

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062822\
 Data File : VN073216.D
 Acq On : 28 Jun 2022 23:04
 Operator : JC\MD
 Sample : N3494-32
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 02:04:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 01:54:03 2022
 Response via : Initial Calibration

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

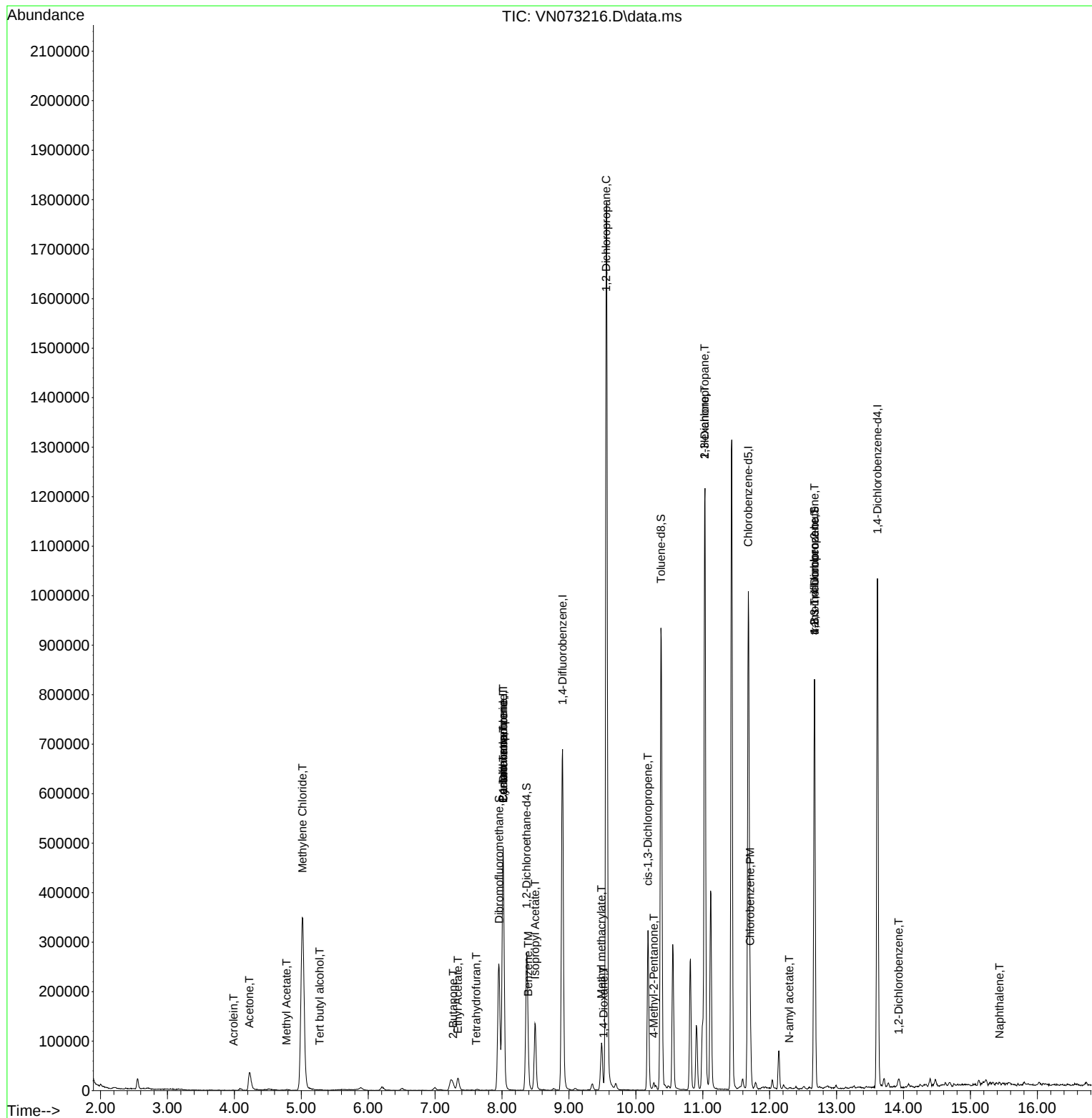
Internal Standards						
1) Pentafluorobenzene	8.016	168	360620	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	610383	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	564284	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	269272	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	229230	44.032	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.060%		
35) Dibromofluoromethane	7.957	113	191545	47.167	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.340%		
50) Toluene-d8	10.375	98	641776	44.496	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.000%		
62) 4-Bromofluorobenzene	12.669	95	283237	51.100	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.200%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.275	59	759	0.602	ug/l #	72
13) Acrolein	3.987	56	181	0.227	ug/l #	16
16) Acetone	4.222	43	69368	23.738	ug/l	90
18) Methyl Acetate	4.781	43	3644	0.445	ug/l #	79
20) Methylene Chloride	5.016	84	286655	55.819	ug/l	87
25) 2-Butanone	7.269	43	21305	4.579	ug/l #	83
29) Tetrahydrofuran	7.616	42	1345	0.422	ug/l #	81
31) Cyclohexane	8.016	56	8566	1.005	ug/l #	23
36) 1,1-Dichloropropene	8.016	75	30297	4.849	ug/l #	49
37) Ethyl Acetate	7.340	43	42106	4.460	ug/l #	94
38) Carbon Tetrachloride	8.016	117	37859	5.859	ug/l #	16
40) Benzene	8.392	78	11313	0.587	ug/l #	79
43) Isopropyl Acetate	8.492	43	155272	11.443	ug/l #	88
45) 1,2-Dichloropropane	9.557	63	2768	0.563	ug/l #	44
48) Methyl methacrylate	9.486	41	8579	1.366	ug/l #	38
49) 1,4-Dioxane	9.516	88	55	0.461	ug/l #	25
51) 4-Methyl-2-Pentanone	10.269	43	9915	1.152	ug/l	94
54) cis-1,3-Dichloropropene	10.181	75	55810	7.265	ug/l #	68
57) 1,3-Dichloropropane	11.028	76	12324	1.465	ug/l #	42
59) 2-Hexanone	11.028	43	189576	28.902	ug/l #	46
65) Chlorobenzene	11.710	112	75948	5.951	ug/l	100
74) N-amyl acetate	12.292	43	2584	0.222	ug/l #	44
76) 1,2,3-Trichloropropane	12.669	75	147780	20.989	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	147780	57.561	ug/l #	10
91) 1,2-Dichlorobenzene	13.927	146	4299	0.435	ug/l #	81
95) Naphthalene	15.433	128	5989	0.289	ug/l #	90

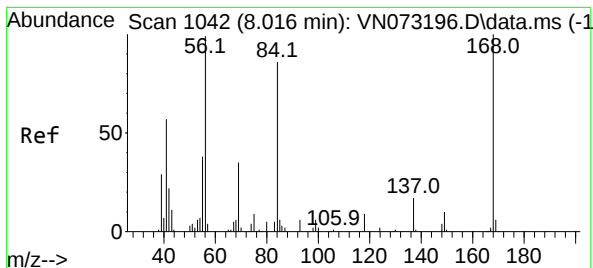
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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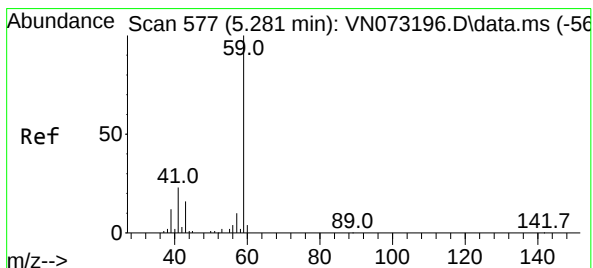
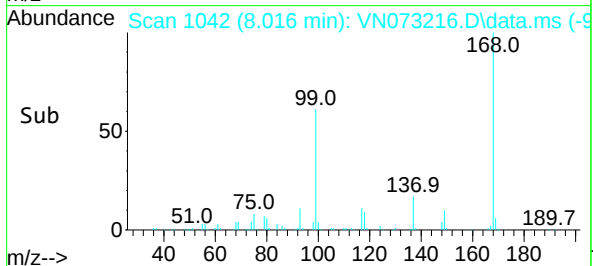
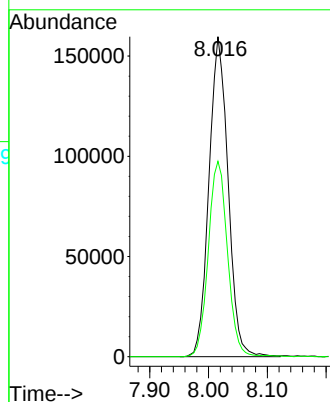
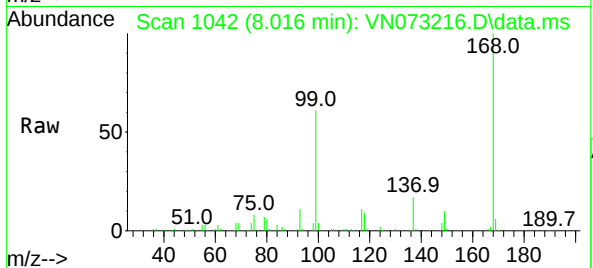




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

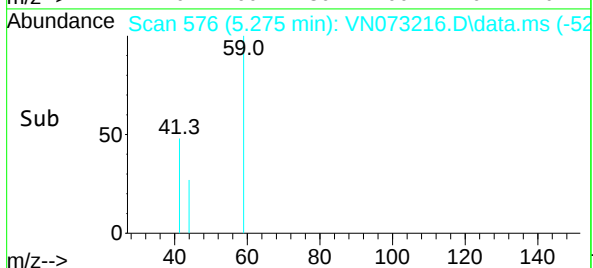
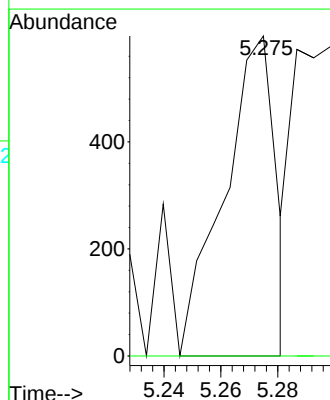
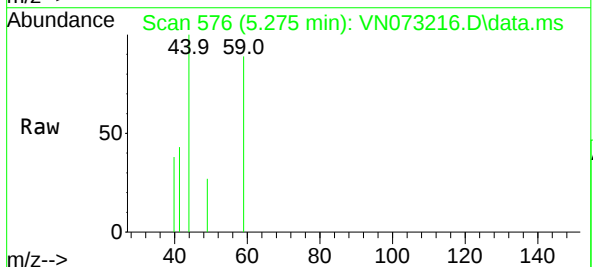
Instrument :
MSVOA_N
ClientSampleId :

