

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\
 Data File : VN052368.D
 Acq On : 16 Nov 2018 16:47
 Operator : MD\SY
 Sample : J5942-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VW-F1

Quant Time: Nov 16 22:41:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	298277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	514156	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	439406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	153422	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	219201	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
35) Dibromofluoromethane	7.59	113	169558	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
50) Toluene-d8	10.09	98	648940	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
62) 4-Bromofluorobenzene	12.40	95	190235	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	

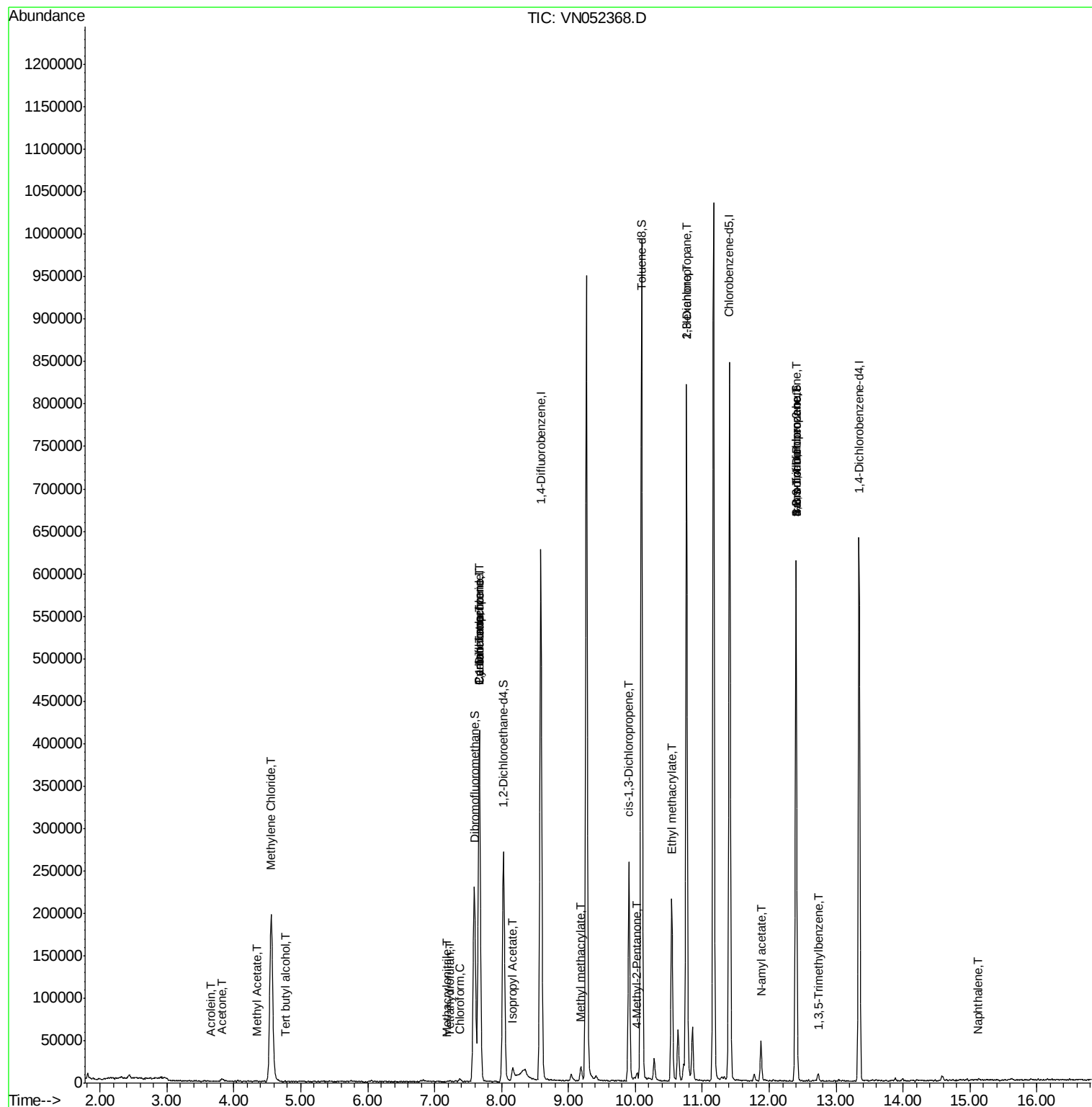
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	66	0.297	ug/l #	72
13) Acrolein	3.65	56	29	21.849	ug/l #	1
16) Acetone	3.82	43	2792	2.407	ug/l #	75
18) Methyl Acetate	4.34	43	1163	0.786	ug/l #	69
20) Methylene Chloride	4.56	84	132695	37.427	ug/l	98
29) Tetrahydrofuran	7.21	42	537	0.501	ug/l #	40
30) Chloroform	7.37	83	1992	0.303	ug/l #	70
31) Cyclohexane	7.66	56	9127	0.372	ug/l #	35
36) 1,1-Dichloropropene	7.67	75	29825	5.787	ug/l #	51
38) Carbon Tetrachloride	7.67	117	32784	6.924	ug/l #	15
41) Methacrylonitrile	7.18	41	62	3.723	ug/l #	100
43) Isopropyl Acetate	8.17	43	20873	2.892	ug/l	97
48) Methyl methacrylate	9.18	41	6715	1.834	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	6753	1.859	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	38648	6.773	ug/l #	73
56) Ethyl methacrylate	10.54	69	916	0.218	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7637	1.350	ug/l #	43
59) 2-Hexanone	10.76	43	133356	53.369	ug/l #	55
71) Bromoform	12.40	173	1704	0.911	ug/l #	1
74) N-amyl acetate	11.88	43	16056	3.655	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	108804	41.795	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3762	0.384	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	108804	135.557	ug/l #	5
95) Naphthalene	15.13	128	1439	2.856	ug/l #	69

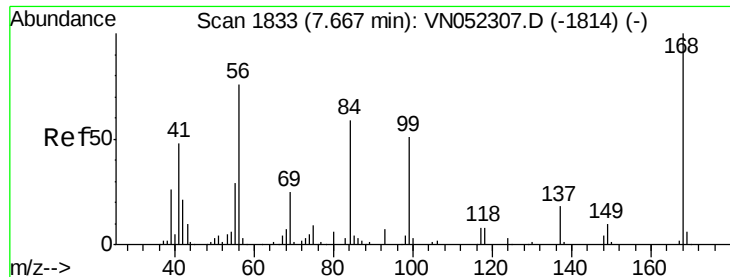
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

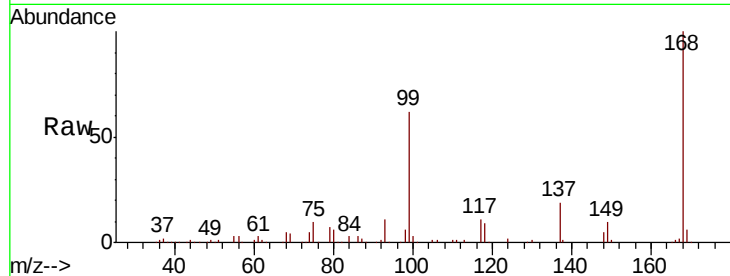
Instrument :
MSVOA_N
ClientSampleId :
VW-F1

Tot Ion:168 Resp: 298277

Ion Ratio Lower Upper

168 100

99 62.2 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

150000

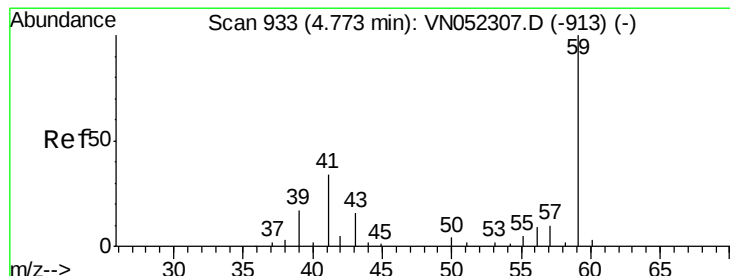
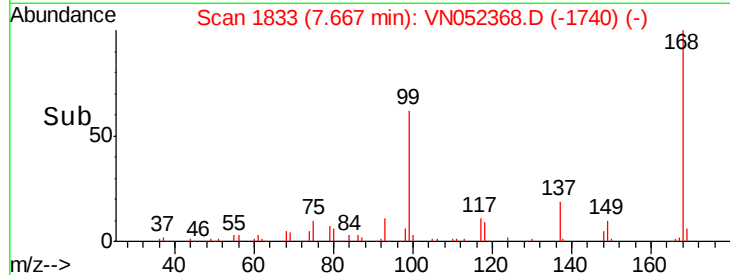
100000

50000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.297 ug/l

RT: 4.77 min Scan# 933

Delta R.T. 0.00 min

Lab File: VN052368.D

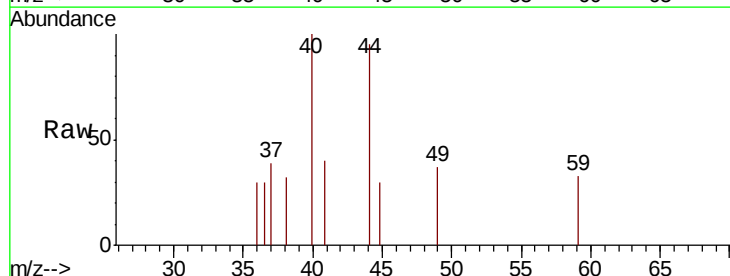
Acq: 16 Nov 2018 16:47

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052307.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-913) (-)

4.77

200

150

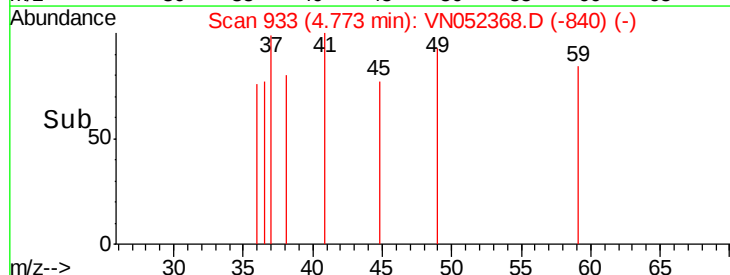
100

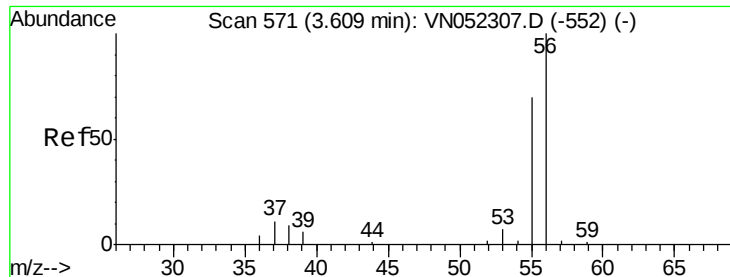
50

0

Time-->

4.76 4.77 4.78





#13

Acrolein

Concen: 21.849 ug/l

RT: 3.65 min Scan# 583

Delta R.T. 0.04 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Instrument :

MSVOA_N

ClientSampled :

