

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061822\
 Data File : VN072932.D
 Acq On : 18 Jun 2022 12:06
 Operator : JC\MD
 Sample : N3301-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-SO-20220609

Quant Time: Jun 20 08:03:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061722W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 18 06:22:45 2022
 Response via : Initial Calibration

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

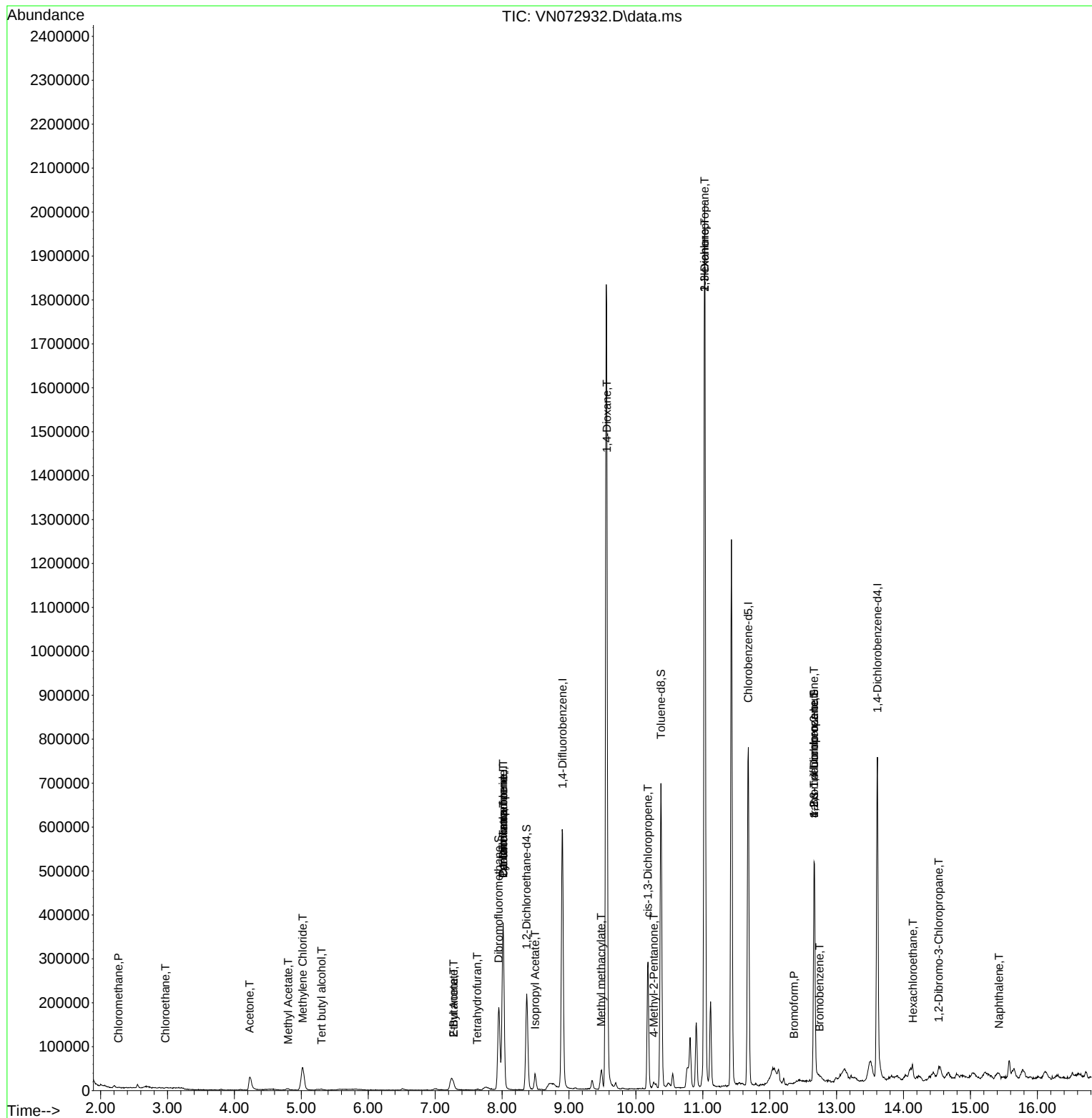
Internal Standards						
1) Pentafluorobenzene	8.016	168	292999	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	526576	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	451606	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	199399	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	178983	45.183	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.360%		
35) Dibromofluoromethane	7.951	113	139849	42.968	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	85.940%		
50) Toluene-d8	10.374	98	467677	38.616	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	77.240%#		
62) 4-Bromofluorobenzene	12.663	95	167898	38.554	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	77.100%#		
Target Compounds						Qvalue
3) Chloromethane	2.269	50	609	0.770	ug/l #	21
6) Chloroethane	2.969	64	323	0.206	ug/l #	42
11) Tert butyl alcohol	5.304	59	3040	2.971	ug/l #	78
16) Acetone	4.228	43	55436	25.459	ug/l	96
18) Methyl Acetate	4.804	43	7527	1.298	ug/l #	68
20) Methylene Chloride	5.022	84	42247	12.326	ug/l	94
25) 2-Butanone	7.275	43	25856	7.483	ug/l #	87
26) 2,2-Dichloropropane	7.233	77	1882	Below Cal	#	53
29) Tetrahydrofuran	7.628	42	1883	0.825	ug/l #	41
31) Cyclohexane	8.016	56	6192	1.156	ug/l #	1
36) 1,1-Dichloropropene	8.016	75	23139	5.254	ug/l #	49
37) Ethyl Acetate	7.275	43	25856	3.671	ug/l #	67
38) Carbon Tetrachloride	8.016	117	28849	6.228	ug/l #	16
43) Isopropyl Acetate	8.492	43	40687	4.041	ug/l #	86
48) Methyl methacrylate	9.480	41	12583	2.737	ug/l #	22
49) 1,4-Dioxane	9.569	88	151	1.460	ug/l #	1
51) 4-Methyl-2-Pentanone	10.269	43	7273	1.108	ug/l #	80
54) cis-1,3-Dichloropropene	10.180	75	53652	9.607	ug/l #	63
57) 1,3-Dichloropropane	11.027	76	20989	3.391	ug/l #	42
59) 2-Hexanone	11.027	43	333124	65.593	ug/l #	44
71) Bromoform	12.363	173	528	0.209	ug/l #	28
76) 1,2,3-Trichloropropane	12.663	75	86860	17.967	ug/l #	1
77) Bromobenzene	12.745	156	754	0.204	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.663	75	86860	48.522	ug/l #	11
90) Hexachloroethane	14.139	117	714	0.302	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.527	75	469	0.252	ug/l #	51
95) Naphthalene	15.427	128	8436	0.548	ug/l #	81

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

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Quant Title : SW846 8260
QLast Update : Sat Jun 18 06:22:45 2022
Response via : Initial Calibration

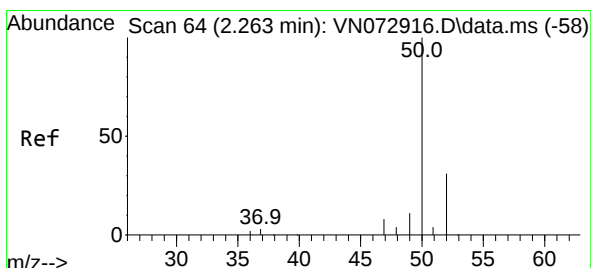
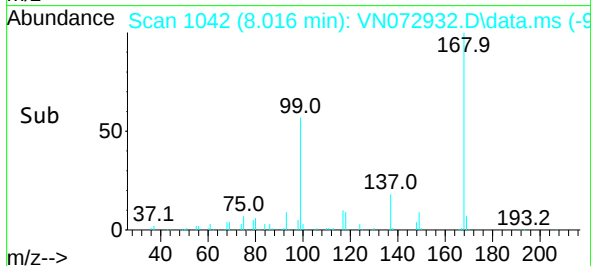
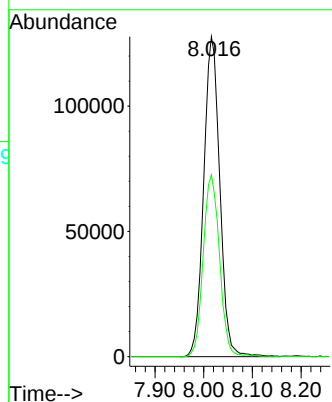
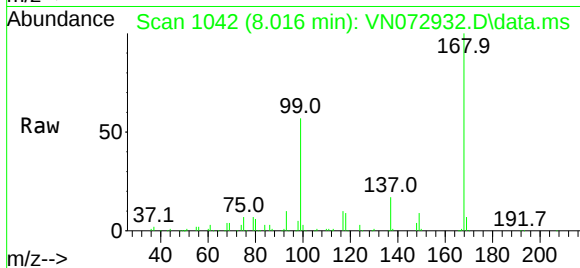




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

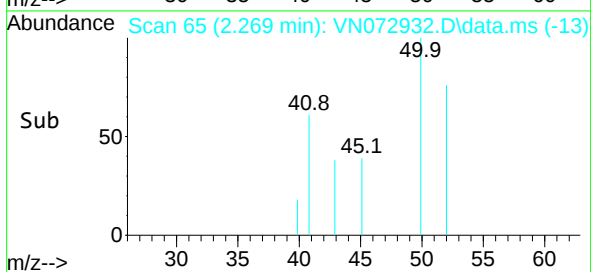
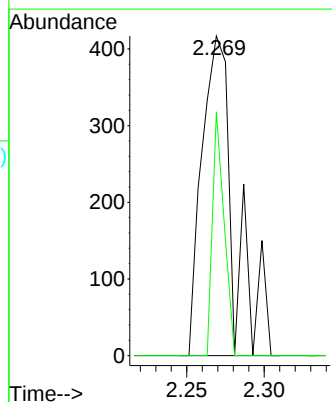
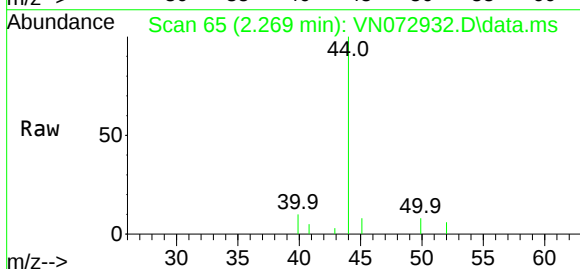
Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

