

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091322\
 Data File : VN074439.D
 Acq On : 13 Sep 2022 17:41
 Operator : JC\MD
 Sample : N4492-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BR-03D-479.5-499.5-090122

Quant Time: Sep 14 08:03:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 10 06:10:29 2022
 Response via : Initial Calibration

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

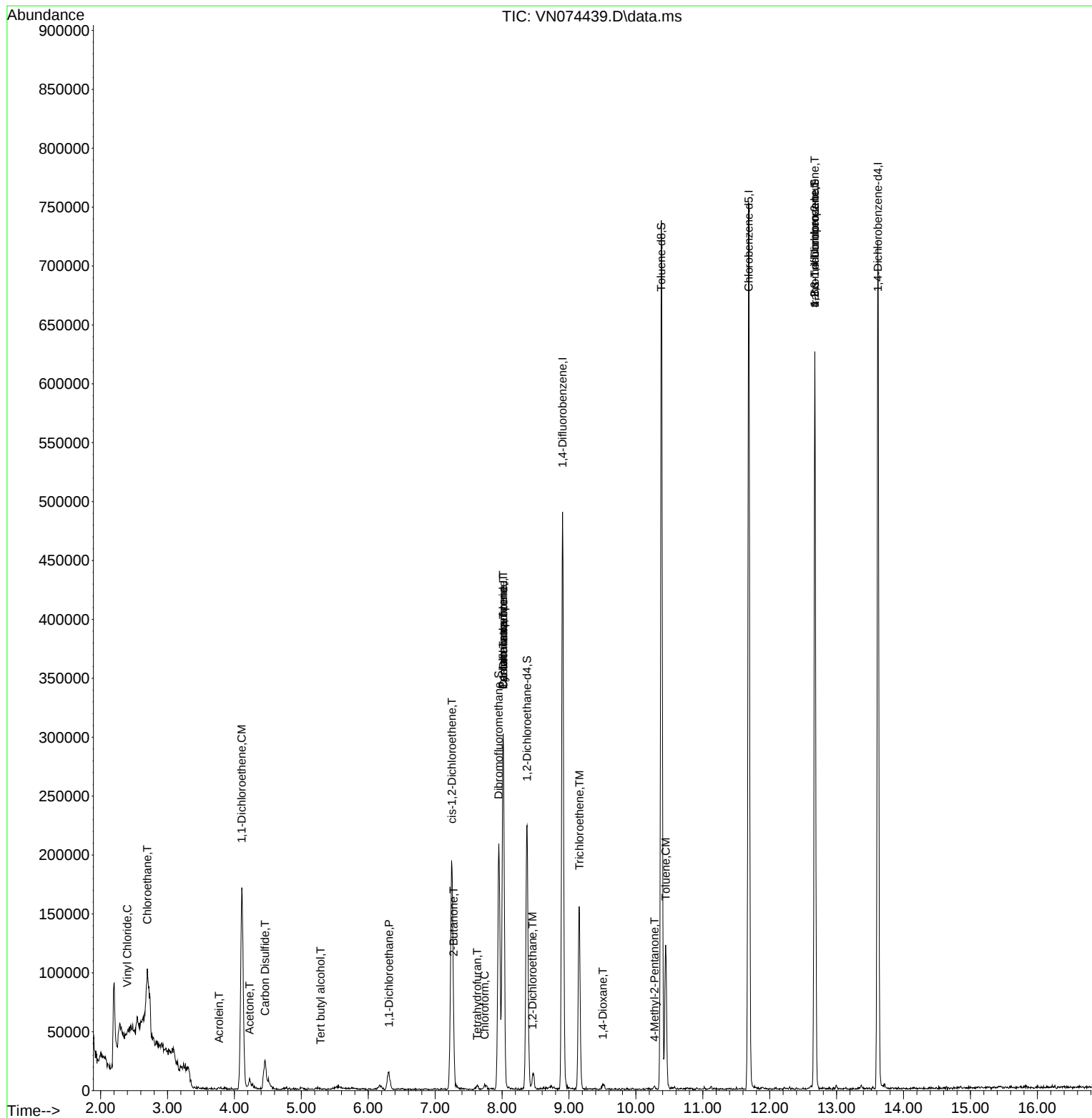
Internal Standards						
1) Pentafluorobenzene	8.016	168	201378	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	389220	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	367264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	165275	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	178743	51.302	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.600%			
35) Dibromofluoromethane	7.951	113	134447	51.167	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.340%			
50) Toluene-d8	10.380	98	468814	45.790	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.580%			
62) 4-Bromofluorobenzene	12.674	95	175562	47.230	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.460%			
Target Compounds					Qvalue	
3) Chloromethane	2.263	50	4183	Below Cal	#	1
4) Vinyl Chloride	2.399	62	1766	0.405	ug/l	89
6) Chloroethane	2.699	64	19602	3.213	ug/l #	59
11) Tert butyl alcohol	5.287	59	274	0.301	ug/l #	71
12) 1,1-Dichloroethene	4.110	96	86755	34.559	ug/l	90
13) Acrolein	3.769	56	163	0.269	ug/l #	15
16) Acetone	4.228	43	11700	6.220	ug/l #	88
17) Carbon Disulfide	4.457	76	46271	6.782	ug/l #	95
20) Methylene Chloride	4.998	84	844	Below Cal	#	3
24) 1,1-Dichloroethane	6.310	63	18953	3.327	ug/l #	94
25) 2-Butanone	7.275	43	2898	0.918	ug/l #	81
27) cis-1,2-Dichloroethene	7.251	96	103601	29.894	ug/l	91
29) Tetrahydrofuran	7.628	42	1963	0.940	ug/l #	82
30) Chloroform	7.739	83	1776	0.312	ug/l #	74
31) Cyclohexane	8.016	56	6954	1.255	ug/l #	44
36) 1,1-Dichloropropene	8.016	75	21113	4.877	ug/l #	53
38) Carbon Tetrachloride	8.016	117	24530	5.489	ug/l #	15
42) 1,2-Dichloroethane	8.457	62	9990	1.972	ug/l	99
44) Trichloroethene	9.157	130	47336	15.931	ug/l	98
49) 1,4-Dioxane	9.504	88	3506	36.760	ug/l #	86
51) 4-Methyl-2-Pentanone	10.280	43	2088	0.311	ug/l #	79
52) Toluene	10.445	92	48910	5.967	ug/l	99
74) N-amyl acetate	12.339	43	113	Below Cal	#	45
76) 1,2,3-Trichloropropane	12.674	75	119409	27.637	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	119409	61.603	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.439	75	55	Below Cal	#	8

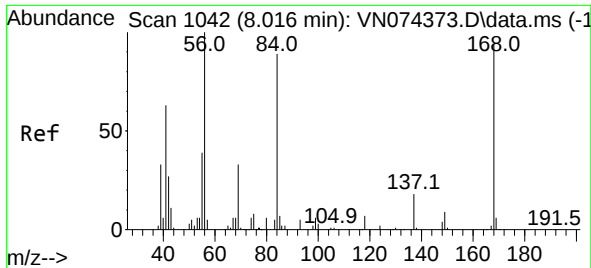
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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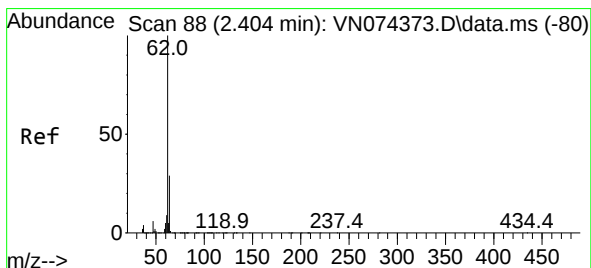
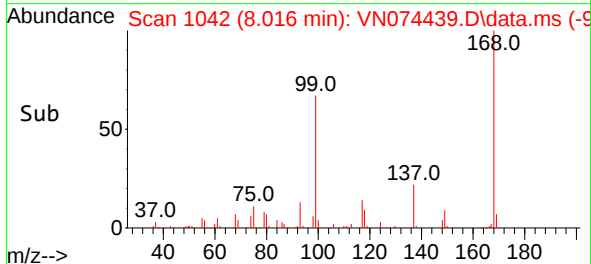
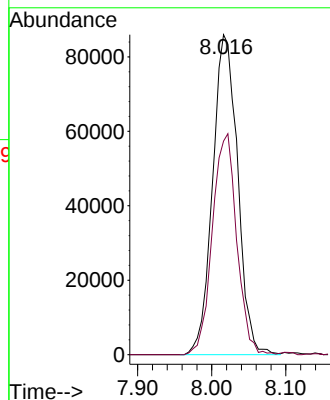
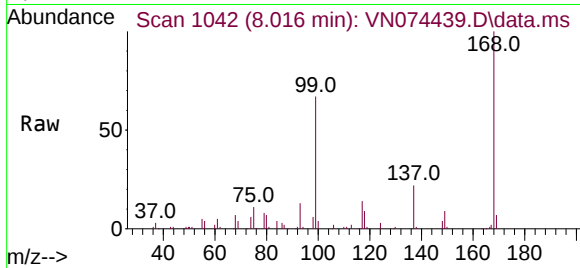




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

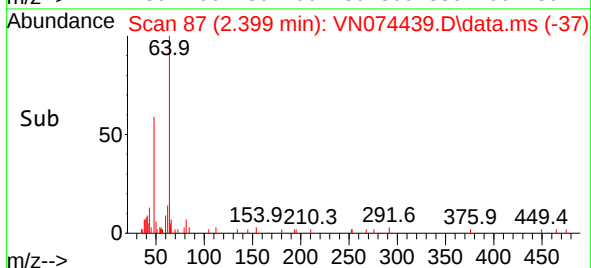
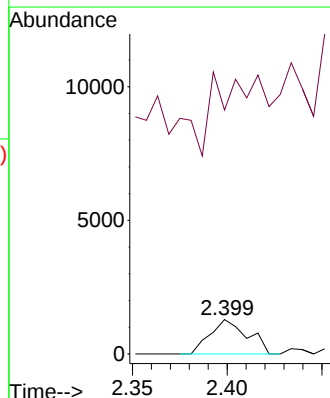
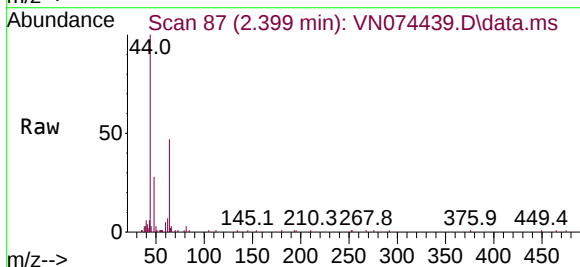
Instrument :
MSVOA_N
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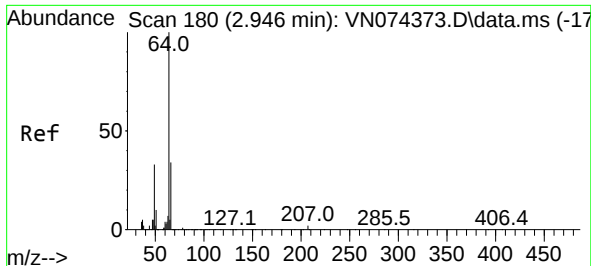
Tgt Ion:168 Resp: 201378
Ion Ratio Lower Upper
168 100
99 66.7 52.8 79.2



