

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051326.D
 Acq On : 19 Sep 2018 18:07
 Operator : MD\SY
 Sample : J4979-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:45:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 18 06:04:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	517796	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	802009	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	660097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	216906	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	292750	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
35) Dibromofluoromethane	7.59	113	305244	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
50) Toluene-d8	10.09	98	1062352	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	
62) 4-Bromofluorobenzene	12.40	95	283991	38.76	ug/l	0.00
Spiked Amount			Recovery	=	77.52%	

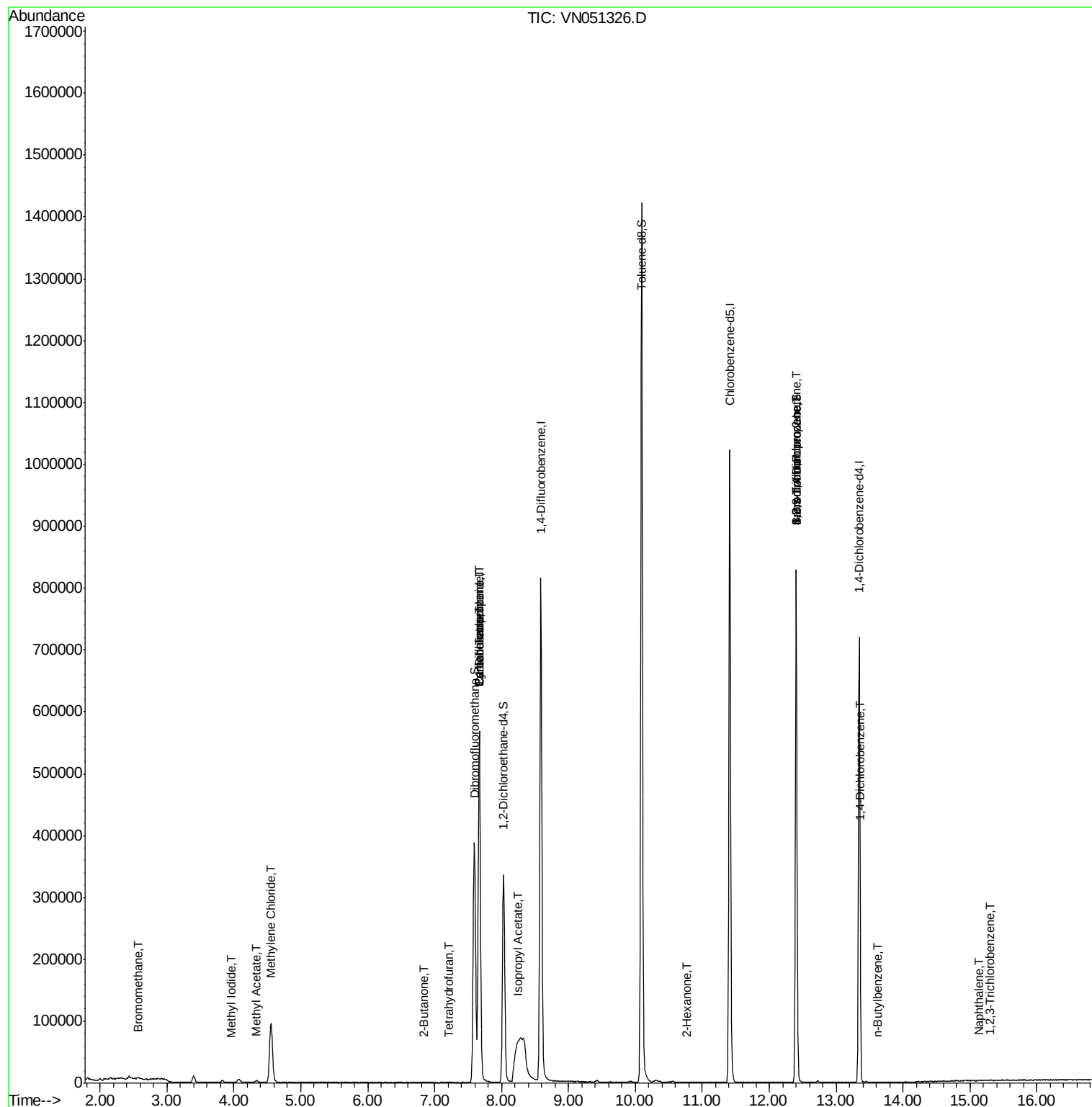
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2014	Below Cal		97
5) Bromomethane	2.57	94	1651	0.94 ug/l		89
10) Methyl Iodide	3.96	142	487	6.18 ug/l #		43
16) Acetone	3.82	43	5942	Below Cal #		82
17) Carbon Disulfide	4.04	76	854	Below Cal #		75
18) Methyl Acetate	4.34	43	6329	0.92 ug/l		92
20) Methylene Chloride	4.55	84	79946	12.98 ug/l		99
25) 2-Butanone	6.84	43	386	0.21 ug/l #		45
29) Tetrahydrofuran	7.22	42	598	0.54 ug/l #		69
31) Cyclohexane	7.67	56	7477	0.76 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	32372	3.73 ug/l #		44
38) Carbon Tetrachloride	7.67	117	42987	4.75 ug/l #		18
43) Isopropyl Acetate	8.24	43	74936	9.70 ug/l #		59
59) 2-Hexanone	10.76	43	714	0.27 ug/l #		34
71) Bromoform	12.40	173	1127	0.27 ug/l #		1
75) 1,1,2,2-Tetrachloroethane	12.40	83	30	Below Cal #		1
76) 1,2,3-Trichloropropane	12.40	75	129319	43.24 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	129319	132.42 ug/l #		15
88) 1,4-Dichlorobenzene	13.37	146	303	0.45 ug/l #		26
89) n-Butylbenzene	13.62	91	202	2.03 ug/l #		34
91) 1,2-Dichlorobenzene	13.65	146	154	Below Cal #		25
95) Naphthalene	15.14	128	493	5.99 ug/l #		69
96) 1,2,3-Trichlorobenzene	15.31	180	176	3.91 ug/l #		55

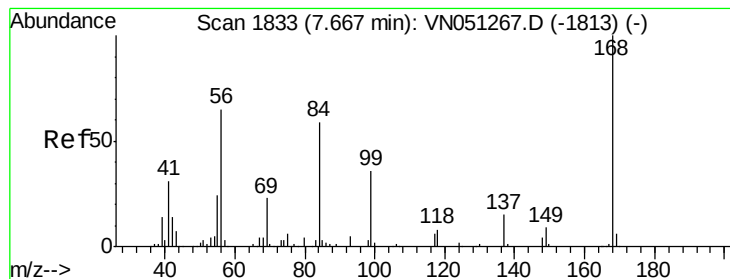
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

Instrument :

MSVOA_N

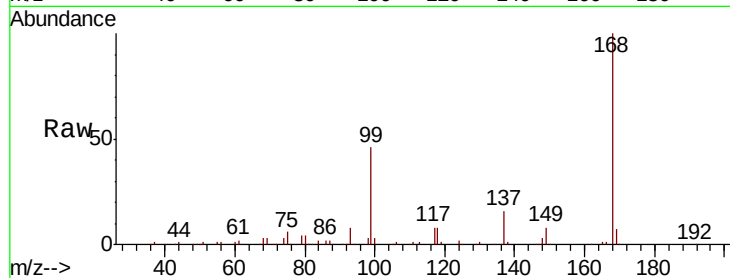
ClientSampled :

Tot Ion:168 Resp: 517796

Ion Ratio Lower Upper

168 100

99 45.7 38.2 57.4



Abundance Ion 167.90 (167.60 to 168.60): VN051326.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051326.D (-1740) (-)

7.67

250000

200000

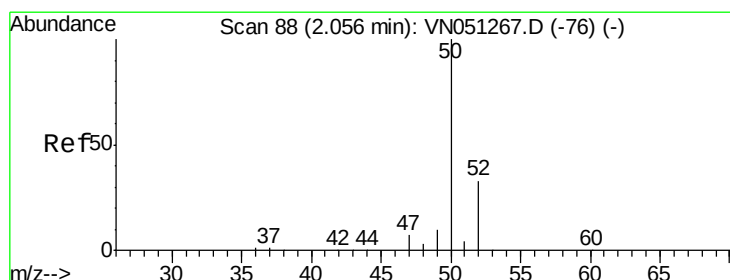
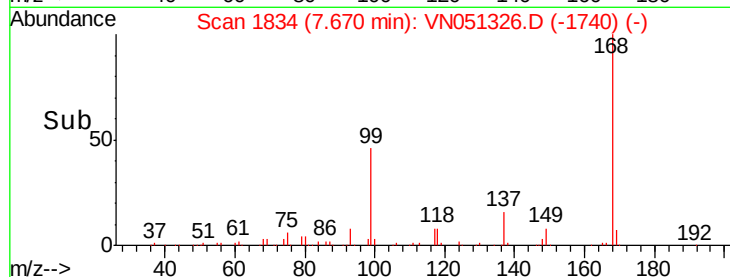
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051326.D

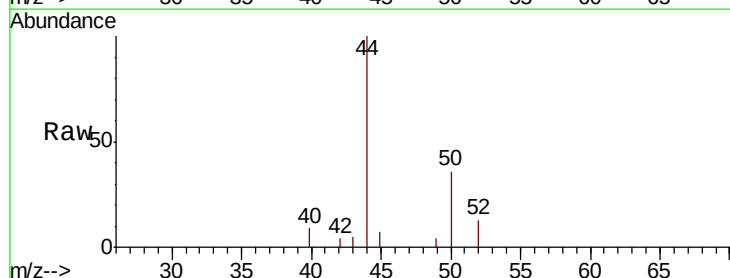
Acq: 19 Sep 2018 18:07

Tgt Ion: 50 Resp: 2014

Ion Ratio Lower Upper

50 100

52 35.0 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VN051326.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN051326.D (-1) (-)

2.06

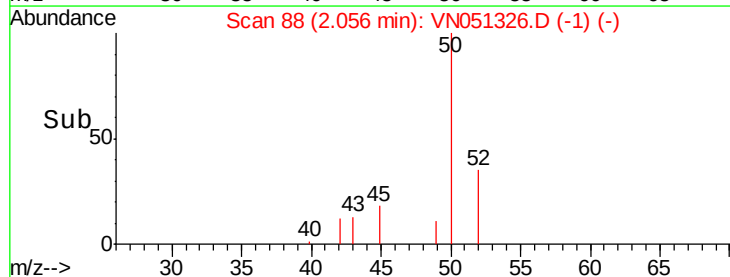
1500

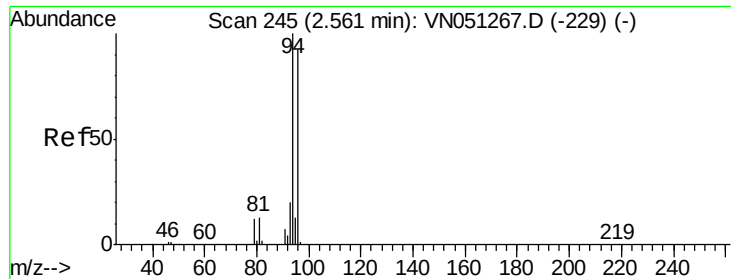
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.94 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

