

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\
 Data File : VN049361.D
 Acq On : 18 Jun 2018 23:49
 Operator : MD\SY
 Sample : VN0618WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 03:57:15 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	1550998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2455823	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2072245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	677372	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	1044566	50.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.56%	
35) Dibromofluoromethane	7.59	113	920636	46.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.68%	
50) Toluene-d8	10.09	98	3419600	45.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.40%	
62) 4-Bromofluorobenzene	12.41	95	920722	36.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	73.62%	

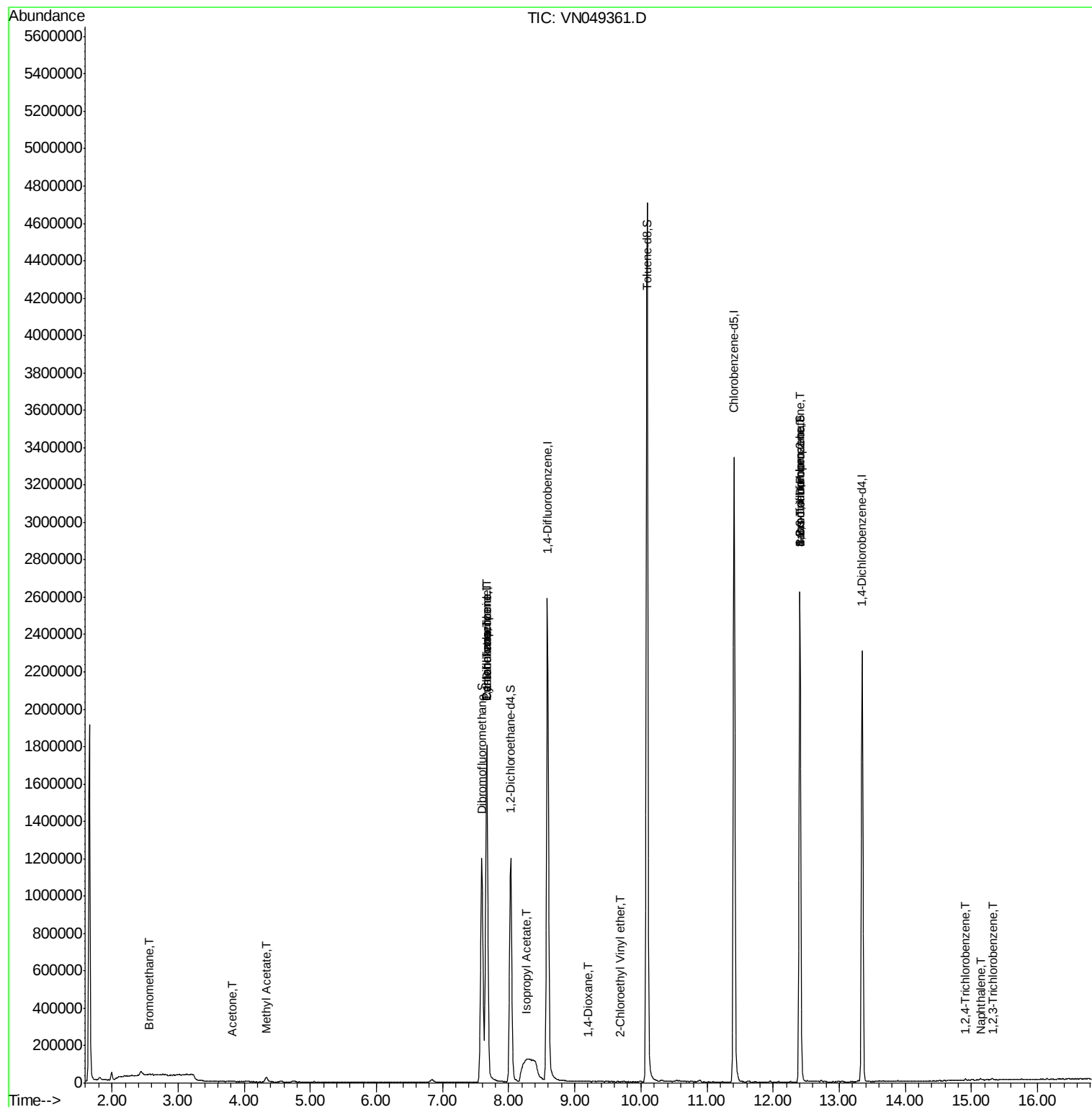
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	5620	0.44	ug/l	100
16) Acetone	3.81	43	1374	0.28	ug/l	92
18) Methyl Acetate	4.34	43	47323	3.11	ug/l	97
31) Cyclohexane	7.67	56	28103	0.75	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	108308	3.85	ug/l #	50
38) Carbon Tetrachloride	7.67	117	139776	4.80	ug/l #	17
43) Isopropyl Acetate	8.27	43	187570	6.42	ug/l #	64
49) 1,4-Dioxane	9.20	88	99	0.52	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.69	63	291	14.36	ug/l #	51
71) Bromoform	12.41	173	6440	0.50	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	621	Below Cal	#	73
76) 1,2,3-Trichloropropane	12.41	75	445558	38.55	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	445558	121.84	ug/l #	9
90) Hexachloroethane	13.94	117	128	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.90	180	909	4.81	ug/l #	1
94) Hexachlorobutadiene	15.01	225	1344	Below Cal	#	69
95) Naphthalene	15.14	128	5827	2.39	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.32	180	2924	3.70	ug/l	78

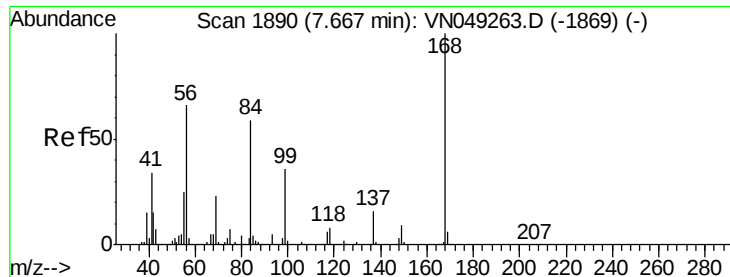
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

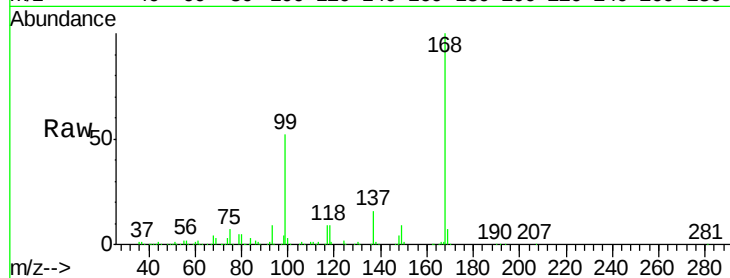
ClientSampleId :

Tot Ion:168 Resp: 1550998

Ion Ratio Lower Upper

168 100

99 51.7 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

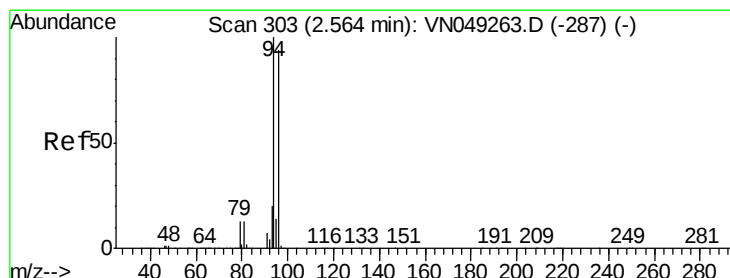
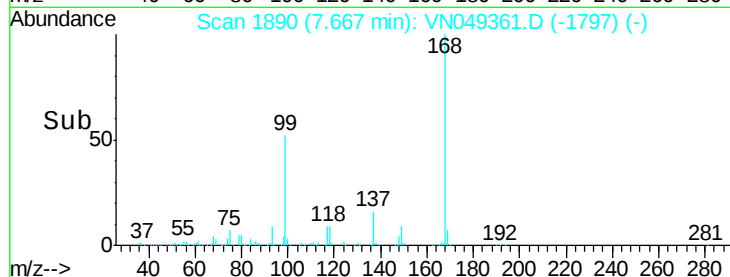
600000

