

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052164.D
 Acq On : 5 Nov 2018 23:01
 Operator : MD\SY
 Sample : J5812-32
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP4-B

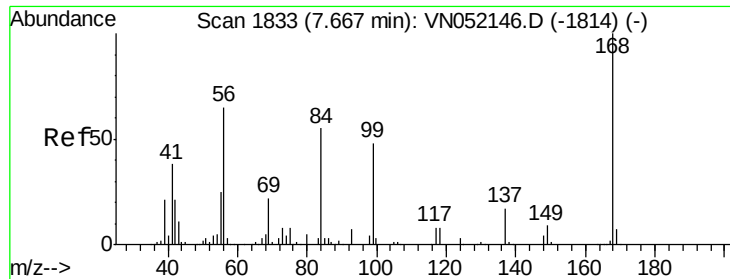
Quant Time: Nov 06 05:18:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	321281	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	589646	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	563057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	238741	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	249552	65.51	ug/l	0.00
Spiked Amount			Recovery	=	131.02%	
35) Dibromofluoromethane	7.59	113	219242	59.89	ug/l	0.00
Spiked Amount			Recovery	=	119.78%	
50) Toluene-d8	10.09	98	868718	61.38	ug/l	0.00
Spiked Amount			Recovery	=	122.76%	
62) 4-Bromofluorobenzene	12.40	95	295654	63.63	ug/l	0.00
Spiked Amount			Recovery	=	127.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	174	1.051	ug/l #	79
13) Acrolein	3.63	56	115	32.597	ug/l #	14
16) Acetone	3.81	43	2911	3.373	ug/l #	74
18) Methyl Acetate	4.33	43	865	0.315	ug/l #	51
20) Methylene Chloride	4.56	84	20810	5.802	ug/l	92
29) Tetrahydrofuran	7.23	42	640	0.773	ug/l #	45
31) Cyclohexane	7.66	56	8005	Below Cal	#	10
36) 1,1-Dichloropropene	7.67	75	27843	5.338	ug/l #	49
37) Ethyl Acetate	6.92	43	190	Below Cal	#	72
38) Carbon Tetrachloride	7.67	117	33028	6.333	ug/l #	16
41) Methacrylonitrile	7.18	41	180	1.492	ug/l #	23
43) Isopropyl Acetate	8.17	43	188886	31.736	ug/l #	88
48) Methyl methacrylate	9.18	41	4473	1.562	ug/l #	19
49) 1,4-Dioxane	9.21	88	75	Below Cal	#	73
51) 4-Methyl-2-Pentanone	9.99	43	1120	0.356	ug/l #	75
59) 2-Hexanone	10.76	43	10767	4.919	ug/l #	55
71) Bromoform	12.39	173	1031	3.174	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	150209	39.980	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	150209	143.153	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.90	180	146	2.278	ug/l #	1
95) Naphthalene	15.13	128	8134	1.113	ug/l #	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

Instrument :

MSVOA_N

ClientSampled :

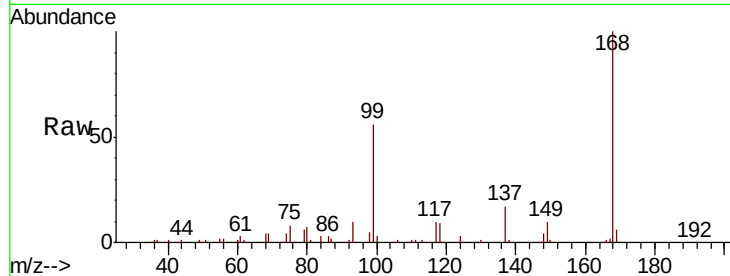
TP4-B

Tot Ion:168 Resp: 321281

Ion Ratio Lower Upper

168 100

99 56.2 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

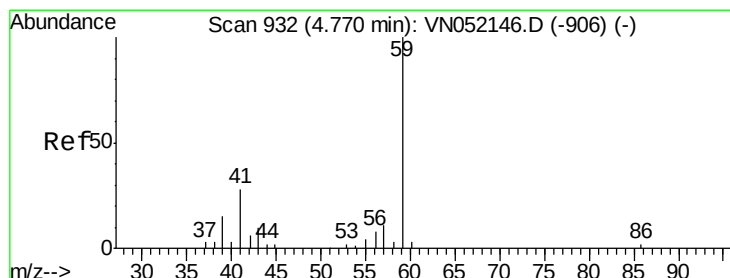
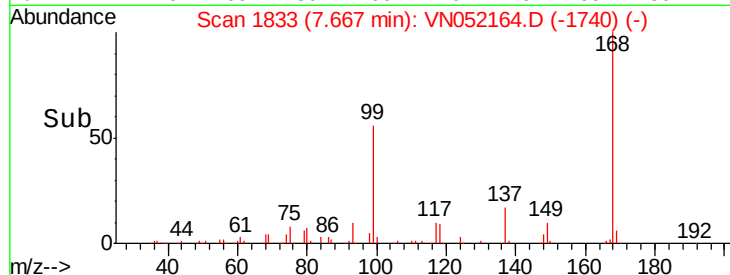
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.051 ug/l

RT: 4.80 min Scan# 942

Delta R.T. 0.03 min

Lab File: VN052164.D

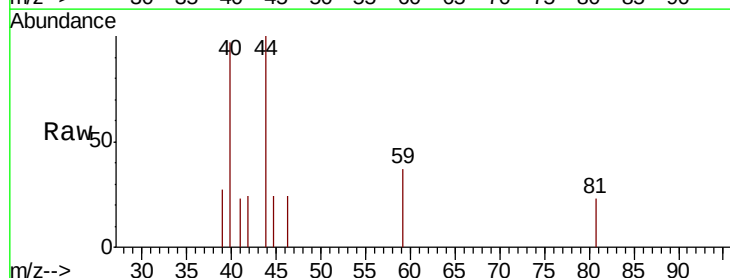
Acq: 5 Nov 2018 23:01

Tgt Ion: 59 Resp: 174

Ion Ratio Lower Upper

59 100

57 0.0 5.7 8.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.80

300

250

200

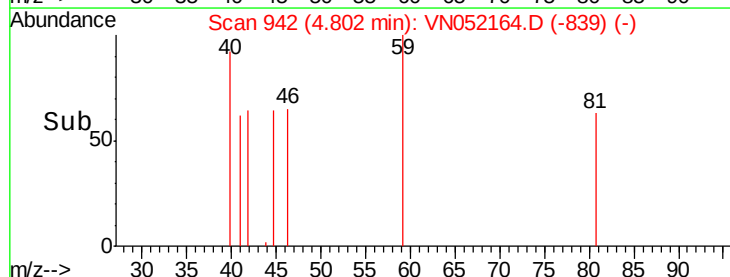
150

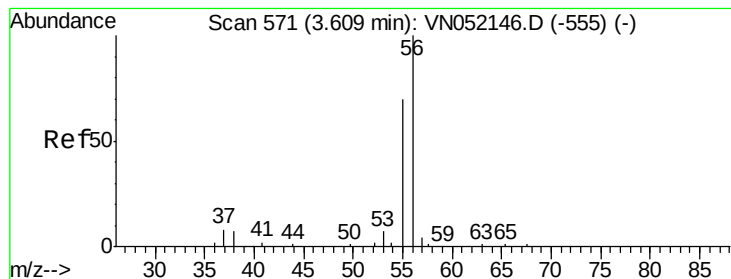
100

50

0

Time-->





#13

Acrolein

Concen: 32.597 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.02 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

Instrument :

MSVOA_N

ClientSampled :

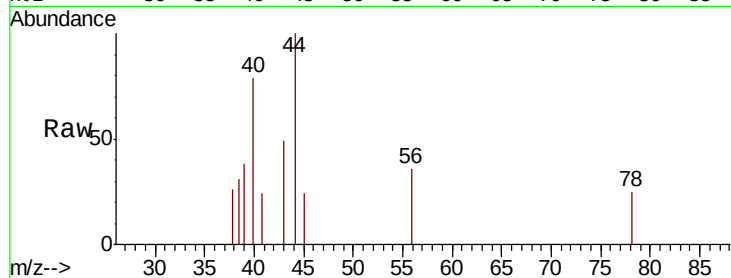
TP4-B

Tot Ion: 56 Resp: 115

Ion Ratio Lower Upper

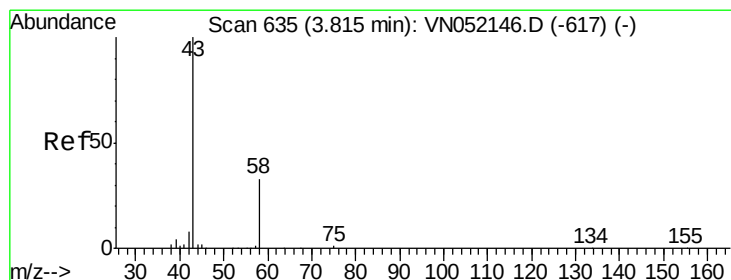
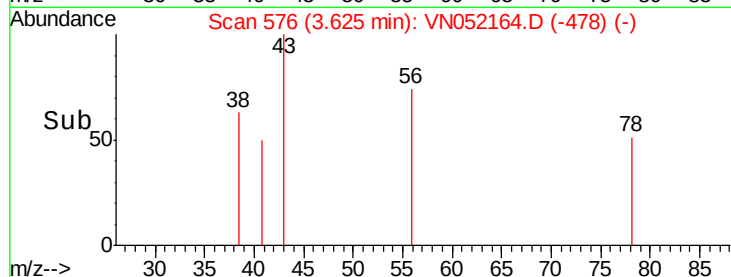
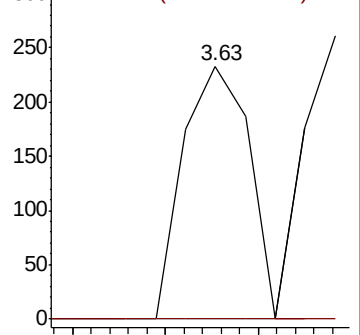
56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 3.373 ug/l

