

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100721\
 Data File : VN068842.D
 Acq On : 7 Oct 2021 15:32
 Operator : JC/MD
 Sample : M4087-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-20211005-ROCK

Quant Time: Oct 08 05:59:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100621W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 06 14:41:09 2021
 Response via : Initial Calibration

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

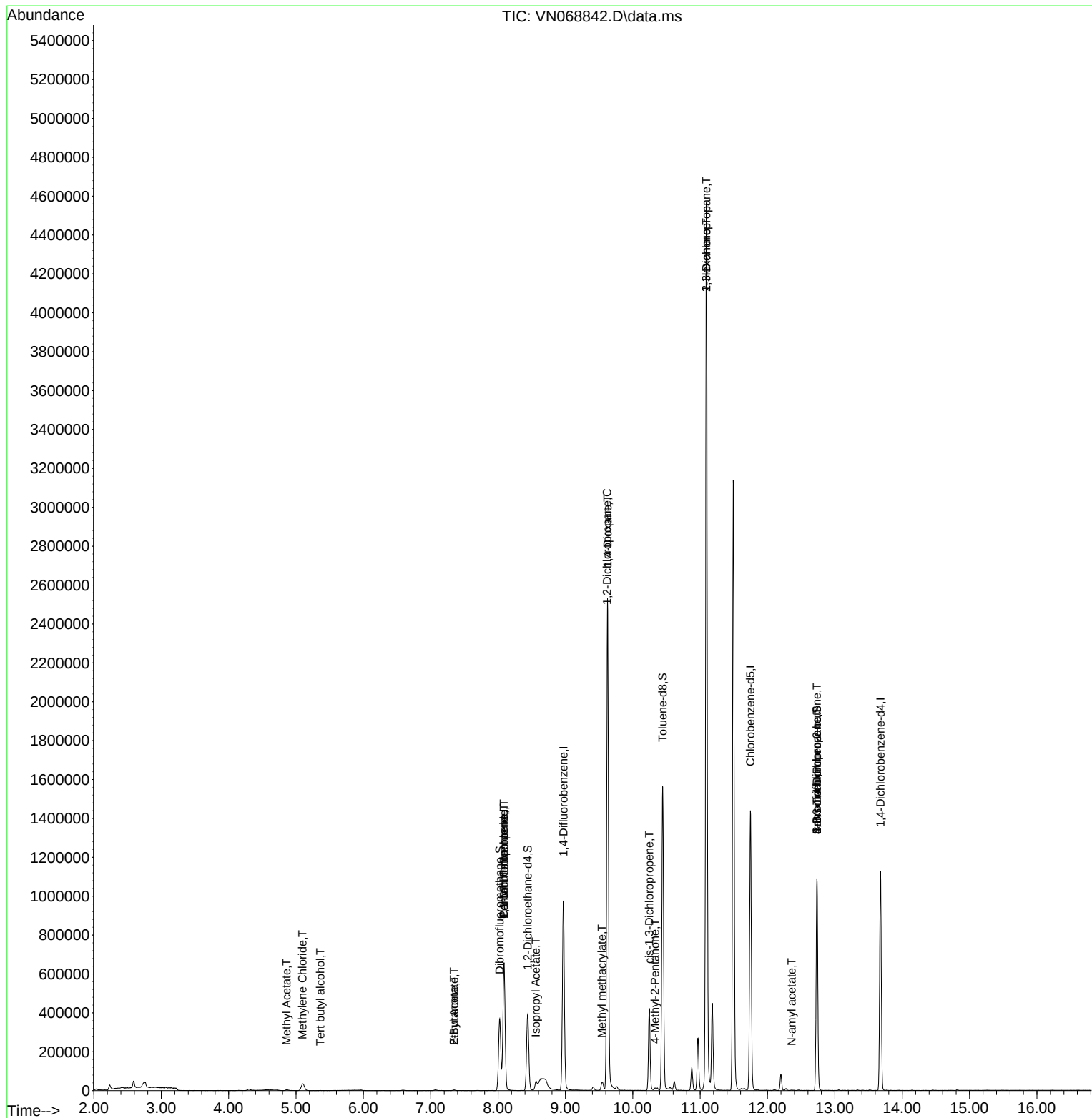
Internal Standards						
1) Pentafluorobenzene	8.088	168	471597	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	837113	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	812748	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	282170	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	330212	47.646	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.300%
35) Dibromofluoromethane	8.024	113	257450	46.819	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.640%
50) Toluene-d8	10.443	98	1072554	50.016	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.040%
62) 4-Bromofluorobenzene	12.734	95	343309	43.089	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	86.180%
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	1295	Below Cal	#	85
6) Chloroethane	3.105	64	570	Below Cal	#	50
7) Trichlorofluoromethane	3.103	101	26	Below Cal	#	18
11) Tert butyl alcohol	5.361	59	414	0.503	ug/l	# 71
16) Acetone	4.296	43	7785	Below Cal		98
17) Carbon Disulfide	4.540	76	26	Below Cal	#	74
18) Methyl Acetate	4.859	43	9315	1.359	ug/l	# 60
20) Methylene Chloride	5.095	84	28338	3.390	ug/l	85
25) 2-Butanone	7.345	43	6493	2.052	ug/l	# 89
31) Cyclohexane	8.086	56	13356	Below Cal	#	47
36) 1,1-Dichloropropene	8.088	75	41514	6.273	ug/l	# 52
37) Ethyl Acetate	7.345	43	6493	1.028	ug/l	# 69
38) Carbon Tetrachloride	8.088	117	52076	6.534	ug/l	# 17
43) Isopropyl Acetate	8.560	43	60613	5.278	ug/l	# 83
45) 1,2-Dichloropropane	9.620	63	2993	0.558	ug/l	# 44
48) Methyl methacrylate	9.542	41	11248	2.293	ug/l	# 12
49) 1,4-Dioxane	9.628	88	506	4.739	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.330	43	8861	1.212	ug/l	94
54) cis-1,3-Dichloropropene	10.245	75	72791	8.270	ug/l	# 64
57) 1,3-Dichloropropane	11.092	76	47192	5.072	ug/l	# 43
59) 2-Hexanone	11.092	43	687452	130.353	ug/l	# 55
71) Bromoform	12.734	173	1003	0.221	ug/l	# 1
74) N-amyl acetate	12.358	43	1580	0.209	ug/l	# 49
76) 1,2,3-Trichloropropane	12.734	75	203295	36.549	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.734	75	203295	105.882	ug/l	# 6
96) 1,2,3-Trichlorobenzene	15.705	180	105	Below Cal	#	29

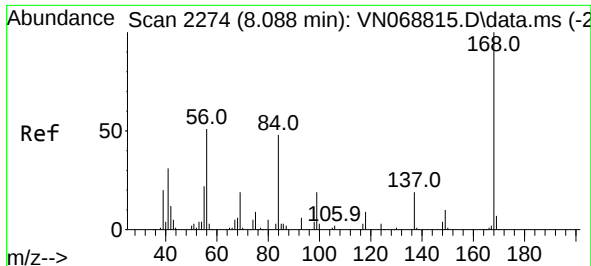
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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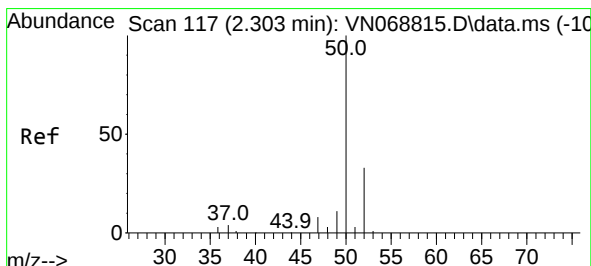
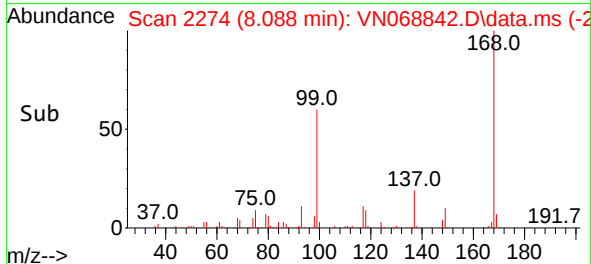
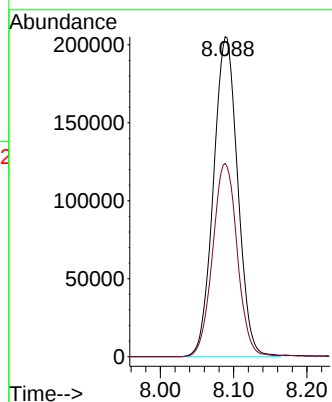
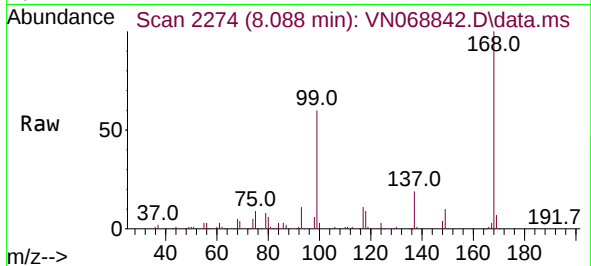




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

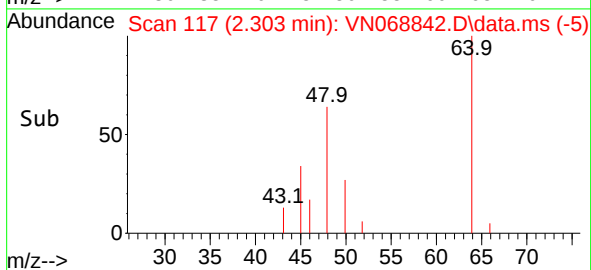
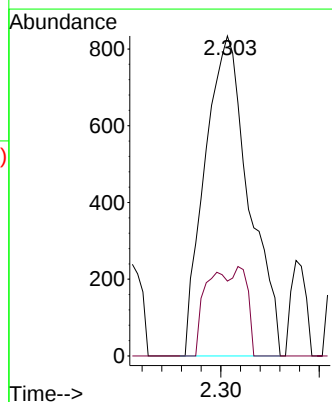
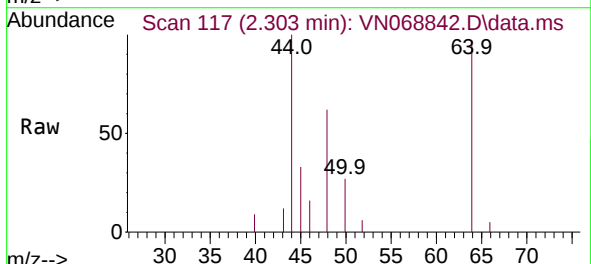
Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

