

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021323\
 Data File : VN076649.D
 Acq On : 13 Feb 2023 23:56
 Operator : JC\MD
 Sample : 01489-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BARN-EAST-END-DRAIN

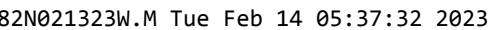
Quant Time: Feb 14 05:36:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

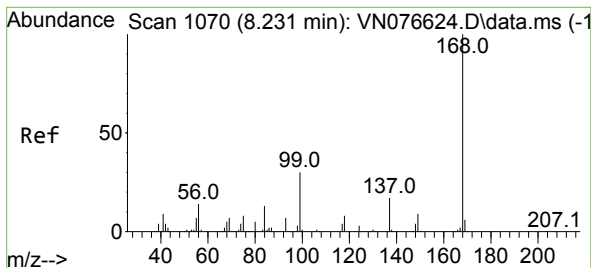
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	339308	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	623476	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	588579	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	231879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	229474	48.977	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.960%		
35) Dibromofluoromethane	8.172	113	188746	46.227	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.460%		
50) Toluene-d8	10.572	98	772159	50.639	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.280%		
62) 4-Bromofluorobenzene	12.854	95	240194	47.560	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.120%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.984	94	1060	0.378	ug/l #	48
11) Tert butyl alcohol	5.525	59	793	1.282	ug/l #	71
13) Acrolein	4.184	56	751	0.809	ug/l	86
16) Acetone	4.442	43	131203	62.690	ug/l	94
17) Carbon Disulfide	4.713	76	1855	0.201	ug/l	96
18) Methyl Acetate	5.042	43	2784	0.408	ug/l #	85
20) Methylene Chloride	5.289	84	32800	7.478	ug/l	89
25) 2-Butanone	7.501	43	31633	10.247	ug/l	96
31) Cyclohexane	8.230	56	8637	1.175	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	31079	5.268	ug/l #	42
37) Ethyl Acetate	7.572	43	49624	7.995	ug/l	97
38) Carbon Tetrachloride	8.230	117	37380	6.281	ug/l #	16
42) 1,2-Dichloroethane	8.689	62	1470	0.233	ug/l #	74
43) Isopropyl Acetate	8.689	43	411022	40.695	ug/l #	77
45) 1,2-Dichloropropane	9.748	63	1623	0.338	ug/l #	44
48) Methyl methacrylate	9.654	41	7501	1.565	ug/l #	44
49) 1,4-Dioxane	9.683	88	65	0.784	ug/l #	23
51) 4-Methyl-2-Pentanone	10.454	43	25806	4.016	ug/l #	86
54) cis-1,3-Dichloropropene	10.360	75	80277	11.730	ug/l #	66
57) 1,3-Dichloropropane	11.207	76	9698	1.269	ug/l #	42
59) 2-Hexanone	11.171	43	248536	53.640	ug/l #	27
74) N-amyl acetate	12.466	43	2301	0.300	ug/l #	46
76) 1,2,3-Trichloropropane	12.854	75	132609	28.287	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	132609	82.389	ug/l #	4
88) 1,4-Dichlorobenzene	13.807	146	1708	0.214	ug/l #	1

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

Quant Time: Feb 14 05:36:51 2023
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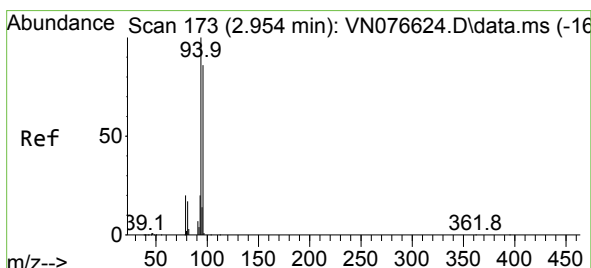
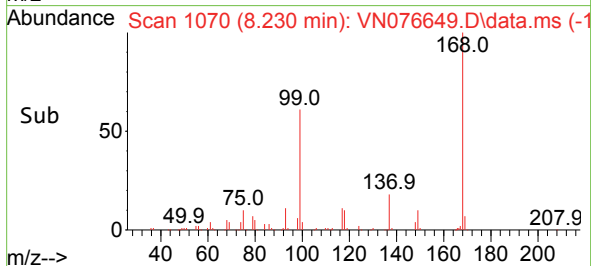
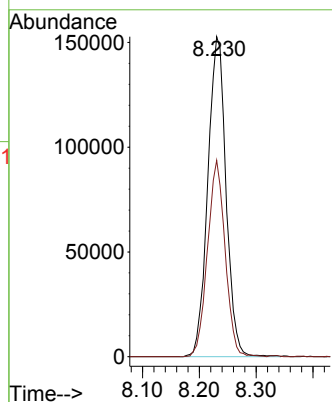
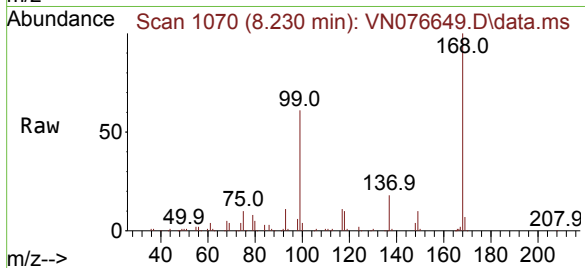




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

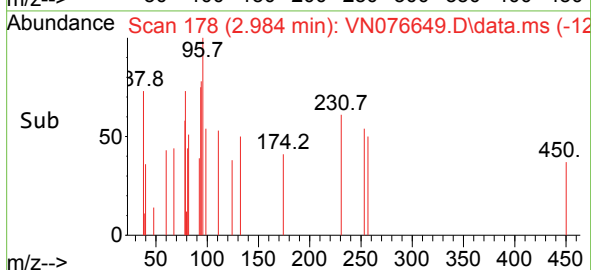
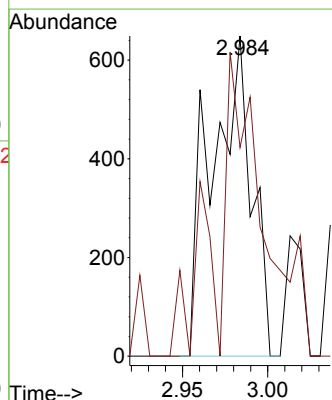
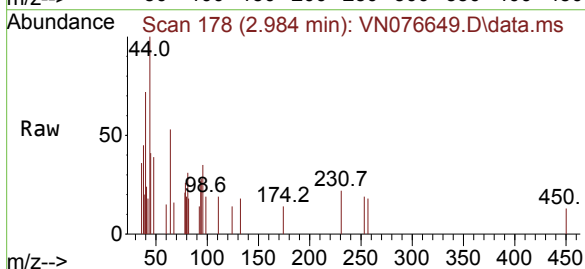
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

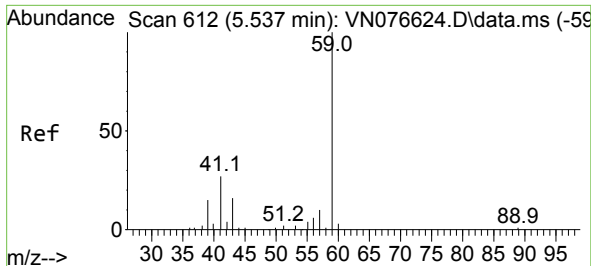
Tgt Ion:168 Resp: 339308
Ion Ratio Lower Upper
168 100
99 61.4 44.8 67.2



#5
Bromomethane
Concen: 0.378 ug/l
RT: 2.984 min Scan# 178
Delta R.T. 0.030 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 94 Resp: 1060
Ion Ratio Lower Upper
94 100
96 38.4 69.0 103.4#

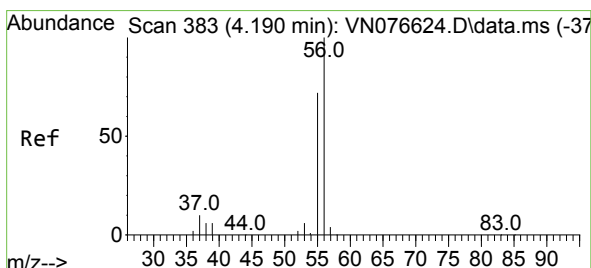
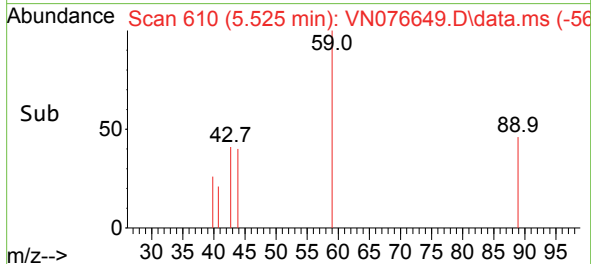
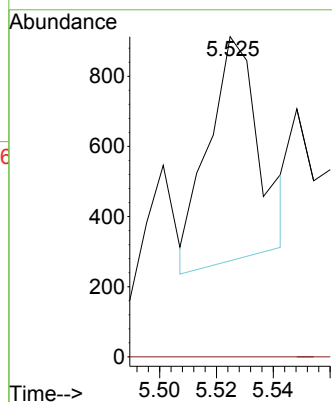
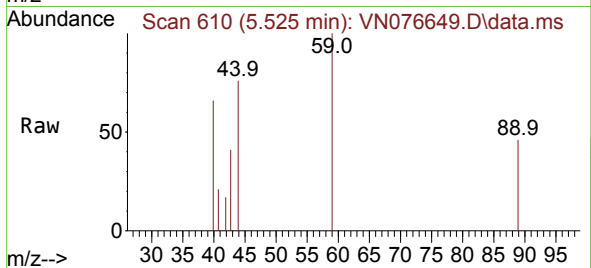




