

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN050989.D
 Acq On : 31 Aug 2018 15:39
 Operator : MD\SY
 Sample : PB112510ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112510ZHE#02

Quant Time: Aug 31 23:02:22 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	562360	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	931063	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	769907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	242818	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	361942	53.46	ug/l	0.00
Spiked Amount			Recovery	=	106.92%	
35) Dibromofluoromethane	7.59	113	349822	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
50) Toluene-d8	10.09	98	1235886	44.63	ug/l	0.00
Spiked Amount			Recovery	=	89.26%	
62) 4-Bromofluorobenzene	12.40	95	322692	35.07	ug/l	0.00
Spiked Amount			Recovery	=	70.14%	

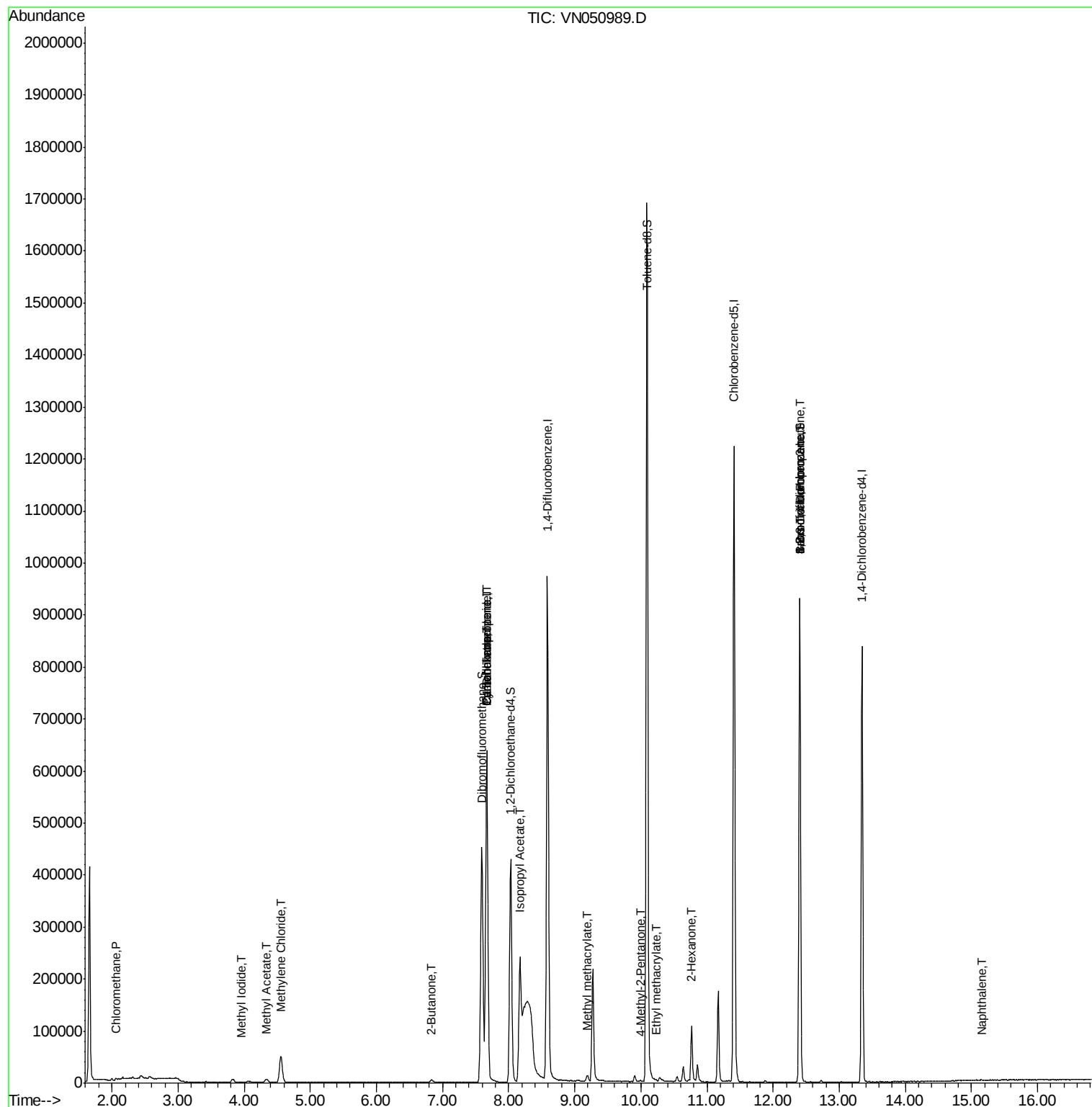
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2120	0.23	ug/l	95
5) Bromomethane	2.56	94	2369	Below Cal		100
10) Methyl Iodide	3.96	142	615	6.43	ug/l #	56
18) Methyl Acetate	4.34	43	13939	2.18	ug/l	94
20) Methylene Chloride	4.55	84	40023	5.25	ug/l	97
25) 2-Butanone	6.84	43	1689	0.62	ug/l #	47
31) Cyclohexane	7.67	56	9420	1.28	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	38029	3.46	ug/l #	48
38) Carbon Tetrachloride	7.67	117	48665	4.38	ug/l #	17
43) Isopropyl Acetate	8.17	43	301535	27.79	ug/l #	91
48) Methyl methacrylate	9.18	41	7121	1.29	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	1446	0.22	ug/l	87
56) Ethyl methacrylate	10.23	69	2141	2.57	ug/l #	62
59) 2-Hexanone	10.77	43	14884	3.45	ug/l #	58
71) Bromoform	12.40	173	1485	0.29	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	150211	35.32	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	150211	119.40	ug/l #	15
95) Naphthalene	15.14	128	107	5.41	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

Instrument :

MSVOA_N

ClientSampleId :

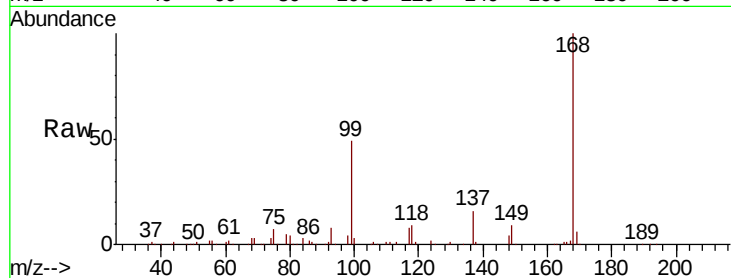
PB112510ZHE#02

Tot Ion:168 Resp: 562360

Ion Ratio Lower Upper

168 100

99 48.7 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

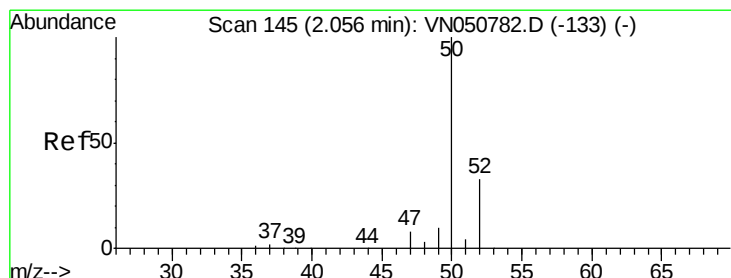
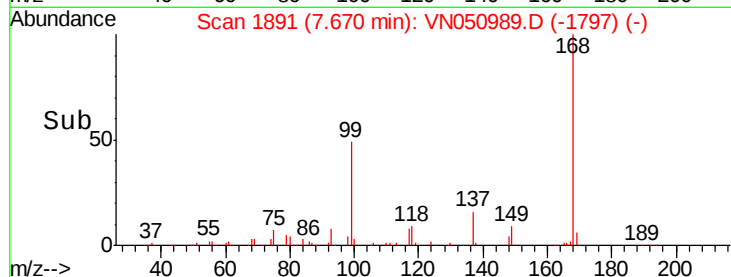
100000

50000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050989.D

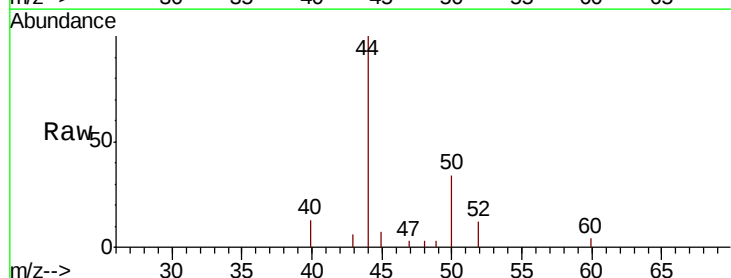
Acq: 31 Aug 2018 15:39

Tgt Ion: 50 Resp: 2120

Ion Ratio Lower Upper

50 100

52 36.0 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

1500

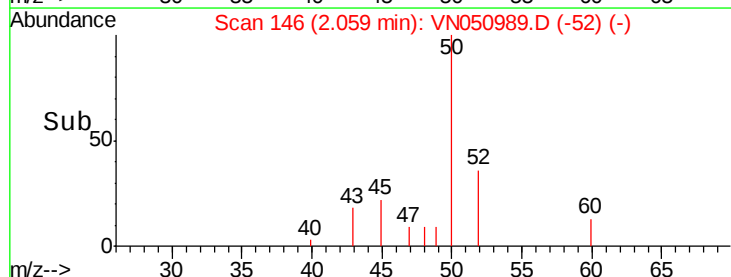
1000

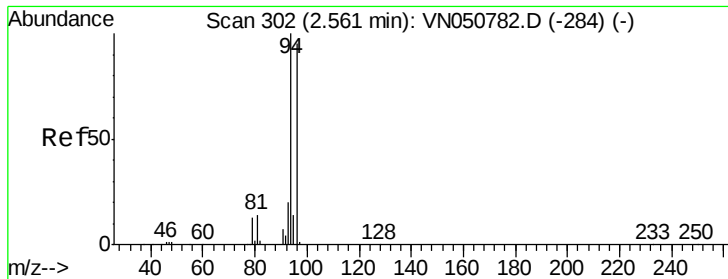
500

0

Time-->

2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

Instrument :

