

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083122\
 Data File : VN074219.D
 Acq On : 31 Aug 2022 17:12
 Operator : JC\MD
 Sample : N4423-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 01 00:27:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083022W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 31 07:02:40 2022
 Response via : Initial Calibration

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

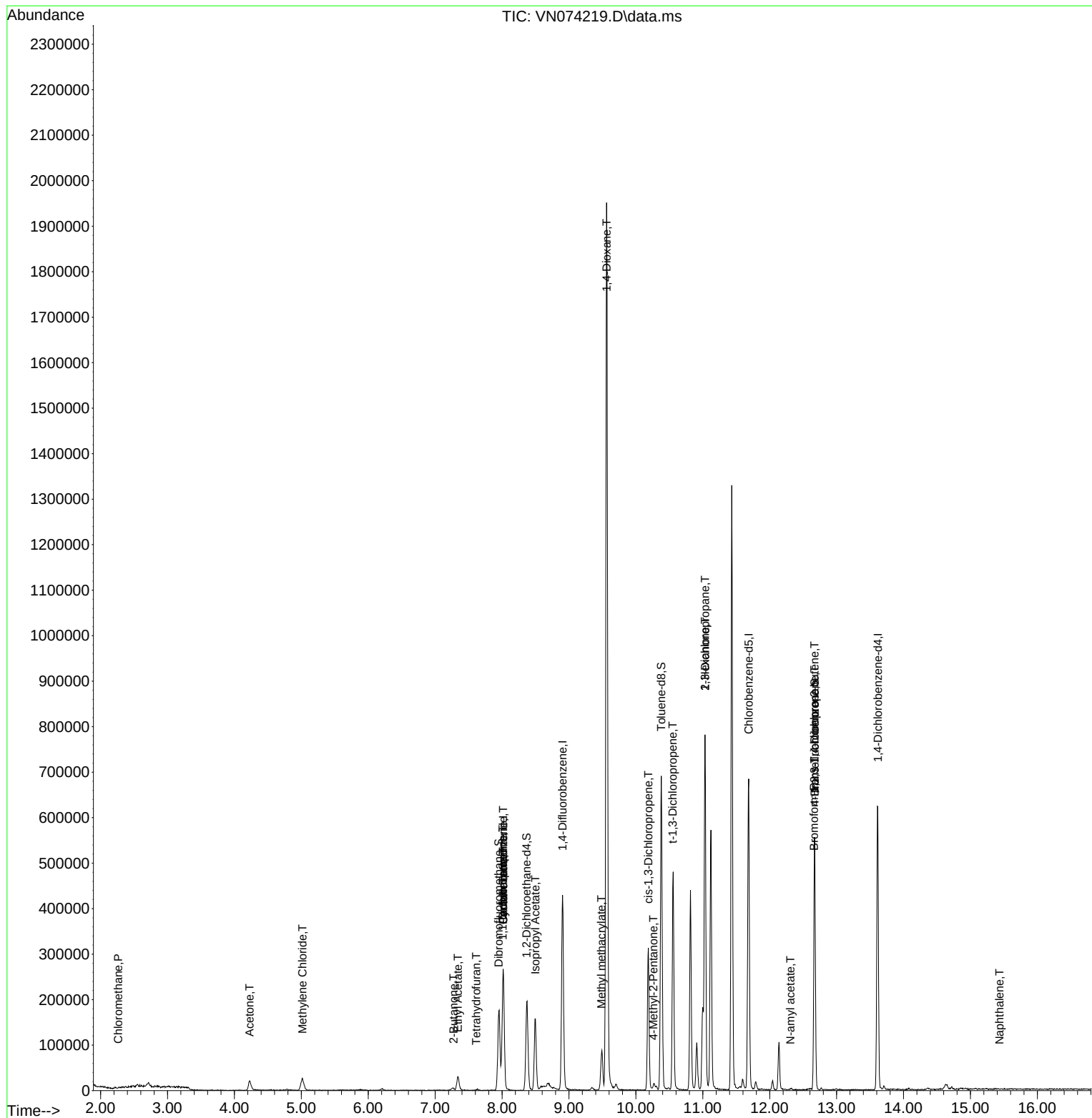
Internal Standards						
1) Pentafluorobenzene	8.016	168	183364	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	353162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	358199	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	155920	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	154378	54.274	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.540%			
35) Dibromofluoromethane	7.951	113	120792	52.562	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.120%			
50) Toluene-d8	10.380	98	437799	48.375	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.740%			
62) 4-Bromofluorobenzene	12.674	95	171439	62.291	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 124.580%#			
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	796	0.298	ug/l #	43
6) Chloroethane	2.957	64	615	Below Cal	#	42
11) Tert butyl alcohol	5.281	59	199	Below Cal	#	72
16) Acetone	4.228	43	36919	19.424	ug/l	98
18) Methyl Acetate	4.787	43	4373	Below Cal	#	64
20) Methylene Chloride	5.016	84	18504	5.286	ug/l #	84
25) 2-Butanone	7.275	43	7035	2.314	ug/l	99
29) Tetrahydrofuran	7.616	42	920	0.475	ug/l #	37
31) Cyclohexane	8.016	56	5320	1.132	ug/l #	43
36) 1,1-Dichloropropene	8.010	75	17151	4.600	ug/l #	50
37) Ethyl Acetate	7.339	43	48114	7.716	ug/l #	95
38) Carbon Tetrachloride	8.016	117	20636	6.094	ug/l #	18
43) Isopropyl Acetate	8.498	43	180552	21.538	ug/l #	84
48) Methyl methacrylate	9.486	41	6722	1.688	ug/l #	40
49) 1,4-Dioxane	9.563	88	267	3.108	ug/l #	1
51) 4-Methyl-2-Pentanone	10.263	43	10214	1.679	ug/l #	82
53) t-1,3-Dichloropropene	10.551	75	1294	0.330	ug/l	92
54) cis-1,3-Dichloropropene	10.186	75	49969	11.378	ug/l #	75
57) 1,3-Dichloropropane	11.033	76	8028	1.548	ug/l #	42
59) 2-Hexanone	11.033	43	115055	24.920	ug/l #	46
71) Bromoform	12.663	173	1173	0.483	ug/l #	28
74) N-amyl acetate	12.310	43	1692	0.224	ug/l #	42
76) 1,2,3-Trichloropropane	12.669	75	97343	25.133	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	97343	64.802	ug/l #	11
95) Naphthalene	15.433	128	579	1.199	ug/l #	56

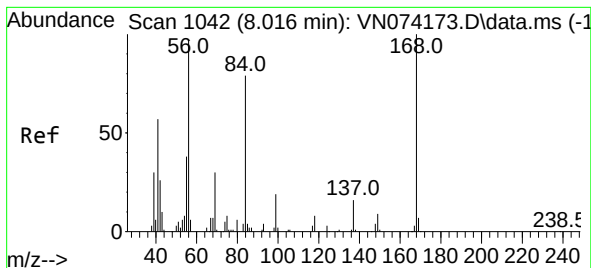
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

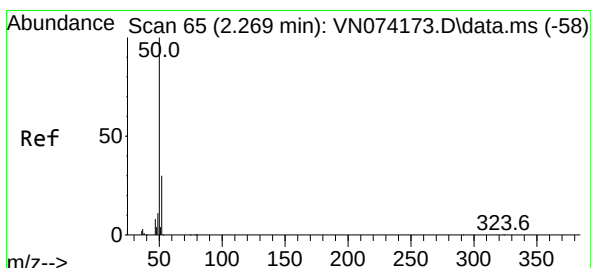
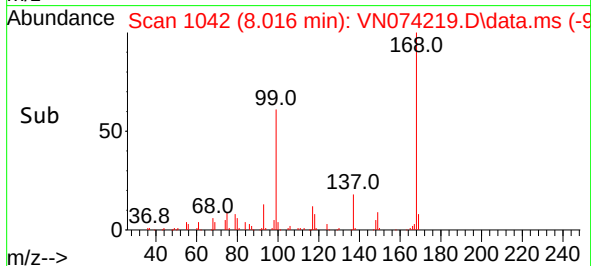
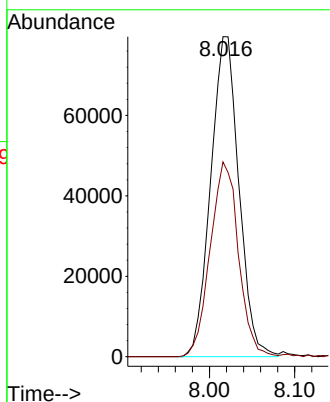
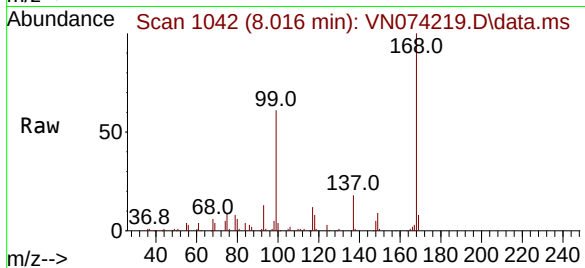




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

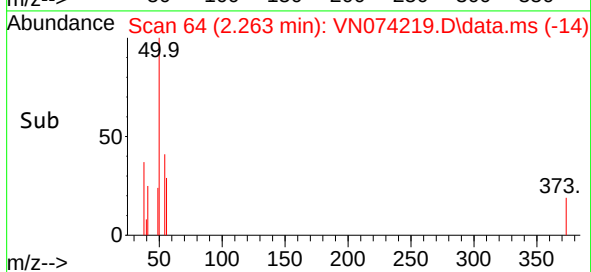
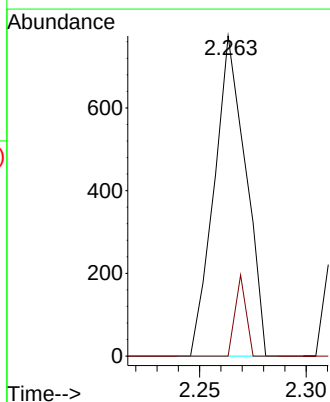
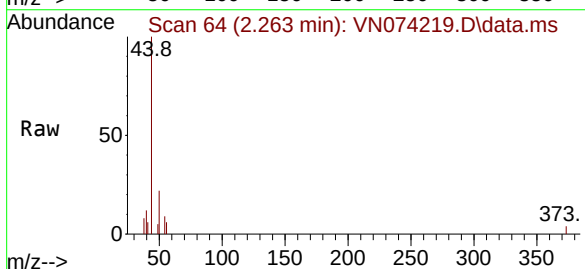
Instrument :
MSVOA_N
ClientSampleId :

