

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120621\
 Data File : VN069796.D
 Acq On : 6 Dec 2021 20:36
 Operator : JC/MD
 Sample : PB141160ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 07 03:50:51 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

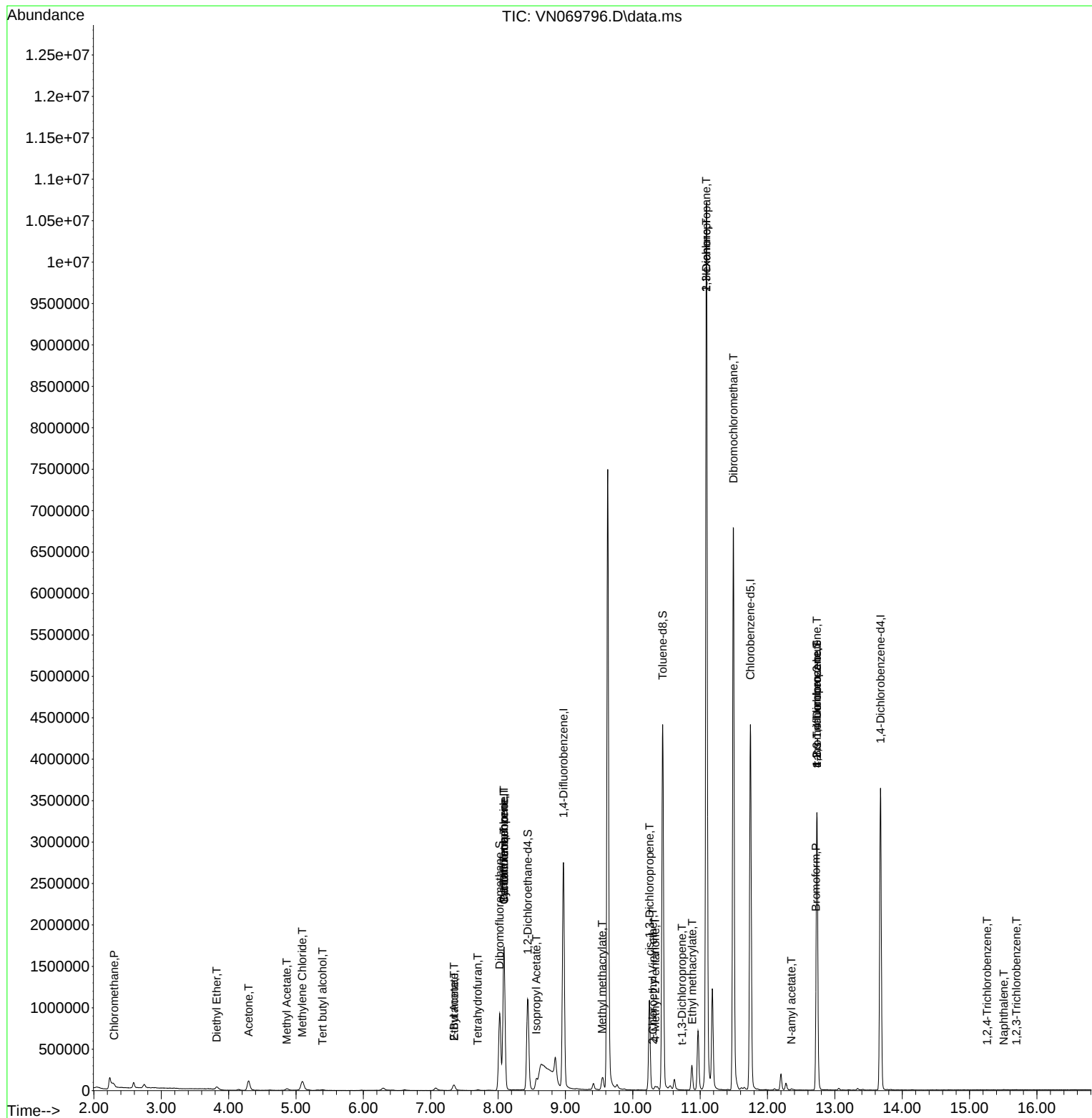
Internal Standards						
1) Pentafluorobenzene	8.088	168	1264620	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	2298869	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	2448905	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	947080	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	956724	48.998	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.000%		
35) Dibromofluoromethane	8.024	113	668215	46.405	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.820%		
50) Toluene-d8	10.443	98	2952994	51.073	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.140%		
62) 4-Bromofluorobenzene	12.733	95	1148744	54.841	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	109.680%		
Target Compounds						Qvalue
3) Chloromethane	2.301	50	4552	0.246	ug/l #	79
8) Diethyl Ether	3.821	74	13427	1.563	ug/l #	41
11) Tert butyl alcohol	5.393	59	13942	3.777	ug/l #	76
16) Acetone	4.296	43	216108	18.399	ug/l	96
18) Methyl Acetate	4.864	43	40661	1.147	ug/l	91
20) Methylene Chloride	5.092	84	79336	5.081	ug/l	88
25) 2-Butanone	7.345	43	90707	5.684	ug/l	94
29) Tetrahydrofuran	7.697	42	4560	0.471	ug/l #	53
31) Cyclohexane	8.086	56	32947	1.212	ug/l #	39
36) 1,1-Dichloropropene	8.088	75	107328	4.904	ug/l #	49
37) Ethyl Acetate	7.345	43	90707	2.785	ug/l #	69
38) Carbon Tetrachloride	8.086	117	130622	6.087	ug/l #	16
43) Isopropyl Acetate	8.568	43	159057	3.300	ug/l #	83
48) Methyl methacrylate	9.545	41	42551	1.892	ug/l #	8
51) 4-Methyl-2-Pentanone	10.336	43	23513	0.752	ug/l	90
53) t-1,3-Dichloropropene	10.730	75	166	2.800	ug/l #	48
54) cis-1,3-Dichloropropene	10.247	75	177690	8.057	ug/l #	70
56) Ethyl methacrylate	10.883	69	1783	2.334	ug/l #	1
57) 1,3-Dichloropropane	11.092	76	105618	3.640	ug/l #	43
58) 2-Chloroethyl Vinyl ether	10.298	63	24	18.392	ug/l #	45
59) 2-Hexanone	11.092	43	1903759	80.482	ug/l #	48
60) Dibromochloromethane	11.494	129	994	2.430	ug/l #	11
71) Bromoform	12.720	173	1678	2.837	ug/l #	29
74) N-amyl acetate	12.355	43	11800	0.317	ug/l #	49
76) 1,2,3-Trichloropropane	12.733	75	641357	23.614	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	641357	75.069	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.262	180	303	2.896	ug/l	82
95) Naphthalene	15.507	128	3297	4.051	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.694	180	372	2.459	ug/l #	43

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

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Instrument :
MSVOA_N
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Quant Time: Dec 07 03:50:51 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 03 08:46:47 2021
Response via : Initial Calibration

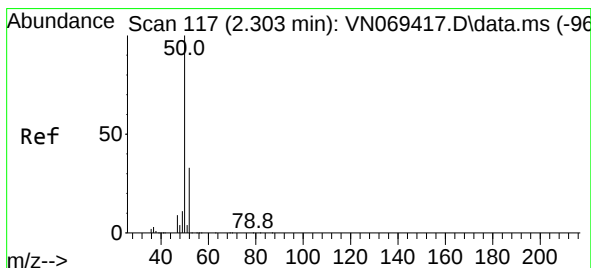
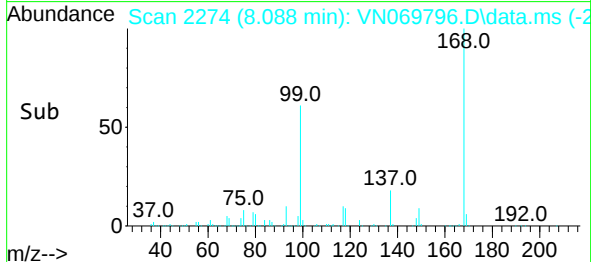
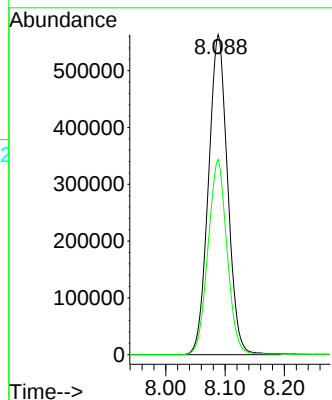
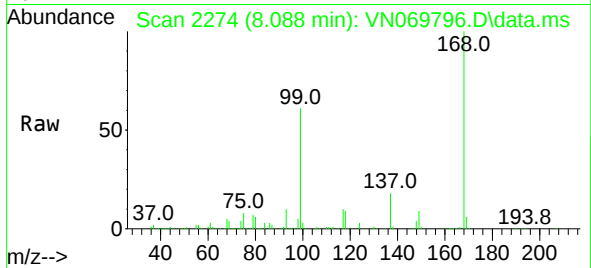




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

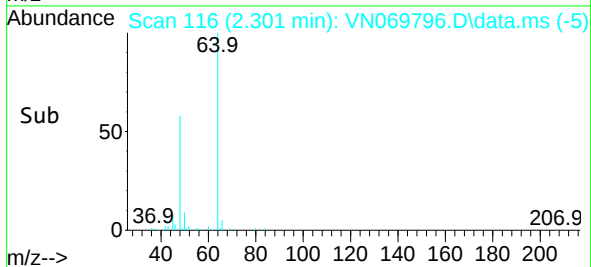
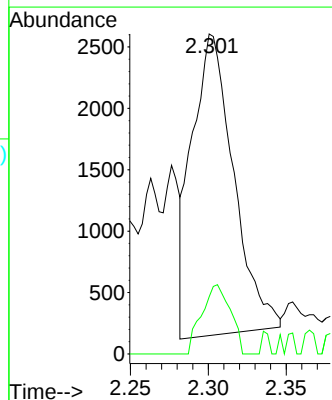
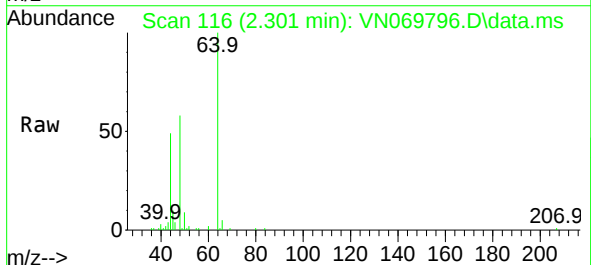
Instrument :
MSVOA_N
ClientSampleId :

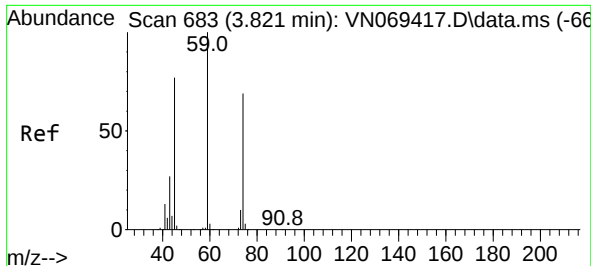
Tgt Ion:168 Resp: 1264620
Ion Ratio Lower Upper
168 100
99 61.0 41.3 61.9



#3
Chloromethane
Concen: 0.246 ug/l
RT: 2.301 min Scan# 116
Delta R.T. -0.003 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

