

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060722\
 Data File : VN072686.D
 Acq On : 07 Jun 2022 14:30
 Operator : JC\MD
 Sample : N3172-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: Jun 08 09:51:57 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 06 14:10:15 2022
 Response via : Initial Calibration

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

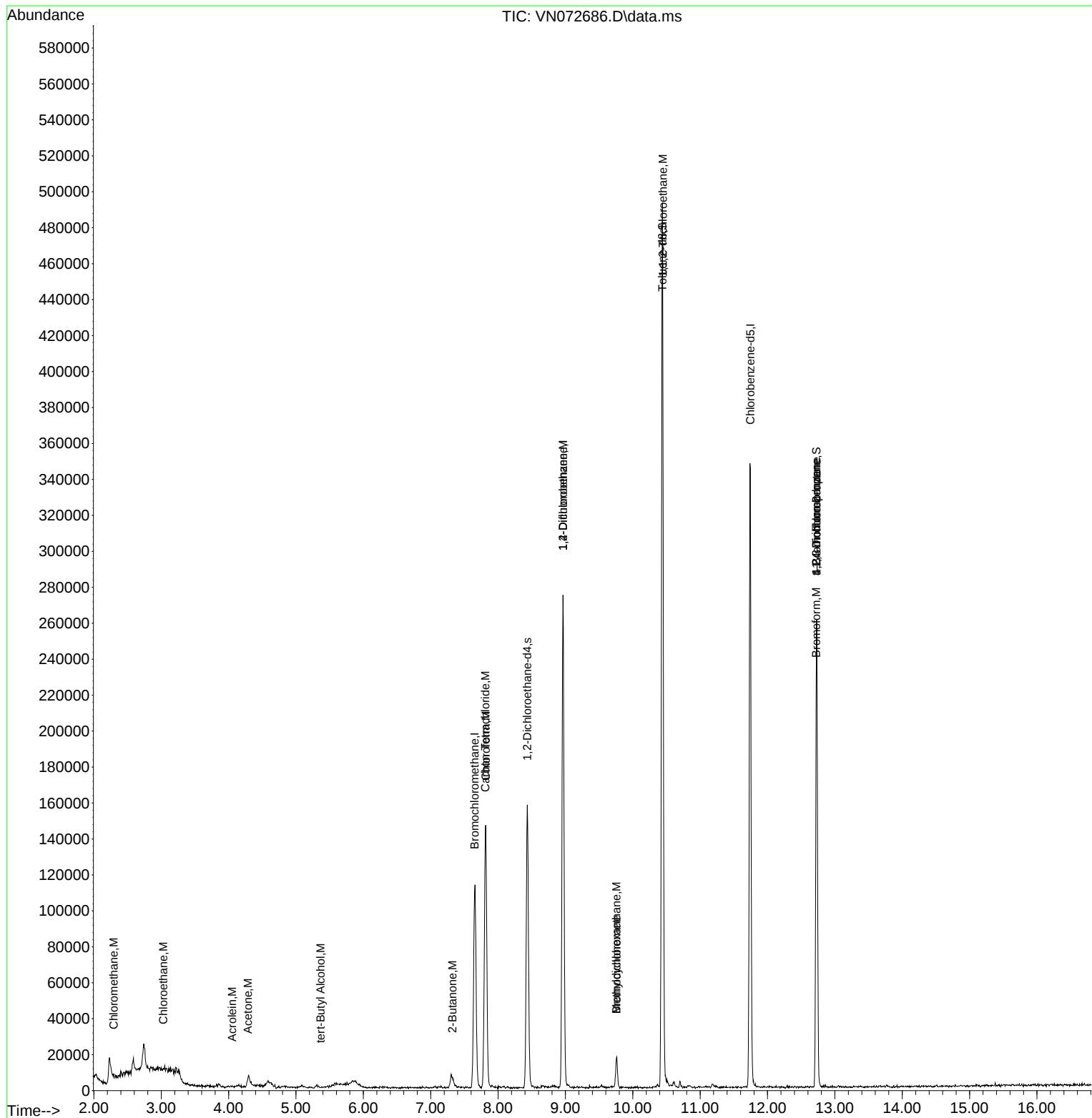
Internal Standards						
1) Bromochloromethane	7.651	128	38095	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	223239	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.745	117	189145	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	131349	30.232	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.767%	
60) 4-Bromofluorobenzene	12.727	95	93742	24.096	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 80.333%	
63) Toluene-d8	10.439	98	326874	31.197	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	1057	0.341	ug/l #	81
6) Chloroethane	3.028	64	568	0.304	ug/l #	1
13) Acrolein	4.051	56	276	0.607	ug/l #	37
15) Acetone	4.287	58	1402	2.446	ug/l	72
23) tert-Butyl Alcohol	5.363	59	203	0.206	ug/l #	100
25) Chloroform	7.816	83	138481	22.533	ug/l	100
30) 2-Butanone	7.322	43	821	0.267	ug/l #	85
33) Carbon Tetrachloride	7.810	117	1370	0.285	ug/l #	69
36) 1,2-Dichloroethane	8.963	62	9534	1.792	ug/l #	77
38) Methylcyclohexane	9.757	83	11484	2.261	ug/l #	21
41) Bromodichloromethane	9.757	83	11484	2.261	ug/l #	95
50) 1,1,2-Trichloroethane	10.445	97	10192	3.036	ug/l #	1
56) Bromoform	12.721	173	523	0.203	ug/l #	1
72) 1,2,3-Trichloropropane	12.727	75	54240	12.825	ug/l	1
77) t-1,4-Dichloro-2-butene	12.727	75	54240	30.428	ug/l #	8

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

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Quant Time: Jun 08 09:51:57 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jun 06 14:10:15 2022
Response via : Initial Calibration

