

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021623\
 Data File : VN076717.D
 Acq On : 16 Feb 2023 17:28
 Operator : JC\MD
 Sample : 01538-20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 17 00:15:43 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

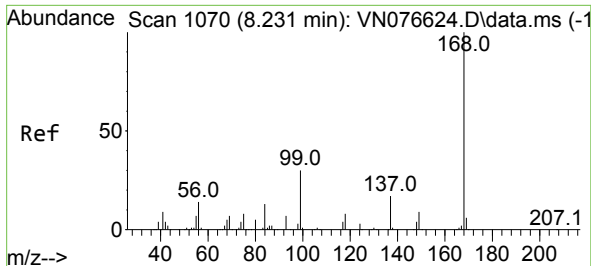
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.231	168	299331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	559308	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	545455	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	206876	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	214620	51.924	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.840%			
35) Dibromofluoromethane	8.178	113	168622	46.036	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.080%			
50) Toluene-d8	10.572	98	711838	52.039	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.080%			
62) 4-Bromofluorobenzene	12.854	95	220367	48.641	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.280%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.543	59	2397	4.393	ug/l #	71
16) Acetone	4.454	43	35843	19.413	ug/l	90
18) Methyl Acetate	5.037	43	5644	0.937	ug/l	96
20) Methylene Chloride	5.290	84	21932	5.668	ug/l	86
25) 2-Butanone	7.501	43	18202	6.683	ug/l	95
31) Cyclohexane	8.225	56	9340	1.441	ug/l #	19
36) 1,1-Dichloropropene	8.231	75	26878	5.079	ug/l #	53
37) Ethyl Acetate	7.578	43	52877	9.496	ug/l	98
38) Carbon Tetrachloride	8.231	117	31242	5.852	ug/l #	19
42) 1,2-Dichloroethane	8.678	62	1598	0.282	ug/l #	74
43) Isopropyl Acetate	8.695	43	369762	40.810	ug/l #	80
45) 1,2-Dichloropropane	9.742	63	3104	0.722	ug/l #	44
48) Methyl methacrylate	9.672	41	8200	1.907	ug/l #	44
49) 1,4-Dioxane	9.689	88	101	1.358	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	11983	2.079	ug/l	89
52) Toluene	10.631	92	3778	0.385	ug/l	97
53) t-1,3-Dichloropropene	10.725	75	1509	0.284	ug/l	92
54) cis-1,3-Dichloropropene	10.360	75	73568	11.983	ug/l #	69
56) Ethyl methacrylate	10.983	69	2449	0.436	ug/l #	1
57) 1,3-Dichloropropane	11.201	76	10096	1.473	ug/l #	42
59) 2-Hexanone	11.172	43	205777	49.507	ug/l #	27
71) Bromoform	12.842	173	3040	0.987	ug/l #	1
74) N-amyl acetate	12.472	43	4284	0.627	ug/l #	48
76) 1,2,3-Trichloropropane	12.854	75	124949	29.875	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	124949	87.012	ug/l #	4

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

Quant Time: Feb 17 00:15:43 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
Quant Title : SW846 8260
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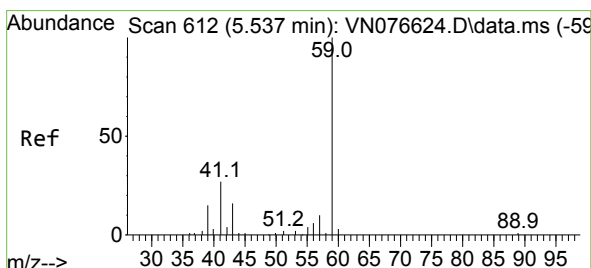
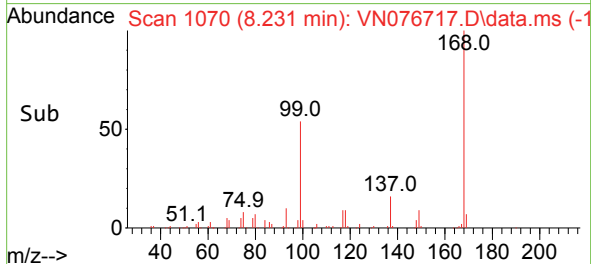
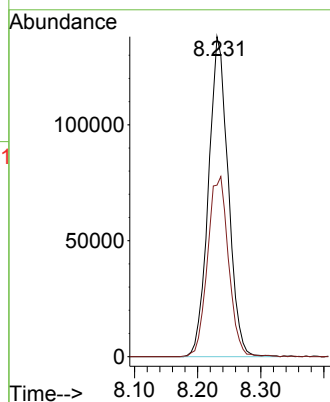
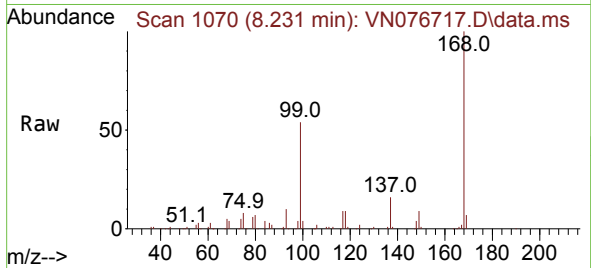




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

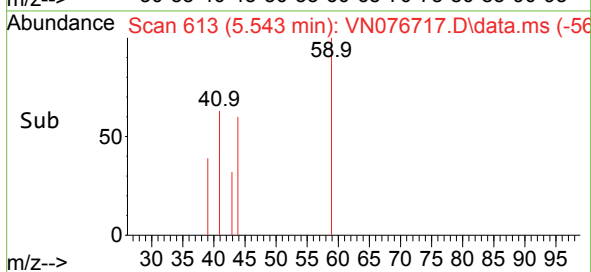
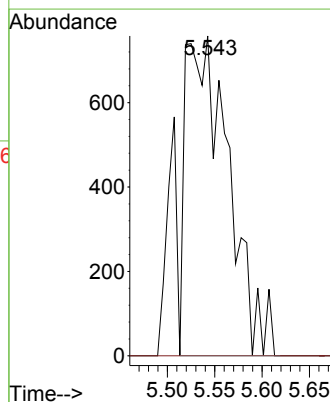
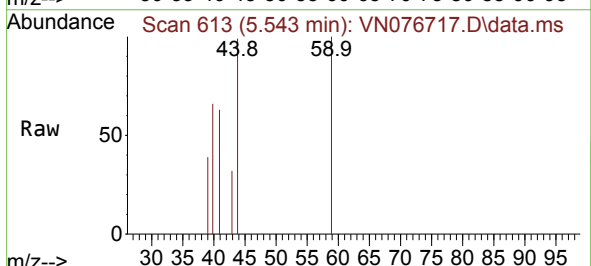
Instrument :
MSVOA_N
ClientSampleId :

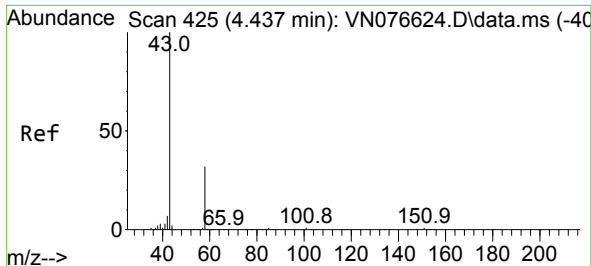
Tgt Ion:168 Resp: 299331
Ion Ratio Lower Upper
168 100
99 53.6 44.8 67.2



#11
Tert butyl alcohol
Concen: 4.393 ug/l
RT: 5.543 min Scan# 613
Delta R.T. 0.006 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Tgt Ion: 59 Resp: 2397
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#16

Acetone

Concen: 19.413 ug/l

RT: 4.454 min Scan# 41

Delta R.T. 0.017 min

Lab File: VN076717.D

Acq: 16 Feb 2023 17:28

Instrument :

MSVOA_N

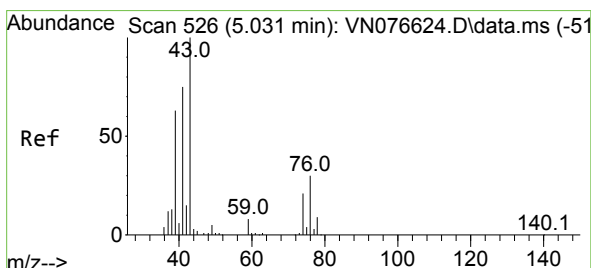
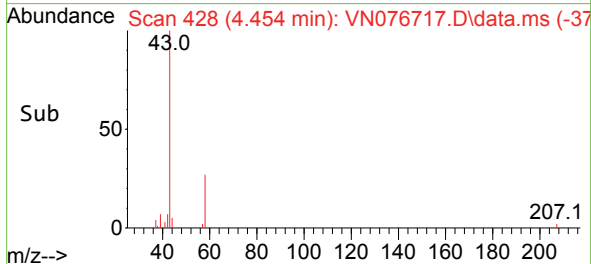
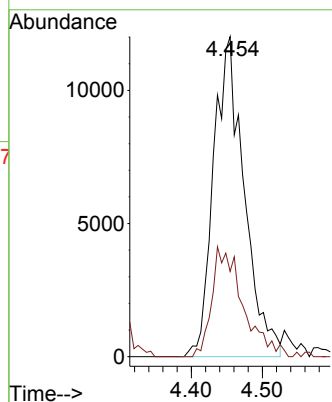
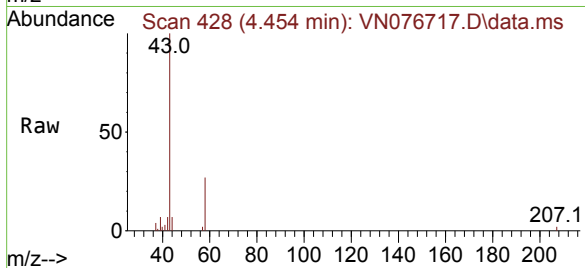
ClientSampleId :

