

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050519.D
 Acq On : 10 Aug 2018 15:47
 Operator : MD\SY
 Sample : PB111921TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921TB

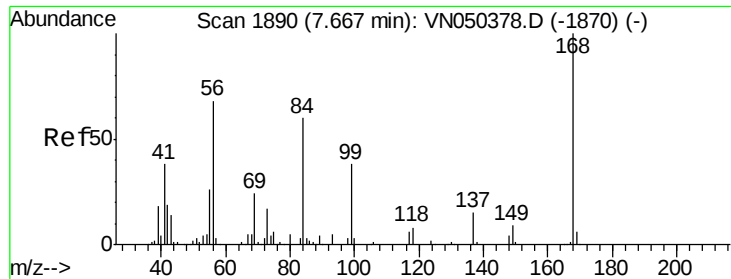
Quant Time: Aug 10 23:16:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	737404	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1207997	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1051376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	407623	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	495571	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
35) Dibromofluoromethane	7.59	113	462231	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	10.09	98	1648626	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	
62) 4-Bromofluorobenzene	12.40	95	479078	38.57	ug/l	0.00
Spiked Amount			Recovery	=	77.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3056	Below Cal	#	88
5) Bromomethane	2.57	94	4000	0.95	ug/l #	74
10) Methyl Iodide	3.95	142	806	0.22	ug/l #	78
13) Acrolein	3.61	56	93	15.11	ug/l #	15
16) Acetone	3.82	43	17360	5.56	ug/l	93
18) Methyl Acetate	4.33	43	9680	1.08	ug/l	100
20) Methylene Chloride	4.55	84	21432	0.86	ug/l	98
25) 2-Butanone	6.85	43	2370	0.49	ug/l	93
29) Tetrahydrofuran	7.21	42	678	0.26	ug/l #	61
31) Cyclohexane	7.67	56	13401	0.32	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	50932	3.84	ug/l #	48
37) Ethyl Acetate	6.85	43	2370	0.25	ug/l #	78
38) Carbon Tetrachloride	7.67	117	66608	4.81	ug/l #	16
43) Isopropyl Acetate	8.17	43	272148	16.49	ug/l	98
48) Methyl methacrylate	9.18	41	8252	1.00	ug/l #	21
56) Ethyl methacrylate	10.64	69	543	1.75	ug/l #	1
59) 2-Hexanone	10.77	43	21610	2.61	ug/l #	59
71) Bromoform	12.40	173	3768	0.54	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	230418	31.23	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5369	0.22	ug/l	86
81) trans-1,4-Dichloro-2-buten	12.40	75	230418	109.72	ug/l #	13
95) Naphthalene	15.13	128	348	3.64	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

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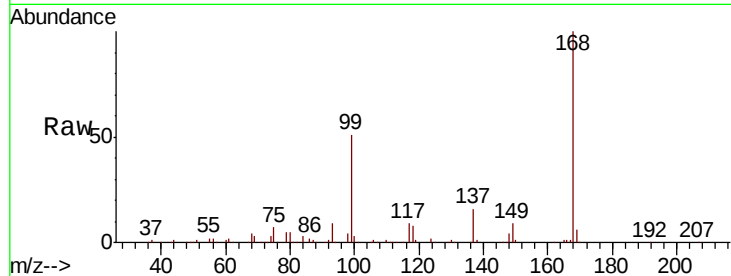
PB111921TB

Tot Ion:168 Resp: 737404

Ion Ratio Lower Upper

168 100

99 50.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

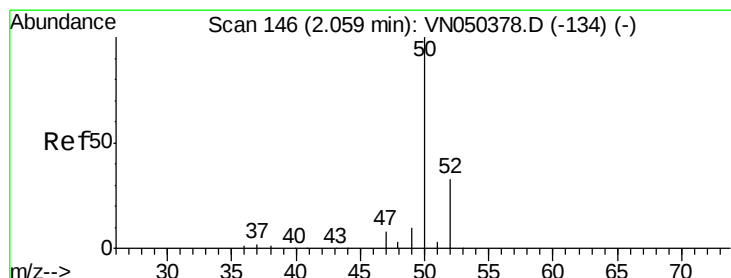
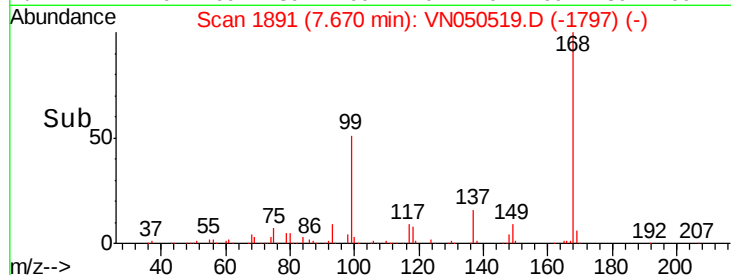
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050519.D

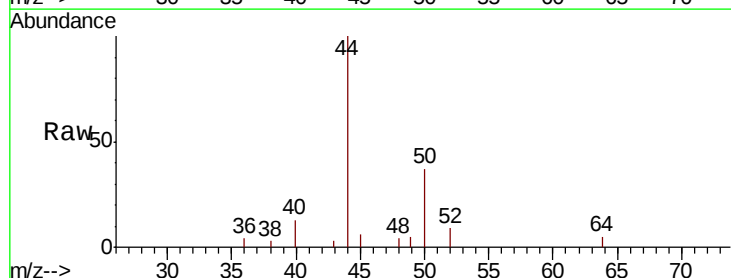
Acq: 10 Aug 2018 15:47

Tgt Ion: 50 Resp: 3056

Ion Ratio Lower Upper

50 100

52 25.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

2500

2000

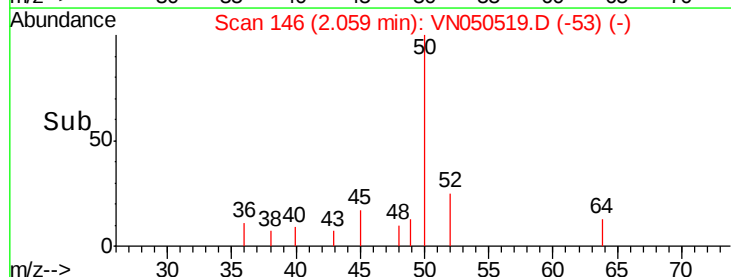
1500

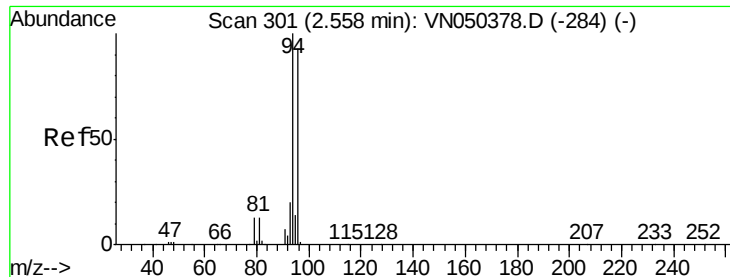
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.95 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

