

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041322\
 Data File : VN071980.D
 Acq On : 13 Apr 2022 16:52
 Operator : JC\MD
 Sample : N2349-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-4

Quant Time: Apr 14 02:35:06 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)

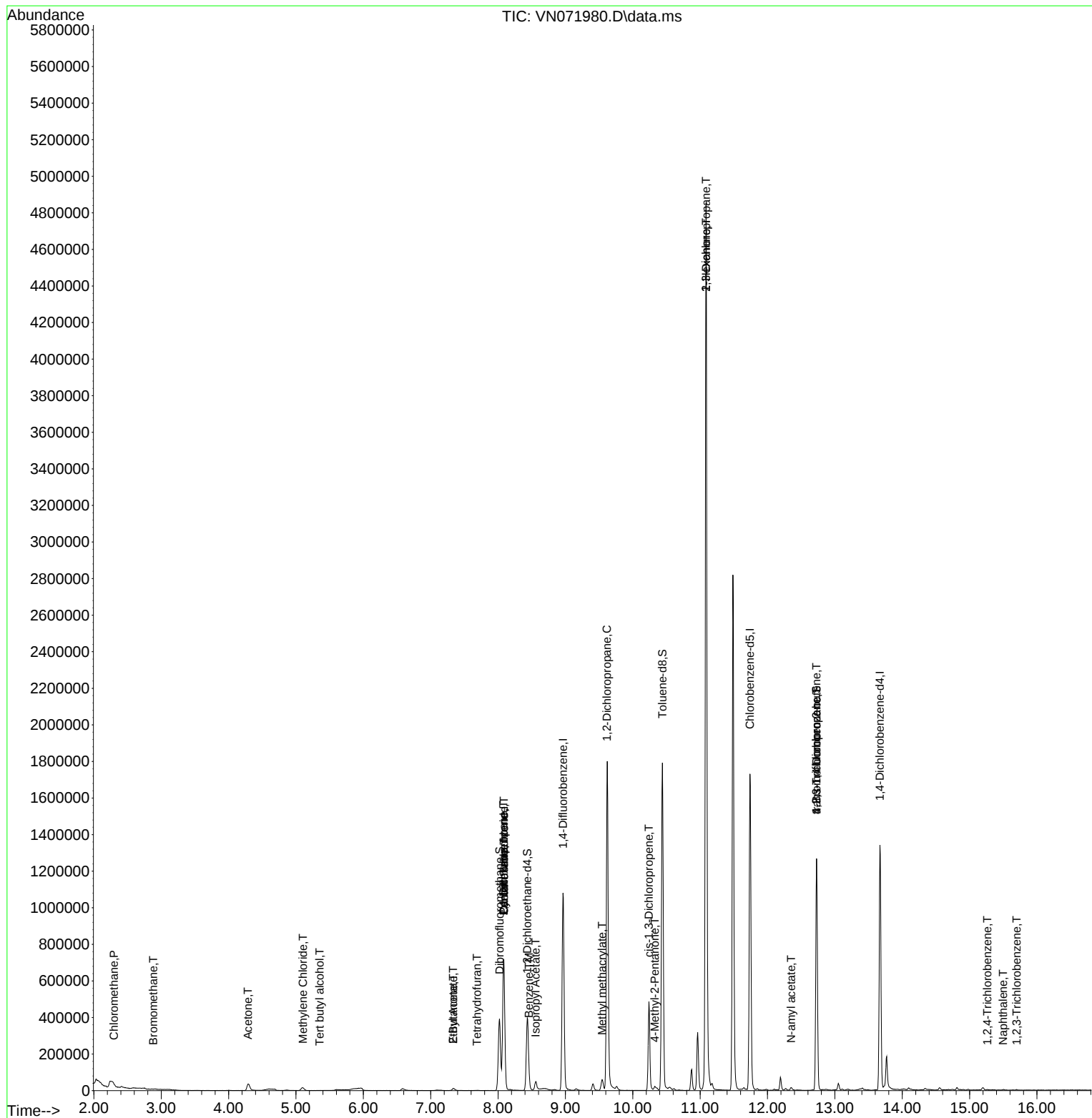
Internal Standards						
1) Pentafluorobenzene	8.086	168	600523	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1034669	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1099426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	412762	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	325976	47.548	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.100%		
35) Dibromofluoromethane	8.022	113	292934	48.113	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.220%		
50) Toluene-d8	10.439	98	1338406	53.737	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	107.480%		
62) 4-Bromofluorobenzene	12.727	95	460736	57.198	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	114.400%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	3088	0.510	ug/l	97
5) Bromomethane	2.881	94	1401	0.324	ug/l	93
11) Tert butyl alcohol	5.351	59	354	0.318	ug/l #	72
16) Acetone	4.287	43	68042	23.224	ug/l	92
18) Methyl Acetate	4.869	43	5820	Below Cal	#	82
20) Methylene Chloride	5.104	84	14314	2.318	ug/l	89
25) 2-Butanone	7.333	43	21130	5.003	ug/l #	86
29) Tetrahydrofuran	7.686	42	985	0.360	ug/l #	67
31) Cyclohexane	8.086	56	9790	1.050	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	40750	4.793	ug/l #	49
37) Ethyl Acetate	7.333	43	21130	2.271	ug/l #	67
38) Carbon Tetrachloride	8.086	117	52750	6.331	ug/l #	16
40) Benzene	8.457	78	15546	0.579	ug/l	93
43) Isopropyl Acetate	8.557	43	58081	3.752	ug/l #	90
45) 1,2-Dichloropropane	9.616	63	2367	0.353	ug/l #	44
48) Methyl methacrylate	9.545	41	15472	2.409	ug/l #	19
49) 1,4-Dioxane	9.627	88	352	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.327	43	12122	1.362	ug/l	94
54) cis-1,3-Dichloropropene	10.239	75	98671	9.502	ug/l #	59
57) 1,3-Dichloropropane	11.086	76	58517	5.009	ug/l #	43
59) 2-Hexanone	11.086	43	693144	110.626	ug/l #	49
74) N-amyl acetate	12.351	43	11294	1.133	ug/l #	44
76) 1,2,3-Trichloropropane	12.727	75	215945	22.584	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	215945	69.986	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.262	180	939	2.223	ug/l	81
95) Naphthalene	15.498	128	4471	4.023	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.698	180	1029	2.568	ug/l #	86

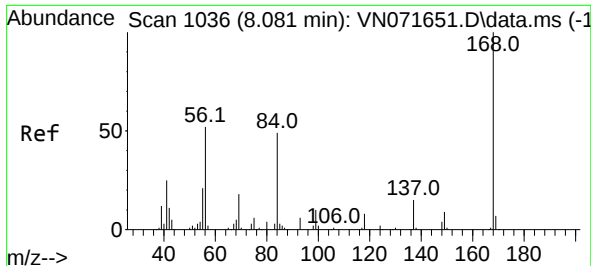
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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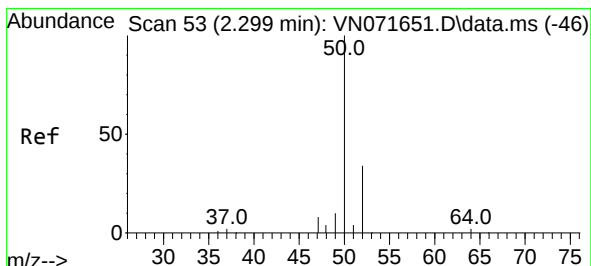
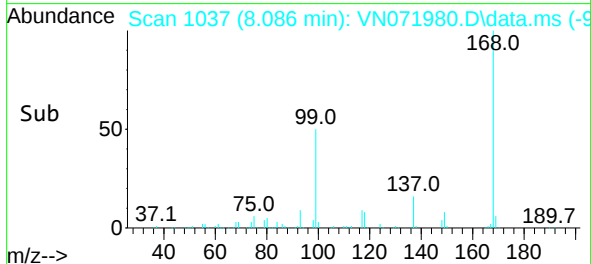
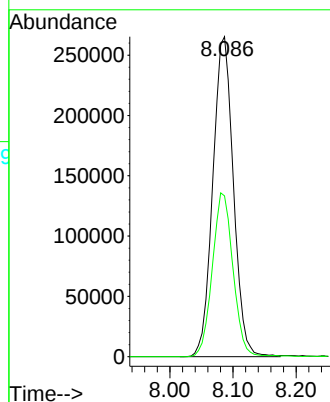
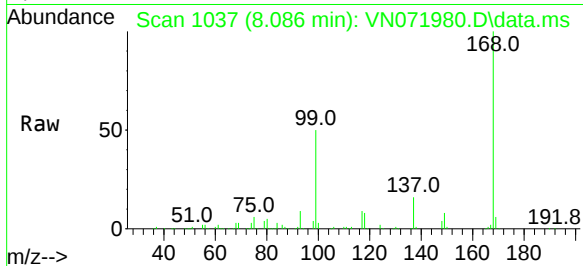




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

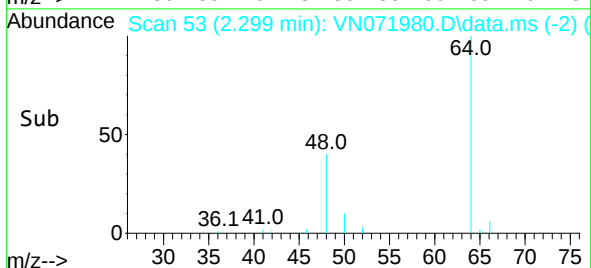
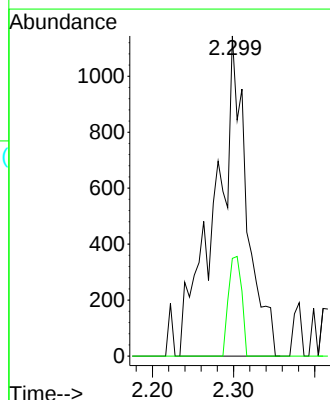
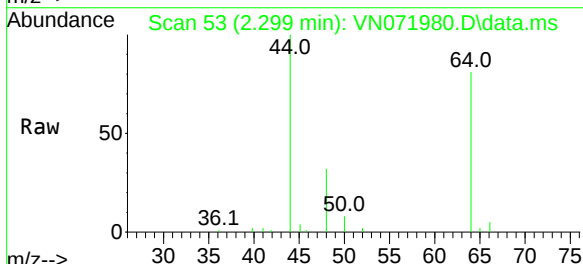
Instrument :
MSVOA_N
ClientSampleId :
DEL-4

