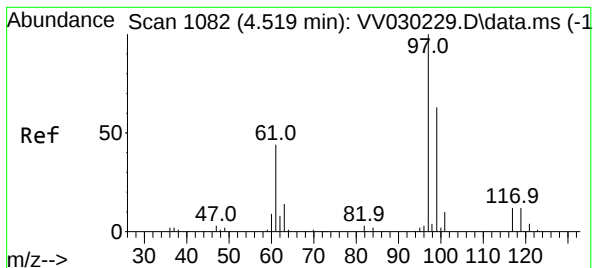
Tgt Ion: 62 Resp: 3532

Ion Ratio Lower Upper

62 100

98 8.0 9.0 13.4#





#29

1,1,1-Trichloroethane

Concen: 61.124 ug/L

RT: 4.523 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV030242.D

Acq: 17 Mar 2023 17:53

Instrument :

MSVOA_V

ClientSampleId :

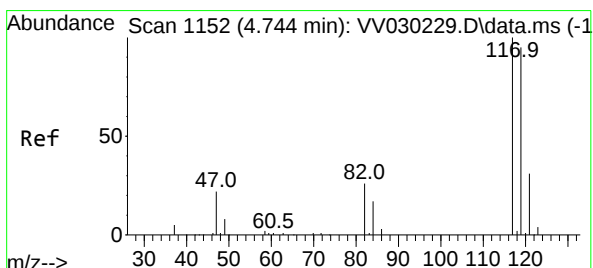
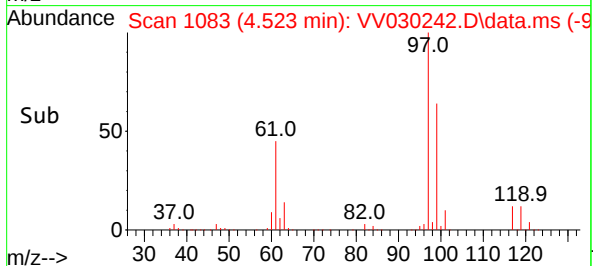
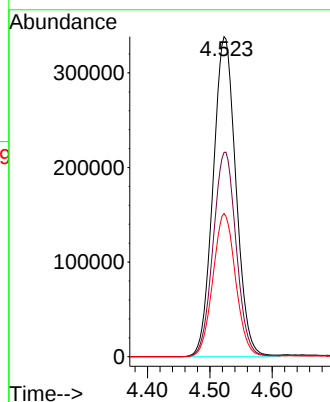
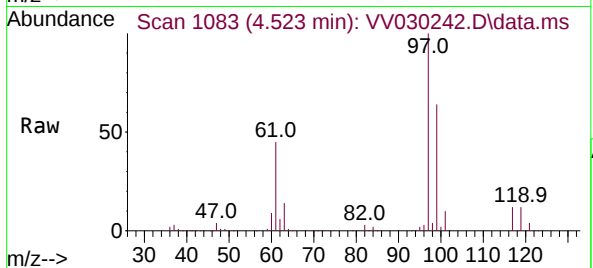
Tgt Ion: 97 Resp: 862045

Ion Ratio Lower Upper

97 100

99 64.5 51.3 76.9

61 44.6 31.5 47.3



#31

Carbon tetrachloride

Concen: 0.488 ug/L

RT: 4.745 min Scan# 1152

Delta R.T. 0.000 min

Lab File: VV030242.D

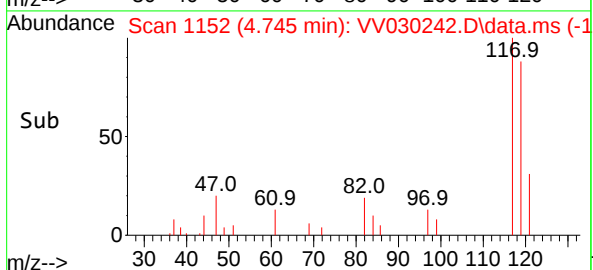
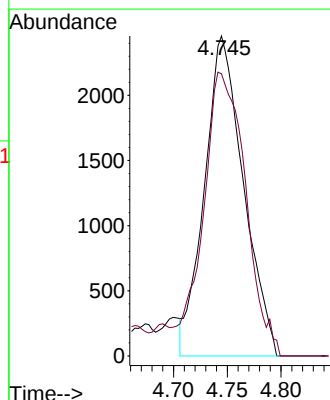
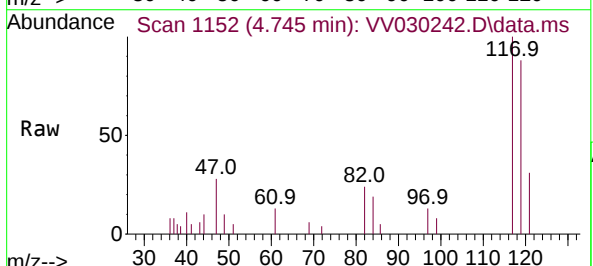
Acq: 17 Mar 2023 17:53