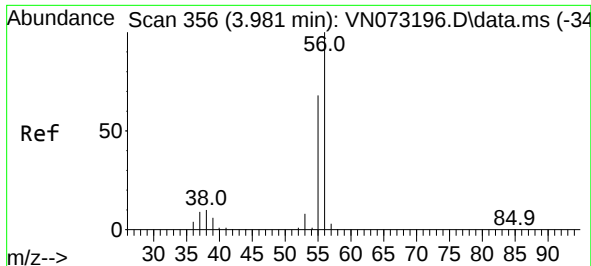
Tgt Ion:168 Resp: 360620
Ion Ratio Lower Upper
168 100
99 61.0 42.3 63.5



#11
Tert butyl alcohol
Concen: 0.602 ug/l
RT: 5.275 min Scan# 576
Delta R.T. -0.006 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 59 Resp: 759
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

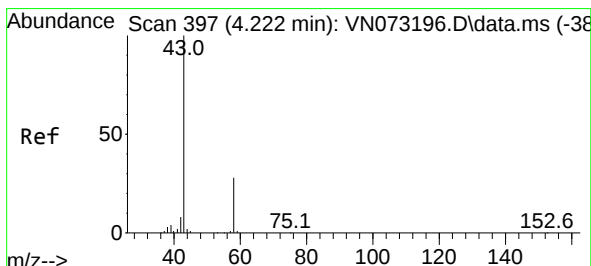
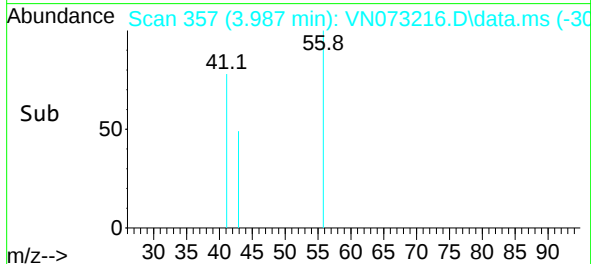
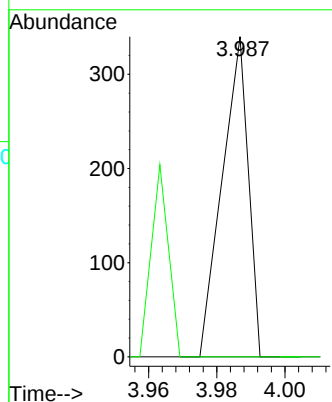
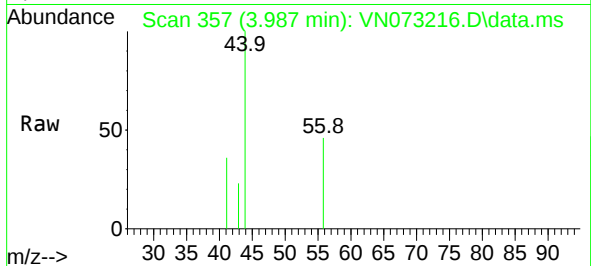




#13
Acrolein
Concen: 0.227 ug/l
RT: 3.987 min Scan# 356
Delta R.T. 0.006 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

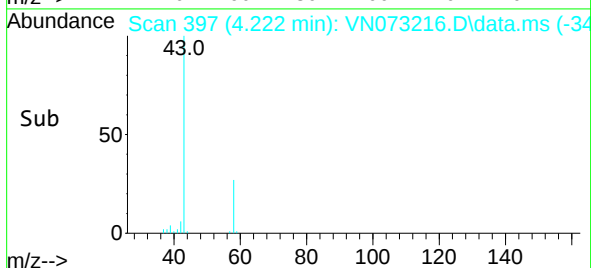
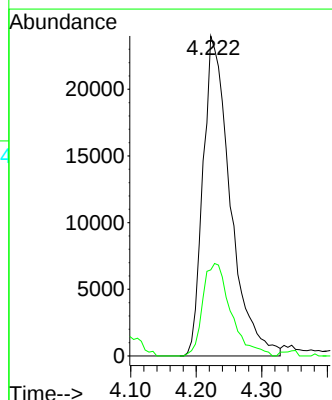
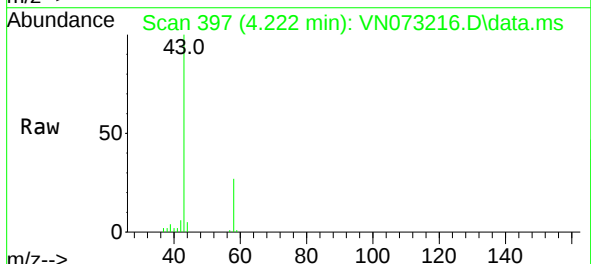
Instrument :
MSVOA_N
ClientSampleId :

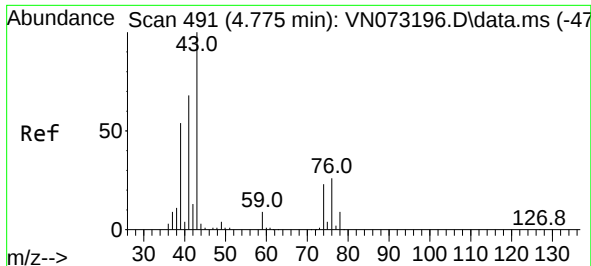
Tgt Ion: 56 Resp: 181
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#



#16
Acetone
Concen: 23.738 ug/l
RT: 4.222 min Scan# 397
Delta R.T. 0.000 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 43 Resp: 69368
Ion Ratio Lower Upper
43 100
58 26.9 26.0 39.0

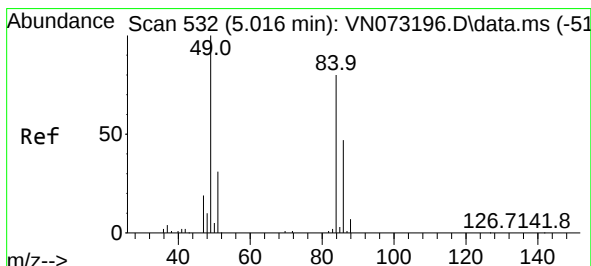
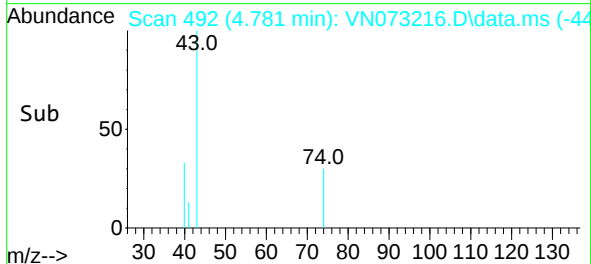
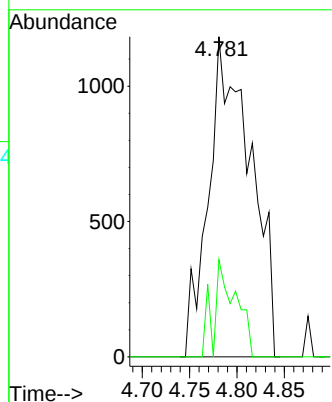
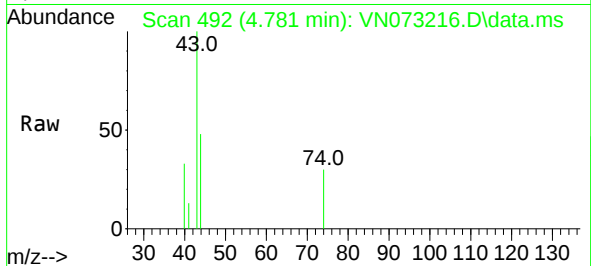




#18
Methyl Acetate
Concen: 0.445 ug/l
RT: 4.781 min Scan# 491
Delta R.T. 0.006 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

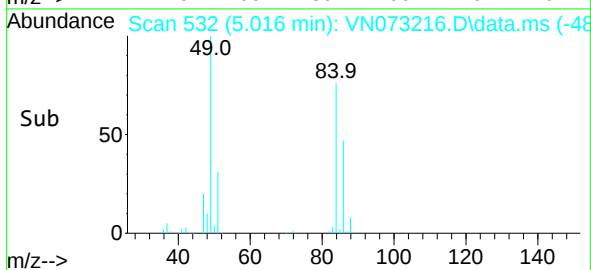
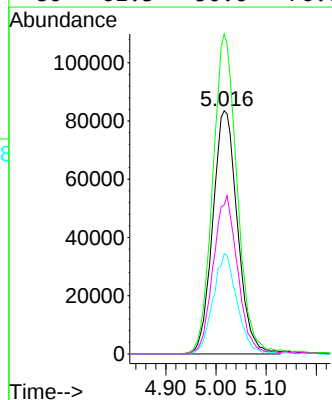
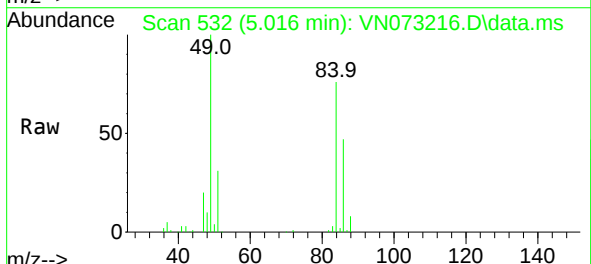
Instrument :
MSVOA_N
ClientSampleId :

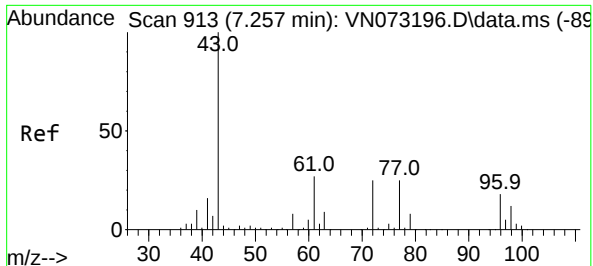
Tgt Ion: 43 Resp: 3644
Ion Ratio Lower Upper
43 100
74 16.2 21.6 32.4#



#20
Methylene Chloride
Concen: 55.819 ug/l
RT: 5.016 min Scan# 532
Delta R.T. 0.000 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 84 Resp: 286655
Ion Ratio Lower Upper
84 100
49 131.6 88.3 132.5
51 41.2 28.2 42.2
86 61.3 50.6 76.0





