

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120321\
 Data File : VN069721.D
 Acq On : 3 Dec 2021 16:29
 Operator : JC/MD
 Sample : M4922-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D3-20211130

Quant Time: Dec 04 05:33:38 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)

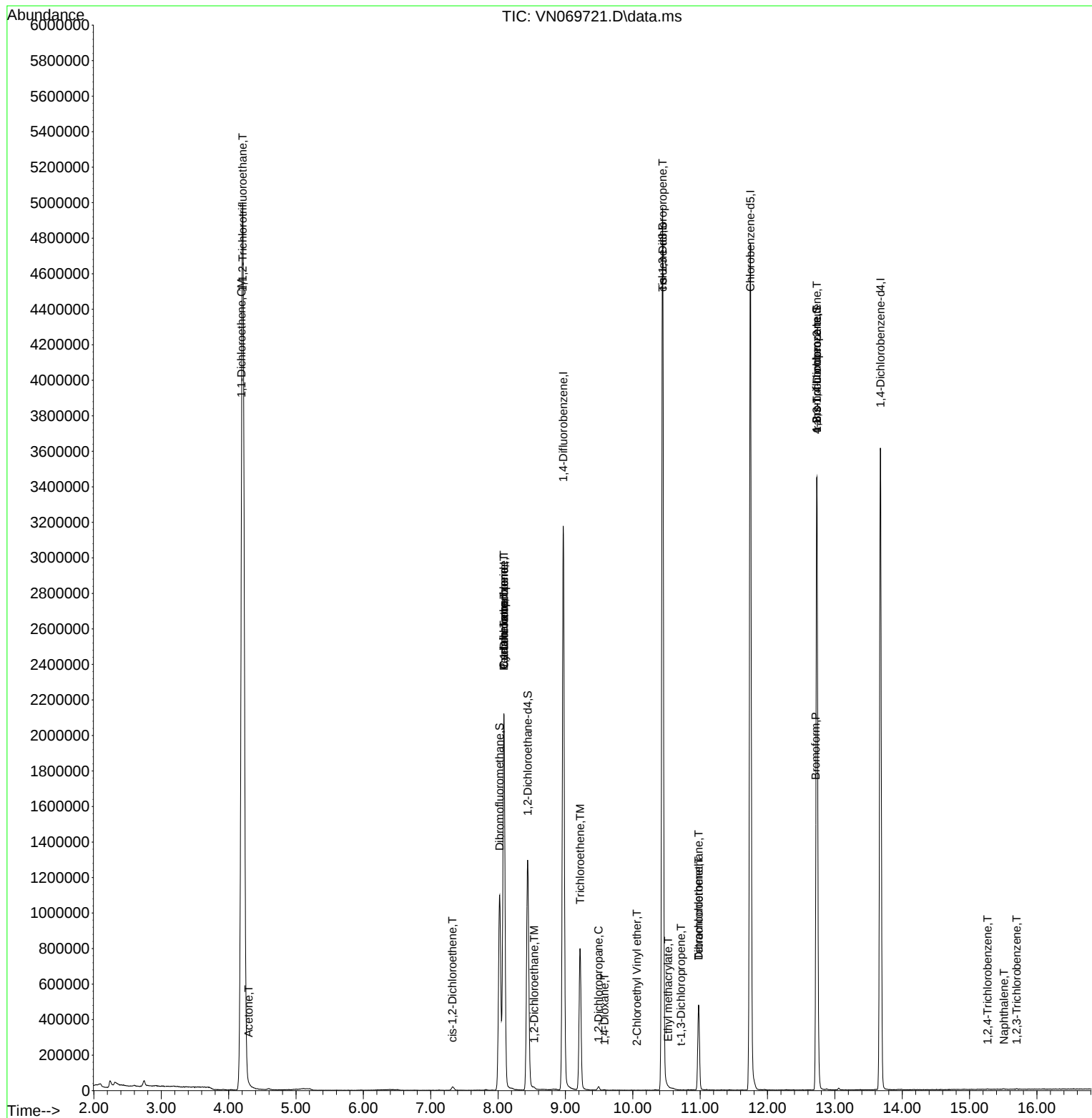
Internal Standards						
1) Pentafluorobenzene	8.088	168	1554851	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2683691	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2677808	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	964012	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1143734	47.642	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.280%
35) Dibromofluoromethane	8.024	113	794914	47.288	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.580%
50) Toluene-d8	10.443	98	3402960	50.416	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.840%
62) 4-Bromofluorobenzene	12.731	95	1217948	49.808	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	99.620%
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	4.208	101	3349110	217.907	ug/l	96
12) 1,1-Dichloroethene	4.191	96	13300	0.898	ug/l #	83
16) Acetone	4.296	43	13898	0.962	ug/l #	82
27) cis-1,2-Dichloroethene	7.321	96	10115	0.520	ug/l	90
31) Cyclohexane	8.086	56	40168	1.202	ug/l #	27
36) 1,1-Dichloropropene	8.086	75	134271	5.256	ug/l #	50
38) Carbon Tetrachloride	8.086	117	161071	6.429	ug/l #	17
42) 1,2-Dichloroethane	8.536	62	6667	0.211	ug/l	85
44) Trichloroethene	9.217	130	279933	15.019	ug/l	92
45) 1,2-Dichloropropane	9.491	63	6878	0.328	ug/l	95
49) 1,4-Dioxane	9.580	88	836	1.774	ug/l #	1
53) t-1,3-Dichloropropene	10.717	75	125	2.798	ug/l #	43
54) cis-1,3-Dichloropropene	10.443	75	1133	2.032	ug/l #	1
56) Ethyl methacrylate	10.526	69	150	2.283	ug/l #	20
58) 2-Chloroethyl Vinyl ether	10.062	63	110	18.399	ug/l #	45
60) Dibromochloromethane	10.977	129	101061	7.047	ug/l #	11
64) Tetrachloroethene	10.977	164	106156	5.846	ug/l	98
71) Bromoform	12.717	173	1136	2.797	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	683265	24.715	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	683265	78.381	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.268	180	416	2.903	ug/l #	1
95) Naphthalene	15.509	128	3650	4.056	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.700	180	653	2.476	ug/l	71

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

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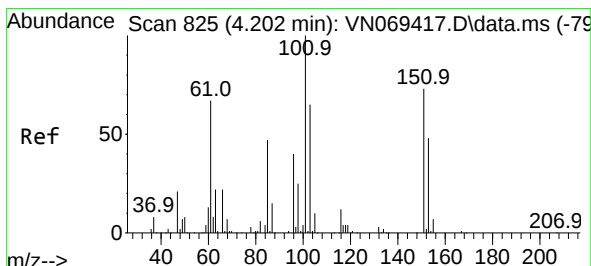
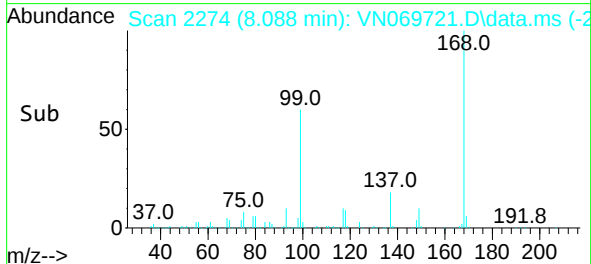
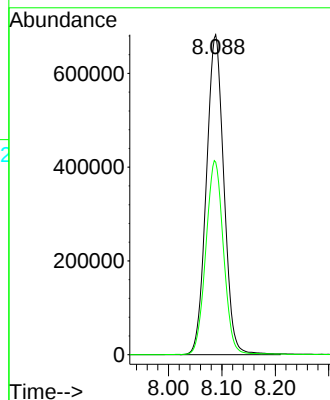
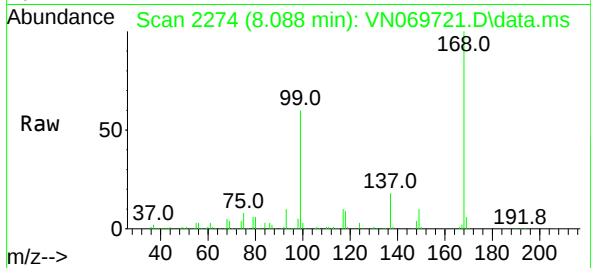




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

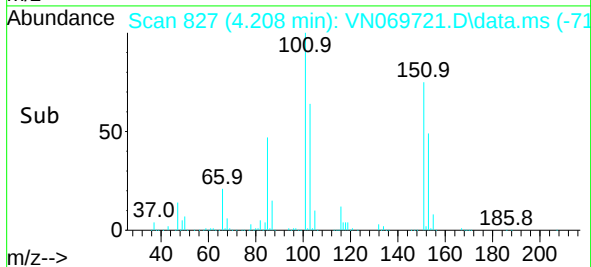
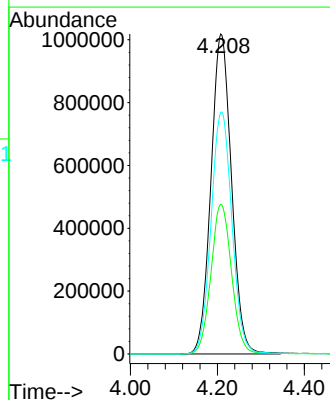
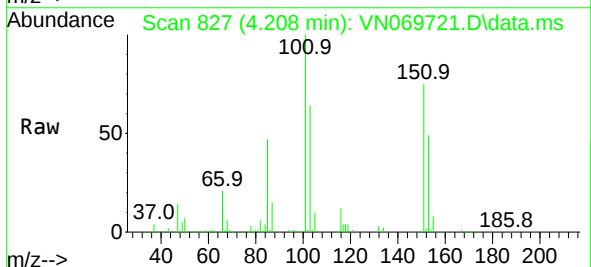
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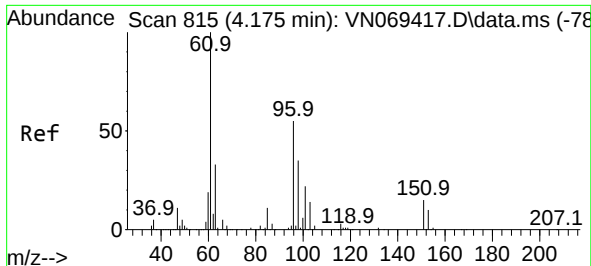
Tgt Ion:168 Resp: 1554851
Ion Ratio Lower Upper
168 100
99 60.1 41.3 61.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 217.907 ug/l
RT: 4.208 min Scan# 827
Delta R.T. 0.006 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion:101 Resp: 3349110
Ion Ratio Lower Upper
101 100
85 46.9 37.2 55.8
151 77.0 65.9 98.9