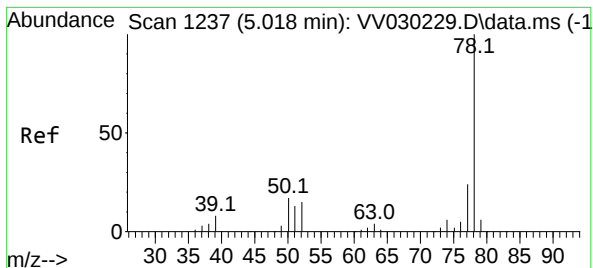
Tgt Ion: 117 Resp: 6180

Ion Ratio Lower Upper

117 100

119 96.7 76.1 114.1





#33

Benzene

Concen: 0.741 ug/L

RT: 5.021 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV030242.D

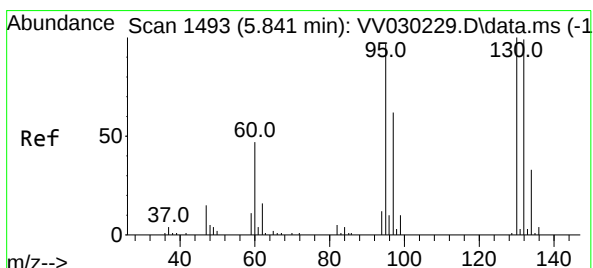
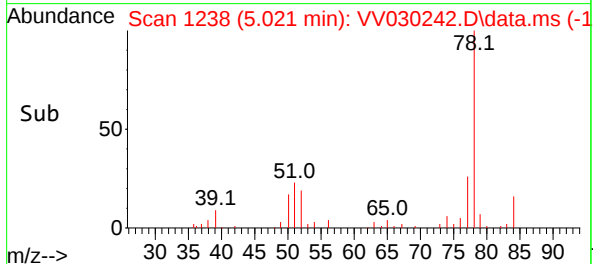
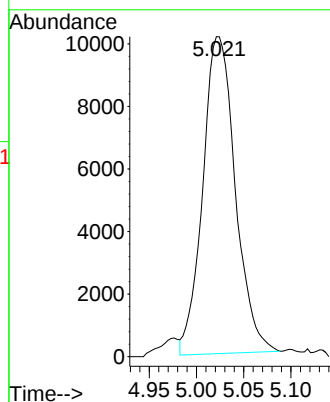
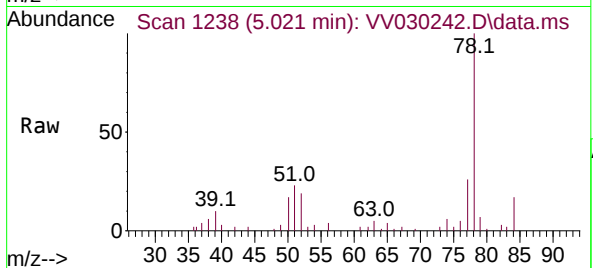
Acq: 17 Mar 2023 17:53

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 24309



#34

Trichloroethene

Concen: 433.524 ug/L

RT: 5.844 min Scan# 1494

Delta R.T. 0.003 min

Lab File: VV030242.D

Acq: 17 Mar 2023 17:53

Tgt Ion: 95 Resp: 3982986

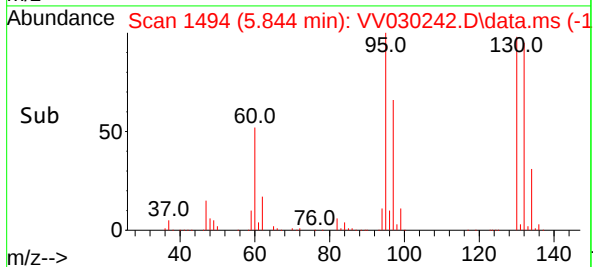
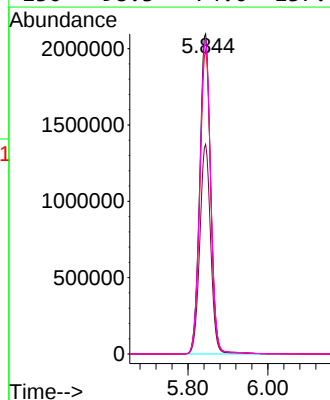
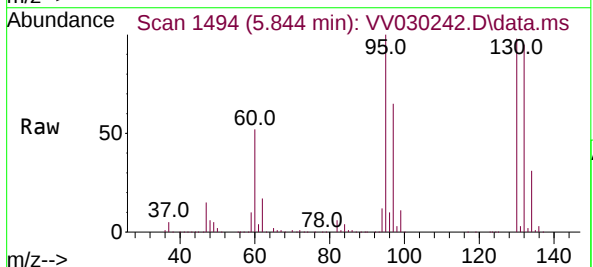
Ion Ratio Lower Upper

