

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031722\
 Data File : VN071349.D
 Acq On : 17 Mar 2022 13:55
 Operator : JC\MD
 Sample : N1891-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-1

Quant Time: Mar 30 09:24:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 17 06:37:08 2022
 Response via : Initial Calibration

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

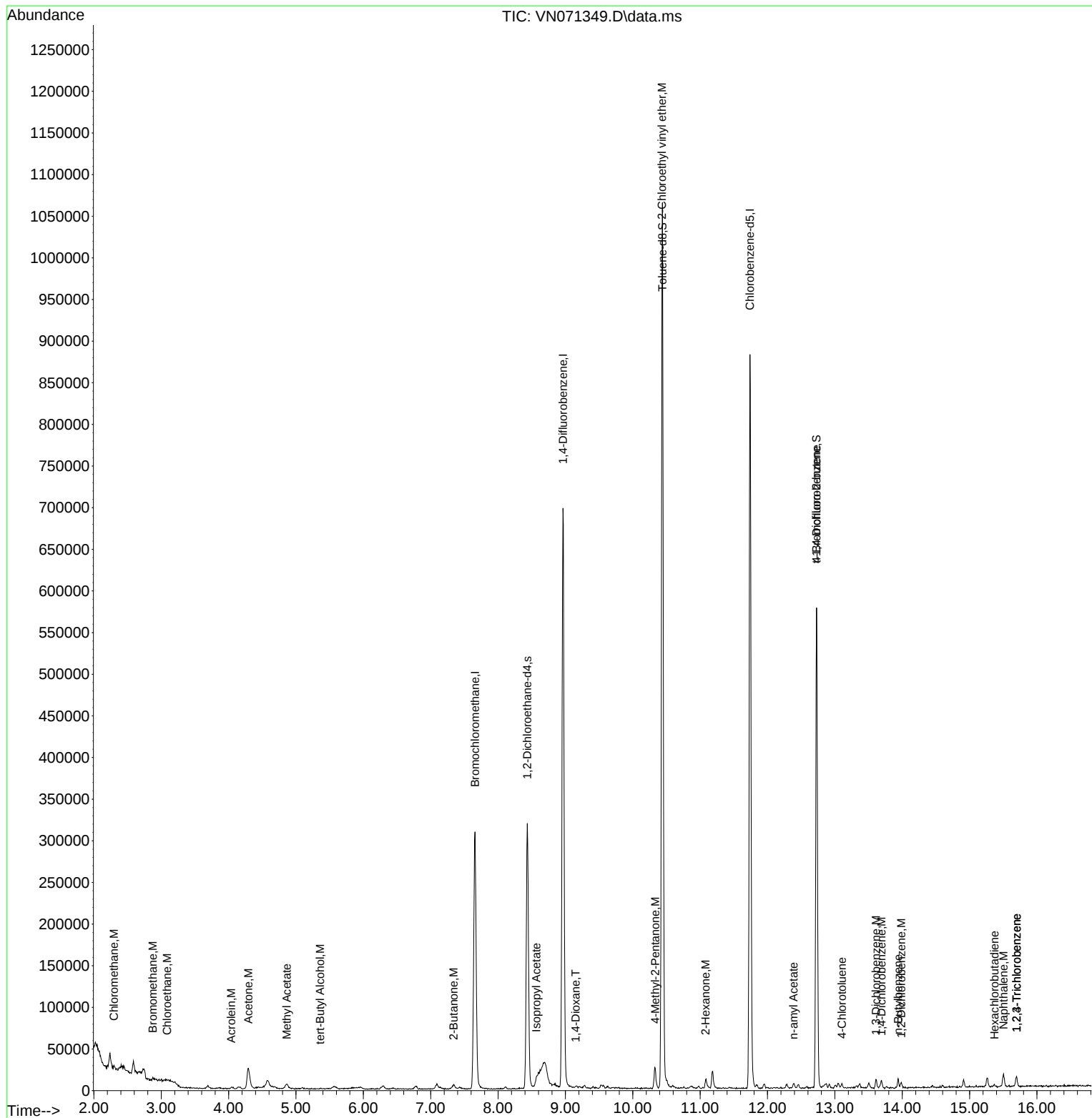
Internal Standards						
1) Bromochloromethane	7.657	128	108746	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	611740	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	516911	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	261901	30.334	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.100%
60) 4-Bromofluorobenzene	12.727	95	206852	25.902	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.333%
63) Toluene-d8	10.439	98	735410	30.927	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.100%
Target Compounds						Qvalue
3) Chloromethane	2.299	50	2404	0.256	ug/l #	86
5) Bromomethane	2.875	94	1279	0.296	ug/l #	72
6) Chloroethane	3.087	64	2234	0.426	ug/l	90
12) Methyl Acetate	4.863	43	12089	1.016	ug/l #	78
13) Acrolein	4.040	56	907	0.581	ug/l #	14
15) Acetone	4.293	58	14166	10.863	ug/l	84
23) tert-Butyl Alcohol	5.357	59	400	0.218	ug/l #	100
30) 2-Butanone	7.340	43	9184	1.317	ug/l #	60
44) Isopropyl Acetate	8.569	43	7034	0.323	ug/l #	55
45) 1,4-Dioxane	9.151	88	115	0.592	ug/l #	1
47) n-amyl Acetate	12.386	43	5144	0.356	ug/l #	76
55) 2-Chloroethyl vinyl ether	10.434	63	839	0.216	ug/l #	1
58) 4-Methyl-2-Pentanone	10.334	43	19765	1.592	ug/l #	93
59) 2-Hexanone	11.081	43	7986	0.866	ug/l #	86
77) t-1,4-Dichloro-2-butene	12.727	75	106614	32.772	ug/l #	8
78) 4-Chlorotoluene	13.104	91	4103	0.206	ug/l	77
83) 1,3-Dichlorobenzene	13.610	146	2538	0.213	ug/l	88
84) 1,4-Dichlorobenzene	13.692	146	3777	0.333	ug/l	91
85) n-Butylbenzene	13.939	91	5858	0.325	ug/l	98
87) 1,2-Dichlorobenzene	13.986	146	2867	0.248	ug/l	90
89) 1,2,4-Trichlorobenzene	15.698	180	5250	0.981	ug/l	98
90) Hexachlorobutadiene	15.369	225	746	0.247	ug/l	67
91) Naphthalene	15.504	128	14957	0.893	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.698	180	5341	0.973	ug/l	97

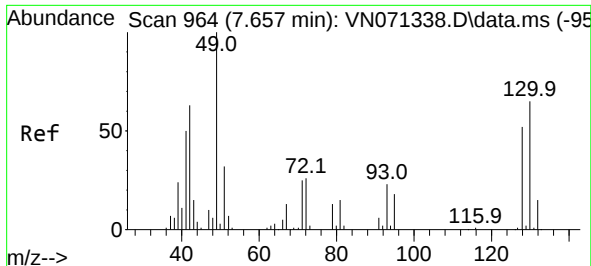
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031722\
Data File : VN071349.D
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Quant Time: Mar 30 09:24:28 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 17 06:37:08 2022
Response via : Initial Calibration

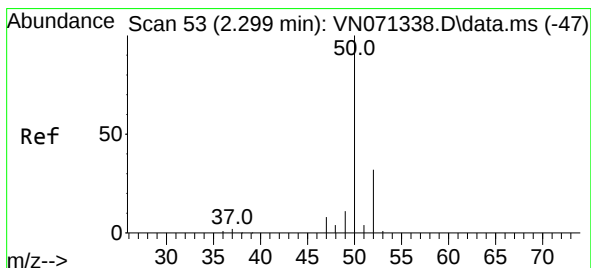
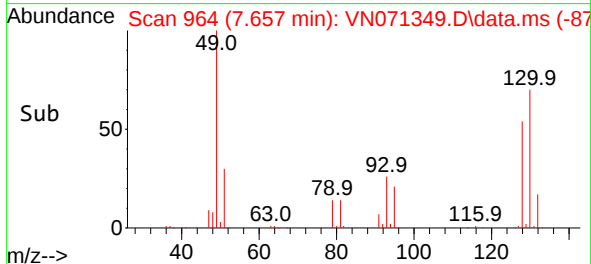
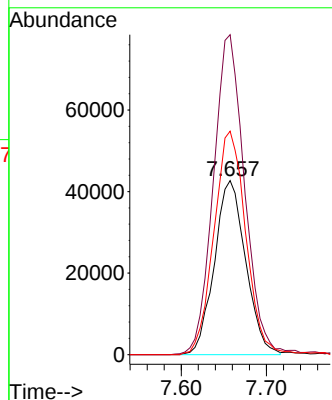
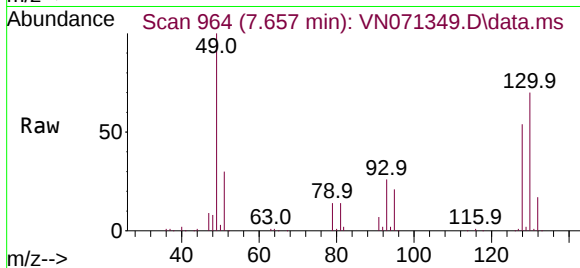