Tgt Ion: 43 Resp: 35843

Ion Ratio Lower Upper

43 100

58 26.6 25.9 38.9



#18

Methyl Acetate

Concen: 0.937 ug/l

RT: 5.037 min Scan# 527

Delta R.T. 0.006 min

Lab File: VN076717.D

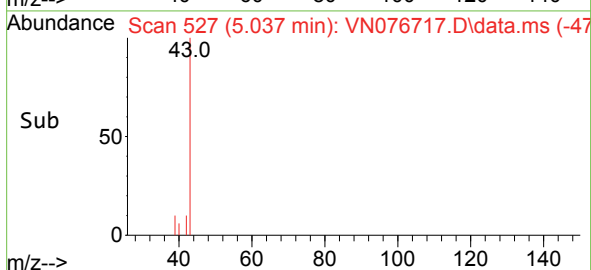
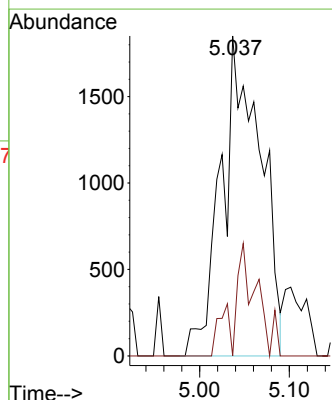
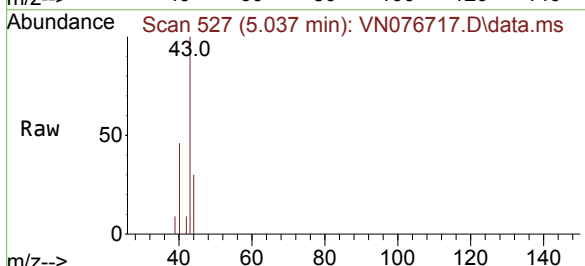
Acq: 16 Feb 2023 17:28

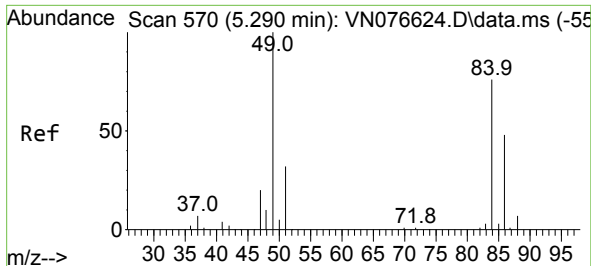
Tgt Ion: 43 Resp: 5644

Ion Ratio Lower Upper

43 100

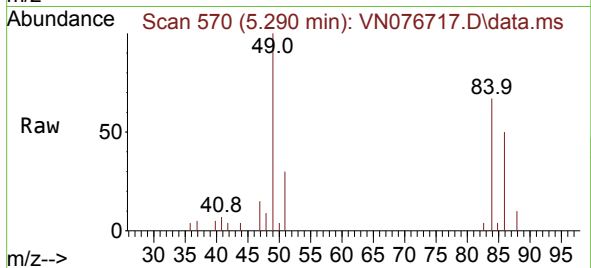
74 20.0 17.7 26.5



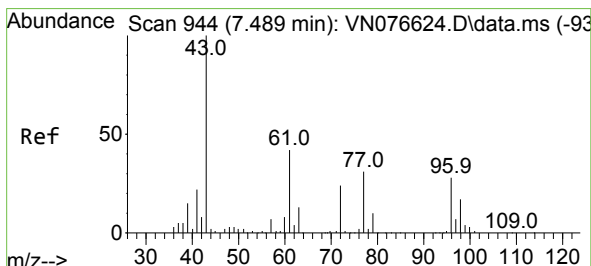
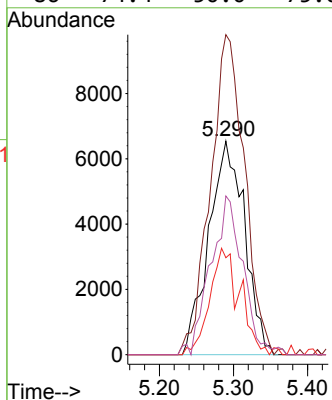


#20
Methylene Chloride
Concen: 5.668 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Instrument :
MSVOA_N
ClientSampleId :

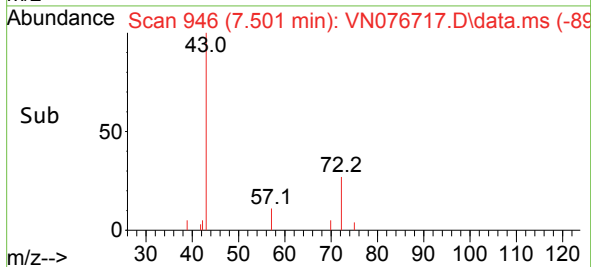
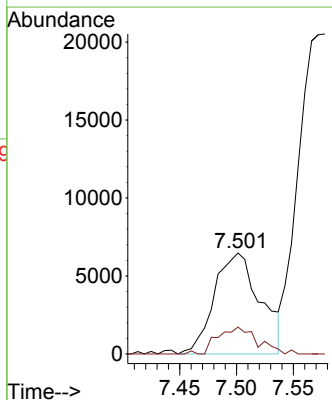
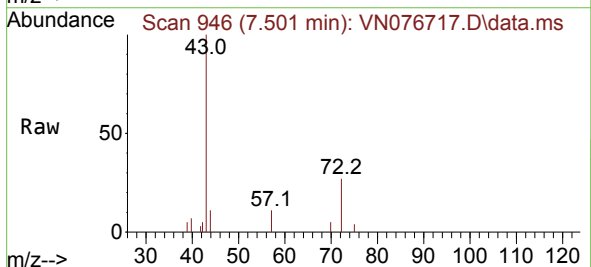


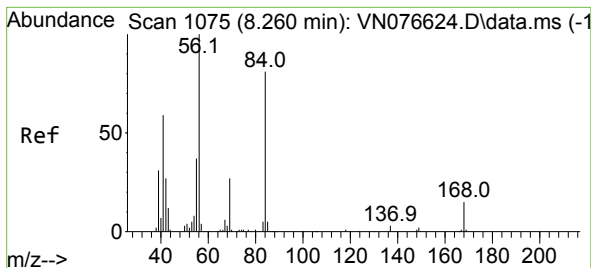
Tgt Ion:	84	Resp:	21932
Ion	Ratio	Lower	Upper
84	100		
49	150.0	104.9	157.3
51	45.4	33.8	50.8
86	74.4	50.0	75.0



#25
2-Butanone
Concen: 6.683 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.012 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Tgt Ion:	43	Resp:	18202
Ion	Ratio	Lower	Upper
43	100		
72	26.6	19.4	29.2





#31

Cyclohexane

Concen: 1.441 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.035 min

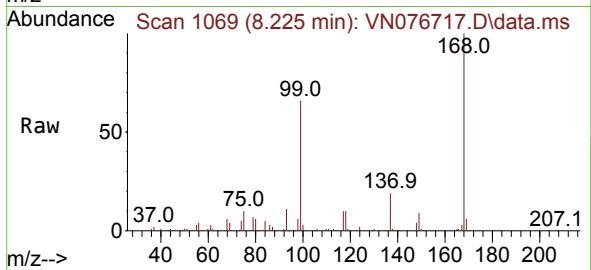
Lab File: VN076717.D

Acq: 16 Feb 2023 17:28

Instrument :

MSVOA_N

ClientSampleId :



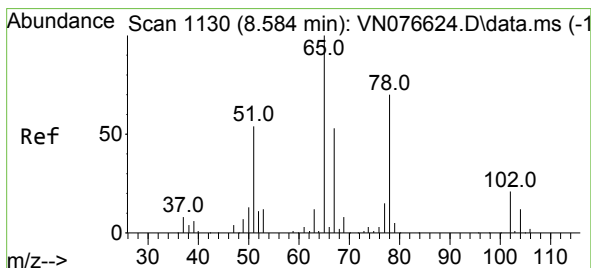
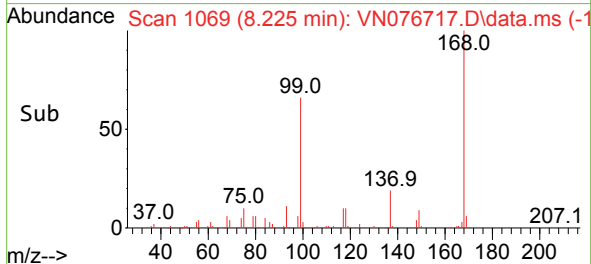
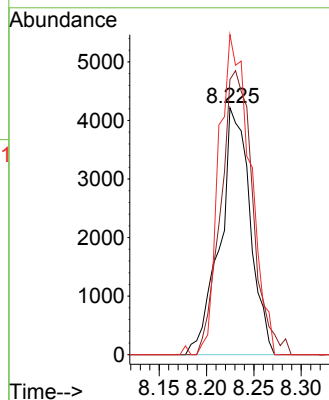
Tgt Ion: 56 Resp: 9340