400000

200000

0

Time-->



#5

Bromomethane

Concen: 0.44 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049361.D

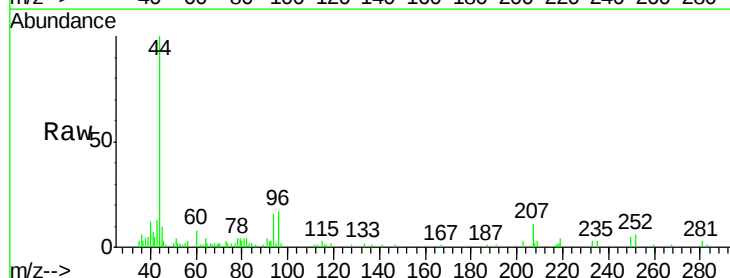
Acq: 18 Jun 2018 23:49

Tgt Ion: 94 Resp: 5620

Ion Ratio Lower Upper

94 100

96 90.5 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

2500

2000

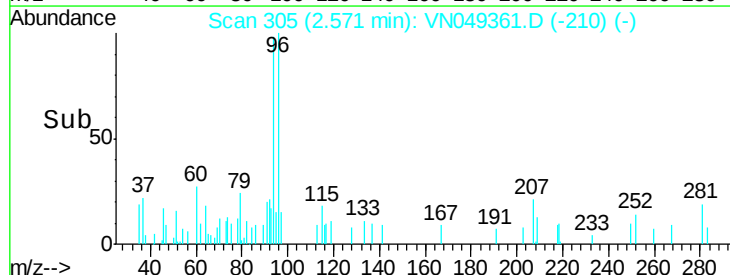
1500

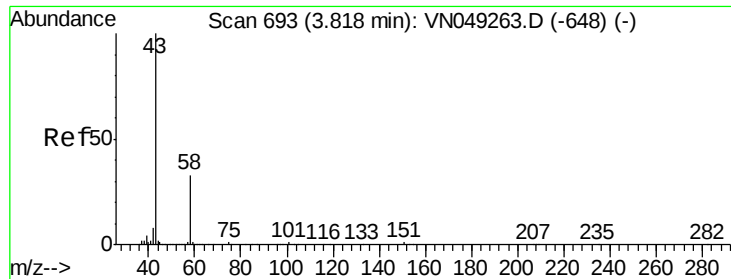
1000

500

0

Time-->





#16

Acetone

Concen: 0.28 ug/l

RT: 3.81 min Scan# 690

Delta R.T. -0.01 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

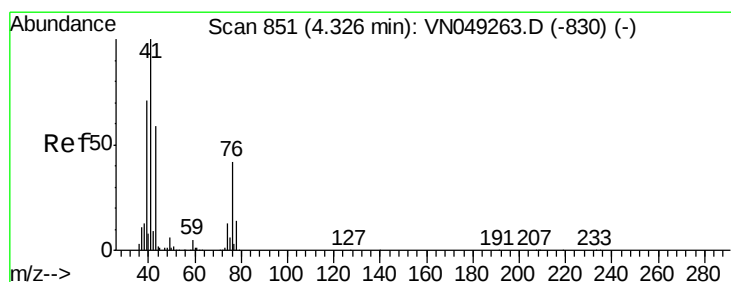
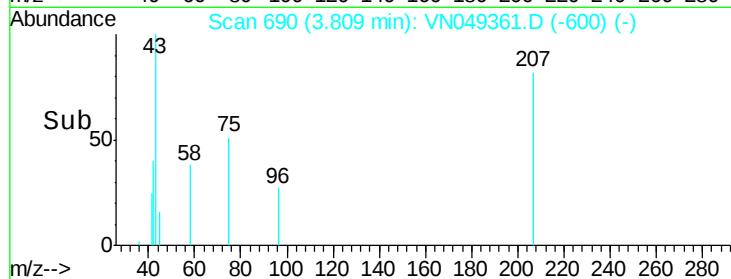
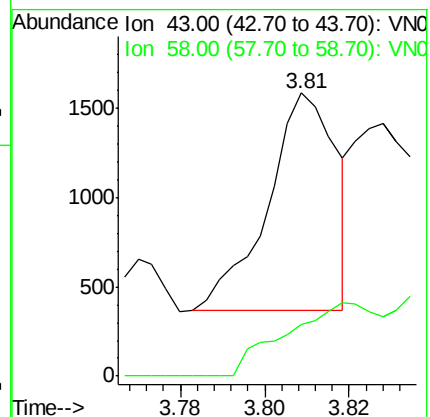
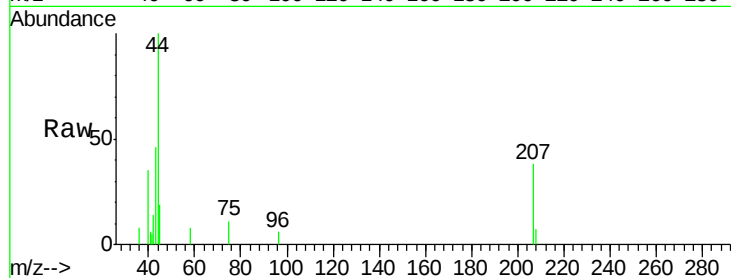
ClientSampled :

Tot Ion: 43 Resp: 1374

Ion Ratio Lower Upper

43 100

58 23.8 22.4 33.6



#18

Methyl Acetate

Concen: 3.11 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN049361.D

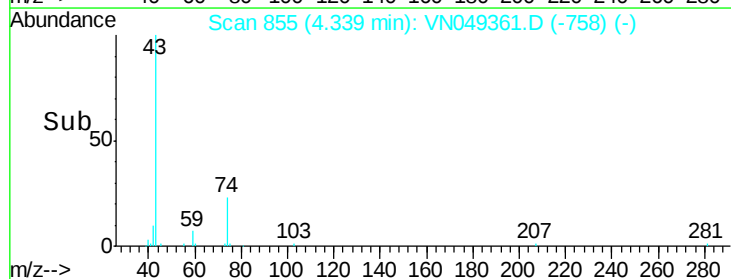
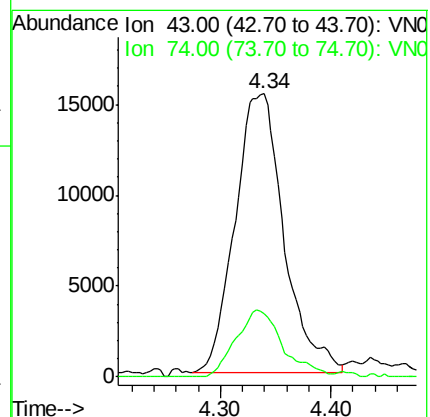
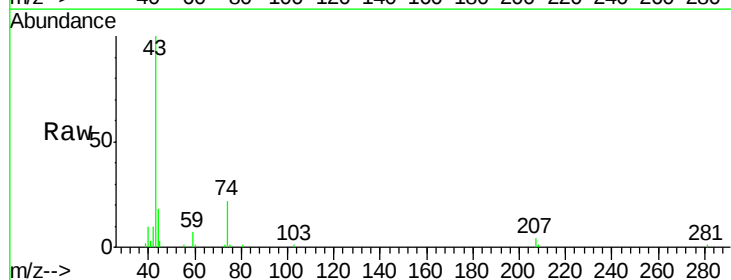
Acq: 18 Jun 2018 23:49

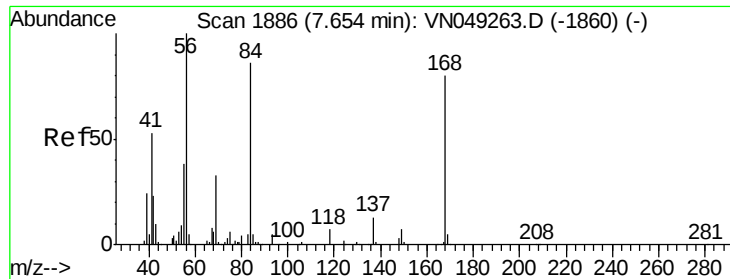
Tgt Ion: 43 Resp: 47323

Ion Ratio Lower Upper

43 100

74 22.9 17.4 26.0

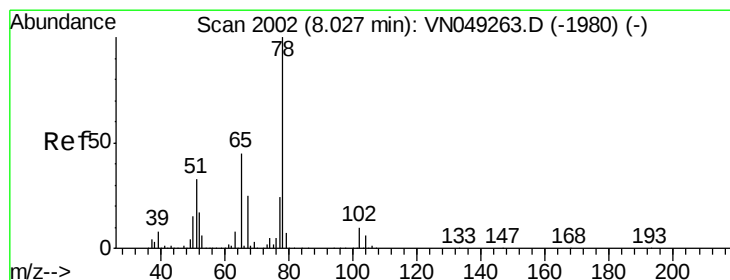
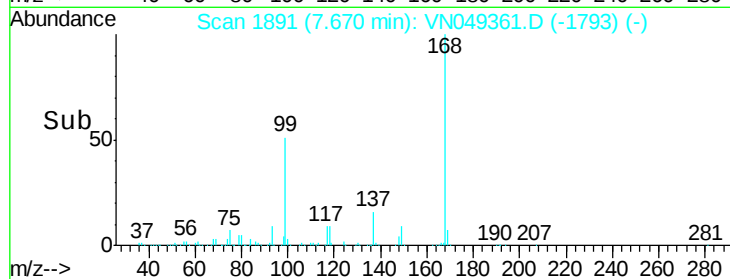
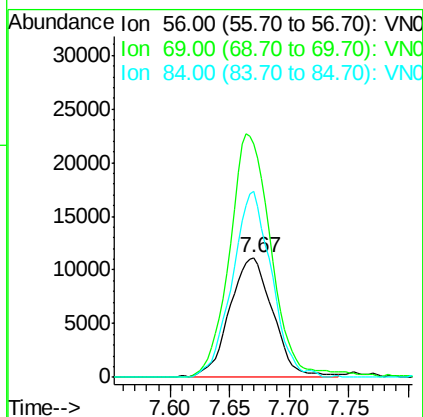
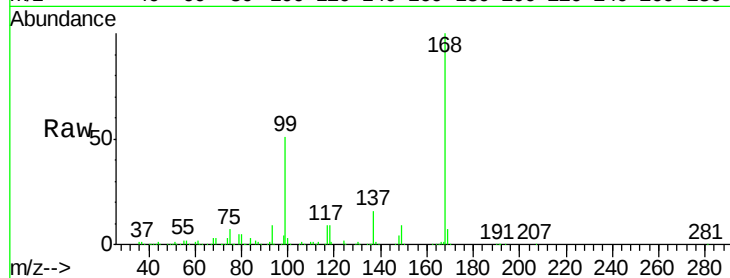




