

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN012220\
 Data File : VN059830.D
 Acq On : 22 Jan 2020 14:28
 Operator : JC/MD
 Sample : L1218-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-8

Quant Time: Jan 22 17:33:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	211859	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	316586	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	279461	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	114718	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	110582	47.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.00%	
35) Dibromofluoromethane	7.57	113	97108	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
50) Toluene-d8	10.08	98	374311	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.40	95	123617	46.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.76%	

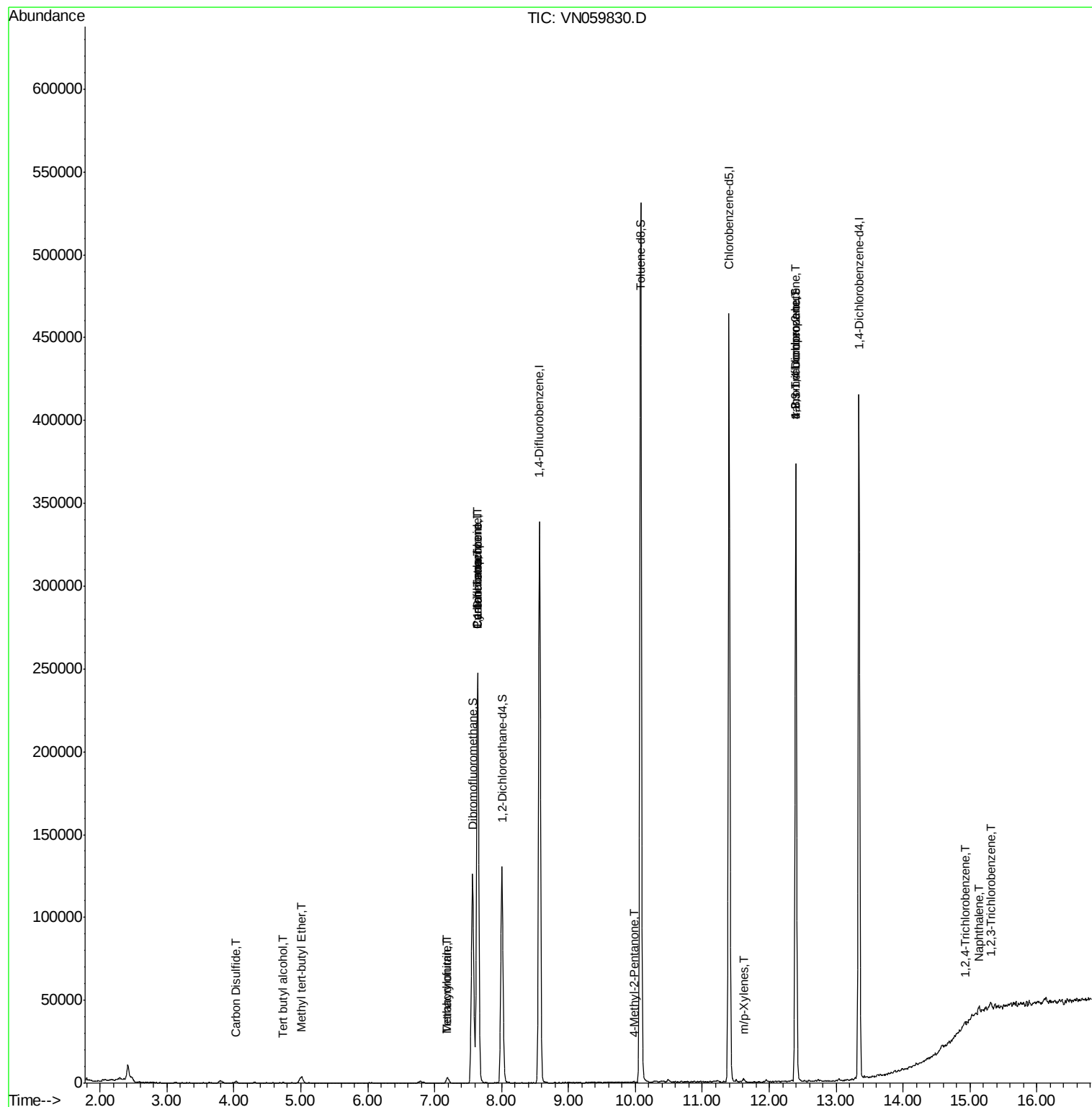
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	96	0.24	ug/l	# 72
16) Acetone	3.80	43	1503	Below	Cal	# 87
17) Carbon Disulfide	4.03	76	1337	0.24	ug/l	# 75
19) Methyl tert-butyl Ether	5.01	73	7207	1.14	ug/l	# 96
29) Tetrahydrofuran	7.19	42	2495	3.03	ug/l	# 72
31) Cyclohexane	7.64	56	4192	1.20	ug/l	# 1
36) 1,1-Dichloropropene	7.64	75	14564	5.28	ug/l	# 50
38) Carbon Tetrachloride	7.64	117	19787	6.60	ug/l	# 15
41) Methacrylonitrile	7.19	41	1555	1.22	ug/l	# 100
51) 4-Methyl-2-Pentanone	9.98	43	597	0.23	ug/l	# 38
68) m/p-Xylenes	11.62	106	806	0.21	ug/l	# 90
76) 1,2,3-Trichloropropane	12.40	75	63256	32.77	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	63256	70.36	ug/l	# 11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	318	Below	Cal	# 6
93) 1,2,4-Trichlorobenzene	14.91	180	986	0.45	ug/l	# 90
95) Naphthalene	15.13	128	4243	0.68	ug/l	# 94
96) 1,2,3-Trichlorobenzene	15.31	180	1321	0.62	ug/l	# 94

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059830.D

Acq: 22 Jan 2020 14:28

Instrument :

MSVOA_N

ClientSampleId :

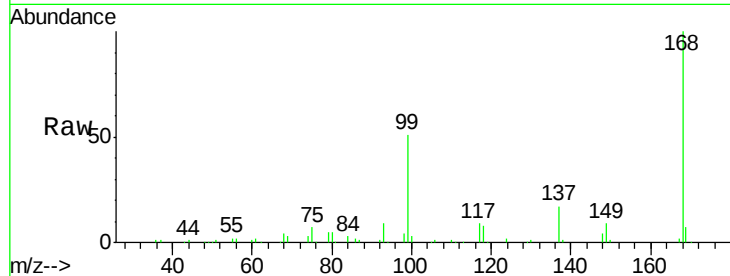
MW-8

Tgt Ion:168 Resp: 211859

Ion Ratio Lower Upper

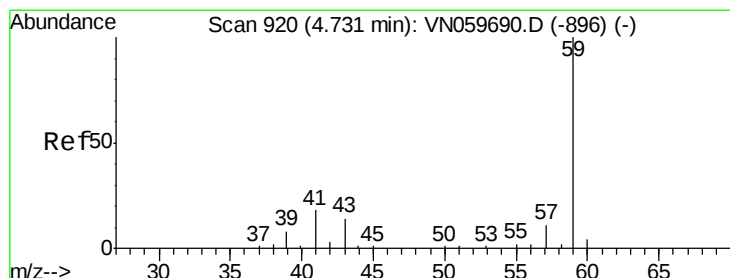
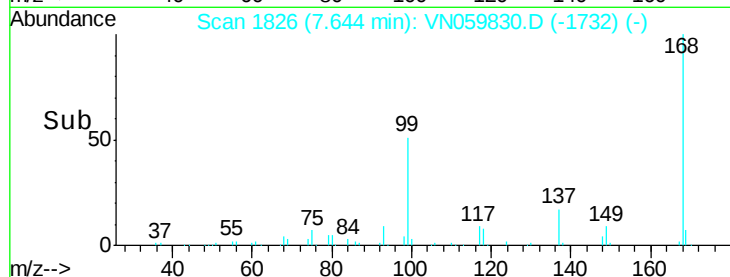
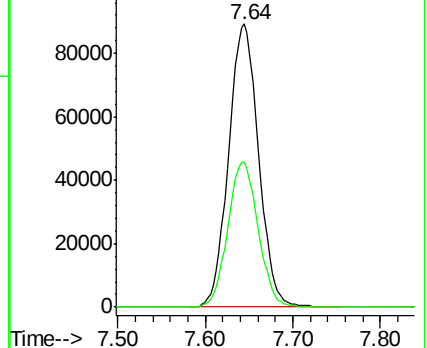
168 100

99 51.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.24 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN059830.D