MSVOA_N

ClientSampleId :

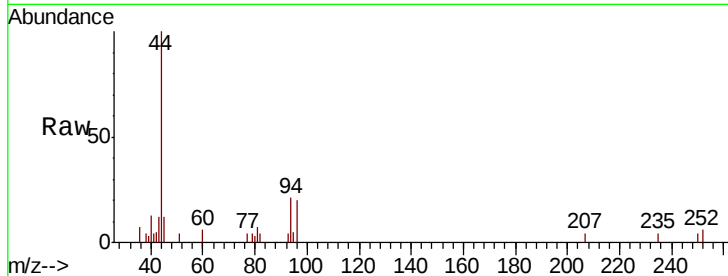
PB112510ZHE#02

Tot Ion: 94 Resp: 2369

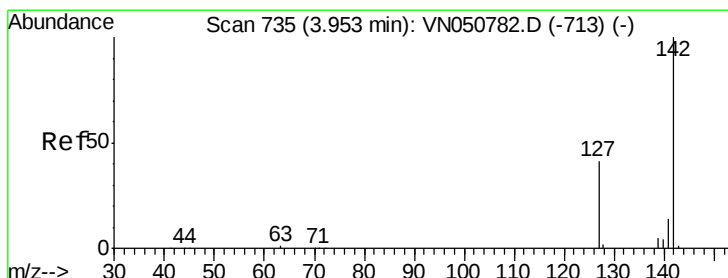
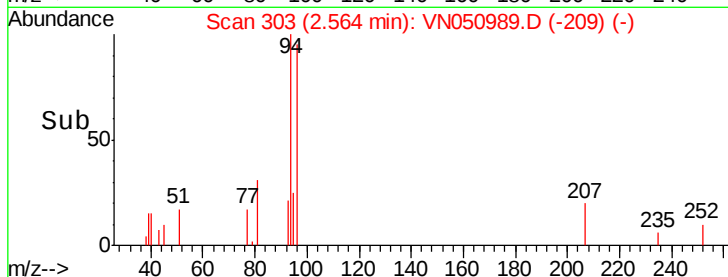
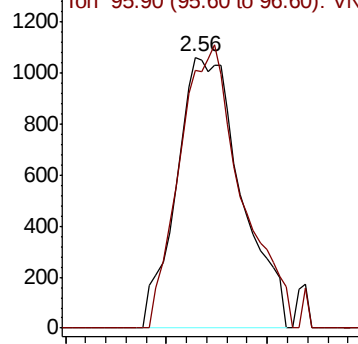
Ion Ratio Lower Upper

94 100

96 95.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050989.D (-209) (-)



#10

Methyl Iodide

Concen: 6.43 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.01 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

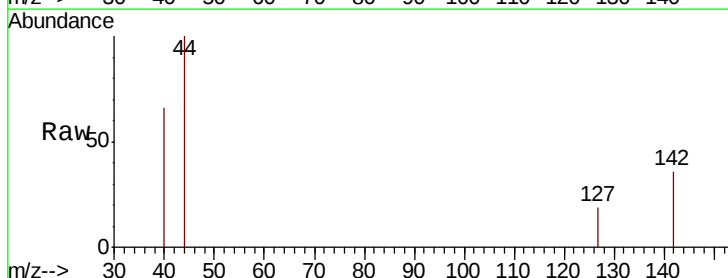
Tgt Ion: 142 Resp: 615

Ion Ratio Lower Upper

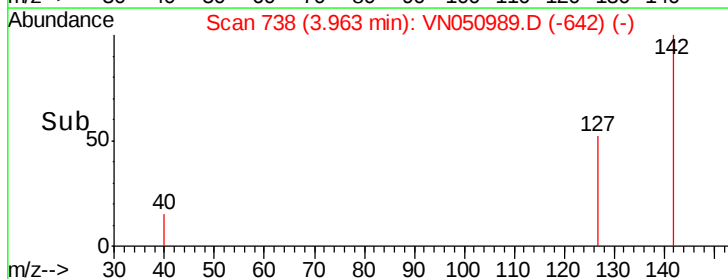
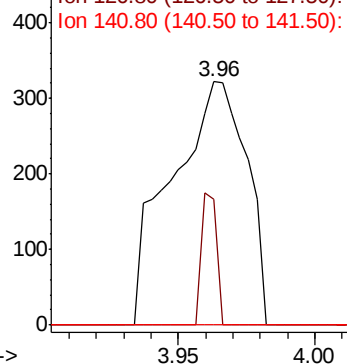
142 100

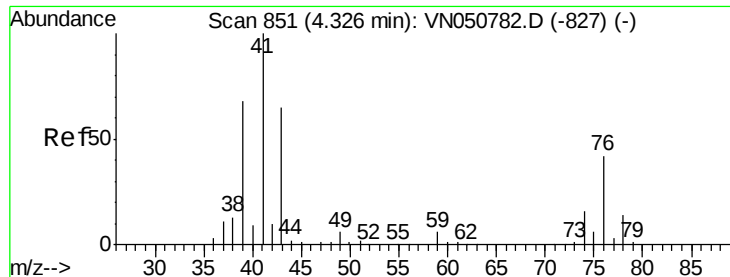
127 10.7 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050989.D (-642) (-)

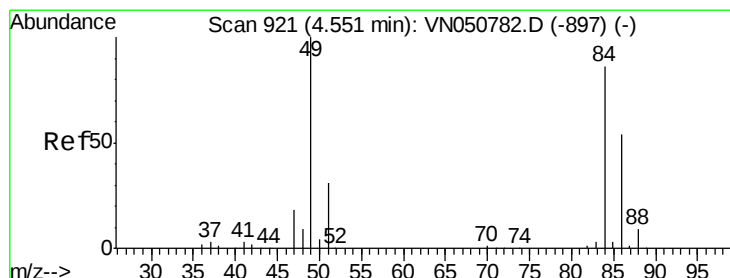
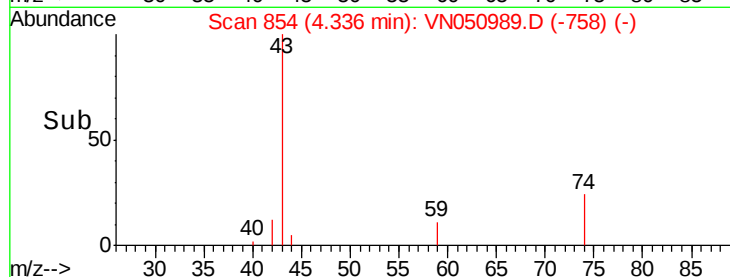
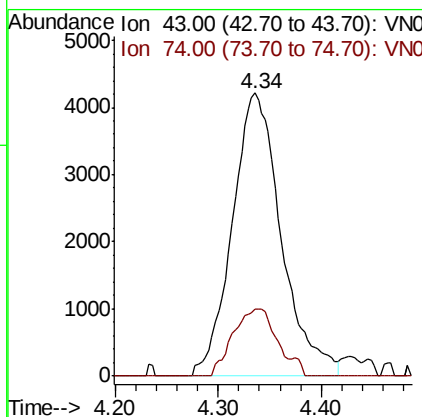
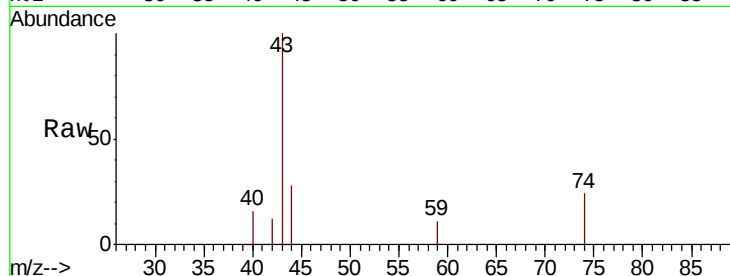




#18
Methyl Acetate
Concen: 2.18 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050989.D
Acq: 31 Aug 2018 15:39

