

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051231.D
 Acq On : 15 Sep 2018 18:47
 Operator : MD\SY
 Sample : PB112879ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 02:17:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	415612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	666370	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	549927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	165744	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	228858	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
35) Dibromofluoromethane	7.59	113	244471	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
50) Toluene-d8	10.09	98	842020	44.31	ug/l	0.00
Spiked Amount			Recovery	=	88.62%	
62) 4-Bromofluorobenzene	12.40	95	225620	35.90	ug/l	0.00
Spiked Amount			Recovery	=	71.80%	

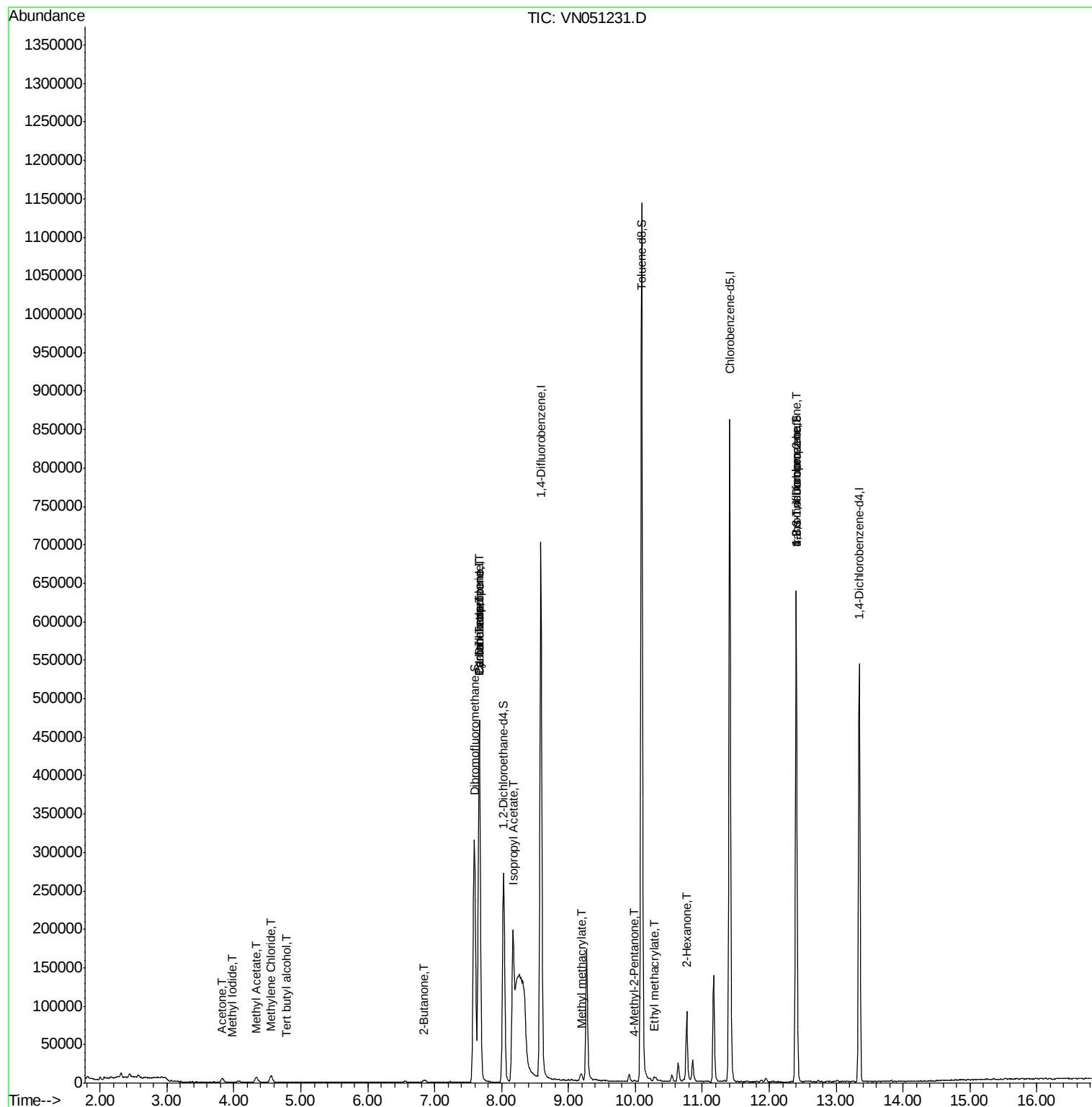
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1749	Below Cal	#	79
5) Bromomethane	2.57	94	1866	Below Cal	#	74
10) Methyl Iodide	3.97	142	281	5.69	ug/l	# 44
11) Tert butyl alcohol	4.79	59	233	0.66	ug/l	# 73
16) Acetone	3.82	43	9455	2.49	ug/l	97
18) Methyl Acetate	4.33	43	12971	3.50	ug/l	98
20) Methylene Chloride	4.56	84	6777	1.33	ug/l	# 87
25) 2-Butanone	6.85	43	5215	2.87	ug/l	91
31) Cyclohexane	7.67	56	6981	0.70	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	26725	3.65	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	35818	4.97	ug/l	# 17
43) Isopropyl Acetate	8.17	43	258660	34.60	ug/l	# 78
48) Methyl methacrylate	9.18	41	5716	1.57	ug/l	# 19
51) 4-Methyl-2-Pentanone	9.99	43	1580	0.38	ug/l	# 74
56) Ethyl methacrylate	10.29	69	196	2.48	ug/l	# 1
59) 2-Hexanone	10.77	43	13049	4.65	ug/l	# 60
76) 1,2,3-Trichloropropane	12.40	75	103135	39.83	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	103135	118.18	ug/l	# 15

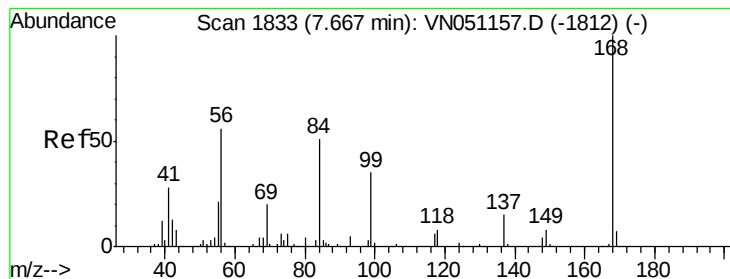
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 11 02:27:09 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

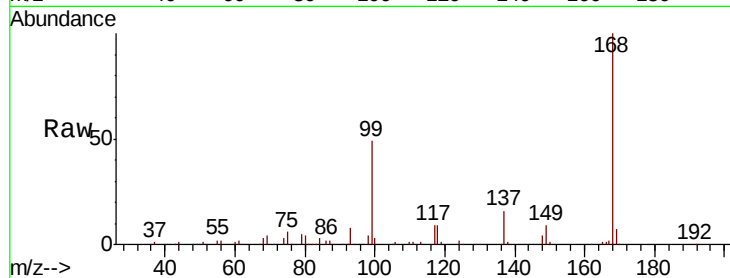
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 415612

Ion Ratio Lower Upper

168 100

99 49.1 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

200000

150000

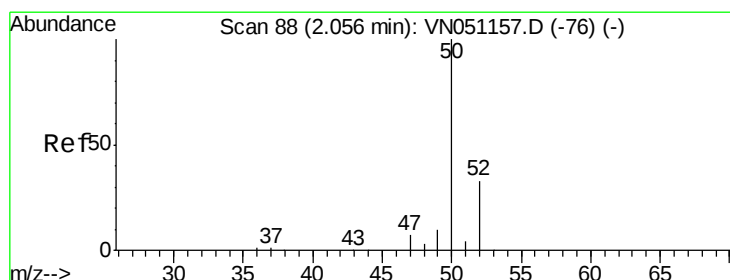
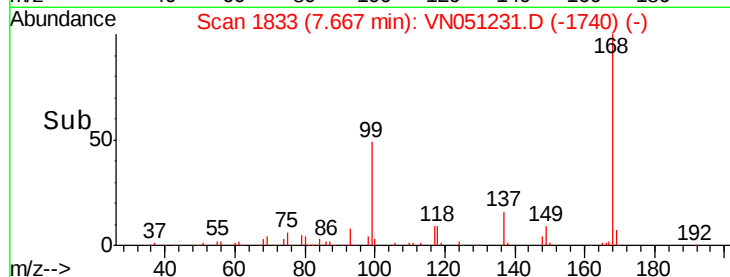
100000