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

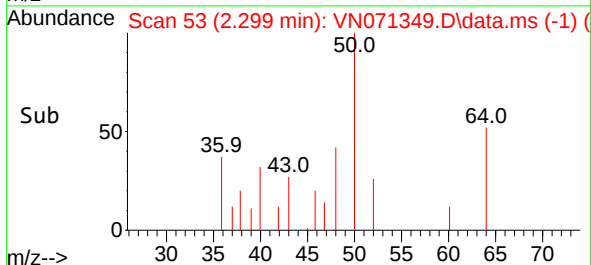
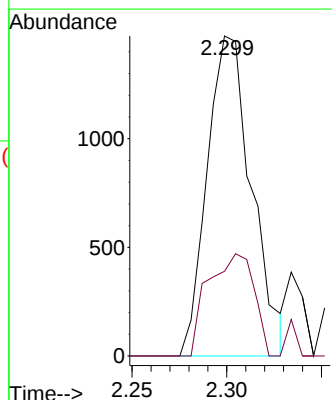
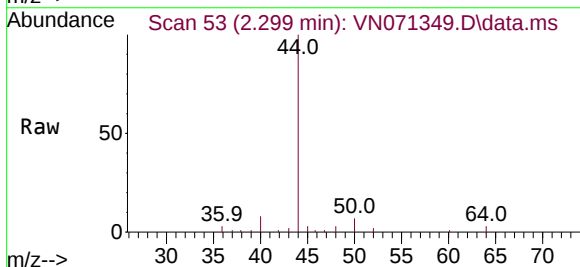
Instrument :
MSVOA_N
ClientSampleId :
OF-1

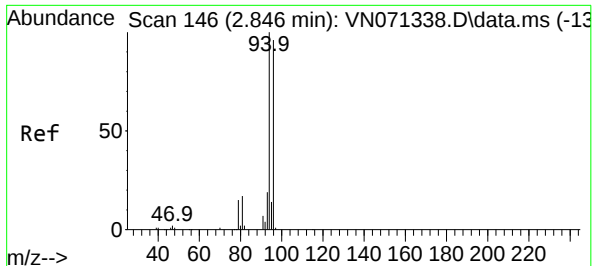
Tgt Ion:128 Resp: 108746
Ion Ratio Lower Upper
128 100
49 182.9 0.0 392.3
130 131.0 0.0 320.2



#3
Chloromethane
Concen: 0.256 ug/l
RT: 2.299 min Scan# 53
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion: 50 Resp: 2404
Ion Ratio Lower Upper
50 100
52 26.5 27.8 41.6#

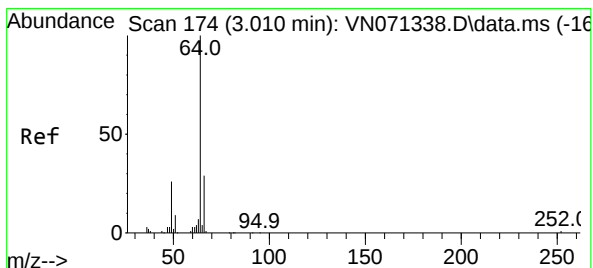
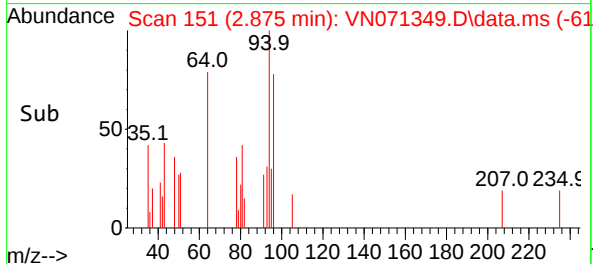
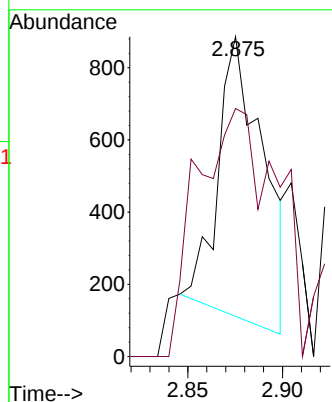
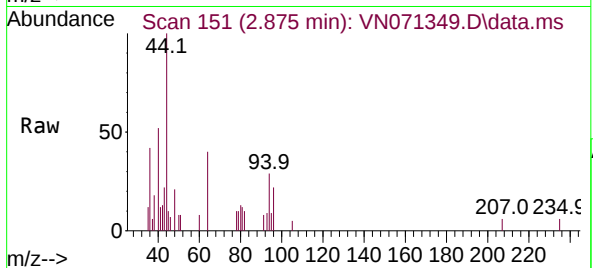




#5
Bromomethane
Concen: 0.296 ug/l
RT: 2.875 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

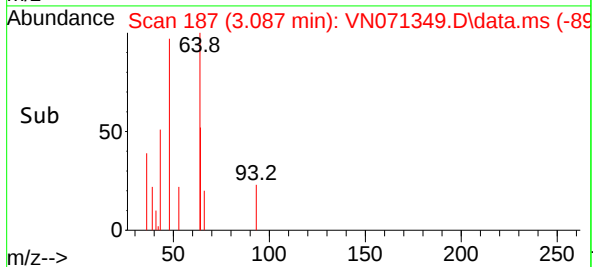
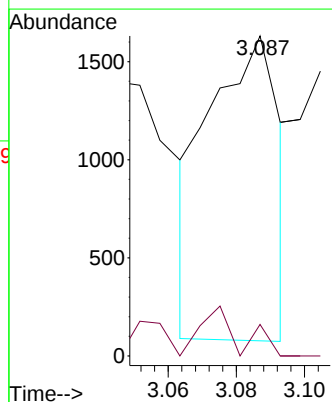
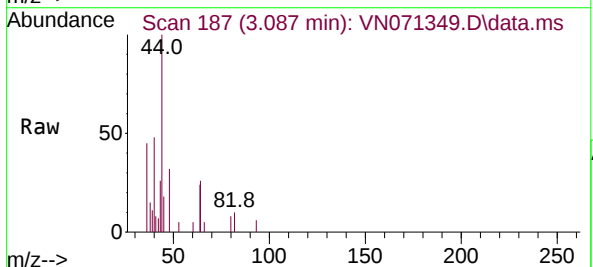
Instrument :
MSVOA_N
ClientSampleId :
OF-1

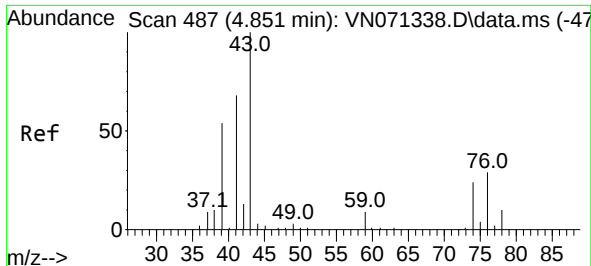
Tgt Ion: 94 Resp: 1279
Ion Ratio Lower Upper
94 100
96 66.8 75.2 112.8#



#6
Chloroethane
Concen: 0.426 ug/l
RT: 3.087 min Scan# 187
Delta R.T. 0.077 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion: 64 Resp: 2234
Ion Ratio Lower Upper
64 100
66 25.5 24.6 36.8





#12

Methyl Acetate

Concen: 1.016 ug/l

RT: 4.863 min Scan# 489

Delta R.T. 0.012 min

Lab File: VN071349.D

Acq: 17 Mar 2022 13:55

Instrument :

MSVOA_N

ClientSampleId :

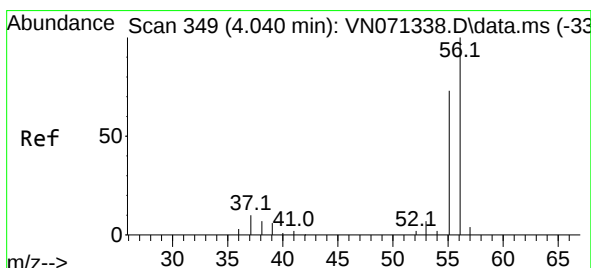
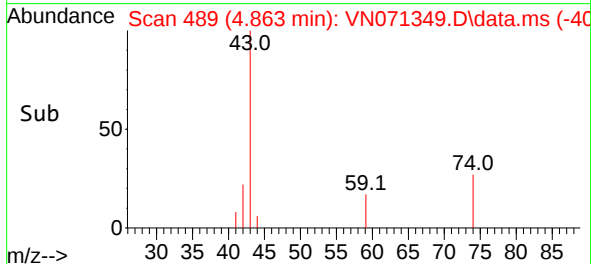
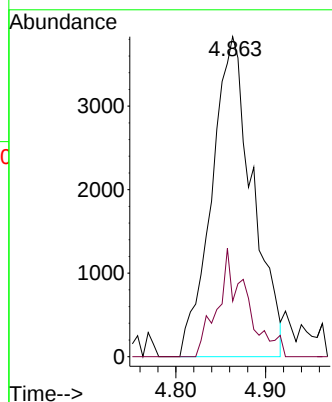
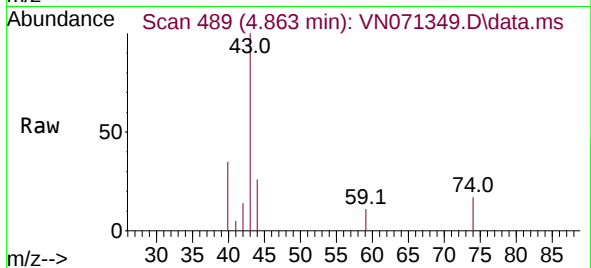
OF-1