RT: 3.81 min Scan# 633

Delta R.T. -0.01 min

Lab File: VN052164.D

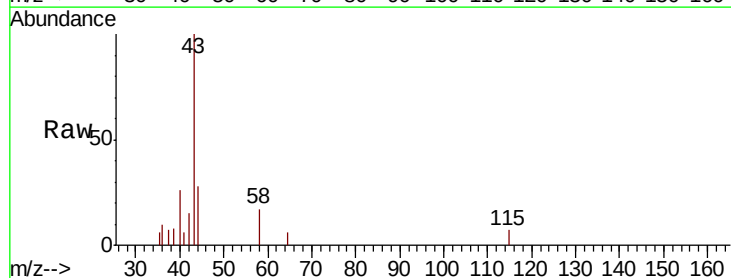
Acq: 5 Nov 2018 23:01

Tgt Ion: 43 Resp: 2911

Ion Ratio Lower Upper

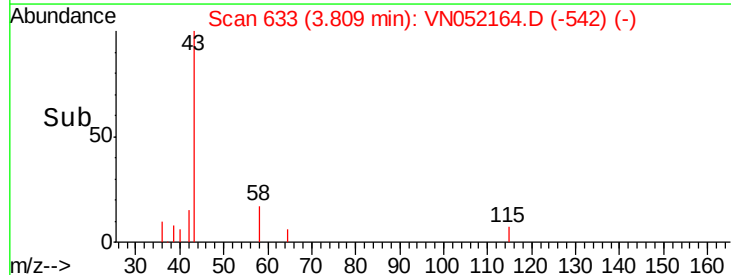
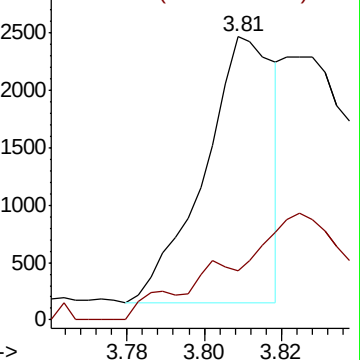
43 100

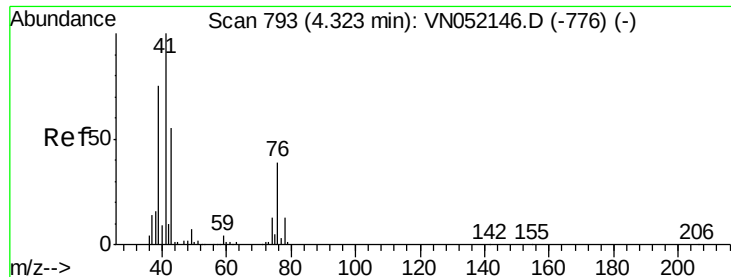
58 18.3 26.2 39.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

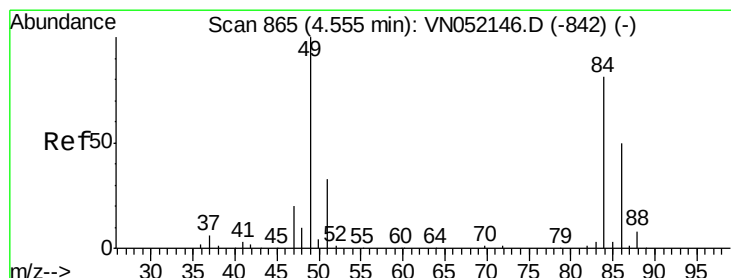
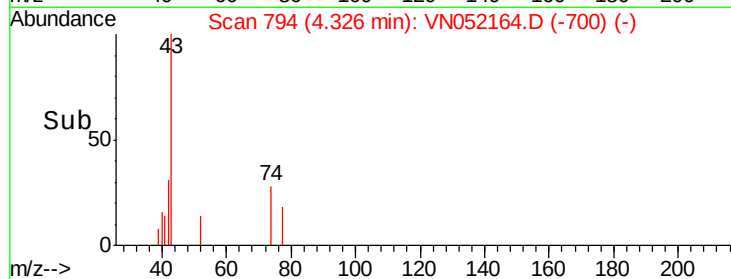
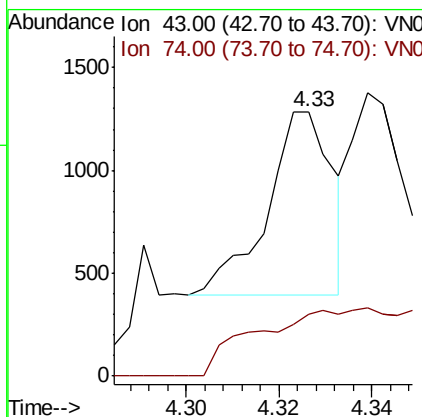
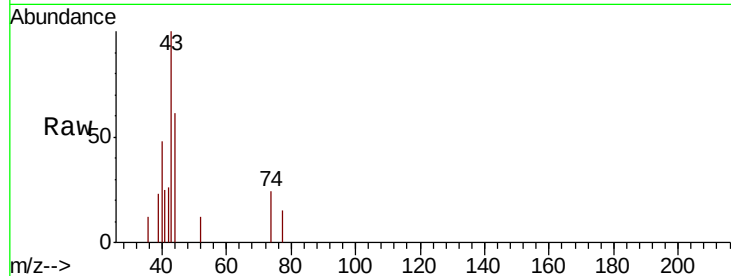




#18
Methyl Acetate
Concen: 0.315 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052164.D
Acq: 5 Nov 2018 23:01

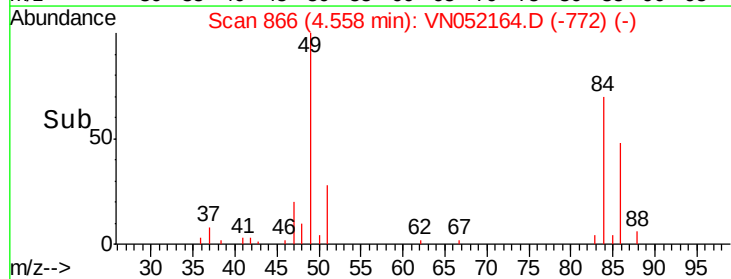
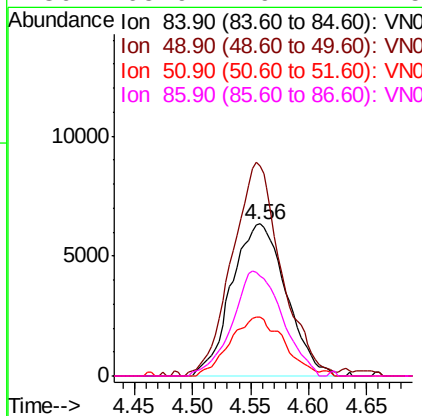
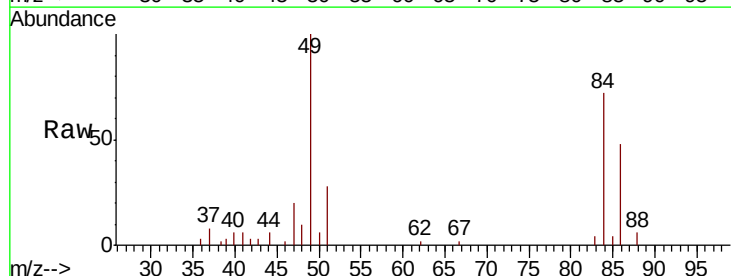
Instrument :
MSVOA_N
ClientSampled :
TP4-B

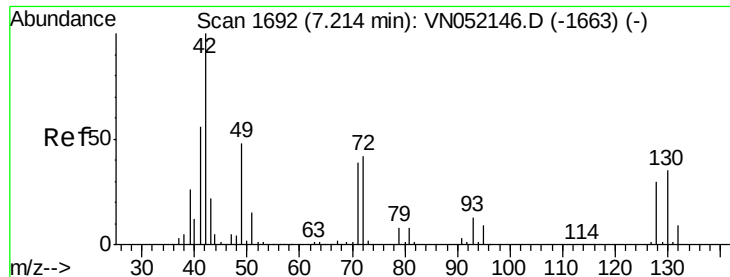
Tot Ion: 43 Resp: 865
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: 5.802 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052164.D
Acq: 5 Nov 2018 23:01

Tgt Ion: 84 Resp: 20810
Ion Ratio Lower Upper
84 100
49 135.7 98.4 147.6
51 38.4 32.5 48.7
86 65.9 49.7 74.5





#29

Tetrahydrofuran

Concen: 0.773 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

Instrument :

MSVOA_N

ClientSampled :

