

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091322\
 Data File : VN074435.D
 Acq On : 13 Sep 2022 16:02
 Operator : JC\MD
 Sample : N4588-05 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1667

Quant Time: Sep 13 17:18:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 10 06:10:29 2022
 Response via : Initial Calibration

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

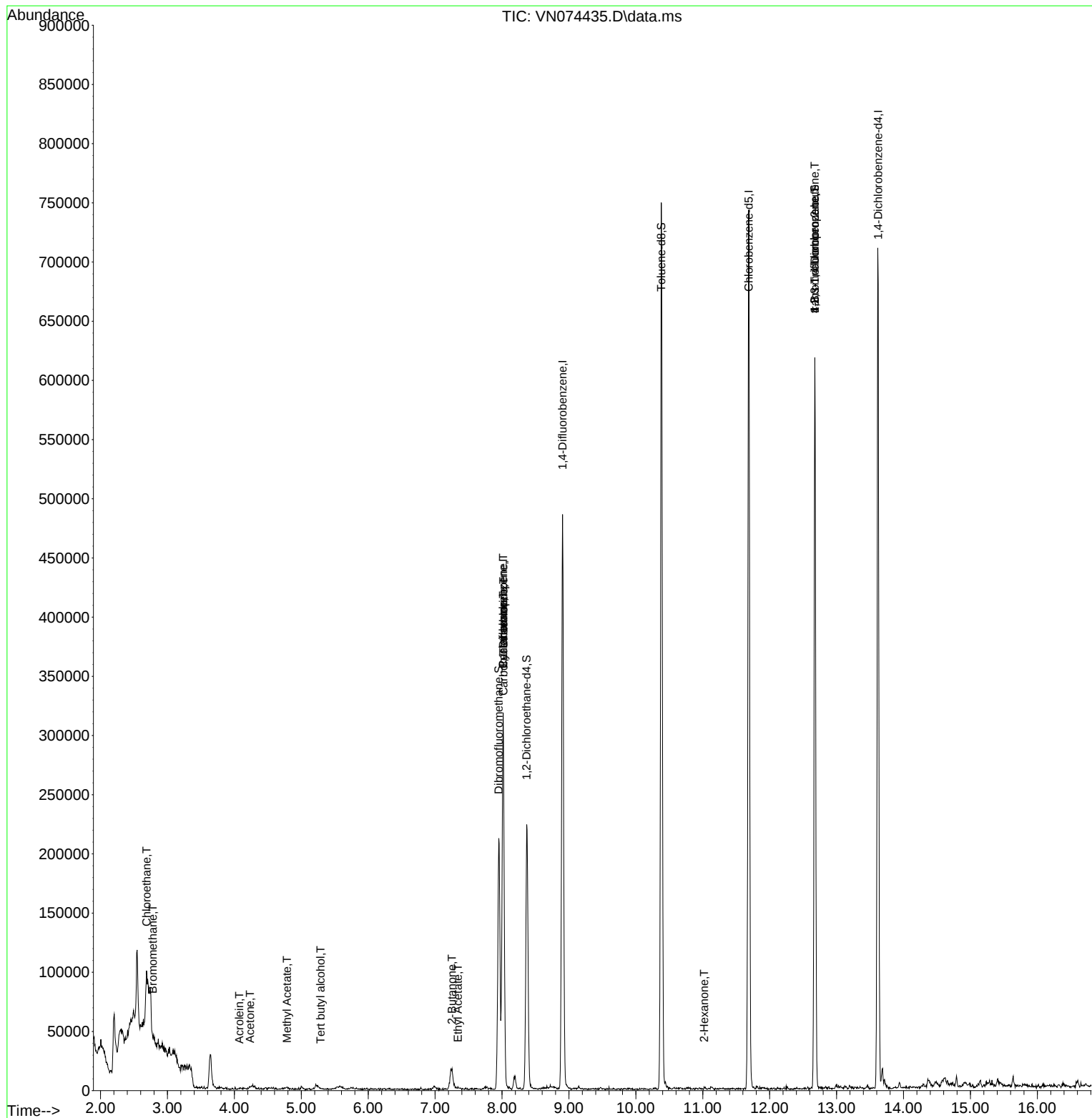
Internal Standards						
1) Pentafluorobenzene	8.016	168	205713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	378147	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	369886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.622	152	163471	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	171875	48.291	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.580%		
35) Dibromofluoromethane	7.951	113	138000	54.057	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.120%		
50) Toluene-d8	10.381	98	466824	46.931	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.860%		
62) 4-Bromofluorobenzene	12.675	95	182957	50.660	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.320%		
Target Compounds						Qvalue
3) Chloromethane	2.269	50	867	Below Cal		91
5) Bromomethane	2.781	94	673	0.216 ug/l #		12
6) Chloroethane	2.687	64	28575	6.610 ug/l #		60
11) Tert butyl alcohol	5.287	59	305	0.328 ug/l #		71
13) Acrolein	4.075	56	182	0.294 ug/l #		15
16) Acetone	4.234	43	1958	1.019 ug/l #		88
18) Methyl Acetate	4.787	43	2609	0.461 ug/l		92
20) Methylene Chloride	4.999	84	728	Below Cal #		72
25) 2-Butanone	7.251	43	4958	1.537 ug/l		95
28) Bromochloromethane	7.528	49	83	Below Cal #		20
31) Cyclohexane	8.016	56	6516	1.151 ug/l #		51
36) 1,1-Dichloropropene	8.016	75	20815	4.949 ug/l #		52
37) Ethyl Acetate	7.340	43	1435	0.235 ug/l #		90
38) Carbon Tetrachloride	8.022	117	23828	5.488 ug/l #		13
59) 2-Hexanone	11.022	43	1247	0.248 ug/l #		45
74) N-amyl acetate	12.369	43	88	Below Cal #		45
76) 1,2,3-Trichloropropane	12.675	75	115701	27.075 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.675	75	115701	60.349 ug/l #		9
92) 1,2-Dibromo-3-Chloropr...	14.580	75	54	Below Cal #		8

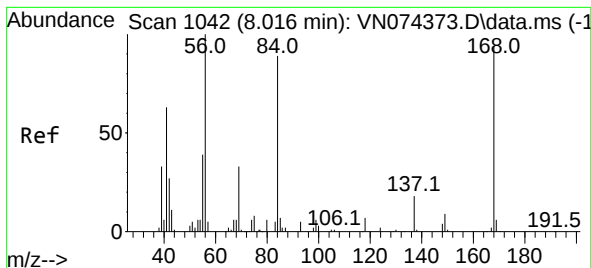
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.016 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN074435.D

Acq: 13 Sep 2022 16:02

Instrument :

MSVOA_N

ClientSampleId :

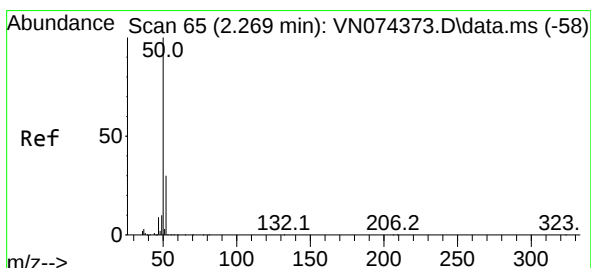
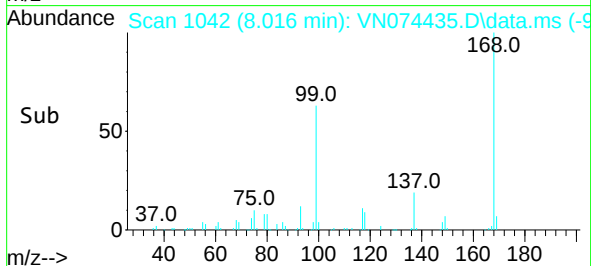
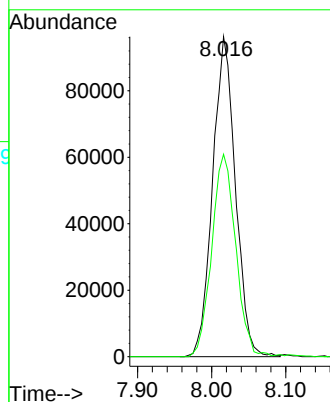
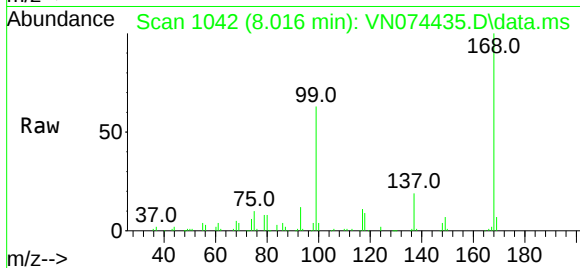
AUD-1667