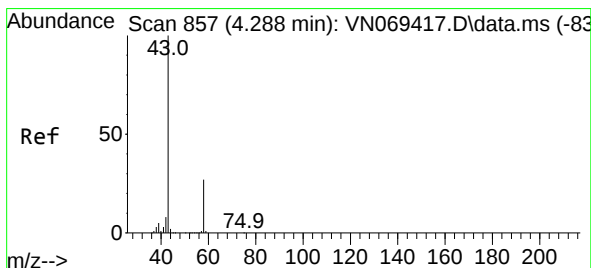
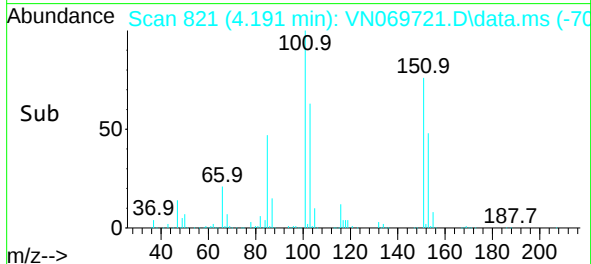
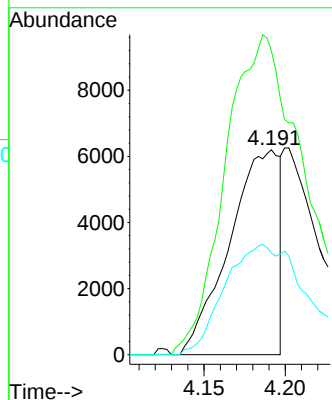
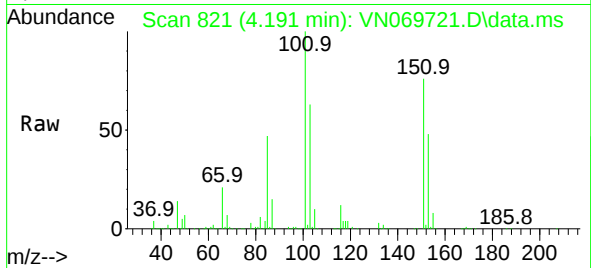




#12
1,1-Dichloroethene
Concen: 0.898 ug/l
RT: 4.191 min Scan# 815
Delta R.T. 0.016 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

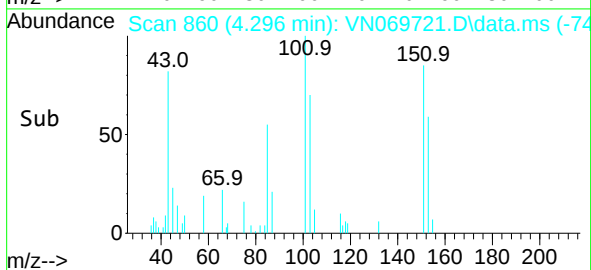
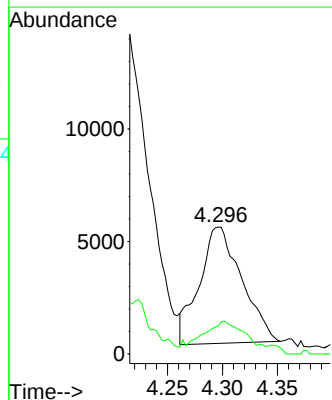
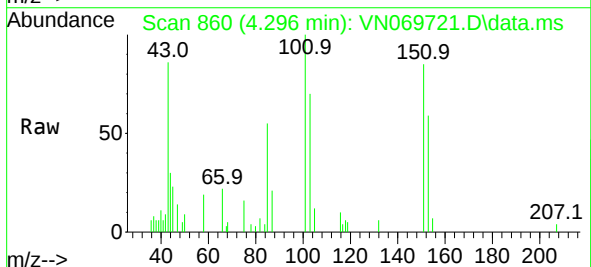
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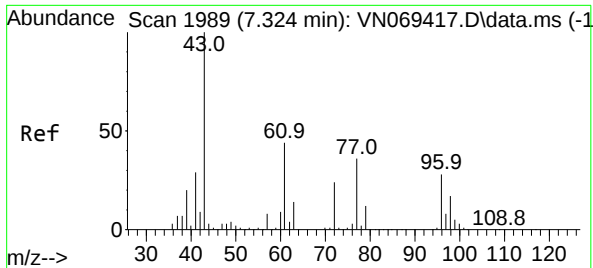
Tgt Ion: 96 Resp: 13300
Ion Ratio Lower Upper
96 100
61 143.0 131.0 196.6
98 49.5 52.4 78.6#



#16
Acetone
Concen: 0.962 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.006 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion: 43 Resp: 13898
Ion Ratio Lower Upper
43 100
58 19.2 23.1 34.7#

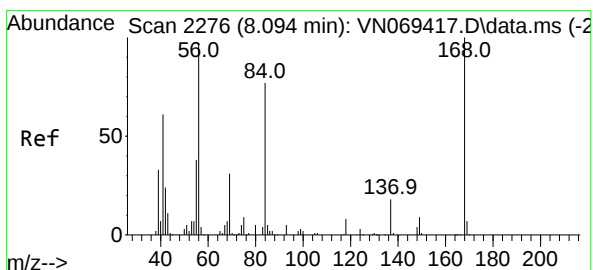
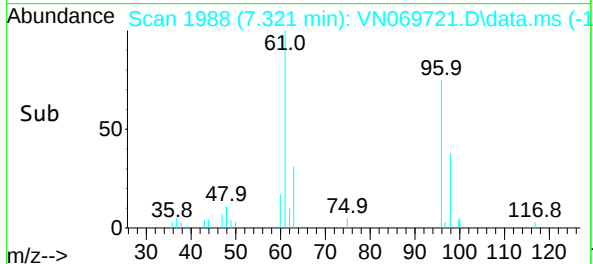
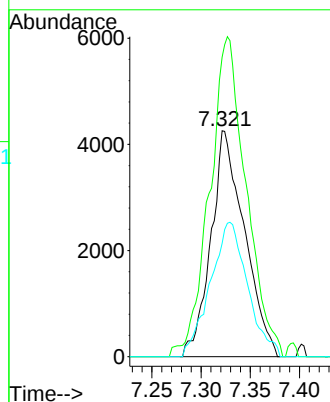
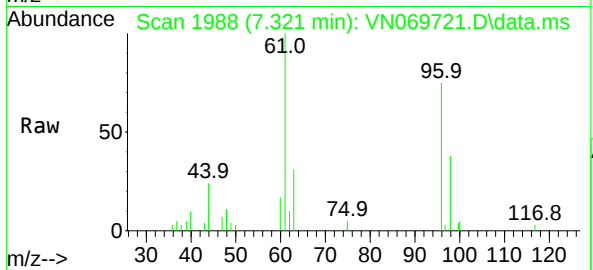




#27
 cis-1,2-Dichloroethene
 Concen: 0.520 ug/l
 RT: 7.321 min Scan# 1988
 Delta R.T. -0.005 min
 Lab File: VN069721.D
 Acq: 3 Dec 2021 16:29

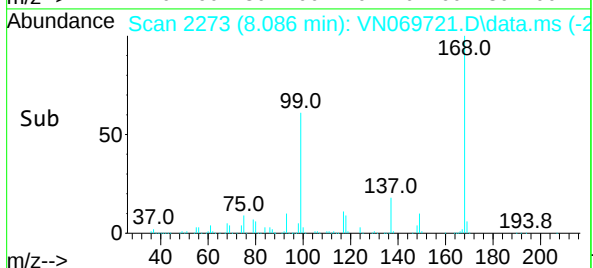
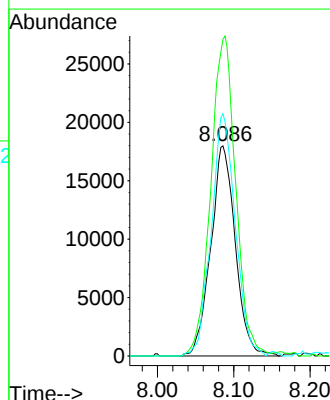
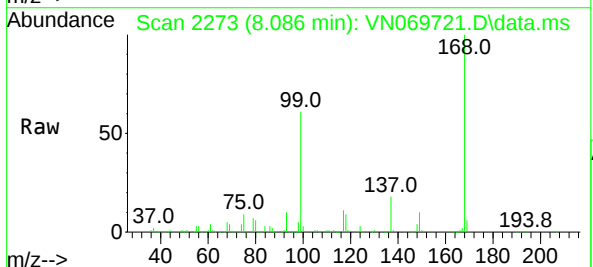
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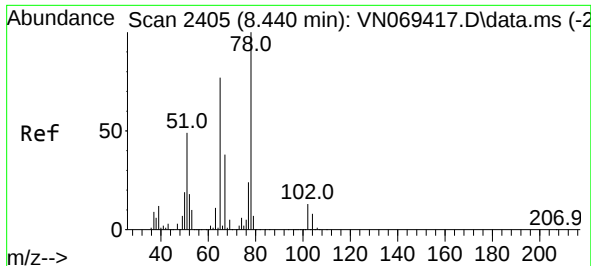
Tgt Ion: 96 Resp: 10115
 Ion Ratio Lower Upper
 96 100
 61 153.9 0.0 275.0
 98 65.9 0.0 129.6