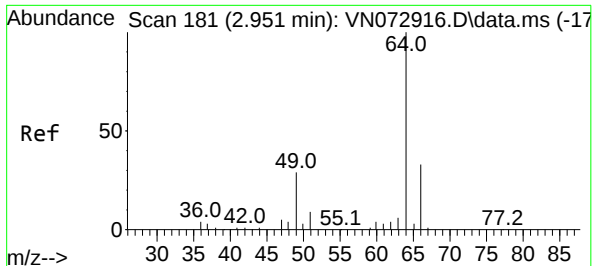
Tgt Ion:168 Resp: 292999
Ion Ratio Lower Upper
168 100
99 56.9 42.3 63.5



#3
Chloromethane
Concen: 0.770 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion: 50 Resp: 609
Ion Ratio Lower Upper
50 100
52 76.3 25.7 38.5#

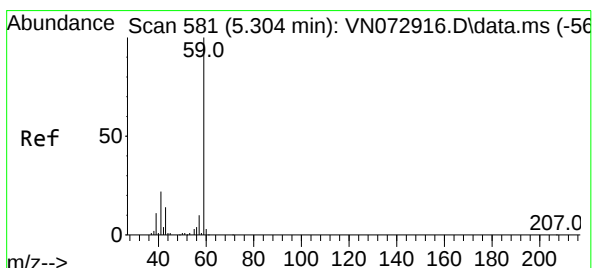
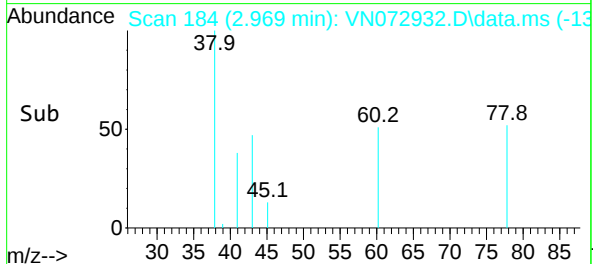
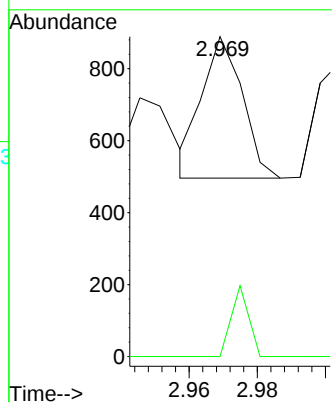
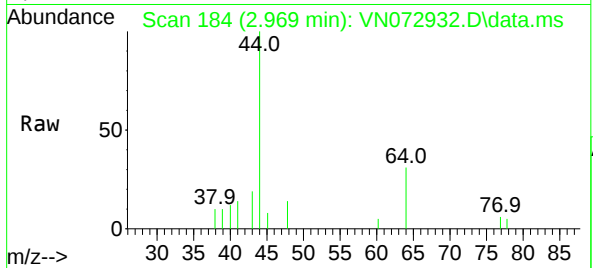




#6
Chloroethane
Concen: 0.206 ug/l
RT: 2.969 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

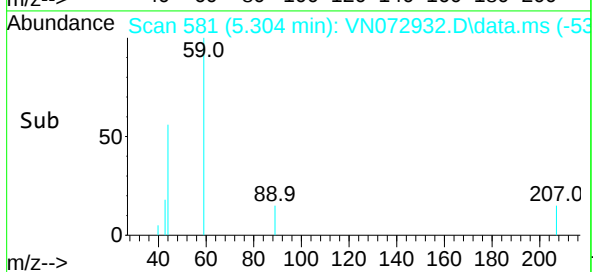
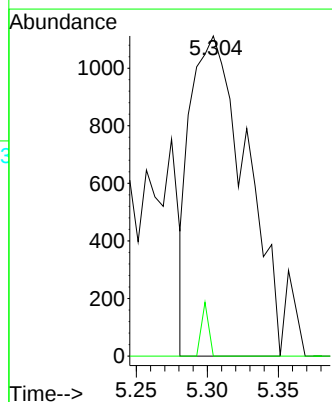
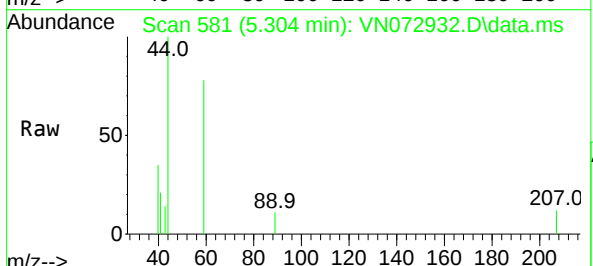
Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

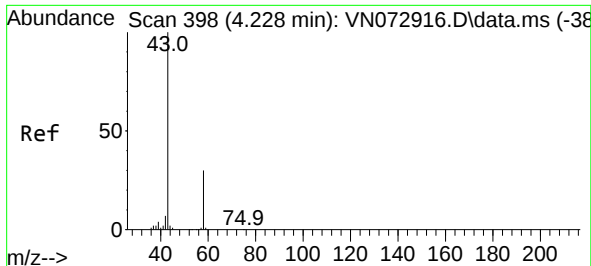
Tgt Ion: 64 Resp: 323
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 2.971 ug/l
RT: 5.304 min Scan# 581
Delta R.T. -0.000 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion: 59 Resp: 3040
Ion Ratio Lower Upper
59 100
57 2.2 8.3 12.5#





#16

Acetone

Concen: 25.459 ug/l

RT: 4.228 min Scan# 398

Delta R.T. -0.000 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

Instrument :

MSVOA_N

ClientSampleId :

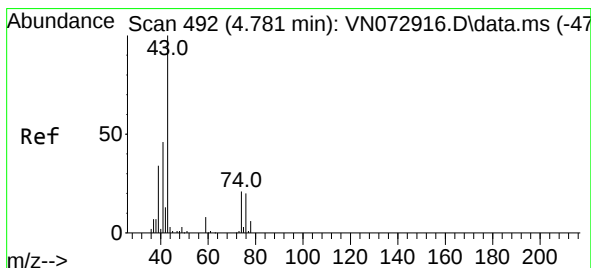
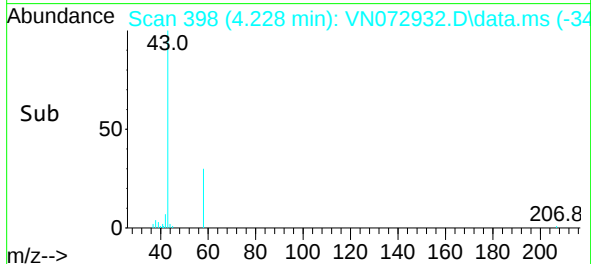
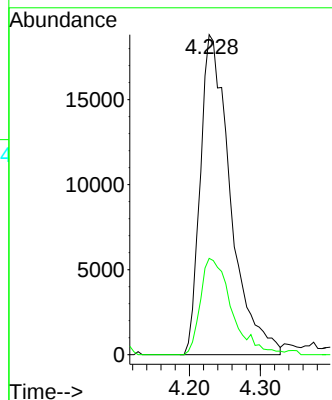
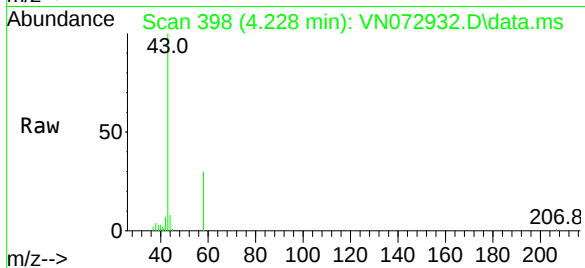
WC-SO-20220609

Tgt Ion: 43 Resp: 55436

Ion Ratio Lower Upper

43 100

58 30.1 26.0 39.0



#18

Methyl Acetate

Concen: 1.298 ug/l

RT: 4.804 min Scan# 496

Delta R.T. 0.024 min

Lab File: VN072932.D

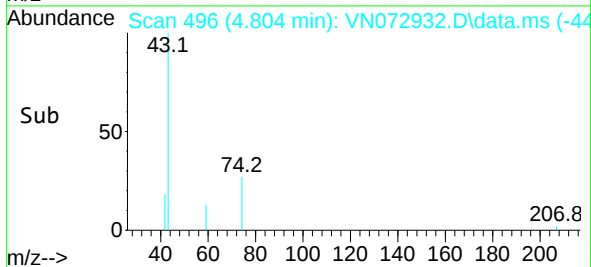
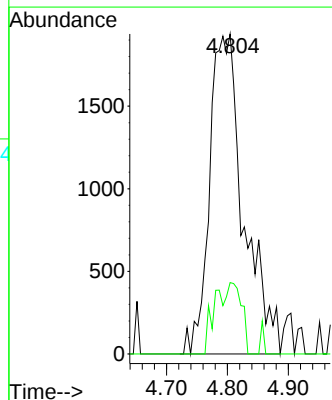
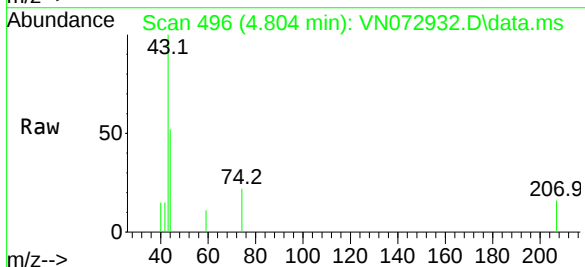
Acq: 18 Jun 2022 12:06

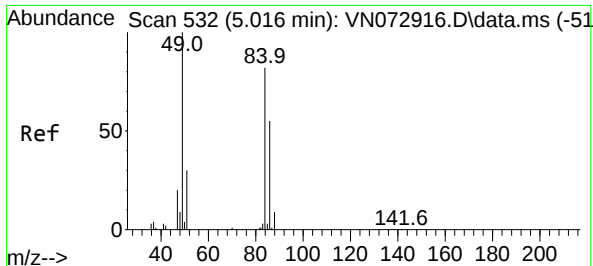
Tgt Ion: 43 Resp: 7527

Ion Ratio Lower Upper

43 100

74 10.2 21.6 32.4#





#20

Methylene Chloride

Concen: 12.326 ug/l

RT: 5.022 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

Instrument :

MSVOA_N

ClientSampleId :

