

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012122\
 Data File : VN070733.D
 Acq On : 21 Jan 2022 16:00
 Operator : JC/MD
 Sample : PB142170TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 22 05:29:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011822W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 18 13:32:07 2022
 Response via : Initial Calibration

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

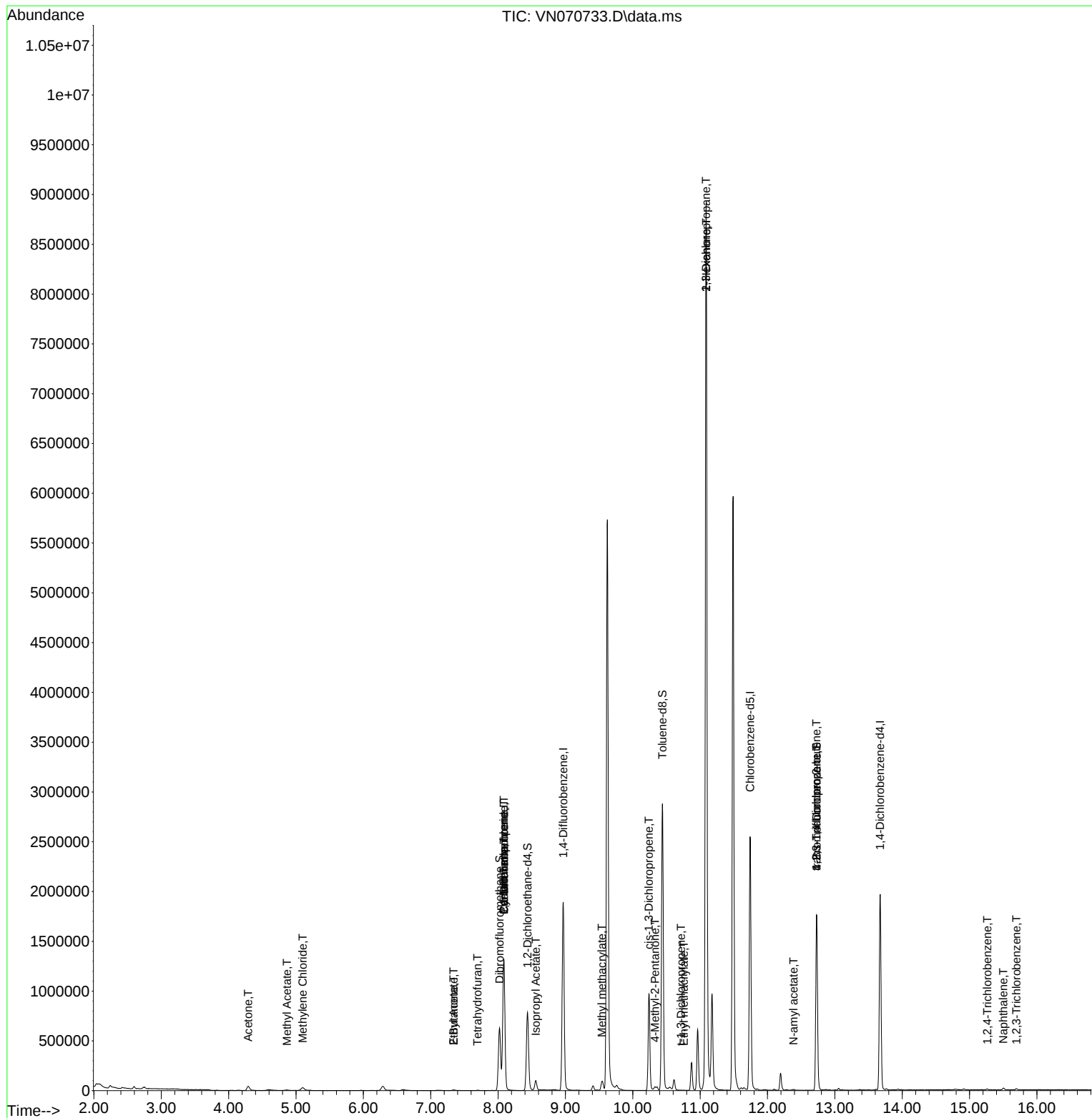
Internal Standards						
1) Pentafluorobenzene	8.086	168	1004919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1616322	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.741	117	1453922	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.672	152	533569	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	672560	46.699	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	93.400%		
35) Dibromofluoromethane	8.021	113	469484	46.826	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	93.660%		
50) Toluene-d8	10.440	98	2034597	48.171	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	96.340%		
62) 4-Bromofluorobenzene	12.731	95	668708	44.429	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	88.860%		
Target Compounds						
					Qvalue	
16) Acetone	4.291	43	76135	7.616	ug/l	98
18) Methyl Acetate	4.867	43	9841	0.501	ug/l #	59
20) Methylene Chloride	5.098	84	19977	1.517	ug/l	91
25) 2-Butanone	7.340	43	12002	0.954	ug/l	99
29) Tetrahydrofuran	7.694	42	2342	0.304	ug/l #	74
30) Chloroform	8.070	83	158	Below Cal	#	18
31) Cyclohexane	8.086	56	23106	0.911	ug/l #	1
36) 1,1-Dichloropropene	8.086	75	82399	4.882	ug/l #	49
37) Ethyl Acetate	7.340	43	12002	0.536	ug/l #	68
38) Carbon Tetrachloride	8.086	117	104009	6.927	ug/l #	16
43) Isopropyl Acetate	8.560	43	115757	3.382	ug/l #	88
48) Methyl methacrylate	9.542	41	27381	1.679	ug/l #	9
51) 4-Methyl-2-Pentanone	10.328	43	17065	0.781	ug/l #	86
53) t-1,3-Dichloropropene	10.717	75	337	2.419	ug/l #	71
54) cis-1,3-Dichloropropene	10.239	75	167809	8.273	ug/l #	63
56) Ethyl methacrylate	10.757	69	567	2.325	ug/l #	24
57) 1,3-Dichloropropane	11.087	76	93166	4.282	ug/l #	43
59) 2-Hexanone	11.089	43	1561429	98.415	ug/l #	49
74) N-amyl acetate	12.388	43	5794	0.281	ug/l #	66
76) 1,2,3-Trichloropropane	12.728	75	355038	25.088	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.728	75	355038	74.742	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.263	180	3129	3.721	ug/l	90
95) Naphthalene	15.501	128	18576	5.554	ug/l	98
96) 1,2,3-Trichlorobenzene	15.694	180	3781	3.591	ug/l #	89

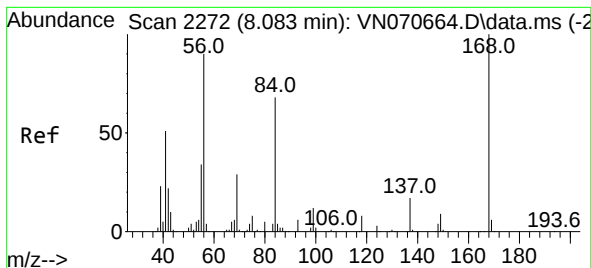
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.086 min Scan# 21

Delta R.T. 0.003 min

Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

Instrument :

MSVOA_N

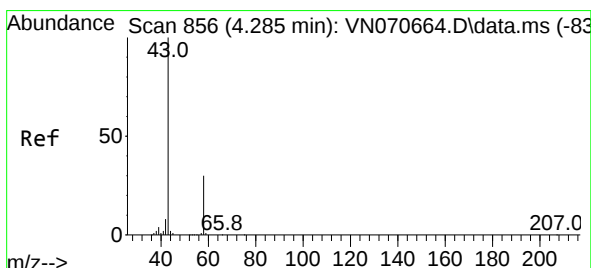
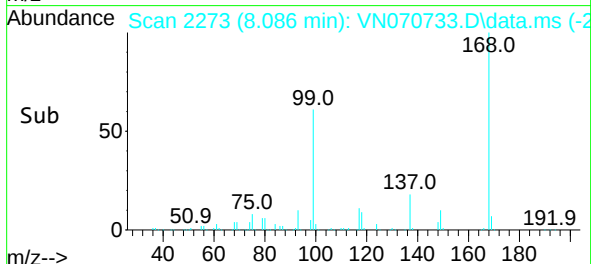
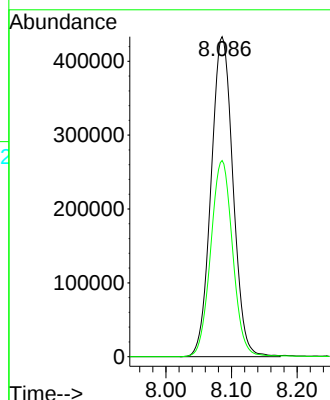
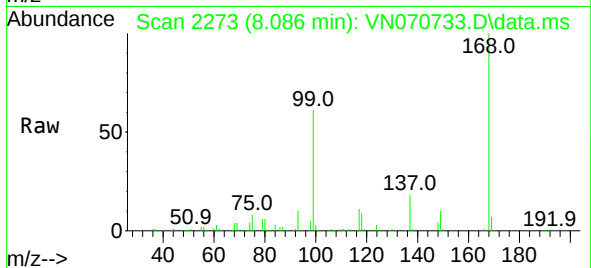
ClientSampleId :

