

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW010522\
 Data File : VW021741.D
 Acq On : 05 Jan 2022 19:21
 Operator : SY/VA
 Sample : M5342-05
 Misc : 3.30g/5.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-8-(0-2)

Quant Time: Jan 06 05:54:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W010522S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 05 14:56:42 2022
 Response via : Initial Calibration

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

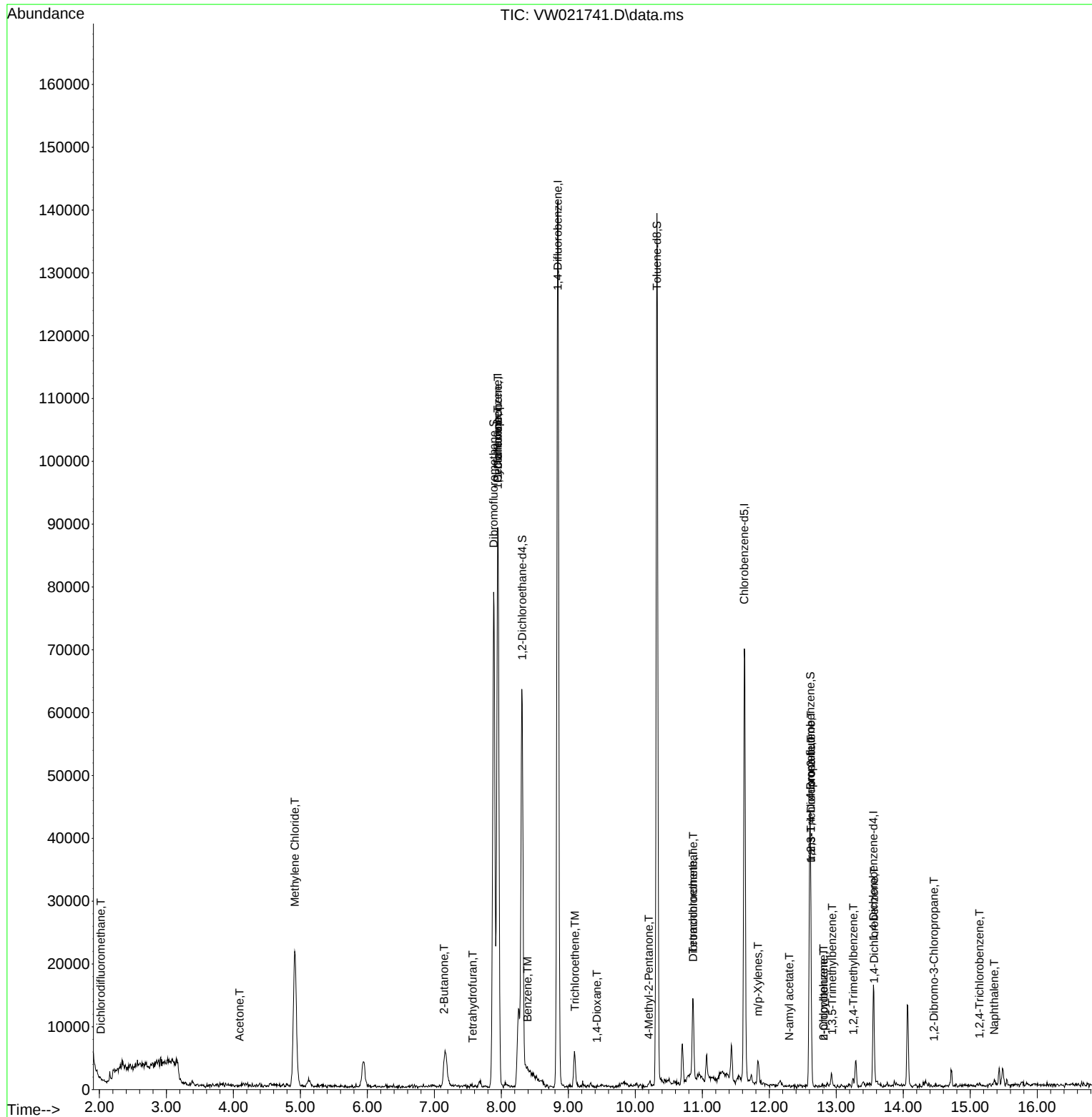
Internal Standards						
1) Pentafluorobenzene	7.945	168	68966	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.842	114	123312	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.628	117	41051	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.554	152	4285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.311	65	48629	80.004	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 160.000%			
35) Dibromofluoromethane	7.885	113	54597	71.138	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 142.280%			
50) Toluene-d8	10.323	98	92698	33.372	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 66.740%			
62) 4-Bromofluorobenzene	12.615	95	6828	6.622	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 13.240%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.020	85	19	6.536	ug/l #	41
11) Tert butyl alcohol	5.208	59	90	Below Cal	#	84
13) Acrolein	3.922	56	19	Below Cal	#	48
16) Acetone	4.093	43	144	1.255	ug/l #	44
20) Methylene Chloride	4.916	84	17945	17.036	ug/l	90
25) 2-Butanone	7.147	43	418	2.837	ug/l #	49
29) Tetrahydrofuran	7.574	42	228	2.624	ug/l #	69
31) Cyclohexane	7.945	56	1554	1.470	ug/l #	54
36) 1,1-Dichloropropene	7.952	75	5024	4.606	ug/l #	50
40) Benzene	8.390	78	5470	1.763	ug/l	99
44) Trichloroethene	9.098	130	2020	2.141	ug/l	86
49) 1,4-Dioxane	9.427	88	25	4.958	ug/l #	26
51) 4-Methyl-2-Pentanone	10.201	43	558	1.563	ug/l #	81
60) Dibromochloromethane	10.866	129	2440	3.548	ug/l #	11
64) Tetrachloroethene	10.860	164	2933	10.356	ug/l	90
68) m/p-Xylenes	11.829	106	1229	2.138	ug/l	92
74) N-amyl acetate	12.298	43	74	1.667	ug/l #	43
76) 1,2,3-Trichloropropane	12.621	75	3780	119.263	ug/l #	100
78) n-propylbenzene	12.810	91	477	1.377	ug/l #	68
79) 2-Chlorotoluene	12.810	91	477	2.432	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.938	105	435	1.741	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.621	75	3780	338.386	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.255	105	1022	4.179	ug/l	93
88) 1,4-Dichlorobenzene	13.566	146	158	1.097	ug/l #	50
92) 1,2-Dibromo-3-Chloropr...	14.456	75	23	3.380	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.139	180	155	1.937	ug/l #	81
95) Naphthalene	15.359	128	938	7.054	ug/l #	86

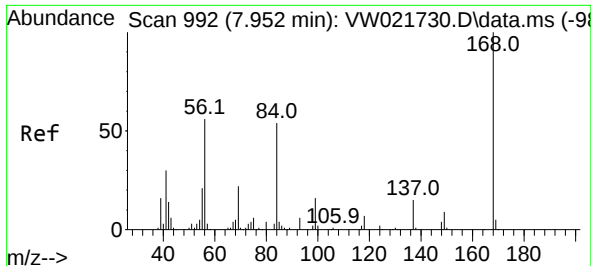
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW010522\
Data File : VW021741.D
Acq On : 05 Jan 2022 19:21
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Sample : M5342-05
Misc : 3.30g/5.0mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

Quant Time: Jan 06 05:54:00 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W010522S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 05 14:56:42 2022
Response via : Initial Calibration

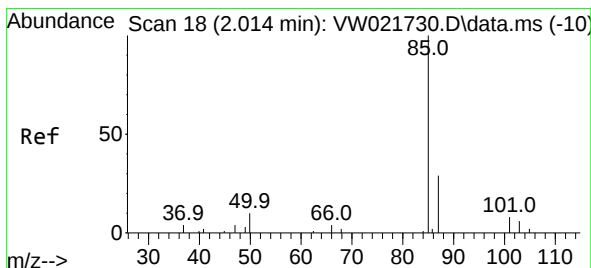
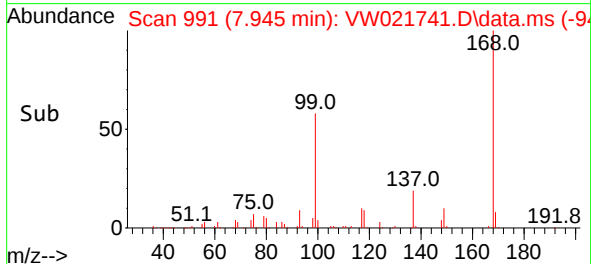
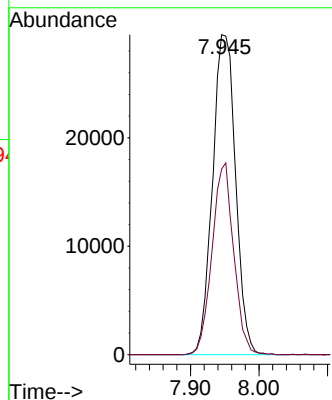
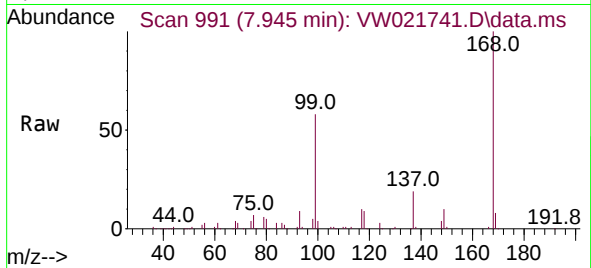




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.945 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

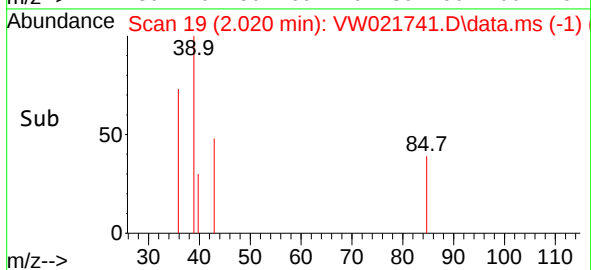
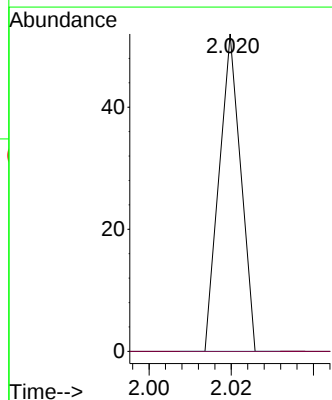
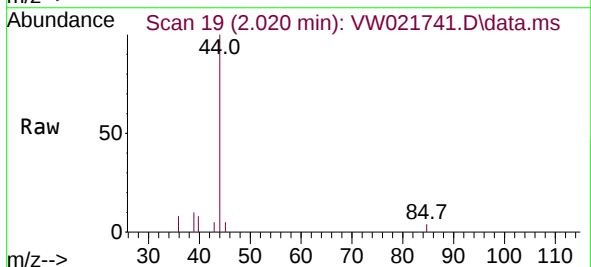
Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

