

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111821\
 Data File : VN069558.D
 Acq On : 18 Nov 2021 17:25
 Operator : JC/MD
 Sample : M4739-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 19 03:19:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 09 18:18:22 2021
 Response via : Initial Calibration

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

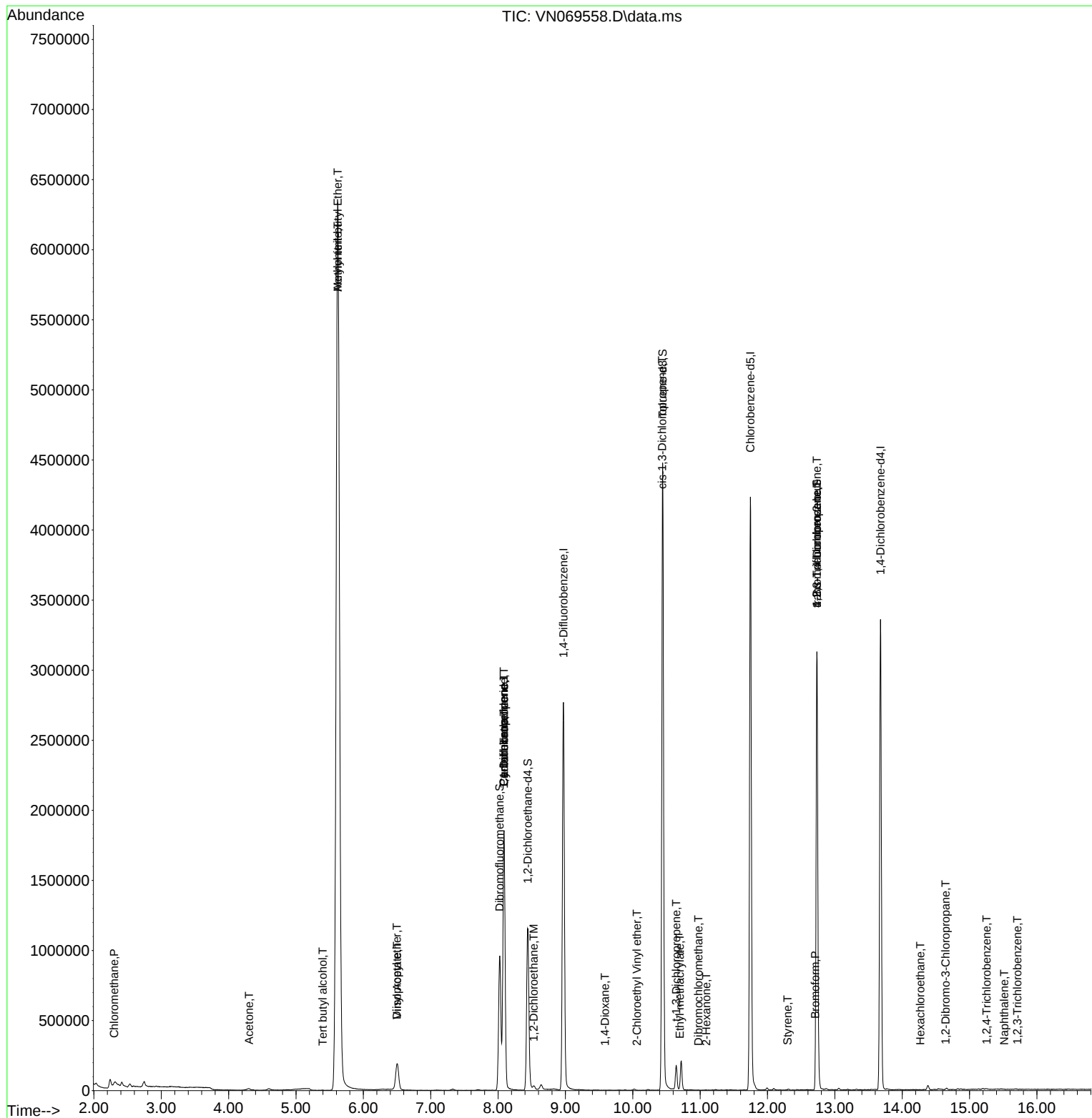
Internal Standards						
1) Pentafluorobenzene	8.088	168	1366934	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	2374098	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	2382935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	890291	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1017364	51.331	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 102.660%	
35) Dibromofluoromethane	8.024	113	695472	48.843	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 97.680%	
50) Toluene-d8	10.443	98	3035179	54.199	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 108.400%	
62) 4-Bromofluorobenzene	12.733	95	1083631	52.673	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 105.340%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.300	50	3694	0.218	ug/l	99
11) Tert butyl alcohol	5.395	59	930	0.260	ug/l #	71
13) Acrolein	4.055	56	508	Below Cal	#	32
15) Acrylonitrile	5.618	53	124689	13.633	ug/l #	18
16) Acetone	4.301	43	16627	1.555	ug/l #	86
19) Methyl tert-butyl Ether	5.621	73	9946161	212.130	ug/l	96
22) Diisopropyl ether	6.498	45	240667	4.561	ug/l	91
23) Vinyl Acetate	6.500	43	138577	3.396	ug/l #	72
31) Cyclohexane	8.088	56	35644	1.316	ug/l #	31
36) 1,1-Dichloropropene	8.085	75	119166	5.965	ug/l #	49
38) Carbon Tetrachloride	8.088	117	141563	7.340	ug/l #	16
42) 1,2-Dichloroethane	8.531	62	20039	0.830	ug/l	84
49) 1,4-Dioxane	9.587	88	29	39.128	ug/l #	1
53) t-1,3-Dichloropropene	10.647	75	25	2.638	ug/l #	43
54) cis-1,3-Dichloropropene	10.438	75	758	1.760	ug/l #	1
56) Ethyl methacrylate	10.698	69	92	2.056	ug/l #	24
58) 2-Chloroethyl Vinyl ether	10.062	63	88	22.781	ug/l #	45
59) 2-Hexanone	11.092	43	482	7.961	ug/l	97
60) Dibromochloromethane	10.974	129	66	2.421	ug/l #	11
70) Styrene	12.299	104	83	1.522	ug/l #	72
71) Bromoform	12.707	173	85	3.434	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	603858	29.391	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	603858	83.148	ug/l #	5
90) Hexachloroethane	14.270	117	27	2.165	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.643	75	25	1.802	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.252	180	54	3.117	ug/l #	1
95) Naphthalene	15.515	128	1629	4.489	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.710	180	306	3.191	ug/l #	85

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

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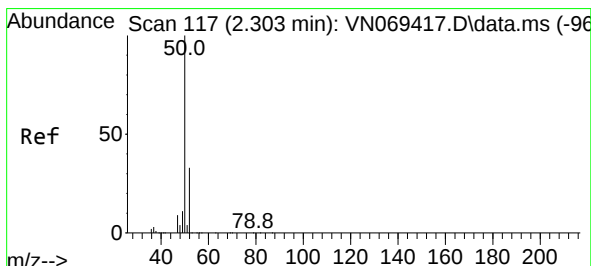
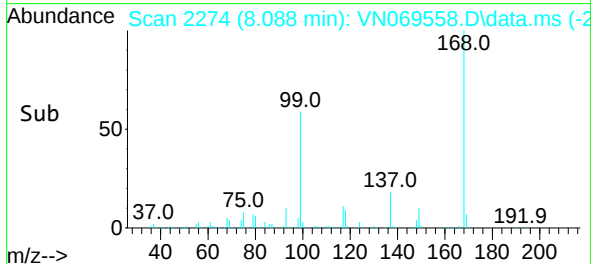
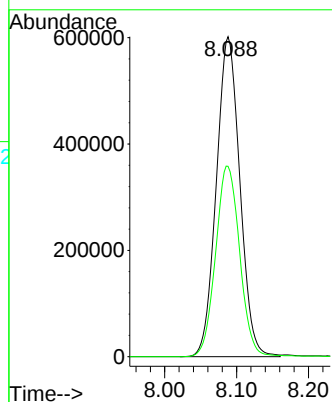
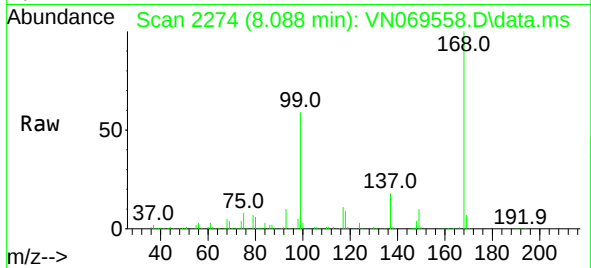




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

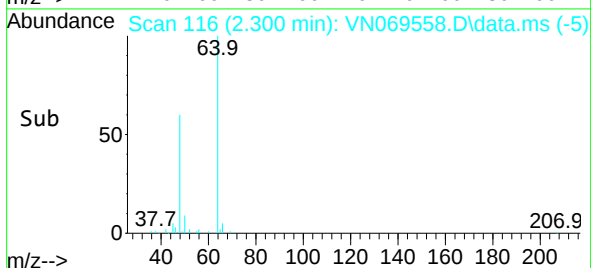
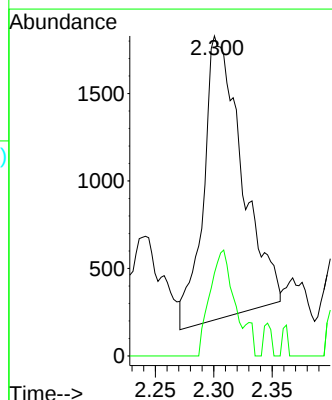
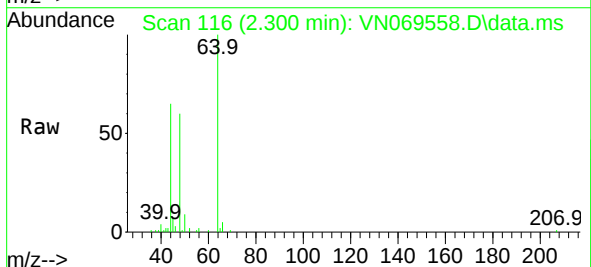
Instrument :
MSVOA_N
ClientSampleId :

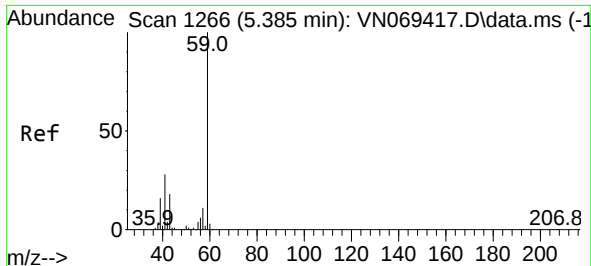
Tgt Ion:168 Resp: 1366934
Ion Ratio Lower Upper
168 100
99 59.5 41.3 61.9



#3
Chloromethane
Concen: 0.218 ug/l
RT: 2.300 min Scan# 116
Delta R.T. -0.003 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

