

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031922\
 Data File : VN071409.D
 Acq On : 19 Mar 2022 19:44
 Operator : JC\MD
 Sample : N1962-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 C-17-16-17

Quant Time: Mar 21 05:54:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

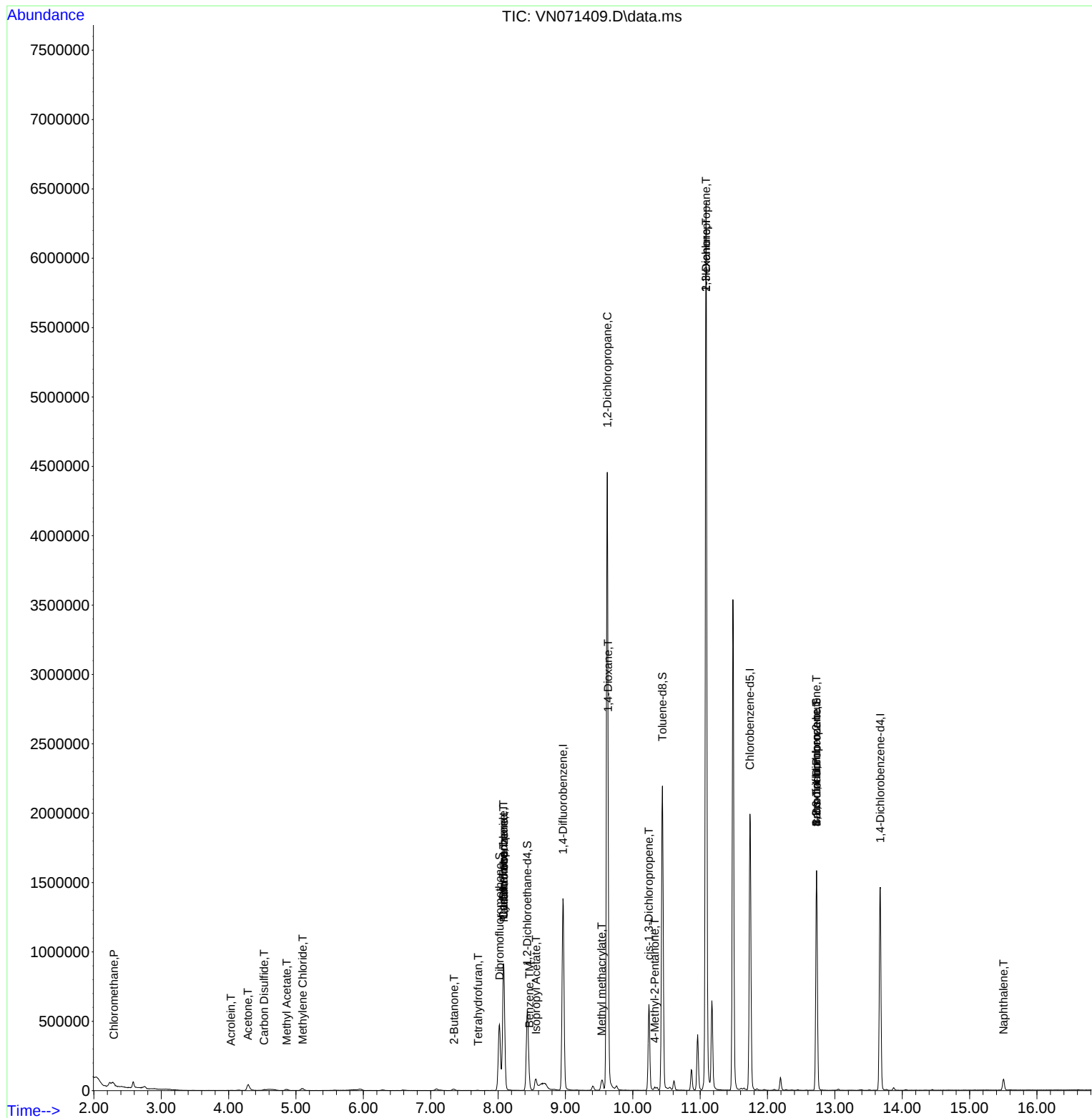
Internal Standards						
1) Pentafluorobenzene	8.086	168	696084	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1183496	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1143137	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	402999	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	468022	49.058	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.120%		
35) Dibromofluoromethane	8.022	113	346680	46.420	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.840%		
50) Toluene-d8	10.439	98	1507818	50.144	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.280%		
62) 4-Bromofluorobenzene	12.727	95	548078	53.827	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	107.660%		
Target Compounds					Qvalue	
3) Chloromethane	2.299	50	4049	0.361	ug/l #	77
5) Bromomethane	2.852	94	664	Below Cal	#	72
13) Acrolein	4.034	56	850	0.429	ug/l #	43
16) Acetone	4.287	43	76181	16.412	ug/l	96
17) Carbon Disulfide	4.528	76	7221	0.363	ug/l	97
18) Methyl Acetate	4.863	43	18183	1.915	ug/l	92
20) Methylene Chloride	5.098	84	11712	1.752	ug/l #	79
25) 2-Butanone	7.345	43	19961	2.669	ug/l	98
29) Tetrahydrofuran	7.704	42	1467	0.283	ug/l #	78
31) Cyclohexane	8.081	56	15162	0.995	ug/l #	9
36) 1,1-Dichloropropene	8.081	75	55469	4.636	ug/l #	49
38) Carbon Tetrachloride	8.081	117	66880	5.778	ug/l #	16
40) Benzene	8.463	78	34230	0.949	ug/l	99
43) Isopropyl Acetate	8.563	43	106362	4.319	ug/l #	81
45) 1,2-Dichloropropane	9.622	63	5369	0.555	ug/l #	44
48) Methyl methacrylate	9.539	41	23557	2.064	ug/l #	8
49) 1,4-Dioxane	9.633	88	596	3.004	ug/l #	1
51) 4-Methyl-2-Pentanone	10.328	43	14814	0.969	ug/l	98
54) cis-1,3-Dichloropropene	10.239	75	108731	7.499	ug/l #	63
57) 1,3-Dichloropropane	11.086	76	64657	4.049	ug/l #	43
59) 2-Hexanone	11.086	43	1021560	97.964	ug/l #	49
71) Bromoform	12.727	173	2349	0.344	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.739	83	369	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.727	75	281712	27.577	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	281712	75.566	ug/l #	5
95) Naphthalene	15.504	128	74769	8.705	ug/l	98

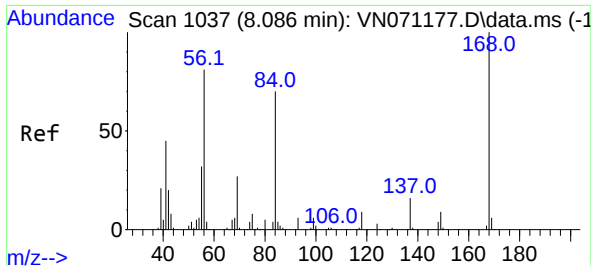
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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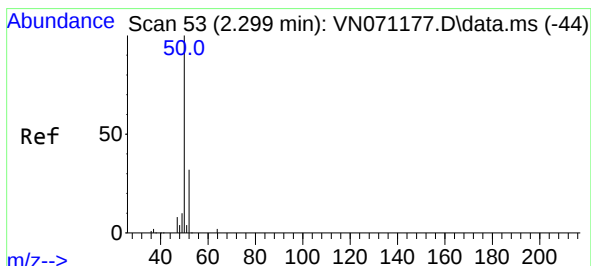
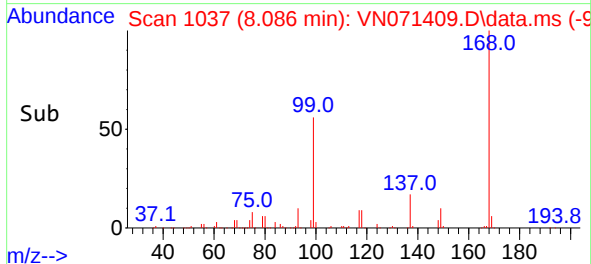
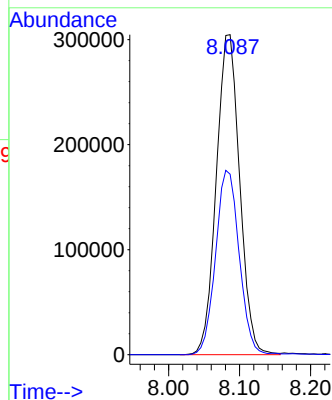
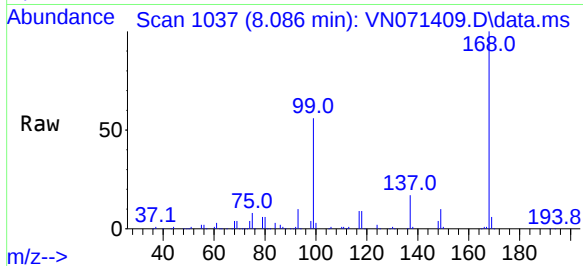




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

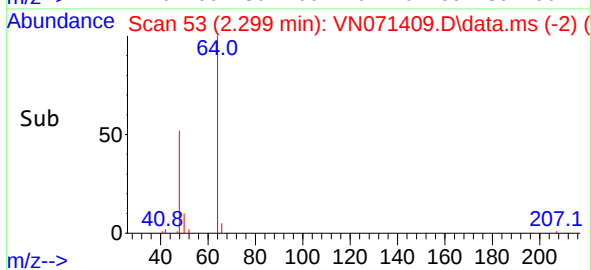
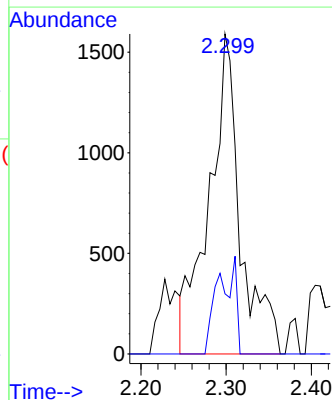
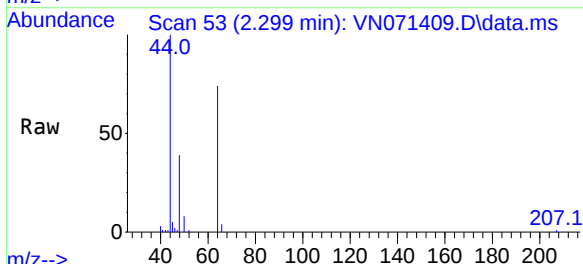
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

