

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051020.D
 Acq On : 4 Sep 2018 15:31
 Operator : MD\SY
 Sample : PB112553ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#06

Quant Time: Sep 05 01:09:21 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	588429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	956222	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	785933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	231207	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	379694	53.60	ug/l	0.00
Spiked Amount			Recovery	=	107.20%	
35) Dibromofluoromethane	7.59	113	363057	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
50) Toluene-d8	10.09	98	1295106	45.54	ug/l	0.00
Spiked Amount			Recovery	=	91.08%	
62) 4-Bromofluorobenzene	12.40	95	319935	33.85	ug/l	0.00
Spiked Amount			Recovery	=	67.70%	

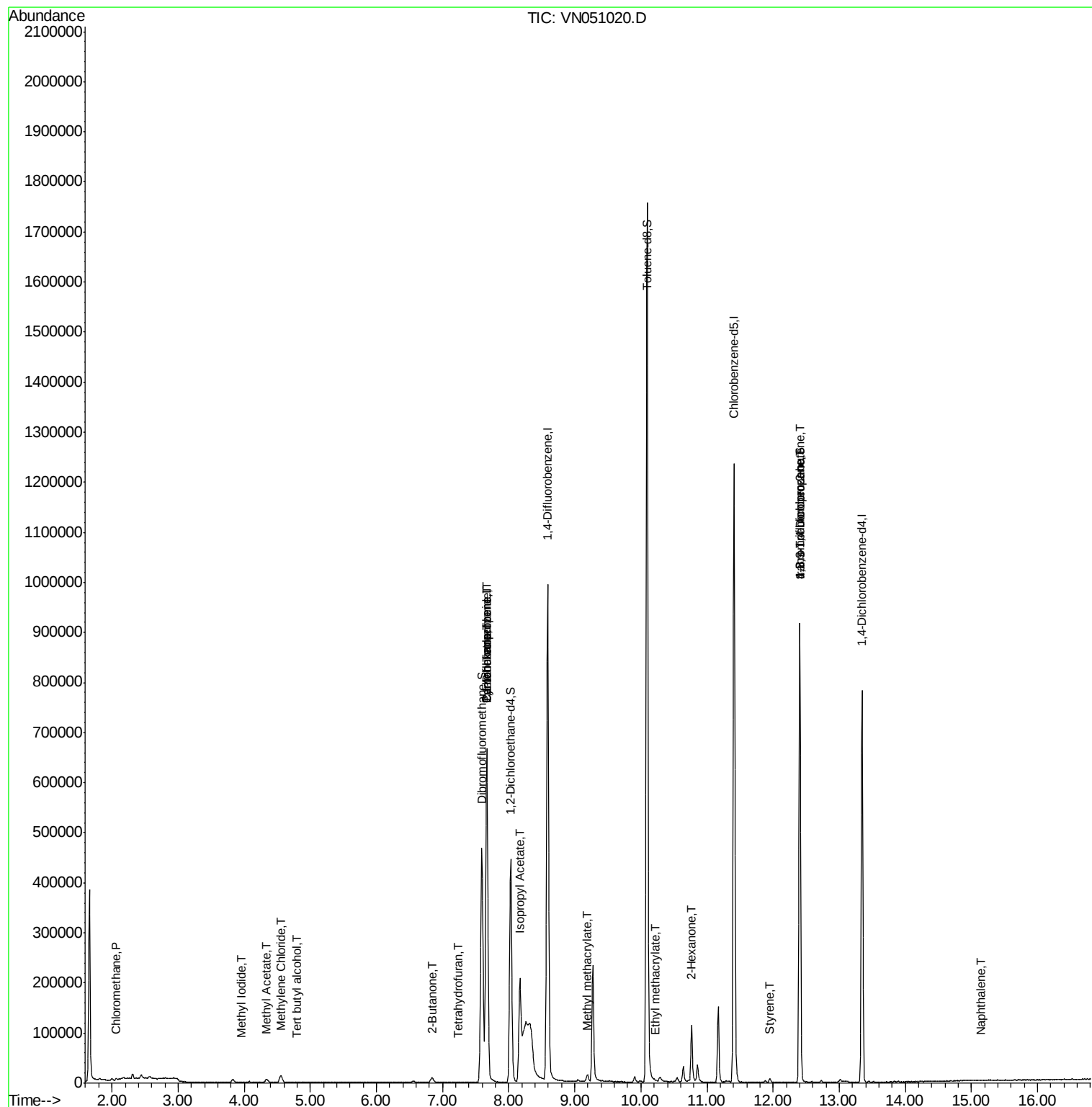
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1983	0.20	ug/l	# 83
5) Bromomethane	2.57	94	2052	Below	Cal	99
10) Methyl Iodide	3.95	142	233	6.37	ug/l	# 43
11) Tert butyl alcohol	4.80	59	356	0.79	ug/l	# 72
16) Acetone	3.82	43	9992	Below	Cal	99
18) Methyl Acetate	4.33	43	14073	2.10	ug/l	97
20) Methylene Chloride	4.56	84	11105	1.39	ug/l	98
25) 2-Butanone	6.85	43	7644	2.68	ug/l	99
29) Tetrahydrofuran	7.23	42	738	0.45	ug/l	# 36
31) Cyclohexane	7.67	56	9835	1.27	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	38727	3.43	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	51727	4.54	ug/l	# 17
43) Isopropyl Acetate	8.17	43	262949	23.59	ug/l	95
48) Methyl methacrylate	9.18	41	7254	1.28	ug/l	# 20
56) Ethyl methacrylate	10.23	69	2078	2.55	ug/l	# 74
59) 2-Hexanone	10.77	43	17504	3.95	ug/l	63
70) Styrene	11.96	104	64	1.27	ug/l	# 26
75) 1,1,2,2-Tetrachloroethane	12.41	83	93	Below	Cal	# 1
76) 1,2,3-Trichloropropane	12.40	75	148958	36.78	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	148958	124.35	ug/l	# 15
95) Naphthalene	15.14	128	62	5.41	ug/l	# 69

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

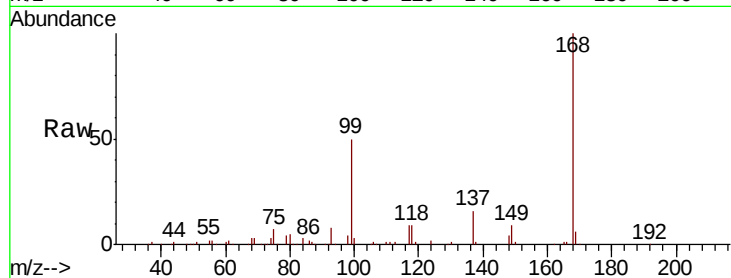
PB112553ZHE#06

Tot Ion:168 Resp: 588429

Ion Ratio Lower Upper

168 100

99 50.1 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051020.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN051020.D (-1797) (-)

7.67

250000

200000

150000

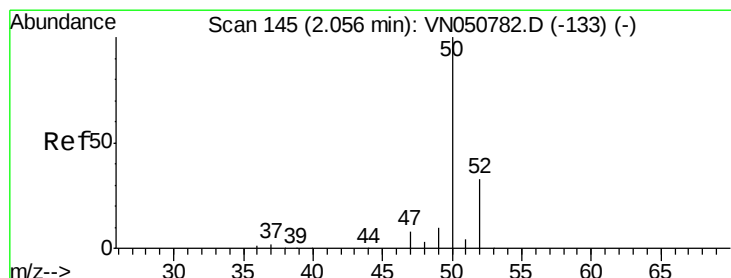
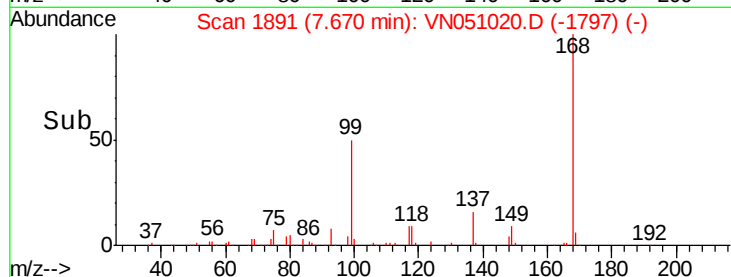
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.20 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN051020.D

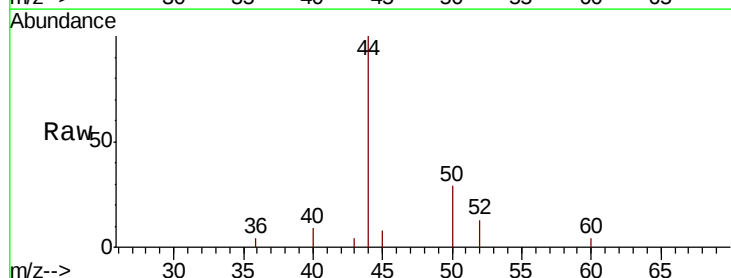
Acq: 4 Sep 2018 15:31

Tgt Ion: 50 Resp: 1983

Ion Ratio Lower Upper

50 100

52 42.6 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN051020.D (-52) (-)

Ion 51.90 (51.60 to 52.60): VN051020.D (-52) (-)

2.06

1500

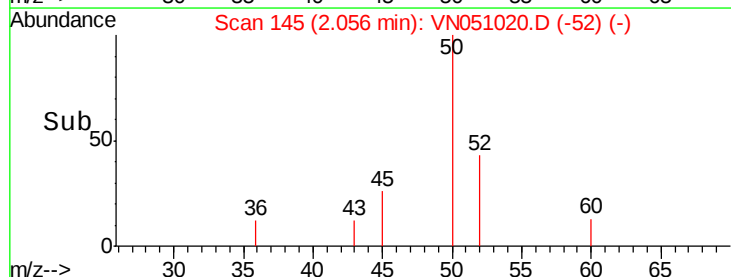
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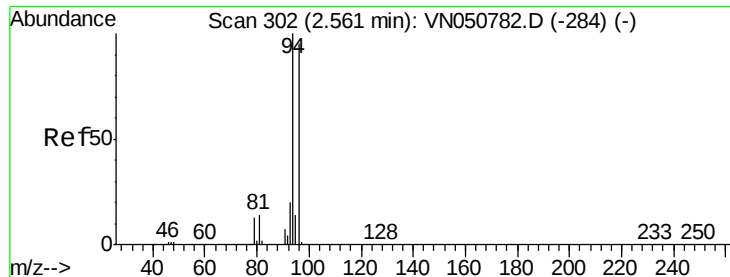
500

