

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
 Data File : VN050216.D
 Acq On : 31 Jul 2018 15:42
 Operator : MD\SY
 Sample : PB111613ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111613ZHE#04

Quant Time: Jul 31 18:07:13 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	644236	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1090595	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	911819	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	312964	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	463946	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
35) Dibromofluoromethane	7.59	113	413822	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
50) Toluene-d8	10.09	98	1463194	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	
62) 4-Bromofluorobenzene	12.40	95	386671	35.87	ug/l	0.00
Spiked Amount			Recovery	=	71.74%	

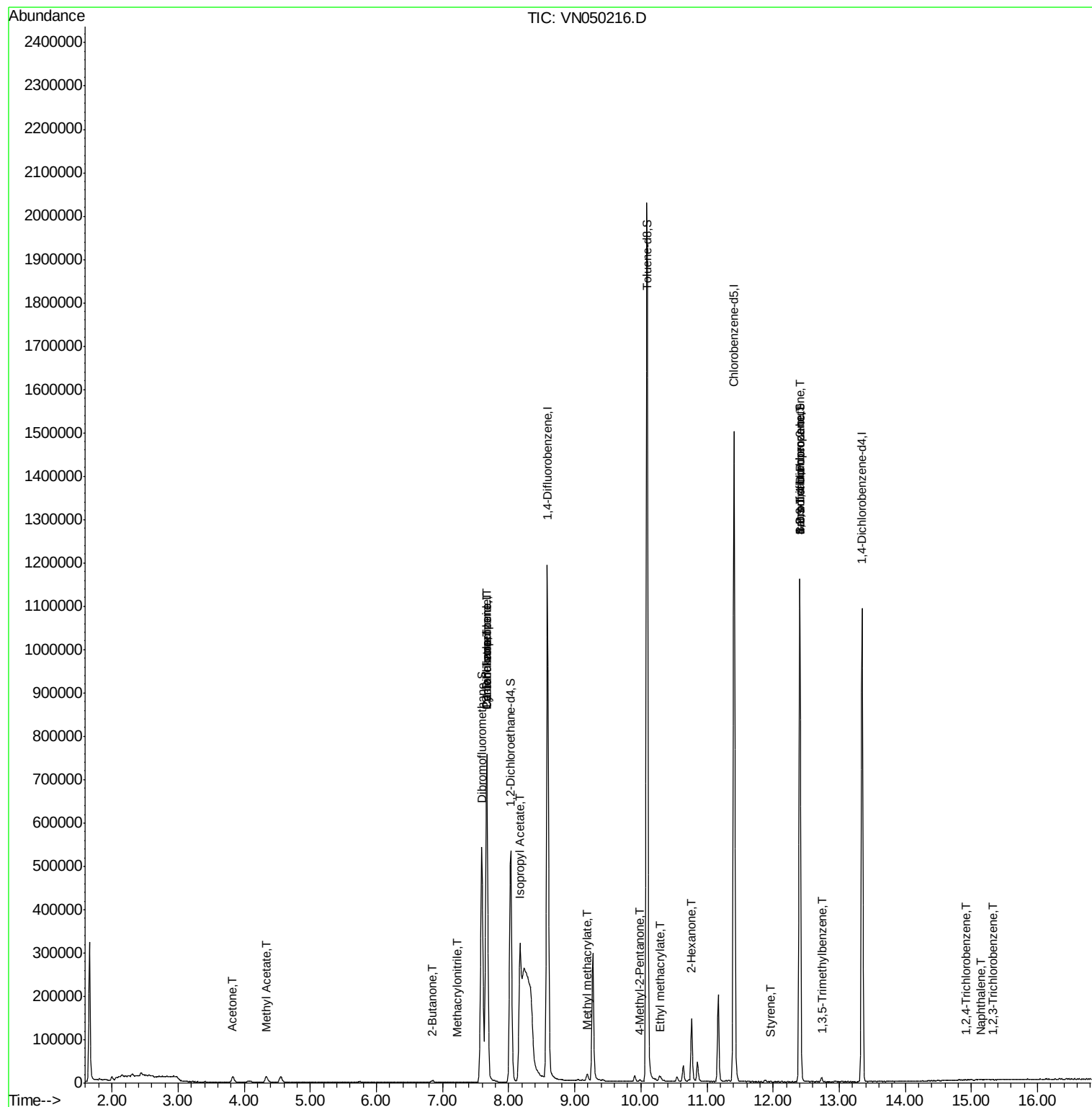
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1014	Below Cal		86
16) Acetone	3.83	43	21969	6.14	ug/l	93
18) Methyl Acetate	4.33	43	26477	1.64	ug/l	94
20) Methylene Chloride	4.55	84	9756	Below Cal		96
25) 2-Butanone	6.85	43	4236	1.24	ug/l	93
31) Cyclohexane	7.66	56	11990	0.90	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45186	3.68	ug/l #	48
38) Carbon Tetrachloride	7.67	117	58555	4.49	ug/l #	17
41) Methacrylonitrile	7.22	41	425	2.84	ug/l #	29
43) Isopropyl Acetate	8.17	43	388865	23.48	ug/l #	89
48) Methyl methacrylate	9.18	41	9007	1.22	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	2789	0.33	ug/l	100
56) Ethyl methacrylate	10.30	69	106	2.04	ug/l #	26
59) 2-Hexanone	10.77	43	20606	8.44	ug/l #	58
70) Styrene	11.97	104	485	0.94	ug/l #	25
71) Bromoform	12.41	173	3610	0.56	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	145	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	188888	32.48	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4305	0.23	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	188888	103.01	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	160	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.92	180	186	3.12	ug/l #	75
95) Naphthalene	15.15	128	796	4.47	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.33	180	96	2.22	ug/l #	62

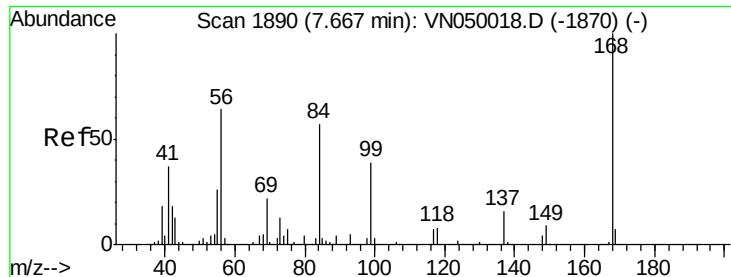
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Jul 31 18:07:13 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 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: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

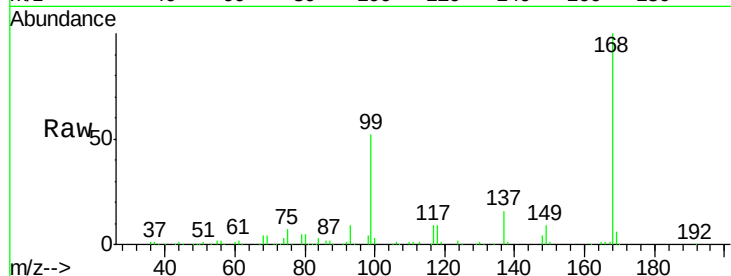
PB111613ZHE#04

Tot Ion:168 Resp: 644236

Ion Ratio Lower Upper

168 100

99 51.8 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

250000

200000

150000

100000

50000

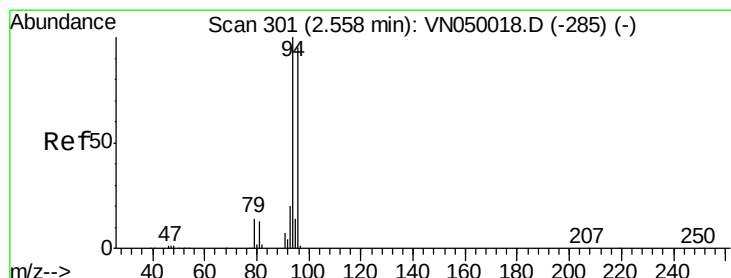
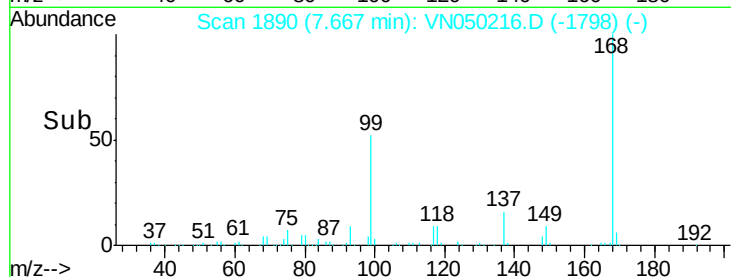
0

Time-->

7.60

7.70

7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.02 min

Lab File: VN050216.D

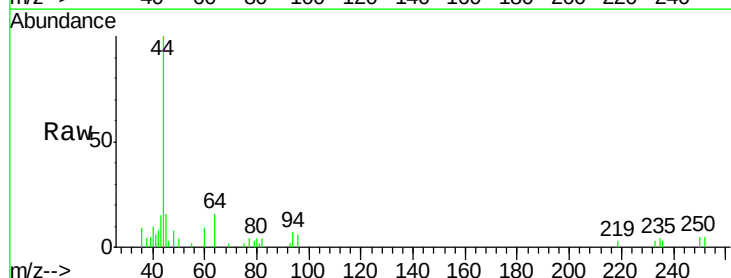
Acq: 31 Jul 2018 15:42

Tgt Ion: 94 Resp: 1014

Ion Ratio Lower Upper

94 100

96 79.5 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

500

400

300

200

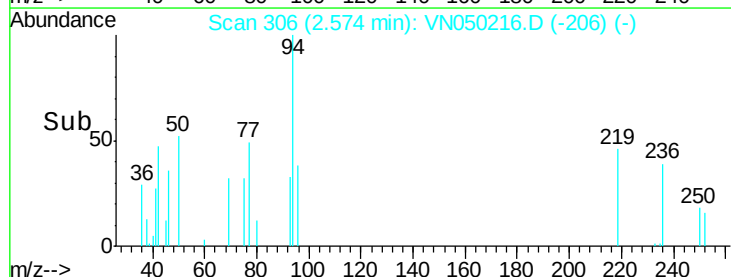
100

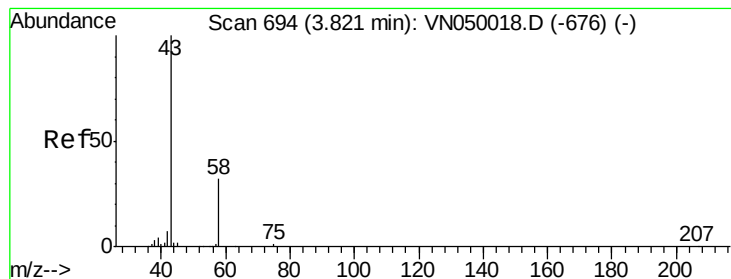
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Time-->

