

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022324\
 Data File : VN081172.D
 Acq On : 23 Feb 2024 20:33
 Operator : JC\MD
 Sample : P1574-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-2

Quant Time: Feb 23 22:05:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

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

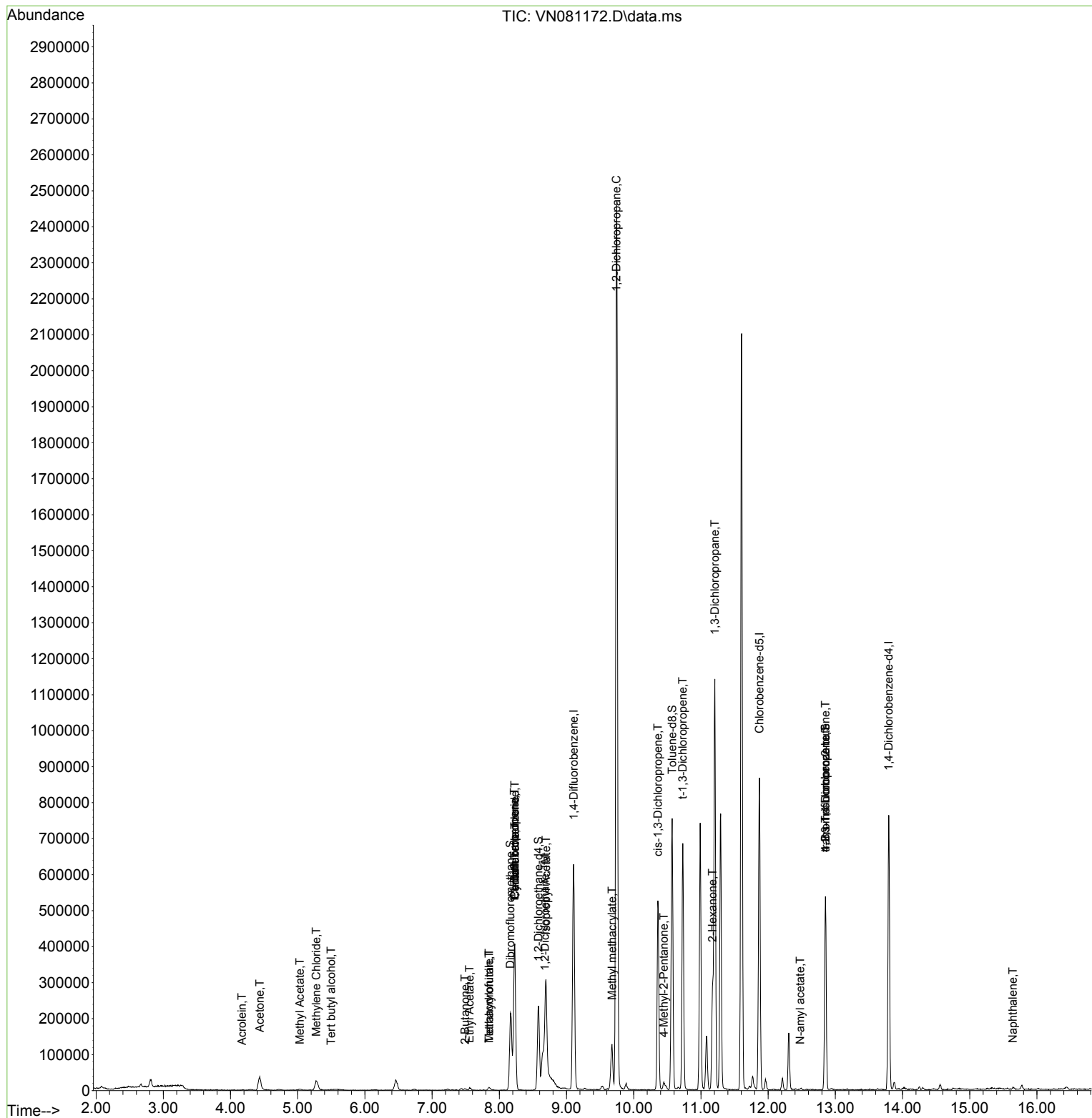
Internal Standards						
1) Pentafluorobenzene	8.230	168	281692	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	541928	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	492503	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	189865	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	181160	52.468	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.940%	
35) Dibromofluoromethane	8.165	113	157459	51.383	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.760%	
50) Toluene-d8	10.571	98	505395	46.434	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 92.860%	
62) 4-Bromofluorobenzene	12.853	95	185054	45.249	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 90.500%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1354	Below Cal	#	88
6) Chloroethane	3.112	64	221	Below Cal	#	42
11) Tert butyl alcohol	5.495	59	483	0.761	ug/l #	72
13) Acrolein	4.171	56	619	1.819	ug/l #	15
16) Acetone	4.436	43	66330	48.823	ug/l	99
18) Methyl Acetate	5.030	43	6042	1.823	ug/l #	84
20) Methylene Chloride	5.277	84	19288	4.645	ug/l #	94
25) 2-Butanone	7.489	43	6936	3.160	ug/l #	78
29) Tetrahydrofuran	7.847	42	6273	4.281	ug/l	98
31) Cyclohexane	8.230	56	7383	1.238	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	24852	4.734	ug/l #	52
37) Ethyl Acetate	7.559	43	8123	1.714	ug/l #	93
38) Carbon Tetrachloride	8.230	117	32507	6.120	ug/l #	19
41) Methacrylonitrile	7.847	41	3553	1.318	ug/l #	44
42) 1,2-Dichloroethane	8.677	62	1405	0.265	ug/l #	75
43) Isopropyl Acetate	8.694	43	475397	57.368	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	3128	0.823	ug/l #	42
48) Methyl methacrylate	9.677	41	7439	1.929	ug/l #	44
49) 1,4-Dioxane	9.688	88	130	Below Cal	#	18
51) 4-Methyl-2-Pentanone	10.447	43	23918	5.017	ug/l #	76
53) t-1,3-Dichloropropene	10.730	75	2114	0.363	ug/l #	82
54) cis-1,3-Dichloropropene	10.359	75	95961	15.237	ug/l #	61
57) 1,3-Dichloropropane	11.206	76	12428	1.943	ug/l #	43
59) 2-Hexanone	11.171	43	215743	57.086	ug/l #	26
74) N-amyl acetate	12.476	43	2536	0.361	ug/l #	50
76) 1,2,3-Trichloropropane	12.853	75	99892	23.156	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	99892	59.602	ug/l #	14
95) Naphthalene	15.641	128	4598	0.333	ug/l #	95

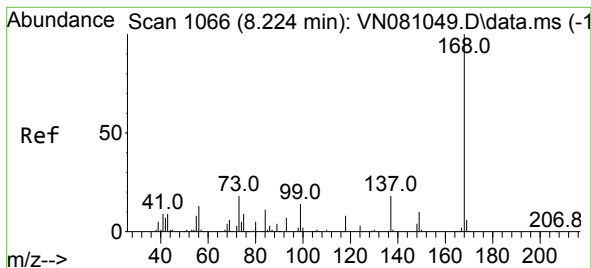
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 16 23:45:20 2024
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

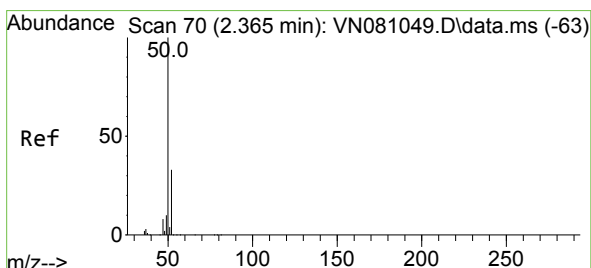
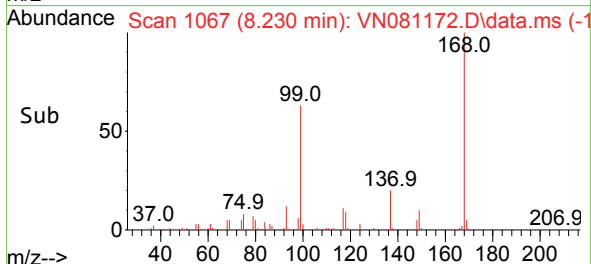
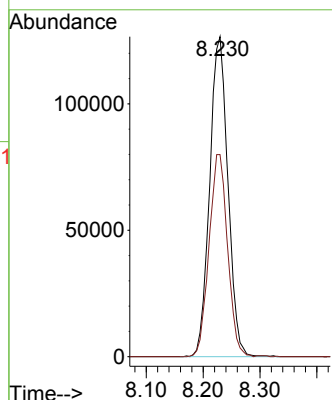
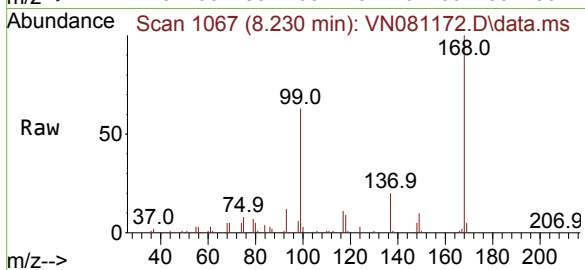
SB-2

Tgt Ion:168 Resp: 281692

Ion Ratio Lower Upper

168 100

99 63.1 59.9 89.9



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. -0.006 min

Lab File: VN081172.D

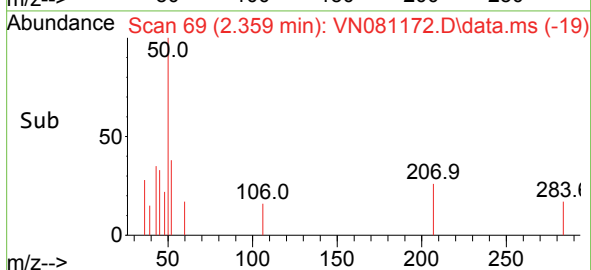
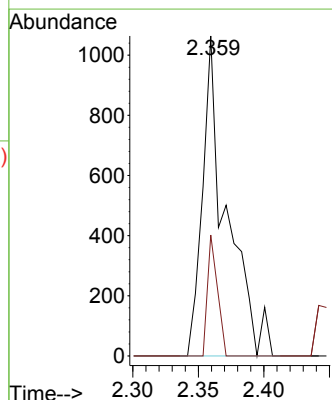
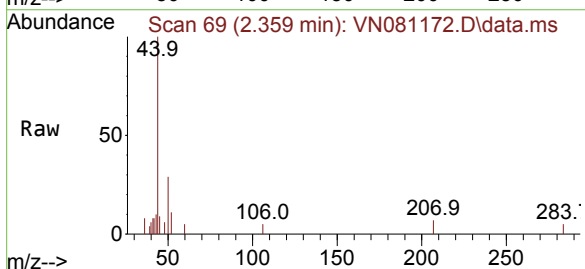
Acq: 23 Feb 2024 20:33