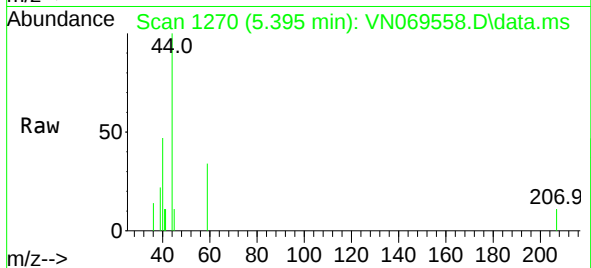
Tgt Ion: 50 Resp: 3694
Ion Ratio Lower Upper
50 100
52 31.2 25.4 38.0



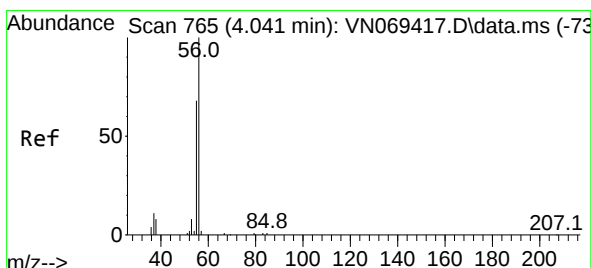
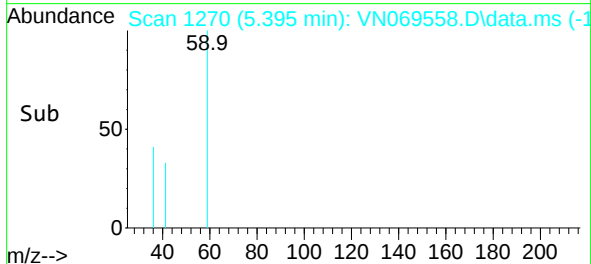
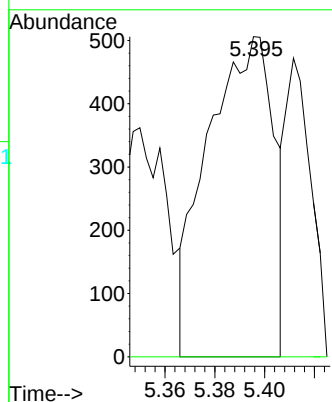


#11
Tert butyl alcohol
Concen: 0.260 ug/l
RT: 5.395 min Scan# 11
Delta R.T. 0.010 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Instrument :
MSVOA_N
ClientSampleId :

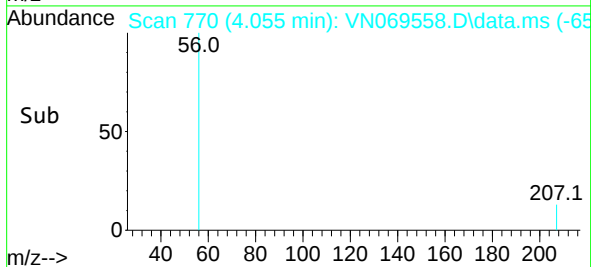
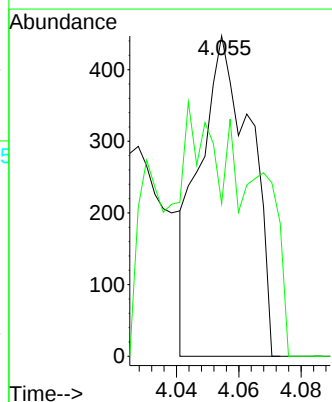
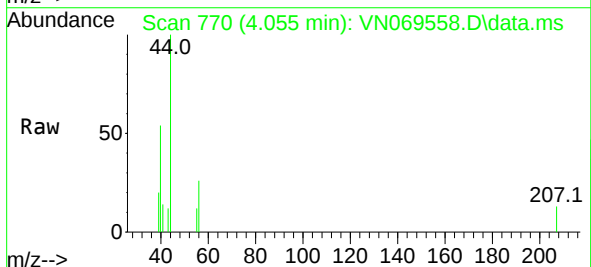


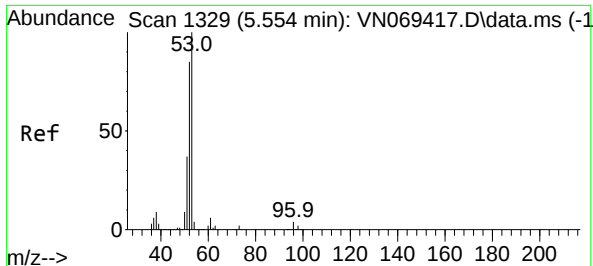
Tgt Ion: 59 Resp: 930
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: Below Cal
RT: 4.055 min Scan# 770
Delta R.T. 0.013 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

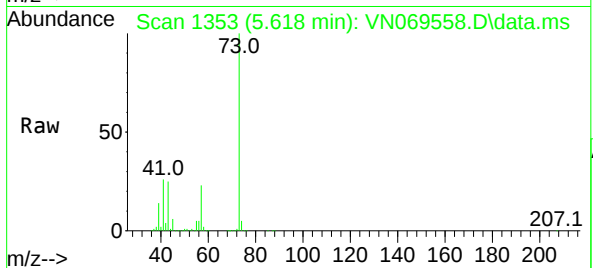
Tgt Ion: 56 Resp: 508
Ion Ratio Lower Upper
56 100
55 14.4 56.6 85.0#



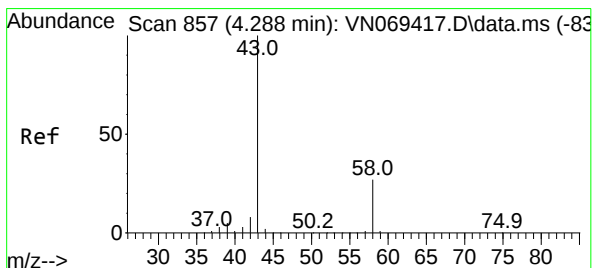
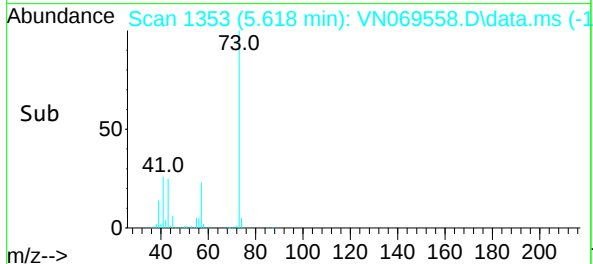
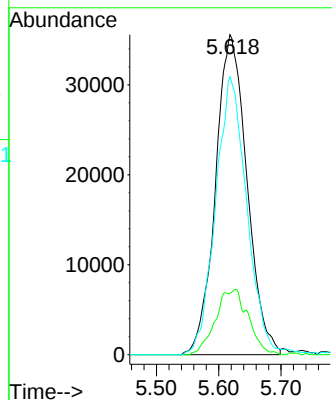


#15
Acrylonitrile
Concen: 13.633 ug/l
RT: 5.618 min Scan# 11
Delta R.T. 0.064 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Instrument :
MSVOA_N
ClientSampleId :

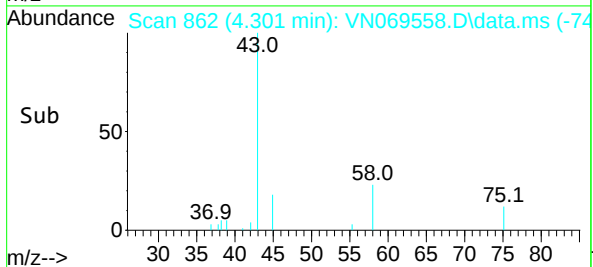
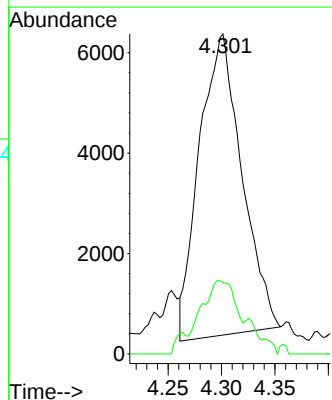
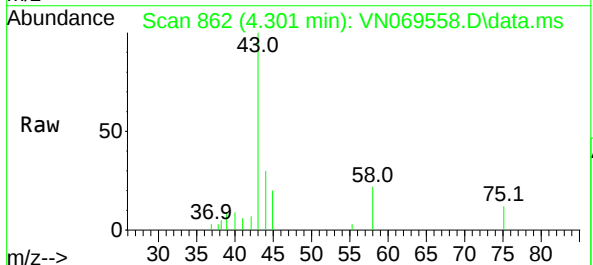


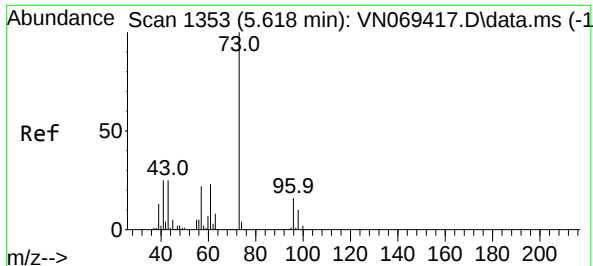
Tgt Ion: 53 Resp: 124689
Ion Ratio Lower Upper
53 100
52 9.1 66.2 99.2#
51 85.7 29.6 44.4#



#16
Acetone
Concen: 1.555 ug/l
RT: 4.301 min Scan# 862
Delta R.T. 0.013 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion: 43 Resp: 16627
Ion Ratio Lower Upper
43 100
58 21.7 23.1 34.7#





#19

Methyl tert-butyl Ether

Concen: 212.130 ug/l

RT: 5.621 min Scan# 11

Delta R.T. 0.003 min

Lab File: VN069558.D

Acq: 18 Nov 2021 17:25

Instrument :

MSVOA_N

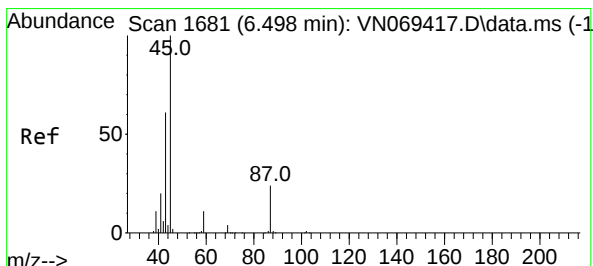
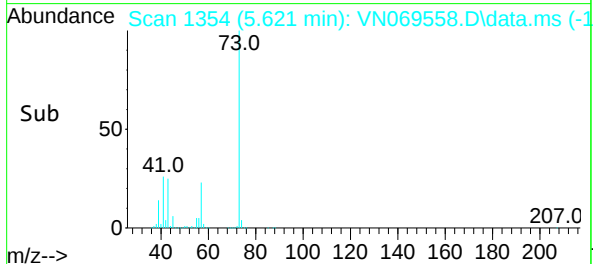
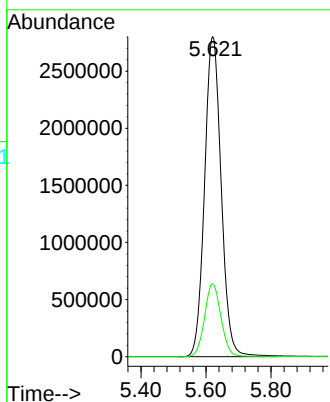
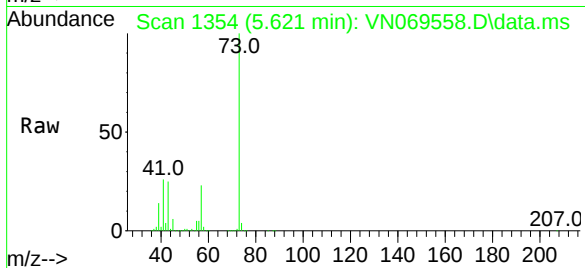
ClientSampleId :

