

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021623\
 Data File : VN076714.D
 Acq On : 16 Feb 2023 16:15
 Operator : JC\MD
 Sample : 01537-20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

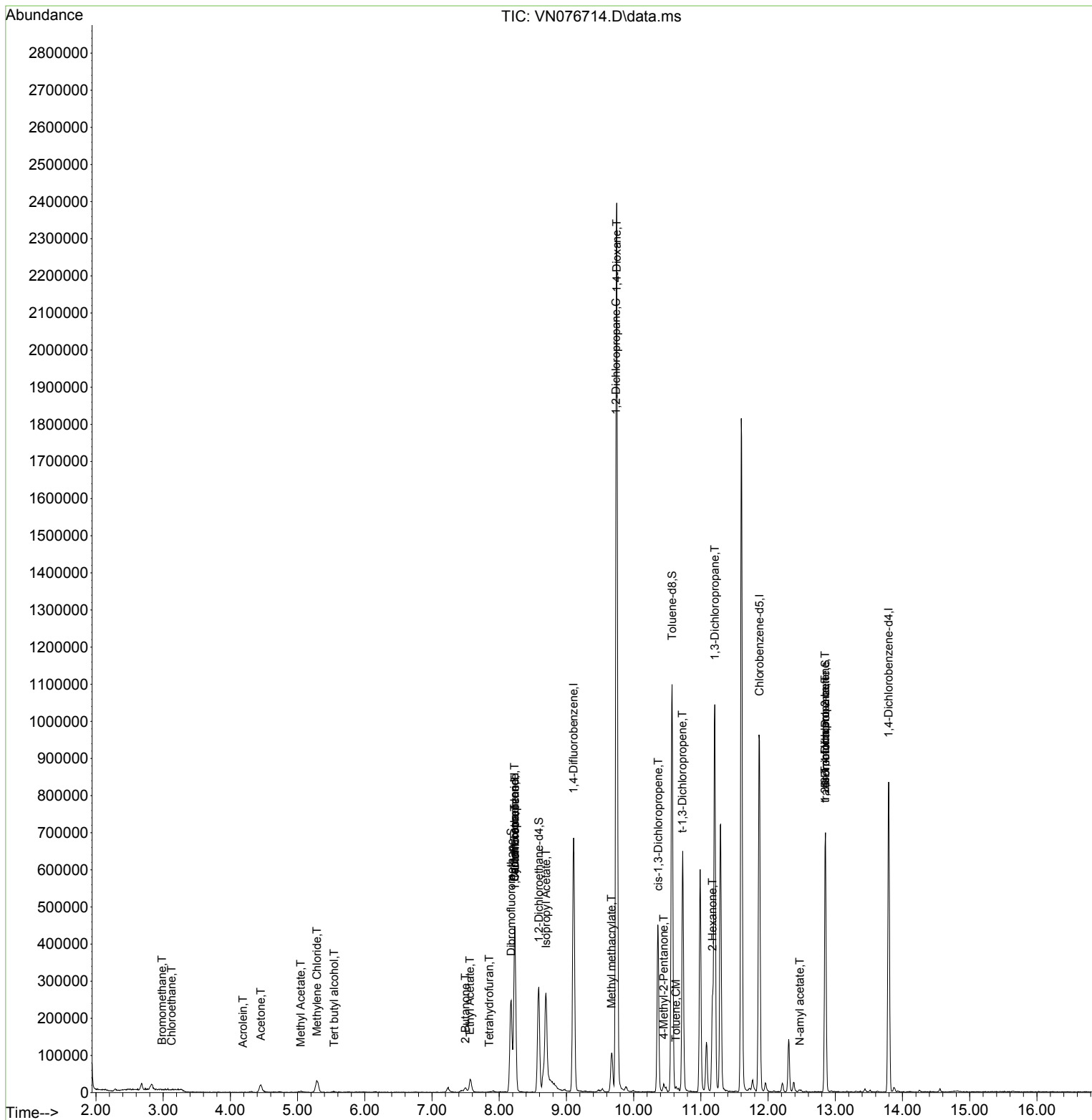
Quant Time: Feb 17 00:13:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

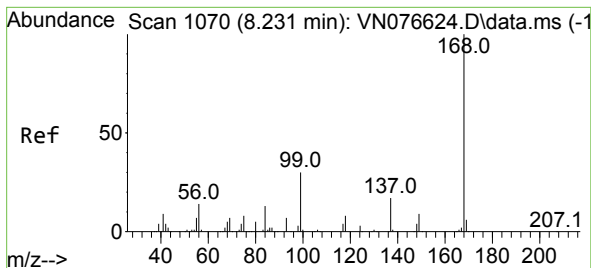
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.231	168	317604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	583202	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	554822	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	211020	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	223374	50.933	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.860%			
35) Dibromofluoromethane	8.178	113	175800	46.030	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.060%			
50) Toluene-d8	10.572	98	747907	52.436	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.880%			
62) 4-Bromofluorobenzene	12.854	95	228136	48.292	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.580%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.984	94	708	0.270	ug/l	93
6) Chloroethane	3.125	64	1247	0.456	ug/l #	44
11) Tert butyl alcohol	5.543	59	2269	3.920	ug/l #	87
13) Acrolein	4.190	56	190	0.219	ug/l #	14
16) Acetone	4.454	43	39197	20.009	ug/l	89
18) Methyl Acetate	5.048	43	3477	0.544	ug/l	92
20) Methylene Chloride	5.290	84	22700	5.529	ug/l #	86
25) 2-Butanone	7.495	43	18050	6.246	ug/l	97
29) Tetrahydrofuran	7.854	42	748	0.396	ug/l #	82
31) Cyclohexane	8.231	56	8983	1.306	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	29330	5.315	ug/l #	51
37) Ethyl Acetate	7.566	43	53217	9.166	ug/l	97
38) Carbon Tetrachloride	8.231	117	34070	6.120	ug/l #	16
43) Isopropyl Acetate	8.695	43	393785	41.681	ug/l #	78
45) 1,2-Dichloropropane	9.736	63	2995	0.668	ug/l #	44
48) Methyl methacrylate	9.672	41	8508	1.898	ug/l #	49
49) 1,4-Dioxane	9.748	88	233	3.005	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	20108	3.345	ug/l #	78
52) Toluene	10.630	92	3772	0.369	ug/l	93
53) t-1,3-Dichloropropene	10.725	75	1425	0.257	ug/l	94
54) cis-1,3-Dichloropropene	10.366	75	77427	12.095	ug/l #	61
57) 1,3-Dichloropropane	11.207	76	10287	1.439	ug/l #	42
59) 2-Hexanone	11.172	43	206629	47.675	ug/l #	27
71) Bromoform	12.854	173	2539	0.810	ug/l #	1
74) N-amyl acetate	12.472	43	5367	0.770	ug/l #	52
76) 1,2,3-Trichloropropane	12.848	75	122829	28.791	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	122829	83.856	ug/l #	4

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

Quant Time: Feb 17 00:13:58 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 14 01:44:47 2023
Response via : Initial Calibration

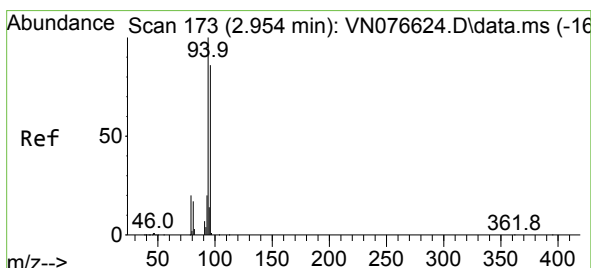
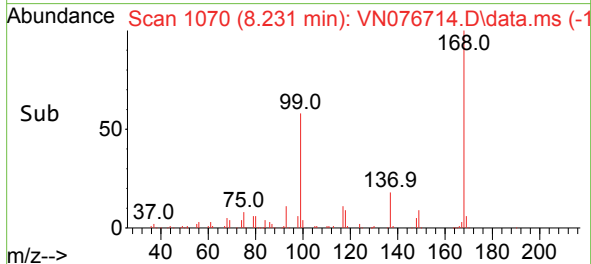
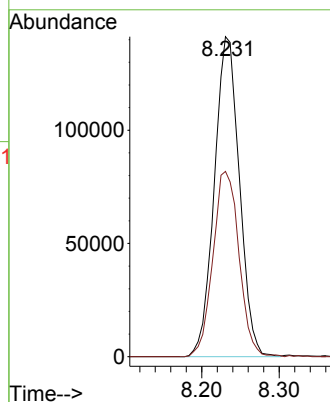
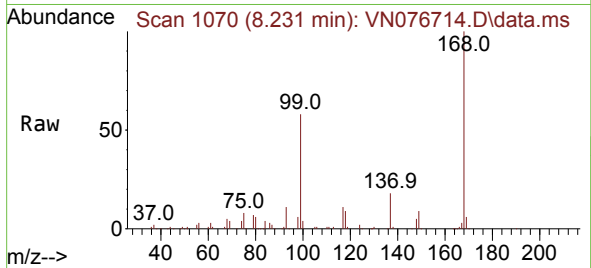




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

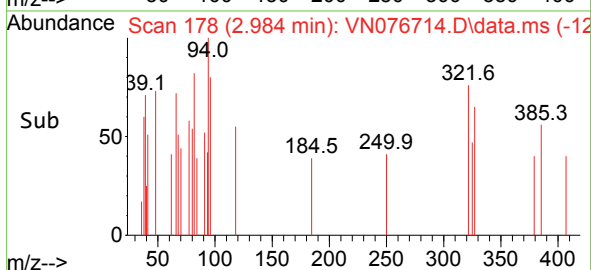
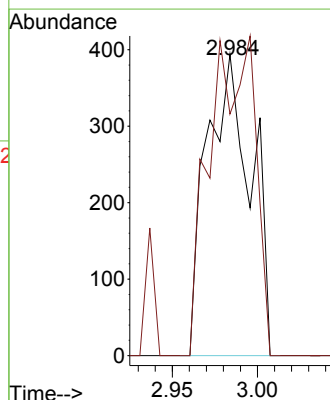
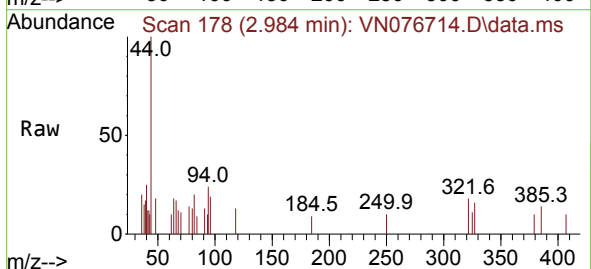
Instrument :
MSVOA_N
ClientSampleId :