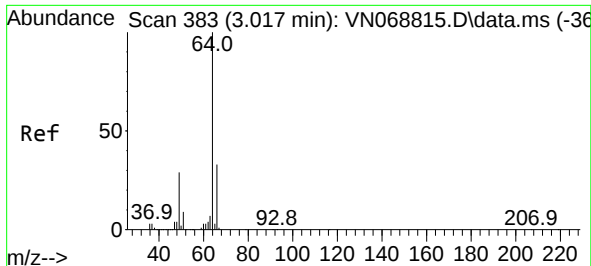
Tgt Ion:168 Resp: 471597
Ion Ratio Lower Upper
168 100
99 60.4 62.9 94.3#



#3
Chloromethane
Concen: Below Cal
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 50 Resp: 1295
Ion Ratio Lower Upper
50 100
52 23.4 25.6 38.4#

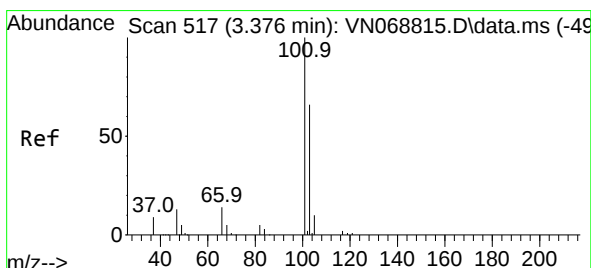
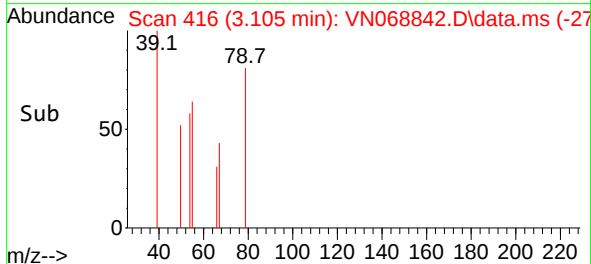
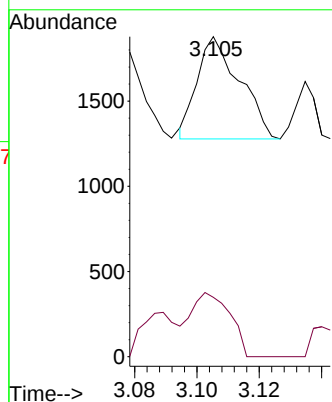
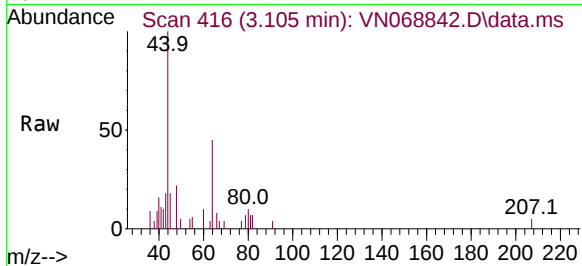




#6
Chloroethane
Concen: Below Cal
RT: 3.105 min Scan# 416
Delta R.T. 0.088 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

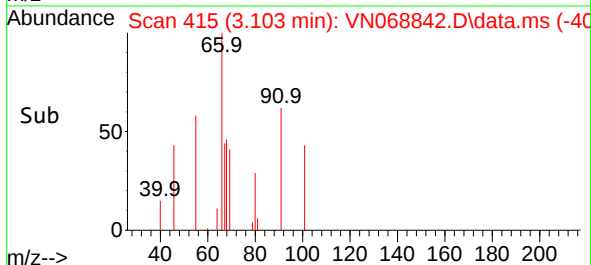
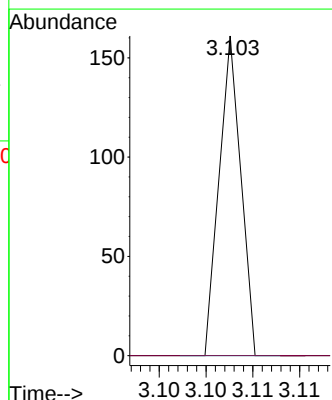
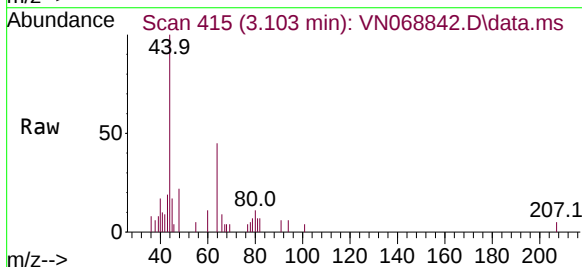
Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

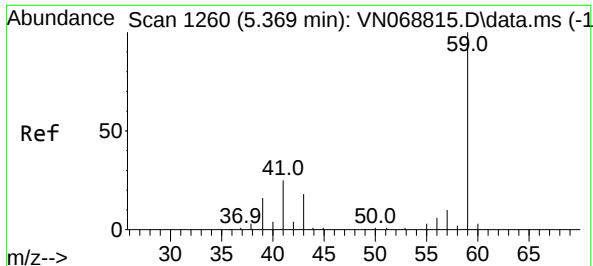
Tgt Ion: 64 Resp: 570
Ion Ratio Lower Upper
64 100
66 58.2 24.7 37.1#



#7
Trichlorofluoromethane
Concen: Below Cal
RT: 3.103 min Scan# 415
Delta R.T. -0.273 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion:101 Resp: 26
Ion Ratio Lower Upper
101 100
103 0.0 51.2 76.8#



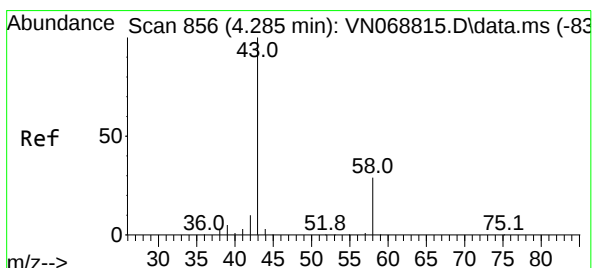
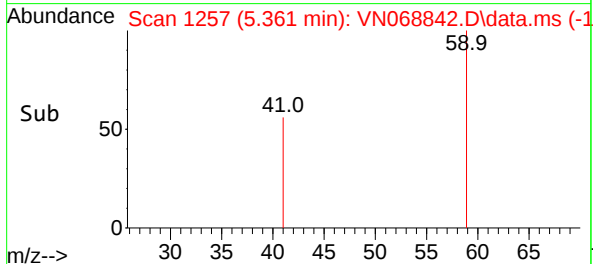
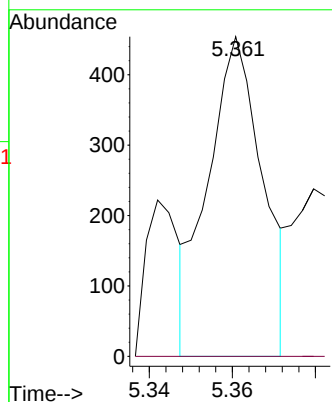
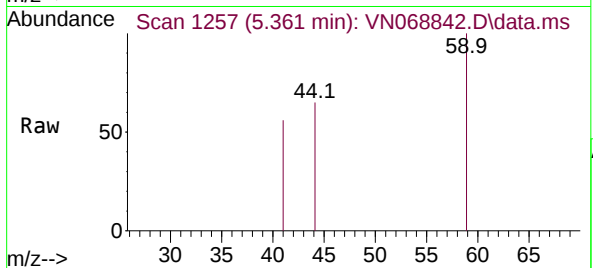


#11

Tert butyl alcohol
Concen: 0.503 ug/l
RT: 5.361 min Scan# 1257
Delta R.T. -0.008 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

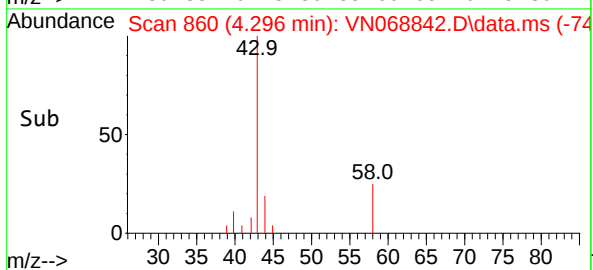
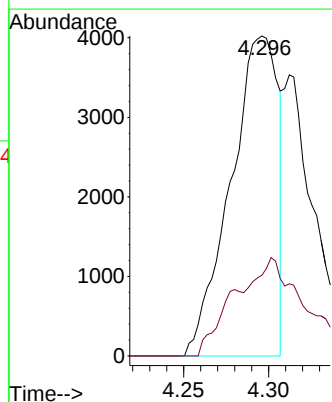
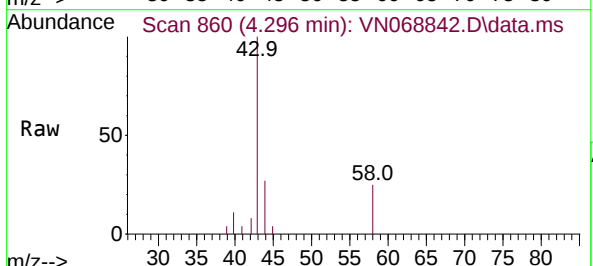
Tgt Ion: 59 Resp: 414
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

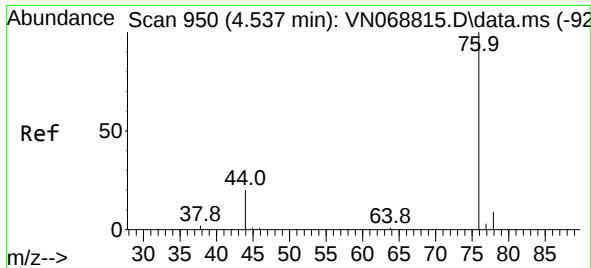


#16

Acetone
Concen: Below Cal
RT: 4.296 min Scan# 860
Delta R.T. 0.011 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 43 Resp: 7785
Ion Ratio Lower Upper
43 100
58 25.3 21.2 31.8