Tgt Ion: 73 Resp: 9946161

Ion Ratio Lower Upper

73 100

57 22.7 16.8 25.2



#22

Diisopropyl ether

Concen: 4.561 ug/l

RT: 6.498 min Scan# 1681

Delta R.T. -0.000 min

Lab File: VN069558.D

Acq: 18 Nov 2021 17:25

Tgt Ion: 45 Resp: 240667

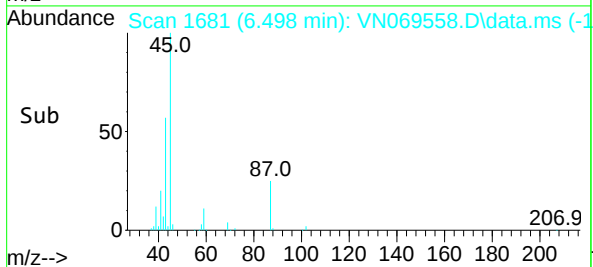
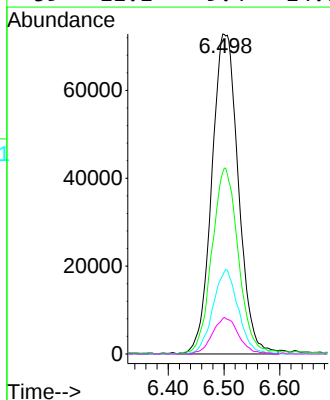
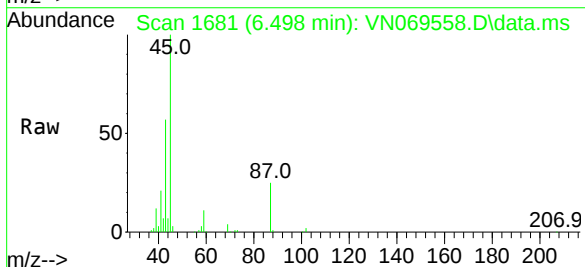
Ion Ratio Lower Upper

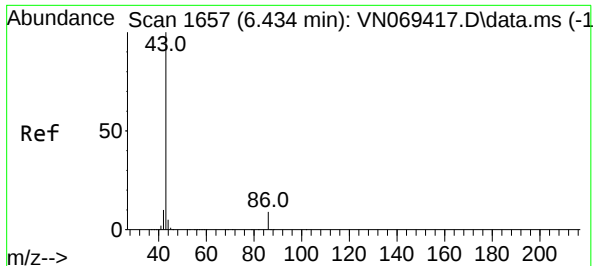
45 100

43 56.8 51.7 77.5

87 24.6 23.2 34.8

59 11.1 9.4 14.0

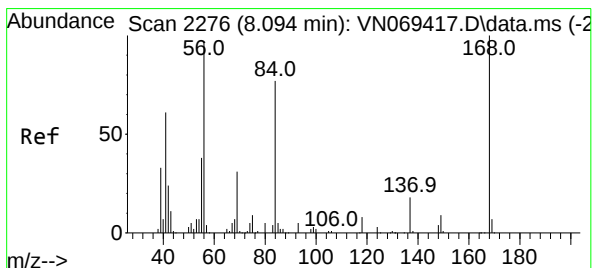
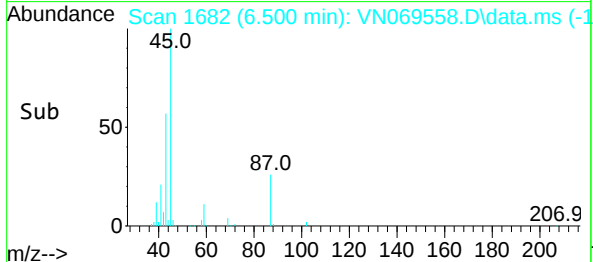
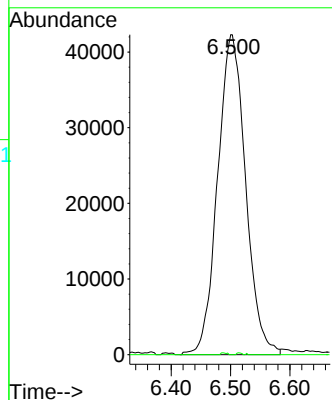
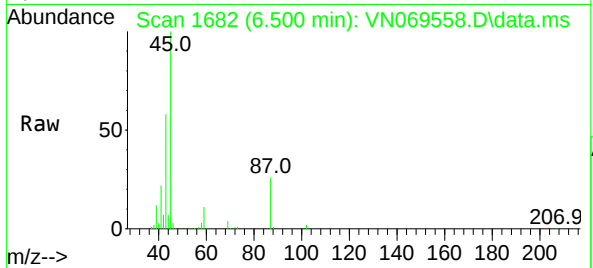




#23
 Vinyl Acetate
 Concen: 3.396 ug/l
 RT: 6.500 min Scan# 11
 Delta R.T. 0.066 min
 Lab File: VN069558.D
 Acq: 18 Nov 2021 17:25

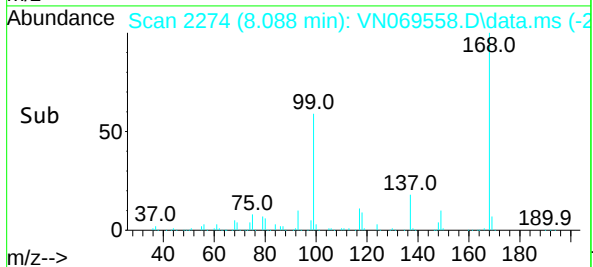
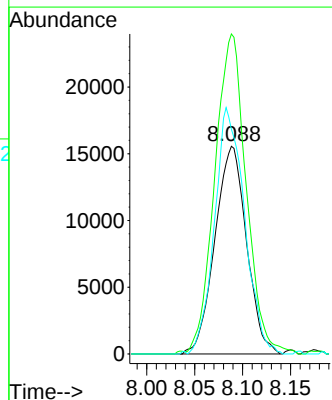
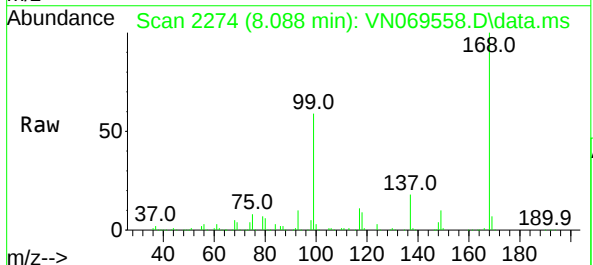
Instrument :
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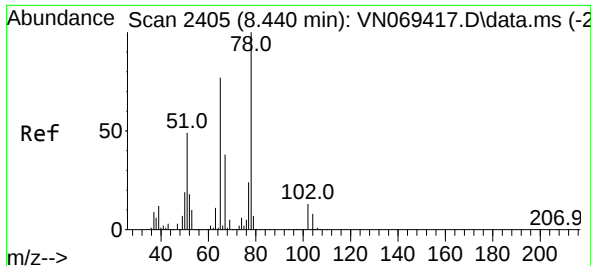
Tgt Ion: 43 Resp: 138577
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.5 12.7#



#31
 Cyclohexane
 Concen: 1.316 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.006 min
 Lab File: VN069558.D
 Acq: 18 Nov 2021 17:25

Tgt Ion: 56 Resp: 35644
 Ion Ratio Lower Upper
 56 100
 69 152.7 27.1 40.7#
 84 108.2 73.4 110.0

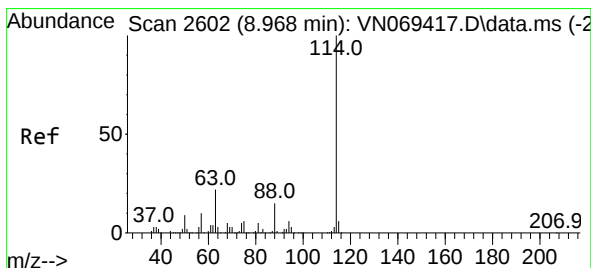
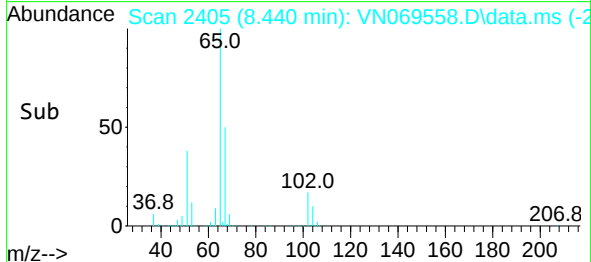
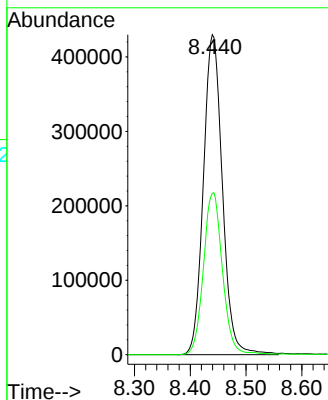
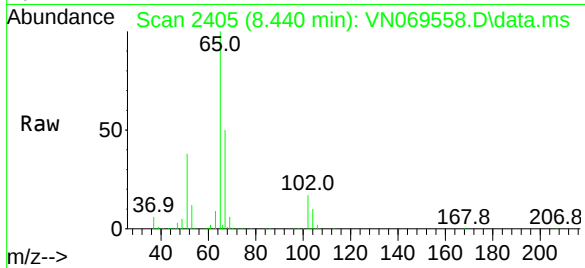




#33
 1,2-Dichloroethane-d4
 Concen: 51.331 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: VN069558.D
 Acq: 18 Nov 2021 17:25