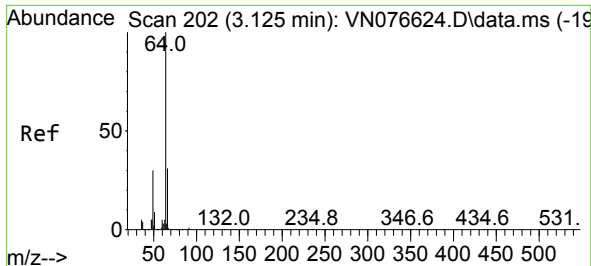
Tgt Ion:168 Resp: 317604
Ion Ratio Lower Upper
168 100
99 57.9 44.8 67.2



#5
Bromomethane
Concen: 0.270 ug/l
RT: 2.984 min Scan# 178
Delta R.T. 0.030 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 94 Resp: 708
Ion Ratio Lower Upper
94 100
96 80.2 69.0 103.4

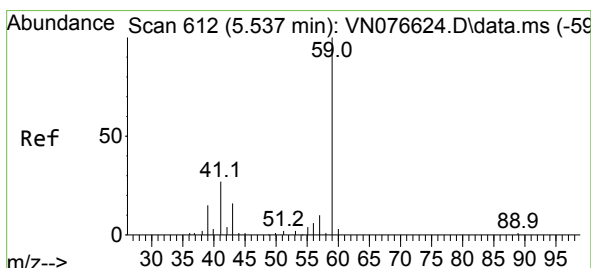
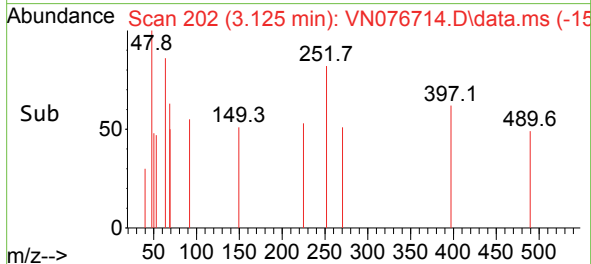
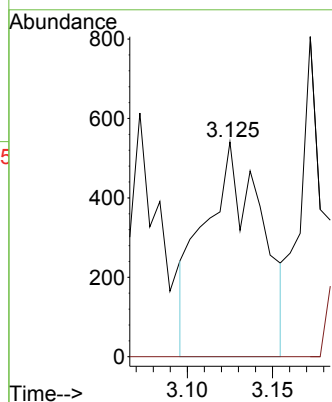
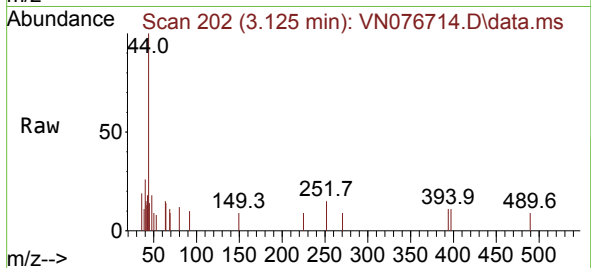




#6
Chloroethane
Concen: 0.456 ug/l
RT: 3.125 min Scan# 202
Delta R.T. 0.000 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

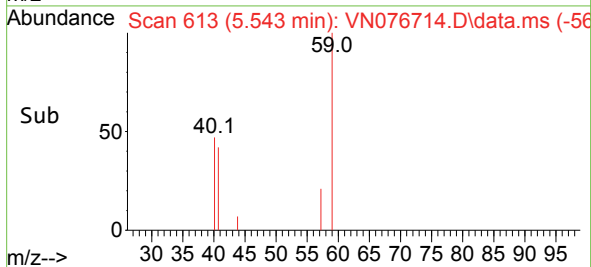
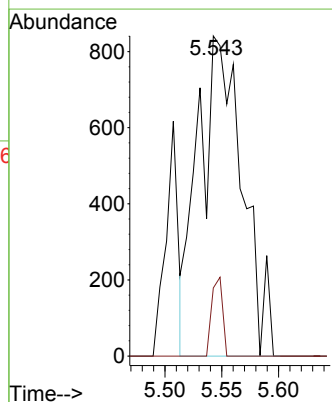
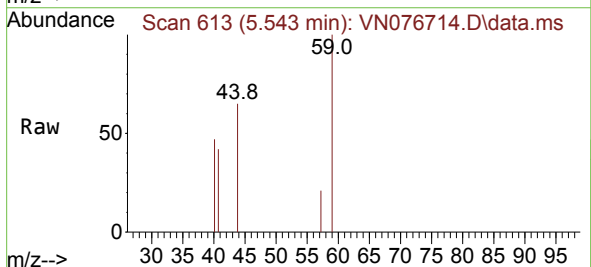
Instrument :
MSVOA_N
ClientSampleId :

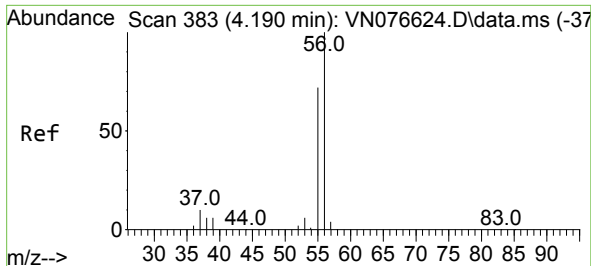
Tgt Ion: 64 Resp: 1247
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#



#11
Tert butyl alcohol
Concen: 3.920 ug/l
RT: 5.543 min Scan# 613
Delta R.T. 0.006 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

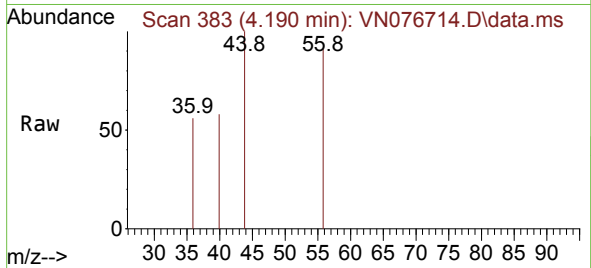
Tgt Ion: 59 Resp: 2269
Ion Ratio Lower Upper
59 100
57 6.0 8.7 13.1#



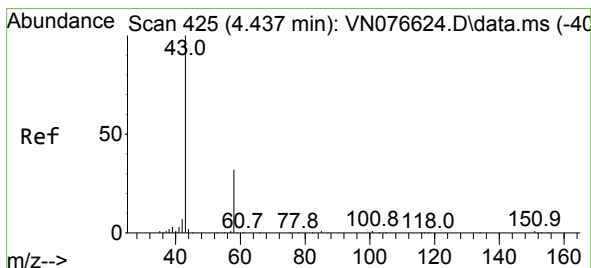
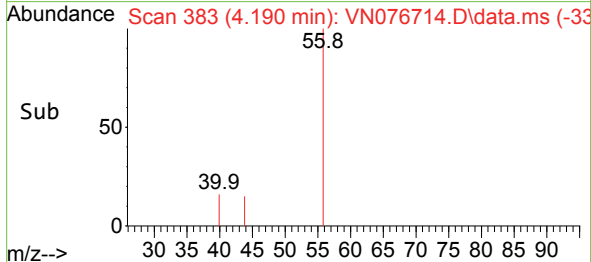
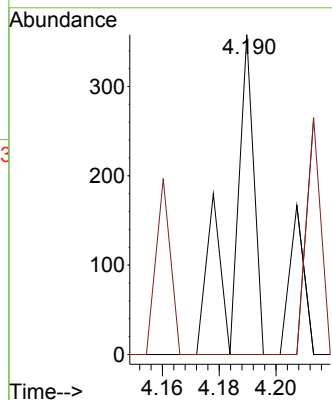


#13
Acrolein
Concen: 0.219 ug/l
RT: 4.190 min Scan# 383
Delta R.T. -0.000 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Instrument :
MSVOA_N
ClientSampleId :

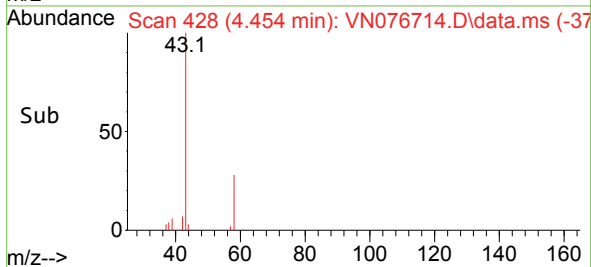
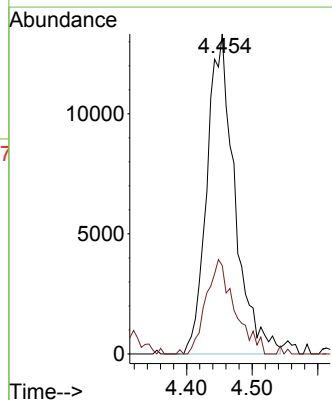
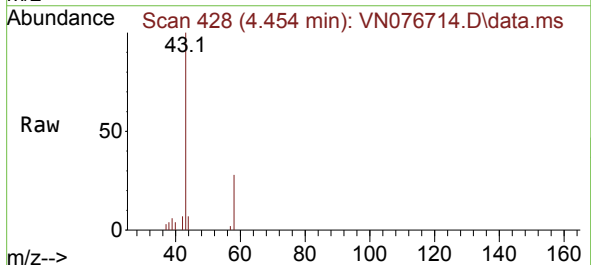


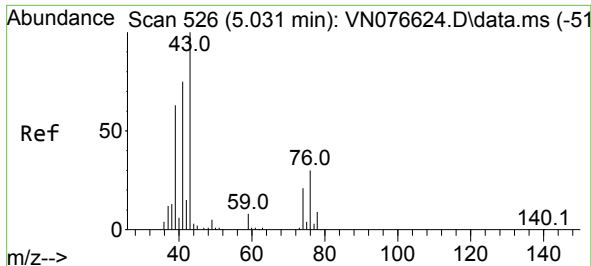
Tgt Ion: 56 Resp: 190
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 20.009 ug/l
RT: 4.454 min Scan# 428
Delta R.T. 0.017 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 43 Resp: 39197
Ion Ratio Lower Upper
43 100
58 26.3 25.9 38.9

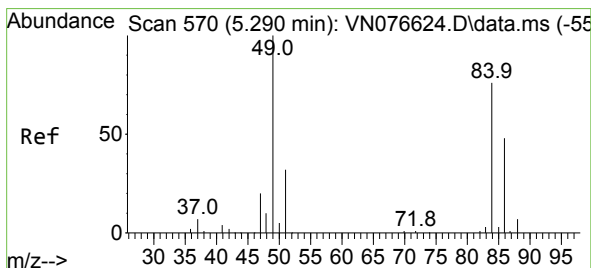
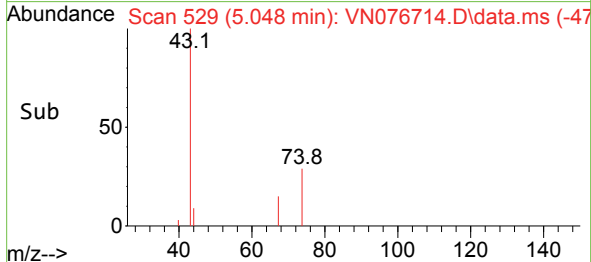
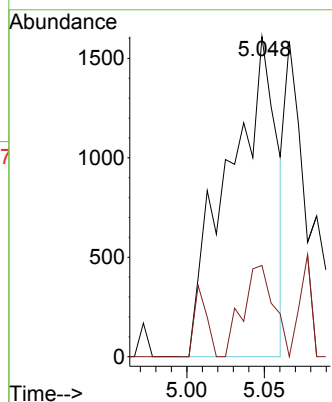
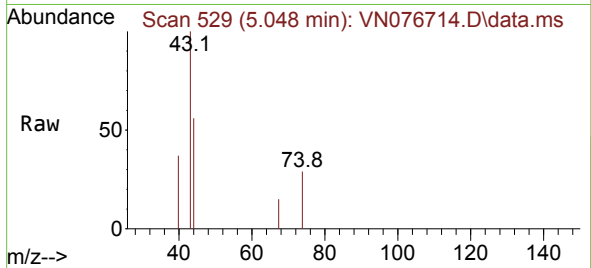