2.55

2.60





#16

Acetone

Concen: 6.14 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

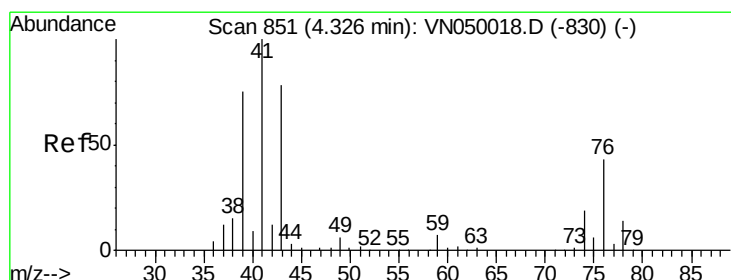
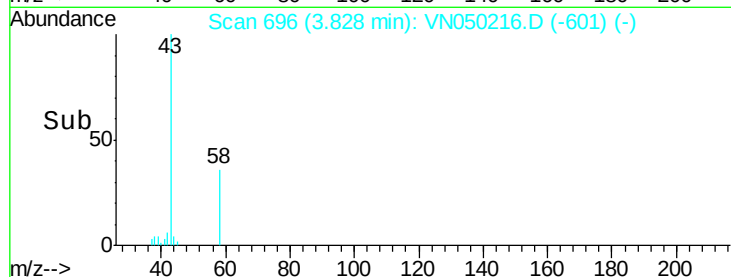
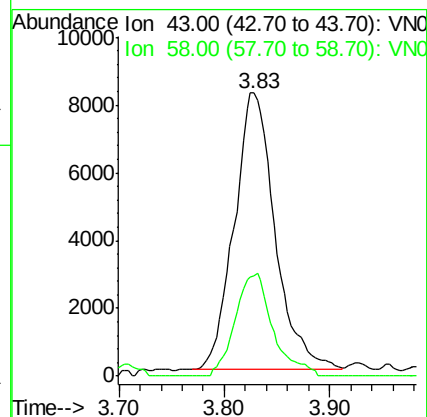
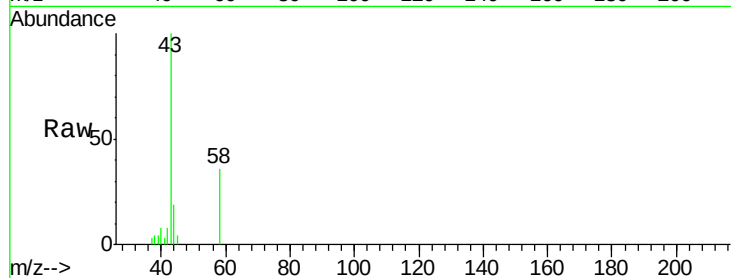
PB111613ZHE#04

Tot Ion: 43 Resp: 21969

Ion Ratio Lower Upper

43 100

58 36.5 25.8 38.8



#18

Methyl Acetate

Concen: 1.64 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050216.D

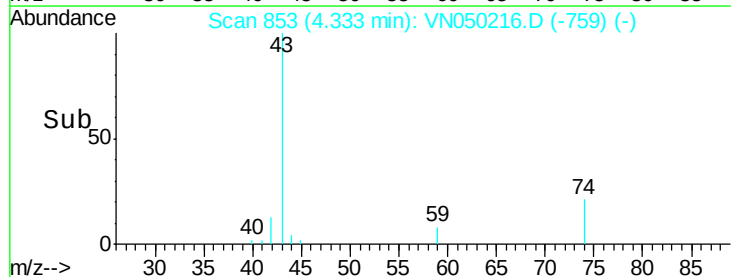
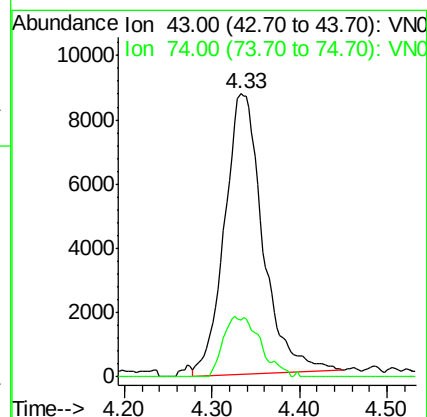
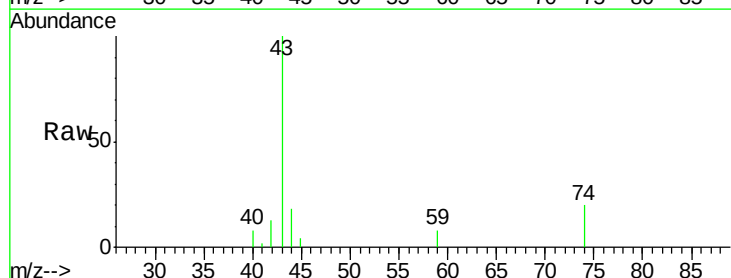
Acq: 31 Jul 2018 15:42

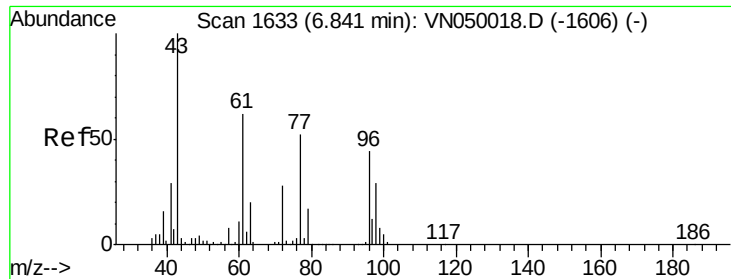
Tgt Ion: 43 Resp: 26477

Ion Ratio Lower Upper

43 100

74 21.1 19.2 28.8

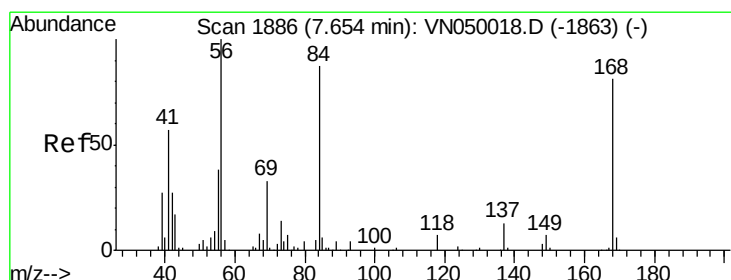
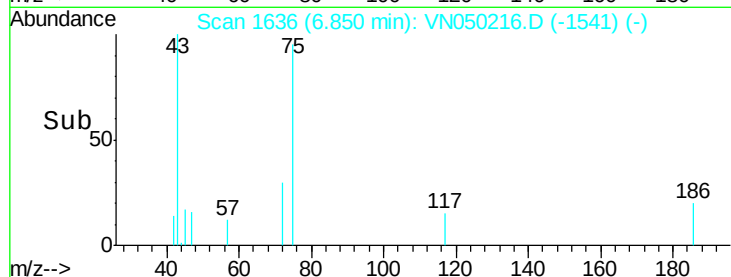
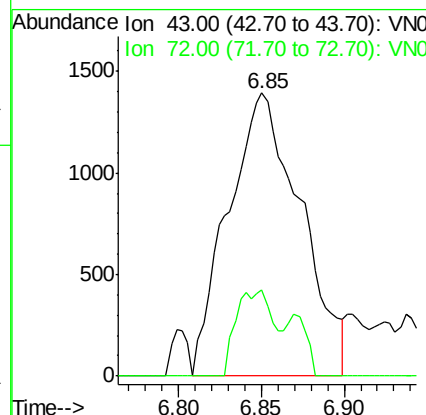
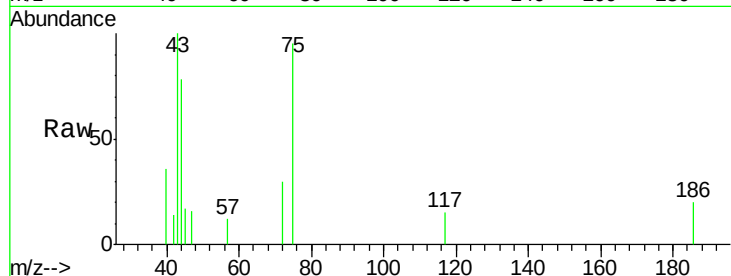




#25
2-Butanone
Concen: 1.24 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050216.D
Acq: 31 Jul 2018 15:42

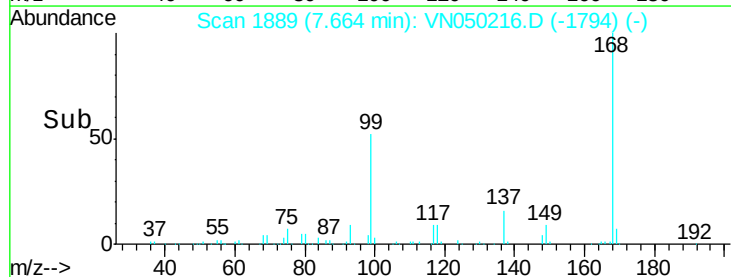
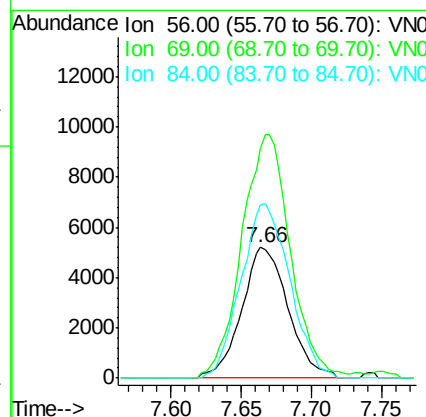
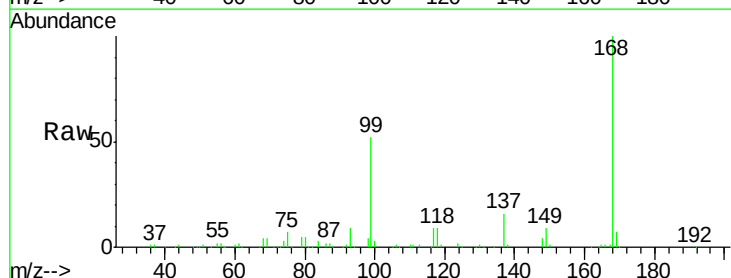
Instrument :
MSVOA_N
ClientSampleId :
PB111613ZHE#04

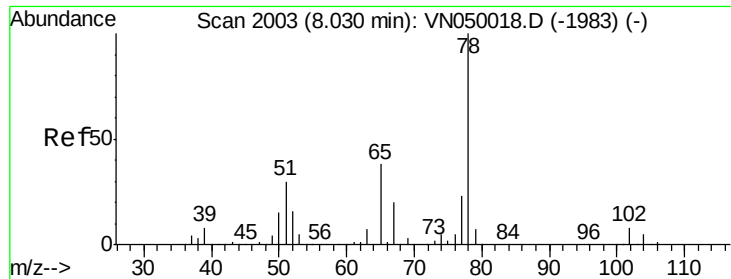
Tot Ion: 43 Resp: 4236
Ion Ratio Lower Upper
43 100
72 30.4 21.5 32.3



#31
Cyclohexane
Concen: 0.90 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050216.D
Acq: 31 Jul 2018 15:42

