

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070192.D
 Acq On : 18 Dec 2021 4:07
 Operator : JC/MD
 Sample : M5132-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 19 07:22:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

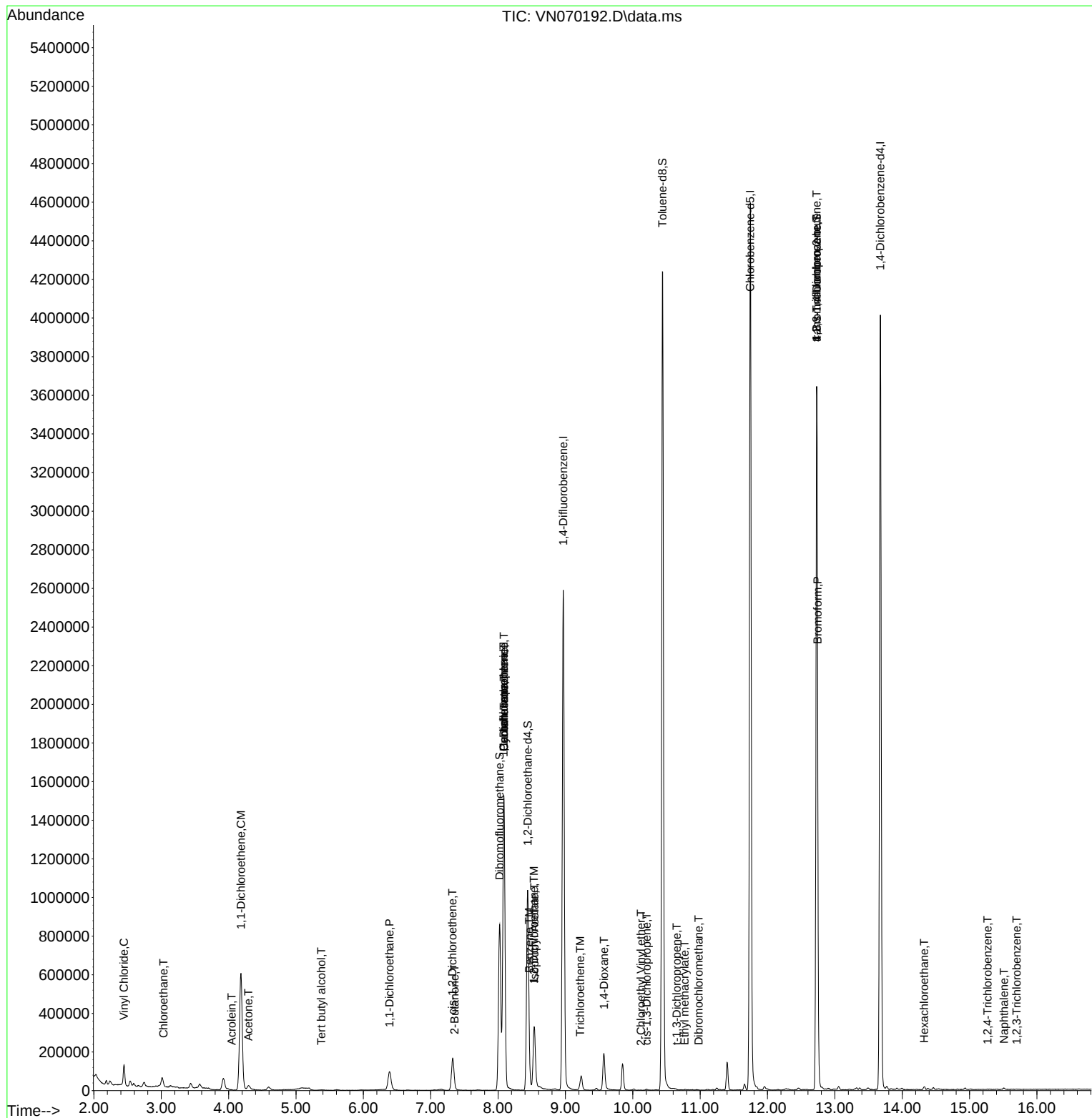
Internal Standards						
1) Pentafluorobenzene	8.086	168	1140326	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2169273	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2588822	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1054128	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	910312	51.703	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 103.400%	
35) Dibromofluoromethane	8.024	113	637046	46.883	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 93.760%	
50) Toluene-d8	10.441	98	2891498	52.997	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 106.000%	
62) 4-Bromofluorobenzene	12.731	95	1288535	65.190	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 130.380%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.446	62	99462	6.492	ug/l	99
6) Chloroethane	3.033	64	5454	0.581	ug/l	93
11) Tert butyl alcohol	5.377	59	960	0.288	ug/l #	86
12) 1,1-Dichloroethene	4.183	96	336611	30.990	ug/l	87
13) Acrolein	4.044	56	681	0.240	ug/l #	14
16) Acetone	4.293	43	36938	3.488	ug/l	98
24) 1,1-Dichloroethane	6.388	63	139577	5.632	ug/l	98
25) 2-Butanone	7.354	43	4122	0.286	ug/l #	66
27) cis-1,2-Dichloroethene	7.324	96	94679	6.642	ug/l	95
31) Cyclohexane	8.086	56	30337	1.238	ug/l #	23
36) 1,1-Dichloropropene	8.083	75	96678	4.682	ug/l #	49
38) Carbon Tetrachloride	8.086	117	115788	5.718	ug/l #	16
40) Benzene	8.461	78	24480	0.388	ug/l	99
42) 1,2-Dichloroethane	8.534	62	44756	1.756	ug/l	97
43) Isopropyl Acetate	8.539	43	67781	1.490	ug/l #	67
44) Trichloroethene	9.220	130	6579	0.437	ug/l	83
49) 1,4-Dioxane	9.572	88	148389	389.607	ug/l	86
53) t-1,3-Dichloropropene	10.652	75	52	2.796	ug/l #	1
54) cis-1,3-Dichloropropene	10.207	75	50	2.000	ug/l #	61
56) Ethyl methacrylate	10.770	69	304	2.289	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.121	63	396	18.435	ug/l #	45
60) Dibromochloromethane	10.977	129	102	2.382	ug/l #	11
71) Bromoform	12.744	173	725	2.774	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	709103	23.457	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	709103	74.597	ug/l #	6
90) Hexachloroethane	14.324	117	3964	0.319	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.268	180	316	2.895	ug/l #	3
95) Naphthalene	15.509	128	7825	4.125	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.700	180	575	2.468	ug/l #	65

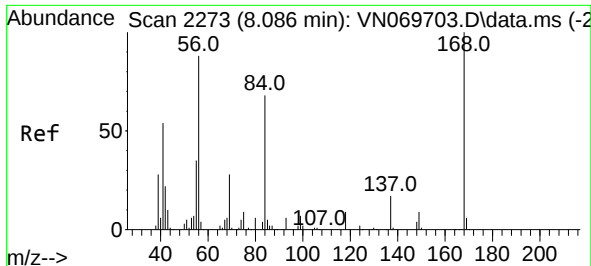
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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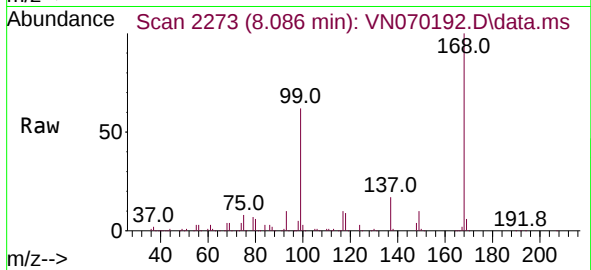
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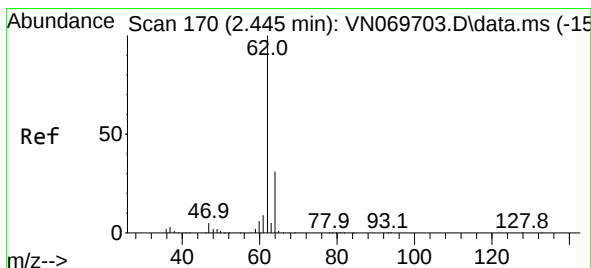
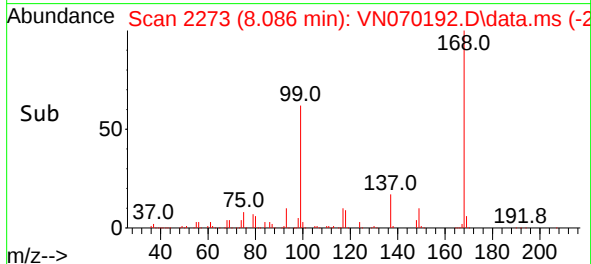
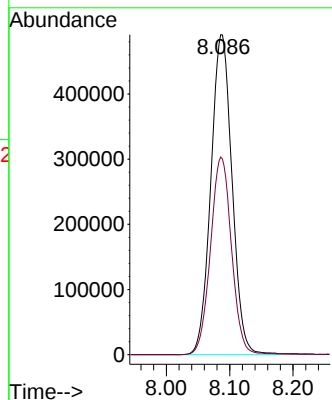


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Instrument :
MSVOA_N
ClientSampleId :

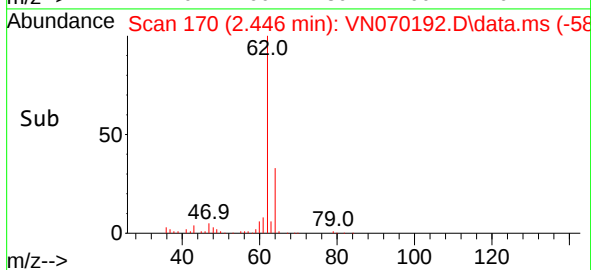
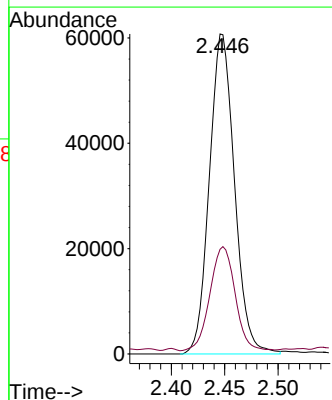
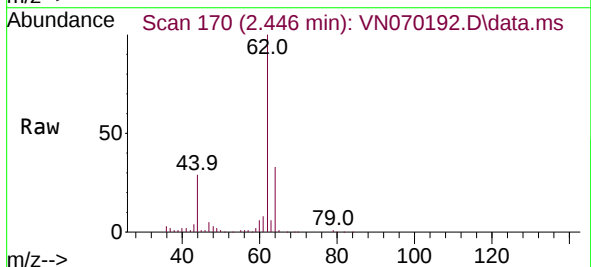


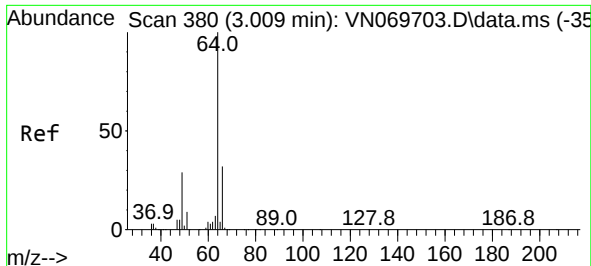
Tgt Ion:168 Resp: 1140326
Ion Ratio Lower Upper
168 100
99 61.7 41.3 61.9



#4
Vinyl Chloride
Concen: 6.492 ug/l
RT: 2.446 min Scan# 170
Delta R.T. 0.000 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 62 Resp: 99462
Ion Ratio Lower Upper
62 100
64 31.7 25.8 38.6