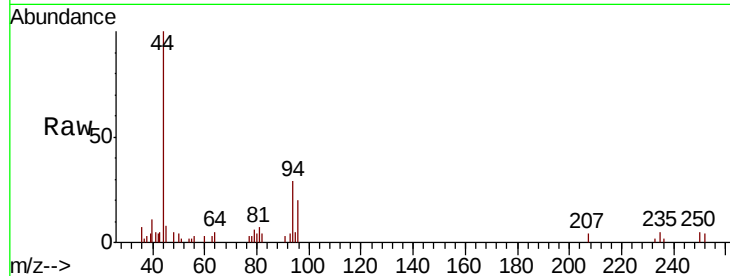
PB111921TB

Tot Ion: 94 Resp: 4000

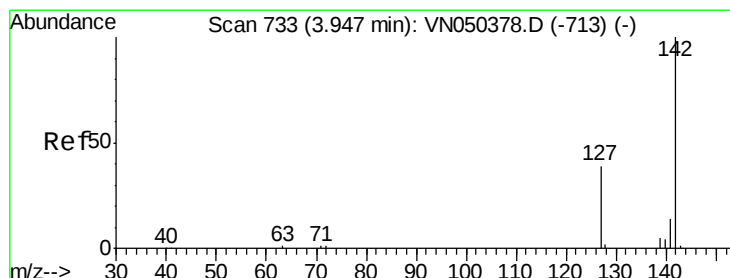
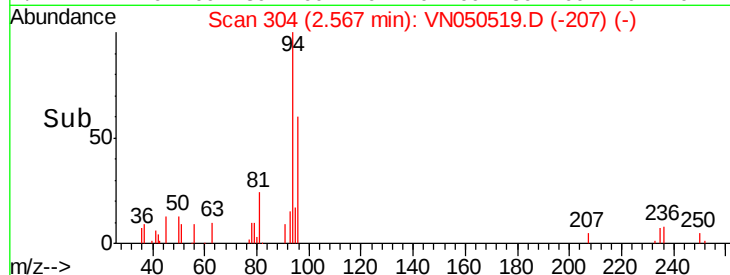
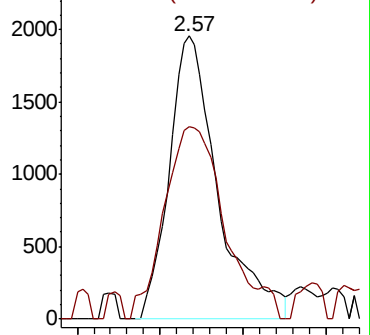
Ion Ratio Lower Upper

94 100

96 67.8 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050519.D (-207) (-)



#10

Methyl Iodide

Concen: 0.22 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

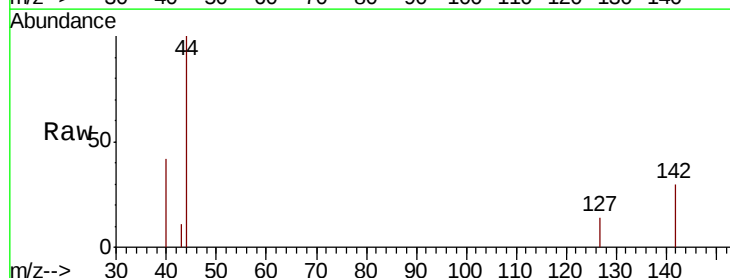
Tgt Ion: 142 Resp: 806

Ion Ratio Lower Upper

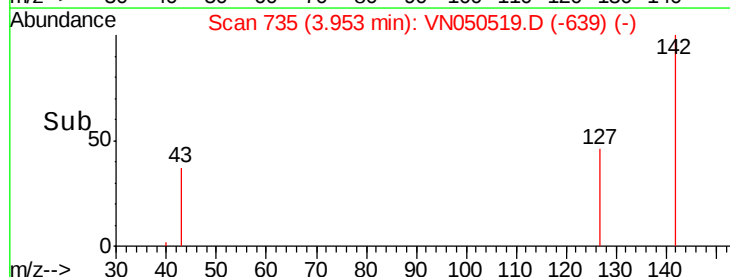
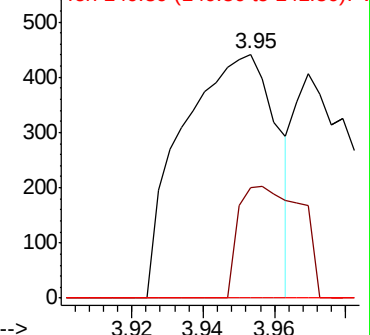
142 100

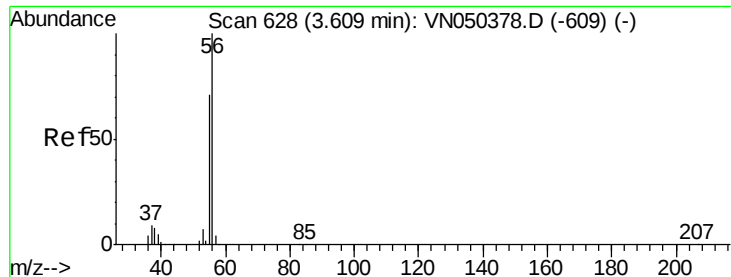
127 30.5 33.4 50.2#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VN050519.D (-639) (-)