Tgt Ion: 43 Resp: 12089

Ion Ratio Lower Upper

43 100

74 14.8 20.8 31.2#



#13

Acrolein

Concen: 0.581 ug/l

RT: 4.040 min Scan# 349

Delta R.T. 0.000 min

Lab File: VN071349.D

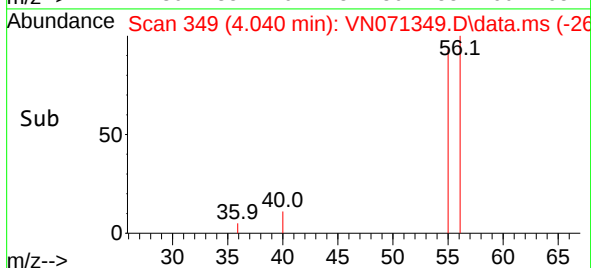
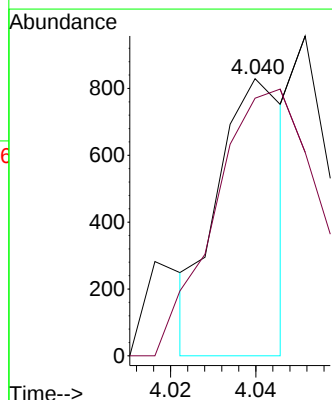
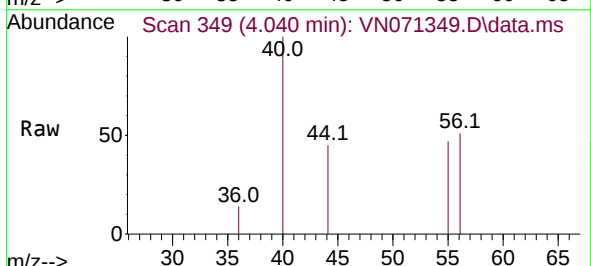
Acq: 17 Mar 2022 13:55

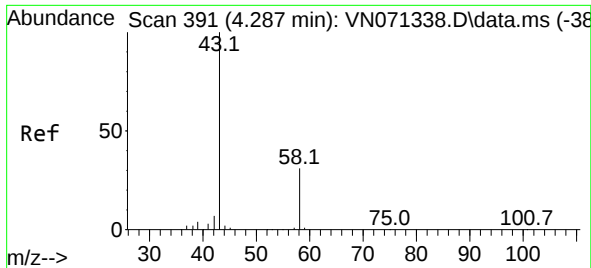
Tgt Ion: 56 Resp: 907

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#

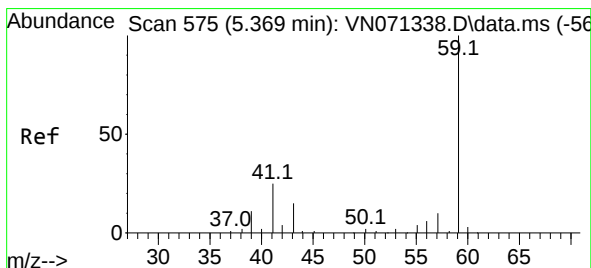
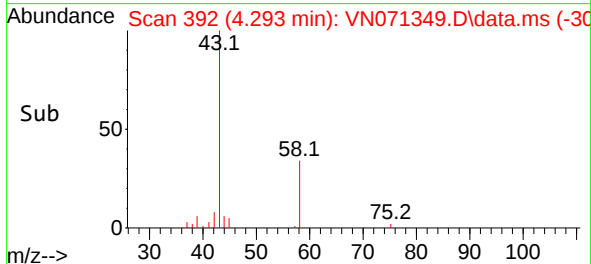
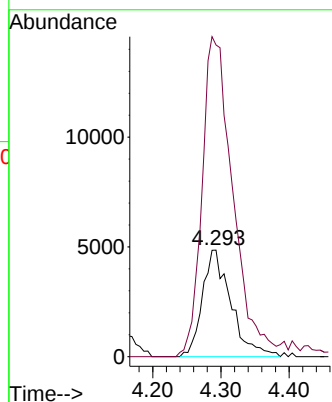
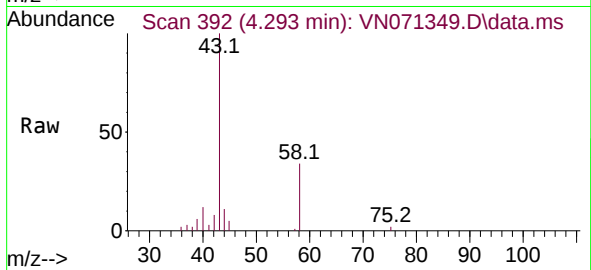




#15
Acetone
Concen: 10.863 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.006 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

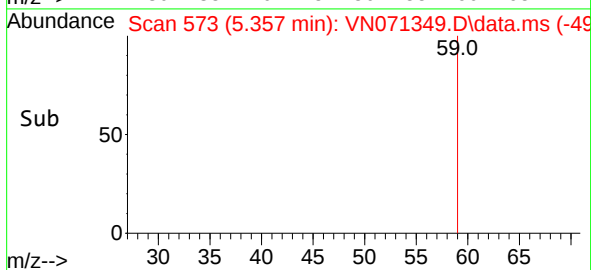
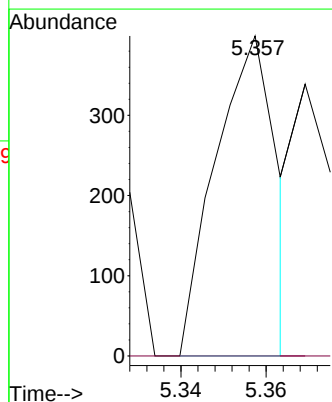
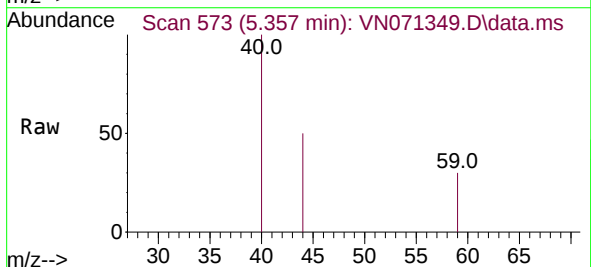
Instrument :
MSVOA_N
ClientSampleId :
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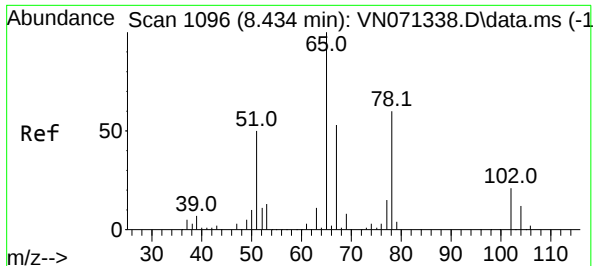
Tgt Ion: 58 Resp: 14166
Ion Ratio Lower Upper
58 100
43 288.5 256.6 384.8



#23
tert-Butyl Alcohol
Concen: 0.218 ug/l
RT: 5.357 min Scan# 573
Delta R.T. -0.012 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion: 59 Resp: 400
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 30.334 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. 0.000 min

Lab File: VN071349.D

Acq: 17 Mar 2022 13:55

Instrument :

MSVOA_N

ClientSampleId :

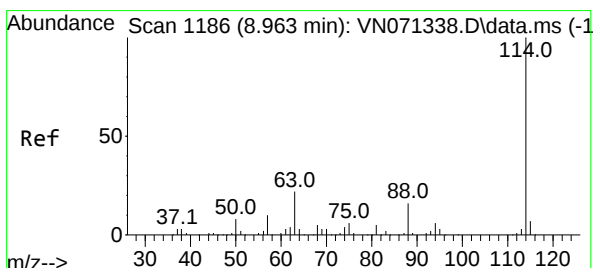
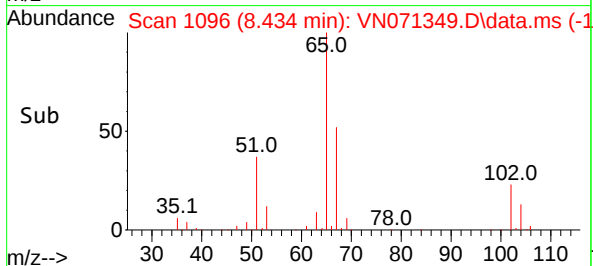
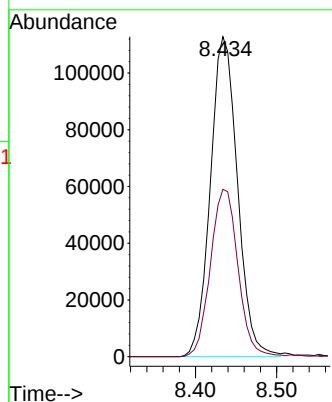
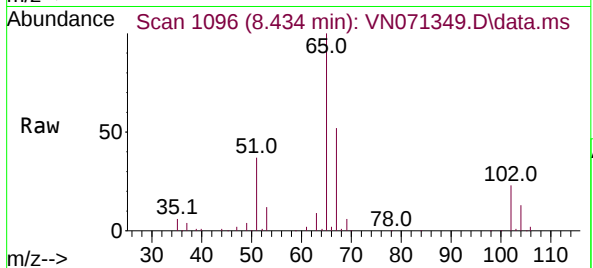
OF-1