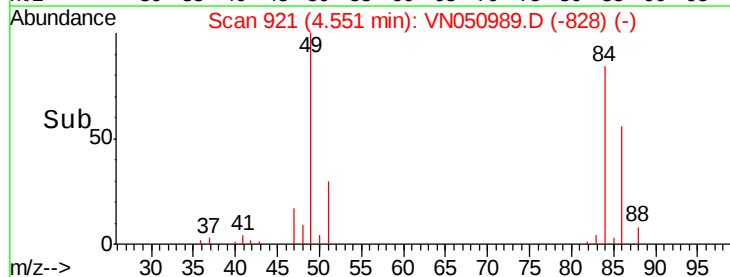
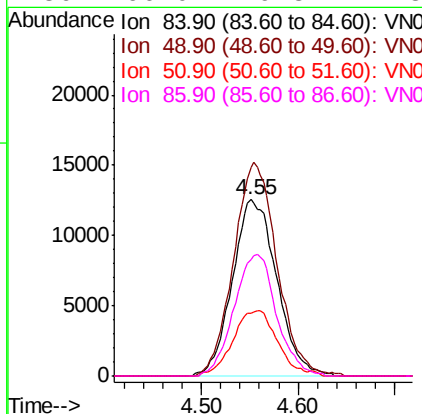
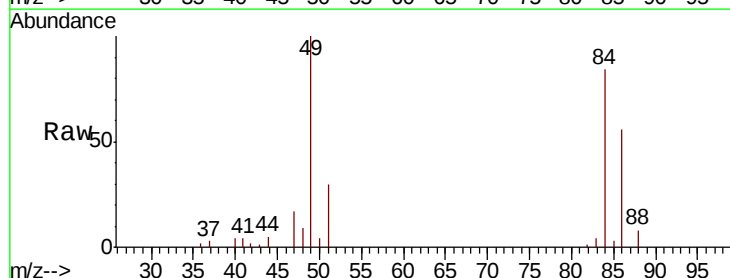
Instrument :
MSVOA_N
ClientSampleId :
PB112510ZHE#02

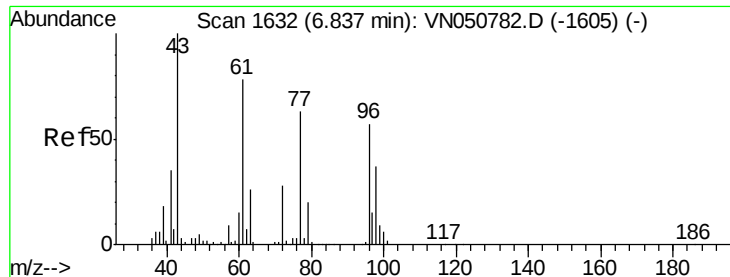
Tot Ion: 43 Resp: 13939
Ion Ratio Lower Upper
43 100
74 21.7 19.8 29.8



#20
Methylene Chloride
Concen: 5.25 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050989.D
Acq: 31 Aug 2018 15:39

Tgt Ion: 84 Resp: 40023
Ion Ratio Lower Upper
84 100
49 118.6 93.2 139.8
51 35.8 29.0 43.6
86 66.0 49.8 74.8





#25

2-Butanone

Concen: 0.62 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

Instrument :

MSVOA_N

ClientSampleId :

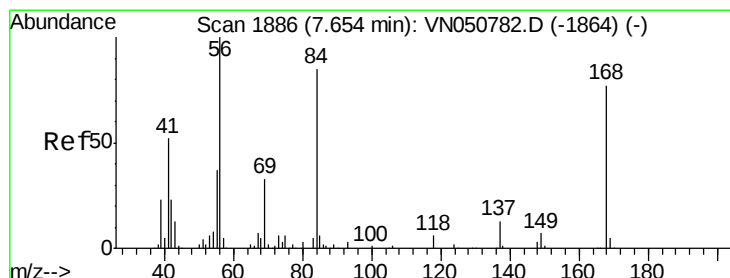
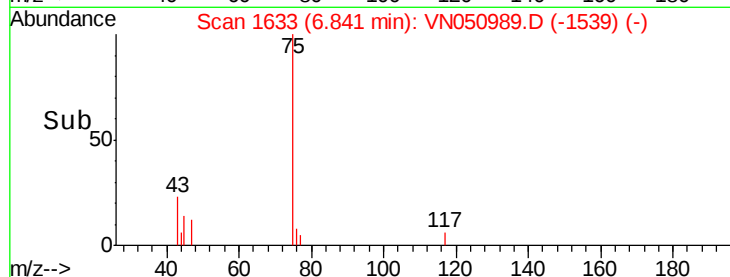
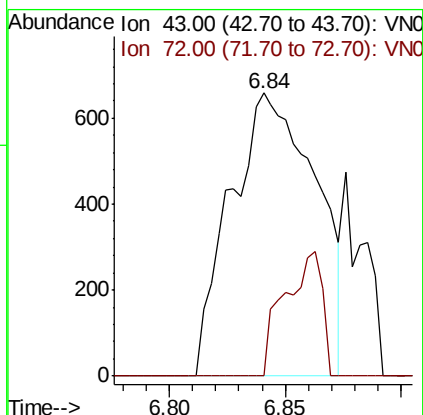
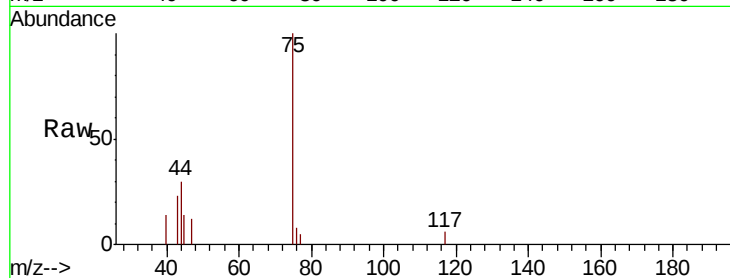
PB112510ZHE#02

Tot Ion: 43 Resp: 1689

Ion Ratio Lower Upper

43 100

72 0.0 22.3 33.5#



#31

Cyclohexane

Concen: 1.28 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

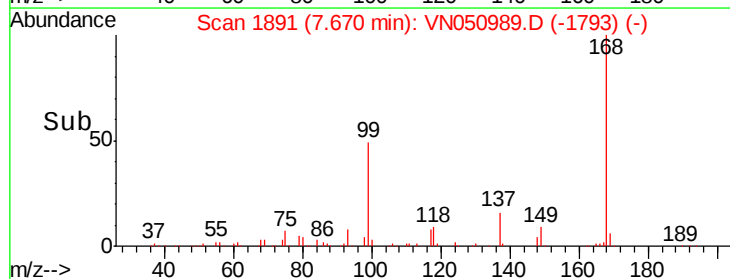
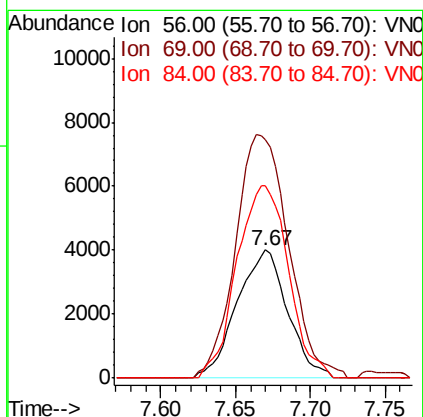
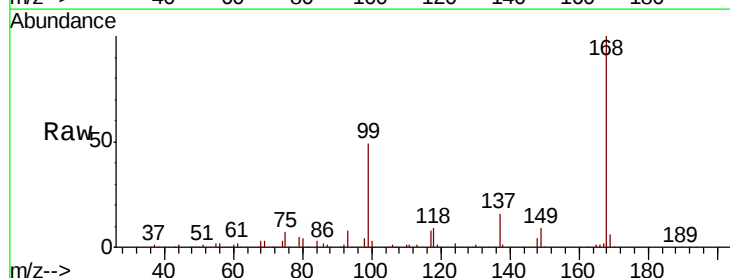
Tgt Ion: 56 Resp: 9420

