

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122922\
 Data File : VN076047.D
 Acq On : 29 Dec 2022 14:30
 Operator : JC\MD
 Sample : N6228-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Dec 30 05:33:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

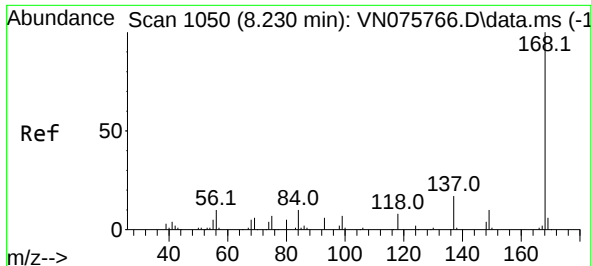
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	366017	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	582022	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	529272	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	219494	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	182583	45.853	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.700%		
35) Dibromofluoromethane	8.177	113	169525	47.033	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.060%		
50) Toluene-d8	10.571	98	675530	50.127	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.260%		
62) 4-Bromofluorobenzene	12.853	95	215559	48.294	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.580%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.553	59	144	0.256	ug/l #	72
16) Acetone	4.453	43	41690	30.372	ug/l	95
18) Methyl Acetate	5.047	43	3064	0.755	ug/l #	66
20) Methylene Chloride	5.289	84	12377	2.766	ug/l	92
25) 2-Butanone	7.494	43	6871	3.575	ug/l	96
29) Tetrahydrofuran	7.859	42	343	0.285	ug/l #	25
31) Cyclohexane	8.230	56	6443	1.130	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	24924	5.205	ug/l #	50
37) Ethyl Acetate	7.565	43	32648	8.489	ug/l	98
38) Carbon Tetrachloride	8.230	117	36073	6.731	ug/l #	15
42) 1,2-Dichloroethane	8.694	62	1390	0.283	ug/l #	72
43) Isopropyl Acetate	8.694	43	187789	29.600	ug/l #	84
45) 1,2-Dichloropropane	9.747	63	1934	0.538	ug/l #	43
48) Methyl methacrylate	9.747	41	130520	45.678	ug/l #	34
49) 1,4-Dioxane	9.735	88	177	2.520	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	15902	4.145	ug/l #	72
53) t-1,3-Dichloropropene	10.735	75	1105	0.216	ug/l	91
54) cis-1,3-Dichloropropene	10.359	75	67275	11.971	ug/l #	67
56) Ethyl methacrylate	10.988	69	1690	0.337	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9262	1.495	ug/l #	42
59) 2-Hexanone	11.171	43	129314	46.217	ug/l #	20
71) Bromoform	12.853	173	1781	0.608	ug/l #	1
74) N-amyl acetate	12.494	43	1491	0.320	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	109916	24.843	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	109916	89.422	ug/l #	12
95) Naphthalene	15.641	128	2918	2.411	ug/l #	76

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

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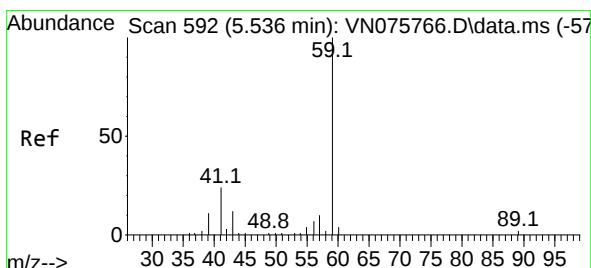
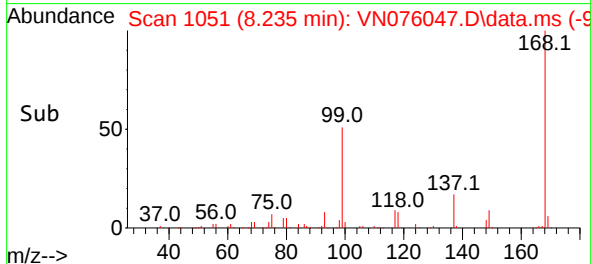
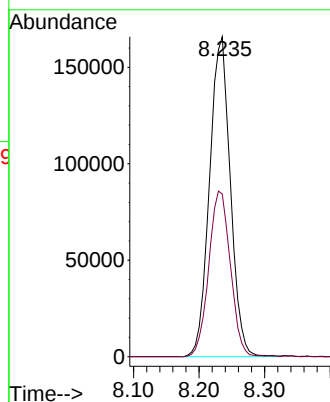
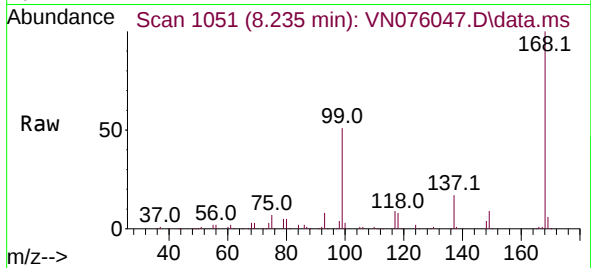




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1050
Delta R.T. 0.005 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

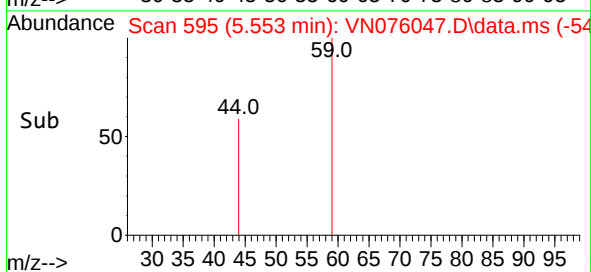
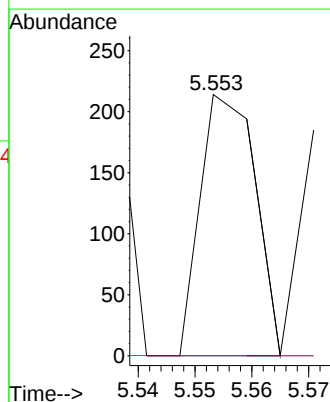
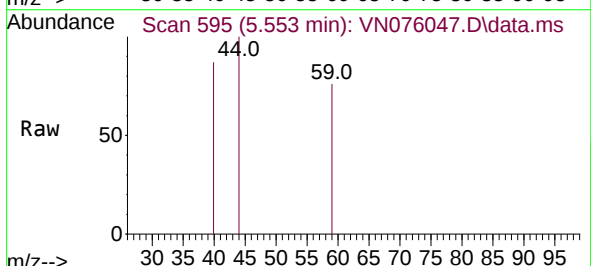
Instrument :
MSVOA_N
ClientSampleId :
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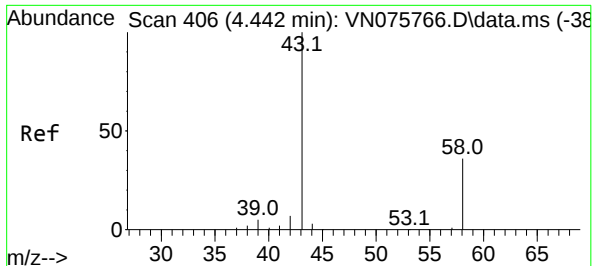
Tgt Ion:168 Resp: 366017
Ion Ratio Lower Upper
168 100
99 50.8 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.256 ug/l
RT: 5.553 min Scan# 595
Delta R.T. 0.018 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion: 59 Resp: 144
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

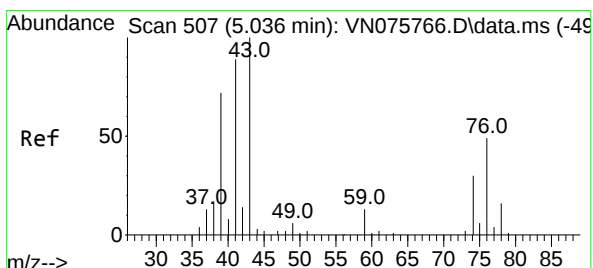
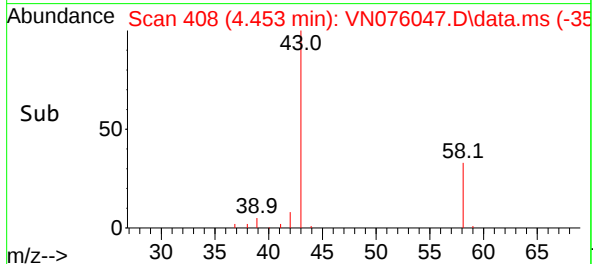
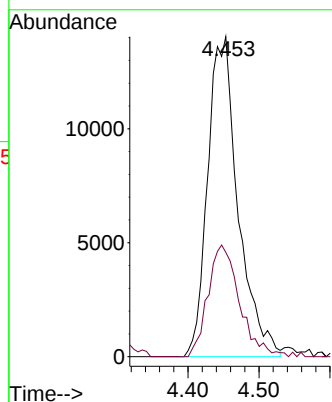
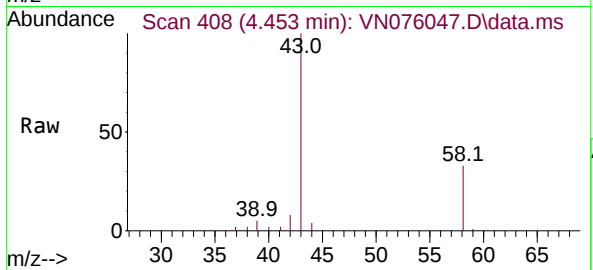




#16
Acetone
Concen: 30.372 ug/l
RT: 4.453 min Scan# 406
Delta R.T. 0.012 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