Tgt Ion: 56 Resp: 11990
Ion Ratio Lower Upper
56 100
69 176.2 26.2 39.4#
84 132.4 67.4 101.0#

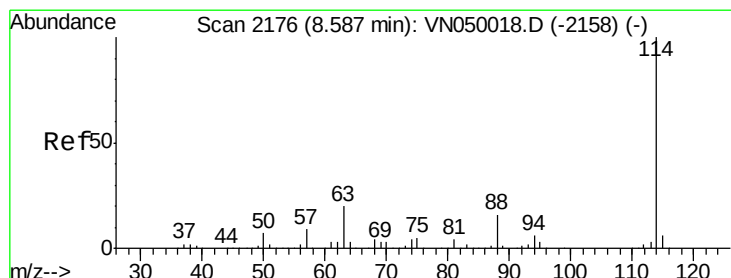
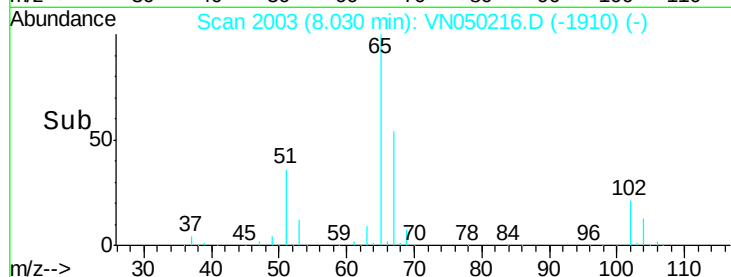
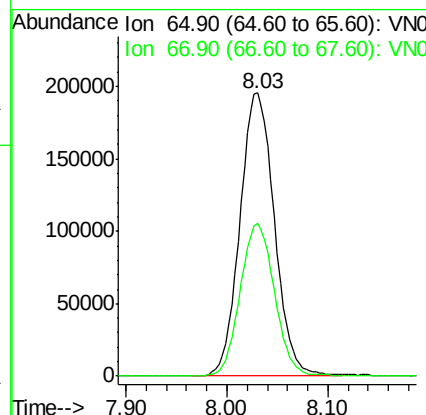
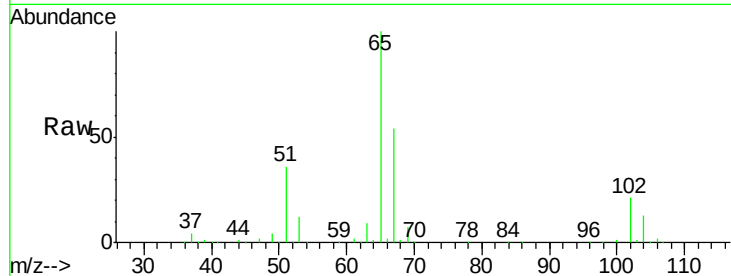




#33
 1,2-Dichloroethane-d4
 Concen: 51.62 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050216.D
 Acq: 31 Jul 2018 15:42

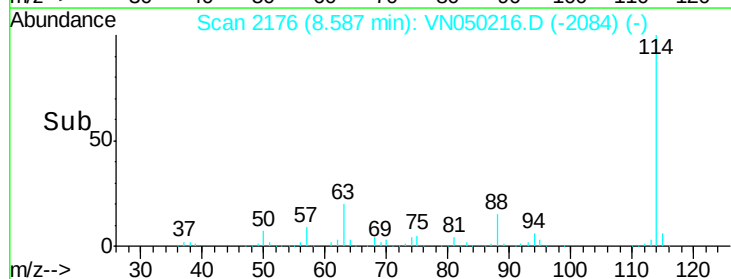
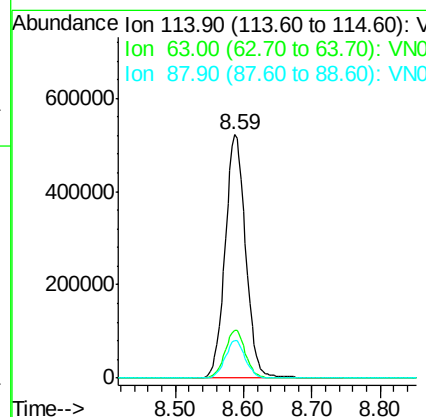
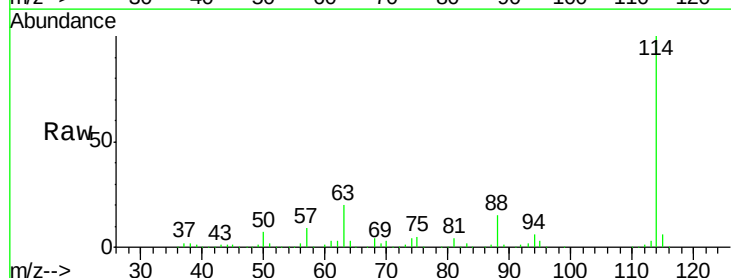
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111613ZHE#04

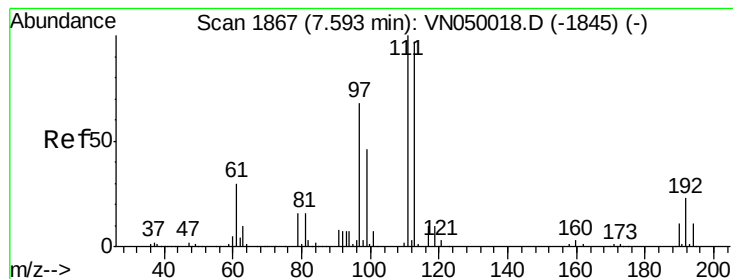
Tot Ion: 65 Resp: 463946
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050216.D
 Acq: 31 Jul 2018 15:42

Tgt Ion: 114 Resp: 1090595
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.4 0.0 31.2





#35

Dibromofluoromethane

Concen: 46.47 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#04

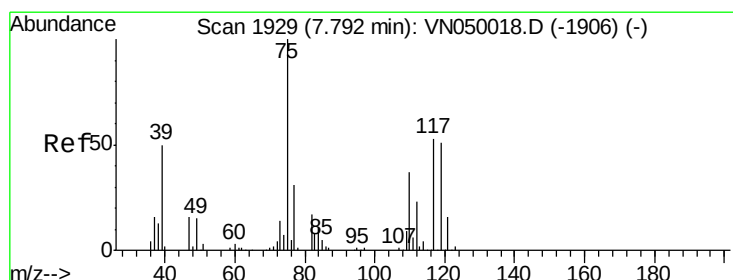
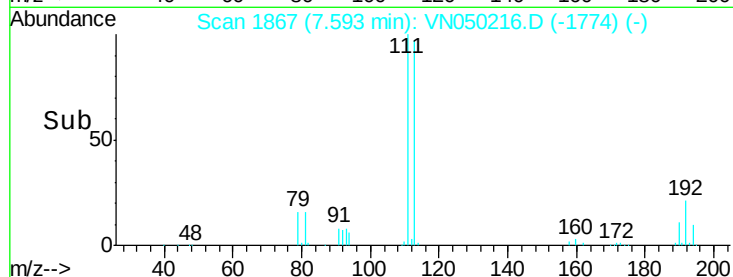
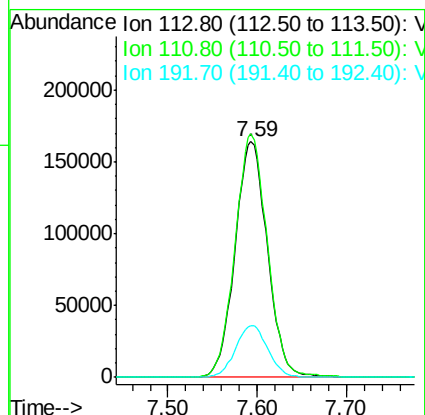
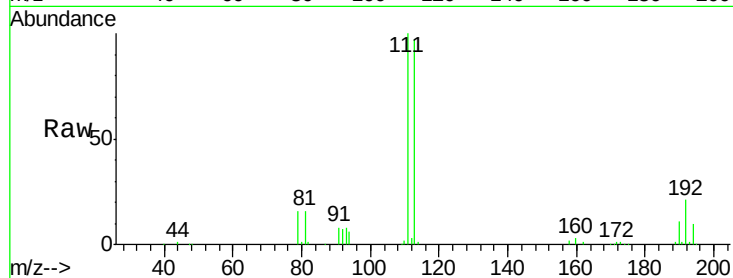
Tot Ion:113 Resp: 413822

Ion Ratio Lower Upper

113 100

111 103.0 80.7 121.1

192 22.1 17.8 26.6



#36

1,1-Dichloropropene

Concen: 3.68 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

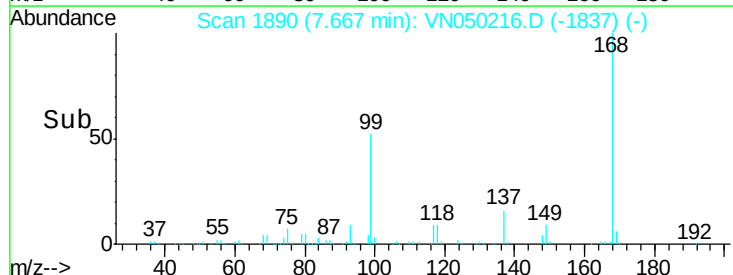
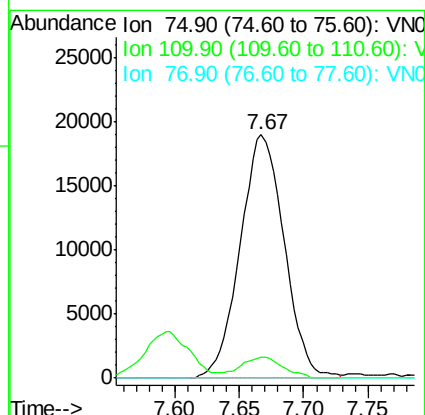
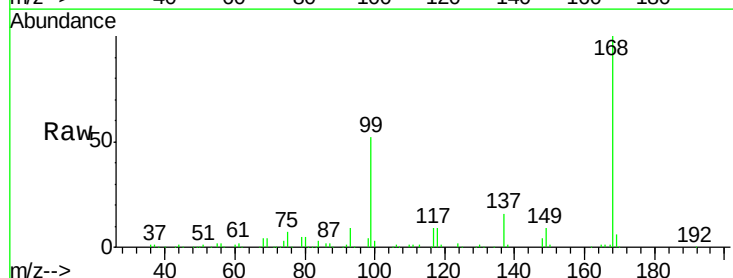
Tgt Ion: 75 Resp: 45186