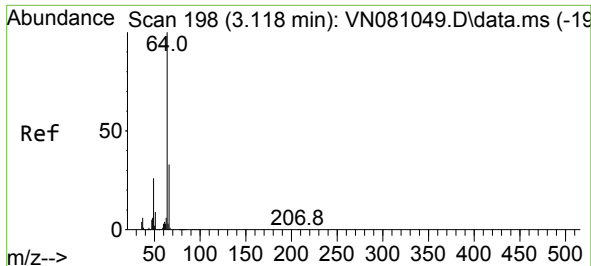
Tgt Ion: 50 Resp: 1354

Ion Ratio Lower Upper

50 100

52 37.8 25.0 37.4#

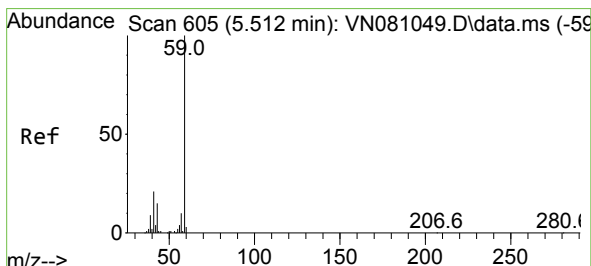
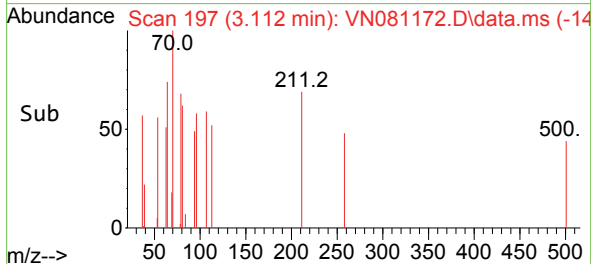
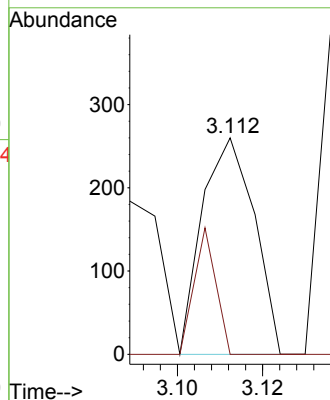
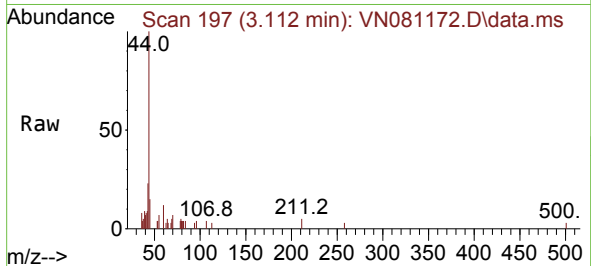




#6
Chloroethane
Concen: Below Cal
RT: 3.112 min Scan# 19
Delta R.T. -0.006 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

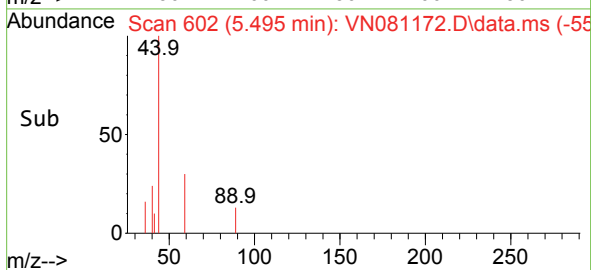
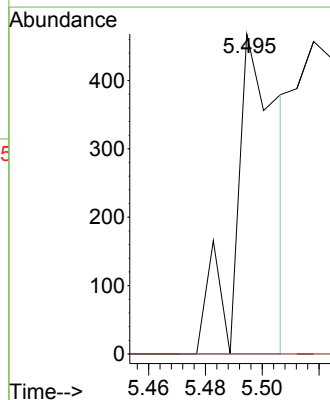
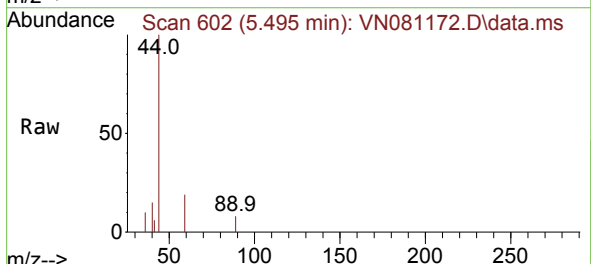
Instrument :
MSVOA_N
ClientSampleId :
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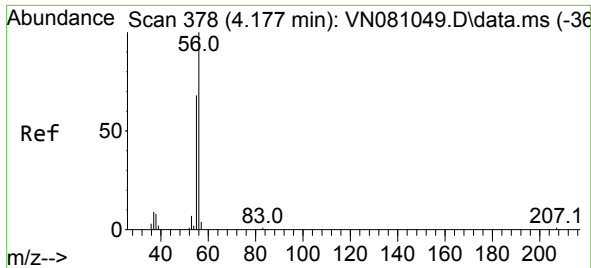
Tgt Ion: 64 Resp: 221
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 0.761 ug/l
RT: 5.495 min Scan# 602
Delta R.T. -0.018 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 59 Resp: 483
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

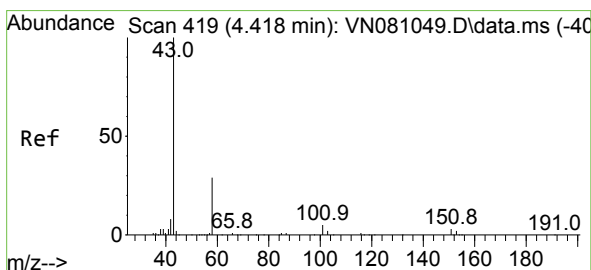
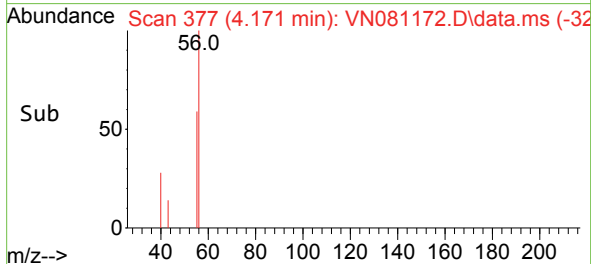
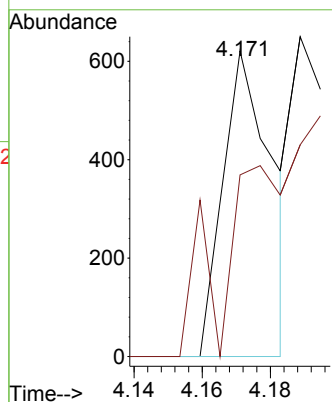
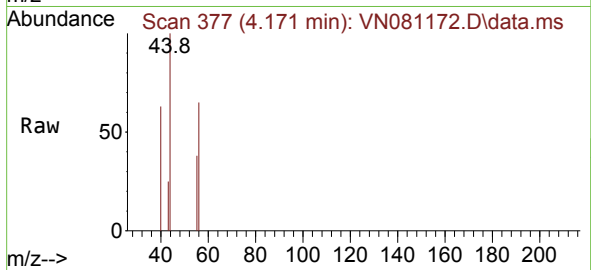




#13
Acrolein
Concen: 1.819 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

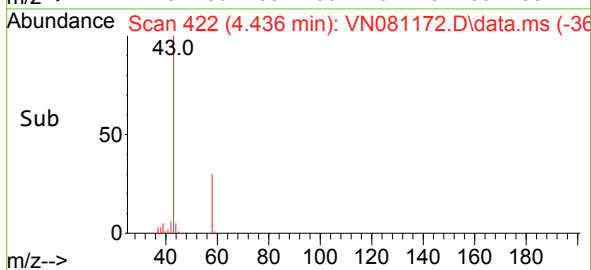
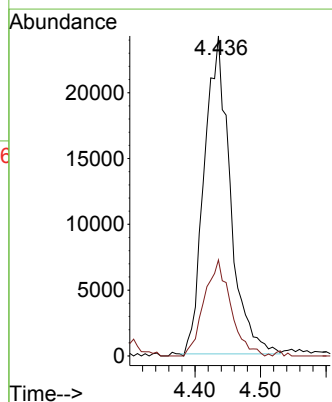
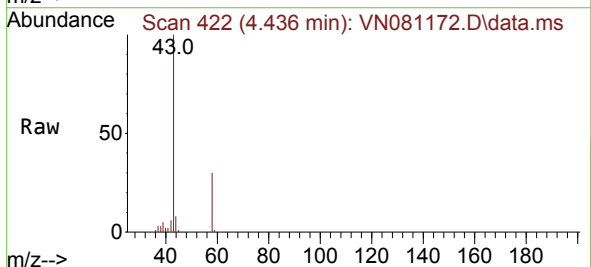
Instrument :
MSVOA_N
ClientSampleId :
SB-2

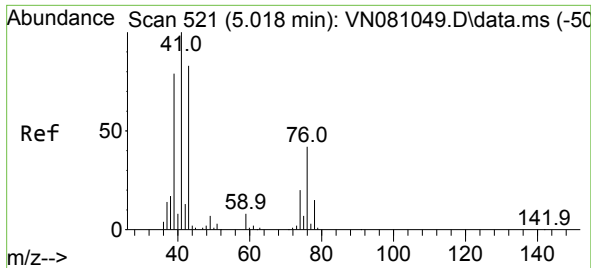
Tgt Ion: 56 Resp: 619
Ion Ratio Lower Upper
56 100
55 0.0 55.3 82.9#



#16
Acetone
Concen: 48.823 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 43 Resp: 66330
Ion Ratio Lower Upper
43 100
58 30.2 24.8 37.2

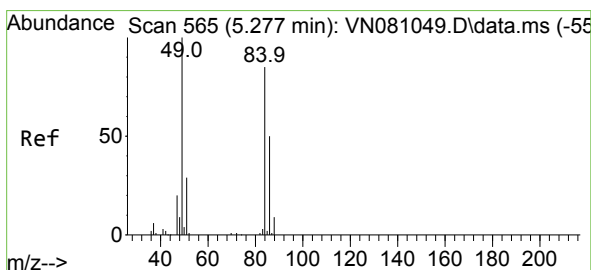
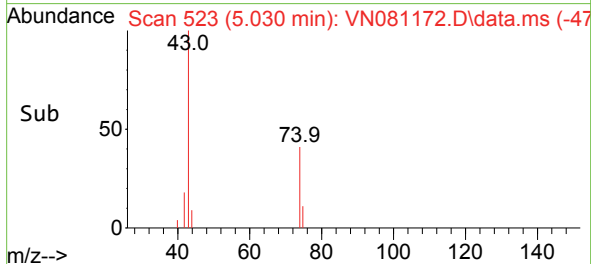
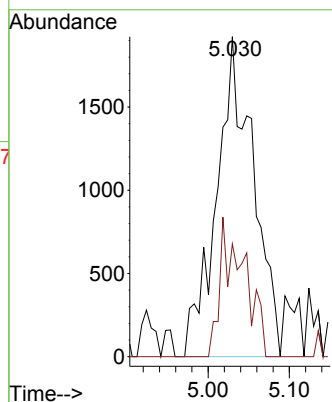
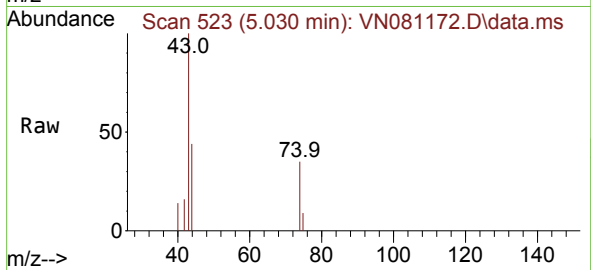