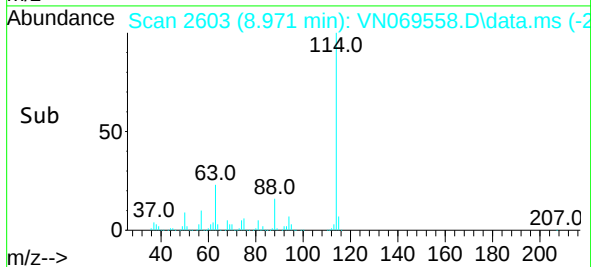
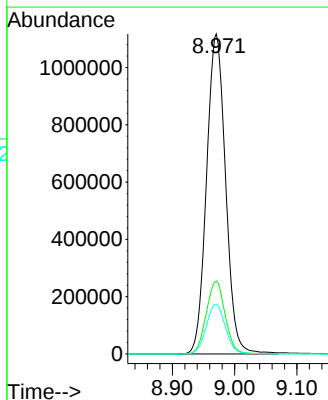
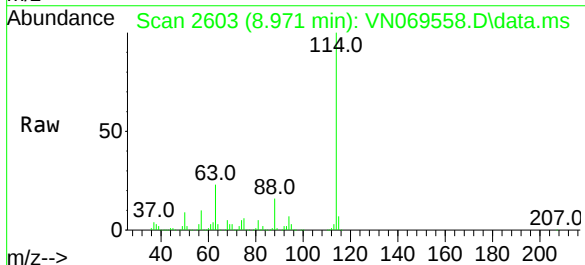
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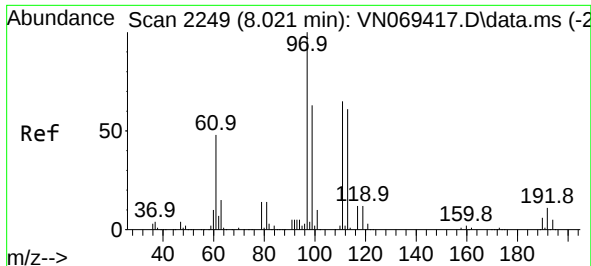
Tgt Ion: 65 Resp: 1017364
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.971 min Scan# 2603
 Delta R.T. 0.003 min
 Lab File: VN069558.D
 Acq: 18 Nov 2021 17:25

Tgt Ion: 114 Resp: 2374098
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 37.8
 88 15.5 0.0 27.4





#35

Dibromofluoromethane

Concen: 48.843 ug/l

RT: 8.024 min Scan# 21

Delta R.T. 0.003 min

Lab File: VN069558.D

Acq: 18 Nov 2021 17:25

Instrument :

MSVOA_N

ClientSampleId :

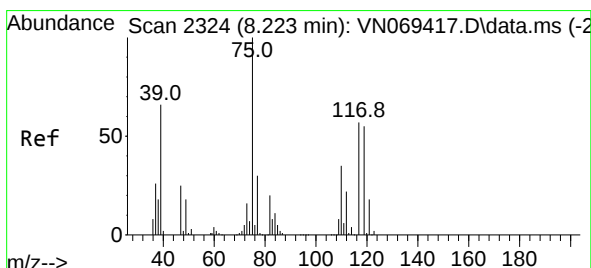
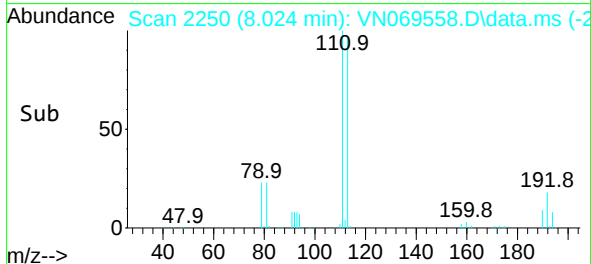
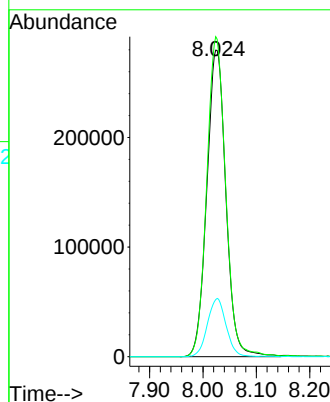
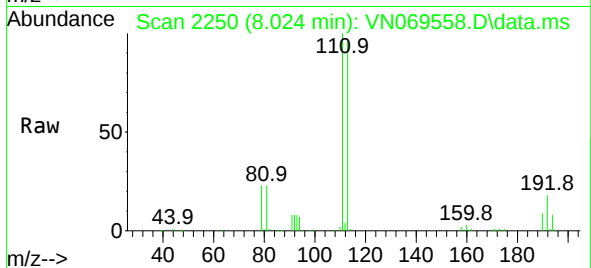
Tgt Ion:113 Resp: 695472

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.2

192 18.6 16.9 25.3



#36

1,1-Dichloropropene

Concen: 5.965 ug/l

RT: 8.085 min Scan# 2273

Delta R.T. -0.138 min

Lab File: VN069558.D

Acq: 18 Nov 2021 17:25

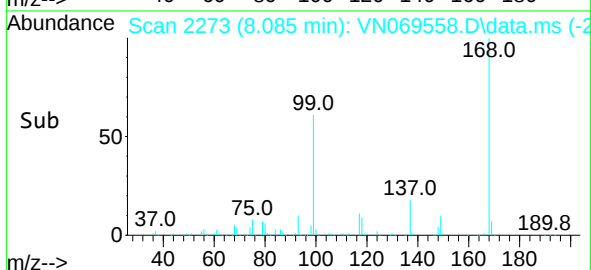
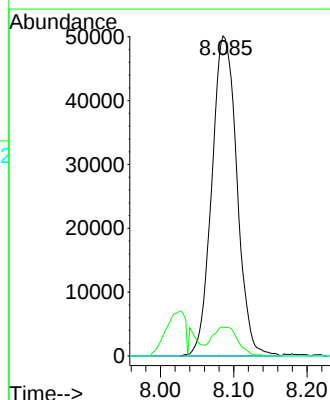
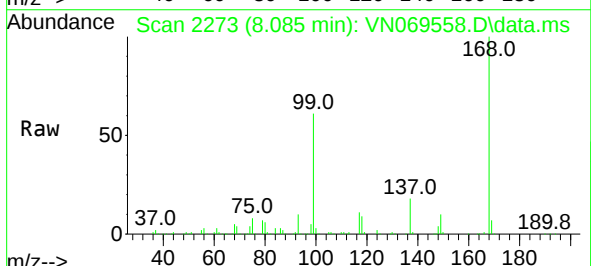
Tgt Ion: 75 Resp: 119166

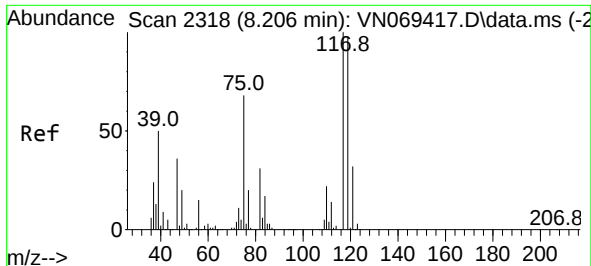
Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

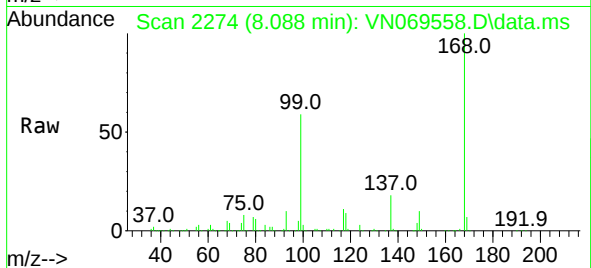
77 0.0 24.4 36.6#



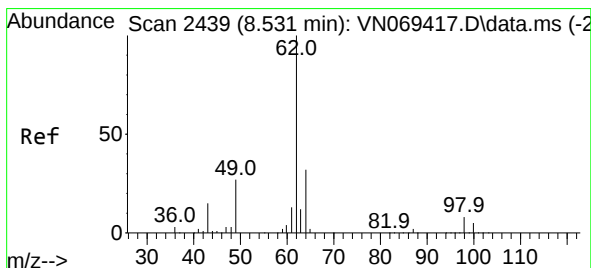
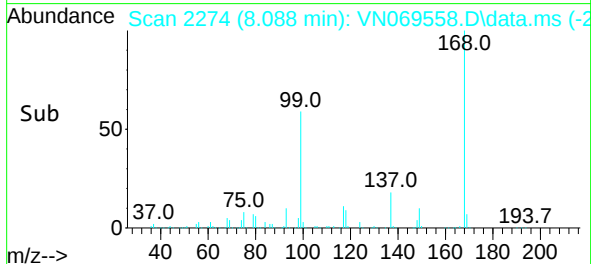
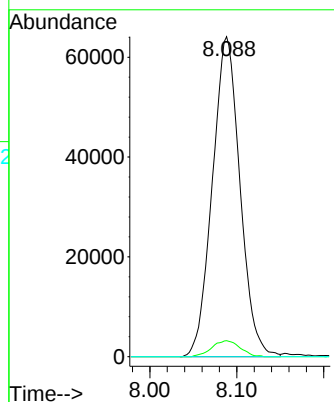


#38
Carbon Tetrachloride
Concen: 7.340 ug/l
RT: 8.088 min Scan# 211
Delta R.T. -0.118 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Instrument :
MSVOA_N
ClientSampleId :

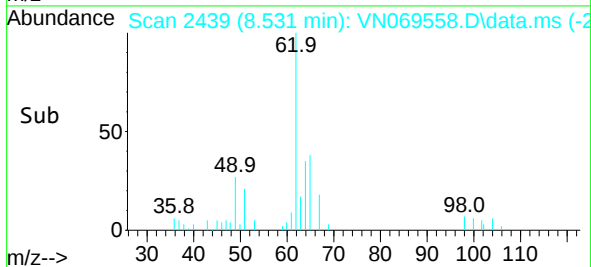
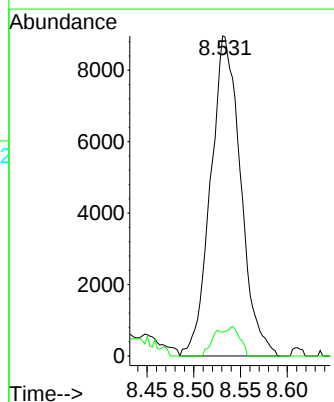
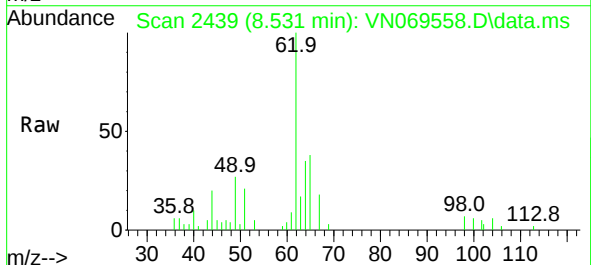


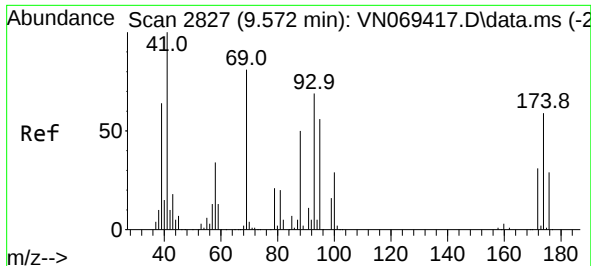
Tgt Ion:117 Resp: 141563
Ion Ratio Lower Upper
117 100
119 5.0 76.1 114.1#
121 0.0 24.2 36.2#



#42
1,2-Dichloroethane
Concen: 0.830 ug/l
RT: 8.531 min Scan# 2439
Delta R.T. -0.000 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion: 62 Resp: 20039
Ion Ratio Lower Upper
62 100
98 3.1 0.0 17.6





