

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083022\
 Data File : VN074193.D
 Acq On : 31 Aug 2022 03:01
 Operator : JC\MD
 Sample : N4420-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-01-02-03-0-20

Quant Time: Aug 31 07:07:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083022W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 31 07:02:40 2022
 Response via : Initial Calibration

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

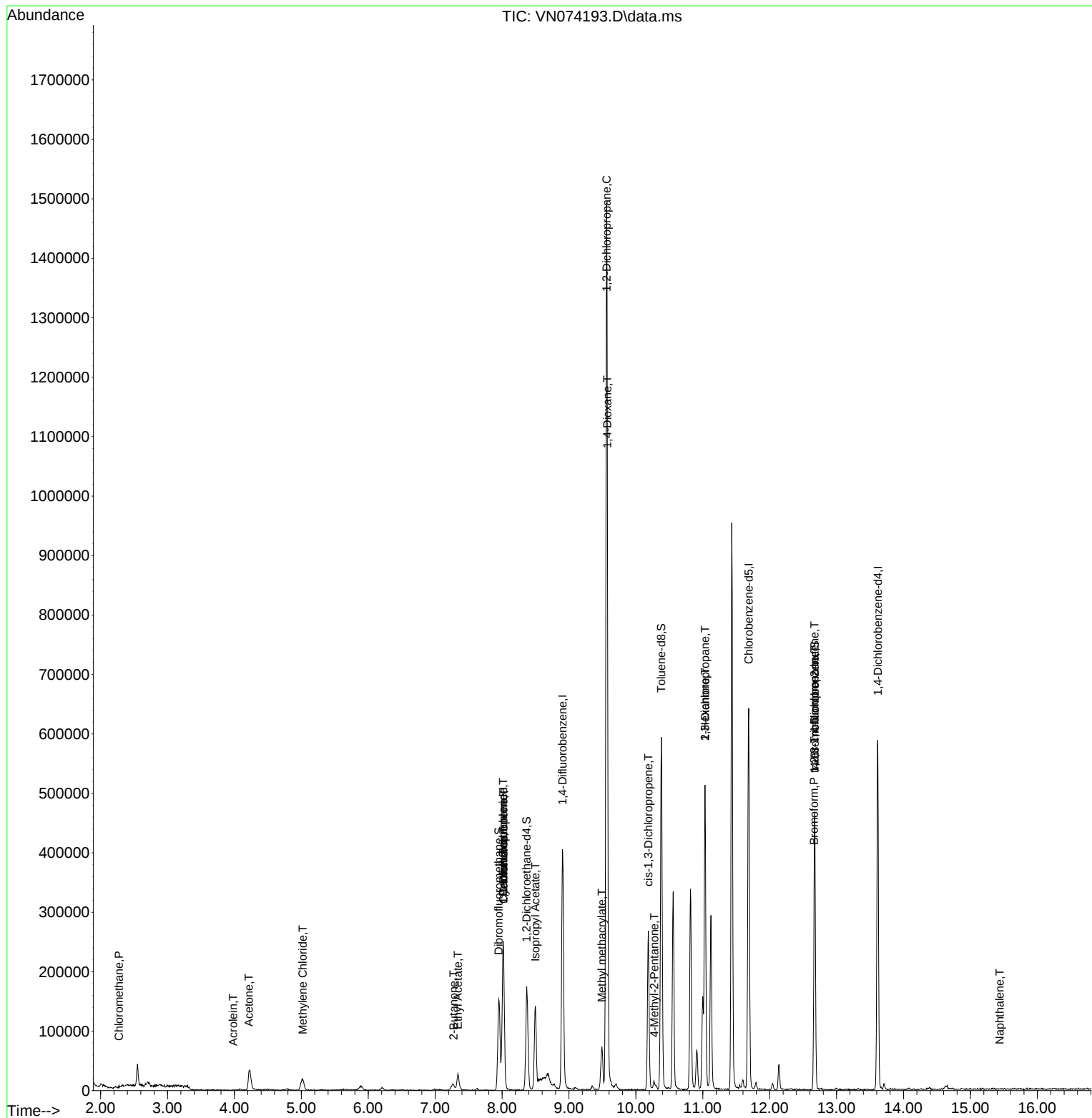
Internal Standards						
1) Pentafluorobenzene	8.016	168	172636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	327440	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	344226	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	143212	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	129938	48.520	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.040%		
35) Dibromofluoromethane	7.951	113	111233	52.204	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.400%		
50) Toluene-d8	10.380	98	379683	45.249	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.500%		
62) 4-Bromofluorobenzene	12.674	95	143261	56.142	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	112.280%		
Target Compounds					Qvalue	
3) Chloromethane	2.275	50	613	0.244	ug/l #	43
6) Chloroethane	2.904	64	270	Below Cal	#	42
11) Tert butyl alcohol	5.298	59	330	Below Cal	#	72
13) Acrolein	3.981	56	323	0.546	ug/l #	40
16) Acetone	4.216	43	62357	34.846	ug/l	97
18) Methyl Acetate	4.787	43	2857	Below Cal		94
20) Methylene Chloride	5.022	84	13744	3.683	ug/l #	86
25) 2-Butanone	7.275	43	16989	5.935	ug/l #	69
28) Bromochloromethane	7.822	49	53	Below Cal	#	8
31) Cyclohexane	8.022	56	5504	1.244	ug/l #	26
36) 1,1-Dichloropropene	8.022	75	16787	4.856	ug/l #	53
37) Ethyl Acetate	7.339	43	38568	6.671	ug/l	98
38) Carbon Tetrachloride	8.016	117	20884	6.650	ug/l #	17
43) Isopropyl Acetate	8.498	43	168396	21.666	ug/l #	83
45) 1,2-Dichloropropane	9.563	63	1667	0.569	ug/l	97
48) Methyl methacrylate	9.492	41	5747	1.557	ug/l #	39
49) 1,4-Dioxane	9.575	88	65	0.816	ug/l #	1
51) 4-Methyl-2-Pentanone	10.275	43	8104	1.437	ug/l	96
54) cis-1,3-Dichloropropene	10.186	75	41847	10.277	ug/l #	72
57) 1,3-Dichloropropane	11.033	76	5246	1.091	ug/l #	42
59) 2-Hexanone	11.033	43	62356	14.567	ug/l #	52
71) Bromoform	12.663	173	2032	0.871	ug/l #	1
76) 1,2,3-Trichloropropane	12.669	75	82425	22.997	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	82425	59.740	ug/l #	10
95) Naphthalene	15.439	128	571	1.202	ug/l #	85

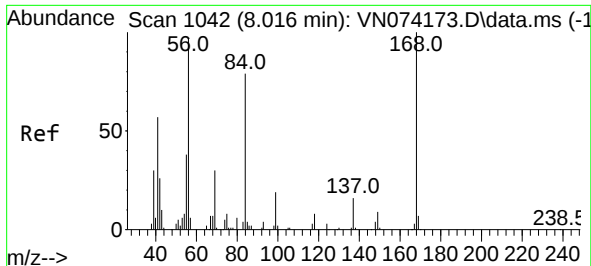
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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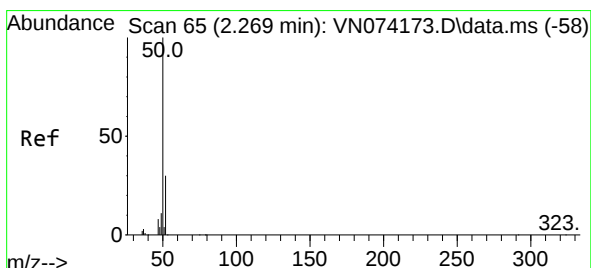
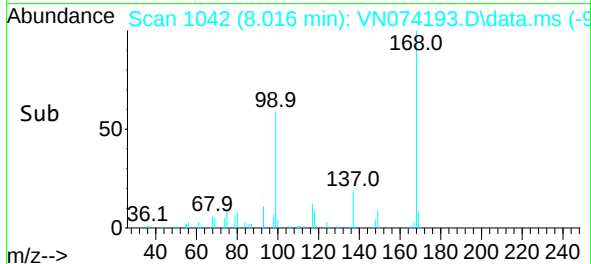
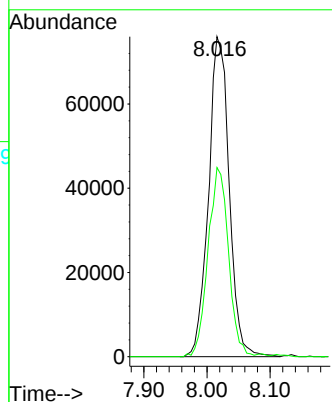
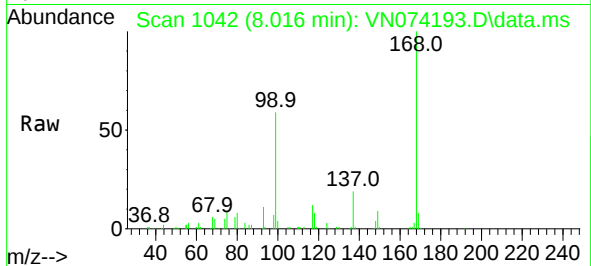




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

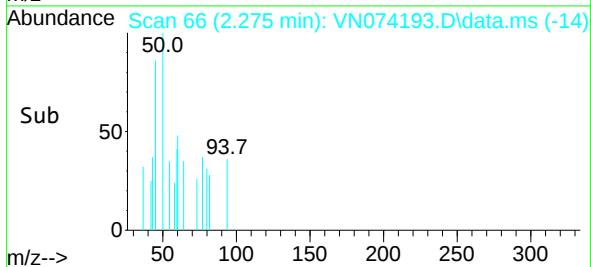
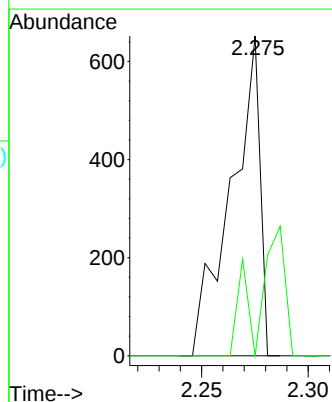
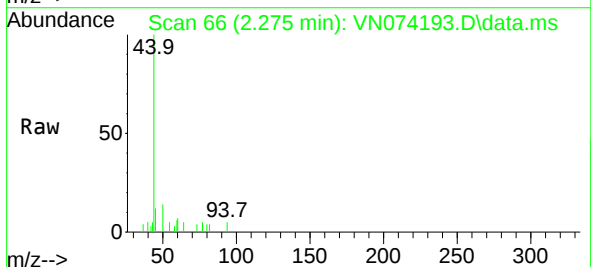
Instrument :
MSVOA_N
ClientSampleId :
TR-01-02-03-0-20