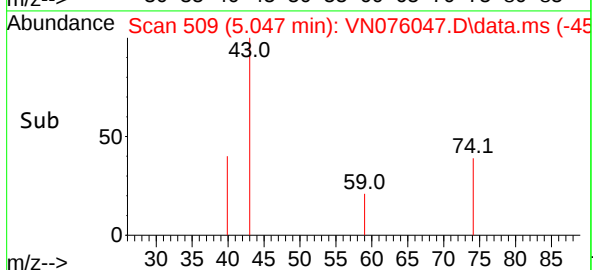
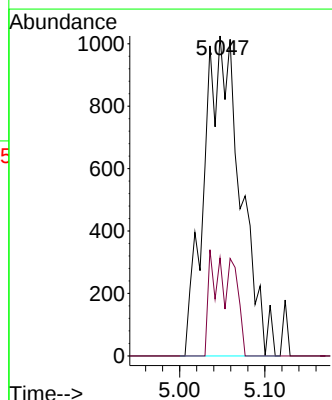
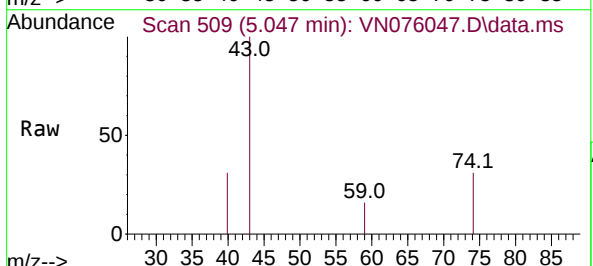
Instrument :
MSVOA_N
ClientSampleId :
TP-3

Tgt Ion: 43 Resp: 41690
Ion Ratio Lower Upper
43 100
58 32.6 28.6 43.0



#18
Methyl Acetate
Concen: 0.755 ug/l
RT: 5.047 min Scan# 509
Delta R.T. 0.012 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion: 43 Resp: 3064
Ion Ratio Lower Upper
43 100
74 11.4 23.6 35.4#

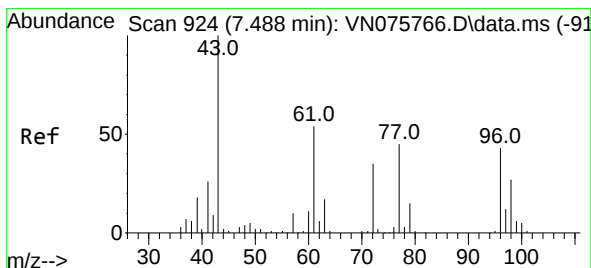
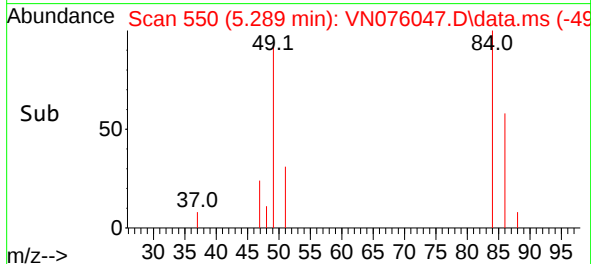
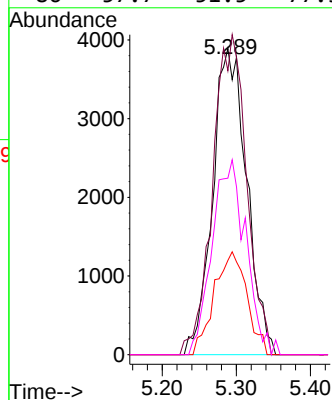
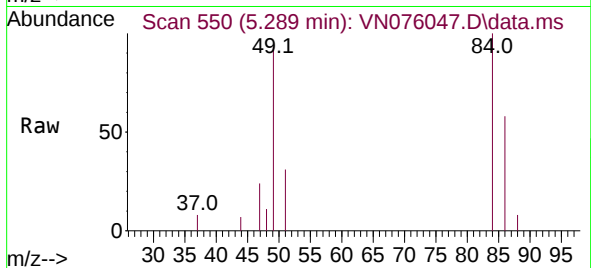




#20
Methylene Chloride
Concen: 2.766 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

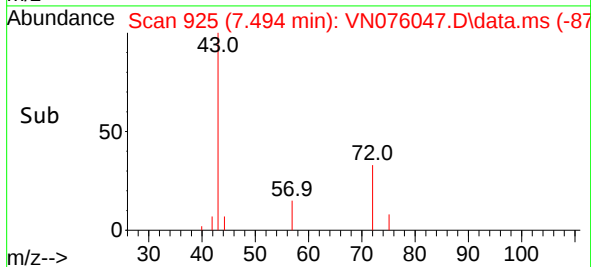
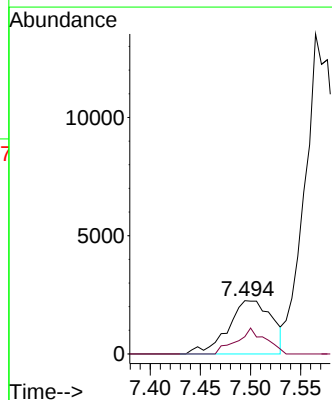
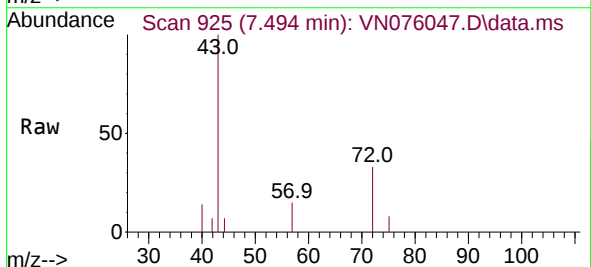
Instrument :
MSVOA_N
ClientSampleId :
TP-3

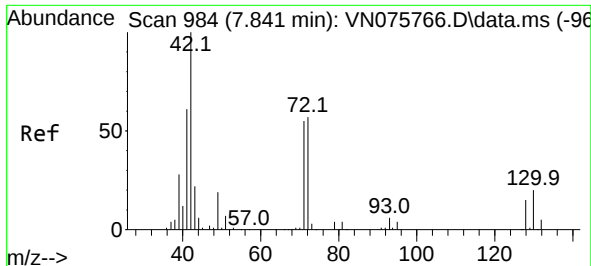
Tgt Ion: 84	Resp: 12377
Ion Ratio	Lower Upper
84 100	
49 92.8	81.8 122.6
51 30.8	26.7 40.1
86 57.7	51.5 77.3



#25
2-Butanone
Concen: 3.575 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion: 43	Resp: 6871		
Ion Ratio	Lower	Upper	
43 100			
72 32.6	28.0	42.0	





#29

Tetrahydrofuran

Concen: 0.285 ug/l

RT: 7.859 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

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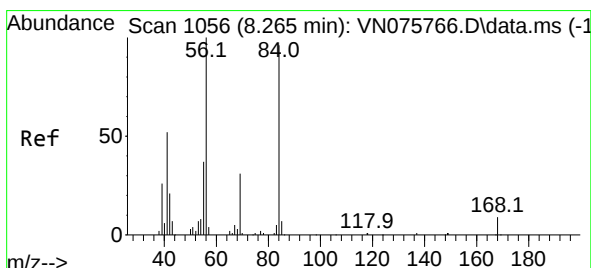
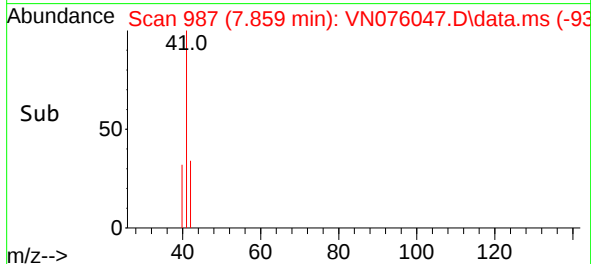
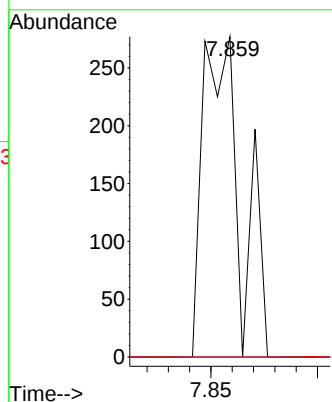
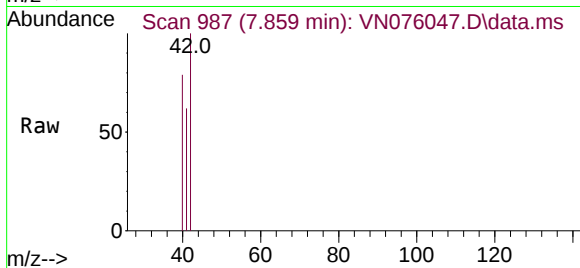
Tgt Ion: 42 Resp: 343

Ion Ratio Lower Upper

42 100

72 0.0 44.5 66.7#

71 0.0 41.0 61.6#



#31

Cyclohexane

Concen: 1.130 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

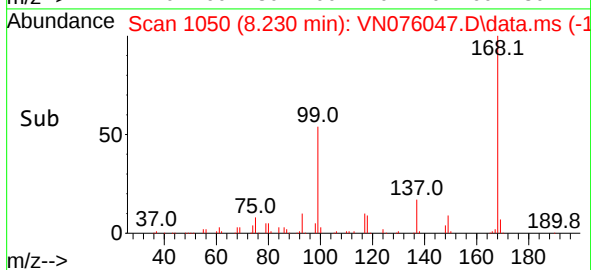
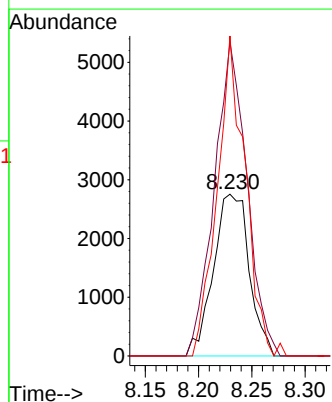
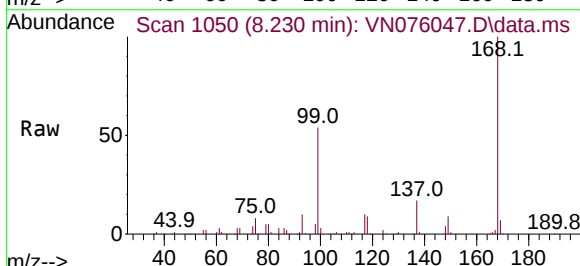
Tgt Ion: 56 Resp: 6443