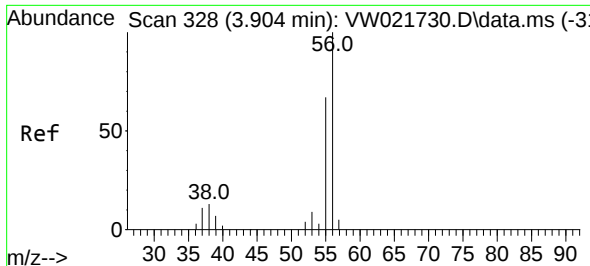
Tgt Ion:168 Resp: 68966
Ion Ratio Lower Upper
168 100
99 58.0 41.6 62.4



#2
Dichlorodifluoromethane
Concen: 6.536 ug/l
RT: 2.020 min Scan# 19
Delta R.T. 0.013 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 85 Resp: 19
Ion Ratio Lower Upper
85 100
87 0.0 16.8 50.3#

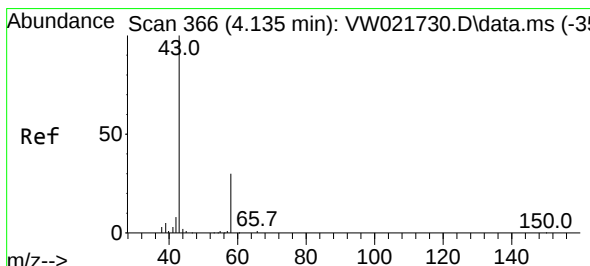
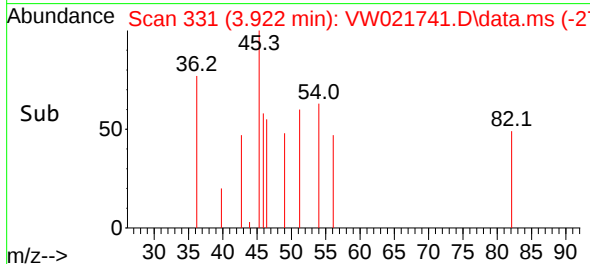
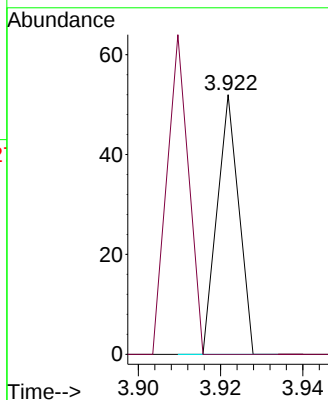
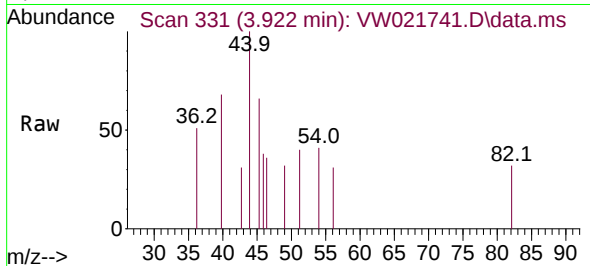




#13
Acrolein
Concen: Below Cal
RT: 3.922 min Scan# 31
Delta R.T. 0.031 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

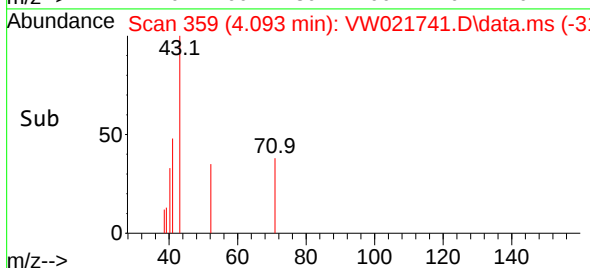
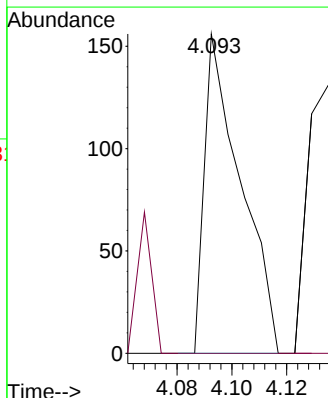
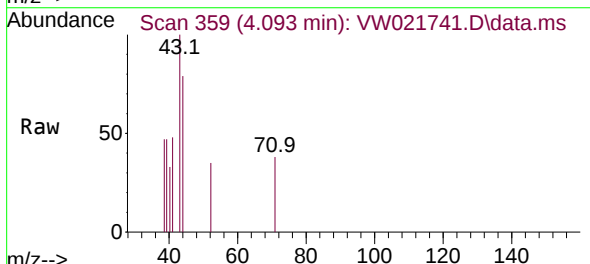
Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

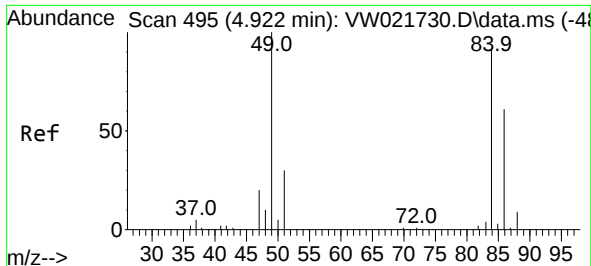
Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
55 121.1 61.2 91.8#



#16
Acetone
Concen: 1.255 ug/l
RT: 4.093 min Scan# 359
Delta R.T. -0.030 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 43 Resp: 144
Ion Ratio Lower Upper
43 100
58 0.0 24.2 36.2#



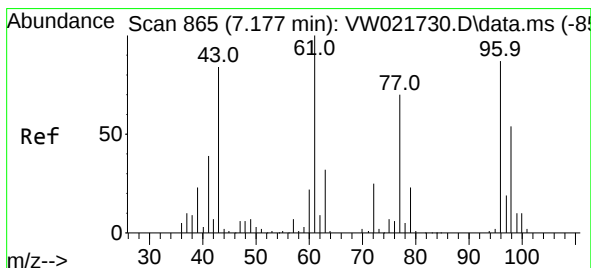
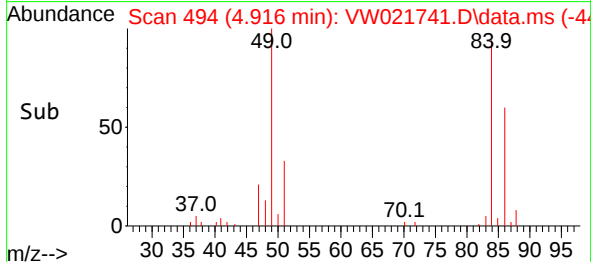
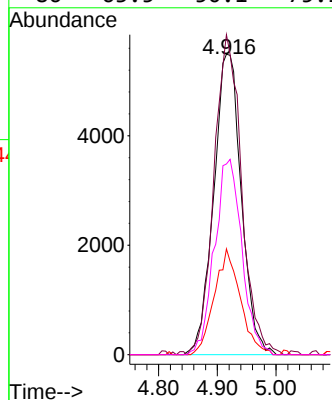
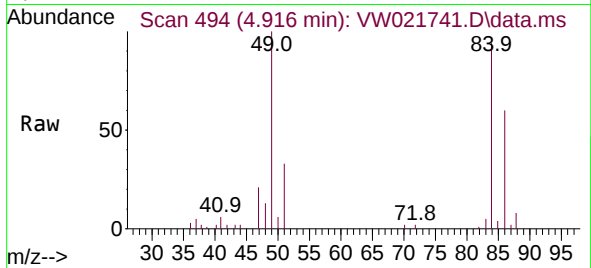


#20
Methylene Chloride
Concen: 17.036 ug/l
RT: 4.916 min Scan# 491
Delta R.T. 0.007 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

Tgt Ion: 84 Resp: 17945

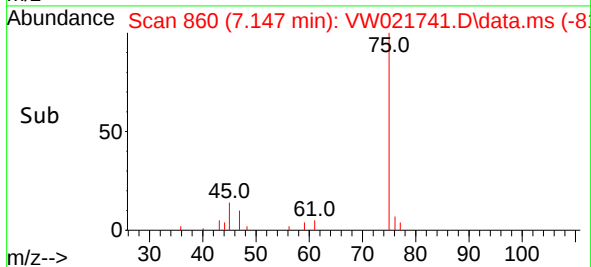
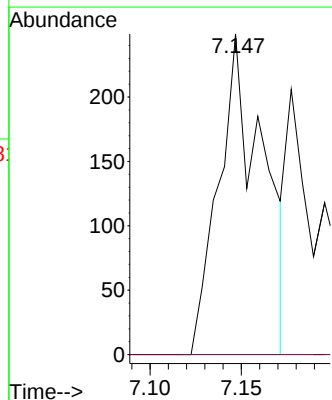
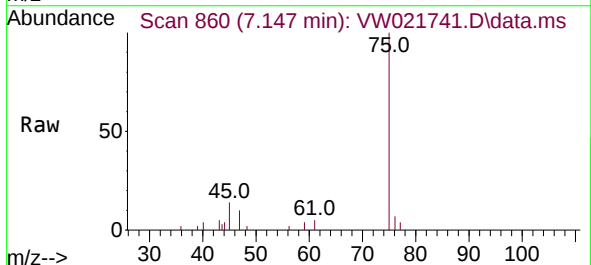
Ion	Ratio	Lower	Upper
84	100		
49	105.5	99.1	148.7
51	35.2	28.8	43.2
86	63.5	50.1	75.1

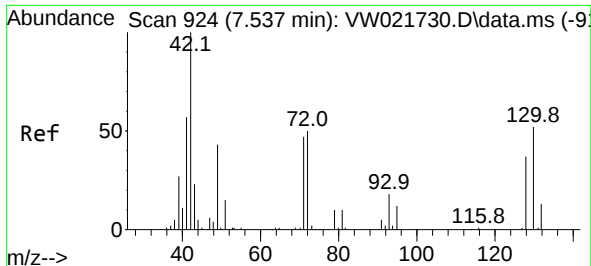


#25
2-Butanone
Concen: 2.837 ug/l
RT: 7.147 min Scan# 860
Delta R.T. -0.024 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 43 Resp: 418

Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.7	31.1#





#29

Tetrahydrofuran

Concen: 2.624 ug/l

RT: 7.574 min Scan# 91

Delta R.T. 0.037 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

Instrument :

MSVOA_W

ClientSampleId :

SB-8-(0-2)