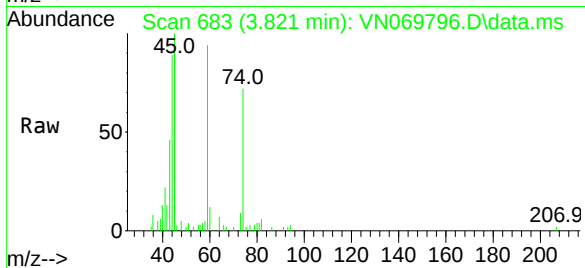
Tgt Ion: 50 Resp: 4552
Ion Ratio Lower Upper
50 100
52 20.1 25.4 38.0#



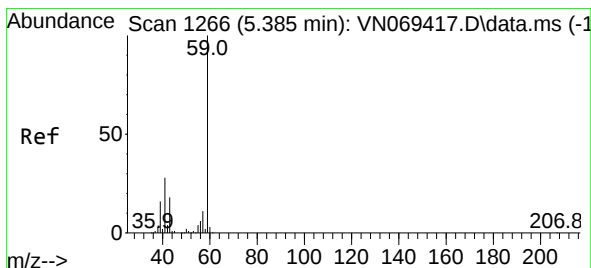
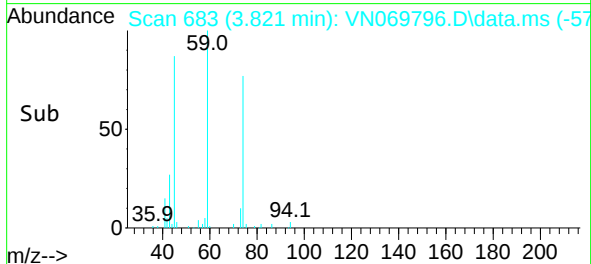
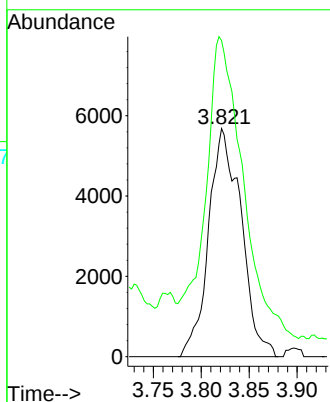


#8
Diethyl Ether
Concen: 1.563 ug/l
RT: 3.821 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Instrument :
MSVOA_N
ClientSampleId :

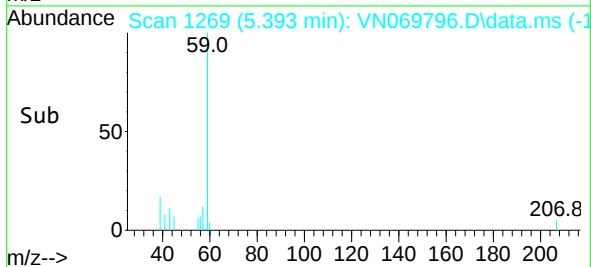
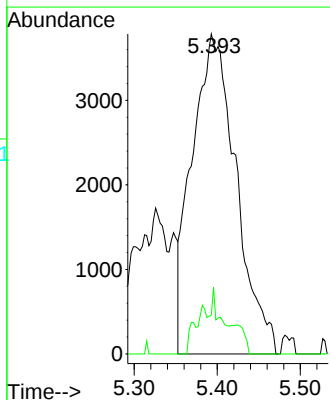
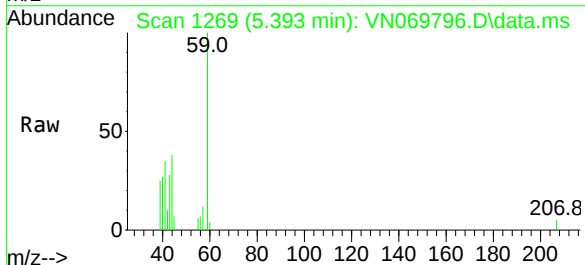


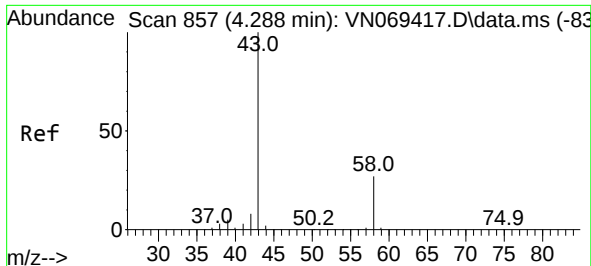
Tgt Ion: 74 Resp: 13427
Ion Ratio Lower Upper
74 100
45 151.2 47.0 141.2#



#11
Tert butyl alcohol
Concen: 3.777 ug/l
RT: 5.393 min Scan# 1269
Delta R.T. 0.003 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

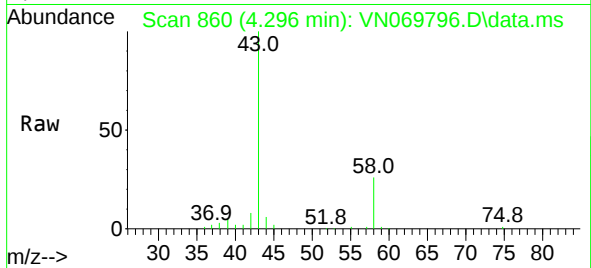
Tgt Ion: 59 Resp: 13942
Ion Ratio Lower Upper
59 100
57 1.9 8.7 13.1#



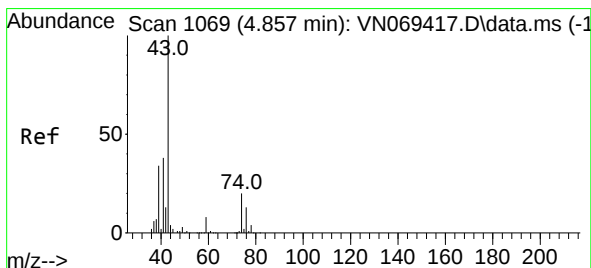
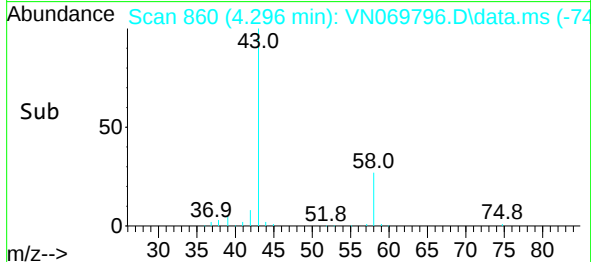
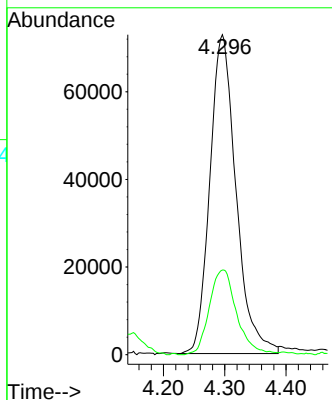


#16
Acetone
Concen: 18.399 ug/l
RT: 4.296 min Scan# 80
Delta R.T. 0.005 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Instrument :
MSVOA_N
ClientSampleId :

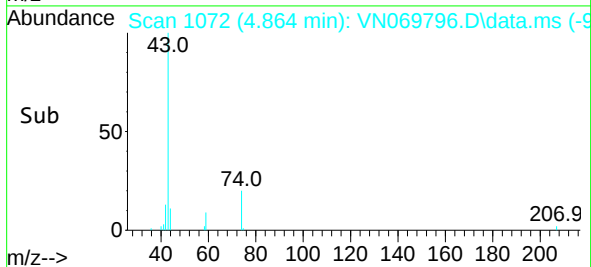
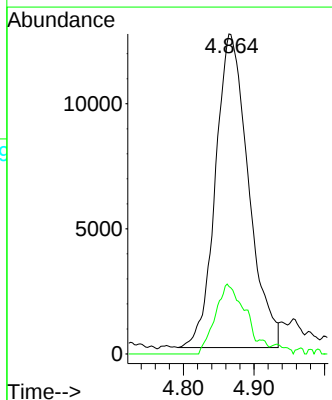
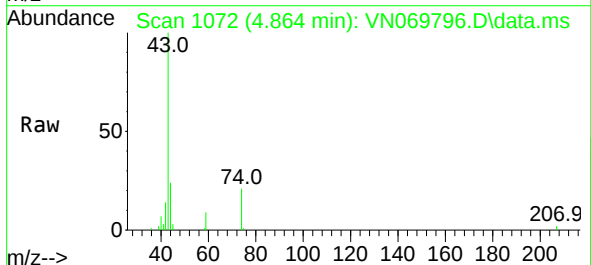


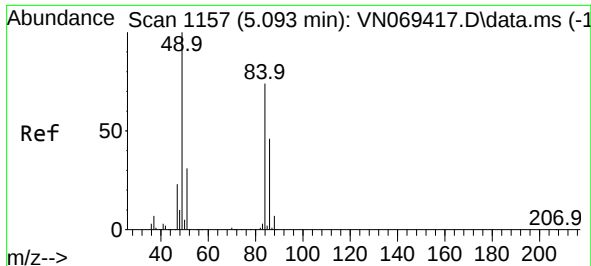
Tgt Ion: 43 Resp: 216108
Ion Ratio Lower Upper
43 100
58 26.6 23.1 34.7



#18
Methyl Acetate
Concen: 1.147 ug/l
RT: 4.864 min Scan# 1072
Delta R.T. 0.008 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

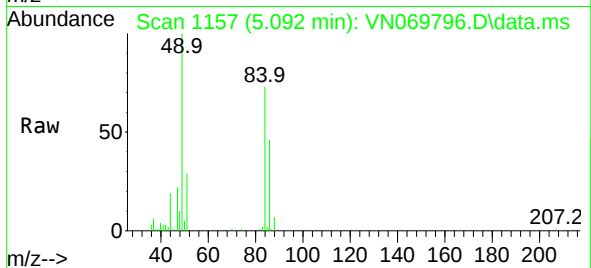
Tgt Ion: 43 Resp: 40661
Ion Ratio Lower Upper
43 100
74 19.7 19.4 29.2



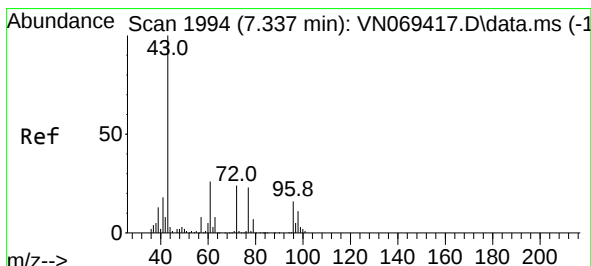
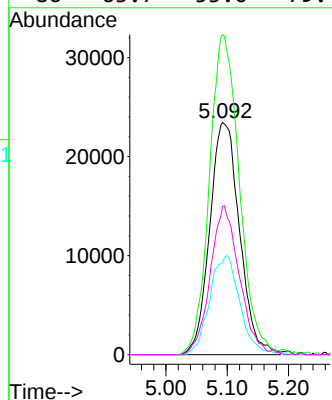
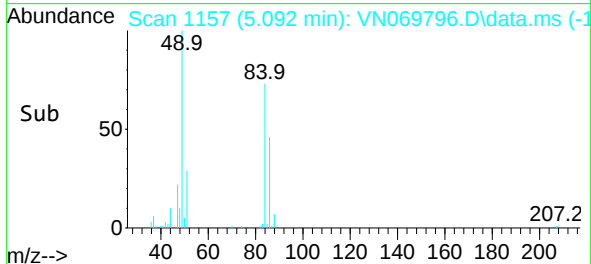


#20
Methylene Chloride
Concen: 5.081 ug/l
RT: 5.092 min Scan# 1157
Delta R.T. 0.000 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