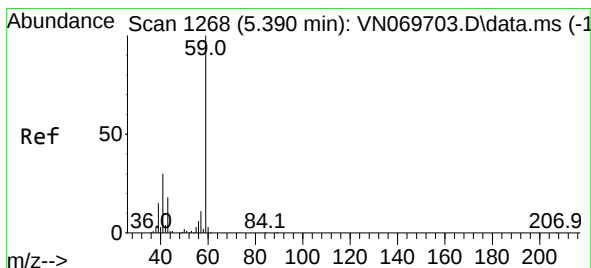
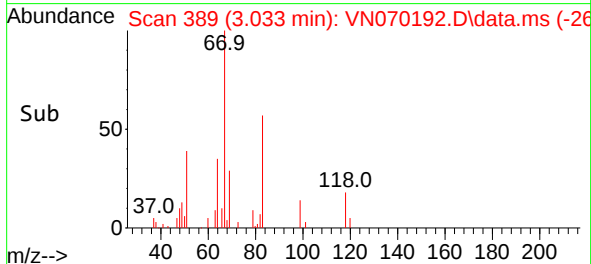
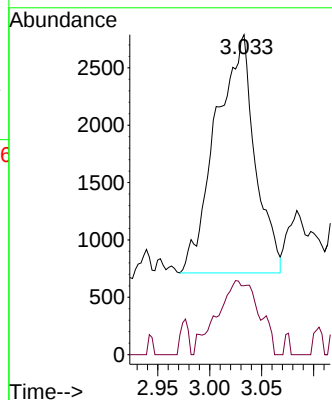
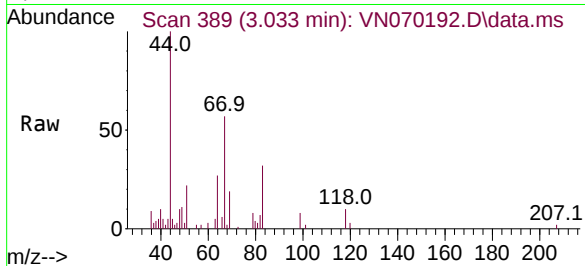




#6
Chloroethane
Concen: 0.581 ug/l
RT: 3.033 min Scan# 31
Delta R.T. 0.024 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

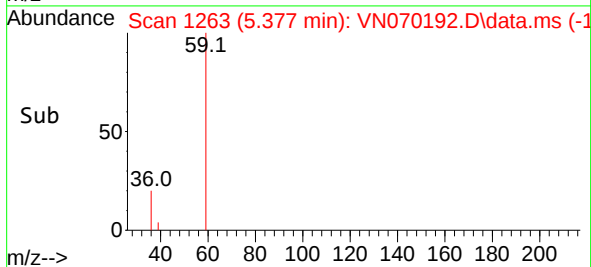
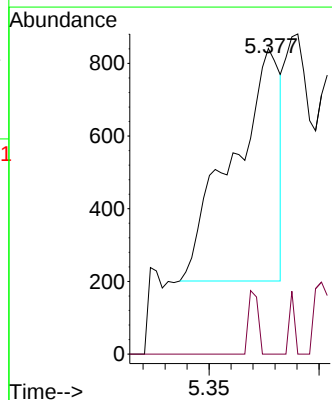
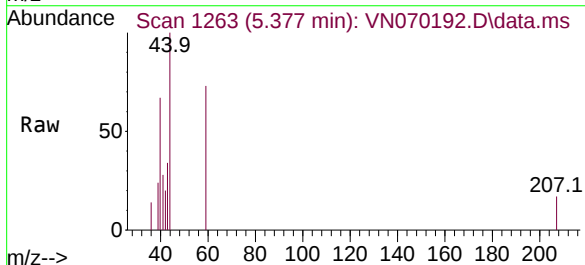
Instrument :
MSVOA_N
ClientSampleId :

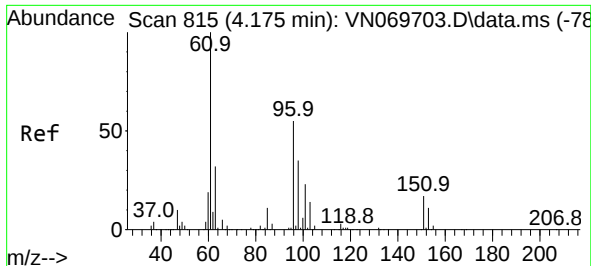
Tgt Ion: 64 Resp: 5454
Ion Ratio Lower Upper
64 100
66 28.9 26.3 39.5



#11
Tert butyl alcohol
Concen: 0.288 ug/l
RT: 5.377 min Scan# 1263
Delta R.T. -0.013 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 59 Resp: 960
Ion Ratio Lower Upper
59 100
57 5.5 8.7 13.1#

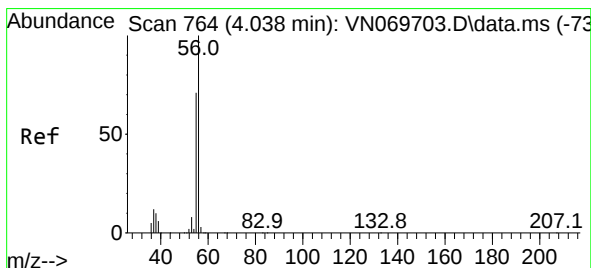
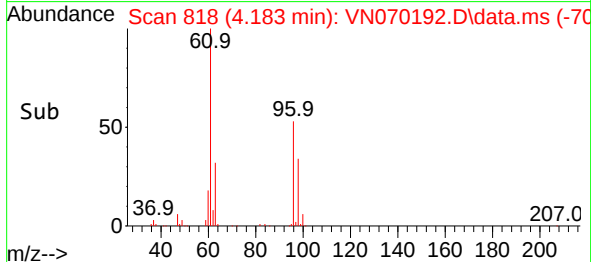
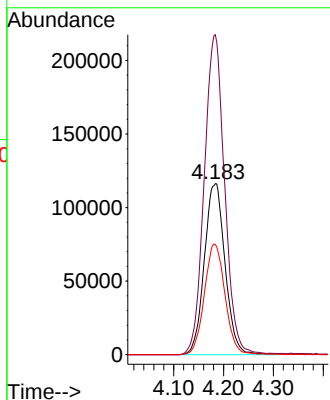
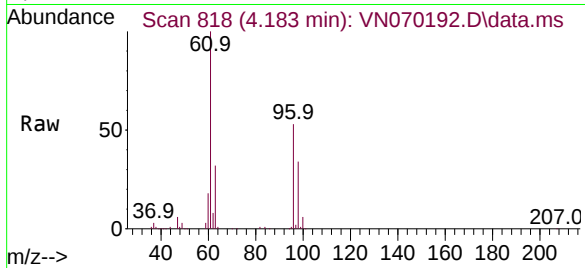




#12
1,1-Dichloroethene
Concen: 30.990 ug/l
RT: 4.183 min Scan# 815
Delta R.T. 0.008 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

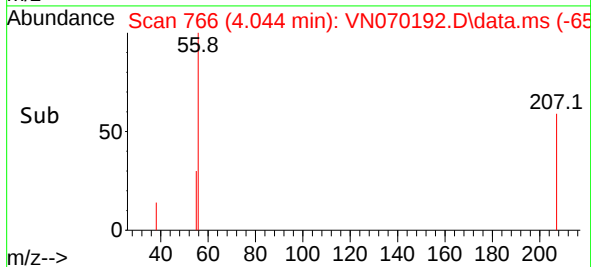
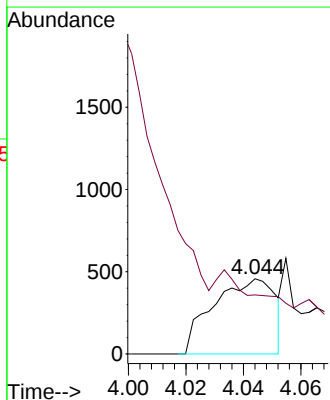
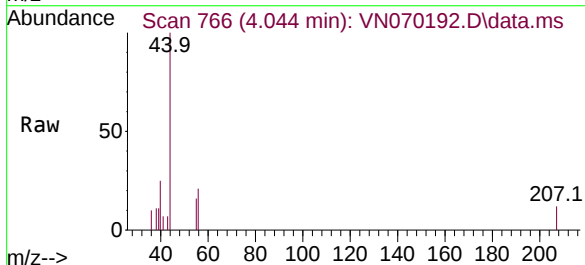
Instrument :
MSVOA_N
ClientSampleId :

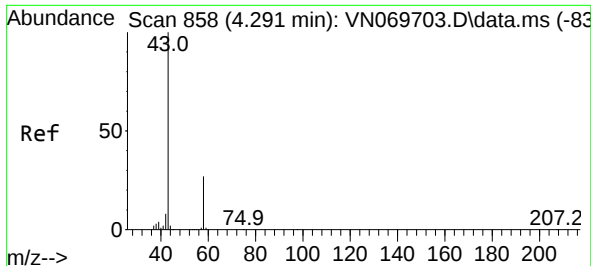
Tgt Ion: 96 Resp: 336611
Ion Ratio Lower Upper
96 100
61 187.1 131.0 196.6
98 64.5 52.4 78.6



#13
Acrolein
Concen: 0.240 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.006 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 56 Resp: 681
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#

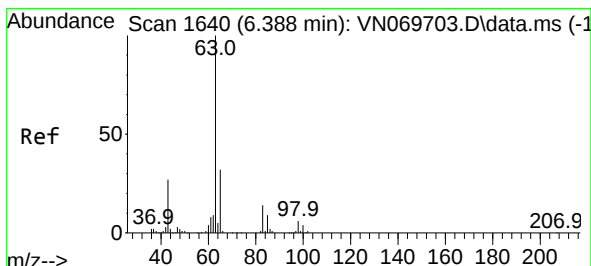
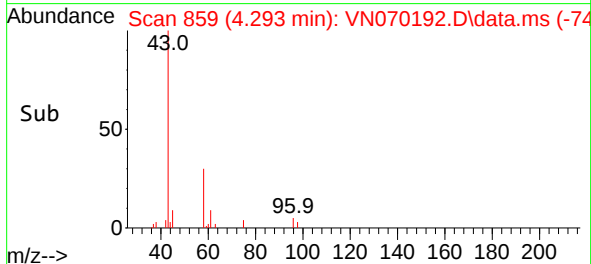
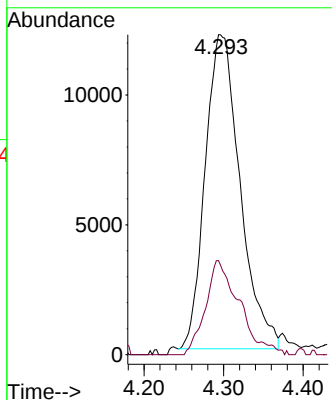
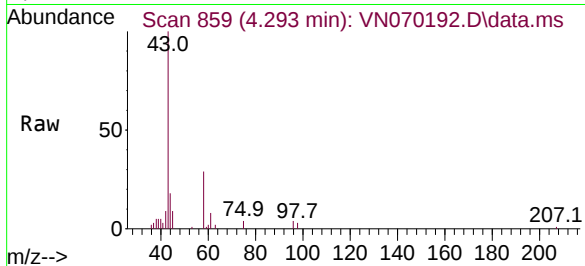




