

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102921\
 Data File : VN069307.D
 Acq On : 29 Oct 2021 17:47
 Operator : JC/MD
 Sample : PB140327ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 05:44:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102821W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 28 16:09:15 2021
 Response via : Initial Calibration

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

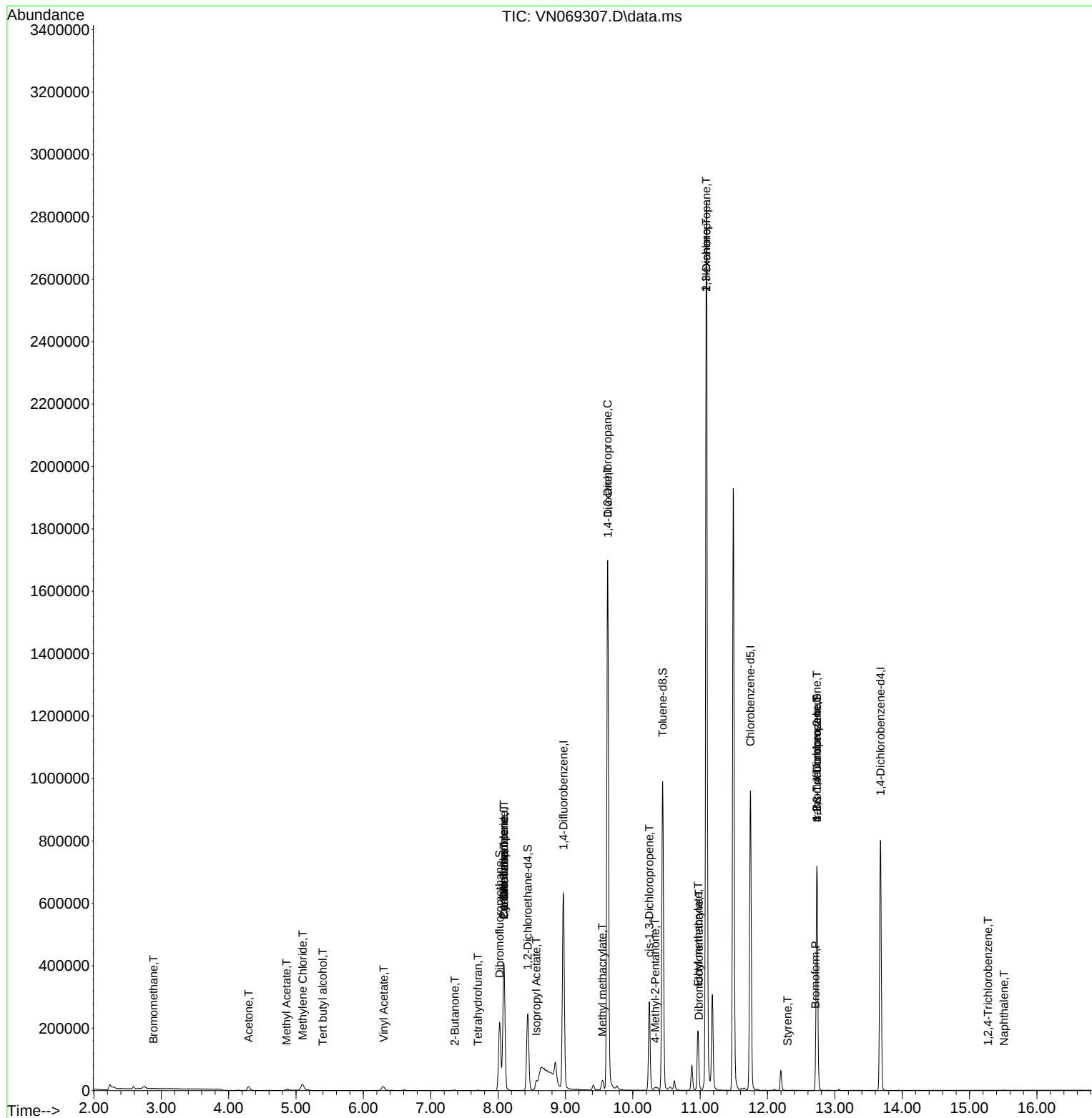
Internal Standards						
1) Pentafluorobenzene	8.088	168	304961	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	552500	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	555892	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	212574	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	209915	47.684	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.360%		
35) Dibromofluoromethane	8.024	113	158948	46.151	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.300%		
50) Toluene-d8	10.443	98	699828	50.821	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.640%		
62) 4-Bromofluorobenzene	12.734	95	256279	49.319	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	98.640%		
Target Compounds						Qvalue
3) Chloromethane	2.303	50	621	Below Cal	#	42
5) Bromomethane	2.885	94	540	0.211	ug/l #	68
11) Tert butyl alcohol	5.396	59	25	13.435	ug/l #	72
16) Acetone	4.296	43	24031	12.812	ug/l	93
18) Methyl Acetate	4.859	43	3891	0.610	ug/l #	90
20) Methylene Chloride	5.098	84	15346	4.266	ug/l	95
23) Vinyl Acetate	6.302	43	25	6.592	ug/l #	72
25) 2-Butanone	7.356	43	3650	2.896	ug/l #	83
29) Tetrahydrofuran	7.700	42	665	3.293	ug/l #	74
31) Cyclohexane	8.088	56	6982	1.185	ug/l #	13
36) 1,1-Dichloropropene	8.088	75	24893	5.226	ug/l #	50
38) Carbon Tetrachloride	8.086	117	32846	6.950	ug/l #	15
43) Isopropyl Acetate	8.569	43	34624	4.083	ug/l #	90
45) 1,2-Dichloropropane	9.628	63	1988	0.545	ug/l #	43
48) Methyl methacrylate	9.547	41	8720	2.129	ug/l #	13
49) 1,4-Dioxane	9.631	88	25	35.100	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	4422	7.102	ug/l #	69
54) cis-1,3-Dichloropropene	10.245	75	51611	9.184	ug/l #	62
56) Ethyl methacrylate	10.969	69	1196	1.851	ug/l #	1
57) 1,3-Dichloropropane	11.092	76	30870	4.909	ug/l #	42
59) 2-Hexanone	11.092	43	441240	98.655	ug/l #	51
60) Dibromochloromethane	10.982	129	24	1.980	ug/l #	10
70) Styrene	12.299	104	102	1.463	ug/l #	24
71) Bromoform	12.712	173	81	2.895	ug/l #	29
76) 1,2,3-Trichloropropane	12.734	75	136926	24.491	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	136926	70.232	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.273	180	26	2.495	ug/l #	1
95) Naphthalene	15.512	128	1198	3.413	ug/l #	69

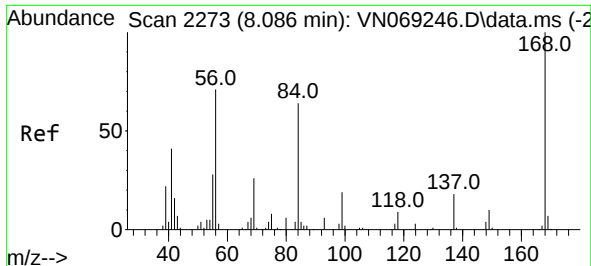
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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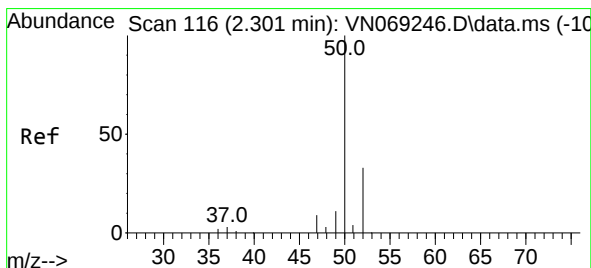
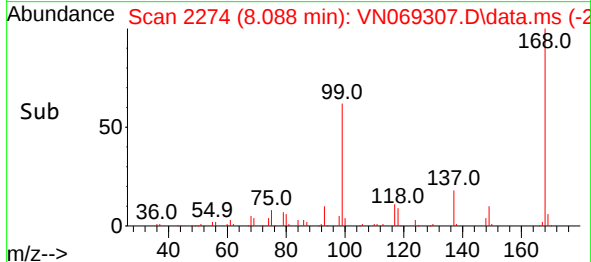
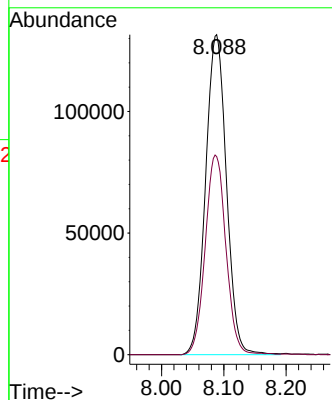
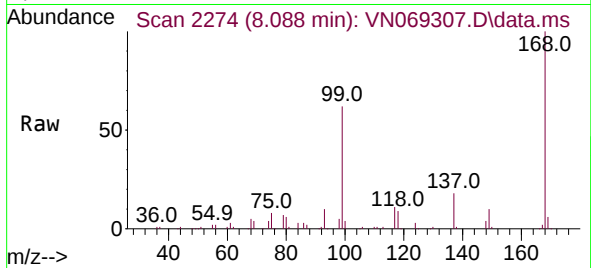




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

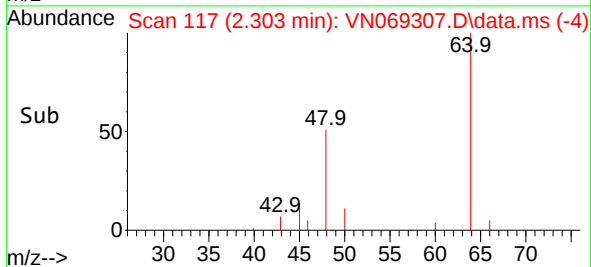
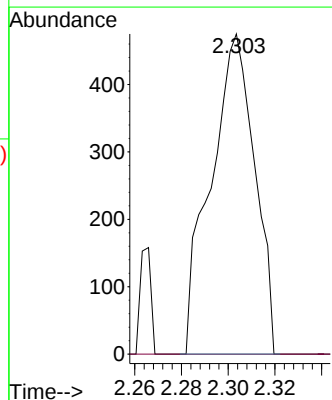
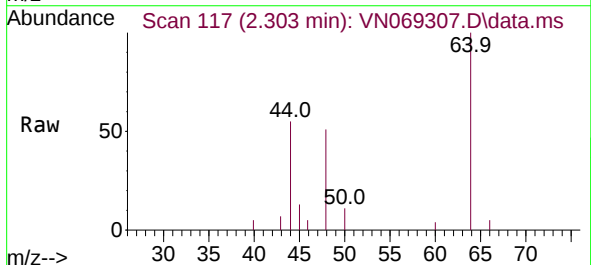
Instrument :
MSVOA_N
ClientSampleId :

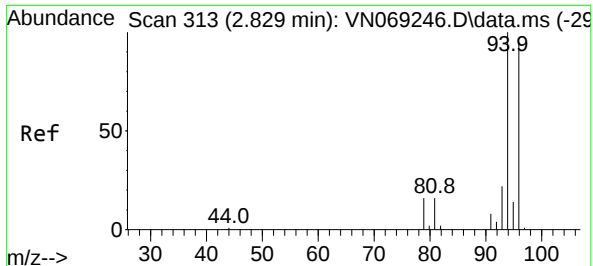
Tgt Ion:168 Resp: 304961
Ion Ratio Lower Upper
168 100
99 61.9 48.9 73.3