#11
Tert butyl alcohol
Concen: 1.282 ug/l
RT: 5.525 min Scan# 611
Delta R.T. -0.012 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

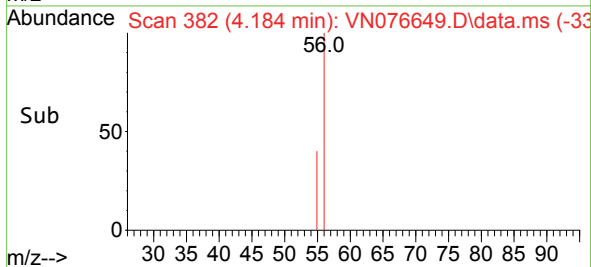
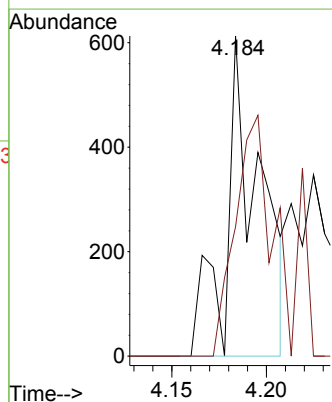
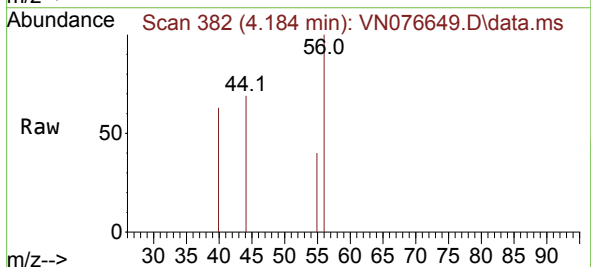
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

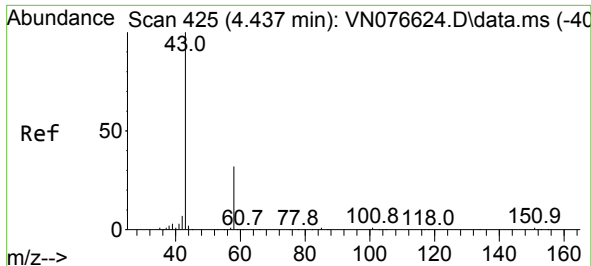
Tgt Ion: 59 Resp: 793
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.809 ug/l
RT: 4.184 min Scan# 382
Delta R.T. -0.006 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 56 Resp: 751
Ion Ratio Lower Upper
56 100
55 81.6 56.3 84.5

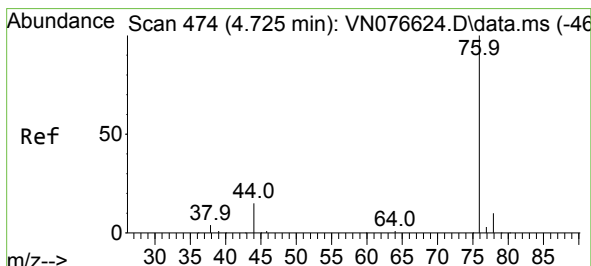
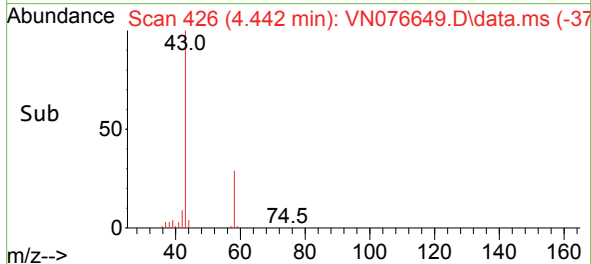
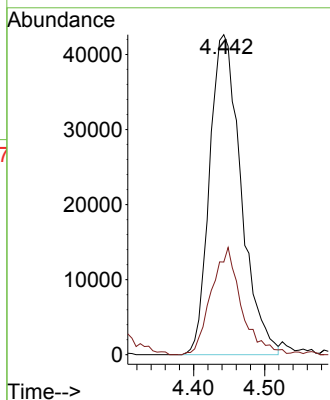
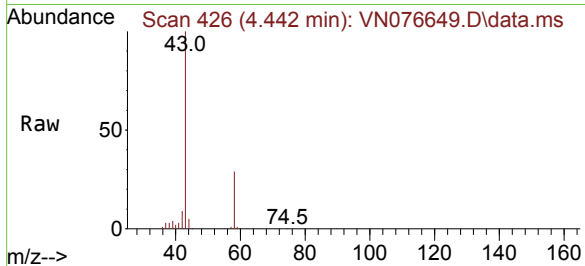




#16
Acetone
Concen: 62.690 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

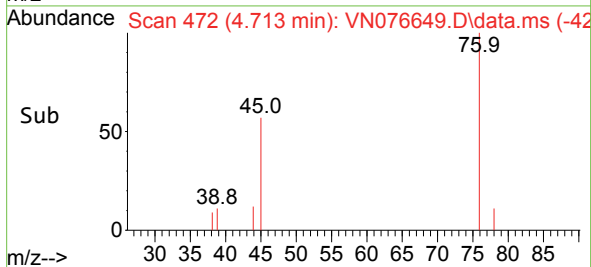
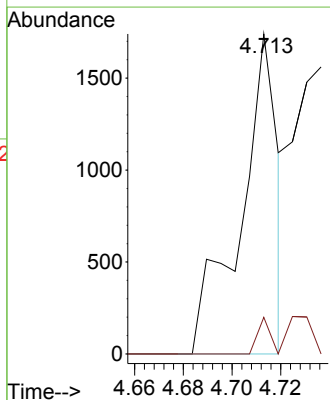
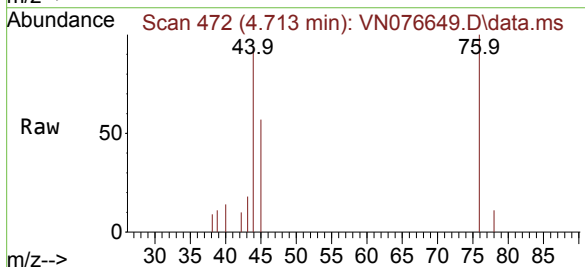
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

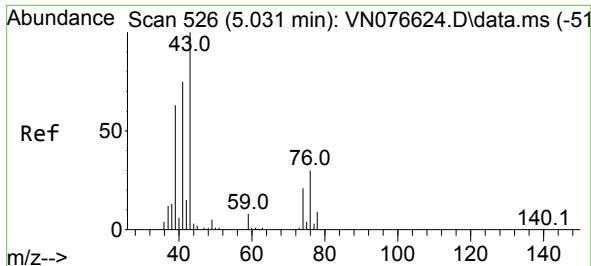
Tgt Ion: 43 Resp: 131203
Ion Ratio Lower Upper
43 100
58 29.0 25.9 38.9



#17
Carbon Disulfide
Concen: 0.201 ug/l
RT: 4.713 min Scan# 472
Delta R.T. -0.012 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 76 Resp: 1855
Ion Ratio Lower Upper
76 100
78 11.4 7.8 11.8

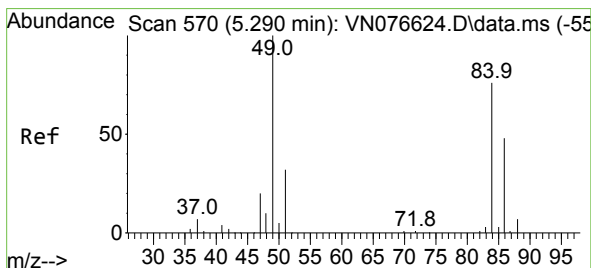
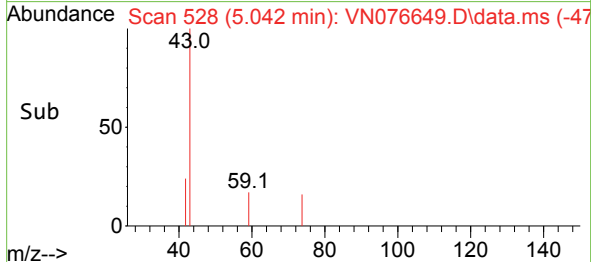
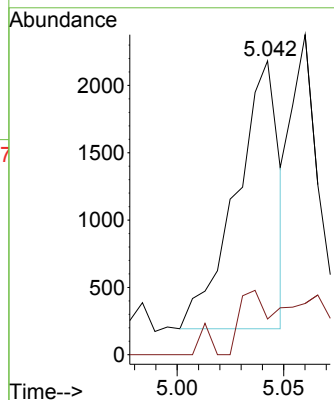
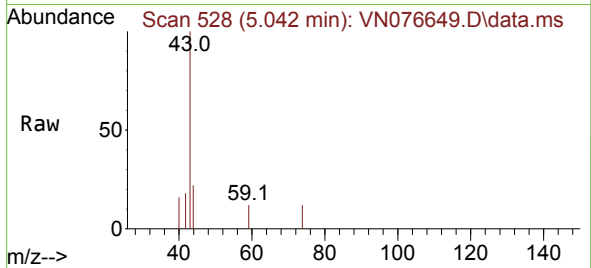




#18
Methyl Acetate
Concen: 0.408 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

