

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112222\
 Data File : VN075382.D
 Acq On : 22 Nov 2022 20:54
 Operator : JC\MD
 Sample : N5749-23
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-84

Quant Time: Nov 23 07:16:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112122W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 23 00:18:03 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	145960	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	260240	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	229816	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	97600	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	43437	55.440	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 110.880%	
35) Dibromofluoromethane	8.171	113	53720	52.548	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.100%	
50) Toluene-d8	10.570	98	116562	50.624	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.240%	
62) 4-Bromofluorobenzene	12.847	95	83556	49.165	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.320%	

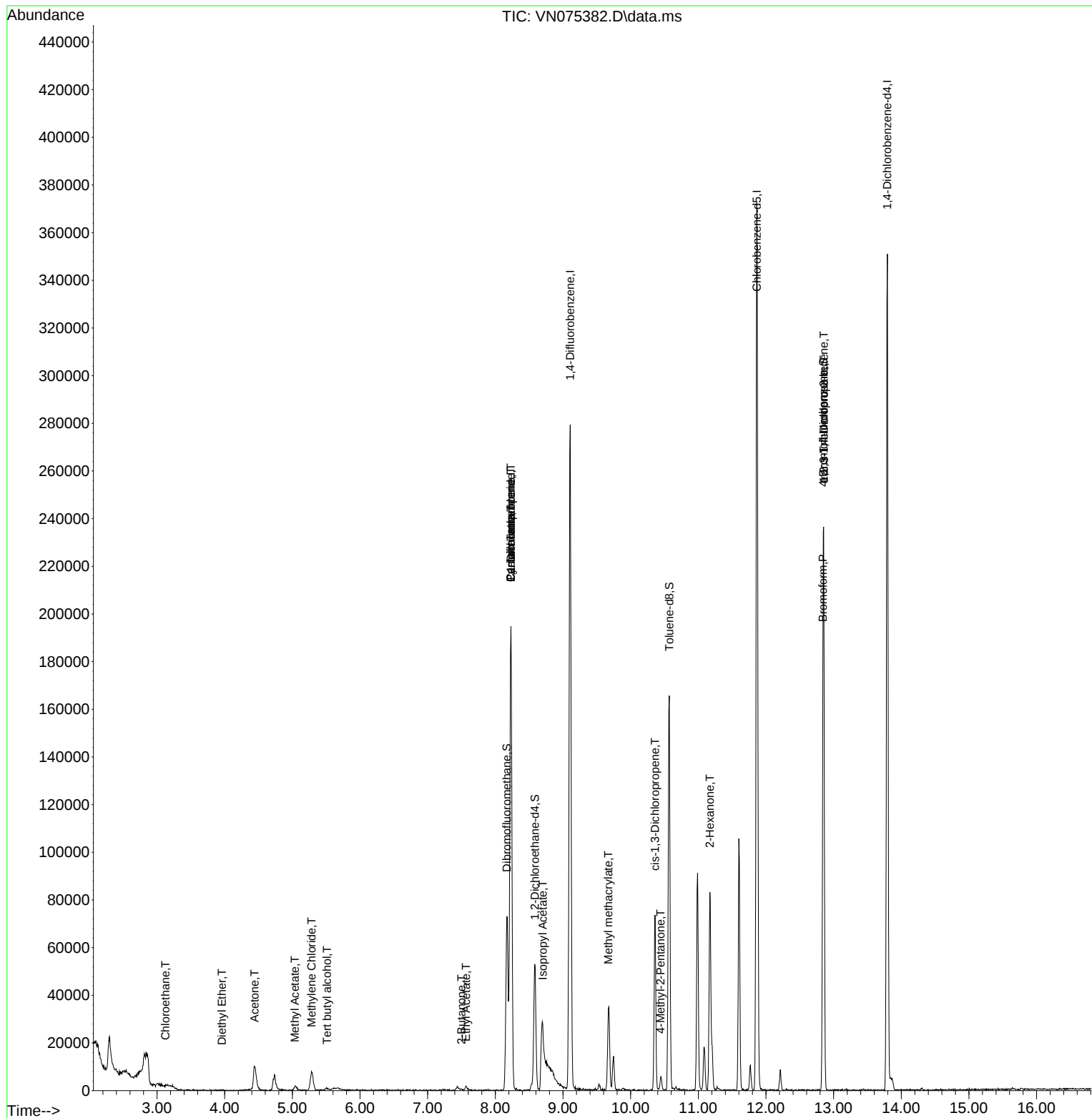
Target Compounds					Qvalue	
6) Chloroethane	3.124	64	297	0.224	ug/l #	45
8) Diethyl Ether	3.959	74	185	0.211	ug/l #	10
11) Tert butyl alcohol	5.512	59	444	1.350	ug/l #	72
16) Acetone	4.441	43	19903	27.234	ug/l	93
18) Methyl Acetate	5.035	43	3691	0.727	ug/l	98
20) Methylene Chloride	5.283	84	6668	3.305	ug/l #	76
25) 2-Butanone	7.500	43	1173	1.150	ug/l	98
31) Cyclohexane	8.229	56	2730	1.097	ug/l #	7
36) 1,1-Dichloropropene	8.229	75	11068	4.965	ug/l #	50
37) Ethyl Acetate	7.565	43	2946	1.468	ug/l #	78
38) Carbon Tetrachloride	8.229	117	15044	6.143	ug/l #	15
43) Isopropyl Acetate	8.700	43	34931	10.841	ug/l #	73
48) Methyl methacrylate	9.670	41	1248	0.838	ug/l #	32
51) 4-Methyl-2-Pentanone	10.441	43	4470	2.178	ug/l	91
54) cis-1,3-Dichloropropene	10.359	75	15129	5.824	ug/l #	62
59) 2-Hexanone	11.170	43	65331	42.394	ug/l #	21
71) Bromoform	12.841	173	401	0.297	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	41573	22.528	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	41573	66.656	ug/l #	10

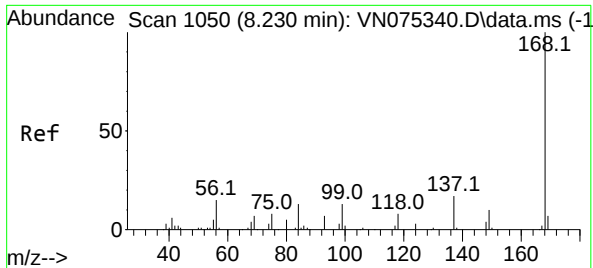
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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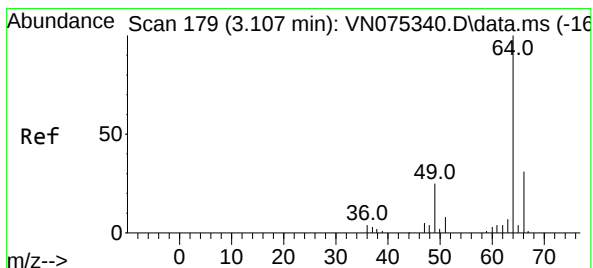
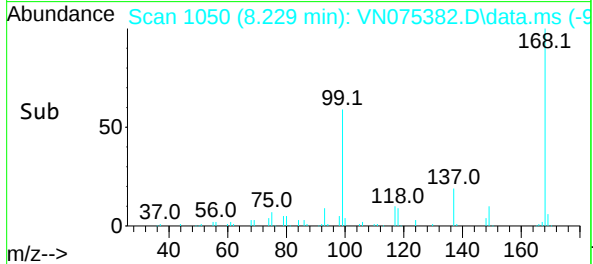
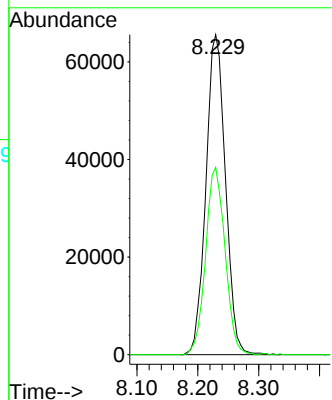
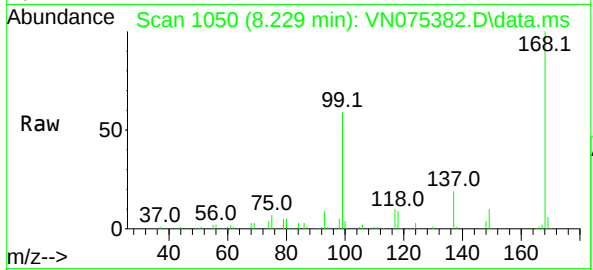