#31
Cyclohexane
Concen: 0.75 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN049361.D
Acq: 18 Jun 2018 23:49

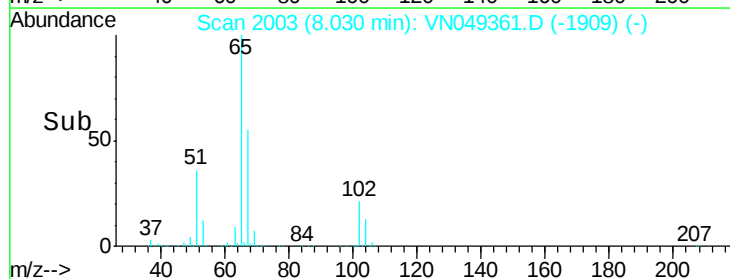
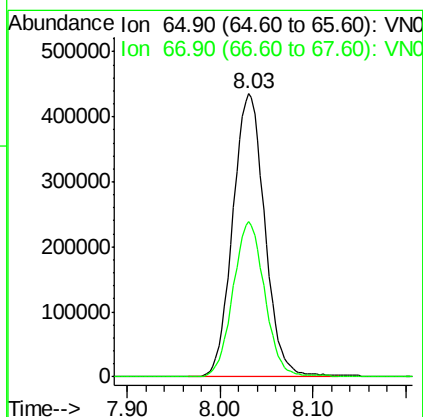
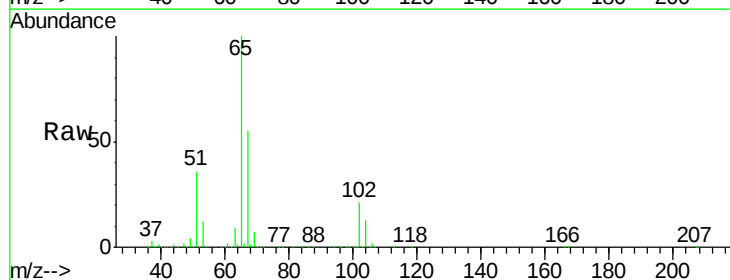
Instrument :
MSVOA_N
ClientSampled :

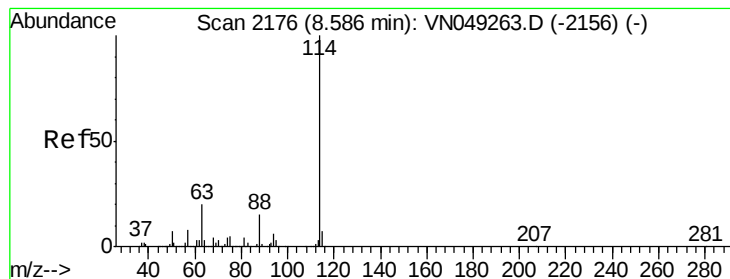
Tot Ion: 56 Resp: 28103
Ion Ratio Lower Upper
56 100
69 195.0 25.0 37.4#
84 153.9 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 50.78 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049361.D
Acq: 18 Jun 2018 23:49

Tgt Ion: 65 Resp: 1044566
Ion Ratio Lower Upper
65 100
67 54.4 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

ClientSampleId :

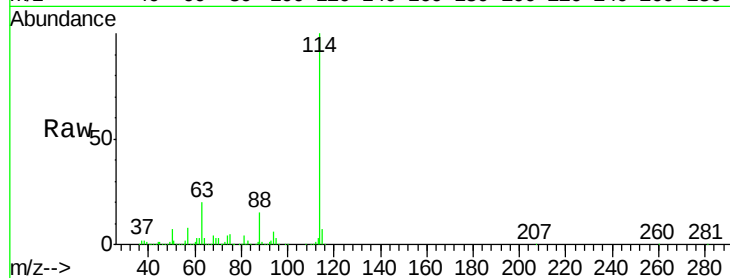
Tot Ion:114 Resp: 2455823

Ion Ratio Lower Upper

114 100

63 19.6 0.0 44.4

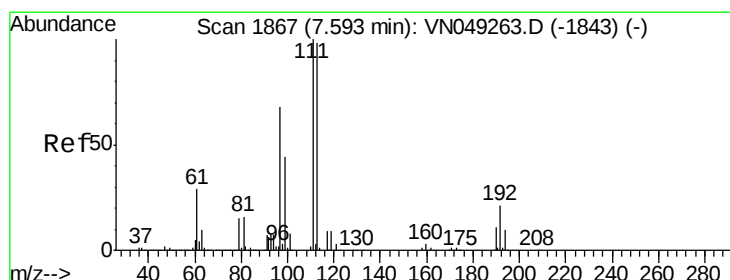
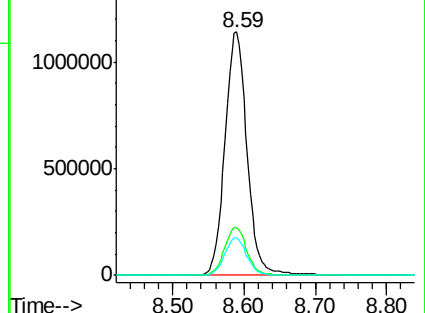
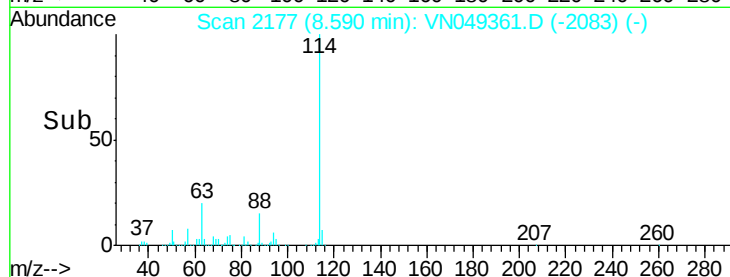
88 15.3 0.0 31.4



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: 46.34 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

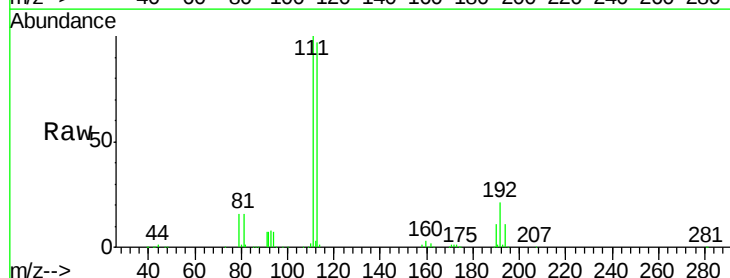
Tgt Ion:113 Resp: 920636

Ion Ratio Lower Upper

113 100

111 103.8 82.4 123.6

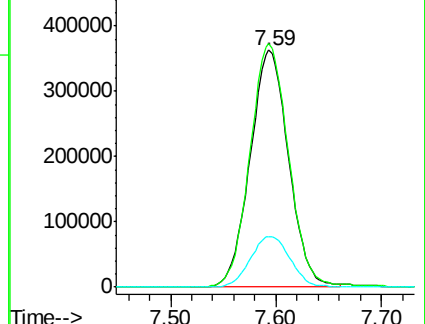
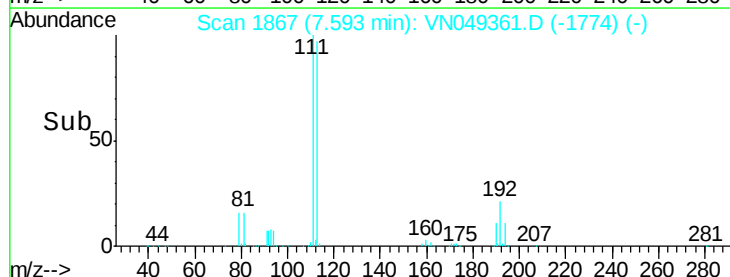
192 22.3 15.0 22.6

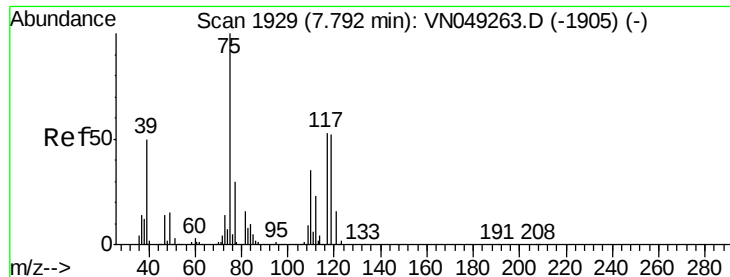


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.85 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :
MSVOA_N
ClientSampleId :