WC-SO-20220609

Tgt Ion: 84 Resp: 42247

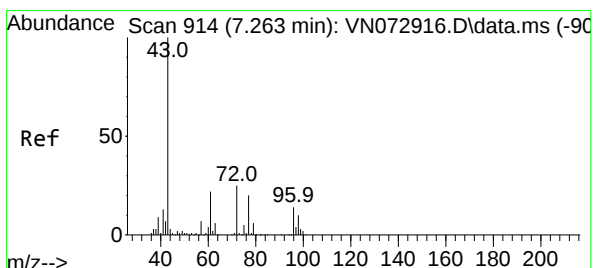
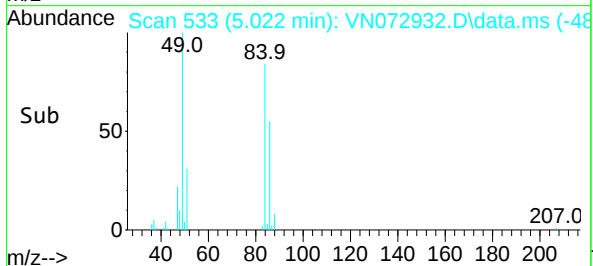
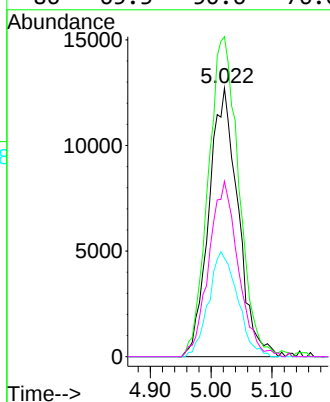
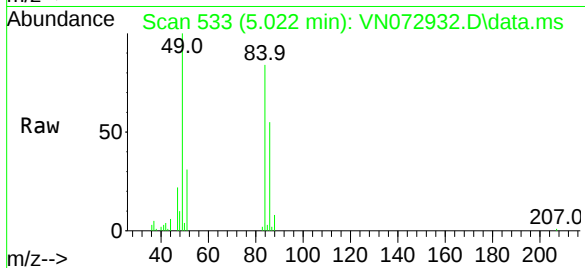
Ion Ratio Lower Upper

84 100

49 119.2 88.3 132.5

51 36.7 28.2 42.2

86 65.3 50.6 76.0



#25

2-Butanone

Concen: 7.483 ug/l

RT: 7.275 min Scan# 916

Delta R.T. 0.012 min

Lab File: VN072932.D

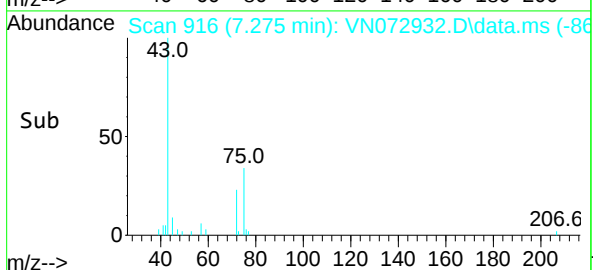
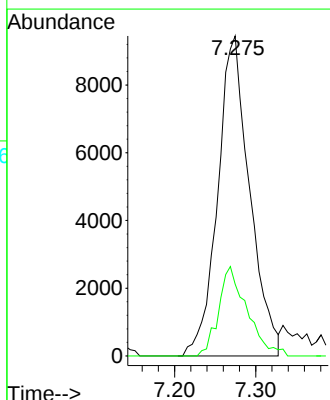
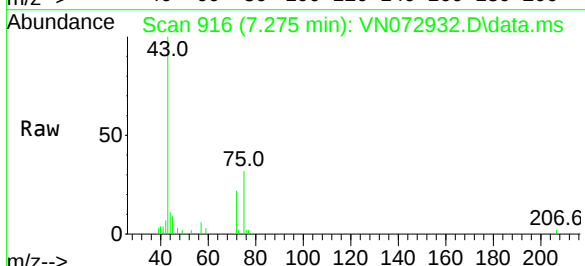
Acq: 18 Jun 2022 12:06

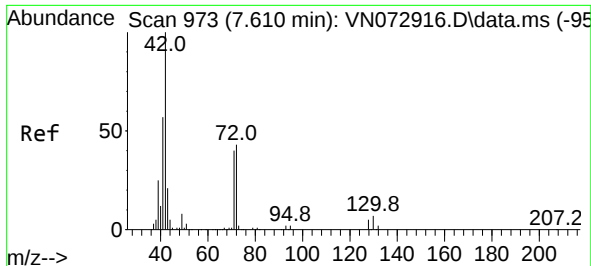
Tgt Ion: 43 Resp: 25856

Ion Ratio Lower Upper

43 100

72 22.5 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.825 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN072932.D

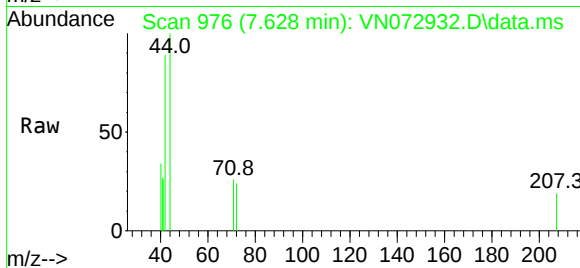
Acq: 18 Jun 2022 12:06

Instrument :

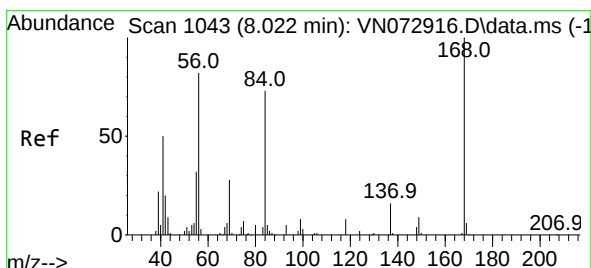
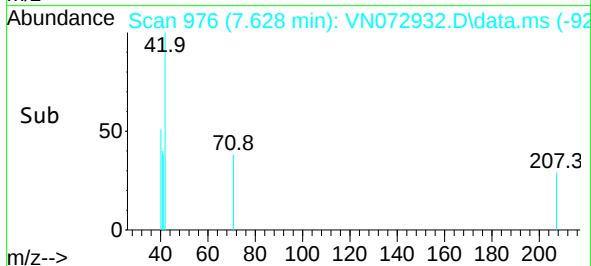
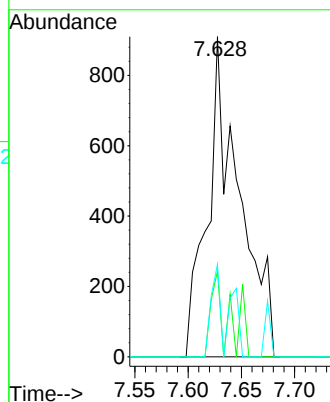
MSVOA_N

ClientSampleId :

WC-SO-20220609



Tgt Ion:	42	Resp:	1883
Ion	Ratio	Lower	Upper
42	100		
72	7.6	39.7	59.5#
71	8.2	36.6	55.0#



#31

Cyclohexane

Concen: 1.156 ug/l

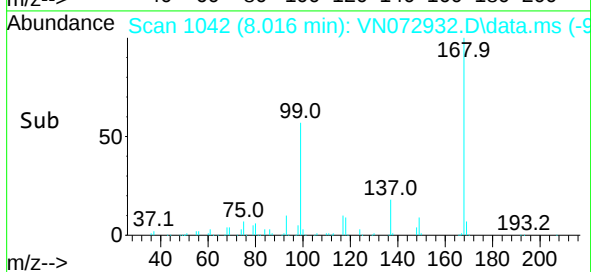
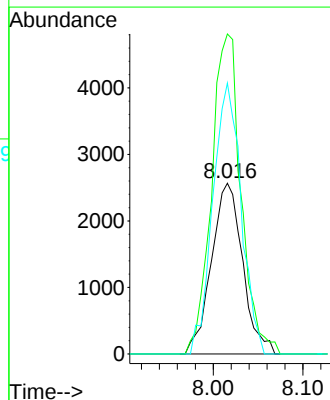
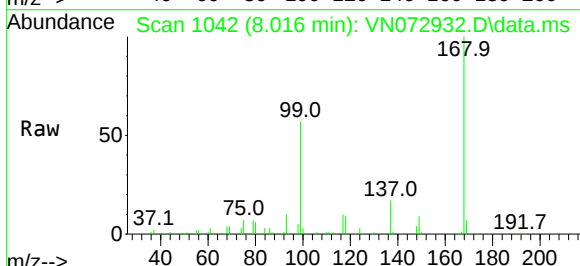
RT: 8.016 min Scan# 1042

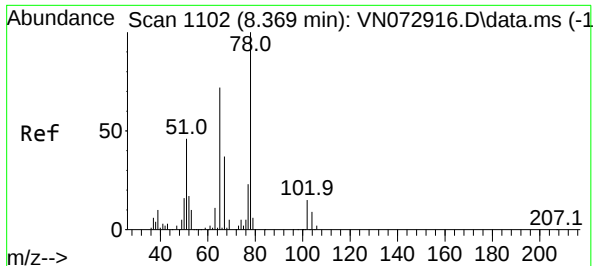
Delta R.T. -0.006 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

Tgt Ion:	56	Resp:	6192
Ion	Ratio	Lower	Upper
56	100		
69	187.5	27.8	41.8#
84	158.7	76.9	115.3#





#33

1,2-Dichloroethane-d4

Concen: 45.183 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

Instrument :

MSVOA_N

ClientSampleId :

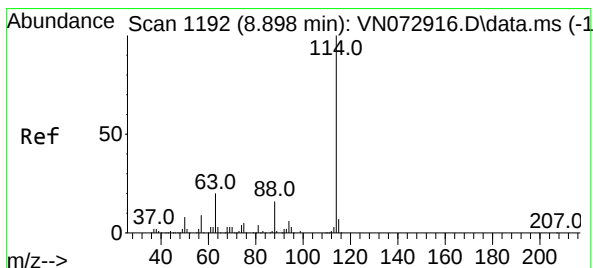
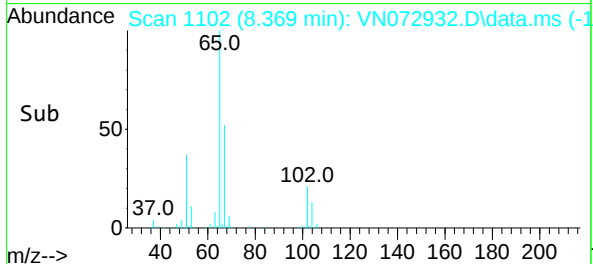
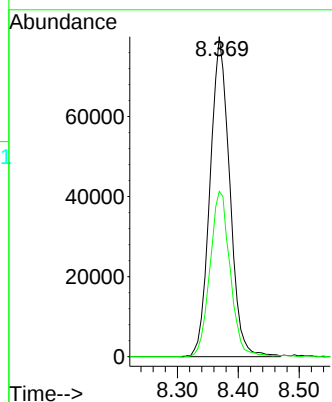
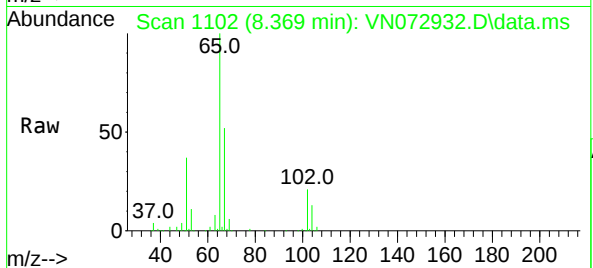
WC-SO-20220609

