

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049914.D
 Acq On : 19 Jul 2018 14:15
 Operator : MD\SY
 Sample : PB111251ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#01

Quant Time: Jul 20 01:28:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	570679	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	941487	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	794147	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	291967	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	399800	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
35) Dibromofluoromethane	7.59	113	350210	44.31	ug/l	0.00
Spiked Amount			Recovery	=	88.62%	
50) Toluene-d8	10.09	98	1265119	43.93	ug/l	0.00
Spiked Amount			Recovery	=	87.86%	
62) 4-Bromofluorobenzene	12.40	95	358980	36.20	ug/l	0.00
Spiked Amount			Recovery	=	72.40%	

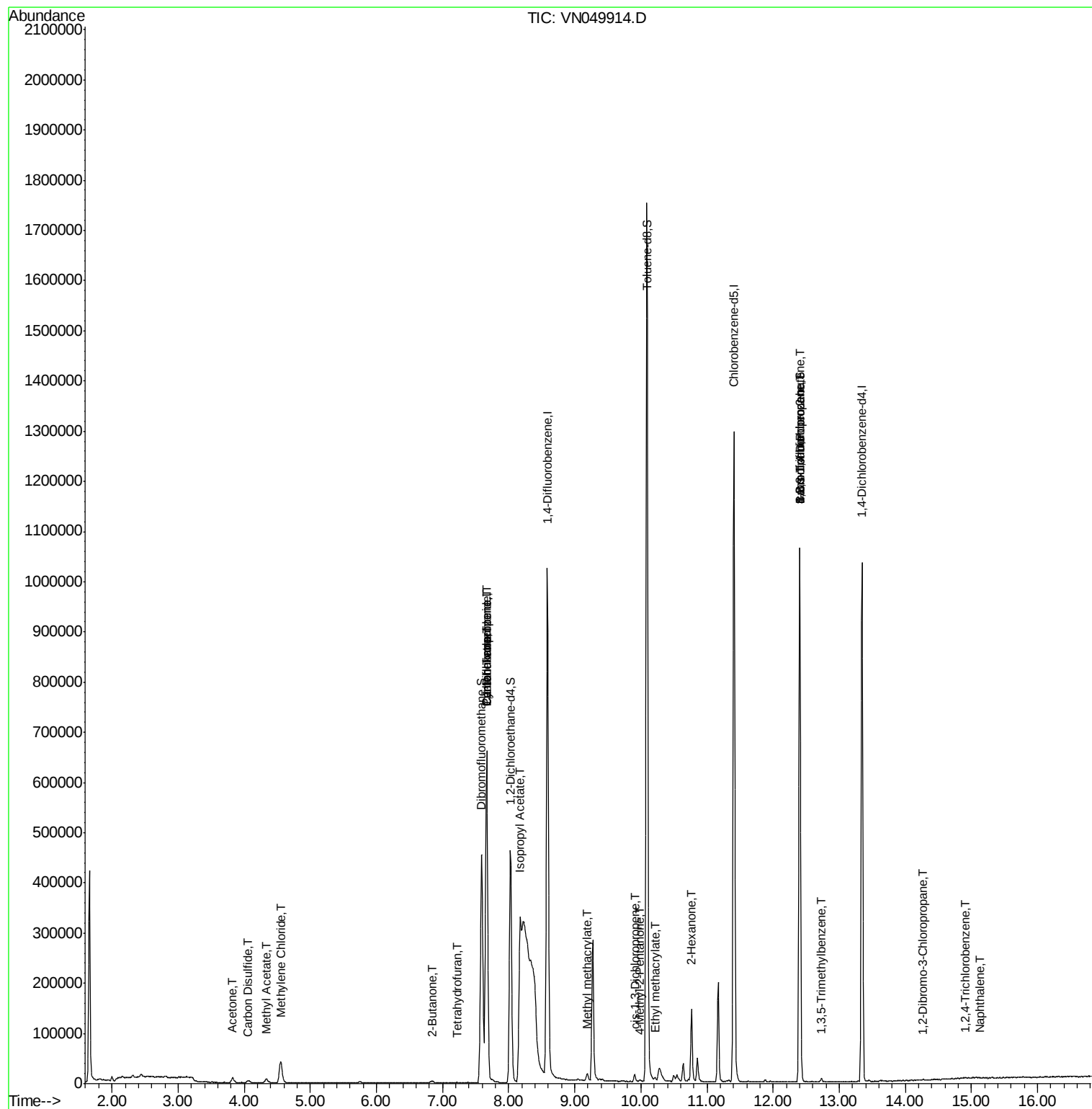
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	352	Below Cal	#	11
16) Acetone	3.82	43	17298	8.52	ug/l	98
17) Carbon Disulfide	4.05	76	4257	0.23	ug/l	# 87
18) Methyl Acetate	4.33	43	15412	1.62	ug/l	93
20) Methylene Chloride	4.55	84	32941	4.27	ug/l	97
25) 2-Butanone	6.84	43	1049	0.36	ug/l	96
29) Tetrahydrofuran	7.21	42	1011	0.55	ug/l	# 64
31) Cyclohexane	7.66	56	11327	1.08	ug/l	# 1
36) 1,1-Dichloropropene	7.66	75	39970	3.82	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	51253	4.57	ug/l	# 16
43) Isopropyl Acetate	8.17	43	413480	32.92	ug/l	# 86
48) Methyl methacrylate	9.18	41	9005	1.43	ug/l	# 22
51) 4-Methyl-2-Pentanone	9.98	43	3043	0.43	ug/l	# 82
54) cis-1,3-Dichloropropene	9.90	75	2760	0.23	ug/l	# 71
56) Ethyl methacrylate	10.22	69	2807	2.41	ug/l	# 72
59) 2-Hexanone	10.77	43	20355	4.32	ug/l	# 58
71) Bromoform	12.40	173	3011	0.54	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	175561	32.05	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	3712	0.21	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	175561	100.23	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	296	0.29	ug/l	# 1
93) 1,2,4-Trichlorobenzene	14.90	180	207	3.51	ug/l	# 1
95) Naphthalene	15.14	128	1337	4.58	ug/l	# 69

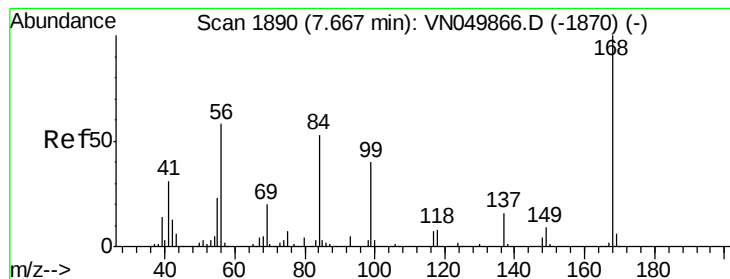
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 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: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

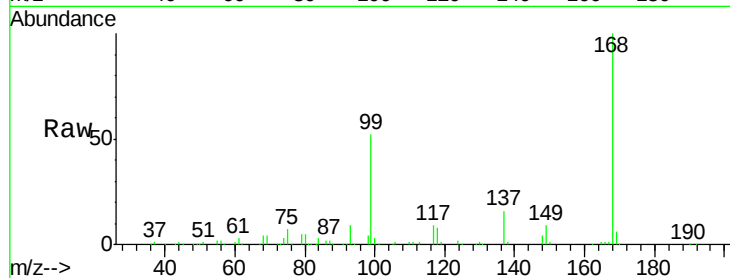
PB111251ZHE#01

Tot Ion:168 Resp: 570679

Ion Ratio Lower Upper

168 100

99 51.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

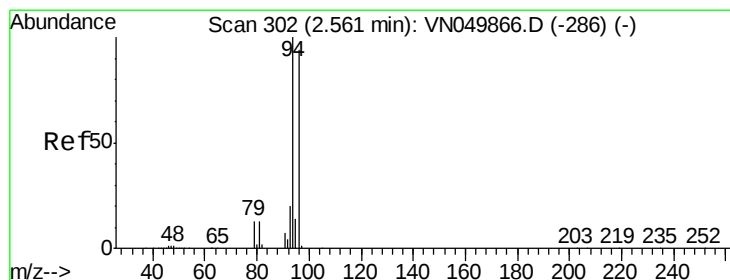
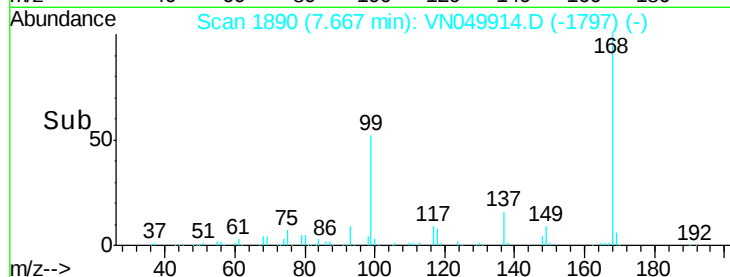
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 301

Delta R.T. -0.00 min

Lab File: VN049914.D

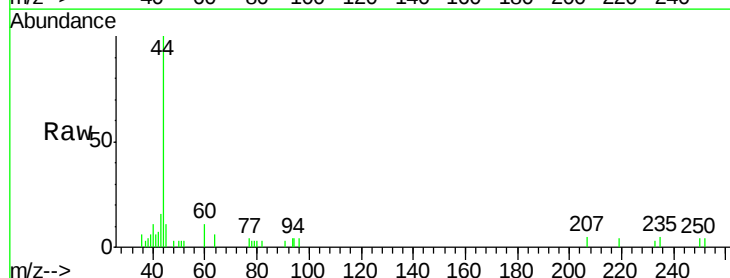
Acq: 19 Jul 2018 14:15

Tgt Ion: 94 Resp: 352

Ion Ratio Lower Upper

94 100

96 8.6 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

500

400

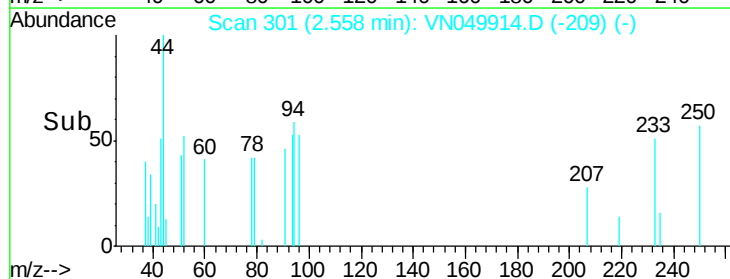
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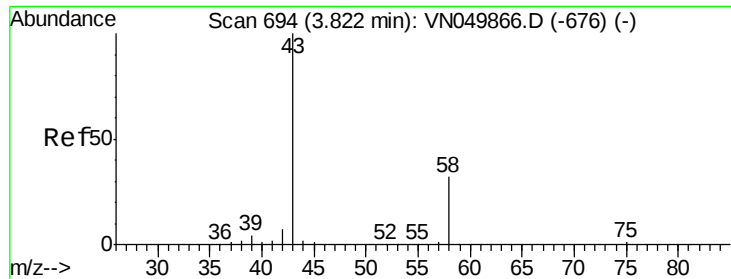
200