Tgt Ion:168 Resp: 1004919

Ion Ratio Lower Upper

168 100

99 61.3 41.3 61.9



#16

Acetone

Concen: 7.616 ug/l

RT: 4.291 min Scan# 858

Delta R.T. 0.006 min

Lab File: VN070733.D

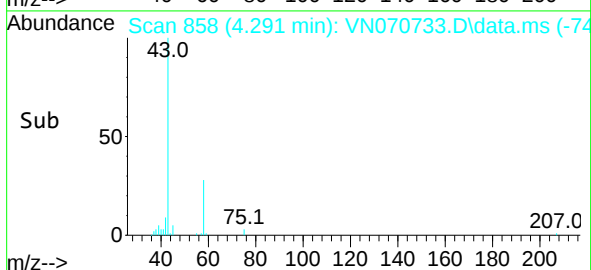
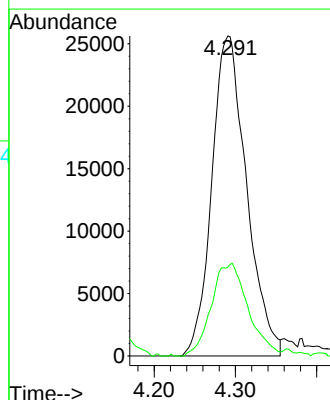
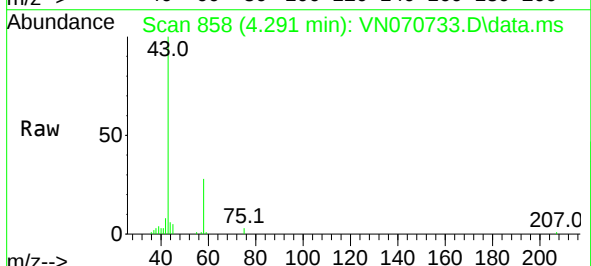
Acq: 21 Jan 2022 16:00

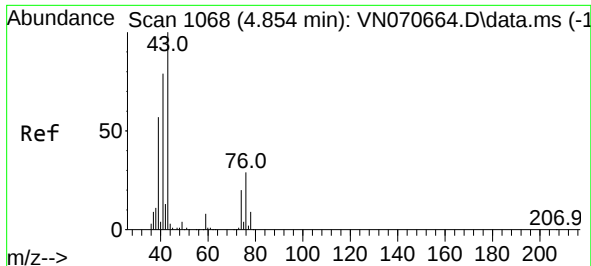
Tgt Ion: 43 Resp: 76135

Ion Ratio Lower Upper

43 100

58 27.7 23.1 34.7





#18

Methyl Acetate

Concen: 0.501 ug/l

RT: 4.867 min Scan# 1

Delta R.T. 0.013 min

Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

Instrument :

MSVOA_N

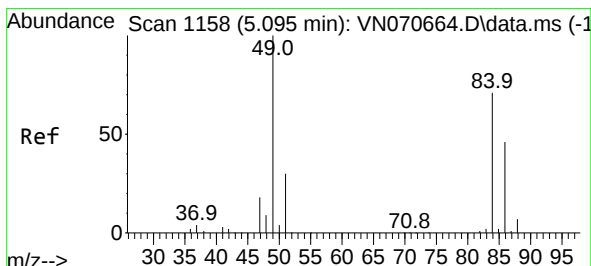
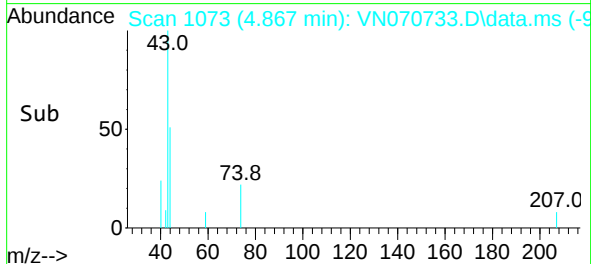
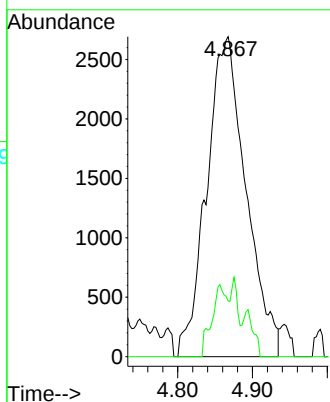
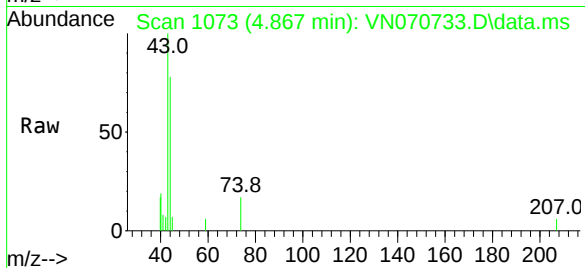
ClientSampleId :

Tgt Ion: 43 Resp: 9841

Ion Ratio Lower Upper

43 100

74 4.0 19.4 29.2#



#20

Methylene Chloride

Concen: 1.517 ug/l

RT: 5.098 min Scan# 1159

Delta R.T. 0.003 min

Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

Tgt Ion: 84 Resp: 19977

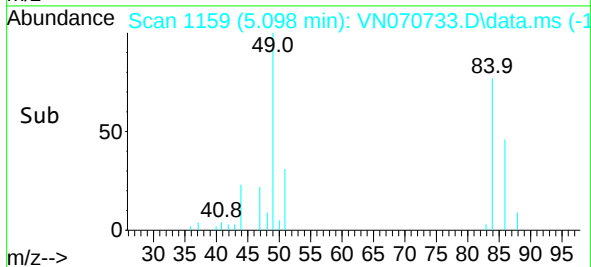
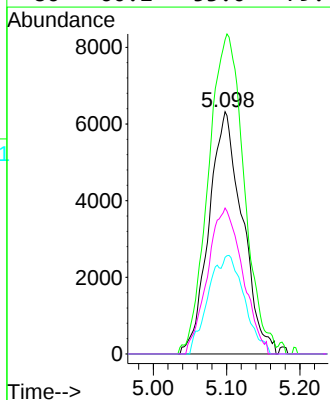
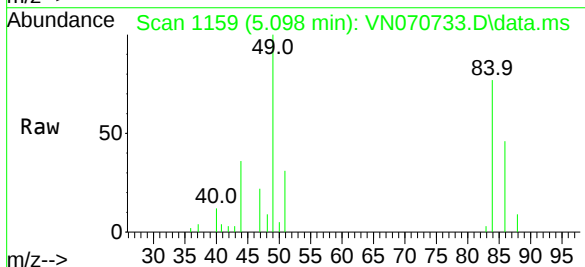
Ion Ratio Lower Upper

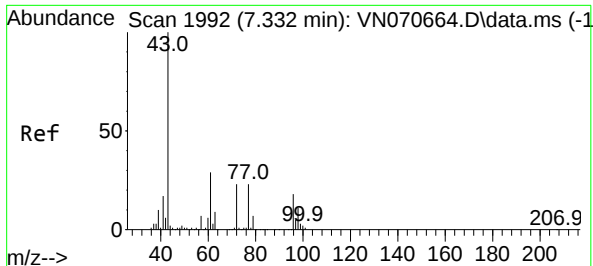
84 100

49 129.7 93.5 140.3

51 39.9 29.4 44.2

86 60.2 53.0 79.4





#25

2-Butanone

Concen: 0.954 ug/l

RT: 7.340 min Scan# 1992

Delta R.T. 0.008 min

Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

Instrument :

MSVOA_N

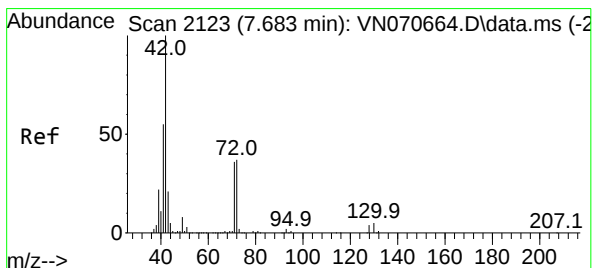
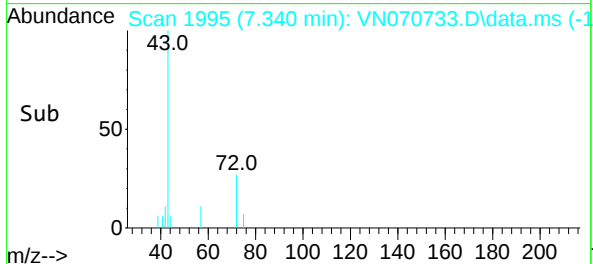
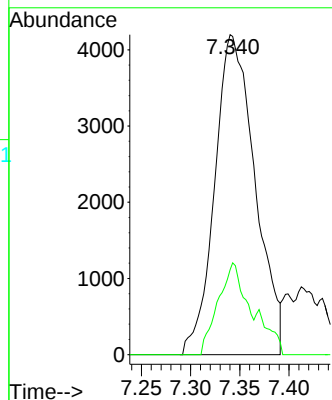
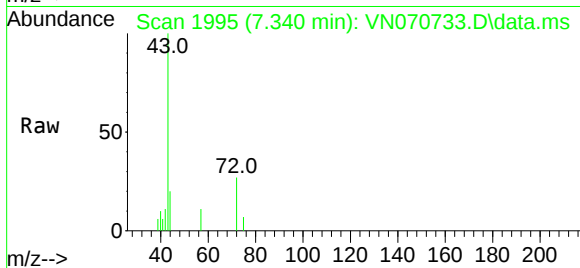
ClientSampleId :

Tgt Ion: 43 Resp: 12002

Ion Ratio Lower Upper

43 100

72 26.6 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.304 ug/l

RT: 7.694 min Scan# 2127

Delta R.T. 0.011 min

Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

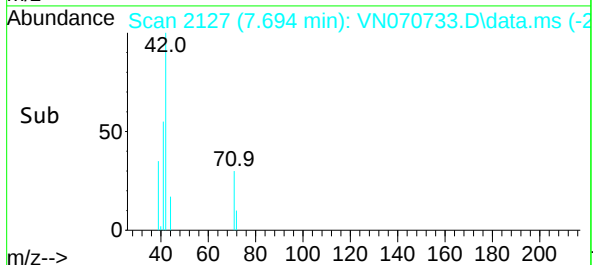
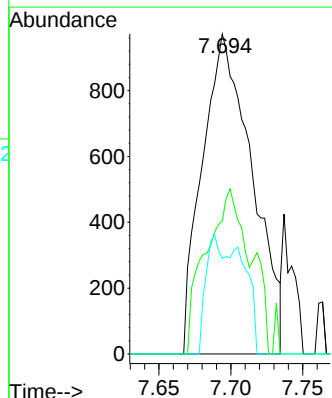
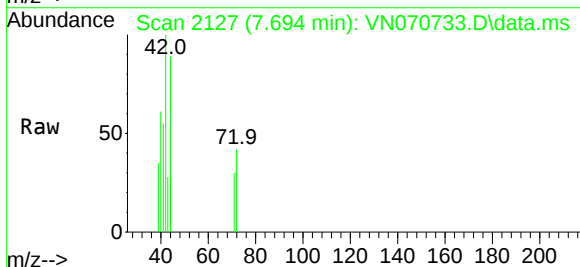
Tgt Ion: 42 Resp: 2342