Tgt Ion:168 Resp: 205713

Ion Ratio Lower Upper

168 100

99 63.2 52.8 79.2



#3

Chloromethane

Concen: Below Cal

RT: 2.269 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN074435.D

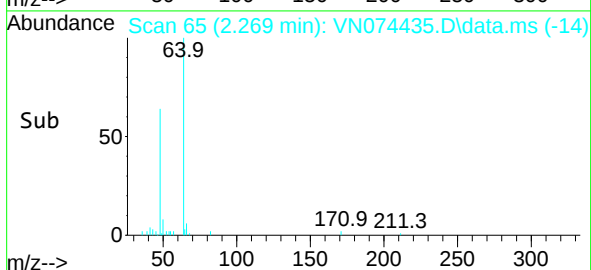
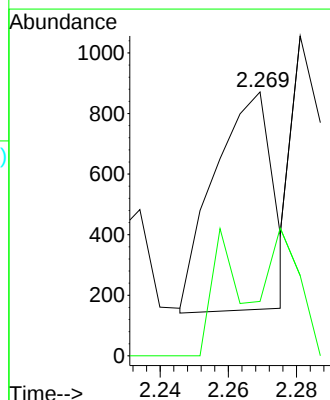
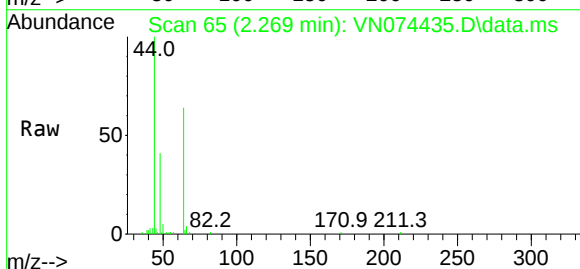
Acq: 13 Sep 2022 16:02

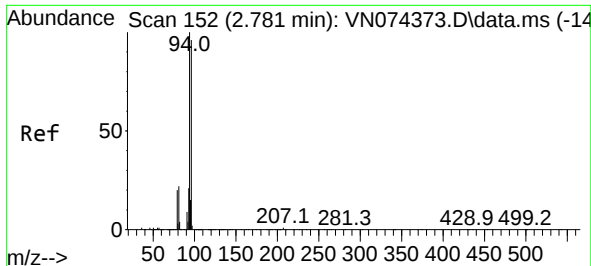
Tgt Ion: 50 Resp: 867

Ion Ratio Lower Upper

50 100

52 25.2 24.1 36.1

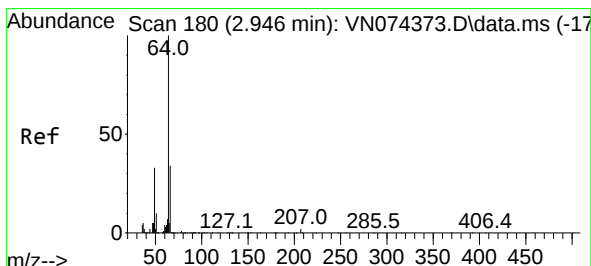
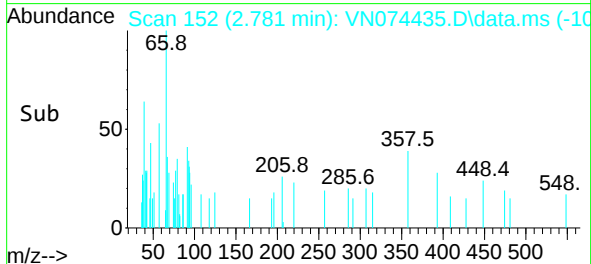
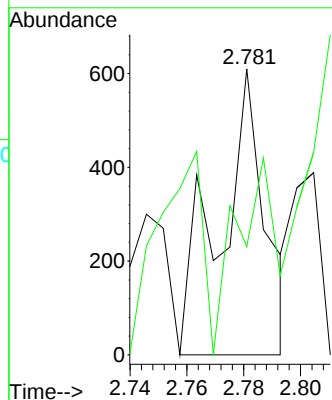
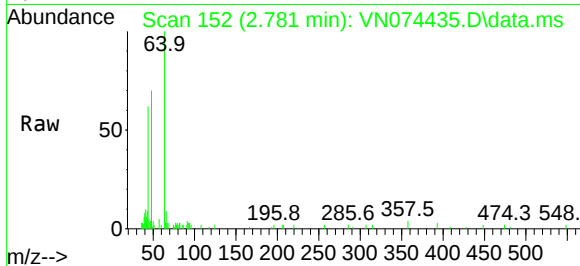




#5
Bromomethane
Concen: 0.216 ug/l
RT: 2.781 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

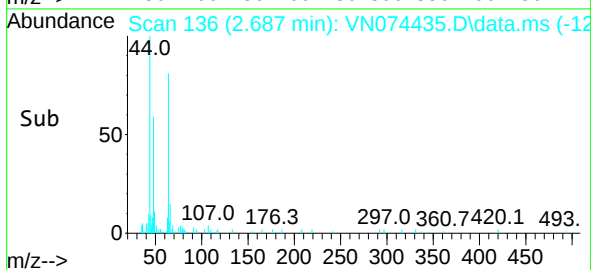
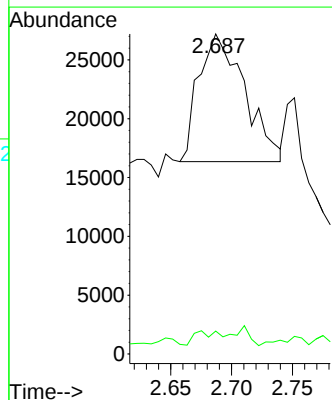
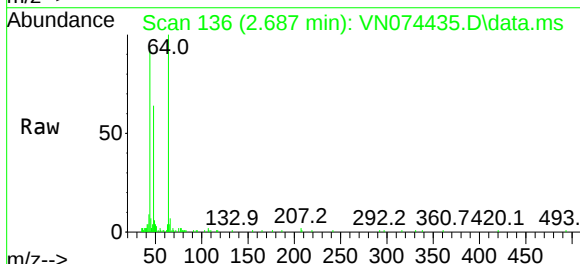
Instrument :
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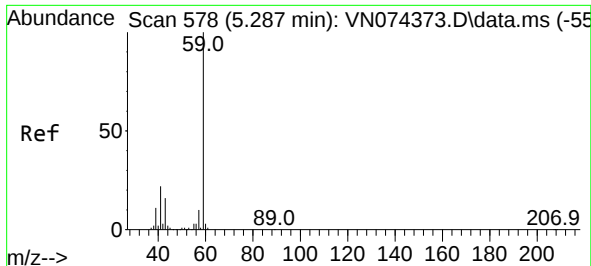
Tgt Ion: 94 Resp: 673
Ion Ratio Lower Upper
94 100
96 10.2 76.7 115.1#



#6
Chloroethane
Concen: 6.610 ug/l
RT: 2.687 min Scan# 136
Delta R.T. -0.259 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

Tgt Ion: 64 Resp: 28575
Ion Ratio Lower Upper
64 100
66 10.4 26.5 39.7#

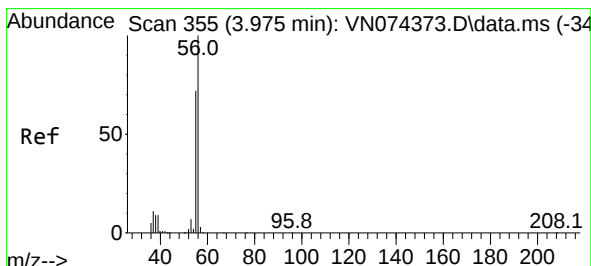
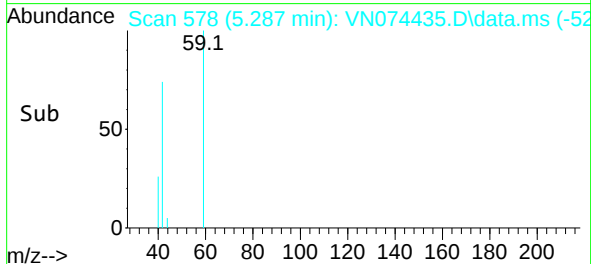
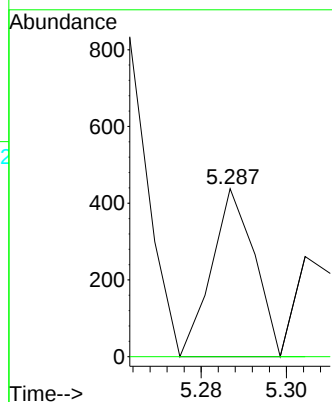
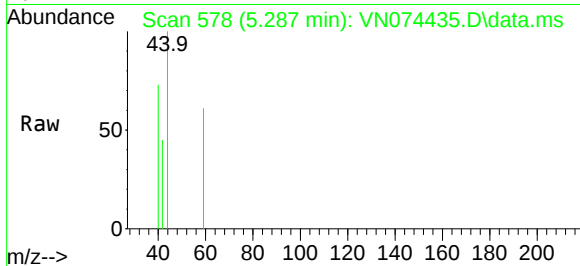