TP4-B

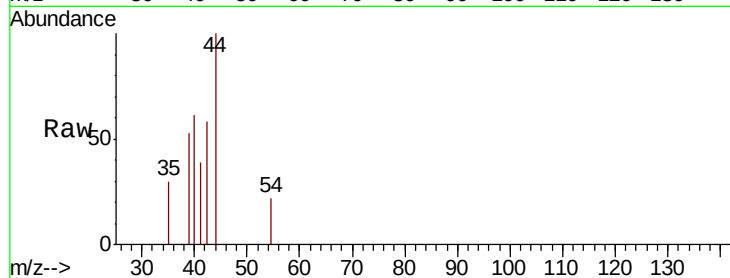
Tot Ion: 42 Resp: 640

Ion Ratio Lower Upper

42 100

72 11.1 32.3 48.5#

71 0.0 31.0 46.6#

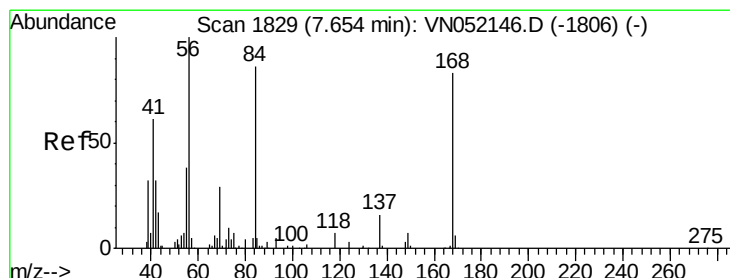
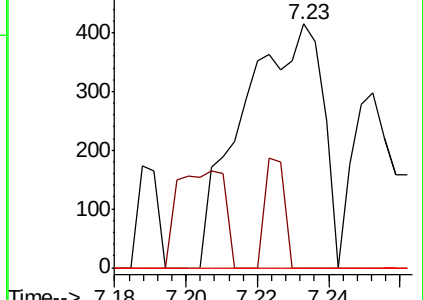
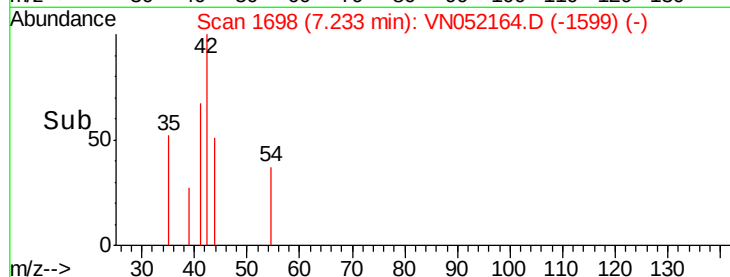


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

Time--> 7.18 7.20 7.22 7.24



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

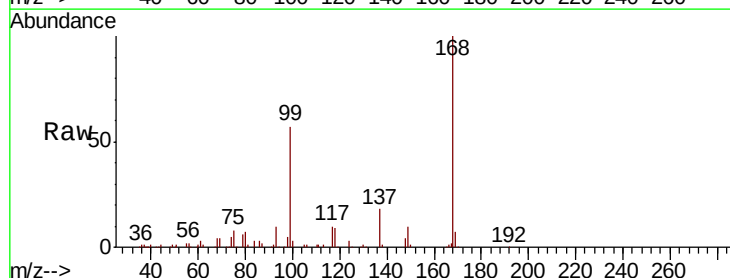
Tgt Ion: 56 Resp: 8005

Ion Ratio Lower Upper

56 100

69 168.0 23.5 35.3#

84 116.1 68.7 103.1#

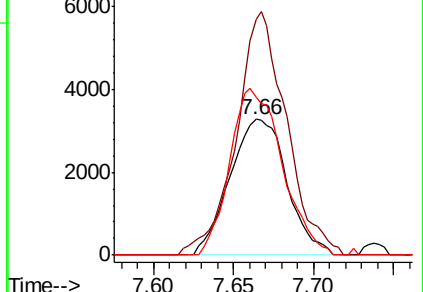
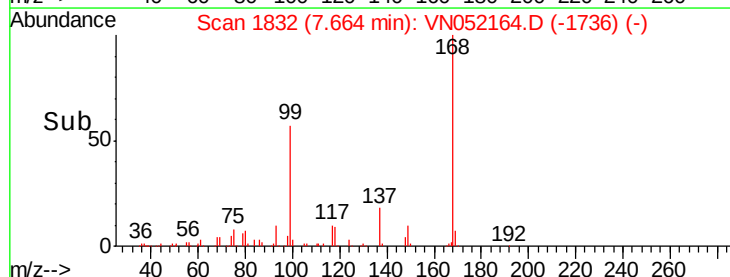


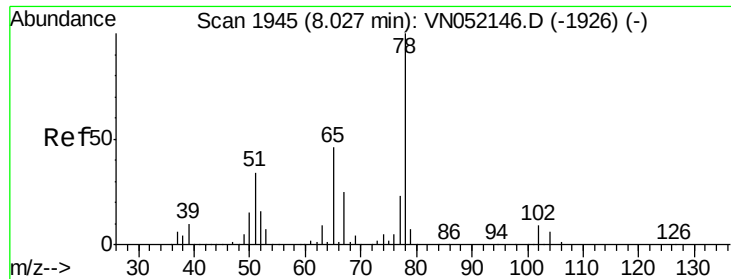
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

Time--> 7.60 7.65 7.70

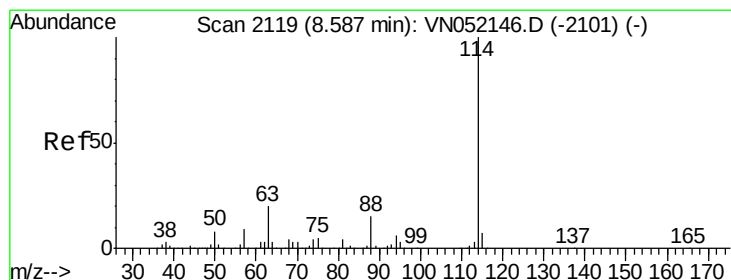
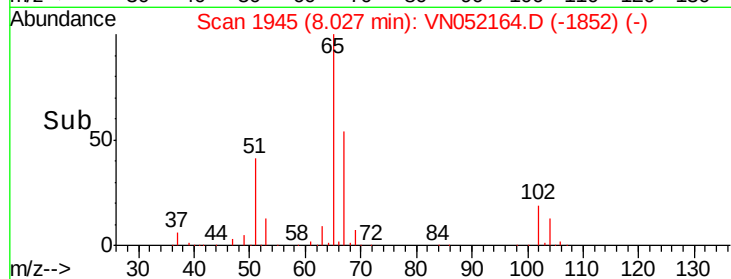
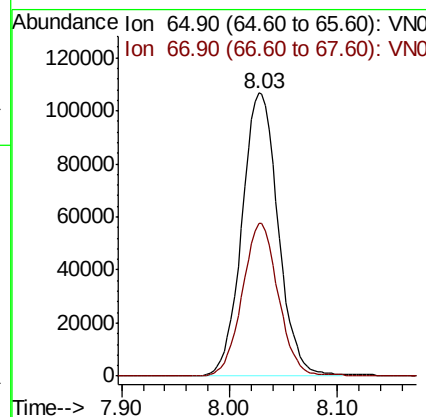
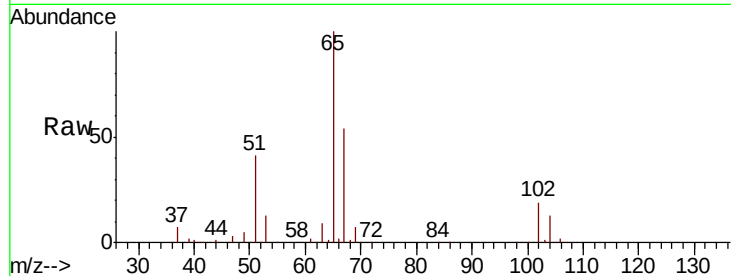




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052164.D
 Acq: 5 Nov 2018 23:01

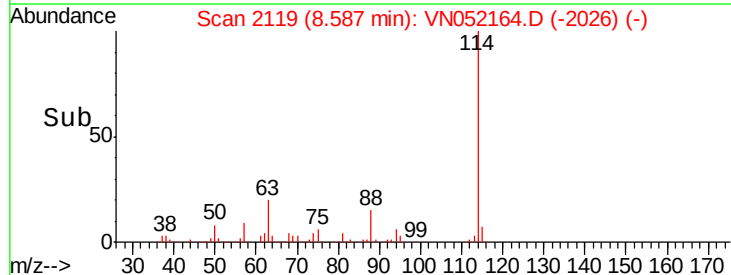
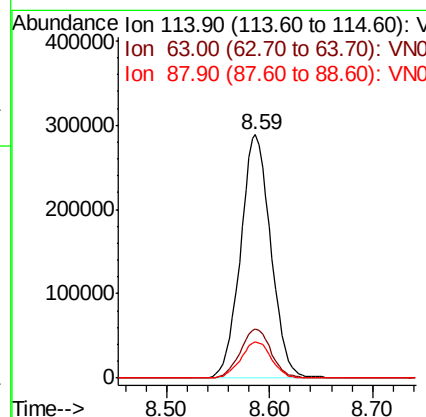
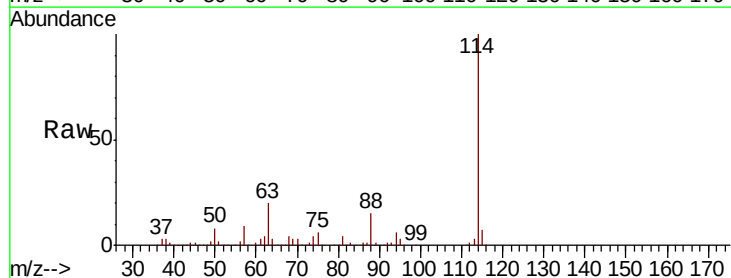
Instrument :
 MSVOA_N
 ClientSampleId :
 TP4-B