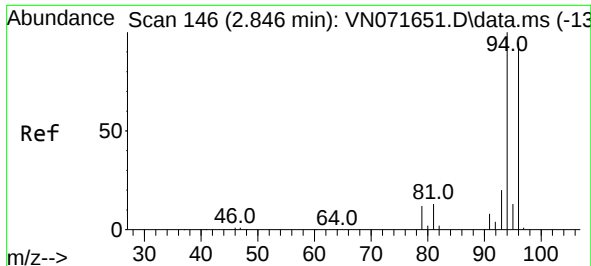
Tgt Ion:168 Resp: 600523
Ion Ratio Lower Upper
168 100
99 50.3 42.3 63.5



#3
Chloromethane
Concen: 0.510 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

Tgt Ion: 50 Resp: 3088
Ion Ratio Lower Upper
50 100
52 30.5 25.7 38.5





#5

Bromomethane

Concen: 0.324 ug/l

RT: 2.881 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Instrument :

MSVOA_N

ClientSampleId :

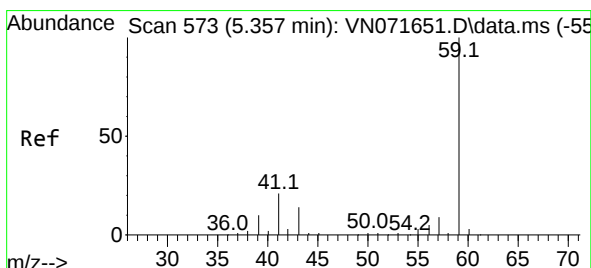
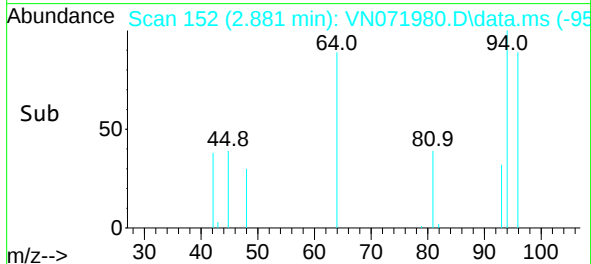
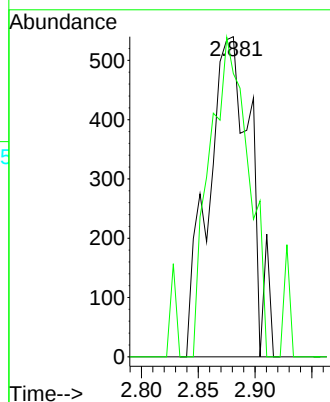
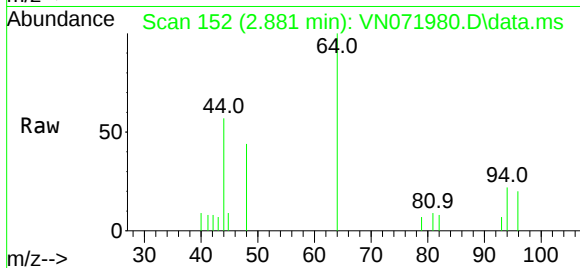
DEL-4

Tgt Ion: 94 Resp: 1401

Ion Ratio Lower Upper

94 100

96 88.5 76.0 114.0



#11

Tert butyl alcohol

Concen: 0.318 ug/l

RT: 5.351 min Scan# 572

Delta R.T. -0.006 min

Lab File: VN071980.D

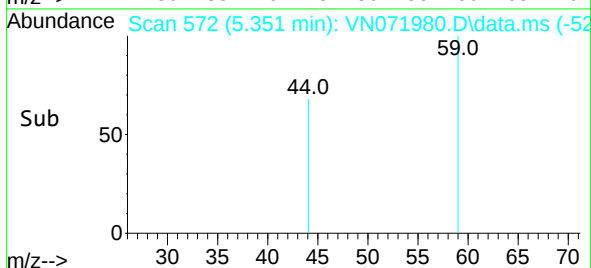
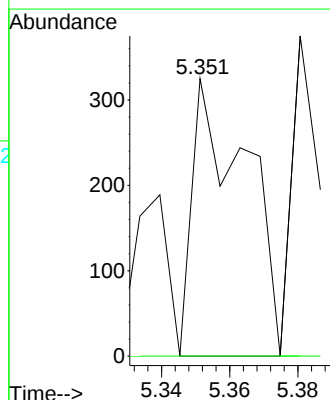
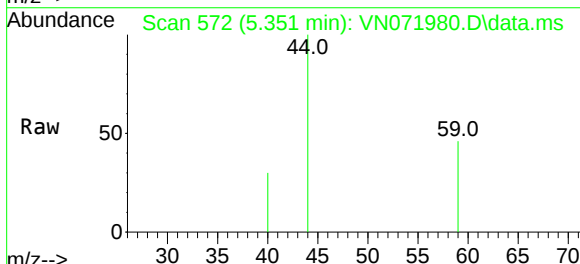
Acq: 13 Apr 2022 16:52

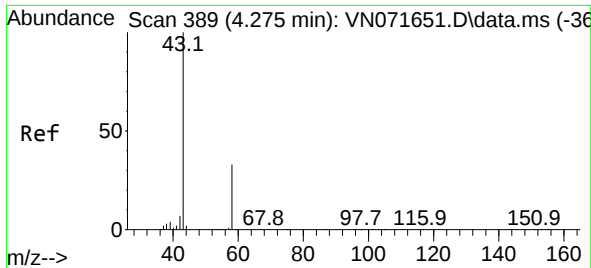
Tgt Ion: 59 Resp: 354

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#

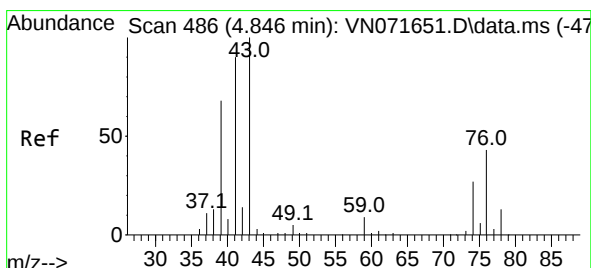
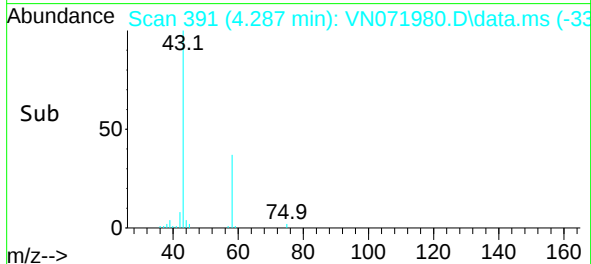
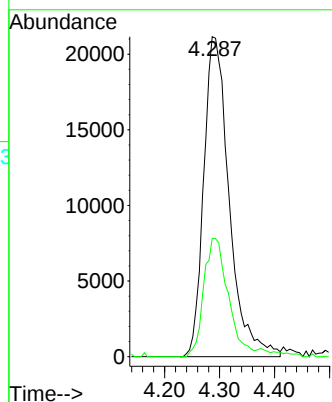
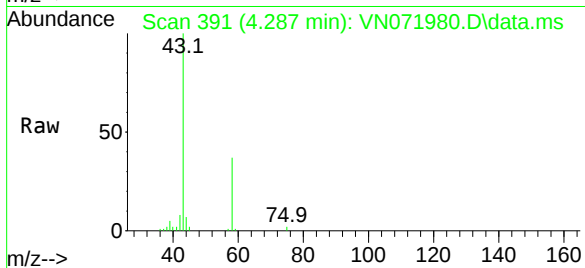




#16
Acetone
Concen: 23.224 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

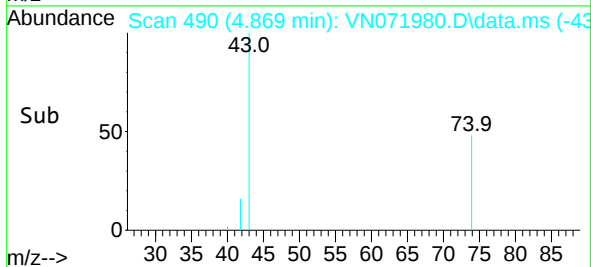
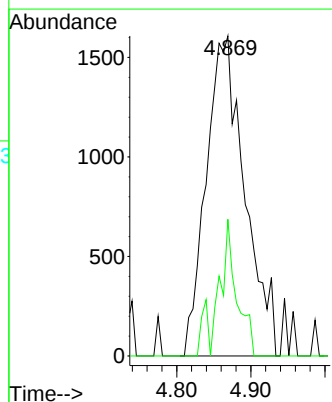
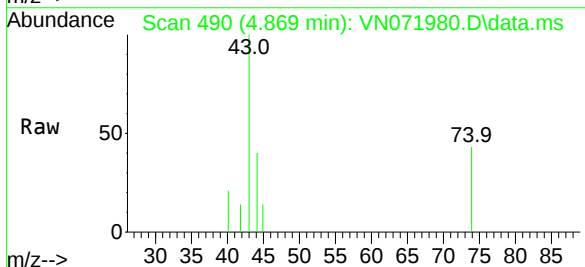
Instrument :
MSVOA_N
ClientSampleId :
DEL-4

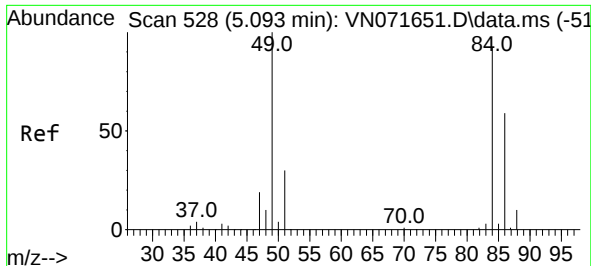
Tgt Ion: 43 Resp: 68042
Ion Ratio Lower Upper
43 100
58 36.9 26.0 39.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.869 min Scan# 490
Delta R.T. 0.023 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

Tgt Ion: 43 Resp: 5820
Ion Ratio Lower Upper
43 100
74 17.8 21.6 32.4#

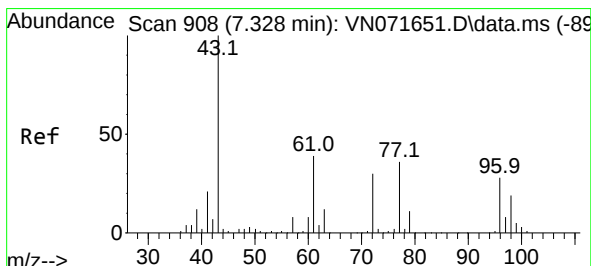
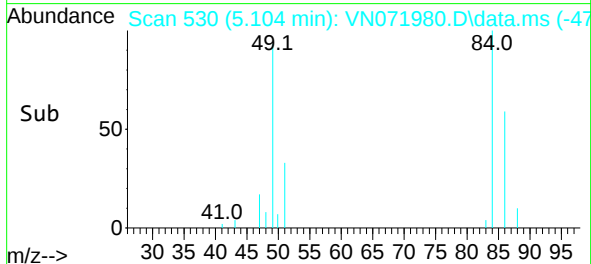
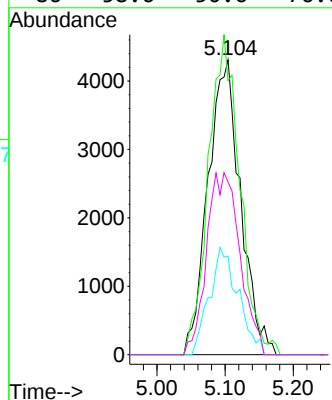
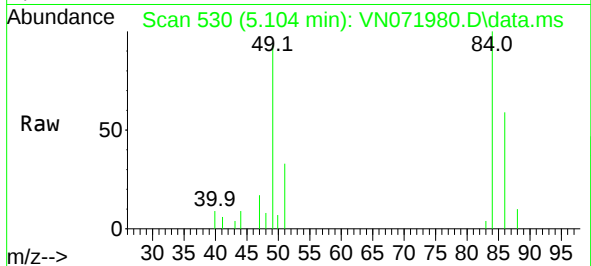