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.001 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

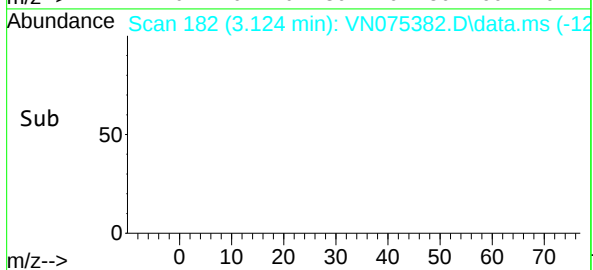
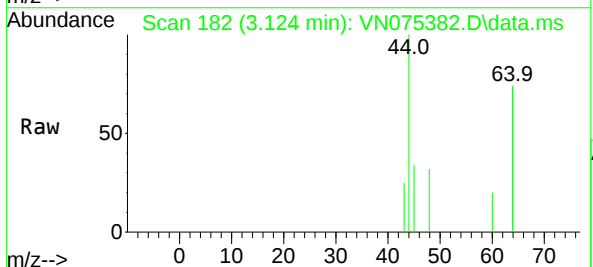
Instrument :
MSVOA_N
ClientSampleId :
MH-84

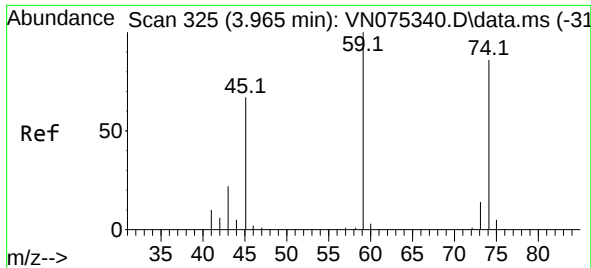
Tgt Ion:168 Resp: 145960
Ion Ratio Lower Upper
168 100
99 58.5 51.6 77.4



#6
Chloroethane
Concen: 0.224 ug/l
RT: 3.124 min Scan# 182
Delta R.T. 0.017 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

Tgt Ion: 64 Resp: 297
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#





#8
Diethyl Ether

Concen: 0.211 ug/l

RT: 3.959 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN075382.D

Acq: 22 Nov 2022 20:54

Instrument :

MSVOA_N

ClientSampleId :

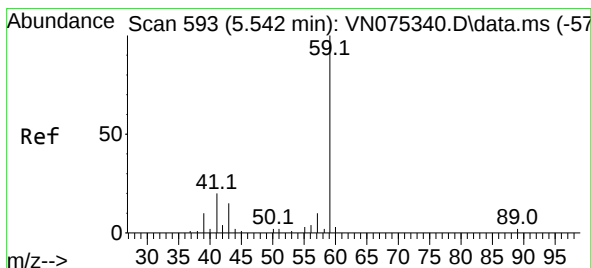
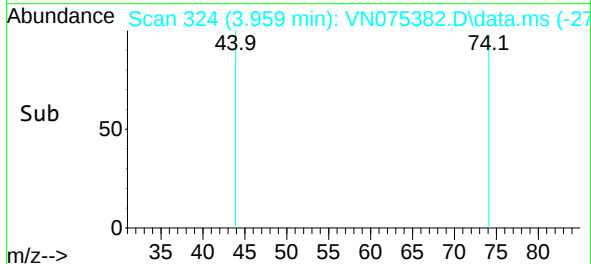
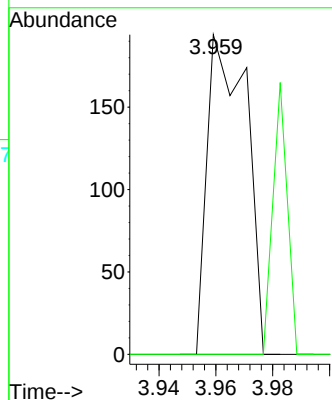
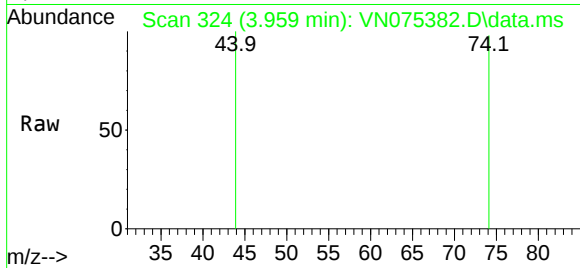
MH-84

Tgt Ion: 74 Resp: 185

Ion Ratio Lower Upper

74 100

45 0.0 39.3 117.9#



#11

Tert butyl alcohol

Concen: 1.350 ug/l

RT: 5.512 min Scan# 588

Delta R.T. -0.030 min

Lab File: VN075382.D

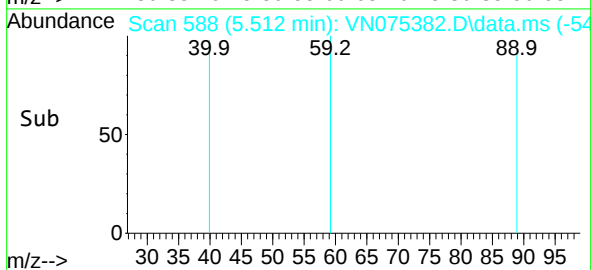
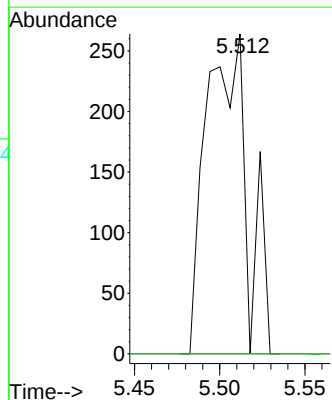
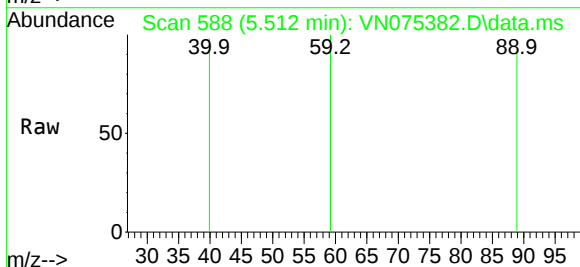
Acq: 22 Nov 2022 20:54

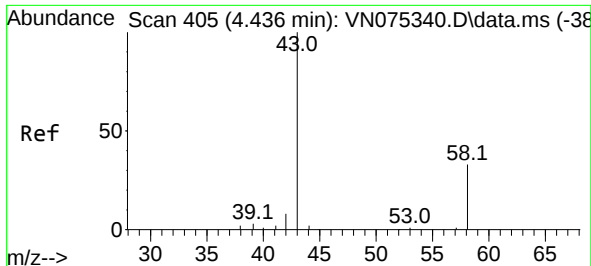
Tgt Ion: 59 Resp: 444

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#16

Acetone

Concen: 27.234 ug/l

RT: 4.441 min Scan# 405

Delta R.T. 0.005 min

Lab File: VN075382.D

Acq: 22 Nov 2022 20:54

Instrument :

MSVOA_N

ClientSampleId :

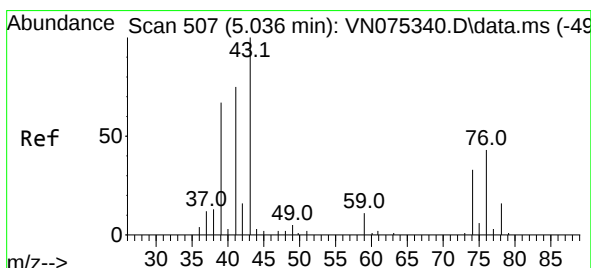
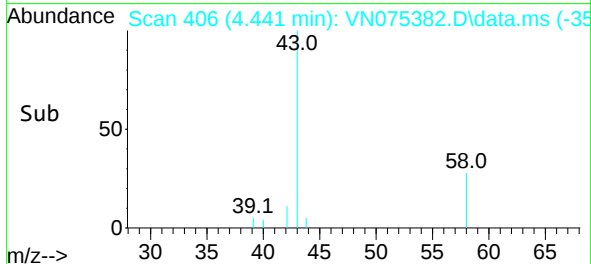
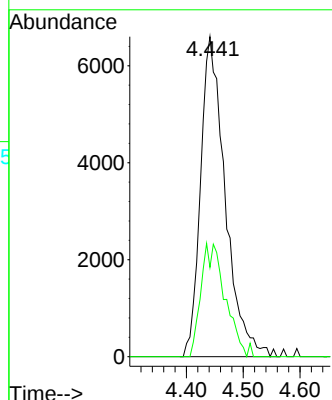
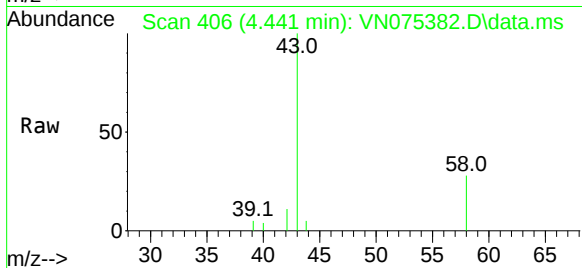
MH-84