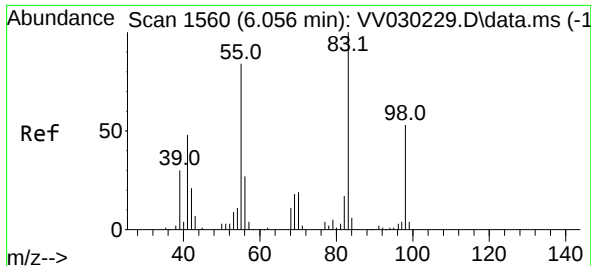
95 100

97 65.5 46.5 86.5

132 95.0 71.7 133.3

130 98.3 74.0 137.4





#35

Methylcyclohexane

Concen: 0.758 ug/L

RT: 6.002 min Scan# 1

Delta R.T. -0.055 min

Lab File: VV030242.D

Acq: 17 Mar 2023 17:53

Instrument :

MSVOA_V

ClientSampleId :

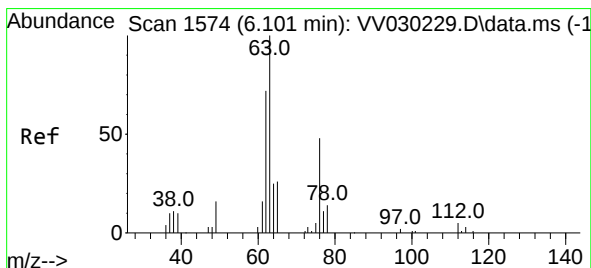
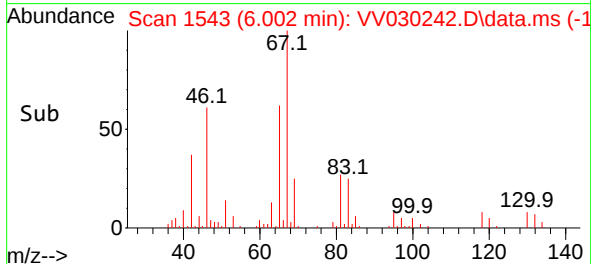
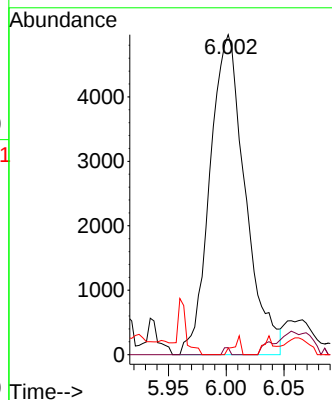
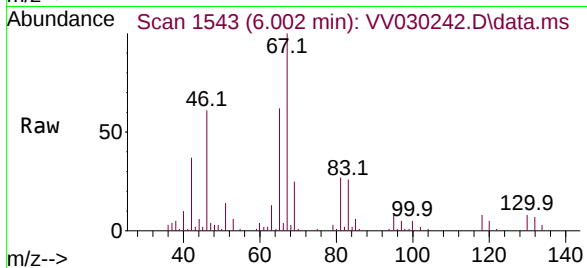
Tgt Ion: 83 Resp: 10535

Ion Ratio Lower Upper

83 100

55 0.4 57.6 86.4#

98 0.0 38.8 58.2#



#37

1,2-Dichloropropane

Concen: 0.632 ug/L

RT: 5.998 min Scan# 1542

Delta R.T. -0.103 min

Lab File: VV030242.D

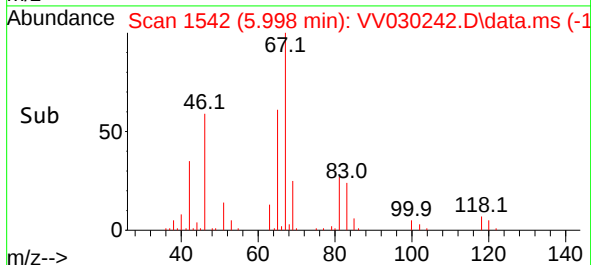
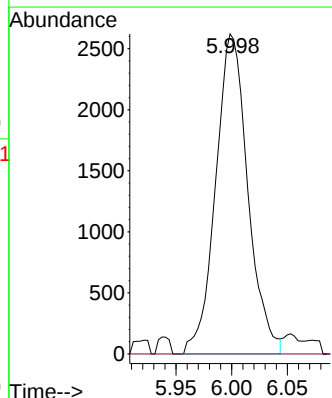
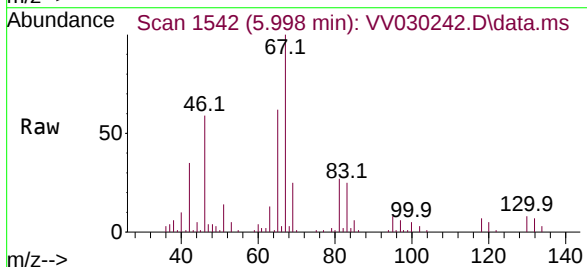
Acq: 17 Mar 2023 17:53