#18
Methyl Acetate
Concen: 0.544 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

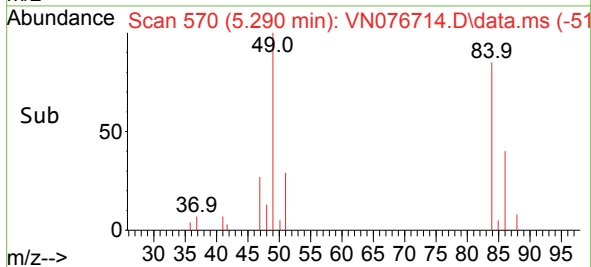
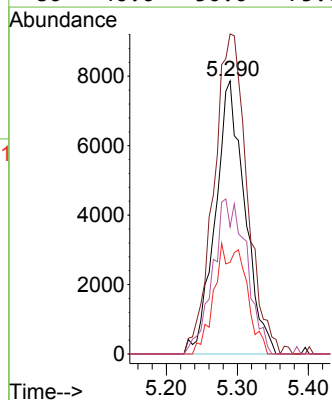
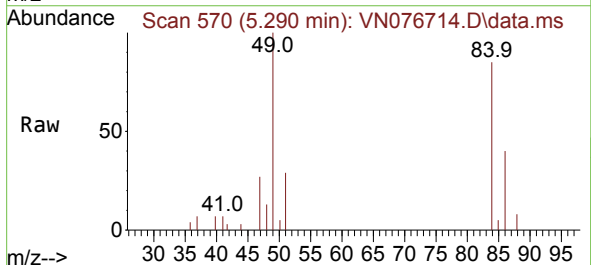
Instrument :
MSVOA_N
ClientSampleId :

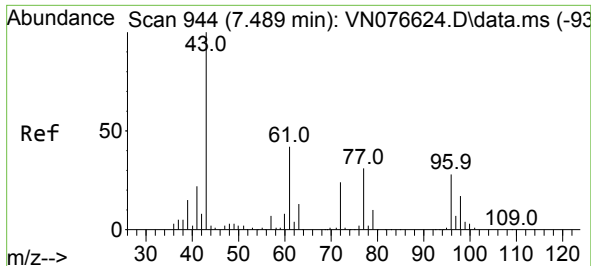
Tgt Ion: 43 Resp: 3477
Ion Ratio Lower Upper
43 100
74 18.3 17.7 26.5



#20
Methylene Chloride
Concen: 5.529 ug/l
RT: 5.290 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 84 Resp: 22700
Ion Ratio Lower Upper
84 100
49 117.2 104.9 157.3
51 33.6 33.8 50.8#
86 46.6 50.0 75.0#





#25

2-Butanone

Concen: 6.246 ug/l

RT: 7.495 min Scan# 944

Delta R.T. 0.006 min

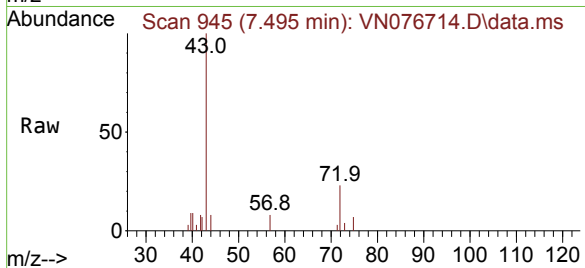
Lab File: VN076714.D

Acq: 16 Feb 2023 16:15

Instrument :

MSVOA_N

ClientSampleId :

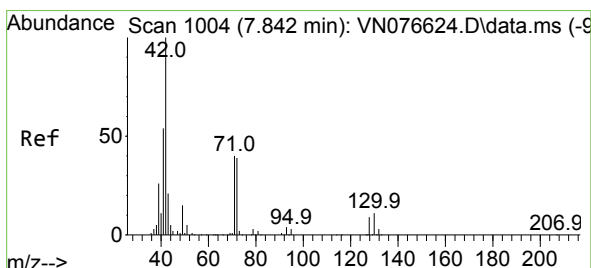
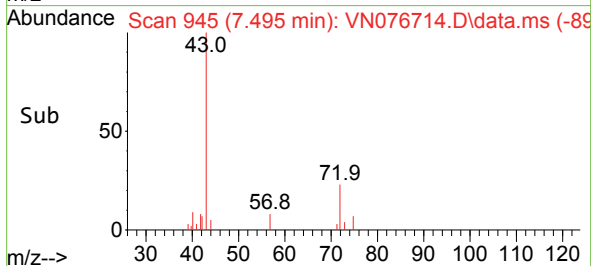
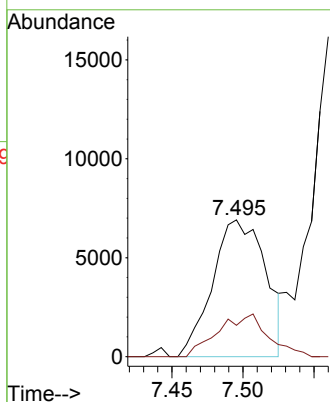


Tgt Ion: 43 Resp: 18050

Ion Ratio Lower Upper

43 100

72 23.0 19.4 29.2



#29

Tetrahydrofuran

Concen: 0.396 ug/l

RT: 7.854 min Scan# 1006

Delta R.T. 0.012 min

Lab File: VN076714.D

Acq: 16 Feb 2023 16:15

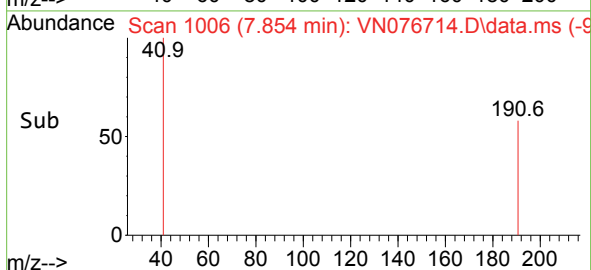
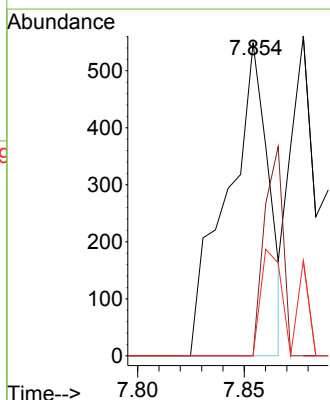
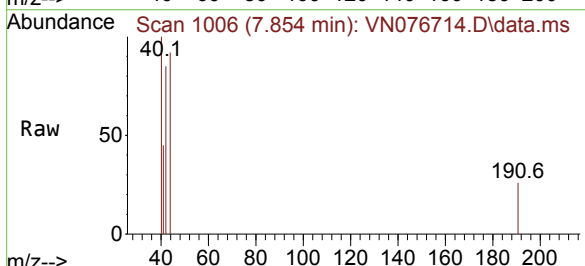
Tgt Ion: 42 Resp: 748

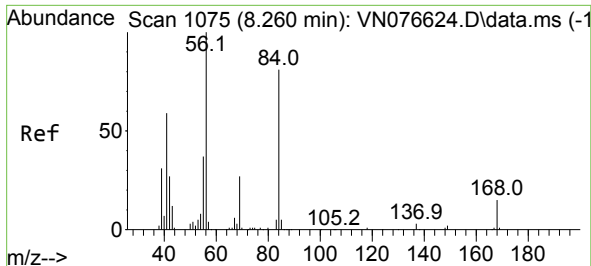
Ion Ratio Lower Upper

42 100

72 29.9 31.5 47.3#

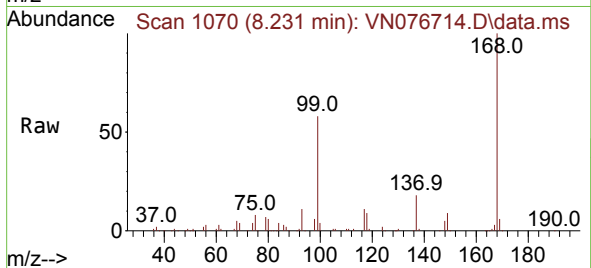
71 24.5 29.8 44.8#



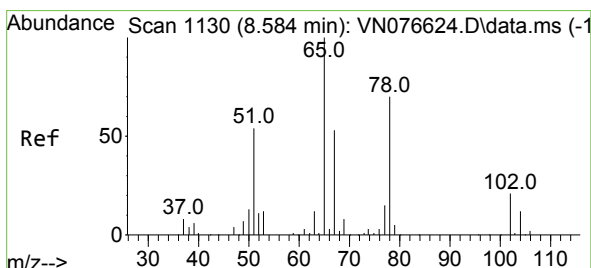
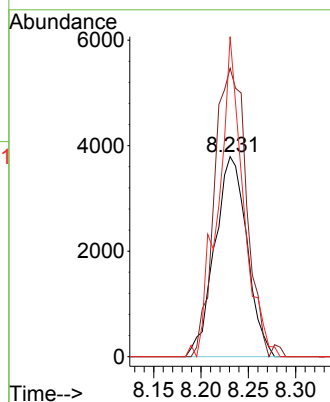
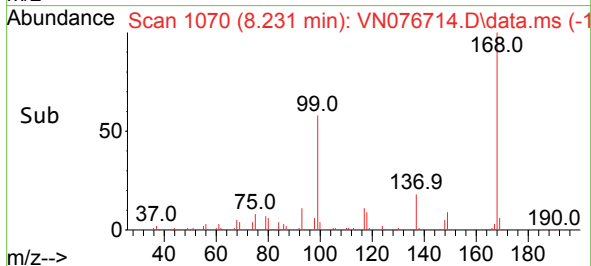


#31
Cyclohexane
Concen: 1.306 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Instrument :
MSVOA_N
ClientSampleId :