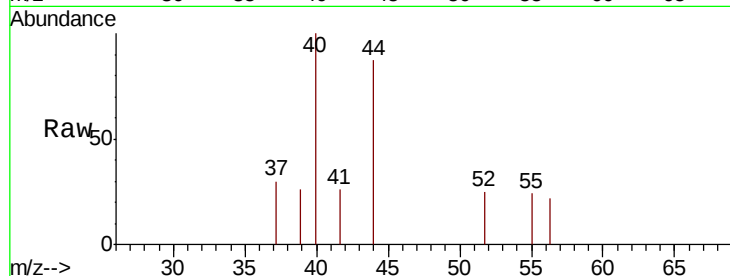
VW-F1

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

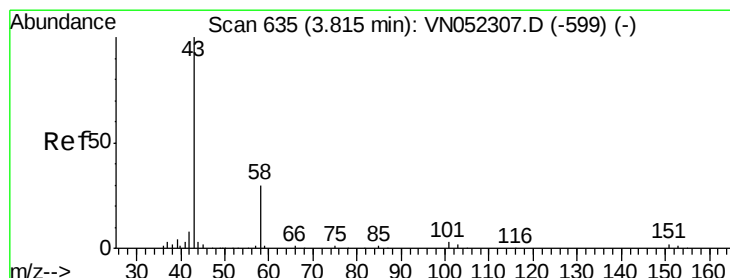
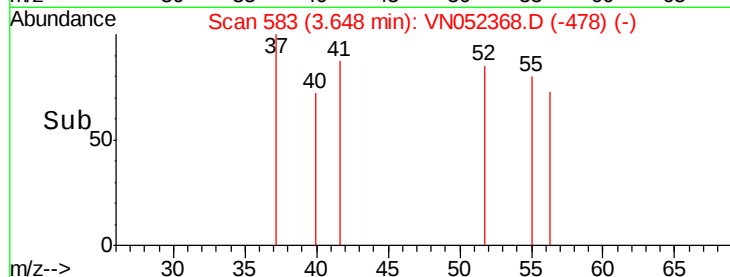
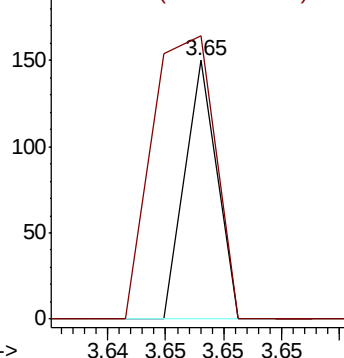
56 100

55 210.3 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 2.407 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052368.D

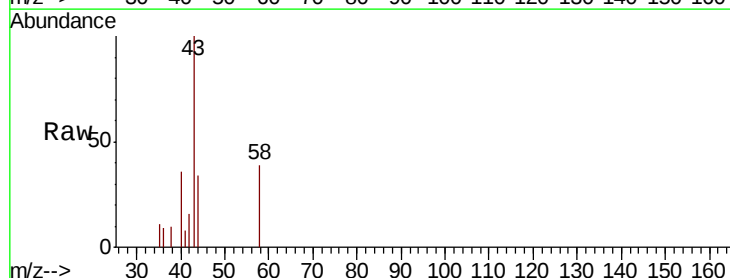
Acq: 16 Nov 2018 16:47

Tgt Ion: 43 Resp: 2792

Ion Ratio Lower Upper

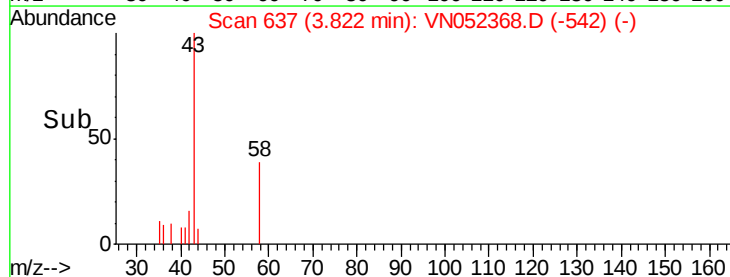
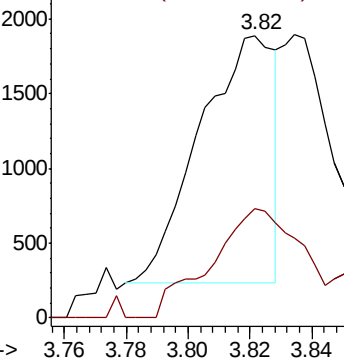
43 100

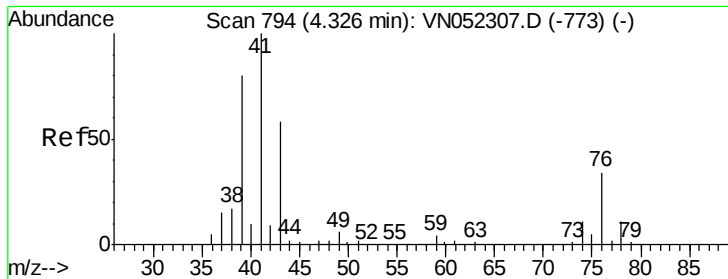
58 44.1 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

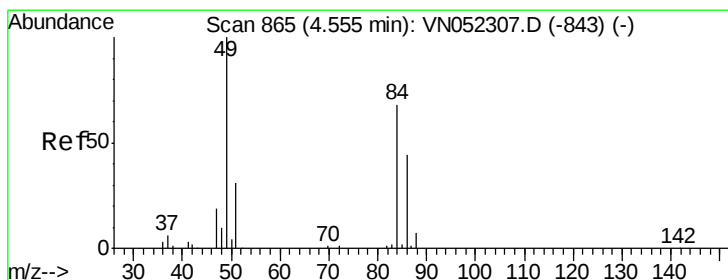
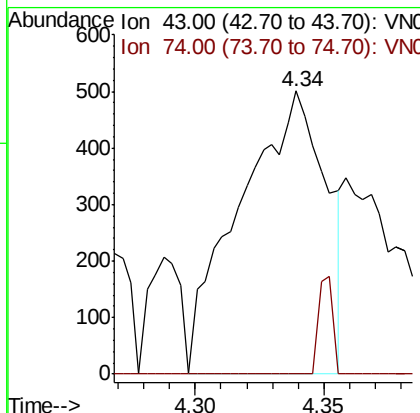
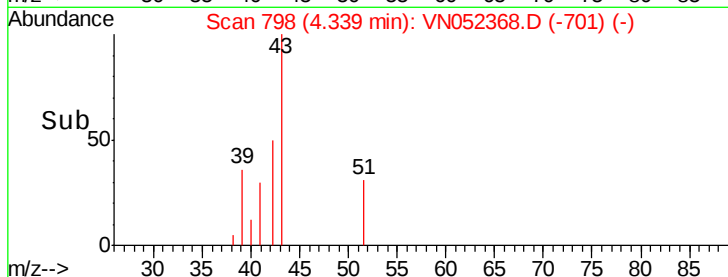
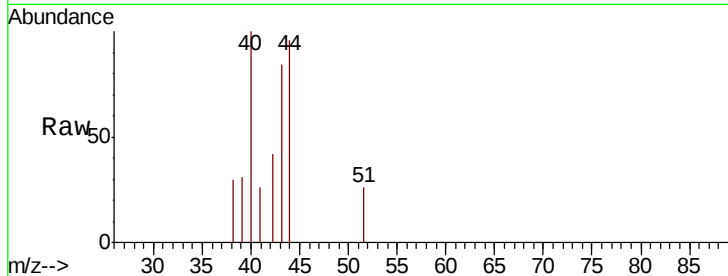




#18
Methyl Acetate
Concen: 0.786 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

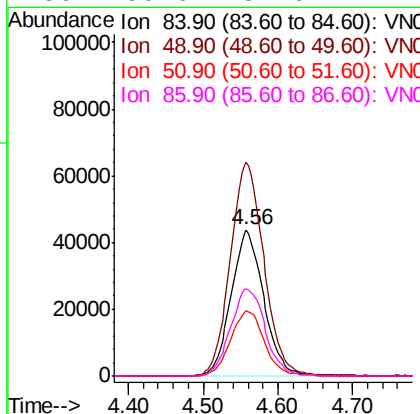
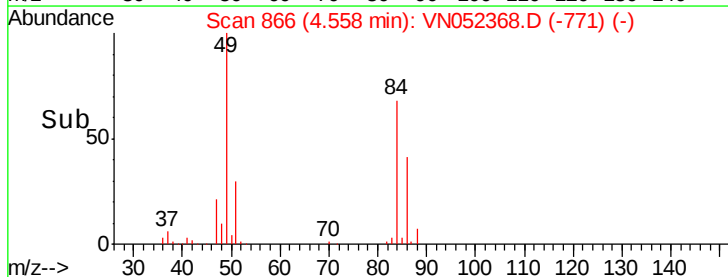
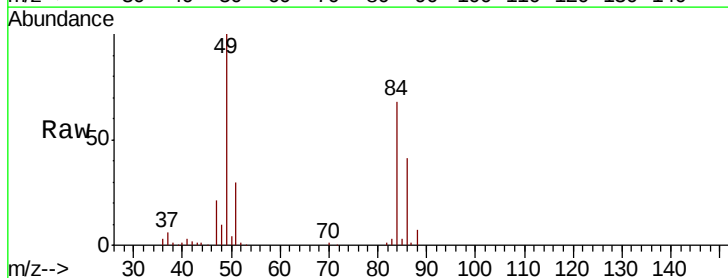
Instrument :
MSVOA_N
ClientSampled :
VW-F1

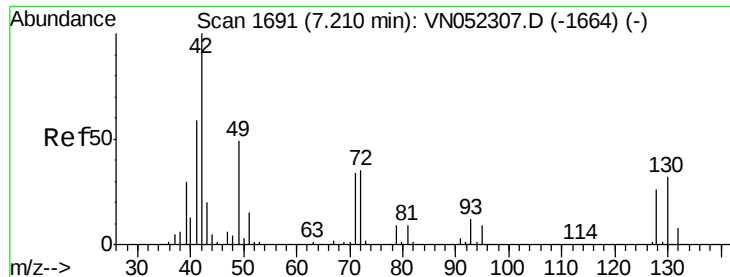
Tot Ion: 43 Resp: 1163
Ion Ratio Lower Upper
43 100
74 5.6 15.9 23.9#



#20
Methylene Chloride
Concen: 37.427 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

Tgt Ion: 84 Resp: 132695
Ion Ratio Lower Upper
84 100
49 146.3 118.2 177.2
51 44.4 36.1 54.1
86 59.6 51.6 77.4





#29

Tetrahydrofuran

Concen: 0.501 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Instrument :

MSVOA_N

ClientSampled :