Instrument :

MSVOA_N

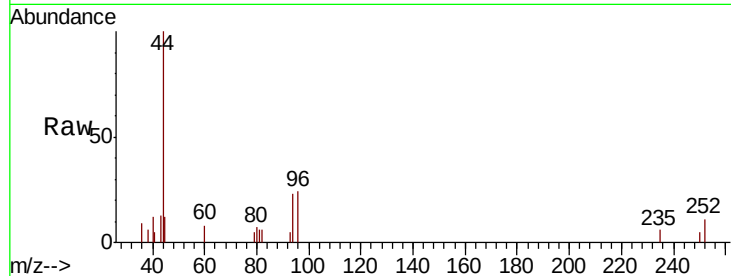
ClientSampled :

Tot Ion: 94 Resp: 1651

Ion Ratio Lower Upper

94 100

96 103.3 73.8 110.8



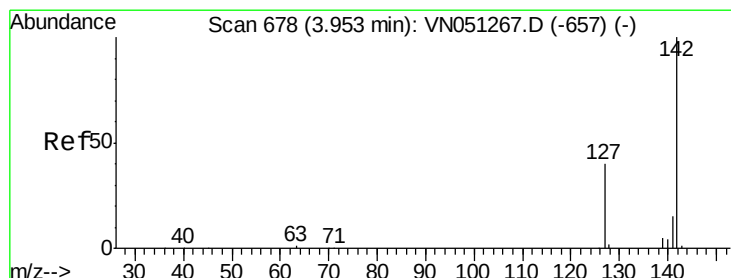
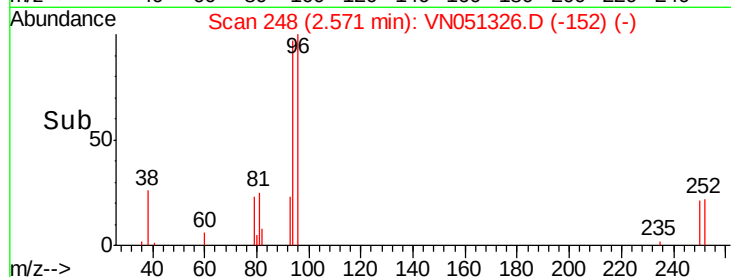
Abundance Ion 93.90 (93.60 to 94.60): VN051326.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VN051326.D (-152) (-)

2.57

2.55 2.60

Time-->



#10

Methyl Iodide

Concen: 6.18 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

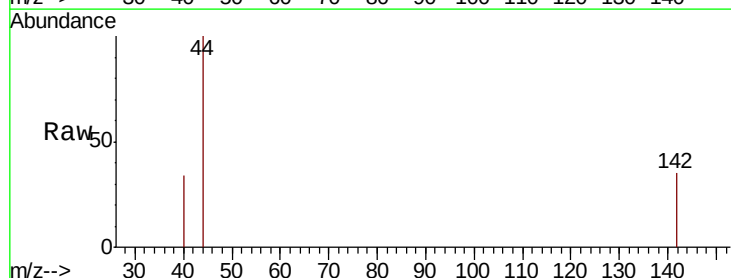
Tgt Ion: 142 Resp: 487

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VN051326.D (-585) (-)

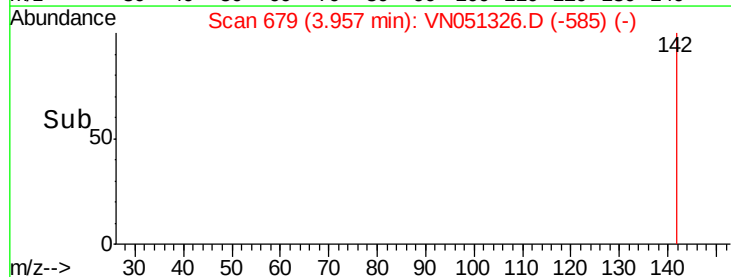
Ion 126.80 (126.50 to 127.50): VN051326.D (-585) (-)

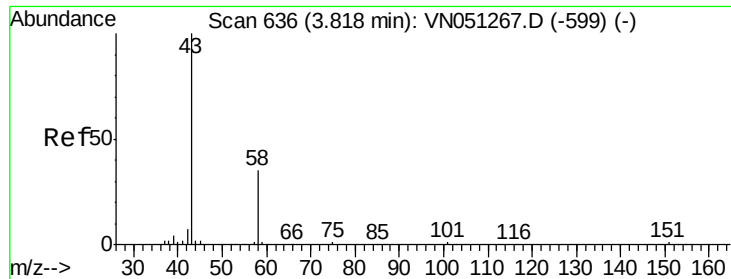
Ion 140.80 (140.50 to 141.50): VN051326.D (-585) (-)

3.96

3.92 3.94 3.98

Time-->

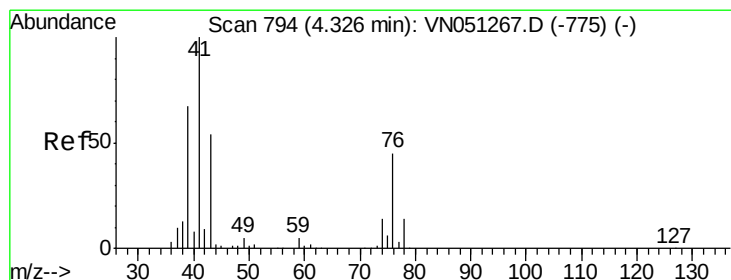
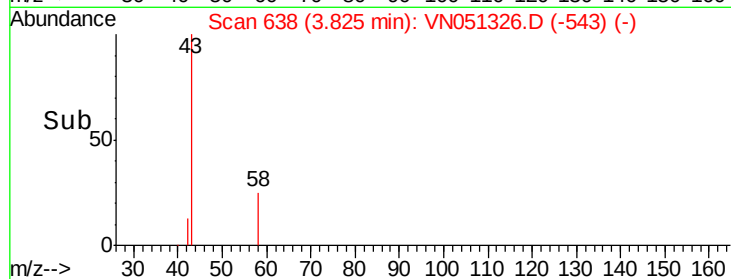
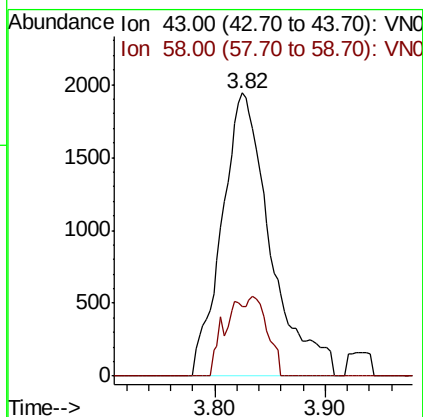
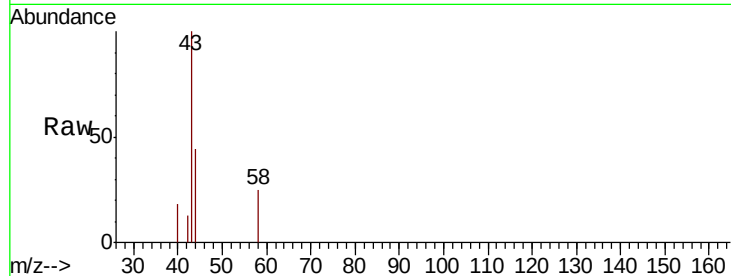




#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

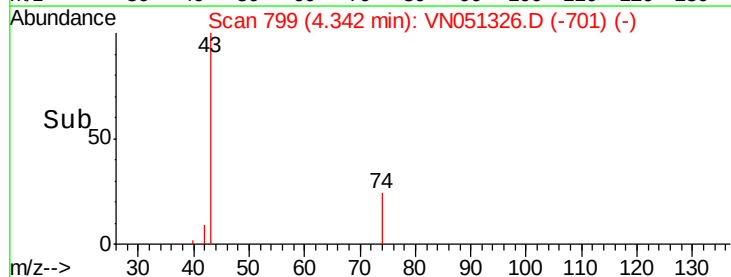
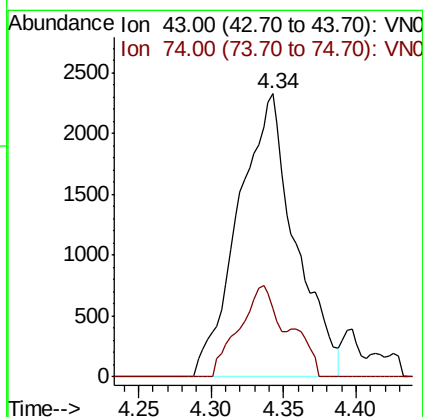
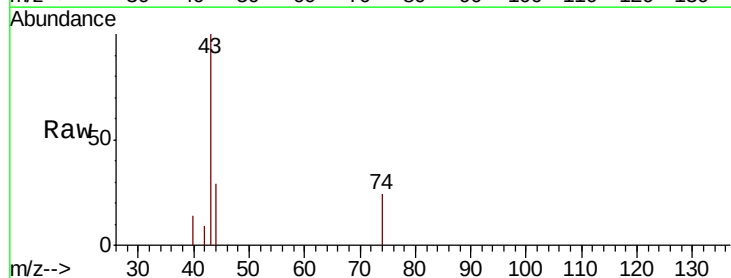
Instrument :
MSVOA_N
ClientSampled :

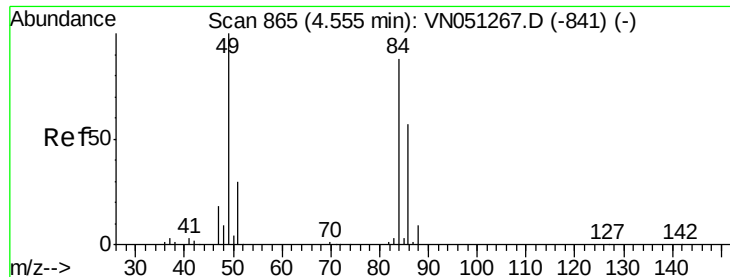
Tot Ion: 43 Resp: 5942
Ion Ratio Lower Upper
43 100
58 24.5 28.2 42.2#



