

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062118\
 Data File : VN049462.D
 Acq On : 21 Jun 2018 12:11
 Operator : MD\SY
 Sample : VN0621WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 03:36:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1466846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2294200	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1919260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	552146	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	991978	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
35) Dibromofluoromethane	7.59	113	887866	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	10.09	98	3192063	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	
62) 4-Bromofluorobenzene	12.40	95	797825	34.14	ug/l	0.00
Spiked Amount			Recovery	=	68.28%	

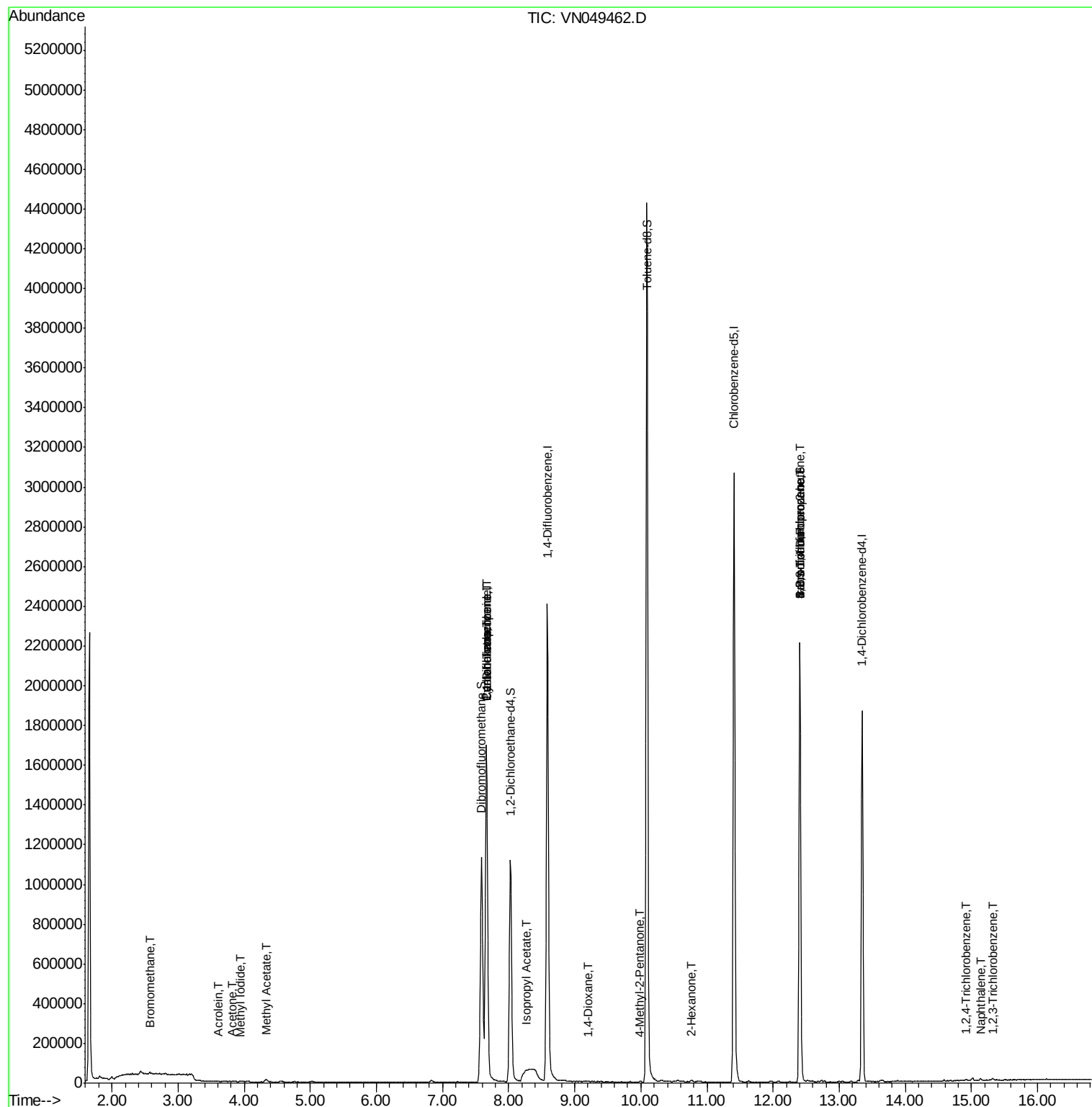
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	5685	0.47	ug/l	88
10) Methyl Iodide	3.95	142	4272	0.22	ug/l #	54
13) Acrolein	3.60	56	601	0.50	ug/l	96
16) Acetone	3.82	43	1197	0.25	ug/l #	54
18) Methyl Acetate	4.34	43	21898	1.52	ug/l #	90
31) Cyclohexane	7.66	56	26938	0.76	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	102123	3.88	ug/l #	51
38) Carbon Tetrachloride	7.66	117	132793	4.88	ug/l #	18
43) Isopropyl Acetate	8.27	43	73998	2.71	ug/l #	64
49) 1,4-Dioxane	9.19	88	506	2.85	ug/l #	59
51) 4-Methyl-2-Pentanone	9.98	43	3499	0.24	ug/l	89
59) 2-Hexanone	10.76	43	4410	0.48	ug/l	79
71) Bromoform	12.40	173	6634	0.55	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	732	Below	Cal #	69
76) 1,2,3-Trichloropropane	12.40	75	387063	41.09	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	387063	129.85	ug/l #	9
90) Hexachloroethane	13.88	117	278	Below	Cal #	9
93) 1,2,4-Trichlorobenzene	14.91	180	2607	4.99	ug/l	84
94) Hexachlorobutadiene	15.01	225	1252	Below	Cal #	1
95) Naphthalene	15.14	128	5716	2.45	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.32	180	3260	3.79	ug/l	97

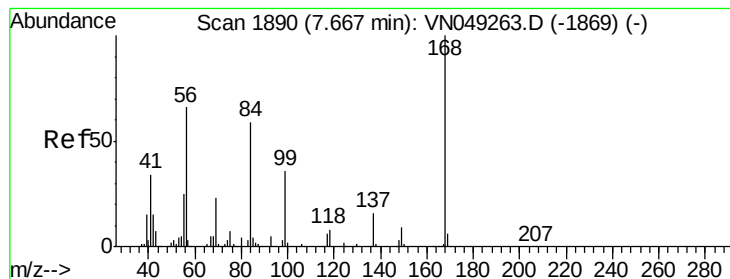
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 22 03:36:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

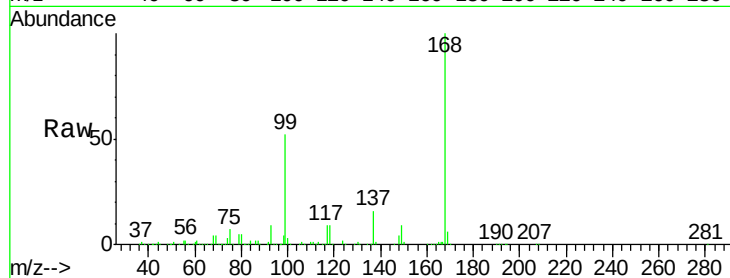
ClientSampleId :

Tot Ion:168 Resp: 1466846

Ion Ratio Lower Upper

168 100

99 52.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

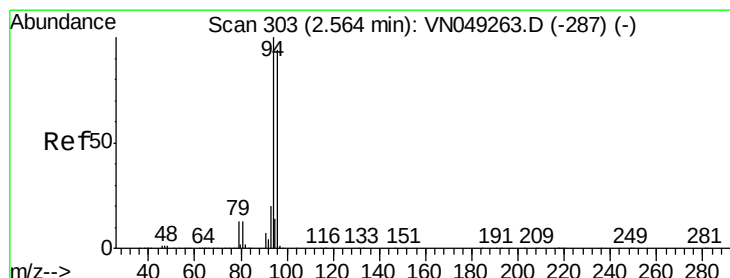
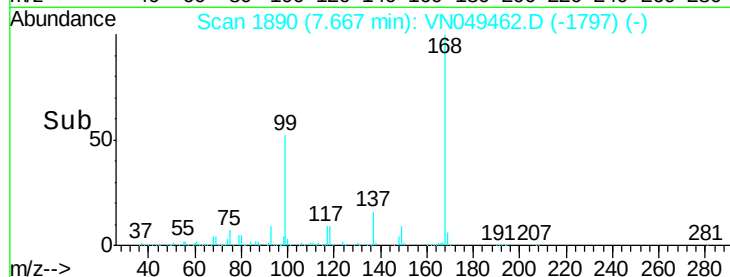
600000