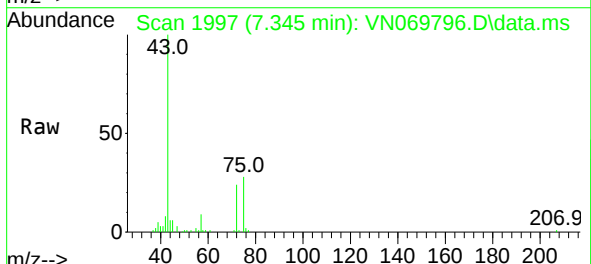
Instrument :
MSVOA_N
ClientSampleId :



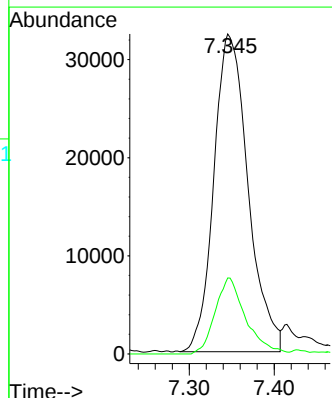
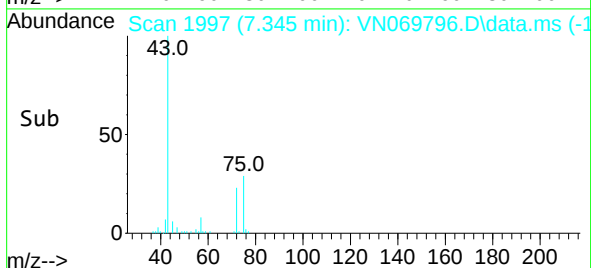
Tgt Ion:	84	Resp:	79336
Ion	Ratio	Lower	Upper
84	100		
49	137.9	93.5	140.3
51	39.9	29.4	44.2
86	63.7	53.0	79.4

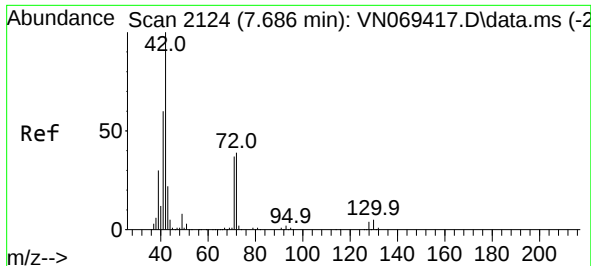


#25
2-Butanone
Concen: 5.684 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. 0.008 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36



Tgt Ion:	43	Resp:	90707
Ion	Ratio	Lower	Upper
43	100		
72	23.9	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.471 ug/l

RT: 7.697 min Scan# 21

Delta R.T. 0.011 min

Lab File: VN069796.D

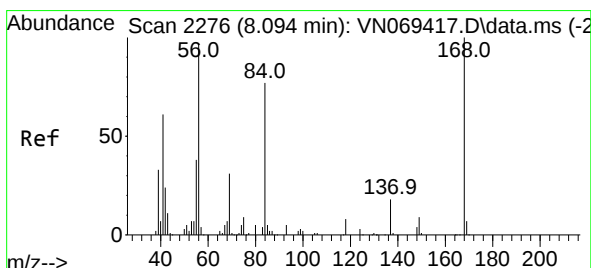
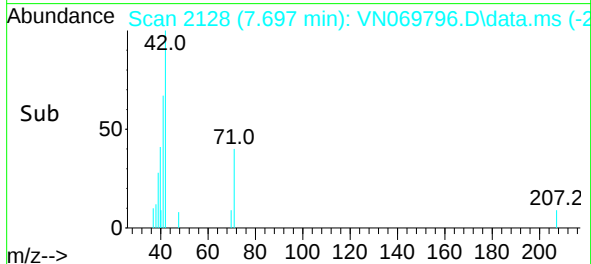
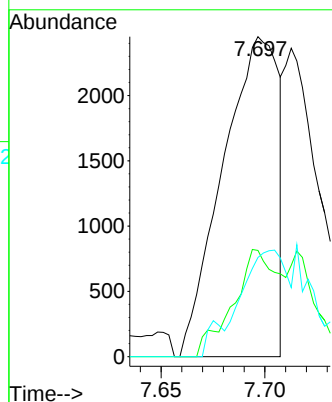
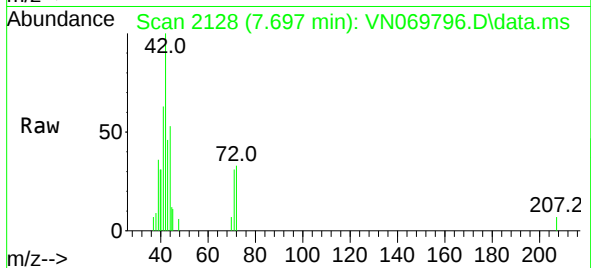
Acq: 6 Dec 2021 20:36

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	42	Resp:	4560
Ion	Ratio	Lower	Upper
42	100		
72	27.8	36.3	54.5#
71	0.0	34.7	52.1#



#31

Cyclohexane

Concen: 1.212 ug/l

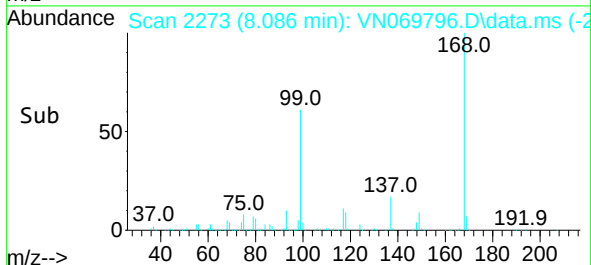
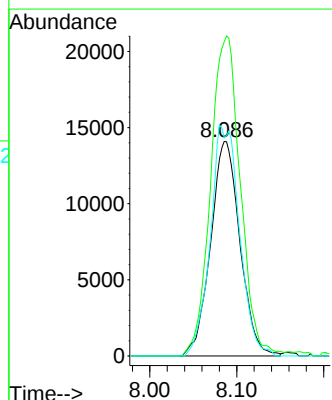
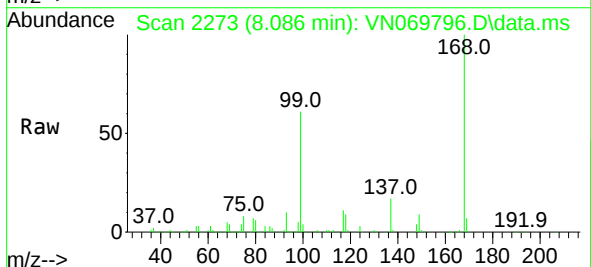
RT: 8.086 min Scan# 2273

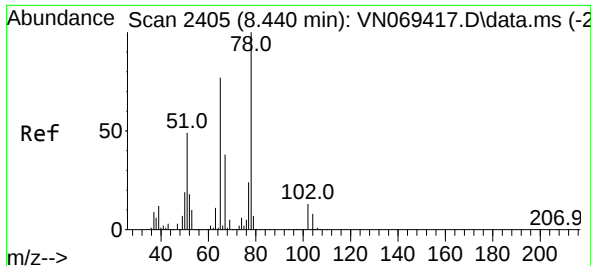
Delta R.T. -0.008 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Tgt Ion:	56	Resp:	32947
Ion	Ratio	Lower	Upper
56	100		
69	146.4	27.1	40.7#
84	101.7	73.4	110.0





#33

1,2-Dichloroethane-d4

Concen: 48.998 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. 0.003 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Instrument :

MSVOA_N

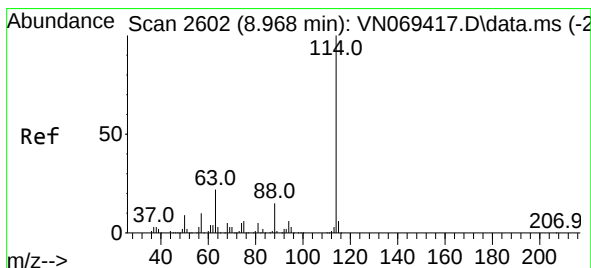
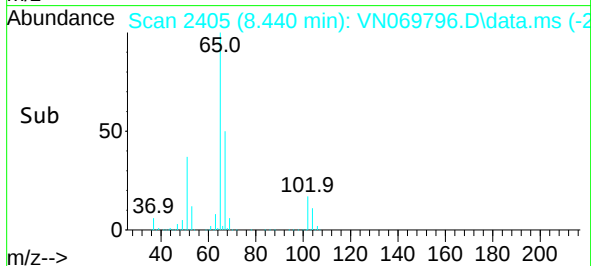
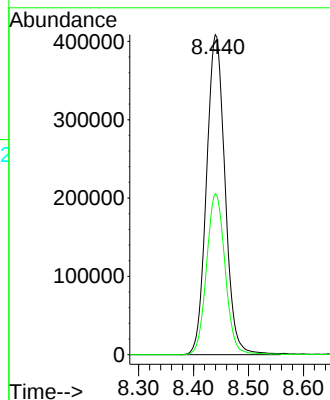
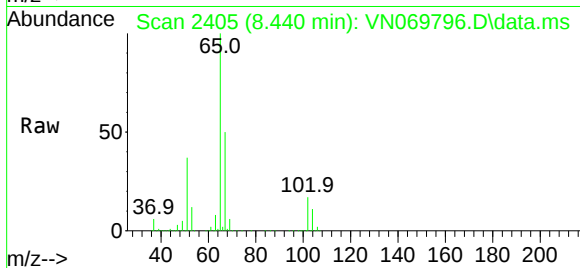
ClientSampleId :

Tgt Ion: 65 Resp: 956724

Ion Ratio Lower Upper

65 100

67 50.6 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: VN069796.D

Acq: 6 Dec 2021 20:36

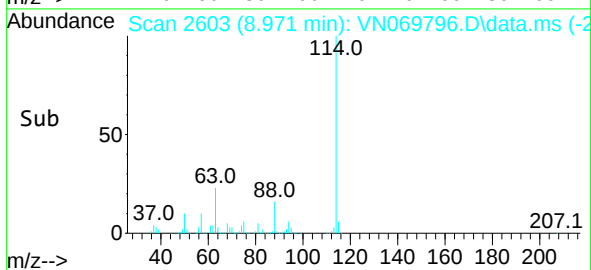
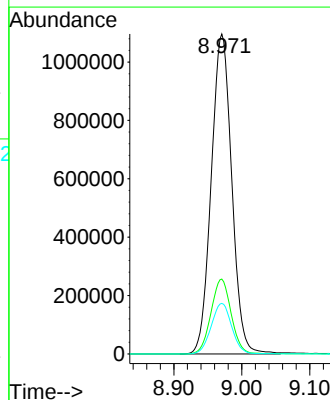
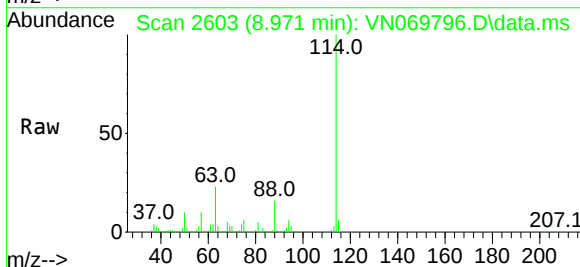
Tgt Ion: 114 Resp: 2298869