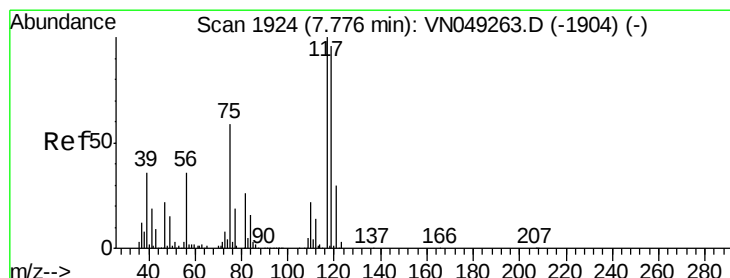
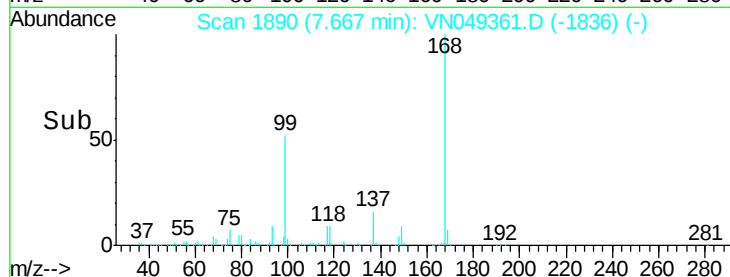
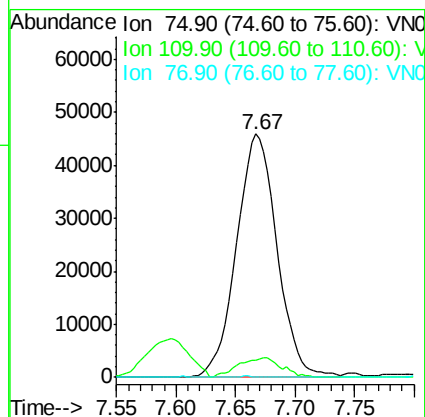
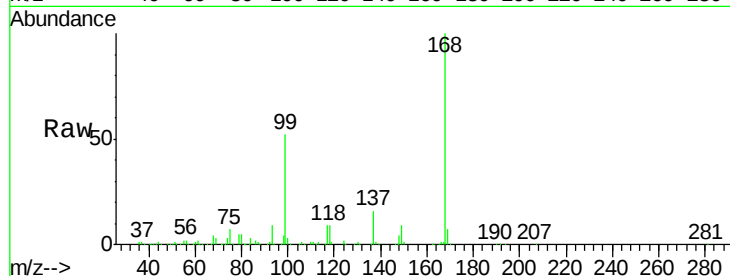
Tot Ion: 75 Resp: 108308

Ion Ratio Lower Upper

75 100

110 8.6 17.0 50.9#

77 0.2 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.80 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

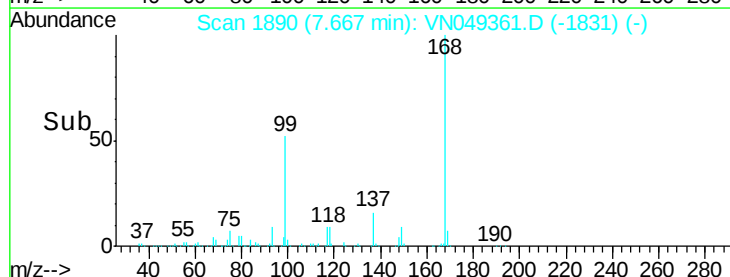
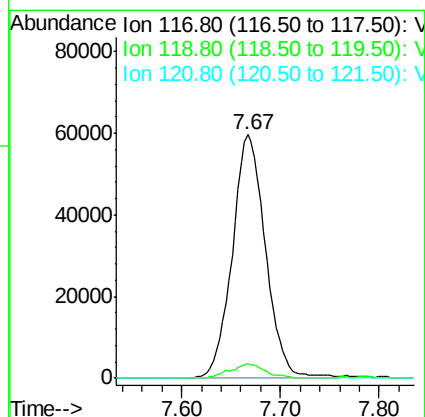
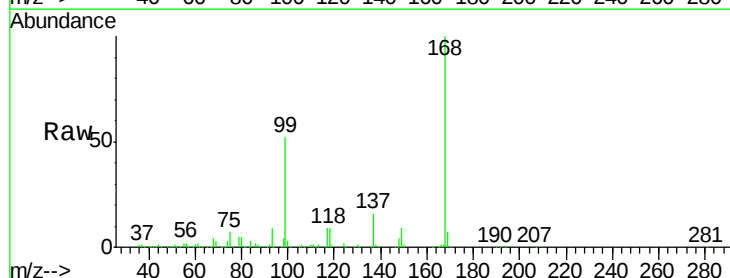
Tgt Ion: 117 Resp: 139776

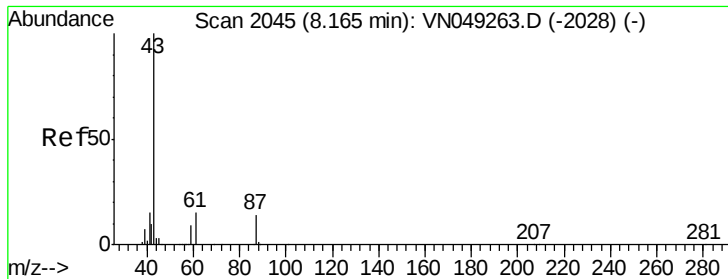
Ion Ratio Lower Upper

117 100

119 5.8 75.6 113.4#

121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 6.42 ug/l

RT: 8.27 min Scan# 2077

Delta R.T. 0.10 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

ClientSampleId :

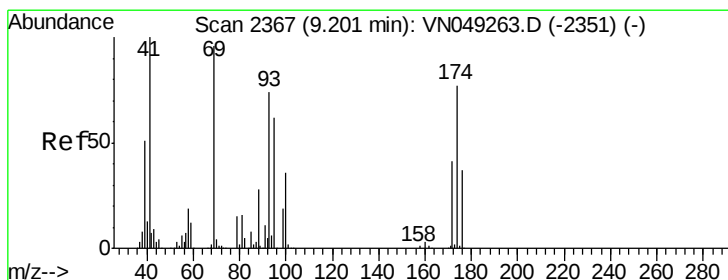
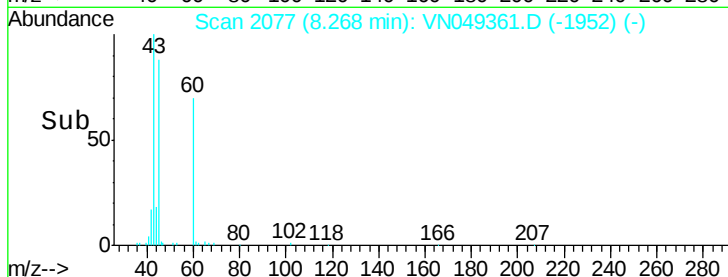
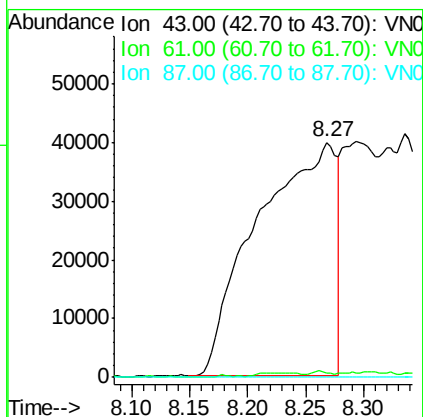
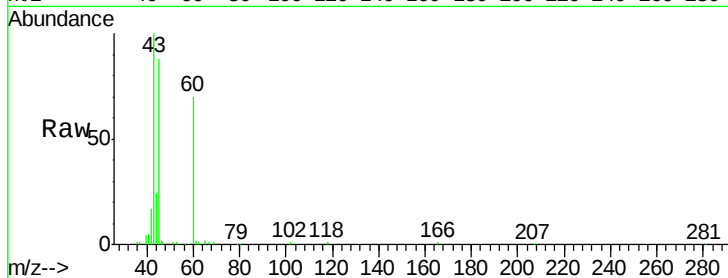
Tot Ion: 43 Resp: 187570

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

87 0.0 9.4 14.0#



#49

1,4-Dioxane

Concen: 0.52 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

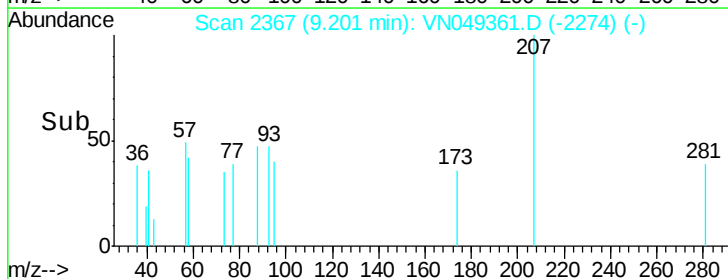
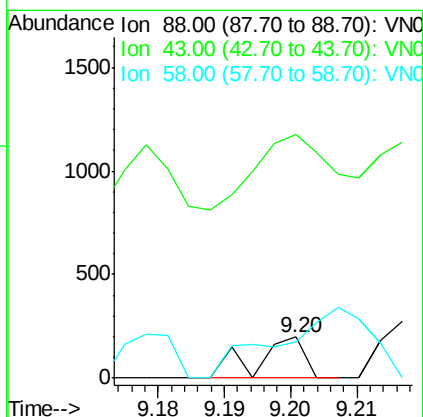
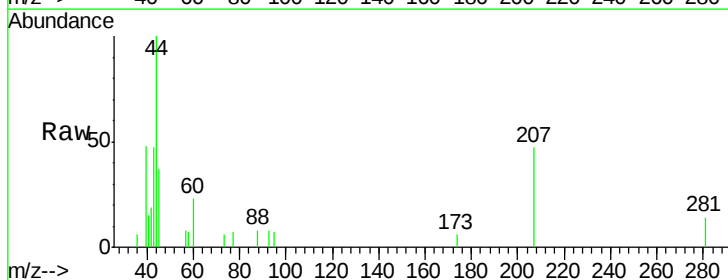
Tgt Ion: 88 Resp: 99