#25

2-Butanone

Concen: 4.579 ug/l

RT: 7.269 min Scan# 913

Delta R.T. 0.012 min

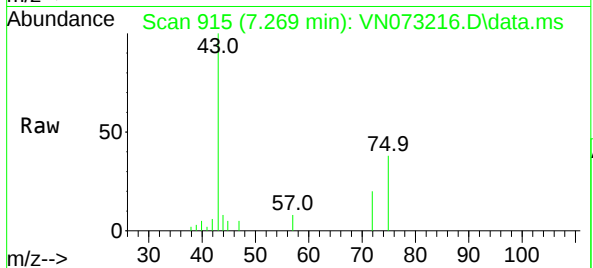
Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

Instrument :

MSVOA_N

ClientSampleId :

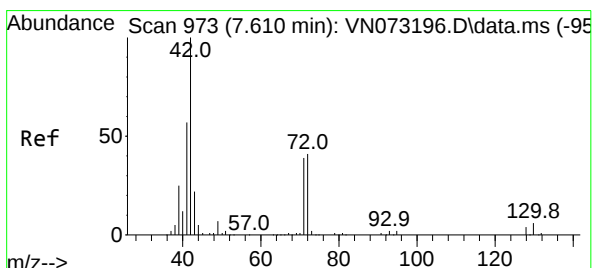
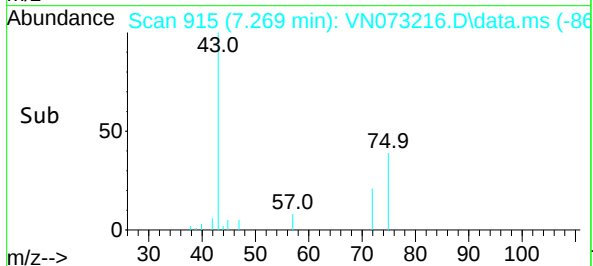
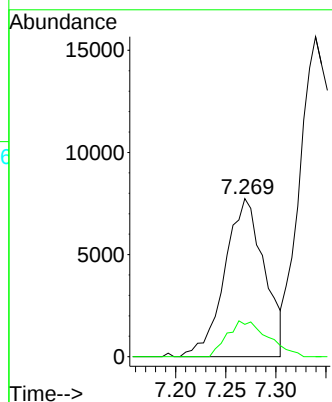


Tgt Ion: 43 Resp: 21305

Ion Ratio Lower Upper

43 100

72 20.5 23.7 35.5#



#29

Tetrahydrofuran

Concen: 0.422 ug/l

RT: 7.616 min Scan# 974

Delta R.T. 0.006 min

Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

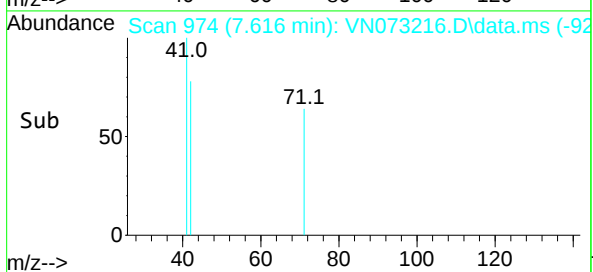
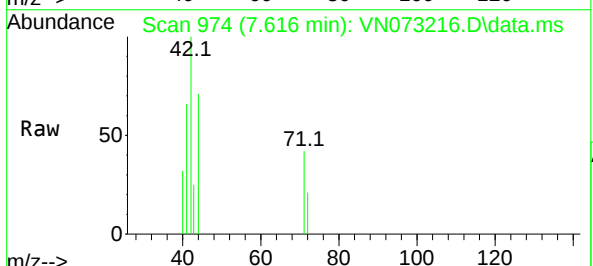
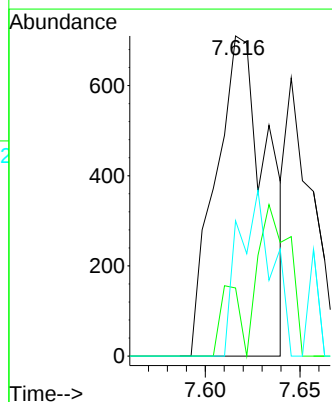
Tgt Ion: 42 Resp: 1345

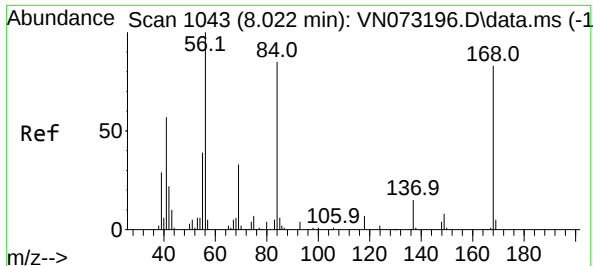
Ion Ratio Lower Upper

42 100

72 36.3 39.7 59.5#

71 34.1 36.6 55.0#





#31

Cyclohexane

Concen: 1.005 ug/l

RT: 8.016 min Scan# 1

Delta R.T. -0.006 min

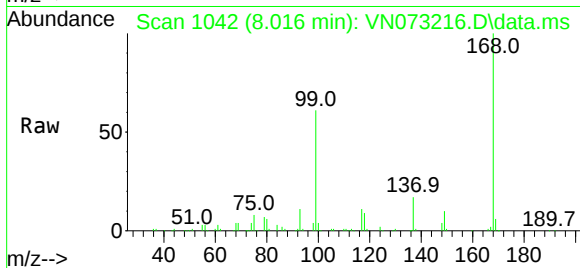
Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

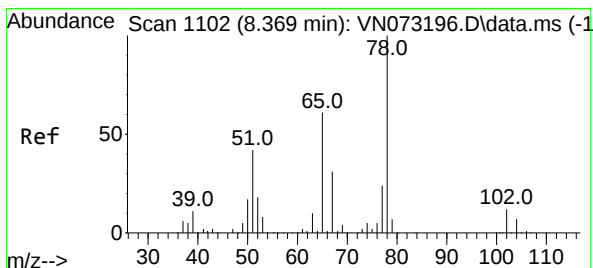
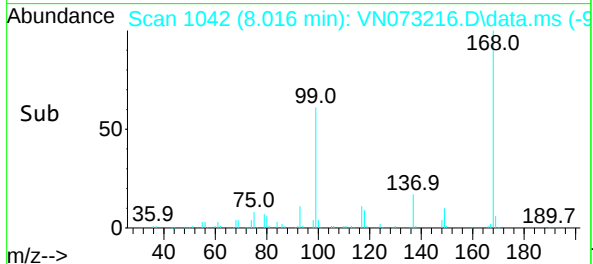
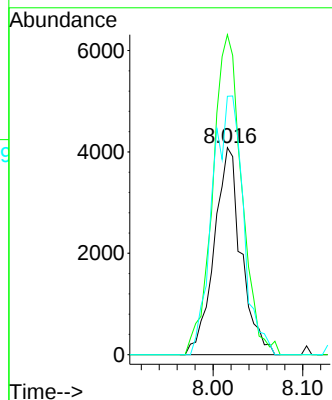
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	56	Resp:	8566
Ion Ratio	Lower	Upper	
56	100		
69	154.6	27.8	41.8#
84	124.8	76.9	115.3#



#33

1,2-Dichloroethane-d4

Concen: 44.032 ug/l

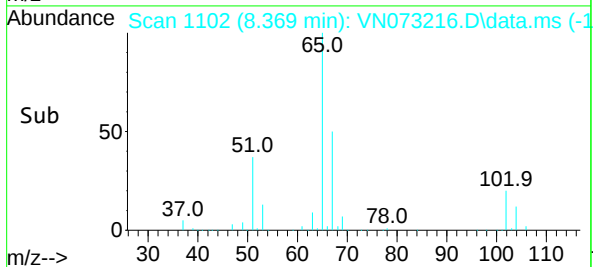
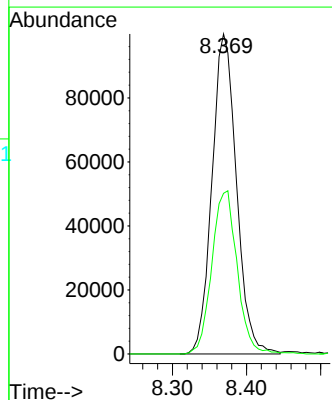
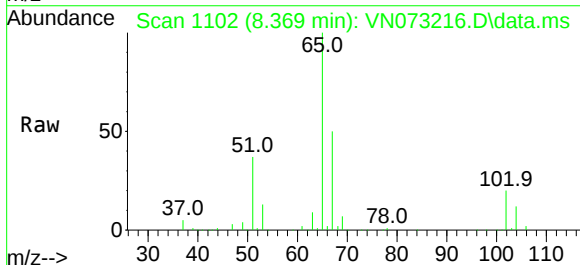
RT: 8.369 min Scan# 1102

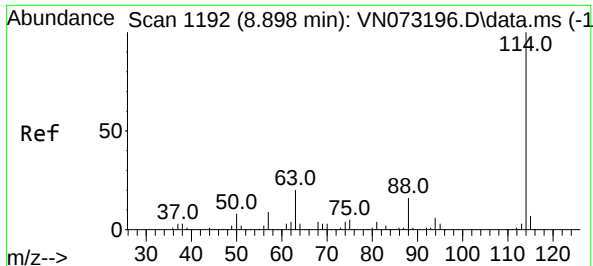
Delta R.T. -0.000 min

Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

Tgt Ion:	65	Resp:	229230
Ion Ratio	Lower	Upper	
65	100		
67	52.9	0.0	104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

Instrument :

MSVOA_N

ClientSampleId :