#20
Methylene Chloride
Concen: 2.318 ug/l
RT: 5.104 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

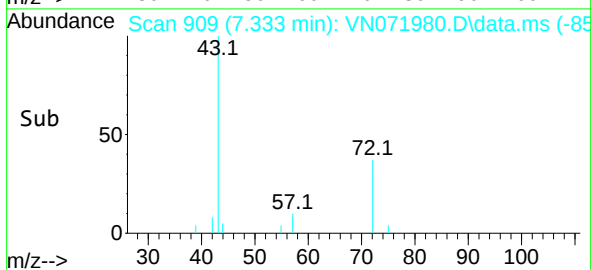
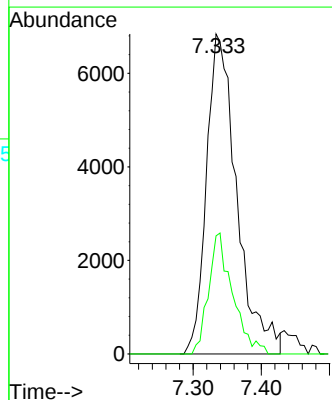
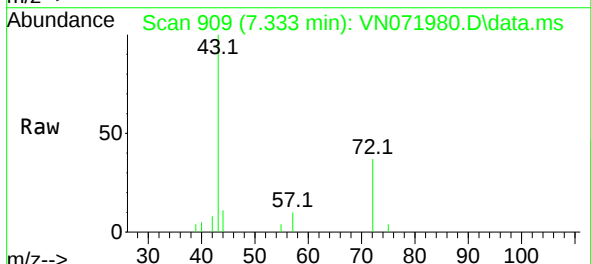
Instrument :
MSVOA_N
ClientSampleId :
DEL-4

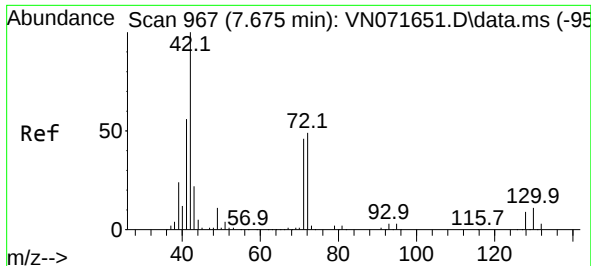
Tgt Ion: 84	Resp: 14314
Ion Ratio	Lower Upper
84 100	
49 93.0	88.3 132.5
51 33.4	28.2 42.2
86 58.6	50.6 76.0



#25
2-Butanone
Concen: 5.003 ug/l
RT: 7.333 min Scan# 909
Delta R.T. 0.005 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

Tgt Ion: 43	Resp: 21130
Ion Ratio	Lower Upper
43 100	
72 36.9	23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.360 ug/l

RT: 7.686 min Scan# 90

Delta R.T. 0.011 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

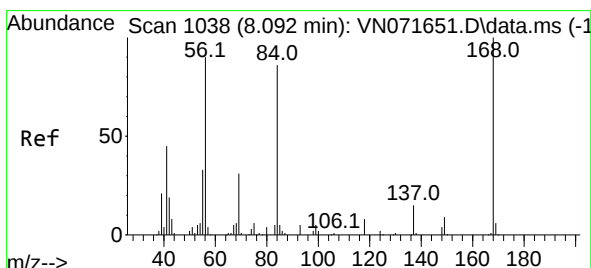
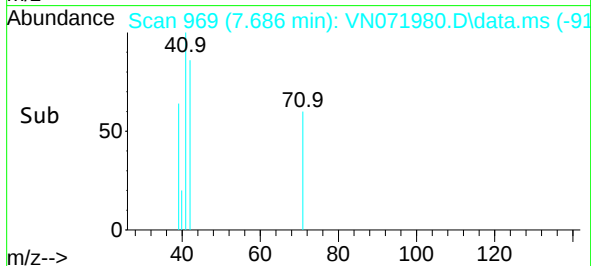
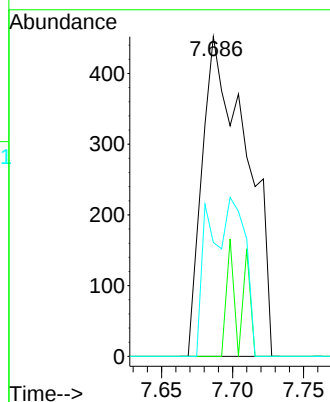
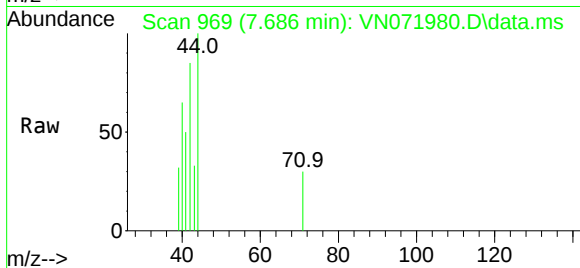
Instrument :

MSVOA_N

ClientSampleId :

DEL-4

Tgt Ion:	42	Resp:	985
Ion	Ratio	Lower	Upper
42	100		
72	11.4	39.7	59.5#
71	40.3	36.6	55.0



#31

Cyclohexane

Concen: 1.050 ug/l

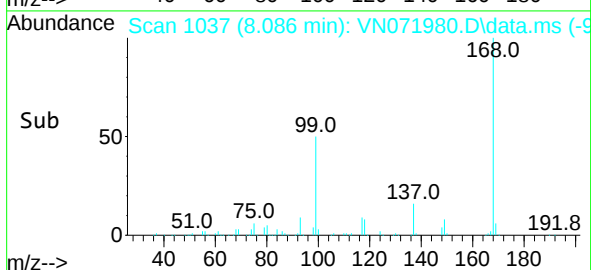
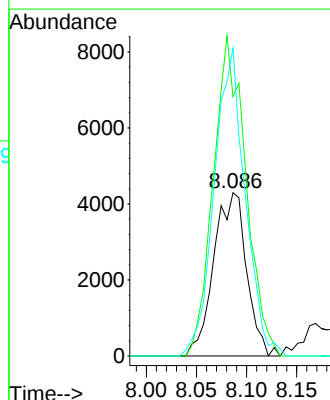
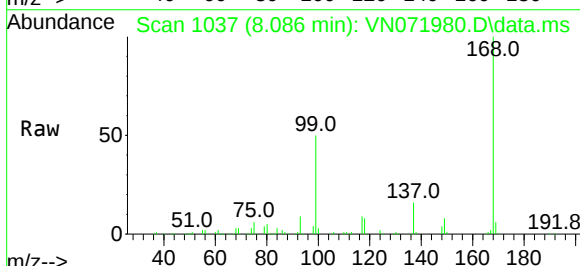
RT: 8.086 min Scan# 1037

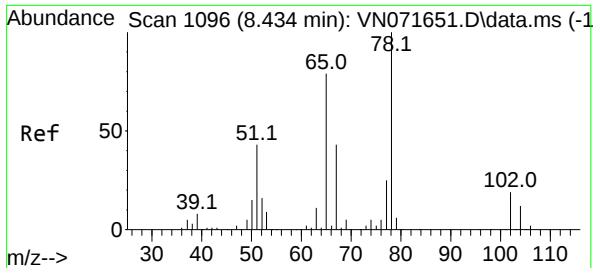
Delta R.T. -0.006 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Tgt Ion:	56	Resp:	9790
Ion	Ratio	Lower	Upper
56	100		
69	158.9	27.8	41.8#
84	188.6	76.9	115.3#





#33

1,2-Dichloroethane-d4

Concen: 47.548 ug/l

RT: 8.433 min Scan# 1096

Delta R.T. -0.001 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Instrument :

MSVOA_N

ClientSampleId :

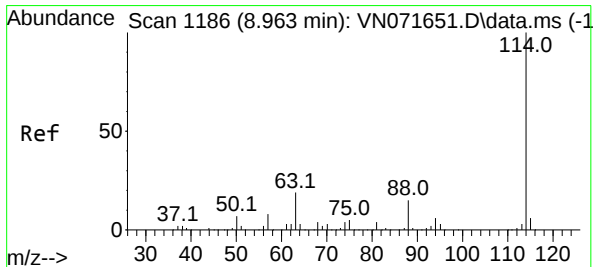
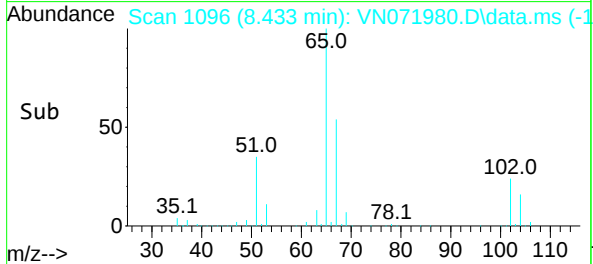
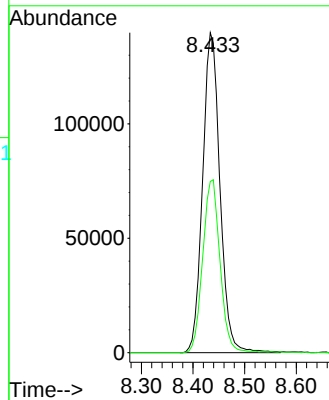
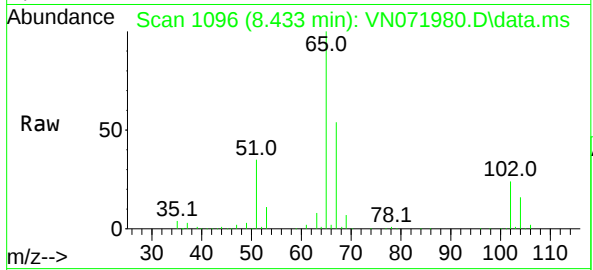
DEL-4