#13

Acrolein

Concen: 15.11 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

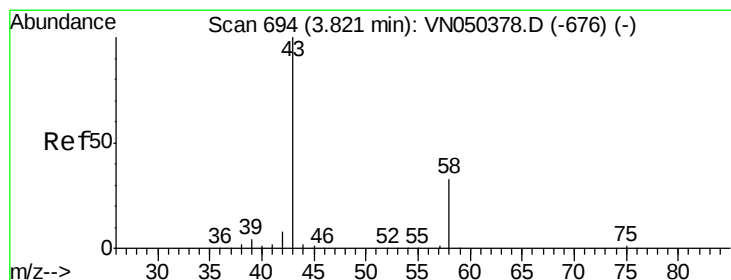
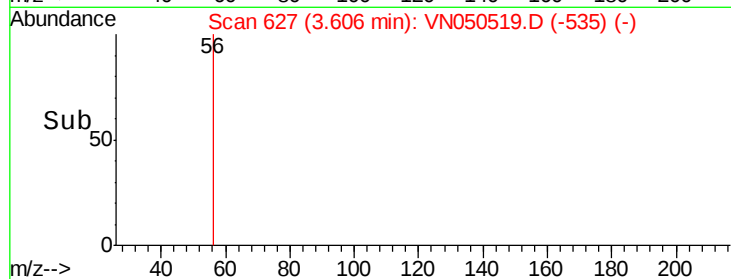
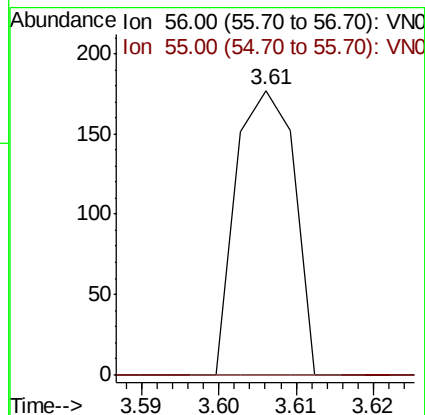
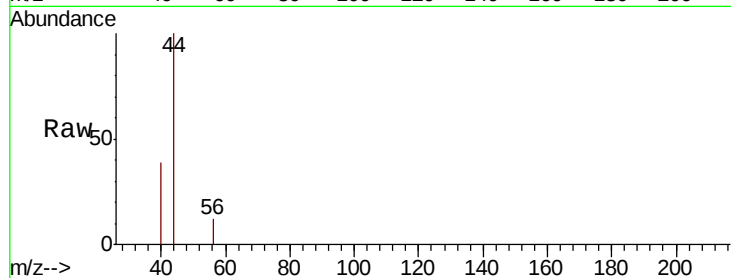
PB111921TB

Tot Ion: 56 Resp: 93

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



#16

Acetone

Concen: 5.56 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050519.D

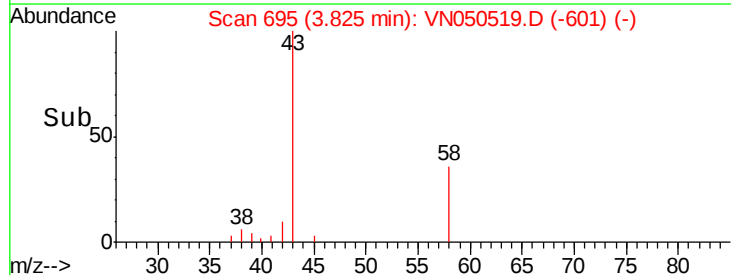
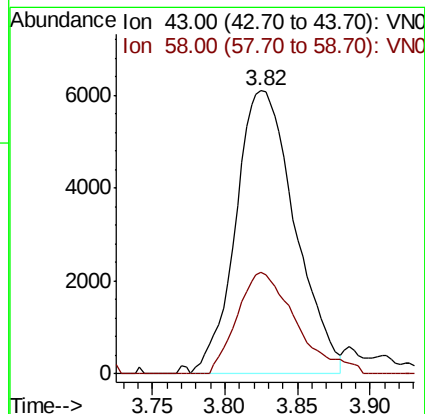
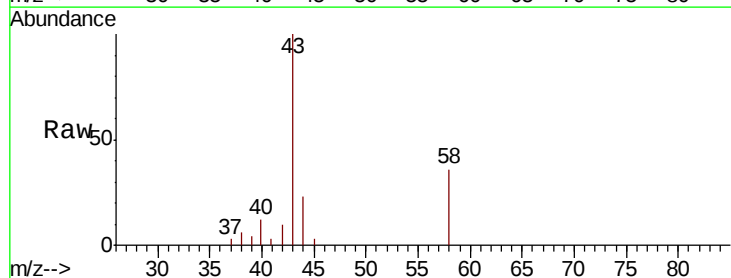
Acq: 10 Aug 2018 15:47

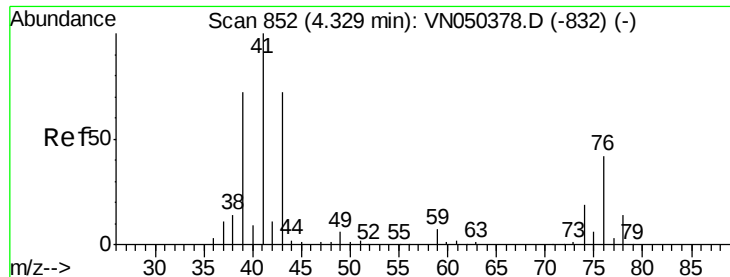
Tgt Ion: 43 Resp: 17360

Ion Ratio Lower Upper

43 100

58 36.0 25.8 38.8

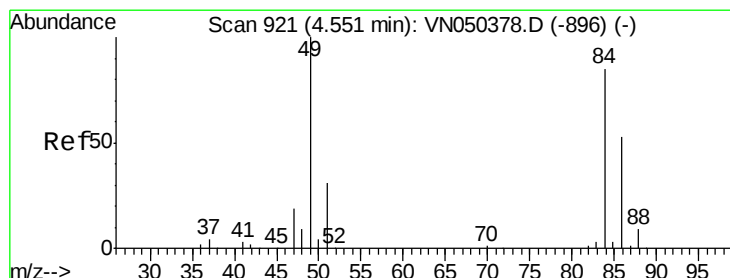
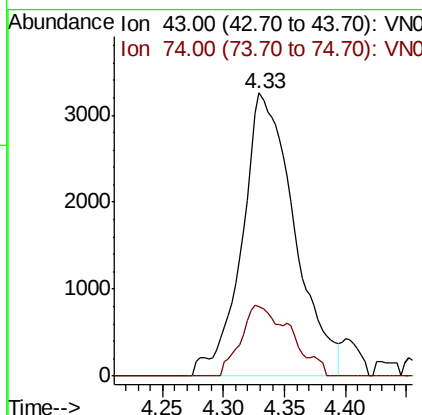
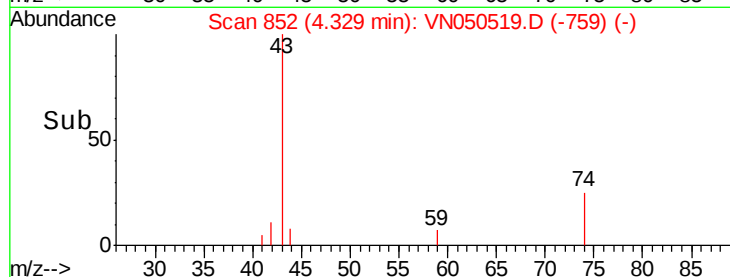
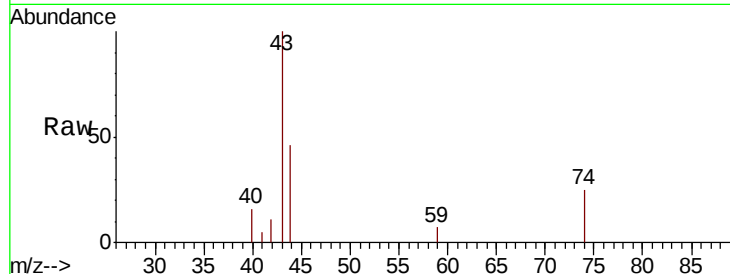




