

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122322\
 Data File : VN075968.D
 Acq On : 23 Dec 2022 15:58
 Operator : JC\MD
 Sample : PB149839ZHE03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB149839ZHE#03

Quant Time: Dec 26 04:34:38 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)

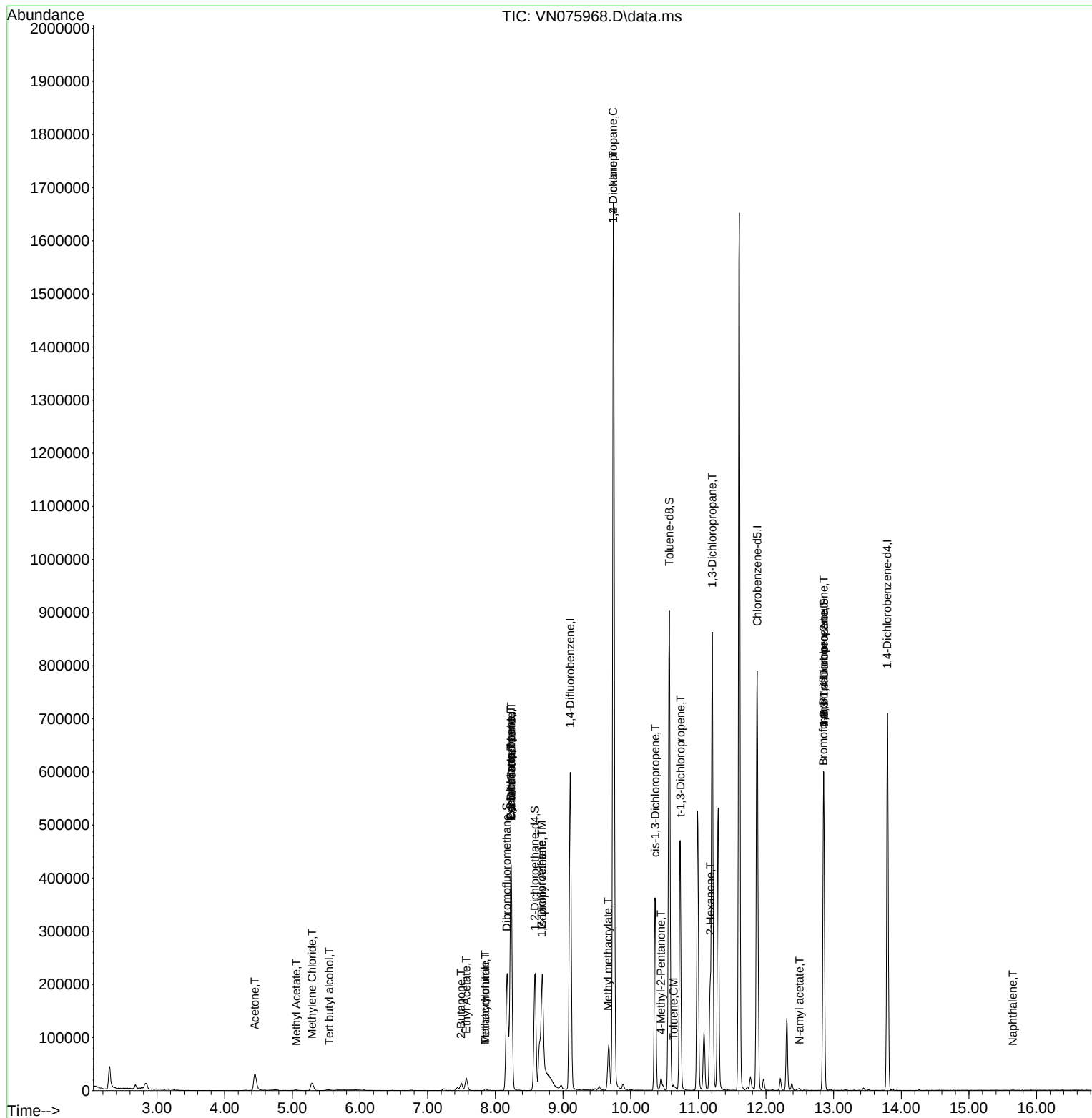
Internal Standards						
1) Pentafluorobenzene	8.236	168	332576	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	545945	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	486983	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	197362	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	177000	48.920	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.840%		
35) Dibromofluoromethane	8.171	113	158696	46.938	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.880%		
50) Toluene-d8	10.571	98	636063	50.317	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.640%		
62) 4-Bromofluorobenzene	12.853	95	198918	47.510	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.020%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.542	59	332	0.648	ug/l #	72
16) Acetone	4.448	43	61348	49.187	ug/l	97
18) Methyl Acetate	5.059	43	2724	0.739	ug/l #	82
20) Methylene Chloride	5.289	84	12105	3.026	ug/l	87
25) 2-Butanone	7.494	43	20983	12.015	ug/l	91
29) Tetrahydrofuran	7.853	42	2241	2.048	ug/l	87
31) Cyclohexane	8.230	56	6350	1.225	ug/l #	26
36) 1,1-Dichloropropene	8.230	75	24465	5.447	ug/l #	50
37) Ethyl Acetate	7.571	43	33319	9.236	ug/l	97
38) Carbon Tetrachloride	8.236	117	33654	6.695	ug/l #	17
41) Methacrylonitrile	7.847	41	634	0.338	ug/l #	18
42) 1,2-Dichloroethane	8.688	62	1632	0.354	ug/l #	72
43) Isopropyl Acetate	8.694	43	330067	55.464	ug/l #	72
45) 1,2-Dichloropropane	9.741	63	2123	0.630	ug/l #	43
48) Methyl methacrylate	9.665	41	5096	1.901	ug/l #	35
49) 1,4-Dioxane	9.741	88	209	3.172	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	19348	5.376	ug/l #	79
52) Toluene	10.635	92	3433	0.380	ug/l	97
53) t-1,3-Dichloropropene	10.735	75	1215	0.253	ug/l #	44
54) cis-1,3-Dichloropropene	10.365	75	71698	13.601	ug/l #	64
57) 1,3-Dichloropropane	11.206	76	9160	1.576	ug/l #	42
59) 2-Hexanone	11.177	43	159976	60.953	ug/l #	20
71) Bromoform	12.847	173	1672	0.621	ug/l #	1
74) N-amyl acetate	12.494	43	1258	0.301	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	103893	26.115	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	103893	94.000	ug/l #	12
95) Naphthalene	15.647	128	612	2.232	ug/l #	69

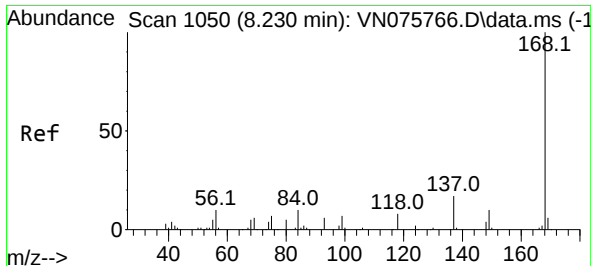
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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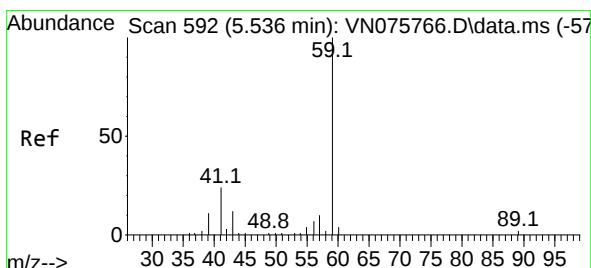
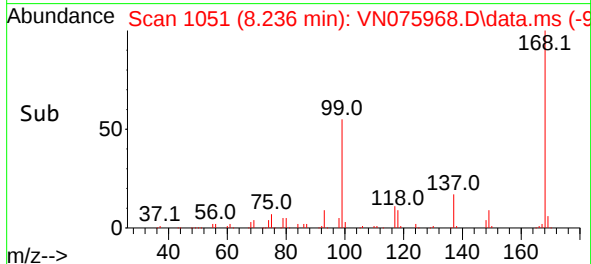
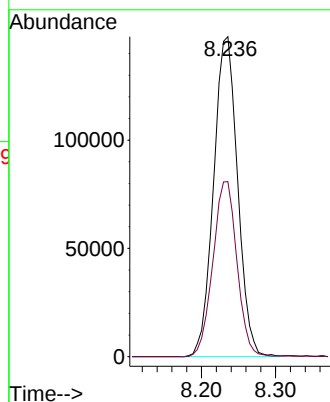
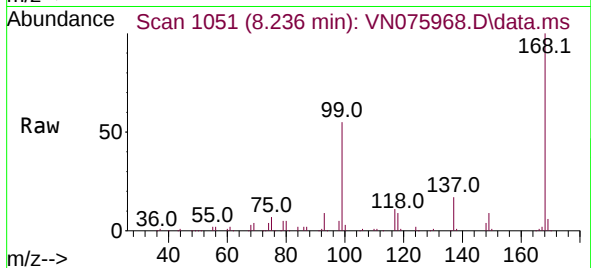




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

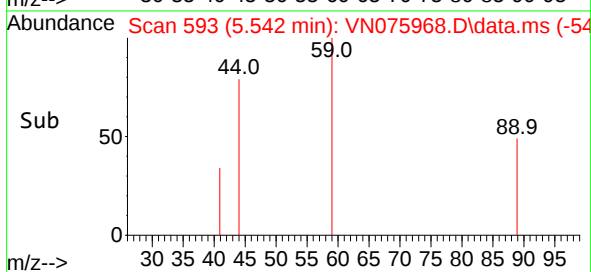
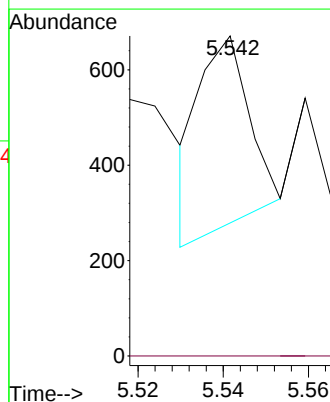
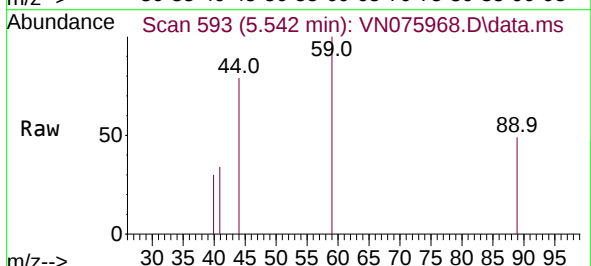
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

