

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080118\
 Data File : VN050244.D
 Acq On : 1 Aug 2018 13:05
 Operator : MD\SY
 Sample : J4256-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-32

Quant Time: Aug 02 00:53:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	676908	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1091765	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	895752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	348384	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	472841	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
35) Dibromofluoromethane	7.59	113	420493	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	10.09	98	1475145	45.01	ug/l	0.00
Spiked Amount			Recovery	=	90.02%	
62) 4-Bromofluorobenzene	12.40	95	415374	38.49	ug/l	0.00
Spiked Amount			Recovery	=	76.98%	

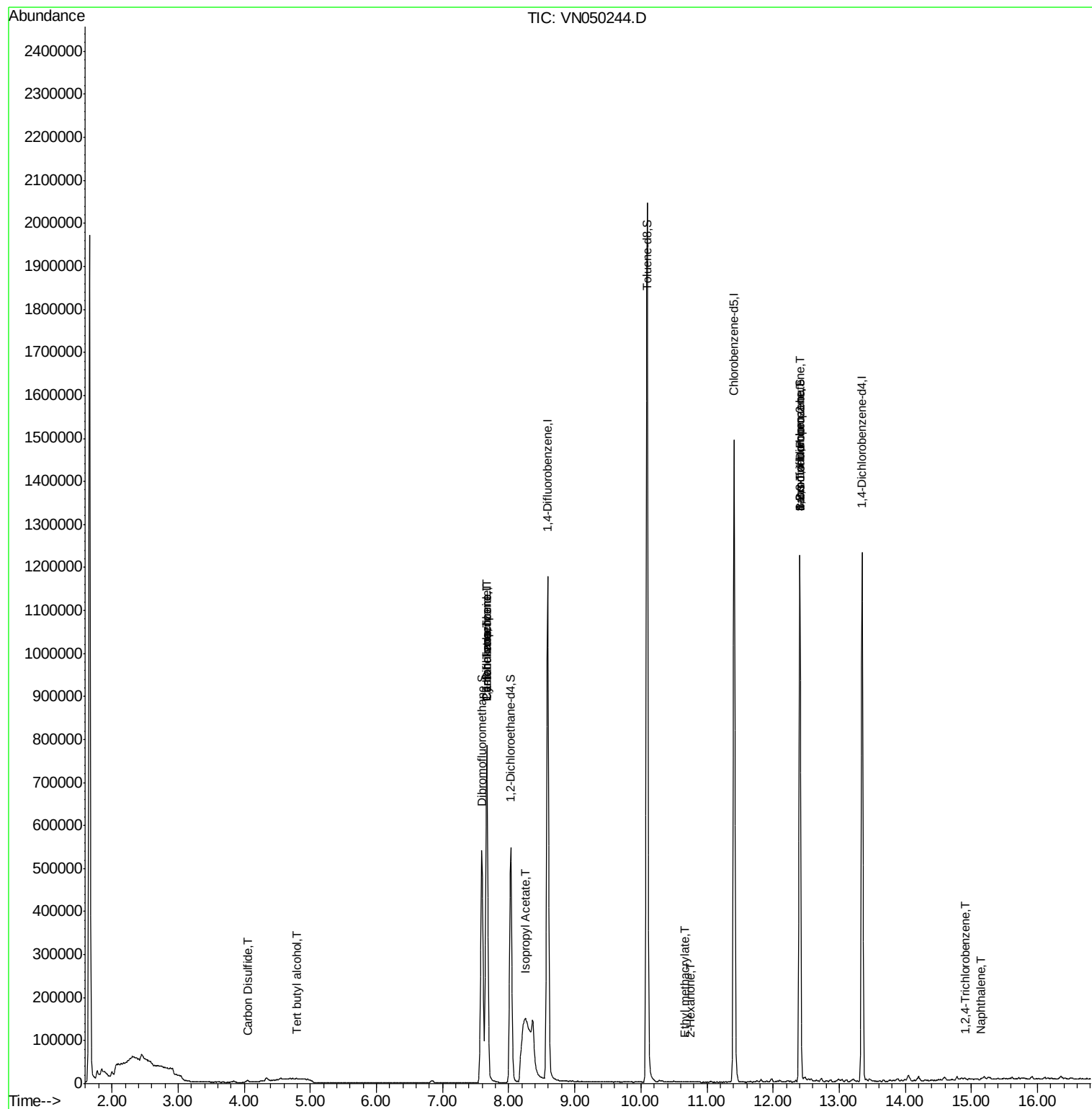
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	607	Below Cal	#	80
11) Tert butyl alcohol	4.81	59	347	0.50	ug/l #	72
16) Acetone	3.82	43	5090	Below Cal	#	77
17) Carbon Disulfide	4.05	76	10334	0.43	ug/l #	92
18) Methyl Acetate	4.33	43	13871	Below Cal		95
20) Methylene Chloride	4.55	84	1524	Below Cal	#	85
31) Cyclohexane	7.67	56	12468	0.89	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46691	3.80	ug/l #	48
38) Carbon Tetrachloride	7.67	117	60055	4.60	ug/l #	16
43) Isopropyl Acetate	8.26	43	383147	23.10	ug/l #	61
56) Ethyl methacrylate	10.66	69	63	2.04	ug/l #	1
59) 2-Hexanone	10.76	43	135	5.20	ug/l #	24
71) Bromoform	12.40	173	3289	0.52	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	414	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	201862	31.18	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	201862	98.89	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.49	75	33	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	99	3.10	ug/l #	1
95) Naphthalene	15.14	128	1035	4.47	ug/l #	89

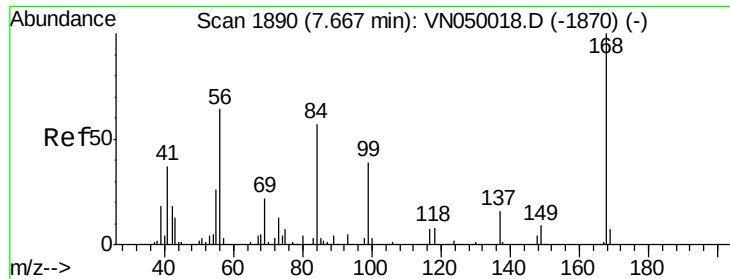
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampled :

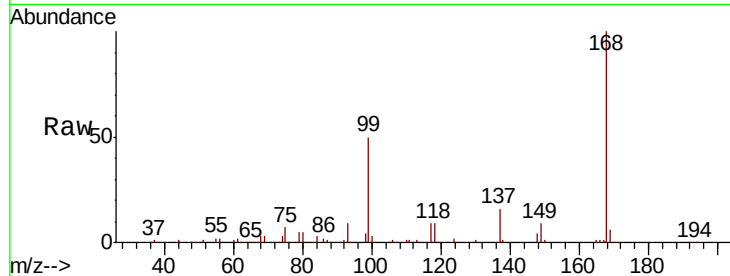
MW-32

Tot Ion:168 Resp: 676908

Ion Ratio Lower Upper

168 100

99 50.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

150000

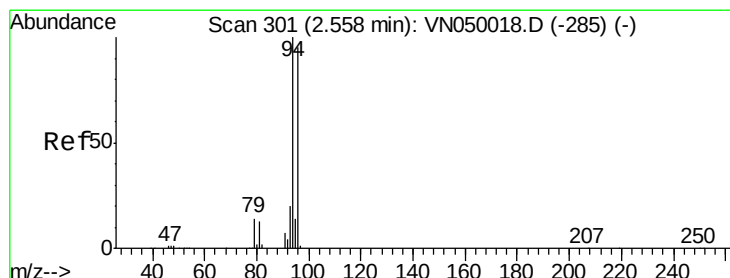
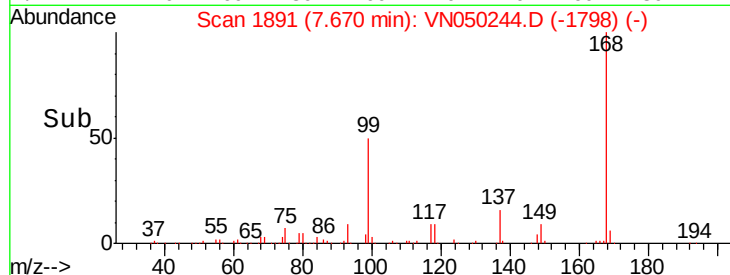
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050244.D

