

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120921\
 Data File : VN069952.D
 Acq On : 10 Dec 2021 9:17
 Operator : JC/MD
 Sample : M4967-14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11D

Quant Time: Dec 10 11:27:53 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)

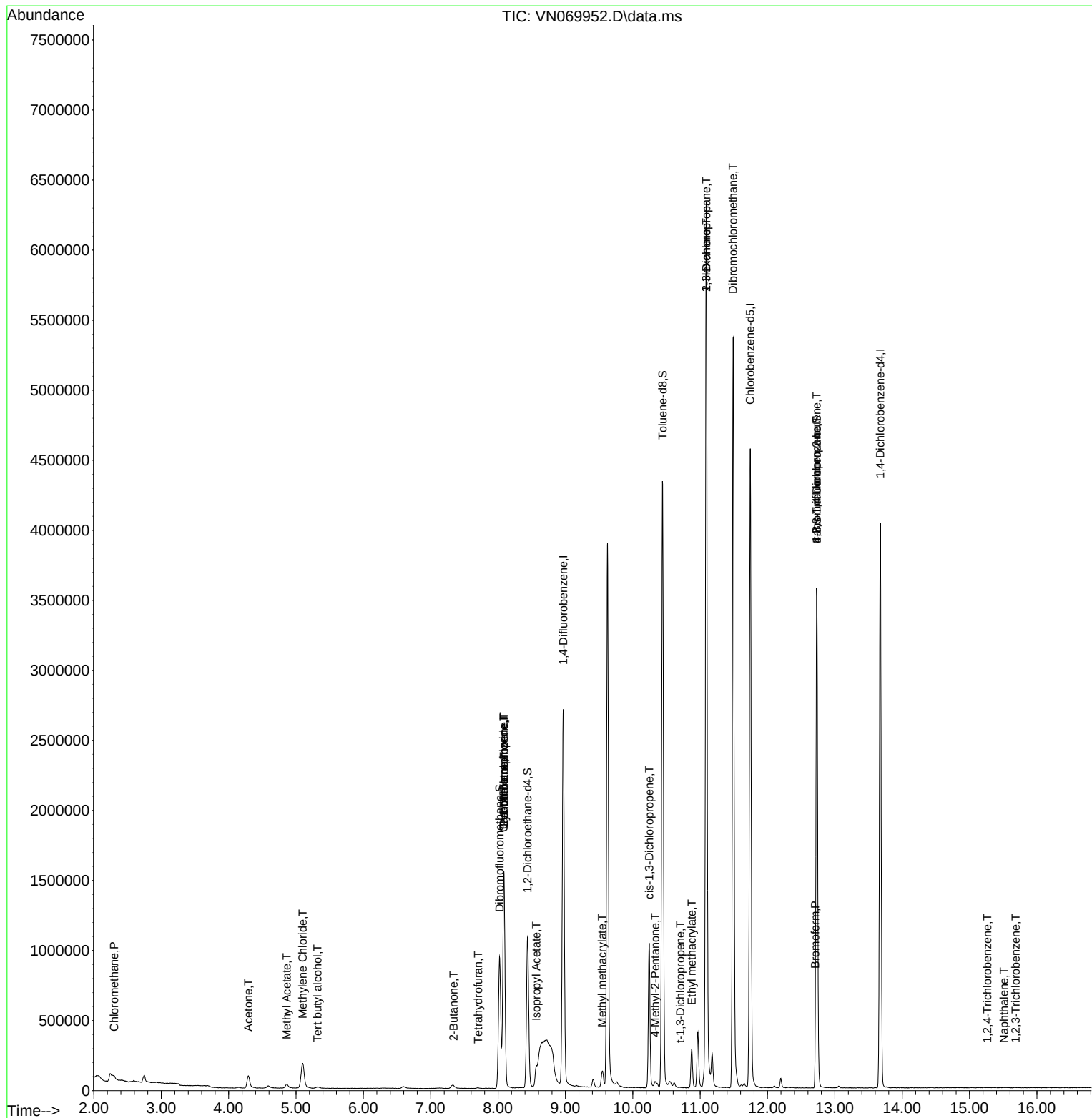
Internal Standards						
1) Pentafluorobenzene	8.086	168	1131825	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2210177	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2523648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1046846	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	927962	53.101	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 106.200%	
35) Dibromofluoromethane	8.021	113	683599	49.378	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 98.760%	
50) Toluene-d8	10.443	98	2935986	52.816	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 105.640%	
62) 4-Bromofluorobenzene	12.731	95	1220945	60.627	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 121.260%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.301	50	3373	0.204	ug/l #	87
11) Tert butyl alcohol	5.318	59	6827	2.067	ug/l #	72
16) Acetone	4.293	43	164330	15.632	ug/l	99
18) Methyl Acetate	4.865	43	60294	1.900	ug/l #	87
20) Methylene Chloride	5.098	84	128855	9.221	ug/l #	81
25) 2-Butanone	7.340	43	20406	1.429	ug/l	90
29) Tetrahydrofuran	7.705	42	3182	0.367	ug/l #	53
31) Cyclohexane	8.088	56	29810	1.226	ug/l #	26
36) 1,1-Dichloropropene	8.086	75	98363	4.675	ug/l #	49
38) Carbon Tetrachloride	8.083	117	116200	5.632	ug/l #	17
43) Isopropyl Acetate	8.568	43	152584	3.293	ug/l #	79
48) Methyl methacrylate	9.545	41	33733	1.560	ug/l #	20
51) 4-Methyl-2-Pentanone	10.333	43	22412	0.745	ug/l	98
53) t-1,3-Dichloropropene	10.706	75	24	2.795	ug/l #	12
54) cis-1,3-Dichloropropene	10.245	75	163967	7.813	ug/l #	72
56) Ethyl methacrylate	10.875	69	1460	2.326	ug/l #	1
57) 1,3-Dichloropropane	11.092	76	63174	2.265	ug/l #	43
59) 2-Hexanone	11.089	43	1151871	50.650	ug/l #	48
60) Dibromochloromethane	11.489	129	772	2.420	ug/l #	11
71) Bromoform	12.709	173	183	2.742	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	683746	22.775	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	683746	72.548	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.265	180	90	2.883	ug/l #	12
95) Naphthalene	15.509	128	2002	4.021	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.686	180	24	2.437	ug/l #	12

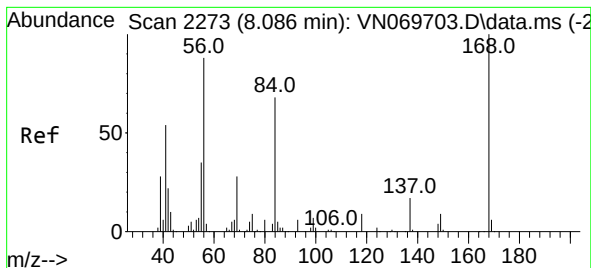
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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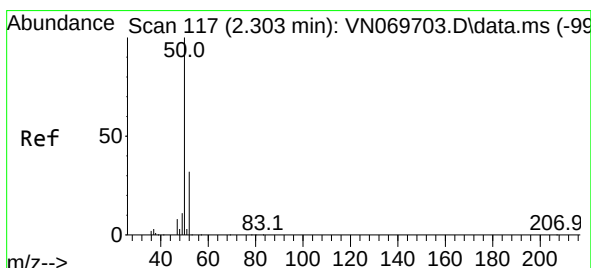
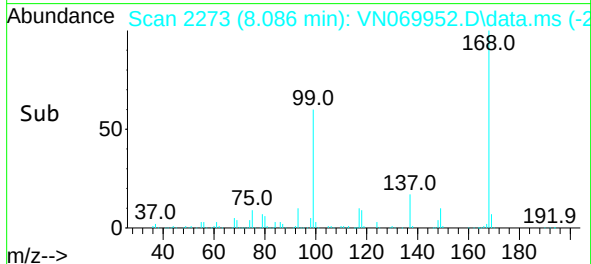
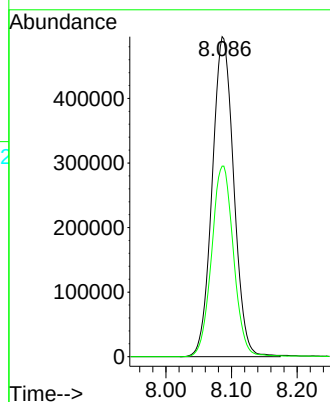
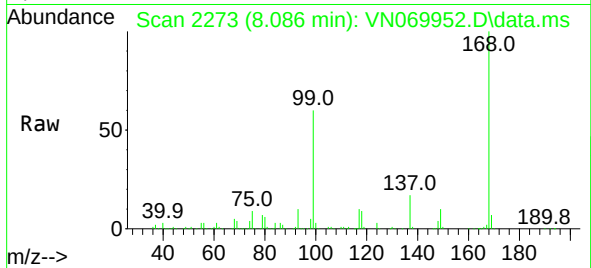




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

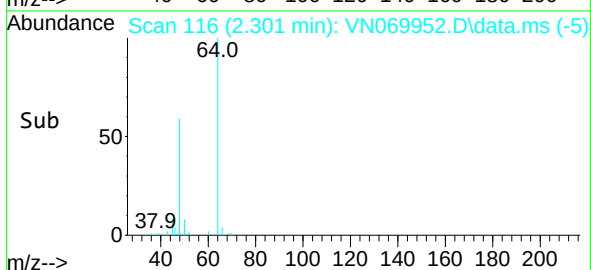
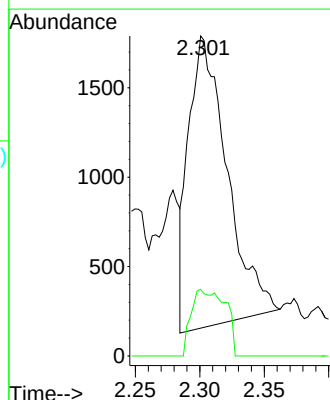
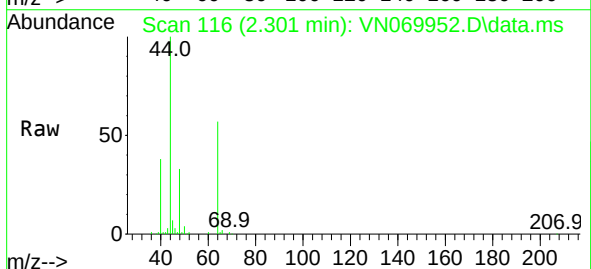
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