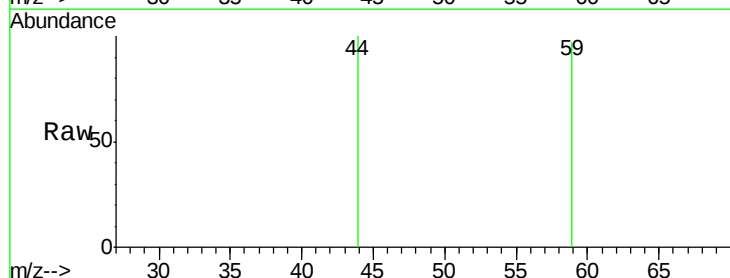
Acq: 22 Jan 2020 14:28

Tgt Ion: 59 Resp: 96

Ion Ratio Lower Upper

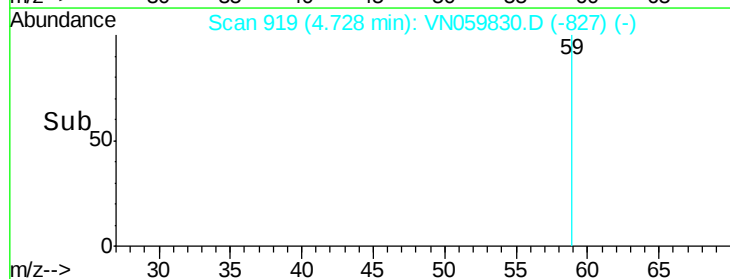
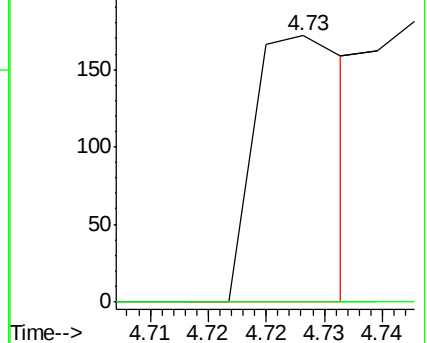
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059830.D

Acq: 22 Jan 2020 14:28

Instrument :

MSVOA_N

ClientSampled :

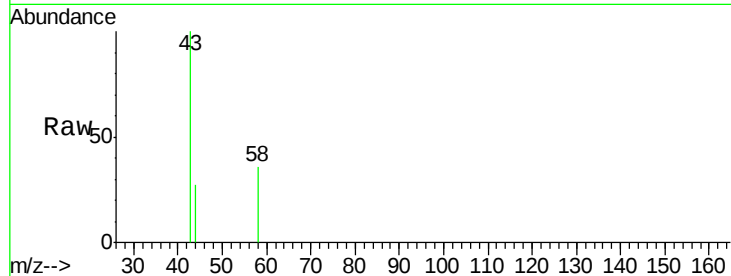
MW-8

Tgt Ion: 43 Resp: 1503

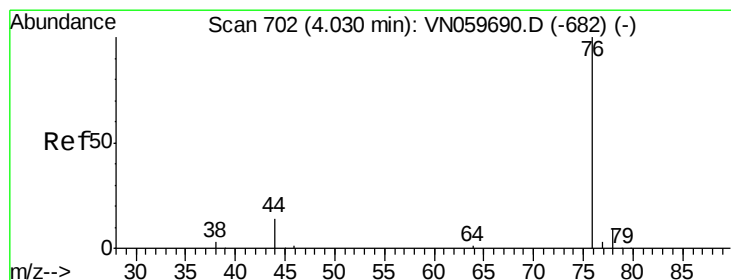
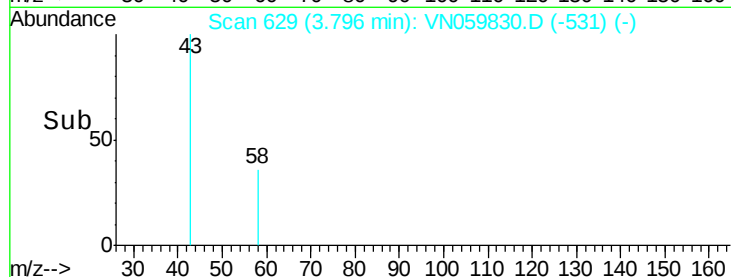
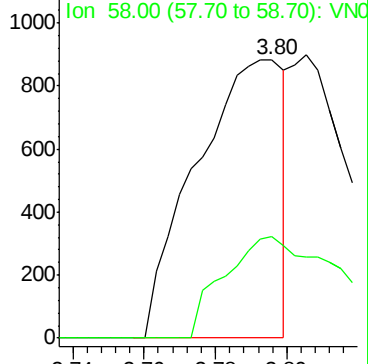
Ion Ratio Lower Upper

43 100

58 36.4 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VN059830.D (-593) (-)



#17

Carbon Disulfide

Concen: 0.24 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN059830.D

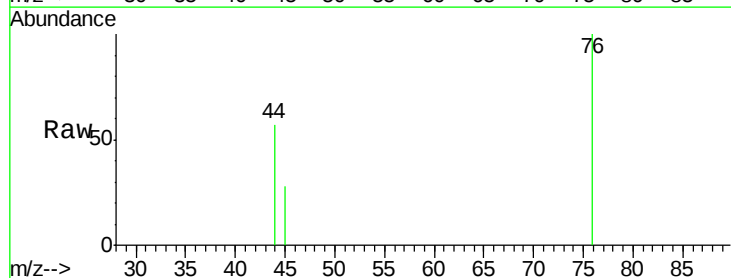
Acq: 22 Jan 2020 14:28

Tgt Ion: 76 Resp: 1337

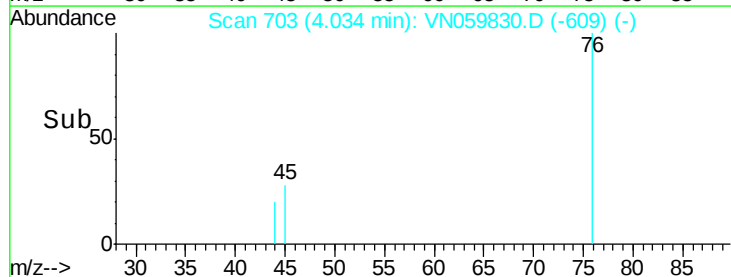
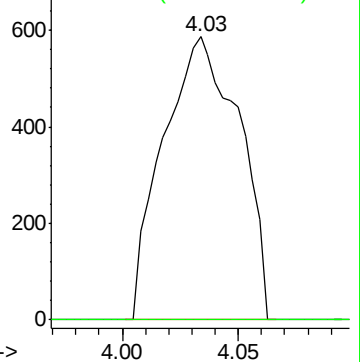
Ion Ratio Lower Upper

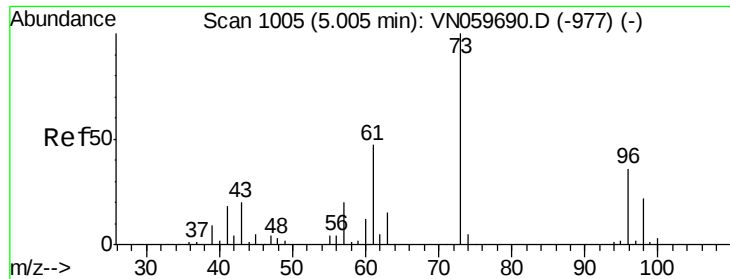
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN059830.D (-609) (-)

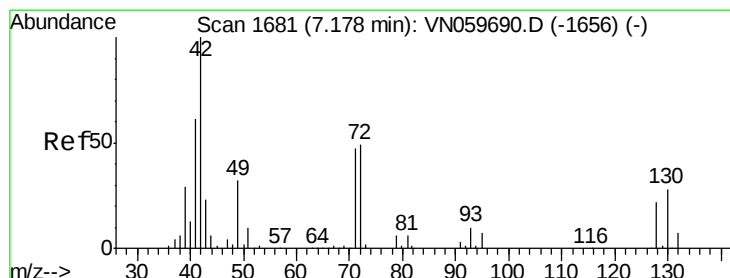
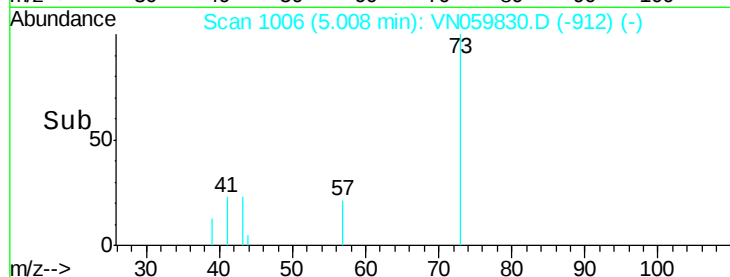
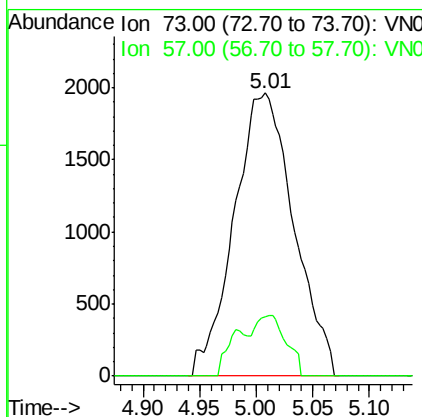
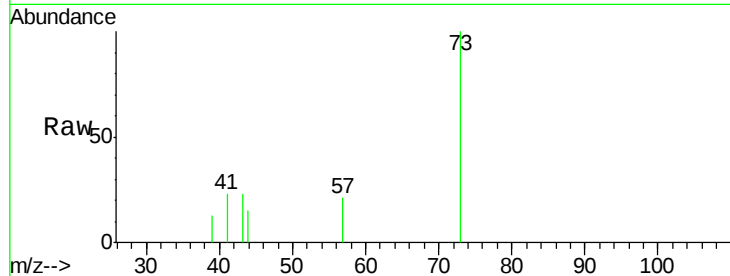




