

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052290.D
 Acq On : 13 Nov 2018 16:50
 Operator : MD\SY
 Sample : PB114744ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 14 00:09:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	320934	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	542831	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	448091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145176	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	215318	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
35) Dibromofluoromethane	7.59	113	171324	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	
50) Toluene-d8	10.09	98	662408	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
62) 4-Bromofluorobenzene	12.40	95	186990	42.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.04%	

Target Compounds

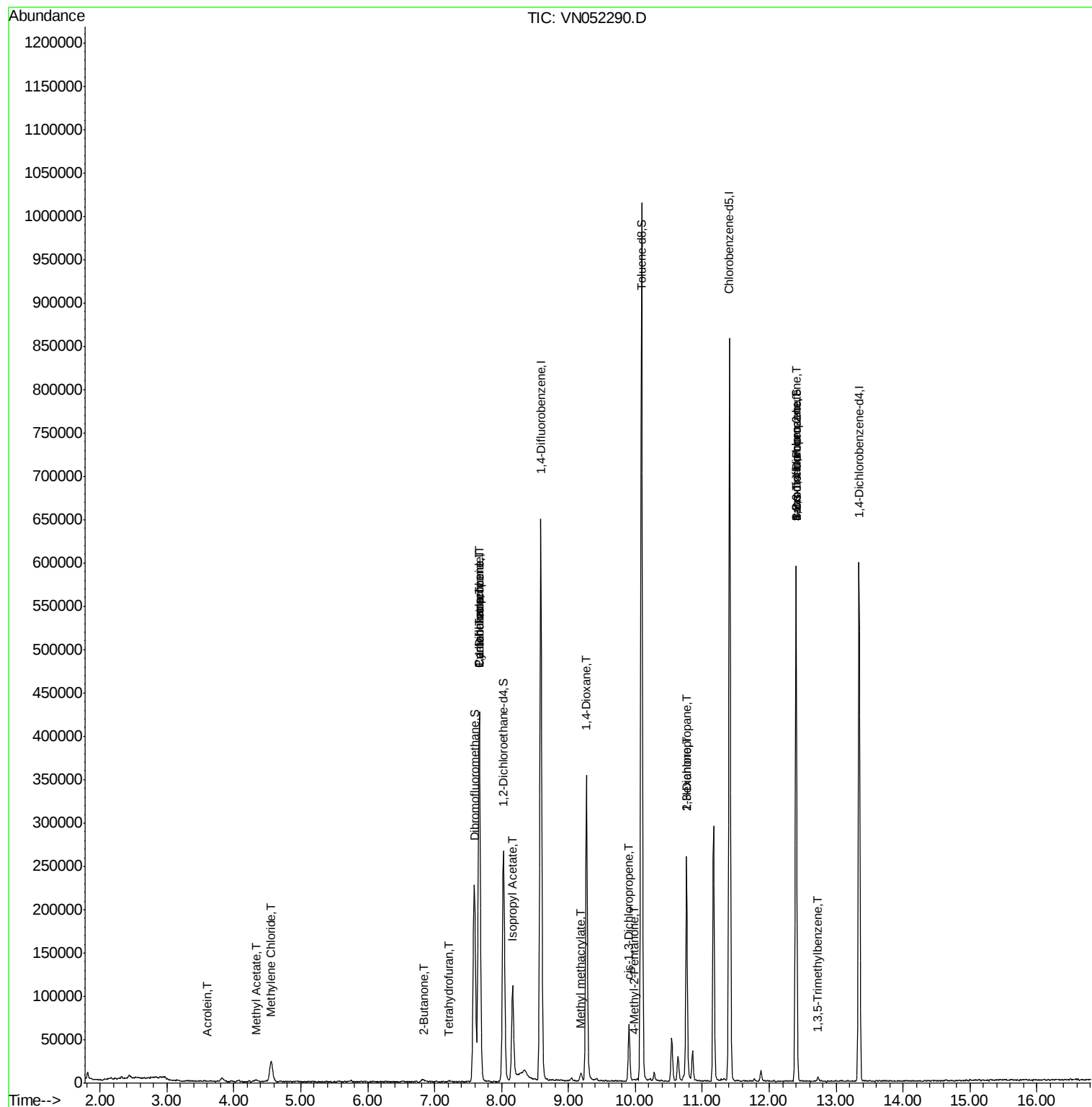
					Qvalue	
13) Acrolein	3.60	56	69	34.270	ug/l #	12
16) Acetone	3.82	43	6912	Below Cal		97
18) Methyl Acetate	4.33	43	3042	0.829	ug/l	95
20) Methylene Chloride	4.56	84	15982	3.994	ug/l	97
25) 2-Butanone	6.82	43	411	0.220	ug/l #	52
29) Tetrahydrofuran	7.21	42	483	0.396	ug/l #	66
31) Cyclohexane	7.67	56	9126	0.664	ug/l #	15
36) 1,1-Dichloropropene	7.67	75	27374	4.996	ug/l #	52
38) Carbon Tetrachloride	7.67	117	33258	6.698	ug/l #	17
43) Isopropyl Acetate	8.17	43	138753	19.317	ug/l	97
48) Methyl methacrylate	9.18	41	4503	1.190	ug/l #	15
49) 1,4-Dioxane	9.27	88	30	0.986	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	1501	0.378	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	9691	1.595	ug/l #	78
57) 1,3-Dichloropropane	10.77	76	2387	0.390	ug/l #	43
59) 2-Hexanone	10.76	43	40526	14.553	ug/l #	55
71) Bromoform	12.39	173	720	0.375	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	103393	40.254	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2198	0.233	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	103393	137.403	ug/l #	8

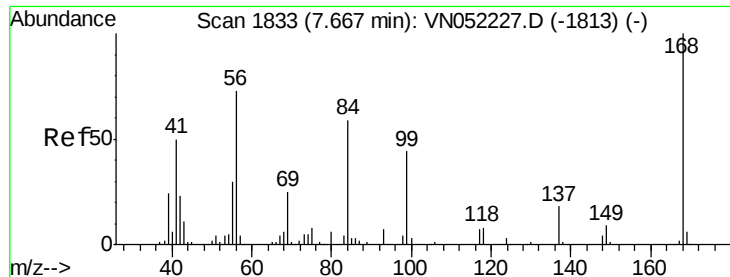
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 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: VN052290.D

Acq: 13 Nov 2018 16:50

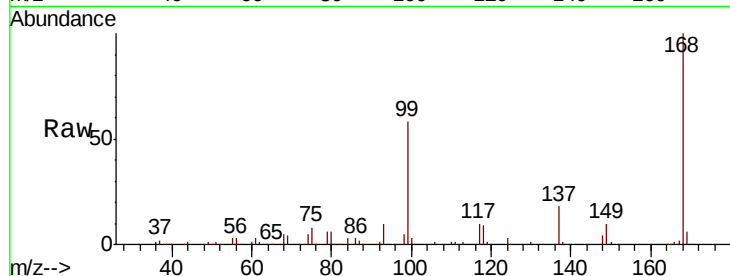
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 320934

Ion Ratio Lower Upper

168 100

99 58.0 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

150000

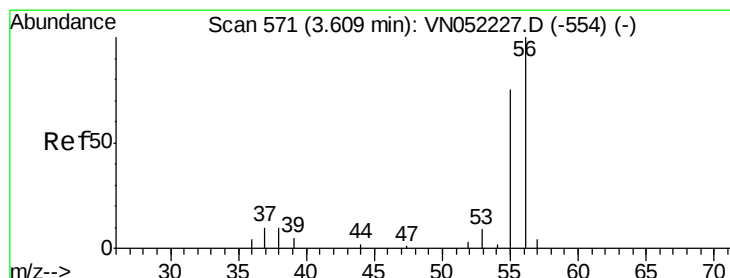
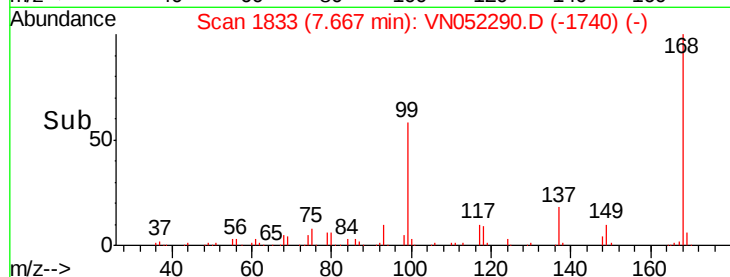
100000