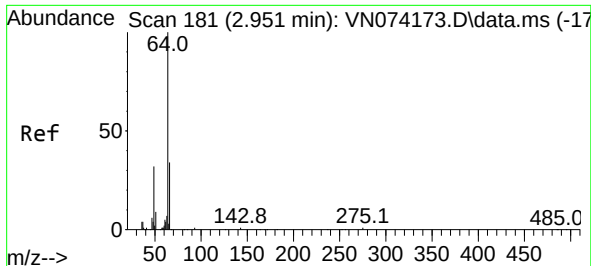
Tgt Ion:168 Resp: 183364
Ion Ratio Lower Upper
168 100
99 60.9 42.3 63.5



#3
Chloromethane
Concen: 0.298 ug/l
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

Tgt Ion: 50 Resp: 796
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

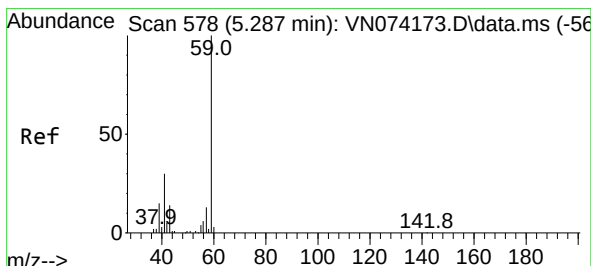
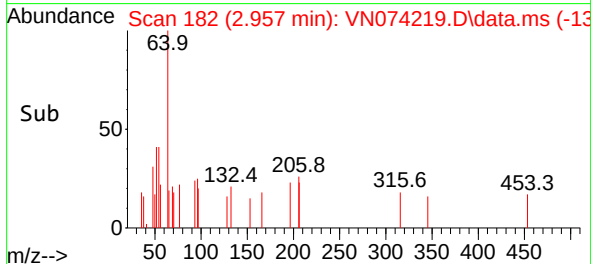
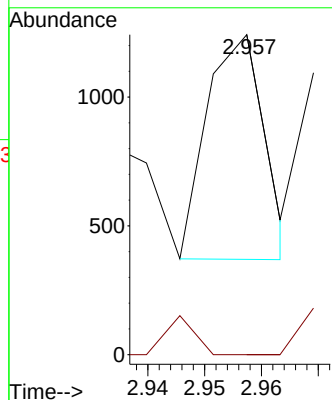
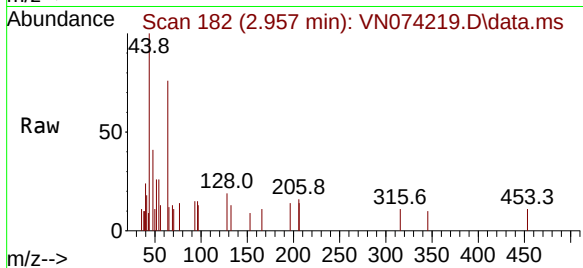




#6
Chloroethane
Concen: Below Cal
RT: 2.957 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

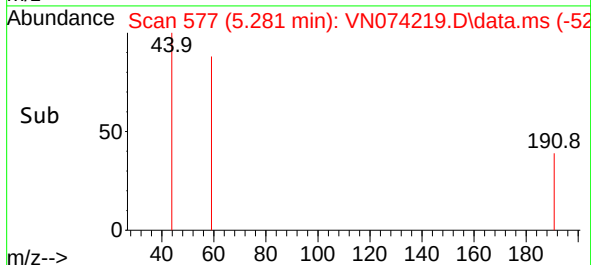
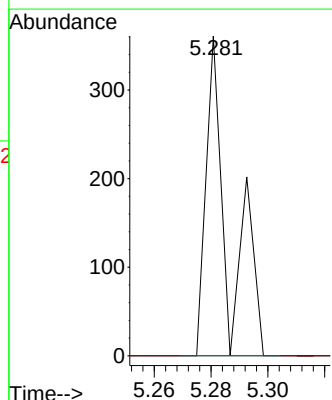
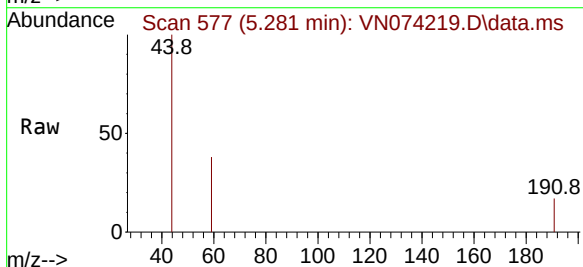
Instrument :
MSVOA_N
ClientSampleId :

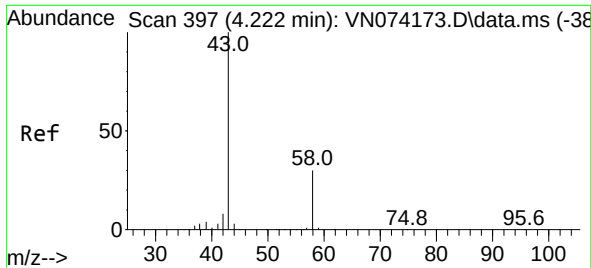
Tgt Ion: 64 Resp: 615
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.281 min Scan# 577
Delta R.T. -0.006 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

Tgt Ion: 59 Resp: 199
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

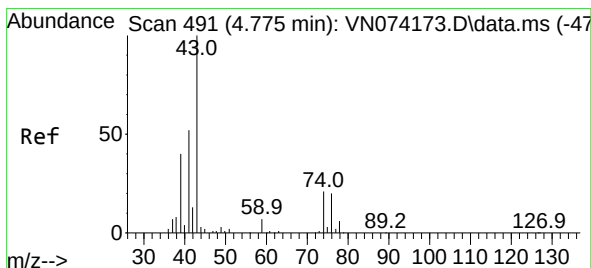
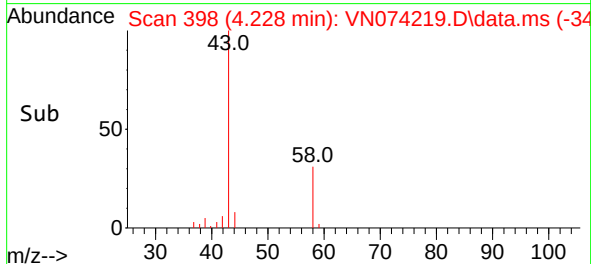
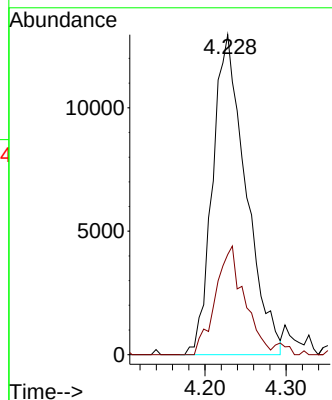
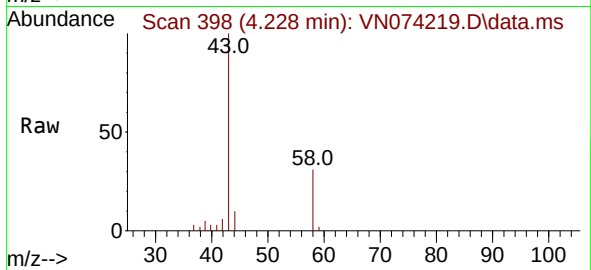




#16
Acetone
Concen: 19.424 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

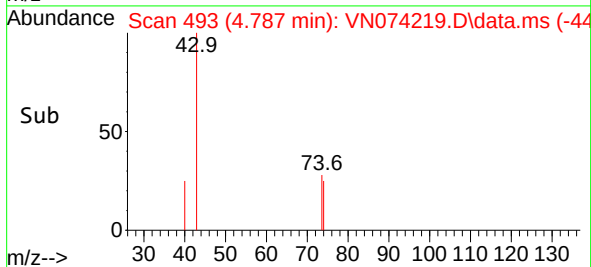
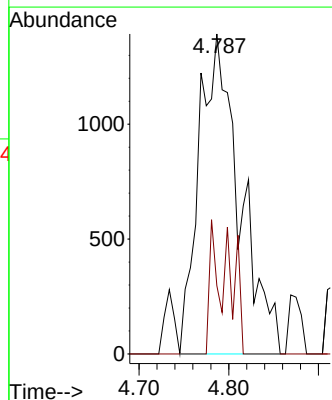
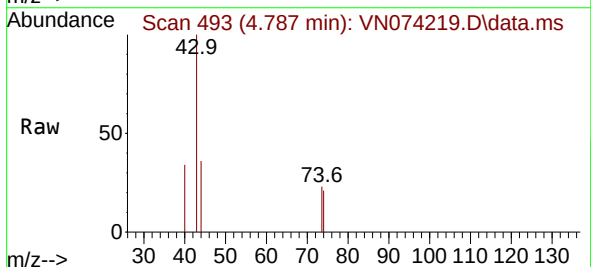
Instrument :
MSVOA_N
ClientSampleId :

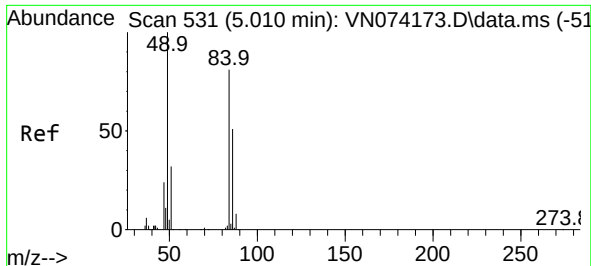
Tgt Ion: 43 Resp: 36919
Ion Ratio Lower Upper
43 100
58 31.3 26.0 39.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.787 min Scan# 493
Delta R.T. 0.012 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

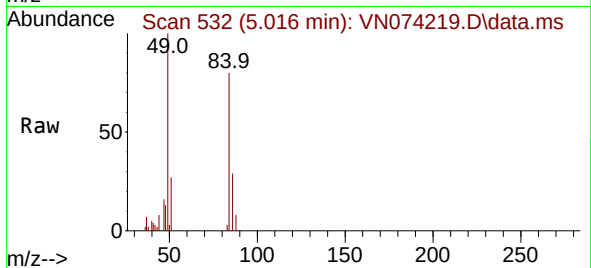
Tgt Ion: 43 Resp: 4373
Ion Ratio Lower Upper
43 100
74 8.6 21.6 32.4#