Tgt Ion: 65 Resp: 261901

Ion Ratio Lower Upper

65 100

67 53.0 40.2 60.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. 0.000 min

Lab File: VN071349.D

Acq: 17 Mar 2022 13:55

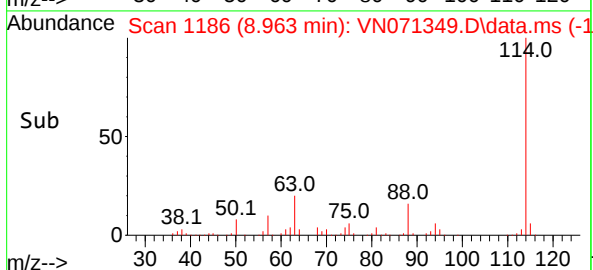
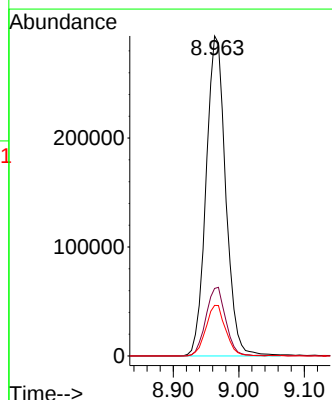
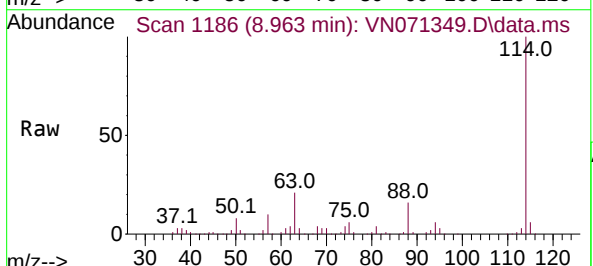
Tgt Ion: 114 Resp: 611740

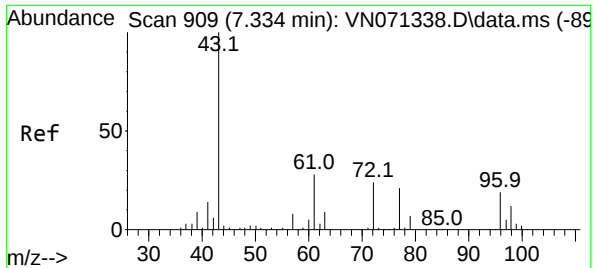
Ion Ratio Lower Upper

114 100

63 21.6 15.8 23.6

88 15.9 11.6 17.4

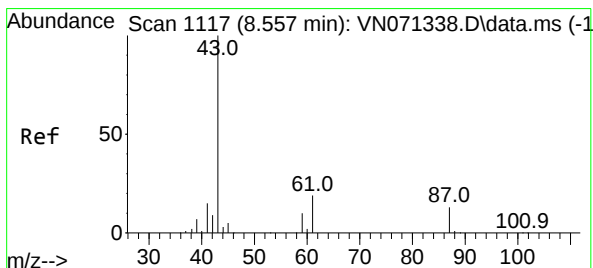
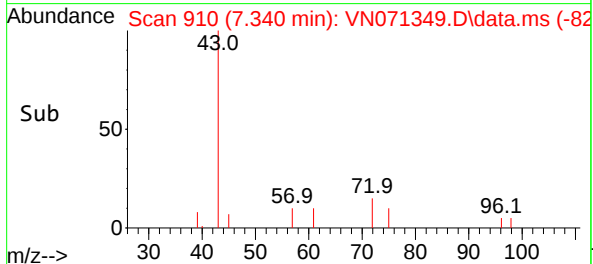
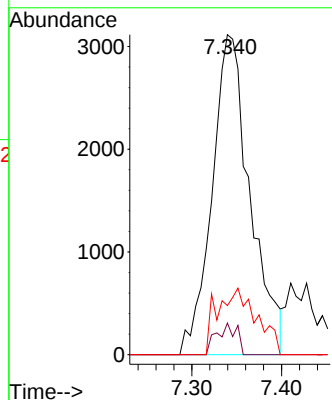
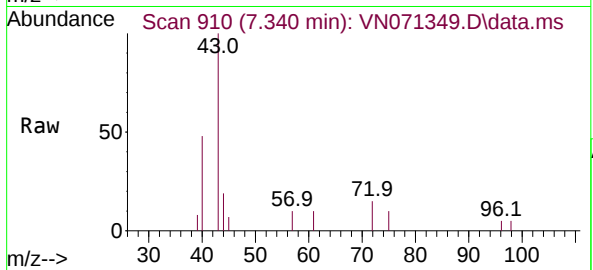




#30
2-Butanone
Concen: 1.317 ug/l
RT: 7.340 min Scan# 910
Delta R.T. 0.006 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

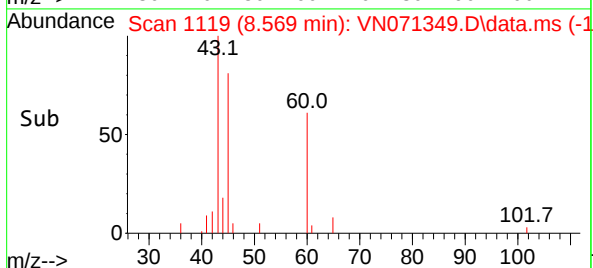
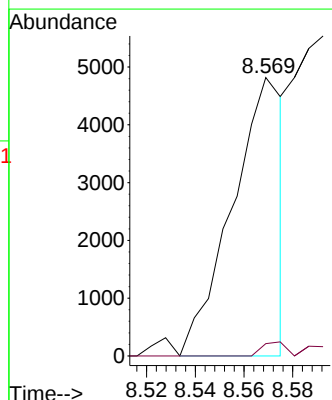
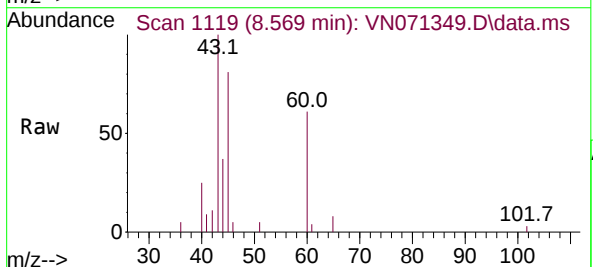
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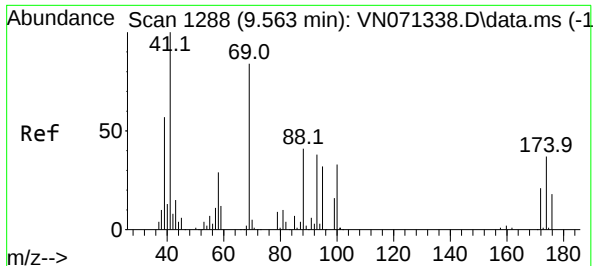
Tgt Ion: 43 Resp: 9184
Ion Ratio Lower Upper
43 100
57 3.0 6.7 10.1#
72 3.9 23.2 34.8#



#44
Isopropyl Acetate
Concen: 0.323 ug/l
RT: 8.569 min Scan# 1119
Delta R.T. 0.012 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion: 43 Resp: 7034
Ion Ratio Lower Upper
43 100
61 2.3 20.1 30.1#





#45

1,4-Dioxane

Concen: 0.592 ug/l

RT: 9.151 min Scan# 1218

Delta R.T. -0.412 min

Lab File: VN071349.D

Acq: 17 Mar 2022 13:55

Instrument :

MSVOA_N

ClientSampleId :

OF-1

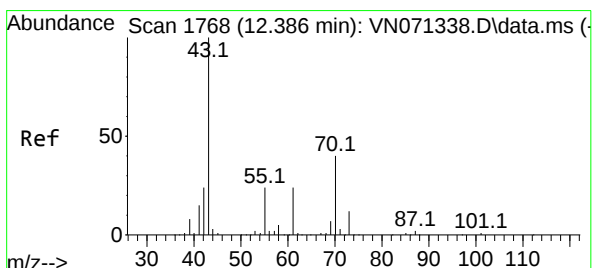
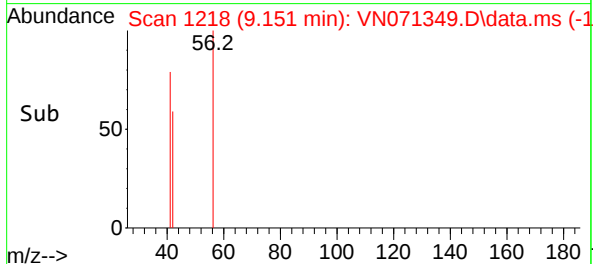
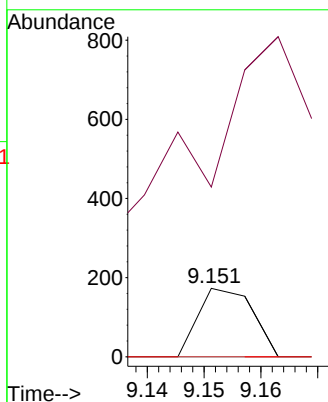
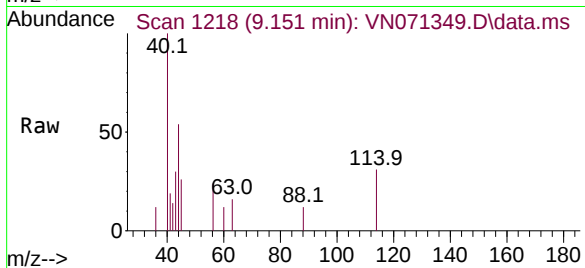
Tgt Ion: 88 Resp: 115