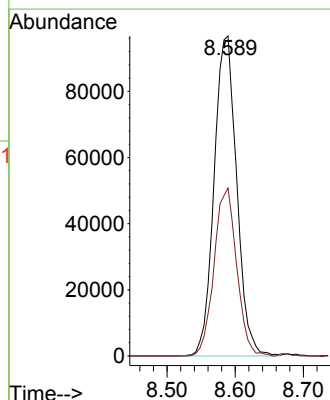
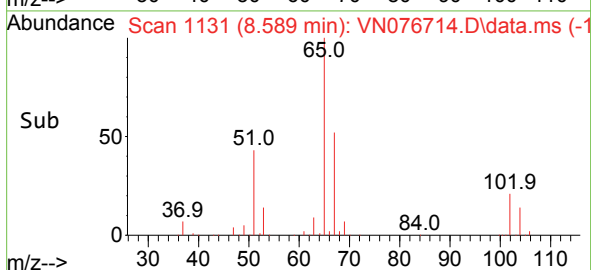
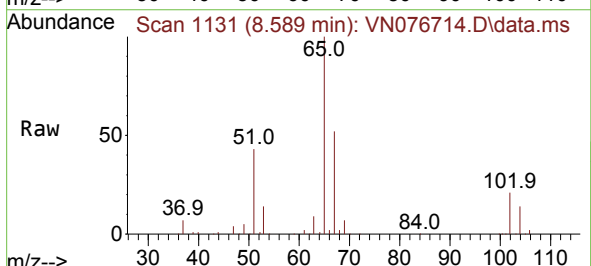


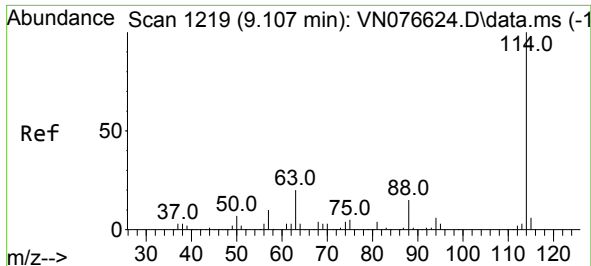
Tgt Ion: 56 Resp: 8983
Ion Ratio Lower Upper
56 100
69 144.2 21.6 32.4#
84 160.0 65.1 97.7#



#33
1,2-Dichloroethane-d4
Concen: 50.933 ug/l
RT: 8.589 min Scan# 1131
Delta R.T. 0.005 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 65 Resp: 223374
Ion Ratio Lower Upper
65 100
67 52.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN076714.D

Acq: 16 Feb 2023 16:15

Instrument :

MSVOA_N

ClientSampleId :

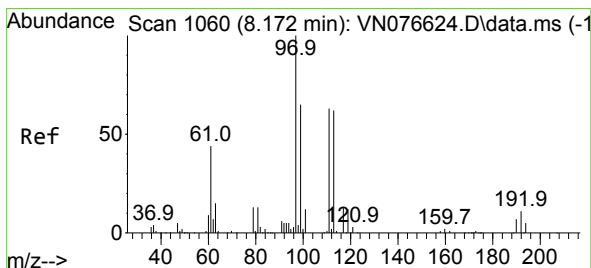
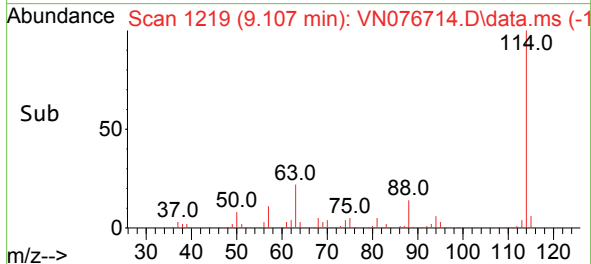
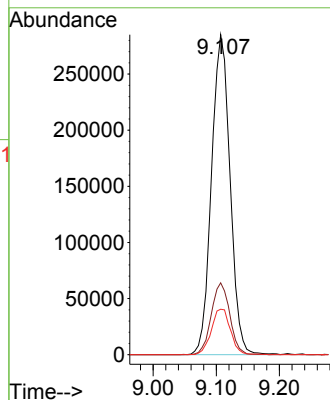
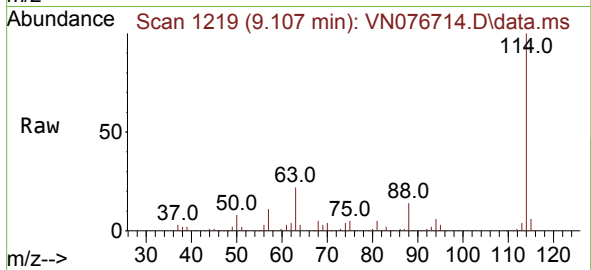
Tgt Ion:114 Resp: 583202

Ion Ratio Lower Upper

114 100

63 22.4 0.0 40.0

88 14.2 0.0 29.6



#35

Dibromofluoromethane

Concen: 46.030 ug/l

RT: 8.178 min Scan# 1061

Delta R.T. 0.006 min

Lab File: VN076714.D

Acq: 16 Feb 2023 16:15

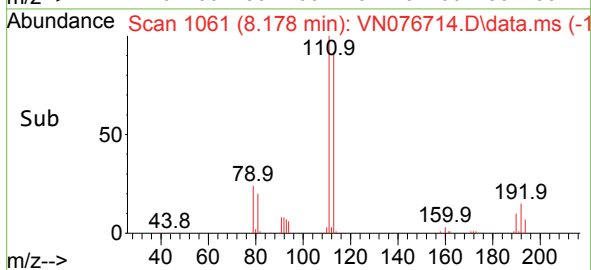
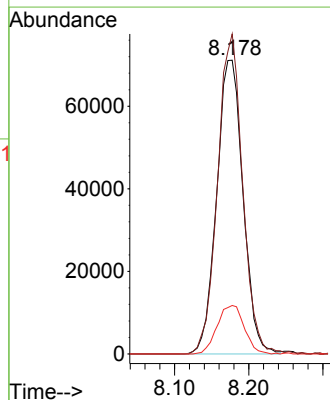
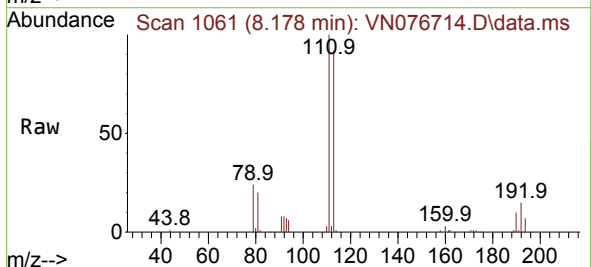
Tgt Ion:113 Resp: 175800

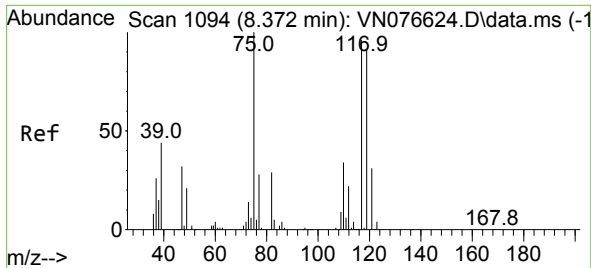
Ion Ratio Lower Upper

113 100

111 103.7 83.1 124.7

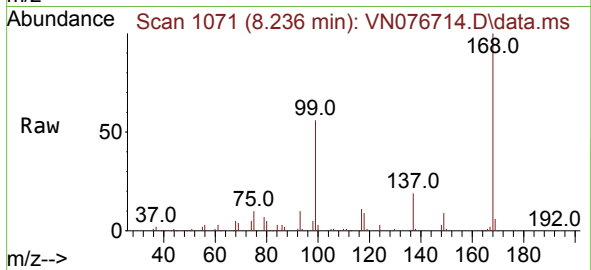
192 17.0 15.6 23.4



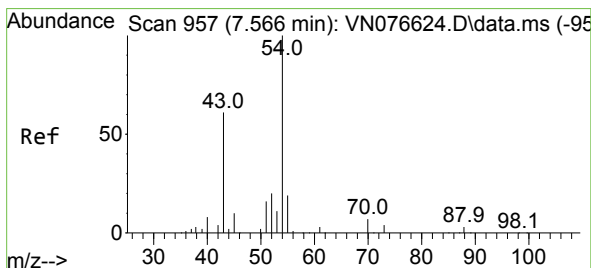
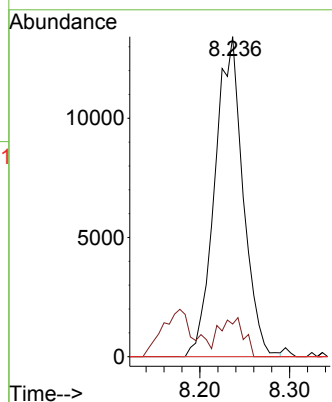
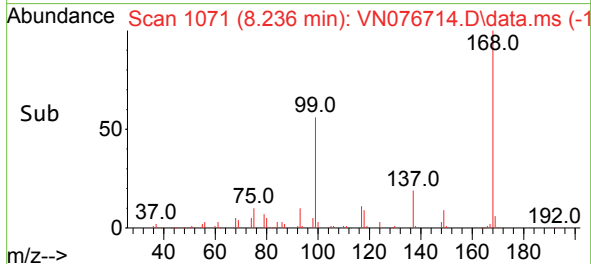


#36
1,1-Dichloropropene
Concen: 5.315 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.136 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Instrument :
MSVOA_N
ClientSampleId :

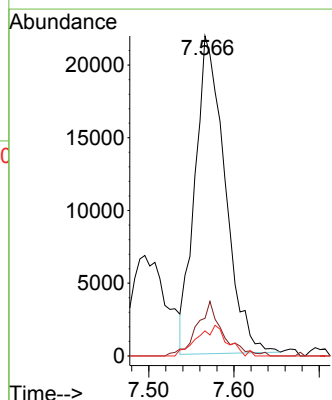
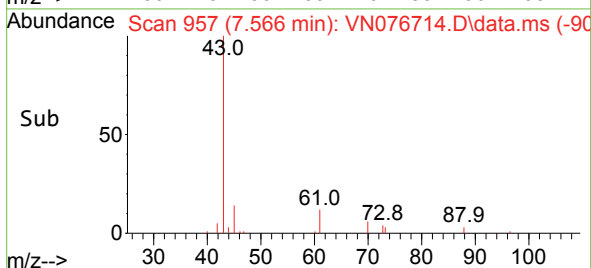
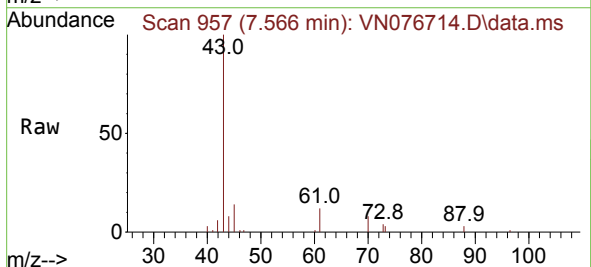