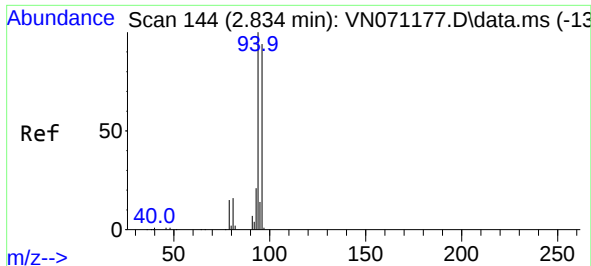
Tgt Ion:168 Resp: 696084
Ion Ratio Lower Upper
168 100
99 56.4 41.3 61.9



#3
Chloromethane
Concen: 0.361 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 50 Resp: 4049
Ion Ratio Lower Upper
50 100
52 18.8 25.4 38.0#

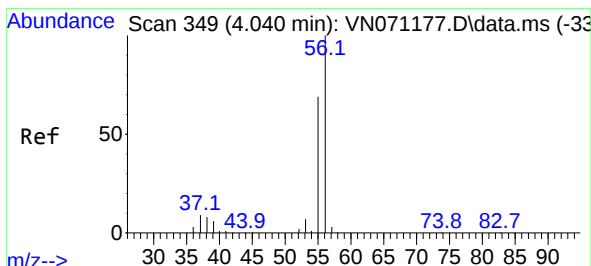
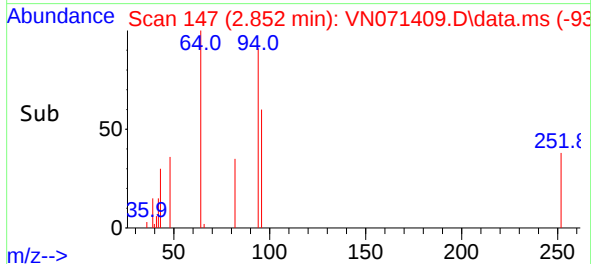
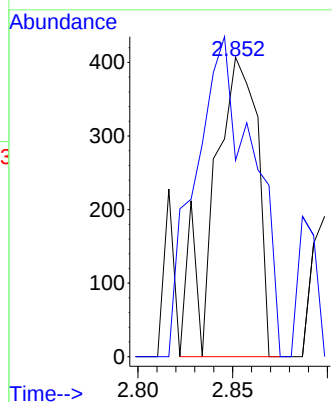
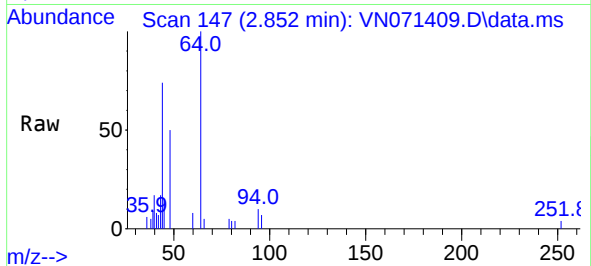




#5
Bromomethane
Concen: Below Cal
RT: 2.852 min Scan# 14
Delta R.T. 0.018 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

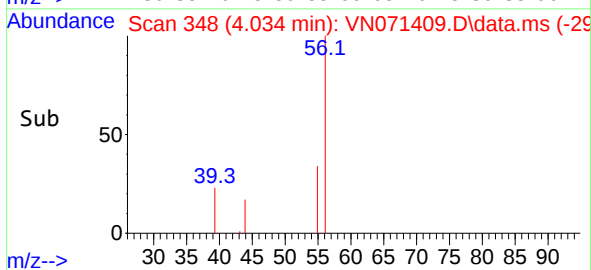
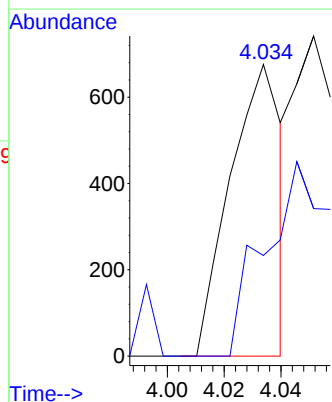
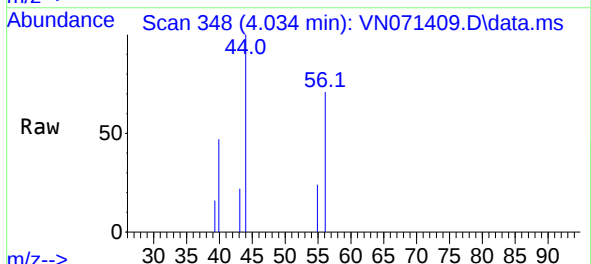
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

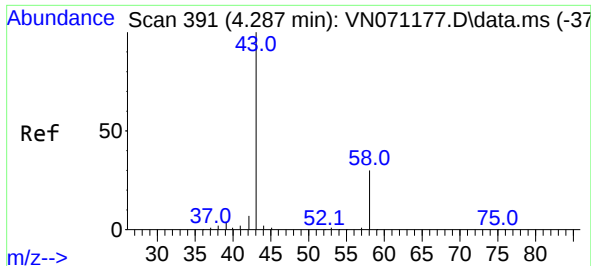
Tgt Ion: 94 Resp: 664
Ion Ratio Lower Upper
94 100
96 65.6 73.8 110.8#



#13
Acrolein
Concen: 0.429 ug/l
RT: 4.034 min Scan# 348
Delta R.T. -0.006 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 56 Resp: 850
Ion Ratio Lower Upper
56 100
55 118.2 56.6 85.0#

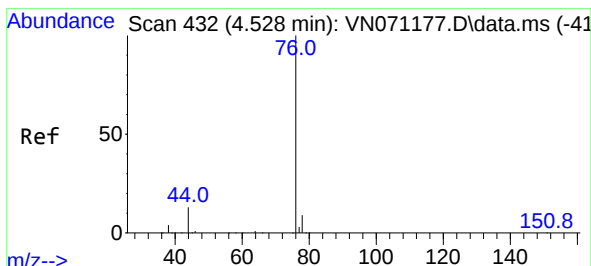
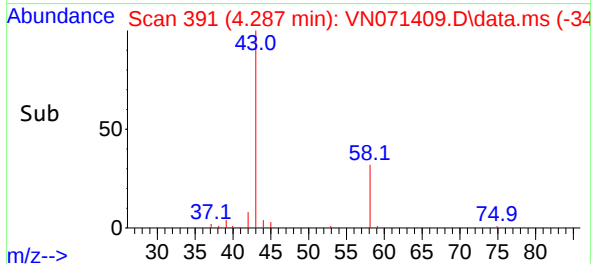
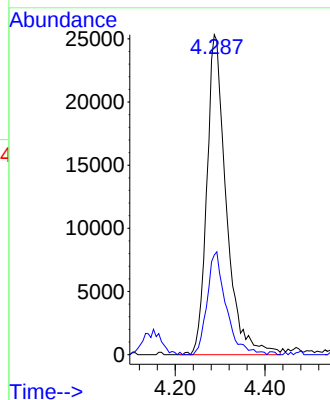
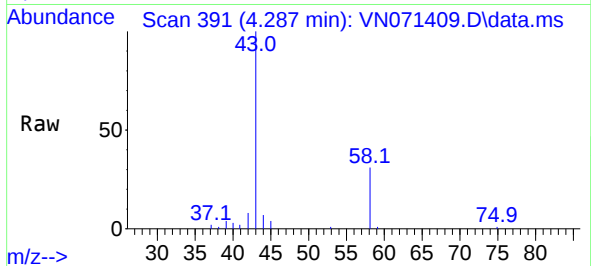




#16
Acetone
Concen: 16.412 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.000 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

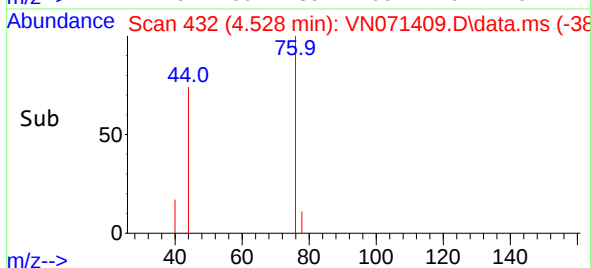
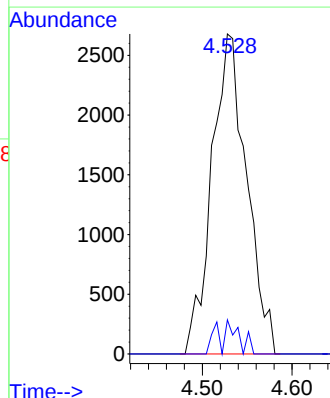
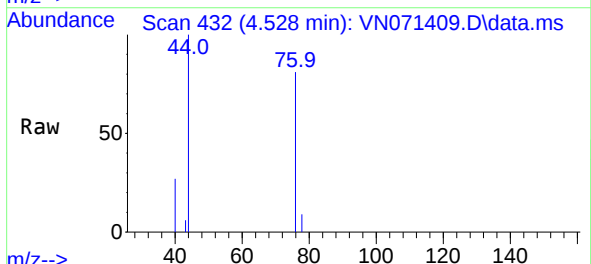
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

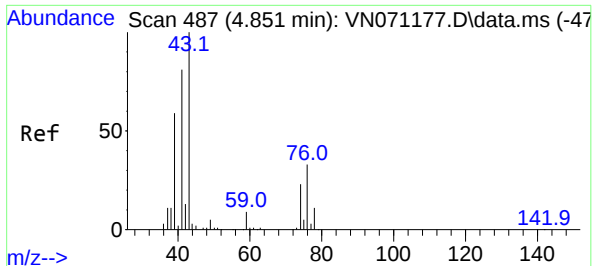
Tgt Ion: 43 Resp: 76181
Ion Ratio Lower Upper
43 100
58 31.2 23.1 34.7



#17
Carbon Disulfide
Concen: 0.363 ug/l
RT: 4.528 min Scan# 432
Delta R.T. 0.000 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 76 Resp: 7221
Ion Ratio Lower Upper
76 100
78 10.7 7.5 11.3

