

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110118\
 Data File : VN052098.D
 Acq On : 1 Nov 2018 12:54
 Operator : MD\SY
 Sample : J5757-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-24

Quant Time: Nov 02 05:44:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	60703	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	349711	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	286510	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	135621	30.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.33%
60) 4-Bromofluorobenzene	12.40	95	126814	27.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.23%
63) Toluene-d8	10.09	98	430535	31.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.53%

Target Compounds

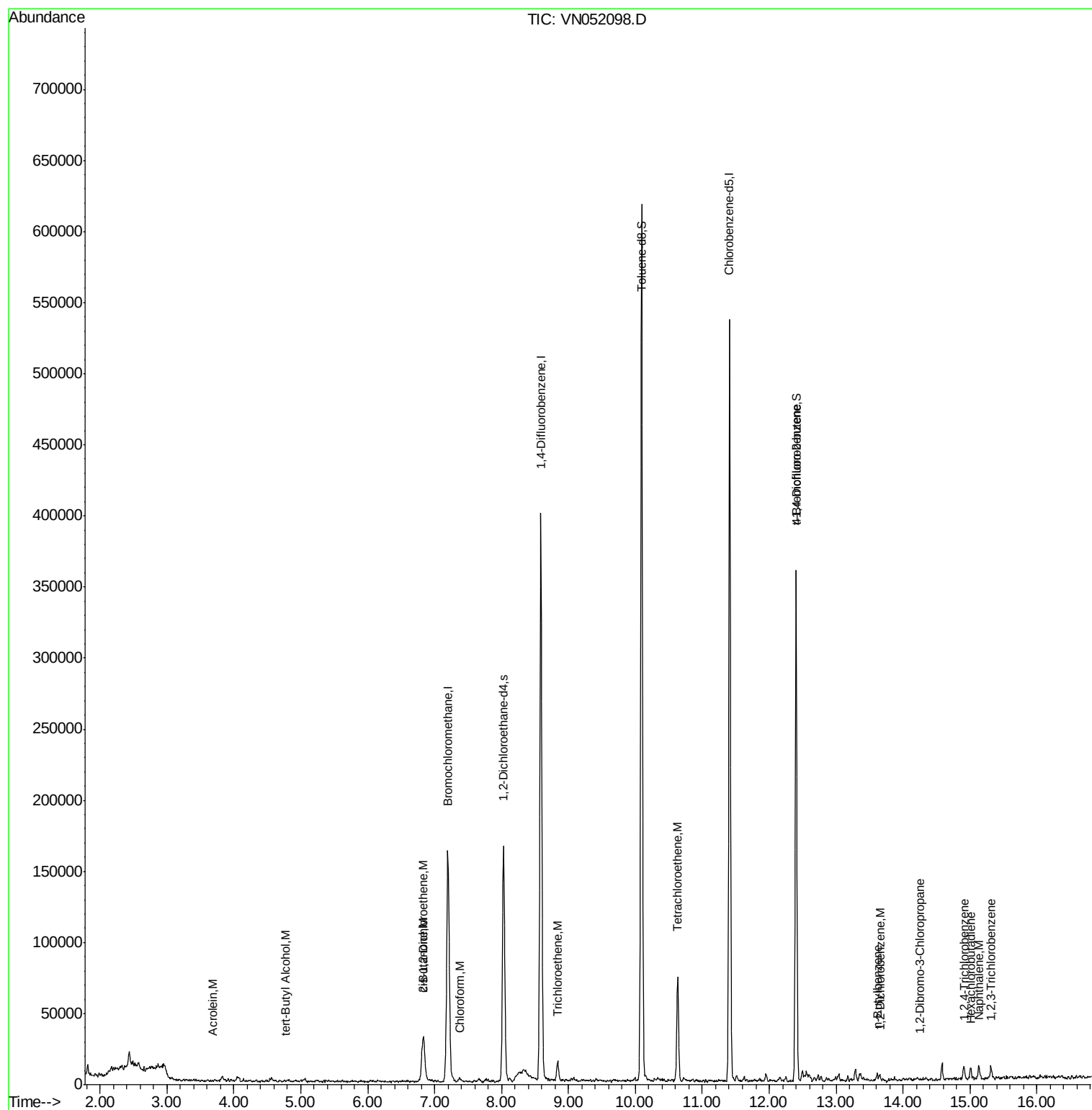
					Qvalue	
13) Acrolein	3.68	56	110	0.367	ug/l	86
22) cis-1,2-Dichloroethene	6.83	96	13217	3.077	ug/l	92
23) tert-Butyl Alcohol	4.77	59	381	1.952	ug/l #	99
25) Chloroform	7.37	83	1759	0.242	ug/l #	57
30) 2-Butanone	6.84	43	449	0.304	ug/l #	1
37) Trichloroethene	8.83	130	4286	1.053	ug/l	98
61) Tetrachloroethene	10.63	164	15462	4.962	ug/l	96
77) t-1,4-Dichloro-2-butene	12.40	75	67458	65.121	ug/l #	9
85) n-Butylbenzene	13.62	91	3024	0.251	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	1514	0.238	ug/l	94
88) 1,2-Dibromo-3-Chloropropan	14.27	75	177	0.344	ug/l #	6
89) 1,2,4-Trichlorobenzene	14.91	180	1216	0.470	ug/l #	3
90) Hexachlorobutadiene	15.01	225	996	0.704	ug/l	96
91) Naphthalene	15.13	128	6963	1.167	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.31	180	2766	1.226	ug/l	81

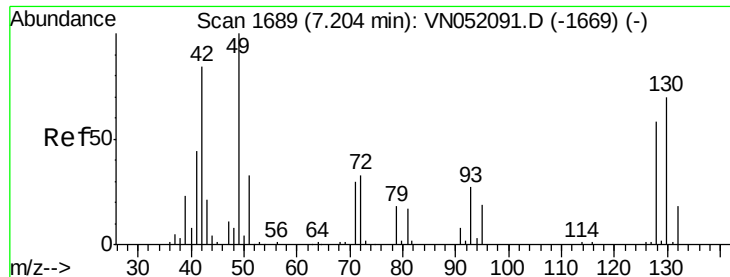
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN110118\
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Quant Time: Nov 02 05:44:12 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\624N110118W.M
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN052098.D

Acq: 1 Nov 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

2-AVE-24

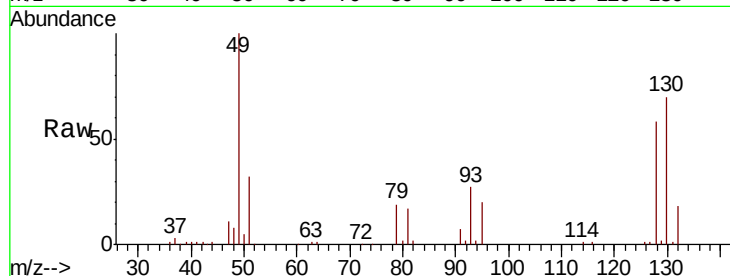
Tgt Ion:128 Resp: 60703

Ion Ratio Lower Upper

128 100

49 174.4 0.0 453.7

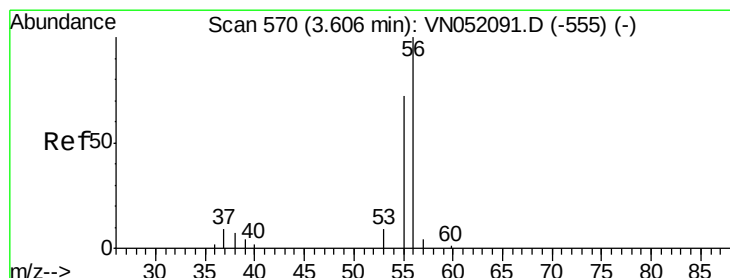
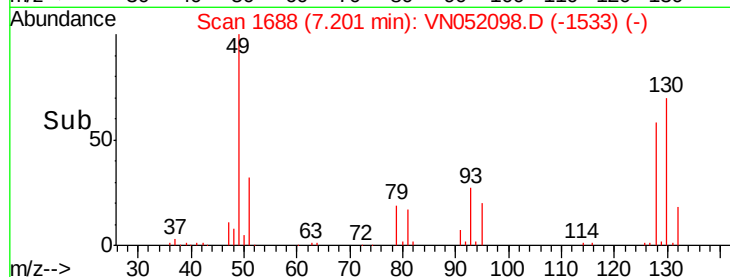
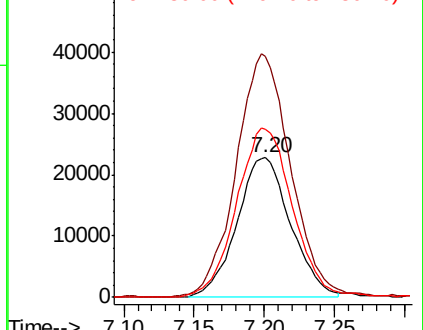
130 125.6 0.0 308.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.367 ug/l