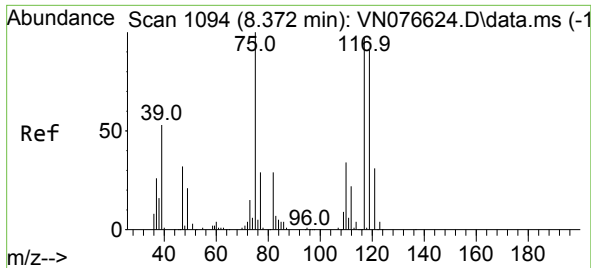
Tgt Ion: 75 Resp: 29330
Ion Ratio Lower Upper
75 100
110 10.3 17.5 52.5#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 9.166 ug/l
RT: 7.566 min Scan# 957
Delta R.T. -0.000 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

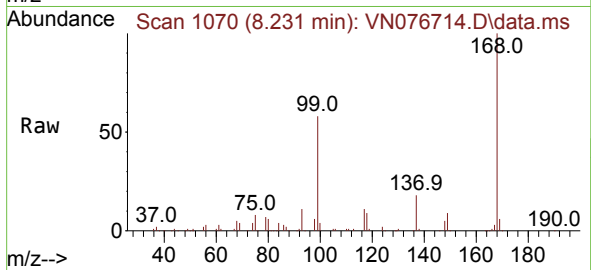
Tgt Ion: 43 Resp: 53217
Ion Ratio Lower Upper
43 100
61 14.8 9.9 14.9
70 9.7 7.8 11.6



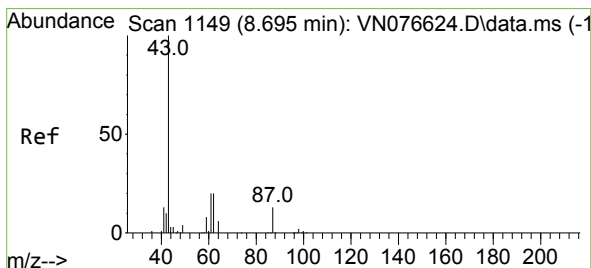
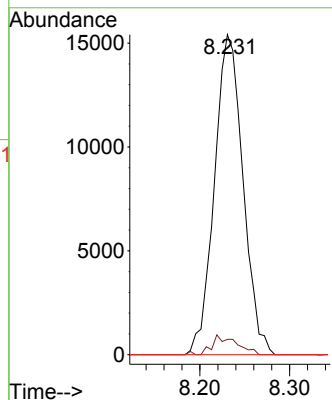
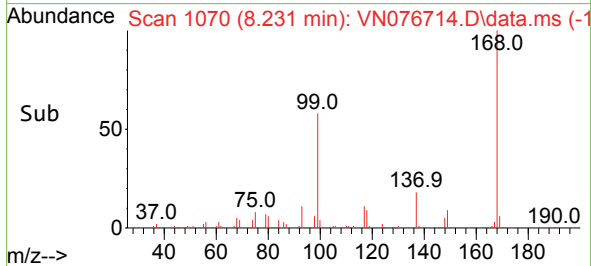


#38
Carbon Tetrachloride
Concen: 6.120 ug/l
RT: 8.231 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Instrument :
MSVOA_N
ClientSampleId :

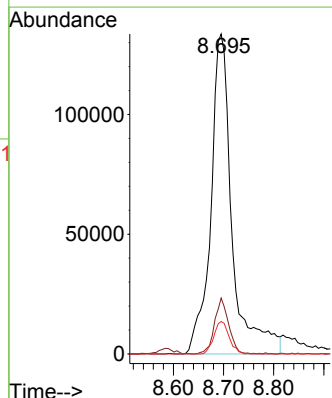
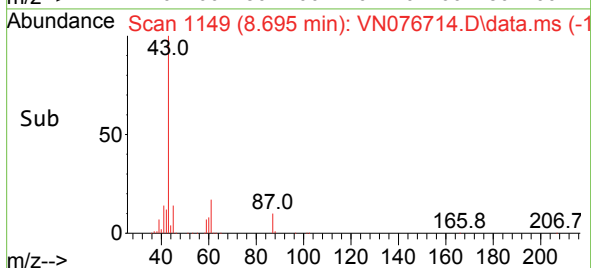
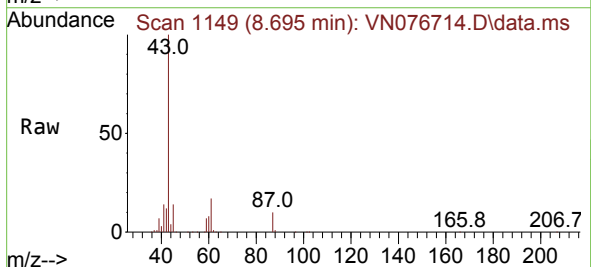


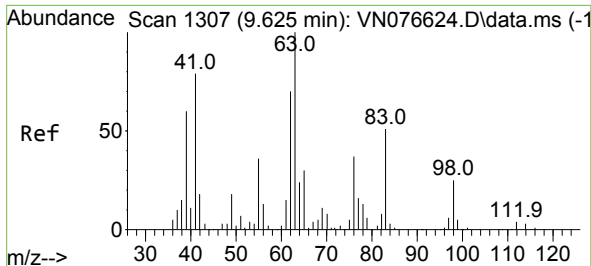
Tgt Ion:117 Resp: 34070
Ion Ratio Lower Upper
117 100
119 4.8 75.4 113.0#
121 0.0 26.0 39.0#



#43
Isopropyl Acetate
Concen: 41.681 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 43 Resp: 393785
Ion Ratio Lower Upper
43 100
61 11.7 20.0 30.0#
87 7.3 9.9 14.9#

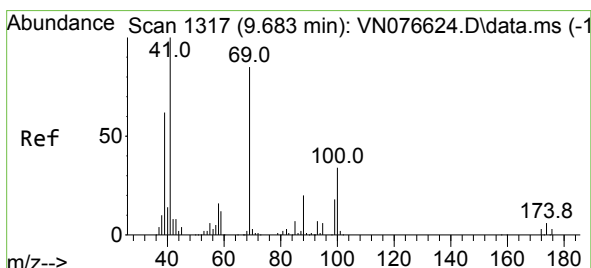
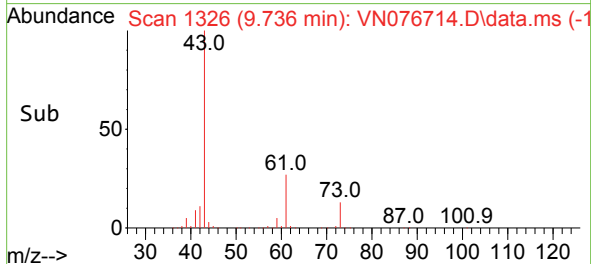
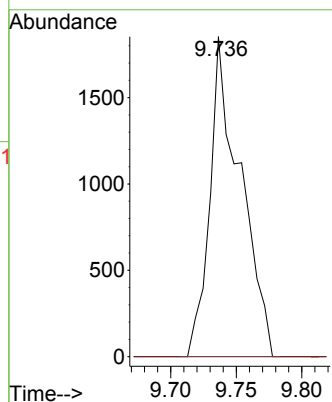
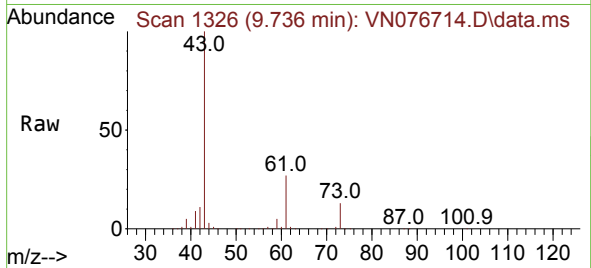




#45
1,2-Dichloropropane
Concen: 0.668 ug/l
RT: 9.736 min Scan# 11
Delta R.T. 0.111 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

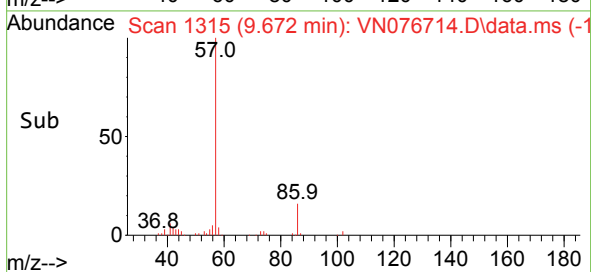
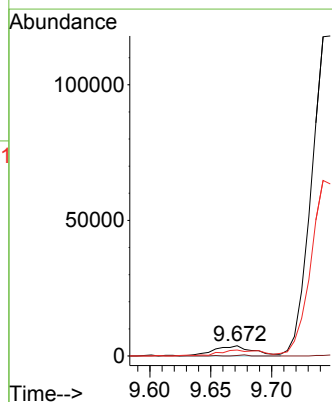
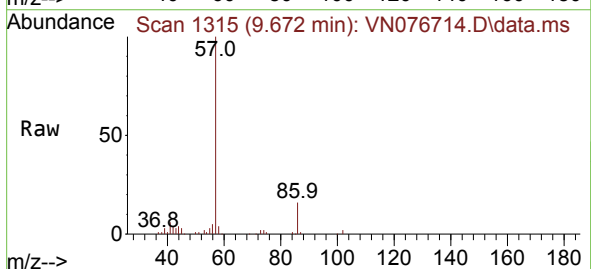
Instrument :
MSVOA_N
ClientSampleId :

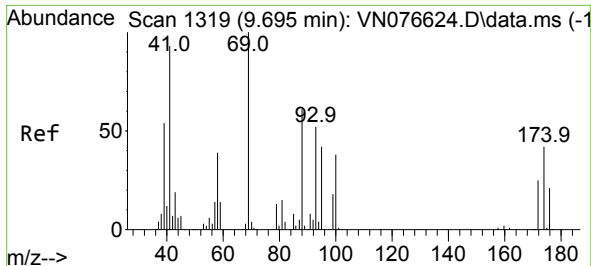
Tgt Ion: 63 Resp: 2995
Ion Ratio Lower Upper
63 100
65 0.0 24.2 36.2#



#48
Methyl methacrylate
Concen: 1.898 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.011 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 41 Resp: 8508
Ion Ratio Lower Upper
41 100
69 2.5 65.4 98.0#
39 63.0 49.3 73.9





#49

1,4-Dioxane

Concen: 3.005 ug/l

RT: 9.748 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN076714.D

Acq: 16 Feb 2023 16:15

Instrument :

MSVOA_N

ClientSampleId :