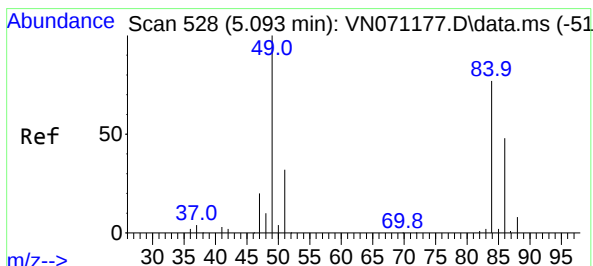
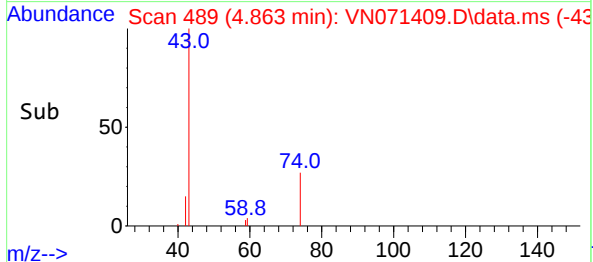
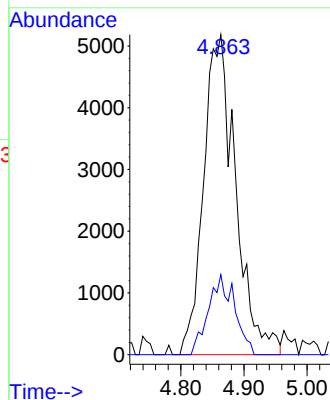
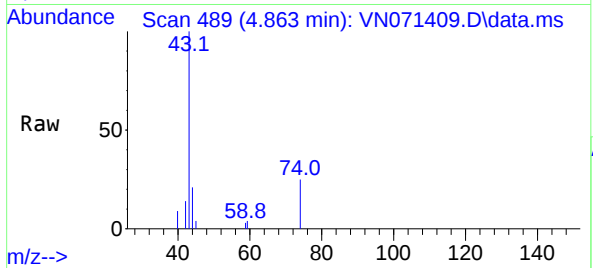




#18
Methyl Acetate
Concen: 1.915 ug/l
RT: 4.863 min Scan# 489
Delta R.T. 0.012 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

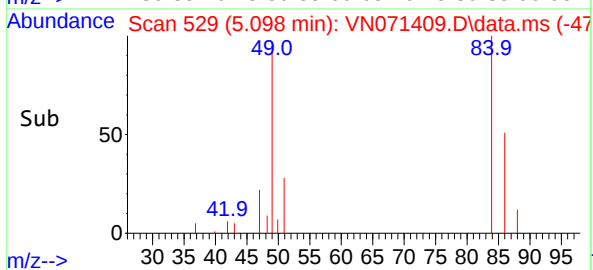
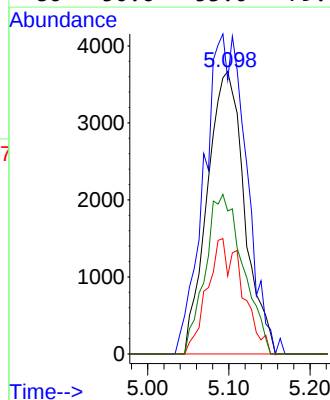
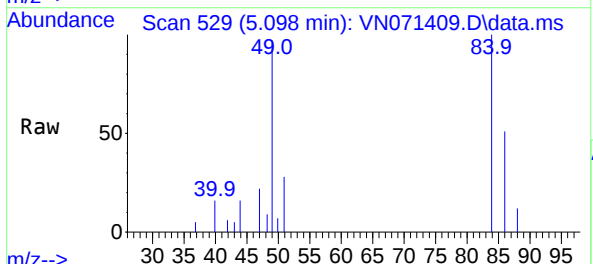
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

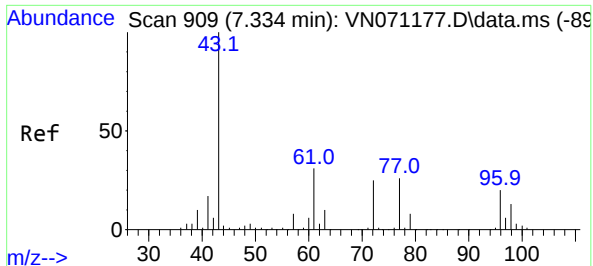
Tgt Ion: 43 Resp: 18183
Ion Ratio Lower Upper
43 100
74 20.5 19.4 29.2



#20
Methylene Chloride
Concen: 1.752 ug/l
RT: 5.098 min Scan# 529
Delta R.T. 0.005 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 84 Resp: 11712
Ion Ratio Lower Upper
84 100
49 91.5 93.5 140.3#
51 27.6 29.4 44.2#
86 50.6 53.0 79.4#





#25

2-Butanone

Concen: 2.669 ug/l

RT: 7.345 min Scan# 911

Delta R.T. 0.012 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

Instrument :

MSVOA_N

ClientSampleId :

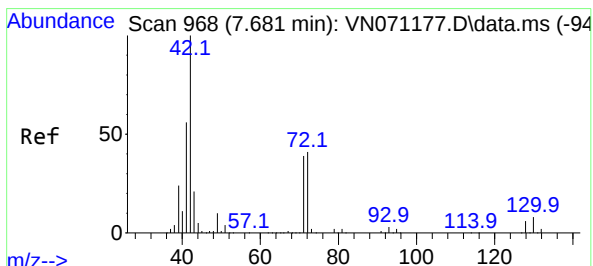
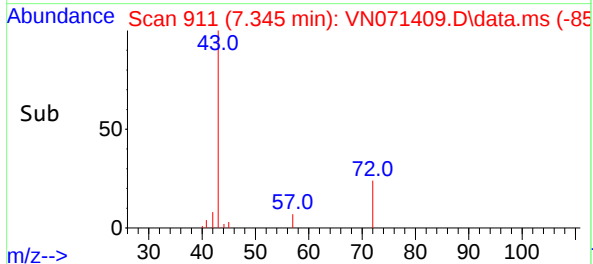
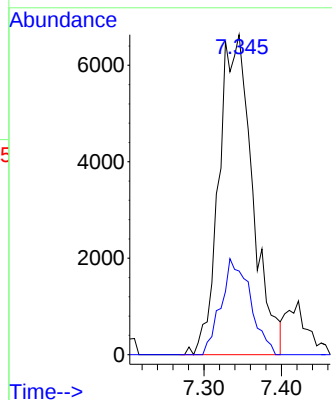
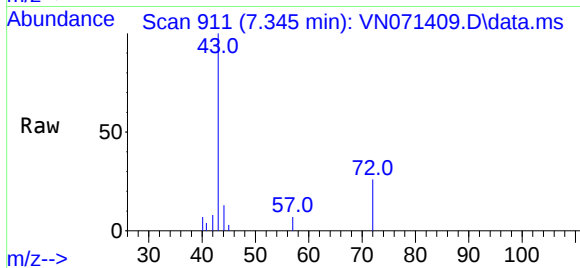
C-17-16-17

Tgt Ion: 43 Resp: 19961

Ion Ratio Lower Upper

43 100

72 26.1 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.283 ug/l

RT: 7.704 min Scan# 972

Delta R.T. 0.024 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

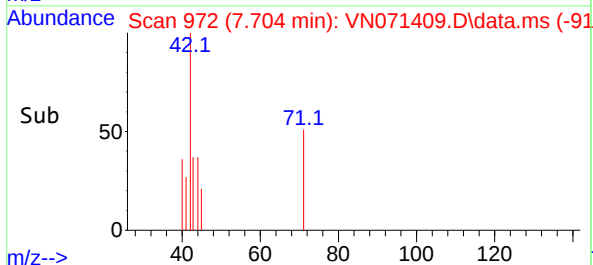
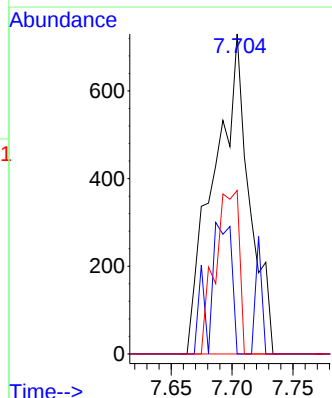
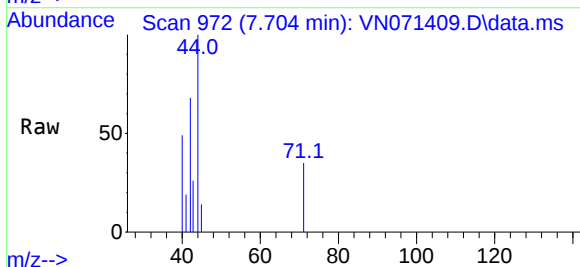
Tgt Ion: 42 Resp: 1467

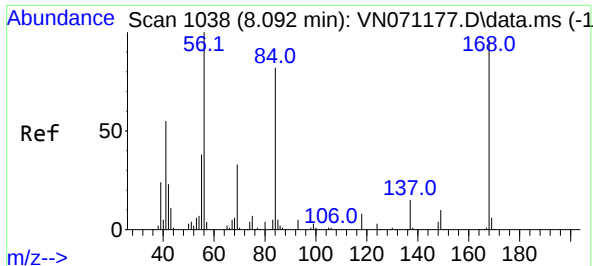
Ion Ratio Lower Upper

42 100

72 25.7 36.3 54.5#

71 34.8 34.7 52.1





#31

Cyclohexane

Concen: 0.995 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

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MSVOA_N

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C-17-16-17

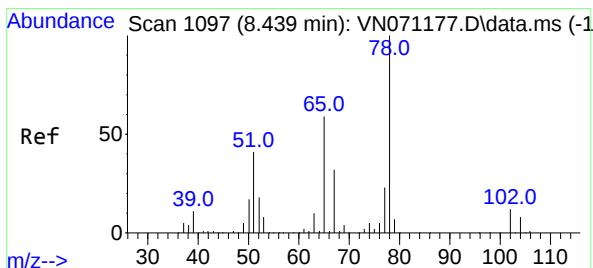
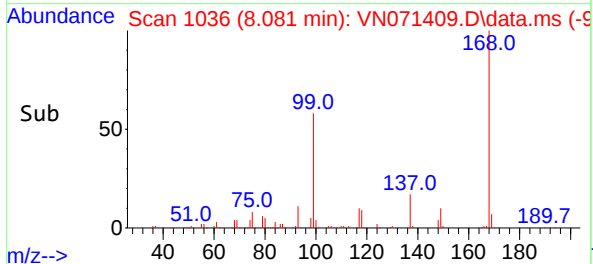
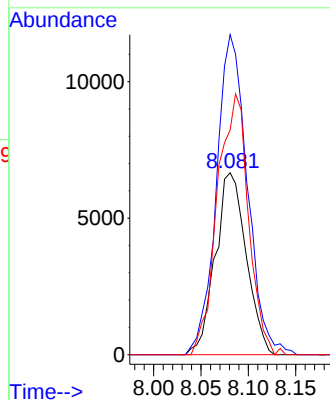
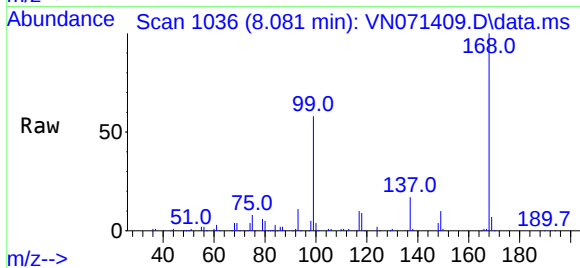
Tgt Ion: 56 Resp: 15162

