

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041222\
 Data File : VN071963.D
 Acq On : 12 Apr 2022 19:02
 Operator : JC\MD
 Sample : N2349-18
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-8D

Quant Time: Apr 13 04:47:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

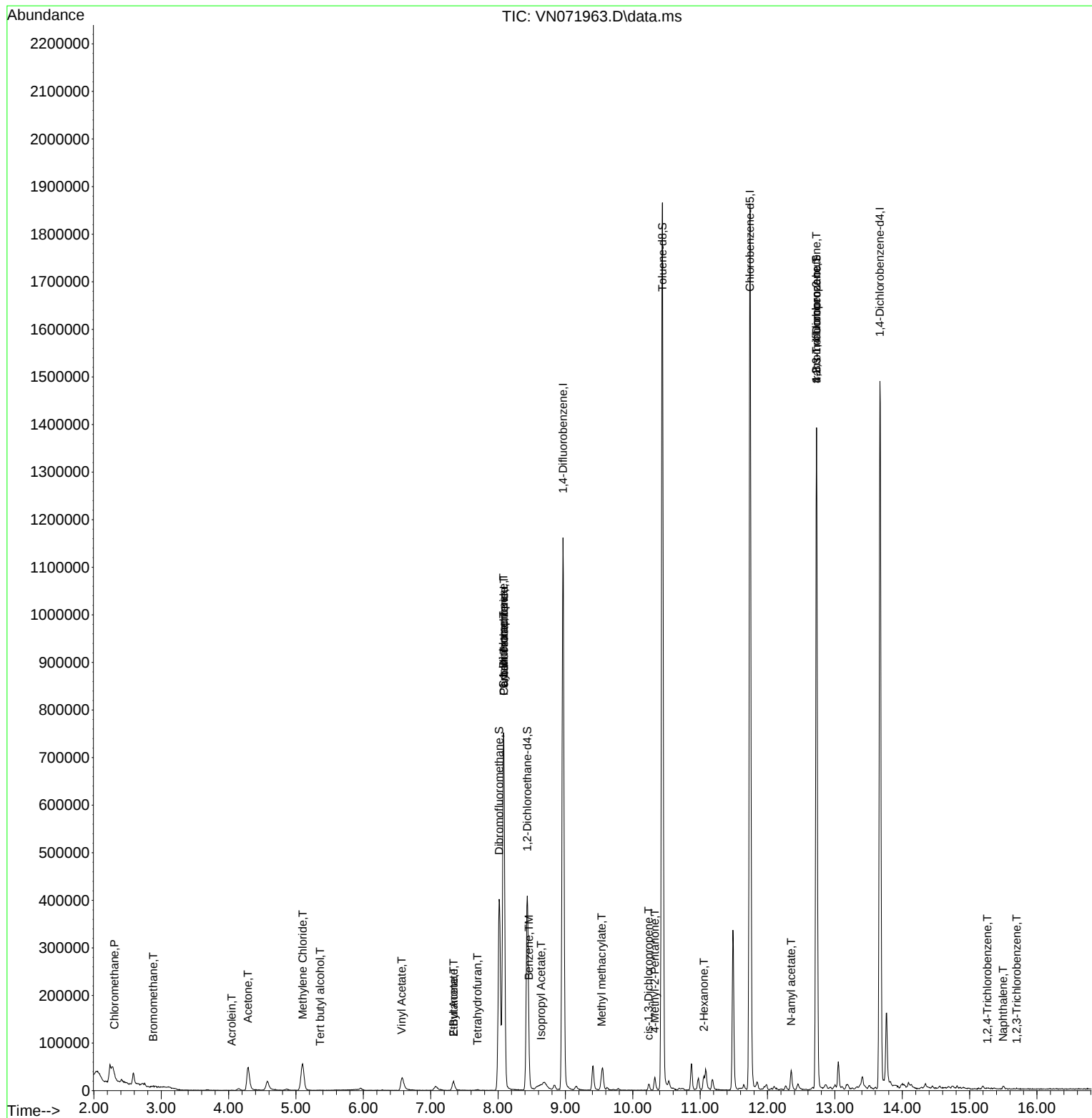
Internal Standards						
1) Pentafluorobenzene	8.086	168	638713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1075845	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1143720	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	457080	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	340773	46.735	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.460%
35) Dibromofluoromethane	8.016	113	305297	48.225	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.440%
50) Toluene-d8	10.439	98	1359559	52.498	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	105.000%
62) 4-Bromofluorobenzene	12.727	95	490839	58.603	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	117.200%
Target Compounds						
					Qvalue	
3) Chloromethane	2.304	50	3146	0.489	ug/l #	85
5) Bromomethane	2.881	94	1776	0.387	ug/l	84
11) Tert butyl alcohol	5.357	59	1050	0.887	ug/l #	72
13) Acrolein	4.046	56	372	0.258	ug/l #	68
16) Acetone	4.287	43	88181	28.298	ug/l	89
18) Methyl Acetate	4.863	43	5566	Below Cal	#	79
20) Methylene Chloride	5.098	84	48936	7.451	ug/l	97
23) Vinyl Acetate	6.569	43	4066	0.274	ug/l #	68
25) 2-Butanone	7.339	43	32362	7.204	ug/l	99
29) Tetrahydrofuran	7.692	42	1087	0.374	ug/l #	52
31) Cyclohexane	8.081	56	10568	1.066	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	42239	4.778	ug/l #	48
37) Ethyl Acetate	7.339	43	32362	3.344	ug/l #	67
38) Carbon Tetrachloride	8.086	117	57139	6.595	ug/l #	17
40) Benzene	8.457	78	5724	0.205	ug/l	94
43) Isopropyl Acetate	8.639	43	17594	1.093	ug/l #	53
48) Methyl methacrylate	9.539	41	18491	2.769	ug/l #	22
51) 4-Methyl-2-Pentanone	10.327	43	18172	1.964	ug/l	99
54) cis-1,3-Dichloropropene	10.233	75	2562	0.237	ug/l #	64
59) 2-Hexanone	11.057	43	19151	2.940	ug/l #	21
74) N-amyl acetate	12.351	43	25841	2.342	ug/l #	44
76) 1,2,3-Trichloropropane	12.727	75	237691	22.448	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	237691	69.565	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.262	180	576	2.162	ug/l	92
95) Naphthalene	15.498	128	7535	4.137	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.698	180	968	2.545	ug/l #	72

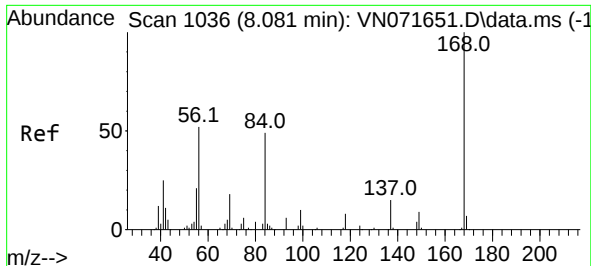
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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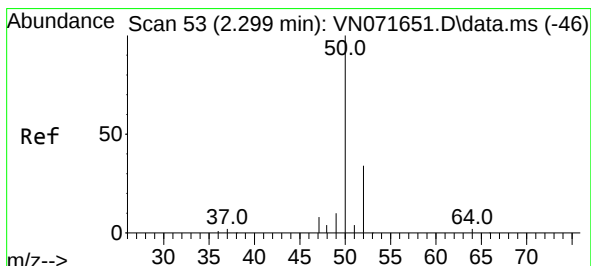
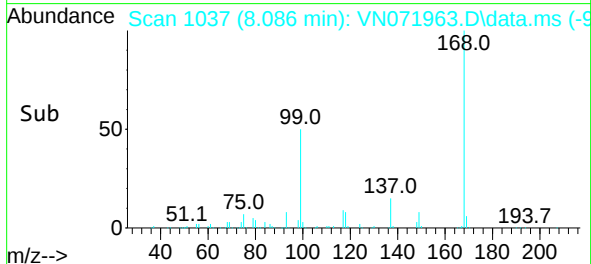
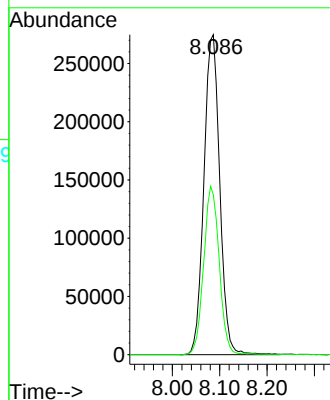
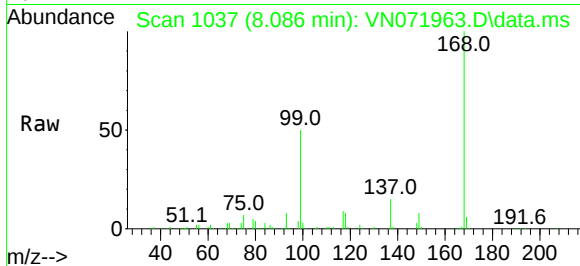




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

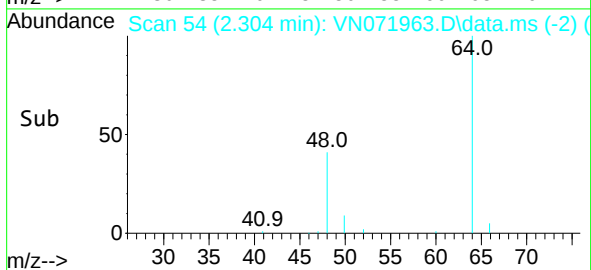
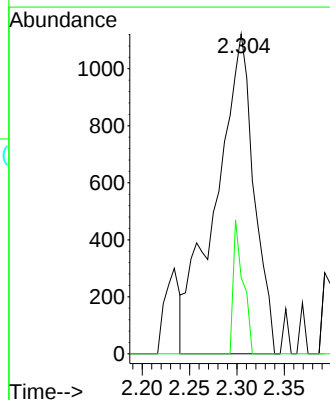
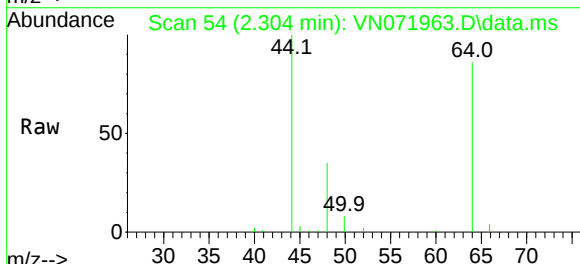
Instrument :
MSVOA_N
ClientSampleId :
DEL-8D