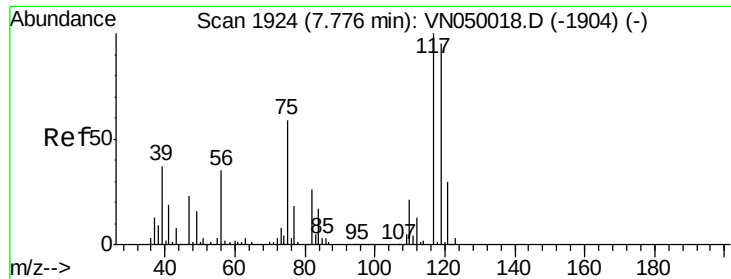
Ion Ratio Lower Upper

75 100

110 8.5 18.4 55.2#

77 0.0 25.3 37.9#

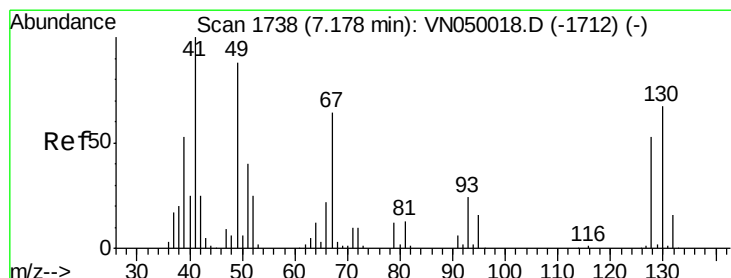
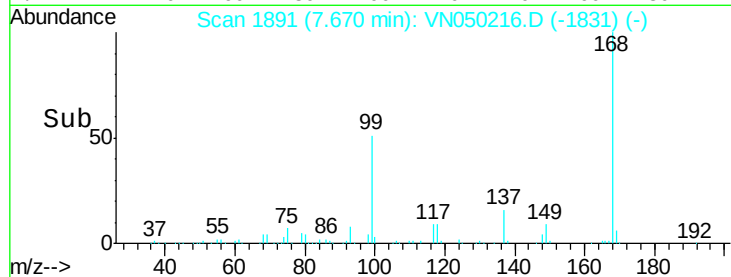
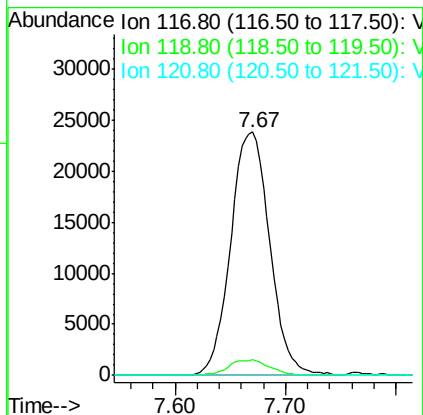
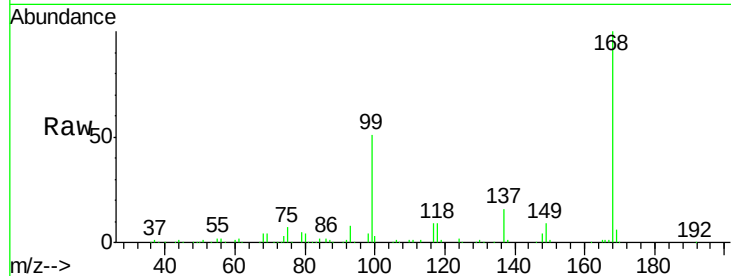




#38
Carbon Tetrachloride
Concen: 4.49 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050216.D
Acq: 31 Jul 2018 15:42

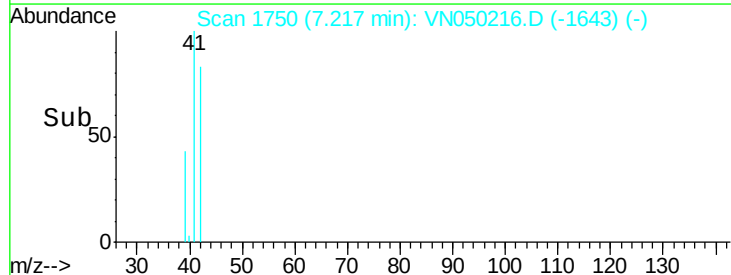
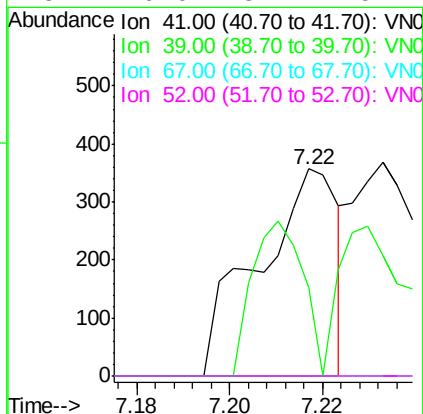
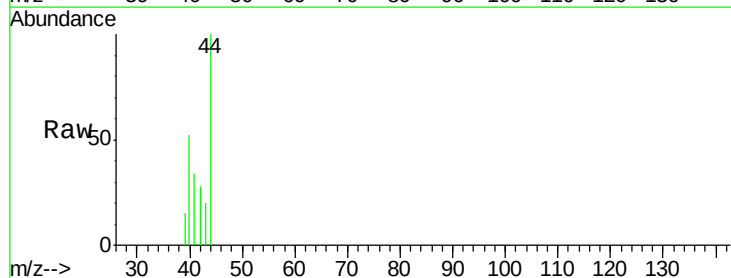
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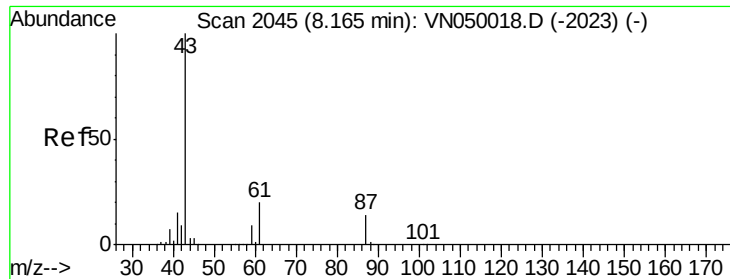
Tot Ion:117 Resp: 58555
Ion Ratio Lower Upper
117 100
119 6.3 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 2.84 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.04 min
Lab File: VN050216.D
Acq: 31 Jul 2018 15:42

Tgt Ion: 41 Resp: 425
Ion Ratio Lower Upper
41 100
39 47.3 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#





#43

Isopropyl Acetate

Concen: 23.48 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#04

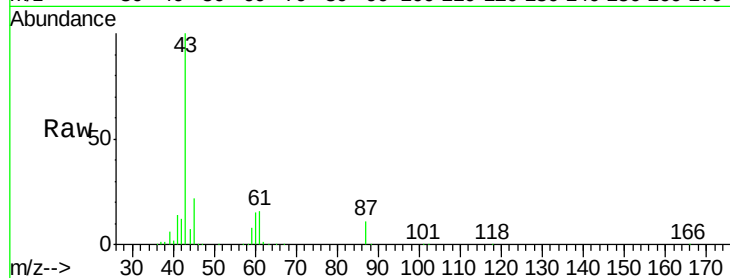
Tot Ion: 43 Resp: 388865

Ion Ratio Lower Upper

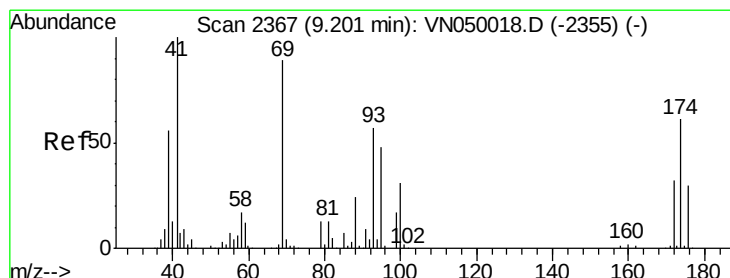
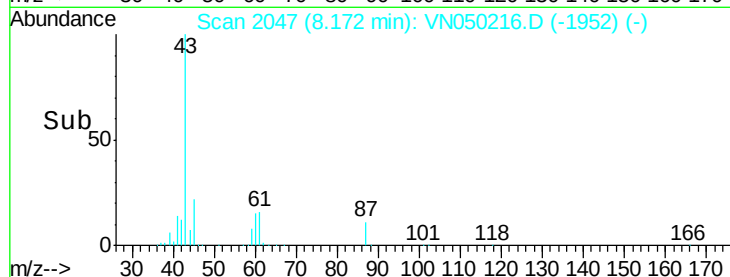
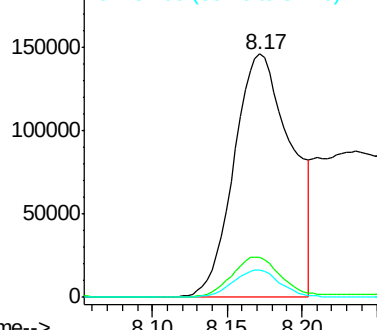
43 100

61 14.3 15.8 23.6#

87 9.4 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.22 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

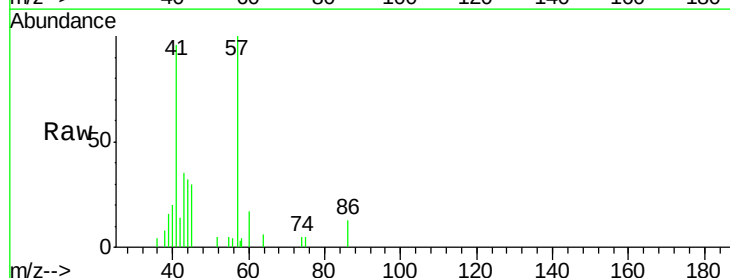
Tgt Ion: 41 Resp: 9007

Ion Ratio Lower Upper

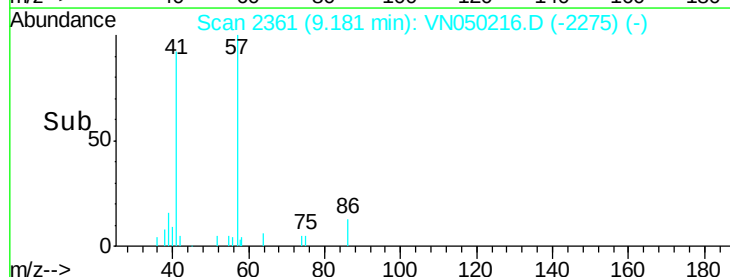
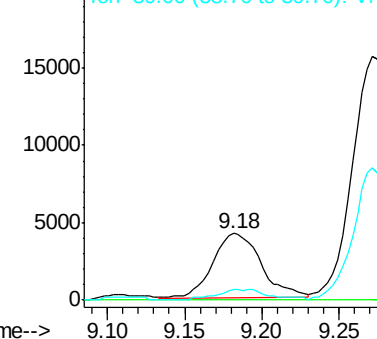
41 100