VW-F1

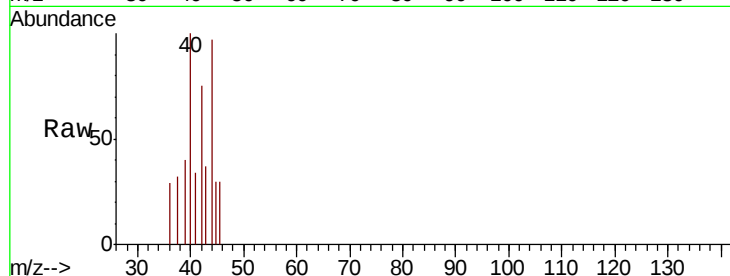
Tot Ion: 42 Resp: 537

Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

71 0.0 26.7 40.1#

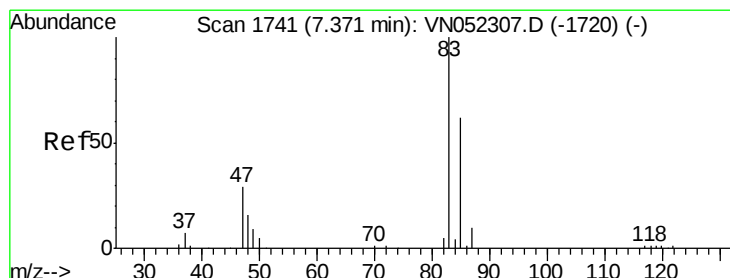
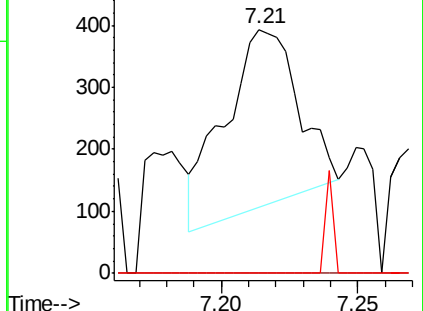
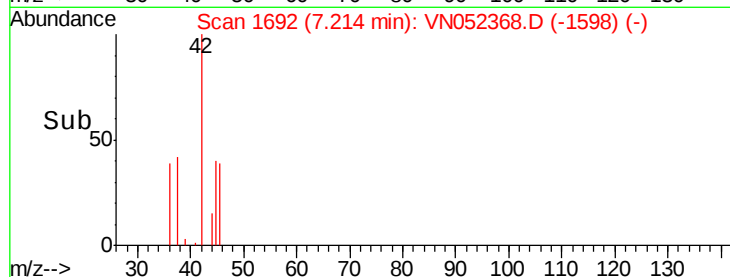


Abundance Ion 42.00 (41.70 to 42.70): VN052307.D (-1664) (-)

Ion 72.00 (71.70 to 72.70): VN052307.D (-1664) (-)

Ion 71.00 (70.70 to 71.70): VN052307.D (-1664) (-)

Time-->



#30

Chloroform

Concen: 0.303 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN052368.D

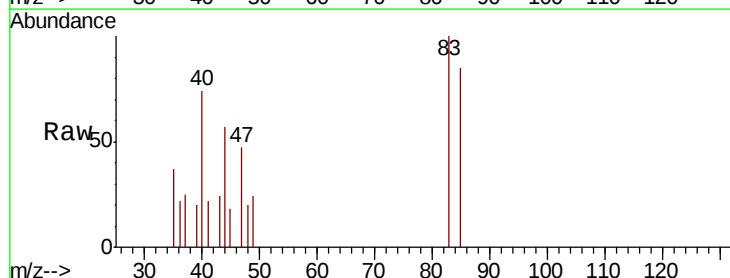
Acq: 16 Nov 2018 16:47

Tgt Ion: 83 Resp: 1992

Ion Ratio Lower Upper

83 100

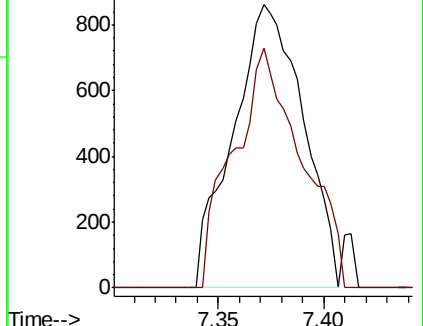
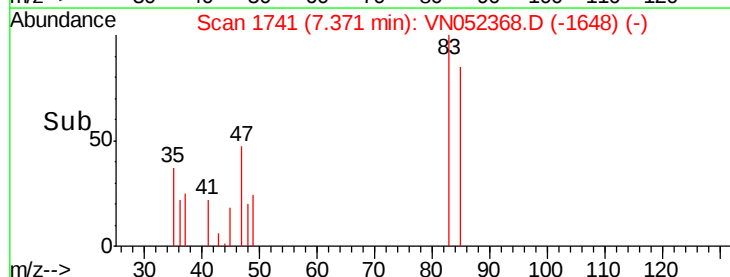
85 84.9 49.4 74.2#

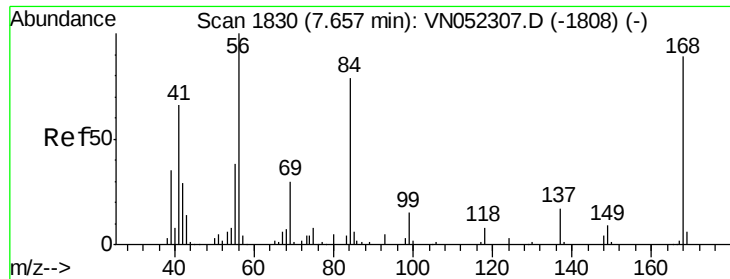


Abundance Ion 82.90 (82.60 to 83.60): VN052307.D (-1720) (-)

Ion 84.90 (84.60 to 85.60): VN052307.D (-1720) (-)

Time-->

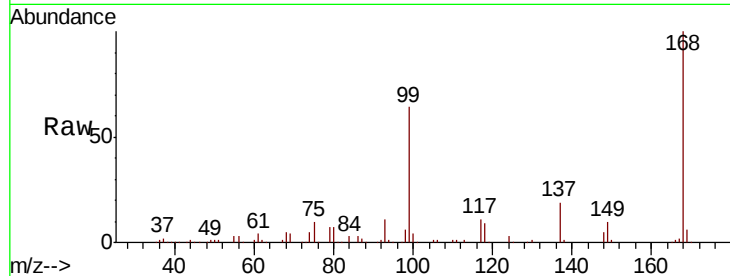




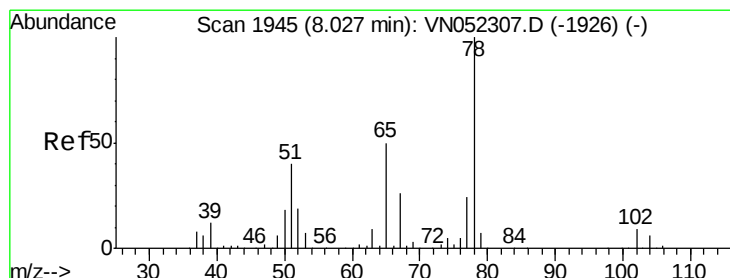
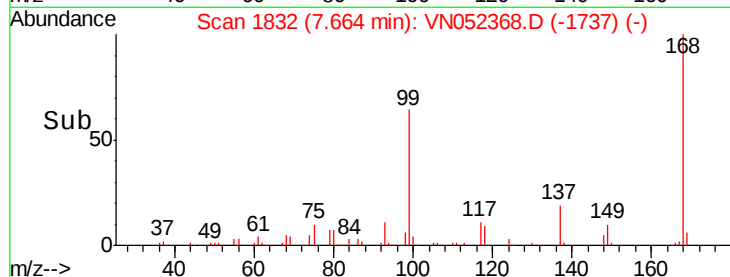
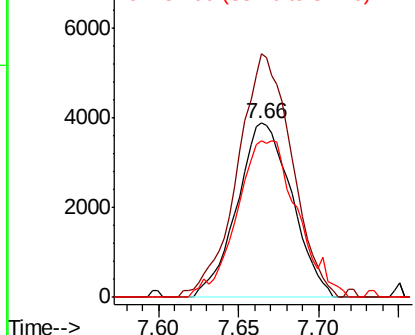
#31
Cyclohexane
Concen: 0.372 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

Instrument :
MSVOA_N
ClientSampleId :
VW-F1

Tot Ion: 56 Resp: 9127
Ion Ratio Lower Upper
56 100
69 139.7 23.8 35.8#
84 89.9 63.0 94.6

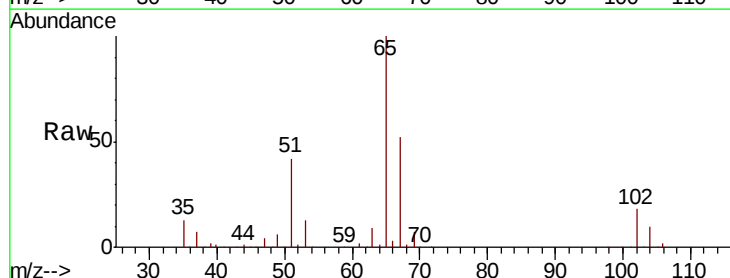


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

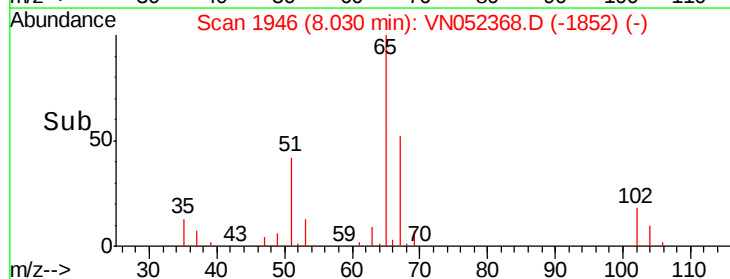
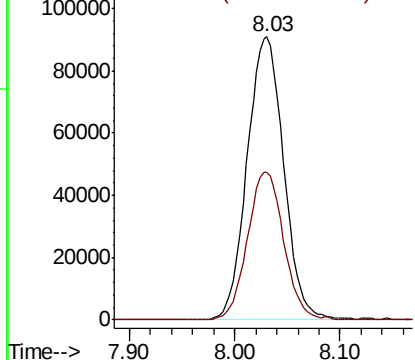


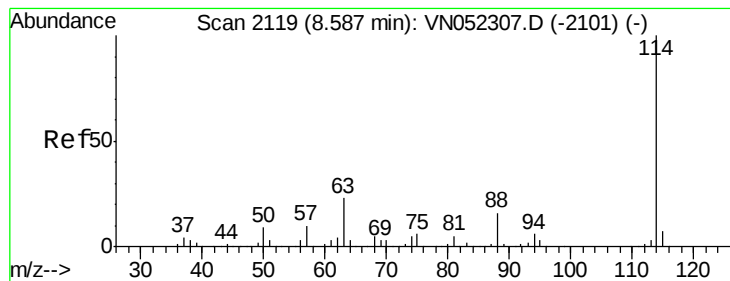
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

Tgt Ion: 65 Resp: 219201
Ion Ratio Lower Upper
65 100
67 51.7 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

VW-F1

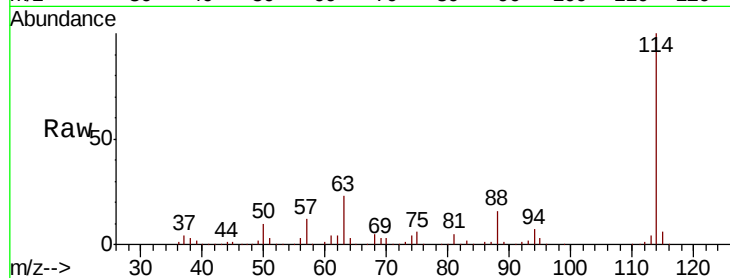
Tot Ion:114 Resp: 514156

Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.4

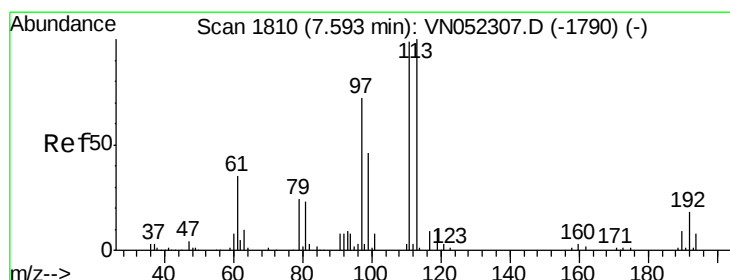
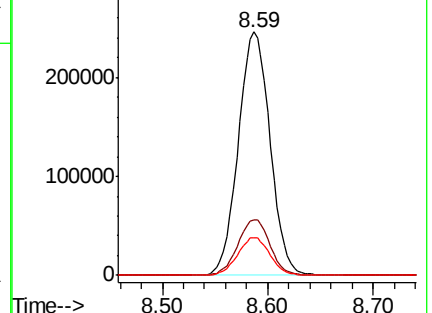
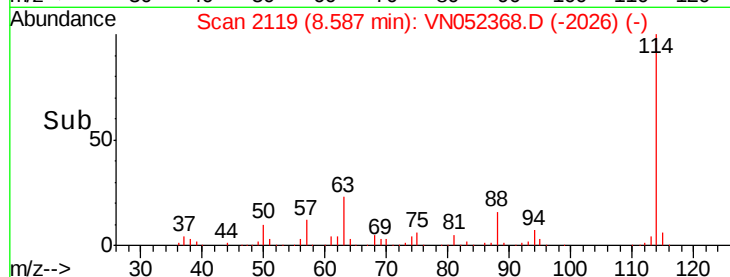
88 15.7 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