Tgt Ion: 65 Resp: 178983

Ion Ratio Lower Upper

65 100

67 53.0 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

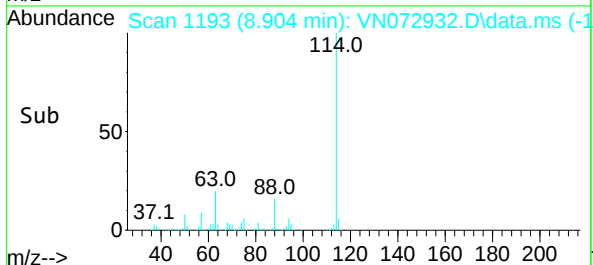
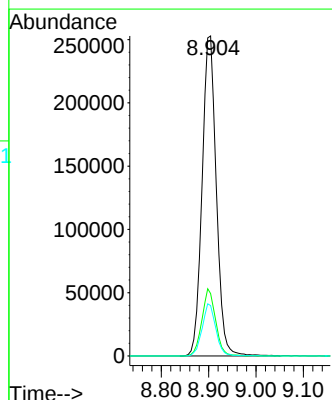
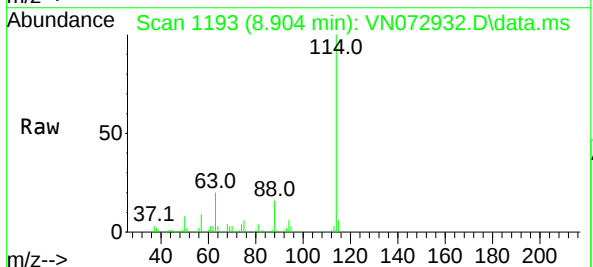
Tgt Ion: 114 Resp: 526576

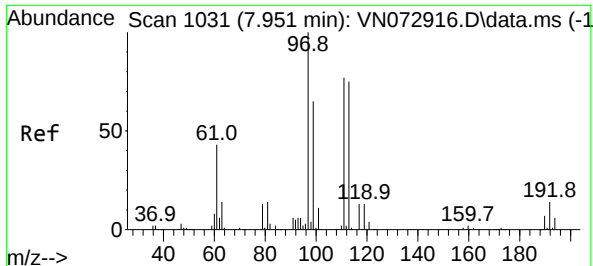
Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

88 15.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 42.968 ug/l

RT: 7.951 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

Instrument :

MSVOA_N

ClientSampleId :

WC-SO-20220609

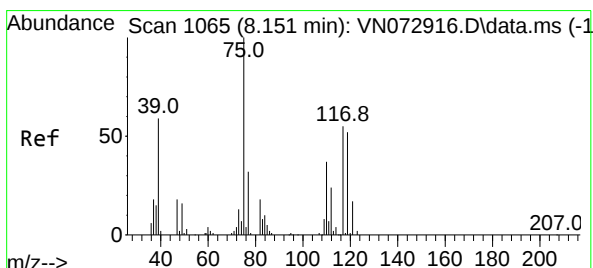
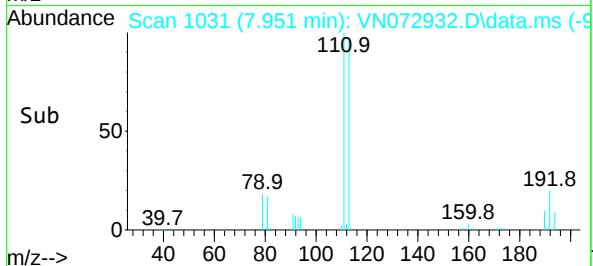
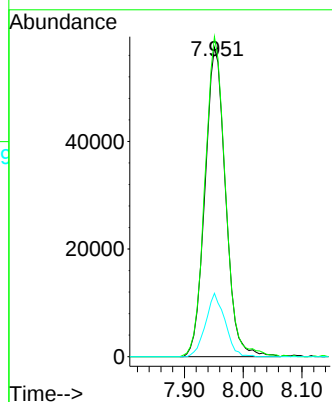
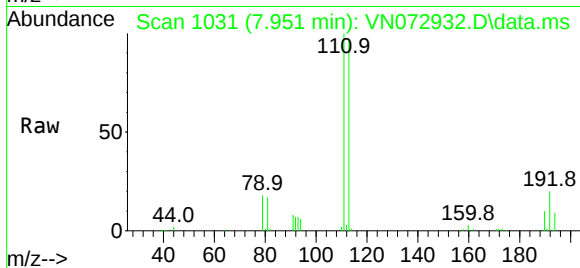
Tgt Ion:113 Resp: 139849

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

192 19.3 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.254 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

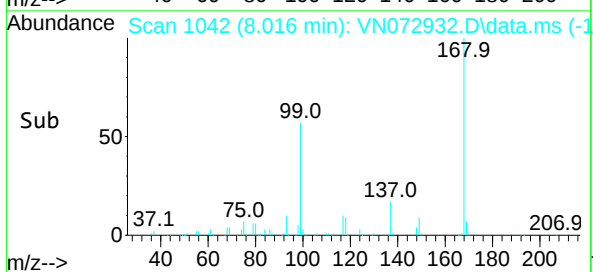
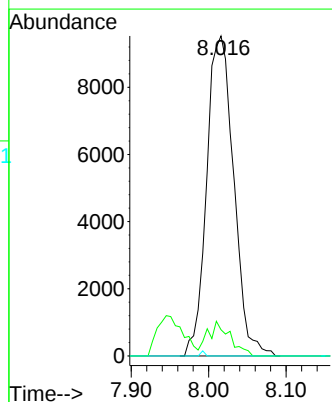
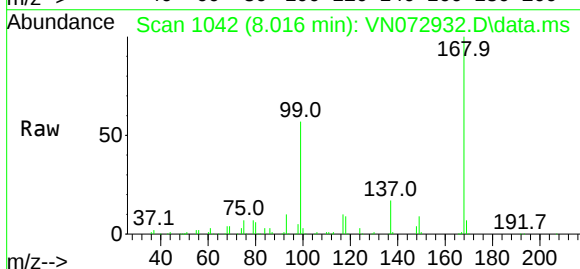
Tgt Ion: 75 Resp: 23139

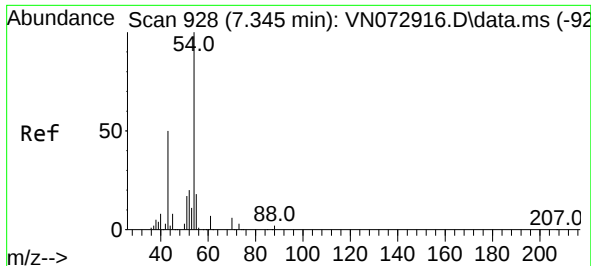
Ion Ratio Lower Upper

75 100

110 9.0 18.3 54.8#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 3.671 ug/l

RT: 7.275 min Scan# 91

Delta R.T. -0.071 min

Lab File: VN072932.D

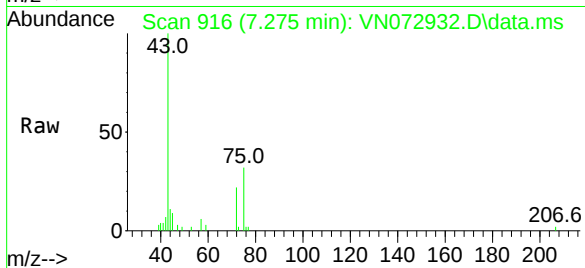
Acq: 18 Jun 2022 12:06

Instrument :

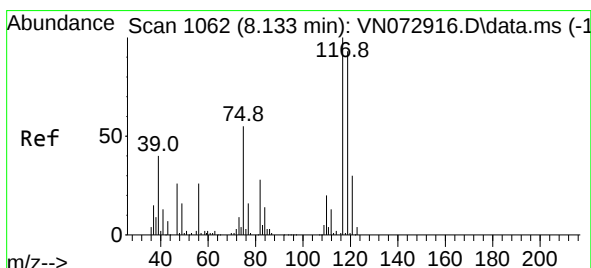
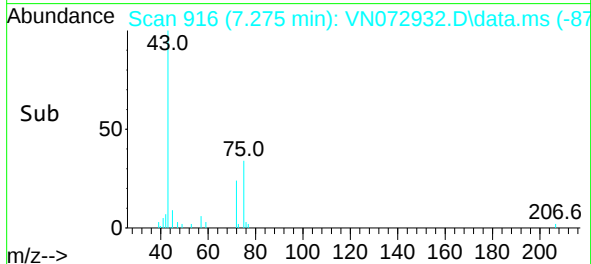
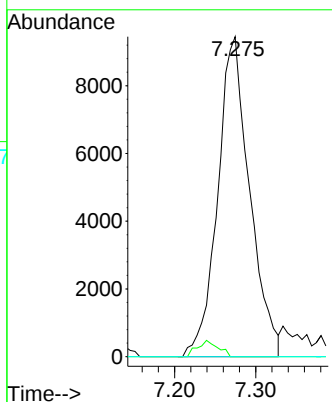
MSVOA_N

ClientSampleId :

WC-SO-20220609



Tgt Ion:	43	Resp:	25856
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	0.0	9.3	13.9#