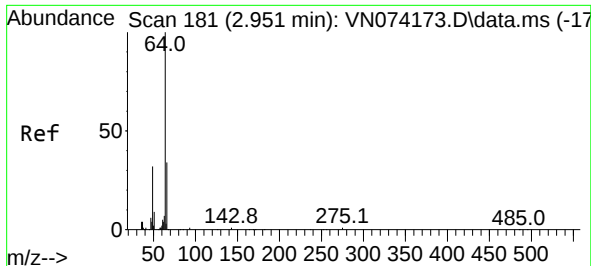
Tgt Ion:168 Resp: 172636
Ion Ratio Lower Upper
168 100
99 59.1 42.3 63.5



#3
Chloromethane
Concen: 0.244 ug/l
RT: 2.275 min Scan# 66
Delta R.T. 0.006 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 50 Resp: 613
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

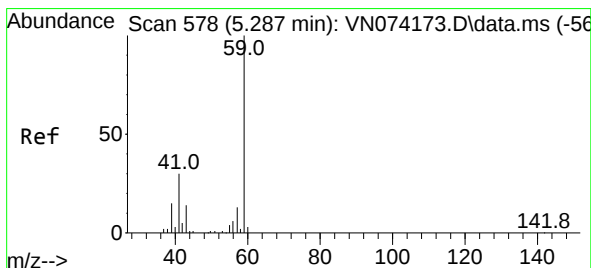
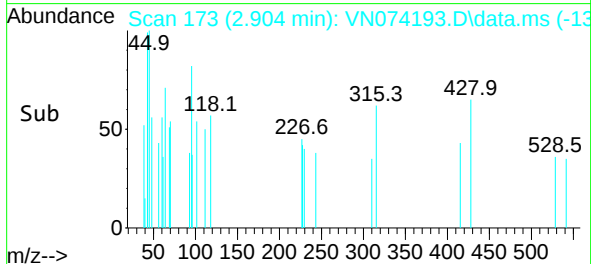
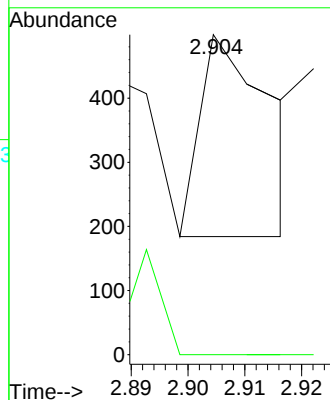
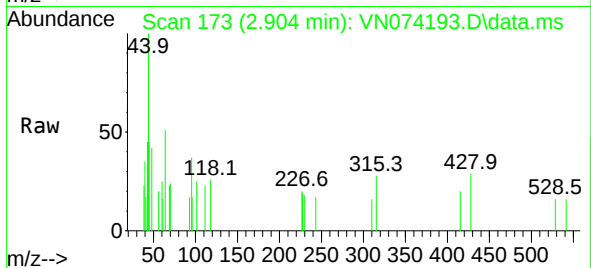




#6
Chloroethane
Concen: Below Cal
RT: 2.904 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

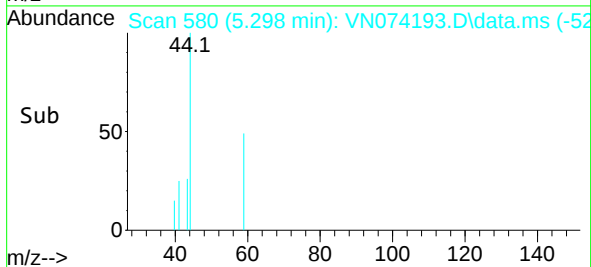
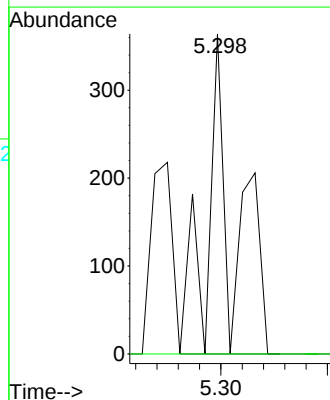
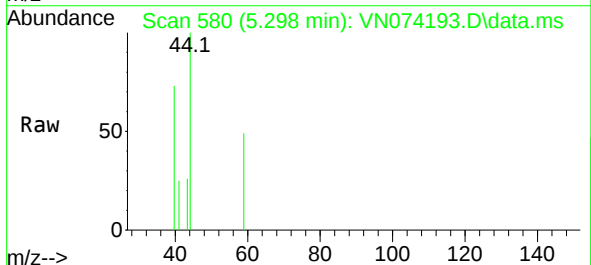
Instrument :
MSVOA_N
ClientSampleId :
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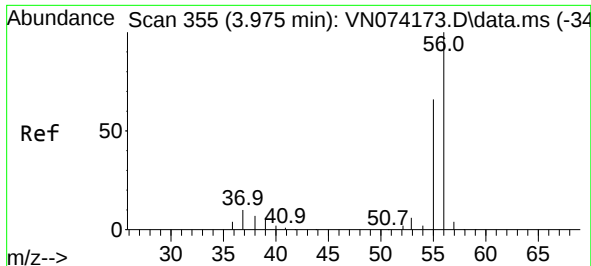
Tgt Ion: 64 Resp: 270
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.298 min Scan# 580
Delta R.T. 0.011 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 59 Resp: 330
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

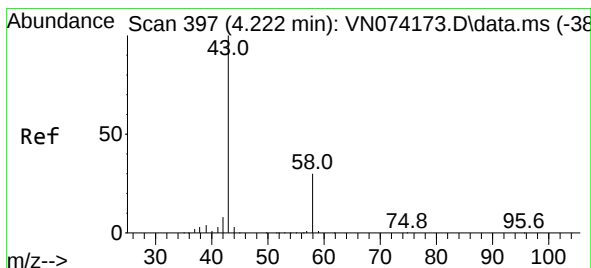
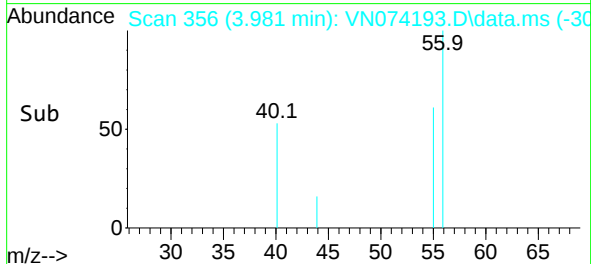
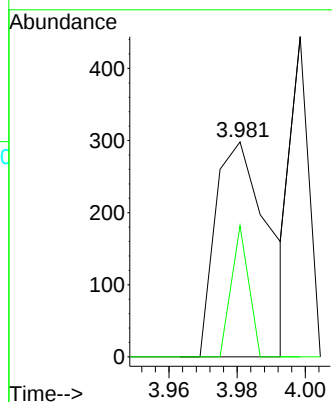
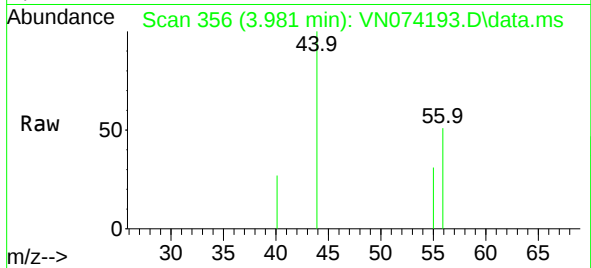




#13
Acrolein
Concen: 0.546 ug/l
RT: 3.981 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

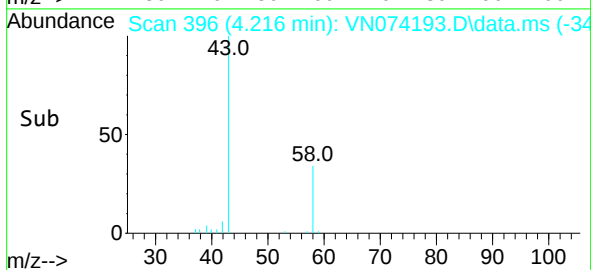
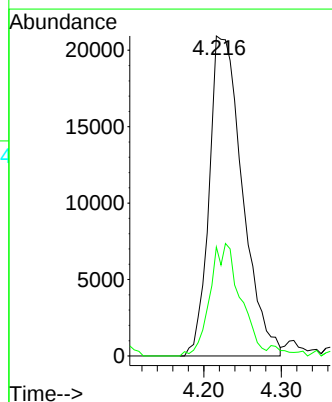
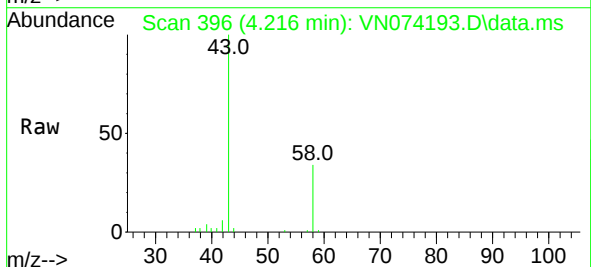
Instrument :
MSVOA_N
ClientSampleId :
TR-01-02-03-0-20

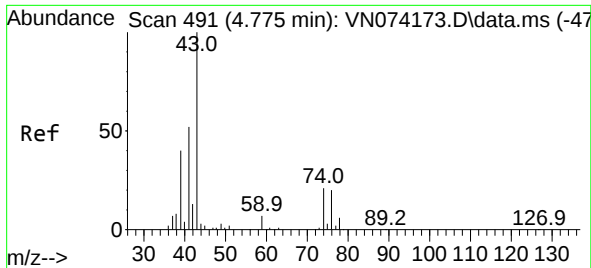
Tgt Ion: 56 Resp: 323
Ion Ratio Lower Upper
56 100
55 19.8 54.8 82.2#