Tgt Ion: 65 Resp: 325976

Ion Ratio Lower Upper

65 100

67 54.0 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: VN071980.D

Acq: 13 Apr 2022 16:52

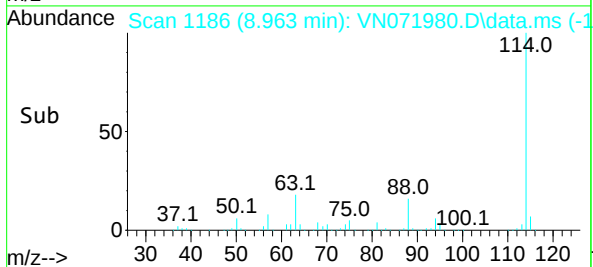
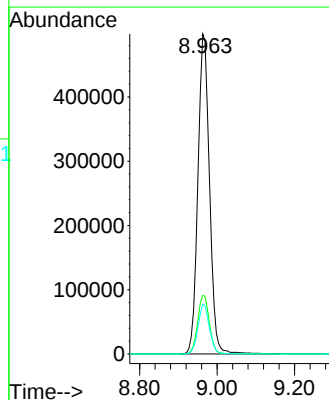
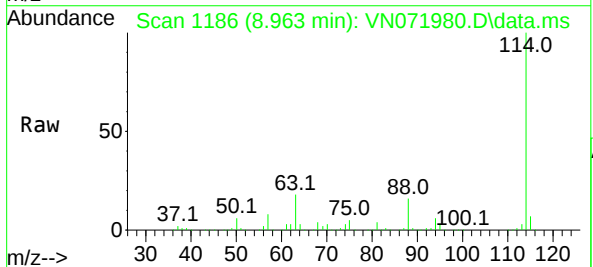
Tgt Ion: 114 Resp: 1034669

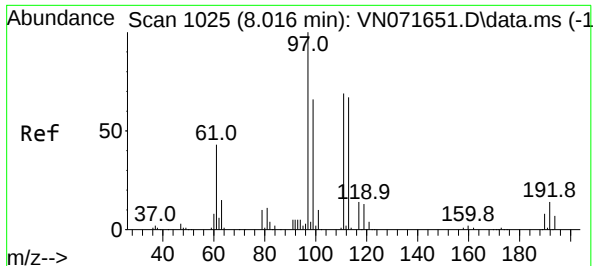
Ion Ratio Lower Upper

114 100

63 18.3 0.0 40.0

88 15.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.113 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.006 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Instrument :

MSVOA_N

ClientSampleId :

DEL-4

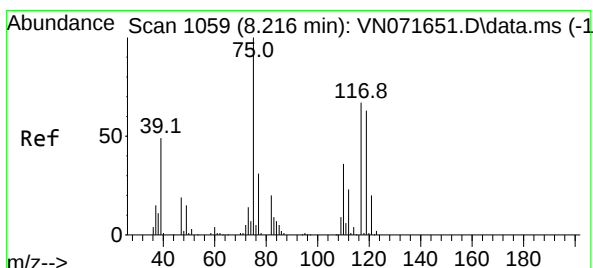
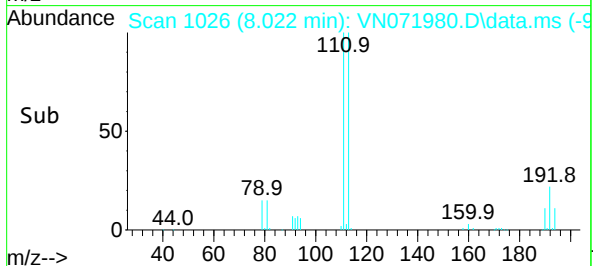
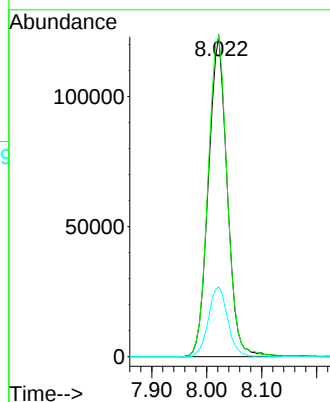
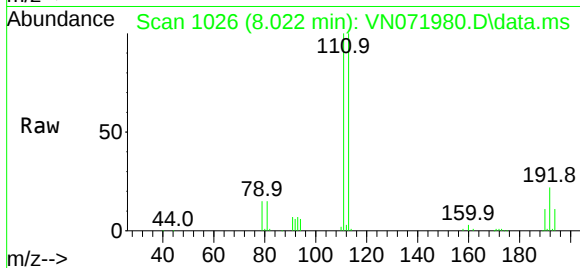
Tgt Ion:113 Resp: 292934

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

192 22.4 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.793 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

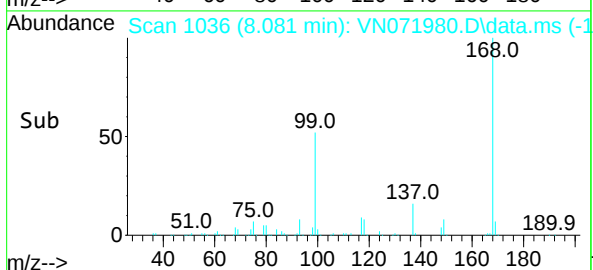
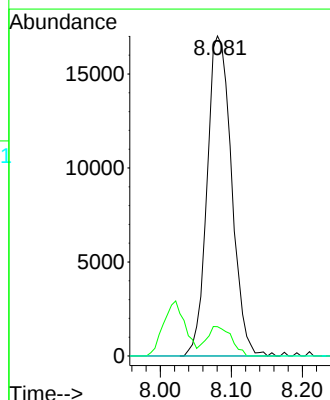
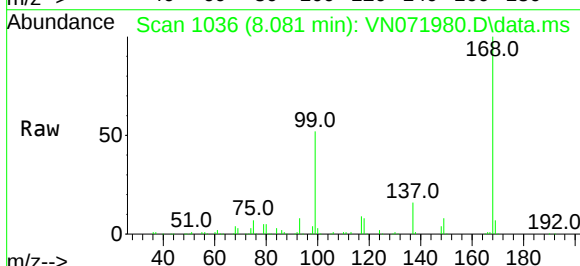
Tgt Ion: 75 Resp: 40750

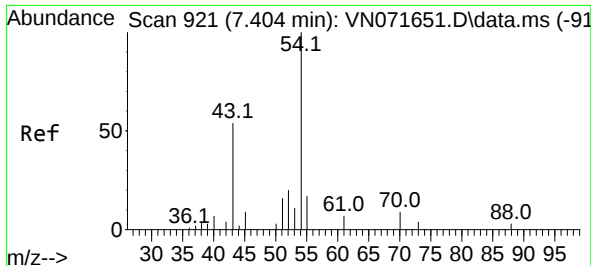
Ion Ratio Lower Upper

75 100

110 9.4 18.3 54.8#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 2.271 ug/l

RT: 7.333 min Scan# 90

Delta R.T. -0.071 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Instrument :

MSVOA_N

ClientSampleId :

DEL-4

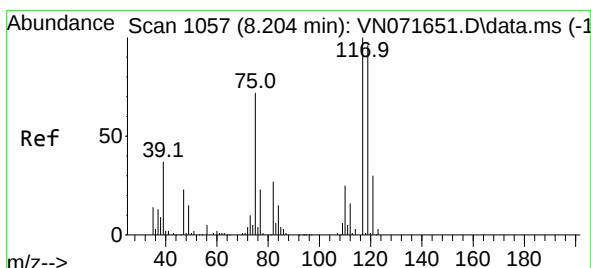
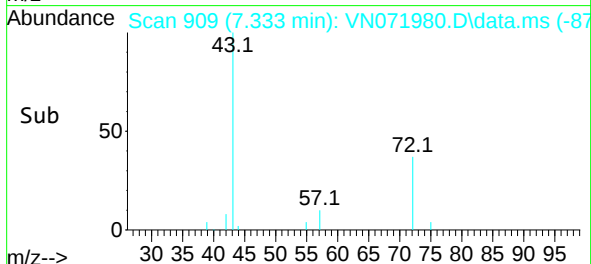
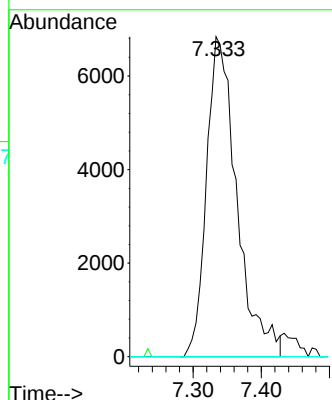
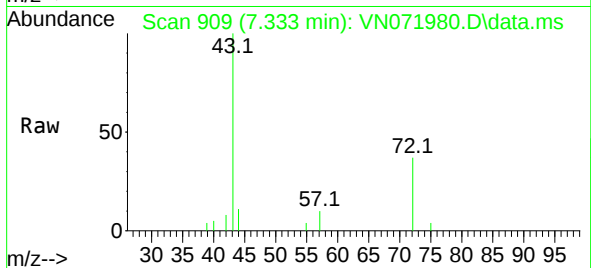
Tgt Ion: 43 Resp: 21130

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

70 0.0 9.3 13.9#



#38

Carbon Tetrachloride

Concen: 6.331 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.118 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

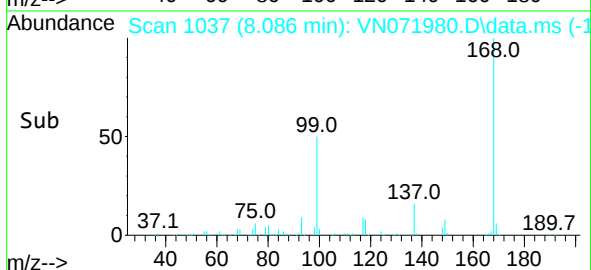
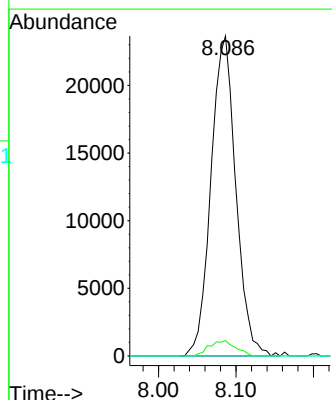
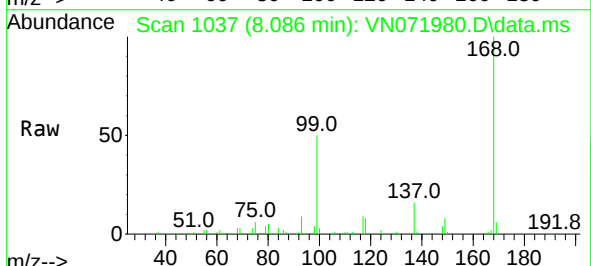
Tgt Ion: 117 Resp: 52750