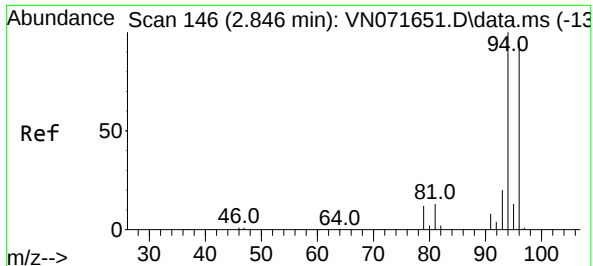
Tgt Ion:168 Resp: 638713
Ion Ratio Lower Upper
168 100
99 50.0 42.3 63.5



#3
Chloromethane
Concen: 0.489 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.005 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

Tgt Ion: 50 Resp: 3146
Ion Ratio Lower Upper
50 100
52 23.9 25.7 38.5#





#5

Bromomethane

Concen: 0.387 ug/l

RT: 2.881 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

Instrument :

MSVOA_N

ClientSampleId :

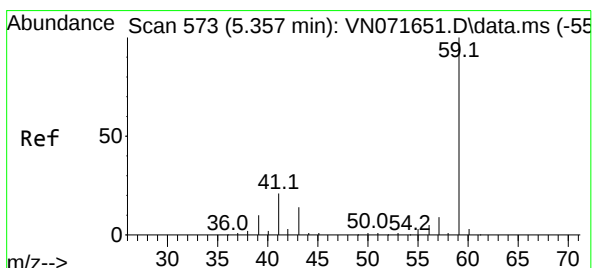
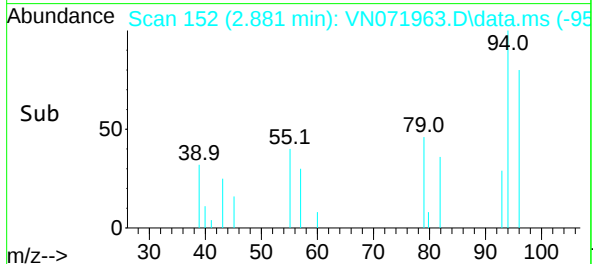
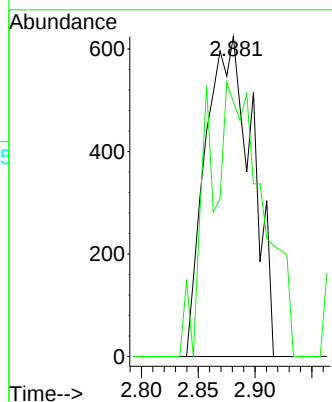
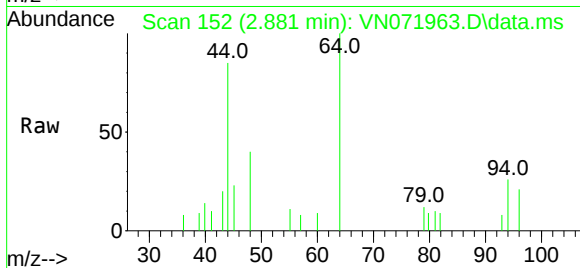
DEL-8D

Tgt Ion: 94 Resp: 1776

Ion Ratio Lower Upper

94 100

96 79.6 76.0 114.0



#11

Tert butyl alcohol

Concen: 0.887 ug/l

RT: 5.357 min Scan# 573

Delta R.T. 0.000 min

Lab File: VN071963.D

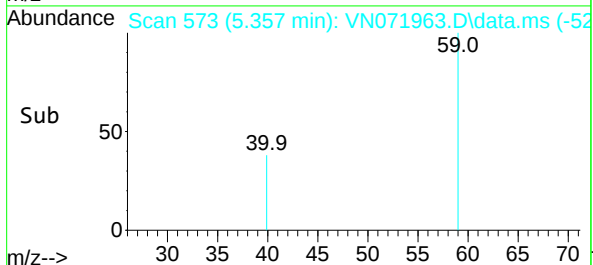
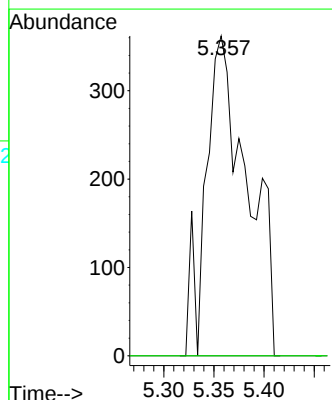
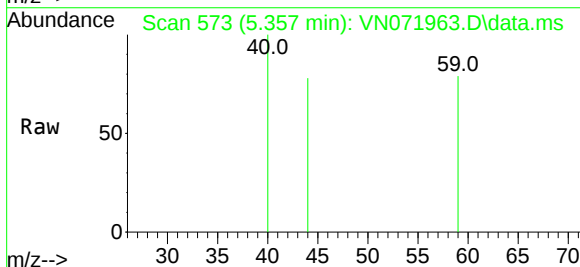
Acq: 12 Apr 2022 19:02

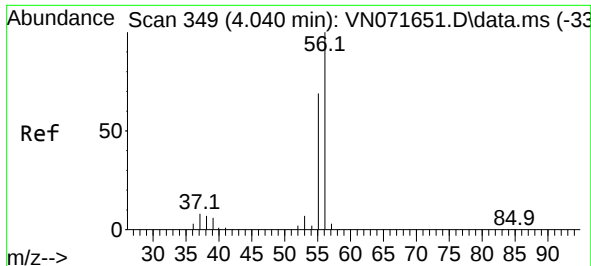
Tgt Ion: 59 Resp: 1050

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#13

Acrolein

Concen: 0.258 ug/l

RT: 4.046 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

Instrument :

MSVOA_N

ClientSampleId :

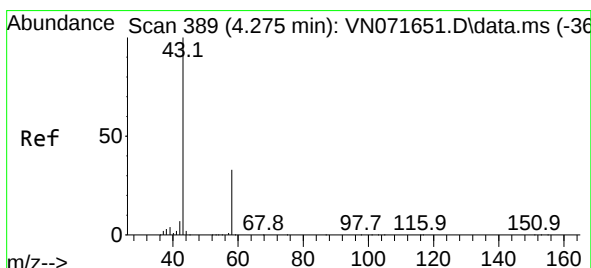
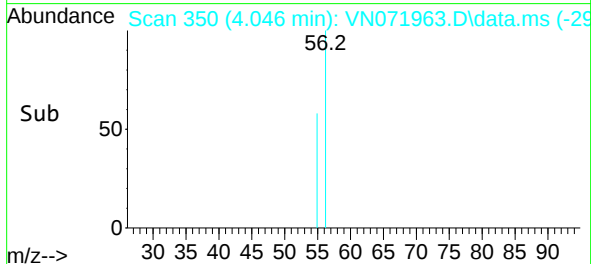
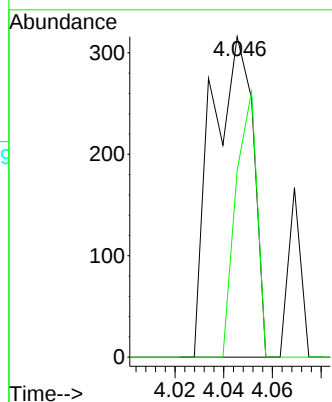
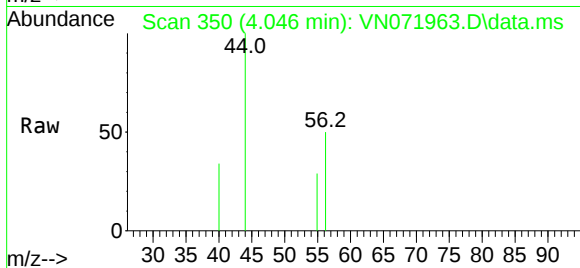
DEL-8D

Tgt Ion: 56 Resp: 372

Ion Ratio Lower Upper

56 100

55 42.2 54.8 82.2#



#16

Acetone

Concen: 28.298 ug/l

RT: 4.287 min Scan# 391

Delta R.T. 0.012 min

Lab File: VN071963.D

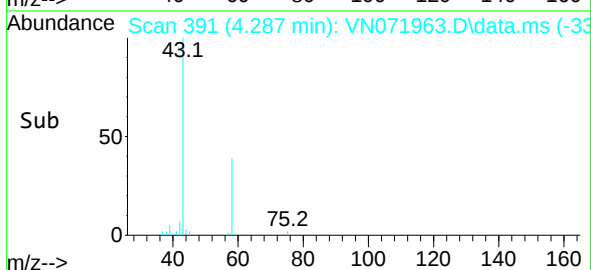
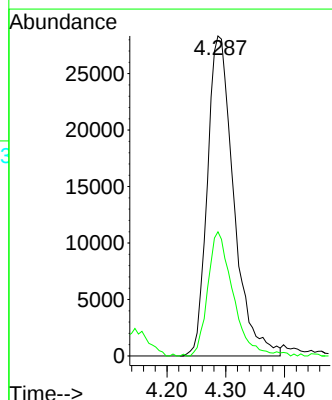
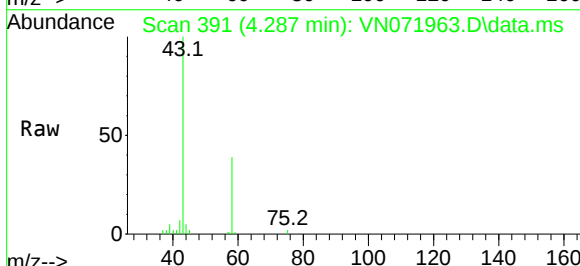
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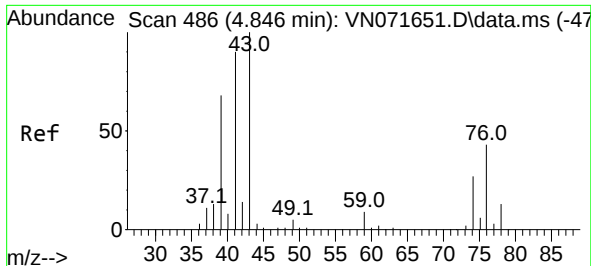
Tgt Ion: 43 Resp: 88181