#18
Methyl Acetate
Concen: 1.08 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050519.D
Acq: 10 Aug 2018 15:47

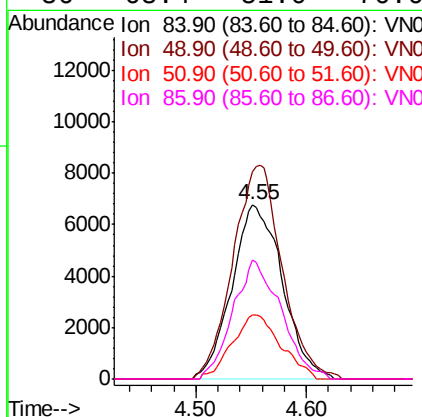
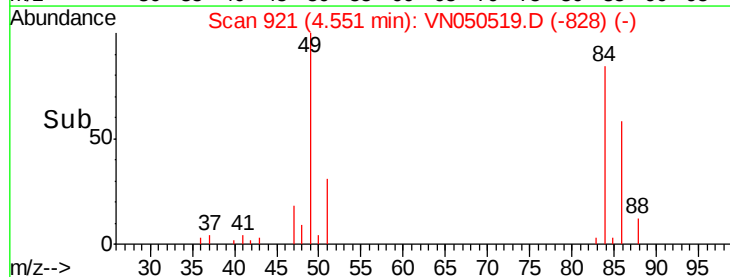
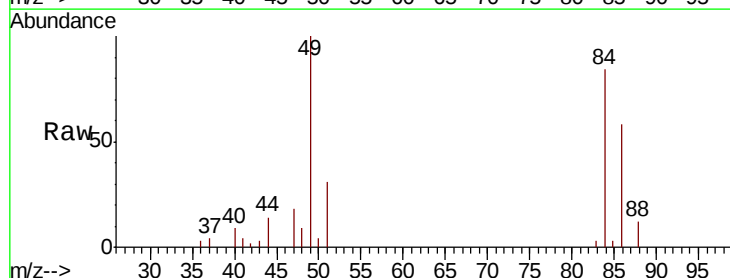
Instrument :
MSVOA_N
ClientSampleId :
PB111921TB

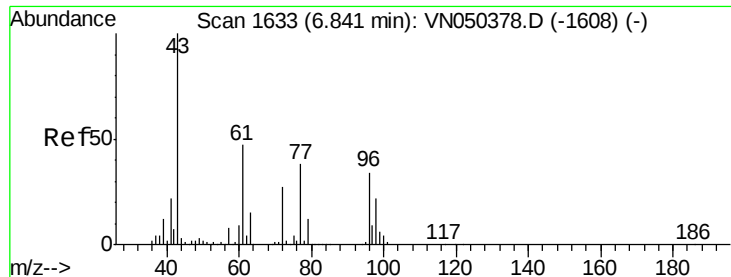
Tot Ion: 43 Resp: 9680
Ion Ratio Lower Upper
43 100
74 23.8 19.2 28.8



#20
Methylene Chloride
Concen: 0.86 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050519.D
Acq: 10 Aug 2018 15:47

Tgt Ion: 84 Resp: 21432
Ion Ratio Lower Upper
84 100
49 118.6 94.8 142.2
51 36.8 28.3 42.5
86 68.4 51.0 76.6





#25

2-Butanone

Concen: 0.49 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampled :

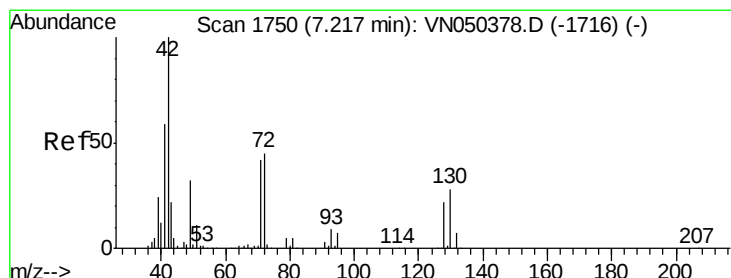
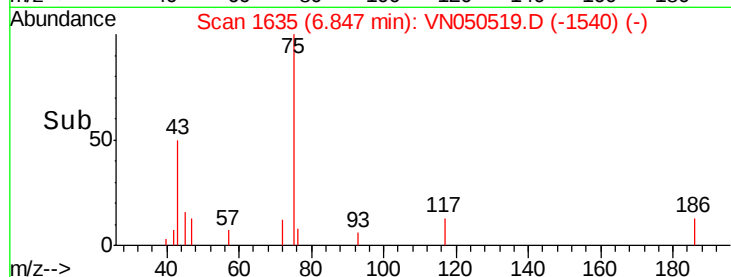
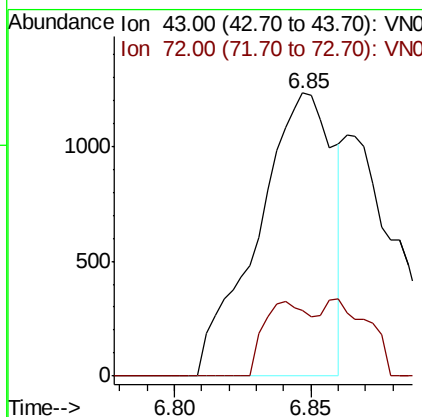
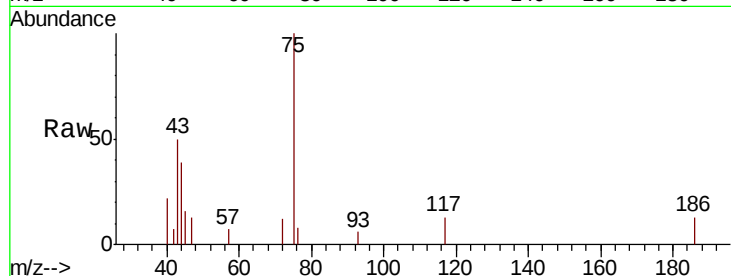
PB111921TB

