

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050061.D
 Acq On : 25 Jul 2018 23:04
 Operator : MD\SY
 Sample : PB111424ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111424ZHE#08

Quant Time: Jul 26 06:58:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 06:27:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	601445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1024910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	869180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	290688	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	439198	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
35) Dibromofluoromethane	7.59	113	390501	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	
50) Toluene-d8	10.09	98	1390452	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	
62) 4-Bromofluorobenzene	12.40	95	366993	36.23	ug/l	0.00
Spiked Amount			Recovery	=	72.46%	

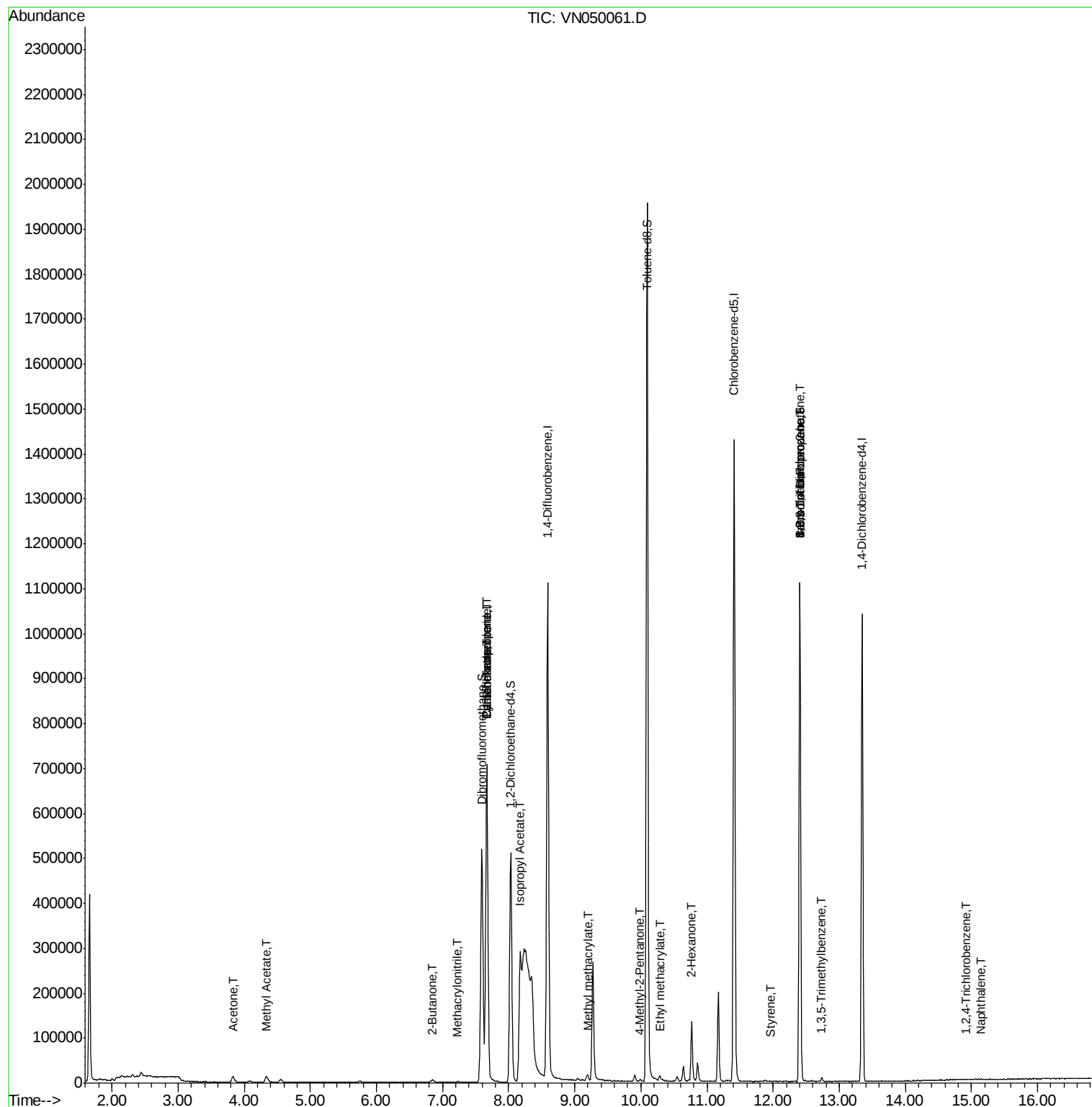
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	66	Below Cal	#	3
16) Acetone	3.82	43	22472	7.15	ug/l	99
18) Methyl Acetate	4.33	43	25269	1.71	ug/l	100
20) Methylene Chloride	4.56	84	4476	Below Cal		87
25) 2-Butanone	6.86	43	4938	1.54	ug/l	90
31) Cyclohexane	7.67	56	11307	0.91	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42626	3.69	ug/l #	48
38) Carbon Tetrachloride	7.67	117	53986	4.41	ug/l #	16
41) Methacrylonitrile	7.22	41	559	2.87	ug/l #	29
43) Isopropyl Acetate	8.17	43	354657	22.76	ug/l #	88
48) Methyl methacrylate	9.18	41	8130	1.17	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	2731	0.35	ug/l	94
56) Ethyl methacrylate	10.29	69	157	2.04	ug/l #	1
59) 2-Hexanone	10.77	43	18157	8.23	ug/l #	61
70) Styrene	11.96	104	248	0.93	ug/l #	62
71) Bromoform	12.40	173	3563	0.58	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.53	83	60	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	181353	33.57	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3887	0.22	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	181353	106.48	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	65	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	30	3.09	ug/l #	80
95) Naphthalene	15.14	128	567	4.45	ug/l #	69

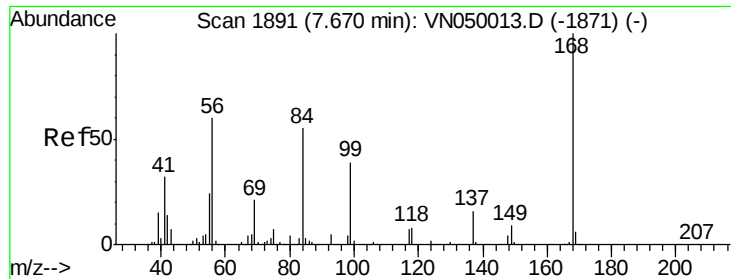
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 24 06:27:04 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

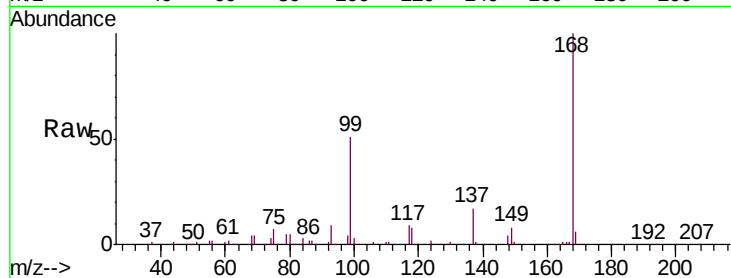
PB111424ZHE#08

Tot Ion:168 Resp: 601445

Ion Ratio Lower Upper

168 100

99 51.4 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

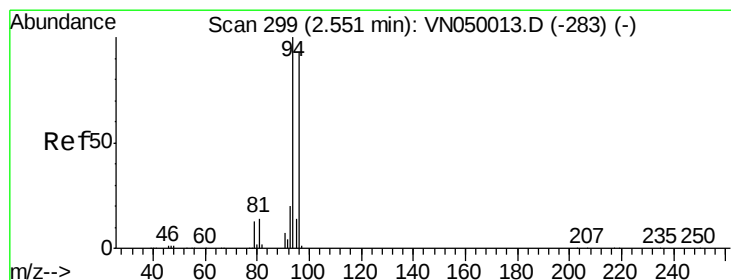
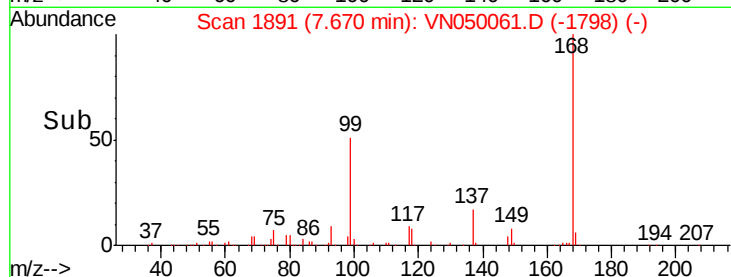
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 296