100

0

Time-->





#16

Acetone

Concen: 8.52 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

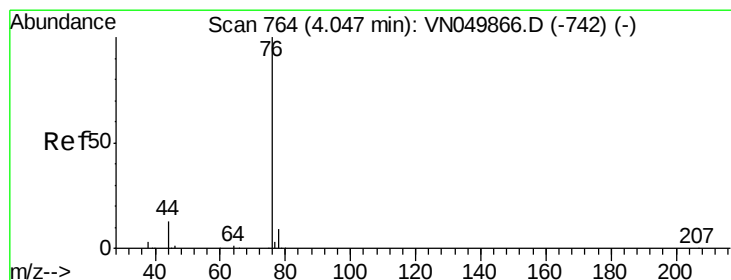
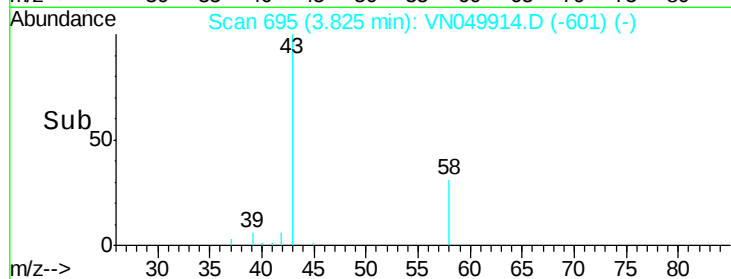
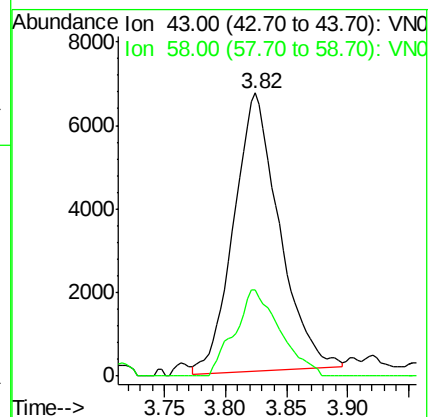
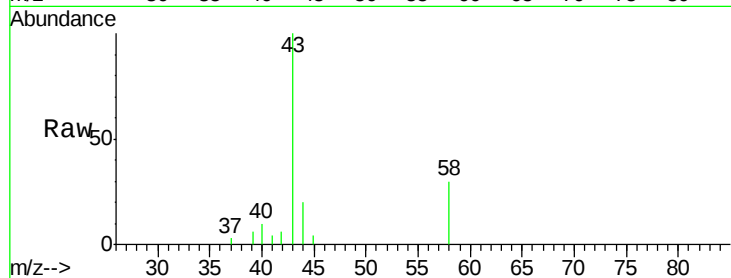
PB111251ZHE#01

Tot Ion: 43 Resp: 17298

Ion Ratio Lower Upper

43 100

58 31.3 25.9 38.9



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN049914.D

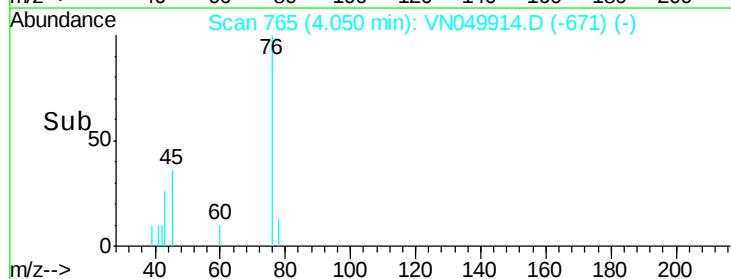
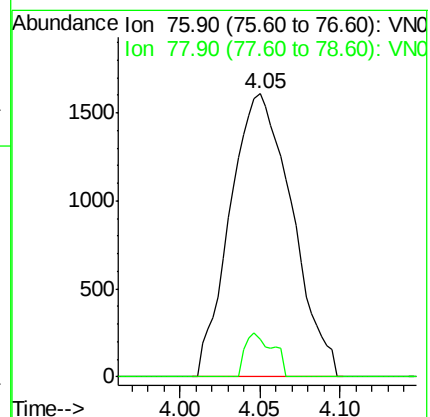
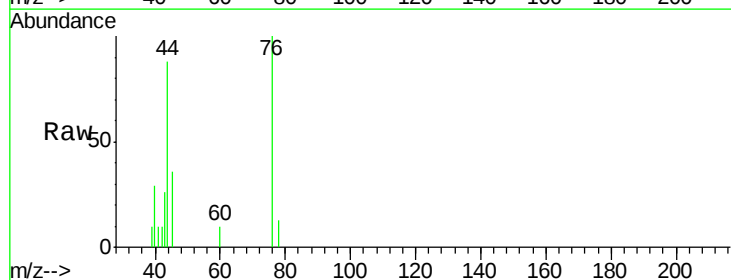
Acq: 19 Jul 2018 14:15

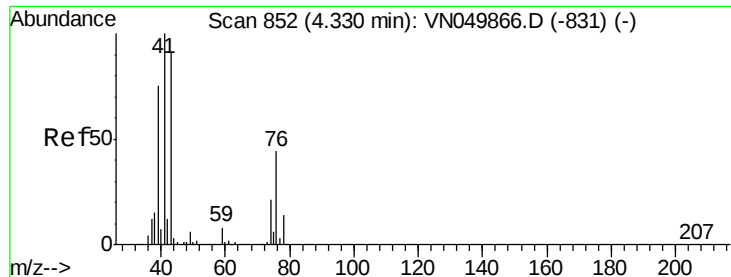
Tgt Ion: 76 Resp: 4257

Ion Ratio Lower Upper

76 100

78 13.5 7.1 10.7#





#18

Methyl Acetate

Concen: 1.62 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

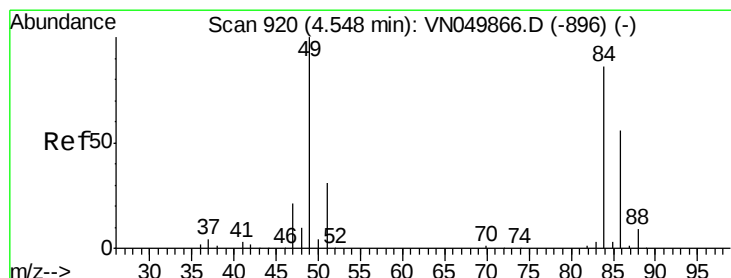
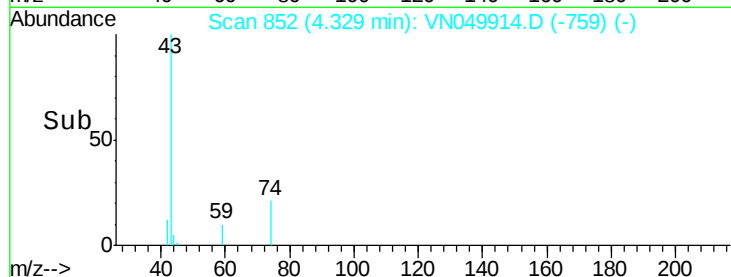
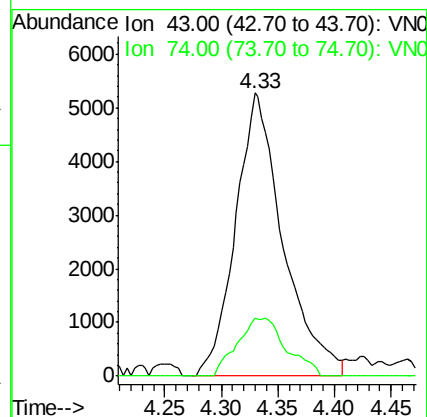
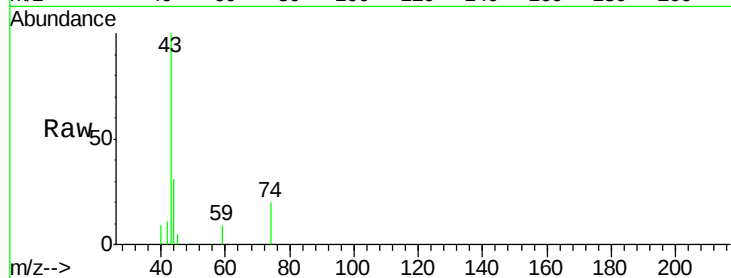
PB111251ZHE#01

Tot Ion: 43 Resp: 15412

Ion Ratio Lower Upper

43 100

74 21.1 19.8 29.8



#20

Methylene Chloride

Concen: 4.27 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Tgt Ion: 84 Resp: 32941

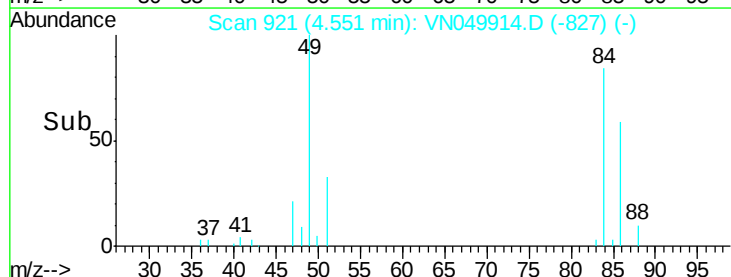
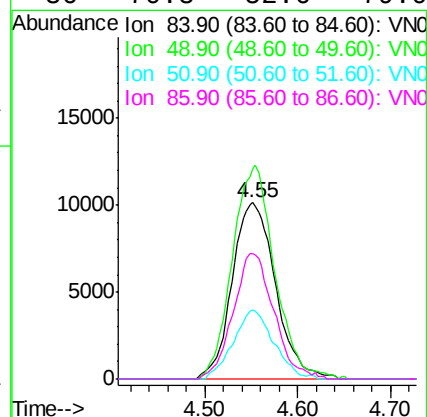
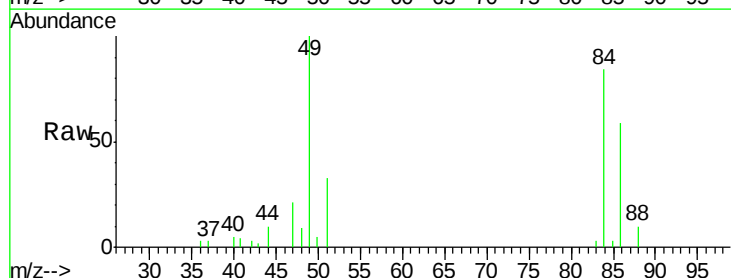
Ion Ratio Lower Upper