#11
Tert butyl alcohol
Concen: 0.328 ug/l
RT: 5.287 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

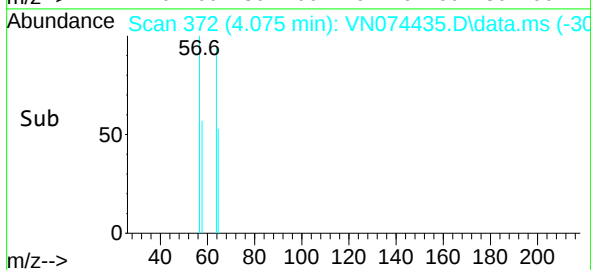
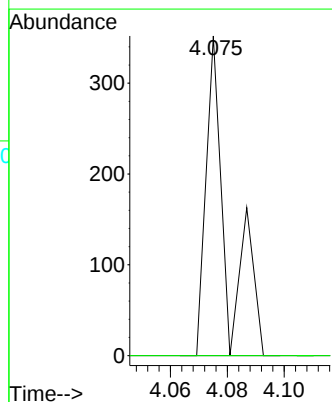
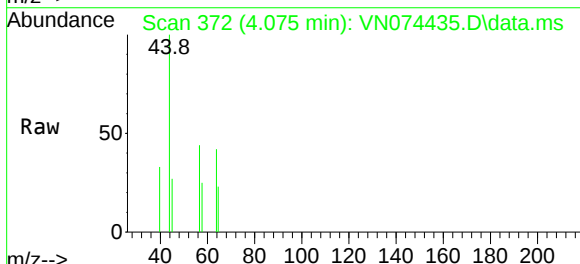
Instrument :
MSVOA_N
ClientSampleId :
AUD-1667

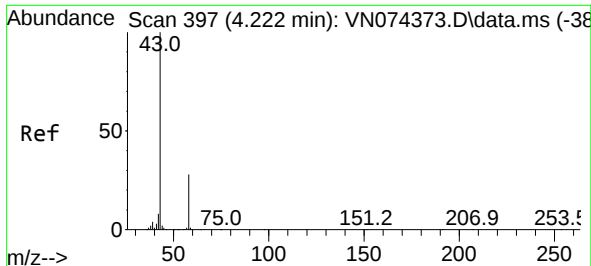
Tgt Ion: 59 Resp: 305
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#13
Acrolein
Concen: 0.294 ug/l
RT: 4.075 min Scan# 372
Delta R.T. 0.100 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

Tgt Ion: 56 Resp: 182
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

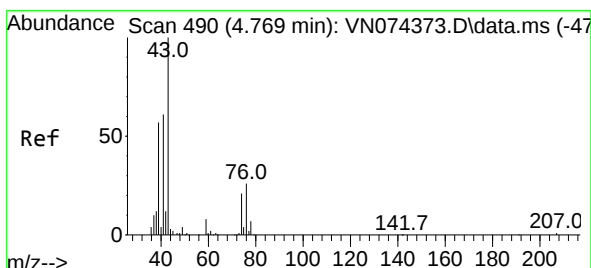
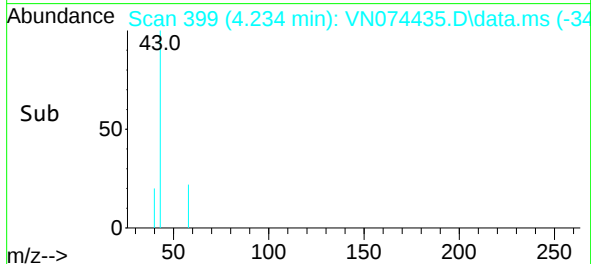
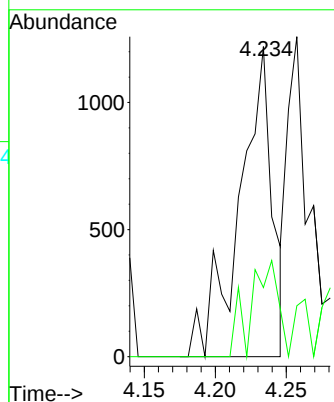
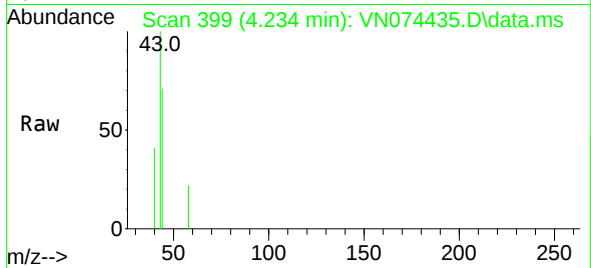




#16
Acetone
Concen: 1.019 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

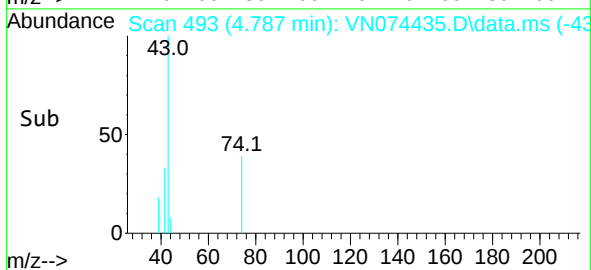
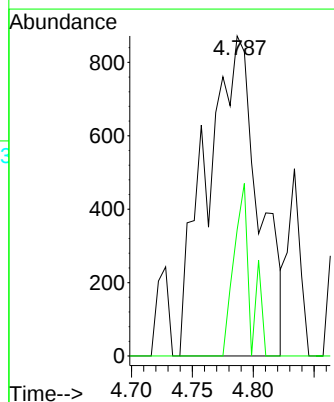
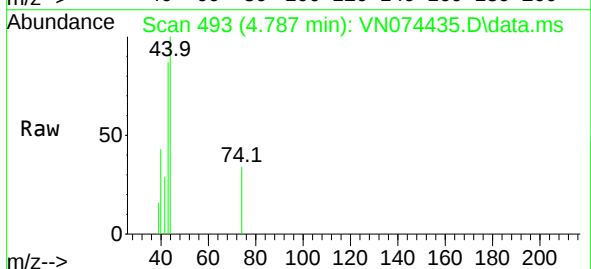
Instrument :
MSVOA_N
ClientSampleId :
AUD-1667

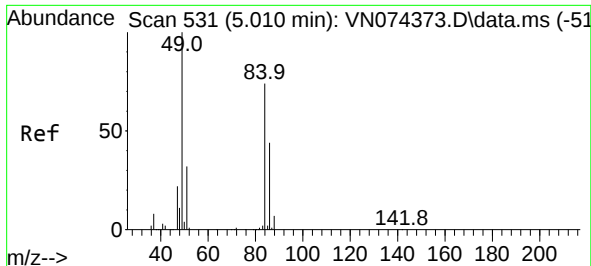
Tgt Ion: 43 Resp: 1958
Ion Ratio Lower Upper
43 100
58 22.3 22.7 34.1#



#18
Methyl Acetate
Concen: 0.461 ug/l
RT: 4.787 min Scan# 493
Delta R.T. 0.018 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