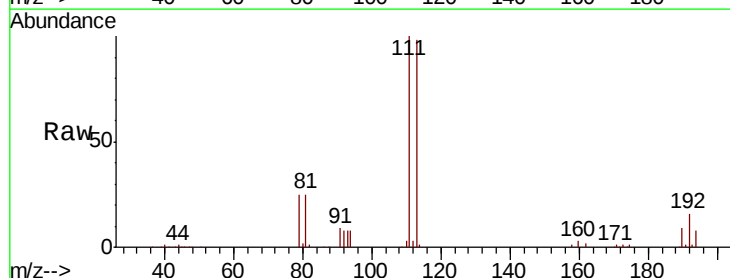
Tgt Ion:113 Resp: 169558

Ion Ratio Lower Upper

113 100

111 100.4 81.0 121.6

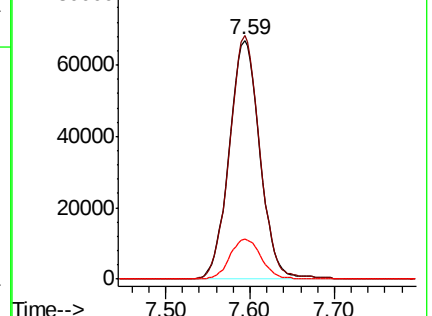
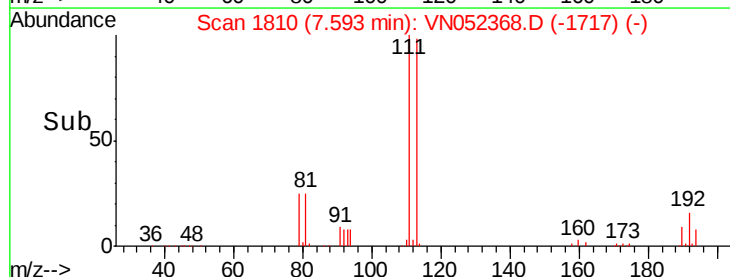
192 17.0 13.8 20.6

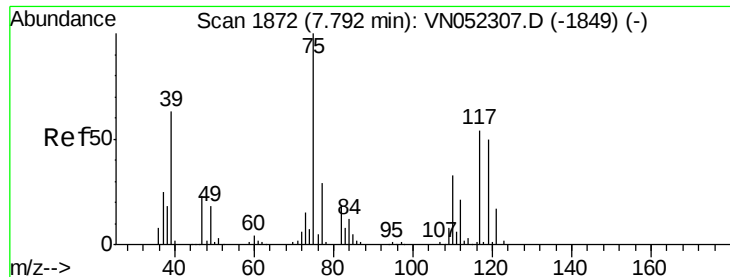


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

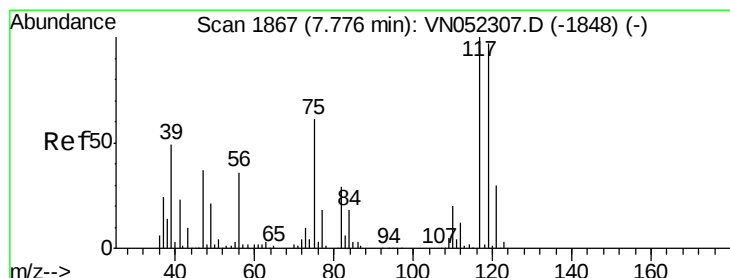
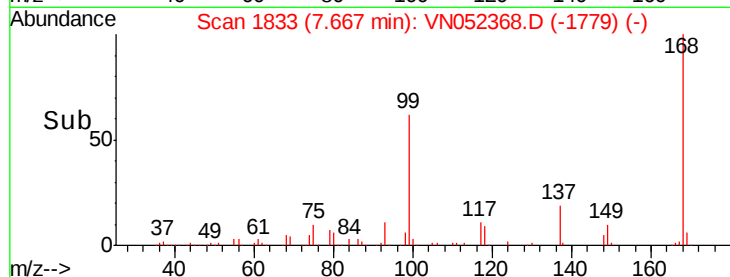
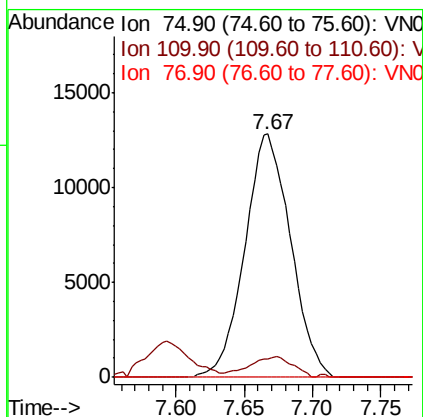
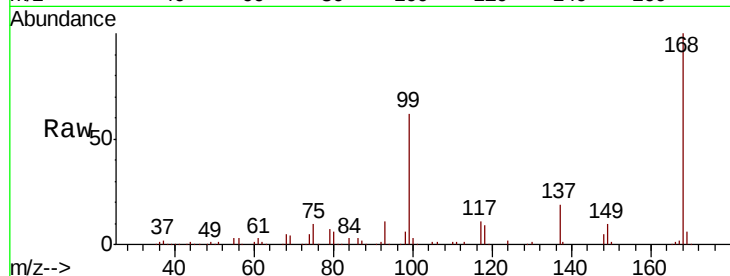




#36
 1,1-Dichloropropene
 Concen: 5.787 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052368.D
 Acq: 16 Nov 2018 16:47

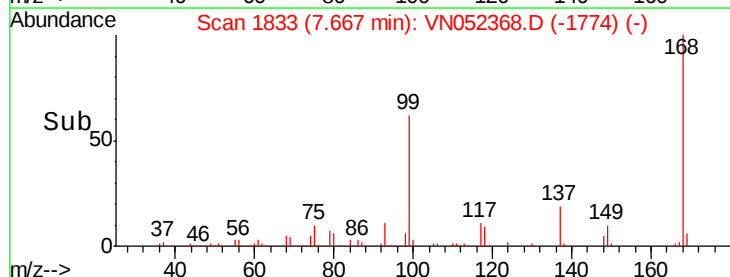
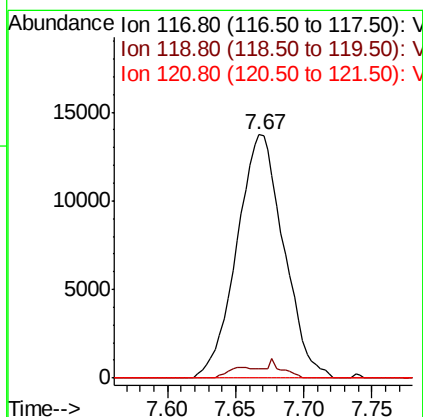
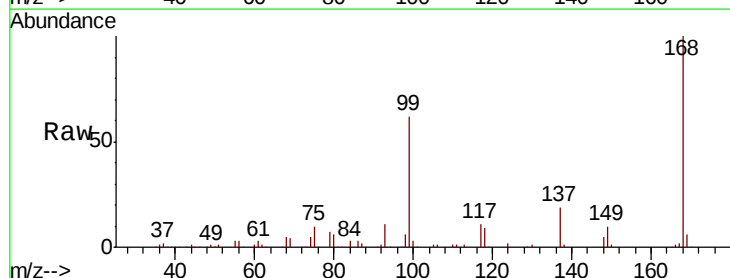
Instrument :
 MSVOA_N
 ClientSampleId :
 VW-F1

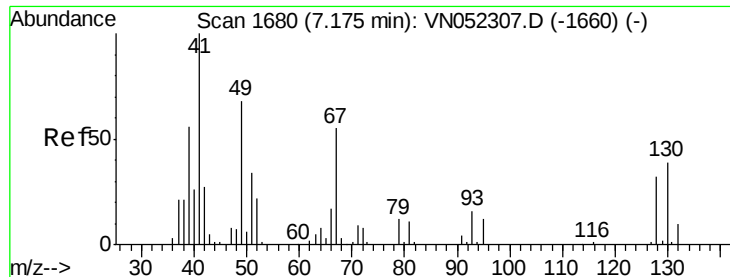
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.5	49.5#
77	0.0	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 6.924 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052368.D
 Acq: 16 Nov 2018 16:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.7	77.4	116.0#
121	0.0	24.0	36.0#

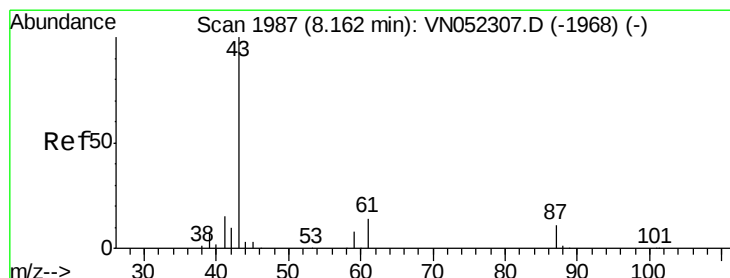
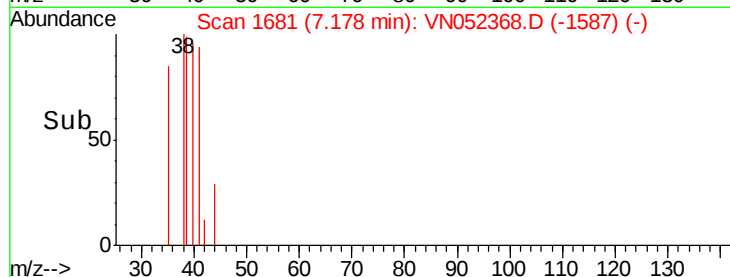
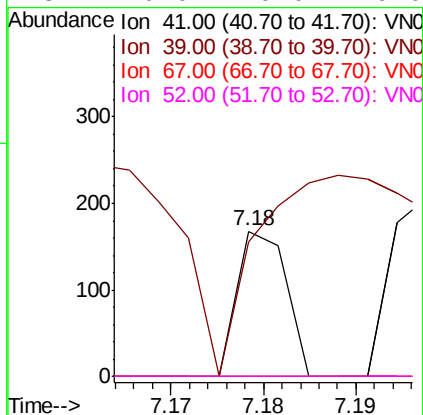
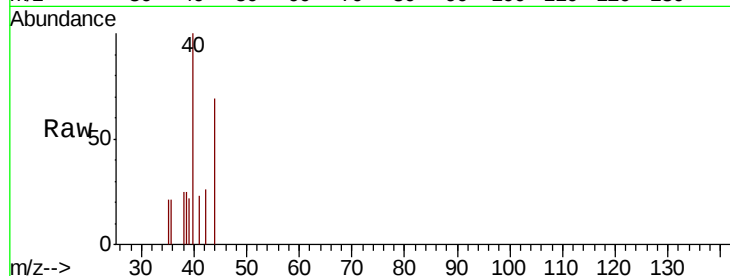