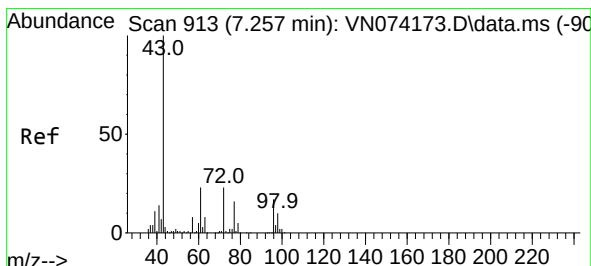
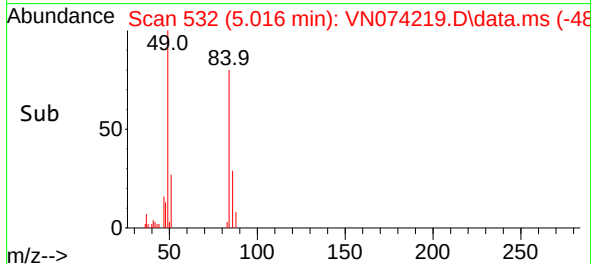
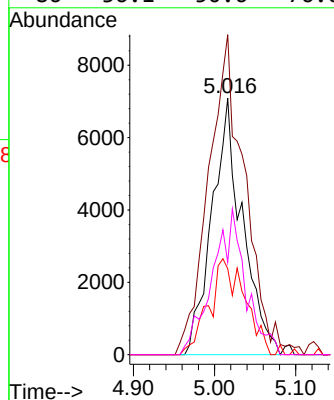


#20
Methylene Chloride
Concen: 5.286 ug/l
RT: 5.016 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

Instrument :
MSVOA_N
ClientSampleId :

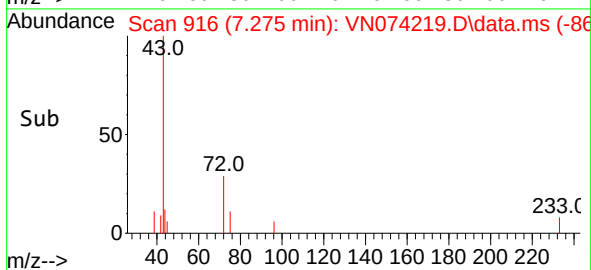
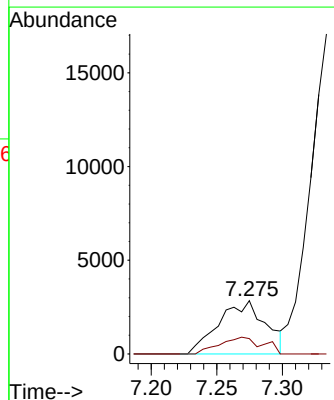
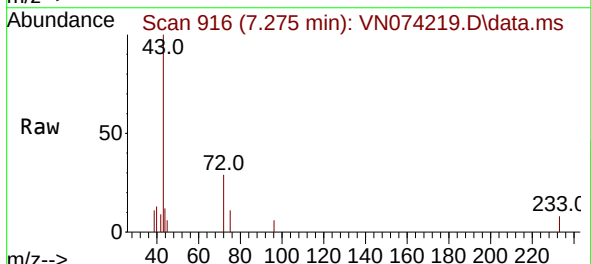


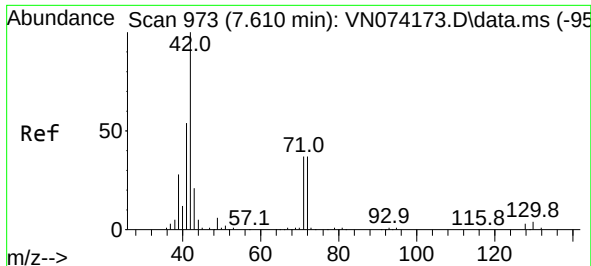
Tgt Ion: 84 Resp: 18504
Ion Ratio Lower Upper
84 100
49 120.8 88.3 132.5
51 33.5 28.2 42.2
86 36.1 50.6 76.0#



#25
2-Butanone
Concen: 2.314 ug/l
RT: 7.275 min Scan# 916
Delta R.T. 0.018 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

Tgt Ion: 43 Resp: 7035
Ion Ratio Lower Upper
43 100
72 29.0 23.7 35.5





#29

Tetrahydrofuran

Concen: 0.475 ug/l

RT: 7.616 min Scan# 91

Delta R.T. 0.006 min

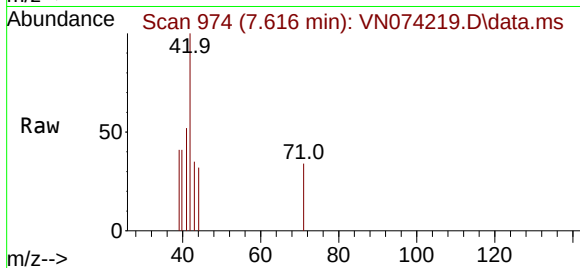
Lab File: VN074219.D

Acq: 31 Aug 2022 17:12

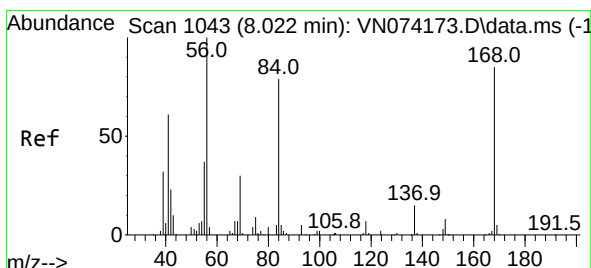
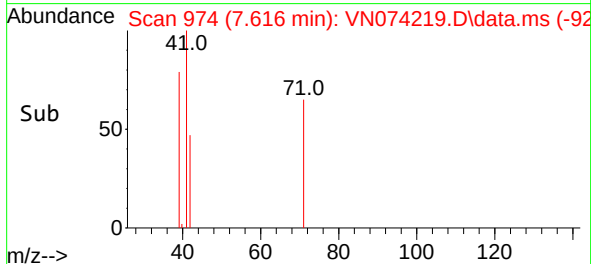
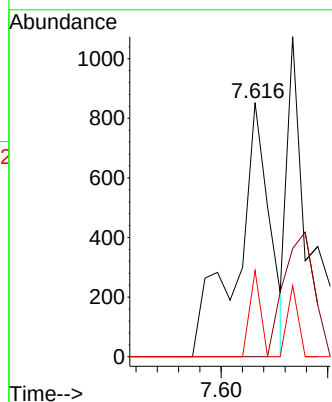
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	920
Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.7	59.5#
71	11.1	36.6	55.0#



#31

Cyclohexane

Concen: 1.132 ug/l

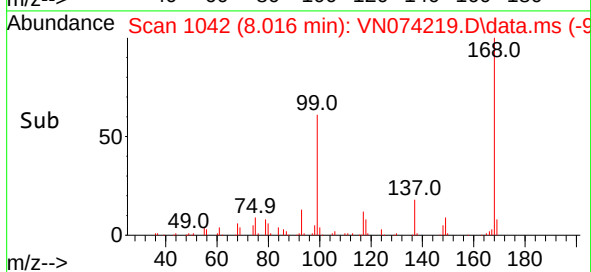
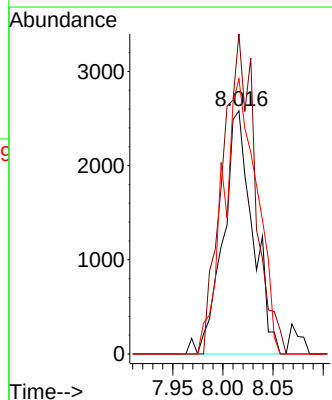
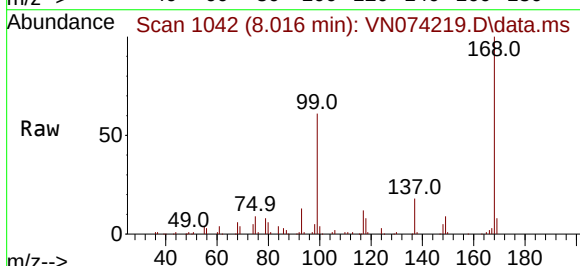
RT: 8.016 min Scan# 1042

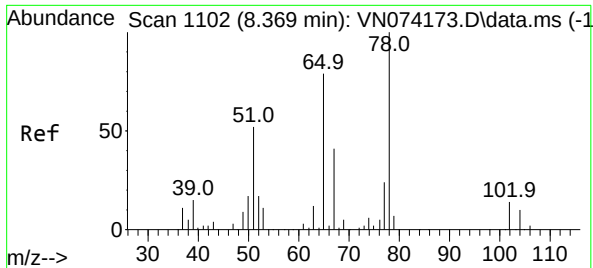
Delta R.T. -0.006 min

Lab File: VN074219.D

Acq: 31 Aug 2022 17:12

Tgt Ion:	56	Resp:	5320
Ion	Ratio	Lower	Upper
56	100		
69	131.6	27.8	41.8#
84	113.2	76.9	115.3





#33

1,2-Dichloroethane-d4

Concen: 54.274 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN074219.D

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Instrument :