Ion Ratio Lower Upper

43 100

58 38.8 26.0 39.0

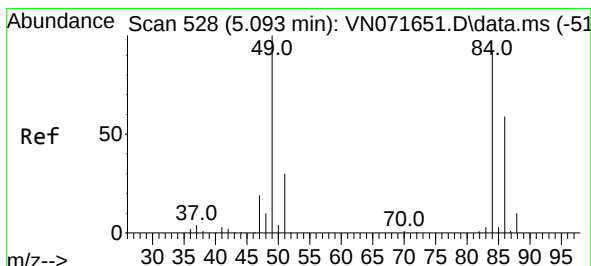
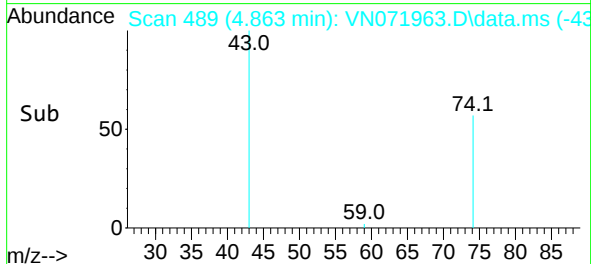
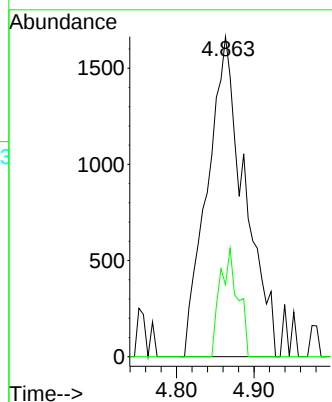
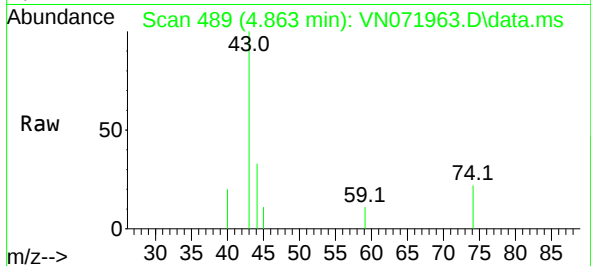




#18
Methyl Acetate
Concen: Below Cal
RT: 4.863 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

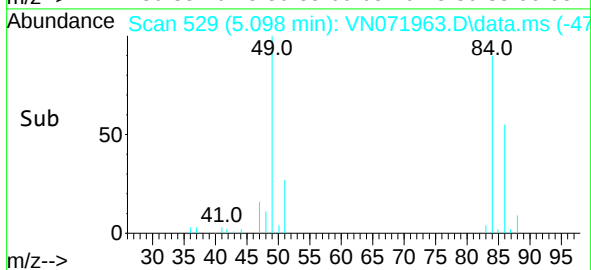
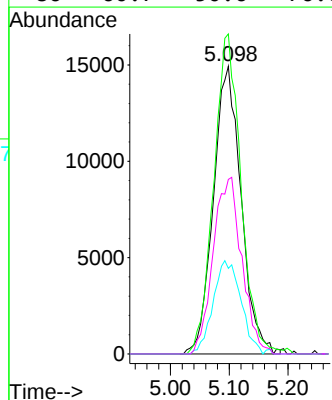
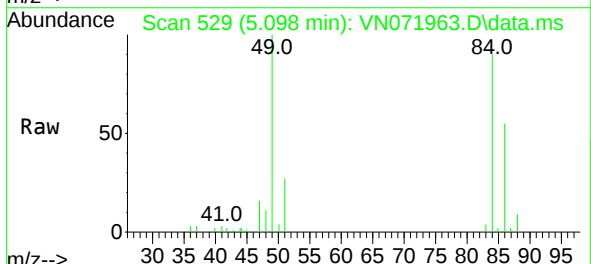
Instrument :
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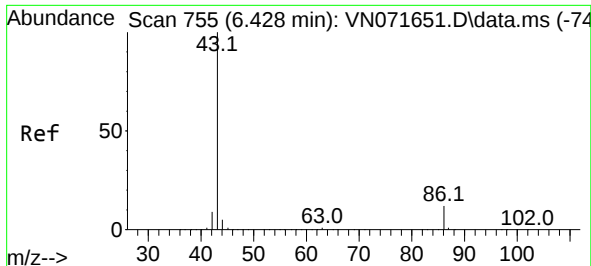
Tgt Ion: 43 Resp: 5566
Ion Ratio Lower Upper
43 100
74 16.3 21.6 32.4#



#20
Methylene Chloride
Concen: 7.451 ug/l
RT: 5.098 min Scan# 529
Delta R.T. 0.005 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

Tgt Ion: 84 Resp: 48936
Ion Ratio Lower Upper
84 100
49 111.2 88.3 132.5
51 29.8 28.2 42.2
86 60.7 50.6 76.0

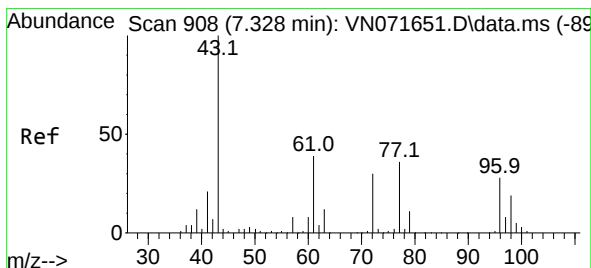
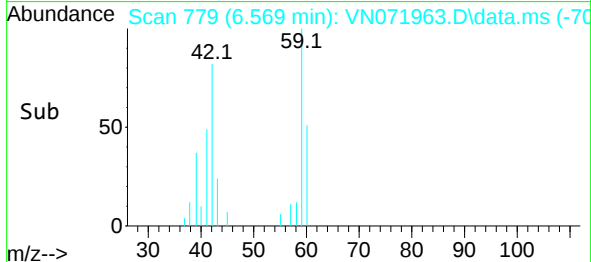
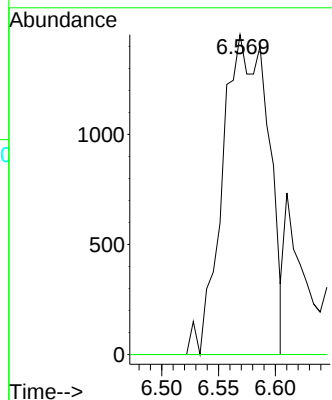
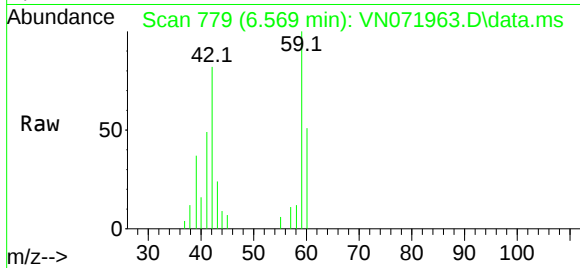




#23
 Vinyl Acetate
 Concen: 0.274 ug/l
 RT: 6.569 min Scan# 71
 Delta R.T. 0.141 min
 Lab File: VN071963.D
 Acq: 12 Apr 2022 19:02

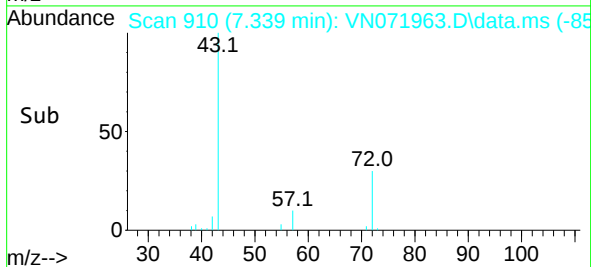
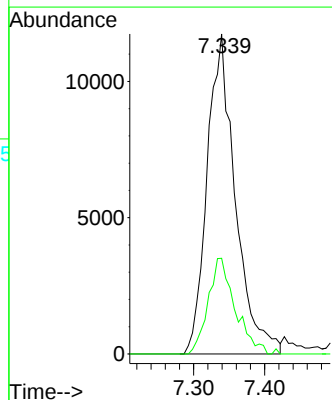
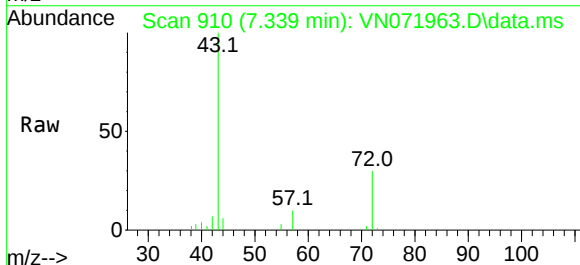
Instrument :
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 DEL-8D

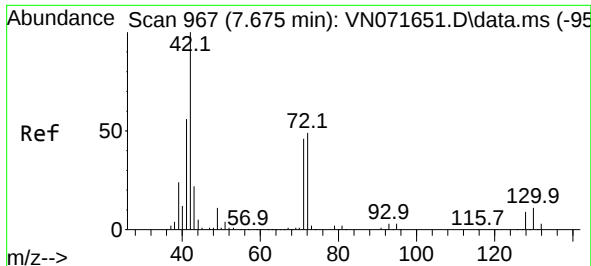
Tgt Ion: 43 Resp: 4066
 Ion Ratio Lower Upper
 43 100
 86 0.0 10.0 15.0#



#25
 2-Butanone
 Concen: 7.204 ug/l
 RT: 7.339 min Scan# 910
 Delta R.T. 0.011 min
 Lab File: VN071963.D
 Acq: 12 Apr 2022 19:02

Tgt Ion: 43 Resp: 32362
 Ion Ratio Lower Upper
 43 100
 72 29.9 23.7 35.5





#29

Tetrahydrofuran

Concen: 0.374 ug/l

RT: 7.692 min Scan# 91

Delta R.T. 0.017 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

Instrument :

MSVOA_N

ClientSampleId :