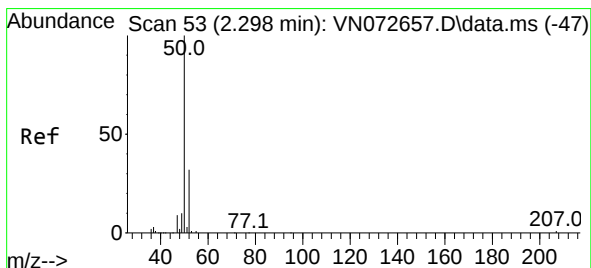
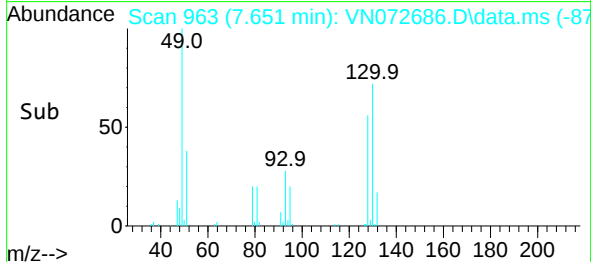
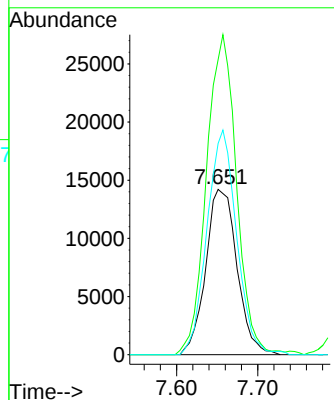
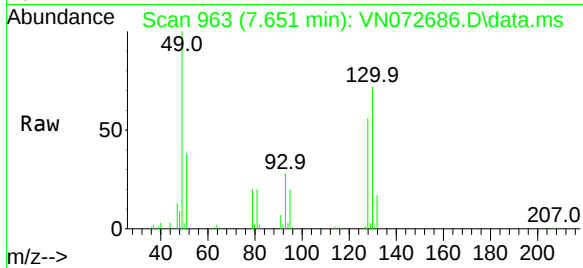




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

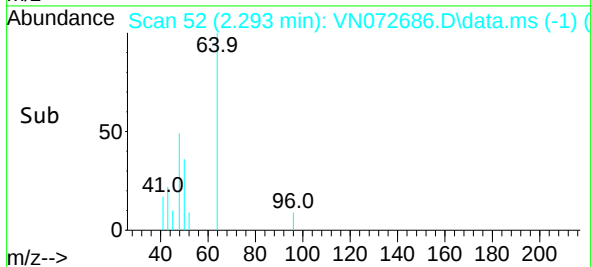
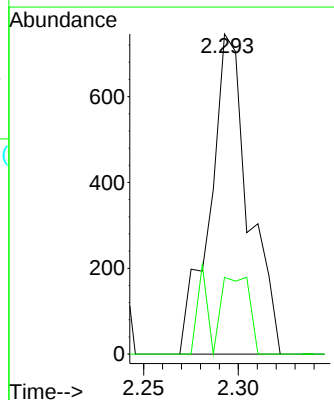
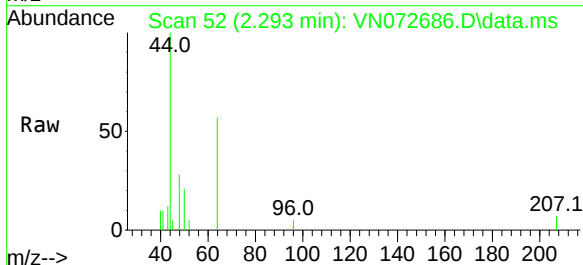
Instrument :
MSVOA_N
ClientSampleId :
14B-4

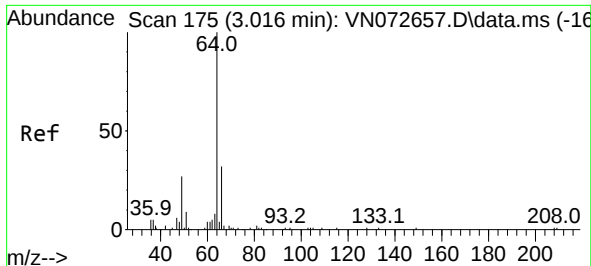
Tgt Ion:128 Resp: 38095
Ion Ratio Lower Upper
128 100
49 184.6 0.0 392.3
130 128.5 0.0 320.2



#3
Chloromethane
Concen: 0.341 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

Tgt Ion: 50 Resp: 1057
Ion Ratio Lower Upper
50 100
52 24.0 27.8 41.6#

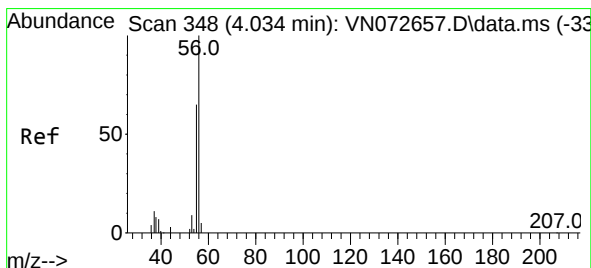
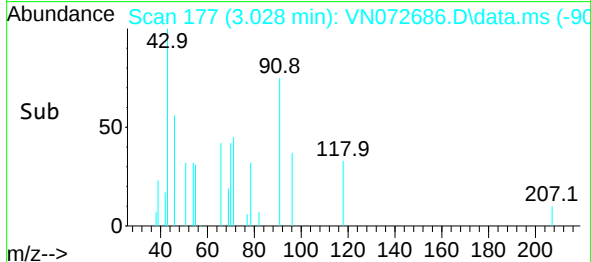
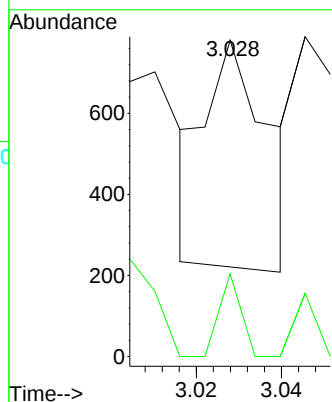
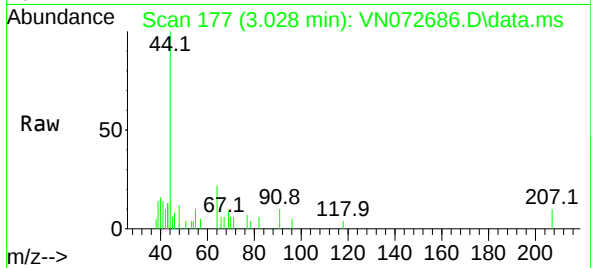




#6
Chloroethane
Concen: 0.304 ug/l
RT: 3.028 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

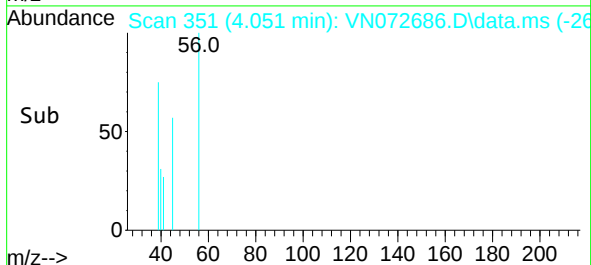
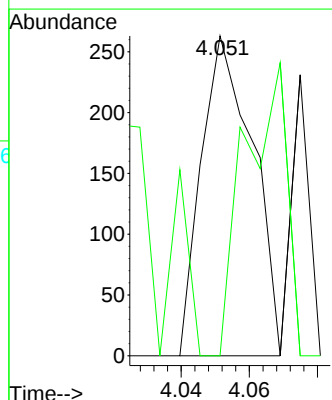
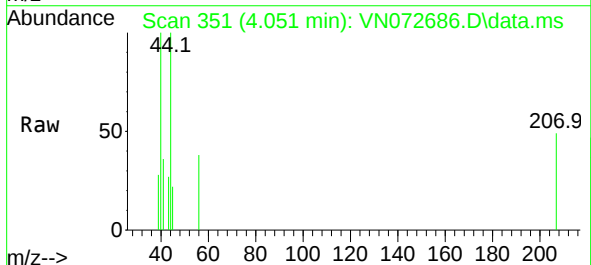
Instrument :
MSVOA_N
ClientSampleId :
14B-4