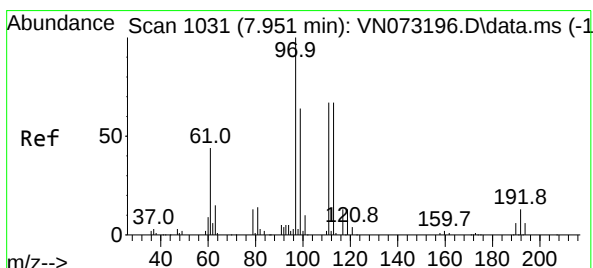
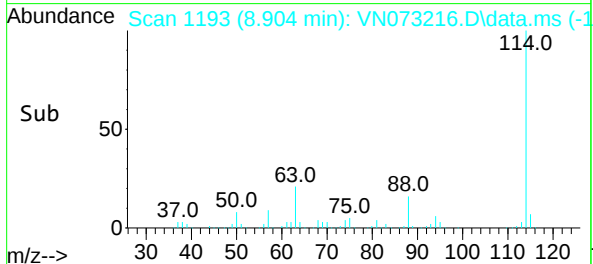
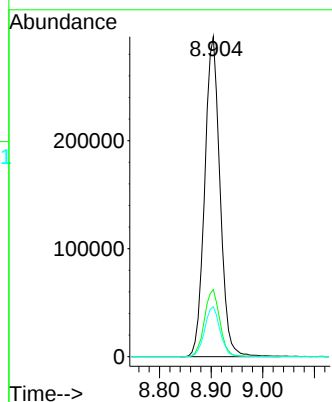
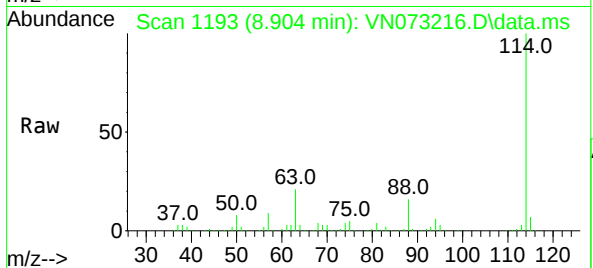
Tgt Ion:114 Resp: 610383

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.0

88 15.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.167 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

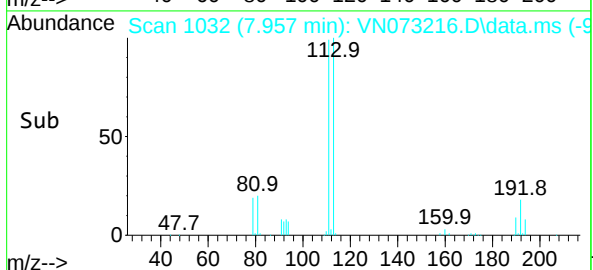
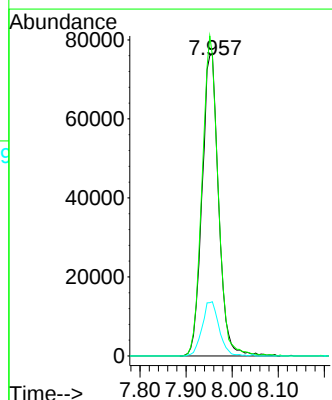
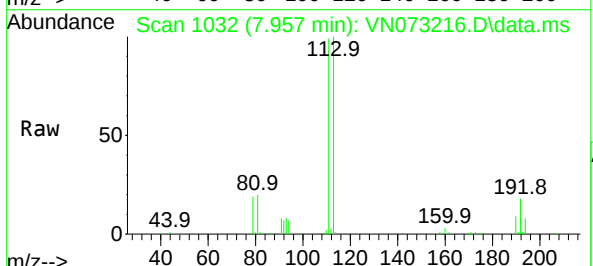
Tgt Ion:113 Resp: 191545

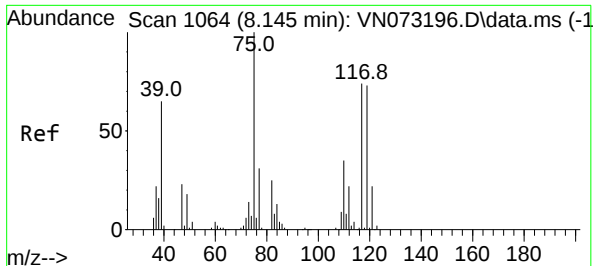
Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

192 18.5 17.0 25.6





#36

1,1-Dichloropropene

Concen: 4.849 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.129 min

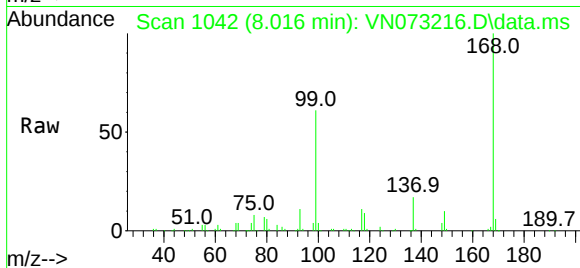
Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

Instrument :

MSVOA_N

ClientSampleId :



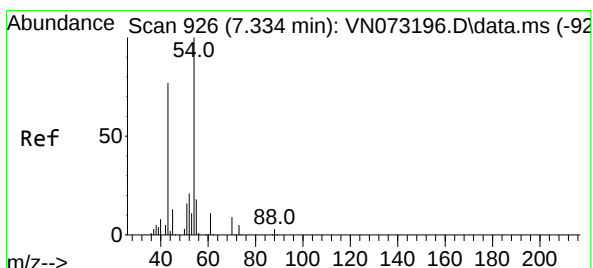
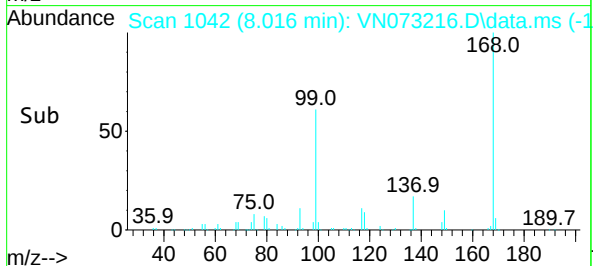
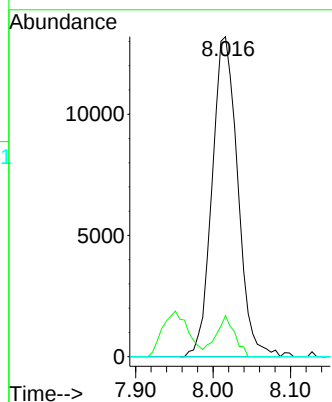
Tgt Ion: 75 Resp: 30297

Ion Ratio Lower Upper

75 100

110 9.4 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 4.460 ug/l

RT: 7.340 min Scan# 927

Delta R.T. 0.006 min

Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

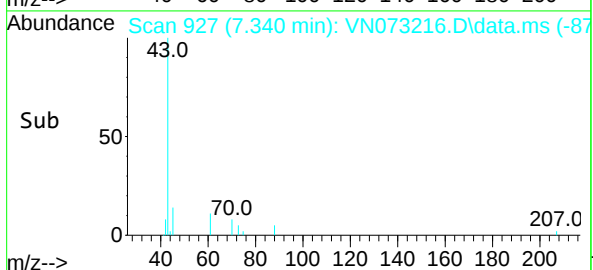
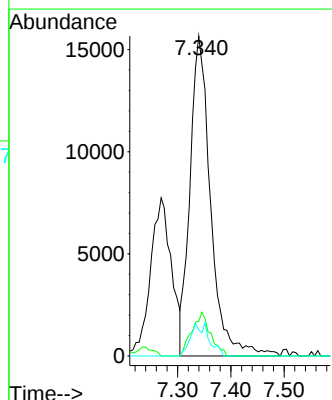
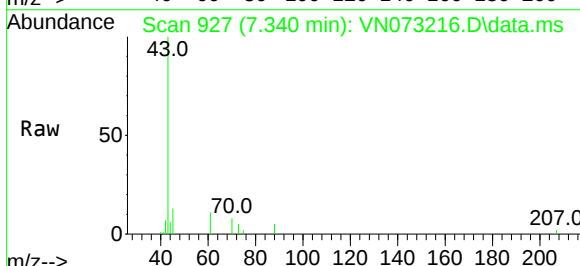
Tgt Ion: 43 Resp: 42106

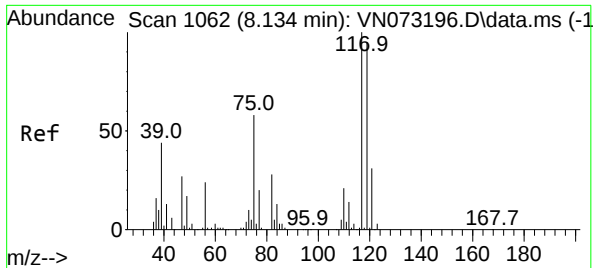
Ion Ratio Lower Upper

43 100

61 12.2 11.8 17.6

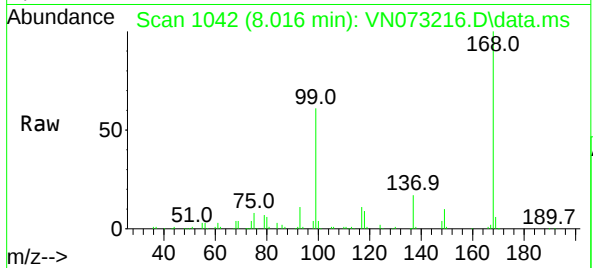
70 9.1 9.3 13.9#



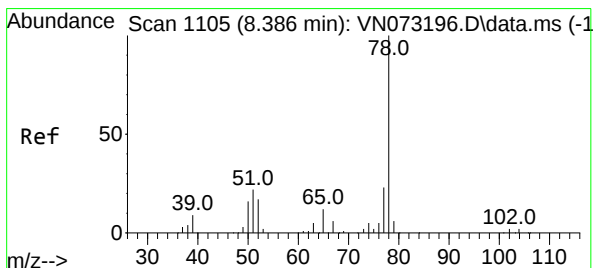
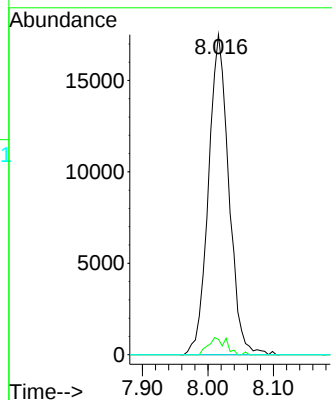
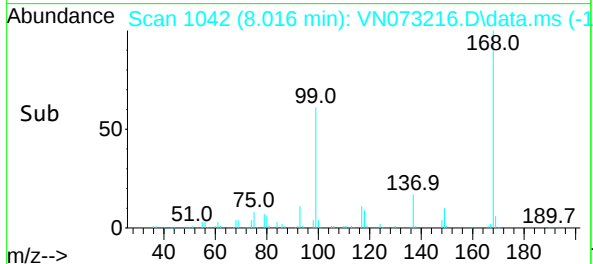


#38
Carbon Tetrachloride
Concen: 5.859 ug/l
RT: 8.016 min Scan# 1106
Delta R.T. -0.118 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Instrument :
MSVOA_N
ClientSampleId :