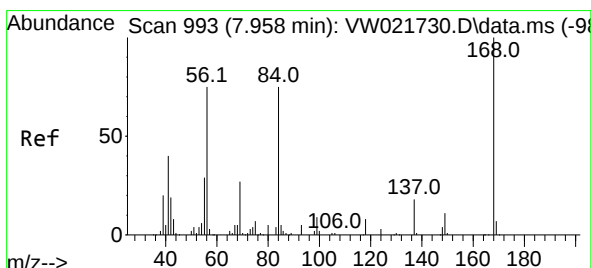
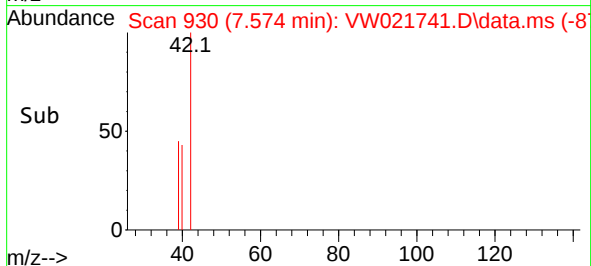
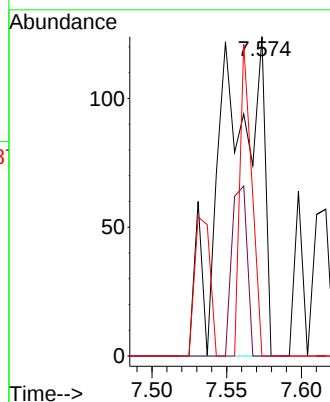
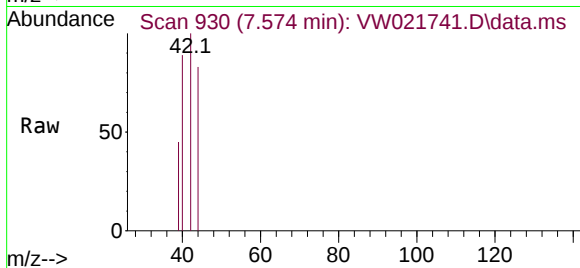
Tgt Ion: 42 Resp: 228

Ion Ratio Lower Upper

42 100

72 20.6 37.4 56.0#

71 29.4 34.7 52.1#



#31

Cyclohexane

Concen: 1.470 ug/l

RT: 7.945 min Scan# 991

Delta R.T. -0.012 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

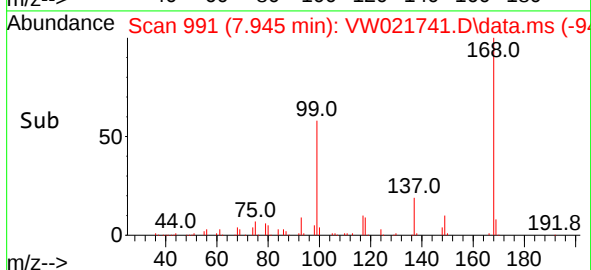
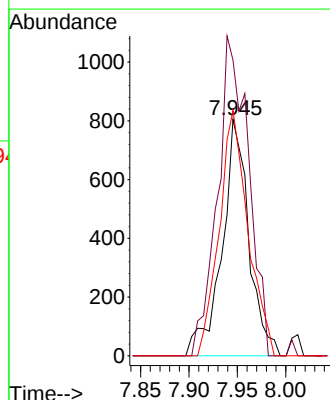
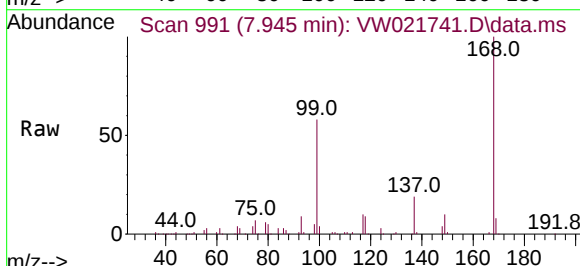
Tgt Ion: 56 Resp: 1554

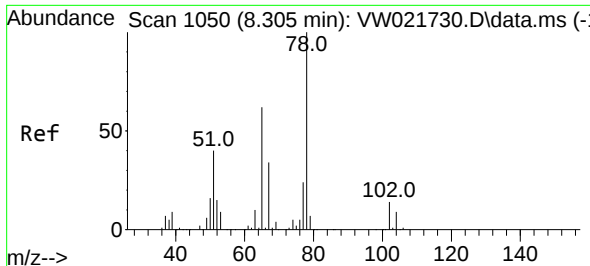
Ion Ratio Lower Upper

56 100

69 125.0 28.7 43.1#

84 103.7 77.6 116.4





#33

1,2-Dichloroethane-d4

Concen: 80.004 ug/l

RT: 8.311 min Scan# 1051

Delta R.T. 0.006 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

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MSVOA_W

ClientSampleId :

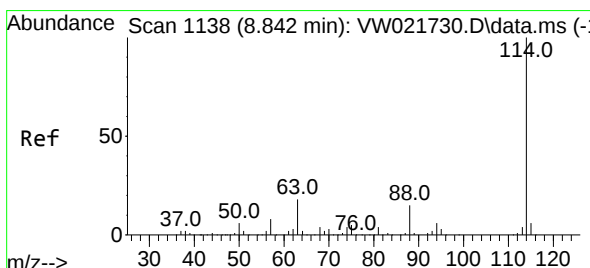
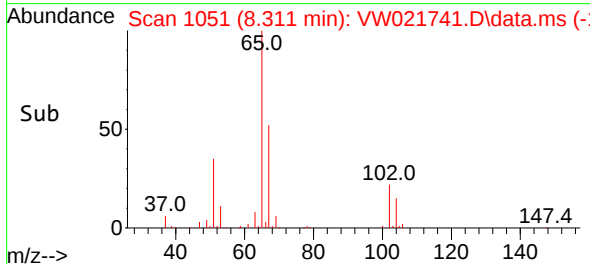
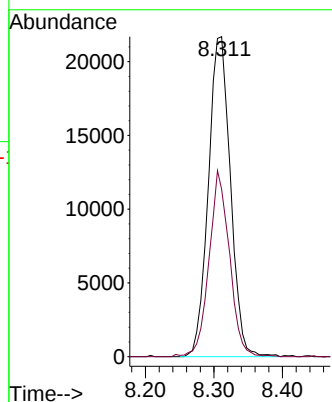
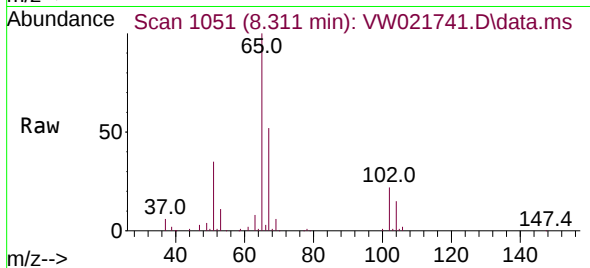
SB-8-(0-2)

Tgt Ion: 65 Resp: 48629

Ion Ratio Lower Upper

65 100

67 53.9 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.842 min Scan# 1138

Delta R.T. 0.001 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

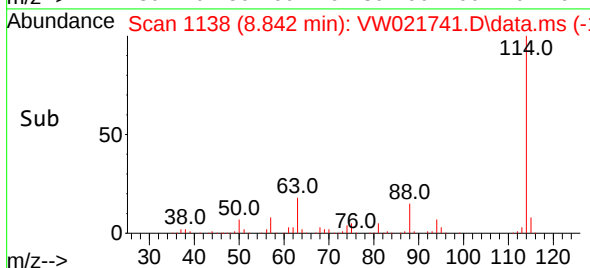
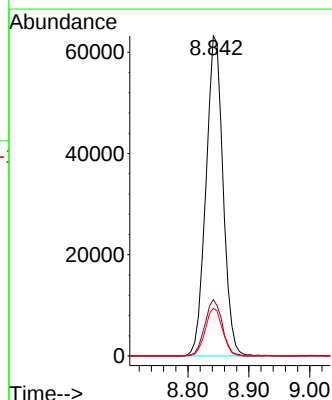
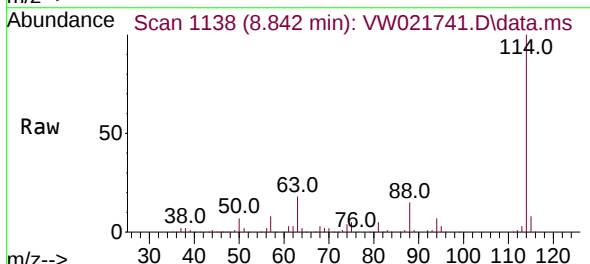
Tgt Ion: 114 Resp: 123312

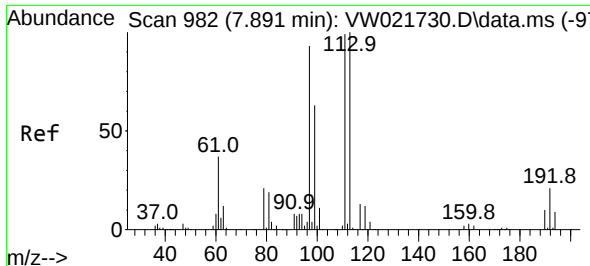
Ion Ratio Lower Upper

114 100

63 17.6 0.0 37.2

88 14.9 0.0 28.8

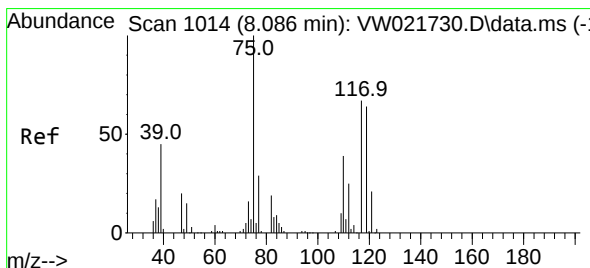
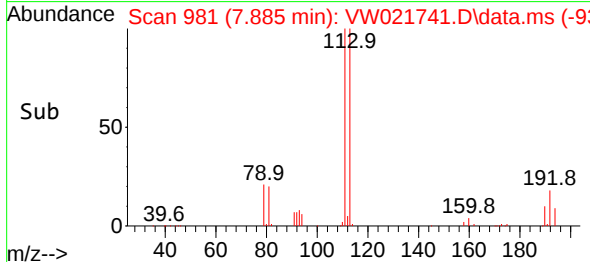
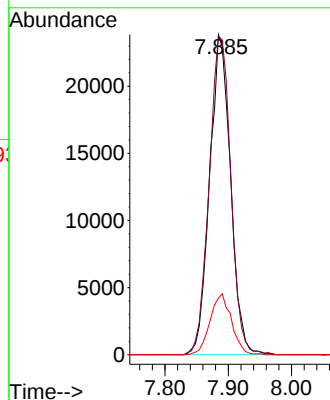
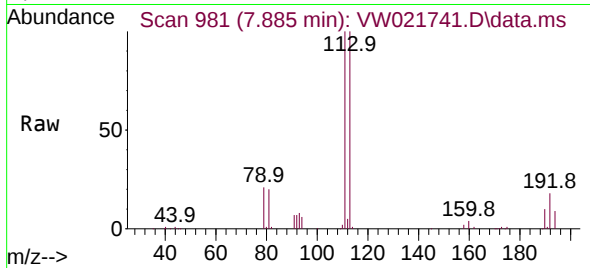