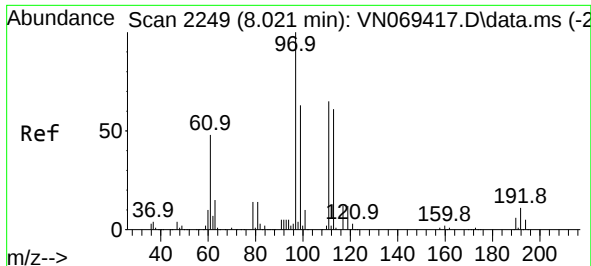
Ion Ratio Lower Upper

114 100

63 23.4 0.0 37.8

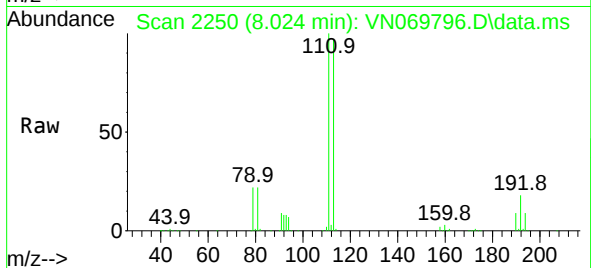
88 15.8 0.0 27.4



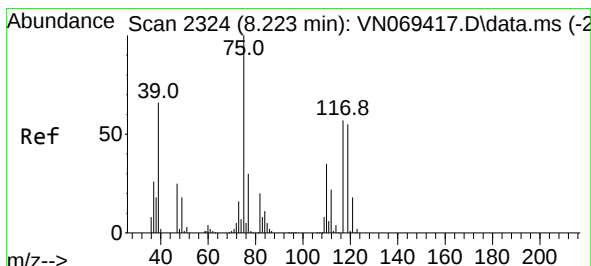
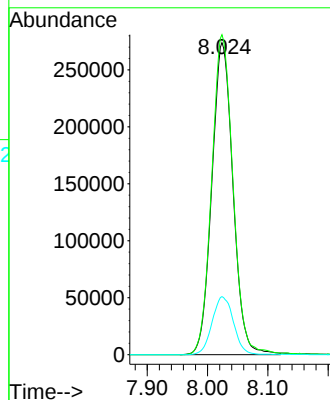
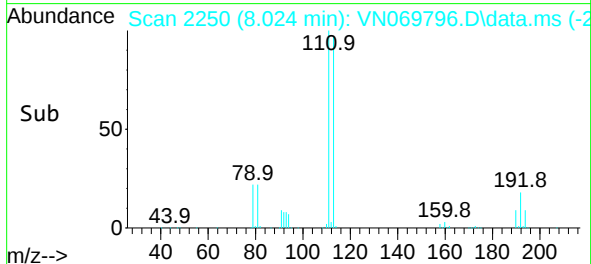


#35
Dibromofluoromethane
Concen: 46.405 ug/l
RT: 8.024 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Instrument :
MSVOA_N
ClientSampleId :

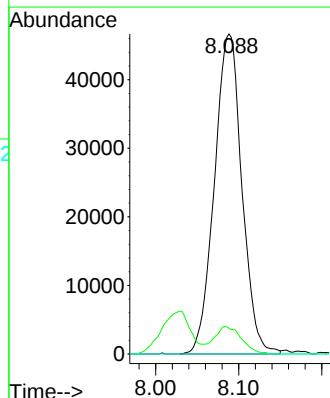
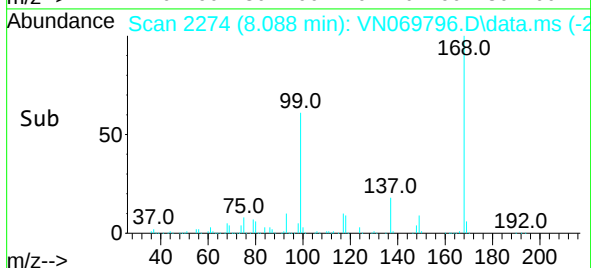
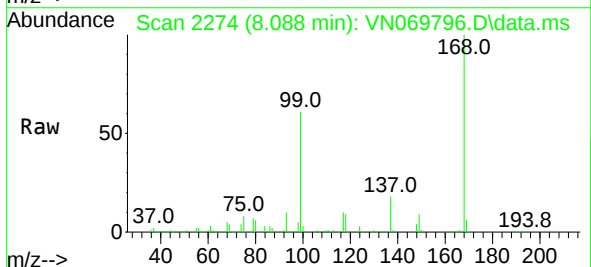


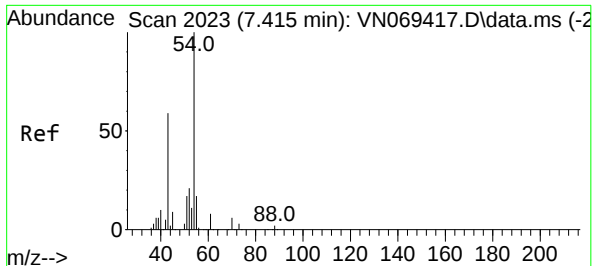
Tgt Ion:113 Resp: 668215
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 18.9 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.904 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Tgt Ion: 75 Resp: 107328
Ion Ratio Lower Upper
75 100
110 8.4 18.4 55.2#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.785 ug/l

RT: 7.345 min Scan# 19

Delta R.T. -0.070 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Instrument :

MSVOA_N

ClientSampleId :

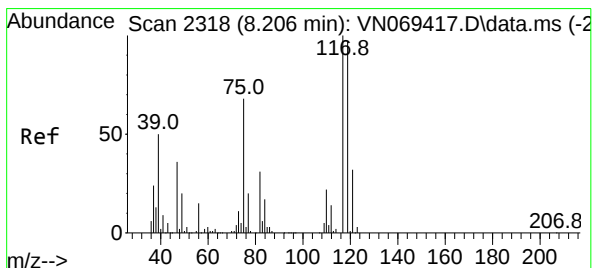
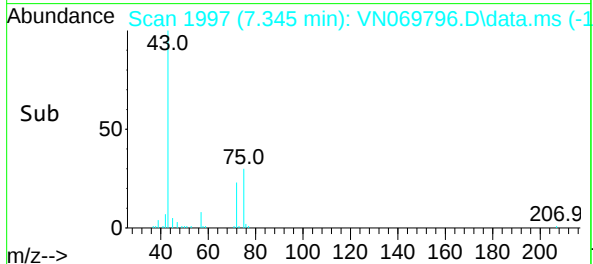
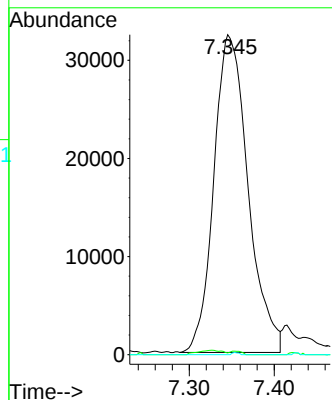
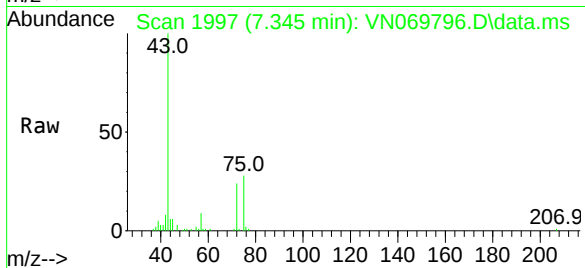
Tgt Ion: 43 Resp: 90707

Ion Ratio Lower Upper

43 100

61 0.4 11.5 17.3#

70 0.1 7.9 11.9#



#38

Carbon Tetrachloride

Concen: 6.087 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.121 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

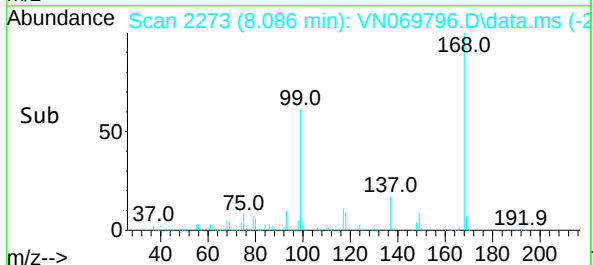
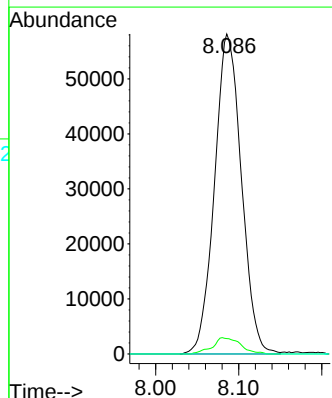
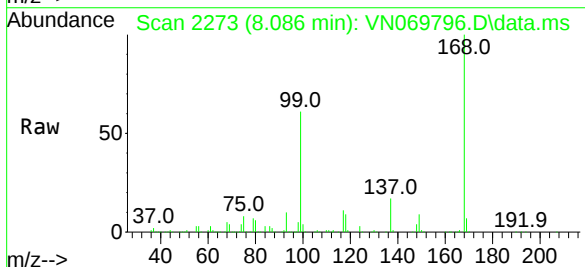
Tgt Ion: 117 Resp: 130622

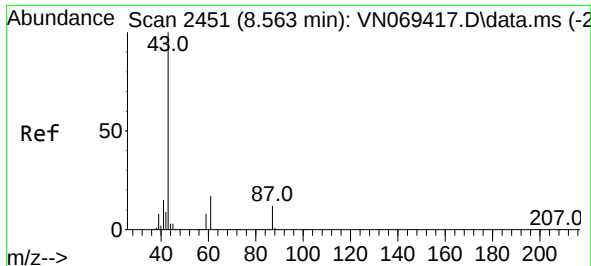
Ion Ratio Lower Upper

117 100

119 4.8 76.1 114.1#

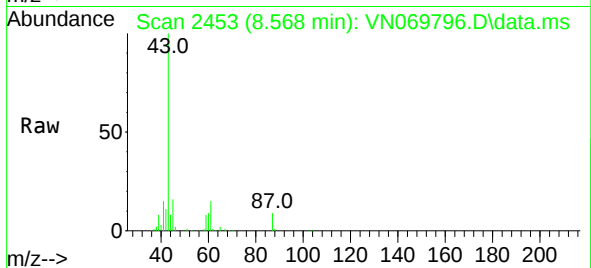
121 0.0 24.2 36.2#



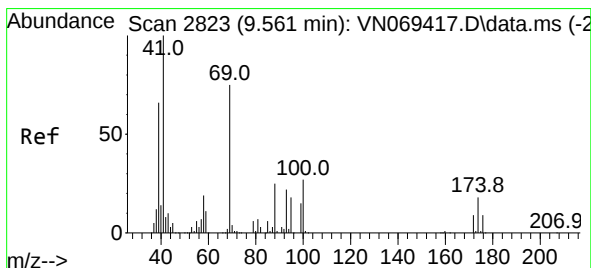
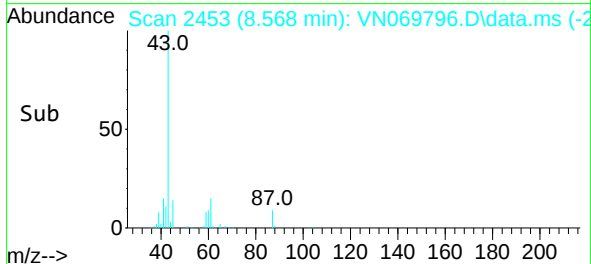
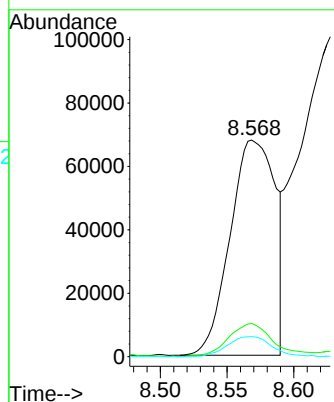