Ion Ratio Lower Upper

56 100

69 111.5 21.6 32.4#

84 129.7 65.1 97.7#



#33

1,2-Dichloroethane-d4

Concen: 51.924 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076717.D

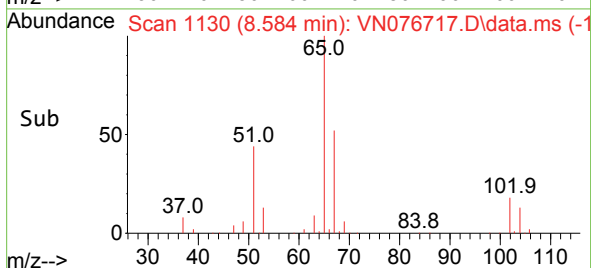
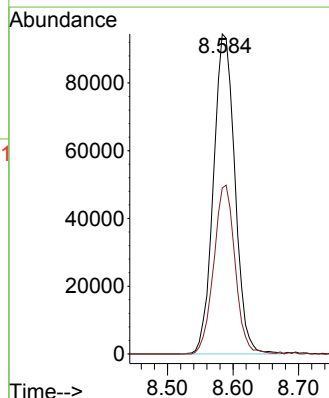
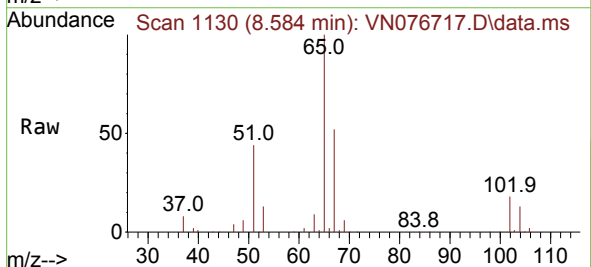
Acq: 16 Feb 2023 17:28

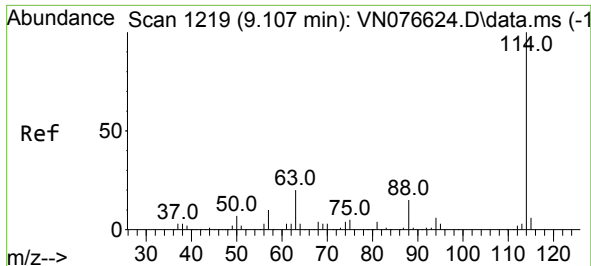
Tgt Ion: 65 Resp: 214620

Ion Ratio Lower Upper

65 100

67 52.5 0.0 105.6

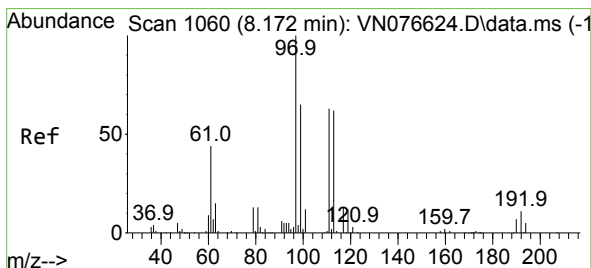
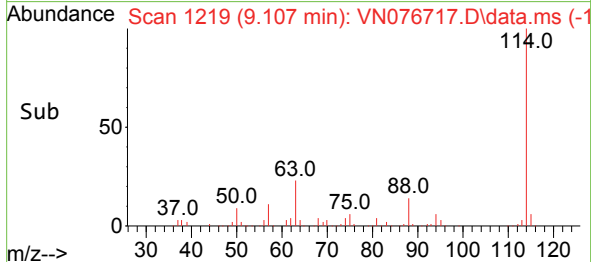
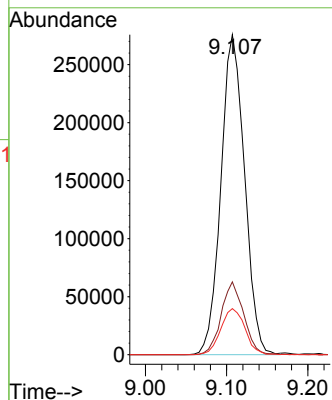
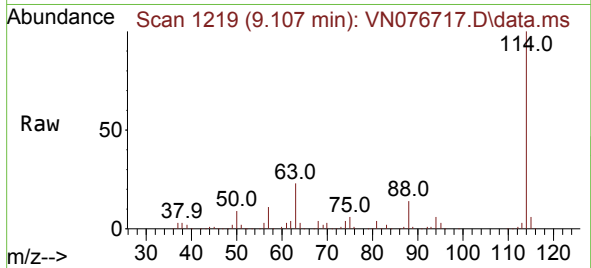




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

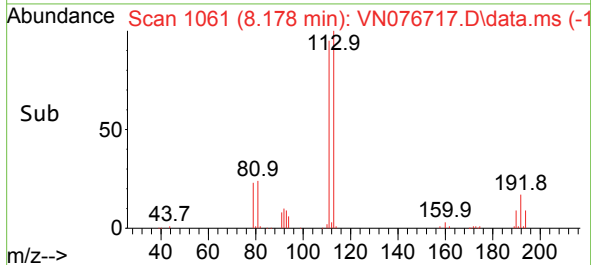
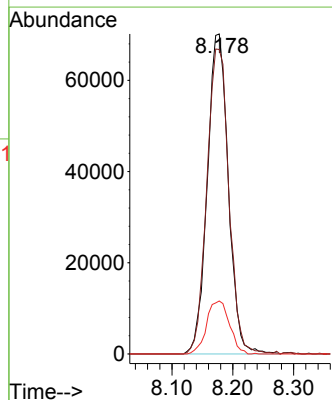
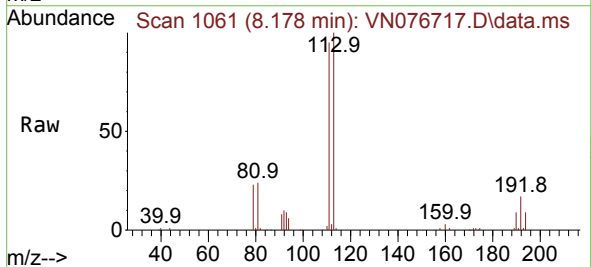
Instrument :
MSVOA_N
ClientSampleId :

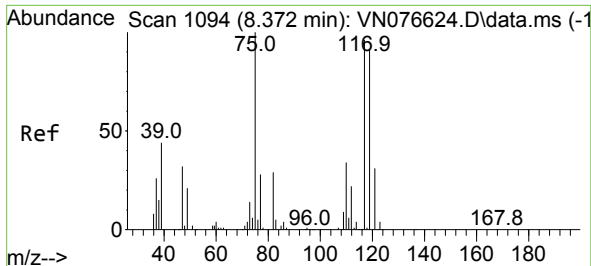
Tgt Ion:114 Resp: 559308
Ion Ratio Lower Upper
114 100
63 22.8 0.0 40.0
88 14.4 0.0 29.6



#35
Dibromofluoromethane
Concen: 46.036 ug/l
RT: 8.178 min Scan# 1061
Delta R.T. 0.006 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

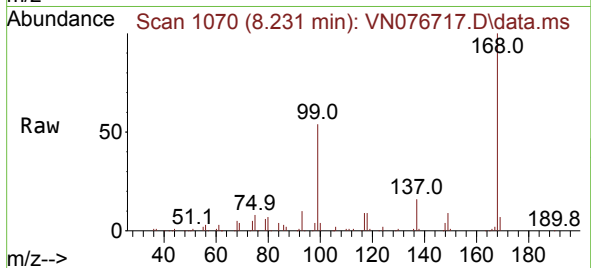
Tgt Ion:113 Resp: 168622
Ion Ratio Lower Upper
113 100
111 99.6 83.1 124.7
192 17.9 15.6 23.4



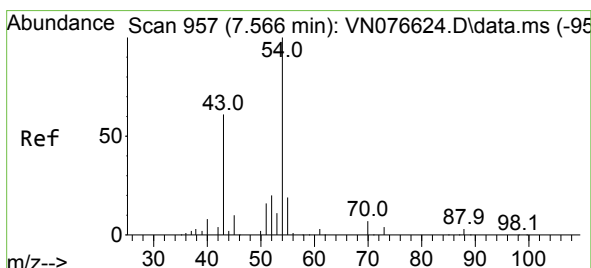
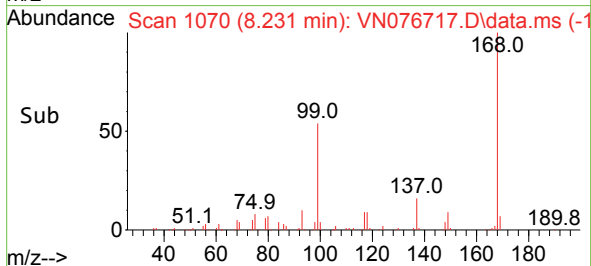
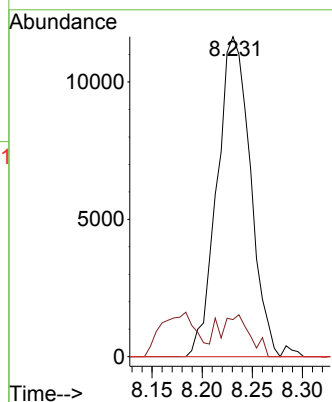


#36
1,1-Dichloropropene
Concen: 5.079 ug/l
RT: 8.231 min Scan# 1094
Delta R.T. -0.141 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Instrument :
MSVOA_N
ClientSampleId :

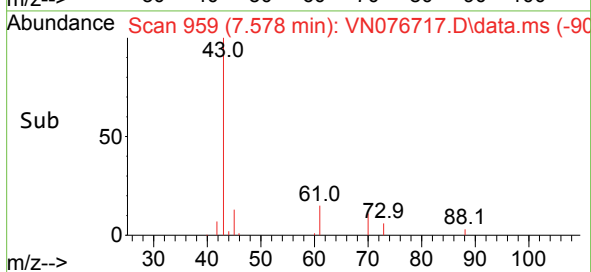
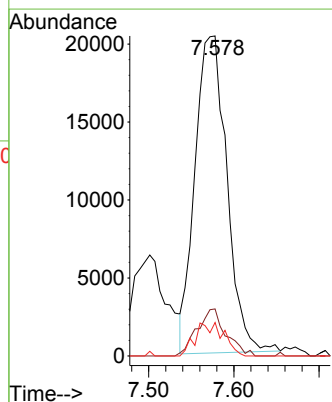
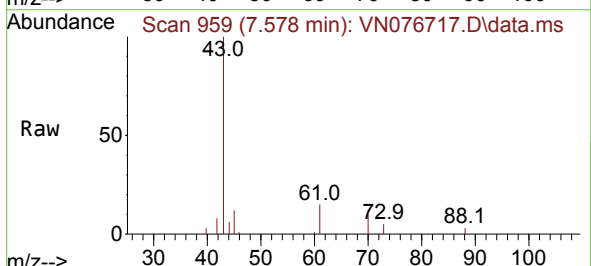