#16
Acetone
Concen: 3.488 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

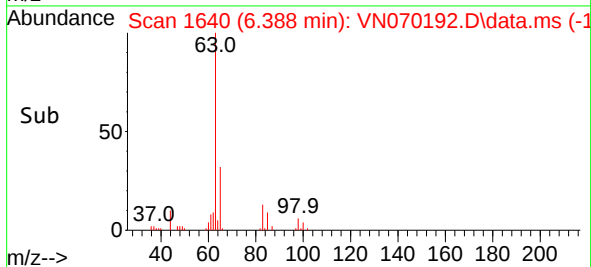
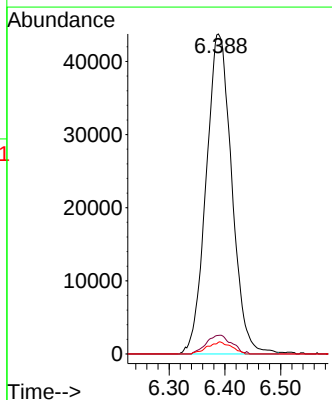
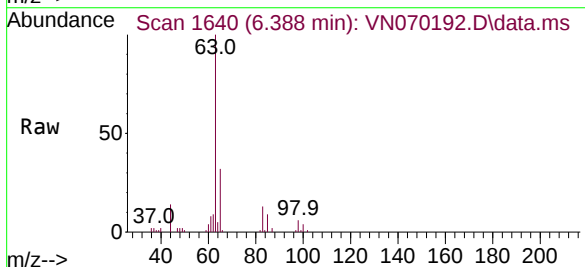
Instrument :
MSVOA_N
ClientSampleId :

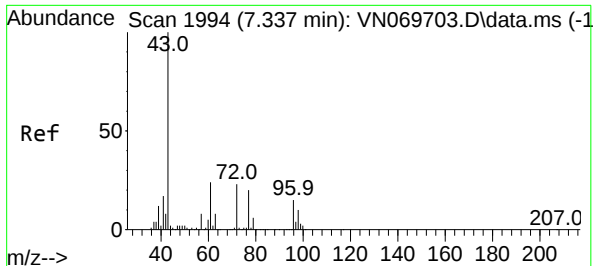
Tgt Ion: 43 Resp: 36938
Ion Ratio Lower Upper
43 100
58 30.0 23.1 34.7



#24
1,1-Dichloroethane
Concen: 5.632 ug/l
RT: 6.388 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 63 Resp: 139577
Ion Ratio Lower Upper
63 100
98 5.8 3.3 9.9
100 3.7 2.1 6.5





#25

2-Butanone

Concen: 0.286 ug/l

RT: 7.354 min Scan# 2000

Delta R.T. 0.016 min

Lab File: VN070192.D

Acq: 18 Dec 2021 4:07

Instrument :

MSVOA_N

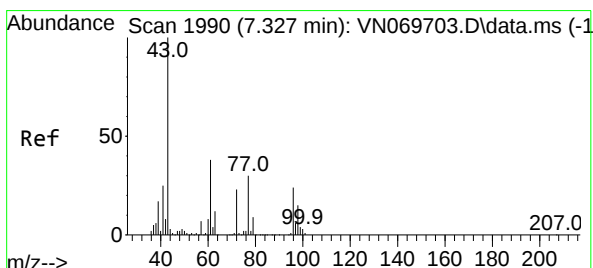
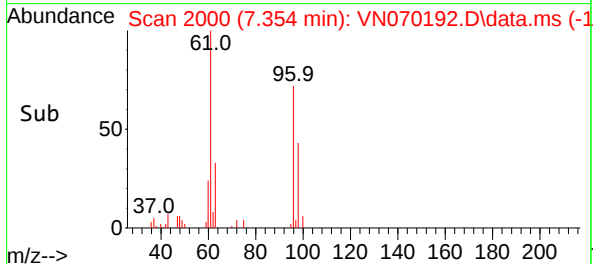
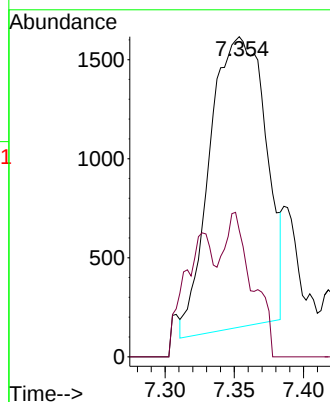
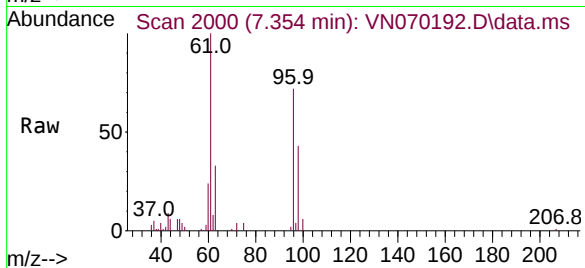
ClientSampleId :

Tgt Ion: 43 Resp: 4122

Ion Ratio Lower Upper

43 100

72 44.7 21.7 32.5#



#27

cis-1,2-Dichloroethene

Concen: 6.642 ug/l

RT: 7.324 min Scan# 1989

Delta R.T. -0.002 min

Lab File: VN070192.D

Acq: 18 Dec 2021 4:07

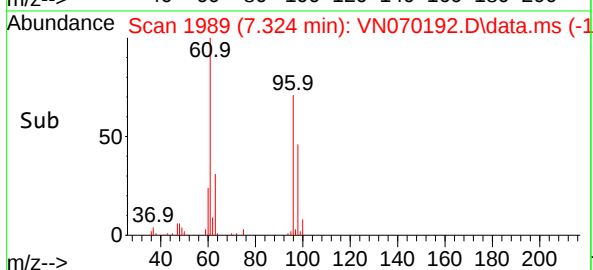
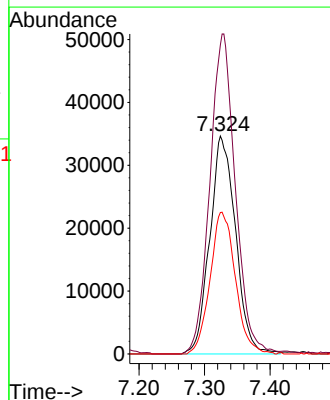
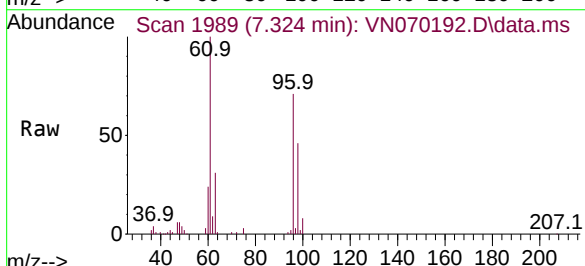
Tgt Ion: 96 Resp: 94679

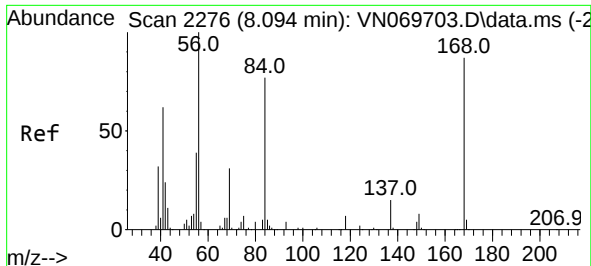
Ion Ratio Lower Upper

96 100

61 144.8 0.0 275.0

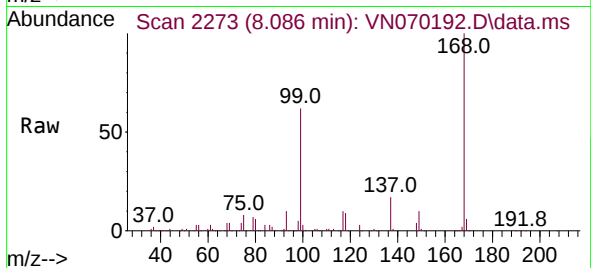
98 63.8 0.0 129.6



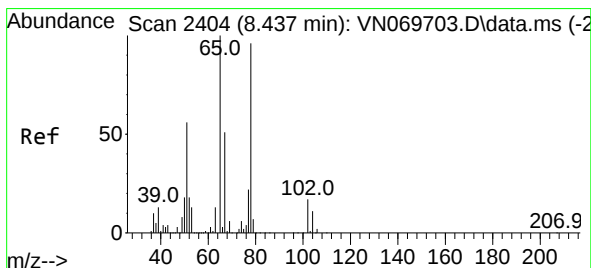
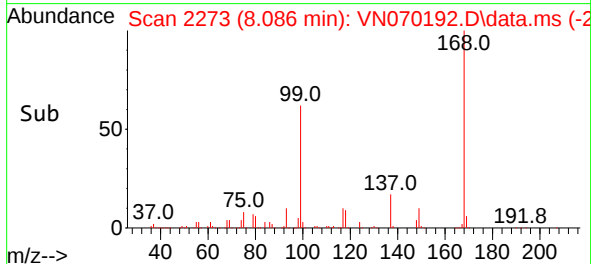
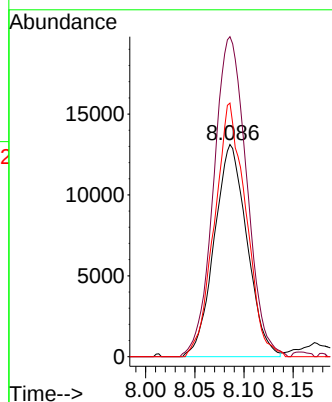


#31
Cyclohexane
Concen: 1.238 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Instrument :
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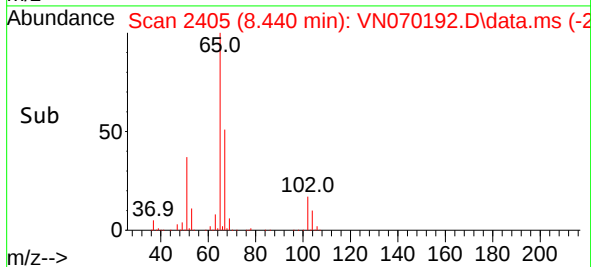
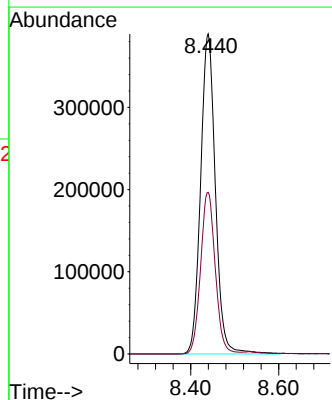
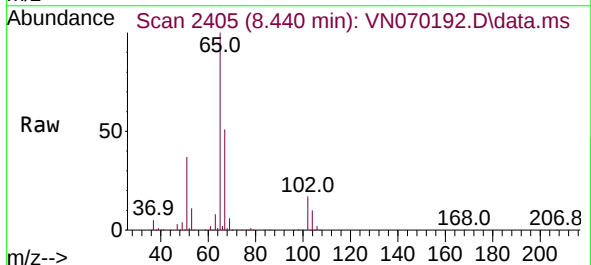


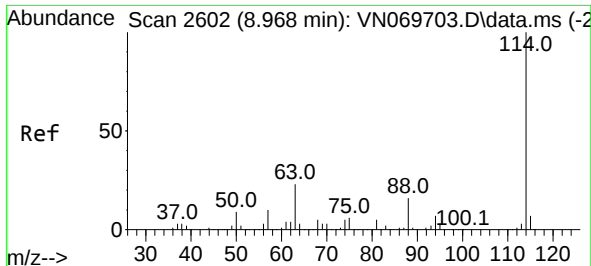
Tgt Ion: 56 Resp: 30337
Ion Ratio Lower Upper
56 100
69 150.9 27.1 40.7#
84 119.6 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 51.703 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