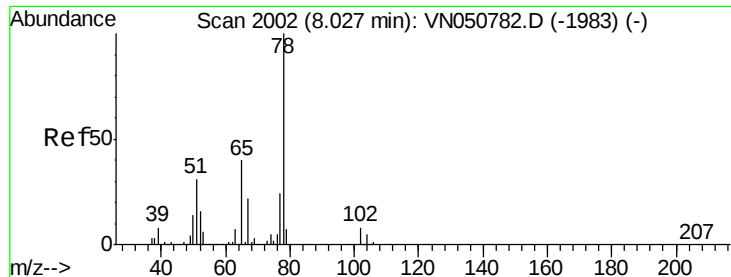
Ion Ratio Lower Upper

56 100

69 186.2 26.2 39.4#

84 150.0 68.3 102.5#

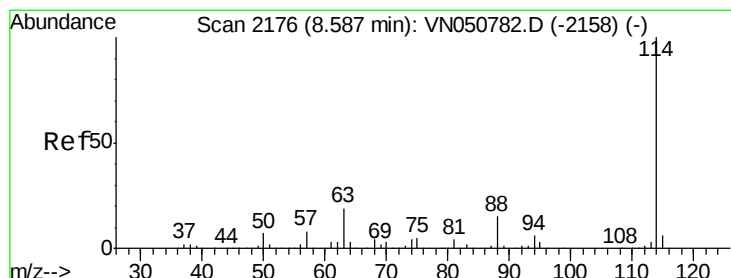
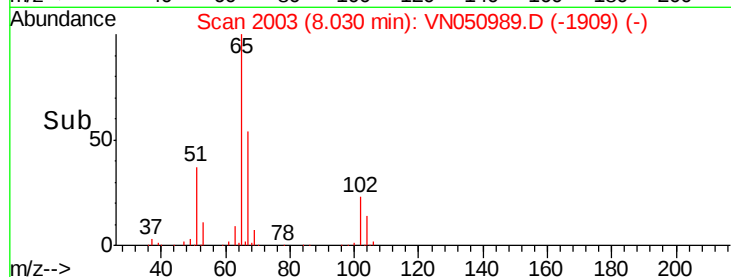
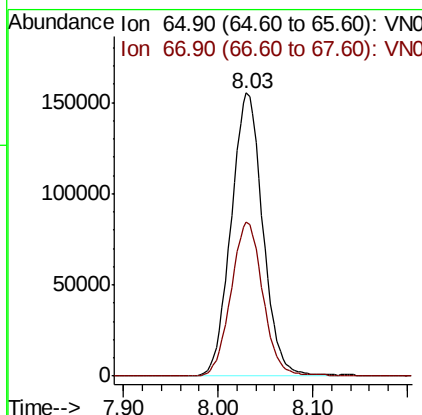
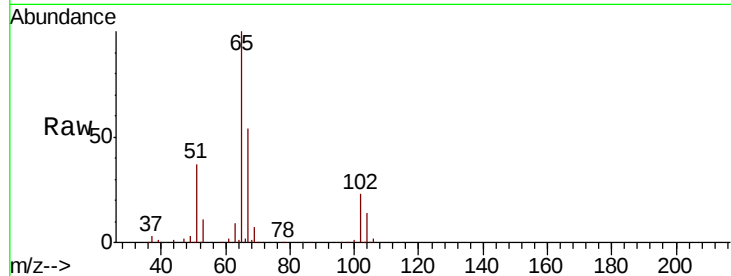




#33
 1,2-Dichloroethane-d4
 Concen: 53.46 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050989.D
 Acq: 31 Aug 2018 15:39

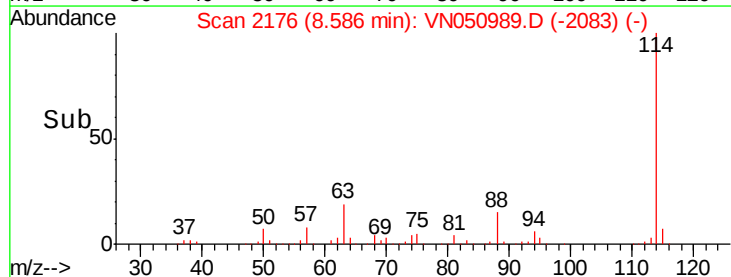
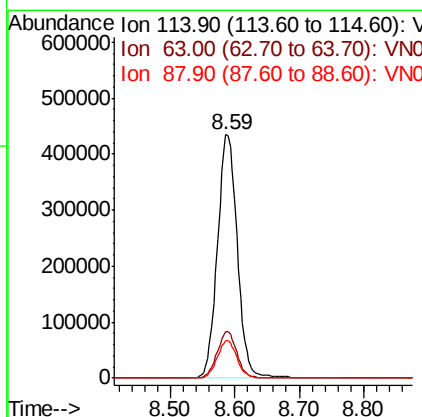
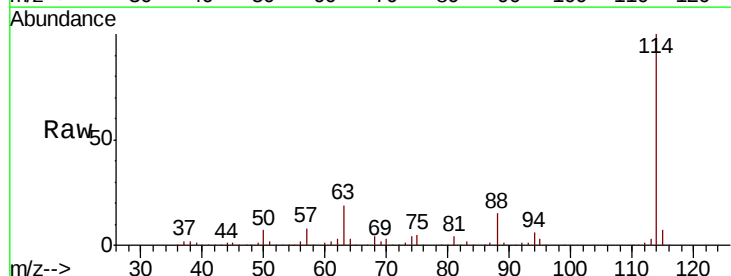
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112510ZHE#02

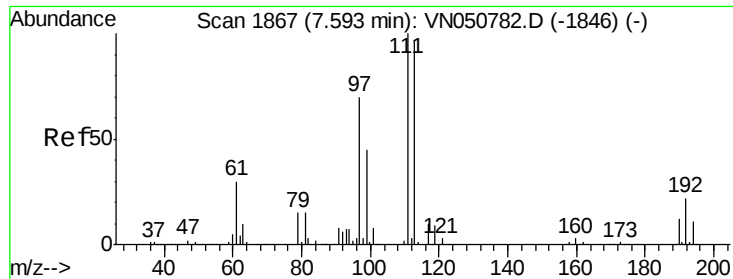
Tot Ion: 65 Resp: 361942
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050989.D
 Acq: 31 Aug 2018 15:39

Tgt Ion: 114 Resp: 931063
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.6
 88 15.2 0.0 30.6

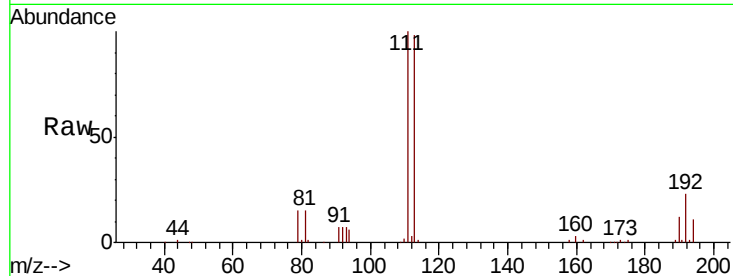




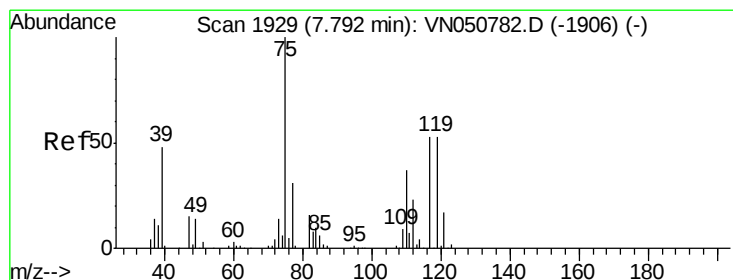
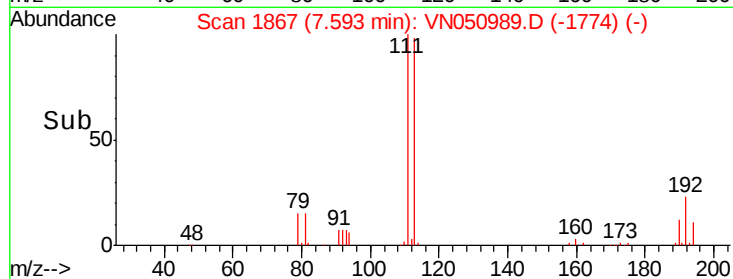
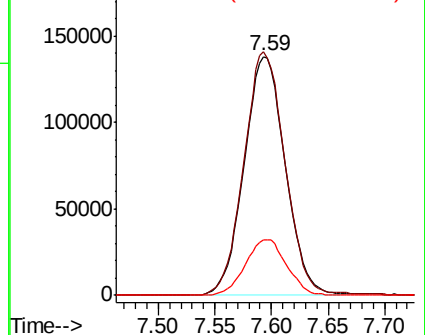
#35
 Dibromofluoromethane
 Concen: 47.23 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050989.D
 Acq: 31 Aug 2018 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112510ZHE#02

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	23.4	18.0	27.0

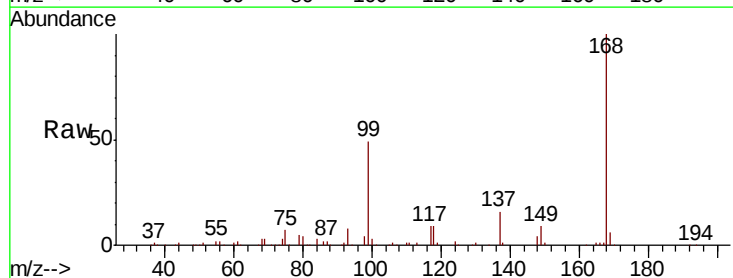


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

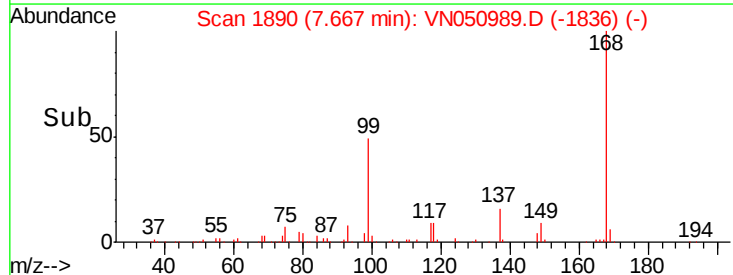
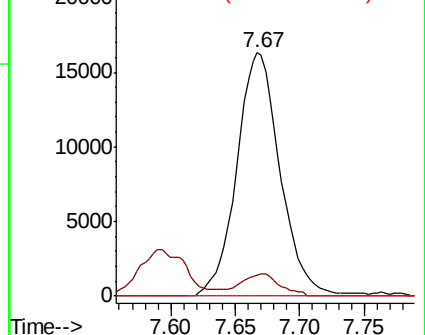