0

2.05 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

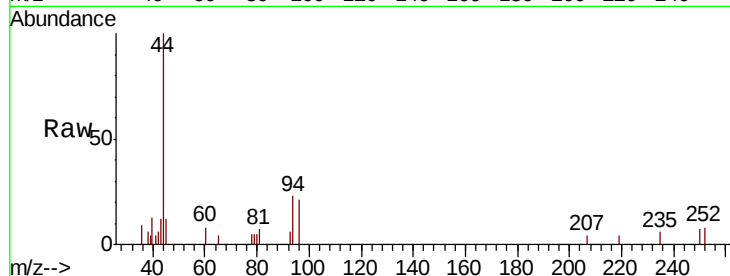
PB112553ZHE#06

Tot Ion: 94 Resp: 2052

Ion Ratio Lower Upper

94 100

96 93.7 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

1000

800

600

400

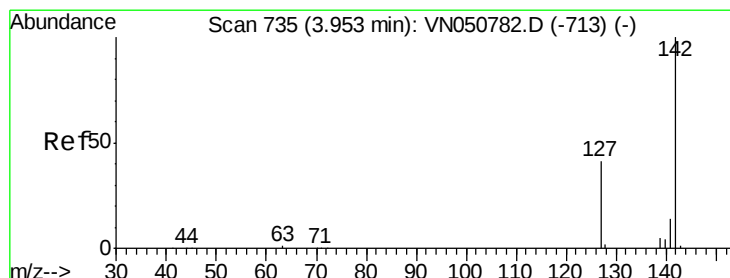
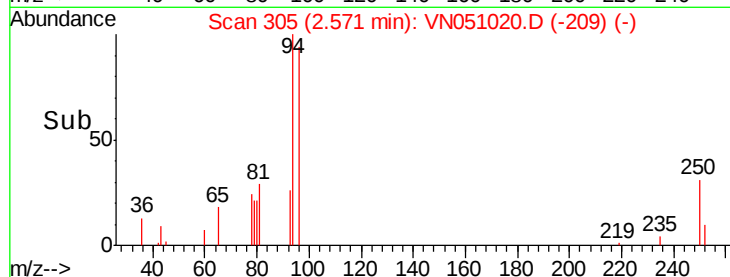
200

0

Time-->

2.55

2.60



#10

Methyl Iodide

Concen: 6.37 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

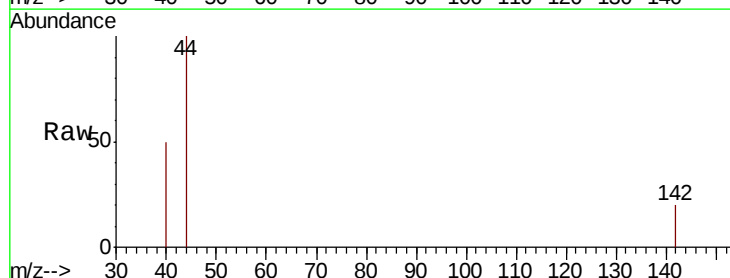
Tgt Ion: 142 Resp: 233

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

300

250

200

150

100

50

0

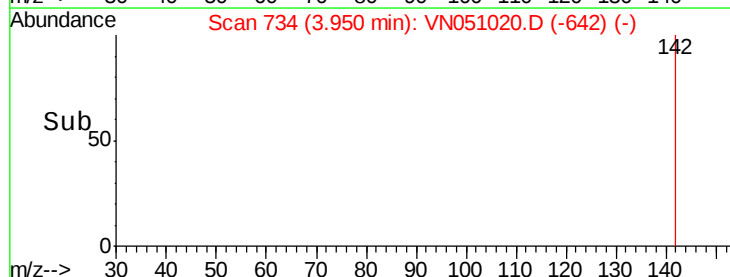
Time-->

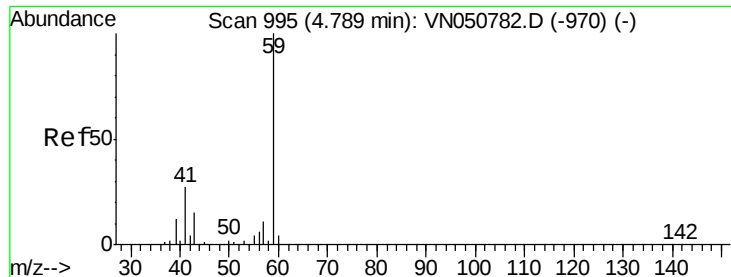
3.93

3.94

3.95

3.96

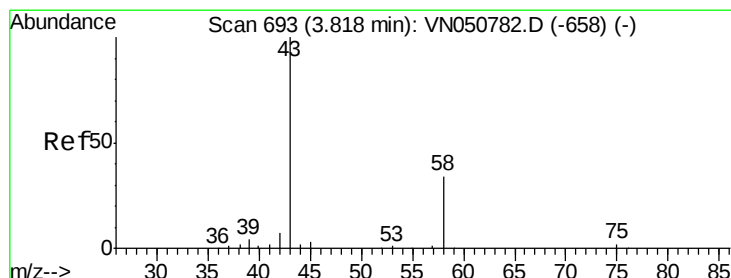
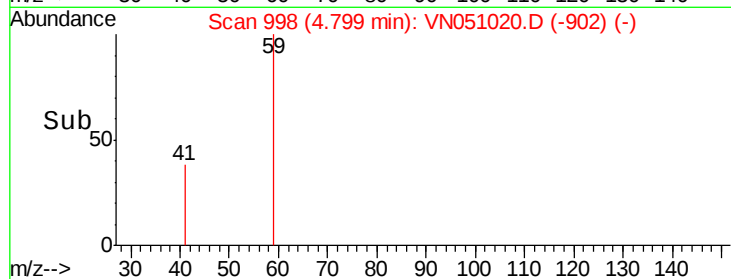
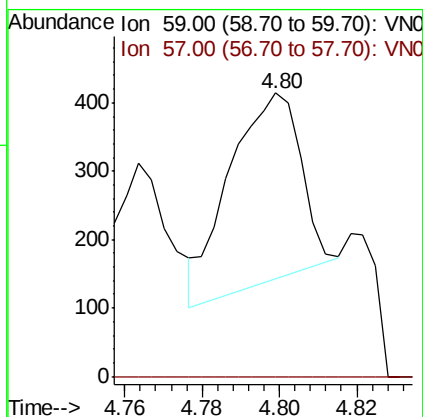
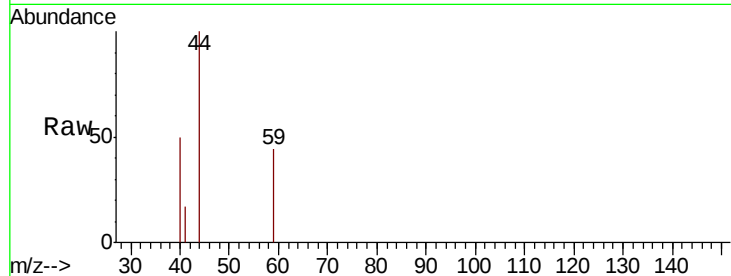




#11
Tert butyl alcohol
Concen: 0.79 ug/l
RT: 4.80 min Scan# 998
Delta R.T. 0.01 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

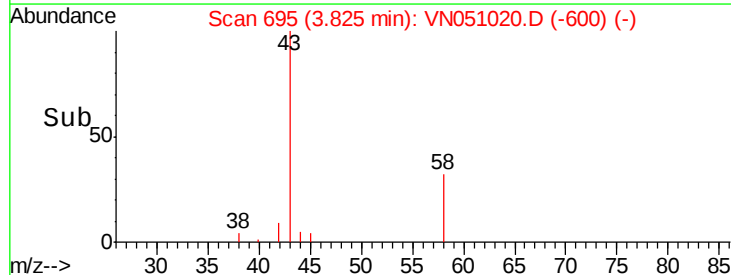
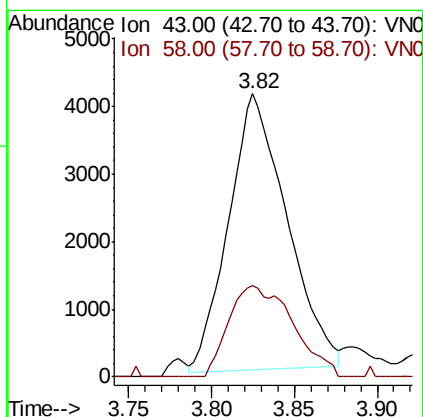
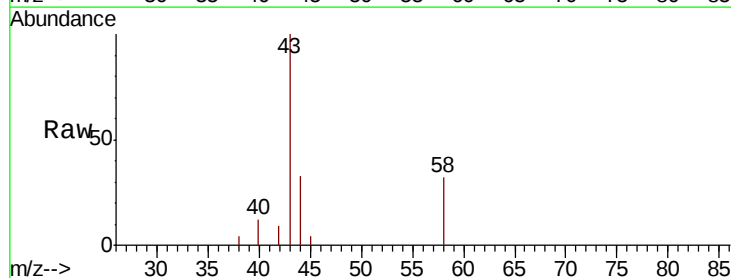
Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#06

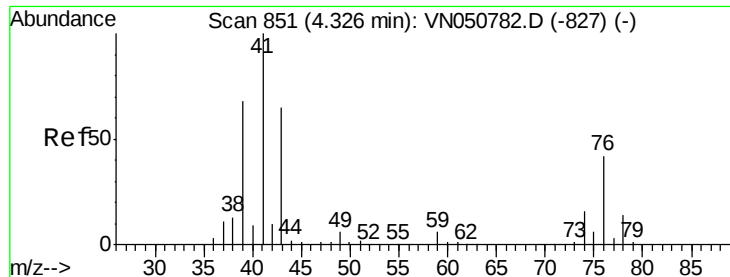
Tot Ion: 59 Resp: 356
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 695
Delta R.T. 0.01 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