#4
Vinyl Chloride
Concen: 0.405 ug/l
RT: 2.399 min Scan# 87
Delta R.T. -0.006 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 62 Resp: 1766
Ion Ratio Lower Upper
62 100
64 23.6 23.5 35.3

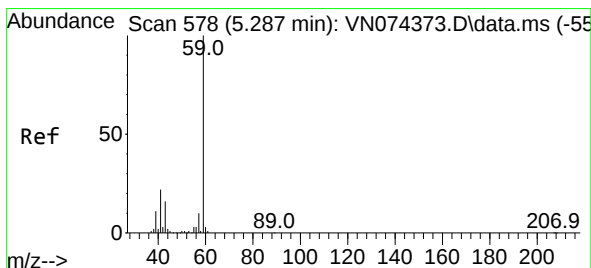
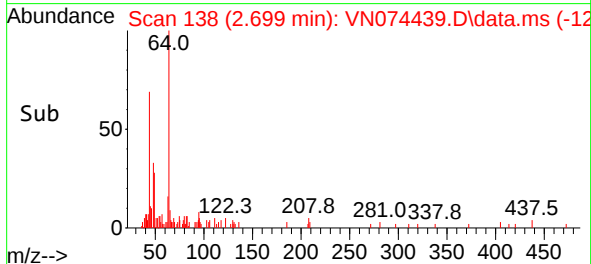
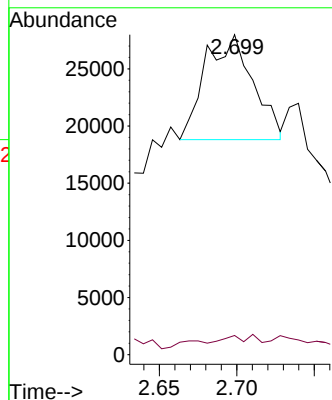
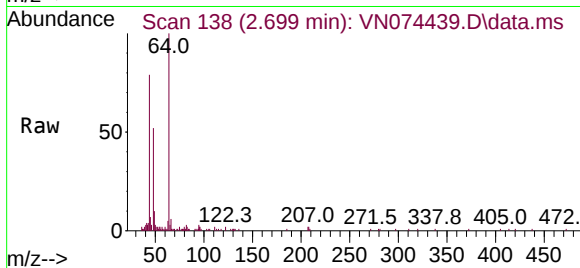




#6
Chloroethane
Concen: 3.213 ug/l
RT: 2.699 min Scan# 11
Delta R.T. -0.247 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

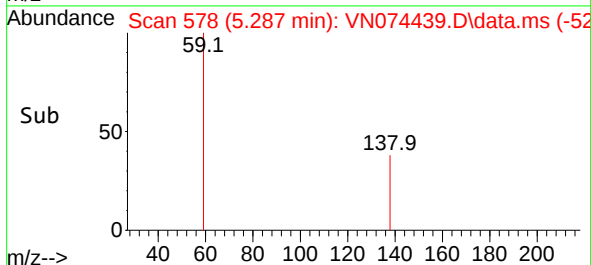
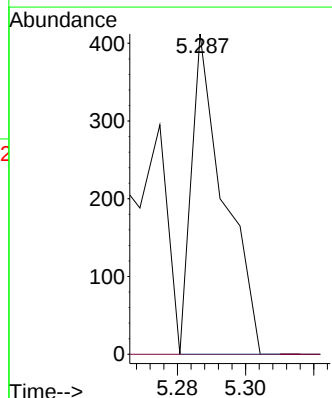
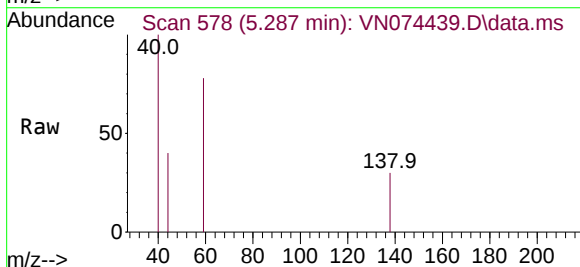
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-090122

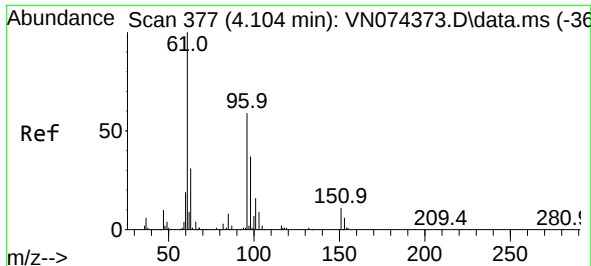
Tgt Ion: 64 Resp: 19602
Ion Ratio Lower Upper
64 100
66 9.8 26.5 39.7#



#11
Tert butyl alcohol
Concen: 0.301 ug/l
RT: 5.287 min Scan# 578
Delta R.T. 0.000 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 59 Resp: 274
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#





#12

1,1-Dichloroethene

Concen: 34.559 ug/l

RT: 4.110 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN074439.D

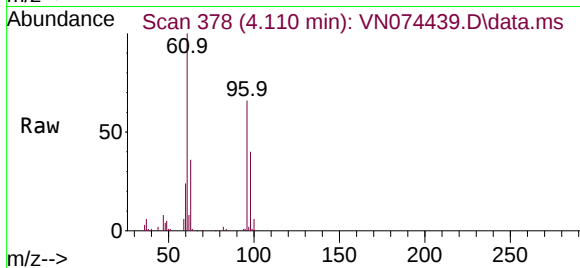
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Instrument :

MSVOA_N

ClientSampleId :

BR-03D-479.5-499.5-090122



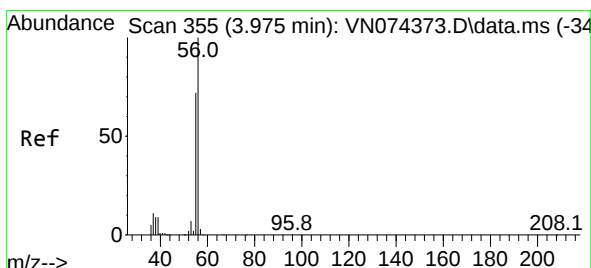
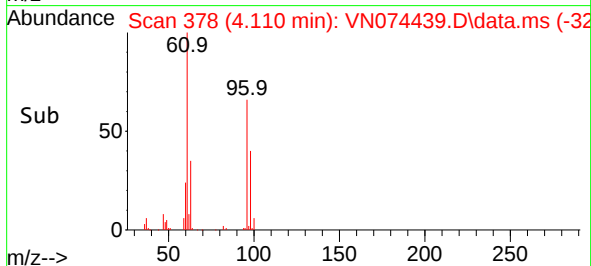
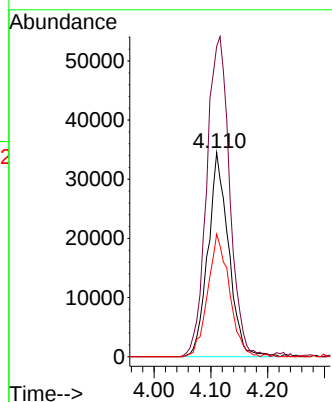
Tgt Ion: 96 Resp: 86755

Ion Ratio Lower Upper

96 100

61 152.0 134.7 202.1

98 60.1 50.2 75.4



#13

Acrolein

Concen: 0.269 ug/l

RT: 3.769 min Scan# 320

Delta R.T. -0.206 min

Lab File: VN074439.D

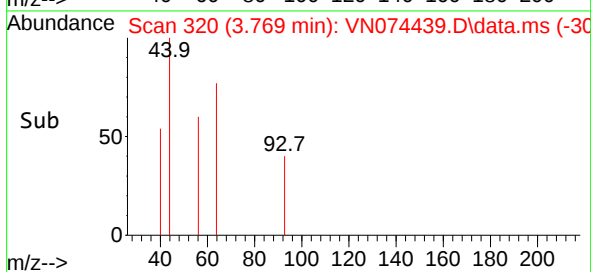
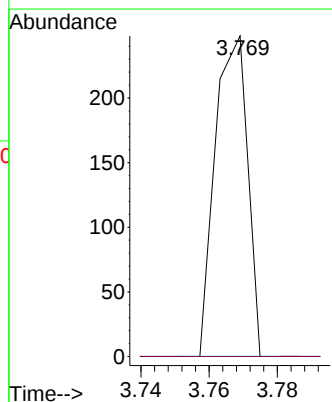
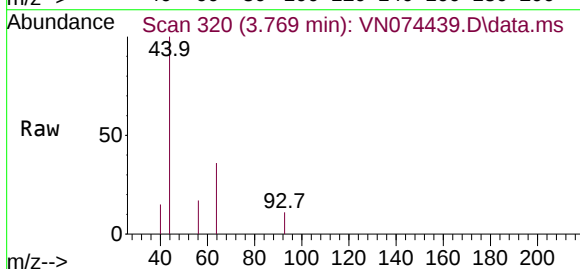
Acq: 13 Sep 2022 17:41