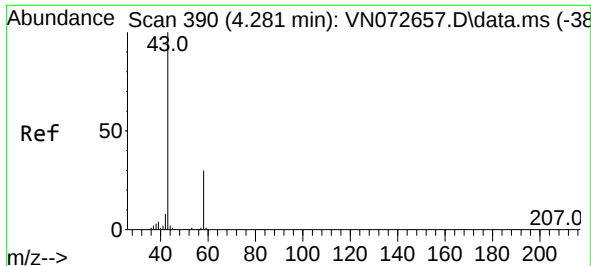
Tgt Ion: 64 Resp: 568
Ion Ratio Lower Upper
64 100
66 92.7 24.6 36.8#



#13
Acrolein
Concen: 0.607 ug/l
RT: 4.051 min Scan# 351
Delta R.T. 0.018 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

Tgt Ion: 56 Resp: 276
Ion Ratio Lower Upper
56 100
55 19.6 57.6 86.4#





#15

Acetone

Concen: 2.446 ug/l

RT: 4.287 min Scan# 390

Delta R.T. 0.006 min

Lab File: VN072686.D

Acq: 07 Jun 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

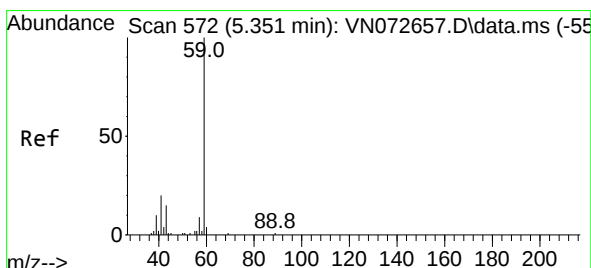
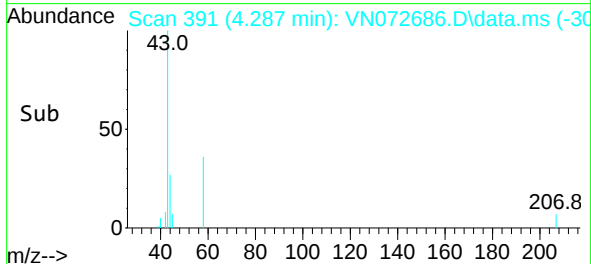
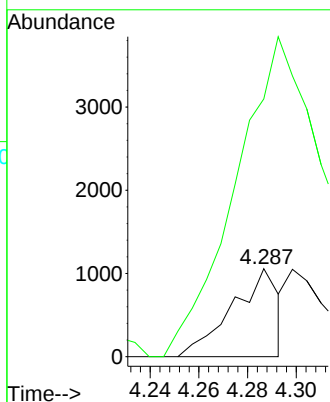
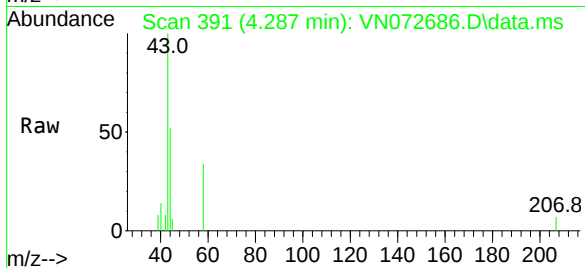
14B-4

Tgt Ion: 58 Resp: 1402

Ion Ratio Lower Upper

58 100

43 263.8 256.6 384.8



#23

tert-Butyl Alcohol

Concen: 0.206 ug/l

RT: 5.363 min Scan# 574

Delta R.T. 0.012 min

Lab File: VN072686.D

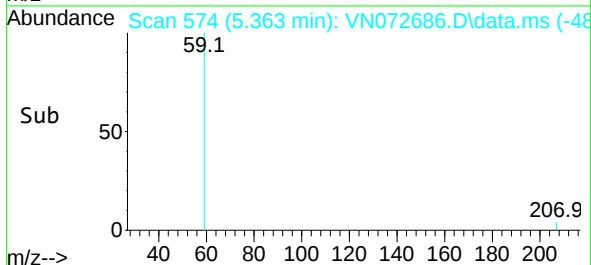
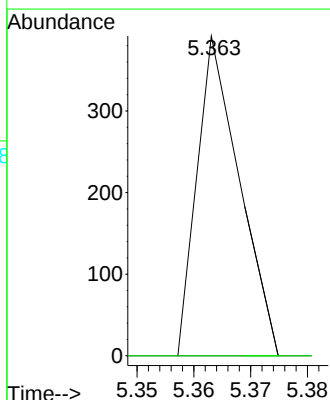
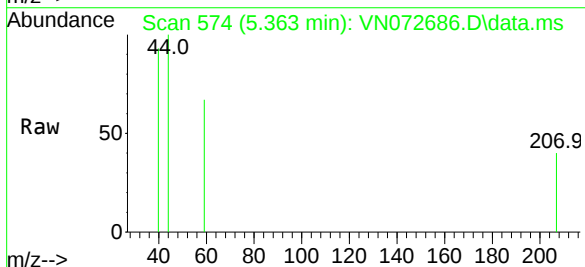
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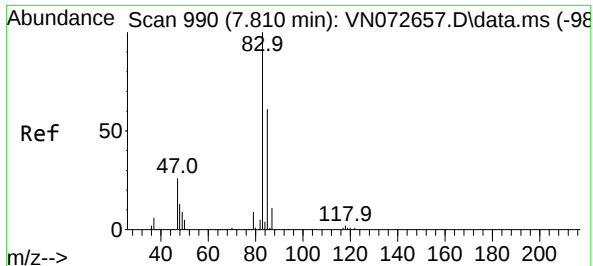
Tgt Ion: 59 Resp: 203