#16
Acetone
Concen: 34.846 ug/l
RT: 4.216 min Scan# 396
Delta R.T. -0.006 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 43 Resp: 62357
Ion Ratio Lower Upper
43 100
58 34.0 26.0 39.0

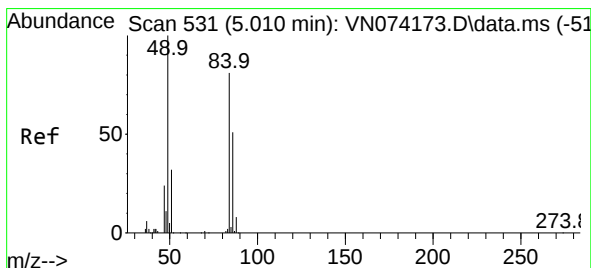
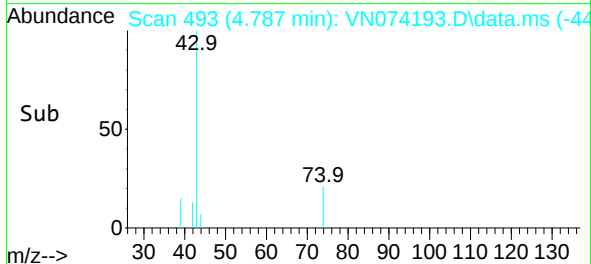
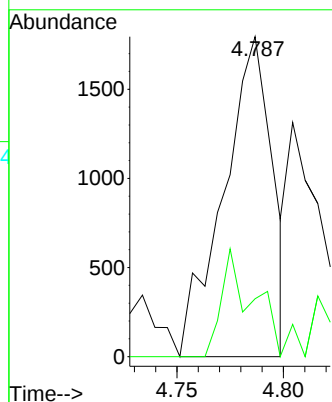
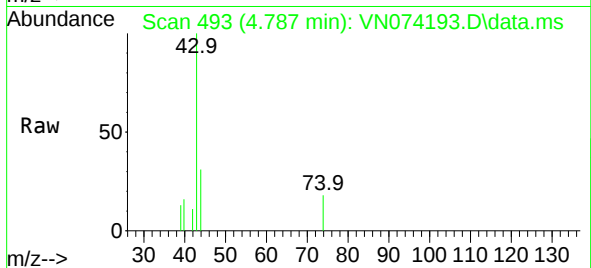




#18
Methyl Acetate
Concen: Below Cal
RT: 4.787 min Scan# 491
Delta R.T. 0.012 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

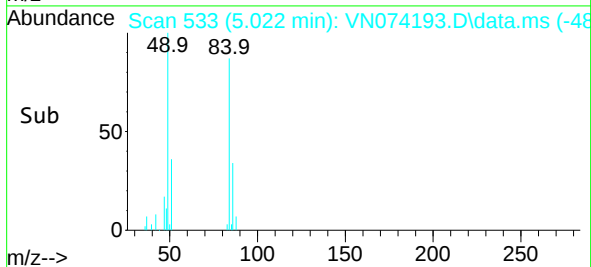
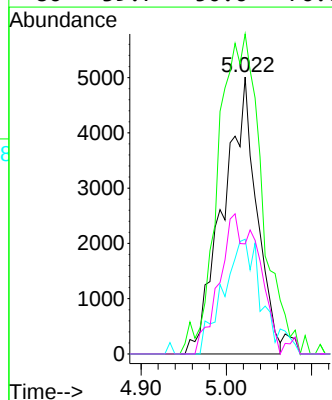
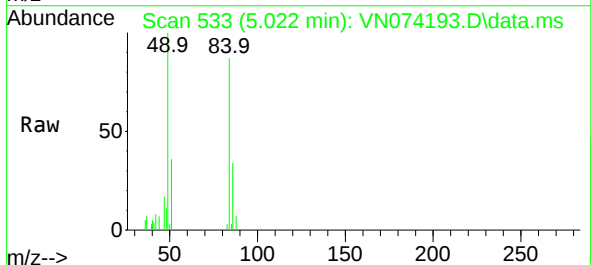
Instrument :
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TR-01-02-03-0-20

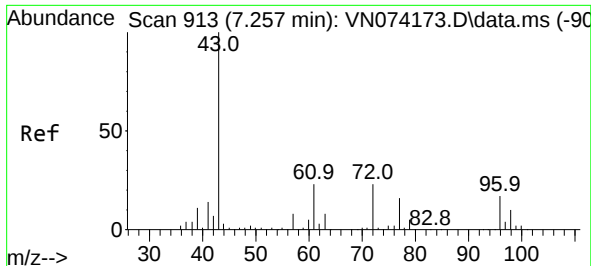
Tgt Ion: 43 Resp: 2857
Ion Ratio Lower Upper
43 100
74 23.8 21.6 32.4



#20
Methylene Chloride
Concen: 3.683 ug/l
RT: 5.022 min Scan# 533
Delta R.T. 0.012 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 84 Resp: 13744
Ion Ratio Lower Upper
84 100
49 115.6 88.3 132.5
51 41.4 28.2 42.2
86 39.7 50.6 76.0#

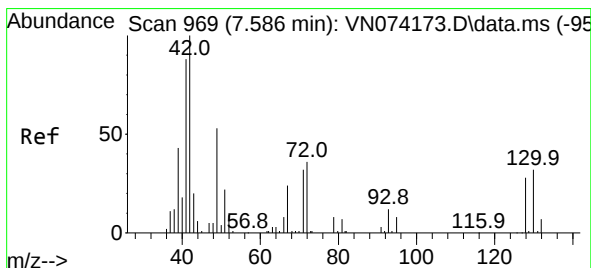
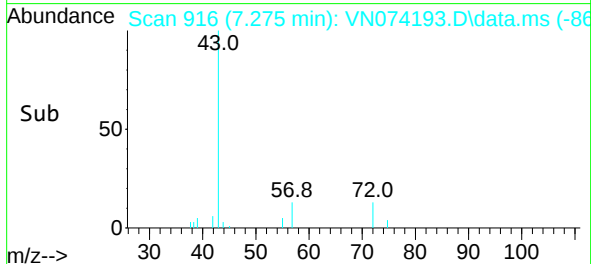
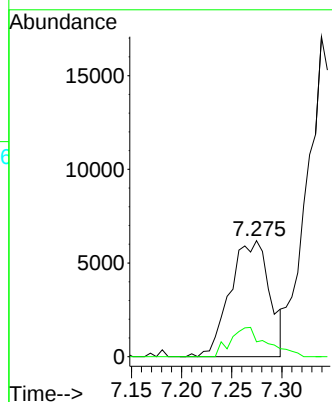
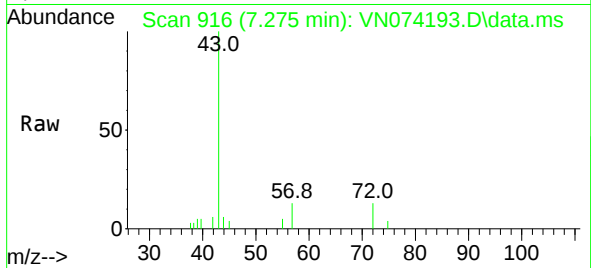




#25
2-Butanone
Concen: 5.935 ug/l
RT: 7.275 min Scan# 913
Delta R.T. 0.018 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

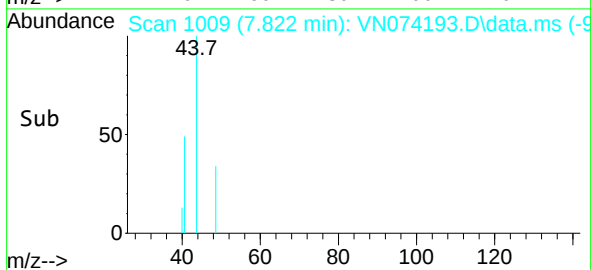
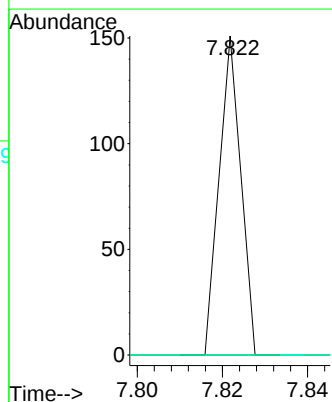
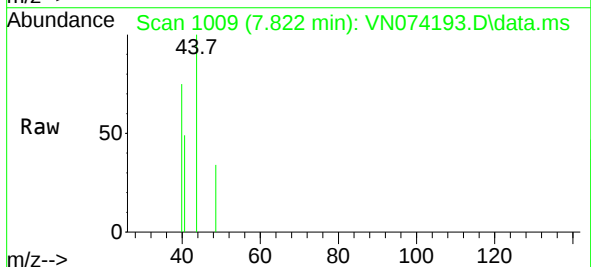
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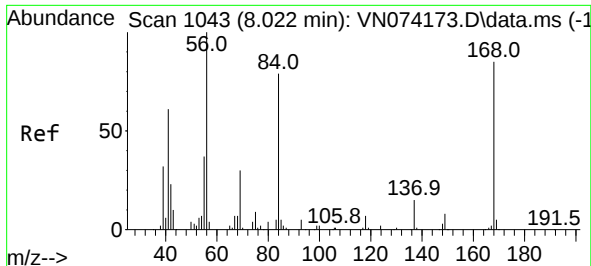
Tgt Ion: 43 Resp: 16989
Ion Ratio Lower Upper
43 100
72 12.9 23.7 35.5#



#28
Bromochloromethane
Concen: Below Cal
RT: 7.822 min Scan# 1009
Delta R.T. 0.236 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 49 Resp: 53
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 0.0 69.7 104.5#