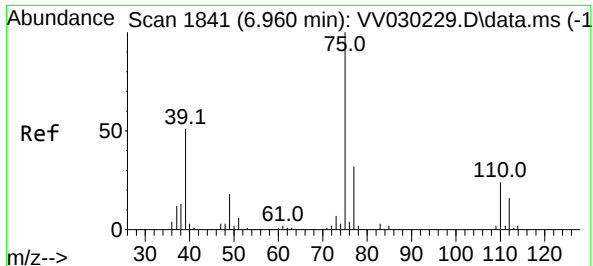
Tgt Ion: 63 Resp: 5273

Ion Ratio Lower Upper

63 100

112 0.8 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.112 ug/L

RT: 6.921 min Scan# 11

Delta R.T. -0.039 min

Lab File: VV030242.D

Acq: 17 Mar 2023 17:53

Instrument :

MSVOA_V

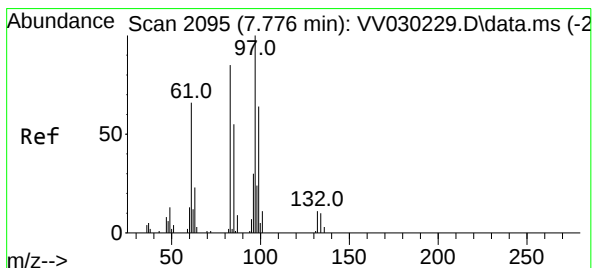
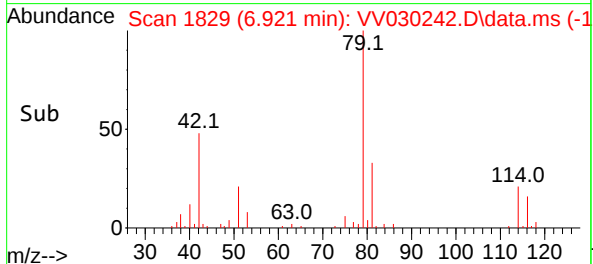
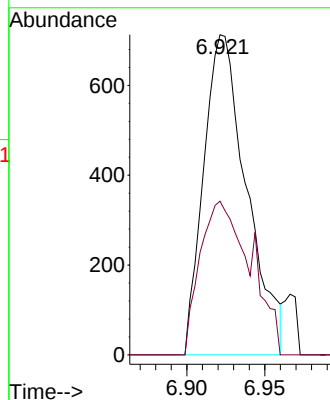
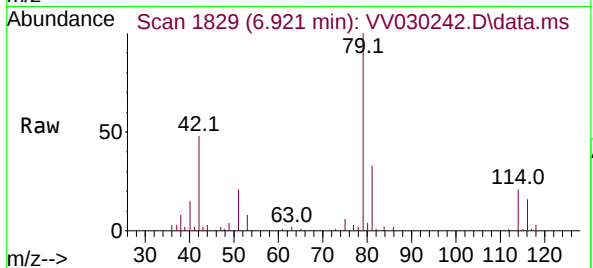
ClientSampleId :

Tgt Ion: 75 Resp: 1369

Ion Ratio Lower Upper

75 100

77 48.0 22.3 41.3#



#45

1,1,2-Trichloroethane

Concen: 47.597 ug/L

RT: 7.941 min Scan# 2146

Delta R.T. 0.164 min

Lab File: VV030242.D

Acq: 17 Mar 2023 17:53

Tgt Ion: 97 Resp: 284092

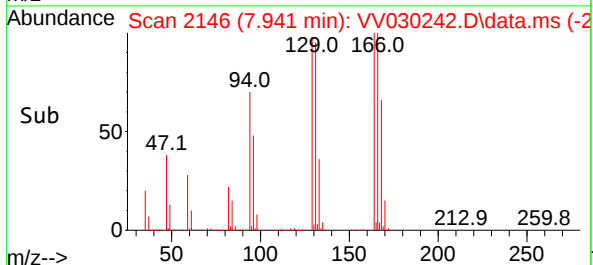
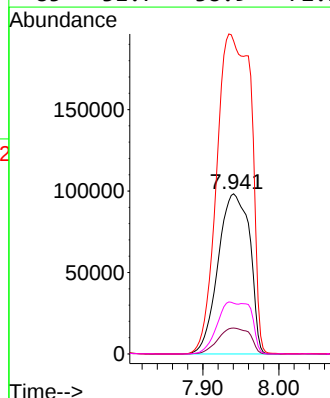
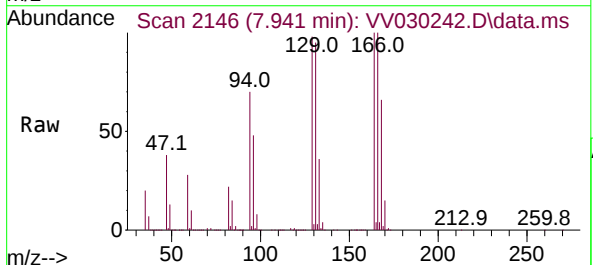
Ion Ratio Lower Upper