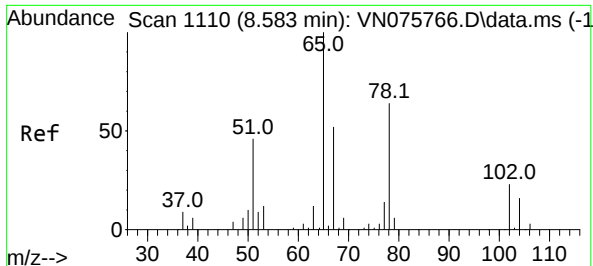
Ion Ratio Lower Upper

56 100

69 194.2 24.7 37.1#

84 197.8 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 45.853 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

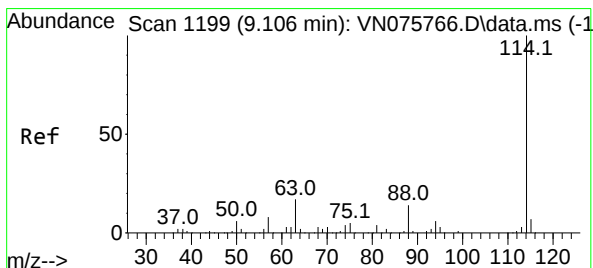
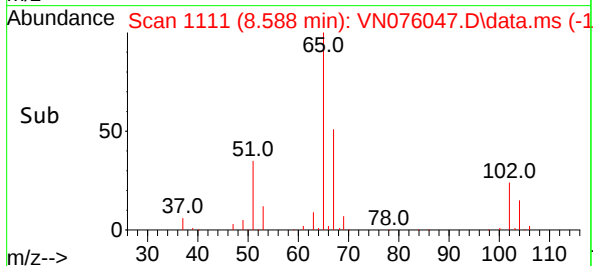
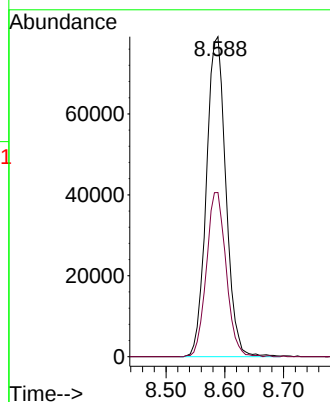
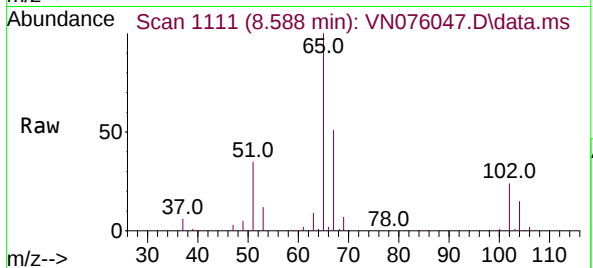
TP-3

Tgt Ion: 65 Resp: 182583

Ion Ratio Lower Upper

65 100

67 51.8 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

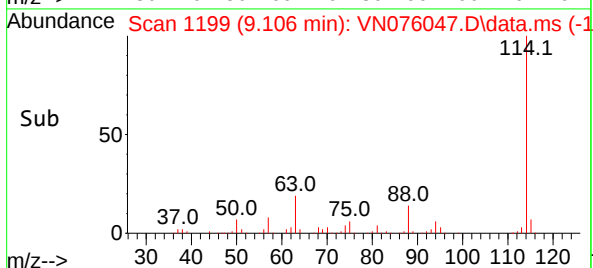
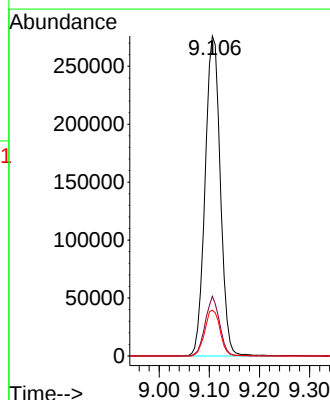
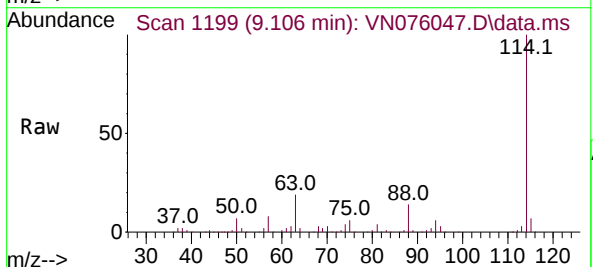
Tgt Ion: 114 Resp: 582022

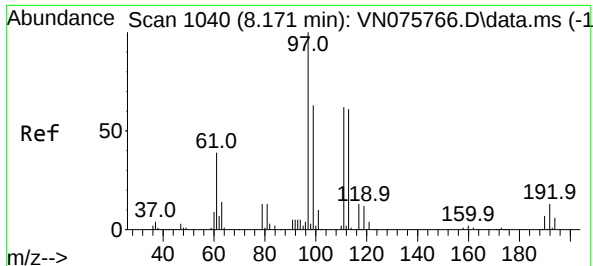
Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.4

88 14.3 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.033 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

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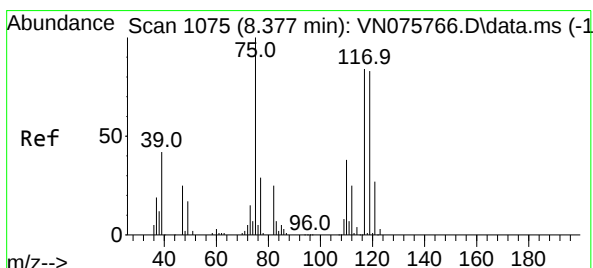
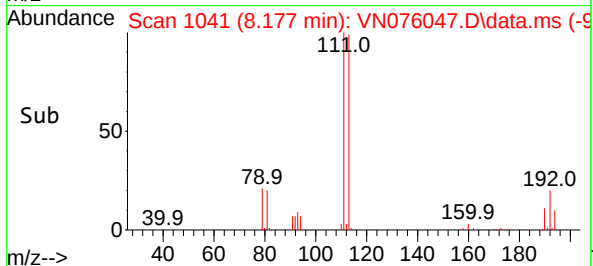
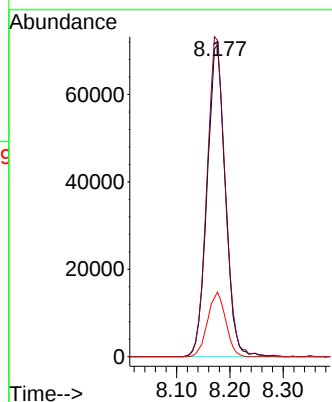
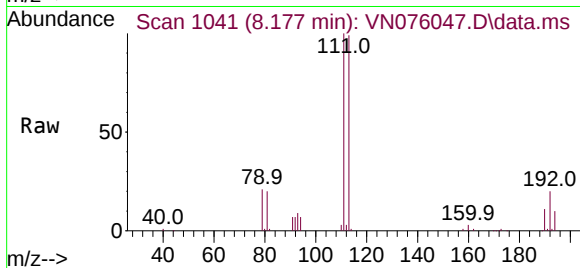
Tgt Ion:113 Resp: 169525

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.2

192 20.5 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.205 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

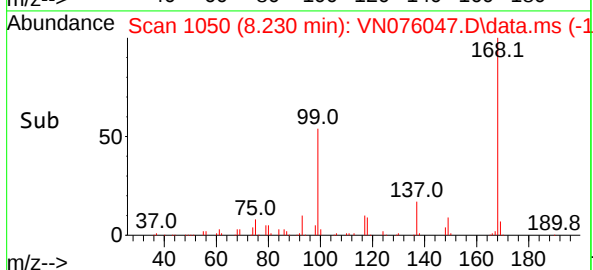
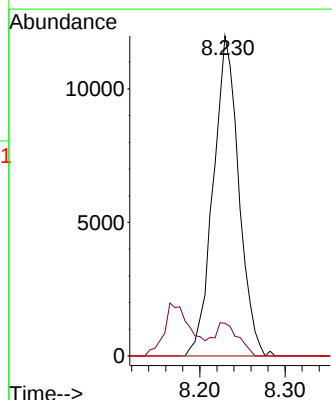
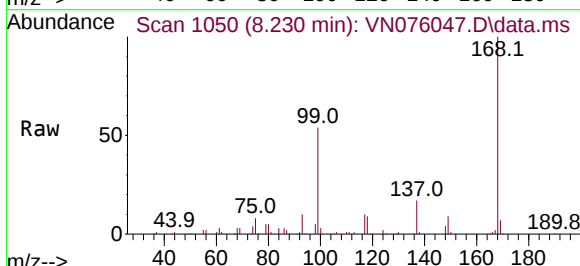
Tgt Ion: 75 Resp: 24924