50000

0

Time-->

7.60 7.70



#13

Acrolein

Concen: 34.270 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052290.D

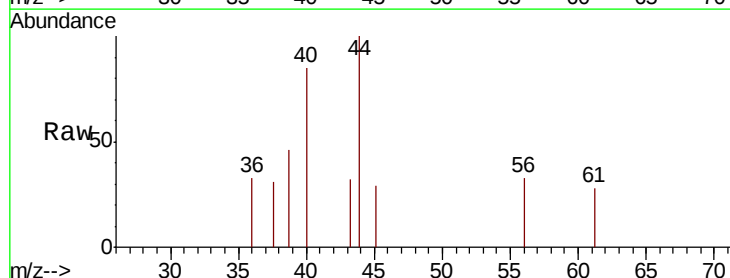
Acq: 13 Nov 2018 16:50

Tgt Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.60

200

150

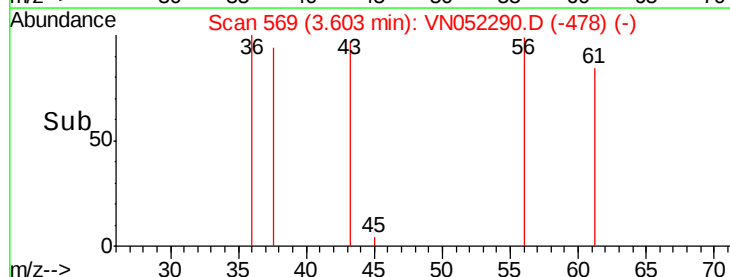
100

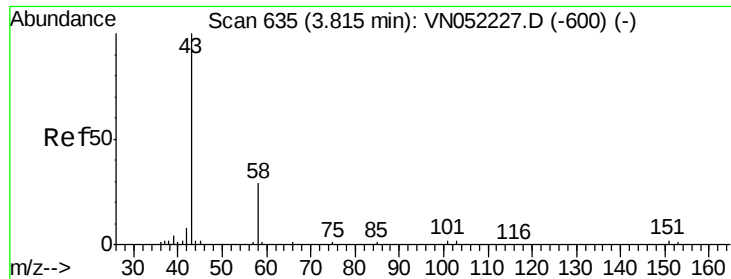
50

0

Time-->

3.59 3.60 3.61

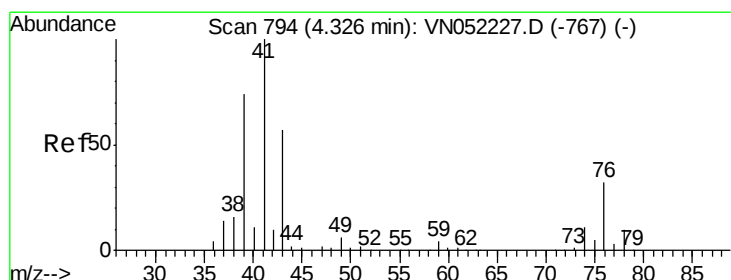
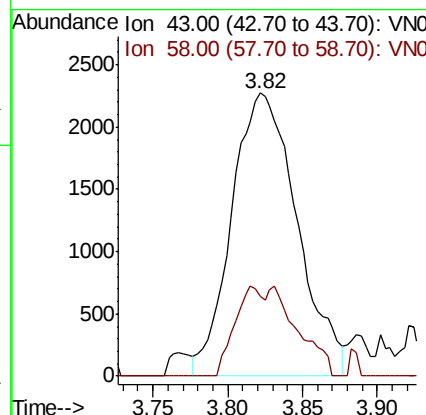
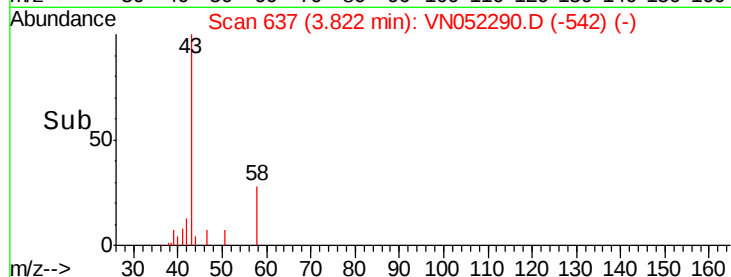
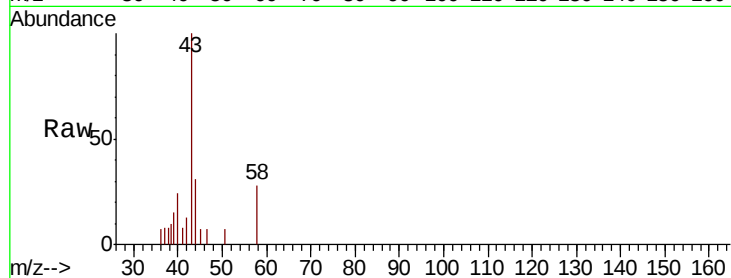




#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 637
Delta R.T. 0.01 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

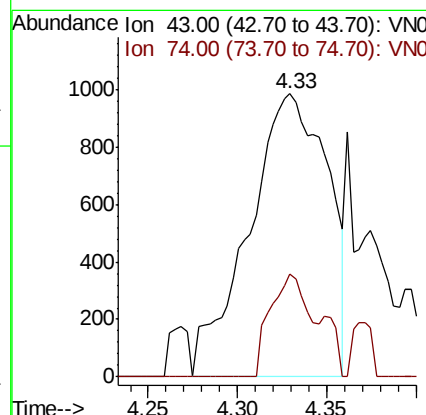
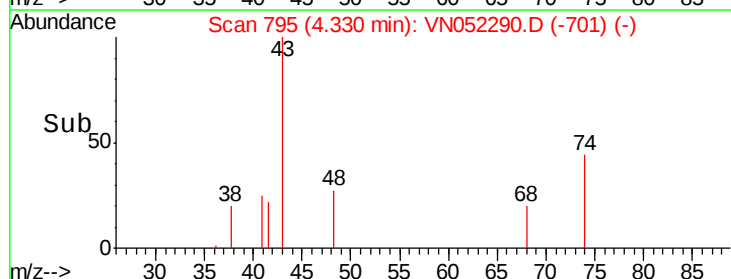
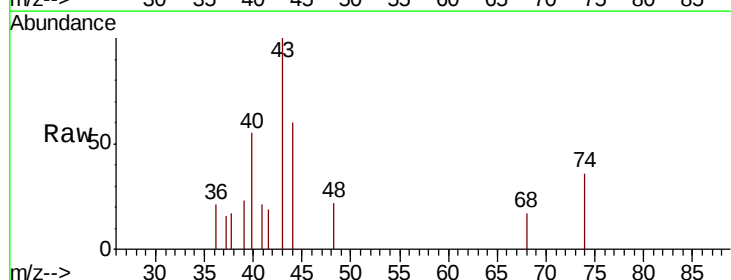
Instrument :
MSVOA_N
ClientSampled :

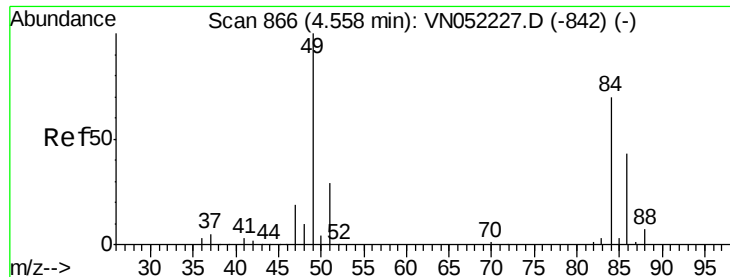
Tot Ion: 43 Resp: 6912
Ion Ratio Lower Upper
43 100
58 30.2 23.0 34.6



#18
Methyl Acetate
Concen: 0.829 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

Tgt Ion: 43 Resp: 3042
Ion Ratio Lower Upper
43 100
74 17.9 16.2 24.2





#20

Methvlene Chloride

Concen: 3.994 ug/l

RT: 4.56 min Scan# 868

Delta R.T. 0.01 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 15982

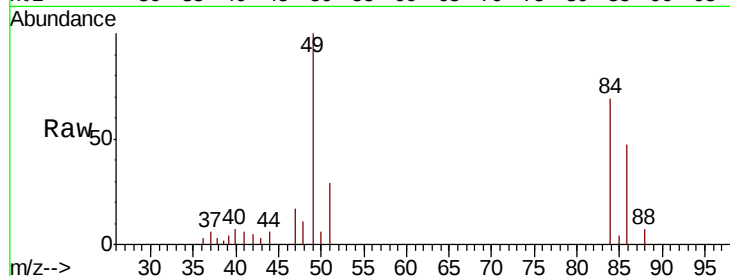
Ion Ratio Lower Upper

84 100

49 141.3 114.8 172.2

51 42.1 33.1 49.7

86 68.7 49.7 74.5

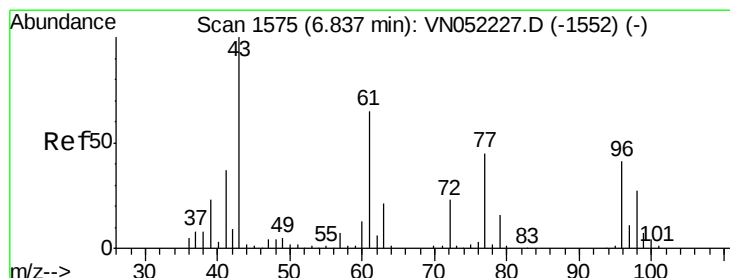
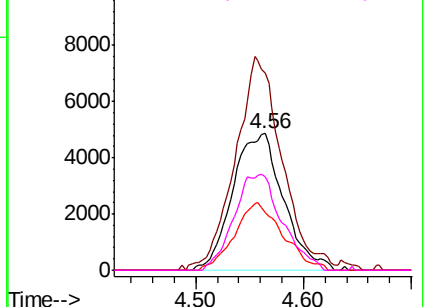
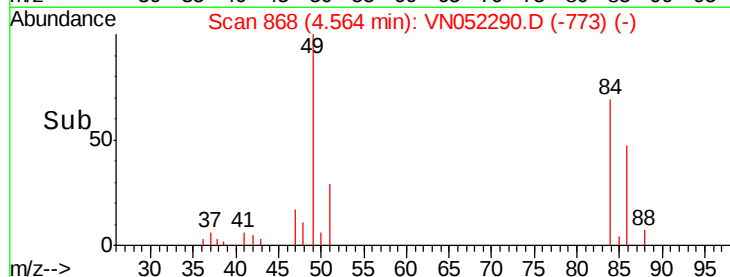


Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC



#25

2-Butanone

Concen: 0.220 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VN052290.D

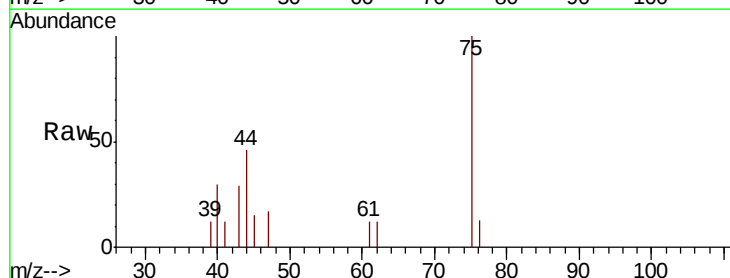
Acq: 13 Nov 2018 16:50

Tgt Ion: 43 Resp: 411

Ion Ratio Lower Upper

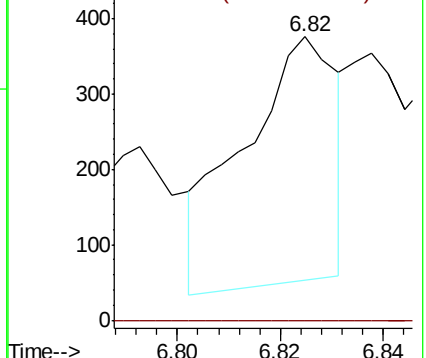
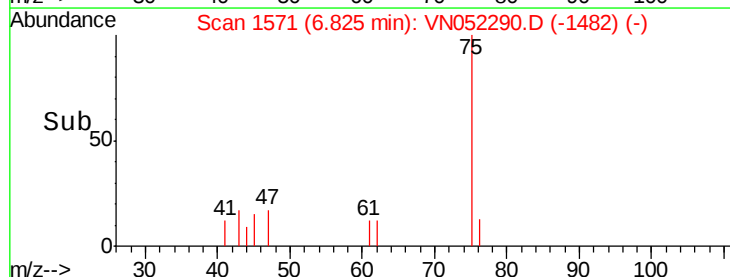
43 100

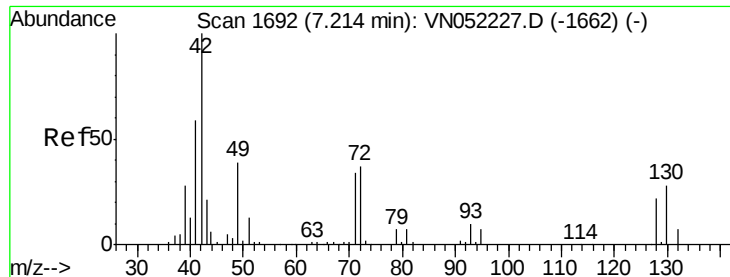
72 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.396 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

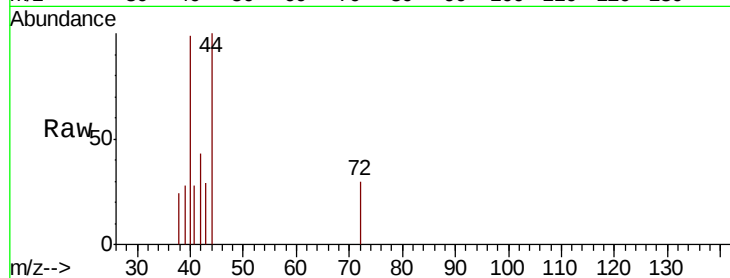
Tot Ion: 42 Resp: 483

Ion Ratio Lower Upper

42 100

72 48.0 28.6 43.0#

71 6.2 27.1 40.7#

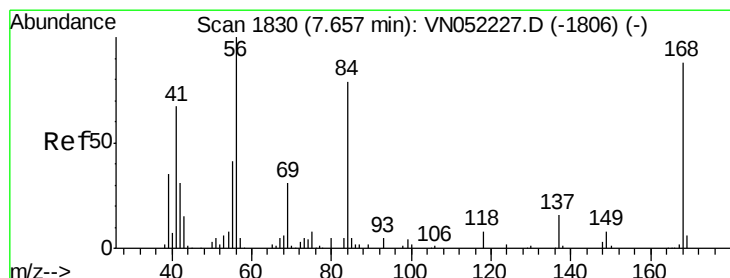
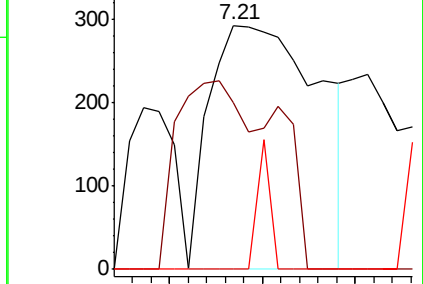
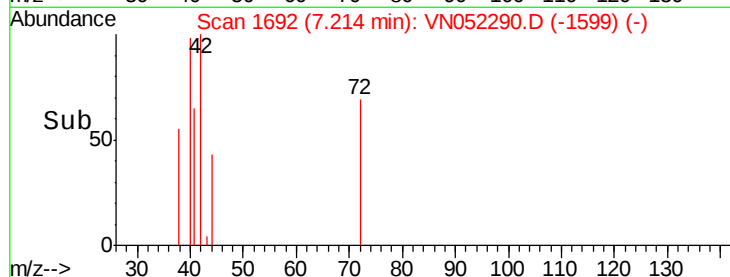


Abundance Ion 42.00 (41.70 to 42.70): VN052227.D (-1662) (-)

Ion 72.00 (71.70 to 72.70): VN052227.D (-1662) (-)

Ion 71.00 (70.70 to 71.70): VN052227.D (-1662) (-)

Time-->



#31

Cyclohexane

Concen: 0.664 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

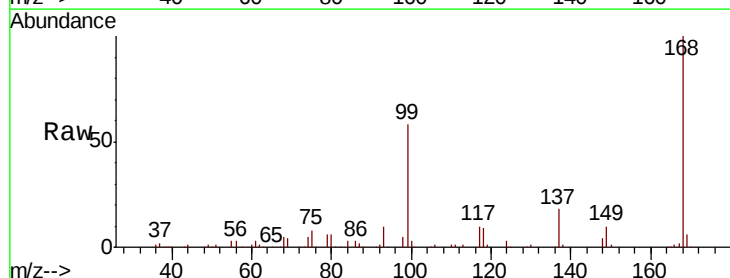
Tgt Ion: 56 Resp: 9126

Ion Ratio Lower Upper

56 100

69 138.8 24.8 37.2#

84 115.0 63.1 94.7#

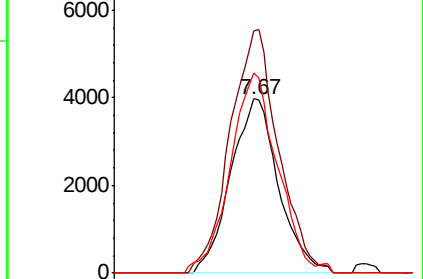
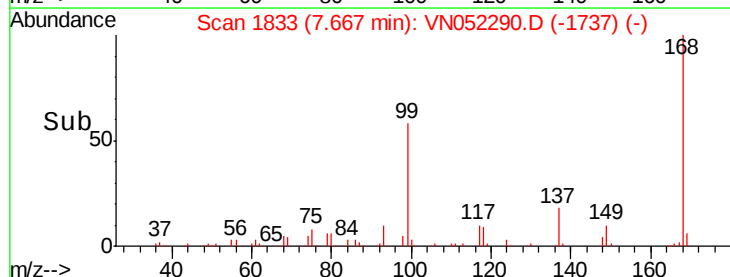


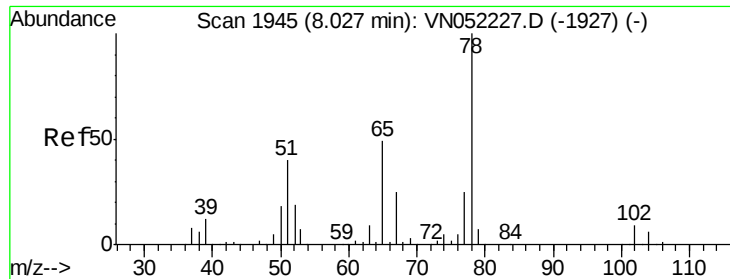
Abundance Ion 56.00 (55.70 to 56.70): VN052227.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN052227.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN052227.D (-1806) (-)

Time-->

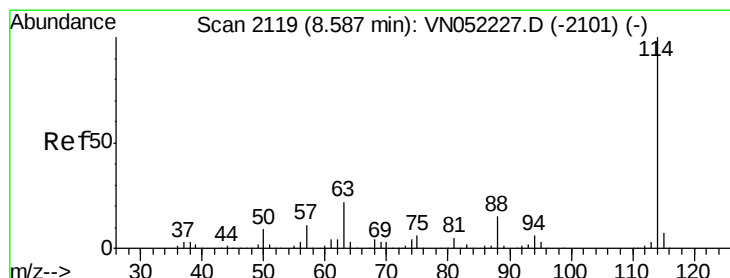
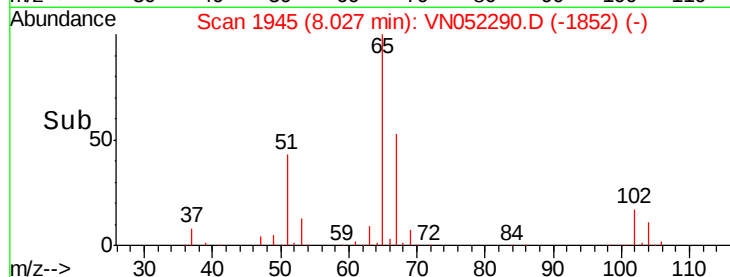
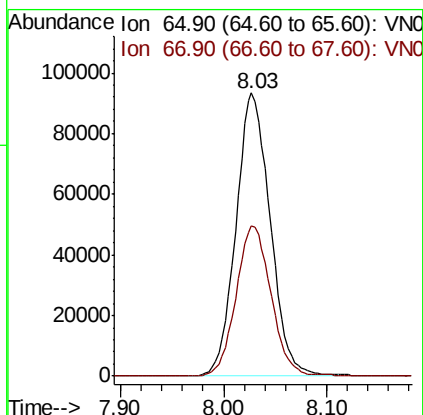
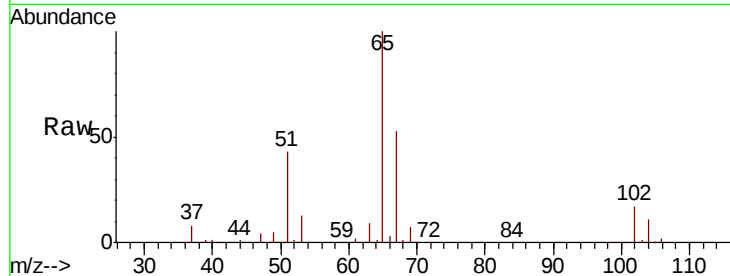