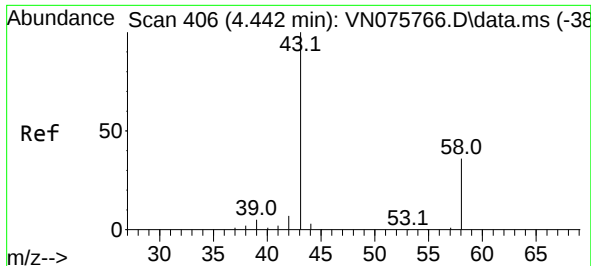
Tgt Ion:168 Resp: 332576
Ion Ratio Lower Upper
168 100
99 54.7 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.648 ug/l
RT: 5.542 min Scan# 593
Delta R.T. 0.006 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 59 Resp: 332
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

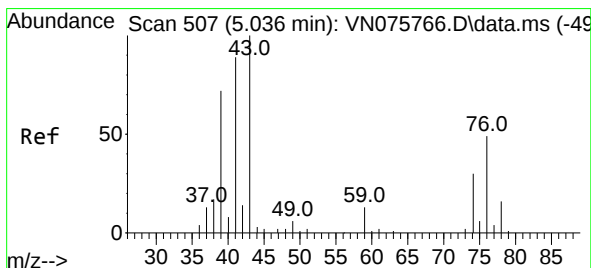
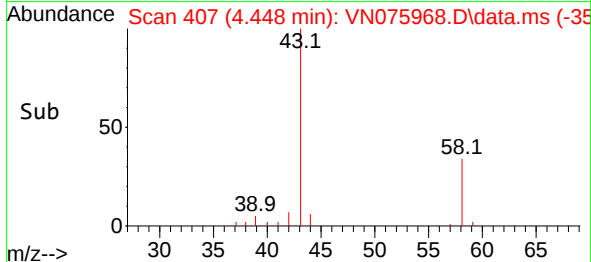
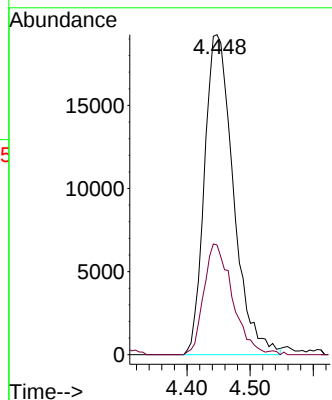
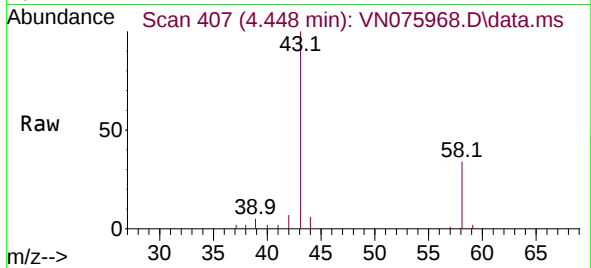




#16
Acetone
Concen: 49.187 ug/l
RT: 4.448 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

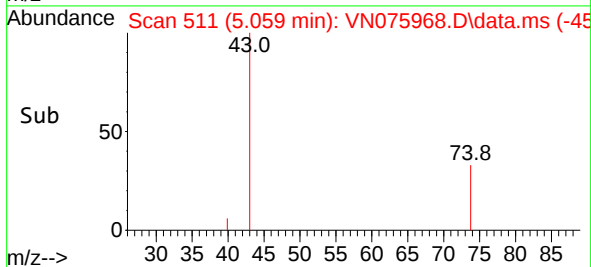
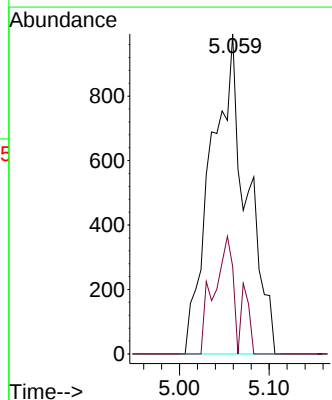
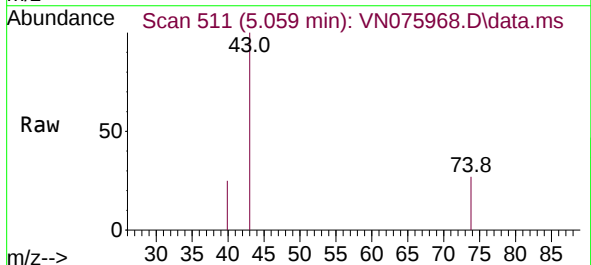
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

Tgt Ion: 43 Resp: 61348
Ion Ratio Lower Upper
43 100
58 34.3 28.6 43.0



#18
Methyl Acetate
Concen: 0.739 ug/l
RT: 5.059 min Scan# 511
Delta R.T. 0.024 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

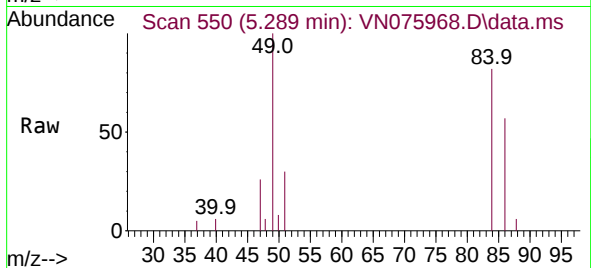
Tgt Ion: 43 Resp: 2724
Ion Ratio Lower Upper
43 100
74 19.6 23.6 35.4#



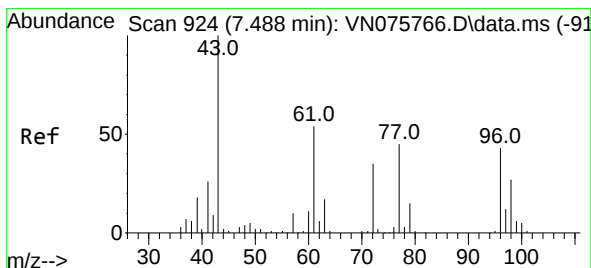
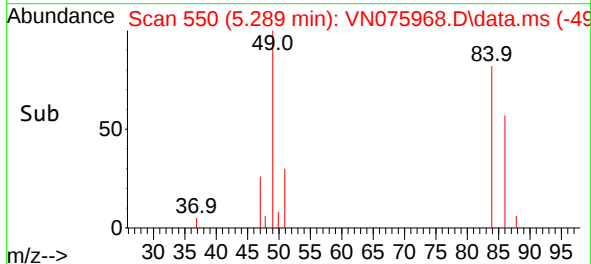
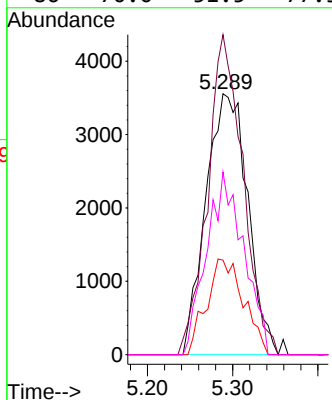


#20
Methylene Chloride
Concen: 3.026 ug/l
RT: 5.289 min Scan# 511
Delta R.T. -0.000 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

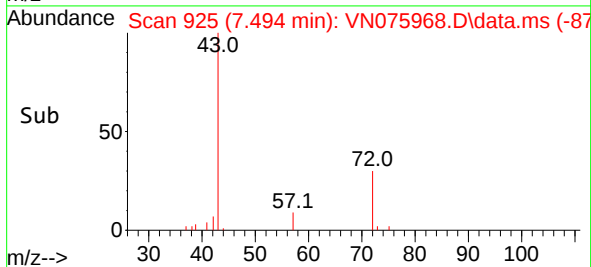
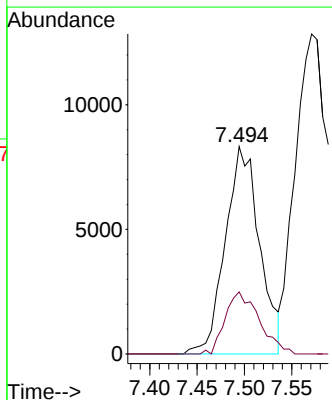
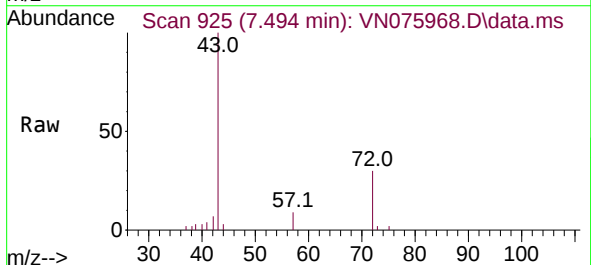


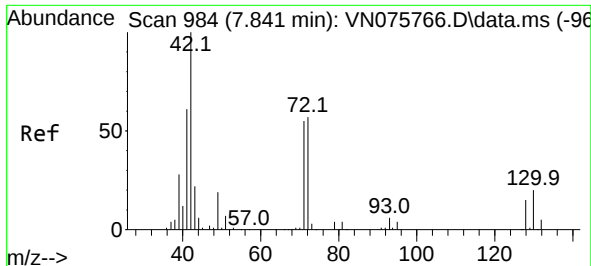
Tgt Ion:	84	Resp:	12105
Ion	Ratio	Lower	Upper
84	100		
49	122.6	81.8	122.6
51	36.3	26.7	40.1
86	70.0	51.5	77.3



#25
2-Butanone
Concen: 12.015 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion:	43	Resp:	20983
Ion	Ratio	Lower	Upper
43	100		
72	30.0	28.0	42.0





#29

Tetrahydrofuran

Concen: 2.048 ug/l

RT: 7.853 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN075968.D

Acq: 23 Dec 2022 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB149839ZHE#03