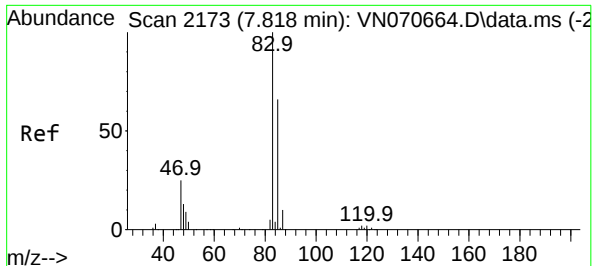
Ion Ratio Lower Upper

42 100

72 38.6 36.3 54.5

71 16.0 34.7 52.1#

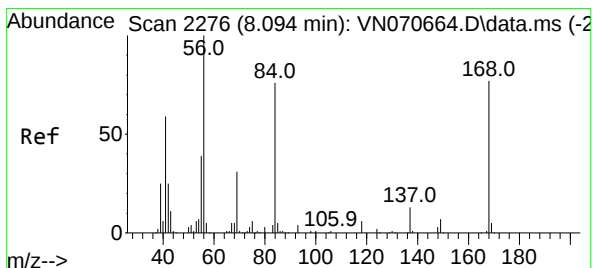
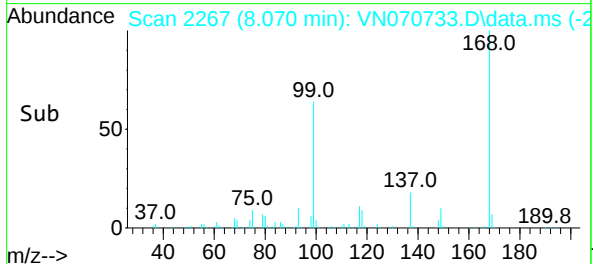
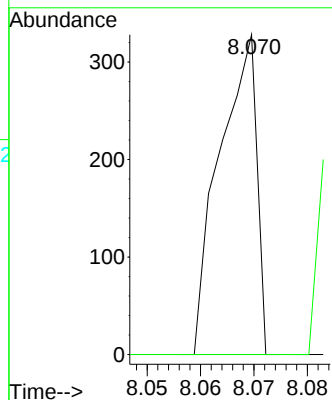
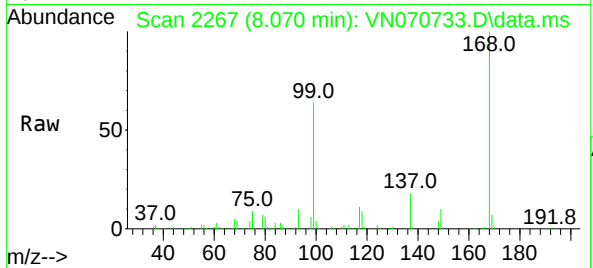




#30
Chloroform
Concen: Below Cal
RT: 8.070 min Scan# 2173
Delta R.T. 0.252 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

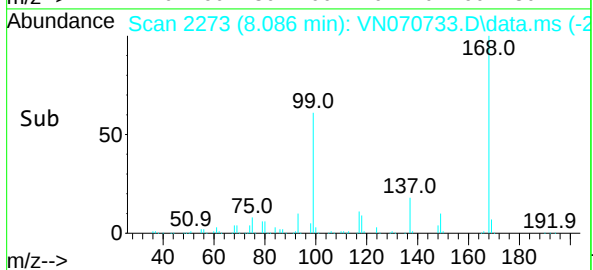
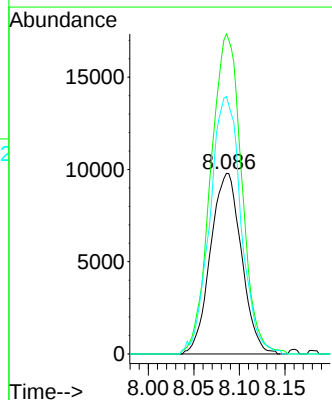
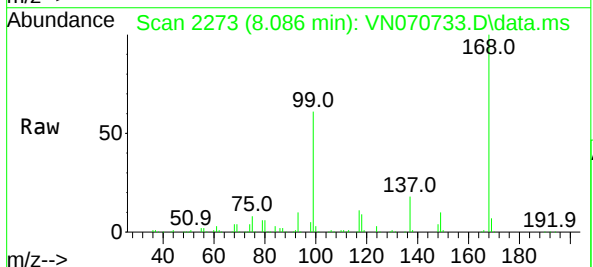
Instrument :
MSVOA_N
ClientSampleId :

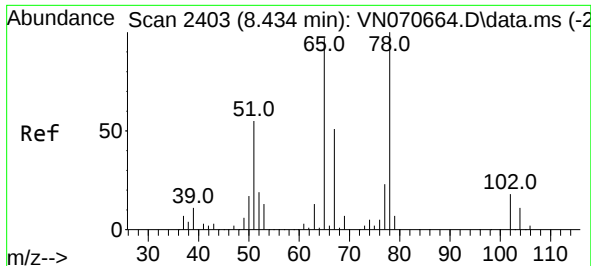
Tgt Ion: 83 Resp: 158
Ion Ratio Lower Upper
83 100
85 0.0 51.9 77.9#



#31
Cyclohexane
Concen: 0.911 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Tgt Ion: 56 Resp: 23106
Ion Ratio Lower Upper
56 100
69 177.2 27.1 40.7#
84 142.6 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 46.699 ug/l

RT: 8.437 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

Instrument :

MSVOA_N

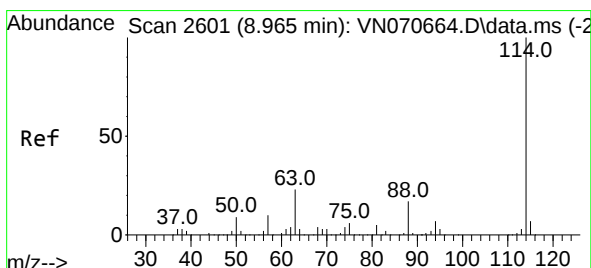
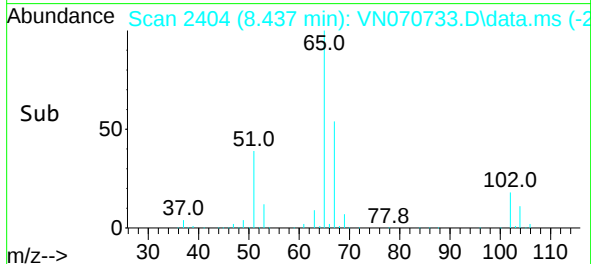
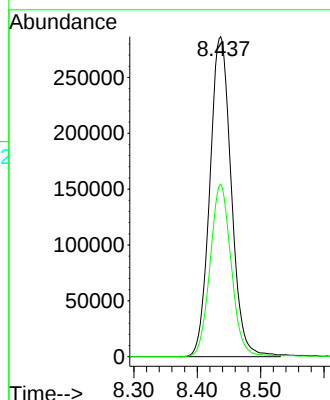
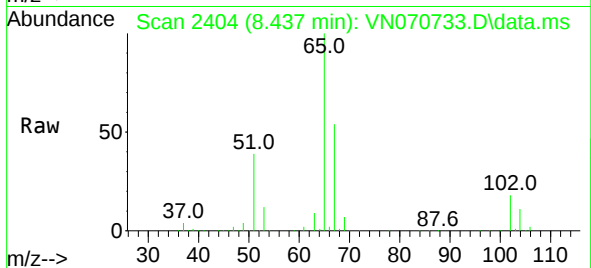
ClientSampleId :

Tgt Ion: 65 Resp: 672560

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.003 min

Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

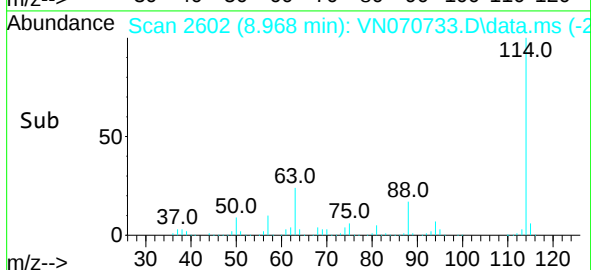
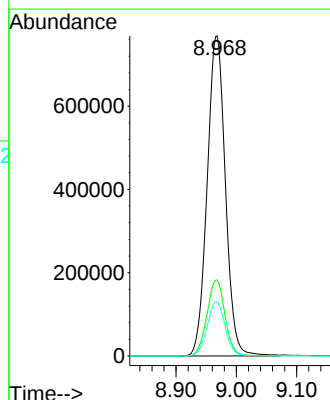
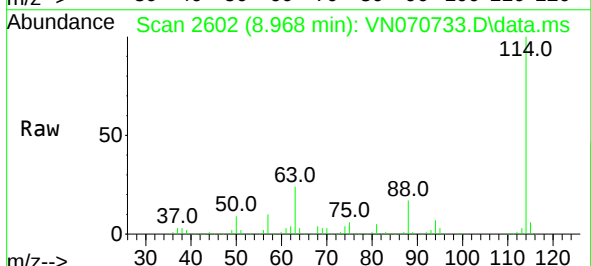
Tgt Ion: 114 Resp: 1616322