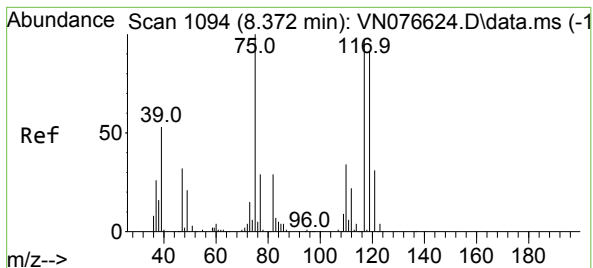
Tgt Ion: 75 Resp: 26878
Ion Ratio Lower Upper
75 100
110 12.1 17.5 52.5#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 9.496 ug/l
RT: 7.578 min Scan# 959
Delta R.T. 0.012 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Tgt Ion: 43 Resp: 52877
Ion Ratio Lower Upper
43 100
61 13.5 9.9 14.9
70 9.3 7.8 11.6





#38

Carbon Tetrachloride

Concen: 5.852 ug/l

RT: 8.231 min Scan# 1107

Delta R.T. -0.141 min

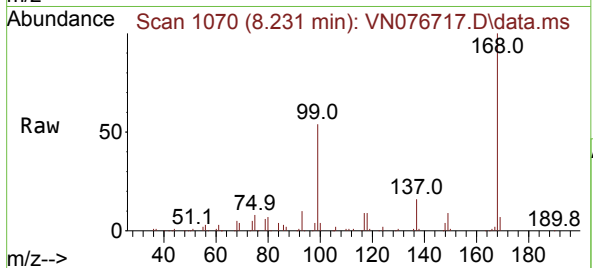
Lab File: VN076717.D

Acq: 16 Feb 2023 17:28

Instrument :

MSVOA_N

ClientSampleId :



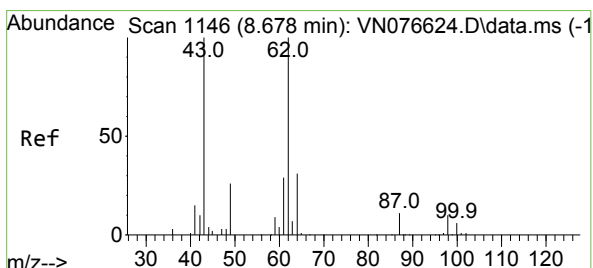
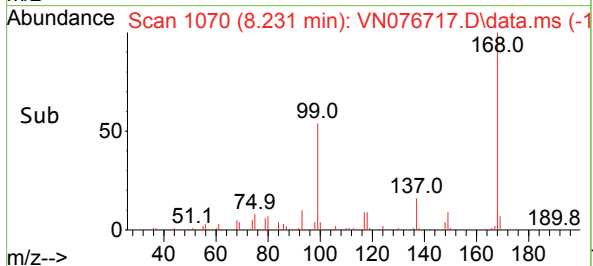
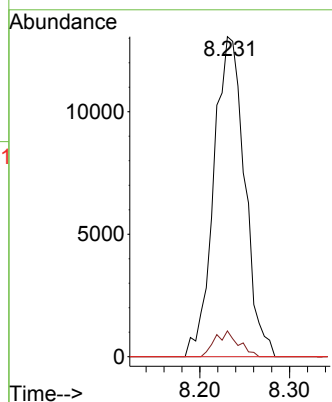
Tgt Ion:117 Resp: 31242

Ion Ratio Lower Upper

117 100

119 8.0 75.4 113.0#

121 0.0 26.0 39.0#



#42

1,2-Dichloroethane

Concen: 0.282 ug/l

RT: 8.678 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN076717.D

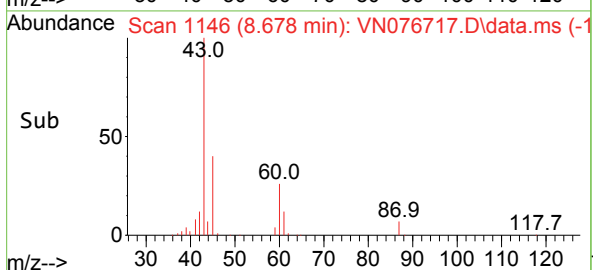
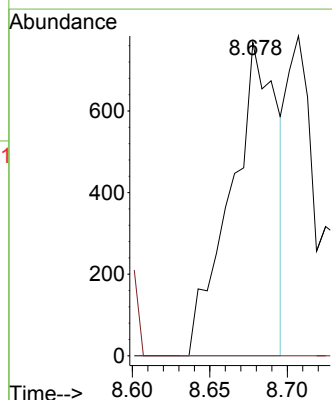
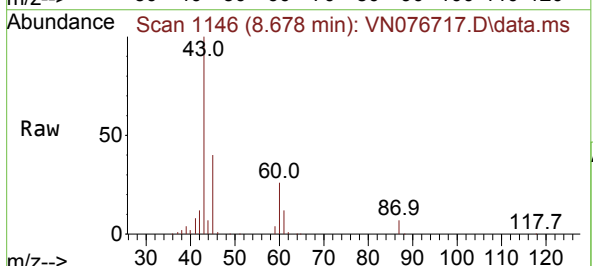
Acq: 16 Feb 2023 17:28

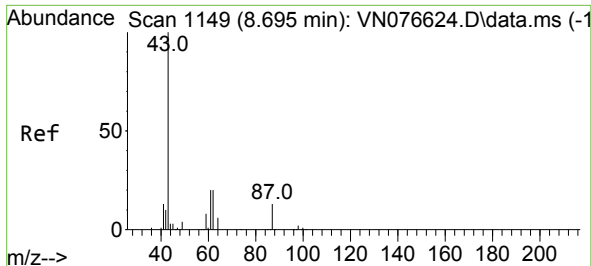
Tgt Ion: 62 Resp: 1598

Ion Ratio Lower Upper

62 100

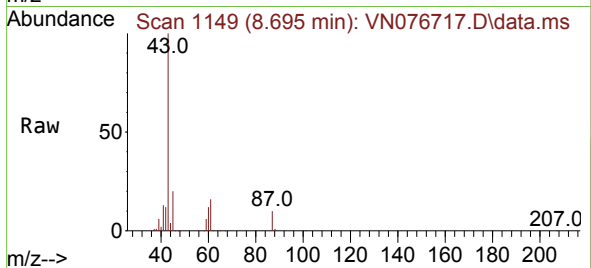
98 0.0 0.0 19.2



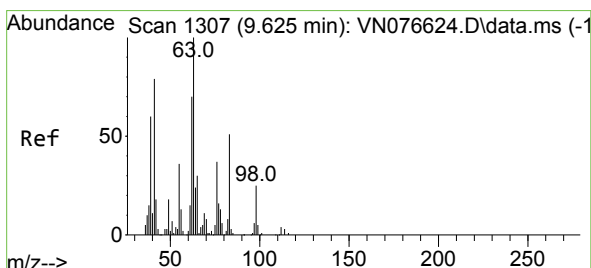
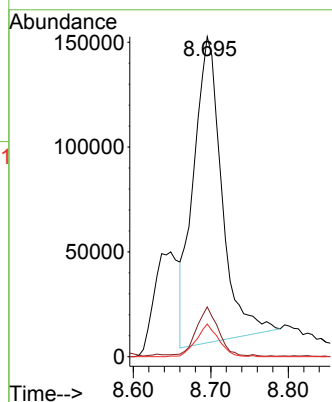
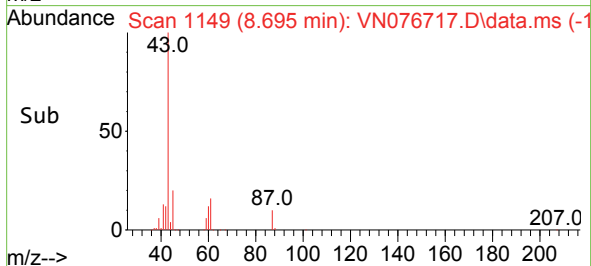


#43
Isopropyl Acetate
Concen: 40.810 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Instrument :
MSVOA_N
ClientSampleId :

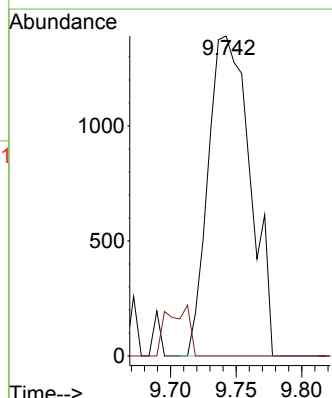
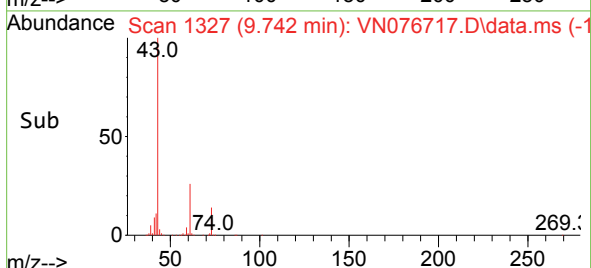
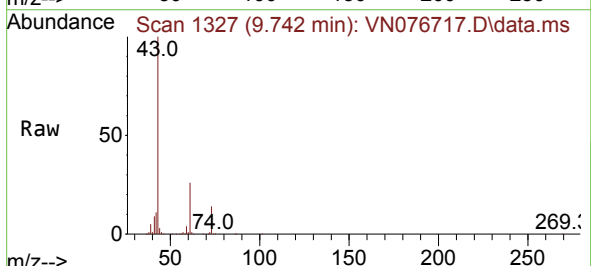