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052290.D
 Acq: 13 Nov 2018 16:50

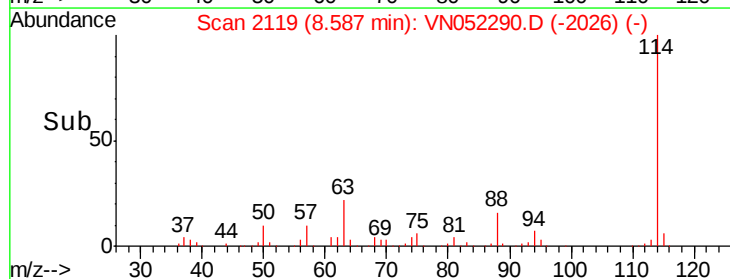
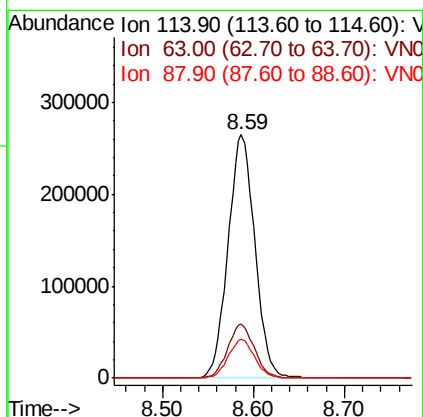
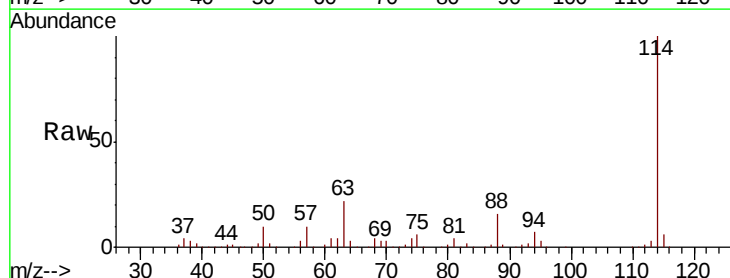
Instrument :
 MSVOA_N
 ClientSampleId :

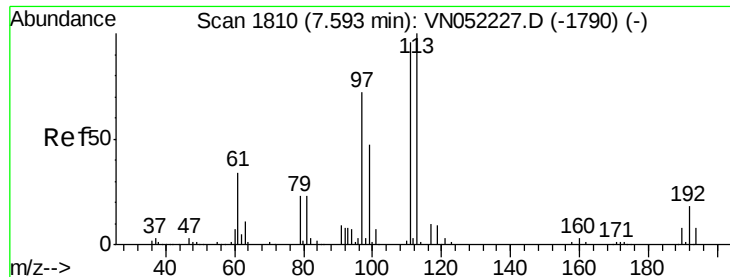
Tot Ion: 65 Resp: 215318
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052290.D
 Acq: 13 Nov 2018 16:50

Tgt Ion: 114 Resp: 542831
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.4
 88 15.8 0.0 30.2

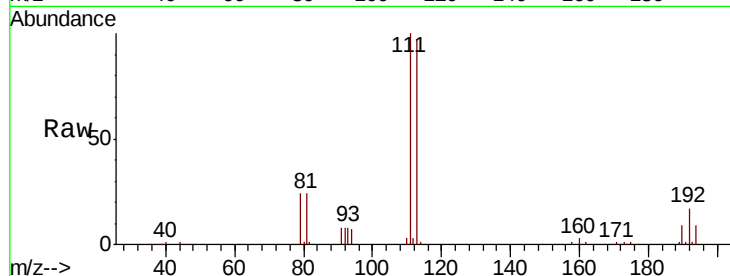




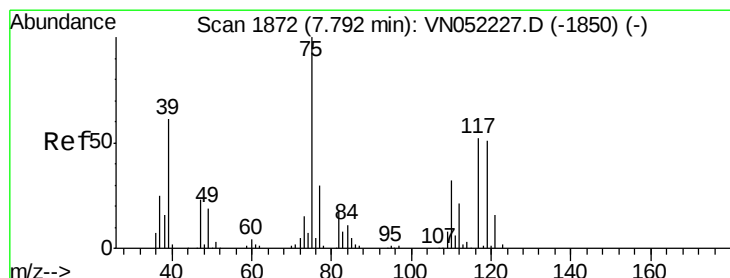
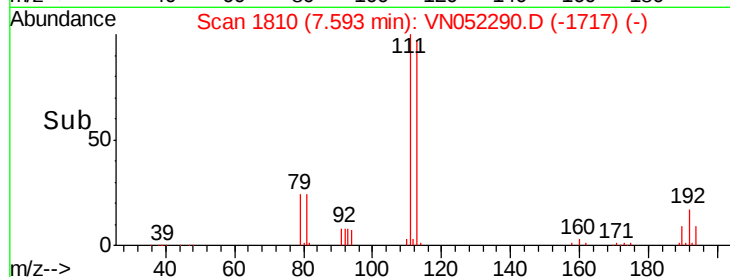
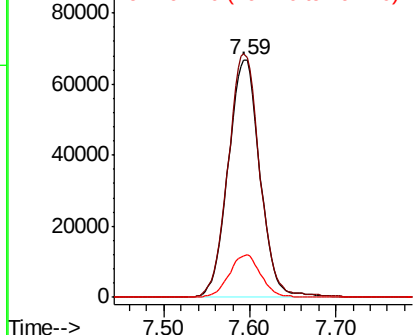
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052290.D
 Acq: 13 Nov 2018 16:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 171324
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.2 120.4
 192 17.7 14.1 21.1

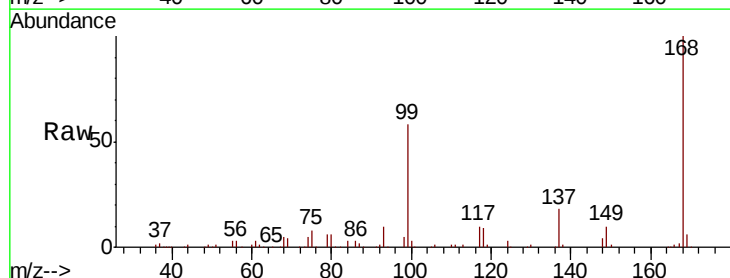


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

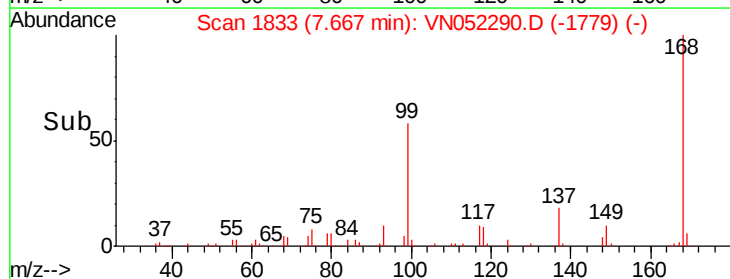
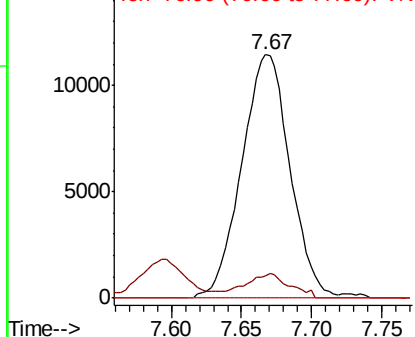


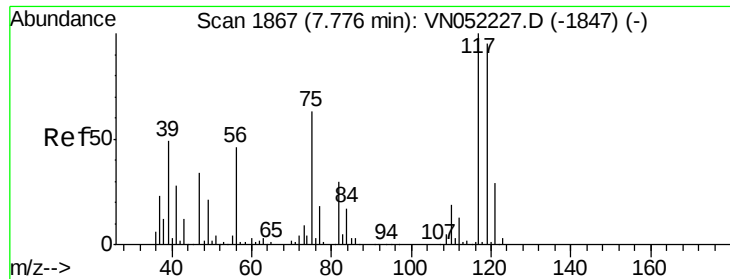
#36
 1,1-Dichloropropene
 Concen: 4.996 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052290.D
 Acq: 13 Nov 2018 16:50

Tgt Ion: 75 Resp: 27374
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.4 49.4#
 77 0.0 23.9 35.9#



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: 6.698 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

Instrument :

MSVOA_N

ClientSampleId :

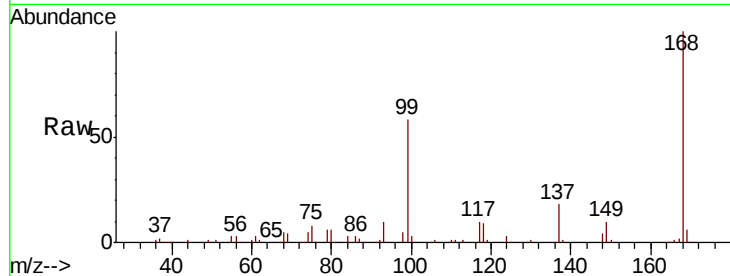
Tot Ion:117 Resp: 33258

Ion Ratio Lower Upper

117 100

119 5.9 75.8 113.8#

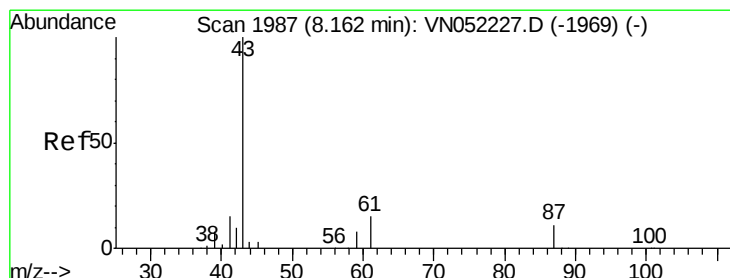
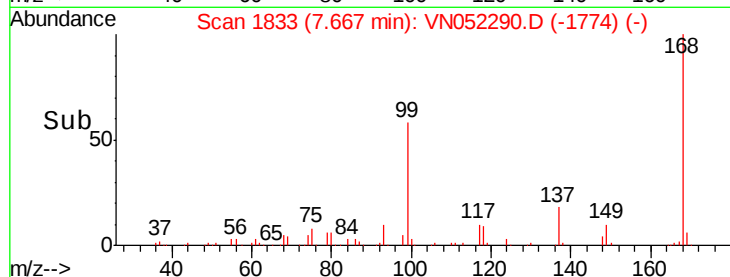
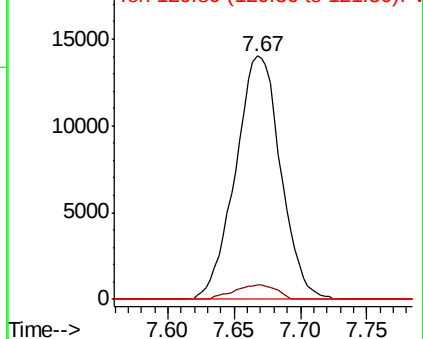
121 0.0 23.4 35.2#