#3
Chloromethane
Concen: Below Cal
RT: 2.303 min Scan# 117
Delta R.T. 0.002 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

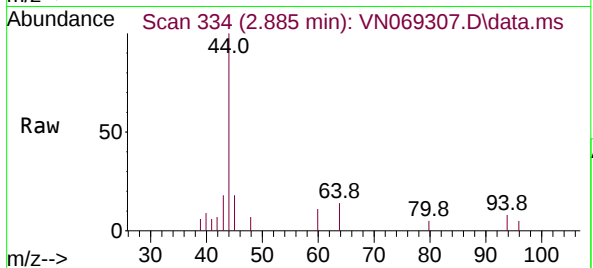
Tgt Ion: 50 Resp: 621
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#



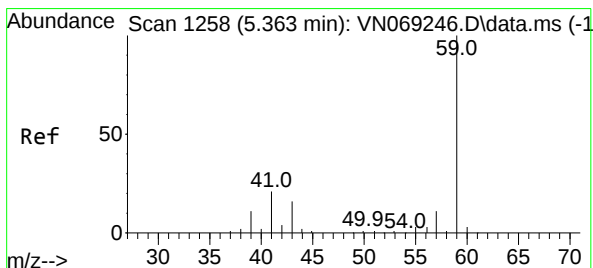
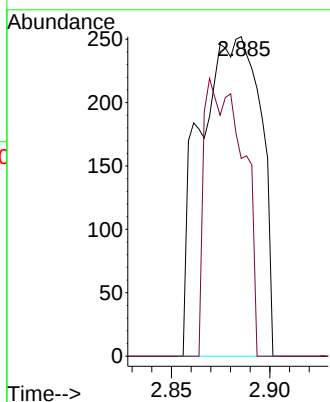
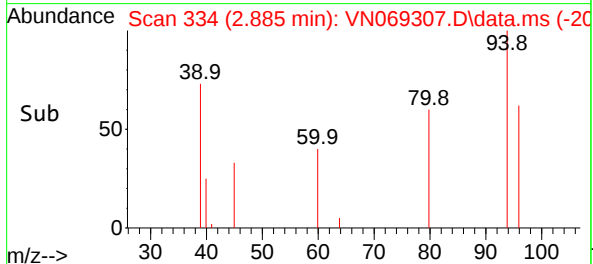


#5
Bromomethane
Concen: 0.211 ug/l
RT: 2.885 min Scan# 31
Delta R.T. 0.056 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Instrument :
MSVOA_N
ClientSampleId :

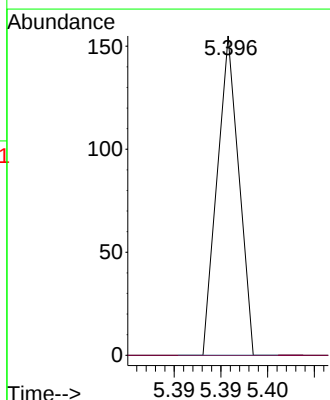
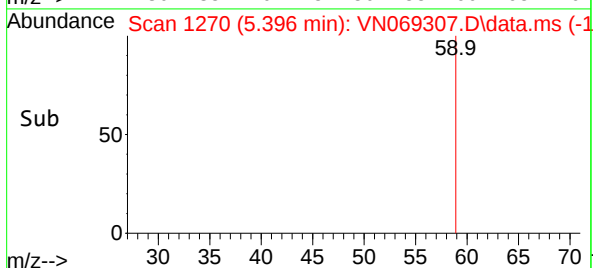
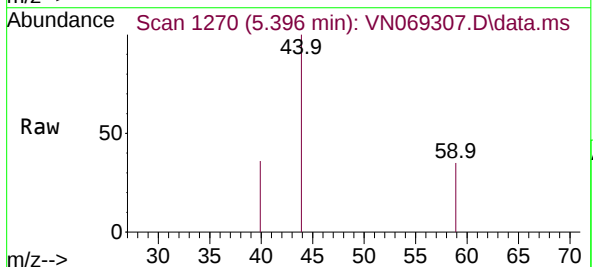


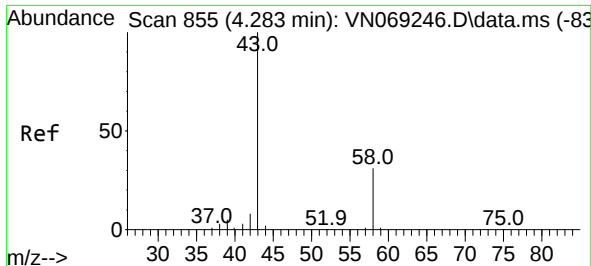
Tgt Ion: 94 Resp: 540
Ion Ratio Lower Upper
94 100
96 61.9 74.2 111.4#



#11
Tert butyl alcohol
Concen: 13.435 ug/l
RT: 5.396 min Scan# 1270
Delta R.T. 0.033 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Tgt Ion: 59 Resp: 25
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

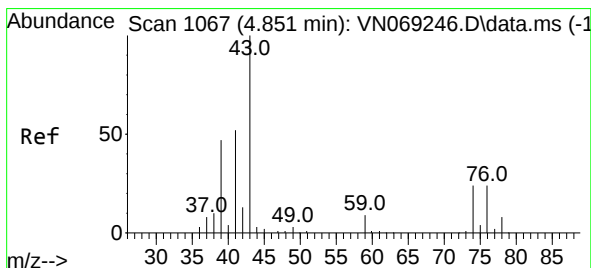
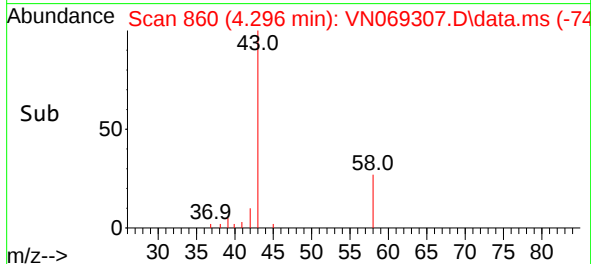
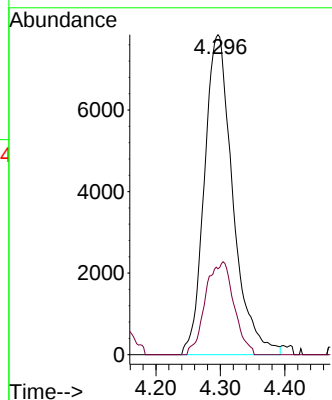
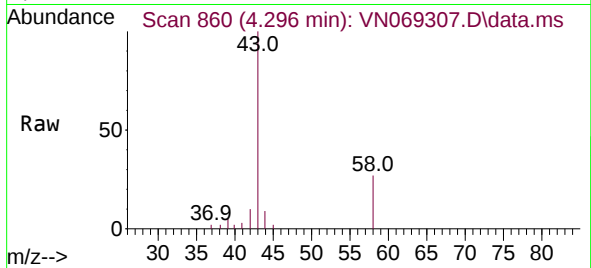




#16
Acetone
Concen: 12.812 ug/l
RT: 4.296 min Scan# 80
Delta R.T. 0.013 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

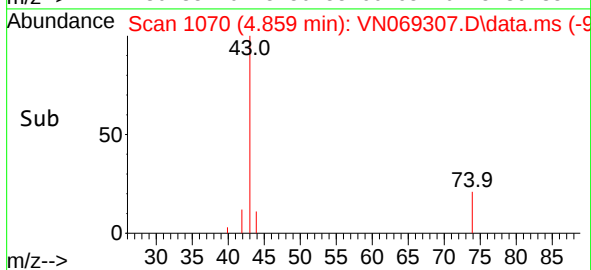
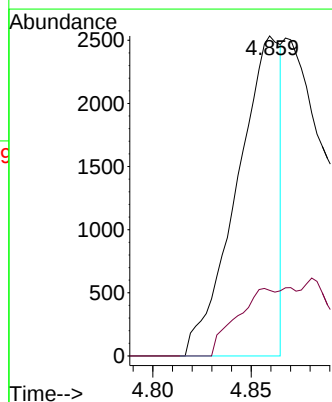
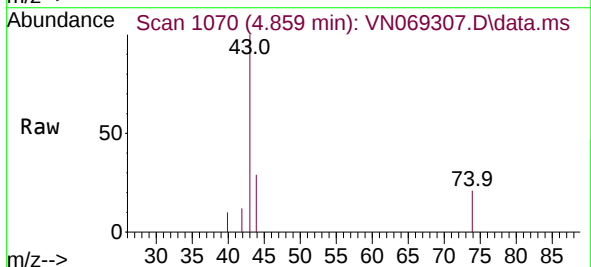
Instrument :
MSVOA_N
ClientSampleId :

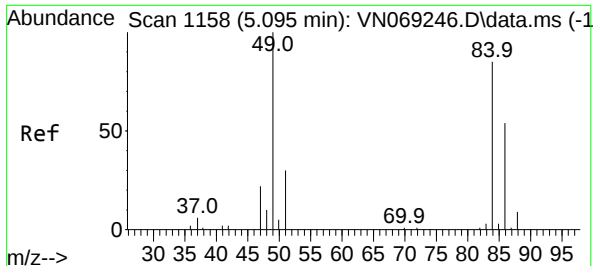
Tgt Ion: 43 Resp: 24031
Ion Ratio Lower Upper
43 100
58 26.9 24.5 36.7



#18
Methyl Acetate
Concen: 0.610 ug/l
RT: 4.859 min Scan# 1070
Delta R.T. 0.008 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Tgt Ion: 43 Resp: 3891
Ion Ratio Lower Upper
43 100
74 18.6 18.9 28.3#





#20

Methylene Chloride

Concen: 4.266 ug/l

RT: 5.098 min Scan# 1158

Delta R.T. 0.003 min

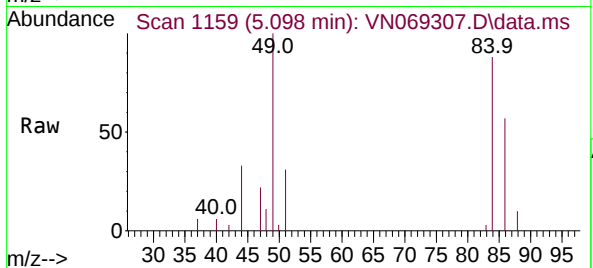
Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 15346