Ion Ratio Lower Upper

88 100

43 195.7 25.0 37.6#

58 0.0 49.4 74.2#



#47

n-amy1 Acetate

Concen: 0.356 ug/l

RT: 12.386 min Scan# 1768

Delta R.T. 0.000 min

Lab File: VN071349.D

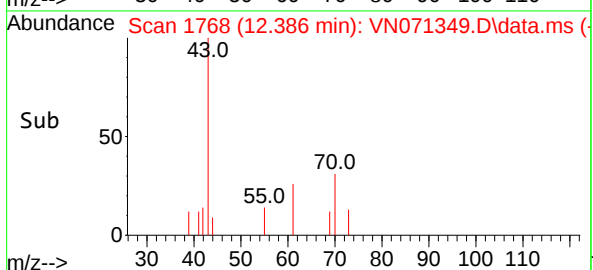
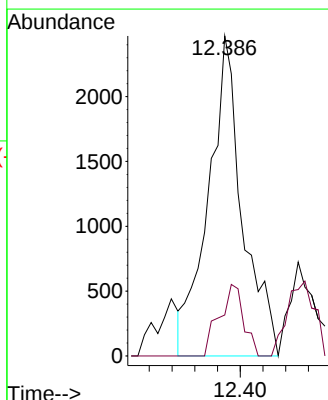
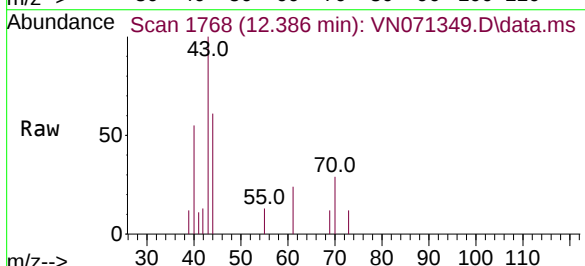
Acq: 17 Mar 2022 13:55

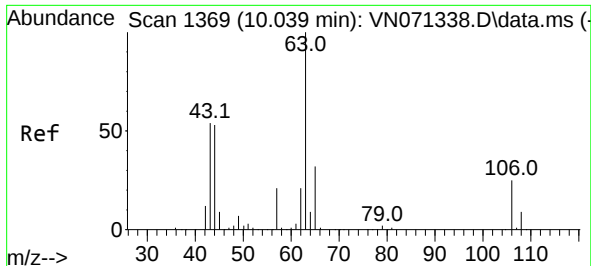
Tgt Ion: 43 Resp: 5144

Ion Ratio Lower Upper

43 100

55 12.0 19.0 28.6#

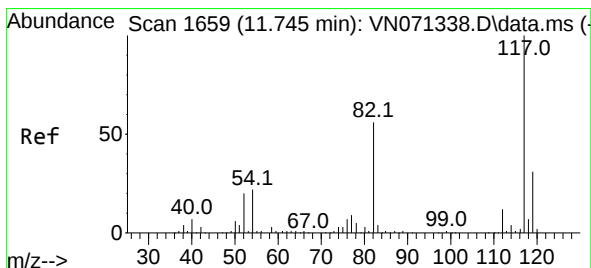
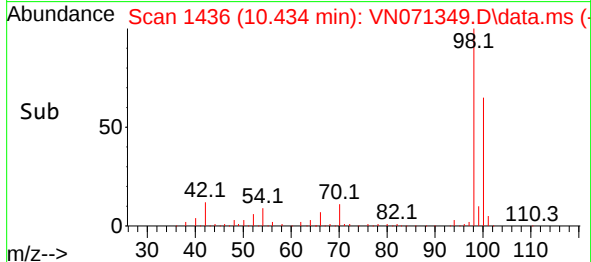
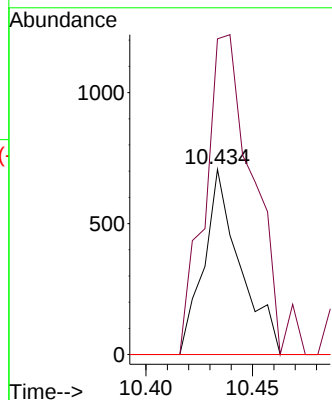
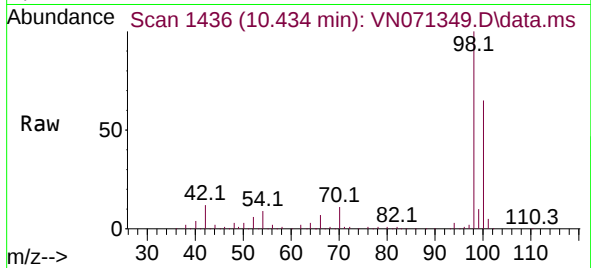




#55
2-Chloroethyl vinyl ether
Concen: 0.216 ug/l
RT: 10.434 min Scan# 1436
Delta R.T. 0.394 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

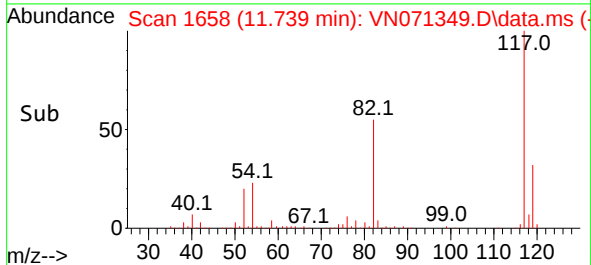
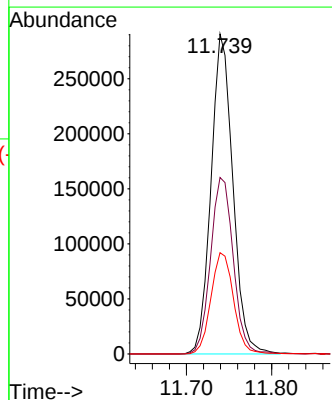
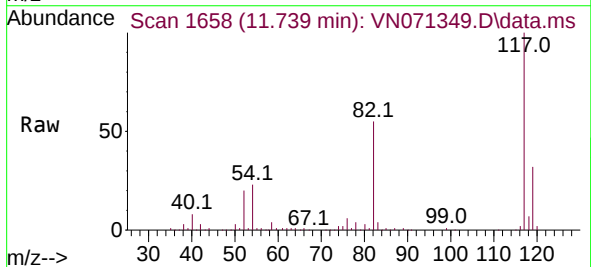
Instrument :
MSVOA_N
ClientSampleId :
OF-1

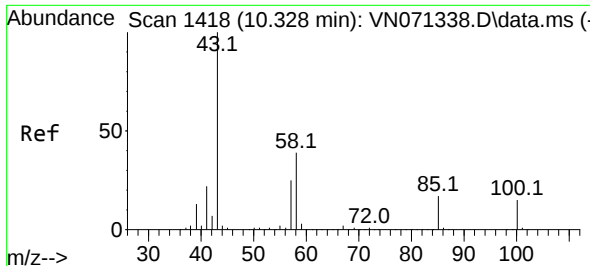
Tgt Ion: 63 Resp: 839
Ion Ratio Lower Upper
63 100
65 223.2 25.4 38.0#
106 0.0 23.2 34.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.006 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion: 117 Resp: 516911
Ion Ratio Lower Upper
117 100
82 57.1 43.6 65.4
119 32.8 25.8 38.6





#58

4-Methyl-2-Pentanone

Concen: 1.592 ug/l

RT: 10.334 min Scan# 1419

Delta R.T. 0.006 min

Lab File: VN071349.D

Acq: 17 Mar 2022 13:55

Instrument :

MSVOA_N

ClientSampleId :

OF-1

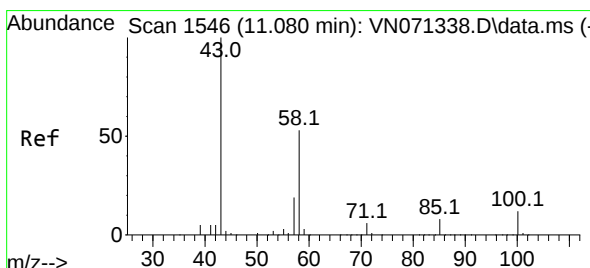
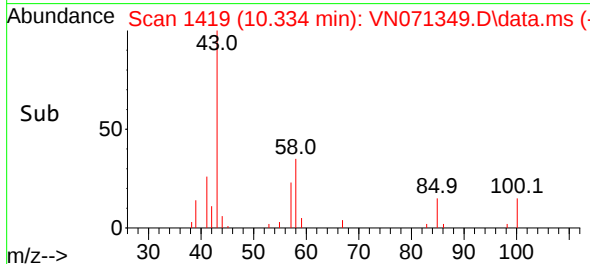
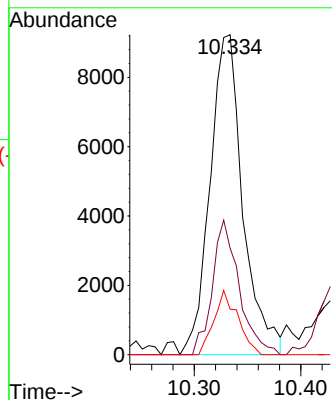
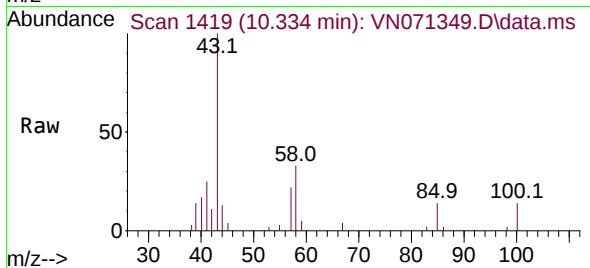
Tgt Ion: 43 Resp: 19765