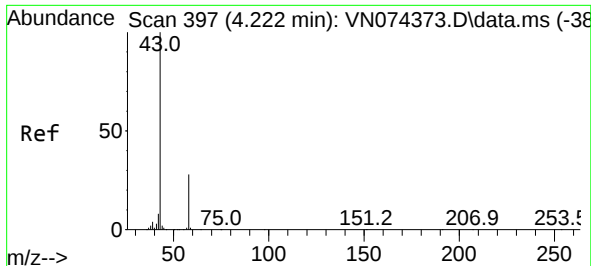
Tgt Ion: 56 Resp: 163

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#

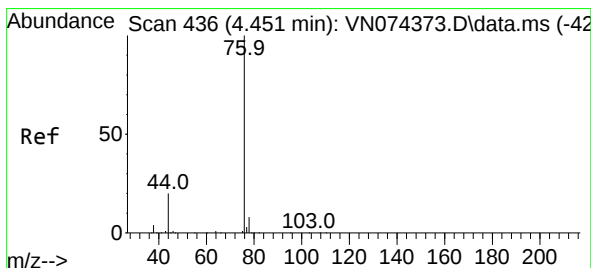
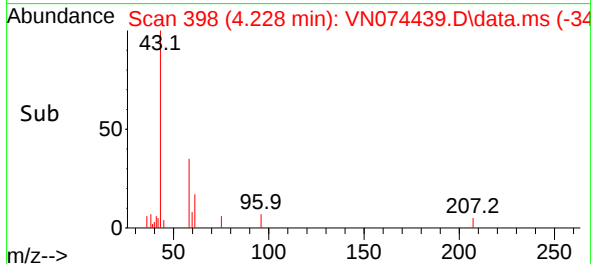
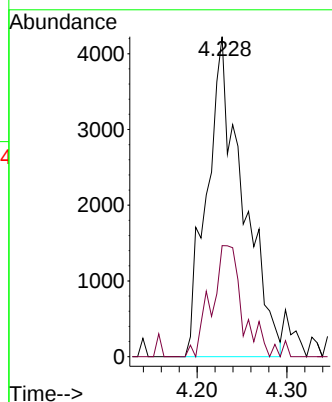
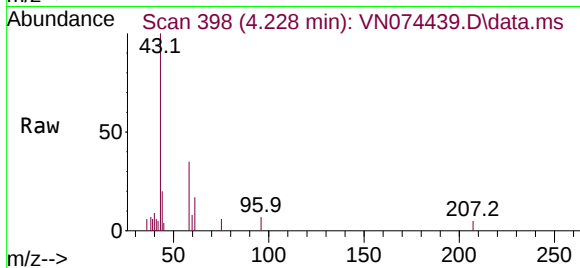




#16
Acetone
Concen: 6.220 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

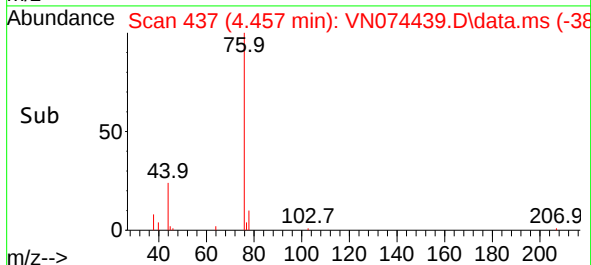
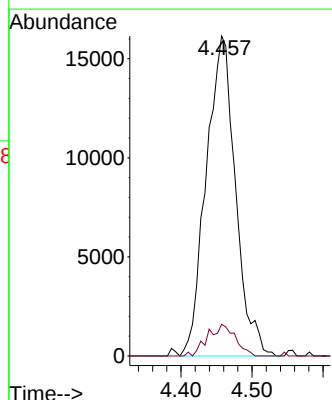
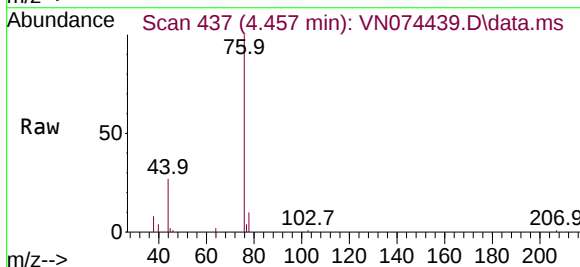
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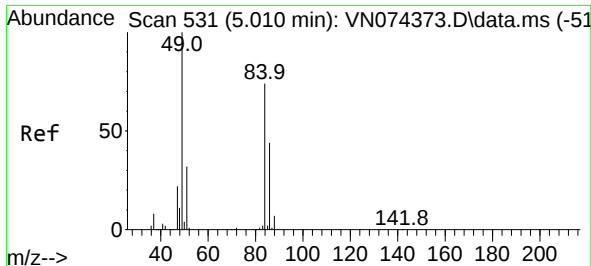
Tgt Ion: 43 Resp: 11700
Ion Ratio Lower Upper
43 100
58 34.7 22.7 34.1#



#17
Carbon Disulfide
Concen: 6.782 ug/l
RT: 4.457 min Scan# 437
Delta R.T. 0.006 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 76 Resp: 46271
Ion Ratio Lower Upper
76 100
78 9.9 6.5 9.7#

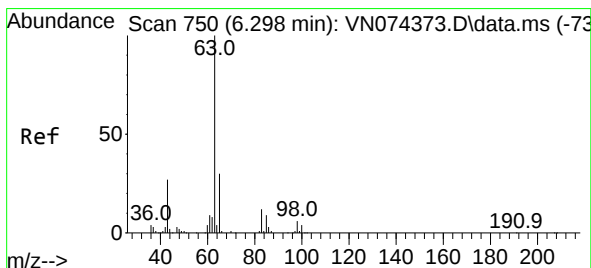
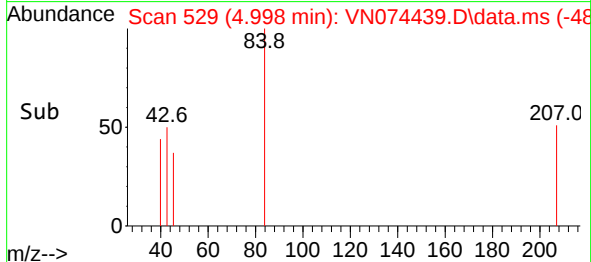
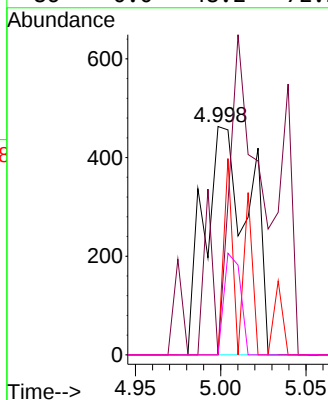
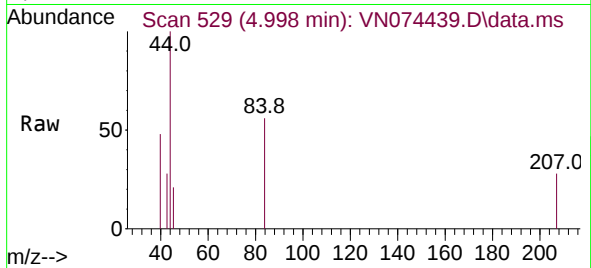




#20
Methylene Chloride
Concen: Below Cal
RT: 4.998 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

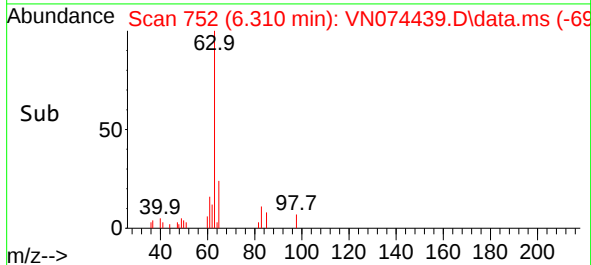
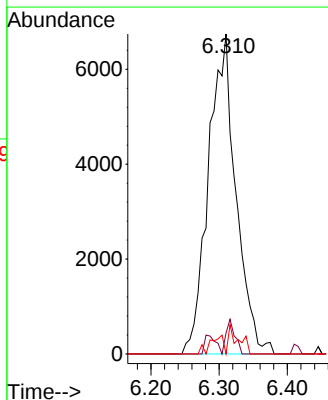
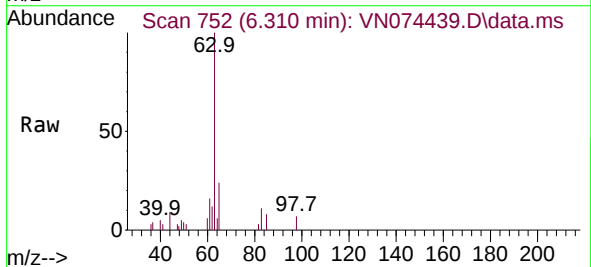
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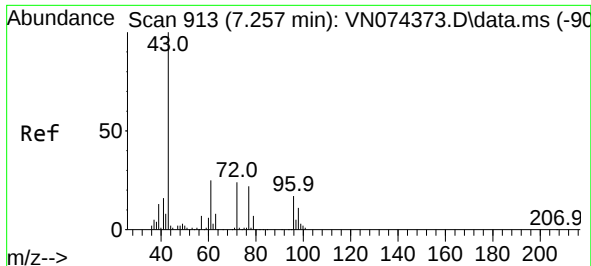
Tgt Ion: 84 Resp: 844
Ion Ratio Lower Upper
84 100
49 0.0 108.2 162.4#
51 0.0 34.3 51.5#
86 0.0 48.2 72.2#



#24
1,1-Dichloroethane
Concen: 3.327 ug/l
RT: 6.310 min Scan# 752
Delta R.T. 0.012 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 63 Resp: 18953
Ion Ratio Lower Upper
63 100
98 6.5 2.9 8.6
100 0.0 2.0 5.8#