Ion Ratio Lower Upper

56 100

69 175.8 27.1 40.7#

84 123.5 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 49.058 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071409.D

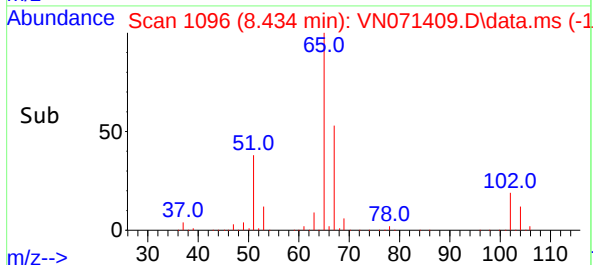
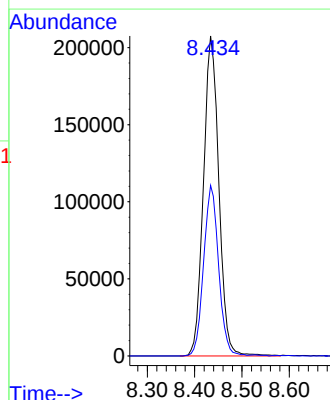
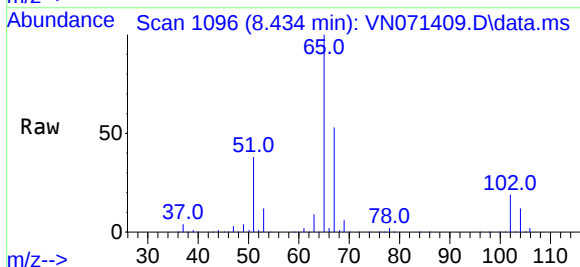
Acq: 19 Mar 2022 19:44

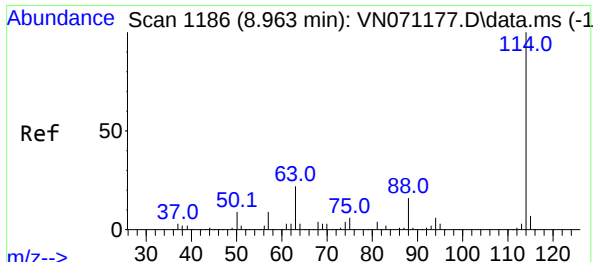
Tgt Ion: 65 Resp: 468022

Ion Ratio Lower Upper

65 100

67 51.7 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

Instrument :

MSVOA_N

ClientSampleId :

C-17-16-17

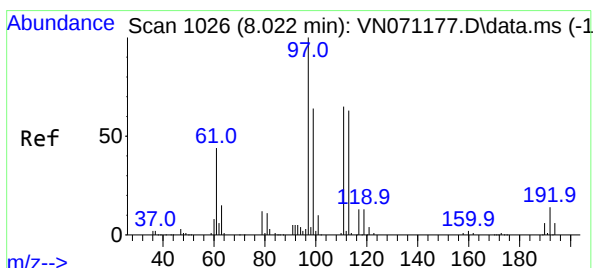
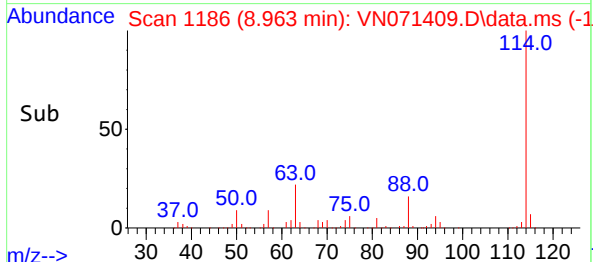
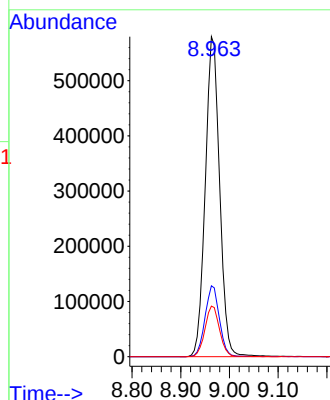
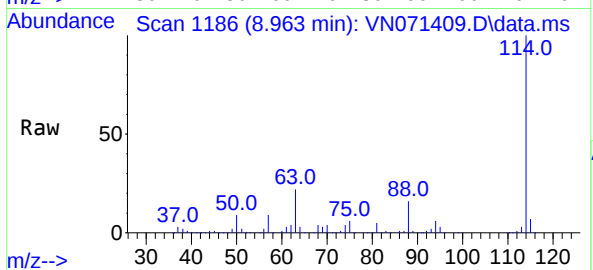
Tgt Ion:114 Resp: 1183496

Ion Ratio Lower Upper

114 100

63 22.2 0.0 37.8

88 15.8 0.0 27.4



#35

Dibromofluoromethane

Concen: 46.420 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.000 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

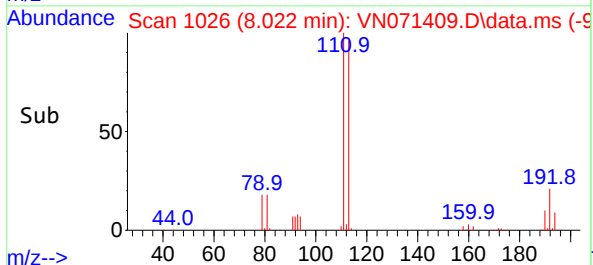
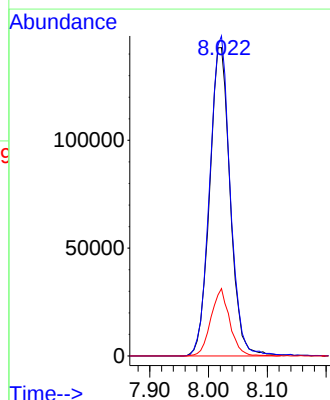
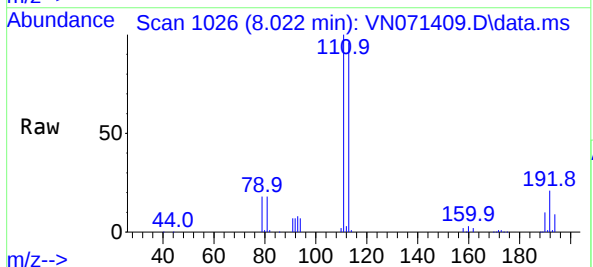
Tgt Ion:113 Resp: 346680

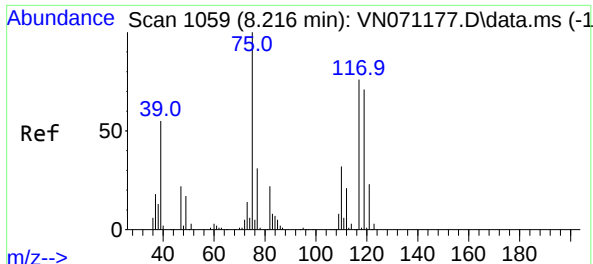
Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.2

192 20.0 16.9 25.3

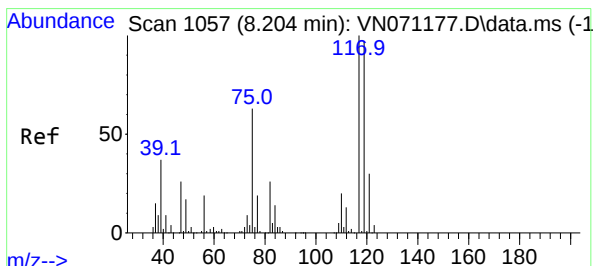
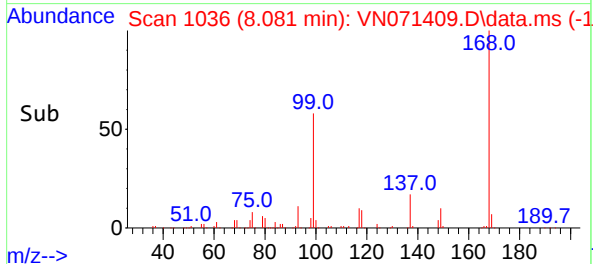
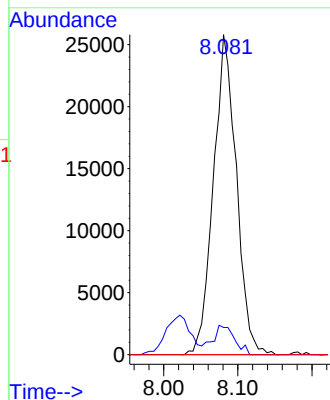
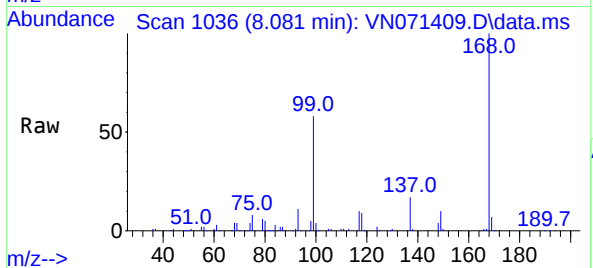




#36
1,1-Dichloropropene
Concen: 4.636 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