DEL-8D

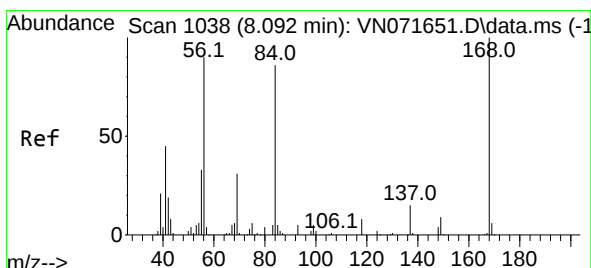
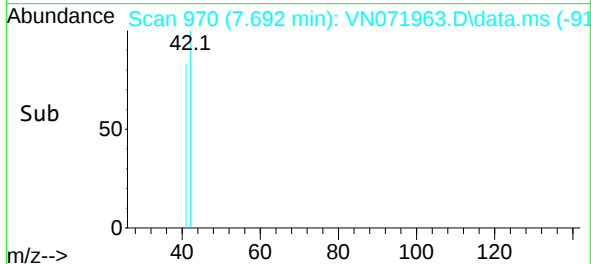
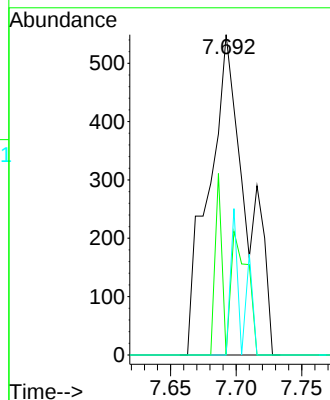
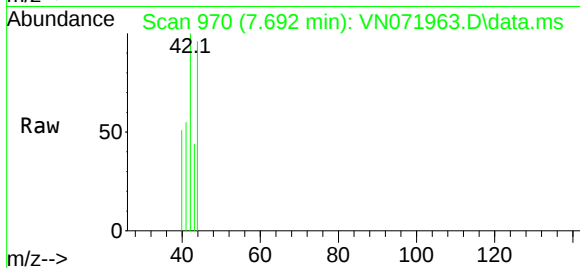
Tgt Ion: 42 Resp: 1087

Ion Ratio Lower Upper

42 100

72 17.0 39.7 59.5#

71 13.8 36.6 55.0#



#31

Cyclohexane

Concen: 1.066 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.011 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

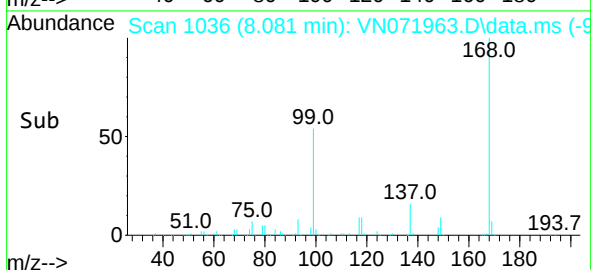
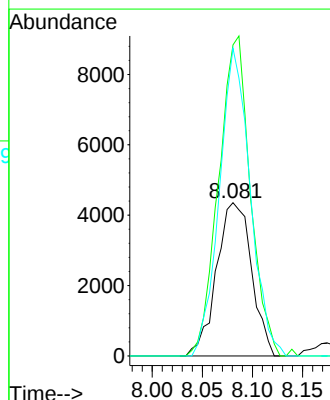
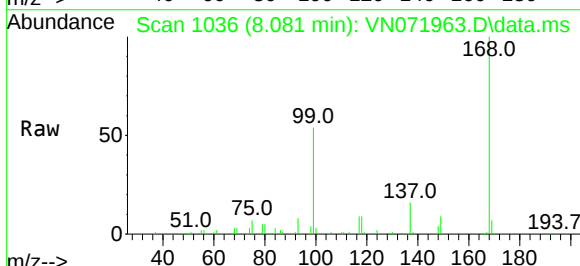
Tgt Ion: 56 Resp: 10568

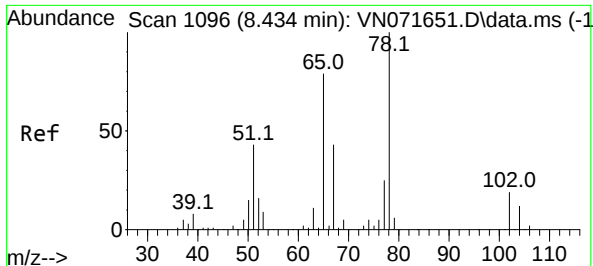
Ion Ratio Lower Upper

56 100

69 202.9 27.8 41.8#

84 200.7 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 46.735 ug/l

RT: 8.433 min Scan# 110

Delta R.T. -0.001 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

Instrument :

MSVOA_N

ClientSampleId :

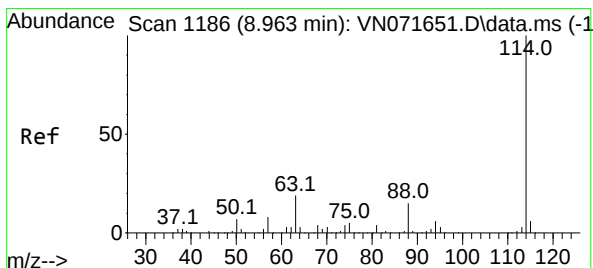
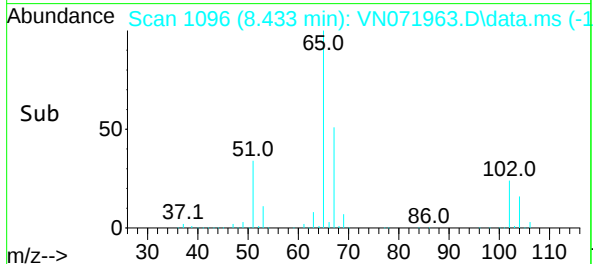
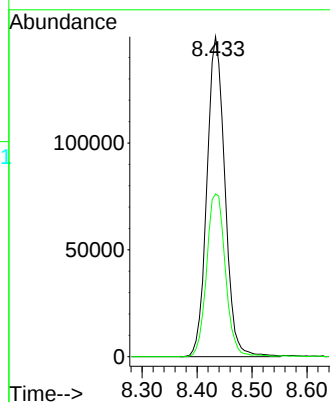
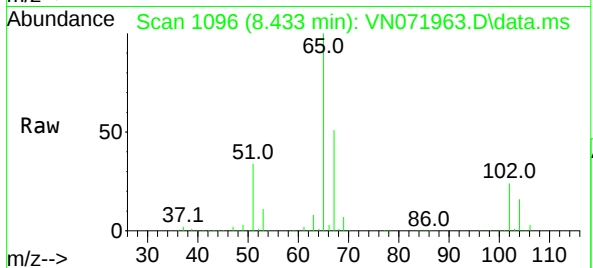
DEL-8D

Tgt Ion: 65 Resp: 340773

Ion Ratio Lower Upper

65 100

67 53.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

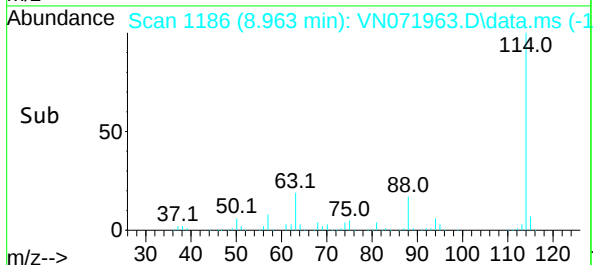
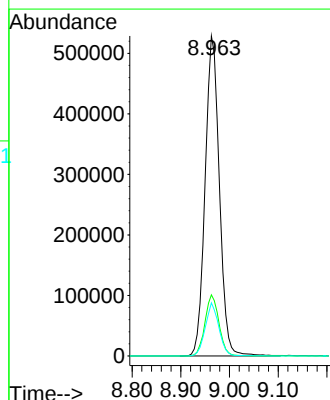
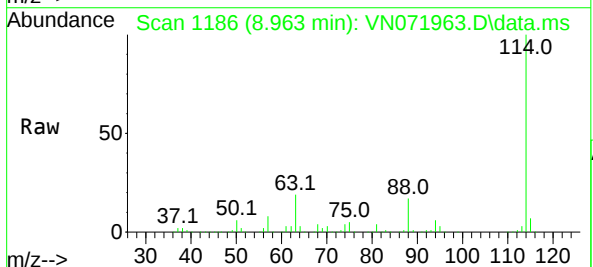
Tgt Ion: 114 Resp: 1075845

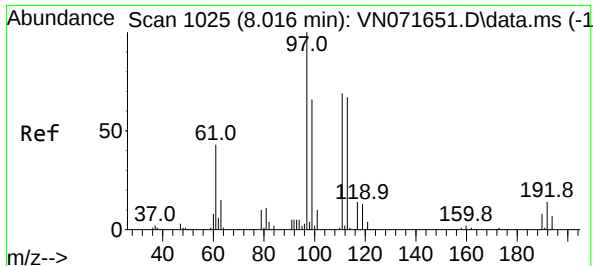
Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 16.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.225 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.000 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

Instrument :

MSVOA_N

ClientSampleId :

DEL-8D

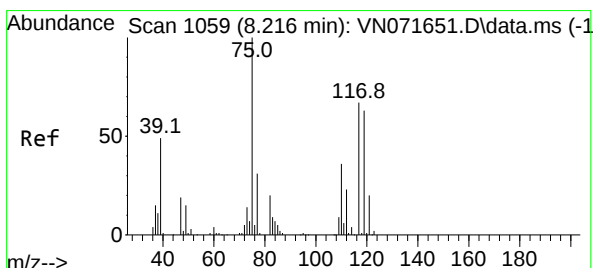
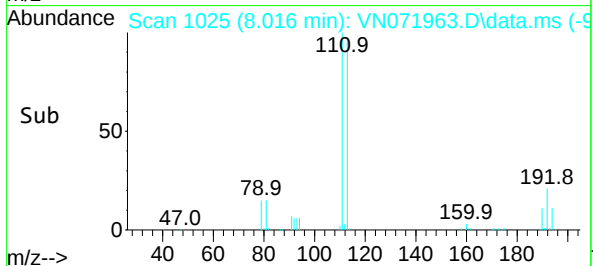
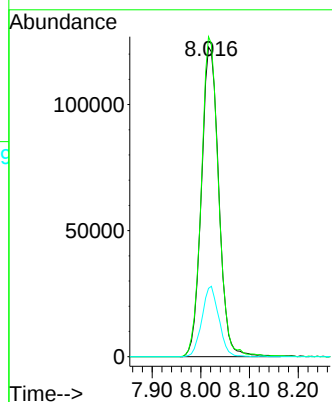
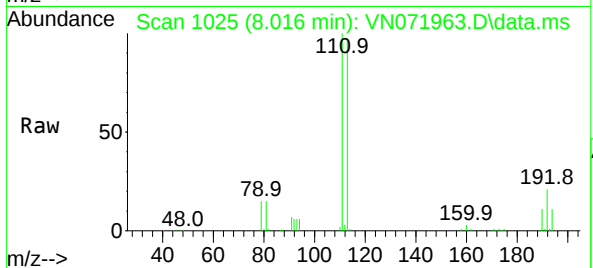
Tgt Ion:113 Resp: 305297

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

192 22.0 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.778 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

