

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120421\
 Data File : VN069772.D
 Acq On : 4 Dec 2021 18:04
 Operator : JC/MD
 Sample : M4922-13
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP04-20211130

Quant Time: Dec 06 00:18:05 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)

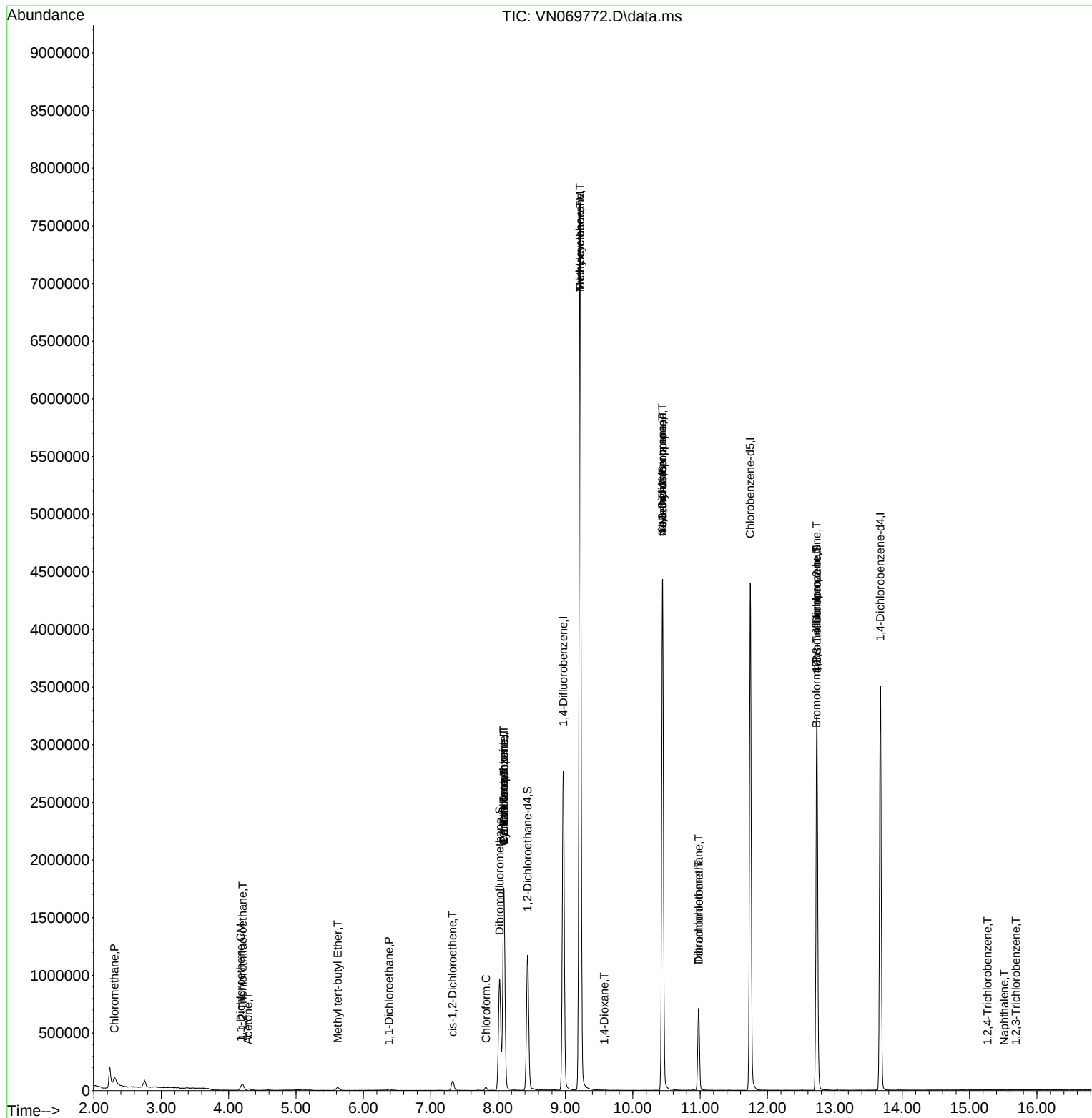
Internal Standards						
1) Pentafluorobenzene	8.085	168	1319943	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2334759	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2436684	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	940561	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1018599	49.980	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.960%
35) Dibromofluoromethane	8.024	113	701391	47.960	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.920%
50) Toluene-d8	10.443	98	3020316	51.434	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.860%
62) 4-Bromofluorobenzene	12.731	95	1144927	53.819	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	107.640%
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	4688	0.243	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.207	101	31117	2.385	ug/l	95
12) 1,1-Dichloroethene	4.181	96	7201	0.573	ug/l	87
16) Acetone	4.288	43	5680	0.463	ug/l #	86
19) Methyl tert-butyl Ether	5.621	73	35687	0.730	ug/l	97
24) 1,1-Dichloroethane	6.380	63	9537	0.332	ug/l #	94
27) cis-1,2-Dichloroethene	7.324	96	47058	2.852	ug/l	95
30) Chloroform	7.820	83	25124	0.867	ug/l	99
31) Cyclohexane	8.088	56	33582	1.184	ug/l #	35
36) 1,1-Dichloropropene	8.085	75	113622	5.112	ug/l #	49
38) Carbon Tetrachloride	8.083	117	135665	6.224	ug/l #	16
39) Methylcyclohexane	9.215	83	36027	1.363	ug/l #	1
44) Trichloroethene	9.217	130	2696483	166.295	ug/l	91
49) 1,4-Dioxane	9.577	88	7739	18.879	ug/l #	84
51) 4-Methyl-2-Pentanone	10.443	43	17549	0.553	ug/l #	1
53) t-1,3-Dichloropropene	10.440	75	952	2.827	ug/l #	1
54) cis-1,3-Dichloropropene	10.440	75	1006	2.032	ug/l #	1
60) Dibromochloromethane	10.977	129	150237	10.357	ug/l #	11
64) Tetrachloroethene	10.977	164	160206	9.696	ug/l	96
71) Bromoform	12.725	173	2013	2.859	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	644007	23.876	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	644007	75.857	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.268	180	469	2.907	ug/l #	54
95) Naphthalene	15.515	128	1388	4.013	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.689	180	182	2.447	ug/l #	1

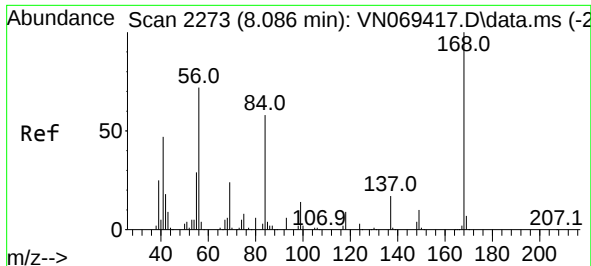
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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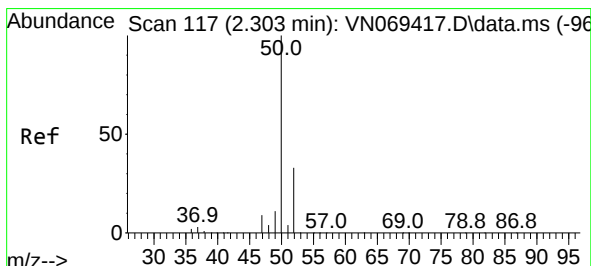
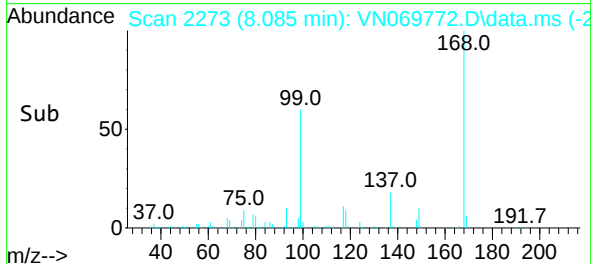
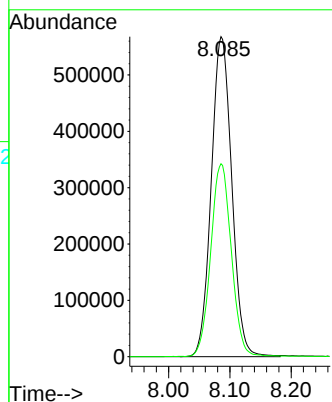
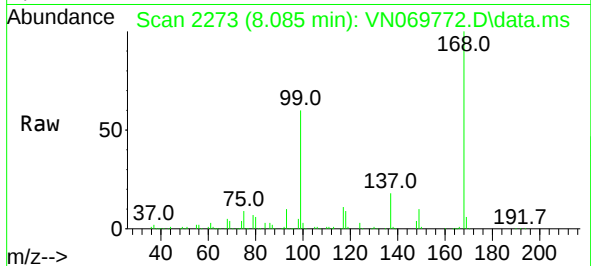




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.085 min Scan# 21
Delta R.T. -0.001 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

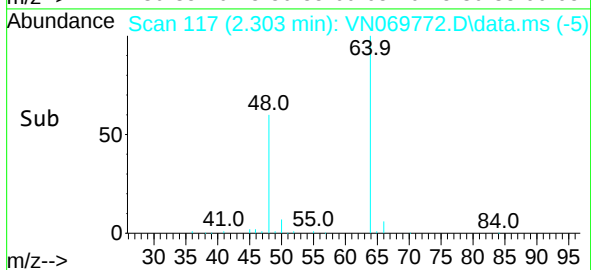
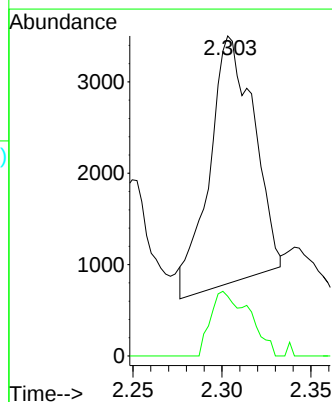
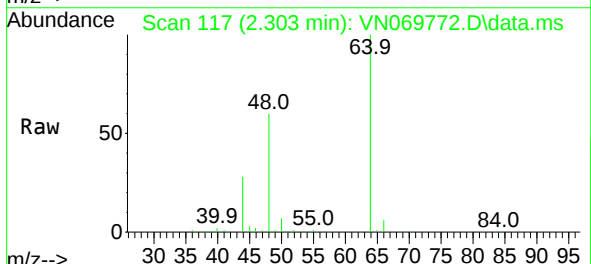
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