#35
Dibromofluoromethane
Concen: 71.138 ug/l
RT: 7.885 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

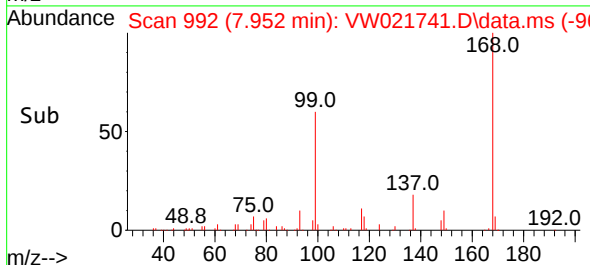
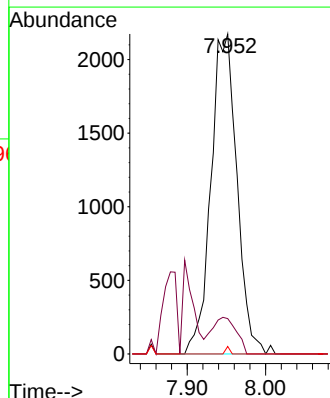
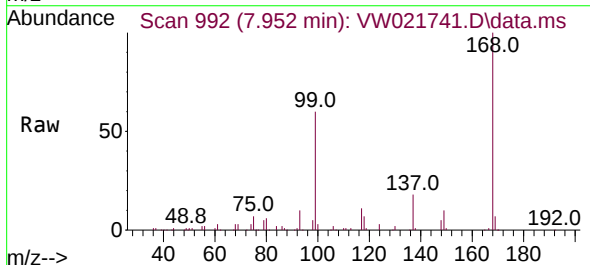
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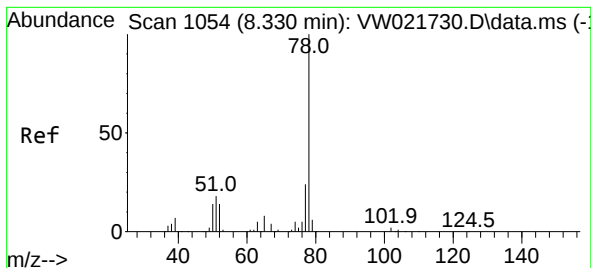
Tgt Ion:113 Resp: 54597
Ion Ratio Lower Upper
113 100
111 103.2 81.2 121.8
192 19.5 16.8 25.2



#36
1,1-Dichloropropene
Concen: 4.606 ug/l
RT: 7.952 min Scan# 992
Delta R.T. -0.134 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 75 Resp: 5024
Ion Ratio Lower Upper
75 100
110 10.8 19.1 57.5#
77 0.4 24.8 37.2#





#40

Benzene

Concen: 1.763 ug/l

RT: 8.390 min Scan# 1180

Delta R.T. 0.067 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

Instrument :

MSVOA_W

ClientSampleId :

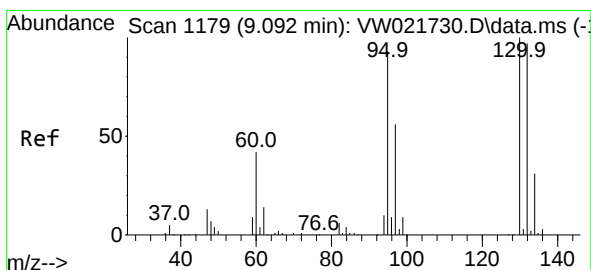
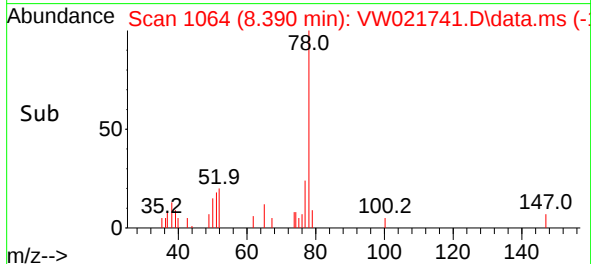
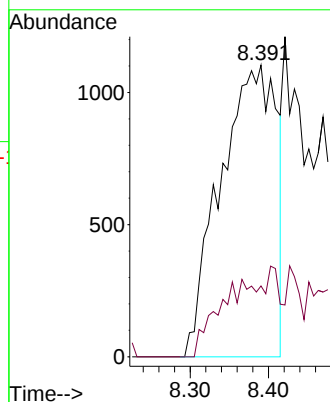
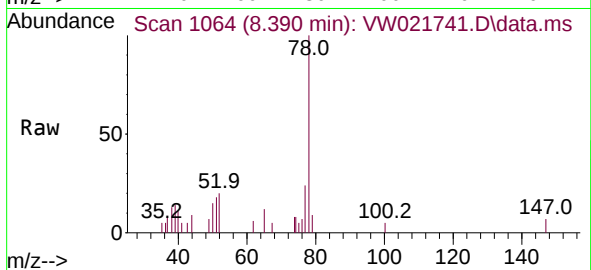
SB-8-(0-2)

Tgt Ion: 78 Resp: 5470

Ion Ratio Lower Upper

78 100

77 24.3 20.0 30.0



#44

Trichloroethene

Concen: 2.141 ug/l

RT: 9.098 min Scan# 1180

Delta R.T. 0.007 min

Lab File: VW021741.D

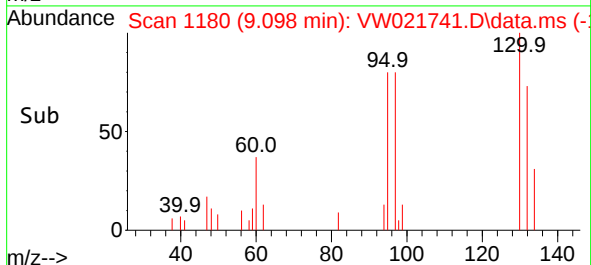
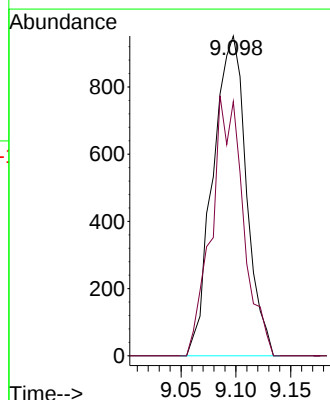
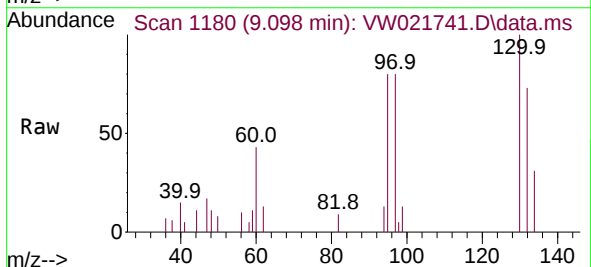
Acq: 05 Jan 2022 19:21

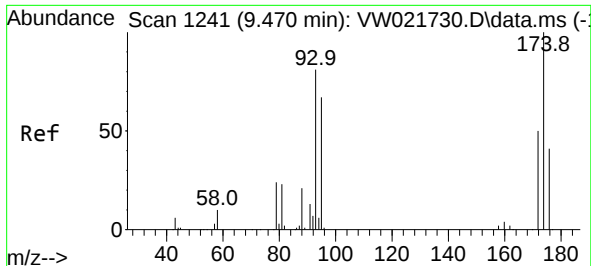
Tgt Ion: 130 Resp: 2020

Ion Ratio Lower Upper

130 100

95 79.5 0.0 186.6





#49

1,4-Dioxane

Concen: 4.958 ug/l

RT: 9.427 min Scan# 11

Delta R.T. -0.024 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

Instrument :

MSVOA_W

ClientSampleId :

SB-8-(0-2)

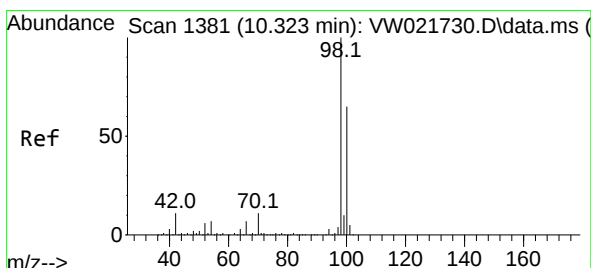
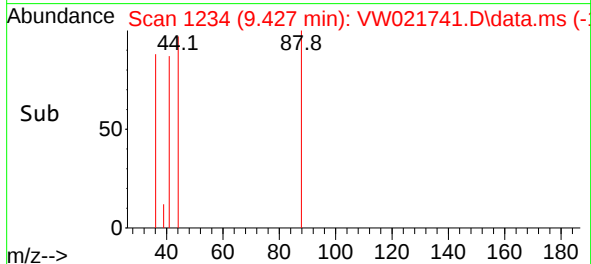
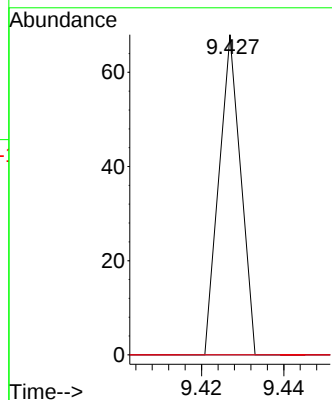
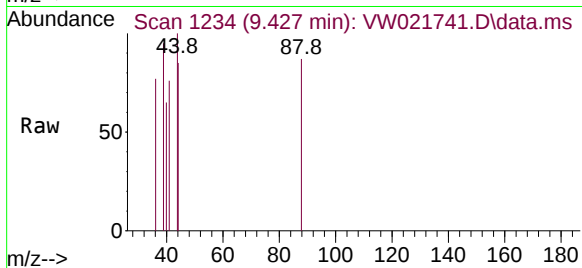
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 0.0 51.8 77.8#