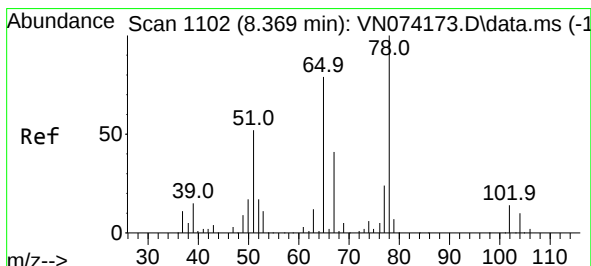
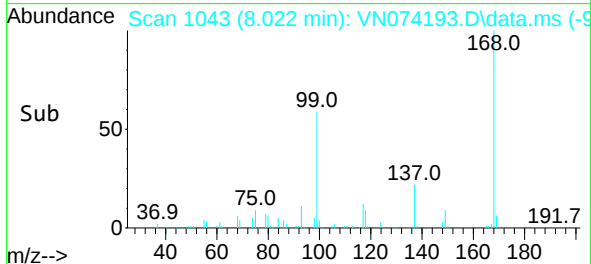
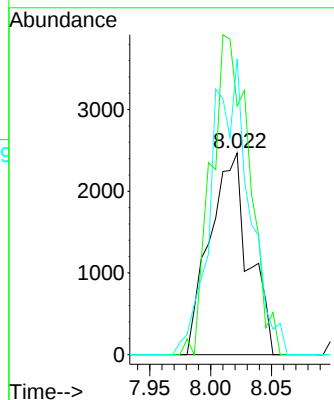
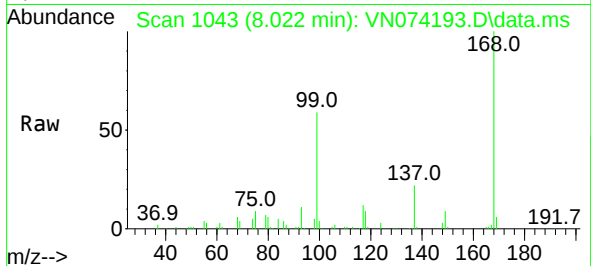




#31
Cyclohexane
Concen: 1.244 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

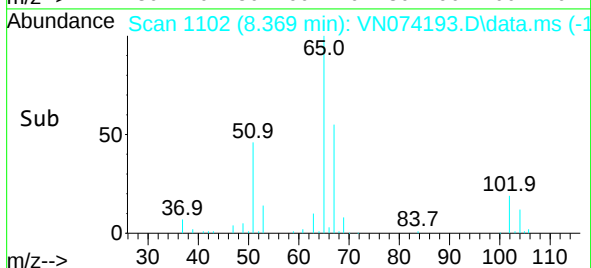
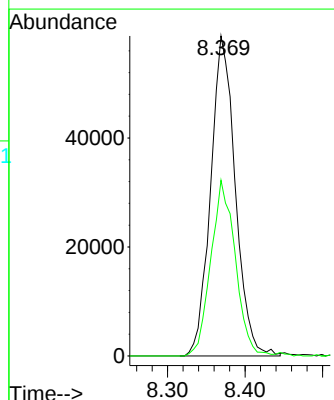
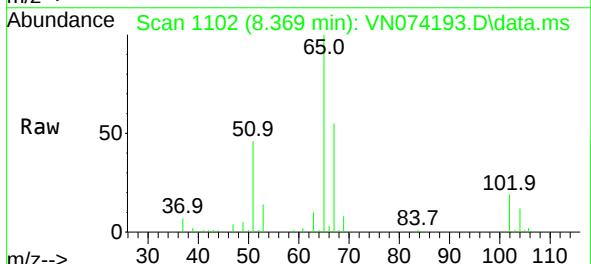
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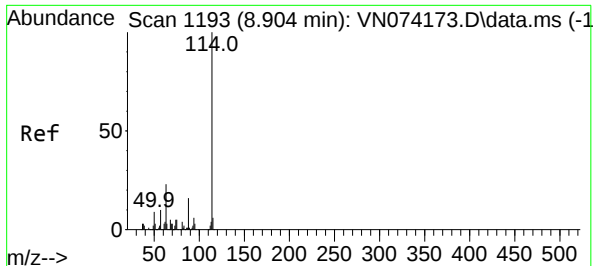
Tgt Ion: 56 Resp: 5504
Ion Ratio Lower Upper
56 100
69 123.3 27.8 41.8#
84 140.6 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 48.520 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 65 Resp: 129938
Ion Ratio Lower Upper
65 100
67 54.3 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

Instrument :

MSVOA_N

ClientSampleId :

TR-01-02-03-0-20

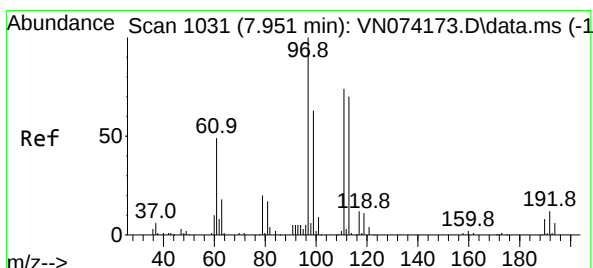
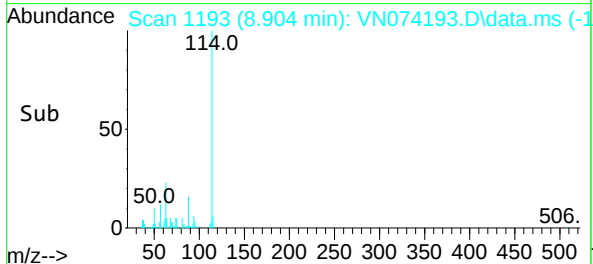
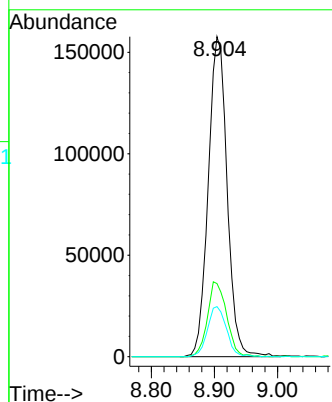
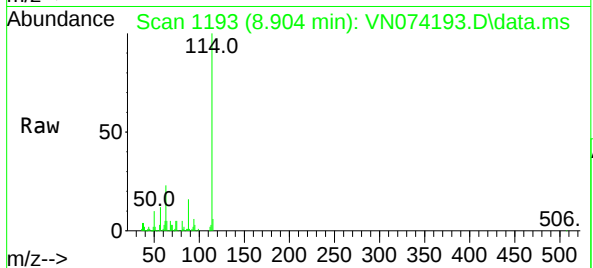
Tgt Ion:114 Resp: 327440

Ion Ratio Lower Upper

114 100

63 22.8 0.0 40.0

88 15.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.204 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

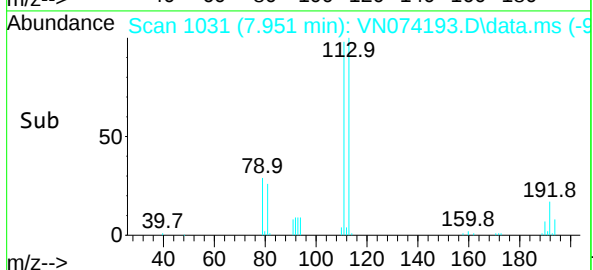
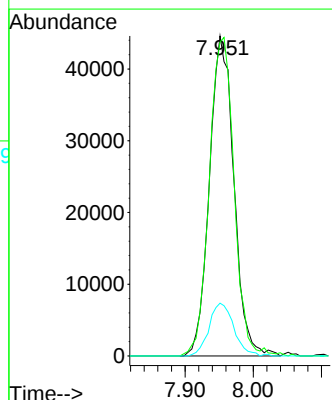
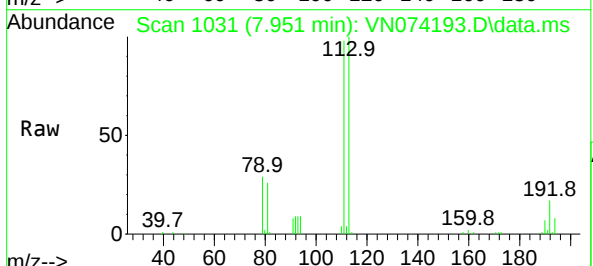
Tgt Ion:113 Resp: 111233

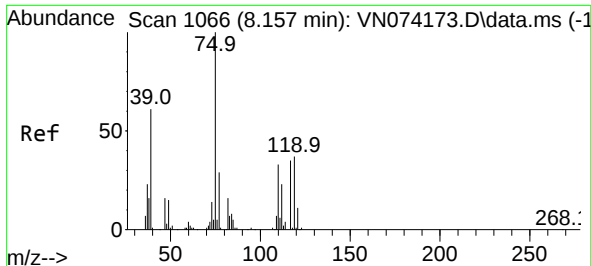
Ion Ratio Lower Upper

113 100

111 101.0 81.4 122.0

192 16.8 17.0 25.6#





#36

1,1-Dichloropropene

Concen: 4.856 ug/l

RT: 8.022 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

Instrument :

MSVOA_N

ClientSampleId :

TR-01-02-03-0-20

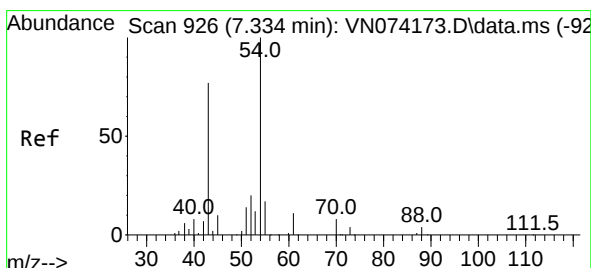
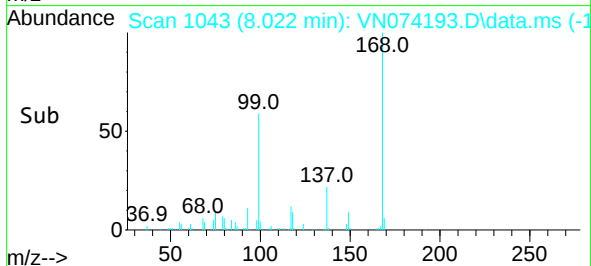
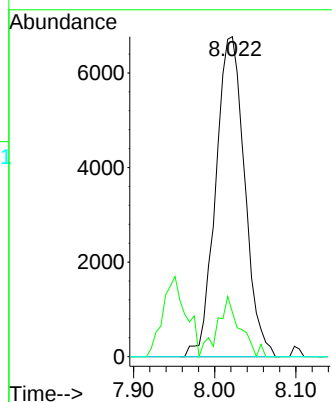
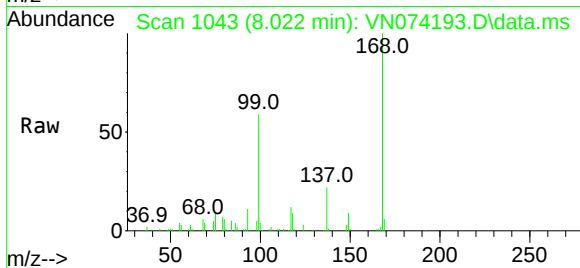
Tgt Ion: 75 Resp: 16787