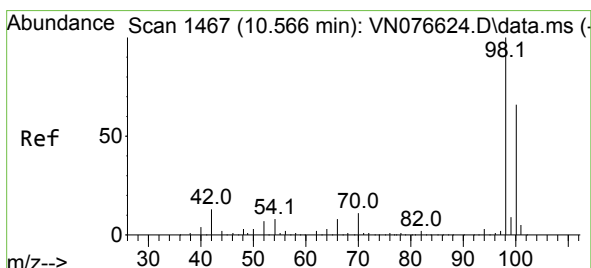
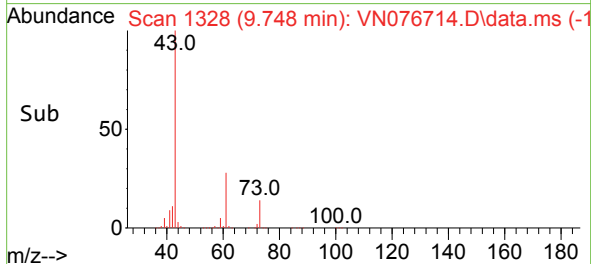
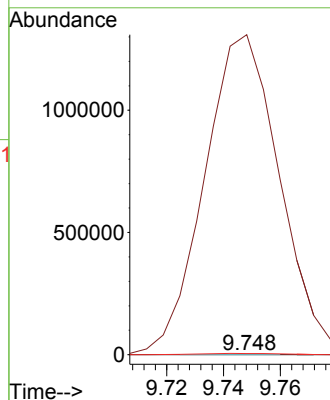
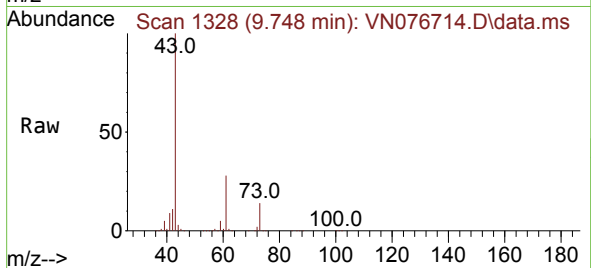
Tgt Ion: 88 Resp: 233

Ion Ratio Lower Upper

88 100

43 1044025.8 22.6 33.8#

58 4688.8 57.6 86.4#



#50

Toluene-d8

Concen: 52.436 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN076714.D

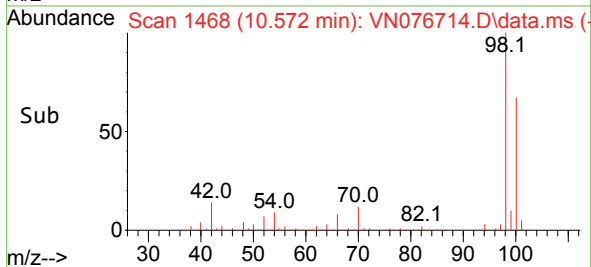
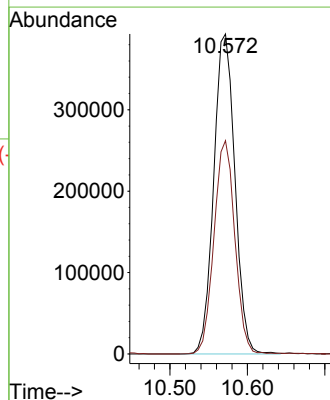
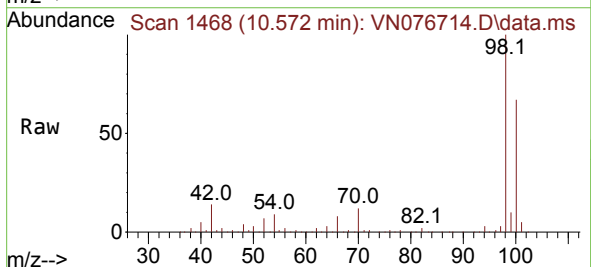
Acq: 16 Feb 2023 16:15

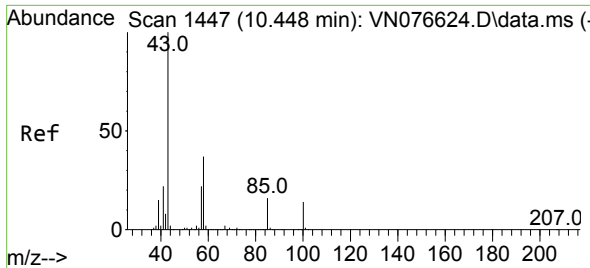
Tgt Ion: 98 Resp: 747907

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3

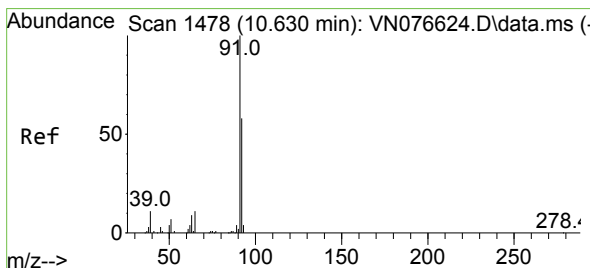
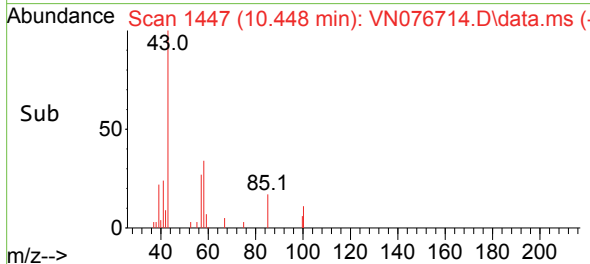
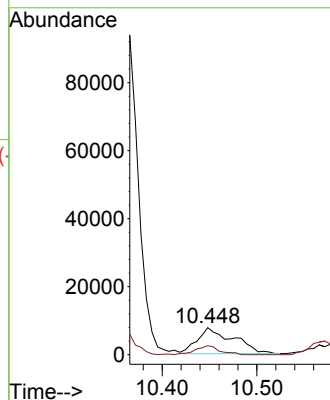
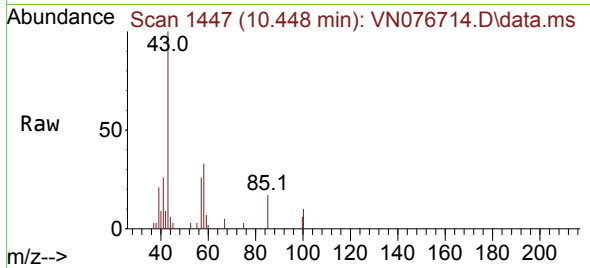




#51
4-Methyl-2-Pentanone
Concen: 3.345 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

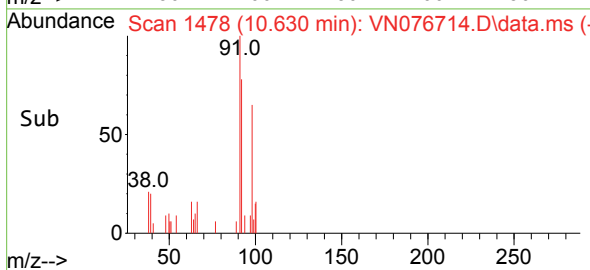
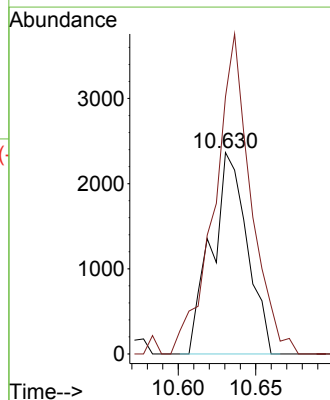
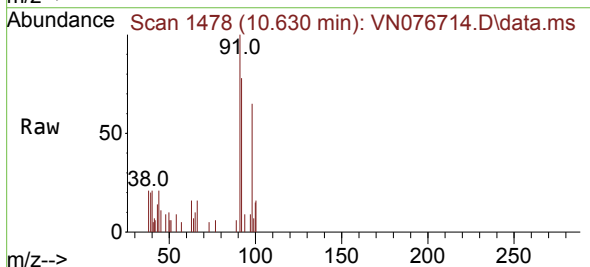
Instrument :
MSVOA_N
ClientSampleId :

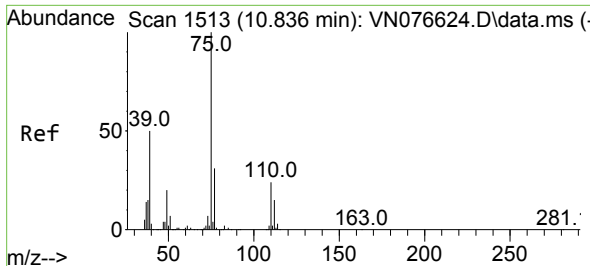
Tgt Ion: 43 Resp: 20108
Ion Ratio Lower Upper
43 100
58 23.8 29.5 44.3#



#52
Toluene
Concen: 0.369 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 92 Resp: 3772
Ion Ratio Lower Upper
92 100
91 162.7 138.0 207.0

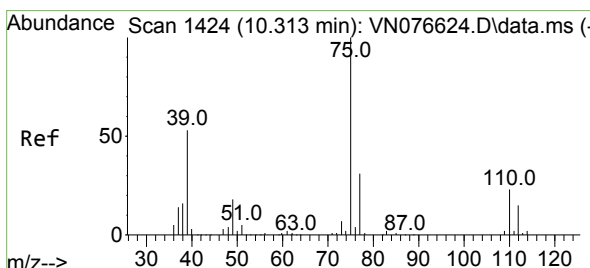
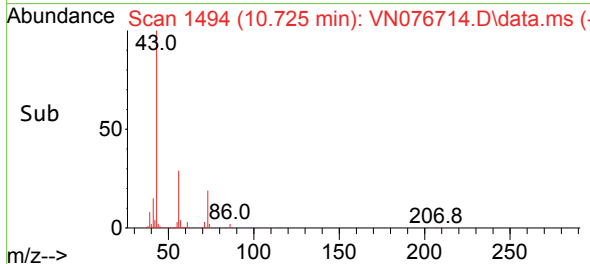
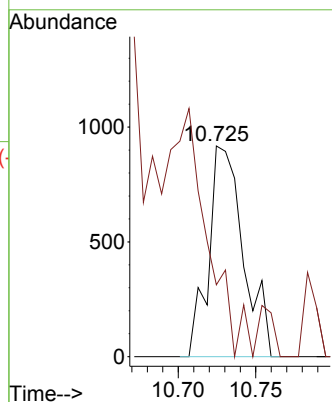
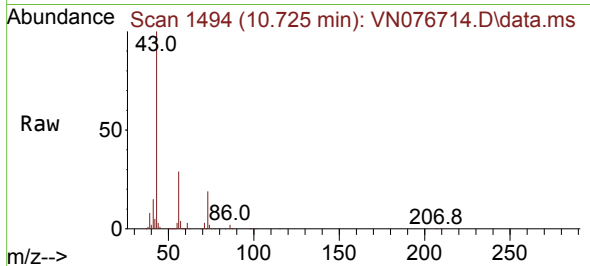




#53
t-1,3-Dichloropropene
Concen: 0.257 ug/l
RT: 10.725 min Scan# 1425
Delta R.T. -0.111 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