Tgt Ion: 43 Resp: 19903

Ion Ratio Lower Upper

43 100

58 27.9 25.5 38.3



#18

Methyl Acetate

Concen: 0.727 ug/l

RT: 5.035 min Scan# 507

Delta R.T. -0.001 min

Lab File: VN075382.D

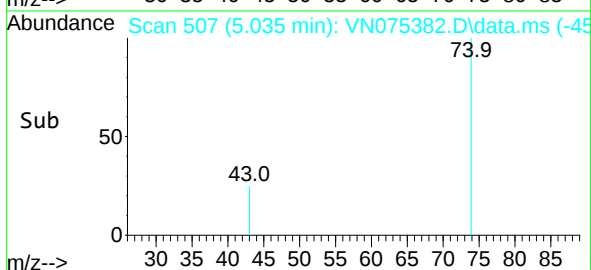
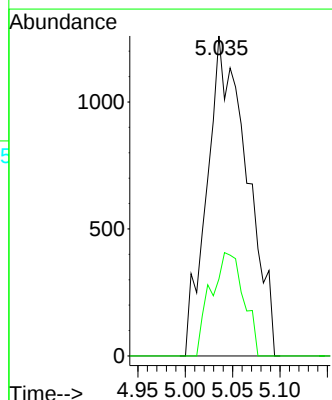
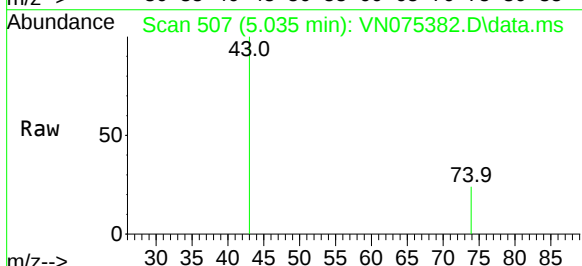
Acq: 22 Nov 2022 20:54

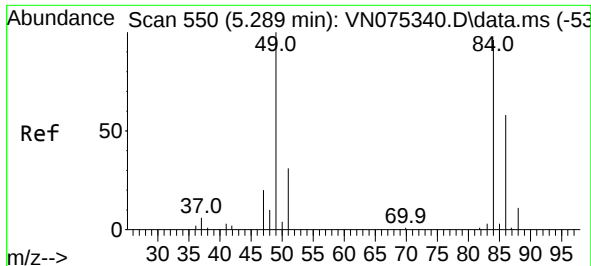
Tgt Ion: 43 Resp: 3691

Ion Ratio Lower Upper

43 100

74 26.5 22.0 33.0





#20

Methylene Chloride

Concen: 3.305 ug/l

RT: 5.283 min Scan# 54

Delta R.T. -0.006 min

Lab File: VN075382.D

Acq: 22 Nov 2022 20:54

Instrument :

MSVOA_N

ClientSampleId :

MH-84

Tgt Ion: 84 Resp: 6668

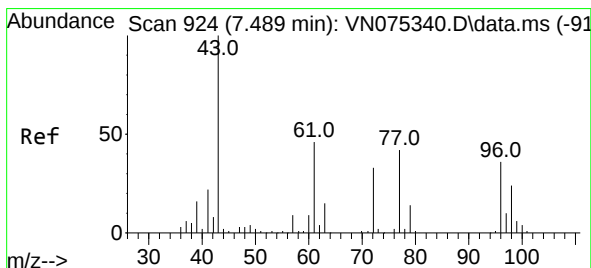
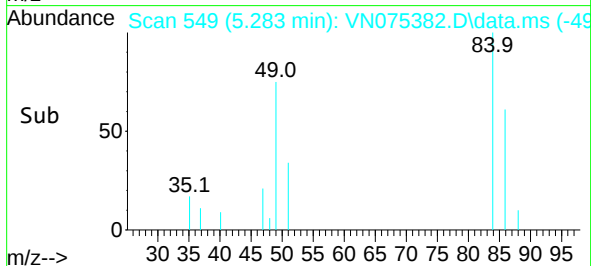
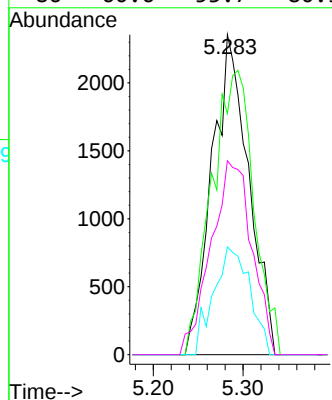
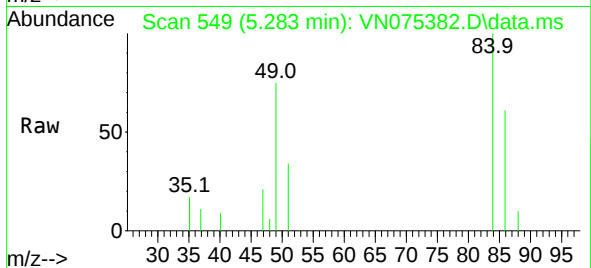
Ion Ratio Lower Upper

84 100

49 75.3 94.9 142.3#

51 33.7 26.8 40.2

86 60.6 53.7 80.5



#25

2-Butanone

Concen: 1.150 ug/l

RT: 7.500 min Scan# 926

Delta R.T. 0.011 min

Lab File: VN075382.D

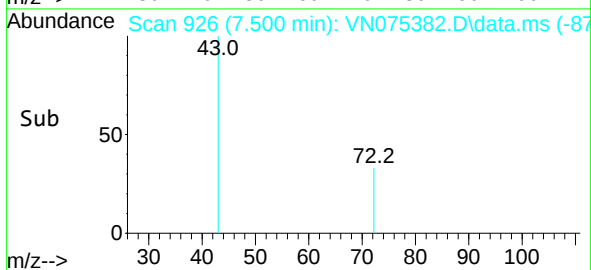
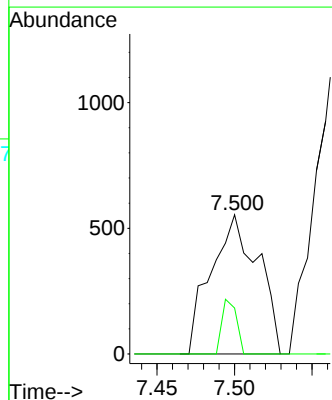
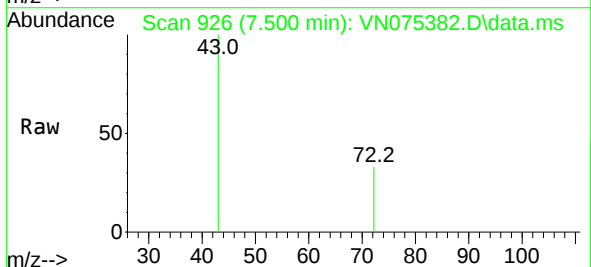
Acq: 22 Nov 2022 20:54