Tgt Ion: 43 Resp: 2609
Ion Ratio Lower Upper
43 100
74 17.1 16.7 25.1

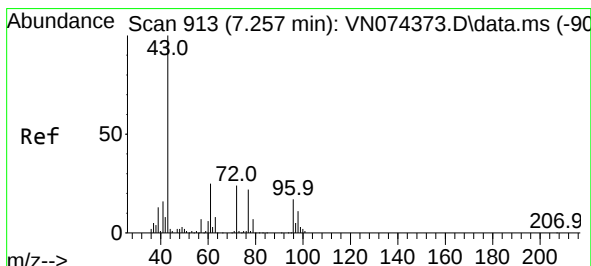
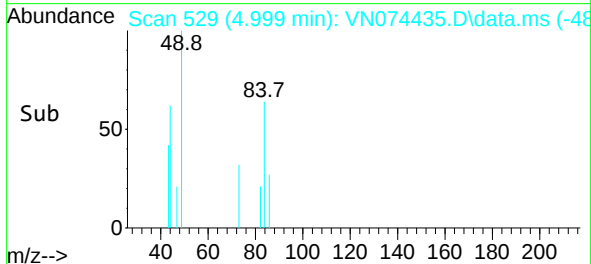
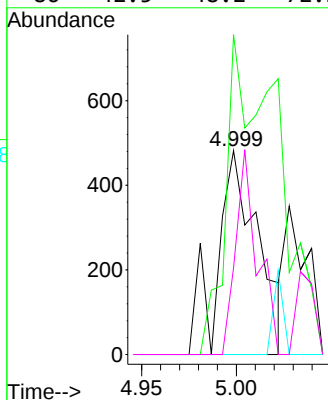
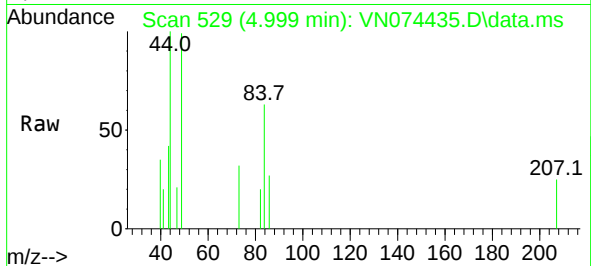




#20
Methylene Chloride
Concen: Below Cal
RT: 4.999 min Scan# 51
Delta R.T. -0.011 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

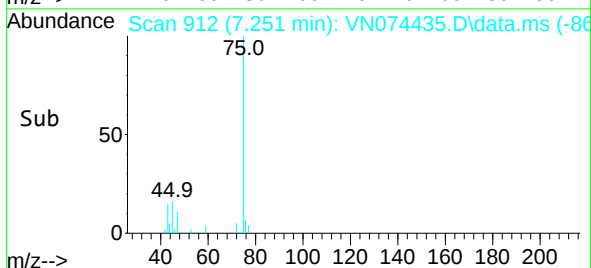
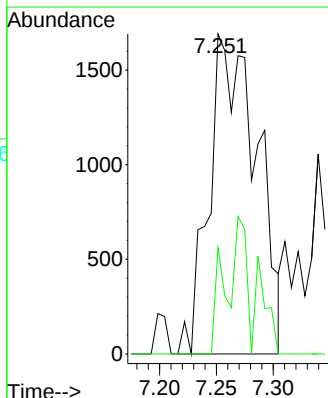
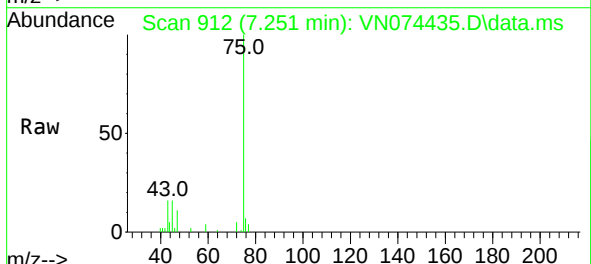
Instrument :
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ClientSampleId :
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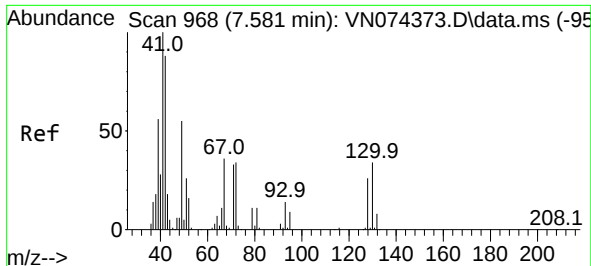
Tgt Ion: 84 Resp: 728
Ion Ratio Lower Upper
84 100
49 156.8 108.2 162.4
51 0.0 34.3 51.5#
86 42.5 48.2 72.2#



#25
2-Butanone
Concen: 1.537 ug/l
RT: 7.251 min Scan# 912
Delta R.T. -0.006 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

Tgt Ion: 43 Resp: 4958
Ion Ratio Lower Upper
43 100
72 25.8 18.9 28.3

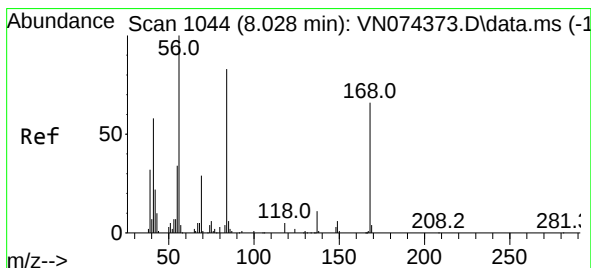
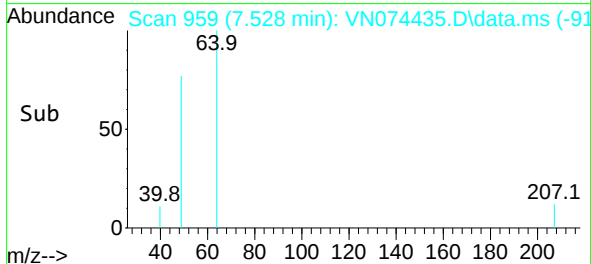
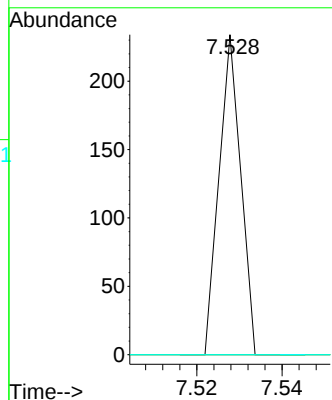
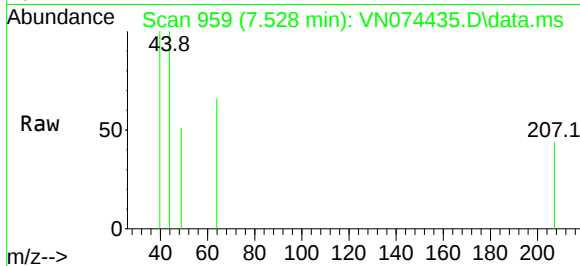




#28
Bromochloromethane
Concen: Below Cal
RT: 7.528 min Scan# 91
Delta R.T. -0.053 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

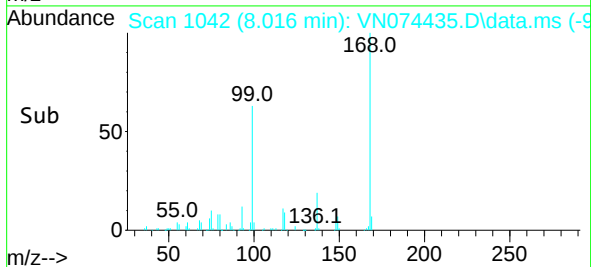
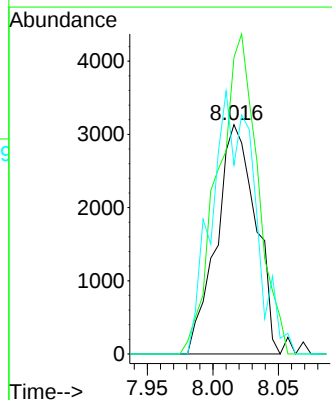
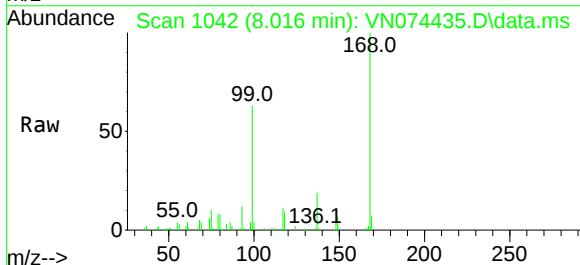
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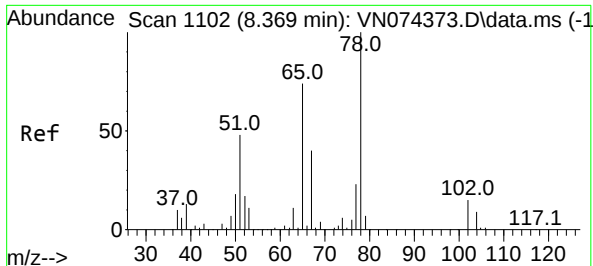
Tgt Ion: 49 Resp: 83
Ion Ratio Lower Upper
49 100
129 0.0 0.0 2.2
130 0.0 50.0 75.0#