#18
Methyl Acetate
Concen: 1.823 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

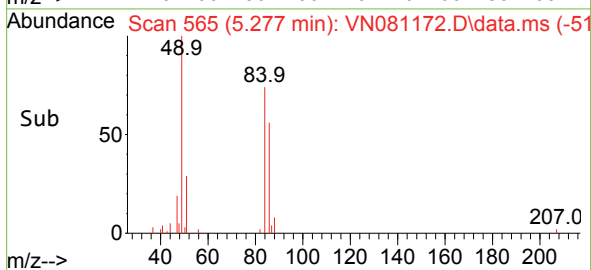
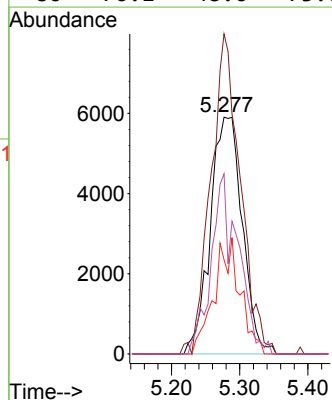
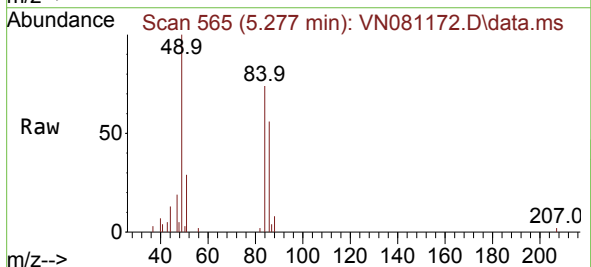
Instrument :
MSVOA_N
ClientSampleId :
SB-2

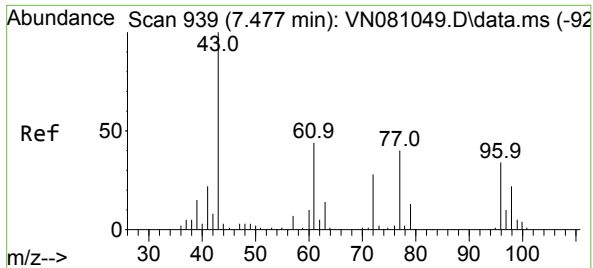
Tgt Ion: 43 Resp: 6042
Ion Ratio Lower Upper
43 100
74 29.0 17.3 25.9#



#20
Methylene Chloride
Concen: 4.645 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 84 Resp: 19288
Ion Ratio Lower Upper
84 100
49 135.2 108.1 162.1
51 39.8 32.9 49.3
86 76.1 48.6 73.0#

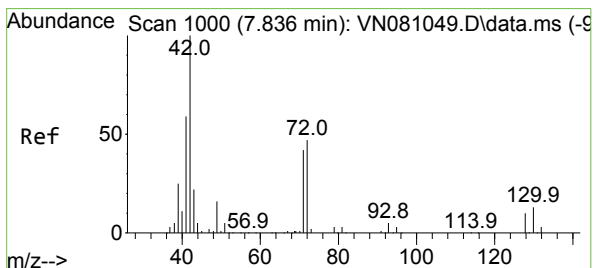
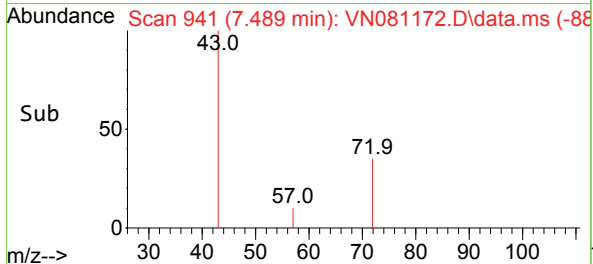
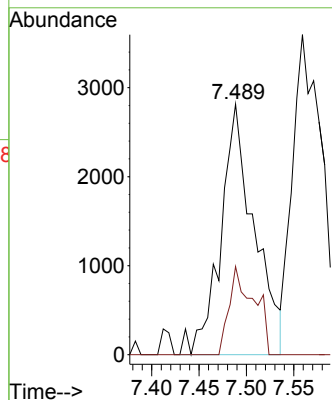
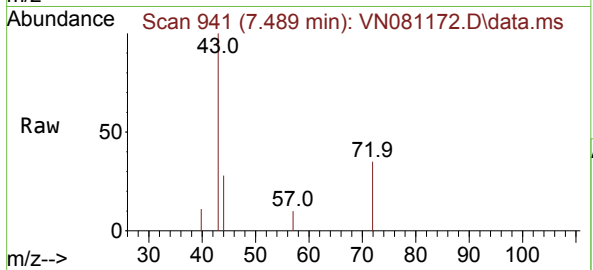




#25
2-Butanone
Concen: 3.160 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

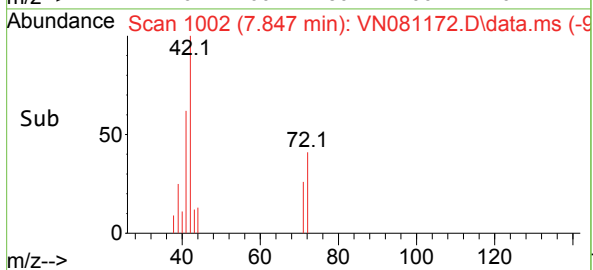
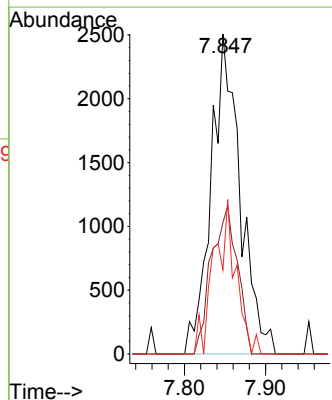
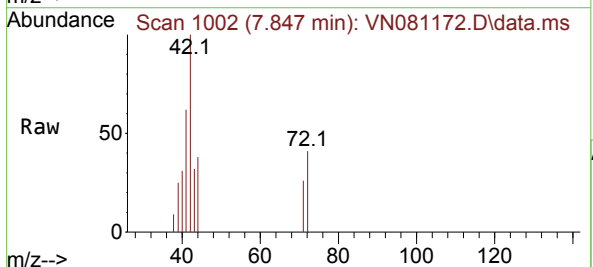
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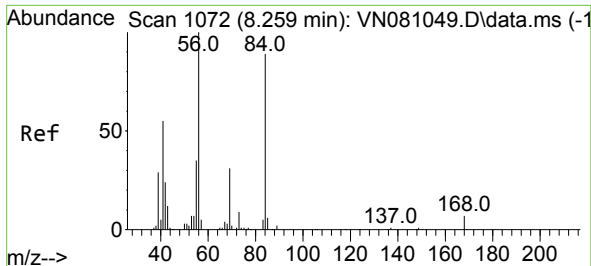
Tgt Ion: 43 Resp: 6936
Ion Ratio Lower Upper
43 100
72 35.2 19.5 29.3#



#29
Tetrahydrofuran
Concen: 4.281 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 42 Resp: 6273
Ion Ratio Lower Upper
42 100
72 41.1 31.1 46.7
71 35.9 28.3 42.5

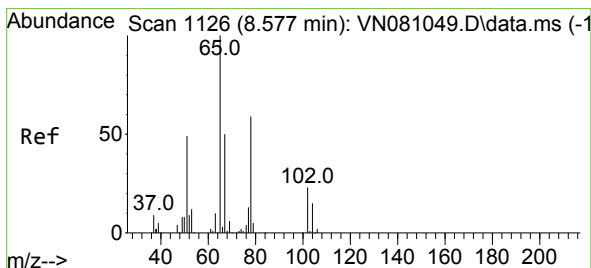
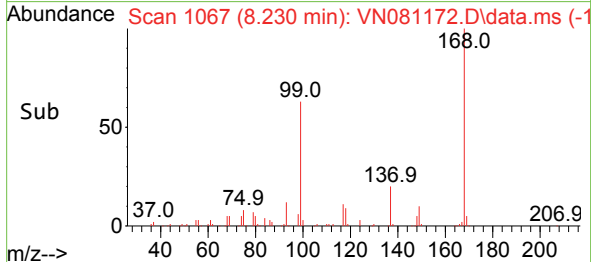
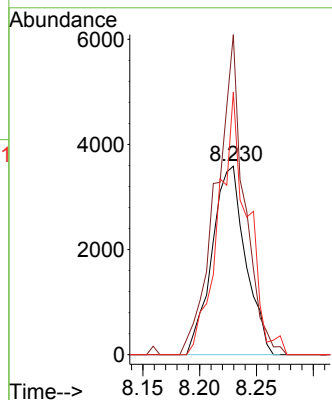
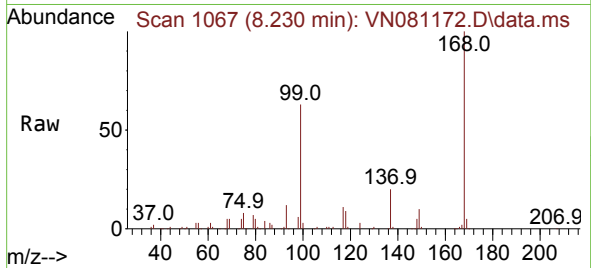




#31
Cyclohexane
Concen: 1.238 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