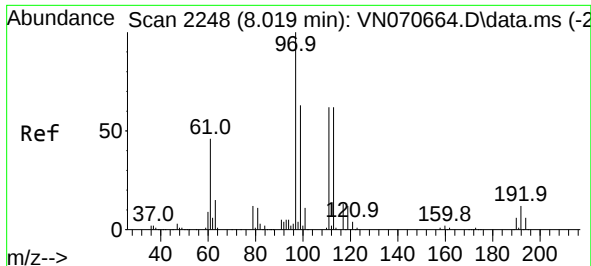
Ion Ratio Lower Upper

114 100

63 23.7 0.0 37.8

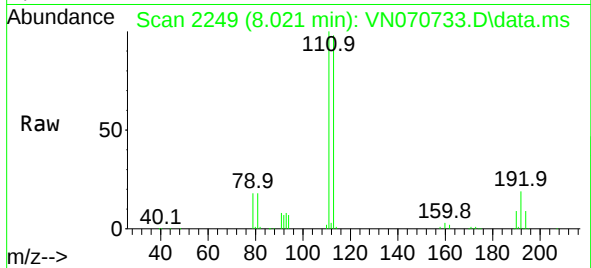
88 16.9 0.0 27.4



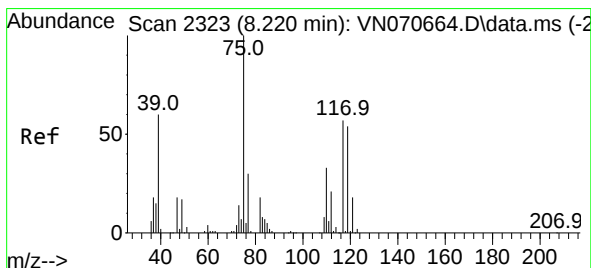
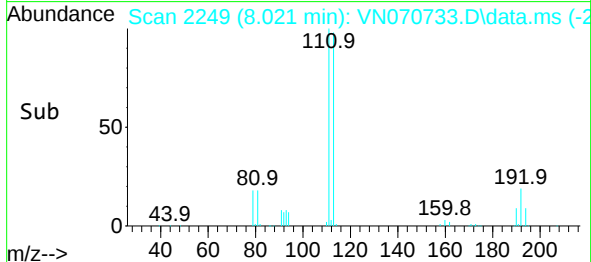
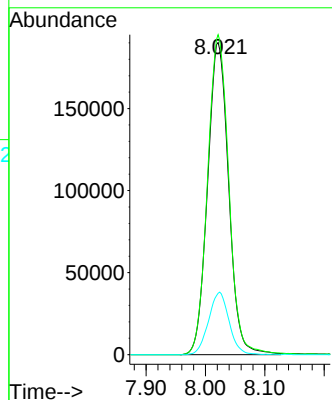


#35
Dibromofluoromethane
Concen: 46.826 ug/l
RT: 8.021 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Instrument :
MSVOA_N
ClientSampleId :

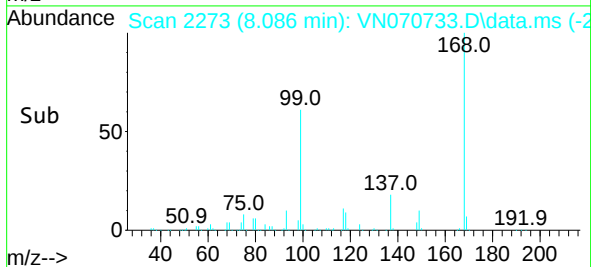
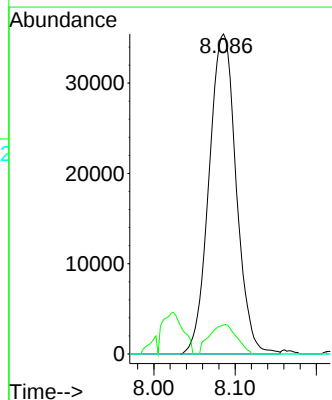
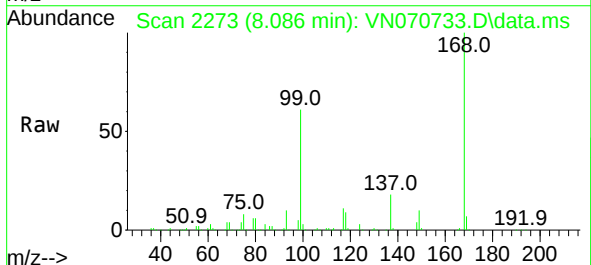


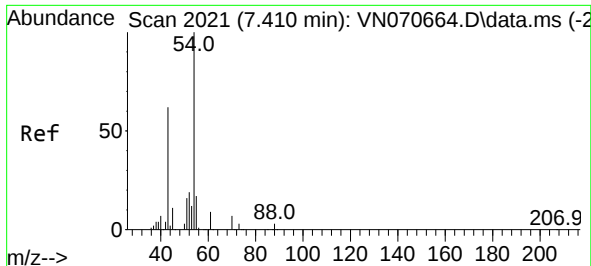
Tgt Ion:113 Resp: 469484
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 19.5 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.882 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.134 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Tgt Ion: 75 Resp: 82399
Ion Ratio Lower Upper
75 100
110 9.1 18.4 55.2#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.536 ug/l

RT: 7.340 min Scan# 1995

Delta R.T. -0.070 min

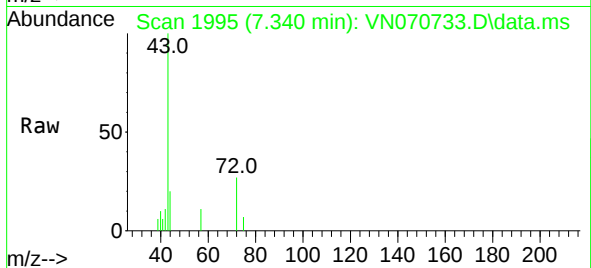
Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

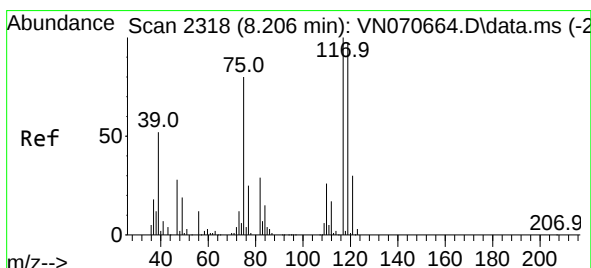
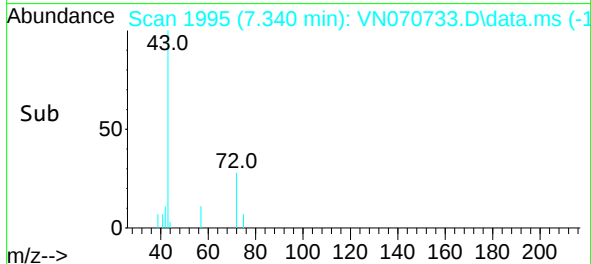
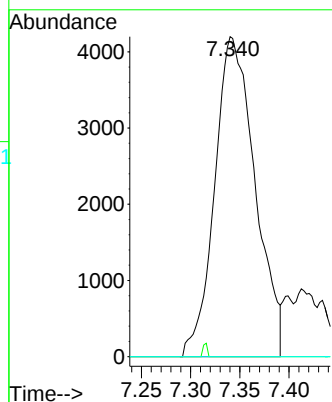
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	12002
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.0	7.9	11.9#



#38

Carbon Tetrachloride

Concen: 6.927 ug/l

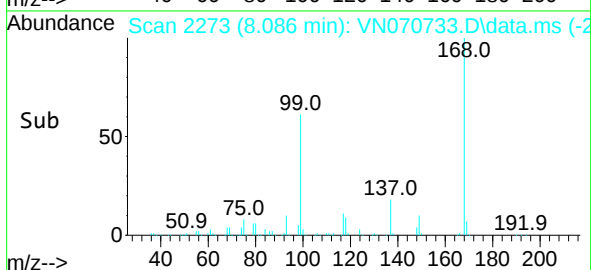
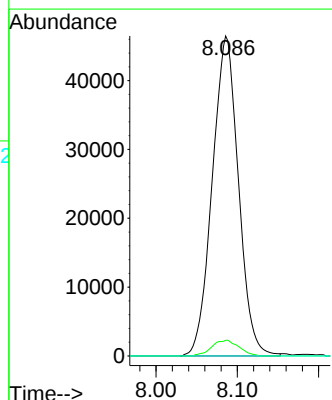
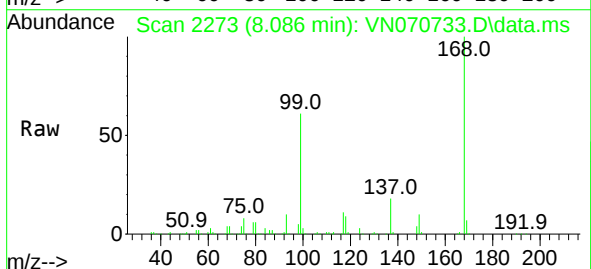
RT: 8.086 min Scan# 2273

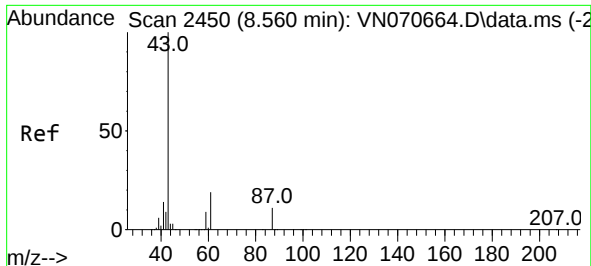
Delta R.T. -0.120 min

Lab File: VN070733.D

Acq: 21 Jan 2022 16:00

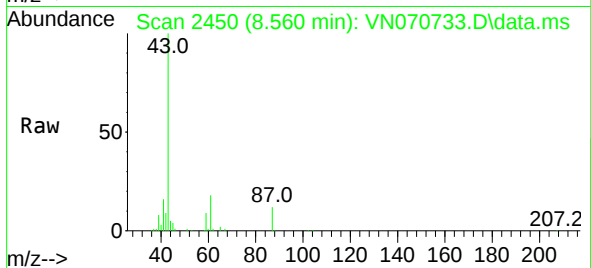
Tgt Ion:	117	Resp:	104009
Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.1	114.1#
121	0.0	24.2	36.2#