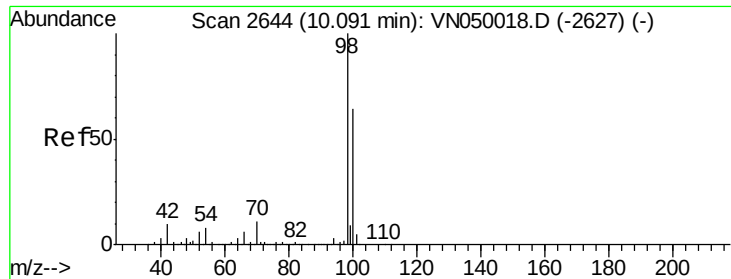
69 0.0 70.6 105.8#

39 17.9 43.9 65.9#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

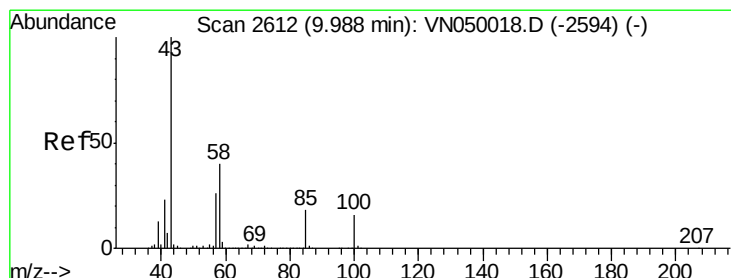
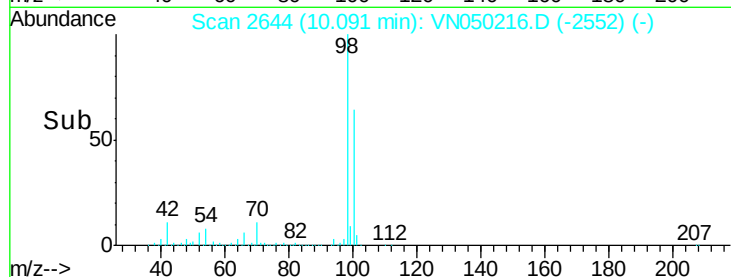
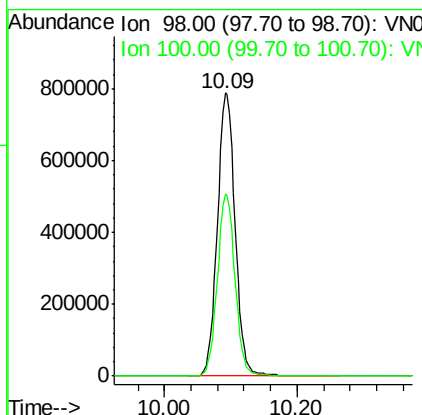
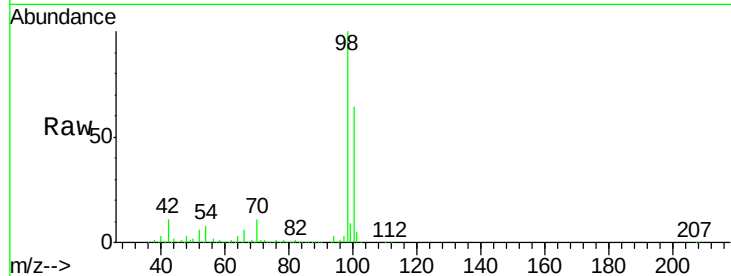




#50
Toluene-d8
Concen: 44.70 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050216.D
Acq: 31 Jul 2018 15:42

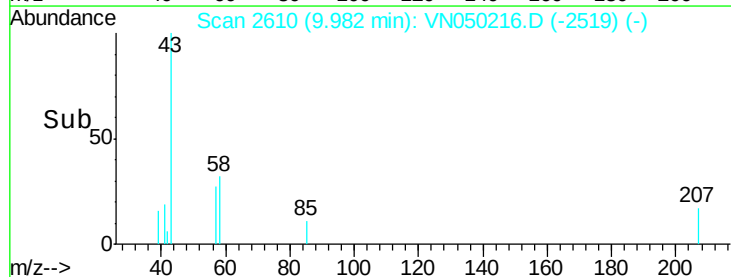
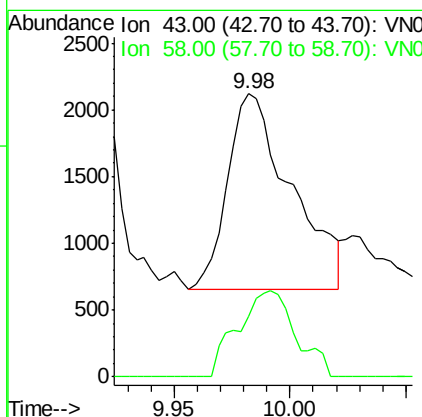
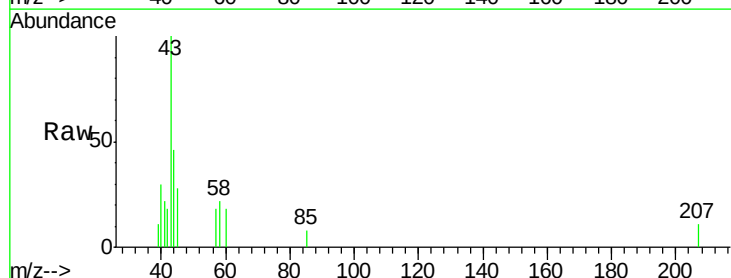
Instrument :
MSVOA_N
ClientSampleId :
PB111613ZHE#04

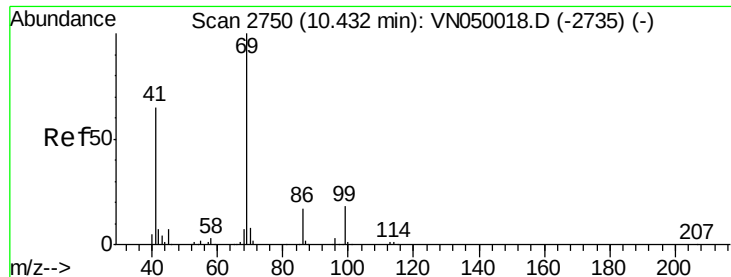
Tot Ion: 98 Resp: 1463194
Ion Ratio Lower Upper
98 100
100 63.9 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.33 ug/l
RT: 9.98 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VN050216.D
Acq: 31 Jul 2018 15:42

Tgt Ion: 43 Resp: 2789
Ion Ratio Lower Upper
43 100
58 40.1 31.9 47.9





#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.30 min Scan# 2709

Delta R.T. -0.13 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#04

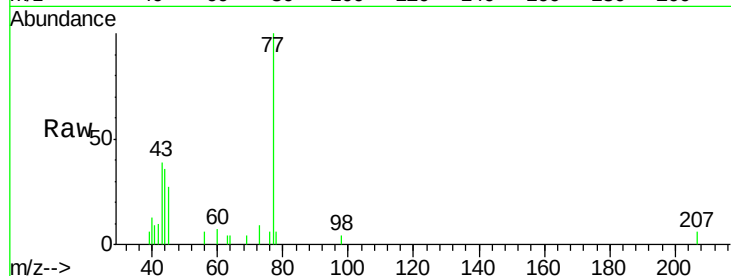
Tot Ion: 69 Resp: 106

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

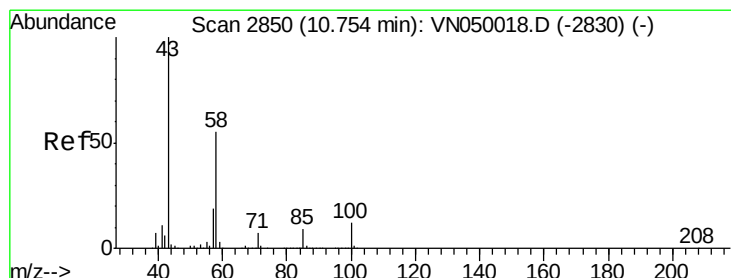
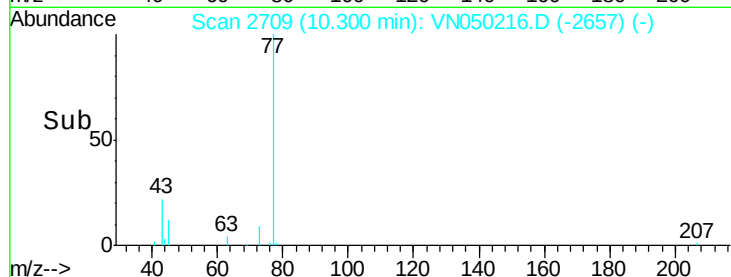
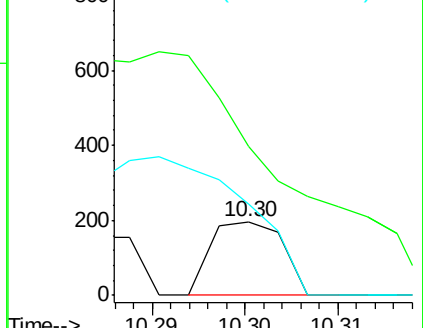
39 0.0 26.6 40.0#



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



#59

2-Hexanone

Concen: 8.44 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN050216.D

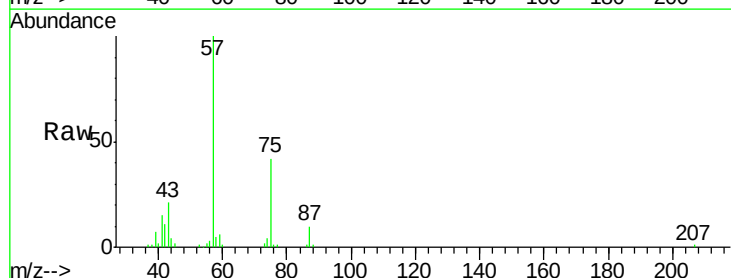
Acq: 31 Jul 2018 15:42

Tgt Ion: 43 Resp: 20606

Ion Ratio Lower Upper

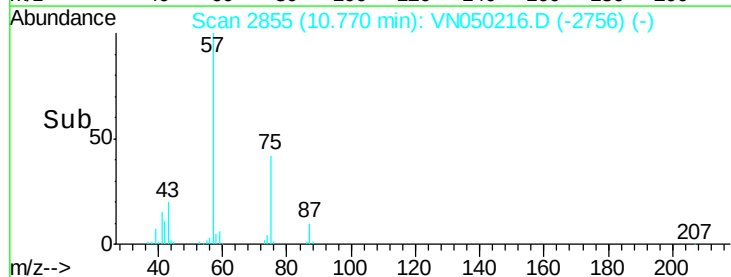
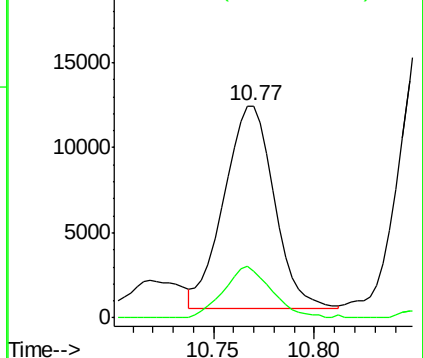
43 100

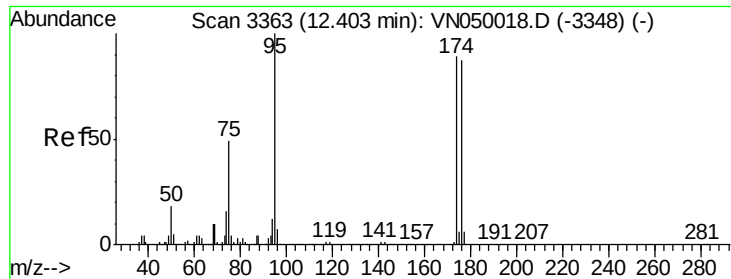
58 24.4 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