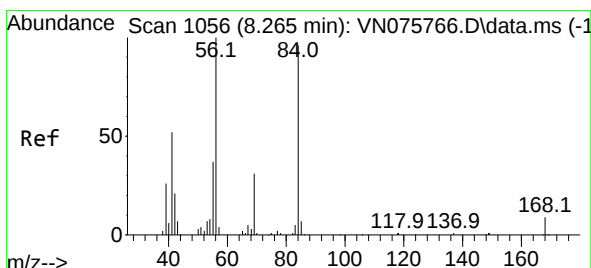
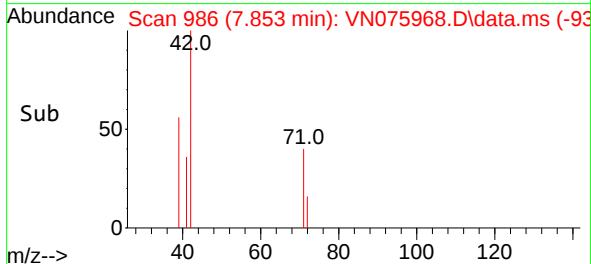
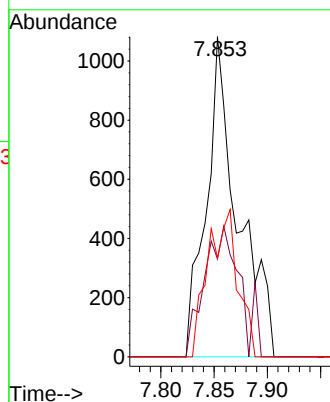
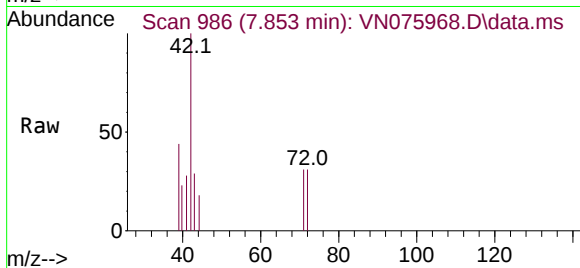
Tgt Ion: 42 Resp: 2241

Ion Ratio Lower Upper

42 100

72 45.8 44.5 66.7

71 43.0 41.0 61.6



#31

Cyclohexane

Concen: 1.225 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN075968.D

Acq: 23 Dec 2022 15:58

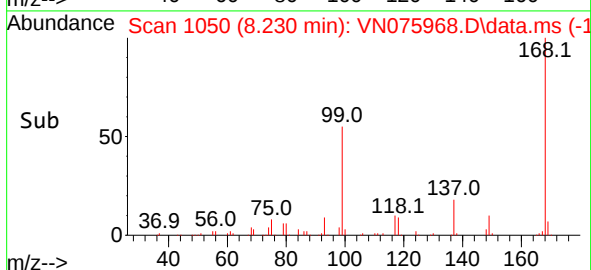
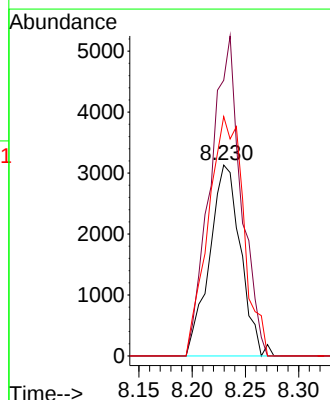
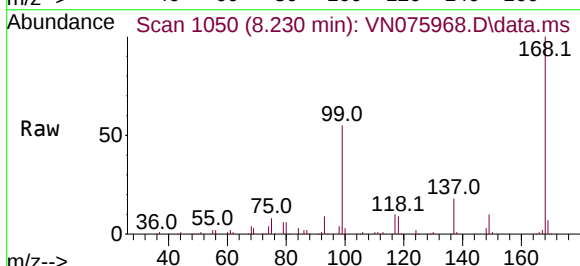
Tgt Ion: 56 Resp: 6350

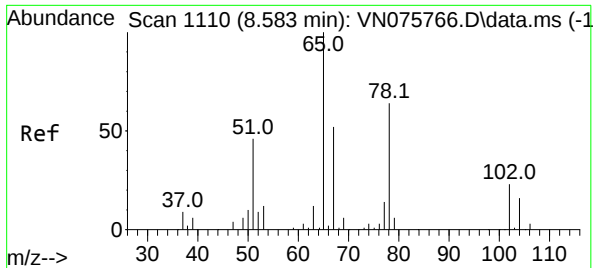
Ion Ratio Lower Upper

56 100

69 144.5 24.7 37.1#

84 125.4 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 48.920 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN075968.D

Acq: 23 Dec 2022 15:58

Instrument :

MSVOA_N

ClientSampleId :

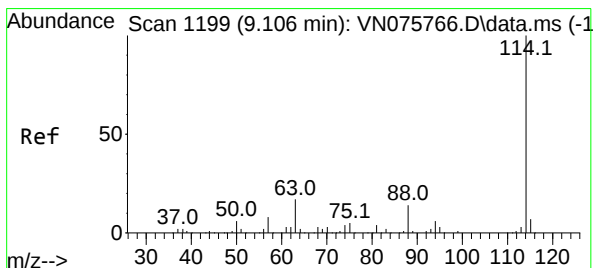
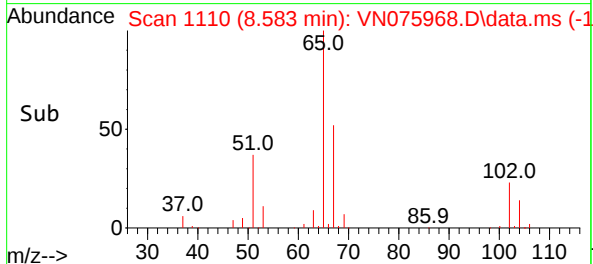
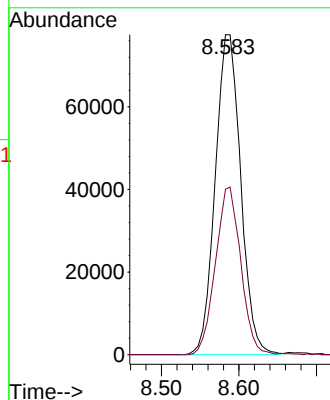
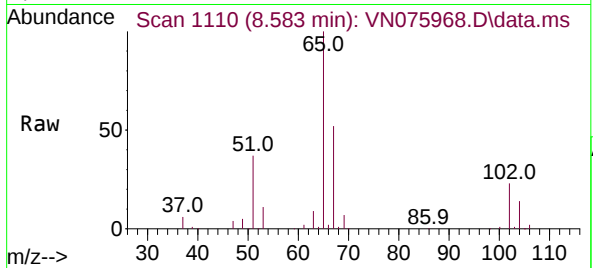
PB149839ZHE#03

Tgt Ion: 65 Resp: 177000

Ion Ratio Lower Upper

65 100

67 52.2 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: VN075968.D

Acq: 23 Dec 2022 15:58

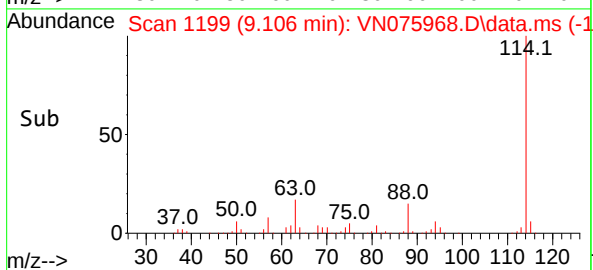
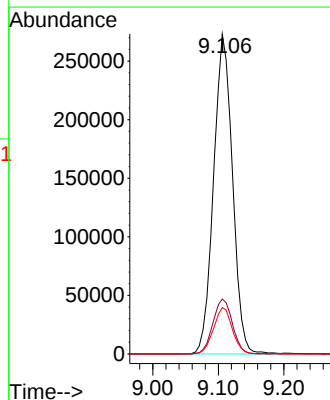
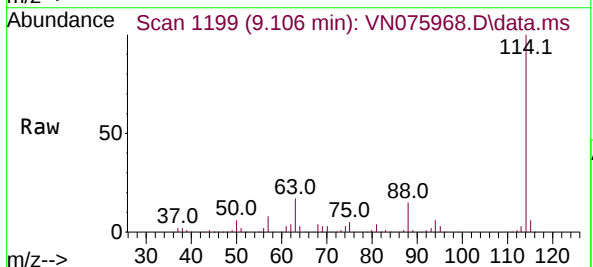
Tgt Ion: 114 Resp: 545945

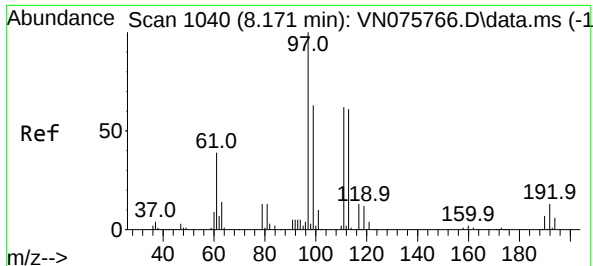
Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.4

88 14.5 0.0 28.8





#35

Dibromofluoromethane

Concen: 46.938 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VN075968.D

Acq: 23 Dec 2022 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB149839ZHE#03

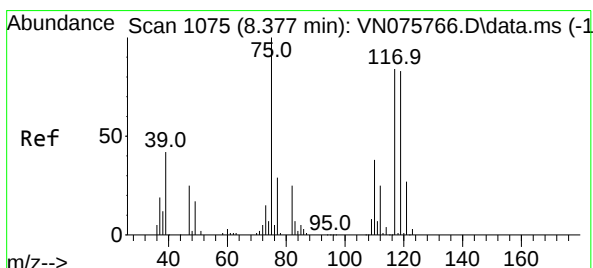
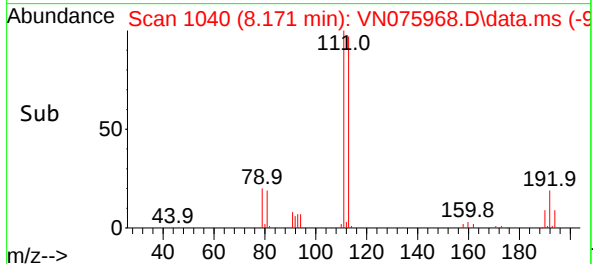
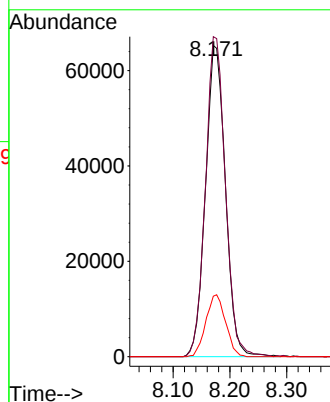
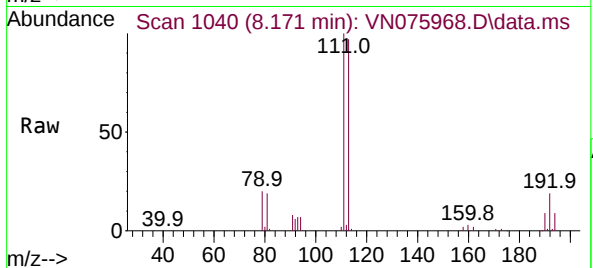
Tgt Ion:113 Resp: 158696

Ion Ratio Lower Upper

113 100

111 102.8 83.4 125.2

192 19.7 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.447 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075968.D