MSVOA_N

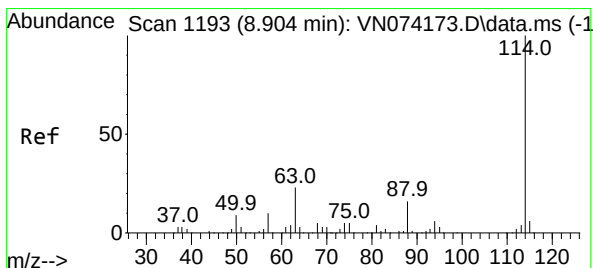
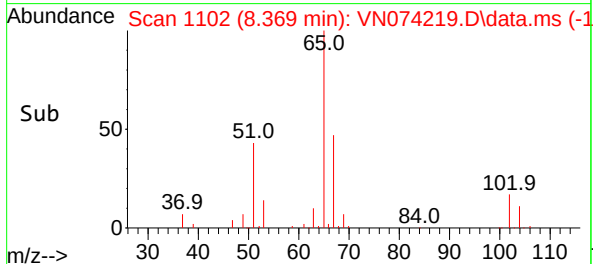
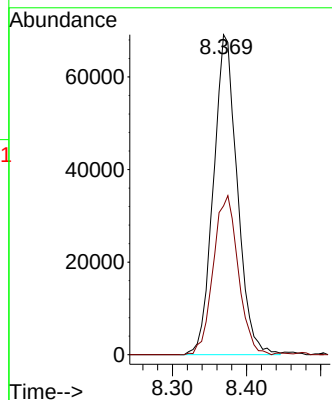
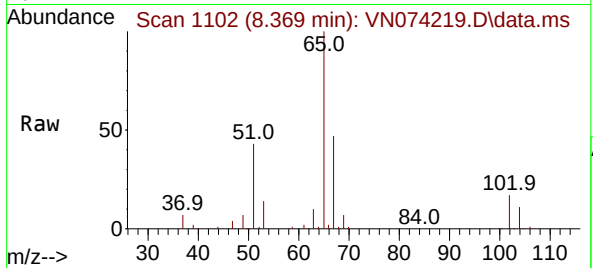
ClientSampleId :

Tgt Ion: 65 Resp: 154378

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074219.D

Acq: 31 Aug 2022 17:12

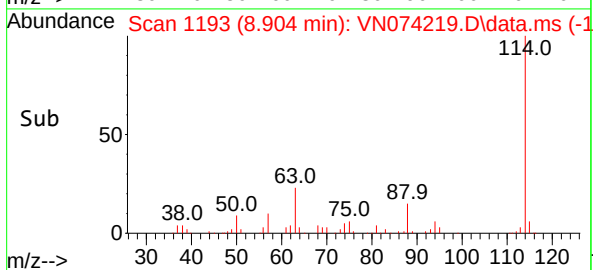
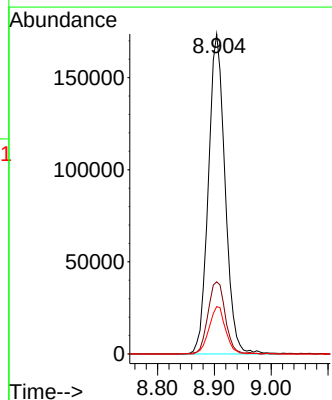
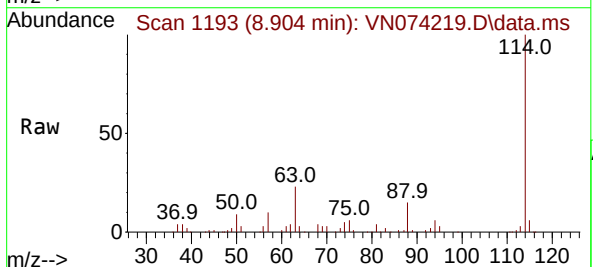
Tgt Ion: 114 Resp: 353162

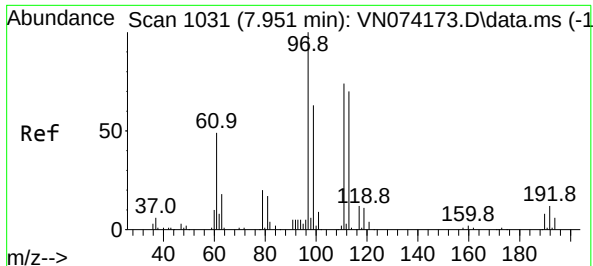
Ion Ratio Lower Upper

114 100

63 22.5 0.0 40.0

88 14.8 0.0 32.6

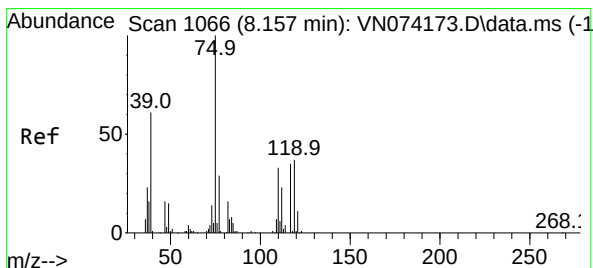
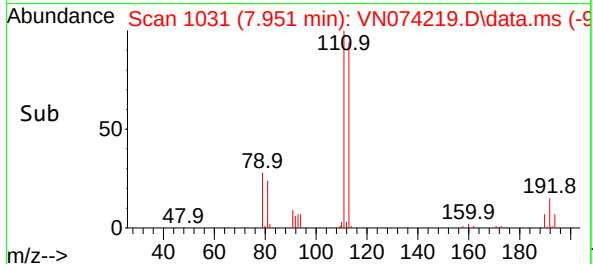
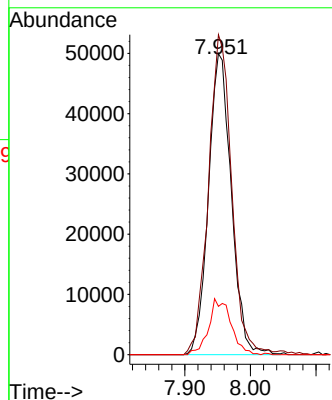
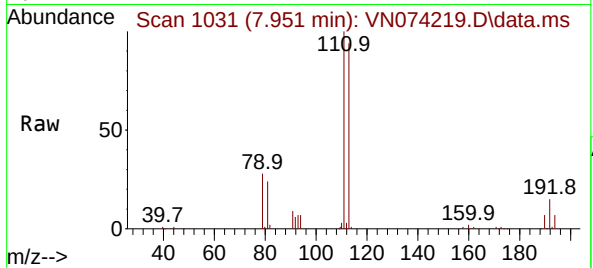




#35
Dibromofluoromethane
Concen: 52.562 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

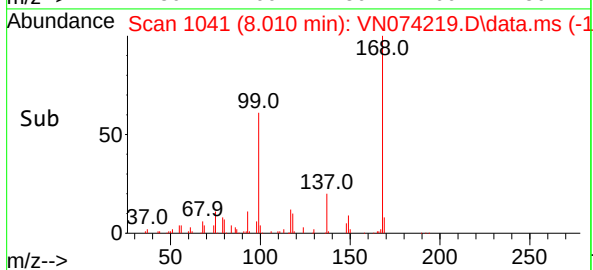
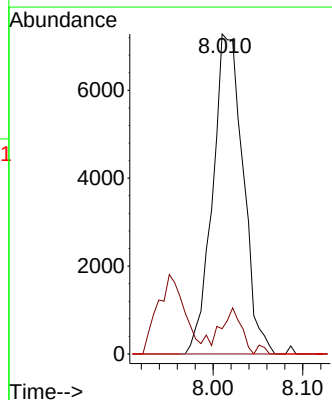
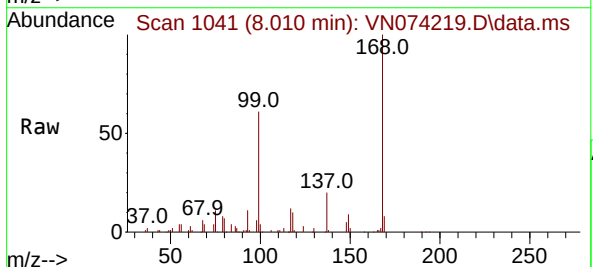
Instrument :
MSVOA_N
ClientSampleId :

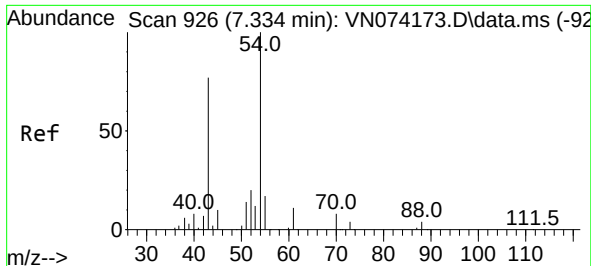
Tgt Ion:113 Resp: 120792
Ion Ratio Lower Upper
113 100
111 107.9 81.4 122.0
192 18.2 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.600 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.147 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

Tgt Ion: 75 Resp: 17151
Ion Ratio Lower Upper
75 100
110 10.5 18.3 54.8#
77 0.0 25.1 37.7#

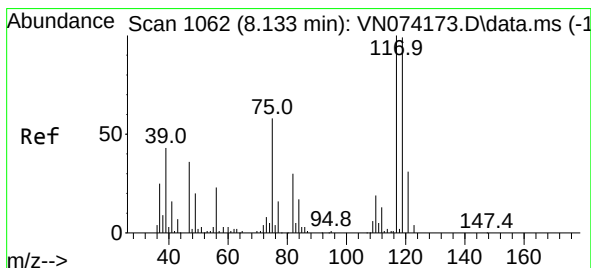
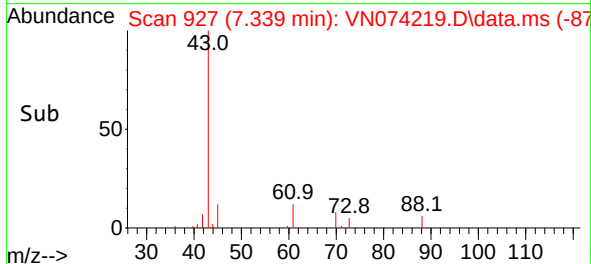
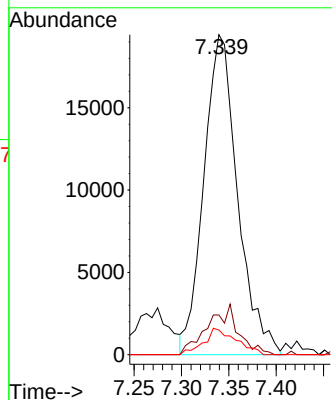
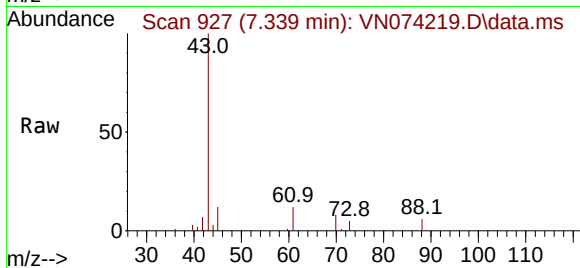




#37
Ethyl Acetate
Concen: 7.716 ug/l
RT: 7.339 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