Ion Ratio Lower Upper

75 100

110 14.0 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 6.671 ug/l

RT: 7.339 min Scan# 927

Delta R.T. 0.006 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

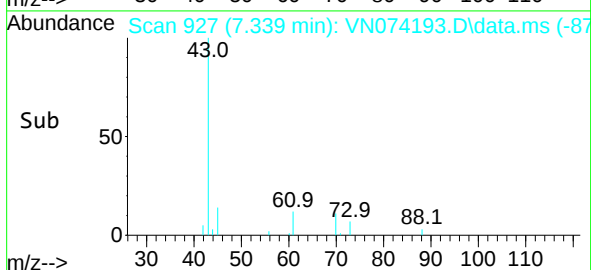
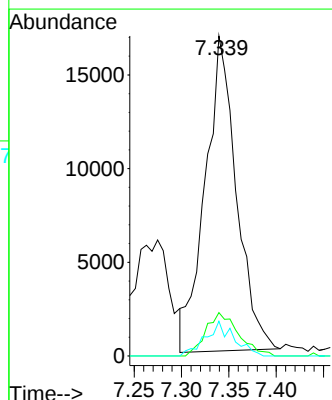
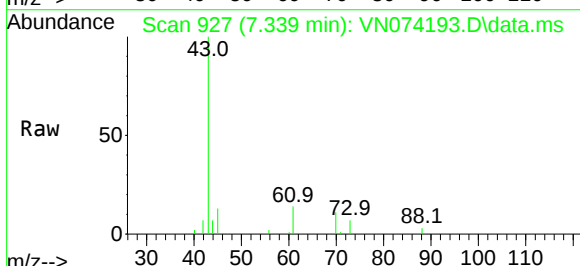
Tgt Ion: 43 Resp: 38568

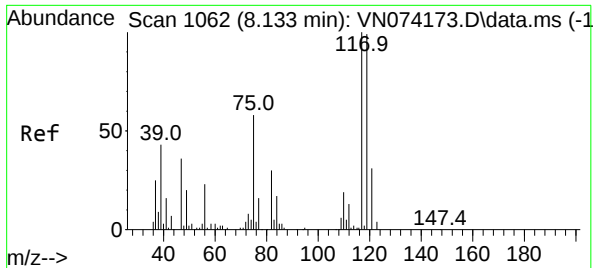
Ion Ratio Lower Upper

43 100

61 14.4 11.8 17.6

70 10.0 9.3 13.9

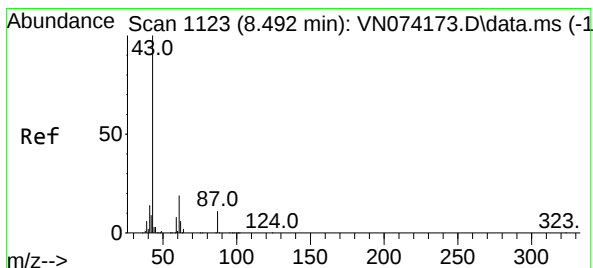
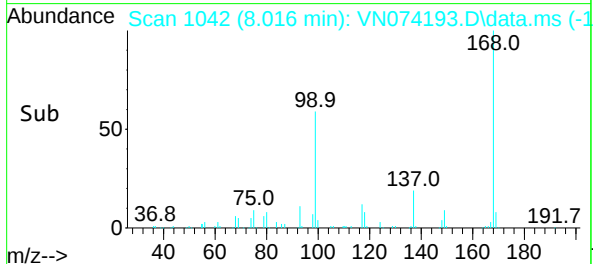
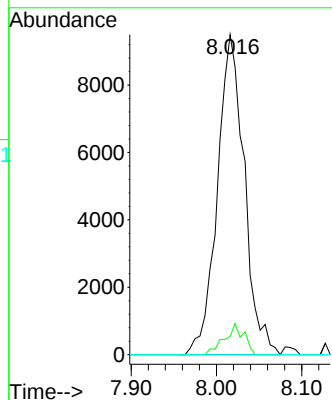
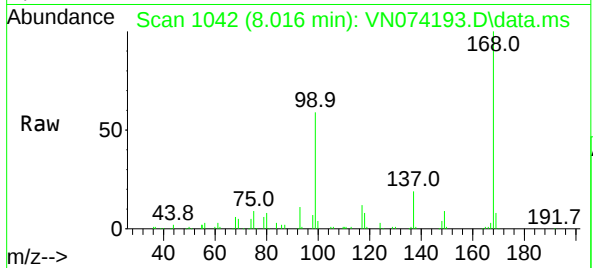




#38
Carbon Tetrachloride
Concen: 6.650 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

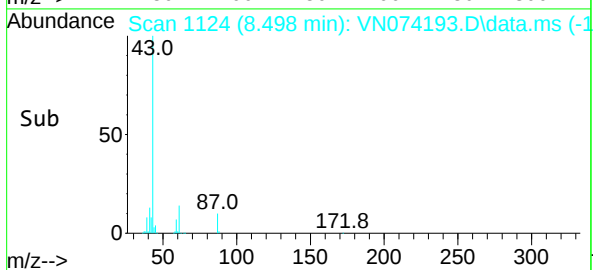
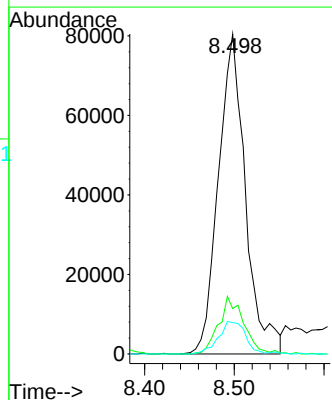
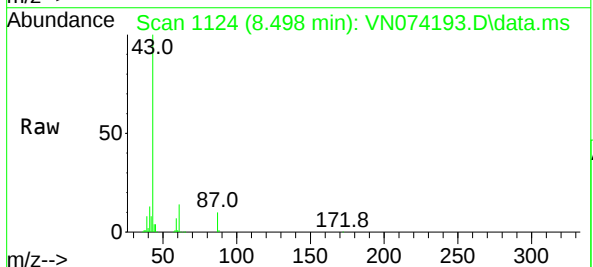
Instrument :
MSVOA_N
ClientSampleId :
TR-01-02-03-0-20

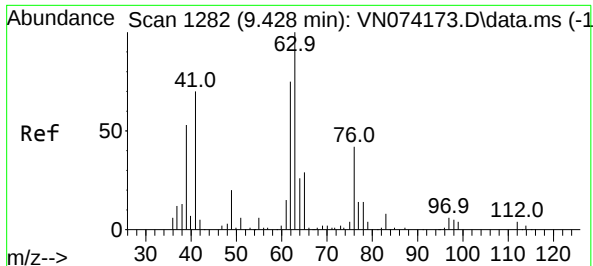
Tgt Ion:117 Resp: 20884
Ion Ratio Lower Upper
117 100
119 5.7 75.8 113.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 21.666 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 43 Resp: 168396
Ion Ratio Lower Upper
43 100
61 16.7 21.9 32.9#
87 10.1 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.569 ug/l

RT: 9.563 min Scan# 11

Delta R.T. 0.135 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

Instrument :

MSVOA_N

ClientSampleId :

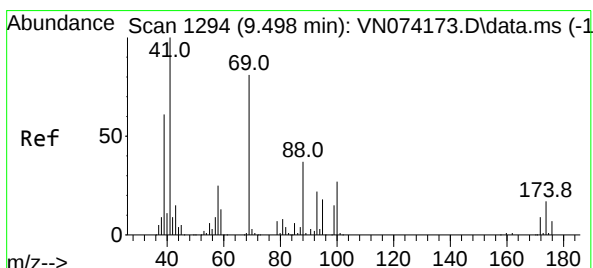
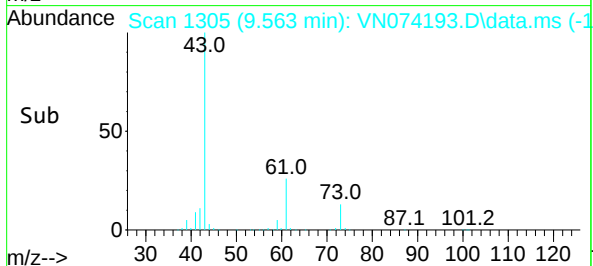
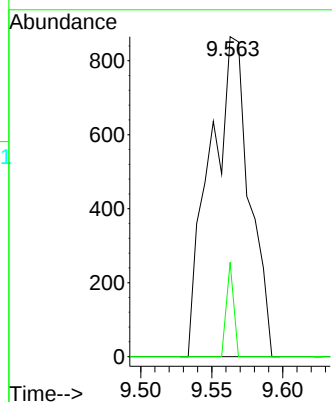
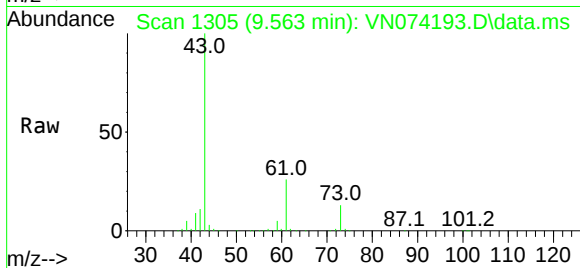
TR-01-02-03-0-20