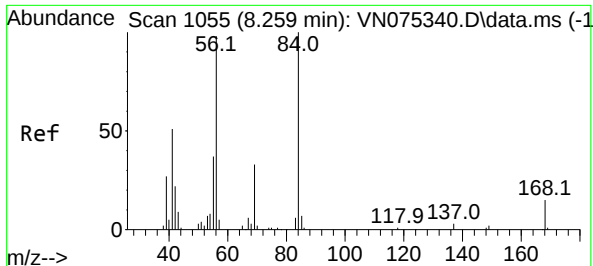
Tgt Ion: 43 Resp: 1173

Ion Ratio Lower Upper

43 100

72 33.0 25.5 38.3





#31

Cyclohexane

Concen: 1.097 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.030 min

Lab File: VN075382.D

Acq: 22 Nov 2022 20:54

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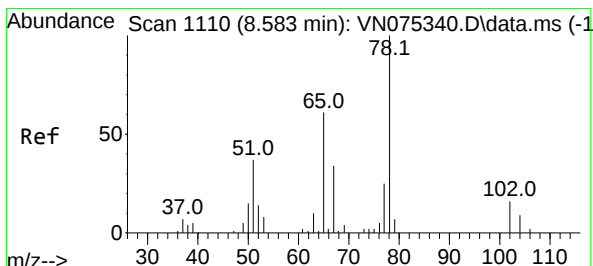
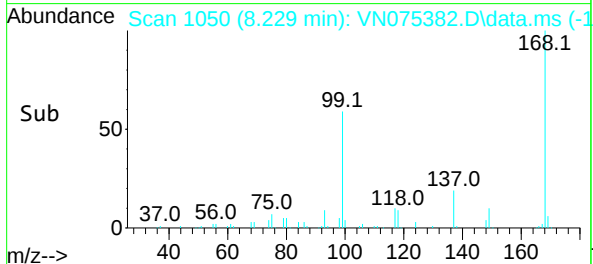
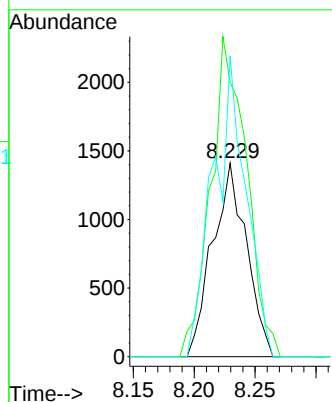
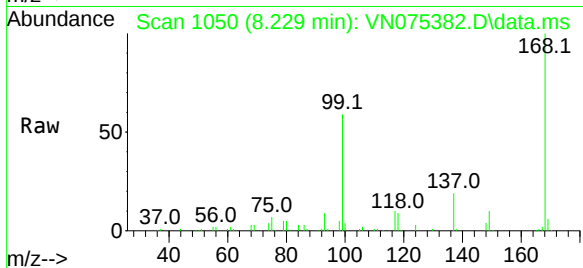
Tgt Ion: 56 Resp: 2730

Ion Ratio Lower Upper

56 100

69 141.9 25.2 37.8#

84 155.5 77.8 116.8#



#33

1,2-Dichloroethane-d4

Concen: 55.440 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.001 min

Lab File: VN075382.D

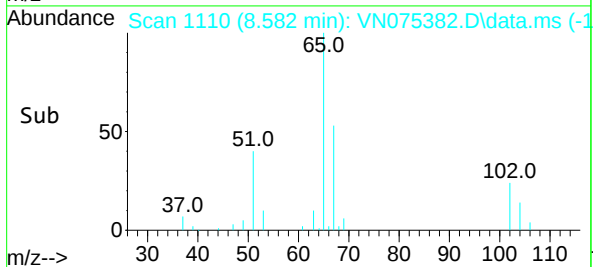
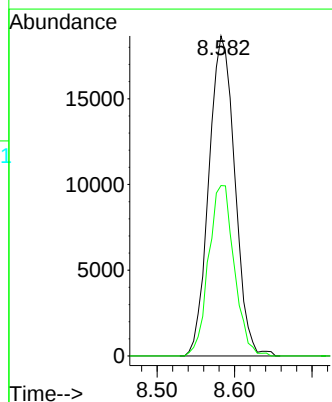
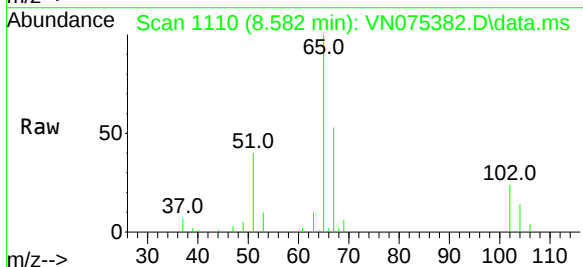
Acq: 22 Nov 2022 20:54

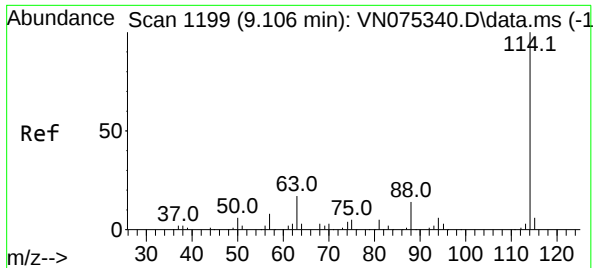
Tgt Ion: 65 Resp: 43437

Ion Ratio Lower Upper

65 100

67 52.6 0.0 102.0

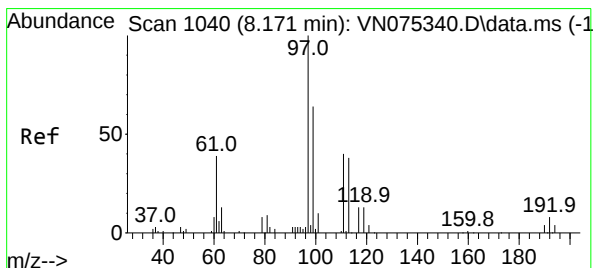
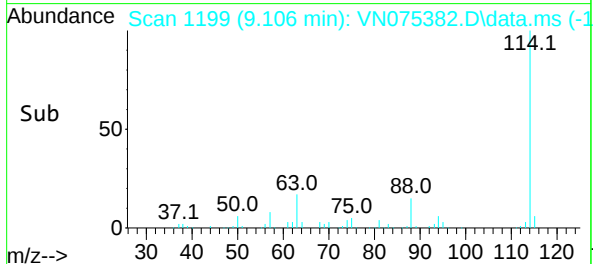
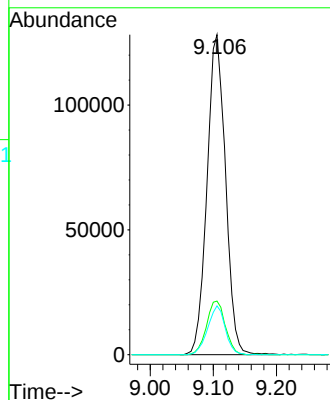
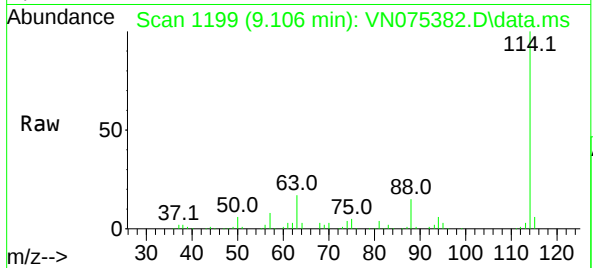




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. -0.000 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

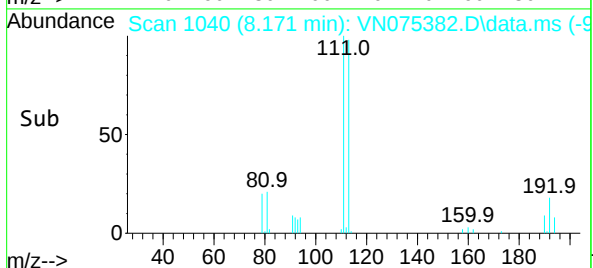
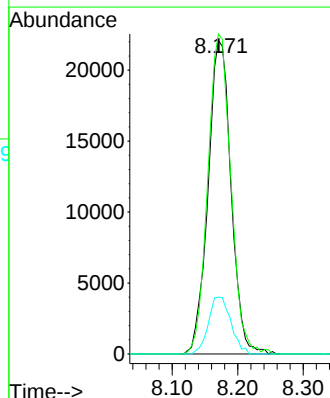
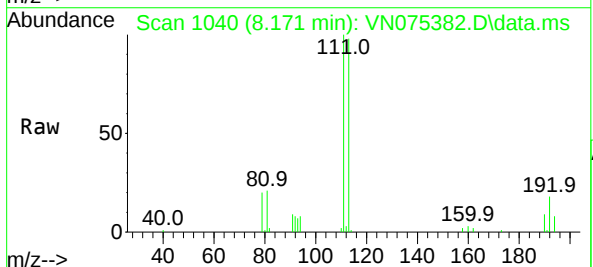
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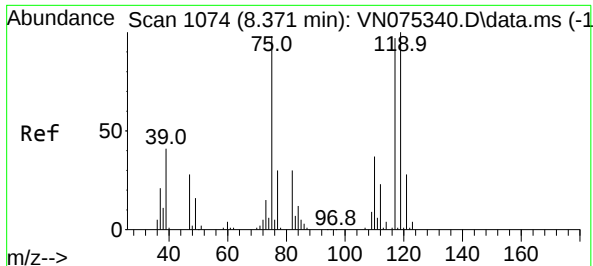
Tgt Ion:114 Resp: 260240
Ion Ratio Lower Upper
114 100
63 16.7 0.0 39.6
88 15.3 0.0 29.0