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



#43

Isopropyl Acetate

Concen: 19.317 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

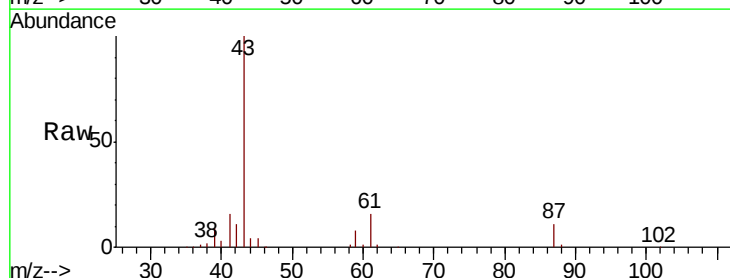
Tgt Ion: 43 Resp: 138753

Ion Ratio Lower Upper

43 100

61 15.7 14.2 21.4

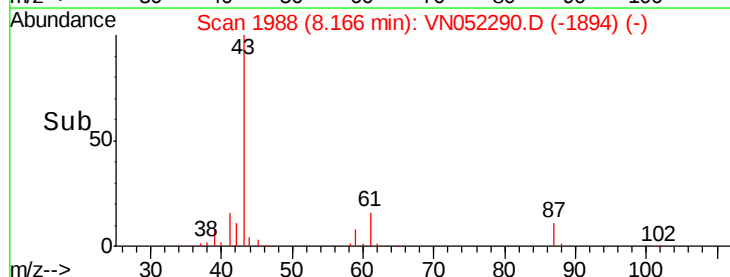
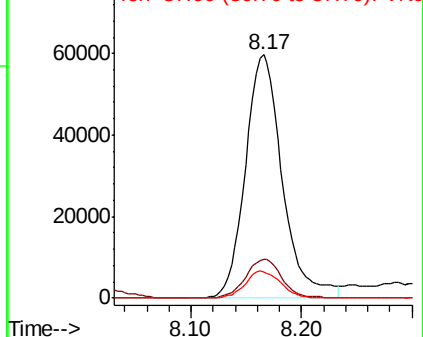
87 10.4 8.4 12.6

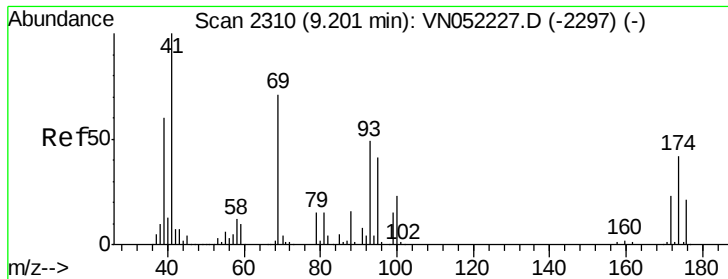


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

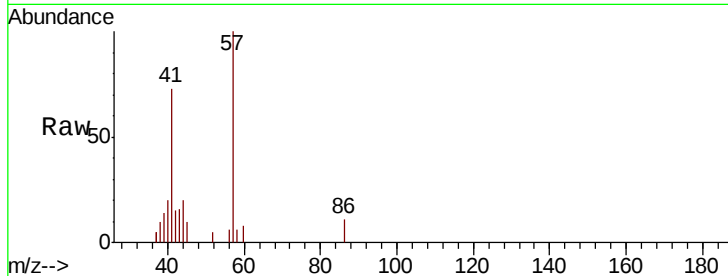




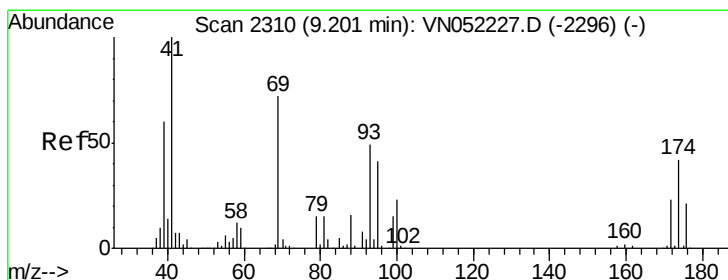
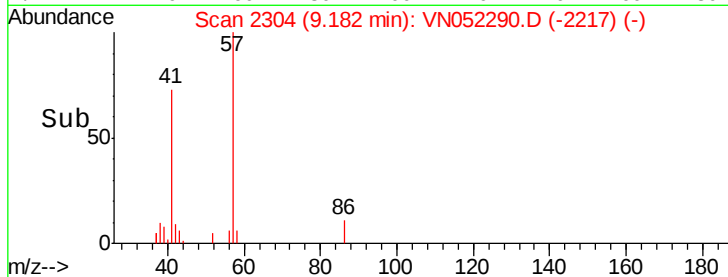
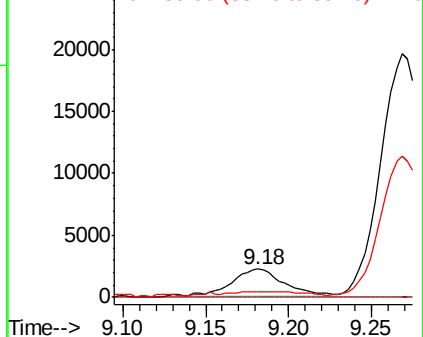
#48
Methvl methacrylate
Concen: 1.190 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 4503
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#

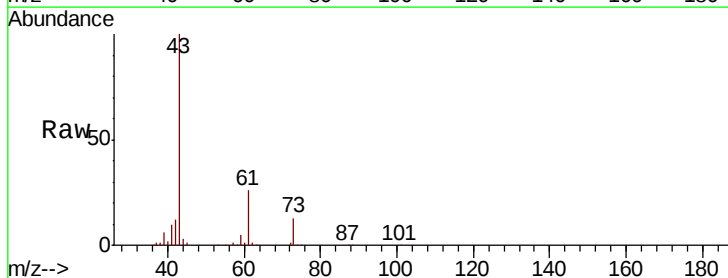


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

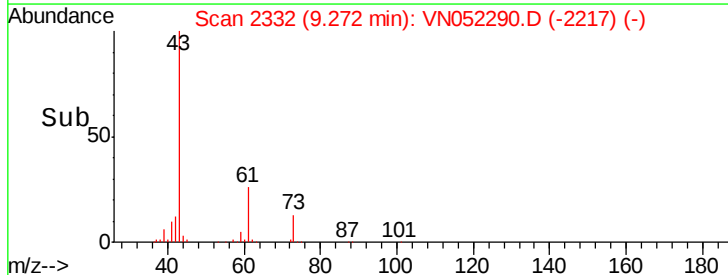
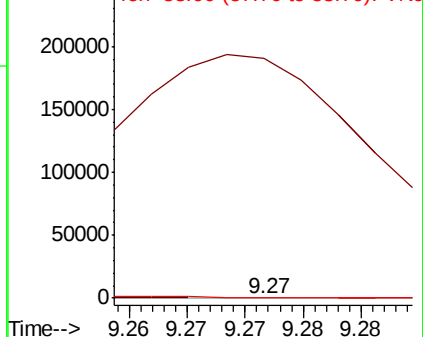


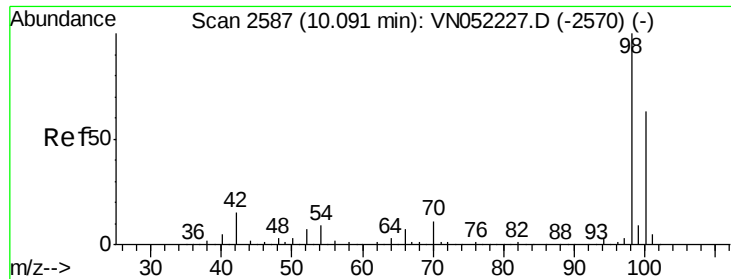
#49
1,4-Dioxane
Concen: 0.986 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 1206186.7 32.5 48.7#
58 7010.0 58.2 87.4#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 0.986 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

Instrument :

MSVOA_N

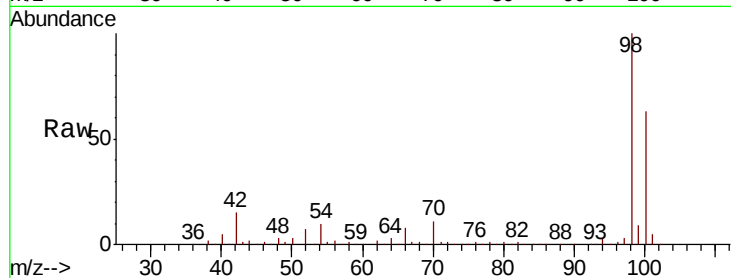
ClientSampled :

