

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120722\
 Data File : VN075615.D
 Acq On : 07 Dec 2022 18:43
 Operator : JC\MD
 Sample : N5883-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-18

Quant Time: Dec 08 00:23:10 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)

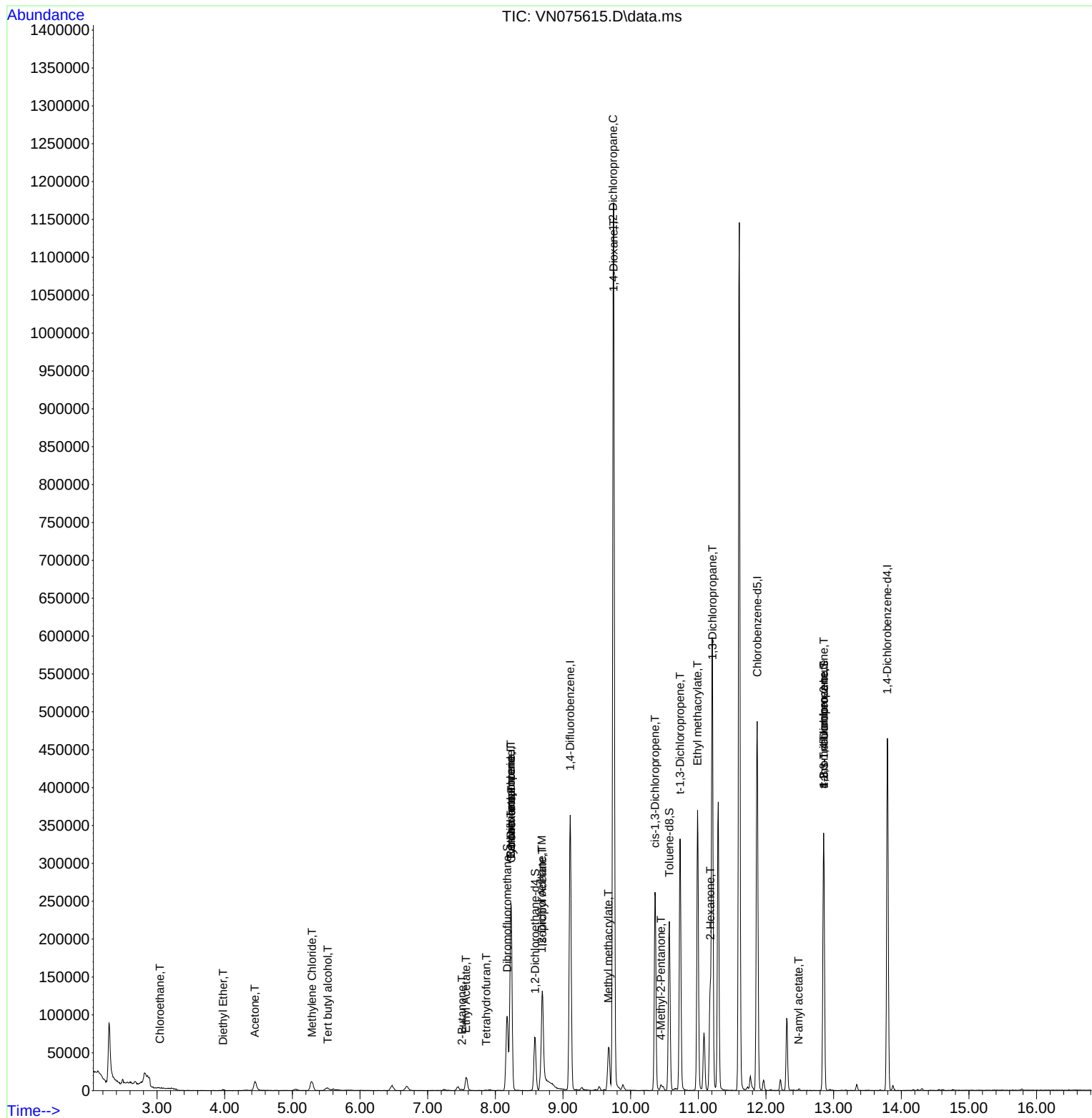
Internal Standards						
1) Pentafluorobenzene	8.230	168	199522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	334540	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	300073	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136975	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	56991	53.213	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.420%			
35) Dibromofluoromethane	8.177	113	72380	55.076	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.160%			
50) Toluene-d8	10.571	98	159631	53.931	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.860%			
62) 4-Bromofluorobenzene	12.853	95	115154	52.709	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.420%			
Target Compounds					Qvalue	
6) Chloroethane	3.042	64	824	0.455	ug/l #	45
8) Diethyl Ether	3.977	74	744	0.621	ug/l	95
11) Tert butyl alcohol	5.524	59	2898	6.446	ug/l #	72
16) Acetone	4.447	43	22760	22.783	ug/l #	83
20) Methylene Chloride	5.289	84	10531	4.023	ug/l	86
25) 2-Butanone	7.506	43	2109	1.512	ug/l	91
29) Tetrahydrofuran	7.865	42	398	0.469	ug/l #	38
31) Cyclohexane	8.235	56	3529	1.037	ug/l #	9
36) 1,1-Dichloropropene	8.230	75	13177	4.598	ug/l #	52
37) Ethyl Acetate	7.565	43	25435	9.856	ug/l	98
38) Carbon Tetrachloride	8.230	117	18942	6.017	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	686	0.233	ug/l #	75
43) Isopropyl Acetate	8.694	43	170068	41.058	ug/l #	82
45) 1,2-Dichloropropane	9.741	63	1650	0.789	ug/l #	42
48) Methyl methacrylate	9.671	41	3179	1.660	ug/l #	34
49) 1,4-Dioxane	9.747	88	81	1.489	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	4686	1.776	ug/l	98
53) t-1,3-Dichloropropene	10.729	75	929	0.302	ug/l #	78
54) cis-1,3-Dichloropropene	10.359	75	53853	16.125	ug/l #	60
56) Ethyl methacrylate	10.988	69	1043	0.335	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	7005	1.865	ug/l #	42
59) 2-Hexanone	11.176	43	111464	56.265	ug/l #	21
74) N-amyl acetate	12.482	43	920	0.299	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	57664	22.265	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	57664	65.879	ug/l #	10

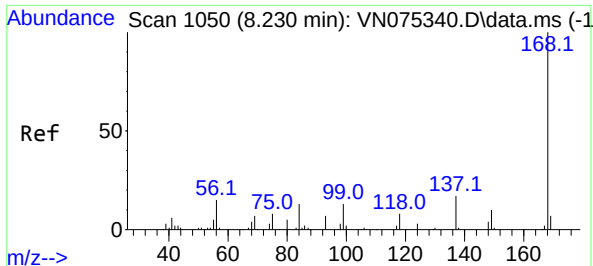
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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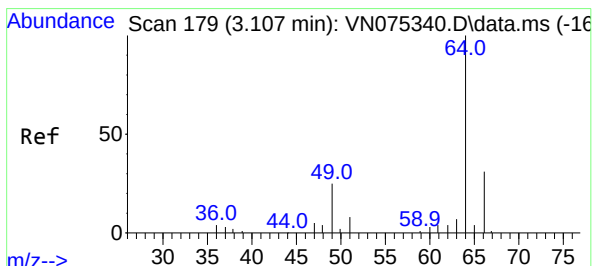
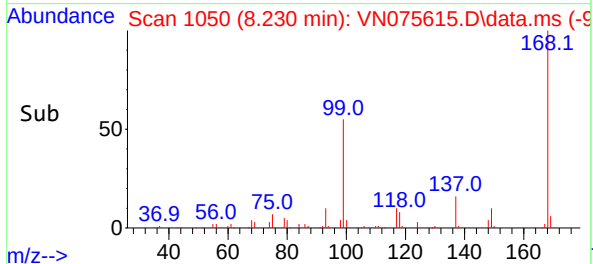
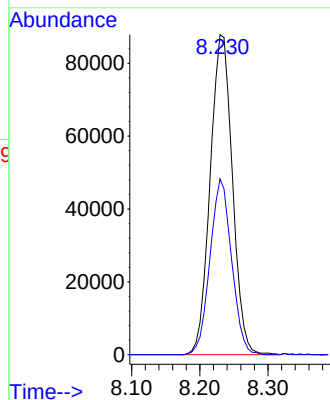
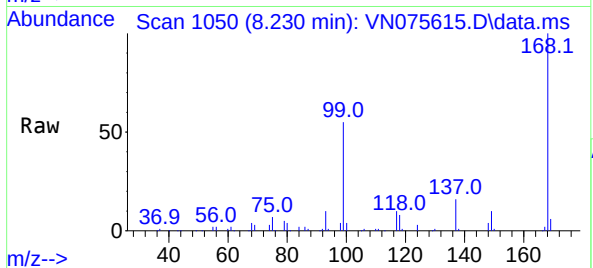




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

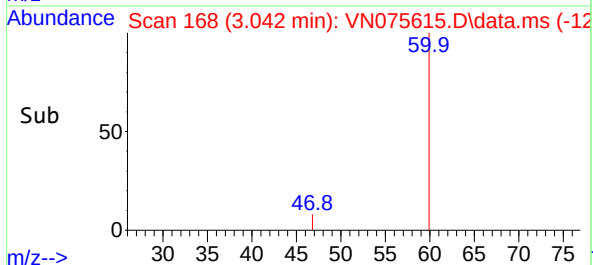
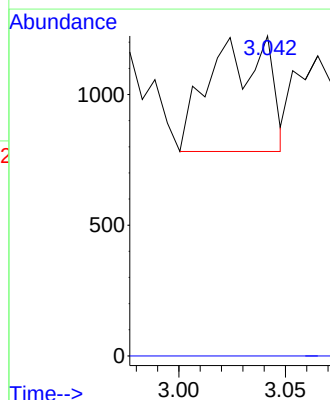
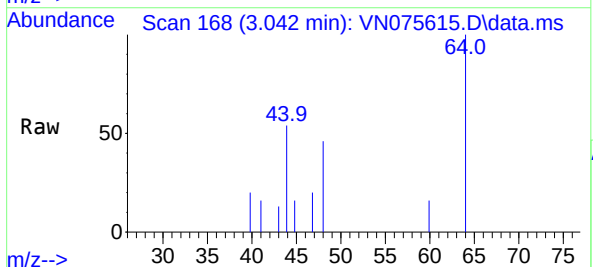
Instrument :
MSVOA_N
ClientSampleId :
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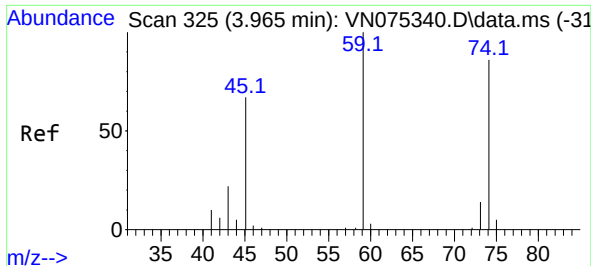
Tgt Ion:168 Resp: 199522
Ion Ratio Lower Upper
168 100
99 54.9 51.6 77.4