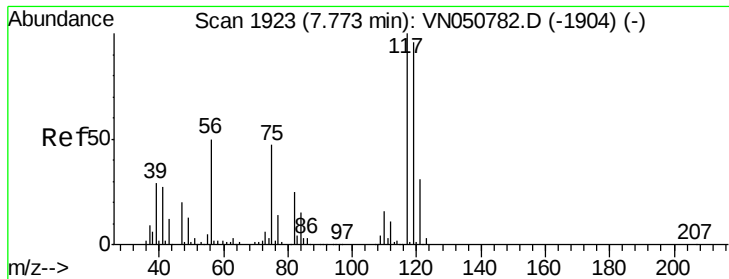
#36
 1,1-Dichloropropene
 Concen: 3.46 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050989.D
 Acq: 31 Aug 2018 15:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.1	54.4#
77	0.0	24.8	37.2#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

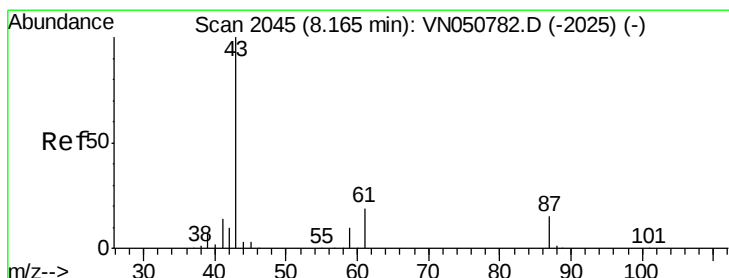
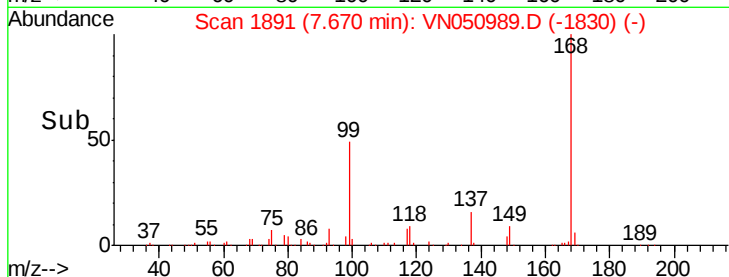
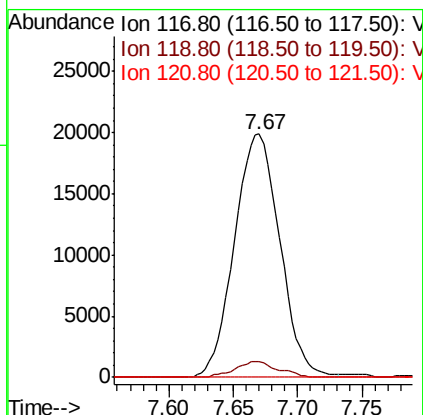
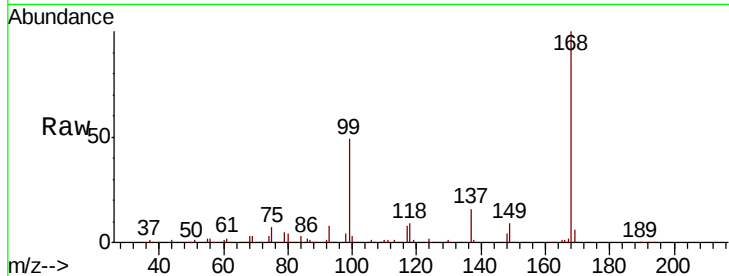




#38
Carbon Tetrachloride
Concen: 4.38 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.10 min
Lab File: VN050989.D
Acq: 31 Aug 2018 15:39

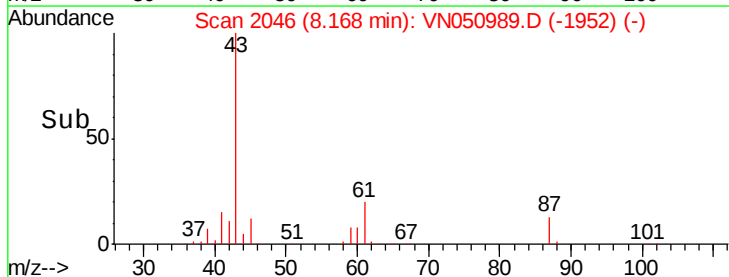
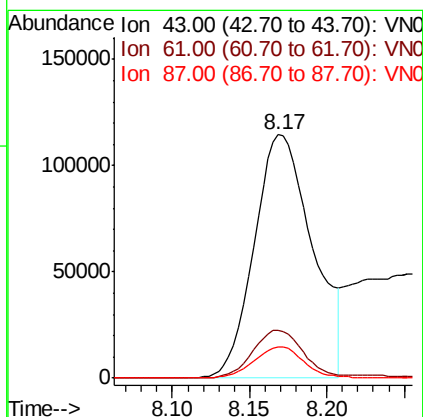
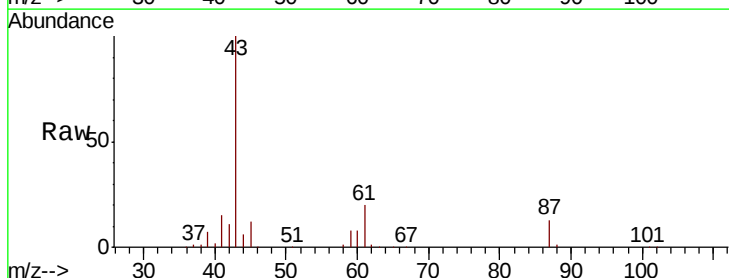
Instrument :
MSVOA_N
ClientSampleId :
PB112510ZHE#02

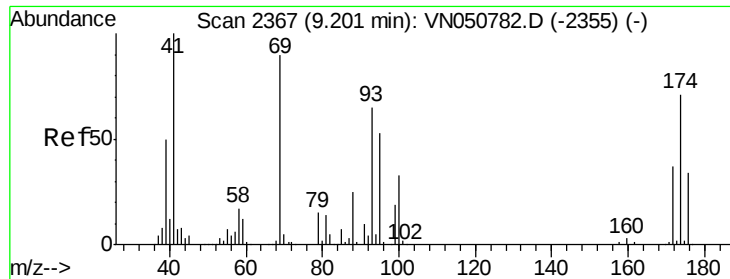
Tot Ion:117 Resp: 48665
Ion Ratio Lower Upper
117 100
119 6.4 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 27.79 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050989.D
Acq: 31 Aug 2018 15:39

Tgt Ion: 43 Resp: 301535
Ion Ratio Lower Upper
43 100
61 17.3 17.5 26.3#
87 11.1 11.3 16.9#





#48

Methyl methacrylate

Concen: 1.29 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

Instrument :

MSVOA_N

ClientSampleId :

PB112510ZHE#02

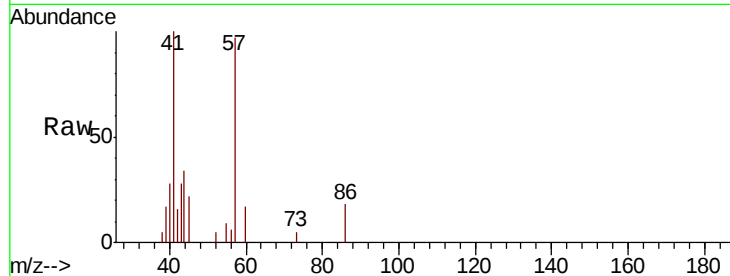
Tot Ion: 41 Resp: 7121

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

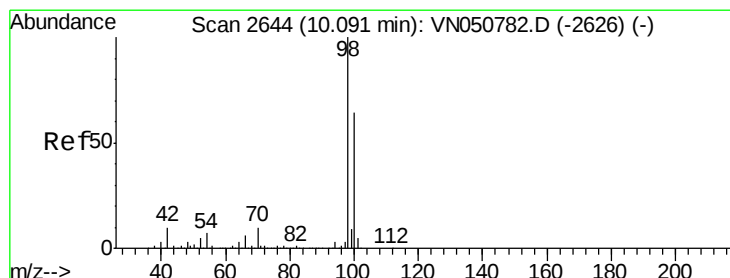
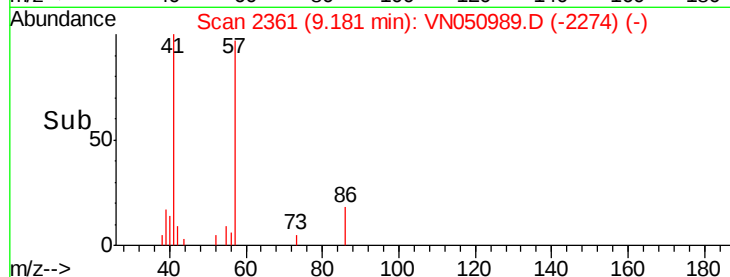
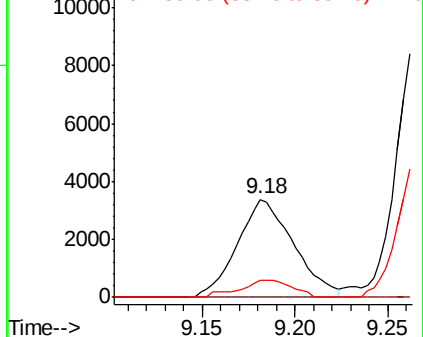
39 16.2 42.2 63.2#



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: 44.63 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050989.D