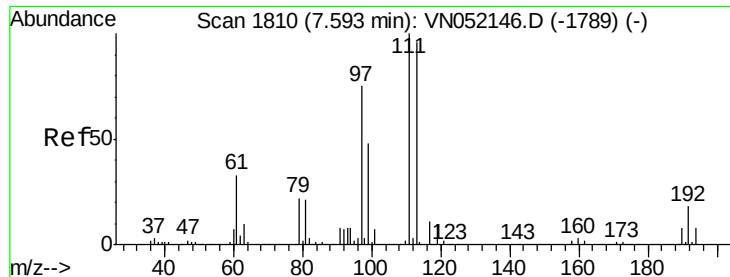
Tot Ion: 65 Resp: 24952
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052164.D
 Acq: 5 Nov 2018 23:01

Tgt Ion: 114 Resp: 589646
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 14.9 0.0 31.0

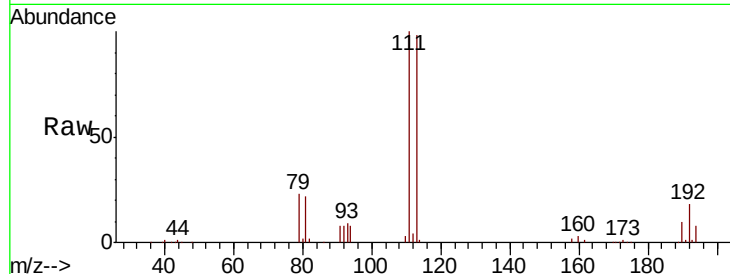




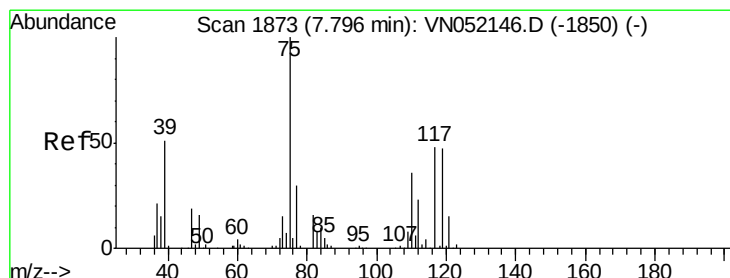
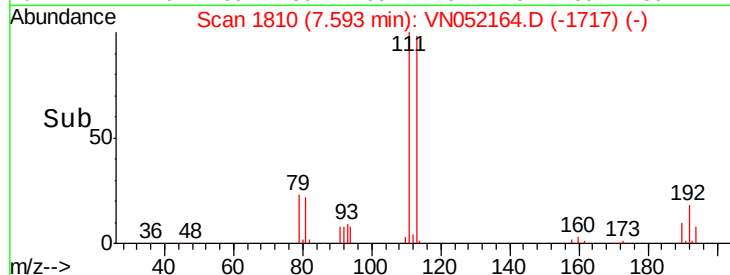
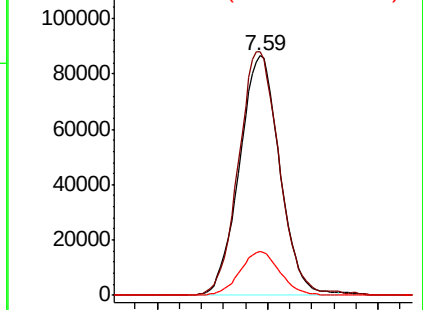
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052164.D
 Acq: 5 Nov 2018 23:01

Instrument :
 MSVOA_N
 ClientSampleId :
 TP4-B

Tot Ion:113 Resp: 219242
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.7 122.5
 192 18.2 14.2 21.4

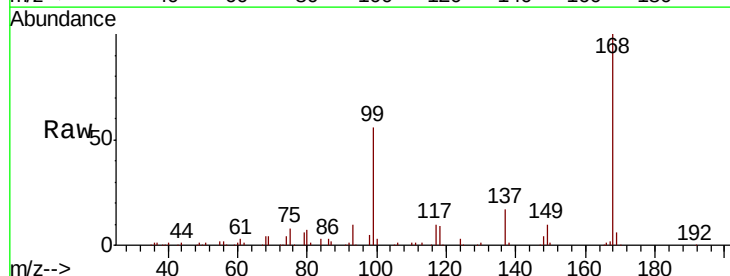


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

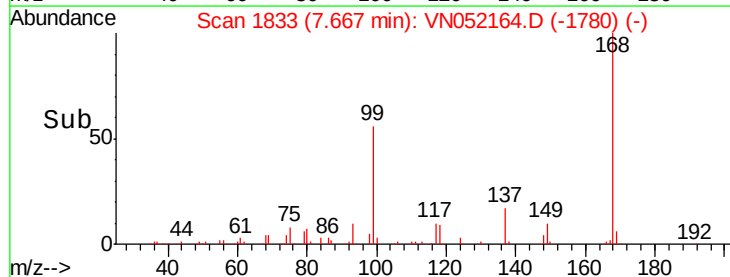
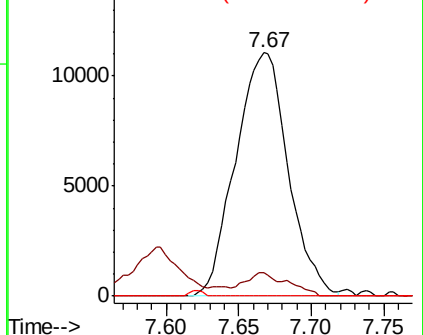


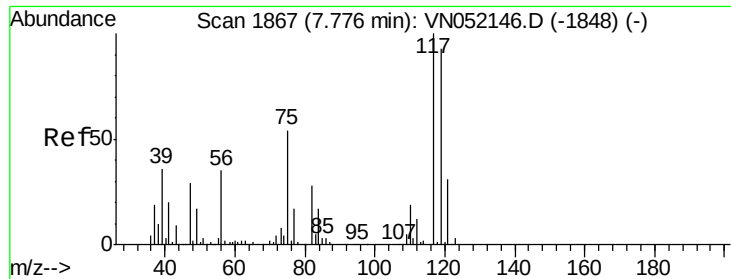
#36
 1,1-Dichloropropene
 Concen: 5.338 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052164.D
 Acq: 5 Nov 2018 23:01

Tgt Ion: 75 Resp: 27843
 Ion Ratio Lower Upper
 75 100
 110 8.0 17.8 53.5#
 77 0.0 24.0 36.0#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

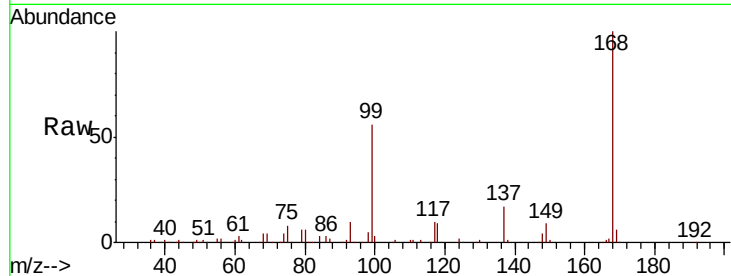




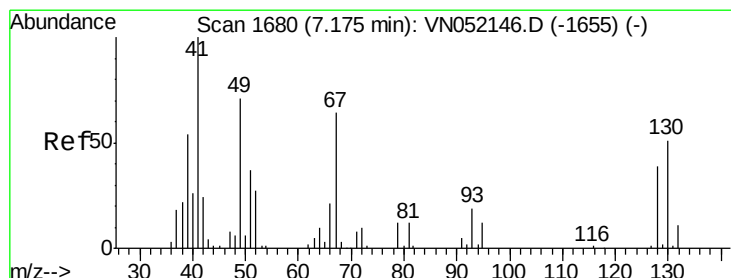
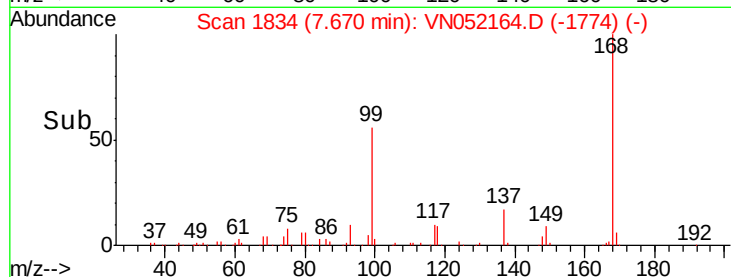
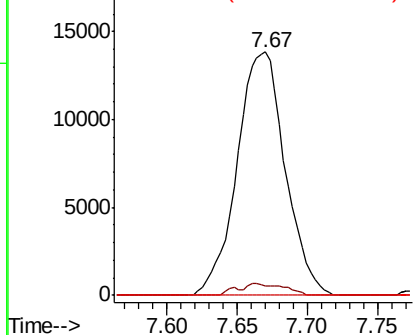
#38
Carbon Tetrachloride
Concen: 6.333 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN052164.D
Acq: 5 Nov 2018 23:01

Instrument :
MSVOA_N
ClientSampled :
TP4-B

Tot Ion:117 Resp: 33028
Ion Ratio Lower Upper
117 100
119 4.0 74.7 112.1#
121 0.0 24.5 36.7#