#41
Methacrylonitrile
Concen: 3.723 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

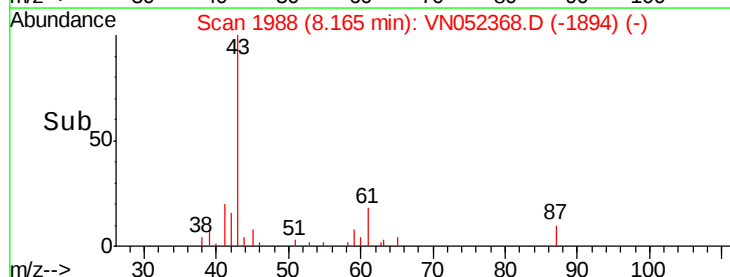
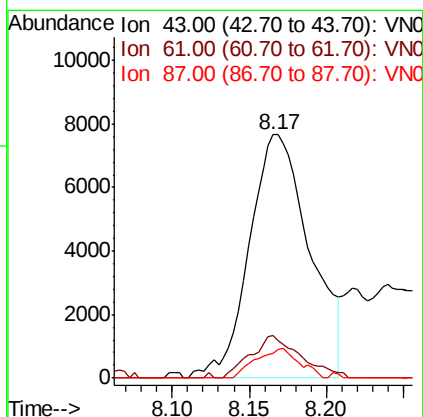
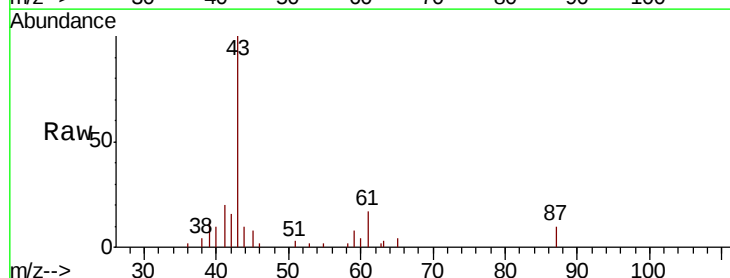
Instrument :
MSVOA_N
ClientSampled :
VW-F1

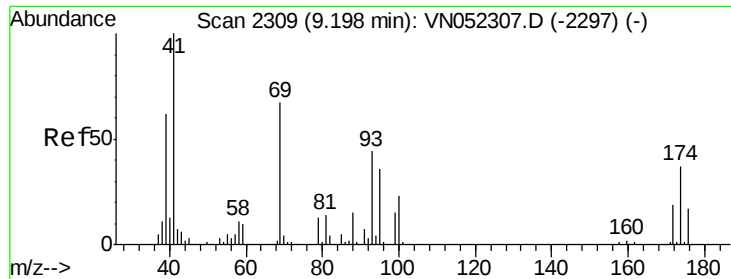
Tot Ion:	41	Resp:	62
Ion	Ratio	Lower	Upper
41	100		
39	448.4	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.892 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

Tgt Ion:	43	Resp:	20873
Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.0	18.0
87	8.7	8.3	12.5

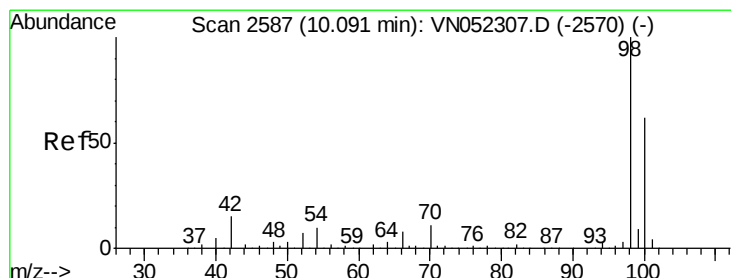
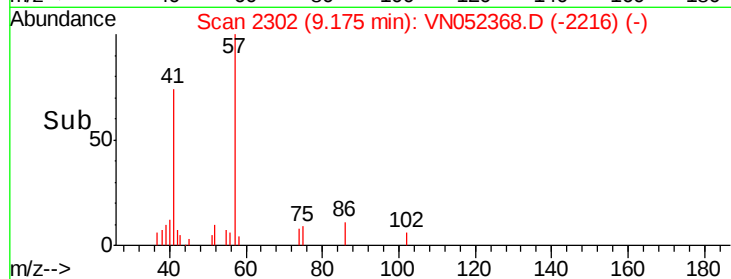
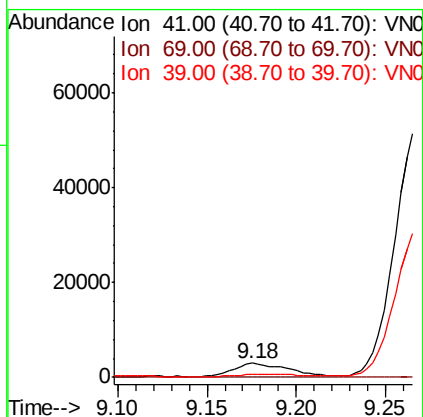
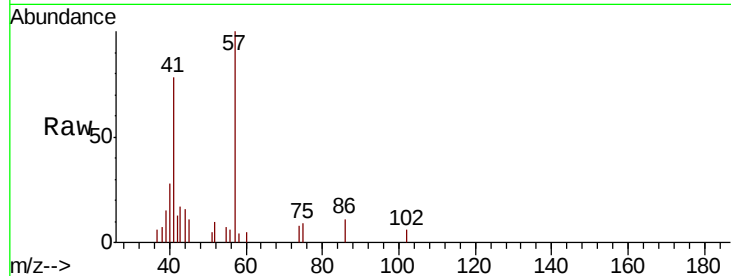




#48
Methyl methacrylate
Concen: 1.834 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

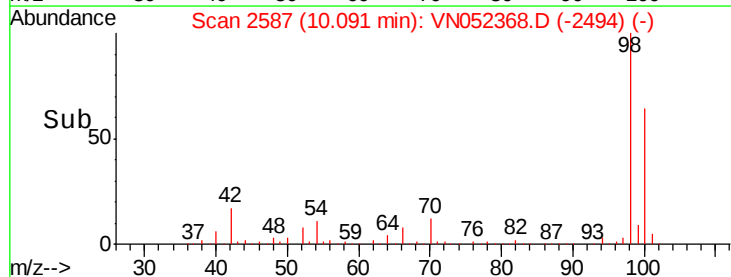
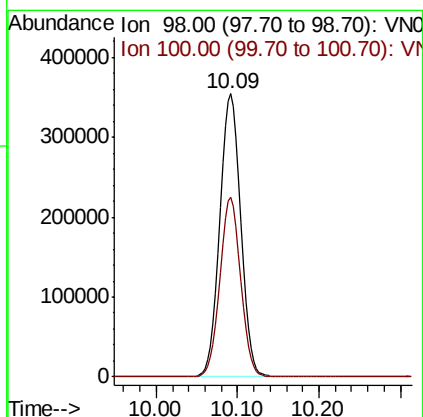
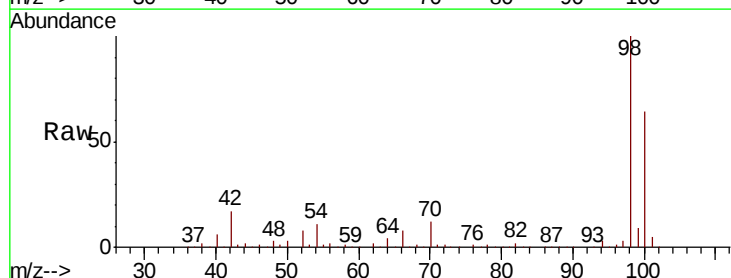
Instrument :
MSVOA_N
ClientSampleId :
VW-F1

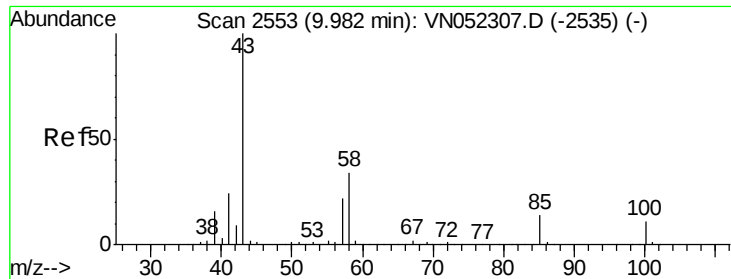
Tot Ion: 41 Resp: 6715
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

Tgt Ion: 98 Resp: 648940
Ion Ratio Lower Upper
98 100
100 62.6 49.5 74.3





#51

4-Methyl-2-Pentanone

Concen: 1.859 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Instrument :

MSVOA_N

ClientSampled :

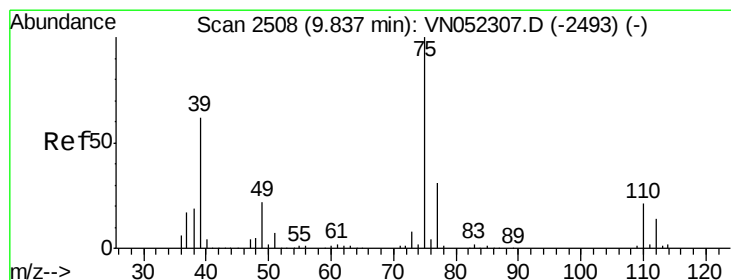
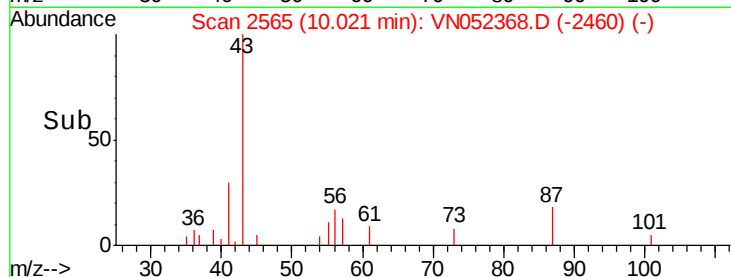
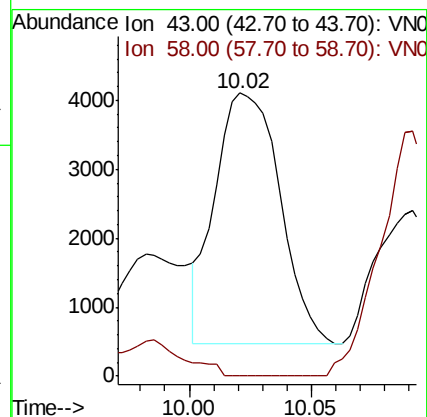
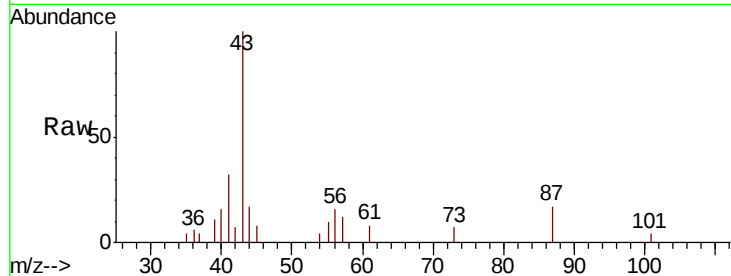
VW-F1