Tot Ion: 43 Resp: 2370

Ion Ratio Lower Upper

43 100

72 23.2 21.5 32.3



#29

Tetrahydrofuran

Concen: 0.26 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

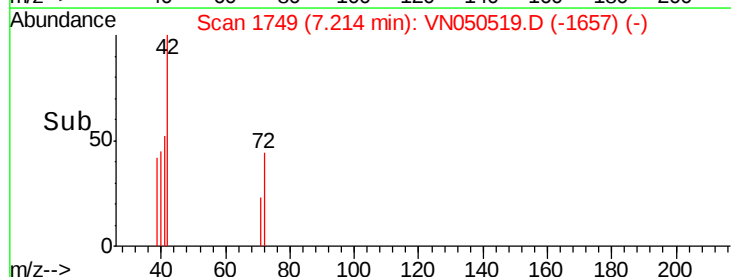
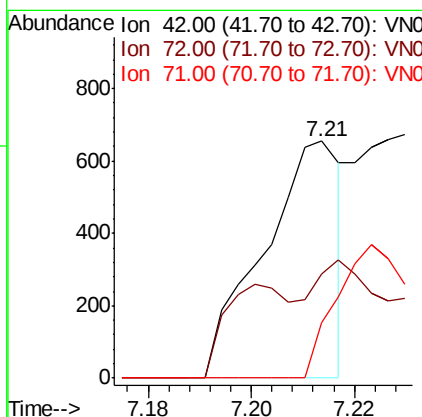
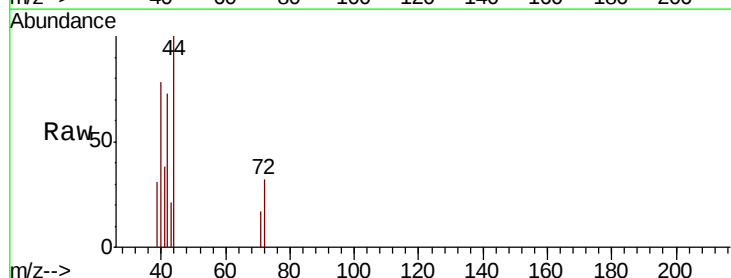
Tgt Ion: 42 Resp: 678

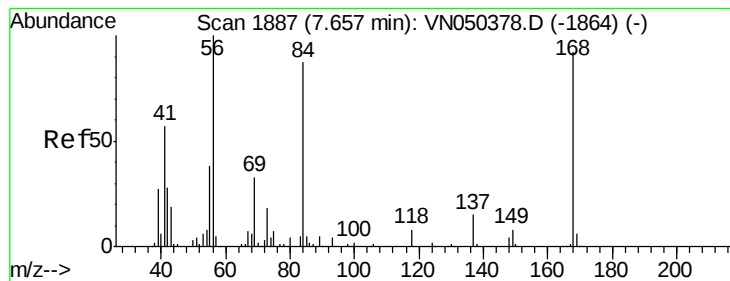
Ion Ratio Lower Upper

42 100

72 17.6 35.9 53.9#

71 64.9 33.7 50.5#





#31

Cvclohexane

Concen: 0.32 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB111921TB

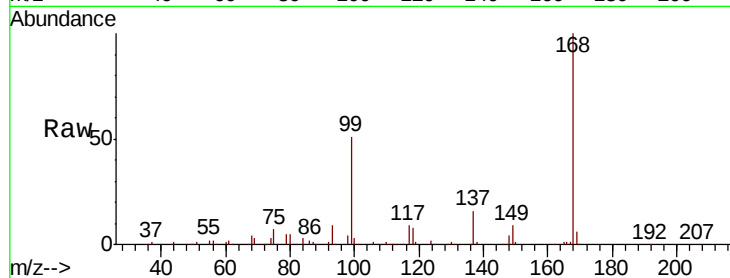
Tot Ion: 56 Resp: 13401

Ion Ratio Lower Upper

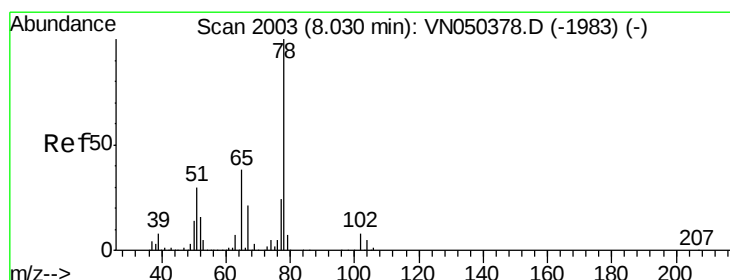
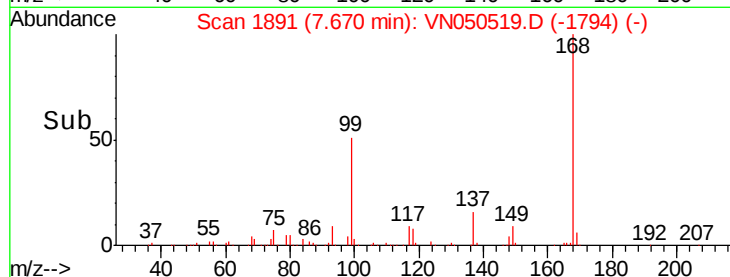
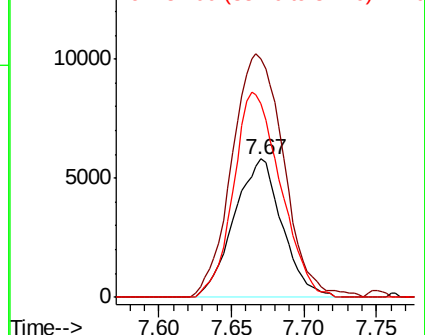
56 100

69 172.9 26.2 39.4#

84 140.2 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: 50.30 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050519.D