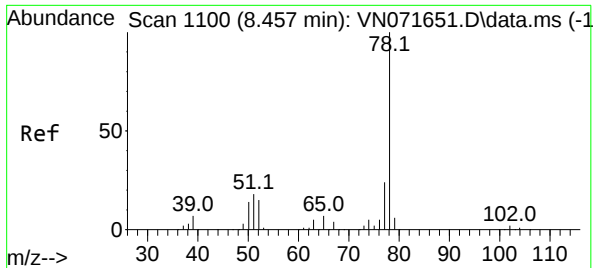
Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.8#

121 0.0 24.6 37.0#

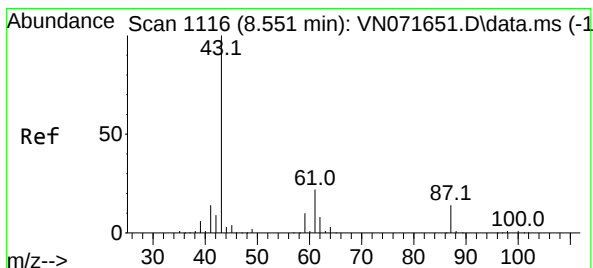
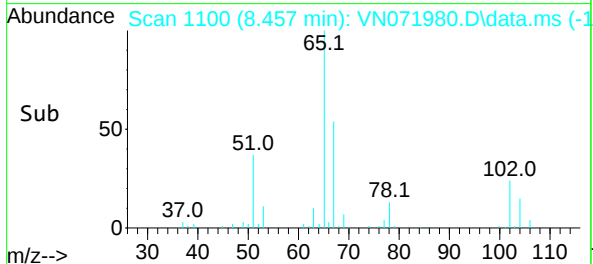
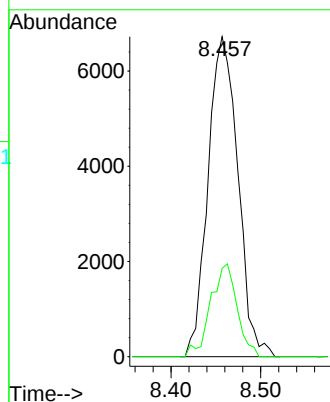
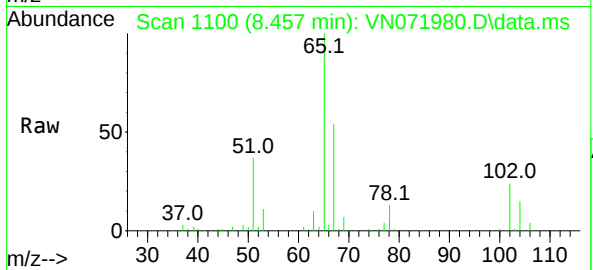




#40
Benzene
Concen: 0.579 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

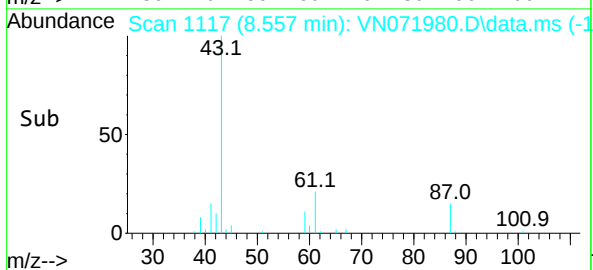
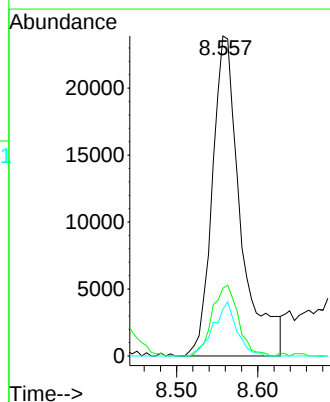
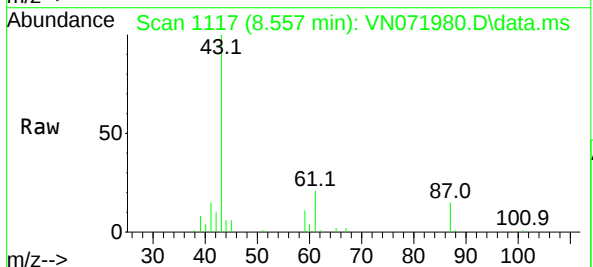
Instrument :
MSVOA_N
ClientSampleId :
DEL-4

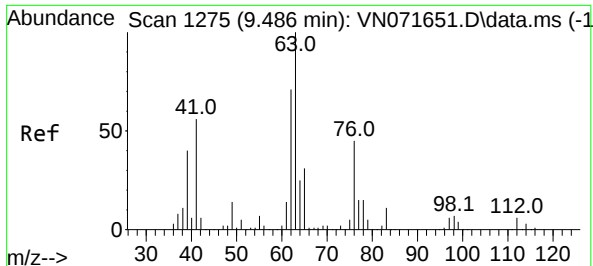
Tgt Ion: 78 Resp: 15546
Ion Ratio Lower Upper
78 100
77 27.6 19.4 29.0



#43
Isopropyl Acetate
Concen: 3.752 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

Tgt Ion: 43 Resp: 58081
Ion Ratio Lower Upper
43 100
61 20.4 21.9 32.9#
87 14.0 12.0 18.0





#45

1,2-Dichloropropane

Concen: 0.353 ug/l

RT: 9.616 min Scan# 1297

Delta R.T. 0.130 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Instrument :

MSVOA_N

ClientSampleId :

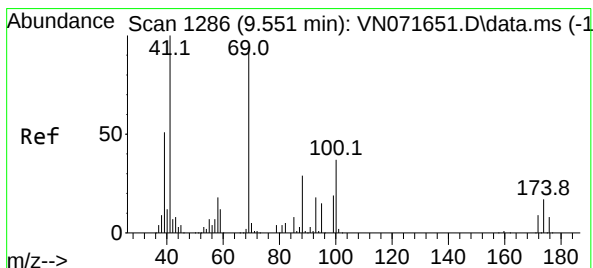
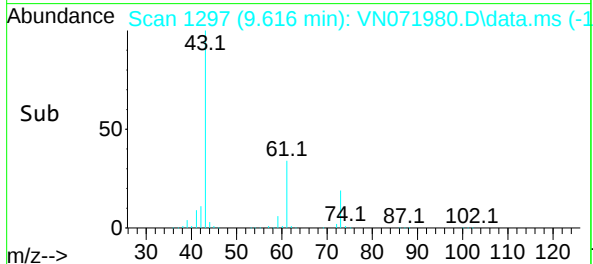
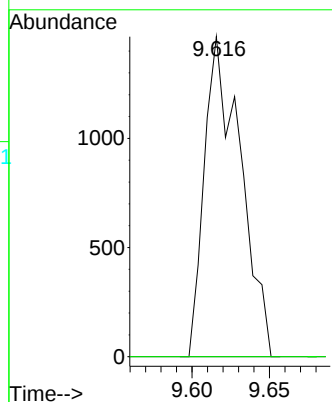
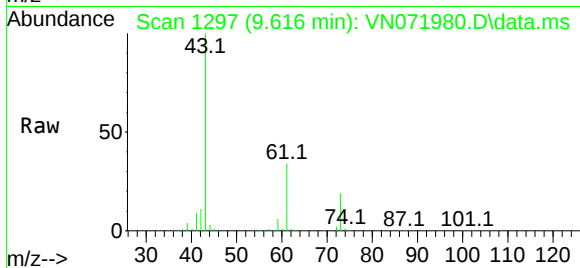
DEL-4

Tgt Ion: 63 Resp: 2367

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.409 ug/l

RT: 9.545 min Scan# 1285

Delta R.T. -0.006 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

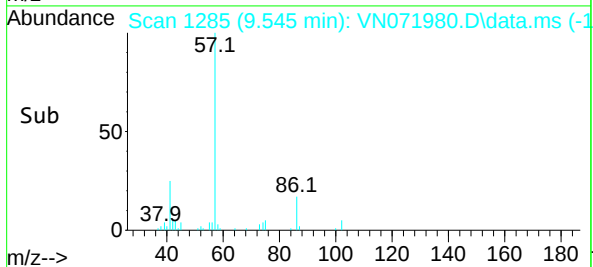
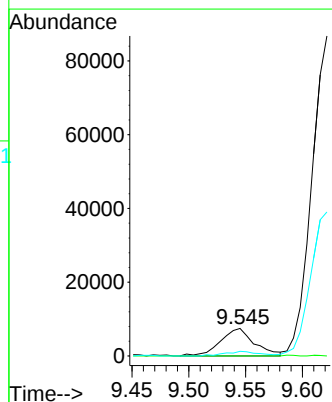
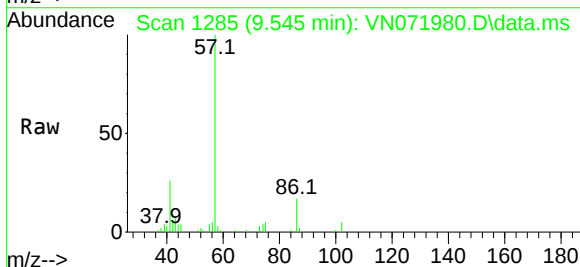
Tgt Ion: 41 Resp: 15472

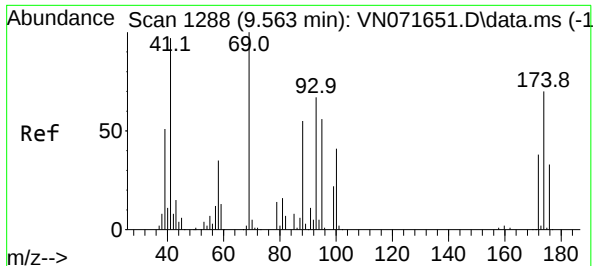
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 16.9 45.6 68.4#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.627 min Scan# 1288

Delta R.T. 0.064 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Instrument :

MSVOA_N

ClientSampleId :