Delta R.T. -0.01 min

Lab File: VN050061.D

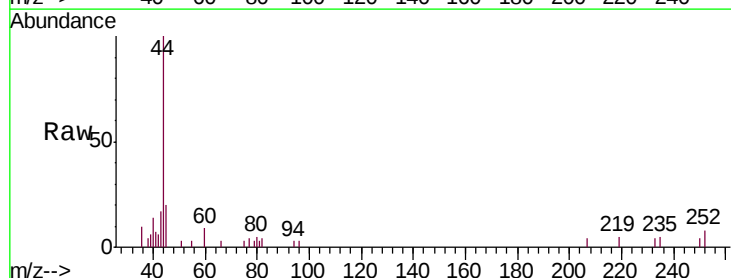
Acq: 25 Jul 2018 23:04

Tgt Ion: 94 Resp: 66

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

300

250

200

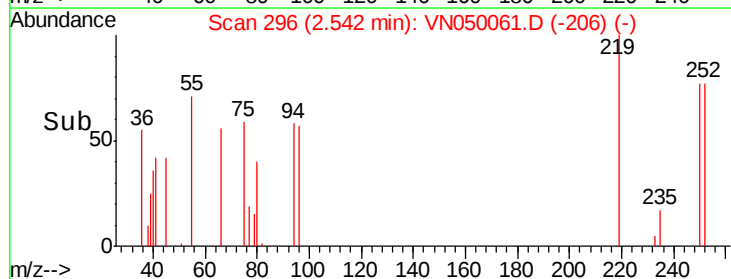
150

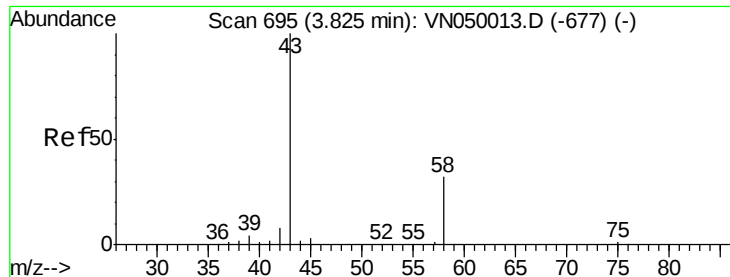
100

50

0

Time-->





#16

Acetone

Concen: 7.15 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

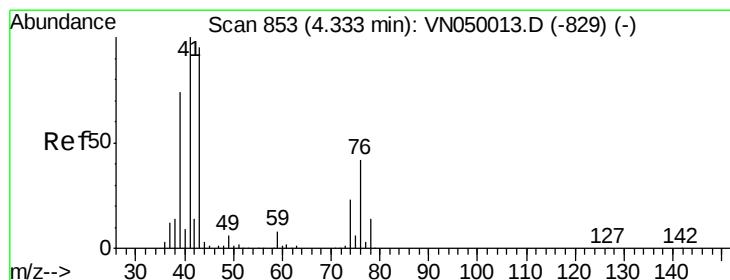
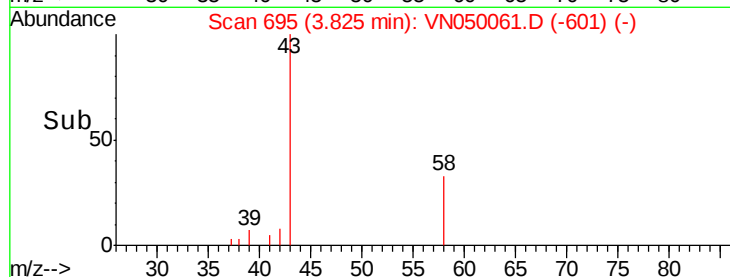
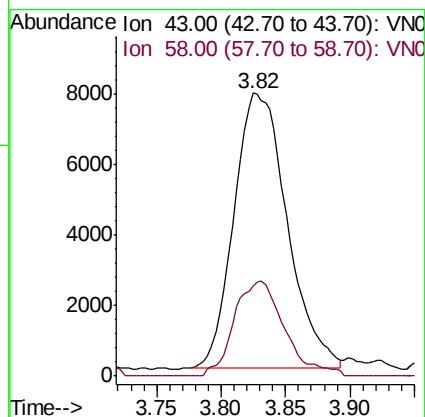
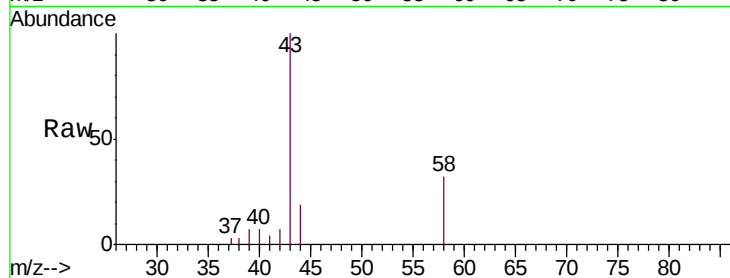
PB111424ZHE#08

Tot Ion: 43 Resp: 22472

Ion Ratio Lower Upper

43 100

58 32.7 25.8 38.8



#18

Methyl Acetate

Concen: 1.71 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050061.D

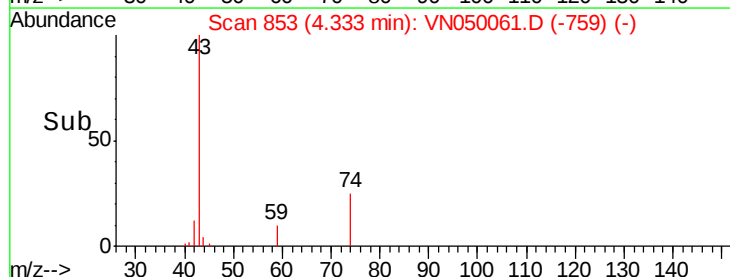
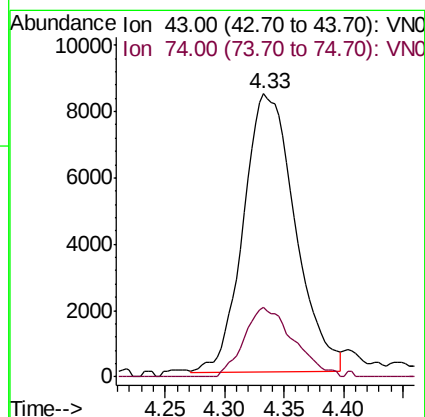
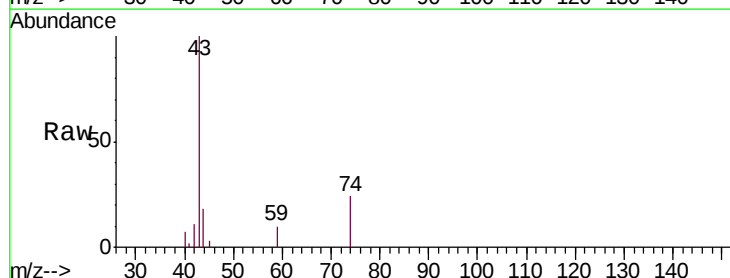
Acq: 25 Jul 2018 23:04

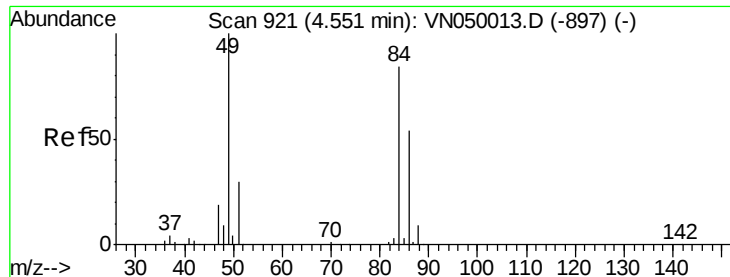
Tgt Ion: 43 Resp: 25269

Ion Ratio Lower Upper

43 100

74 23.8 19.2 28.8

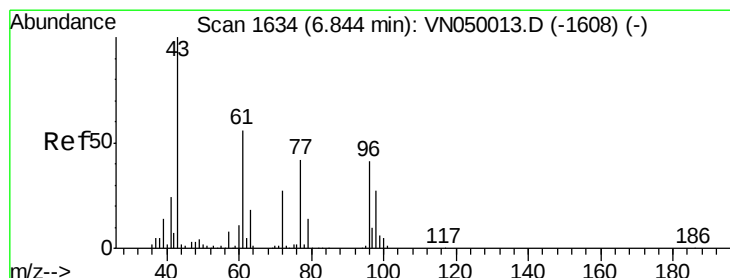
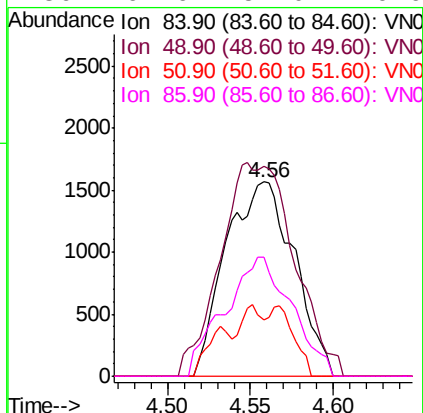
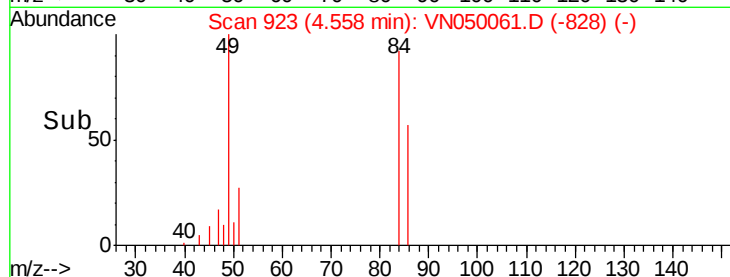
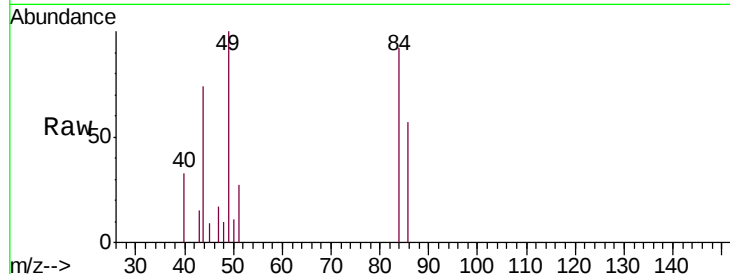




#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050061.D
Acq: 25 Jul 2018 23:04

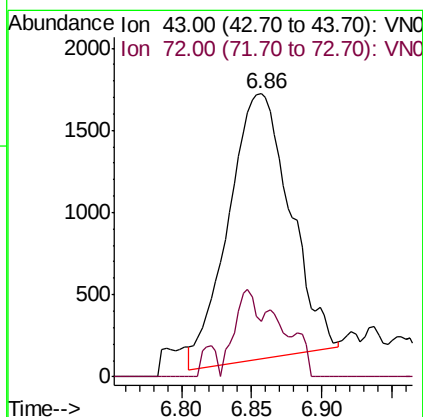
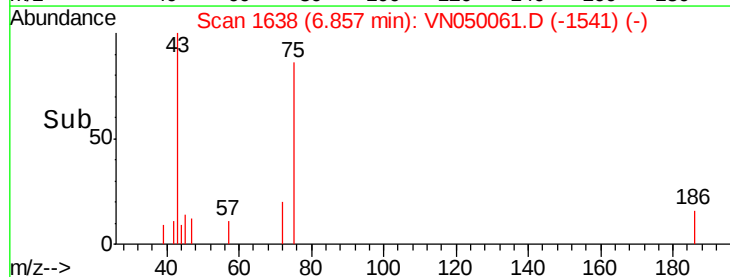
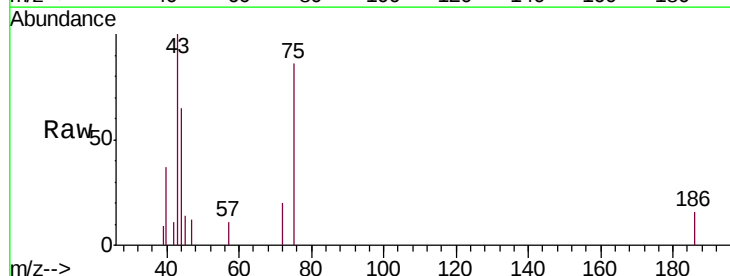
Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#08

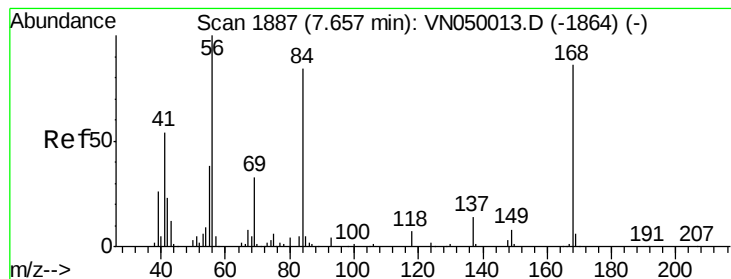
Tot Ion:	84	Resp:	4476
Ion	Ratio	Lower	Upper
84	100		
49	97.8	94.8	142.2
51	28.8	28.3	42.5
86	61.6	51.0	76.6



#25
2-Butanone
Concen: 1.54 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VN050061.D
Acq: 25 Jul 2018 23:04