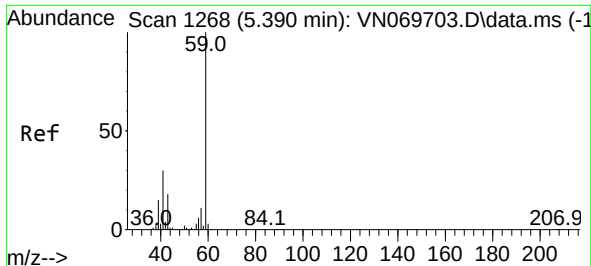
Tgt Ion:168 Resp: 1131825
Ion Ratio Lower Upper
168 100
99 59.5 41.3 61.9



#3
Chloromethane
Concen: 0.204 ug/l
RT: 2.301 min Scan# 116
Delta R.T. -0.003 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 50 Resp: 3373
Ion Ratio Lower Upper
50 100
52 24.3 25.4 38.0#

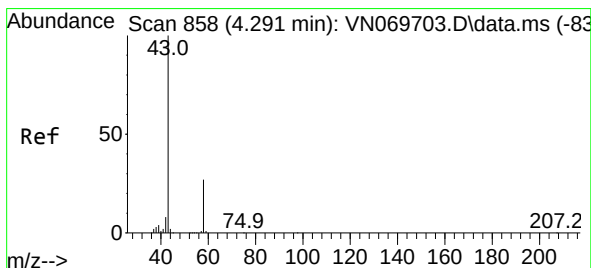
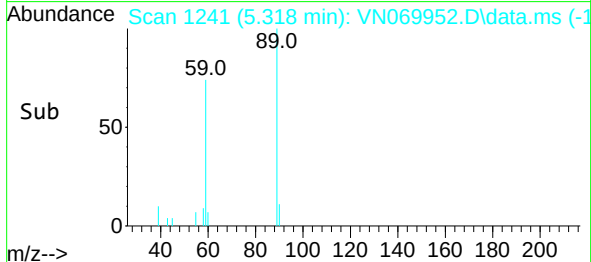
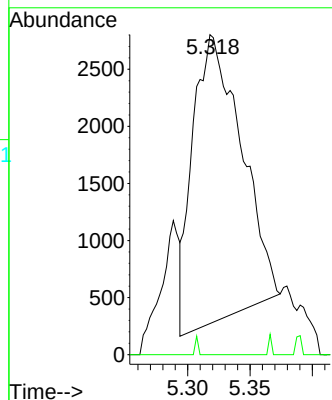
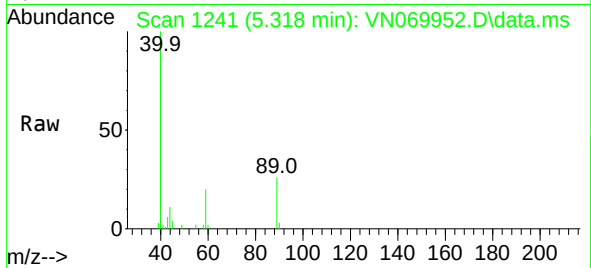




#11
Tert butyl alcohol
Concen: 2.067 ug/l
RT: 5.318 min Scan# 11
Delta R.T. -0.072 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

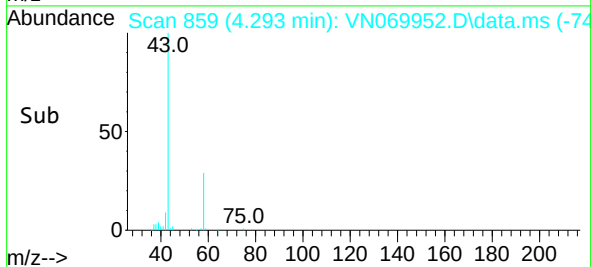
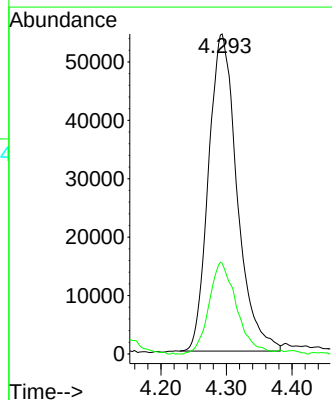
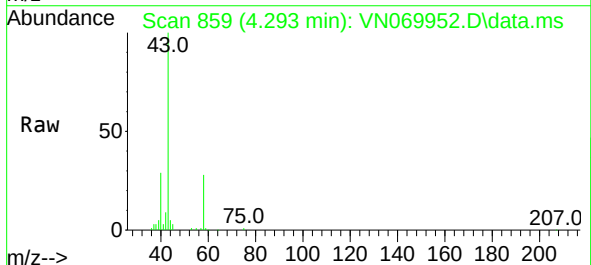
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

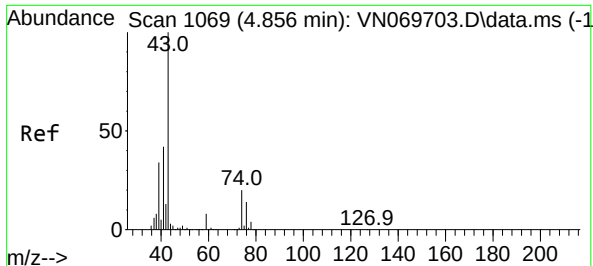
Tgt Ion: 59 Resp: 6827
Ion Ratio Lower Upper
59 100
57 0.4 8.7 13.1#



#16
Acetone
Concen: 15.632 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 43 Resp: 164330
Ion Ratio Lower Upper
43 100
58 28.6 23.1 34.7





#18

Methyl Acetate

Concen: 1.900 ug/l

RT: 4.865 min Scan# 1069

Delta R.T. 0.008 min

Lab File: VN069952.D

Acq: 10 Dec 2021 9:17

Instrument :

MSVOA_N

ClientSampleId :

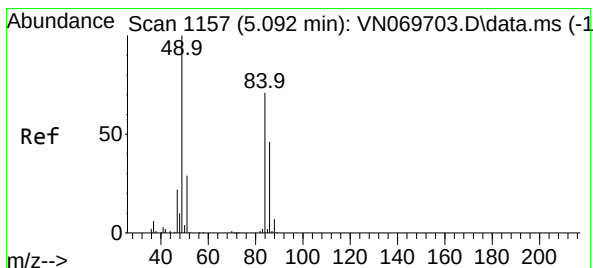
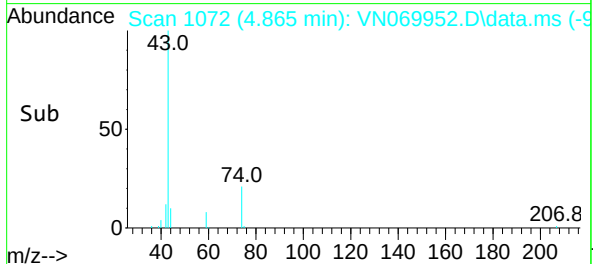
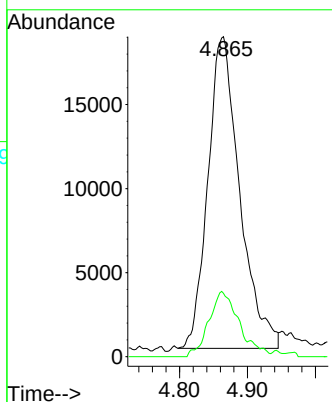
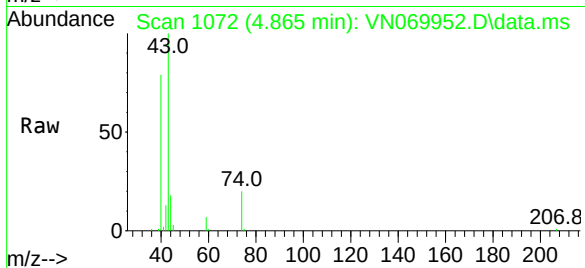
TP-11D

Tgt Ion: 43 Resp: 60294

Ion Ratio Lower Upper

43 100

74 18.1 19.4 29.2#



#20

Methylene Chloride

Concen: 9.221 ug/l

RT: 5.098 min Scan# 1159

Delta R.T. 0.006 min

Lab File: VN069952.D

Acq: 10 Dec 2021 9:17

Tgt Ion: 84 Resp: 128855

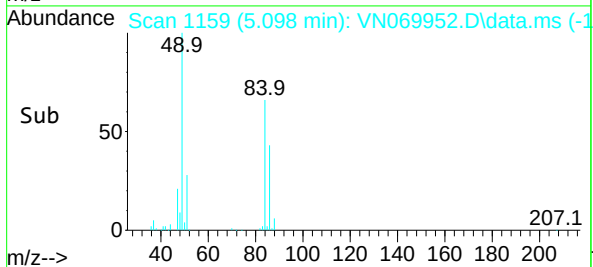
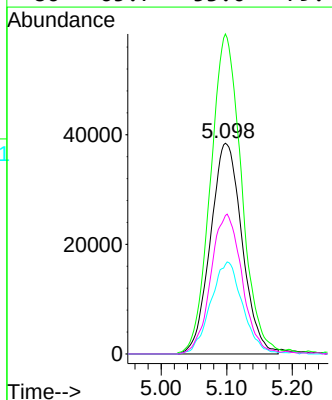
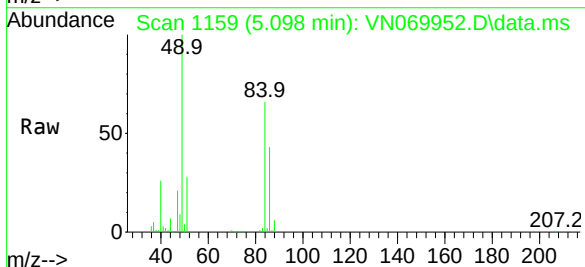
Ion Ratio Lower Upper