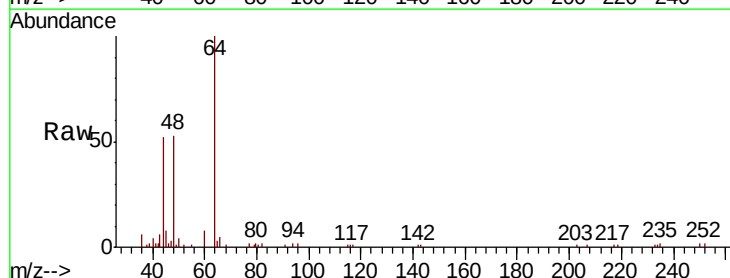
Acq: 1 Aug 2018 13:05

Tgt Ion: 94 Resp: 607

Ion Ratio Lower Upper

94 100

96 73.9 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

400

300

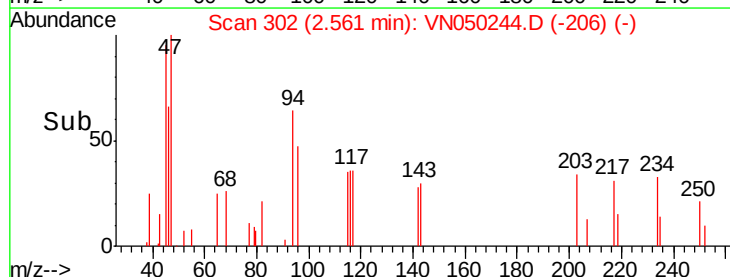
200

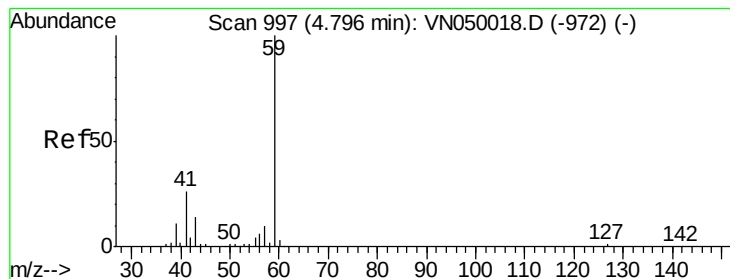
100

0

Time-->

2.52 2.54 2.56 2.58 2.60





#11

Tert butyl alcohol

Concen: 0.50 ug/l

RT: 4.81 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampled :

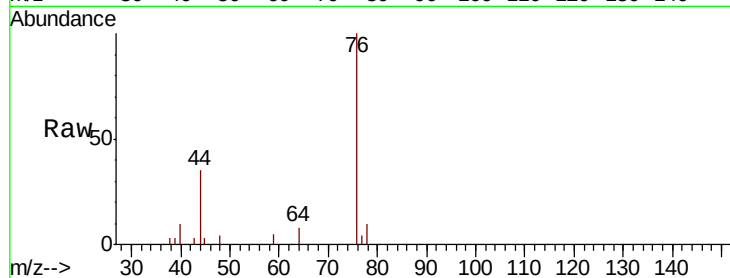
MW-32

Tot Ion: 59 Resp: 347

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.81

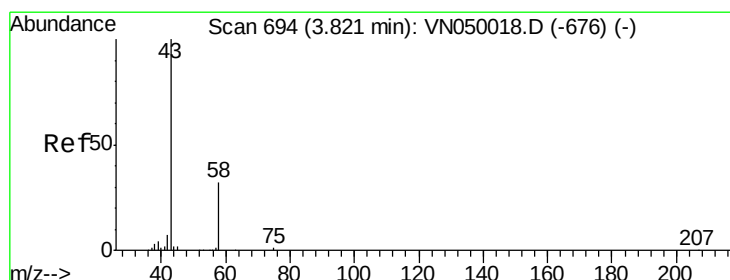
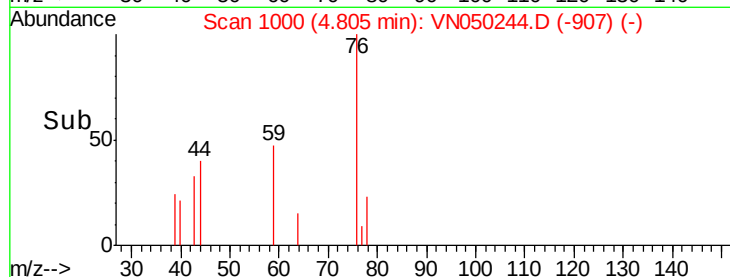
300

200

100

0

Time--> 4.78 4.80 4.82



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050244.D

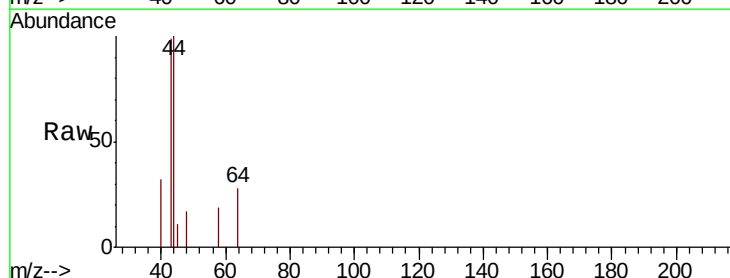
Acq: 1 Aug 2018 13:05

Tgt Ion: 43 Resp: 5090

Ion Ratio Lower Upper

43 100

58 19.4 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

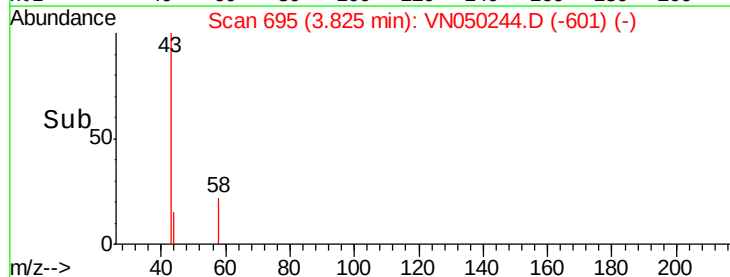
1500

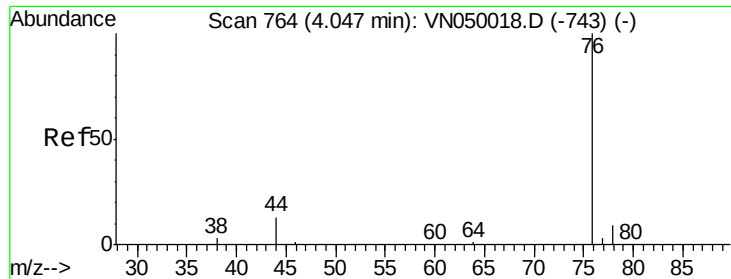
1000

500

0

Time--> 3.75 3.80 3.85 3.90

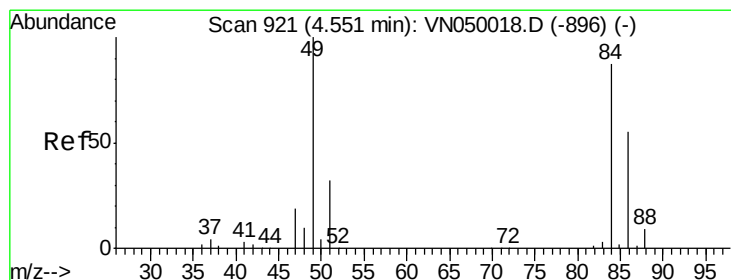
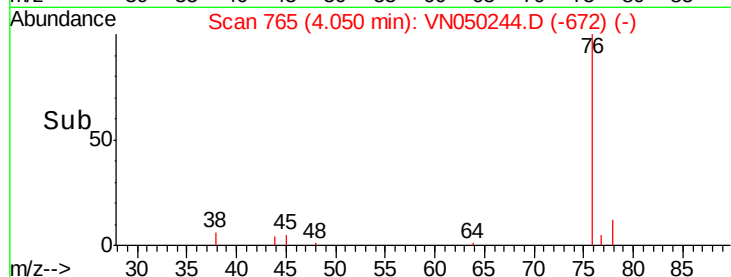
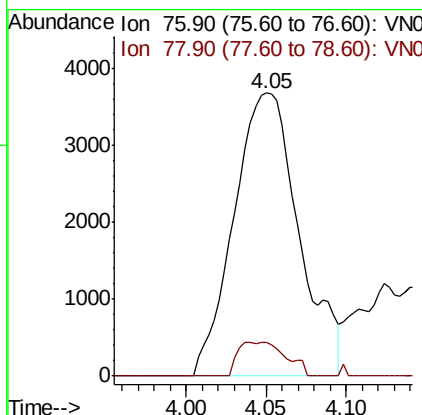
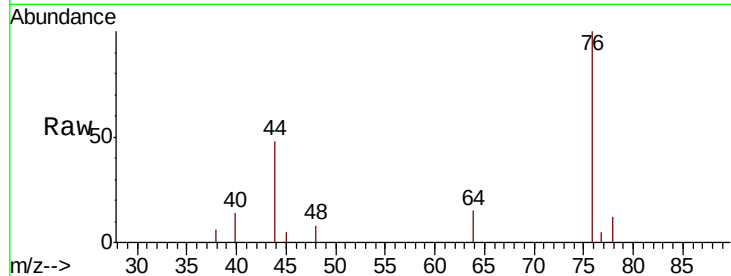




#17
Carbon Disulfide
Concen: 0.43 ua/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN050244.D
Acq: 1 Aug 2018 13:05