400000

200000

0

Time-->



#5

Bromomethane

Concen: 0.47 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049462.D

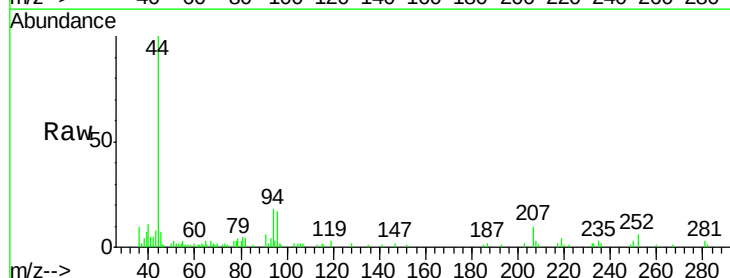
Acq: 21 Jun 2018 12:11

Tgt Ion: 94 Resp: 5685

Ion Ratio Lower Upper

94 100

96 79.9 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

3000

2500

2000

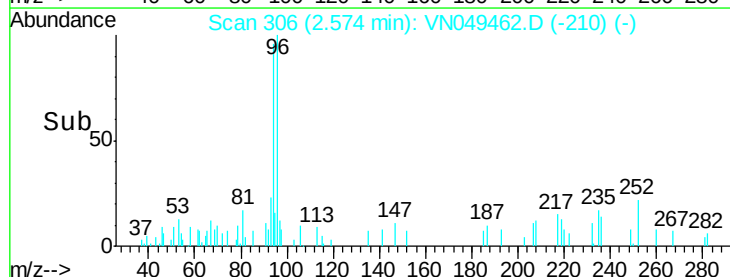
1500

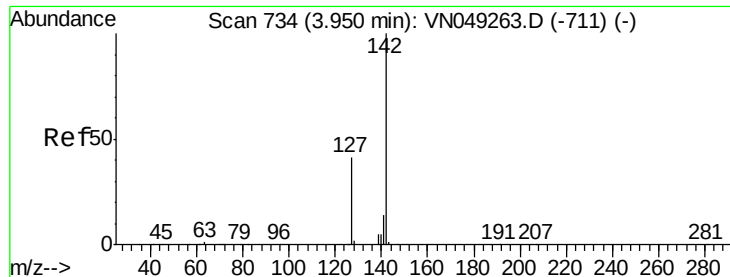
1000

500

0

Time-->

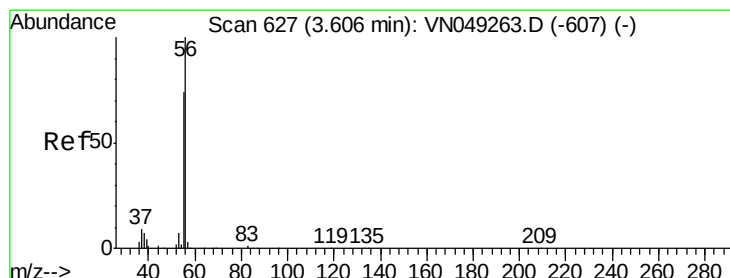
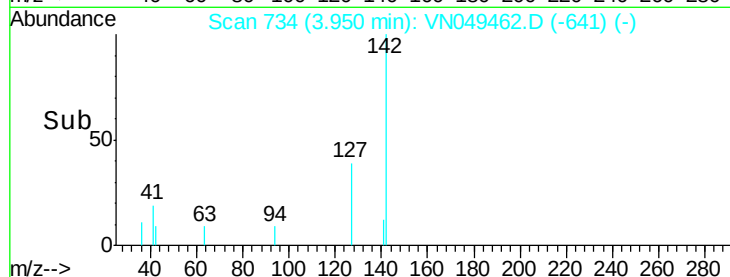
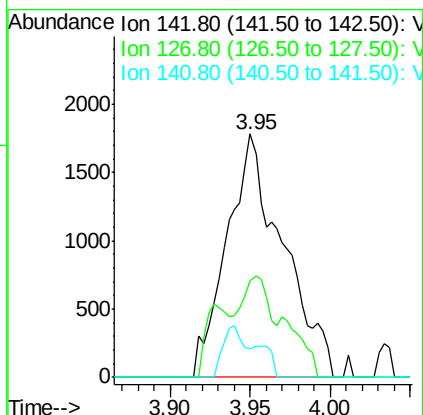
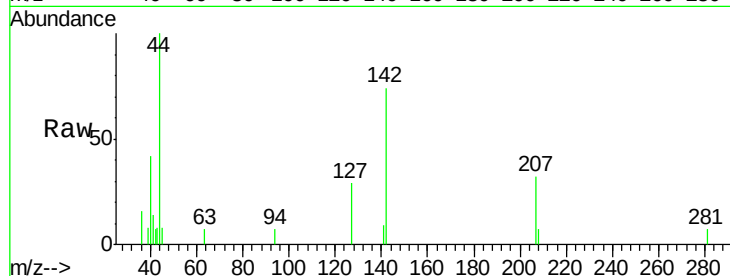




#10
Methvl Iodide
Concen: 0.22 ug/l
RT: 3.95 min Scan# 734
Delta R.T. 0.00 min
Lab File: VN049462.D
Acq: 21 Jun 2018 12:11

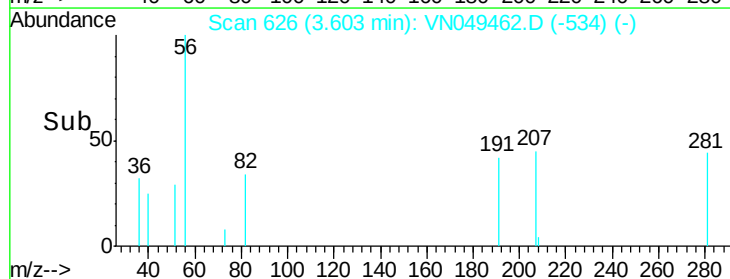
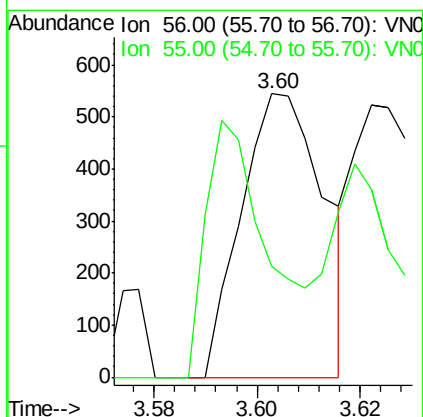
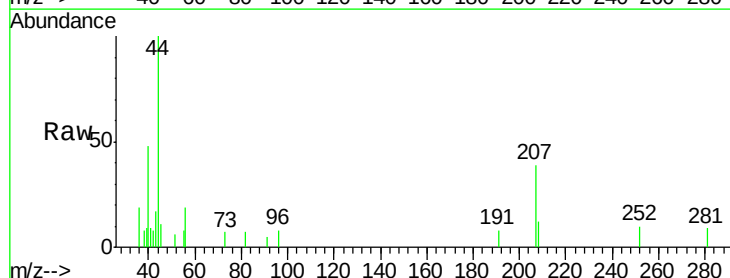
Instrument :
MSVOA_N
ClientSampleId :

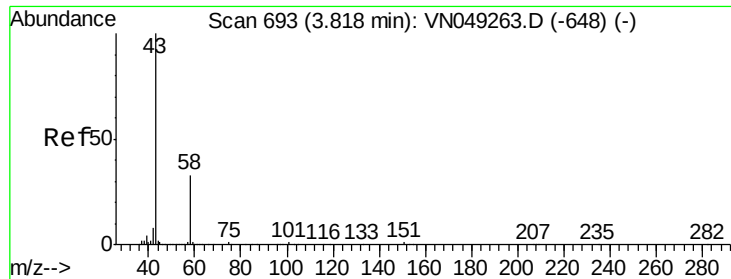
Tot Ion:142 Resp: 4272
Ion Ratio Lower Upper
142 100
127 10.6 38.2 57.4#
141 8.4 11.9 17.9#



#13
Acrolein
Concen: 0.50 ug/l
RT: 3.60 min Scan# 626
Delta R.T. -0.00 min
Lab File: VN049462.D
Acq: 21 Jun 2018 12:11

Tgt Ion: 56 Resp: 601
Ion Ratio Lower Upper
56 100
55 68.4 57.1 85.7

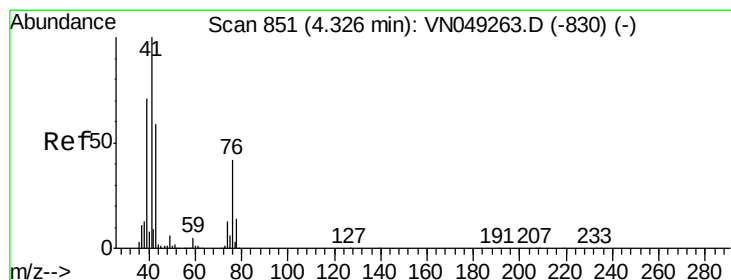
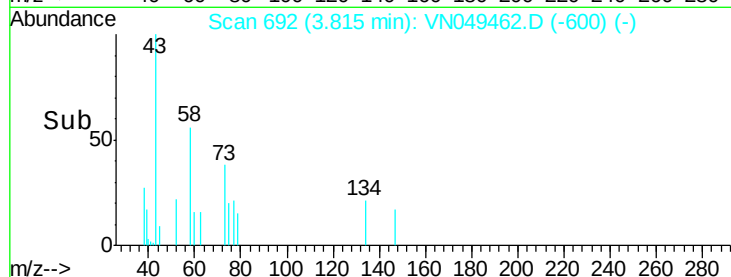
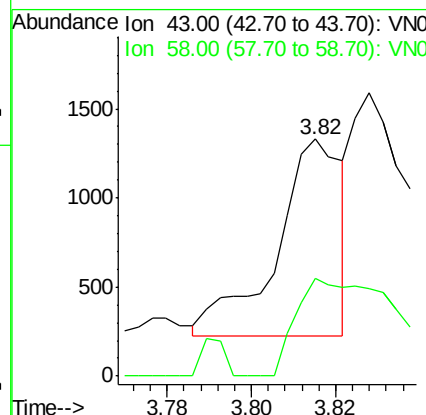
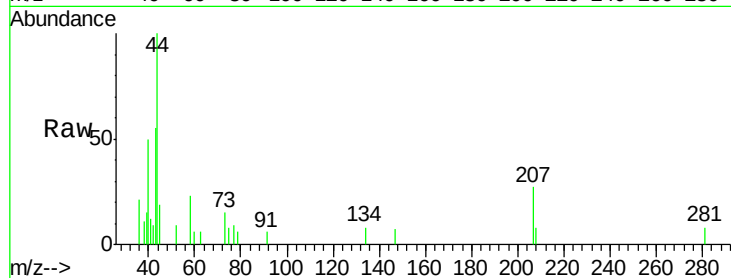




#16
Acetone
Concen: 0.25 ug/l
RT: 3.82 min Scan# 692
Delta R.T. -0.00 min
Lab File: VN049462.D
Acq: 21 Jun 2018 12:11

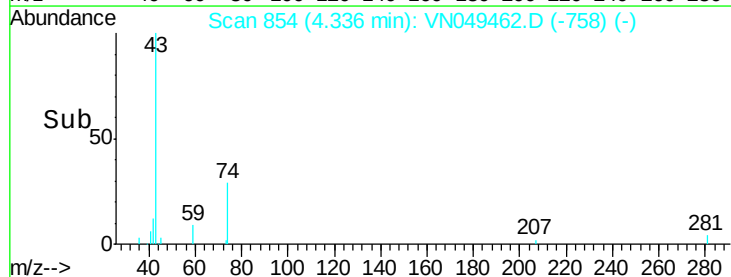
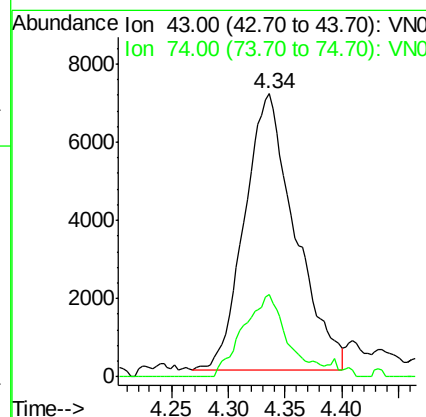
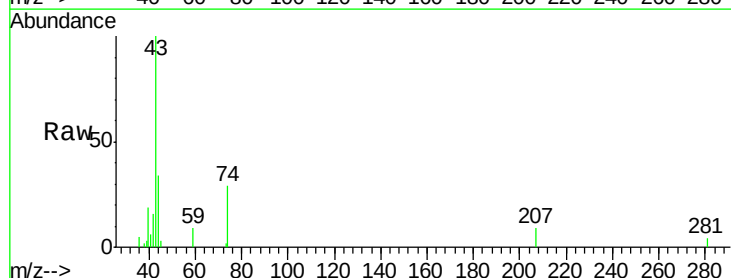
Instrument :
MSVOA_N
ClientSampled :