#35
Dibromofluoromethane
Concen: 52.548 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

Tgt Ion:113 Resp: 53720
Ion Ratio Lower Upper
113 100
111 102.5 80.5 120.7
192 17.7 13.2 19.8

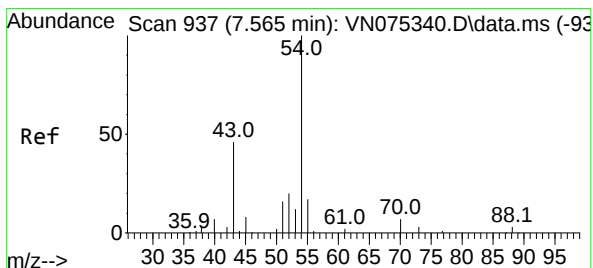
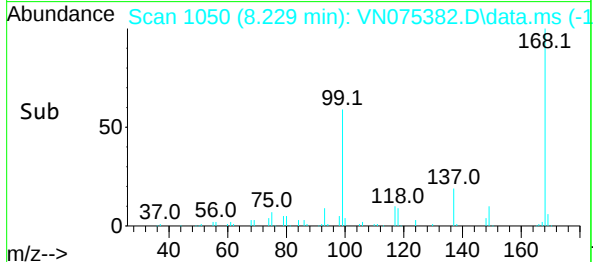
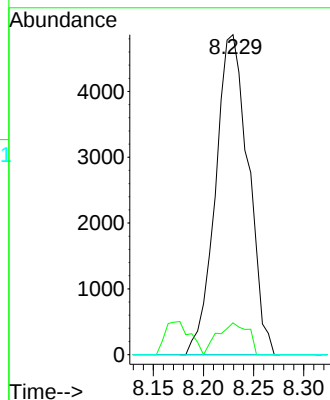
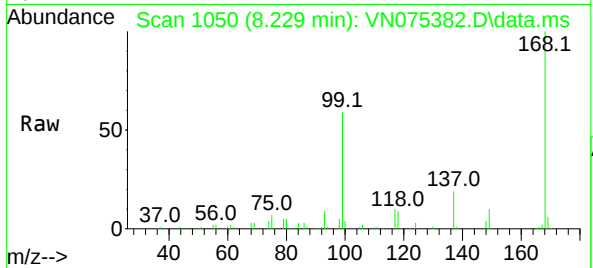




#36
1,1-Dichloropropene
Concen: 4.965 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.142 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

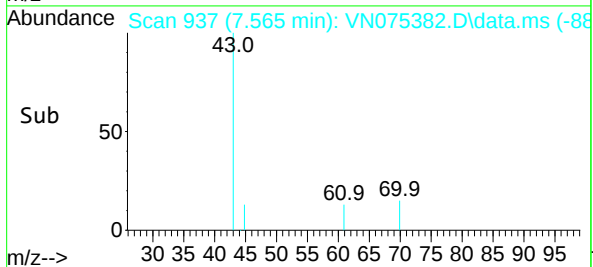
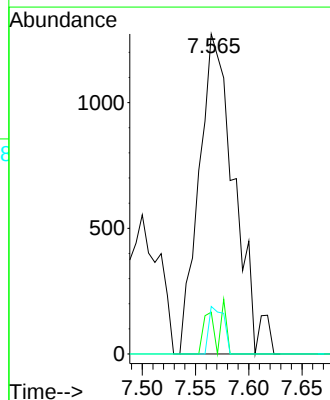
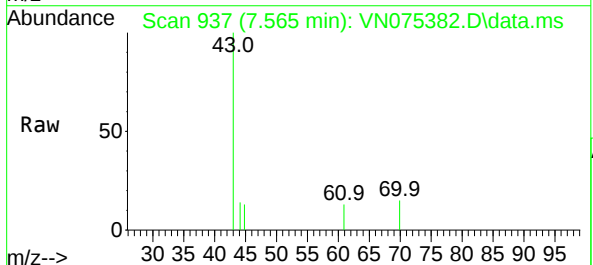
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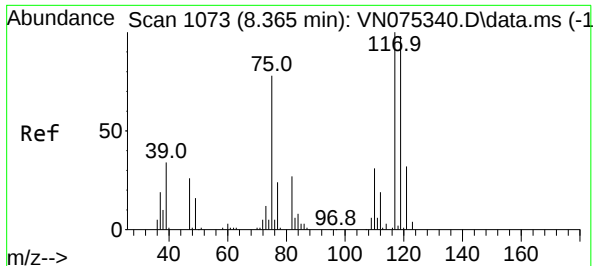
Tgt Ion: 75 Resp: 11068
Ion Ratio Lower Upper
75 100
110 9.2 17.8 53.3#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 1.468 ug/l
RT: 7.565 min Scan# 937
Delta R.T. -0.000 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

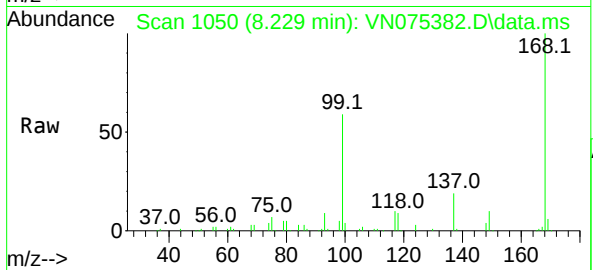
Tgt Ion: 43 Resp: 2946
Ion Ratio Lower Upper
43 100
61 3.8 12.2 18.4#
70 6.2 9.4 14.2#



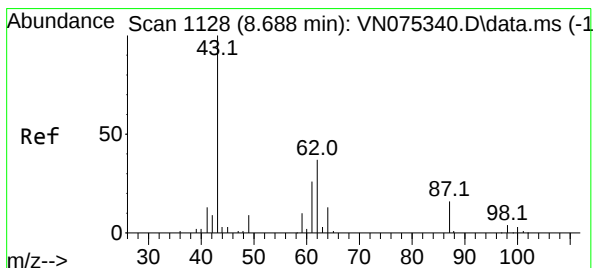
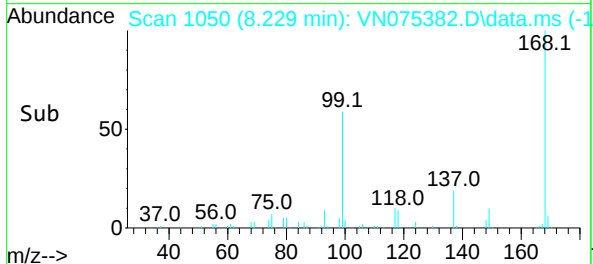
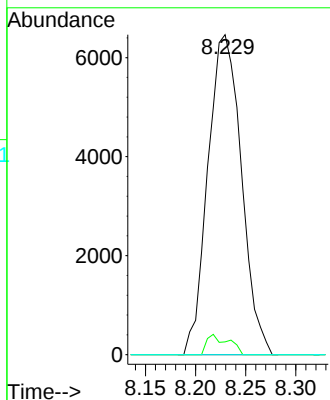


#38
Carbon Tetrachloride
Concen: 6.143 ug/l
RT: 8.229 min Scan# 110
Delta R.T. -0.136 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

Instrument :
MSVOA_N
ClientSampleId :
MH-84

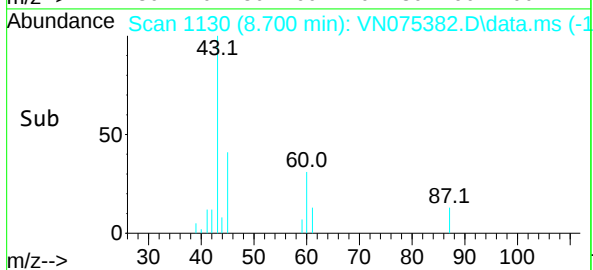
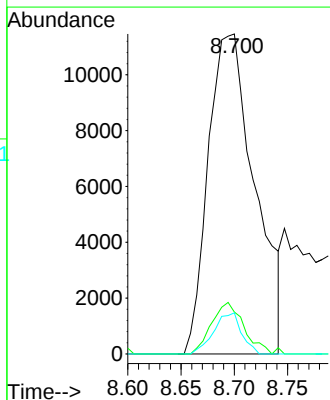
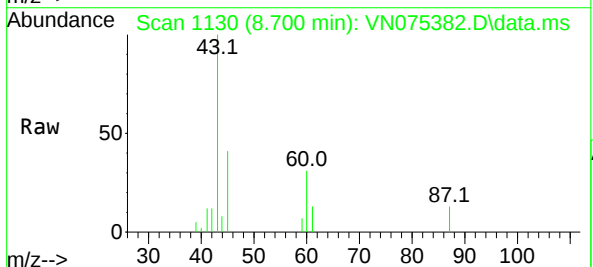