#6
Chloroethane
Concen: 0.455 ug/l
RT: 3.042 min Scan# 168
Delta R.T. -0.065 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 64 Resp: 824
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#

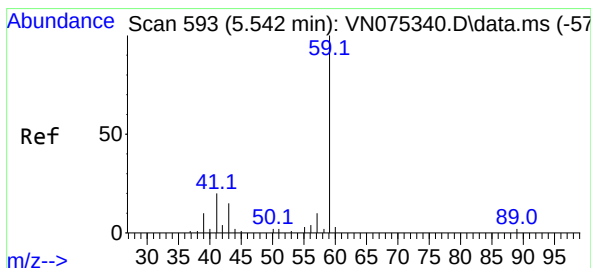
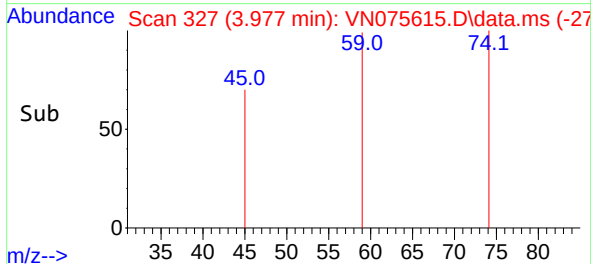
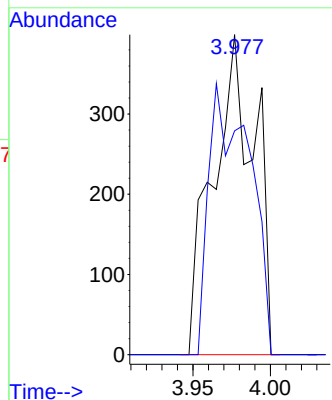
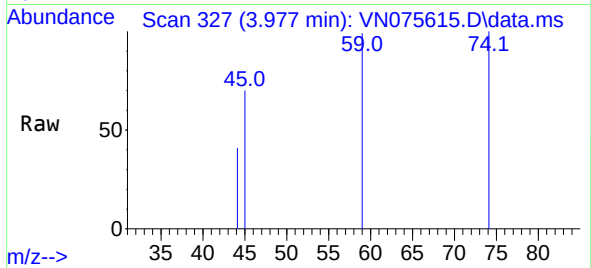




#8
Diethyl Ether
Concen: 0.621 ug/l
RT: 3.977 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

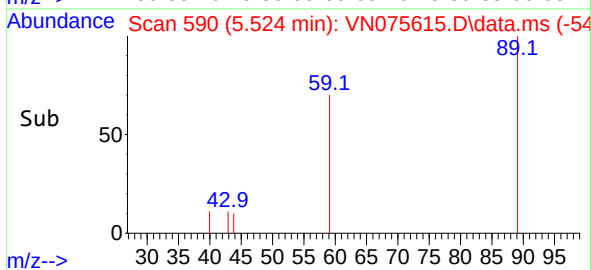
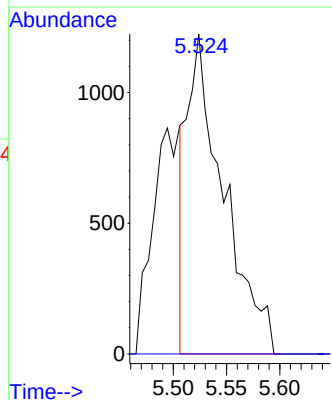
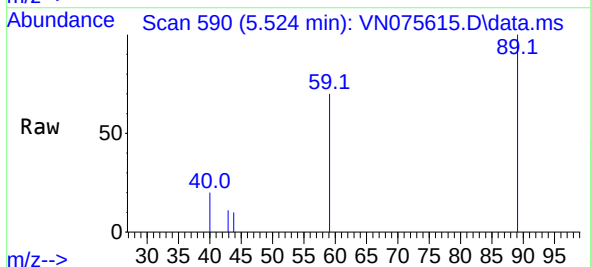
Instrument :
MSVOA_N
ClientSampleId :
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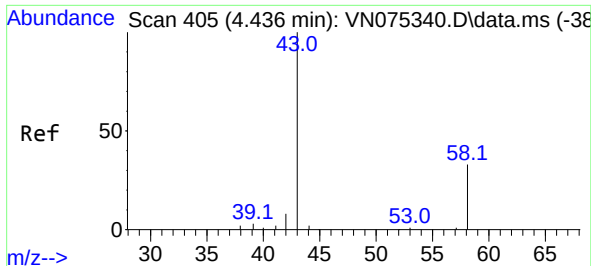
Tgt Ion: 74 Resp: 744
Ion Ratio Lower Upper
74 100
45 83.3 39.3 117.9



#11
Tert butyl alcohol
Concen: 6.446 ug/l
RT: 5.524 min Scan# 590
Delta R.T. -0.018 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 59 Resp: 2898
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

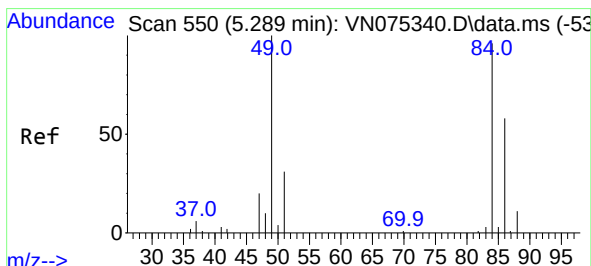
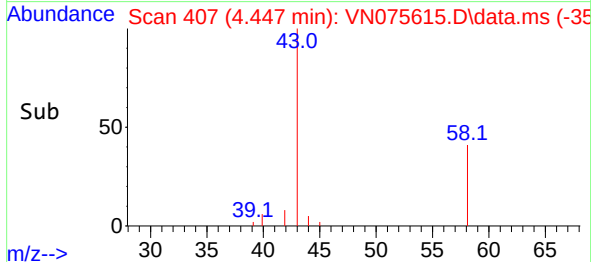
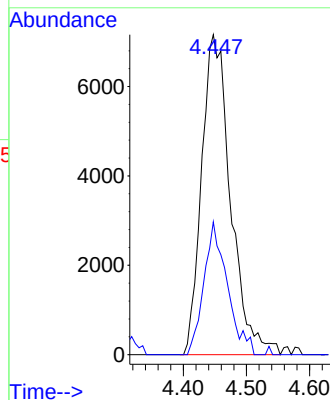
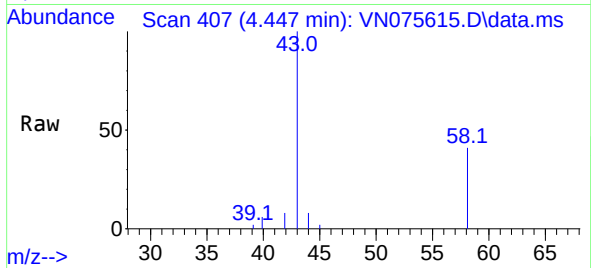




#16
Acetone
Concen: 22.783 ug/l
RT: 4.447 min Scan# 405
Delta R.T. 0.011 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

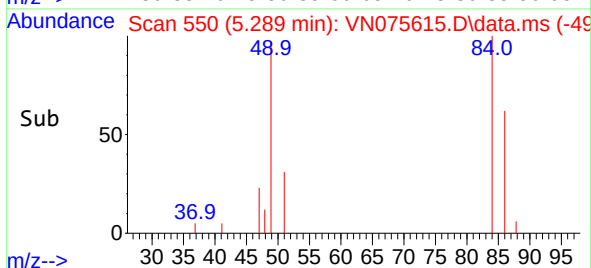
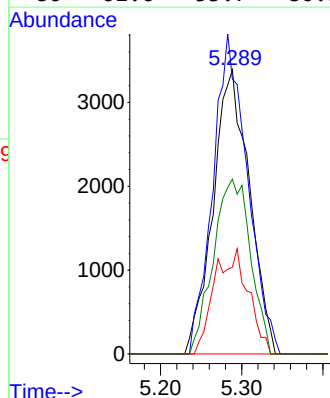
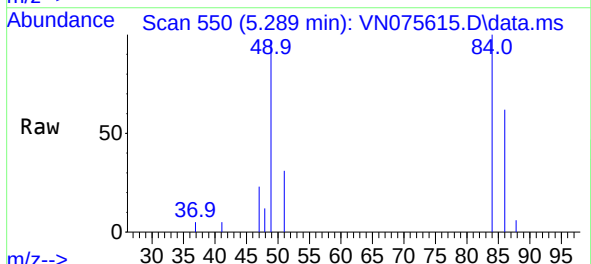
Instrument :
MSVOA_N
ClientSampleId :
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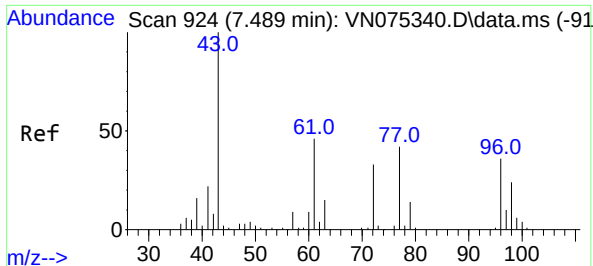
Tgt Ion: 43 Resp: 22760
Ion Ratio Lower Upper
43 100
58 41.5 25.5 38.3#



#20
Methylene Chloride
Concen: 4.023 ug/l
RT: 5.289 min Scan# 550
Delta R.T. -0.000 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 84 Resp: 10531
Ion Ratio Lower Upper
84 100
49 96.8 94.9 142.3
51 30.5 26.8 40.2
86 61.6 53.7 80.5