#38

Carbon Tetrachloride

Concen: 6.228 ug/l

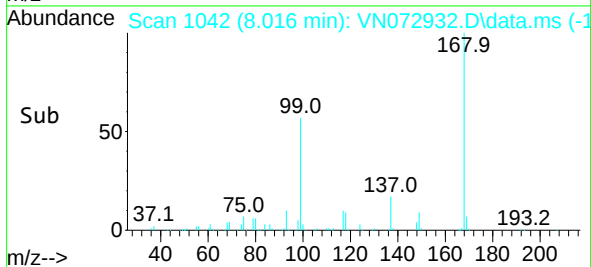
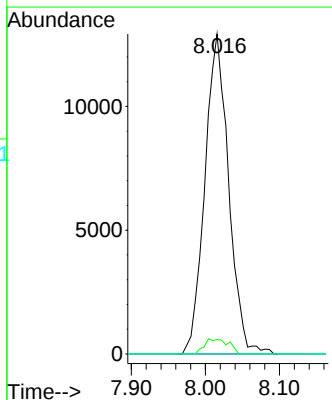
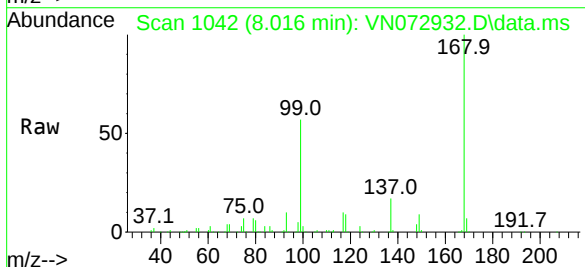
RT: 8.016 min Scan# 1042

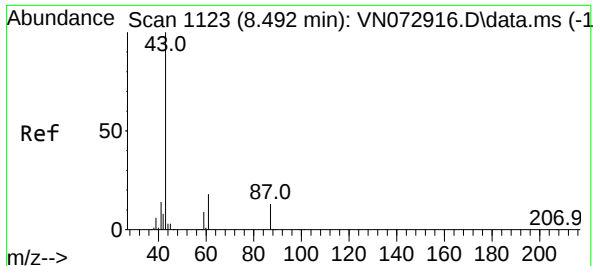
Delta R.T. -0.118 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

Tgt Ion:	117	Resp:	28849
Ion	Ratio	Lower	Upper
117	100		
119	4.5	75.8	113.8#
121	0.0	24.6	37.0#

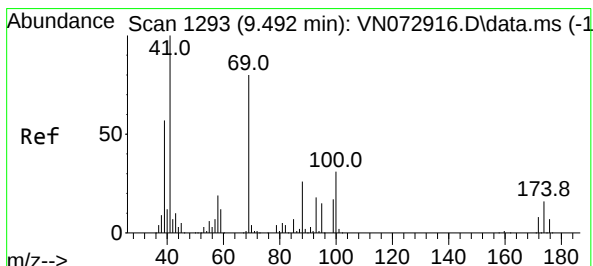
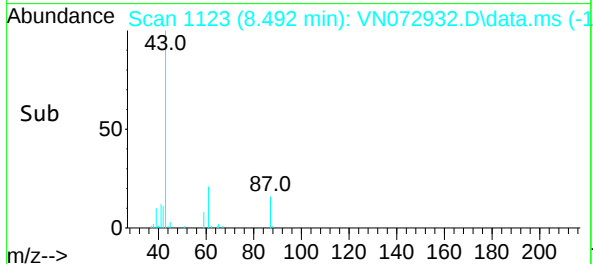
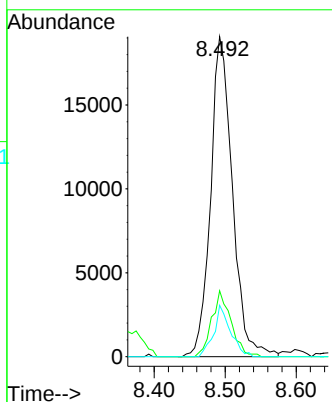
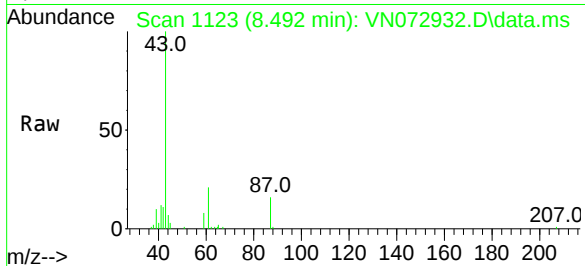




#43
Isopropyl Acetate
Concen: 4.041 ug/l
RT: 8.492 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

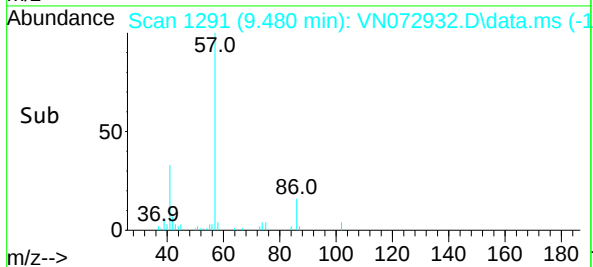
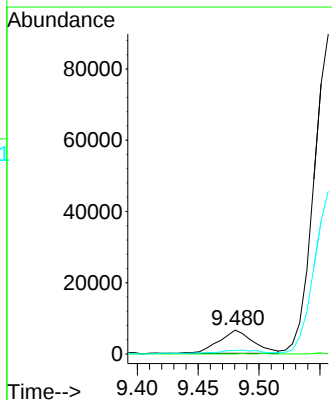
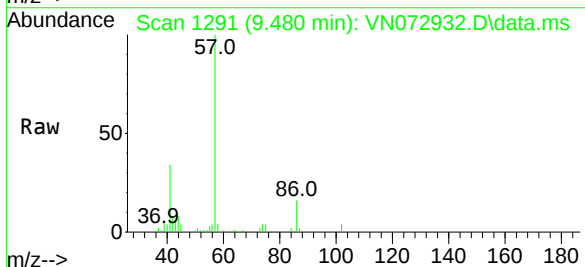
Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

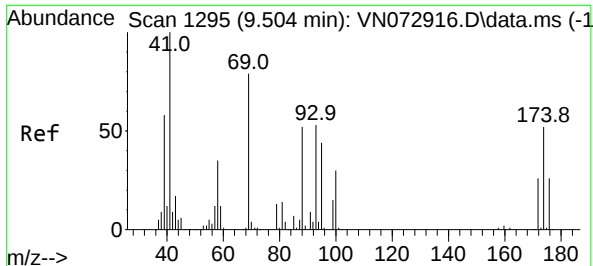
Tgt Ion: 43 Resp: 40687
Ion Ratio Lower Upper
43 100
61 18.2 21.9 32.9#
87 12.2 12.0 18.0



#48
Methyl methacrylate
Concen: 2.737 ug/l
RT: 9.480 min Scan# 1291
Delta R.T. -0.012 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion: 41 Resp: 12583
Ion Ratio Lower Upper
41 100
69 0.4 74.7 112.1#
39 22.9 45.6 68.4#

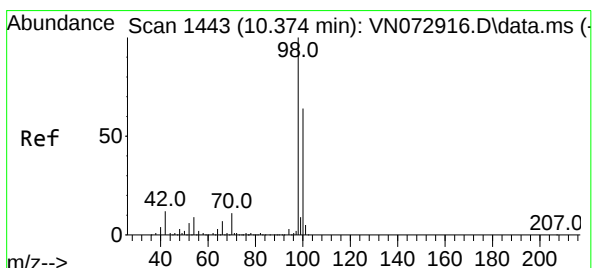
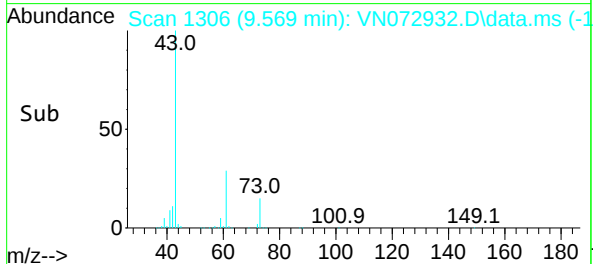
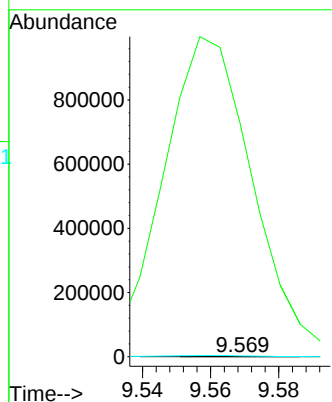
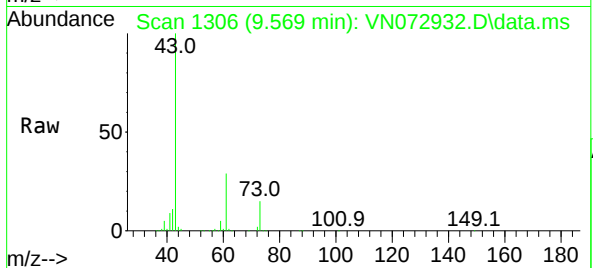




#49
1,4-Dioxane
Concen: 1.460 ug/l
RT: 9.569 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

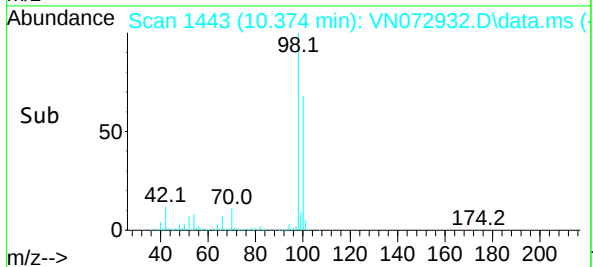
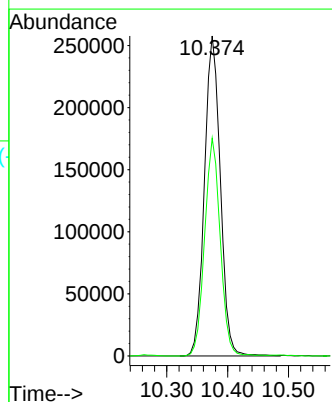
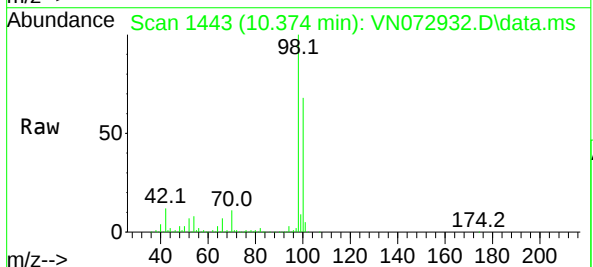
Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