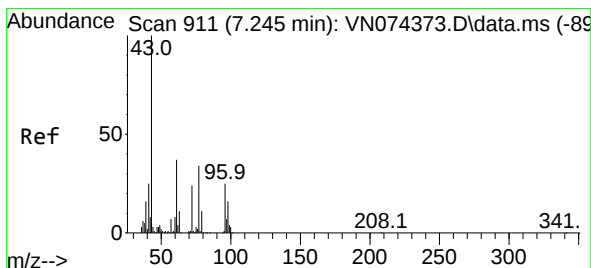
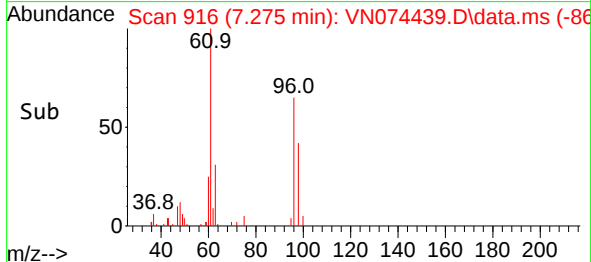
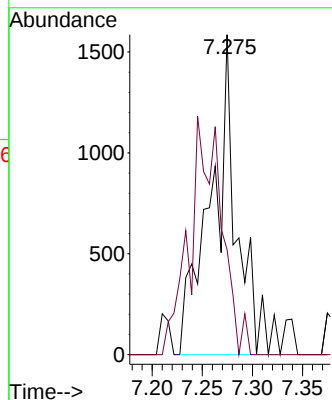
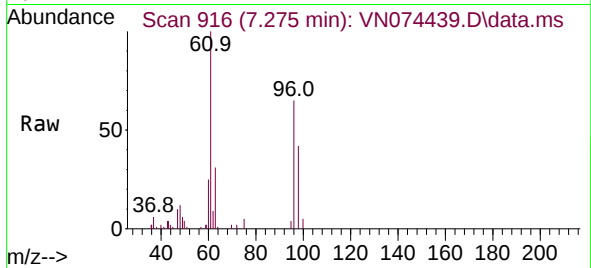




#25
2-Butanone
Concen: 0.918 ug/l
RT: 7.275 min Scan# 916
Delta R.T. 0.018 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

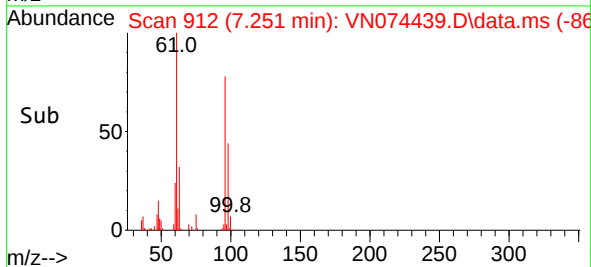
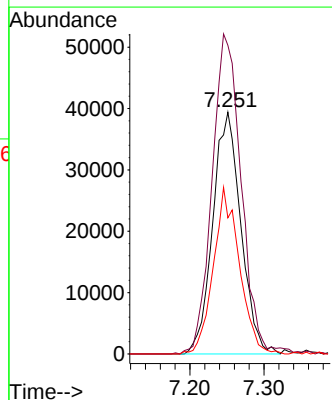
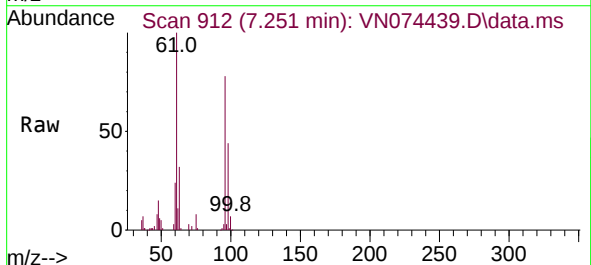
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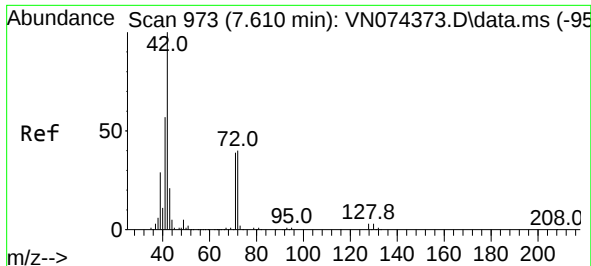
Tgt Ion: 43 Resp: 2898
Ion Ratio Lower Upper
43 100
72 32.8 18.9 28.3#



#27
cis-1,2-Dichloroethene
Concen: 29.894 ug/l
RT: 7.251 min Scan# 912
Delta R.T. 0.006 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 96 Resp: 103601
Ion Ratio Lower Upper
96 100
61 137.6 0.0 306.2
98 63.9 0.0 129.8





#29

Tetrahydrofuran

Concen: 0.940 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN074439.D

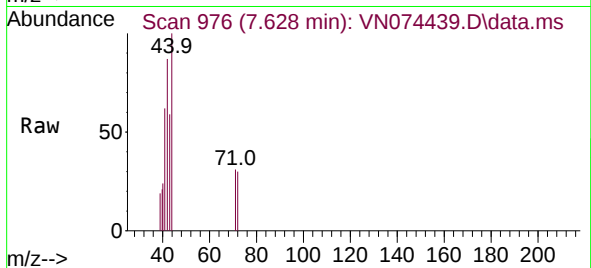
Acq: 13 Sep 2022 17:41

Instrument :

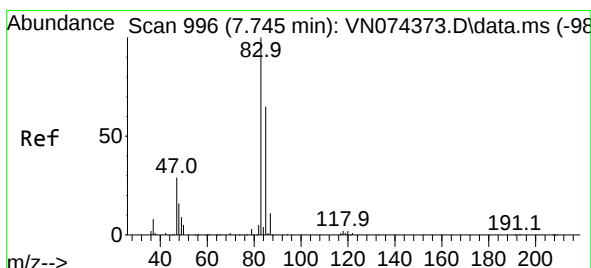
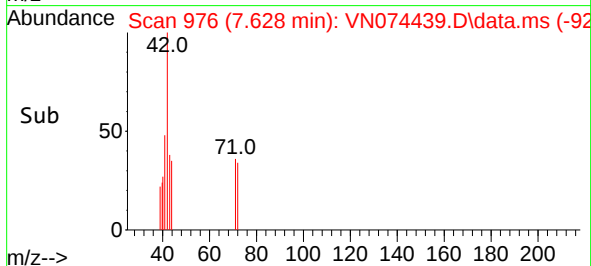
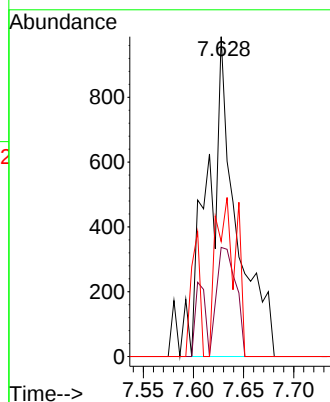
MSVOA_N

ClientSampleId :

BR-03D-479.5-499.5-090122



Tgt Ion:	42	Resp:	1963
Ion Ratio	100	Lower	Upper
72	23.0	32.7	49.1#
71	35.3	31.0	46.6



#30

Chloroform

Concen: 0.312 ug/l

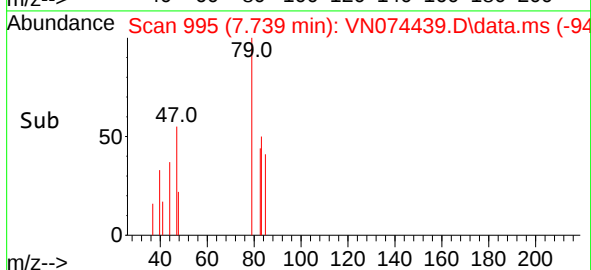
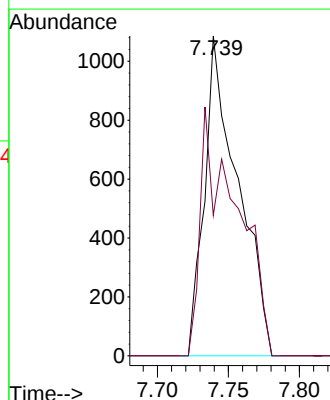
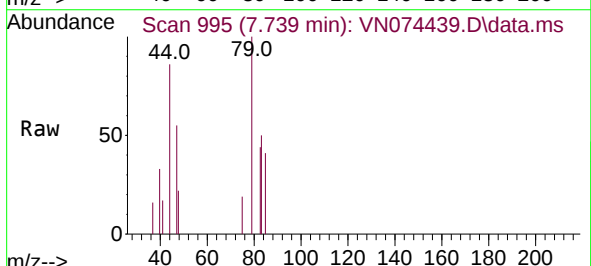
RT: 7.739 min Scan# 995

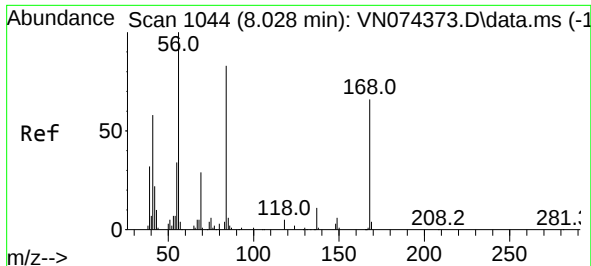
Delta R.T. -0.006 min

Lab File: VN074439.D

Acq: 13 Sep 2022 17:41

Tgt Ion:	83	Resp:	1776
Ion Ratio	100	Lower	Upper
85	43.9	51.8	77.6#

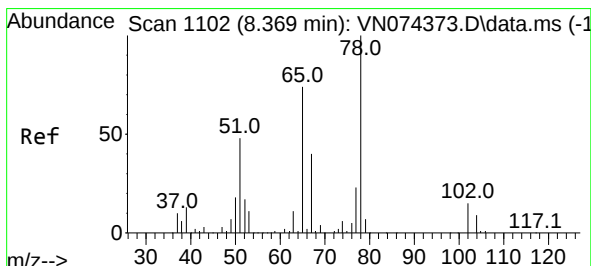
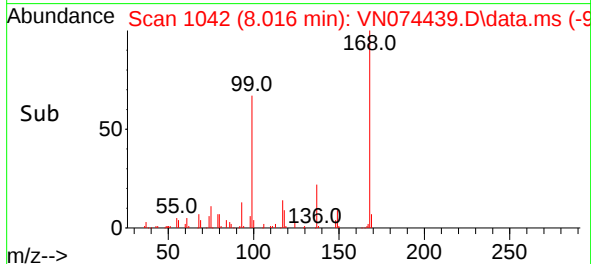
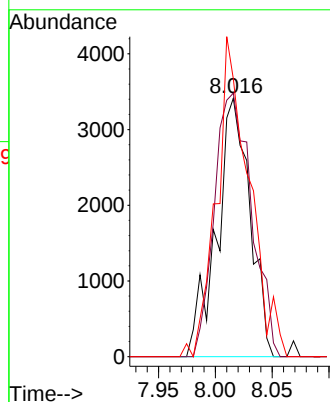
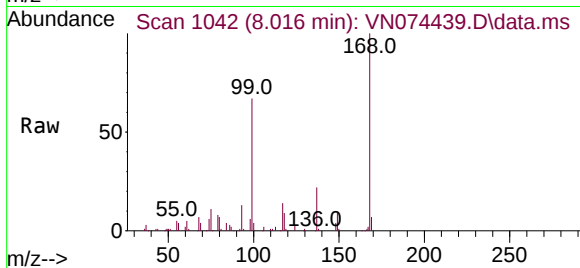