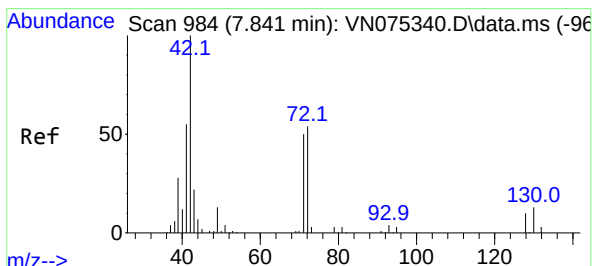
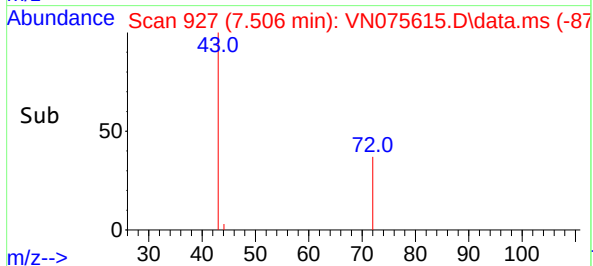
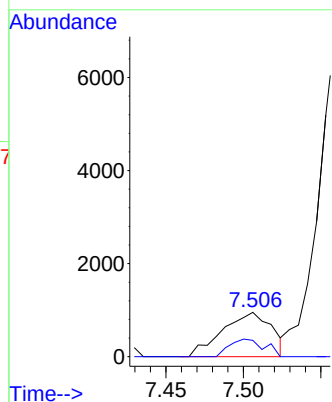
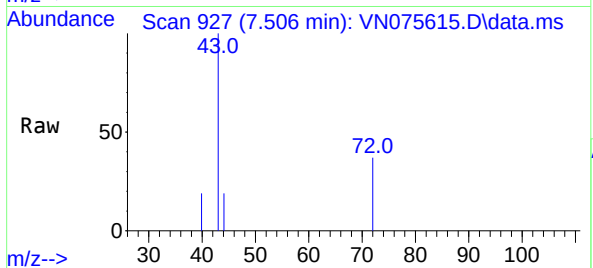




#25
2-Butanone
Concen: 1.512 ug/l
RT: 7.506 min Scan# 91
Delta R.T. 0.017 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

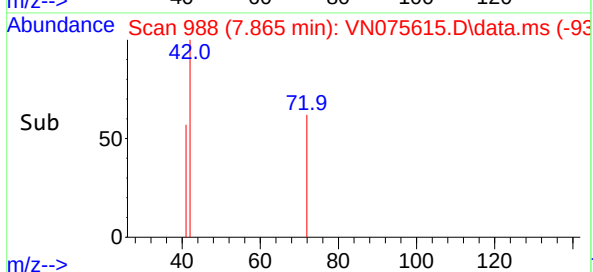
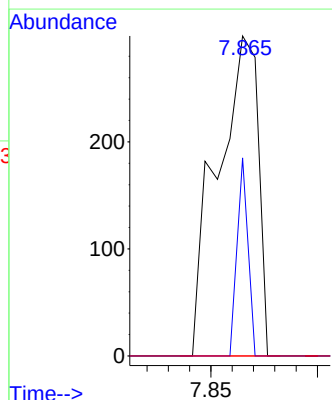
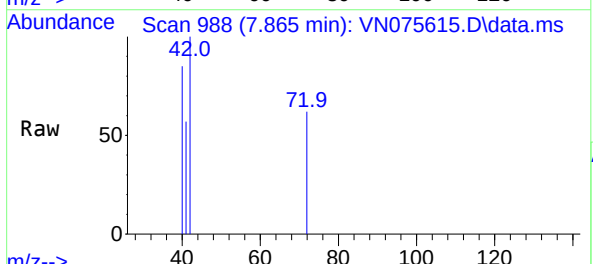
Instrument :
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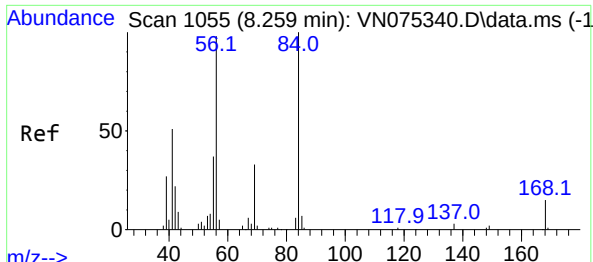
Tgt Ion: 43 Resp: 2109
Ion Ratio Lower Upper
43 100
72 36.7 25.5 38.3



#29
Tetrahydrofuran
Concen: 0.469 ug/l
RT: 7.865 min Scan# 988
Delta R.T. 0.024 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

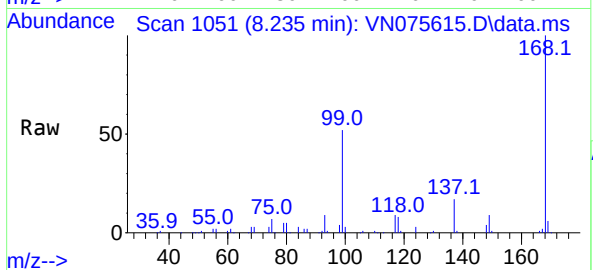
Tgt Ion: 42 Resp: 398
Ion Ratio Lower Upper
42 100
72 16.3 43.0 64.6#
71 0.0 39.9 59.9#



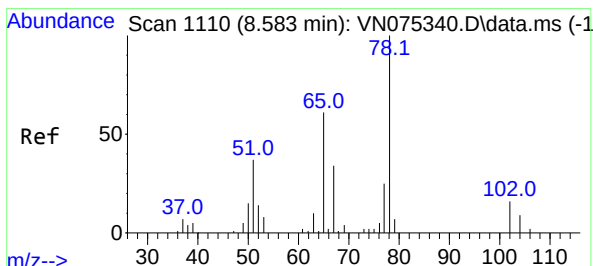
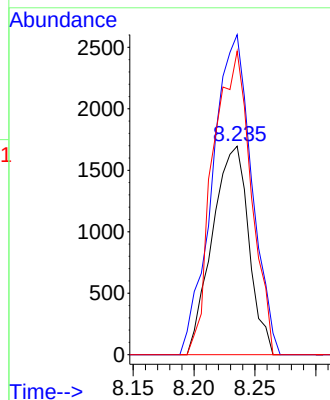
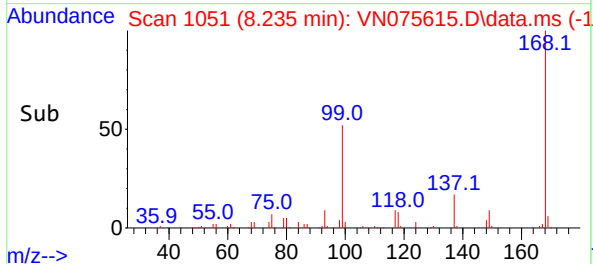


#31
Cyclohexane
Concen: 1.037 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.024 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

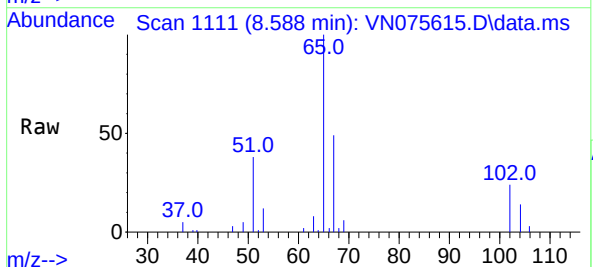
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MSVOA_N
ClientSampleId :
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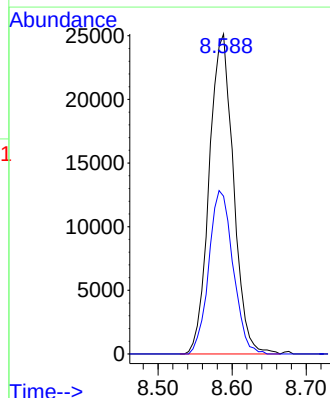
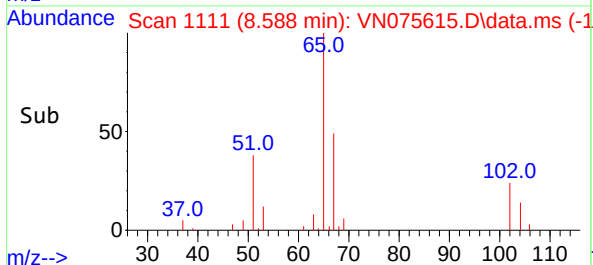
Tgt Ion: 56 Resp: 3529
Ion Ratio Lower Upper
56 100
69 153.5 25.2 37.8#
84 145.6 77.8 116.8#

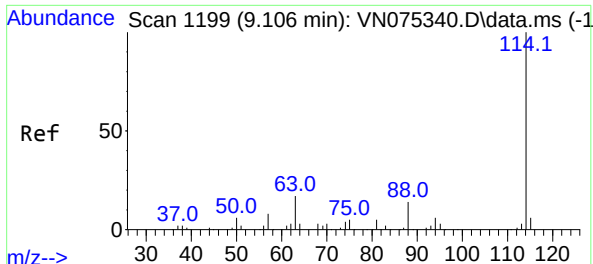


#33
1,2-Dichloroethane-d4
Concen: 53.213 ug/l
RT: 8.588 min Scan# 1111
Delta R.T. 0.005 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43