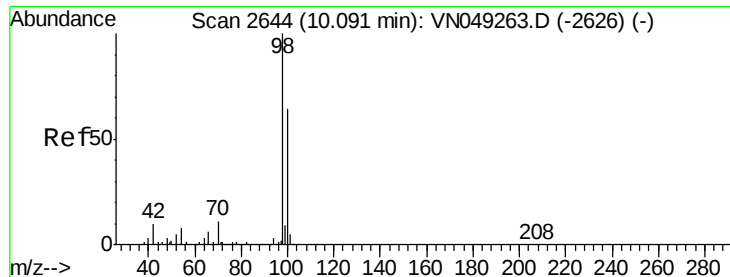
Ion Ratio Lower Upper

88 100

43 305.1 30.9 46.3#

58 334.3 58.9 88.3#





#50

Toluene-d8

Concen: 45.20 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

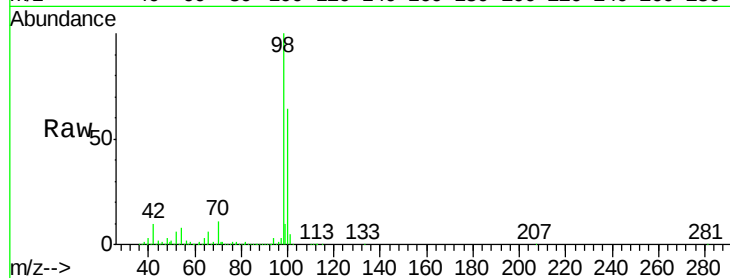
ClientSampled :

Tot Ion: 98 Resp: 3419600

Ion Ratio Lower Upper

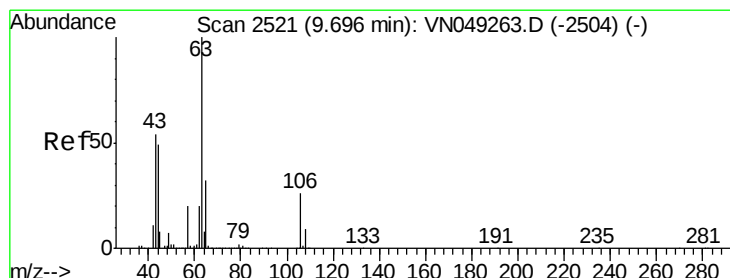
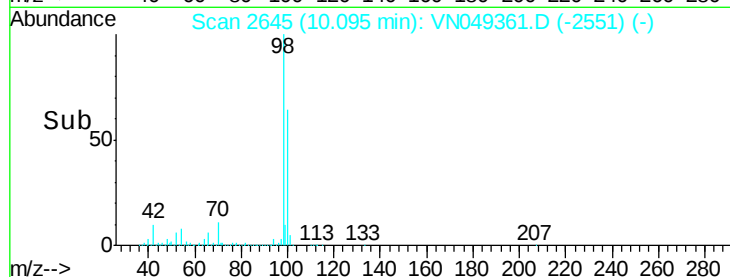
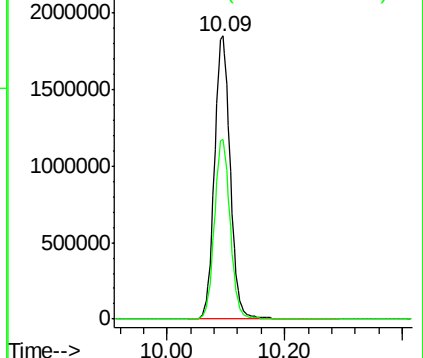
98 100

100 63.5 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#58

2-Chloroethyl Vinyl ether

Concen: 14.36 ug/l

RT: 9.69 min Scan# 2520

Delta R.T. -0.00 min

Lab File: VN049361.D

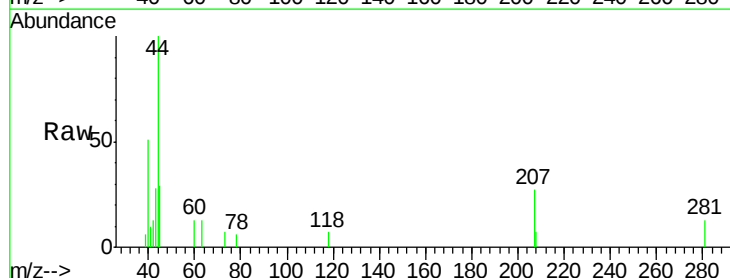
Acq: 18 Jun 2018 23:49

Tgt Ion: 63 Resp: 291

Ion Ratio Lower Upper

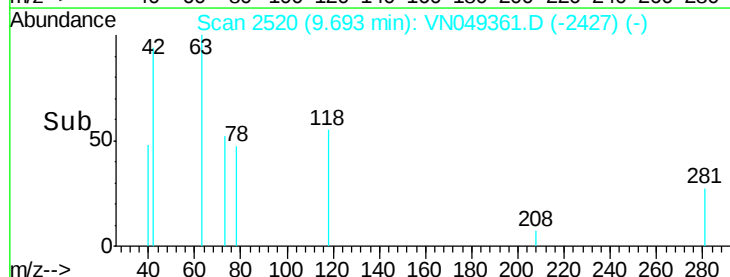
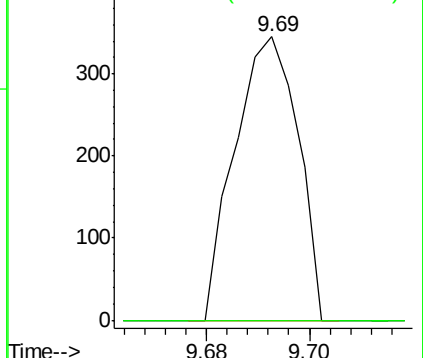
63 100

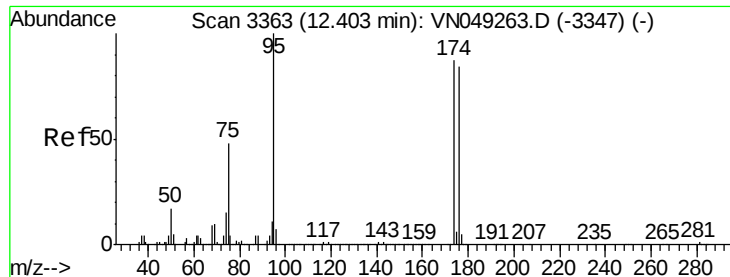
106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 36.81 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

ClientSampleId :

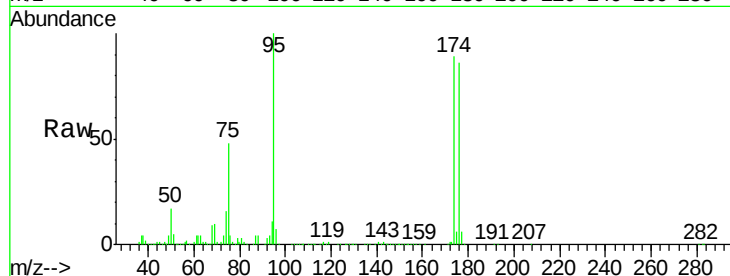
Tot Ion: 95 Resp: 920722

Ion Ratio Lower Upper

95 100

174 89.0 0.0 165.6

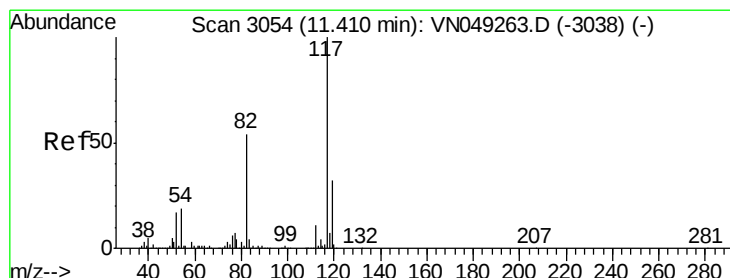
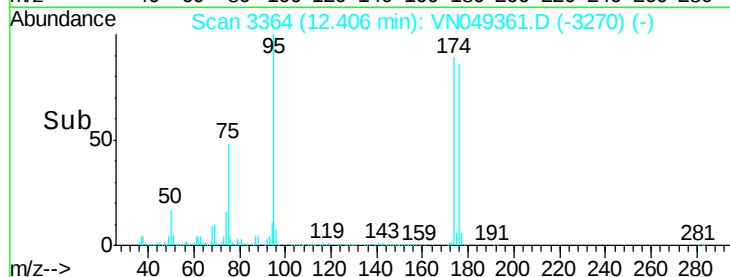
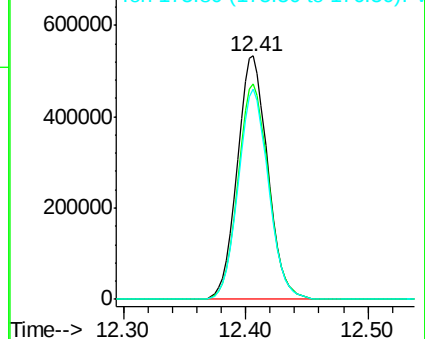
176 85.7 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