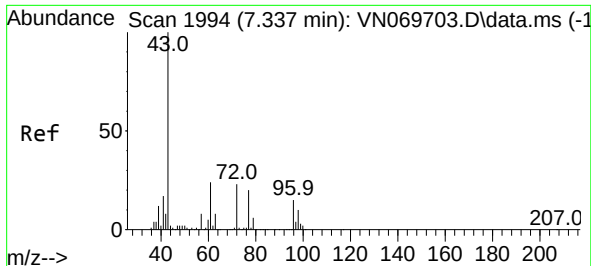
84 100

49 151.3 93.5 140.3#

51 42.5 29.4 44.2

86 65.7 53.0 79.4





#25

2-Butanone

Concen: 1.429 ug/l

RT: 7.340 min Scan# 1994

Delta R.T. 0.003 min

Lab File: VN069952.D

Acq: 10 Dec 2021 9:17

Instrument :

MSVOA_N

ClientSampleId :

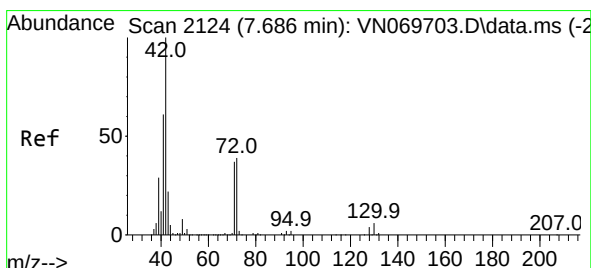
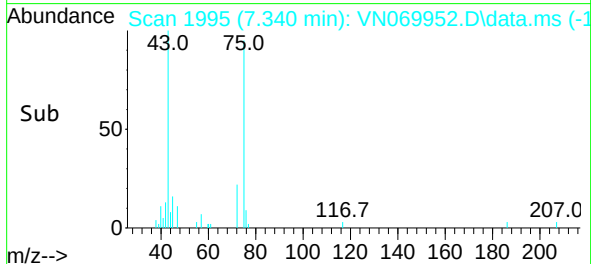
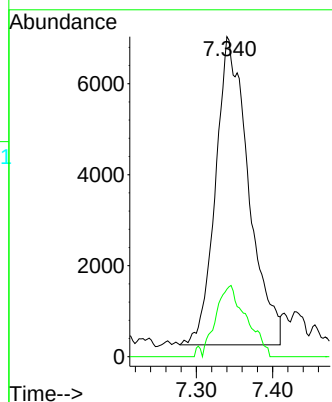
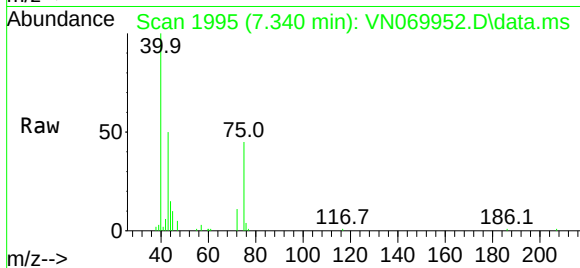
TP-11D

Tgt Ion: 43 Resp: 20406

Ion Ratio Lower Upper

43 100

72 21.9 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.367 ug/l

RT: 7.705 min Scan# 2131

Delta R.T. 0.019 min

Lab File: VN069952.D

Acq: 10 Dec 2021 9:17

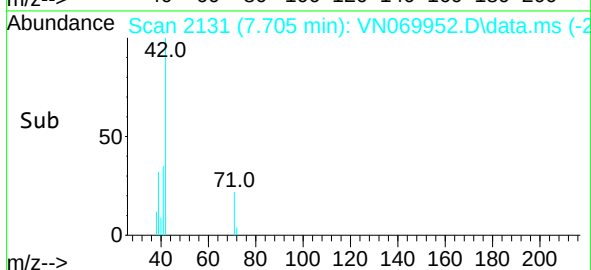
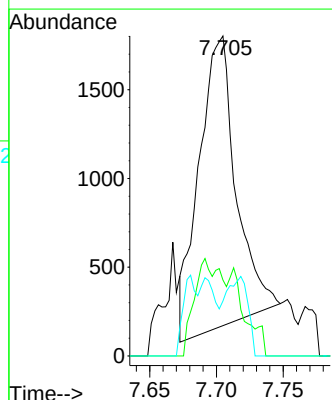
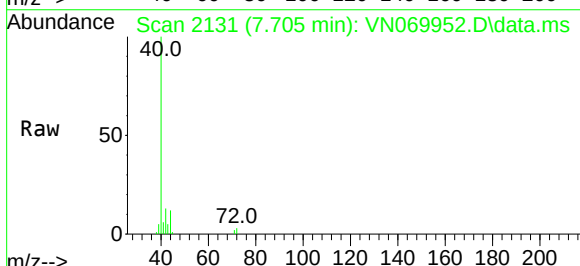
Tgt Ion: 42 Resp: 3182

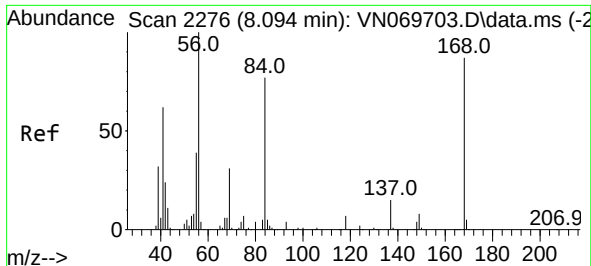
Ion Ratio Lower Upper

42 100

72 16.0 36.3 54.5#

71 11.1 34.7 52.1#

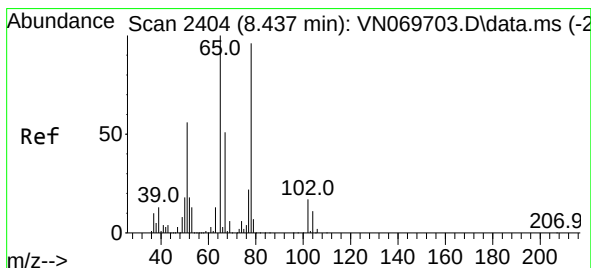
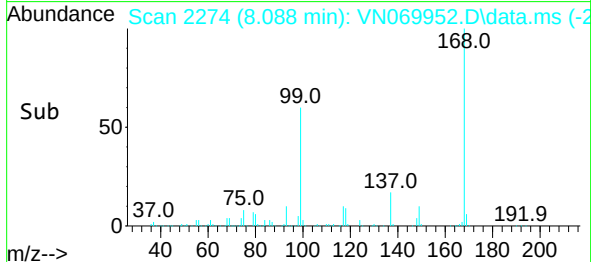
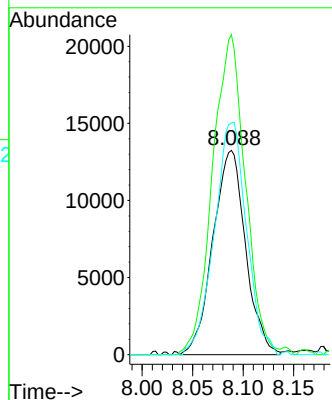
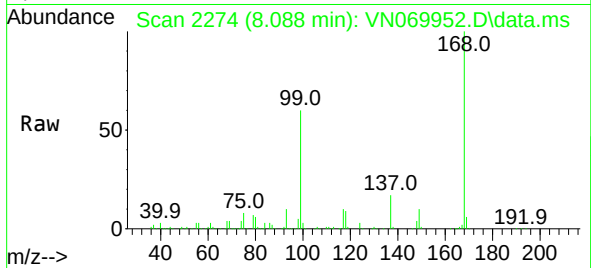




#31
Cyclohexane
Concen: 1.226 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

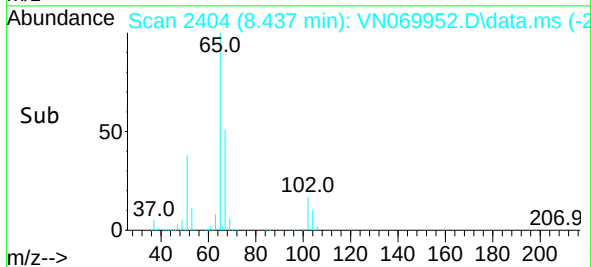
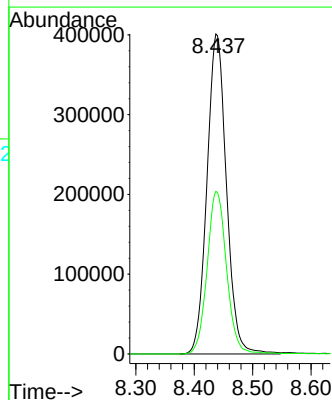
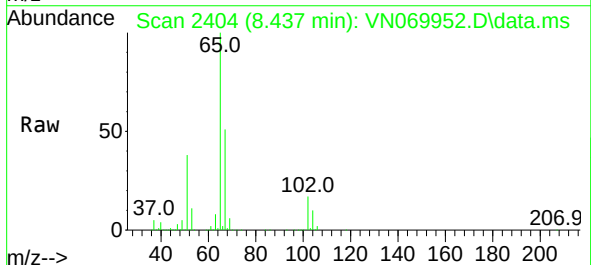
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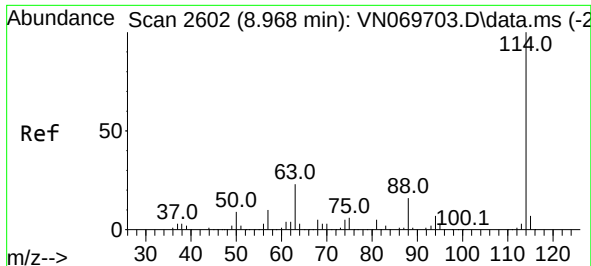
Tgt Ion: 56 Resp: 29810
Ion Ratio Lower Upper
56 100
69 155.0 27.1 40.7#
84 113.4 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 53.101 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. 0.000 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 65 Resp: 927962
Ion Ratio Lower Upper
65 100
67 50.8 0.0 103.0