50000

0

7.60 7.67 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051231.D

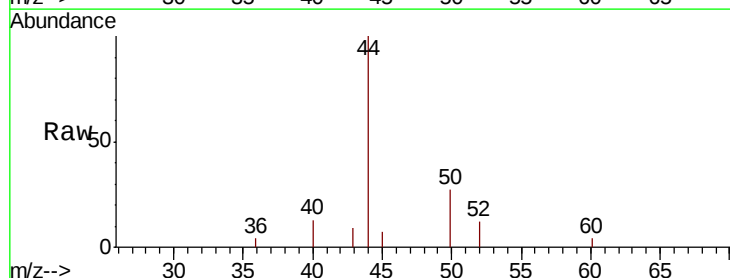
Acq: 15 Sep 2018 18:47

Tgt Ion: 50 Resp: 1749

Ion Ratio Lower Upper

50 100

52 44.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

1500

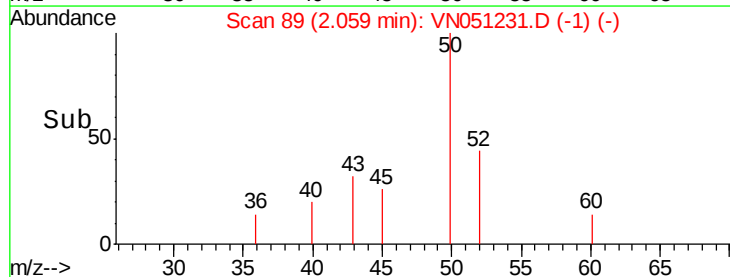
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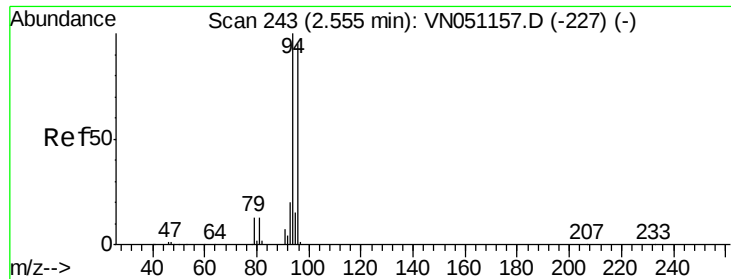
500

0

2.02 2.04 2.06 2.08 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

Instrument :

MSVOA_N

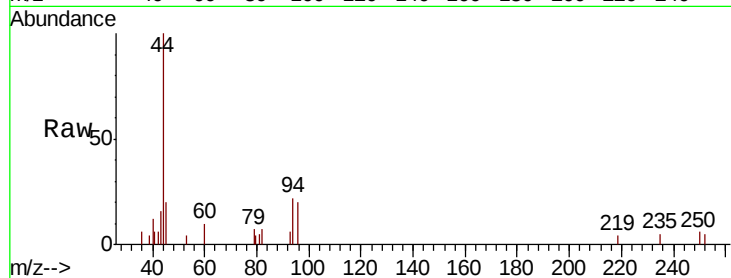
ClientSampled :

Tot Ion: 94 Resp: 1866

Ion Ratio Lower Upper

94 100

96 69.9 75.9 113.9#



Abundance Ion 93.90 (93.60 to 94.60): VN051157.D (-227) (-)

Ion 95.90 (95.60 to 96.60): VN051157.D (-227) (-)

2.57

800

600

400

200

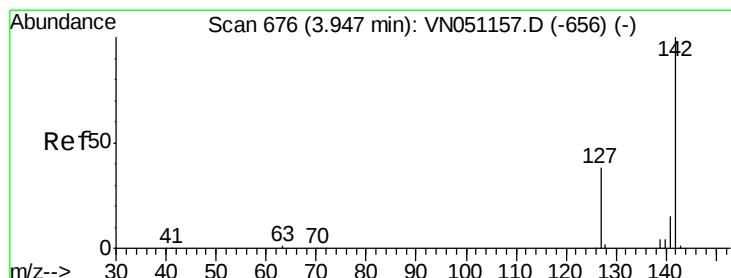
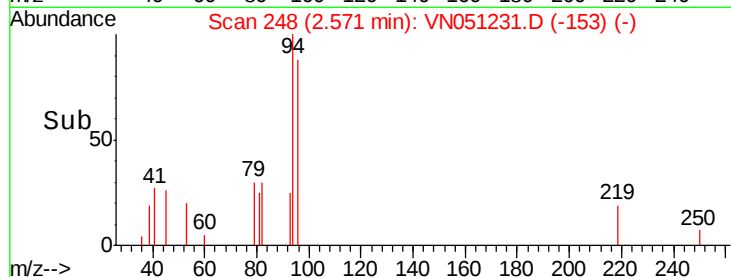
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Time-->

2.50

2.55

2.60



#10

Methyl Iodide

Concen: 5.69 ug/l

RT: 3.97 min Scan# 683

Delta R.T. 0.02 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

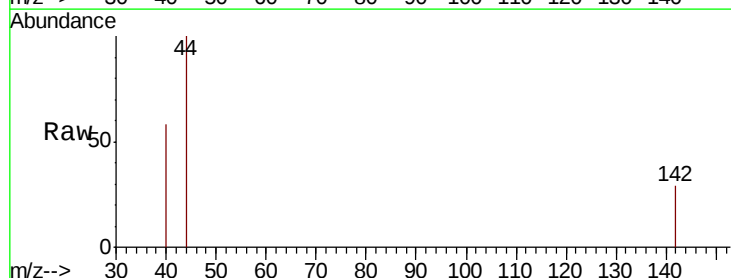
Tgt Ion: 142 Resp: 281

Ion Ratio Lower Upper

142 100

127 0.0 31.0 46.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VN051157.D (-656) (-)

Ion 126.80 (126.50 to 127.50): VN051157.D (-656) (-)

Ion 140.80 (140.50 to 141.50): VN051157.D (-656) (-)

3.97

300

200

100

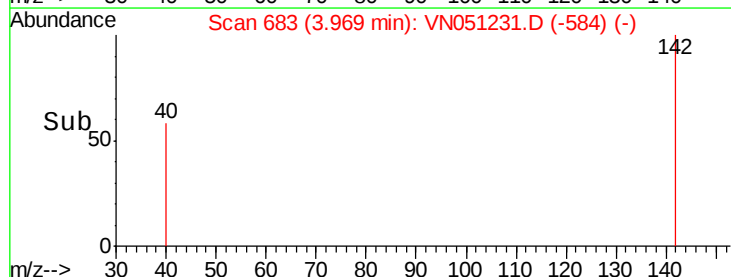
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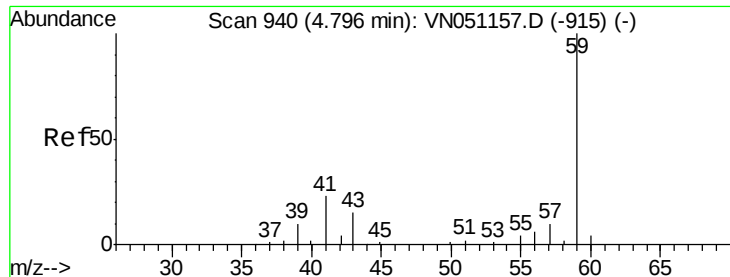
Time-->

3.94

3.96

3.98

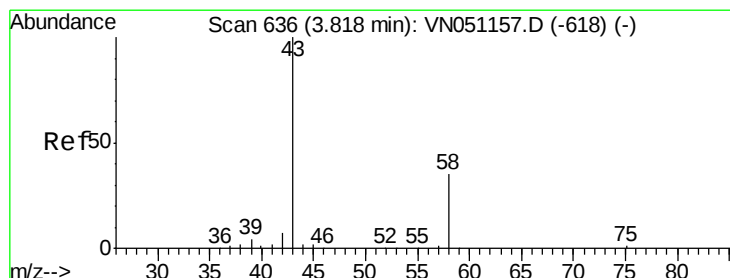
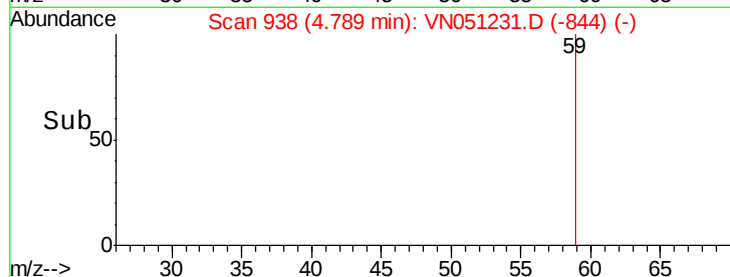
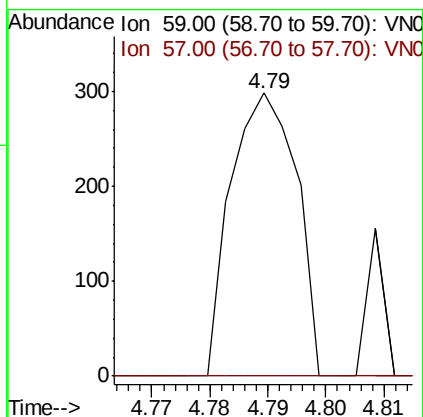
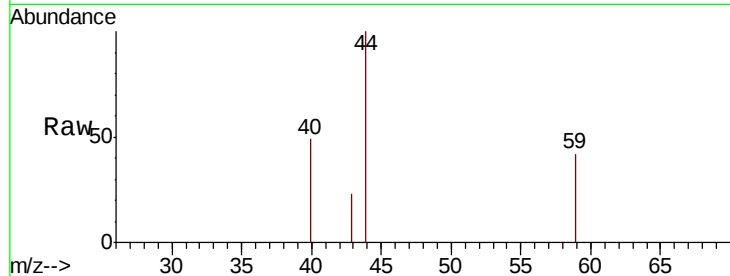




#11
Tert butyl alcohol
Concen: 0.66 ug/l
RT: 4.79 min Scan# 938
Delta R.T. 0.00 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