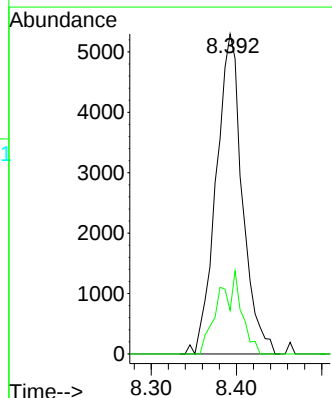
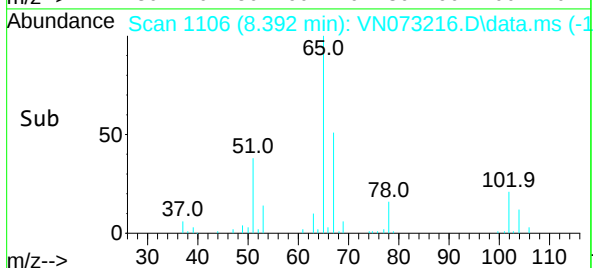
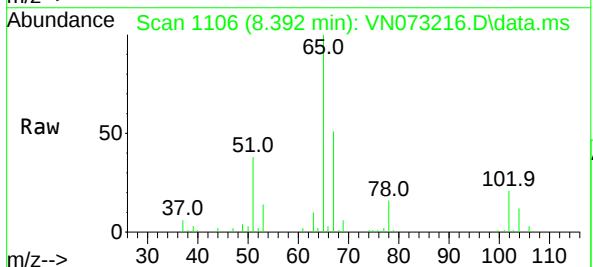


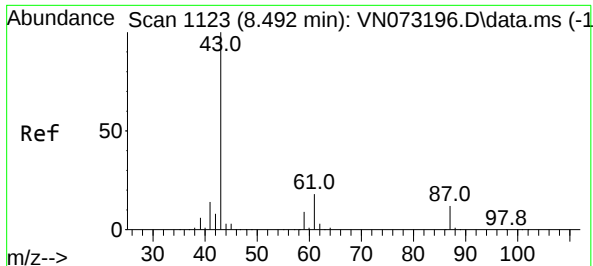
Tgt Ion:117 Resp: 37859
Ion Ratio Lower Upper
117 100
119 4.8 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 0.587 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 78 Resp: 11313
Ion Ratio Lower Upper
78 100
77 13.6 19.4 29.0#

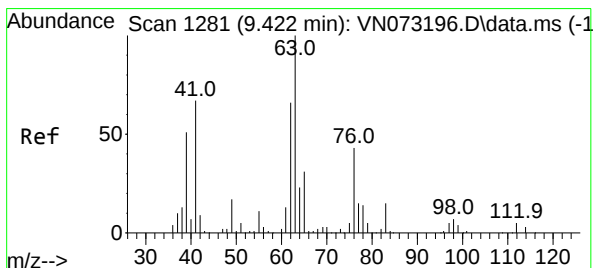
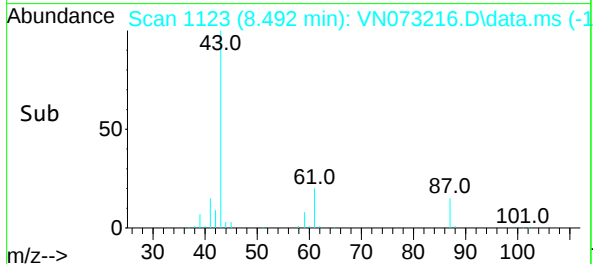
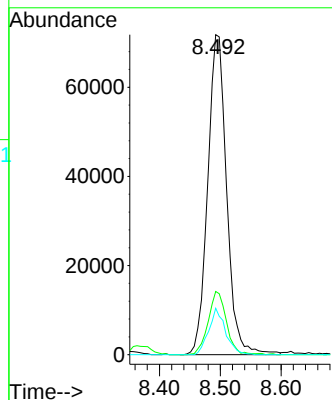
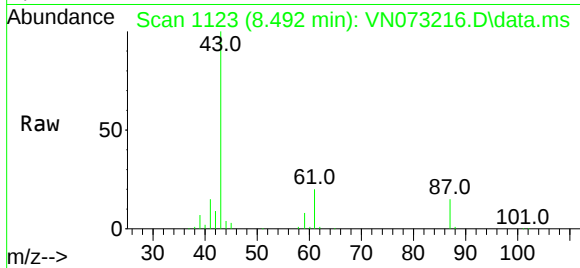




#43
Isopropyl Acetate
Concen: 11.443 ug/l
RT: 8.492 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

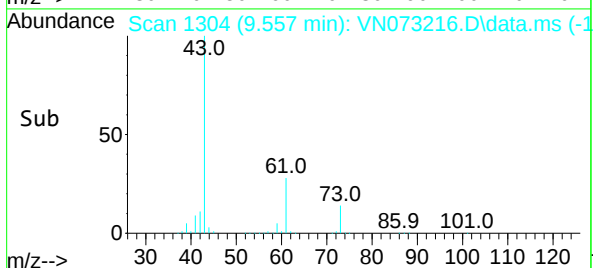
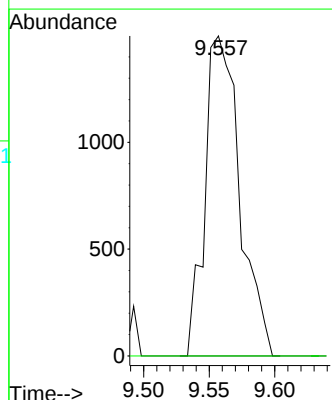
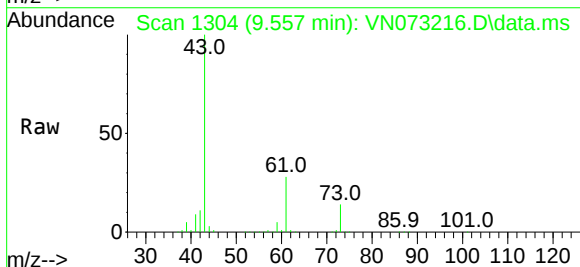
Instrument :
MSVOA_N
ClientSampleId :

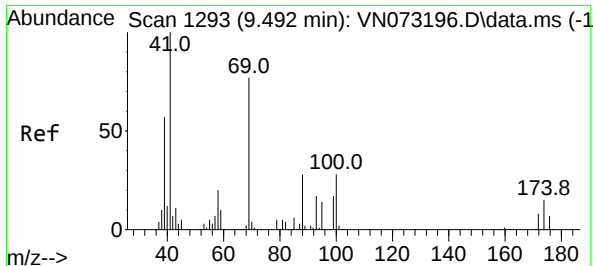
Tgt Ion: 43 Resp: 155272
Ion Ratio Lower Upper
43 100
61 19.0 21.9 32.9#
87 12.8 12.0 18.0



#45
1,2-Dichloropropane
Concen: 0.563 ug/l
RT: 9.557 min Scan# 1304
Delta R.T. 0.135 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 63 Resp: 2768
Ion Ratio Lower Upper
63 100
65 0.0 24.9 37.3#

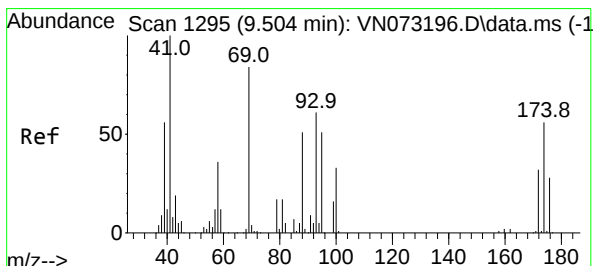
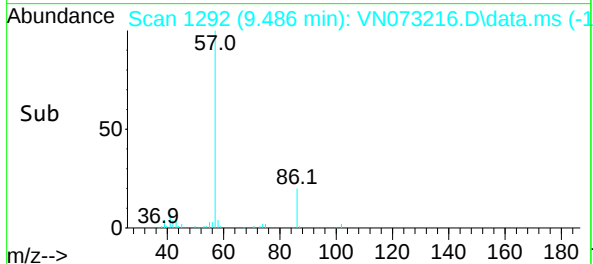
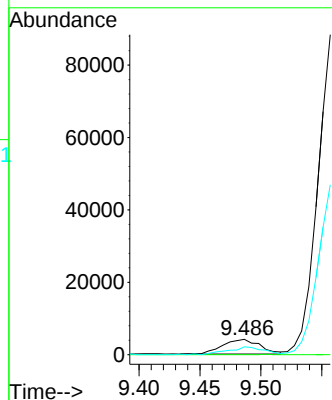
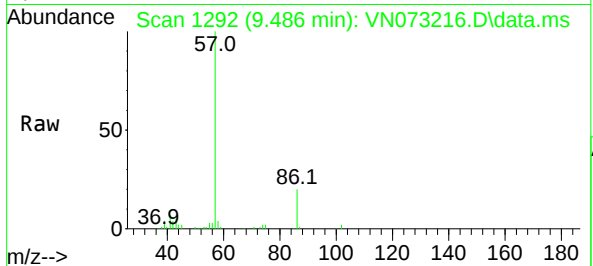




#48
Methyl methacrylate
Concen: 1.366 ug/l
RT: 9.486 min Scan# 1292
Delta R.T. -0.006 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

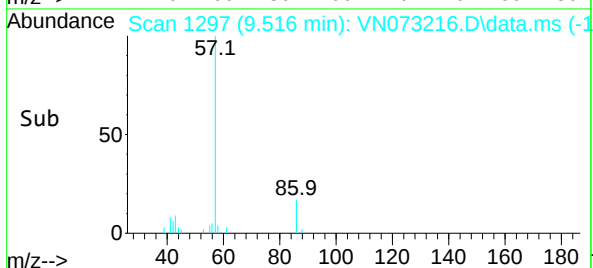
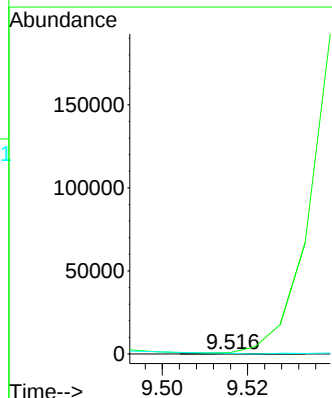
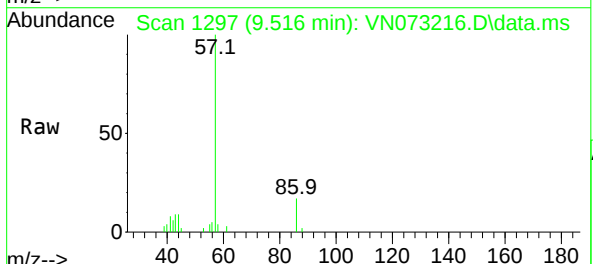
Instrument :
MSVOA_N
ClientSampleId :