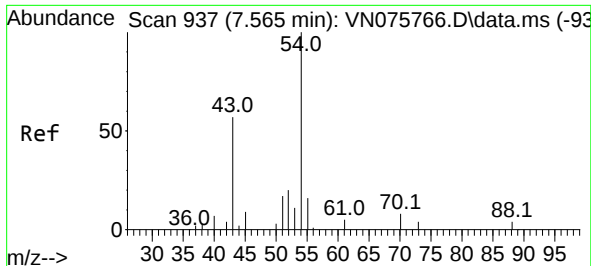
Ion Ratio Lower Upper

75 100

110 10.0 18.8 56.4#

77 0.0 24.1 36.1#

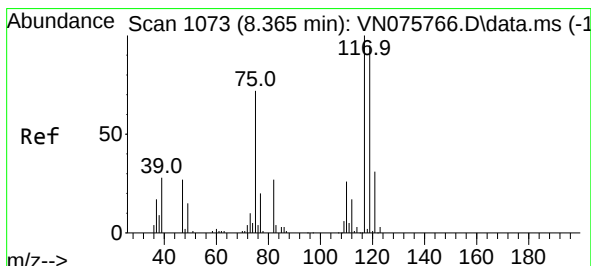
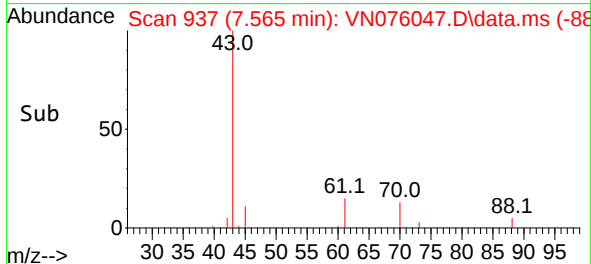
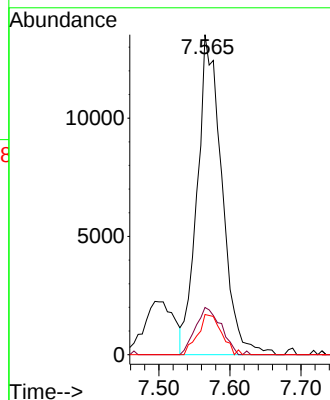
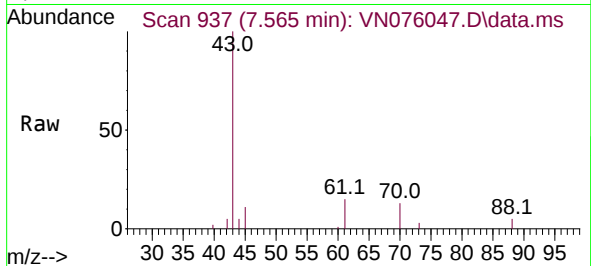




#37
Ethyl Acetate
Concen: 8.489 ug/l
RT: 7.565 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

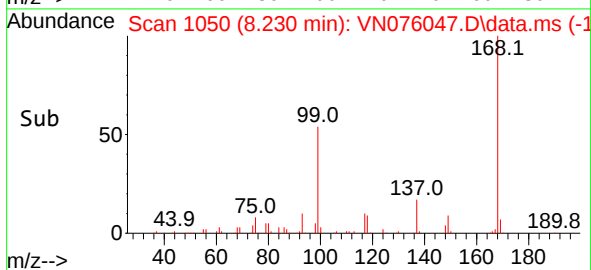
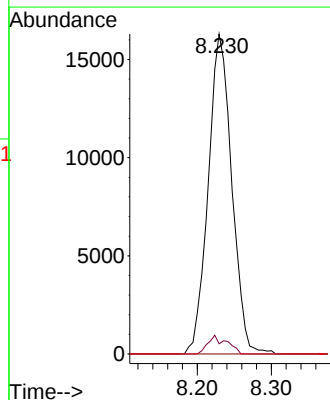
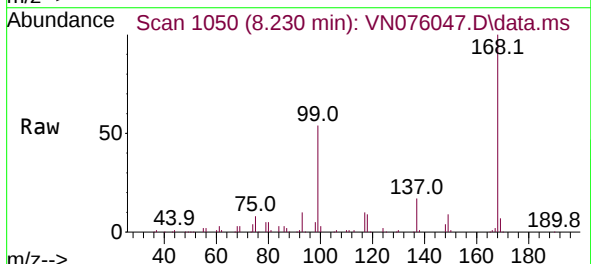
Instrument :
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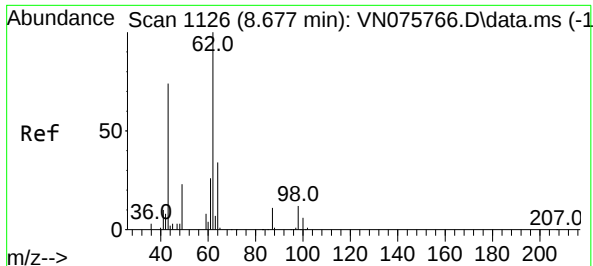
Tgt Ion: 43 Resp: 32648
Ion Ratio Lower Upper
43 100
61 15.3 13.0 19.4
70 12.0 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.731 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion: 117 Resp: 36073
Ion Ratio Lower Upper
117 100
119 3.2 76.1 114.1#
121 0.0 24.5 36.7#





#42

1,2-Dichloroethane

Concen: 0.283 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.018 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

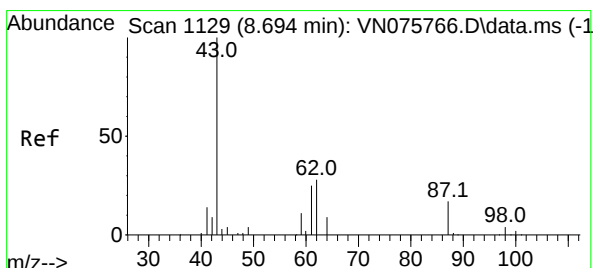
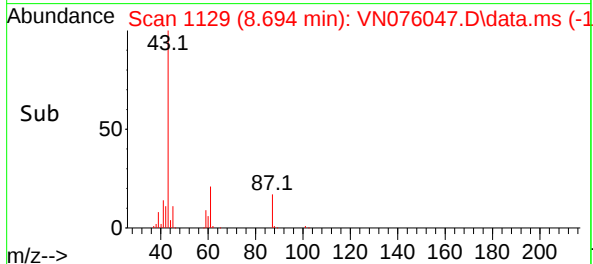
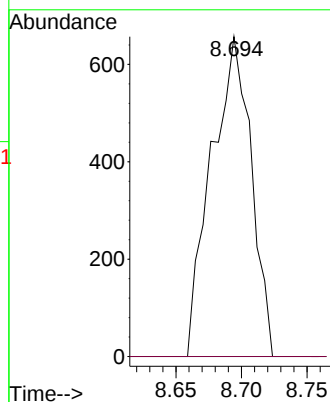
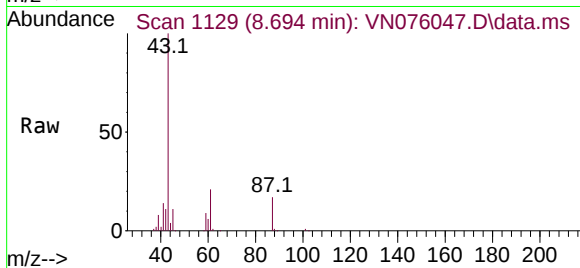
TP-3

Tgt Ion: 62 Resp: 1390

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 29.600 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

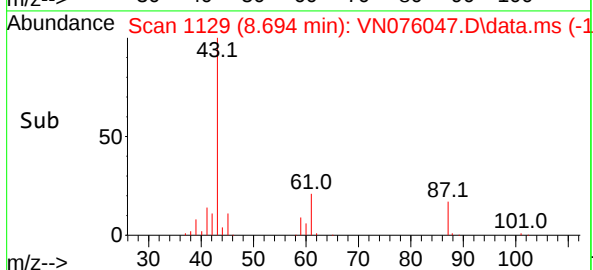
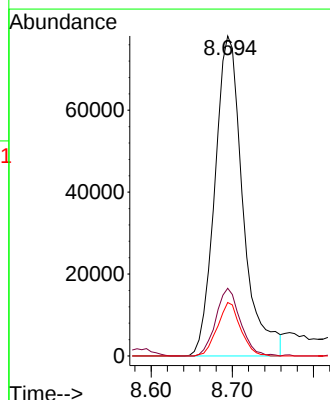
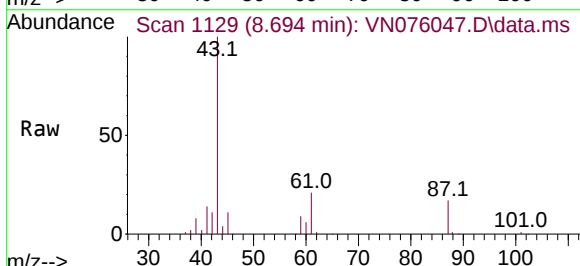
Tgt Ion: 43 Resp: 187789