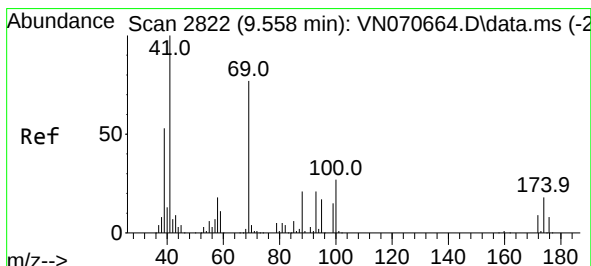
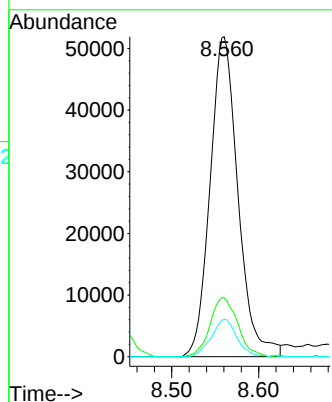
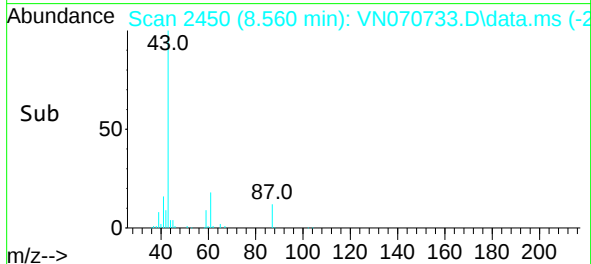


#43
Isopropyl Acetate
Concen: 3.382 ug/l
RT: 8.560 min Scan# 2450
Delta R.T. 0.000 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Instrument :
MSVOA_N
ClientSampleId :

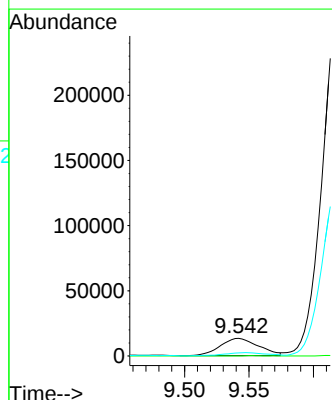
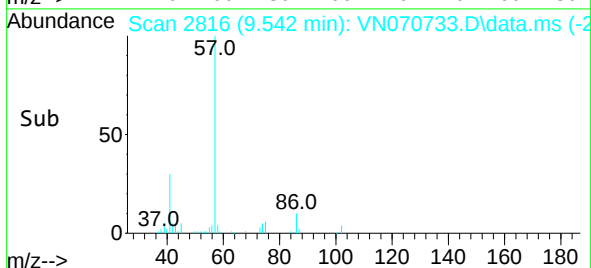
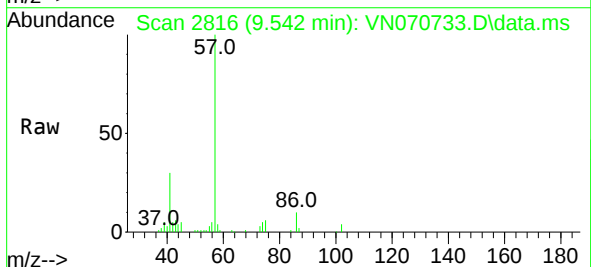


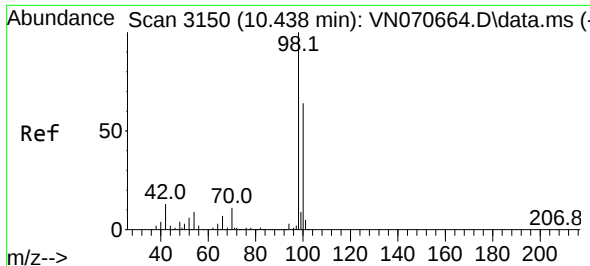
Tgt Ion: 43 Resp: 115757
Ion Ratio Lower Upper
43 100
61 18.3 20.4 30.6#
87 10.7 11.2 16.8#



#48
Methyl methacrylate
Concen: 1.679 ug/l
RT: 9.542 min Scan# 2816
Delta R.T. -0.016 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Tgt Ion: 41 Resp: 27381
Ion Ratio Lower Upper
41 100
69 0.6 72.4 108.6#
39 0.0 58.4 87.6#

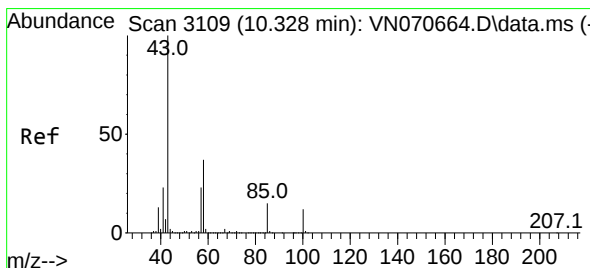
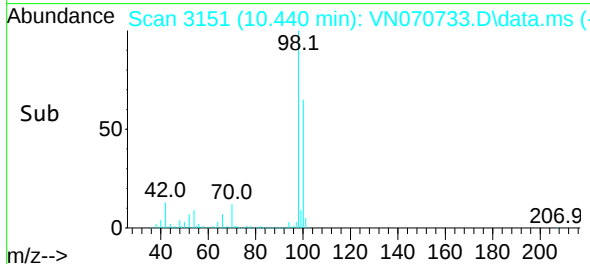
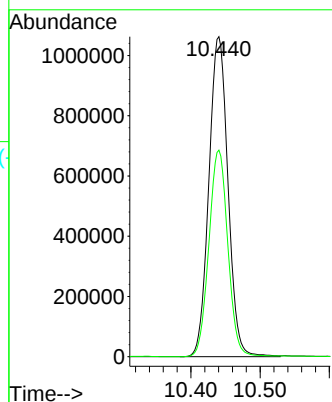
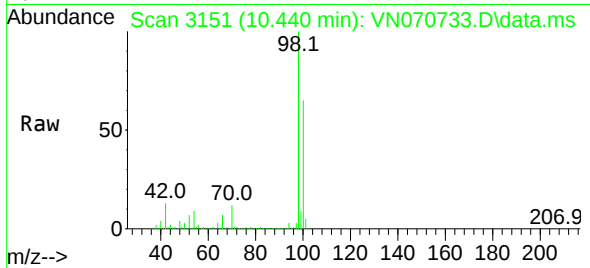




#50
Toluene-d8
Concen: 48.171 ug/l
RT: 10.440 min Scan# 3150
Delta R.T. 0.002 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

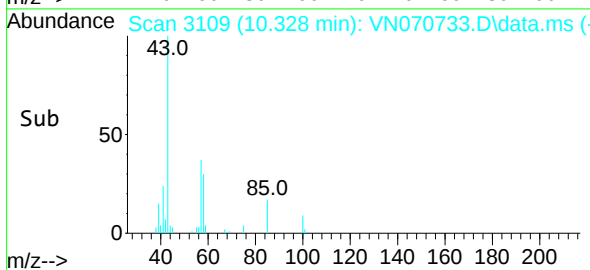
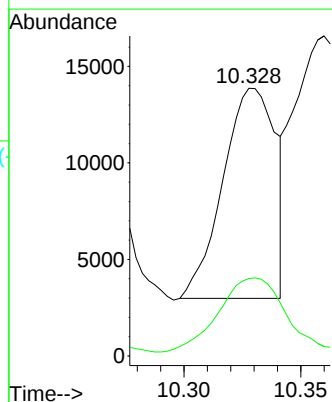
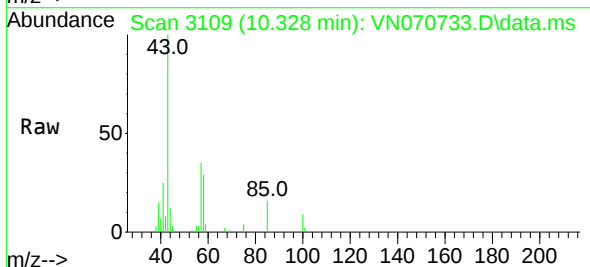
Instrument :
MSVOA_N
ClientSampleId :

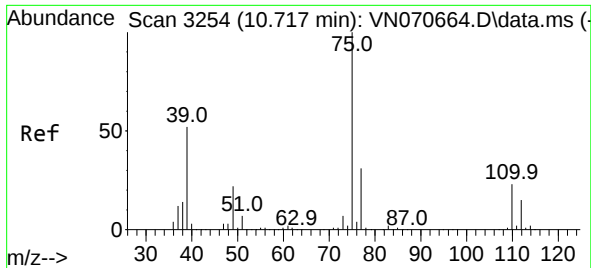
Tgt Ion: 98 Resp: 2034597
Ion Ratio Lower Upper
98 100
100 64.2 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.781 ug/l
RT: 10.328 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Tgt Ion: 43 Resp: 17065
Ion Ratio Lower Upper
43 100
58 46.2 30.4 45.6#