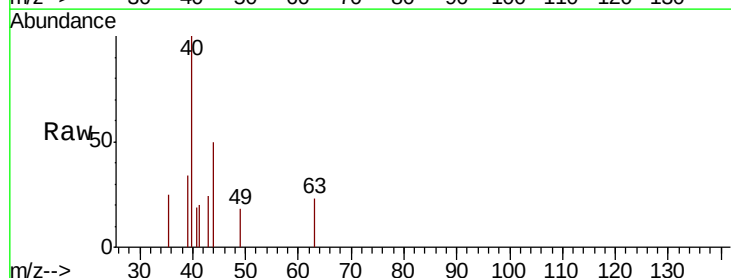


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

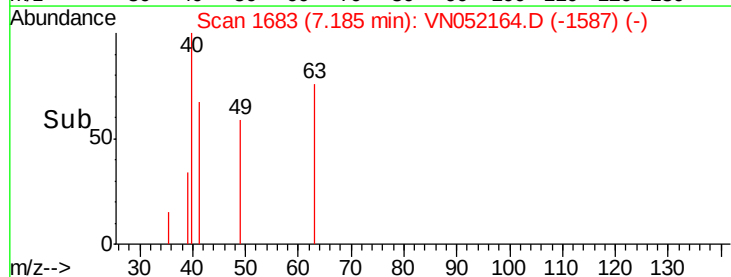
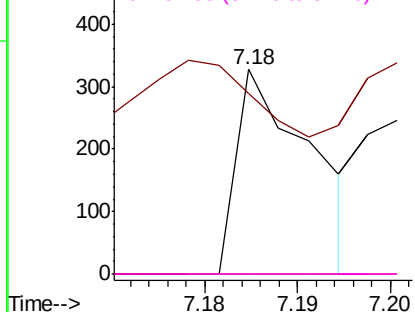


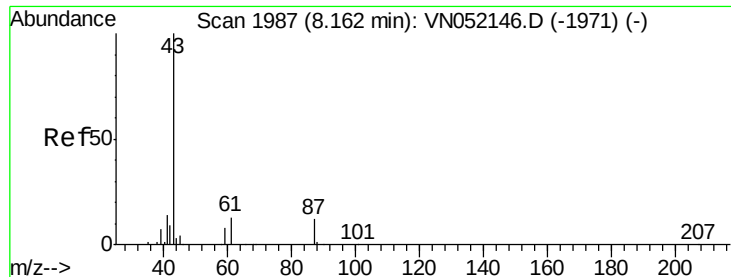
#41
Methacrylonitrile
Concen: 1.492 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN052164.D
Acq: 5 Nov 2018 23:01

Tgt Ion: 41 Resp: 180
Ion Ratio Lower Upper
41 100
39 114.4 49.6 74.4#
67 0.0 65.4 98.2#
52 0.0 27.2 40.8#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 31.736 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

Instrument :

MSVOA_N

ClientSampled :

TP4-B

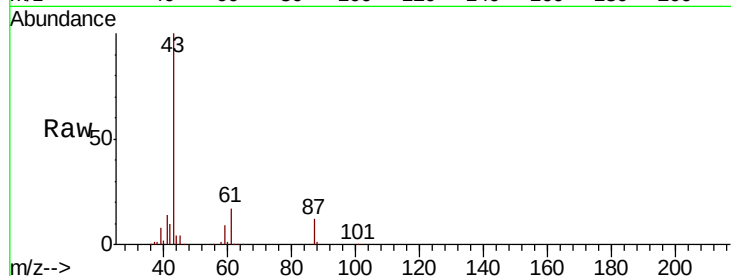
Tot Ion: 43 Resp: 188886

Ion Ratio Lower Upper

43 100

61 18.2 21.5 32.3#

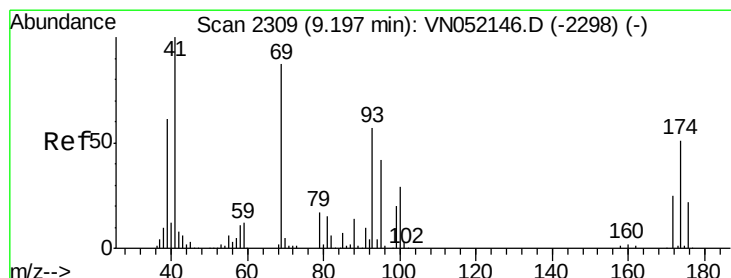
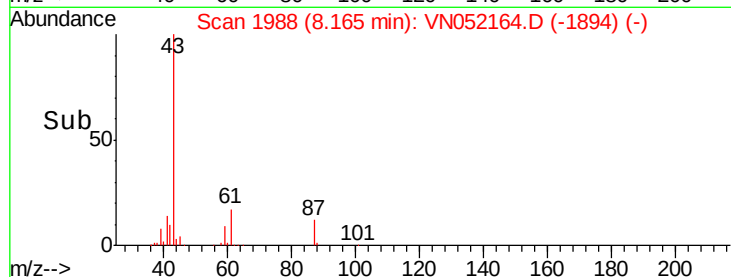
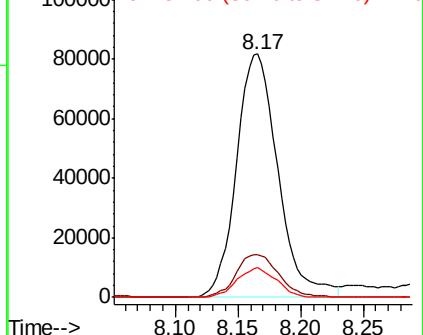
87 11.6 10.2 15.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.562 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

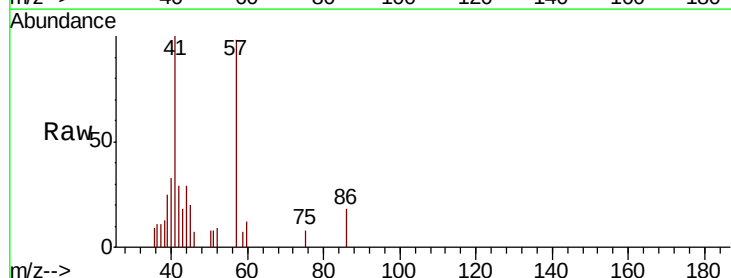
Tgt Ion: 41 Resp: 4473

Ion Ratio Lower Upper

41 100

69 0.0 69.7 104.5#

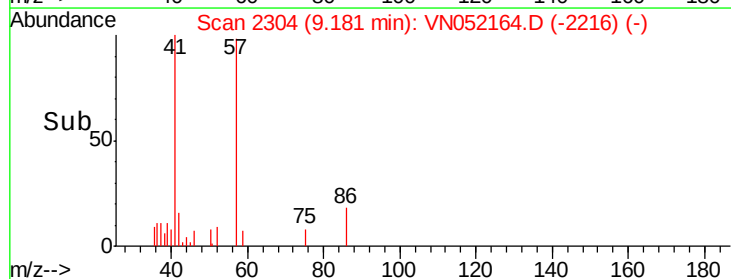
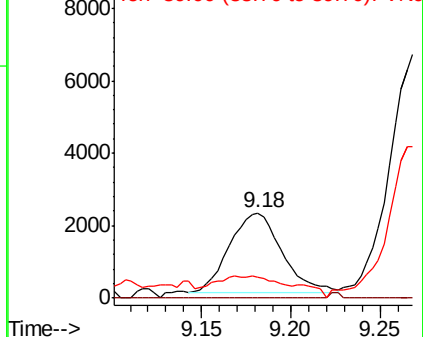
39 14.4 50.6 76.0#

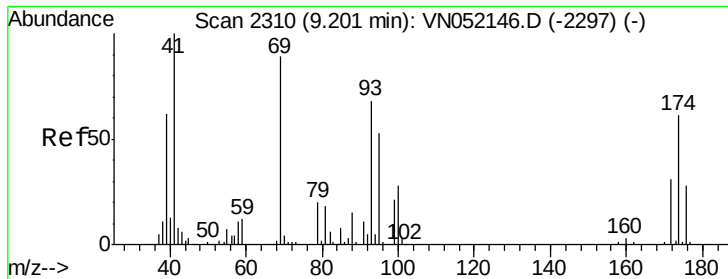


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

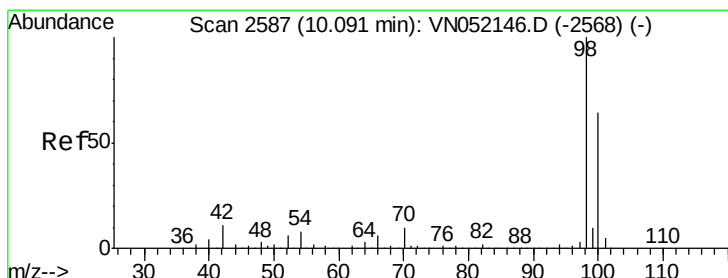
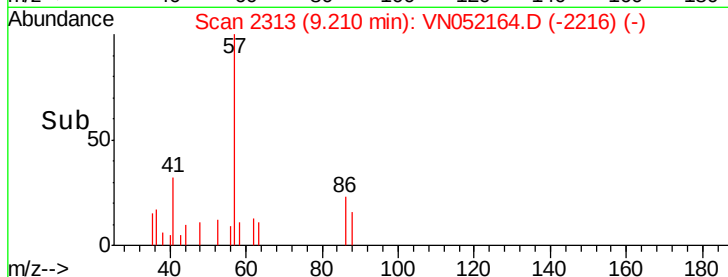
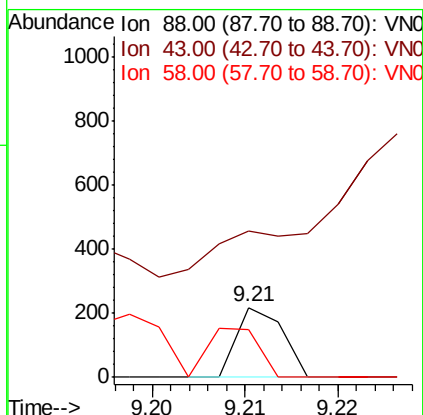
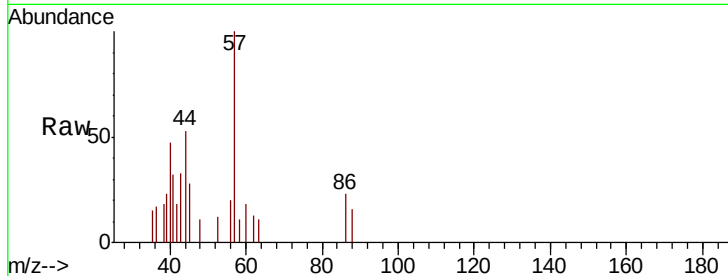