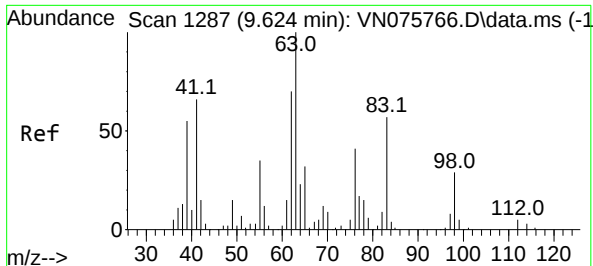
Ion Ratio Lower Upper

43 100

61 18.4 24.2 36.4#

87 13.7 13.3 19.9





#45

1,2-Dichloropropane

Concen: 0.538 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

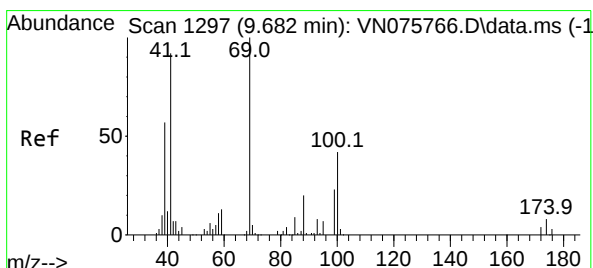
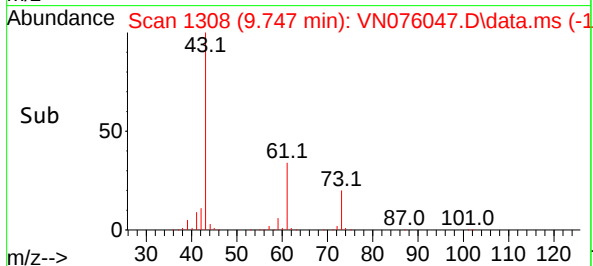
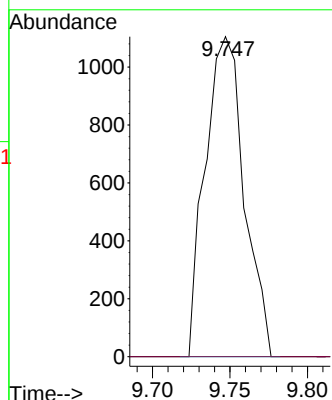
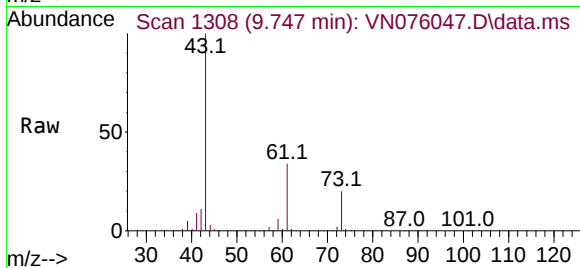
TP-3

Tgt Ion: 63 Resp: 1934

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 45.678 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.065 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

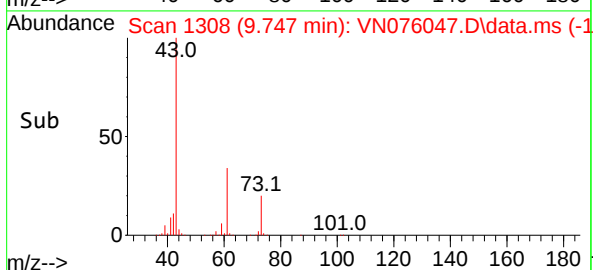
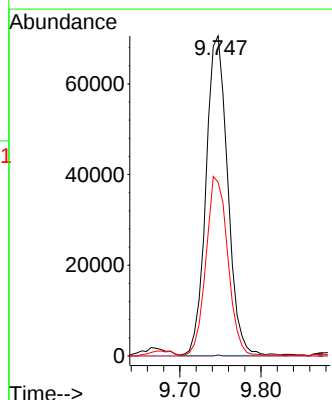
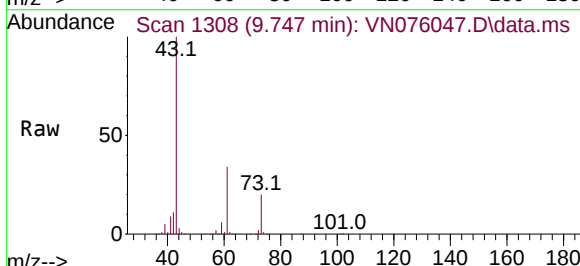
Tgt Ion: 41 Resp: 130520

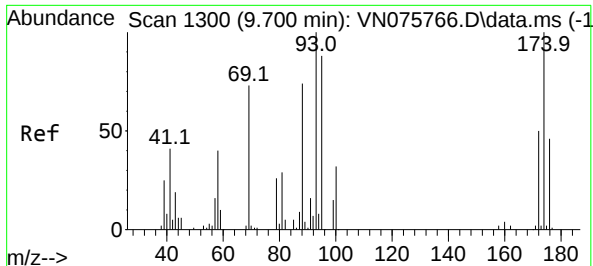
Ion Ratio Lower Upper

41 100

69 0.1 81.9 122.9#

39 56.9 51.6 77.4





#49

1,4-Dioxane

Concen: 2.520 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

TP-3

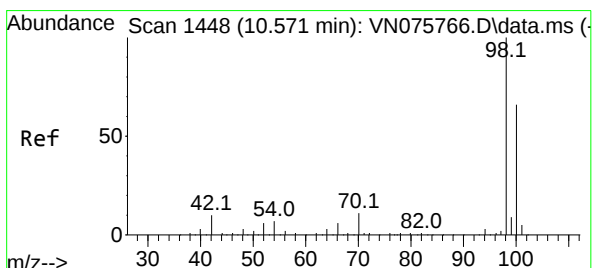
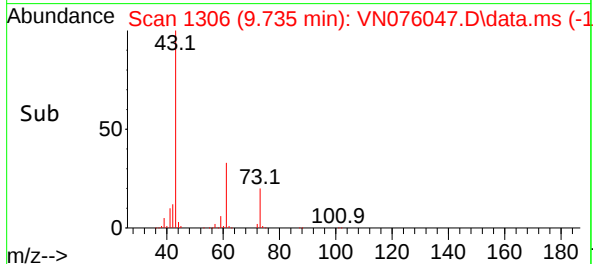
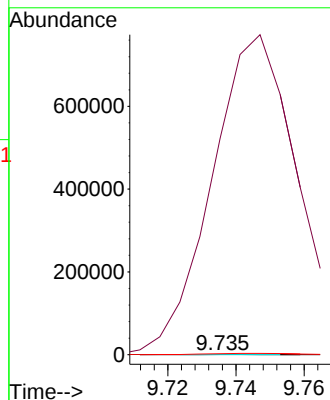
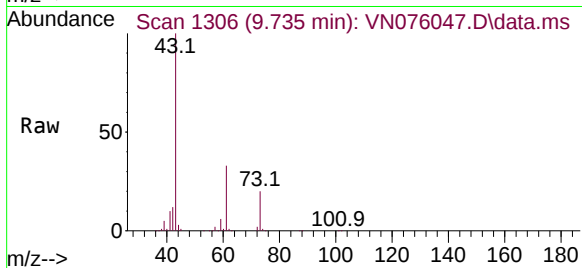
Tgt Ion: 88 Resp: 177

Ion Ratio Lower Upper

88 100

43 0.0 17.1 25.7#

58 0.0 47.8 71.8#



#50

Toluene-d8

Concen: 50.127 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076047.D

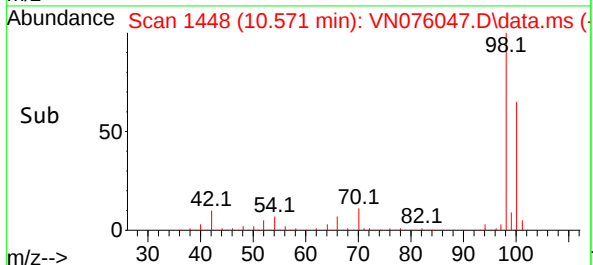
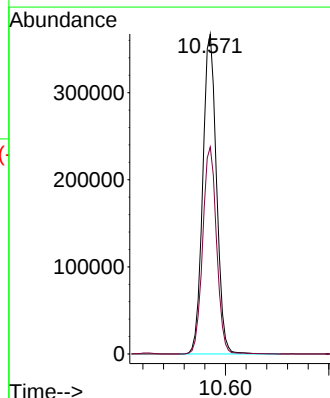
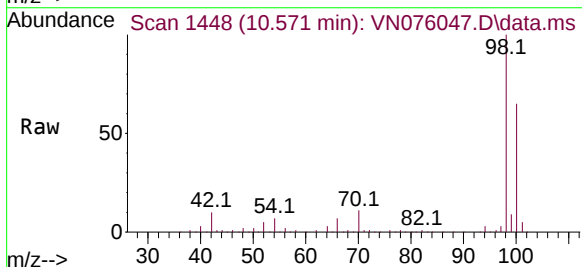
Acq: 29 Dec 2022 14:30

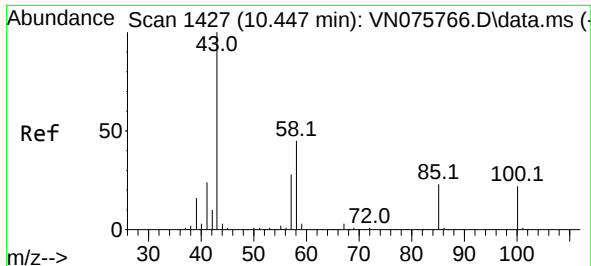
Tgt Ion: 98 Resp: 675530

Ion Ratio Lower Upper

98 100

100 65.4 52.1 78.1

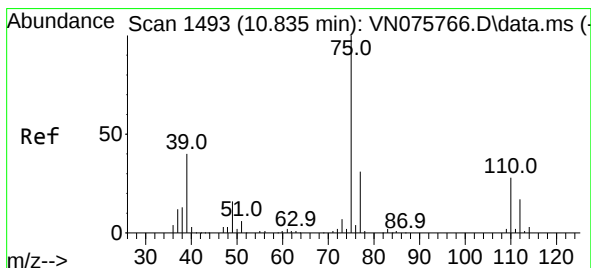
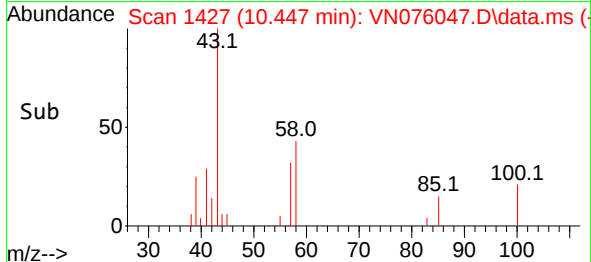
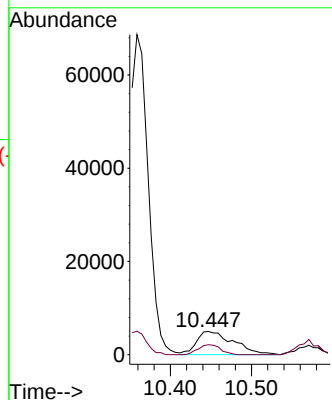
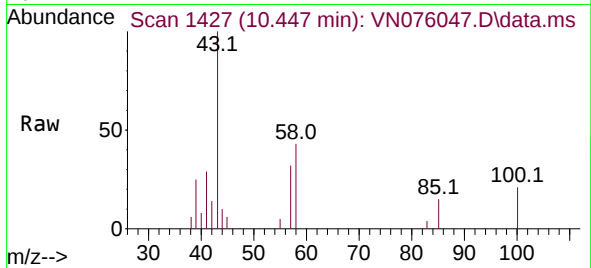