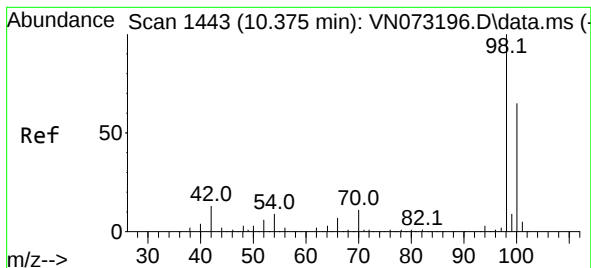
Tgt Ion: 41 Resp: 8579
Ion Ratio Lower Upper
41 100
69 0.6 74.7 112.1#
39 52.8 45.6 68.4



#49
1,4-Dioxane
Concen: 0.461 ug/l
RT: 9.516 min Scan# 1297
Delta R.T. 0.012 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 0.0 54.2 81.4#

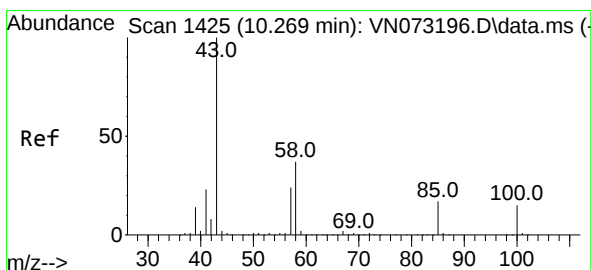
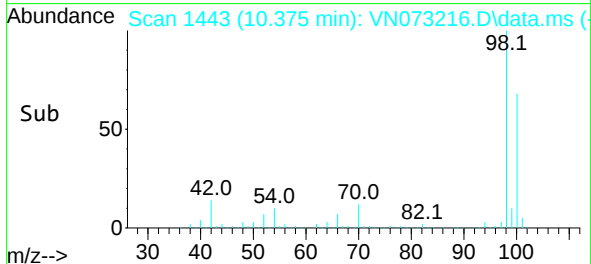
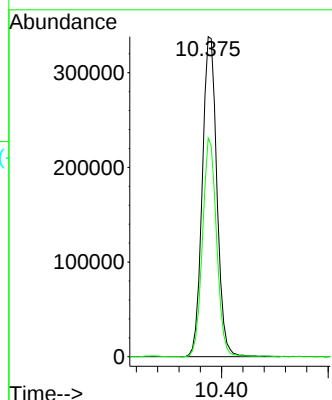
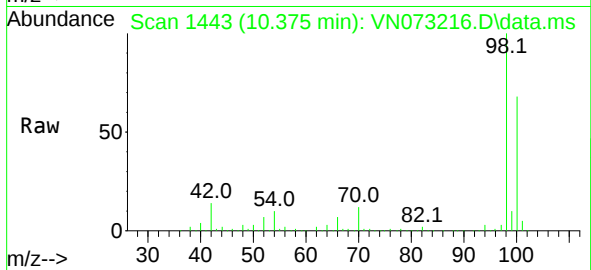




#50
Toluene-d8
Concen: 44.496 ug/l
RT: 10.375 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

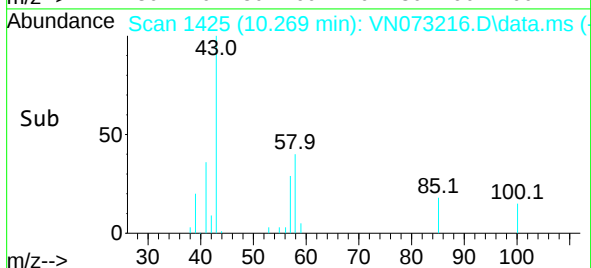
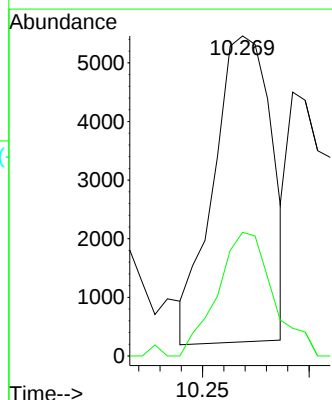
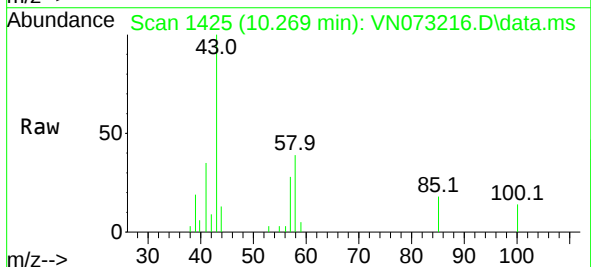
Instrument :
MSVOA_N
ClientSampleId :

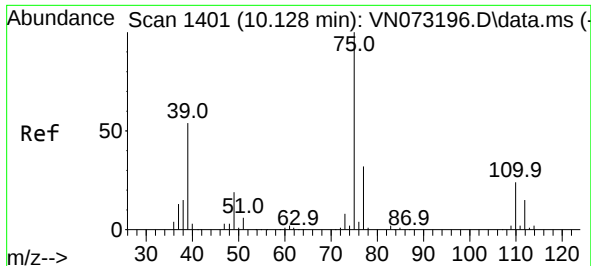
Tgt Ion: 98 Resp: 641776
Ion Ratio Lower Upper
98 100
100 66.0 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.152 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 43 Resp: 9915
Ion Ratio Lower Upper
43 100
58 38.6 34.1 51.1

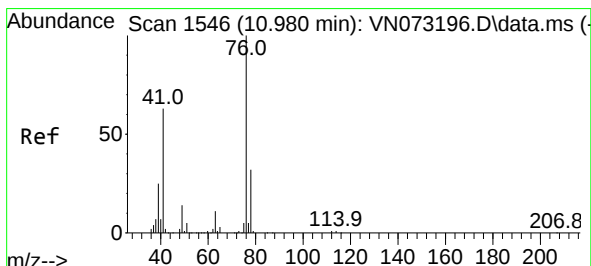
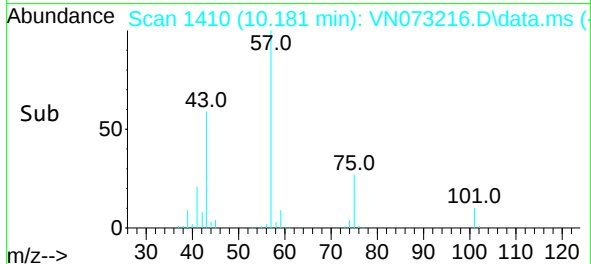
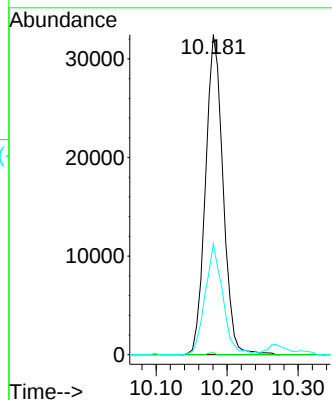
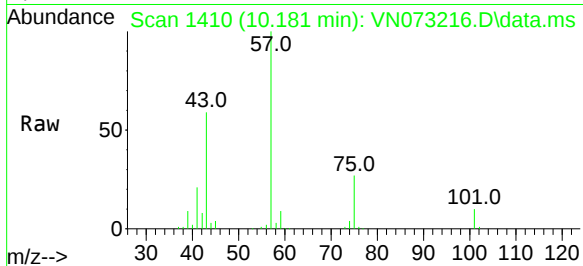




#54
 cis-1,3-Dichloropropene
 Concen: 7.265 ug/l
 RT: 10.181 min Scan# 1401
 Delta R.T. 0.053 min
 Lab File: VN073216.D
 Acq: 28 Jun 2022 23:04

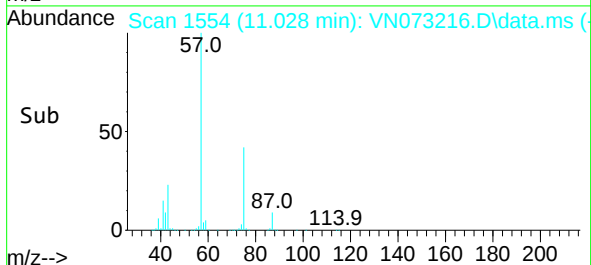
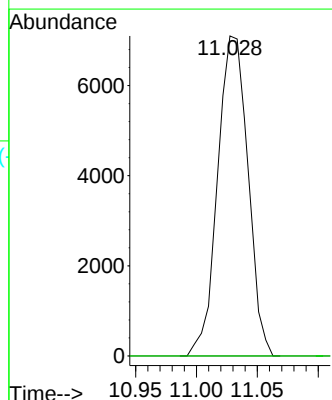
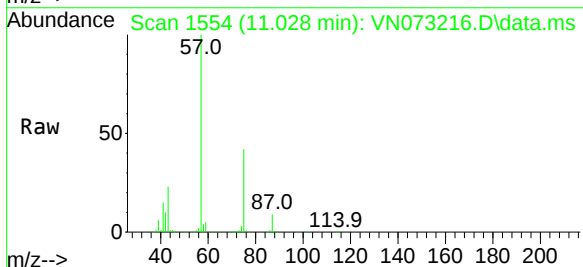
Instrument :
 MSVOA_N
 ClientSampleId :

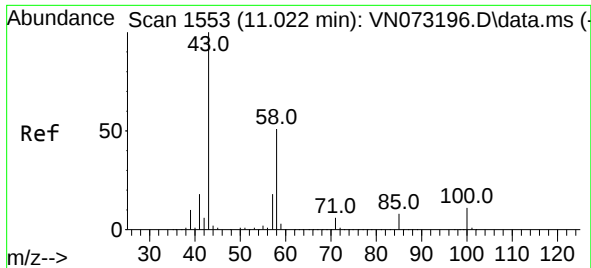
Tgt Ion: 75 Resp: 55810
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 34.6 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 1.465 ug/l
 RT: 11.028 min Scan# 1554
 Delta R.T. 0.048 min
 Lab File: VN073216.D
 Acq: 28 Jun 2022 23:04