Tgt Ion: 65 Resp: 56991
Ion Ratio Lower Upper
65 100
67 51.3 0.0 102.0

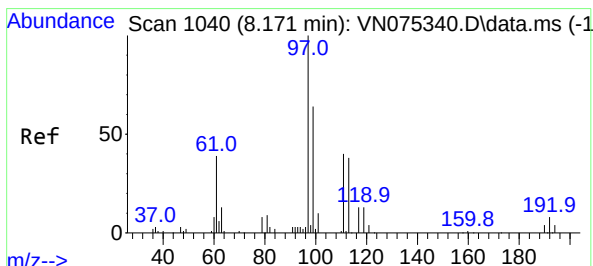
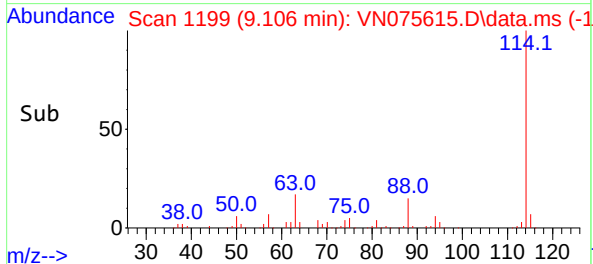
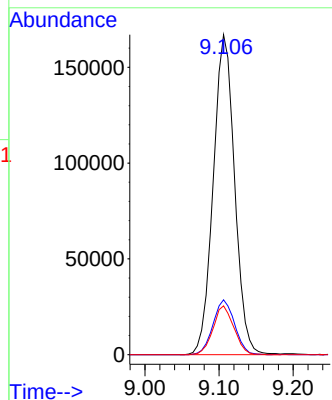
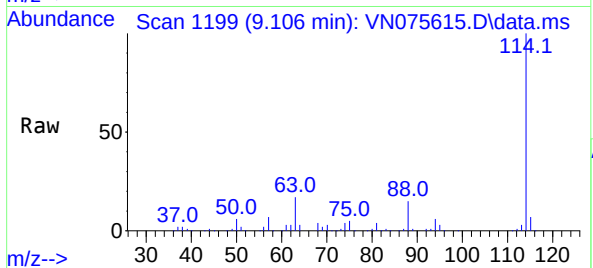




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. -0.000 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

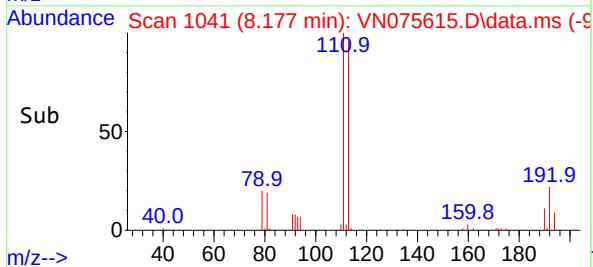
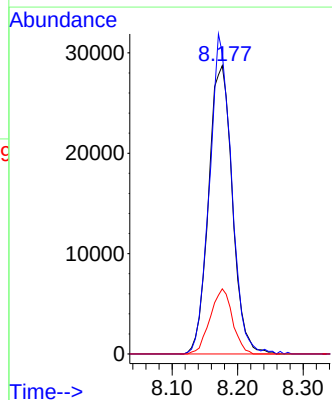
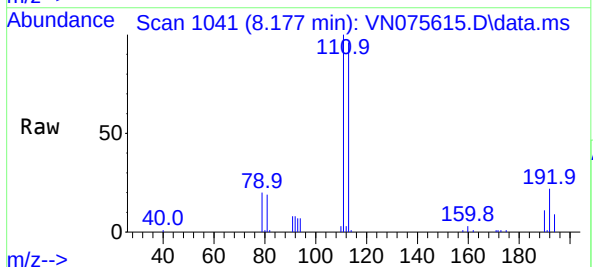
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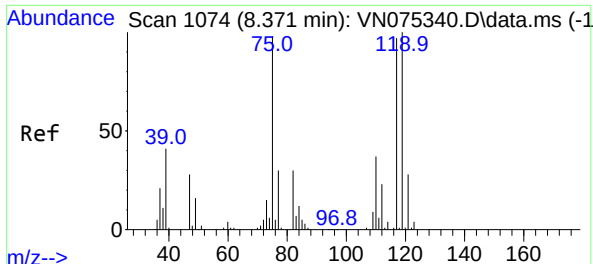
Tgt Ion:114 Resp: 334540
Ion Ratio Lower Upper
114 100
63 17.1 0.0 39.6
88 15.2 0.0 29.0



#35
Dibromofluoromethane
Concen: 55.076 ug/l
RT: 8.177 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion:113 Resp: 72380
Ion Ratio Lower Upper
113 100
111 102.5 80.5 120.7
192 21.1 13.2 19.8#





#36

1,1-Dichloropropene

Concen: 4.598 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN075615.D

Acq: 07 Dec 2022 18:43

Instrument :

MSVOA_N

ClientSampleId :

MH-18

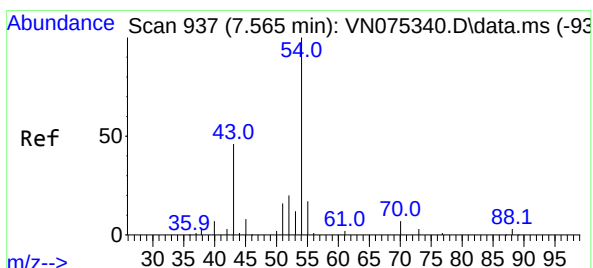
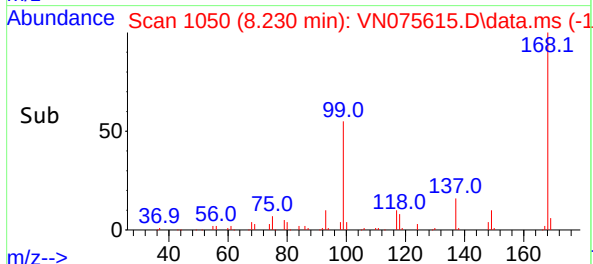
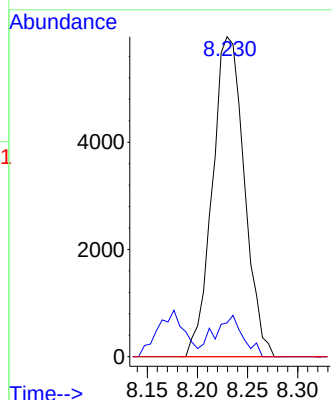
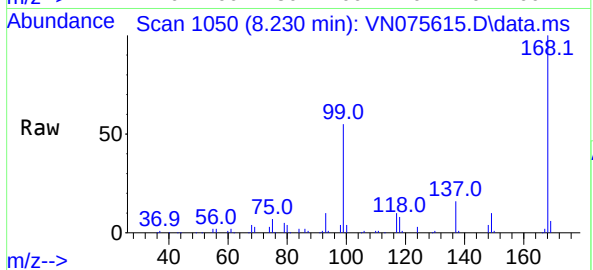
Tgt Ion: 75 Resp: 13177

Ion Ratio Lower Upper

75 100

110 11.6 17.8 53.3#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 9.856 ug/l

RT: 7.565 min Scan# 937

Delta R.T. -0.000 min

Lab File: VN075615.D

Acq: 07 Dec 2022 18:43

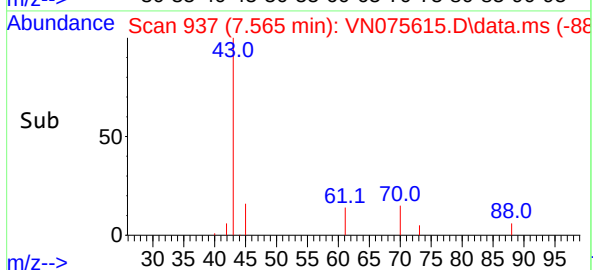
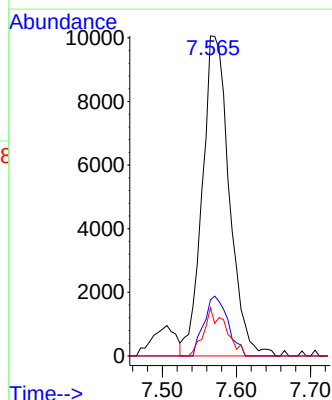
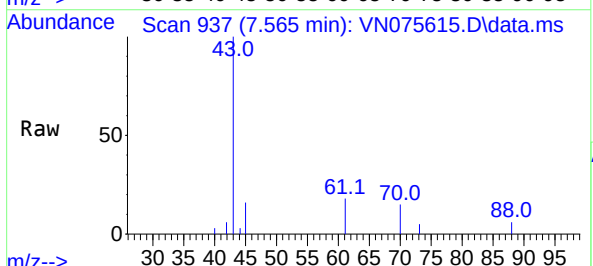
Tgt Ion: 43 Resp: 25435

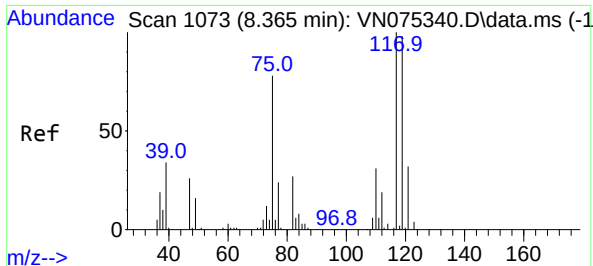
Ion Ratio Lower Upper

43 100

61 16.5 12.2 18.4

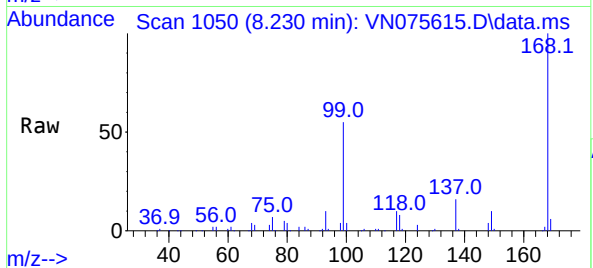
70 12.1 9.4 14.2



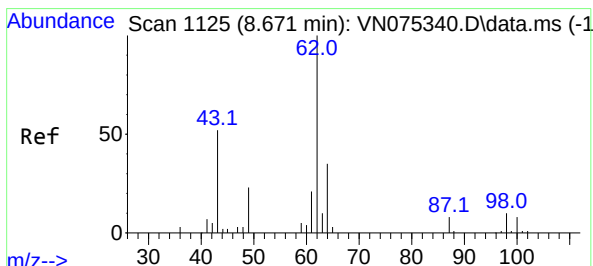
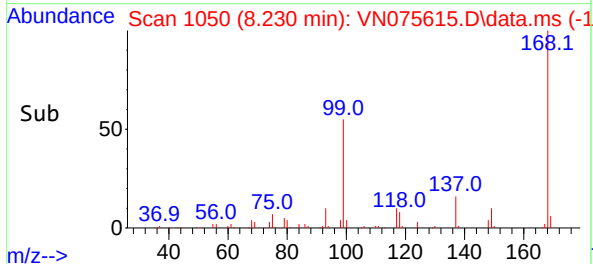
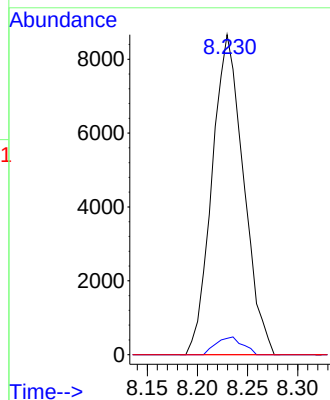