Tgt Ion: 43 Resp: 9992
Ion Ratio Lower Upper
43 100
58 33.6 27.2 40.8

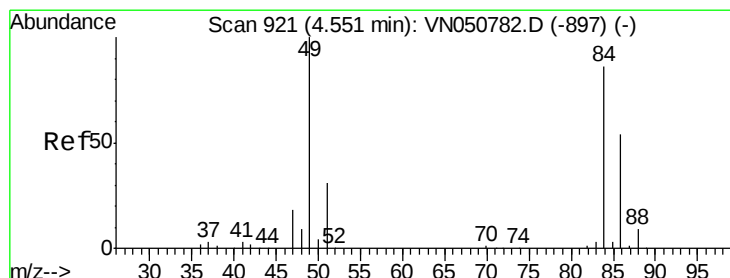
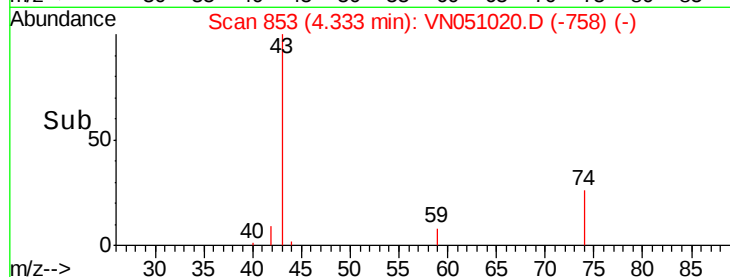
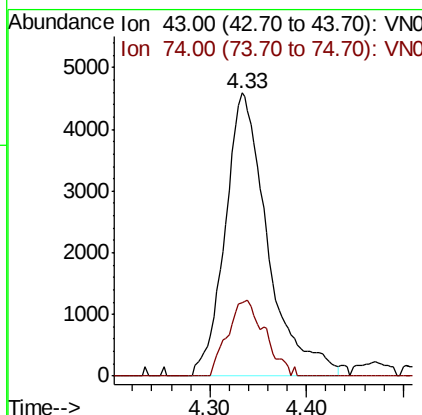
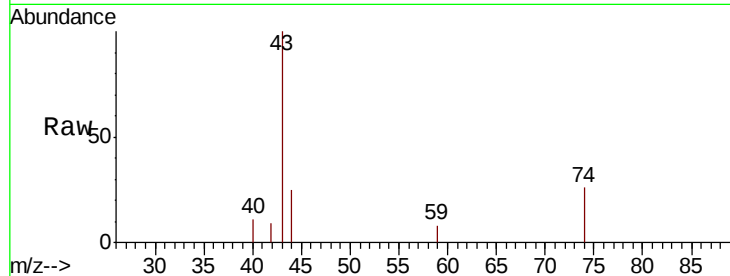




#18
Methvl Acetate
Concen: 2.10 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

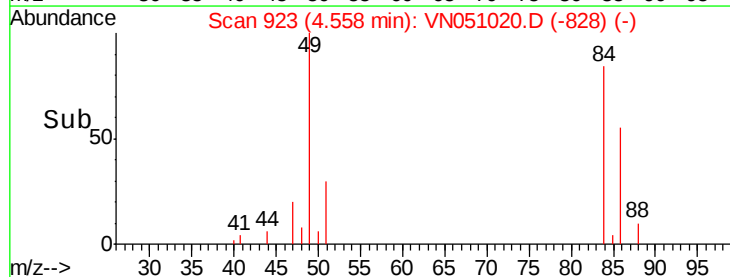
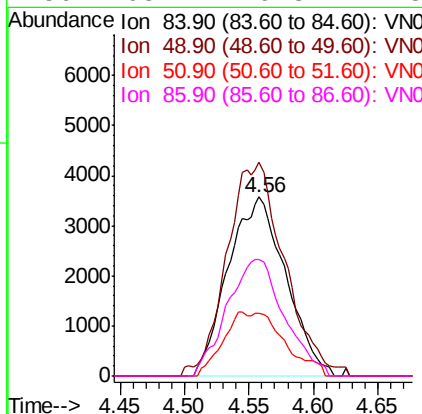
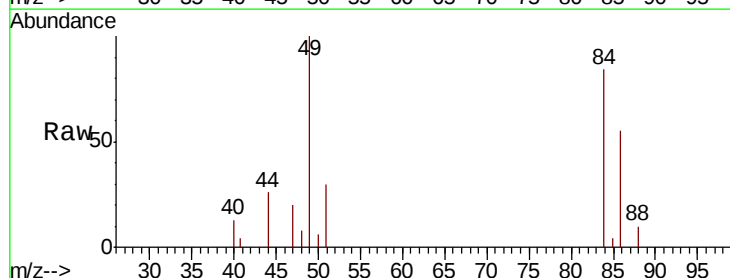
Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#06

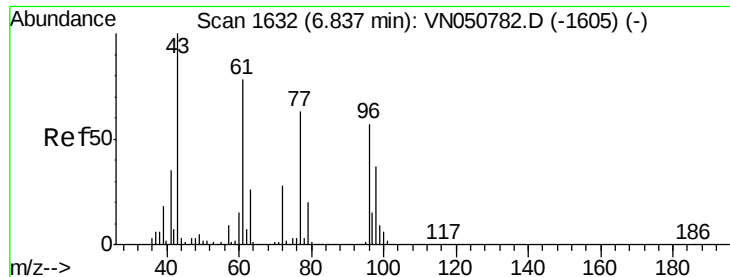
Tot Ion: 43 Resp: 14073
Ion Ratio Lower Upper
43 100
74 23.5 19.8 29.8



#20
Methylene Chloride
Concen: 1.39 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

Tgt Ion: 84 Resp: 11105
Ion Ratio Lower Upper
84 100
49 114.3 93.2 139.8
51 35.3 29.0 43.6
86 65.2 49.8 74.8

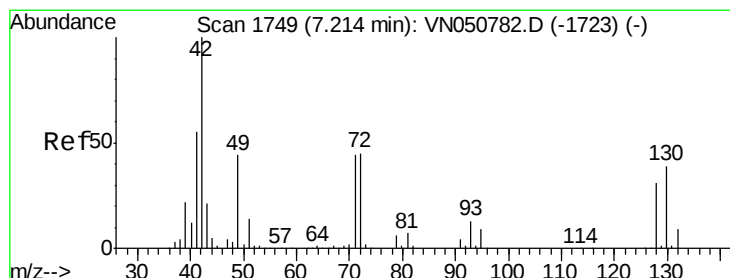
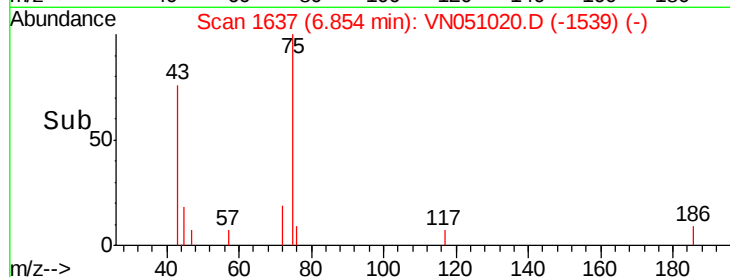
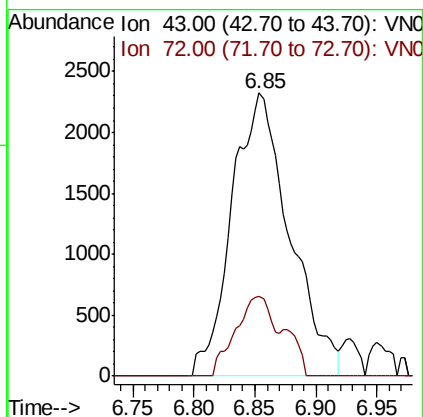
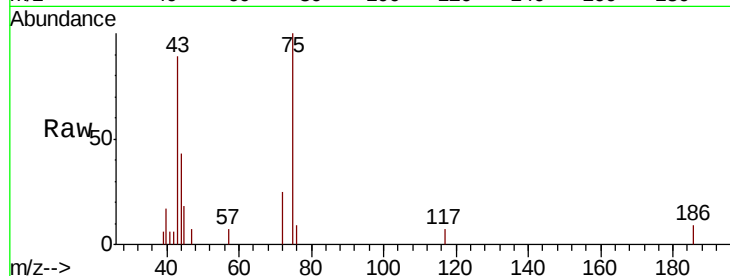




#25
2-Butanone
Concen: 2.68 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.02 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

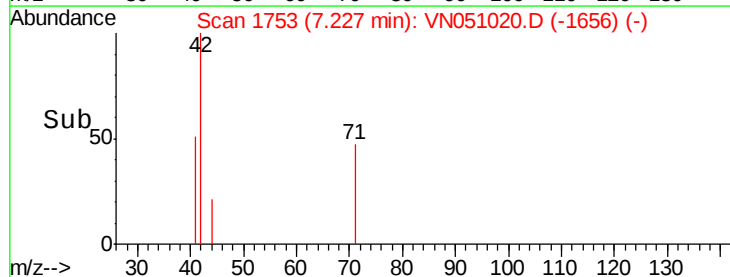
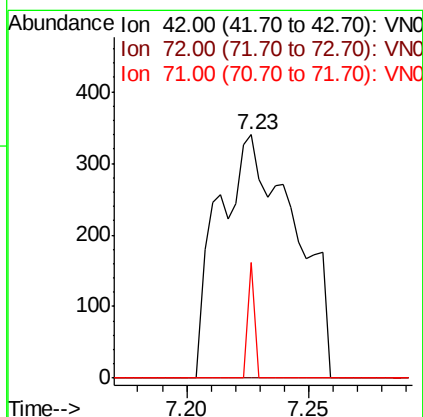
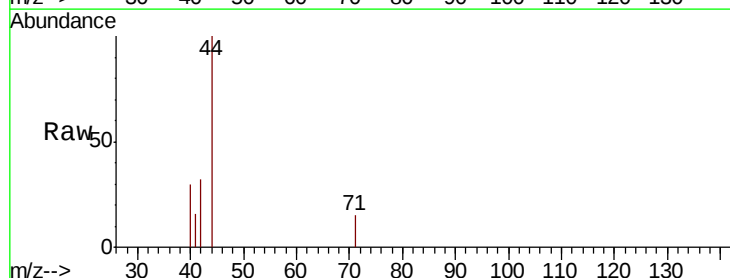
Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#06