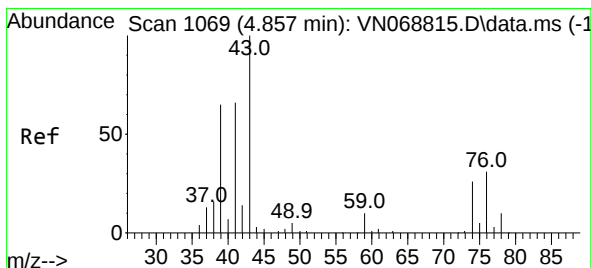
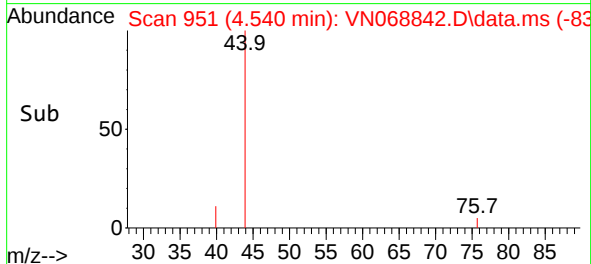
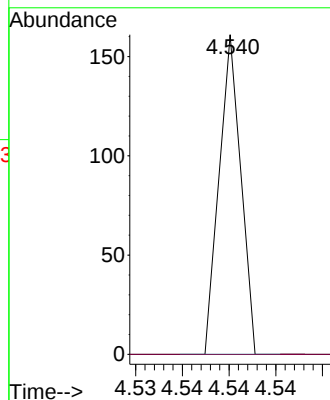
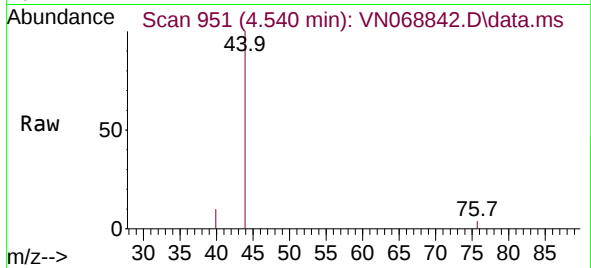




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.540 min Scan# 951
Delta R.T. 0.003 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

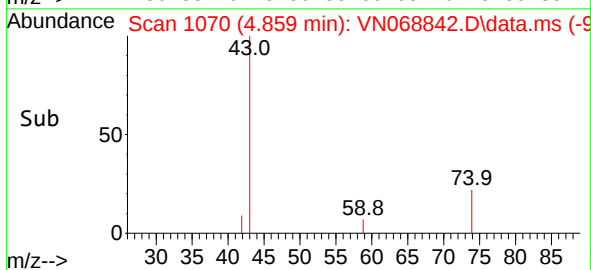
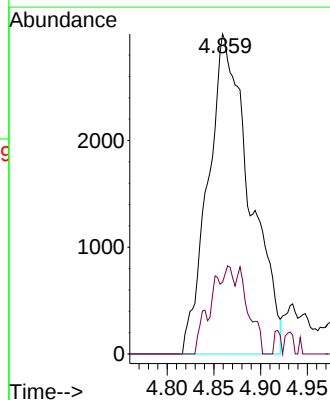
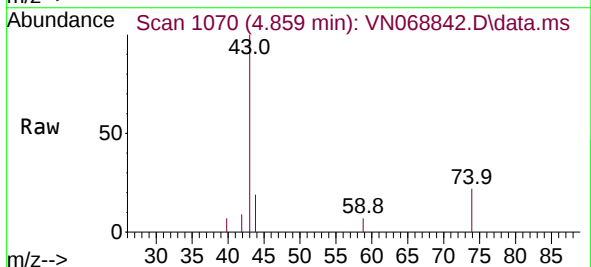
Instrument :
MSVOA_N
ClientSampleId :
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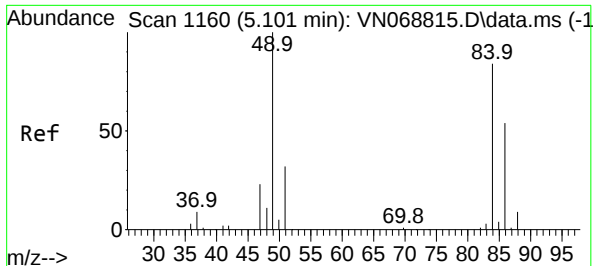
Tgt Ion: 76 Resp: 26
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methyl Acetate
Concen: 1.359 ug/l
RT: 4.859 min Scan# 1070
Delta R.T. 0.002 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 43 Resp: 9315
Ion Ratio Lower Upper
43 100
74 2.5 17.4 26.0#



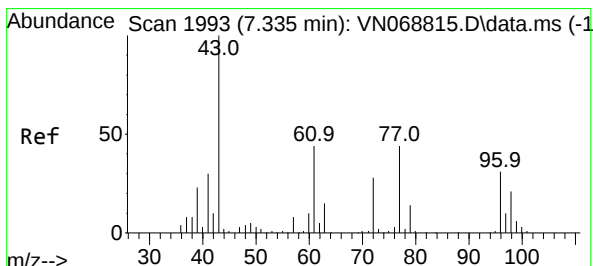
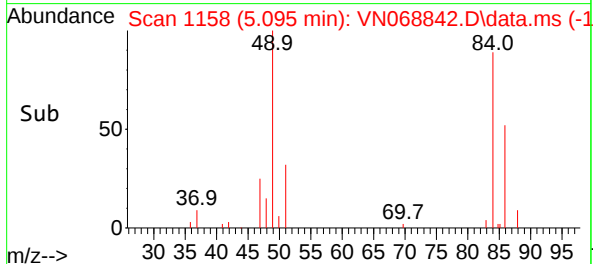
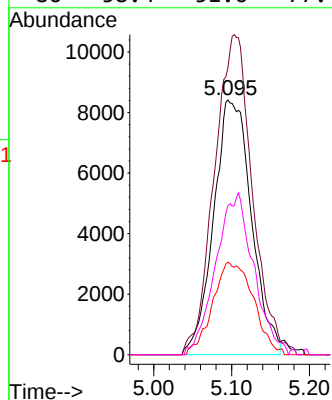
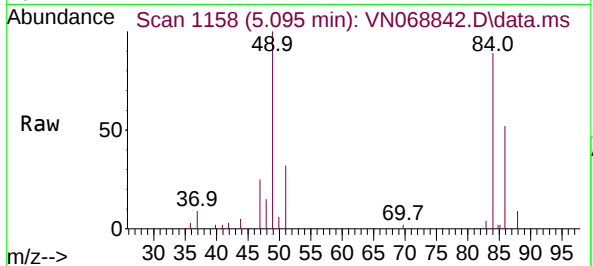


#20
Methylene Chloride
Concen: 3.390 ug/l
RT: 5.095 min Scan# 1158
Delta R.T. -0.006 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Instrument :
MSVOA_N
ClientSampleId :
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Tgt Ion: 84 Resp: 28338

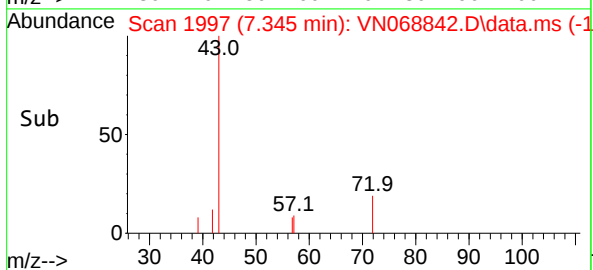
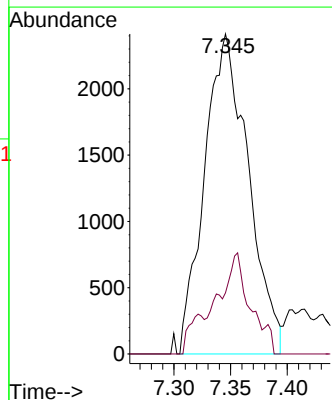
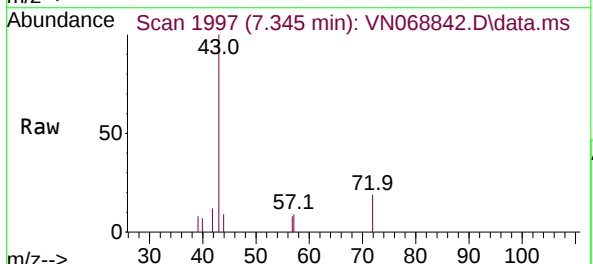
Ion	Ratio	Lower	Upper
84	100		
49	112.5	110.9	166.3
51	36.3	32.6	49.0
86	58.4	51.6	77.4

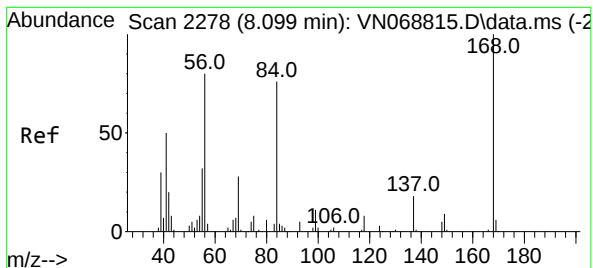


#25
2-Butanone
Concen: 2.052 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. 0.010 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 43 Resp: 6493