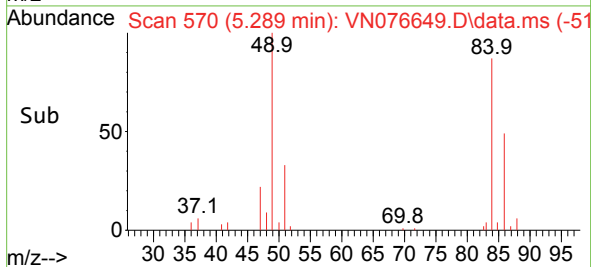
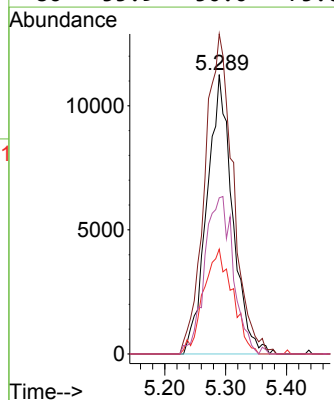
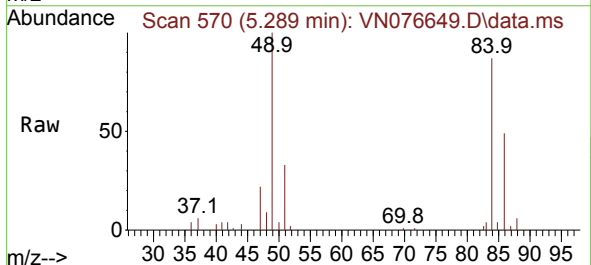
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

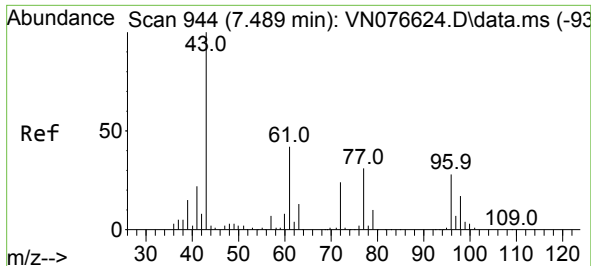
Tgt Ion: 43 Resp: 2784
Ion Ratio Lower Upper
43 100
74 15.0 17.7 26.5#



#20
Methylene Chloride
Concen: 7.478 ug/l
RT: 5.289 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 84 Resp: 32800
Ion Ratio Lower Upper
84 100
49 114.5 104.9 157.3
51 37.5 33.8 50.8
86 55.9 50.0 75.0

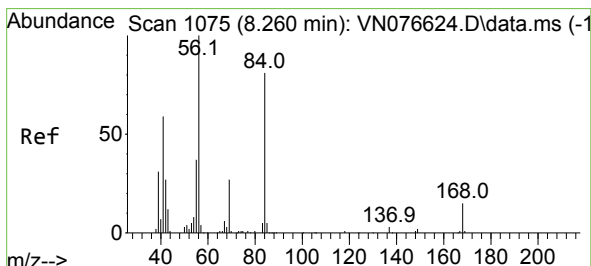
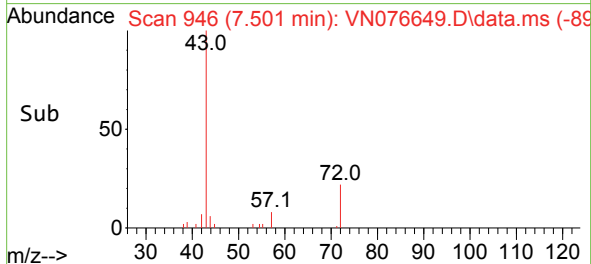
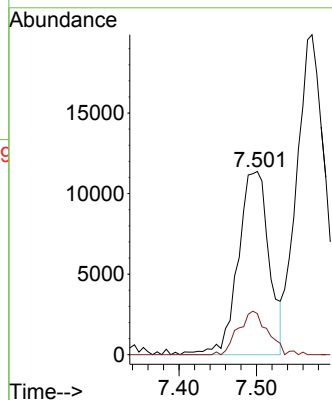
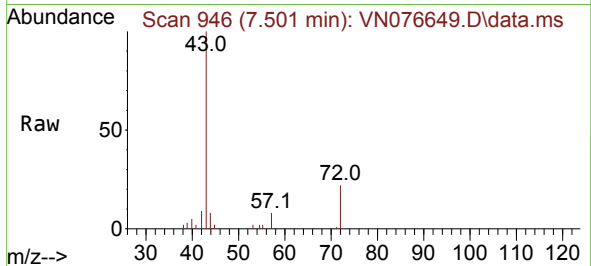




#25
2-Butanone
Concen: 10.247 ug/l
RT: 7.501 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

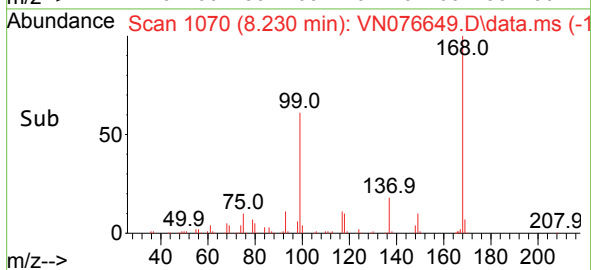
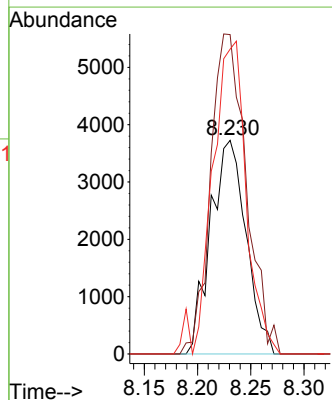
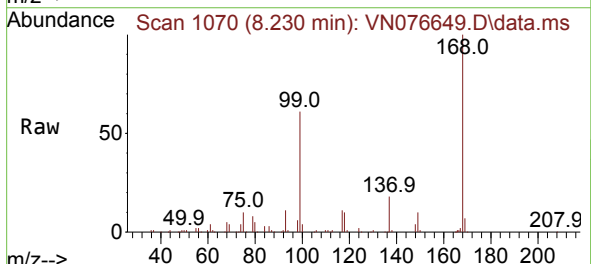
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ClientSampleId :
BARN-EAST-END-DRAIN

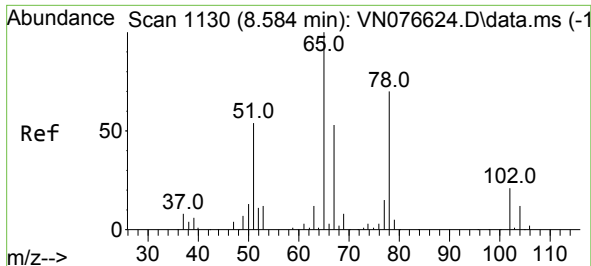
Tgt Ion: 43 Resp: 31633
Ion Ratio Lower Upper
43 100
72 22.4 19.4 29.2



#31
Cyclohexane
Concen: 1.175 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.030 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 56 Resp: 8637
Ion Ratio Lower Upper
56 100
69 149.5 21.6 32.4#
84 142.7 65.1 97.7#





#33

1,2-Dichloroethane-d4

Concen: 48.977 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076649.D

Acq: 13 Feb 2023 23:56

Instrument :

MSVOA_N

ClientSampleId :

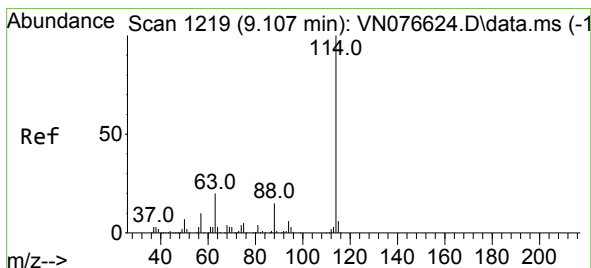
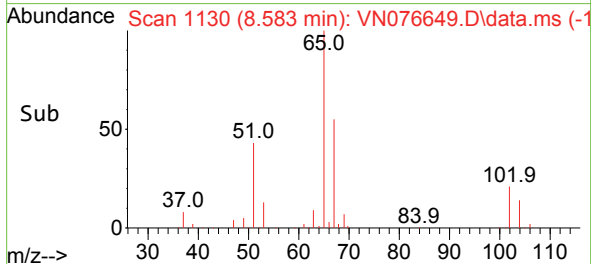
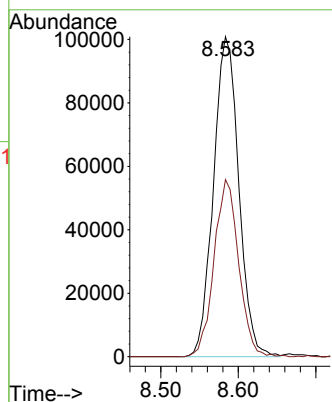
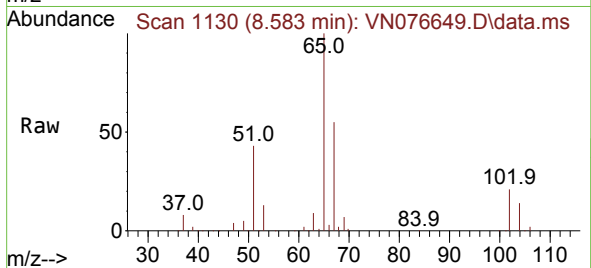
BARN-EAST-END-DRAIN