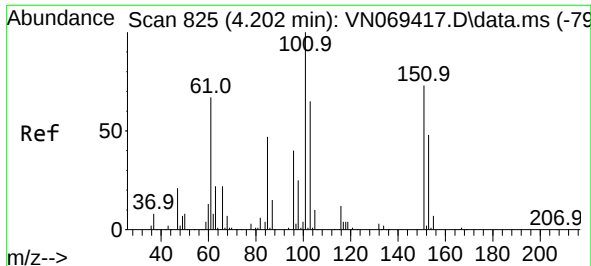
Tgt Ion:168 Resp: 1319943
Ion Ratio Lower Upper
168 100
99 60.2 41.3 61.9



#3
Chloromethane
Concen: 0.243 ug/l
RT: 2.303 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 50 Resp: 4688
Ion Ratio Lower Upper
50 100
52 25.9 25.4 38.0

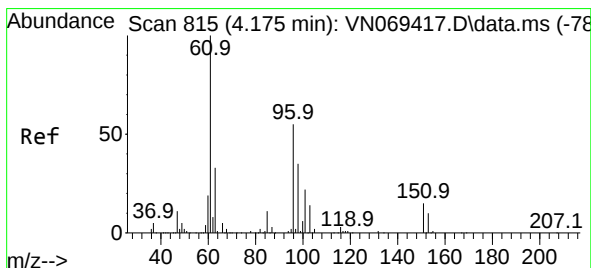
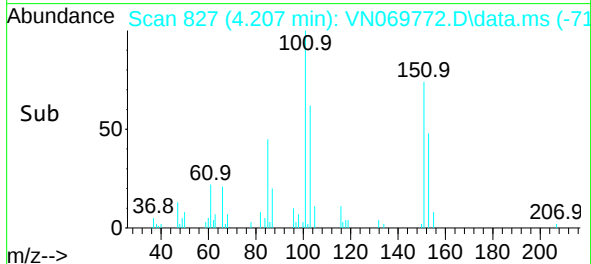
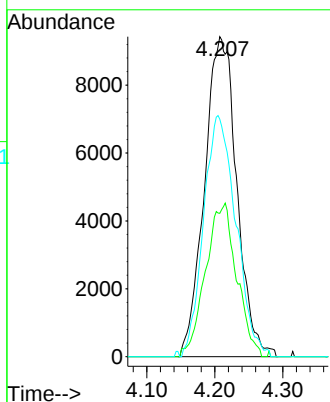
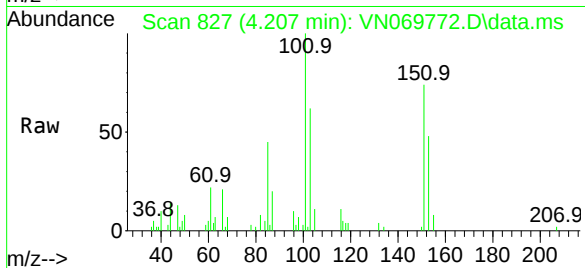




#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.385 ug/l
RT: 4.207 min Scan# 811
Delta R.T. 0.005 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

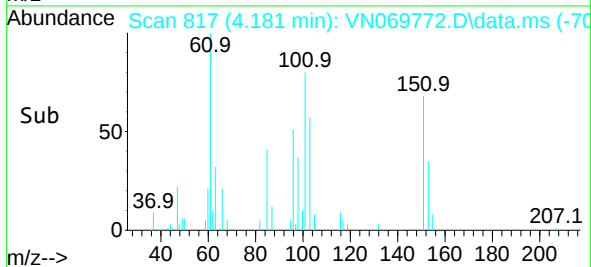
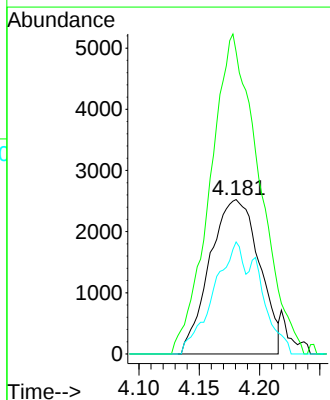
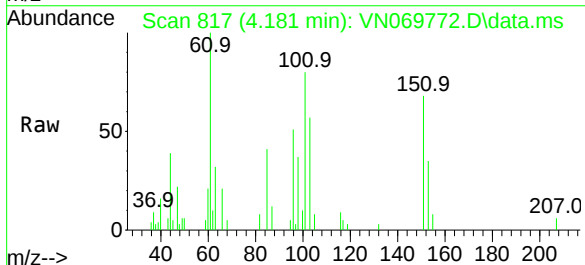
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

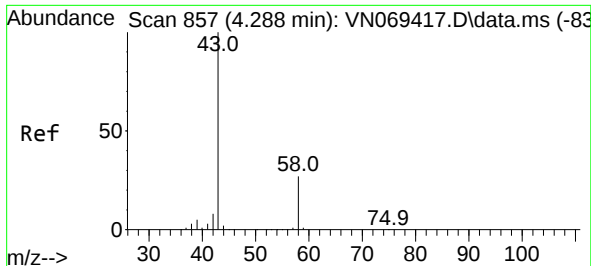
Tgt Ion:101 Resp: 31117
Ion Ratio Lower Upper
101 100
85 46.2 37.2 55.8
151 75.8 65.9 98.9



#12
1,1-Dichloroethene
Concen: 0.573 ug/l
RT: 4.181 min Scan# 817
Delta R.T. 0.005 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 96 Resp: 7201
Ion Ratio Lower Upper
96 100
61 183.9 131.0 196.6
98 72.5 52.4 78.6

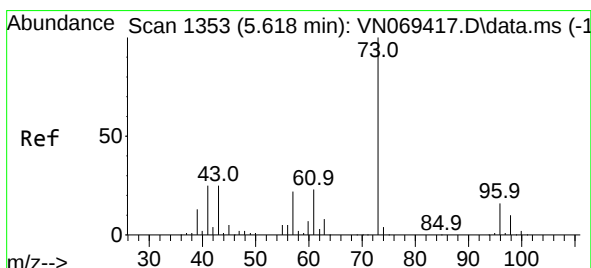
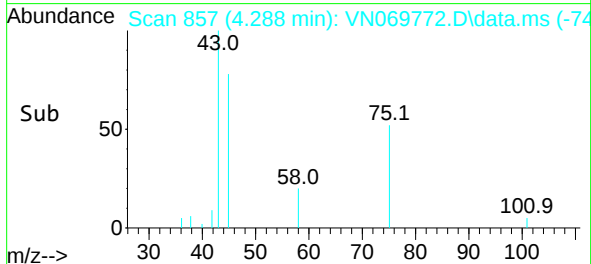
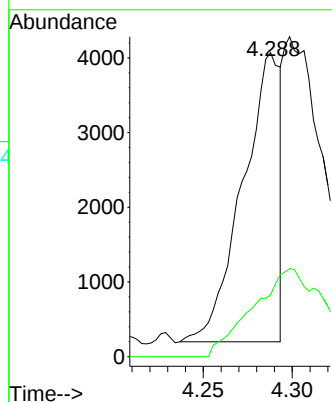
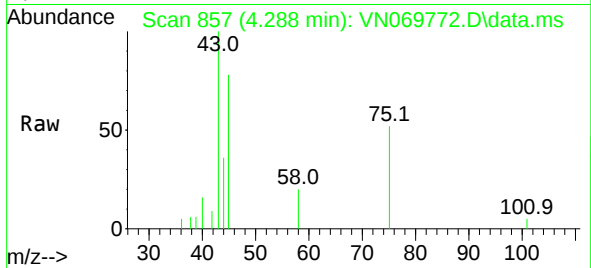




#16
Acetone
Concen: 0.463 ug/l
RT: 4.288 min Scan# 857
Delta R.T. -0.003 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

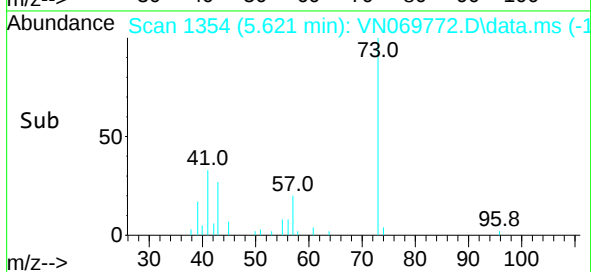
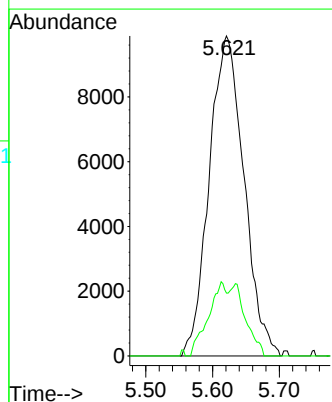
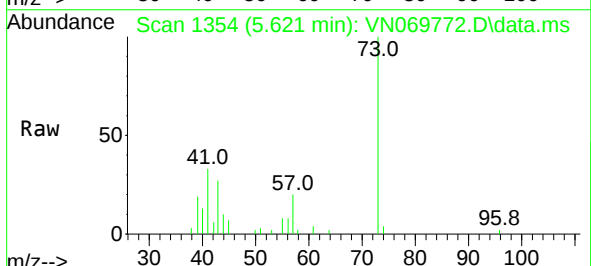
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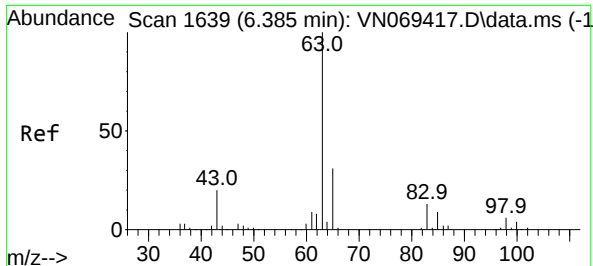
Tgt Ion: 43 Resp: 5680
Ion Ratio Lower Upper
43 100
58 21.4 23.1 34.7#