RT: 3.68 min Scan# 592

Delta R.T. 0.07 min

Lab File: VN052098.D

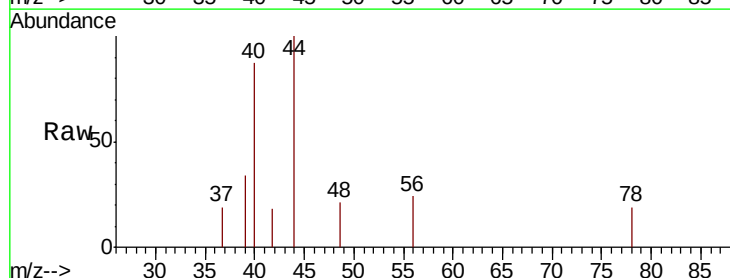
Acq: 1 Nov 2018 12:54

Tgt Ion: 56 Resp: 110

Ion Ratio Lower Upper

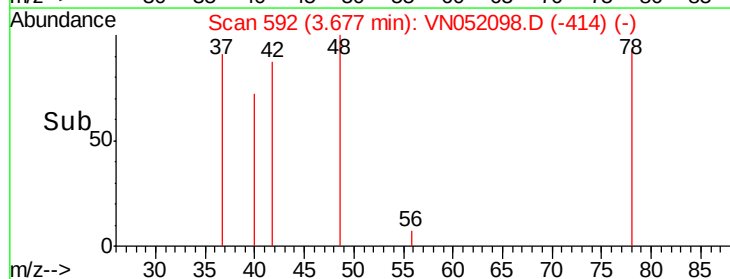
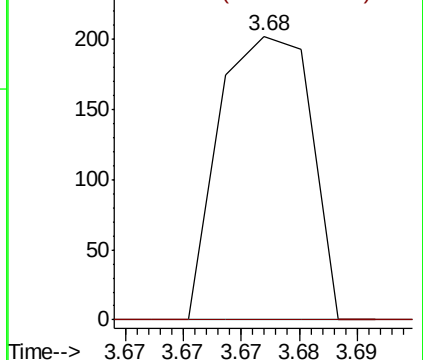
56 100

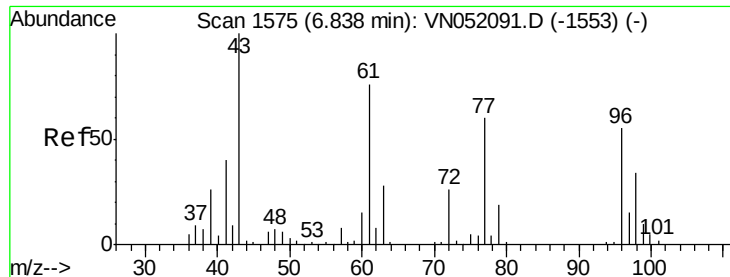
55 59.1 56.2 84.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#22

cis-1,2-Dichloroethene

Concen: 3.077 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052098.D

Acq: 1 Nov 2018 12:54

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-24

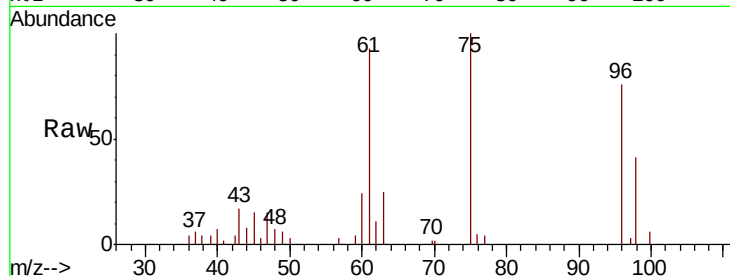
Tgt Ion: 96 Resp: 13217

Ion Ratio Lower Upper

96 100

61 134.3 117.6 176.4

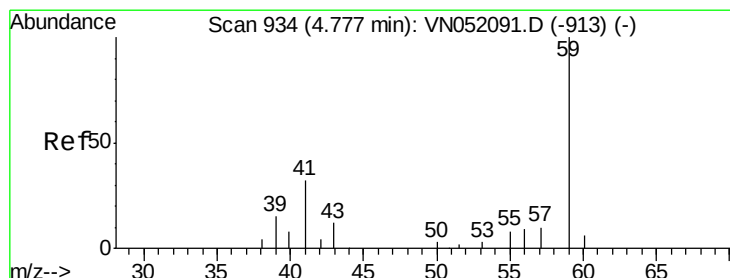
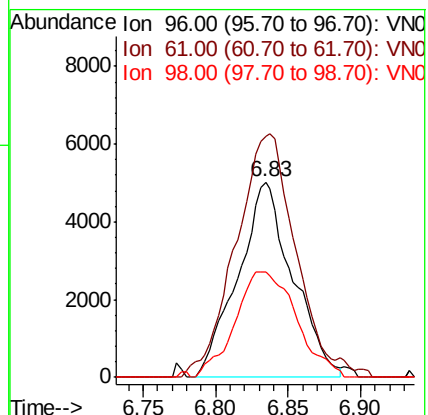
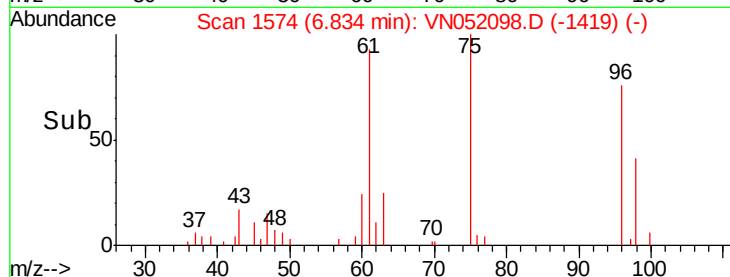
98 60.3 51.0 76.4



Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#23

tert-Butyl Alcohol

Concen: 1.952 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.00 min

Lab File: VN052098.D

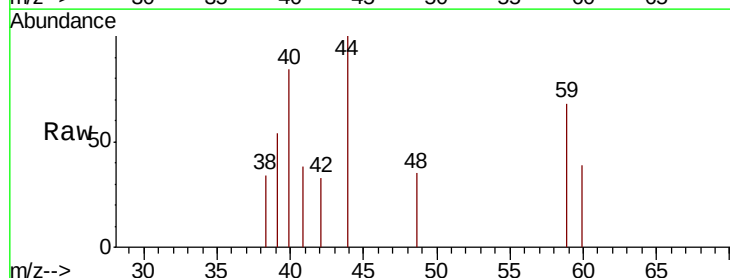
Acq: 1 Nov 2018 12:54

Tgt Ion: 59 Resp: 381

Ion Ratio Lower Upper

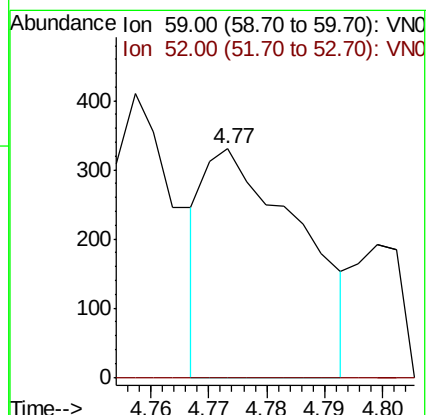
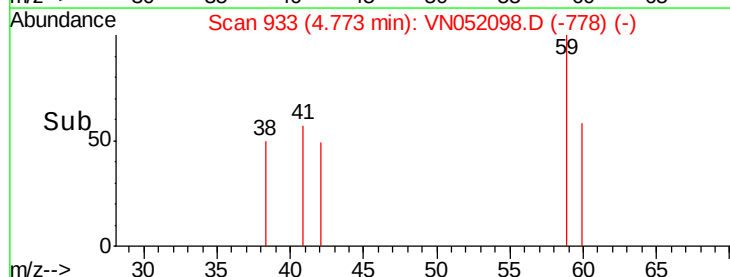
59 100