#19
Methyl tert-butyl Ether
Concen: 1.14 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VN059830.D
Acq: 22 Jan 2020 14:28

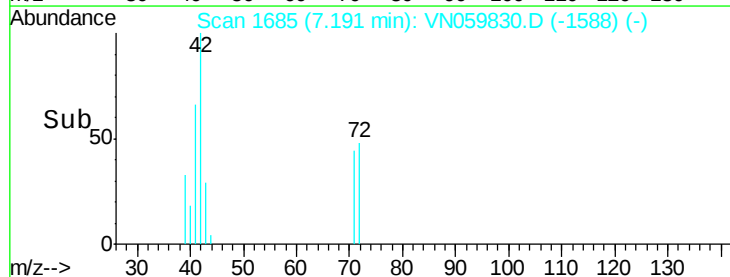
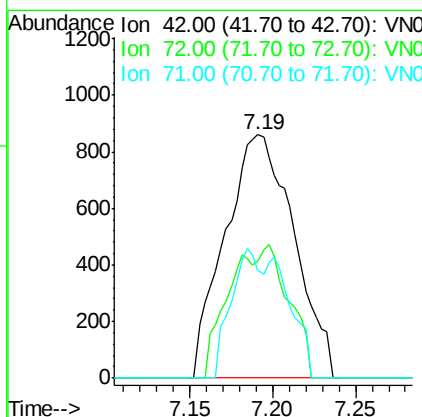
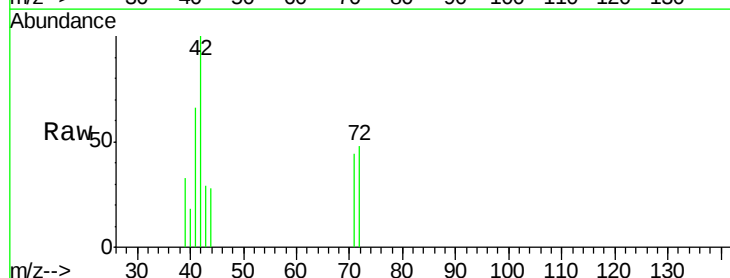
Instrument :
MSVOA_N
ClientSampled :
MW-8

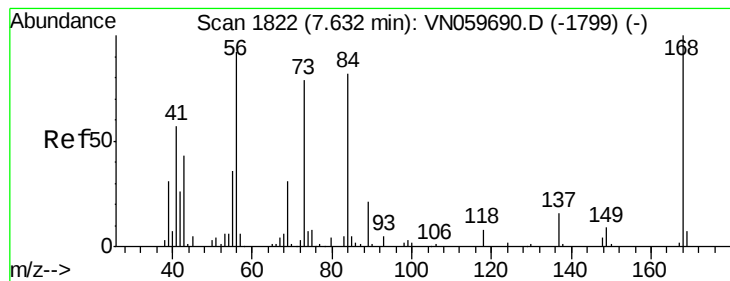
Tgt Ion: 73 Resp: 7207
Ion Ratio Lower Upper
73 100
57 21.2 18.6 27.8



#29
Tetrahydrofuran
Concen: 3.03 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN059830.D
Acq: 22 Jan 2020 14:28

Tgt Ion: 42 Resp: 2495
Ion Ratio Lower Upper
42 100
72 21.9 33.1 49.7#
71 23.8 31.4 47.0#





#31

Cyclohexane

Concen: 1.20 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059830.D

Acq: 22 Jan 2020 14:28

Instrument :

MSVOA_N

ClientSampled :

MW-8

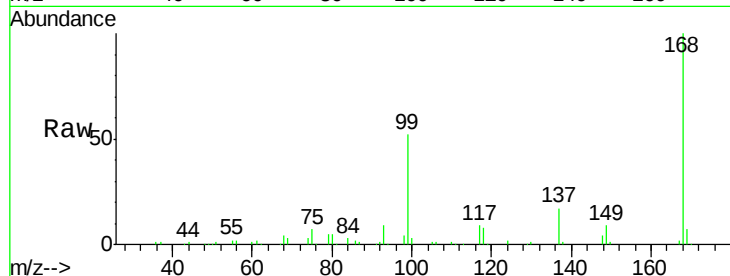
Tgt Ion: 56 Resp: 4192

Ion Ratio Lower Upper

56 100

69 165.8 26.5 39.7#

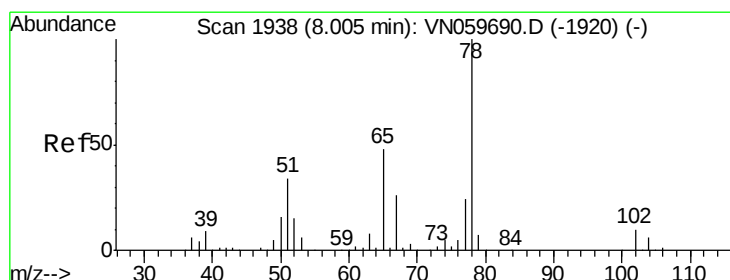
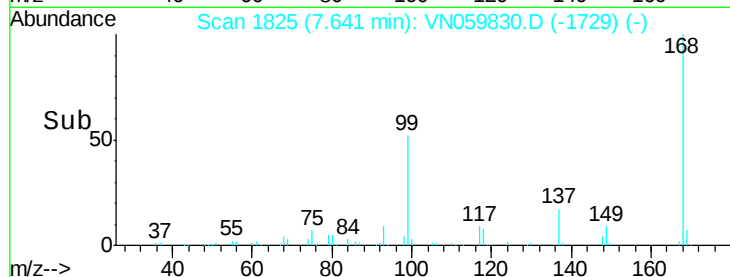
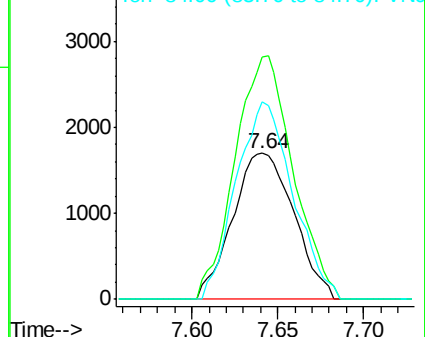
84 135.6 65.3 97.9#



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: 47.00 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059830.D

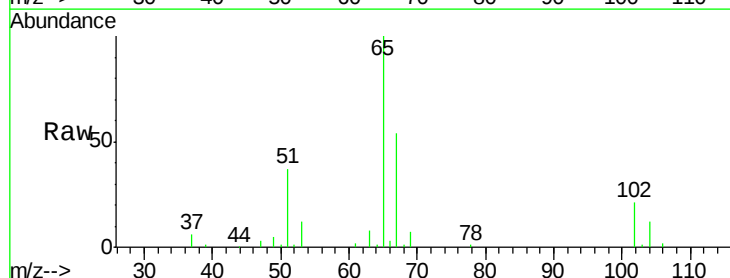
Acq: 22 Jan 2020 14:28

Tgt Ion: 65 Resp: 110582

Ion Ratio Lower Upper

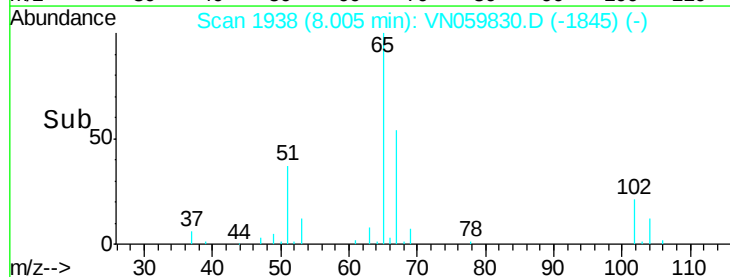
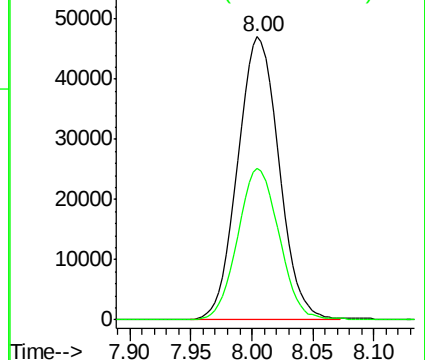
65 100