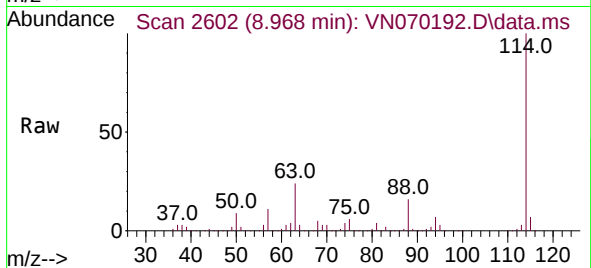
Tgt Ion: 65 Resp: 910312
Ion Ratio Lower Upper
65 100
67 50.0 0.0 103.0



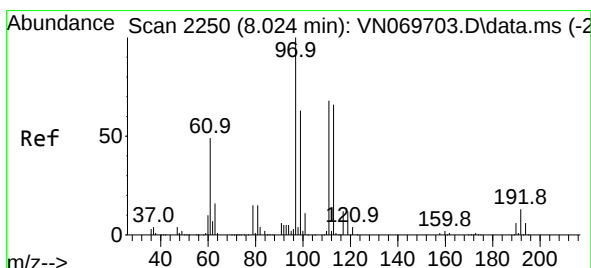
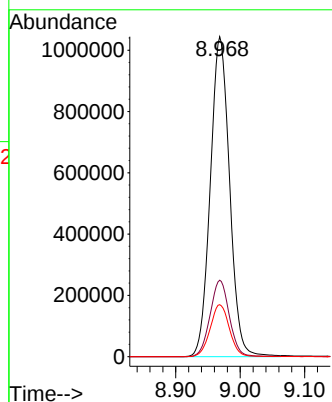
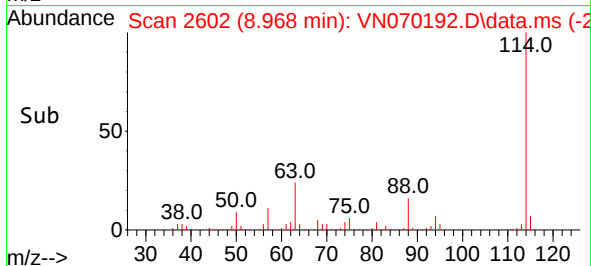


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2169273
Delta R.T. 0.000 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Instrument :
MSVOA_N
ClientSampleId :

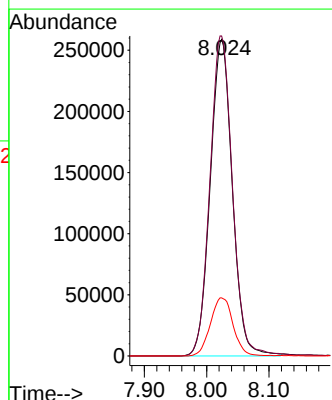
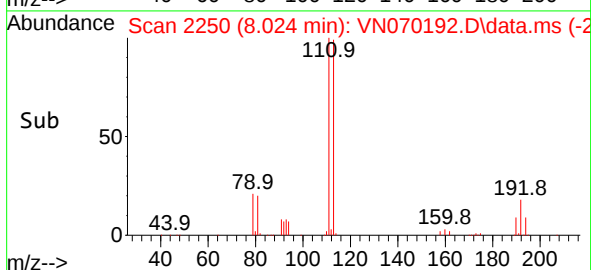
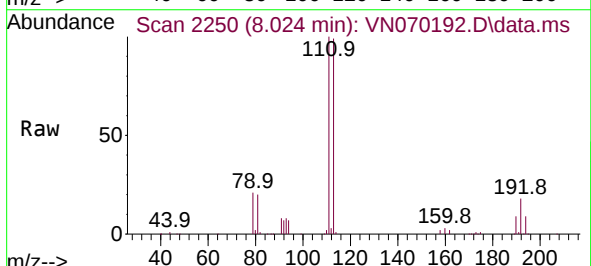


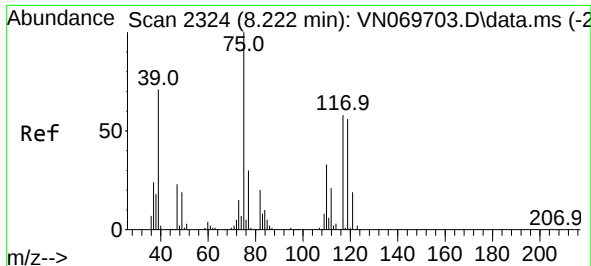
Tgt Ion:114 Resp: 2169273
Ion Ratio Lower Upper
114 100
63 23.9 0.0 37.8
88 16.2 0.0 27.4



#35
Dibromofluoromethane
Concen: 46.883 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion:113 Resp: 637046
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 18.9 16.9 25.3

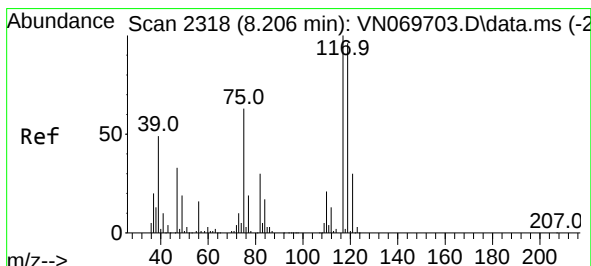
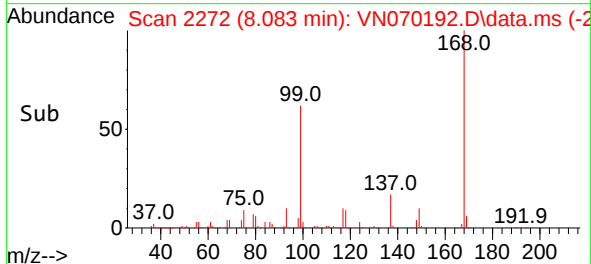
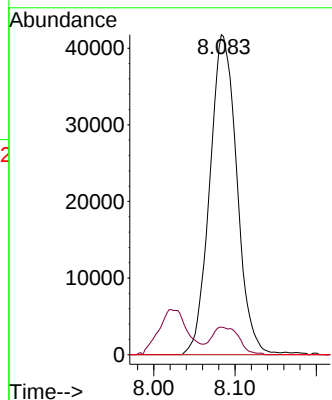
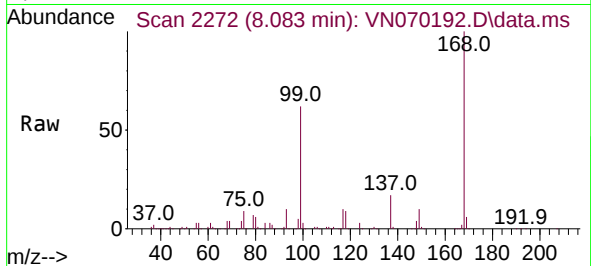




#36
 1,1-Dichloropropene
 Concen: 4.682 ug/l
 RT: 8.083 min Scan# 21
 Delta R.T. -0.139 min
 Lab File: VN070192.D
 Acq: 18 Dec 2021 4:07

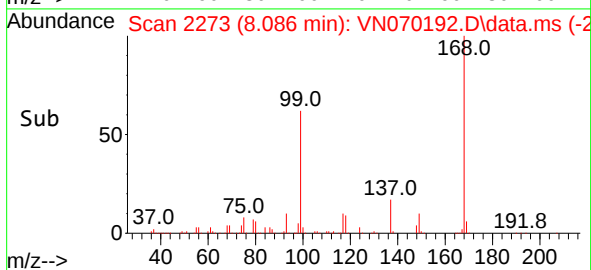
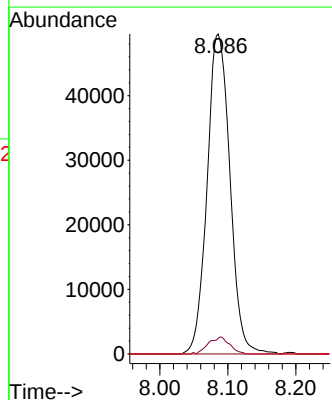
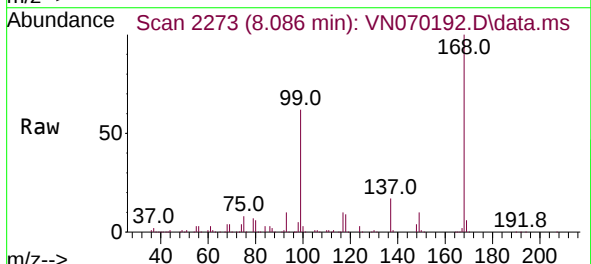
Instrument :
 MSVOA_N
 ClientSampleId :

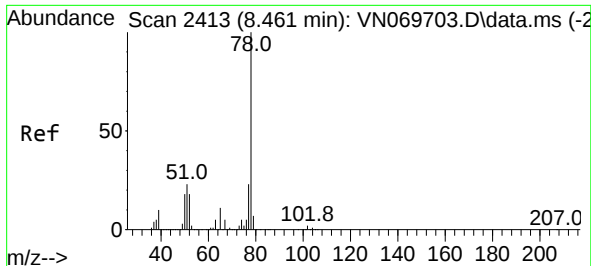
Tgt Ion: 75 Resp: 96678
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.4 55.2#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.718 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.120 min
 Lab File: VN070192.D
 Acq: 18 Dec 2021 4:07

Tgt Ion: 117 Resp: 115788
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.1 114.1#
 121 0.0 24.2 36.2#

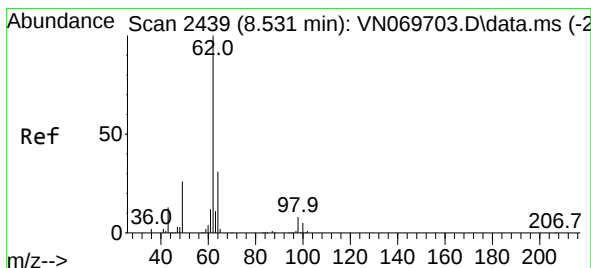
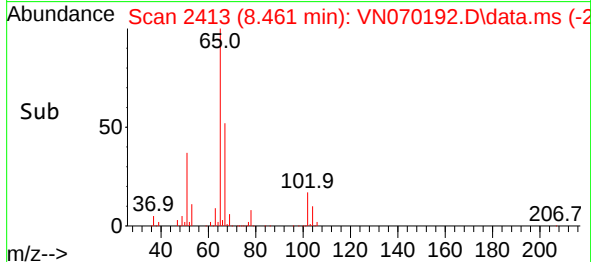
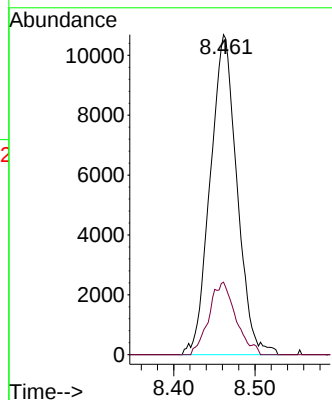
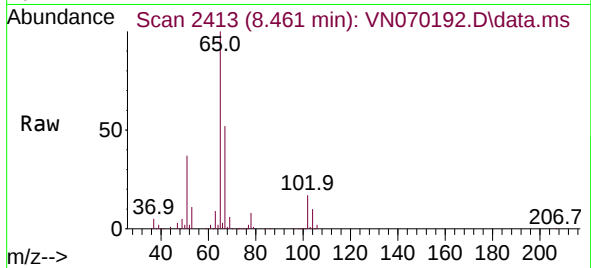