#31
 Cyclohexane
 Concen: 1.202 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.008 min
 Lab File: VN069721.D
 Acq: 3 Dec 2021 16:29

Tgt Ion: 56 Resp: 40168
 Ion Ratio Lower Upper
 56 100
 69 150.6 27.1 40.7#
 84 115.4 73.4 110.0#

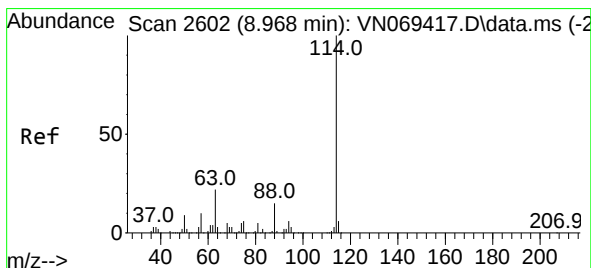
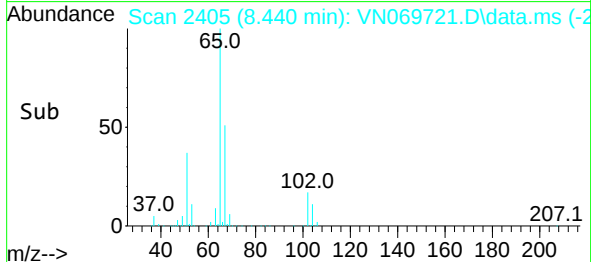
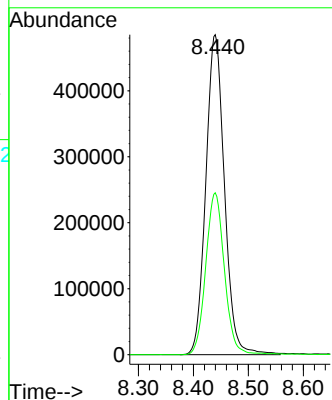
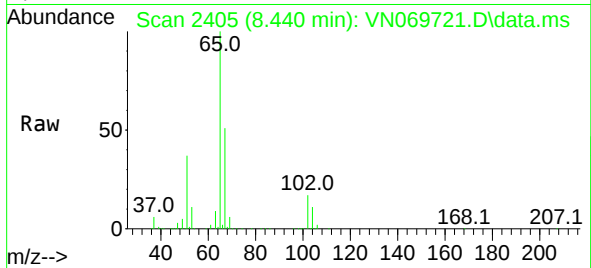




#33
 1,2-Dichloroethane-d4
 Concen: 47.642 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. 0.003 min
 Lab File: VN069721.D
 Acq: 3 Dec 2021 16:29

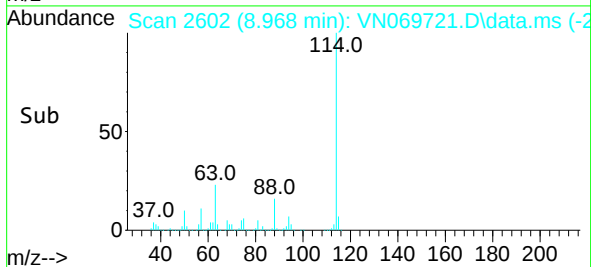
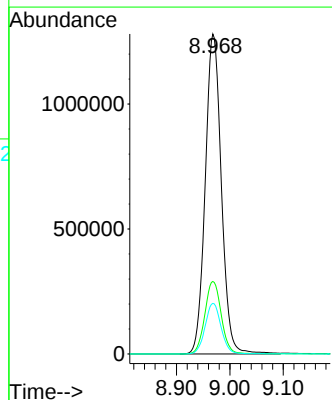
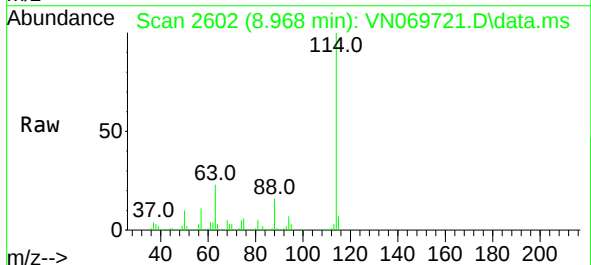
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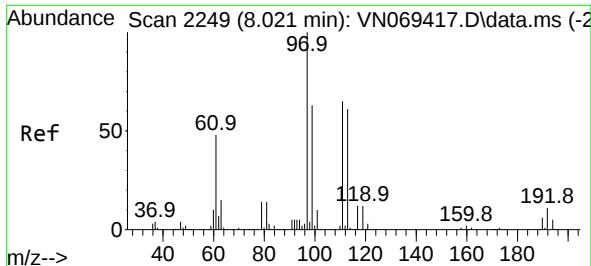
Tgt Ion: 65 Resp: 1143734
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.968 min Scan# 2602
 Delta R.T. 0.000 min
 Lab File: VN069721.D
 Acq: 3 Dec 2021 16:29

Tgt Ion: 114 Resp: 2683691
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 37.8
 88 15.8 0.0 27.4

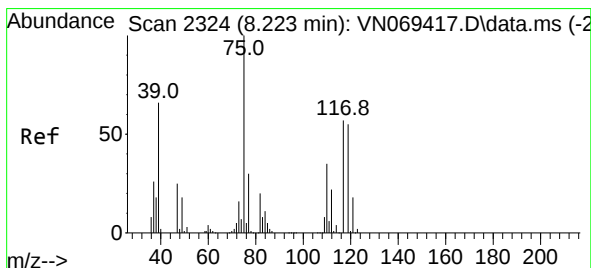
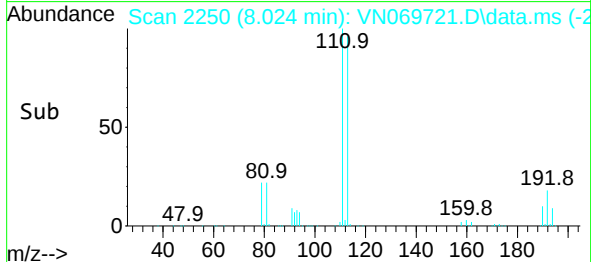
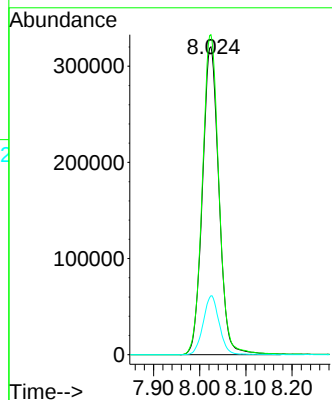
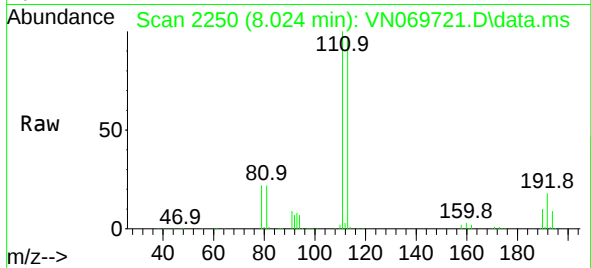




#35
Dibromofluoromethane
Concen: 47.288 ug/l
RT: 8.024 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

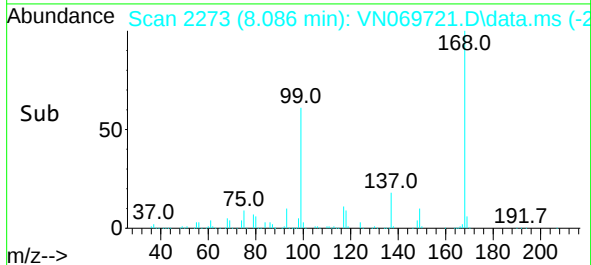
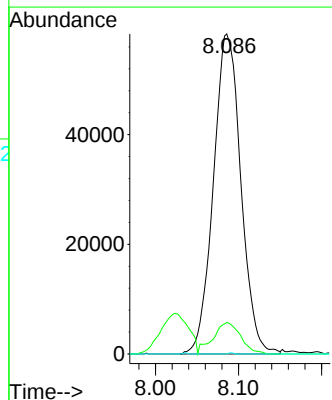
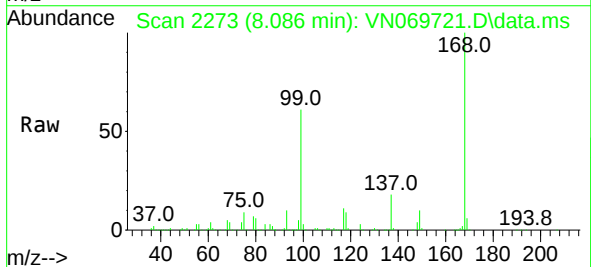
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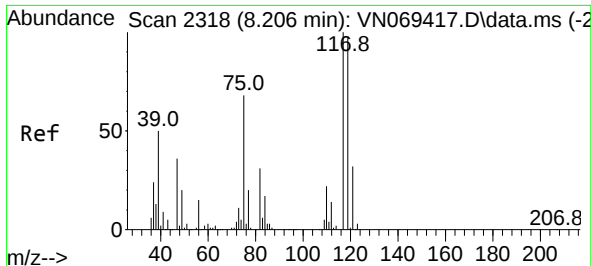
Tgt Ion:113 Resp: 794914
Ion Ratio Lower Upper
113 100
111 104.0 82.2 123.2
192 18.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.256 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion: 75 Resp: 134271
Ion Ratio Lower Upper
75 100
110 9.9 18.4 55.2#
77 0.1 24.4 36.6#