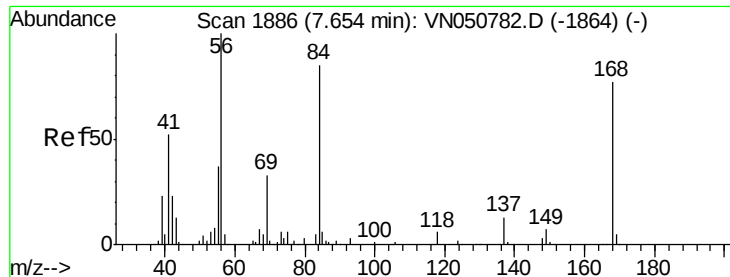
Tot Ion: 43 Resp: 7644
Ion Ratio Lower Upper
43 100
72 28.3 22.3 33.5



#29
Tetrahydrofuran
Concen: 0.45 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

Tgt Ion: 42 Resp: 738
Ion Ratio Lower Upper
42 100
72 0.0 35.5 53.3#
71 4.2 33.7 50.5#





#31

Cyclohexane

Concen: 1.27 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#06

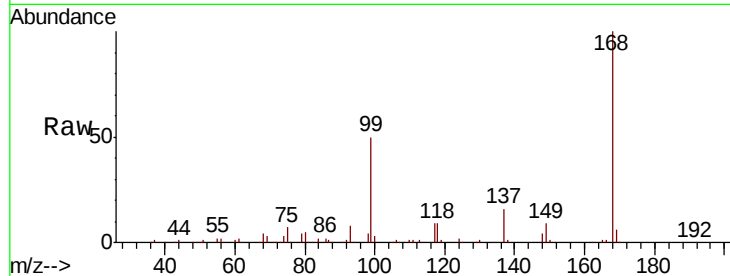
Tot Ion: 56 Resp: 9835

Ion Ratio Lower Upper

56 100

69 197.8 26.2 39.4#

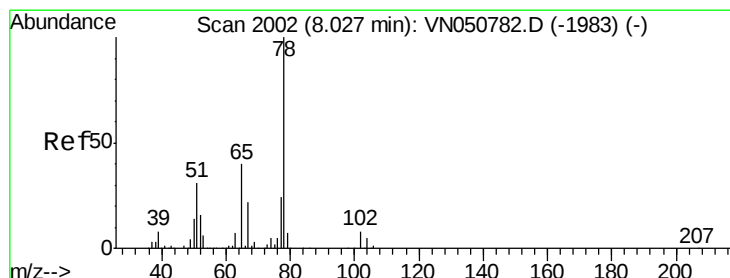
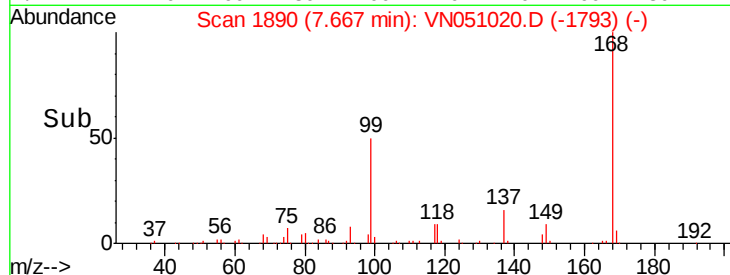
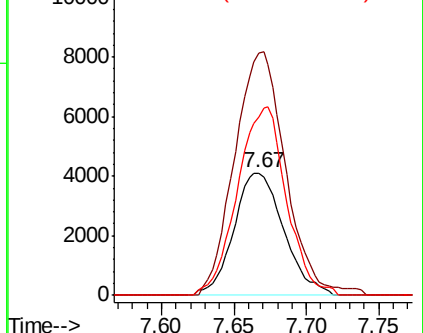
84 146.4 68.3 102.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.60 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN051020.D

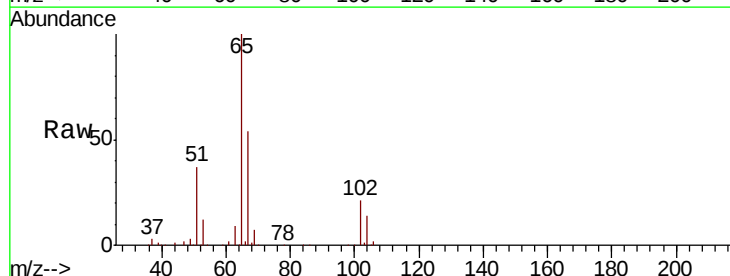
Acq: 4 Sep 2018 15:31

Tgt Ion: 65 Resp: 379694

Ion Ratio Lower Upper

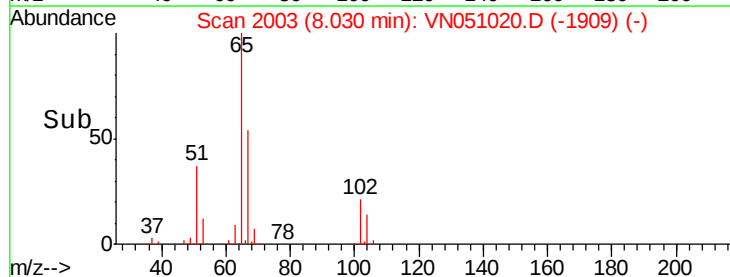
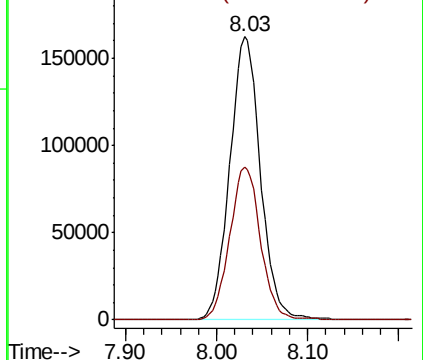
65 100

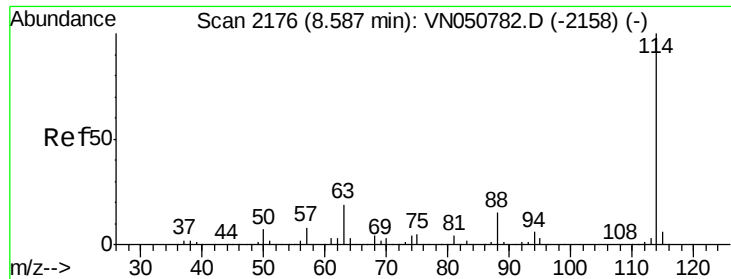
67 54.5 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

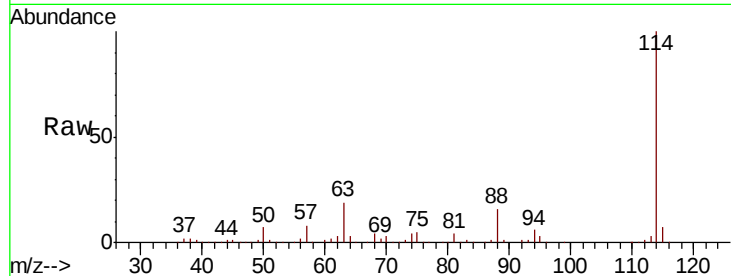




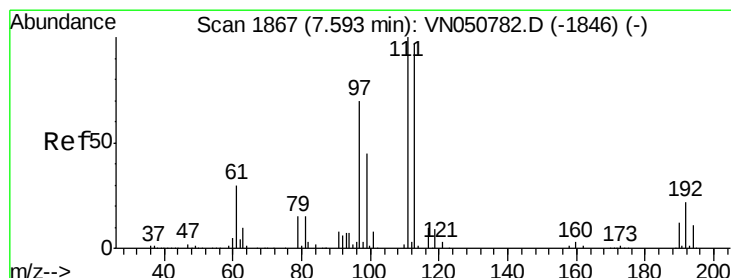
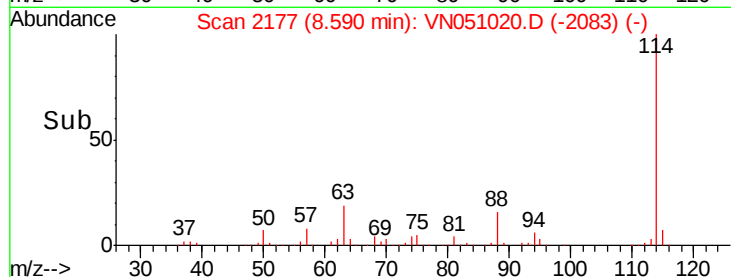
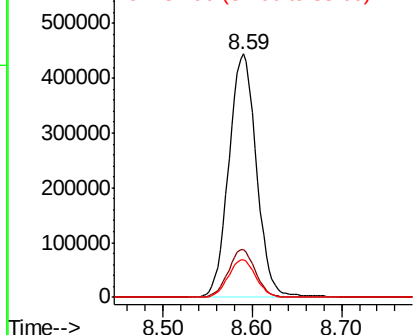
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN051020.D
 Acq: 4 Sep 2018 15:31