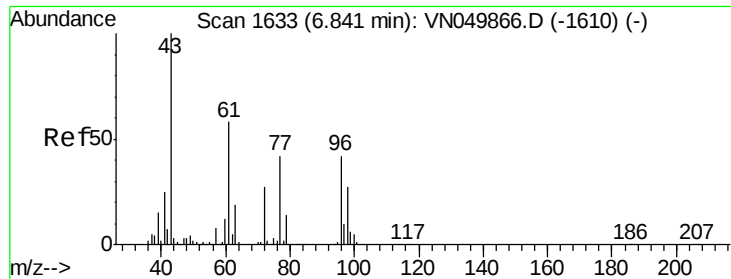
84 100

49 119.2 95.4 143.2

51 39.3 28.4 42.6

86 70.8 52.6 79.0





#25

2-Butanone

Concen: 0.36 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

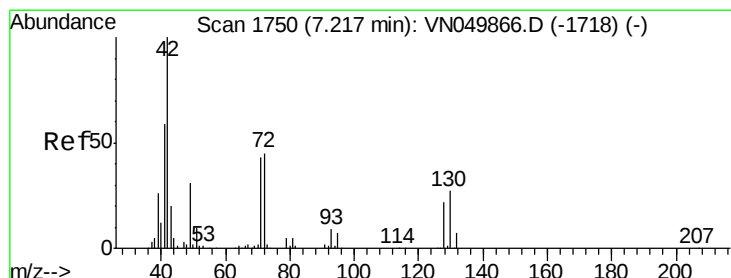
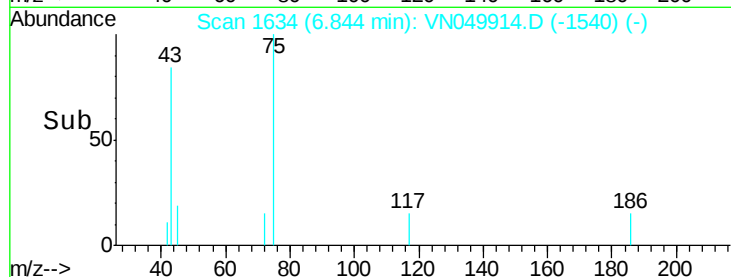
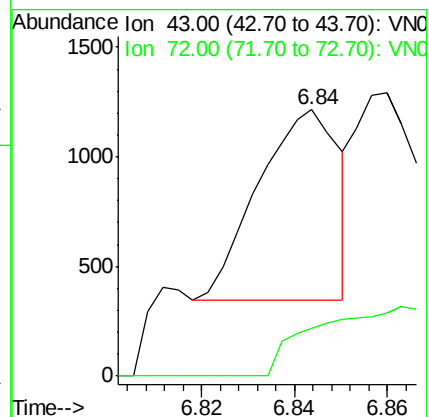
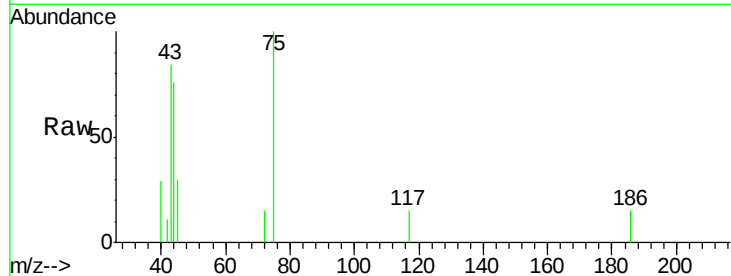
PB111251ZHE#01

Tot Ion: 43 Resp: 1049

Ion Ratio Lower Upper

43 100

72 25.3 22.1 33.1



#29

Tetrahydrofuran

Concen: 0.55 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

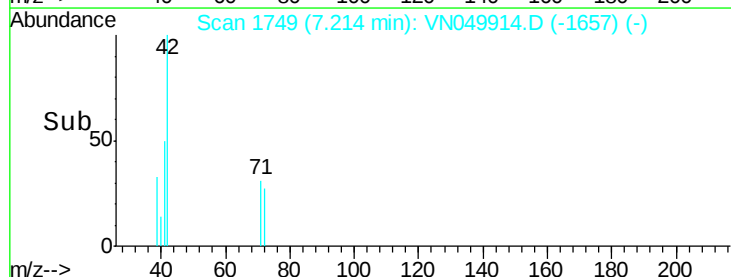
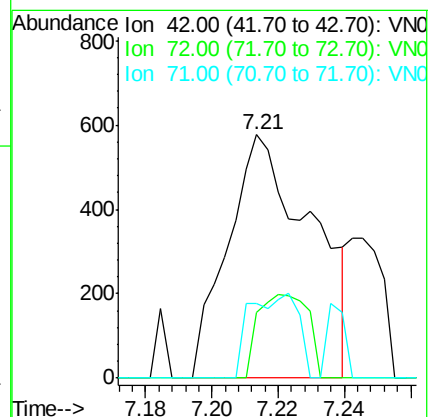
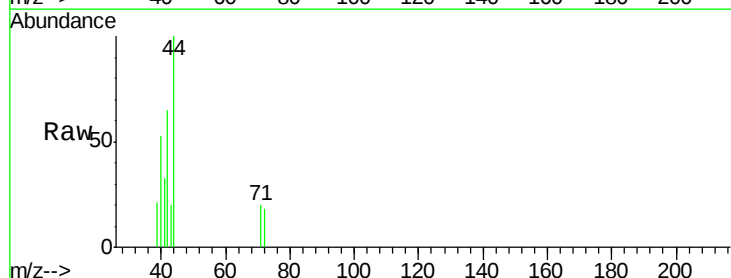
Tgt Ion: 42 Resp: 1011

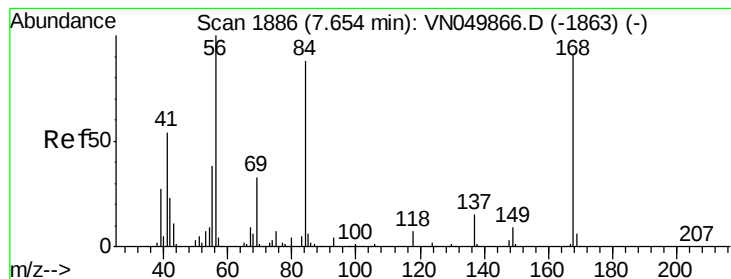
Ion Ratio Lower Upper

42 100

72 20.4 35.6 53.4#

71 20.2 34.0 51.0#





#31

Cyclohexane

Concen: 1.08 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#01

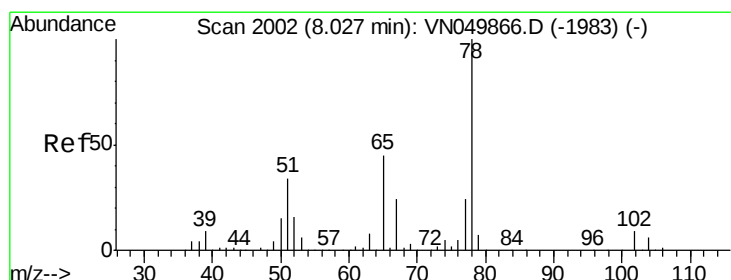
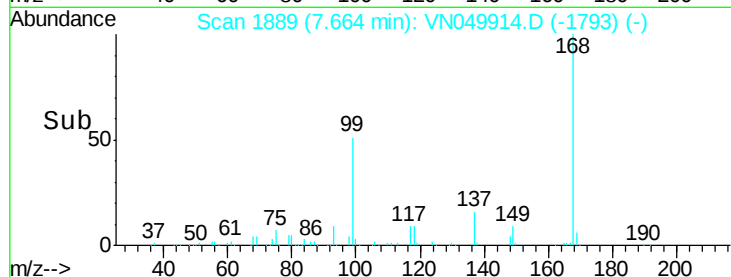
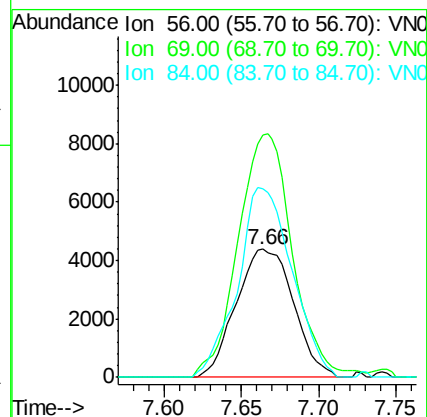
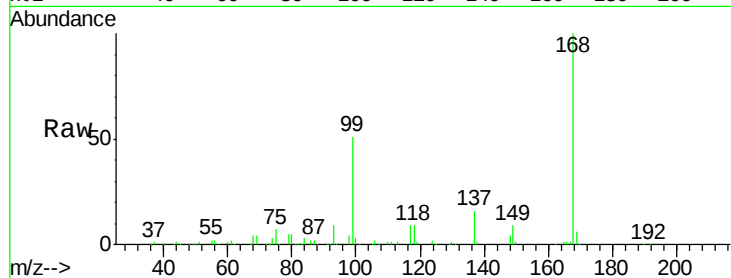
Tot Ion: 56 Resp: 11327

Ion Ratio Lower Upper

56 100

69 189.6 26.6 40.0#

84 146.8 69.0 103.6#



#33

1,2-Dichloroethane-d4

Concen: 50.97 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN049914.D

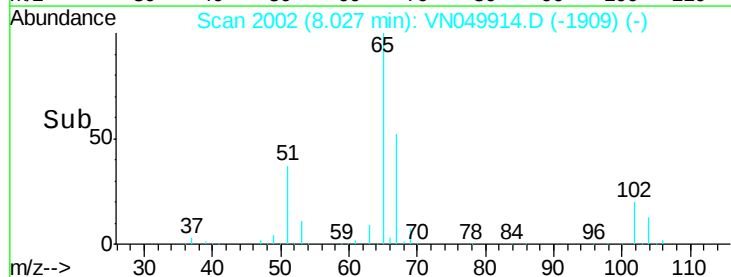
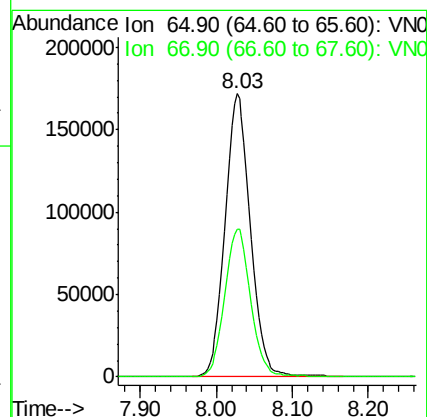
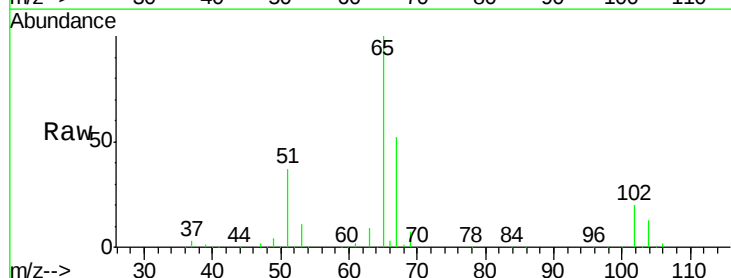
Acq: 19 Jul 2018 14:15