#49

1,4-Dioxane

Concen: 39.128 ug/l

RT: 9.587 min Scan# 21

Delta R.T. 0.015 min

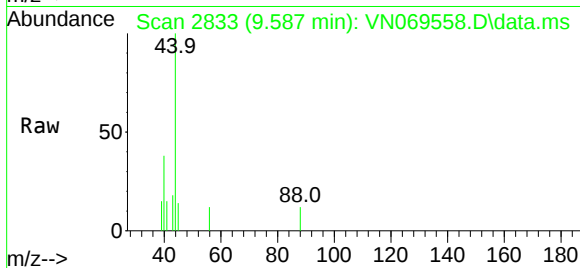
Lab File: VN069558.D

Acq: 18 Nov 2021 17:25

Instrument :

MSVOA_N

ClientSampleId :



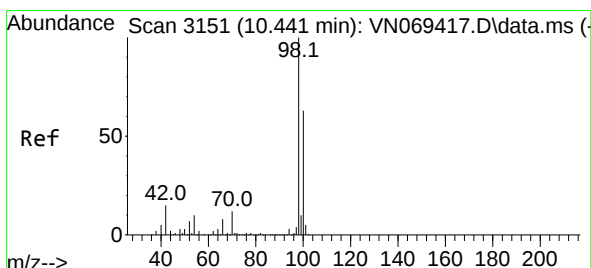
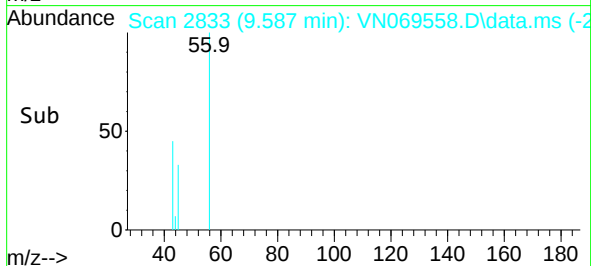
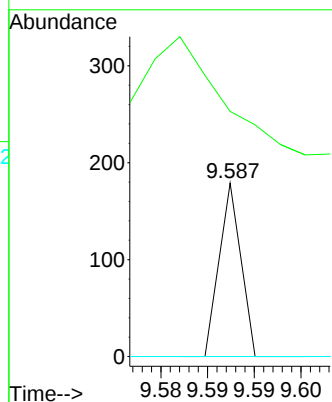
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 275.9 23.4 35.2#

58 0.0 50.6 75.8#



#50

Toluene-d8

Concen: 54.199 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.002 min

Lab File: VN069558.D

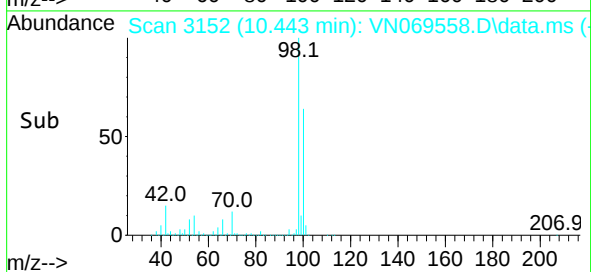
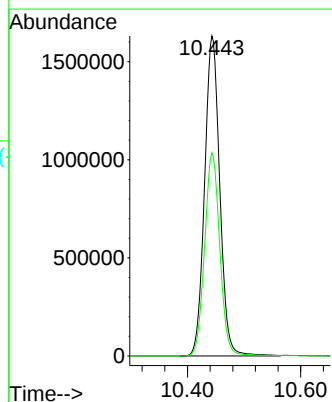
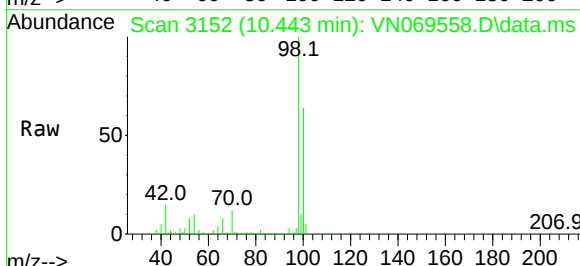
Acq: 18 Nov 2021 17:25

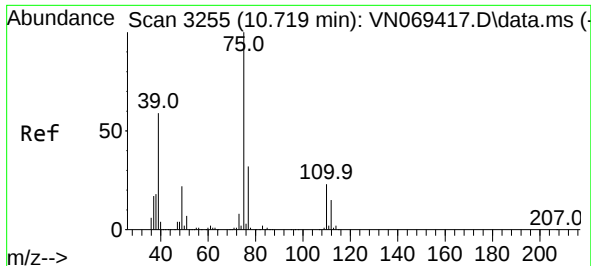
Tgt Ion: 98 Resp: 3035179

Ion Ratio Lower Upper

98 100

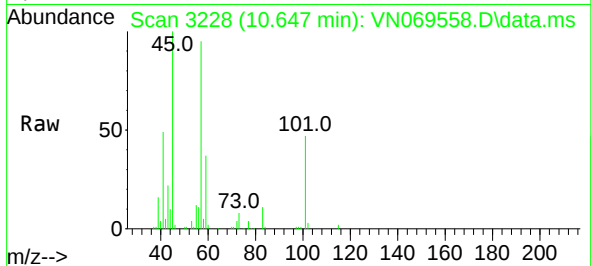
100 63.7 50.4 75.6



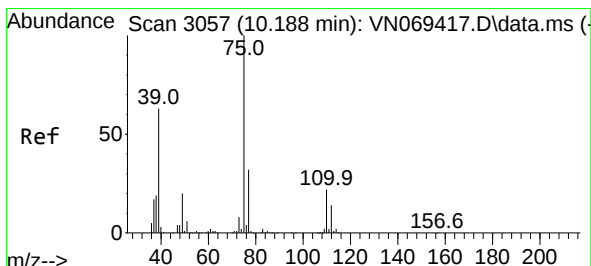
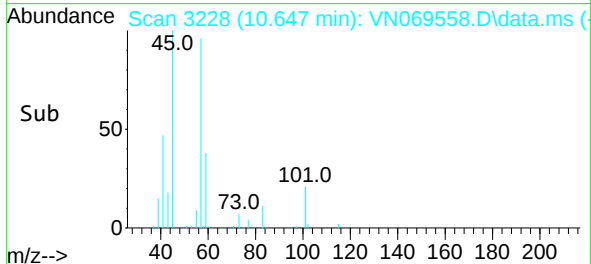
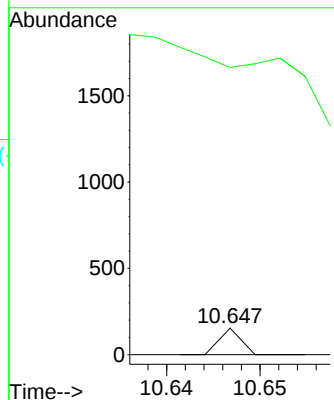


#53
t-1,3-Dichloropropene
Concen: 2.638 ug/l
RT: 10.647 min Scan# 3150
Delta R.T. -0.072 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Instrument :
MSVOA_N
ClientSampleId :

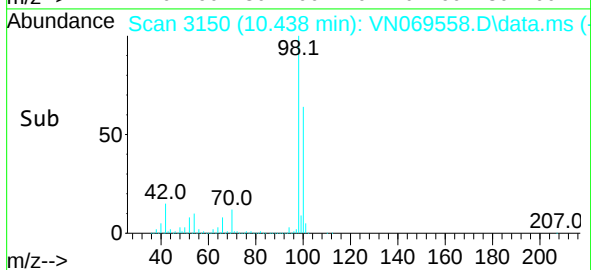
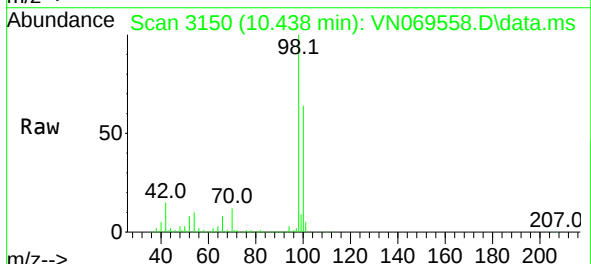
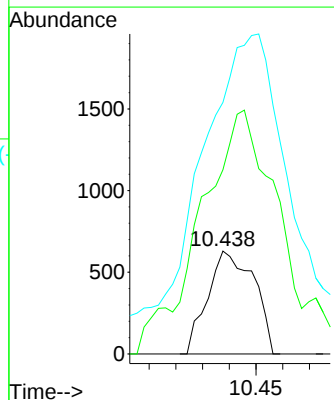


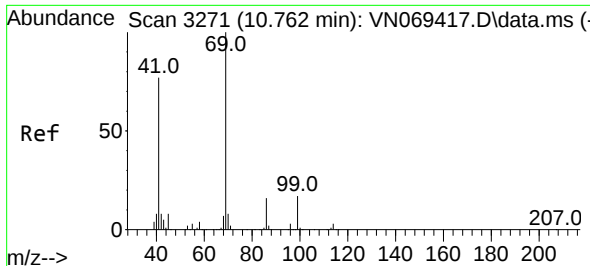
Tgt Ion: 75 Resp: 25
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 1.760 ug/l
RT: 10.438 min Scan# 3150
Delta R.T. 0.250 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion: 75 Resp: 758
Ion Ratio Lower Upper
75 100
77 128.6 26.4 39.6#
39 160.0 42.5 63.7#

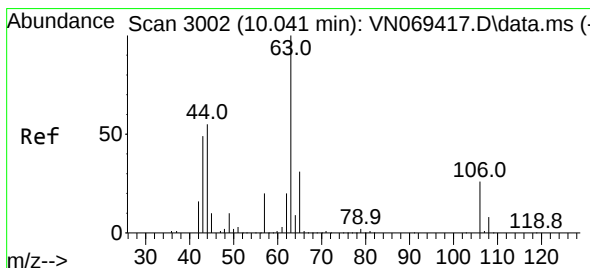
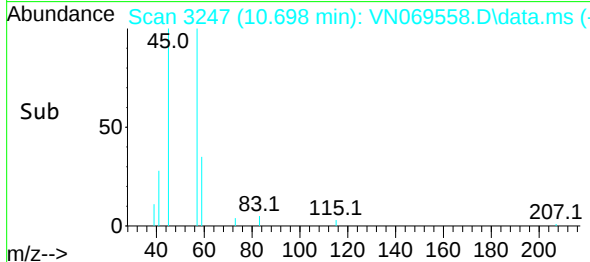
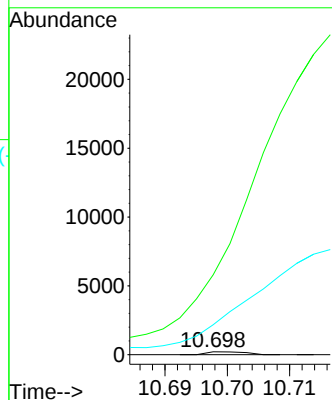
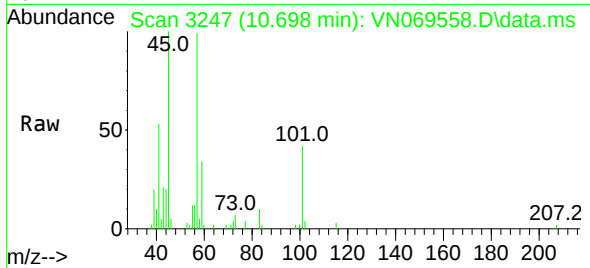