Tgt Ion: 65 Resp: 229474

Ion Ratio Lower Upper

65 100

67 53.8 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076649.D

Acq: 13 Feb 2023 23:56

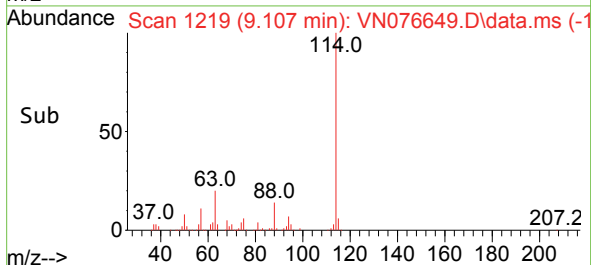
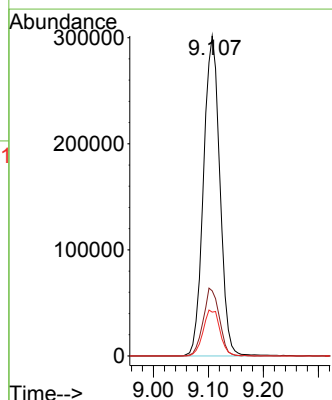
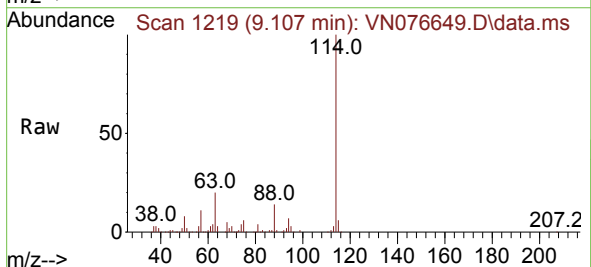
Tgt Ion: 114 Resp: 623476

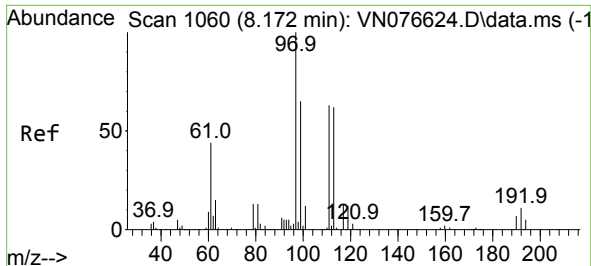
Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.0

88 13.7 0.0 29.6

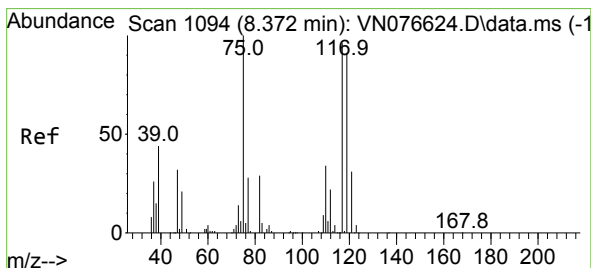
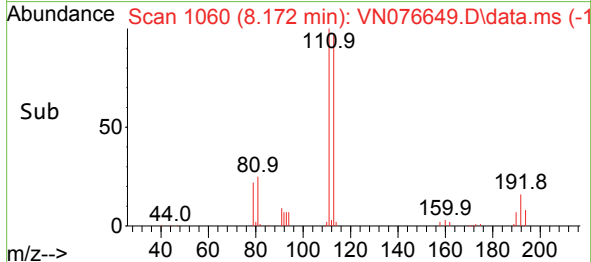
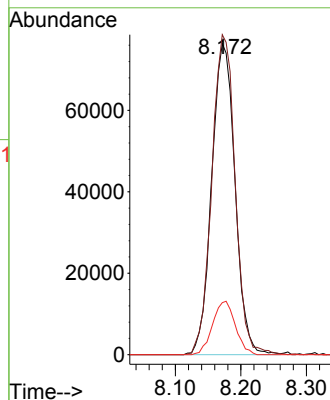
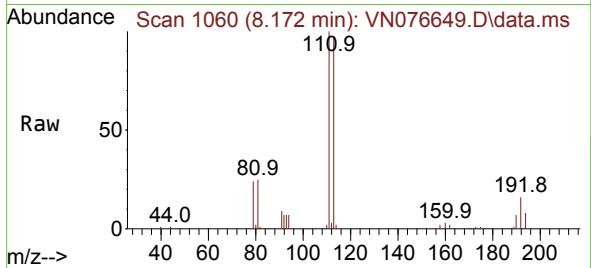




#35
Dibromofluoromethane
Concen: 46.227 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

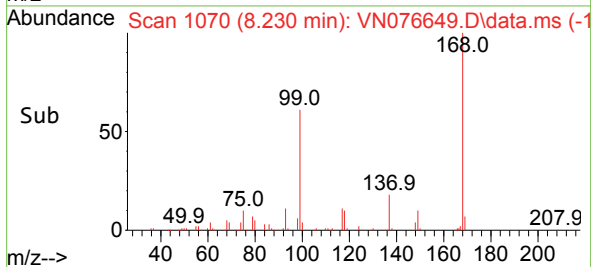
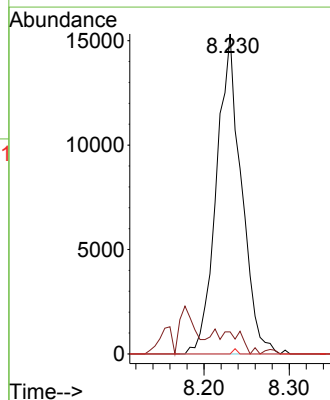
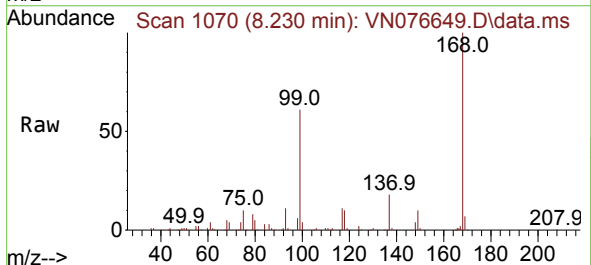
Instrument :
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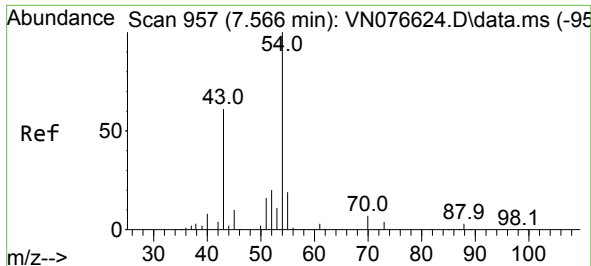
Tgt Ion:113 Resp: 188746
Ion Ratio Lower Upper
113 100
111 102.8 83.1 124.7
192 16.8 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.268 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.141 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 75 Resp: 31079
Ion Ratio Lower Upper
75 100
110 0.0 17.5 52.5#
77 0.3 24.5 36.7#

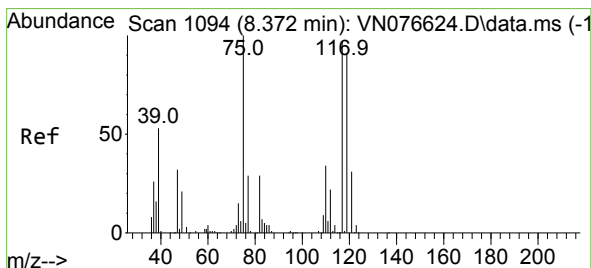
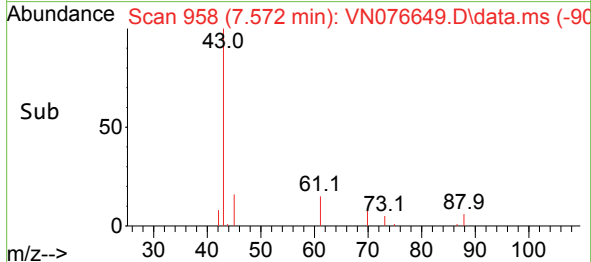
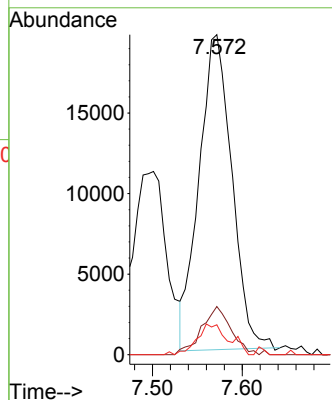
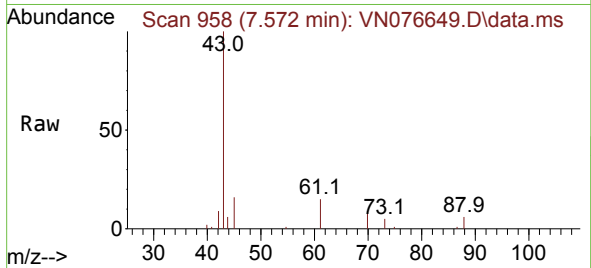




#37
Ethyl Acetate
Concen: 7.995 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

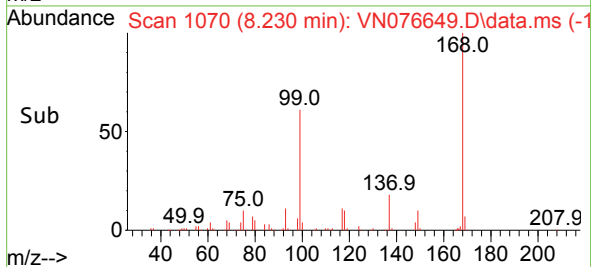
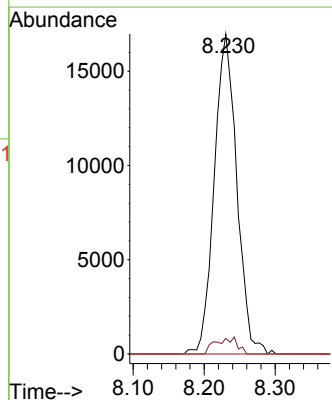
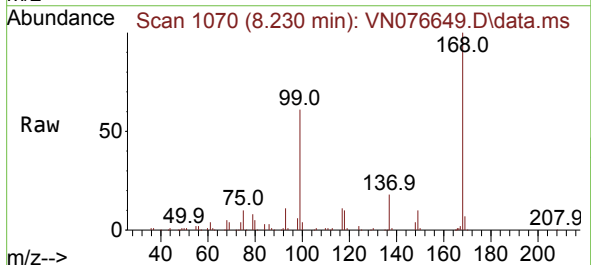
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