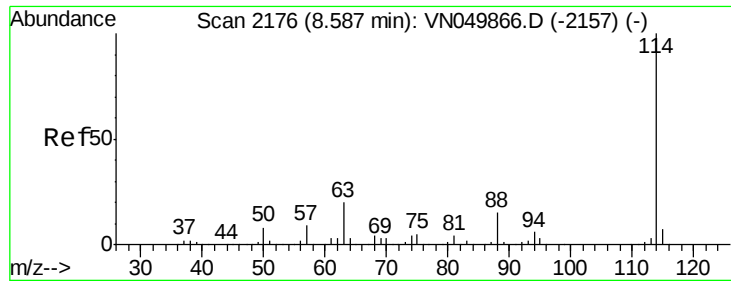
Tgt Ion: 65 Resp: 399800

Ion Ratio Lower Upper

65 100

67 53.2 0.0 107.2

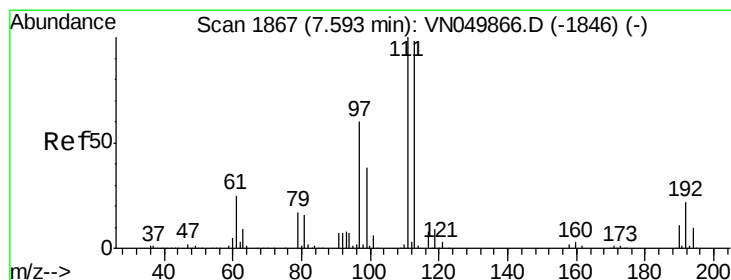
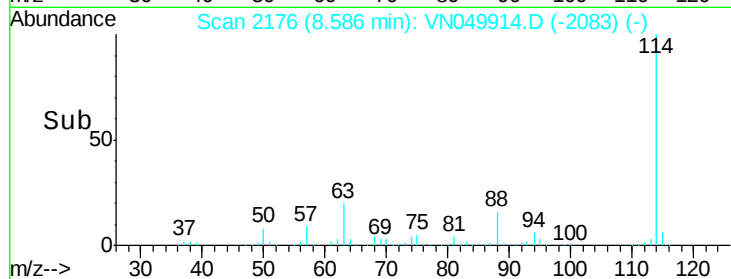
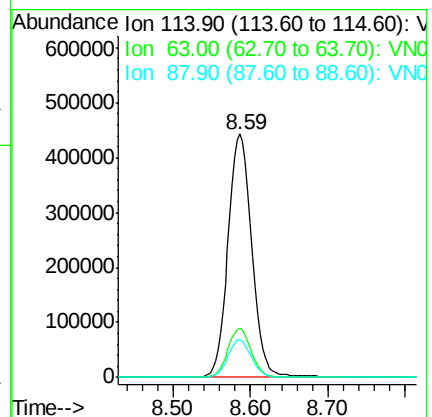
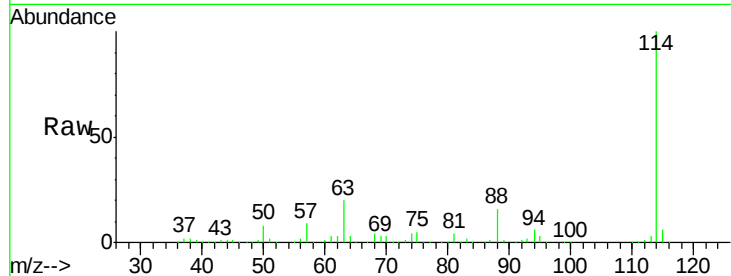




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049914.D
 Acq: 19 Jul 2018 14:15

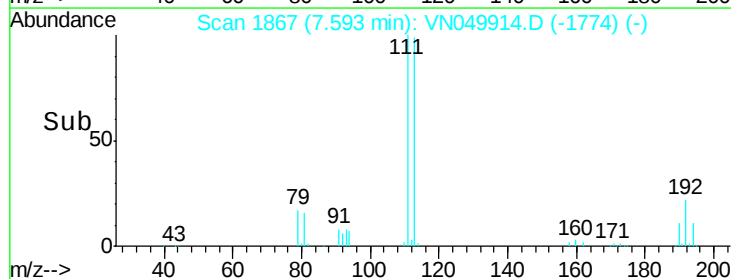
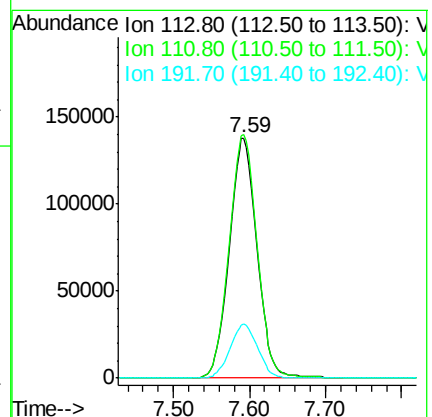
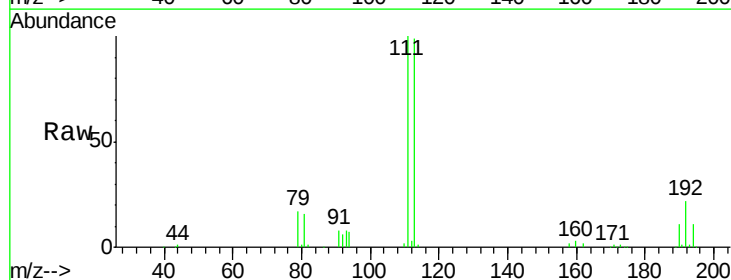
Instrument :
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 PB111251ZHE#01

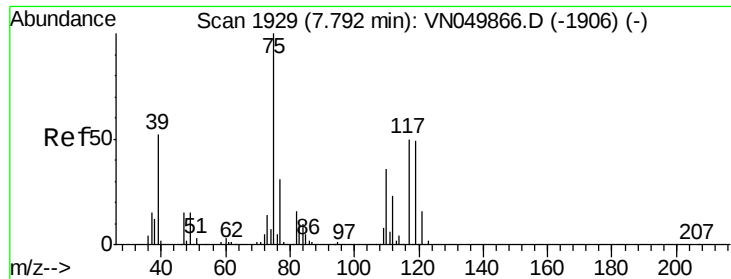
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	39.8
88	15.5	0.0	30.6



#35
 Dibromofluoromethane
 Concen: 44.31 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049914.D
 Acq: 19 Jul 2018 14:15

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.8
192	22.4	17.8	26.6

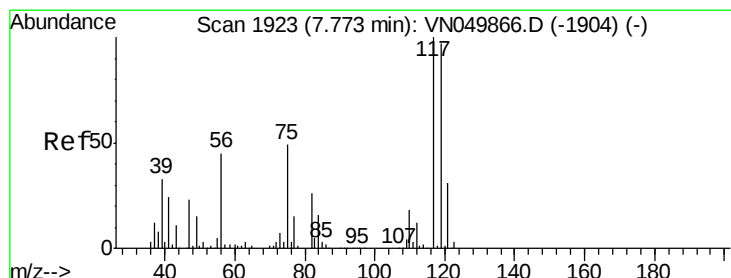
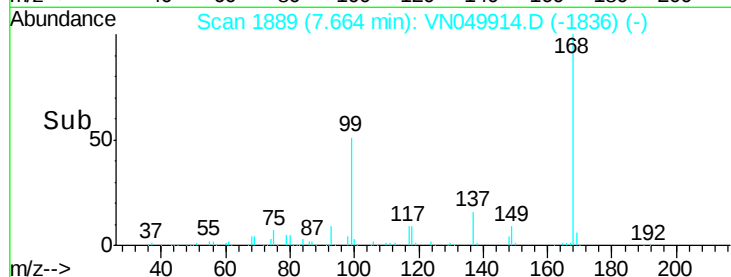
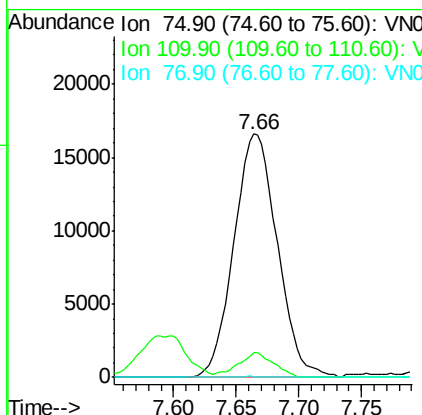
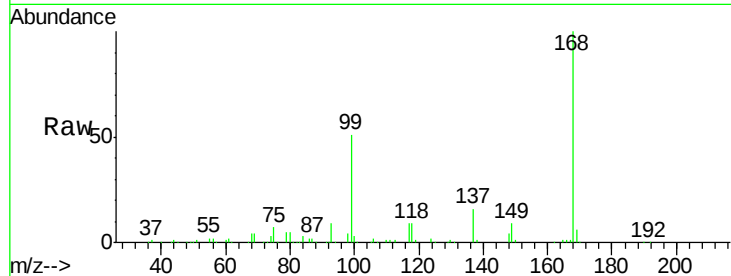




#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN049914.D
 Acq: 19 Jul 2018 14:15

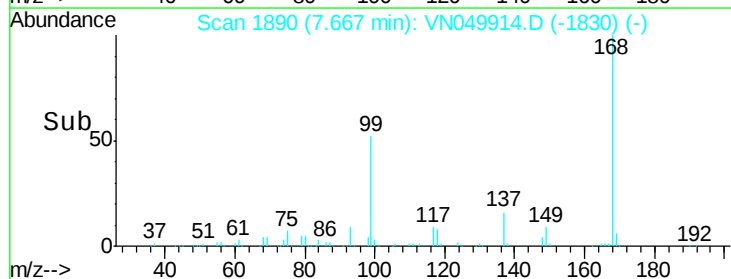
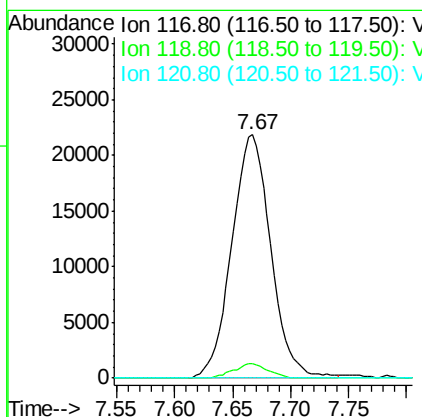
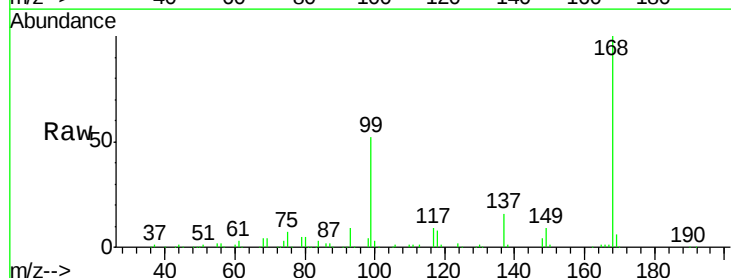
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#01

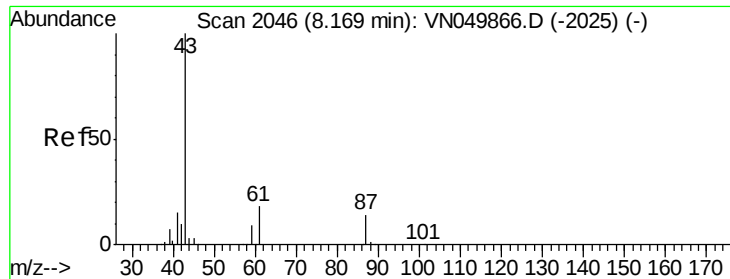
Tot Ion	75	Resp	39970
Ion Ratio	Lower	Upper	
75	100		
110	8.4	18.1	54.4#
77	0.1	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.57 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049914.D
 Acq: 19 Jul 2018 14:15