#31
Cyclohexane
Concen: 1.255 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.012 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

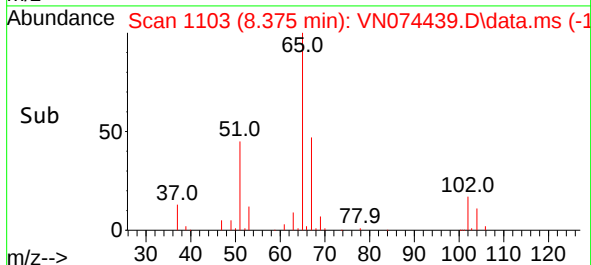
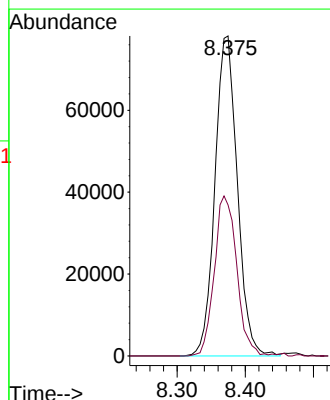
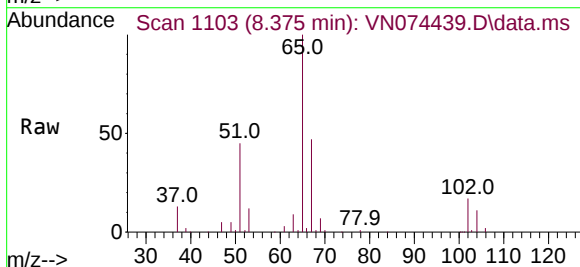
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-090122

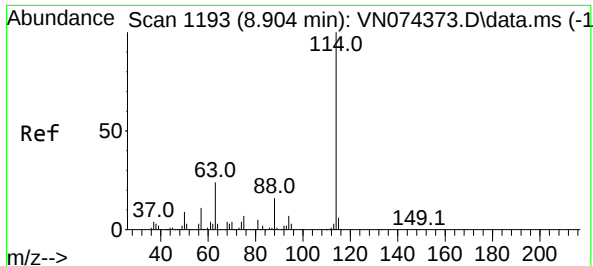
Tgt Ion: 56 Resp: 6954
Ion Ratio Lower Upper
56 100
69 102.0 23.0 34.4#
84 107.6 66.3 99.5#



#33
1,2-Dichloroethane-d4
Concen: 51.302 ug/l
RT: 8.375 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 65 Resp: 178743
Ion Ratio Lower Upper
65 100
67 50.0 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074439.D

Acq: 13 Sep 2022 17:41

Instrument :

MSVOA_N

ClientSampleId :

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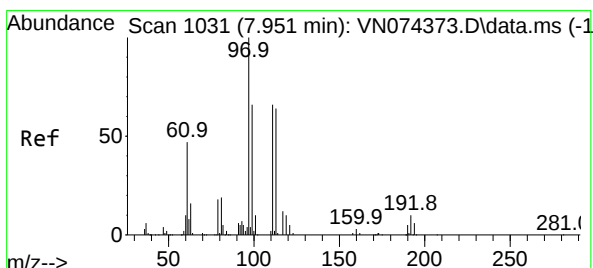
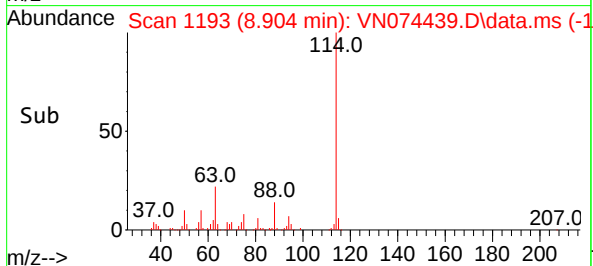
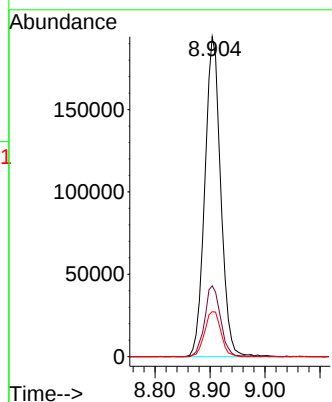
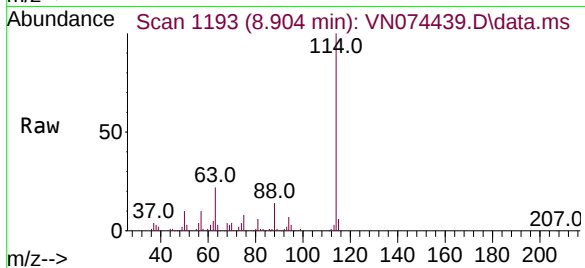
Tgt Ion:114 Resp: 389220

Ion Ratio Lower Upper

114 100

63 22.2 0.0 47.6

88 14.0 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.167 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074439.D

Acq: 13 Sep 2022 17:41

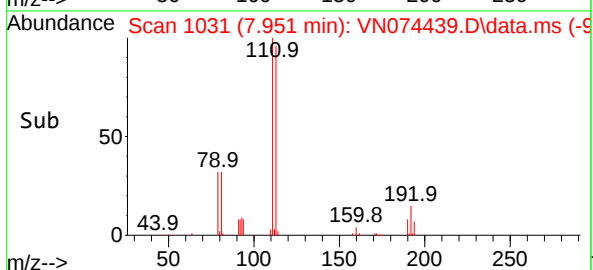
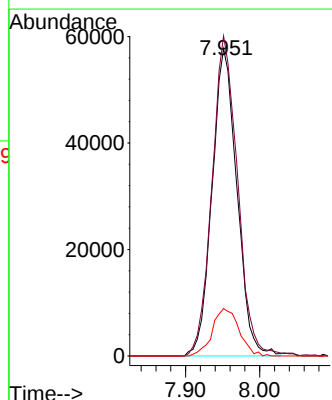
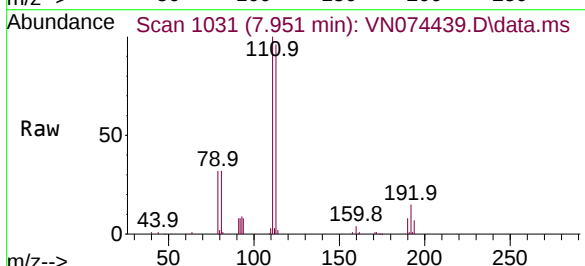
Tgt Ion:113 Resp: 134447

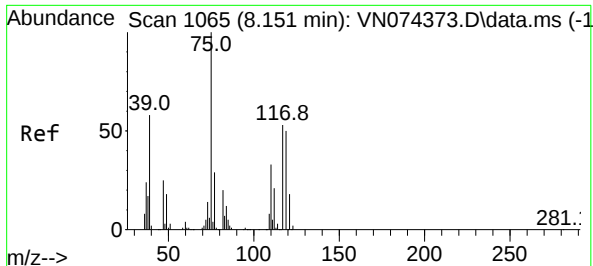
Ion Ratio Lower Upper

113 100

111 107.1 83.0 124.4

192 16.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.877 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN074439.D

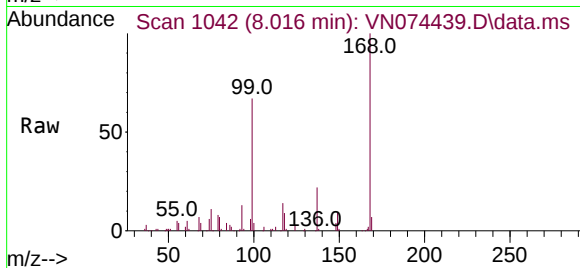
Acq: 13 Sep 2022 17:41

Instrument :

MSVOA_N

ClientSampleId :

BR-03D-479.5-499.5-090122



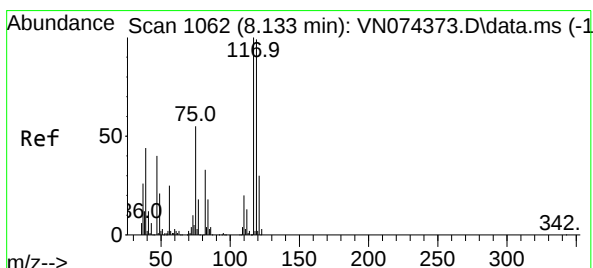
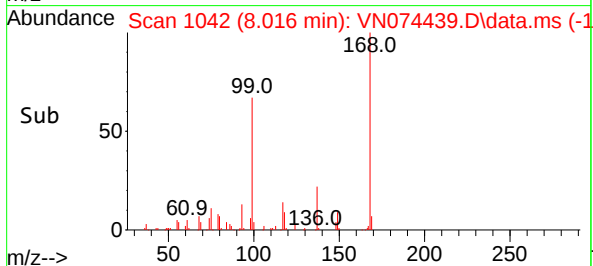
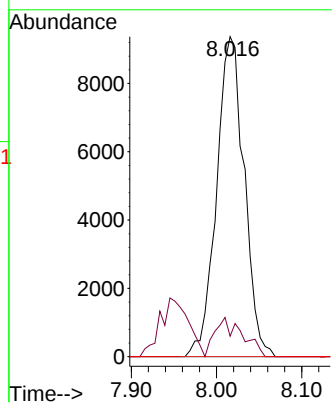
Tgt Ion: 75 Resp: 21113

Ion Ratio Lower Upper

75 100

110 12.2 16.4 49.1#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 5.489 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.118 min