Ion Ratio Lower Upper

43 100

58 34.4 30.0 45.0

85 14.6 15.0 22.6#



#59

2-Hexanone

Concen: 0.866 ug/l

RT: 11.081 min Scan# 1546

Delta R.T. 0.000 min

Lab File: VN071349.D

Acq: 17 Mar 2022 13:55

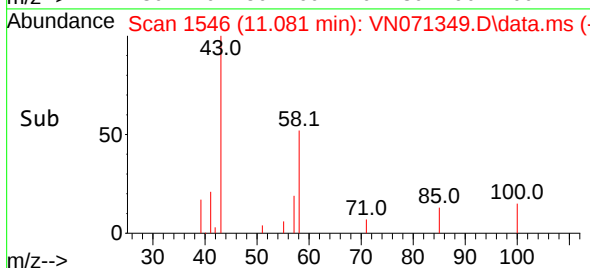
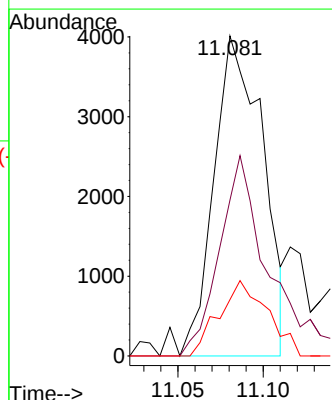
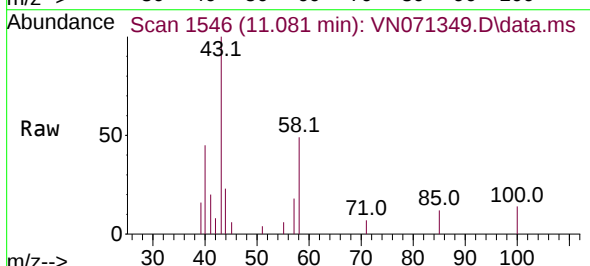
Tgt Ion: 43 Resp: 7986

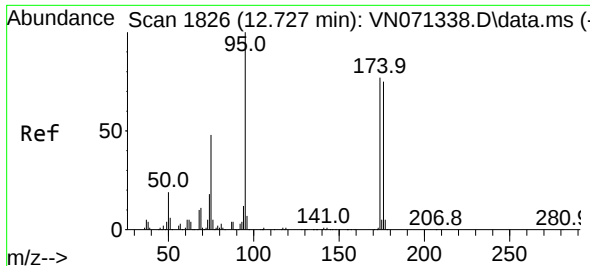
Ion Ratio Lower Upper

43 100

58 63.4 42.2 63.2#

57 23.4 15.0 22.4#

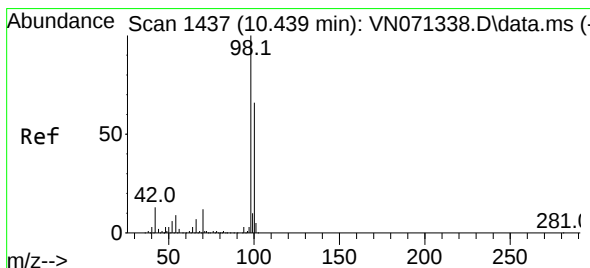
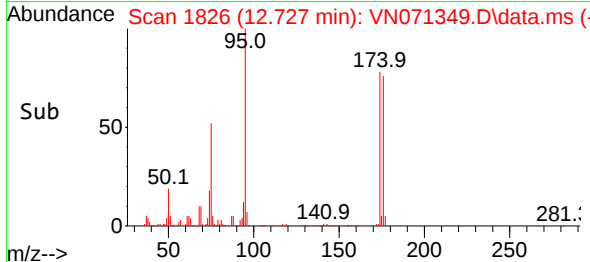
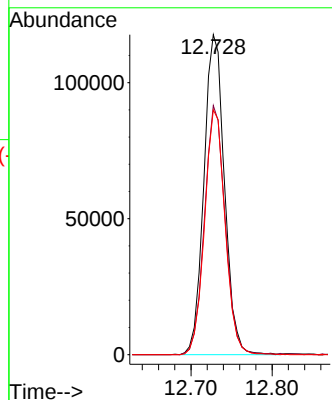
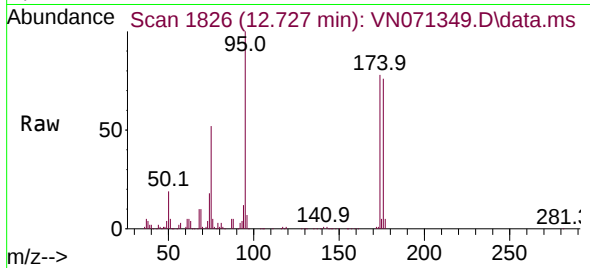




#60
4-Bromofluorobenzene
Concen: 25.902 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

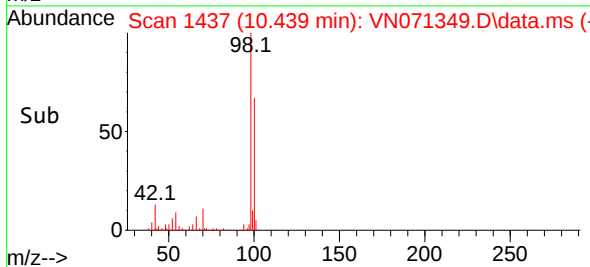
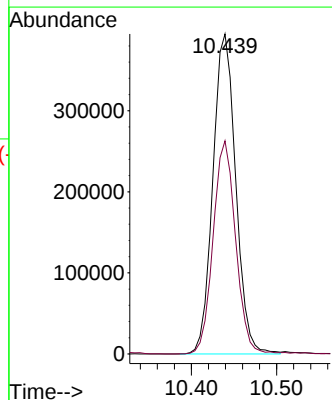
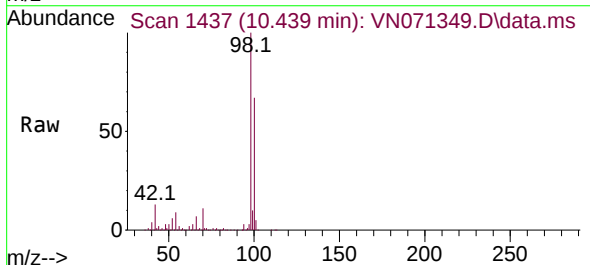
Instrument :
MSVOA_N
ClientSampleId :
OF-1

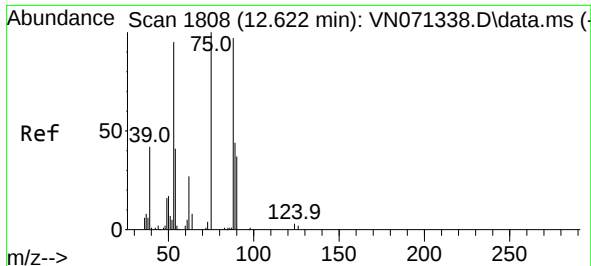
Tgt Ion: 95 Resp: 206852
Ion Ratio Lower Upper
95 100
174 78.1 62.9 94.3
176 76.3 61.0 91.4



#63
Toluene-d8
Concen: 30.927 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion: 98 Resp: 735410
Ion Ratio Lower Upper
98 100
100 65.4 50.6 76.0

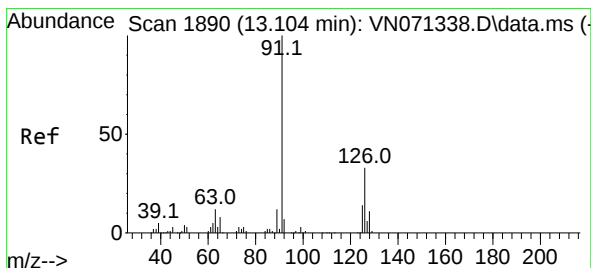
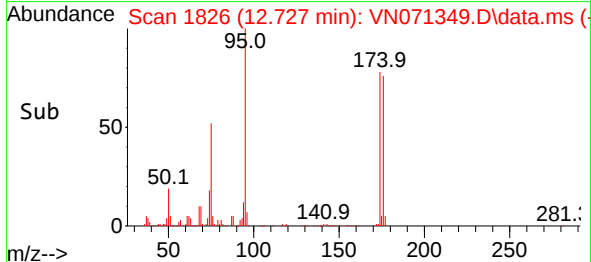
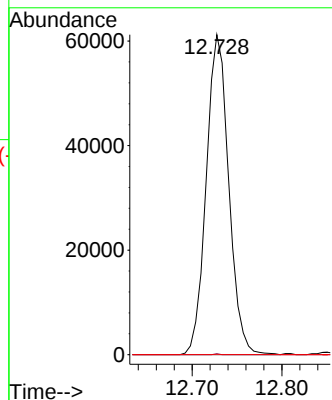
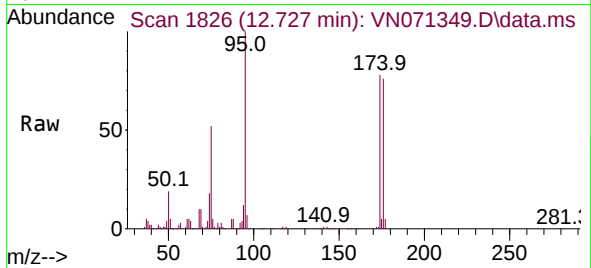




#77
t-1,4-Dichloro-2-butene
Concen: 32.772 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