Tot Ion: 98 Resp: 662408

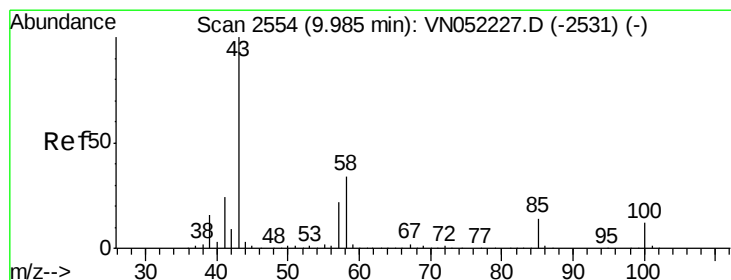
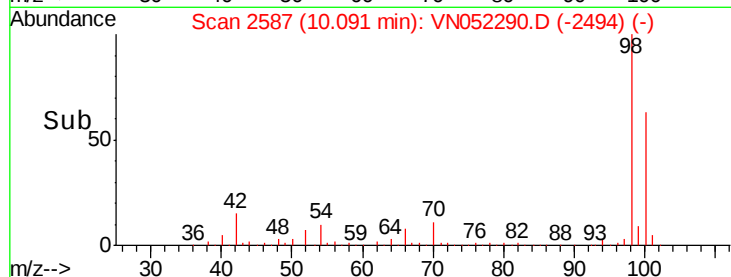
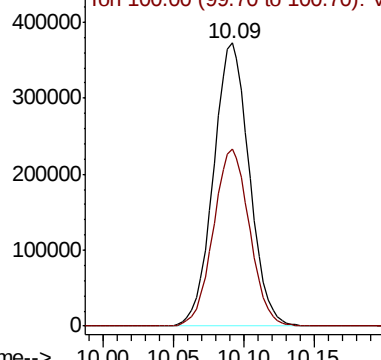
Ion Ratio Lower Upper

98 100

100 63.4 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN052227.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.378 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN052290.D

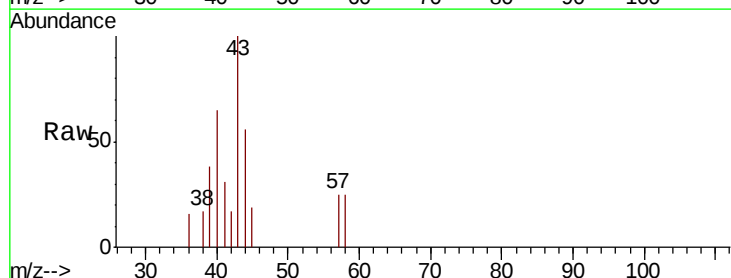
Acq: 13 Nov 2018 16:50

Tgt Ion: 43 Resp: 1501

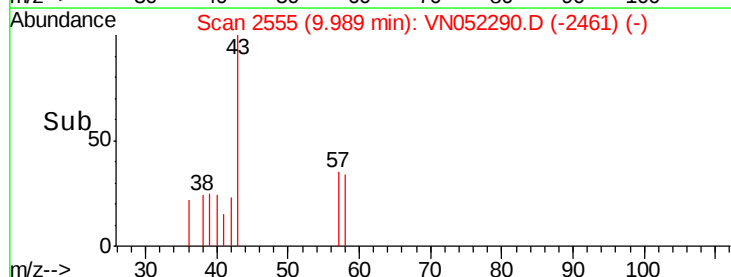
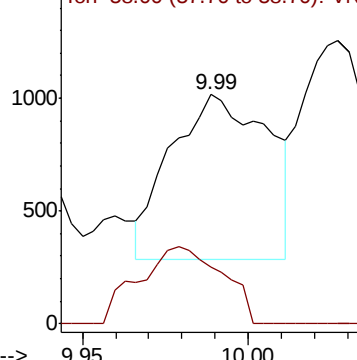
Ion Ratio Lower Upper

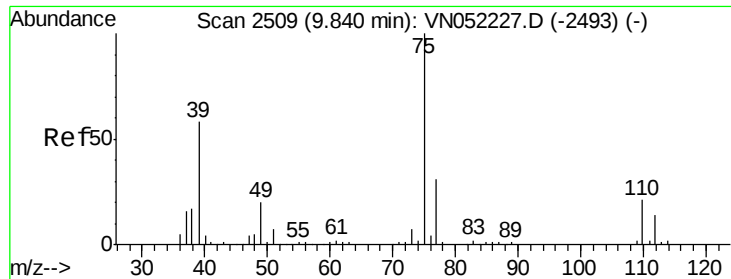
43 100

58 39.8 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-2531) (-)





#54

cis-1,3-Dichloropropene

Concen: 1.595 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

Instrument :
MSVOA_N
ClientSampled :

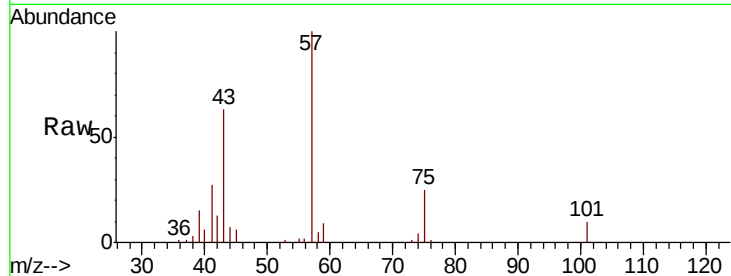
Tot Ion: 75 Resp: 9691

Ion Ratio Lower Upper

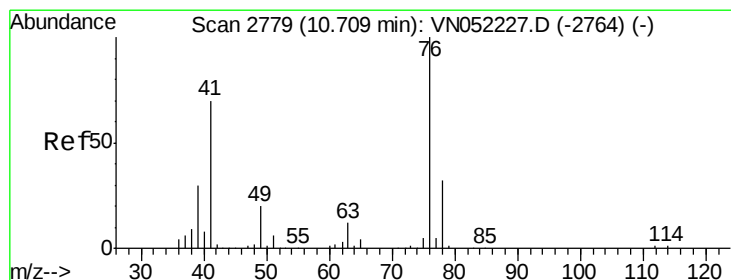
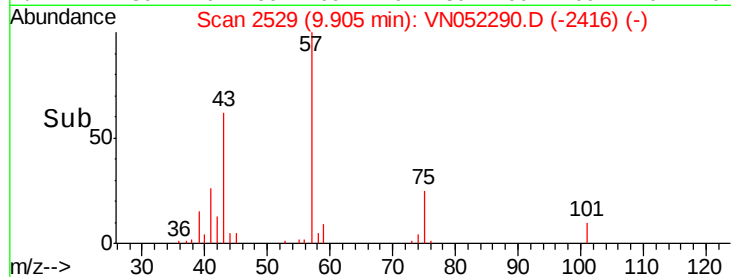
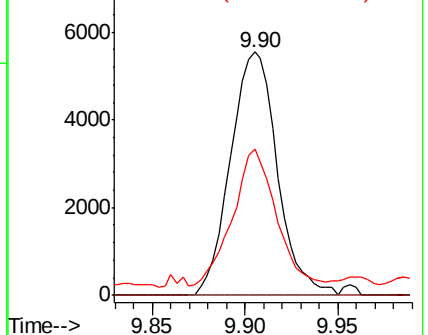
75 100

77 0.0 25.2 37.8#

39 56.1 46.6 70.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.390 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052290.D

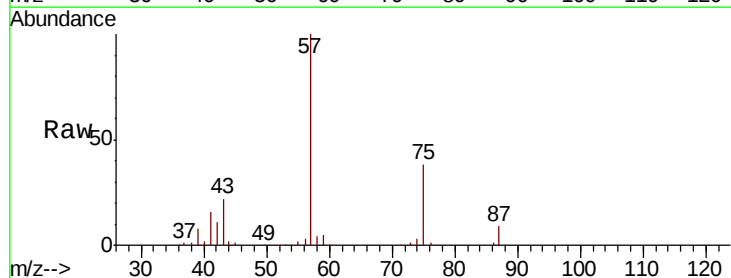
Acq: 13 Nov 2018 16:50

Tgt Ion: 76 Resp: 2387

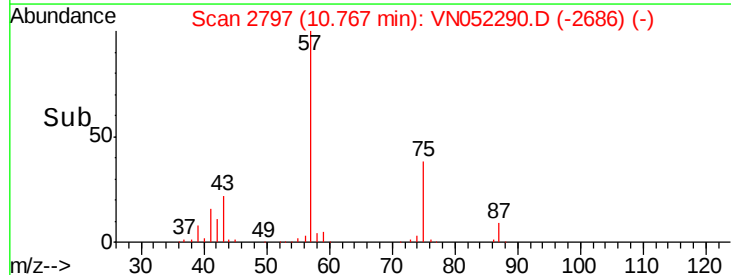
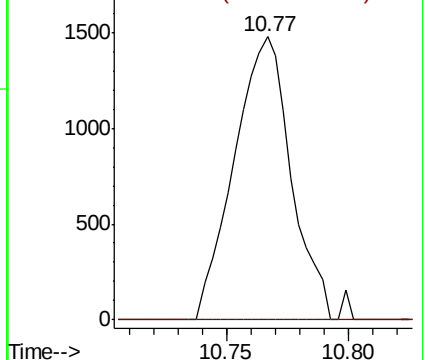
Ion Ratio Lower Upper