#40
Benzene
Concen: 0.388 ug/l
RT: 8.461 min Scan# 2413
Delta R.T. 0.000 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

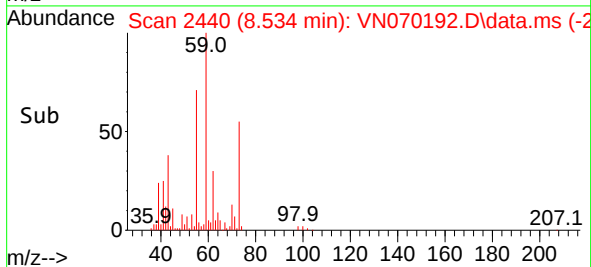
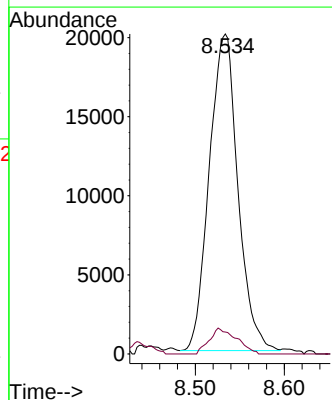
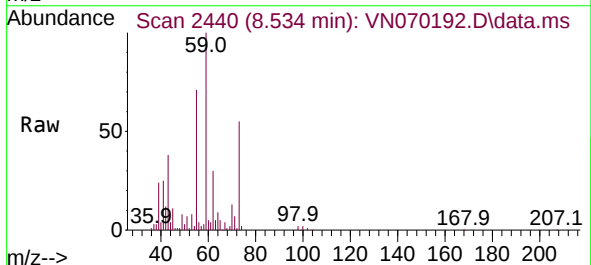
Instrument :
MSVOA_N
ClientSampleId :

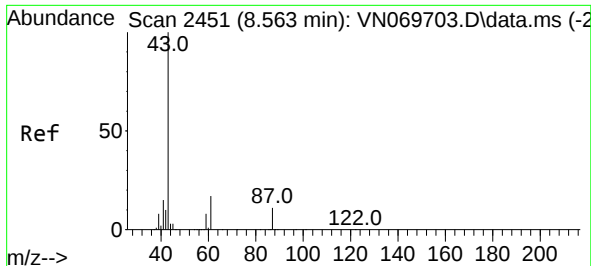
Tgt Ion: 78 Resp: 24480
Ion Ratio Lower Upper
78 100
77 22.7 18.6 27.8



#42
1,2-Dichloroethane
Concen: 1.756 ug/l
RT: 8.534 min Scan# 2440
Delta R.T. 0.003 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 62 Resp: 44756
Ion Ratio Lower Upper
62 100
98 7.7 0.0 17.6

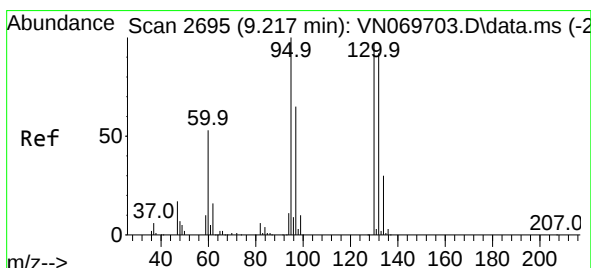
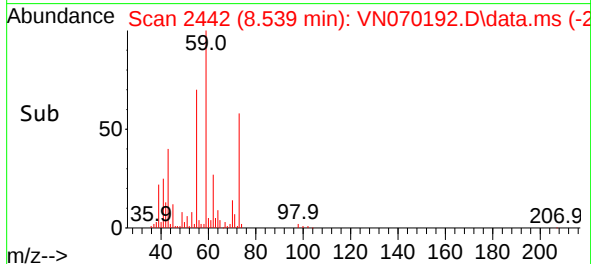
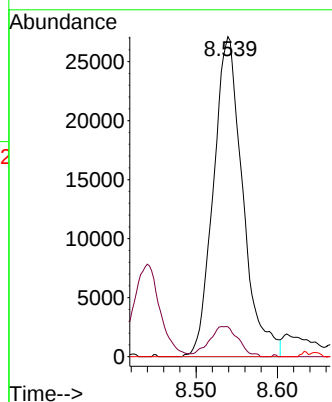
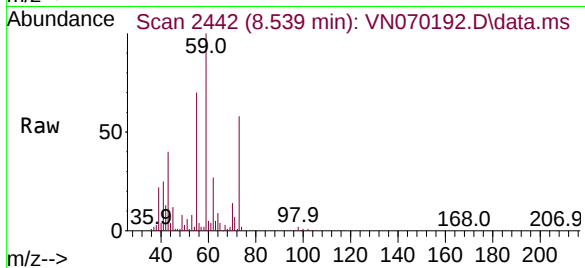




#43
Isopropyl Acetate
Concen: 1.490 ug/l
RT: 8.539 min Scan# 2451
Delta R.T. -0.024 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

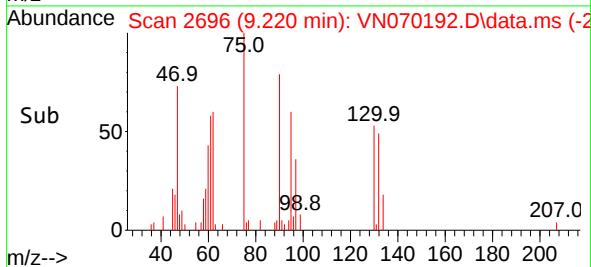
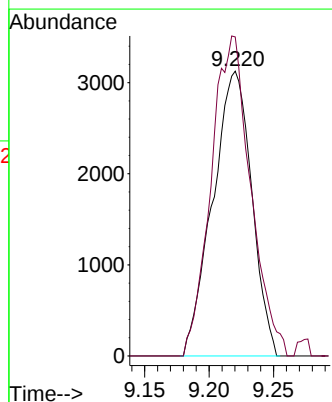
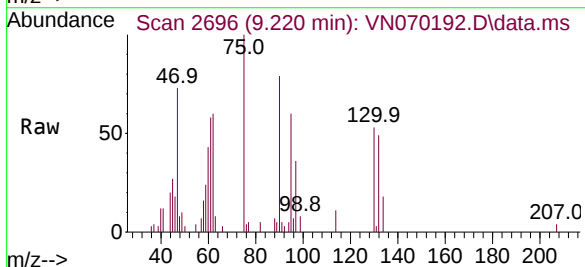
Instrument :
MSVOA_N
ClientSampleId :

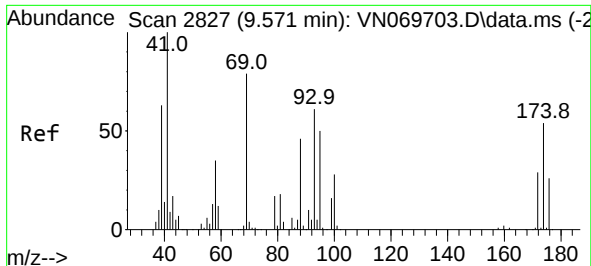
Tgt Ion: 43 Resp: 67781
Ion Ratio Lower Upper
43 100
61 9.4 20.4 30.6#
87 0.0 11.2 16.8#



#44
Trichloroethene
Concen: 0.437 ug/l
RT: 9.220 min Scan# 2696
Delta R.T. 0.003 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 130 Resp: 6579
Ion Ratio Lower Upper
130 100
95 112.0 0.0 191.2





#49

1,4-Dioxane

Concen: 389.607 ug/l

RT: 9.572 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN070192.D

Acq: 18 Dec 2021 4:07

Instrument :

MSVOA_N

ClientSampleId :

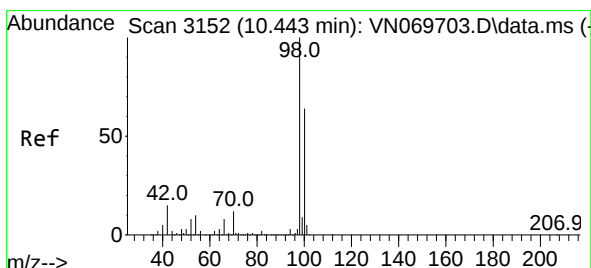
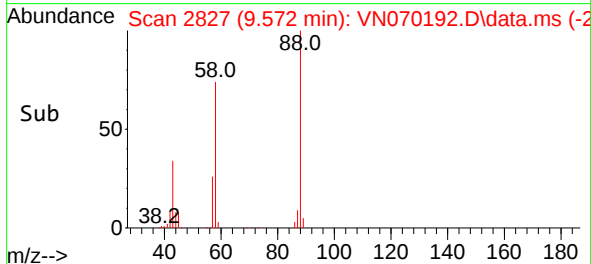
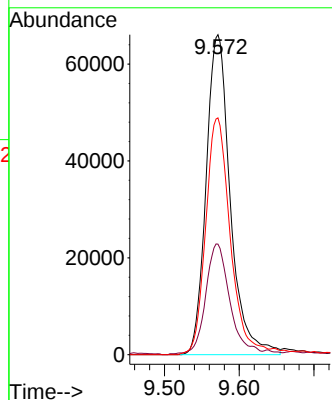
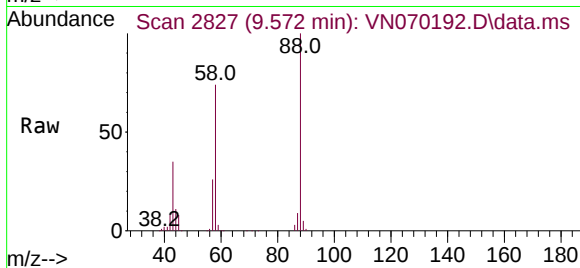
Tgt Ion: 88 Resp: 148389

Ion Ratio Lower Upper

88 100

43 34.7 23.4 35.2

58 75.1 50.6 75.8



#50

Toluene-d8

Concen: 52.997 ug/l

RT: 10.441 min Scan# 3151

Delta R.T. -0.002 min

Lab File: VN070192.D

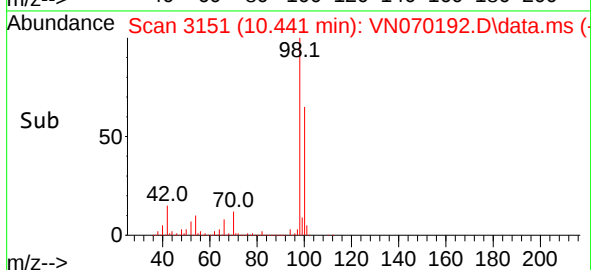
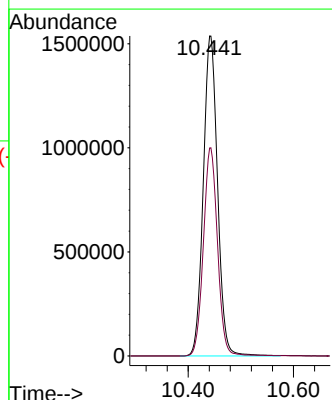
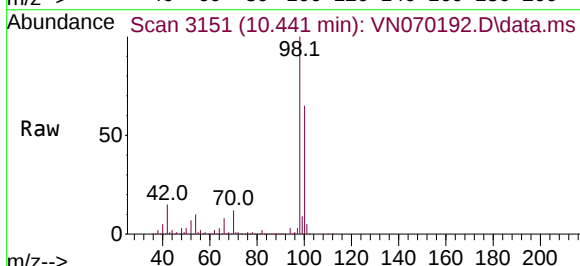
Acq: 18 Dec 2021 4:07