#19
Methyl tert-butyl Ether
Concen: 0.730 ug/l
RT: 5.621 min Scan# 1354
Delta R.T. 0.003 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 73 Resp: 35687
Ion Ratio Lower Upper
73 100
57 19.7 16.8 25.2

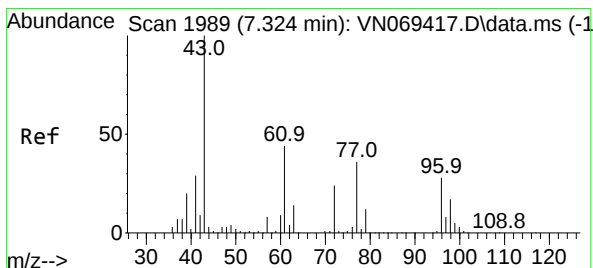
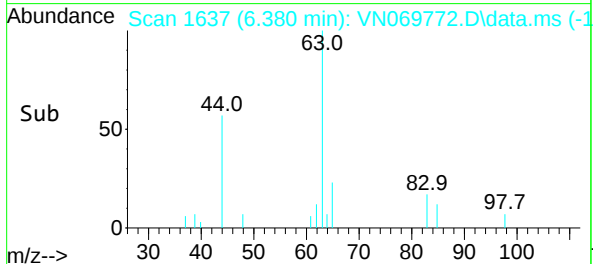
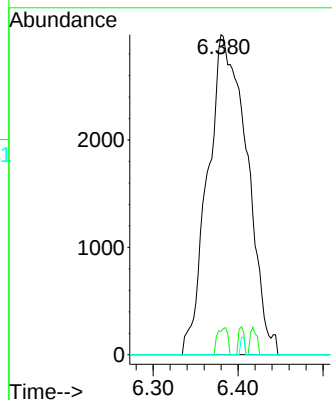
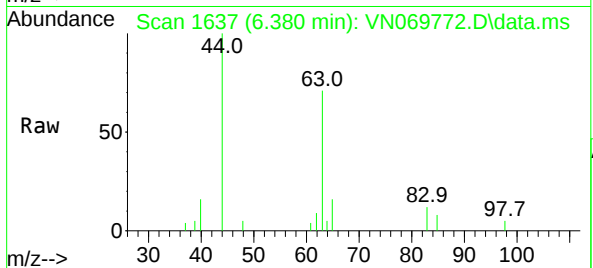




#24
1,1-Dichloroethane
Concen: 0.332 ug/l
RT: 6.380 min Scan# 1
Delta R.T. -0.008 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

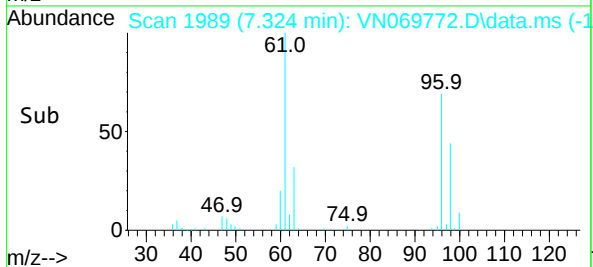
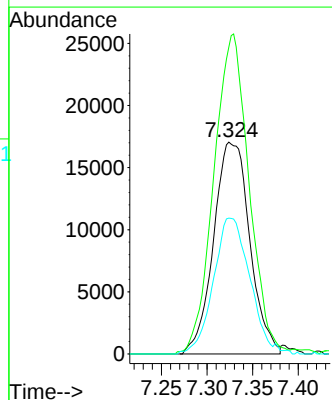
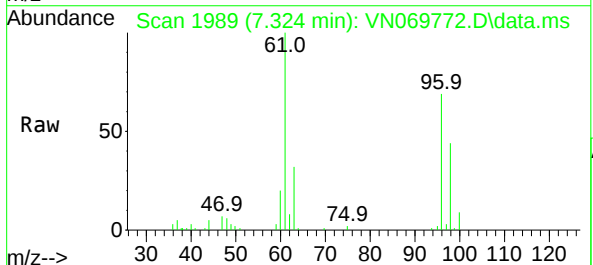
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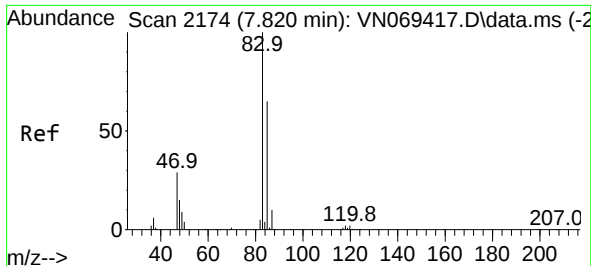
Tgt Ion: 63 Resp: 9537
Ion Ratio Lower Upper
63 100
98 7.3 3.3 9.9
100 0.0 2.1 6.5#



#27
cis-1,2-Dichloroethene
Concen: 2.852 ug/l
RT: 7.324 min Scan# 1989
Delta R.T. -0.003 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 96 Resp: 47058
Ion Ratio Lower Upper
96 100
61 146.7 0.0 275.0
98 64.7 0.0 129.6

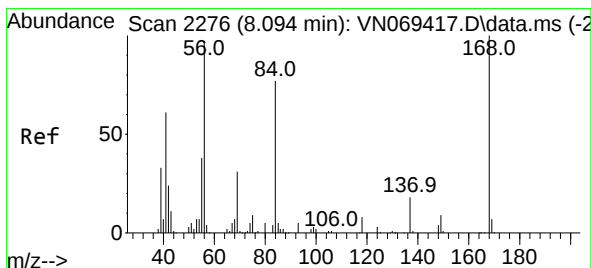
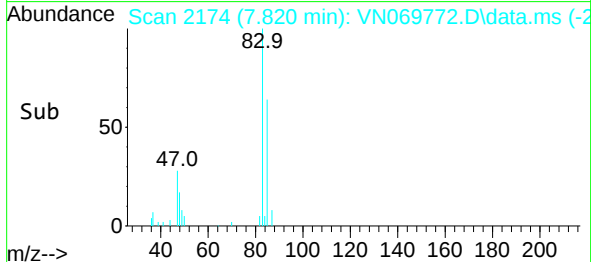
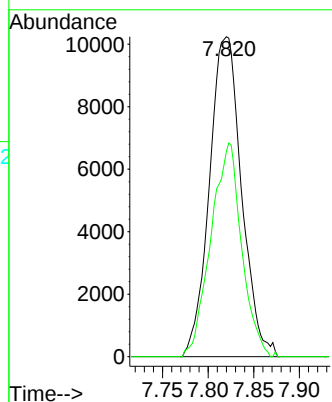
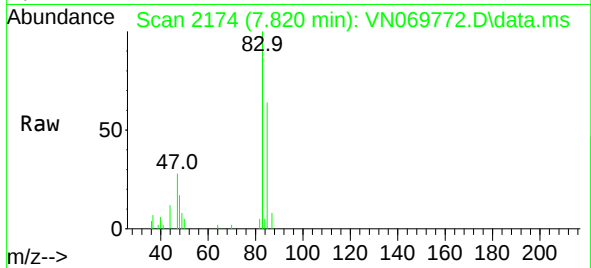




#30
Chloroform
Concen: 0.867 ug/l
RT: 7.820 min Scan# 2174
Delta R.T. -0.000 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

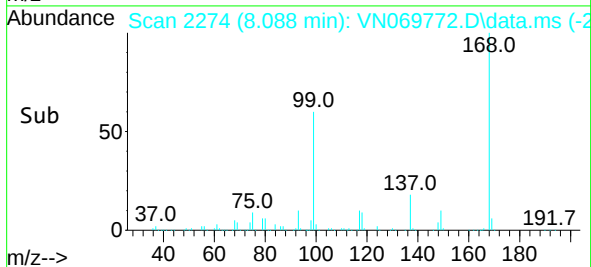
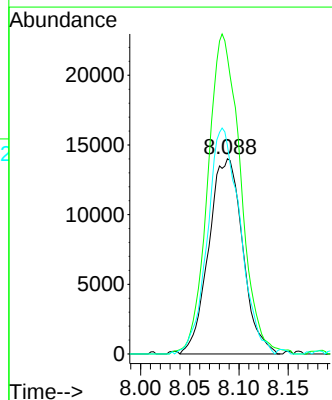
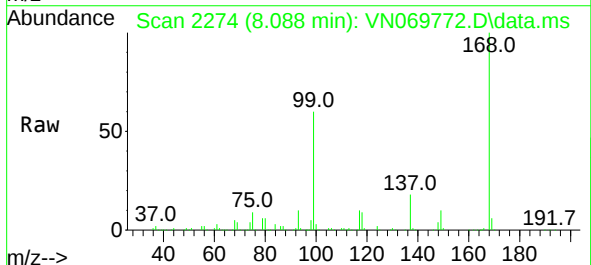
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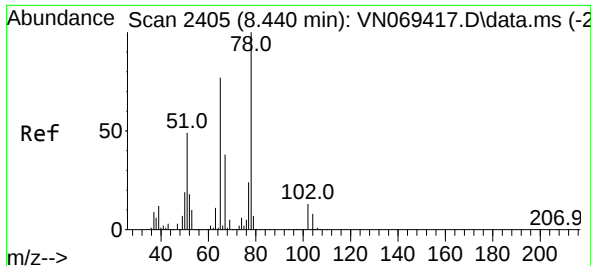
Tgt Ion: 83 Resp: 25124
Ion Ratio Lower Upper
83 100
85 64.2 51.9 77.9



#31
Cyclohexane
Concen: 1.184 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.005 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 56 Resp: 33582
Ion Ratio Lower Upper
56 100
69 150.0 27.1 40.7#
84 104.9 73.4 110.0