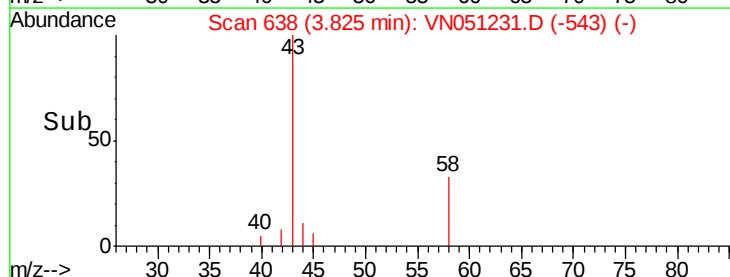
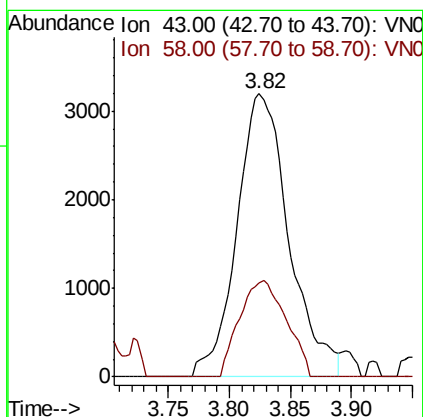
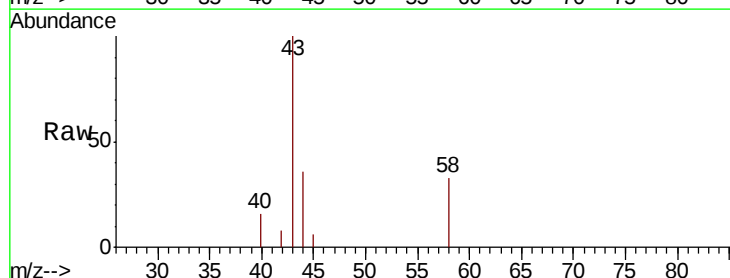
Instrument :
MSVOA_N
ClientSampled :

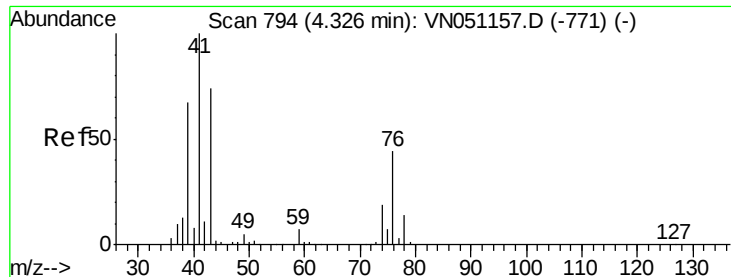
Tot Ion: 59 Resp: 233
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 2.49 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

Tgt Ion: 43 Resp: 9455
Ion Ratio Lower Upper
43 100
58 33.1 27.8 41.6

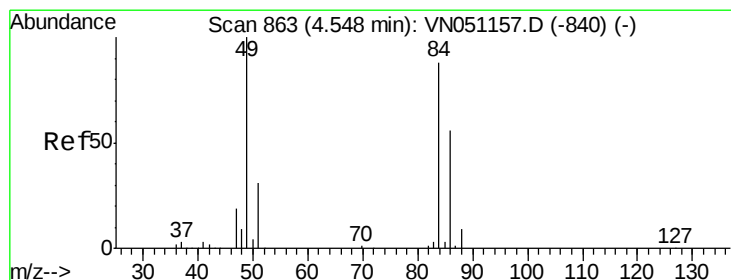
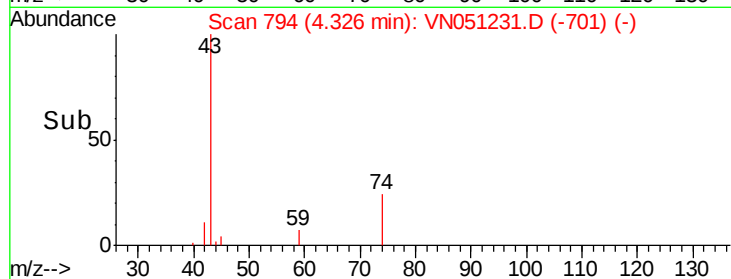
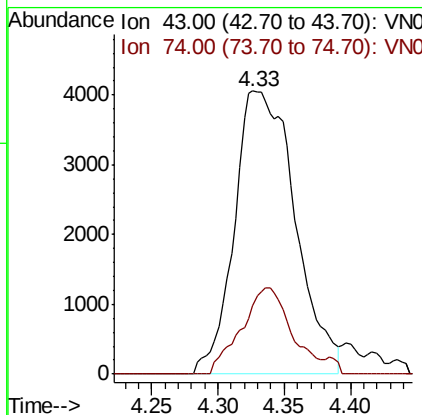
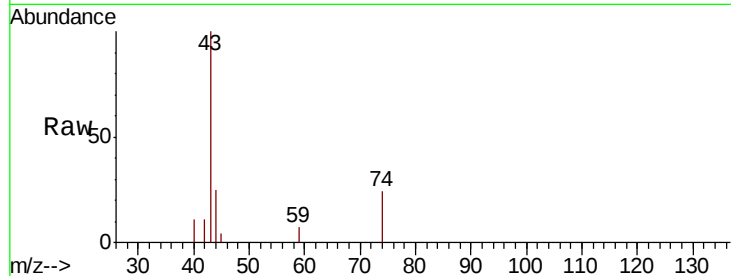




#18
Methvl Acetate
Concen: 3.50 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

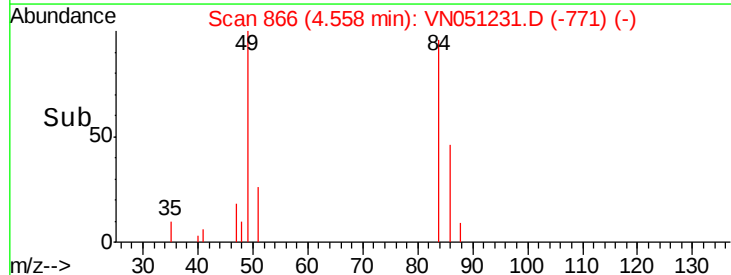
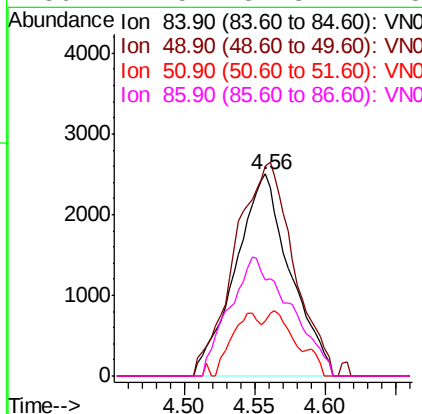
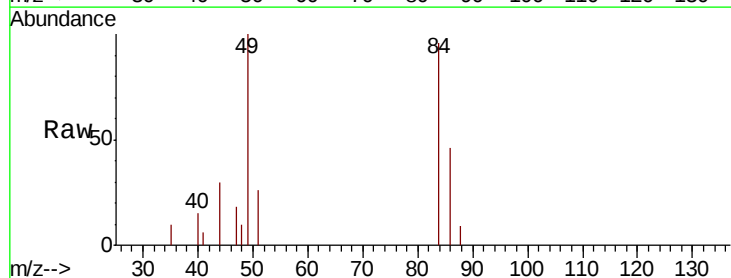
Instrument :
MSVOA_N
ClientSampleId :

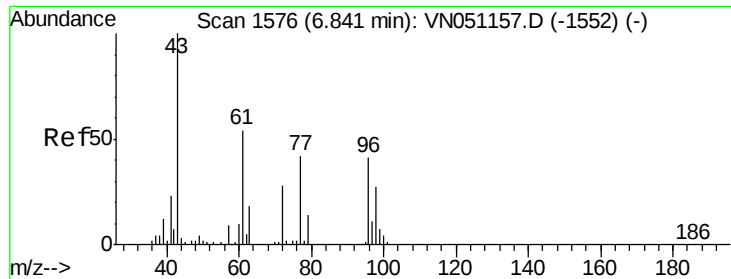
Tot Ion: 43 Resp: 12971
Ion Ratio Lower Upper
43 100
74 25.0 20.7 31.1



#20
Methylene Chloride
Concen: 1.33 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

Tgt Ion: 84 Resp: 6777
Ion Ratio Lower Upper
84 100
49 104.1 90.2 135.2
51 27.6 28.4 42.6#
86 47.5 51.8 77.8#





#25

2-Butanone

Concen: 2.87 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

Instrument :