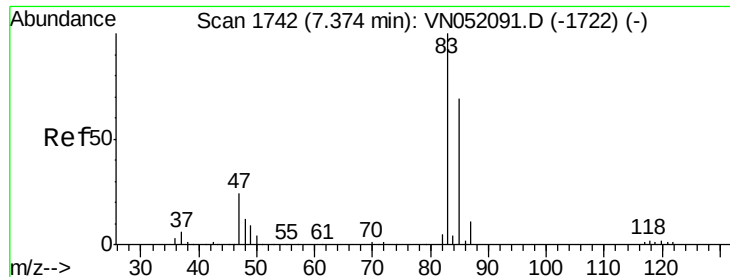
52 0.0 0.3 0.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

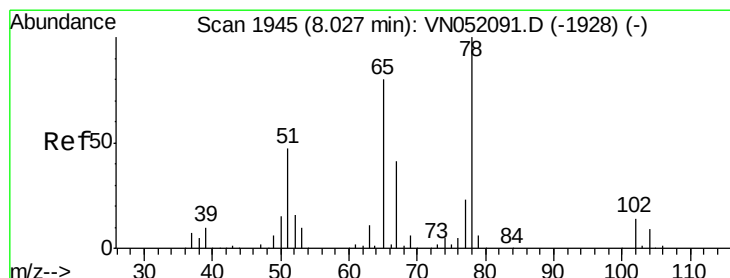
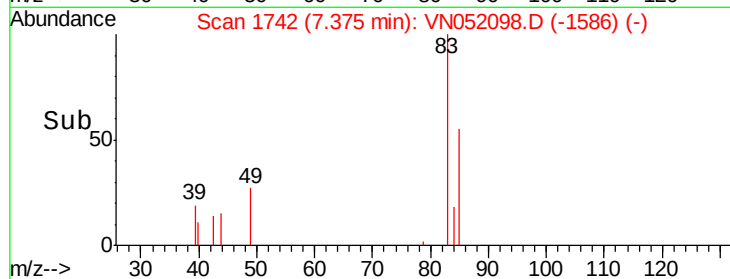
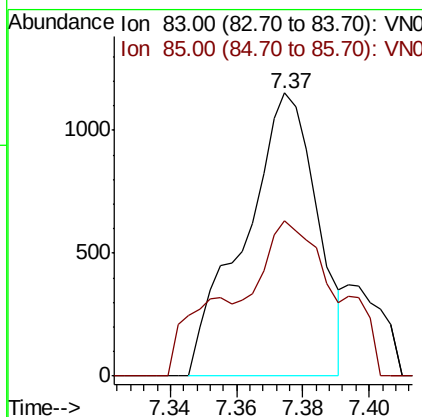
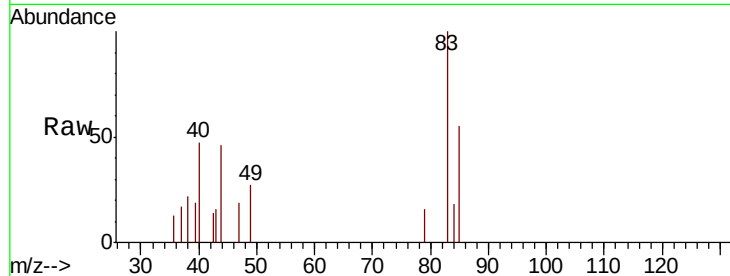




#25
 Chloroform
 Concen: 0.242 ug/l
 RT: 7.37 min Scan# 1742
 Delta R.T. 0.00 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

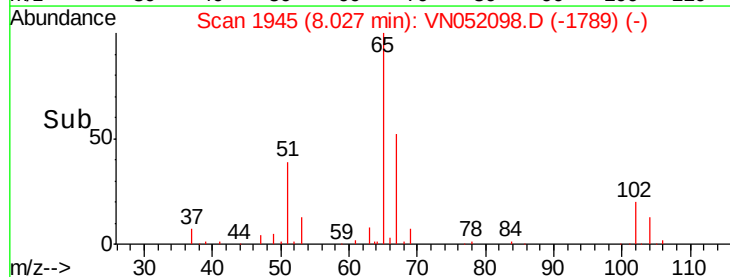
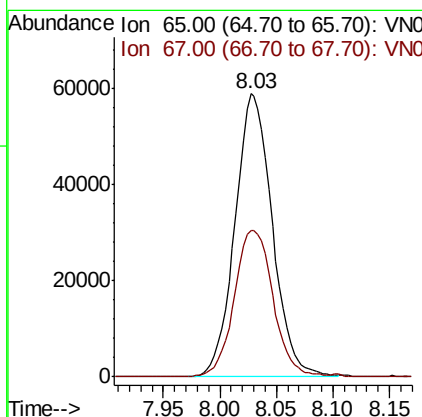
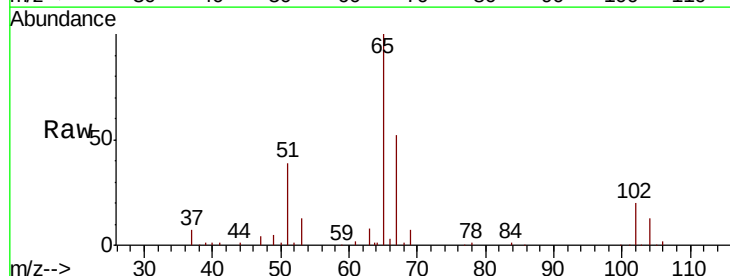
Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-24

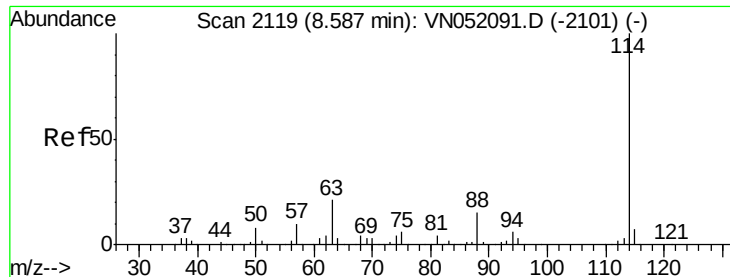
Tgt Ion: 83 Resp: 1759
 Ion Ratio Lower Upper
 83 100
 85 33.8 54.9 82.3#