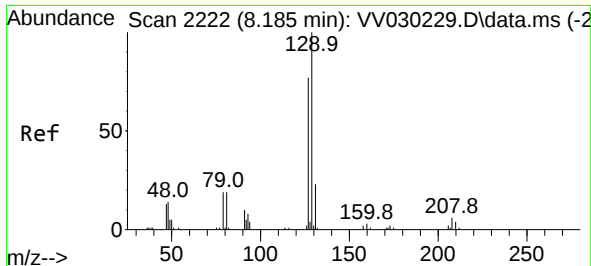
97 100

99 16.2 42.6 79.2#

83 195.4 57.7 107.3#

85 31.7 38.9 72.2#

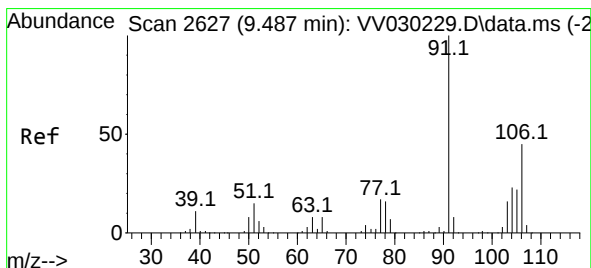
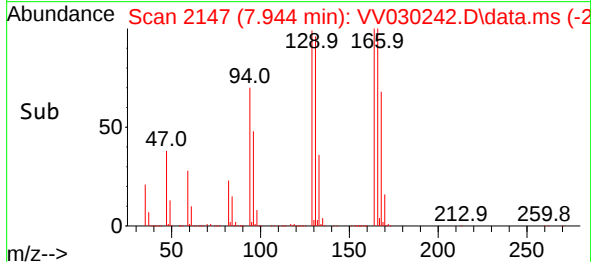
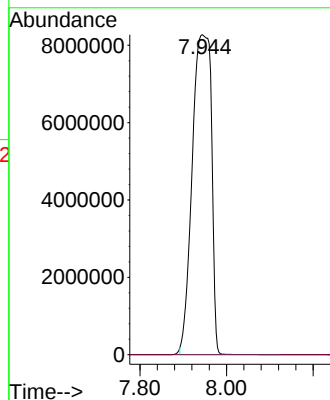
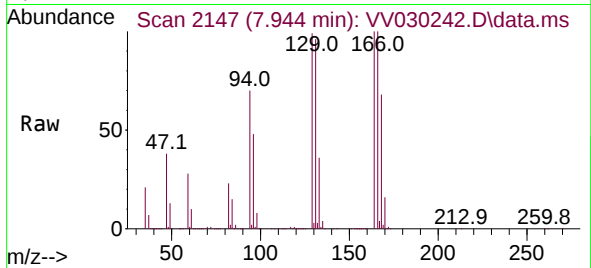




#49
Dibromochloromethane
Concen: 3656.643 ug/L
RT: 7.944 min Scan# 2147
Delta R.T. -0.241 min
Lab File: VV030242.D
Acq: 17 Mar 2023 17:53

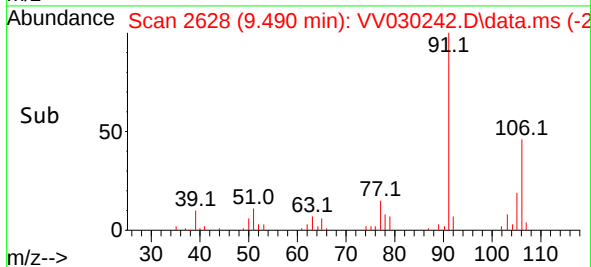
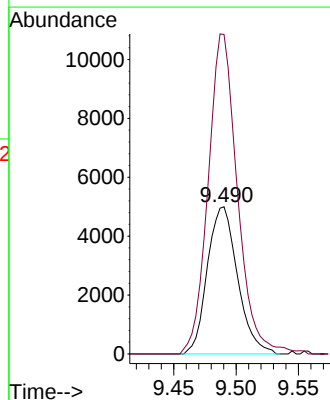
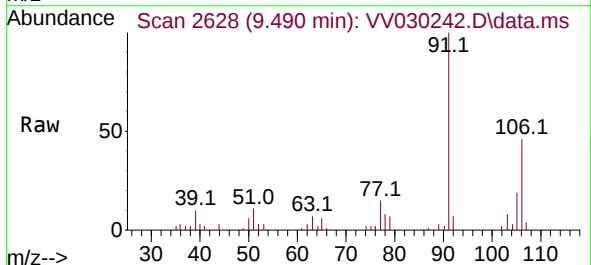
Instrument :
MSVOA_V
ClientSampleId :