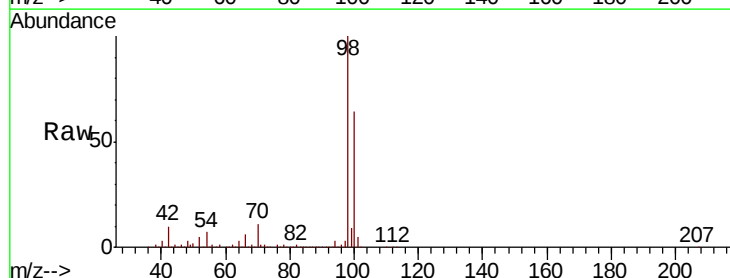
Acq: 31 Aug 2018 15:39

Tgt Ion: 98 Resp: 1235886

Ion Ratio Lower Upper

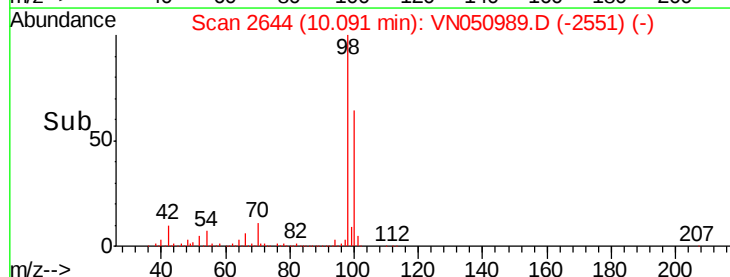
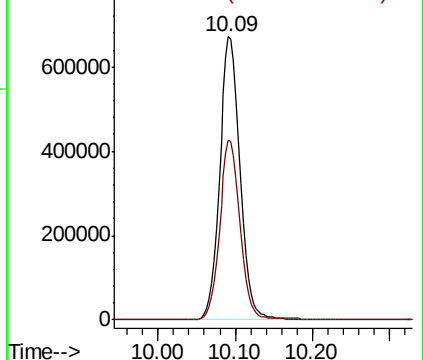
98 100

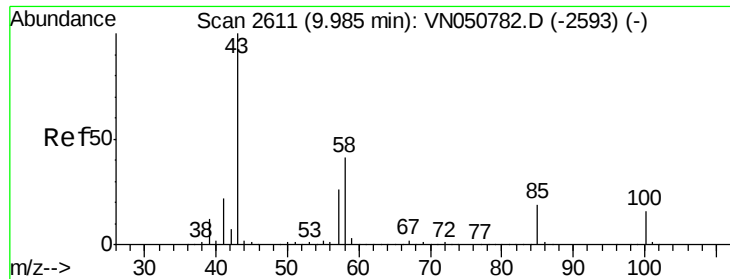
100 63.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

Instrument :

MSVOA_N

ClientSampleId :

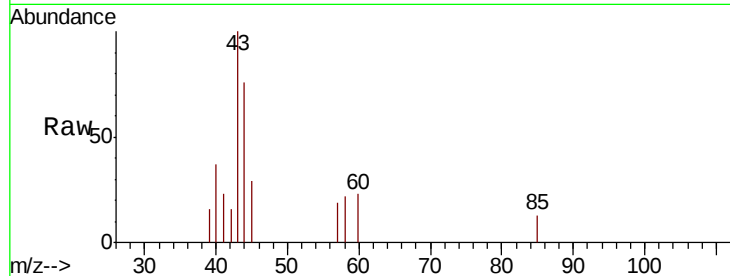
PB112510ZHE#02

Tot Ion: 43 Resp: 1446

Ion Ratio Lower Upper

43 100

58 32.7 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2593) (-)

Ion 58.00 (57.70 to 58.70): VN050782.D (-2593) (-)

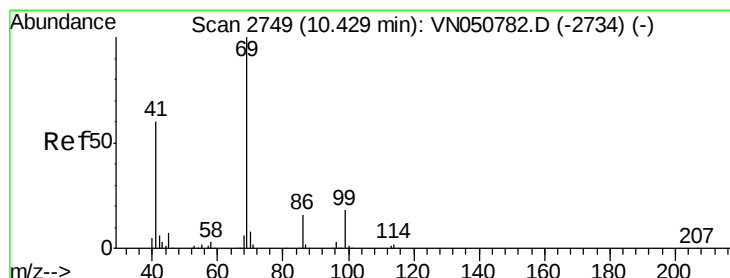
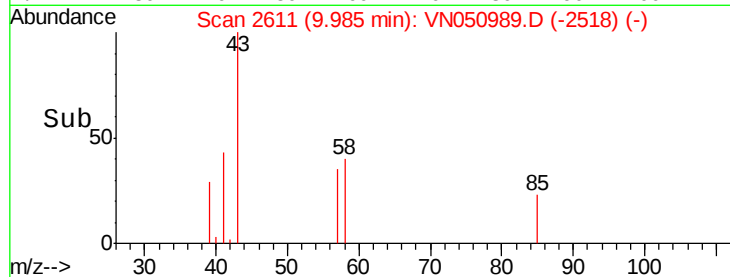
1000

500

0

9.95 9.99 10.00

Time-->



#56

Ethyl methacrylate

Concen: 2.57 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

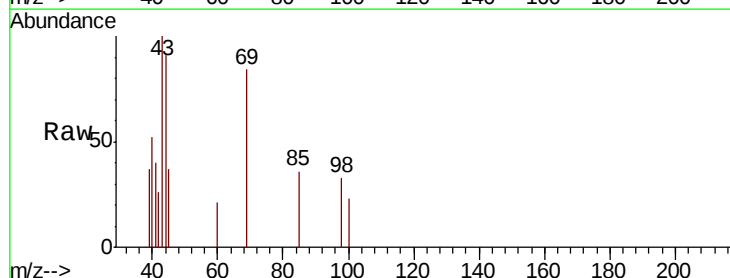
Tgt Ion: 69 Resp: 2141

Ion Ratio Lower Upper

69 100

41 24.5 48.3 72.5#

39 19.0 24.0 36.0#



Abundance Ion 69.00 (68.70 to 69.70): VN050782.D (-2734) (-)

Ion 41.00 (40.70 to 41.70): VN050782.D (-2734) (-)

Ion 39.00 (38.70 to 39.70): VN050782.D (-2734) (-)

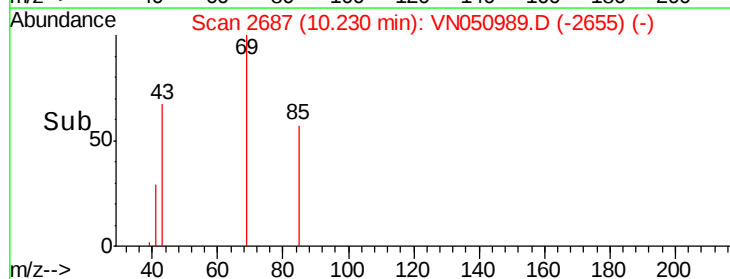
1000

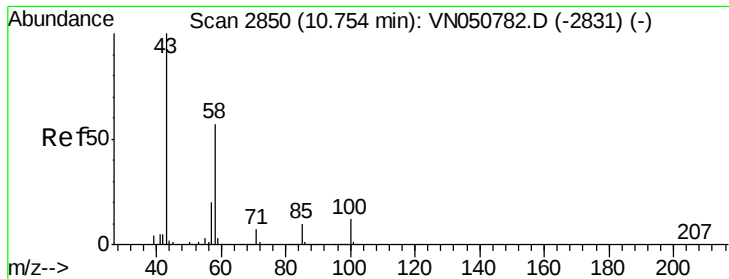
500

0

10.20 10.23 10.25

Time-->





#59

2-Hexanone

Concen: 3.45 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

Instrument :

MSVOA_N

ClientSampleId :

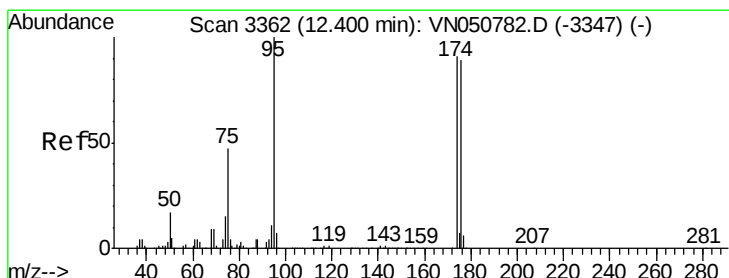
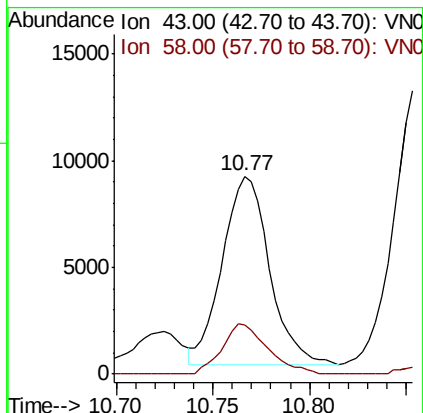
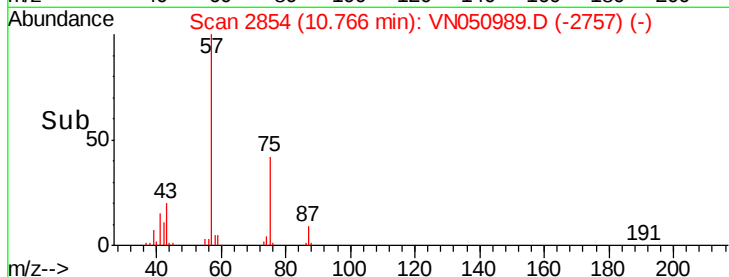
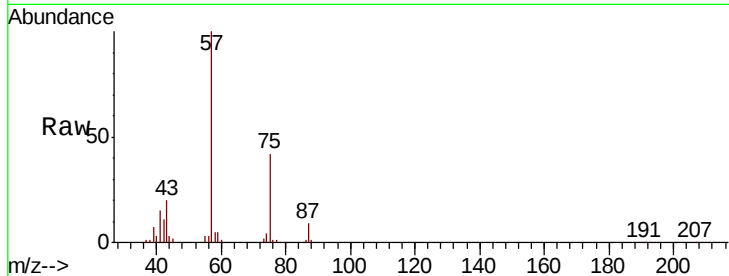
PB112510ZHE#02