Tgt Ion:	43	Resp:	4938
Ion	Ratio	Lower	Upper
43	100		
72	21.9	21.5	32.3





#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#08

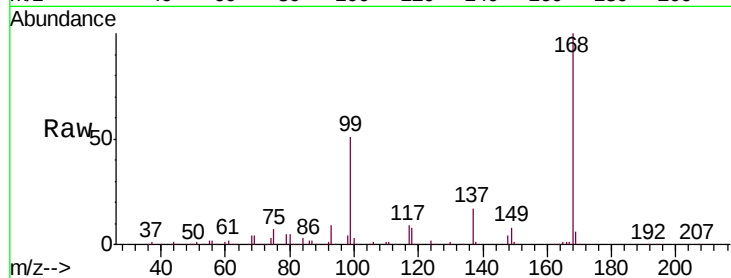
Tot Ion: 56 Resp: 11307

Ion Ratio Lower Upper

56 100

69 186.3 26.2 39.4#

84 139.4 67.4 101.0#

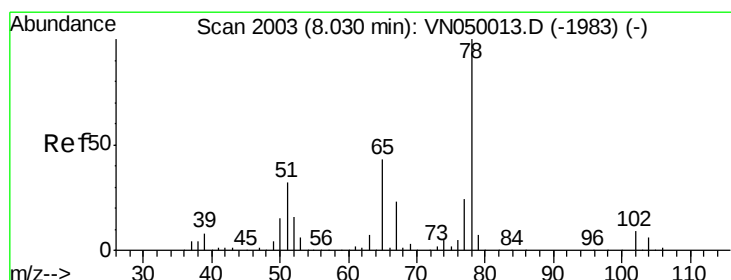
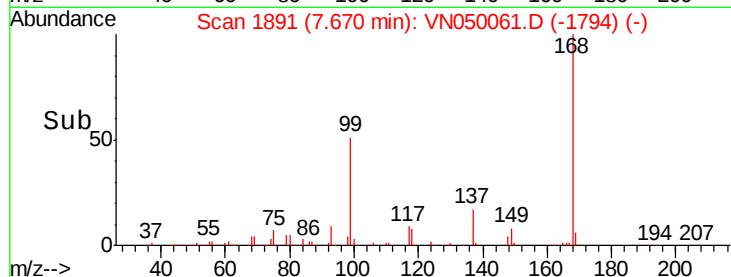
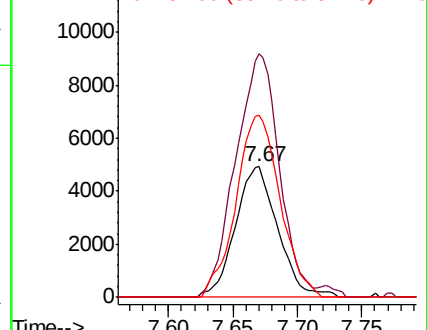


Abundance

Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: 52.34 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050061.D

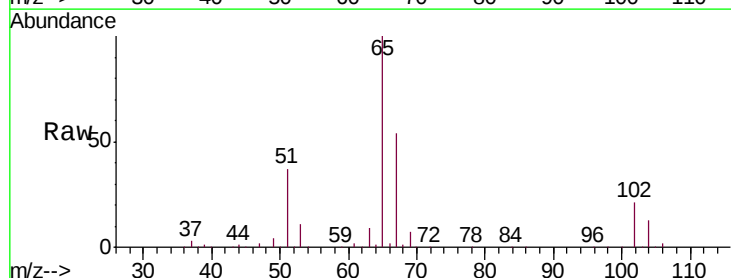
Acq: 25 Jul 2018 23:04

Tgt Ion: 65 Resp: 439198

Ion Ratio Lower Upper

65 100

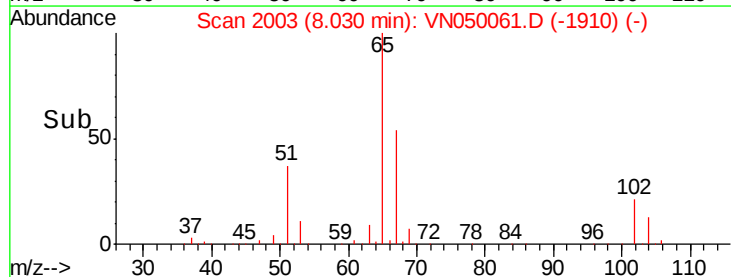
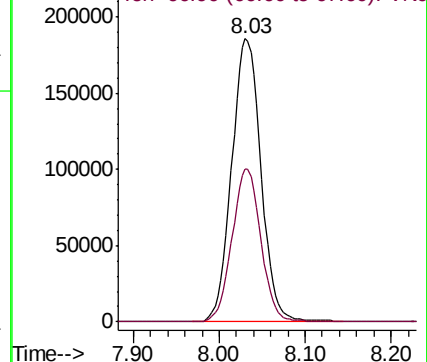
67 53.1 0.0 108.4

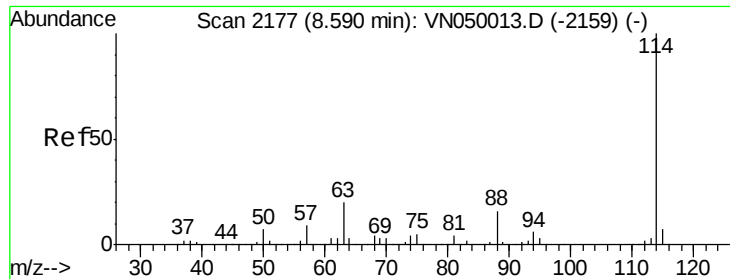


Abundance

Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

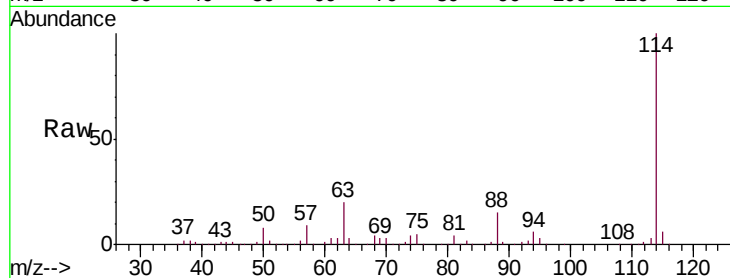




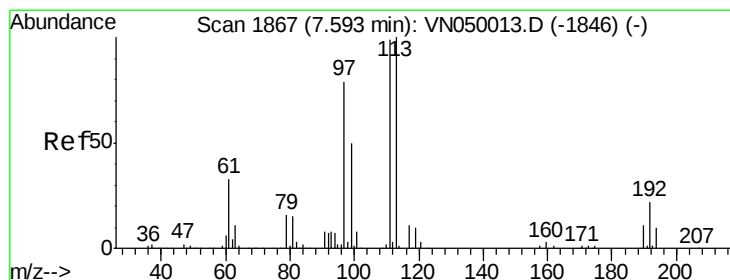
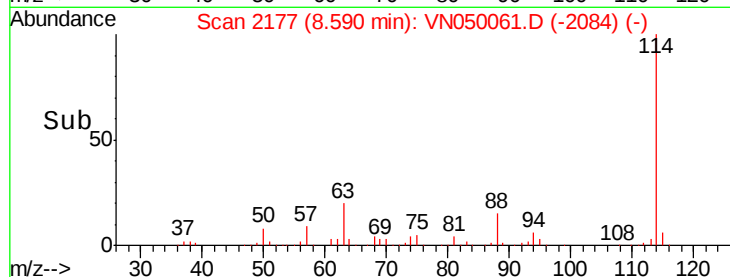
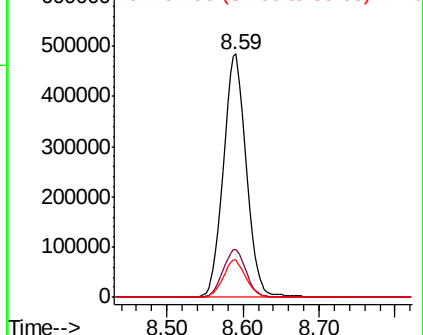
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050061.D
 Acq: 25 Jul 2018 23:04

Instrument :
 MSVOA_N
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 PB111424ZHE#08

Tot Ion:114 Resp: 1024910
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.3 0.0 31.2

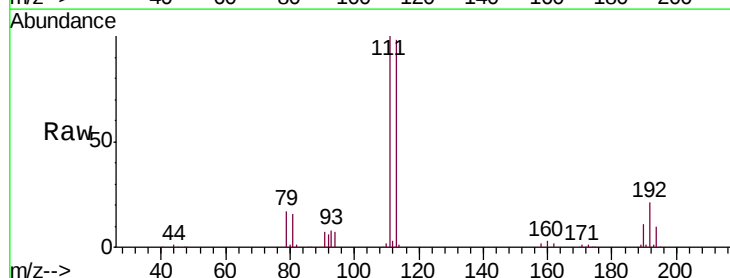


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

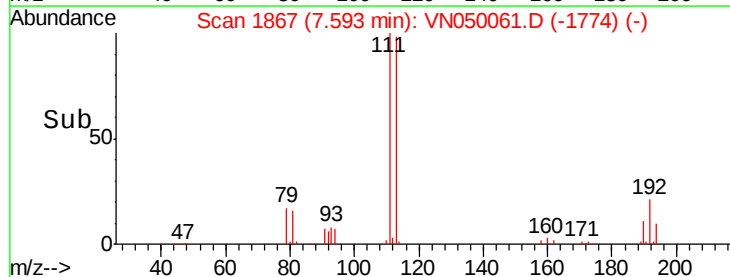
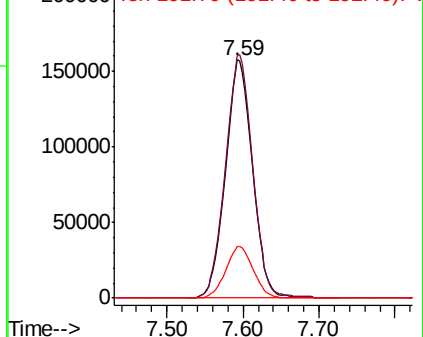


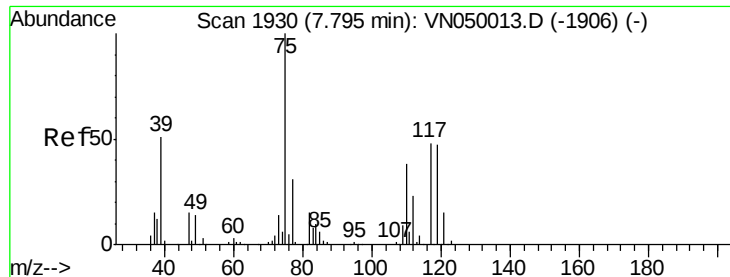
#35
 Dibromofluoromethane
 Concen: 46.67 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050061.D
 Acq: 25 Jul 2018 23:04

Tgt Ion:113 Resp: 390501
 Ion Ratio Lower Upper
 113 100
 111 102.9 80.7 121.1
 192 22.0 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: 3.69 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#08