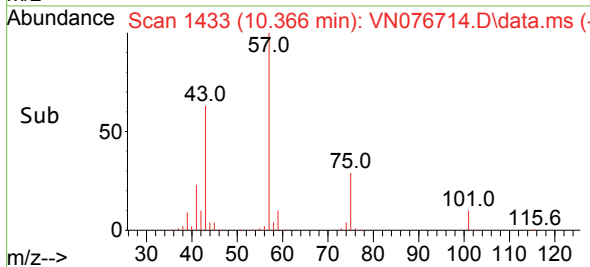
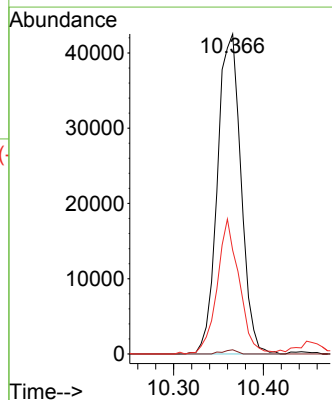
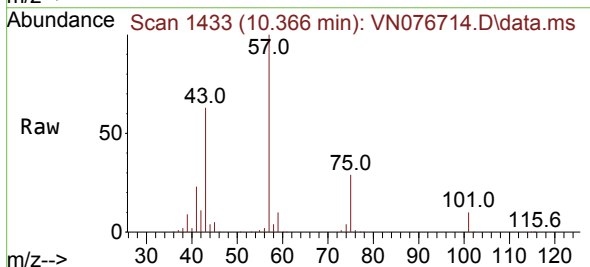
Instrument :
MSVOA_N
ClientSampleId :

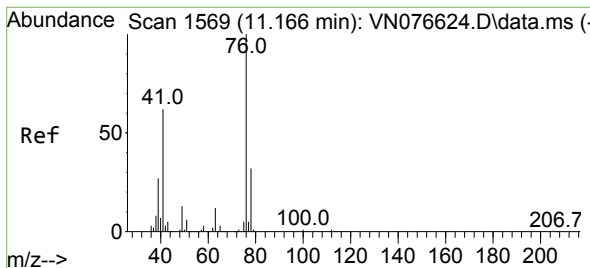
Tgt Ion: 75 Resp: 1425
Ion Ratio Lower Upper
75 100
77 34.1 24.6 37.0



#54
cis-1,3-Dichloropropene
Concen: 12.095 ug/l
RT: 10.366 min Scan# 1433
Delta R.T. 0.053 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 75 Resp: 77427
Ion Ratio Lower Upper
75 100
77 1.3 25.1 37.7#
39 31.8 42.3 63.5#





#57

1,3-Dichloropropane

Concen: 1.439 ug/l

RT: 11.207 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN076714.D

Acq: 16 Feb 2023 16:15

Instrument :

MSVOA_N

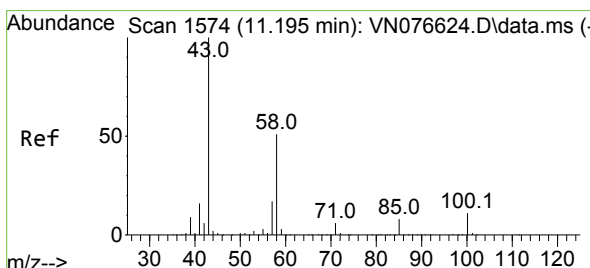
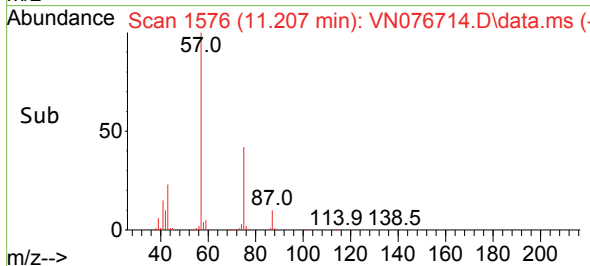
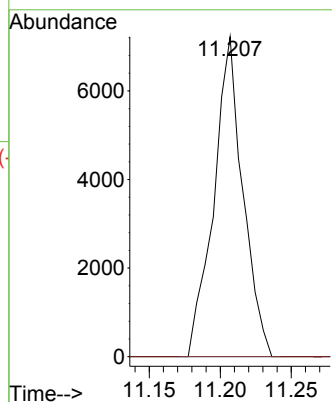
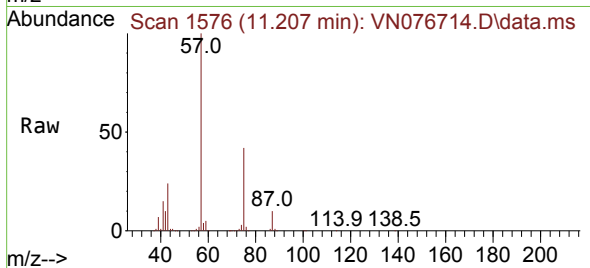
ClientSampleId :

Tgt Ion: 76 Resp: 10287

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 47.675 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN076714.D

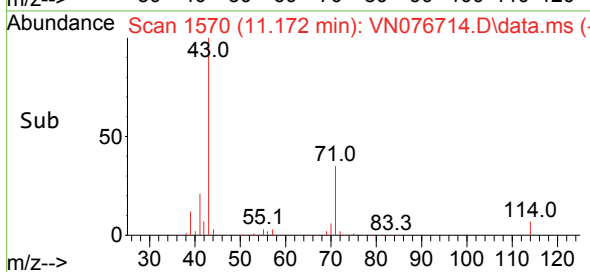
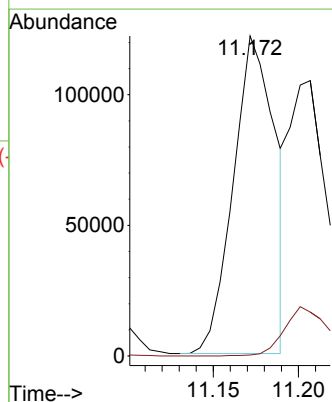
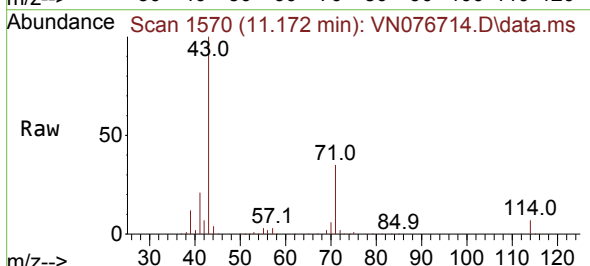
Acq: 16 Feb 2023 16:15

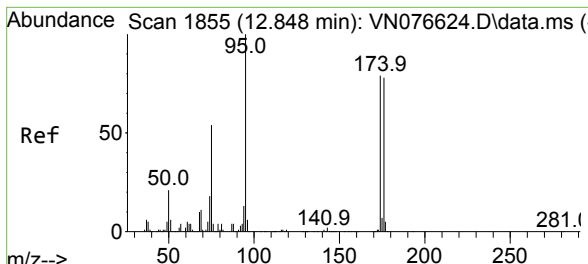
Tgt Ion: 43 Resp: 206629

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.0#

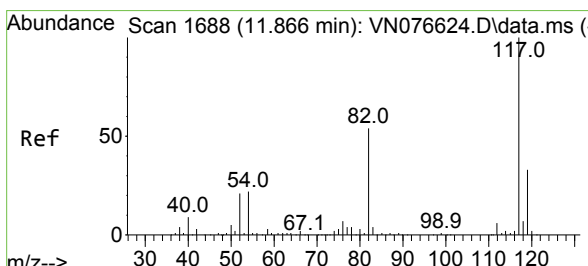
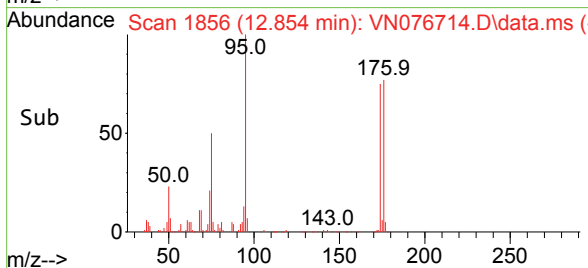
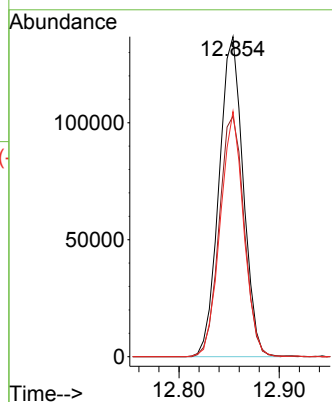
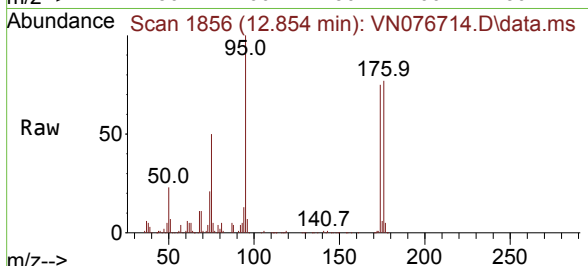




#62
4-Bromofluorobenzene
Concen: 48.292 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

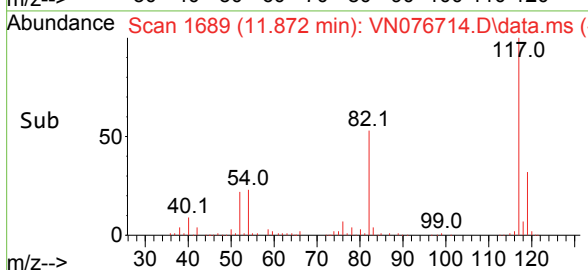
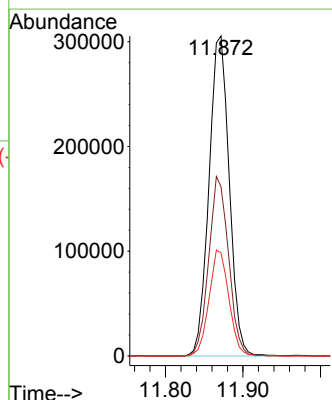
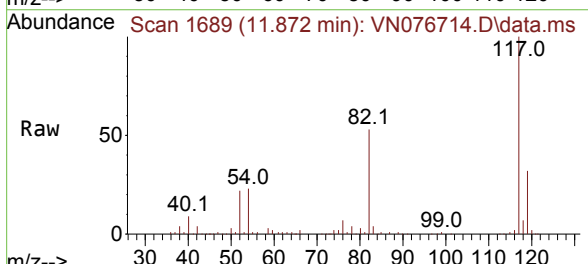
Instrument :
MSVOA_N
ClientSampleId :

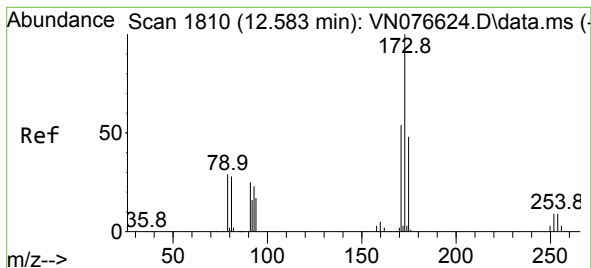
Tgt Ion: 95 Resp: 228136
Ion Ratio Lower Upper
95 100
174 77.7 0.0 169.2
176 74.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