#56
Ethyl methacrylate
Concen: 2.056 ug/l
RT: 10.698 min Scan# 310
Delta R.T. -0.064 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

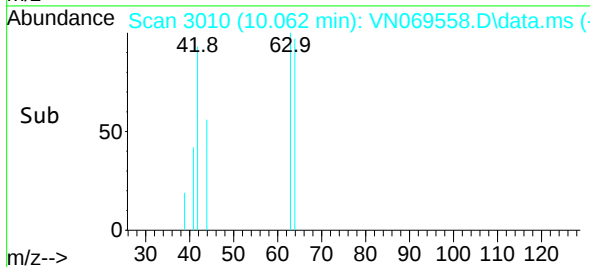
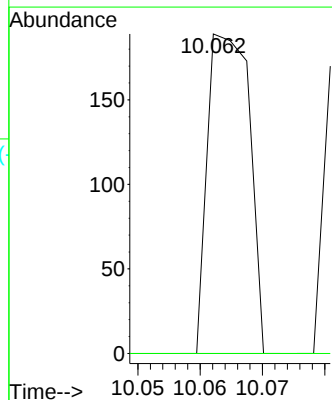
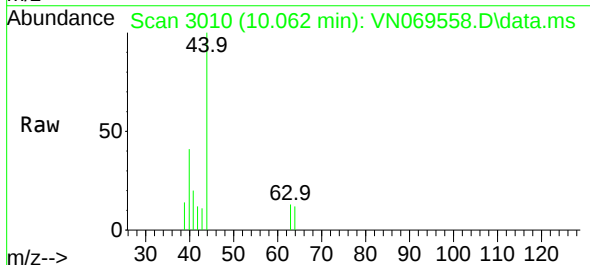
Instrument :
MSVOA_N
ClientSampleId :

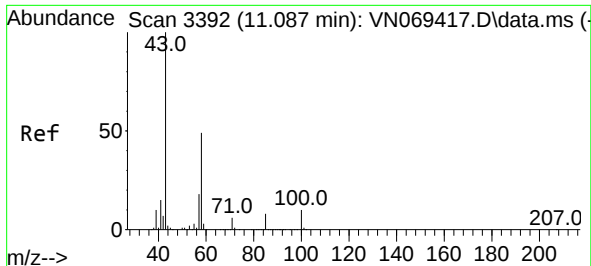
Tgt Ion: 69 Resp: 92
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 0.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 22.781 ug/l
RT: 10.062 min Scan# 3010
Delta R.T. 0.021 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion: 63 Resp: 88
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

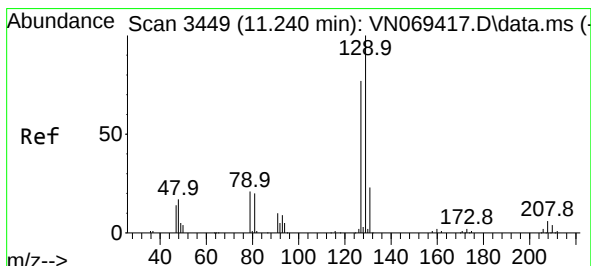
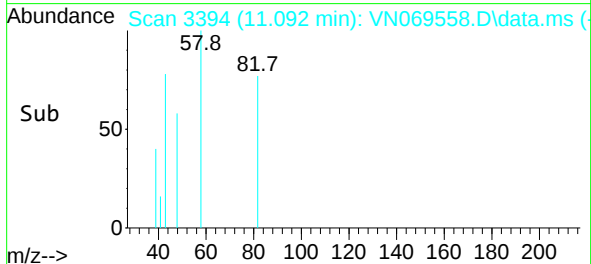
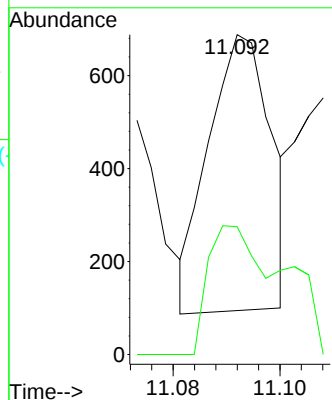
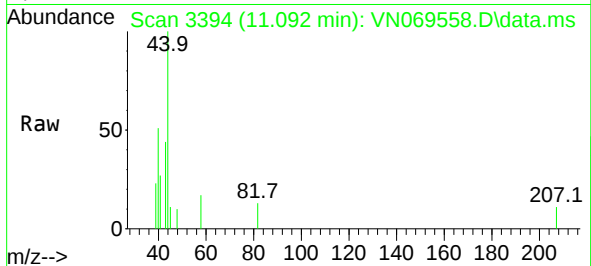




#59
2-Hexanone
Concen: 7.961 ug/l
RT: 11.092 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

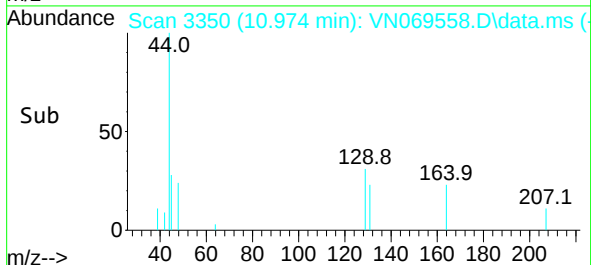
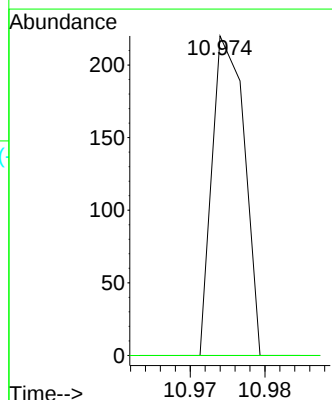
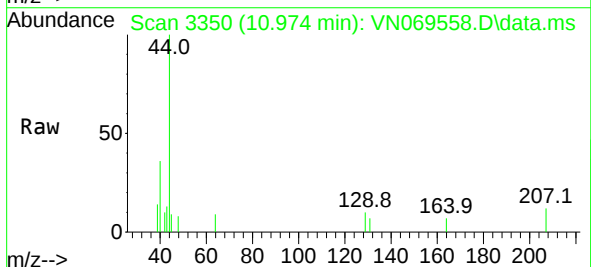
Instrument :
MSVOA_N
ClientSampleId :

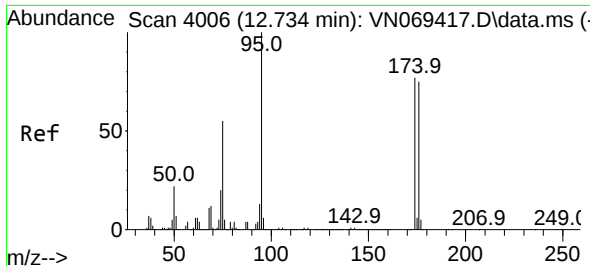
Tgt Ion: 43 Resp: 482
Ion Ratio Lower Upper
43 100
58 56.0 26.9 80.7



#60
Dibromochloromethane
Concen: 2.421 ug/l
RT: 10.974 min Scan# 3350
Delta R.T. -0.266 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion:129 Resp: 66
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

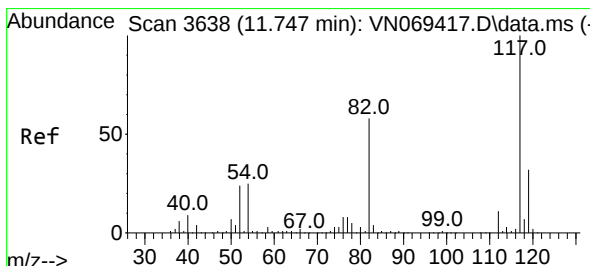
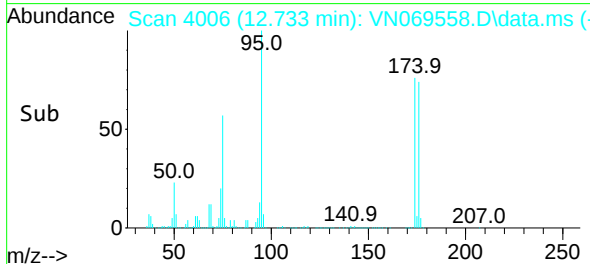
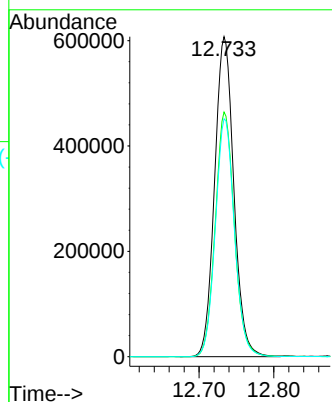
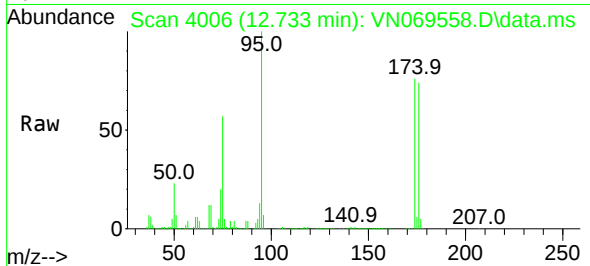




#62
4-Bromofluorobenzene
Concen: 52.673 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.001 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

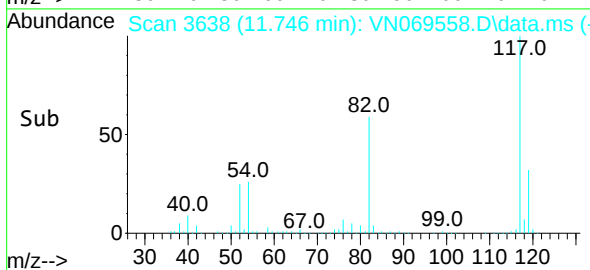
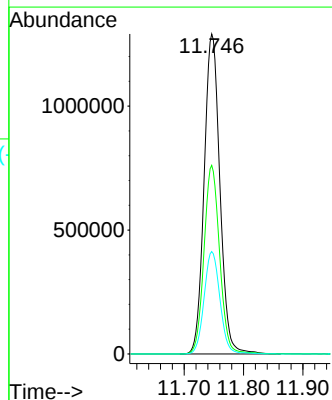
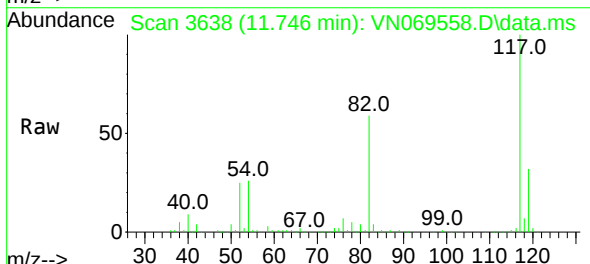
Instrument :
MSVOA_N
ClientSampleId :