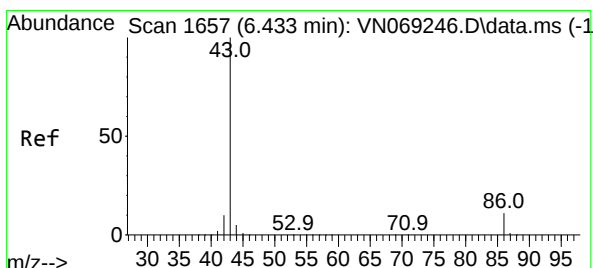
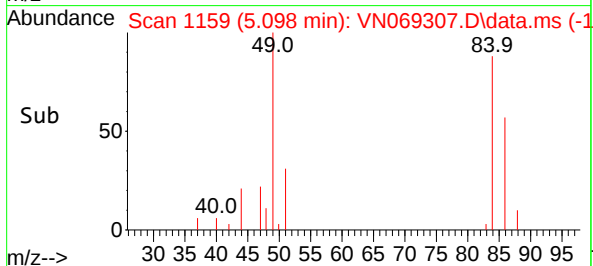
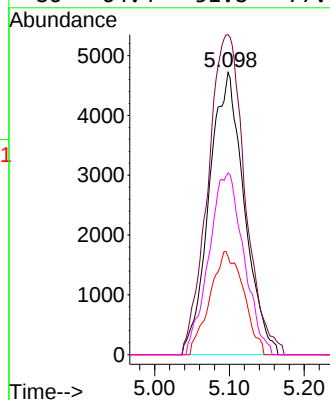
Ion Ratio Lower Upper

84 100

49 113.4 97.6 146.4

51 34.8 30.3 45.5

86 64.4 51.8 77.6



#23

Vinyl Acetate

Concen: 6.592 ug/l

RT: 6.302 min Scan# 1608

Delta R.T. -0.131 min

Lab File: VN069307.D

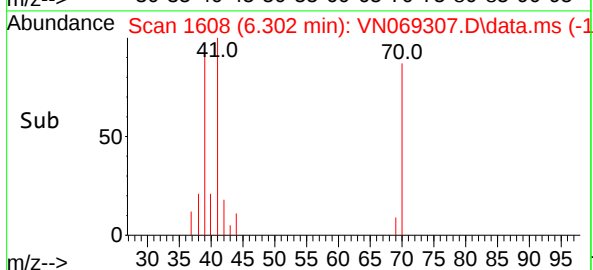
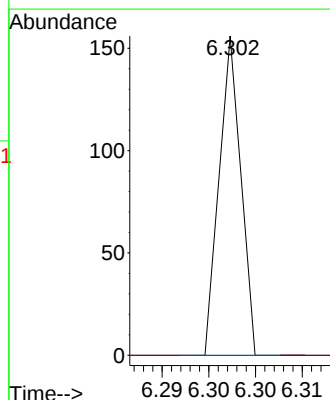
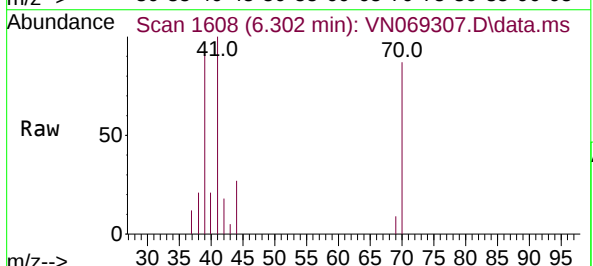
Acq: 29 Oct 2021 17:47

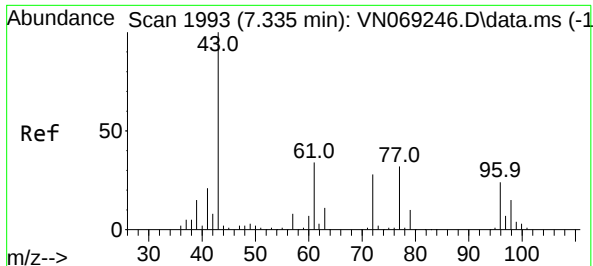
Tgt Ion: 43 Resp: 25

Ion Ratio Lower Upper

43 100

86 0.0 8.3 12.5#





#25

2-Butanone

Concen: 2.896 ug/l

RT: 7.356 min Scan# 2001

Delta R.T. 0.021 min

Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

Instrument :

MSVOA_N

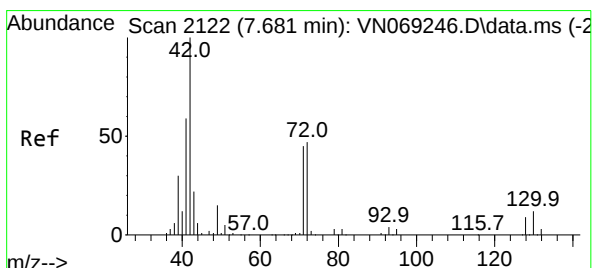
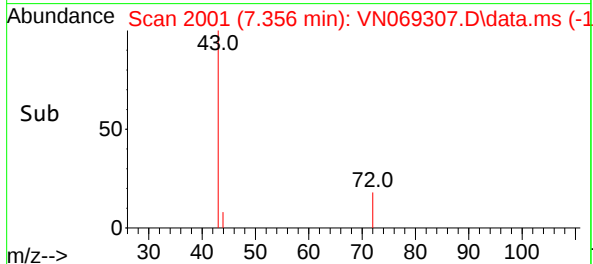
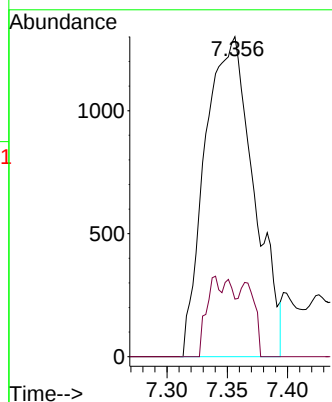
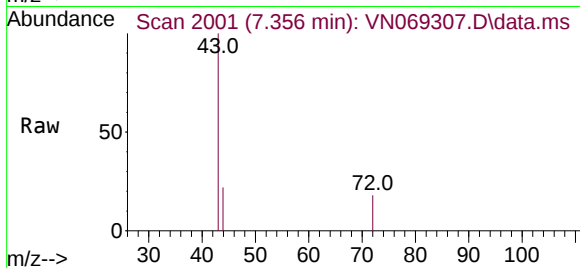
ClientSampleId :

Tgt Ion: 43 Resp: 3650

Ion Ratio Lower Upper

43 100

72 18.0 21.2 31.8#



#29

Tetrahydrofuran

Concen: 3.293 ug/l

RT: 7.700 min Scan# 2129

Delta R.T. 0.019 min

Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

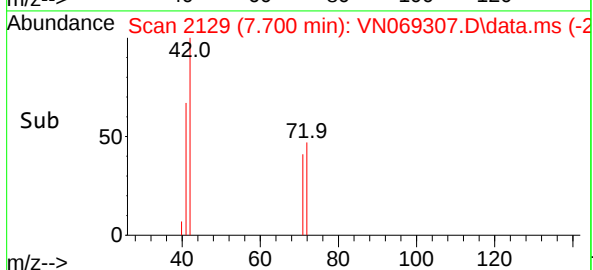
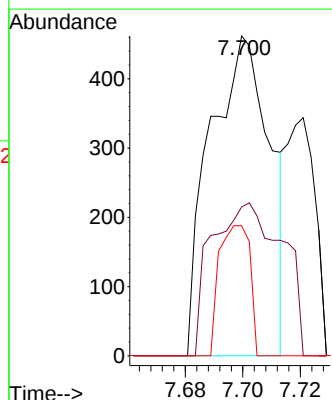
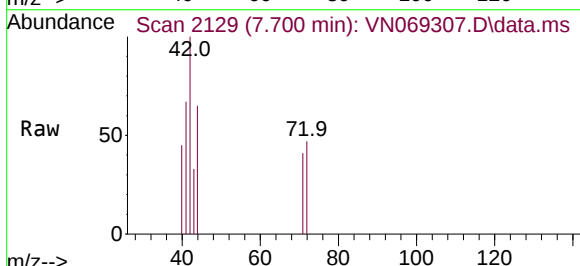
Tgt Ion: 42 Resp: 665

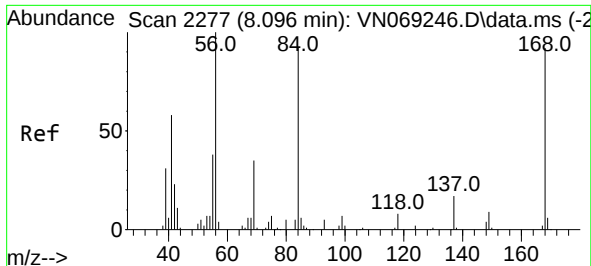
Ion Ratio Lower Upper

42 100

72 56.7 35.4 53.2#

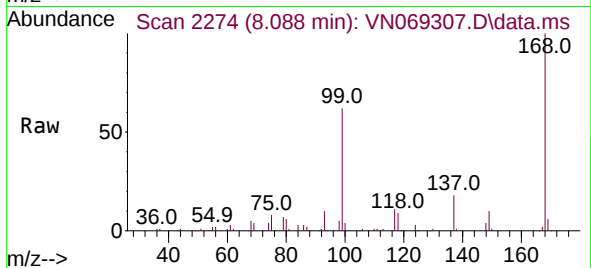
71 20.9 33.8 50.6#



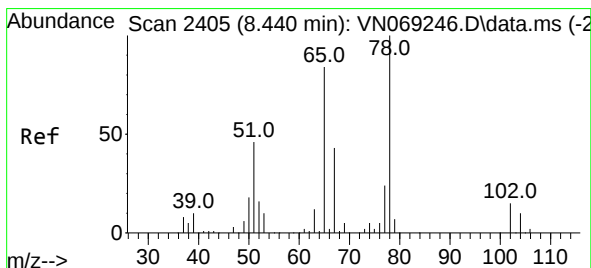
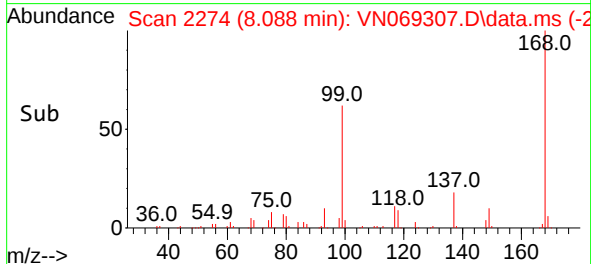
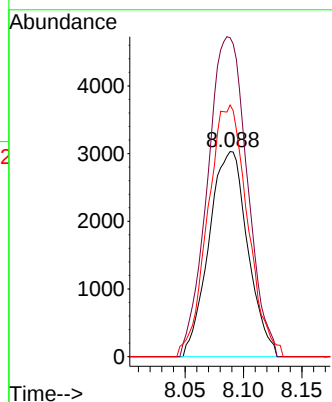


#31
Cyclohexane
Concen: 1.185 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

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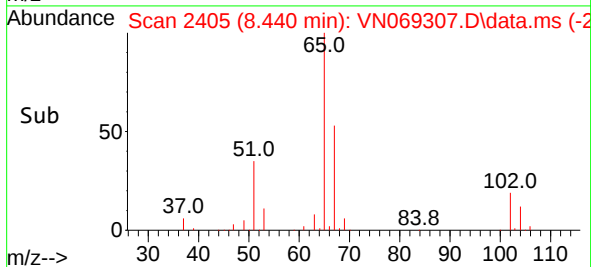
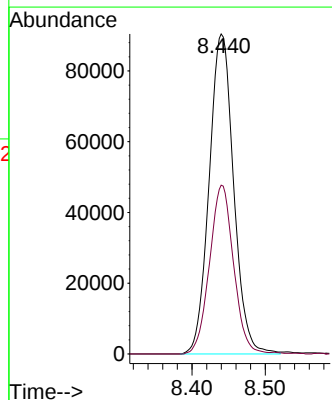
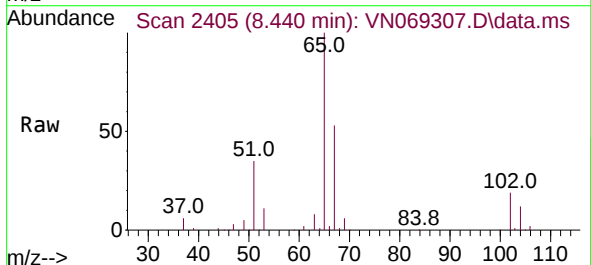