Tgt Ion: 63 Resp: 1667

Ion Ratio Lower Upper

63 100

65 29.5 24.9 37.3



#48

Methyl methacrylate

Concen: 1.557 ug/l

RT: 9.492 min Scan# 1293

Delta R.T. -0.006 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

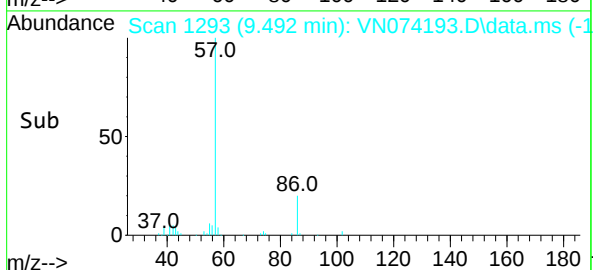
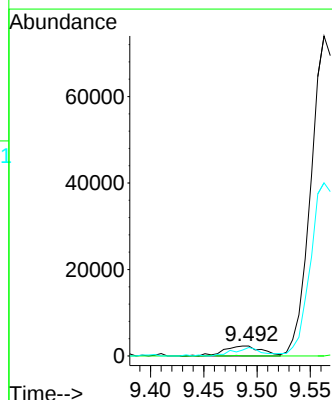
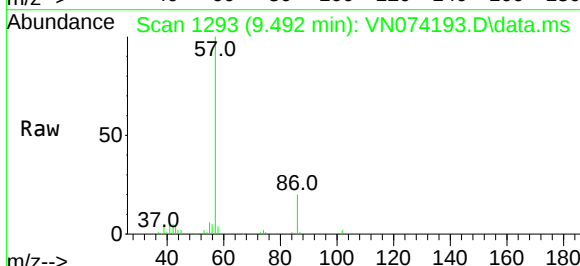
Tgt Ion: 41 Resp: 5747

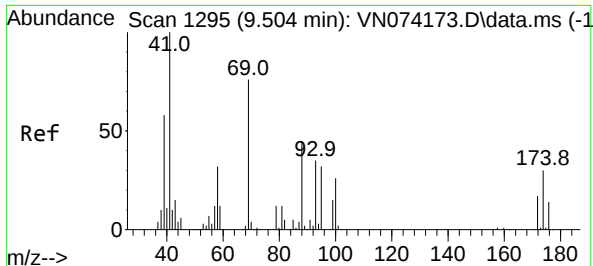
Ion Ratio Lower Upper

41 100

69 1.0 74.7 112.1#

39 60.2 45.6 68.4

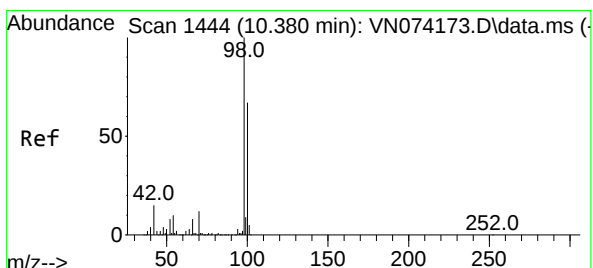
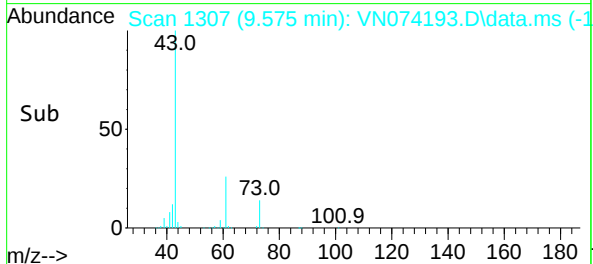
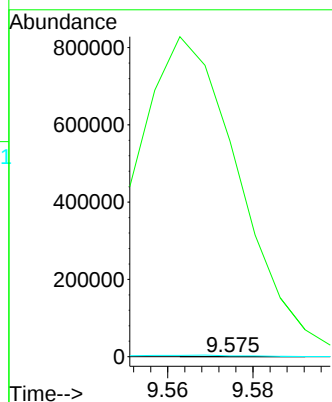
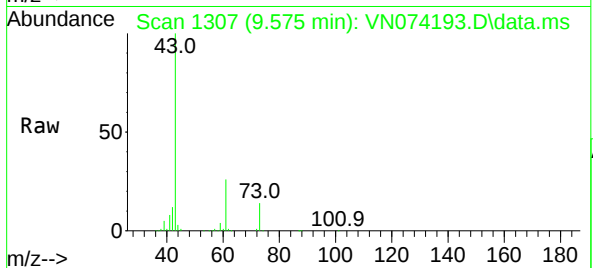




#49
1,4-Dioxane
Concen: 0.816 ug/l
RT: 9.575 min Scan# 11
Delta R.T. 0.071 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

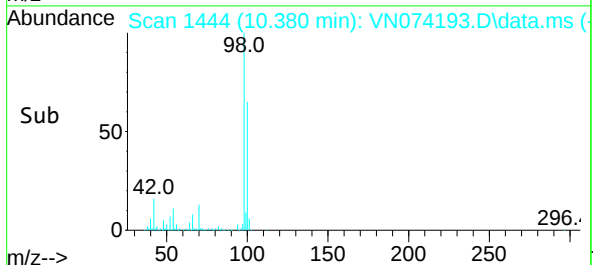
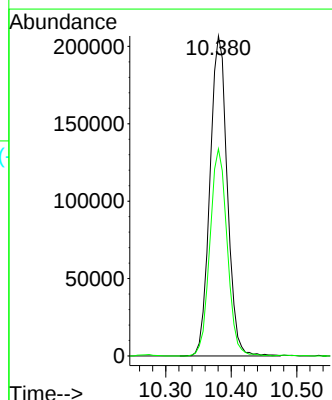
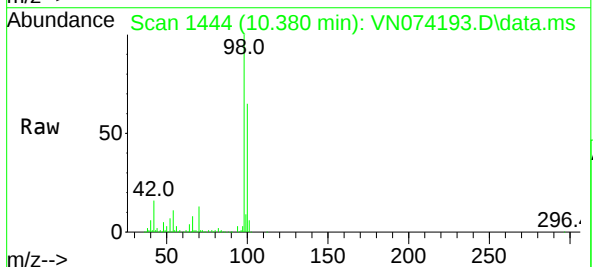
Instrument :
MSVOA_N
ClientSampleId :
TR-01-02-03-0-20

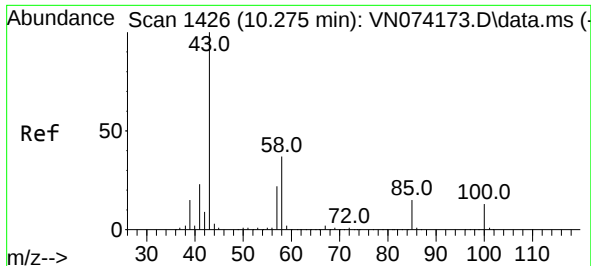
Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 2301950.8 20.2 30.4#
58 12069.2 54.2 81.4#



#50
Toluene-d8
Concen: 45.249 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 98 Resp: 379683
Ion Ratio Lower Upper
98 100
100 64.4 52.6 78.8

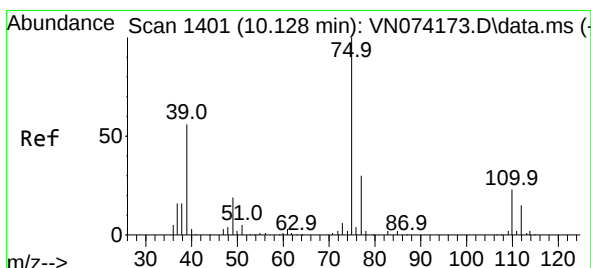
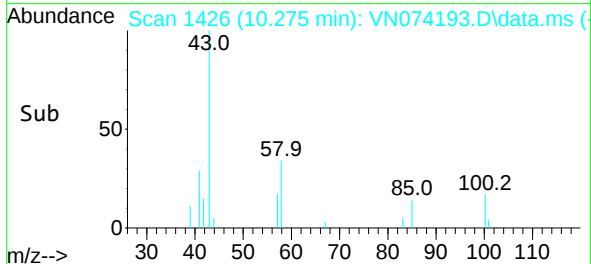
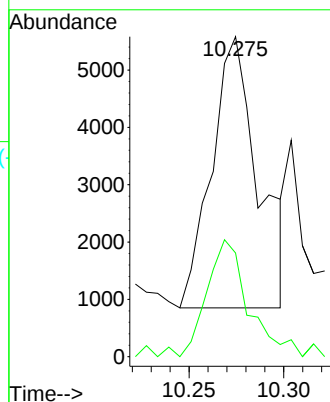
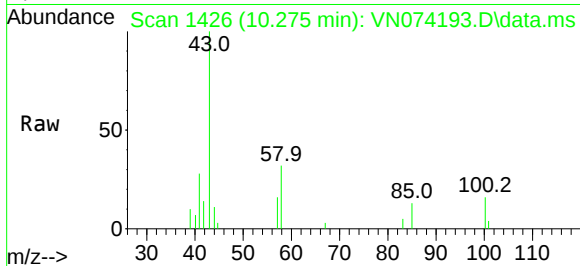




#51
4-Methyl-2-Pentanone
Concen: 1.437 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. 0.000 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

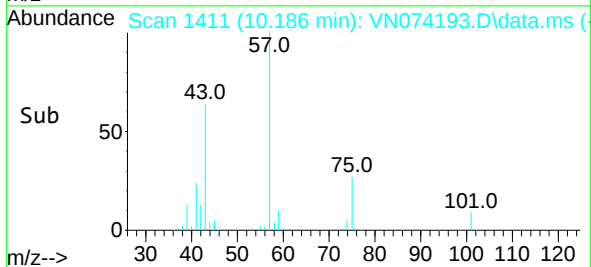
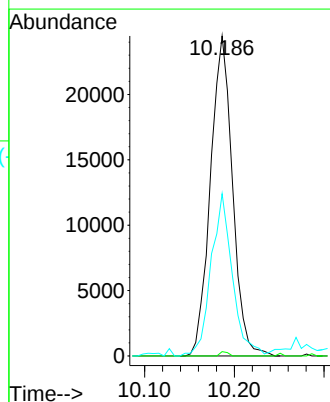
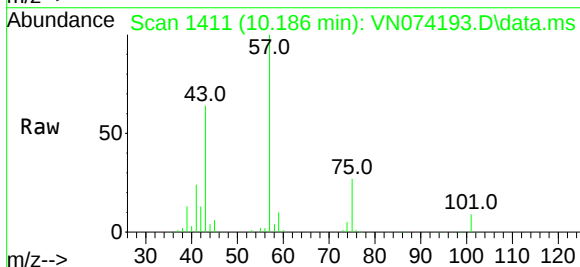
Instrument :
MSVOA_N
ClientSampleId :
TR-01-02-03-0-20