#50

Toluene-d8

Concen: 33.372 ug/l

RT: 10.323 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VW021741.D

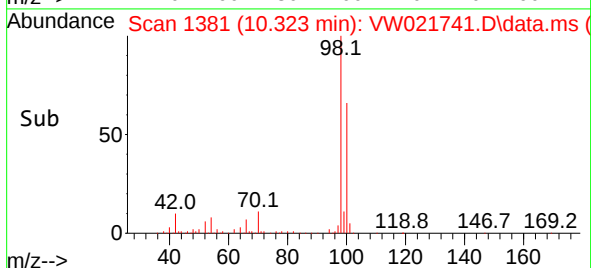
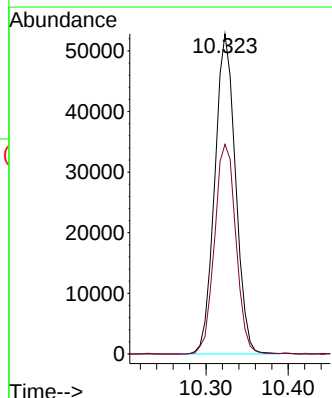
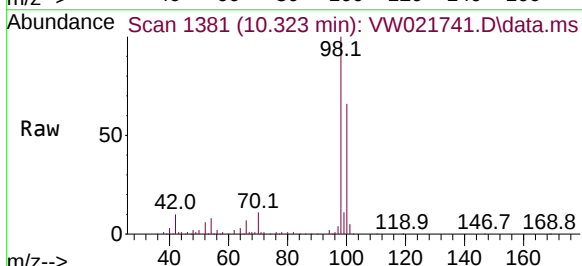
Acq: 05 Jan 2022 19:21

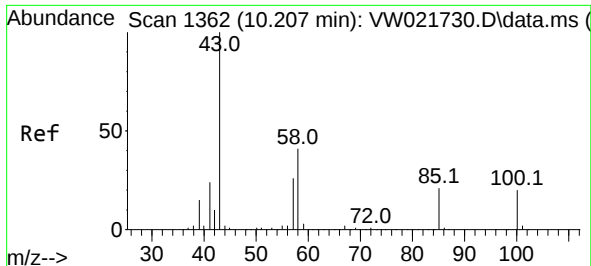
Tgt Ion: 98 Resp: 92698

Ion Ratio Lower Upper

98 100

100 67.4 52.6 79.0

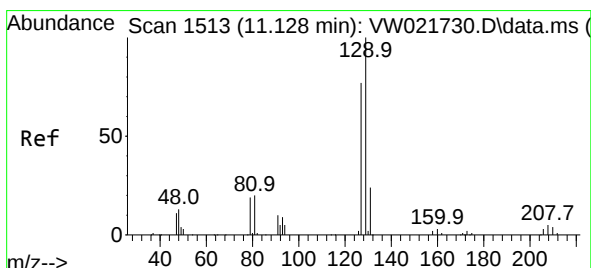
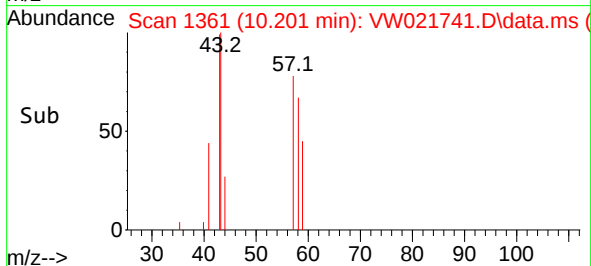
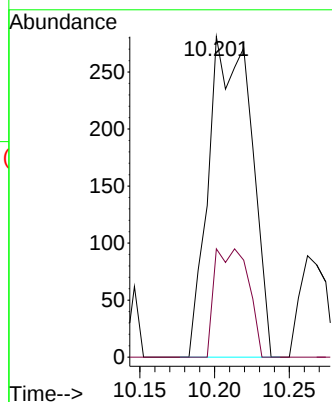
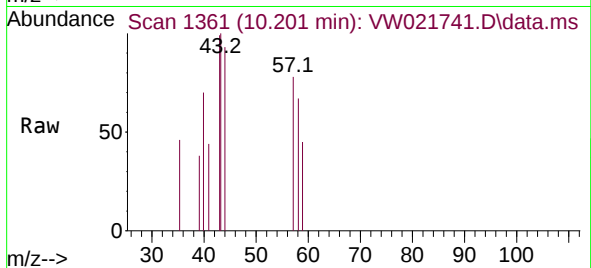




#51
4-Methyl-2-Pentanone
Concen: 1.563 ug/l
RT: 10.201 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

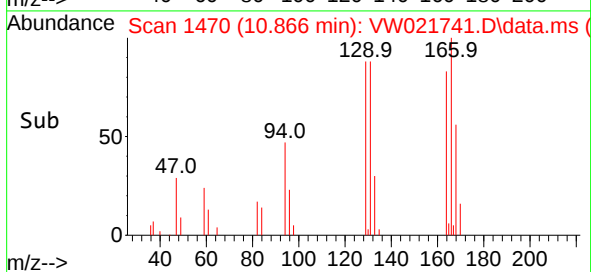
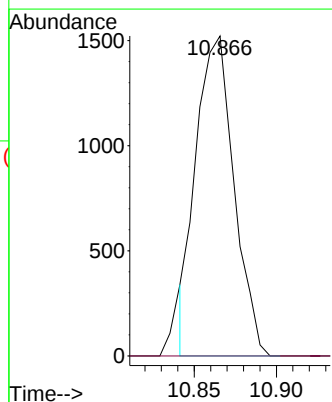
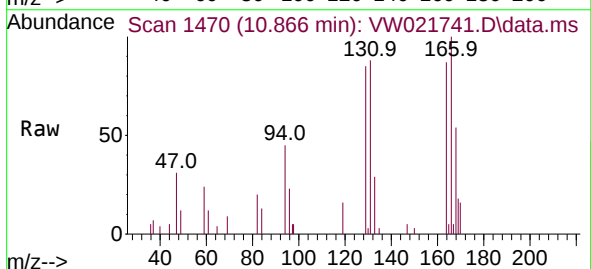
Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

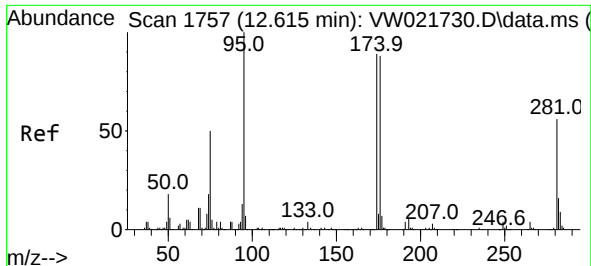
Tgt Ion: 43 Resp: 558
Ion Ratio Lower Upper
43 100
58 26.9 30.9 46.3#



#60
Dibromochloromethane
Concen: 3.548 ug/l
RT: 10.866 min Scan# 1470
Delta R.T. -0.262 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 129 Resp: 2440
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.1#

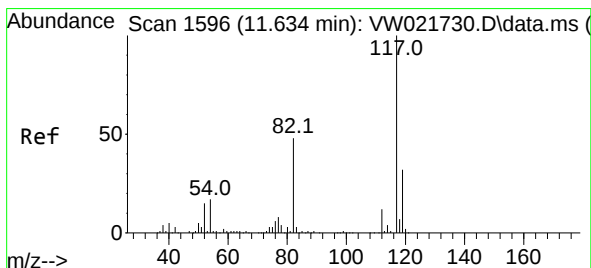
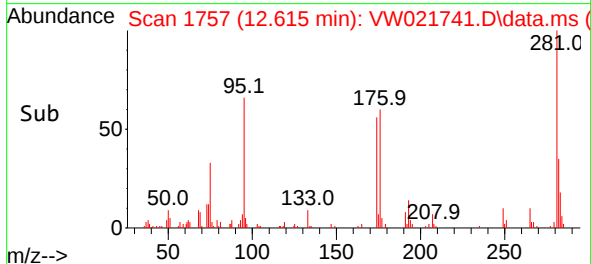
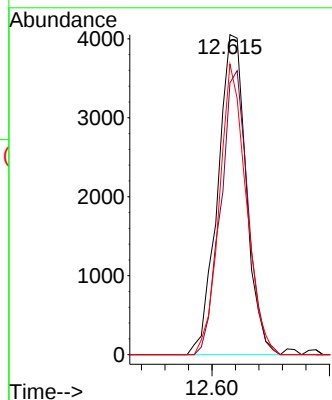
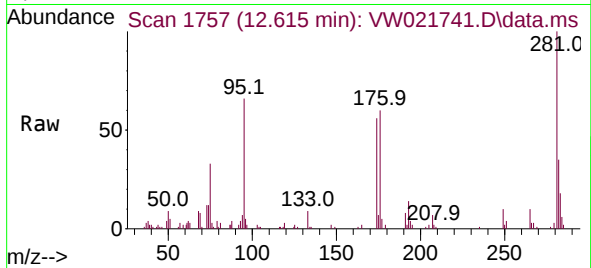




#62
4-Bromofluorobenzene
Concen: 6.622 ug/l
RT: 12.615 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

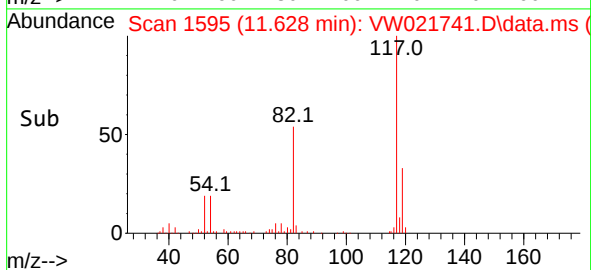
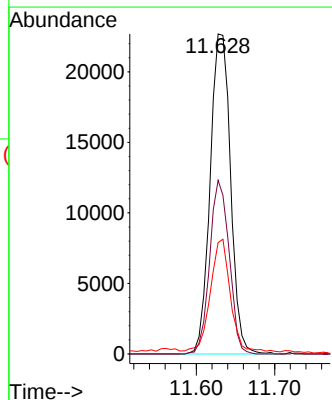
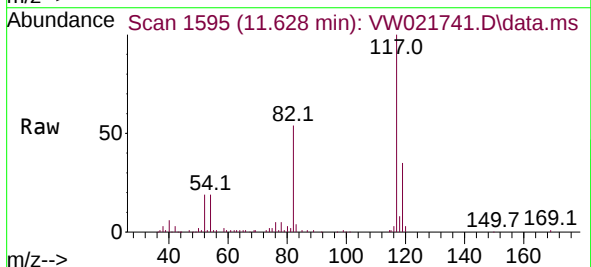
Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