#18
Methyl Acetate
Concen: 0.92 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

Tgt Ion: 43 Resp: 6329
Ion Ratio Lower Upper
43 100
74 22.1 20.8 31.2

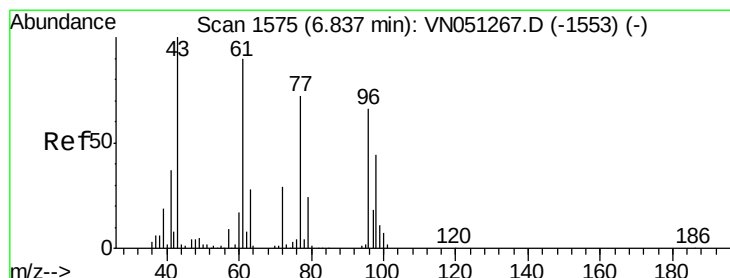
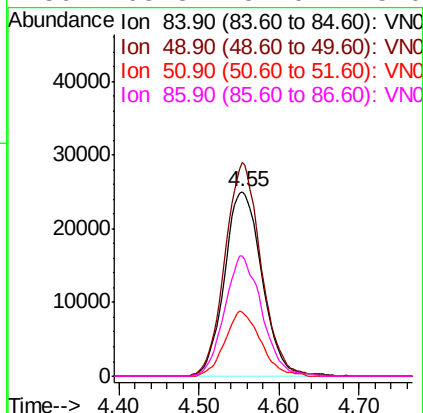
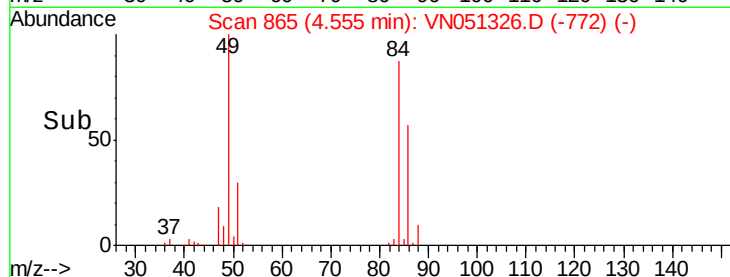
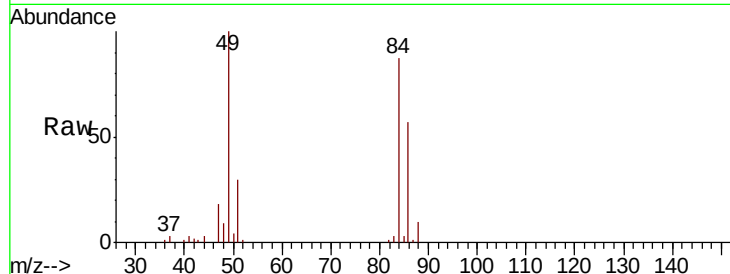




#20
Methvlene Chloride
Concen: 12.98 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

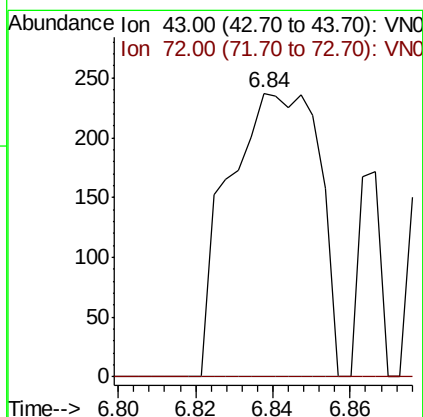
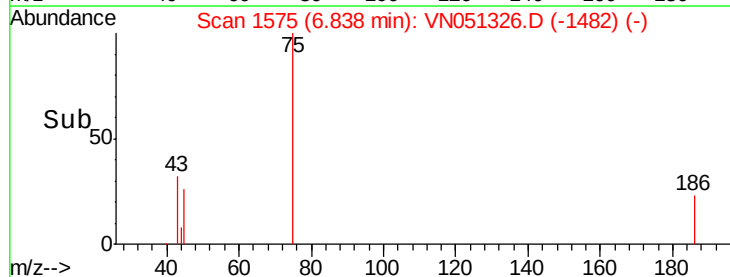
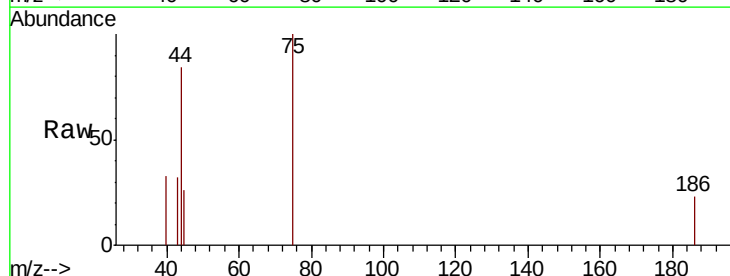
Instrument :
MSVOA_N
ClientSampled :

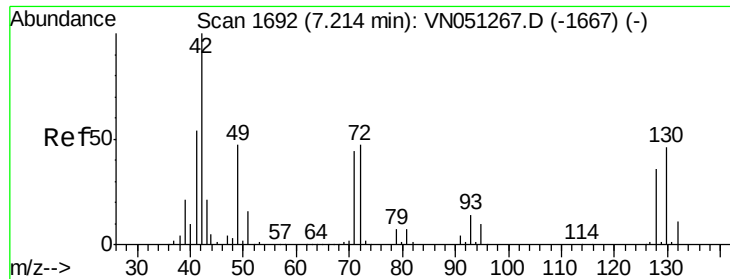
Tot Ion: 84 Resp: 79946
Ion Ratio Lower Upper
84 100
49 115.6 91.2 136.8
51 34.7 27.7 41.5
86 65.3 52.0 78.0



#25
2-Butanone
Concen: 0.21 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

Tgt Ion: 43 Resp: 386
Ion Ratio Lower Upper
43 100
72 0.0 23.4 35.0#

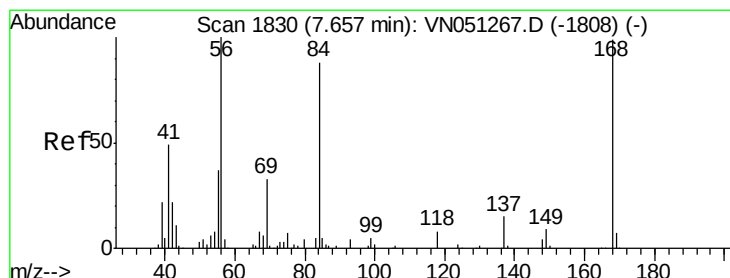
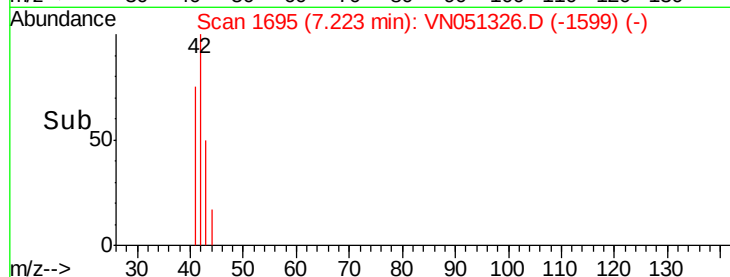
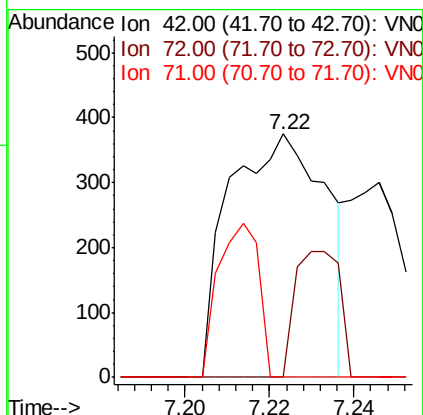
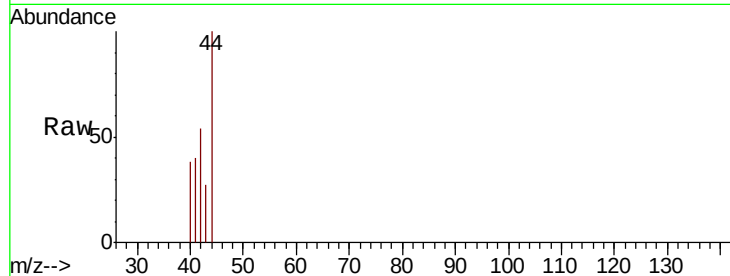




#29
Tetrahydrofuran
Concen: 0.54 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

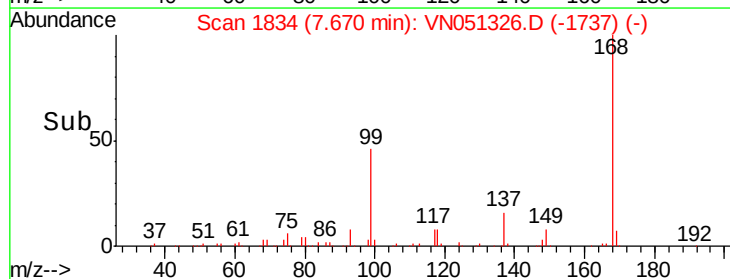
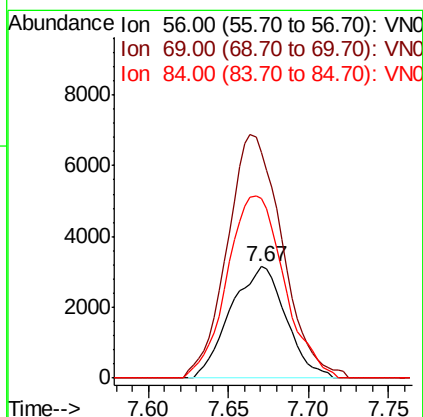
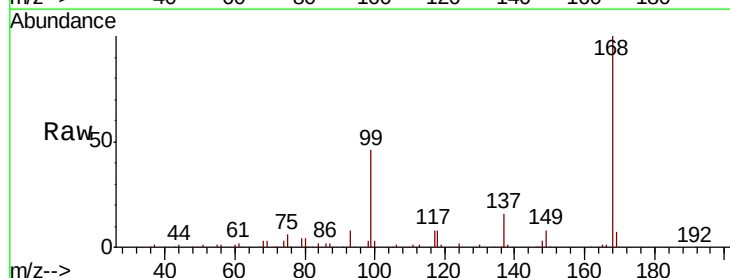
Instrument :
MSVOA_N
ClientSampled :