Tot Ion: 43 Resp: 6753

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 6.773 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

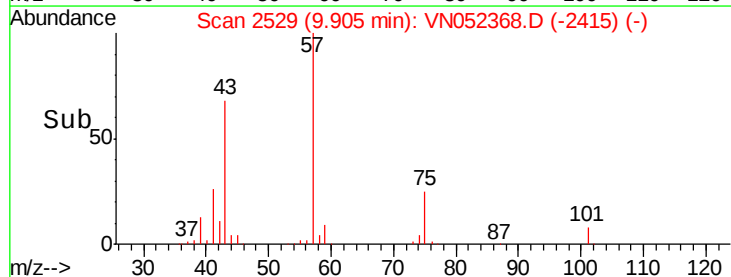
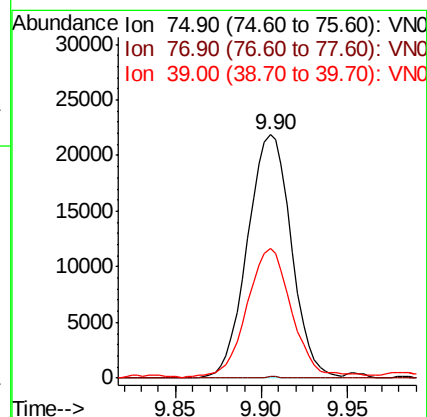
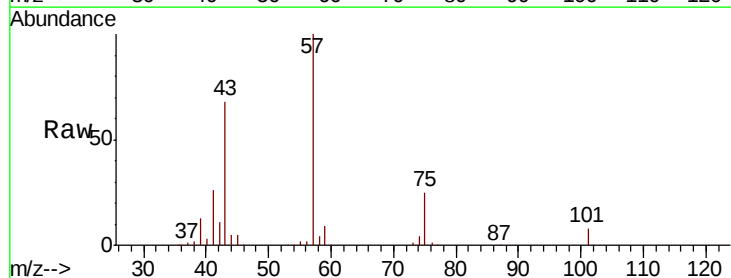
Tgt Ion: 75 Resp: 38648

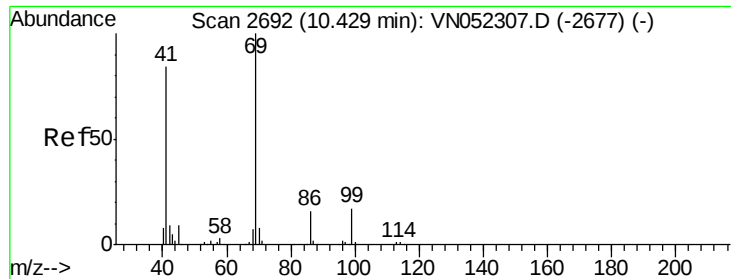
Ion Ratio Lower Upper

75 100

77 0.9 24.6 36.8#

39 52.6 49.9 74.9





#56

Ethyl methacrylate

Concen: 0.218 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Instrument :

MSVOA_N

ClientSampled :

VW-F1

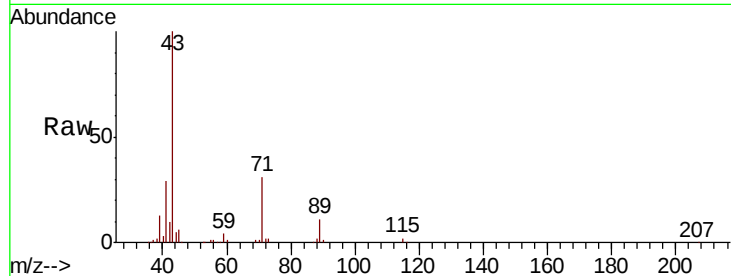
Tot Ion: 69 Resp: 916

Ion Ratio Lower Upper

69 100

41 5205.5 64.8 97.2#

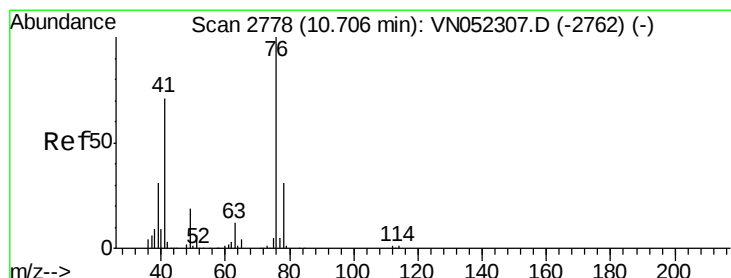
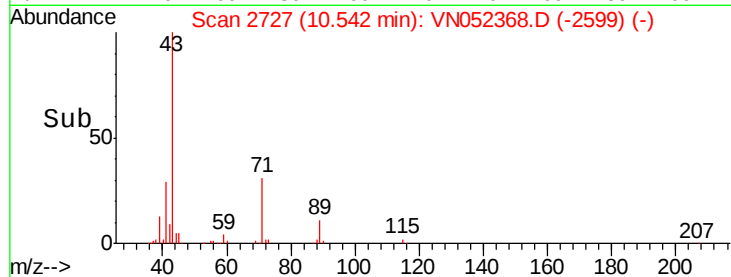
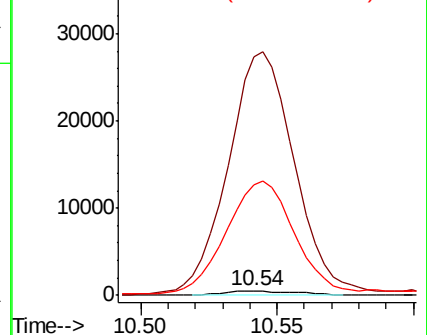
39 2494.5 41.0 61.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.350 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052368.D

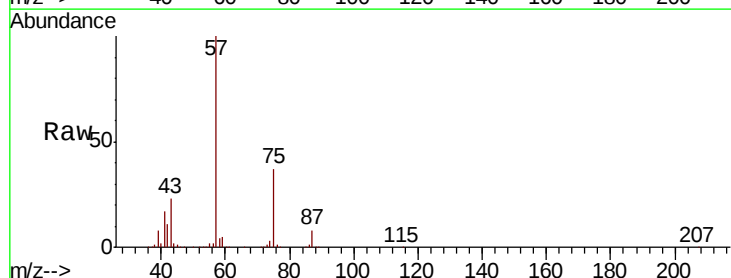
Acq: 16 Nov 2018 16:47

Tgt Ion: 76 Resp: 7637

Ion Ratio Lower Upper

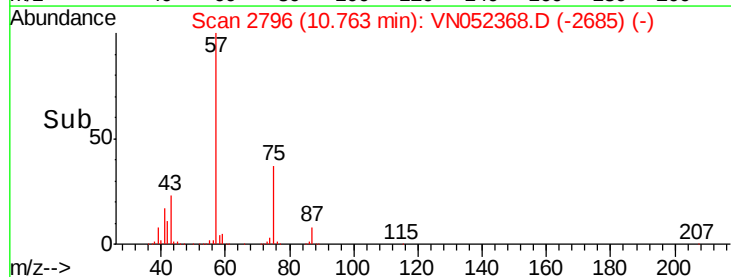
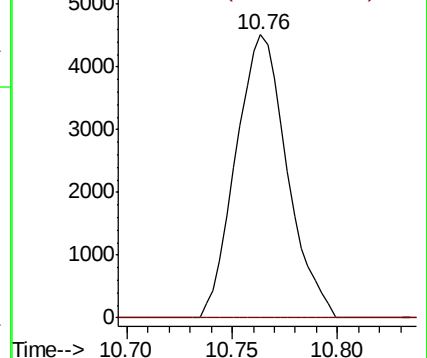
76 100

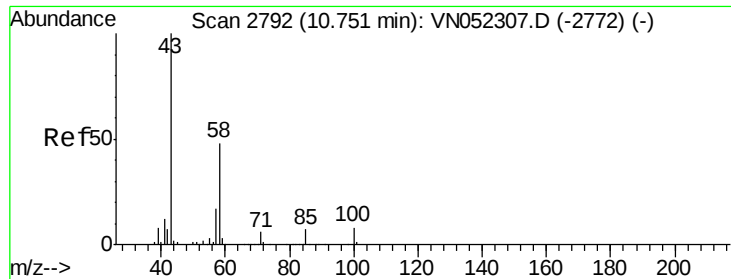
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

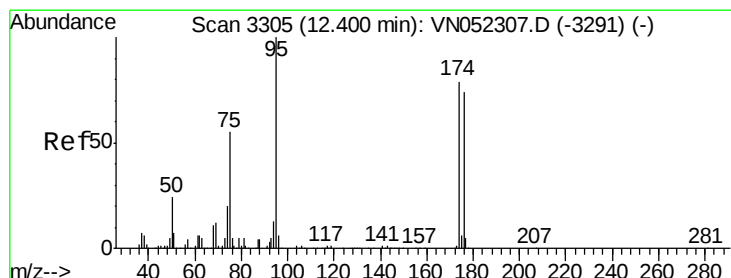
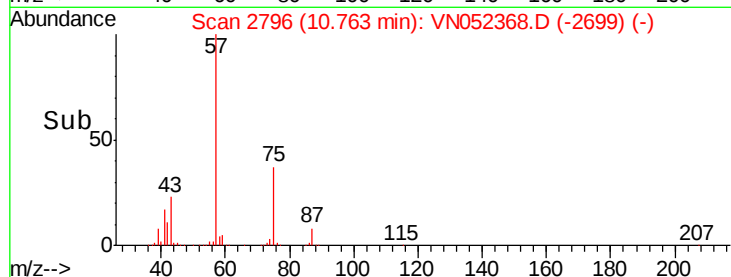
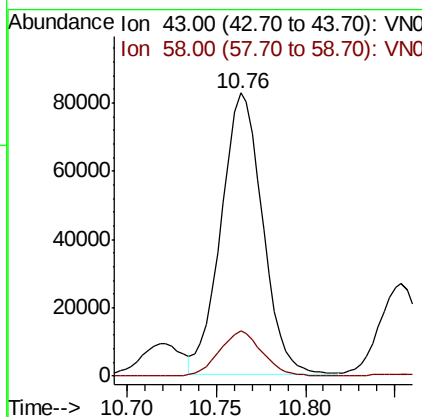
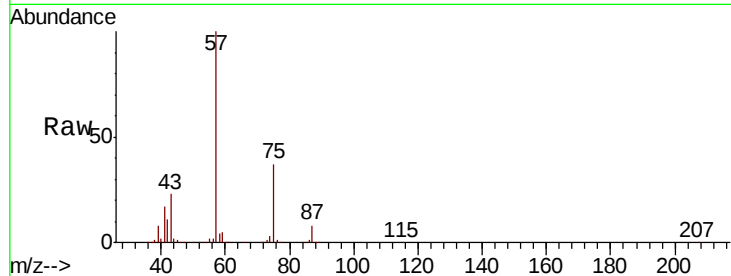




#59
2-Hexanone
Concen: 53.369 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