Acq: 23 Dec 2022 15:58

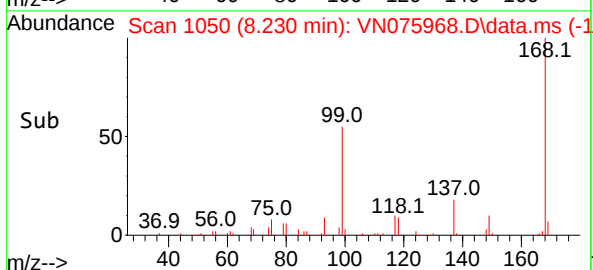
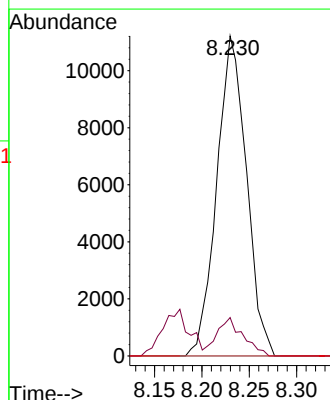
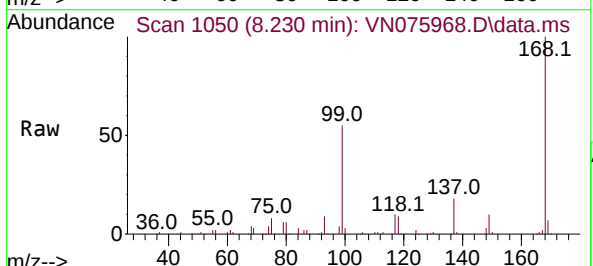
Tgt Ion: 75 Resp: 24465

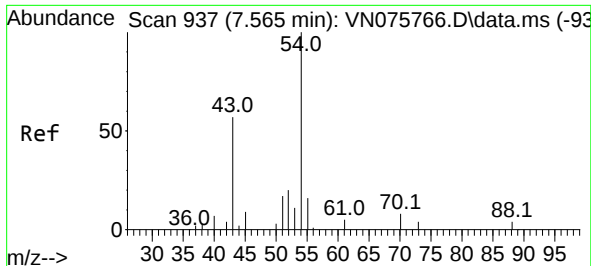
Ion Ratio Lower Upper

75 100

110 10.6 18.8 56.4#

77 0.0 24.1 36.1#

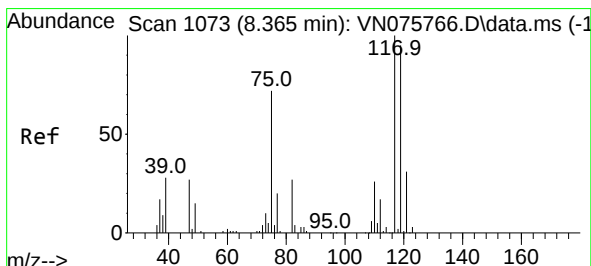
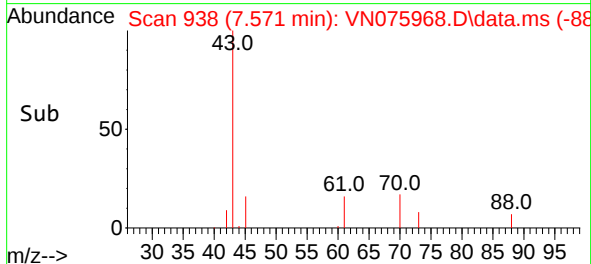
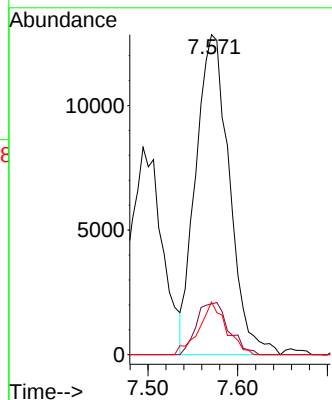
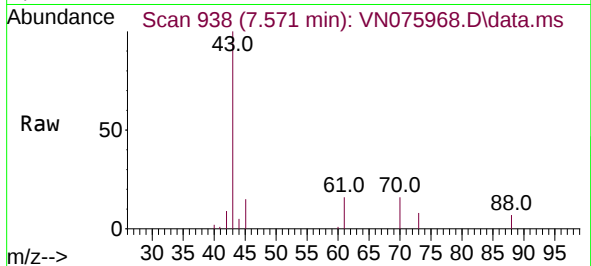




#37
Ethyl Acetate
Concen: 9.236 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

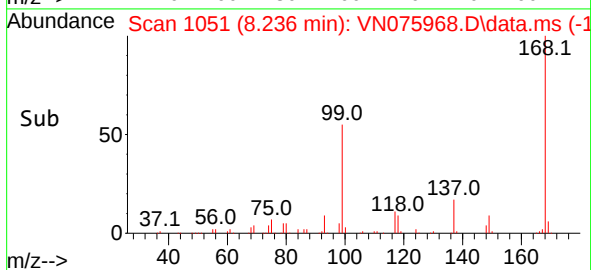
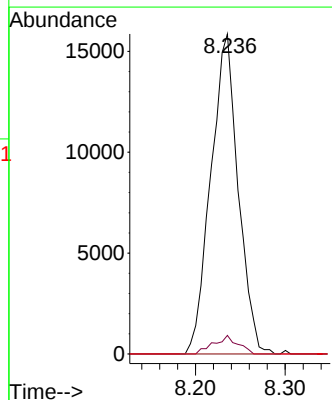
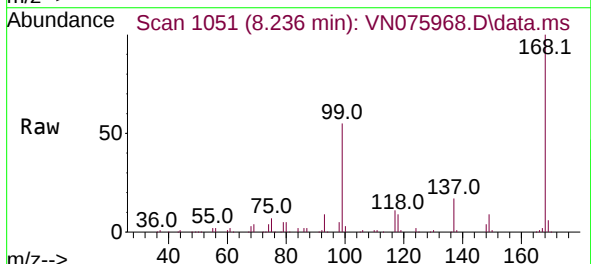
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

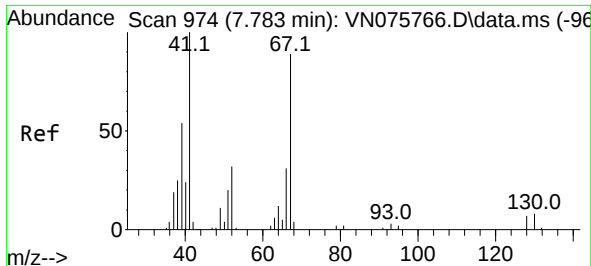
Tgt Ion: 43 Resp: 33319
Ion Ratio Lower Upper
43 100
61 15.7 13.0 19.4
70 13.4 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.695 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.129 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 117 Resp: 33654
Ion Ratio Lower Upper
117 100
119 5.8 76.1 114.1#
121 0.0 24.5 36.7#

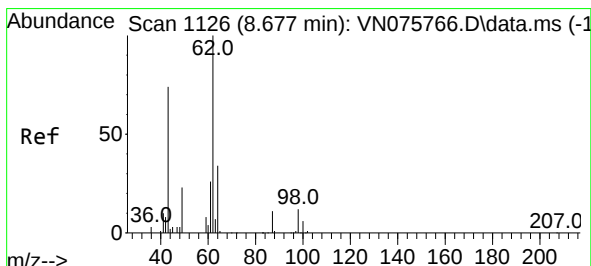
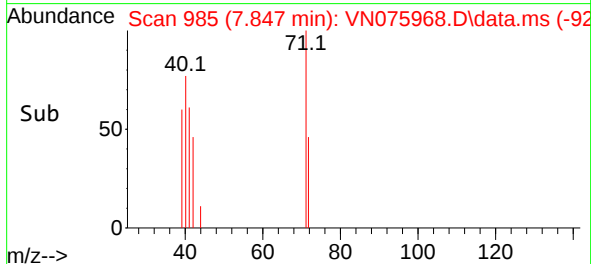
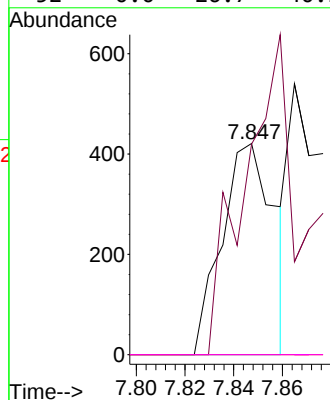
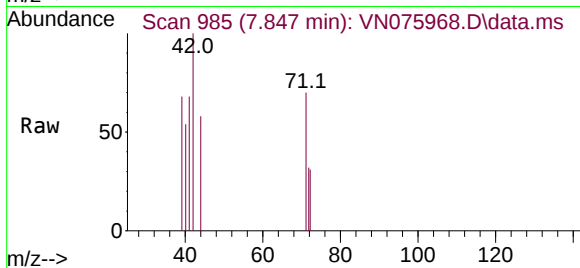




#41
Methacrylonitrile
Concen: 0.338 ug/l
RT: 7.847 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

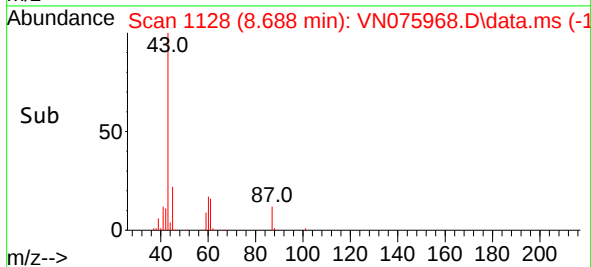
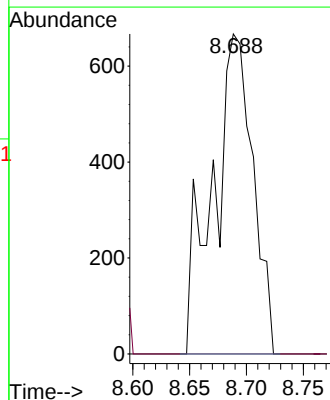
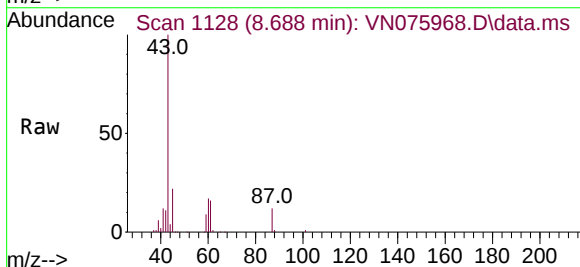
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