Tot Ion: 43 Resp: 14884

Ion Ratio Lower Upper

43 100

58 25.9 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 35.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

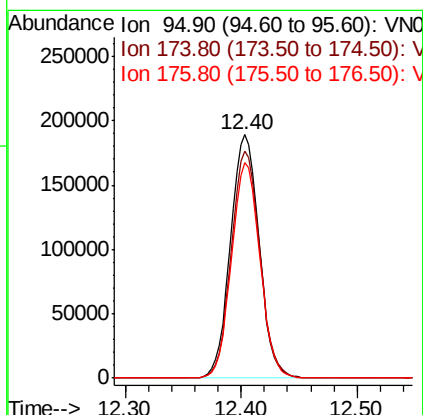
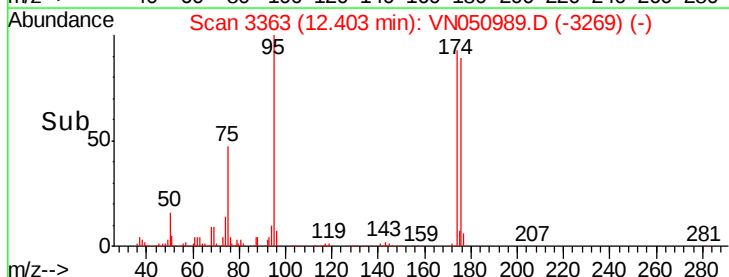
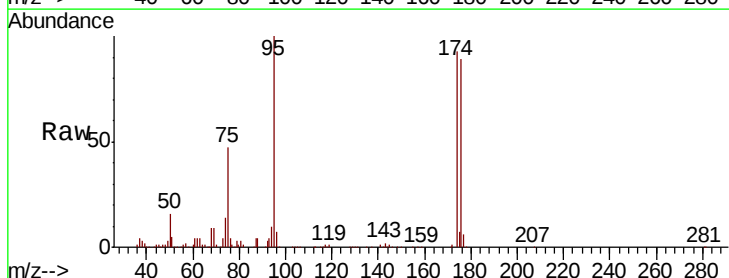
Tgt Ion: 95 Resp: 322692

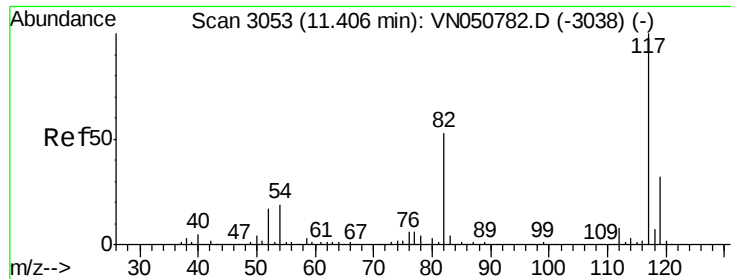
Ion Ratio Lower Upper

95 100

174 93.3 0.0 183.0

176 87.8 0.0 178.8

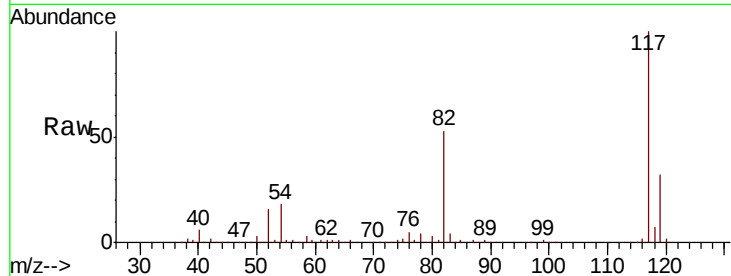




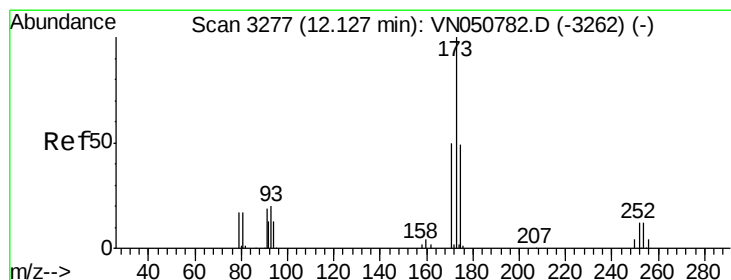
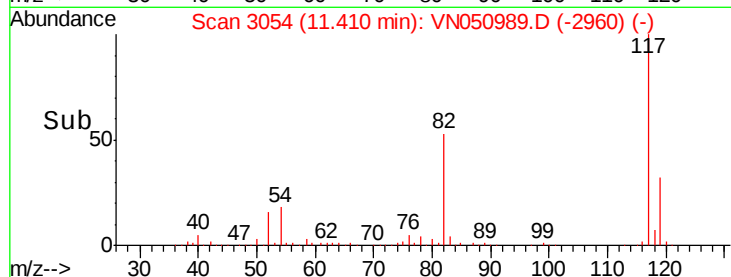
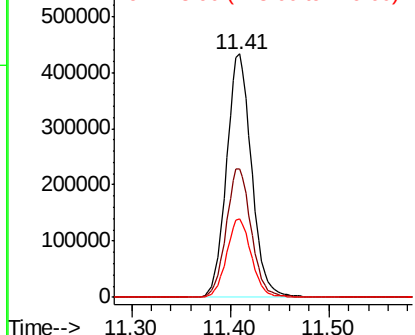
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050989.D
Acq: 31 Aug 2018 15:39

Instrument :
MSVOA_N
ClientSampleId :
PB112510ZHE#02

Tot Ion:117 Resp: 769907
Ion Ratio Lower Upper
117 100
82 53.0 42.6 64.0
119 32.2 25.8 38.6

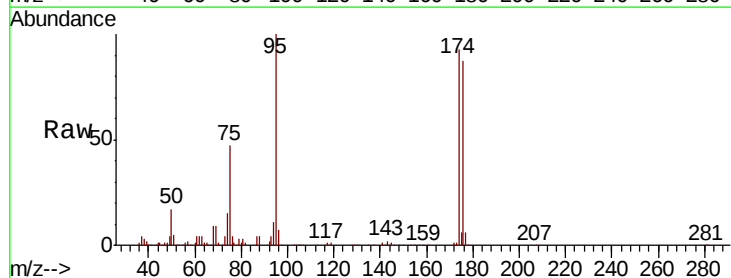


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

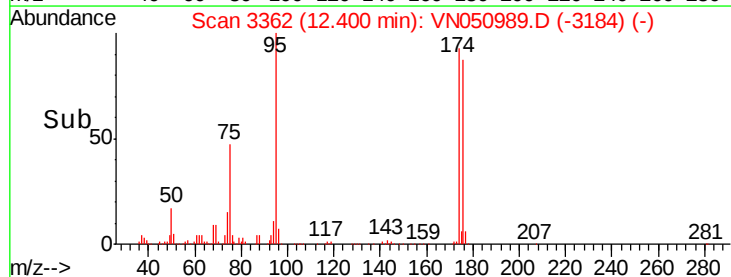
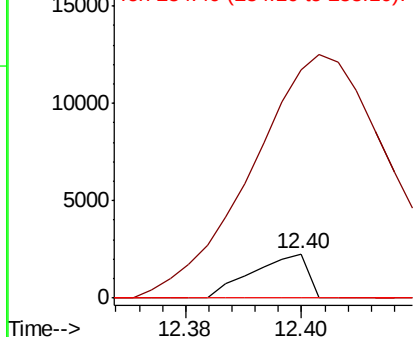


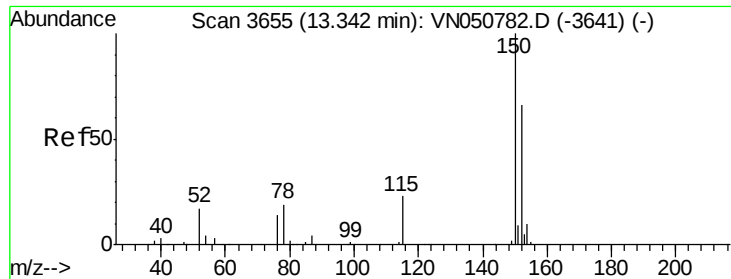
#71
Bromoform
Concen: 0.29 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050989.D
Acq: 31 Aug 2018 15:39

Tgt Ion:173 Resp: 1485
Ion Ratio Lower Upper
173 100
175 1163.8 24.4 73.4#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

Instrument :

MSVOA_N

ClientSampleId :