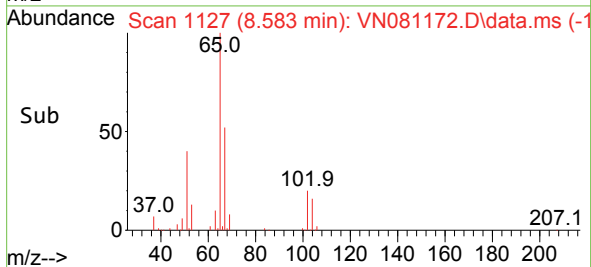
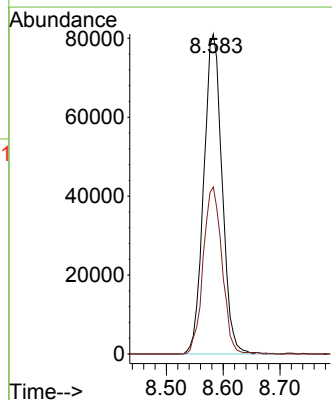
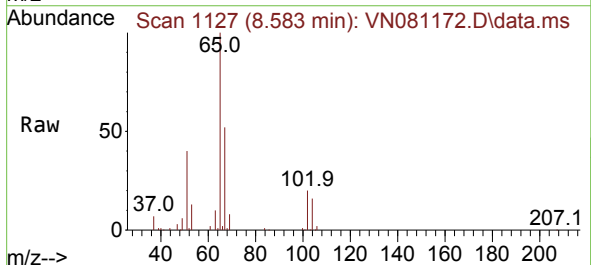
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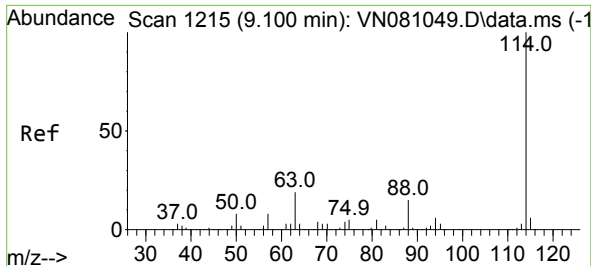
Tgt Ion: 56 Resp: 7383
Ion Ratio Lower Upper
56 100
69 169.8 20.1 30.1#
84 139.3 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 52.468 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 65 Resp: 181160
Ion Ratio Lower Upper
65 100
67 53.5 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

SB-2

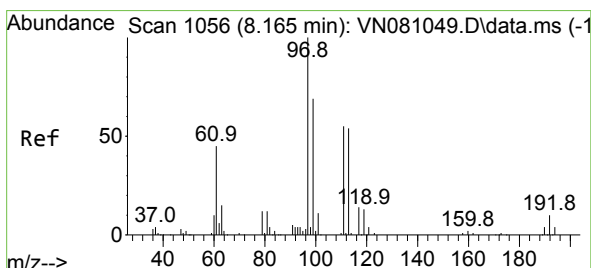
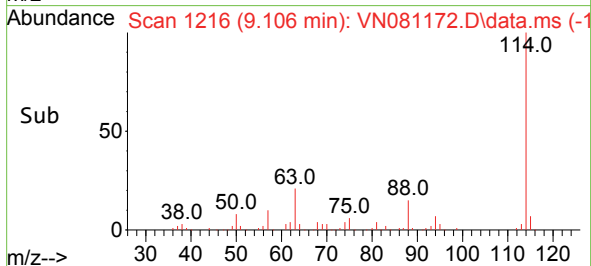
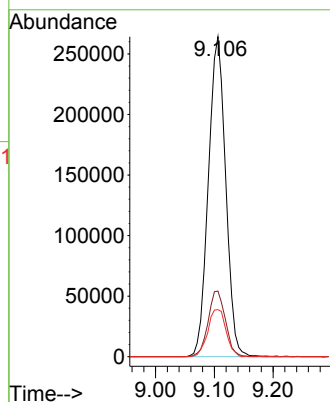
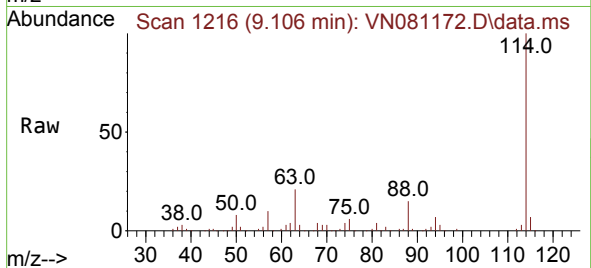
Tgt Ion:114 Resp: 541928

Ion Ratio Lower Upper

114 100

63 20.5 0.0 48.0

88 14.7 0.0 34.8



#35

Dibromofluoromethane

Concen: 51.383 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

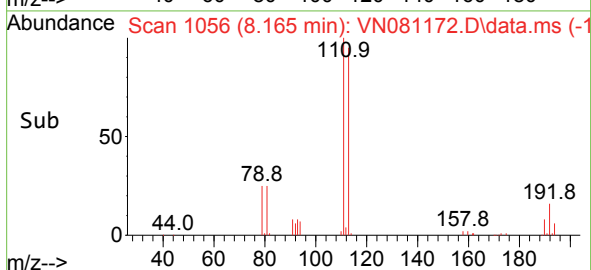
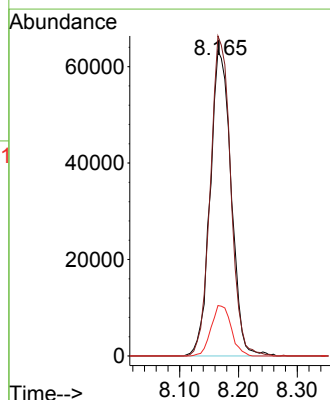
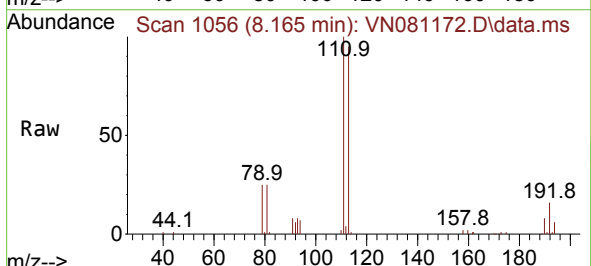
Tgt Ion:113 Resp: 157459

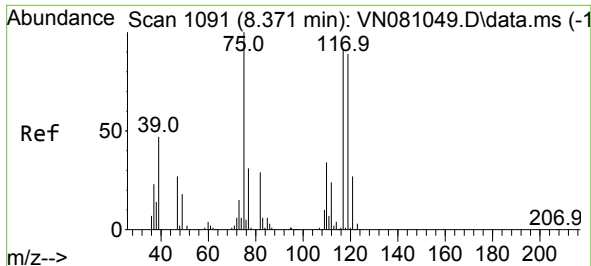
Ion Ratio Lower Upper

113 100

111 101.2 82.2 123.4

192 15.8 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.734 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

SB-2

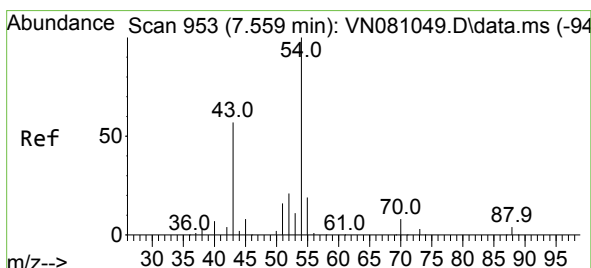
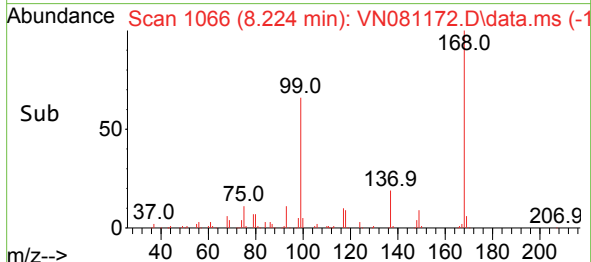
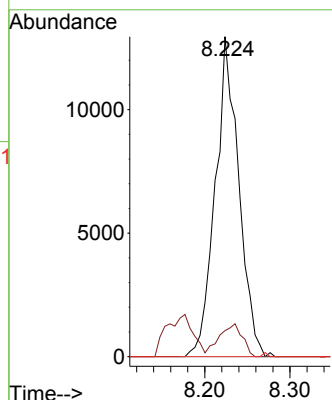
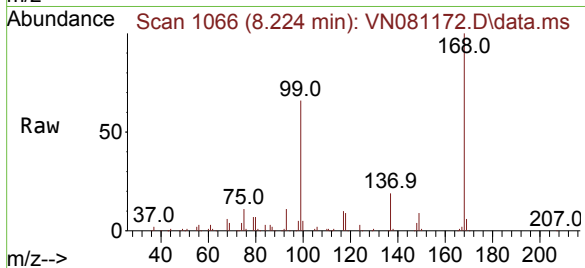
Tgt Ion: 75 Resp: 24852

Ion Ratio Lower Upper

75 100

110 10.1 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 1.714 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

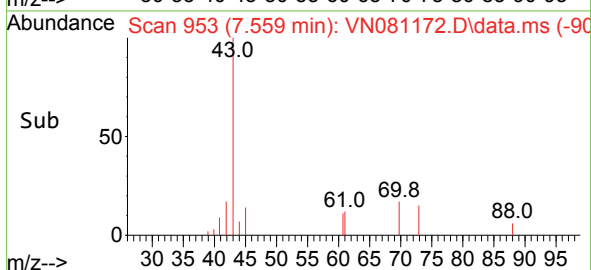
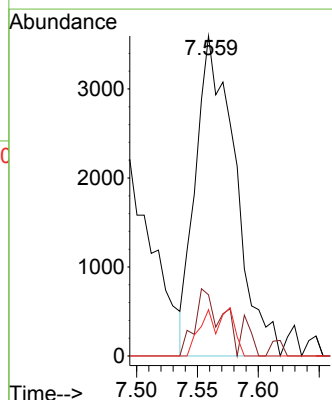
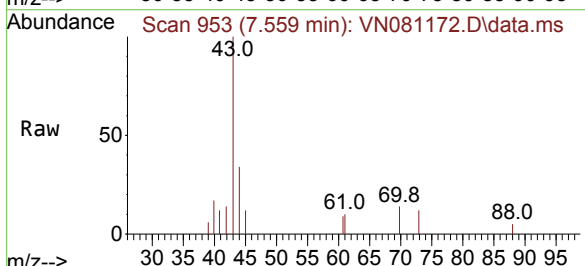
Tgt Ion: 43 Resp: 8123