#43
Isopropyl Acetate
Concen: 3.300 ug/l
RT: 8.568 min Scan# 2451
Delta R.T. 0.005 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Instrument :
MSVOA_N
ClientSampleId :

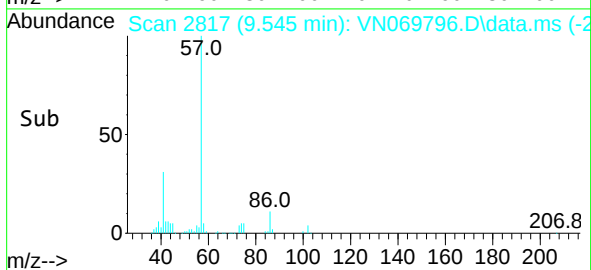
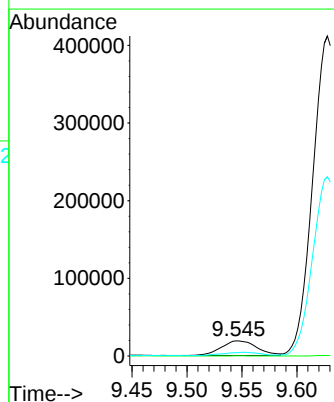
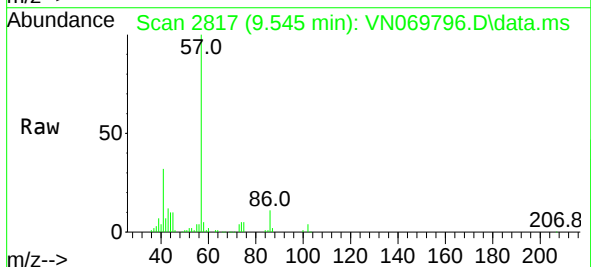


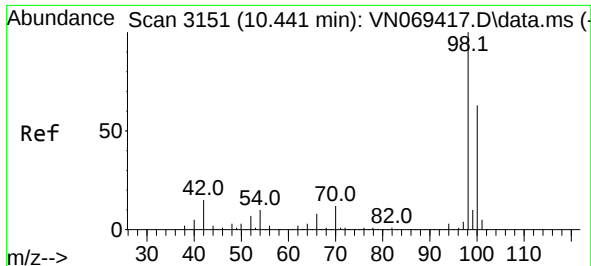
Tgt Ion: 43 Resp: 159057
Ion Ratio Lower Upper
43 100
61 15.5 20.4 30.6#
87 9.2 11.2 16.8#



#48
Methyl methacrylate
Concen: 1.892 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Tgt Ion: 41 Resp: 42551
Ion Ratio Lower Upper
41 100
69 0.4 72.4 108.6#
39 0.0 58.4 87.6#





#50

Toluene-d8

Concen: 51.073 ug/l

RT: 10.443 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Instrument :

MSVOA_N

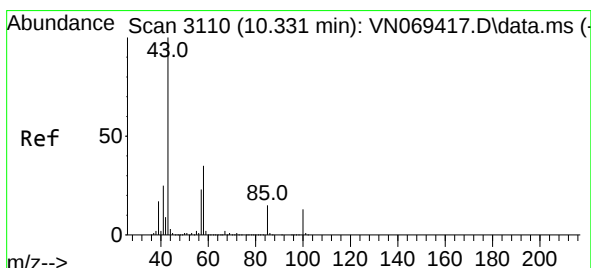
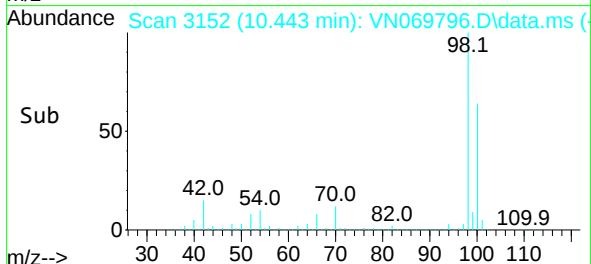
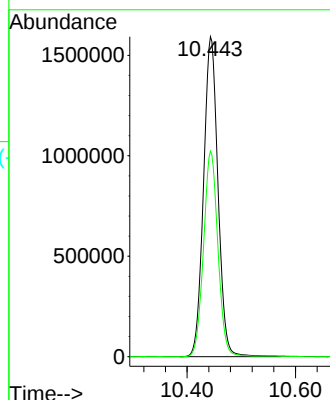
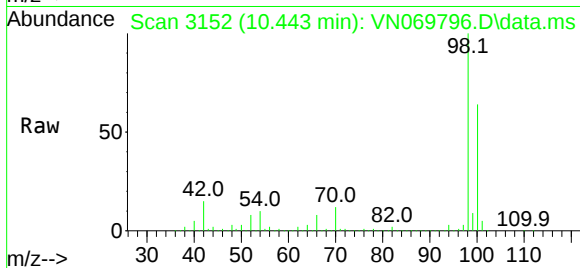
ClientSampleId :

Tgt Ion: 98 Resp: 2952994

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6



#51

4-Methyl-2-Pentanone

Concen: 0.752 ug/l

RT: 10.336 min Scan# 3112

Delta R.T. 0.003 min

Lab File: VN069796.D

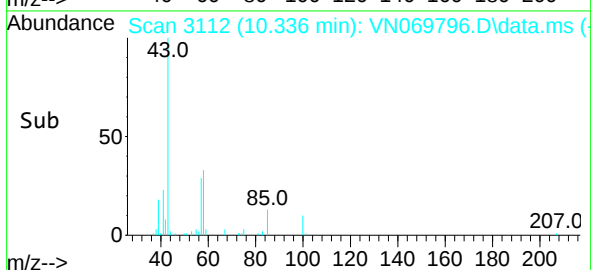
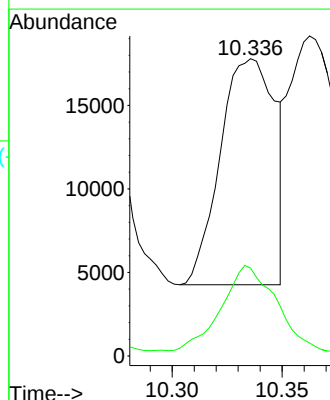
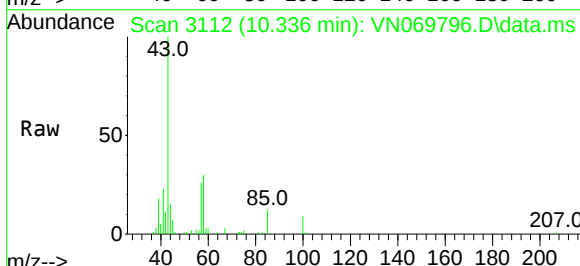
Acq: 6 Dec 2021 20:36

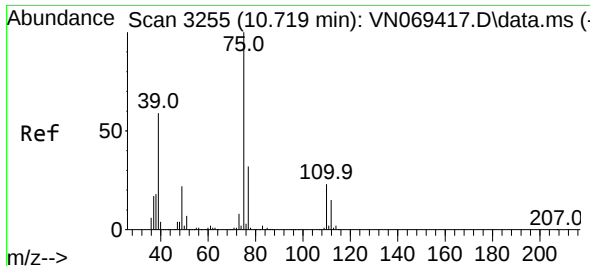
Tgt Ion: 43 Resp: 23513

Ion Ratio Lower Upper

43 100

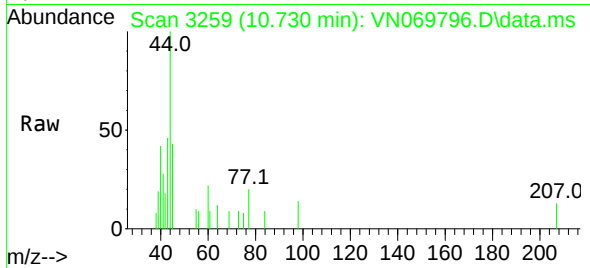
58 44.0 30.4 45.6



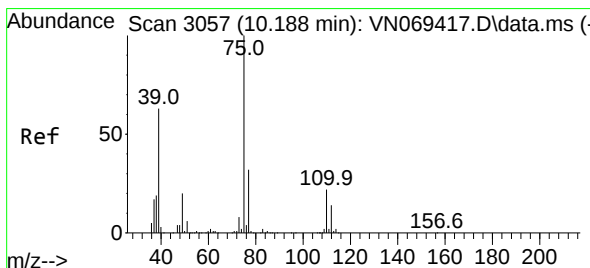
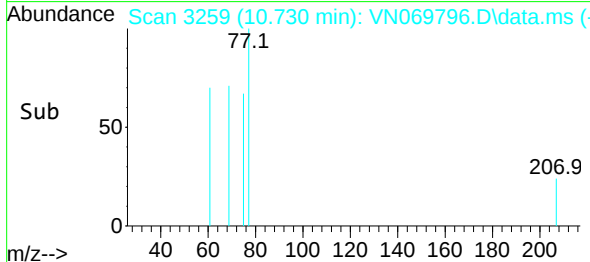
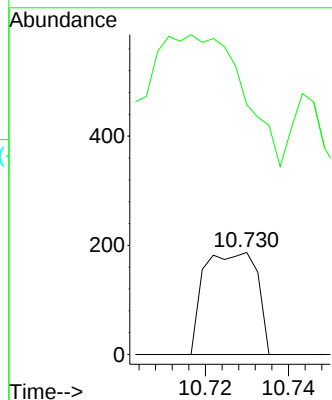


#53
t-1,3-Dichloropropene
Concen: 2.800 ug/l
RT: 10.730 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Instrument :
MSVOA_N
ClientSampleId :

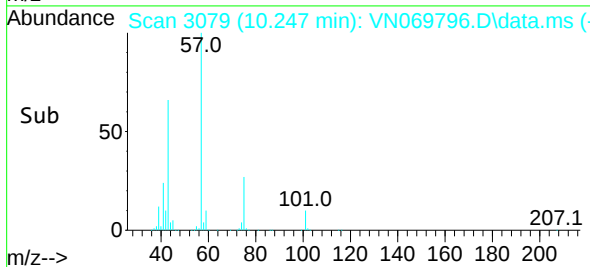
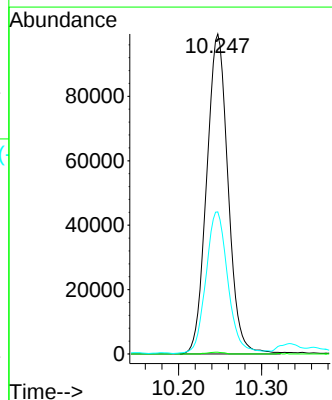
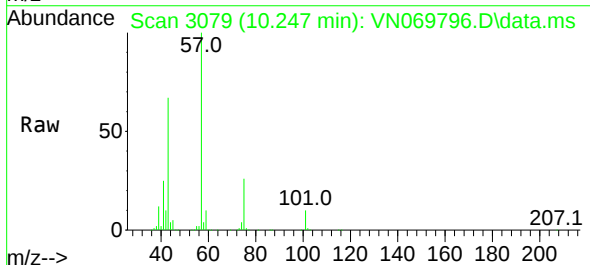