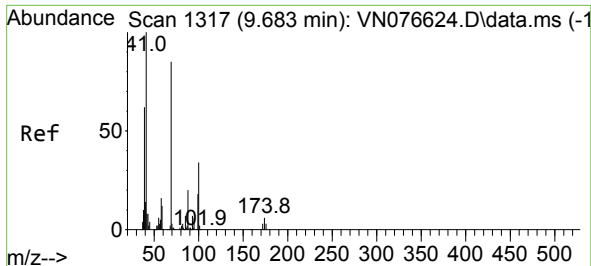
Tgt Ion: 43 Resp: 369762
Ion Ratio Lower Upper
43 100
61 12.3 20.0 30.0#
87 8.4 9.9 14.9#



#45
1,2-Dichloropropane
Concen: 0.722 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.117 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Tgt Ion: 63 Resp: 3104
Ion Ratio Lower Upper
63 100
65 0.0 24.2 36.2#

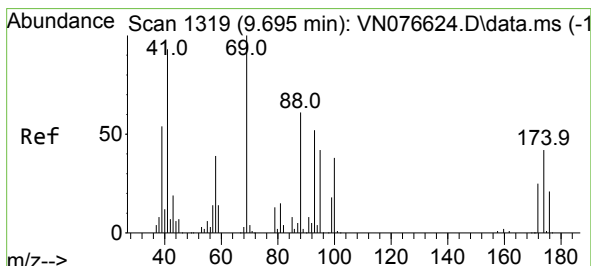
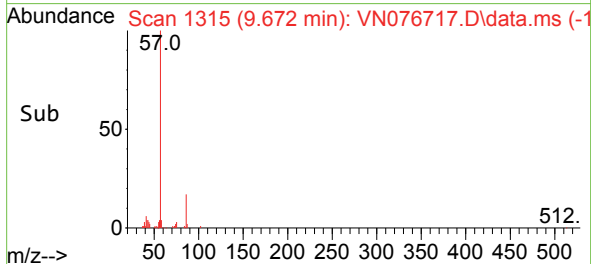
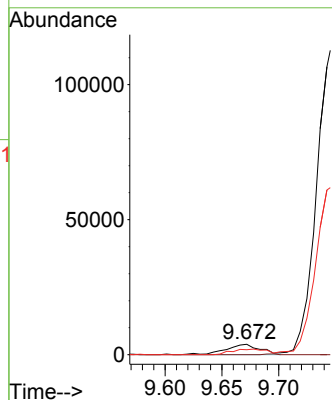
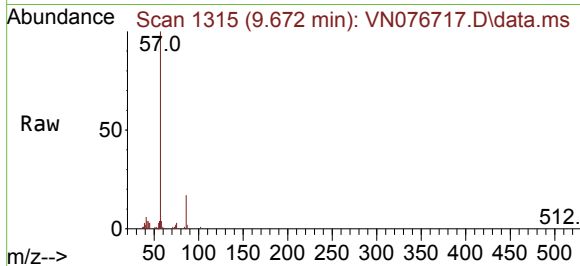




#48
Methyl methacrylate
Concen: 1.907 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.011 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

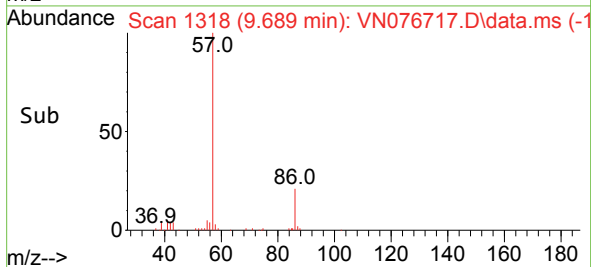
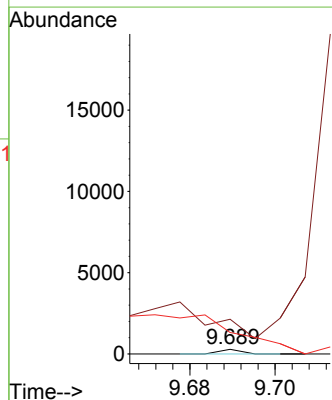
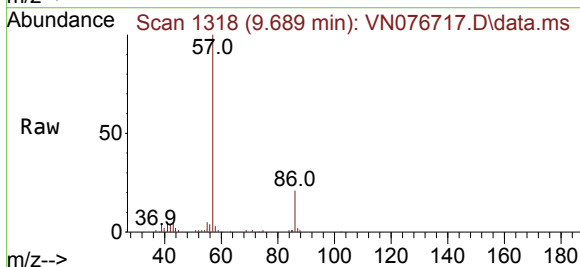
Instrument :
MSVOA_N
ClientSampleId :

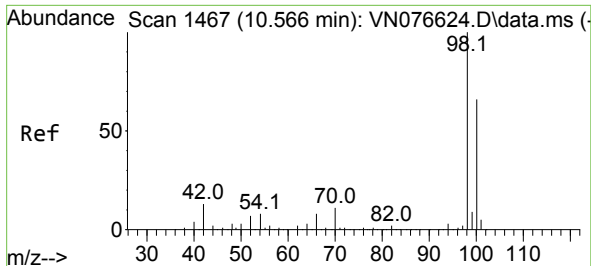
Tgt Ion: 41 Resp: 8200
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 53.9 49.3 73.9



#49
1,4-Dioxane
Concen: 1.358 ug/l
RT: 9.689 min Scan# 1318
Delta R.T. -0.006 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Tgt Ion: 88 Resp: 101
Ion Ratio Lower Upper
88 100
43 0.0 22.6 33.8#
58 5944.6 57.6 86.4#

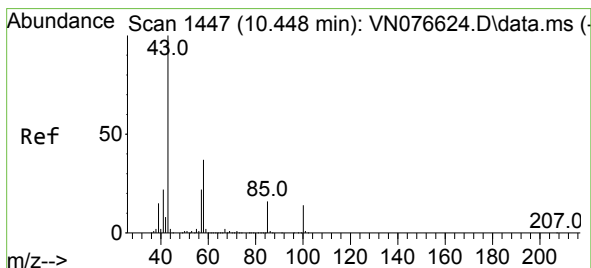
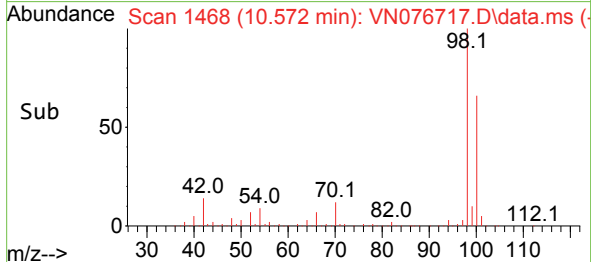
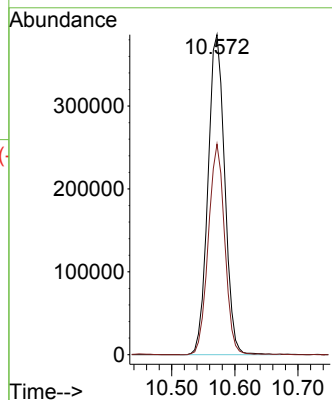
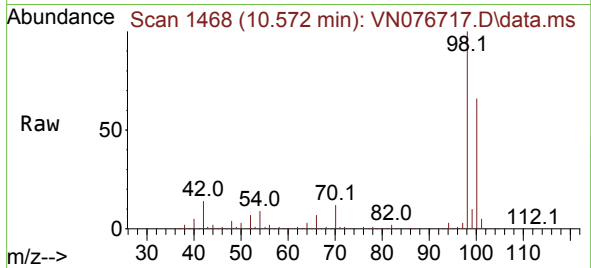




#50
Toluene-d8
Concen: 52.039 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

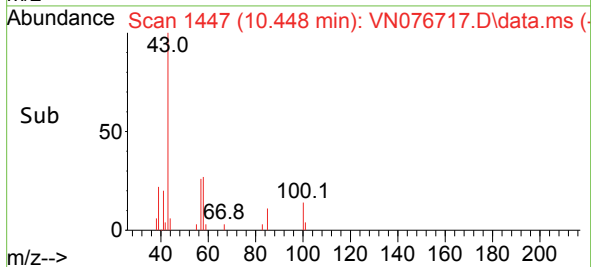
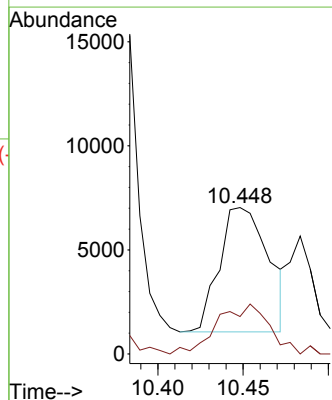
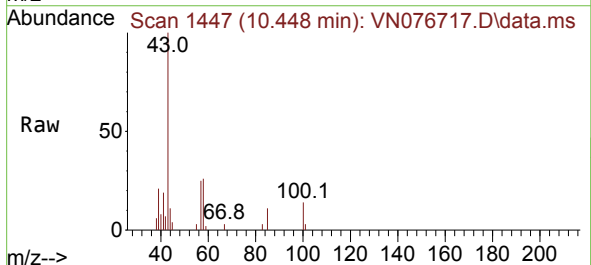
Instrument :
MSVOA_N
ClientSampleId :

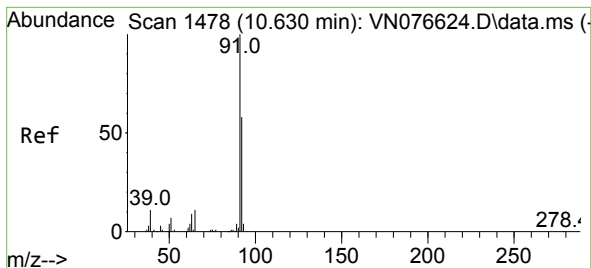
Tgt Ion: 98 Resp: 711838
Ion Ratio Lower Upper
98 100
100 64.3 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 2.079 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Tgt Ion: 43 Resp: 11983
Ion Ratio Lower Upper
43 100
58 43.3 29.5 44.3