#31
Cyclohexane
Concen: 1.151 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.012 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

Tgt Ion: 56 Resp: 6516
Ion Ratio Lower Upper
56 100
69 129.3 23.0 34.4#
84 82.4 66.3 99.5





#33

1,2-Dichloroethane-d4

Concen: 48.291 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN074435.D

Acq: 13 Sep 2022 16:02

Instrument :

MSVOA_N

ClientSampleId :

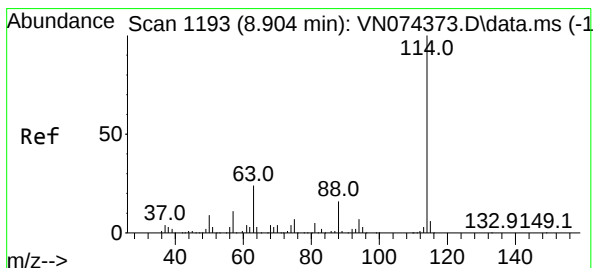
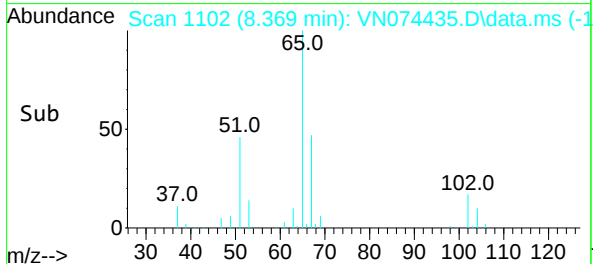
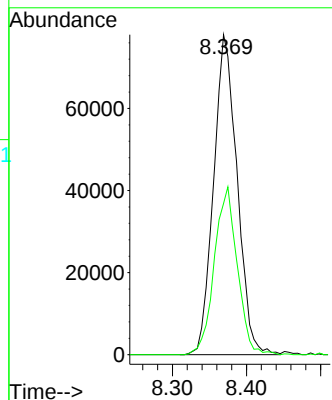
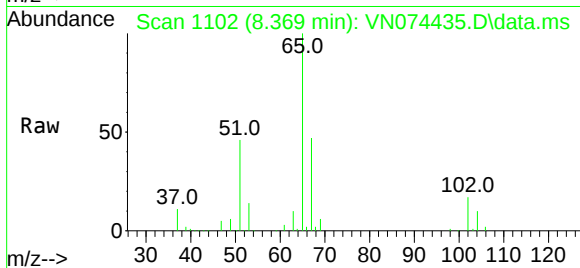
AUD-1667

Tgt Ion: 65 Resp: 171875

Ion Ratio Lower Upper

65 100

67 51.2 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074435.D

Acq: 13 Sep 2022 16:02

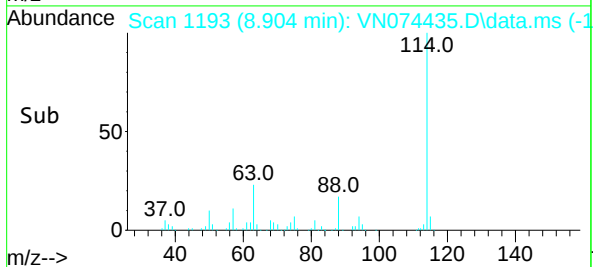
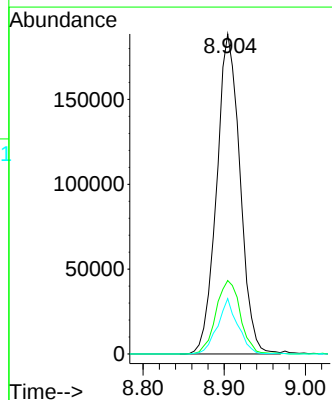
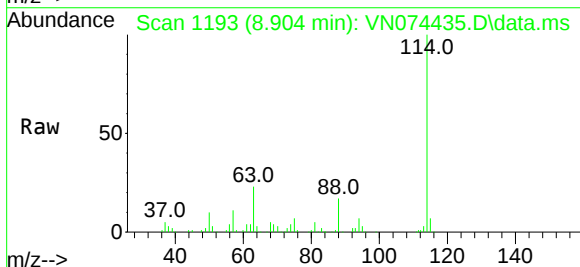
Tgt Ion: 114 Resp: 378147

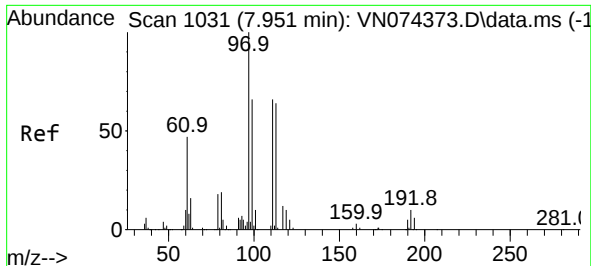
Ion Ratio Lower Upper

114 100

63 22.9 0.0 47.6

88 17.3 0.0 31.4

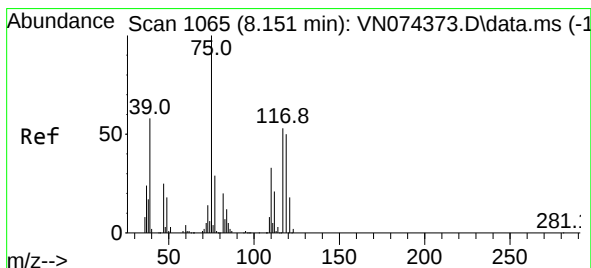
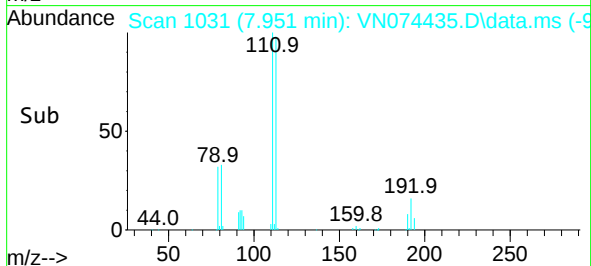
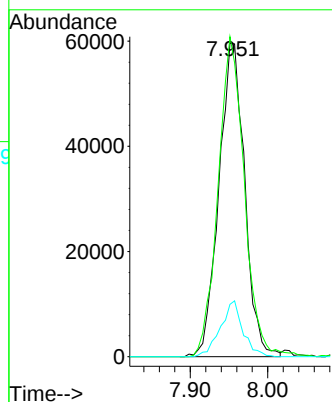
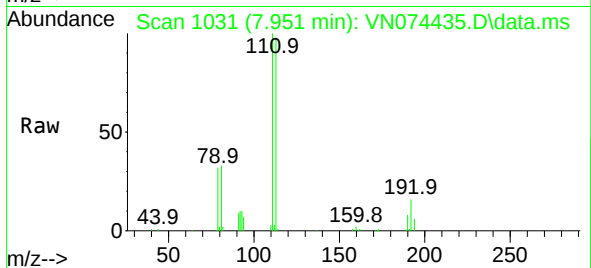




#35
Dibromofluoromethane
Concen: 54.057 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

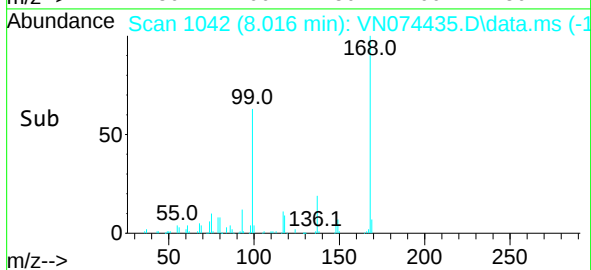
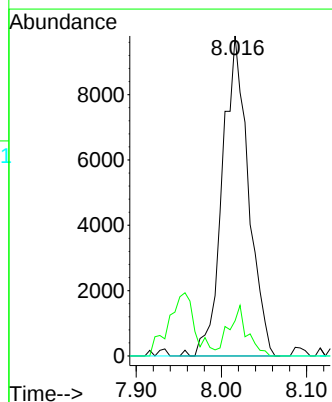
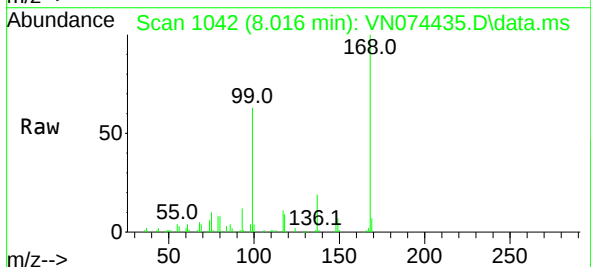
Instrument :
MSVOA_N
ClientSampleId :
AUD-1667