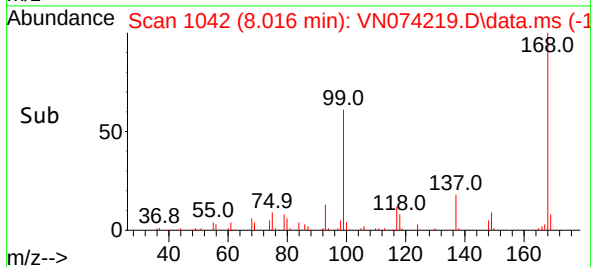
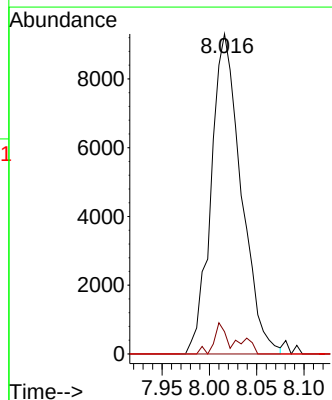
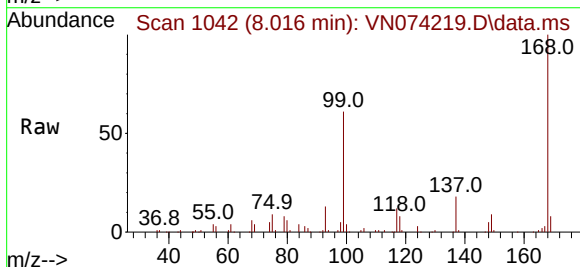
Instrument :
MSVOA_N
ClientSampleId :

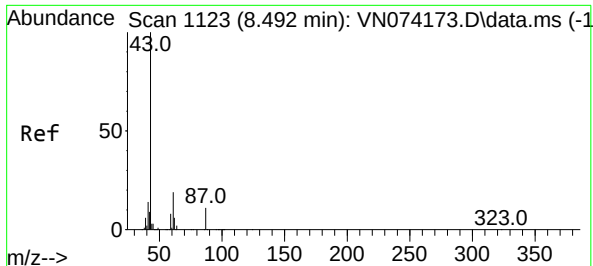
Tgt Ion: 43 Resp: 48114
Ion Ratio Lower Upper
43 100
61 14.3 11.8 17.6
70 7.9 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 6.094 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

Tgt Ion: 117 Resp: 20636
Ion Ratio Lower Upper
117 100
119 7.0 75.8 113.8#
121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 21.538 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN074219.D

Acq: 31 Aug 2022 17:12

Instrument :

MSVOA_N

ClientSampleId :

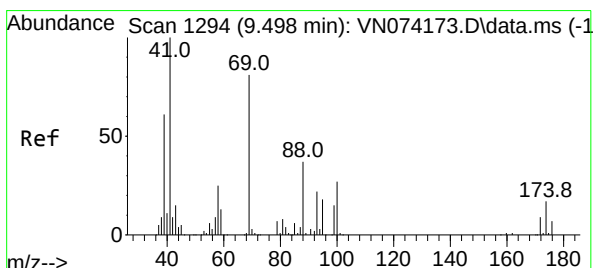
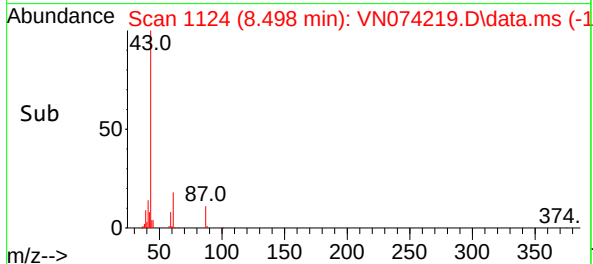
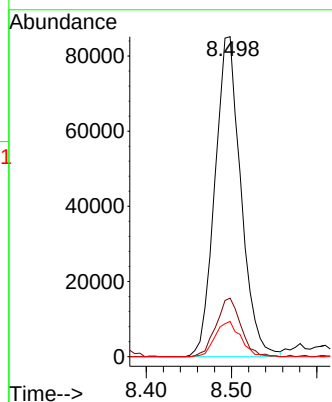
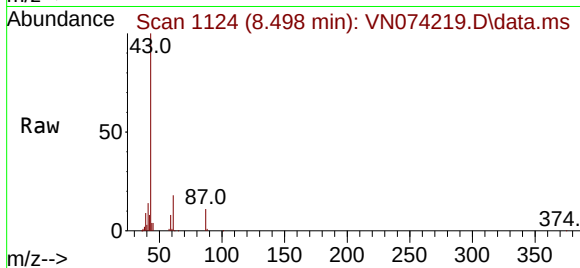
Tgt Ion: 43 Resp: 180552

Ion Ratio Lower Upper

43 100

61 17.4 21.9 32.9#

87 10.8 12.0 18.0#



#48

Methyl methacrylate

Concen: 1.688 ug/l

RT: 9.486 min Scan# 1292

Delta R.T. -0.012 min

Lab File: VN074219.D

Acq: 31 Aug 2022 17:12

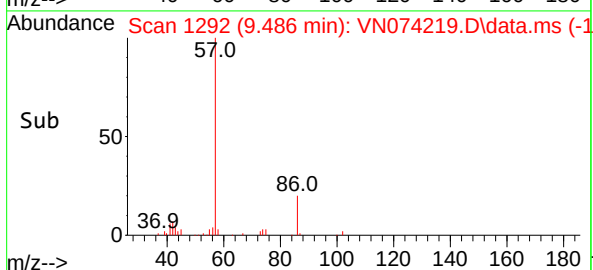
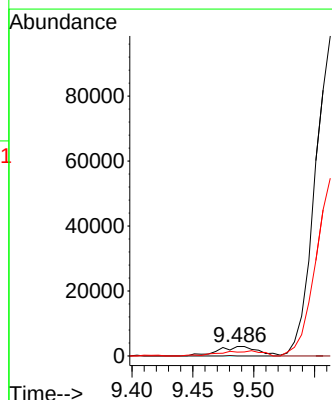
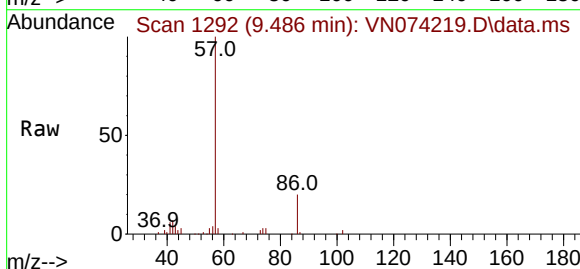
Tgt Ion: 41 Resp: 6722

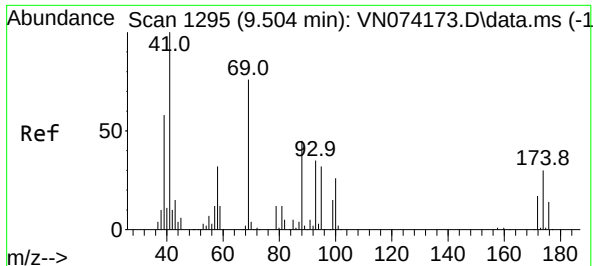
Ion Ratio Lower Upper

41 100

69 0.9 74.7 112.1#

39 56.1 45.6 68.4





#49

1,4-Dioxane

Concen: 3.108 ug/l

RT: 9.563 min Scan# 11

Delta R.T. 0.059 min

Lab File: VN074219.D

Acq: 31 Aug 2022 17:12

Instrument :

MSVOA_N

ClientSampleId :

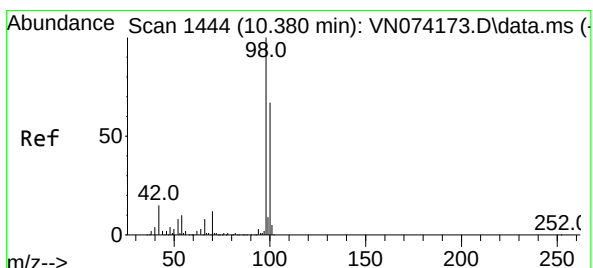
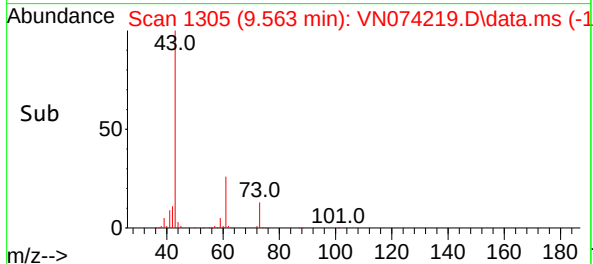
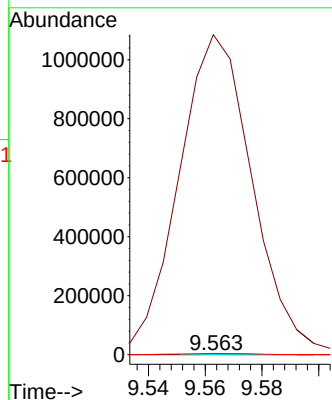
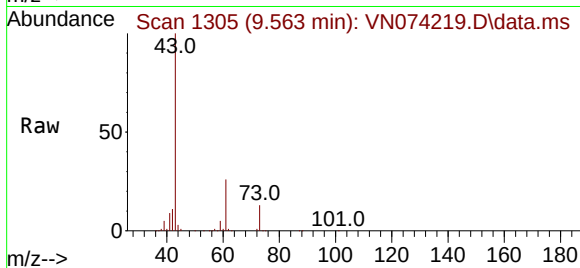
Tgt Ion: 88 Resp: 267