Lab File: VN074439.D

Acq: 13 Sep 2022 17:41

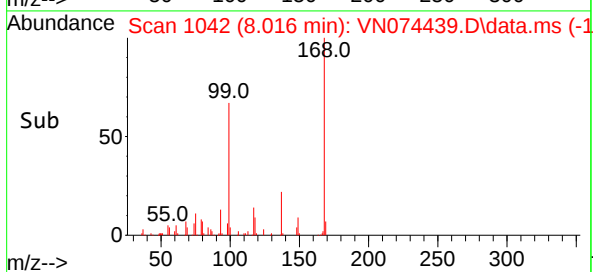
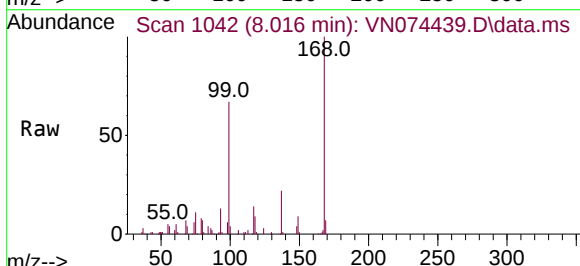
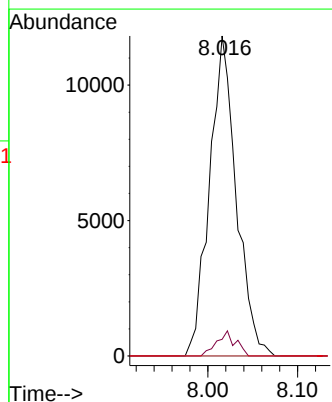
Tgt Ion: 117 Resp: 24530

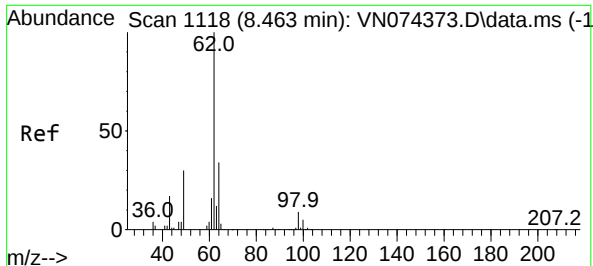
Ion Ratio Lower Upper

117 100

119 5.2 78.8 118.2#

121 0.0 24.1 36.1#

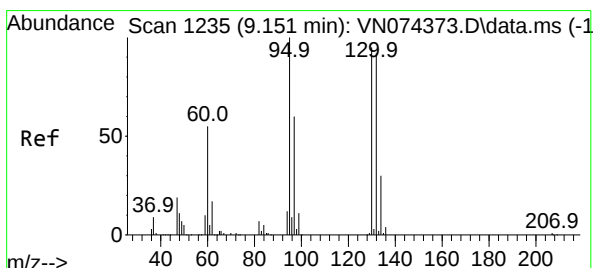
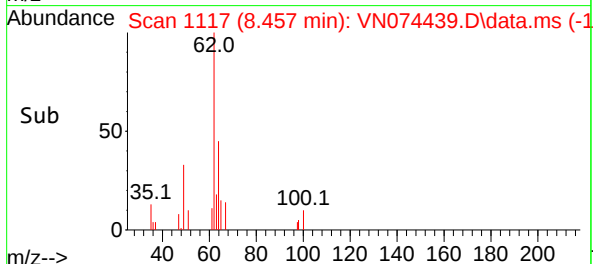
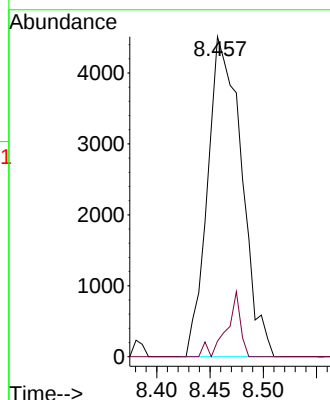
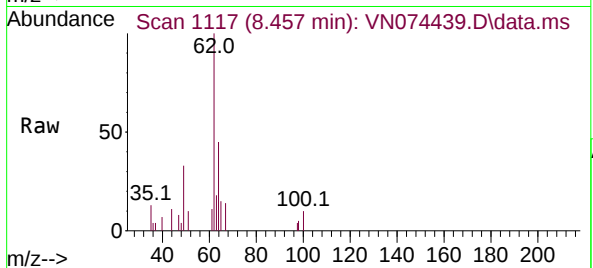




#42
1,2-Dichloroethane
Concen: 1.972 ug/l
RT: 8.457 min Scan# 1117
Delta R.T. -0.006 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

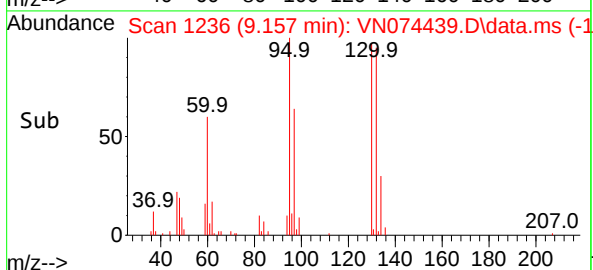
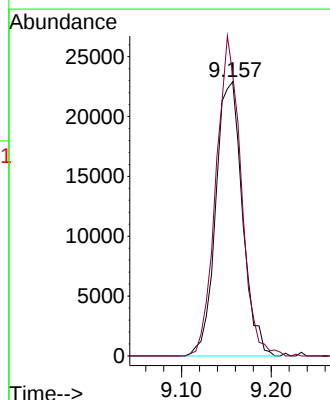
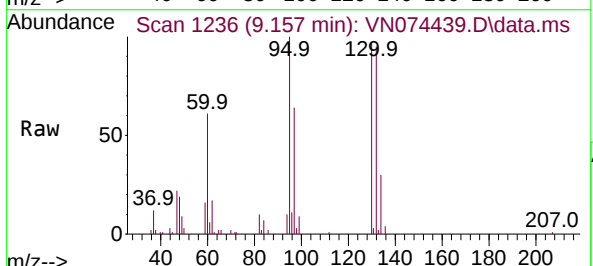
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-090122

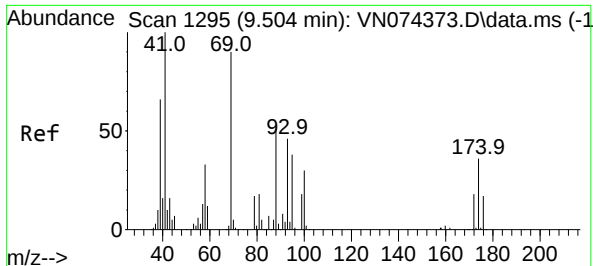
Tgt Ion: 62 Resp: 9990
Ion Ratio Lower Upper
62 100
98 8.4 0.0 17.6



#44
Trichloroethene
Concen: 15.931 ug/l
RT: 9.157 min Scan# 1236
Delta R.T. 0.006 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 130 Resp: 47336
Ion Ratio Lower Upper
130 100
95 102.6 0.0 210.0

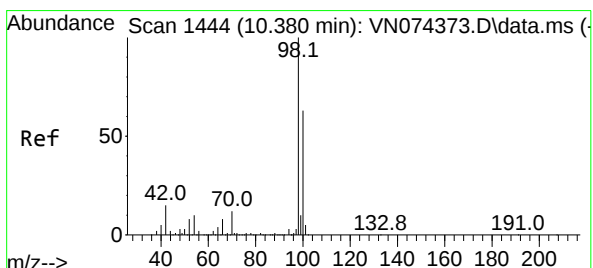
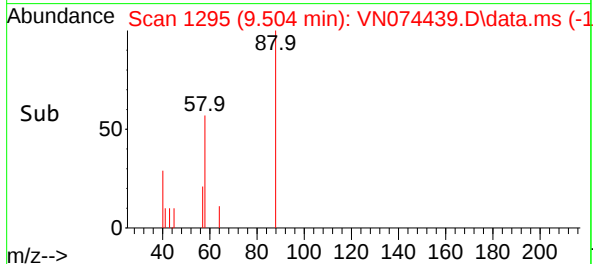
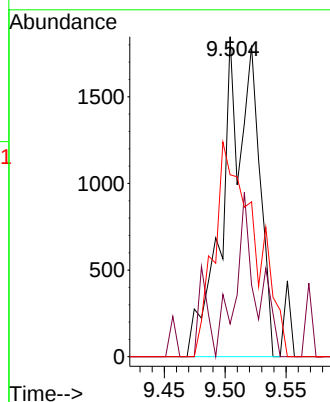
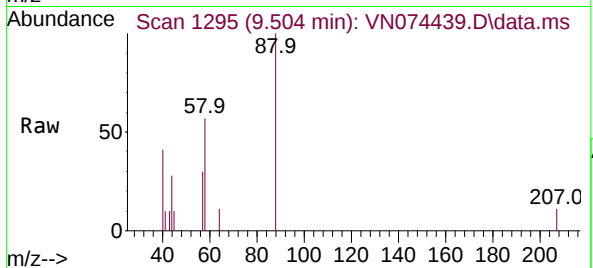




#49
1,4-Dioxane
Concen: 36.760 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. 0.000 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

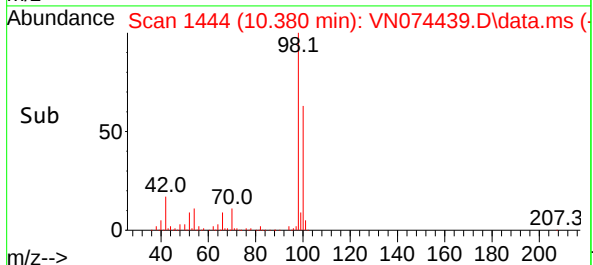
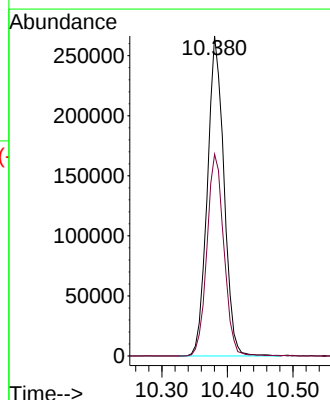
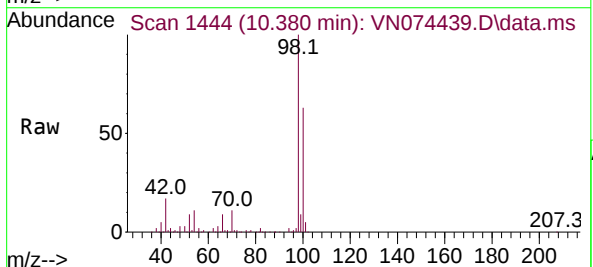
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-090122

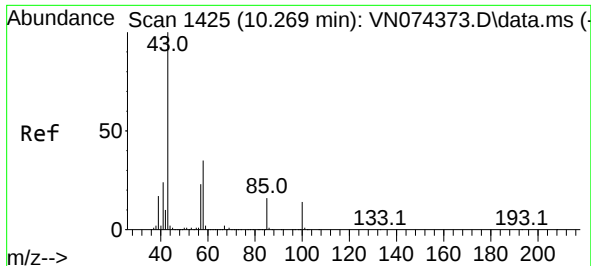
Tgt Ion: 88 Resp: 3506
Ion Ratio Lower Upper
88 100
43 32.7 26.9 40.3
58 82.3 52.7 79.1#