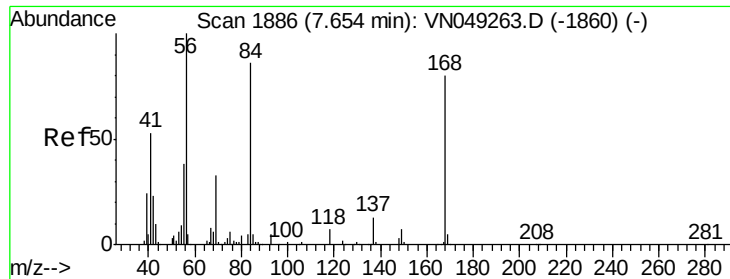
Tot Ion: 43 Resp: 1197
Ion Ratio Lower Upper
43 100
58 52.2 22.4 33.6#



#18
Methyl Acetate
Concen: 1.52 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049462.D
Acq: 21 Jun 2018 12:11

Tgt Ion: 43 Resp: 21898
Ion Ratio Lower Upper
43 100
74 26.3 17.4 26.0#

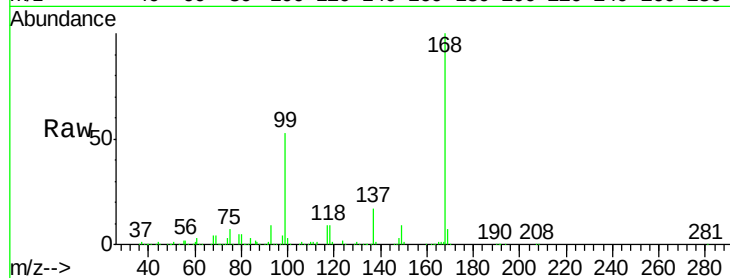




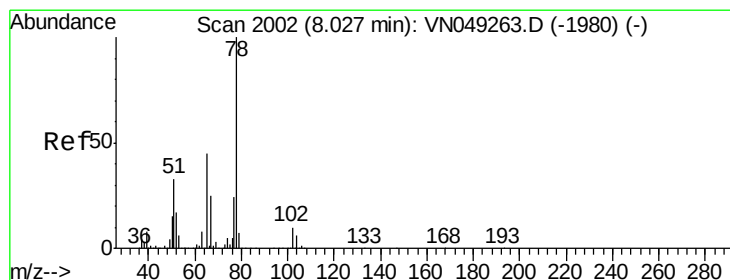
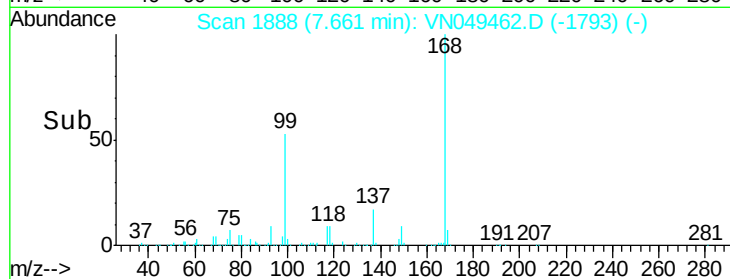
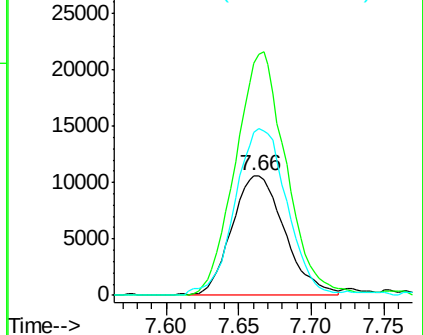
#31
Cyclohexane
Concen: 0.76 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN049462.D
Acq: 21 Jun 2018 12:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 26938
Ion Ratio Lower Upper
56 100
69 194.0 25.0 37.4#
84 133.0 64.6 96.8#

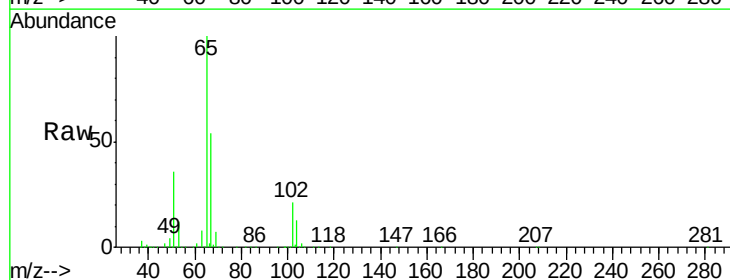


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

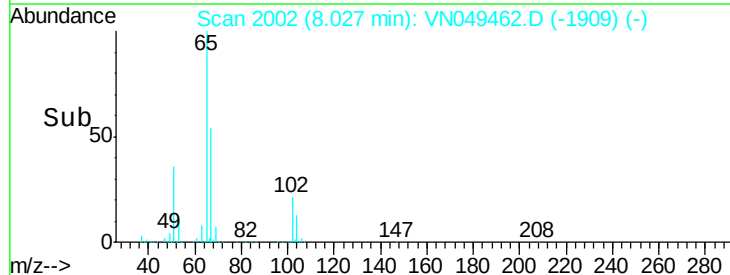
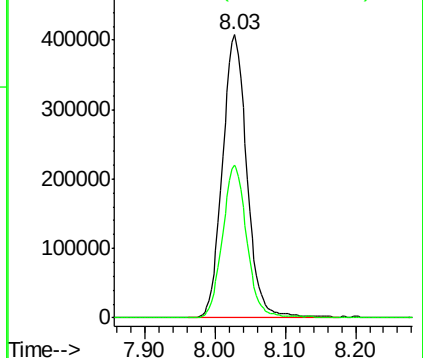


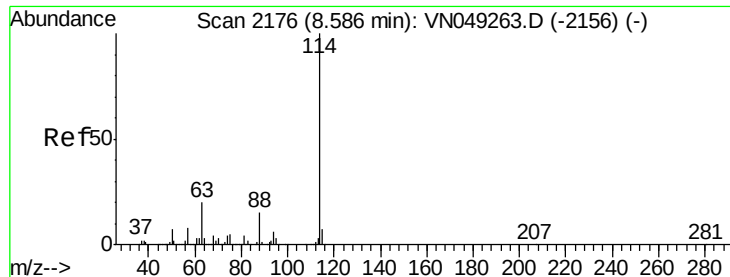
#33
1,2-Dichloroethane-d4
Concen: 50.99 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. 0.00 min
Lab File: VN049462.D
Acq: 21 Jun 2018 12:11

Tgt Ion: 65 Resp: 991978
Ion Ratio Lower Upper
65 100
67 53.4 0.0 103.8



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: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

ClientSampled :

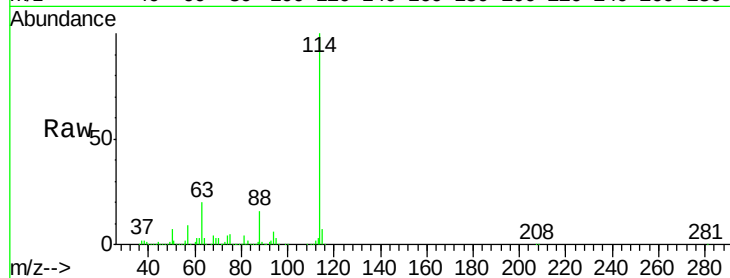
Tot Ion:114 Resp: 2294200

Ion Ratio Lower Upper

114 100

63 20.1 0.0 44.4

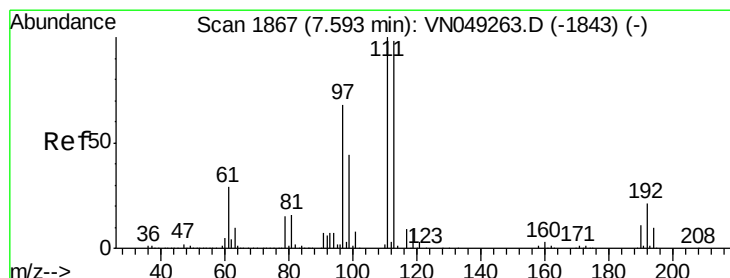
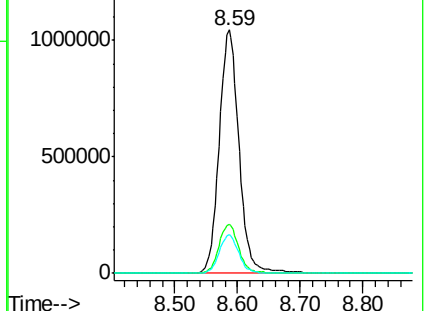
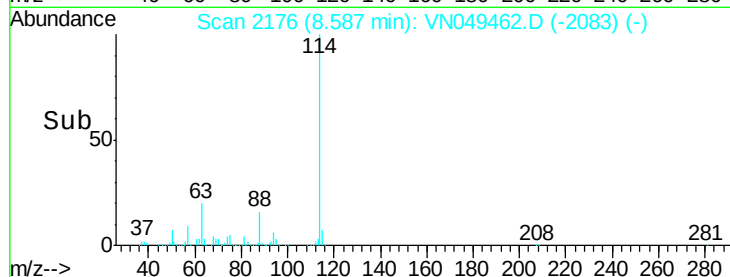
88 15.9 0.0 31.4