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#06

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	38.6
88	15.6	0.0	30.6

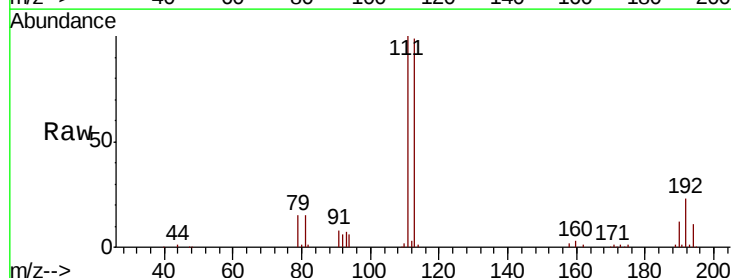


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

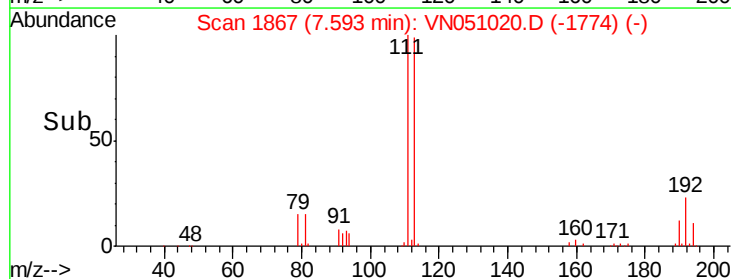
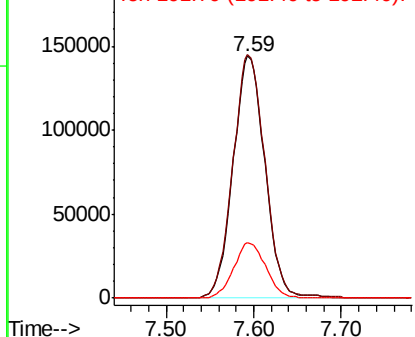


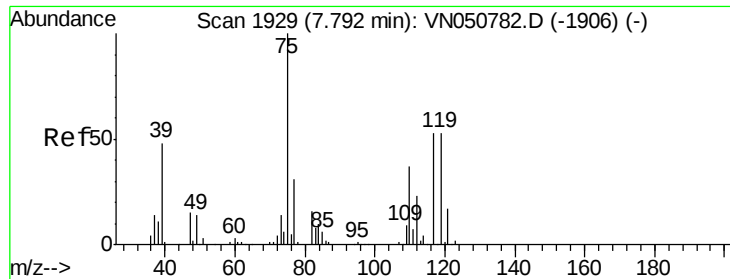
#35
 Dibromofluoromethane
 Concen: 47.72 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN051020.D
 Acq: 4 Sep 2018 15:31

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.6	123.8
192	23.3	18.0	27.0



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

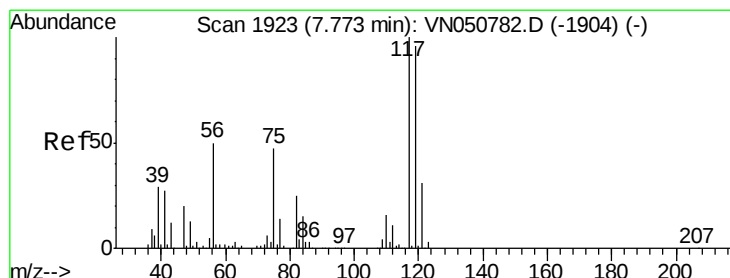
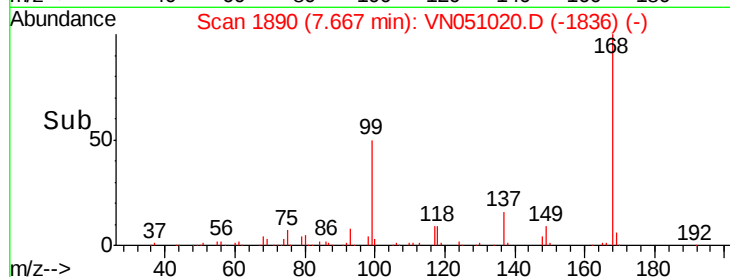
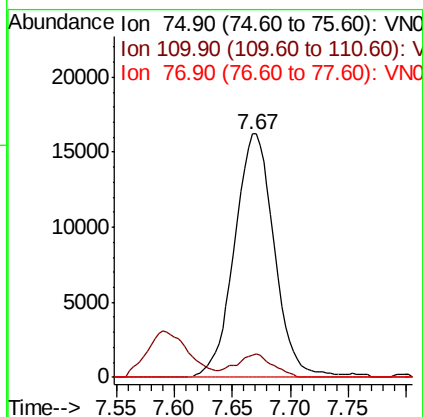
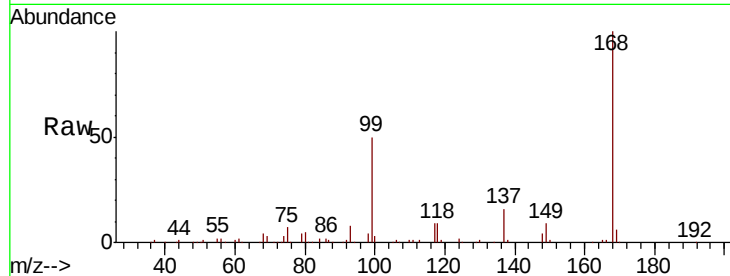




#36
 1,1-Dichloropropene
 Concen: 3.43 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN051020.D
 Acq: 4 Sep 2018 15:31

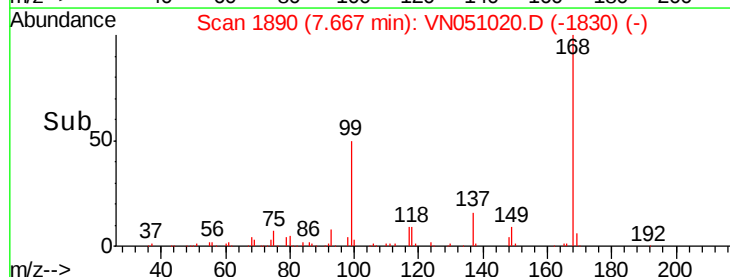
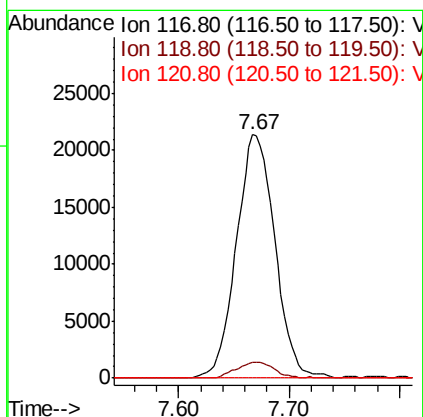
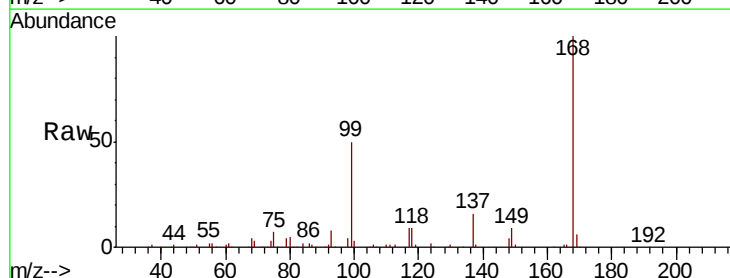
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#06

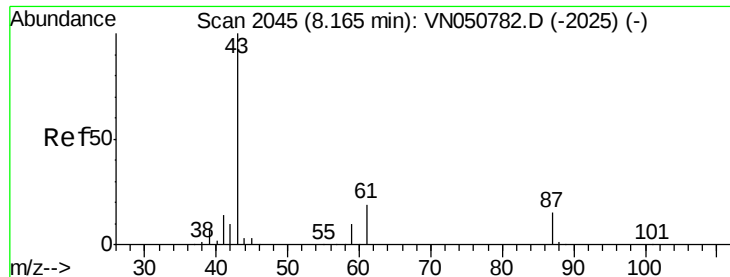
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.54 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN051020.D
 Acq: 4 Sep 2018 15:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 23.59 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#06

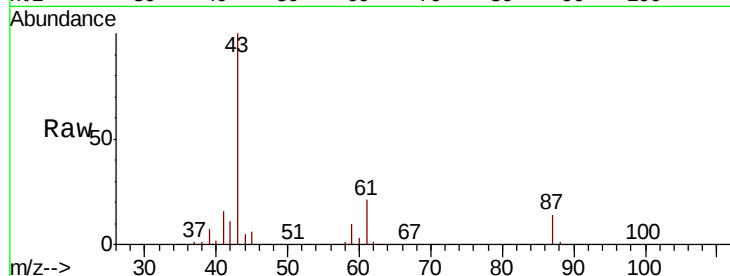
Tot Ion: 43 Resp: 262949

Ion Ratio Lower Upper

43 100

61 18.9 17.5 26.3

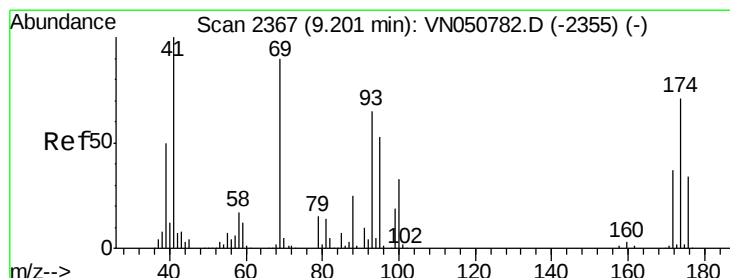
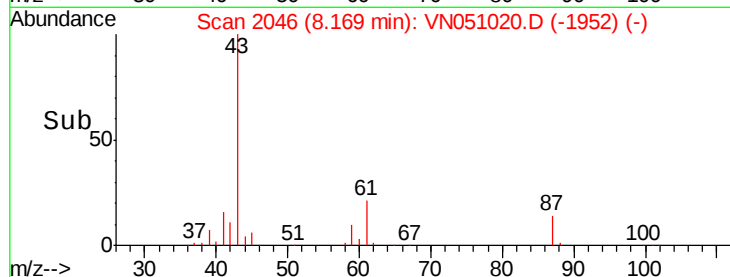
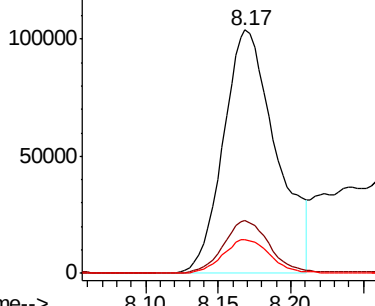
87 12.6 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.28 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