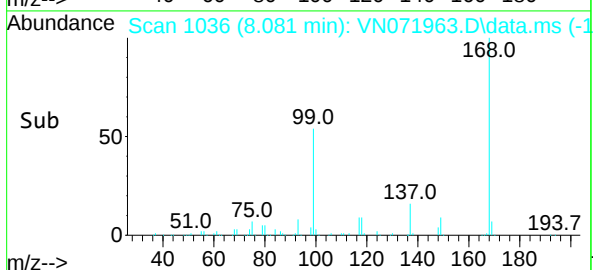
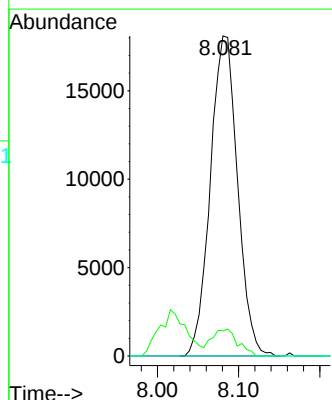
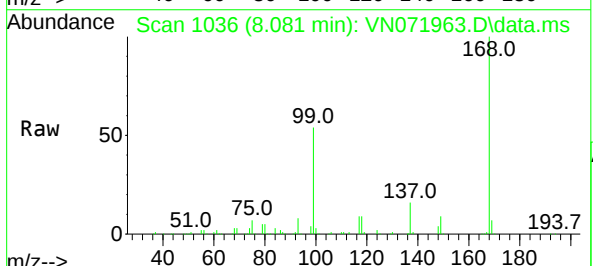
Tgt Ion: 75 Resp: 42239

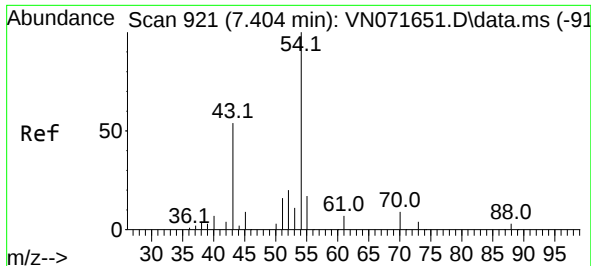
Ion Ratio Lower Upper

75 100

110 7.9 18.3 54.8#

77 0.0 25.1 37.7#

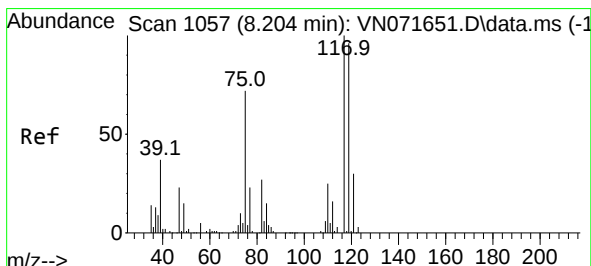
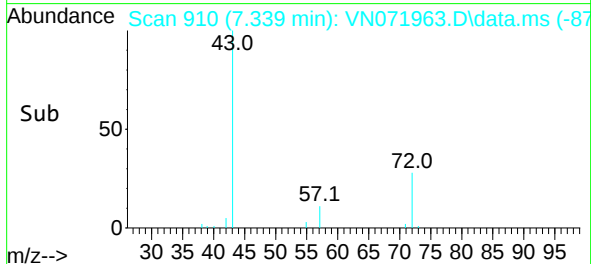
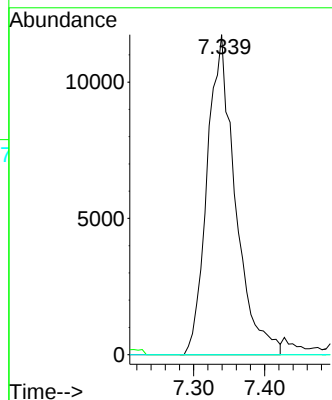
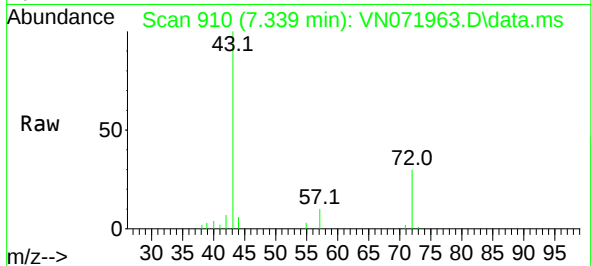




#37
Ethyl Acetate
Concen: 3.344 ug/l
RT: 7.339 min Scan# 91
Delta R.T. -0.065 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

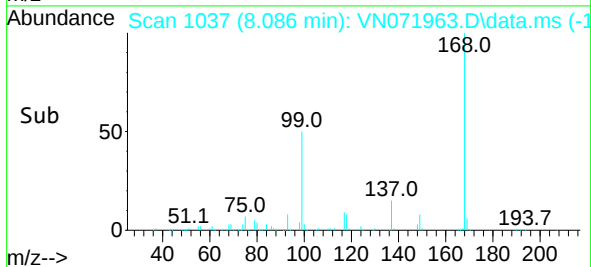
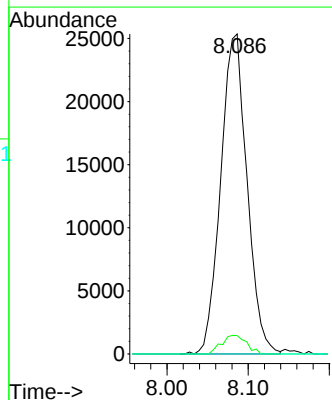
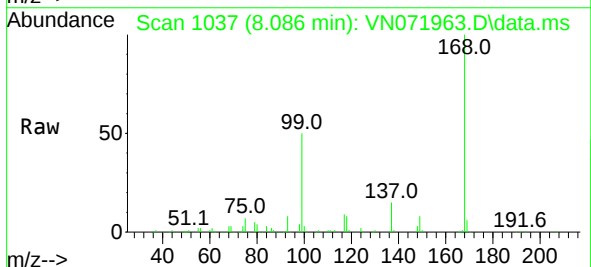
Instrument :
MSVOA_N
ClientSampleId :
DEL-8D

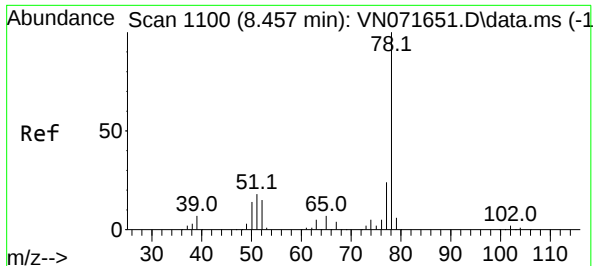
Tgt Ion: 43 Resp: 32362
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 6.595 ug/l
RT: 8.086 min Scan# 1037
Delta R.T. -0.118 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

Tgt Ion: 117 Resp: 57139
Ion Ratio Lower Upper
117 100
119 5.8 75.8 113.8#
121 0.0 24.6 37.0#

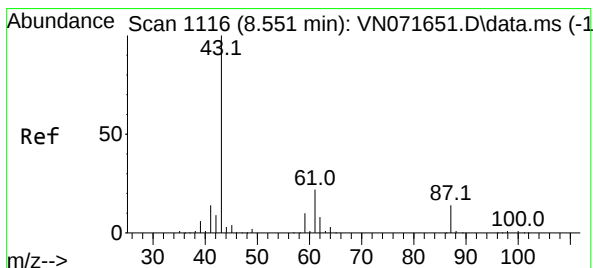
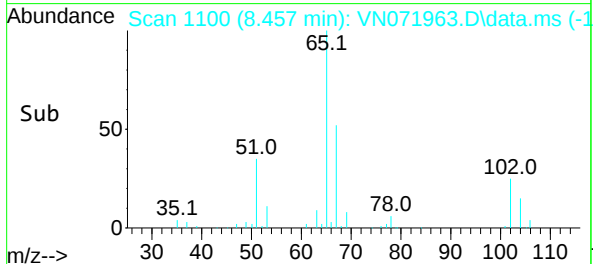
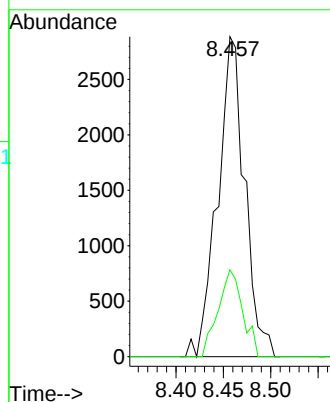
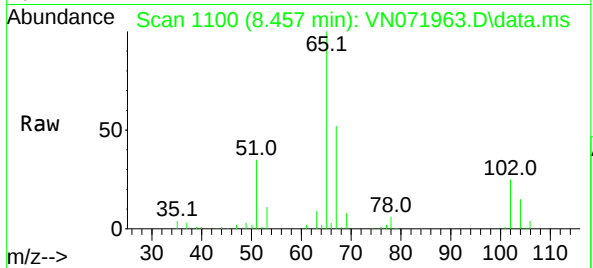




#40
Benzene
Concen: 0.205 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

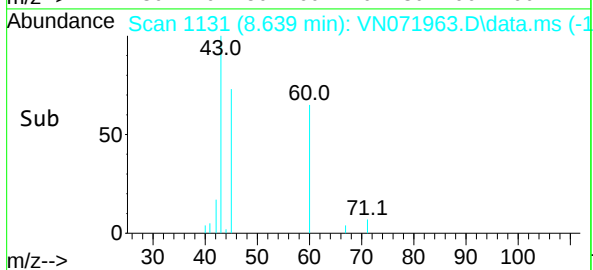
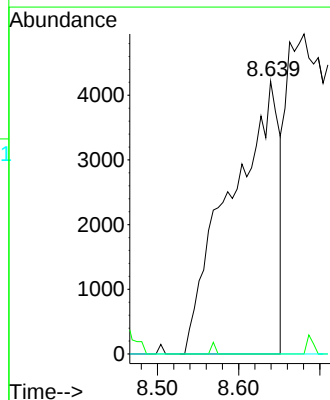
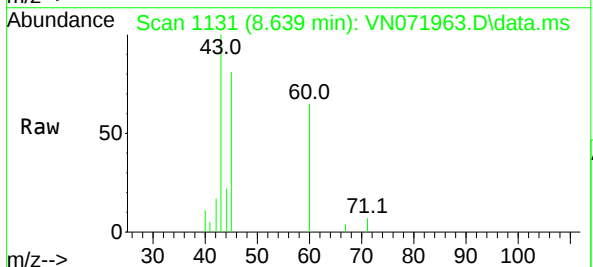
Instrument :
MSVOA_N
ClientSampleId :
DEL-8D