PB112510ZHE#02

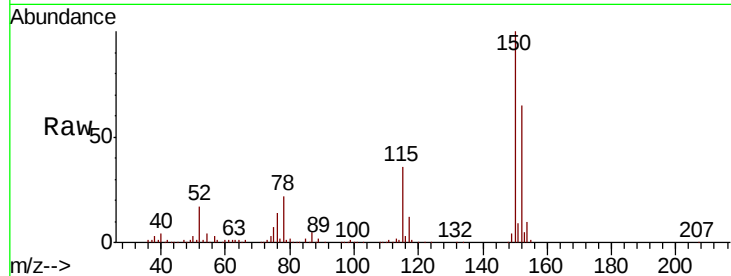
Tot Ion:152 Resp: 242818

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

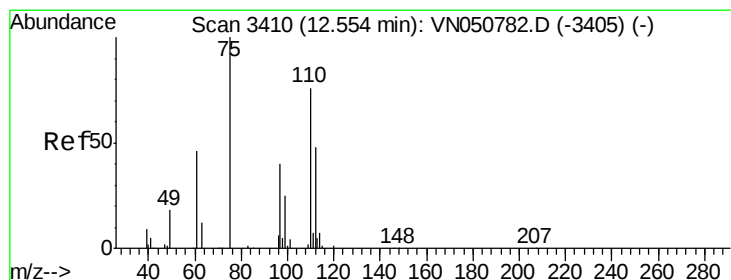
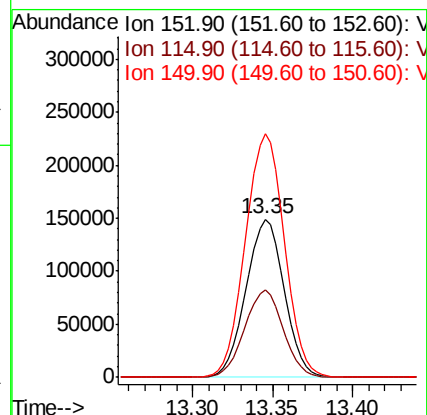
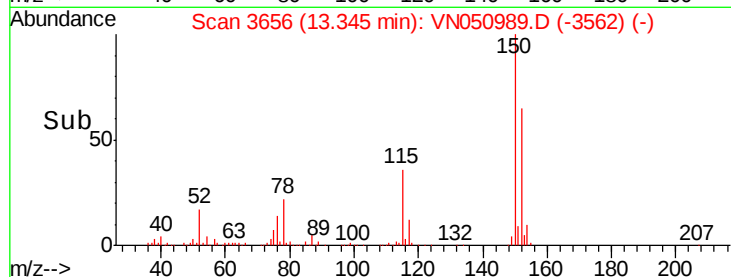
150 157.4 0.0 351.4



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



#76

1,2,3-Trichloropropane

Concen: 35.32 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050989.D

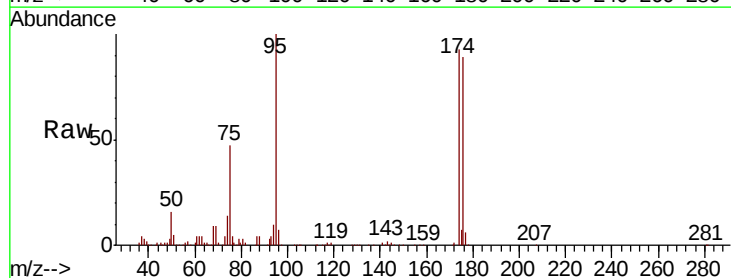
Acq: 31 Aug 2018 15:39

Tgt Ion: 75 Resp: 150211

Ion Ratio Lower Upper

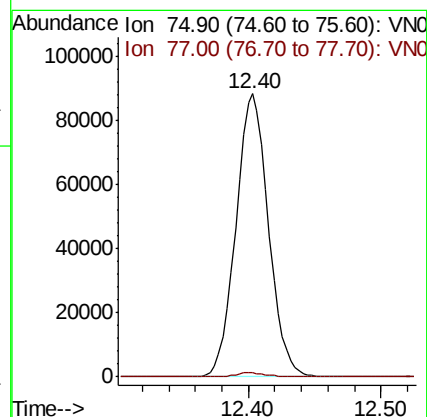
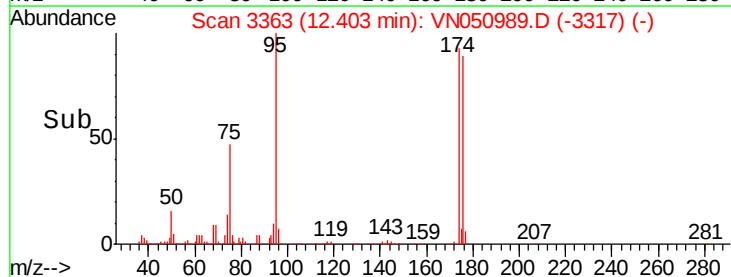
75 100

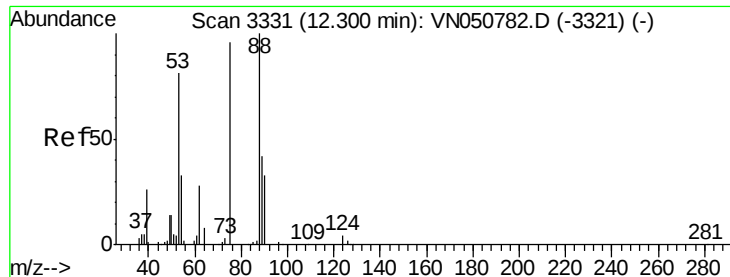
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

Instrument :

MSVOA_N

ClientSampleId :

PB112510ZHE#02

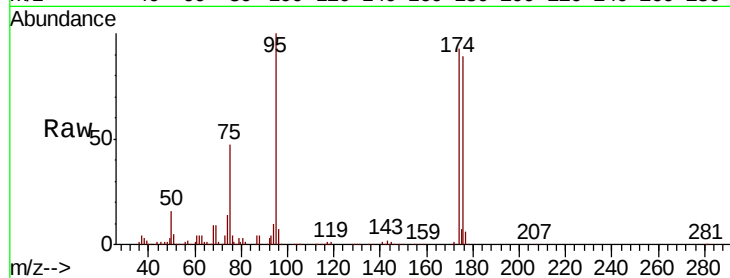
Tot Ion: 75 Resp: 150211

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

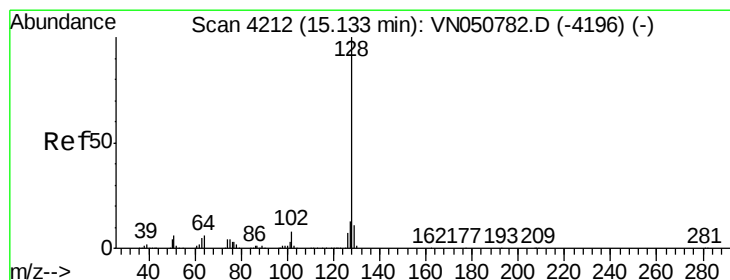
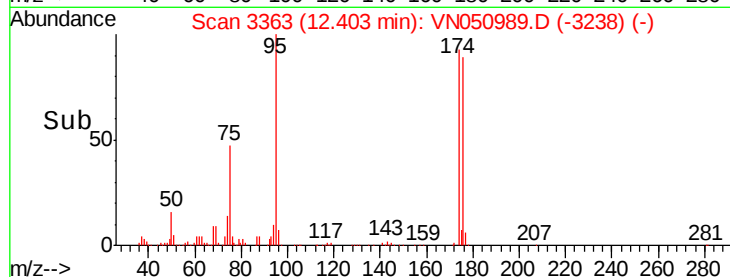
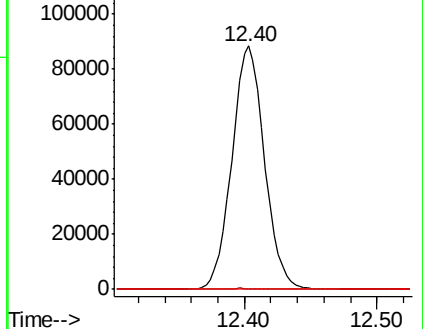
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN050989.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN050989.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN050989.D (-3363) (-)



#95

Naphthalene

Concen: 5.41 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN050989.D

Acq: 31 Aug 2018 15:39

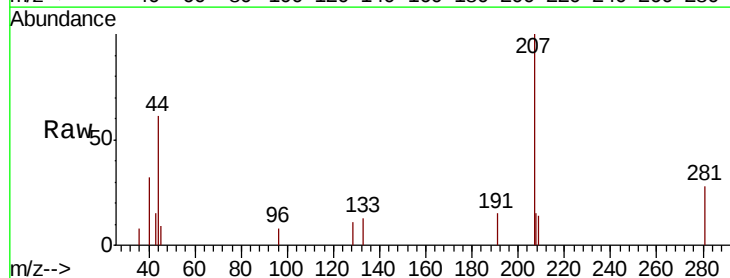
Tgt Ion: 128 Resp: 107

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN050989.D (-4215) (-)

Ion 127.00 (126.70 to 127.70): VN050989.D (-4215) (-)

Ion 129.00 (128.70 to 129.70): VN050989.D (-4215) (-)