DEL-4

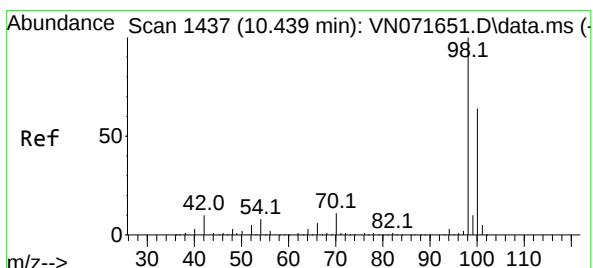
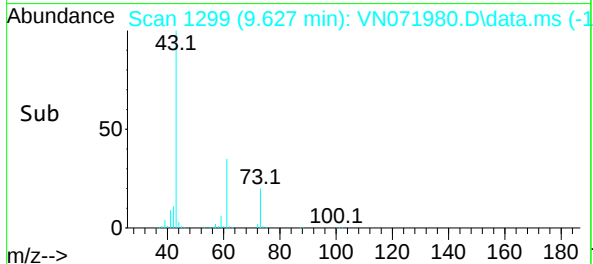
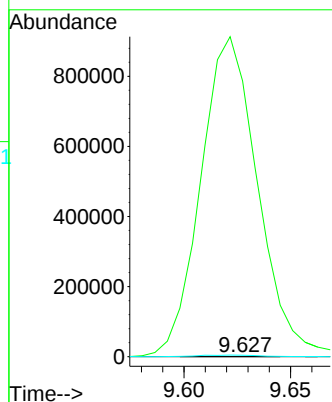
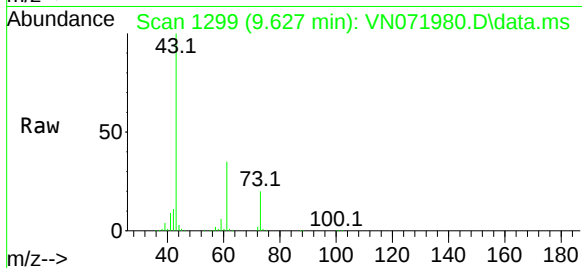
Tgt Ion: 88 Resp: 352

Ion Ratio Lower Upper

88 100

43 492444.6 20.2 30.4#

58 2741.2 54.2 81.4#



#50

Toluene-d8

Concen: 53.737 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN071980.D

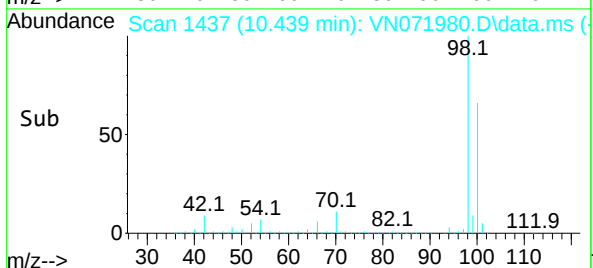
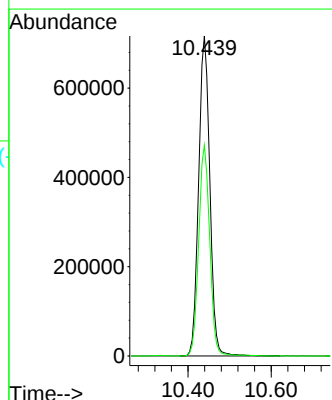
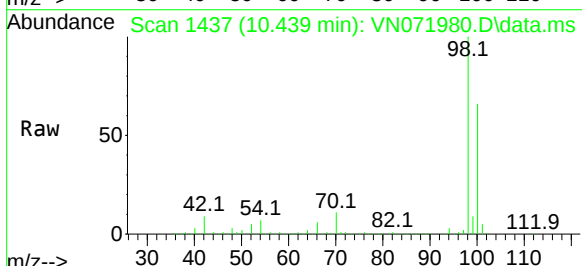
Acq: 13 Apr 2022 16:52

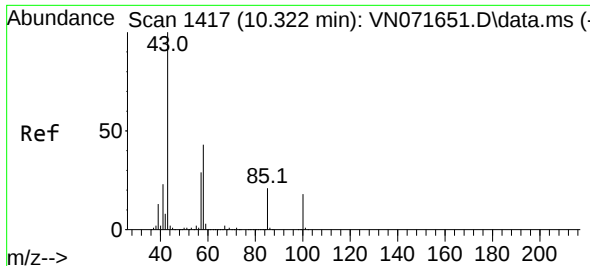
Tgt Ion: 98 Resp: 1338406

Ion Ratio Lower Upper

98 100

100 65.3 52.6 78.8

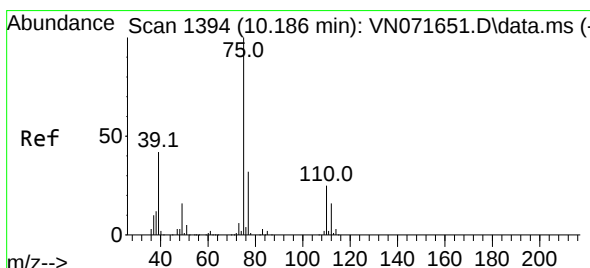
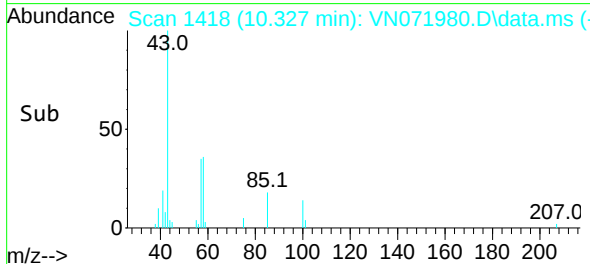
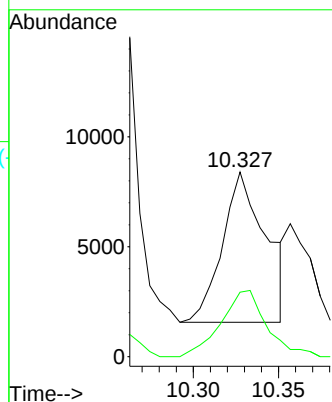
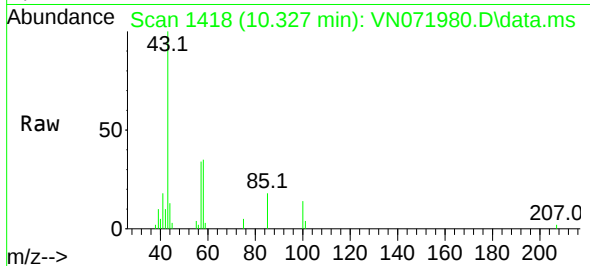




#51
4-Methyl-2-Pentanone
Concen: 1.362 ug/l
RT: 10.327 min Scan# 1417
Delta R.T. 0.005 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

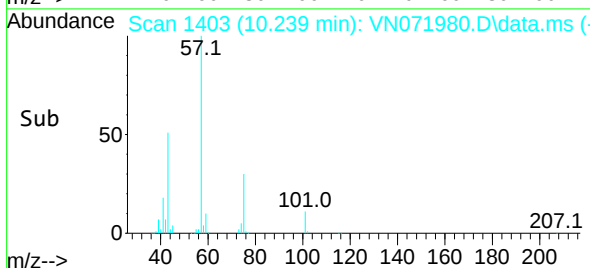
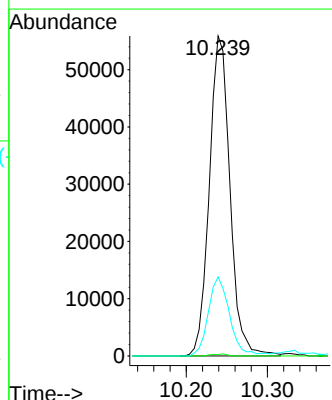
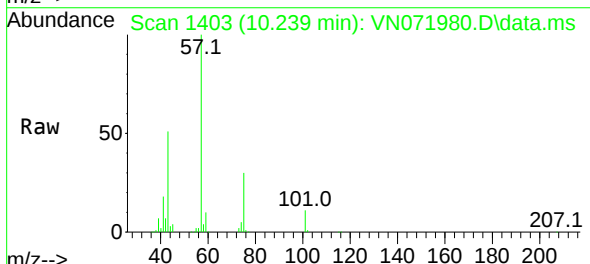
Instrument :
MSVOA_N
ClientSampleId :
DEL-4

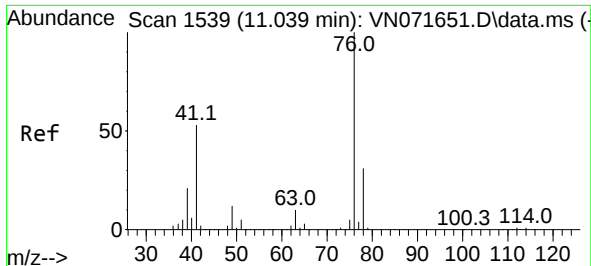
Tgt Ion: 43 Resp: 12122
Ion Ratio Lower Upper
43 100
58 46.4 34.1 51.1



#54
cis-1,3-Dichloropropene
Concen: 9.502 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.053 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

Tgt Ion: 75 Resp: 98671
Ion Ratio Lower Upper
75 100
77 0.4 25.2 37.8#
39 24.7 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 5.009 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Instrument :

MSVOA_N

ClientSampleId :

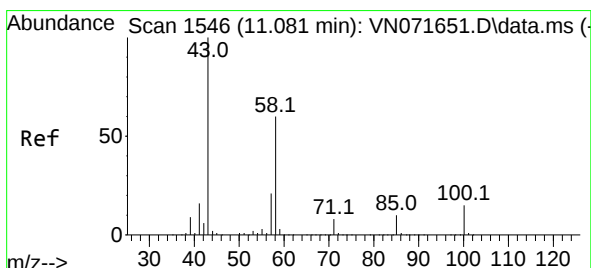
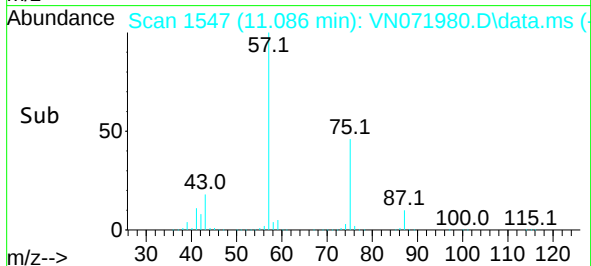
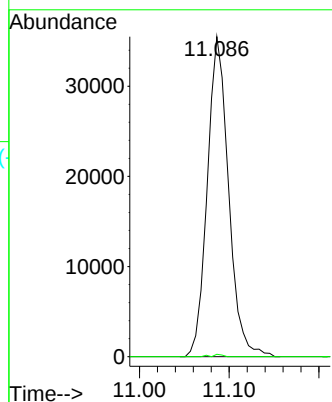
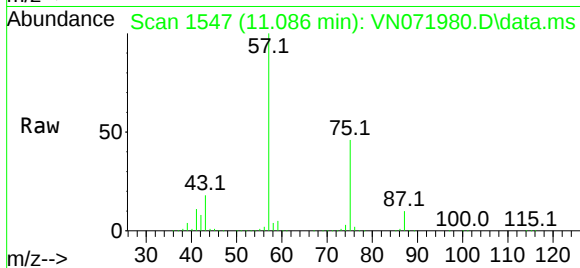
DEL-4