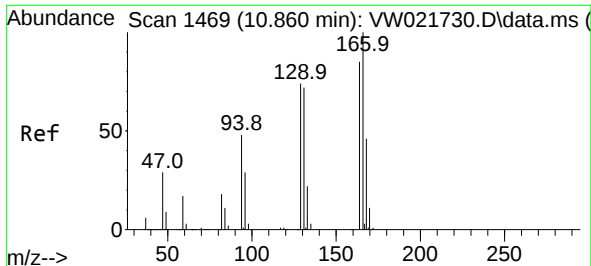
Tgt Ion: 95 Resp: 6828
Ion Ratio Lower Upper
95 100
174 84.8 0.0 171.2
176 85.2 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.628 min Scan# 1595
Delta R.T. -0.000 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 117 Resp: 41051
Ion Ratio Lower Upper
117 100
82 54.3 41.4 62.2
119 34.2 27.2 40.8

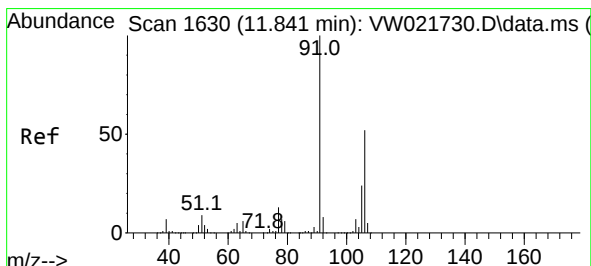
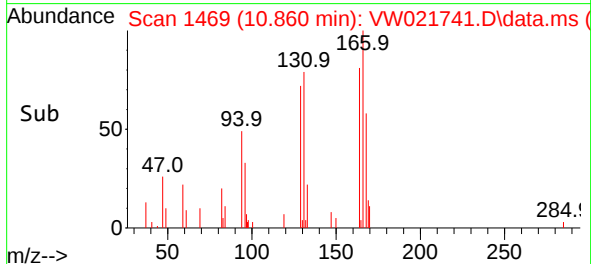
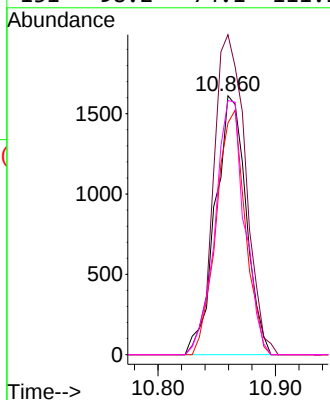
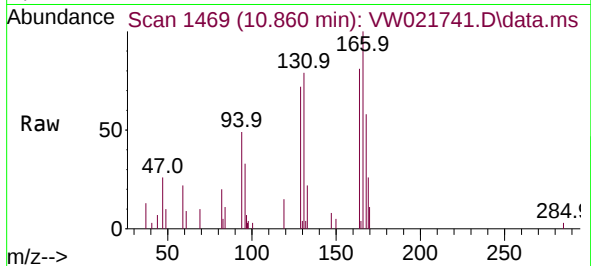




#64
Tetrachloroethene
Concen: 10.356 ug/l
RT: 10.860 min Scan# 1469
Delta R.T. 0.001 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

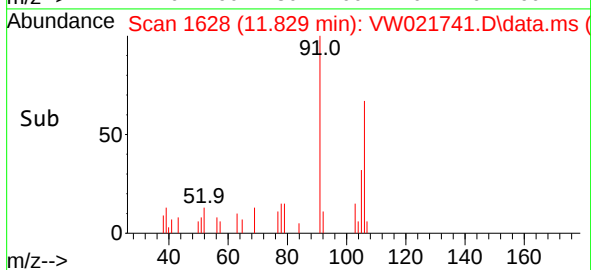
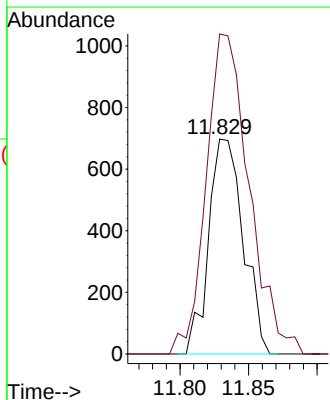
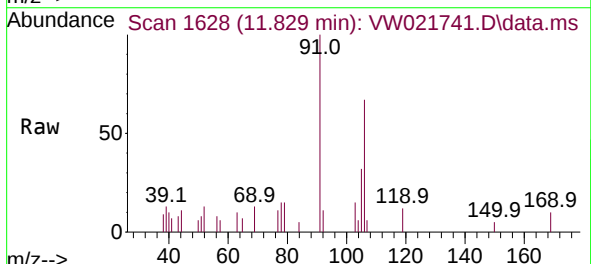
Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

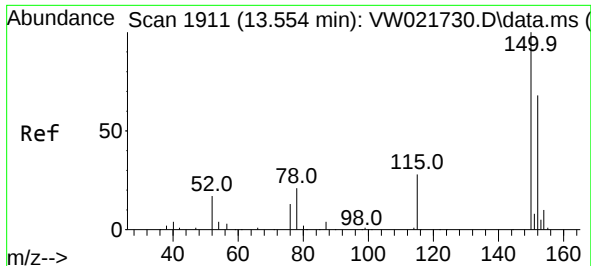
Tgt Ion:	164	Resp:	2933
Ion	Ratio	Lower	Upper
164	100		
166	123.6	114.4	171.6
129	89.5	68.3	102.5
131	98.2	74.1	111.1



#68
m/p-Xylenes
Concen: 2.138 ug/l
RT: 11.829 min Scan# 1628
Delta R.T. -0.006 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion:	106	Resp:	1229
Ion	Ratio	Lower	Upper
106	100		
91	184.5	157.8	236.8

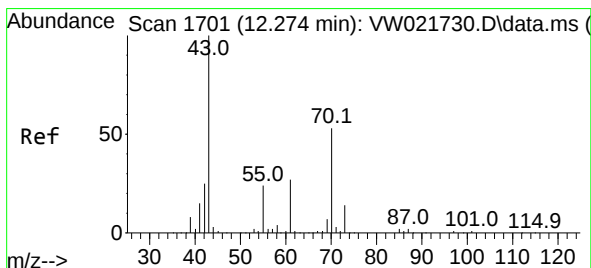
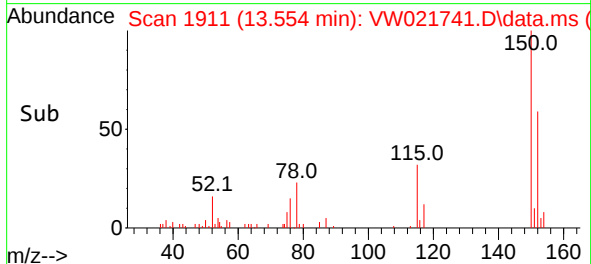
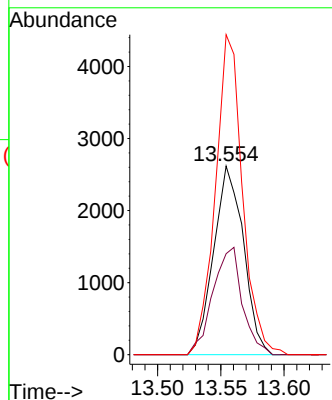
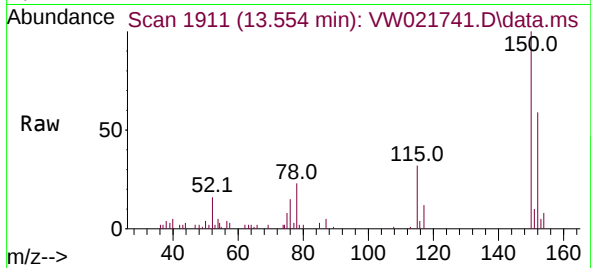




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.554 min Scan# 1911
Delta R.T. 0.000 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

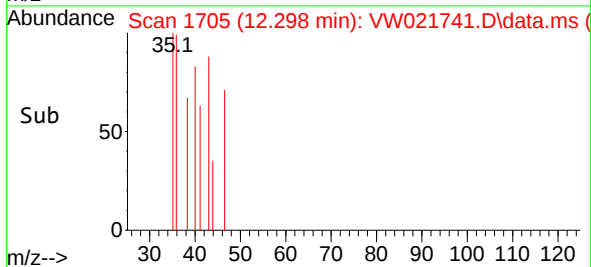
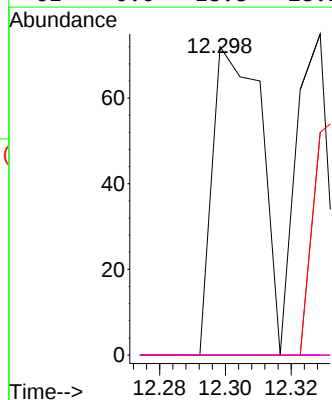
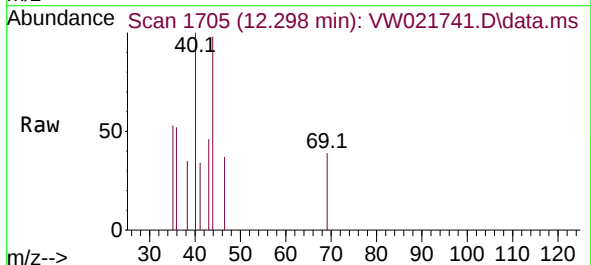
Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

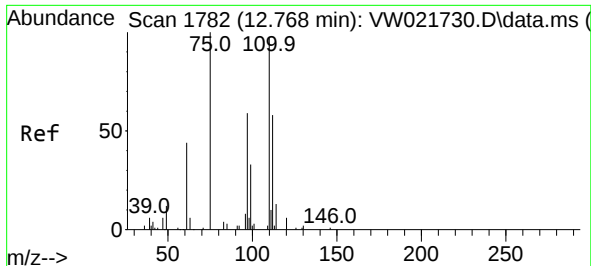
Tgt Ion:152 Resp: 4285
Ion Ratio Lower Upper
152 100
115 56.3 27.8 83.3
150 154.6 0.0 348.4



#74
N-ethyl acetate
Concen: 1.667 ug/l
RT: 12.298 min Scan# 1705
Delta R.T. 0.030 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 43 Resp: 74
Ion Ratio Lower Upper
43 100
70 0.0 33.7 50.5#
55 0.0 18.5 27.7#
61 0.0 18.8 28.2#