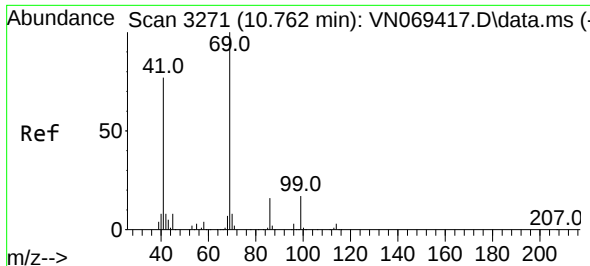
Tgt Ion: 75 Resp: 166
Ion Ratio Lower Upper
75 100
77 61.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 8.057 ug/l
RT: 10.247 min Scan# 3079
Delta R.T. 0.056 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

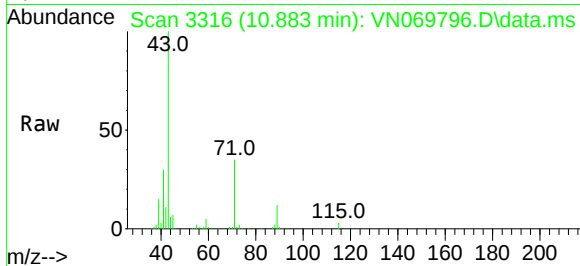
Tgt Ion: 75 Resp: 177690
Ion Ratio Lower Upper
75 100
77 0.5 26.4 39.6#
39 44.1 42.5 63.7



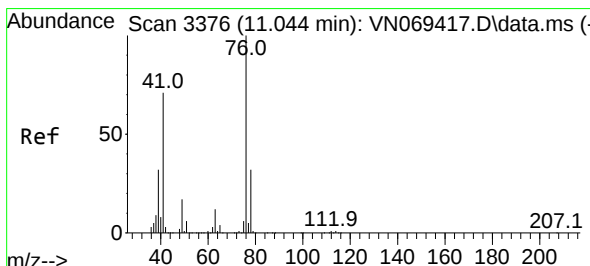
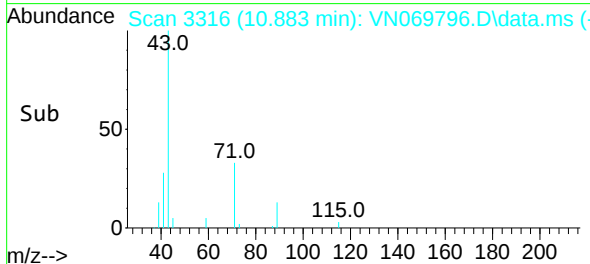
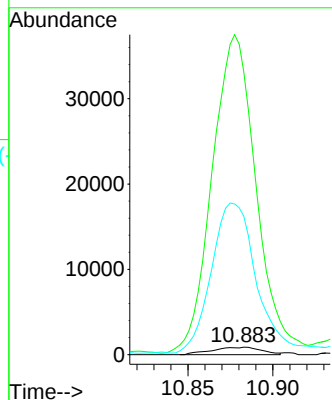


#56
Ethyl methacrylate
Concen: 2.334 ug/l
RT: 10.883 min Scan# 31
Delta R.T. 0.121 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Instrument :
MSVOA_N
ClientSampleId :

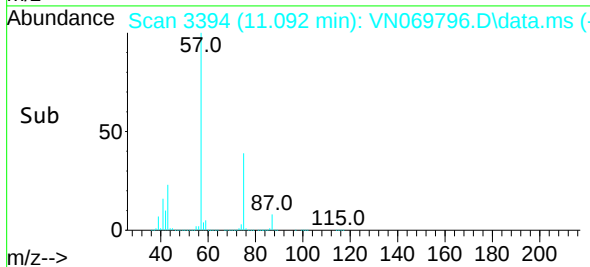
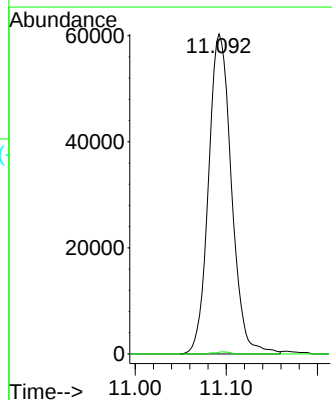
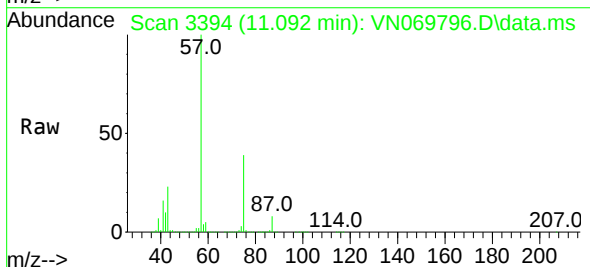


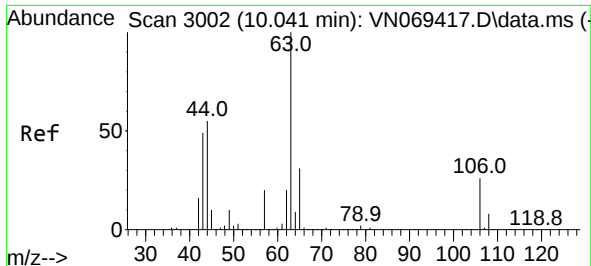
Tgt Ion: 69 Resp: 1783
Ion Ratio Lower Upper
69 100
41 3758.9 51.4 77.0#
39 1840.3 34.6 52.0#



#57
1,3-Dichloropropane
Concen: 3.640 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Tgt Ion: 76 Resp: 105618
Ion Ratio Lower Upper
76 100
78 0.4 25.7 38.5#

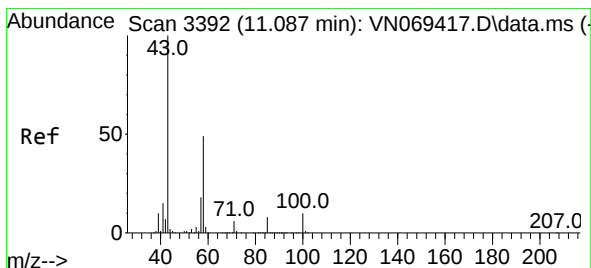
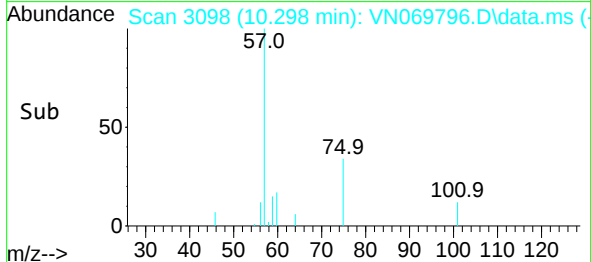
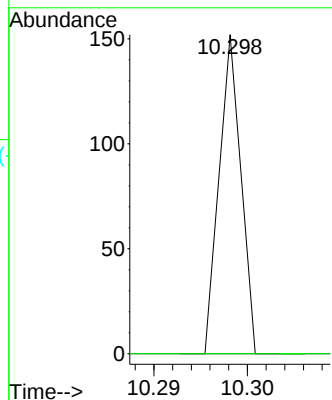
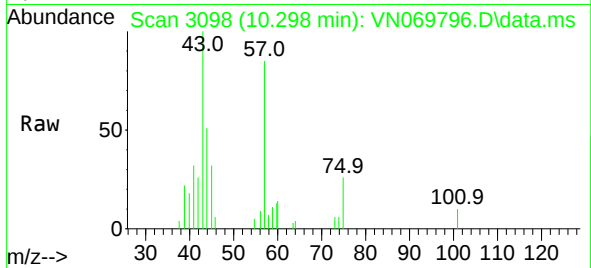




#58
2-Chloroethyl Vinyl ether
Concen: 18.392 ug/l
RT: 10.298 min Scan# 3002
Delta R.T. 0.255 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

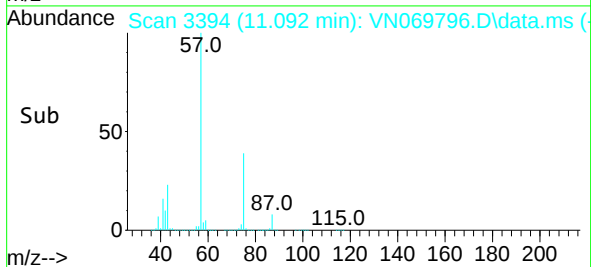
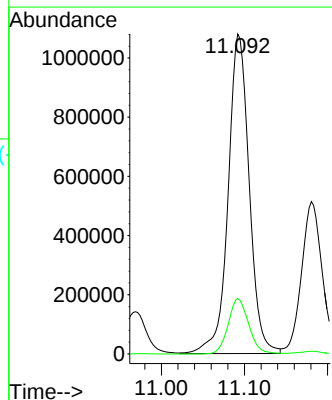
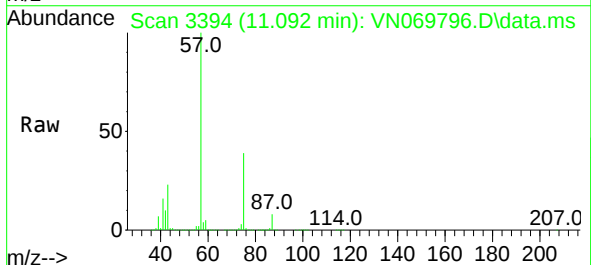
Instrument :
MSVOA_N
ClientSampleId :

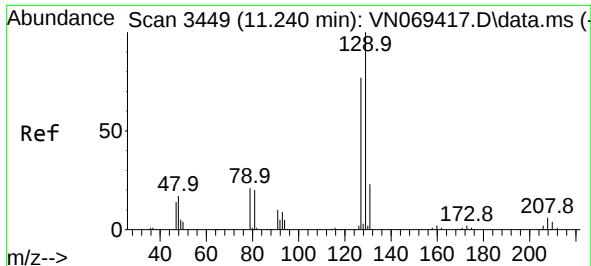
Tgt Ion: 63 Resp: 24
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 80.482 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Tgt Ion: 43 Resp: 1903759
Ion Ratio Lower Upper
43 100
58 16.9 26.9 80.7#

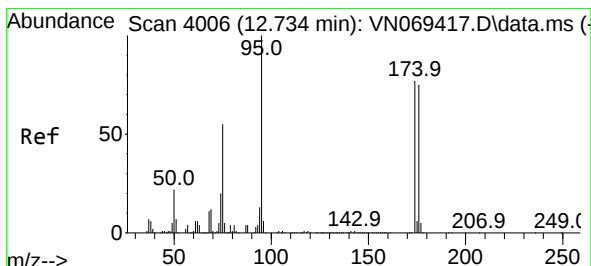
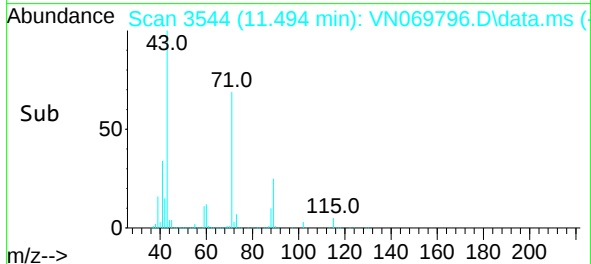
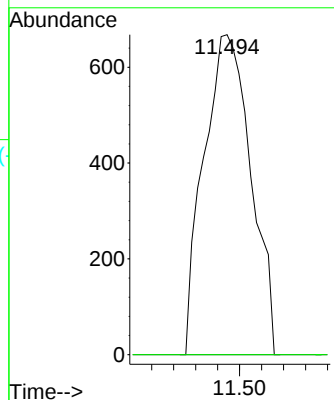
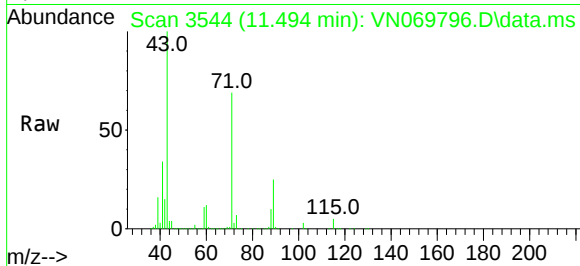