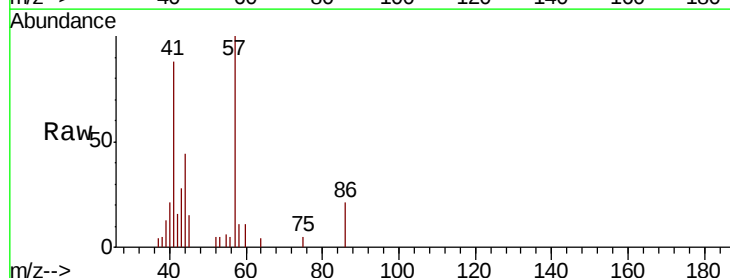
Tgt Ion: 41 Resp: 7254

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

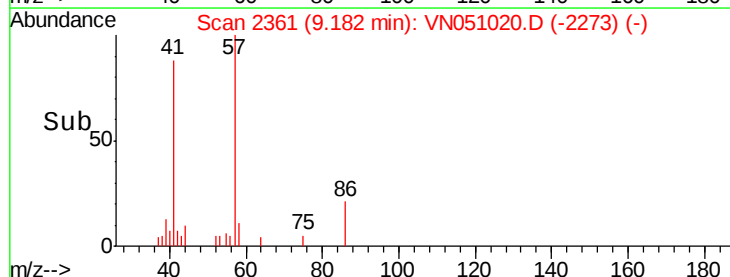
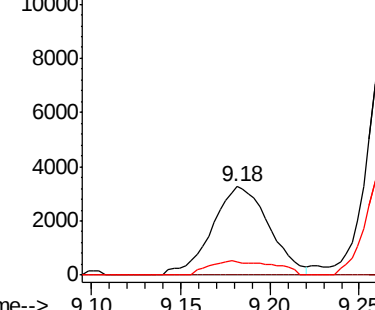
39 18.4 42.2 63.2#

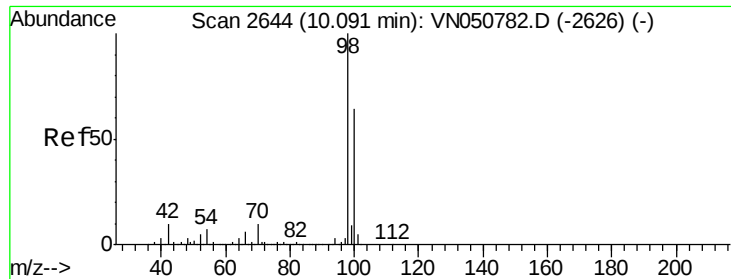


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 45.54 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

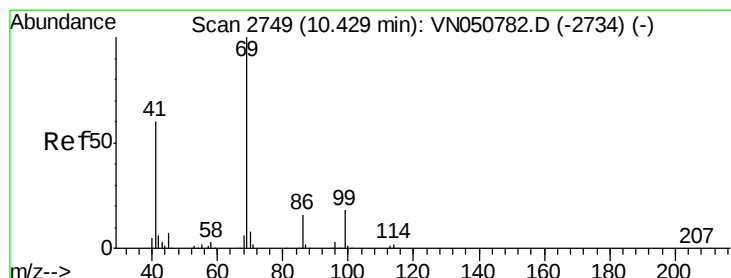
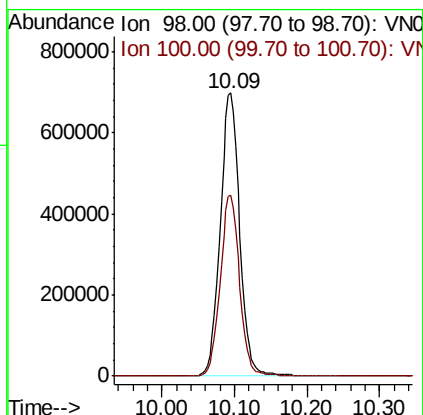
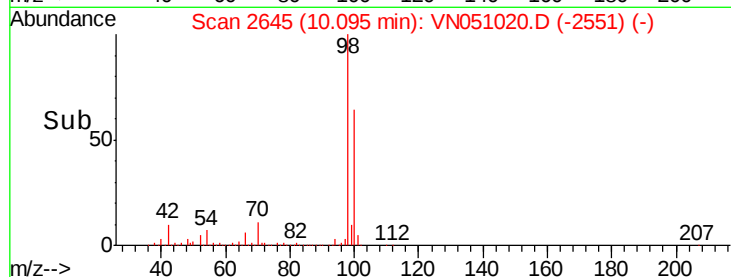
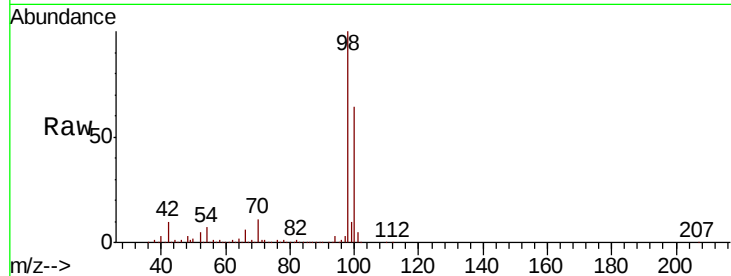
PB112553ZHE#06

Tot Ion: 98 Resp: 1295106

Ion Ratio Lower Upper

98 100

100 63.3 51.5 77.3



#56

Ethyl methacrylate

Concen: 2.55 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

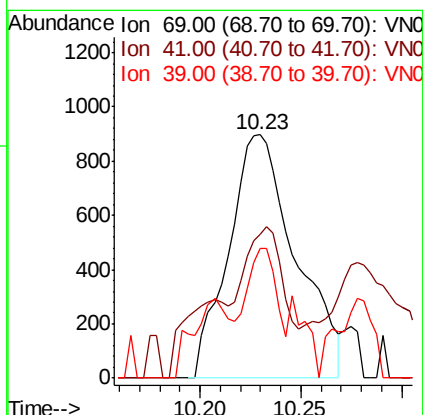
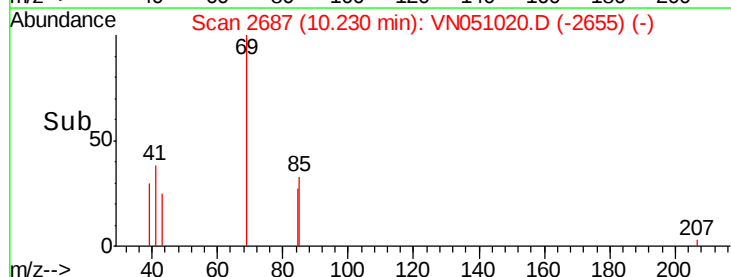
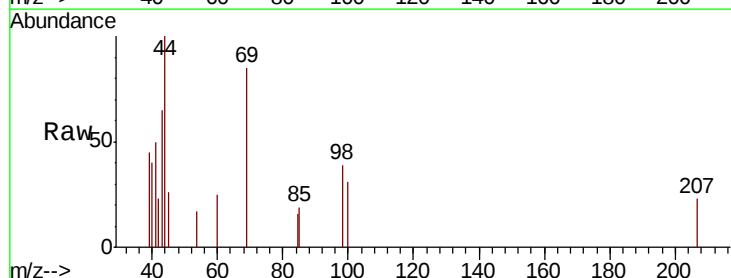
Tgt Ion: 69 Resp: 2078

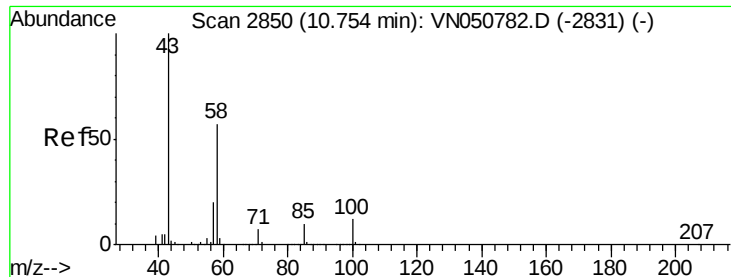
Ion Ratio Lower Upper

69 100

41 40.3 48.3 72.5#

39 15.9 24.0 36.0#





#59

2-Hexanone

Concen: 3.95 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

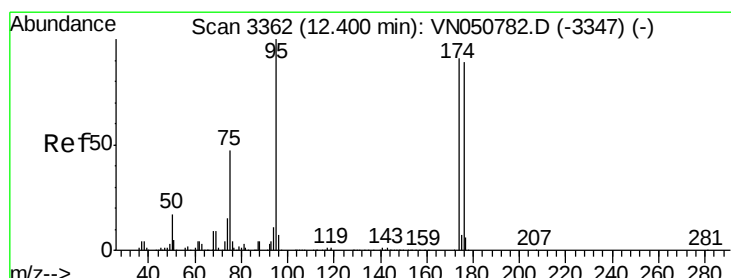
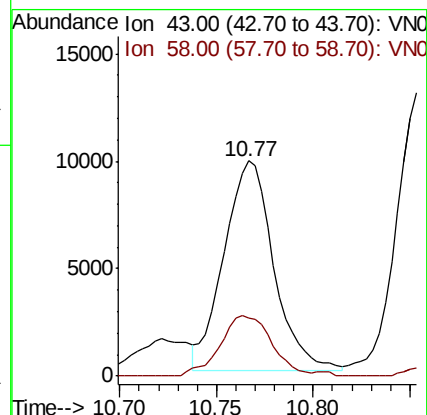
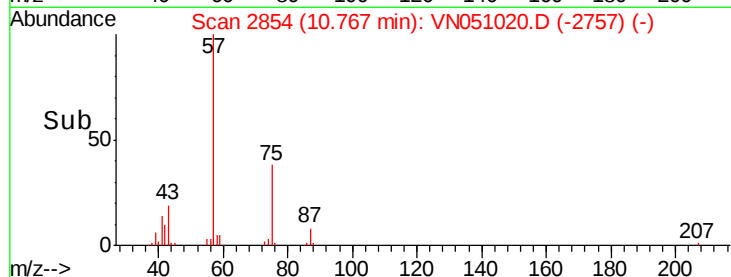
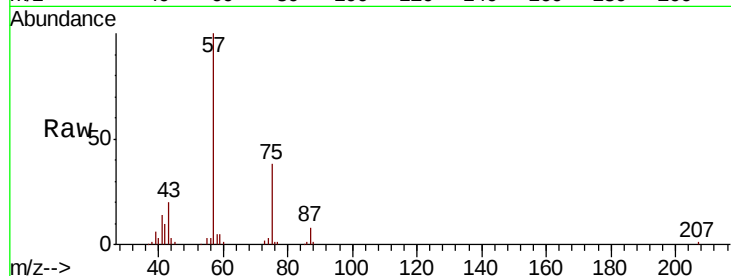
PB112553ZHE#06