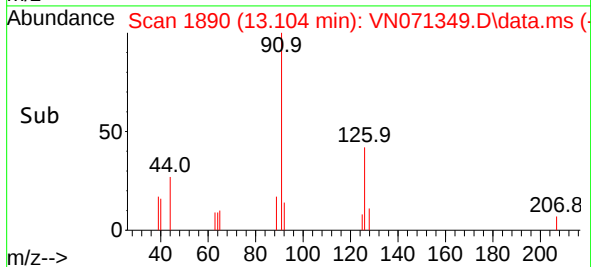
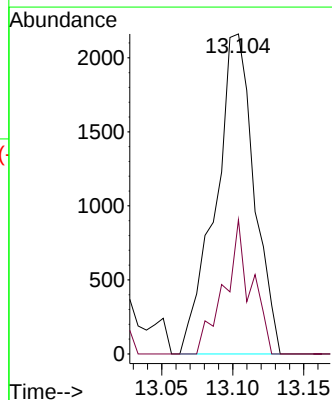
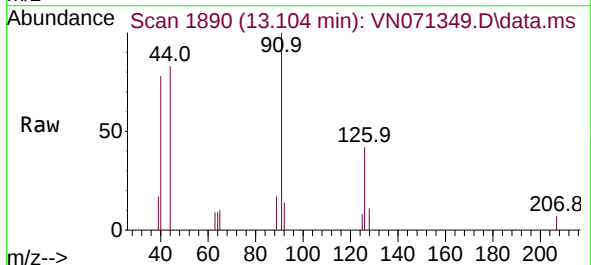
Instrument :
MSVOA_N
ClientSampleId :
OF-1

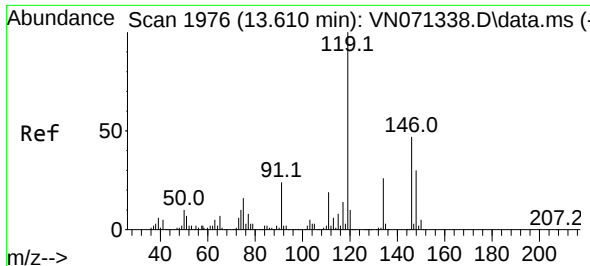
Tgt Ion: 75 Resp: 106614
Ion Ratio Lower Upper
75 100
53 0.3 51.8 155.5#
89 0.0 22.9 68.7#



#78
4-Chlorotoluene
Concen: 0.206 ug/l
RT: 13.104 min Scan# 1890
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion: 91 Resp: 4103
Ion Ratio Lower Upper
91 100
126 22.0 0.0 70.6

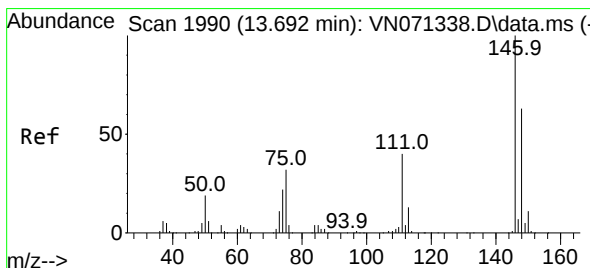
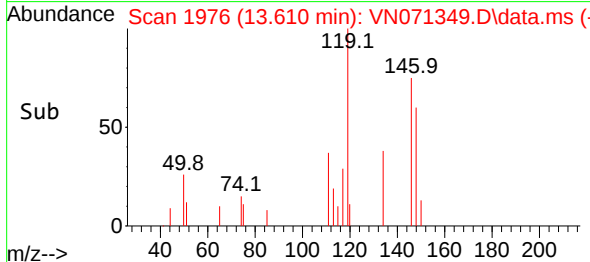
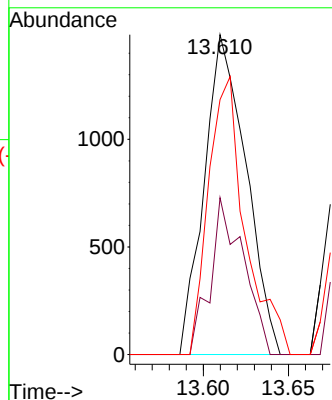
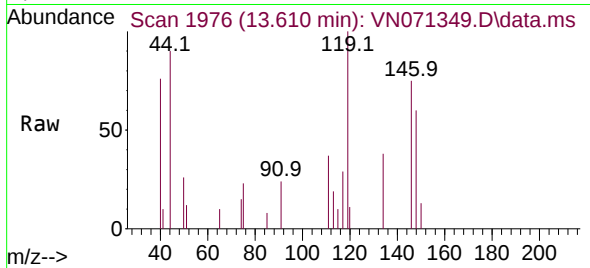




#83
1,3-Dichlorobenzene
Concen: 0.213 ug/l
RT: 13.610 min Scan# 1976
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

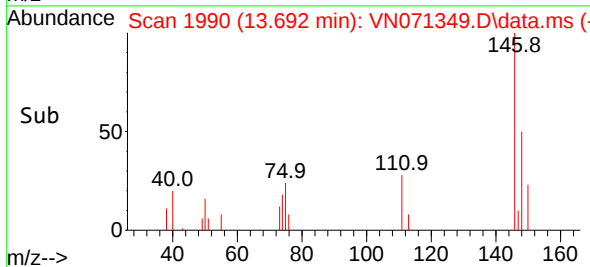
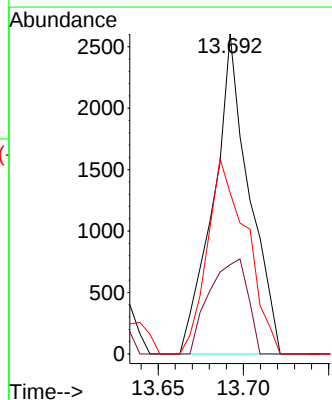
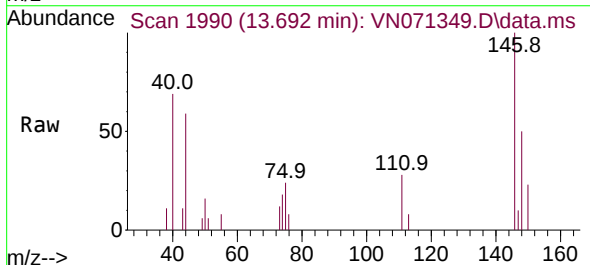
Instrument :
MSVOA_N
ClientSampleId :
OF-1

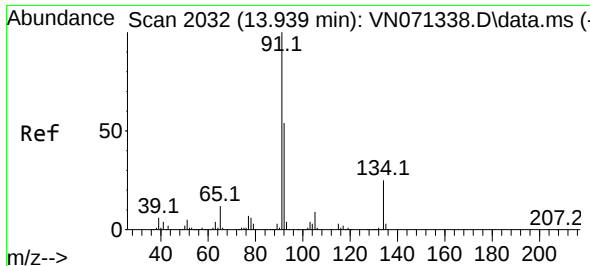
Tgt Ion:146 Resp: 2538
Ion Ratio Lower Upper
146 100
111 39.0 20.8 62.2
148 76.0 31.4 94.3



#84
1,4-Dichlorobenzene
Concen: 0.333 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion:146 Resp: 3777
Ion Ratio Lower Upper
146 100
111 32.1 19.5 58.5
148 67.7 31.1 93.5

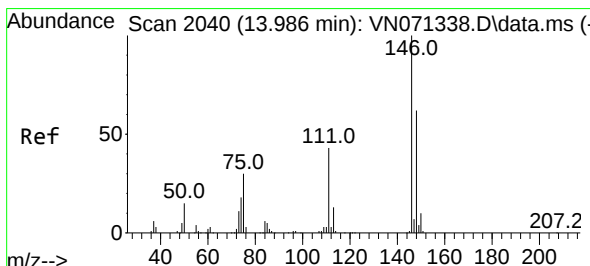
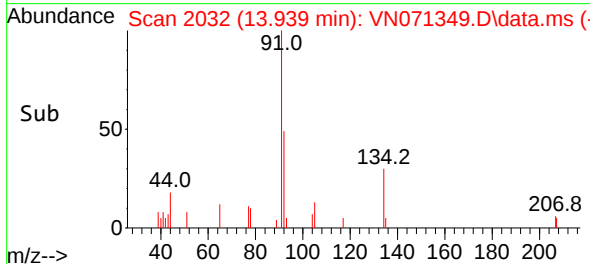
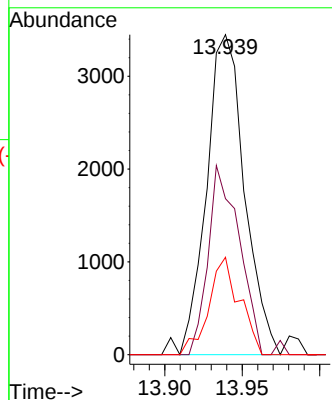
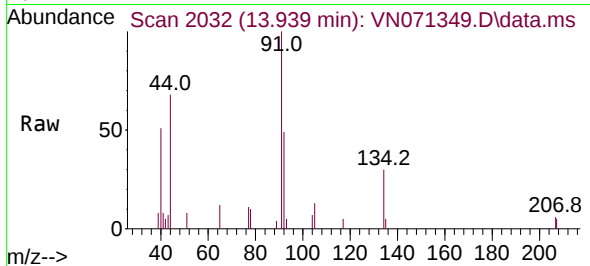




#85
n-Butylbenzene
Concen: 0.325 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