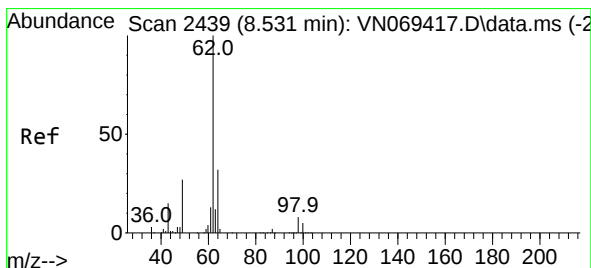
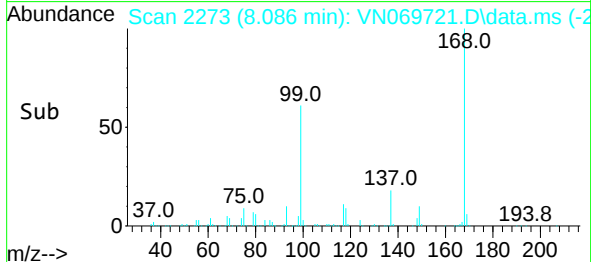
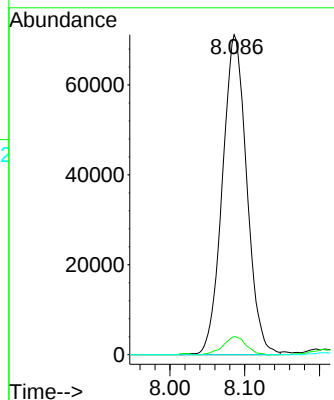
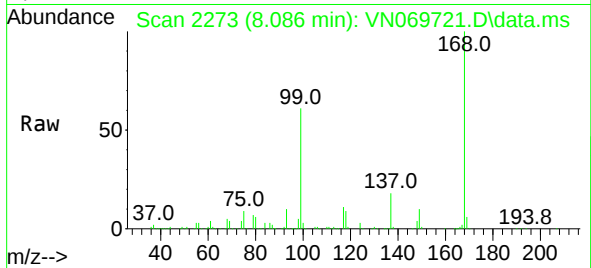




#38
Carbon Tetrachloride
Concen: 6.429 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.121 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

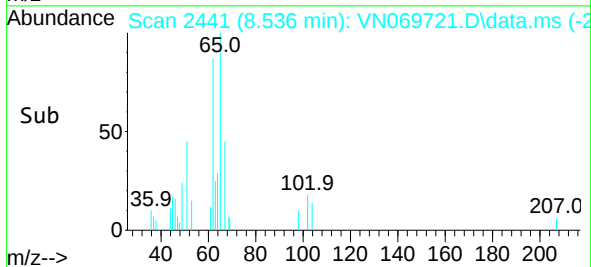
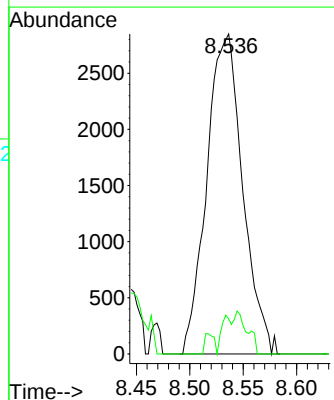
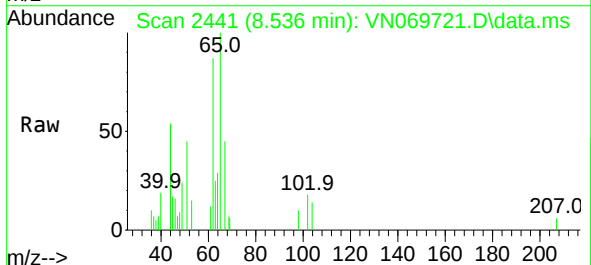
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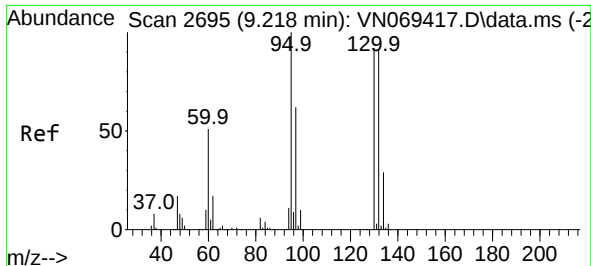
Tgt Ion:117 Resp: 161071
Ion Ratio Lower Upper
117 100
119 5.7 76.1 114.1#
121 0.0 24.2 36.2#



#42
1,2-Dichloroethane
Concen: 0.211 ug/l
RT: 8.536 min Scan# 2441
Delta R.T. 0.006 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion: 62 Resp: 6667
Ion Ratio Lower Upper
62 100
98 3.3 0.0 17.6

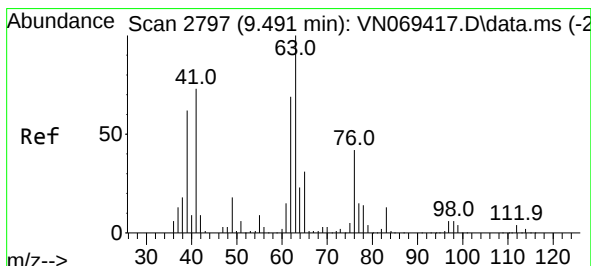
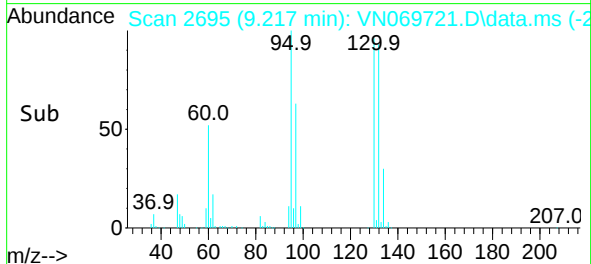
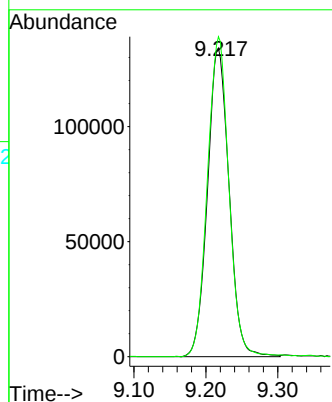
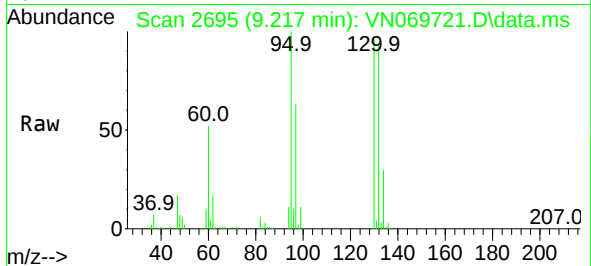




#44
Trichloroethene
Concen: 15.019 ug/l
RT: 9.217 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

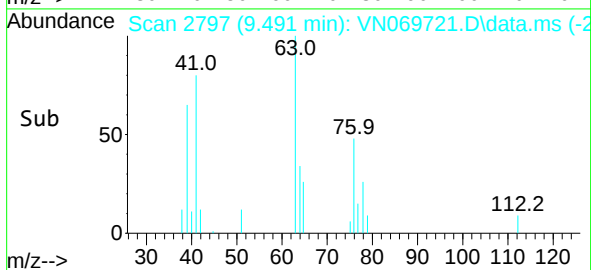
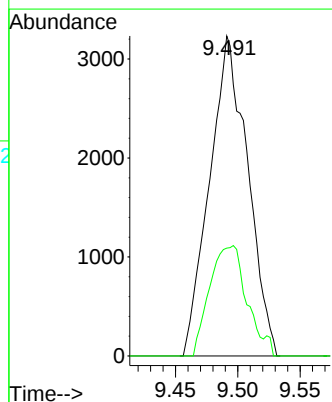
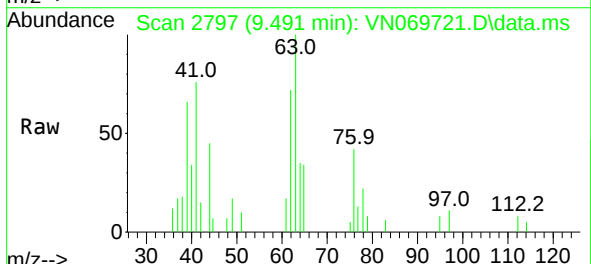
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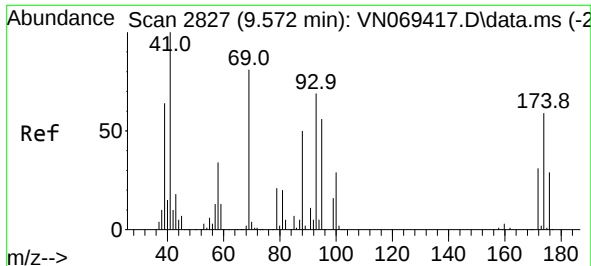
Tgt Ion:130 Resp: 279933
Ion Ratio Lower Upper
130 100
95 103.7 0.0 191.2