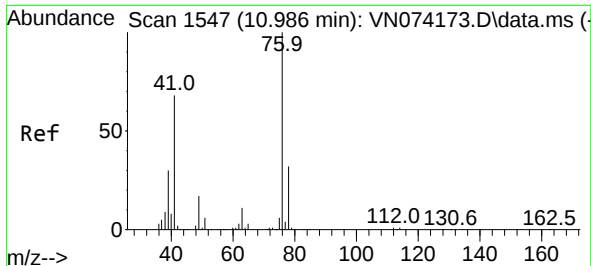
Tgt Ion: 43 Resp: 8104
Ion Ratio Lower Upper
43 100
58 39.9 34.1 51.1



#54
cis-1,3-Dichloropropene
Concen: 10.277 ug/l
RT: 10.186 min Scan# 1411
Delta R.T. 0.059 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion: 75 Resp: 41847
Ion Ratio Lower Upper
75 100
77 1.3 25.2 37.8#
39 50.7 35.7 53.5





#57

1,3-Dichloropropane

Concen: 1.091 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.047 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

Instrument :

MSVOA_N

ClientSampleId :

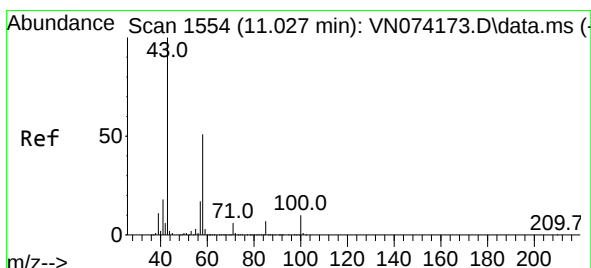
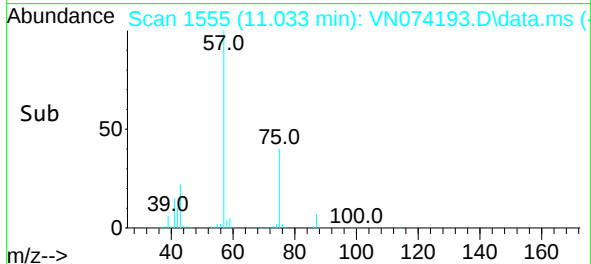
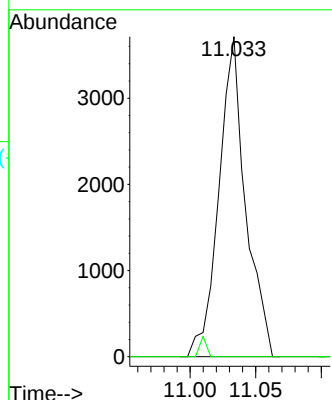
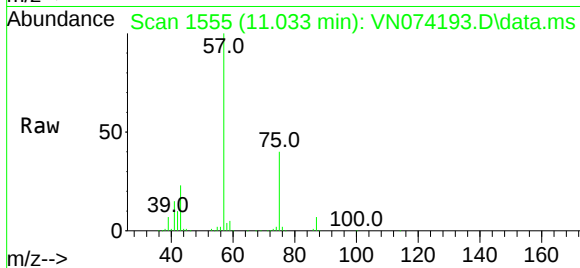
TR-01-02-03-0-20

Tgt Ion: 76 Resp: 5246

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 14.567 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN074193.D

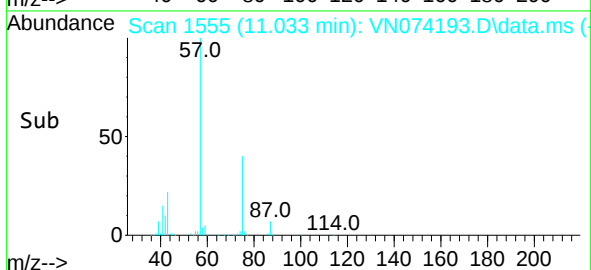
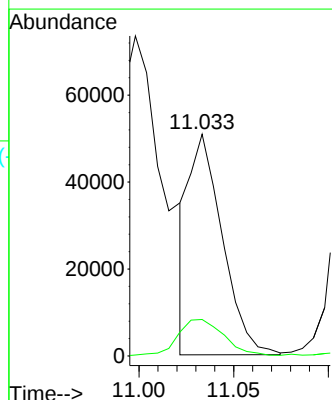
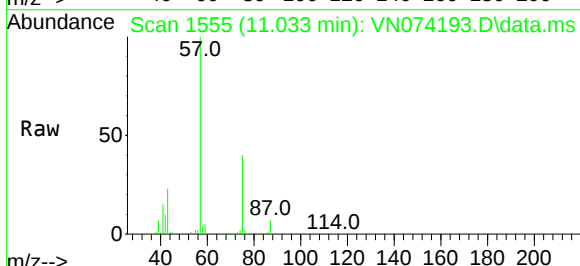
Acq: 31 Aug 2022 03:01

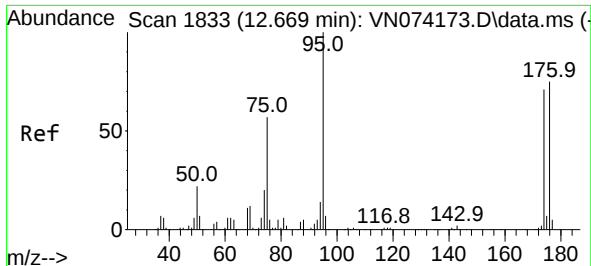
Tgt Ion: 43 Resp: 62356

Ion Ratio Lower Upper

43 100

58 23.1 29.7 89.1#





#62

4-Bromofluorobenzene

Concen: 56.142 ug/l

RT: 12.674 min Scan# 1833

Delta R.T. 0.006 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

Instrument :

MSVOA_N

ClientSampleId :

TR-01-02-03-0-20

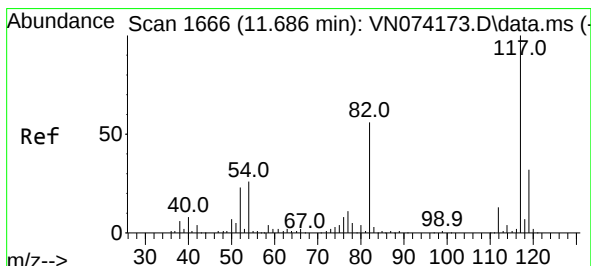
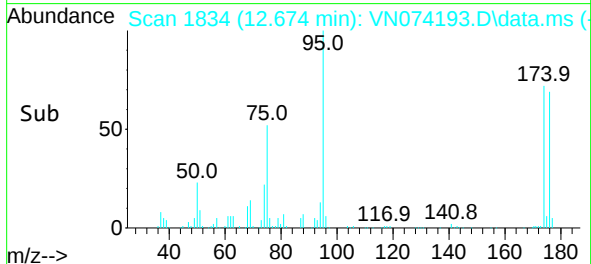
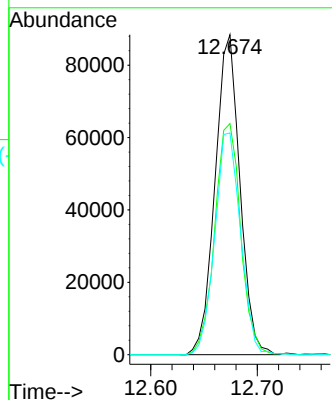
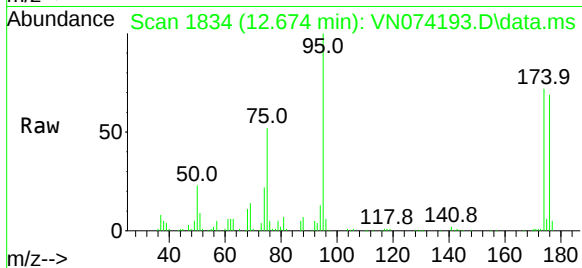
Tgt Ion: 95 Resp: 143261

Ion Ratio Lower Upper

95 100

174 75.5 0.0 167.6

176 72.0 0.0 163.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1666

Delta R.T. 0.000 min

Lab File: VN074193.D

Acq: 31 Aug 2022 03:01

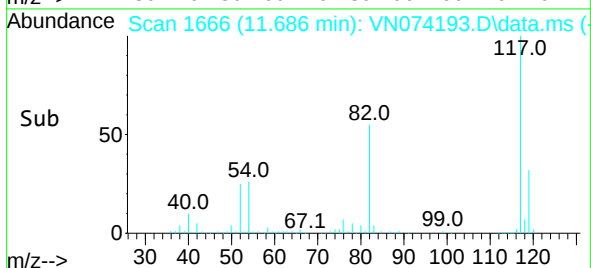
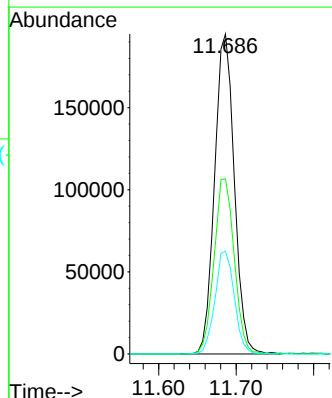
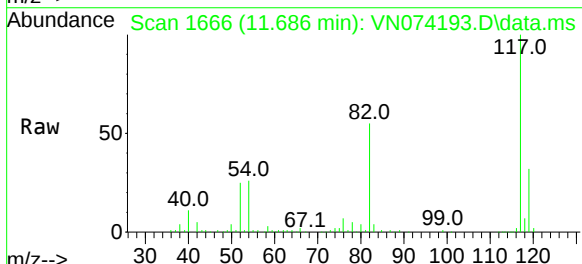
Tgt Ion: 117 Resp: 344226