Ion Ratio Lower Upper

88 100

43 742116.9 20.2 30.4#

58 3217.6 54.2 81.4#



#50

Toluene-d8

Concen: 48.375 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN074219.D

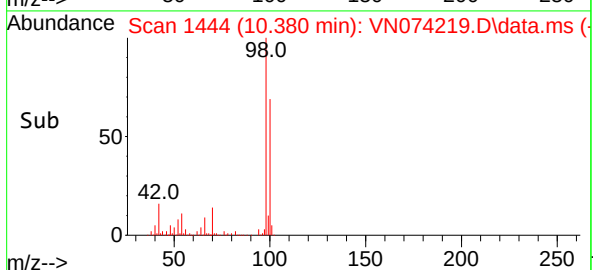
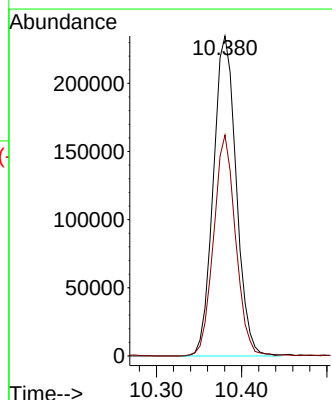
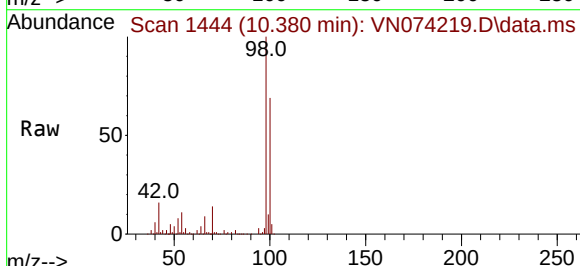
Acq: 31 Aug 2022 17:12

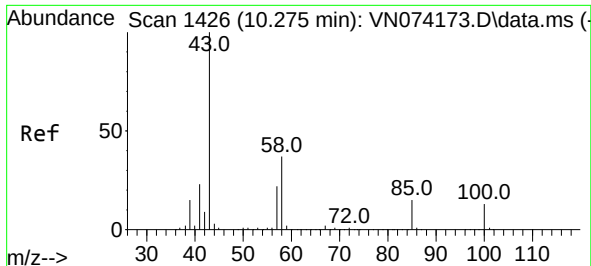
Tgt Ion: 98 Resp: 437799

Ion Ratio Lower Upper

98 100

100 66.4 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 1.679 ug/l

RT: 10.263 min Scan# 1424

Delta R.T. -0.012 min

Lab File: VN074219.D

Acq: 31 Aug 2022 17:12

Instrument :

MSVOA_N

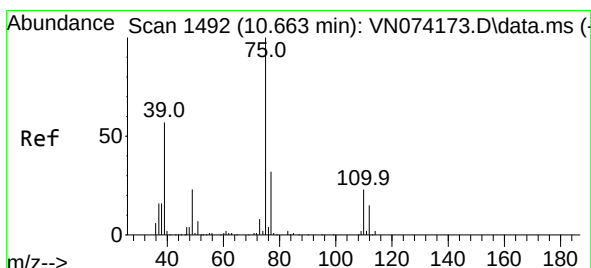
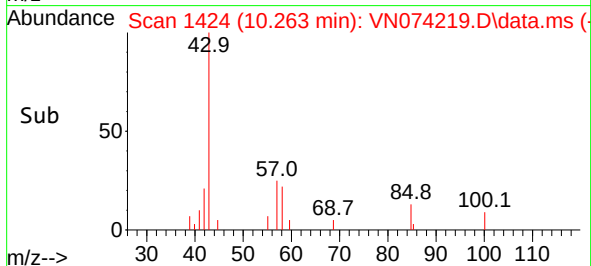
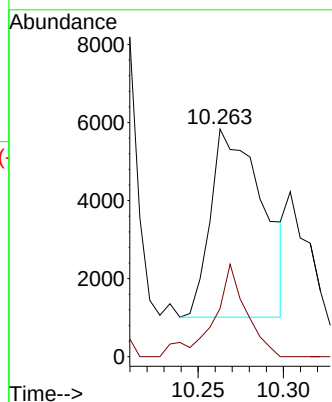
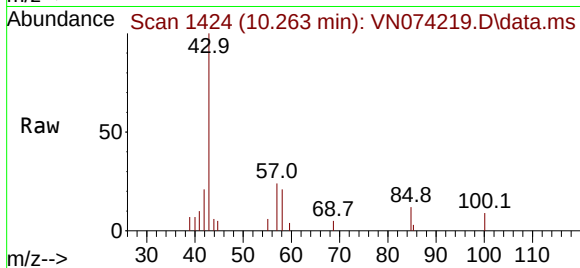
ClientSampleId :

Tgt Ion: 43 Resp: 10214

Ion Ratio Lower Upper

43 100

58 31.0 34.1 51.1#



#53

t-1,3-Dichloropropene

Concen: 0.330 ug/l

RT: 10.551 min Scan# 1473

Delta R.T. -0.112 min

Lab File: VN074219.D

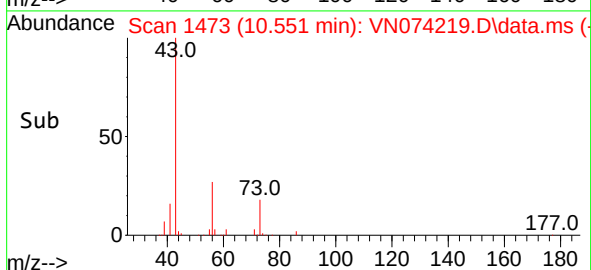
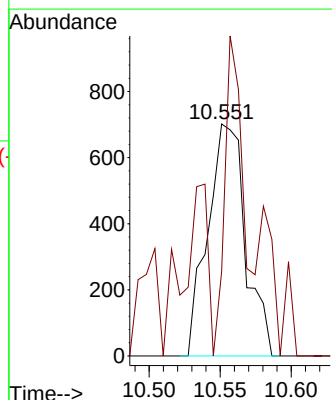
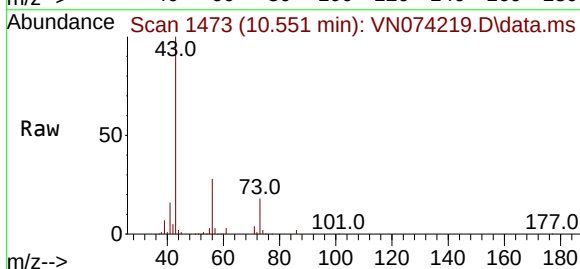
Acq: 31 Aug 2022 17:12

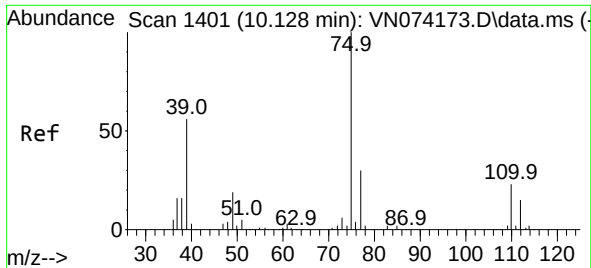
Tgt Ion: 75 Resp: 1294

Ion Ratio Lower Upper

75 100

77 36.3 25.6 38.4

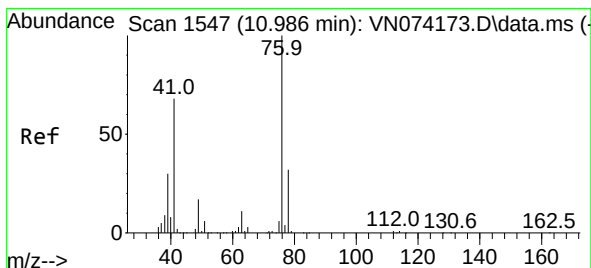
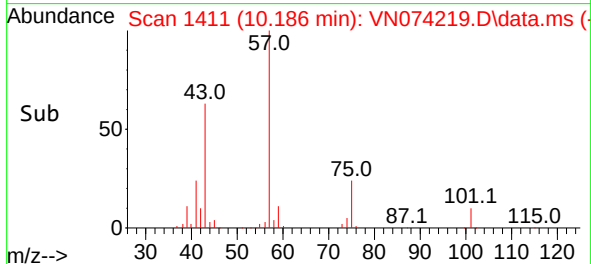
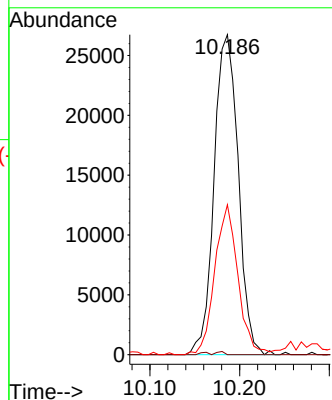
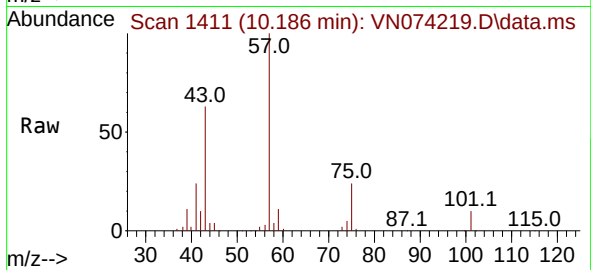




#54
 cis-1,3-Dichloropropene
 Concen: 11.378 ug/l
 RT: 10.186 min Scan# 1401
 Delta R.T. 0.059 min
 Lab File: VN074219.D
 Acq: 31 Aug 2022 17:12

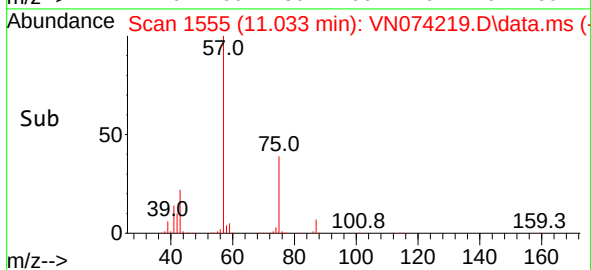
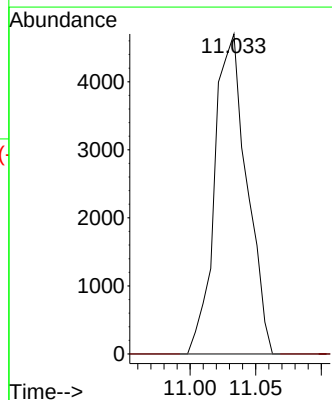
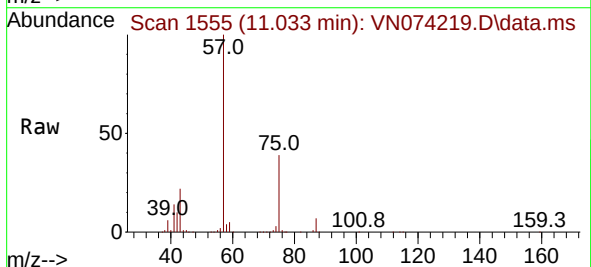
Instrument :
 MSVOA_N
 ClientSampleId :