Ion	Ratio	Lower	Upper
43	100		
72	19.1	19.7	29.5#

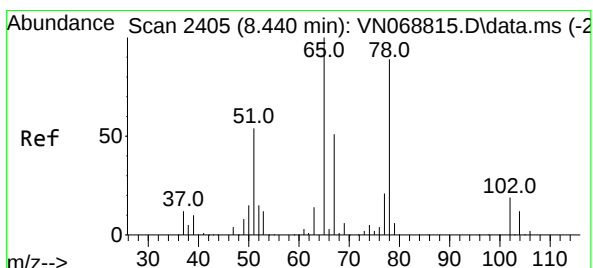
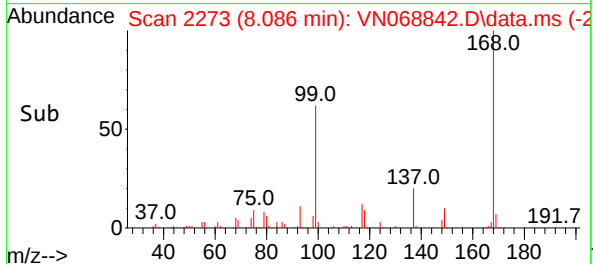
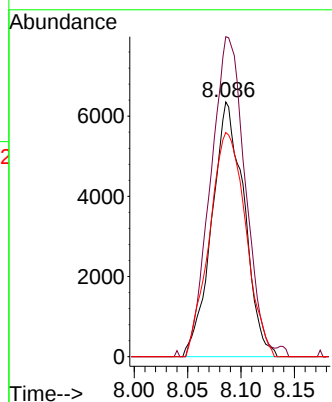
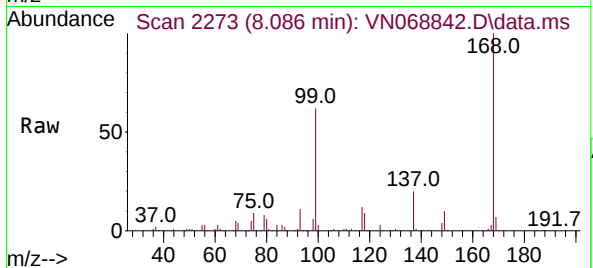




#31
Cyclohexane
Concen: Below Cal
RT: 8.086 min Scan# 2273
Delta R.T. -0.013 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

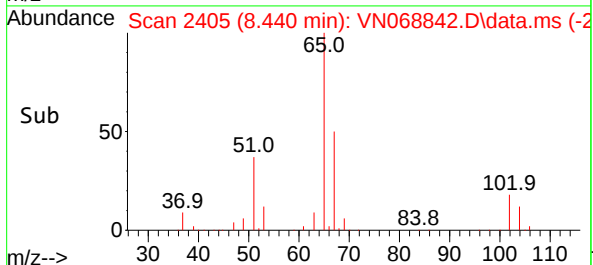
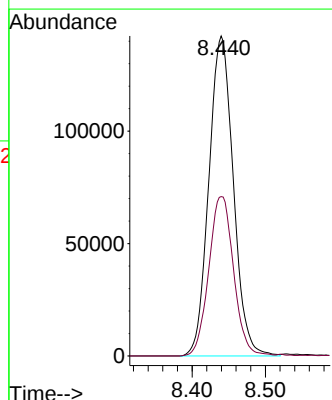
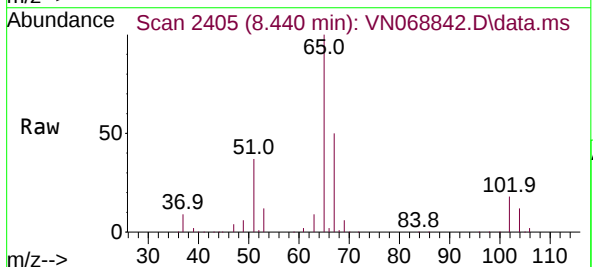
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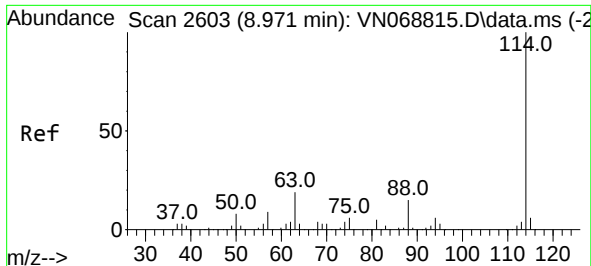
Tgt Ion: 56 Resp: 13356
Ion Ratio Lower Upper
56 100
69 125.6 27.3 40.9#
84 88.0 64.9 97.3



#33
1,2-Dichloroethane-d4
Concen: 47.646 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 65 Resp: 330212
Ion Ratio Lower Upper
65 100
67 50.5 0.0 98.6

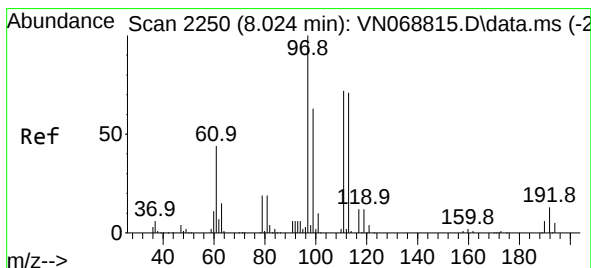
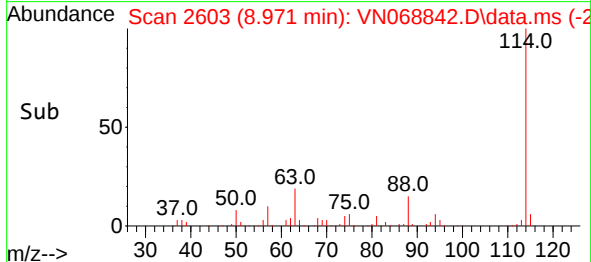
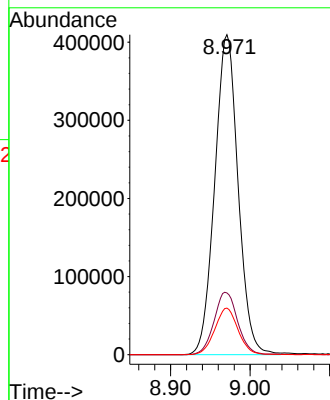
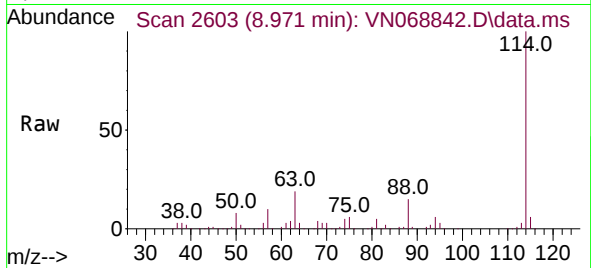




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. -0.000 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

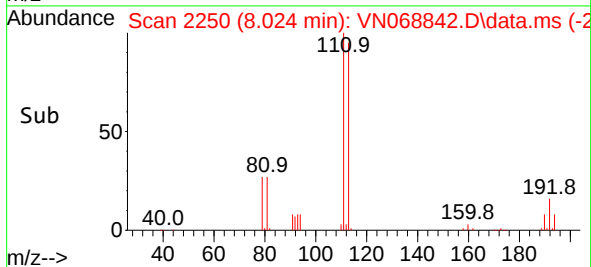
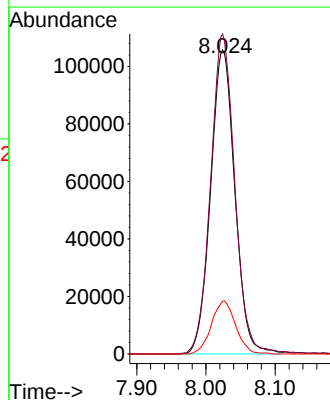
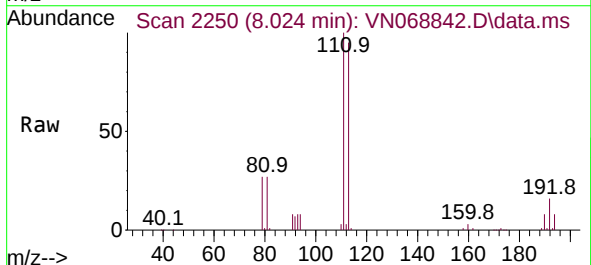
Instrument :
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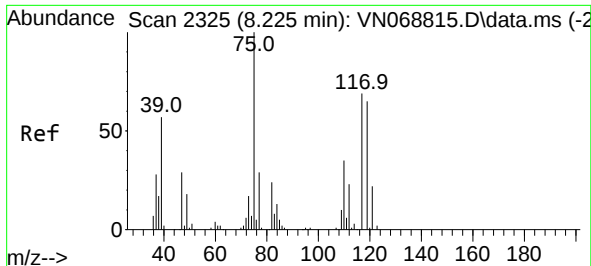
Tgt Ion:114 Resp: 837113
Ion Ratio Lower Upper
114 100
63 19.3 0.0 49.0
88 14.6 0.0 36.6



#35
Dibromofluoromethane
Concen: 46.819 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. -0.000 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion:113 Resp: 257450
Ion Ratio Lower Upper
113 100
111 105.0 83.8 125.8
192 17.3 13.4 20.0

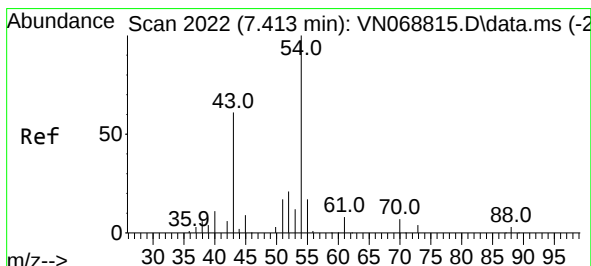
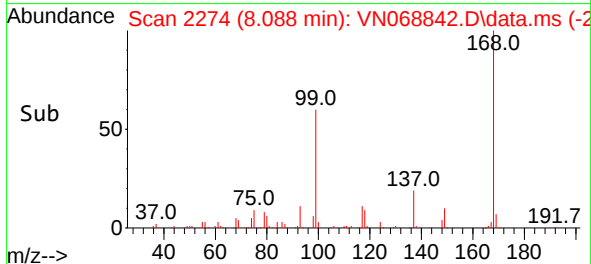
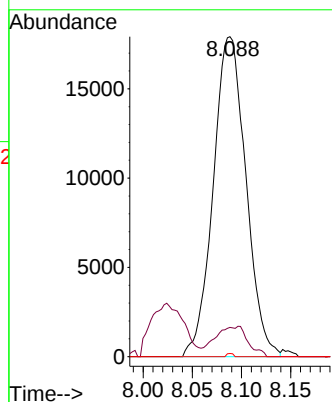
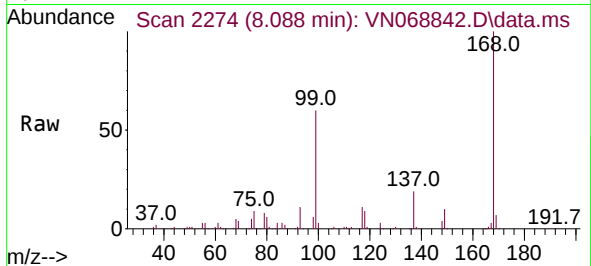