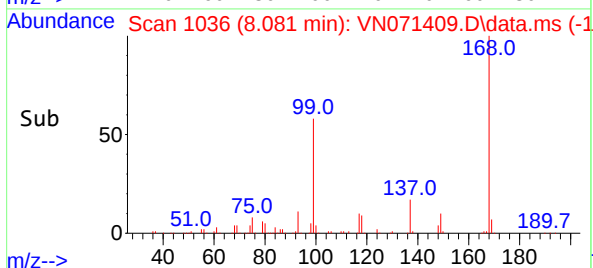
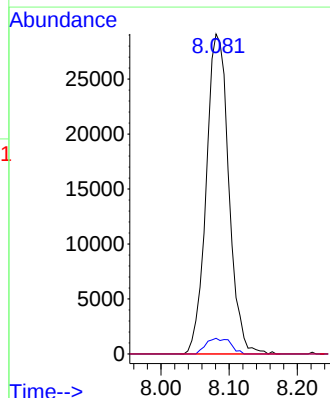
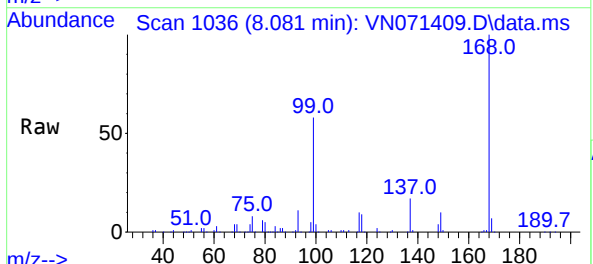
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

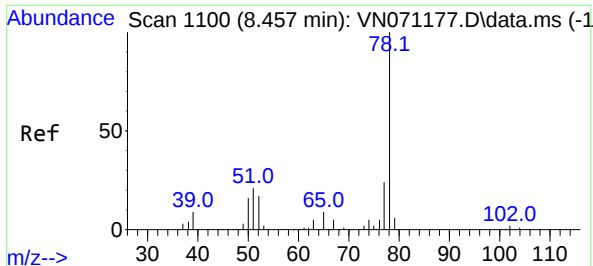
Tgt Ion: 75 Resp: 55469
Ion Ratio Lower Upper
75 100
110 8.7 18.4 55.2#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.778 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.123 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 117 Resp: 66880
Ion Ratio Lower Upper
117 100
119 4.9 76.1 114.1#
121 0.0 24.2 36.2#

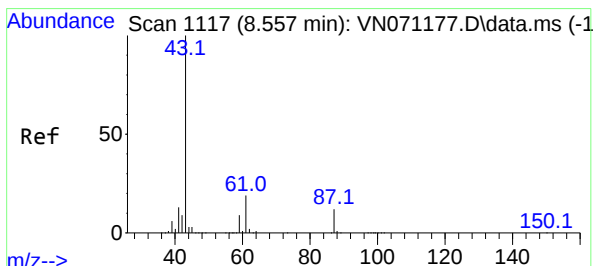
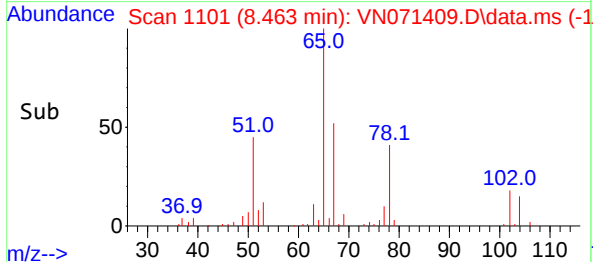
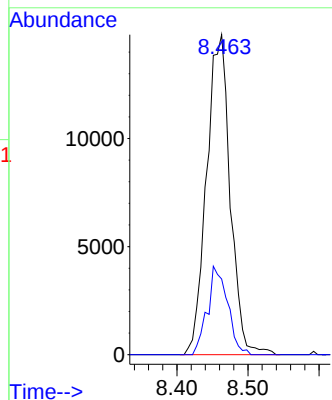
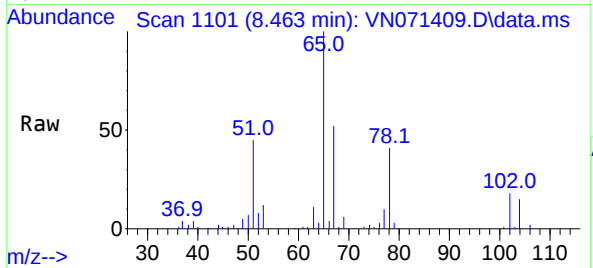




#40
Benzene
Concen: 0.949 ug/l
RT: 8.463 min Scan# 1100
Delta R.T. 0.006 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

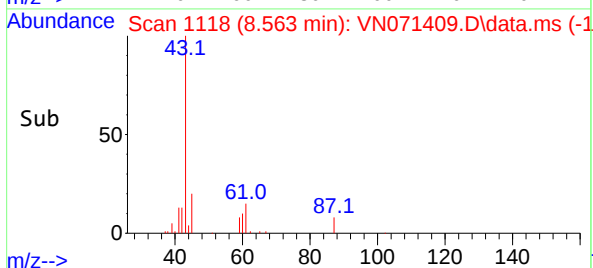
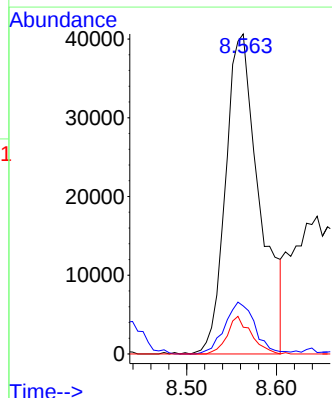
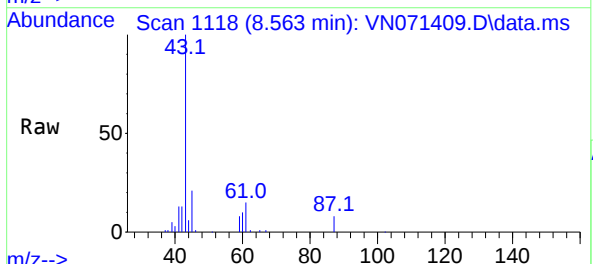
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

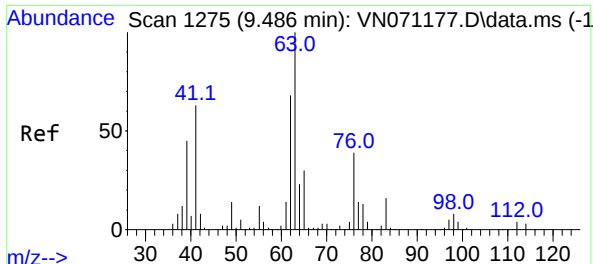
Tgt Ion: 78 Resp: 34230
Ion Ratio Lower Upper
78 100
77 23.6 18.6 27.8



#43
Isopropyl Acetate
Concen: 4.319 ug/l
RT: 8.563 min Scan# 1118
Delta R.T. 0.006 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 43 Resp: 106362
Ion Ratio Lower Upper
43 100
61 14.6 20.4 30.6#
87 8.3 11.2 16.8#





#45

1,2-Dichloropropane

Concen: 0.555 ug/l

RT: 9.622 min Scan# 1

Delta R.T. 0.136 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

Instrument :

MSVOA_N

ClientSampleId :

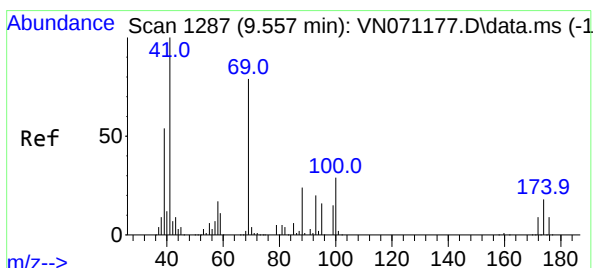
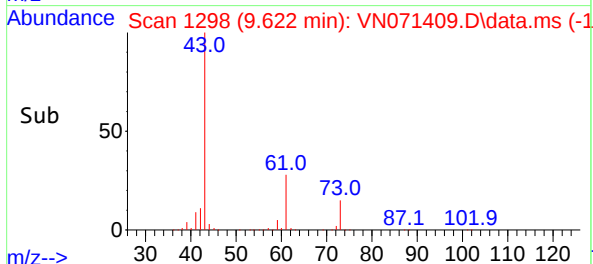
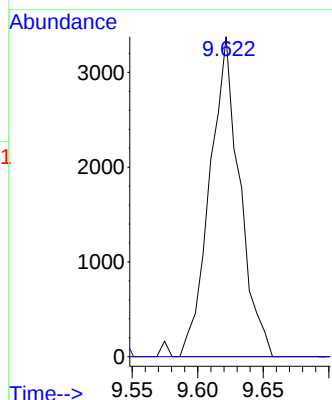
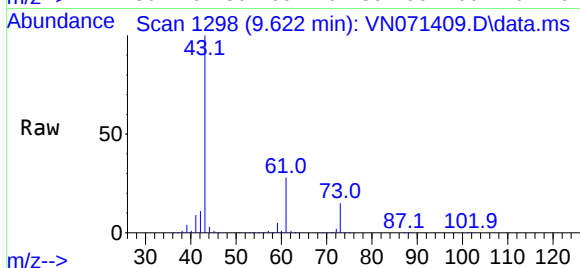
C-17-16-17

Tgt Ion: 63 Resp: 5369

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 2.064 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.018 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

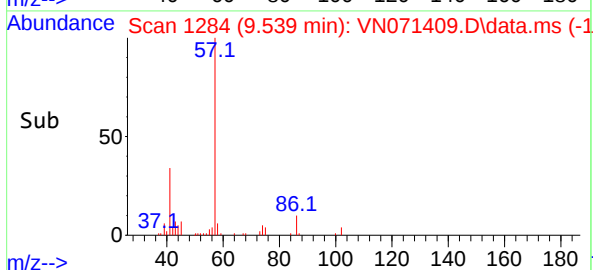
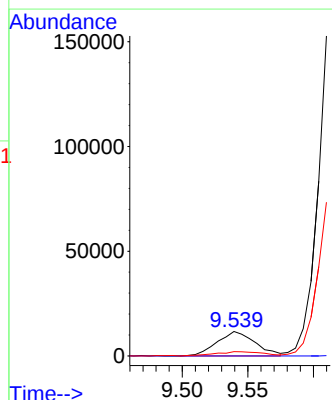
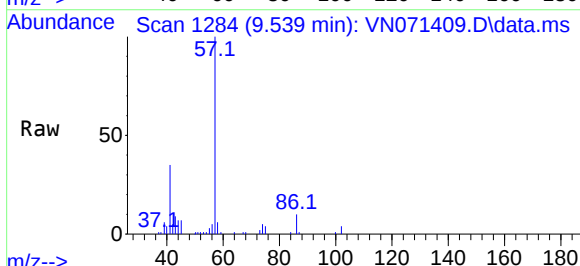
Tgt Ion: 41 Resp: 23557