#38
Carbon Tetrachloride
Concen: 6.017 ug/l
RT: 8.230 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Instrument :
MSVOA_N
ClientSampleId :
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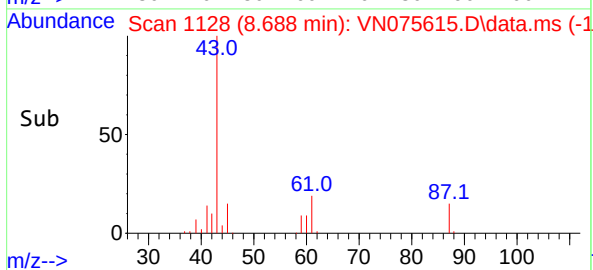
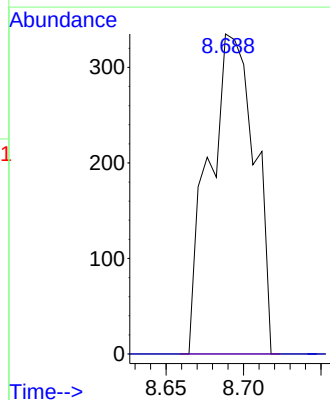
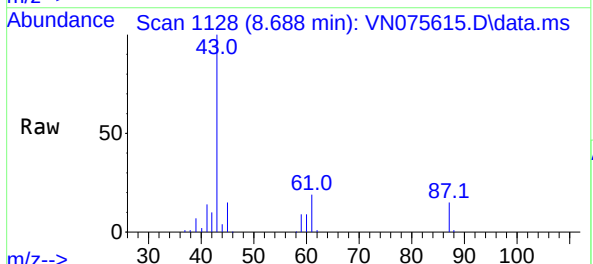


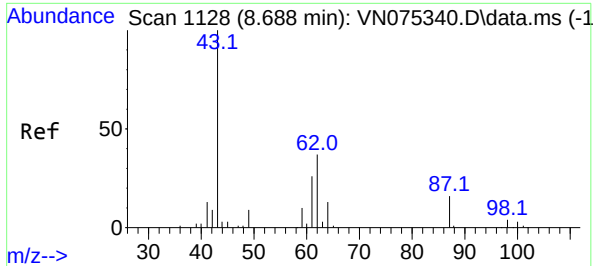
Tgt Ion:117 Resp: 18942
Ion Ratio Lower Upper
117 100
119 5.1 76.7 115.1#
121 0.0 23.9 35.9#



#42
1,2-Dichloroethane
Concen: 0.233 ug/l
RT: 8.688 min Scan# 1128
Delta R.T. 0.017 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 62 Resp: 686
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 41.058 ug/l

RT: 8.694 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN075615.D

Acq: 07 Dec 2022 18:43

Instrument :

MSVOA_N

ClientSampleId :

MH-18

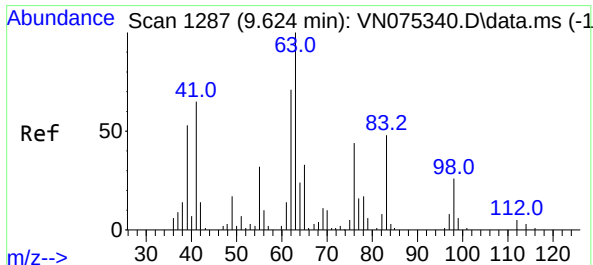
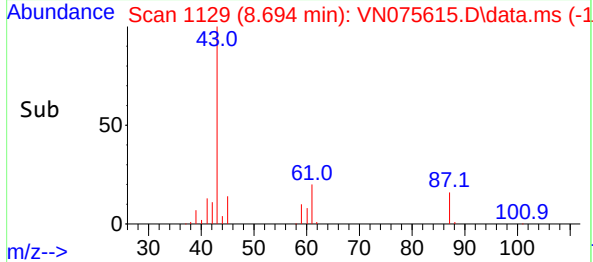
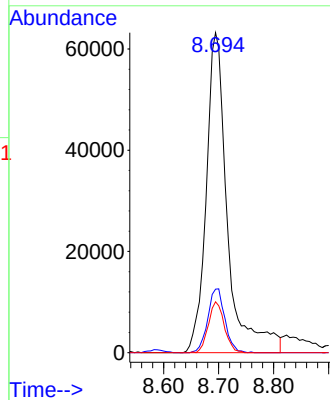
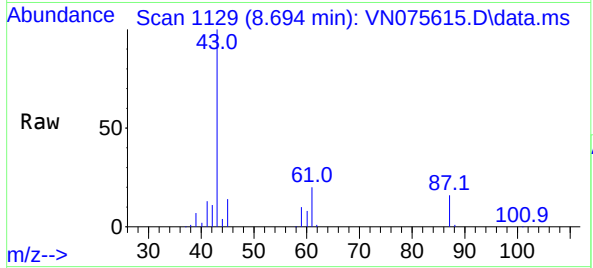
Tgt Ion: 43 Resp: 170068

Ion Ratio Lower Upper

43 100

61 16.0 22.4 33.6#

87 11.9 12.5 18.7#



#45

1,2-Dichloropropane

Concen: 0.789 ug/l

RT: 9.741 min Scan# 1307

Delta R.T. 0.117 min

Lab File: VN075615.D

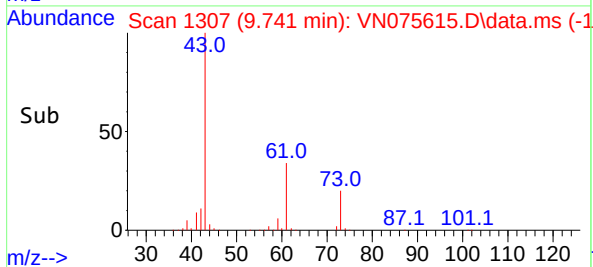
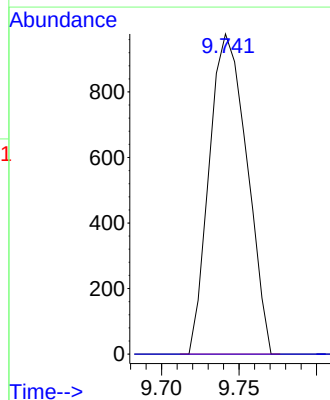
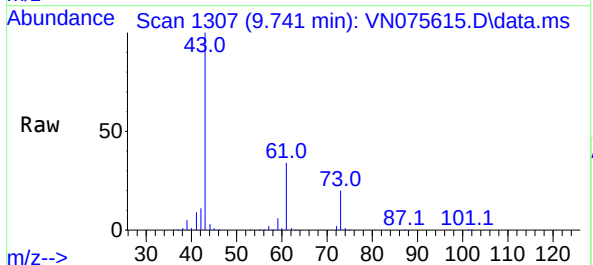
Acq: 07 Dec 2022 18:43

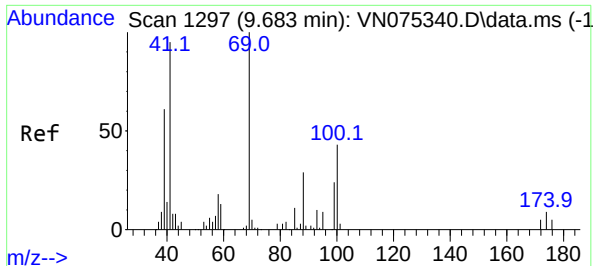
Tgt Ion: 63 Resp: 1650

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#

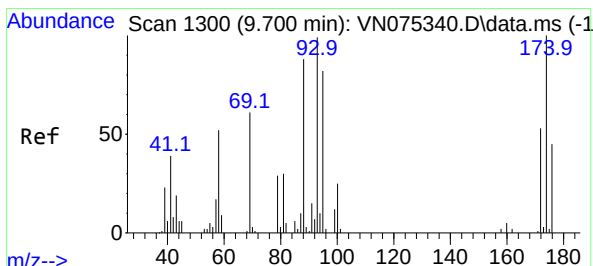
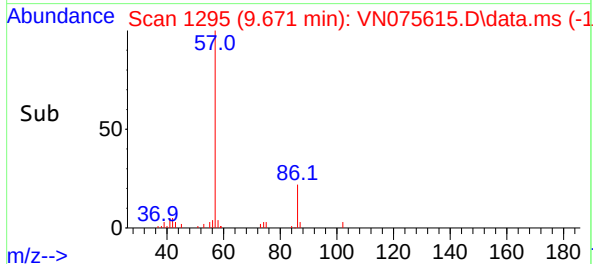
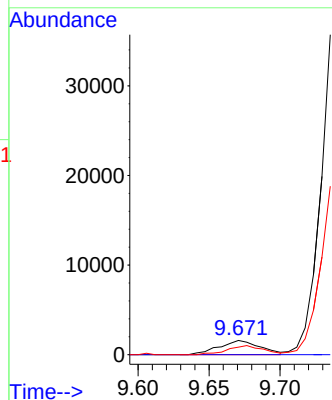
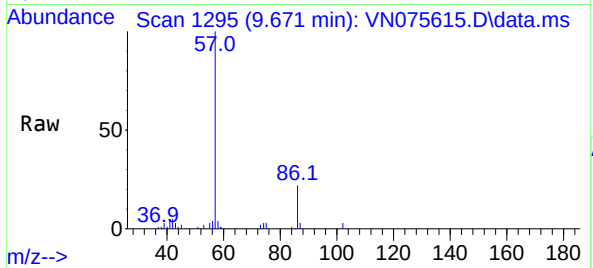




#48
Methyl methacrylate
Concen: 1.660 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