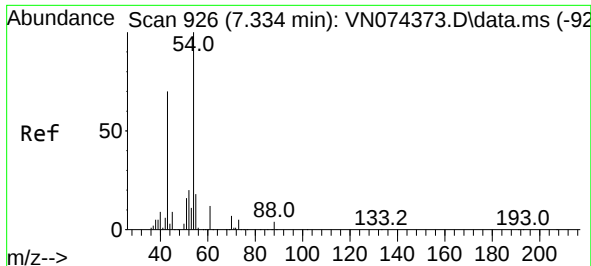
Tgt Ion:113 Resp: 138000
Ion Ratio Lower Upper
113 100
111 103.7 83.0 124.4
192 15.6 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.949 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.135 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

Tgt Ion: 75 Resp: 20815
Ion Ratio Lower Upper
75 100
110 11.1 16.4 49.1#
77 0.0 25.4 38.2#

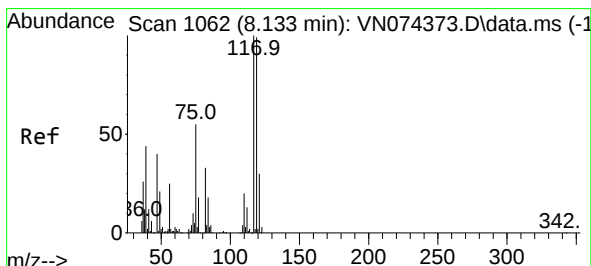
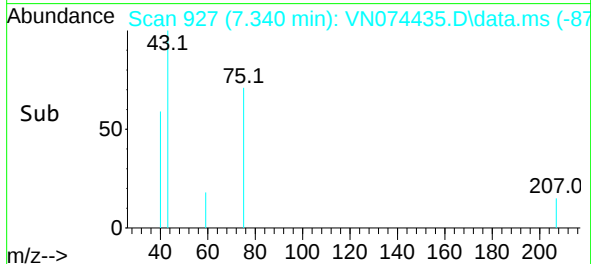
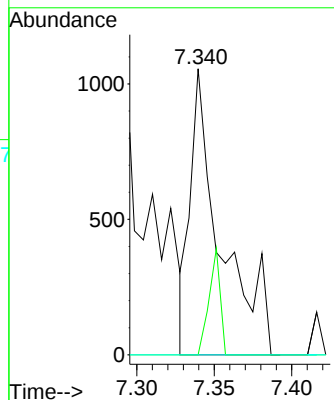
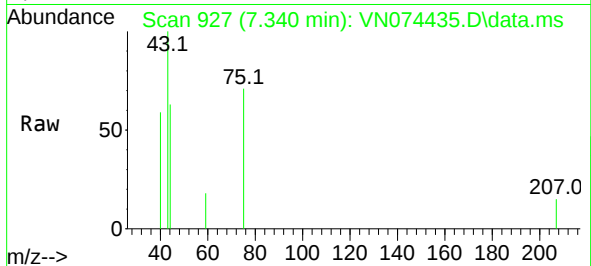




#37
Ethyl Acetate
Concen: 0.235 ug/l
RT: 7.340 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

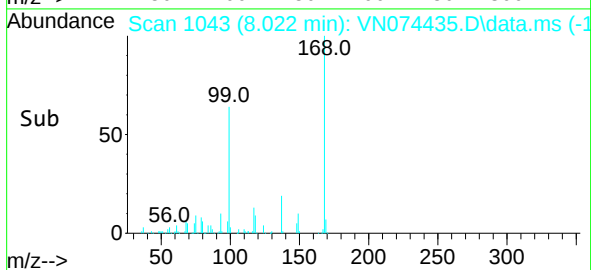
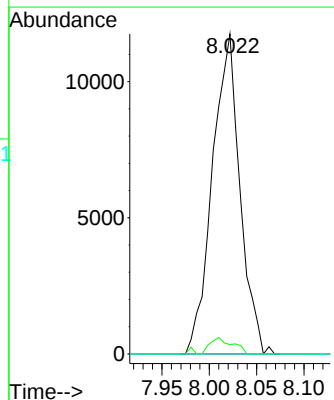
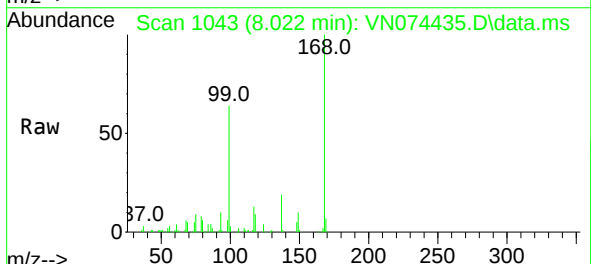
Instrument :
MSVOA_N
ClientSampleId :
AUD-1667

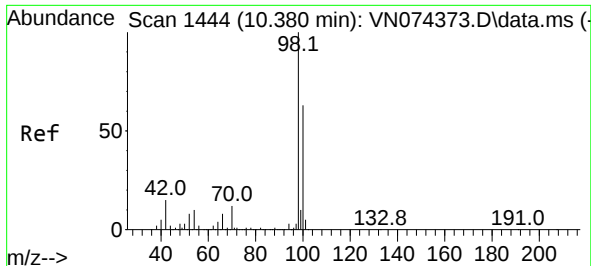
Tgt Ion: 43 Resp: 1435
Ion Ratio Lower Upper
43 100
61 13.7 11.1 16.7
70 0.0 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 5.488 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.112 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

Tgt Ion: 117 Resp: 23828
Ion Ratio Lower Upper
117 100
119 3.0 78.8 118.2#
121 0.0 24.1 36.1#

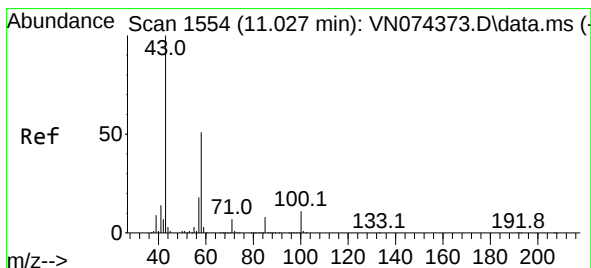
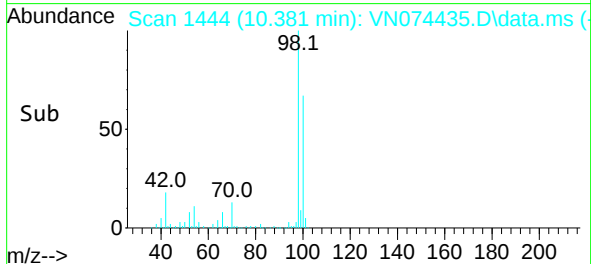
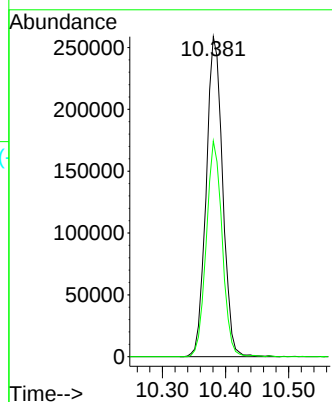
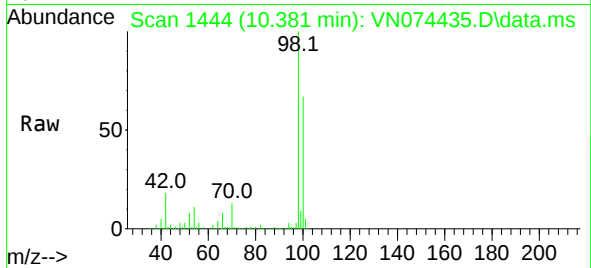




#50
Toluene-d8
Concen: 46.931 ug/l
RT: 10.381 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