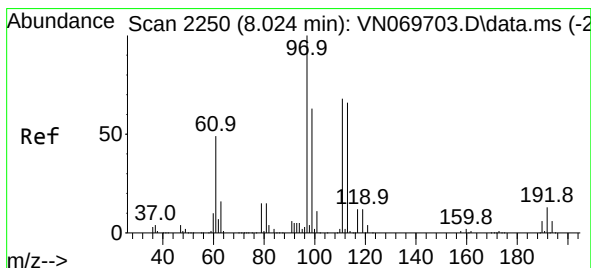
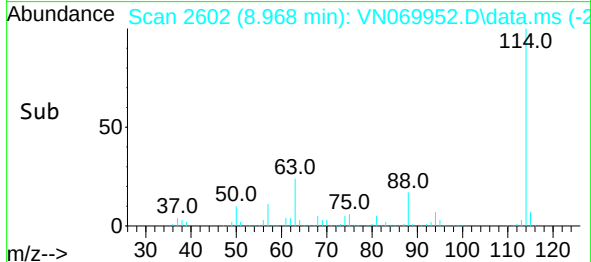
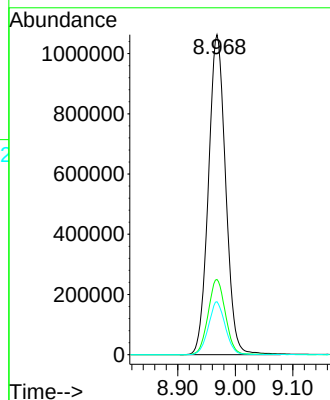
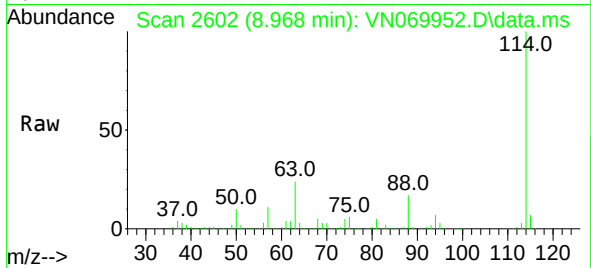




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

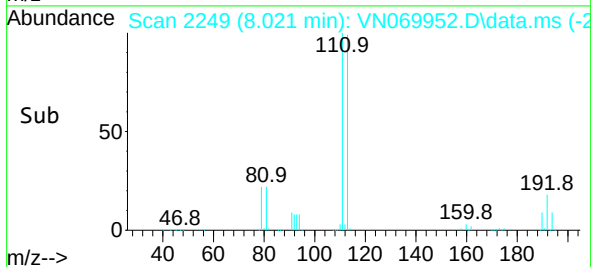
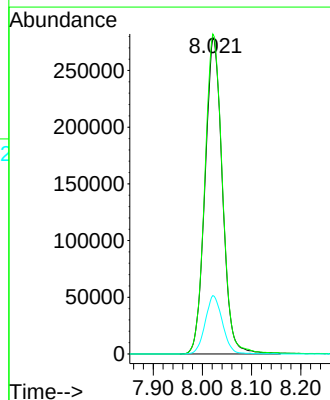
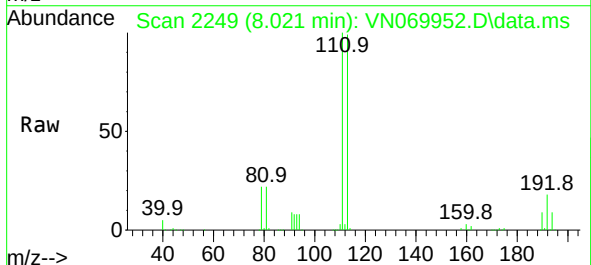
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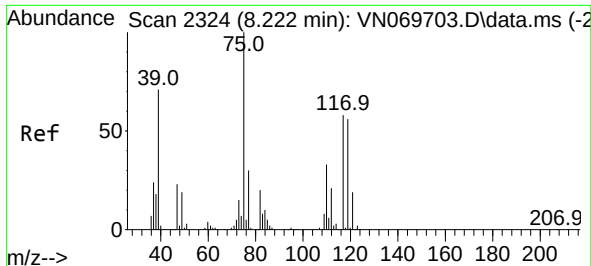
Tgt Ion:114 Resp: 2210177
Ion Ratio Lower Upper
114 100
63 23.5 0.0 37.8
88 16.6 0.0 27.4



#35
Dibromofluoromethane
Concen: 49.378 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. -0.003 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion:113 Resp: 683599
Ion Ratio Lower Upper
113 100
111 102.2 82.2 123.2
192 18.2 16.9 25.3

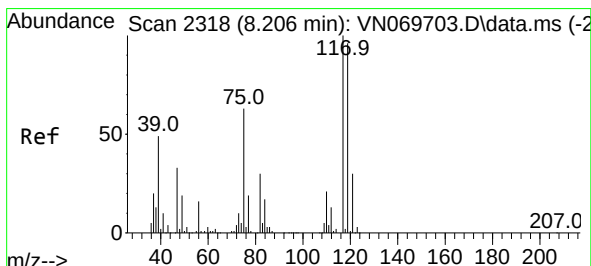
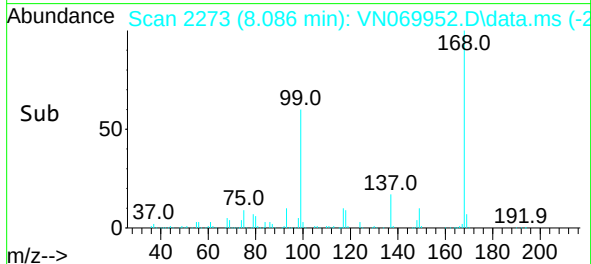
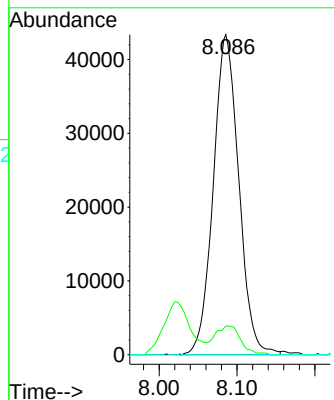
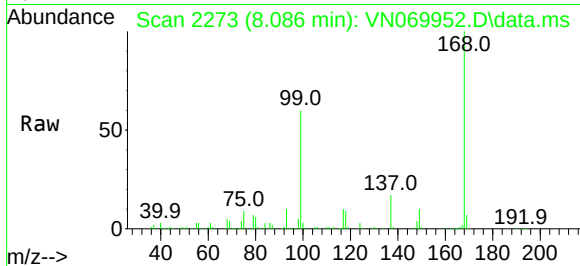




#36
1,1-Dichloropropene
Concen: 4.675 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.137 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

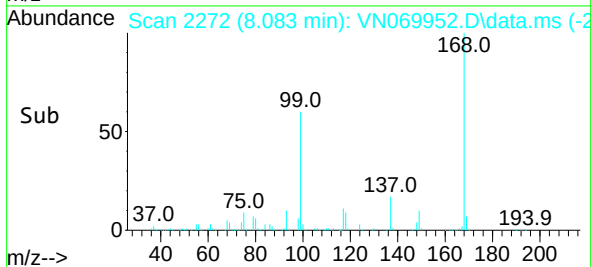
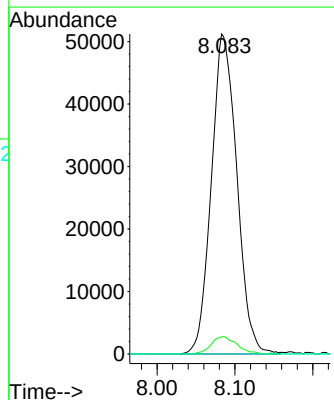
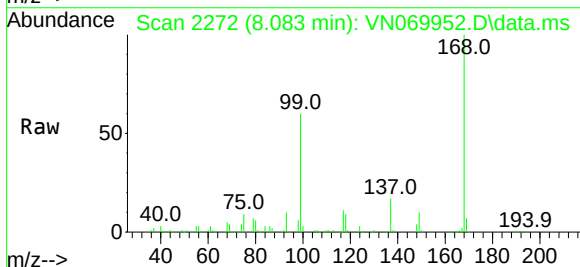
Instrument :
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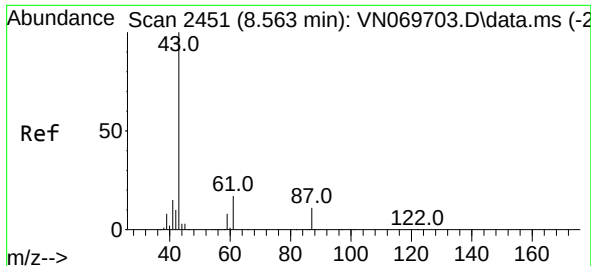
Tgt Ion: 75 Resp: 98363
Ion Ratio Lower Upper
75 100
110 8.4 18.4 55.2#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.632 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.123 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 117 Resp: 116200
Ion Ratio Lower Upper
117 100
119 5.3 76.1 114.1#
121 0.0 24.2 36.2#

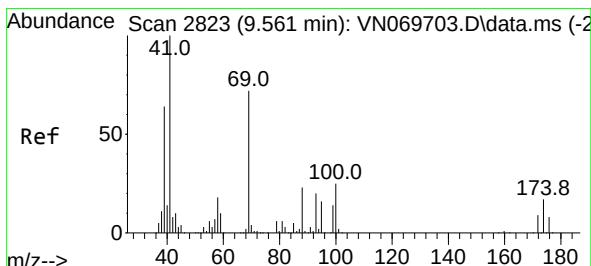
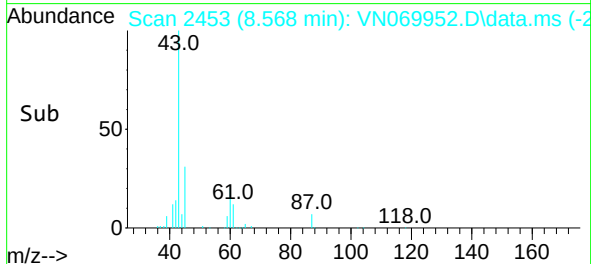
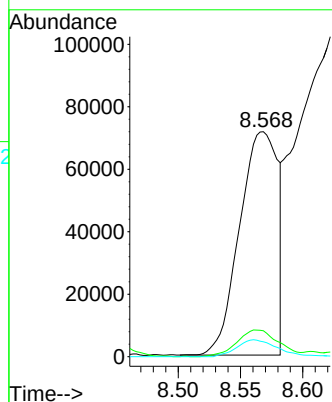
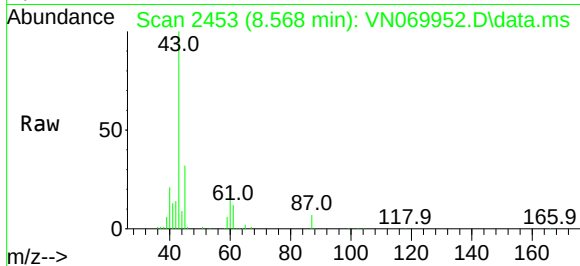