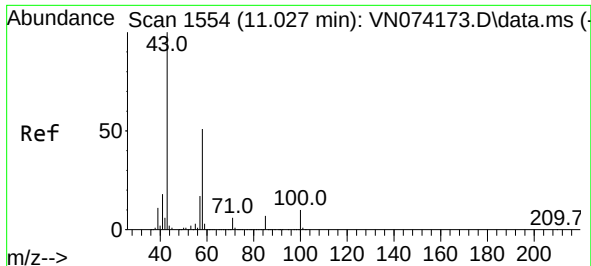
Tgt Ion: 75 Resp: 49969
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 46.0 35.7 53.5



#57
 1,3-Dichloropropane
 Concen: 1.548 ug/l
 RT: 11.033 min Scan# 1555
 Delta R.T. 0.047 min
 Lab File: VN074219.D
 Acq: 31 Aug 2022 17:12

Tgt Ion: 76 Resp: 8028
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

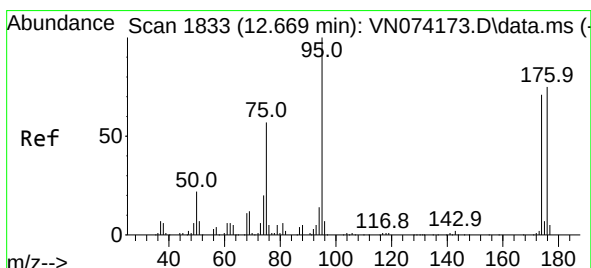
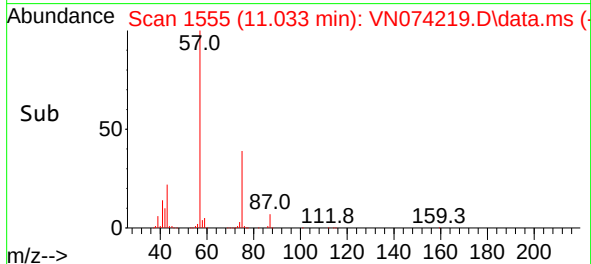
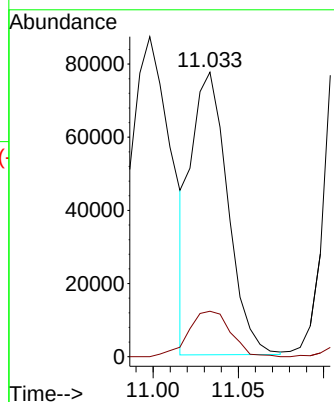
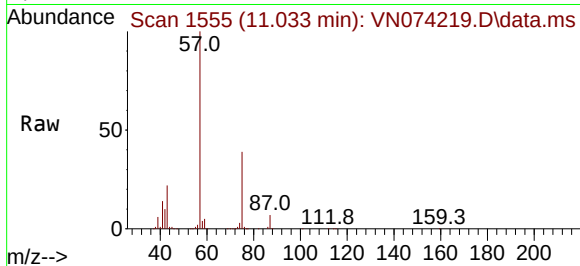




#59
2-Hexanone
Concen: 24.920 ug/l
RT: 11.033 min Scan# 115055
Delta R.T. 0.006 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

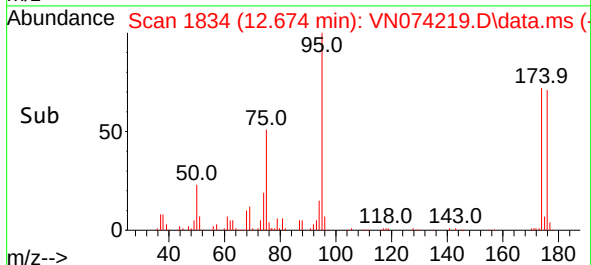
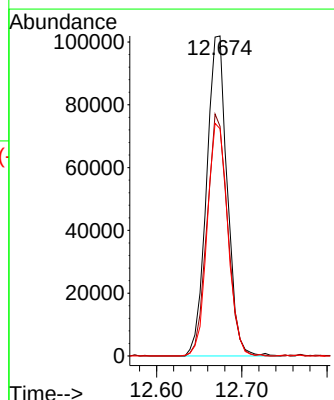
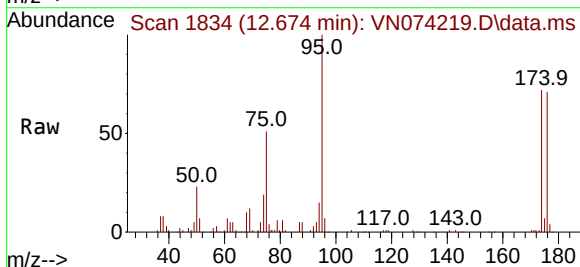
Instrument :
MSVOA_N
ClientSampleId :

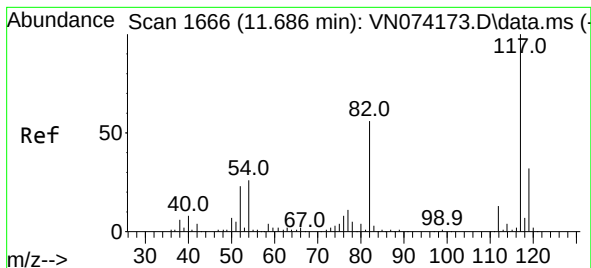
Tgt Ion: 43 Resp: 115055
Ion Ratio Lower Upper
43 100
58 18.6 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 62.291 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

Tgt Ion: 95 Resp: 171439
Ion Ratio Lower Upper
95 100
174 74.9 0.0 167.6
176 72.5 0.0 163.4

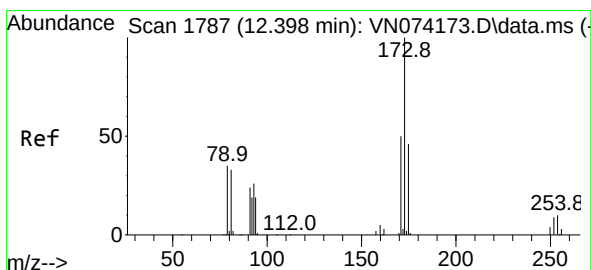
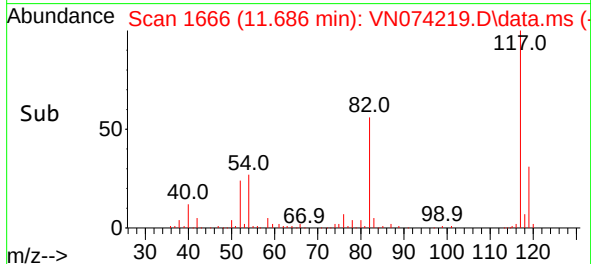
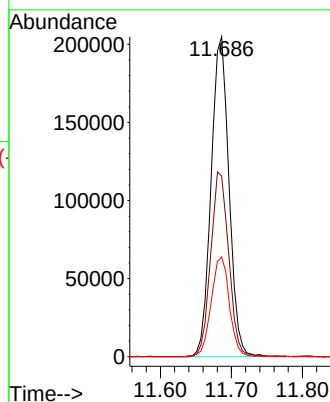
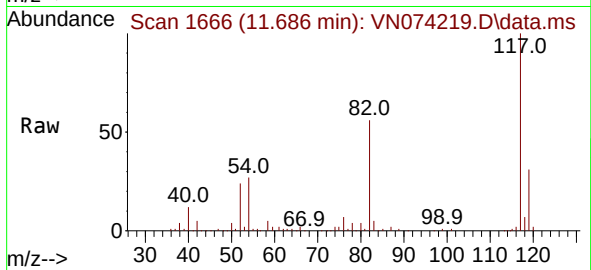




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

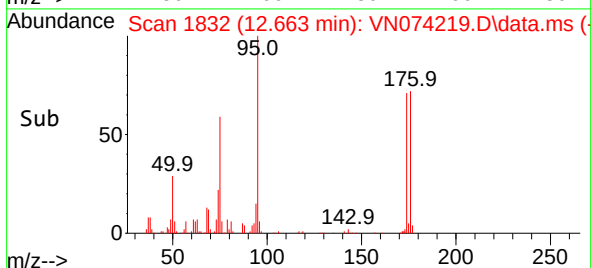
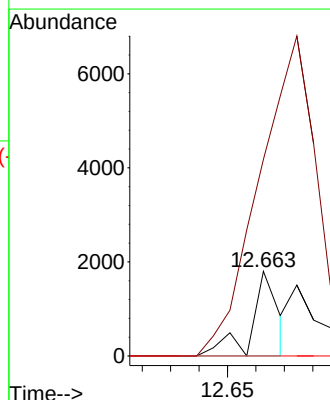
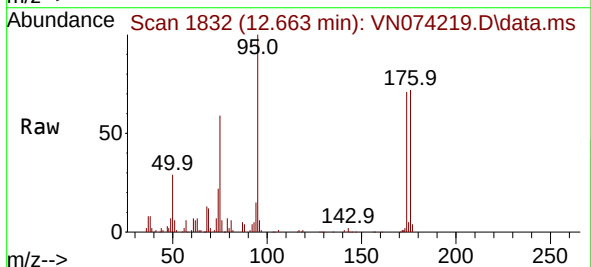
Instrument :
MSVOA_N
ClientSampleId :

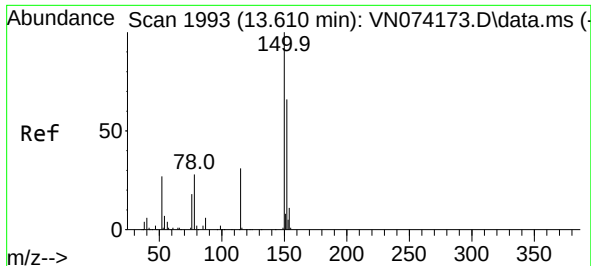
Tgt Ion:117 Resp: 358199
Ion Ratio Lower Upper
117 100
82 56.4 44.2 66.2
119 31.1 25.4 38.0



#71
Bromoform
Concen: 0.483 ug/l
RT: 12.663 min Scan# 1832
Delta R.T. 0.265 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