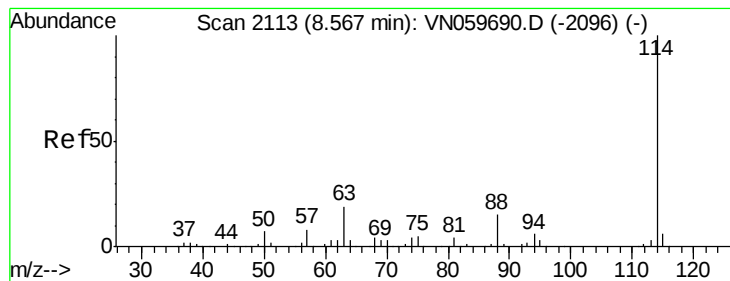
67 53.7 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059830.D

Acq: 22 Jan 2020 14:28

Instrument :

MSVOA_N

ClientSampleId :

MW-8

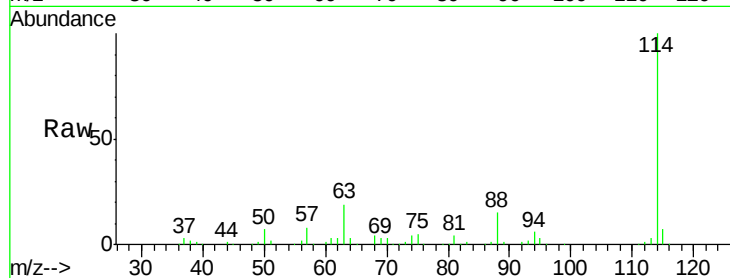
Tgt Ion:114 Resp: 316586

Ion Ratio Lower Upper

114 100

63 18.8 0.0 43.6

88 15.0 0.0 31.4



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

8.57

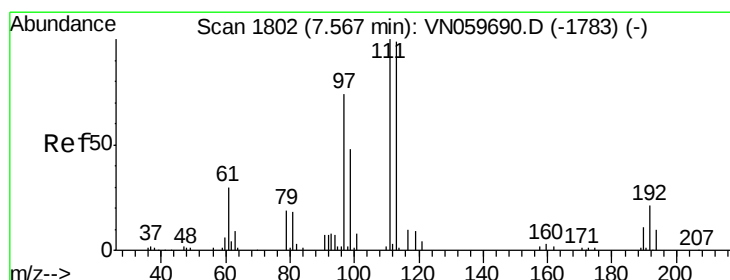
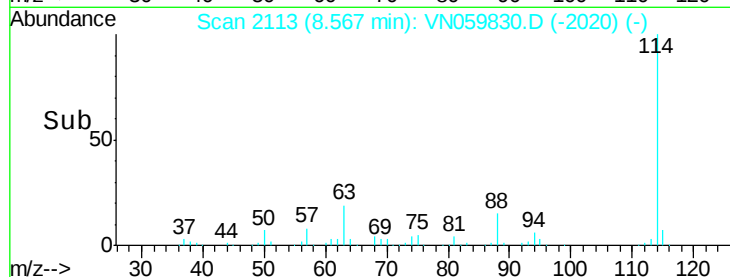
150000

100000

50000

0

Time-->



#35

Dibromofluoromethane

Concen: 51.44 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059830.D

Acq: 22 Jan 2020 14:28

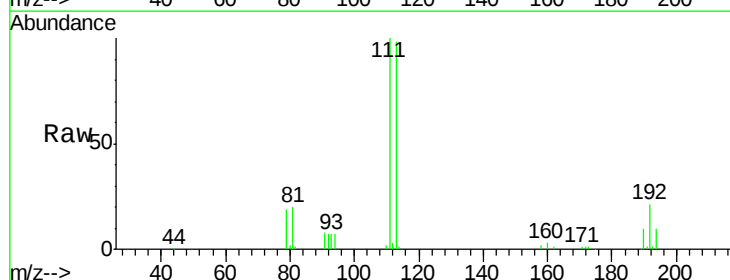
Tgt Ion:113 Resp: 97108

Ion Ratio Lower Upper

113 100

111 101.8 83.5 125.3

192 20.9 15.4 23.2



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

7.57

50000

40000

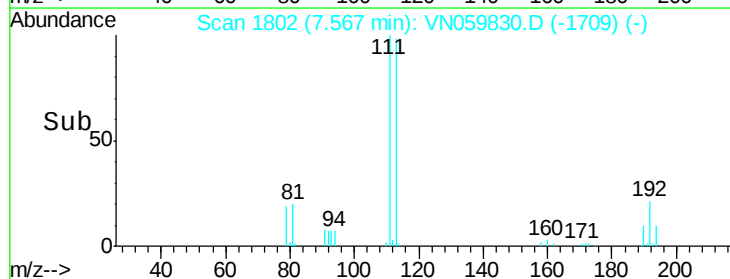
30000

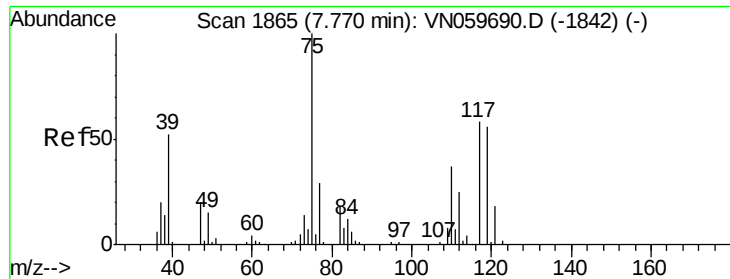
20000

10000

0

Time-->

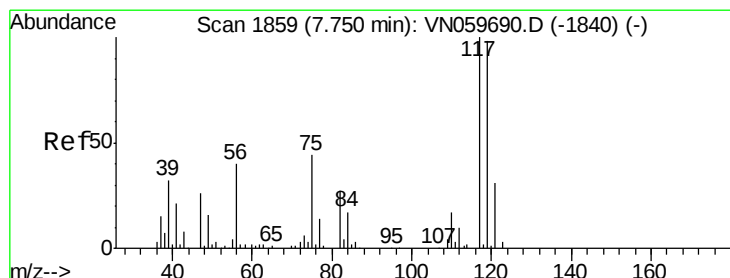
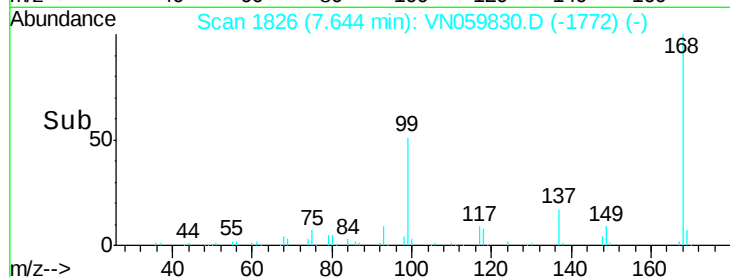
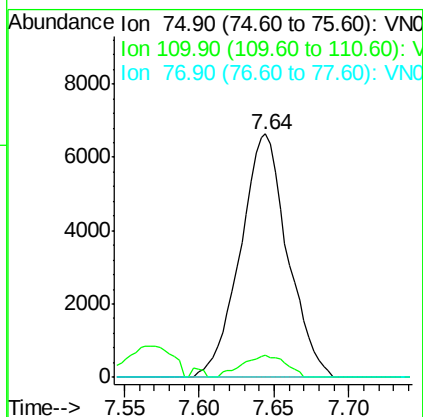
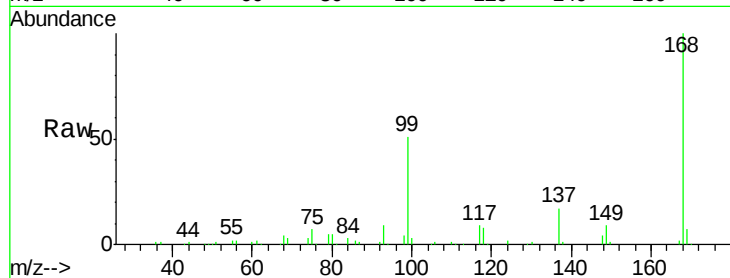




#36
 1,1-Dichloropropene
 Concen: 5.28 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059830.D
 Acq: 22 Jan 2020 14:28

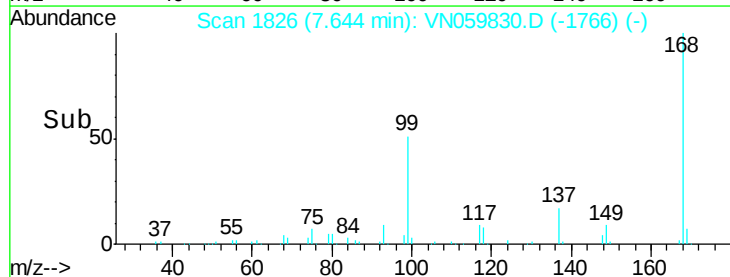
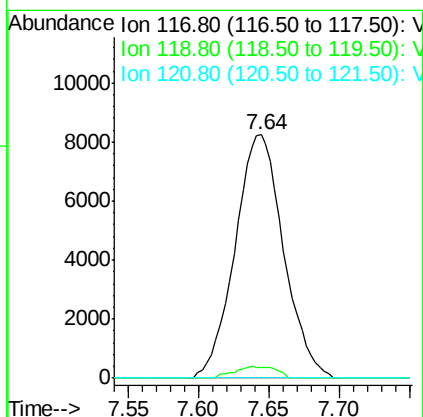
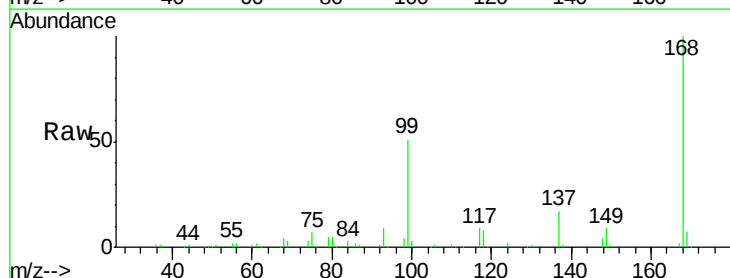
Instrument :
 MSVOA_N
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 MW-8