#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

Tgt Ion: 65 Resp: 135621
 Ion Ratio Lower Upper
 65 100
 67 53.7 42.6 64.0

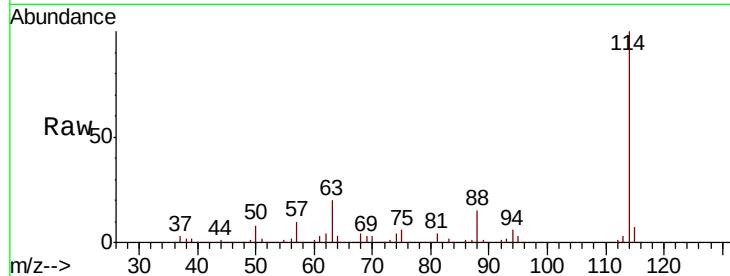




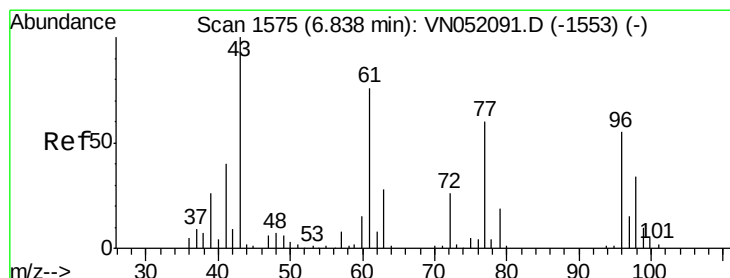
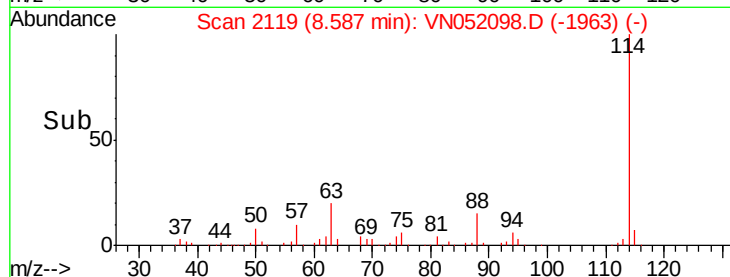
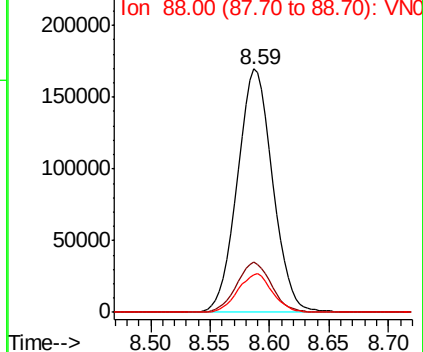
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-24

Tgt Ion: 114 Resp: 349711
 Ion Ratio Lower Upper
 114 100
 63 20.3 17.5 26.3
 88 15.5 12.6 18.8

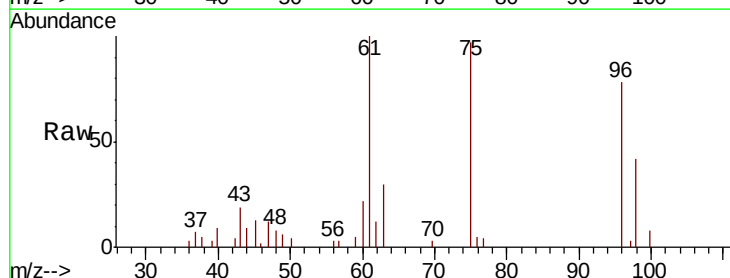


Abundance Ion 114.00 (113.70 to 114.70): VN052091.D (-2101) (-)
 Ion 63.00 (62.70 to 63.70): VN052091.D (-2101) (-)
 Ion 88.00 (87.70 to 88.70): VN052091.D (-2101) (-)

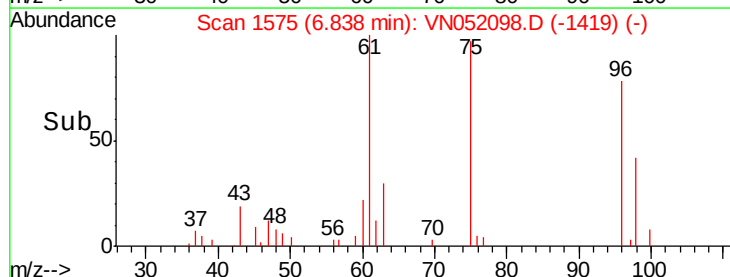
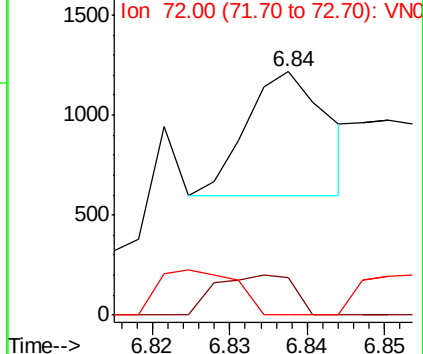


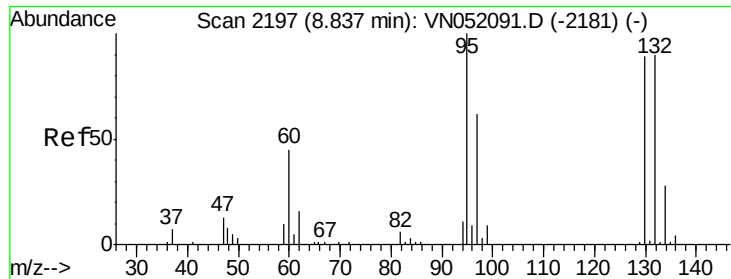
#30
 2-Butanone
 Concen: 0.304 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

Tgt Ion: 43 Resp: 449
 Ion Ratio Lower Upper
 43 100
 57 31.0 6.6 9.8#
 72 73.3 9.2 13.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052091.D (-1553) (-)
 Ion 57.00 (56.70 to 57.70): VN052091.D (-1553) (-)
 Ion 72.00 (71.70 to 72.70): VN052091.D (-1553) (-)

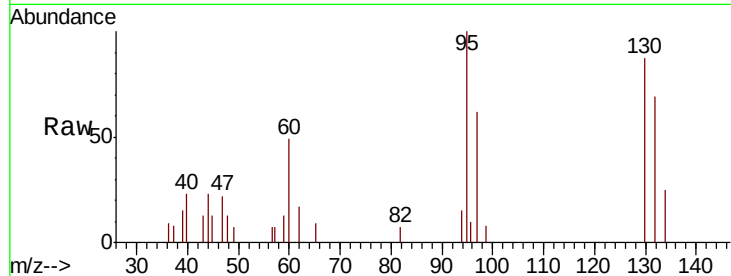




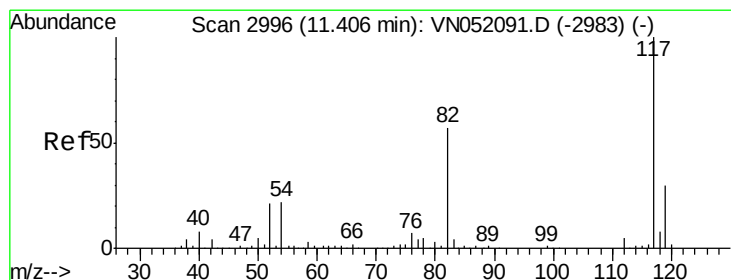
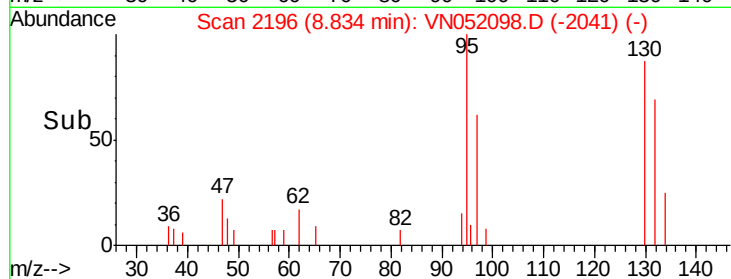
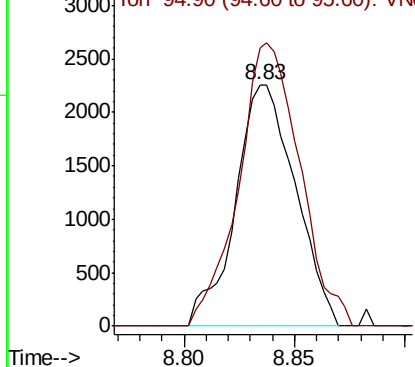
#37
 Trichloroethene
 Concen: 1.053 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-24