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

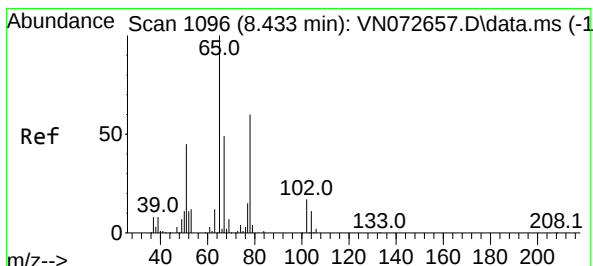
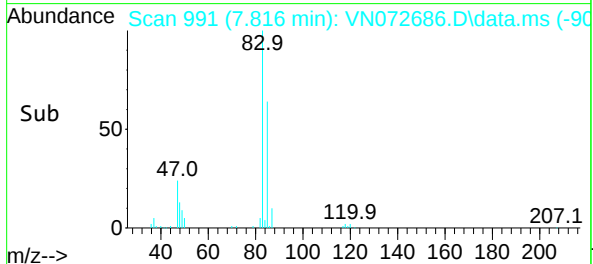
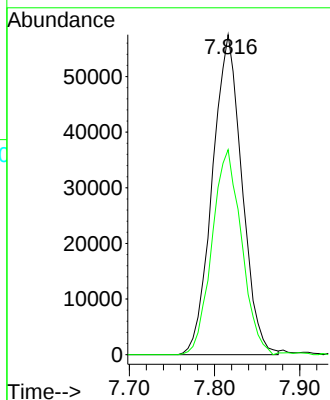
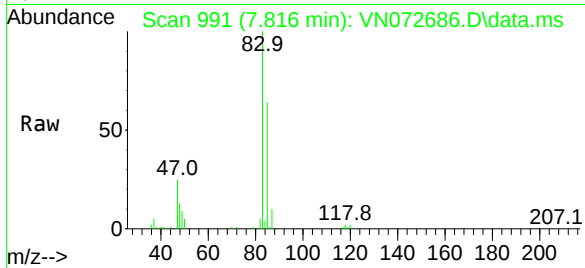




#25
Chloroform
Concen: 22.533 ug/l
RT: 7.816 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

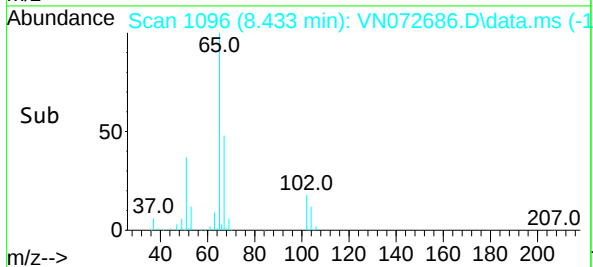
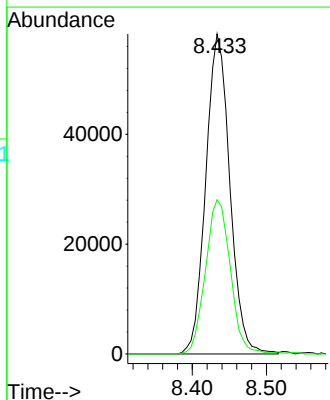
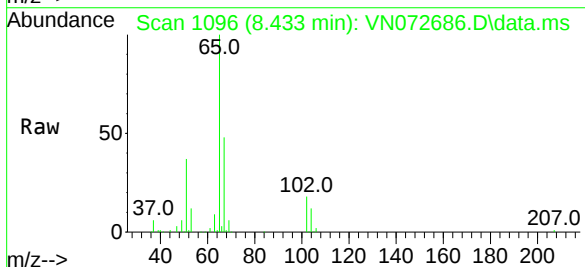
Instrument :
MSVOA_N
ClientSampleId :
14B-4

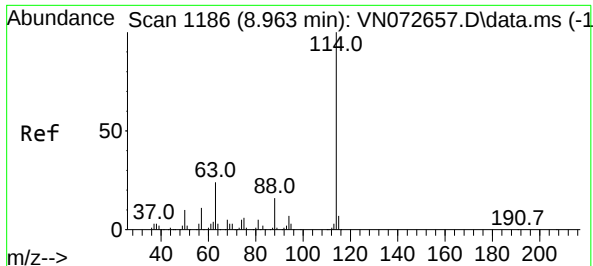
Tgt Ion: 83 Resp: 138481
Ion Ratio Lower Upper
83 100
85 64.1 51.3 76.9



#27
1,2-Dichloroethane-d4
Concen: 30.232 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

Tgt Ion: 65 Resp: 131349
Ion Ratio Lower Upper
65 100
67 49.6 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: VN072686.D

Acq: 07 Jun 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

14B-4

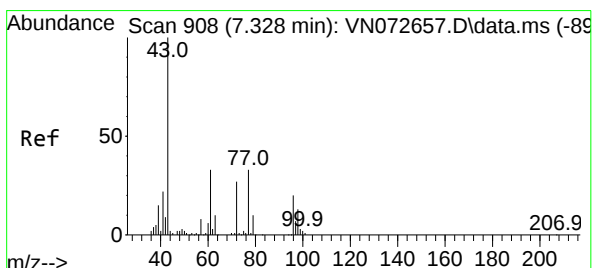
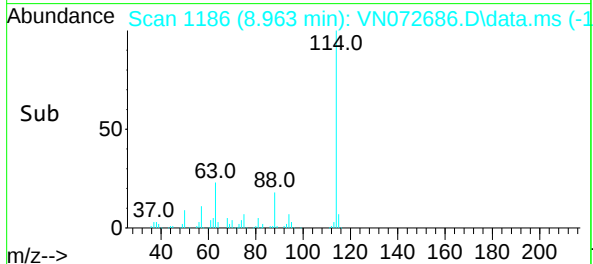
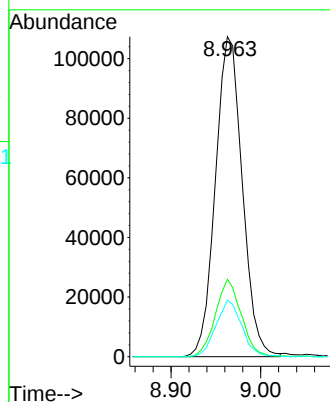
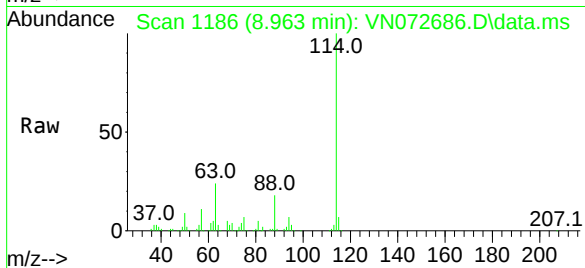
Tgt Ion:114 Resp: 223239