#51
4-Methyl-2-Pentanone
Concen: 4.145 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

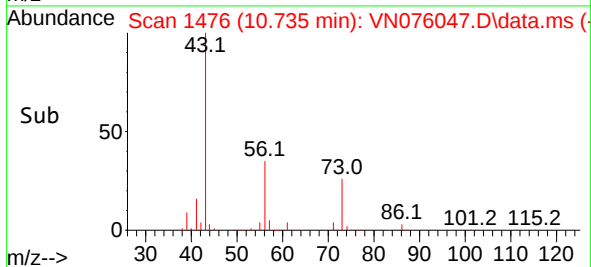
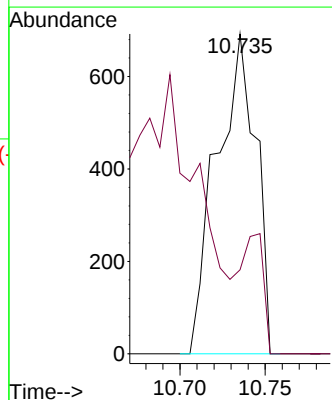
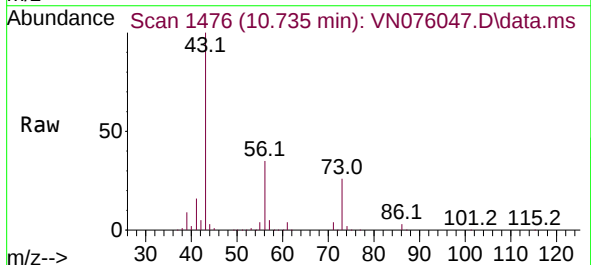
Instrument :
MSVOA_N
ClientSampleId :
TP-3

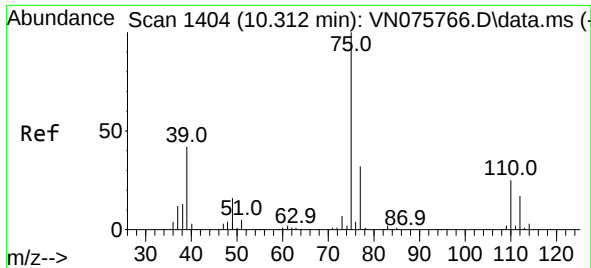
Tgt Ion: 43 Resp: 15902
Ion Ratio Lower Upper
43 100
58 25.9 35.5 53.3#



#53
t-1,3-Dichloropropene
Concen: 0.216 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion: 75 Resp: 1105
Ion Ratio Lower Upper
75 100
77 26.3 24.9 37.3

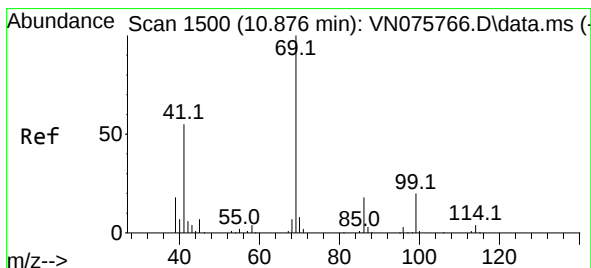
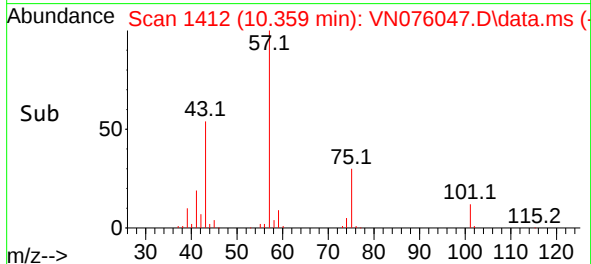
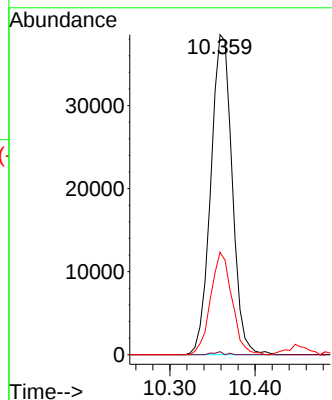
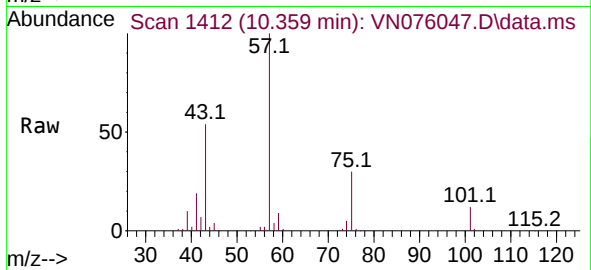




#54
 cis-1,3-Dichloropropene
 Concen: 11.971 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN076047.D
 Acq: 29 Dec 2022 14:30

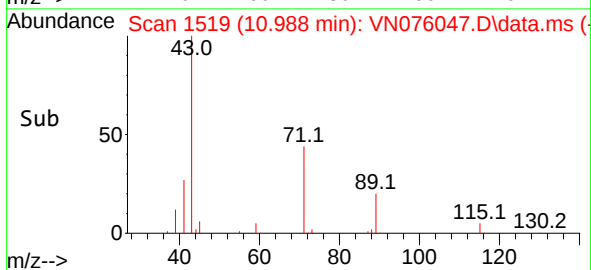
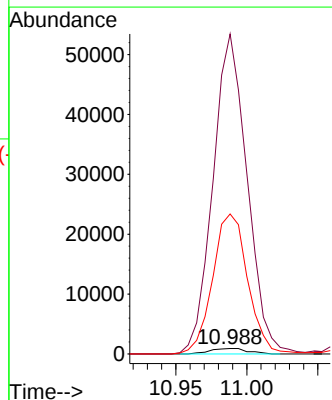
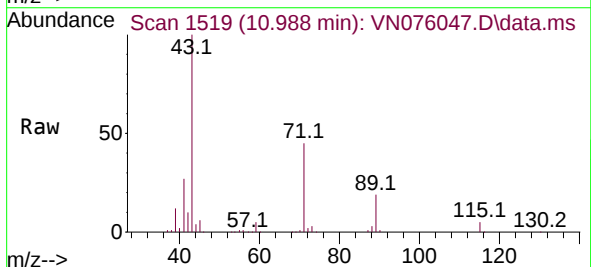
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

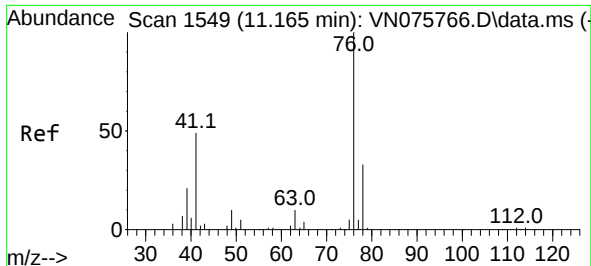
Tgt Ion: 75 Resp: 67275
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.8 38.8#
 39 32.0 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.337 ug/l
 RT: 10.988 min Scan# 1519
 Delta R.T. 0.112 min
 Lab File: VN076047.D
 Acq: 29 Dec 2022 14:30

Tgt Ion: 69 Resp: 1690
 Ion Ratio Lower Upper
 69 100
 41 5305.2 44.2 66.4#
 39 2384.0 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.495 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN076047.D

Acq: 29 Dec 2022 14:30

Instrument :

MSVOA_N

ClientSampleId :

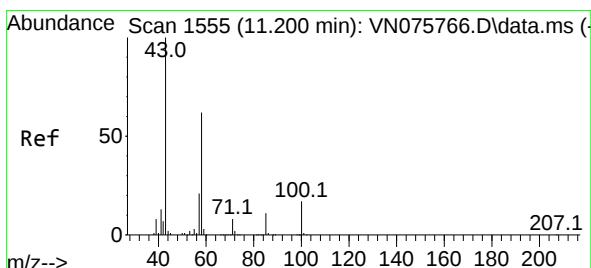
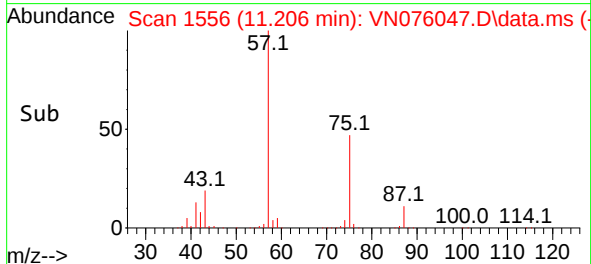
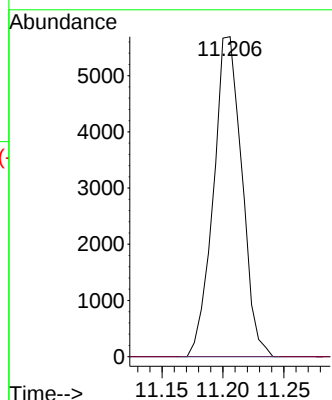
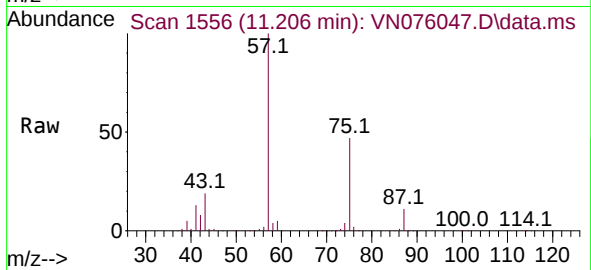
TP-3