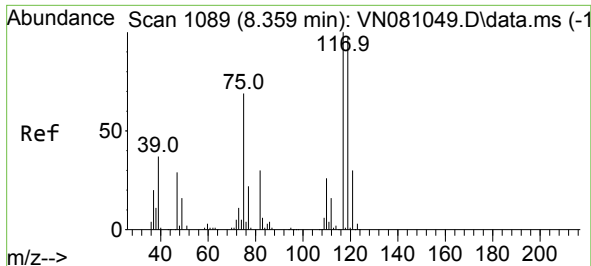
Ion Ratio Lower Upper

43 100

61 14.3 10.6 15.8

70 5.8 8.0 12.0#

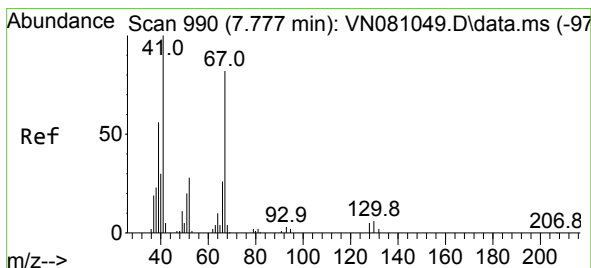
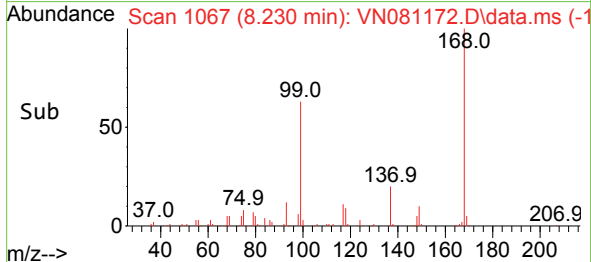
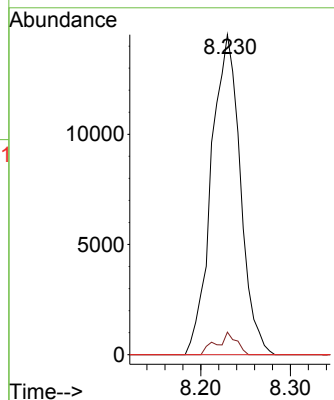
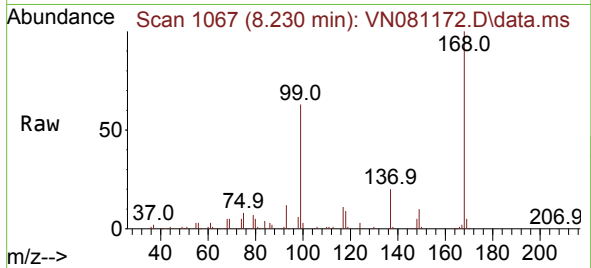




#38
Carbon Tetrachloride
Concen: 6.120 ug/l
RT: 8.230 min Scan# 1000
Delta R.T. -0.129 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

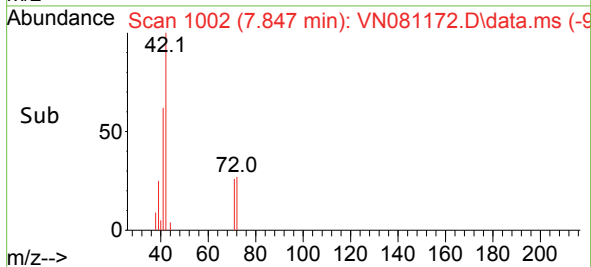
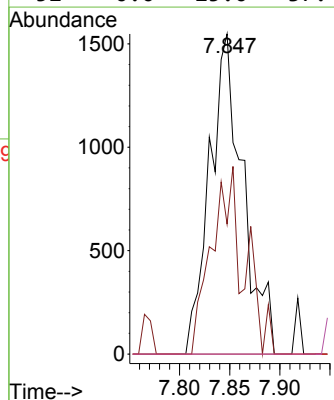
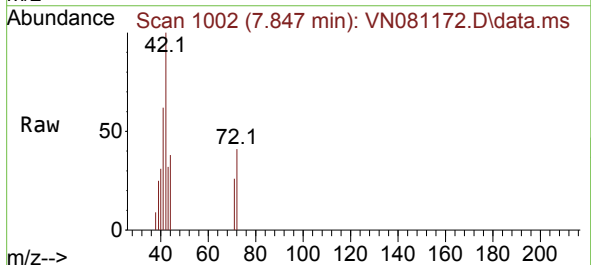
Instrument :
MSVOA_N
ClientSampleId :
SB-2

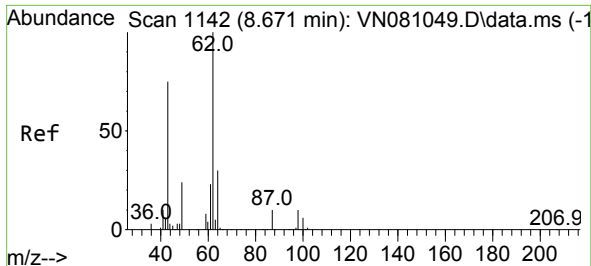
Tgt Ion:117 Resp: 32507
Ion Ratio Lower Upper
117 100
119 7.1 73.4 110.2#
121 0.0 24.4 36.6#



#41
Methacrylonitrile
Concen: 1.318 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.071 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 41 Resp: 3553
Ion Ratio Lower Upper
41 100
39 45.7 48.4 72.6#
67 0.0 56.8 85.2#
52 0.0 25.0 37.4#





#42

1,2-Dichloroethane

Concen: 0.265 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

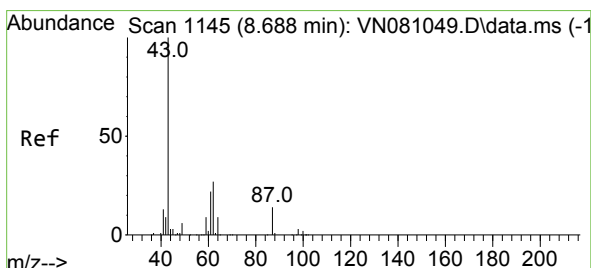
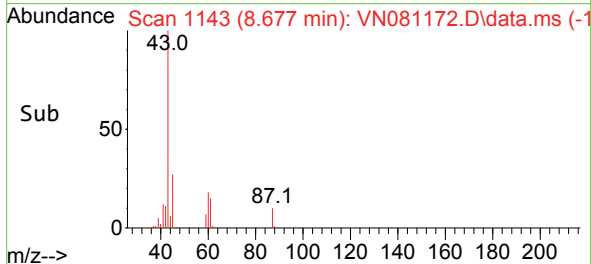
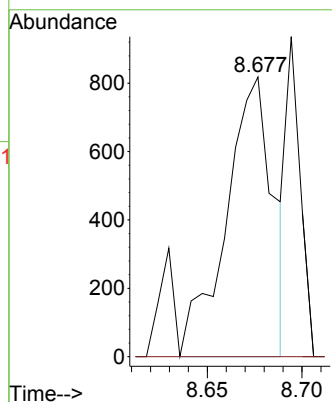
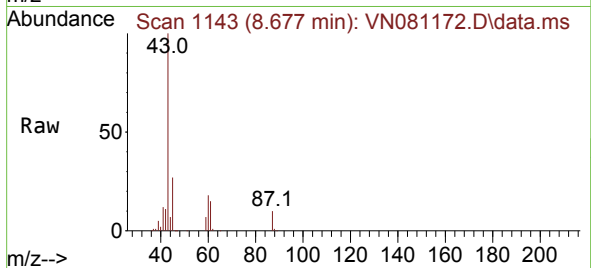
SB-2

Tgt Ion: 62 Resp: 1405

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 57.368 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

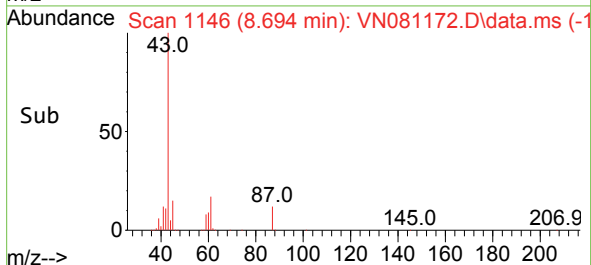
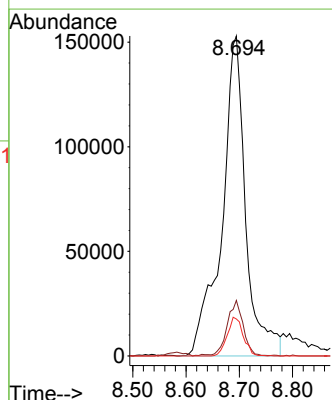
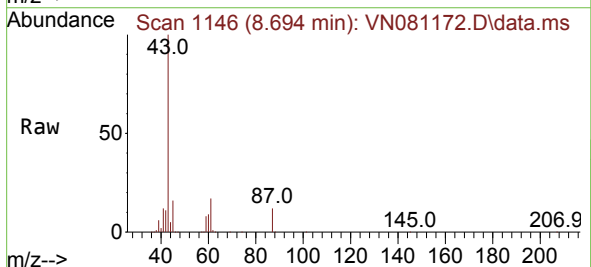
Tgt Ion: 43 Resp: 475397

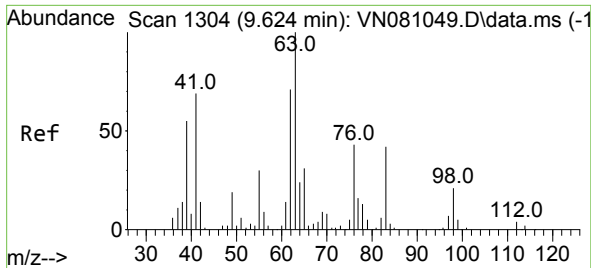
Ion Ratio Lower Upper

43 100

61 11.6 19.9 29.9#

87 8.1 9.0 13.6#





#45

1,2-Dichloropropane

Concen: 0.823 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

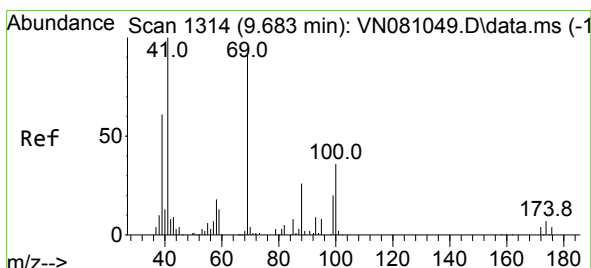
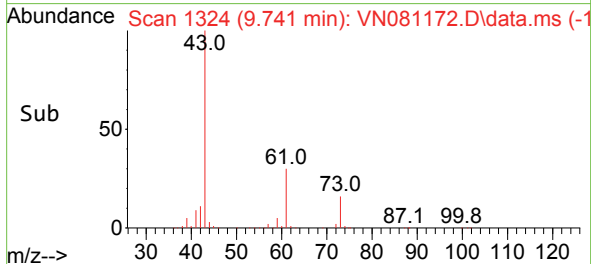
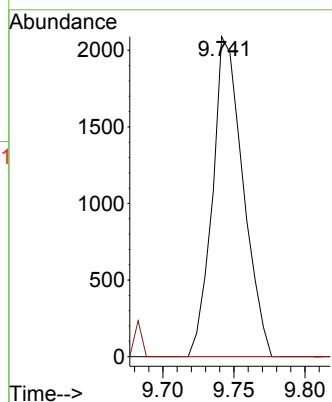
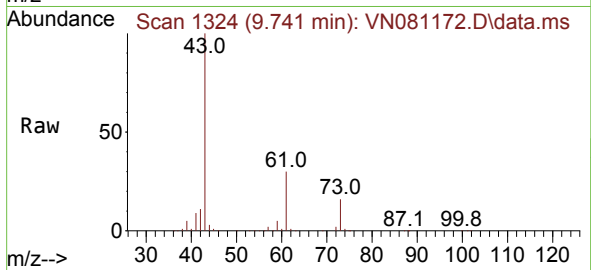
SB-2