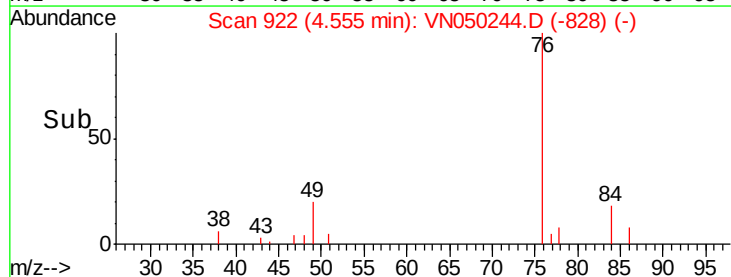
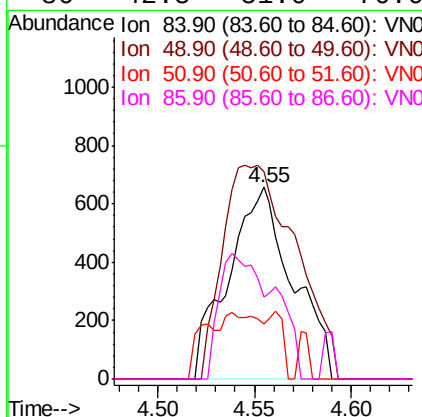
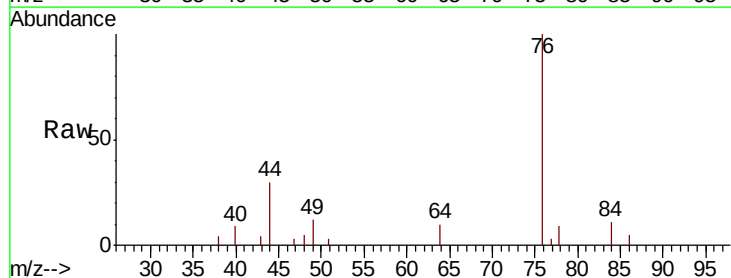
Instrument :
MSVOA_N
ClientSampled :
MW-32

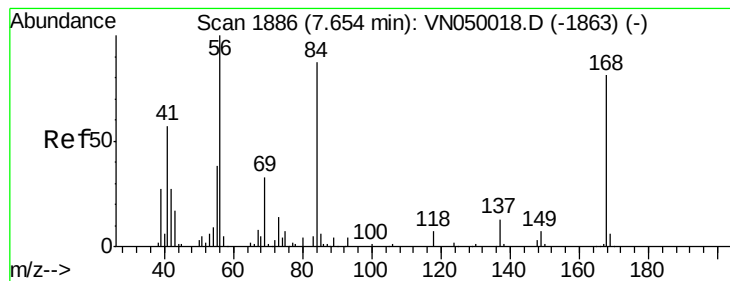
Tot Ion: 76 Resp: 10334
Ion Ratio Lower Upper
76 100
78 11.8 7.3 10.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050244.D
Acq: 1 Aug 2018 13:05

Tgt Ion: 84 Resp: 1524
Ion Ratio Lower Upper
84 100
49 108.5 94.8 142.2
51 28.5 28.3 42.5
86 42.5 51.0 76.6#





#31

Cyclohexane

Concen: 0.89 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampleId :

MW-32

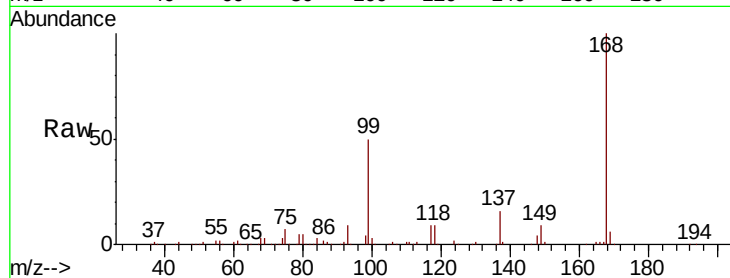
Tot Ion: 56 Resp: 12468

Ion Ratio Lower Upper

56 100

69 186.5 26.2 39.4#

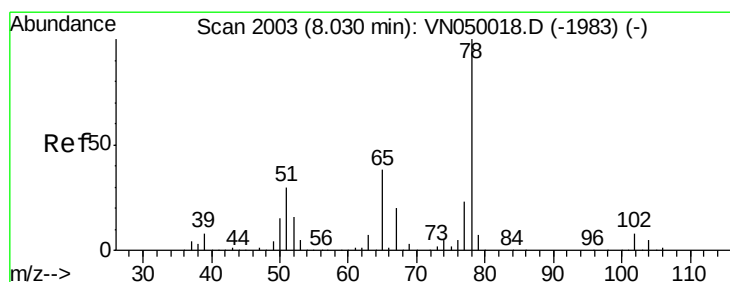
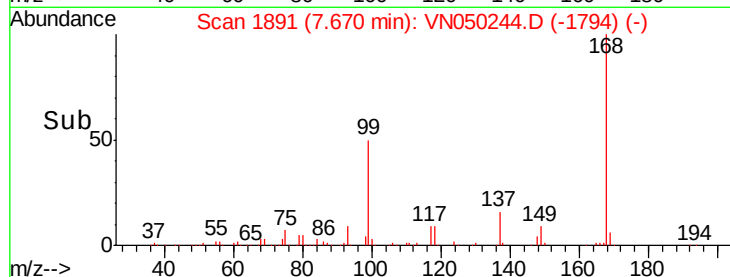
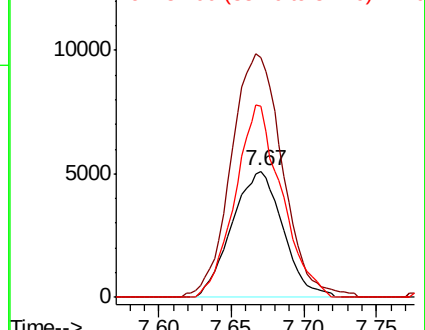
84 151.2 67.4 101.0#



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: 50.07 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050244.D

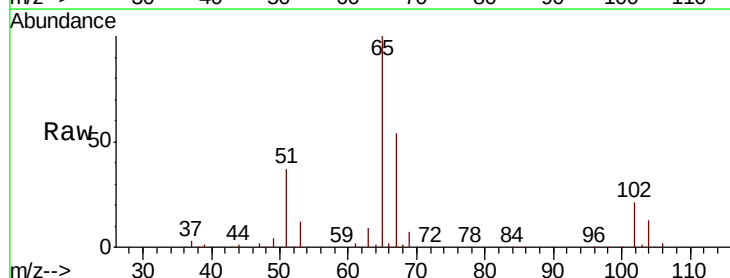
Acq: 1 Aug 2018 13:05

Tgt Ion: 65 Resp: 472841

Ion Ratio Lower Upper

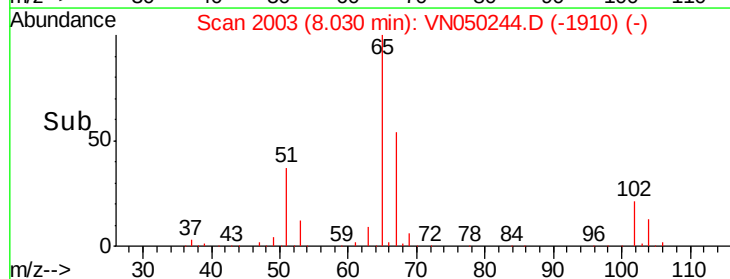
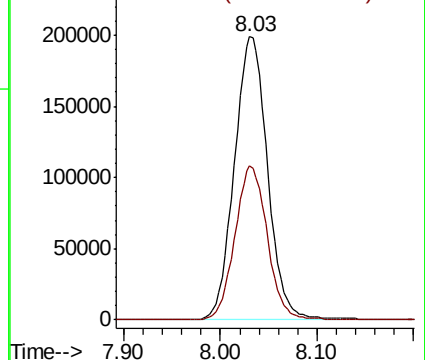
65 100

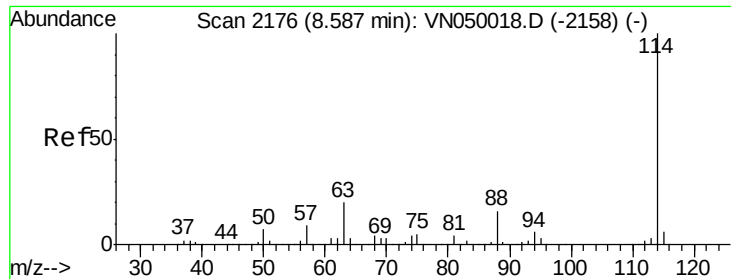
67 53.3 0.0 108.4



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# 2177

Delta R.T. 0.00 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampleId :