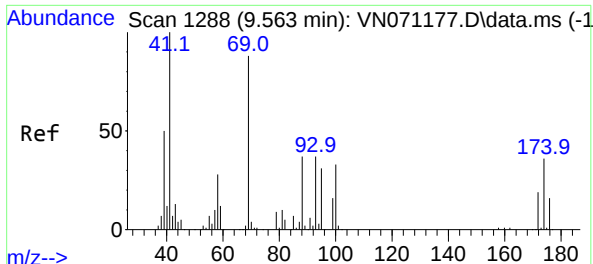
Ion Ratio Lower Upper

41 100

69 0.0 72.4 108.6#

39 0.0 58.4 87.6#

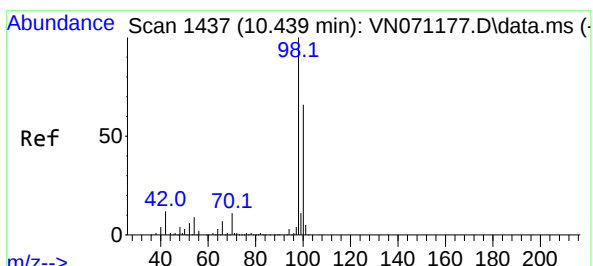
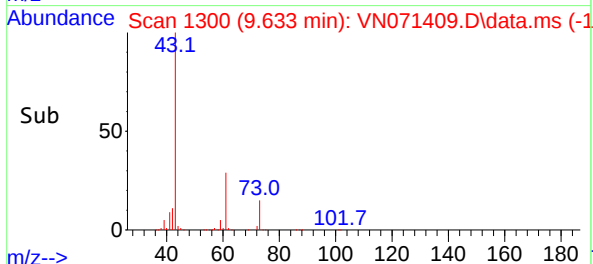
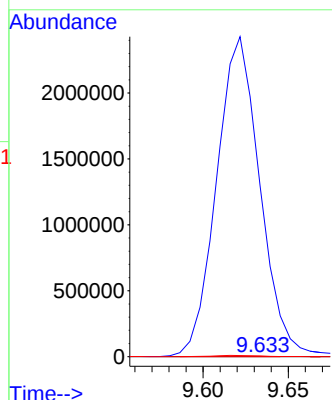
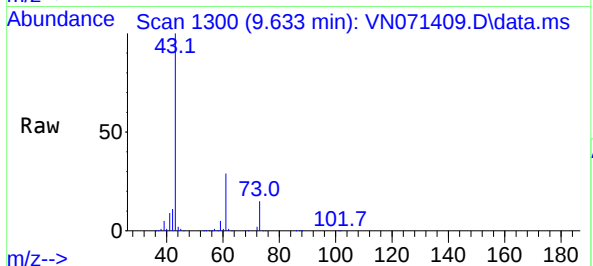




#49
1,4-Dioxane
Concen: 3.004 ug/l
RT: 9.633 min Scan# 11
Delta R.T. 0.070 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

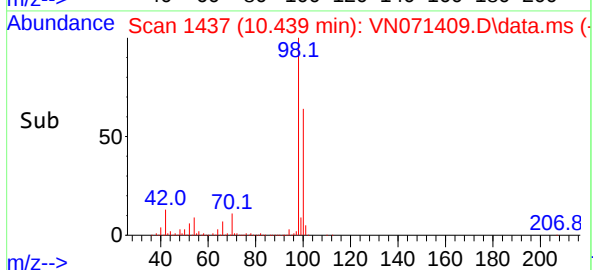
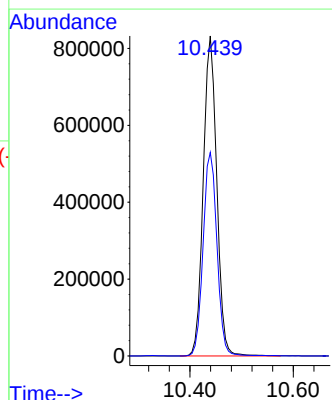
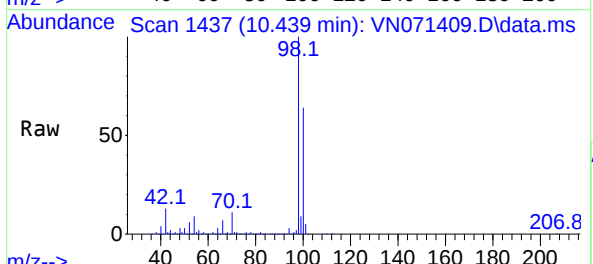
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

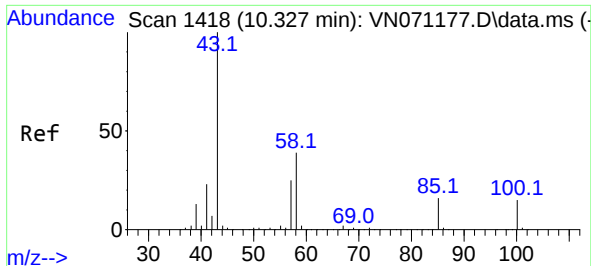
Tgt Ion: 88 Resp: 596
Ion Ratio Lower Upper
88 100
43 729041.3 23.4 35.2#
58 3175.8 50.6 75.8#



#50
Toluene-d8
Concen: 50.144 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 98 Resp: 1507818
Ion Ratio Lower Upper
98 100
100 65.3 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.969 ug/l

RT: 10.328 min Scan# 1418

Delta R.T. 0.001 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

Instrument :

MSVOA_N

ClientSampleId :

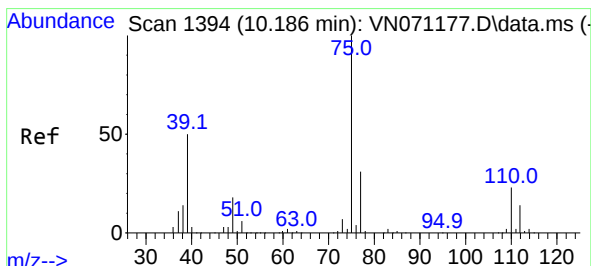
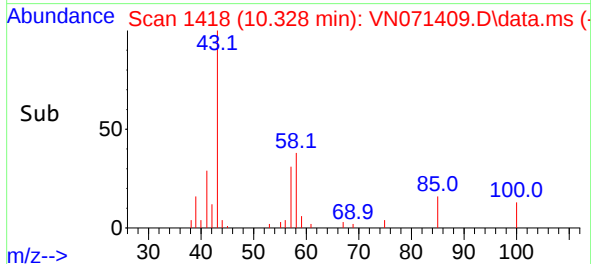
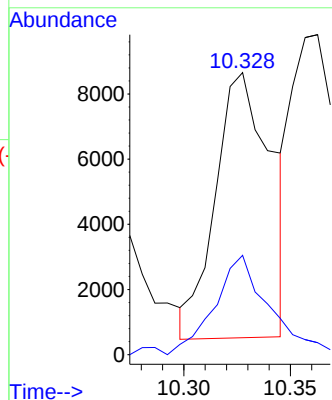
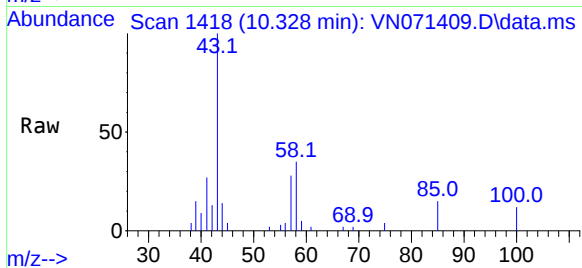
C-17-16-17

Tgt Ion: 43 Resp: 14814

Ion Ratio Lower Upper

43 100

58 36.6 30.4 45.6



#54

cis-1,3-Dichloropropene

Concen: 7.499 ug/l

RT: 10.239 min Scan# 1403

Delta R.T. 0.053 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

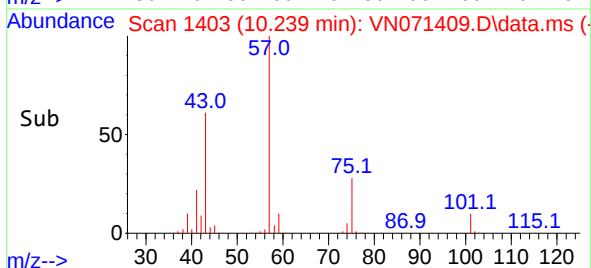
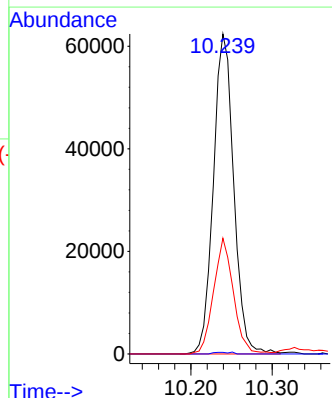
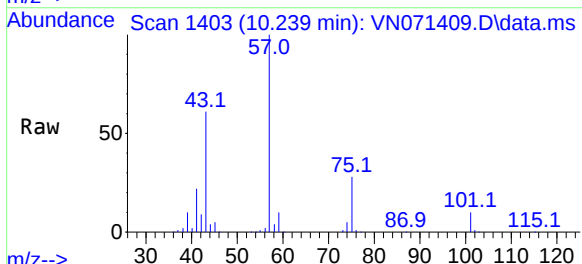
Tgt Ion: 75 Resp: 108731

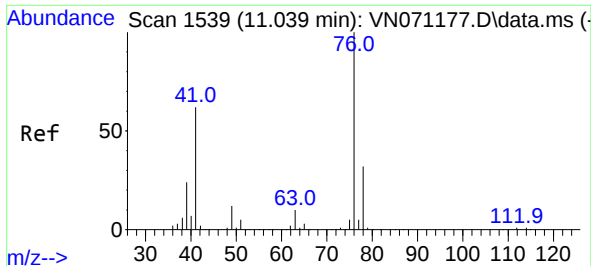
Ion Ratio Lower Upper

75 100

77 0.5 26.4 39.6#

39 36.2 42.5 63.7#





#57

1,3-Dichloropropane

Concen: 4.049 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN071409.D

Acq: 19 Mar 2022 19:44

Instrument :