Tgt Ion: 76 Resp: 12324
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

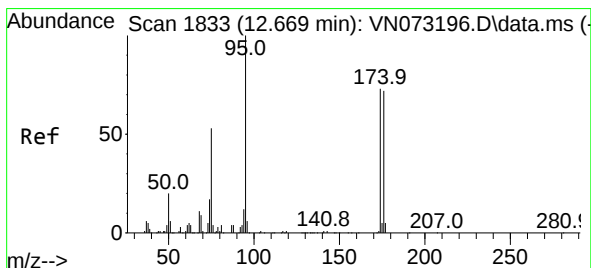
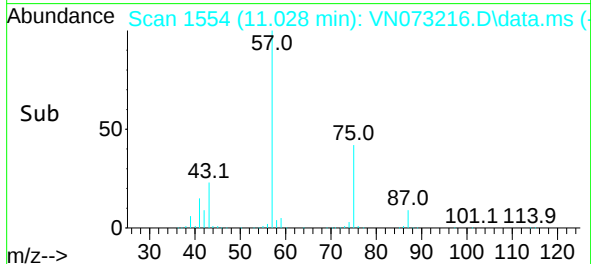
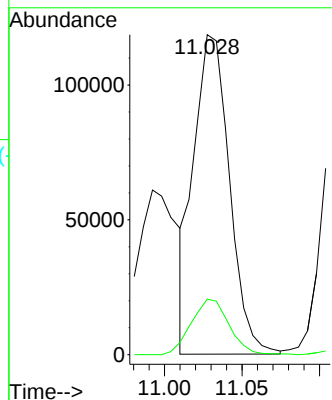
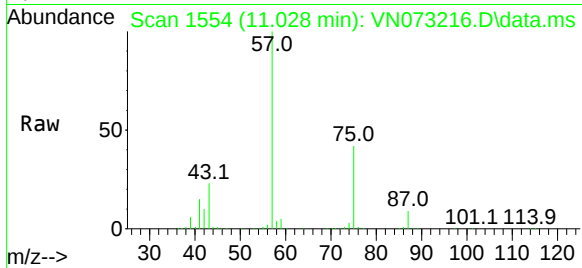




#59
2-Hexanone
Concen: 28.902 ug/l
RT: 11.028 min Scan# 11553
Delta R.T. 0.006 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

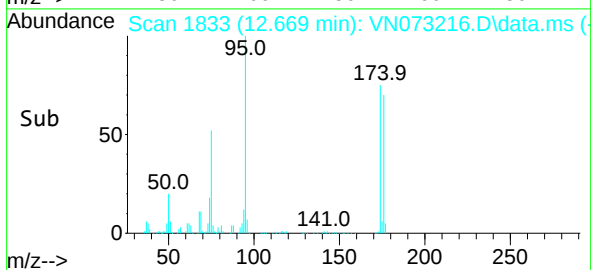
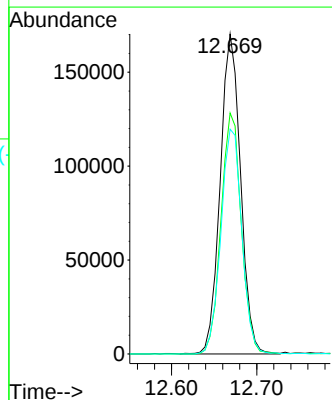
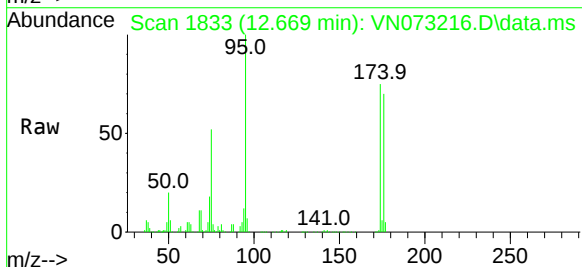
Instrument :
MSVOA_N
ClientSampleId :

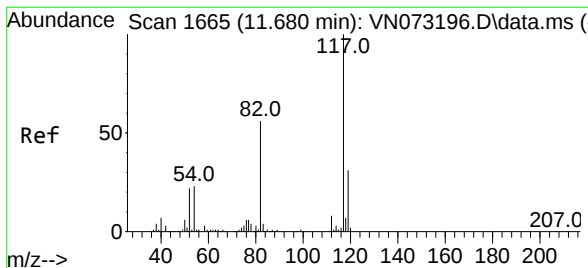
Tgt Ion: 43 Resp: 189576
Ion Ratio Lower Upper
43 100
58 18.5 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 51.100 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 95 Resp: 283237
Ion Ratio Lower Upper
95 100
174 75.1 0.0 167.6
176 72.2 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.680 min Scan# 1

Delta R.T. 0.000 min

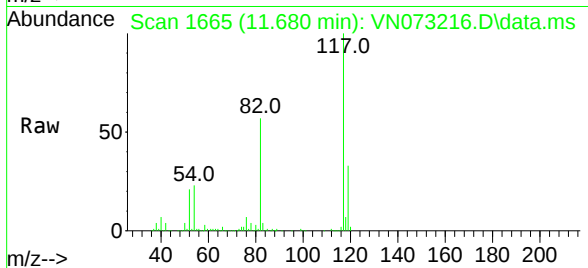
Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

Instrument :

MSVOA_N

ClientSampleId :



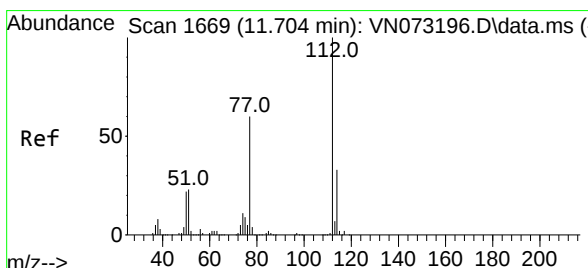
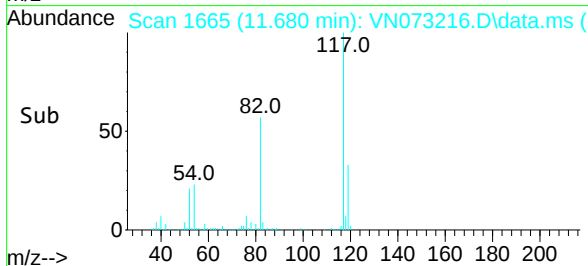
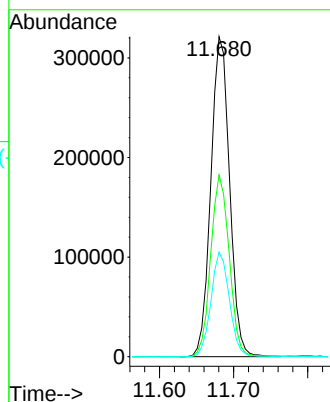
Tgt Ion:117 Resp: 564284

Ion Ratio Lower Upper

117 100

82 56.8 44.2 66.2

119 32.7 25.4 38.0



#65

Chlorobenzene

Concen: 5.951 ug/l

RT: 11.710 min Scan# 1670

Delta R.T. 0.006 min

Lab File: VN073216.D

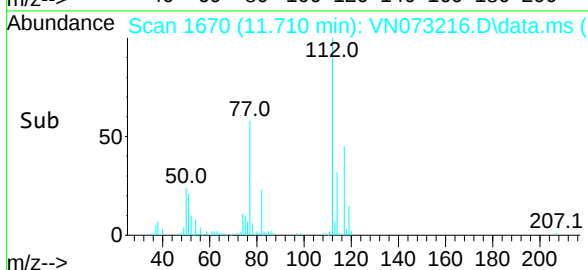
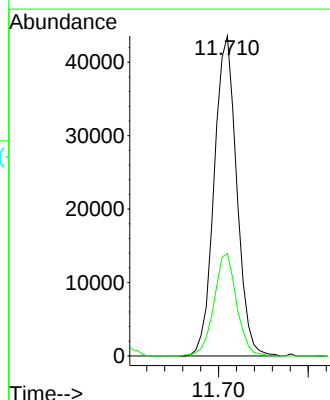
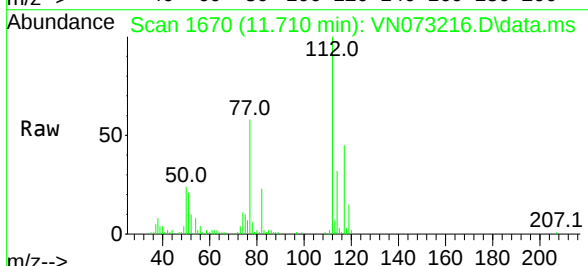
Acq: 28 Jun 2022 23:04

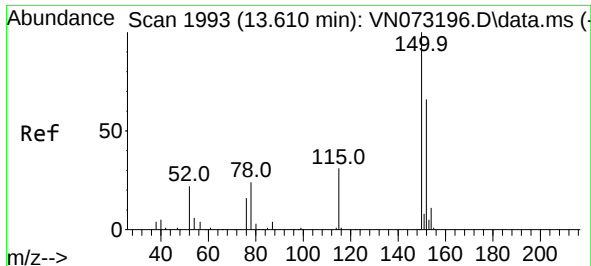
Tgt Ion:112 Resp: 75948

Ion Ratio Lower Upper

112 100

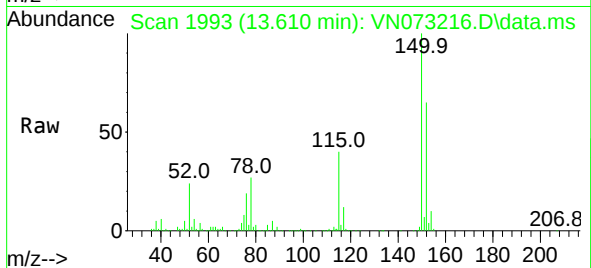
114 32.0 25.4 38.2



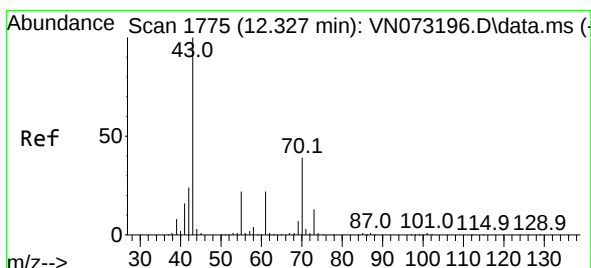
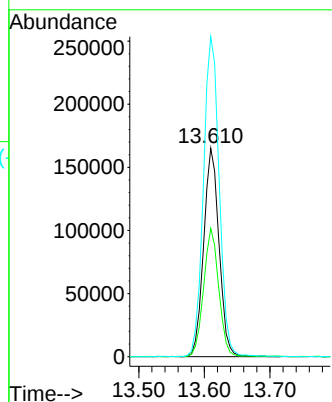
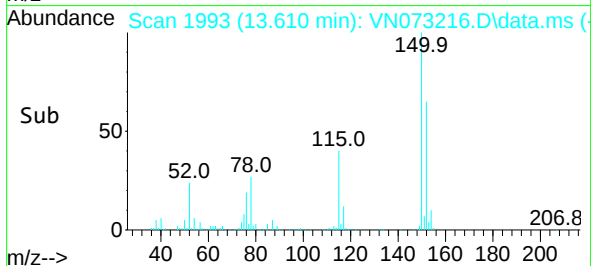