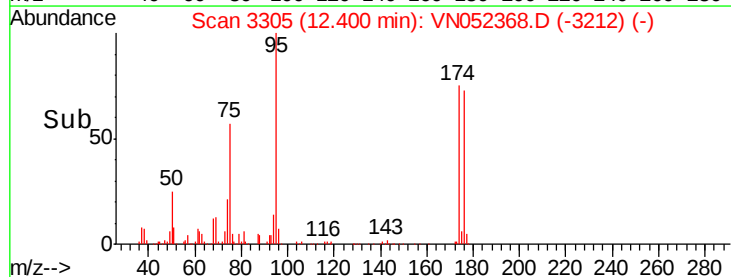
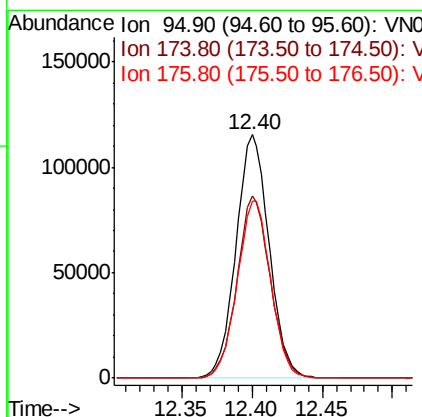
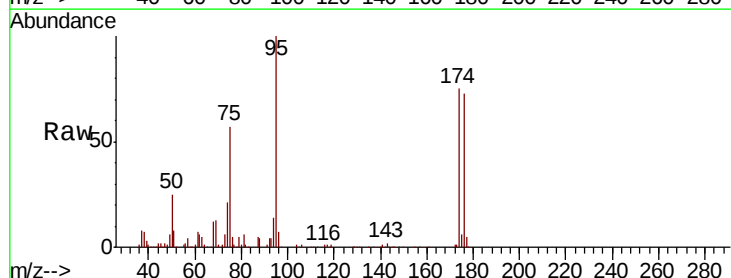
Instrument :
MSVOA_N
ClientSampled :
VW-F1

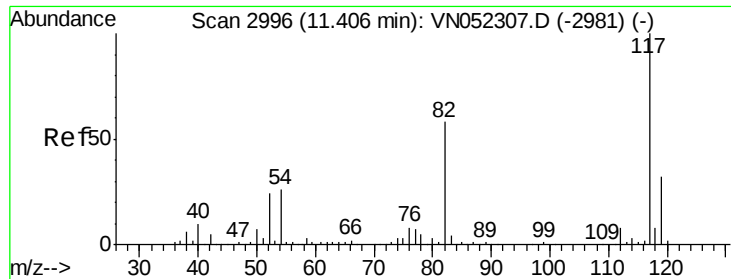
Tot Ion: 43 Resp: 133356
Ion Ratio Lower Upper
43 100
58 16.7 23.5 70.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

Tgt Ion: 95 Resp: 190235
Ion Ratio Lower Upper
95 100
174 75.0 0.0 156.0
176 73.5 0.0 148.4

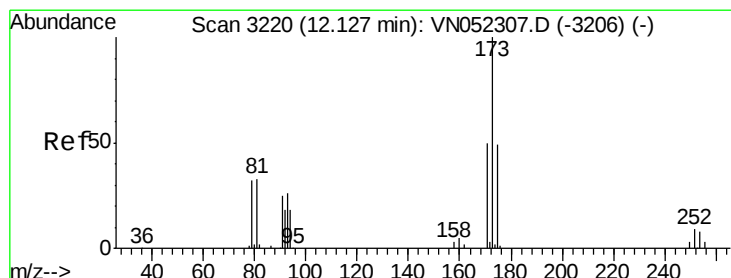
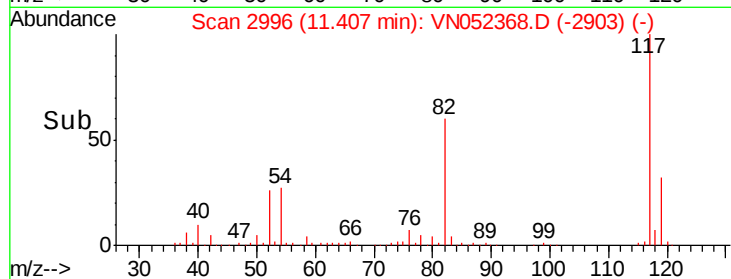
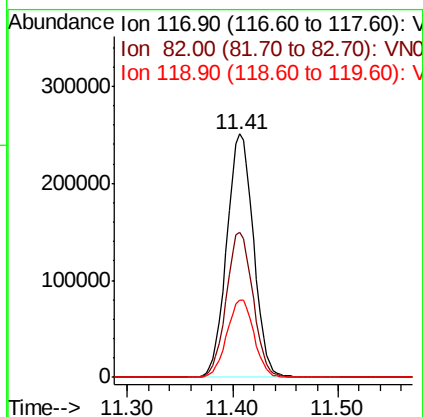
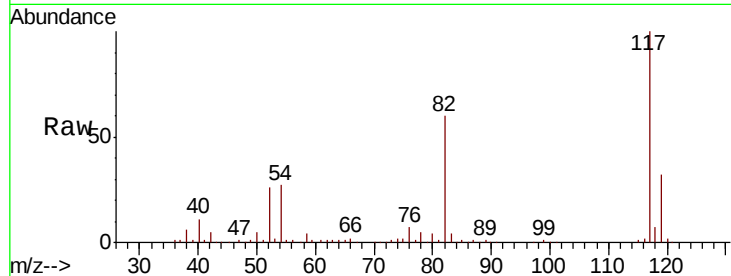




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

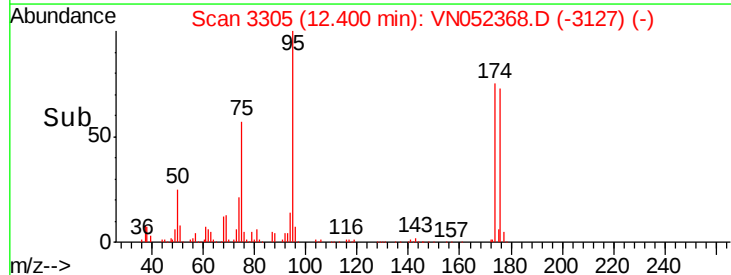
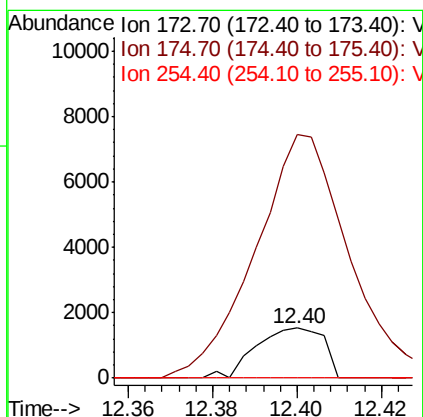
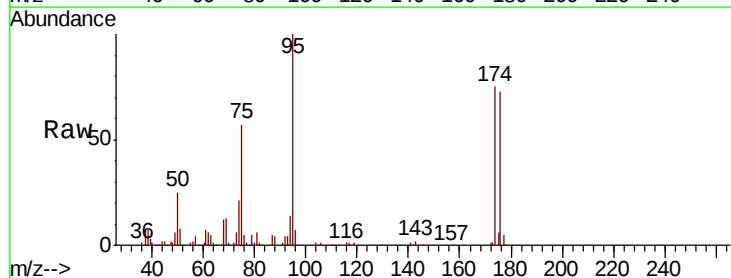
Instrument :
MSVOA_N
ClientSampleId :
VW-F1

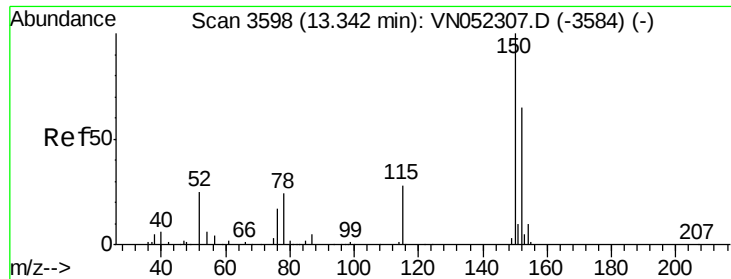
Tot Ion:117 Resp: 439406
Ion Ratio Lower Upper
117 100
82 59.6 46.5 69.7
119 31.7 25.7 38.5



#71
Bromoform
Concen: 0.911 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052368.D
Acq: 16 Nov 2018 16:47

Tgt Ion:173 Resp: 1704
Ion Ratio Lower Upper
173 100
175 596.0 25.0 75.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Instrument :

MSVOA_N

ClientSampleId :

VW-F1

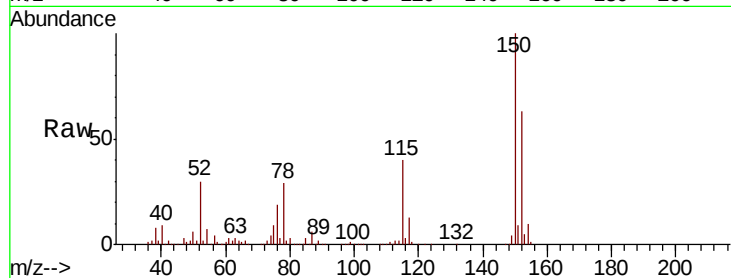
Tot Ion:152 Resp: 153422

Ion Ratio Lower Upper

152 100

115 61.7 30.3 91.0

150 158.5 0.0 348.2

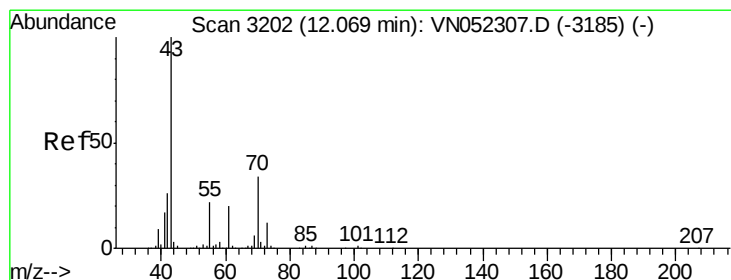
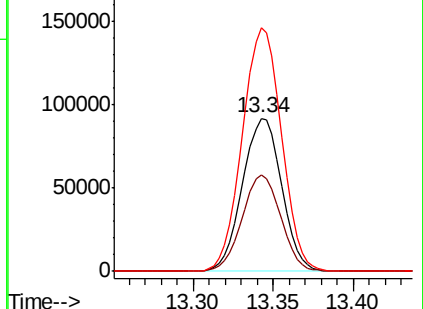
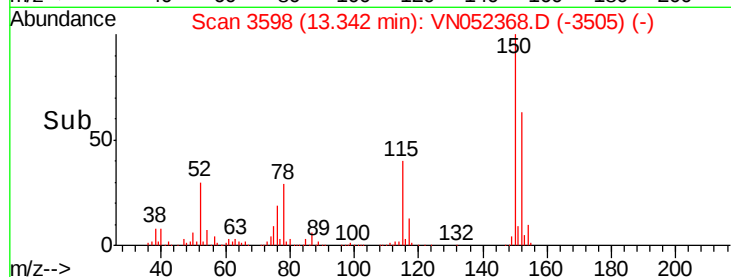


Abundance

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



#74

N-ethyl acetate

Concen: 3.655 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Tgt Ion: 43 Resp: 16056