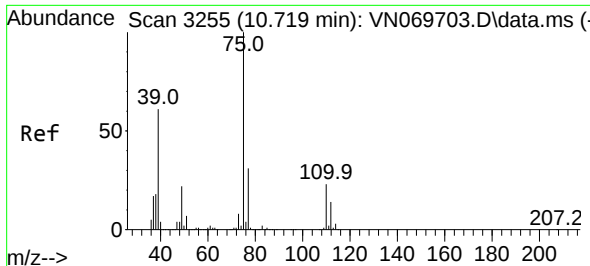
Tgt Ion: 98 Resp: 2891498

Ion Ratio Lower Upper

98 100

100 64.5 50.4 75.6

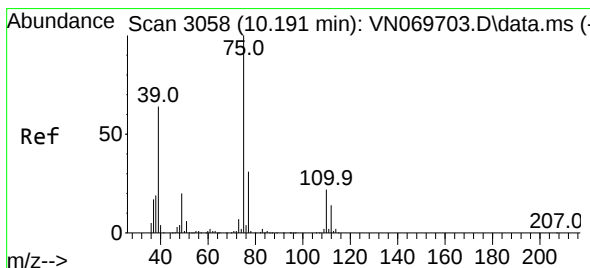
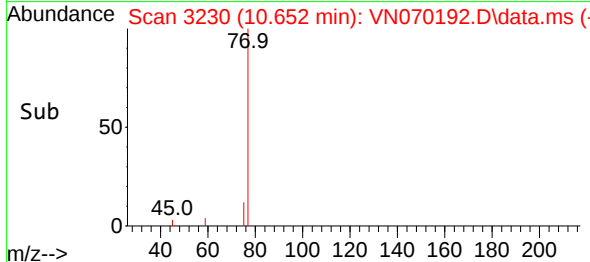
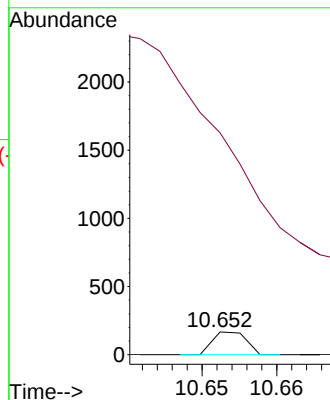
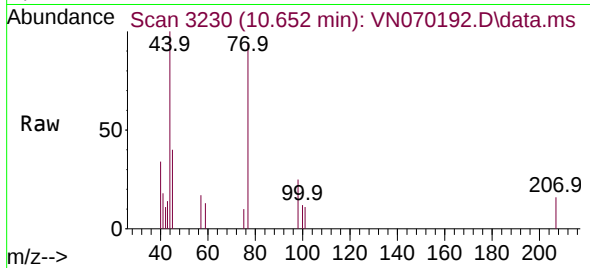




#53
t-1,3-Dichloropropene
Concen: 2.796 ug/l
RT: 10.652 min Scan# 31
Delta R.T. -0.067 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

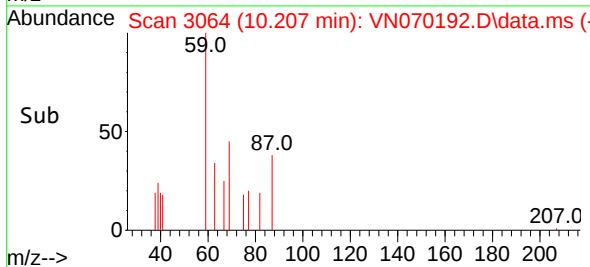
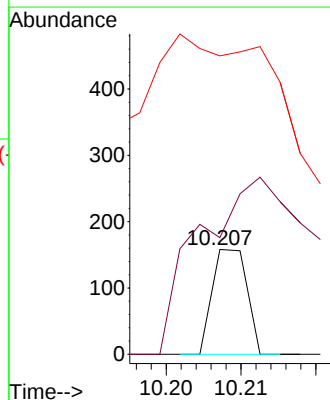
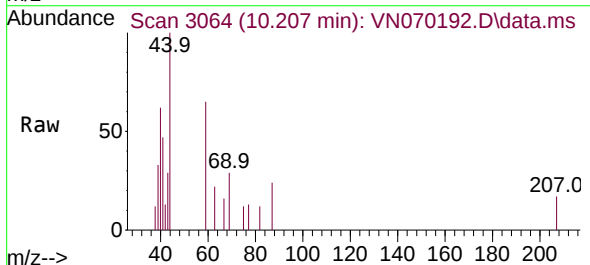
Instrument :
MSVOA_N
ClientSampleId :

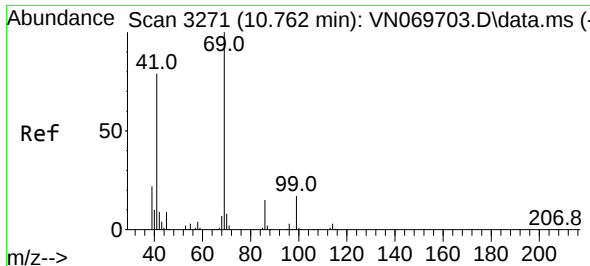
Tgt Ion: 75 Resp: 52
Ion Ratio Lower Upper
75 100
77 417.4 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.000 ug/l
RT: 10.207 min Scan# 3064
Delta R.T. 0.016 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 75 Resp: 50
Ion Ratio Lower Upper
75 100
77 10.8 26.4 39.6#
39 25.3 42.5 63.7#

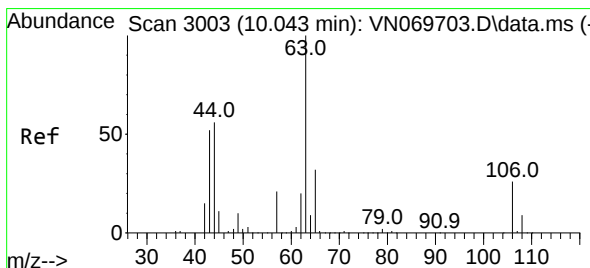
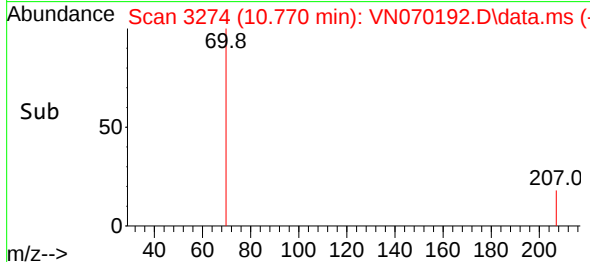
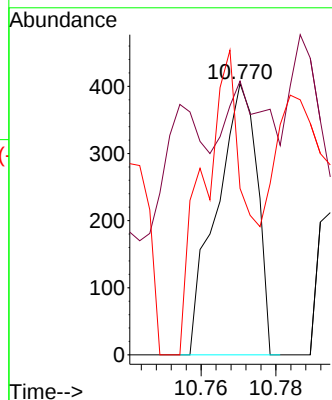
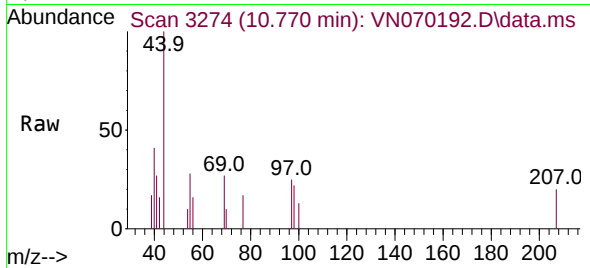




#56
Ethyl methacrylate
Concen: 2.289 ug/l
RT: 10.770 min Scan# 31
Delta R.T. 0.008 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

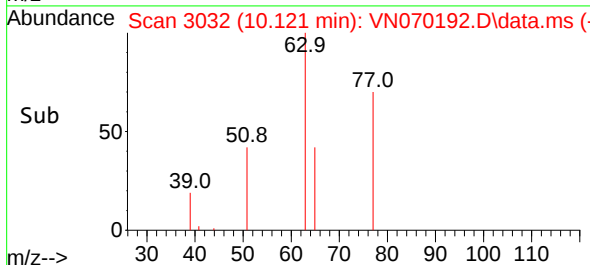
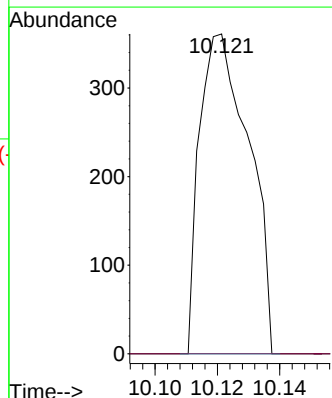
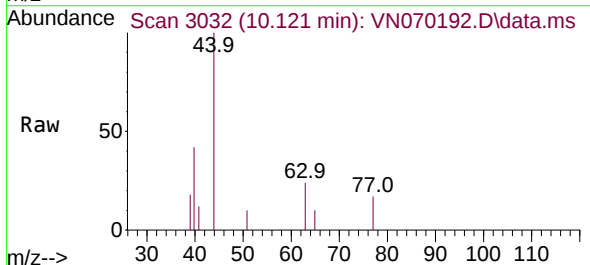
Instrument :
MSVOA_N
ClientSampleId :

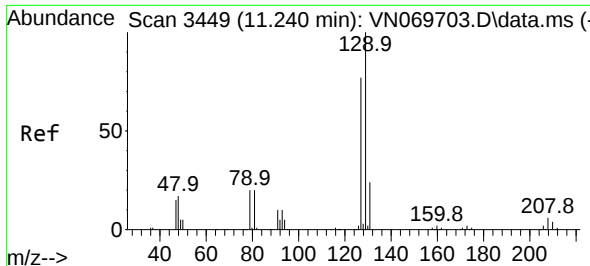
Tgt Ion: 69 Resp: 304
Ion Ratio Lower Upper
69 100
41 139.1 51.4 77.0#
39 118.4 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.435 ug/l
RT: 10.121 min Scan# 3032
Delta R.T. 0.078 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 63 Resp: 396
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

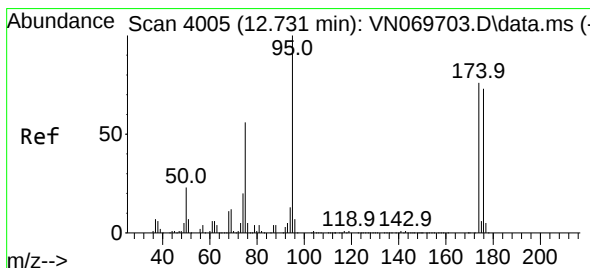
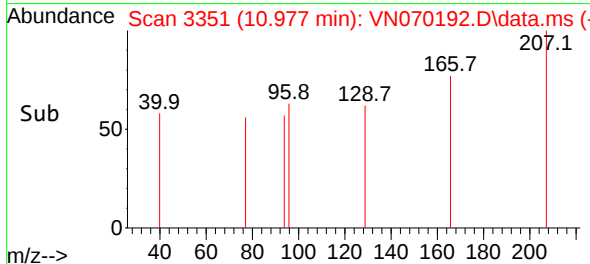
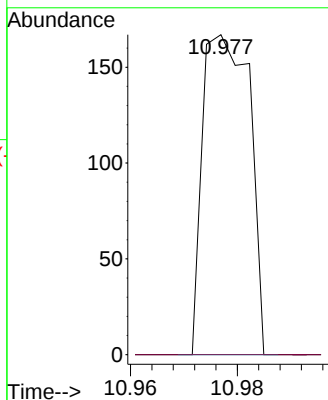
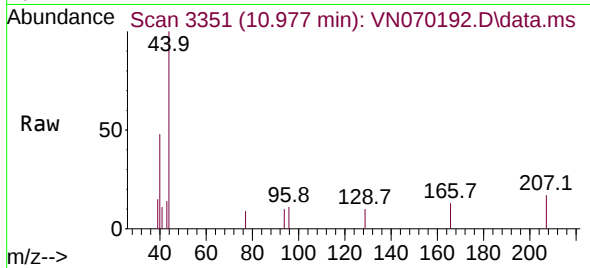