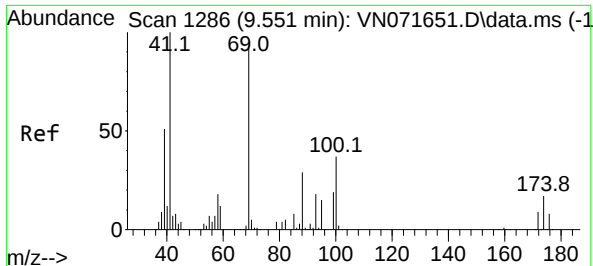
Tgt Ion: 78 Resp: 5724
Ion Ratio Lower Upper
78 100
77 27.1 19.4 29.0



#43
Isopropyl Acetate
Concen: 1.093 ug/l
RT: 8.639 min Scan# 1131
Delta R.T. 0.088 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

Tgt Ion: 43 Resp: 17594
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#





#48

Methyl methacrylate

Concen: 2.769 ug/l

RT: 9.539 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

Instrument :

MSVOA_N

ClientSampleId :

DEL-8D

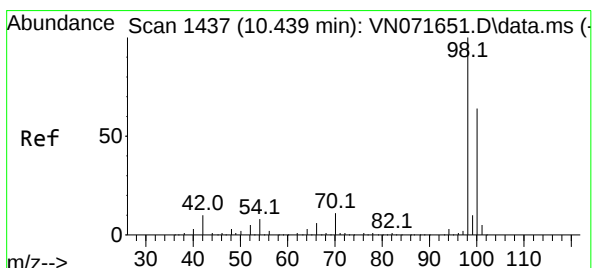
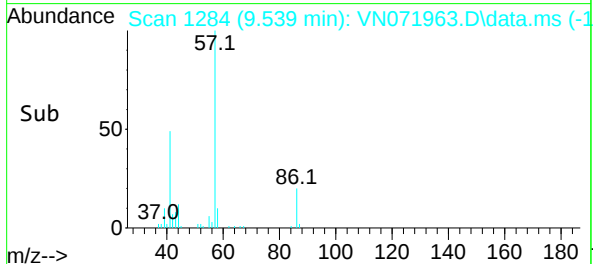
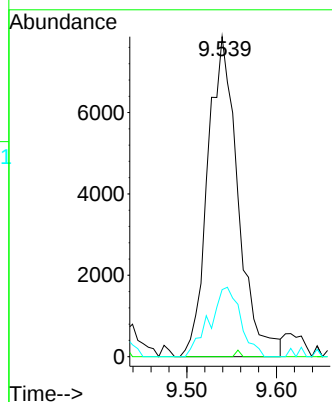
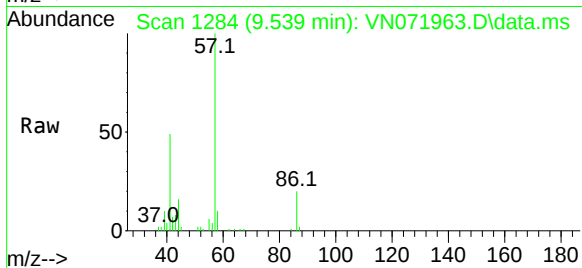
Tgt Ion: 41 Resp: 18491

Ion Ratio Lower Upper

41 100

69 0.3 74.7 112.1#

39 22.1 45.6 68.4#



#50

Toluene-d8

Concen: 52.498 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN071963.D

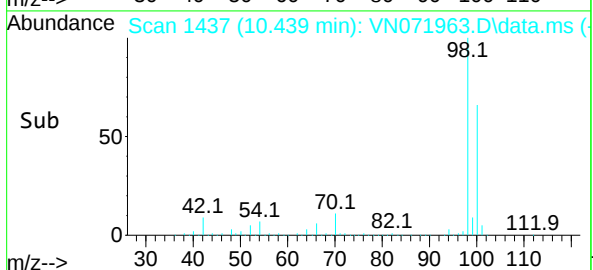
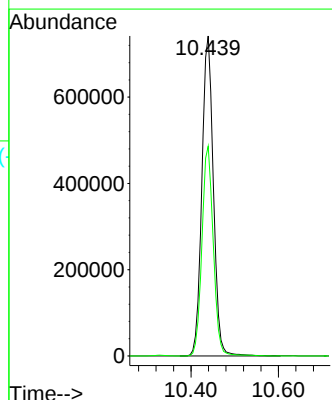
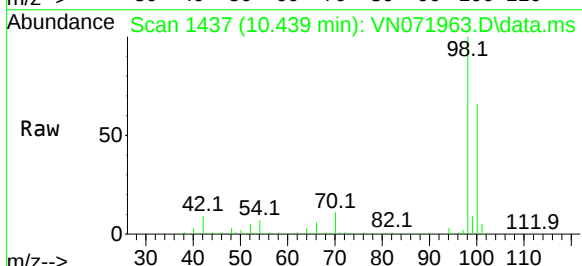
Acq: 12 Apr 2022 19:02

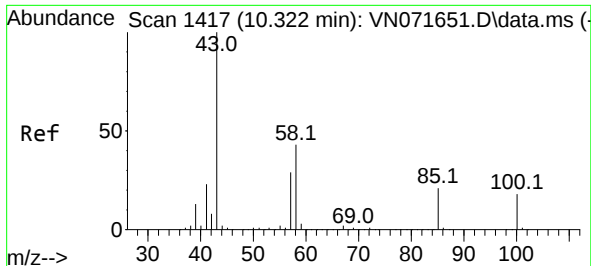
Tgt Ion: 98 Resp: 1359559

Ion Ratio Lower Upper

98 100

100 64.9 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 1.964 ug/l

RT: 10.327 min Scan# 1417

Delta R.T. 0.005 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

Instrument :

MSVOA_N

ClientSampleId :

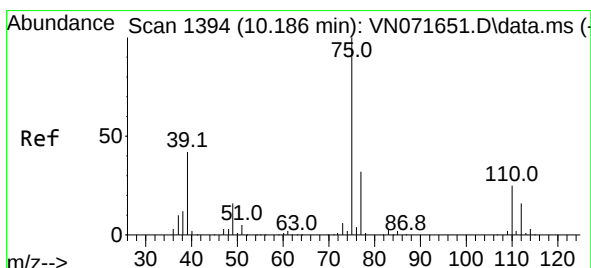
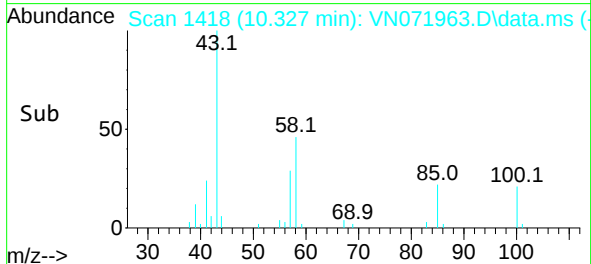
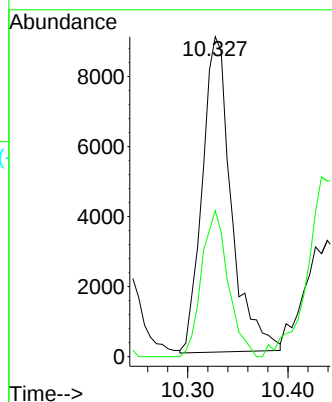
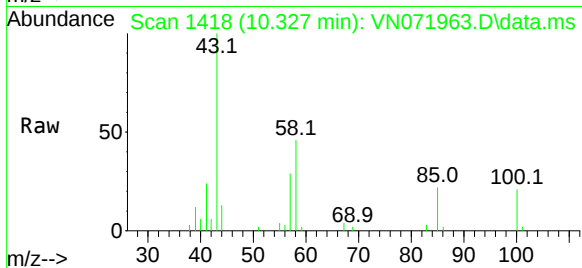
DEL-8D

Tgt Ion: 43 Resp: 18172

Ion Ratio Lower Upper

43 100

58 42.2 34.1 51.1



#54

cis-1,3-Dichloropropene

Concen: 0.237 ug/l

RT: 10.233 min Scan# 1402

Delta R.T. 0.047 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

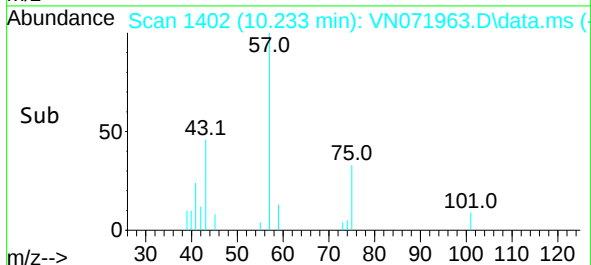
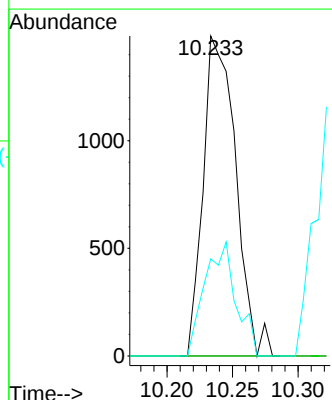
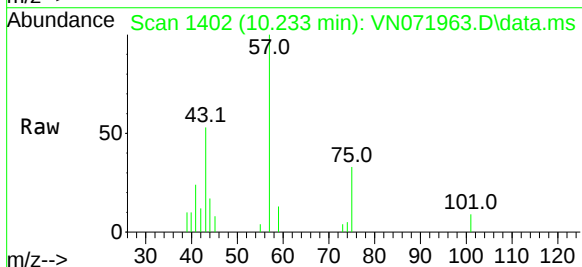
Tgt Ion: 75 Resp: 2562

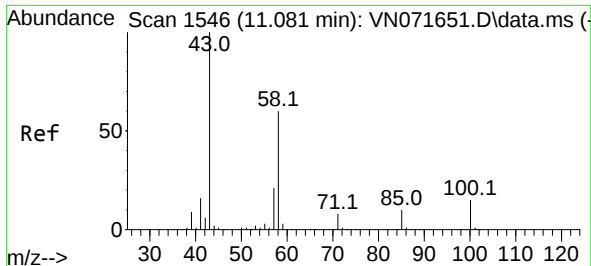
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 30.3 35.7 53.5#