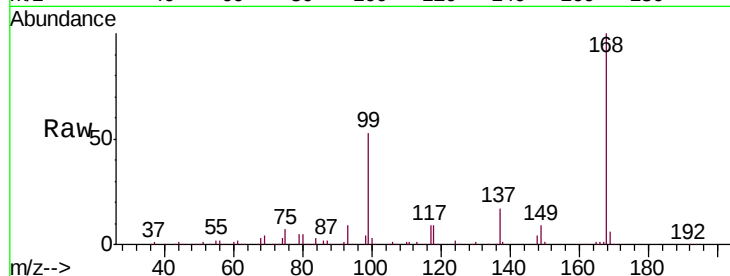
Tot Ion: 75 Resp: 42626

Ion Ratio Lower Upper

75 100

110 8.8 18.4 55.2#

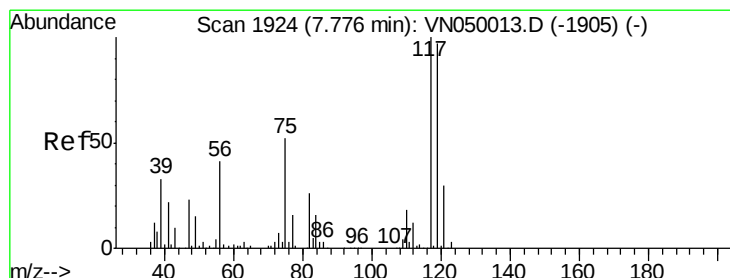
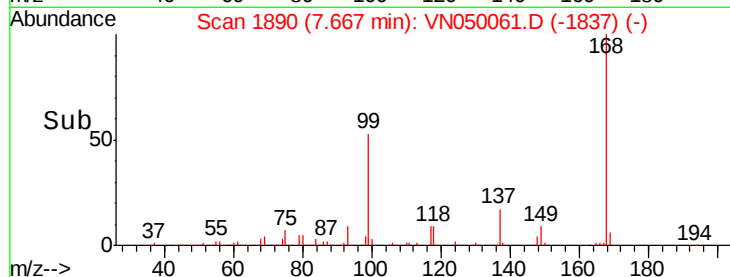
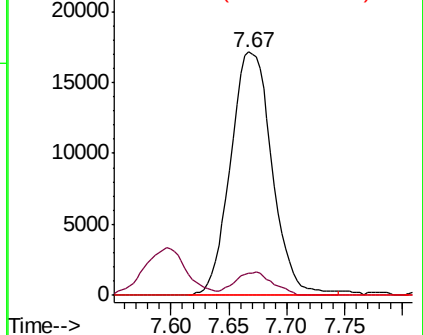
77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VN050013.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050013.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050013.D (-1906) (-)



#38

Carbon Tetrachloride

Concen: 4.41 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

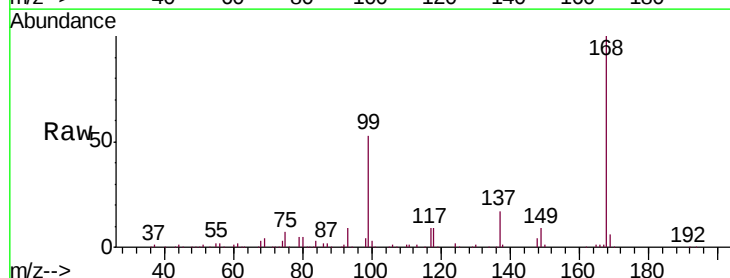
Tgt Ion: 117 Resp: 53986

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.0#

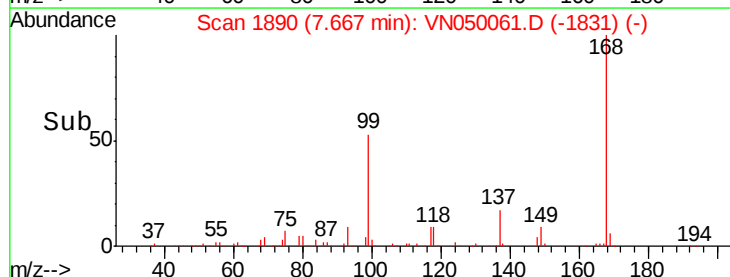
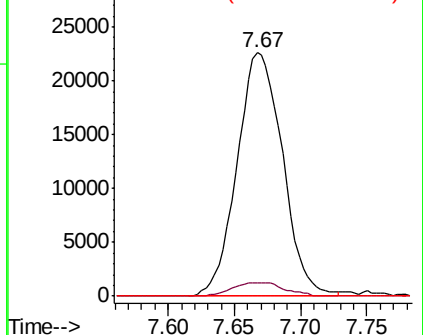
121 0.0 23.9 35.9#

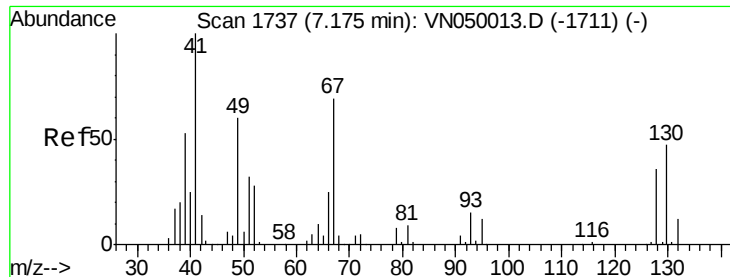


Abundance Ion 116.80 (116.50 to 117.50): VN050013.D (-1905) (-)

Ion 118.80 (118.50 to 119.50): VN050013.D (-1905) (-)

Ion 120.80 (120.50 to 121.50): VN050013.D (-1905) (-)

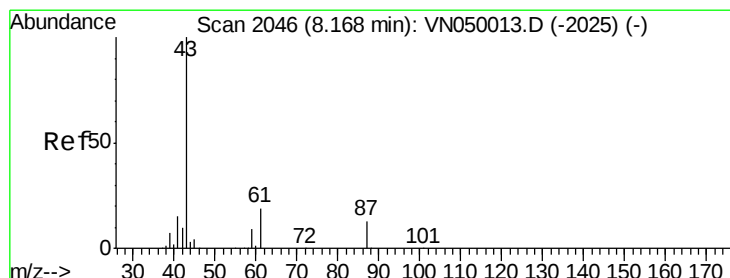
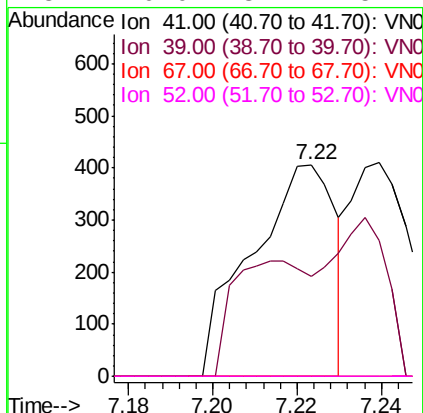
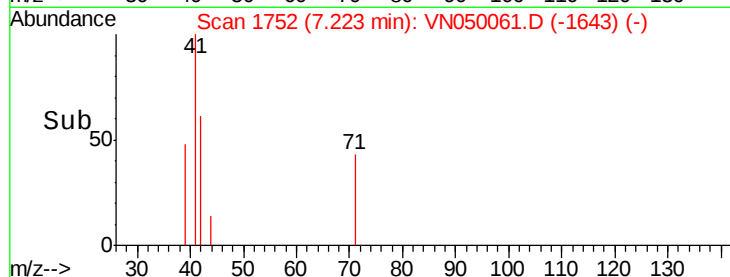
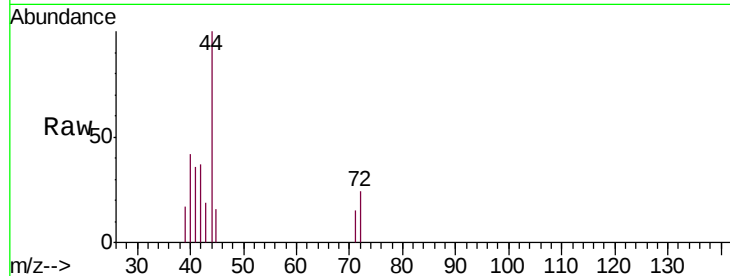




#41
Methacrylonitrile
Concen: 2.87 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.05 min
Lab File: VN050061.D
Acq: 25 Jul 2018 23:04

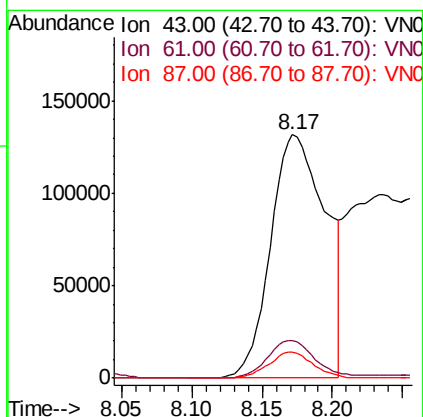
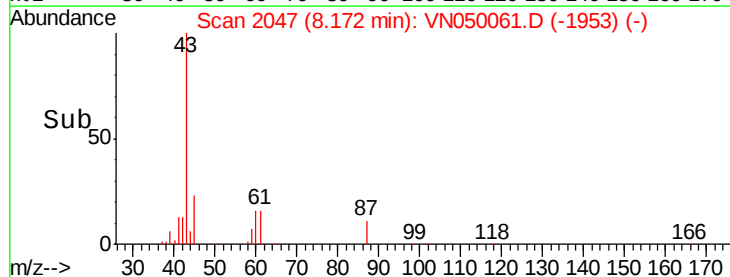
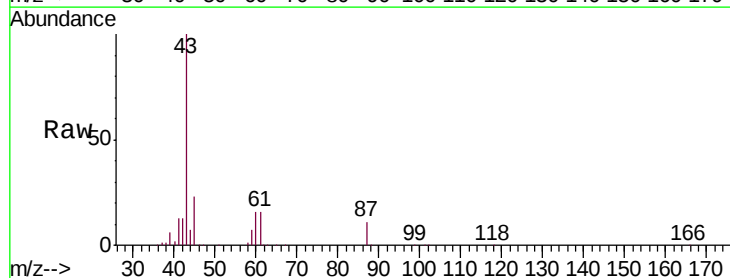
Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#08

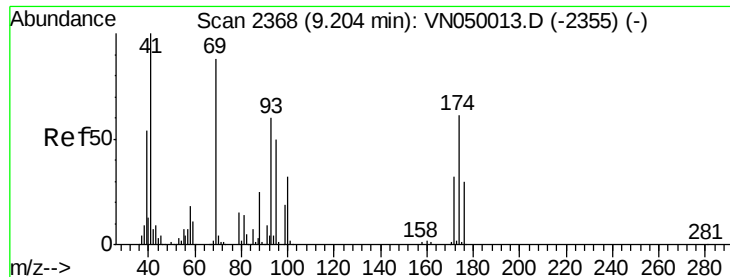
Tot Ion: 41 Resp: 559
Ion Ratio Lower Upper
41 100
39 49.4 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 22.76 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN050061.D
Acq: 25 Jul 2018 23:04

Tgt Ion: 43 Resp: 354657
Ion Ratio Lower Upper
43 100
61 13.5 15.8 23.6#
87 8.7 10.3 15.5#