Tgt Ion: 76 Resp: 9262

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 46.217 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.029 min

Lab File: VN076047.D

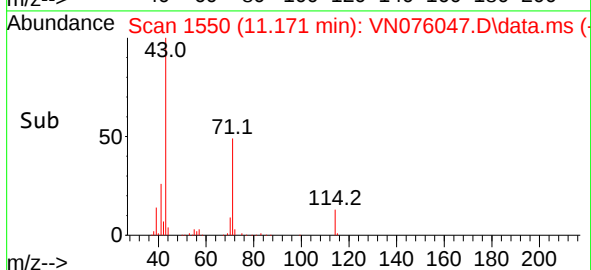
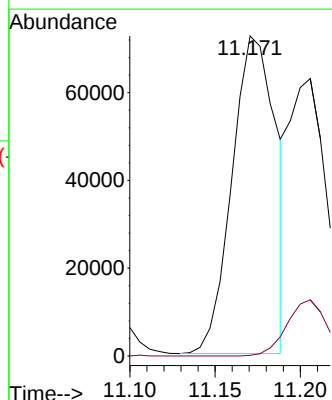
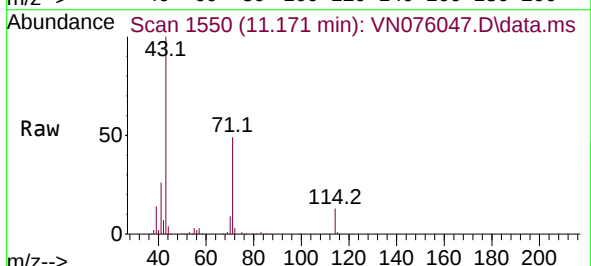
Acq: 29 Dec 2022 14:30

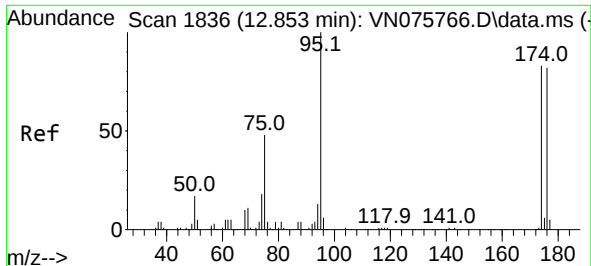
Tgt Ion: 43 Resp: 129314

Ion Ratio Lower Upper

43 100

58 0.0 30.6 92.0#

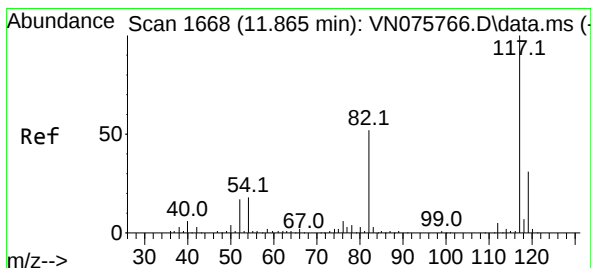
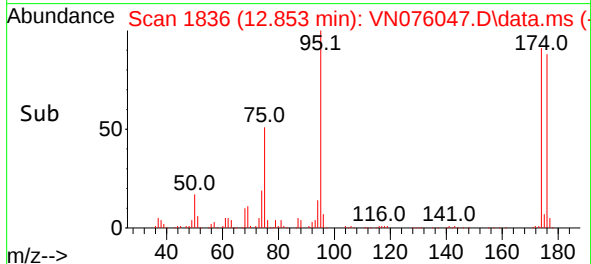
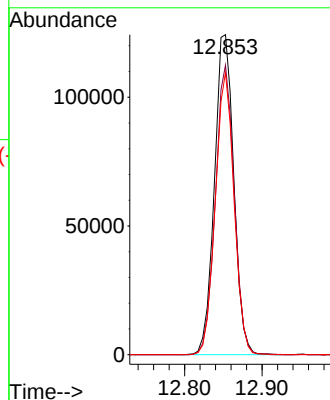
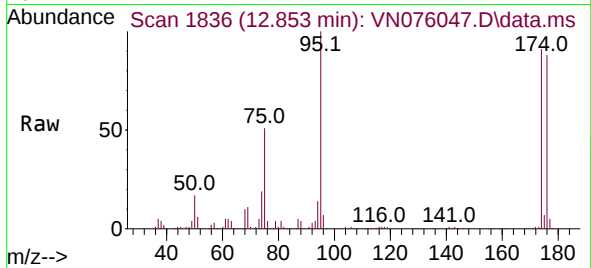




#62
4-Bromofluorobenzene
Concen: 48.294 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

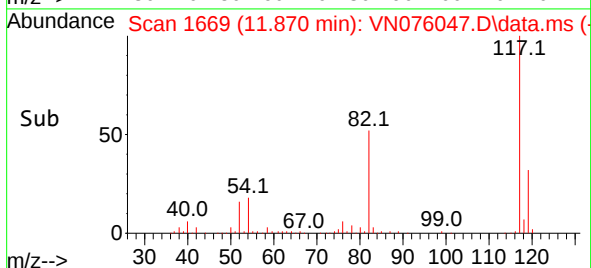
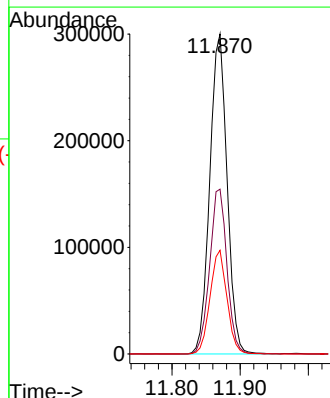
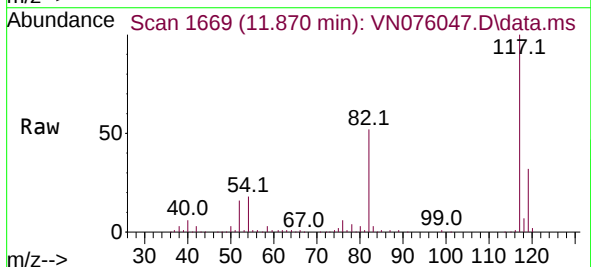
Instrument :
MSVOA_N
ClientSampleId :
TP-3

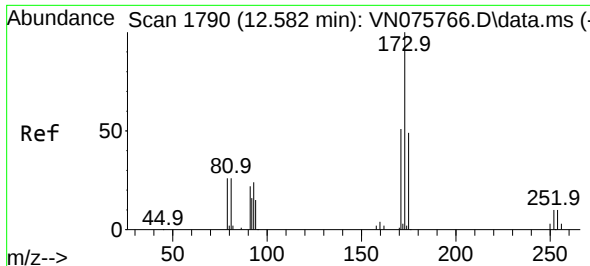
Tgt Ion: 95 Resp: 215559
Ion Ratio Lower Upper
95 100
174 88.0 0.0 171.6
176 85.1 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion: 117 Resp: 529272
Ion Ratio Lower Upper
117 100
82 51.5 41.3 61.9
119 32.4 24.6 37.0

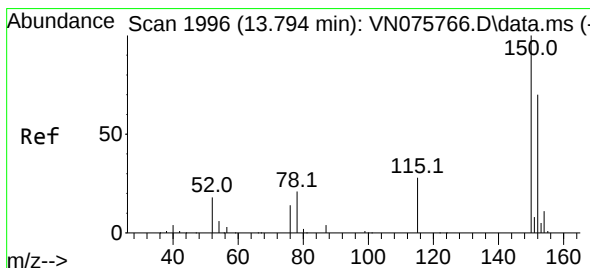
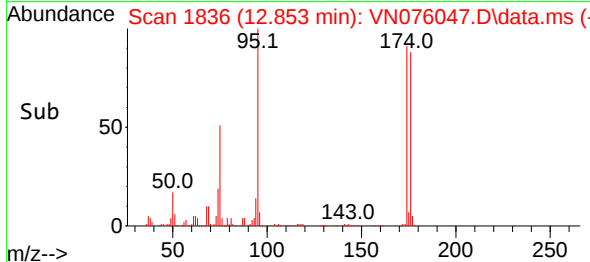
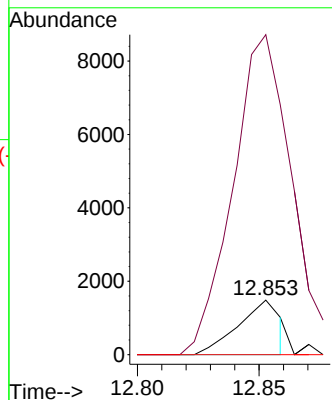
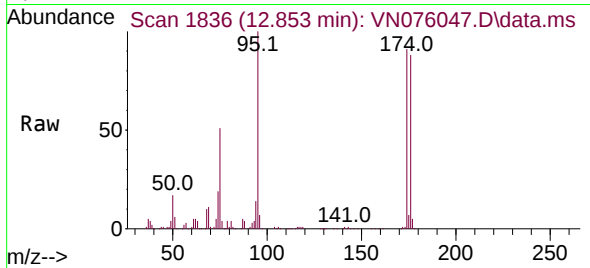