#43
Isopropyl Acetate
Concen: 3.293 ug/l
RT: 8.568 min Scan# 2451
Delta R.T. 0.005 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

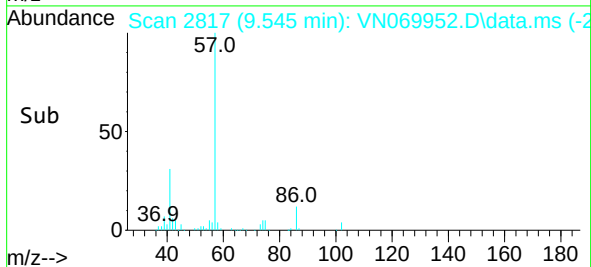
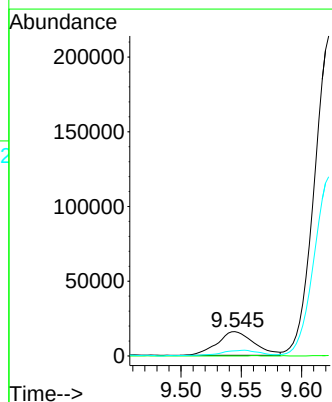
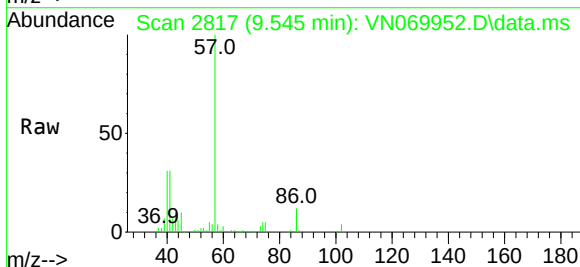
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

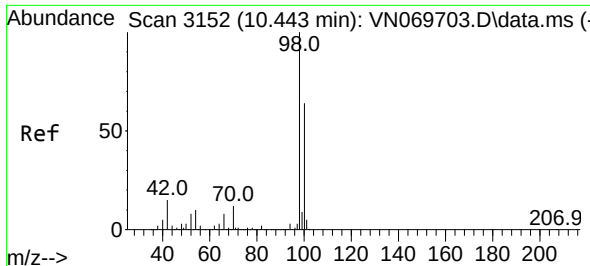
Tgt Ion: 43 Resp: 152584
Ion Ratio Lower Upper
43 100
61 12.9 20.4 30.6#
87 8.1 11.2 16.8#



#48
Methyl methacrylate
Concen: 1.560 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 41 Resp: 33733
Ion Ratio Lower Upper
41 100
69 0.3 72.4 108.6#
39 22.3 58.4 87.6#

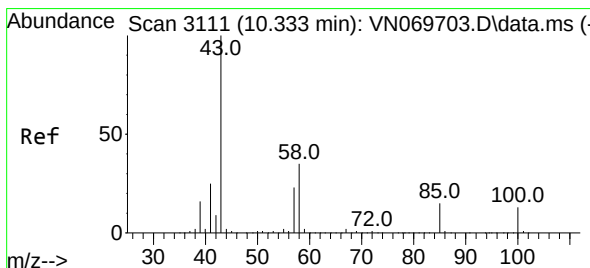
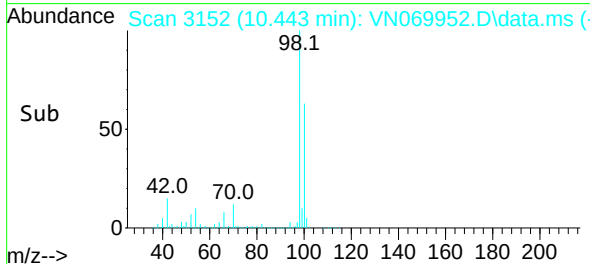
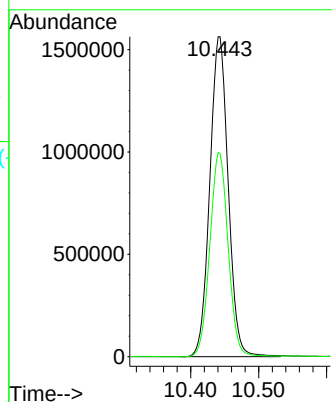
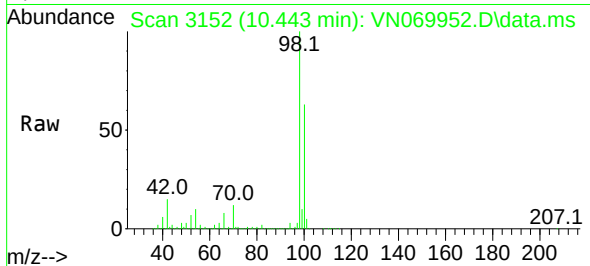




#50
Toluene-d8
Concen: 52.816 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

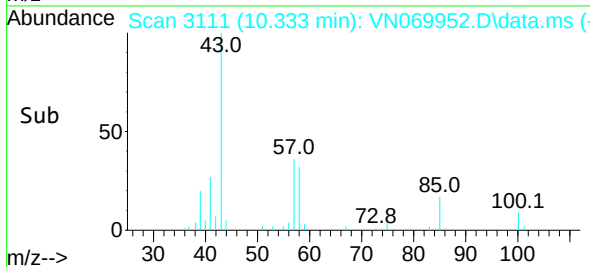
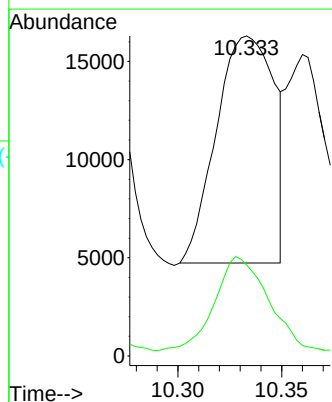
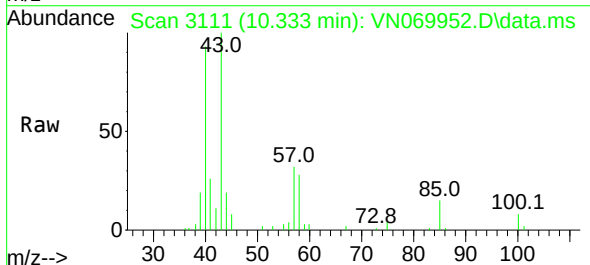
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

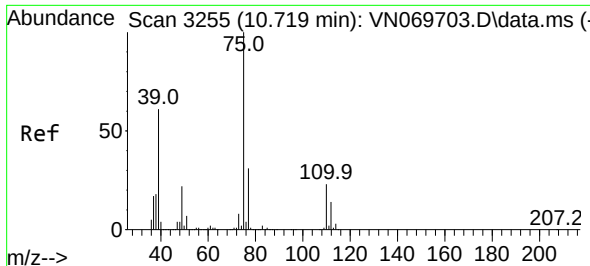
Tgt Ion: 98 Resp: 2935986
Ion Ratio Lower Upper
98 100
100 63.5 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.745 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 43 Resp: 22412
Ion Ratio Lower Upper
43 100
58 39.3 30.4 45.6

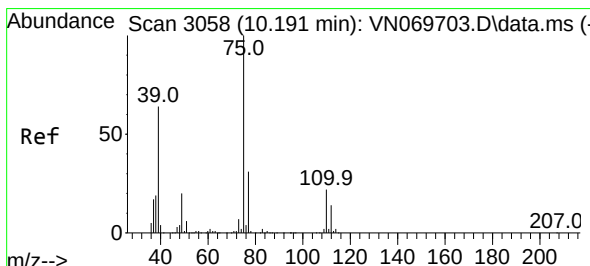
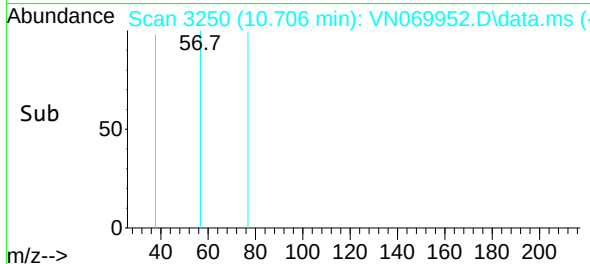
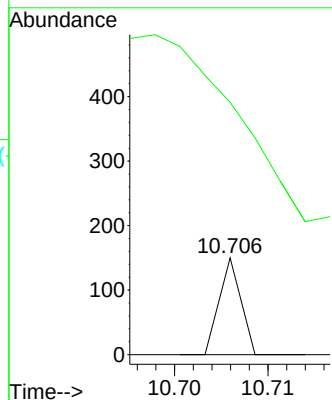
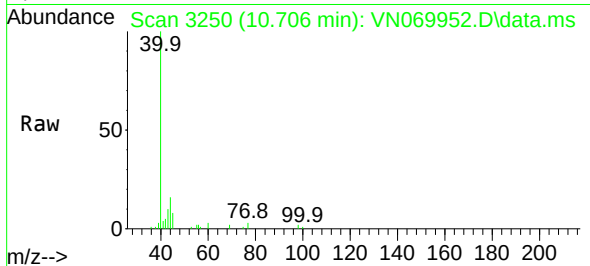




#53
t-1,3-Dichloropropene
Concen: 2.795 ug/l
RT: 10.706 min Scan# 31
Delta R.T. -0.013 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