#45
1,2-Dichloropropane
Concen: 0.328 ug/l
RT: 9.491 min Scan# 2797
Delta R.T. 0.000 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion: 63 Resp: 6878
Ion Ratio Lower Upper
63 100
65 33.7 24.7 37.1





#49

1,4-Dioxane

Concen: 1.774 ug/l

RT: 9.580 min Scan# 21

Delta R.T. 0.008 min

Lab File: VN069721.D

Acq: 3 Dec 2021 16:29

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20211130

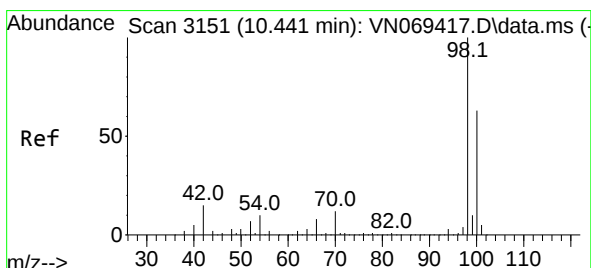
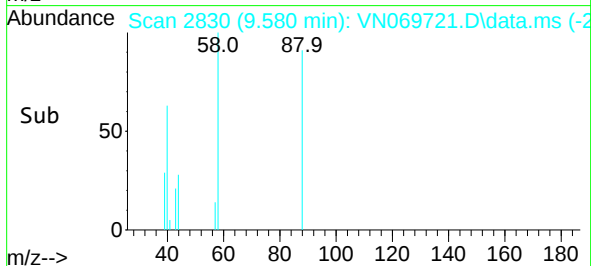
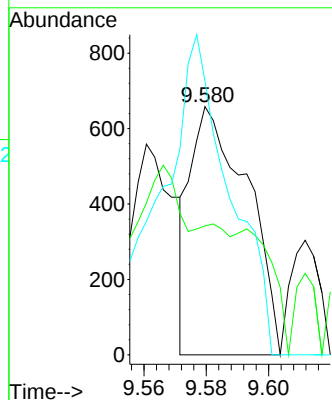
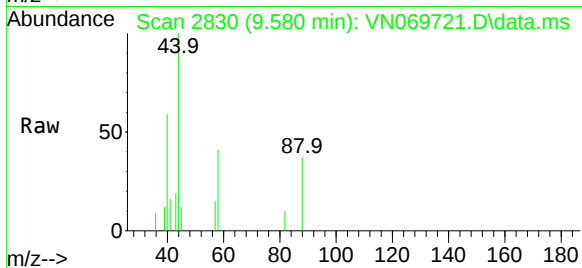
Tgt Ion: 88 Resp: 836

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

58 161.1 50.6 75.8#



#50

Toluene-d8

Concen: 50.416 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069721.D

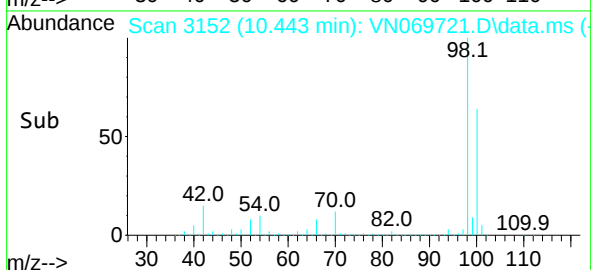
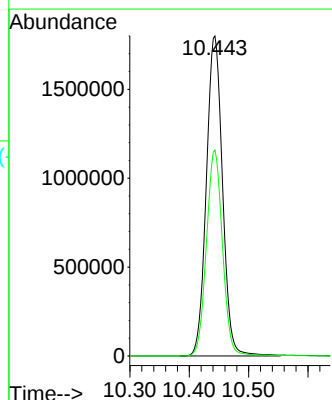
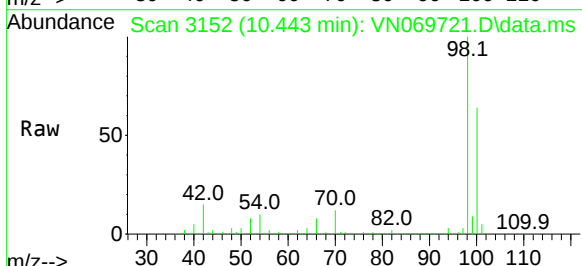
Acq: 3 Dec 2021 16:29

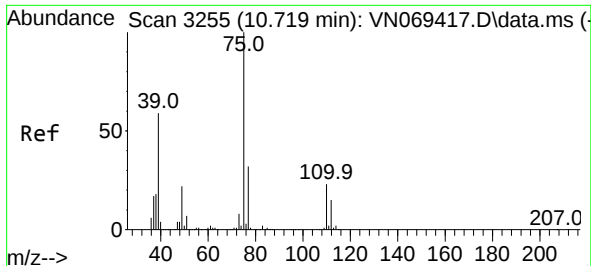
Tgt Ion: 98 Resp: 3402960

Ion Ratio Lower Upper

98 100

100 63.8 50.4 75.6

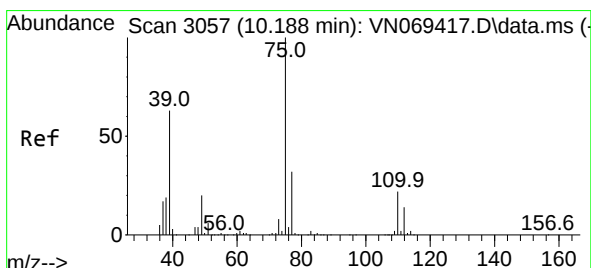
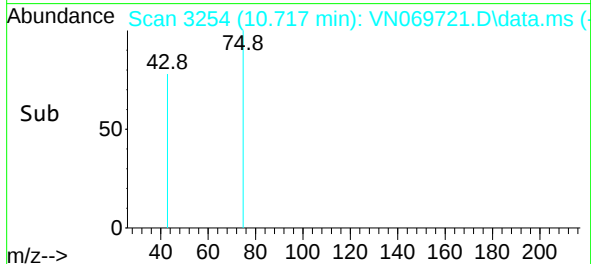
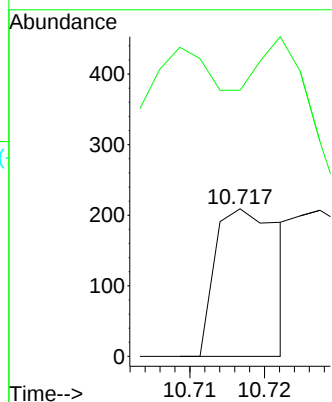
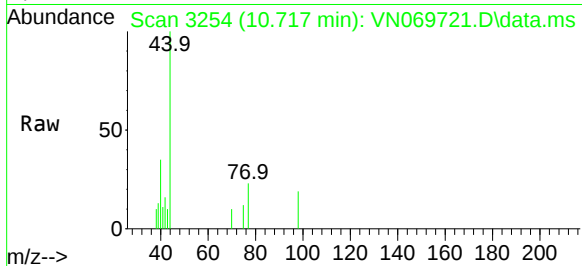




#53
t-1,3-Dichloropropene
Concen: 2.798 ug/l
RT: 10.717 min Scan# 3152
Delta R.T. -0.002 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

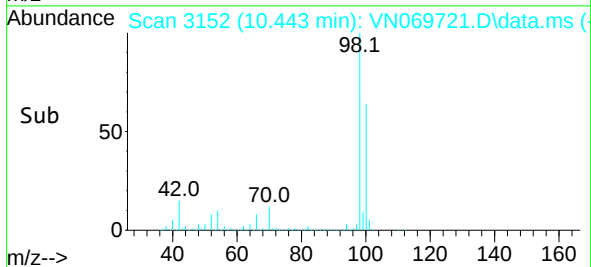
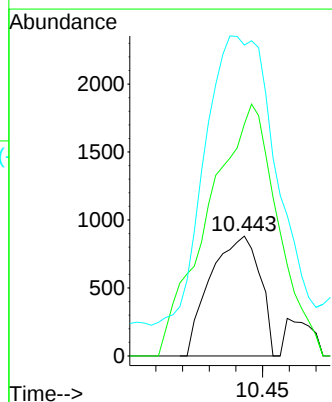
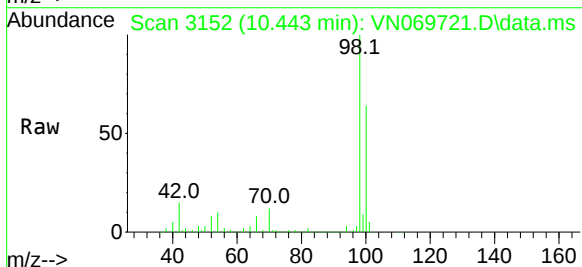
Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20211130

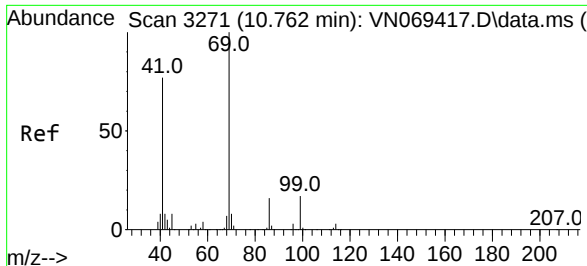
Tgt Ion: 75 Resp: 125
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.032 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.252 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion: 75 Resp: 1133
Ion Ratio Lower Upper
75 100
77 132.6 26.4 39.6#
39 218.5 42.5 63.7#