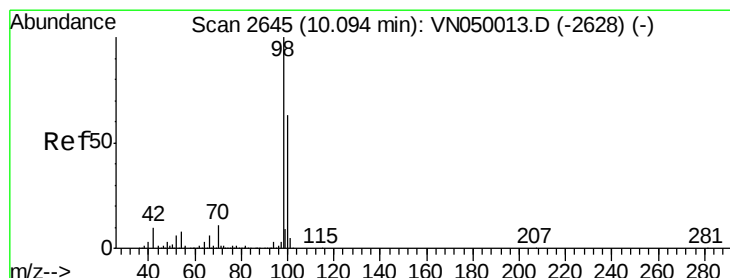
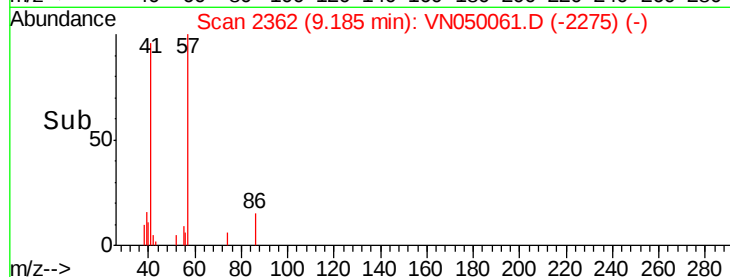
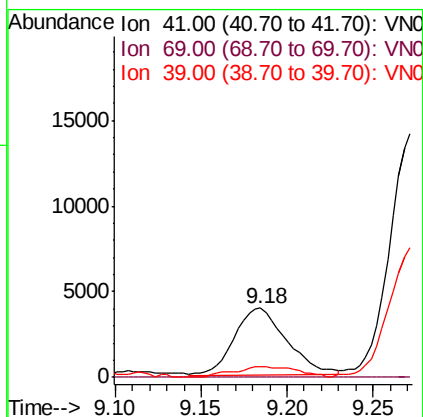
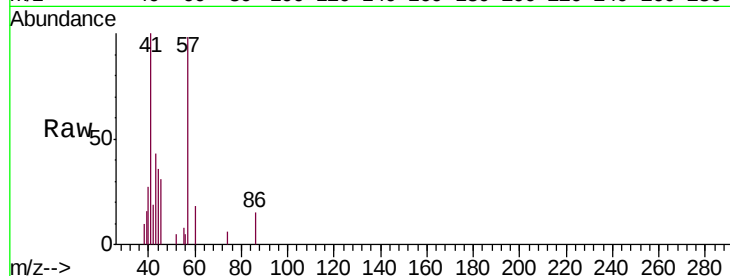




#48
Methvl methacrylate
Concen: 1.17 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050061.D
Acq: 25 Jul 2018 23:04

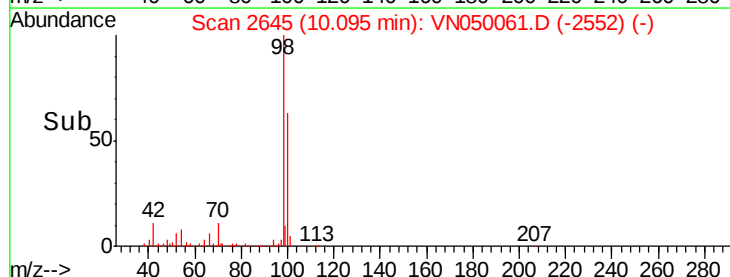
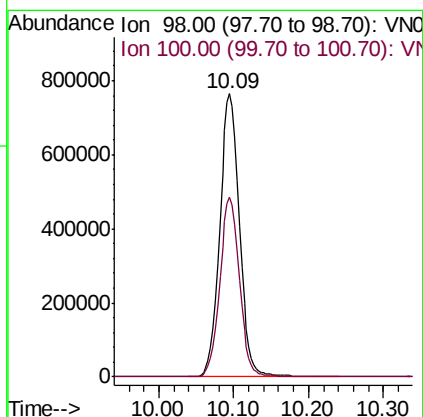
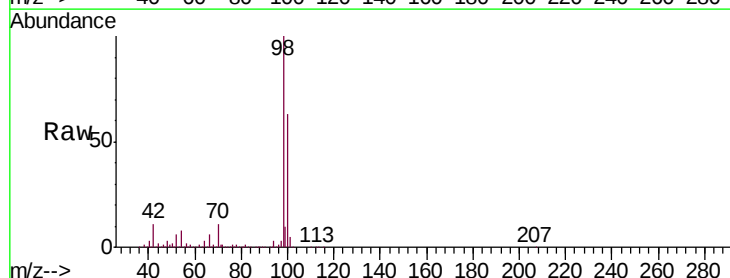
Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#08

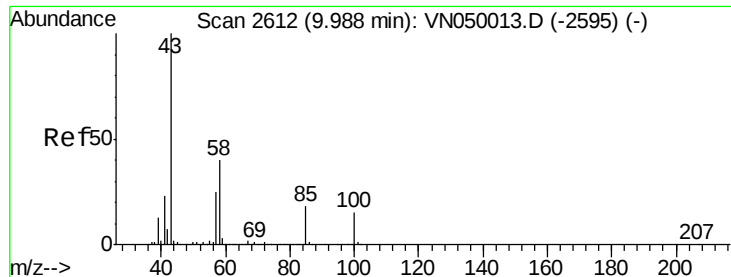
Tot Ion: 41 Resp: 8130
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 20.3 43.9 65.9#



#50
Toluene-d8
Concen: 45.20 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050061.D
Acq: 25 Jul 2018 23:04

Tgt Ion: 98 Resp: 1390452
Ion Ratio Lower Upper
98 100
100 63.2 50.7 76.1

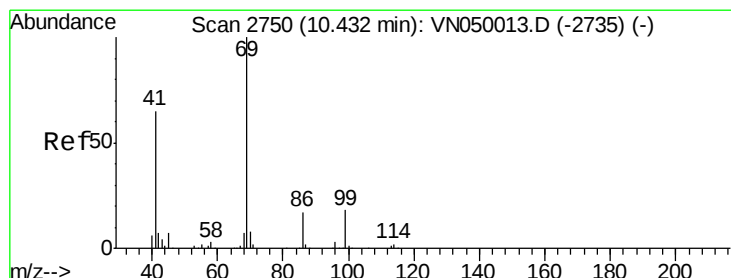
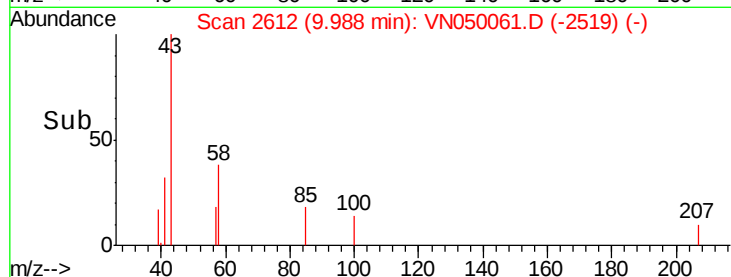
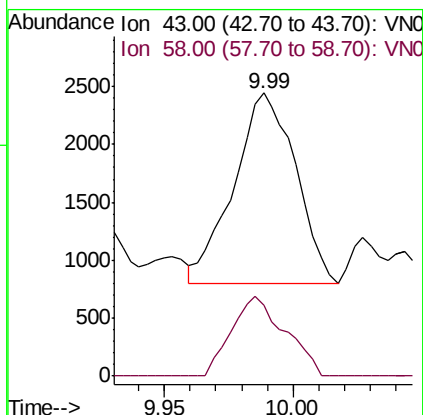
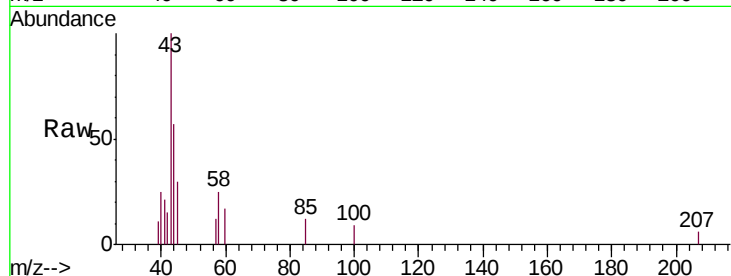




#51
 4-Methyl-2-Pentanone
 Concen: 0.35 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050061.D
 Acq: 25 Jul 2018 23:04

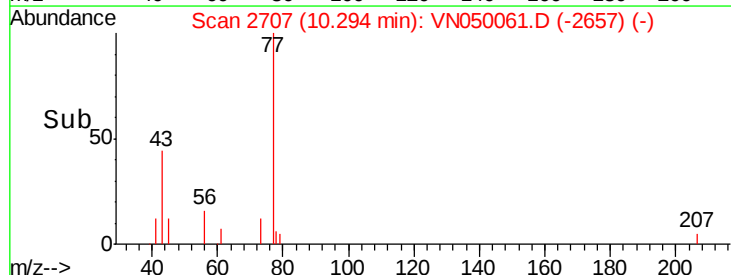
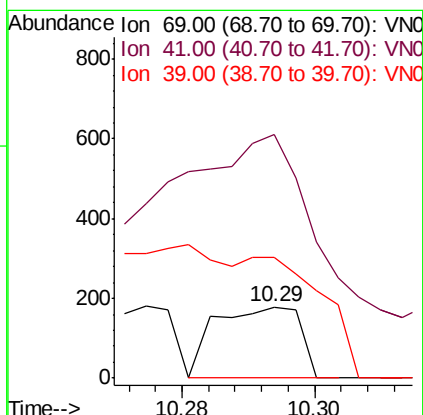
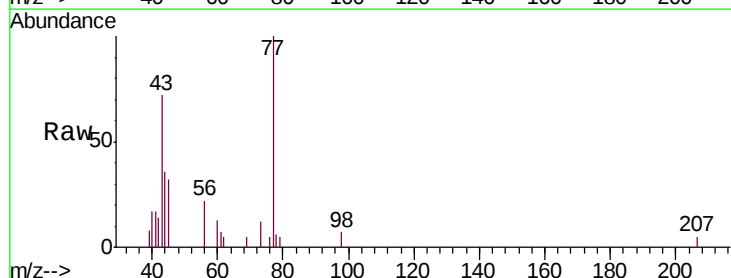
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111424ZHE#08

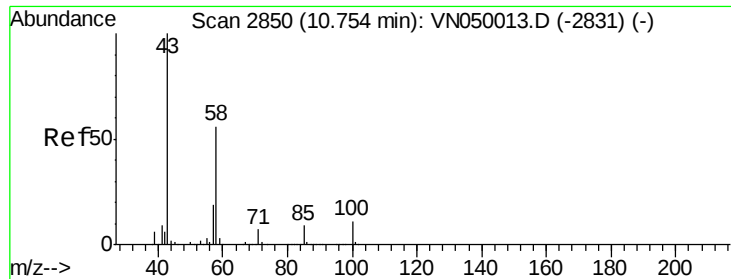
Tot Ion: 43 Resp: 2731
 Ion Ratio Lower Upper
 43 100
 58 36.5 31.9 47.9



#56
 Ethyl methacrylate
 Concen: 2.04 ug/l
 RT: 10.29 min Scan# 2707
 Delta R.T. -0.14 min
 Lab File: VN050061.D
 Acq: 25 Jul 2018 23:04

Tgt Ion: 69 Resp: 157
 Ion Ratio Lower Upper
 69 100
 41 476.4 51.0 76.4#
 39 143.9 26.6 40.0#