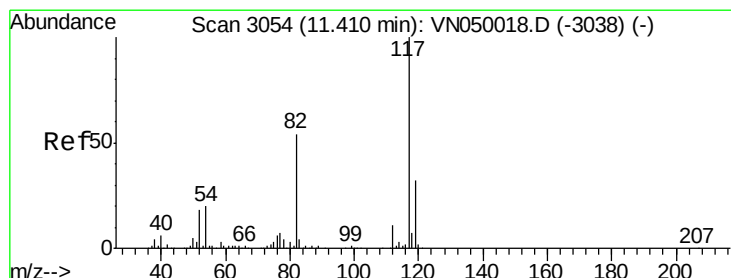
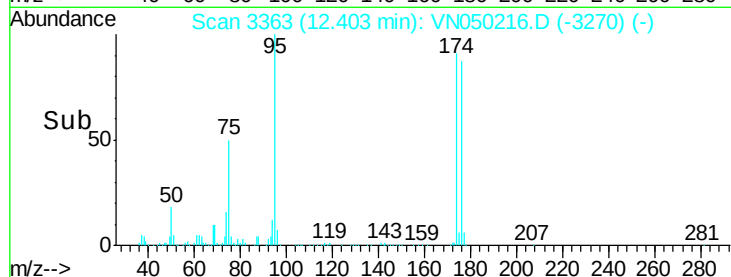
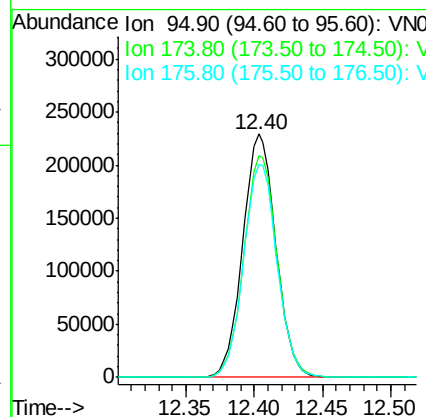
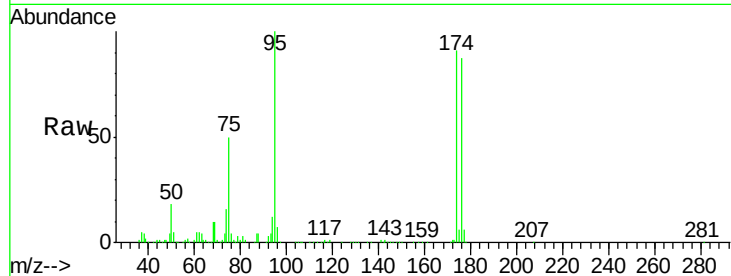




#62
4-Bromofluorobenzene
Concen: 35.87 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050216.D
Acq: 31 Jul 2018 15:42

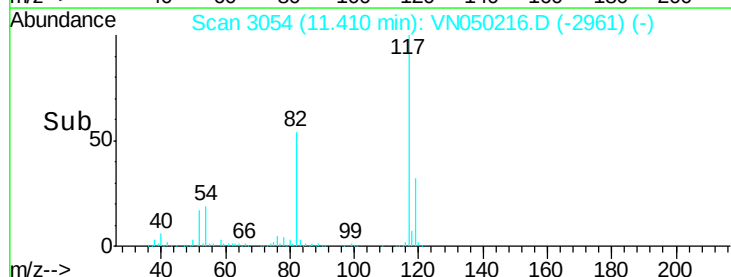
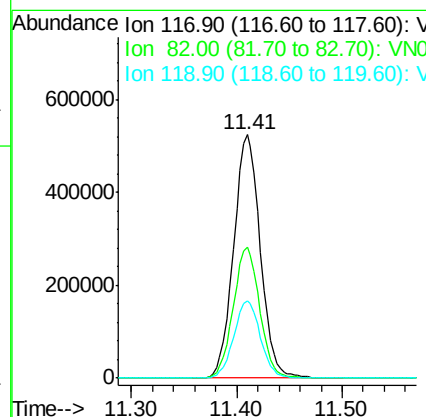
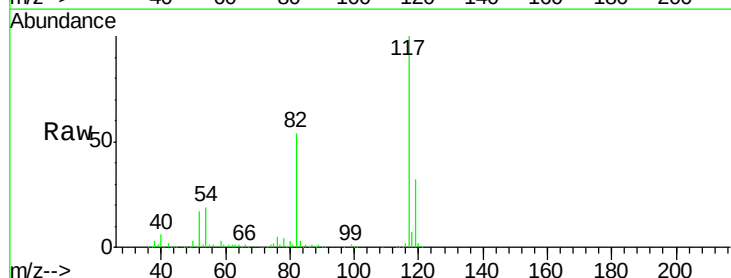
Instrument :
MSVOA_N
ClientSampleId :
PB111613ZHE#04

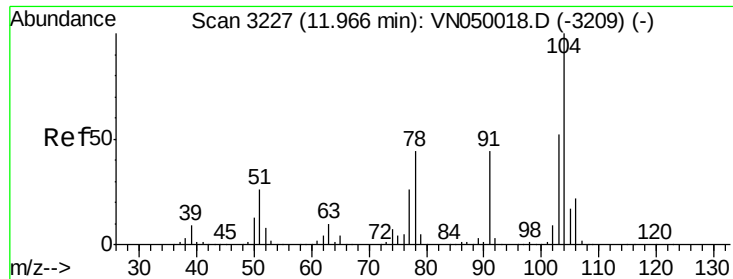
Tot Ion: 95 Resp: 386671
Ion Ratio Lower Upper
95 100
174 91.7 0.0 178.2
176 88.3 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050216.D
Acq: 31 Jul 2018 15:42

Tgt Ion: 117 Resp: 911819
Ion Ratio Lower Upper
117 100
82 53.6 43.7 65.5
119 31.8 26.1 39.1





#70

Stvrene

Concen: 0.94 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#04

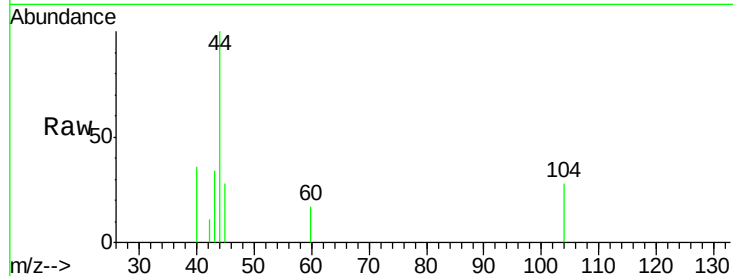
Tot Ion:104 Resp: 485

Ion Ratio Lower Upper

104 100

78 0.0 39.3 58.9#

103 0.0 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V

11.97

400

300

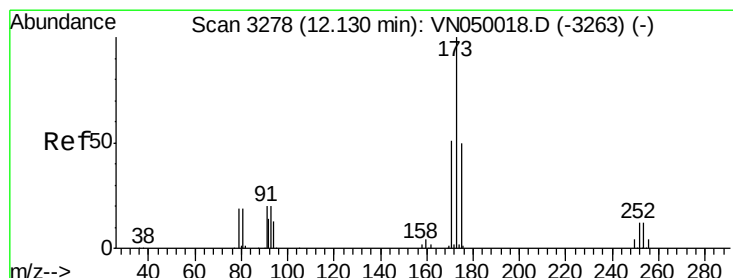
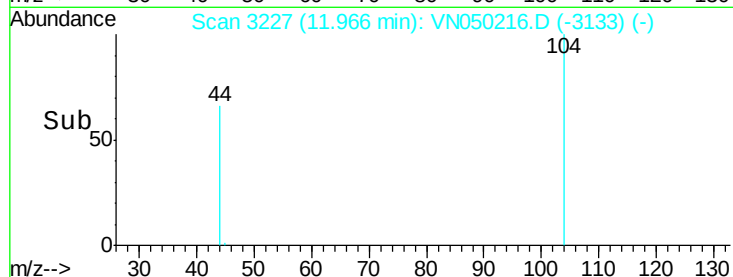
200