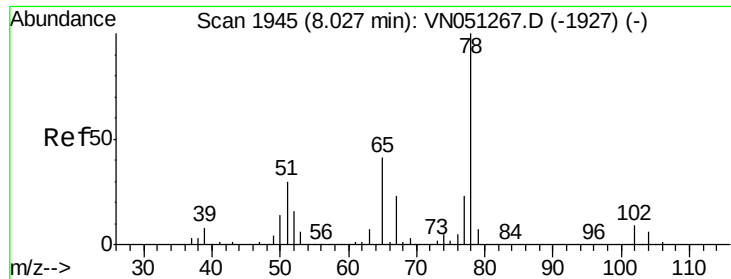
Tot Ion: 42 Resp: 598
Ion Ratio Lower Upper
42 100
72 23.7 37.6 56.4#
71 26.3 35.4 53.2#



#31
Cyclohexane
Concen: 0.76 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

Tgt Ion: 56 Resp: 7477
Ion Ratio Lower Upper
56 100
69 196.2 26.2 39.2#
84 161.5 70.6 106.0#

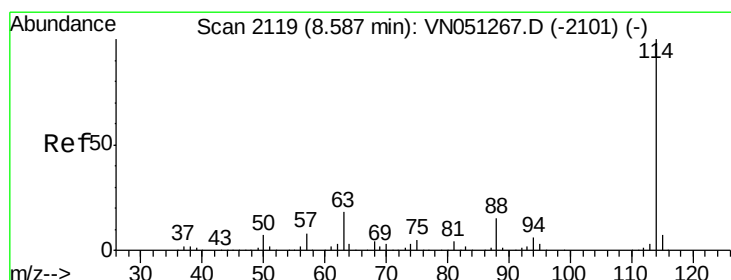
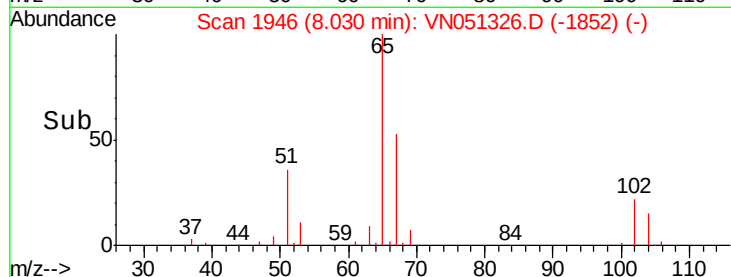
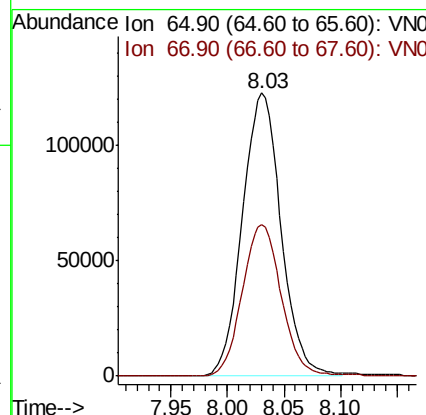
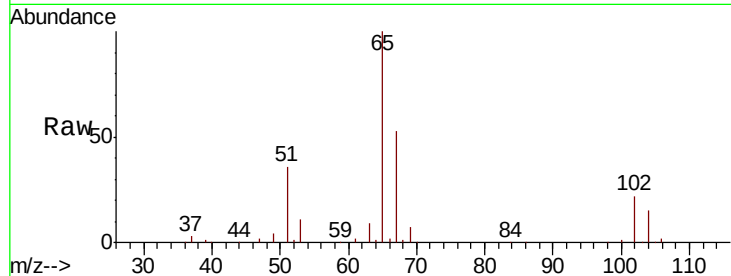




#33
 1,2-Dichloroethane-d4
 Concen: 52.02 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051326.D
 Acq: 19 Sep 2018 18:07

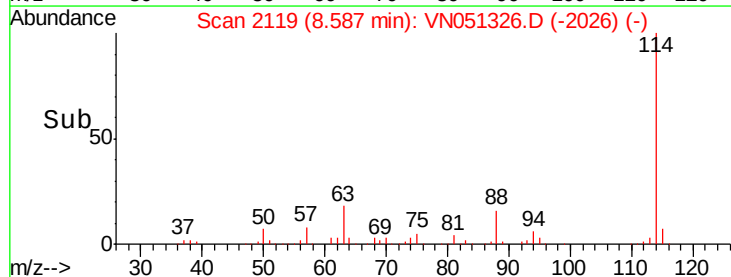
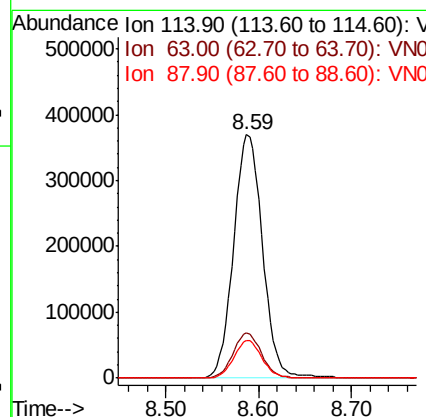
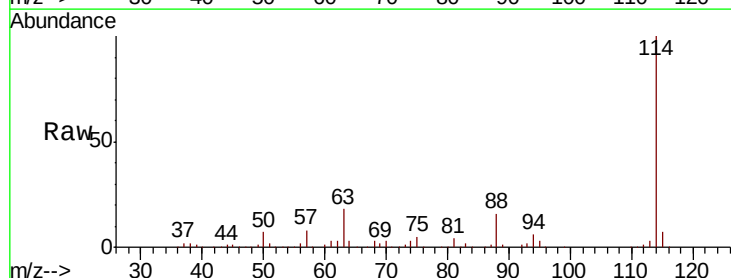
Instrument :
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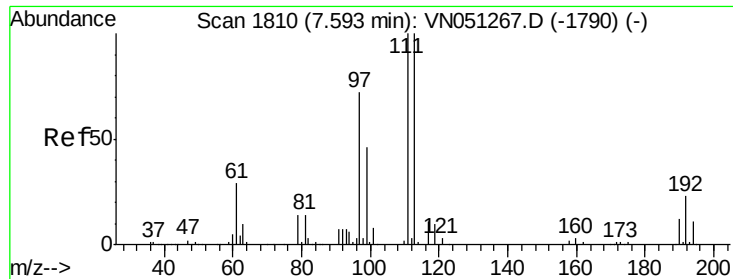
Tot Ion: 65 Resp: 292750
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051326.D
 Acq: 19 Sep 2018 18:07

Tgt Ion: 114 Resp: 802009
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 36.8
 88 15.5 0.0 30.8

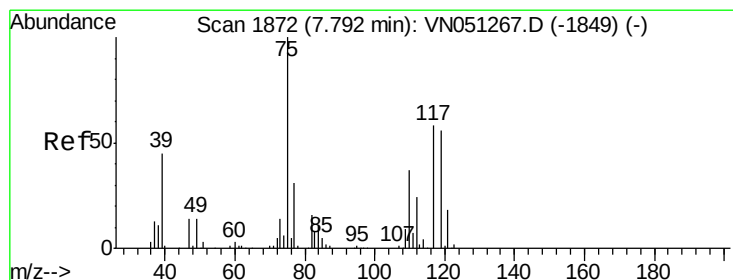
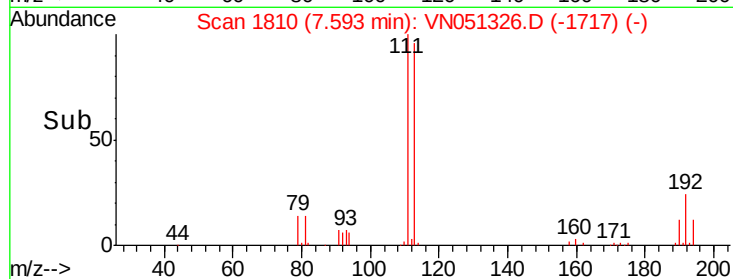
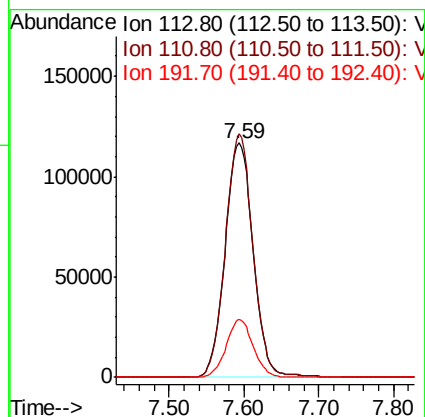
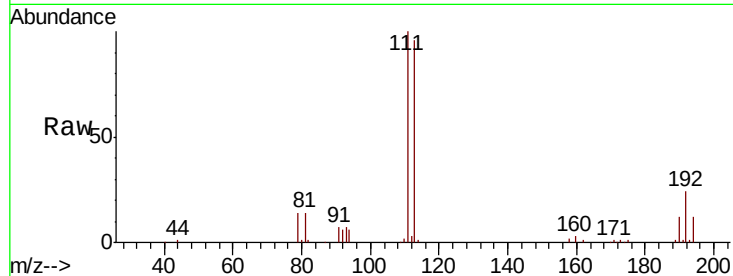




#35
 Dibromofluoromethane
 Concen: 48.98 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051326.D
 Acq: 19 Sep 2018 18:07

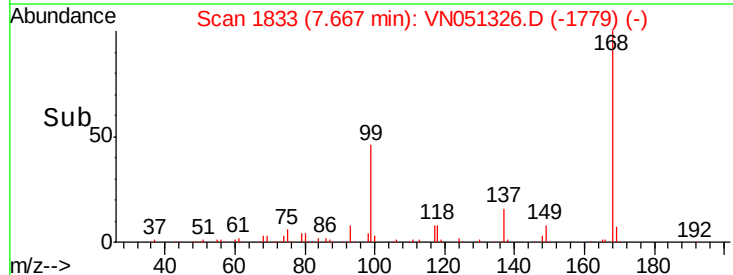
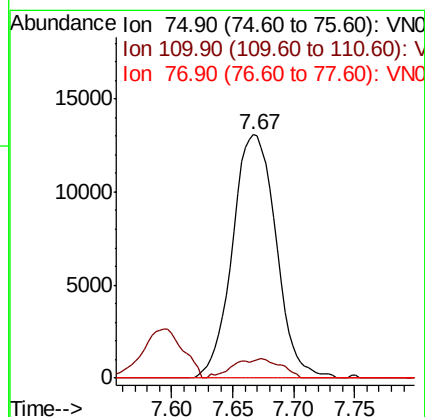
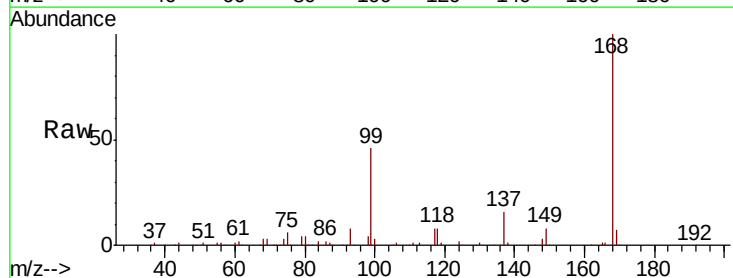
Instrument :
 MSVOA_N
 ClientSampleId :