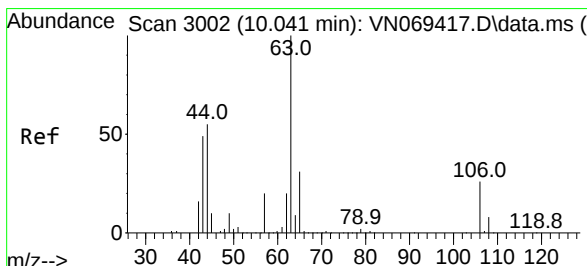
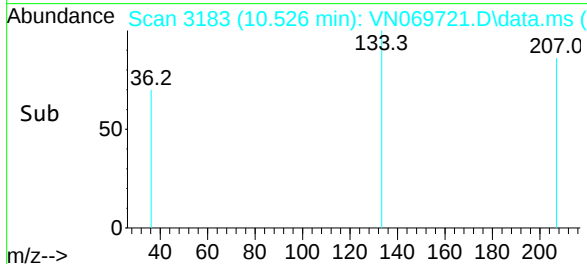
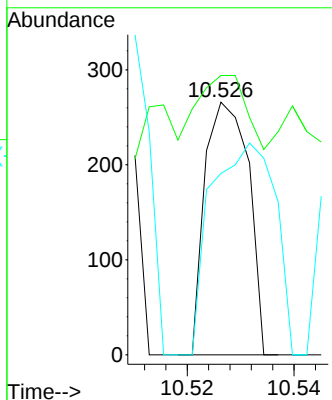
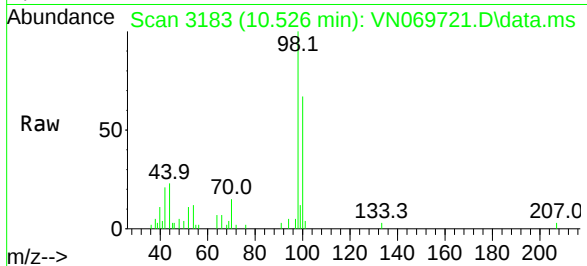




#56
Ethyl methacrylate
Concen: 2.283 ug/l
RT: 10.526 min Scan# 31
Delta R.T. -0.236 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

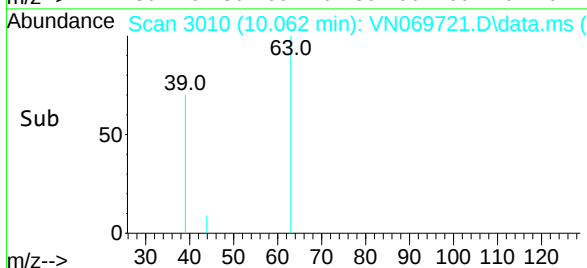
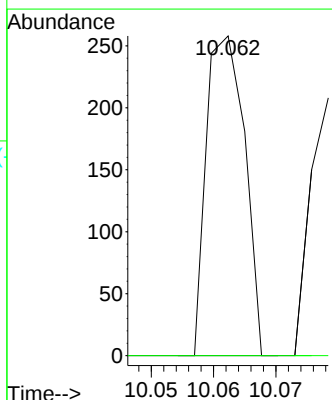
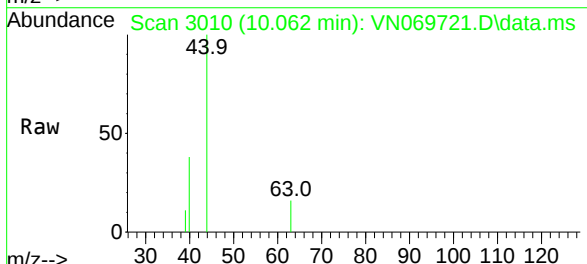
Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20211130

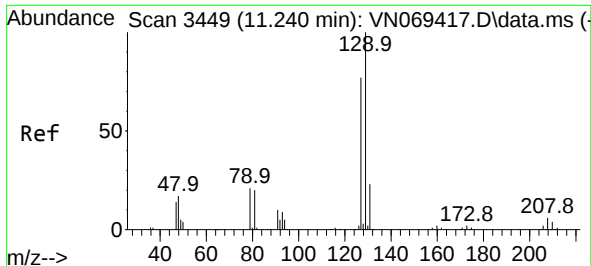
Tgt Ion: 69 Resp: 150
Ion Ratio Lower Upper
69 100
41 102.7 51.4 77.0#
39 124.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.399 ug/l
RT: 10.062 min Scan# 3010
Delta R.T. 0.019 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion: 63 Resp: 110
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

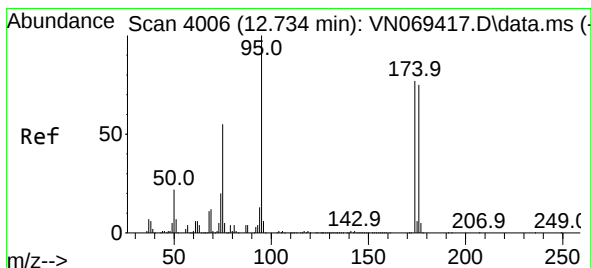
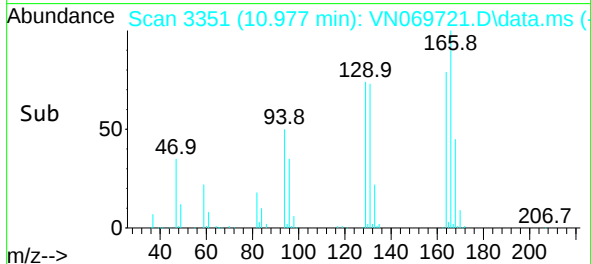
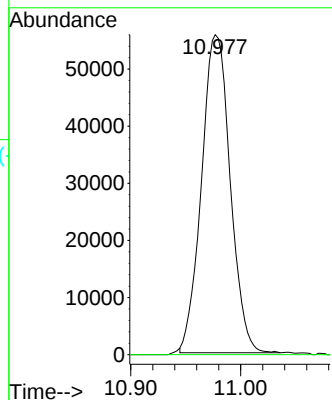
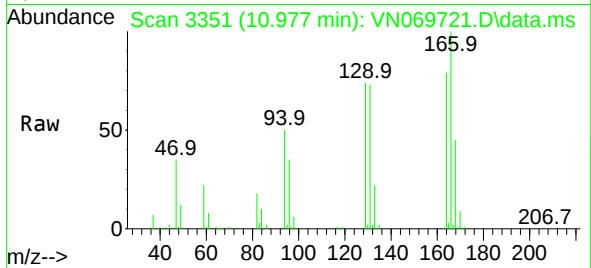




#60
Dibromochloromethane
Concen: 7.047 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

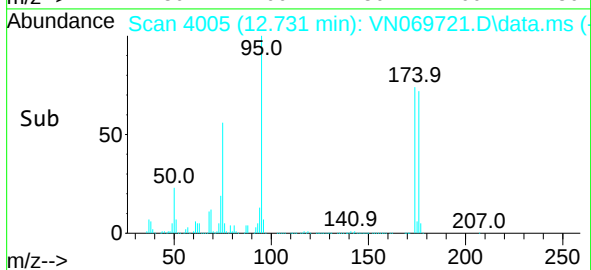
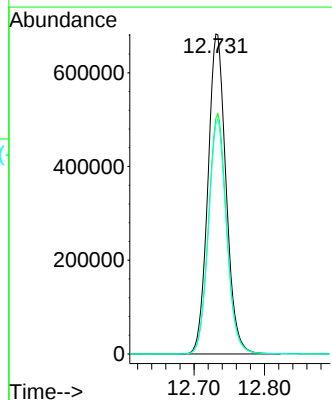
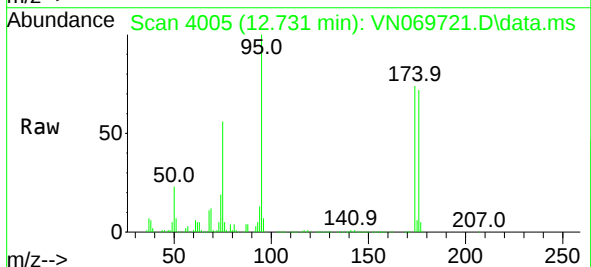
Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20211130

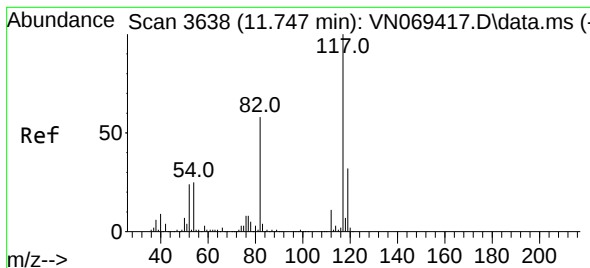
Tgt Ion:129 Resp: 101061
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 49.808 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion: 95 Resp: 1217948
Ion Ratio Lower Upper
95 100
174 75.5 0.0 187.2
176 73.2 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.747 min Scan# 3638