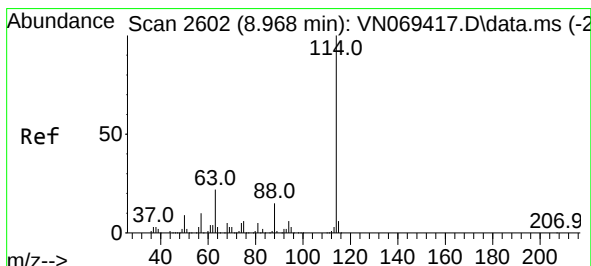
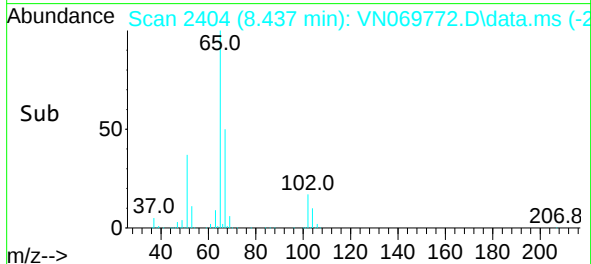
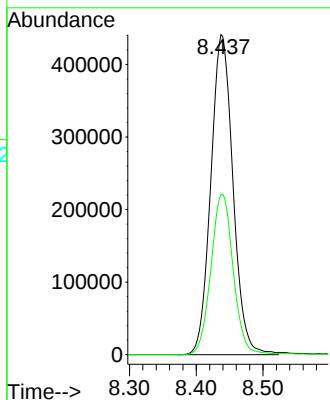
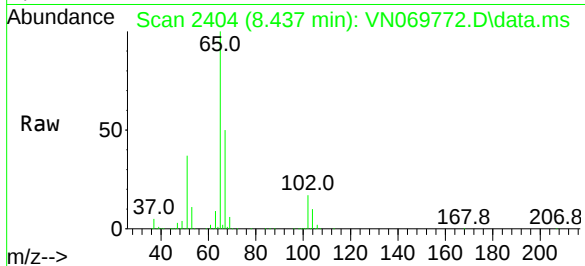




#33
 1,2-Dichloroethane-d4
 Concen: 49.980 ug/l
 RT: 8.437 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN069772.D
 Acq: 4 Dec 2021 18:04

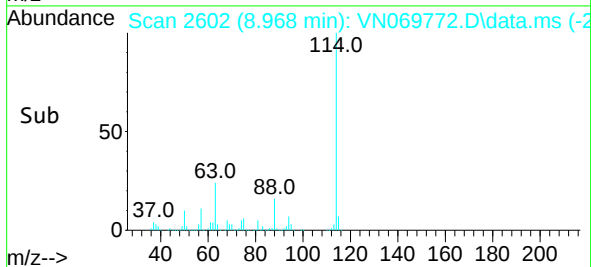
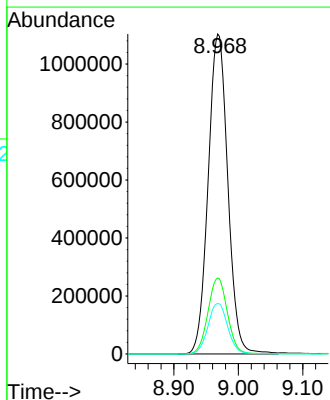
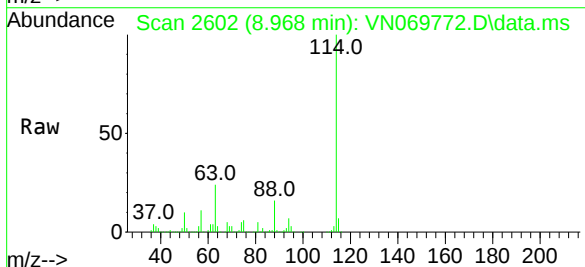
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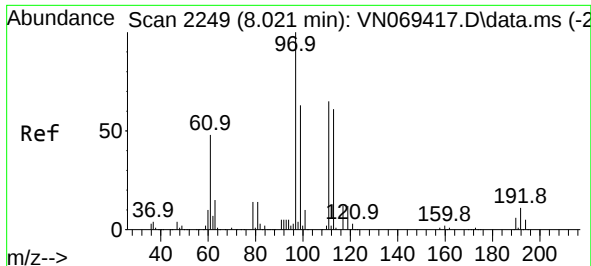
Tgt Ion: 65 Resp: 1018599
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.968 min Scan# 2602
 Delta R.T. -0.000 min
 Lab File: VN069772.D
 Acq: 4 Dec 2021 18:04

Tgt Ion: 114 Resp: 2334759
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 37.8
 88 15.8 0.0 27.4





#35

Dibromofluoromethane

Concen: 47.960 ug/l

RT: 8.024 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN069772.D

Acq: 4 Dec 2021 18:04

Instrument :

MSVOA_N

ClientSampleId :

DUP04-20211130

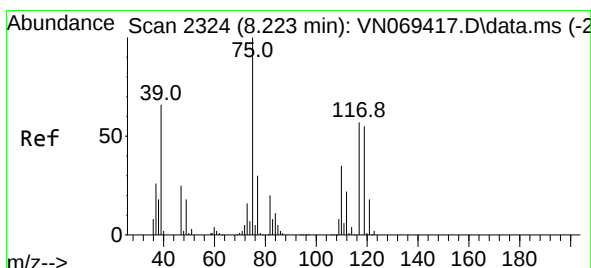
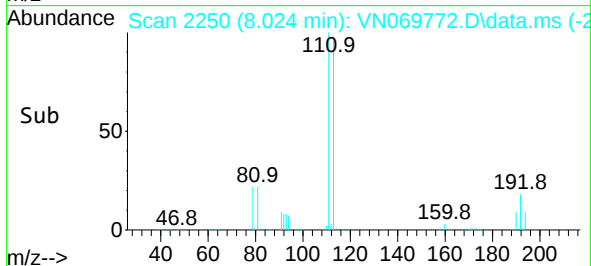
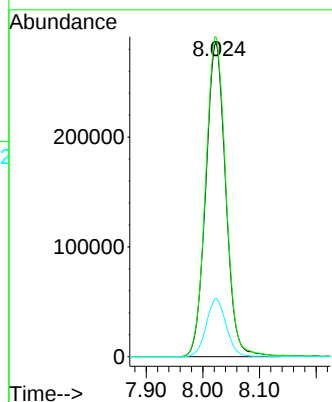
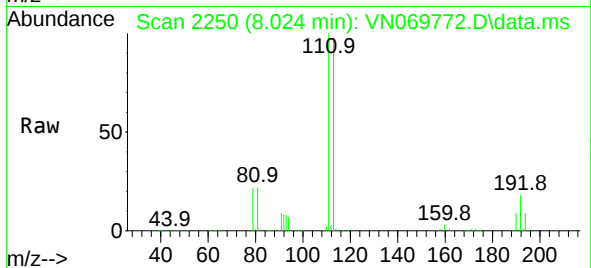
Tgt Ion:113 Resp: 701391

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.2

192 18.5 16.9 25.3



#36

1,1-Dichloropropene

Concen: 5.112 ug/l

RT: 8.085 min Scan# 2273

Delta R.T. -0.137 min

Lab File: VN069772.D

Acq: 4 Dec 2021 18:04

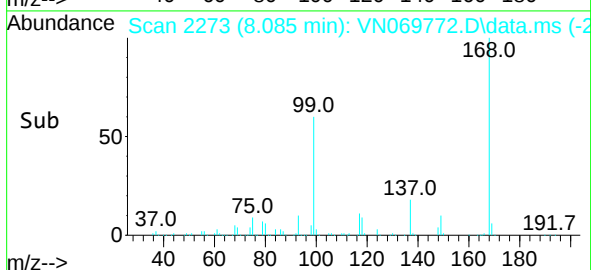
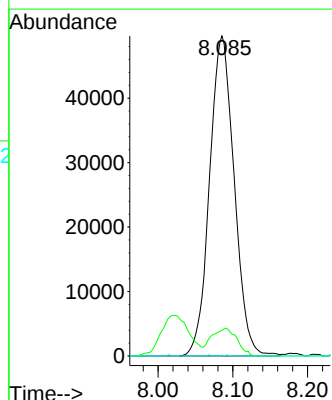
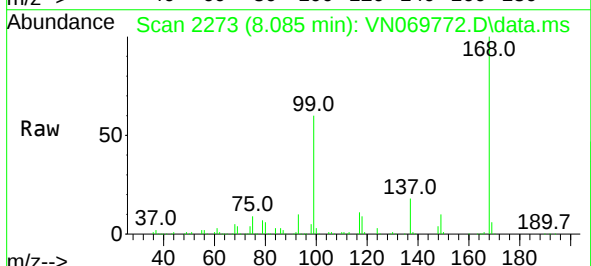
Tgt Ion: 75 Resp: 113622

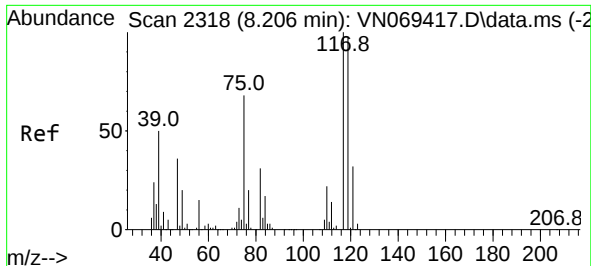
Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.2#

77 0.1 24.4 36.6#

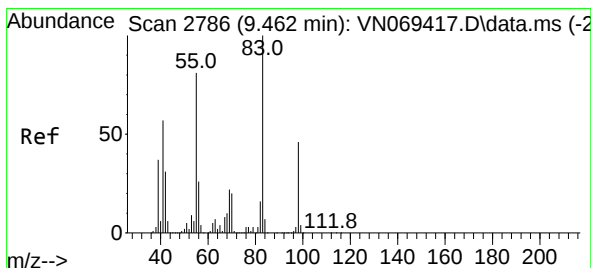
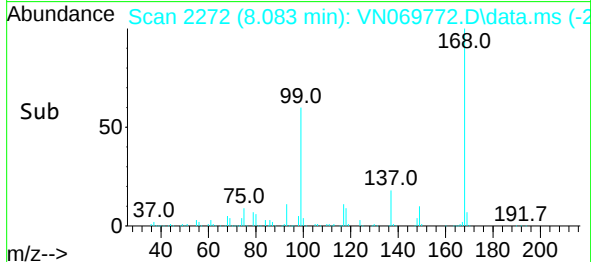
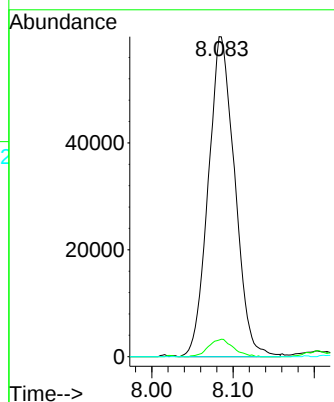
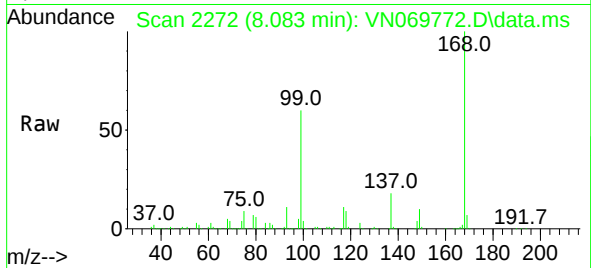