#36
 1,1-Dichloropropene
 Concen: 6.273 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.137 min
 Lab File: VN068842.D
 Acq: 7 Oct 2021 15:32

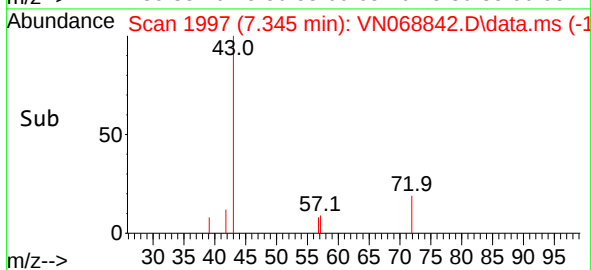
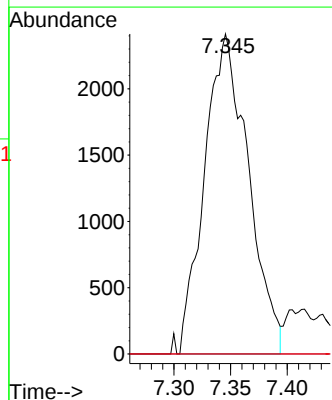
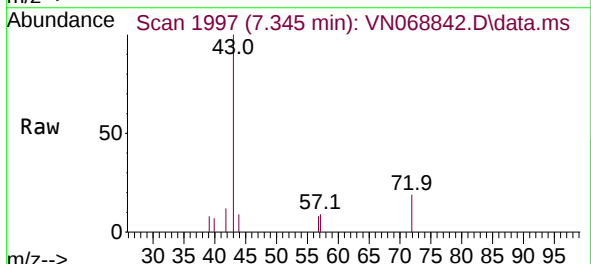
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-20211005-ROCK

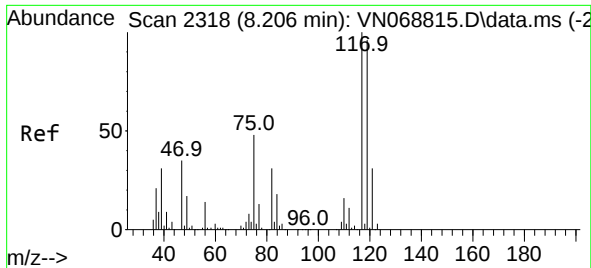
Tgt Ion: 75 Resp: 41514
 Ion Ratio Lower Upper
 75 100
 110 9.5 15.7 47.0#
 77 0.2 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 1.028 ug/l
 RT: 7.345 min Scan# 1997
 Delta R.T. -0.068 min
 Lab File: VN068842.D
 Acq: 7 Oct 2021 15:32

Tgt Ion: 43 Resp: 6493
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 16.0#
 70 0.0 8.1 12.1#

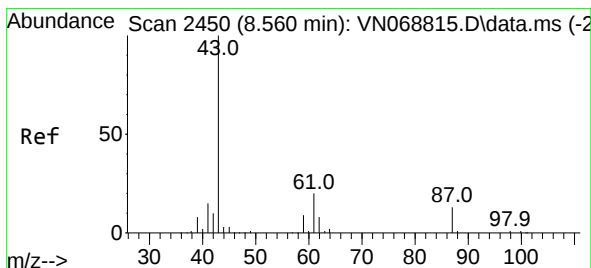
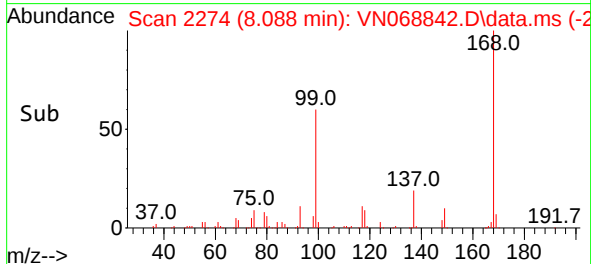
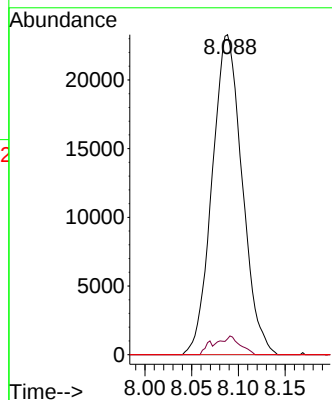
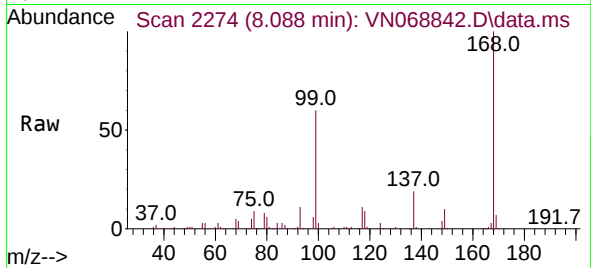




#38
Carbon Tetrachloride
Concen: 6.534 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

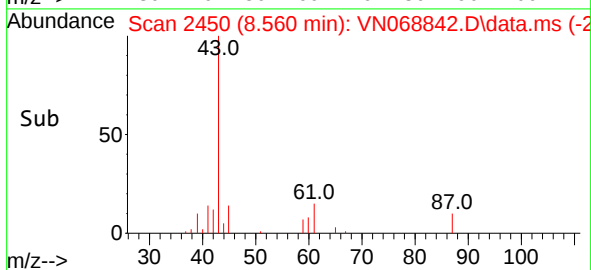
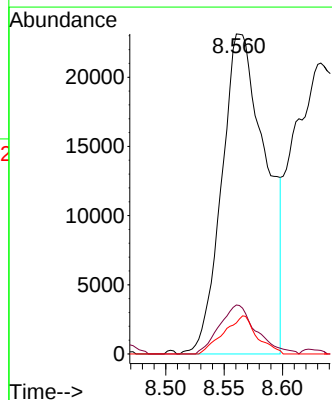
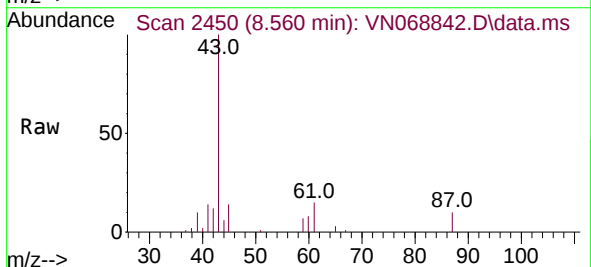
Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

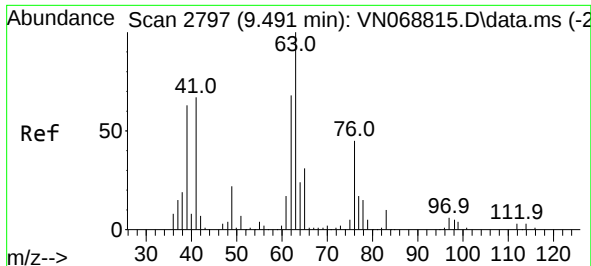
Tgt Ion:117 Resp: 52076
Ion Ratio Lower Upper
117 100
119 5.0 75.4 113.2#
121 0.0 23.5 35.3#



#43
Isopropyl Acetate
Concen: 5.278 ug/l
RT: 8.560 min Scan# 2450
Delta R.T. 0.000 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 43 Resp: 60613
Ion Ratio Lower Upper
43 100
61 12.8 19.0 28.4#
87 8.9 9.5 14.3#



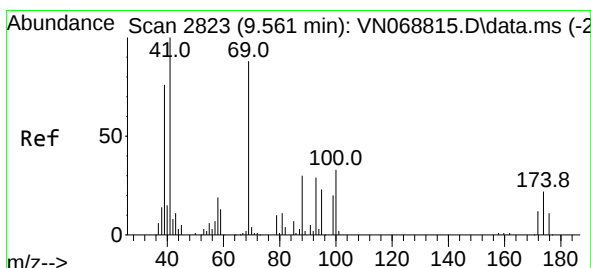
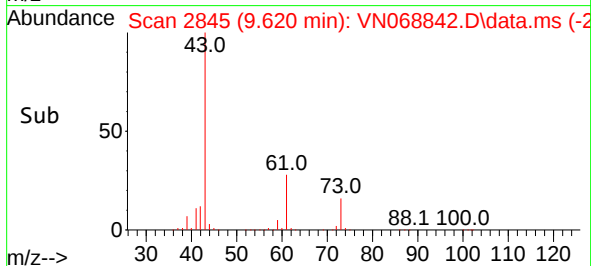
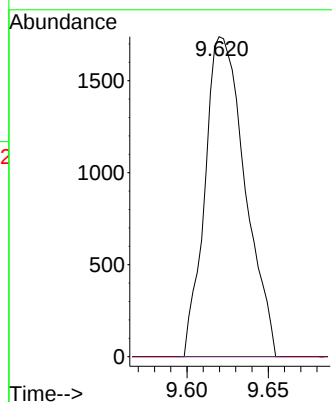
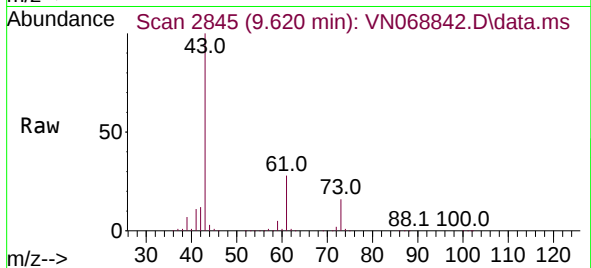


#45

1,2-Dichloropropane
Concen: 0.558 ug/l
RT: 9.620 min Scan# 2845
Delta R.T. 0.129 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