Tgt Ion: 63 Resp: 3128

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.929 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.006 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

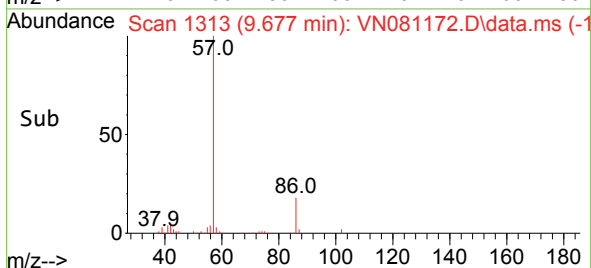
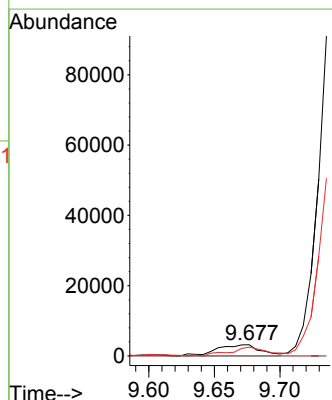
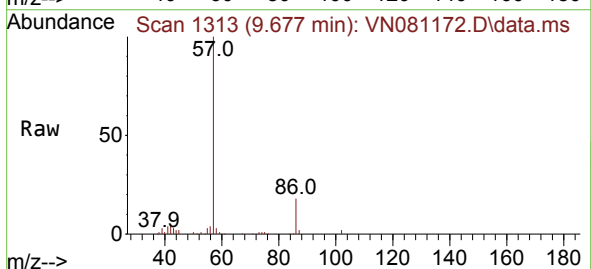
Tgt Ion: 41 Resp: 7439

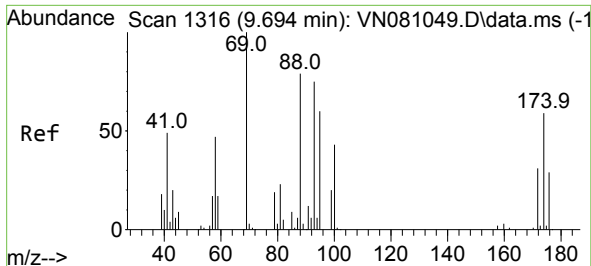
Ion Ratio Lower Upper

41 100

69 0.0 62.2 93.2#

39 68.8 47.6 71.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.688 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

SB-2

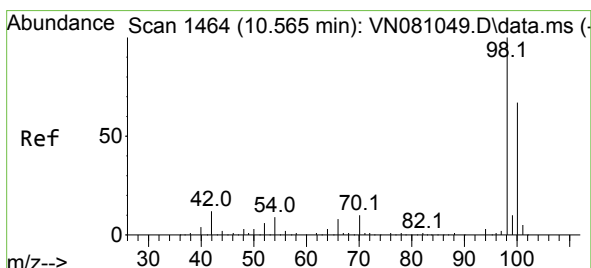
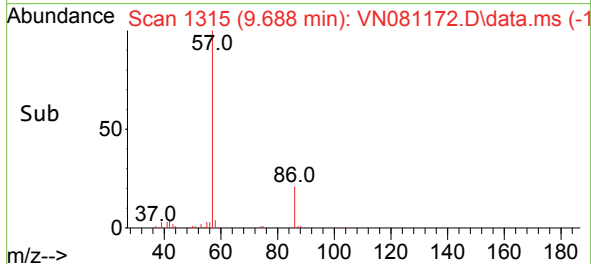
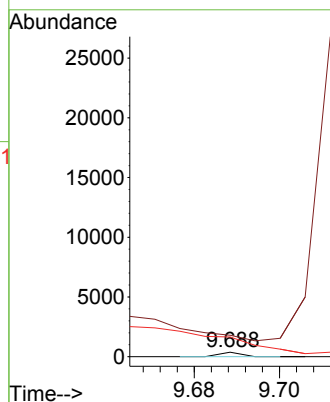
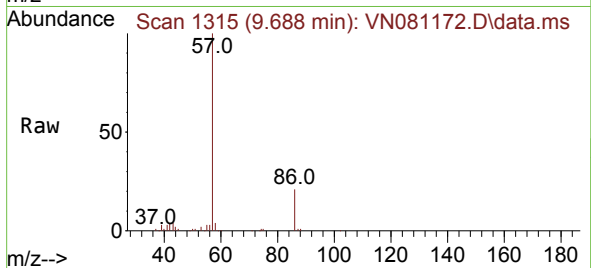
Tgt Ion: 88 Resp: 130

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 46.434 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081172.D

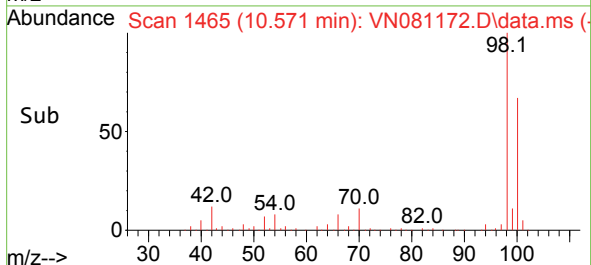
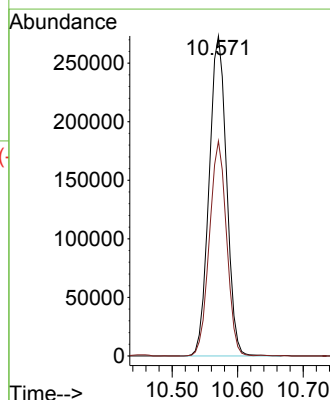
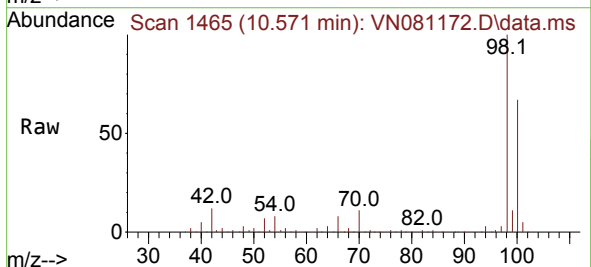
Acq: 23 Feb 2024 20:33

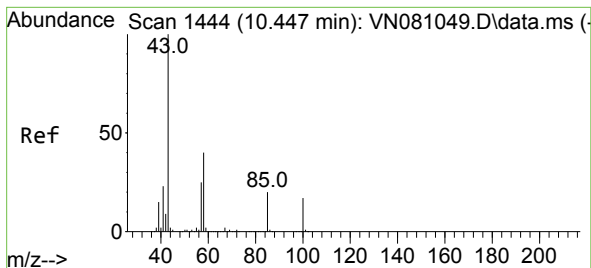
Tgt Ion: 98 Resp: 505395

Ion Ratio Lower Upper

98 100

100 65.9 51.4 77.0

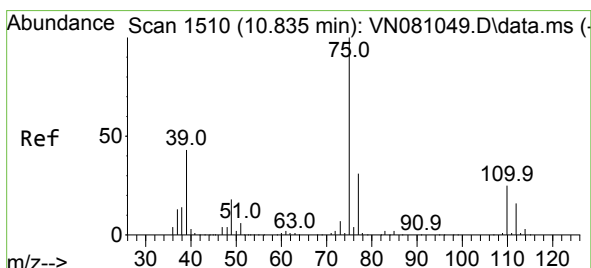
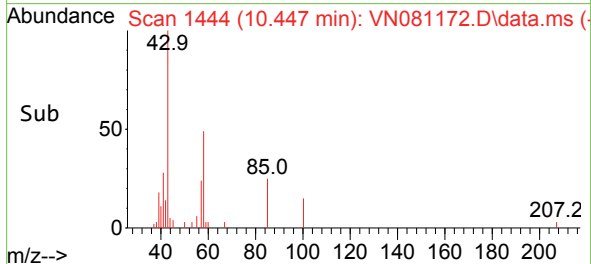
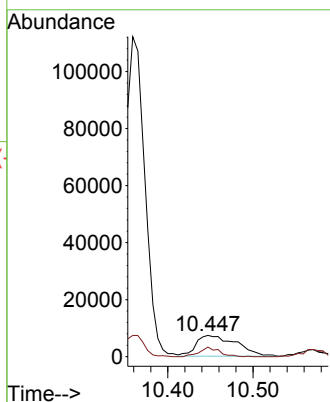
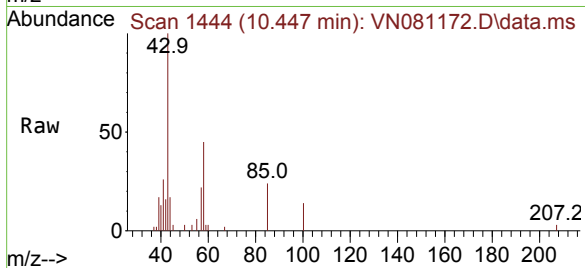




#51
4-Methyl-2-Pentanone
Concen: 5.017 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

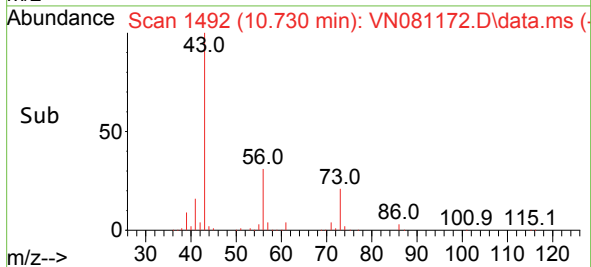
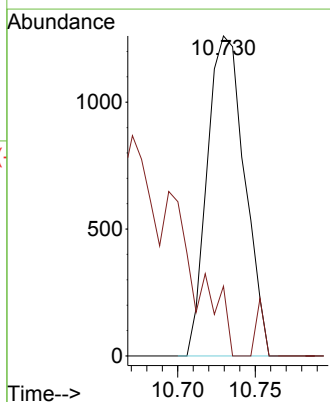
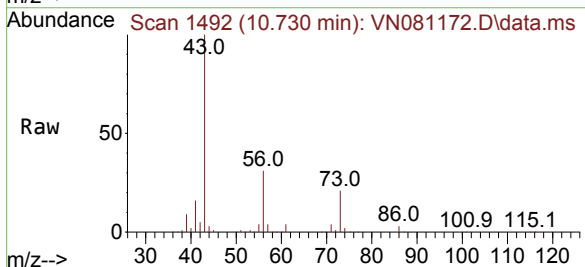
Instrument :
MSVOA_N
ClientSampleId :
SB-2