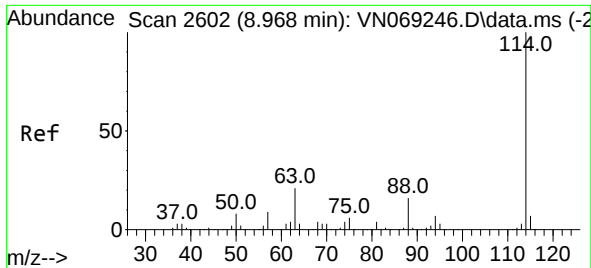
Tgt Ion: 56 Resp: 6982
Ion Ratio Lower Upper
56 100
69 155.4 26.9 40.3#
84 117.7 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 47.684 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Tgt Ion: 65 Resp: 209915
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2

Delta R.T. 0.003 min

Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

Instrument :

MSVOA_N

ClientSampleId :

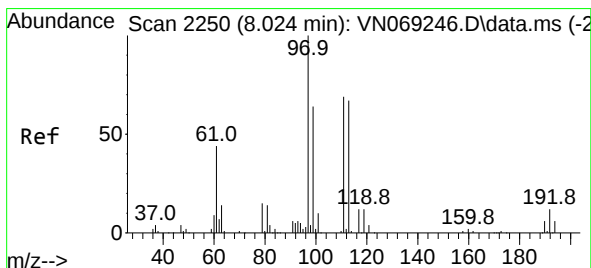
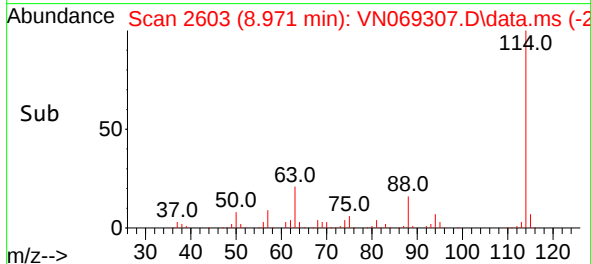
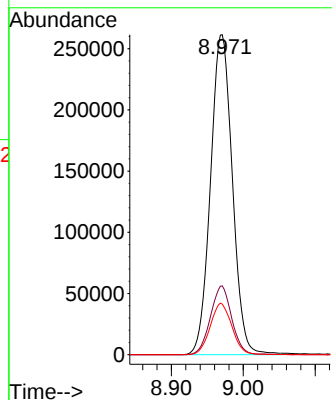
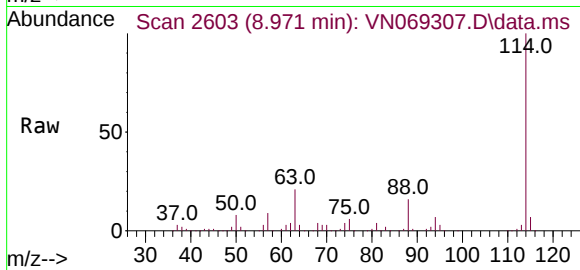
Tgt Ion:114 Resp: 552500

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.6

88 15.8 0.0 32.0



#35

Dibromofluoromethane

Concen: 46.151 ug/l

RT: 8.024 min Scan# 2250

Delta R.T. 0.000 min

Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

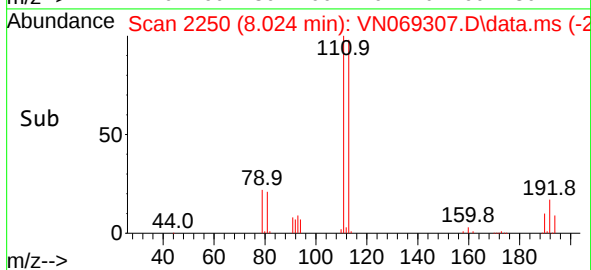
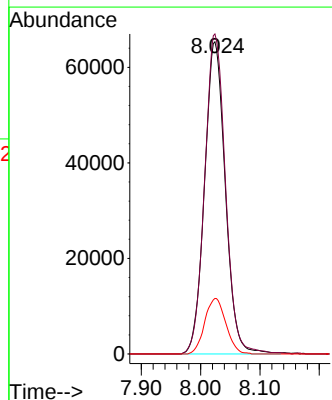
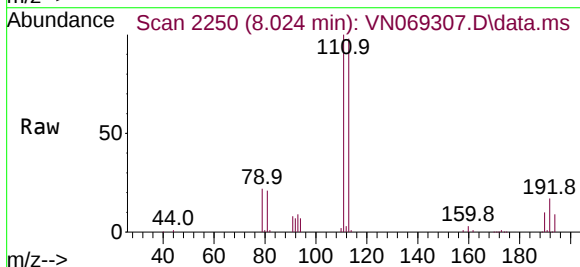
Tgt Ion:113 Resp: 158948

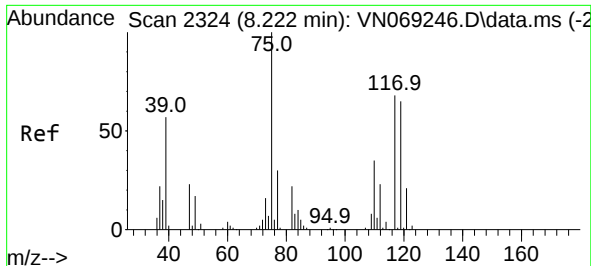
Ion Ratio Lower Upper

113 100

111 102.6 83.2 124.8

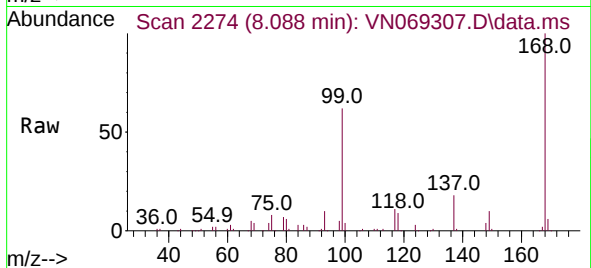
192 18.1 15.0 22.4



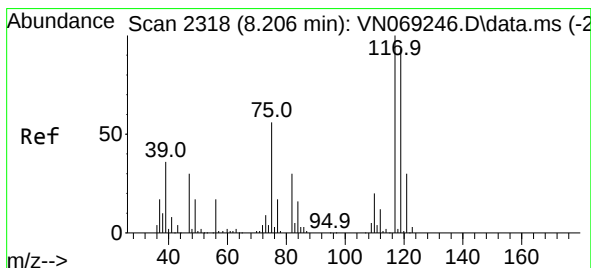
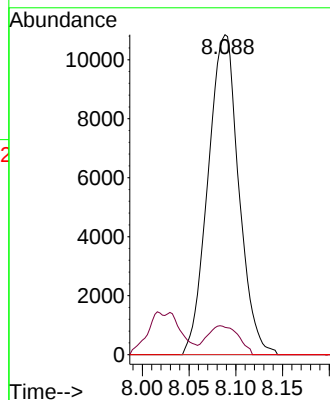
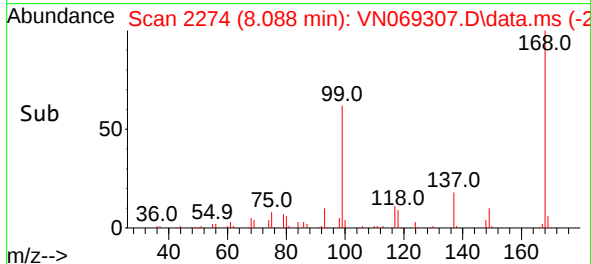


#36
 1,1-Dichloropropene
 Concen: 5.226 ug/l
 RT: 8.088 min Scan# 21
 Delta R.T. -0.134 min
 Lab File: VN069307.D
 Acq: 29 Oct 2021 17:47

Instrument :
 MSVOA_N
 ClientSampleId :

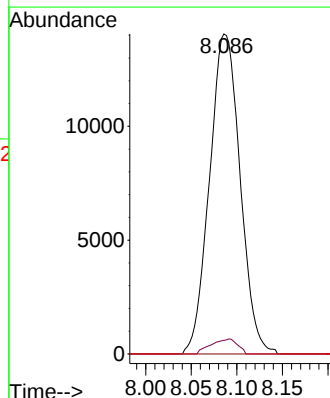
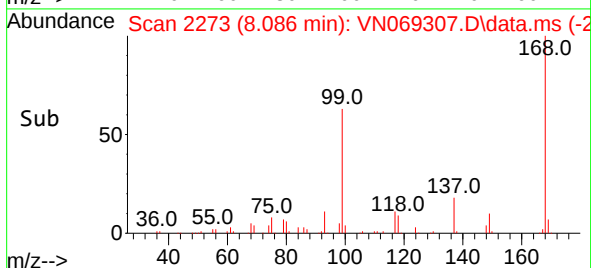
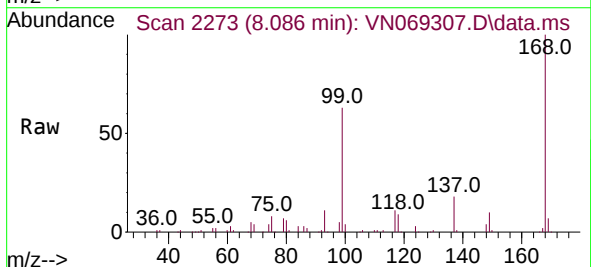


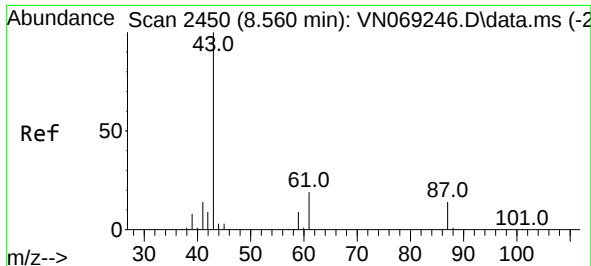
Tgt Ion: 75 Resp: 24893
 Ion Ratio Lower Upper
 75 100
 110 9.2 17.9 53.8#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.950 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.120 min
 Lab File: VN069307.D
 Acq: 29 Oct 2021 17:47

Tgt Ion: 117 Resp: 32846
 Ion Ratio Lower Upper
 117 100
 119 4.2 76.9 115.3#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 4.083 ug/l