#60
Dibromochloromethane
Concen: 2.430 ug/l
RT: 11.494 min Scan# 311
Delta R.T. 0.254 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

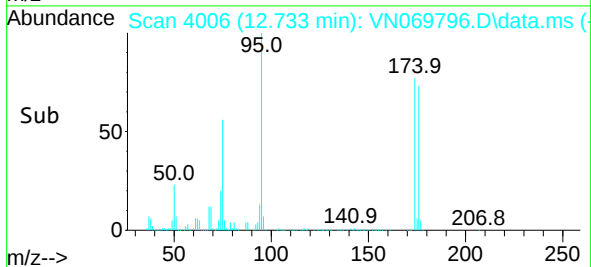
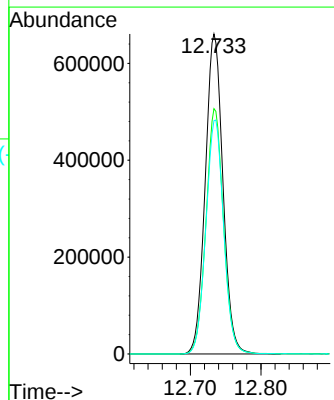
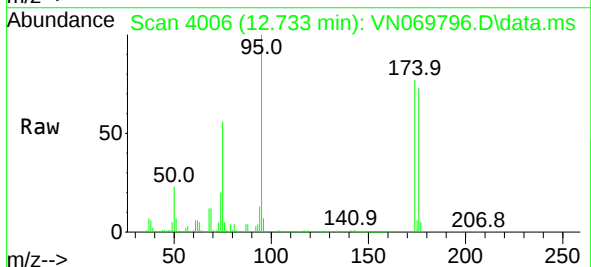
Instrument :
MSVOA_N
ClientSampleId :

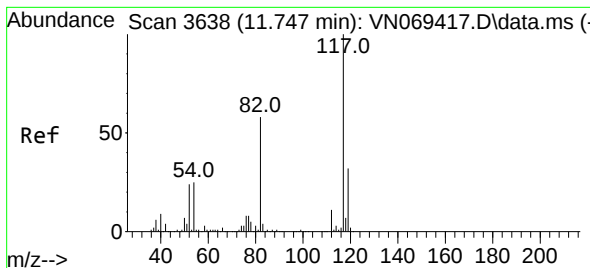
Tgt Ion:129 Resp: 994
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 54.841 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.002 min
Lab File: VN069796.D
Acq: 6 Dec 2021 20:36

Tgt Ion: 95 Resp: 1148744
Ion Ratio Lower Upper
95 100
174 76.2 0.0 187.2
176 73.6 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.746 min Scan# 3

Delta R.T. 0.000 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Instrument :

MSVOA_N

ClientSampleId :

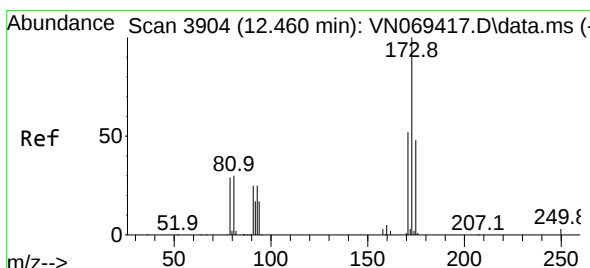
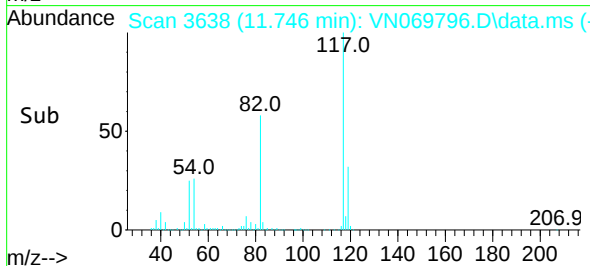
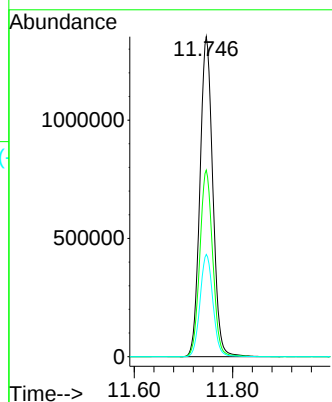
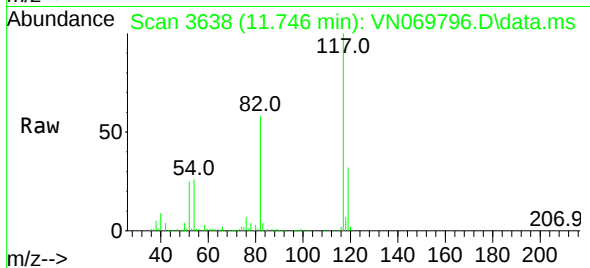
Tgt Ion:117 Resp: 2448905

Ion Ratio Lower Upper

117 100

82 58.3 42.4 63.6

119 32.0 25.4 38.2



#71

Bromoform

Concen: 2.837 ug/l

RT: 12.720 min Scan# 4001

Delta R.T. 0.260 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

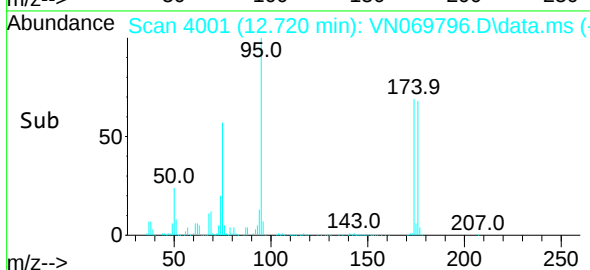
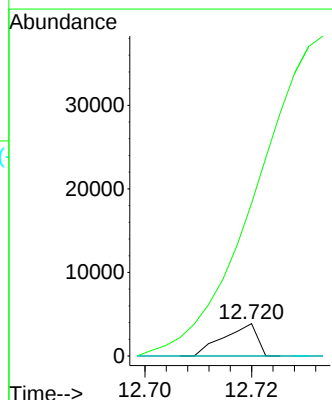
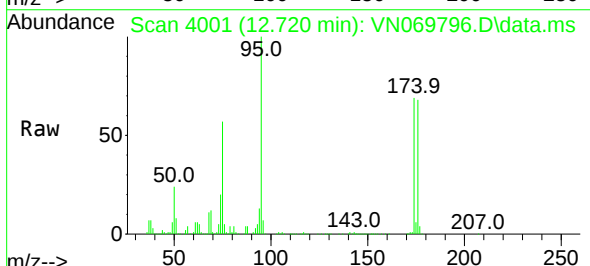
Tgt Ion:173 Resp: 1678

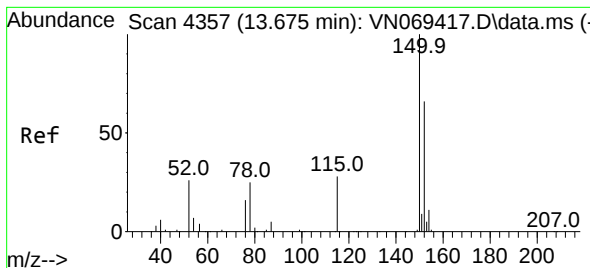
Ion Ratio Lower Upper

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. 0.000 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Instrument :

MSVOA_N

ClientSampleId :

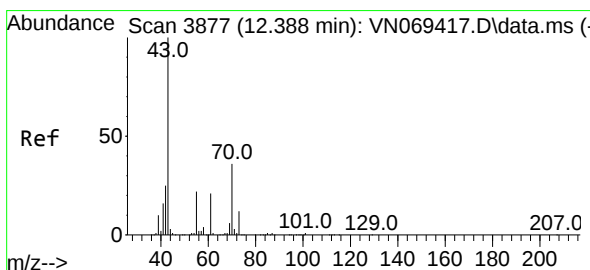
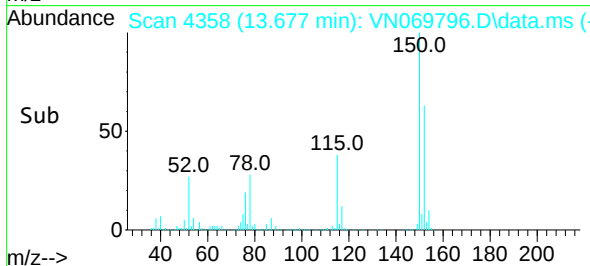
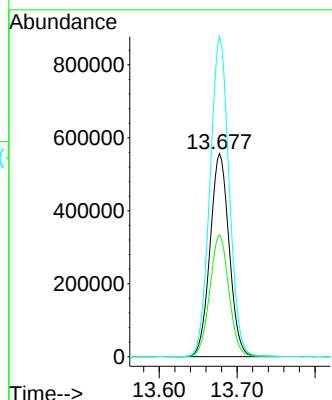
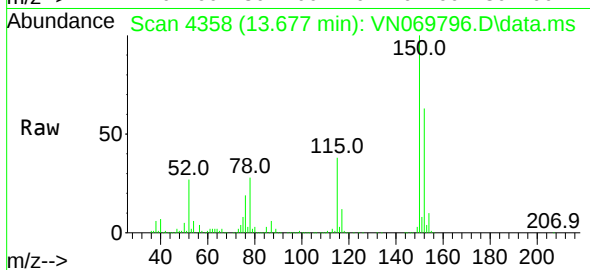
Tgt Ion:152 Resp: 947080

Ion Ratio Lower Upper

152 100

115 60.1 27.5 82.5

150 158.5 0.0 344.4



#74

N-ethyl acetate

Concen: 0.317 ug/l

RT: 12.355 min Scan# 3865

Delta R.T. -0.032 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Tgt Ion: 43 Resp: 11800

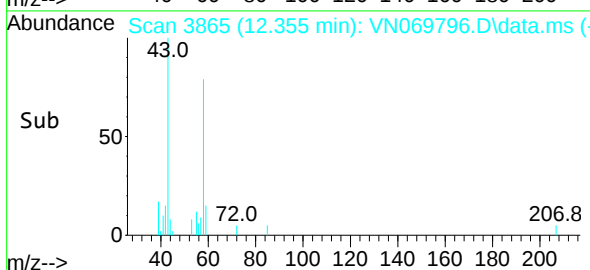
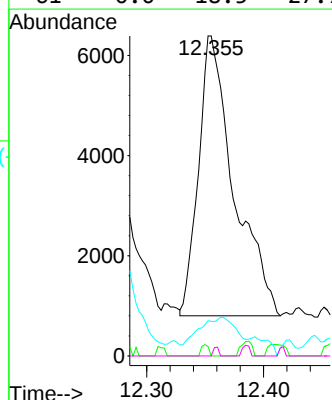
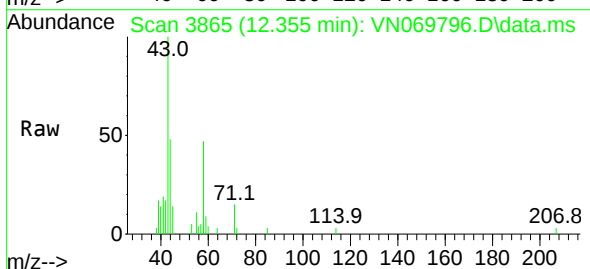
Ion Ratio Lower Upper