Ion Ratio Lower Upper

114 100

63 23.2 15.8 23.6

88 16.9 11.6 17.4



#30

2-Butanone

Concen: 0.267 ug/l

RT: 7.322 min Scan# 907

Delta R.T. -0.006 min

Lab File: VN072686.D

Acq: 07 Jun 2022 14:30

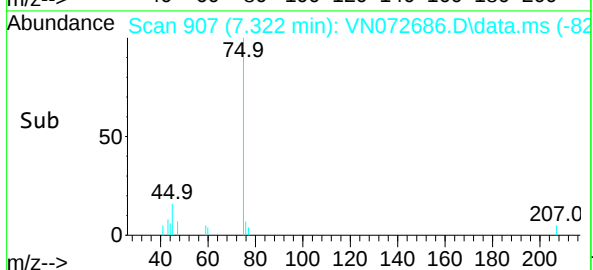
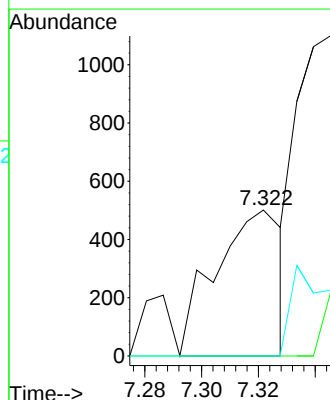
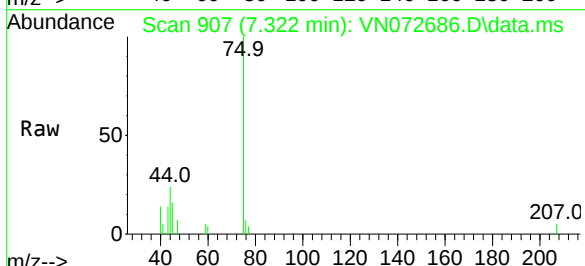
Tgt Ion: 43 Resp: 821

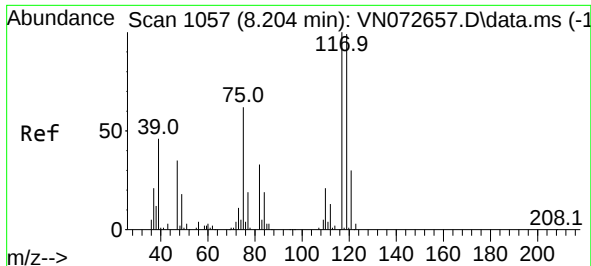
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 22.7 23.2 34.8#

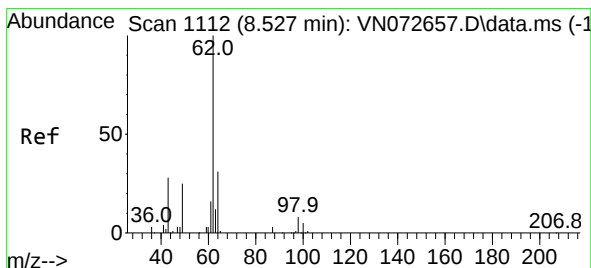
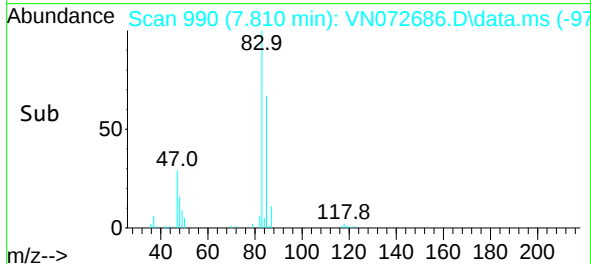
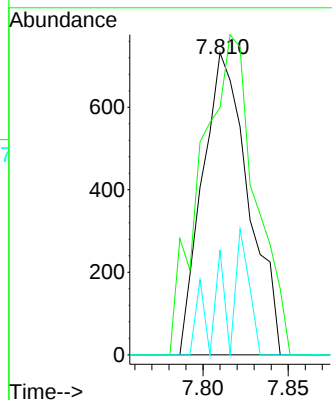
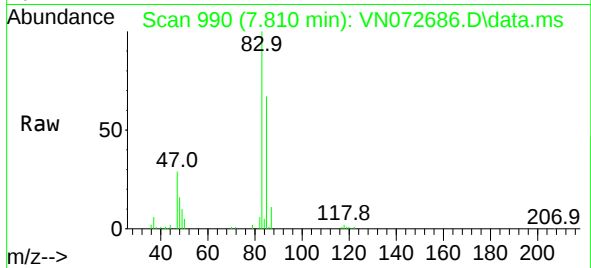




#33
Carbon Tetrachloride
Concen: 0.285 ug/l
RT: 7.810 min Scan# 91
Delta R.T. -0.394 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

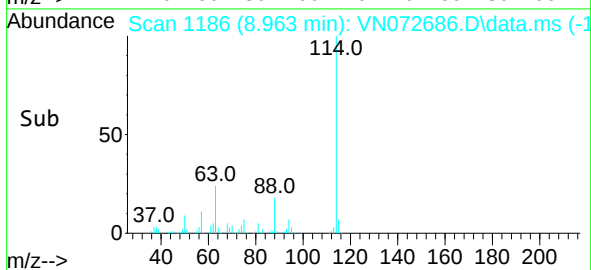
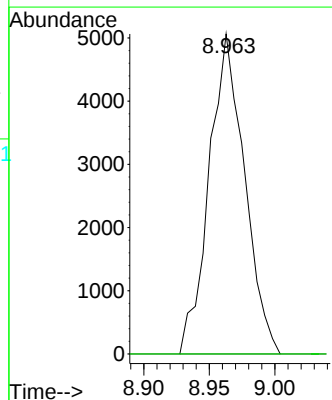
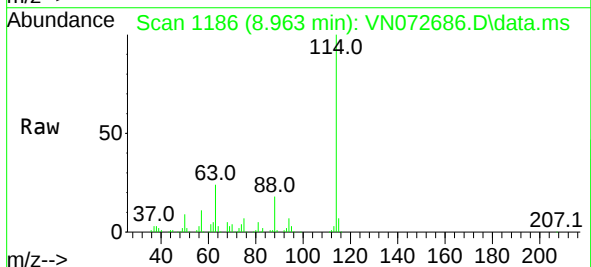
Instrument :
MSVOA_N
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14B-4

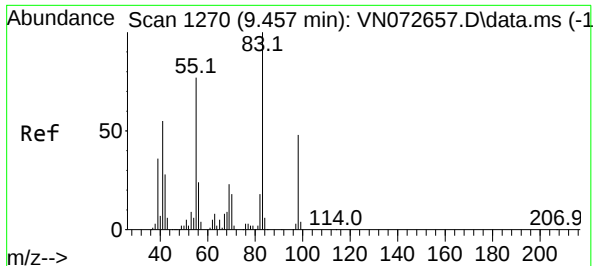
Tgt Ion:117 Resp: 1370
Ion Ratio Lower Upper
117 100
119 60.0 77.5 116.3#
121 34.7 23.5 35.3



#36
1,2-Dichloroethane
Concen: 1.792 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.435 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