RT: 8.569 min Scan# 2450

Delta R.T. 0.009 min

Lab File: VN069307.D

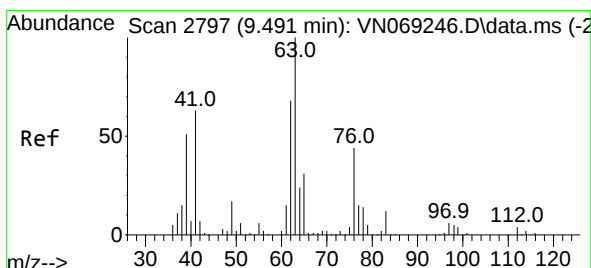
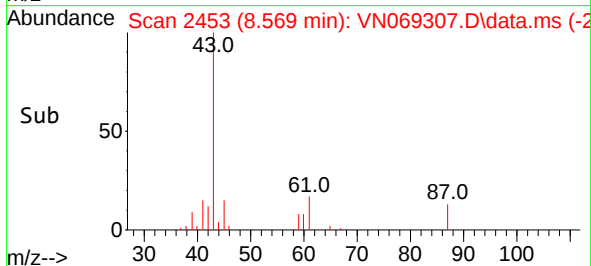
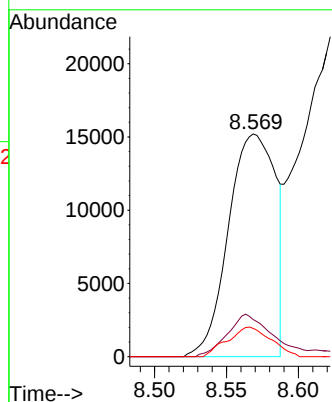
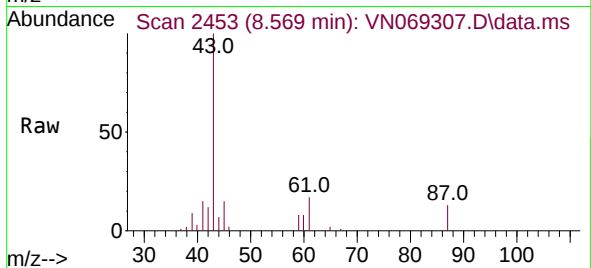
Acq: 29 Oct 2021 17:47

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	43	Resp:	34624
Ion Ratio	Lower	Upper	
43	100		
61	18.2	20.4	30.6#
87	12.2	10.7	16.1



#45

1,2-Dichloropropane

Concen: 0.545 ug/l

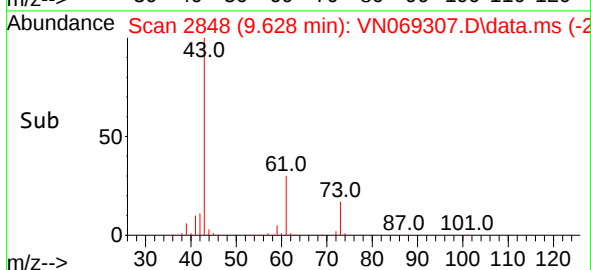
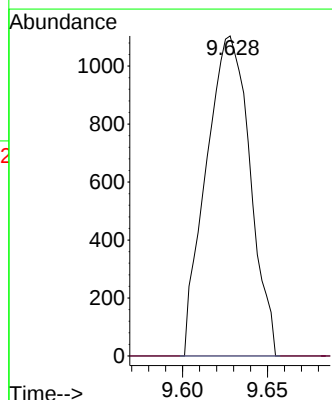
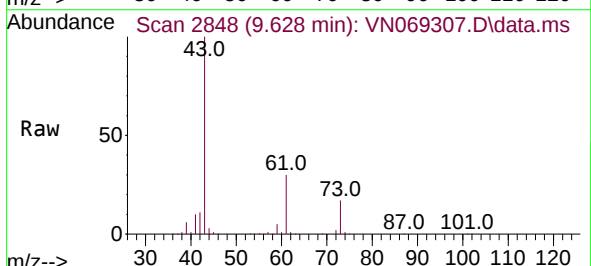
RT: 9.628 min Scan# 2848

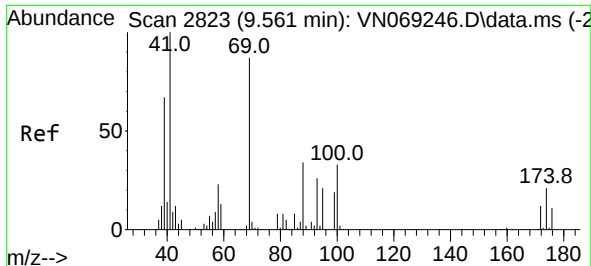
Delta R.T. 0.137 min

Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

Tgt Ion:	63	Resp:	1988
Ion Ratio	Lower	Upper	
63	100		
65	0.0	25.6	38.4#

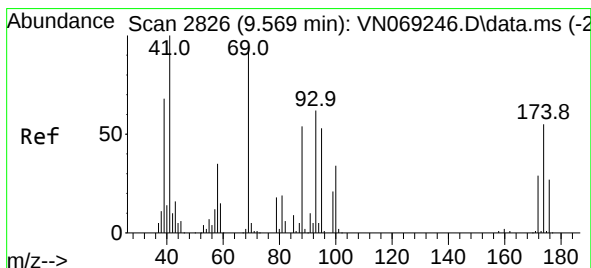
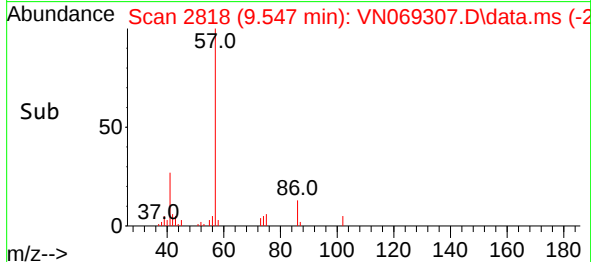
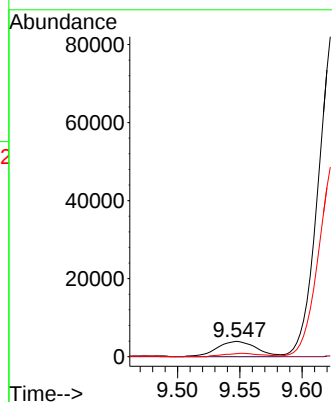
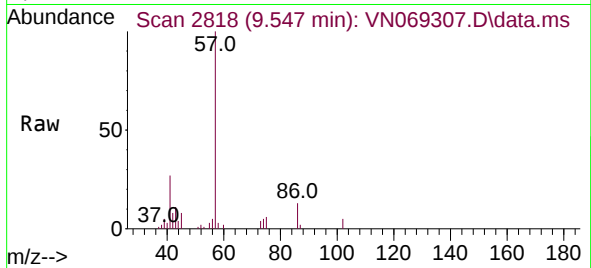




#48
Methyl methacrylate
Concen: 2.129 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.014 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

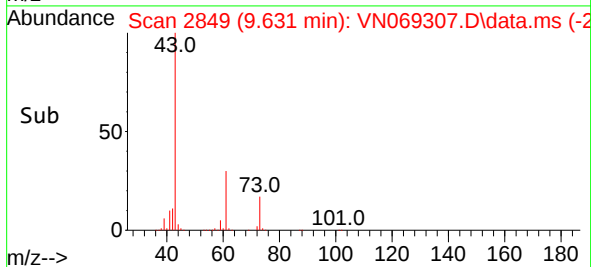
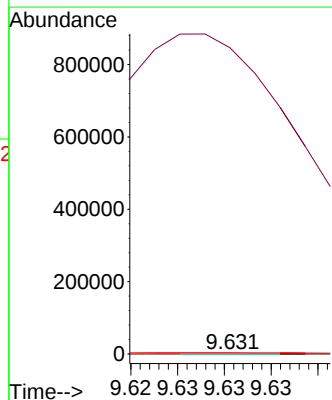
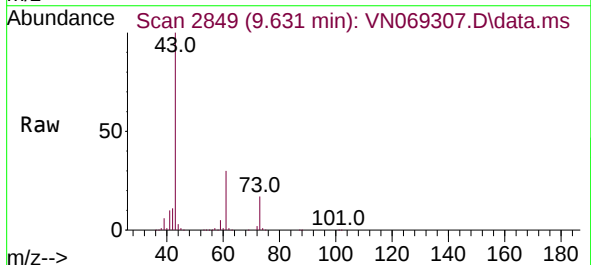
Instrument :
MSVOA_N
ClientSampleId :

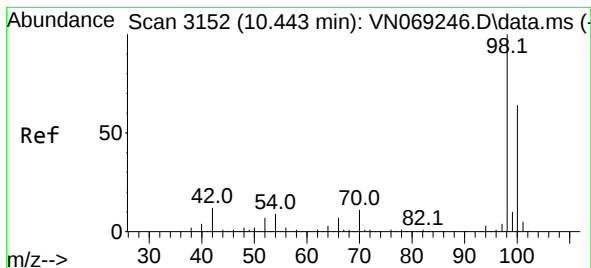
Tgt Ion: 41 Resp: 8720
Ion Ratio Lower Upper
41 100
69 0.0 66.4 99.6#
39 0.0 50.2 75.2#



#49
1,4-Dioxane
Concen: 35.100 ug/l
RT: 9.631 min Scan# 2849
Delta R.T. 0.062 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 6772108.0 24.9 37.3#
58 29660.0 56.9 85.3#





#50

Toluene-d8

Concen: 50.821 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

Instrument :

MSVOA_N

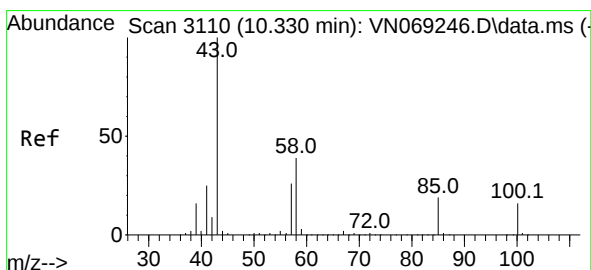
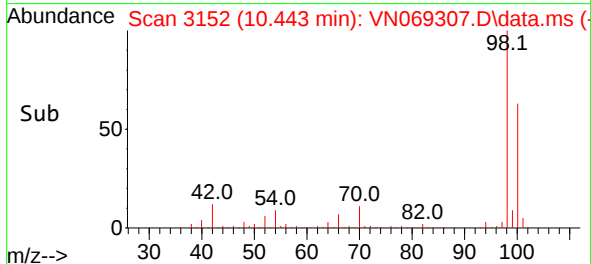
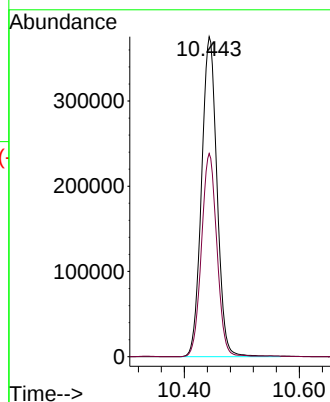
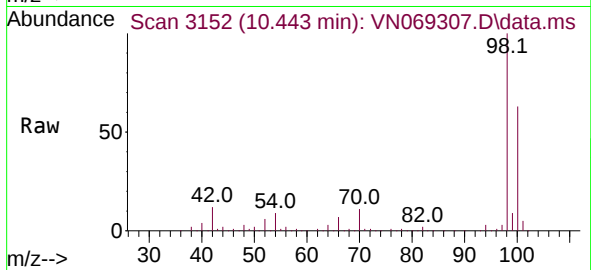
ClientSampleId :