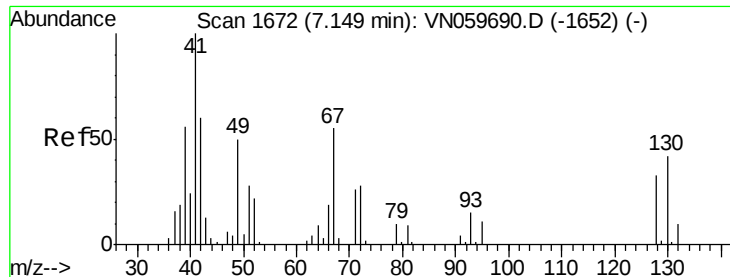
Tgt Ion: 75 Resp: 14564
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.6 49.7#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.60 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059830.D
 Acq: 22 Jan 2020 14:28

Tgt Ion: 117 Resp: 19787
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.5 114.7#
 121 0.0 25.1 37.7#





#41

Methacrylonitrile

Concen: 1.22 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.05 min

Lab File: VN059830.D

Acq: 22 Jan 2020 14:28

Instrument :

MSVOA_N

ClientSampleId :

MW-8

Tgt Ion: 41 Resp: 1555

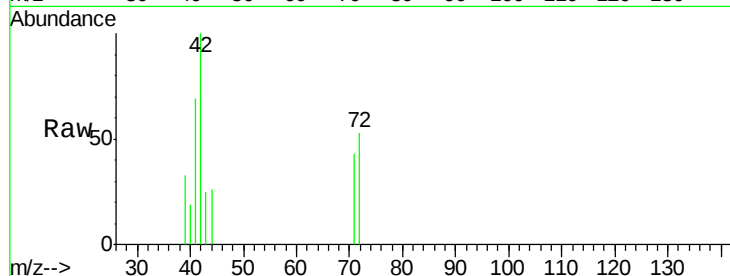
Ion Ratio Lower Upper

41 100

39 56.1 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

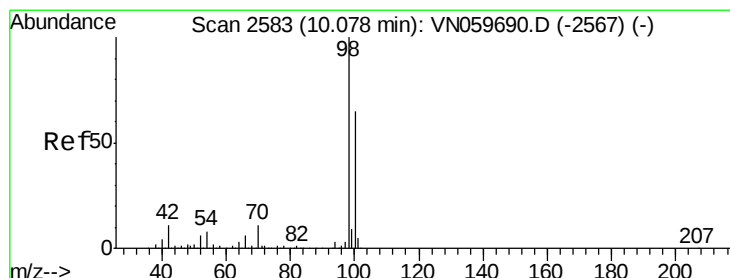
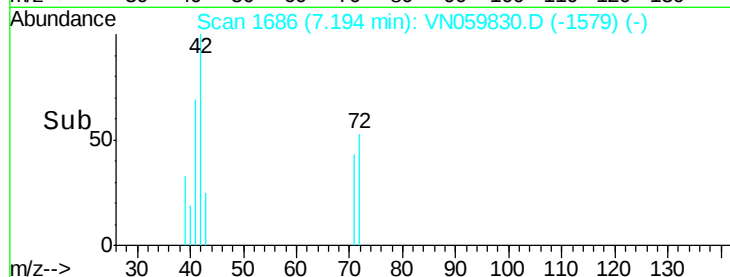
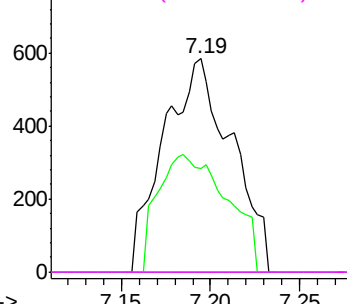


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#50

Toluene-d8

Concen: 51.17 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059830.D

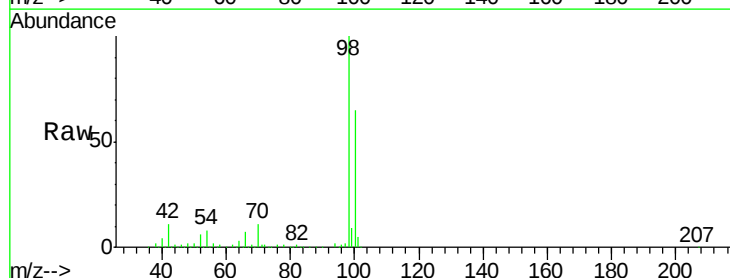
Acq: 22 Jan 2020 14:28

Tgt Ion: 98 Resp: 374311

Ion Ratio Lower Upper

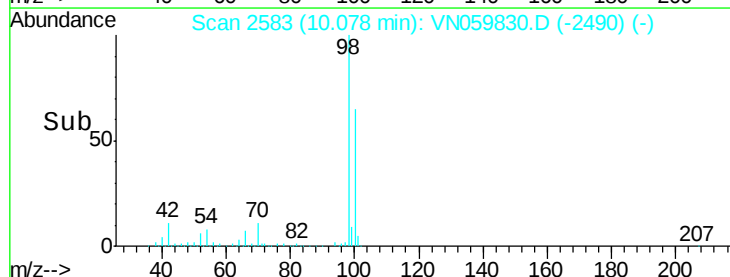
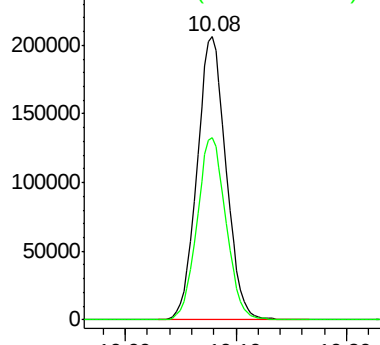
98 100

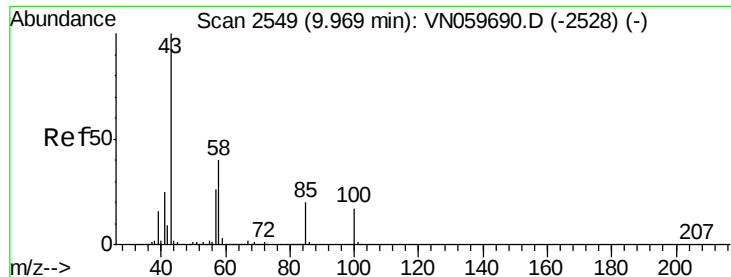
100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

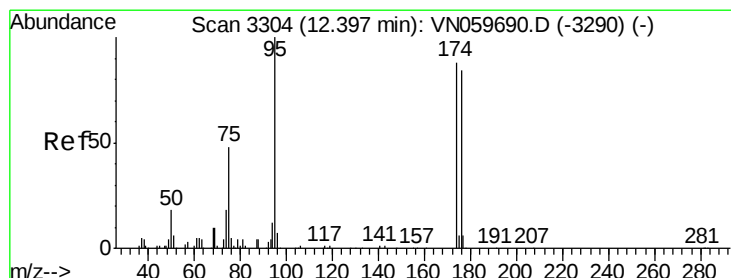
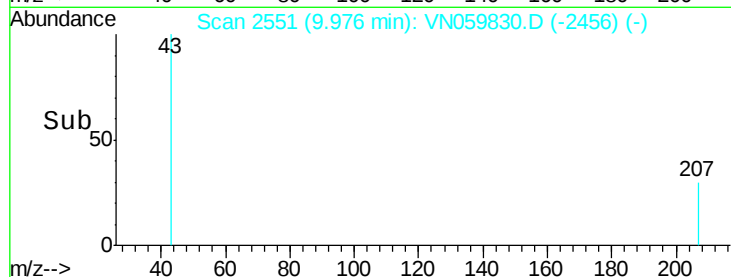
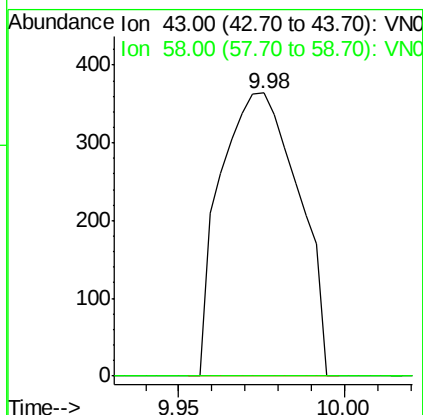
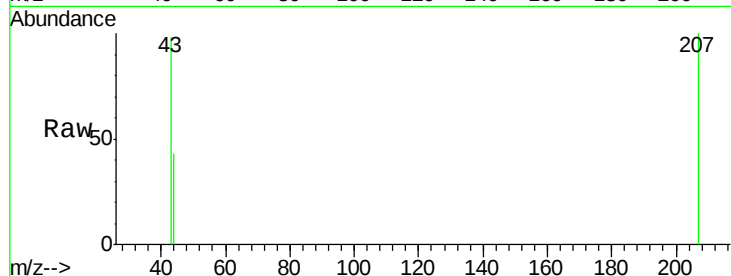