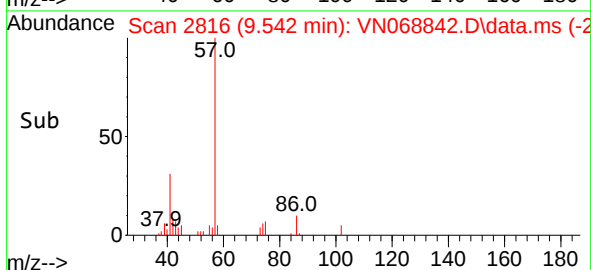
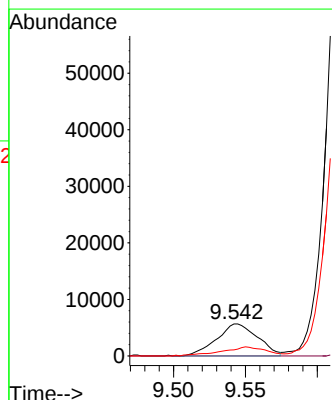
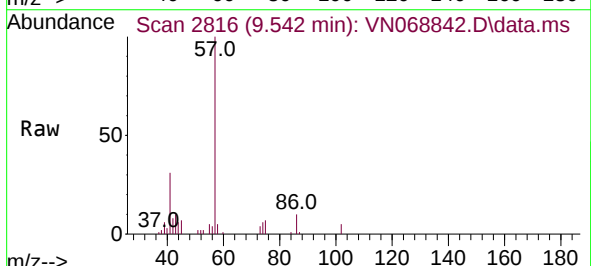
Tgt Ion: 63 Resp: 2993
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#

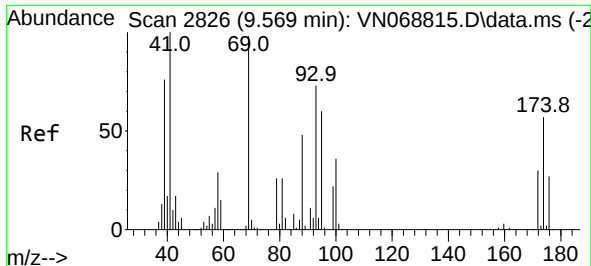


#48

Methyl methacrylate
Concen: 2.293 ug/l
RT: 9.542 min Scan# 2816
Delta R.T. -0.019 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 41 Resp: 11248
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#





#49

1,4-Dioxane

Concen: 4.739 ug/l

RT: 9.628 min Scan# 2848

Delta R.T. 0.059 min

Lab File: VN068842.D

Acq: 7 Oct 2021 15:32

Tgt Ion: 88 Resp: 506

Ion Ratio Lower Upper

88 100

43 480096.0 28.8 43.2#

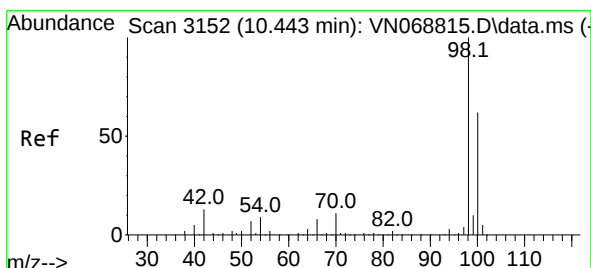
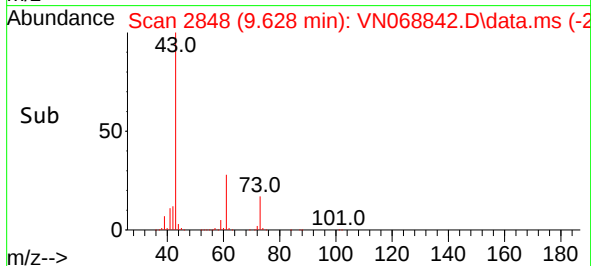
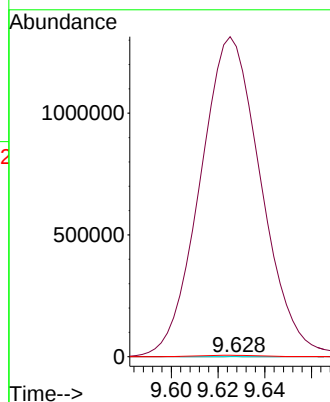
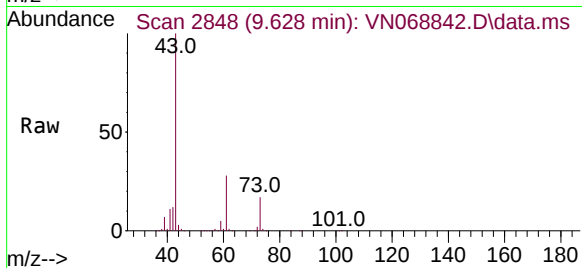
58 2277.5 60.4 90.6#

Instrument :

MSVOA_N

ClientSampleId :

WC-20211005-ROCK



#50

Toluene-d8

Concen: 50.016 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN068842.D

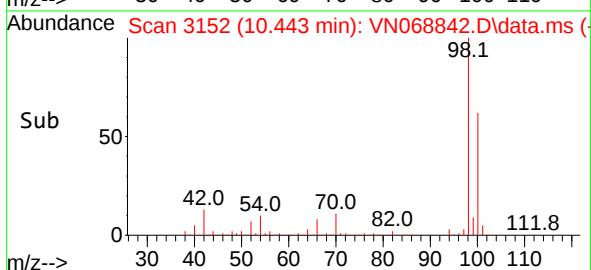
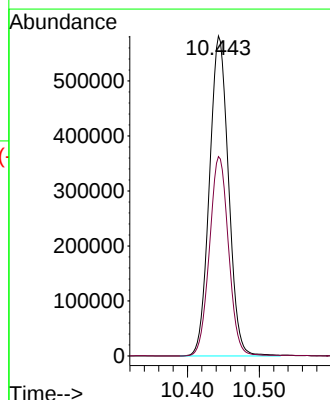
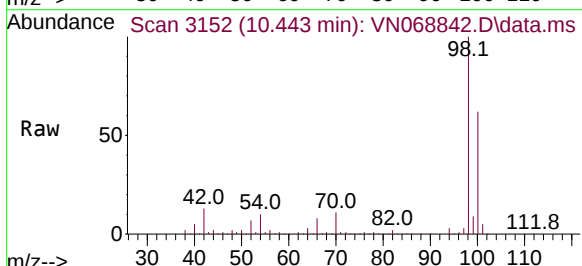
Acq: 7 Oct 2021 15:32

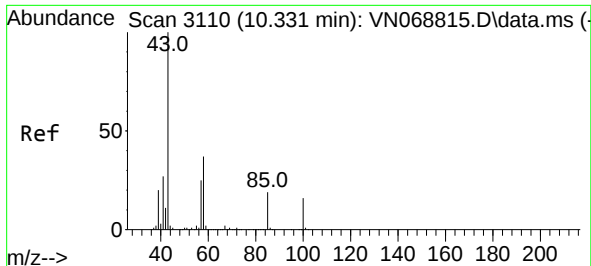
Tgt Ion: 98 Resp: 1072554

Ion Ratio Lower Upper

98 100

100 62.2 51.7 77.5

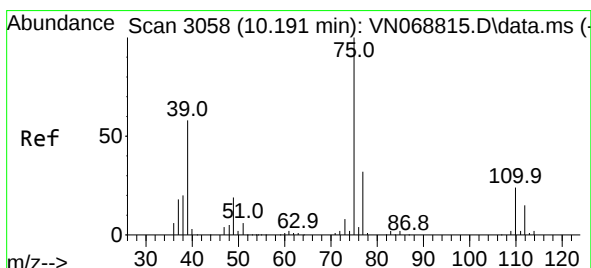
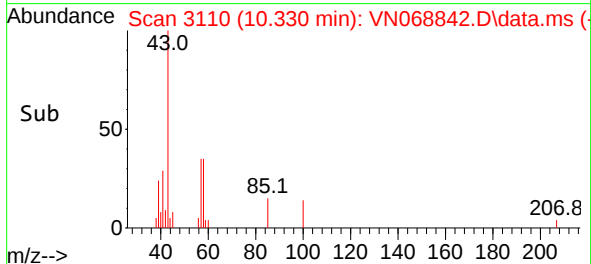
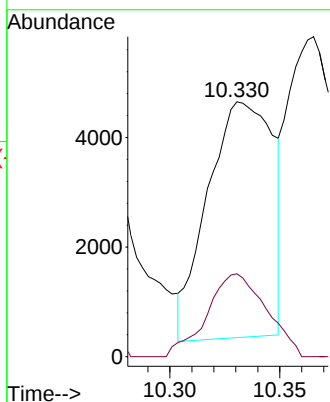
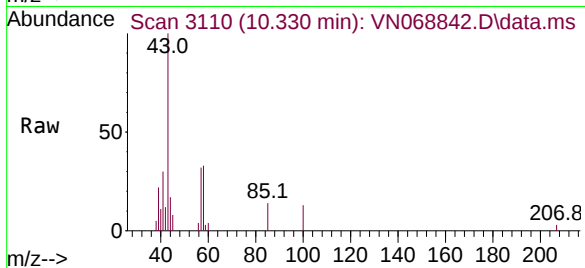




#51
4-Methyl-2-Pentanone
Concen: 1.212 ug/l
RT: 10.330 min Scan# 3110
Delta R.T. -0.001 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

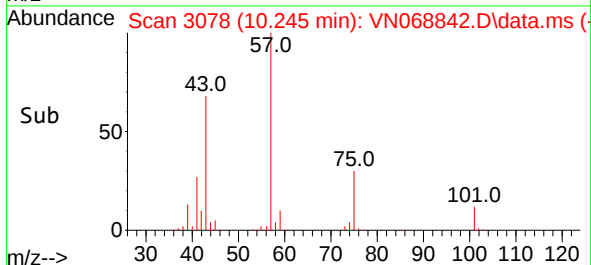
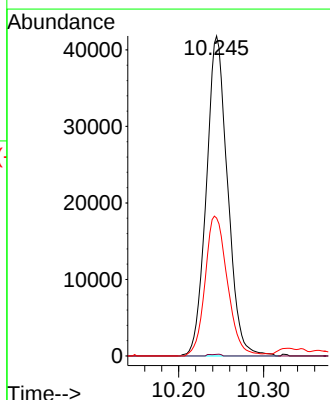
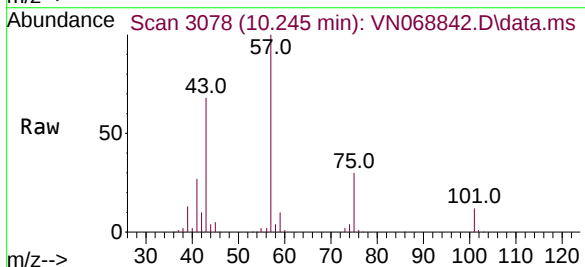
Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