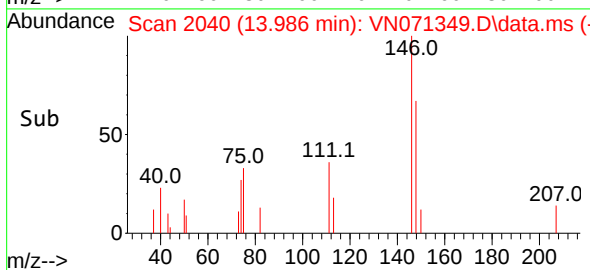
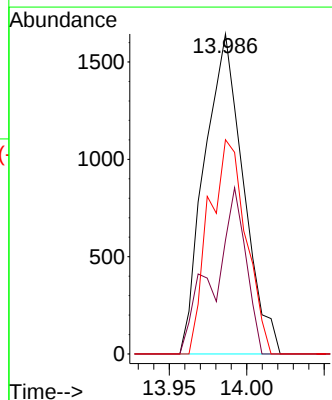
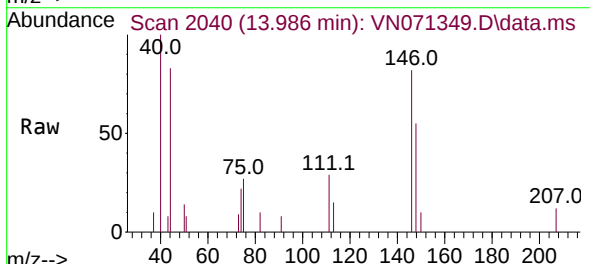
Instrument :
MSVOA_N
ClientSampleId :
OF-1

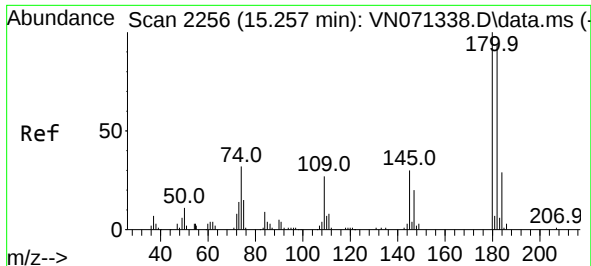
Tgt Ion:	91	Resp:	5858
Ion	Ratio	Lower	Upper
91	100		
92	48.6	0.0	100.6
134	24.8	0.0	50.2



#87
1,2-Dichlorobenzene
Concen: 0.248 ug/l
RT: 13.986 min Scan# 2040
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion:	146	Resp:	2867
Ion	Ratio	Lower	Upper
146	100		
111	28.0	21.4	64.2
148	63.9	32.5	97.4





#89

1,2,4-Trichlorobenzene

Concen: 0.981 ug/l

RT: 15.698 min Scan# 21

Delta R.T. 0.441 min

Lab File: VN071349.D

Acq: 17 Mar 2022 13:55

Instrument :

MSVOA_N

ClientSampleId :

OF-1

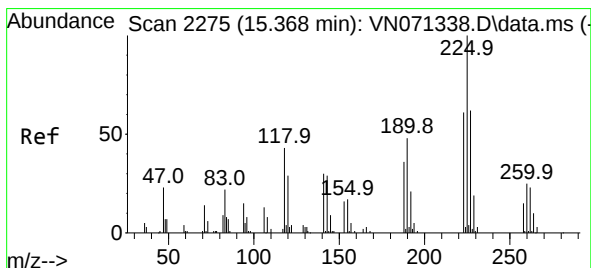
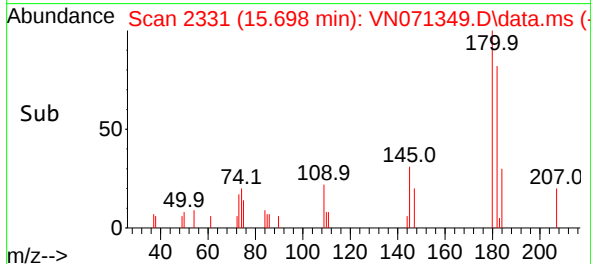
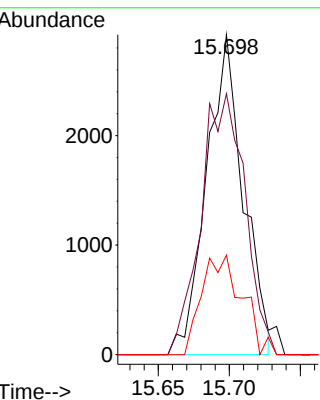
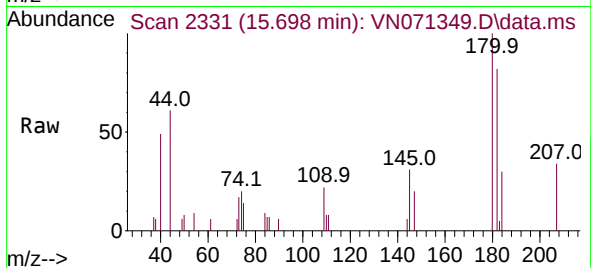
Tgt Ion:180 Resp: 5250

Ion Ratio Lower Upper

180 100

182 97.5 77.7 116.5

145 29.8 26.6 39.8



#90

Hexachlorobutadiene

Concen: 0.247 ug/l

RT: 15.369 min Scan# 2275

Delta R.T. 0.000 min

Lab File: VN071349.D

Acq: 17 Mar 2022 13:55

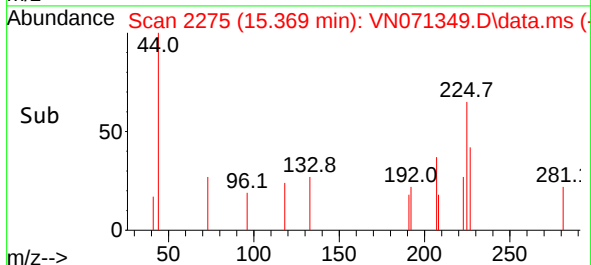
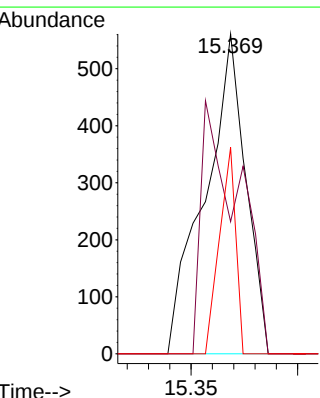
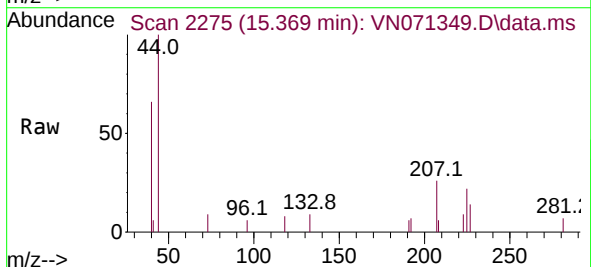
Tgt Ion:225 Resp: 746

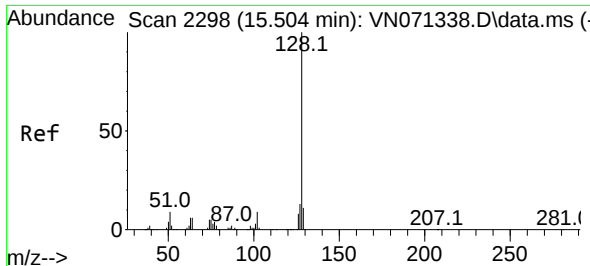
Ion Ratio Lower Upper

225 100

223 47.6 0.0 126.8

227 25.9 0.0 123.0

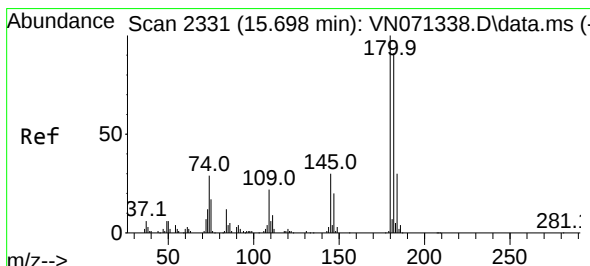
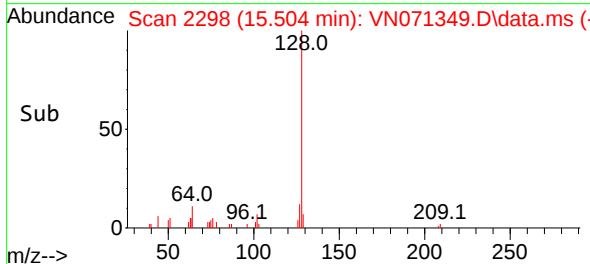
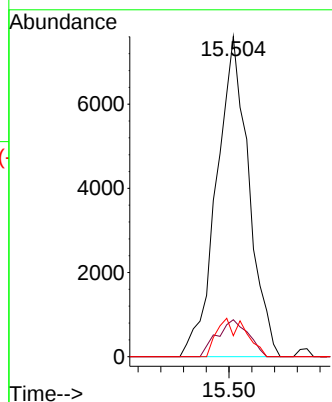
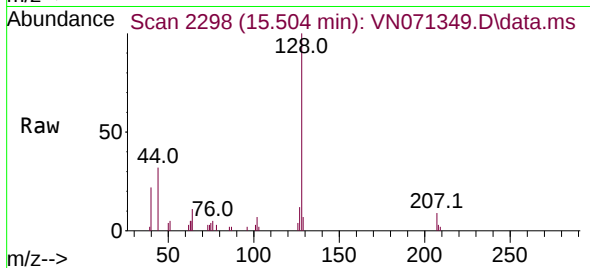




#91
Naphthalene
Concen: 0.893 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Tgt Ion:128 Resp: 14957
Ion Ratio Lower Upper
128 100
127 11.3 10.7 16.1
129 6.1 9.0 13.6#



#92
1,2,3-Trichlorobenzene
Concen: 0.973 ug/l
RT: 15.698 min Scan# 2331
Delta R.T. 0.000 min
Lab File: VN071349.D
Acq: 17 Mar 2022 13:55

Tgt Ion:180 Resp: 5341
Ion Ratio Lower Upper
180 100
182 95.9 0.0 190.0
145 29.3 0.0 67.8