100

0

11.94 11.96 11.98

Time-->



#71

Bromoform

Concen: 0.56 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

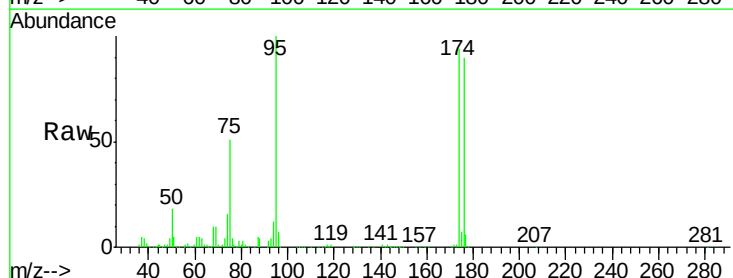
Tgt Ion:173 Resp: 3610

Ion Ratio Lower Upper

173 100

175 619.3 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

20000

15000

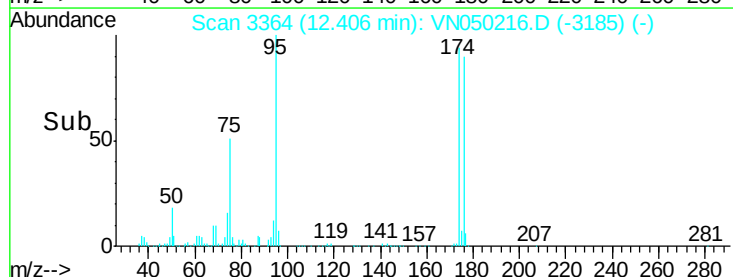
10000

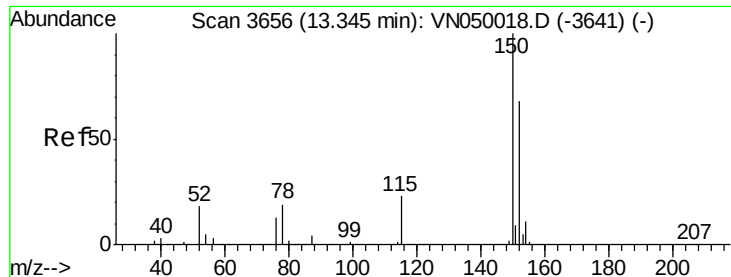
5000

0

12.36 12.38 12.40 12.42

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#04

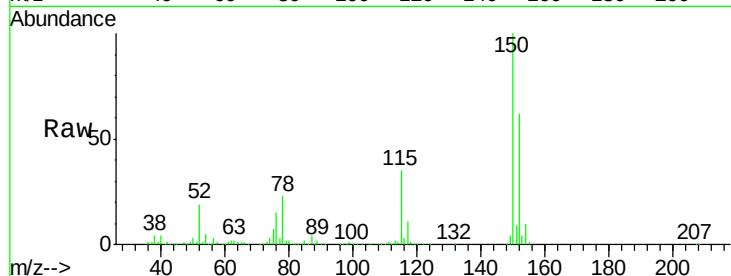
Tot Ion:152 Resp: 312964

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.3

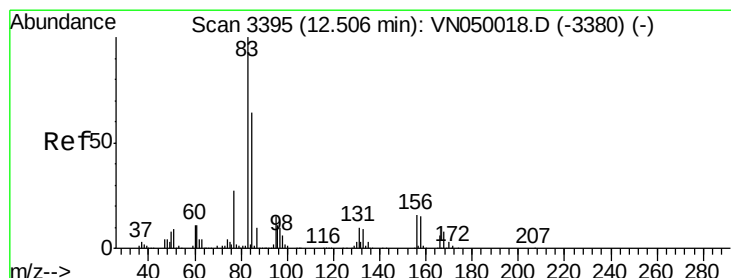
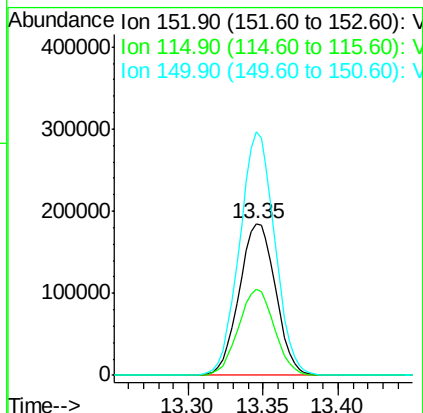
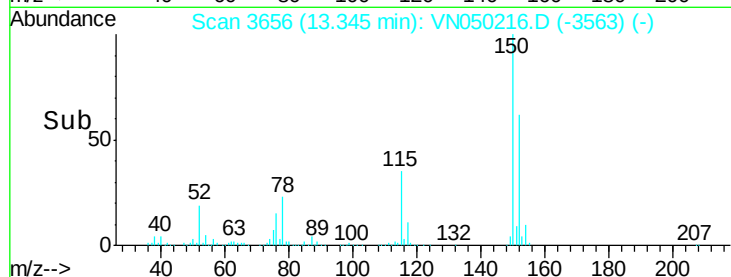
150 155.7 0.0 348.6



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# 3366

Delta R.T. -0.09 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

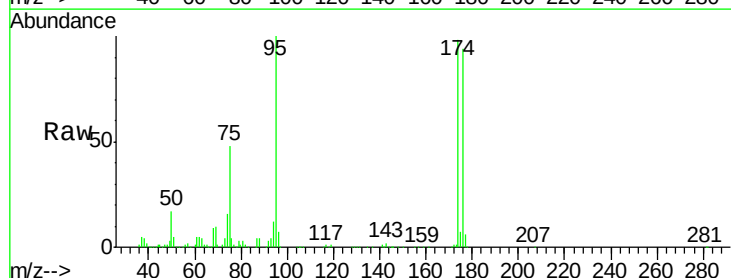
Tgt Ion: 83 Resp: 145

Ion Ratio Lower Upper

83 100

131 271.7 5.1 15.3#

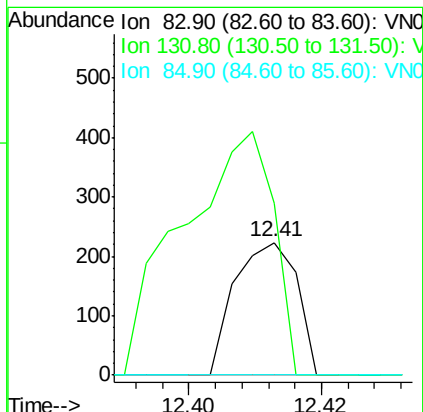
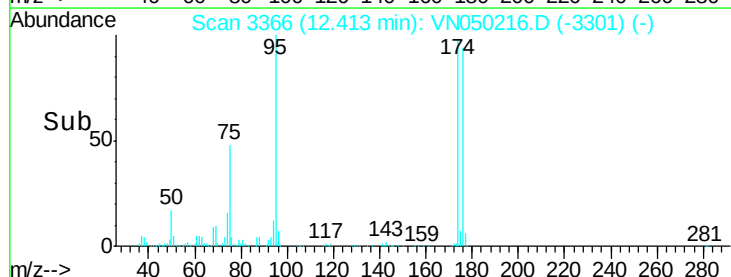
85 0.0 32.3 96.8#

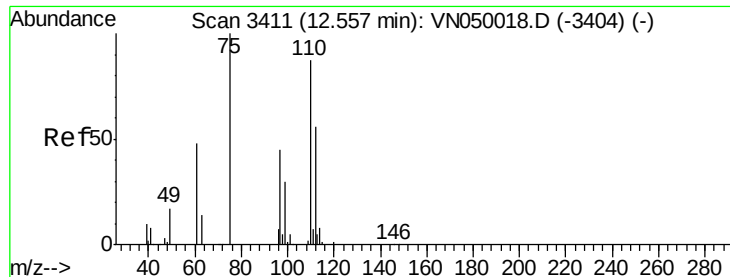


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 32.48 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

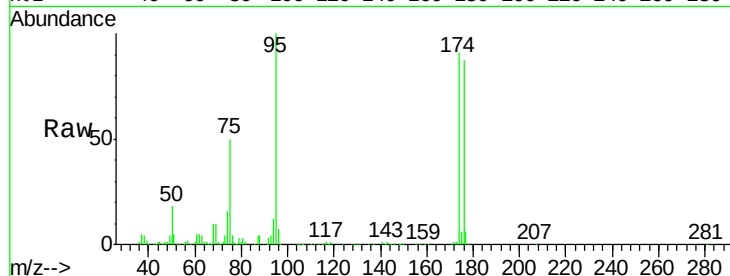
PB111613ZHE#04

Tot Ion: 75 Resp: 188888

Ion Ratio Lower Upper

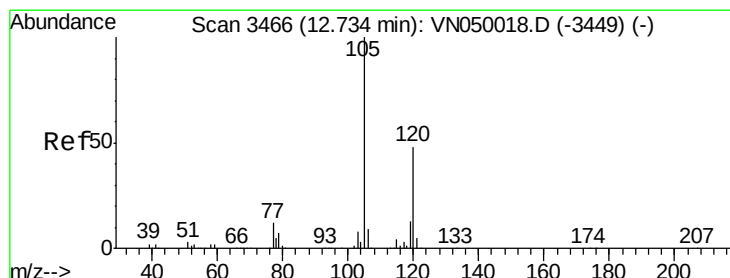
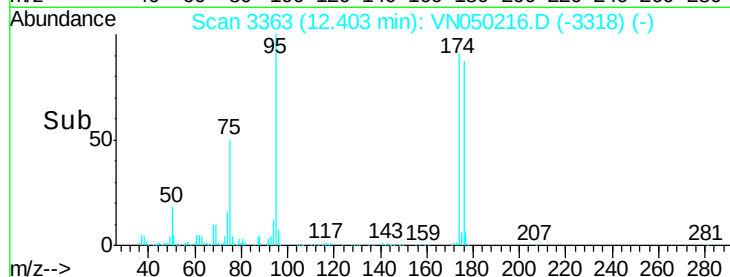
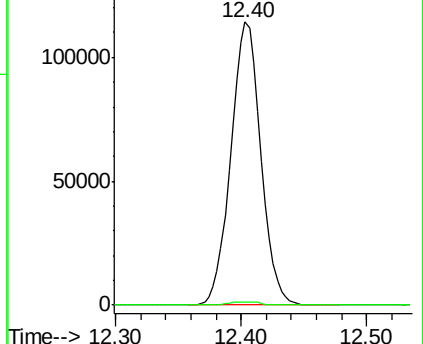
75 100

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



#80

1,3,5-Trimethylbenzene

Concen: 0.23 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN050216.D

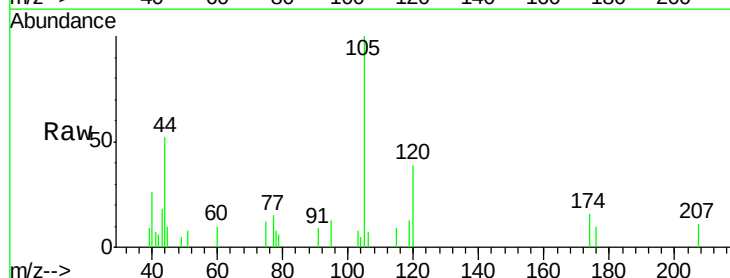
Acq: 31 Jul 2018 15:42

Tgt Ion: 105 Resp: 4305

Ion Ratio Lower Upper

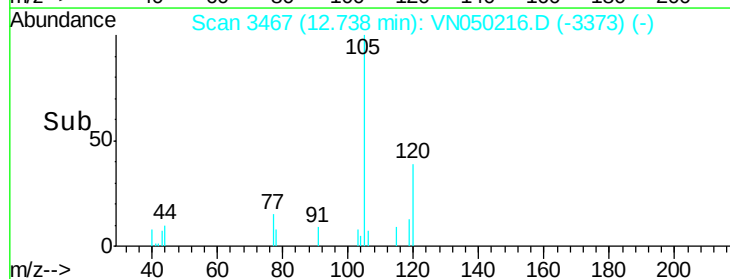
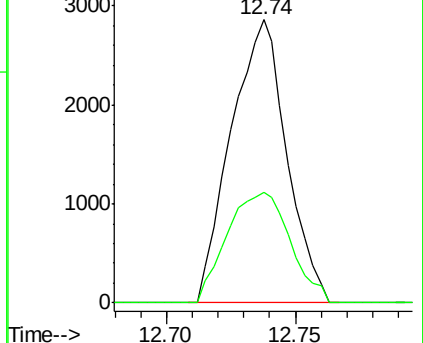
105 100

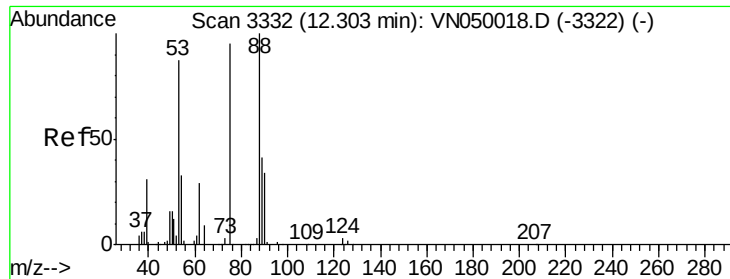
120 44.4 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 103.01 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#04