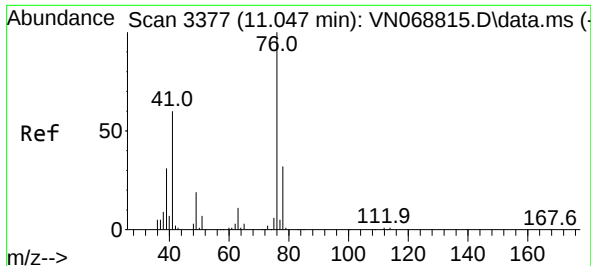
Tgt Ion: 43 Resp: 8861
Ion Ratio Lower Upper
43 100
58 32.0 28.6 43.0



#54
cis-1,3-Dichloropropene
Concen: 8.270 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 75 Resp: 72791
Ion Ratio Lower Upper
75 100
77 0.5 24.6 37.0#
39 43.1 50.7 76.1#

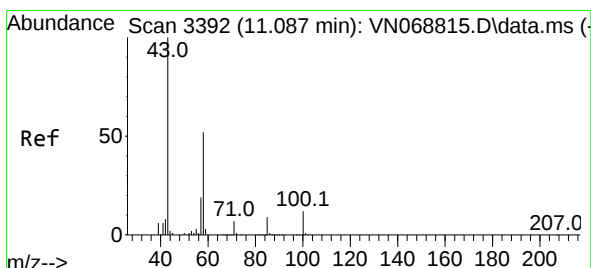
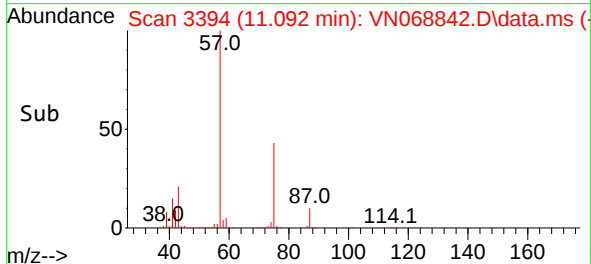
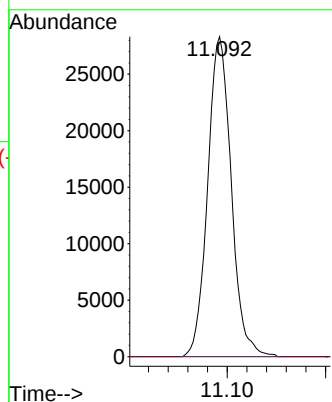
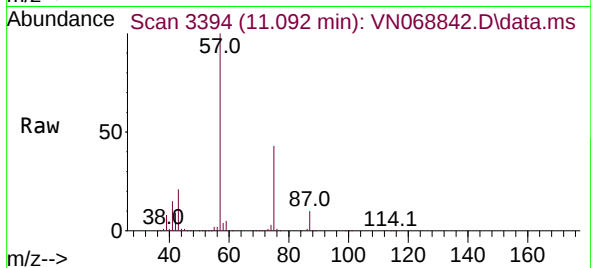




#57
1,3-Dichloropropane
Concen: 5.072 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.045 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

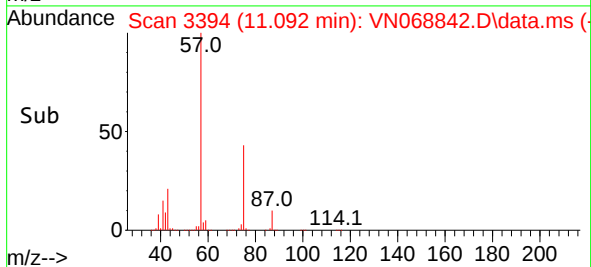
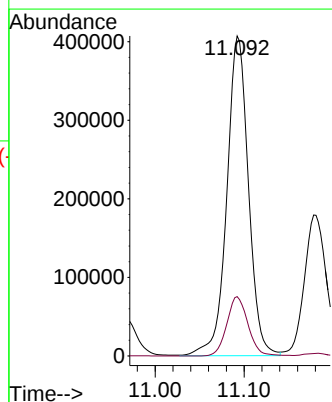
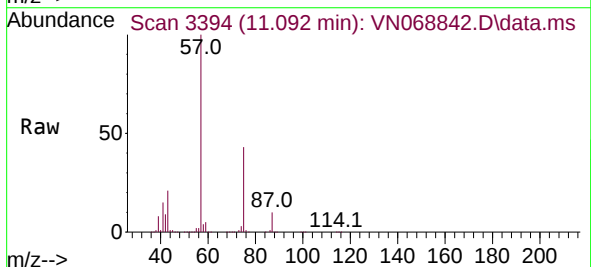
Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

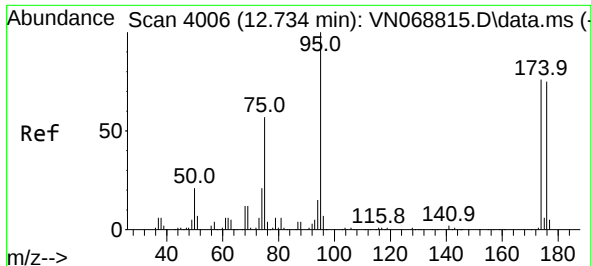
Tgt Ion: 76 Resp: 47192
Ion Ratio Lower Upper
76 100
78 0.0 25.7 38.5#



#59
2-Hexanone
Concen: 130.353 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 43 Resp: 687452
Ion Ratio Lower Upper
43 100
58 18.3 24.7 74.1#

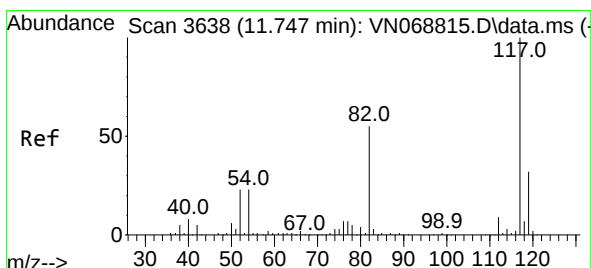
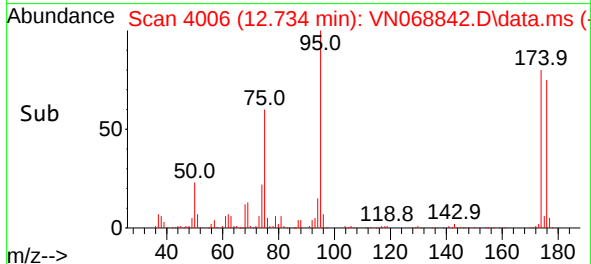
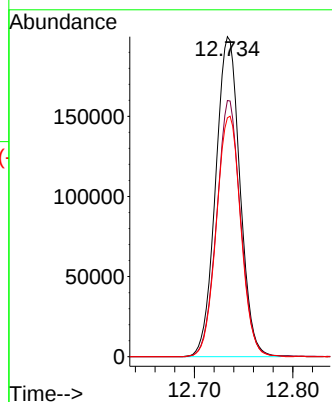
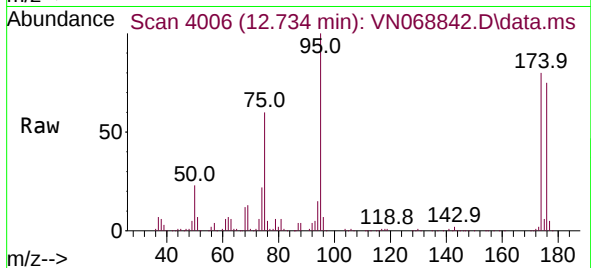




#62
4-Bromofluorobenzene
Concen: 43.089 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

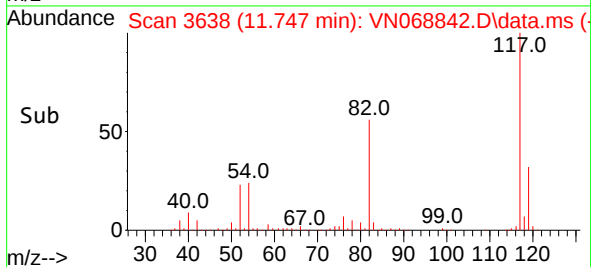
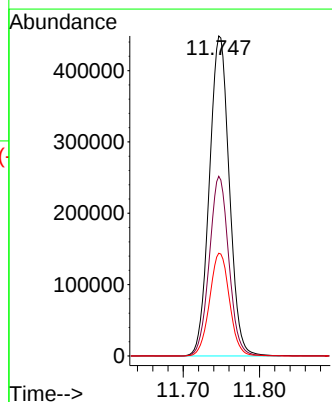
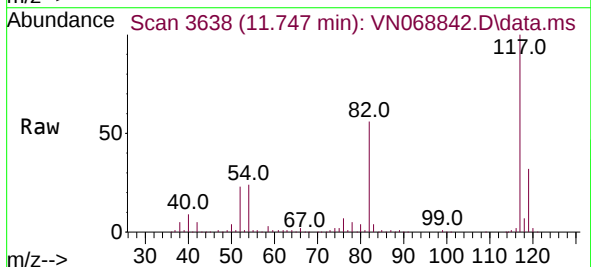
Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

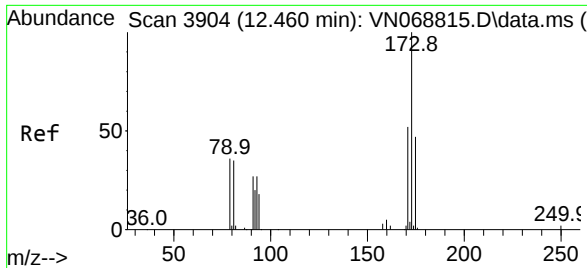
Tgt Ion: 95 Resp: 343309
Ion Ratio Lower Upper
95 100
174 78.9 0.0 122.0
176 75.8 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion: 117 Resp: 812748
Ion Ratio Lower Upper
117 100
82 56.2 53.1 79.7
119 32.1 25.5 38.3