#71
Bromoform
Concen: 0.608 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.270 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

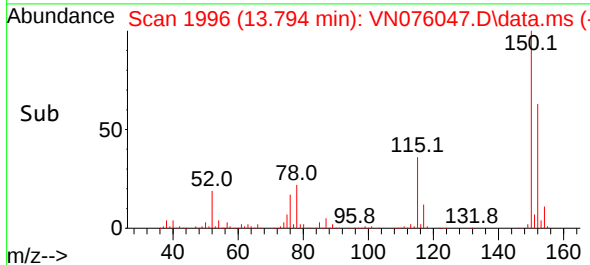
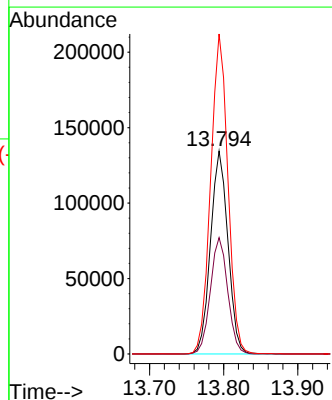
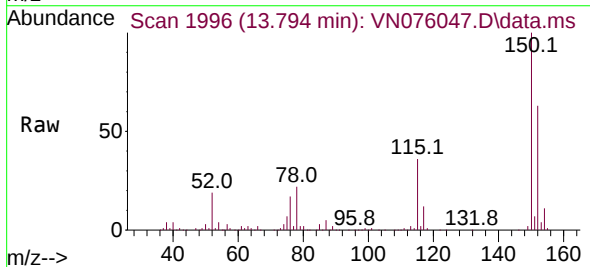
Instrument :
MSVOA_N
ClientSampleId :
TP-3

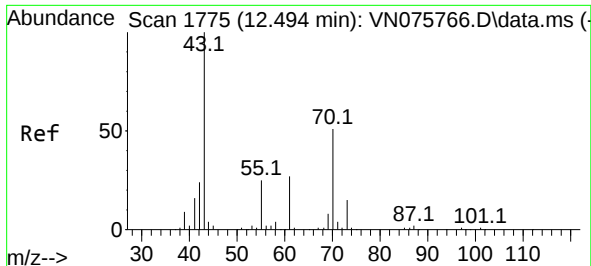
Tgt Ion:173 Resp: 1781
Ion Ratio Lower Upper
173 100
175 670.5 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion:152 Resp: 219494
Ion Ratio Lower Upper
152 100
115 57.0 29.1 87.4
150 156.1 0.0 347.0

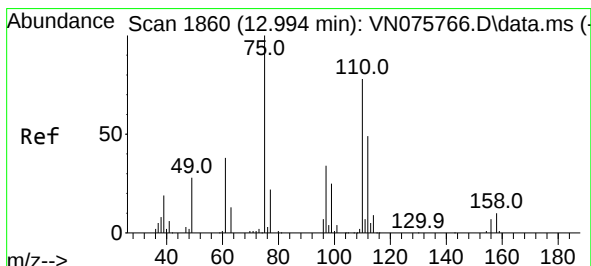
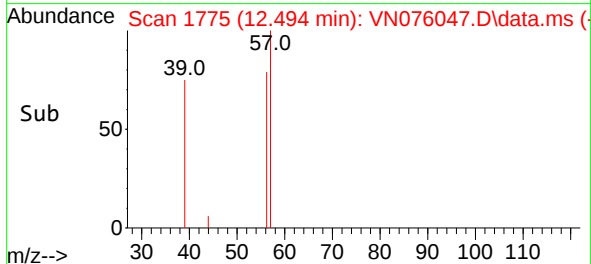
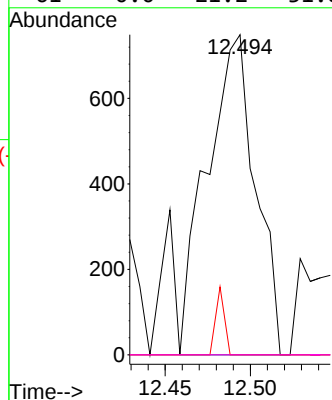
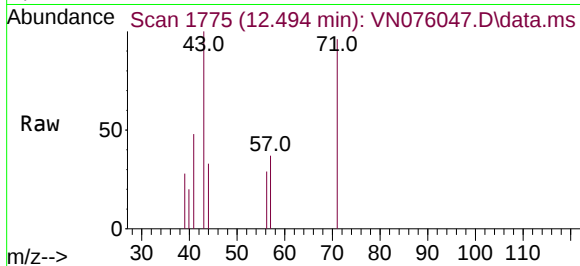




#74
N-amy1 acetate
Concen: 0.320 ug/l
RT: 12.494 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

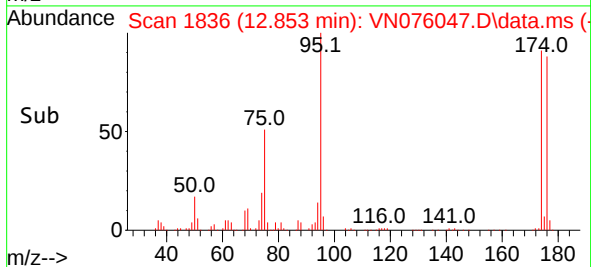
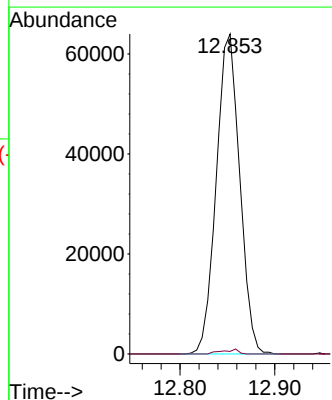
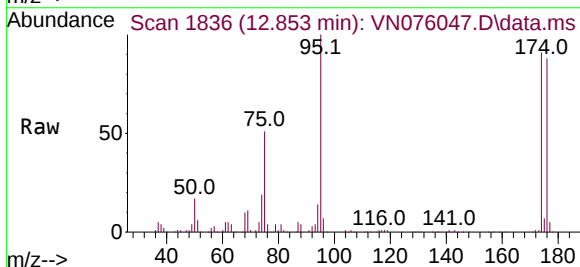
Instrument :
MSVOA_N
ClientSampleId :
TP-3

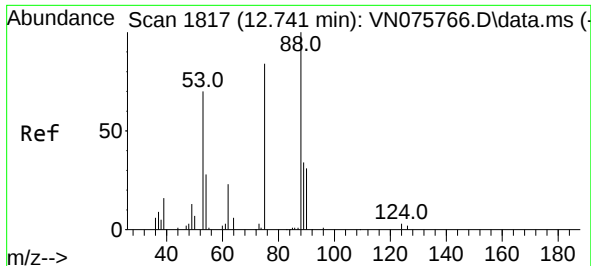
Tgt Ion: 43	Resp: 1491
Ion Ratio	Lower Upper
43 100	
70 0.0	41.4 62.0#
55 3.8	21.3 31.9#
61 0.0	21.2 31.8#



#76
1,2,3-Trichloropropane
Concen: 24.843 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion: 75	Resp: 109916
Ion Ratio	Lower Upper
75 100	
77 1.0	82.6 247.8#

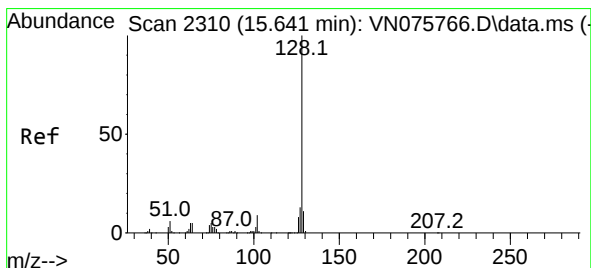
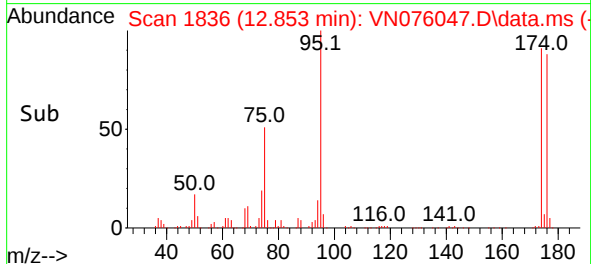
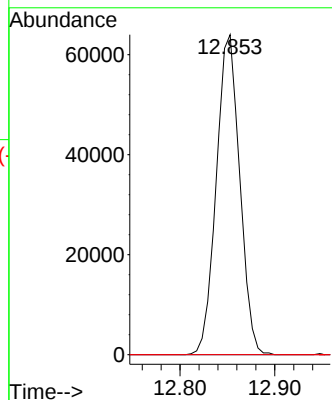
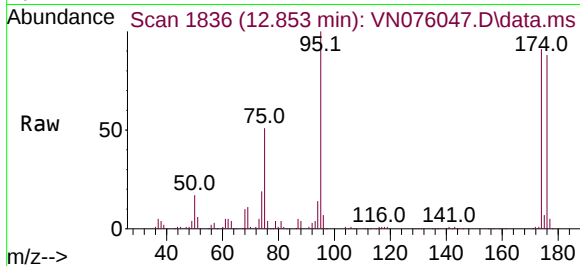




#81
trans-1,4-Dichloro-2-butene
Concen: 89.422 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Instrument :
MSVOA_N
ClientSampleId :
TP-3

Tgt Ion: 75 Resp: 109916
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 2.411 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN076047.D
Acq: 29 Dec 2022 14:30

Tgt Ion:128 Resp: 2918
Ion Ratio Lower Upper
128 100
127 3.5 10.4 15.6#
129 2.0 8.7 13.1#