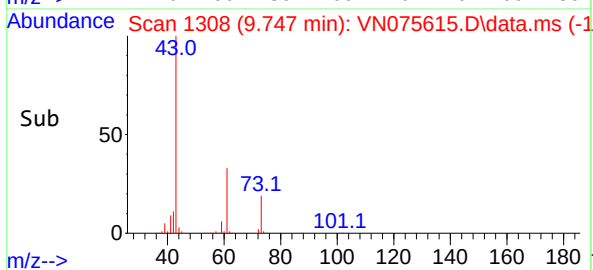
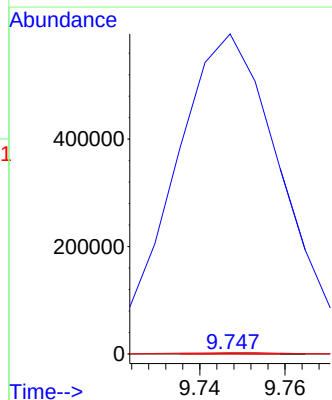
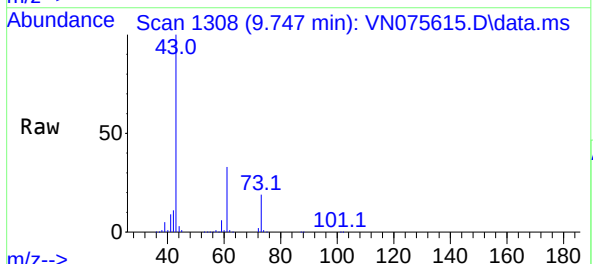
Instrument :
MSVOA_N
ClientSampleId :
MH-18

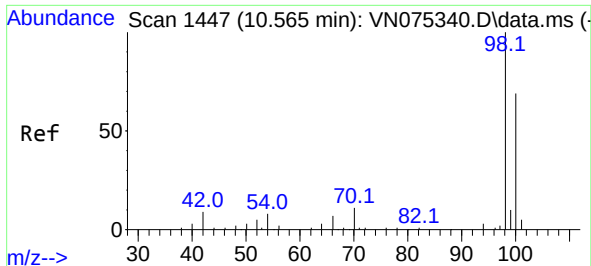
Tgt Ion: 41 Resp: 3179
Ion Ratio Lower Upper
41 100
69 0.0 80.2 120.2#
39 56.2 56.2 84.2



#49
1,4-Dioxane
Concen: 1.489 ug/l
RT: 9.747 min Scan# 1308
Delta R.T. 0.047 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 88 Resp: 81
Ion Ratio Lower Upper
88 100
43 1328893.8 17.5 26.3#
58 5292.6 49.8 74.8#

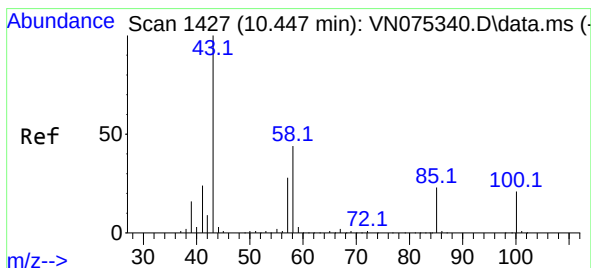
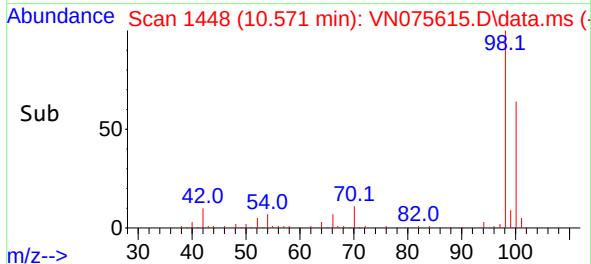
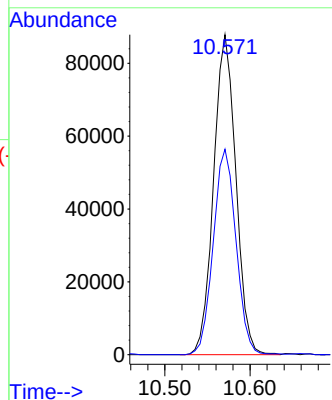
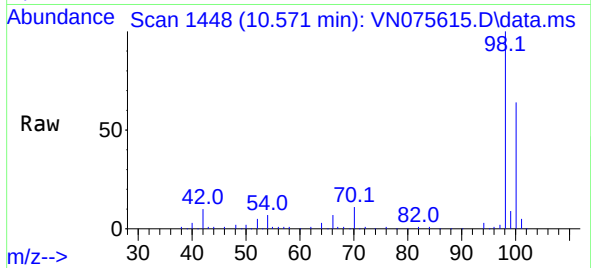




#50
Toluene-d8
Concen: 53.931 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

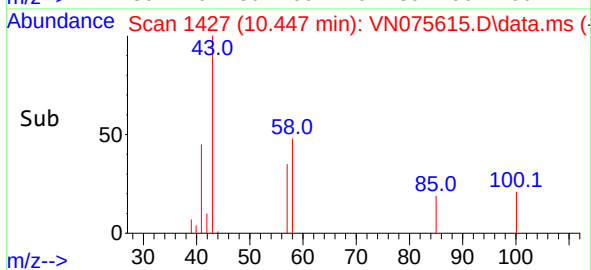
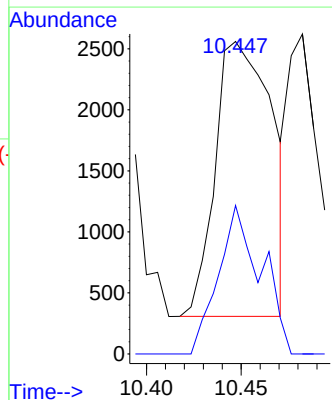
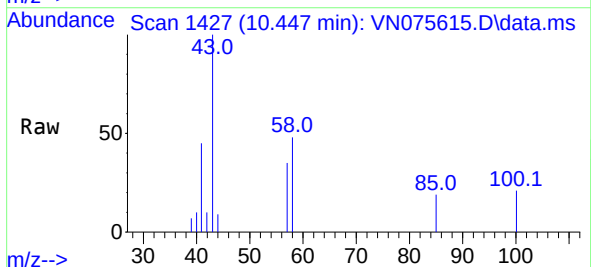
Instrument :
MSVOA_N
ClientSampleId :
MH-18

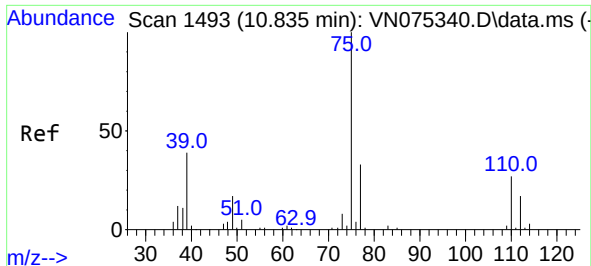
Tgt Ion: 98 Resp: 159631
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 1.776 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 43 Resp: 4686
Ion Ratio Lower Upper
43 100
58 40.8 33.6 50.4

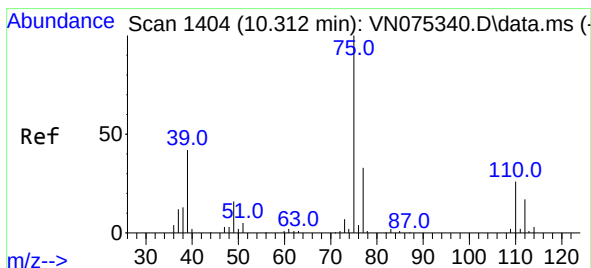
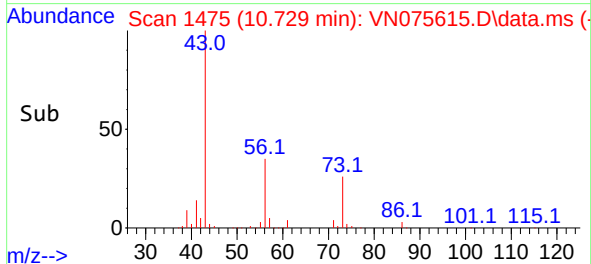
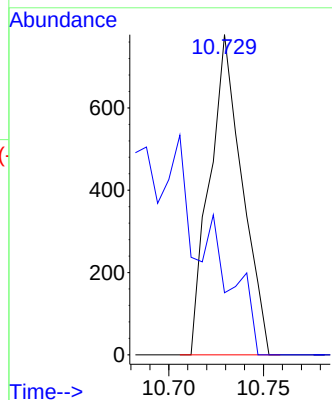
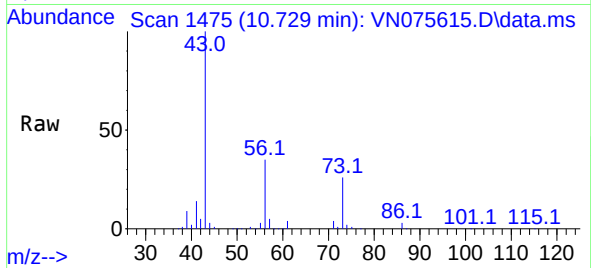




#53
t-1,3-Dichloropropene
Concen: 0.302 ug/l
RT: 10.729 min Scan# 1412
Delta R.T. -0.106 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

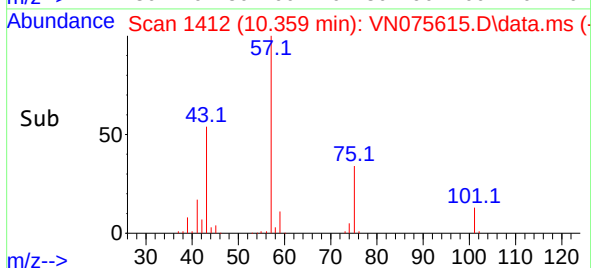
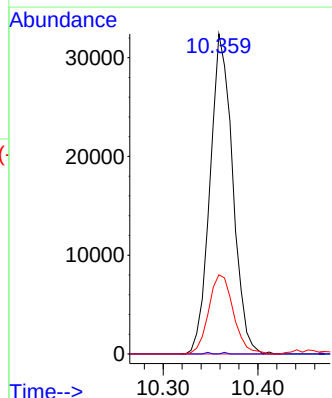
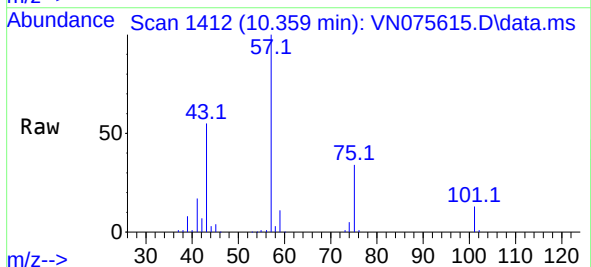
Instrument :
MSVOA_N
ClientSampleId :
MH-18