Delta R.T. 0.001 min

Lab File: VN069721.D

Acq: 3 Dec 2021 16:29

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20211130

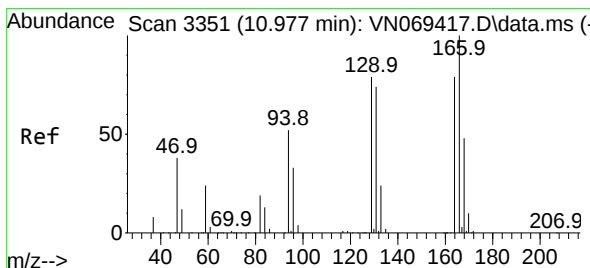
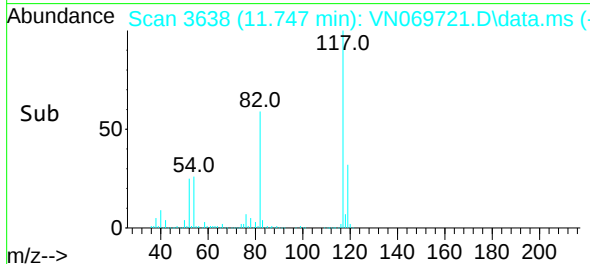
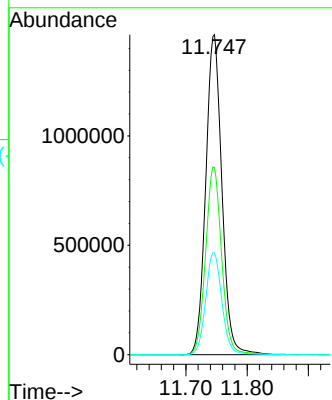
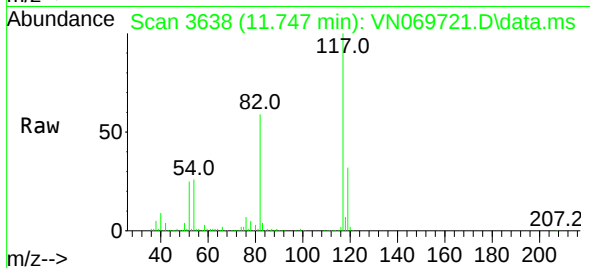
Tgt Ion:117 Resp: 2677808

Ion Ratio Lower Upper

117 100

82 58.5 42.4 63.6

119 31.9 25.4 38.2



#64

Tetrachloroethene

Concen: 5.846 ug/l

RT: 10.977 min Scan# 3351

Delta R.T. -0.002 min

Lab File: VN069721.D

Acq: 3 Dec 2021 16:29

Tgt Ion:164 Resp: 106156

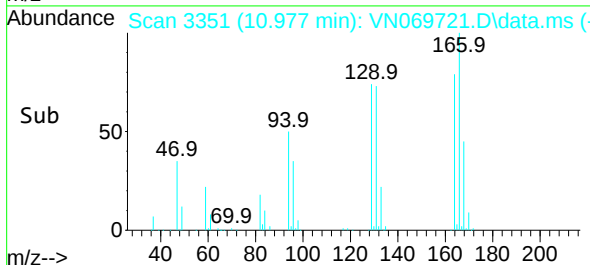
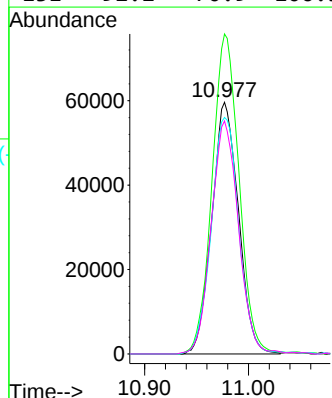
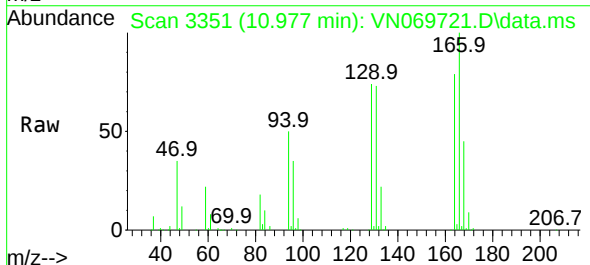
Ion Ratio Lower Upper

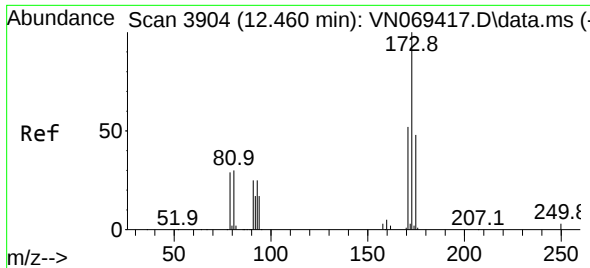
164 100

166 127.1 101.9 152.9

129 93.9 72.0 108.0

131 92.2 70.9 106.3

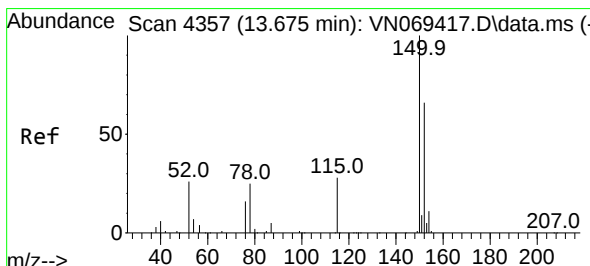
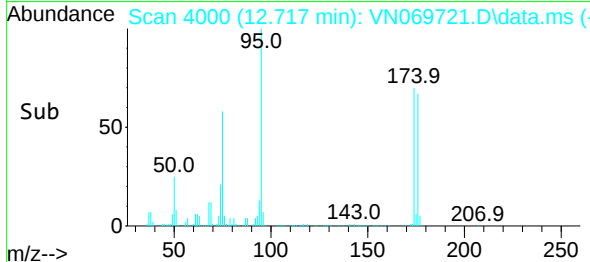
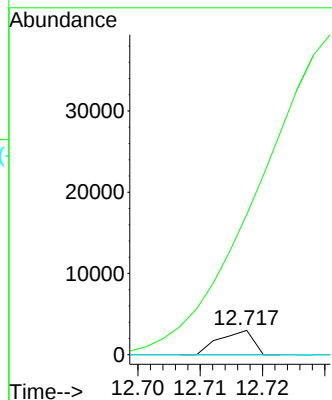
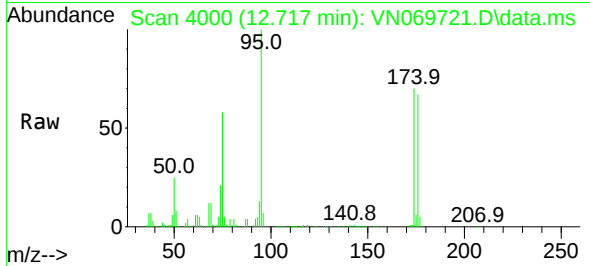




#71
Bromoform
Concen: 2.797 ug/l
RT: 12.717 min Scan# 40
Delta R.T. 0.257 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

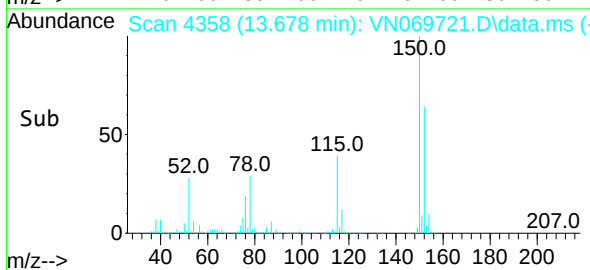
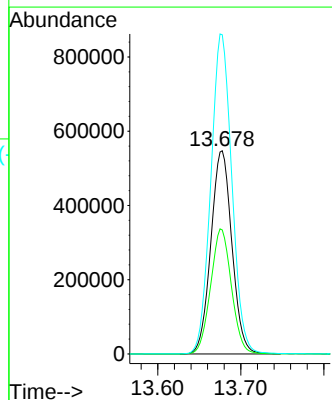
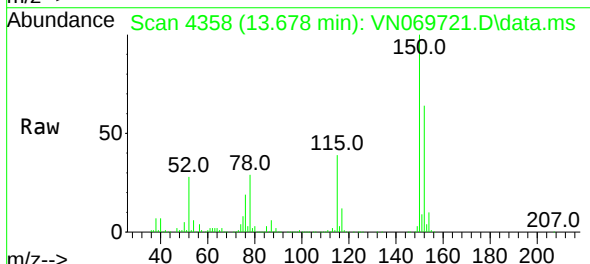
Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20211130

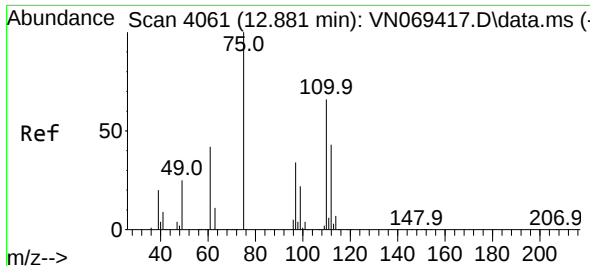
Tgt Ion:173 Resp: 1136
Ion Ratio Lower Upper
173 100
175 5902.6 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion:152 Resp: 964012
Ion Ratio Lower Upper
152 100
115 60.8 27.5 82.5
150 157.1 0.0 344.4