MSVOA_N

ClientSampleId :

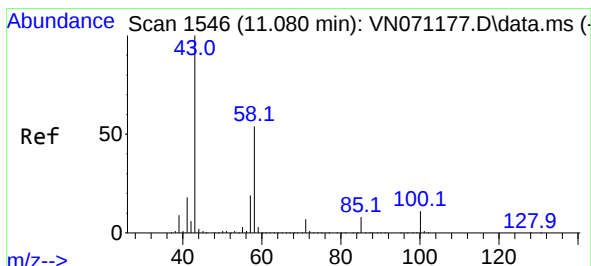
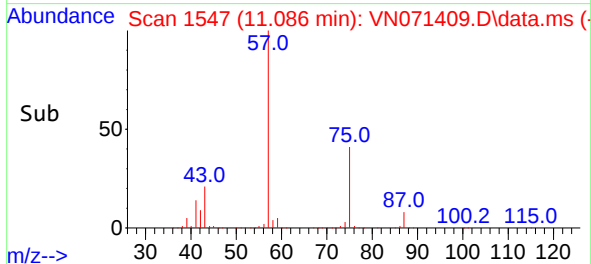
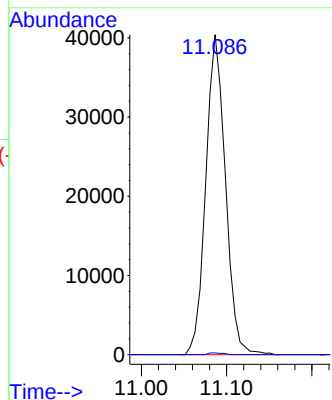
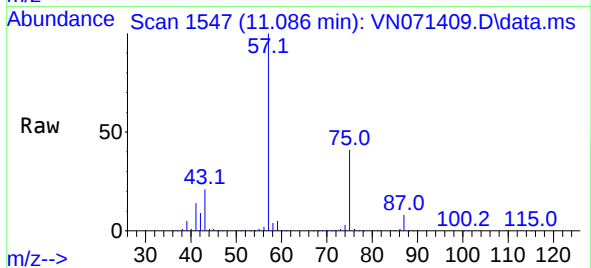
C-17-16-17

Tgt Ion: 76 Resp: 64657

Ion Ratio Lower Upper

76 100

78 0.4 25.7 38.5#



#59

2-Hexanone

Concen: 97.964 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VN071409.D

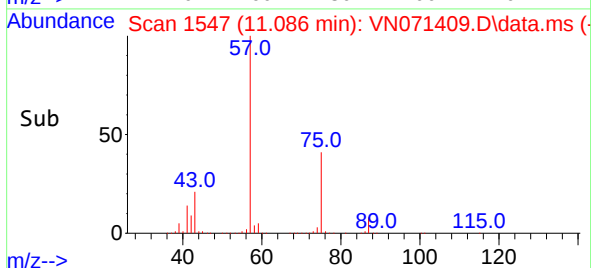
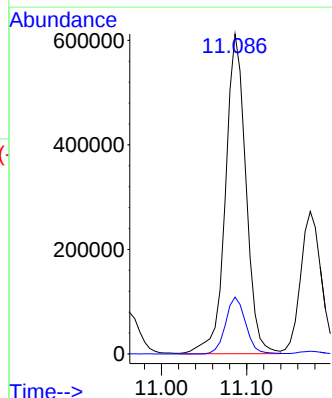
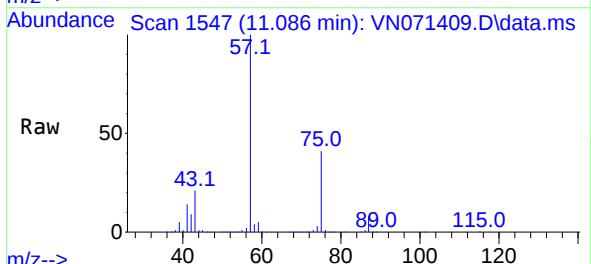
Acq: 19 Mar 2022 19:44

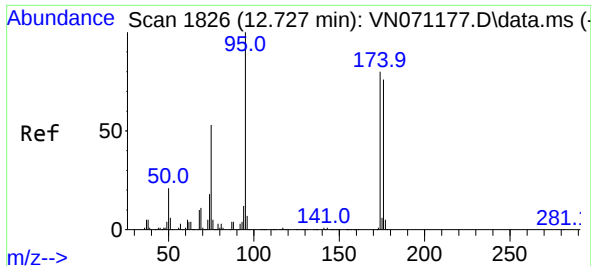
Tgt Ion: 43 Resp: 1021560

Ion Ratio Lower Upper

43 100

58 17.4 26.9 80.7#

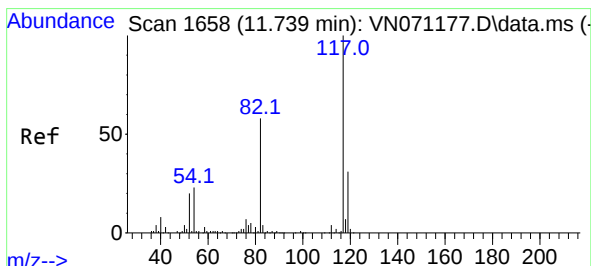
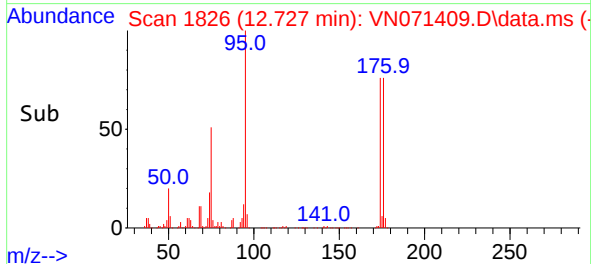
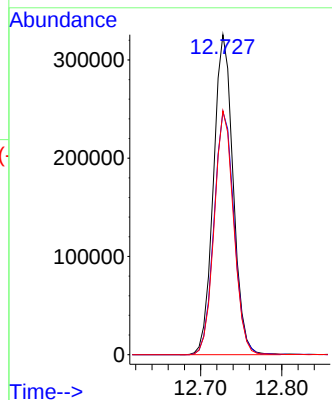
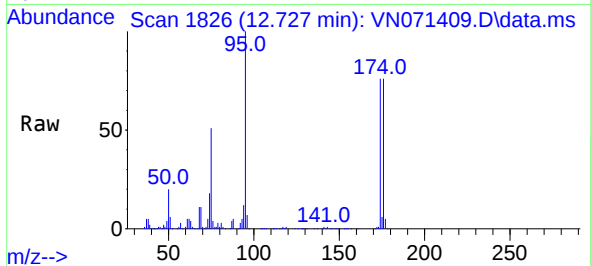




#62
4-Bromofluorobenzene
Concen: 53.827 ug/l
RT: 12.727 min Scan# 1177
Delta R.T. 0.000 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

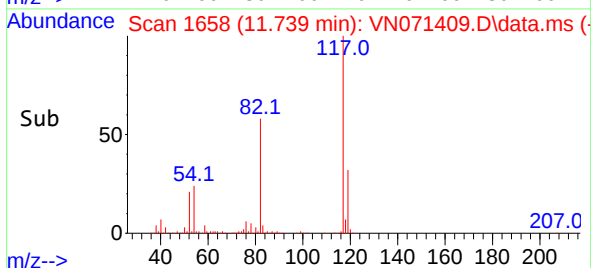
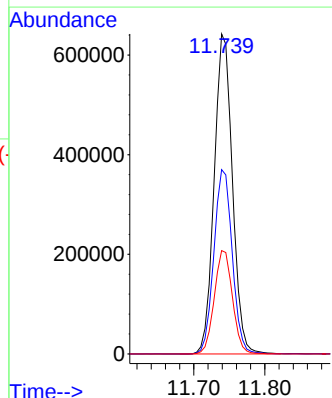
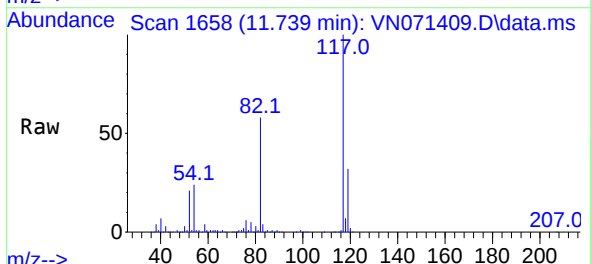
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

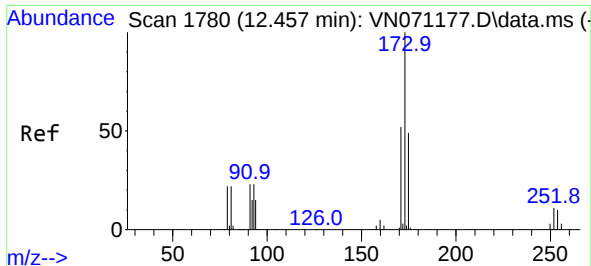
Tgt Ion: 95 Resp: 548078
Ion Ratio Lower Upper
95 100
174 77.6 0.0 187.2
176 75.4 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 117 Resp: 1143137
Ion Ratio Lower Upper
117 100
82 57.6 42.4 63.6
119 32.3 25.4 38.2

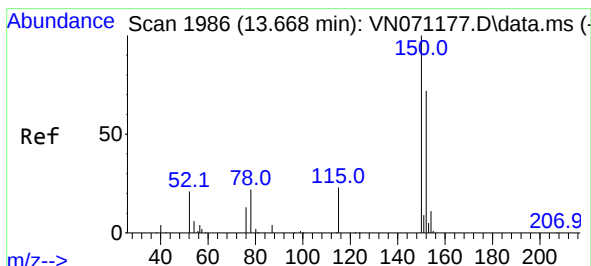
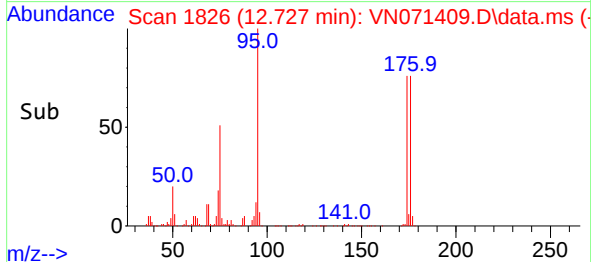
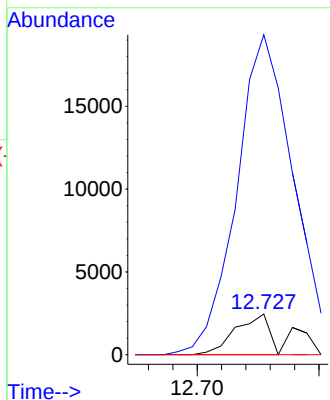
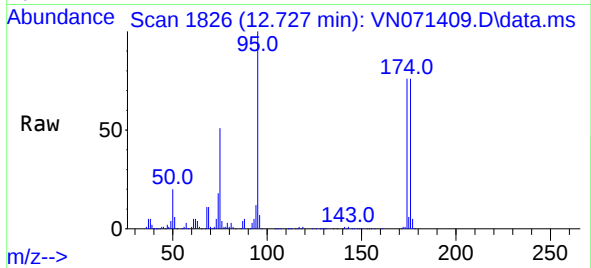