MSVOA_N

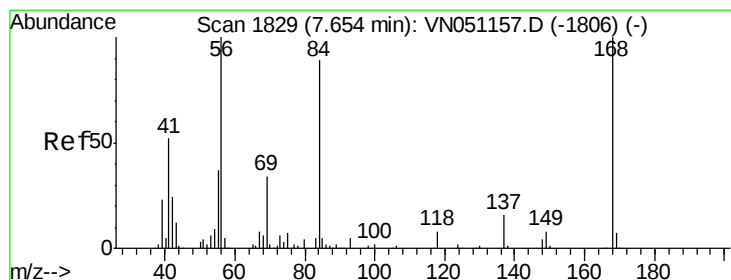
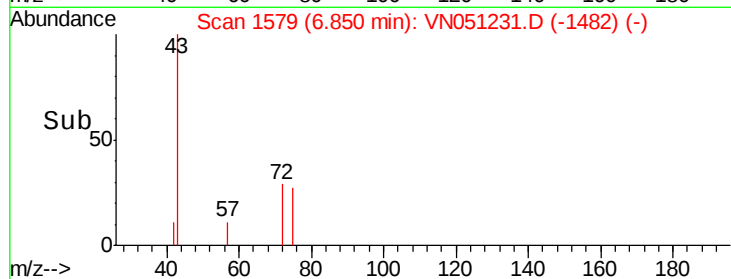
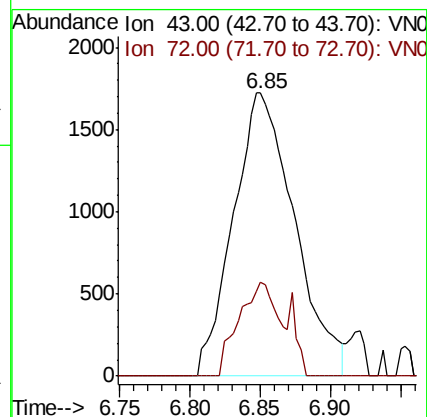
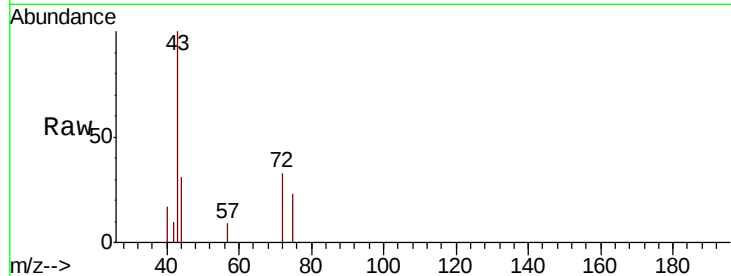
ClientSampleId :

Tot Ion: 43 Resp: 5215

Ion Ratio Lower Upper

43 100

72 33.3 23.0 34.6



#31

Cyclohexane

Concen: 0.70 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

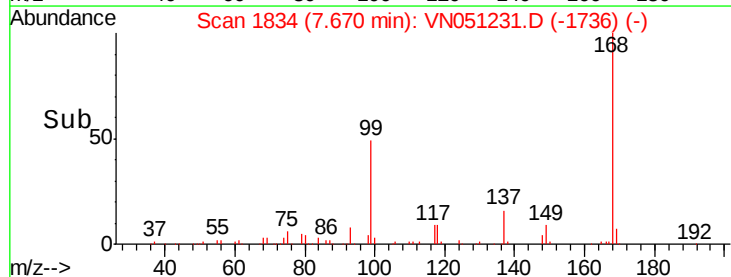
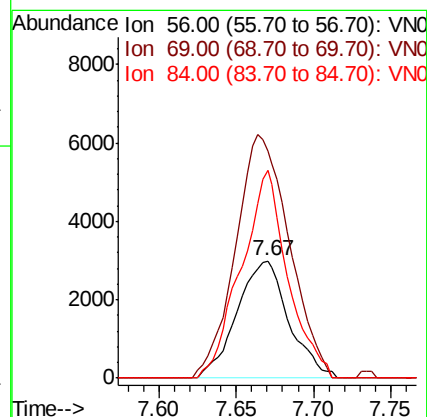
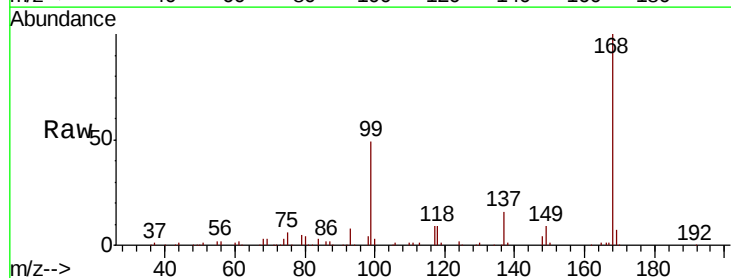
Tgt Ion: 56 Resp: 6981

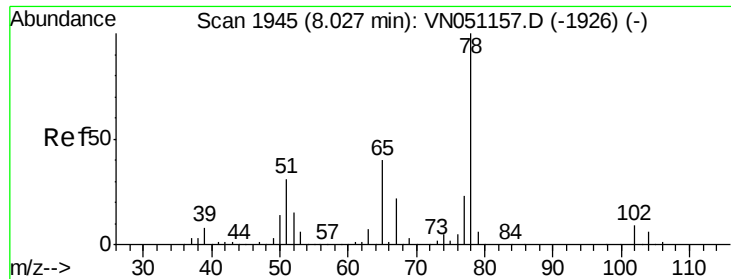
Ion Ratio Lower Upper

56 100

69 193.6 26.3 39.5#

84 177.8 69.4 104.0#





#33

1,2-Dichloroethane-d4

Concen: 49.48 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

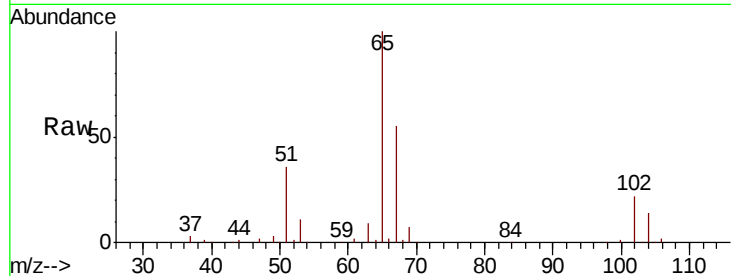
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 228858

Ion Ratio Lower Upper

65 100

67 54.5 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN051157.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051157.D (-1926) (-)

8.03

100000

80000

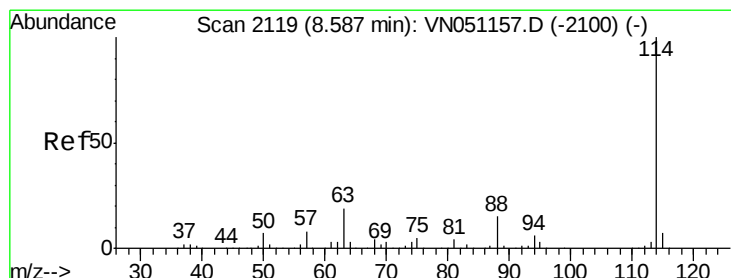
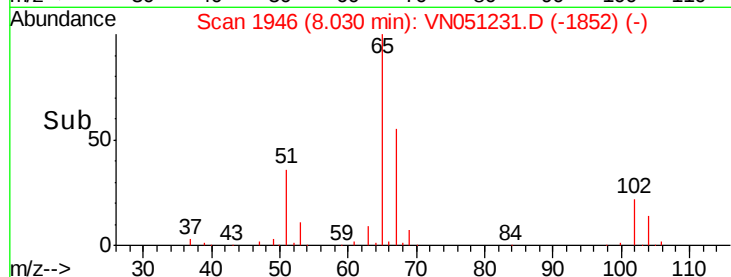
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

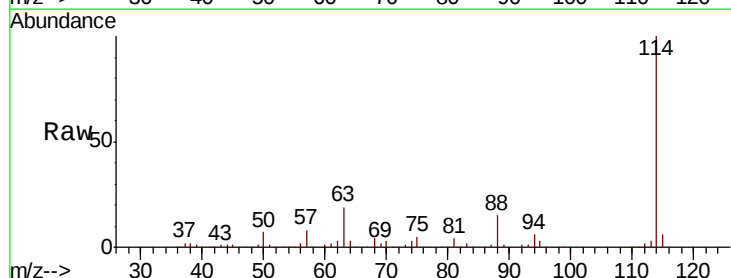
Tgt Ion: 114 Resp: 666370

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.8

88 15.1 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): VN051157.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN051157.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN051157.D (-2100) (-)