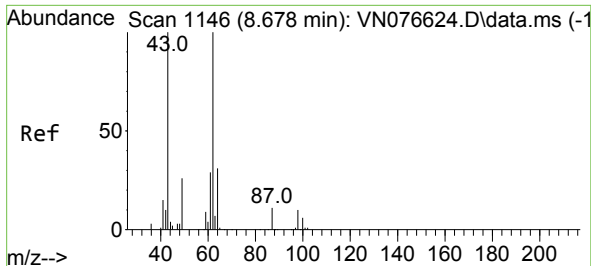
Tgt Ion: 43 Resp: 49624
Ion Ratio Lower Upper
43 100
61 13.9 9.9 14.9
70 9.3 7.8 11.6



#38
Carbon Tetrachloride
Concen: 6.281 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.141 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 117 Resp: 37380
Ion Ratio Lower Upper
117 100
119 4.9 75.4 113.0#
121 0.0 26.0 39.0#





#42

1,2-Dichloroethane

Concen: 0.233 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.012 min

Lab File: VN076649.D

Acq: 13 Feb 2023 23:56

Instrument :

MSVOA_N

ClientSampleId :

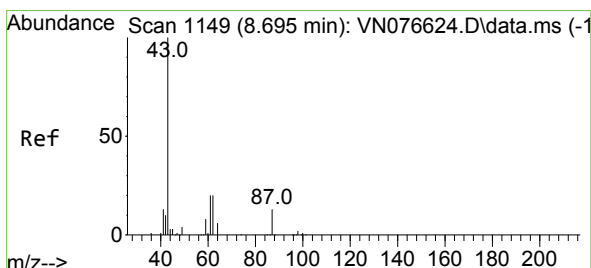
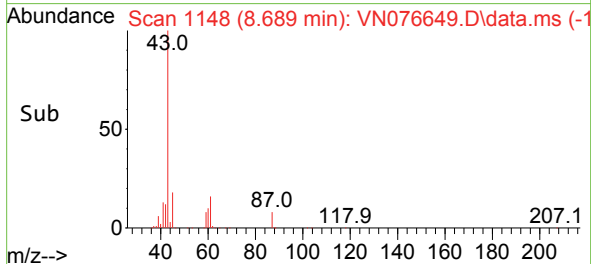
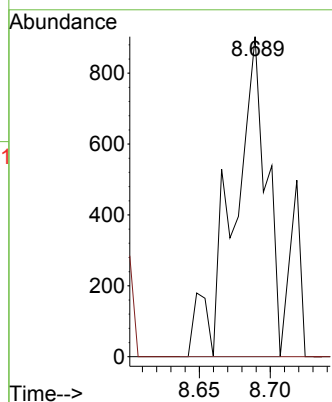
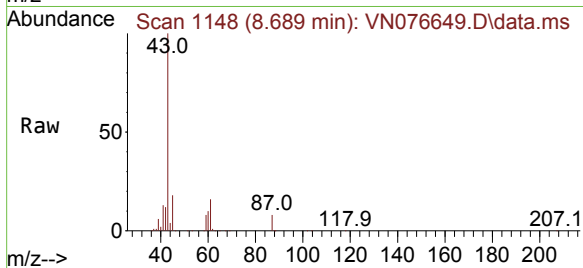
BARN-EAST-END-DRAIN

Tgt Ion: 62 Resp: 1470

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.2



#43

Isopropyl Acetate

Concen: 40.695 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. -0.006 min

Lab File: VN076649.D

Acq: 13 Feb 2023 23:56

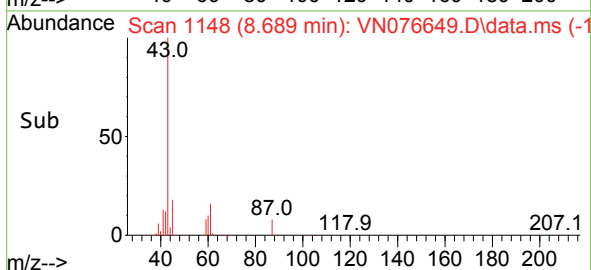
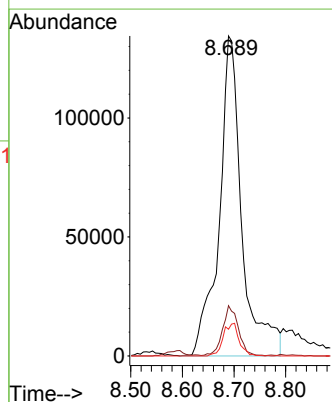
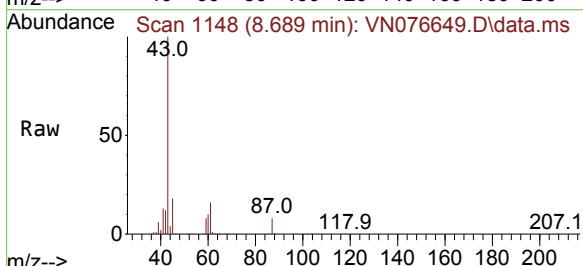
Tgt Ion: 43 Resp: 411022

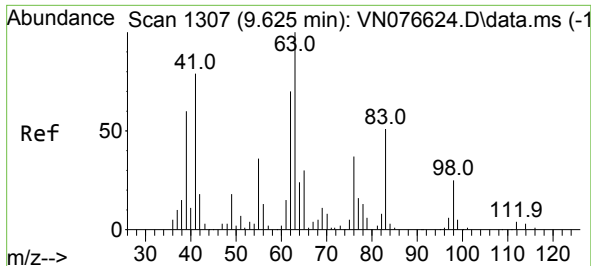
Ion Ratio Lower Upper

43 100

61 10.8 20.0 30.0#

87 7.1 9.9 14.9#

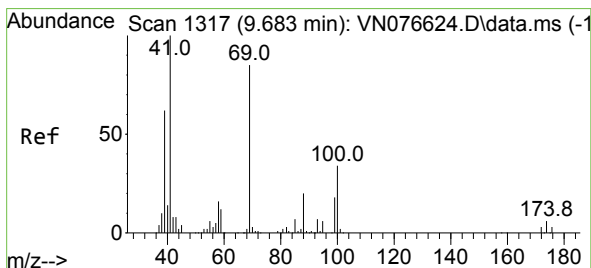
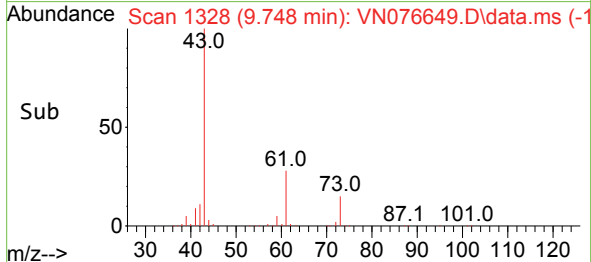
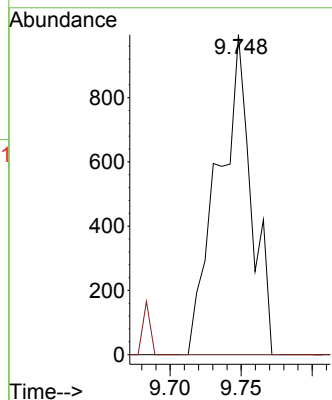
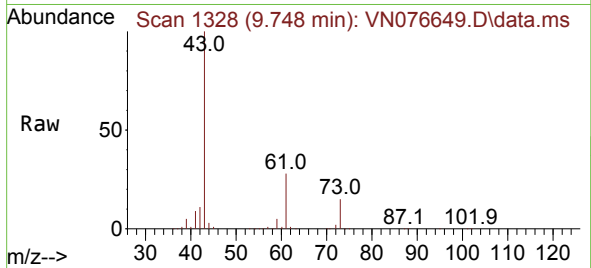




#45
1,2-Dichloropropane
Concen: 0.338 ug/l
RT: 9.748 min Scan# 11
Delta R.T. 0.123 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

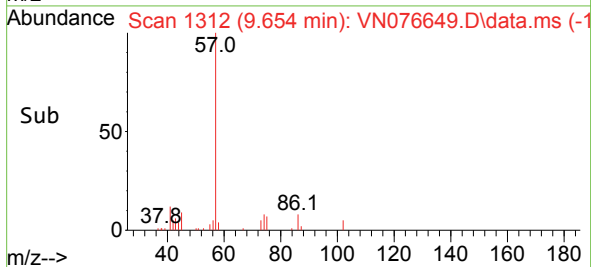
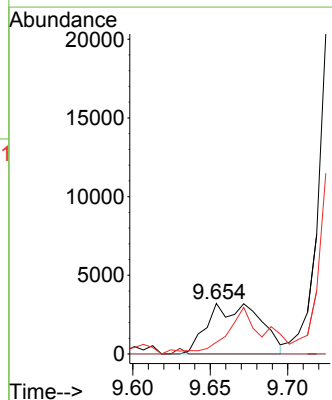
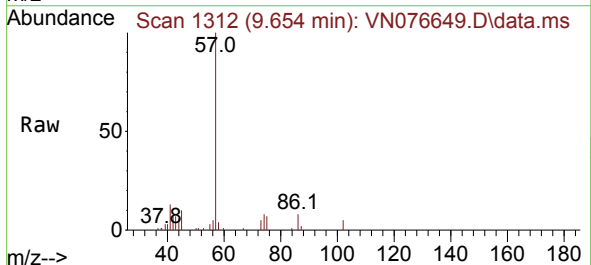
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