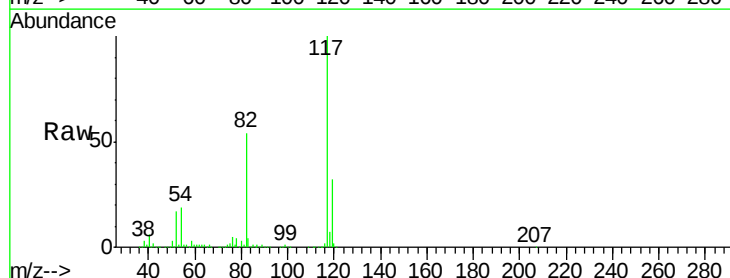
Tgt Ion: 117 Resp: 2072245

Ion Ratio Lower Upper

117 100

82 53.8 45.9 68.9

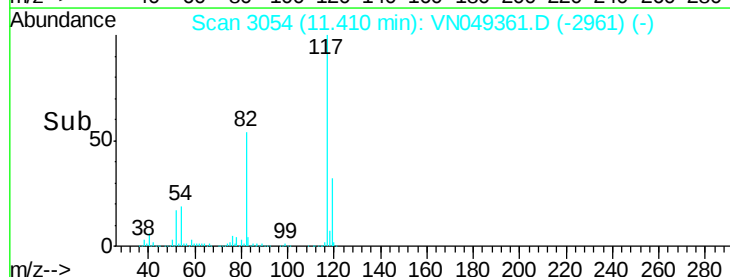
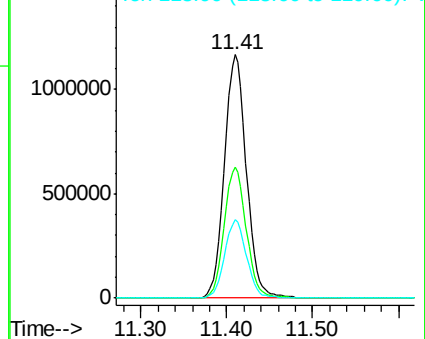
119 32.0 25.5 38.3

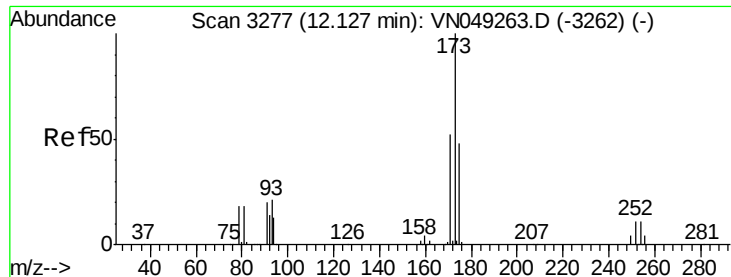


Abundance Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)





#71

Bromoform

Concen: 0.50 ug/l

RT: 12.41 min Scan# 3365

Delta R.T. 0.28 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

ClientSampled :

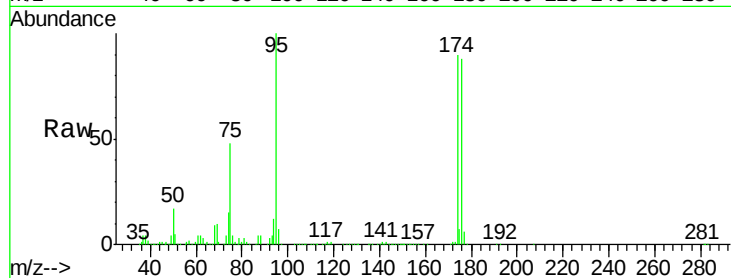
Tot Ion:173 Resp: 6440

Ion Ratio Lower Upper

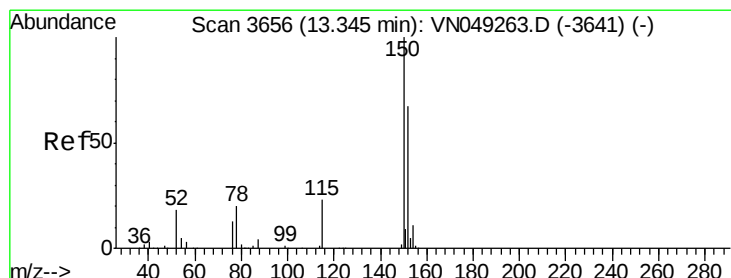
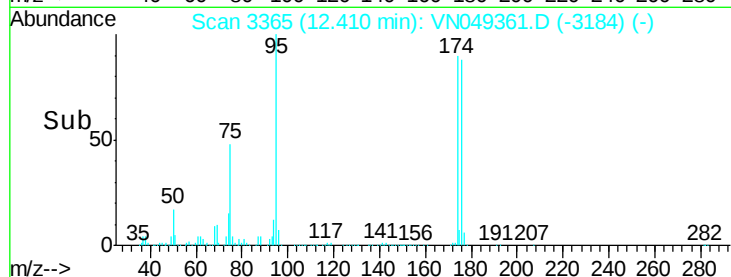
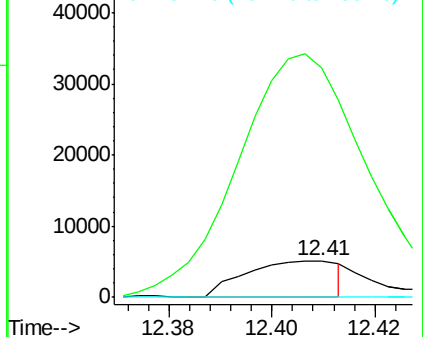
173 100

175 701.5 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: VN049361.D

Acq: 18 Jun 2018 23:49

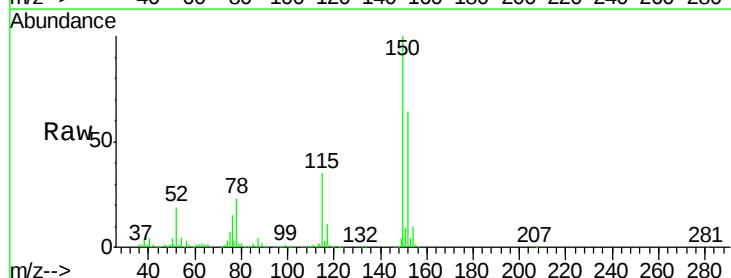
Tgt Ion:152 Resp: 677372

Ion Ratio Lower Upper

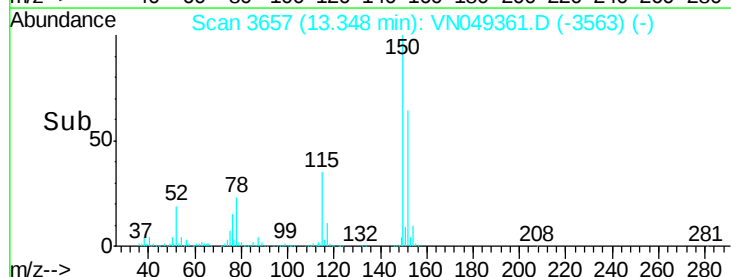
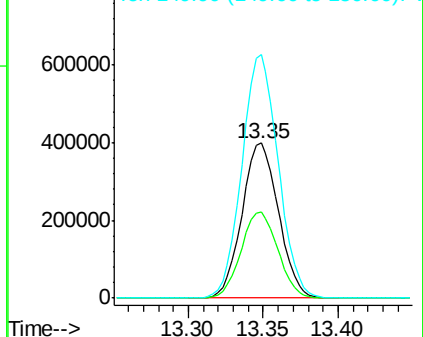
152 100

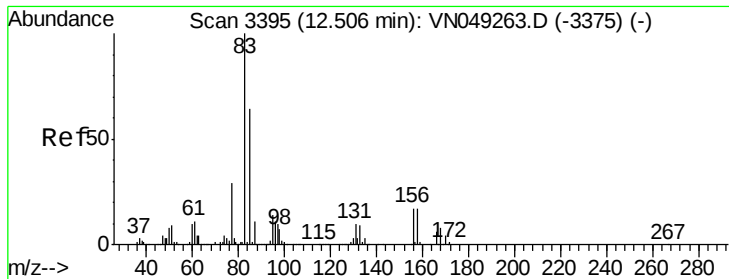
115 56.0 28.7 86.1

150 156.2 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: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

ClientSampleId :

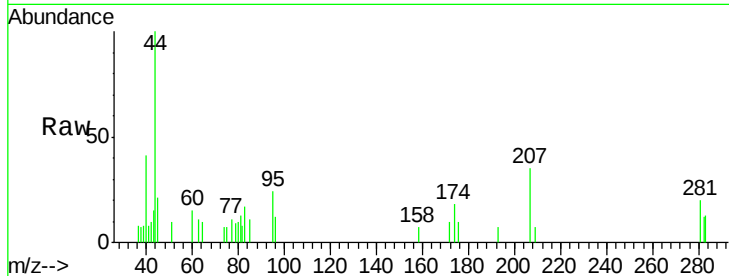
Tot Ion: 83 Resp: 621

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

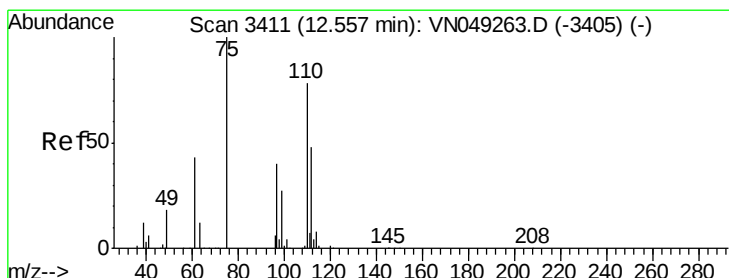
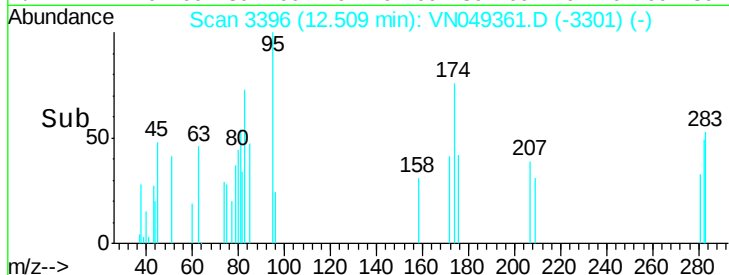
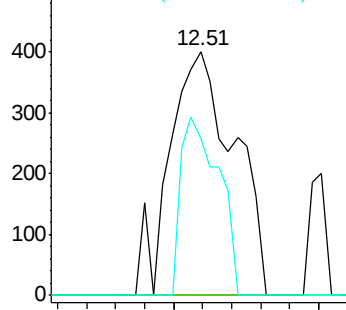
85 43.2 32.0 96.0