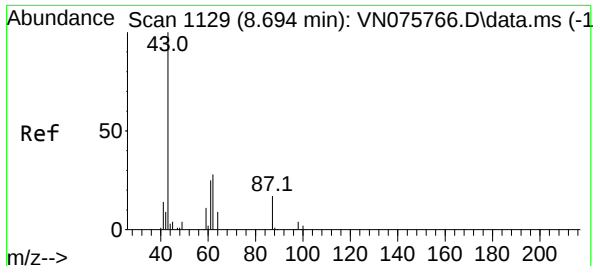
Tgt Ion: 41 Resp: 634
Ion Ratio Lower Upper
41 100
39 0.0 43.1 64.7#
67 0.0 70.7 106.1#
52 0.0 26.7 40.1#



#42
1,2-Dichloroethane
Concen: 0.354 ug/l
RT: 8.688 min Scan# 1128
Delta R.T. 0.012 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 62 Resp: 1632
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.8

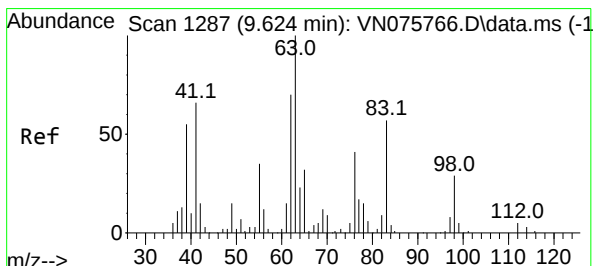
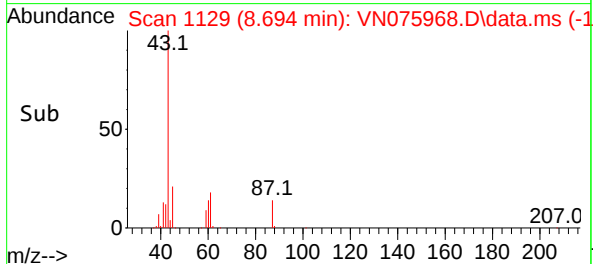
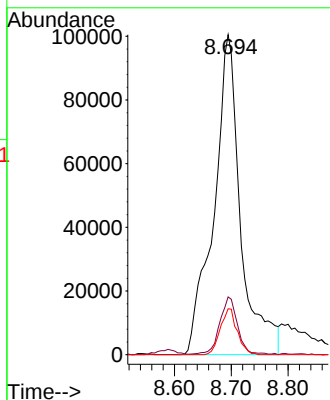
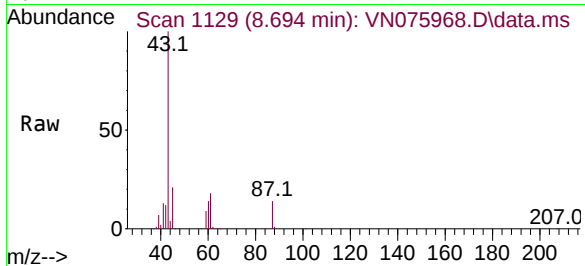




#43
Isopropyl Acetate
Concen: 55.464 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

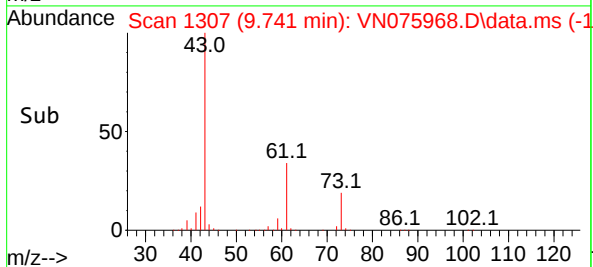
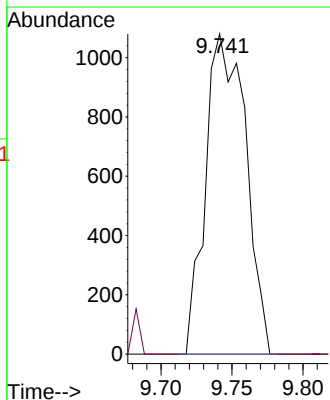
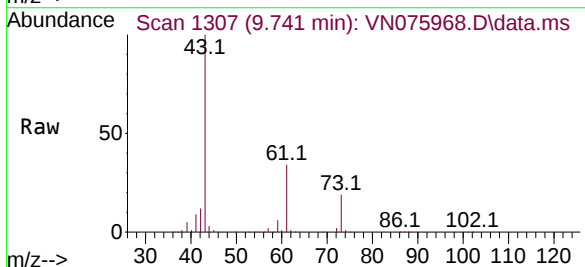
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

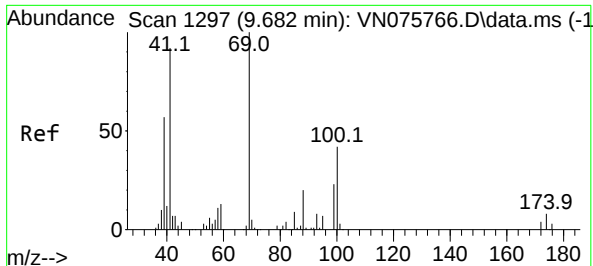
Tgt Ion: 43 Resp: 330067
Ion Ratio Lower Upper
43 100
61 11.7 24.2 36.4#
87 9.0 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.630 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.118 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 63 Resp: 2123
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#

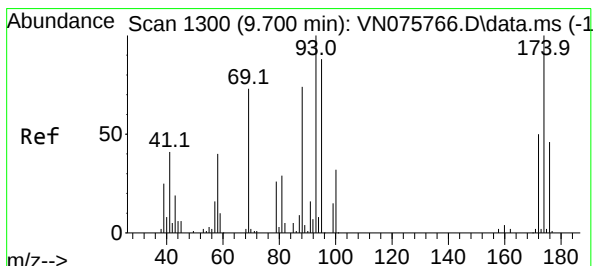
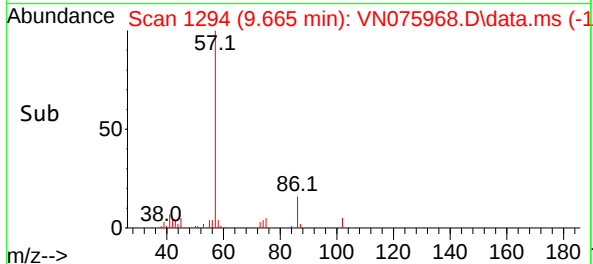
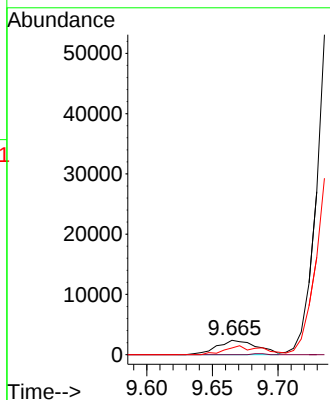
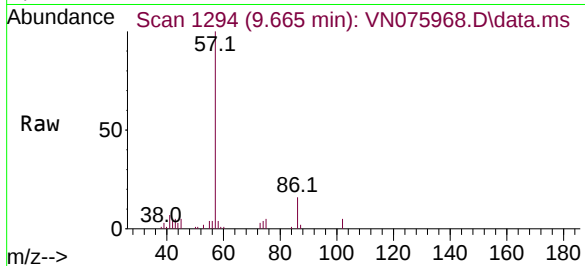




#48
Methyl methacrylate
Concen: 1.901 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

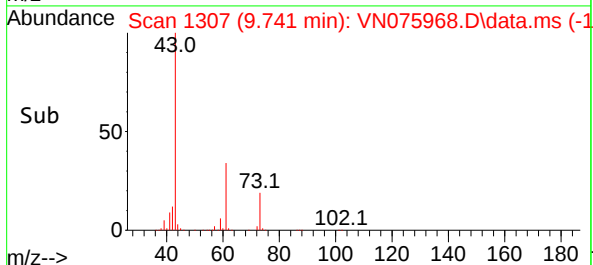
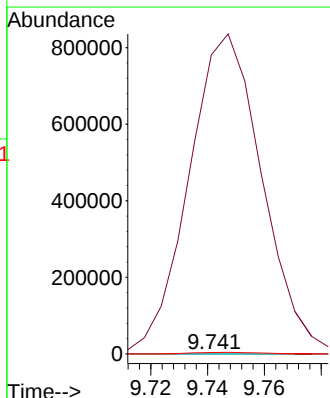
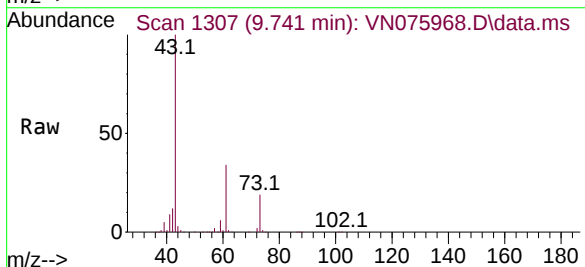
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

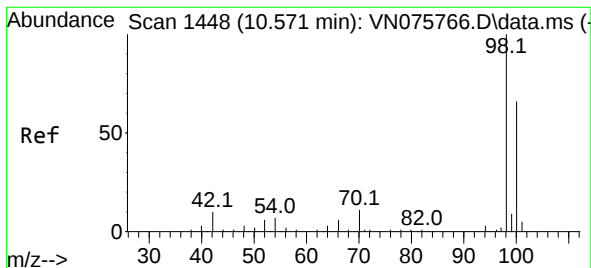
Tgt Ion: 41 Resp: 5096
Ion Ratio Lower Upper
41 100
69 2.3 81.9 122.9#
39 56.5 51.6 77.4



#49
1,4-Dioxane
Concen: 3.172 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.041 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 88 Resp: 209
Ion Ratio Lower Upper
88 100
43 724001.0 17.1 25.7#
58 3656.9 47.8 71.8#





#50

Toluene-d8

Concen: 50.317 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN075968.D

Acq: 23 Dec 2022 15:58

Instrument :

MSVOA_N

ClientSampleId :