#60
Dibromochloromethane
Concen: 2.382 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

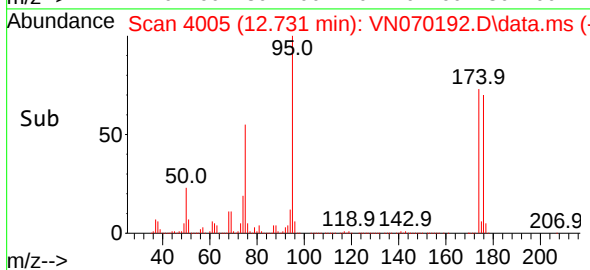
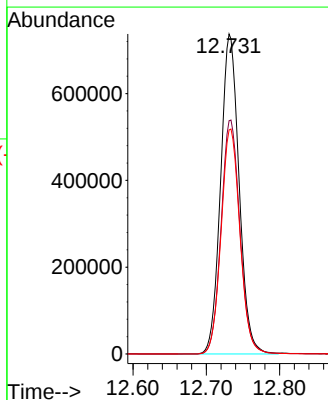
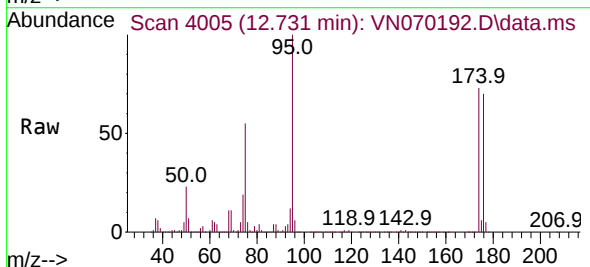
Instrument :
MSVOA_N
ClientSampleId :

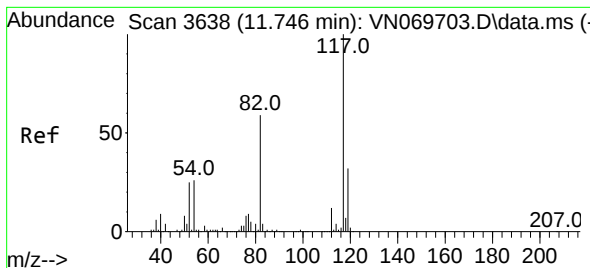
Tgt Ion:129 Resp: 102
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 65.190 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 95 Resp: 1288535
Ion Ratio Lower Upper
95 100
174 74.6 0.0 187.2
176 71.8 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.744 min Scan# 3

Delta R.T. -0.002 min

Lab File: VN070192.D

Acq: 18 Dec 2021 4:07

Instrument :

MSVOA_N

ClientSampleId :

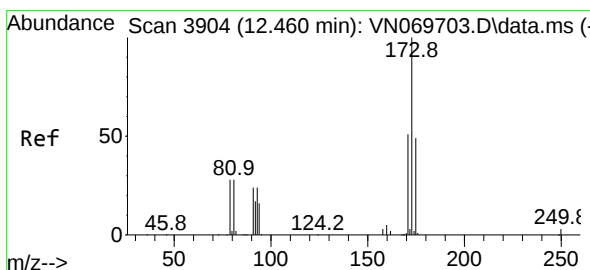
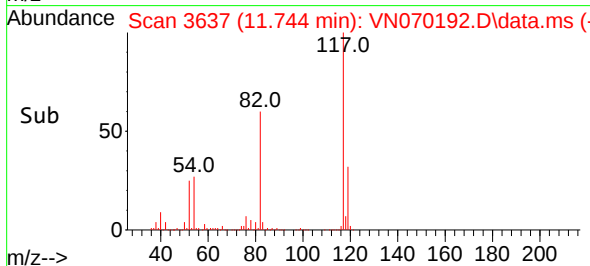
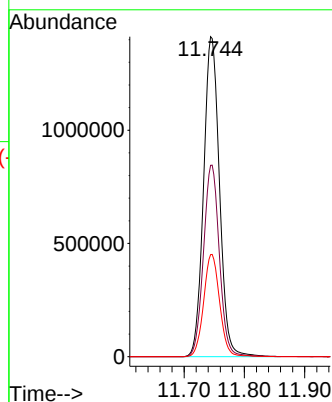
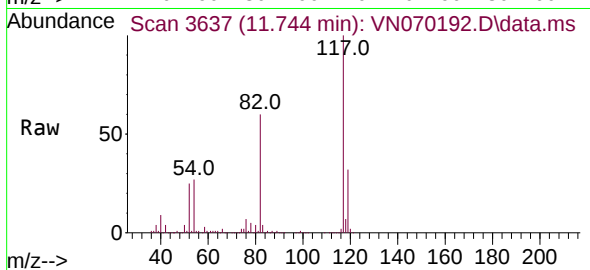
Tgt Ion:117 Resp: 2588822

Ion Ratio Lower Upper

117 100

82 59.8 42.4 63.6

119 31.9 25.4 38.2



#71

Bromoform

Concen: 2.774 ug/l

RT: 12.744 min Scan# 4010

Delta R.T. 0.284 min

Lab File: VN070192.D

Acq: 18 Dec 2021 4:07

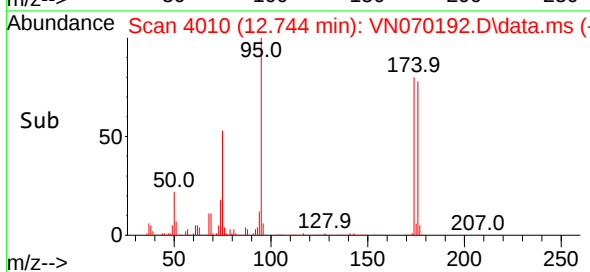
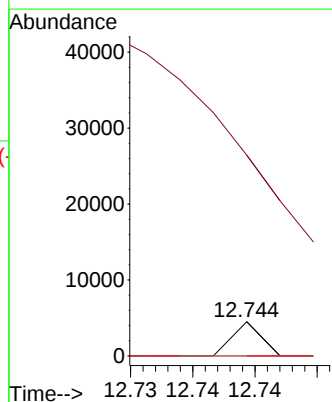
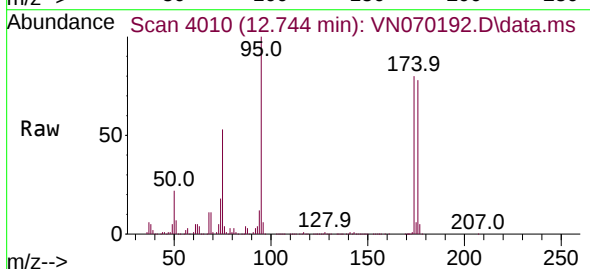
Tgt Ion:173 Resp: 725

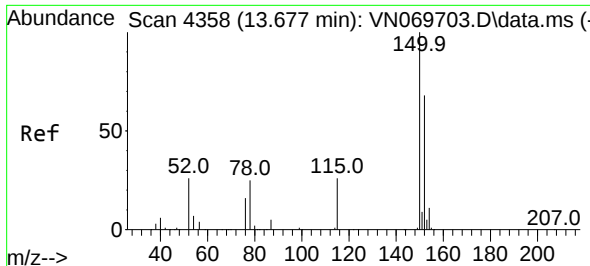
Ion Ratio Lower Upper

173 100

175 9602.2 24.2 72.6#

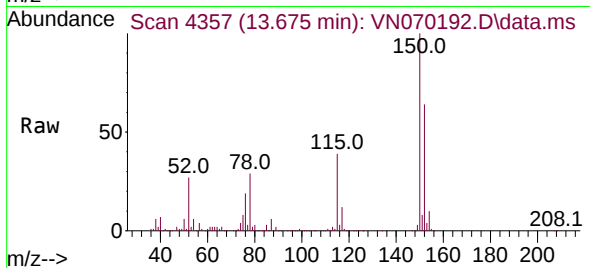
254 0.0 0.0 0.0





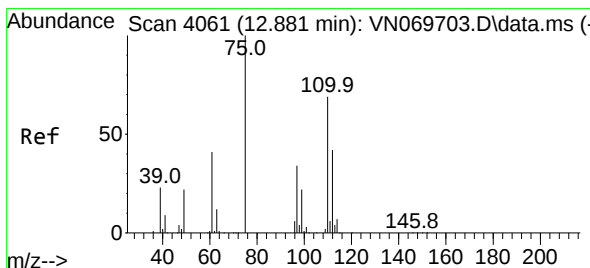
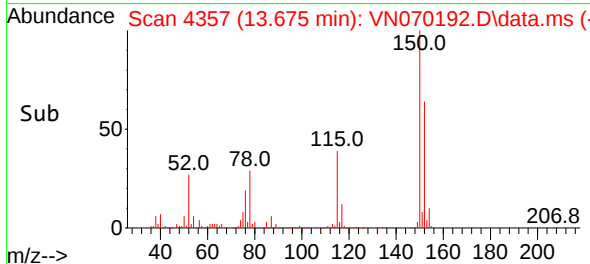
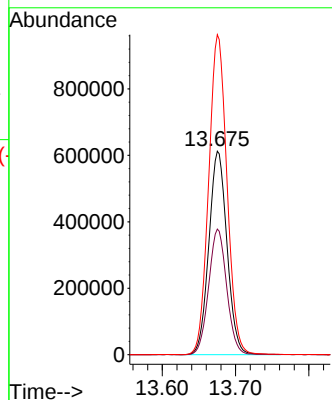
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.675 min Scan# 41
 Delta R.T. -0.002 min
 Lab File: VN070192.D
 Acq: 18 Dec 2021 4:07

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:152 Resp: 1054128

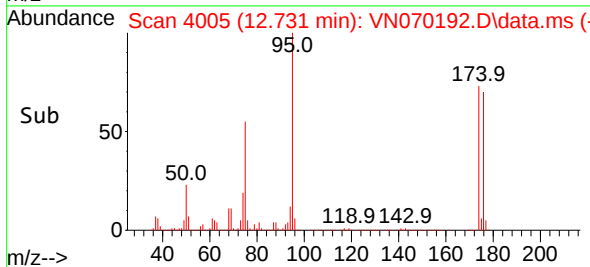
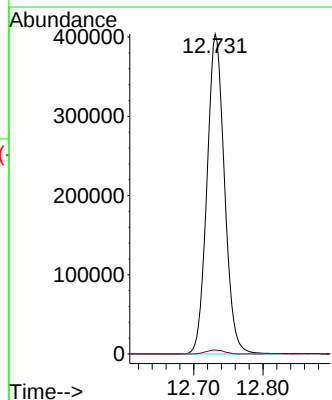
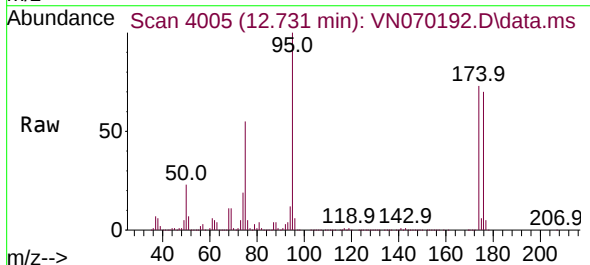
Ion	Ratio	Lower	Upper
152	100		
115	61.4	27.5	82.5
150	158.3	0.0	344.4