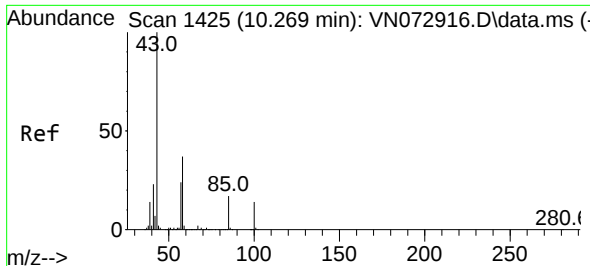
Tgt Ion: 88 Resp: 151
Ion Ratio Lower Upper
88 100
43 1240544.4 20.2 30.4#
58 4751.7 54.2 81.4#



#50
Toluene-d8
Concen: 38.616 ug/l
RT: 10.374 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion: 98 Resp: 467677
Ion Ratio Lower Upper
98 100
100 66.8 52.6 78.8

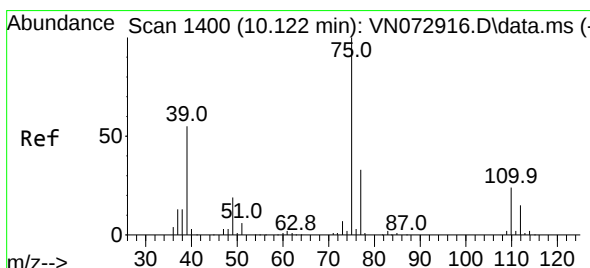
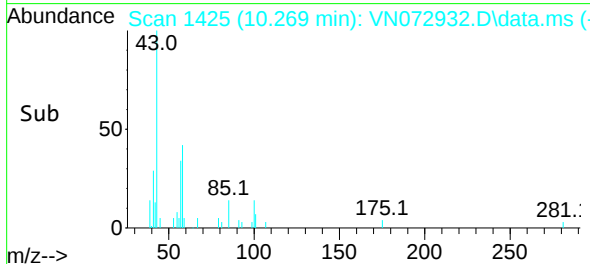
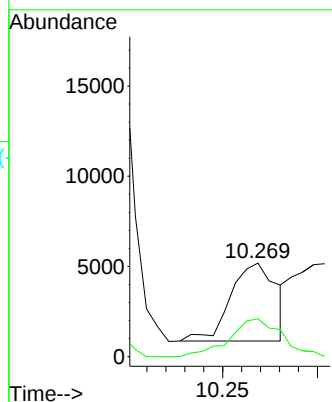
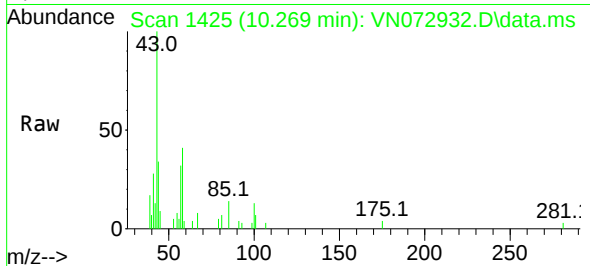




#51
4-Methyl-2-Pentanone
Concen: 1.108 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

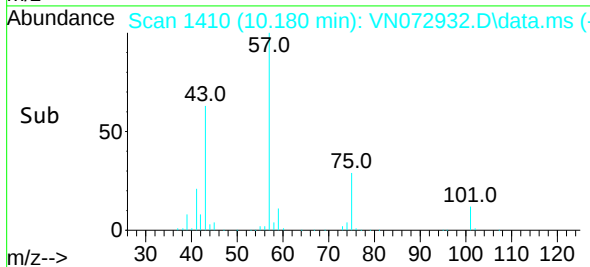
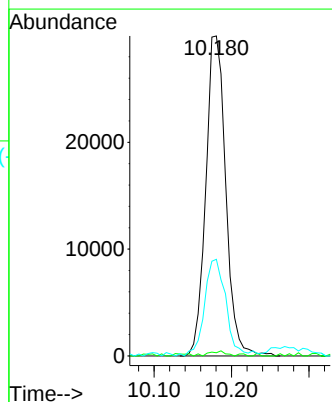
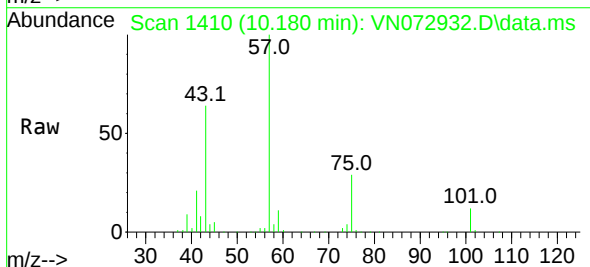
Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

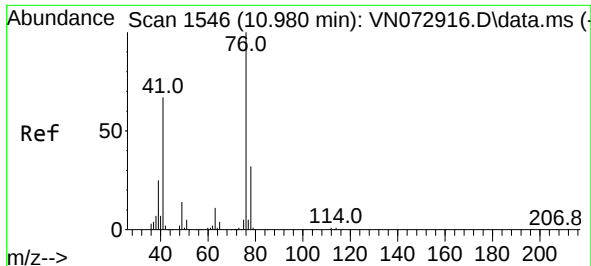
Tgt Ion: 43 Resp: 7273
Ion Ratio Lower Upper
43 100
58 55.4 34.1 51.1#



#54
cis-1,3-Dichloropropene
Concen: 9.607 ug/l
RT: 10.180 min Scan# 1410
Delta R.T. 0.059 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion: 75 Resp: 53652
Ion Ratio Lower Upper
75 100
77 0.4 25.2 37.8#
39 29.5 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 3.391 ug/l

RT: 11.027 min Scan# 1554

Delta R.T. 0.047 min

Lab File: VN072932.D

Acq: 18 Jun 2022 12:06

Instrument :

MSVOA_N

ClientSampleId :

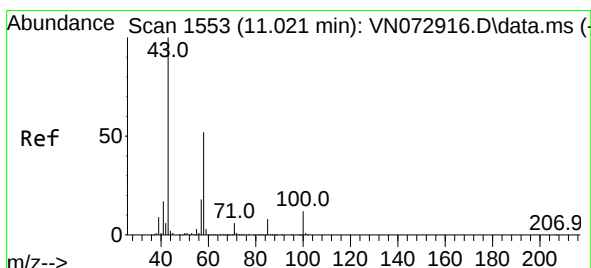
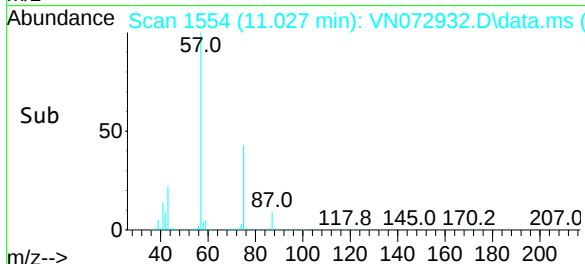
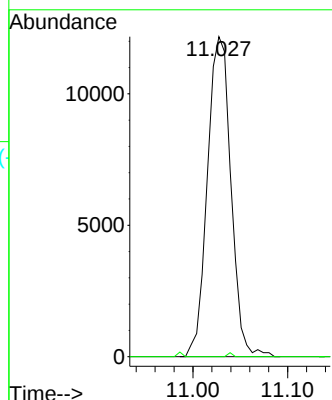
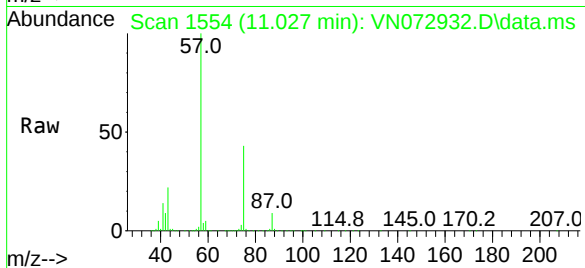
WC-SO-20220609

Tgt Ion: 76 Resp: 20989

Ion Ratio Lower Upper

76 100

78 0.3 26.2 39.2#



#59

2-Hexanone

Concen: 65.593 ug/l

RT: 11.027 min Scan# 1554

Delta R.T. 0.006 min

Lab File: VN072932.D

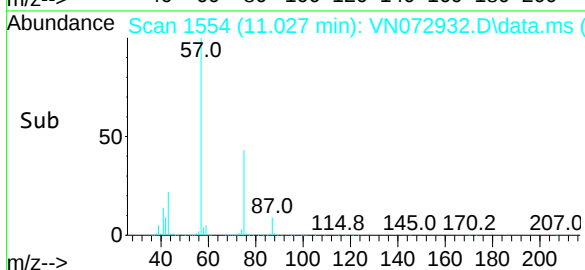
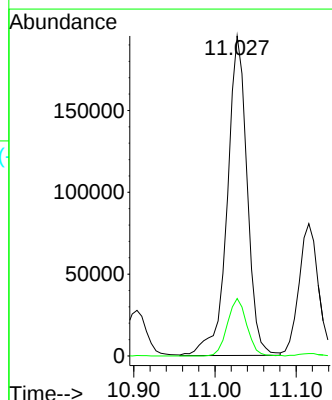
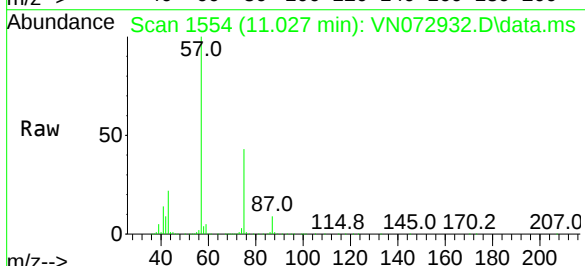
Acq: 18 Jun 2022 12:06