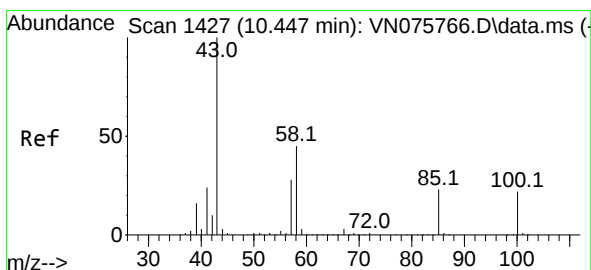
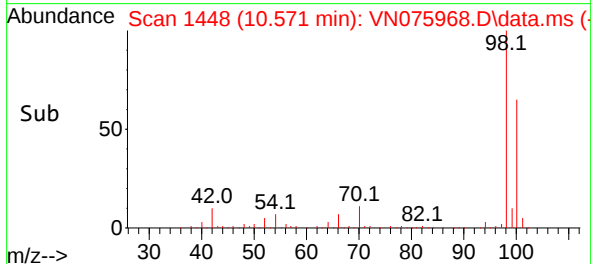
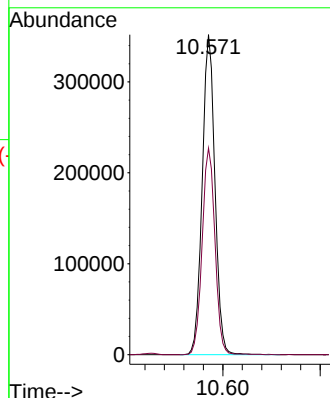
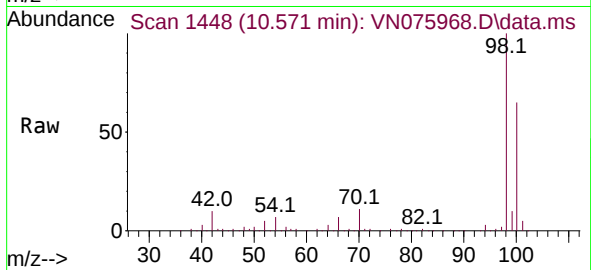
PB149839ZHE#03

Tgt Ion: 98 Resp: 636063

Ion Ratio Lower Upper

98 100

100 65.0 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 5.376 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN075968.D

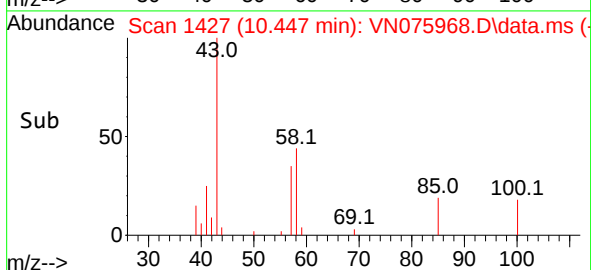
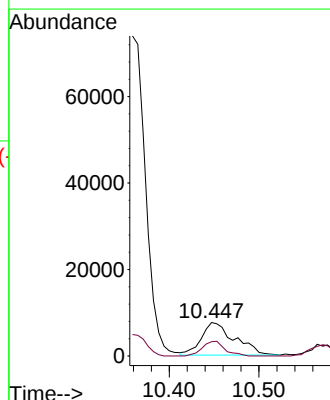
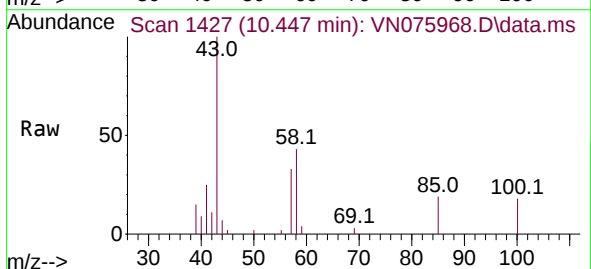
Acq: 23 Dec 2022 15:58

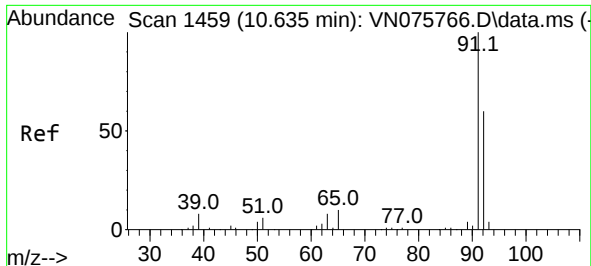
Tgt Ion: 43 Resp: 19348

Ion Ratio Lower Upper

43 100

58 30.7 35.5 53.3#

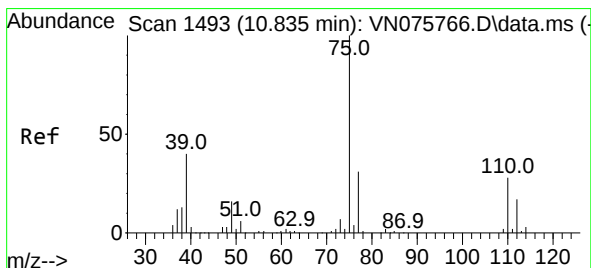
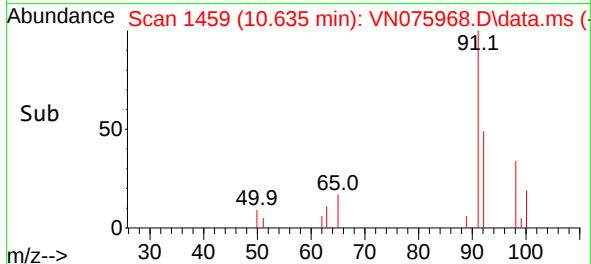
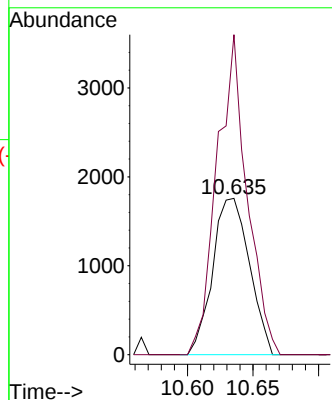
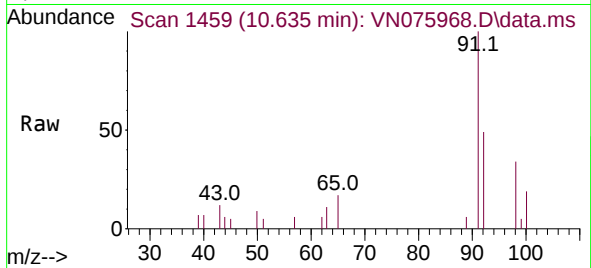




#52
Toluene
Concen: 0.380 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

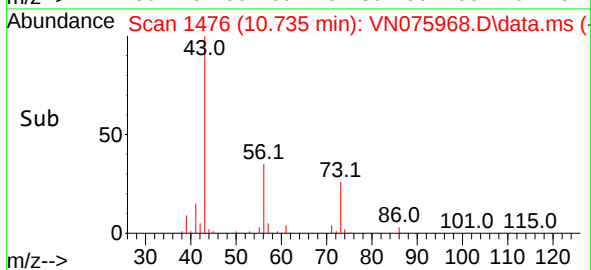
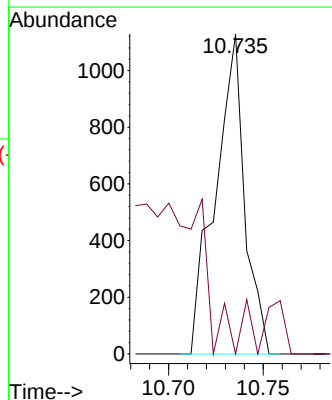
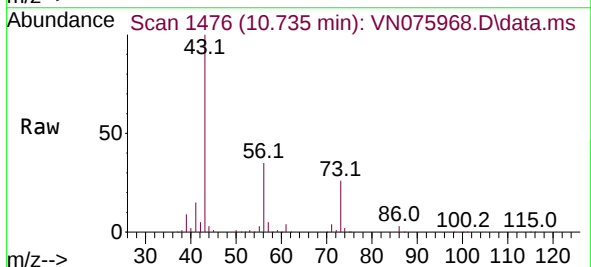
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

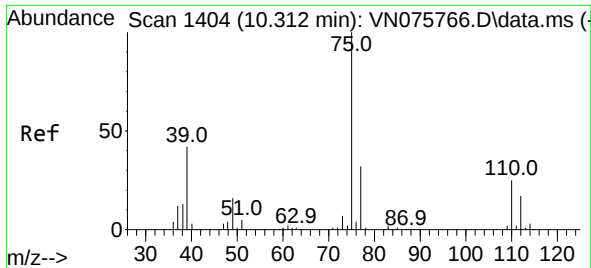
Tgt Ion: 92 Resp: 3433
Ion Ratio Lower Upper
92 100
91 167.9 137.3 205.9



#53
t-1,3-Dichloropropene
Concen: 0.253 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 75 Resp: 1215
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#

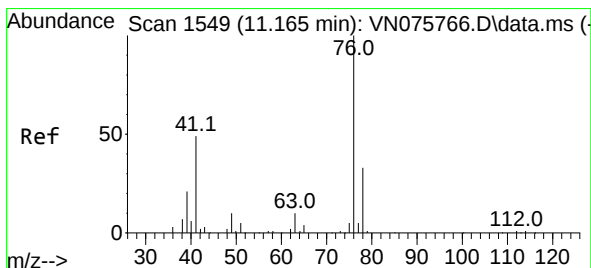
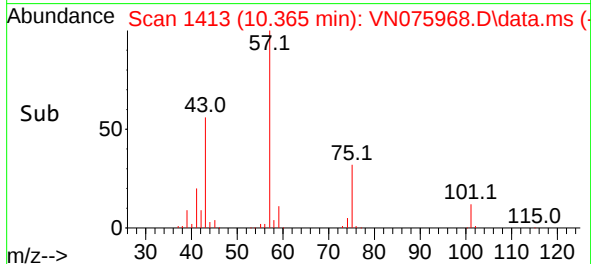
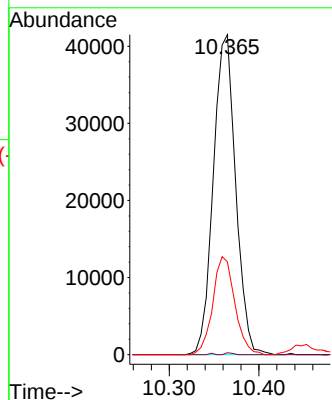
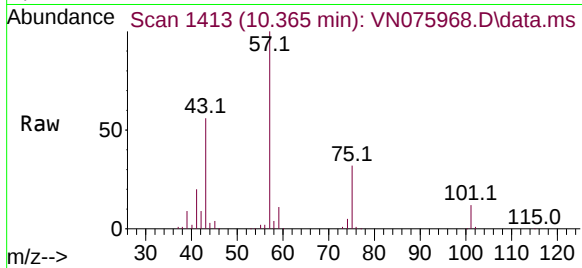




#54
 cis-1,3-Dichloropropene
 Concen: 13.601 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.053 min
 Lab File: VN075968.D
 Acq: 23 Dec 2022 15:58