#49
1,4-Dioxane
Concen: Below Cal
RT: 9.21 min Scan# 2313
Delta R.T. 0.01 min
Lab File: VN052164.D
Acq: 5 Nov 2018 23:01

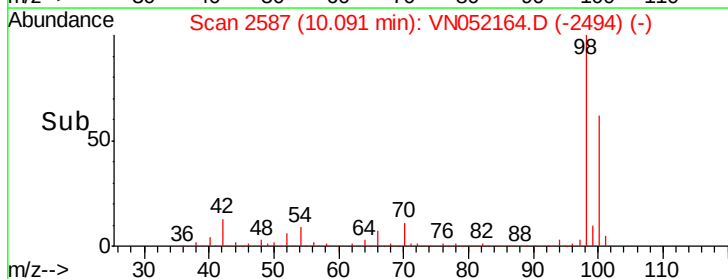
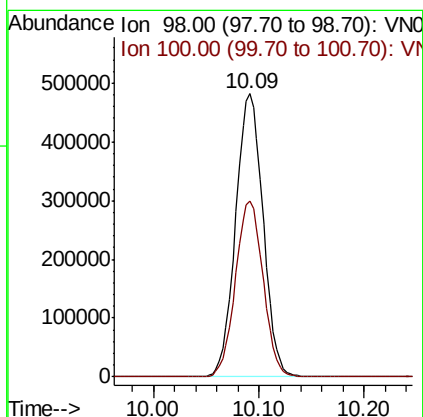
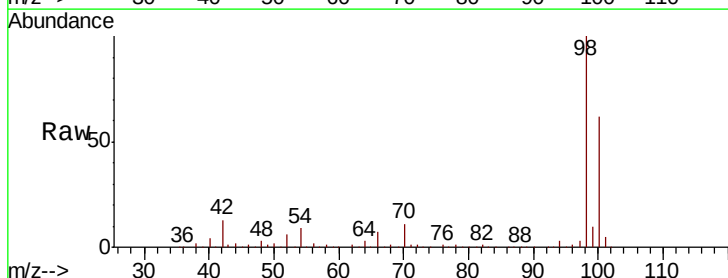
Instrument :
MSVOA_N
ClientSampled :
TP4-B

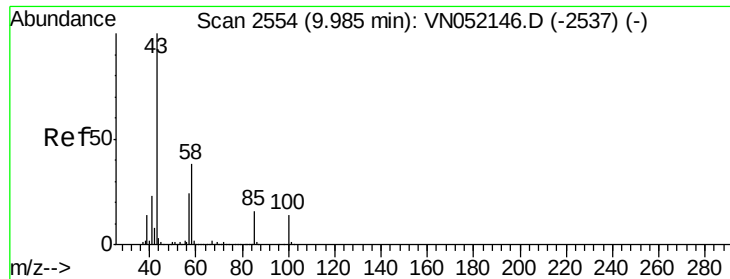
Tot Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 0.0 33.0 49.6#
58 77.3 58.6 88.0



#50
Toluene-d8
Concen: Below ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052164.D
Acq: 5 Nov 2018 23:01

Tgt Ion: 98 Resp: 868718
Ion Ratio Lower Upper
98 100
100 62.6 50.5 75.7

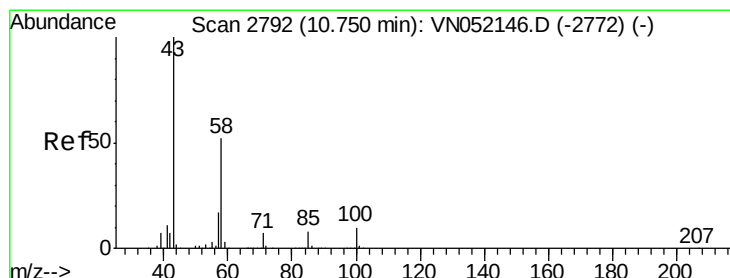
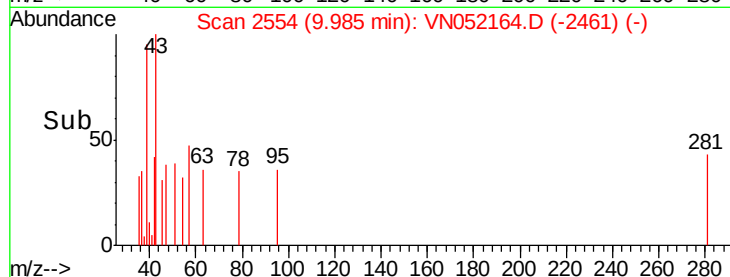
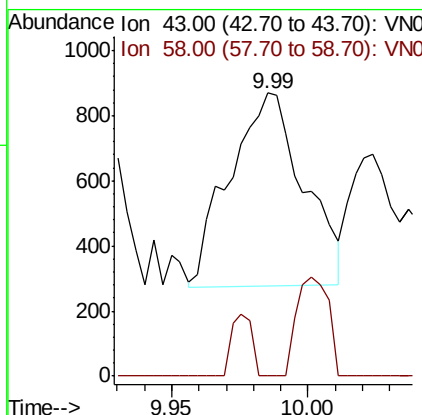
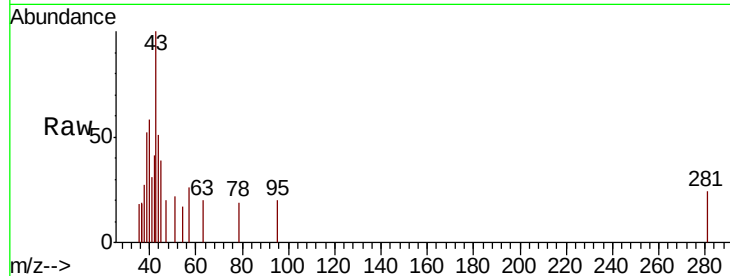




#51
 4-Methyl-2-Pentanone
 Concen: 0.356 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN052164.D
 Acq: 5 Nov 2018 23:01

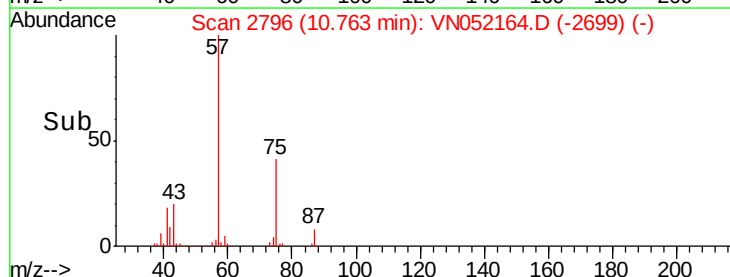
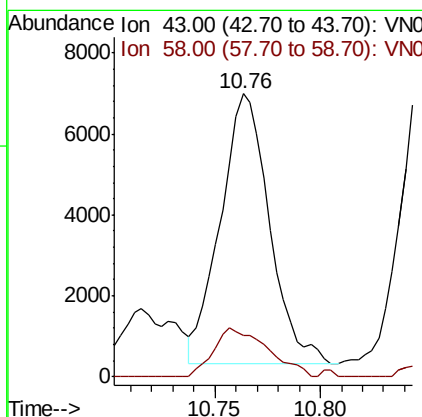
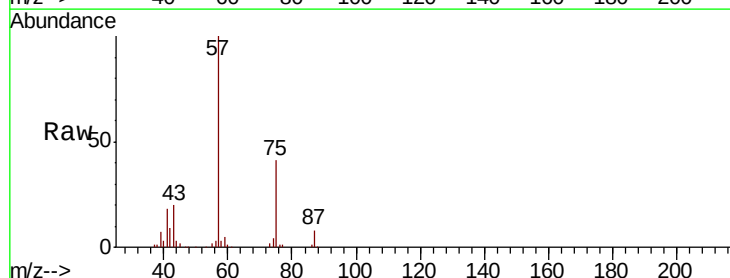
Instrument :
 MSVOA_N
 ClientSampleID :
 TP4-B

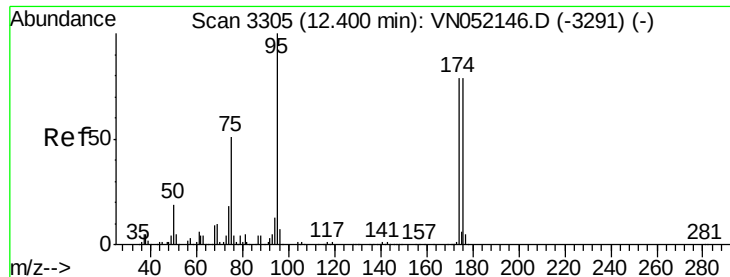
Tot Ion: 43 Resp: 1120
 Ion Ratio Lower Upper
 43 100
 58 22.0 29.6 44.4#



#59
 2-Hexanone
 Concen: 4.919 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052164.D
 Acq: 5 Nov 2018 23:01