#52

Toluene

Concen: 0.385 ug/l

RT: 10.631 min Scan# 1478

Delta R.T. 0.001 min

Lab File: VN076717.D

Acq: 16 Feb 2023 17:28

Instrument :

MSVOA_N

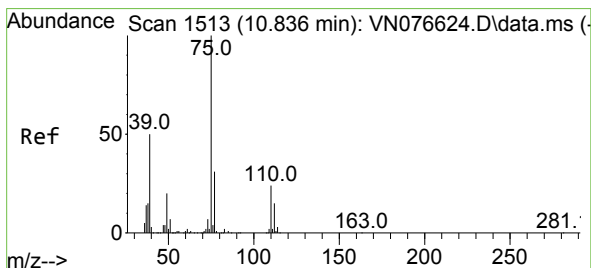
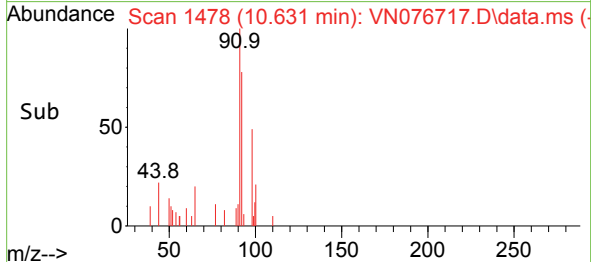
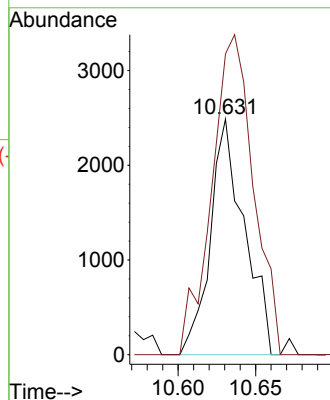
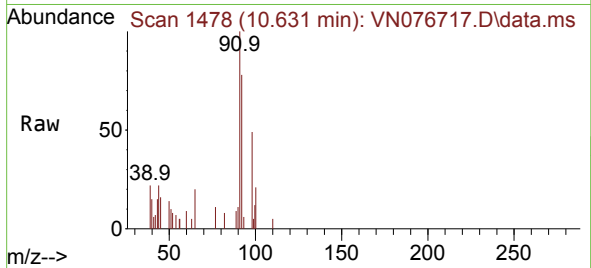
ClientSampleId :

Tgt Ion: 92 Resp: 3778

Ion Ratio Lower Upper

92 100

91 168.2 138.0 207.0



#53

t-1,3-Dichloropropene

Concen: 0.284 ug/l

RT: 10.725 min Scan# 1494

Delta R.T. -0.111 min

Lab File: VN076717.D

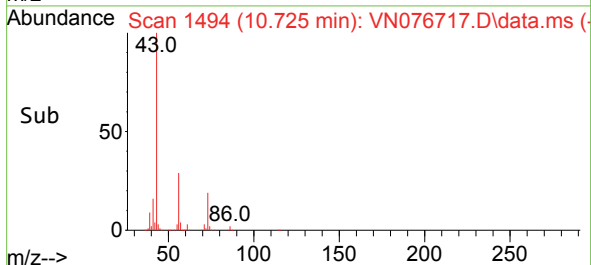
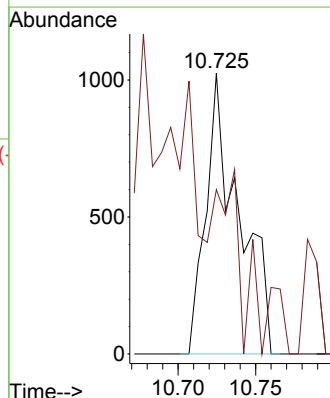
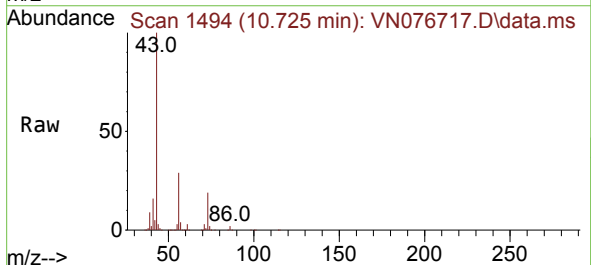
Acq: 16 Feb 2023 17:28

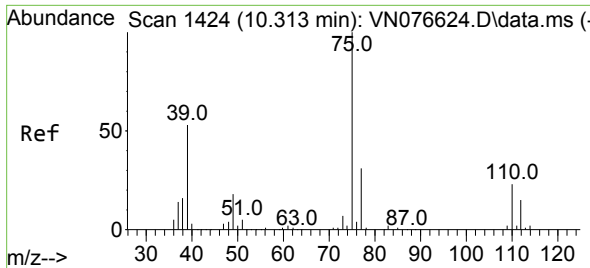
Tgt Ion: 75 Resp: 1509

Ion Ratio Lower Upper

75 100

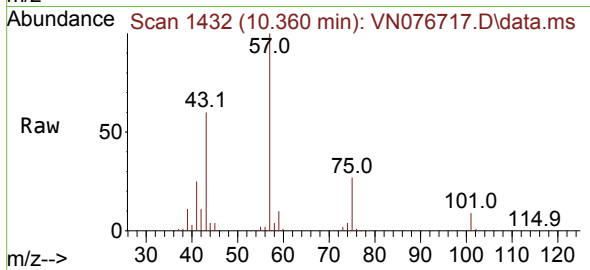
77 35.4 24.6 37.0



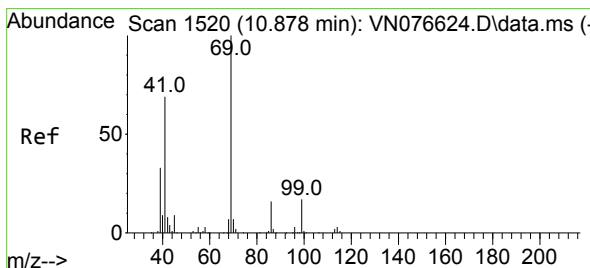
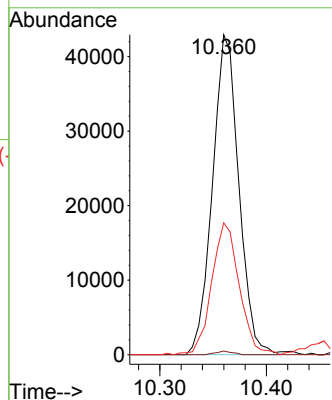
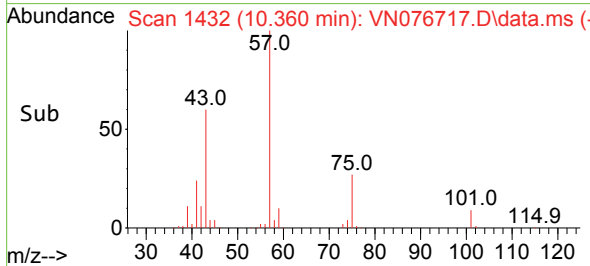


#54
 cis-1,3-Dichloropropene
 Concen: 11.983 ug/l
 RT: 10.360 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN076717.D
 Acq: 16 Feb 2023 17:28

Instrument :
 MSVOA_N
 ClientSampleId :

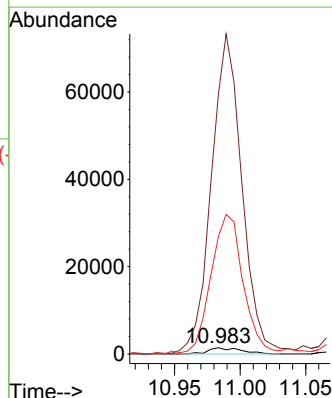
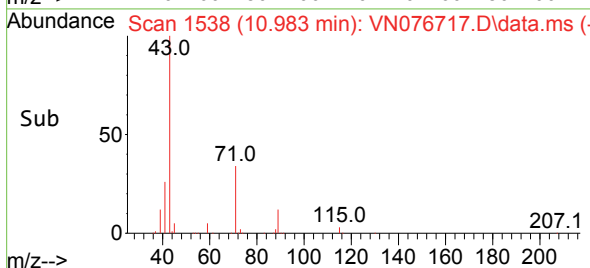
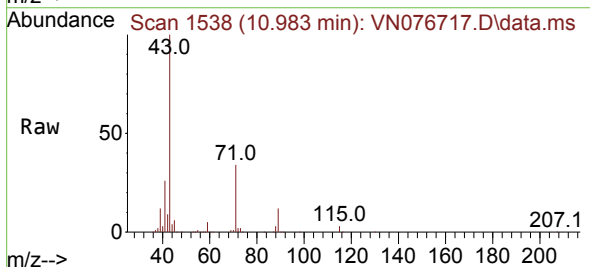


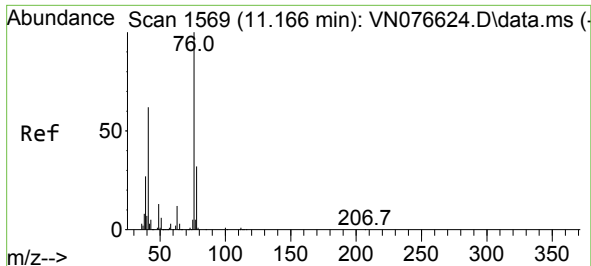
Tgt Ion: 75 Resp: 73568
 Ion Ratio Lower Upper
 75 100
 77 1.2 25.1 37.7#
 39 41.2 42.3 63.5#



#56
 Ethyl methacrylate
 Concen: 0.436 ug/l
 RT: 10.983 min Scan# 1538
 Delta R.T. 0.105 min
 Lab File: VN076717.D
 Acq: 16 Feb 2023 17:28