Tgt Ion: 98 Resp: 699828

Ion Ratio Lower Upper

98 100

100 63.4 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 7.102 ug/l

RT: 10.333 min Scan# 3111

Delta R.T. 0.003 min

Lab File: VN069307.D

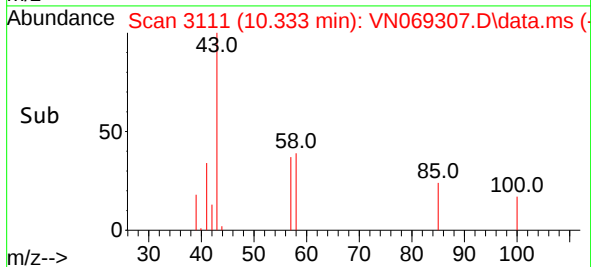
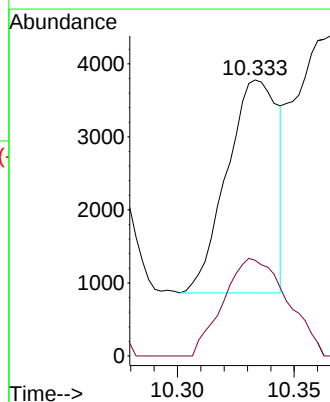
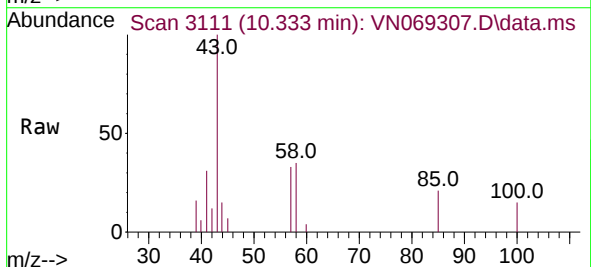
Acq: 29 Oct 2021 17:47

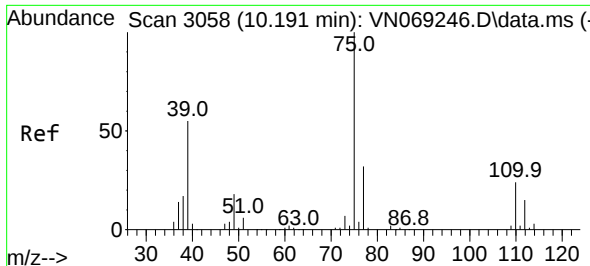
Tgt Ion: 43 Resp: 4422

Ion Ratio Lower Upper

43 100

58 57.4 31.0 46.4#

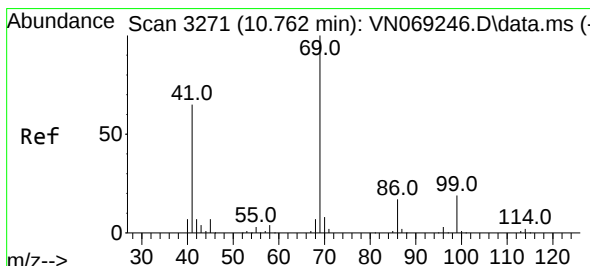
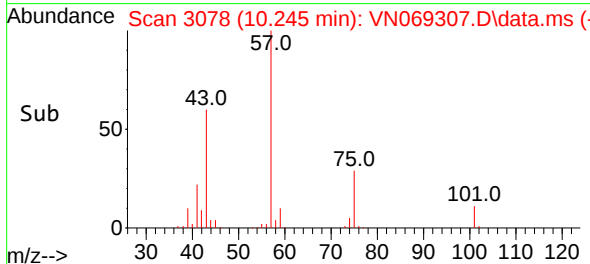
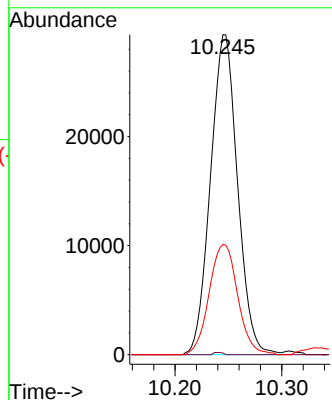
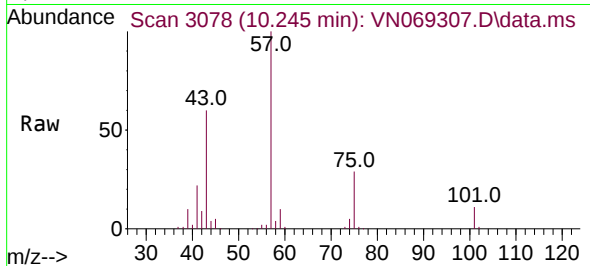




#54
 cis-1,3-Dichloropropene
 Concen: 9.184 ug/l
 RT: 10.245 min Scan# 3058
 Delta R.T. 0.054 min
 Lab File: VN069307.D
 Acq: 29 Oct 2021 17:47

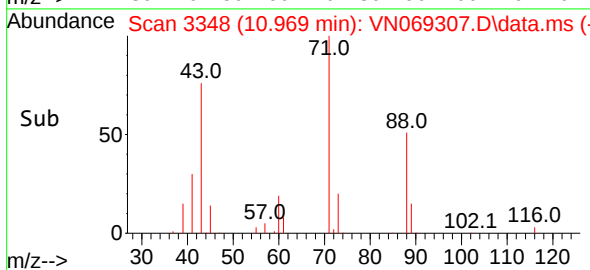
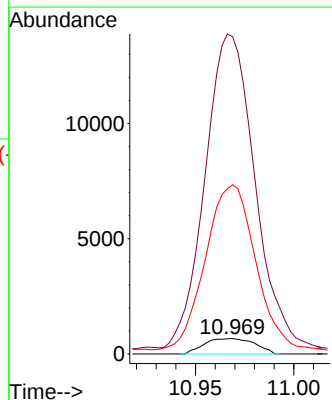
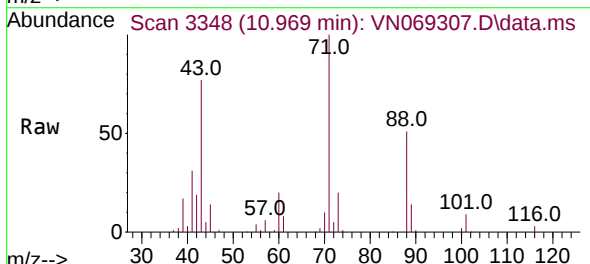
Instrument :
 MSVOA_N
 ClientSampleId :

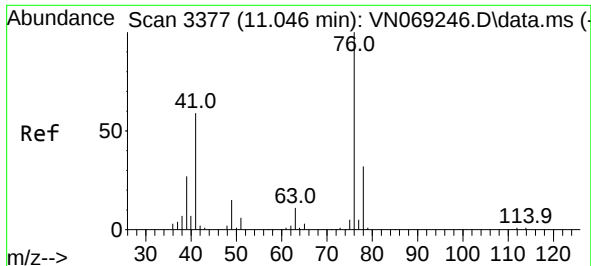
Tgt Ion: 75 Resp: 51611
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.6 38.4#
 39 34.4 42.9 64.3#



#56
 Ethyl methacrylate
 Concen: 1.851 ug/l
 RT: 10.969 min Scan# 3348
 Delta R.T. 0.207 min
 Lab File: VN069307.D
 Acq: 29 Oct 2021 17:47

Tgt Ion: 69 Resp: 1196
 Ion Ratio Lower Upper
 69 100
 41 2026.9 53.3 79.9#
 39 1135.8 33.3 49.9#





#57

1,3-Dichloropropane

Concen: 4.909 ug/l

RT: 11.092 min Scan# 3394

Delta R.T. 0.046 min

Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

Instrument :

MSVOA_N

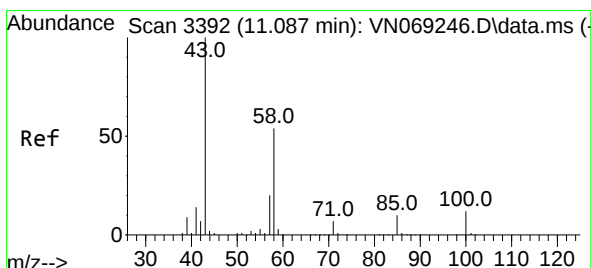
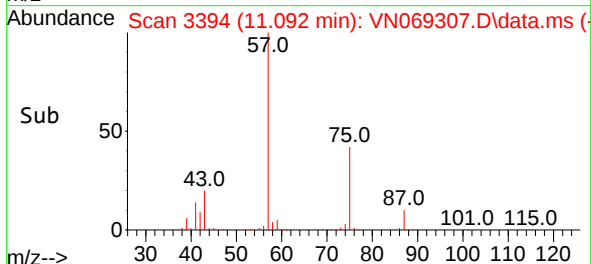
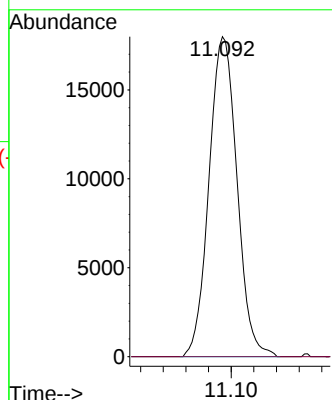
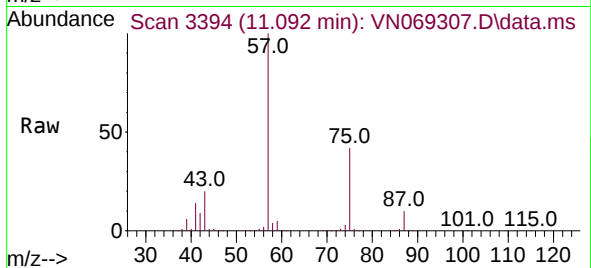
ClientSampleId :

Tgt Ion: 76 Resp: 30870

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 98.655 ug/l

RT: 11.092 min Scan# 3394

Delta R.T. 0.005 min

Lab File: VN069307.D

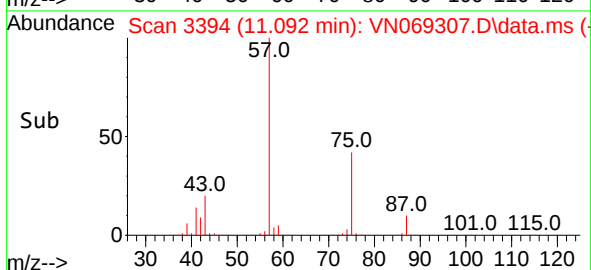
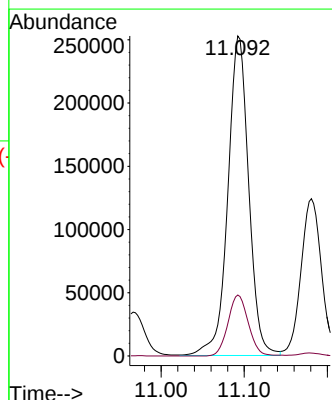
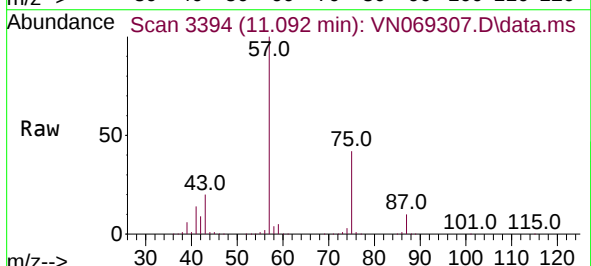
Acq: 29 Oct 2021 17:47