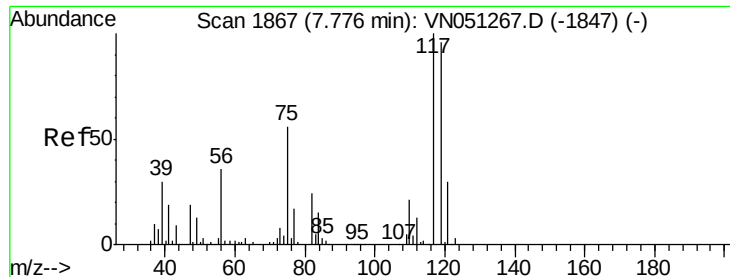
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.7	82.2	123.4
192	23.7	19.0	28.6



#36
 1,1-Dichloropropene
 Concen: 3.73 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051326.D
 Acq: 19 Sep 2018 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.7	18.6	56.0#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 4.75 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

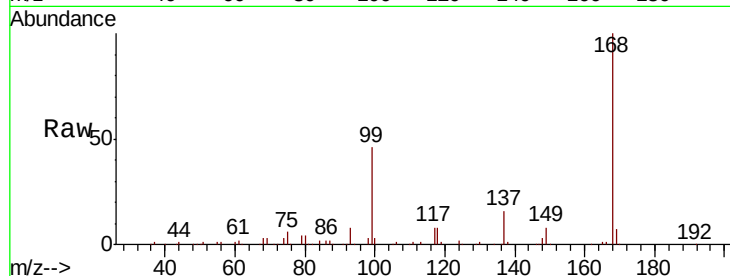
Tot Ion:117 Resp: 42987

Ion Ratio Lower Upper

117 100

119 7.3 76.8 115.2#

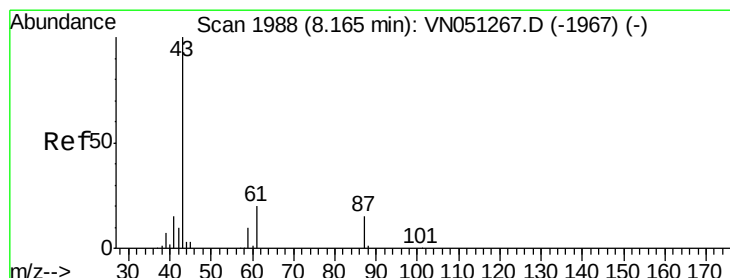
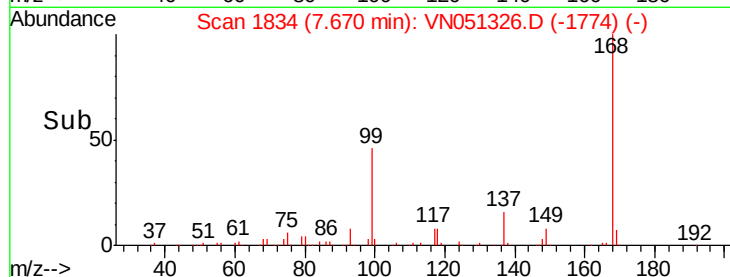
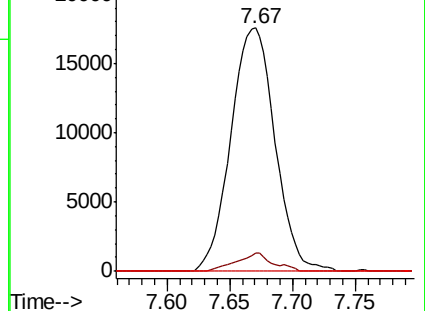
121 0.0 24.2 36.2#



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: 9.70 ug/l

RT: 8.24 min Scan# 2012

Delta R.T. 0.08 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

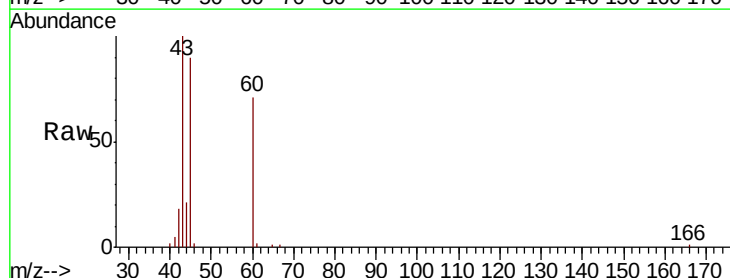
Tgt Ion: 43 Resp: 74936

Ion Ratio Lower Upper

43 100

61 0.5 17.4 26.2#

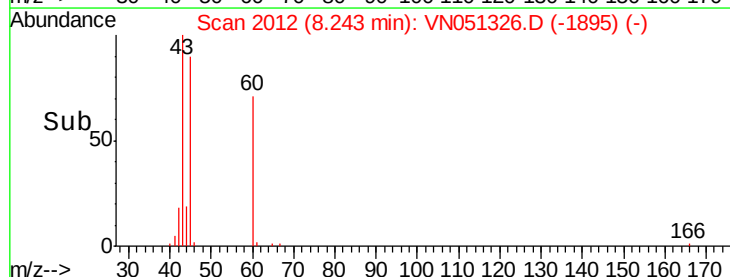
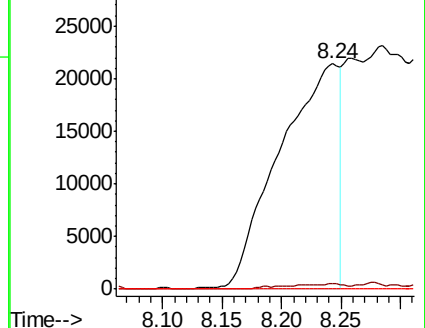
87 0.0 12.2 18.4#

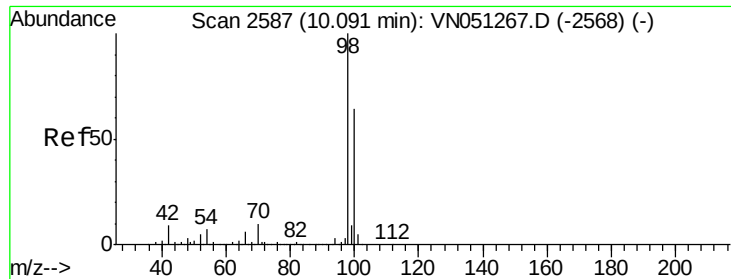


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 46.12 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

Instrument :

MSVOA_N

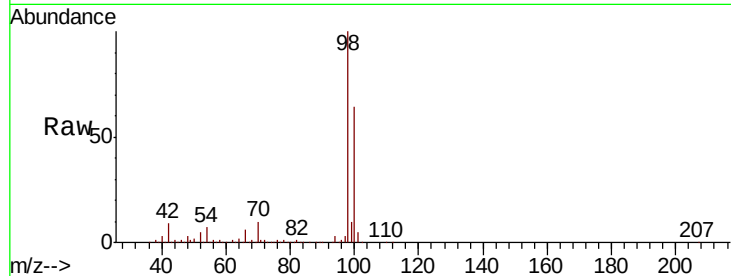
ClientSampleId :

Tot Ion: 98 Resp: 1062352

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN051267.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN051267.D (-2568) (-)

10.09

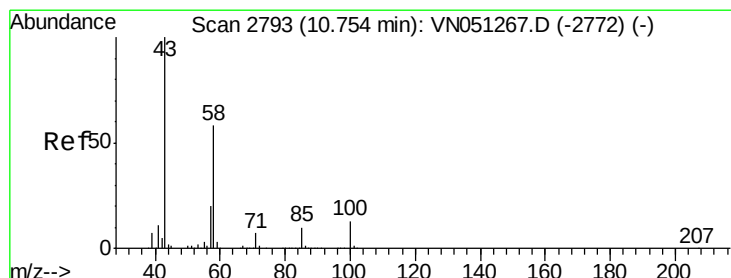
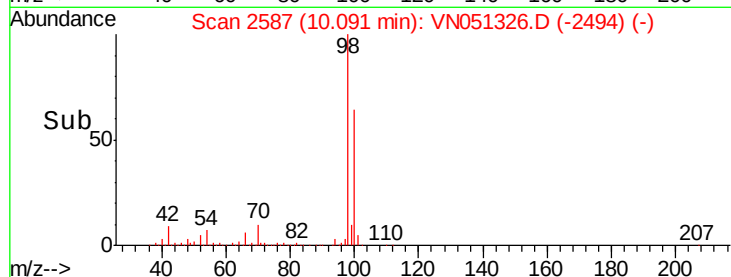
600000

400000

200000

0

Time-->



#59

2-Hexanone

Concen: 0.27 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051326.D

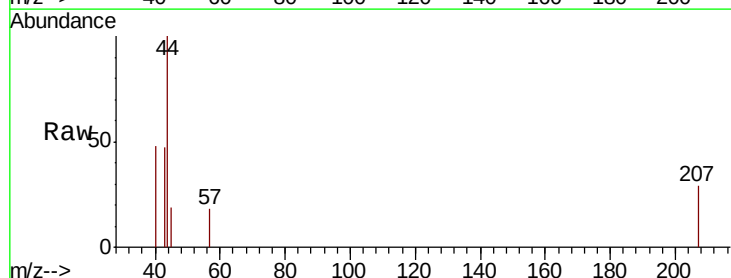
Acq: 19 Sep 2018 18:07

Tgt Ion: 43 Resp: 714

Ion Ratio Lower Upper

43 100

58 9.1 28.9 86.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051267.D (-2772) (-)

Ion 58.00 (57.70 to 58.70): VN051267.D (-2772) (-)