#51
 4-Methyl-2-Pentanone
 Concen: 0.23 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.01 min
 Lab File: VN059830.D
 Acq: 22 Jan 2020 14:28

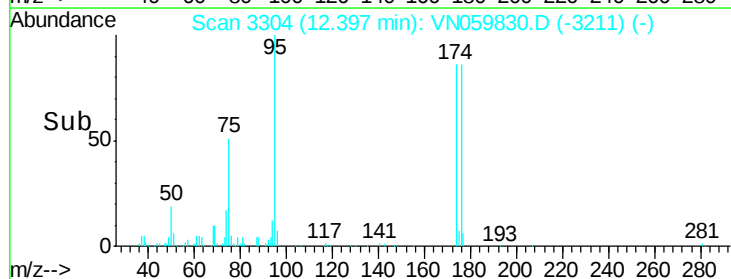
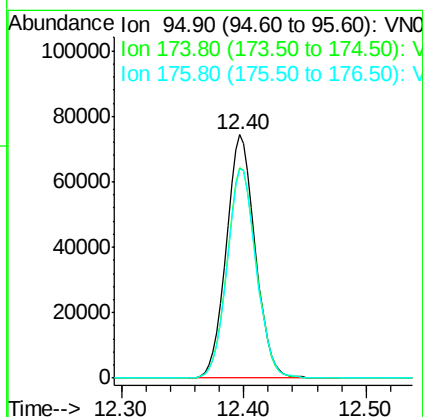
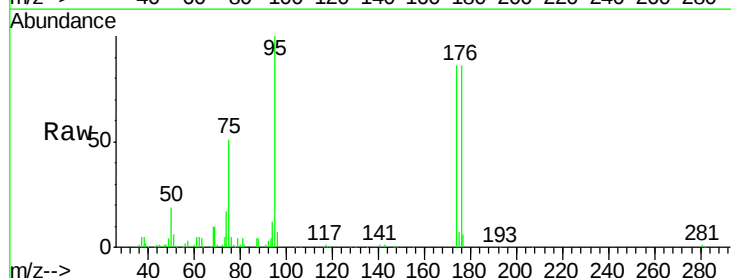
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-8

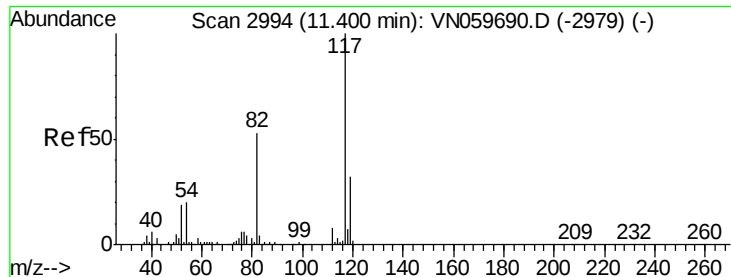
Tgt Ion: 43 Resp: 597
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 44.8#



#62
 4-Bromofluorobenzene
 Concen: 46.88 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.00 min
 Lab File: VN059830.D
 Acq: 22 Jan 2020 14:28

Tgt Ion: 95 Resp: 123617
 Ion Ratio Lower Upper
 95 100
 174 87.2 0.0 151.4
 176 86.2 0.0 146.0

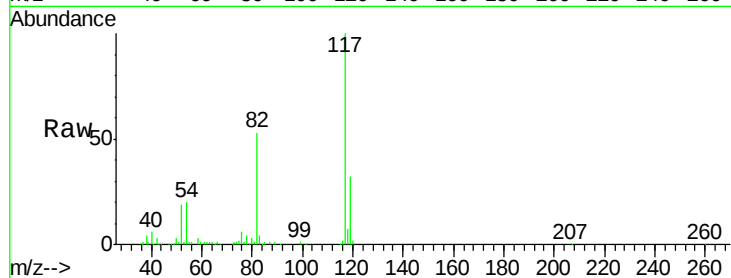




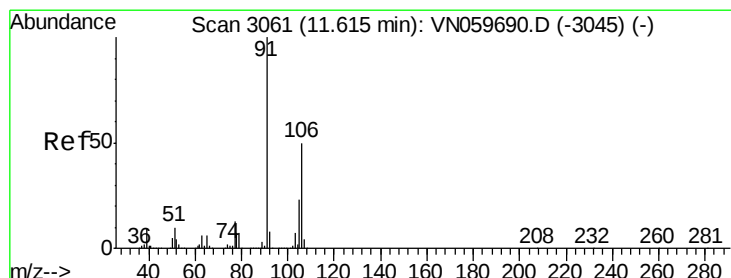
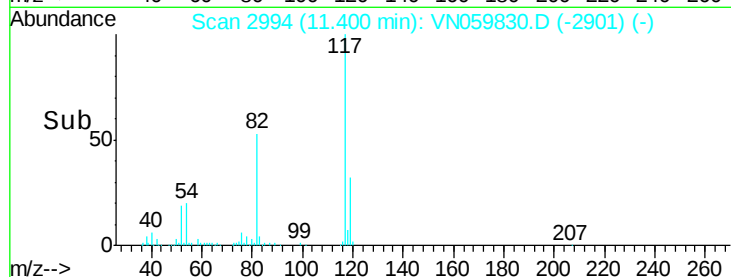
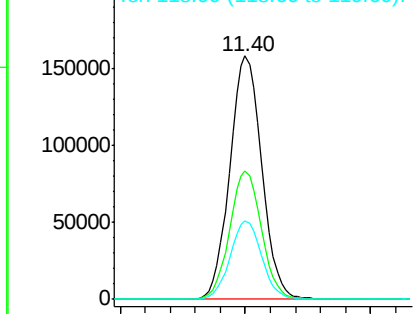
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059830.D
Acq: 22 Jan 2020 14:28

Instrument :
MSVOA_N
ClientSampled :
MW-8

Tgt Ion:117 Resp: 279461
Ion Ratio Lower Upper
117 100
82 52.5 45.9 68.9
119 32.1 25.5 38.3

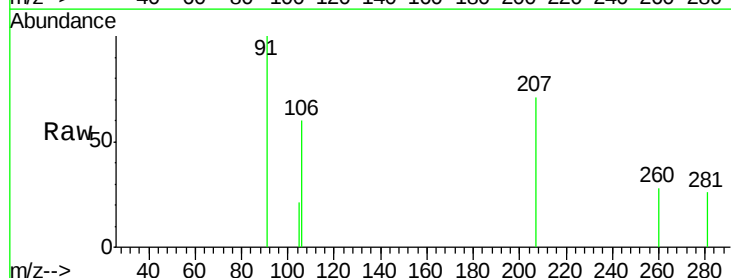


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

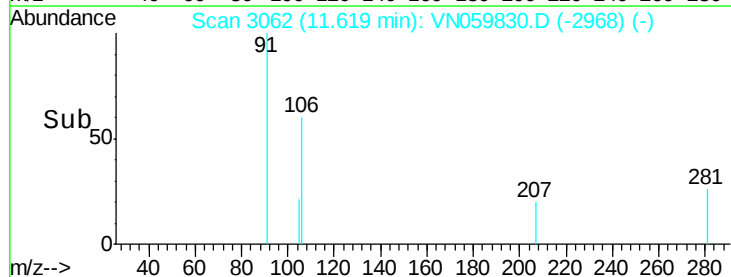
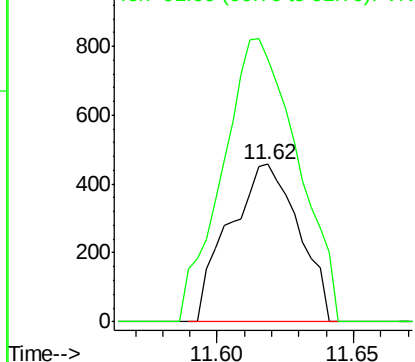