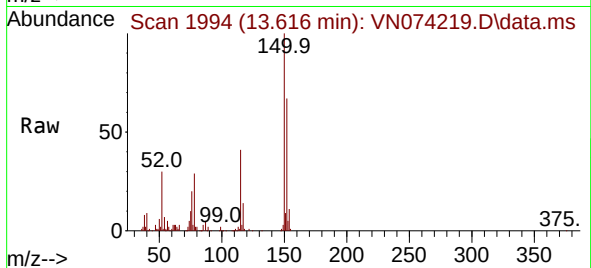
Tgt Ion:173 Resp: 1173
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



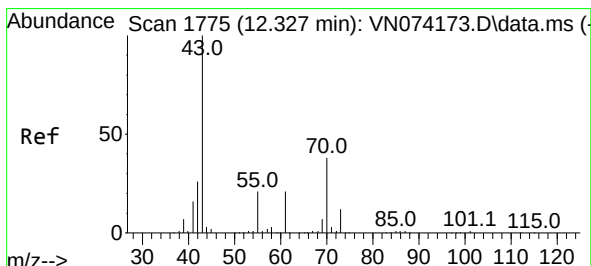
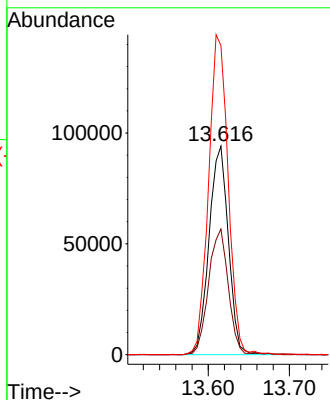
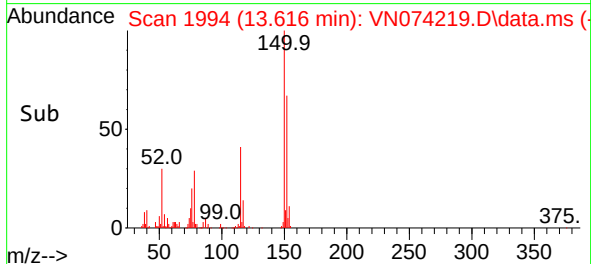


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.616 min Scan# 1994
 Delta R.T. 0.006 min
 Lab File: VN074219.D
 Acq: 31 Aug 2022 17:12

Instrument :
 MSVOA_N
 ClientSampleId :

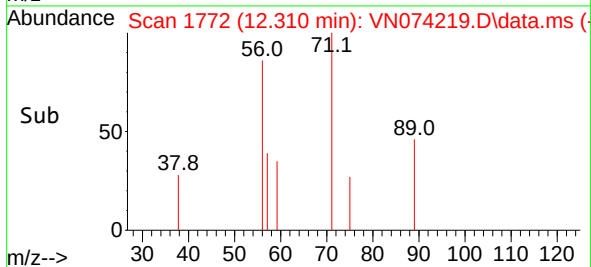
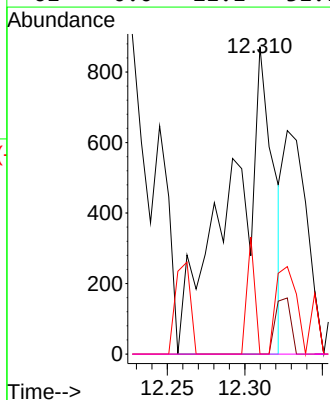
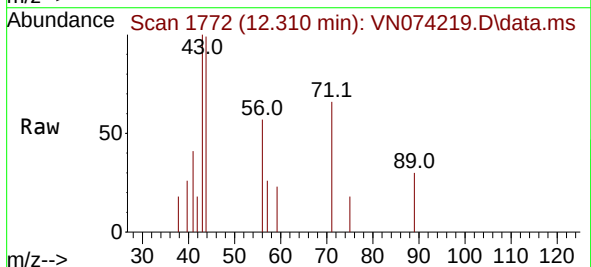


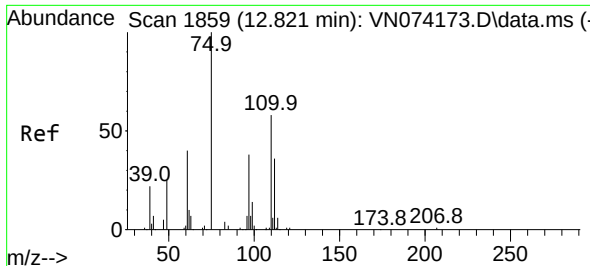
Tgt Ion:152 Resp: 155920
 Ion Ratio Lower Upper
 152 100
 115 61.1 28.9 86.7
 150 154.9 0.0 356.2



#74
 N-ethyl acetate
 Concen: 0.224 ug/l
 RT: 12.310 min Scan# 1772
 Delta R.T. -0.018 min
 Lab File: VN074219.D
 Acq: 31 Aug 2022 17:12

Tgt Ion: 43 Resp: 1692
 Ion Ratio Lower Upper
 43 100
 70 0.0 39.0 58.4#
 55 6.9 21.1 31.7#
 61 0.0 21.1 31.7#

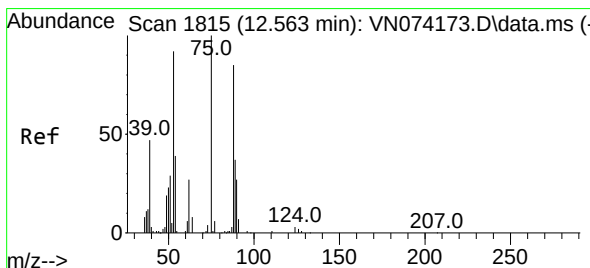
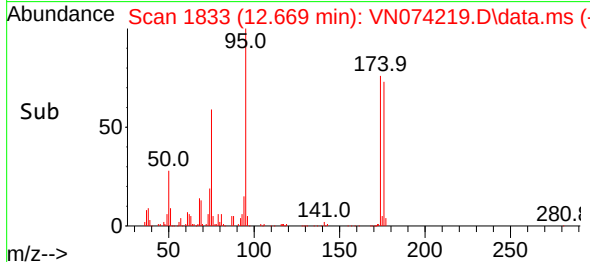
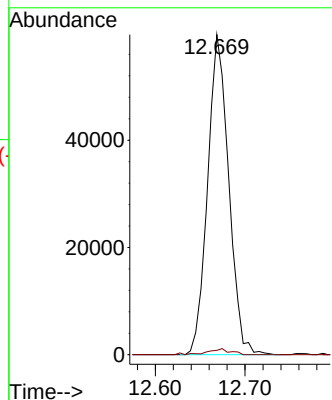
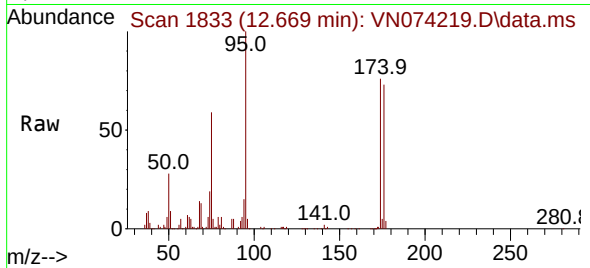




#76
1,2,3-Trichloropropane
Concen: 25.133 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. -0.152 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

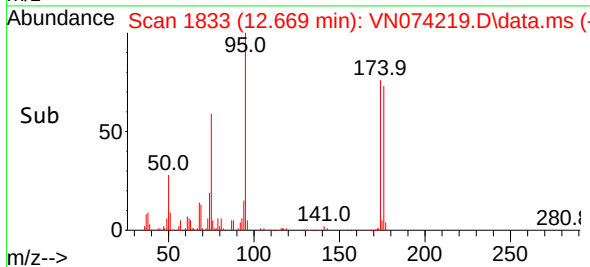
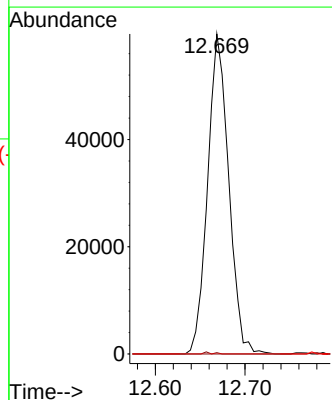
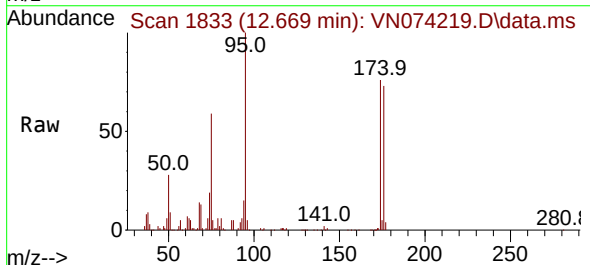
Instrument :
MSVOA_N
ClientSampleId :

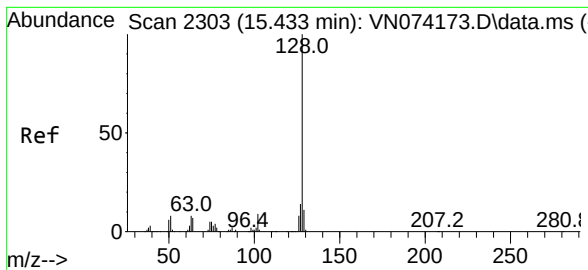
Tgt Ion: 75 Resp: 97343
Ion Ratio Lower Upper
75 100
77 1.9 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.802 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN074219.D
Acq: 31 Aug 2022 17:12

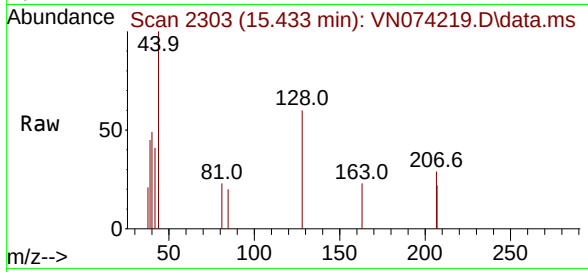
Tgt Ion: 75 Resp: 97343
Ion Ratio Lower Upper
75 100
53 0.2 78.0 117.0#
89 0.0 37.2 55.8#





#95
 Naphthalene
 Concen: 1.199 ug/l
 RT: 15.433 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN074219.D
 Acq: 31 Aug 2022 17:12

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	579
Ion	Ratio	Lower	Upper
128	100		
127	35.4	10.3	15.5#
129	0.0	8.6	13.0#