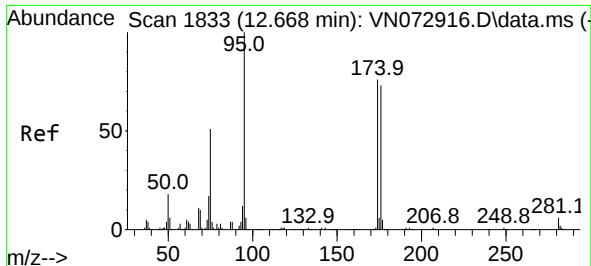
Tgt Ion: 43 Resp: 333124

Ion Ratio Lower Upper

43 100

58 17.6 29.7 89.1#

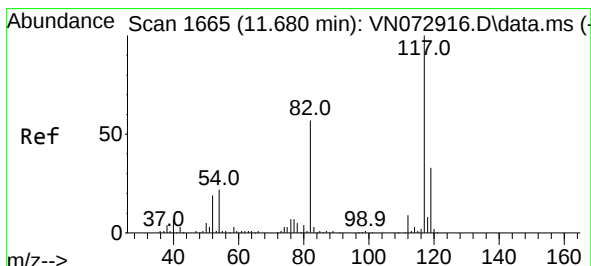
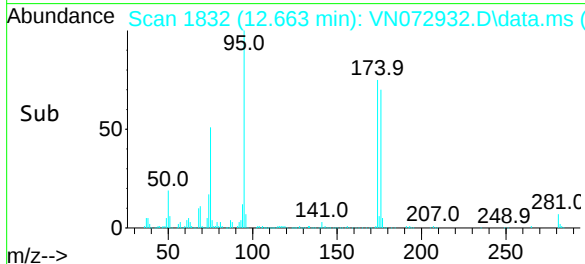
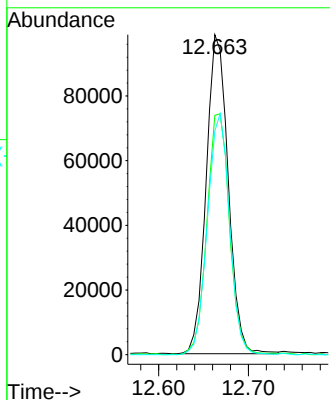
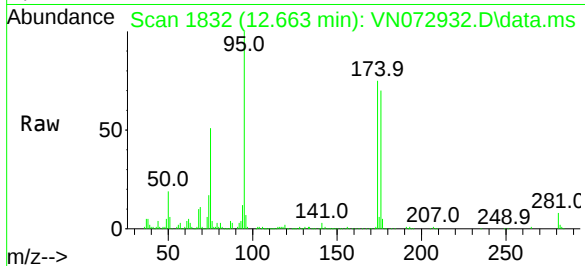




#62
4-Bromofluorobenzene
Concen: 38.554 ug/l
RT: 12.663 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

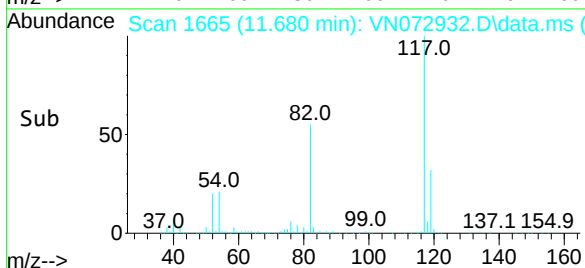
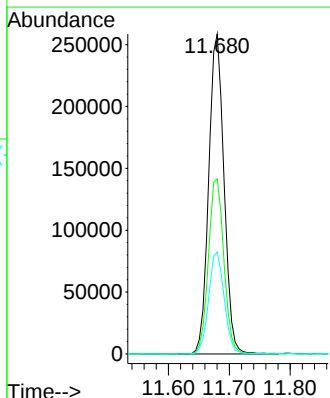
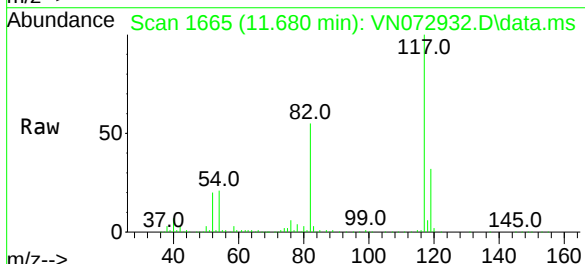
Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

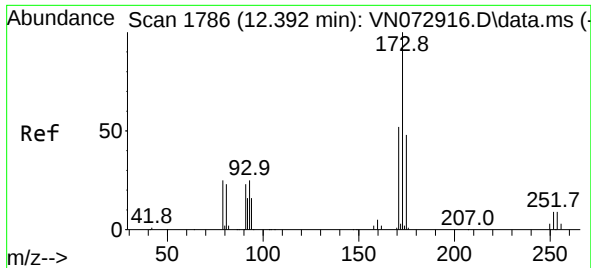
Tgt Ion: 95 Resp: 167898
Ion Ratio Lower Upper
95 100
174 77.6 0.0 167.6
176 75.8 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion: 117 Resp: 451606
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 31.8 25.4 38.0

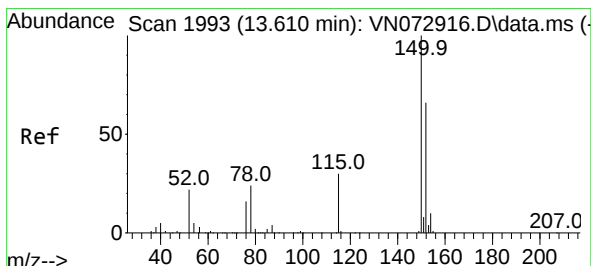
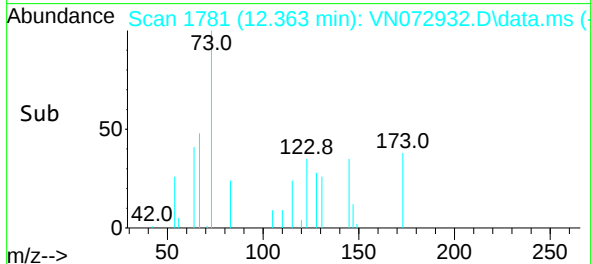
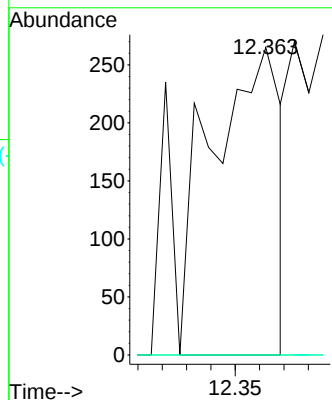
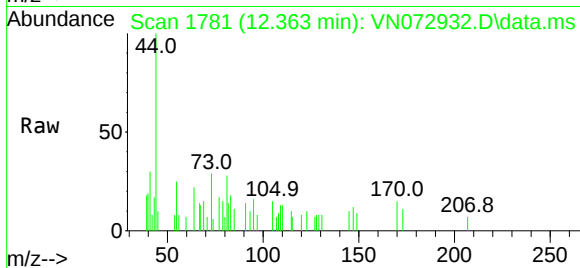




#71
Bromoform
Concen: 0.209 ug/l
RT: 12.363 min Scan# 1786
Delta R.T. -0.029 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

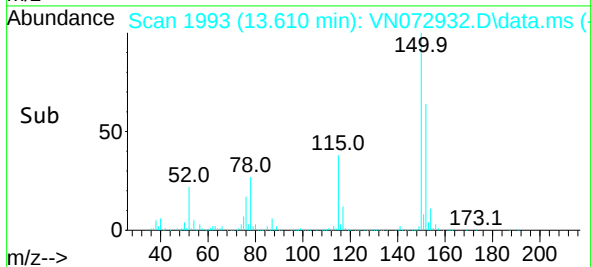
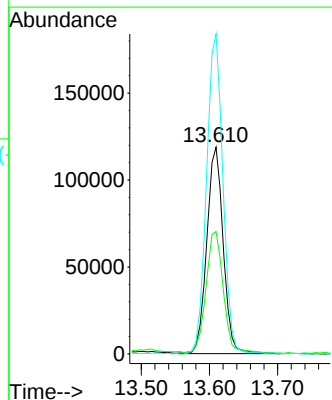
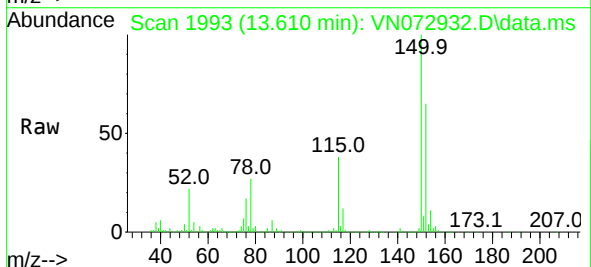
Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

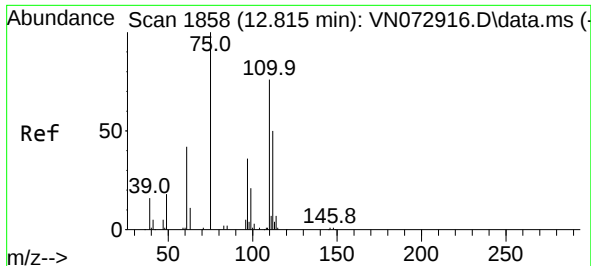
Tgt Ion:173 Resp: 528
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion:152 Resp: 199399
Ion Ratio Lower Upper
152 100
115 62.3 28.9 86.7
150 154.3 0.0 356.2

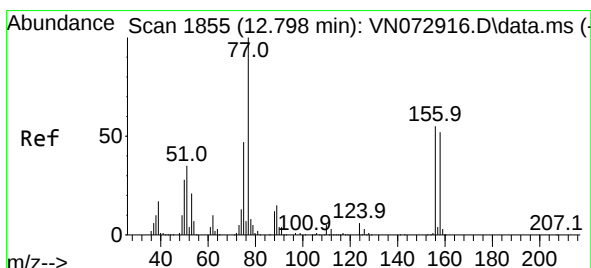
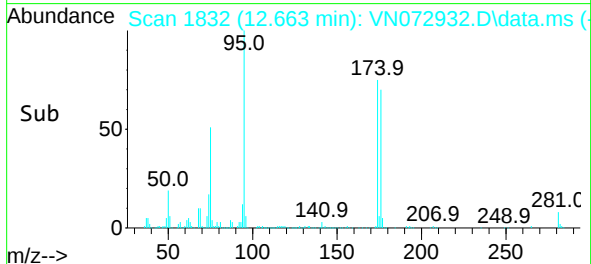
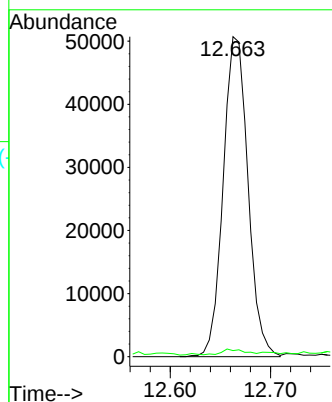
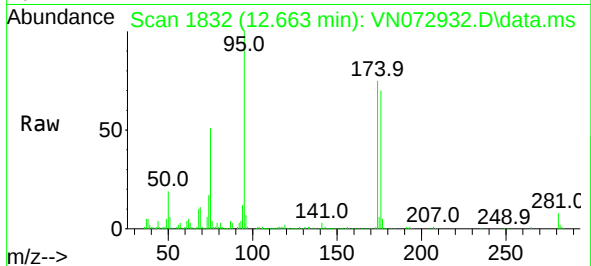