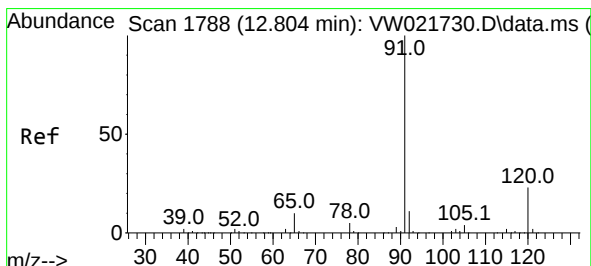
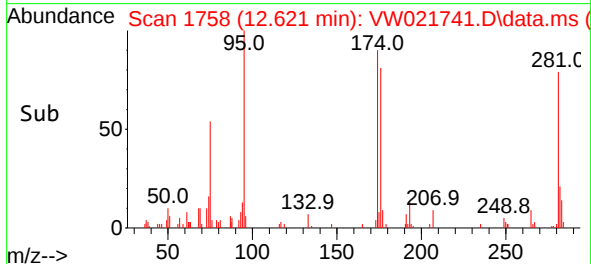
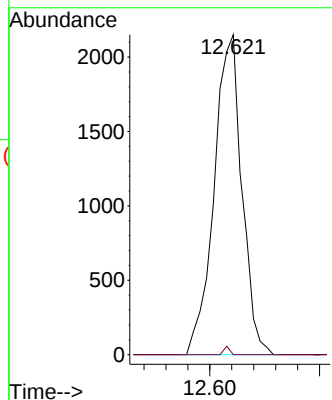
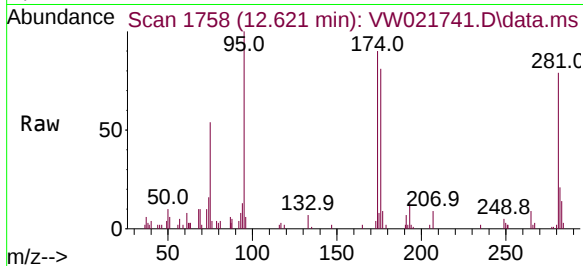




#76
1,2,3-Trichloropropane
Concen: 119.263 ug/l
RT: 12.621 min Scan# 1758
Delta R.T. -0.147 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

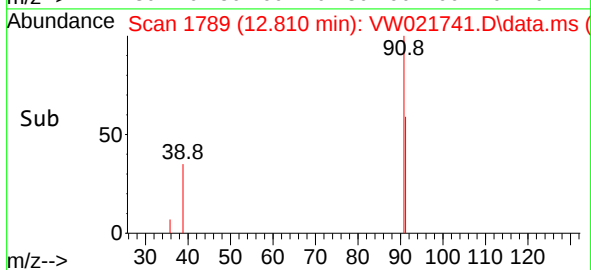
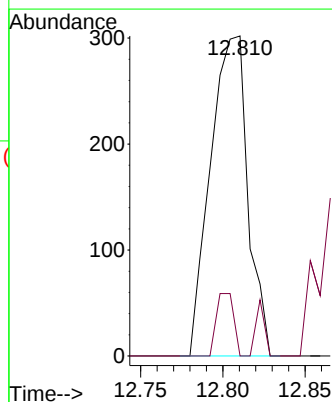
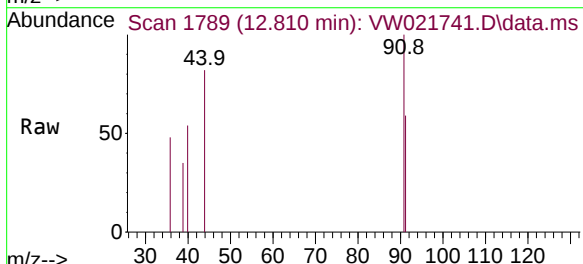
Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

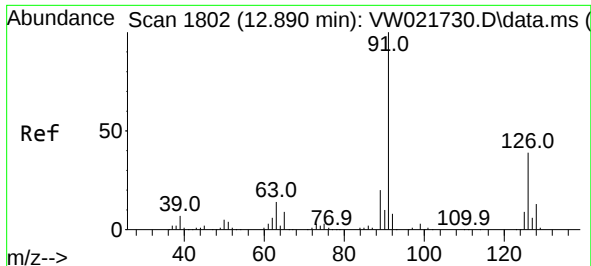
Tgt Ion: 75 Resp: 3780
Ion Ratio Lower Upper
75 100
77 0.6 0.0 0.0#



#78
n-propylbenzene
Concen: 1.377 ug/l
RT: 12.810 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 91 Resp: 477
Ion Ratio Lower Upper
91 100
120 9.0 12.4 37.4#





#79

2-Chlorotoluene

Concen: 2.432 ug/l

RT: 12.810 min Scan# 1

Delta R.T. -0.080 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

Instrument :

MSVOA_W

ClientSampleId :

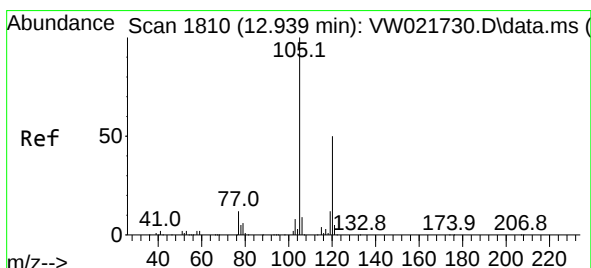
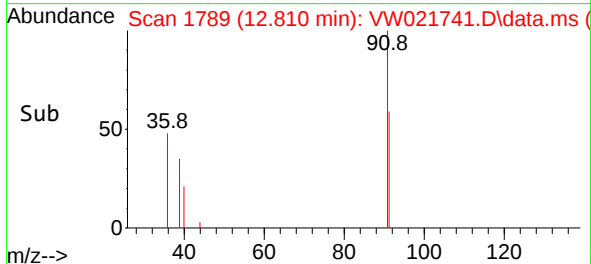
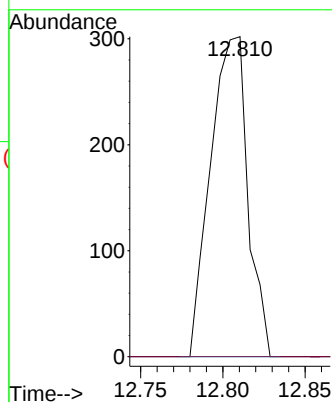
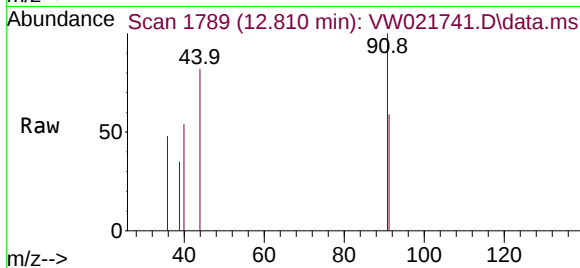
SB-8-(0-2)

Tgt Ion: 91 Resp: 477

Ion Ratio Lower Upper

91 100

126 0.0 18.0 54.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.741 ug/l

RT: 12.938 min Scan# 1810

Delta R.T. 0.000 min

Lab File: VW021741.D

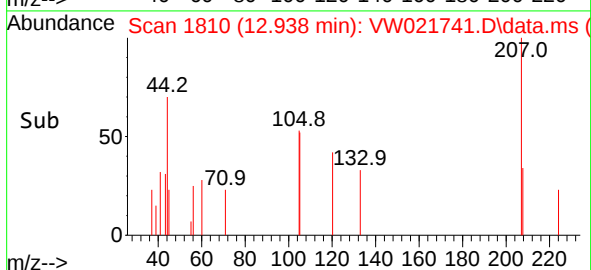
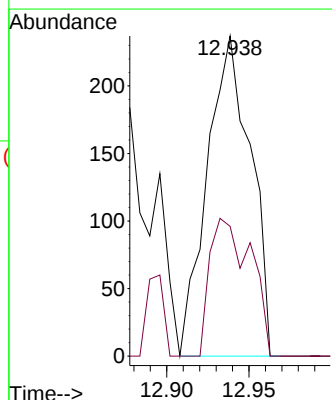
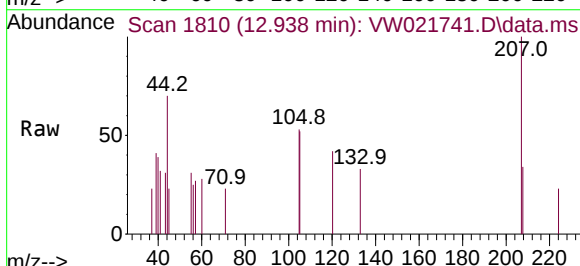
Acq: 05 Jan 2022 19:21

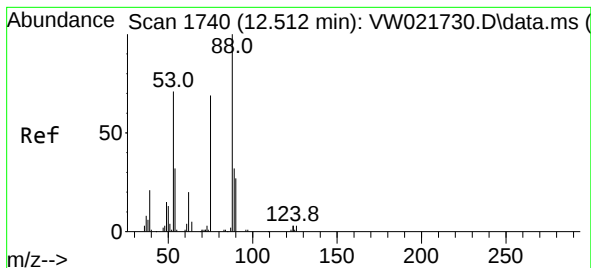
Tgt Ion: 105 Resp: 435

Ion Ratio Lower Upper

105 100

120 40.7 24.7 74.1

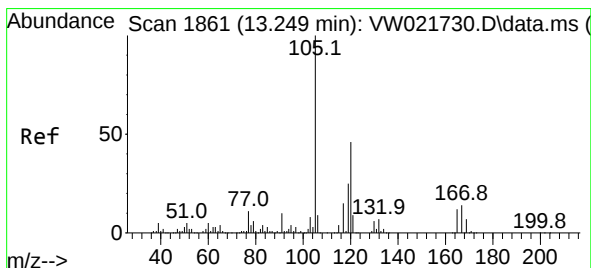
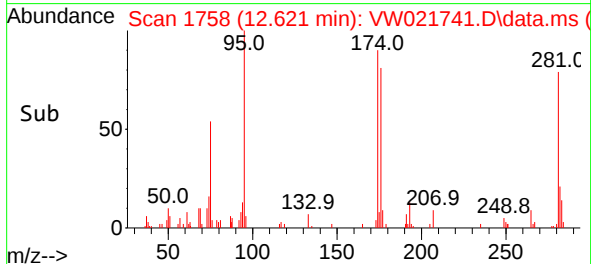
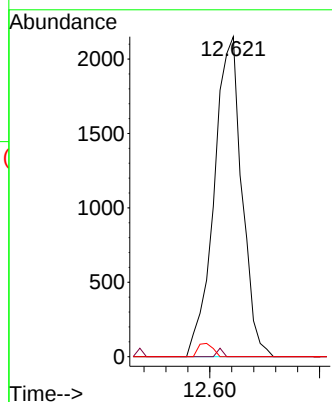
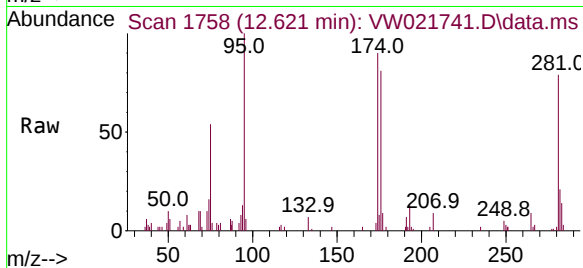