Tgt Ion: 69 Resp: 2449
 Ion Ratio Lower Upper
 69 100
 41 4875.7 55.1 82.7#
 39 2235.6 30.7 46.1#





#57

1,3-Dichloropropane

Concen: 1.473 ug/l

RT: 11.201 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN076717.D

Acq: 16 Feb 2023 17:28

Instrument :

MSVOA_N

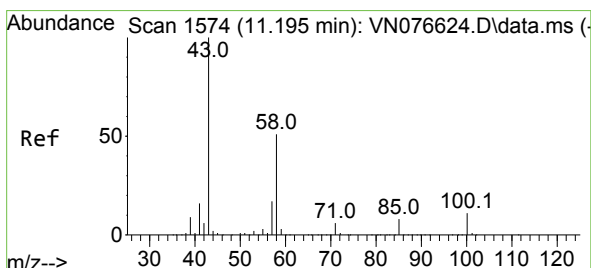
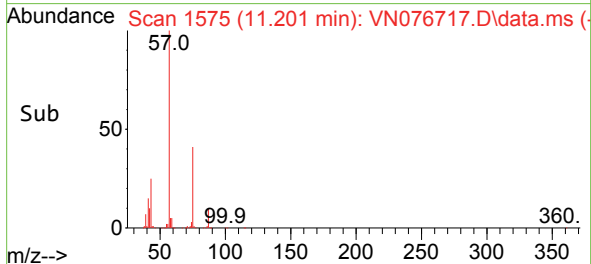
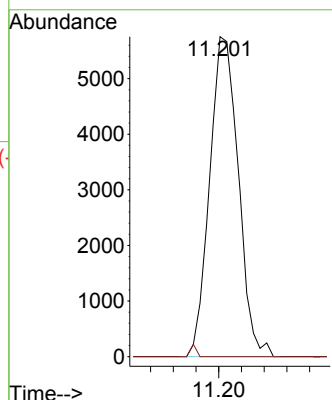
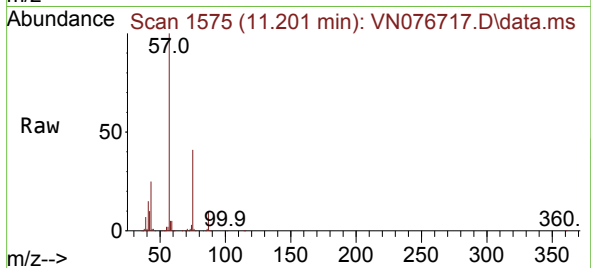
ClientSampleId :

Tgt Ion: 76 Resp: 10096

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 49.507 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN076717.D

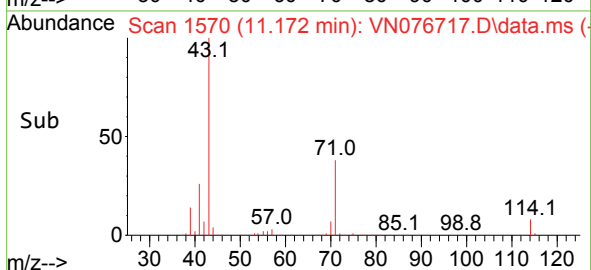
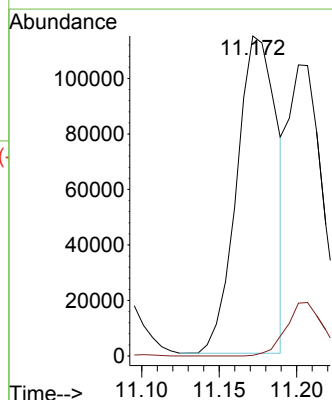
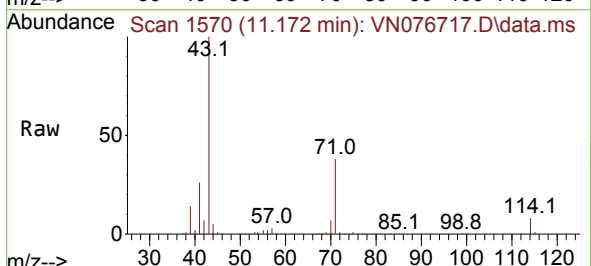
Acq: 16 Feb 2023 17:28

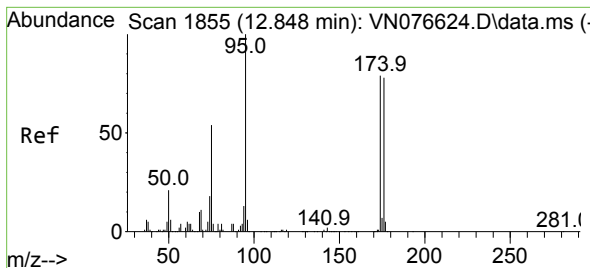
Tgt Ion: 43 Resp: 205777

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.0#

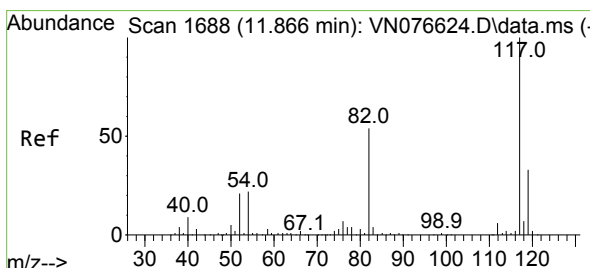
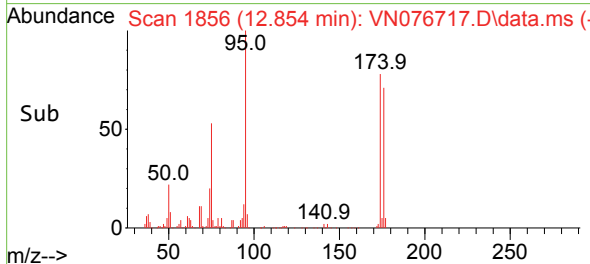
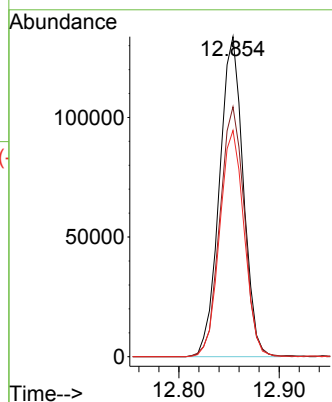
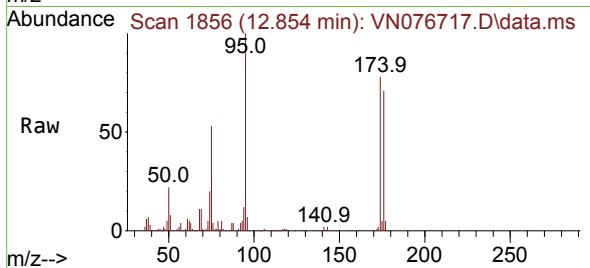




#62
4-Bromofluorobenzene
Concen: 48.641 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

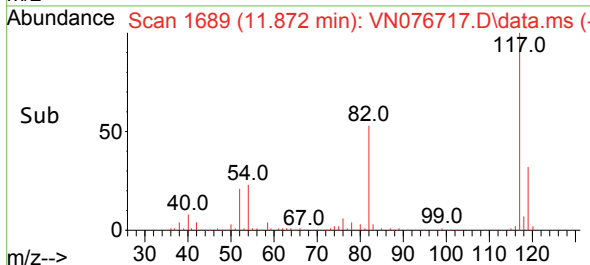
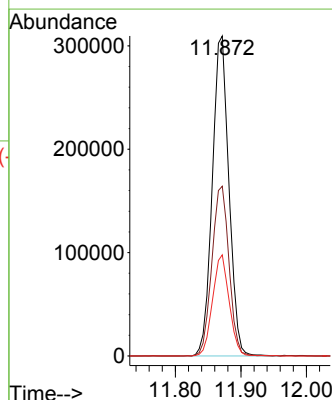
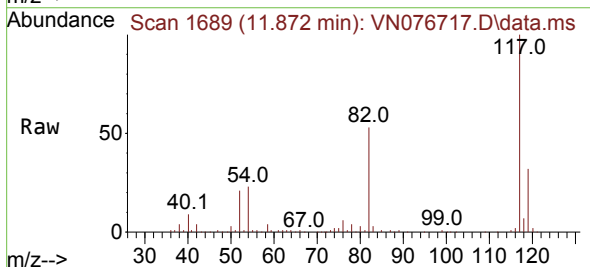
Instrument :
MSVOA_N
ClientSampleId :

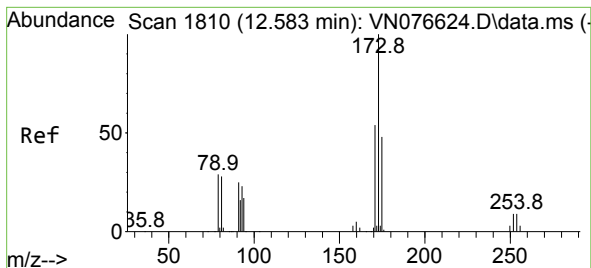
Tgt Ion: 95 Resp: 220367
Ion Ratio Lower Upper
95 100
174 80.0 0.0 169.2
176 72.7 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

Tgt Ion: 117 Resp: 545455
Ion Ratio Lower Upper
117 100
82 53.0 43.4 65.2
119 31.6 26.1 39.1





#71

Bromoform

Concen: 0.987 ug/l

RT: 12.842 min Scan# 1810

Delta R.T. 0.259 min

Lab File: VN076717.D

Acq: 16 Feb 2023 17:28

Instrument :

MSVOA_N

ClientSampleId :