Tgt Ion	117	Resp	51253
Ion Ratio	Lower	Upper	
117	100		
119	5.9	77.2	115.8#
121	0.0	25.0	37.6#



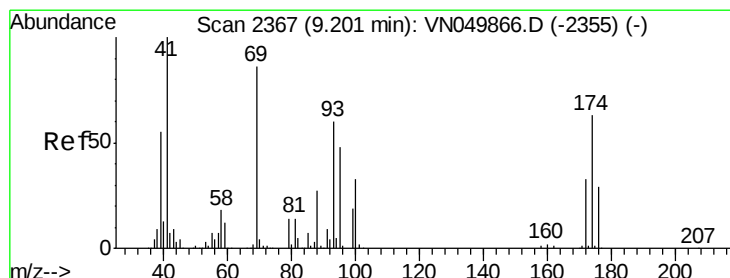
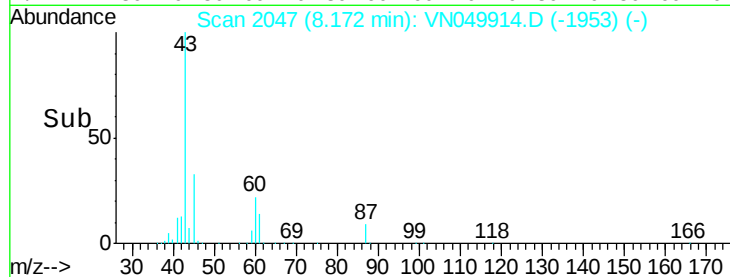
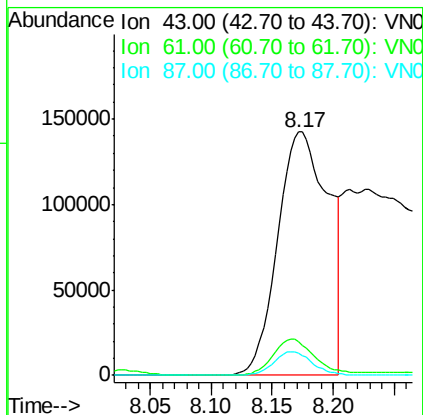
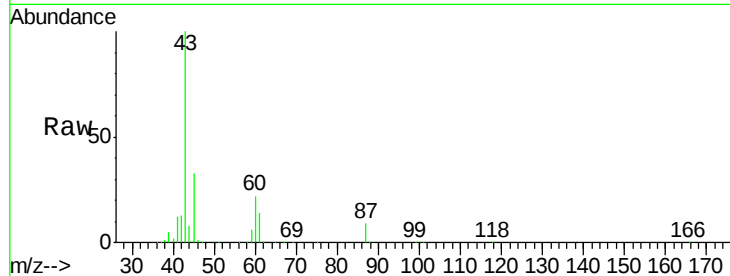


#43

Isopropyl Acetate
 Concen: 32.92 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: VN049914.D
 Acq: 19 Jul 2018 14:15

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#01

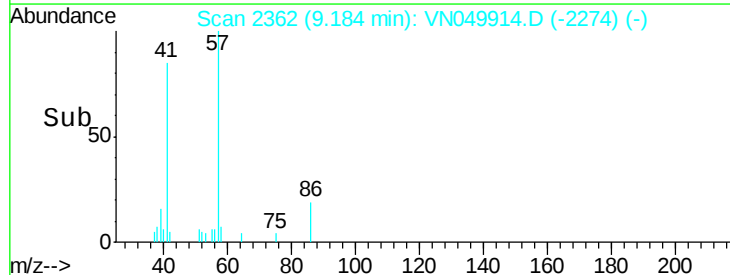
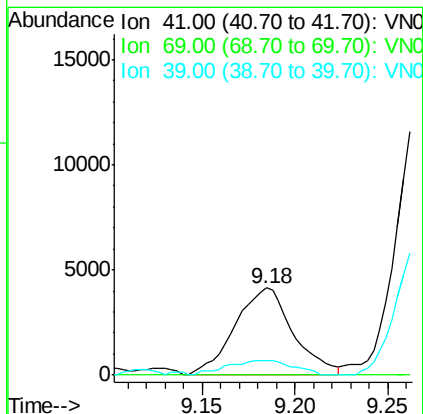
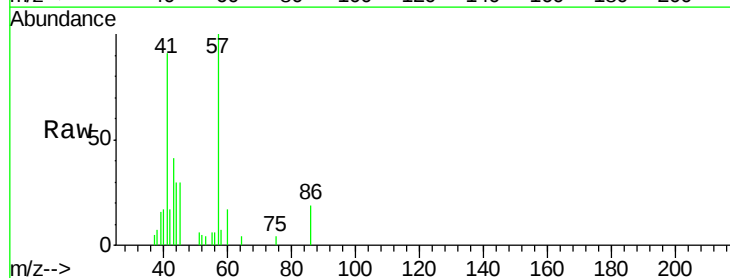
Tot Ion: 43 Resp: 413480
 Ion Ratio Lower Upper
 43 100
 61 12.3 14.9 22.3#
 87 7.5 10.0 15.0#

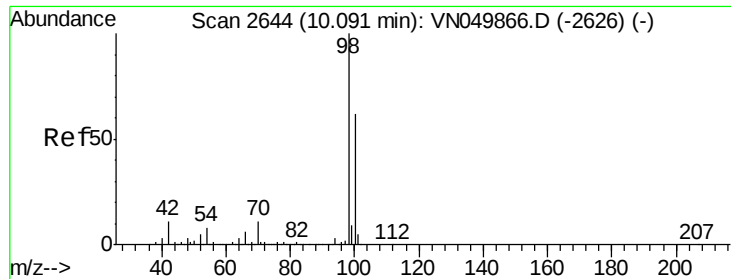


#48

Methyl methacrylate
 Concen: 1.43 ug/l
 RT: 9.18 min Scan# 2362
 Delta R.T. -0.02 min
 Lab File: VN049914.D
 Acq: 19 Jul 2018 14:15

Tgt Ion: 41 Resp: 9005
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.5 107.3#
 39 19.4 44.7 67.1#





#50

Toluene-d8

Concen: 43.93 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

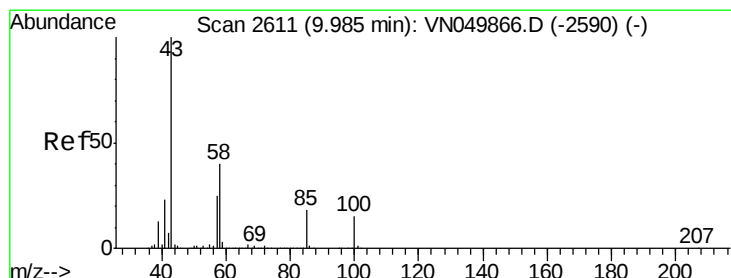
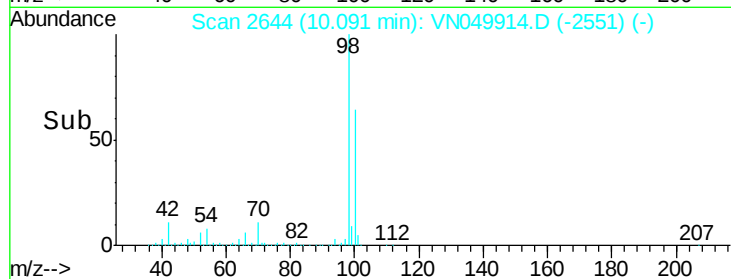
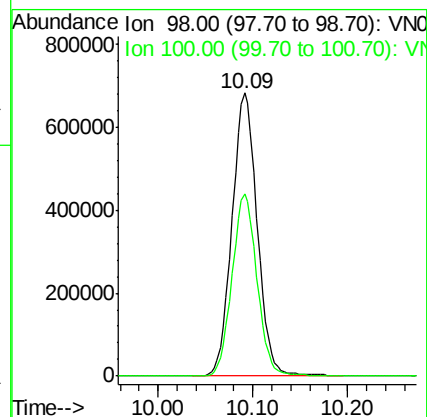
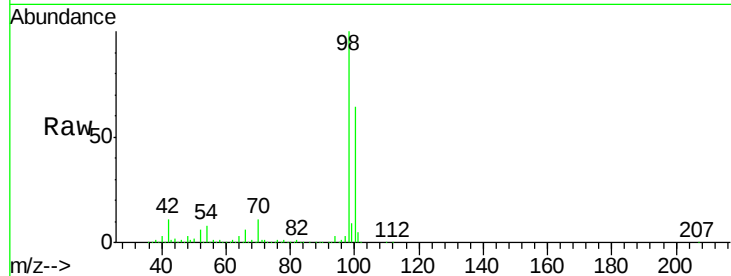
PB111251ZHE#01

Tot Ion: 98 Resp: 1265119

Ion Ratio Lower Upper

98 100

100 63.8 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 0.43 ug/l

RT: 9.98 min Scan# 2610

Delta R.T. -0.00 min

Lab File: VN049914.D

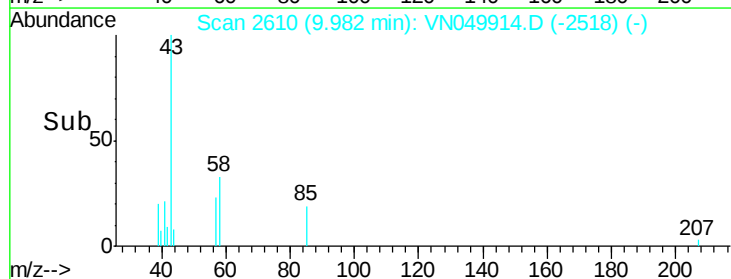
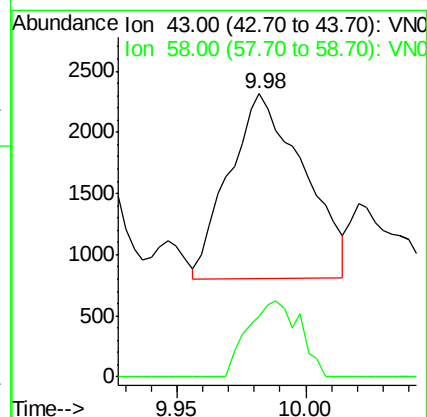
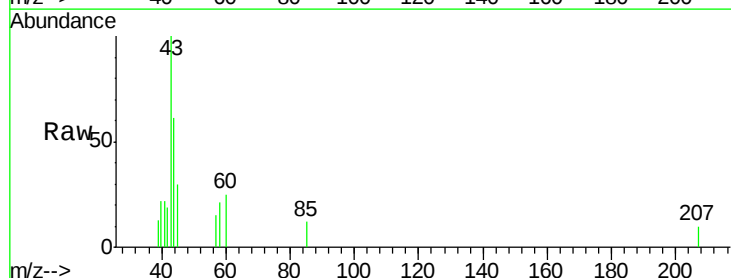
Acq: 19 Jul 2018 14:15