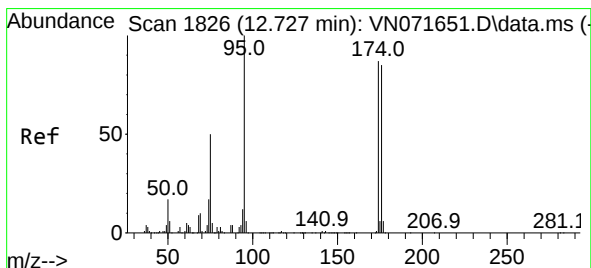
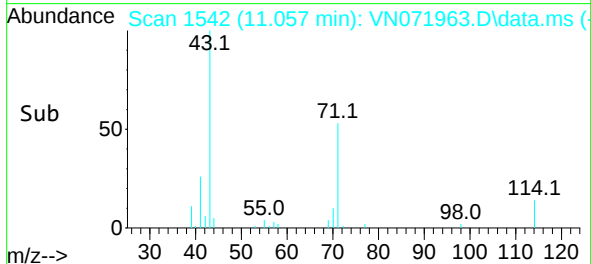
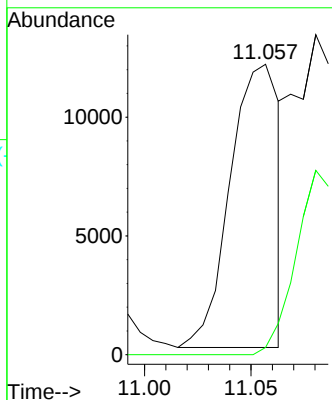
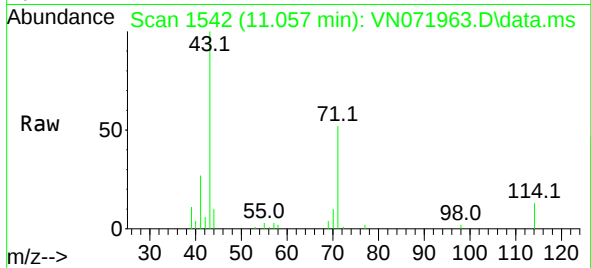




#59
2-Hexanone
Concen: 2.940 ug/l
RT: 11.057 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

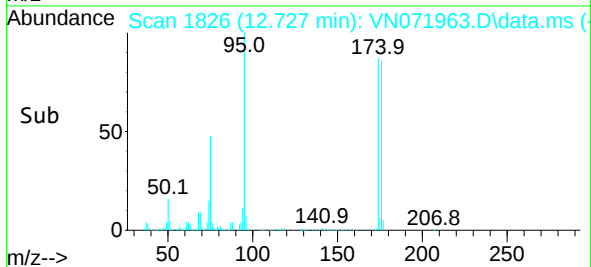
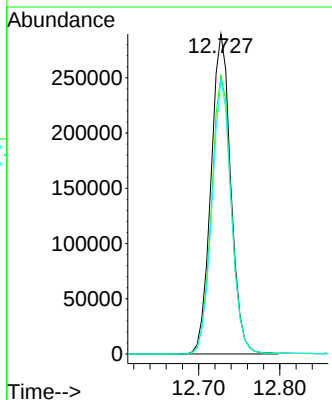
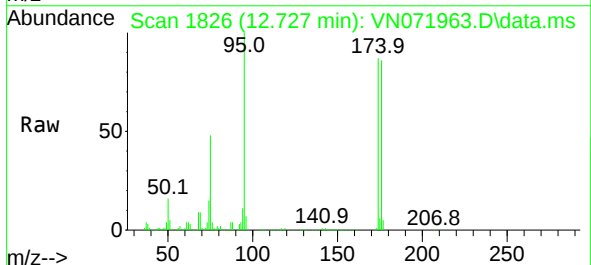
Instrument :
MSVOA_N
ClientSampleId :
DEL-8D

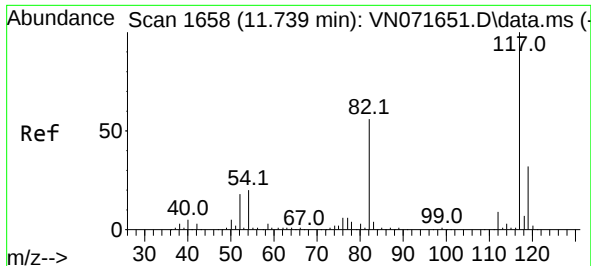
Tgt Ion: 43 Resp: 19151
Ion Ratio Lower Upper
43 100
58 0.0 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 58.603 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

Tgt Ion: 95 Resp: 490839
Ion Ratio Lower Upper
95 100
174 87.1 0.0 167.6
176 84.3 0.0 163.4

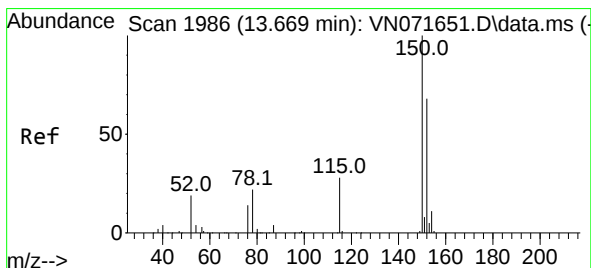
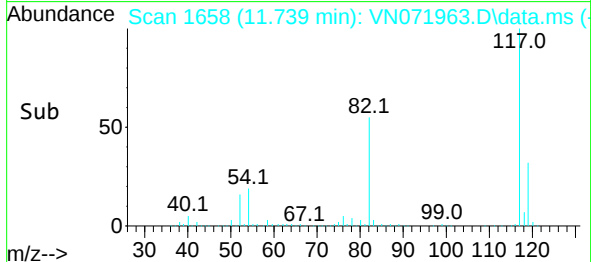
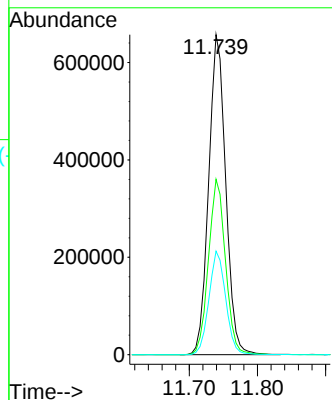
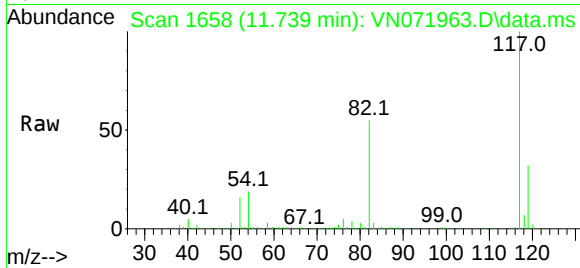




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

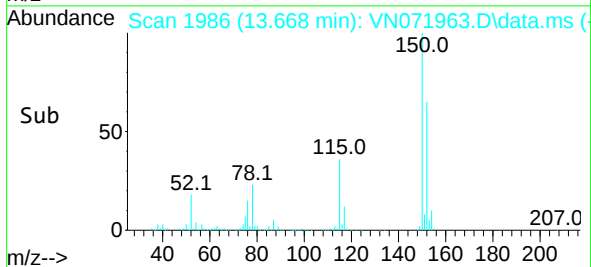
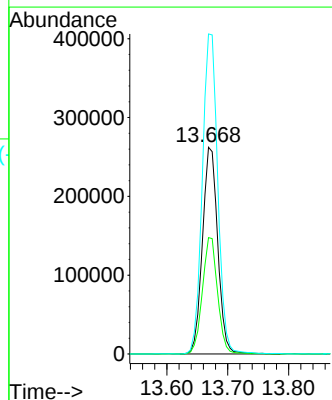
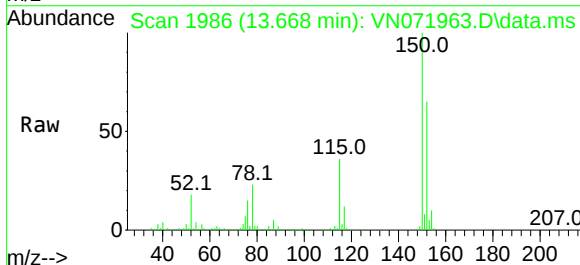
Instrument :
MSVOA_N
ClientSampleId :
DEL-8D

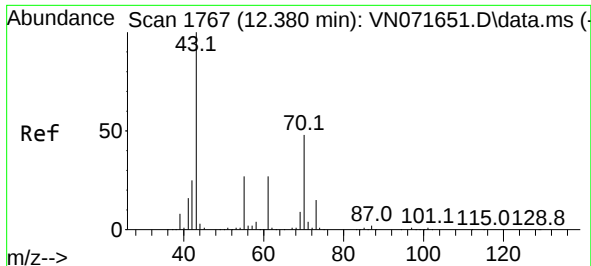
Tgt Ion:117 Resp: 1143720
Ion Ratio Lower Upper
117 100
82 54.8 44.2 66.2
119 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. -0.001 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

Tgt Ion:152 Resp: 457080
Ion Ratio Lower Upper
152 100
115 56.0 28.9 86.7
150 156.3 0.0 356.2

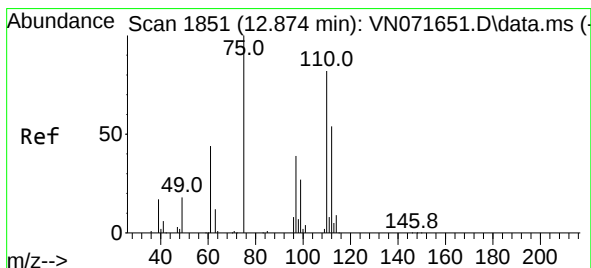
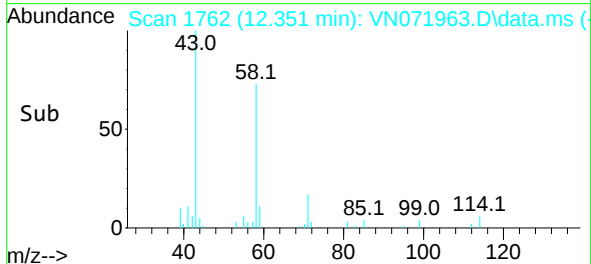
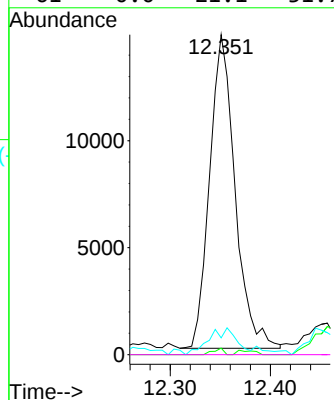
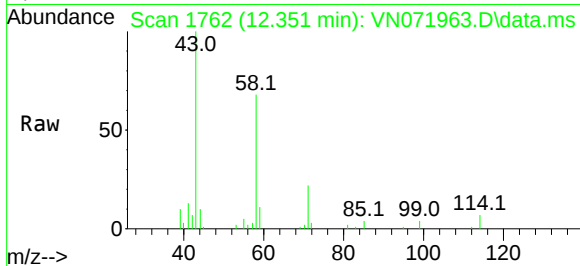