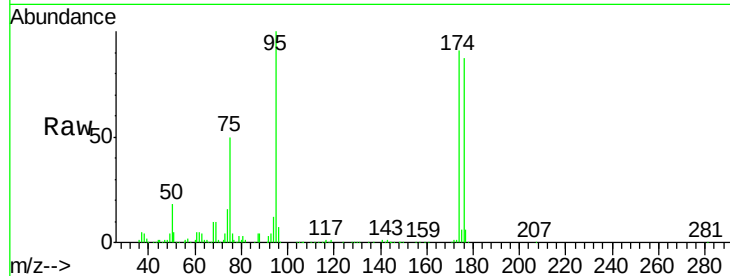
Tot Ion: 75 Resp: 188888

Ion Ratio Lower Upper

75 100

53 0.3 73.5 110.3#

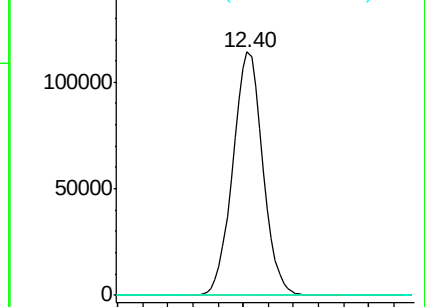
89 0.0 36.0 54.0#



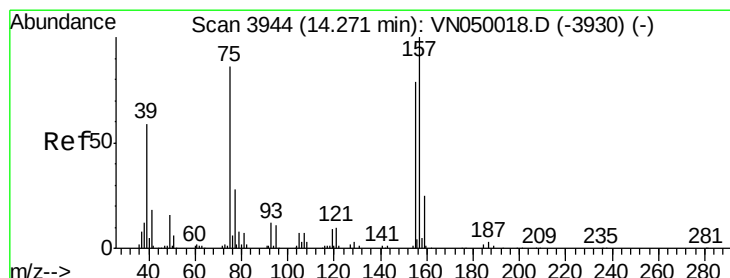
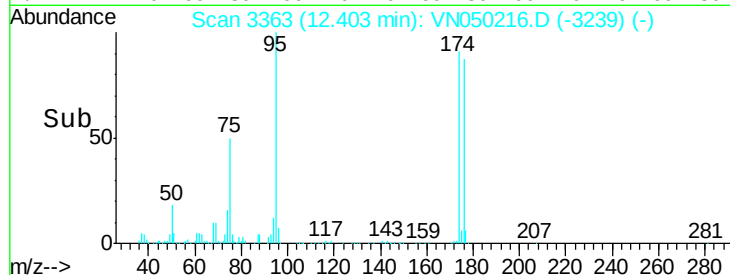
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

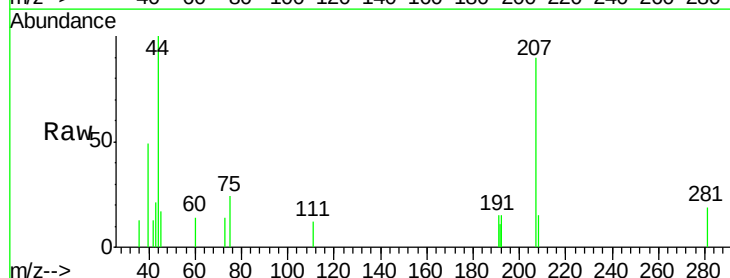
Tgt Ion: 75 Resp: 160

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

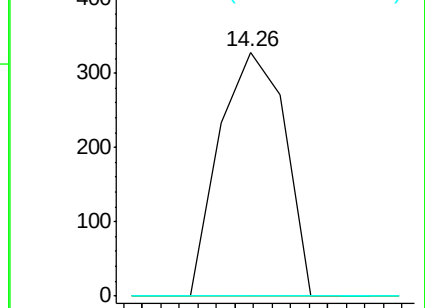
157 0.0 57.2 171.6#



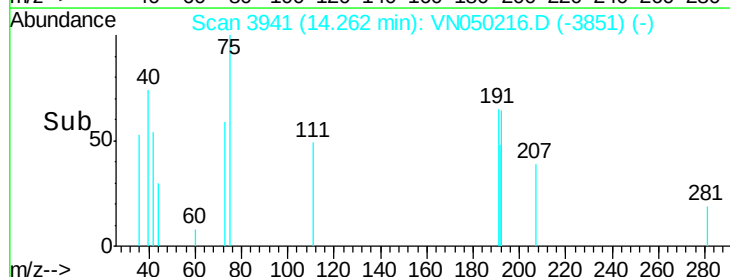
Abundance Ion 74.90 (74.60 to 75.60): VN0

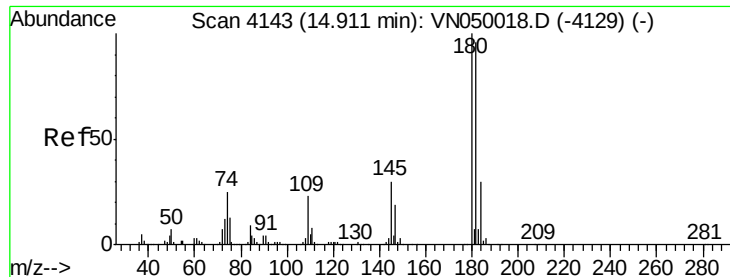
Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time--> 14.25 14.26 14.27





#93

1,2,4-Trichlorobenzene

Concen: 3.12 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.01 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#04

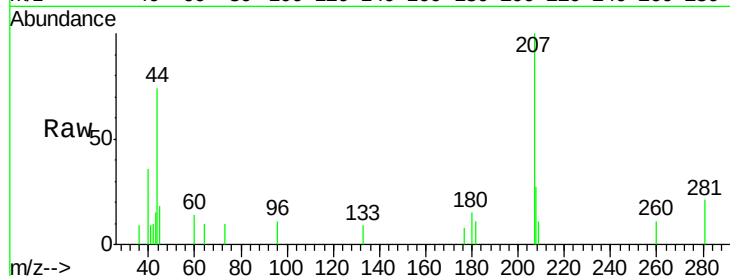
Tot Ion:180 Resp: 186

Ion Ratio Lower Upper

180 100

182 77.4 46.7 140.1

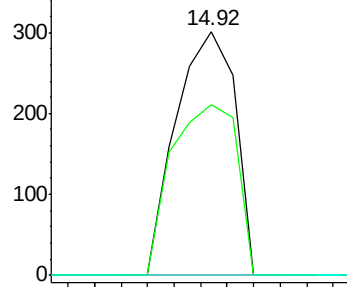
145 0.0 13.8 41.4#



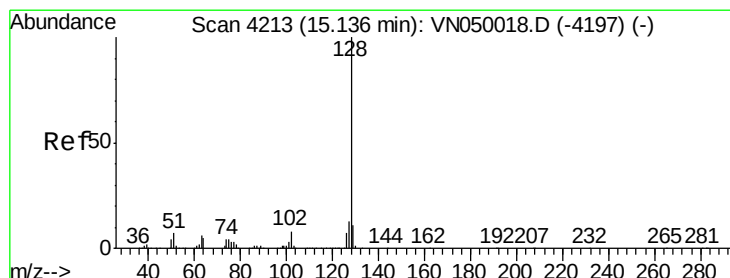
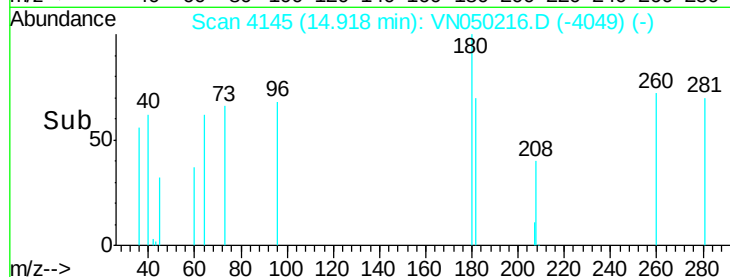
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->



#95

Naphthalene

Concen: 4.47 ug/l

RT: 15.15 min Scan# 4217

Delta R.T. 0.01 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

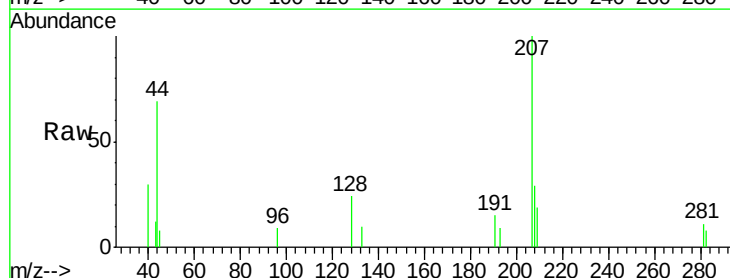
Tgt Ion:128 Resp: 796

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

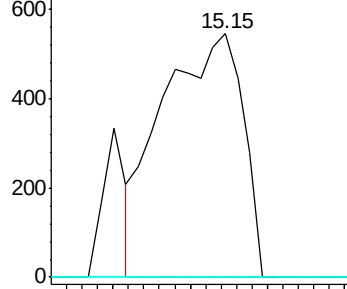
129 0.0 8.8 13.2#



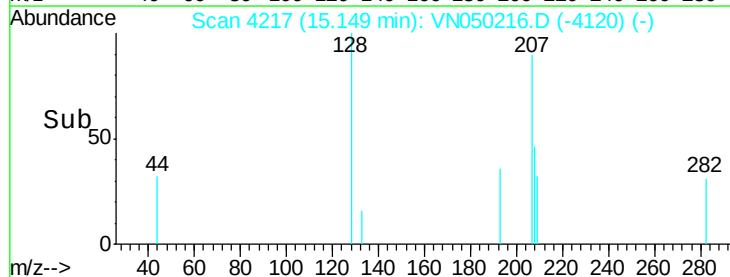
Abundance Ion 128.00 (127.70 to 128.70): V

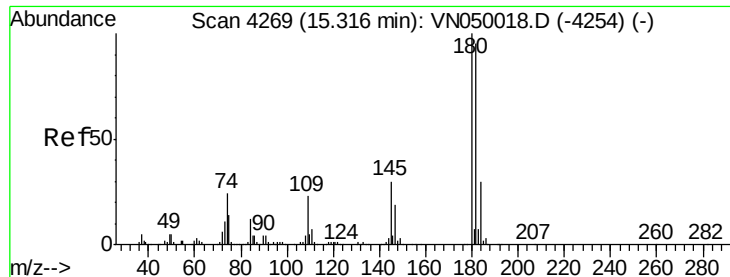
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->





#96

1,2,3-Trichlorobenzene

Concen: 2.22 ug/l

RT: 15.33 min Scan# 4272

Delta R.T. 0.01 min

Lab File: VN050216.D

Acq: 31 Jul 2018 15:42

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#04

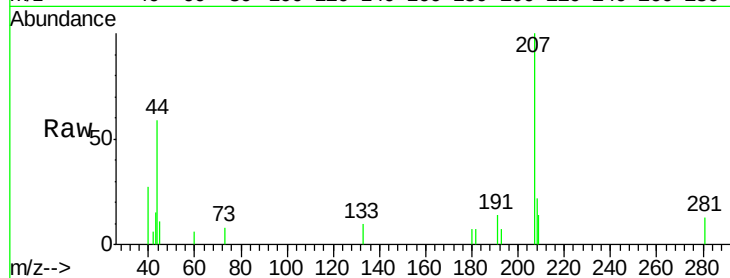
Tot Ion:180 Resp: 96

Ion Ratio Lower Upper

180 100

182 64.6 48.1 144.4

145 0.0 15.3 45.9#



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