Tgt Ion:130 Resp: 4286
 Ion Ratio Lower Upper
 130 100
 95 114.9 89.9 134.9

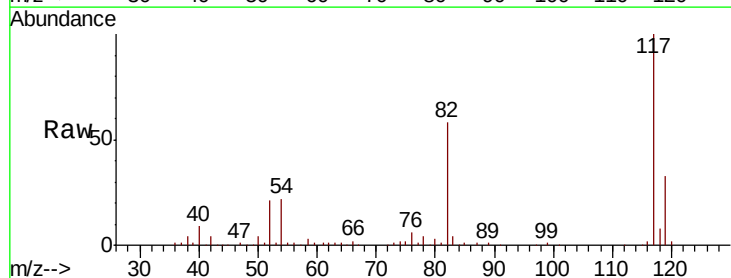


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

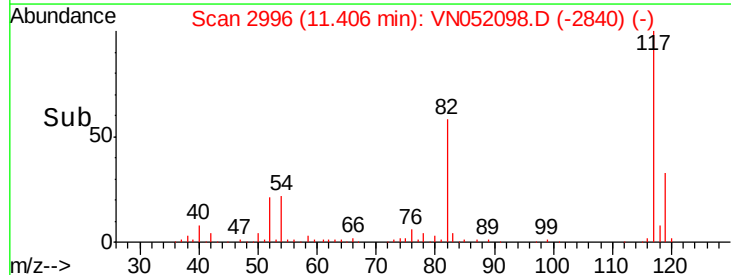
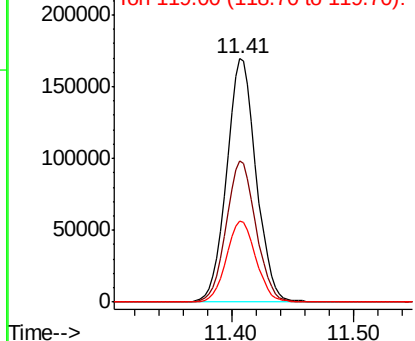


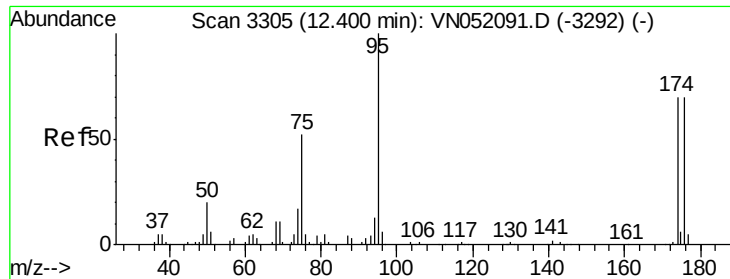
#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

Tgt Ion:117 Resp: 286510
 Ion Ratio Lower Upper
 117 100
 82 58.5 45.0 67.6
 119 33.4 24.2 36.4



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 82.00 (81.70 to 82.70): VN
 Ion 119.00 (118.70 to 119.70): V

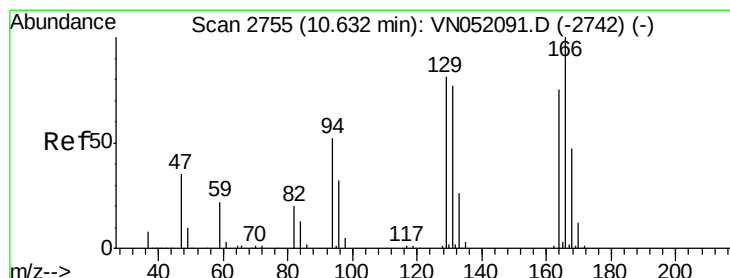
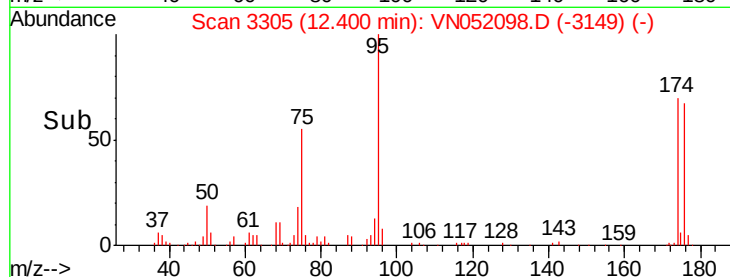
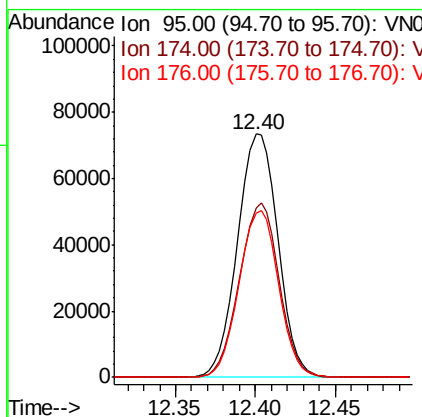
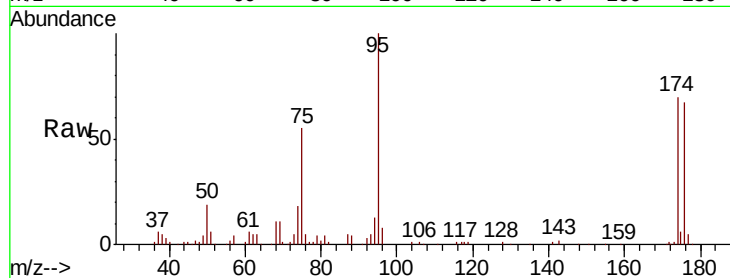




#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052098.D
Acq: 1 Nov 2018 12:54

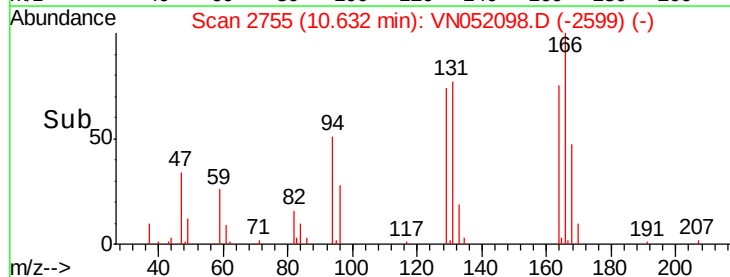
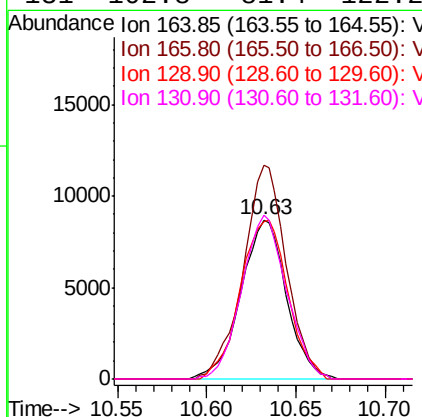
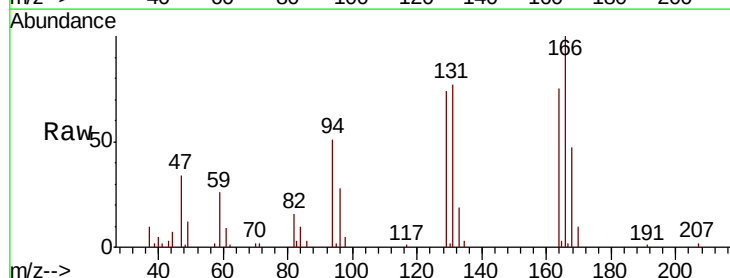
Instrument :
MSVOA_N
ClientSampled :
2-AVE-24