Tgt Ion: 76 Resp: 58517

Ion Ratio Lower Upper

76 100

78 0.4 26.2 39.2#



#59

2-Hexanone

Concen: 110.626 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.005 min

Lab File: VN071980.D

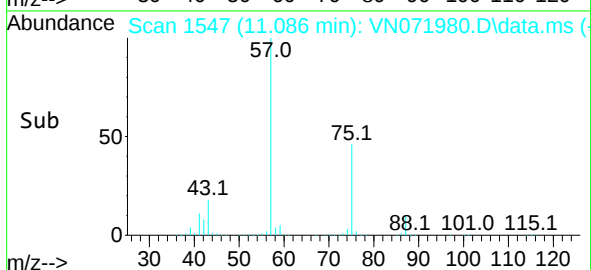
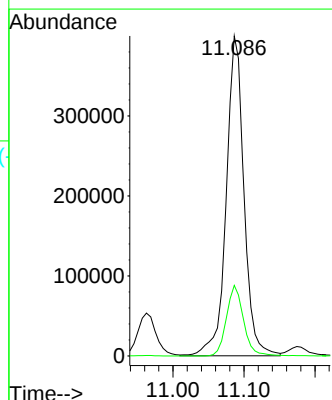
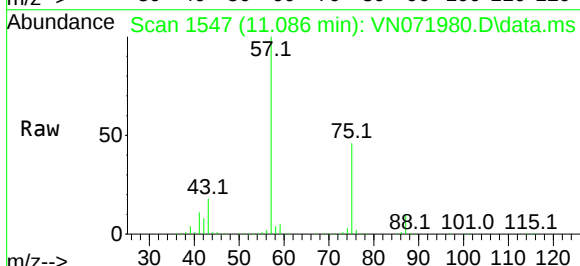
Acq: 13 Apr 2022 16:52

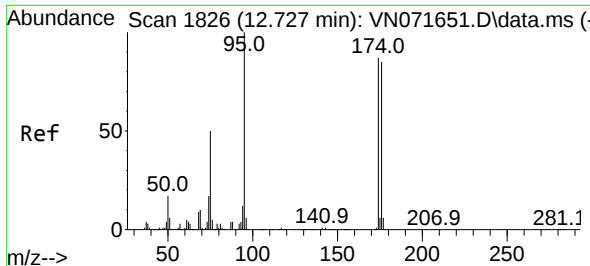
Tgt Ion: 43 Resp: 693144

Ion Ratio Lower Upper

43 100

58 21.2 29.7 89.1#

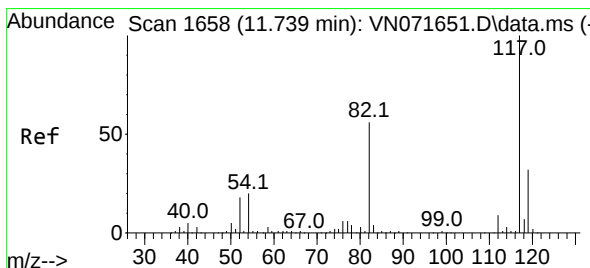
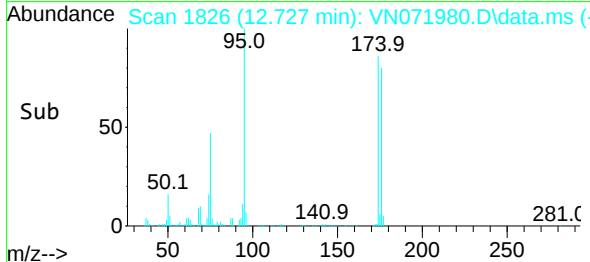
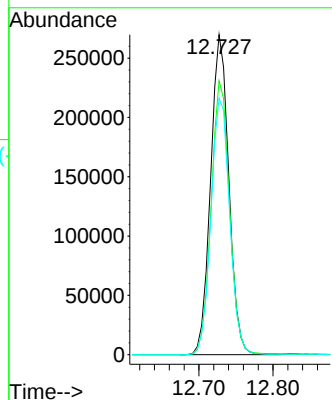
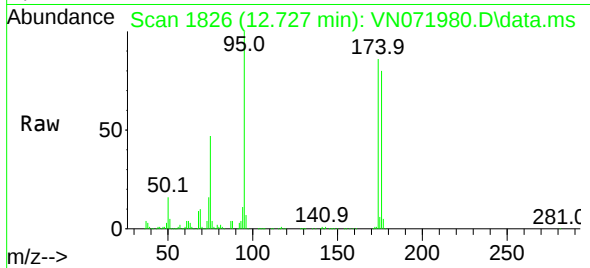




#62
4-Bromofluorobenzene
Concen: 57.198 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

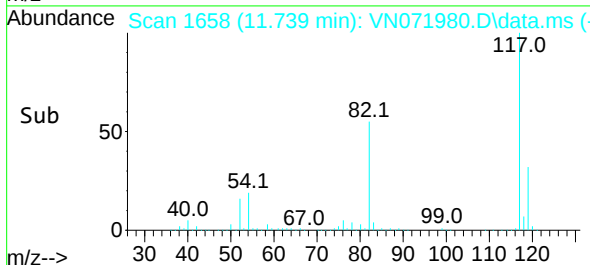
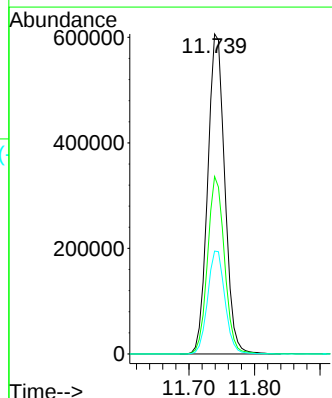
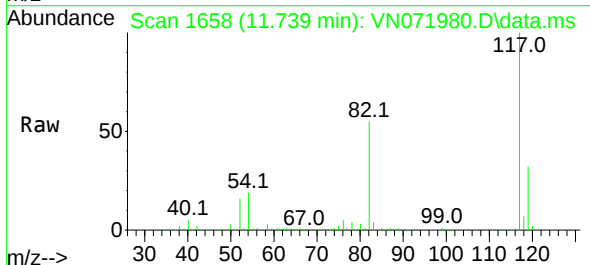
Instrument :
MSVOA_N
ClientSampleId :
DEL-4

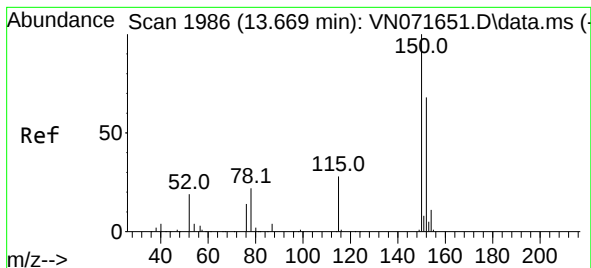
Tgt Ion: 95 Resp: 460736
Ion Ratio Lower Upper
95 100
174 86.4 0.0 167.6
176 82.3 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

Tgt Ion: 117 Resp: 1099426
Ion Ratio Lower Upper
117 100
82 55.5 44.2 66.2
119 32.1 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: VN071980.D

Acq: 13 Apr 2022 16:52

Instrument :

MSVOA_N

ClientSampleId :

DEL-4

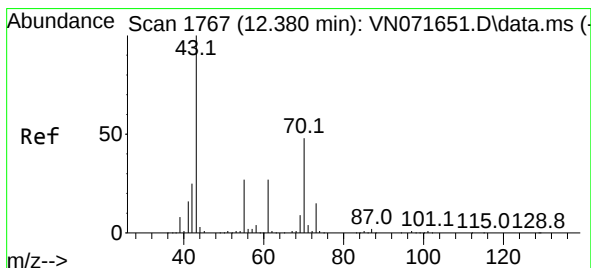
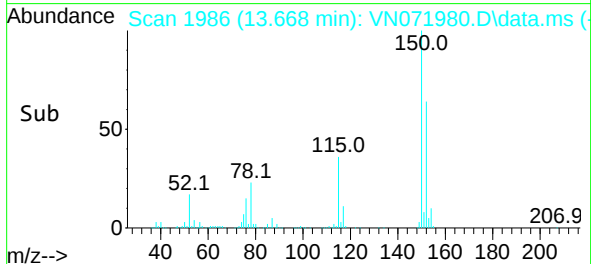
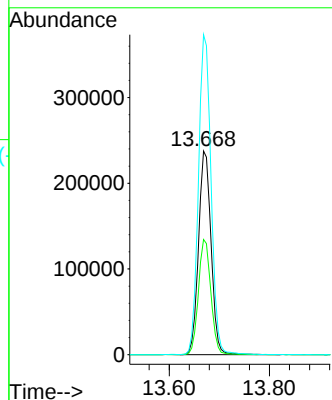
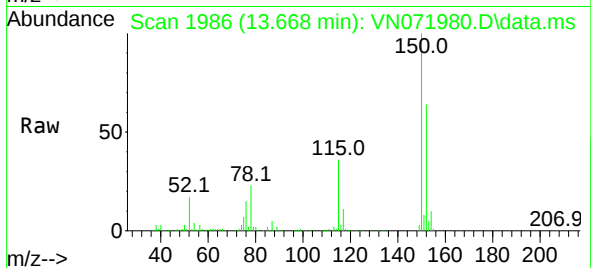
Tgt Ion:152 Resp: 412762

Ion Ratio Lower Upper

152 100

115 56.2 28.9 86.7

150 157.4 0.0 356.2



#74

N-ethyl acetate

Concen: 1.133 ug/l

RT: 12.351 min Scan# 1762

Delta R.T. -0.029 min

Lab File: VN071980.D

Acq: 13 Apr 2022 16:52

Tgt Ion: 43 Resp: 11294

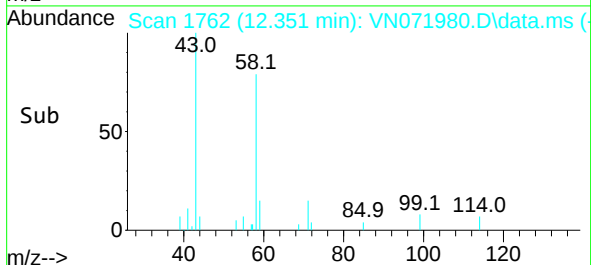
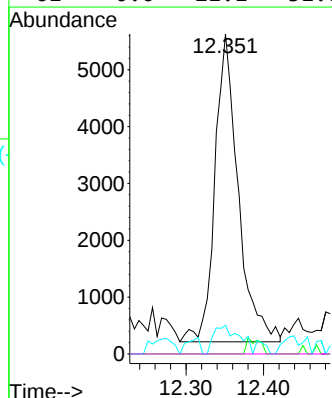
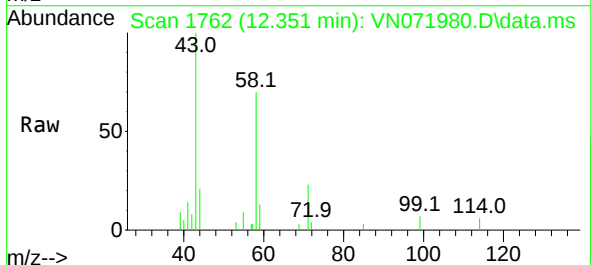
Ion Ratio Lower Upper