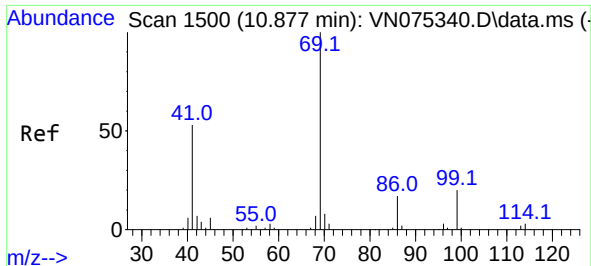
Tgt Ion: 75 Resp: 929
Ion Ratio Lower Upper
75 100
77 19.4 25.4 38.2#



#54
cis-1,3-Dichloropropene
Concen: 16.125 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.047 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 75 Resp: 53853
Ion Ratio Lower Upper
75 100
77 0.0 23.7 35.5#
39 24.8 35.8 53.6#

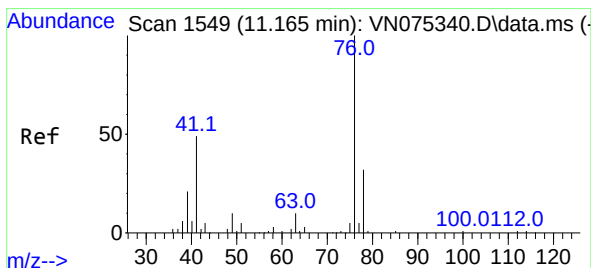
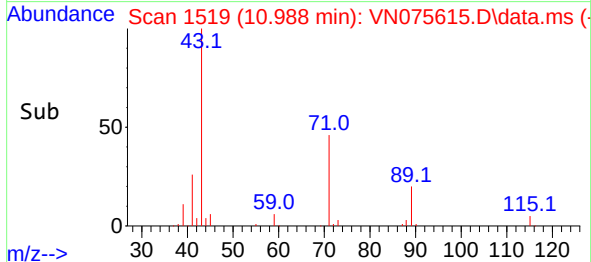
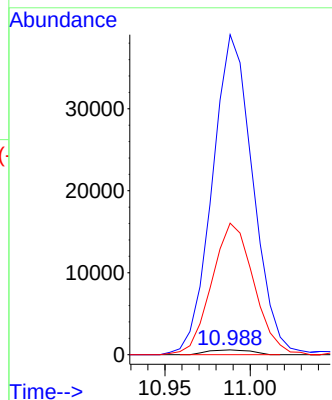
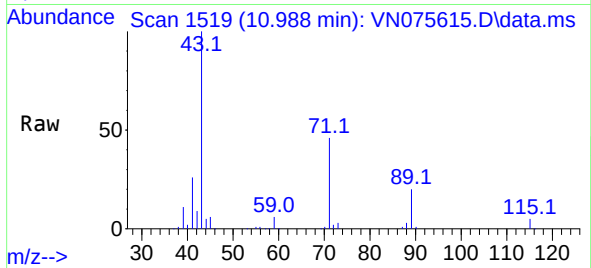




#56
Ethyl methacrylate
Concen: 0.335 ug/l
RT: 10.988 min Scan# 1519
Delta R.T. 0.111 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

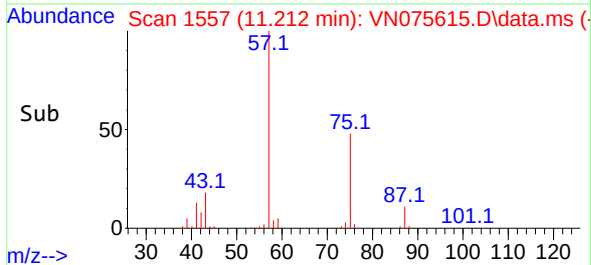
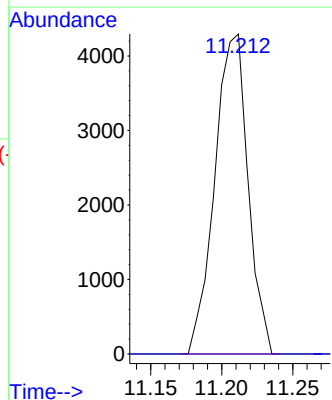
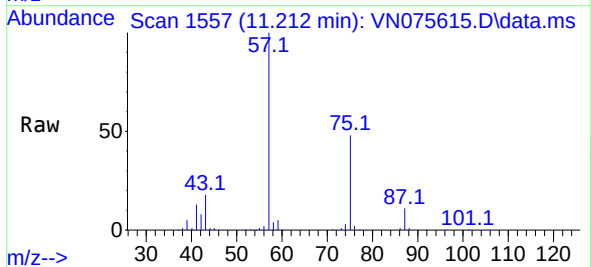
Instrument :
MSVOA_N
ClientSampleId :
MH-18

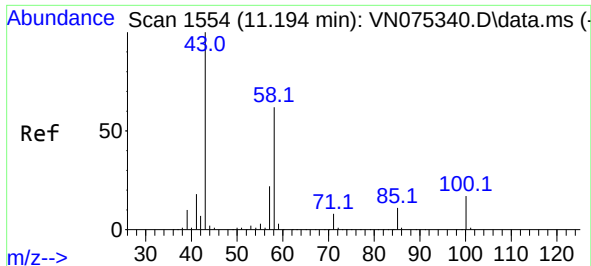
Tgt Ion: 69 Resp: 1043
Ion Ratio Lower Upper
69 100
41 6251.4 45.6 68.4#
39 2647.1 28.5 42.7#



#57
1,3-Dichloropropane
Concen: 1.865 ug/l
RT: 11.212 min Scan# 1557
Delta R.T. 0.047 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 76 Resp: 7005
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

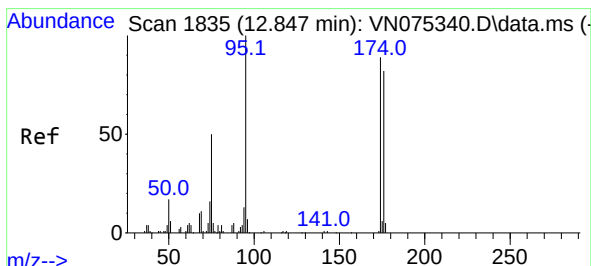
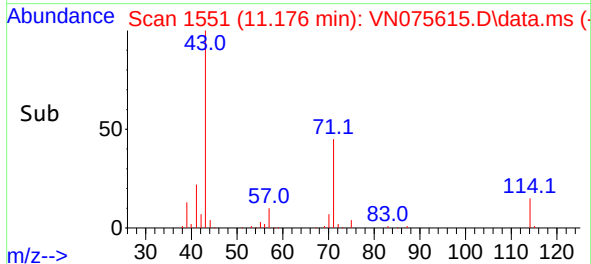
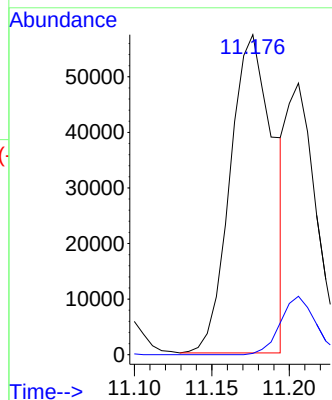
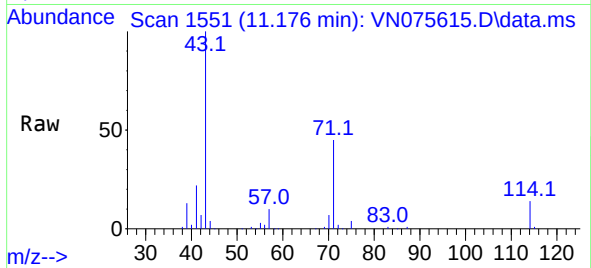




#59
2-Hexanone
Concen: 56.265 ug/l
RT: 11.176 min Scan# 111464
Delta R.T. -0.018 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

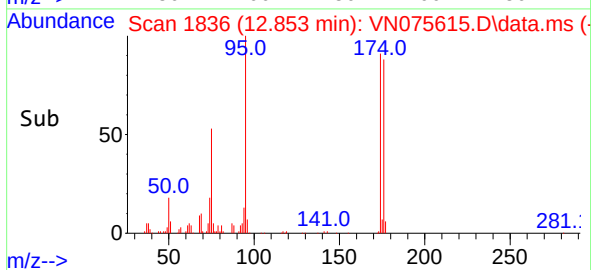
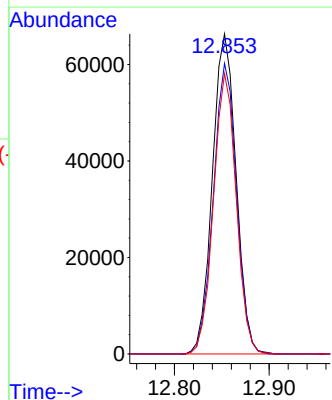
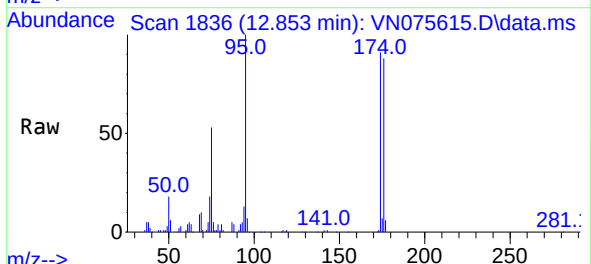
Instrument :
MSVOA_N
ClientSampleId :
MH-18

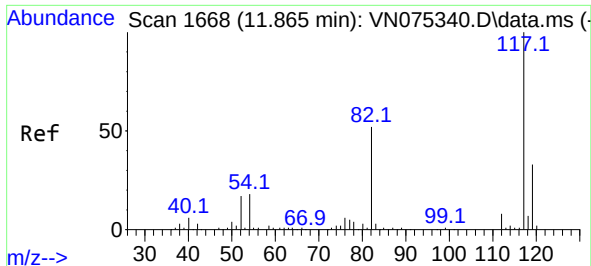
Tgt Ion: 43 Resp: 111464
Ion Ratio Lower Upper
43 100
58 0.0 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 52.709 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion: 95 Resp: 115154
Ion Ratio Lower Upper
95 100
174 88.9 0.0 147.4
176 84.1 0.0 142.2