10.76

400

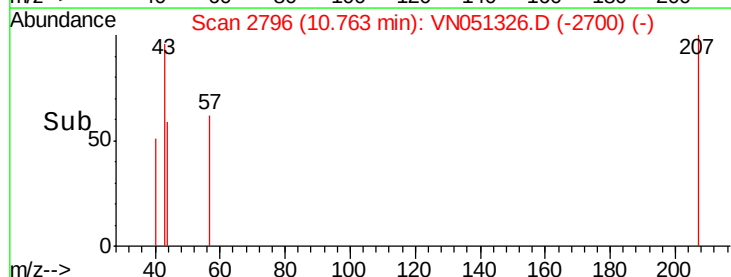
300

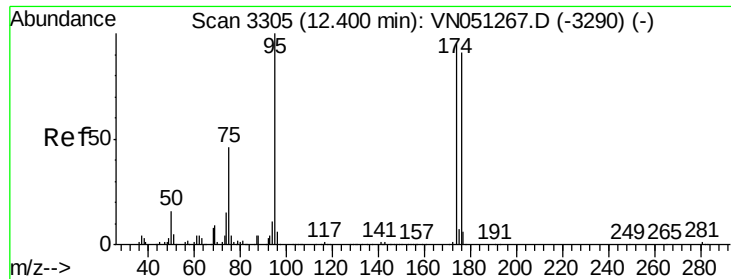
200

100

0

Time-->

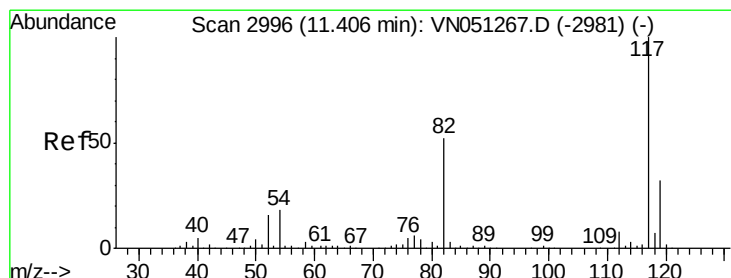
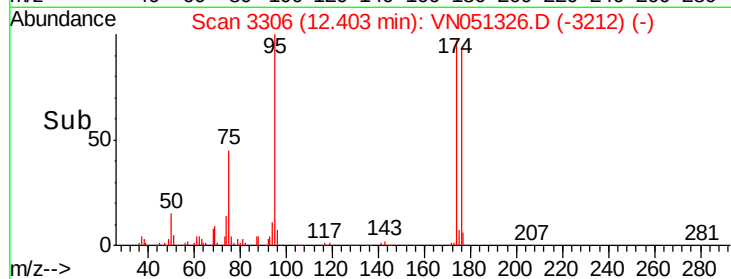
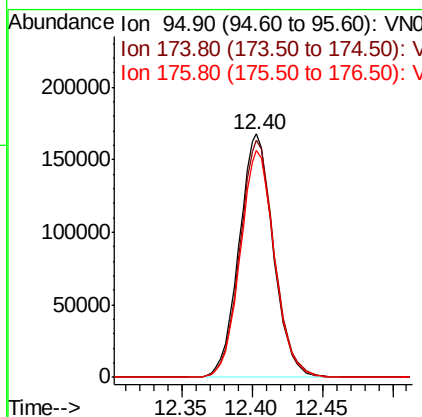
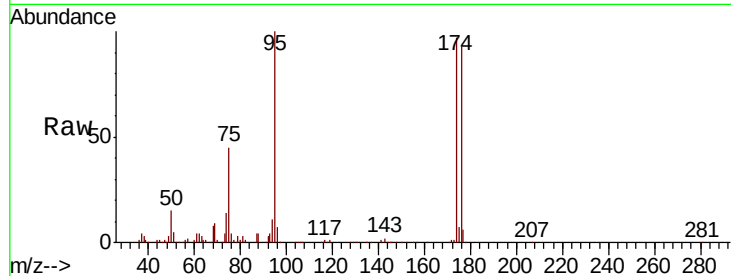




#62
4-Bromofluorobenzene
Concen: 38.76 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

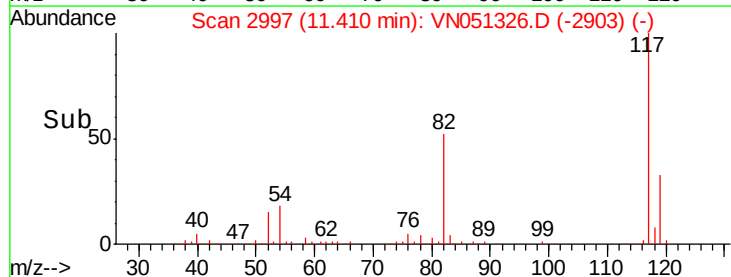
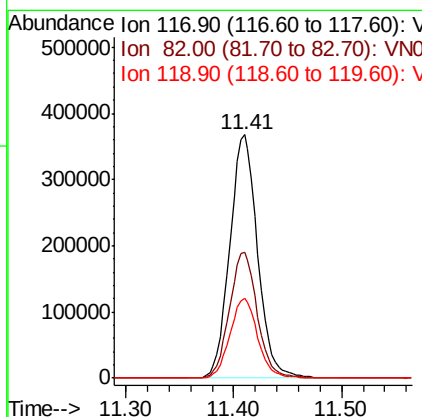
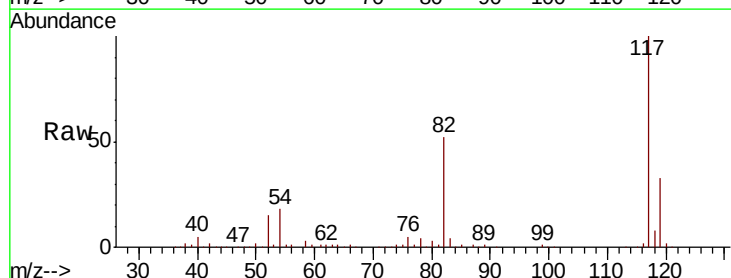
Instrument :
MSVOA_N
ClientSampled :

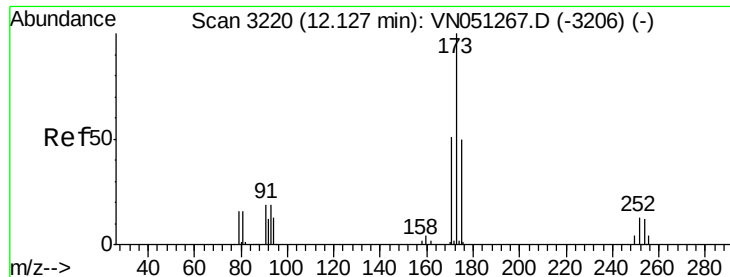
Tot Ion: 95 Resp: 283991
Ion Ratio Lower Upper
95 100
174 98.2 0.0 189.6
176 93.5 0.0 182.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

Tgt Ion: 117 Resp: 660097
Ion Ratio Lower Upper
117 100
82 51.6 41.8 62.8
119 32.6 25.6 38.4





#71

Bromoform

Concen: 0.27 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

Instrument :

MSVOA_N

ClientSampleId :

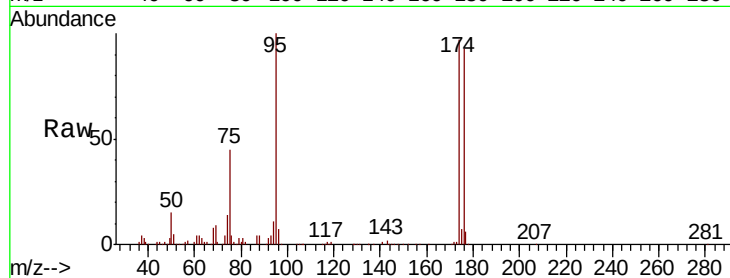
Tot Ion:173 Resp: 1127

Ion Ratio Lower Upper

173 100

175 1458.5 24.4 73.2#

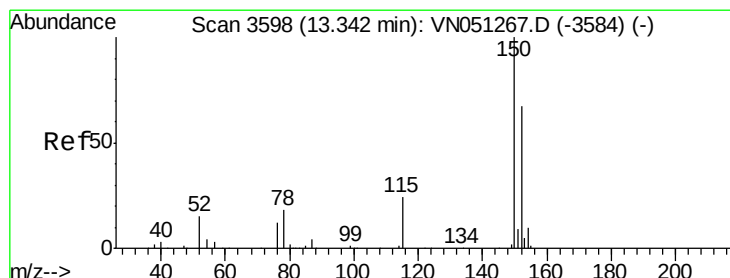
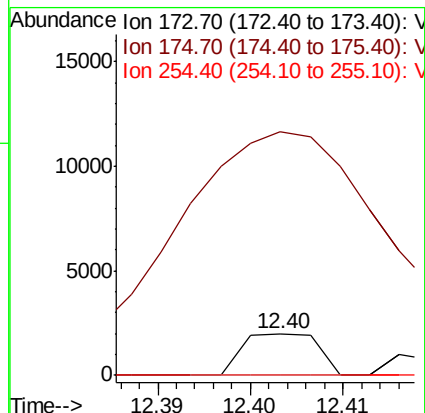
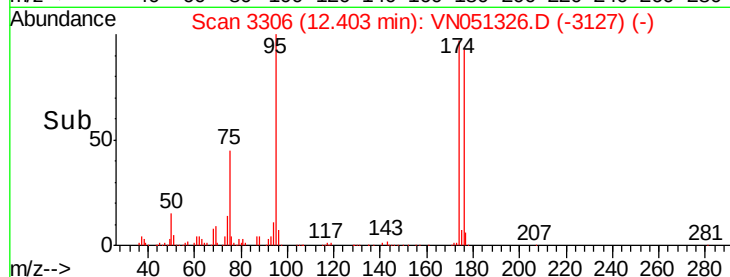
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

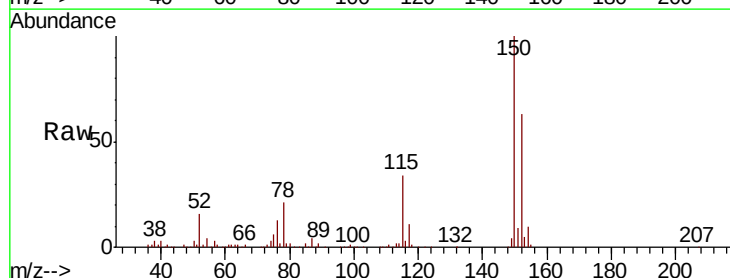
Tgt Ion:152 Resp: 216906

Ion Ratio Lower Upper

152 100

115 54.3 27.1 81.2

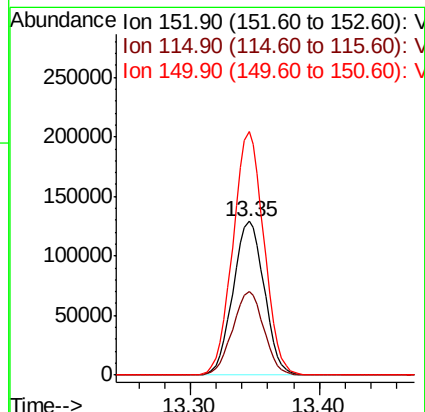
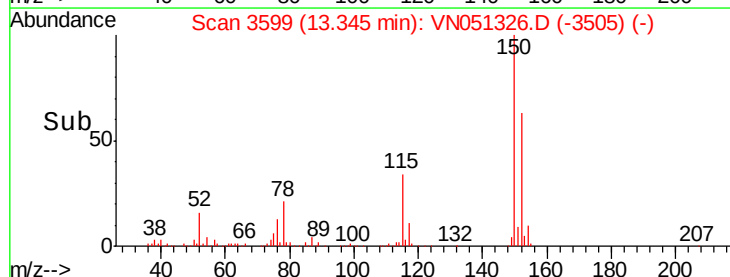
150 156.9 0.0 349.0