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 38.55 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049361.D

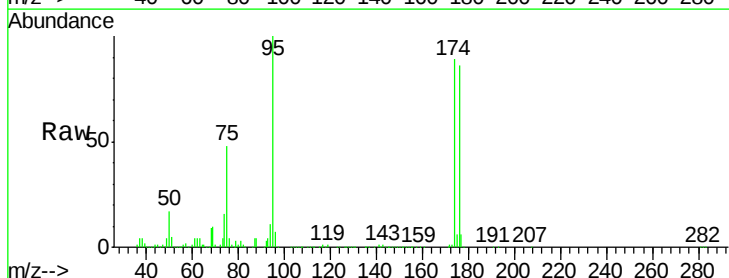
Acq: 18 Jun 2018 23:49

Tgt Ion: 75 Resp: 445558

Ion Ratio Lower Upper

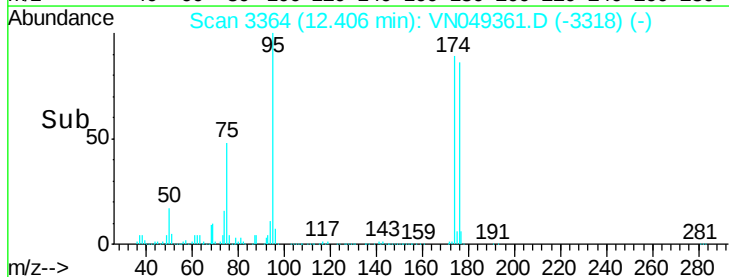
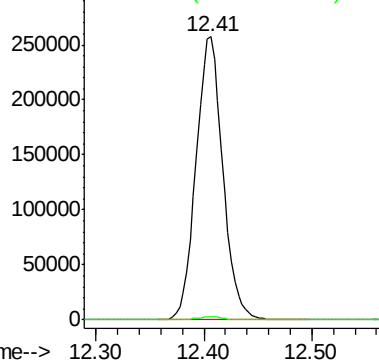
75 100

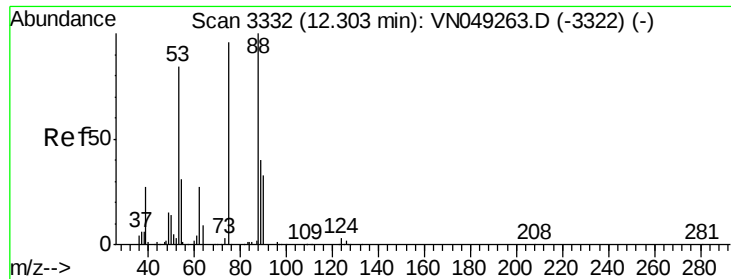
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 121.84 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

ClientSampleId :

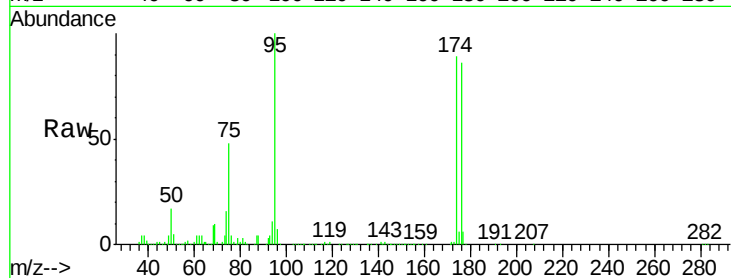
Tot Ion: 75 Resp: 445558

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

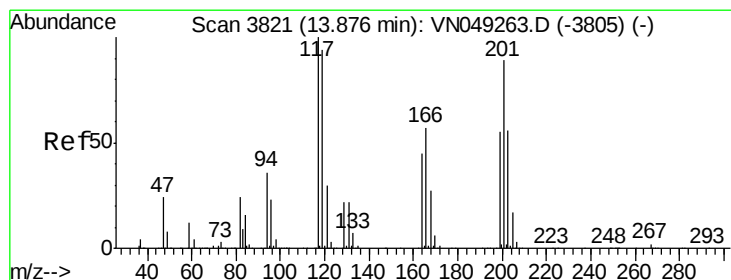
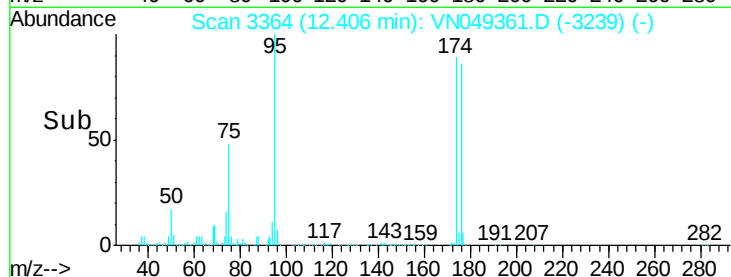
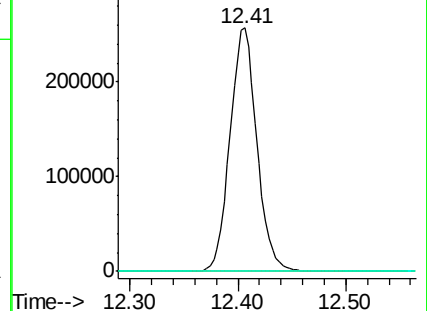
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049361.D (-3364) (-)

Ion 53.00 (52.70 to 53.70): VN049361.D (-3364) (-)

Ion 88.90 (88.60 to 89.60): VN049361.D (-3364) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.94 min Scan# 3842

Delta R.T. 0.07 min

Lab File: VN049361.D

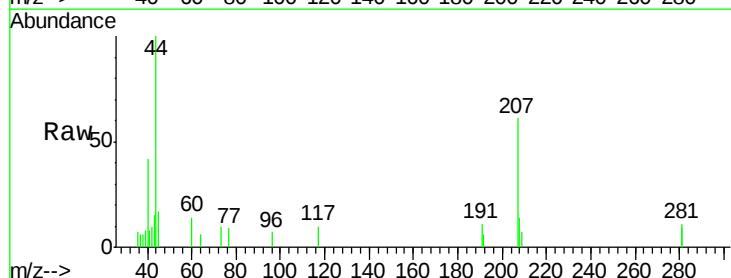
Acq: 18 Jun 2018 23:49

Tgt Ion: 117 Resp: 128

Ion Ratio Lower Upper

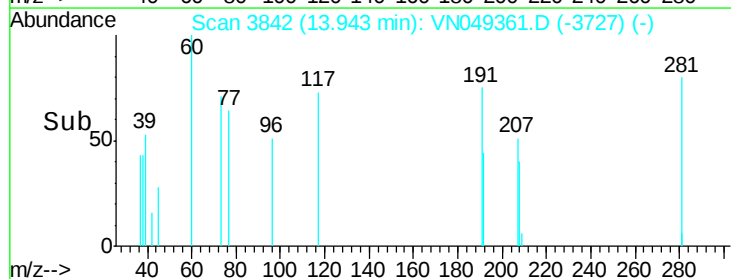
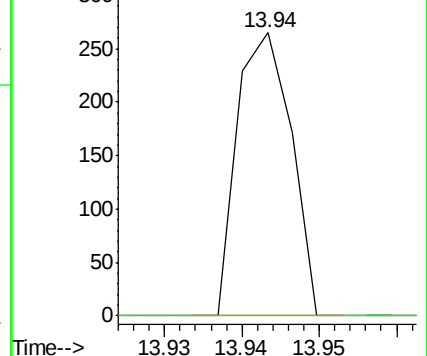
117 100

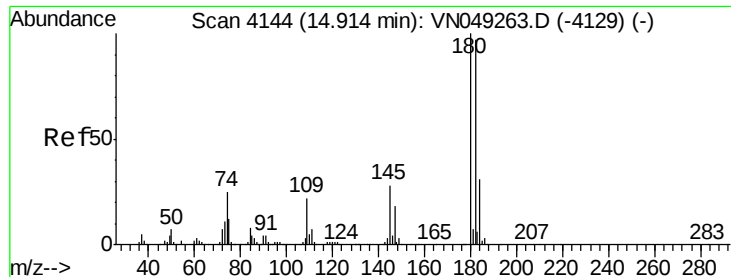
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049361.D (-3842) (-)

Ion 200.70 (200.40 to 201.40): VN049361.D (-3842) (-)