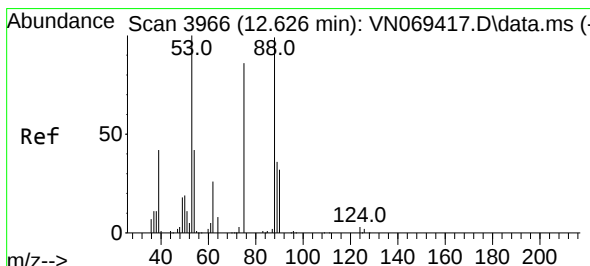
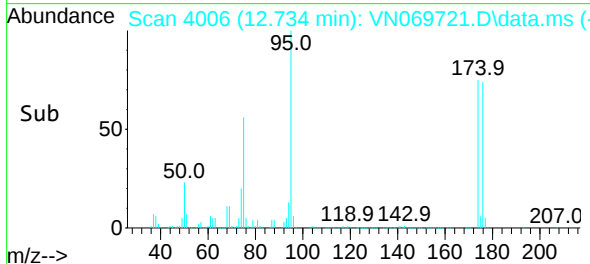
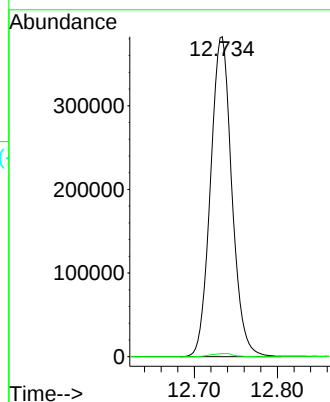
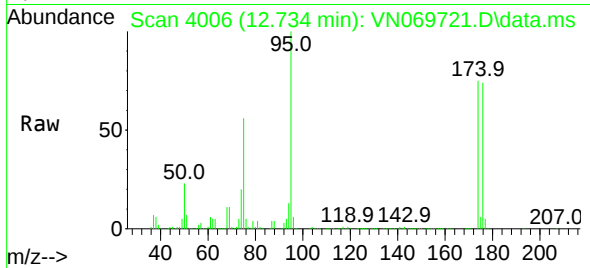




#76
1,2,3-Trichloropropane
Concen: 24.715 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

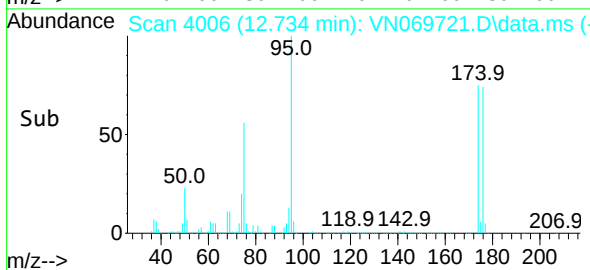
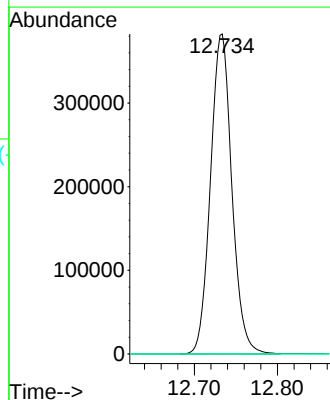
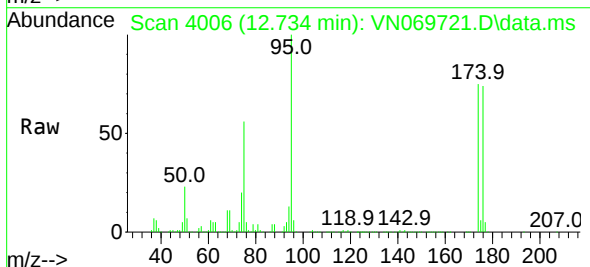
Instrument :
MSVOA_N
ClientSampleId :
RE131D3-20211130

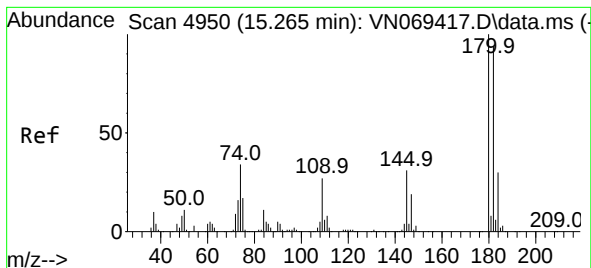
Tgt Ion: 75 Resp: 683265
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.381 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069721.D
Acq: 3 Dec 2021 16:29

Tgt Ion: 75 Resp: 683265
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: 2.903 ug/l

RT: 15.268 min Scan# 4950

Delta R.T. 0.003 min

Lab File: VN069721.D

Acq: 3 Dec 2021 16:29

Instrument :

MSVOA_N

ClientSampleId :

RE131D3-20211130

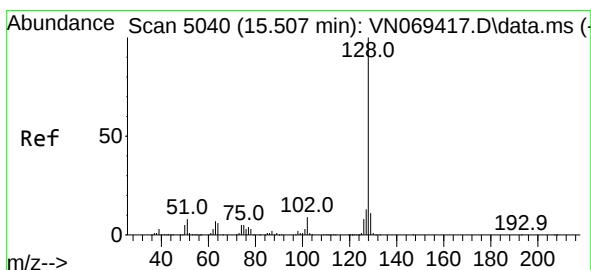
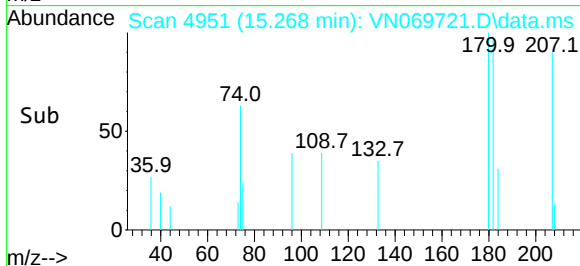
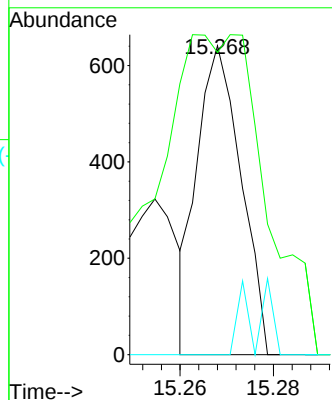
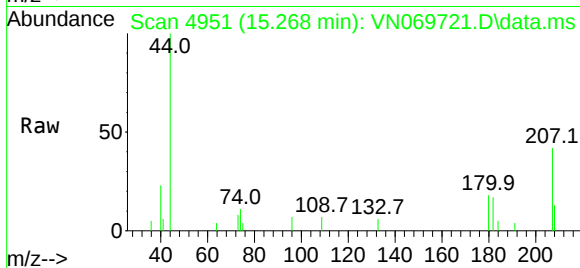
Tgt Ion:180 Resp: 416

Ion Ratio Lower Upper

180 100

182 272.6 48.3 144.9#

145 12.0 14.5 43.5#



#95

Naphthalene

Concen: 4.056 ug/l

RT: 15.509 min Scan# 5041

Delta R.T. 0.002 min

Lab File: VN069721.D

Acq: 3 Dec 2021 16:29

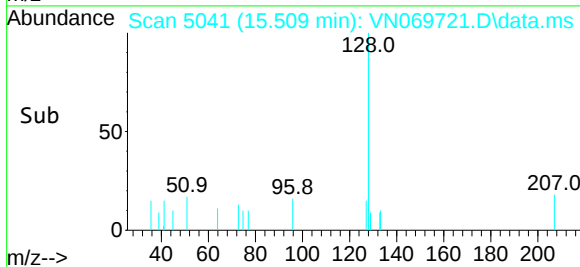
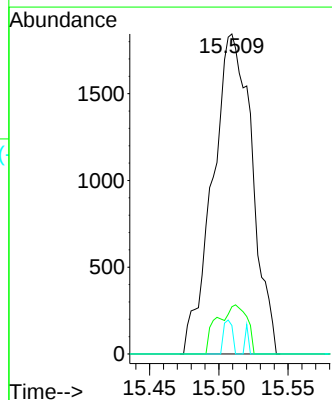
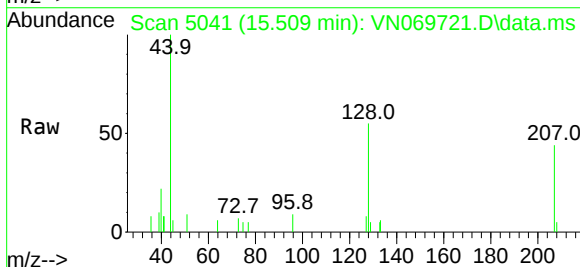
Tgt Ion:128 Resp: 3650

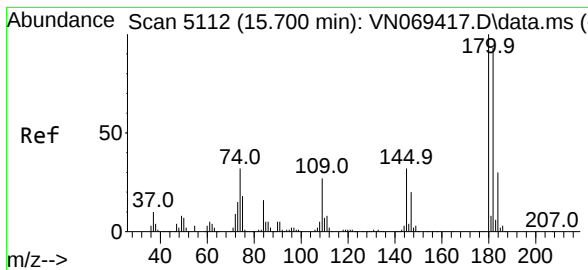
Ion Ratio Lower Upper

128 100

127 11.6 10.5 15.7

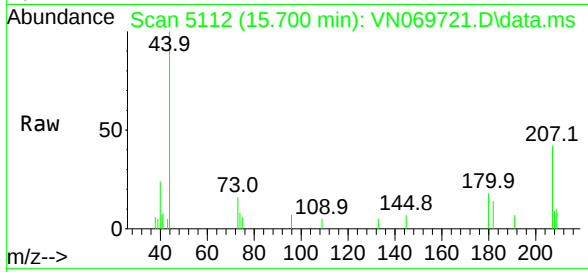
129 2.4 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.476 ug/l
 RT: 15.700 min Scan# 51
 Delta R.T. -0.002 min
 Lab File: VN069721.D
 Acq: 3 Dec 2021 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D3-20211130



Tgt Ion:180 Resp: 653
 Ion Ratio Lower Upper
 180 100
 182 122.8 47.4 142.2
 145 15.2 15.0 45.1