Tgt Ion: 62 Resp: 9534
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0#

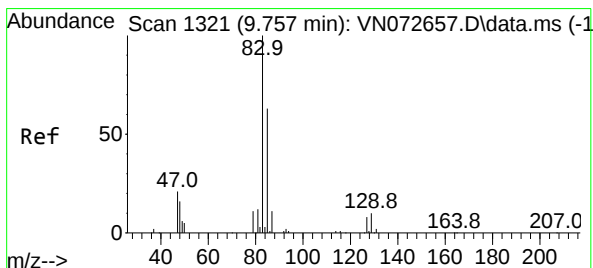
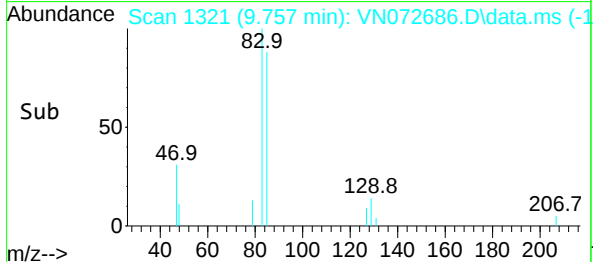
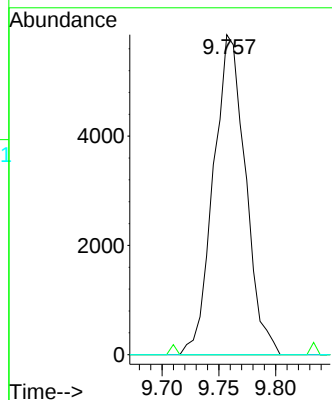
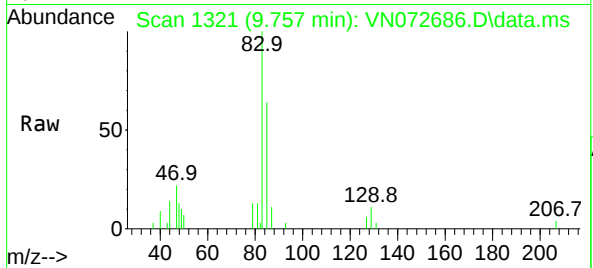




#38
Methylcyclohexane
Concen: 2.261 ug/l
RT: 9.757 min Scan# 11
Delta R.T. 0.300 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

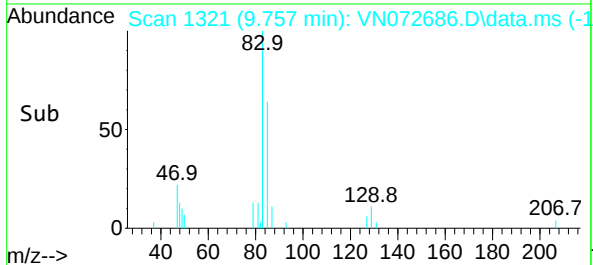
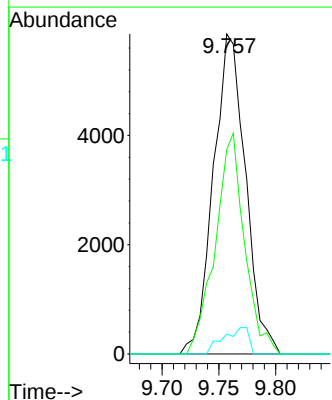
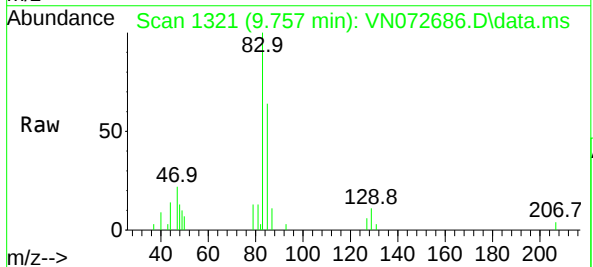
Instrument :
MSVOA_N
ClientSampleId :
14B-4

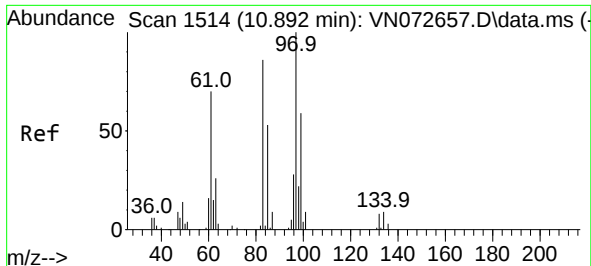
Tgt Ion: 83 Resp: 11484
Ion Ratio Lower Upper
83 100
55 0.0 35.1 105.3#
98 0.0 23.4 70.2#



#41
Bromodichloromethane
Concen: 2.261 ug/l
RT: 9.757 min Scan# 1321
Delta R.T. 0.000 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

Tgt Ion: 83 Resp: 11484
Ion Ratio Lower Upper
83 100
85 63.9 54.1 81.1
127 6.2 7.6 11.4#

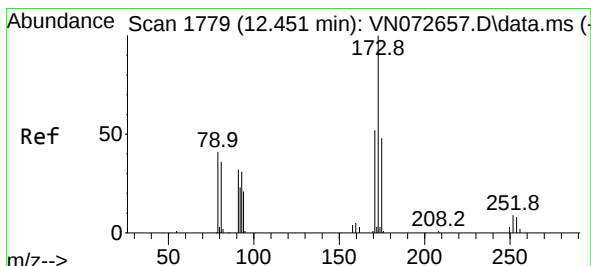
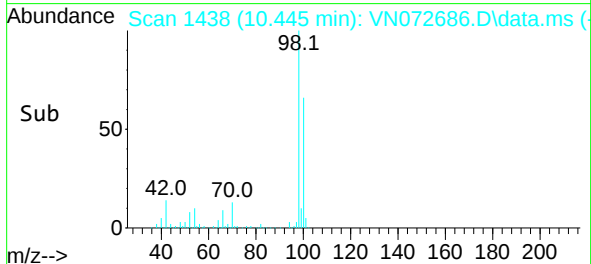
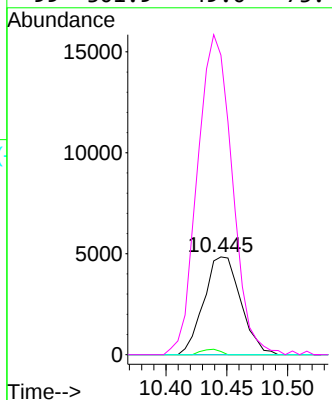
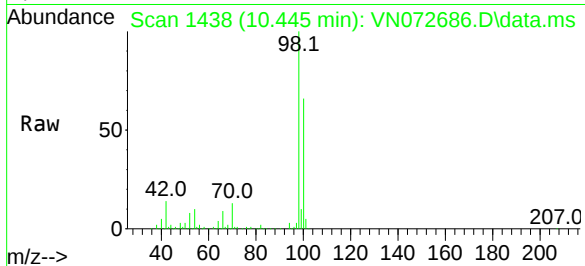