#81
trans-1,4-Dichloro-2-butene
Concen: 338.386 ug/l
RT: 12.621 min Scan# 1758
Delta R.T. 0.109 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

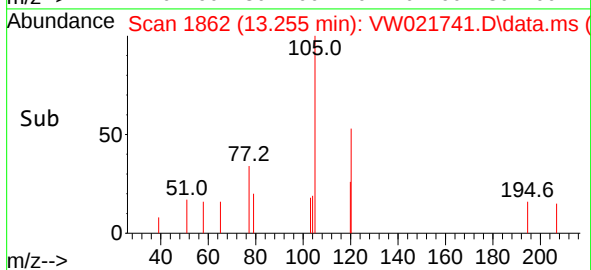
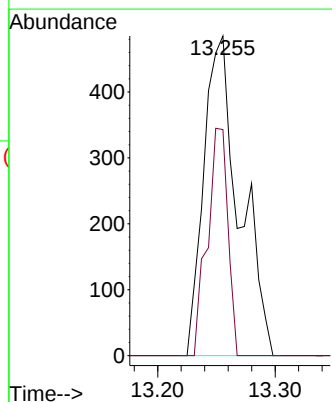
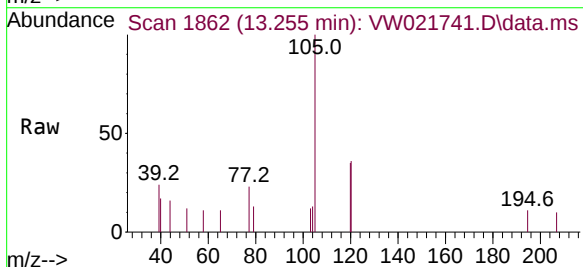
Instrument :
MSVOA_W
ClientSampleId :
SB-8-(0-2)

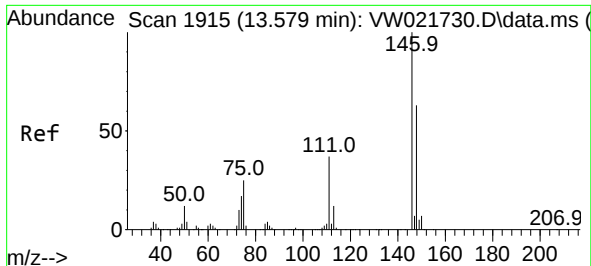
Tgt Ion: 75 Resp: 3780
Ion Ratio Lower Upper
75 100
53 0.0 81.8 122.8#
89 0.0 38.6 57.8#



#84
1,2,4-Trimethylbenzene
Concen: 4.179 ug/l
RT: 13.255 min Scan# 1862
Delta R.T. 0.006 min
Lab File: VW021741.D
Acq: 05 Jan 2022 19:21

Tgt Ion: 105 Resp: 1022
Ion Ratio Lower Upper
105 100
120 40.8 22.7 68.1

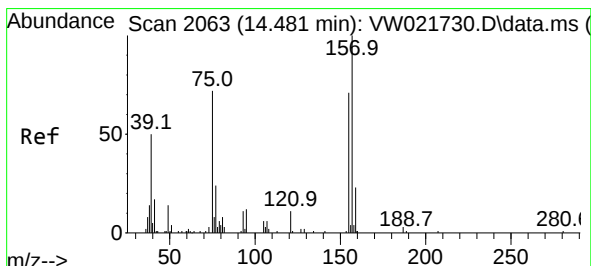
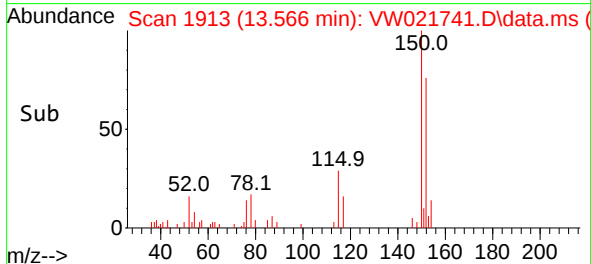
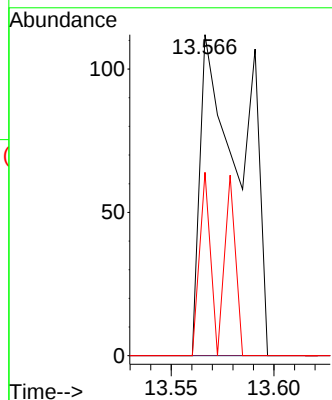
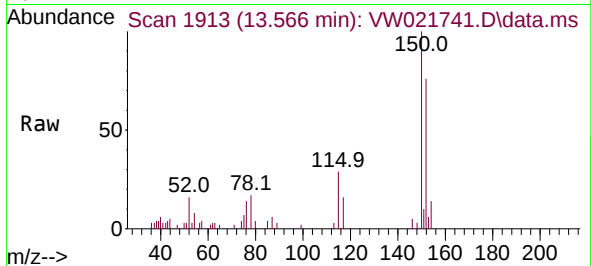




#88
 1,4-Dichlorobenzene
 Concen: 1.097 ug/l
 RT: 13.566 min Scan# 1915
 Delta R.T. -0.012 min
 Lab File: VW021741.D
 Acq: 05 Jan 2022 19:21

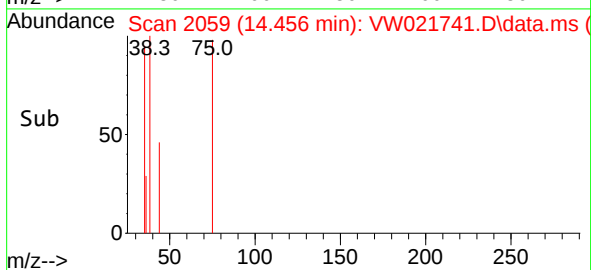
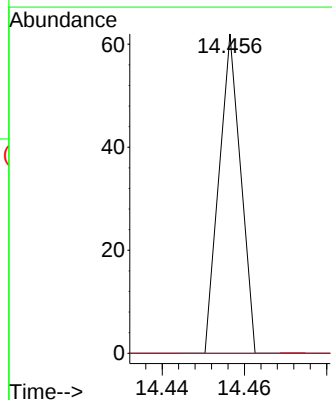
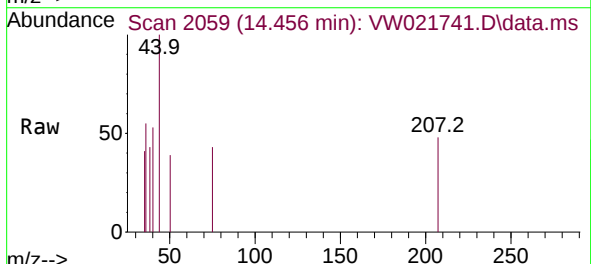
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-8-(0-2)

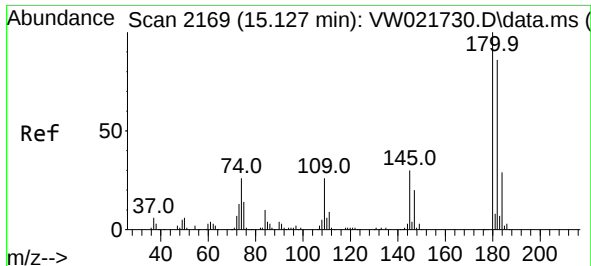
Tgt Ion:146 Resp: 158
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.8 56.4#
 148 29.1 31.1 93.2#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.380 ug/l
 RT: 14.456 min Scan# 2059
 Delta R.T. -0.025 min
 Lab File: VW021741.D
 Acq: 05 Jan 2022 19:21

Tgt Ion: 75 Resp: 23
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.9 137.6#
 157 0.0 57.8 173.4#





#93

1,2,4-Trichlorobenzene

Concen: 1.937 ug/l

RT: 15.139 min Scan# 2169

Delta R.T. 0.006 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

Instrument :

MSVOA_W

ClientSampleId :

SB-8-(0-2)

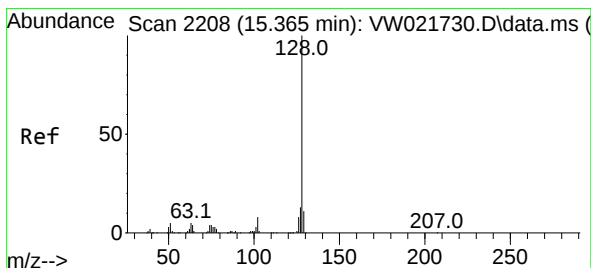
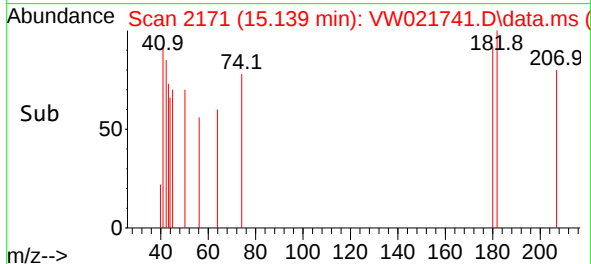
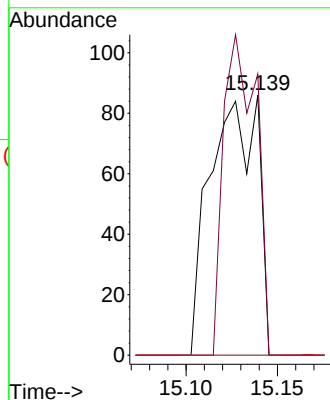
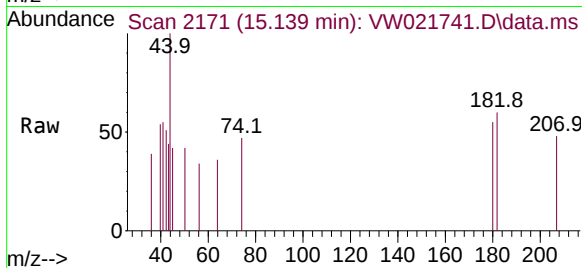
Tgt Ion:180 Resp: 155

Ion Ratio Lower Upper

180 100

182 85.8 46.5 139.3

145 0.0 15.0 45.1#



#95

Naphthalene

Concen: 7.054 ug/l

RT: 15.359 min Scan# 2207

Delta R.T. -0.006 min

Lab File: VW021741.D

Acq: 05 Jan 2022 19:21

Tgt Ion:128 Resp: 938

Ion Ratio Lower Upper

128 100

127 12.2 10.6 16.0

129 0.0 8.6 13.0#