#38
Carbon Tetrachloride
Concen: 6.224 ug/l
RT: 8.083 min Scan# 2117
Delta R.T. -0.123 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

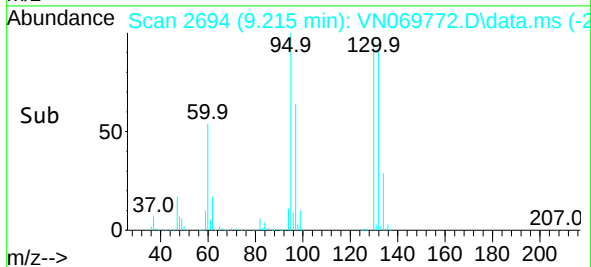
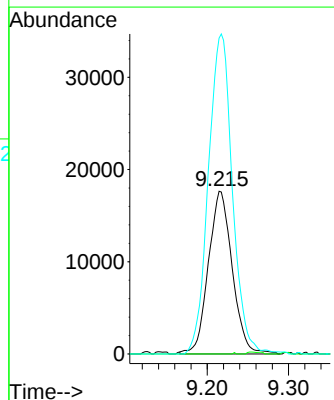
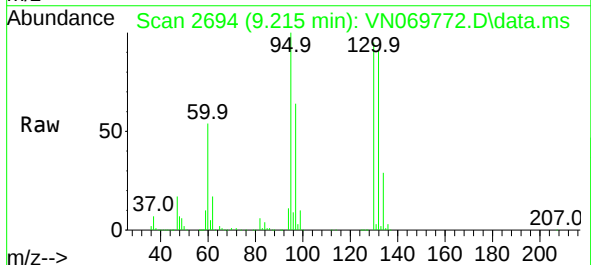
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

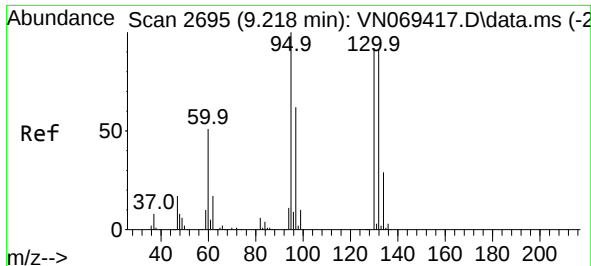
Tgt Ion:117 Resp: 135665
Ion Ratio Lower Upper
117 100
119 5.2 76.1 114.1#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 1.363 ug/l
RT: 9.215 min Scan# 2694
Delta R.T. -0.247 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 83 Resp: 36027
Ion Ratio Lower Upper
83 100
55 0.0 58.1 87.1#
98 194.1 38.4 57.6#

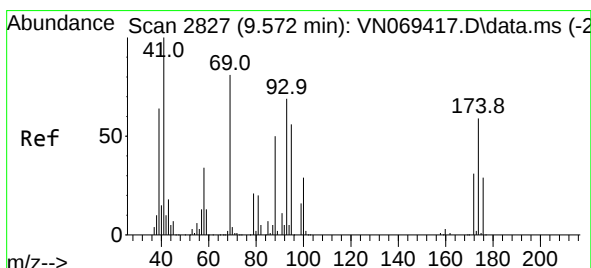
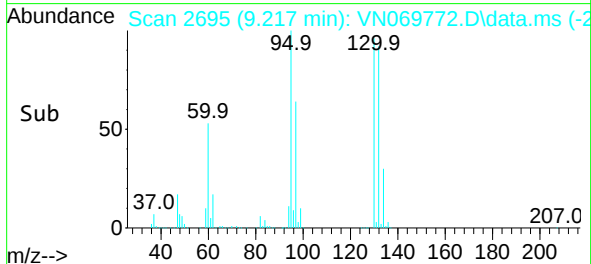
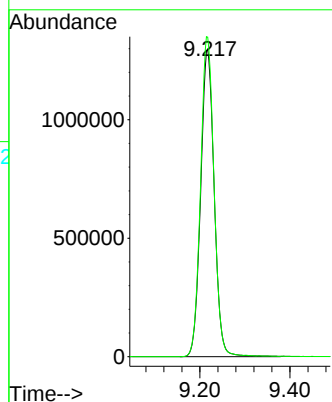
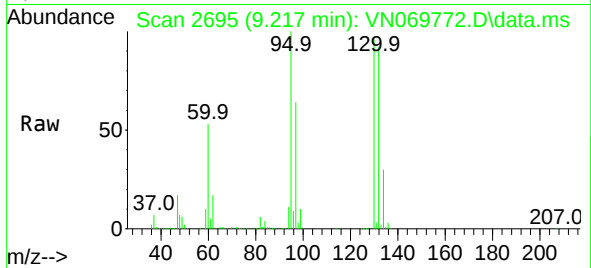




#44
Trichloroethene
Concen: 166.295 ug/l
RT: 9.217 min Scan# 207
Delta R.T. 0.000 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

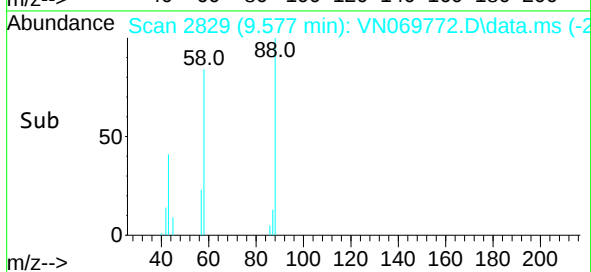
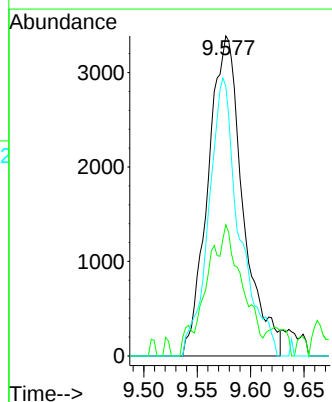
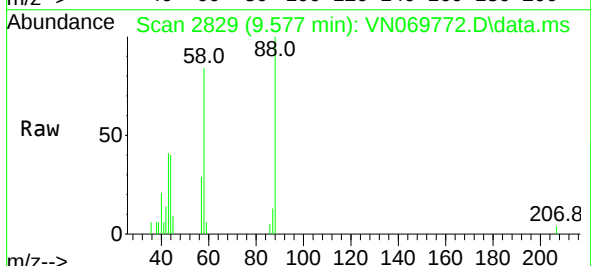
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

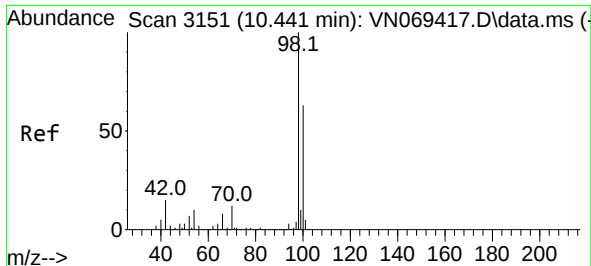
Tgt Ion:130 Resp: 2696483
Ion Ratio Lower Upper
130 100
95 103.9 0.0 191.2



#49
1,4-Dioxane
Concen: 18.879 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.005 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 88 Resp: 7739
Ion Ratio Lower Upper
88 100
43 21.6 23.4 35.2#
58 76.2 50.6 75.8#

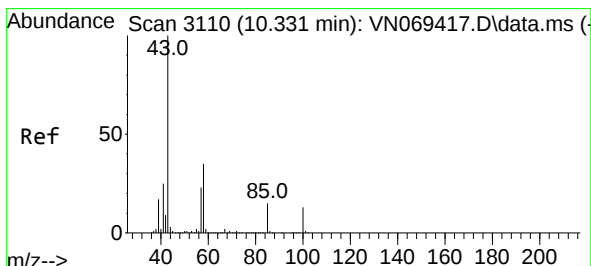
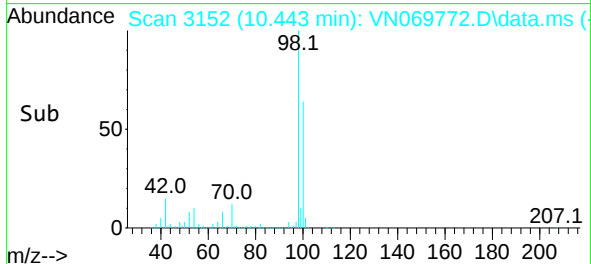
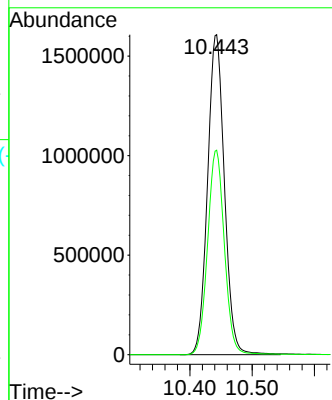
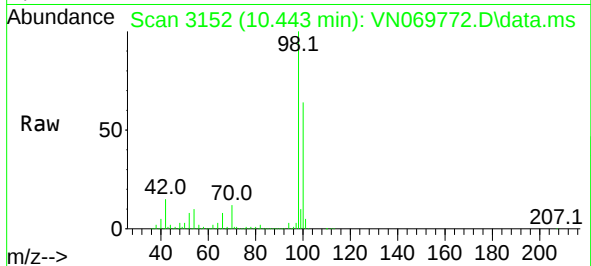




#50
Toluene-d8
Concen: 51.434 ug/l
RT: 10.443 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