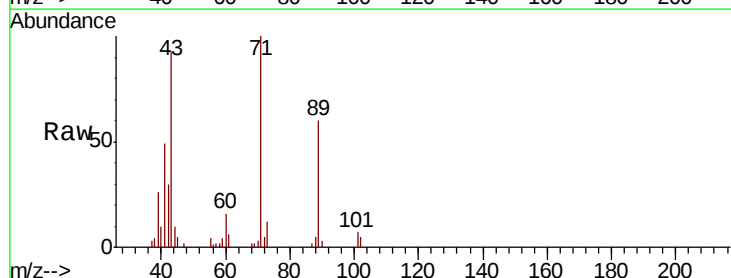
Ion Ratio Lower Upper

43 100

70 2.8 27.1 40.7#

55 3.3 17.4 26.0#

61 8.8 16.1 24.1#



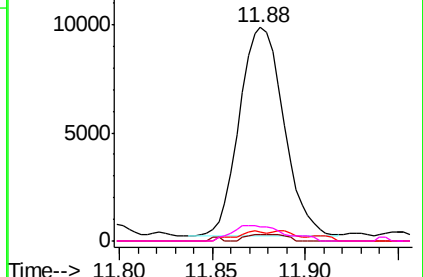
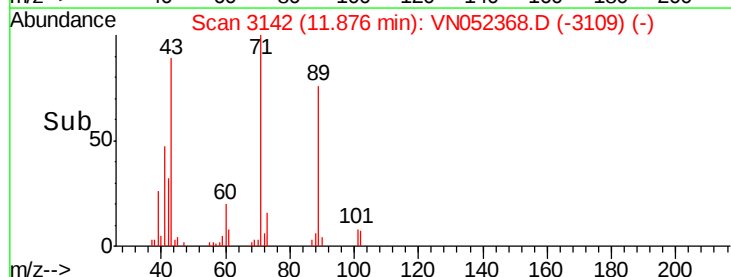
Abundance

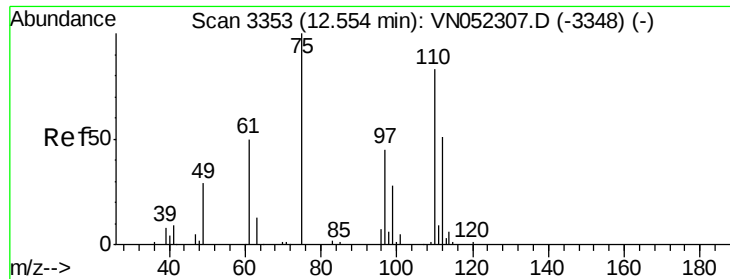
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 41.795 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Instrument :

MSVOA_N

ClientSampled :

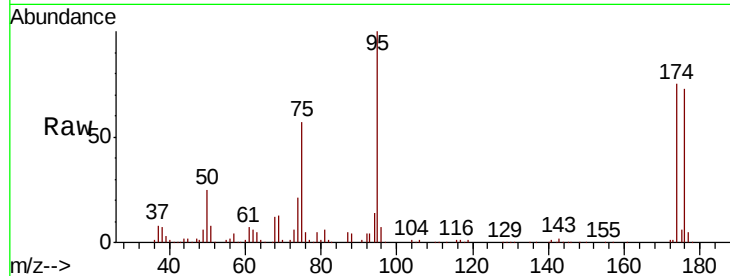
VW-F1

Tot Ion: 75 Resp: 108804

Ion Ratio Lower Upper

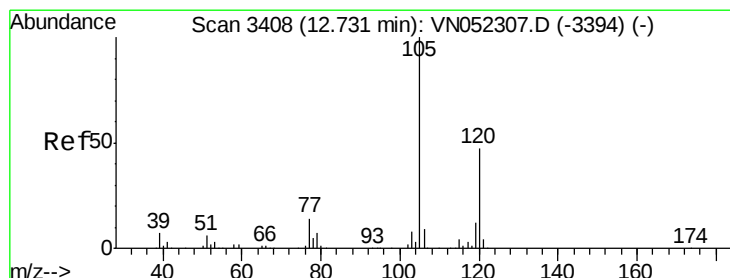
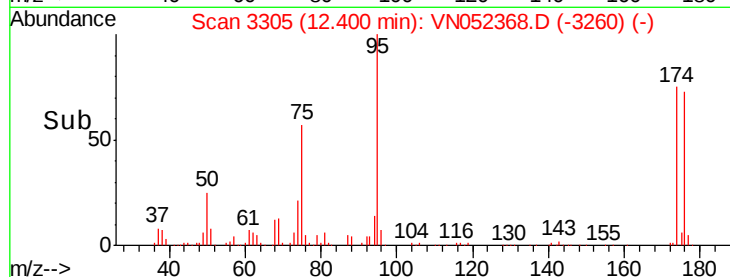
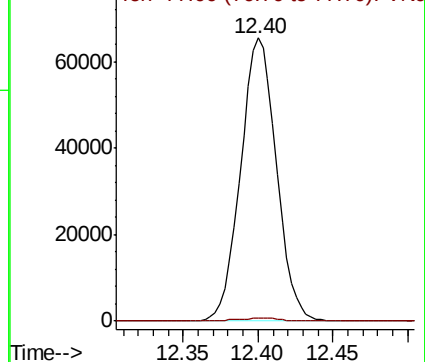
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN052307.D (-3348) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.384 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052368.D

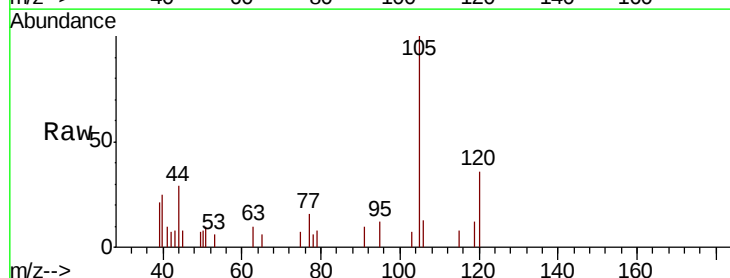
Acq: 16 Nov 2018 16:47

Tgt Ion: 105 Resp: 3762

Ion Ratio Lower Upper

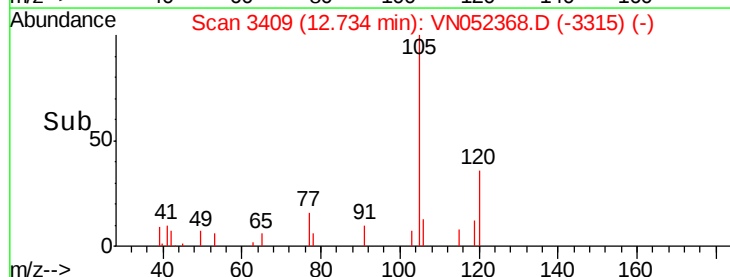
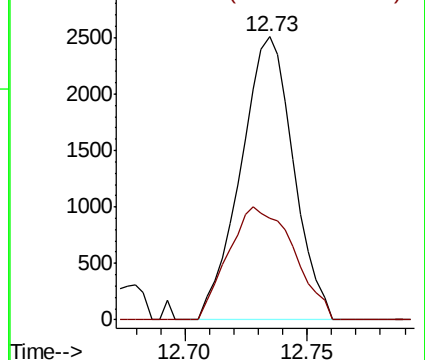
105 100

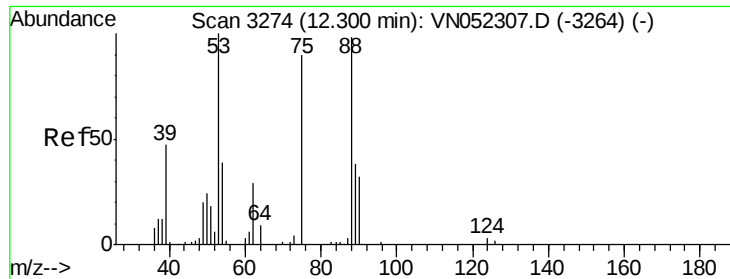
120 49.7 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VN052307.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN052307.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 135.557 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

Instrument :

MSVOA_N

ClientSampled :

VW-F1

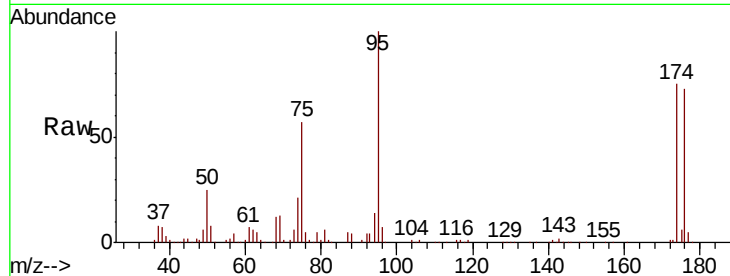
Tot Ion: 75 Resp: 108804

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

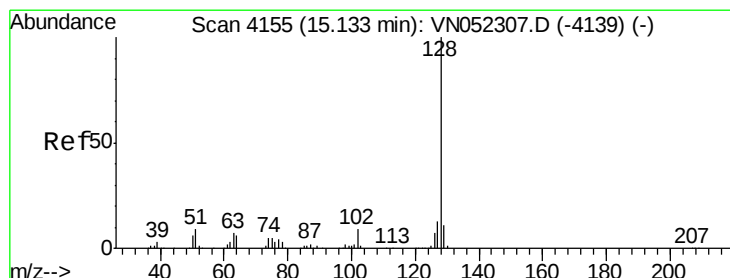
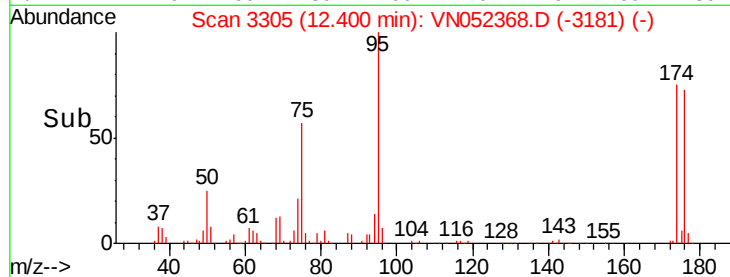
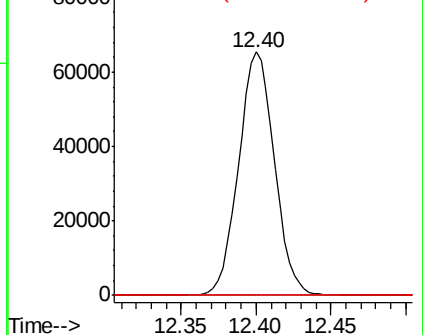
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052307.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052307.D (-3264) (-)



#95

Naphthalene

Concen: 2.856 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052368.D

Acq: 16 Nov 2018 16:47

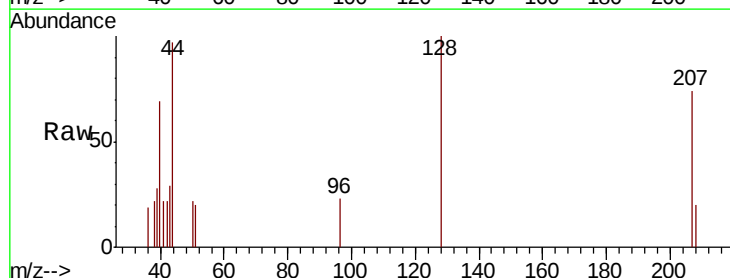
Tgt Ion:128 Resp: 1439

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN052307.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052307.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052307.D (-4139) (-)