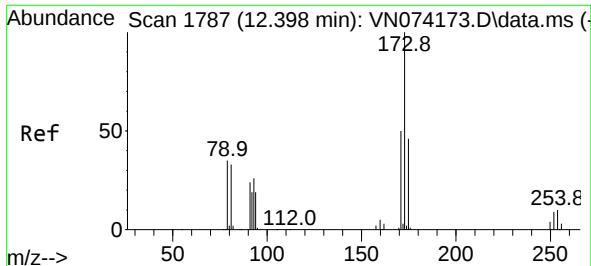
Ion Ratio Lower Upper

117 100

82 54.7 44.2 66.2

119 32.1 25.4 38.0

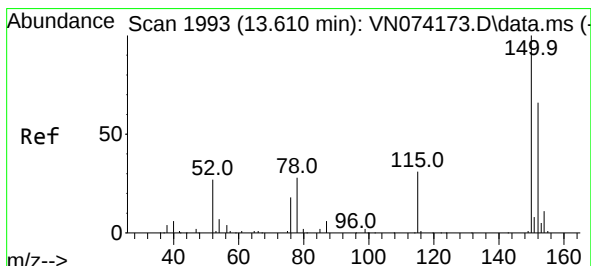
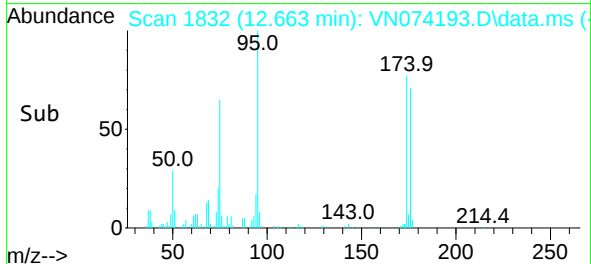
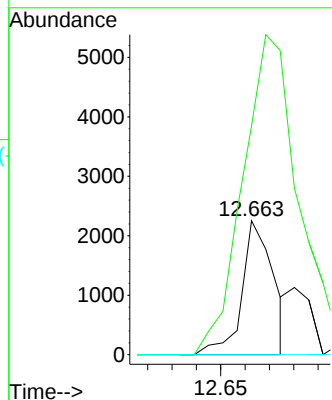
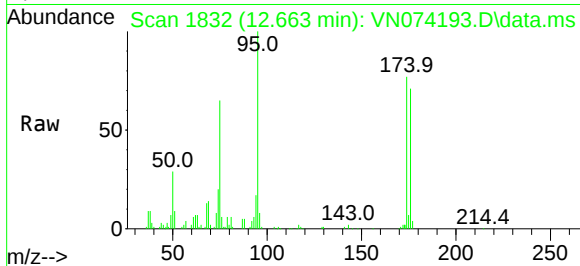




#71
Bromoform
Concen: 0.871 ug/l
RT: 12.663 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

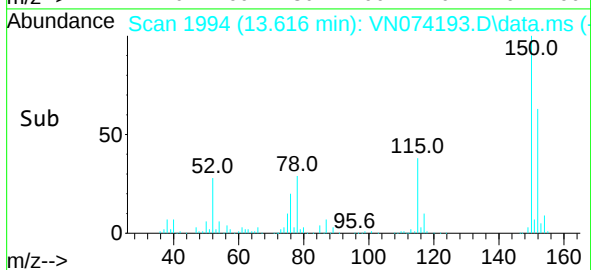
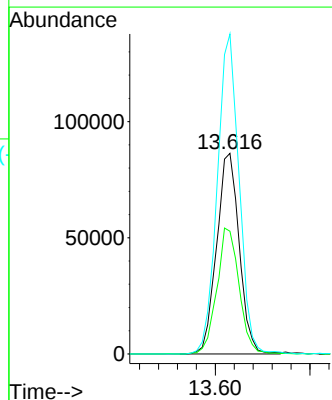
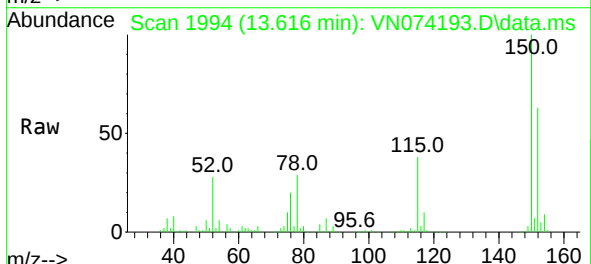
Instrument :
MSVOA_N
ClientSampleId :
TR-01-02-03-0-20

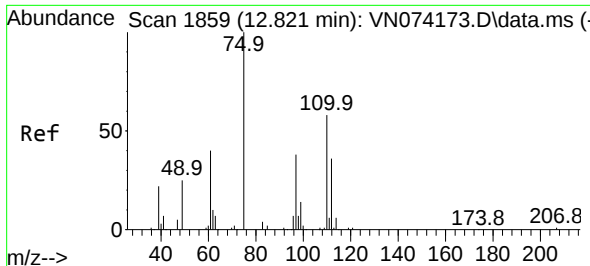
Tgt Ion:173 Resp: 2032
Ion Ratio Lower Upper
173 100
175 310.8 24.6 73.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

Tgt Ion:152 Resp: 143212
Ion Ratio Lower Upper
152 100
115 61.9 28.9 86.7
150 153.8 0.0 356.2

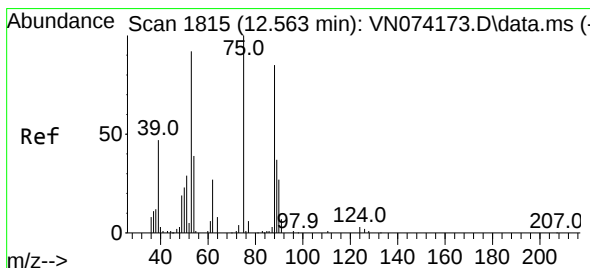
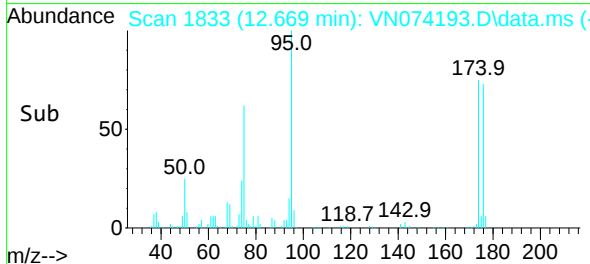
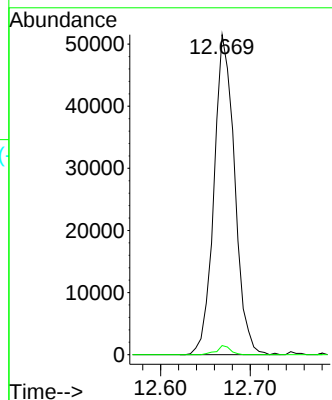
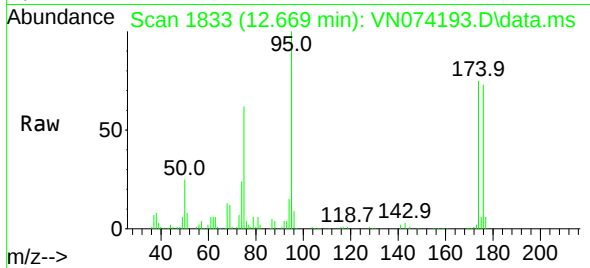




#76
1,2,3-Trichloropropane
Concen: 22.997 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.152 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

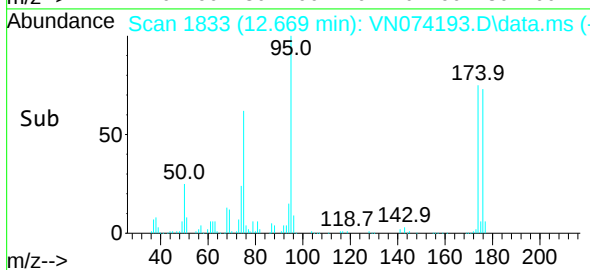
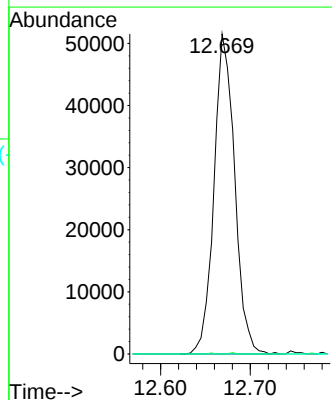
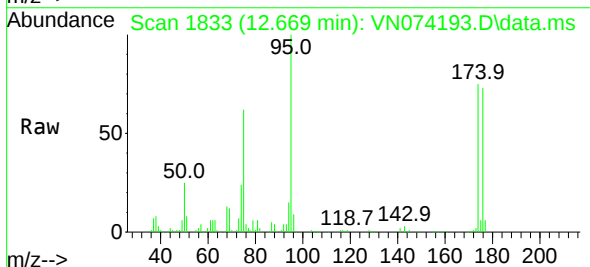
Instrument :
MSVOA_N
ClientSampleId :
TR-01-02-03-0-20

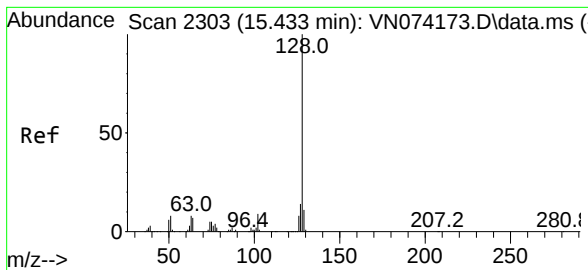
Tgt Ion: 75 Resp: 82425
Ion Ratio Lower Upper
75 100
77 1.9 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.740 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN074193.D
Acq: 31 Aug 2022 03:01

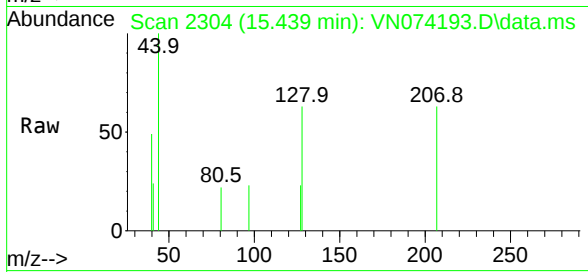
Tgt Ion: 75 Resp: 82425
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#





#95
 Naphthalene
 Concen: 1.202 ug/l
 RT: 15.439 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN074193.D
 Acq: 31 Aug 2022 03:01

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-01-02-03-0-20



Tgt Ion:	128	Resp:	571
Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.3	15.5
129	0.0	8.6	13.0#