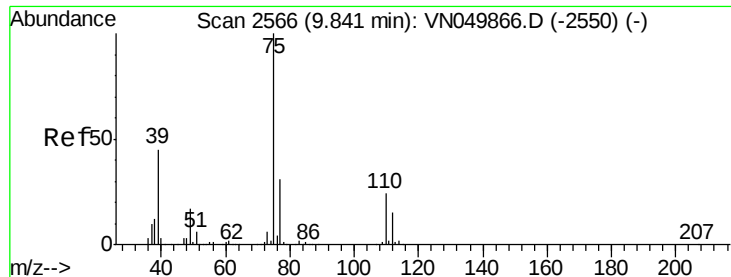
Tgt Ion: 43 Resp: 3043

Ion Ratio Lower Upper

43 100

58 28.8 31.8 47.8#





#54

cis-1,3-Dichloropropene

Concen: 0.23 ug/l

RT: 9.90 min Scan# 2585

Delta R.T. 0.06 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#01

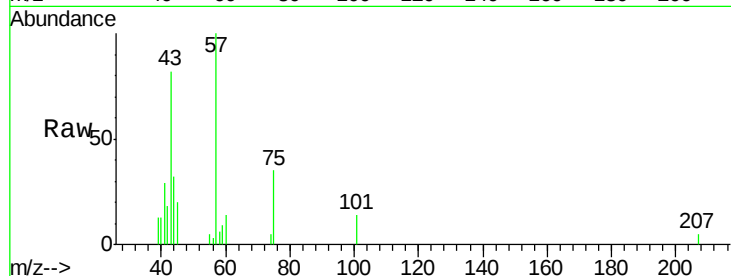
Tot Ion: 75 Resp: 2760

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

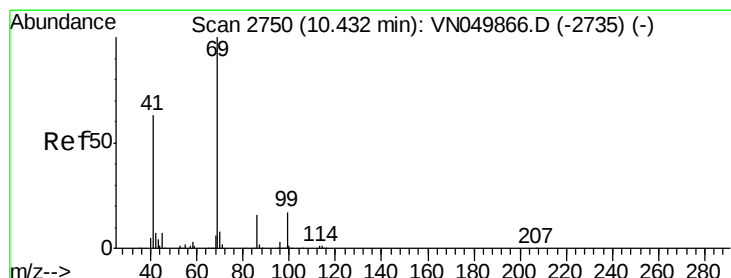
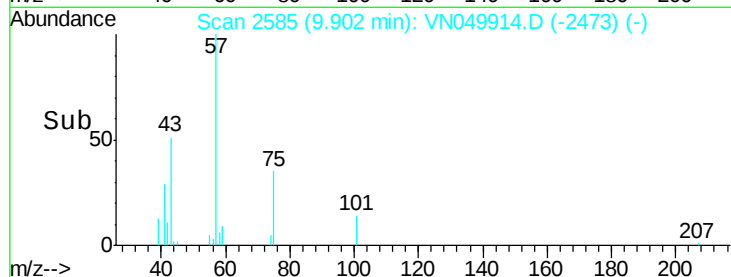
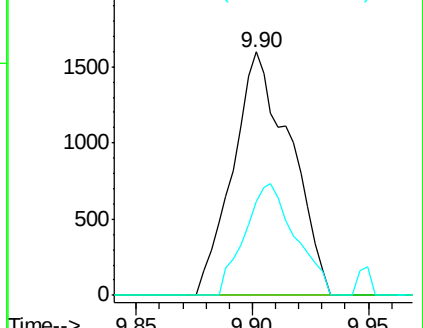
39 38.4 35.5 53.3



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 2.41 ug/l

RT: 10.22 min Scan# 2685

Delta R.T. -0.21 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

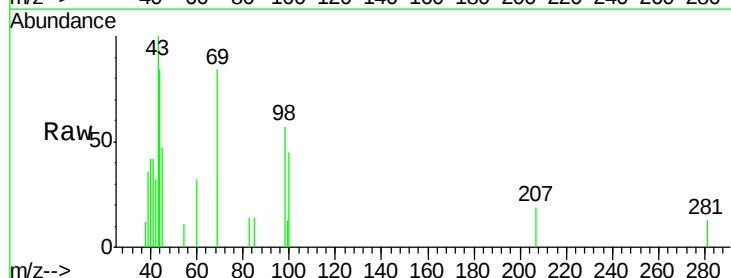
Tgt Ion: 69 Resp: 2807

Ion Ratio Lower Upper

69 100

41 50.1 51.6 77.4#

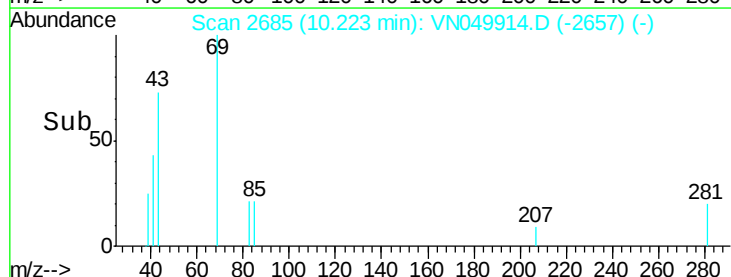
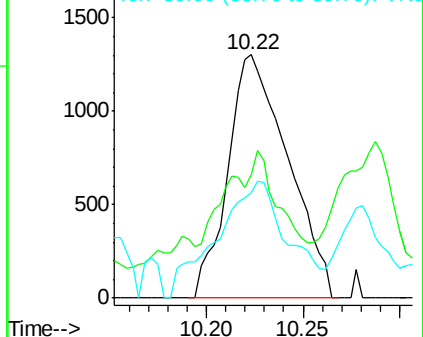
39 58.2 25.8 38.8#

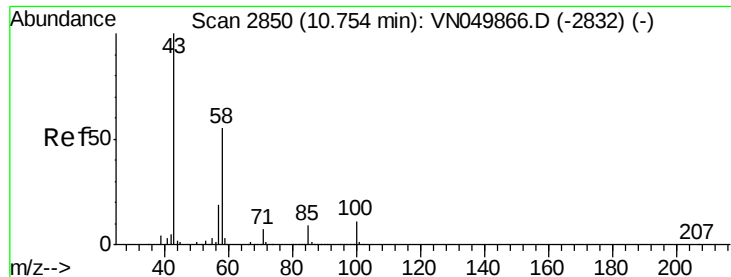


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#59

2-Hexanone

Concen: 4.32 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

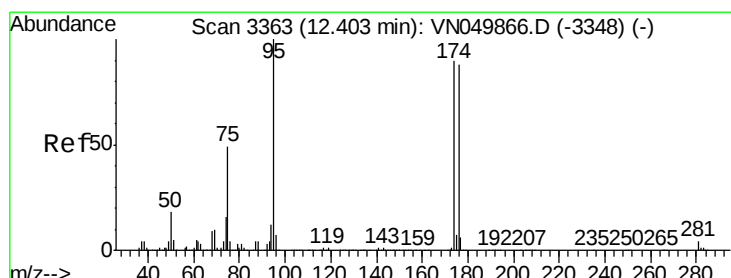
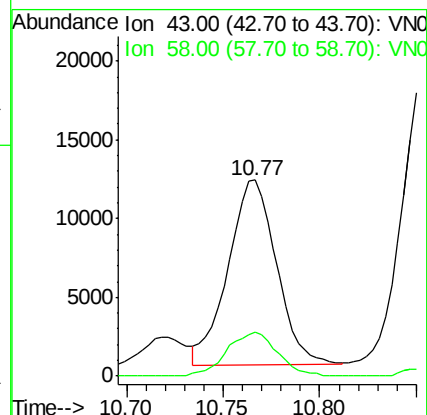
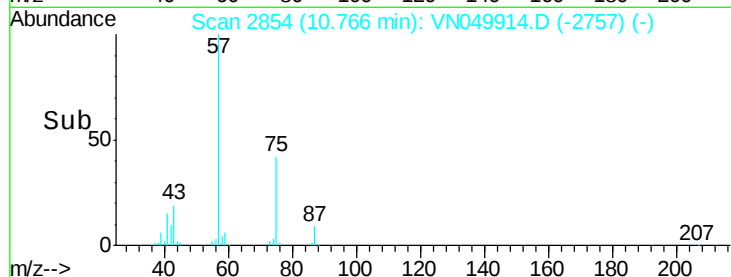
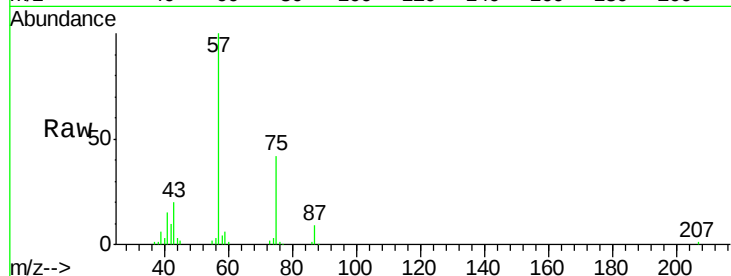
PB111251ZHE#01

Tot Ion: 43 Resp: 20355

Ion Ratio Lower Upper

43 100

58 25.0 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 36.20 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

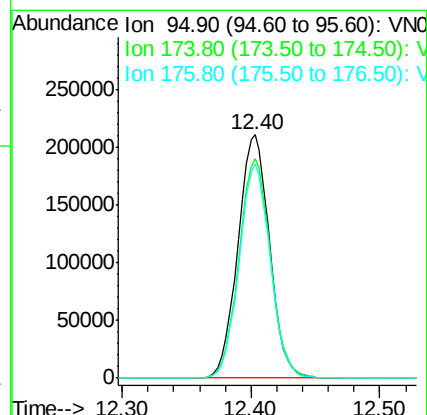
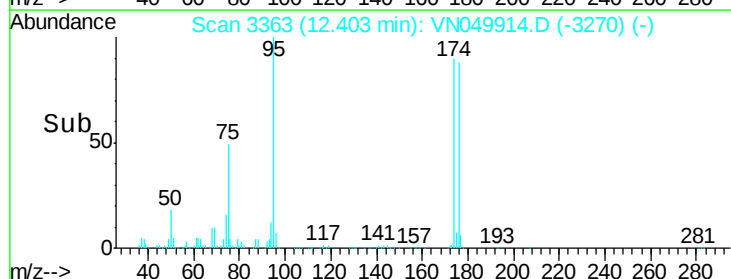
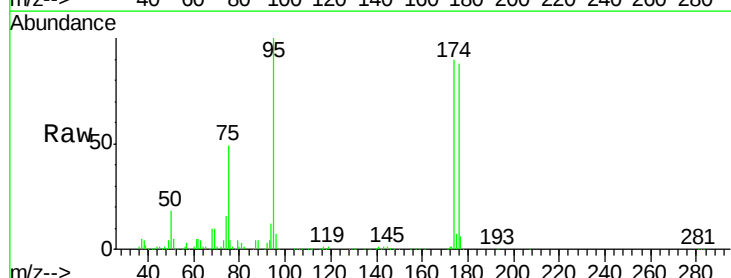
Tgt Ion: 95 Resp: 358980