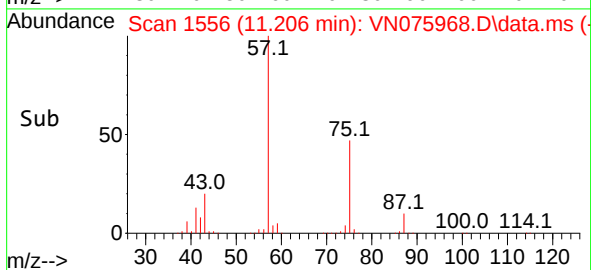
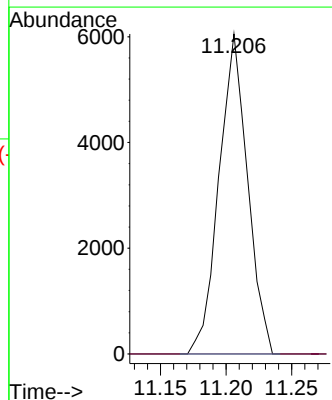
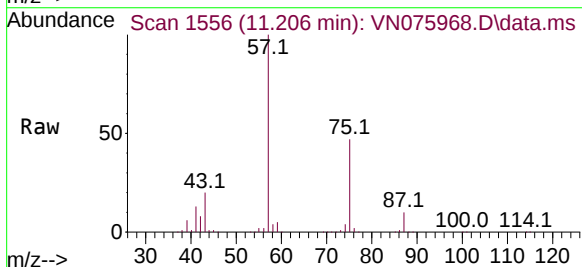
Instrument :
 MSVOA_N
 ClientSampleId :
 PB149839ZHE#03

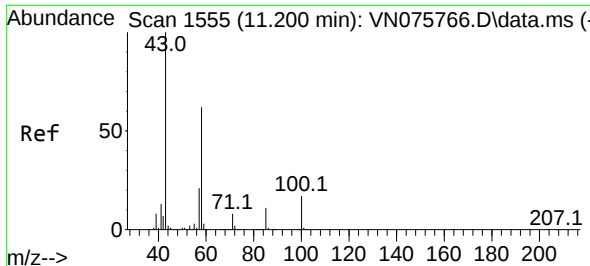
Tgt Ion: 75 Resp: 71698
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.8#
 39 29.0 33.4 50.2#



#57
 1,3-Dichloropropane
 Concen: 1.576 ug/l
 RT: 11.206 min Scan# 1556
 Delta R.T. 0.041 min
 Lab File: VN075968.D
 Acq: 23 Dec 2022 15:58

Tgt Ion: 76 Resp: 9160
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

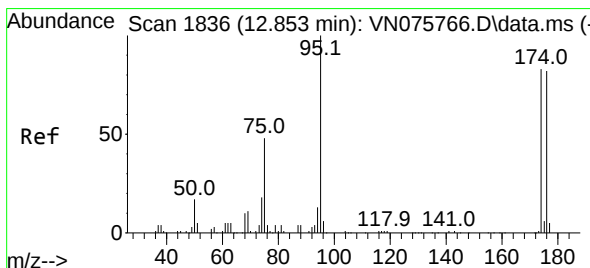
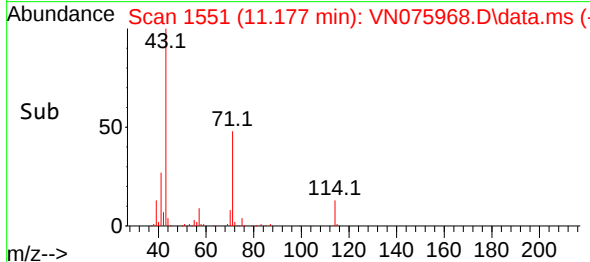
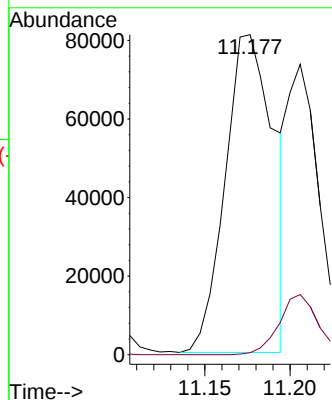
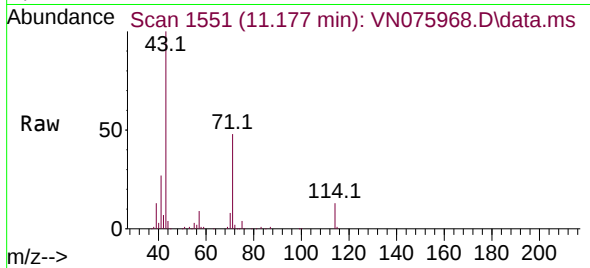




#59
2-Hexanone
Concen: 60.953 ug/l
RT: 11.177 min Scan# 1155
Delta R.T. -0.023 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

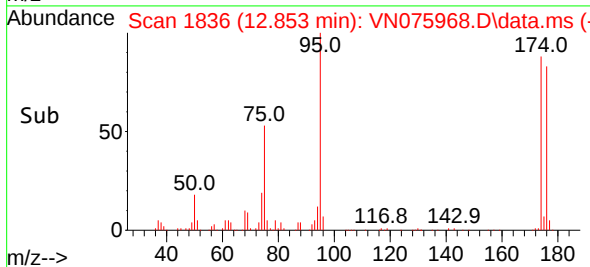
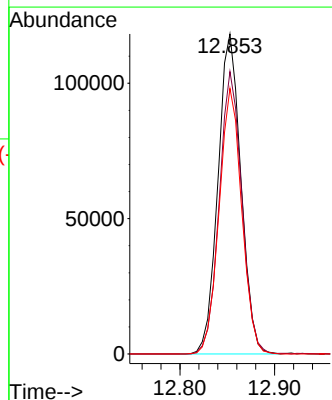
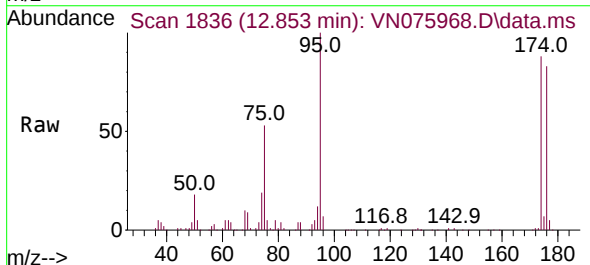
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

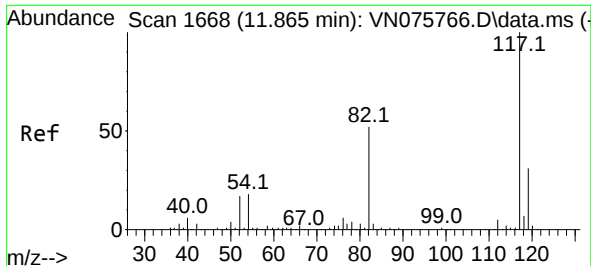
Tgt Ion: 43 Resp: 159976
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 47.510 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 95 Resp: 198918
Ion Ratio Lower Upper
95 100
174 86.8 0.0 171.6
176 81.8 0.0 169.2

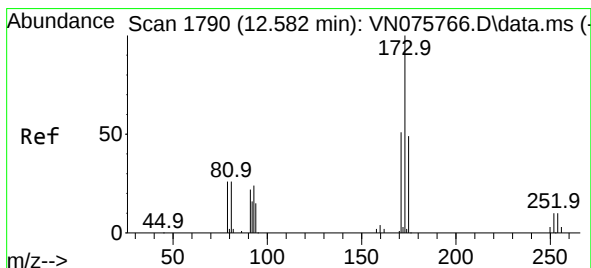
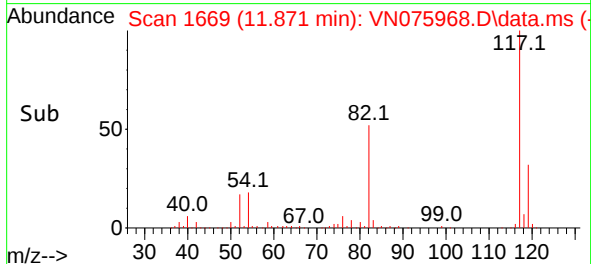
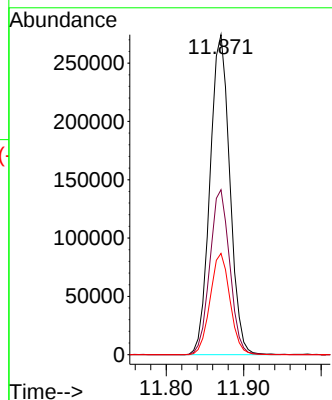
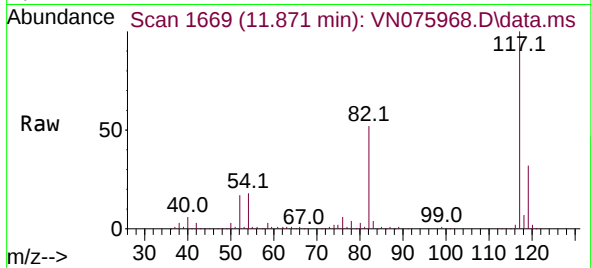




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

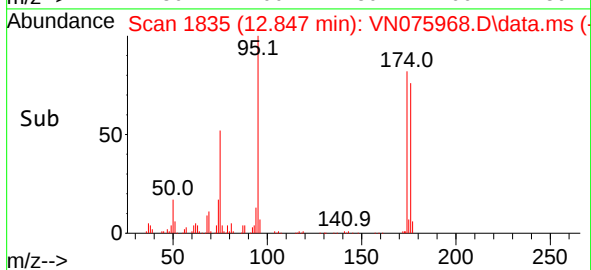
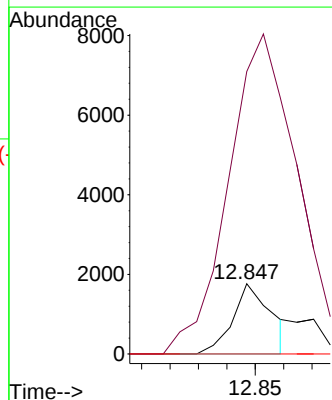
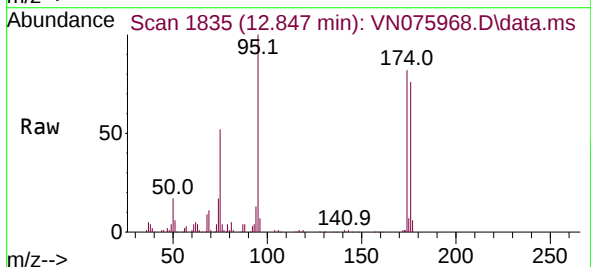
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