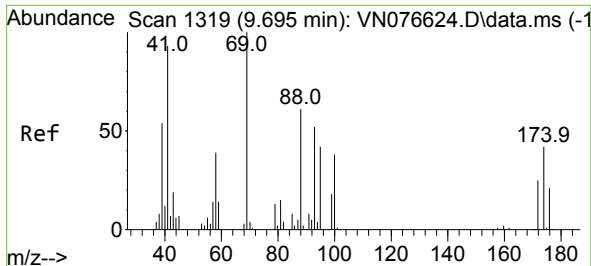
Tgt Ion: 63 Resp: 1623
Ion Ratio Lower Upper
63 100
65 0.0 24.2 36.2#



#48
Methyl methacrylate
Concen: 1.565 ug/l
RT: 9.654 min Scan# 1312
Delta R.T. -0.030 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 41 Resp: 7501
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 55.4 49.3 73.9





#49

1,4-Dioxane

Concen: 0.784 ug/l

RT: 9.683 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN076649.D

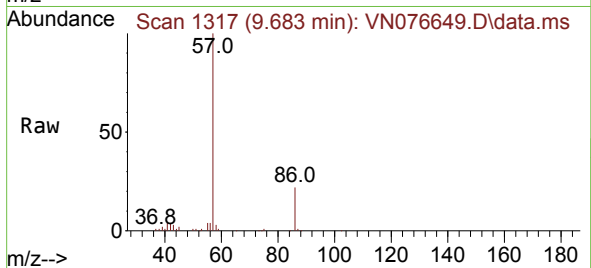
Acq: 13 Feb 2023 23:56

Instrument :

MSVOA_N

ClientSampleId :

BARN-EAST-END-DRAIN



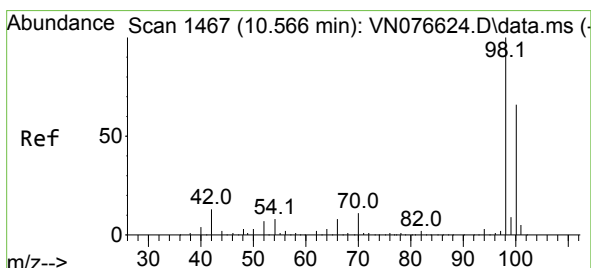
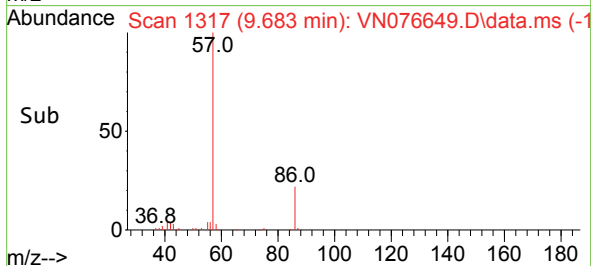
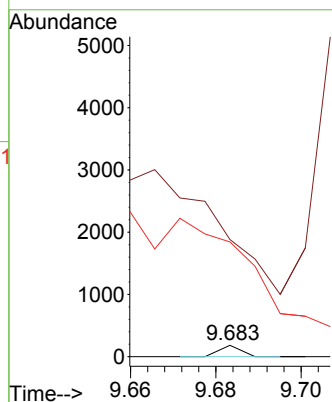
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 0.0 22.6 33.8#

58 0.0 57.6 86.4#



#50

Toluene-d8

Concen: 50.639 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN076649.D

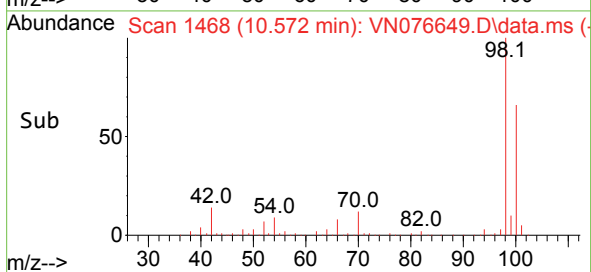
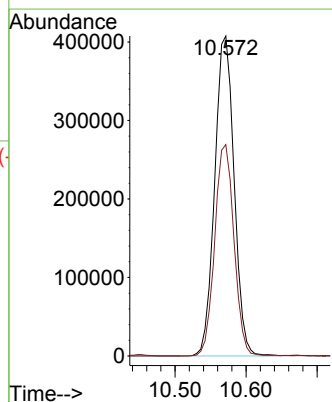
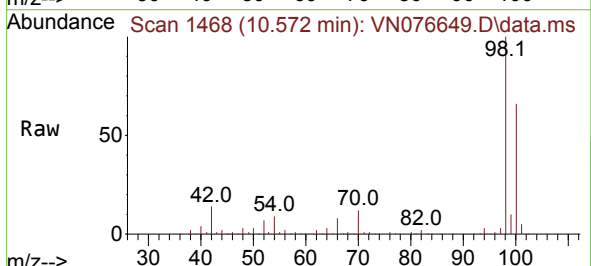
Acq: 13 Feb 2023 23:56

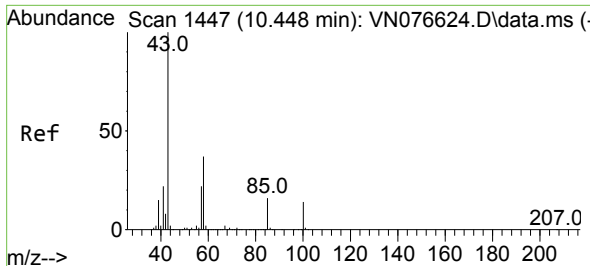
Tgt Ion: 98 Resp: 772159

Ion Ratio Lower Upper

98 100

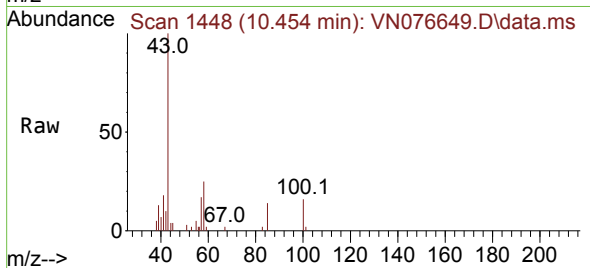
100 65.6 52.9 79.3



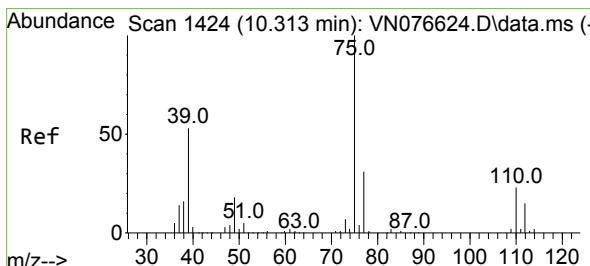
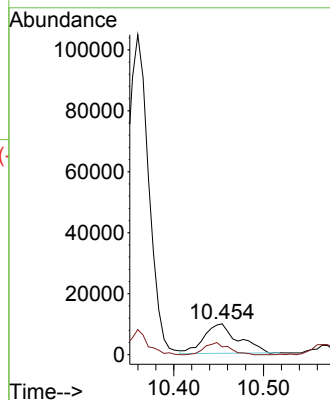
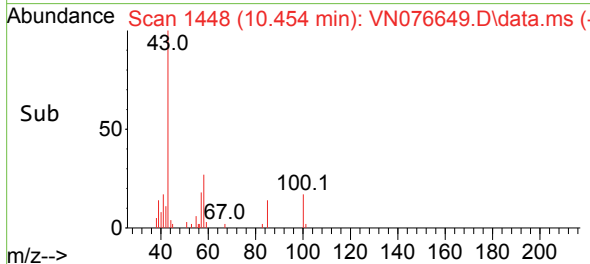


#51
4-Methyl-2-Pentanone
Concen: 4.016 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

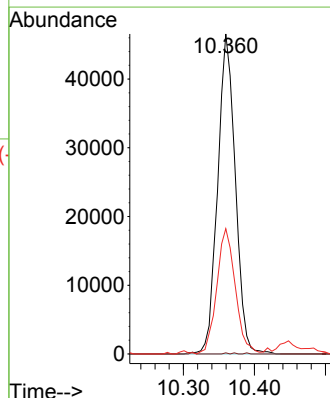
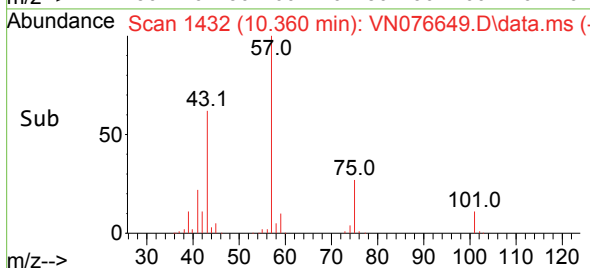
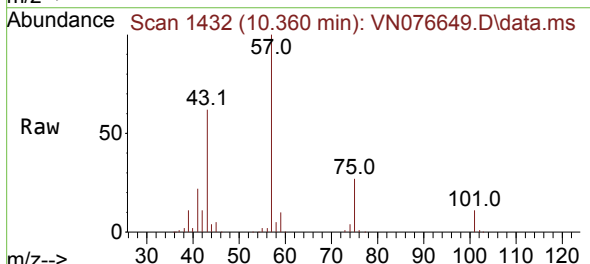


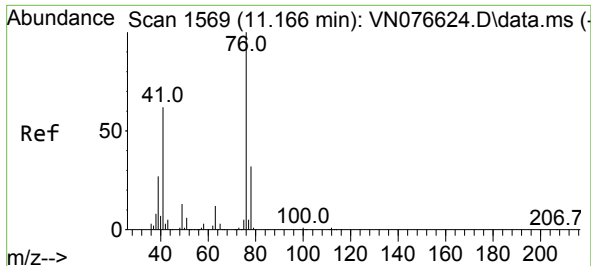
Tgt Ion: 43 Resp: 25806
Ion Ratio Lower Upper
43 100
58 28.5 29.5 44.3#