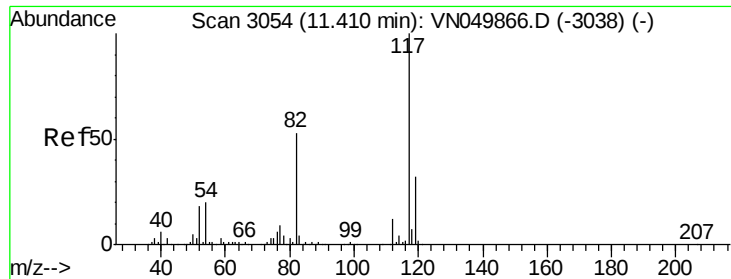
Ion Ratio Lower Upper

95 100

174 90.3 0.0 179.6

176 86.6 0.0 174.0

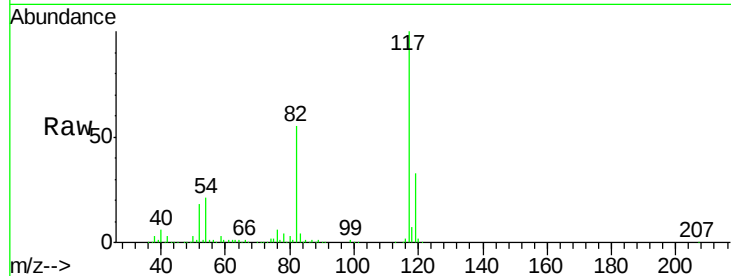




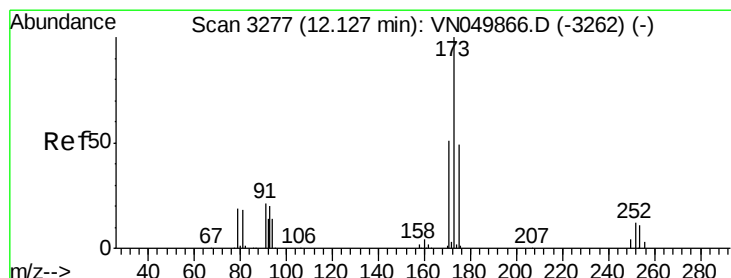
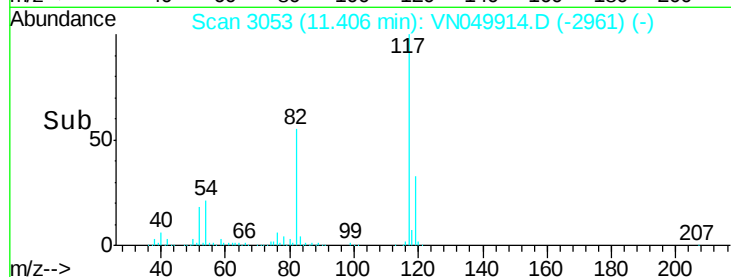
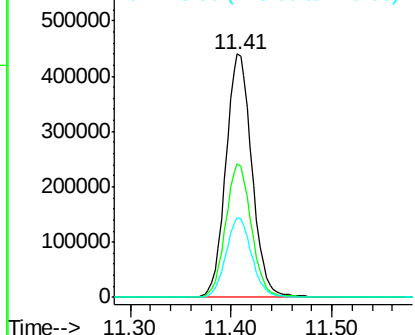
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN049914.D
Acq: 19 Jul 2018 14:15

Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#01

Tot Ion:117 Resp: 794147
Ion Ratio Lower Upper
117 100
82 55.1 41.9 62.9
119 32.5 25.4 38.2

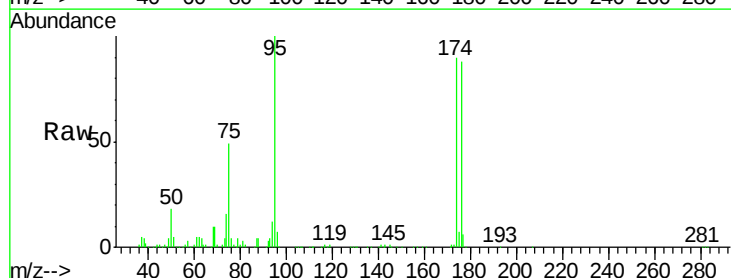


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

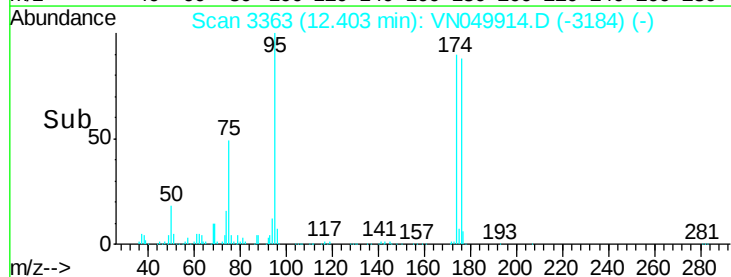
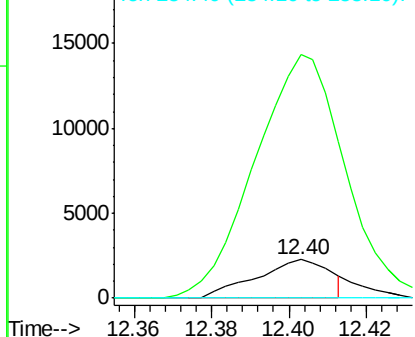


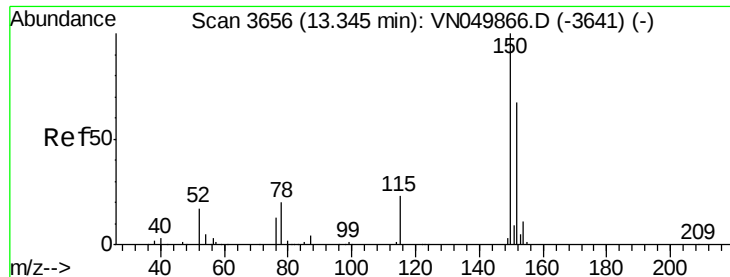
#71
Bromoform
Concen: 0.54 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049914.D
Acq: 19 Jul 2018 14:15

Tgt Ion:173 Resp: 3011
Ion Ratio Lower Upper
173 100
175 662.6 24.6 73.8#
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: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#01

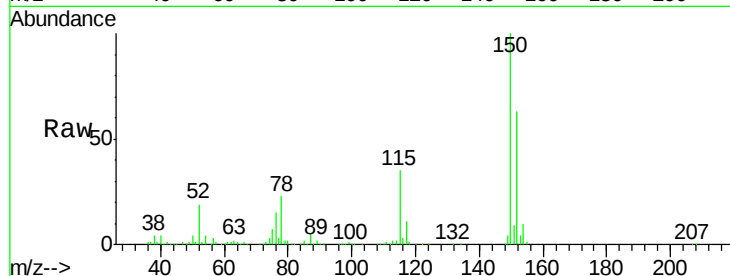
Tot Ion:152 Resp: 291967

Ion Ratio Lower Upper

152 100

115 56.6 28.1 84.2

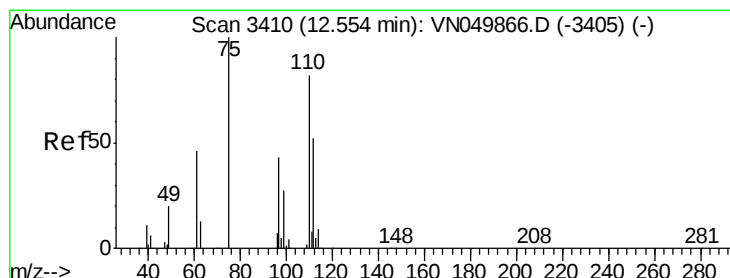
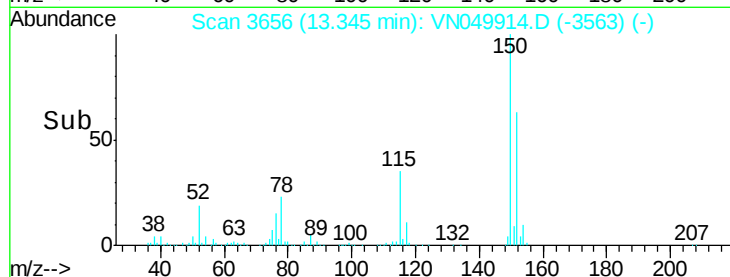
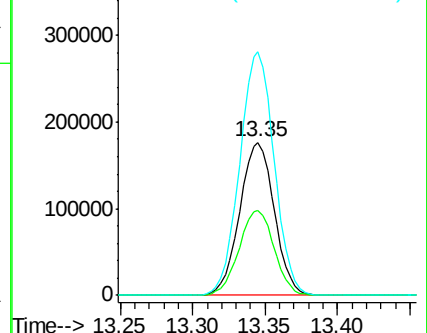
150 158.6 0.0 347.6



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



#76

1,2,3-Trichloropropane

Concen: 32.05 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049914.D

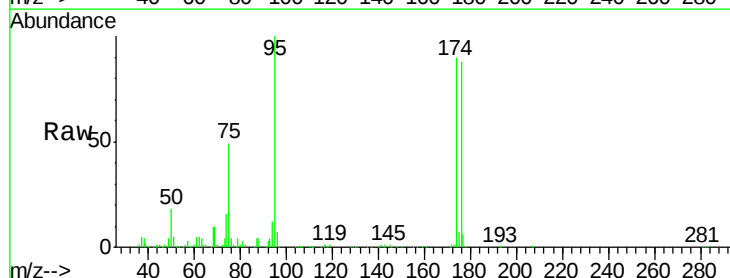
Acq: 19 Jul 2018 14:15

Tgt Ion: 75 Resp: 175561

Ion Ratio Lower Upper

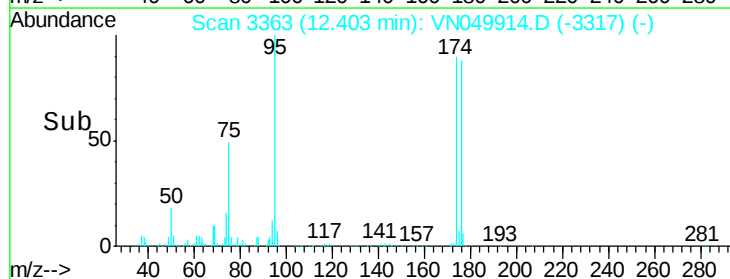
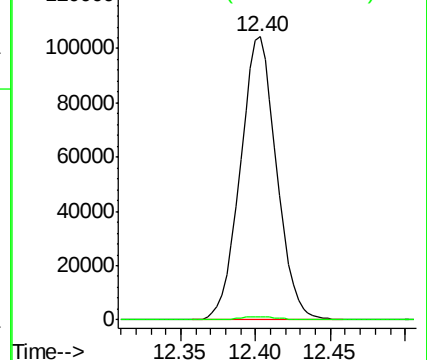
75 100