8.59

400000

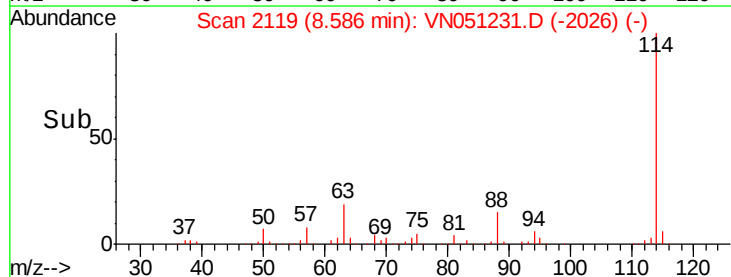
300000

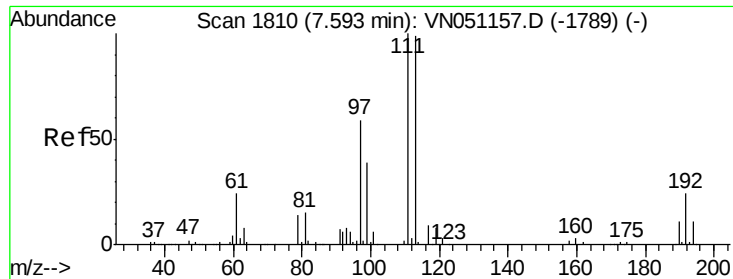
200000

100000

0

Time-->

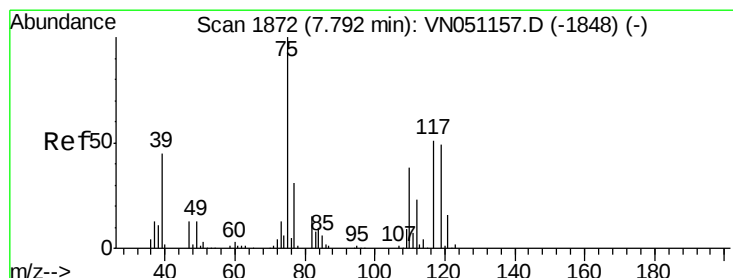
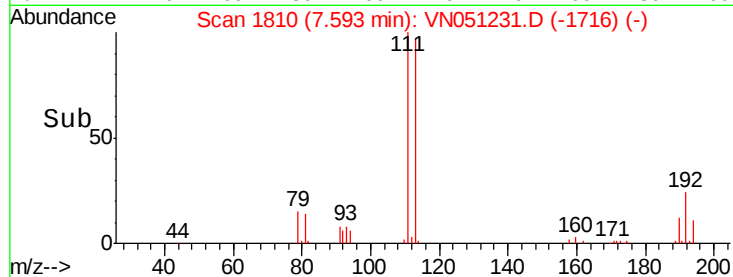
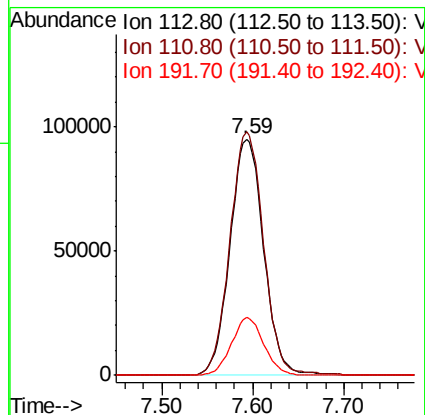
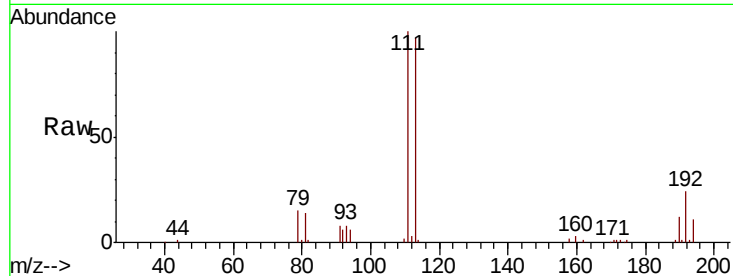




#35
 Dibromofluoromethane
 Concen: 48.82 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051231.D
 Acq: 15 Sep 2018 18:47

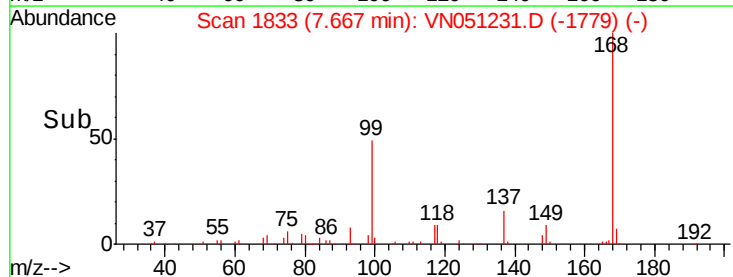
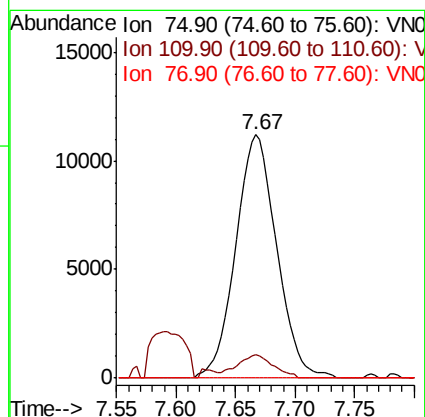
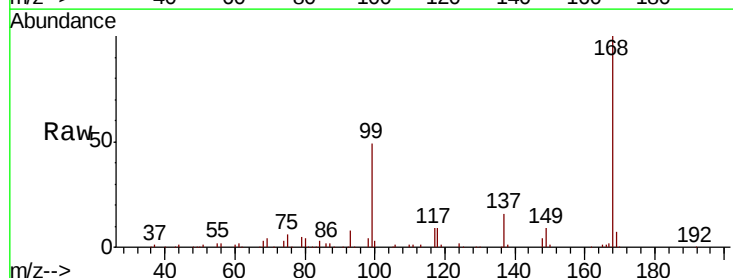
Instrument :
 MSVOA_N
 ClientSampleId :

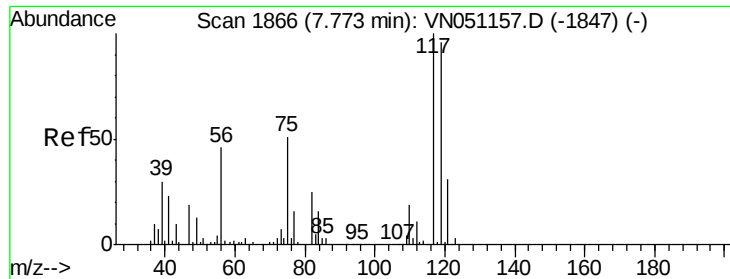
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.0	124.6
192	23.5	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 3.65 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051231.D
 Acq: 15 Sep 2018 18:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.6	55.8#
77	0.0	25.2	37.8#

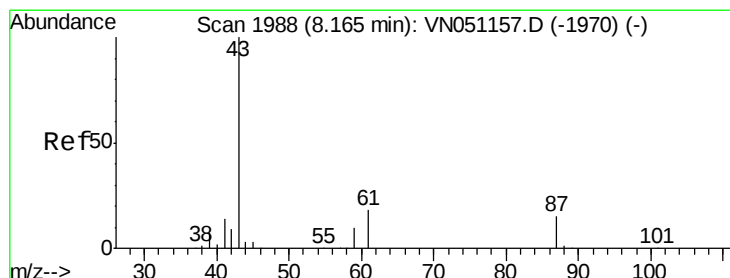
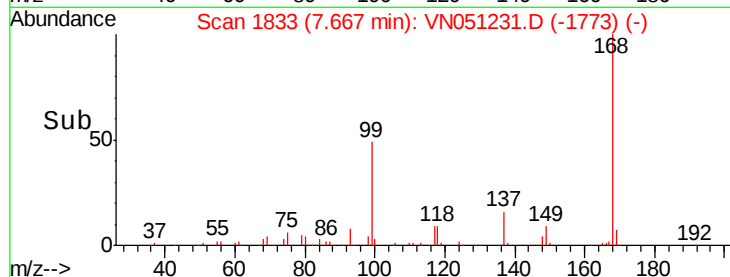
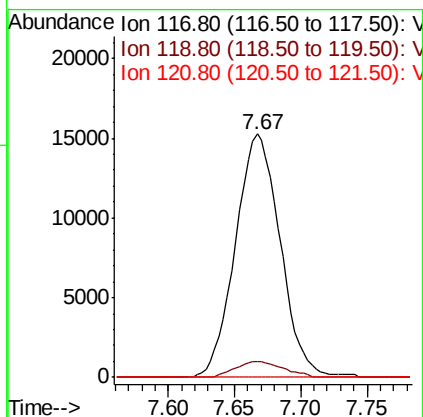
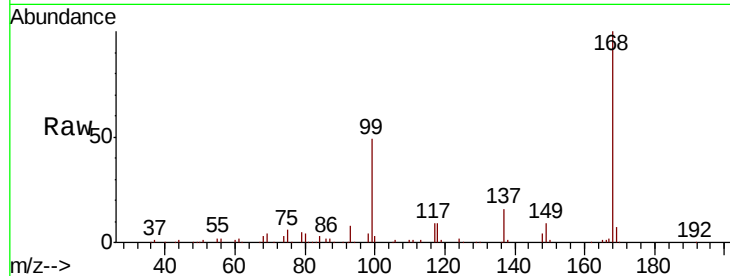




#38
Carbon Tetrachloride
Concen: 4.97 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