#59

2-Hexanone

Concen: 8.23 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

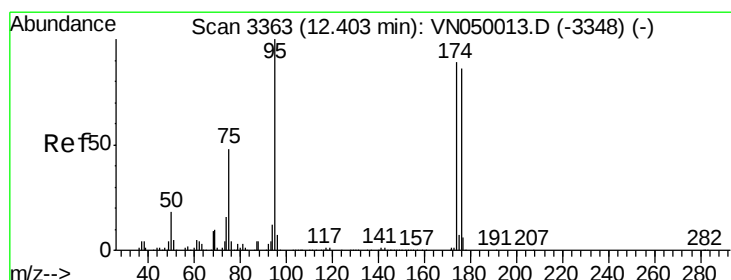
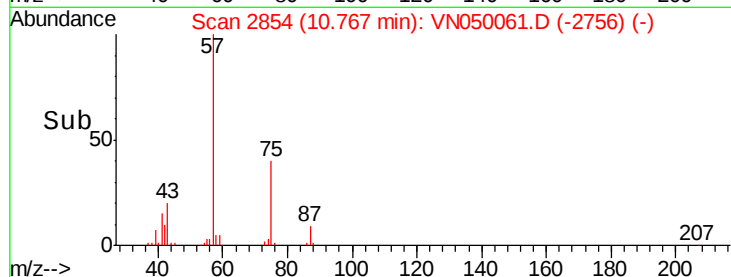
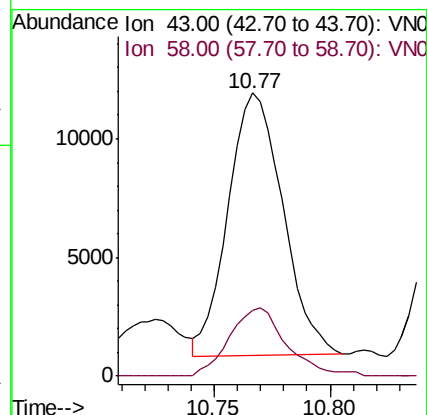
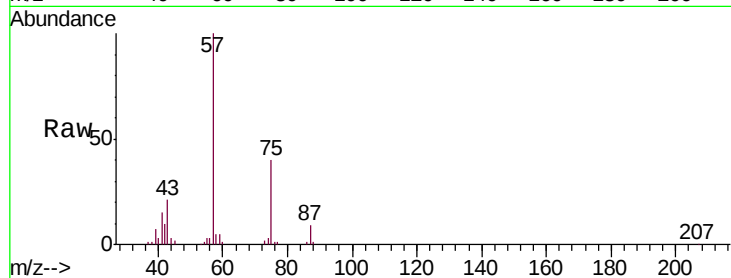
PB111424ZHE#08

Tot Ion: 43 Resp: 18157

Ion Ratio Lower Upper

43 100

58 27.1 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 36.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

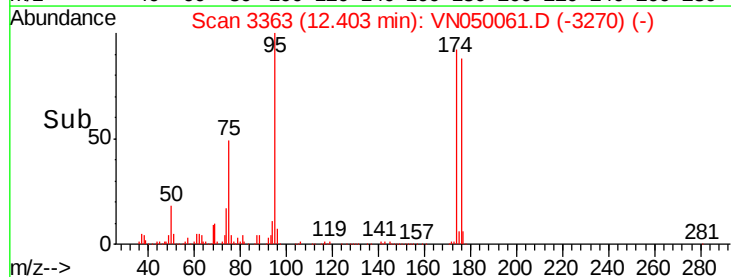
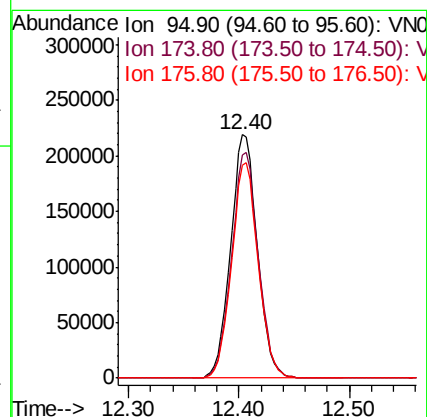
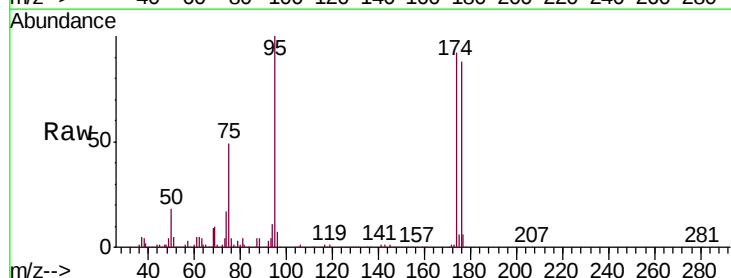
Tgt Ion: 95 Resp: 366993

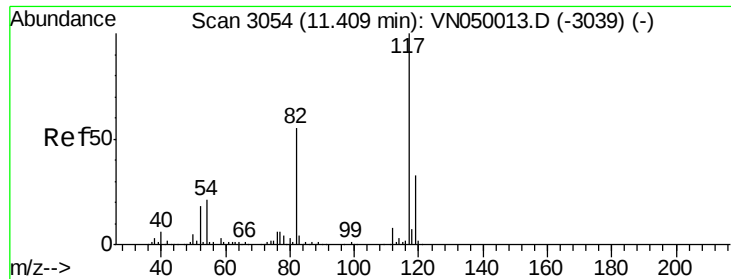
Ion Ratio Lower Upper

95 100

174 92.9 0.0 178.2

176 88.3 0.0 173.4

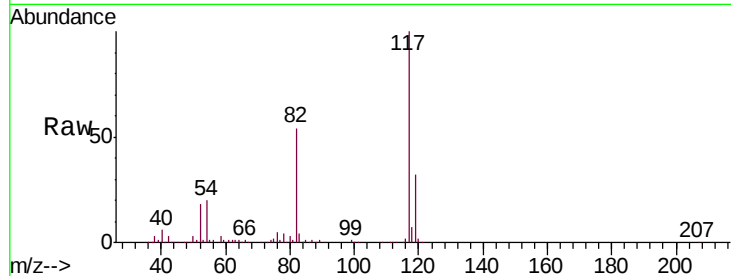




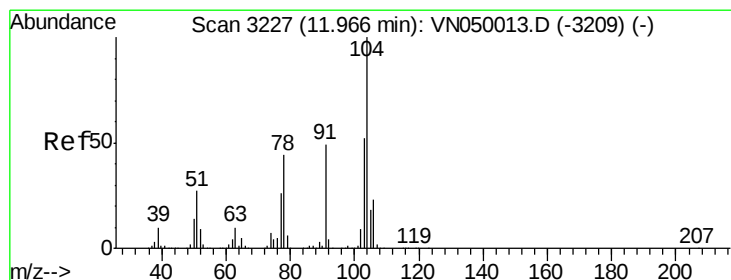
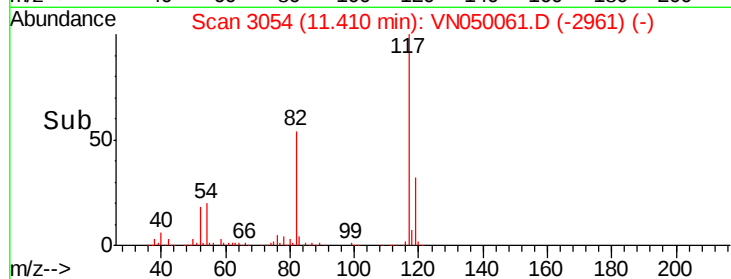
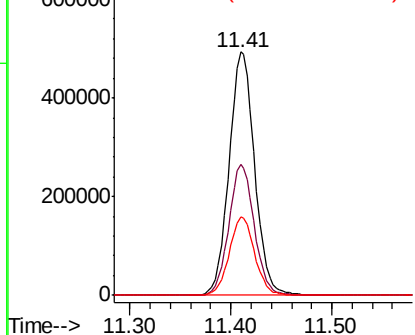
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050061.D
Acq: 25 Jul 2018 23:04

Instrument :
MSVOA_N
ClientSampleId :
PB111424ZHE#08

Tot Ion:117 Resp: 869180
Ion Ratio Lower Upper
117 100
82 53.9 43.7 65.5
119 32.0 26.1 39.1

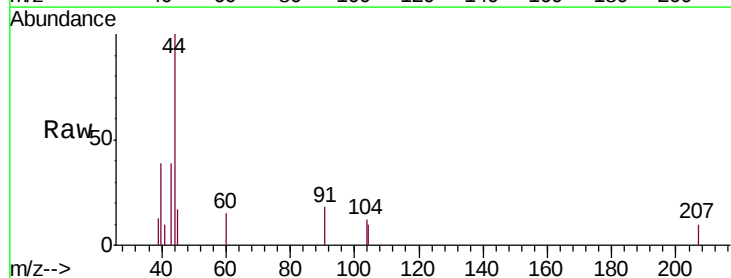


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

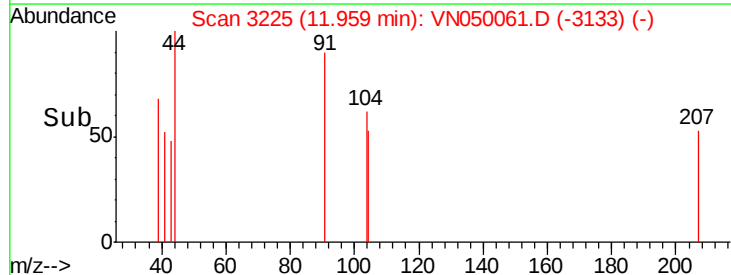
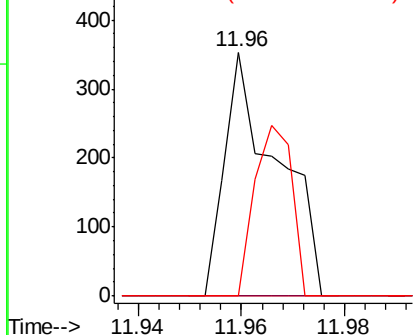


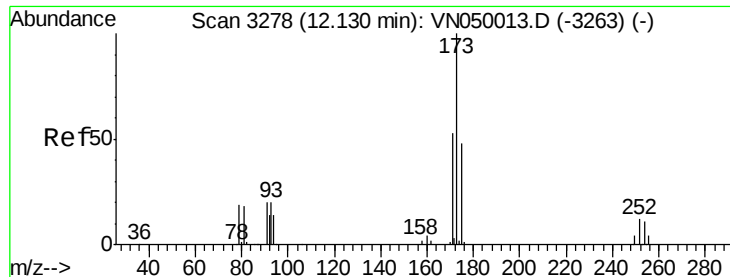
#70
Styrene
Concen: 0.93 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.01 min
Lab File: VN050061.D
Acq: 25 Jul 2018 23:04

Tgt Ion:104 Resp: 248
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 49.6 45.0 67.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.58 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#08