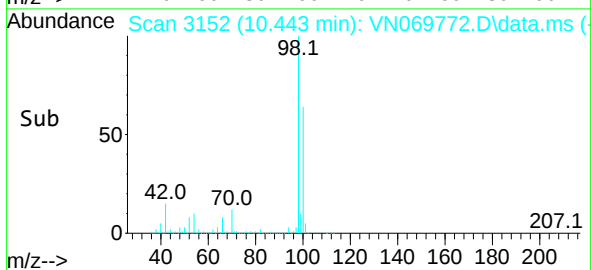
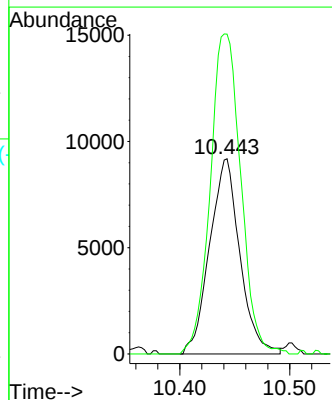
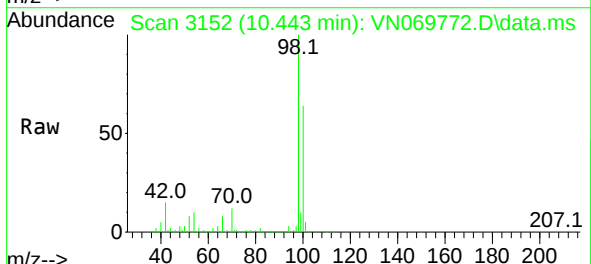
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

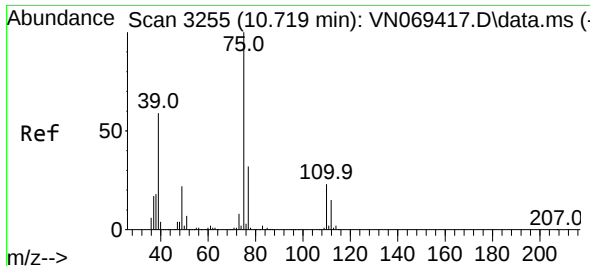
Tgt Ion: 98 Resp: 3020316
Ion Ratio Lower Upper
98 100
100 63.7 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.553 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.110 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 43 Resp: 17549
Ion Ratio Lower Upper
43 100
58 165.9 30.4 45.6#

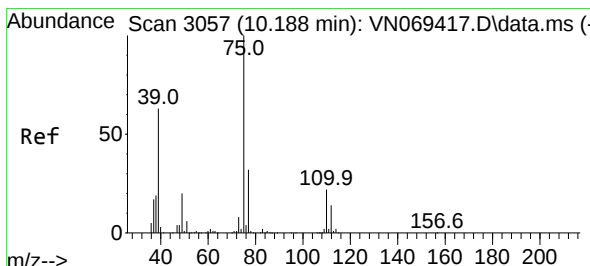
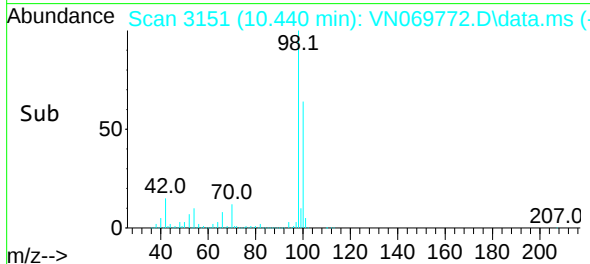
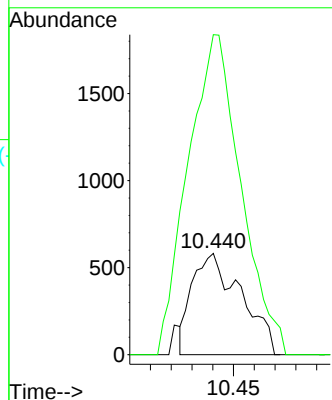
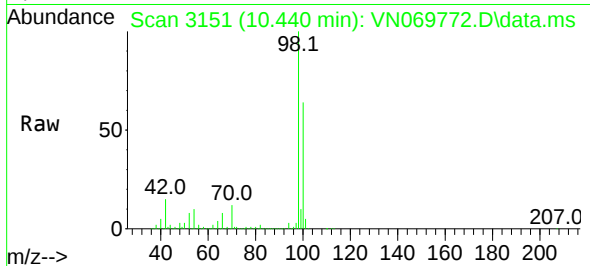




#53
t-1,3-Dichloropropene
Concen: 2.827 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.279 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

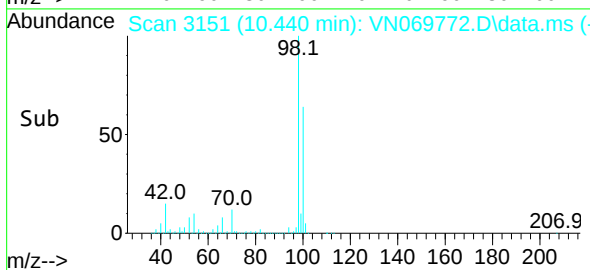
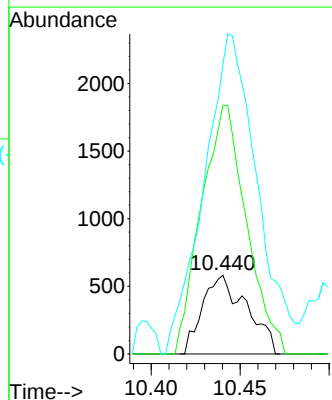
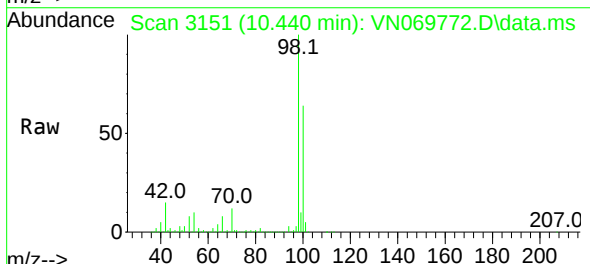
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

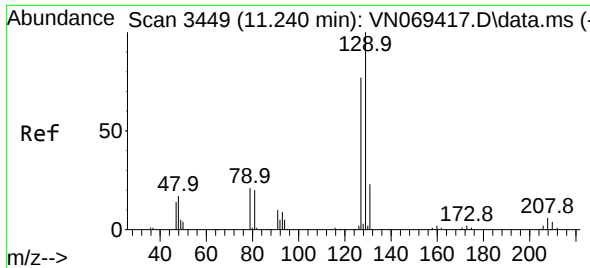
Tgt Ion: 75 Resp: 952
Ion Ratio Lower Upper
75 100
77 289.2 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.032 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. 0.249 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 75 Resp: 1006
Ion Ratio Lower Upper
75 100
77 289.2 26.4 39.6#
39 299.3 42.5 63.7#

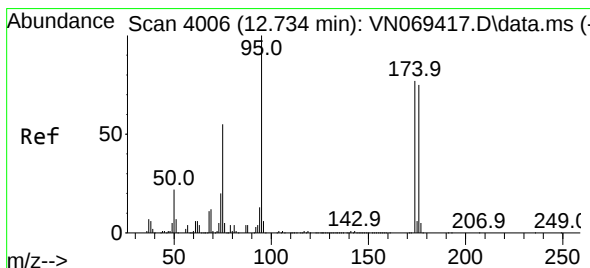
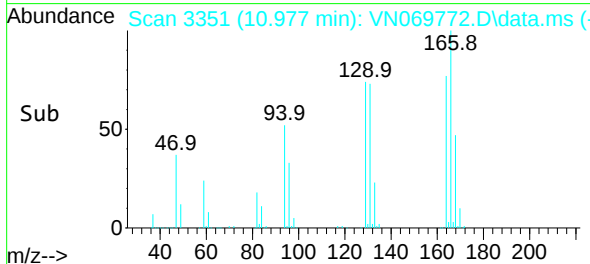
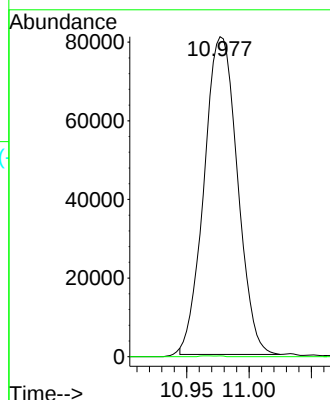
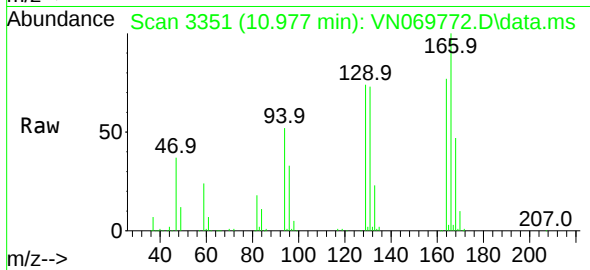




#60
Dibromochloromethane
Concen: 10.357 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

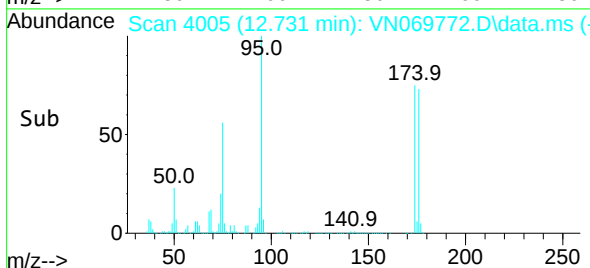
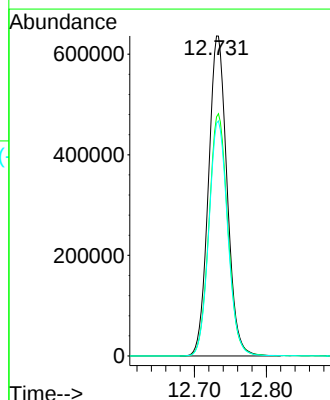
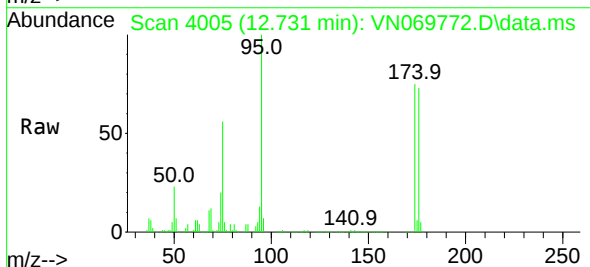
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