Tot Ion: 43 Resp: 17504

Ion Ratio Lower Upper

43 100

58 29.9 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 33.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

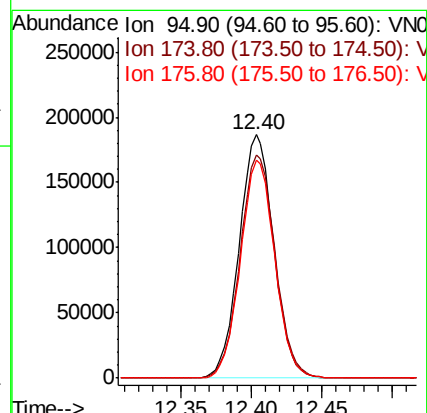
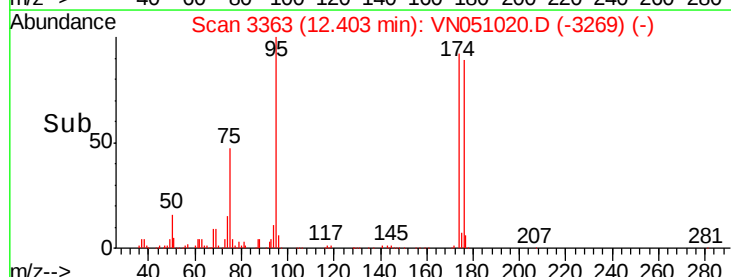
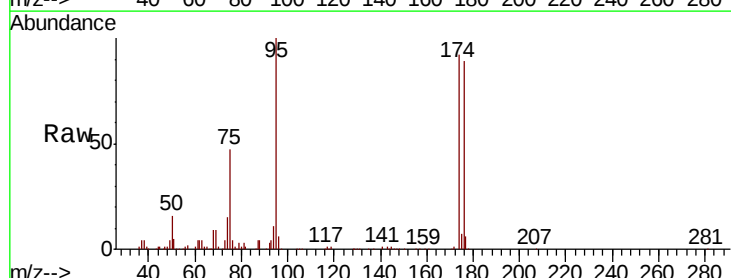
Tgt Ion: 95 Resp: 319935

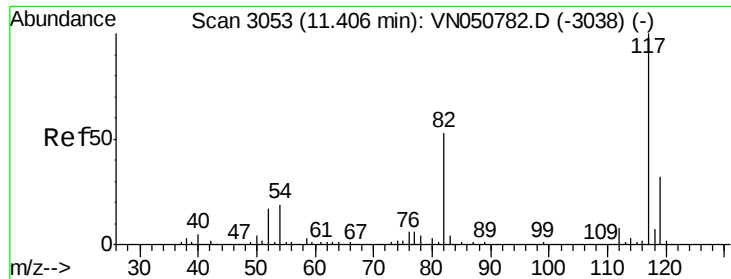
Ion Ratio Lower Upper

95 100

174 93.7 0.0 183.0

176 89.4 0.0 178.8

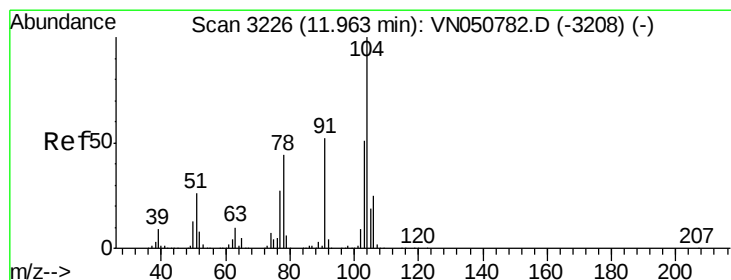
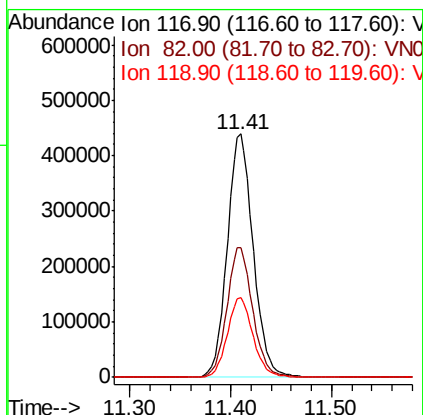
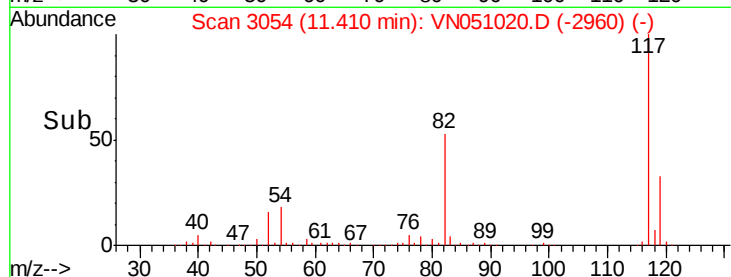
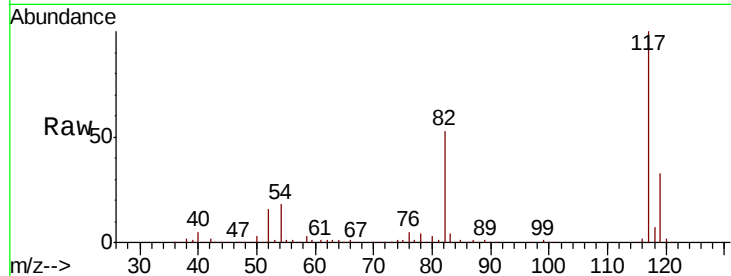




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

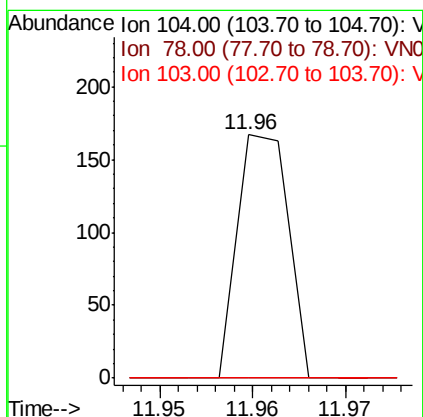
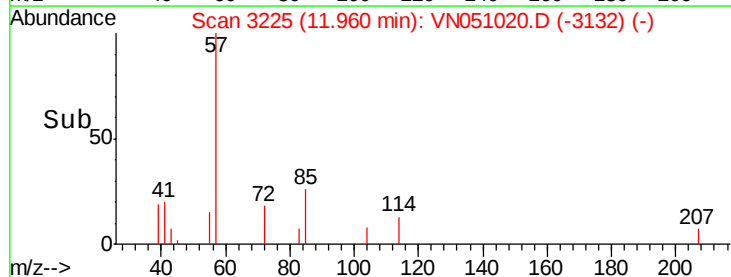
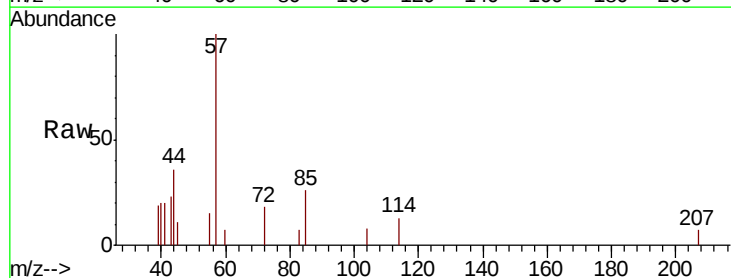
Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#06

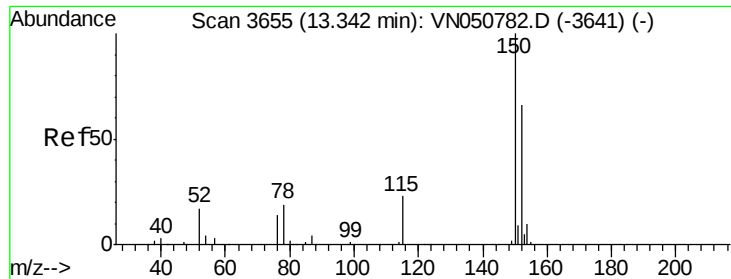
Tot Ion:117 Resp: 785933
Ion Ratio Lower Upper
117 100
82 53.0 42.6 64.0
119 32.8 25.8 38.6



#70
Styrene
Concen: 1.27 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.00 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