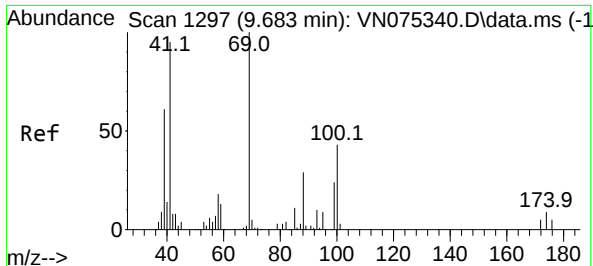
Tgt Ion:117 Resp: 15044
Ion Ratio Lower Upper
117 100
119 4.0 76.7 115.1#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 10.841 ug/l
RT: 8.700 min Scan# 1130
Delta R.T. 0.012 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

Tgt Ion: 43 Resp: 34931
Ion Ratio Lower Upper
43 100
61 11.4 22.4 33.6#
87 7.7 12.5 18.7#





#48

Methyl methacrylate

Concen: 0.838 ug/l

RT: 9.670 min Scan# 1297

Delta R.T. -0.013 min

Lab File: VN075382.D

Acq: 22 Nov 2022 20:54

Instrument :

MSVOA_N

ClientSampleId :

MH-84

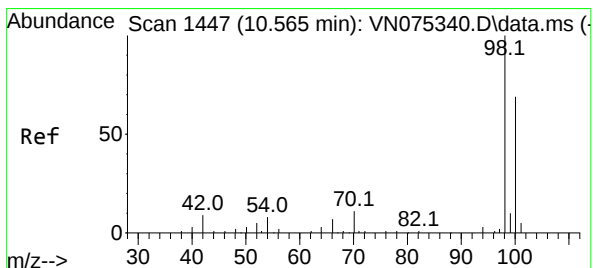
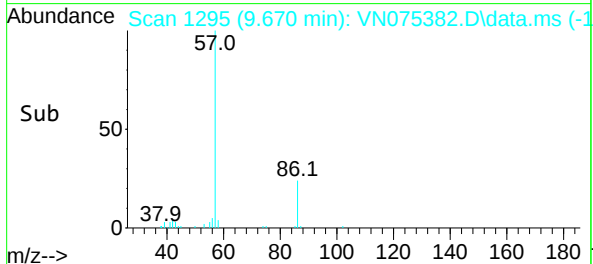
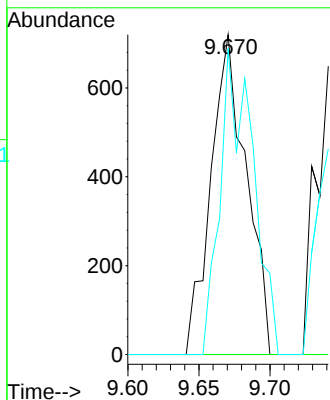
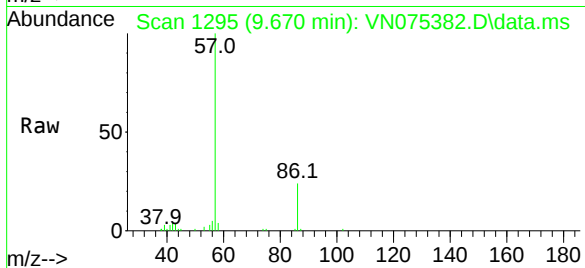
Tgt Ion: 41 Resp: 1248

Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 88.6 56.2 84.2#



#50

Toluene-d8

Concen: 50.624 ug/l

RT: 10.570 min Scan# 1448

Delta R.T. 0.005 min

Lab File: VN075382.D

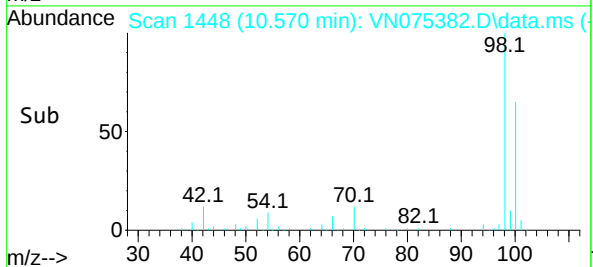
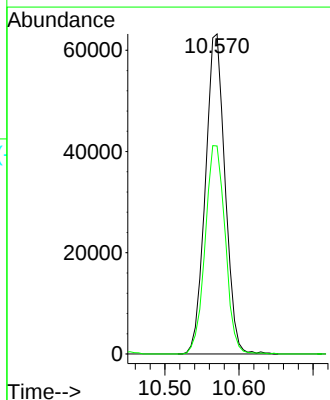
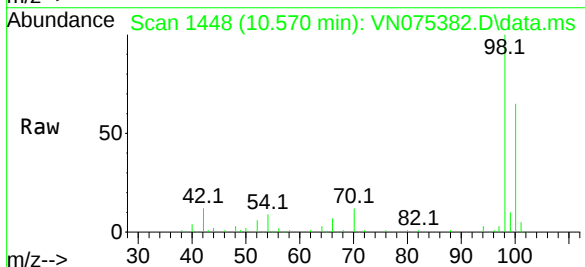
Acq: 22 Nov 2022 20:54

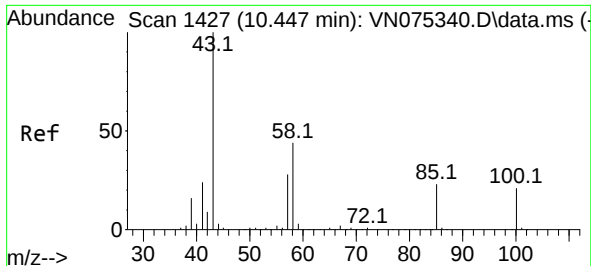
Tgt Ion: 98 Resp: 116562

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 2.178 ug/l

RT: 10.441 min Scan# 1426

Delta R.T. -0.006 min

Lab File: VN075382.D

Acq: 22 Nov 2022 20:54

Instrument :

MSVOA_N

ClientSampleId :

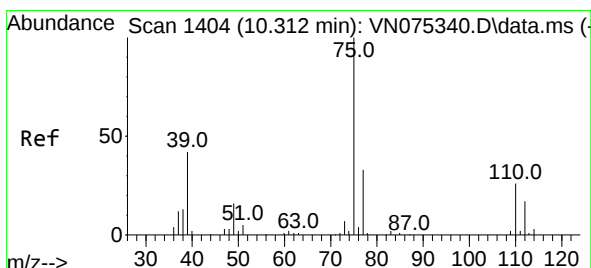
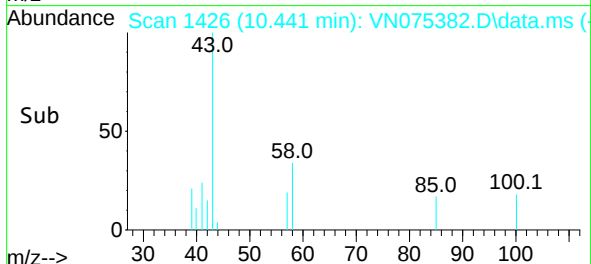
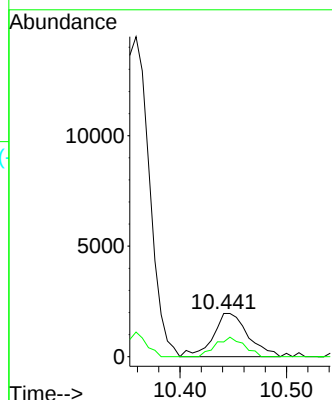
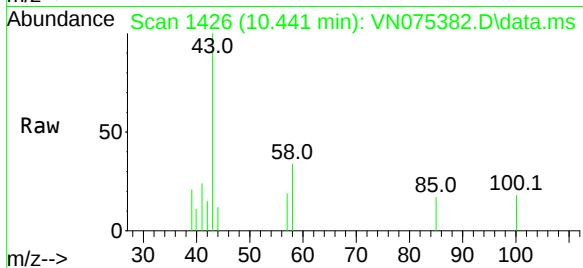
MH-84