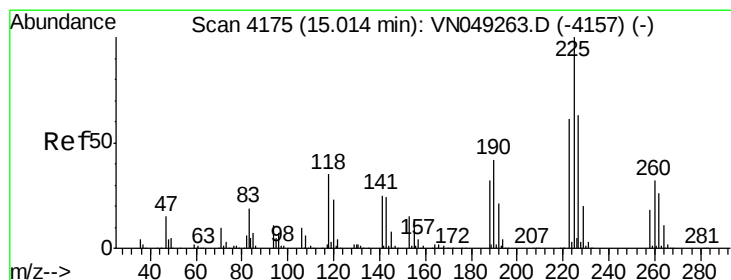
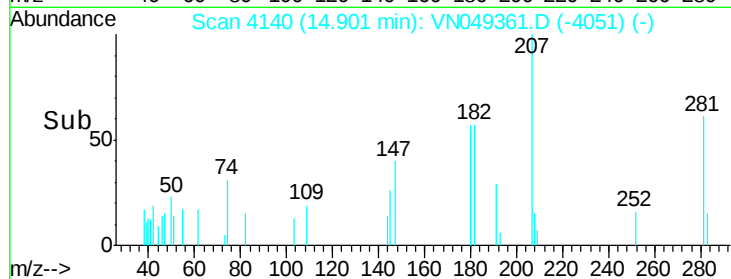
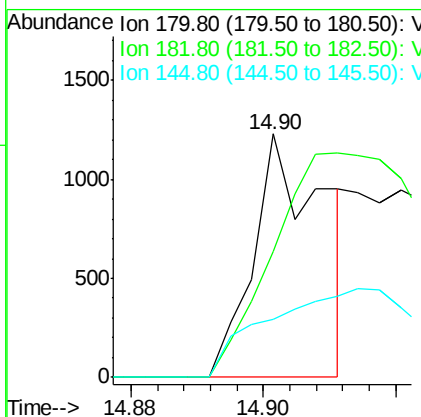
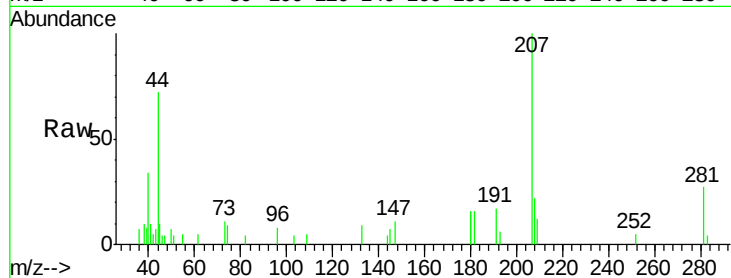




#93
 1,2,4-Trichlorobenzene
 Concen: 4.81 ug/l
 RT: 14.90 min Scan# 4140
 Delta R.T. -0.01 min
 Lab File: VN049361.D
 Acq: 18 Jun 2018 23:49

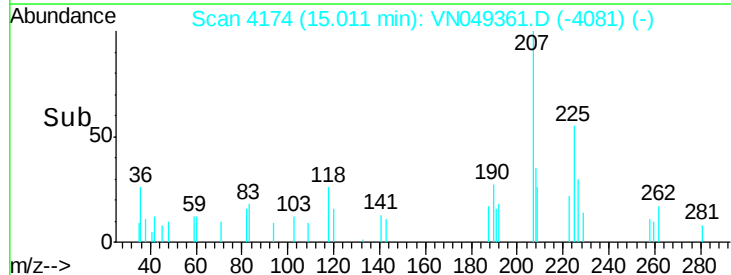
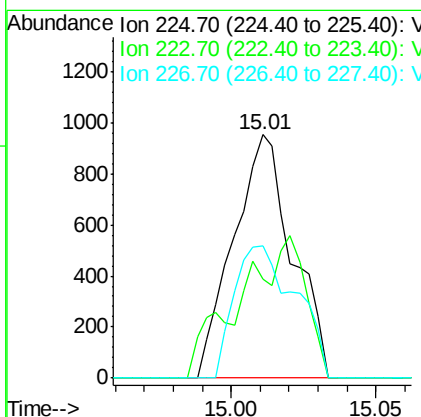
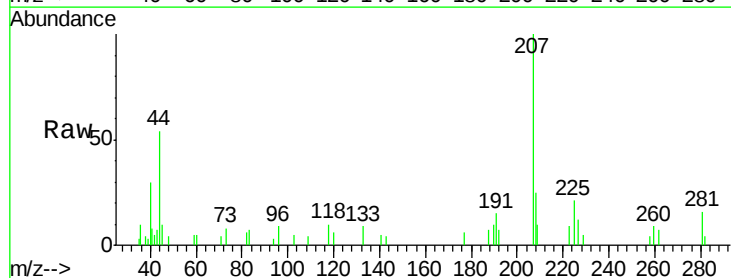
Instrument :
 MSVOA_N
 ClientSampleID :

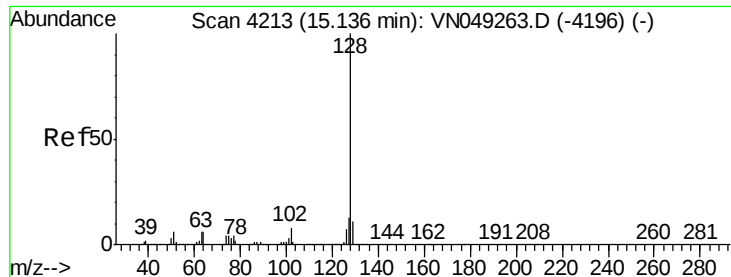
Tot Ion:180 Resp: 909
 Ion Ratio Lower Upper
 180 100
 182 209.5 46.9 140.8#
 145 87.3 14.7 44.1#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049361.D
 Acq: 18 Jun 2018 23:49

Tgt Ion:225 Resp: 1344
 Ion Ratio Lower Upper
 225 100
 223 22.2 32.1 96.3#
 227 56.7 31.8 95.3





#95

Naphthalene

Concen: 2.39 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

Instrument :

MSVOA_N

ClientSampleId :

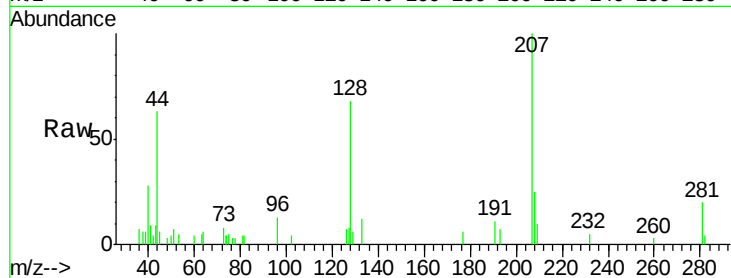
Tot Ion:128 Resp: 5827

Ion Ratio Lower Upper

128 100

127 7.9 10.6 16.0#

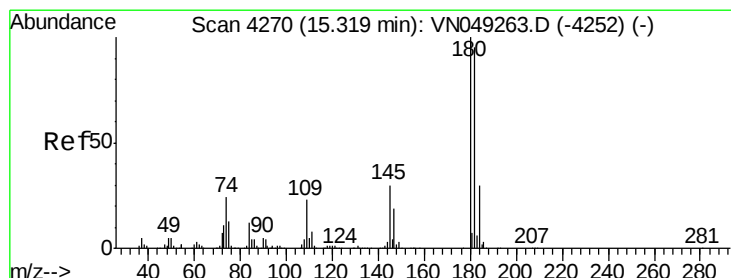
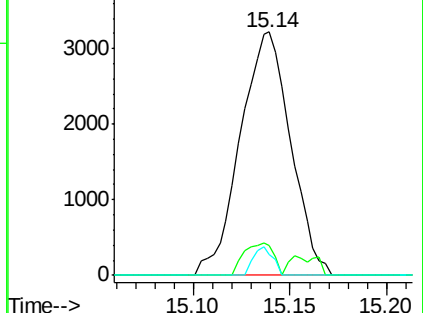
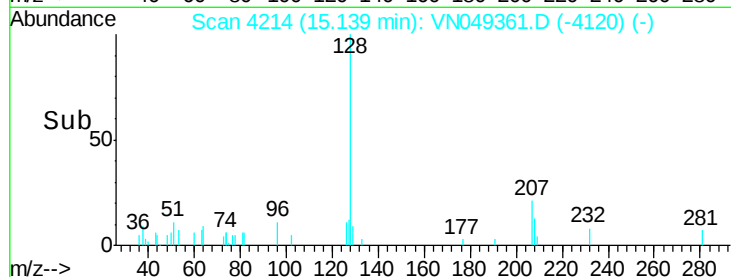
129 4.6 8.5 12.7#



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: 3.70 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049361.D

Acq: 18 Jun 2018 23:49

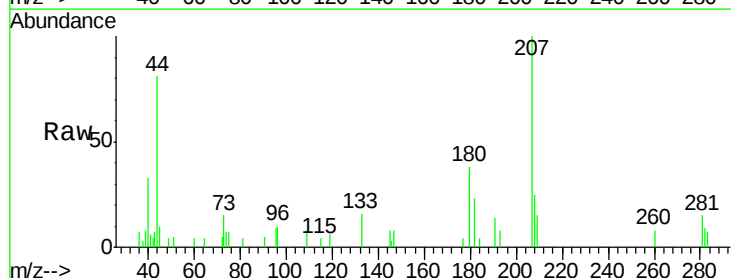
Tgt Ion:180 Resp: 2924

Ion Ratio Lower Upper

180 100

182 74.8 47.3 141.8

145 16.8 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