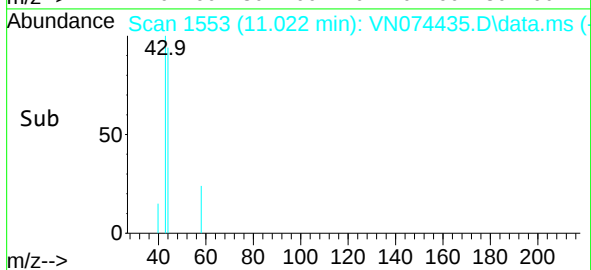
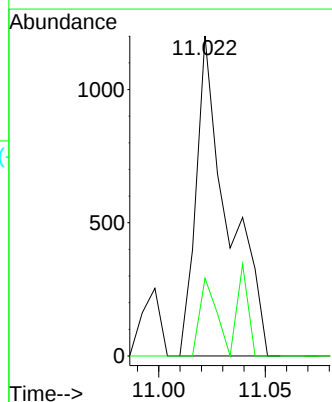
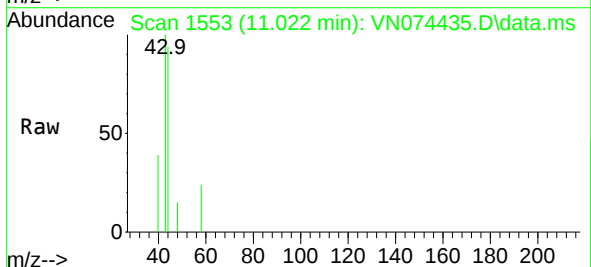
Instrument :
MSVOA_N
ClientSampleId :
AUD-1667

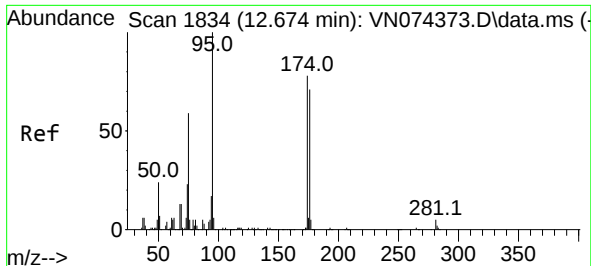
Tgt Ion: 98 Resp: 466824
Ion Ratio Lower Upper
98 100
100 65.1 50.6 76.0



#59
2-Hexanone
Concen: 0.248 ug/l
RT: 11.022 min Scan# 1553
Delta R.T. -0.006 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

Tgt Ion: 43 Resp: 1247
Ion Ratio Lower Upper
43 100
58 12.8 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 50.660 ug/l

RT: 12.675 min Scan# 1834

Delta R.T. 0.000 min

Lab File: VN074435.D

Acq: 13 Sep 2022 16:02

Instrument :

MSVOA_N

ClientSampleId :

AUD-1667

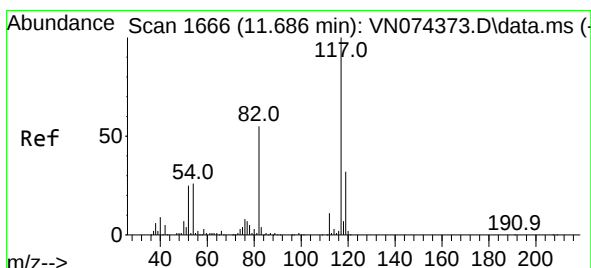
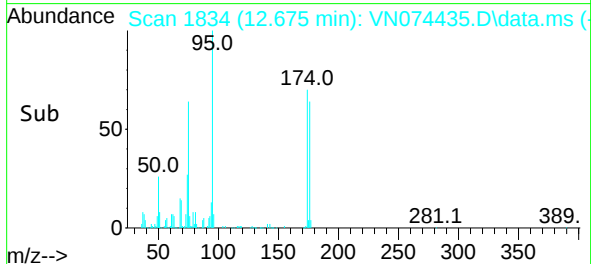
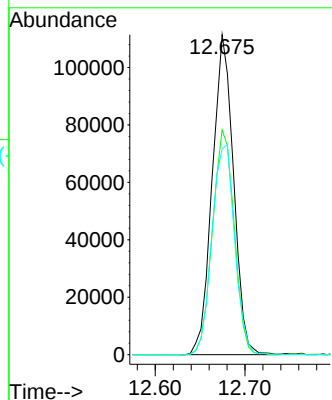
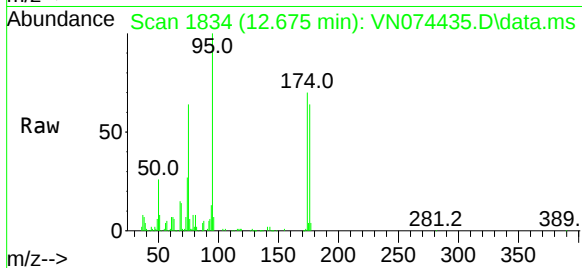
Tgt Ion: 95 Resp: 182957

Ion Ratio Lower Upper

95 100

174 72.0 0.0 150.6

176 70.4 0.0 143.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1666

Delta R.T. 0.000 min

Lab File: VN074435.D

Acq: 13 Sep 2022 16:02

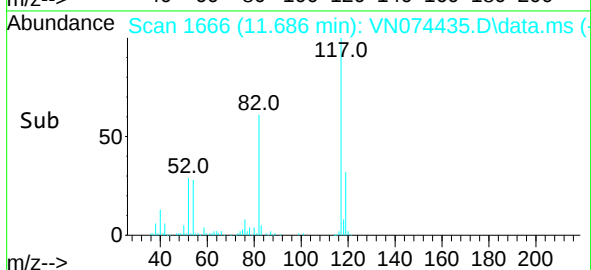
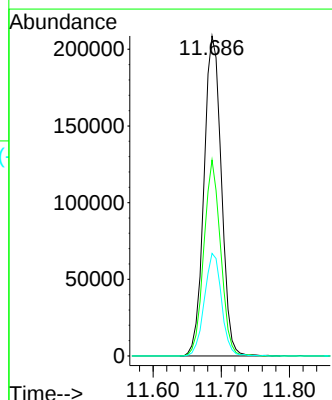
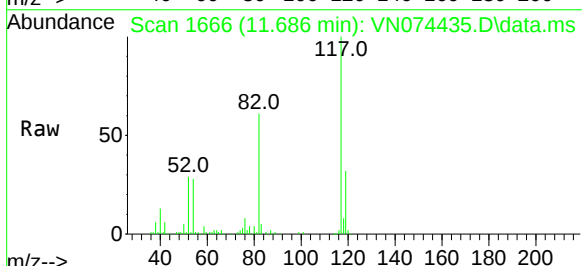
Tgt Ion: 117 Resp: 369886

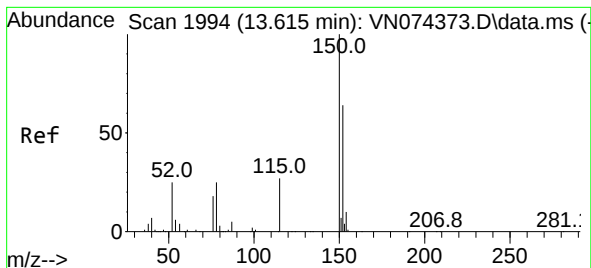
Ion Ratio Lower Upper

117 100

82 61.3 44.3 66.5

119 32.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.622 min Scan# 1995

Delta R.T. 0.007 min

Lab File: VN074435.D

Acq: 13 Sep 2022 16:02

Instrument :

MSVOA_N

ClientSampleId :

AUD-1667

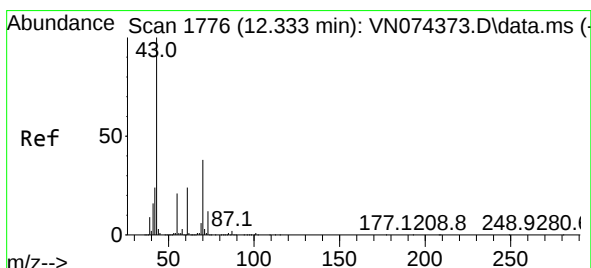
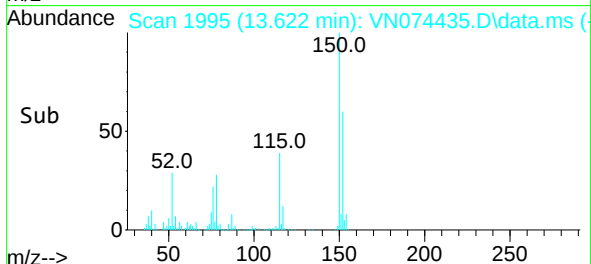
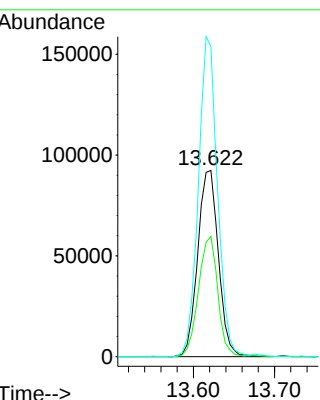
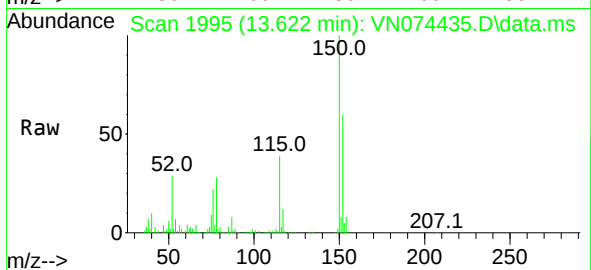
Tgt Ion:152 Resp: 163471