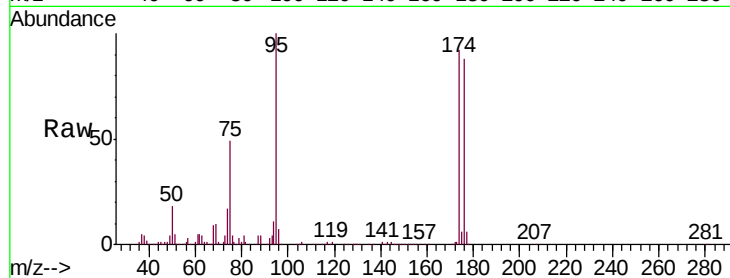
Tot Ion:173 Resp: 3563

Ion Ratio Lower Upper

173 100

175 586.4 24.1 72.2#

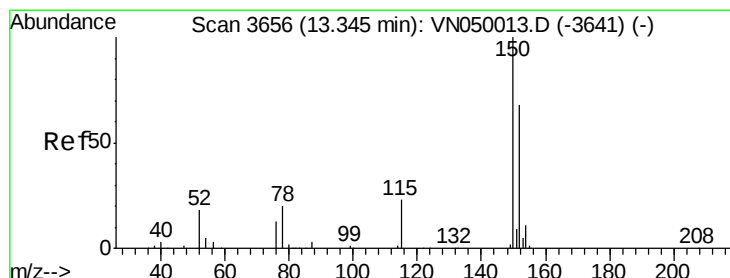
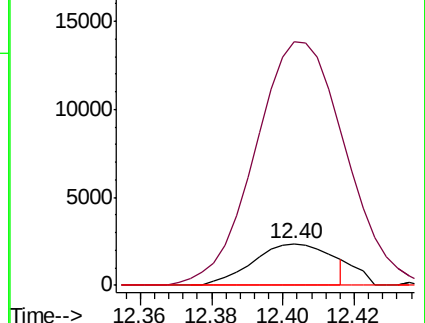
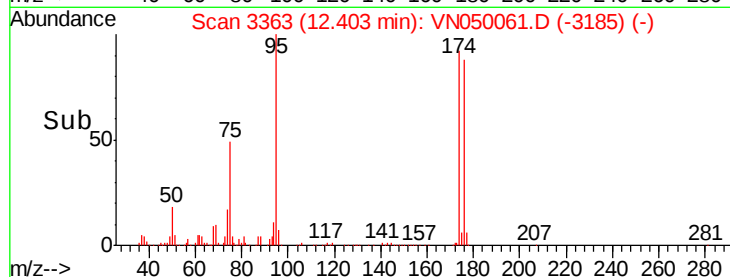
254 0.0 0.2 0.2#



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# 3657

Delta R.T. 0.00 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

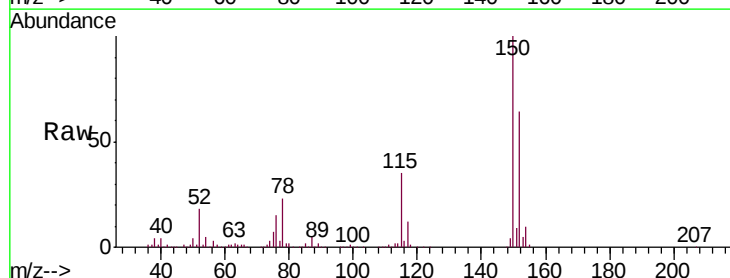
Tgt Ion:152 Resp: 290688

Ion Ratio Lower Upper

152 100

115 55.3 27.8 83.3

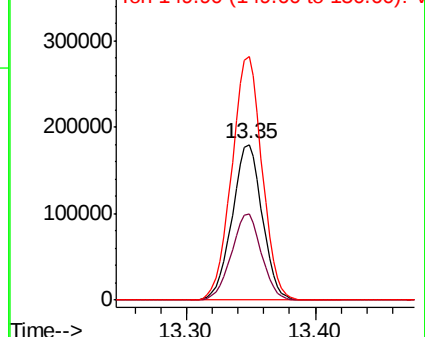
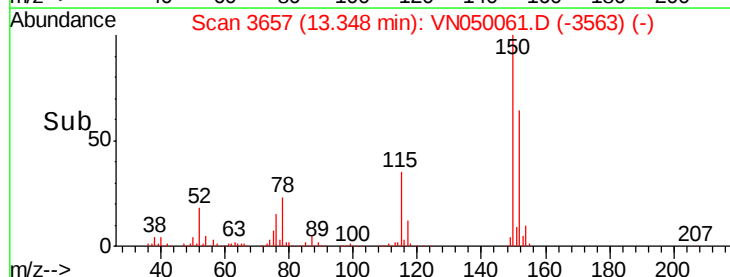
150 157.5 0.0 348.6

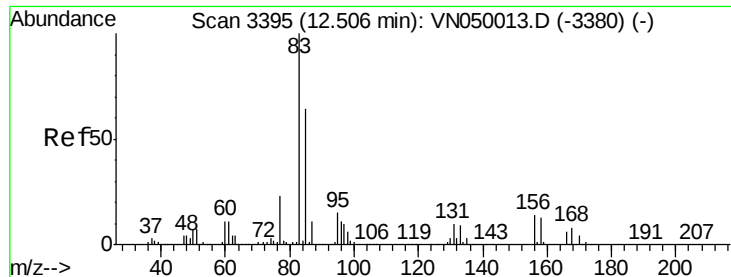


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.53 min Scan# 3401

Delta R.T. 0.02 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#08

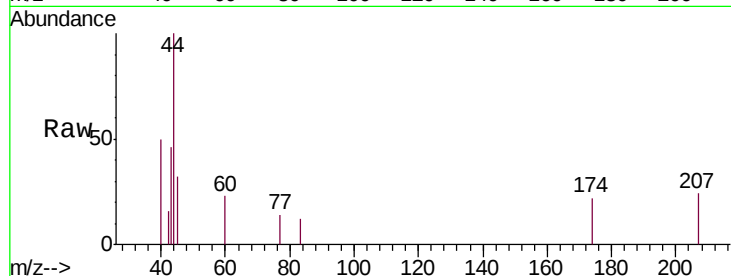
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

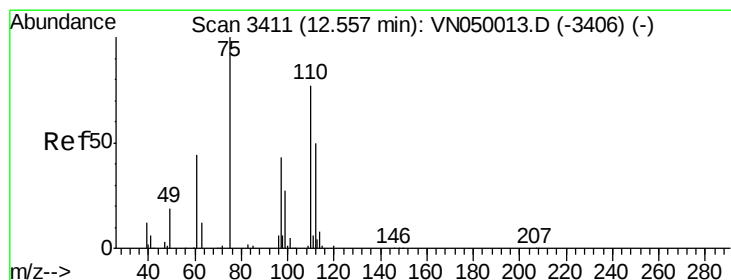
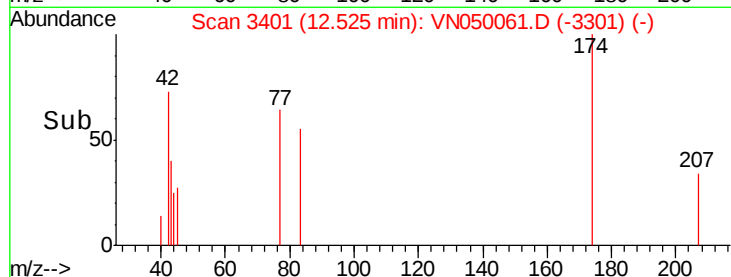
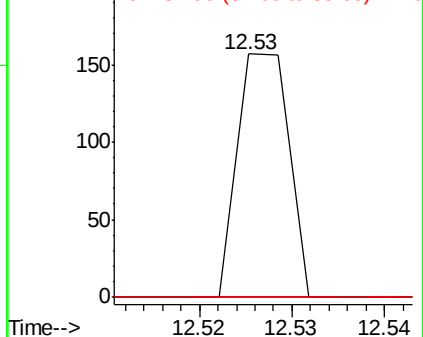
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 33.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050061.D

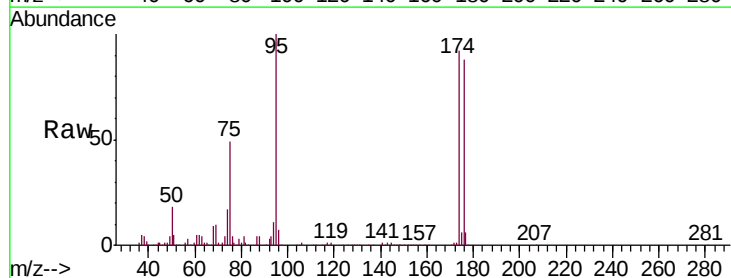
Acq: 25 Jul 2018 23:04

Tgt Ion: 75 Resp: 181353

Ion Ratio Lower Upper

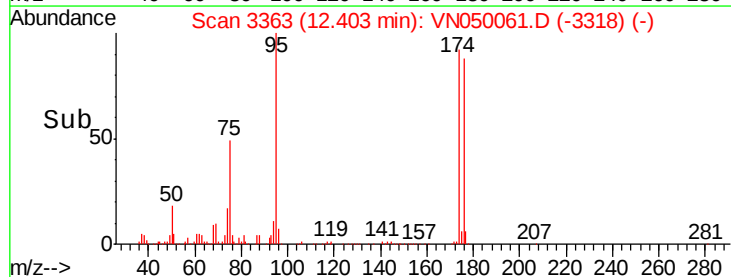
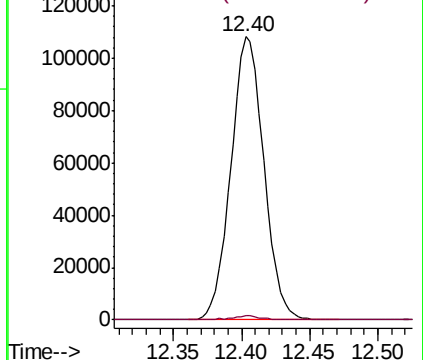
75 100

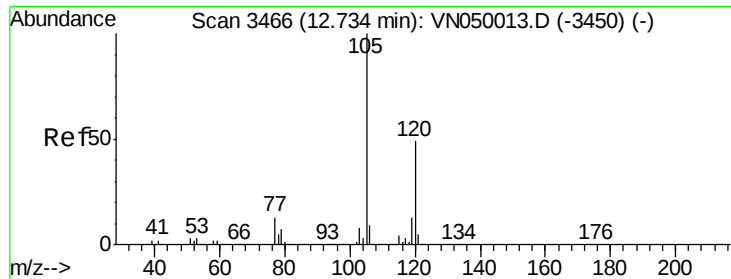
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