Tgt Ion: 117 Resp: 554822
Ion Ratio Lower Upper
117 100
82 52.9 43.4 65.2
119 32.2 26.1 39.1





#71

Bromoform

Concen: 0.810 ug/l

RT: 12.854 min Scan# 1810

Delta R.T. 0.271 min

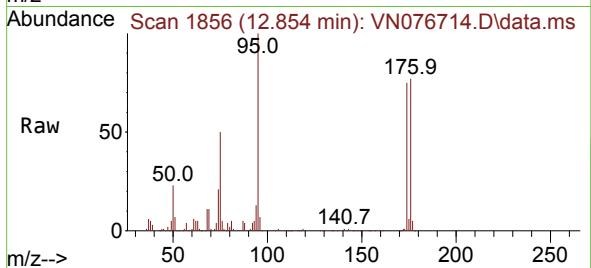
Lab File: VN076714.D

Acq: 16 Feb 2023 16:15

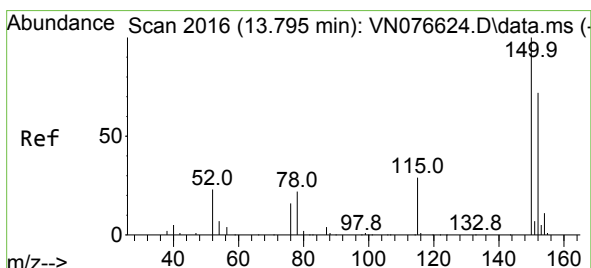
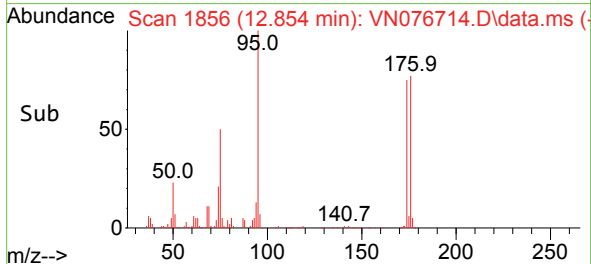
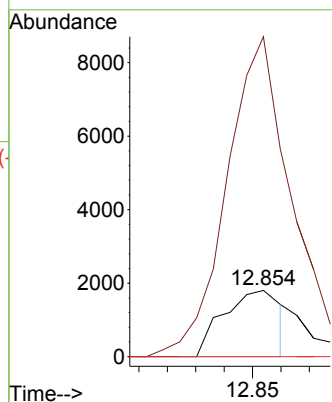
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	2539
Ion Ratio	Lower	Upper	
173	100		
175	438.2	24.9	74.7#
254	0.0	0.1	0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

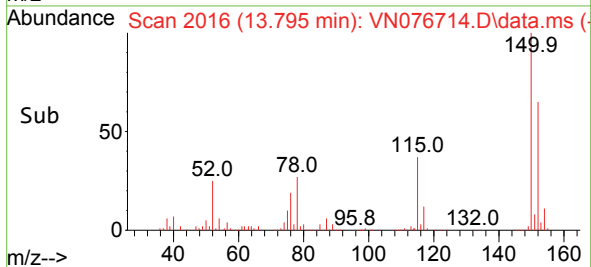
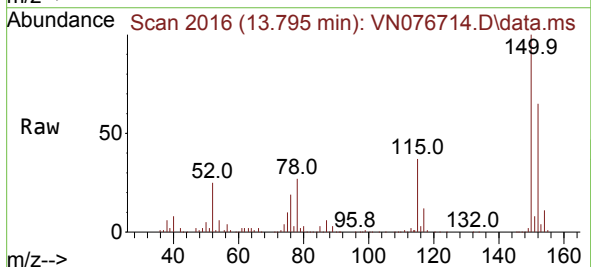
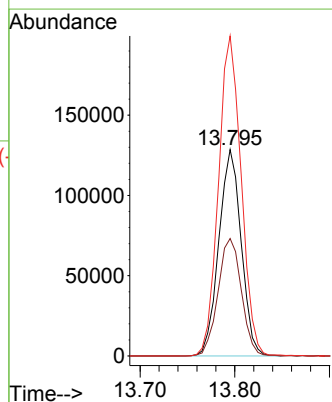
RT: 13.795 min Scan# 2016

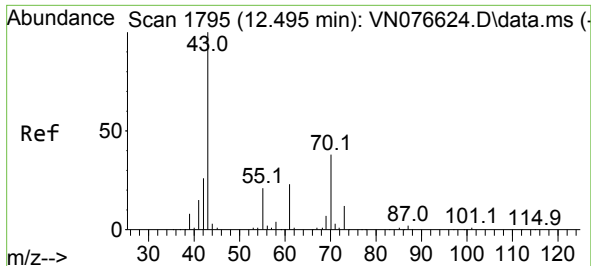
Delta R.T. -0.000 min

Lab File: VN076714.D

Acq: 16 Feb 2023 16:15

Tgt Ion:	152	Resp:	211020
Ion Ratio	Lower	Upper	
152	100		
115	59.5	29.3	87.9
150	157.3	0.0	349.8

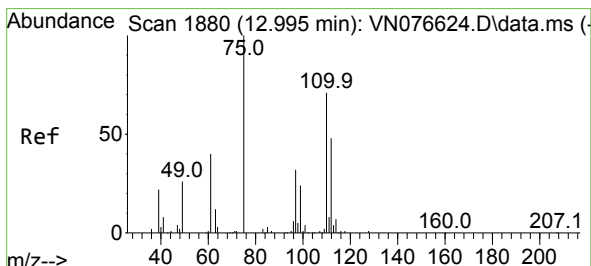
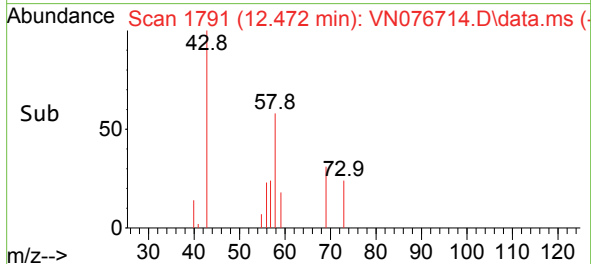
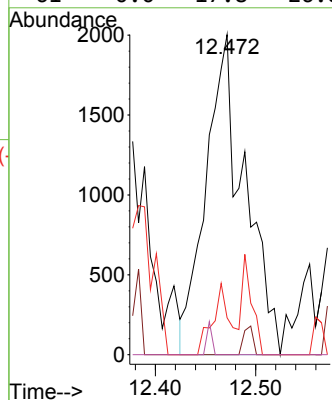
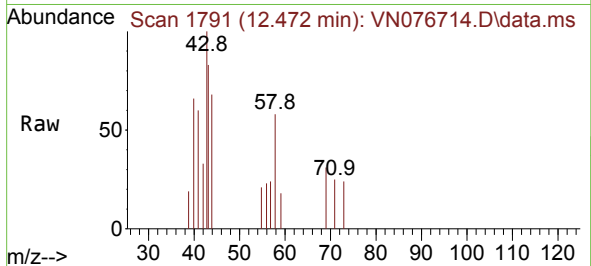




#74
N-amy1 acetate
Concen: 0.770 ug/l
RT: 12.472 min Scan# 1791
Delta R.T. -0.023 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

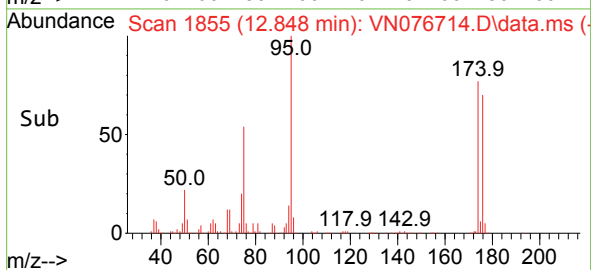
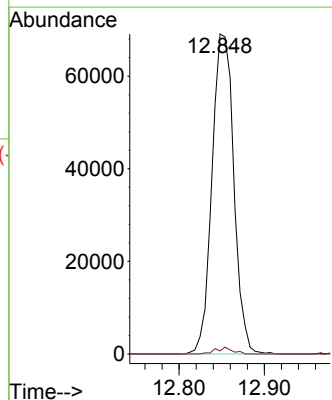
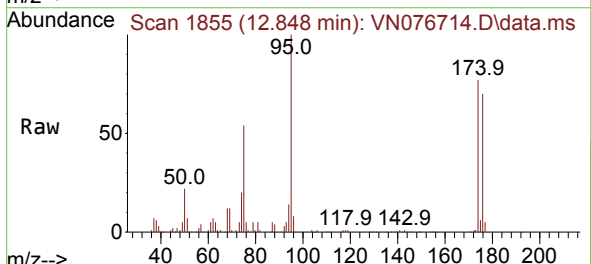
Instrument :
MSVOA_N
ClientSampleId :

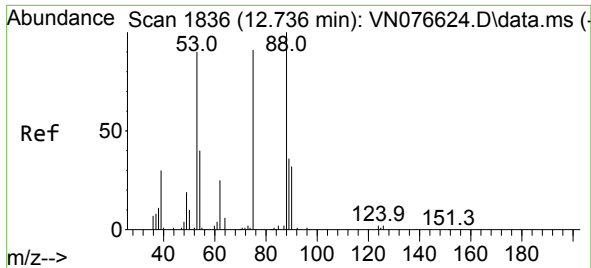
Tgt Ion: 43	Resp: 5367
Ion Ratio	Lower Upper
43 100	
70 0.0	30.5 45.7#
55 10.2	17.8 26.8#
61 0.0	17.8 26.8#



#76
1,2,3-Trichloropropane
Concen: 28.791 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN076714.D
Acq: 16 Feb 2023 16:15

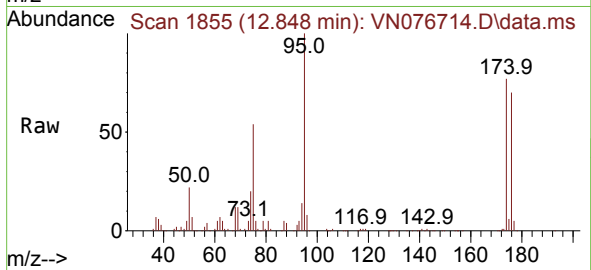
Tgt Ion: 75	Resp: 122829
Ion Ratio	Lower Upper
75 100	
77 1.6	93.1 279.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.856 ug/l
 RT: 12.848 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN076714.D
 Acq: 16 Feb 2023 16:15

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 122829
 Ion Ratio Lower Upper
 75 100
 53 0.1 92.1 138.1#
 89 0.0 37.5 56.3#