#50
Toluene-d8
Concen: 45.790 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 98 Resp: 468814
Ion Ratio Lower Upper
98 100
100 64.2 50.6 76.0





#51

4-Methyl-2-Pentanone

Concen: 0.311 ug/l

RT: 10.280 min Scan# 1427

Delta R.T. 0.012 min

Lab File: VN074439.D

Acq: 13 Sep 2022 17:41

Instrument :

MSVOA_N

ClientSampleId :

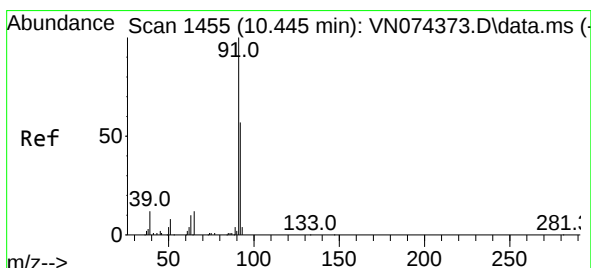
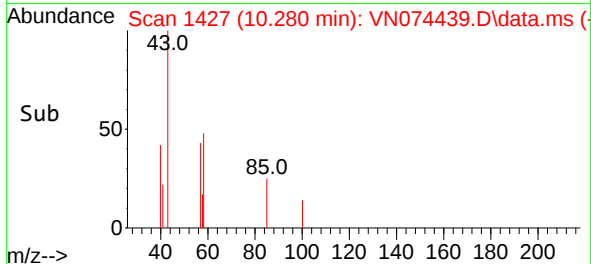
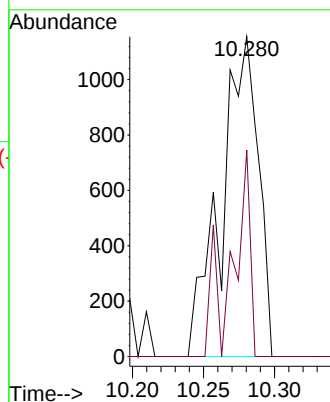
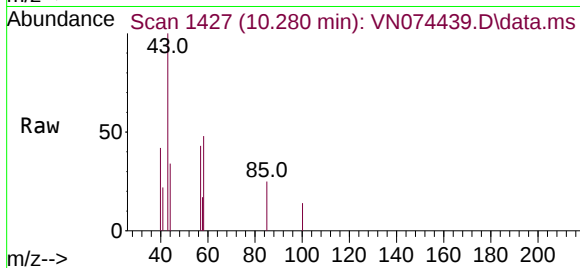
BR-03D-479.5-499.5-090122

Tgt Ion: 43 Resp: 2088

Ion Ratio Lower Upper

43 100

58 23.7 29.0 43.6#



#52

Toluene

Concen: 5.967 ug/l

RT: 10.445 min Scan# 1455

Delta R.T. 0.000 min

Lab File: VN074439.D

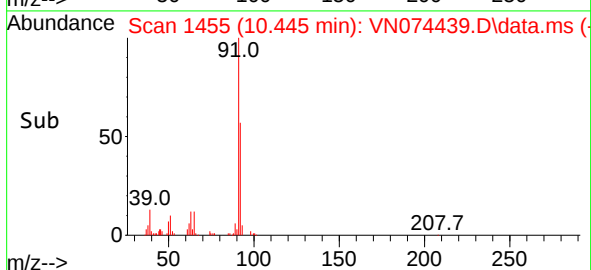
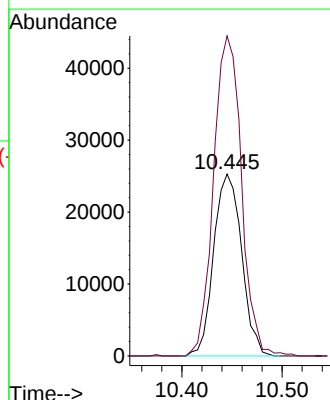
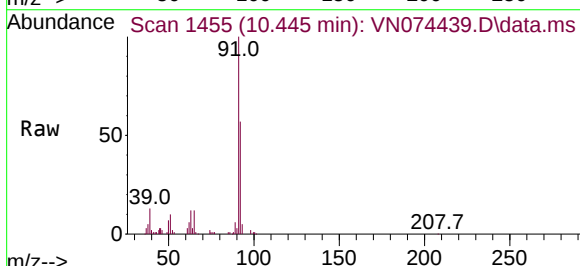
Acq: 13 Sep 2022 17:41

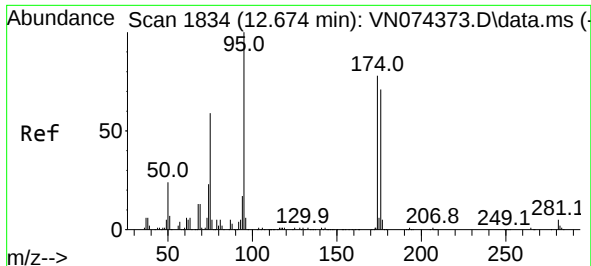
Tgt Ion: 92 Resp: 48910

Ion Ratio Lower Upper

92 100

91 175.9 139.8 209.6

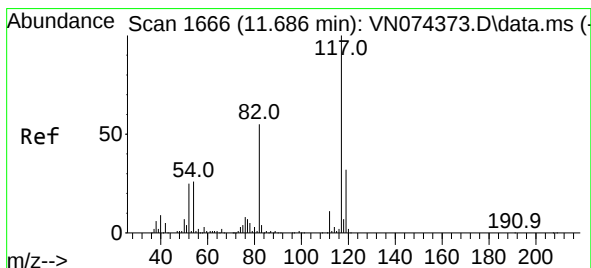
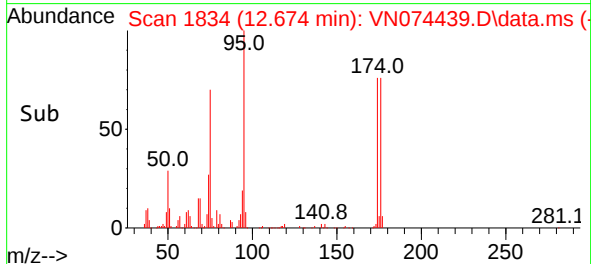
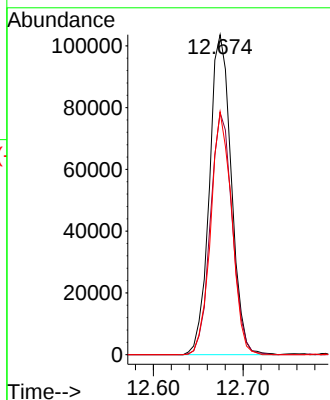
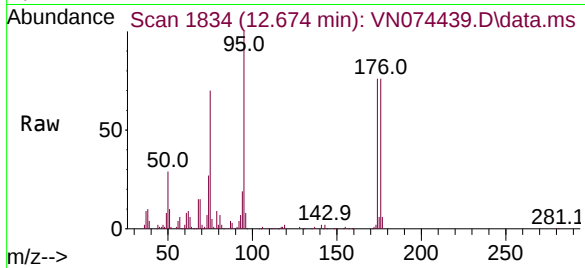




#62
4-Bromofluorobenzene
Concen: 47.230 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

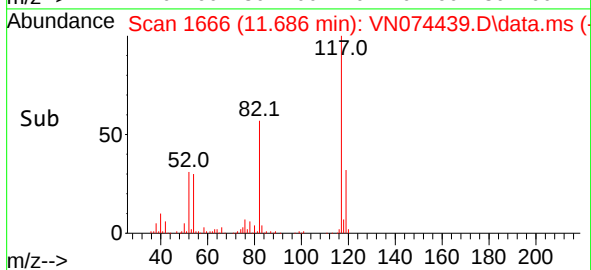
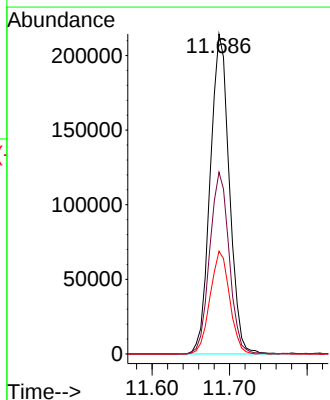
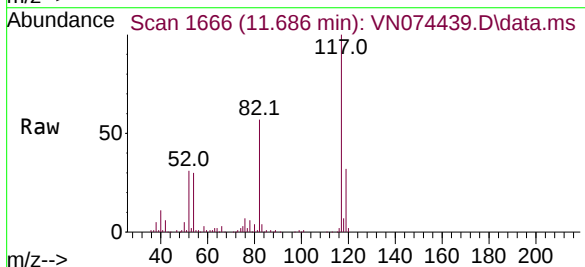
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-090122

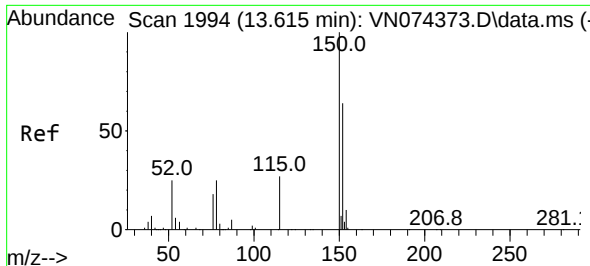
Tgt Ion: 95 Resp: 175562
Ion Ratio Lower Upper
95 100
174 75.3 0.0 150.6
176 72.7 0.0 143.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN074439.D
Acq: 13 Sep 2022 17:41

Tgt Ion: 117 Resp: 367264
Ion Ratio Lower Upper
117 100
82 56.8 44.3 66.5
119 32.1 25.5 38.3