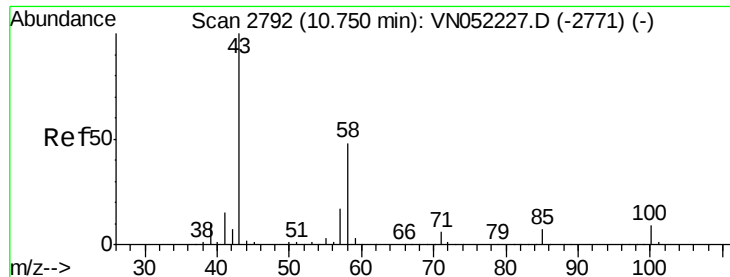
76 100

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

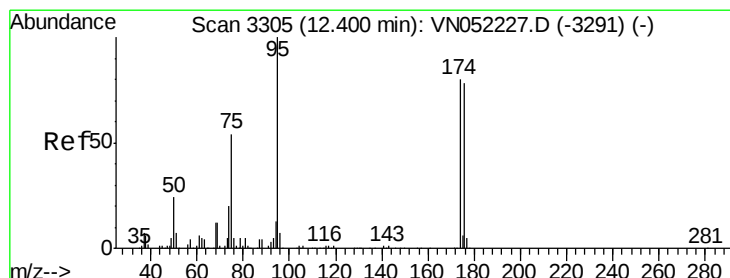
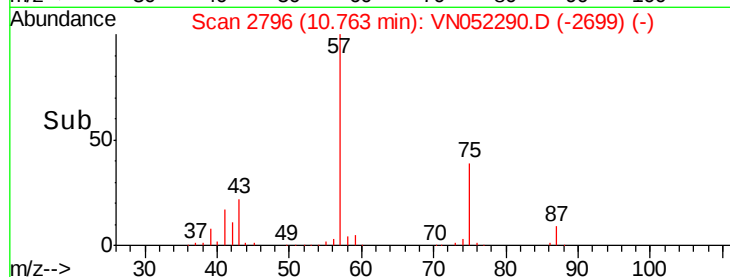
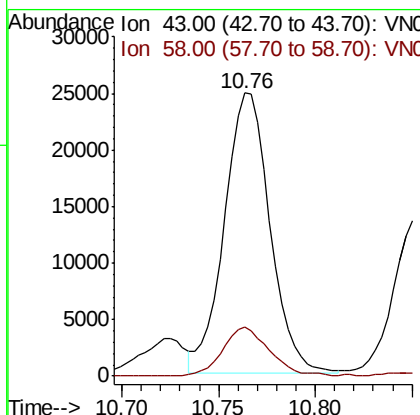
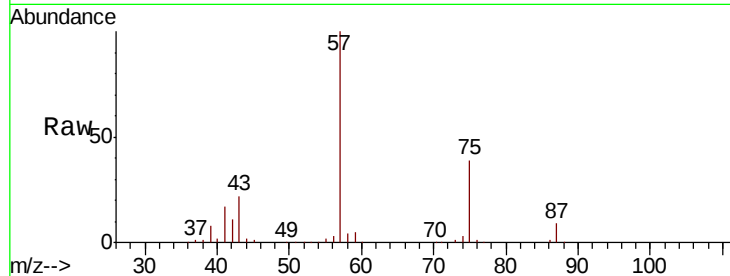




#59
2-Hexanone
Concen: 14.553 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

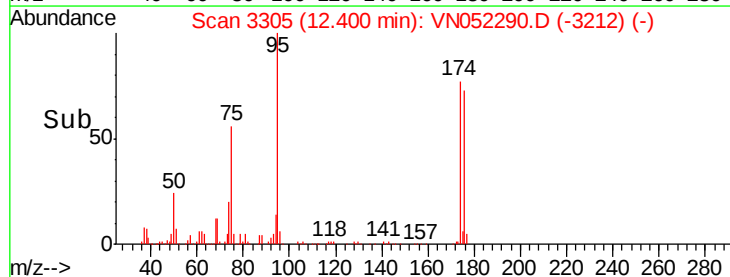
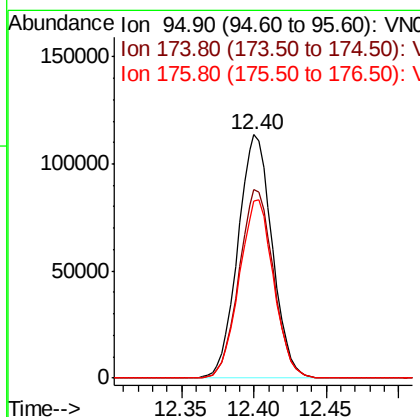
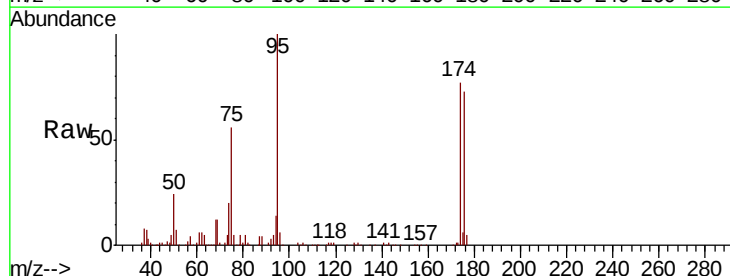
Instrument :
MSVOA_N
ClientSampleId :

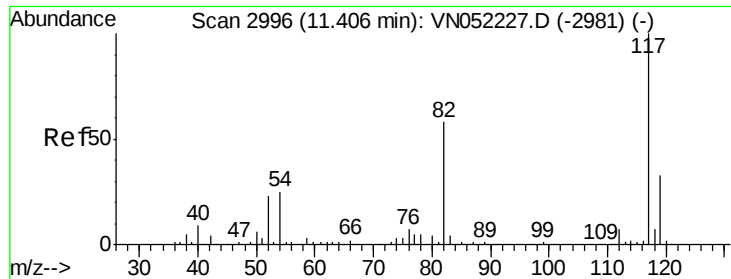
Tot Ion: 43 Resp: 40526
Ion Ratio Lower Upper
43 100
58 18.0 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

Tgt Ion: 95 Resp: 186990
Ion Ratio Lower Upper
95 100
174 77.6 0.0 159.4
176 73.6 0.0 157.8

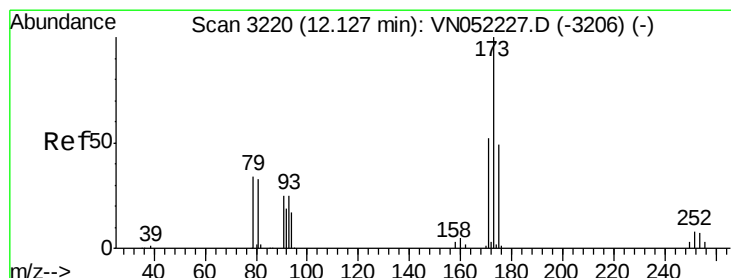
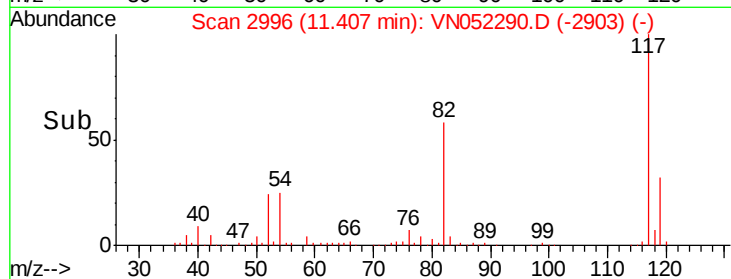
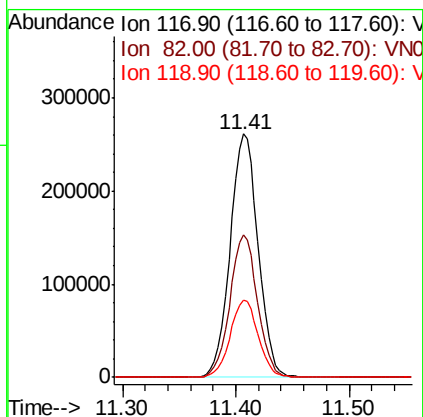
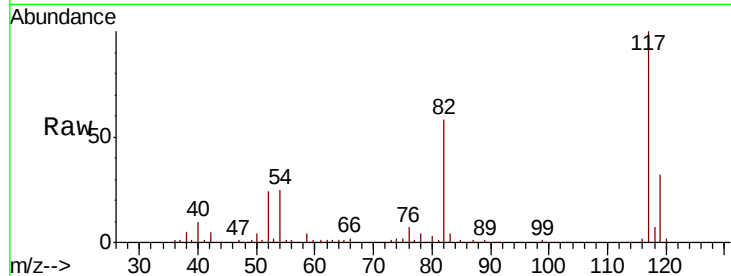




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

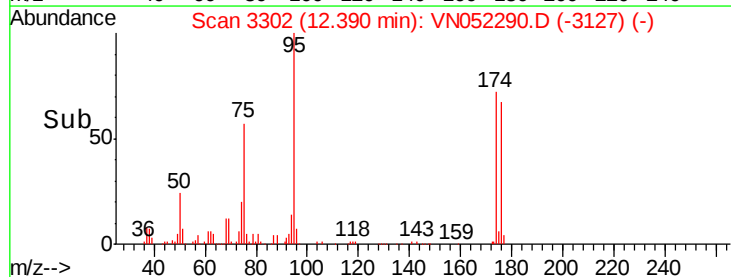
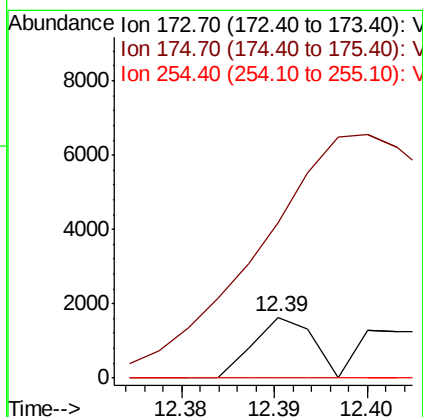
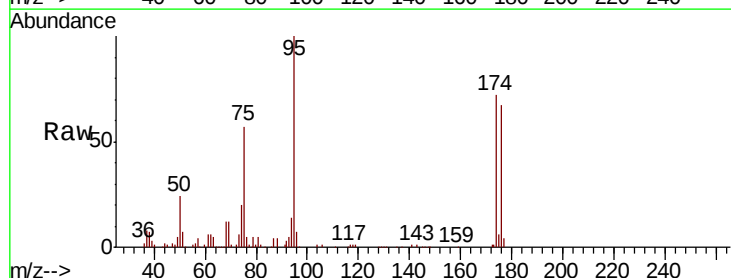
Instrument :
MSVOA_N
ClientSampled :