#54
cis-1,3-Dichloropropene
Concen: 11.730 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 75 Resp: 80277
Ion Ratio Lower Upper
75 100
77 0.4 25.1 37.7#
39 38.5 42.3 63.5#





#57

1,3-Dichloropropane

Concen: 1.269 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.041 min

Lab File: VN076649.D

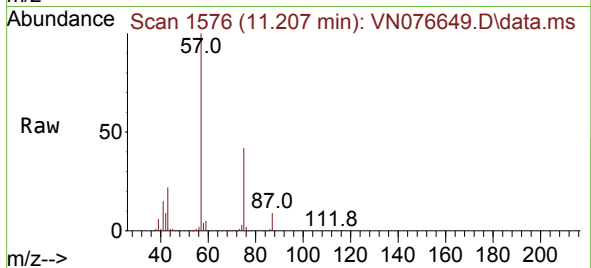
Acq: 13 Feb 2023 23:56

Instrument :

MSVOA_N

ClientSampleId :

BARN-EAST-END-DRAIN

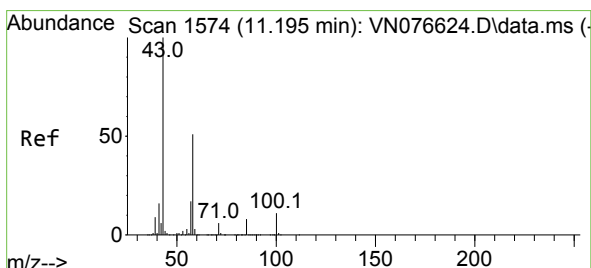
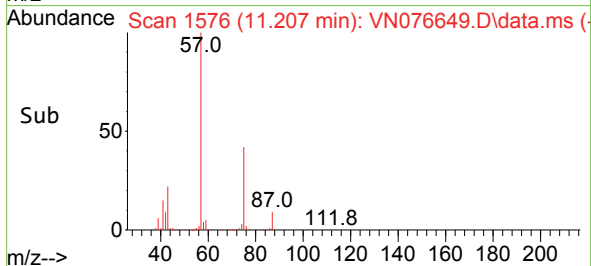
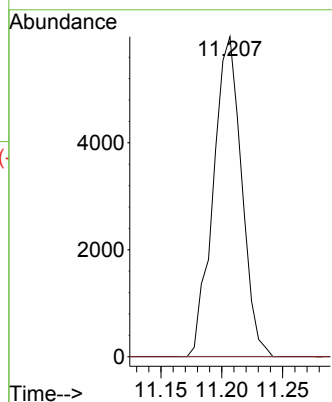


Tgt Ion: 76 Resp: 9698

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 53.640 ug/l

RT: 11.171 min Scan# 1570

Delta R.T. -0.024 min

Lab File: VN076649.D

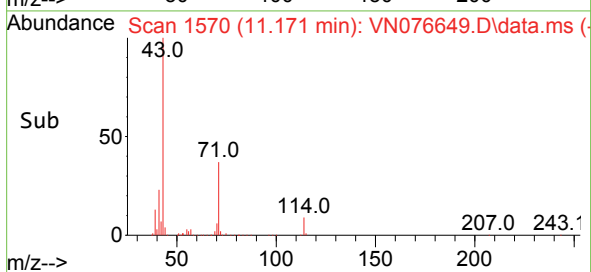
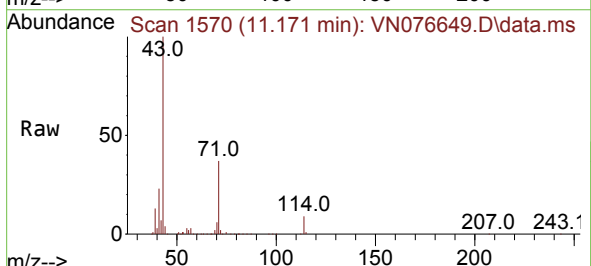
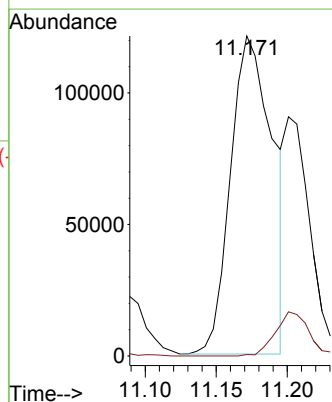
Acq: 13 Feb 2023 23:56

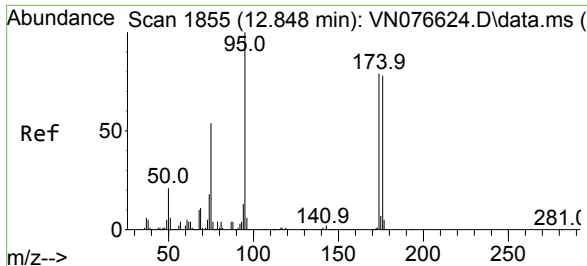
Tgt Ion: 43 Resp: 248536

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.0#

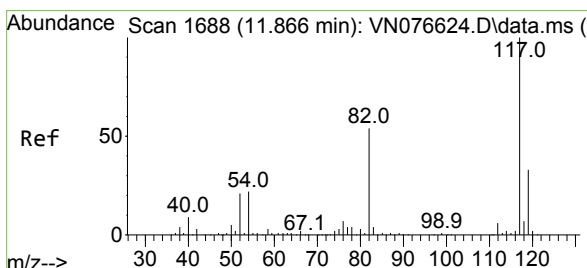
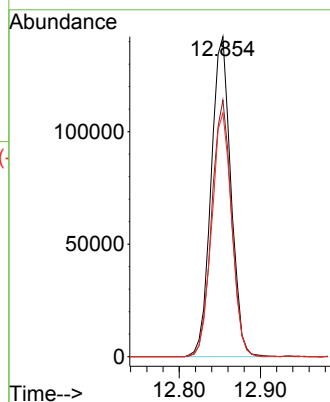
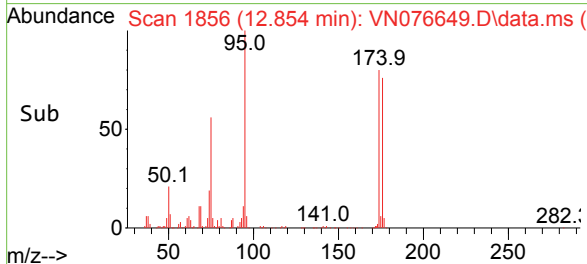
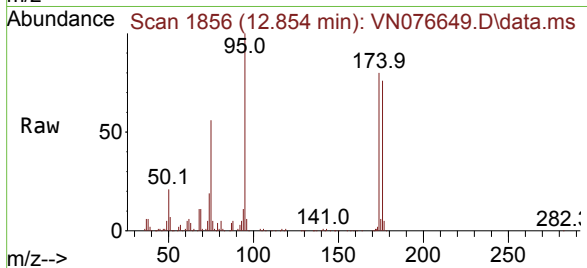




#62
4-Bromofluorobenzene
Concen: 47.560 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

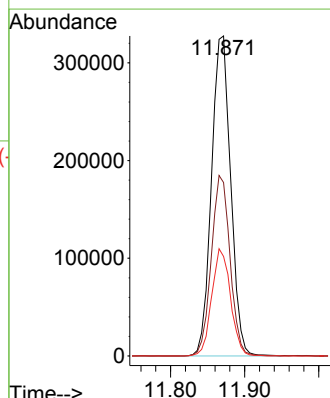
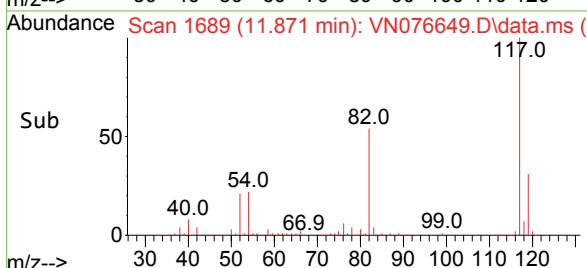
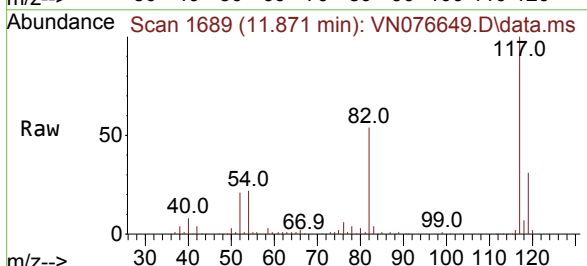
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

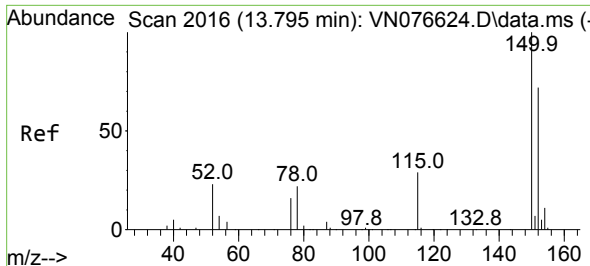
Tgt Ion: 95 Resp: 240194
Ion Ratio Lower Upper
95 100
174 80.5 0.0 169.2
176 77.2 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 117 Resp: 588579
Ion Ratio Lower Upper
117 100
82 54.2 43.4 65.2
119 31.1 26.1 39.1