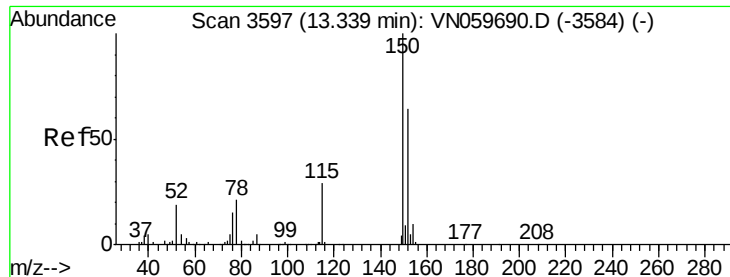
#68
m/p-Xylenes
Concen: 0.21 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN059830.D
Acq: 22 Jan 2020 14:28

Tgt Ion:106 Resp: 806
Ion Ratio Lower Upper
106 100
91 195.0 167.9 251.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059830.D

Acq: 22 Jan 2020 14:28

Instrument :

MSVOA_N

ClientSampleId :

MW-8

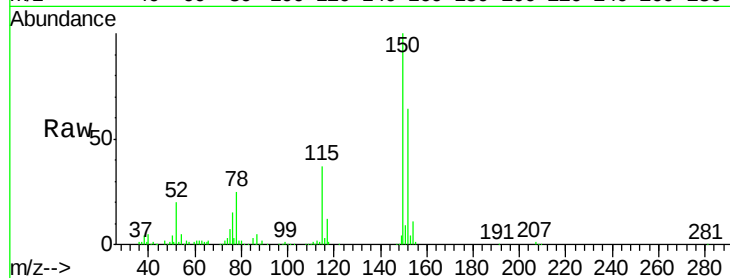
Tgt Ion:152 Resp: 114718

Ion Ratio Lower Upper

152 100

115 57.5 30.3 90.9

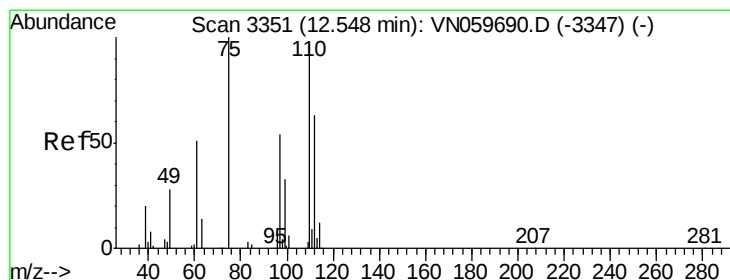
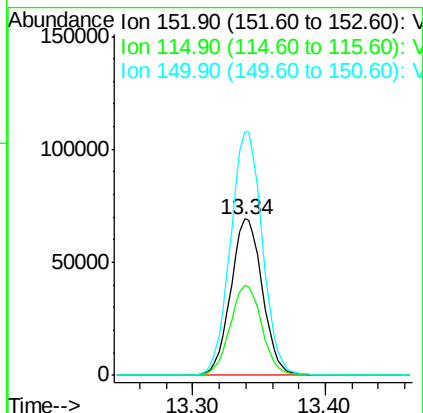
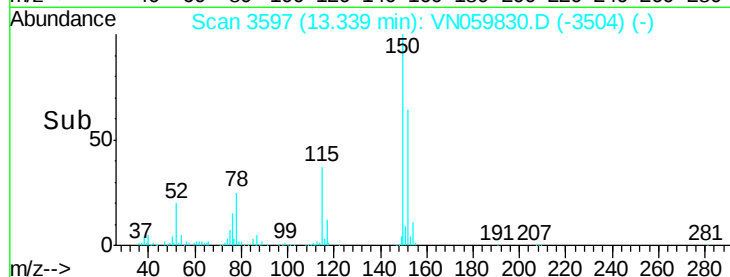
150 158.1 0.0 345.2



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: 32.77 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059830.D

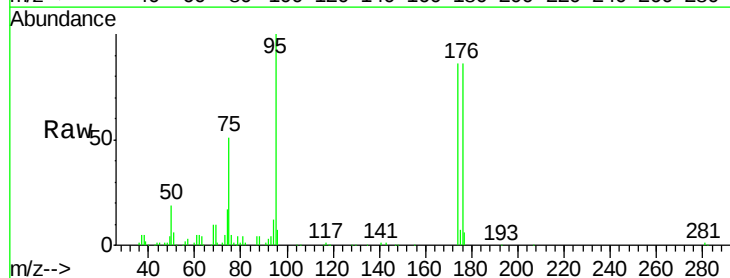
Acq: 22 Jan 2020 14:28

Tgt Ion: 75 Resp: 63256

Ion Ratio Lower Upper

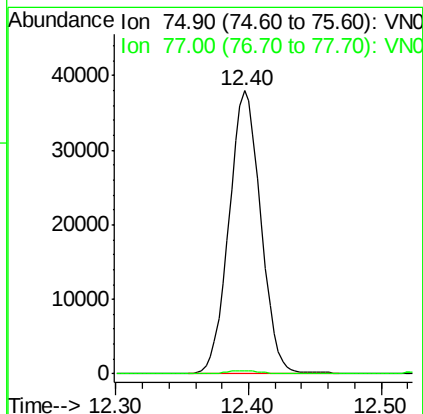
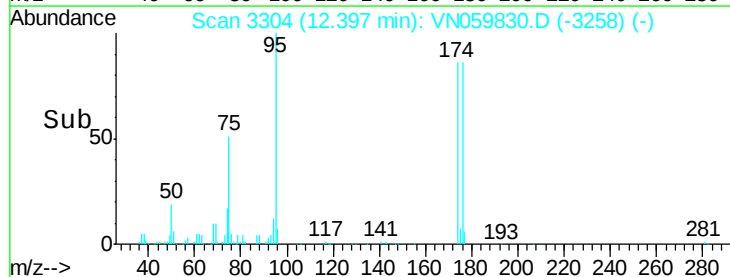
75 100

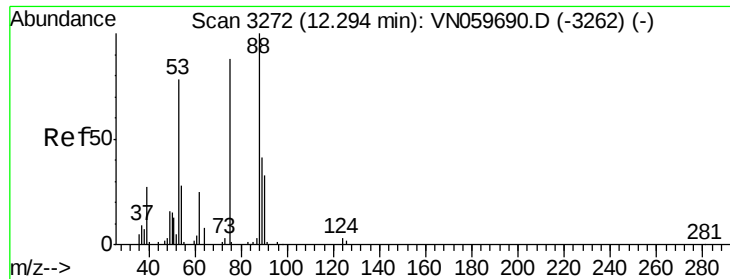
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

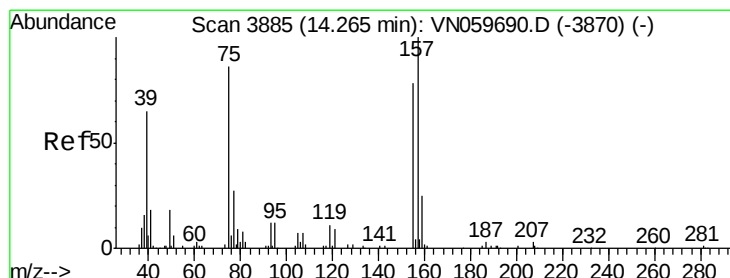
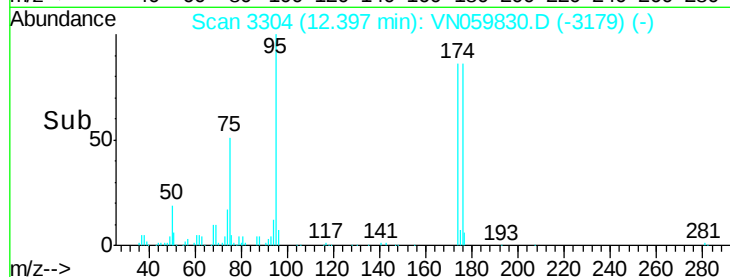
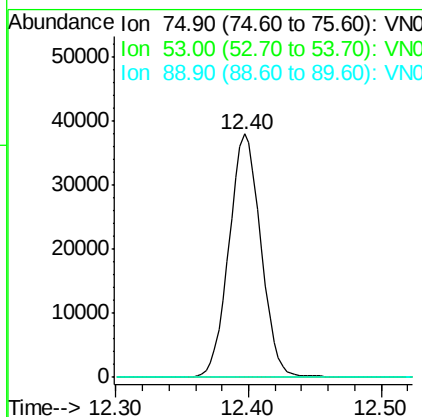
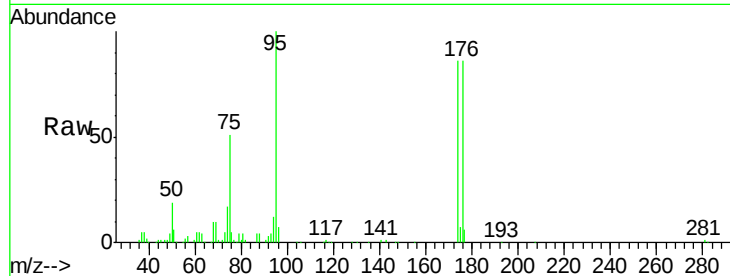




#81
trans-1,4-Dichloro-2-butene
Concen: 70.36 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN059830.D
Acq: 22 Jan 2020 14:28