Tgt Ion: 43 Resp: 10767
 Ion Ratio Lower Upper
 43 100
 58 20.1 25.8 77.4#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

Instrument :

MSVOA_N

ClientSampled :

TP4-B

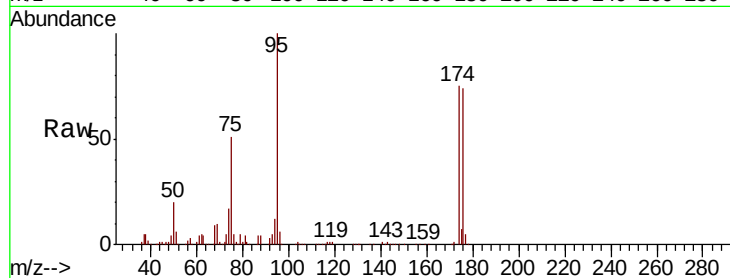
Tot Ion: 95 Resp: 295654

Ion Ratio Lower Upper

95 100

174 75.2 0.0 162.6

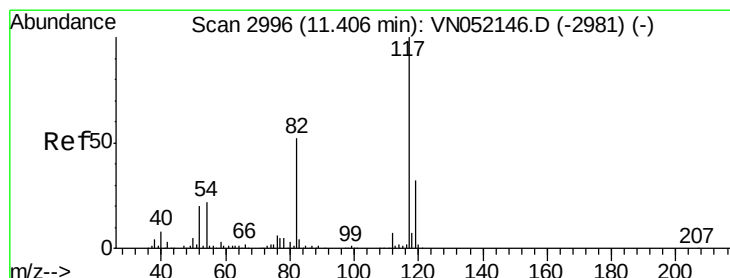
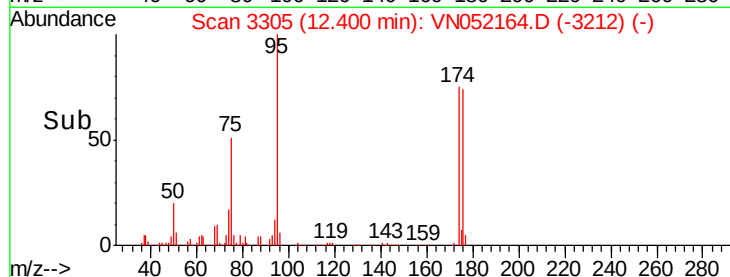
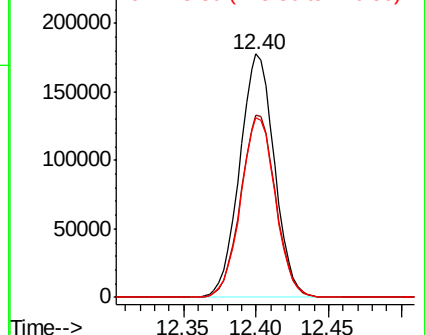
176 73.6 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VN052164.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052164.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052164.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

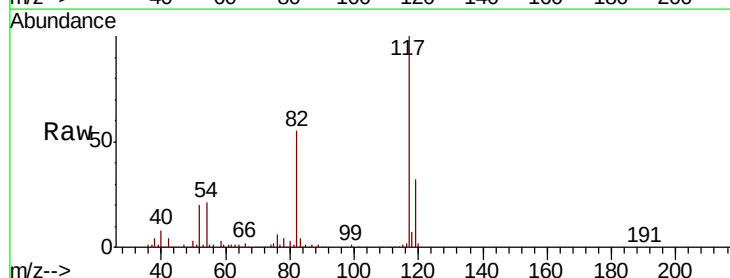
Tgt Ion: 117 Resp: 563057

Ion Ratio Lower Upper

117 100

82 54.9 41.9 62.9

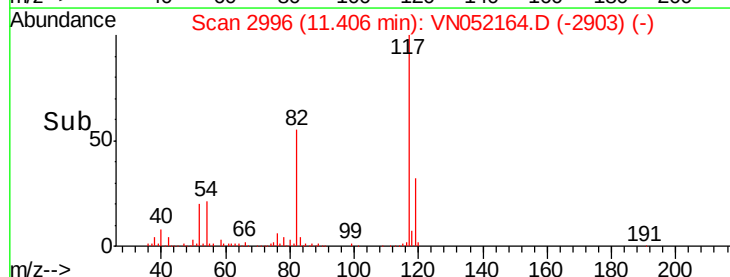
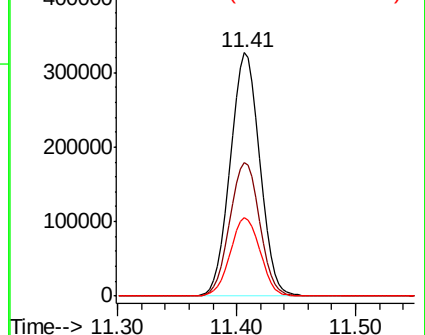
119 32.1 25.7 38.5

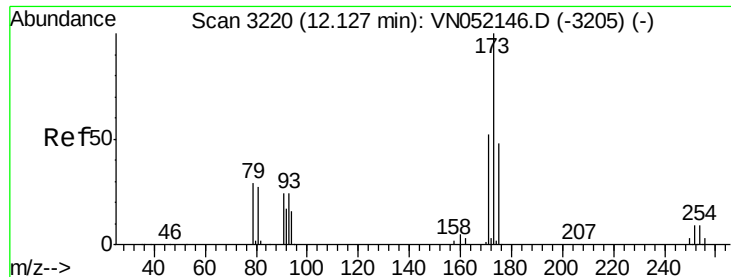


Abundance Ion 116.90 (116.60 to 117.60): VN052164.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052164.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052164.D (-2981) (-)





#71

Bromoform

Concen: 3.174 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

Instrument :

MSVOA_N

ClientSampled :

TP4-B

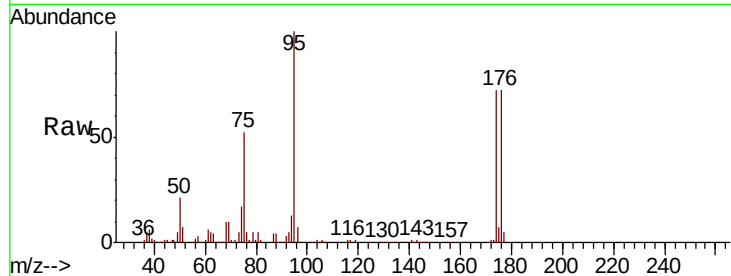
Tot Ion:173 Resp: 1031

Ion Ratio Lower Upper

173 100

175 1608.4 24.8 74.4#

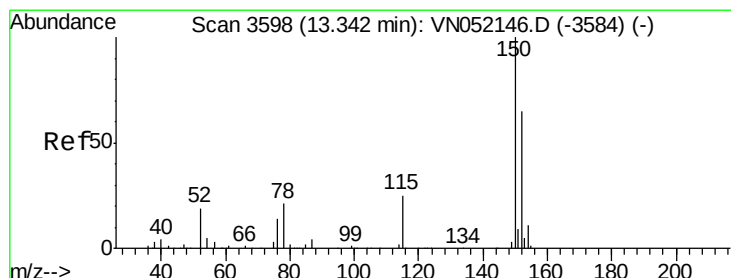
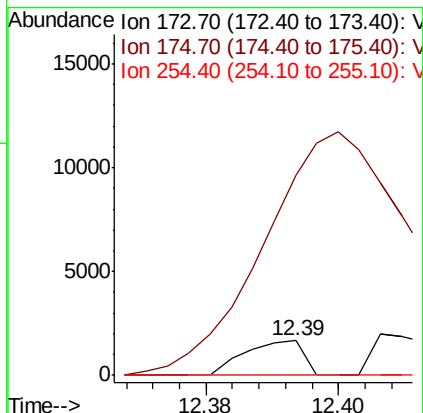
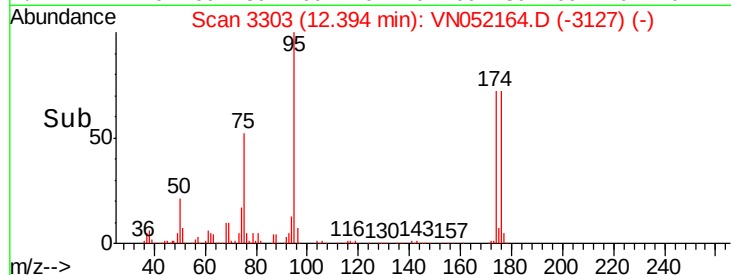
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