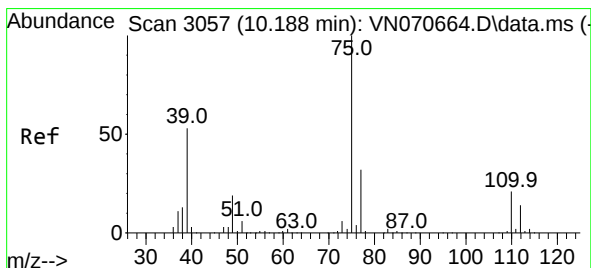
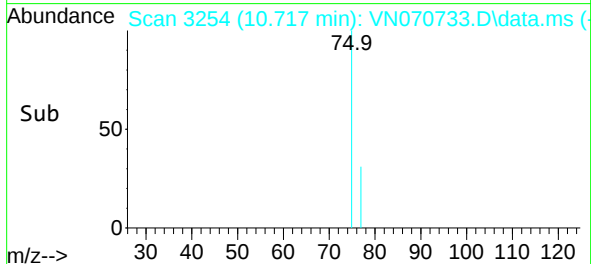
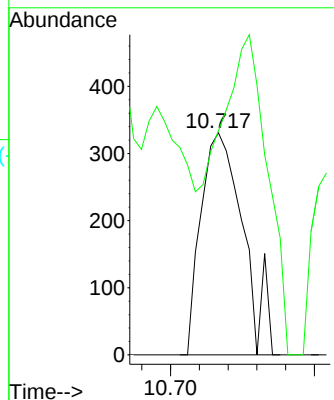
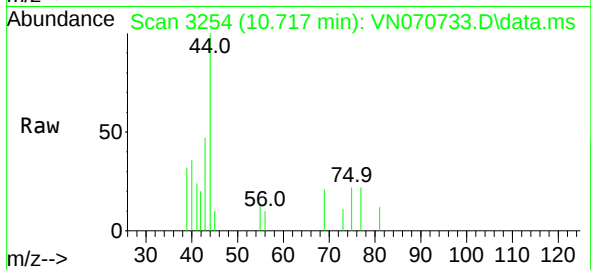




#53
 t-1,3-Dichloropropene
 Concen: 2.419 ug/l
 RT: 10.717 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VN070733.D
 Acq: 21 Jan 2022 16:00

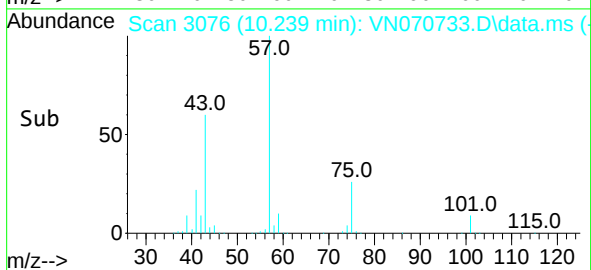
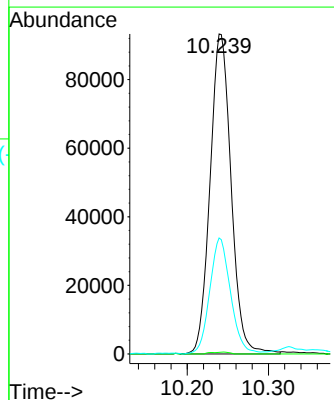
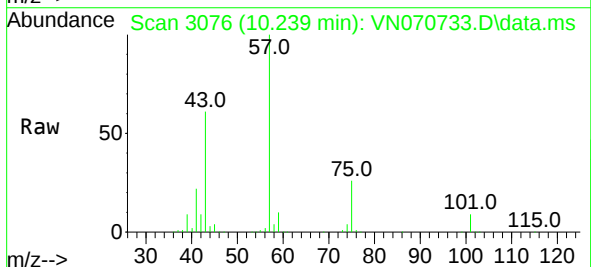
Instrument :
 MSVOA_N
 ClientSampleId :

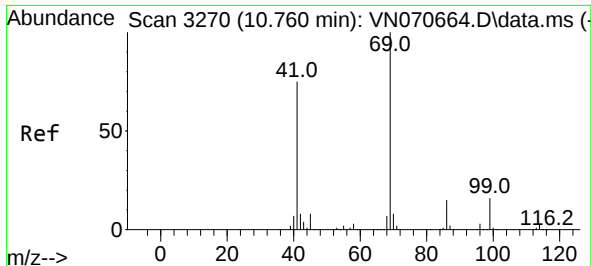
Tgt Ion: 75 Resp: 337
 Ion Ratio Lower Upper
 75 100
 77 48.3 25.6 38.4#



#54
 cis-1,3-Dichloropropene
 Concen: 8.273 ug/l
 RT: 10.239 min Scan# 3076
 Delta R.T. 0.051 min
 Lab File: VN070733.D
 Acq: 21 Jan 2022 16:00

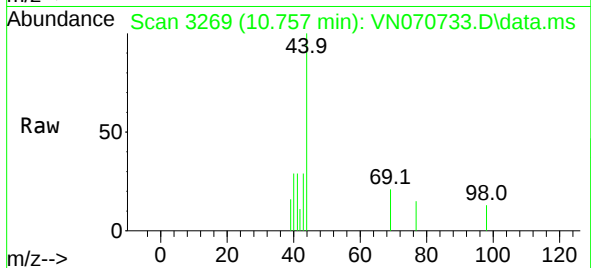
Tgt Ion: 75 Resp: 167809
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.4 39.6#
 39 36.1 42.5 63.7#



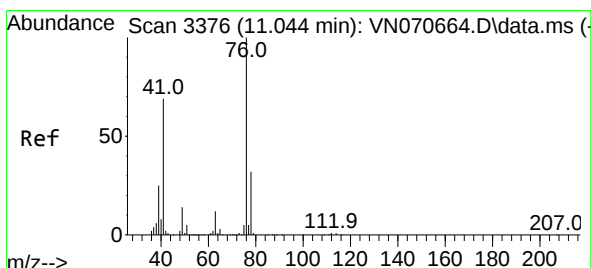
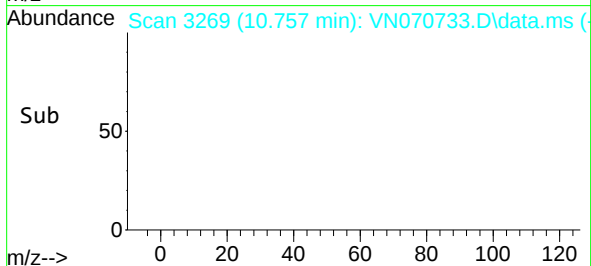
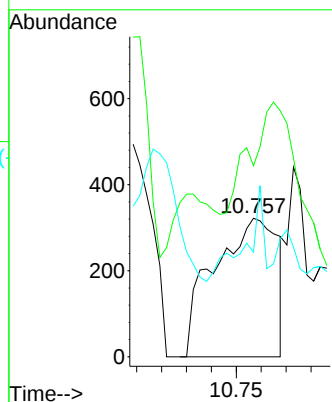


#56
Ethyl methacrylate
Concen: 2.325 ug/l
RT: 10.757 min Scan# 31
Delta R.T. -0.003 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Instrument :
MSVOA_N
ClientSampleId :

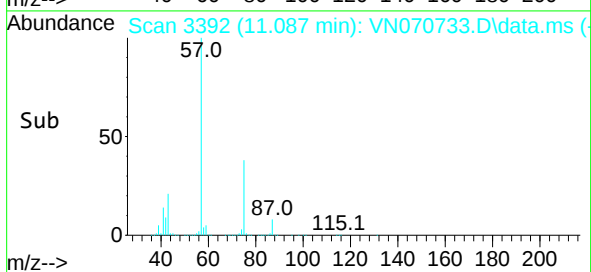
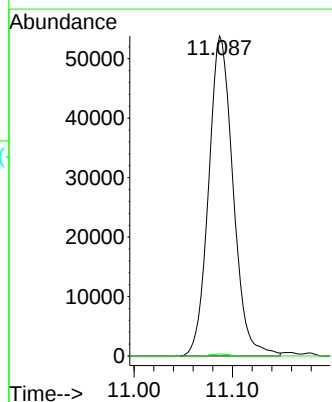
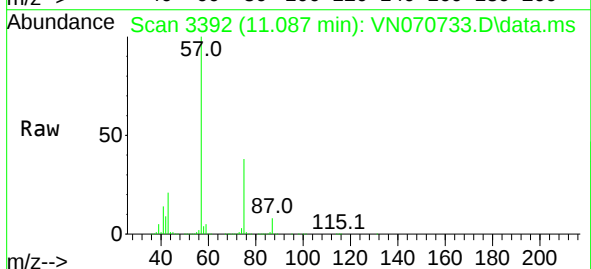


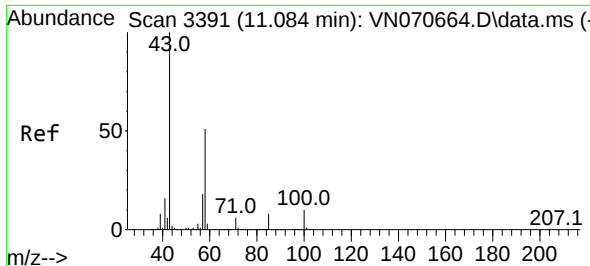
Tgt Ion: 69 Resp: 567
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 0.0 34.6 52.0#



#57
1,3-Dichloropropane
Concen: 4.282 ug/l
RT: 11.087 min Scan# 3392
Delta R.T. 0.043 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Tgt Ion: 76 Resp: 93166
Ion Ratio Lower Upper
76 100
78 0.4 25.7 38.5#

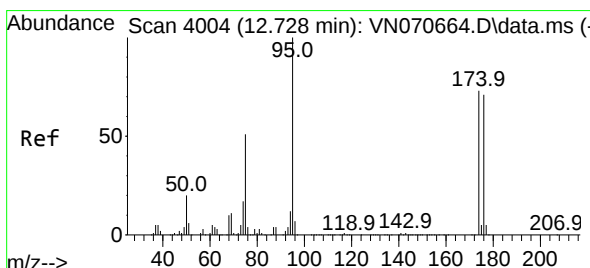
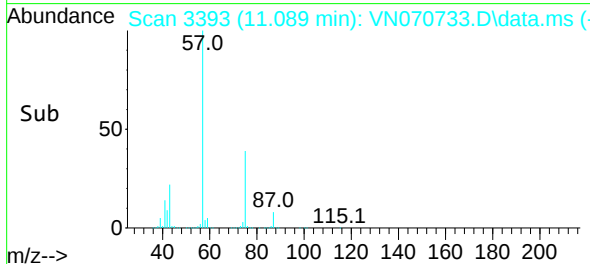
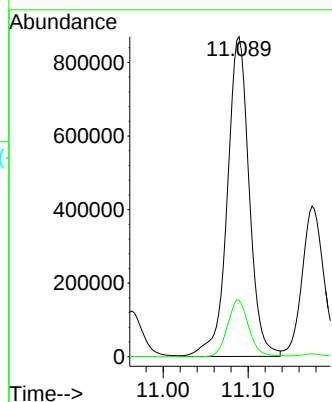
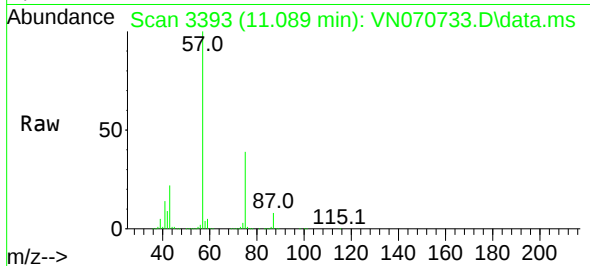