MW-32

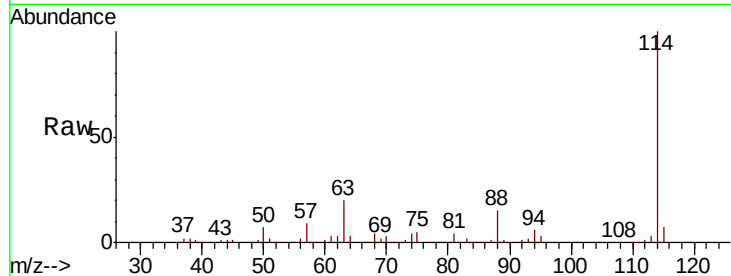
Tot Ion:114 Resp: 1091765

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

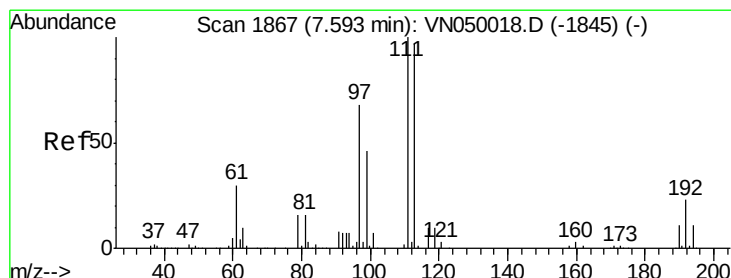
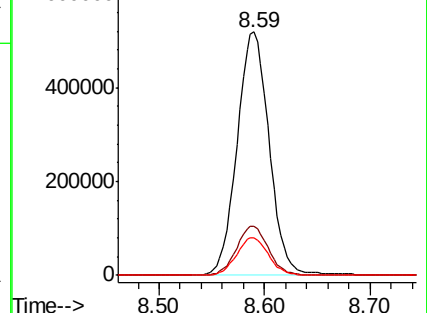
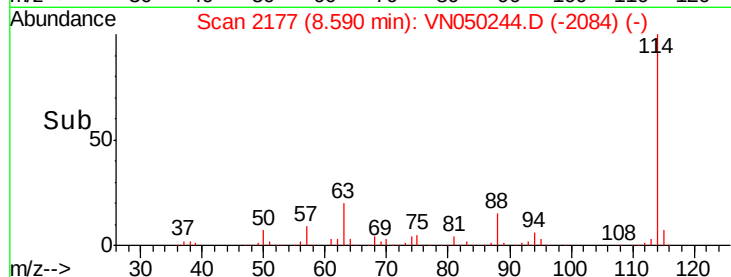
88 15.3 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 47.17 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

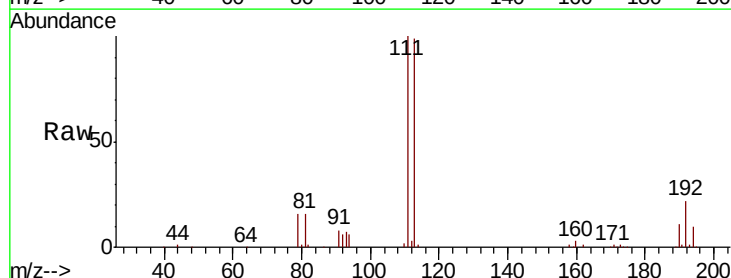
Tgt Ion:113 Resp: 420493

Ion Ratio Lower Upper

113 100

111 102.5 80.7 121.1

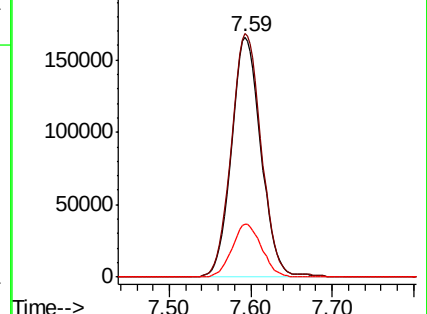
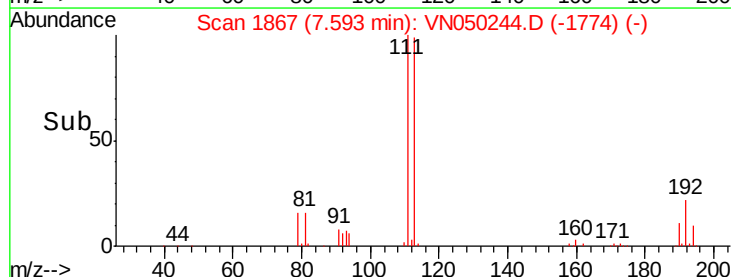
192 22.2 17.8 26.6

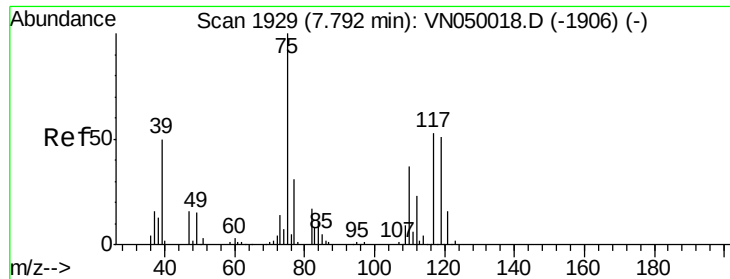


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

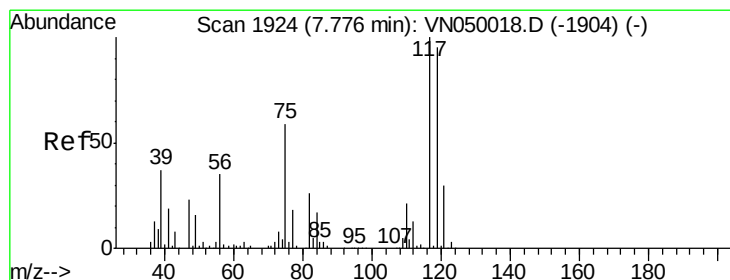
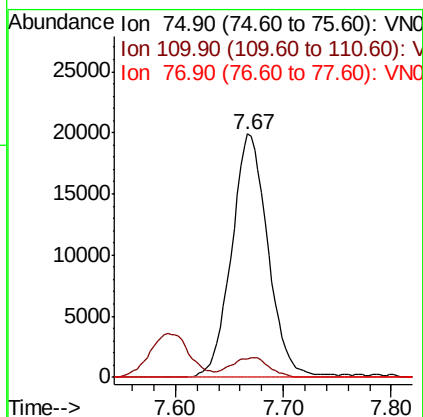
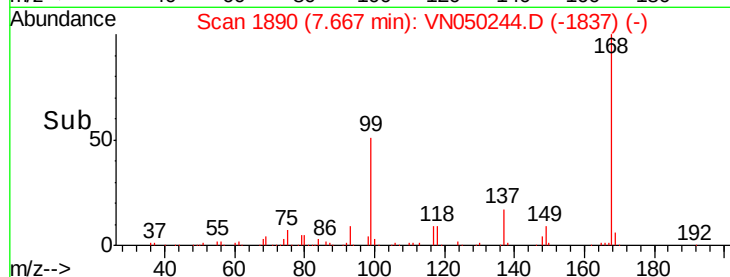
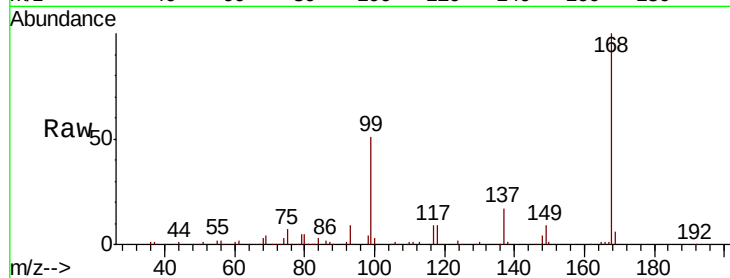




#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050244.D
 Acq: 1 Aug 2018 13:05

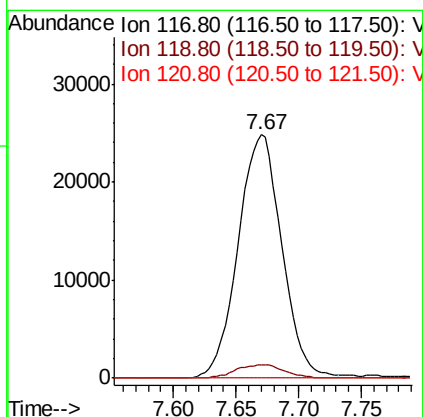
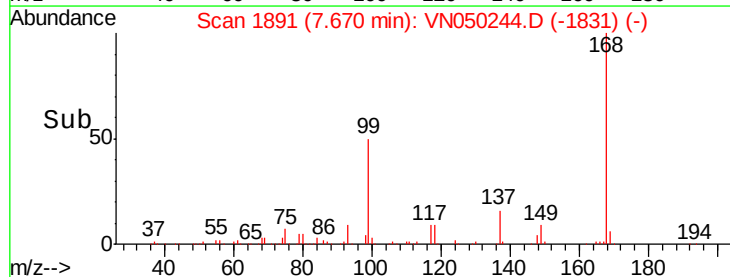
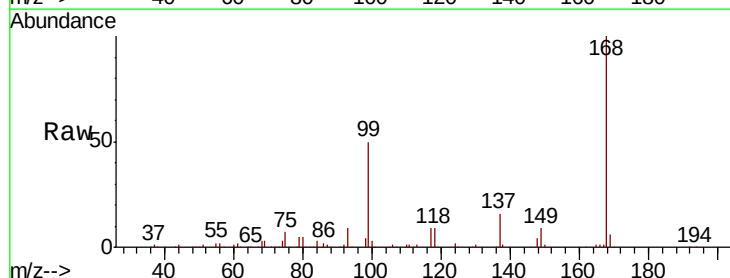
Instrument :
 MSVOA_N
 ClientSampled :
 MW-32