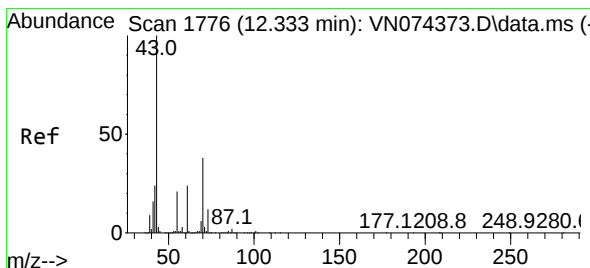
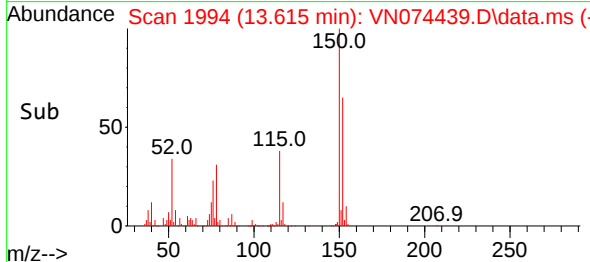
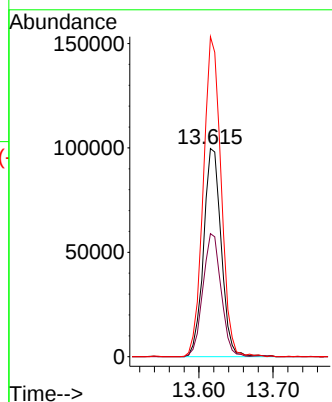
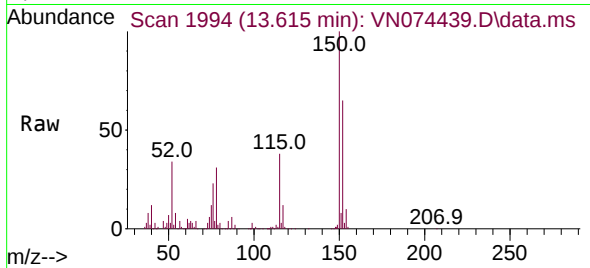




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.615 min Scan# 1994
 Delta R.T. 0.000 min
 Lab File: VN074439.D
 Acq: 13 Sep 2022 17:41

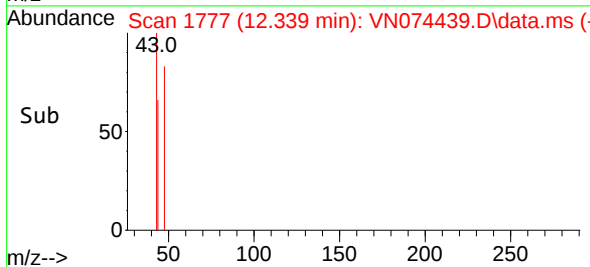
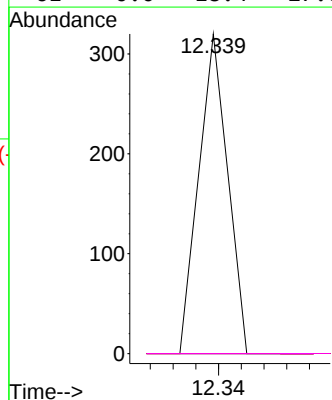
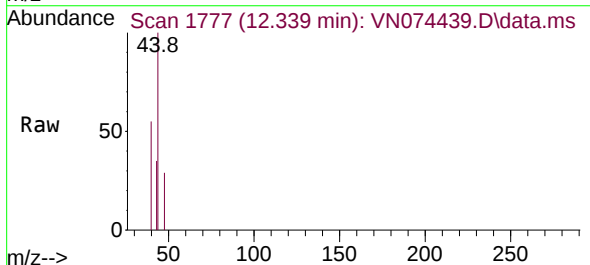
Instrument :
 MSVOA_N
 ClientSampleId :
 BR-03D-479.5-499.5-090122

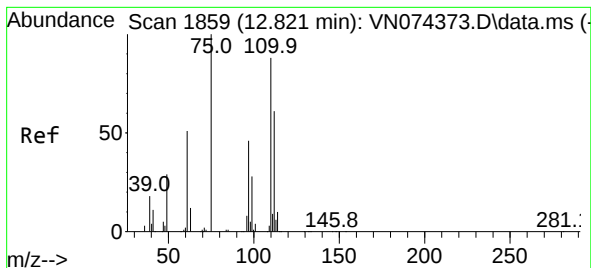
Tgt Ion:152 Resp: 165275
 Ion Ratio Lower Upper
 152 100
 115 60.8 32.0 96.0
 150 154.6 0.0 359.6



#74
 N-ethyl acetate
 Concen: Below Cal
 RT: 12.339 min Scan# 1777
 Delta R.T. 0.006 min
 Lab File: VN074439.D
 Acq: 13 Sep 2022 17:41

Tgt Ion: 43 Resp: 113
 Ion Ratio Lower Upper
 43 100
 70 0.0 31.4 47.0#
 55 0.0 17.0 25.6#
 61 0.0 18.4 27.6#





#76

1,2,3-Trichloropropane

Concen: 27.637 ug/l

RT: 12.674 min Scan# 1834

Delta R.T. -0.147 min

Lab File: VN074439.D

Acq: 13 Sep 2022 17:41

Instrument :

MSVOA_N

ClientSampleId :

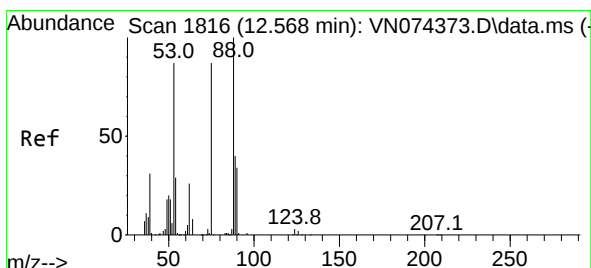
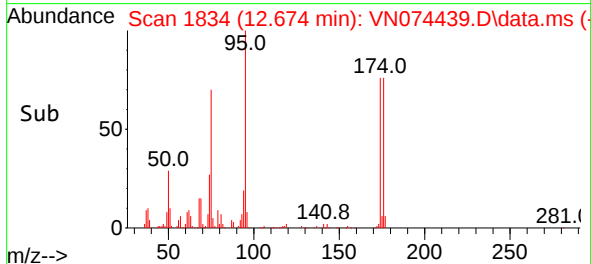
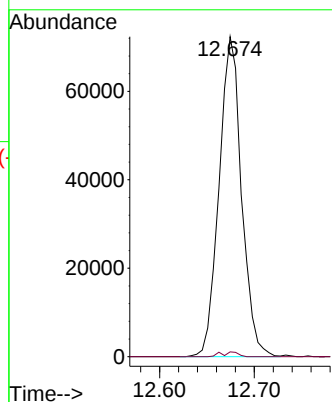
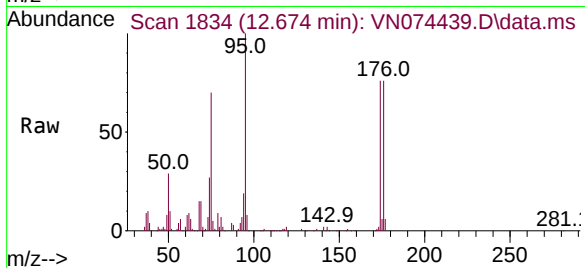
BR-03D-479.5-499.5-090122

Tgt Ion: 75 Resp: 119409

Ion Ratio Lower Upper

75 100

77 1.1 78.9 236.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.603 ug/l

RT: 12.674 min Scan# 1834

Delta R.T. 0.106 min

Lab File: VN074439.D

Acq: 13 Sep 2022 17:41

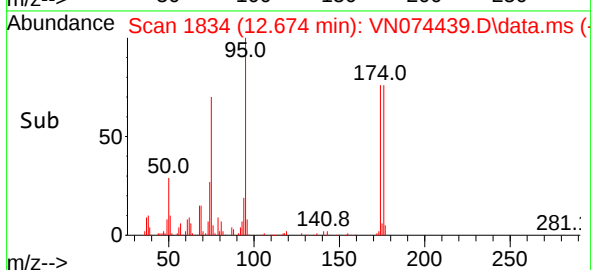
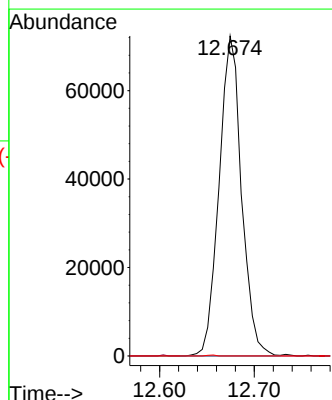
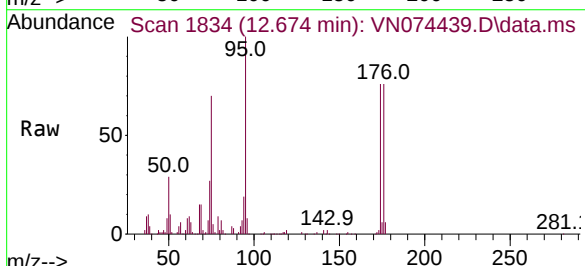
Tgt Ion: 75 Resp: 119409

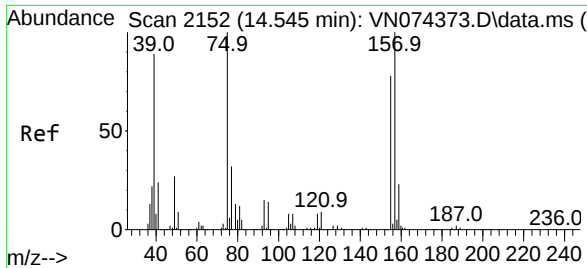
Ion Ratio Lower Upper

75 100

53 0.0 82.2 123.2#

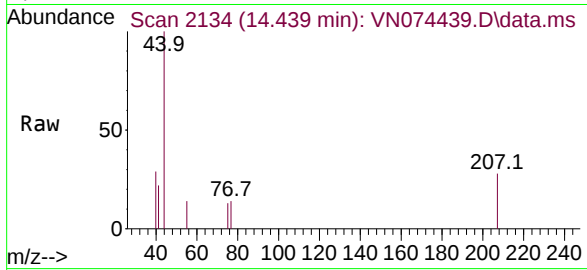
89 0.1 37.7 56.5#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.439 min Scan# 21
 Delta R.T. -0.106 min
 Lab File: VN074439.D
 Acq: 13 Sep 2022 17:41

Instrument :
 MSVOA_N
 ClientSampleId :
 BR-03D-479.5-499.5-090122



Tgt Ion: 75 Resp: 55
 Ion Ratio Lower Upper
 75 100
 155 0.0 36.6 109.9#
 157 0.0 46.2 138.5#