#50
1,1,2-Trichloroethane
Concen: 3.036 ug/l
RT: 10.445 min Scan# 14
Delta R.T. -0.447 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

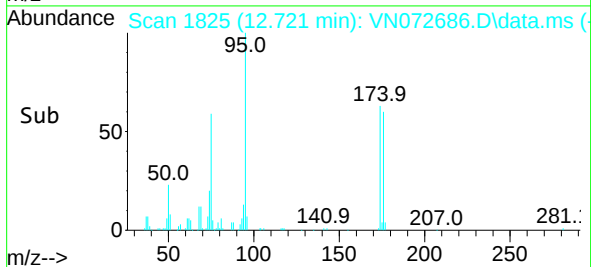
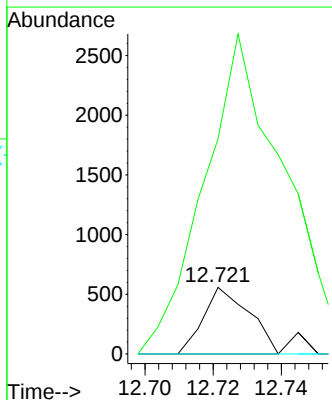
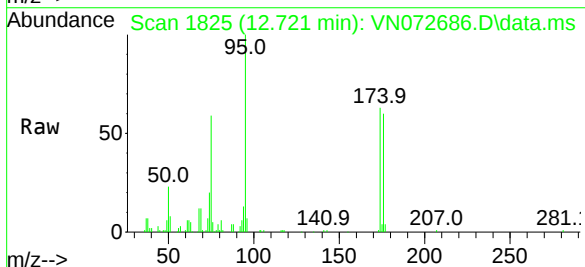
Instrument :
MSVOA_N
ClientSampleId :
14B-4

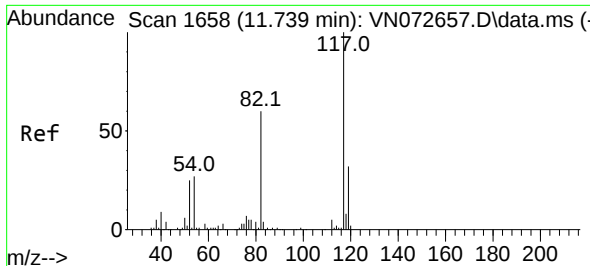
Tgt Ion: 97 Resp: 10192
Ion Ratio Lower Upper
97 100
83 3.2 67.2 100.8#
85 0.0 43.0 64.4#
99 301.9 49.0 73.4#



#56
Bromoform
Concen: 0.203 ug/l
RT: 12.721 min Scan# 1825
Delta R.T. 0.271 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

Tgt Ion:173 Resp: 523
Ion Ratio Lower Upper
173 100
175 833.5 38.6 58.0#
254 0.0 0.0 0.0

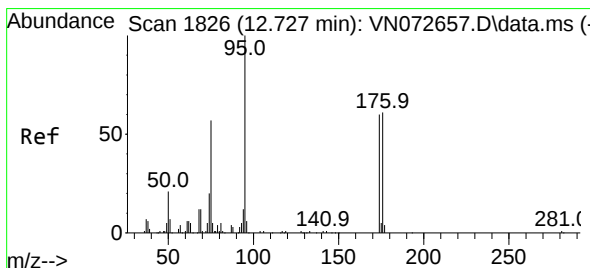
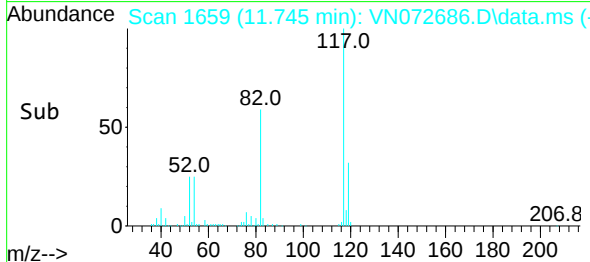
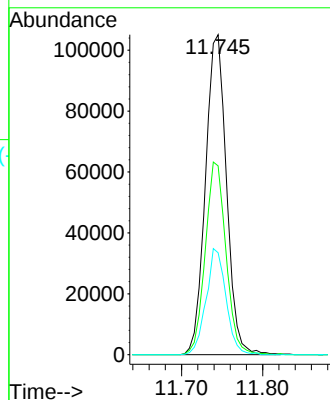
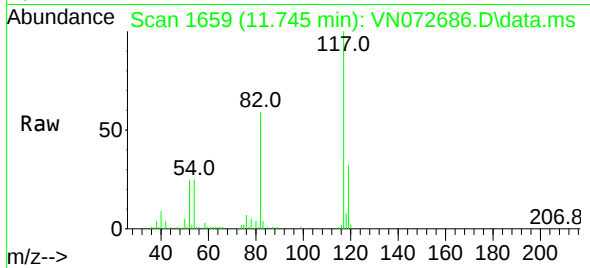




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.745 min Scan# 1170
Delta R.T. 0.006 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

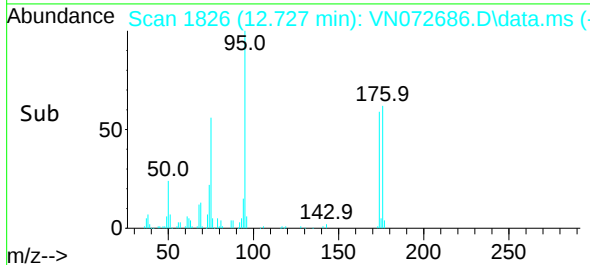
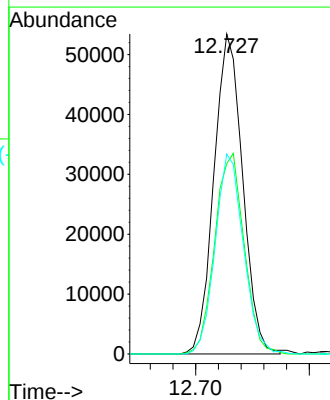
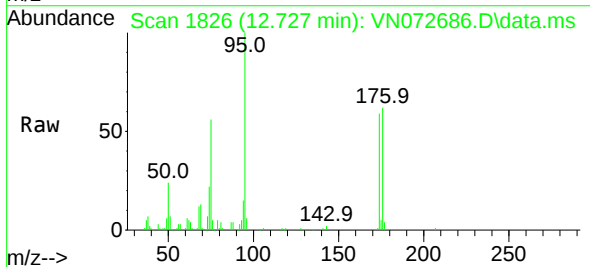
Instrument :
MSVOA_N
ClientSampleId :
14B-4