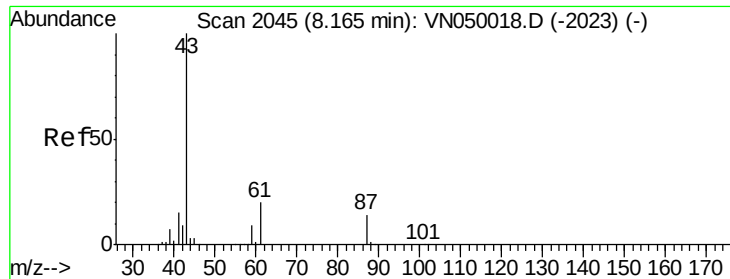
Tot Ion: 75 Resp: 46691
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.60 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050244.D
 Acq: 1 Aug 2018 13:05

Tgt Ion: 117 Resp: 60055
 Ion Ratio Lower Upper
 117 100
 119 5.6 77.4 116.0#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 23.10 ug/l

RT: 8.26 min Scan# 2073

Delta R.T. 0.09 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampleId :

MW-32

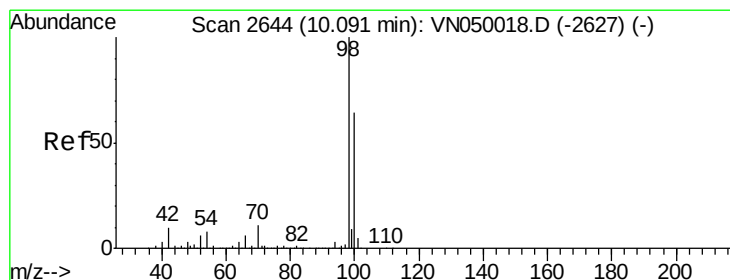
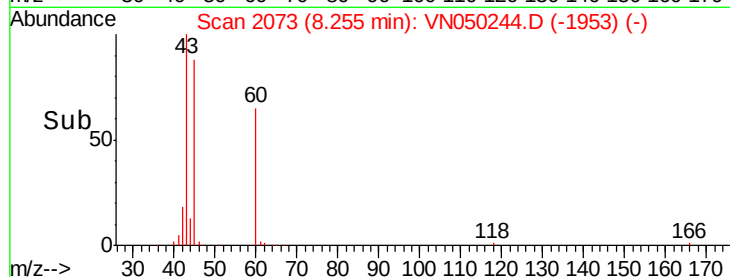
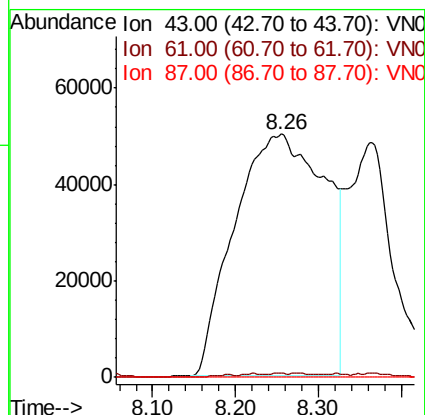
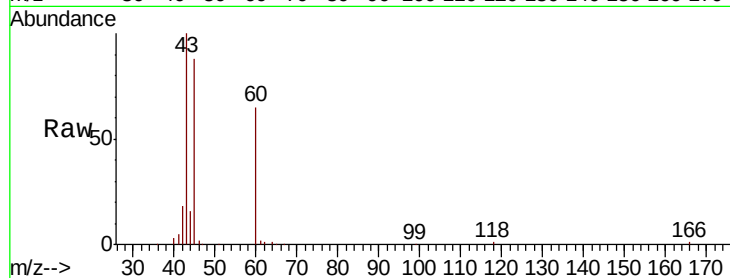
Tot Ion: 43 Resp: 383147

Ion Ratio Lower Upper

43 100

61 0.1 15.8 23.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 45.01 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050244.D

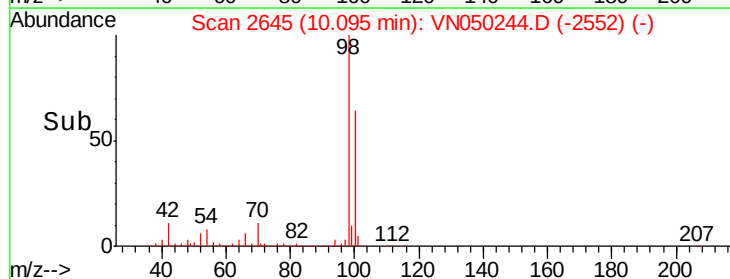
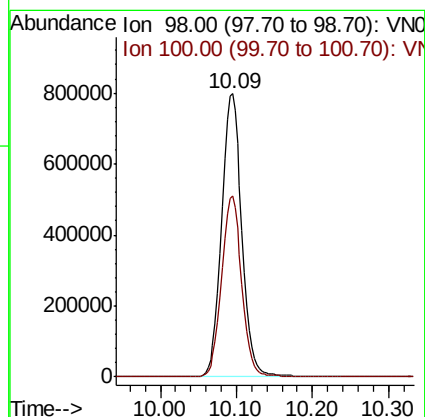
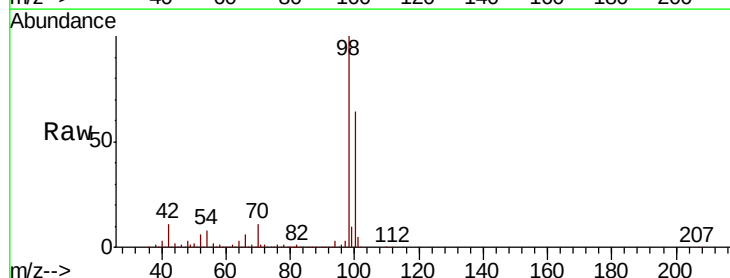
Acq: 1 Aug 2018 13:05

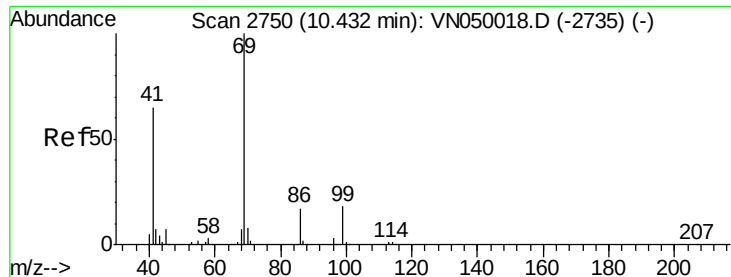
Tgt Ion: 98 Resp: 1475145

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1





#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.66 min Scan# 2821

Delta R.T. 0.23 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampleId :

MW-32

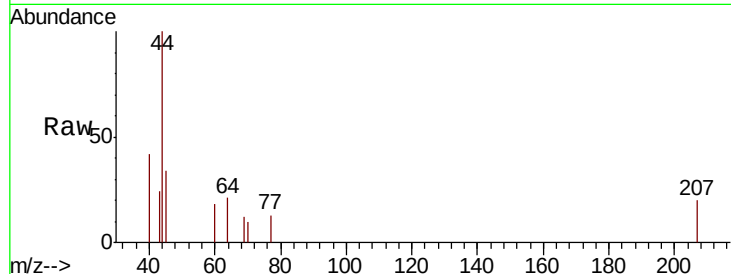
Tot Ion: 69 Resp: 63

Ion Ratio Lower Upper

69 100

41 157.1 51.0 76.4#

39 0.0 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

250

200

150

100

50

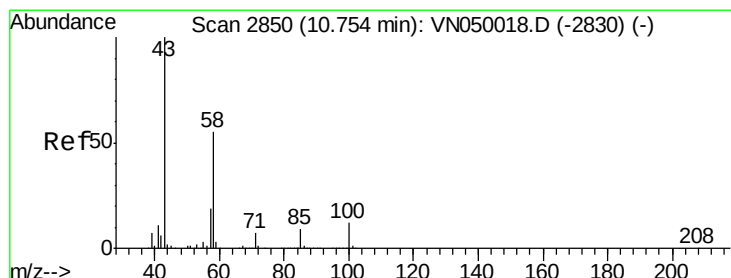
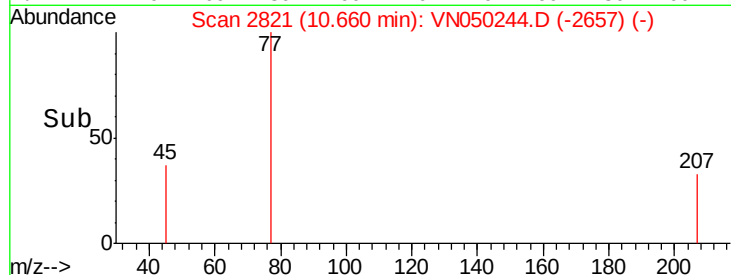
0