#71
Bromoform
Concen: 0.344 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.270 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

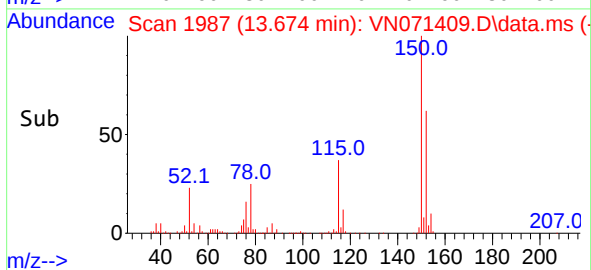
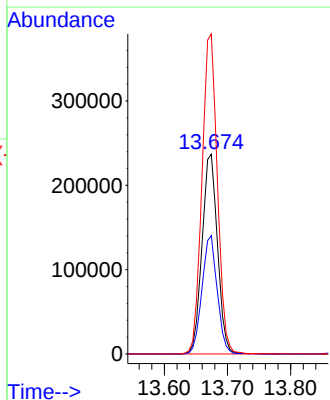
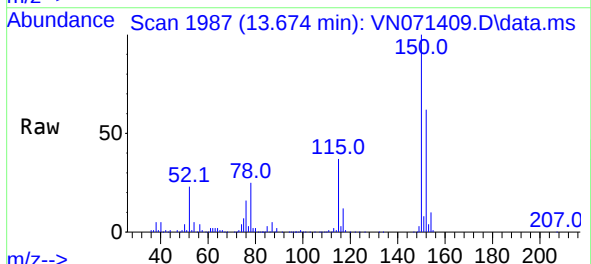
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

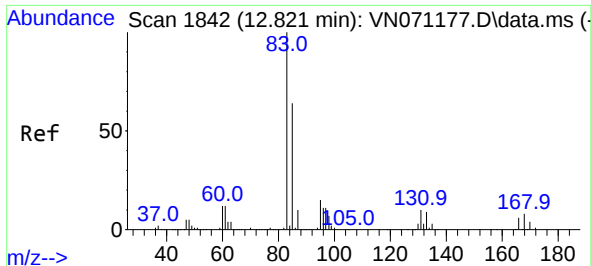
Tgt Ion:173 Resp: 2349
Ion Ratio Lower Upper
173 100
175 1019.8 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1987
Delta R.T. 0.006 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion:152 Resp: 402999
Ion Ratio Lower Upper
152 100
115 58.5 27.5 82.5
150 159.7 0.0 344.4

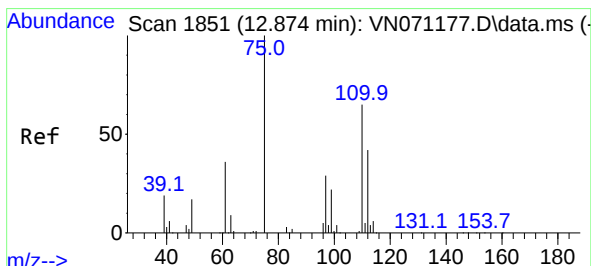
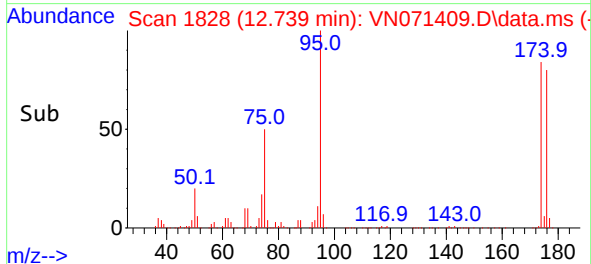
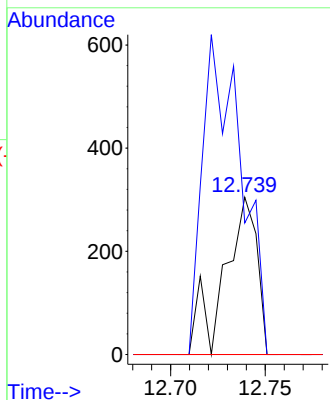
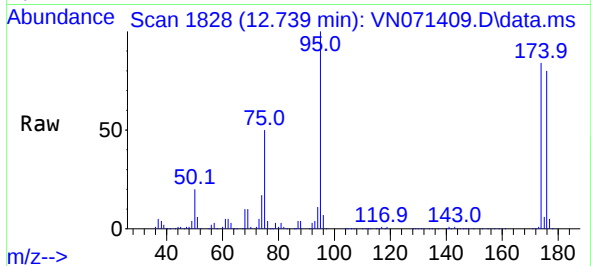




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.739 min Scan# 1828
Delta R.T. -0.082 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

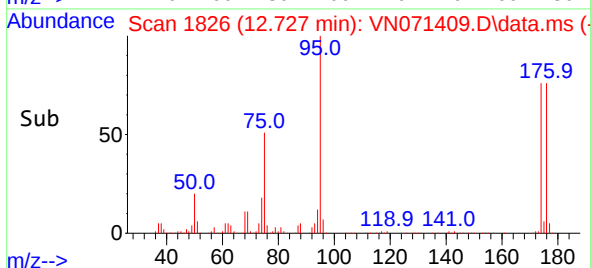
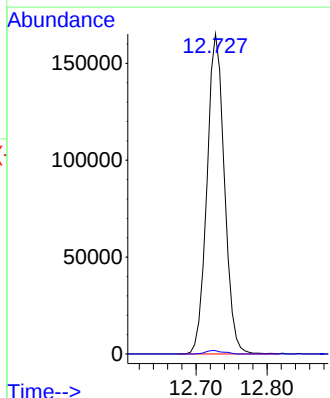
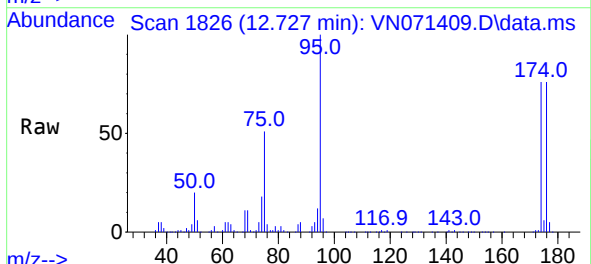
Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

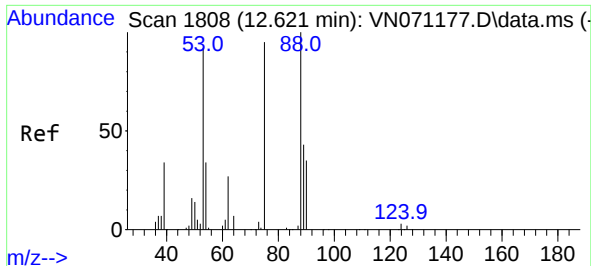
Tgt Ion: 83 Resp: 369
Ion Ratio Lower Upper
83 100
131 237.9 5.5 16.5#
85 0.0 32.4 97.2#



#76
1,2,3-Trichloropropane
Concen: 27.577 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 75 Resp: 281712
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#

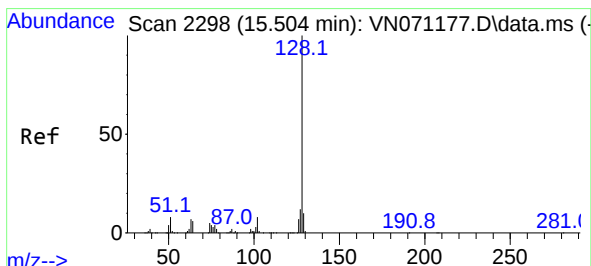
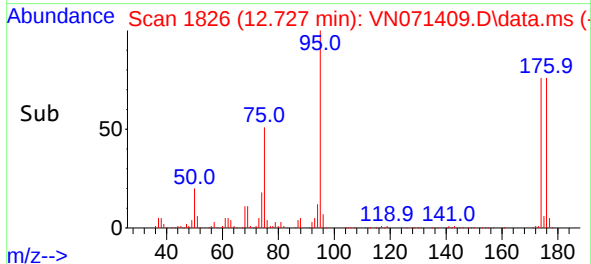
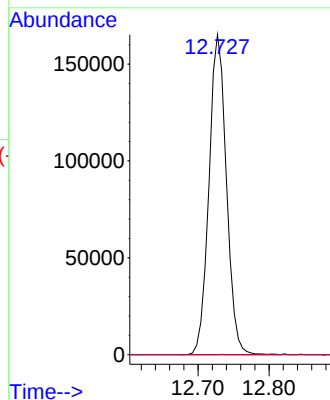
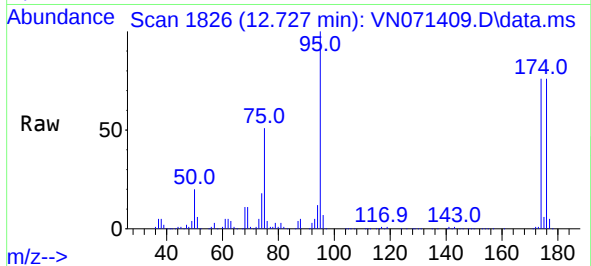




#81
trans-1,4-Dichloro-2-butene
Concen: 75.566 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Instrument :
MSVOA_N
ClientSampleId :
C-17-16-17

Tgt Ion: 75 Resp: 281712
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#95
Naphthalene
Concen: 8.705 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. -0.000 min
Lab File: VN071409.D
Acq: 19 Mar 2022 19:44

Tgt Ion: 128 Resp: 74769
Ion Ratio Lower Upper
128 100
127 13.4 10.5 15.7
129 9.5 8.7 13.1