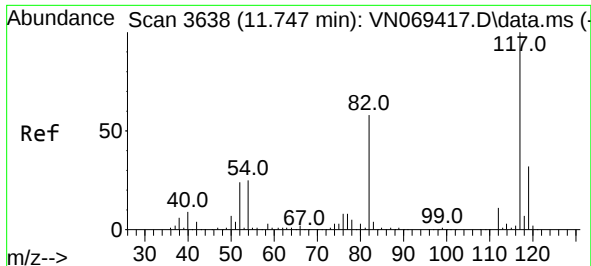
Tgt Ion:129 Resp: 150237
Ion Ratio Lower Upper
129 100
127 0.2 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 53.819 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 95 Resp: 1144927
Ion Ratio Lower Upper
95 100
174 76.7 0.0 187.2
176 74.2 0.0 181.4

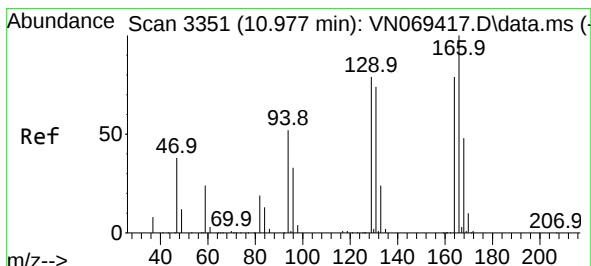
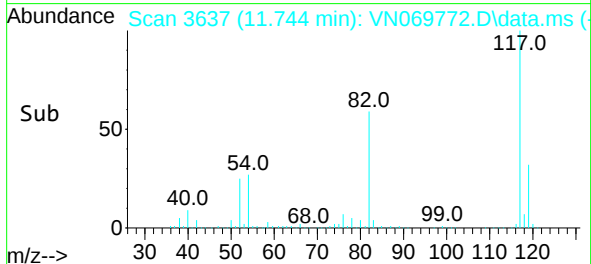
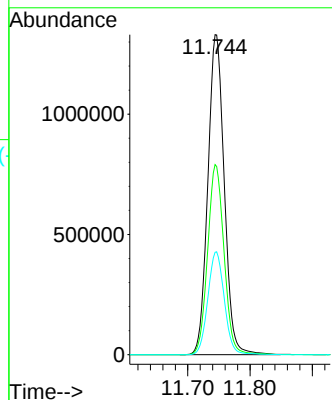
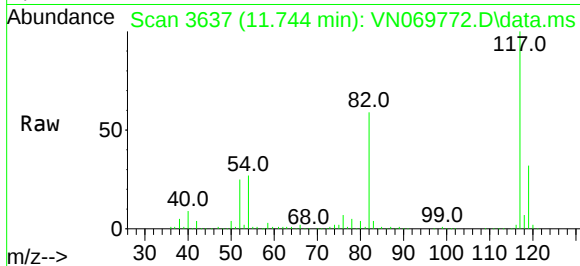




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

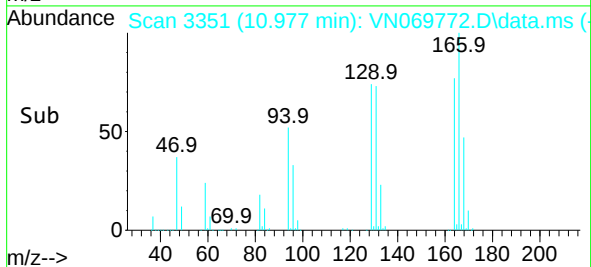
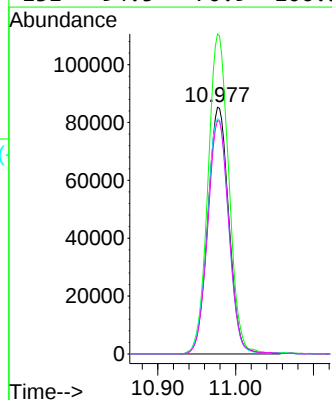
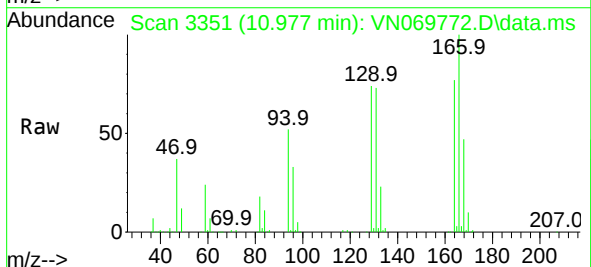
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

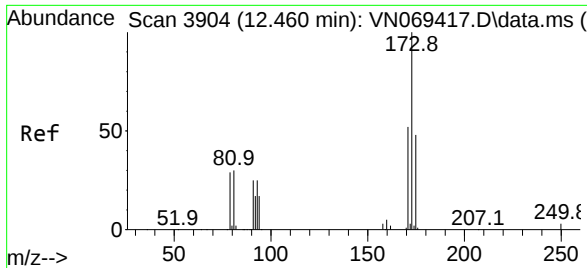
Tgt Ion:117 Resp: 2436684
Ion Ratio Lower Upper
117 100
82 59.4 42.4 63.6
119 32.0 25.4 38.2



#64
Tetrachloroethene
Concen: 9.696 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.002 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion:164 Resp: 160206
Ion Ratio Lower Upper
164 100
166 129.7 101.9 152.9
129 95.5 72.0 108.0
131 94.5 70.9 106.3

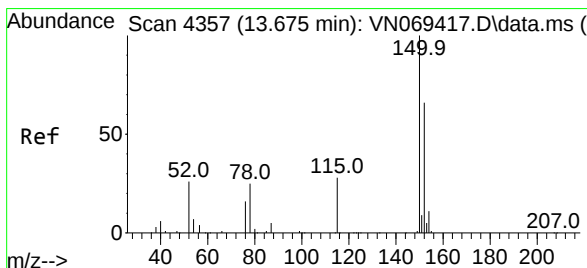
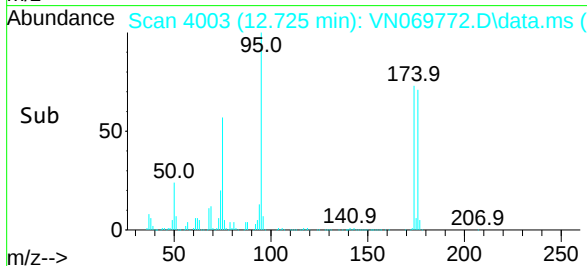
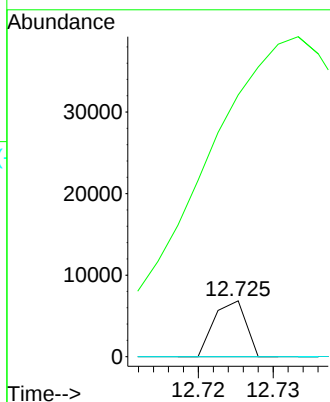
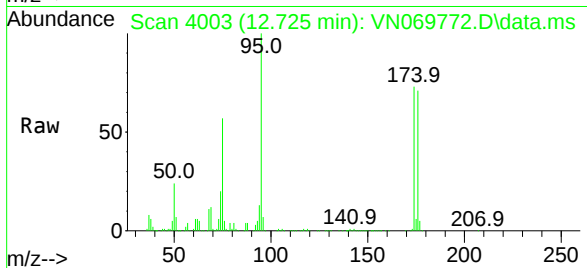




#71
Bromoform
Concen: 2.859 ug/l
RT: 12.725 min Scan# 4003
Delta R.T. 0.265 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

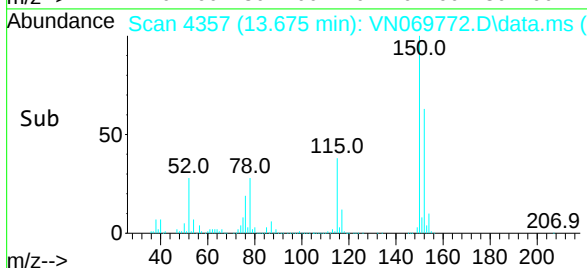
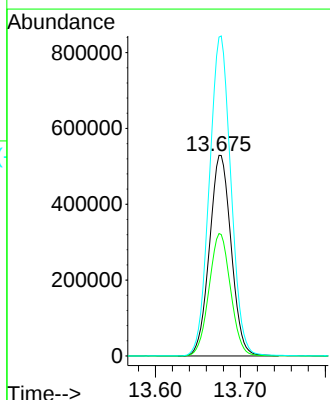
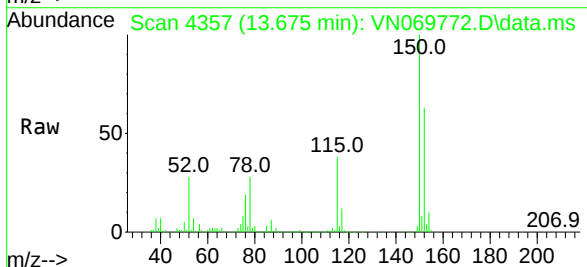
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

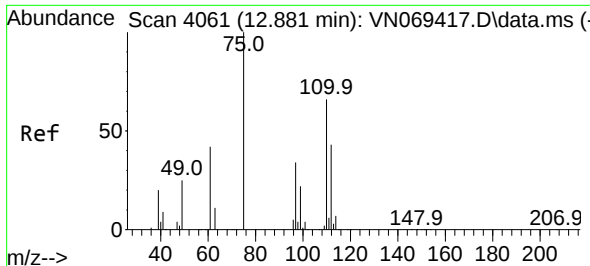
Tgt Ion:173 Resp: 2013
Ion Ratio Lower Upper
173 100
175 3185.7 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion:152 Resp: 940561
Ion Ratio Lower Upper
152 100
115 60.6 27.5 82.5
150 158.1 0.0 344.4