Tgt Ion:104 Resp: 64
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#06

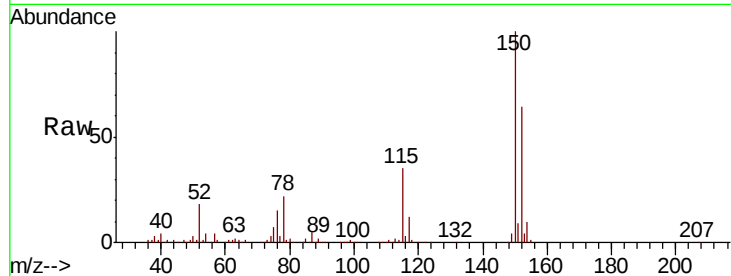
Tot Ion:152 Resp: 231207

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.4

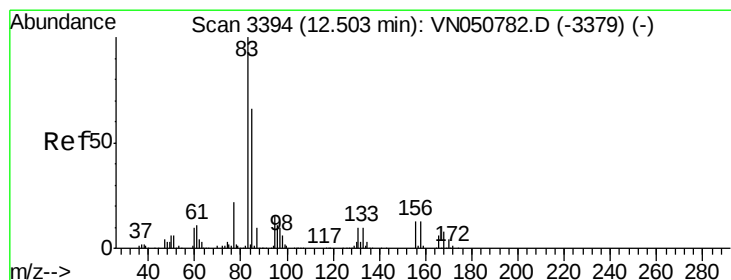
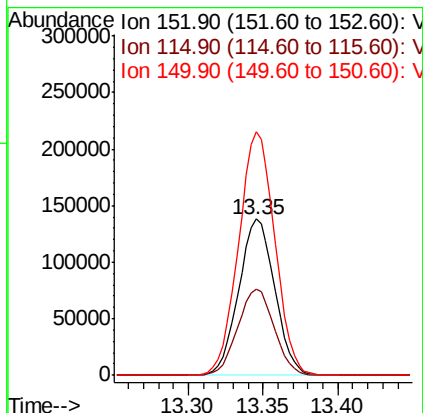
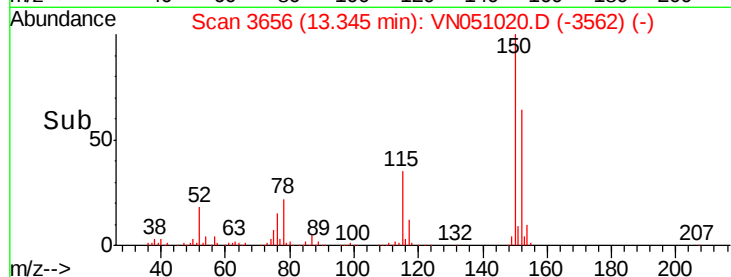
150 156.8 0.0 351.4



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: VN051020.D

Acq: 4 Sep 2018 15:31

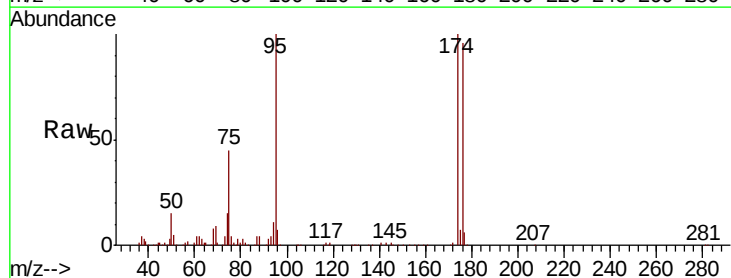
Tgt Ion: 83 Resp: 93

Ion Ratio Lower Upper

83 100

131 261.3 5.3 15.9#

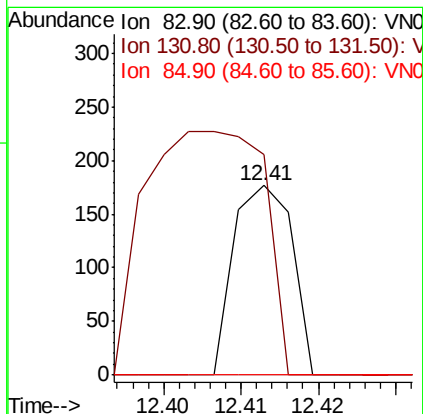
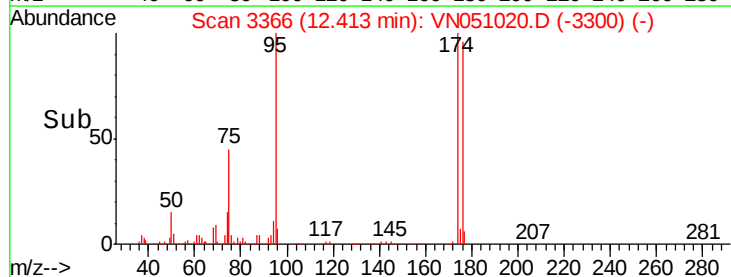
85 0.0 31.9 95.7#

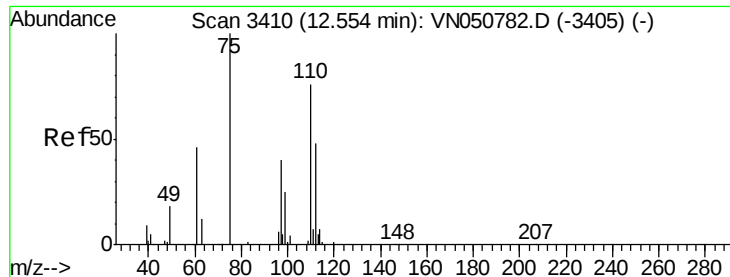


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 36.78 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

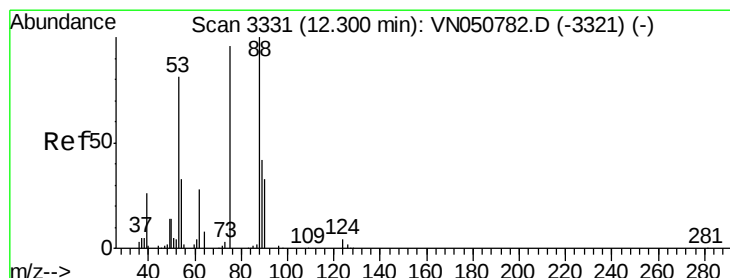
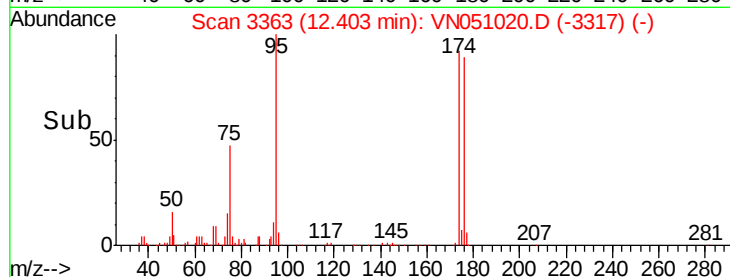
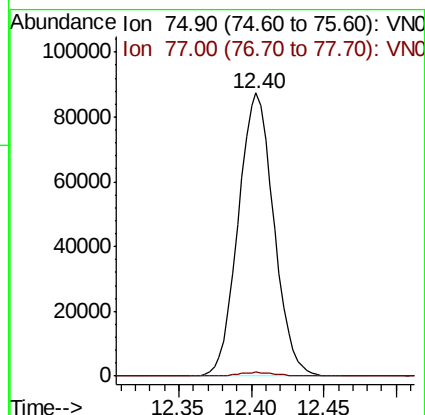
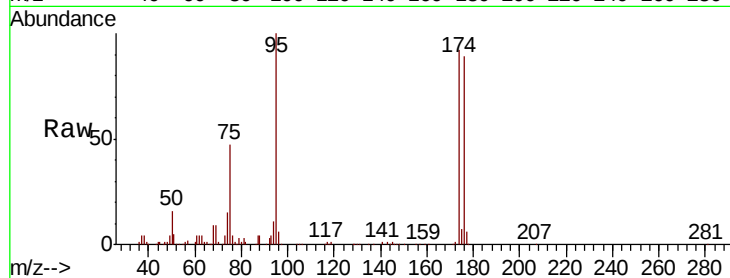
PB112553ZHE#06

Tot Ion: 75 Resp: 148958

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 124.35 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN051020.D

Acq: 4 Sep 2018 15:31

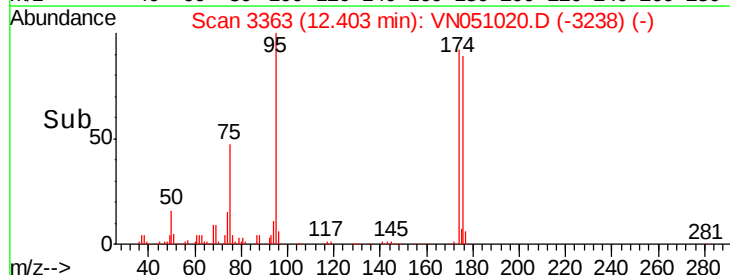
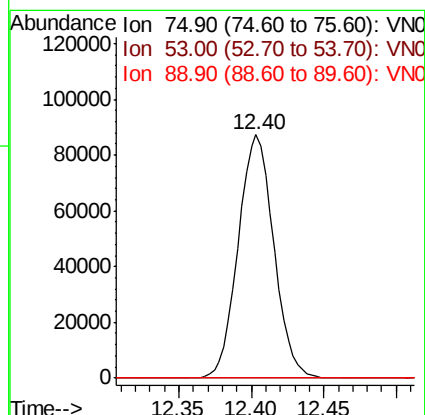
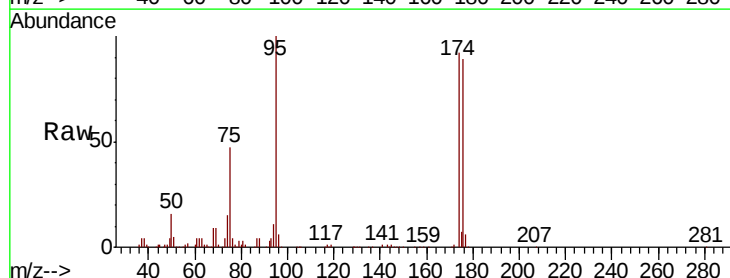
Tgt Ion: 75 Resp: 148958

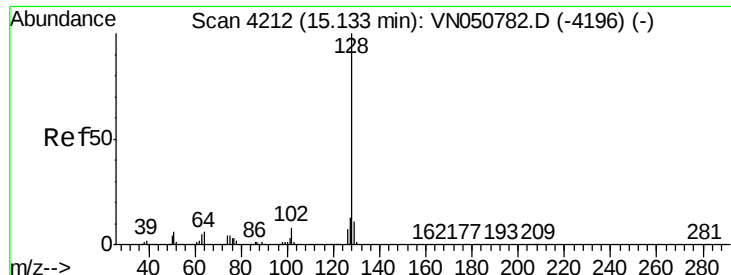
Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

89 0.0 36.1 54.1#





#95
Naphthalene
Concen: 5.41 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN051020.D
Acq: 4 Sep 2018 15:31

Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#06

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.7	13.1#