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



#35

Dibromofluoromethane

Concen: 47.83 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

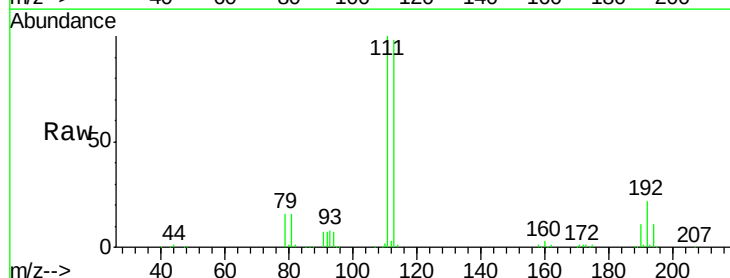
Tgt Ion:113 Resp: 887866

Ion Ratio Lower Upper

113 100

111 103.4 82.4 123.6

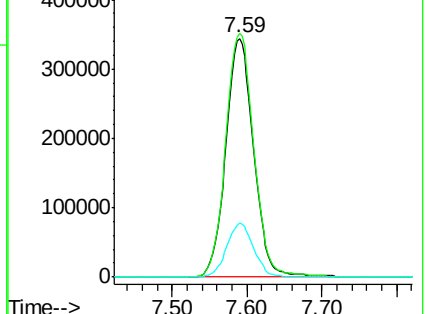
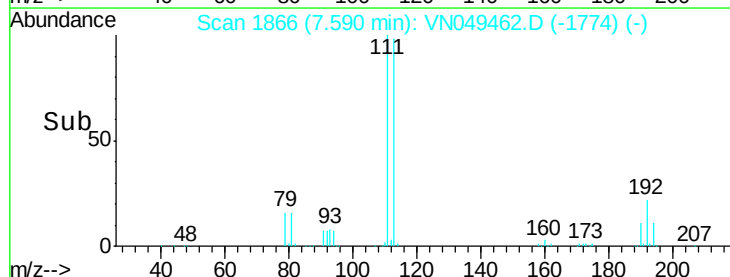
192 21.9 15.0 22.6

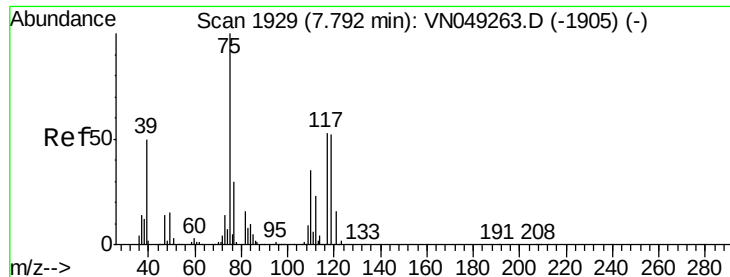


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.88 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.13 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

ClientSampleId :

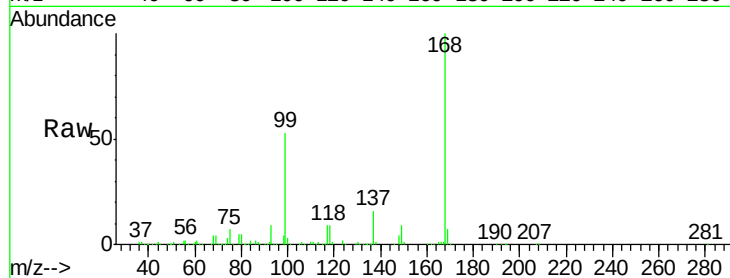
Tot Ion: 75 Resp: 102123

Ion Ratio Lower Upper

75 100

110 9.7 17.0 50.9#

77 0.0 24.4 36.6#

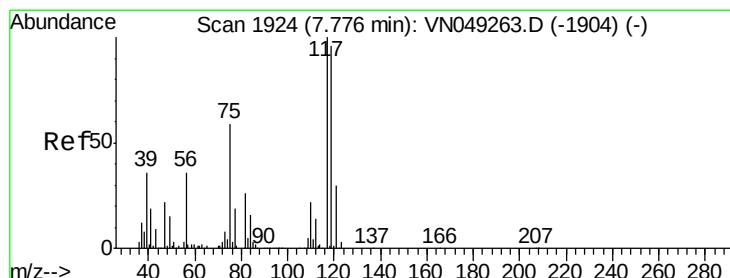
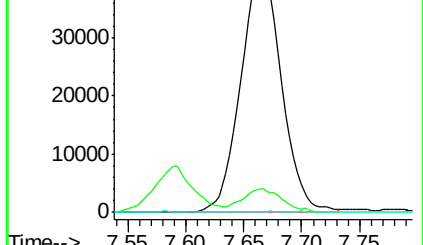
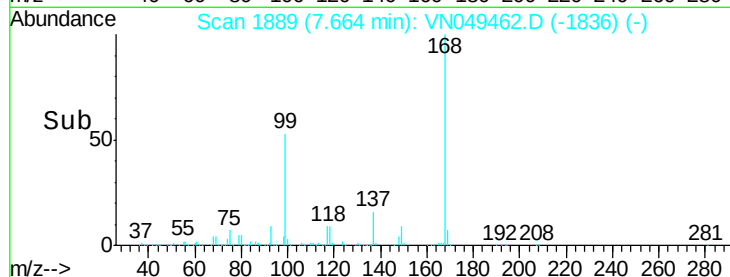


Abundance Ion 74.90 (74.60 to 75.60): VN049462.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049462.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049462.D (-1836) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.88 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.11 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

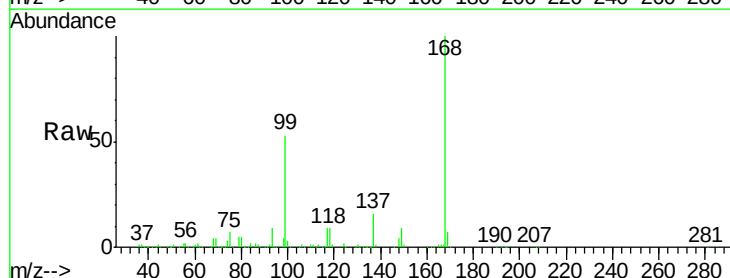
Tgt Ion: 117 Resp: 132793

Ion Ratio Lower Upper

117 100

119 6.4 75.6 113.4#

121 0.0 24.7 37.1#

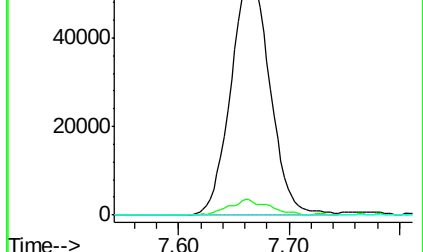
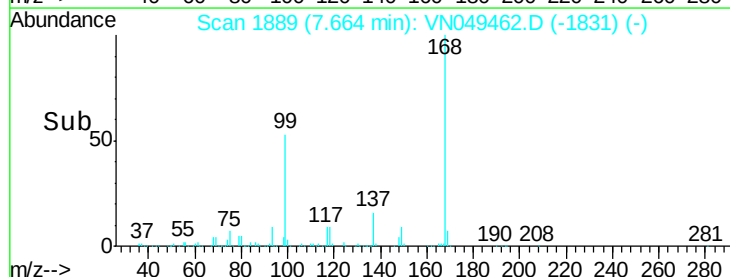


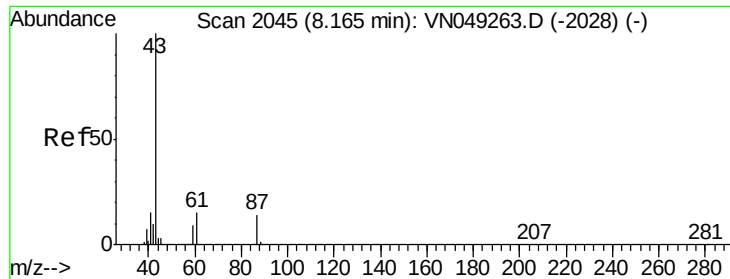
Abundance Ion 116.80 (116.50 to 117.50): VN049462.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049462.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049462.D (-1831) (-)

Time-->





#43

Isopropyl Acetate

Concen: 2.71 ug/l

RT: 8.27 min Scan# 2076

Delta R.T. 0.10 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

ClientSampled :

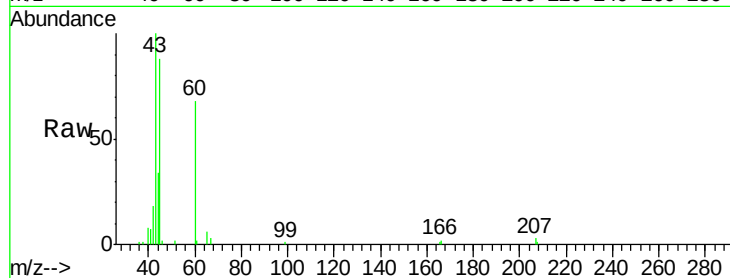
Tot Ion: 43 Resp: 73998

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

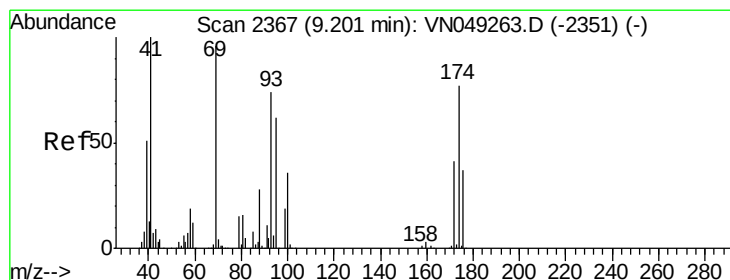
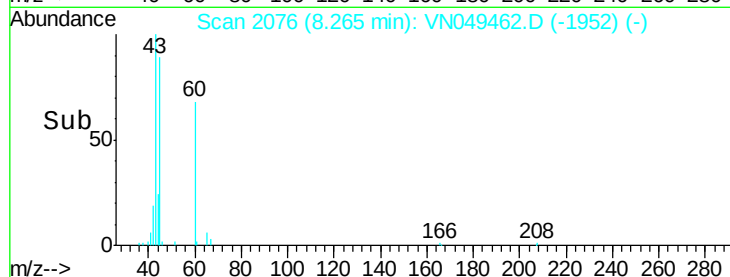
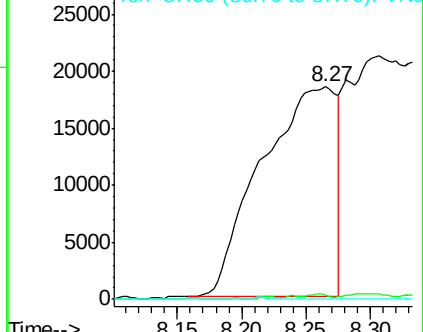
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049462.D (-2076) (-)