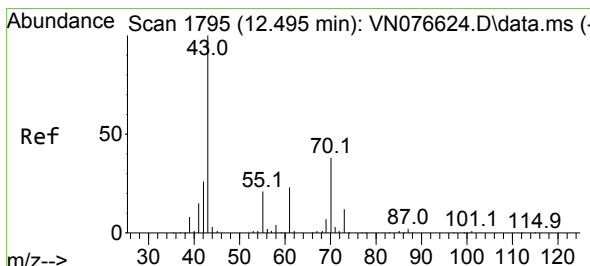
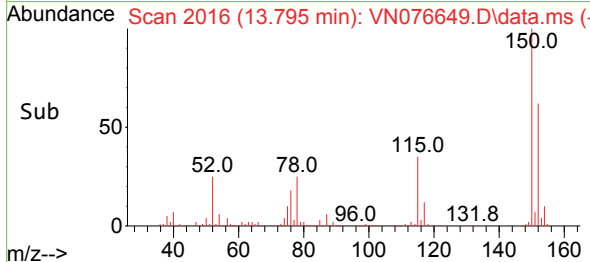
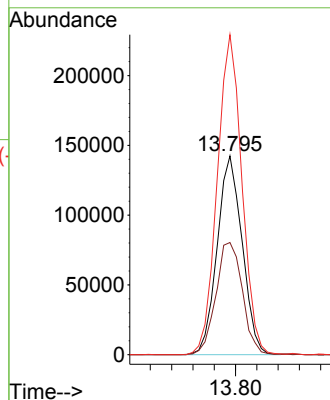
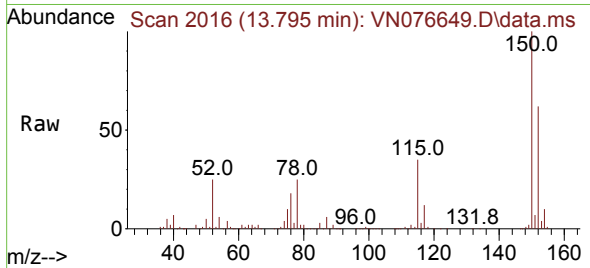




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

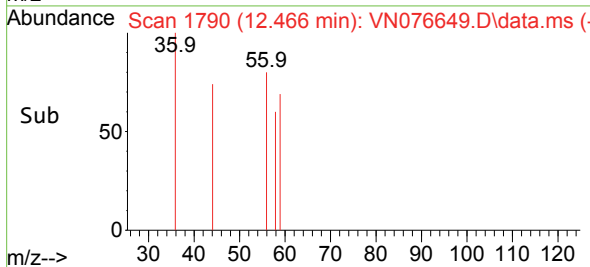
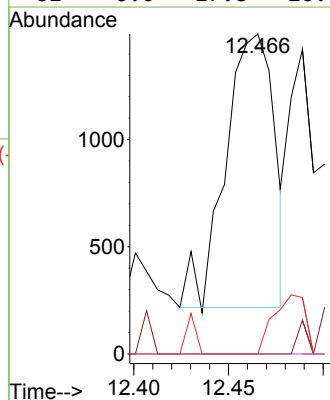
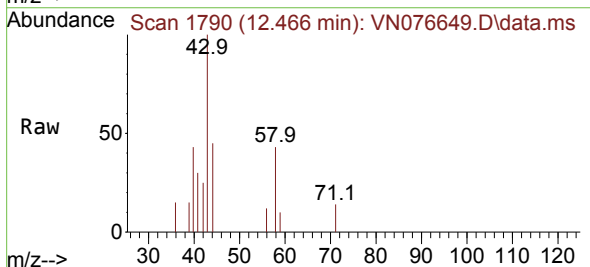
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

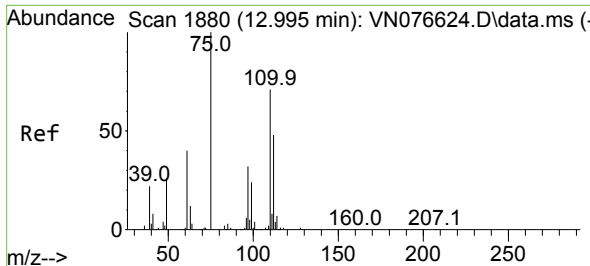
Tgt Ion:152 Resp: 231879
Ion Ratio Lower Upper
152 100
115 59.8 29.3 87.9
150 158.7 0.0 349.8



#74
N-ethyl acetate
Concen: 0.300 ug/l
RT: 12.466 min Scan# 1790
Delta R.T. -0.030 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Tgt Ion: 43 Resp: 2301
Ion Ratio Lower Upper
43 100
70 0.0 30.5 45.7#
55 0.0 17.8 26.8#
61 0.0 17.8 26.8#

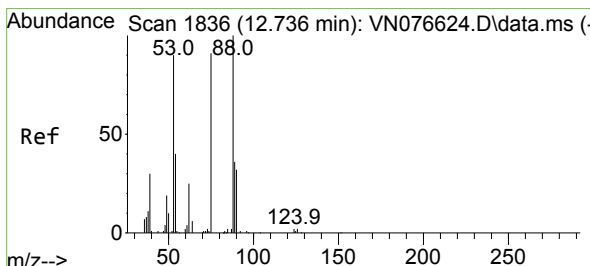
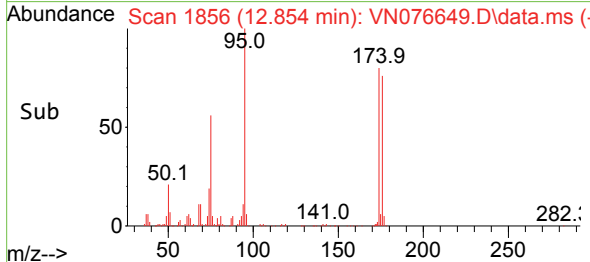
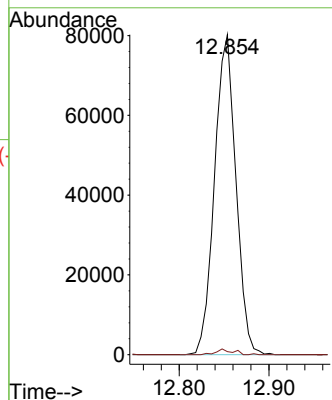
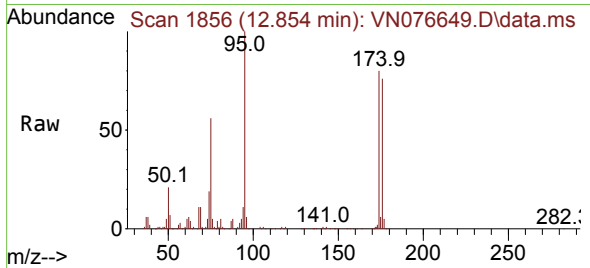




#76
1,2,3-Trichloropropane
Concen: 28.287 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

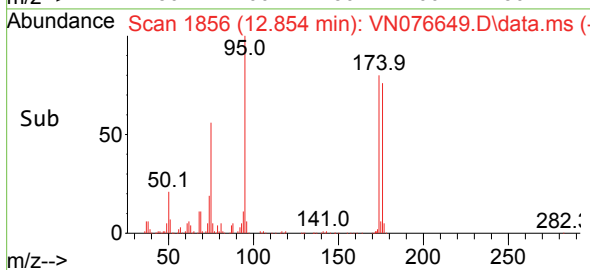
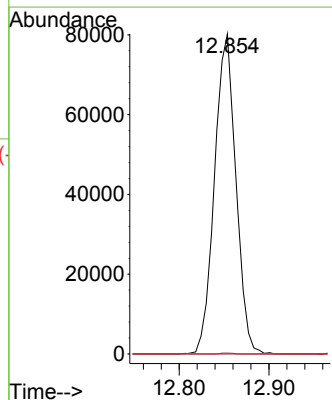
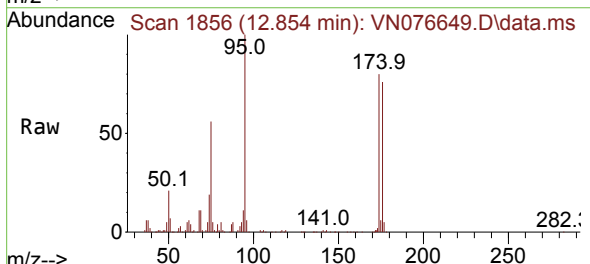
Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN

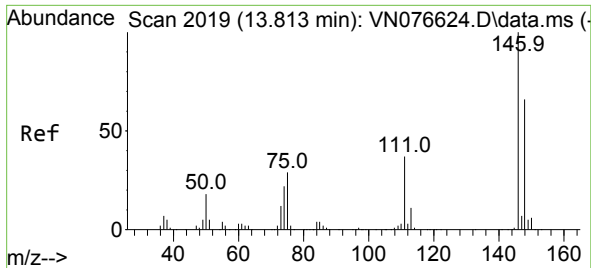
Tgt Ion: 75 Resp: 132609
Ion Ratio Lower Upper
75 100
77 1.4 93.1 279.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 82.389 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.117 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

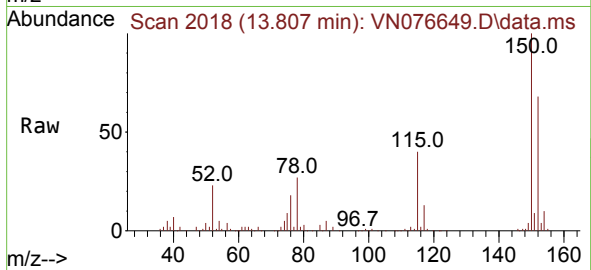
Tgt Ion: 75 Resp: 132609
Ion Ratio Lower Upper
75 100
53 0.2 92.1 138.1#
89 0.0 37.5 56.3#





#88
1,4-Dichlorobenzene
Concen: 0.214 ug/l
RT: 13.807 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN076649.D
Acq: 13 Feb 2023 23:56

Instrument :
MSVOA_N
ClientSampleId :
BARN-EAST-END-DRAIN



Tgt Ion	Ratio	Lower	Upper
146	100		
111	220.6	19.4	58.1#
148	75.9	32.7	98.1