#74
N-amy1 acetate
Concen: 2.342 ug/l
RT: 12.351 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

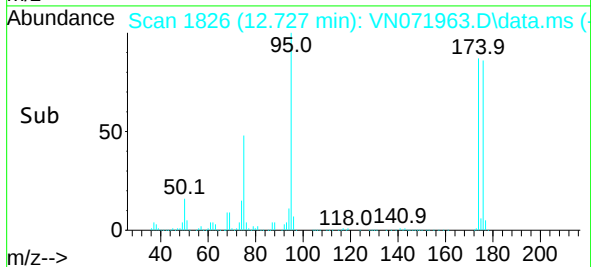
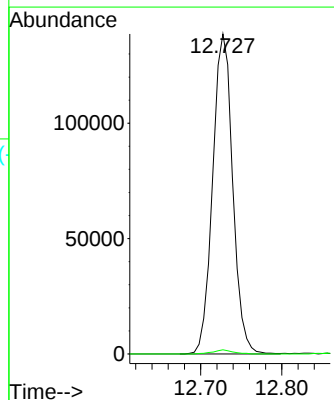
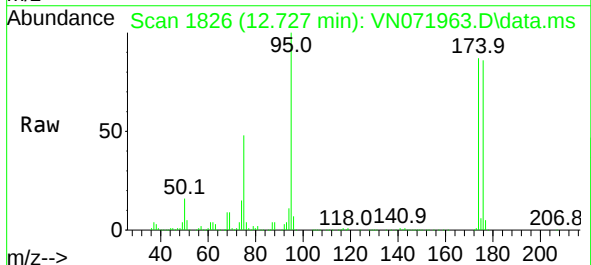
Instrument :
MSVOA_N
ClientSampleId :
DEL-8D

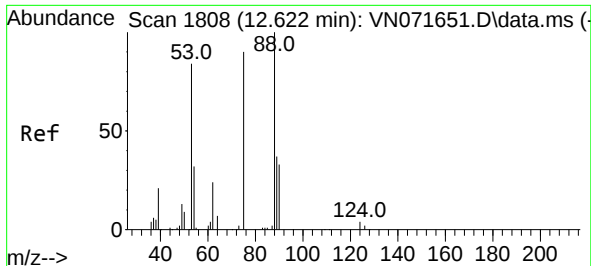
Tgt Ion: 43	Resp: 25841
Ion Ratio	Lower Upper
43	100
70	0.8 39.0 58.4#
55	9.3 21.1 31.7#
61	0.0 21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 22.448 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

Tgt Ion: 75	Resp: 237691
Ion Ratio	Lower Upper
75	100
77	1.3 98.5 295.5#

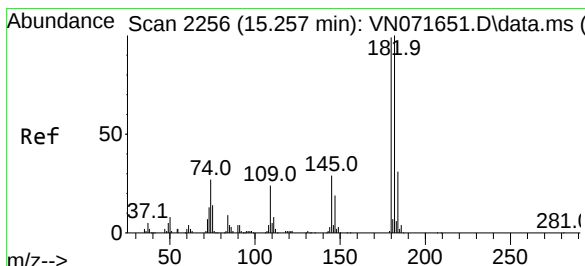
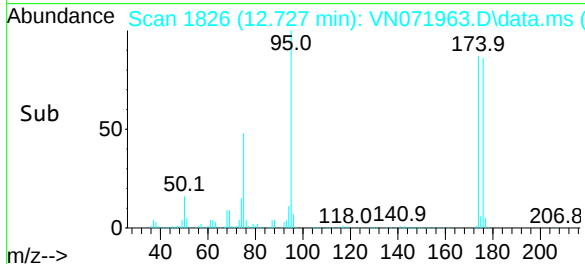
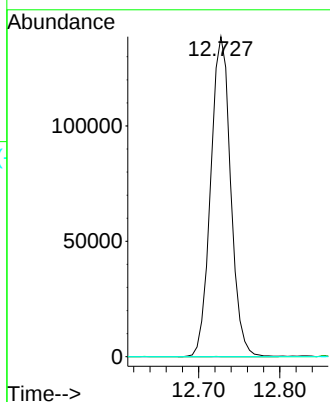
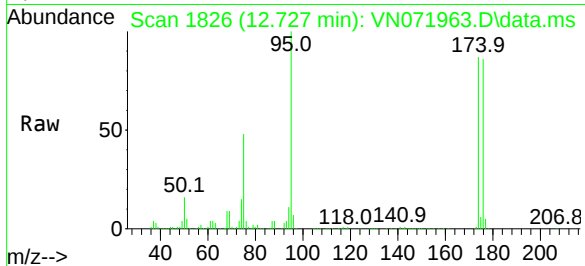




#81
trans-1,4-Dichloro-2-butene
Concen: 69.565 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.105 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

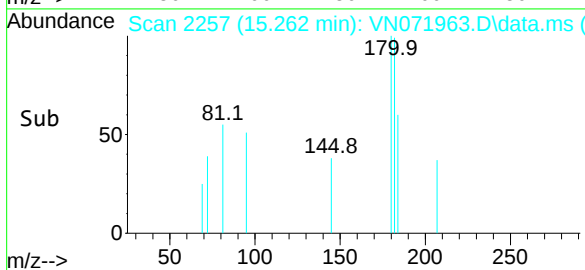
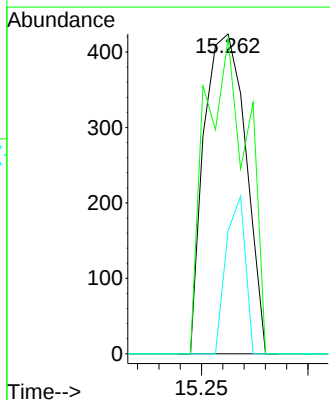
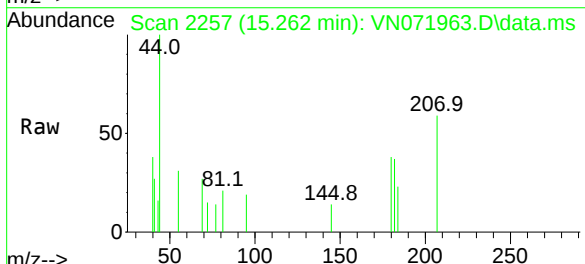
Instrument :
MSVOA_N
ClientSampleId :
DEL-8D

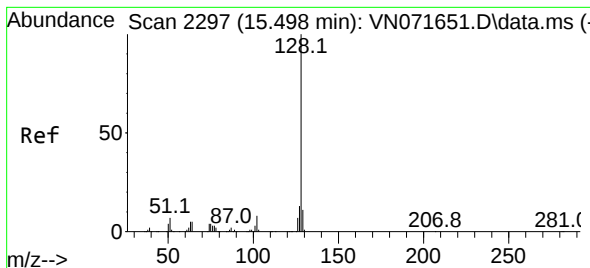
Tgt Ion: 75 Resp: 237691
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.162 ug/l
RT: 15.262 min Scan# 2257
Delta R.T. 0.005 min
Lab File: VN071963.D
Acq: 12 Apr 2022 19:02

Tgt Ion: 180 Resp: 576
Ion Ratio Lower Upper
180 100
182 101.0 47.5 142.5
145 22.7 14.5 43.5





#95

Naphthalene

Concen: 4.137 ug/l

RT: 15.498 min Scan# 2297

Delta R.T. -0.000 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

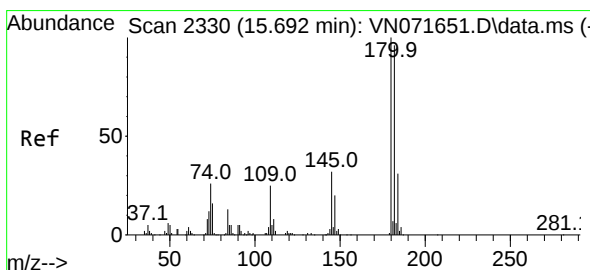
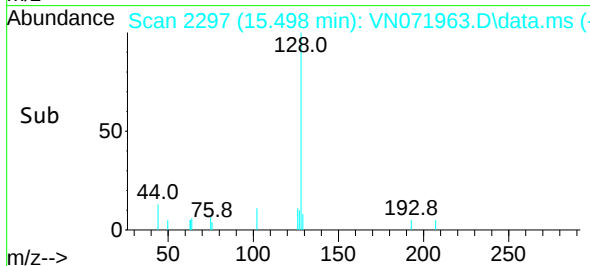
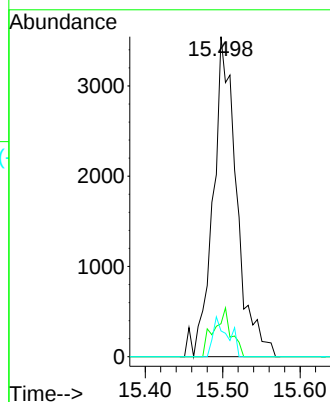
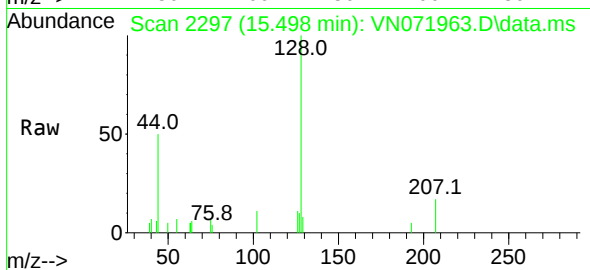
Instrument :

MSVOA_N

ClientSampleId :

DEL-8D

Tgt Ion:128	Resp:	7535
Ion Ratio	Lower	Upper
128	100	
127	11.3	10.3 15.5
129	7.9	8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 2.545 ug/l

RT: 15.698 min Scan# 2331

Delta R.T. 0.006 min

Lab File: VN071963.D

Acq: 12 Apr 2022 19:02

Tgt Ion:180	Resp:	968
Ion Ratio	Lower	Upper
180	100	
182	70.0	47.8 143.3
145	13.1	15.5 46.5#