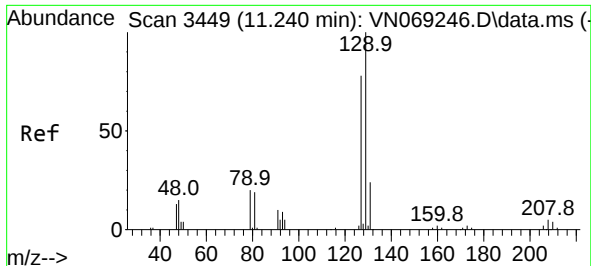
Tgt Ion: 43 Resp: 441240

Ion Ratio Lower Upper

43 100

58 18.5 26.9 80.7#

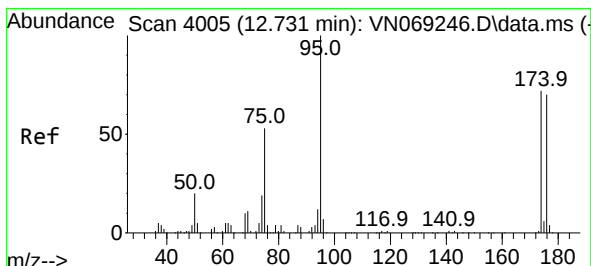
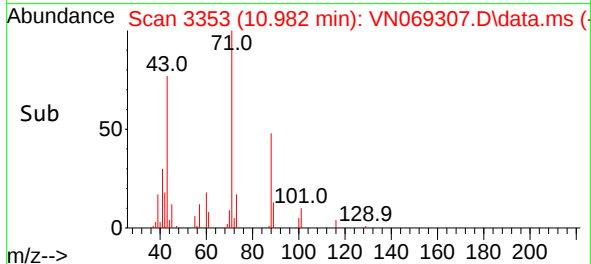
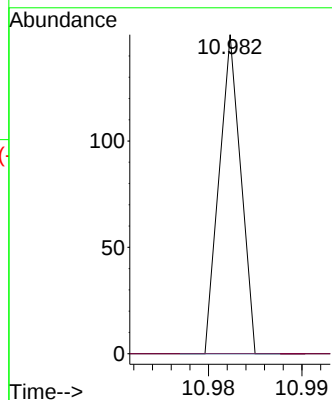
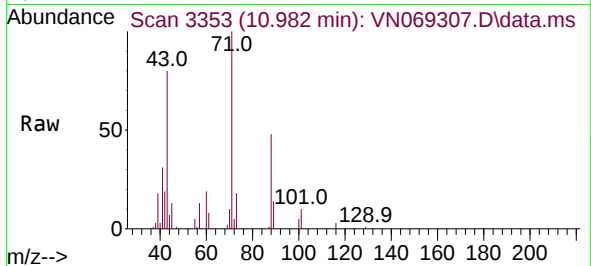




#60
Dibromochloromethane
Concen: 1.980 ug/l
RT: 10.982 min Scan# 31
Delta R.T. -0.258 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

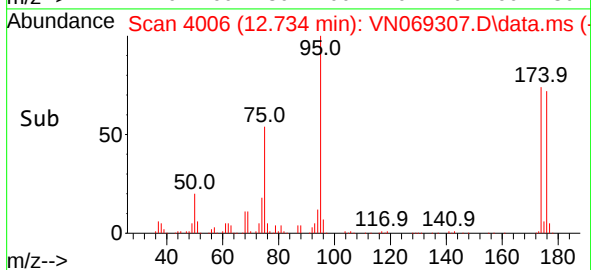
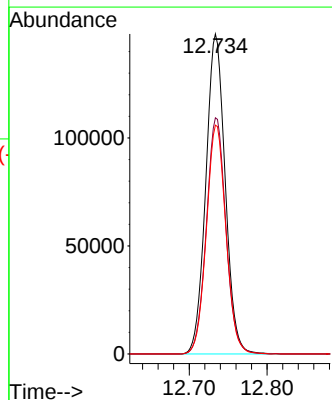
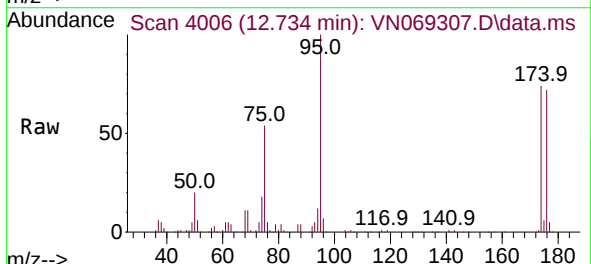
Instrument :
MSVOA_N
ClientSampleId :

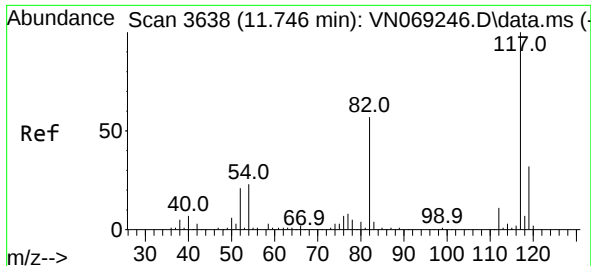
Tgt Ion:129 Resp: 24
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#



#62
4-Bromofluorobenzene
Concen: 49.319 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Tgt Ion: 95 Resp: 256279
Ion Ratio Lower Upper
95 100
174 74.5 0.0 144.8
176 72.3 0.0 140.0

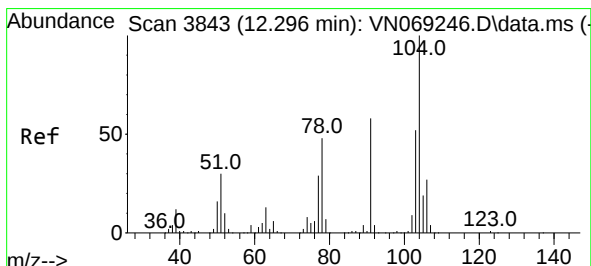
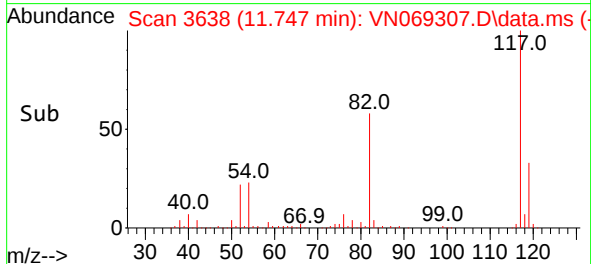
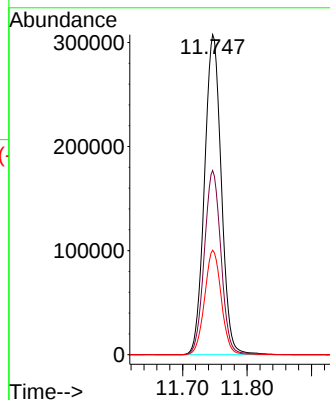
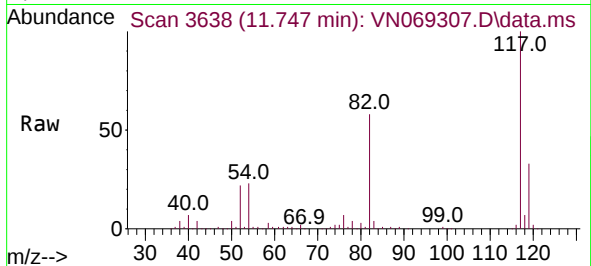




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 30
Delta R.T. 0.000 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

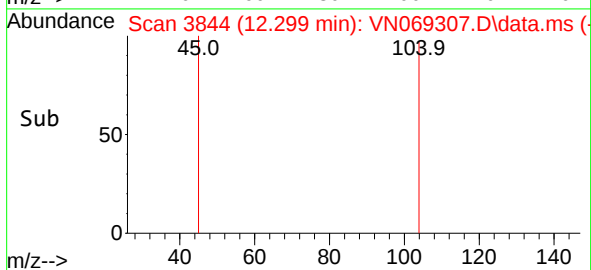
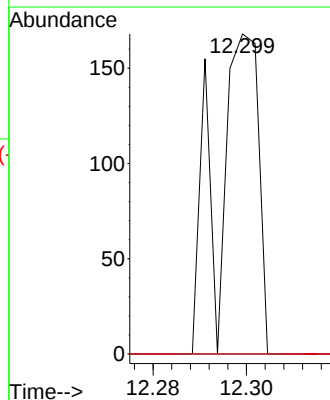
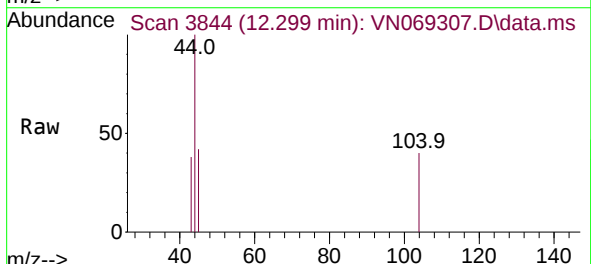
Instrument :
MSVOA_N
ClientSampleId :

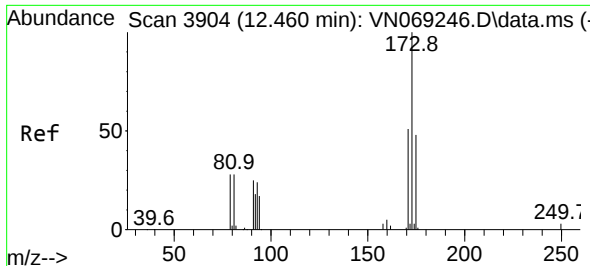
Tgt Ion:117 Resp: 555892
Ion Ratio Lower Upper
117 100
82 57.6 46.4 69.6
119 32.6 26.0 39.0



#70
Styrene
Concen: 1.463 ug/l
RT: 12.299 min Scan# 3844
Delta R.T. 0.003 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Tgt Ion:104 Resp: 102
Ion Ratio Lower Upper
104 100
78 0.0 42.2 63.4#
103 0.0 44.4 66.6#