10.65

10.66

10.67

Time-->



#59

2-Hexanone

Concen: 5.20 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN050244.D

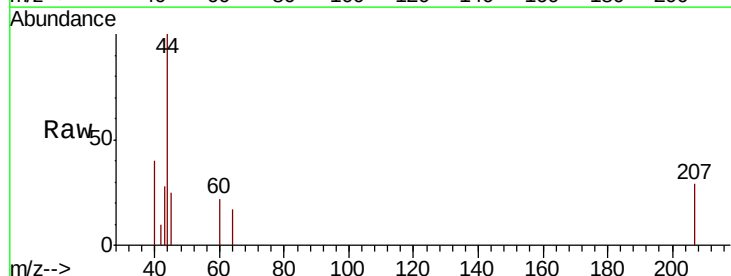
Acq: 1 Aug 2018 13:05

Tgt Ion: 43 Resp: 135

Ion Ratio Lower Upper

43 100

58 0.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

500

400

300

200

100

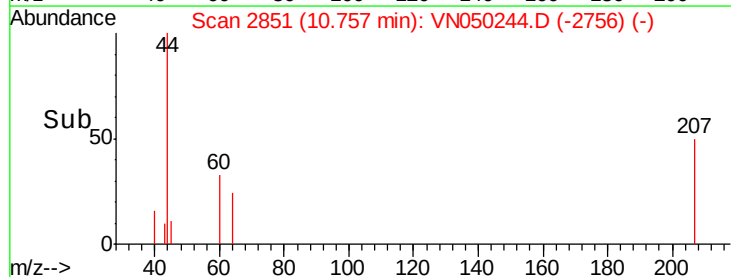
0

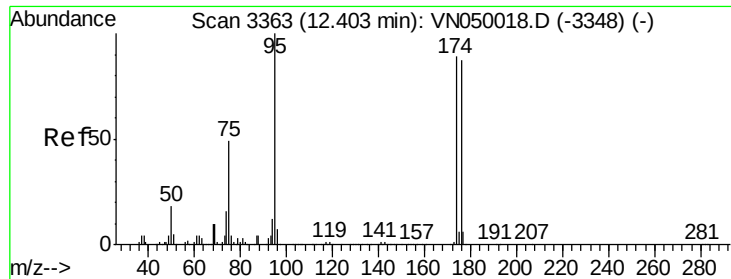
10.74

10.75

10.76

Time-->

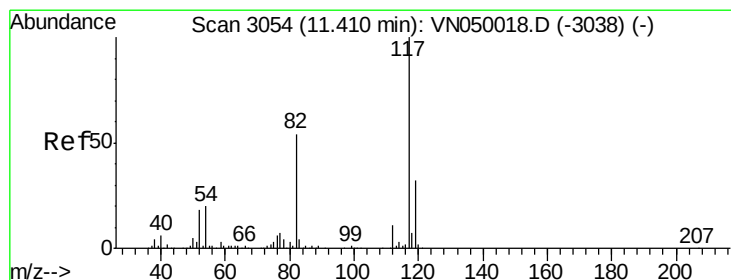
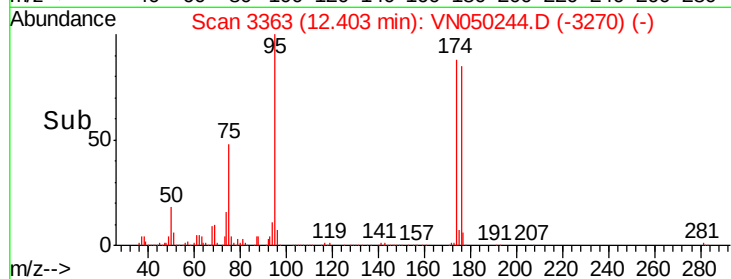
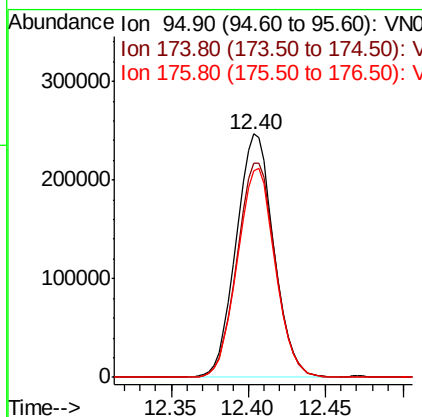
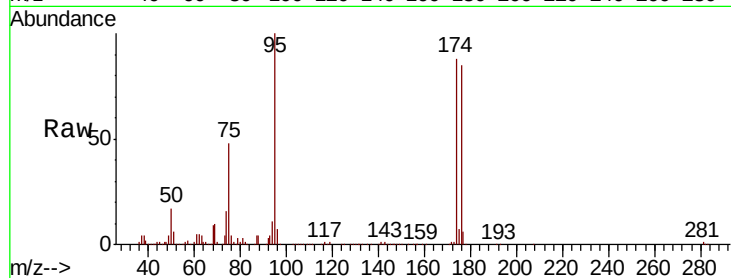




#62
4-Bromofluorobenzene
Concen: 38.49 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050244.D
Acq: 1 Aug 2018 13:05

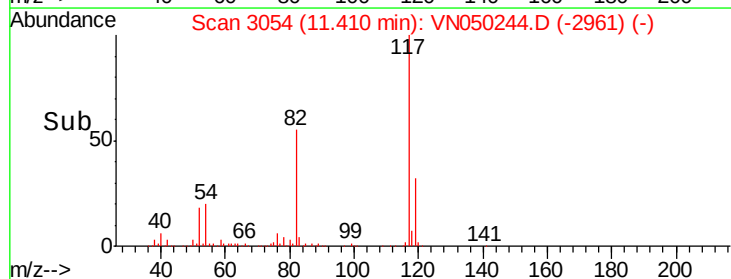
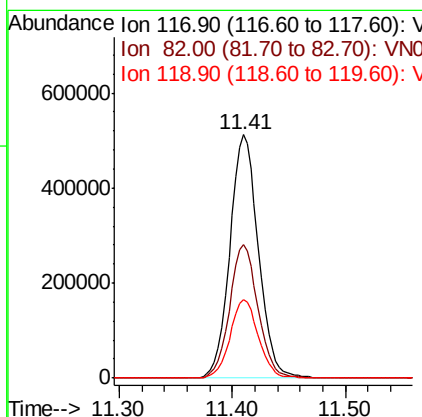
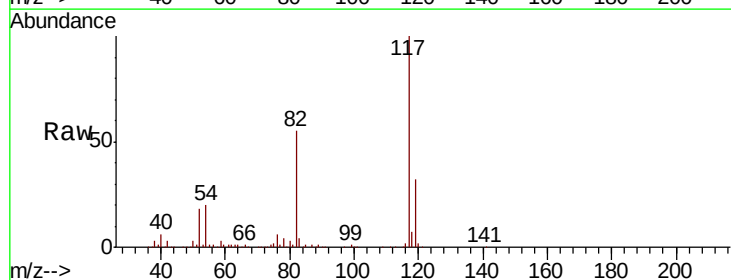
Instrument :
MSVOA_N
ClientSampleId :
MW-32

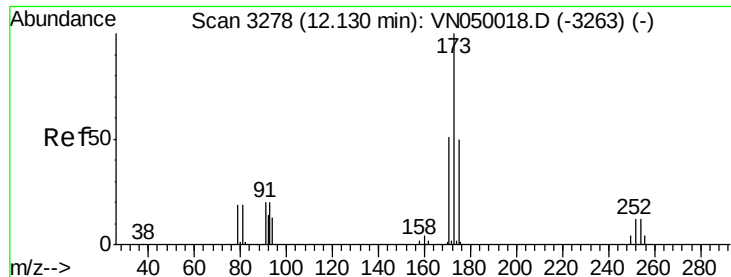
Tot Ion: 95 Resp: 415374
Ion Ratio Lower Upper
95 100
174 90.3 0.0 178.2
176 86.8 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050244.D
Acq: 1 Aug 2018 13:05

Tgt Ion: 117 Resp: 895752
Ion Ratio Lower Upper
117 100
82 54.7 43.7 65.5
119 32.0 26.1 39.1





#71

Bromoform

Concen: 0.52 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampled :

MW-32

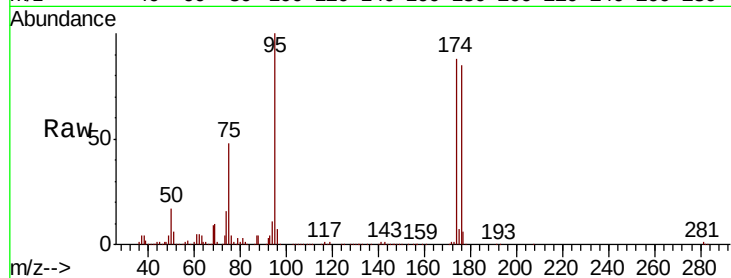
Tot Ion:173 Resp: 3289

Ion Ratio Lower Upper

173 100

175 734.8 24.1 72.2#

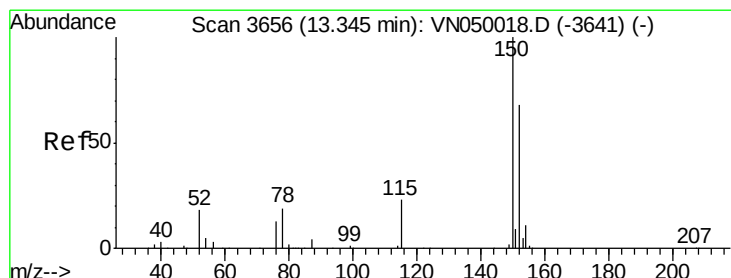
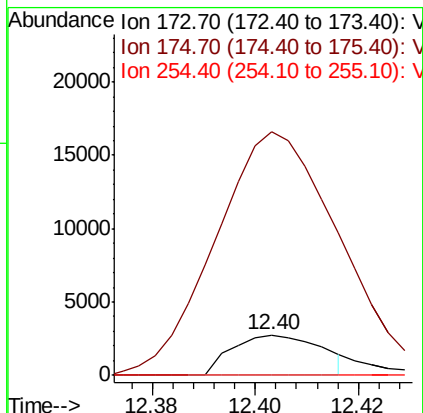
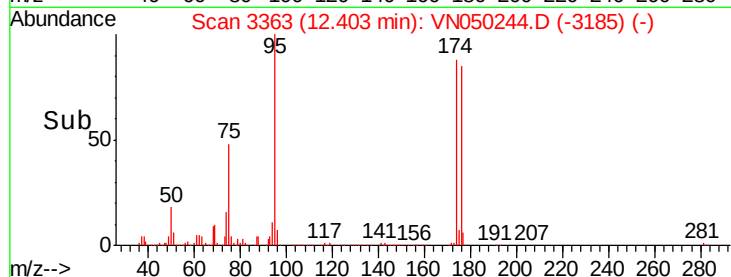
254 0.0 0.2 0.2#