Tgt Ion: 43 Resp: 4470

Ion Ratio Lower Upper

43 100

58 36.4 33.6 50.4



#54

cis-1,3-Dichloropropene

Concen: 5.824 ug/l

RT: 10.359 min Scan# 1412

Delta R.T. 0.047 min

Lab File: VN075382.D

Acq: 22 Nov 2022 20:54

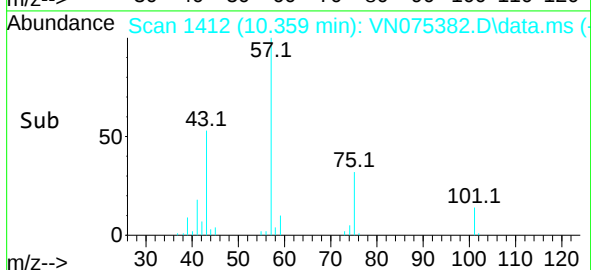
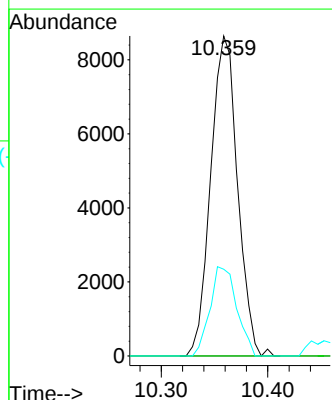
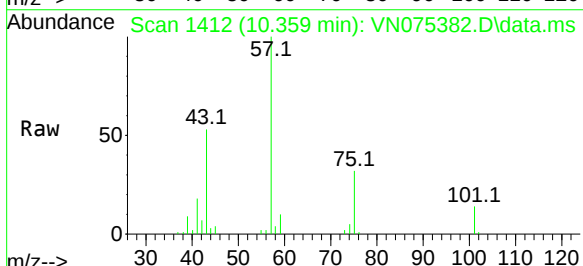
Tgt Ion: 75 Resp: 15129

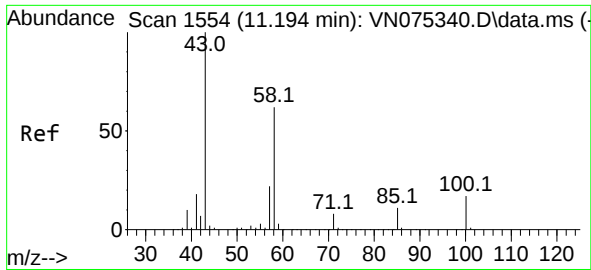
Ion Ratio Lower Upper

75 100

77 0.0 23.7 35.5#

39 27.1 35.8 53.6#

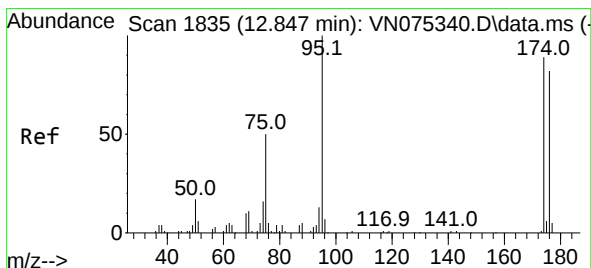
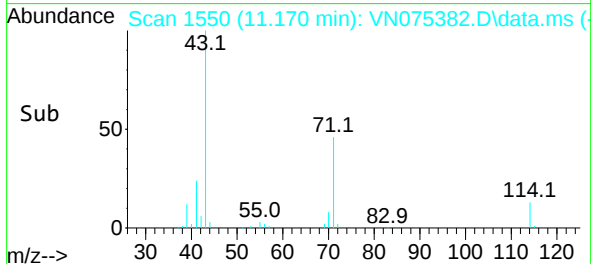
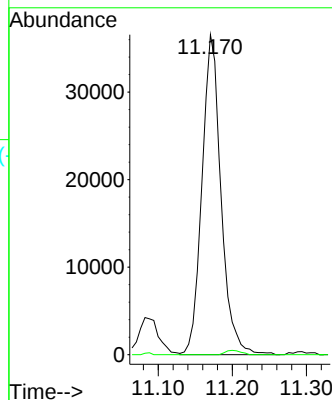
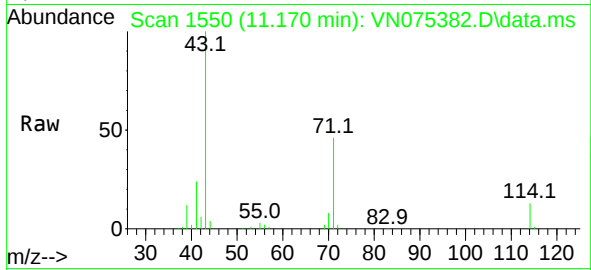




#59
2-Hexanone
Concen: 42.394 ug/l
RT: 11.170 min Scan# 1550
Delta R.T. -0.024 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

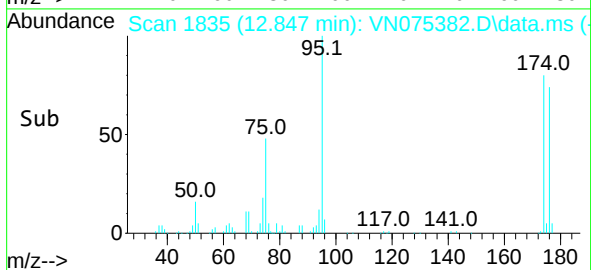
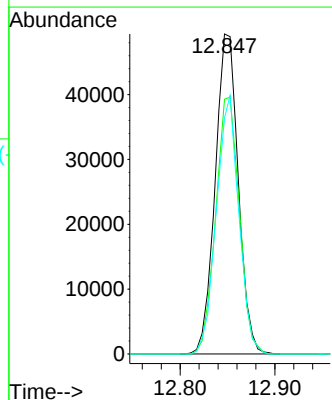
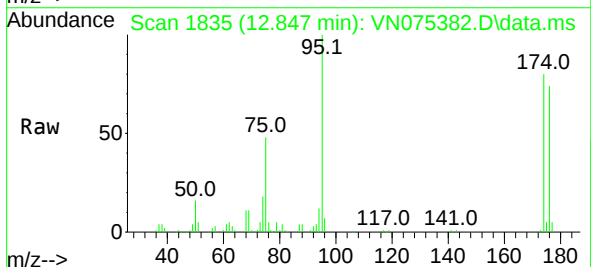
Instrument :
MSVOA_N
ClientSampleId :
MH-84

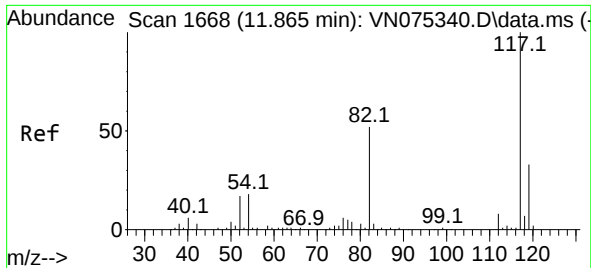
Tgt Ion: 43 Resp: 65331
Ion Ratio Lower Upper
43 100
58 0.0 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 49.165 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.000 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

Tgt Ion: 95 Resp: 83556
Ion Ratio Lower Upper
95 100
174 82.3 0.0 147.4
176 78.4 0.0 142.2

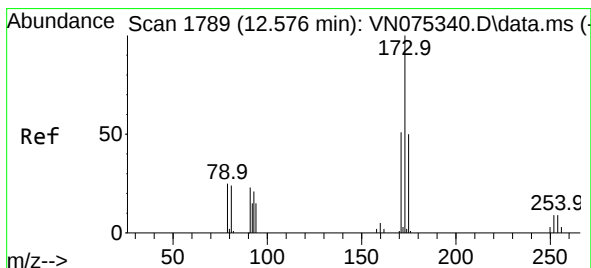
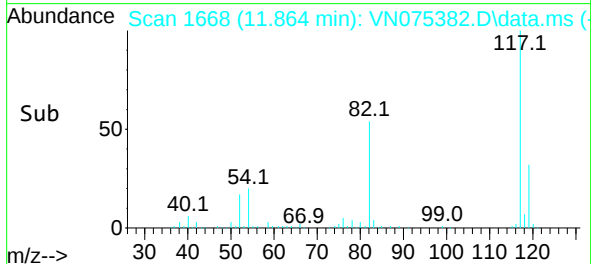
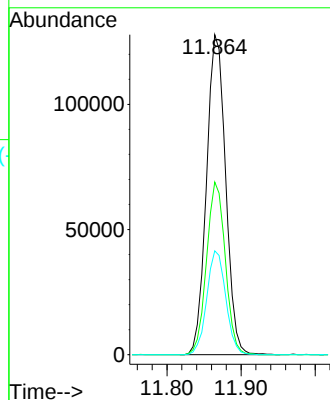
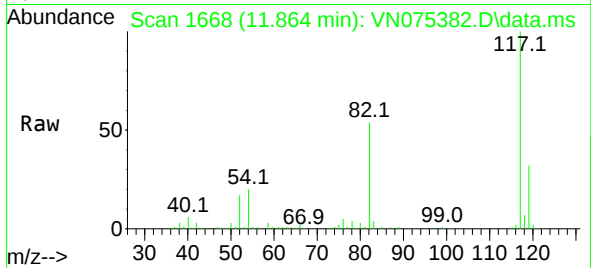