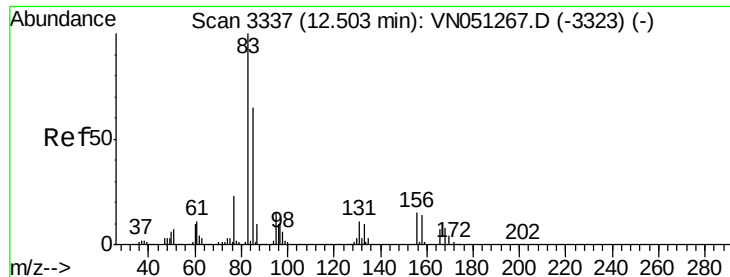


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

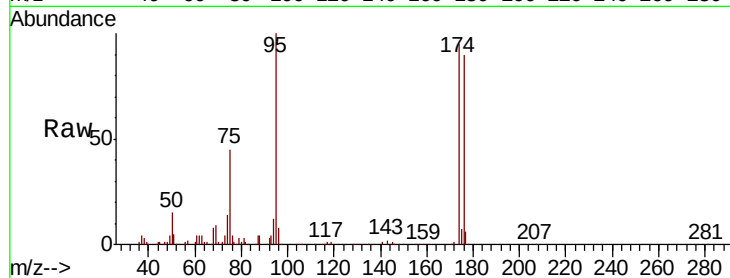
Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 83 Resp: 30

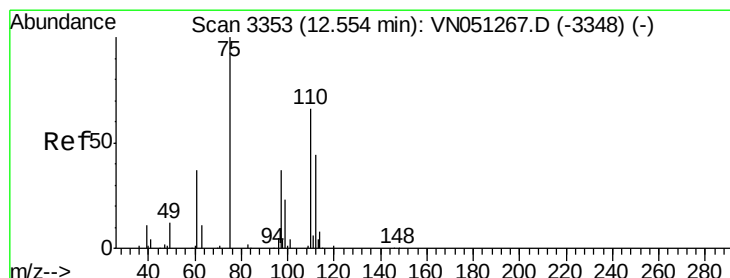
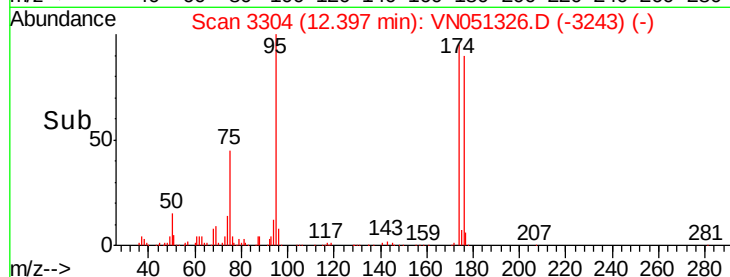
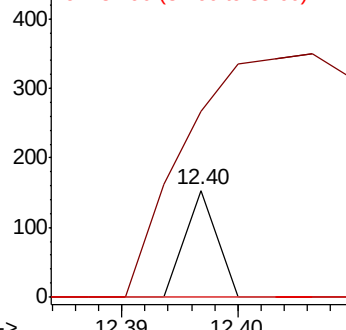
Ion	Ratio	Lower	Upper
83	100		
131	1420.0	5.5	16.7#
85	0.0	32.3	96.9#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 43.24 ug/l

RT: 12.40 min Scan# 3306

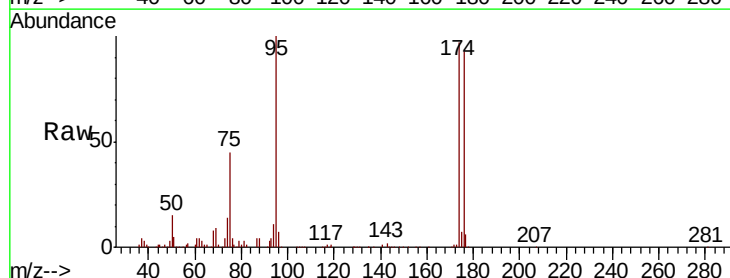
Delta R.T. -0.15 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

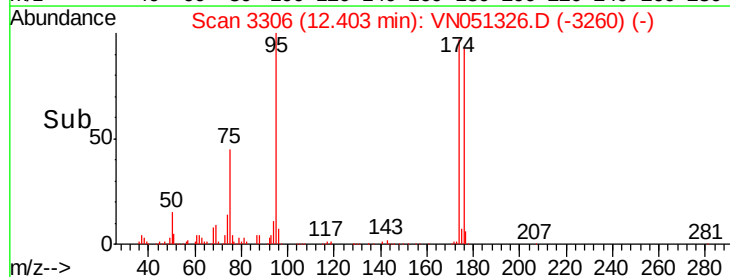
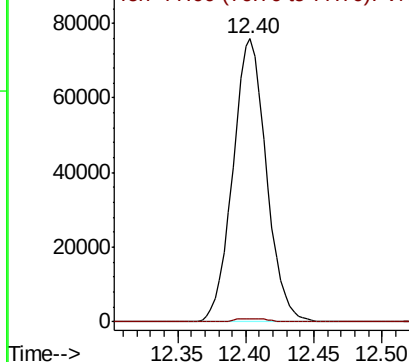
Tgt Ion: 75 Resp: 129319

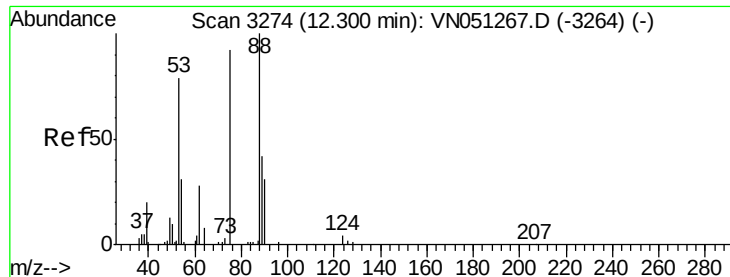
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#



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: 132.42 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

Instrument :

MSVOA_N

ClientSampled :

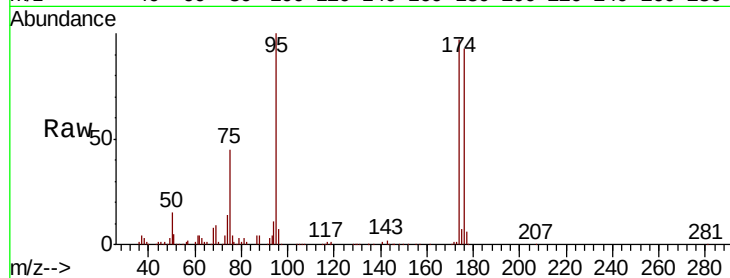
Tot Ion: 75 Resp: 129319

Ion Ratio Lower Upper

75 100

53 0.2 67.7 101.5#

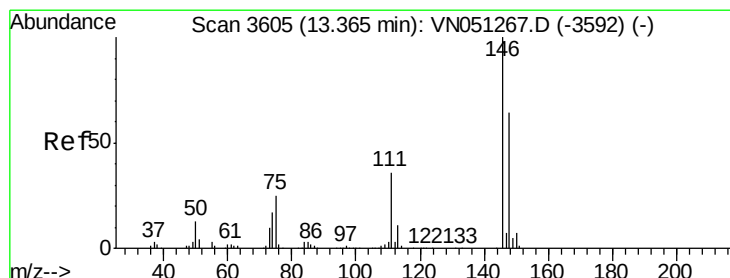
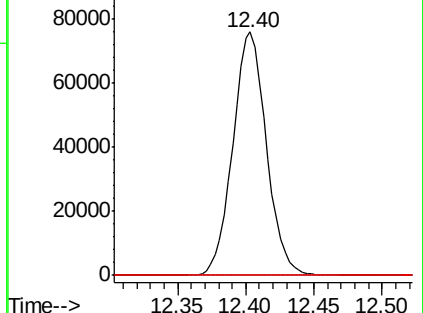
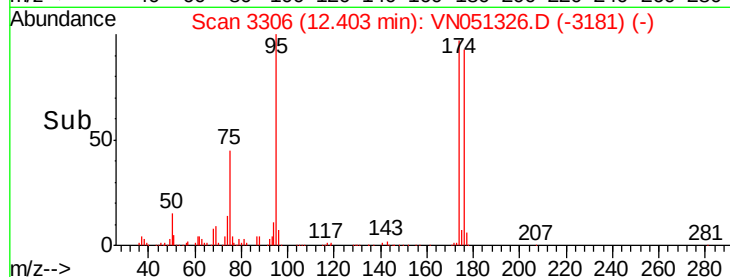
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN051326.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051326.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051326.D (-3181) (-)



#88

1,4-Dichlorobenzene

Concen: 0.45 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

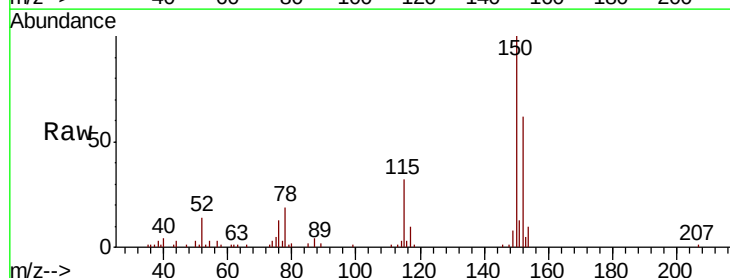
Tgt Ion: 146 Resp: 303

Ion Ratio Lower Upper

146 100

111 0.0 18.2 54.6#

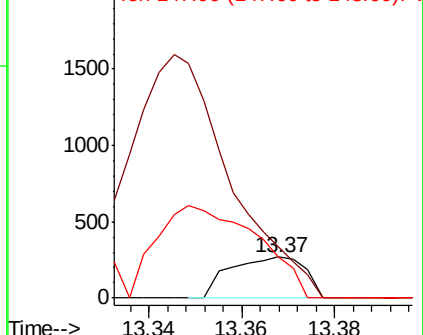
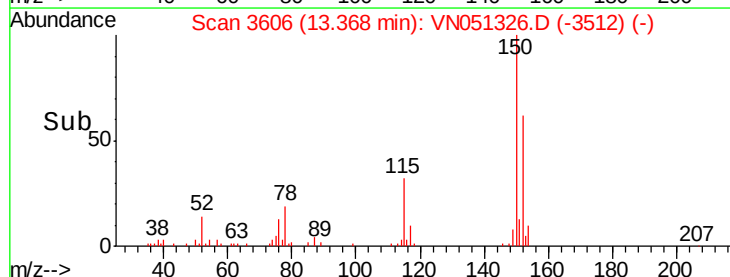
148 0.0 31.9 95.7#