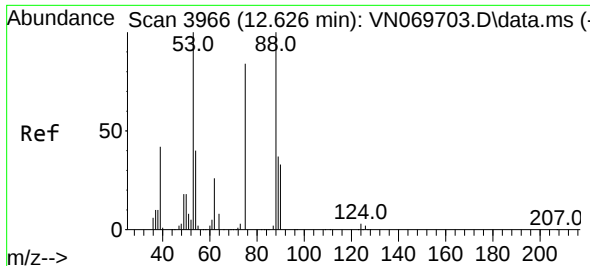


#76
 1,2,3-Trichloropropane
 Concen: 23.457 ug/l
 RT: 12.731 min Scan# 4005
 Delta R.T. -0.150 min
 Lab File: VN070192.D
 Acq: 18 Dec 2021 4:07

Tgt Ion: 75 Resp: 709103

Ion	Ratio	Lower	Upper
75	100		
77	1.3	82.6	247.8#

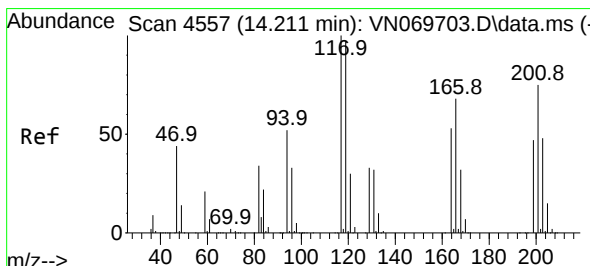
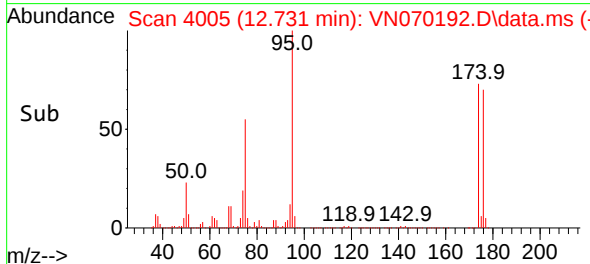
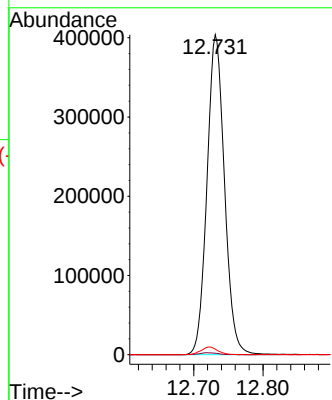
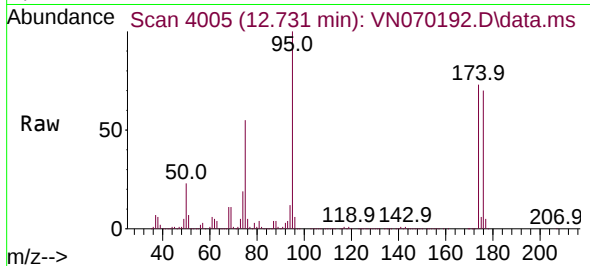




#81
trans-1,4-Dichloro-2-butene
Concen: 74.597 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

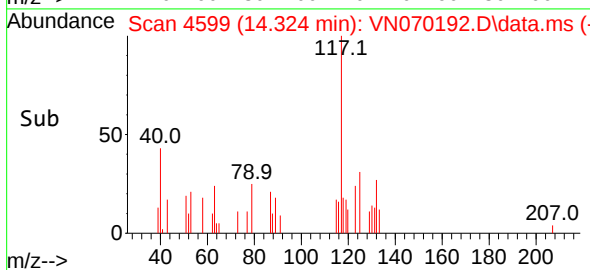
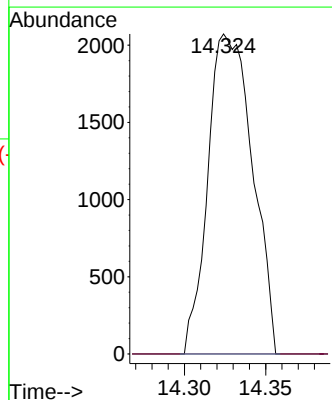
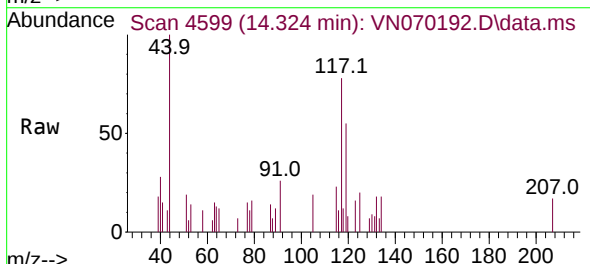
Instrument :
MSVOA_N
ClientSampleId :

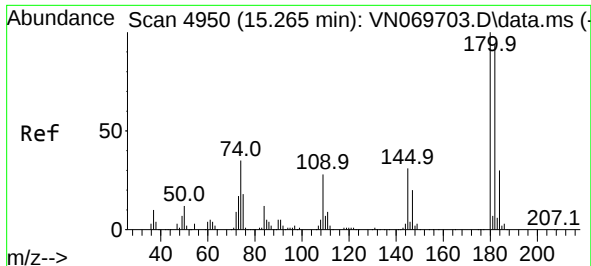
Tgt Ion: 75 Resp: 709103
Ion Ratio Lower Upper
75 100
53 0.6 90.5 135.7#
89 2.3 38.2 57.4#



#90
Hexachloroethane
Concen: 0.319 ug/l
RT: 14.324 min Scan# 4599
Delta R.T. 0.113 min
Lab File: VN070192.D
Acq: 18 Dec 2021 4:07

Tgt Ion: 117 Resp: 3964
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#





#93

1,2,4-Trichlorobenzene

Concen: 2.895 ug/l

RT: 15.268 min Scan# 4950

Delta R.T. 0.003 min

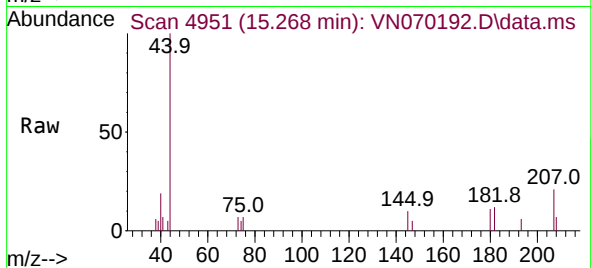
Lab File: VN070192.D

Acq: 18 Dec 2021 4:07

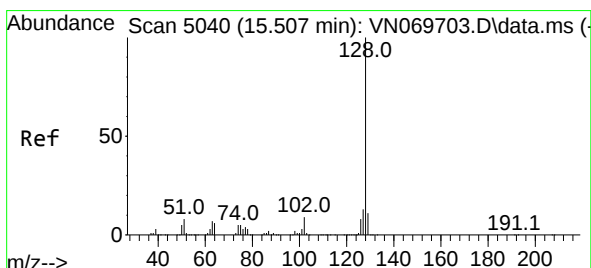
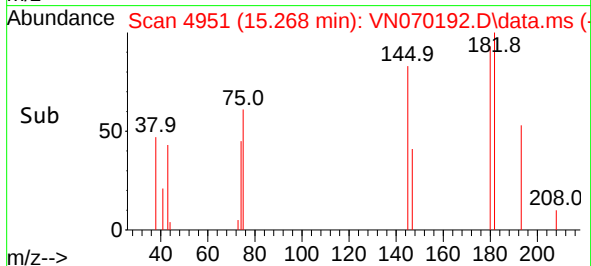
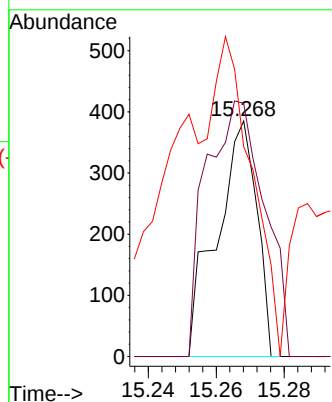
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180	Resp:	316
Ion Ratio	Lower	Upper
180	100	
182	157.0	48.3 144.9#
145	144.0	14.5 43.5#



#95

Naphthalene

Concen: 4.125 ug/l

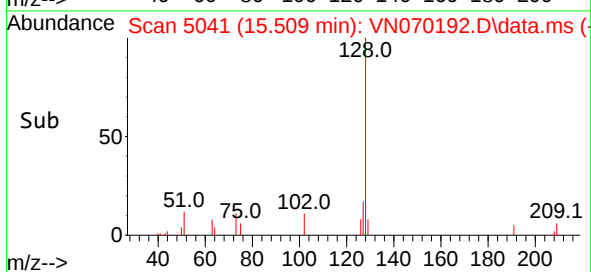
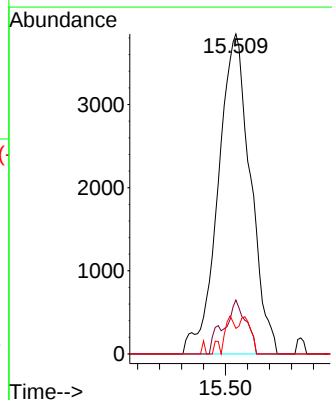
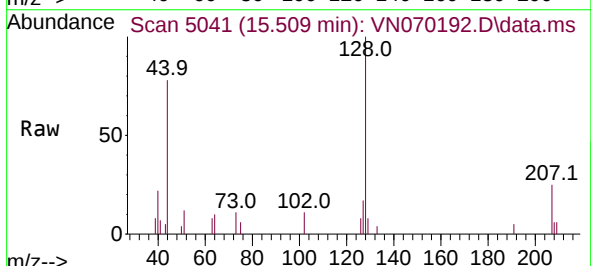
RT: 15.509 min Scan# 5041

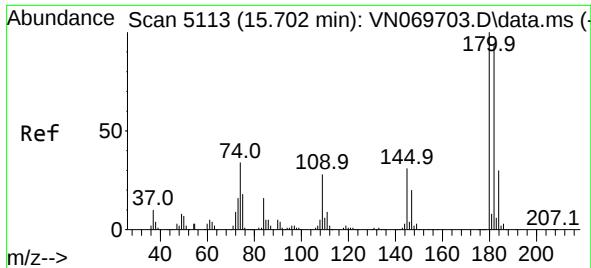
Delta R.T. 0.002 min

Lab File: VN070192.D

Acq: 18 Dec 2021 4:07

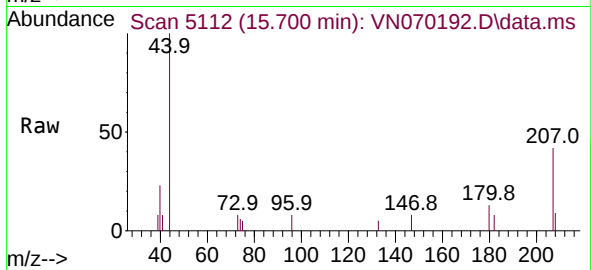
Tgt Ion:128	Resp:	7825
Ion Ratio	Lower	Upper
128	100	
127	8.8	10.5 15.7#
129	4.3	8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.468 ug/l
 RT: 15.700 min Scan# 51
 Delta R.T. -0.002 min
 Lab File: VN070192.D
 Acq: 18 Dec 2021 4:07

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 575
 Ion Ratio Lower Upper
 180 100
 182 67.0 47.4 142.2
 145 0.0 15.0 45.1#