Ion 61.00 (60.70 to 61.70): VN049462.D (-2076) (-)

Ion 87.00 (86.70 to 87.70): VN049462.D (-2076) (-)



#49

1,4-Dioxane

Concen: 2.85 ug/l

RT: 9.19 min Scan# 2365

Delta R.T. -0.01 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

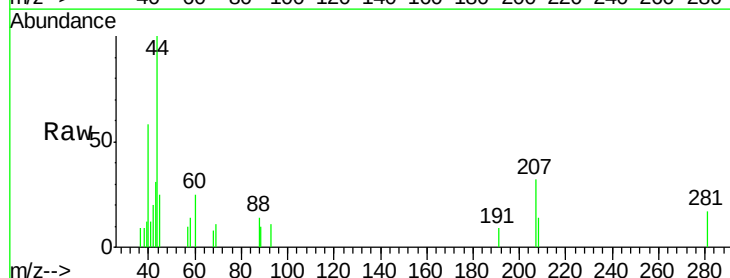
Tgt Ion: 88 Resp: 506

Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

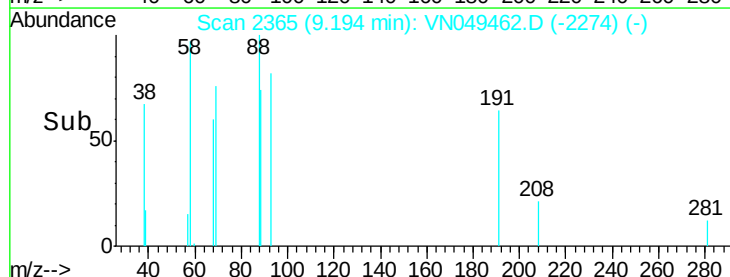
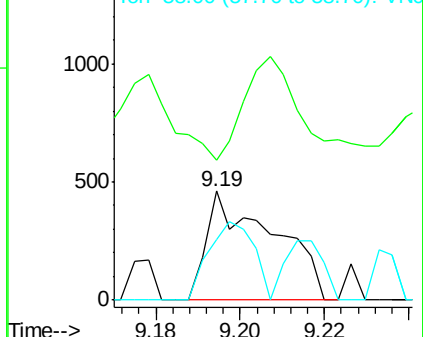
58 48.6 58.9 88.3#

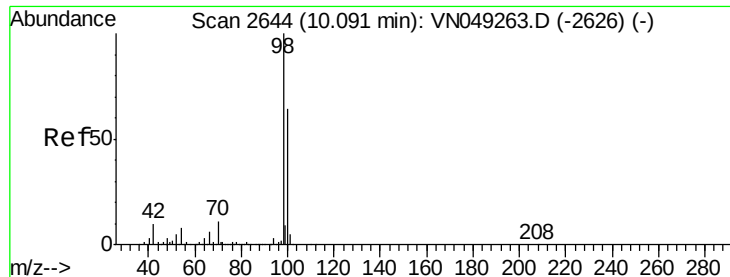


Abundance Ion 88.00 (87.70 to 88.70): VN049462.D (-2365) (-)

Ion 43.00 (42.70 to 43.70): VN049462.D (-2365) (-)

Ion 58.00 (57.70 to 58.70): VN049462.D (-2365) (-)





#50

Toluene-d8

Concen: 45.17 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

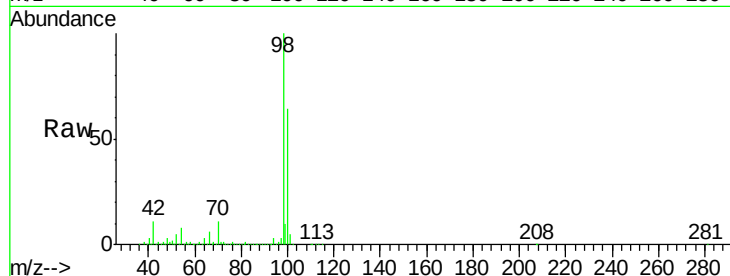
ClientSampleId :

Tot Ion: 98 Resp: 3192063

Ion Ratio Lower Upper

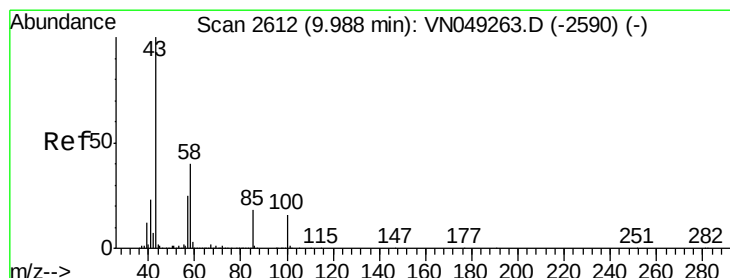
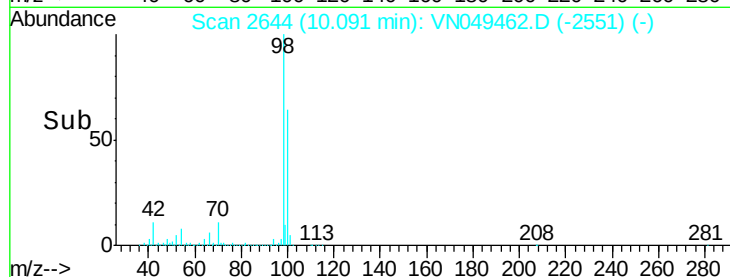
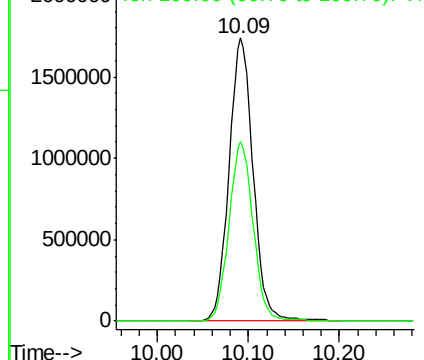
98 100

100 63.9 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.24 ug/l

RT: 9.98 min Scan# 2610

Delta R.T. -0.01 min

Lab File: VN049462.D

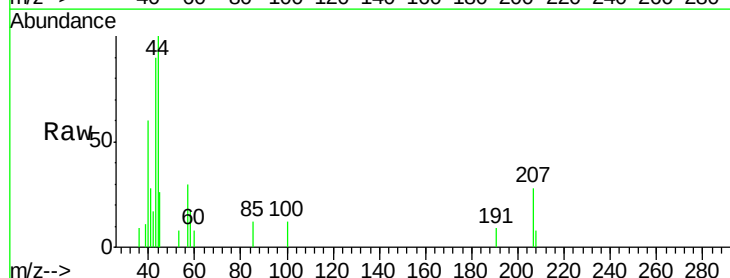
Acq: 21 Jun 2018 12:11

Tgt Ion: 43 Resp: 3499

Ion Ratio Lower Upper

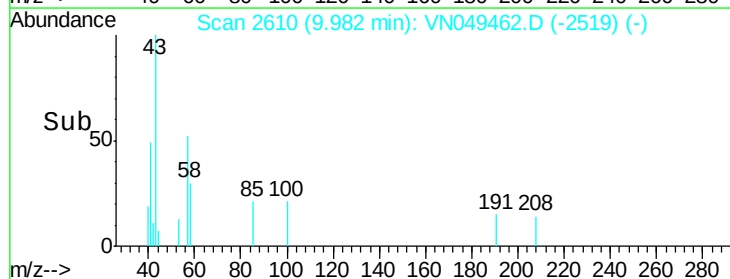
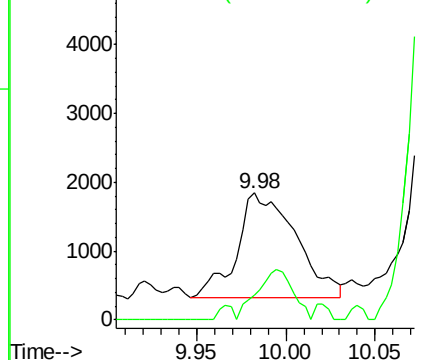
43 100

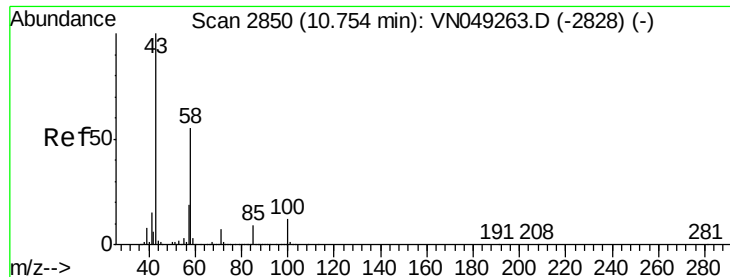
58 29.7 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#59

2-Hexanone

Concen: 0.48 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

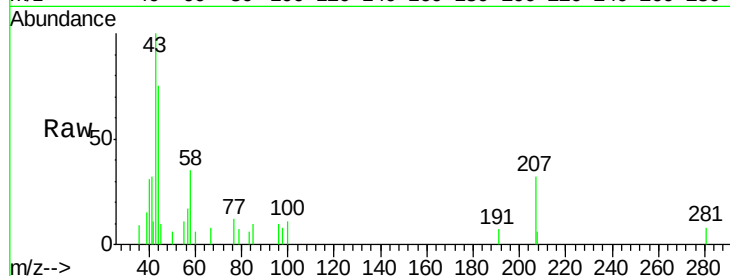
ClientSampled :