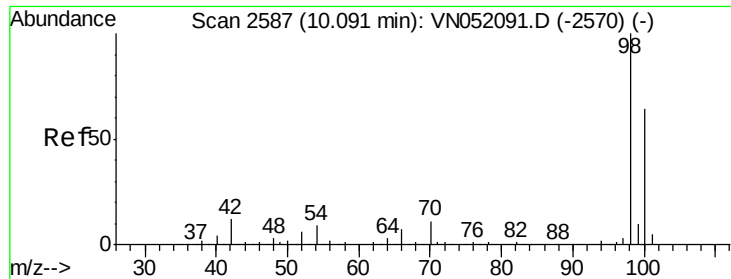
Tgt Ion: 95 Resp: 126814
Ion Ratio Lower Upper
95 100
174 70.3 55.0 82.6
176 67.0 54.2 81.4



#61
Tetrachloroethene
Concen: 4.962 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052098.D
Acq: 1 Nov 2018 12:54

Tgt Ion: 164 Resp: 15462
Ion Ratio Lower Upper
164 100
166 134.1 106.4 159.6
129 99.2 87.0 130.4
131 102.8 81.4 122.2





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052098.D

Acq: 1 Nov 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

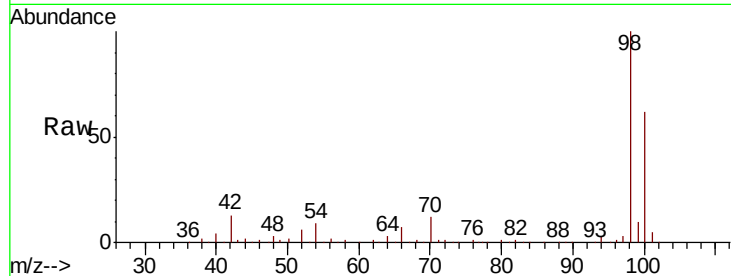
2-AVE-24

Tgt Ion: 98 Resp: 430535

Ion Ratio Lower Upper

98 100

100 61.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

250000

200000

150000

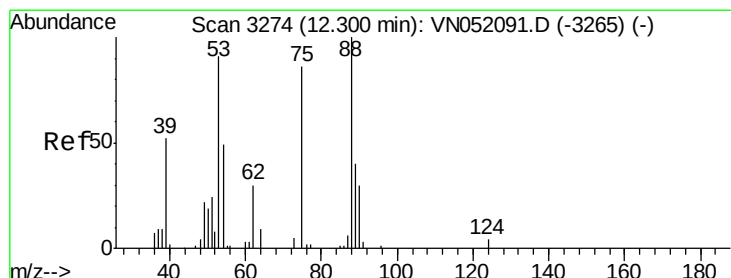
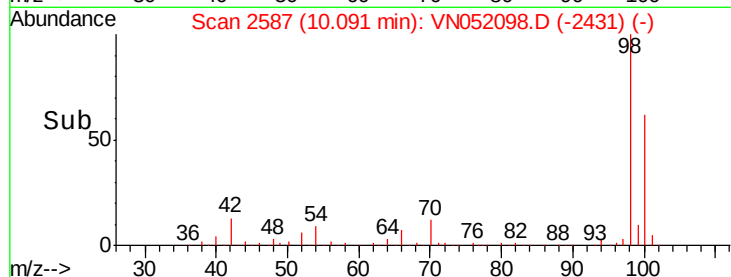
100000

50000

0

Time-->

10.00 10.05 10.10 10.15



#77

t-1,4-Dichloro-2-butene

Concen: 65.121 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052098.D

Acq: 1 Nov 2018 12:54

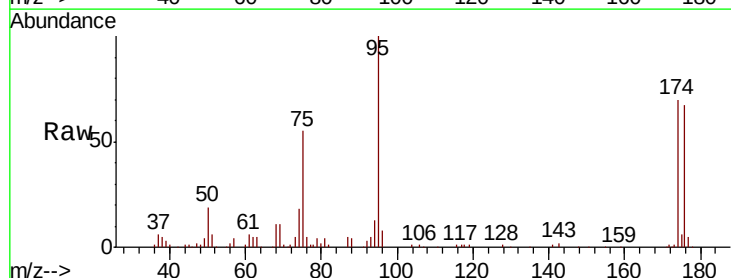
Tgt Ion: 75 Resp: 67458

Ion Ratio Lower Upper

75 100

53 0.0 50.7 152.1#

89 0.0 23.8 71.5#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

50000

40000

30000

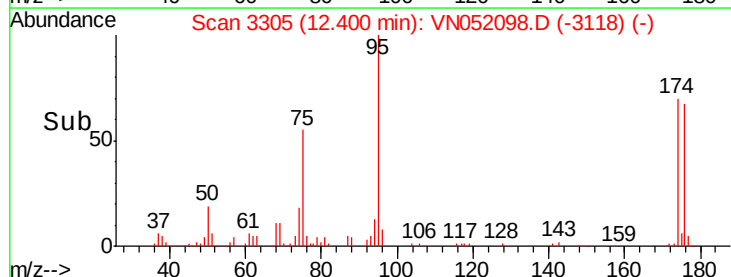
20000

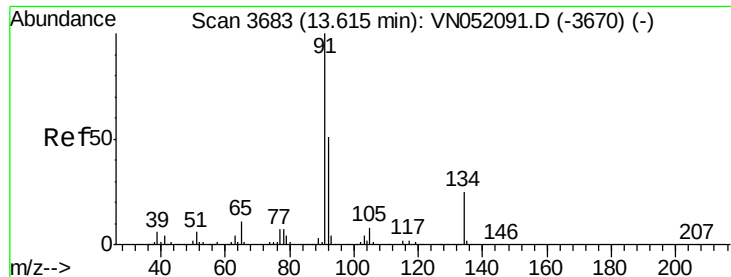
10000

0

Time-->

12.35 12.40 12.45





#85

n-Butylbenzene

Concen: 0.251 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052098.D

Acq: 1 Nov 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

2-AVE-24

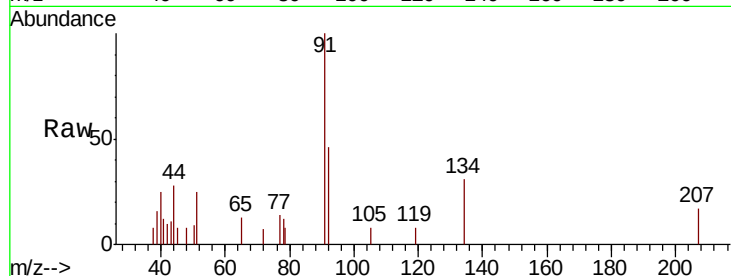
Tgt Ion: 91 Resp: 3024

Ion Ratio Lower Upper

91 100

92 55.8 0.0 102.8

134 21.8 0.0 49.2

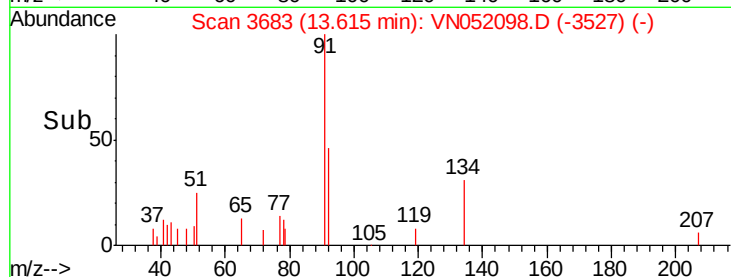


Abundance Ion 91.00 (90.70 to 91.70): VN052091.D (-3670) (-)

Ion 92.00 (91.70 to 92.70): VN052091.D (-3670) (-)

Ion 134.00 (133.70 to 134.70): VN052091.D (-3670) (-)