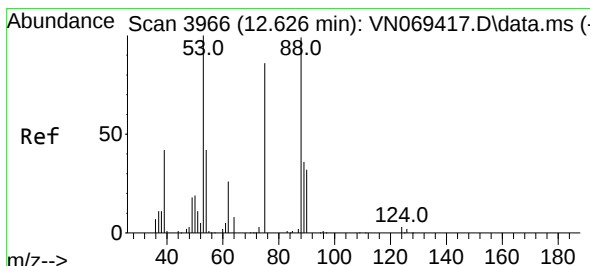
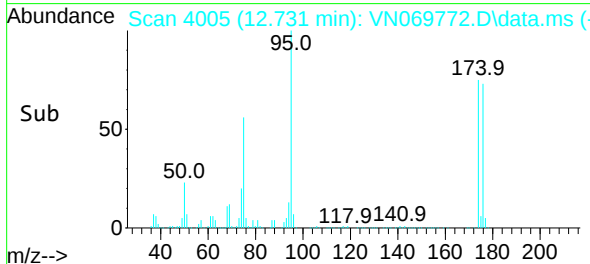
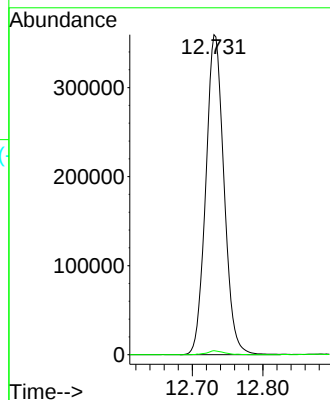
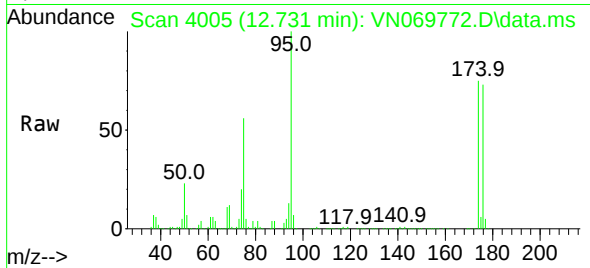




#76
1,2,3-Trichloropropane
Concen: 23.876 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

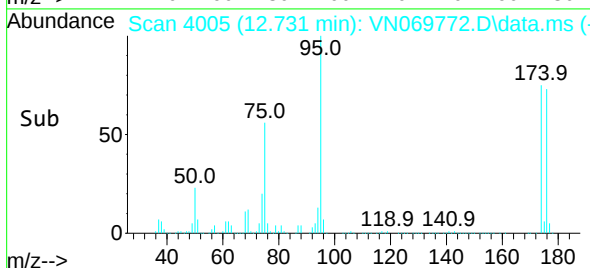
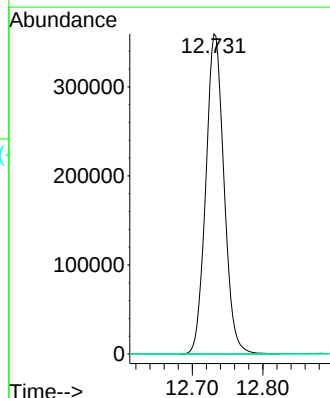
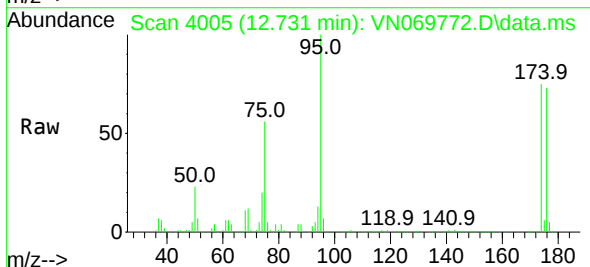
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20211130

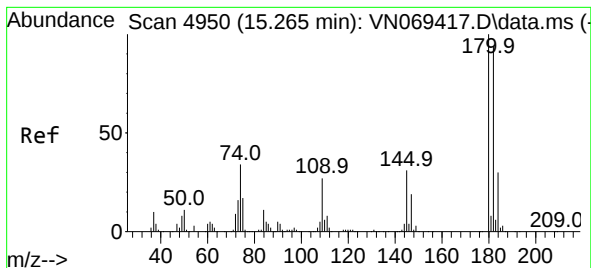
Tgt Ion: 75 Resp: 644007
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 75.857 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069772.D
Acq: 4 Dec 2021 18:04

Tgt Ion: 75 Resp: 644007
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: 2.907 ug/l

RT: 15.268 min Scan# 4950

Delta R.T. 0.003 min

Lab File: VN069772.D

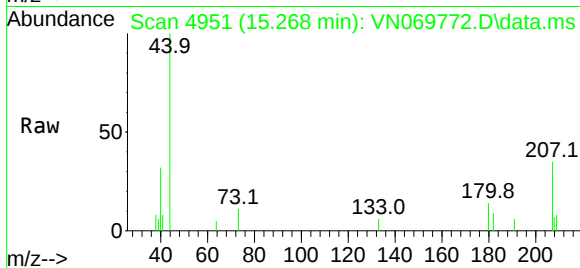
Acq: 4 Dec 2021 18:04

Instrument :

MSVOA_N

ClientSampleId :

DUP04-20211130



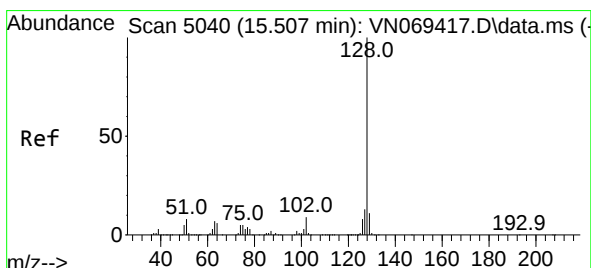
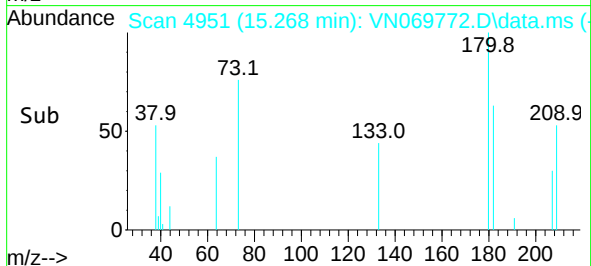
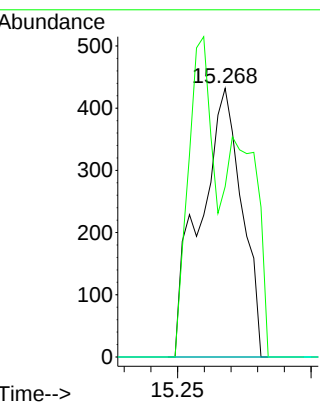
Tgt Ion:180 Resp: 469

Ion Ratio Lower Upper

180 100

182 54.4 48.3 144.9

145 0.0 14.5 43.5#



#95

Naphthalene

Concen: 4.013 ug/l

RT: 15.515 min Scan# 5043

Delta R.T. 0.008 min

Lab File: VN069772.D

Acq: 4 Dec 2021 18:04

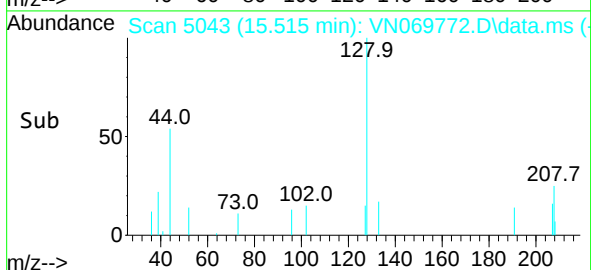
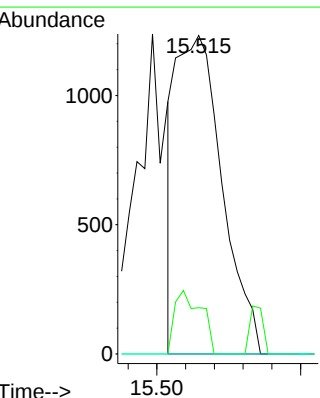
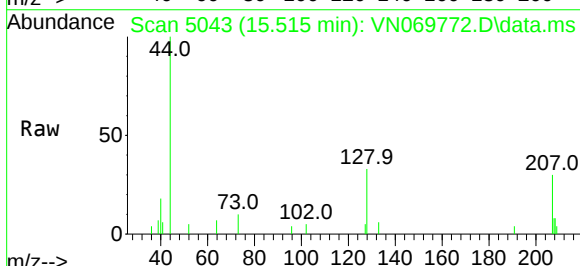
Tgt Ion:128 Resp: 1388

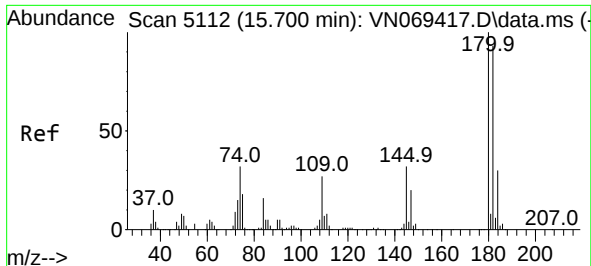
Ion Ratio Lower Upper

128 100

127 11.3 10.5 15.7

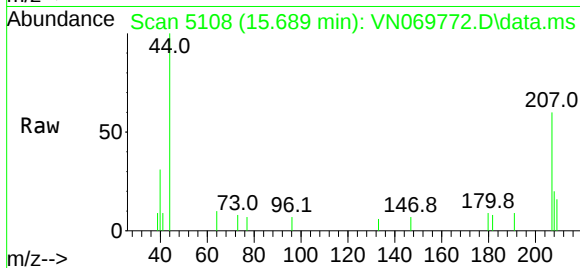
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.447 ug/l
 RT: 15.689 min Scan# 51
 Delta R.T. -0.013 min
 Lab File: VN069772.D
 Acq: 4 Dec 2021 18:04

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP04-20211130



Tgt Ion:180 Resp: 182
 Ion Ratio Lower Upper
 180 100
 182 222.5 47.4 142.2#
 145 44.0 15.0 45.1