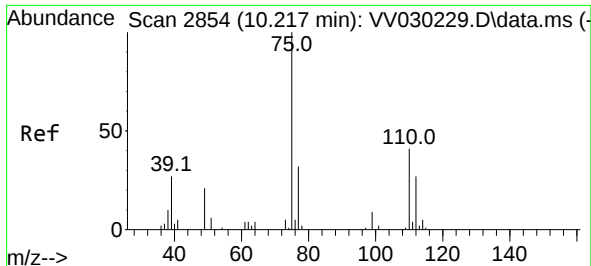
Tgt Ion:129 Resp:25539212
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.5#



#54
o-Xylene
Concen: 0.594 ug/L
RT: 9.490 min Scan# 2628
Delta R.T. 0.003 min
Lab File: VV030242.D
Acq: 17 Mar 2023 17:53

Tgt Ion:106 Resp: 8430
Ion Ratio Lower Upper
106 100
91 217.0 148.8 276.4

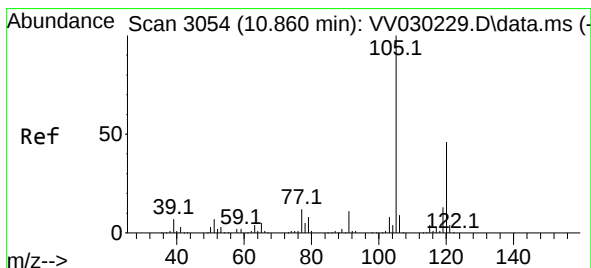
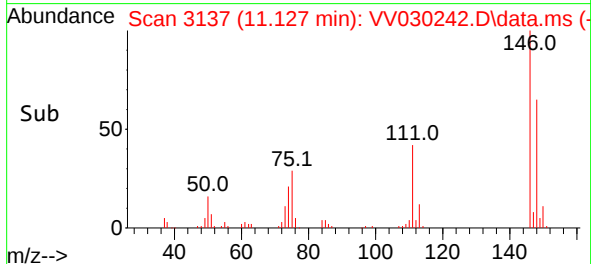
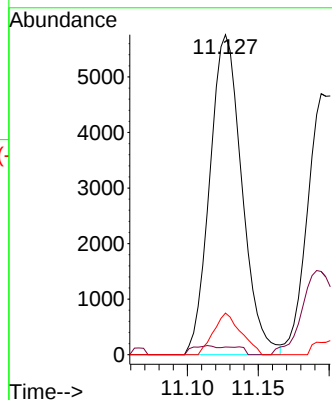
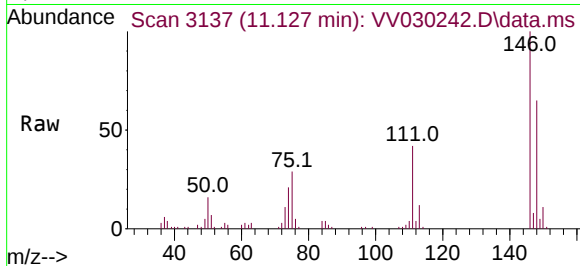




#61
 1,2,3-Trichloropropane
 Concen: 2.279 ug/L
 RT: 11.127 min Scan# 3137
 Delta R.T. 0.910 min
 Lab File: VV030242.D
 Acq: 17 Mar 2023 17:53

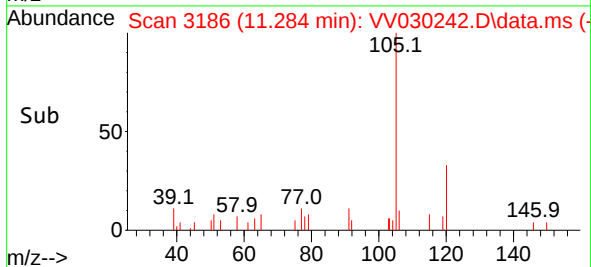
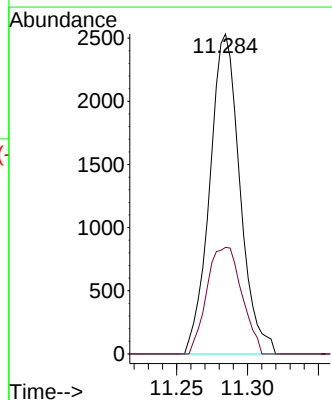
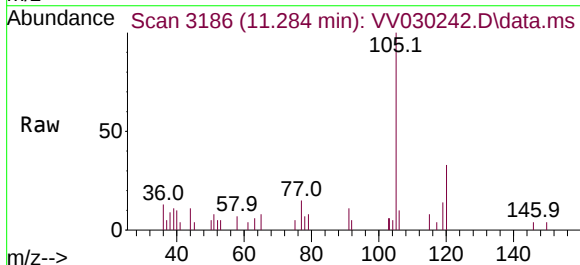
Instrument :
 MSVOA_V
 ClientSampleId :