#59
2-Hexanone
Concen: 98.415 ug/l
RT: 11.089 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

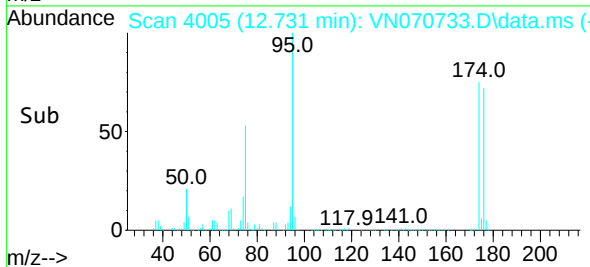
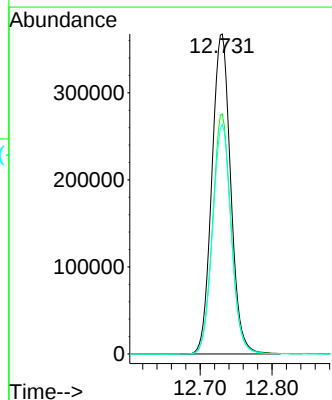
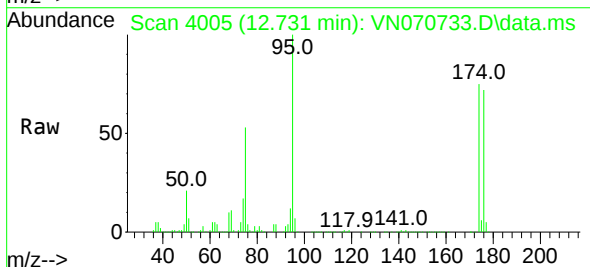
Instrument :
MSVOA_N
ClientSampleId :

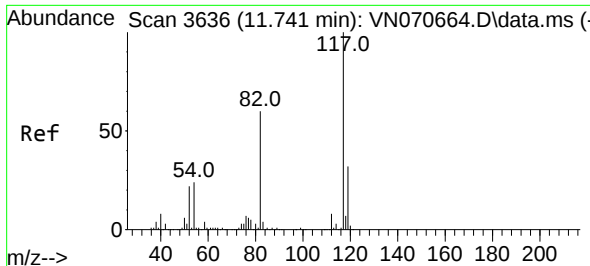
Tgt Ion: 43 Resp: 1561429
Ion Ratio Lower Upper
43 100
58 17.2 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 44.429 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.003 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

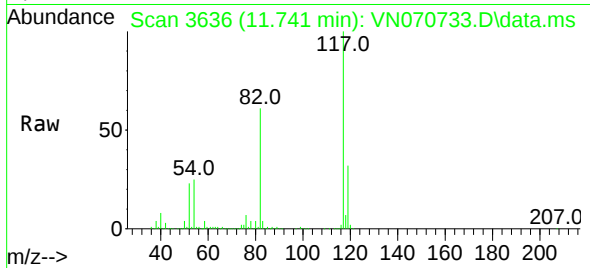
Tgt Ion: 95 Resp: 668708
Ion Ratio Lower Upper
95 100
174 73.6 0.0 187.2
176 71.1 0.0 181.4





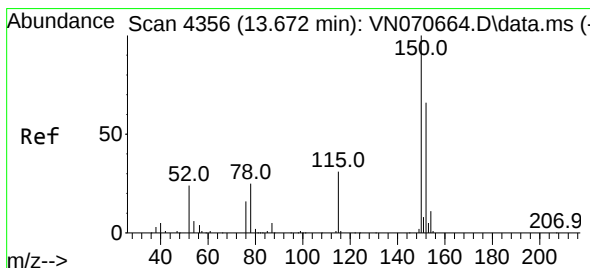
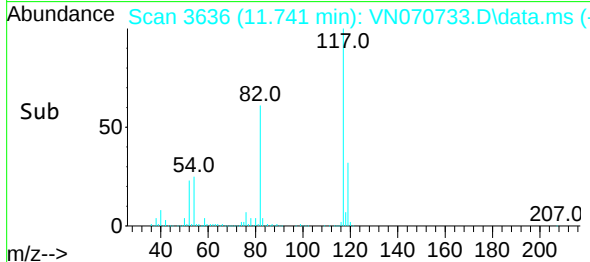
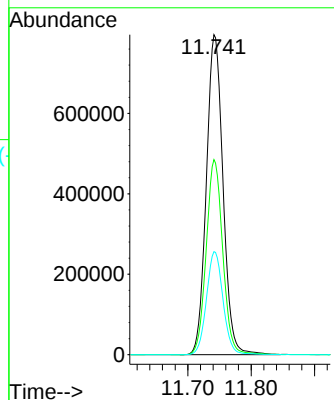
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.741 min Scan# 3636
Delta R.T. 0.000 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:117 Resp: 1453922

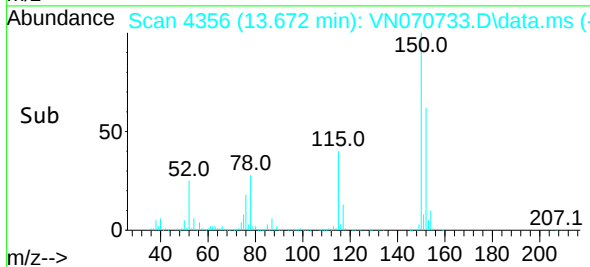
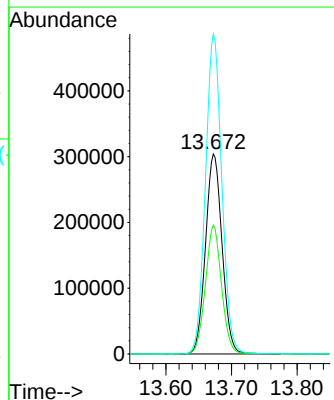
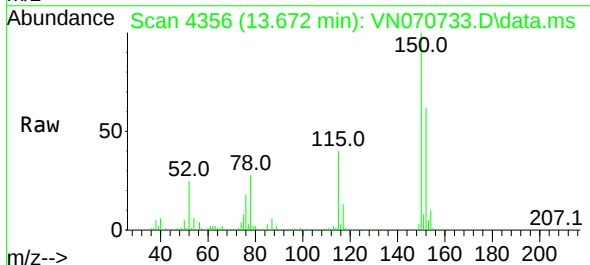
Ion	Ratio	Lower	Upper
117	100		
82	60.9	42.4	63.6
119	32.2	25.4	38.2

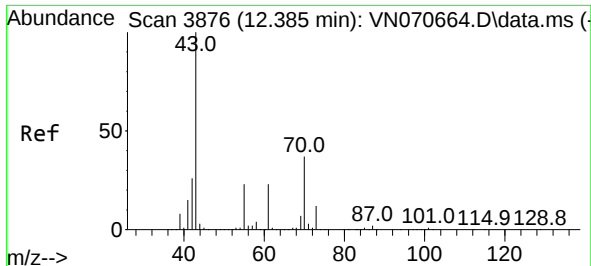


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.672 min Scan# 4356
Delta R.T. 0.000 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Tgt Ion:152 Resp: 533569

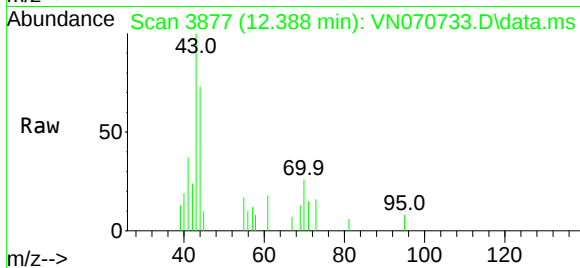
Ion	Ratio	Lower	Upper
152	100		
115	62.5	27.5	82.5
150	157.5	0.0	344.4



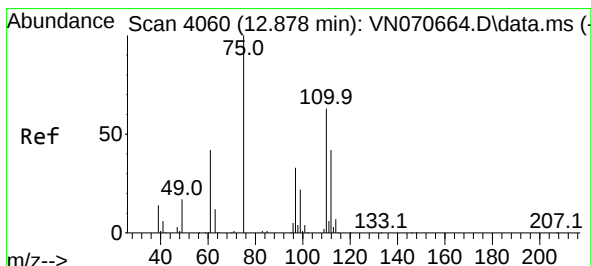
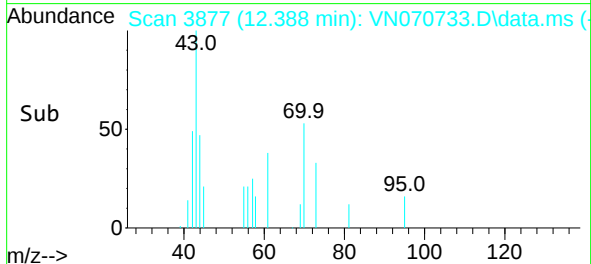
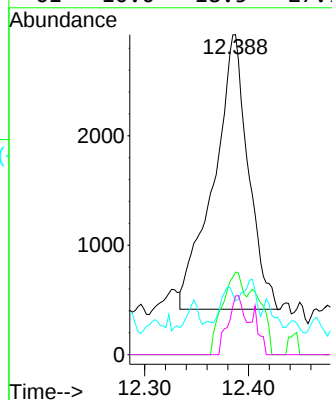


#74
N-amy1 acetate
Concen: 0.281 ug/l
RT: 12.388 min Scan# 3876
Delta R.T. 0.003 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Instrument :
MSVOA_N
ClientSampleId :