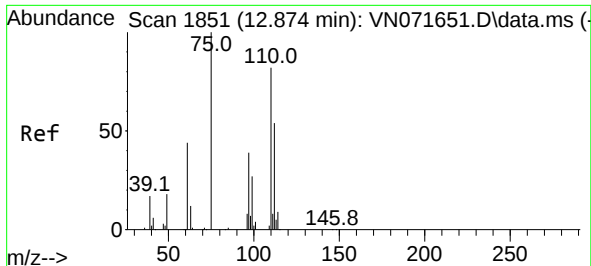
43 100

70 0.0 39.0 58.4#

55 10.1 21.1 31.7#

61 0.0 21.1 31.7#

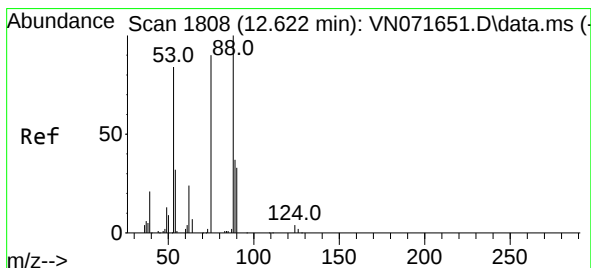
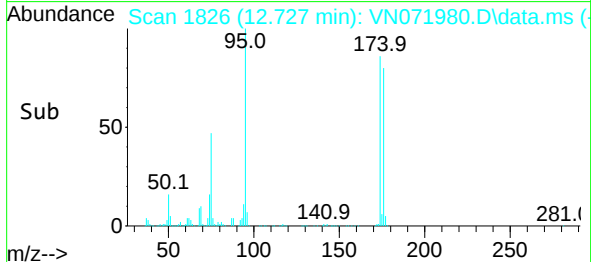
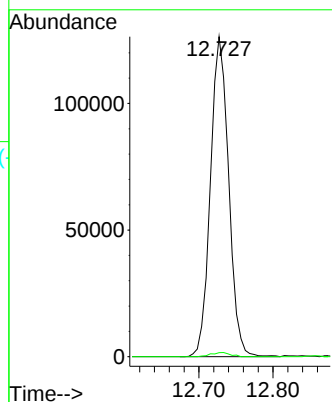
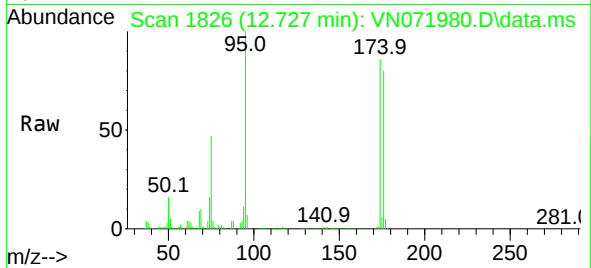




#76
1,2,3-Trichloropropane
Concen: 22.584 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

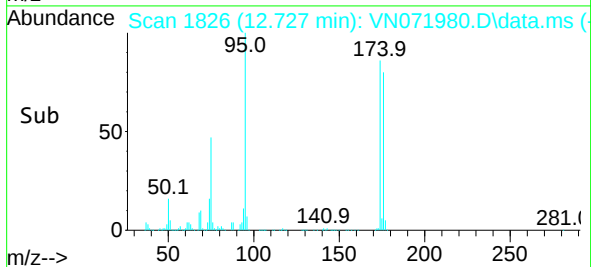
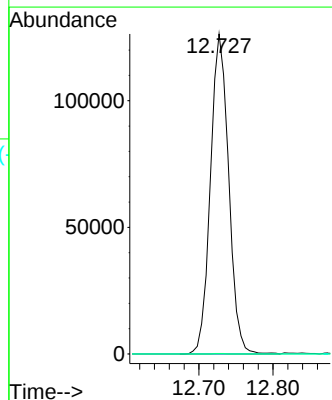
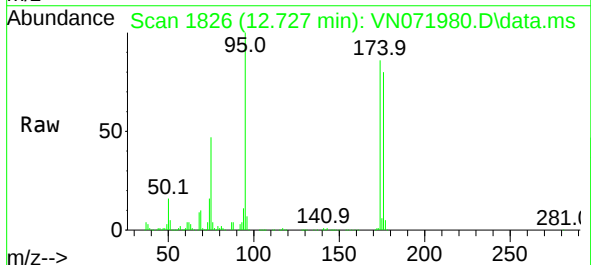
Instrument :
MSVOA_N
ClientSampleId :
DEL-4

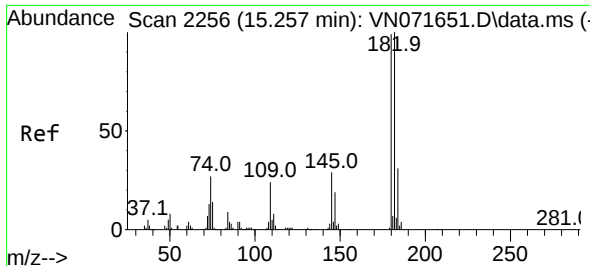
Tgt Ion: 75 Resp: 215945
Ion Ratio Lower Upper
75 100
77 1.3 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.986 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

Tgt Ion: 75 Resp: 215945
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#

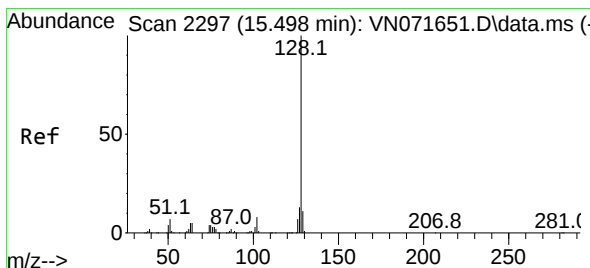
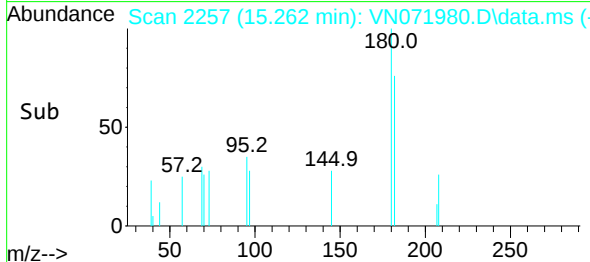
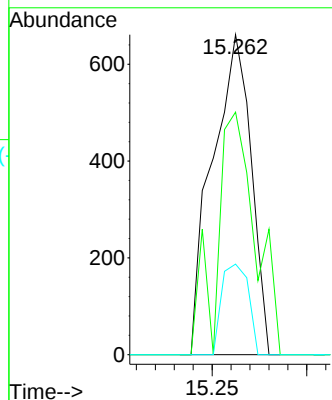
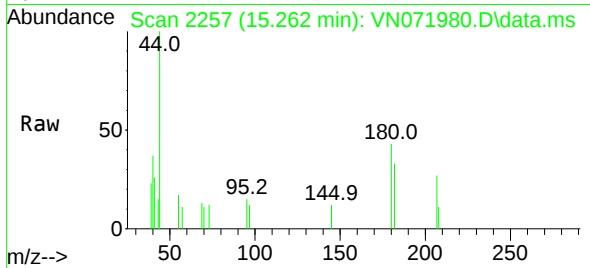




#93
1,2,4-Trichlorobenzene
Concen: 2.223 ug/l
RT: 15.262 min Scan# 21
Delta R.T. 0.005 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

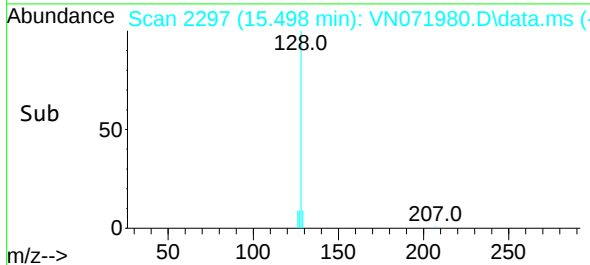
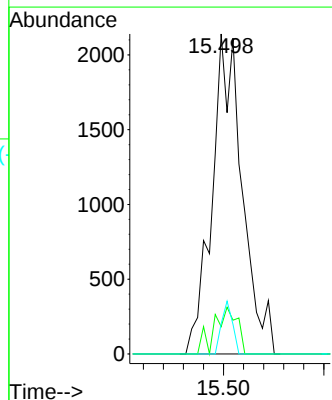
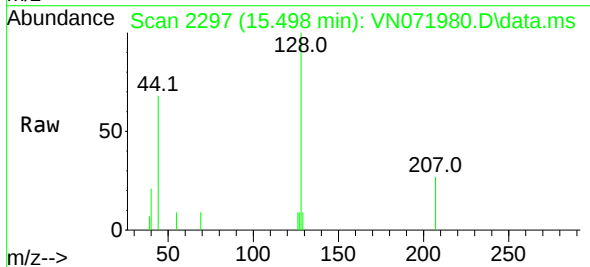
Instrument :
MSVOA_N
ClientSampleId :
DEL-4

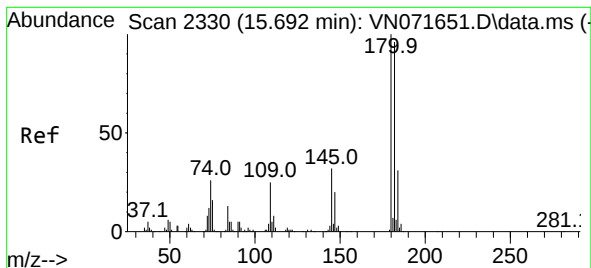
Tgt Ion:180 Resp: 939
Ion Ratio Lower Upper
180 100
182 75.6 47.5 142.5
145 19.5 14.5 43.5



#95
Naphthalene
Concen: 4.023 ug/l
RT: 15.498 min Scan# 2297
Delta R.T. -0.000 min
Lab File: VN071980.D
Acq: 13 Apr 2022 16:52

Tgt Ion:128 Resp: 4471
Ion Ratio Lower Upper
128 100
127 11.1 10.3 15.5
129 5.9 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.568 ug/l
 RT: 15.698 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN071980.D
 Acq: 13 Apr 2022 16:52

Instrument :
 MSVOA_N
 ClientSampleId :
 DEL-4

Tgt Ion:180 Resp: 1029
 Ion Ratio Lower Upper
 180 100
 182 99.1 47.8 143.3
 145 5.2 15.5 46.5#