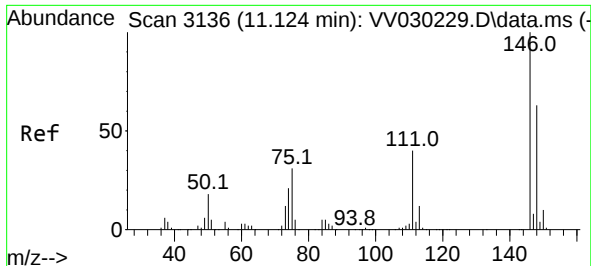
Tgt Ion: 75 Resp: 9073
 Ion Ratio Lower Upper
 75 100
 77 2.3 26.5 39.7#
 110 11.0 31.8 47.6#



#63
 1,2,4-Trimethylbenzene
 Concen: 0.131 ug/L
 RT: 11.284 min Scan# 3186
 Delta R.T. 0.425 min
 Lab File: VV030242.D
 Acq: 17 Mar 2023 17:53

Tgt Ion: 105 Resp: 3755
 Ion Ratio Lower Upper
 105 100
 120 38.5 36.2 54.4

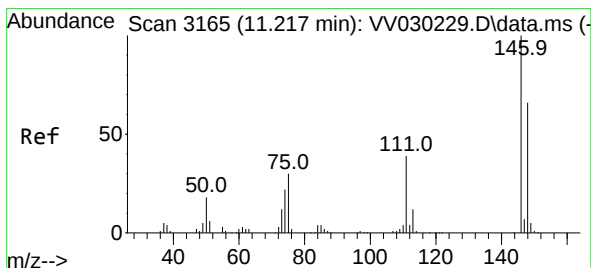
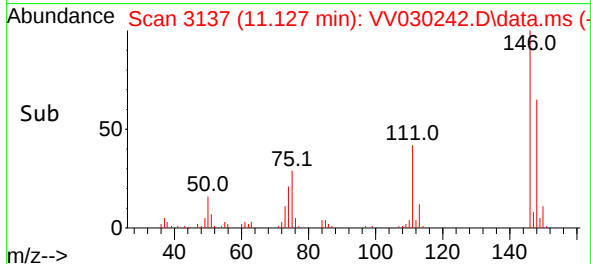
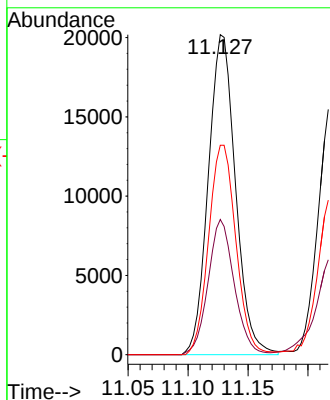
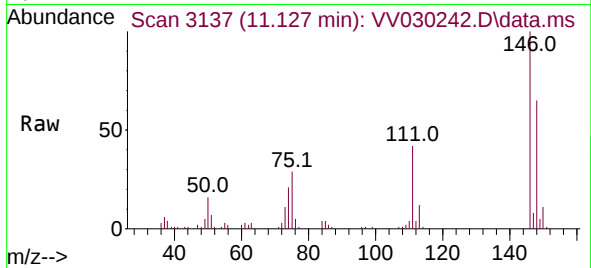




#64
 1,3-Dichlorobenzene
 Concen: 1.786 ug/L
 RT: 11.127 min Scan# 3137
 Delta R.T. 0.003 min
 Lab File: VV030242.D
 Acq: 17 Mar 2023 17:53