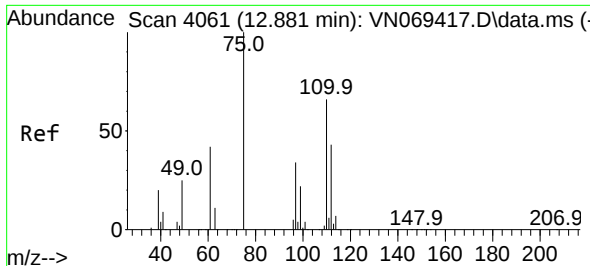
43 100

70 0.8 33.4 50.0#

55 9.6 19.3 28.9#

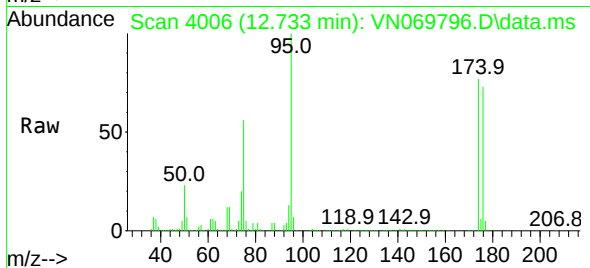
61 0.0 18.5 27.7#



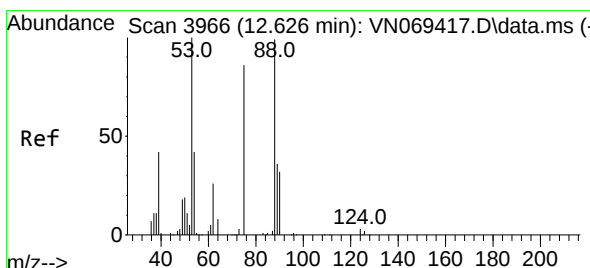
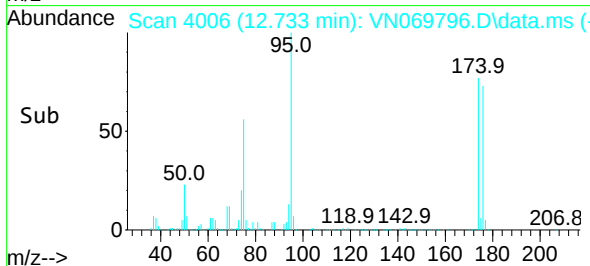
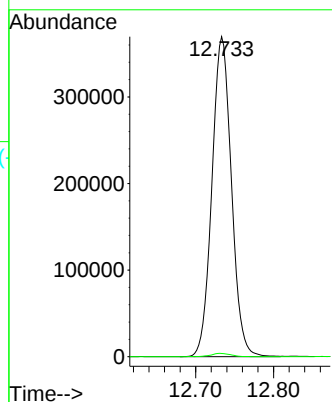


#76
 1,2,3-Trichloropropane
 Concen: 23.614 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. -0.147 min
 Lab File: VN069796.D
 Acq: 6 Dec 2021 20:36

Instrument :
 MSVOA_N
 ClientSampleId :

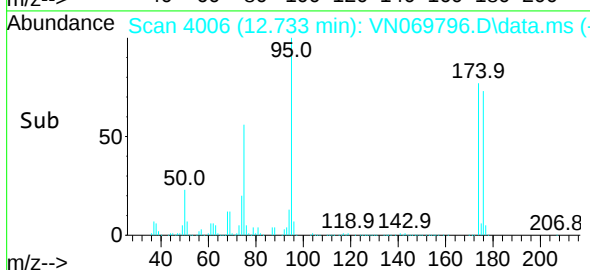
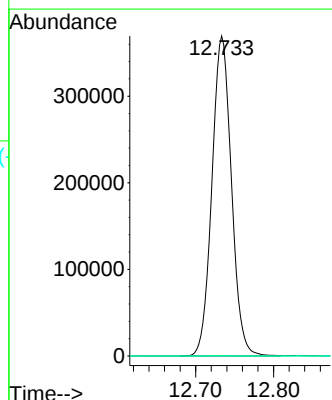
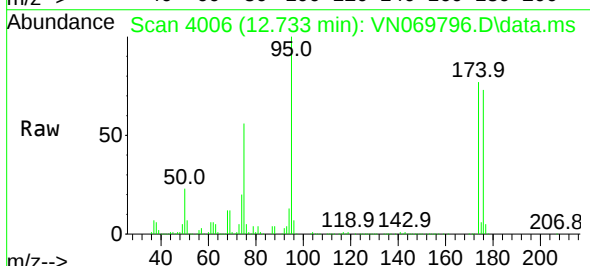


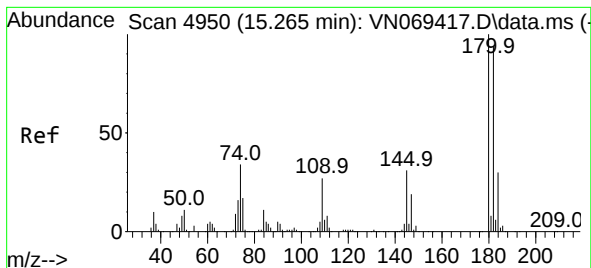
Tgt Ion: 75 Resp: 641357
 Ion Ratio Lower Upper
 75 100
 77 1.1 82.6 247.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.069 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. 0.107 min
 Lab File: VN069796.D
 Acq: 6 Dec 2021 20:36

Tgt Ion: 75 Resp: 641357
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.5 135.7#
 89 0.0 38.2 57.4#





#93

1,2,4-Trichlorobenzene

Concen: 2.896 ug/l

RT: 15.262 min Scan# 4950

Delta R.T. -0.003 min

Lab File: VN069796.D

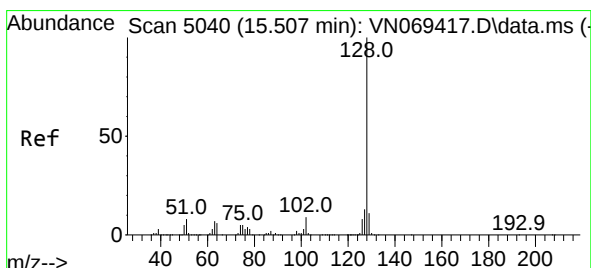
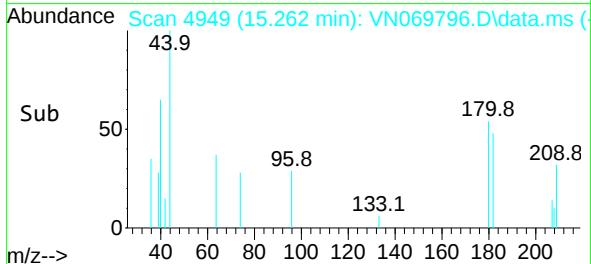
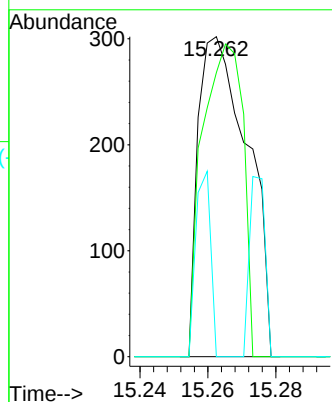
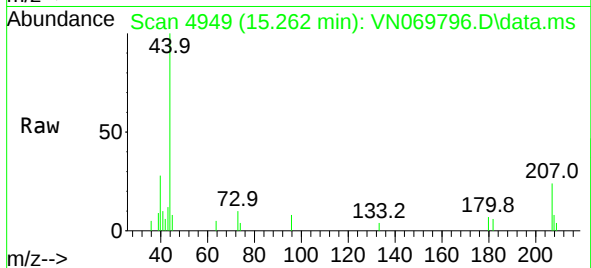
Acq: 6 Dec 2021 20:36

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:180	Resp:	303
Ion Ratio	Lower	Upper
180	100	
182	80.2	48.3 144.9
145	17.5	14.5 43.5



#95

Naphthalene

Concen: 4.051 ug/l

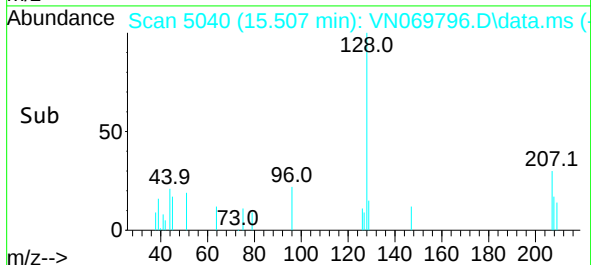
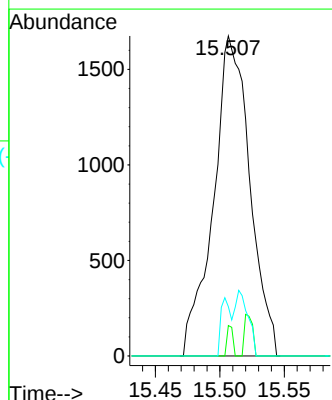
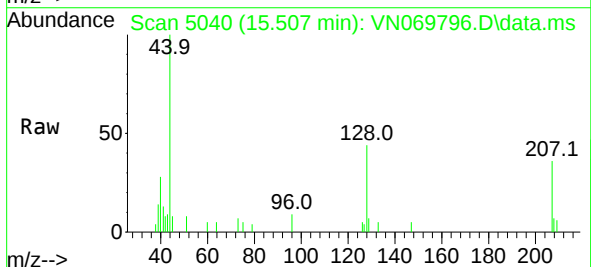
RT: 15.507 min Scan# 5040

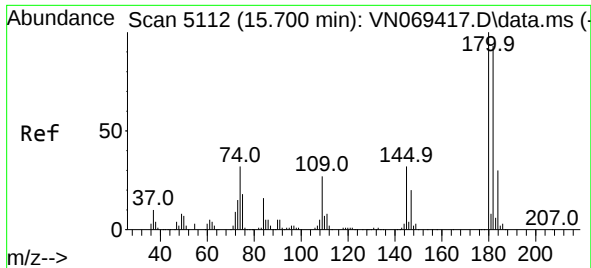
Delta R.T. -0.000 min

Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Tgt Ion:128	Resp:	3297
Ion Ratio	Lower	Upper
128	100	
127	1.5	10.5 15.7#
129	4.9	8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 2.459 ug/l

RT: 15.694 min Scan# 51

Delta R.T. -0.008 min

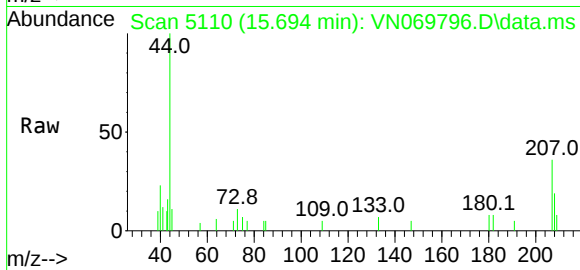
Lab File: VN069796.D

Acq: 6 Dec 2021 20:36

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 372

Ion Ratio Lower Upper

180 100

182 158.1 47.4 142.2#

145 13.2 15.0 45.1#