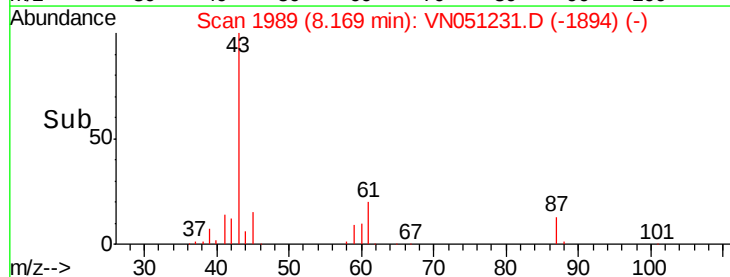
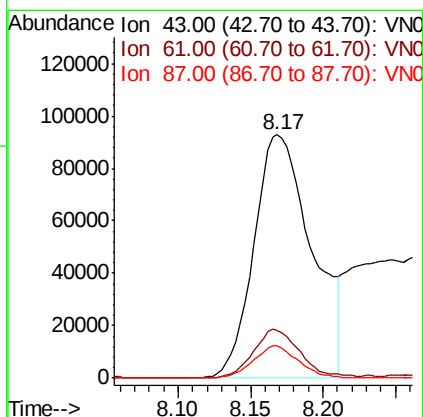
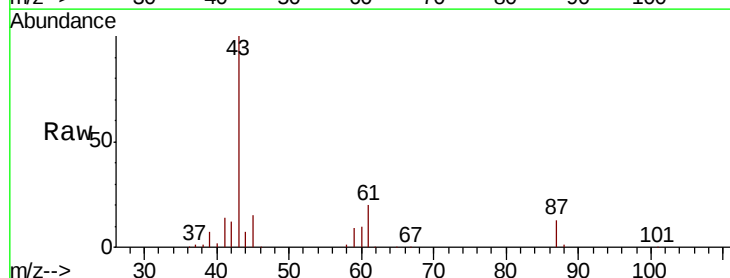
Instrument :
MSVOA_N
ClientSampleId :

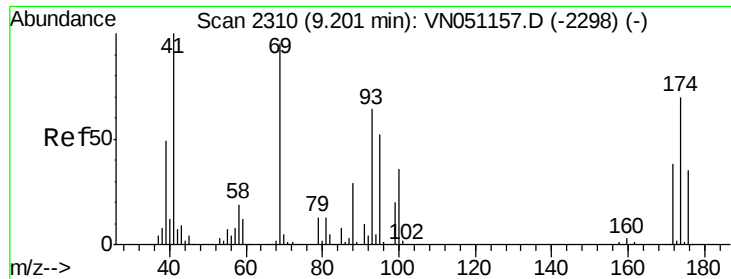
Tot Ion:117 Resp: 35818
Ion Ratio Lower Upper
117 100
119 6.6 76.8 115.2#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 34.60 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

Tgt Ion: 43 Resp: 258660
Ion Ratio Lower Upper
43 100
61 16.3 25.0 37.6#
87 10.4 11.8 17.8#

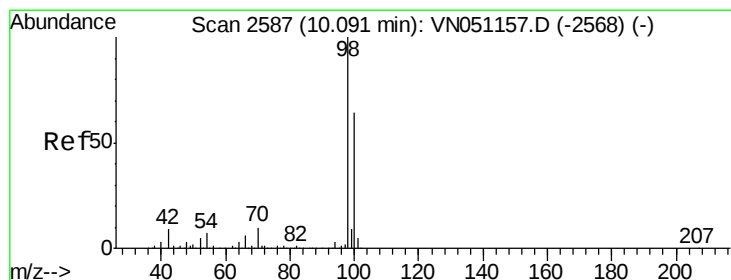
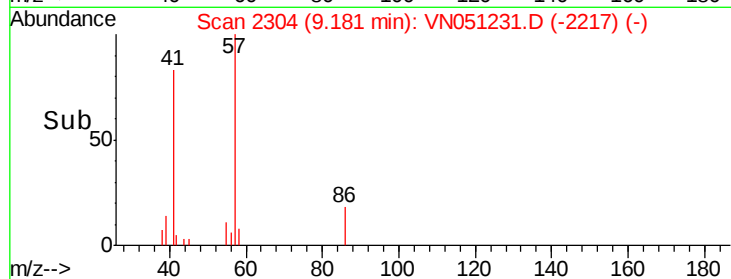
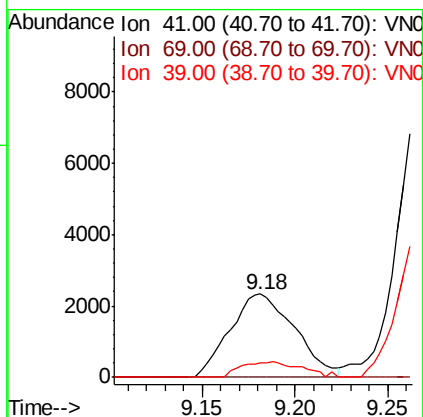
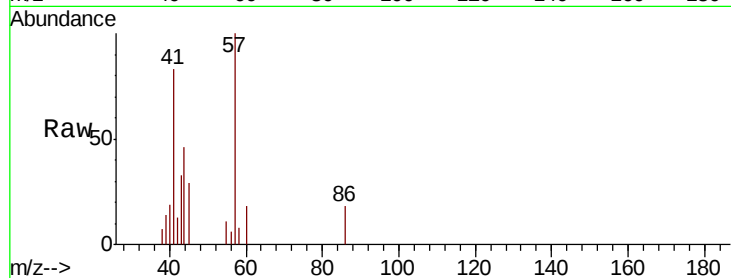




#48
Methvl methacrylate
Concen: 1.57 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

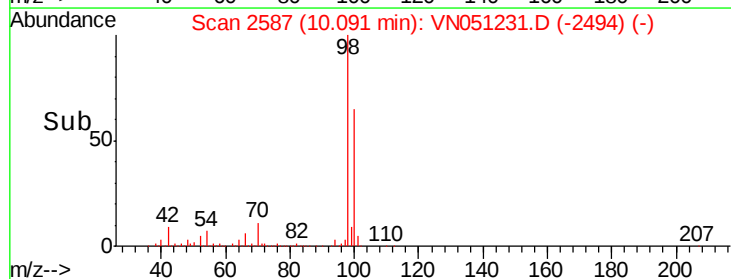
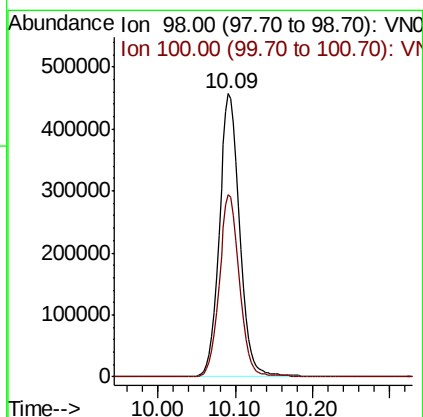
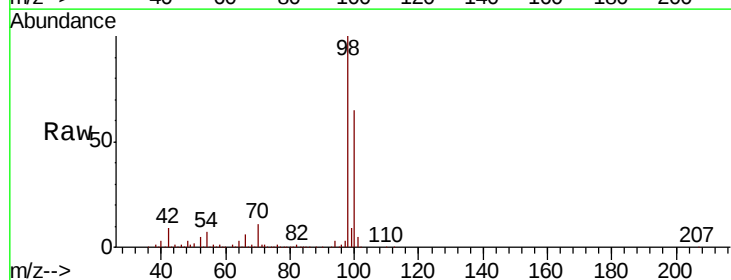
Instrument :
MSVOA_N
ClientSampled :

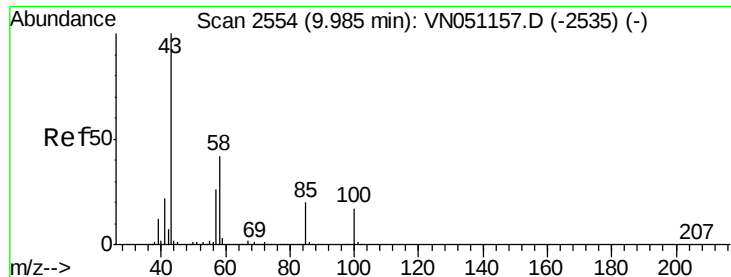
Tot Ion: 41 Resp: 5716
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 17.4 41.6 62.4#



#50
Toluene-d8
Concen: 44.31 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

Tgt Ion: 98 Resp: 842020
Ion Ratio Lower Upper
98 100
100 63.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.38 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

Instrument :

MSVOA_N

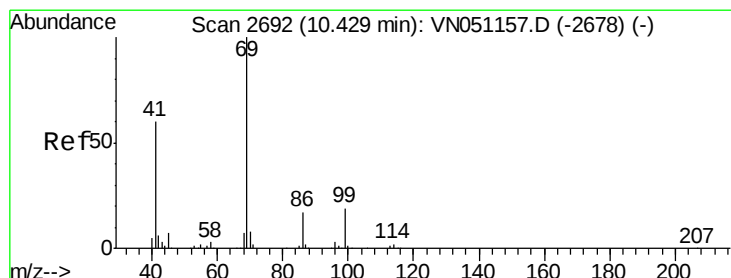
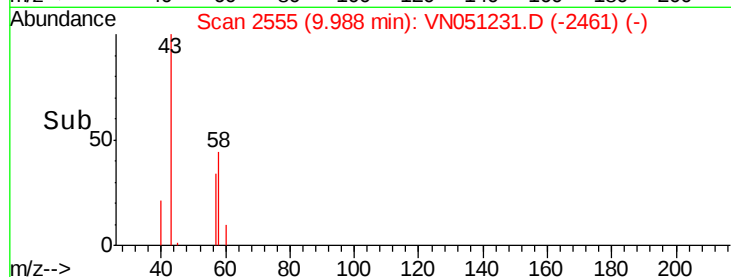
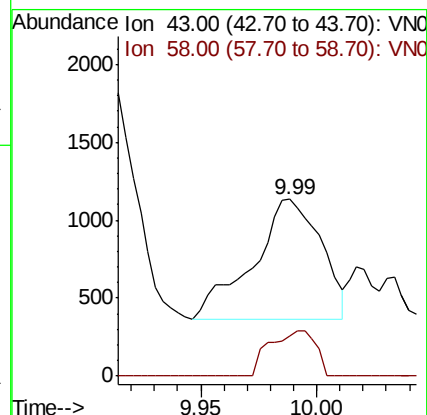
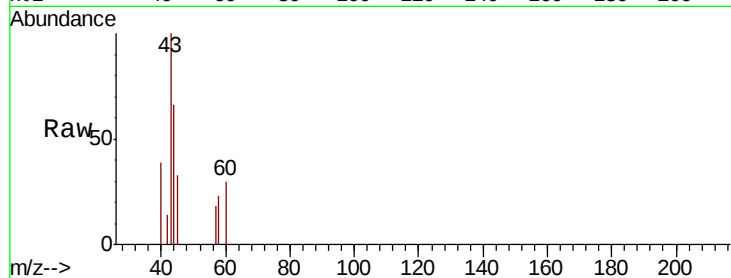
ClientSampled :