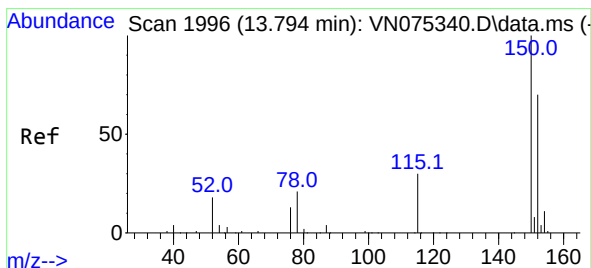
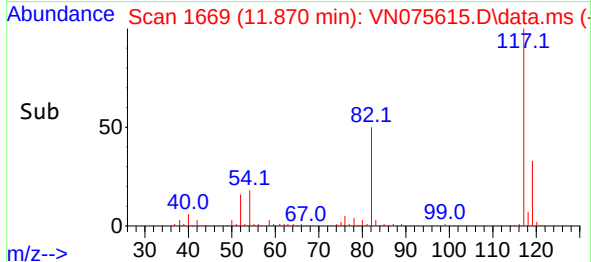
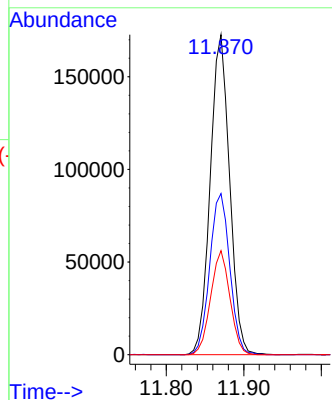
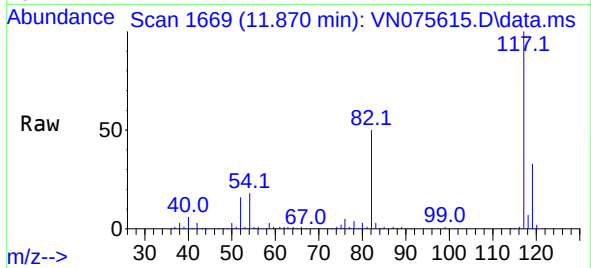




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1669
Delta R.T. 0.005 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

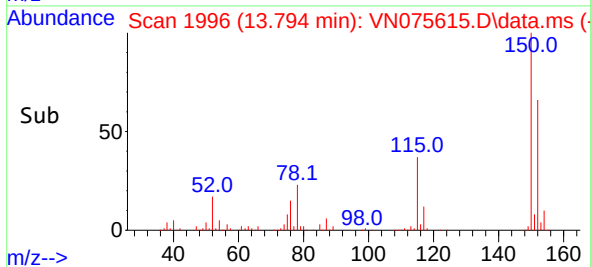
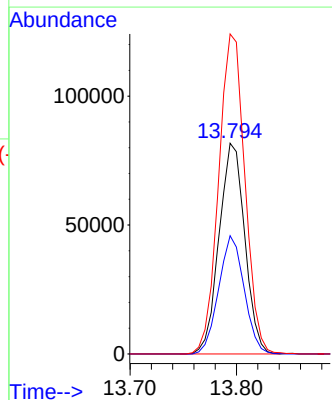
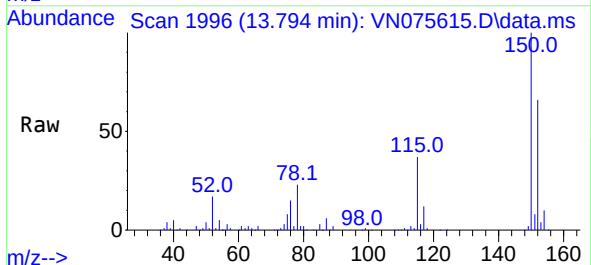
Instrument :
MSVOA_N
ClientSampleId :
MH-18

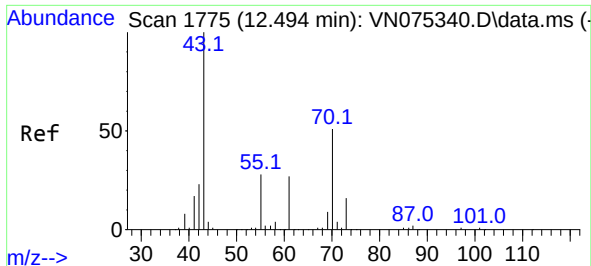
Tgt Ion:117 Resp: 300073
Ion Ratio Lower Upper
117 100
82 50.4 43.1 64.7
119 32.5 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

Tgt Ion:152 Resp: 136975
Ion Ratio Lower Upper
152 100
115 55.6 30.2 90.6
150 154.9 0.0 348.4

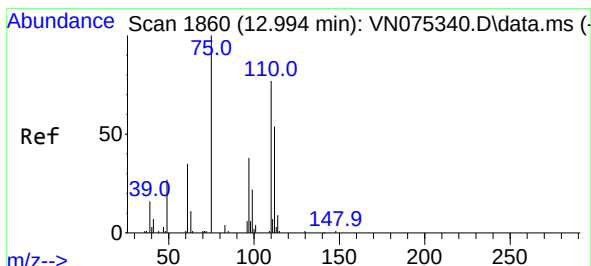
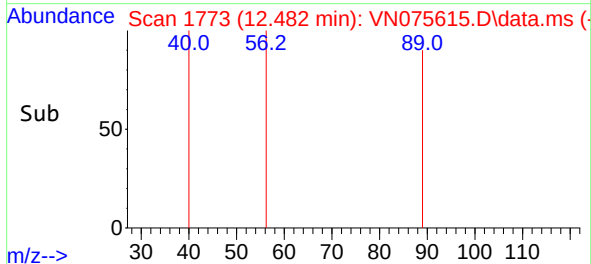
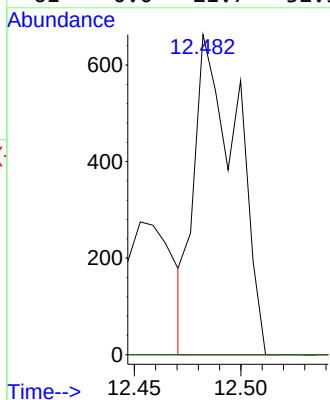
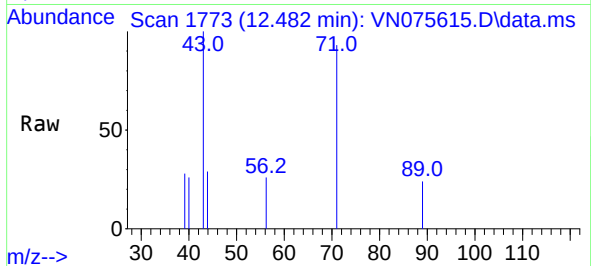




#74
N-amy1 acetate
Concen: 0.299 ug/l
RT: 12.482 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

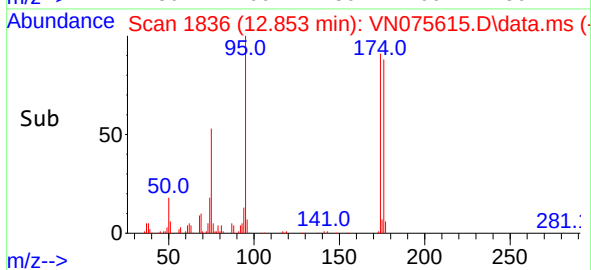
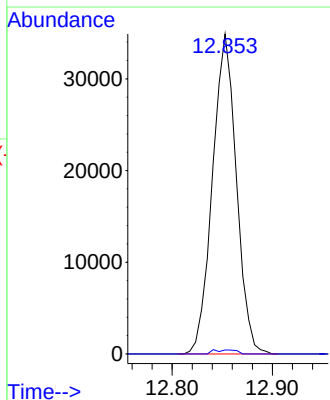
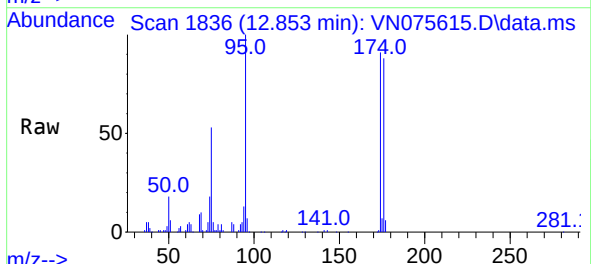
Instrument :
MSVOA_N
ClientSampleId :
MH-18

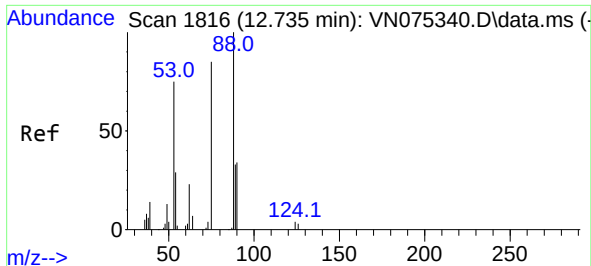
Tgt Ion: 43	Resp:	920
Ion	Ratio	Lower Upper
43	100	
70	0.0	39.8 59.8#
55	0.0	19.9 29.9#
61	0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 22.265 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075615.D
Acq: 07 Dec 2022 18:43

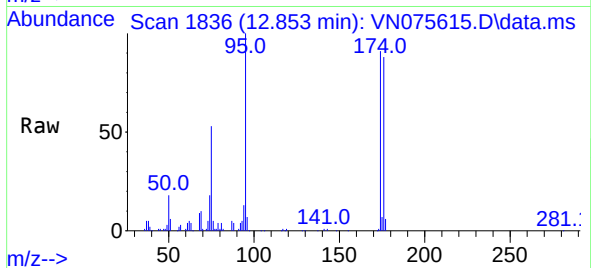
Tgt Ion: 75	Resp:	57664
Ion	Ratio	Lower Upper
75	100	
77	1.2	75.6 226.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.879 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN075615.D
 Acq: 07 Dec 2022 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-18



Tgt Ion: 75 Resp: 57664
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.7 56.5#