Tot Ion: 43 Resp: 4410

Ion Ratio Lower Upper

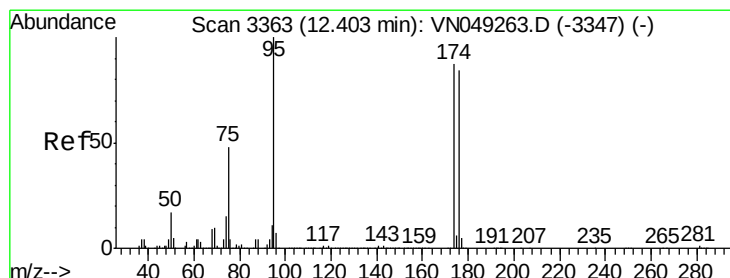
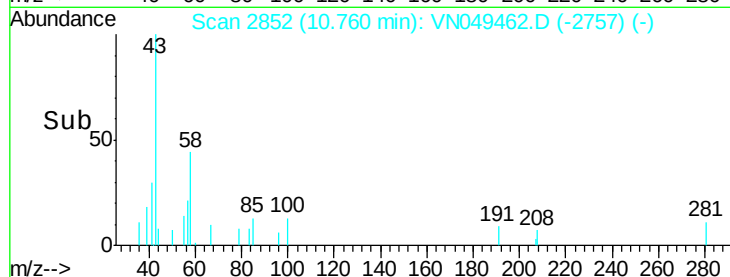
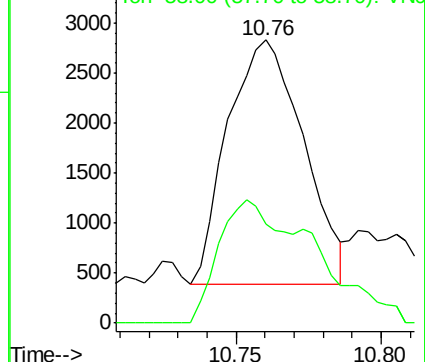
43 100

58 64.6 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 34.14 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

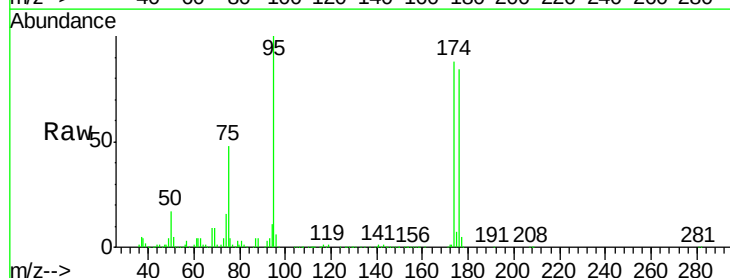
Tgt Ion: 95 Resp: 797825

Ion Ratio Lower Upper

95 100

174 90.3 0.0 165.6

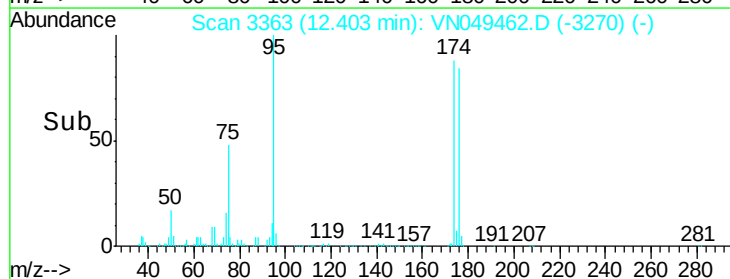
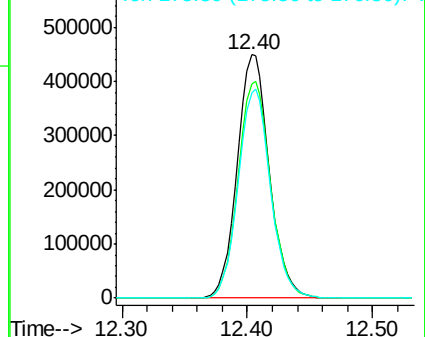
176 86.5 0.0 157.4

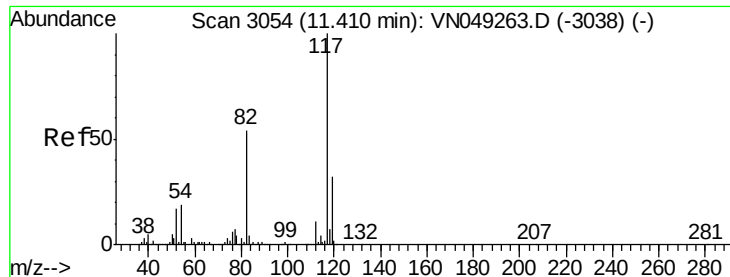


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

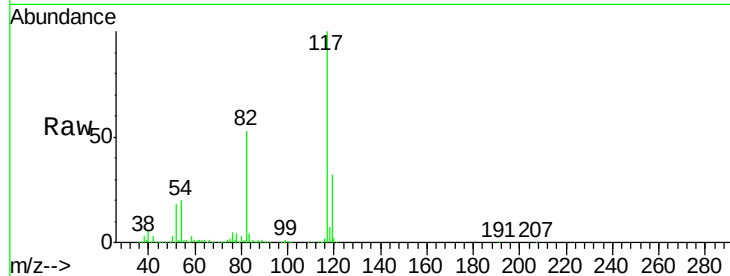




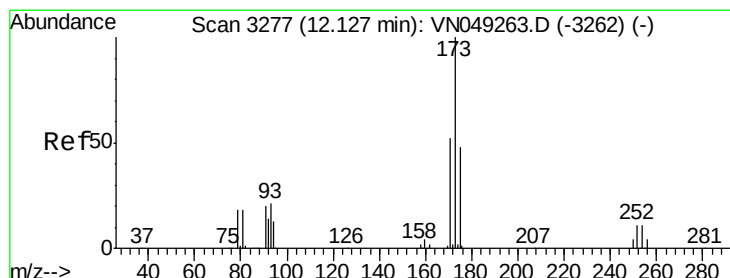
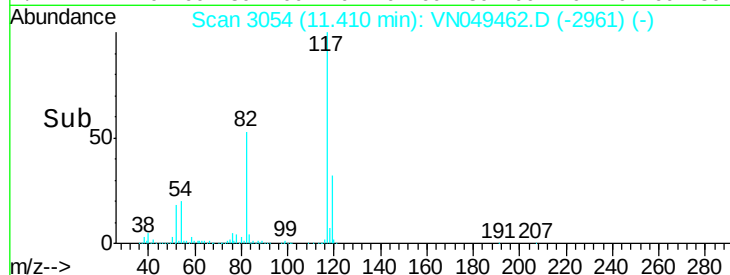
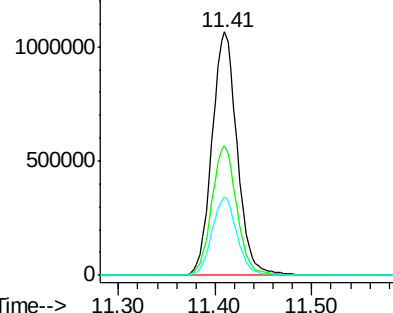
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049462.D
Acq: 21 Jun 2018 12:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1919260
Ion Ratio Lower Upper
117 100
82 53.1 45.9 68.9
119 32.1 25.5 38.3

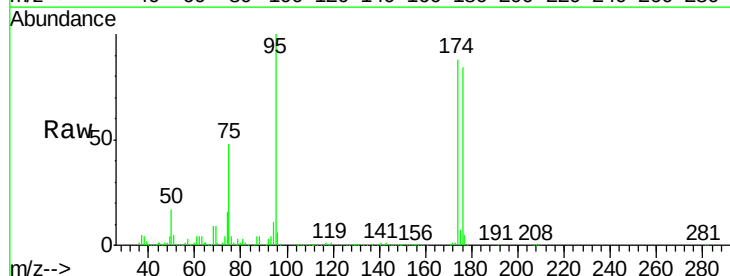


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

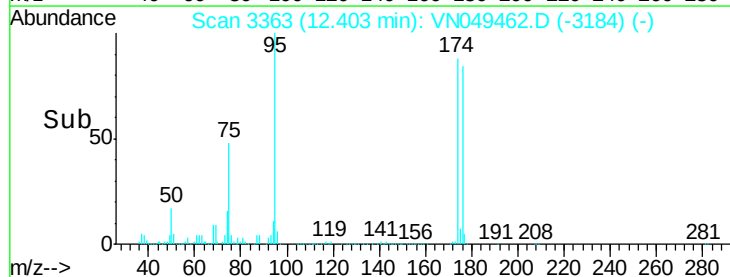
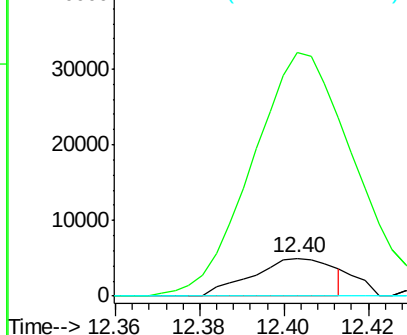


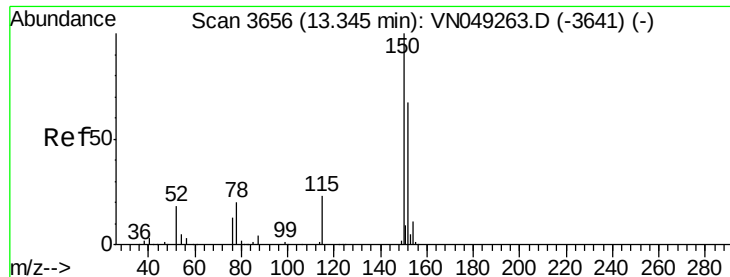
#71
Bromoform
Concen: 0.55 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049462.D
Acq: 21 Jun 2018 12:11

Tgt Ion:173 Resp: 6634
Ion Ratio Lower Upper
173 100
175 649.8 24.5 73.5#
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# 3657

Delta R.T. 0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

ClientSampleId :