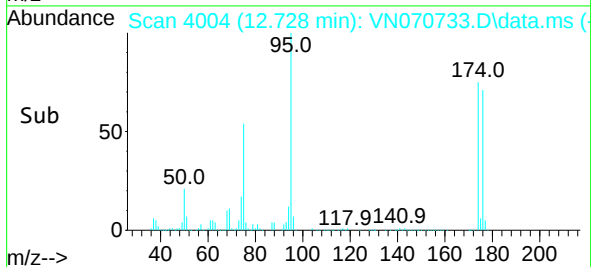
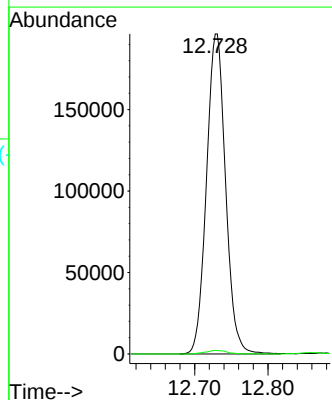
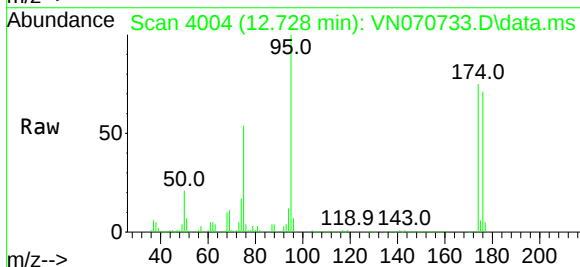


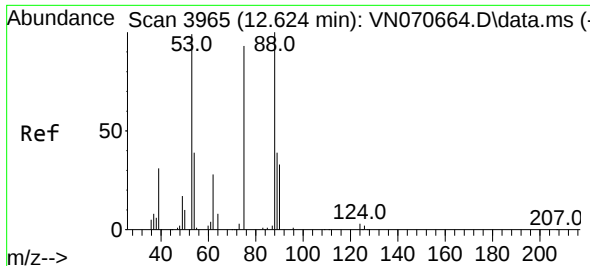
Tgt Ion:	43	Resp:	5794
Ion	Ratio	Lower	Upper
43	100		
70	19.5	33.4	50.0#
55	4.9	19.3	28.9#
61	10.0	18.5	27.7#



#76
1,2,3-Trichloropropane
Concen: 25.088 ug/l
RT: 12.728 min Scan# 4004
Delta R.T. -0.150 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

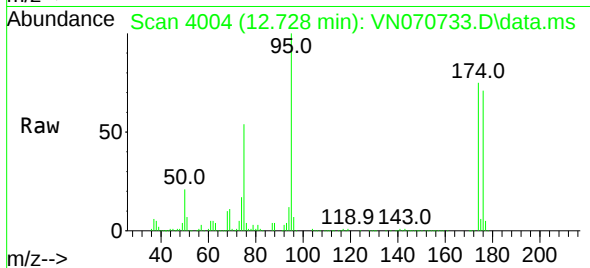
Tgt Ion:	75	Resp:	355038
Ion	Ratio	Lower	Upper
75	100		
77	1.2	82.6	247.8#



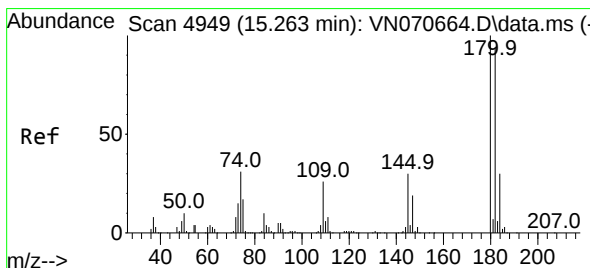
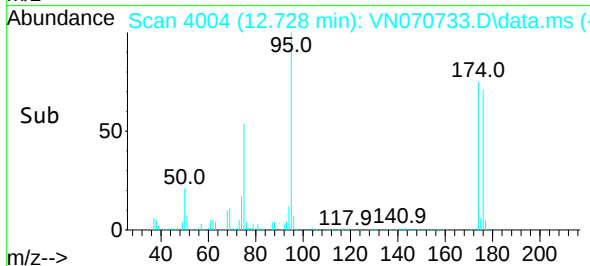
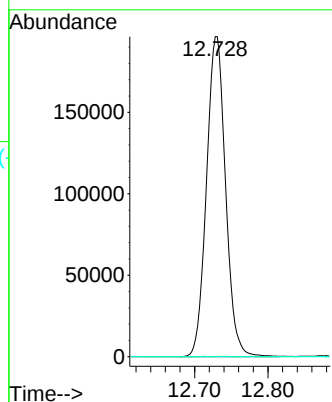


#81
trans-1,4-Dichloro-2-butene
Concen: 74.742 ug/l
RT: 12.728 min Scan# 4004
Delta R.T. 0.104 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Instrument :
MSVOA_N
ClientSampleId :

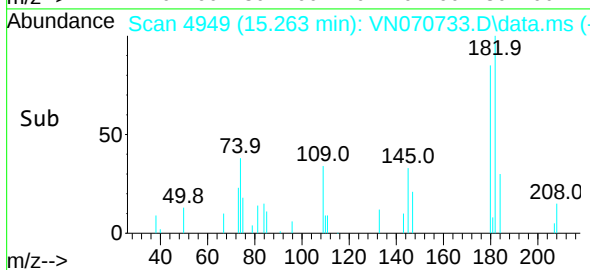
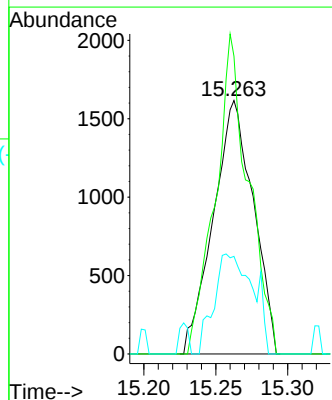
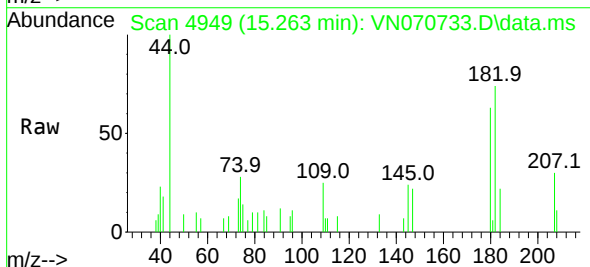


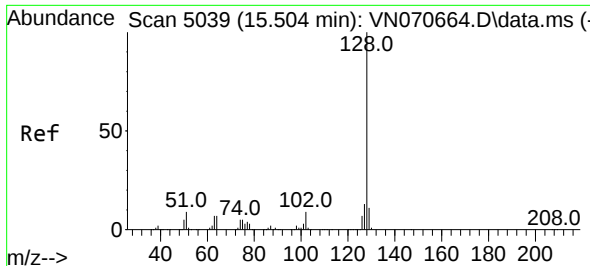
Tgt Ion: 75 Resp: 355038
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 3.721 ug/l
RT: 15.263 min Scan# 4949
Delta R.T. -0.000 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Tgt Ion:180 Resp: 3129
Ion Ratio Lower Upper
180 100
182 104.7 48.3 144.9
145 38.4 14.5 43.5

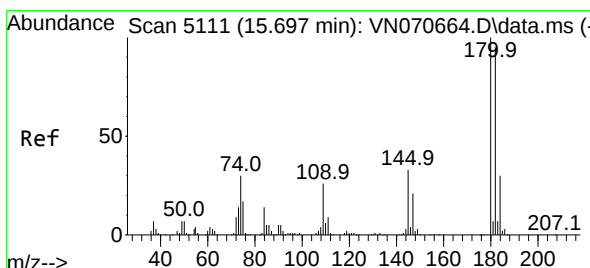
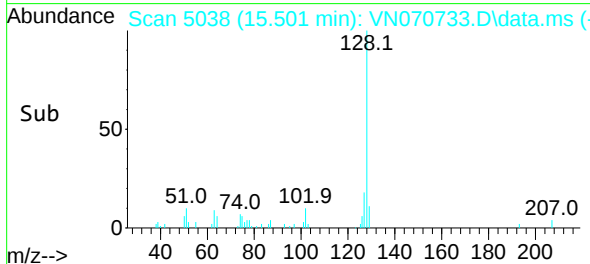
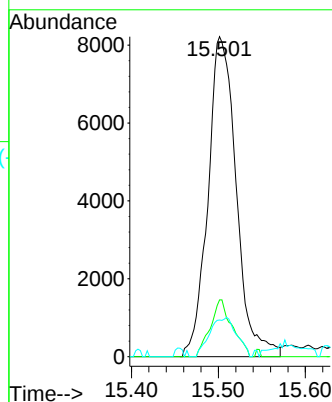
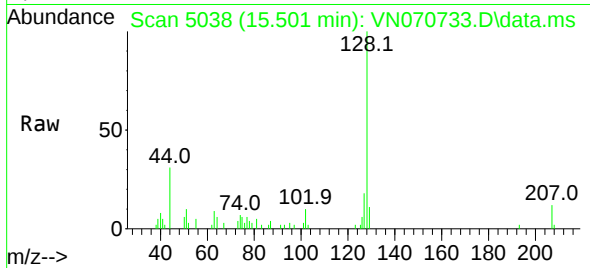




#95
Naphthalene
Concen: 5.554 ug/l
RT: 15.501 min Scan# 5039
Delta R.T. -0.003 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 18576
Ion Ratio Lower Upper
128 100
127 13.8 10.5 15.7
129 11.7 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 3.591 ug/l
RT: 15.694 min Scan# 5110
Delta R.T. -0.003 min
Lab File: VN070733.D
Acq: 21 Jan 2022 16:00

Tgt Ion:180 Resp: 3781
Ion Ratio Lower Upper
180 100
182 90.3 47.4 142.2
145 47.1 15.0 45.1#