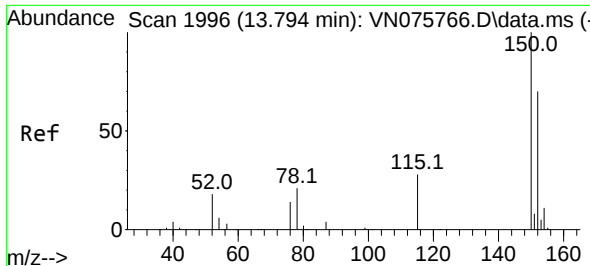
Tgt Ion:117 Resp: 486983
Ion Ratio Lower Upper
117 100
82 51.5 41.3 61.9
119 31.6 24.6 37.0



#71
Bromoform
Concen: 0.621 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion:173 Resp: 1672
Ion Ratio Lower Upper
173 100
175 625.8 24.3 72.8#
254 0.0 0.0 0.0

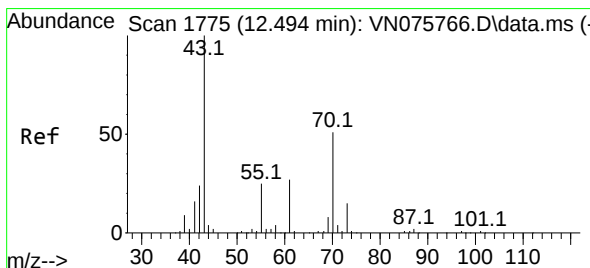
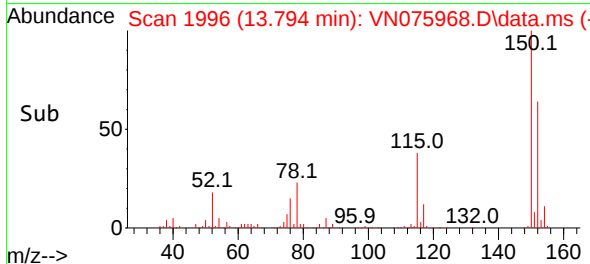
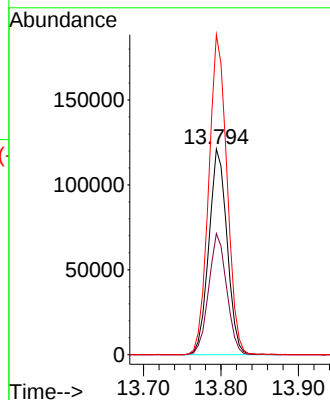
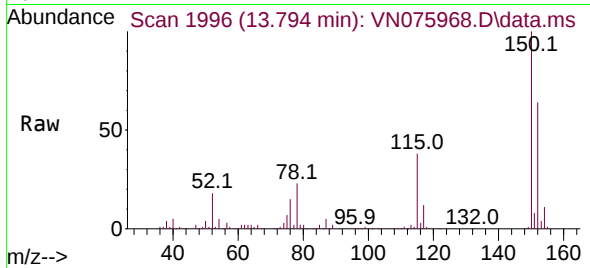




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

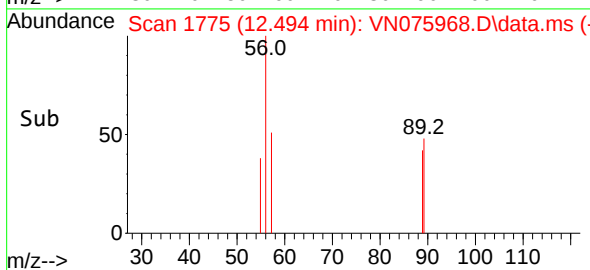
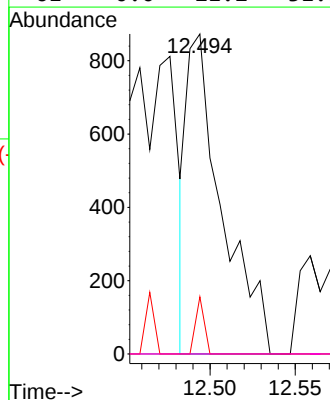
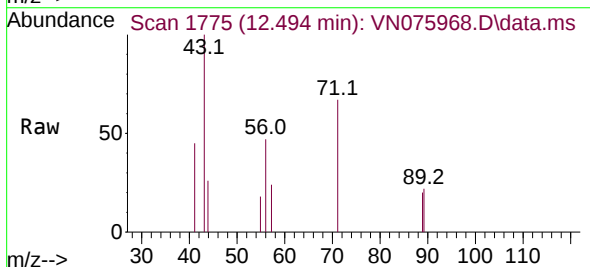
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

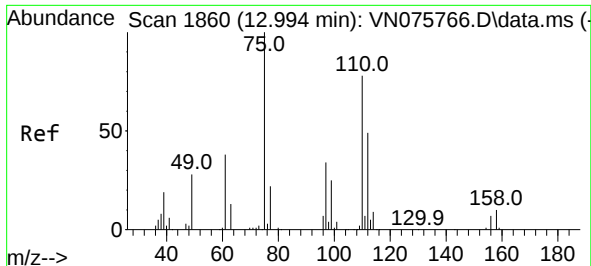
Tgt Ion:152 Resp: 197362
Ion Ratio Lower Upper
152 100
115 58.3 29.1 87.4
150 156.2 0.0 347.0



#74
N-ethyl acetate
Concen: 0.301 ug/l
RT: 12.494 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 43 Resp: 1258
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.0#
55 0.0 21.3 31.9#
61 0.0 21.2 31.8#

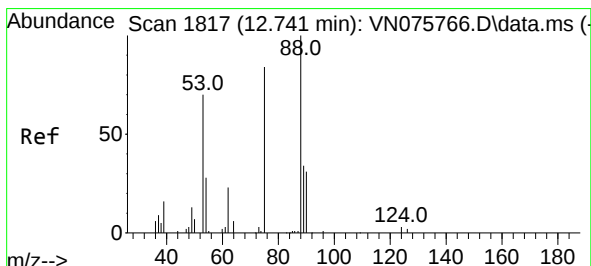
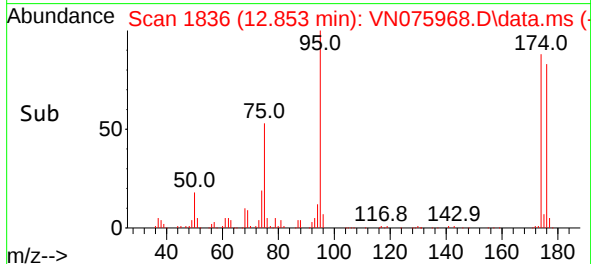
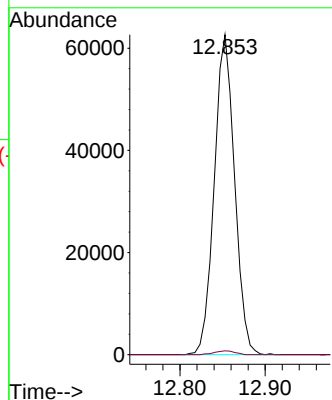
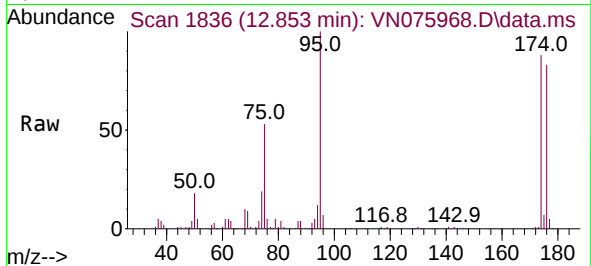




#76
1,2,3-Trichloropropane
Concen: 26.115 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

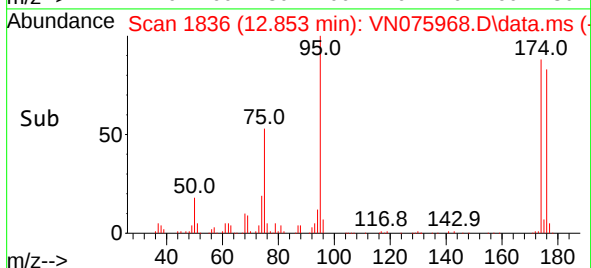
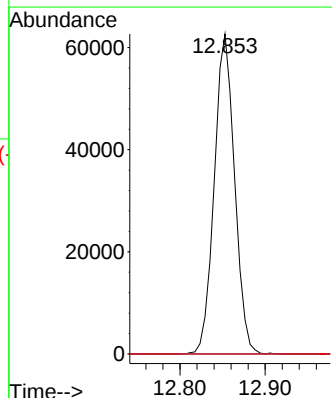
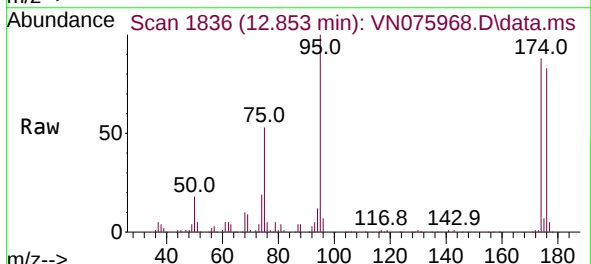
Instrument :
MSVOA_N
ClientSampleId :
PB149839ZHE#03

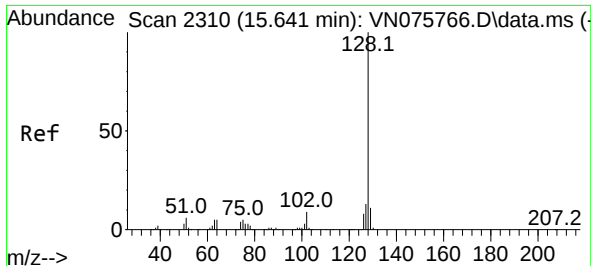
Tgt Ion: 75 Resp: 103893
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.000 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075968.D
Acq: 23 Dec 2022 15:58

Tgt Ion: 75 Resp: 103893
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#





#95

Naphthalene

Concen: 2.232 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN075968.D

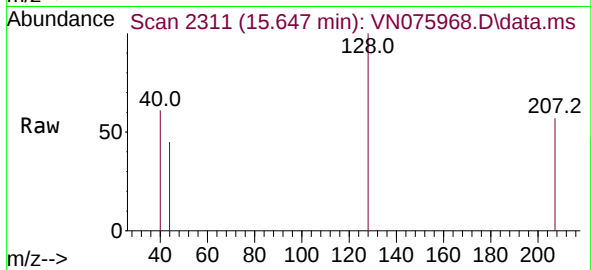
Acq: 23 Dec 2022 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB149839ZHE#03



Tgt Ion:128 Resp: 612

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