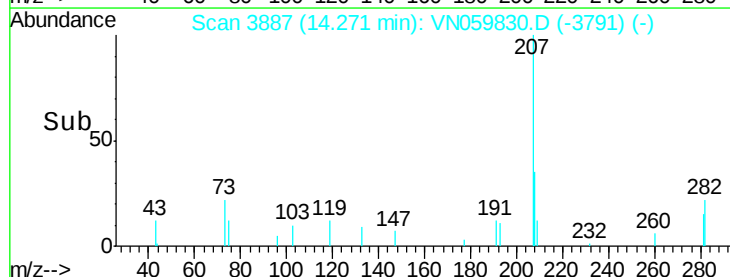
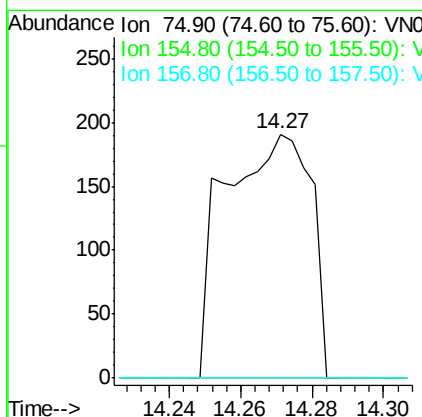
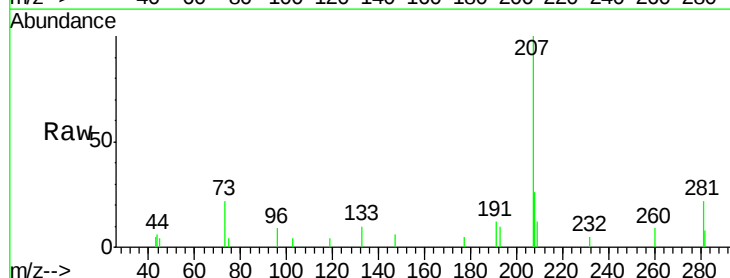
Instrument :
MSVOA_N
ClientSampleId :
MW-8

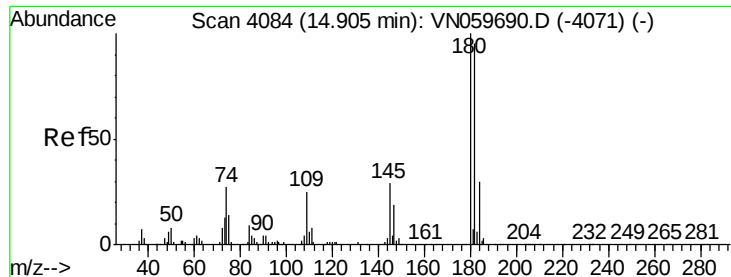
Tgt Ion: 75 Resp: 63256
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.27 min Scan# 3887
Delta R.T. 0.01 min
Lab File: VN059830.D
Acq: 22 Jan 2020 14:28

Tgt Ion: 75 Resp: 318
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#

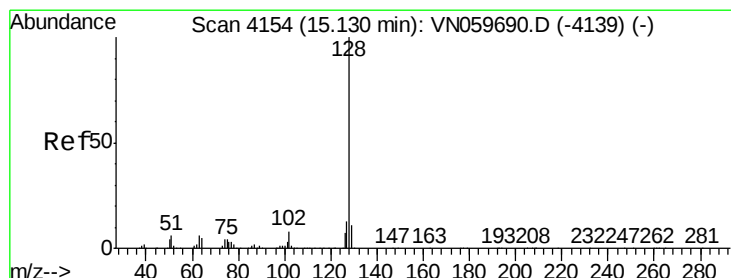
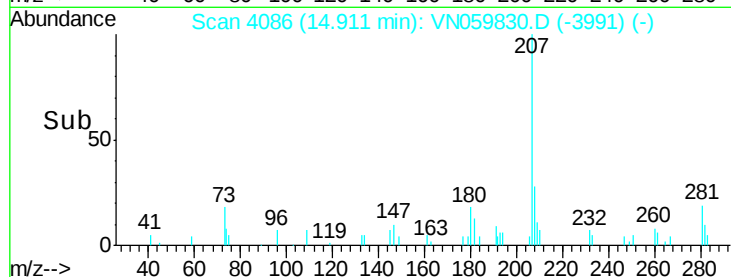
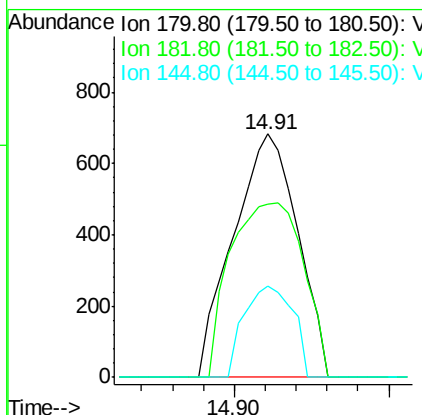
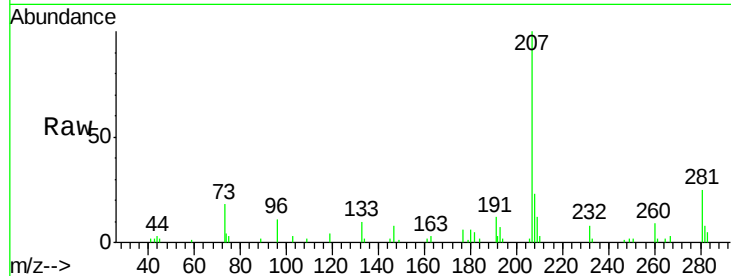




#93
 1,2,4-Trichlorobenzene
 Concen: 0.45 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN059830.D
 Acq: 22 Jan 2020 14:28

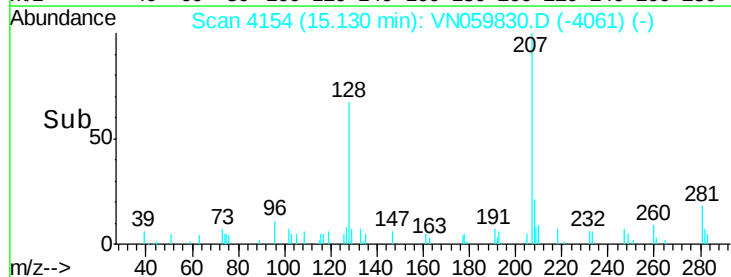
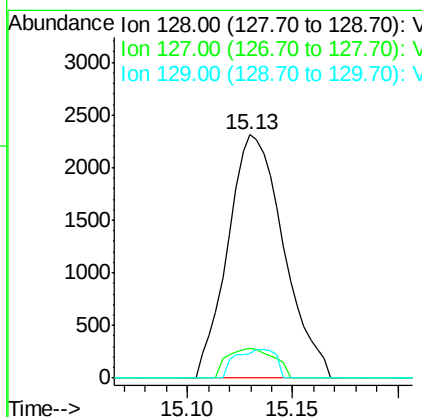
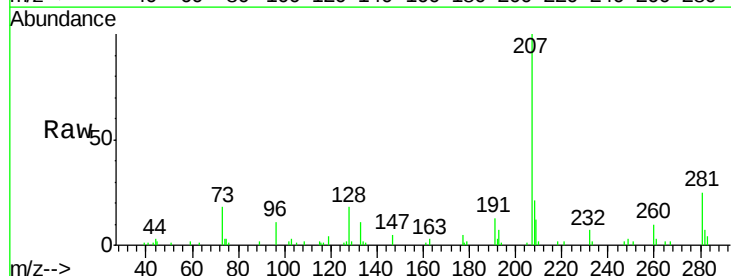
Instrument :
 MSVOA_N
 ClientSampled :
 MW-8

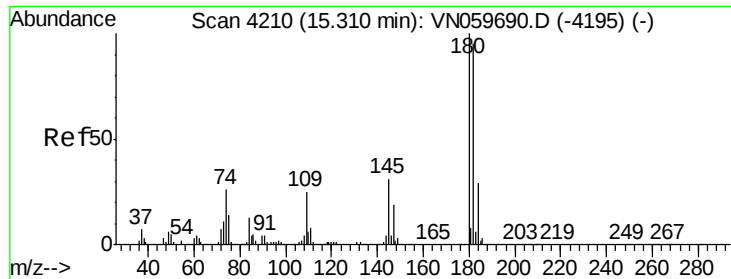
Tgt Ion:180 Resp: 986
 Ion Ratio Lower Upper
 180 100
 182 81.8 46.9 140.7
 145 28.4 15.0 45.1



#95
 Naphthalene
 Concen: 0.68 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059830.D
 Acq: 22 Jan 2020 14:28

Tgt Ion:128 Resp: 4243
 Ion Ratio Lower Upper
 128 100
 127 10.3 10.4 15.6#
 129 8.6 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.62 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN059830.D
 Acq: 22 Jan 2020 14:28

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-8

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.9	47.4	142.3
145	27.1	16.3	48.9