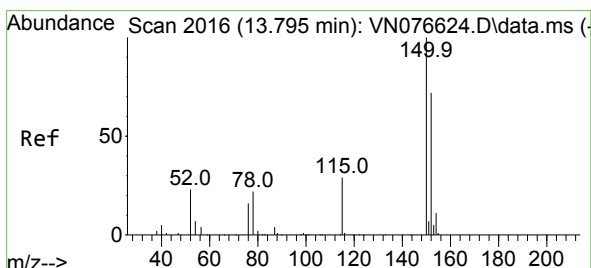
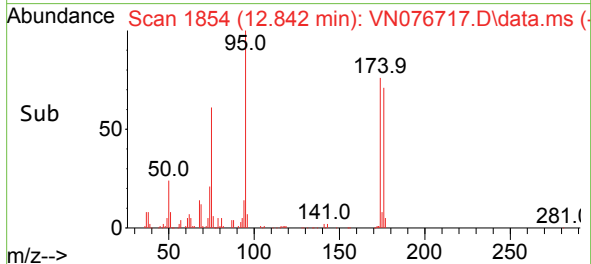
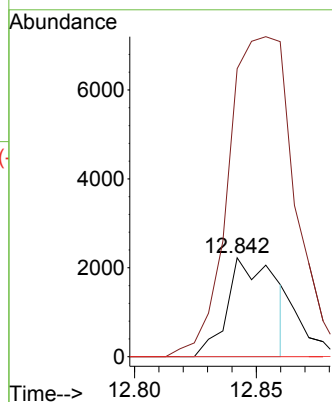
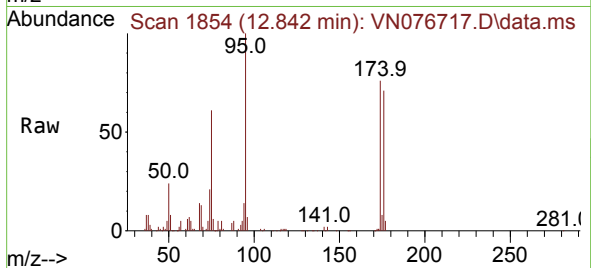
Tgt Ion:173 Resp: 3040

Ion Ratio Lower Upper

173 100

175 370.7 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: VN076717.D

Acq: 16 Feb 2023 17:28

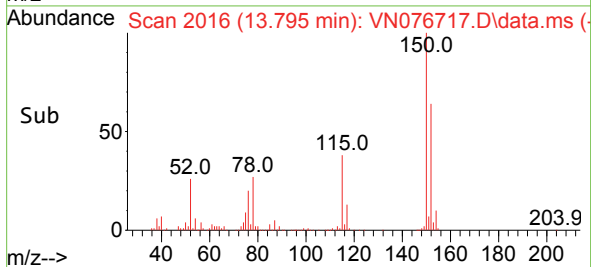
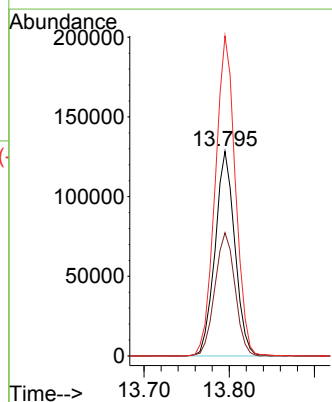
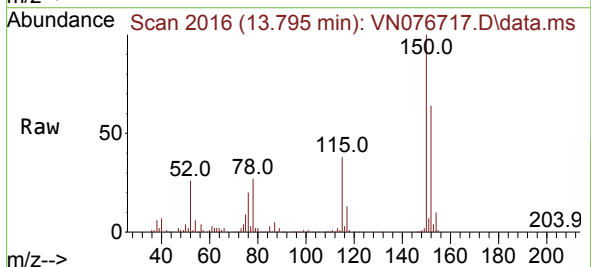
Tgt Ion:152 Resp: 206876

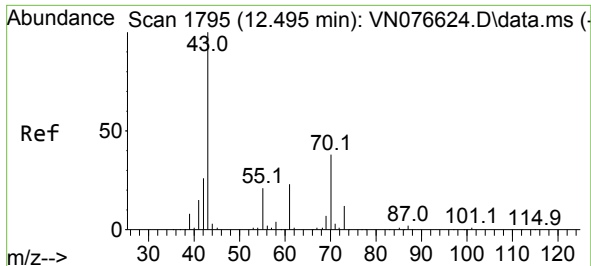
Ion Ratio Lower Upper

152 100

115 61.4 29.3 87.9

150 159.7 0.0 349.8

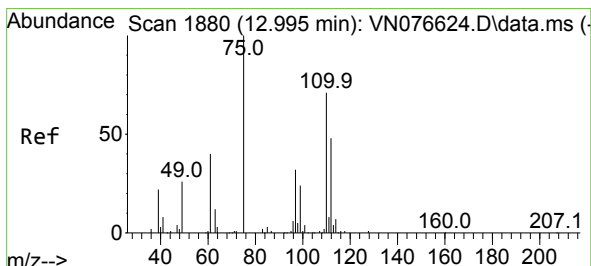
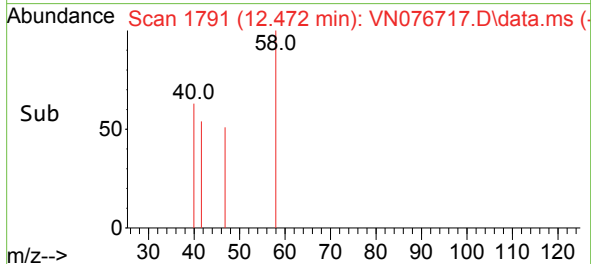
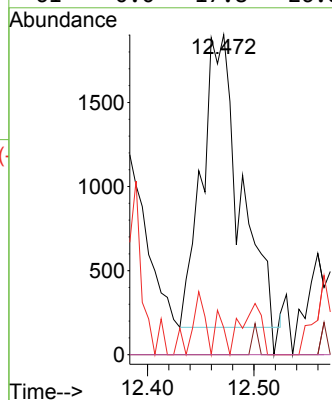
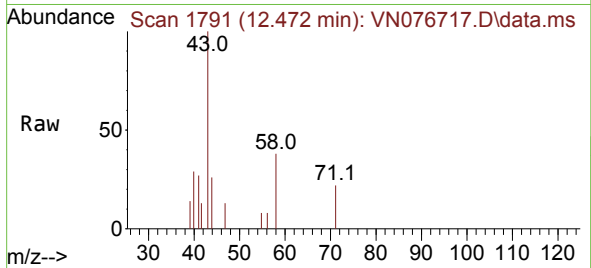




#74
N-amy1 acetate
Concen: 0.627 ug/l
RT: 12.472 min Scan# 1791
Delta R.T. -0.023 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

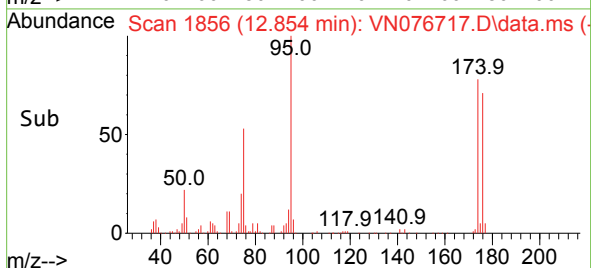
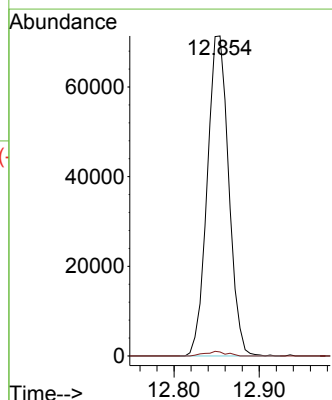
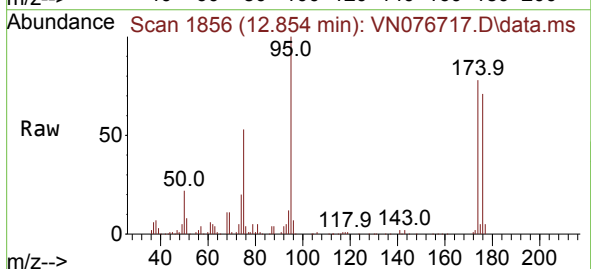
Instrument :
MSVOA_N
ClientSampleId :

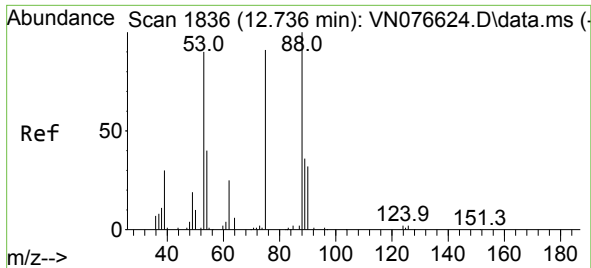
Tgt Ion: 43	Resp: 4284
Ion Ratio	Lower Upper
43 100	
70 0.0	30.5 45.7#
55 3.5	17.8 26.8#
61 0.0	17.8 26.8#



#76
1,2,3-Trichloropropane
Concen: 29.875 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076717.D
Acq: 16 Feb 2023 17:28

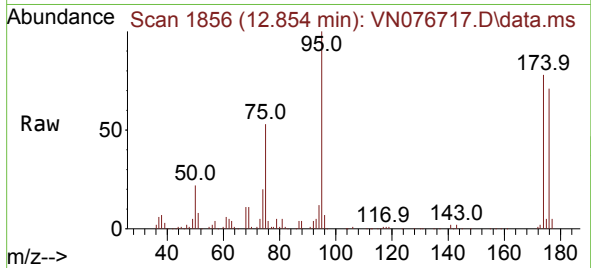
Tgt Ion: 75	Resp: 124949
Ion Ratio	Lower Upper
75 100	
77 1.4	93.1 279.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.012 ug/l
 RT: 12.854 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN076717.D
 Acq: 16 Feb 2023 17:28

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 124949
 Ion Ratio Lower Upper
 75 100
 53 0.1 92.1 138.1#
 89 0.0 37.5 56.3#