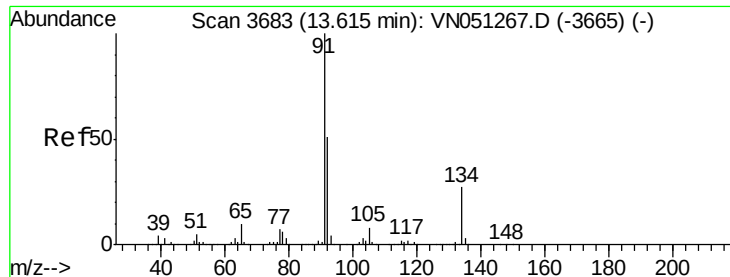


Abundance Ion 145.90 (145.60 to 146.60): VN051326.D (-3512) (-)

Ion 110.90 (110.60 to 111.60): VN051326.D (-3512) (-)

Ion 147.90 (147.60 to 148.60): VN051326.D (-3512) (-)

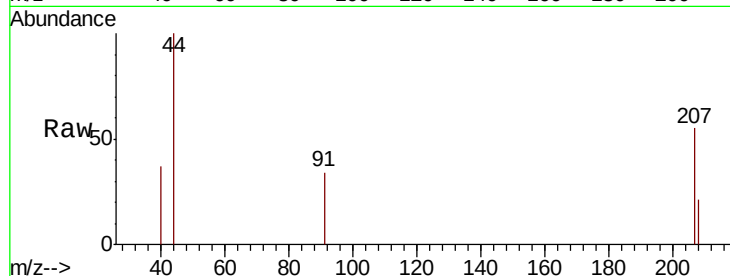




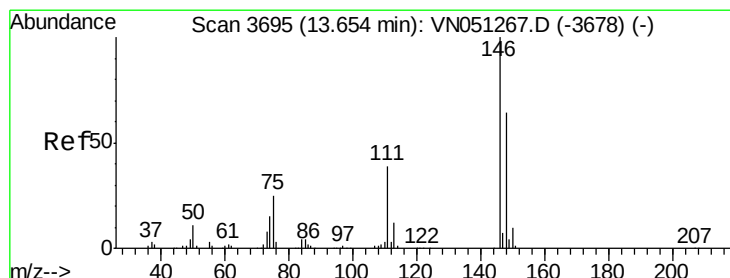
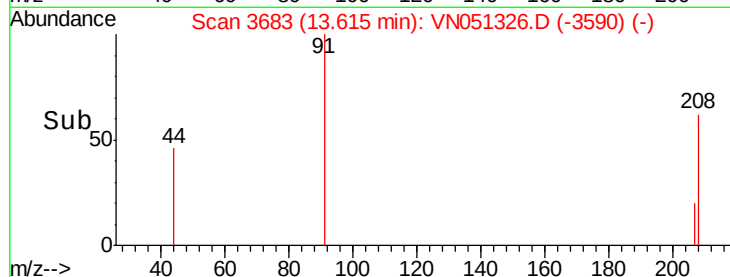
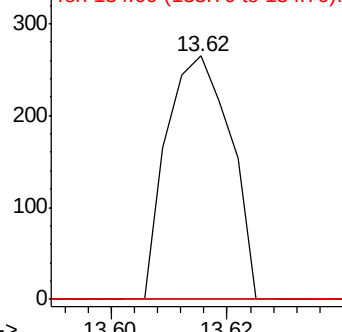
#89
n-Butylbenzene
Concen: 2.03 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 91 Resp: 202
Ion Ratio Lower Upper
91 100
92 0.0 25.8 77.4#
134 0.0 13.7 41.0#

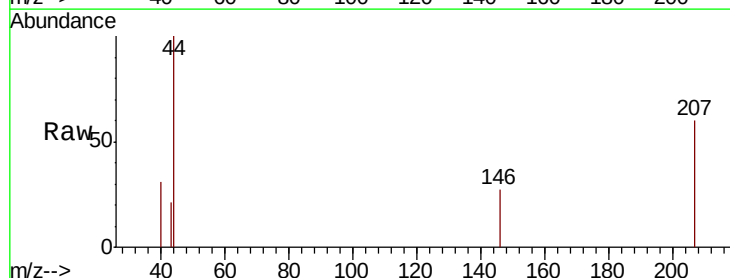


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

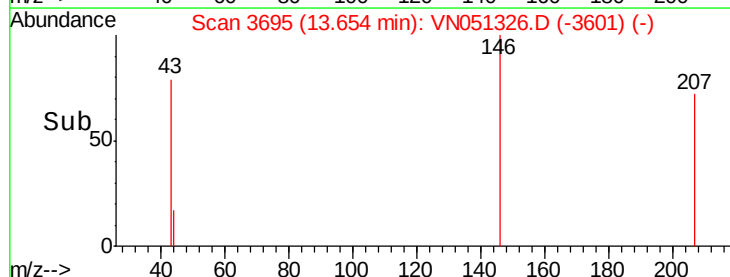
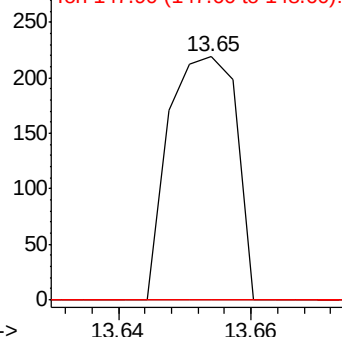


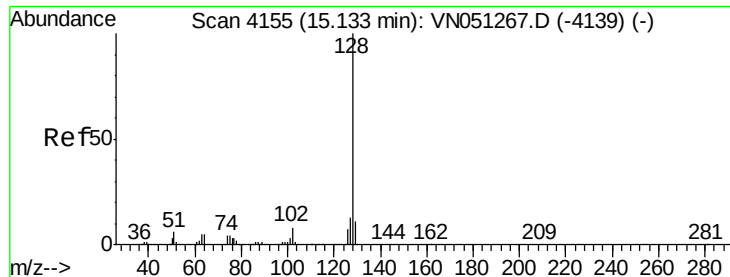
#91
1,2-Dichlorobenzene
Concen: Below Cal
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN051326.D
Acq: 19 Sep 2018 18:07

Tgt Ion: 146 Resp: 154
Ion Ratio Lower Upper
146 100
111 0.0 19.6 58.7#
148 0.0 31.9 95.9#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#95

Naphthalene

Concen: 5.99 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

Instrument :

MSVOA_N

ClientSampled :

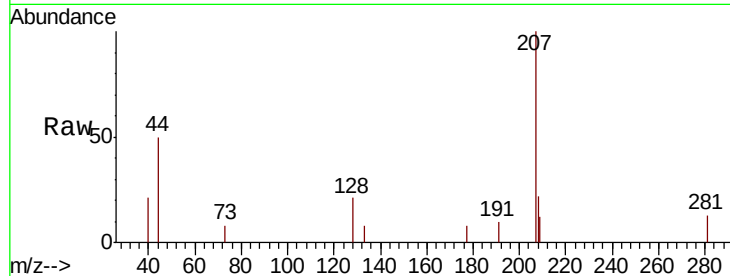
Tot Ion:128 Resp: 493

Ion Ratio Lower Upper

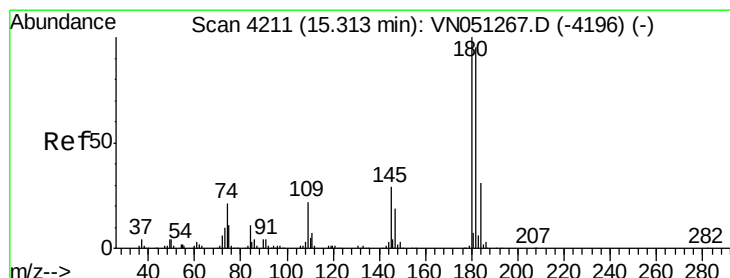
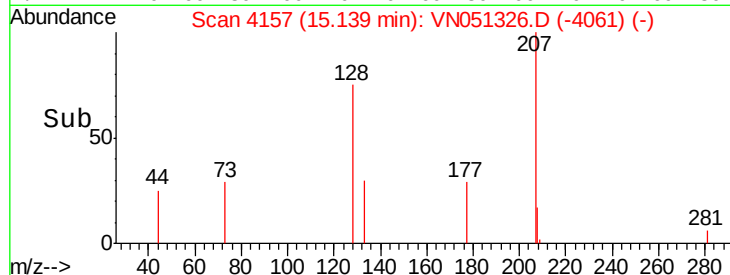
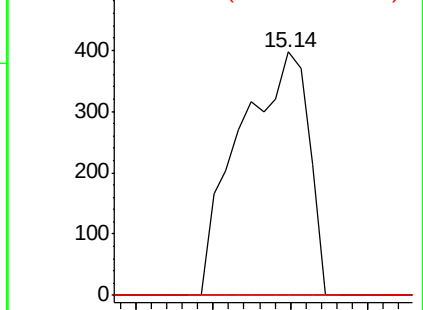
128 100

127 0.0 10.7 16.1#

129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.91 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN051326.D

Acq: 19 Sep 2018 18:07

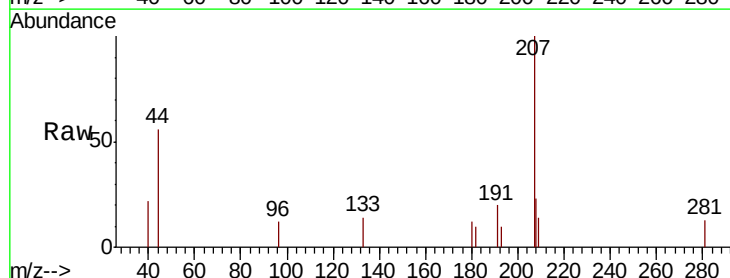
Tgt Ion:180 Resp: 176

Ion Ratio Lower Upper

180 100

182 54.0 47.5 142.6

145 0.0 14.8 44.4#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