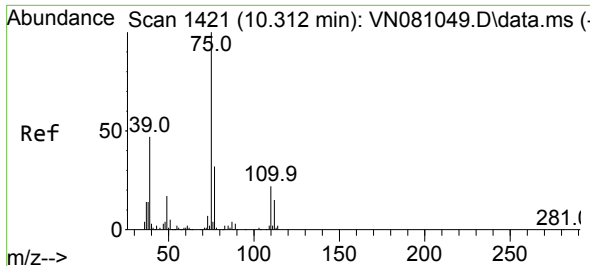
Tgt Ion: 43 Resp: 23918
Ion Ratio Lower Upper
43 100
58 22.6 29.4 44.0#



#53
t-1,3-Dichloropropene
Concen: 0.363 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 75 Resp: 2114
Ion Ratio Lower Upper
75 100
77 21.8 25.5 38.3#

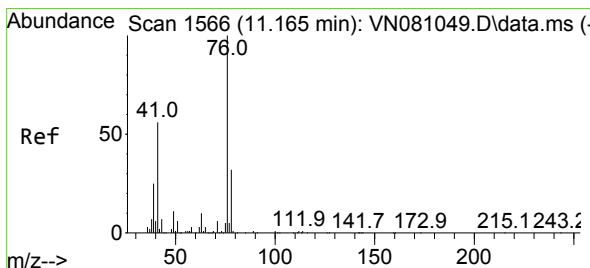
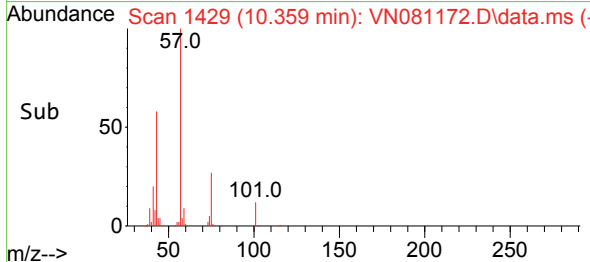
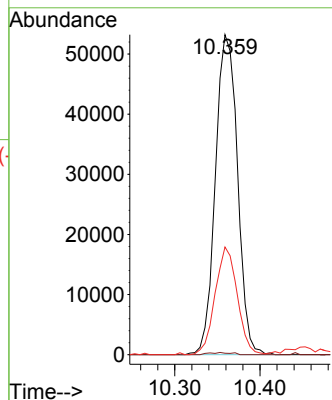
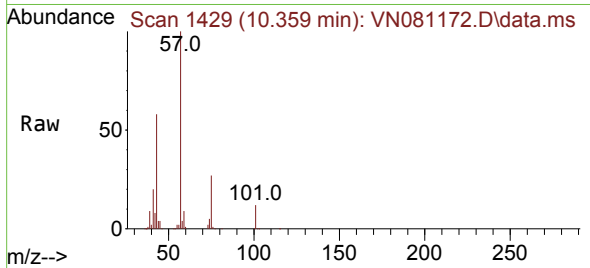




#54
cis-1,3-Dichloropropene
Concen: 15.237 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

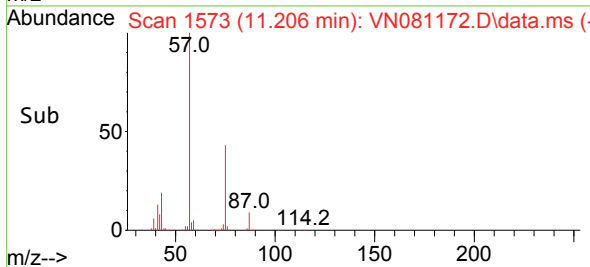
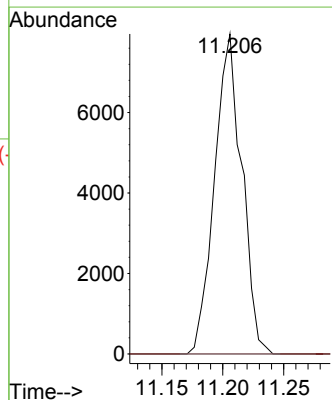
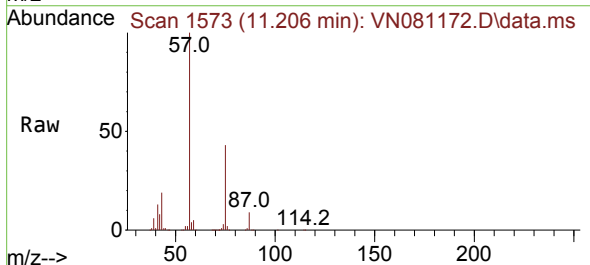
Instrument :
MSVOA_N
ClientSampleId :
SB-2

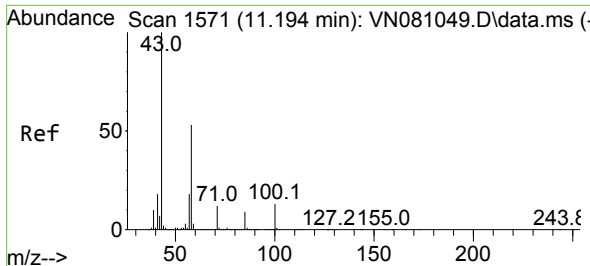
Tgt Ion: 75 Resp: 95961
Ion Ratio Lower Upper
75 100
77 0.4 23.3 34.9#
39 33.2 44.6 66.8#



#57
1,3-Dichloropropane
Concen: 1.943 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 76 Resp: 12428
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#

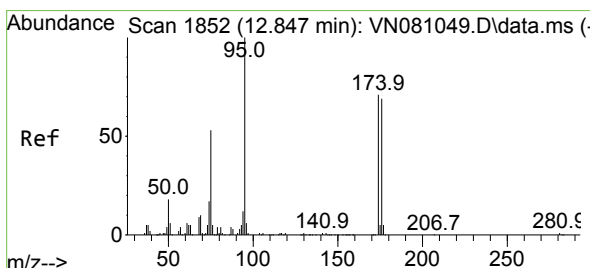
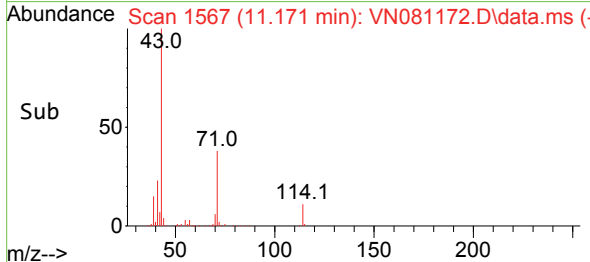
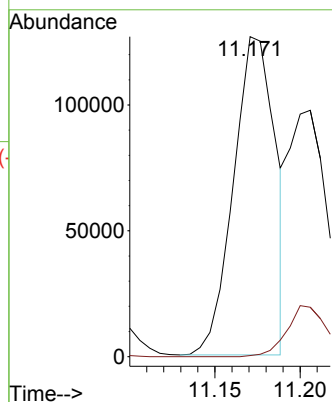
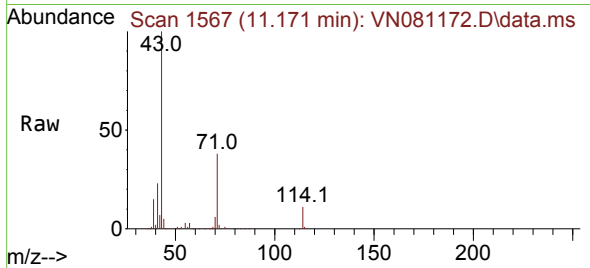




#59
2-Hexanone
Concen: 57.086 ug/l
RT: 11.171 min Scan# 11171
Delta R.T. -0.024 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

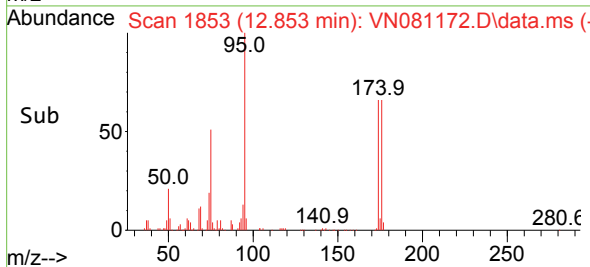
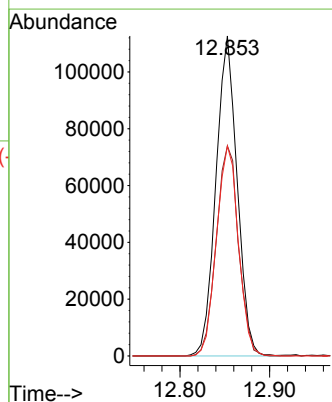
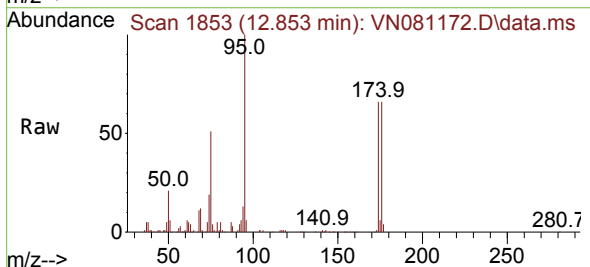
Instrument :
MSVOA_N
ClientSampleId :
SB-2

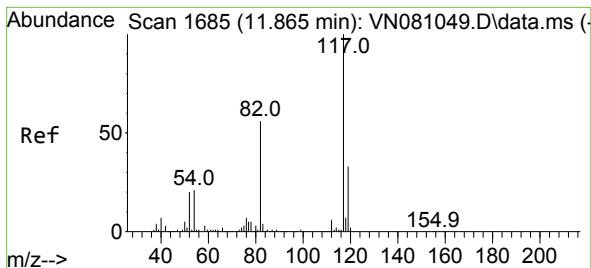
Tgt Ion: 43 Resp: 215743
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 45.249 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 95 Resp: 185054
Ion Ratio Lower Upper
95 100
174 68.7 0.0 120.4
176 67.8 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