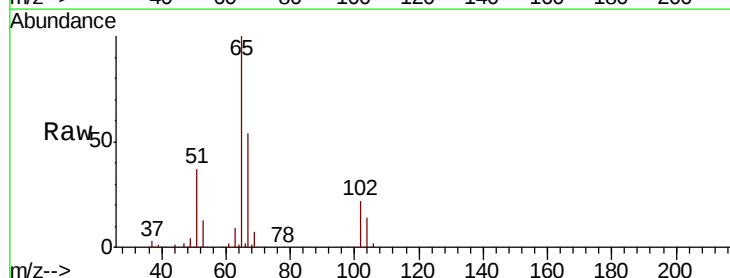
Acq: 10 Aug 2018 15:47

Tgt Ion: 65 Resp: 495571

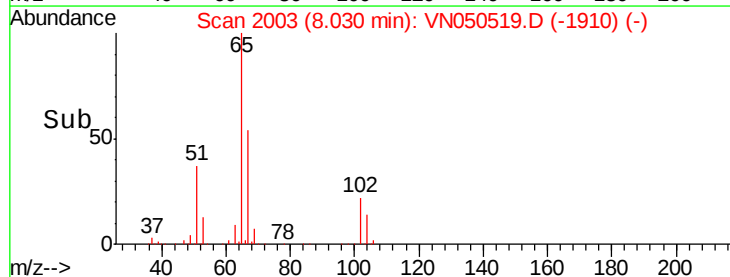
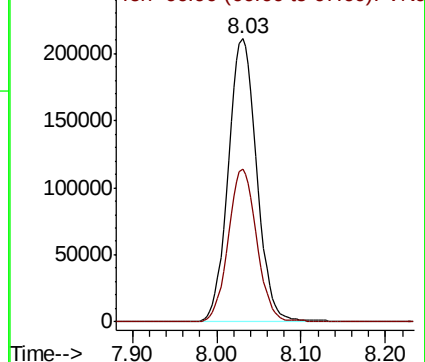
Ion Ratio Lower Upper

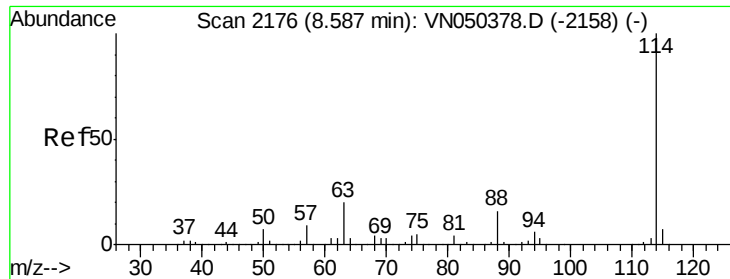
65 100

67 53.9 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

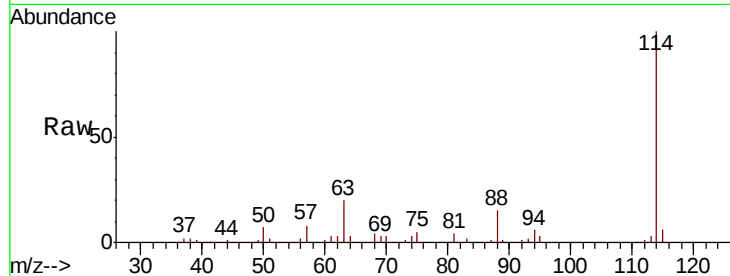




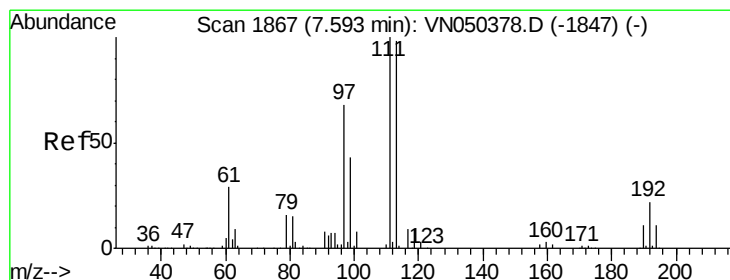
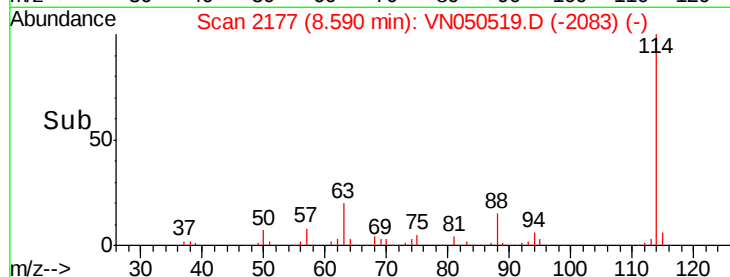
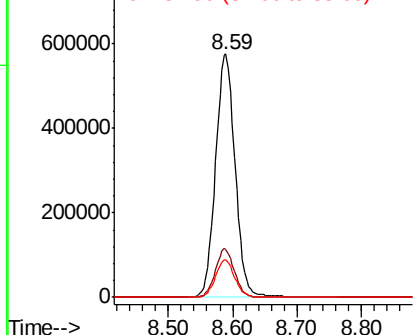
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050519.D
 Acq: 10 Aug 2018 15:47

Instrument :
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 PB111921TB

Tot Ion:114 Resp: 1207997
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.3 0.0 31.2

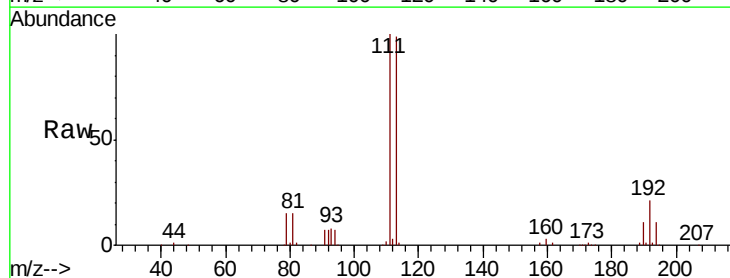


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

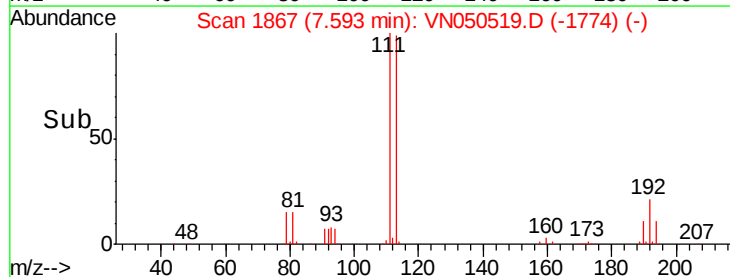
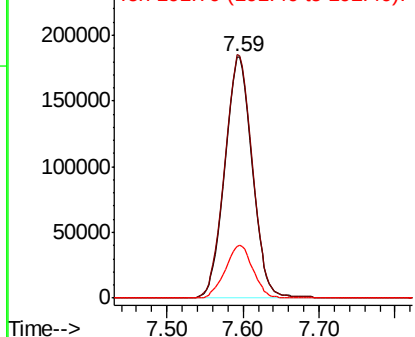