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# 3656

Delta R.T. 0.00 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

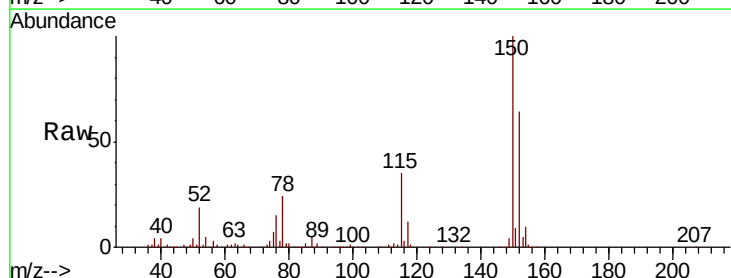
Tgt Ion:152 Resp: 348384

Ion Ratio Lower Upper

152 100

115 56.2 27.8 83.3

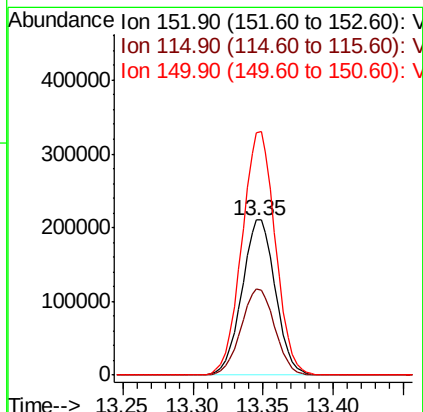
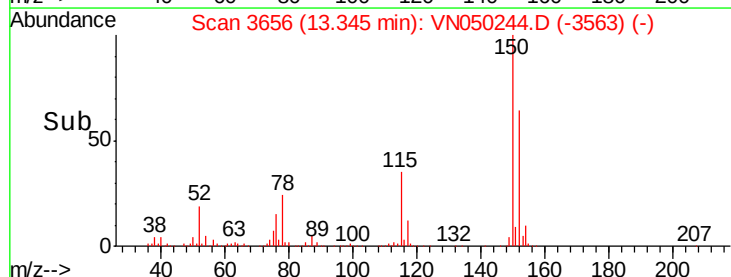
150 157.3 0.0 348.6

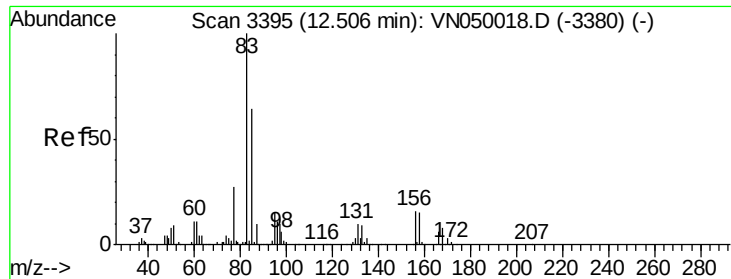


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampled :

MW-32

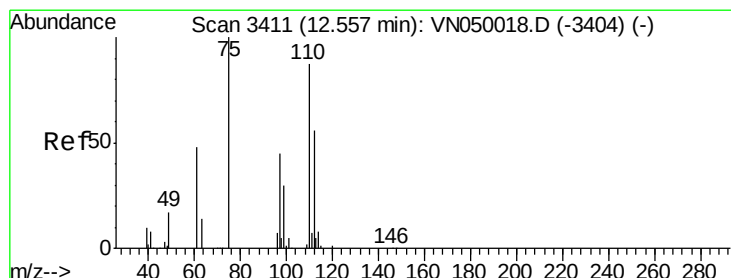
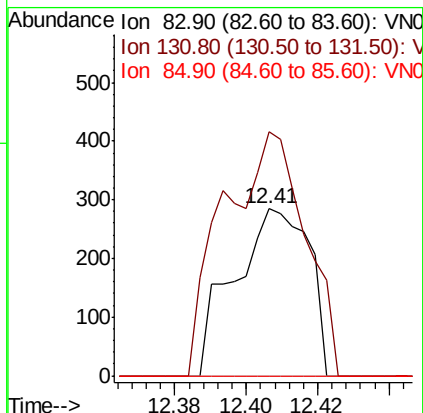
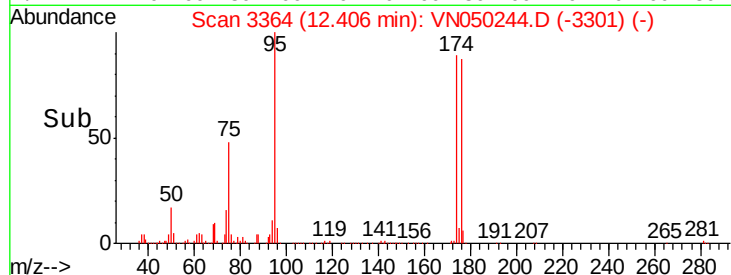
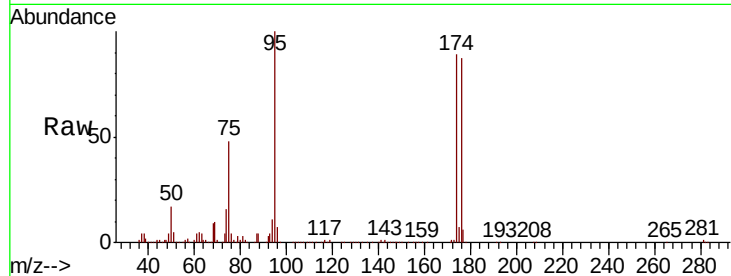
Tot Ion: 83 Resp: 414

Ion Ratio Lower Upper

83 100

131 158.7 5.1 15.3#

85 0.0 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 31.18 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050244.D

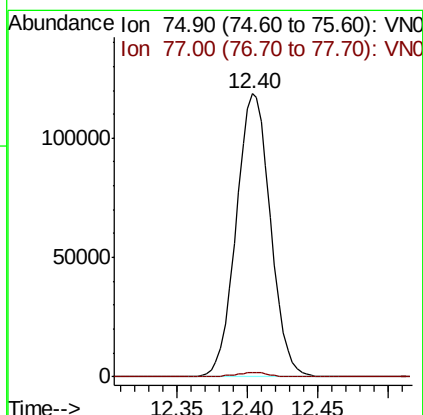
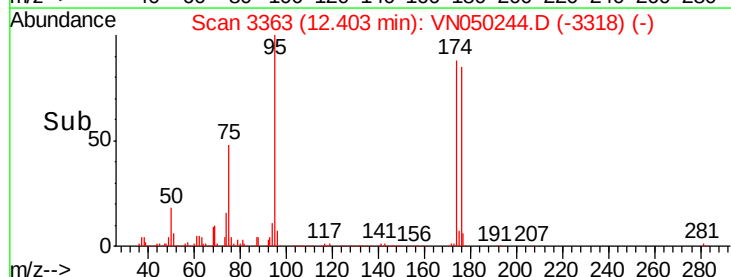
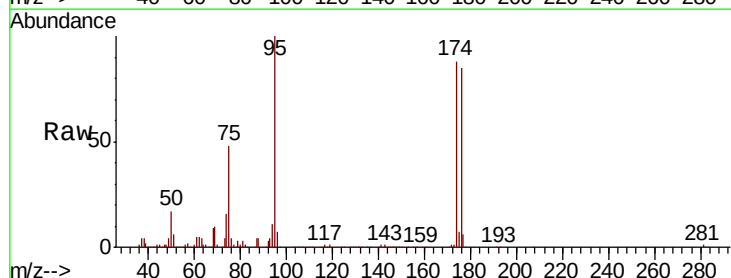
Acq: 1 Aug 2018 13:05

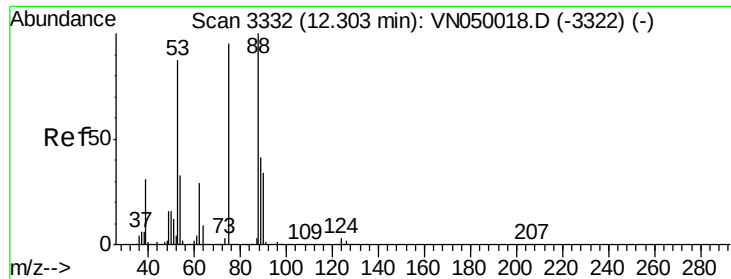
Tgt Ion: 75 Resp: 201862

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 98.89 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampleId :

MW-32

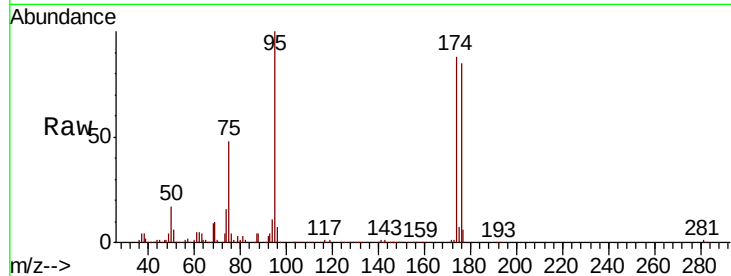
Tot Ion: 75 Resp: 201862

Ion Ratio Lower Upper

75 100

53 0.3 73.5 110.3#

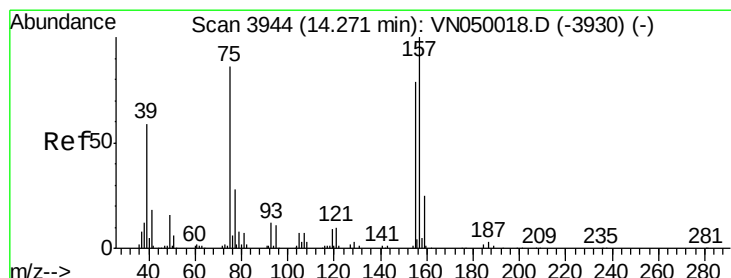
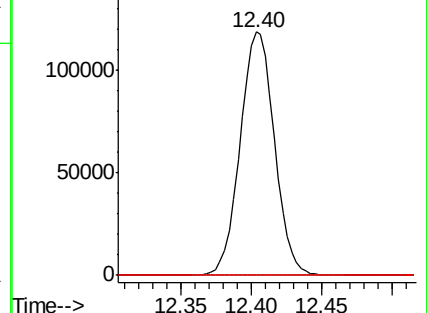
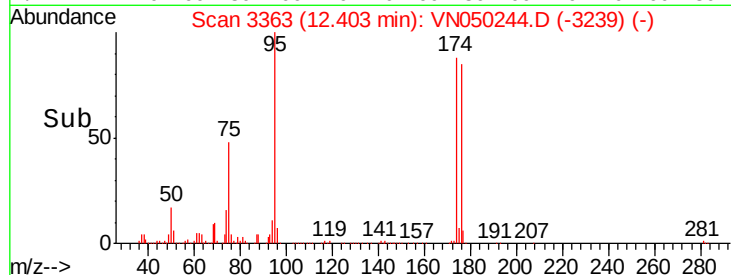
89 0.0 36.0 54.0#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.49 min Scan# 4013

Delta R.T. 0.22 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

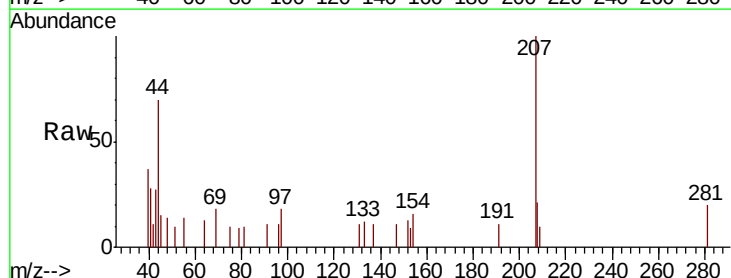
Tgt Ion: 75 Resp: 33

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

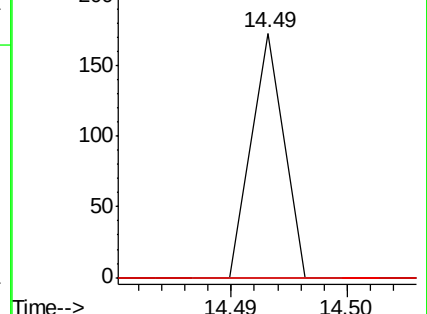
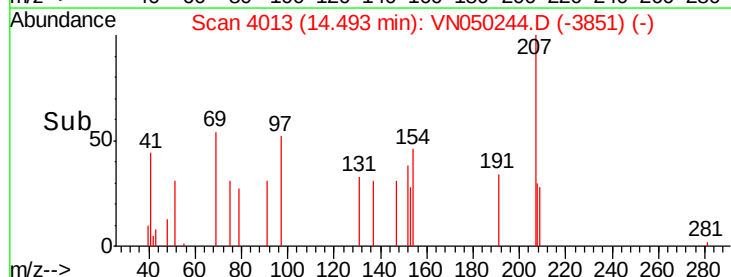
157 0.0 57.2 171.6#

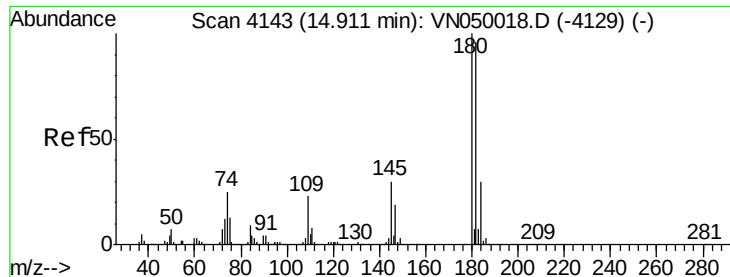


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 3.10 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

Instrument :

MSVOA_N

ClientSampled :

MW-32

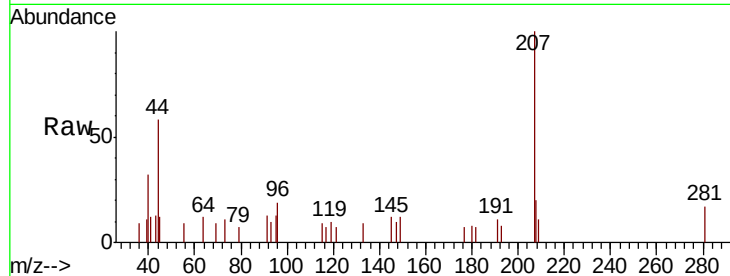
Tot Ion:180 Resp: 99

Ion Ratio Lower Upper

180 100

182 145.5 46.7 140.1#

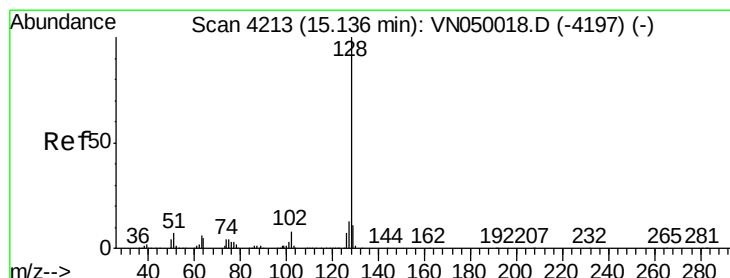
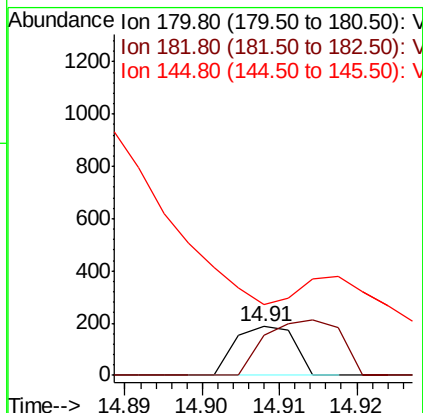
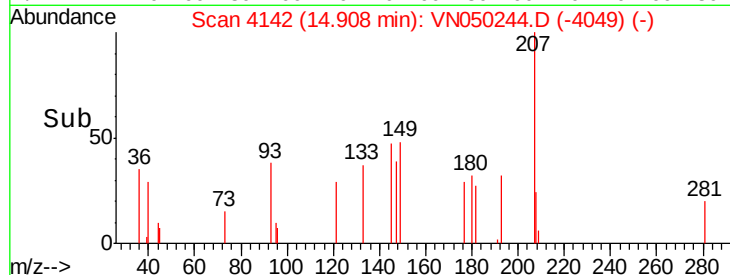
145 300.0 13.8 41.4#



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



#95

Naphthalene

Concen: 4.47 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN050244.D

Acq: 1 Aug 2018 13:05

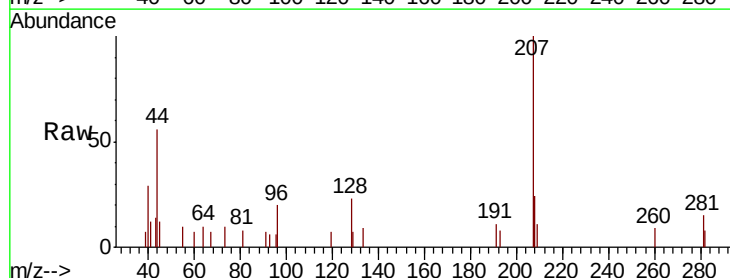
Tgt Ion:128 Resp: 1035

Ion Ratio Lower Upper

128 100

127 6.5 10.4 15.6#

129 12.6 8.8 13.2



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