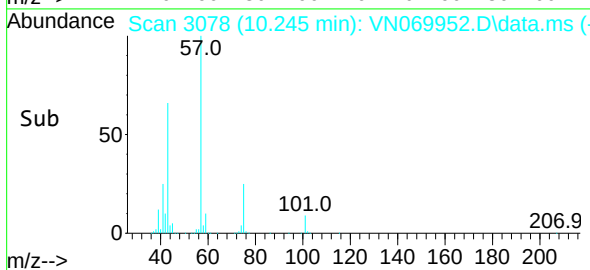
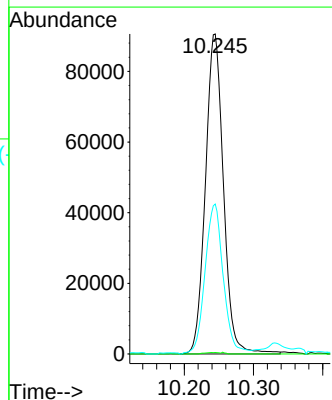
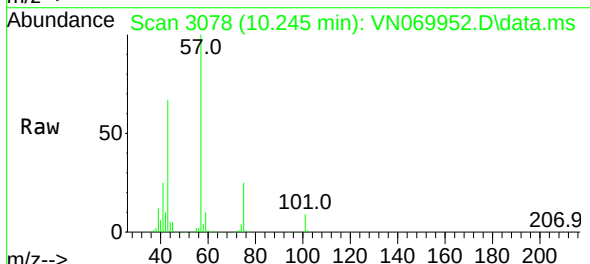
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

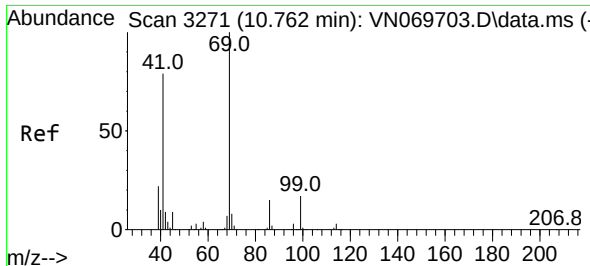
Tgt Ion: 75 Resp: 24
Ion Ratio Lower Upper
75 100
77 81.3 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 7.813 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 75 Resp: 163967
Ion Ratio Lower Upper
75 100
77 0.4 26.4 39.6#
39 46.8 42.5 63.7

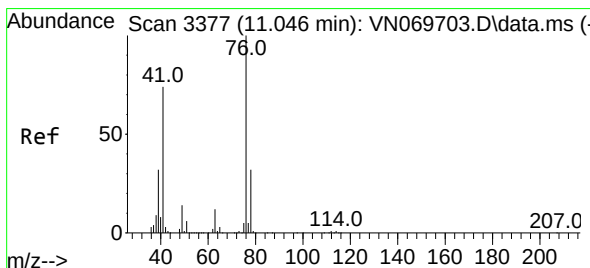
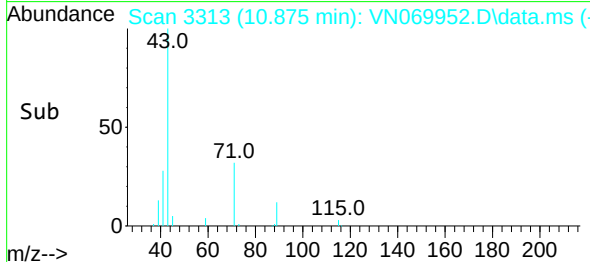
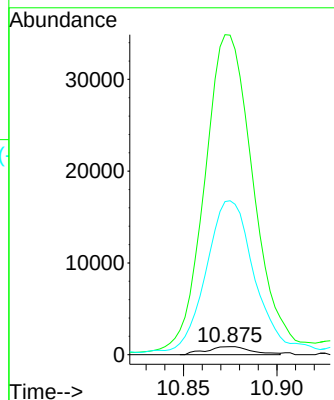
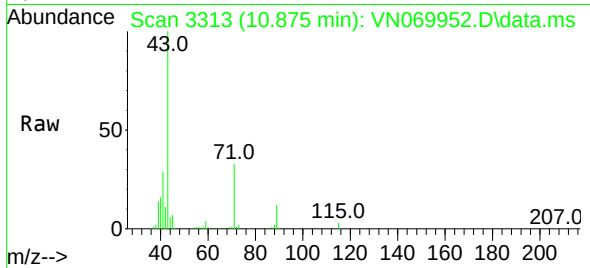




#56
Ethyl methacrylate
Concen: 2.326 ug/l
RT: 10.875 min Scan# 311
Delta R.T. 0.113 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

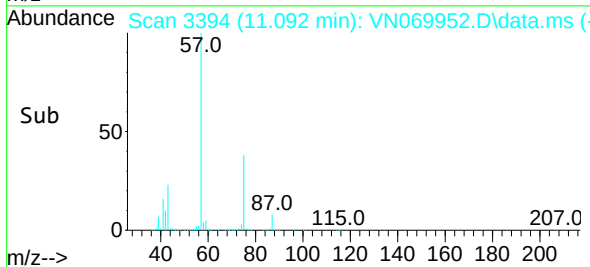
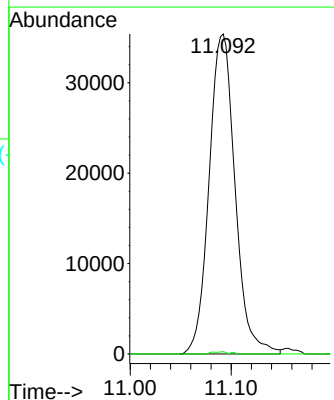
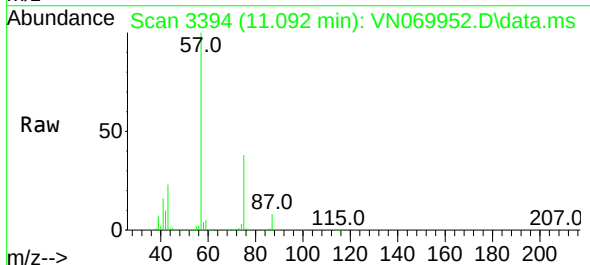
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

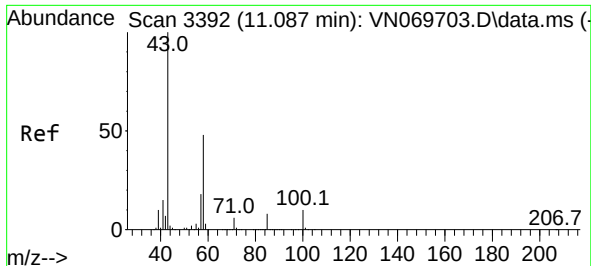
Tgt Ion: 69 Resp: 1460
Ion Ratio Lower Upper
69 100
41 4319.8 51.4 77.0#
39 2054.9 34.6 52.0#



#57
1,3-Dichloropropane
Concen: 2.265 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 76 Resp: 63174
Ion Ratio Lower Upper
76 100
78 0.2 25.7 38.5#

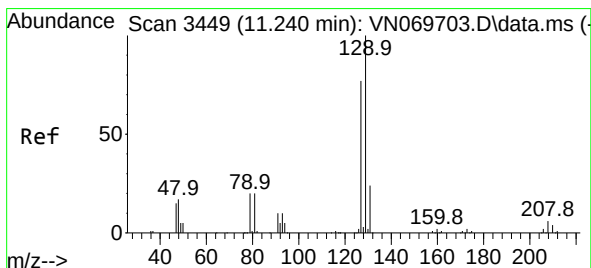
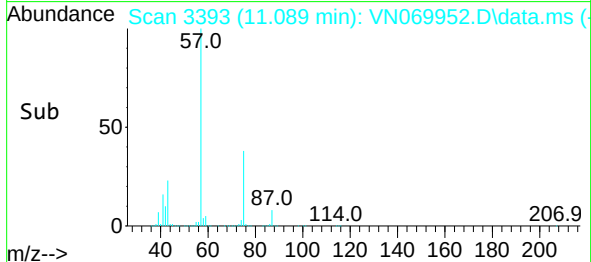
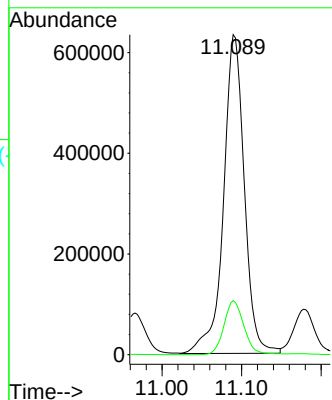
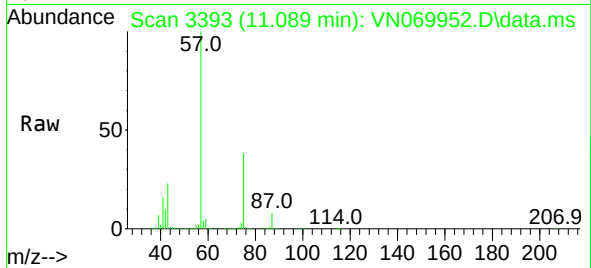




#59
2-Hexanone
Concen: 50.650 ug/l
RT: 11.089 min Scan# 311
Delta R.T. 0.002 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

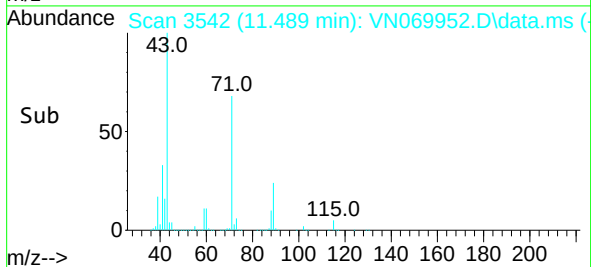
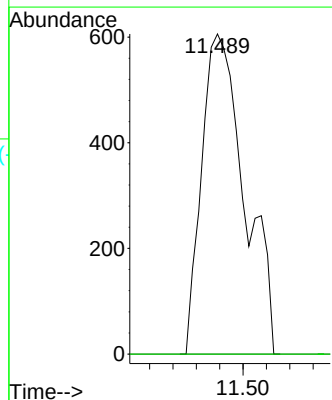
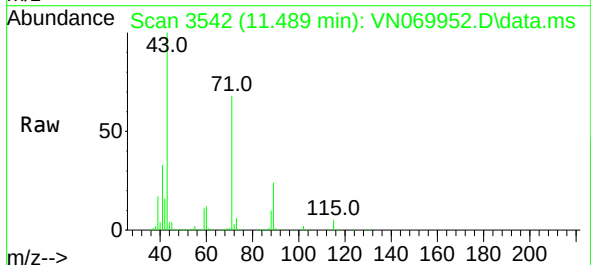
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