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.864 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

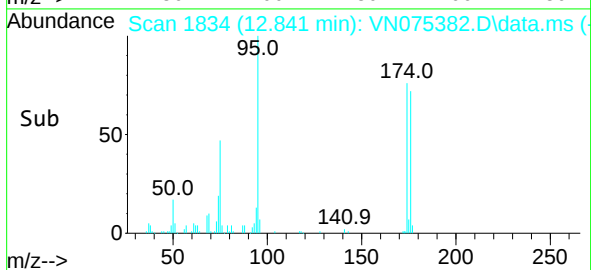
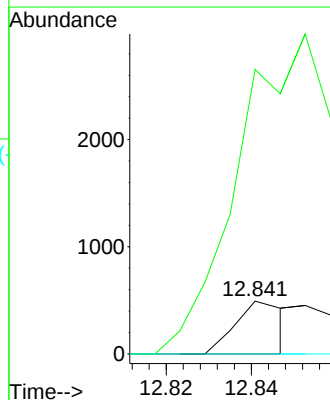
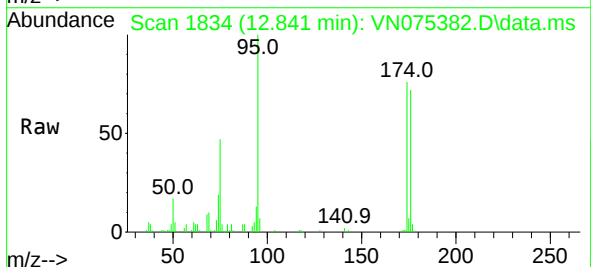
Instrument :
MSVOA_N
ClientSampleId :
MH-84

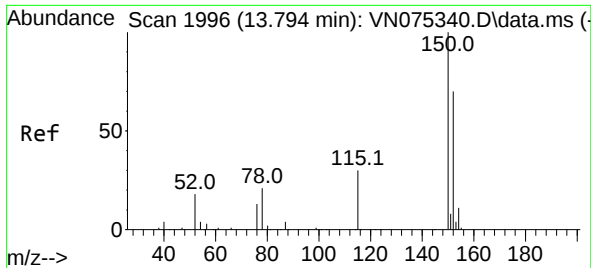
Tgt Ion:117 Resp: 229816
Ion Ratio Lower Upper
117 100
82 54.0 43.1 64.7
119 32.4 25.5 38.3



#71
Bromoform
Concen: 0.297 ug/l
RT: 12.841 min Scan# 1834
Delta R.T. 0.265 min
Lab File: VN075382.D
Acq: 22 Nov 2022 20:54

Tgt Ion:173 Resp: 401
Ion Ratio Lower Upper
173 100
175 639.9 24.6 74.0#
254 0.0 0.0 0.0

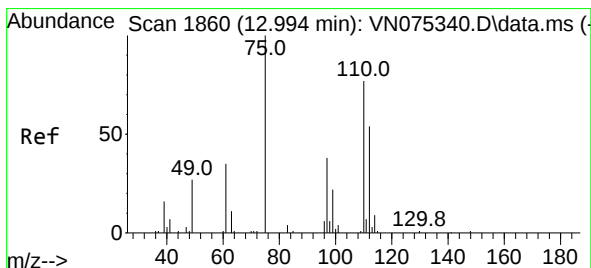
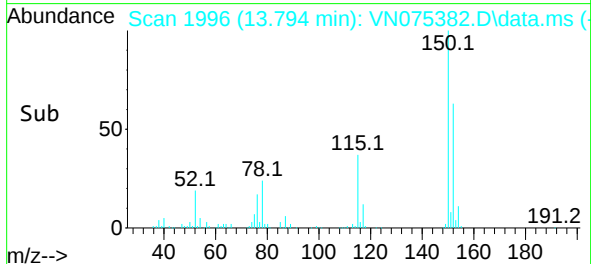
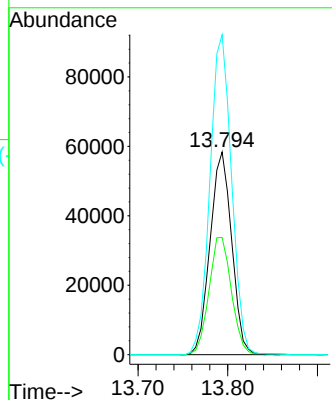
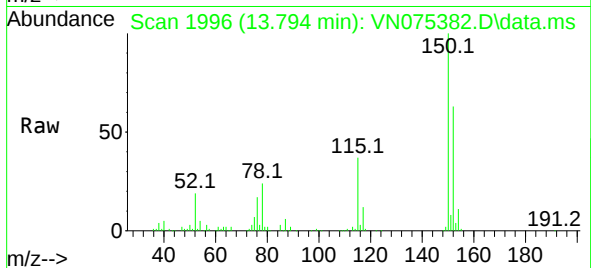




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. -0.000 min
 Lab File: VN075382.D
 Acq: 22 Nov 2022 20:54

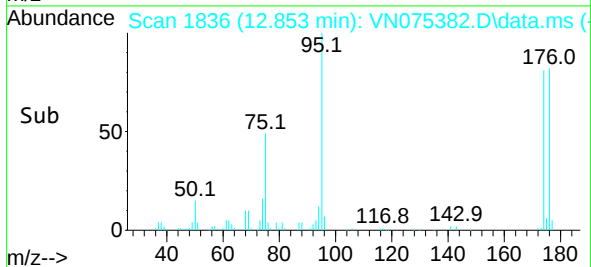
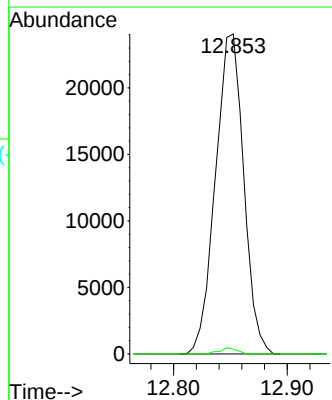
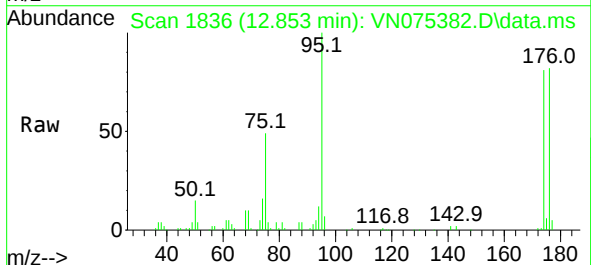
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-84

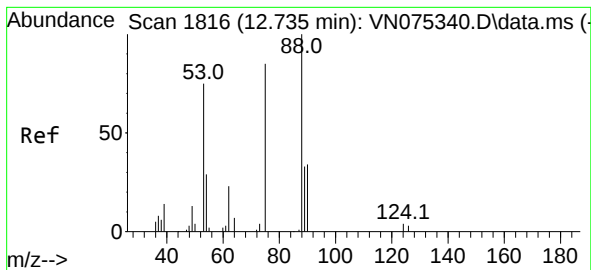
Tgt Ion:152 Resp: 97600
 Ion Ratio Lower Upper
 152 100
 115 60.1 30.2 90.6
 150 157.7 0.0 348.4



#76
 1,2,3-Trichloropropane
 Concen: 22.528 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. -0.141 min
 Lab File: VN075382.D
 Acq: 22 Nov 2022 20:54

Tgt Ion: 75 Resp: 41573
 Ion Ratio Lower Upper
 75 100
 77 1.2 75.6 226.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.656 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN075382.D
 Acq: 22 Nov 2022 20:54

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-84

Tgt Ion: 75 Resp: 41573
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.7 56.5#