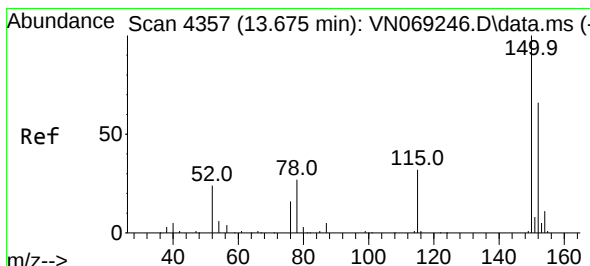
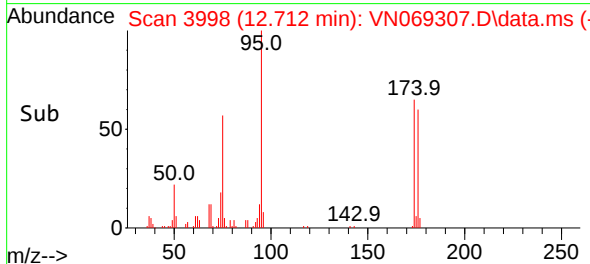
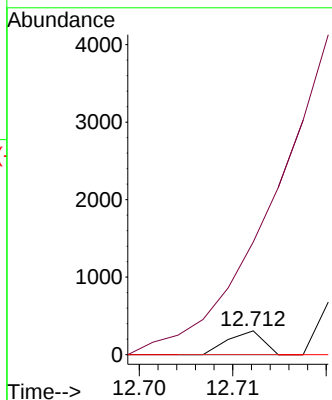
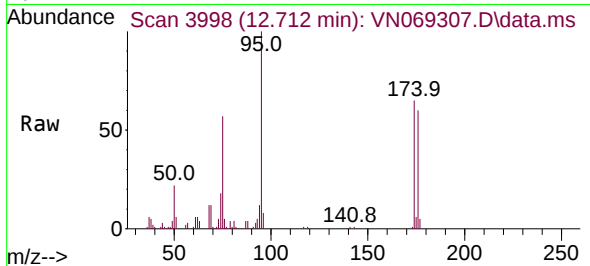




#71
Bromoform
Concen: 2.895 ug/l
RT: 12.712 min Scan# 3904
Delta R.T. 0.252 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

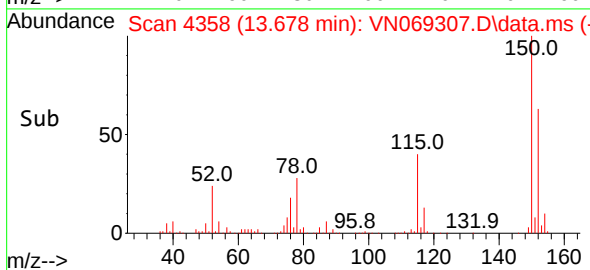
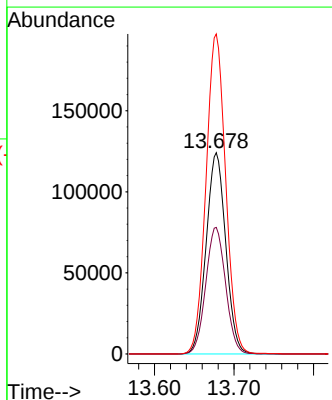
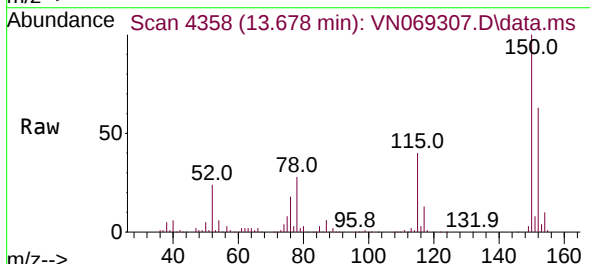
Instrument :
MSVOA_N
ClientSampleId :

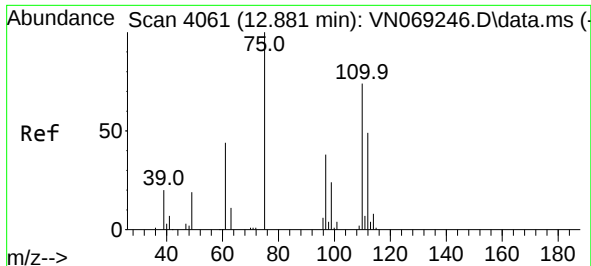
Tgt Ion:173 Resp: 81
Ion Ratio Lower Upper
173 100
175 0.0 23.8 71.5#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Tgt Ion:152 Resp: 212574
Ion Ratio Lower Upper
152 100
115 63.6 31.4 94.3
150 159.0 0.0 351.0

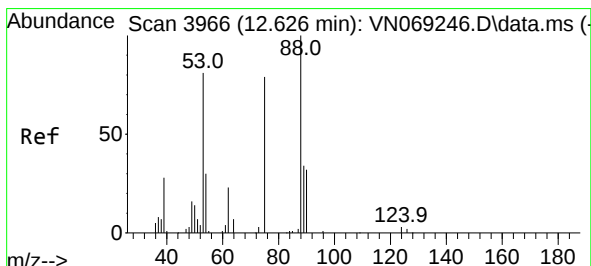
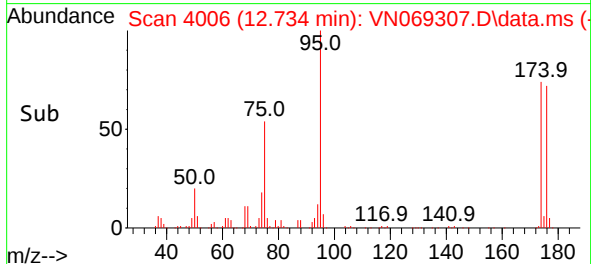
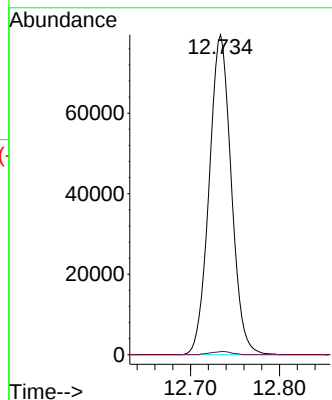
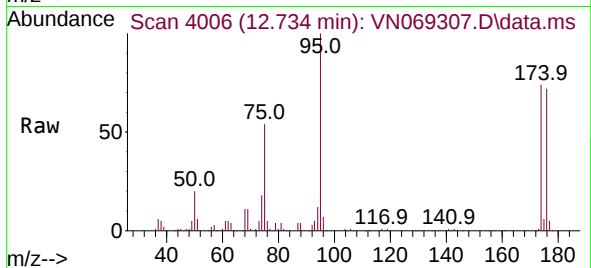




#76
1,2,3-Trichloropropane
Concen: 24.491 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

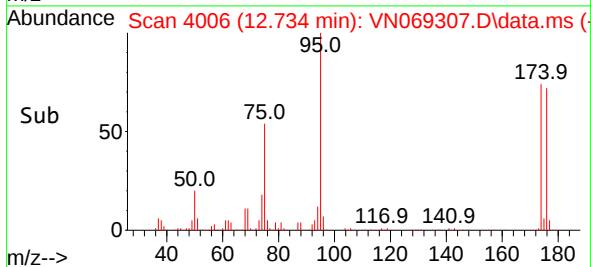
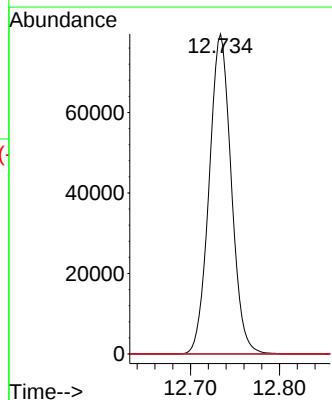
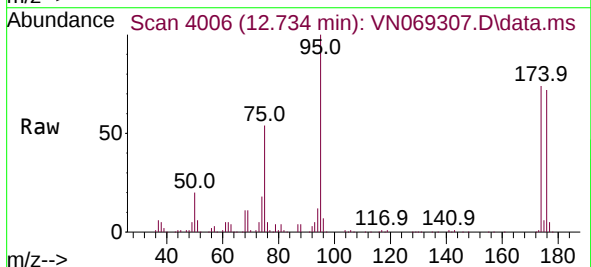
Instrument :
MSVOA_N
ClientSampleId :

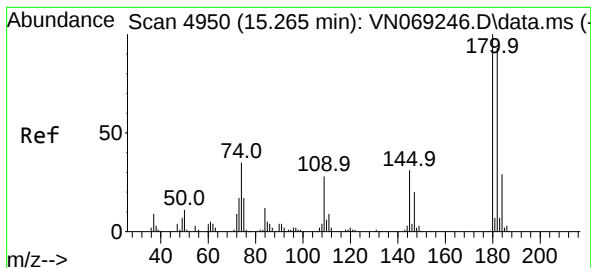
Tgt Ion: 75 Resp: 136926
Ion Ratio Lower Upper
75 100
77 0.9 96.2 288.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.232 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069307.D
Acq: 29 Oct 2021 17:47

Tgt Ion: 75 Resp: 136926
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#





#93

1,2,4-Trichlorobenzene

Concen: 2.495 ug/l

RT: 15.273 min Scan# 4950

Delta R.T. 0.008 min

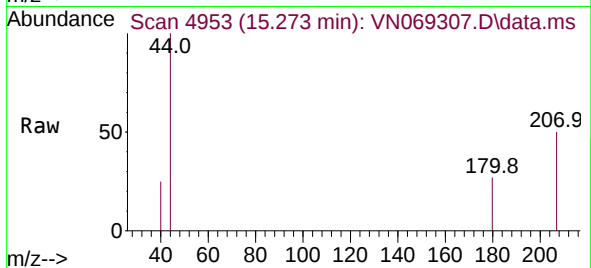
Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

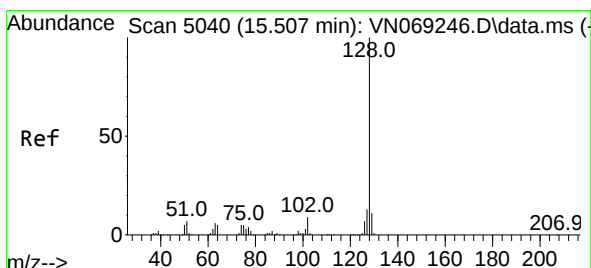
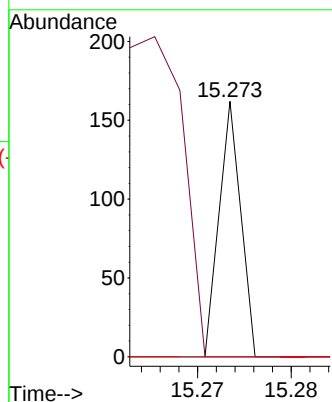
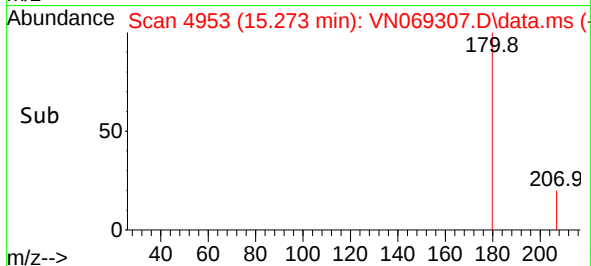
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180	Resp:	26
Ion	Ratio	Lower Upper
180	100	
182	453.8	47.9 143.7#
145	0.0	16.4 49.2#



#95

Naphthalene

Concen: 3.413 ug/l

RT: 15.512 min Scan# 5042

Delta R.T. 0.005 min

Lab File: VN069307.D

Acq: 29 Oct 2021 17:47

Tgt Ion:128	Resp:	1198
Ion	Ratio	Lower Upper
128	100	
127	0.0	10.5 15.7#
129	0.0	8.9 13.3#