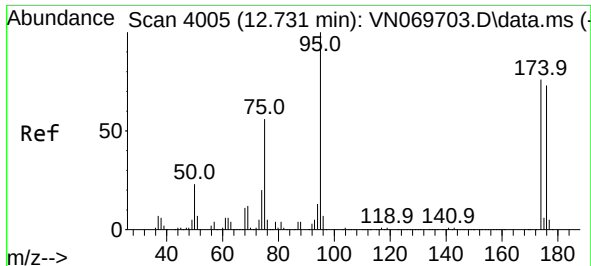
Tgt Ion: 43 Resp: 1151871
Ion Ratio Lower Upper
43 100
58 16.4 26.9 80.7#



#60
Dibromochloromethane
Concen: 2.420 ug/l
RT: 11.489 min Scan# 3542
Delta R.T. 0.249 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion:129 Resp: 772
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 60.627 ug/l

RT: 12.731 min Scan# 4005

Delta R.T. -0.000 min

Lab File: VN069952.D

Acq: 10 Dec 2021 9:17

Instrument :

MSVOA_N

ClientSampleId :

TP-11D

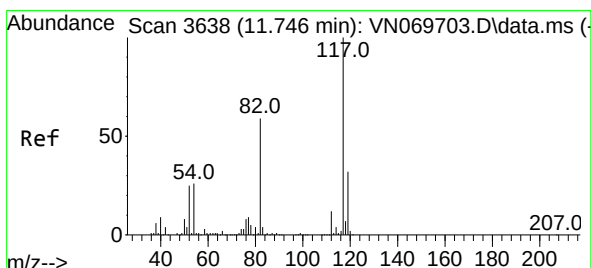
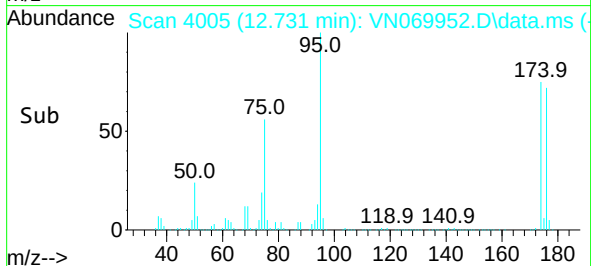
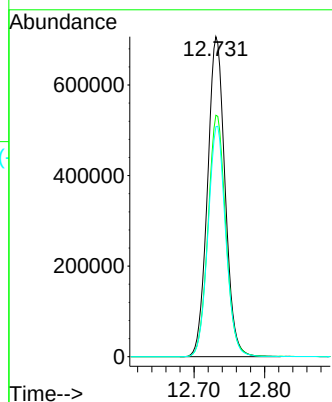
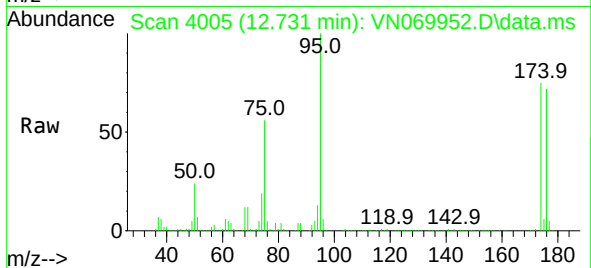
Tgt Ion: 95 Resp: 1220945

Ion Ratio Lower Upper

95 100

174 76.3 0.0 187.2

176 72.6 0.0 181.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.744 min Scan# 3637

Delta R.T. -0.002 min

Lab File: VN069952.D

Acq: 10 Dec 2021 9:17

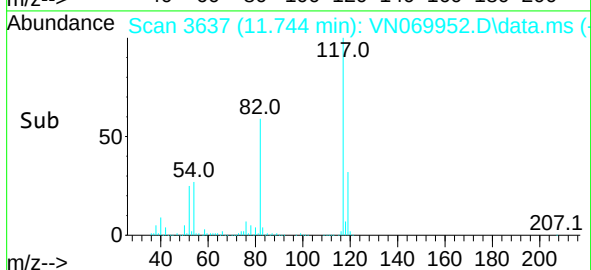
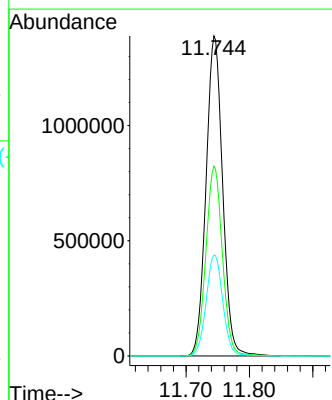
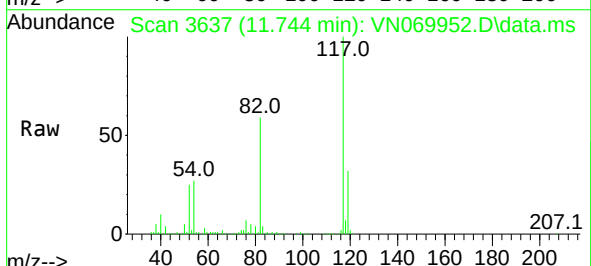
Tgt Ion: 117 Resp: 2523648

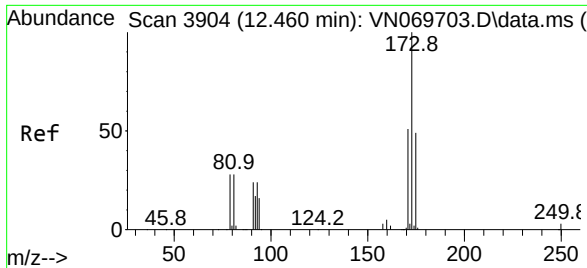
Ion Ratio Lower Upper

117 100

82 59.3 42.4 63.6

119 31.5 25.4 38.2

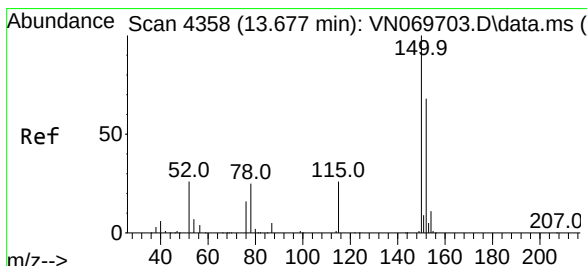
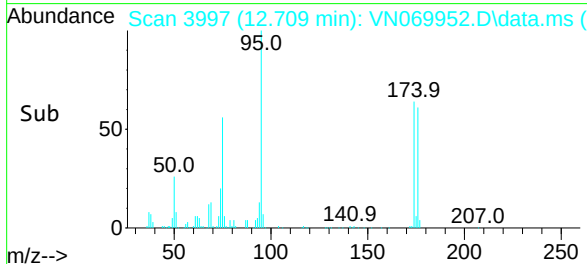
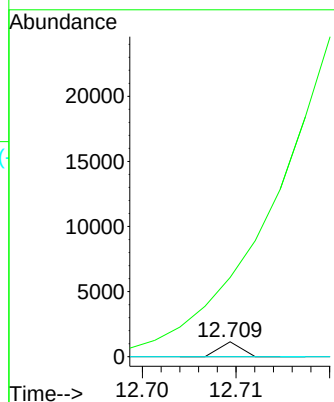
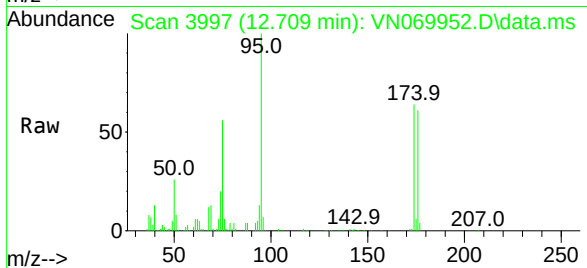




#71
Bromoform
Concen: 2.742 ug/l
RT: 12.709 min Scan# 3904
Delta R.T. 0.249 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

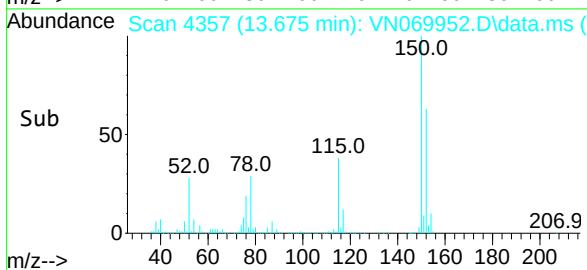
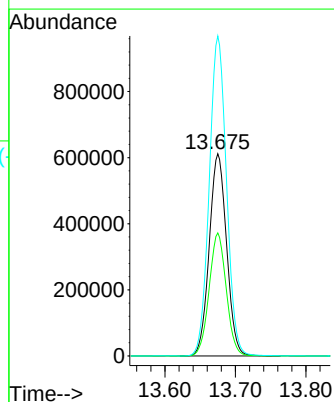
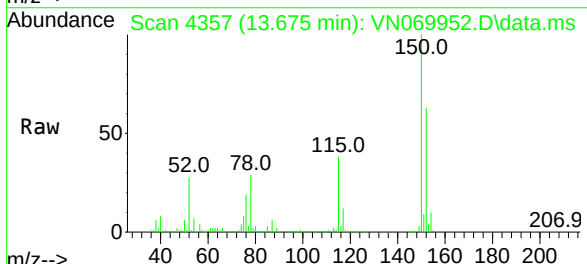
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