Ion Ratio Lower Upper

152 100

115 60.1 32.0 96.0

150 158.4 0.0 359.6



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.369 min Scan# 1782

Delta R.T. 0.036 min

Lab File: VN074435.D

Acq: 13 Sep 2022 16:02

Tgt Ion: 43 Resp: 88

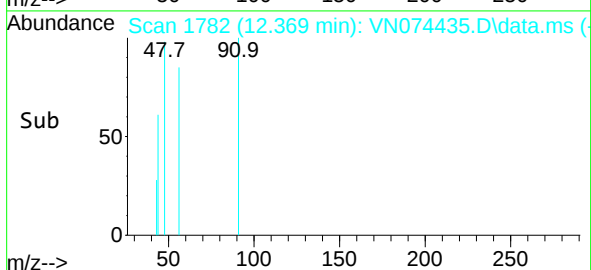
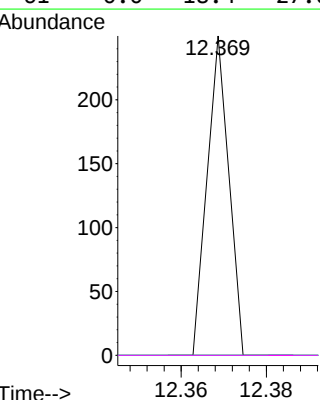
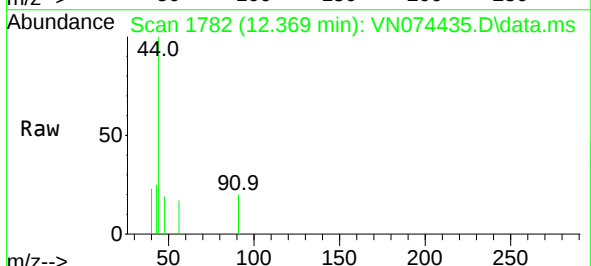
Ion Ratio Lower Upper

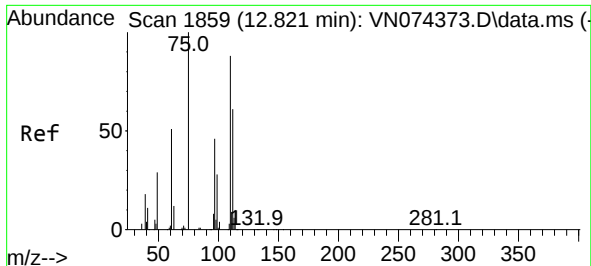
43 100

70 0.0 31.4 47.0#

55 0.0 17.0 25.6#

61 0.0 18.4 27.6#

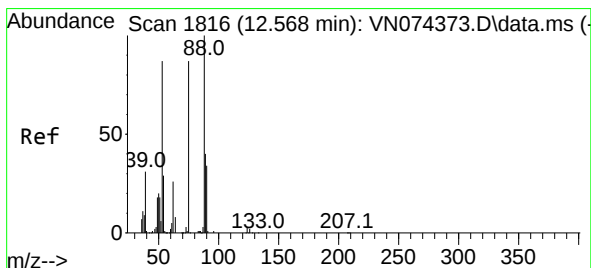
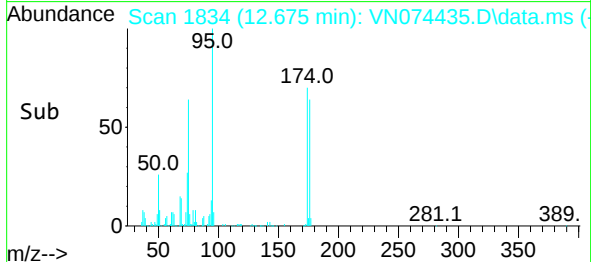
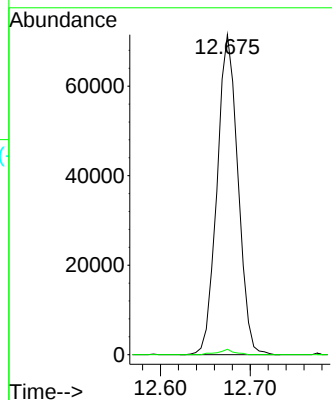
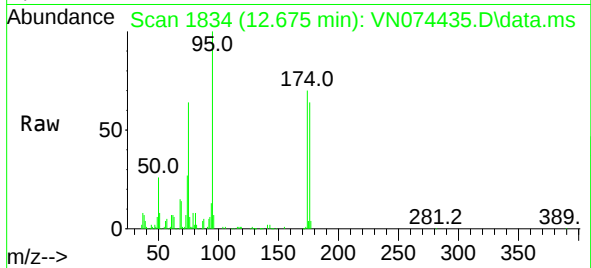




#76
1,2,3-Trichloropropane
Concen: 27.075 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

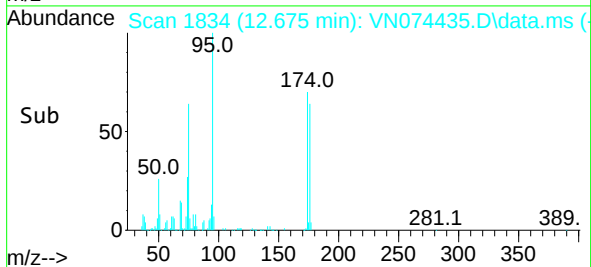
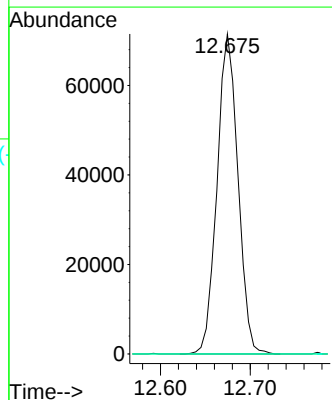
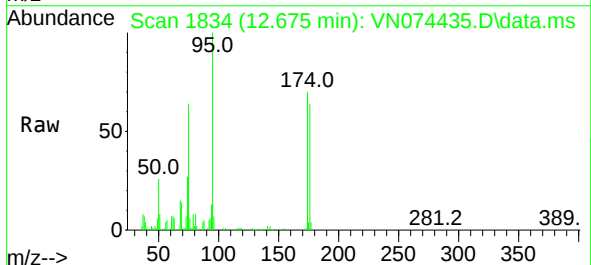
Instrument :
MSVOA_N
ClientSampleId :
AUD-1667

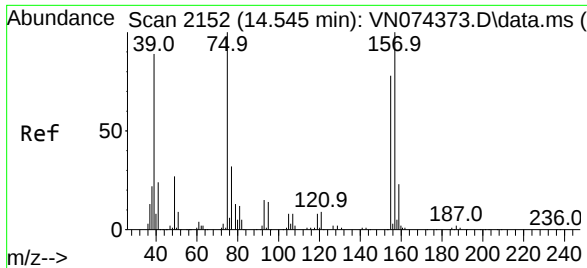
Tgt Ion: 75 Resp: 115701
Ion Ratio Lower Upper
75 100
77 1.3 78.9 236.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.349 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074435.D
Acq: 13 Sep 2022 16:02

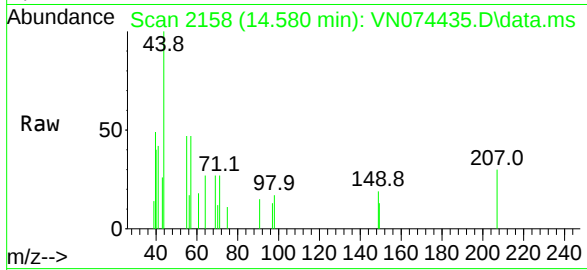
Tgt Ion: 75 Resp: 115701
Ion Ratio Lower Upper
75 100
53 0.0 82.2 123.2#
89 0.0 37.7 56.5#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.580 min Scan# 21
 Delta R.T. 0.035 min
 Lab File: VN074435.D
 Acq: 13 Sep 2022 16:02

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1667



Tgt Ion: 75 Resp: 54
 Ion Ratio Lower Upper
 75 100
 155 0.0 36.6 109.9#
 157 0.0 46.2 138.5#