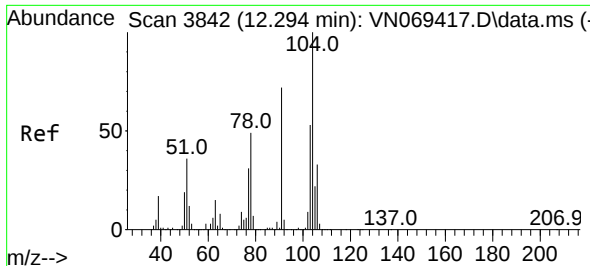
Tgt Ion: 95 Resp: 1083631
Ion Ratio Lower Upper
95 100
174 76.1 0.0 187.2
176 73.8 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.001 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

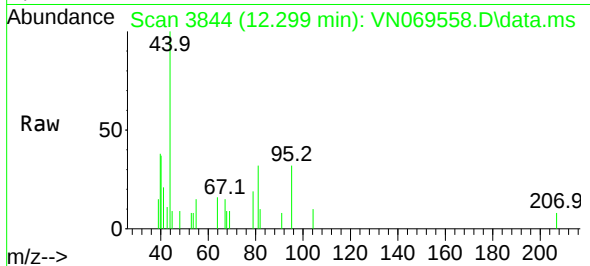
Tgt Ion: 117 Resp: 2382935
Ion Ratio Lower Upper
117 100
82 58.9 42.4 63.6
119 32.0 25.4 38.2



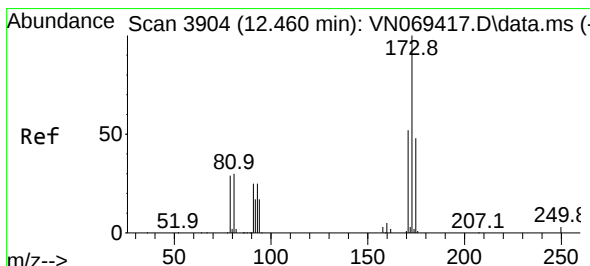
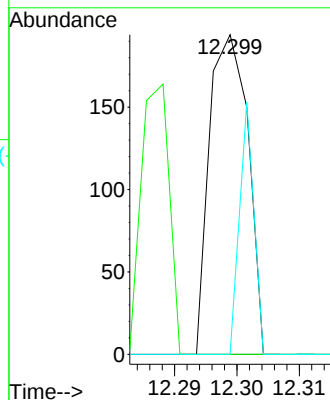
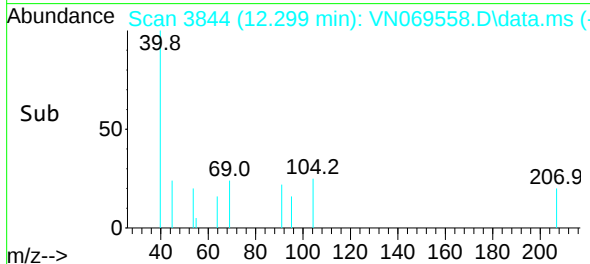


#70
Styrene
Concen: 1.522 ug/l
RT: 12.299 min Scan# 3096
Delta R.T. 0.005 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Instrument :
MSVOA_N
ClientSampleId :

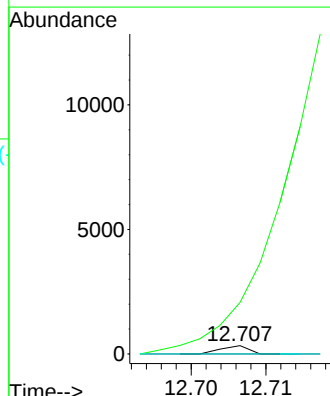
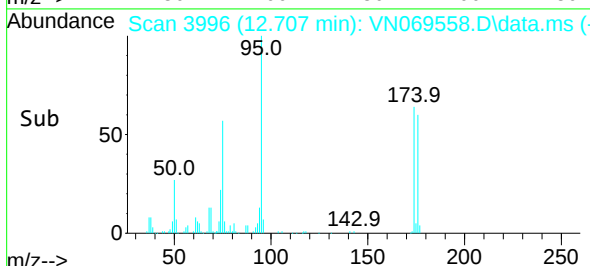
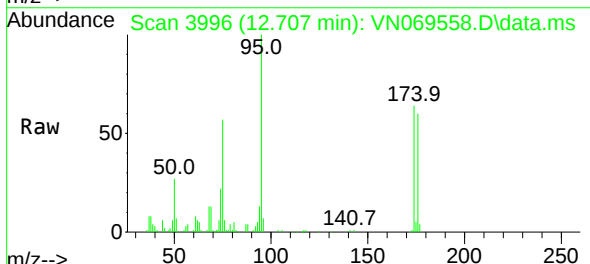


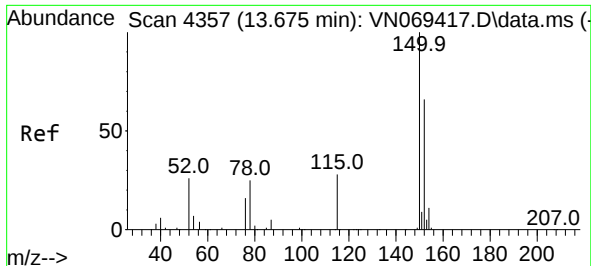
Tgt Ion:104 Resp: 83
Ion Ratio Lower Upper
104 100
78 61.4 38.7 58.1#
103 30.1 45.0 67.6#



#71
Bromoform
Concen: 3.434 ug/l
RT: 12.707 min Scan# 3996
Delta R.T. 0.247 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion:173 Resp: 85
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0

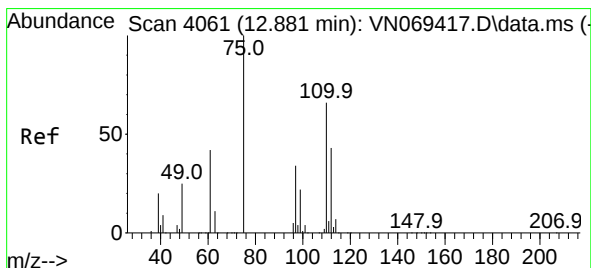
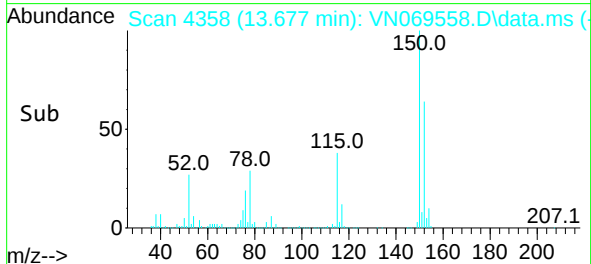
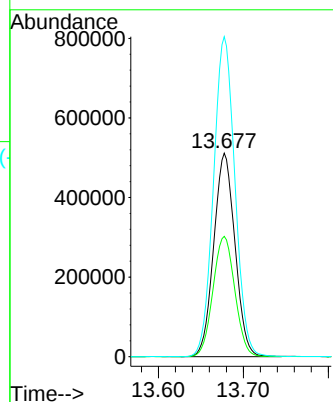
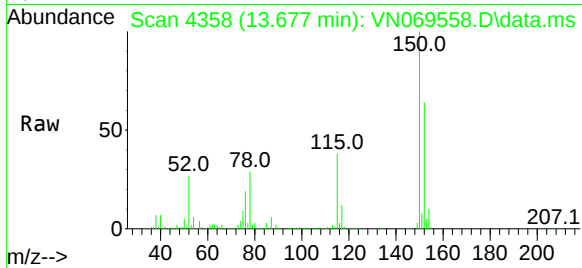




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 41
Delta R.T. 0.002 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

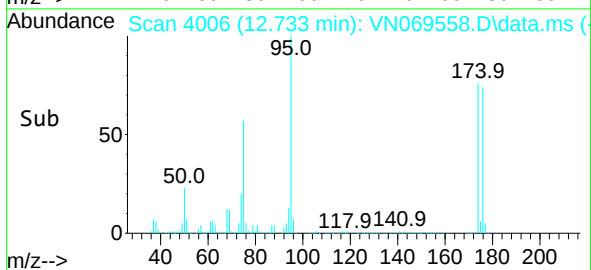
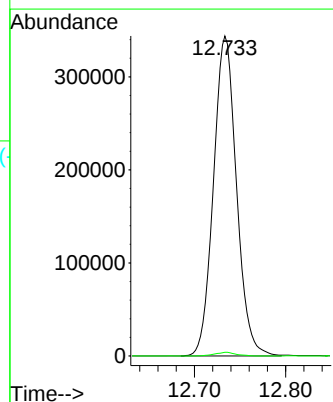
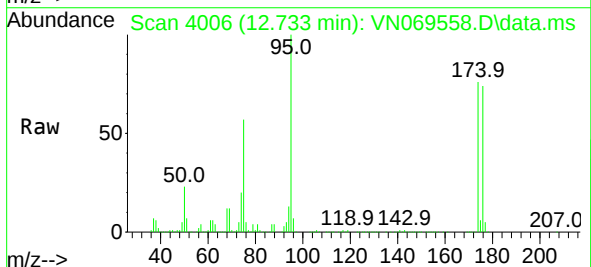
Instrument :
MSVOA_N
ClientSampleId :

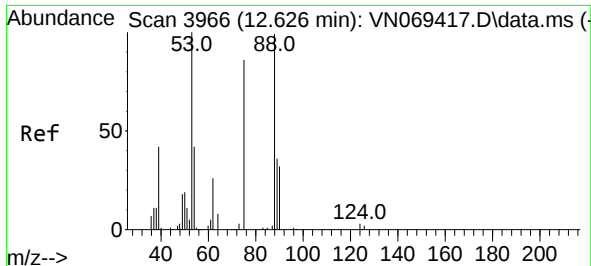
Tgt Ion:152 Resp: 890291
Ion Ratio Lower Upper
152 100
115 60.7 27.5 82.5
150 158.4 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 29.391 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion: 75 Resp: 603858
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#