SB-2

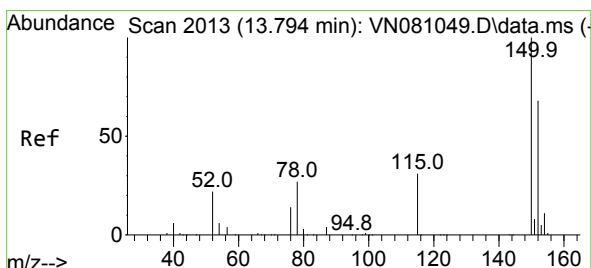
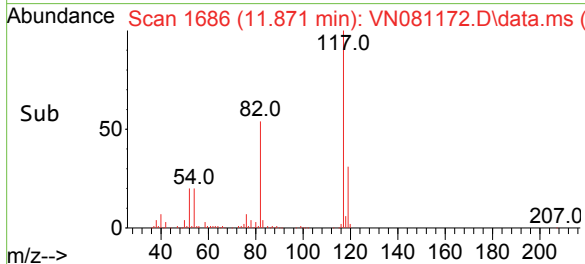
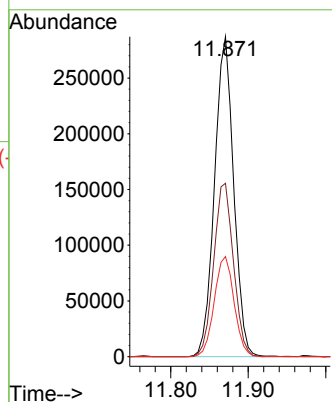
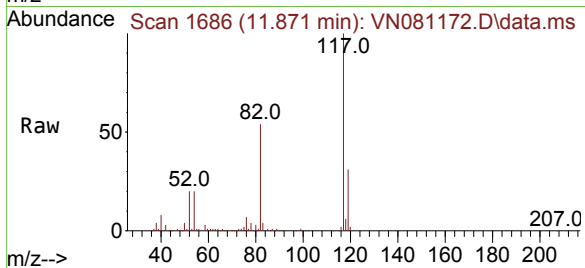
Tgt Ion:117 Resp: 492503

Ion Ratio Lower Upper

117 100

82 54.2 52.7 79.1

119 31.3 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN081172.D

Acq: 23 Feb 2024 20:33

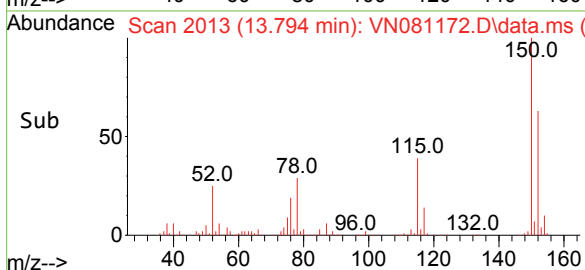
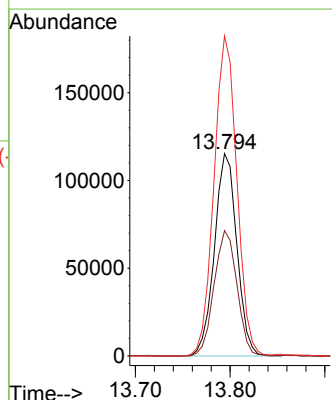
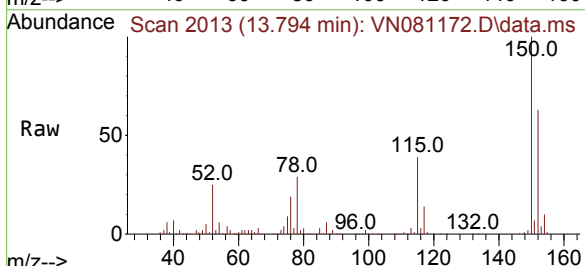
Tgt Ion:152 Resp: 189865

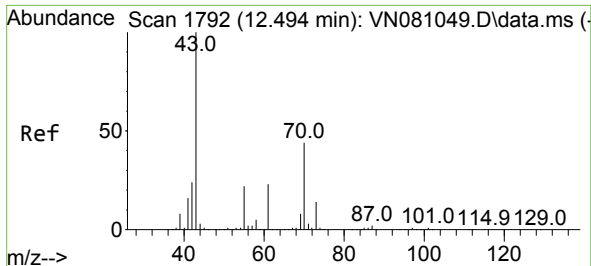
Ion Ratio Lower Upper

152 100

115 63.1 32.3 96.8

150 161.2 0.0 339.8

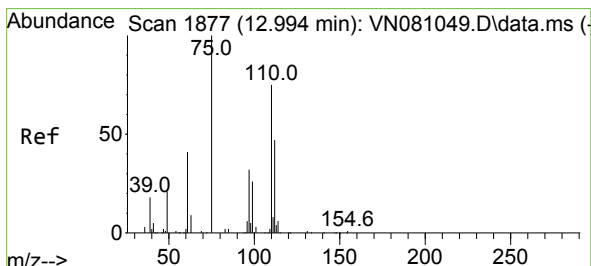
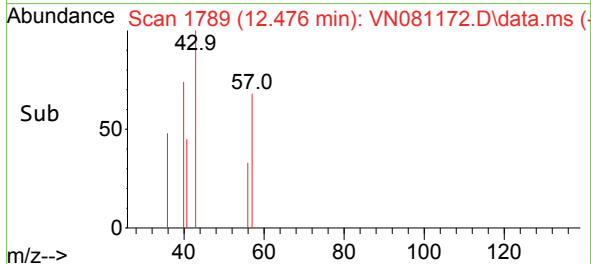
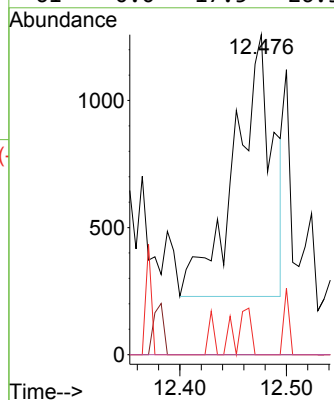
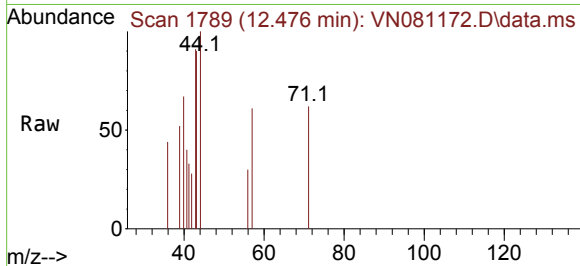




#74
N-amy1 acetate
Concen: 0.361 ug/l
RT: 12.476 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

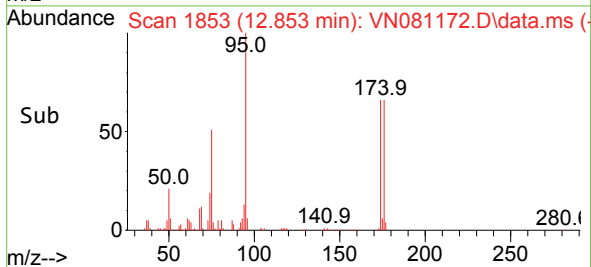
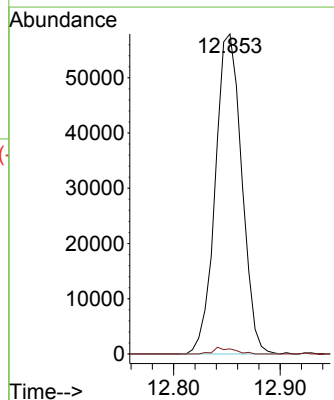
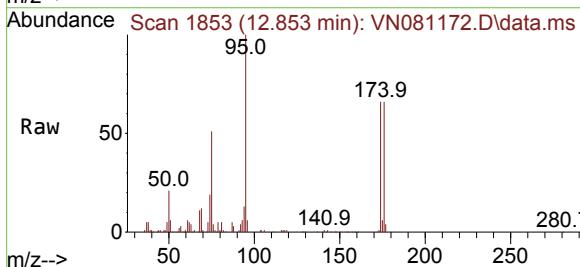
Instrument :
MSVOA_N
ClientSampleId :
SB-2

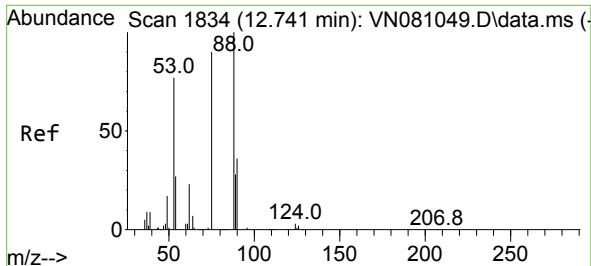
Tgt Ion: 43 Resp: 2536
Ion Ratio Lower Upper
43 100
70 0.0 30.1 45.1#
55 7.0 17.0 25.4#
61 0.0 17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 23.156 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 75 Resp: 99892
Ion Ratio Lower Upper
75 100
77 1.6 91.0 272.8#

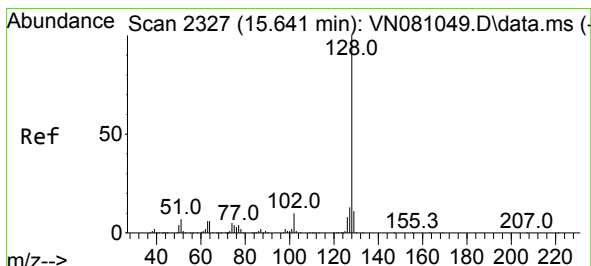
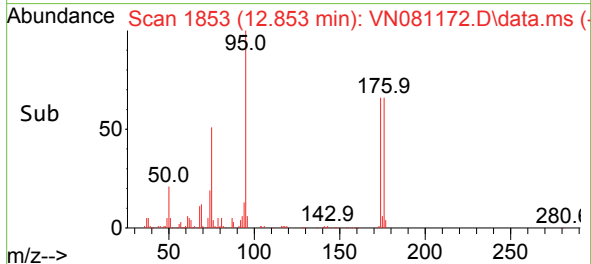
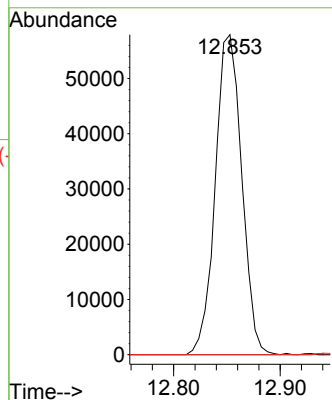
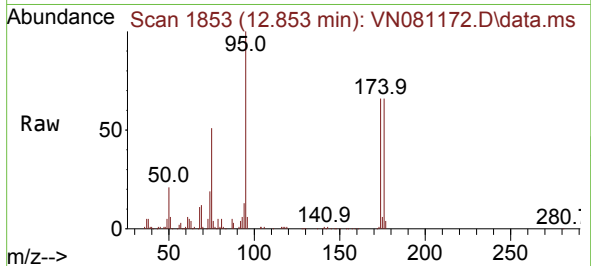




#81
trans-1,4-Dichloro-2-butene
Concen: 59.602 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Instrument :
MSVOA_N
ClientSampleId :
SB-2

Tgt Ion: 75 Resp: 99892
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#



#95
Naphthalene
Concen: 0.333 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN081172.D
Acq: 23 Feb 2024 20:33

Tgt Ion: 128 Resp: 4598
Ion Ratio Lower Upper
128 100
127 13.5 10.0 15.0
129 7.9 8.7 13.1#