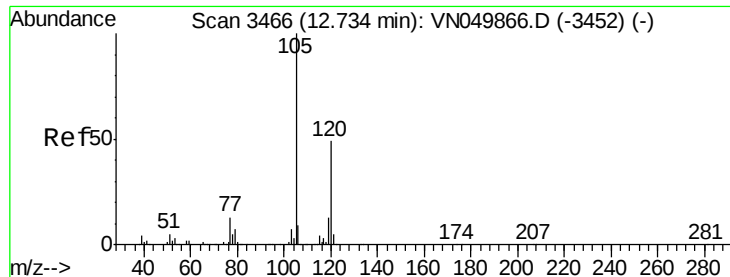
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

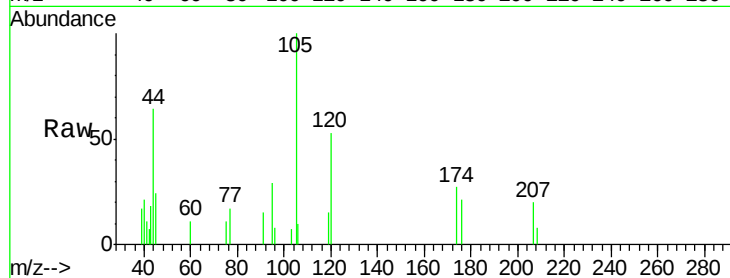
PB111251ZHE#01

Tot Ion:105 Resp: 3712

Ion Ratio Lower Upper

105 100

120 47.7 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2500

2000

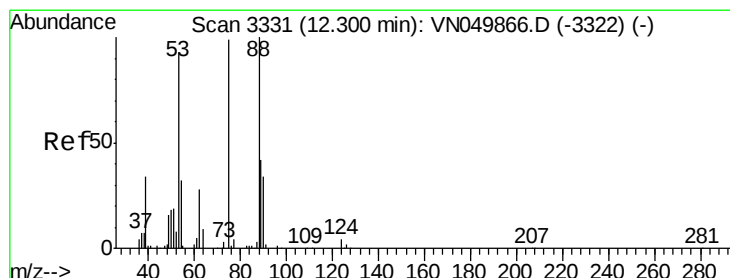
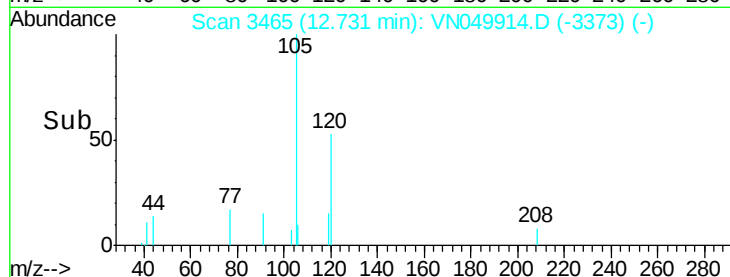
1500

1000

500

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 100.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

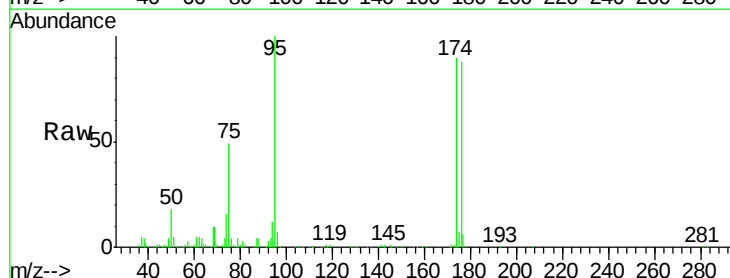
Tgt Ion: 75 Resp: 175561

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

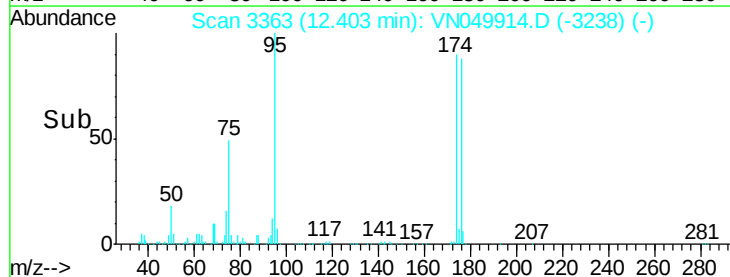
Ion 88.90 (88.60 to 89.60): VNO

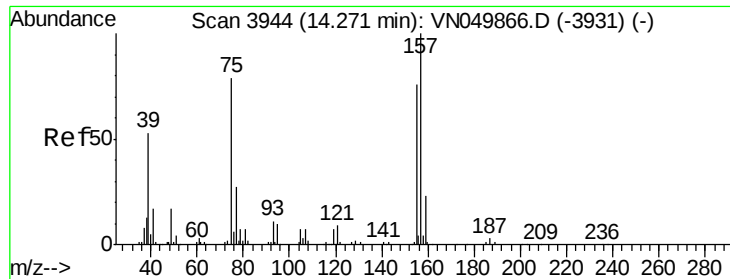
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.29 ug/l

RT: 14.26 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#01

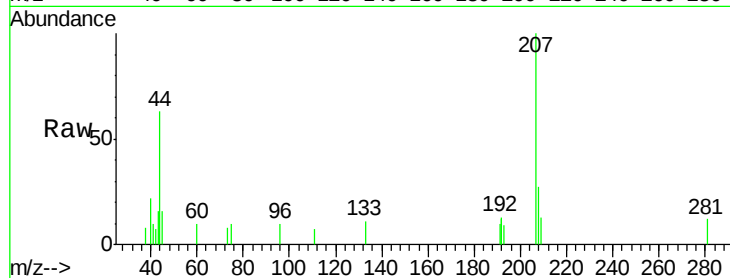
Tot Ion: 75 Resp: 296

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

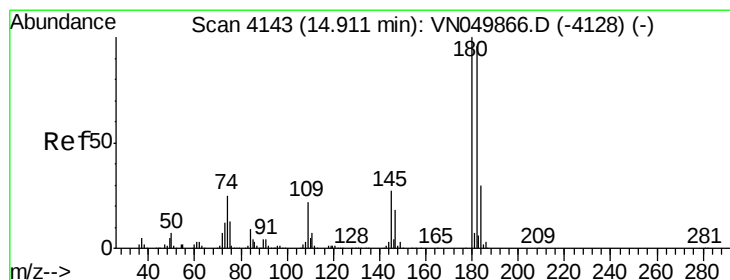
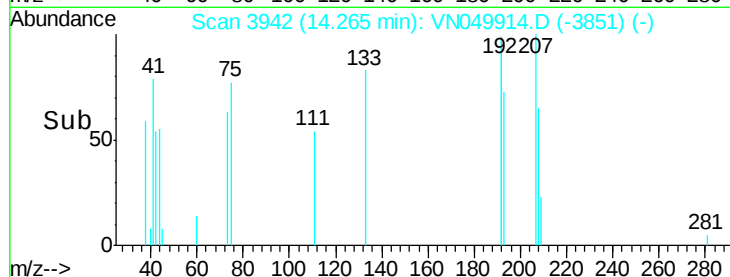
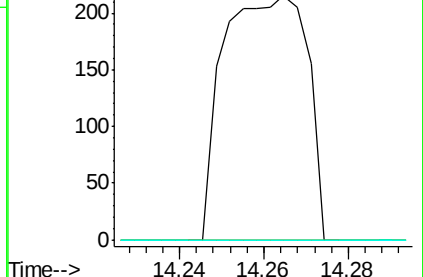
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049914.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049914.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049914.D (-3851) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.51 ug/l

RT: 14.90 min Scan# 4140

Delta R.T. -0.01 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

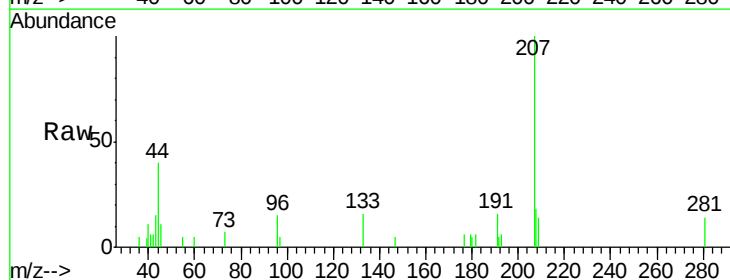
Tgt Ion: 180 Resp: 207

Ion Ratio Lower Upper

180 100

182 255.1 47.3 141.9#

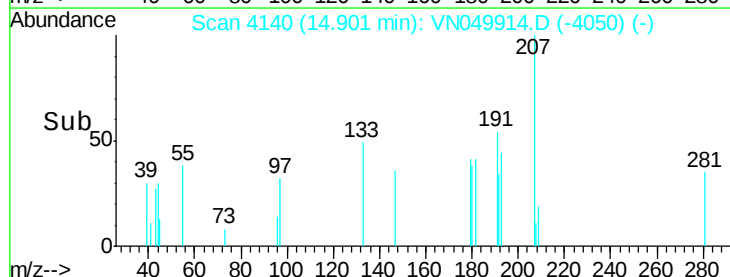
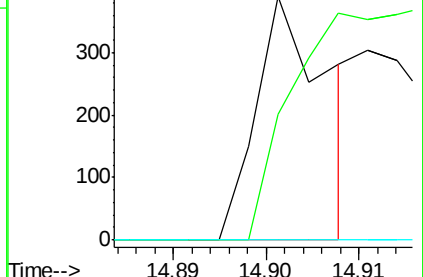
145 0.0 14.4 43.0#

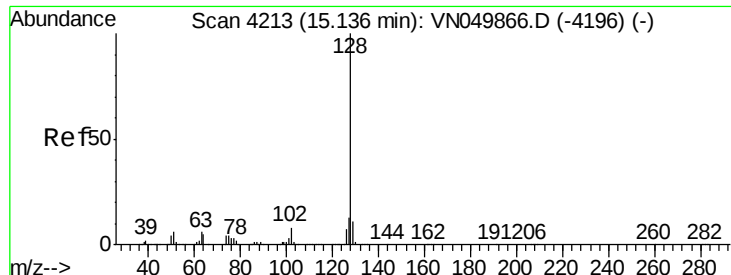


Abundance Ion 179.80 (179.50 to 180.50): VN049914.D (-4050) (-)

Ion 181.80 (181.50 to 182.50): VN049914.D (-4050) (-)

Ion 144.80 (144.50 to 145.50): VN049914.D (-4050) (-)





#95

Naphthalene

Concen: 4.58 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049914.D

Acq: 19 Jul 2018 14:15

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#01

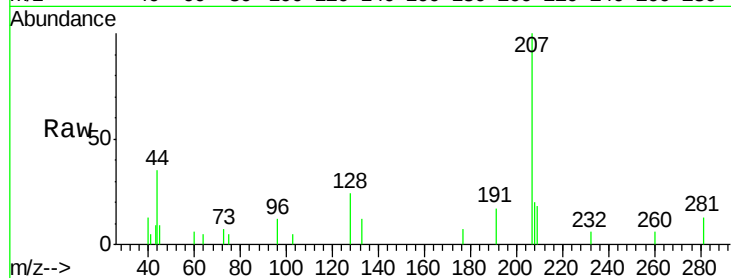
Tot Ion:128 Resp: 1337

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