Tot Ion: 43 Resp: 1580

Ion Ratio Lower Upper

43 100

58 25.6 33.5 50.3#



#56

Ethyl methacrylate

Concen: 2.48 ug/l

RT: 10.29 min Scan# 2648

Delta R.T. -0.14 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

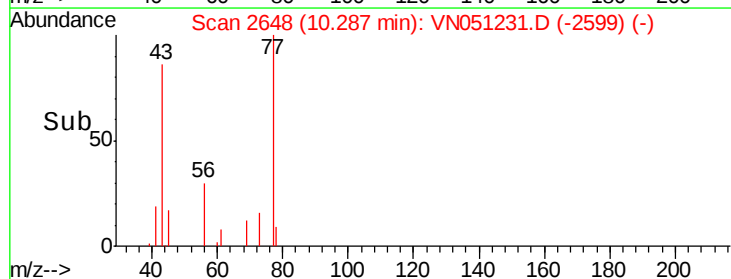
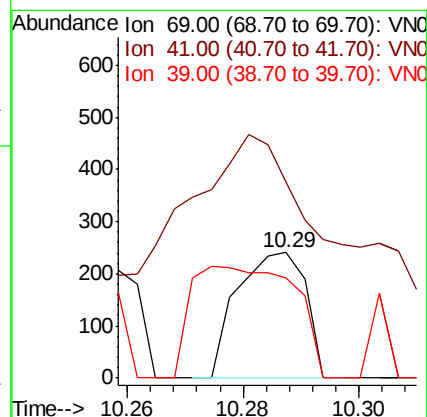
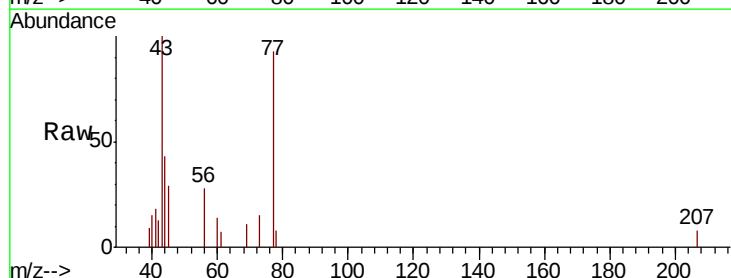
Tgt Ion: 69 Resp: 196

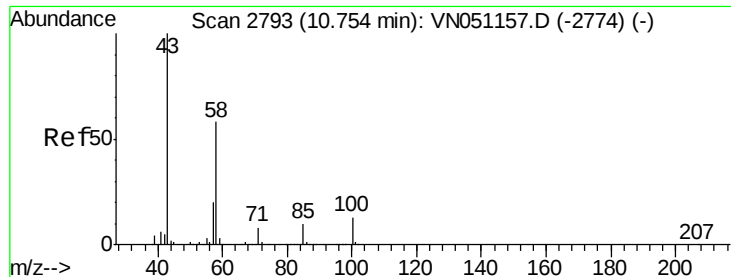
Ion Ratio Lower Upper

69 100

41 505.6 47.8 71.8#

39 135.2 23.0 34.4#





#59

2-Hexanone

Concen: 4.65 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

Instrument :

MSVOA_N

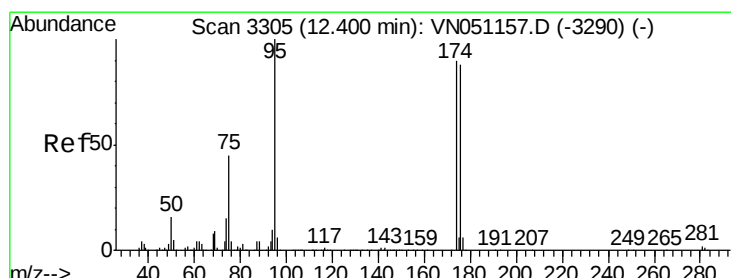
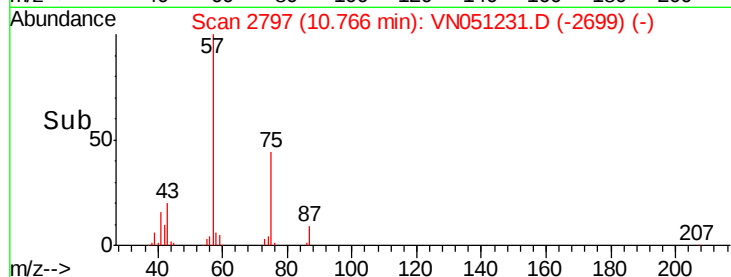
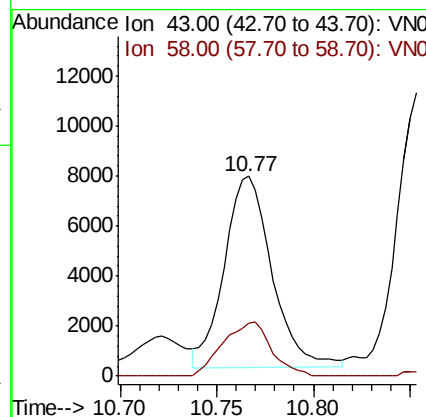
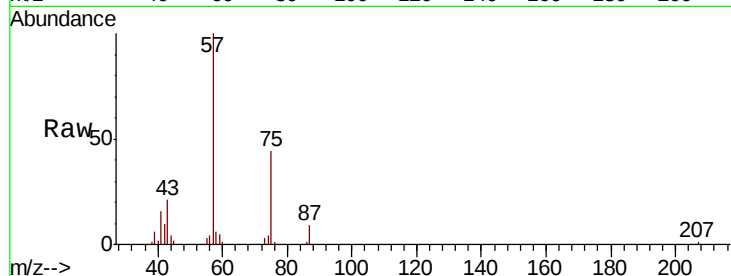
ClientSampleId :

Tot Ion: 43 Resp: 13049

Ion Ratio Lower Upper

43 100

58 28.8 29.3 88.0#



#62

4-Bromofluorobenzene

Concen: 35.90 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

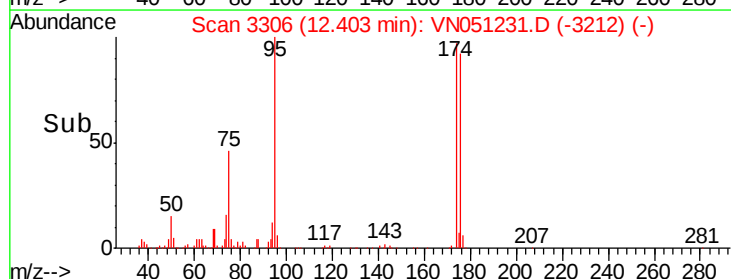
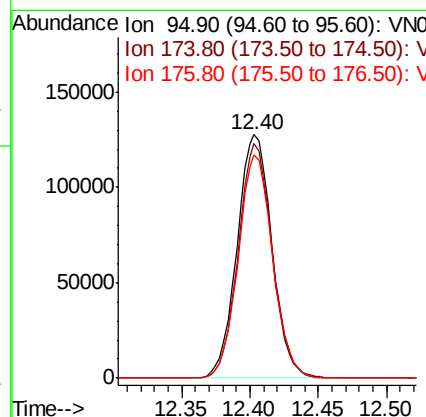
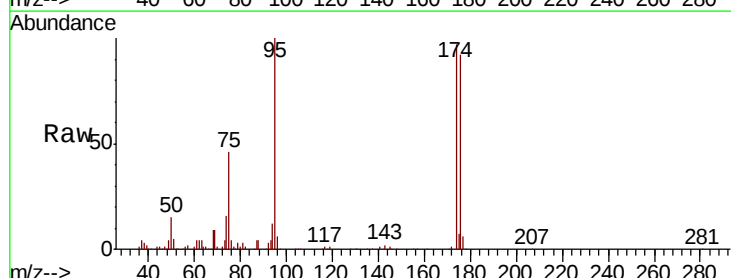
Tgt Ion: 95 Resp: 225620