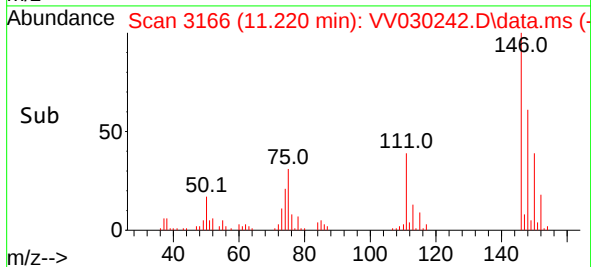
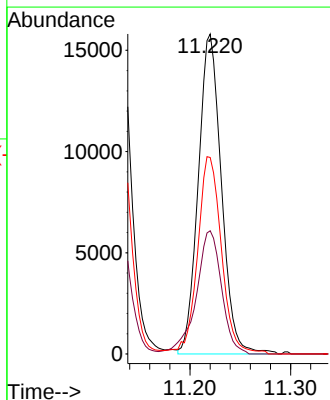
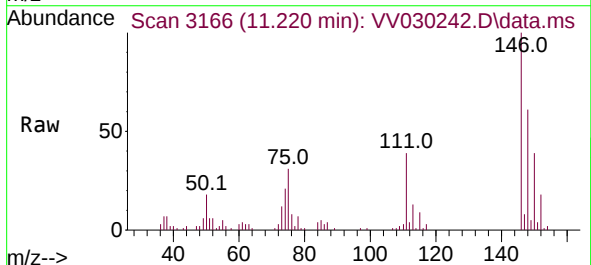
Instrument :
 MSVOA_V
 ClientSampleId :

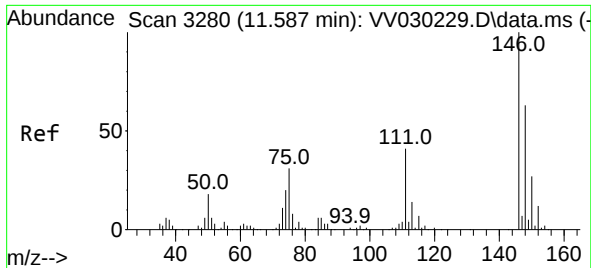
Tgt Ion:146 Resp: 31832
 Ion Ratio Lower Upper
 146 100
 111 42.2 27.7 51.5
 148 65.5 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 1.405 ug/L
 RT: 11.220 min Scan# 3166
 Delta R.T. 0.003 min
 Lab File: VV030242.D
 Acq: 17 Mar 2023 17:53

Tgt Ion:146 Resp: 25257
 Ion Ratio Lower Upper
 146 100
 111 38.5 27.4 51.0
 148 61.4 44.1 81.9

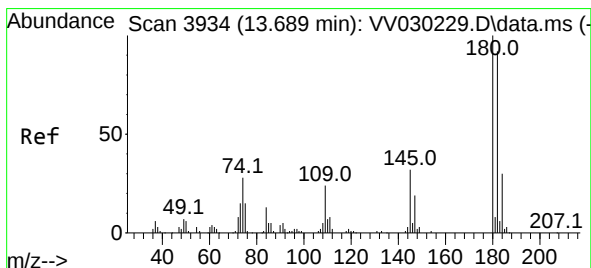
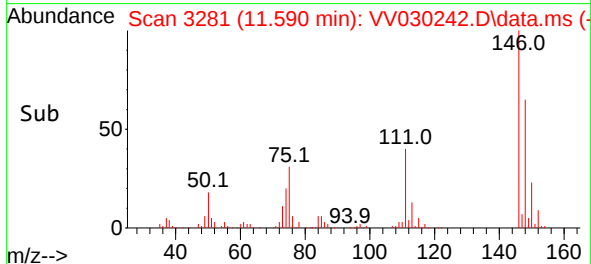
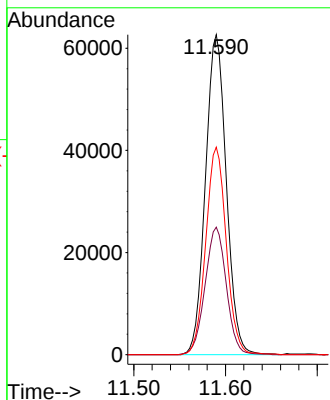
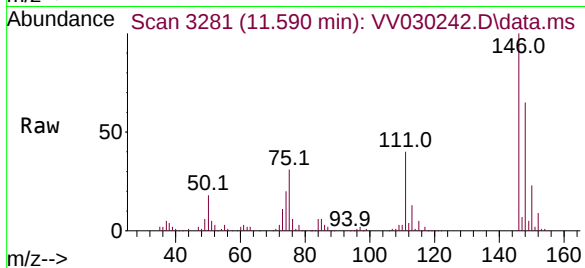




#67
1,2-Dichlorobenzene
Concen: 6.295 ug/L
RT: 11.590 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV030242.D
Acq: 17 Mar 2023 17:53

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:146 Resp: 99057
Ion Ratio Lower Upper
146 100
111 39.8 33.5 50.3
148 64.9 51.3 76.9



#72
1,2,3-Trichlorobenzene
Concen: 0.118 ug/L
RT: 13.689 min Scan# 3934
Delta R.T. 0.000 min
Lab File: VV030242.D
Acq: 17 Mar 2023 17:53

Tgt Ion:180 Resp: 1153
Ion Ratio Lower Upper
180 100
182 97.6 76.2 114.2
145 24.1 25.1 37.7#