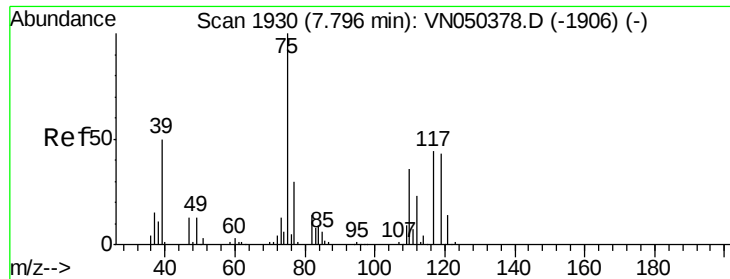
#35
 Dibromofluoromethane
 Concen: 47.69 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050519.D
 Acq: 10 Aug 2018 15:47

Tgt Ion:113 Resp: 462231
 Ion Ratio Lower Upper
 113 100
 111 101.7 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: 3.84 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB111921TB

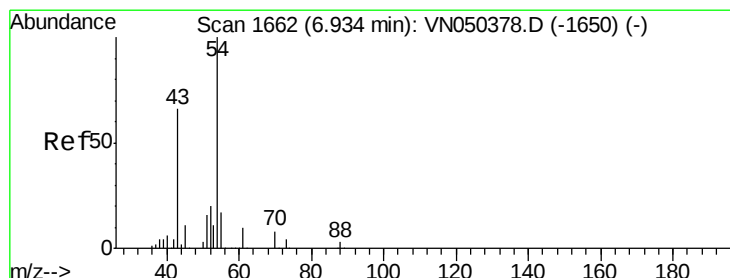
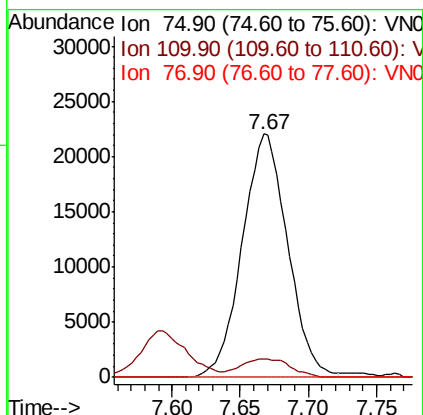
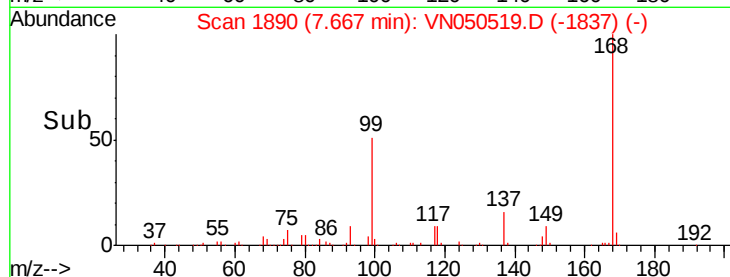
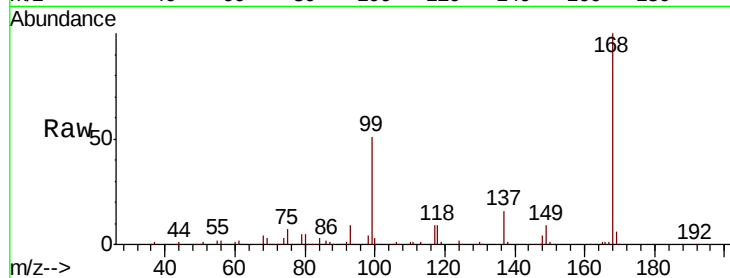
Tot Ion: 75 Resp: 50932

Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.2#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 0.25 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. -0.09 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

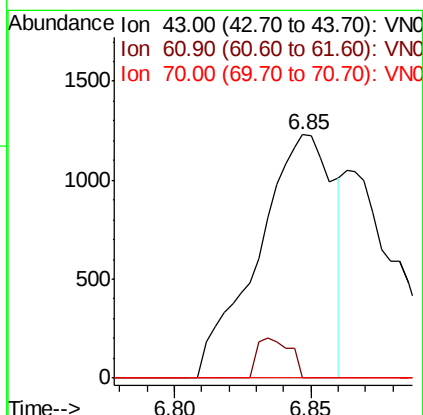
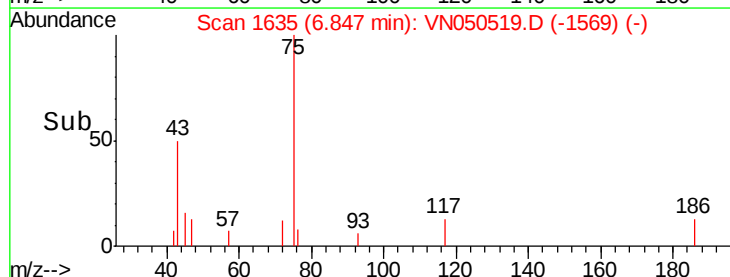
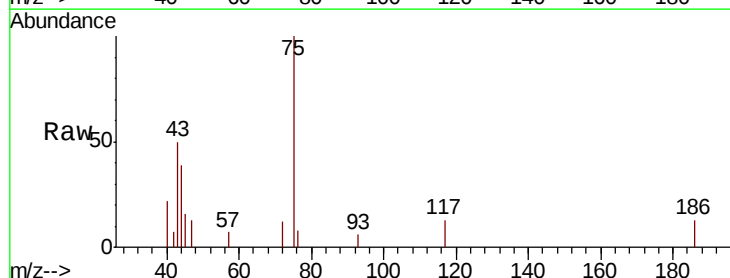
Tgt Ion: 43 Resp: 2370