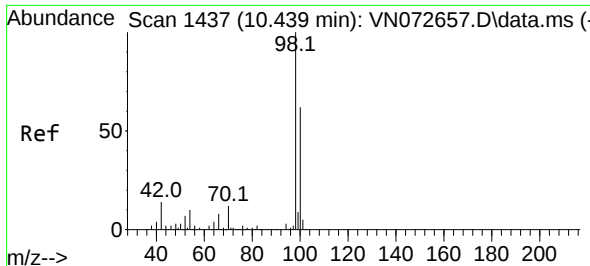
Tgt Ion:117 Resp: 189145
Ion Ratio Lower Upper
117 100
82 59.3 43.6 65.4
119 31.3 25.8 38.6



#60
4-Bromofluorobenzene
Concen: 24.096 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

Tgt Ion: 95 Resp: 93742
Ion Ratio Lower Upper
95 100
174 64.2 62.9 94.3
176 61.5 61.0 91.4

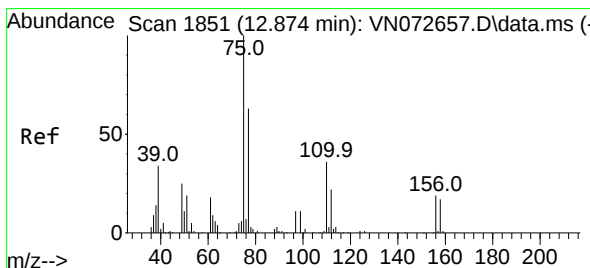
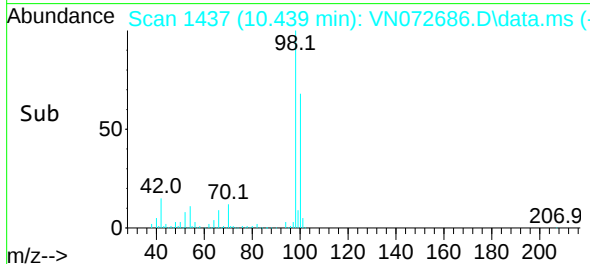
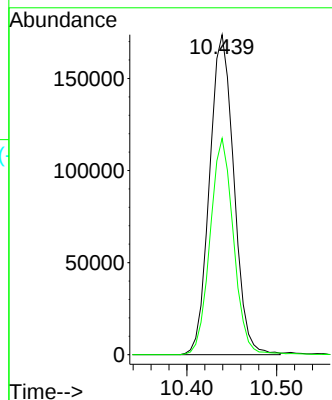
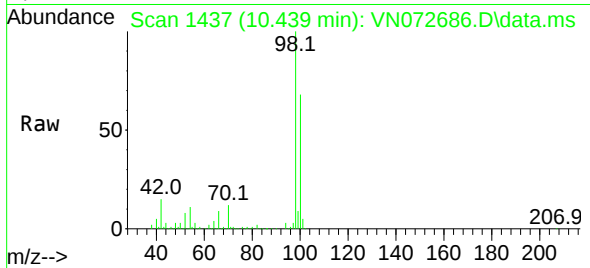




#63
Toluene-d8
Concen: 31.197 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

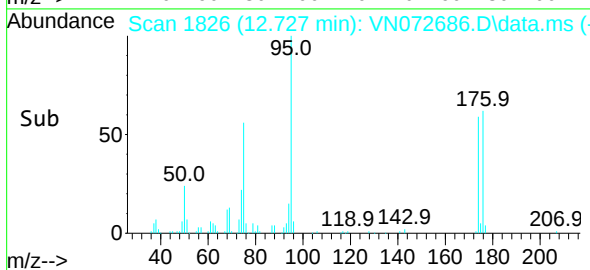
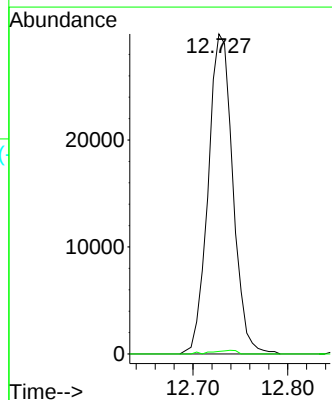
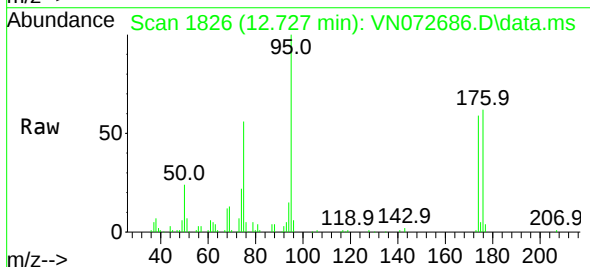
Instrument :
MSVOA_N
ClientSampleId :
14B-4

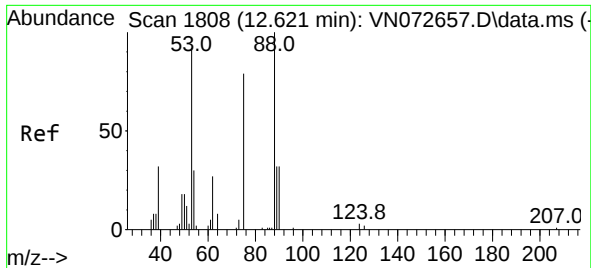
Tgt Ion: 98 Resp: 326874
Ion Ratio Lower Upper
98 100
100 64.9 50.6 76.0



#72
1,2,3-Trichloropropane
Concen: 12.825 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072686.D
Acq: 07 Jun 2022 14:30

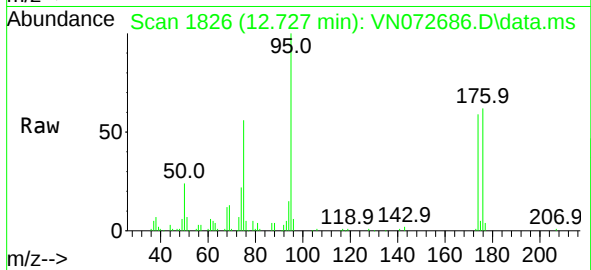
Tgt Ion: 75 Resp: 54240
Ion Ratio Lower Upper
75 100
77 1.0 0.0 378.0





#77
 t-1,4-Dichloro-2-butene
 Concen: 30.428 ug/l
 RT: 12.727 min Scan# 114
 Delta R.T. 0.106 min
 Lab File: VN072686.D
 Acq: 07 Jun 2022 14:30

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4



Tgt Ion: 75 Resp: 54240
 Ion Ratio Lower Upper
 75 100
 53 0.0 51.8 155.5#
 89 0.0 22.9 68.7#