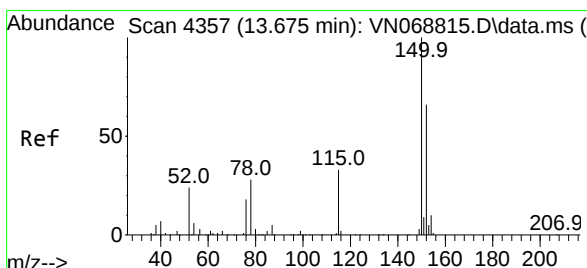
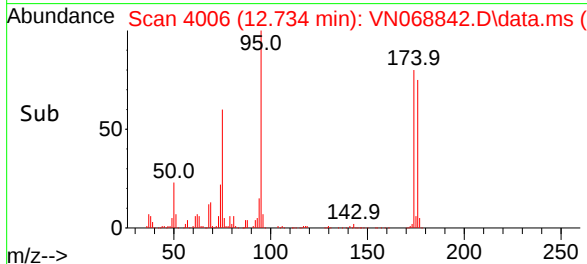
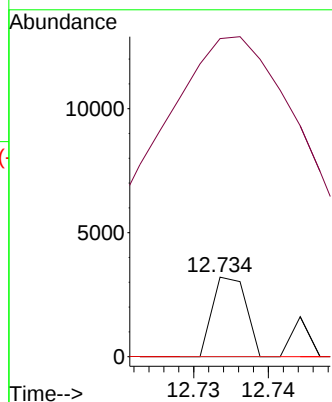
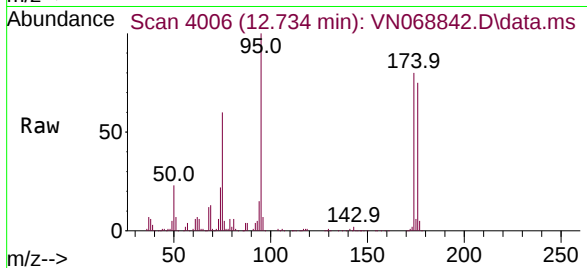




#71
Bromoform
Concen: 0.221 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.274 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

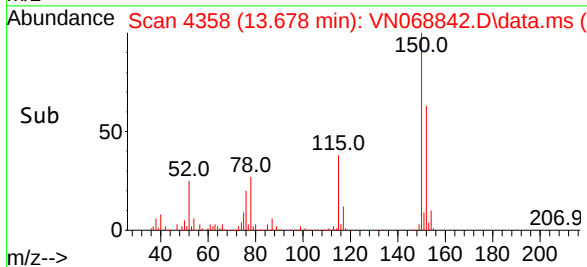
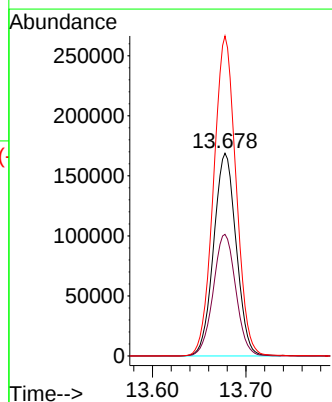
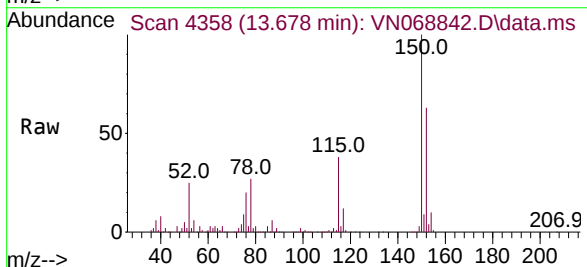
Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

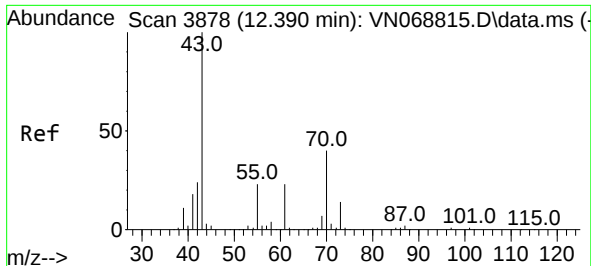
Tgt Ion:173 Resp: 1003
Ion Ratio Lower Upper
173 100
175 2051.9 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

Tgt Ion:152 Resp: 282170
Ion Ratio Lower Upper
152 100
115 60.2 36.1 108.5
150 157.6 0.0 351.8

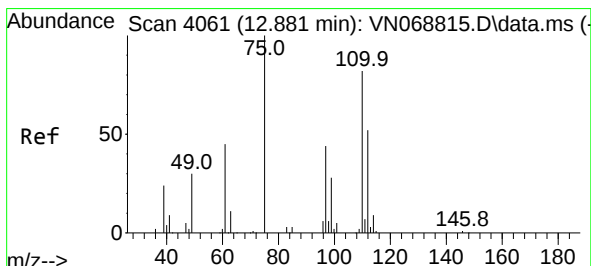
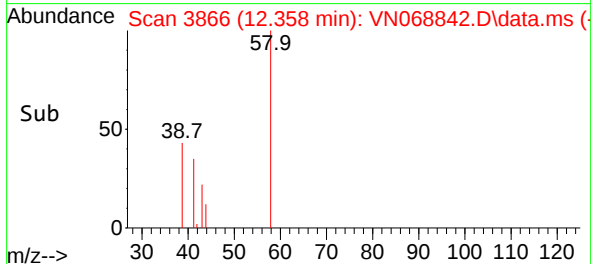
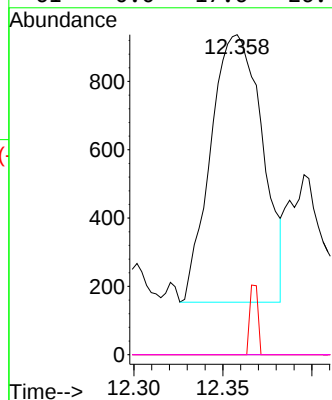
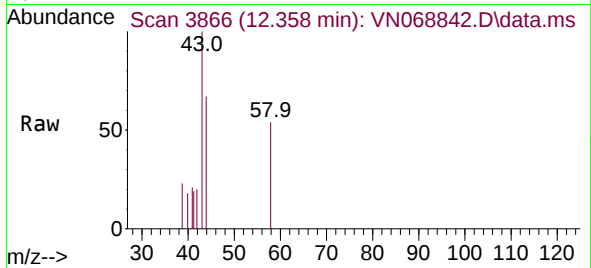




#74
N-amy1 acetate
Concen: 0.209 ug/l
RT: 12.358 min Scan# 3866
Delta R.T. -0.032 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

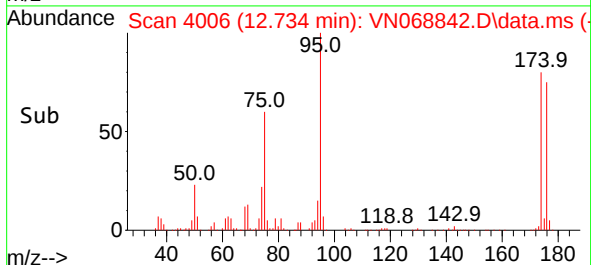
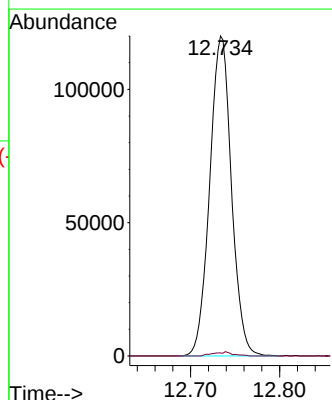
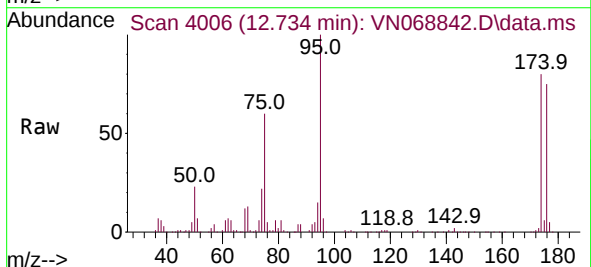
Instrument :
MSVOA_N
ClientSampleId :
WC-20211005-ROCK

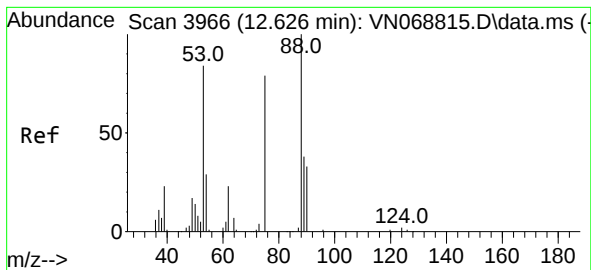
Tgt Ion: 43 Resp: 1580
Ion Ratio Lower Upper
43 100
70 0.0 29.4 44.2#
55 4.1 17.0 25.4#
61 0.0 17.6 26.4#



#76
1,2,3-Trichloropropane
Concen: 36.549 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068842.D
Acq: 7 Oct 2021 15:32

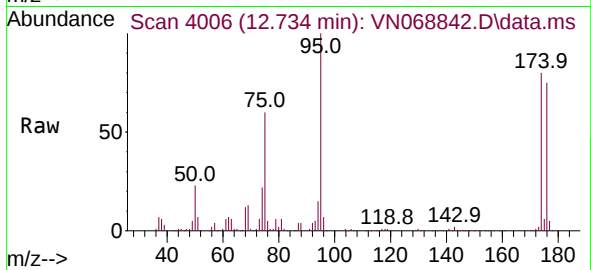
Tgt Ion: 75 Resp: 203295
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.882 ug/l
 RT: 12.734 min Scan# 4006
 Delta R.T. 0.108 min
 Lab File: VN068842.D
 Acq: 7 Oct 2021 15:32

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-20211005-ROCK



Tgt Ion: 75 Resp: 203295

Ion	Ratio	Lower	Upper
75	100		
53	0.0	87.6	131.4#
89	0.0	37.8	56.8#