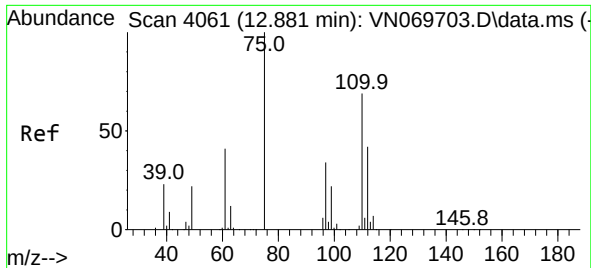
Tgt Ion:173 Resp: 183
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion:152 Resp: 1046846
Ion Ratio Lower Upper
152 100
115 60.0 27.5 82.5
150 156.9 0.0 344.4

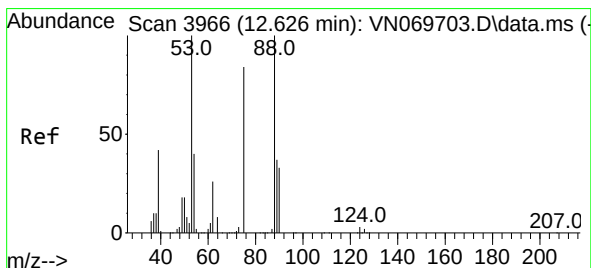
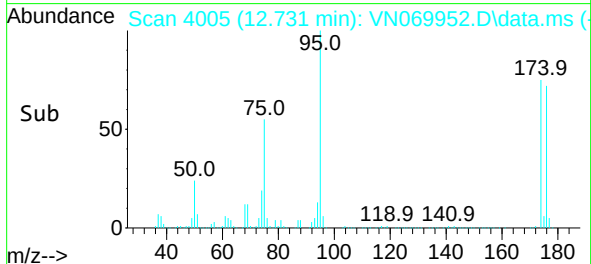
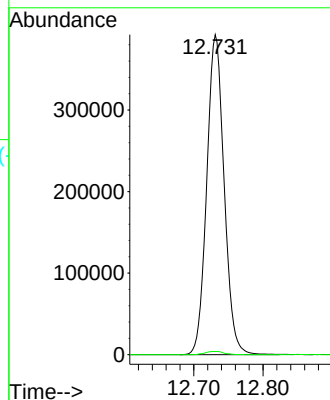
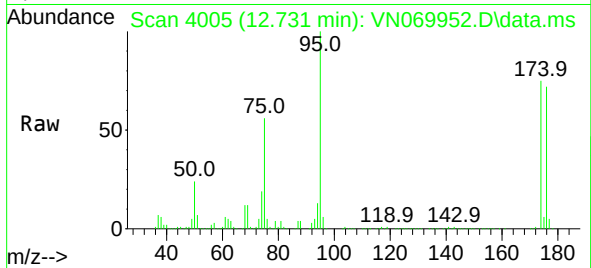




#76
1,2,3-Trichloropropane
Concen: 22.775 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

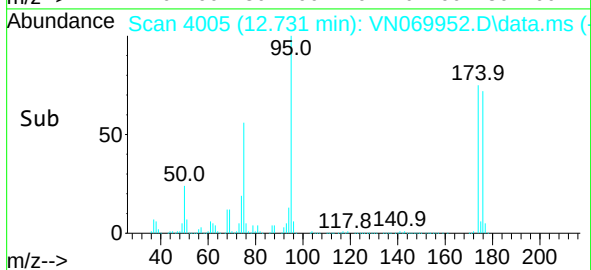
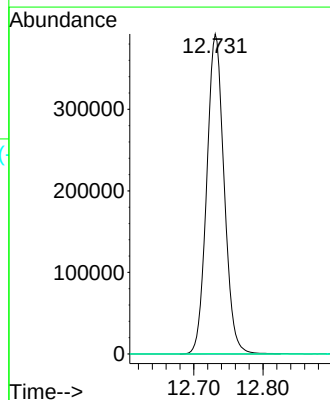
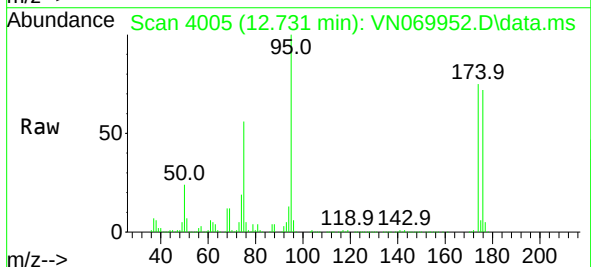
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

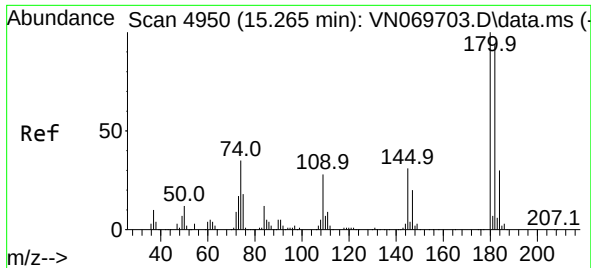
Tgt Ion: 75 Resp: 683746
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.548 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

Tgt Ion: 75 Resp: 683746
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

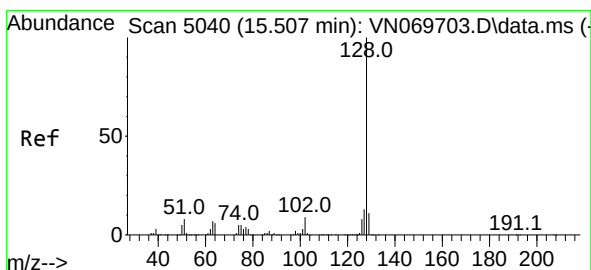
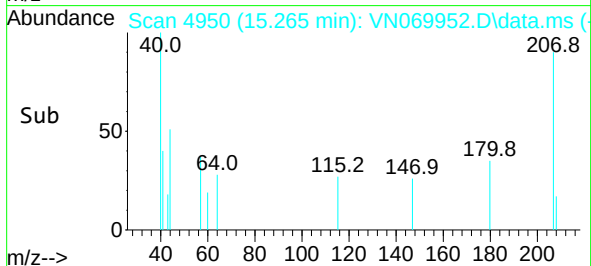
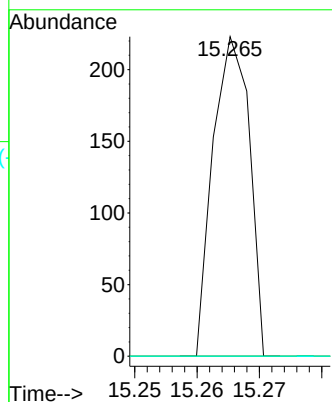
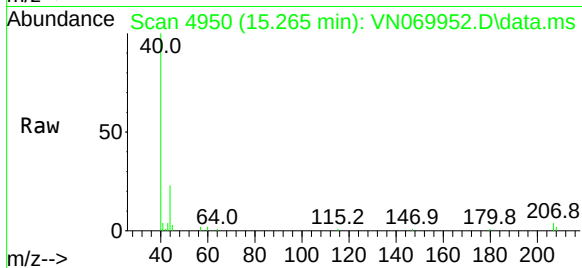




#93
1,2,4-Trichlorobenzene
Concen: 2.883 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

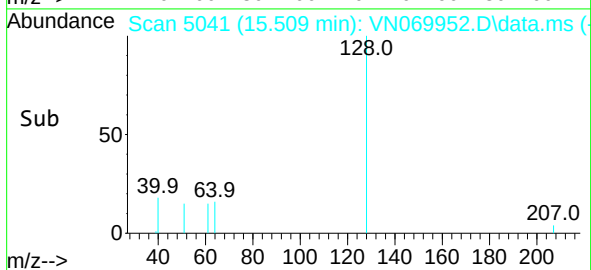
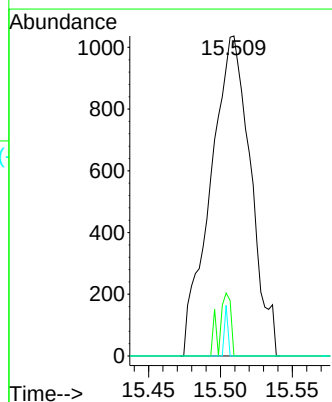
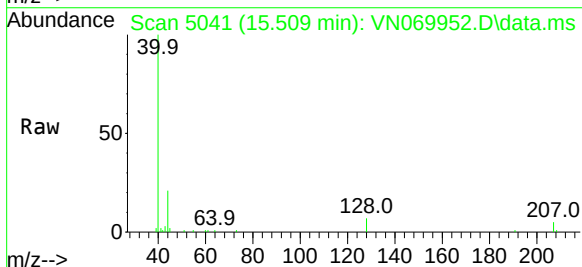
Instrument :
MSVOA_N
ClientSampleId :
TP-11D

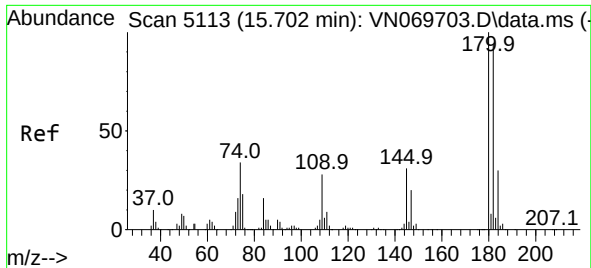
Tgt Ion:180 Resp: 90
Ion Ratio Lower Upper
180 100
182 0.0 48.3 144.9#
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 4.021 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN069952.D
Acq: 10 Dec 2021 9:17

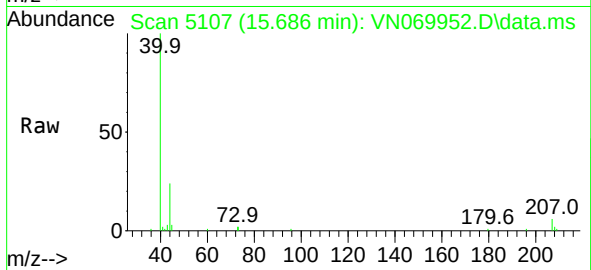
Tgt Ion:128 Resp: 2002
Ion Ratio Lower Upper
128 100
127 5.6 10.5 15.7#
129 1.3 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.437 ug/l
 RT: 15.686 min Scan# 51
 Delta R.T. -0.016 min
 Lab File: VN069952.D
 Acq: 10 Dec 2021 9:17

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11D



Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.2#
145	0.0	15.0	45.1#