#76
1,2,3-Trichloropropane
Concen: 17.967 ug/l
RT: 12.663 min Scan# 1845
Delta R.T. -0.153 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

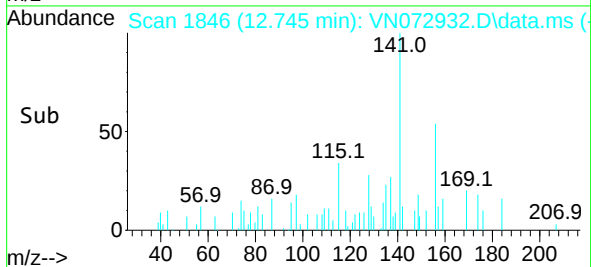
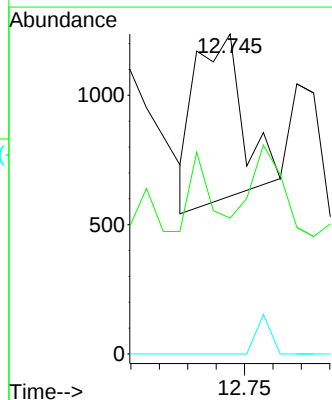
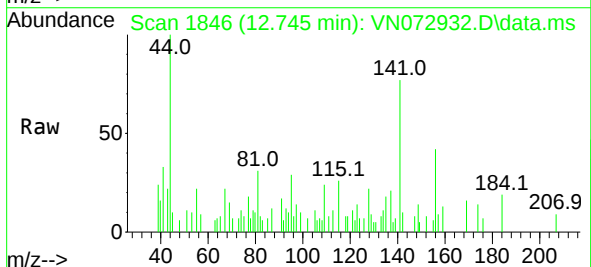
Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

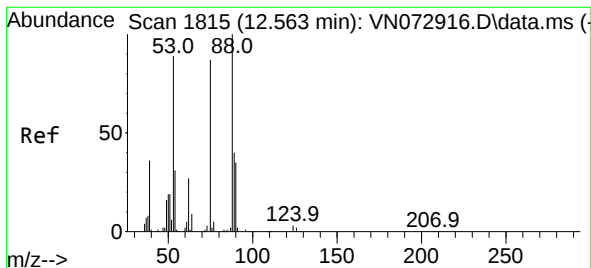
Tgt Ion: 75 Resp: 86860
Ion Ratio Lower Upper
75 100
77 1.6 98.5 295.5#



#77
Bromobenzene
Concen: 0.204 ug/l
RT: 12.745 min Scan# 1846
Delta R.T. -0.053 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion: 156 Resp: 754
Ion Ratio Lower Upper
156 100
77 39.4 100.5 301.5#
158 7.2 48.9 146.6#

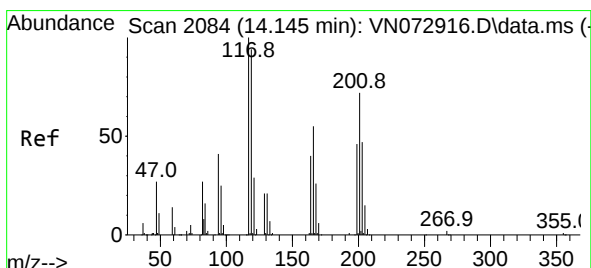
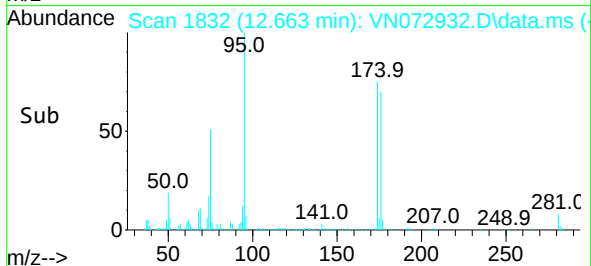
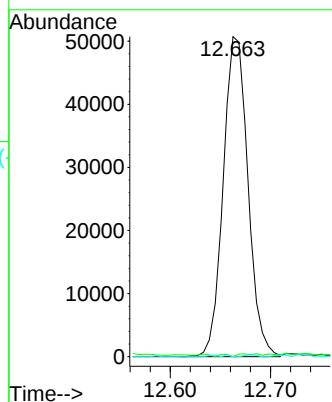
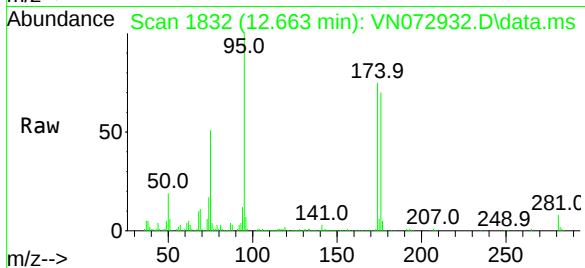




#81
 trans-1,4-Dichloro-2-butene
 Concen: 48.522 ug/l
 RT: 12.663 min Scan# 1815
 Delta R.T. 0.100 min
 Lab File: VN072932.D
 Acq: 18 Jun 2022 12:06

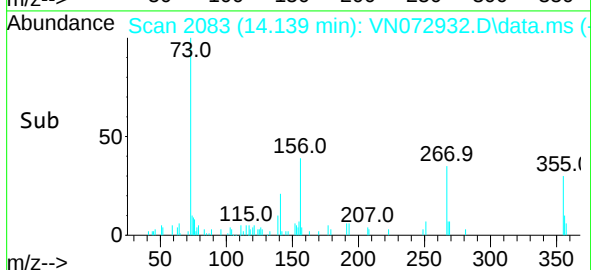
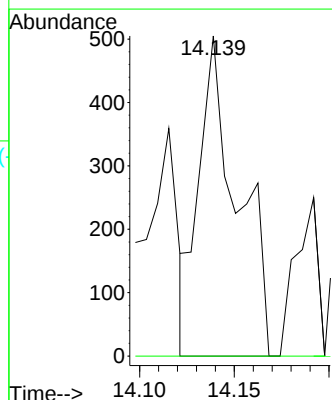
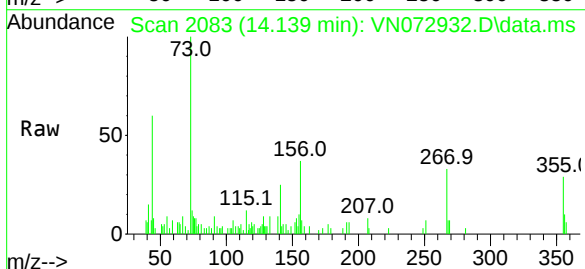
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-SO-20220609

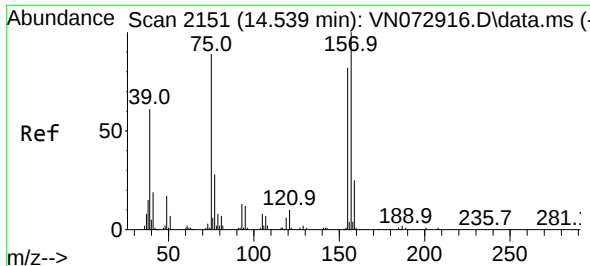
Tgt Ion: 75 Resp: 86860
 Ion Ratio Lower Upper
 75 100
 53 0.5 78.0 117.0#
 89 0.3 37.2 55.8#



#90
 Hexachloroethane
 Concen: 0.302 ug/l
 RT: 14.139 min Scan# 2083
 Delta R.T. -0.006 min
 Lab File: VN072932.D
 Acq: 18 Jun 2022 12:06

Tgt Ion: 117 Resp: 714
 Ion Ratio Lower Upper
 117 100
 201 0.0 40.6 122.0#

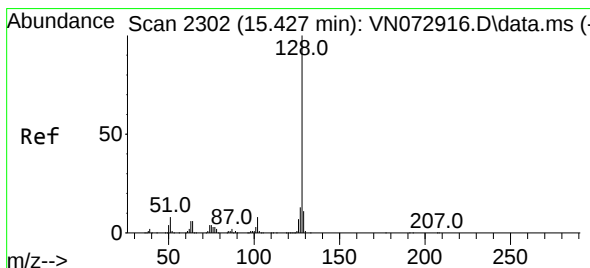
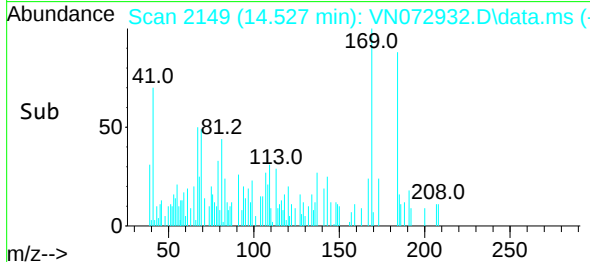
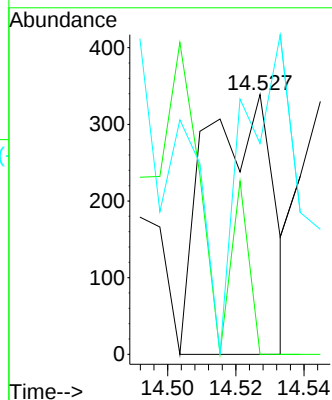
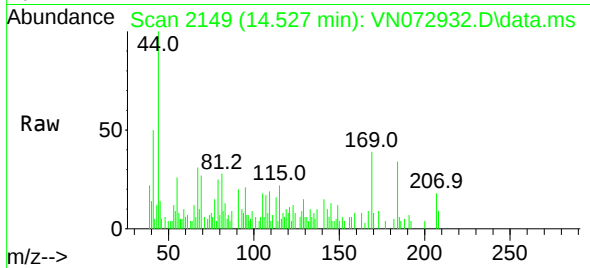




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.252 ug/l
RT: 14.527 min Scan# 2149
Delta R.T. -0.012 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Instrument :
MSVOA_N
ClientSampleId :
WC-SO-20220609

Tgt Ion: 75 Resp: 469
Ion Ratio Lower Upper
75 100
155 0.0 44.9 134.5#
157 103.4 59.0 176.8



#95
Naphthalene
Concen: 0.548 ug/l
RT: 15.427 min Scan# 2302
Delta R.T. 0.000 min
Lab File: VN072932.D
Acq: 18 Jun 2022 12:06

Tgt Ion: 128 Resp: 8436
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 9.7 8.6 13.0