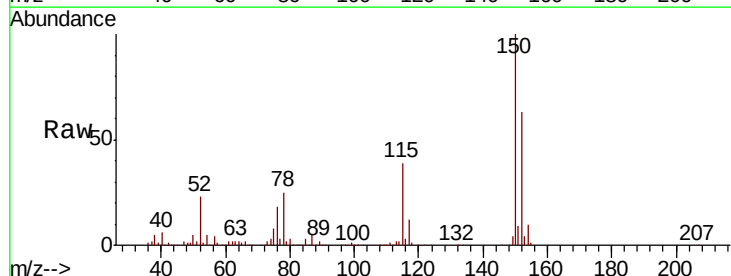
Tgt Ion:152 Resp: 238741

Ion Ratio Lower Upper

152 100

115 59.9 28.5 85.5

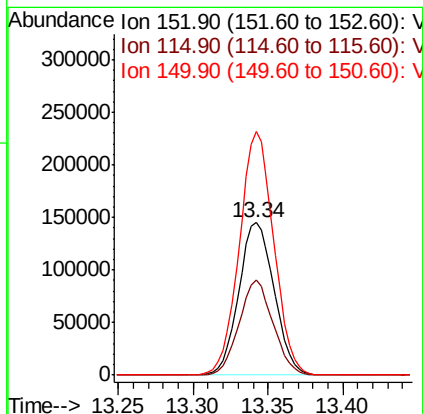
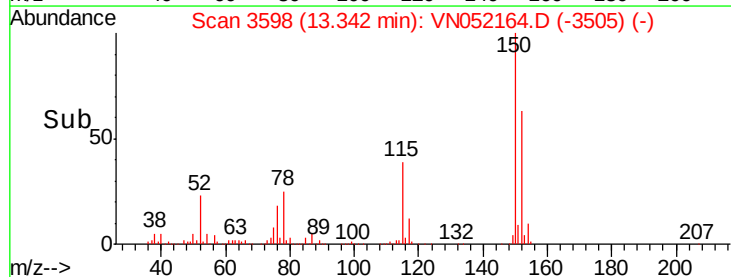
150 154.9 0.0 348.6

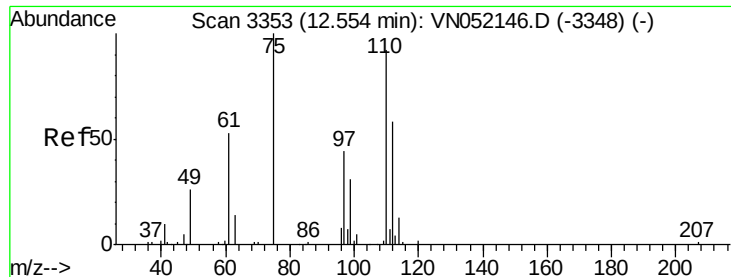


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.980 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

Instrument :

MSVOA_N

ClientSampled :

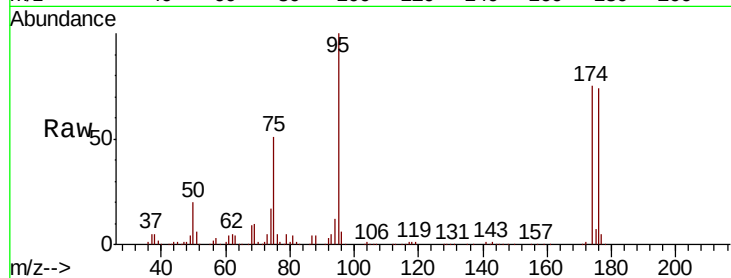
TP4-B

Tot Ion: 75 Resp: 150209

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

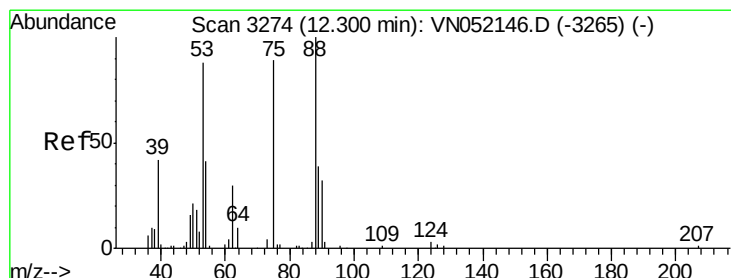
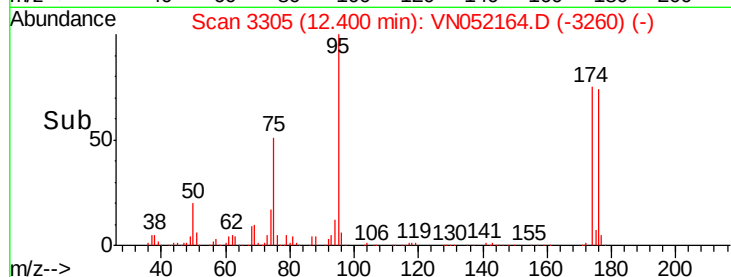
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 143.153 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

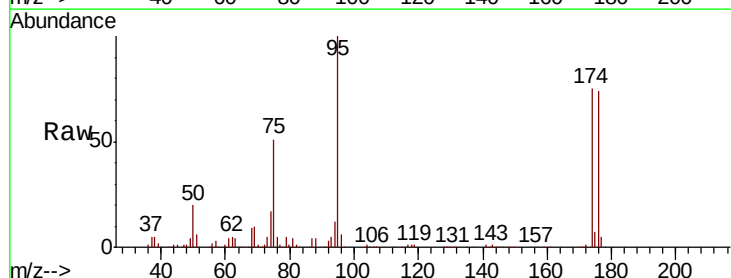
Tgt Ion: 75 Resp: 150209

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

120000

100000

80000

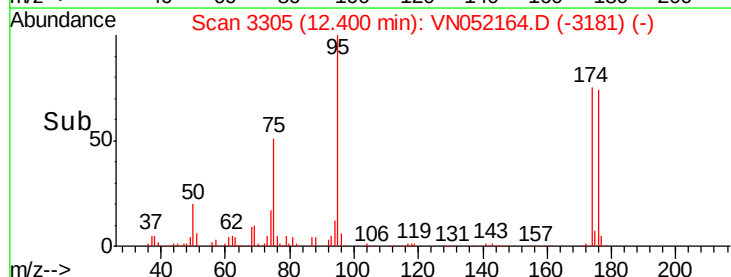
60000

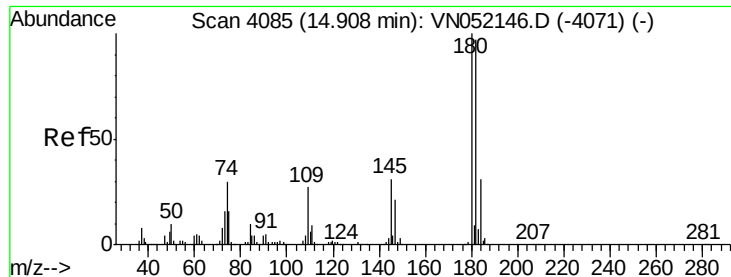
40000

20000

0

Time-->





#93

1,2,4-Trichlorobenzene

Concen: 2.278 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

Instrument :

MSVOA_N

ClientSampled :

TP4-B

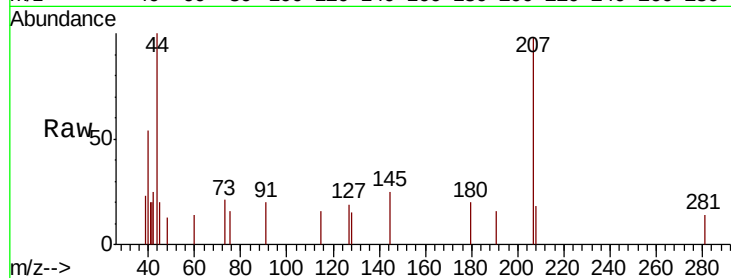
Tot Ion:180 Resp: 146

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.4#

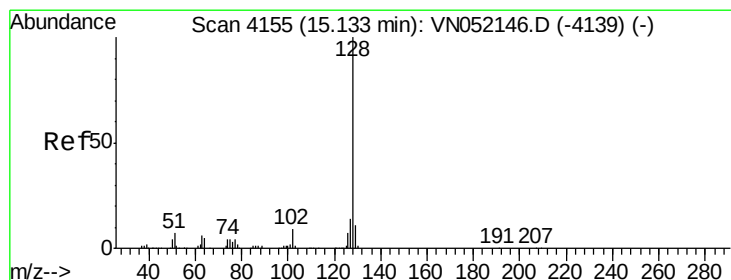
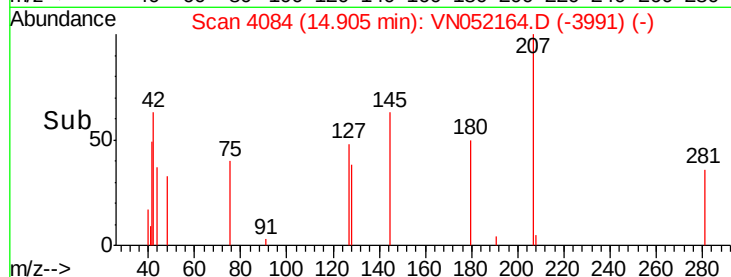
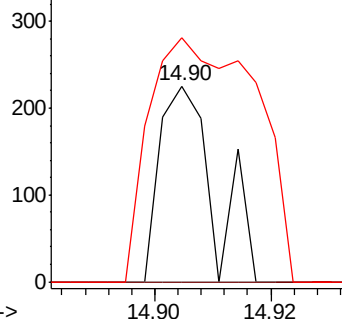
145 245.9 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.113 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN052164.D

Acq: 5 Nov 2018 23:01

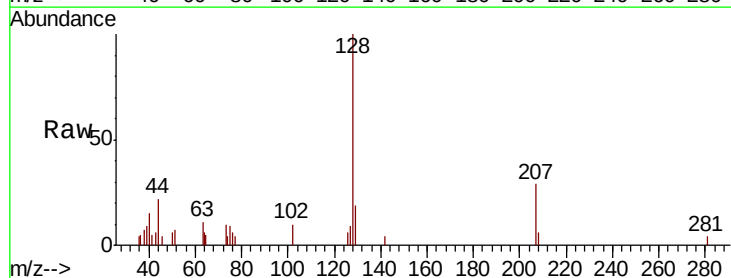
Tgt Ion:128 Resp: 8134

Ion Ratio Lower Upper

128 100

127 8.9 10.8 16.2#

129 13.0 9.1 13.7



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