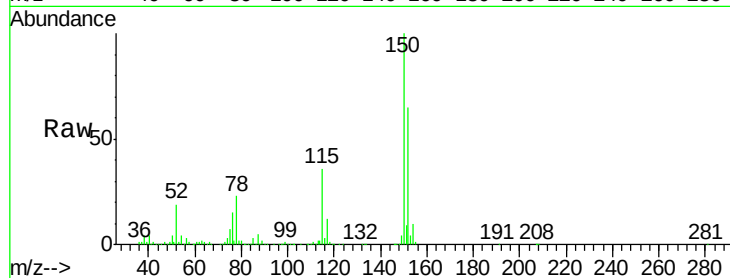
Tot Ion:152 Resp: 552146

Ion Ratio Lower Upper

152 100

115 56.6 28.7 86.1

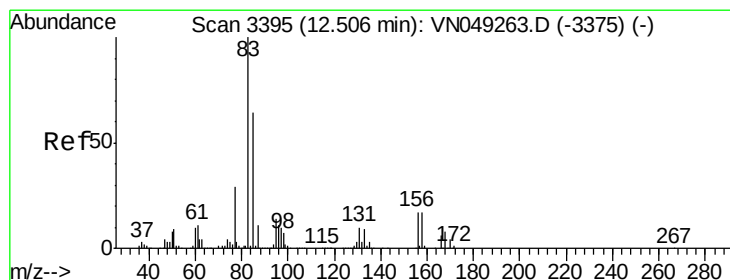
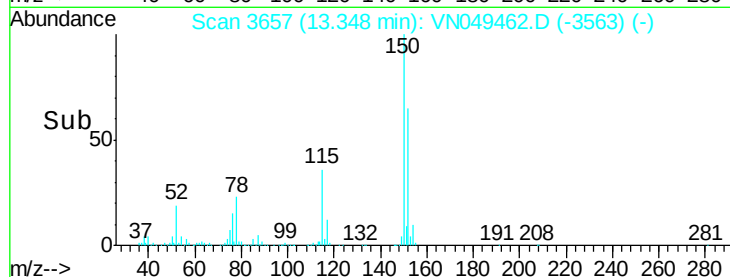
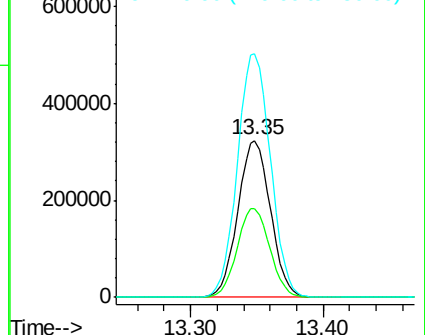
150 157.7 0.0 351.0



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: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

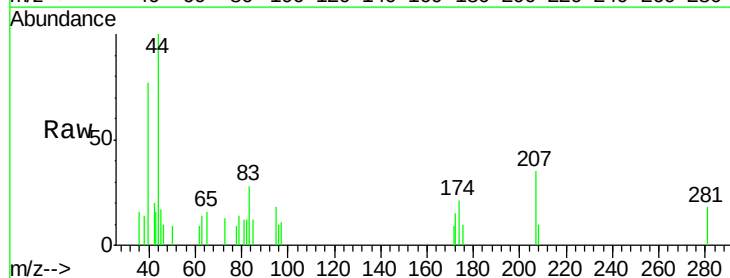
Tgt Ion: 83 Resp: 732

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

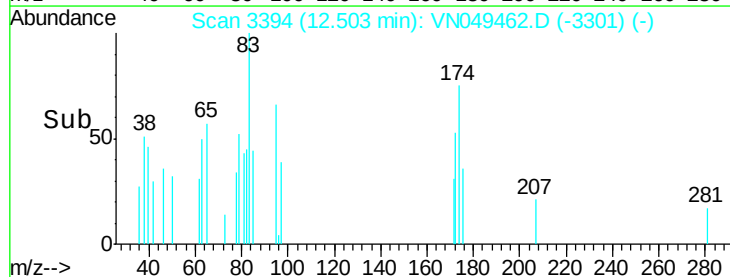
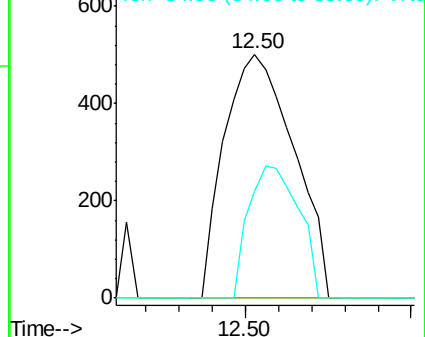
85 39.1 32.0 96.0

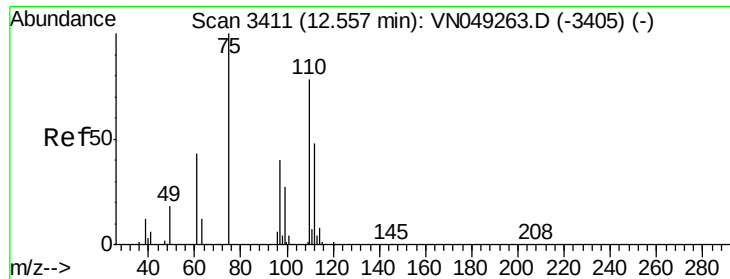


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 41.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

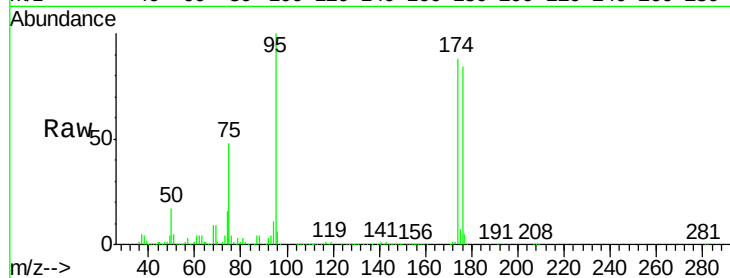
ClientSampleId :

Tot Ion: 75 Resp: 387063

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

250000

200000

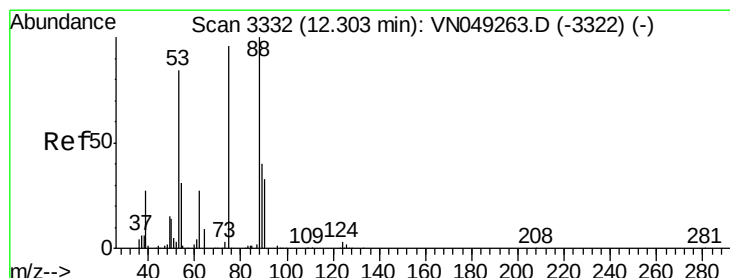
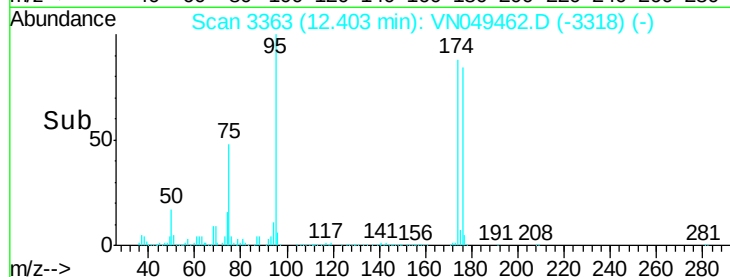
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 129.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

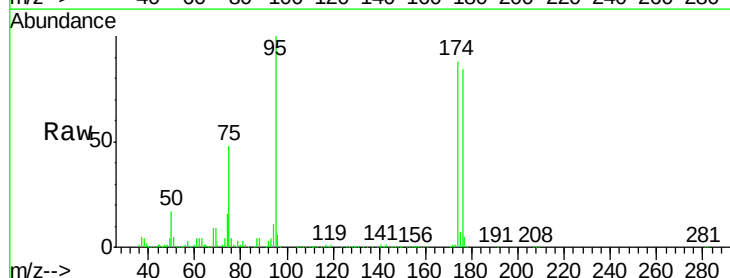
Tgt Ion: 75 Resp: 387063

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

300000

250000

200000

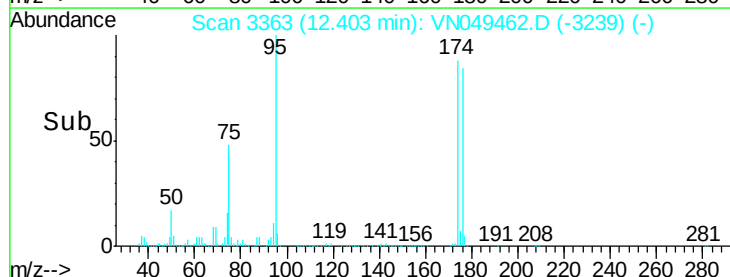
150000

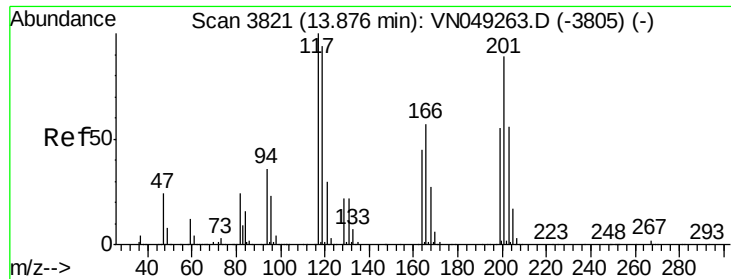
100000

50000

0

Time--> 12.30 12.40 12.50





#90

Hexachloroethane

Concen: Below Cal

RT: 13.88 min Scan# 3822

Delta R.T. 0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

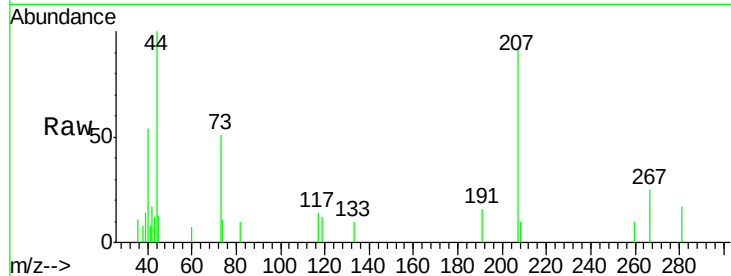
ClientSampled :