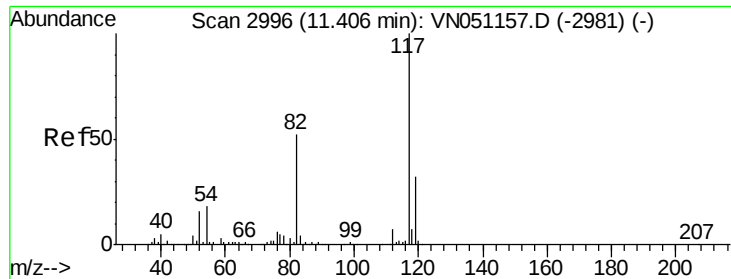
Ion Ratio Lower Upper

95 100

174 94.5 0.0 184.8

176 90.4 0.0 178.6

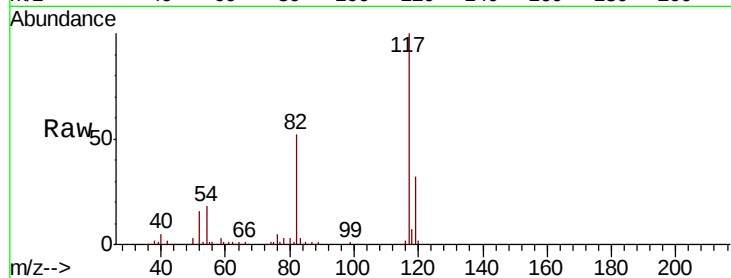




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.8	41.8	62.6
119	32.4	26.2	39.2

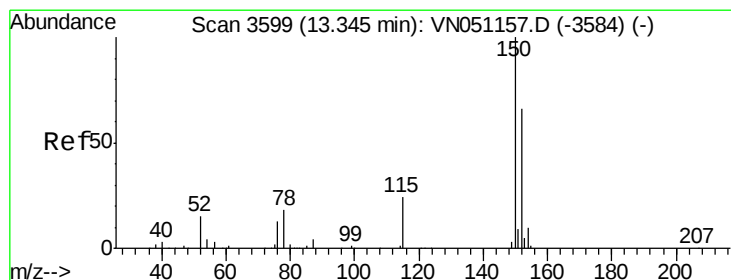
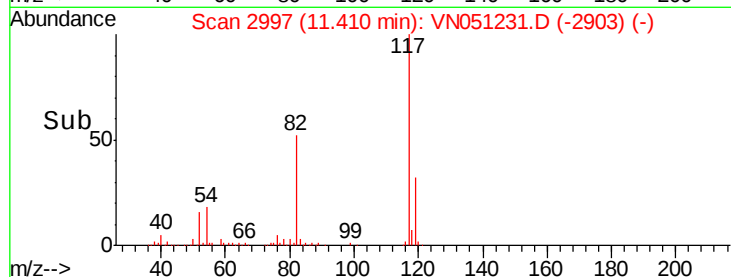
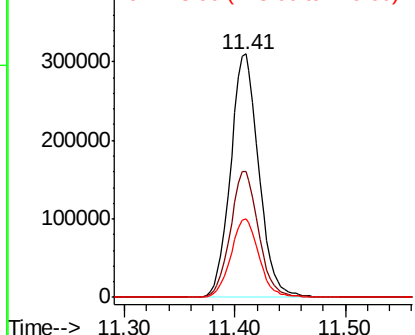


Abundance

Ion 116.90 (116.60 to 117.60): V

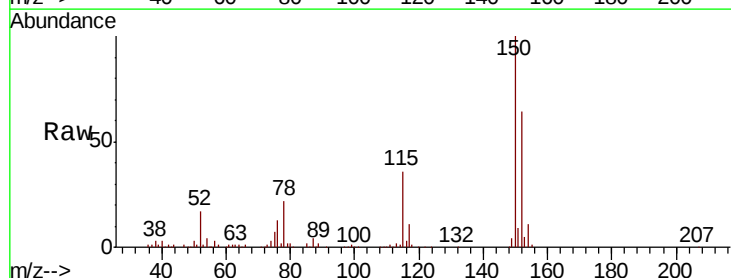
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051231.D
Acq: 15 Sep 2018 18:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.2	84.7
150	156.8	0.0	349.0

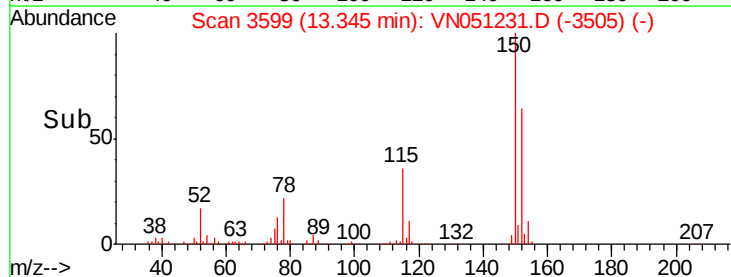
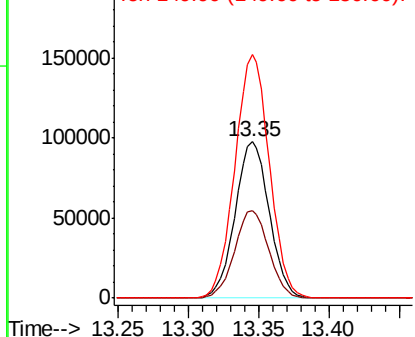


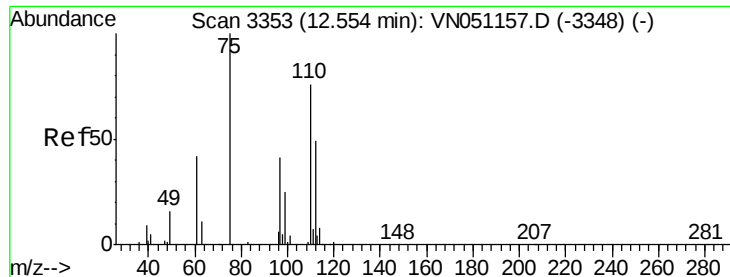
Abundance

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: 39.83 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

Instrument :

MSVOA_N

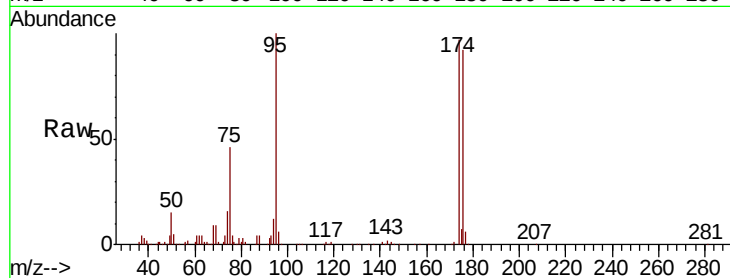
ClientSampleId :

Tot Ion: 75 Resp: 103135

Ion Ratio Lower Upper

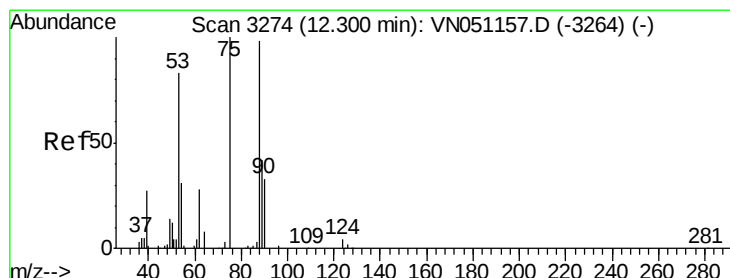
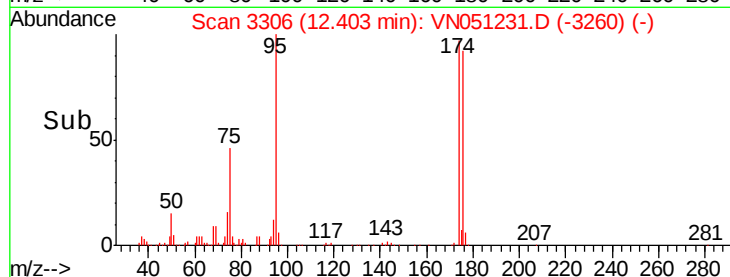
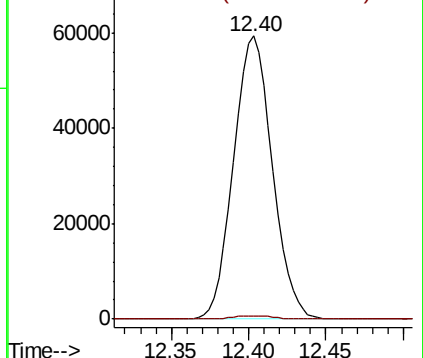
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 118.18 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051231.D

Acq: 15 Sep 2018 18:47

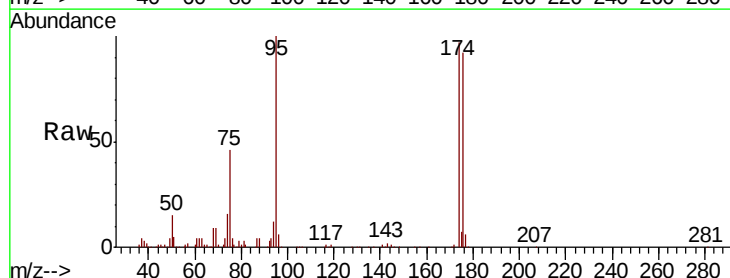
Tgt Ion: 75 Resp: 103135

Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

89 0.0 36.0 54.0#



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