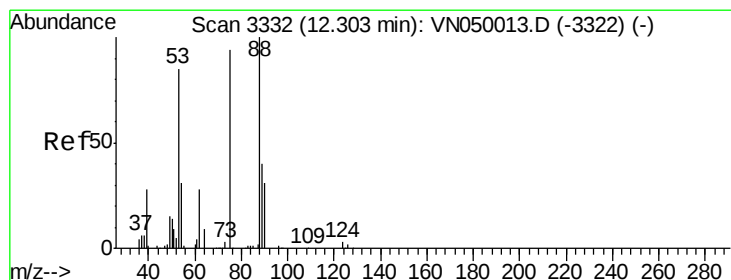
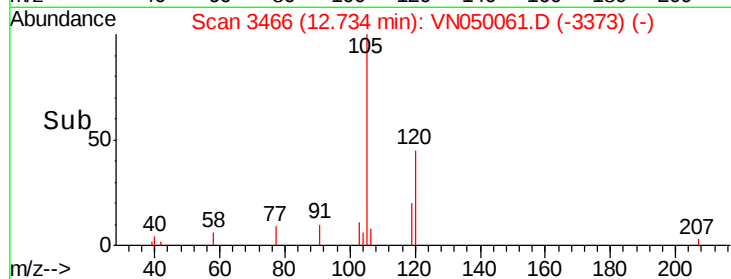
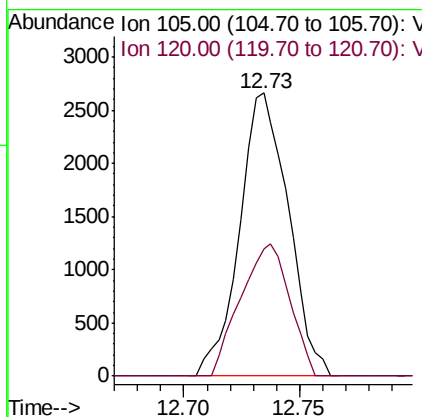
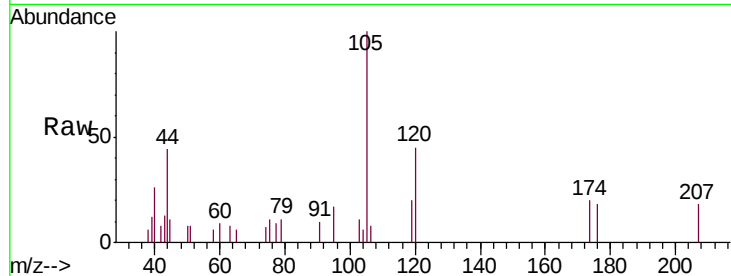




#80
 1,3,5-Trimethylbenzene
 Concen: 0.22 ug/l
 RT: 12.73 min Scan# 3466
 Delta R.T. 0.00 min
 Lab File: VN050061.D
 Acq: 25 Jul 2018 23:04

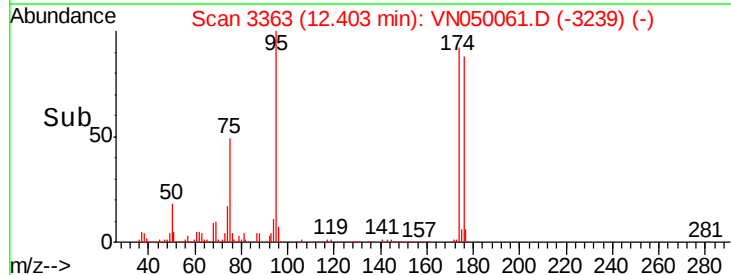
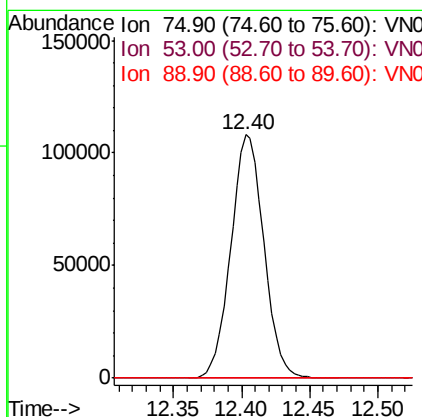
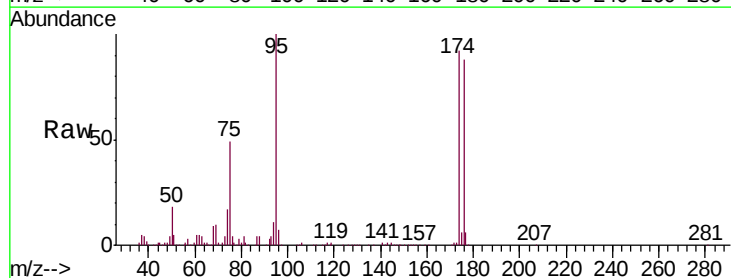
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111424ZHE#08

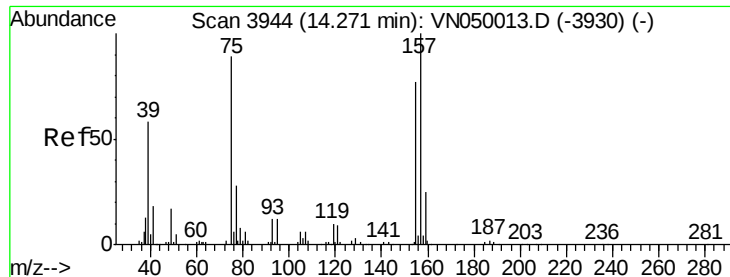
Tot Ion:105 Resp: 3887
 Ion Ratio Lower Upper
 105 100
 120 47.0 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.48 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050061.D
 Acq: 25 Jul 2018 23:04

Tgt Ion: 75 Resp: 181353
 Ion Ratio Lower Upper
 75 100
 53 0.2 73.5 110.3#
 89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#08

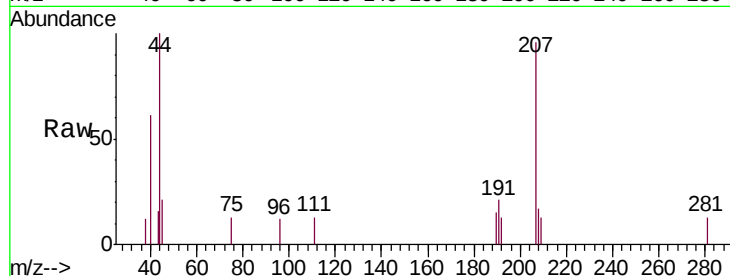
Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

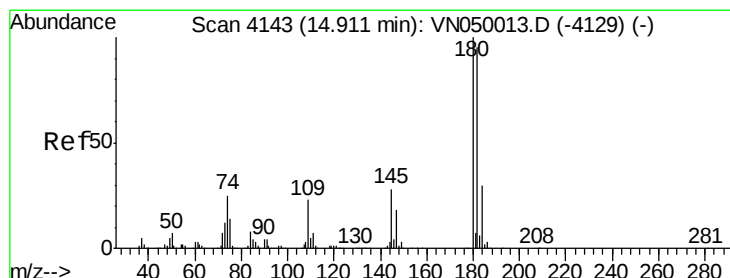
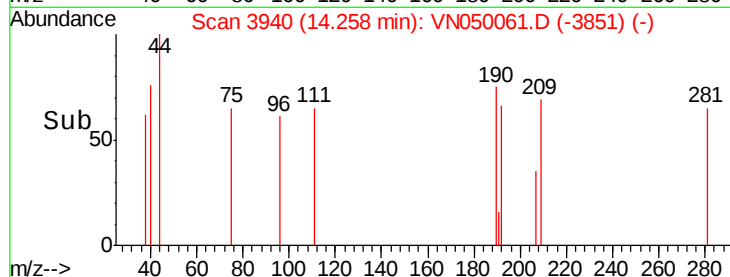
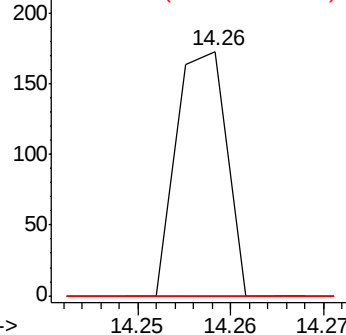
157 0.0 57.2 171.6#



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: 3.09 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

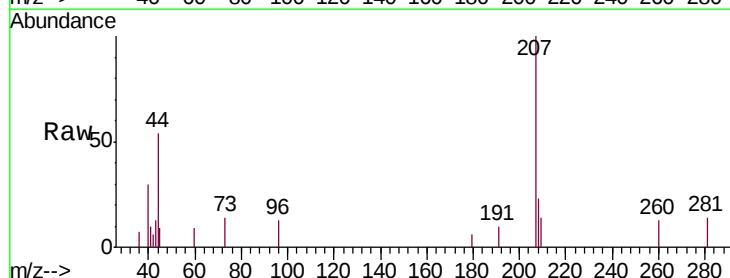
Tgt Ion: 180 Resp: 30

Ion Ratio Lower Upper

180 100

182 103.3 46.7 140.1

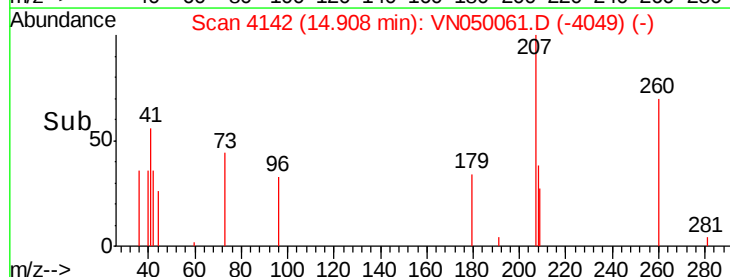
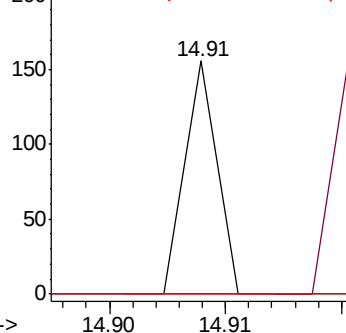
145 0.0 13.8 41.4#

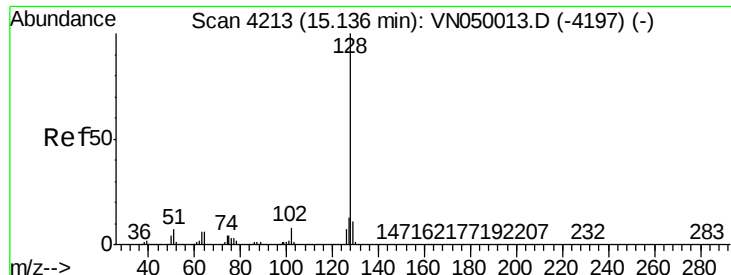


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.45 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN050061.D

Acq: 25 Jul 2018 23:04

Instrument :

MSVOA_N

ClientSampleId :

PB111424ZHE#08

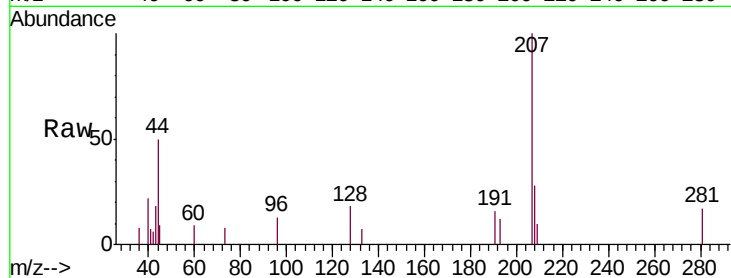
Tot Ion:128 Resp: 567

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