Tot Ion:117 Resp: 278

Ion Ratio Lower Upper

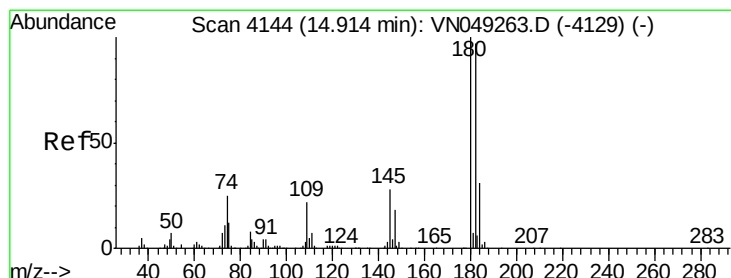
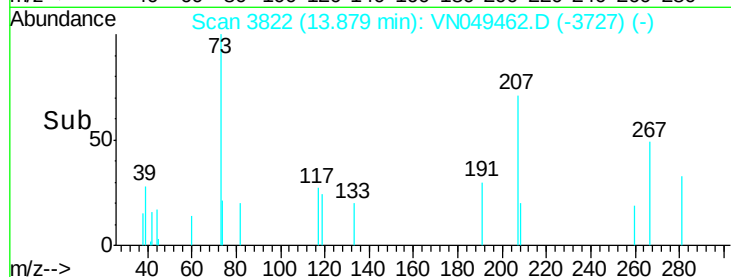
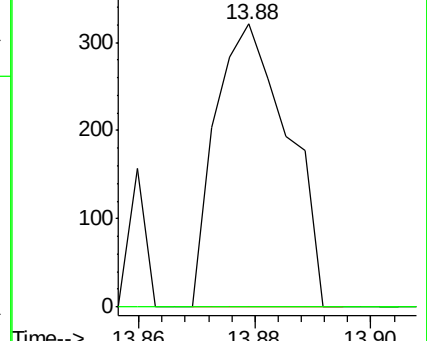
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 4.99 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

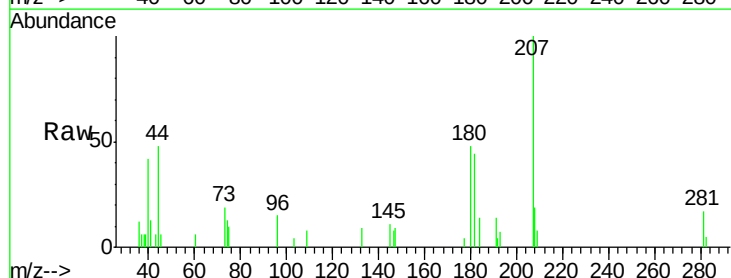
Tgt Ion:180 Resp: 2607

Ion Ratio Lower Upper

180 100

182 112.0 46.9 140.8

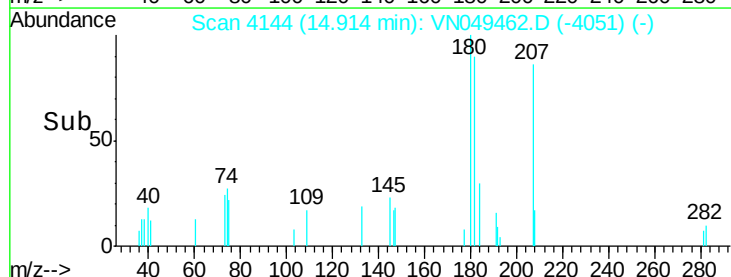
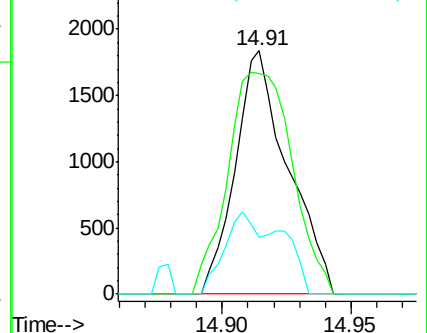
145 24.4 14.7 44.1

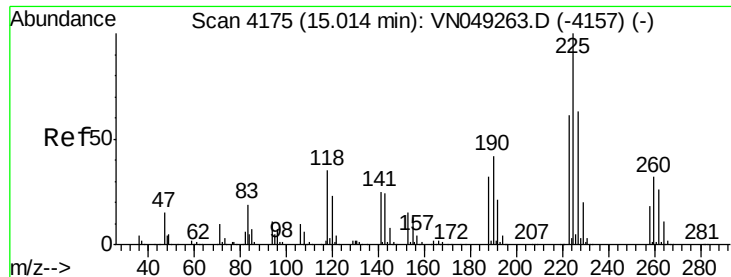


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4173

Delta R.T. -0.01 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

Instrument :

MSVOA_N

ClientSampled :

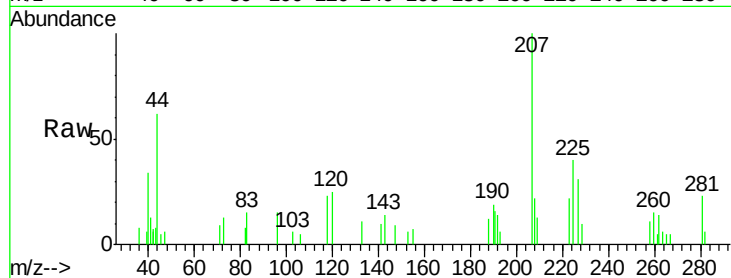
Tot Ion:225 Resp: 1252

Ion Ratio Lower Upper

225 100

223 142.4 32.1 96.3#

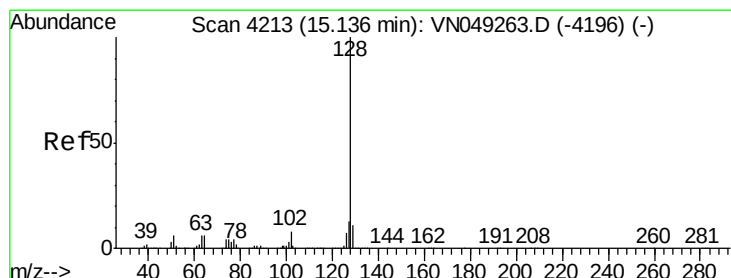
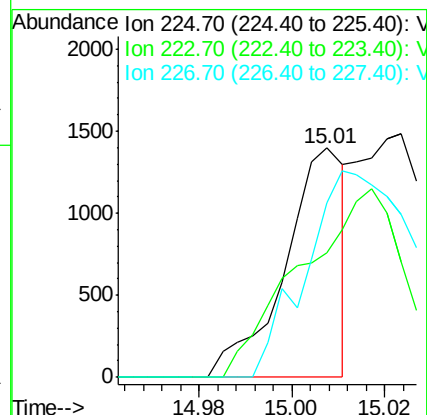
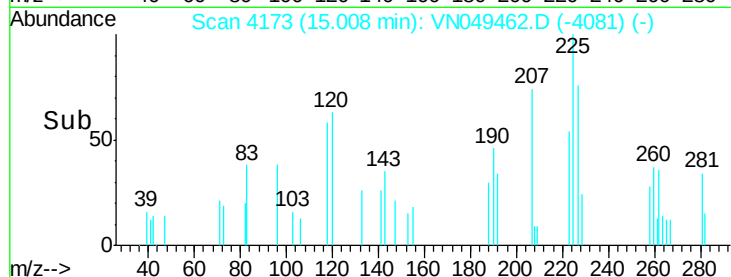
227 158.7 31.8 95.3#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.45 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049462.D

Acq: 21 Jun 2018 12:11

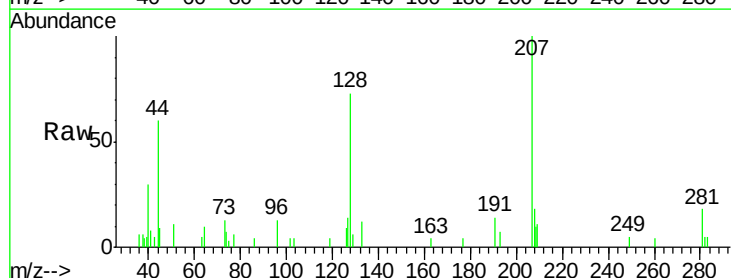
Tgt Ion:128 Resp: 5716

Ion Ratio Lower Upper

128 100

127 14.6 10.6 16.0

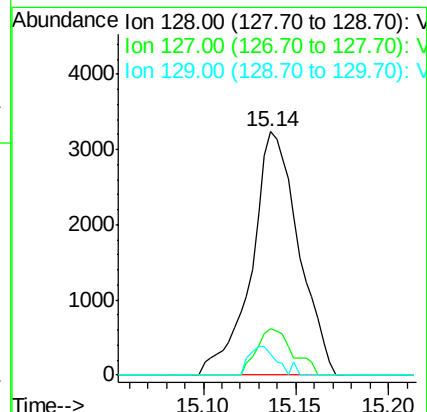
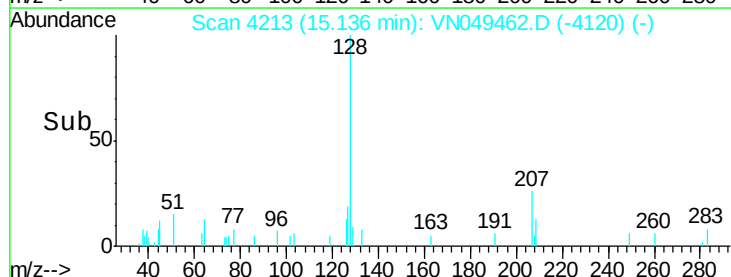
129 7.0 8.5 12.7#

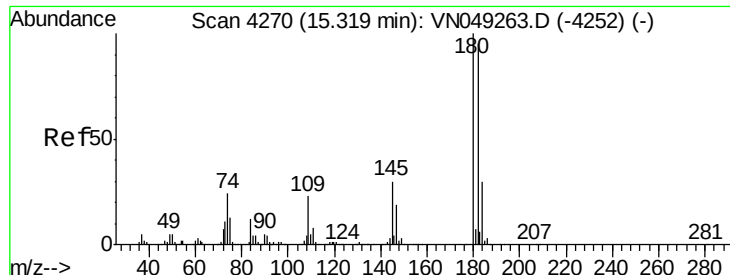


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

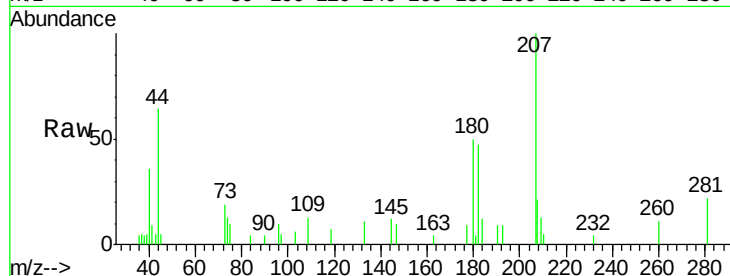




#96
 1,2,3-Trichlorobenzene
 Concen: 3.79 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.00 min
 Lab File: VN049462.D
 Acq: 21 Jun 2018 12:11

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.3	141.8
145	25.4	15.6	46.7



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