Time-->

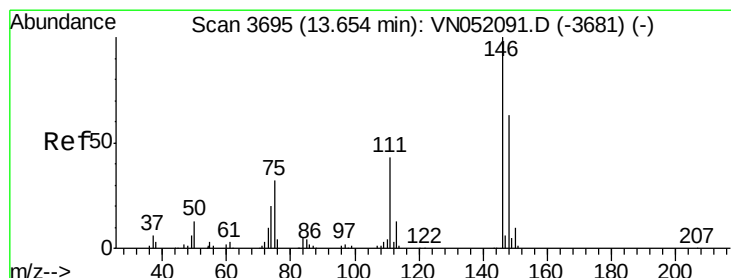


Abundance Ion 91.00 (90.70 to 91.70): VN052098.D (-3527) (-)

Ion 92.00 (91.70 to 92.70): VN052098.D (-3527) (-)

Ion 134.00 (133.70 to 134.70): VN052098.D (-3527) (-)

Time-->



#87

1,2-Dichlorobenzene

Concen: 0.238 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN052098.D

Acq: 1 Nov 2018 12:54

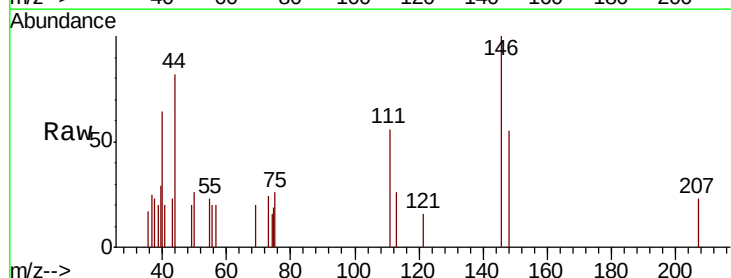
Tgt Ion: 146 Resp: 1514

Ion Ratio Lower Upper

146 100

111 37.8 22.4 67.0

148 67.3 32.5 97.4

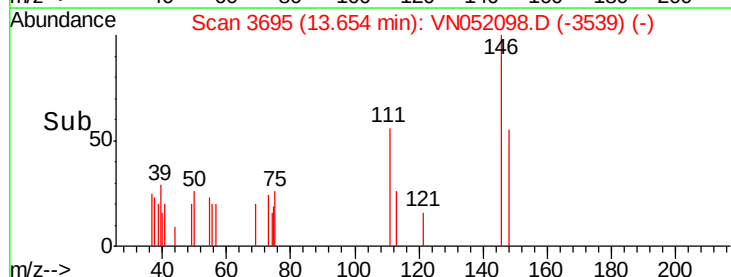


Abundance Ion 146.00 (145.70 to 146.70): VN052091.D (-3681) (-)

Ion 111.00 (110.70 to 111.70): VN052091.D (-3681) (-)

Ion 148.00 (147.70 to 148.70): VN052091.D (-3681) (-)

Time-->

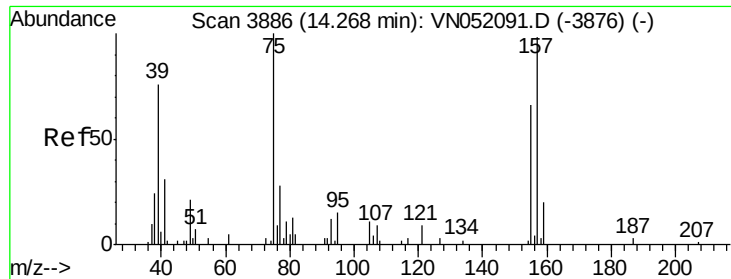


Abundance Ion 146.00 (145.70 to 146.70): VN052098.D (-3539) (-)

Ion 111.00 (110.70 to 111.70): VN052098.D (-3539) (-)

Ion 148.00 (147.70 to 148.70): VN052098.D (-3539) (-)

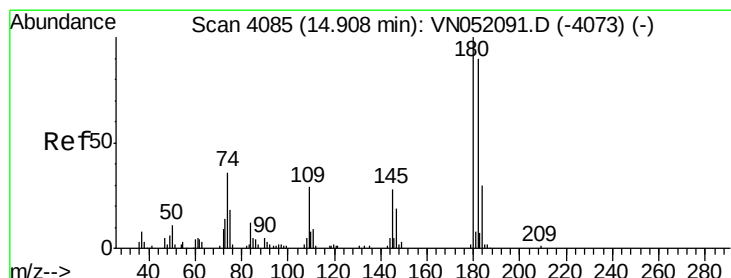
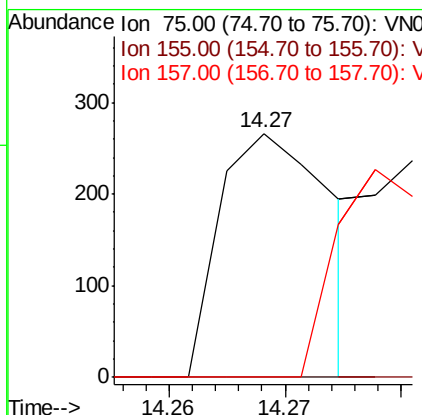
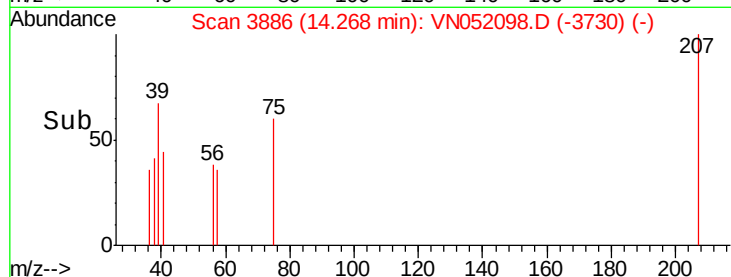
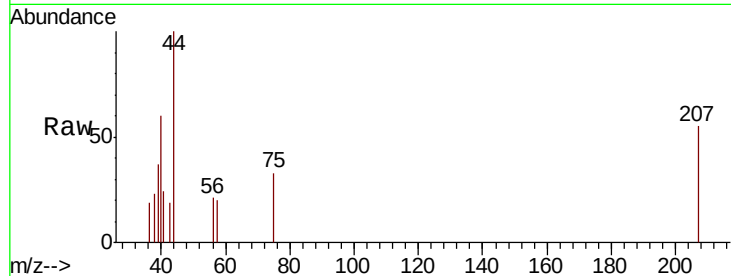
Time-->



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.344 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

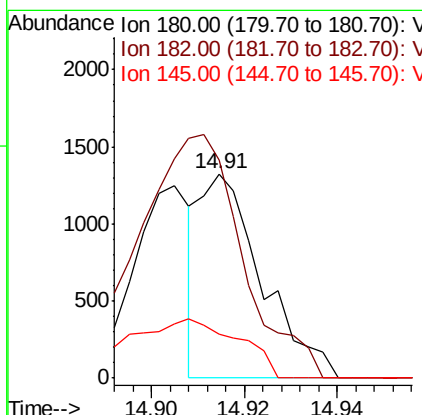
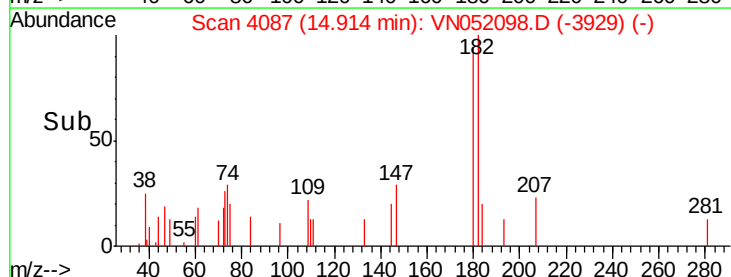
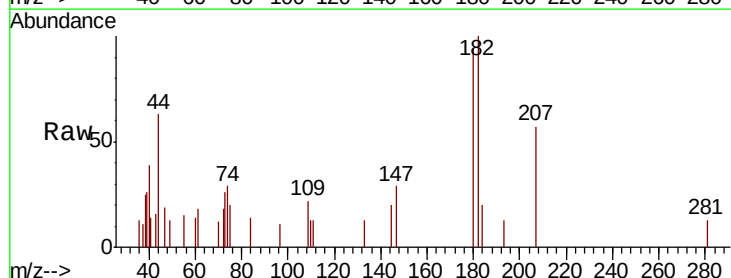
Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-24