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.610 min Scan# 1993
 Delta R.T. -0.000 min
 Lab File: VN073216.D
 Acq: 28 Jun 2022 23:04

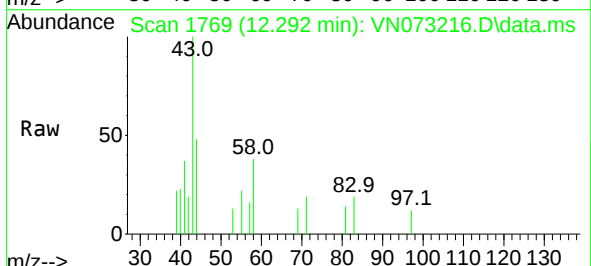
Instrument :
 MSVOA_N
 ClientSampleId :



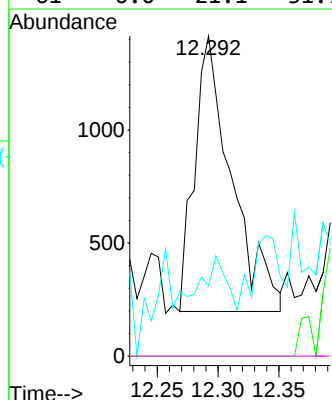
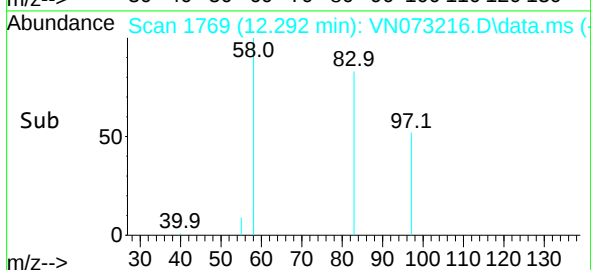
Tgt Ion:152 Resp: 269272
 Ion Ratio Lower Upper
 152 100
 115 60.9 28.9 86.7
 150 158.0 0.0 356.2

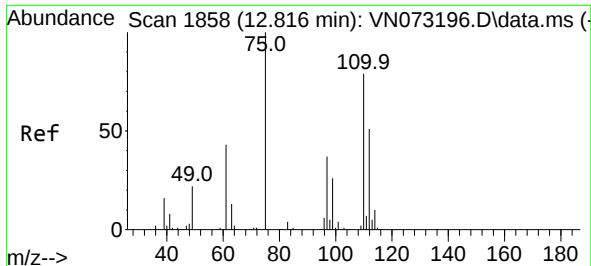


#74
 N-ethyl acetate
 Concen: 0.222 ug/l
 RT: 12.292 min Scan# 1769
 Delta R.T. -0.035 min
 Lab File: VN073216.D
 Acq: 28 Jun 2022 23:04



Tgt Ion: 43 Resp: 2584
 Ion Ratio Lower Upper
 43 100
 70 0.0 39.0 58.4#
 55 10.4 21.1 31.7#
 61 0.0 21.1 31.7#

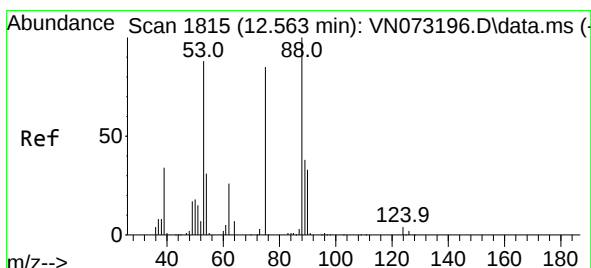
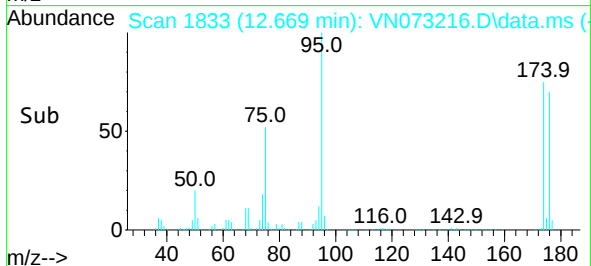
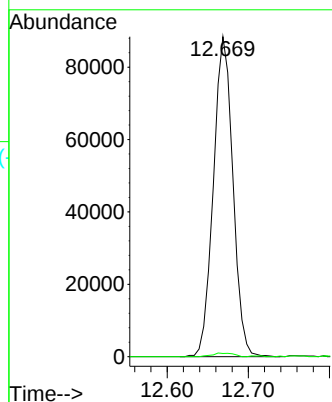
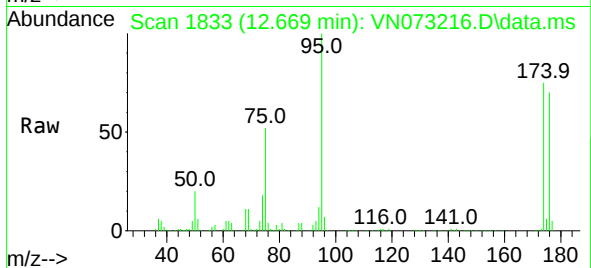




#76
1,2,3-Trichloropropane
Concen: 20.989 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.147 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

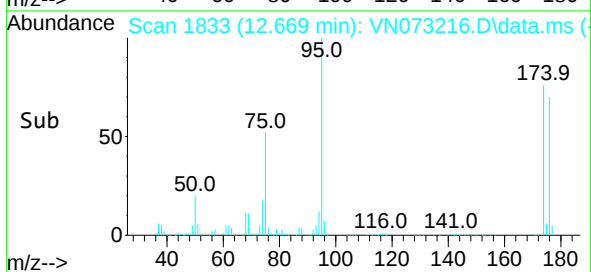
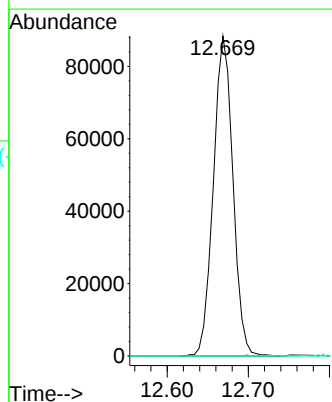
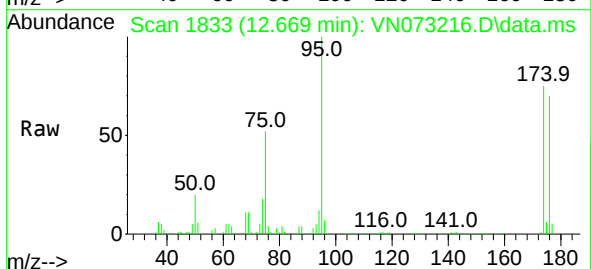
Instrument :
MSVOA_N
ClientSampleId :

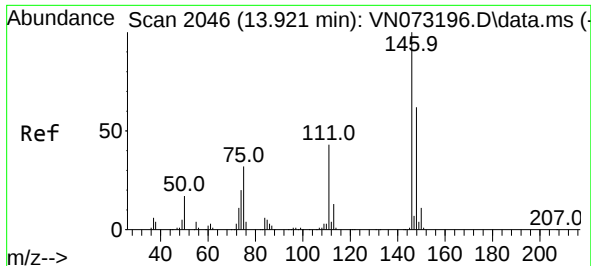
Tgt Ion: 75 Resp: 147780
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.561 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN073216.D
Acq: 28 Jun 2022 23:04

Tgt Ion: 75 Resp: 147780
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#





#91

1,2-Dichlorobenzene

Concen: 0.435 ug/l

RT: 13.927 min Scan# 2046

Delta R.T. 0.006 min

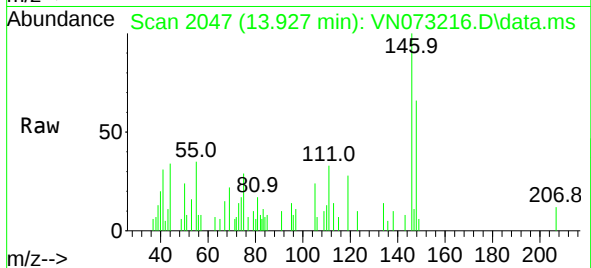
Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

Instrument :

MSVOA_N

ClientSampleId :



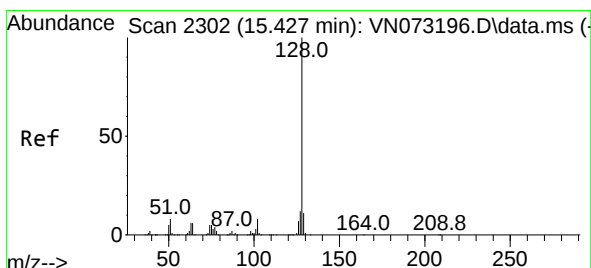
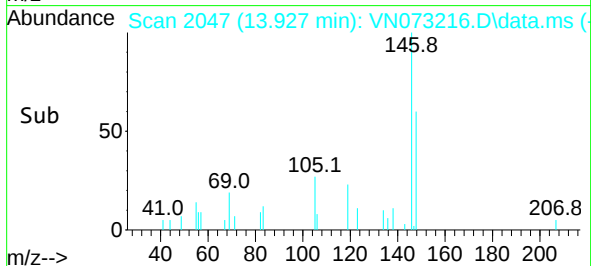
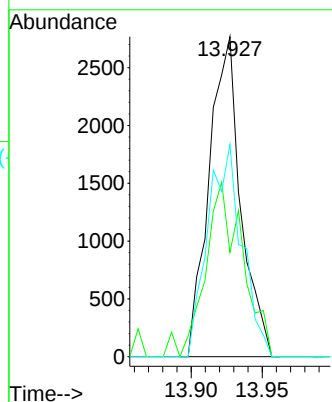
Tgt Ion:146 Resp: 4299

Ion Ratio Lower Upper

146 100

111 64.2 20.9 62.8#

148 71.3 32.1 96.3



#95

Naphthalene

Concen: 0.289 ug/l

RT: 15.433 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VN073216.D

Acq: 28 Jun 2022 23:04

Tgt Ion:128 Resp: 5989

Ion Ratio Lower Upper

128 100

127 7.3 10.3 15.5#

129 8.7 8.6 13.0