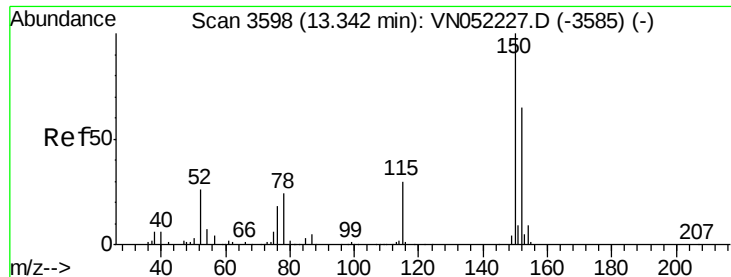
Tot Ion:117 Resp: 448091
Ion Ratio Lower Upper
117 100
82 58.4 46.2 69.2
119 31.9 26.2 39.4



#71
Bromoform
Concen: 0.375 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

Tgt Ion:173 Resp: 720
Ion Ratio Lower Upper
173 100
175 0.0 24.5 73.5#
254 0.0 0.0 0.0



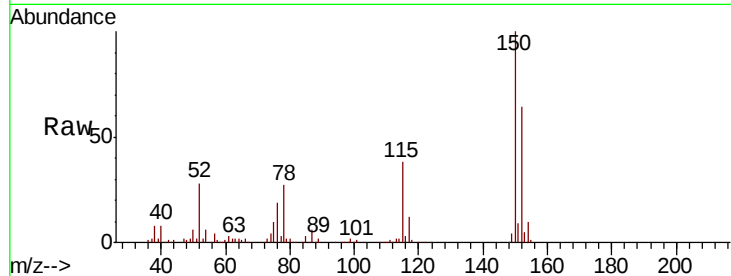


#72

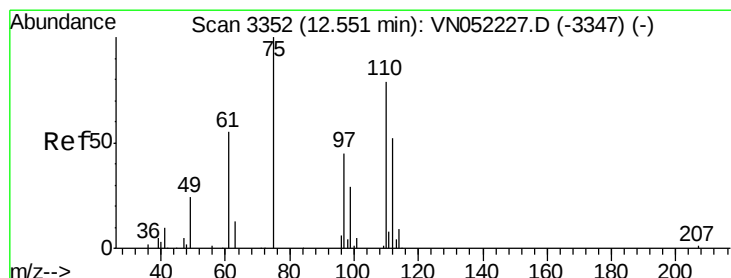
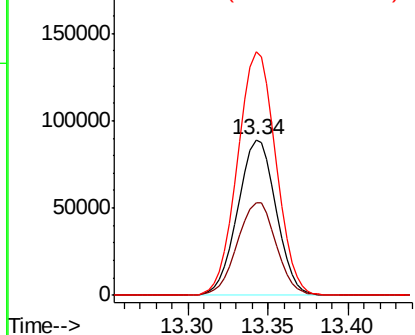
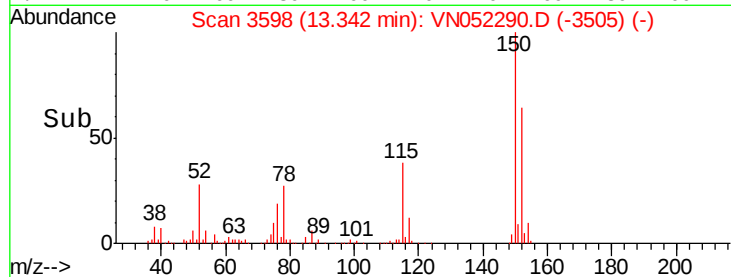
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.5	29.8	89.5
150	157.0	0.0	350.2



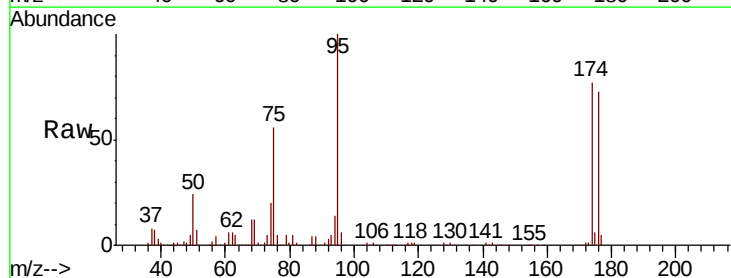
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



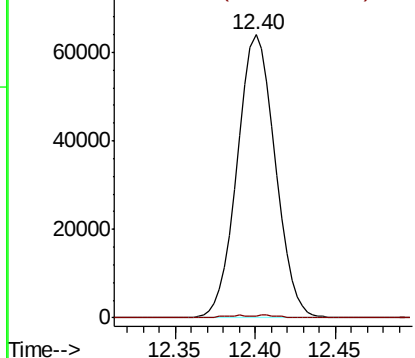
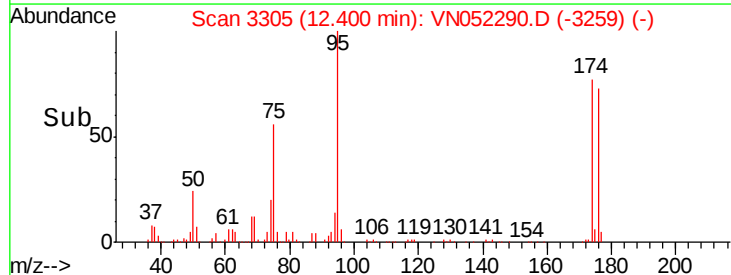
#76

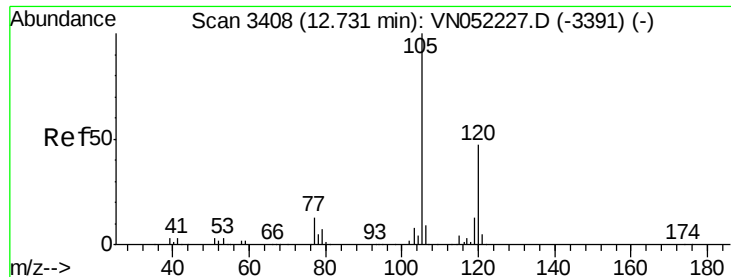
1,2,3-Trichloropropane
Concen: 40.254 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN052290.D
Acq: 13 Nov 2018 16:50

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.7	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.233 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

Instrument :

MSVOA_N

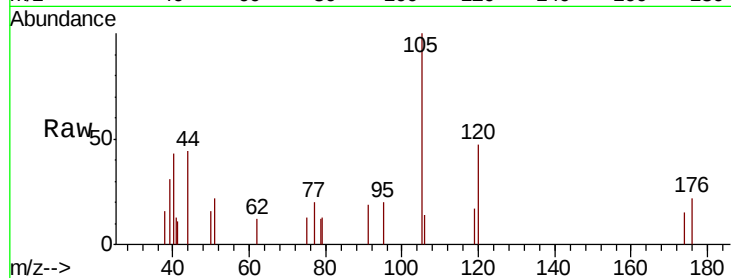
ClientSampleId :

Tot Ion:105 Resp: 2198

Ion Ratio Lower Upper

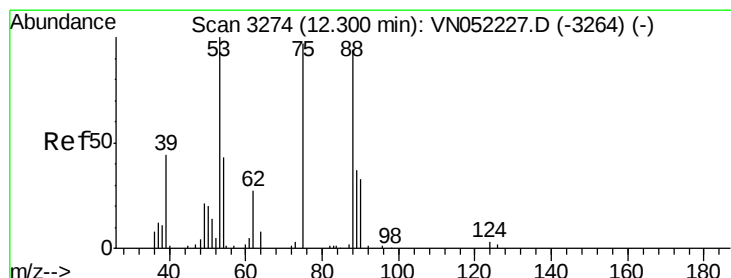
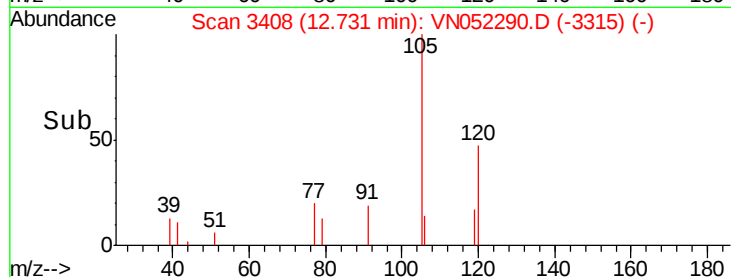
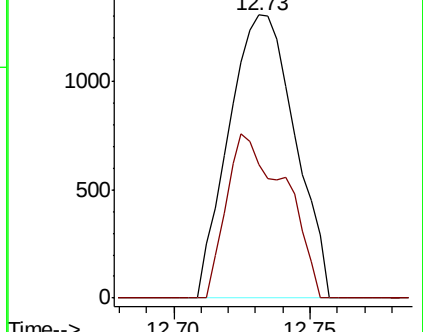
105 100

120 52.0 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 137.403 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052290.D

Acq: 13 Nov 2018 16:50

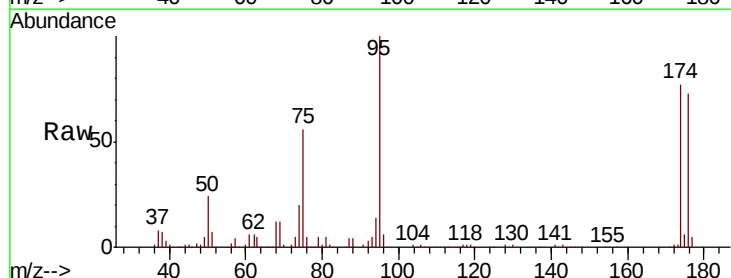
Tgt Ion: 75 Resp: 103393

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 33.7 50.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