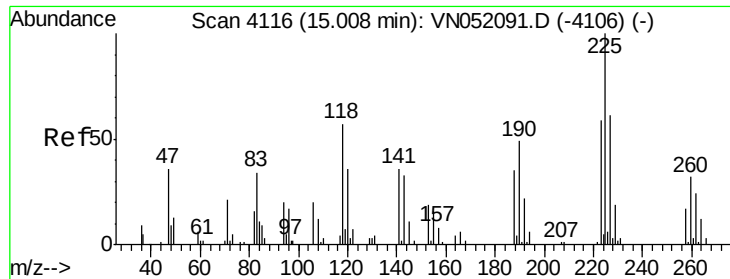
Tgt Ion: 75 Resp: 177
 Ion Ratio Lower Upper
 75 100
 155 0.0 56.7 85.1#
 157 0.0 80.4 120.6#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.470 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

Tgt Ion: 180 Resp: 1216
 Ion Ratio Lower Upper
 180 100
 182 205.2 74.0 111.0#
 145 49.5 24.6 36.8#





#90

Hexachlorobutadiene

Concen: 0.704 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN052098.D

Acq: 1 Nov 2018 12:54

Instrument :

MSVOA_N

ClientSampled :

2-AVE-24

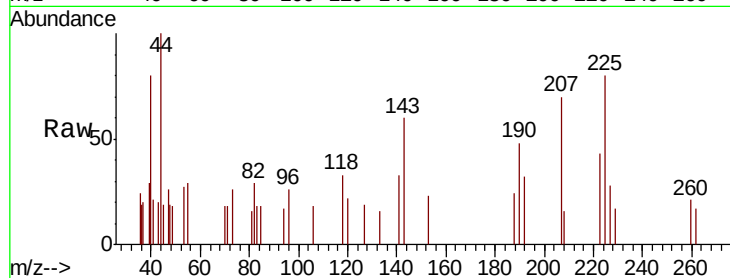
Tgt Ion:225 Resp: 996

Ion Ratio Lower Upper

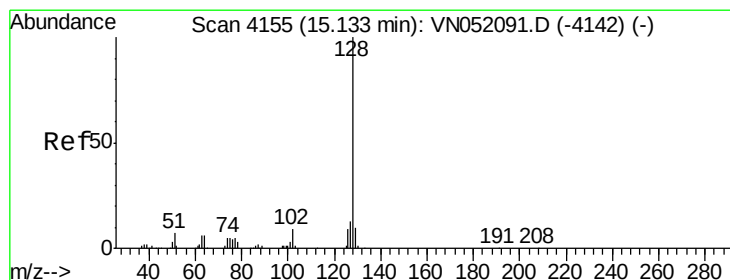
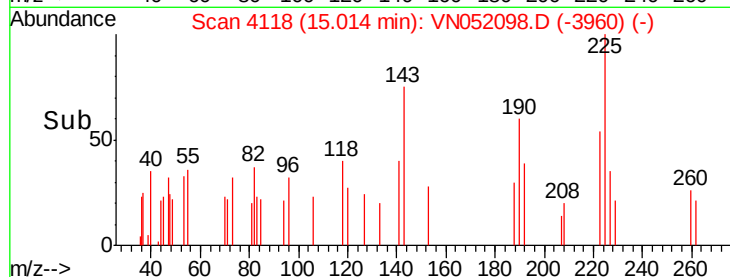
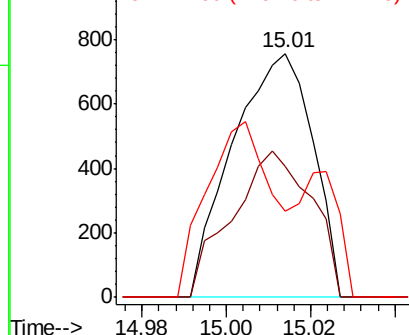
225 100

223 59.5 0.0 121.2

227 58.5 0.0 127.2



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 1.167 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052098.D

Acq: 1 Nov 2018 12:54

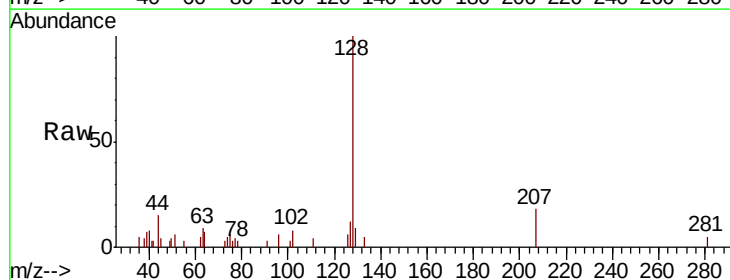
Tgt Ion:128 Resp: 6963

Ion Ratio Lower Upper

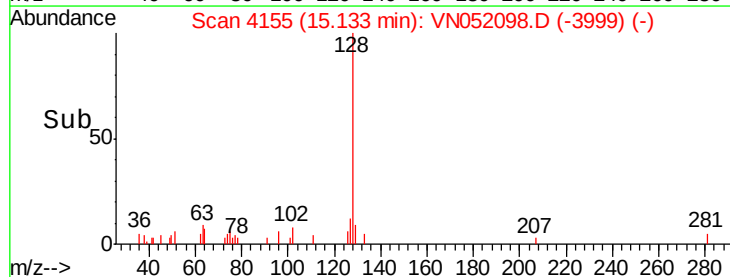
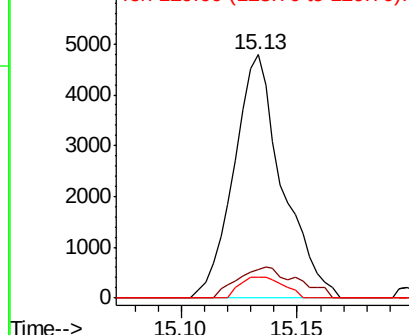
128 100

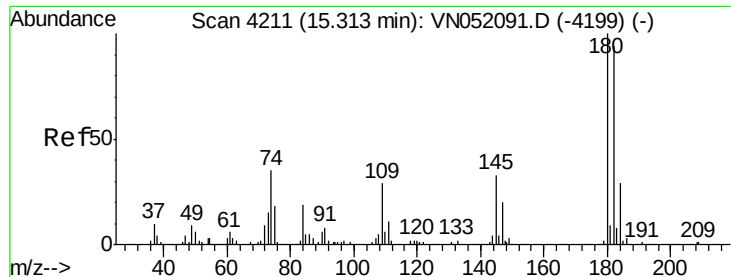
127 11.7 10.4 15.6

129 7.8 8.3 12.5#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

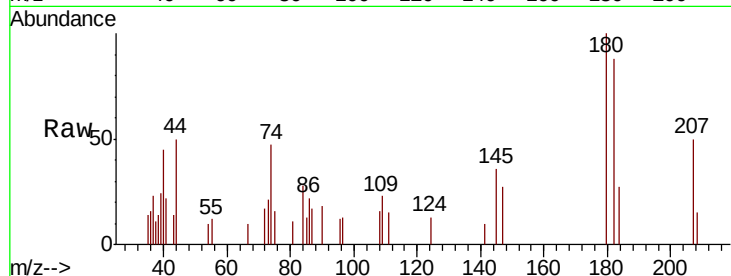




#92
 1,2,3-Trichlorobenzene
 Concen: 1.226 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN052098.D
 Acq: 1 Nov 2018 12:54

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-24

Tgt Ion:180 Resp: 2766
 Ion Ratio Lower Upper
 180 100
 182 105.5 0.0 186.6
 145 12.9 0.0 66.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