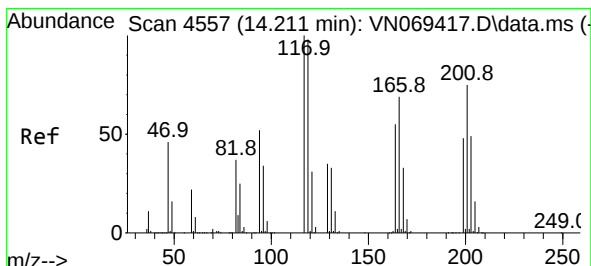
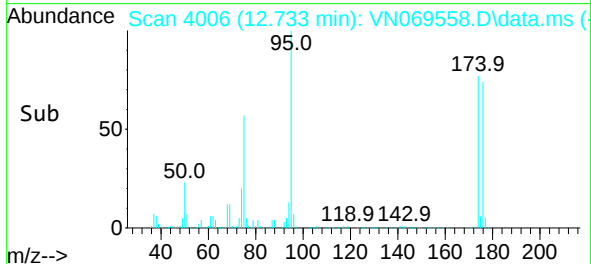
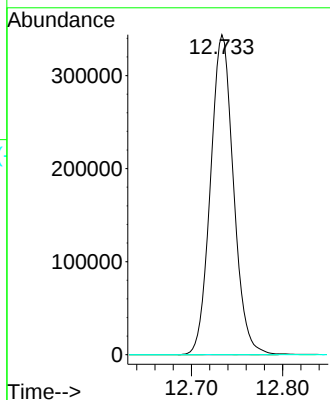
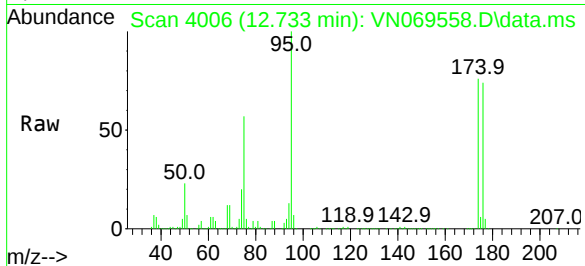




#81
trans-1,4-Dichloro-2-butene
Concen: 83.148 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

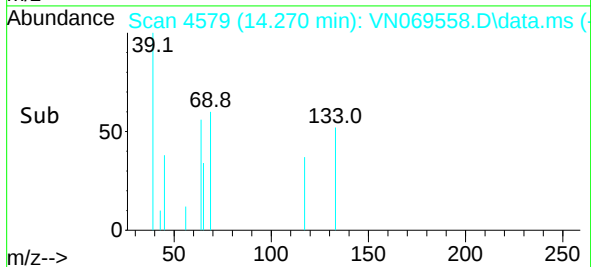
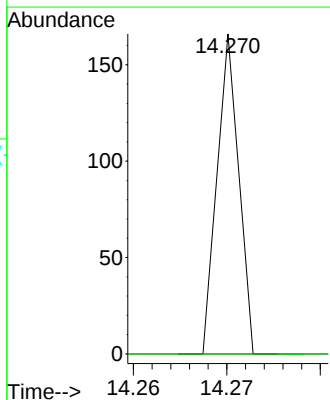
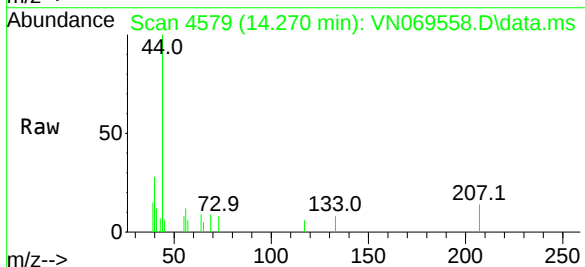
Instrument :
MSVOA_N
ClientSampleId :

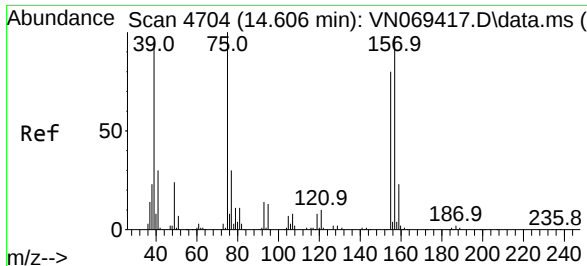
Tgt Ion: 75 Resp: 603858
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#90
Hexachloroethane
Concen: 2.165 ug/l
RT: 14.270 min Scan# 4579
Delta R.T. 0.059 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion: 117 Resp: 27
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#

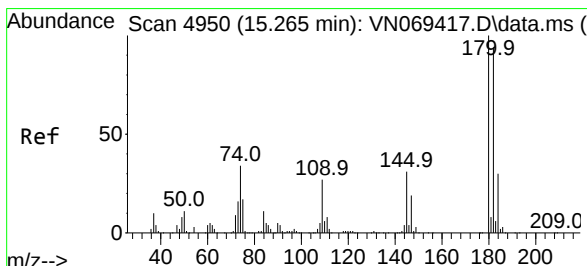
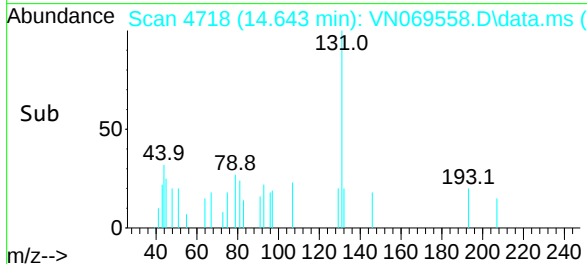
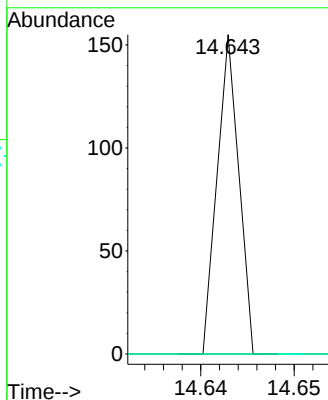
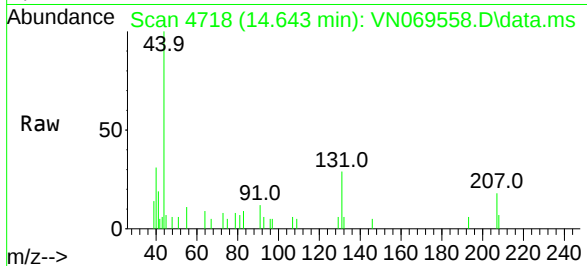




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.802 ug/l
RT: 14.643 min Scan# 41
Delta R.T. 0.037 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

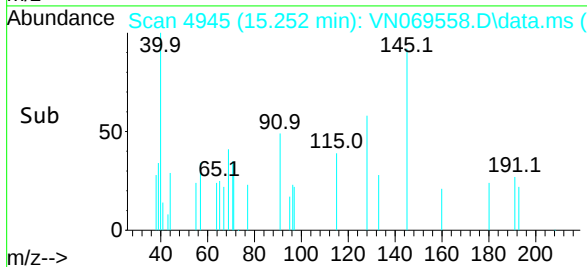
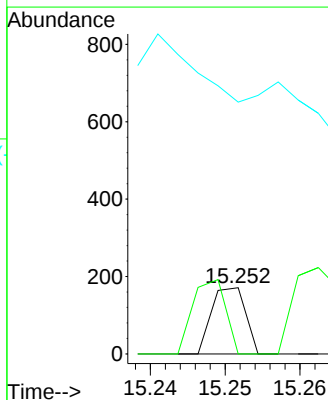
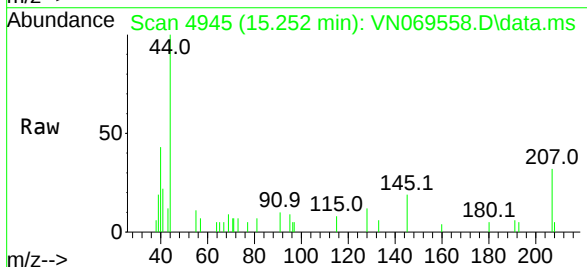
Instrument :
MSVOA_N
ClientSampleId :

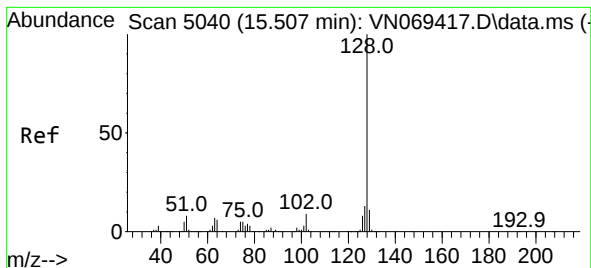
Tgt Ion: 75 Resp: 25
Ion Ratio Lower Upper
75 100
155 0.0 46.9 140.7#
157 0.0 60.6 181.7#



#93
1,2,4-Trichlorobenzene
Concen: 3.117 ug/l
RT: 15.252 min Scan# 4945
Delta R.T. -0.013 min
Lab File: VN069558.D
Acq: 18 Nov 2021 17:25

Tgt Ion:180 Resp: 54
Ion Ratio Lower Upper
180 100
182 109.3 48.3 144.9
145 1203.7 14.5 43.5#





#95

Naphthalene

Concen: 4.489 ug/l

RT: 15.515 min Scan# 5043

Delta R.T. 0.008 min

Lab File: VN069558.D

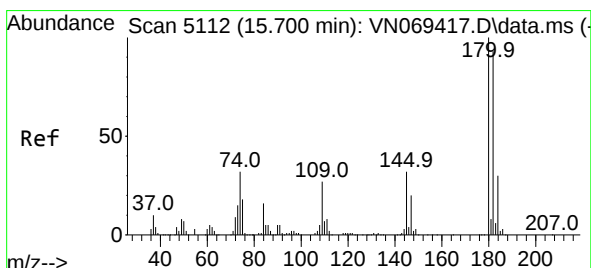
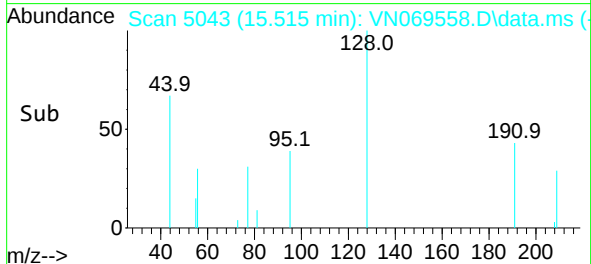
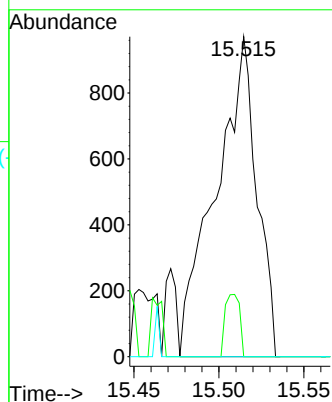
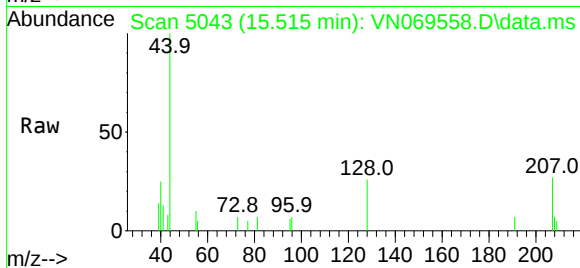
Acq: 18 Nov 2021 17:25

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	1629
Ion Ratio	Lower	Upper
128	100	
127	6.9	10.5 15.7#
129	0.0	8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 3.191 ug/l

RT: 15.710 min Scan# 5116

Delta R.T. 0.010 min

Lab File: VN069558.D

Acq: 18 Nov 2021 17:25

Tgt Ion:180	Resp:	306
Ion Ratio	Lower	Upper
180	100	
182	97.4	47.4 142.2
145	0.0	15.0 45.1#