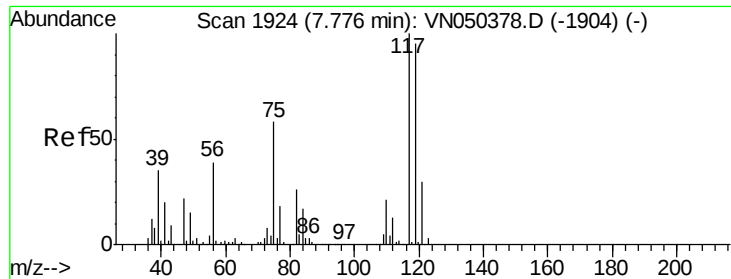
Ion Ratio Lower Upper

43 100

61 7.1 11.8 17.8#

70 0.0 8.4 12.6#

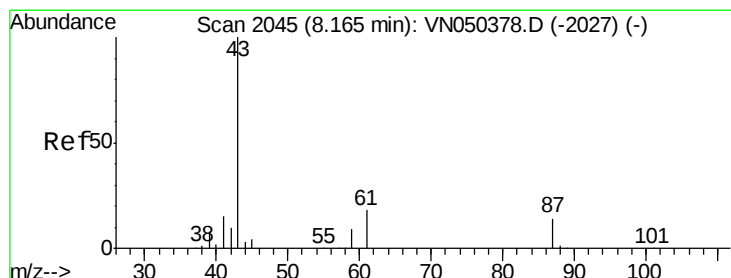
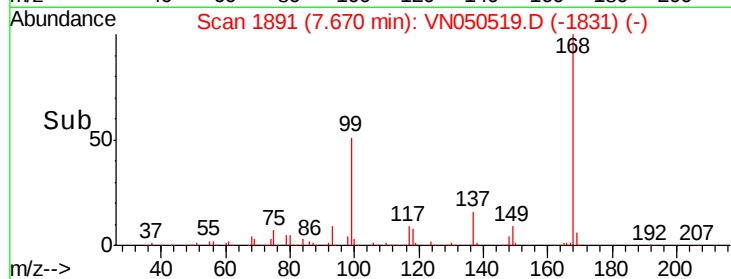
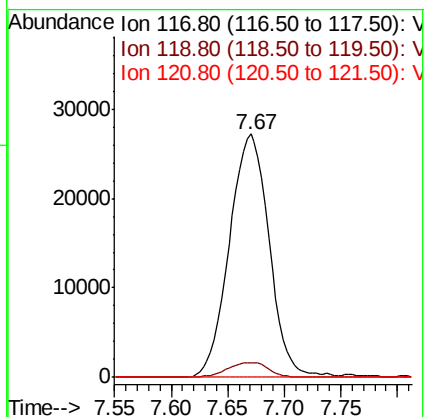
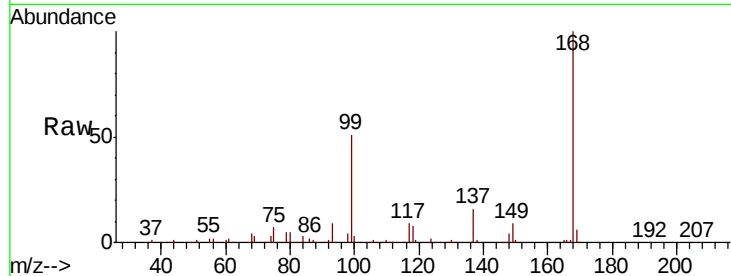




#38
Carbon Tetrachloride
Concen: 4.81 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050519.D
Acq: 10 Aug 2018 15:47

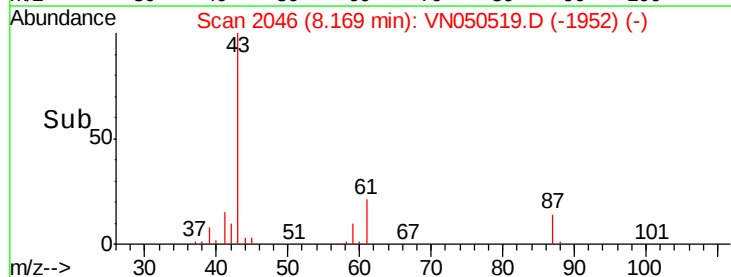
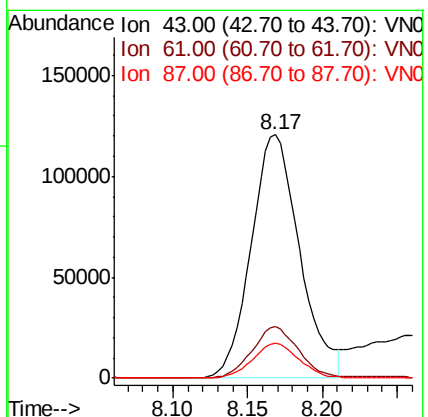
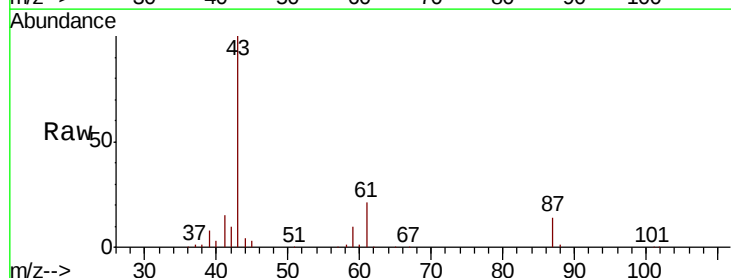
Instrument :
MSVOA_N
ClientSampled :
PB111921TB

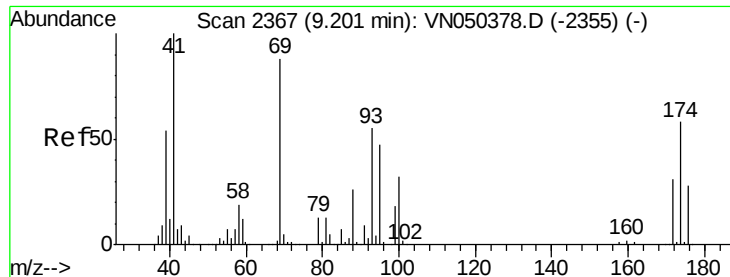
Tot Ion:117 Resp: 66608
Ion Ratio Lower Upper
117 100
119 6.2 77.4 116.0#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 16.49 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050519.D
Acq: 10 Aug 2018 15:47

Tgt Ion: 43 Resp: 272148
Ion Ratio Lower Upper
43 100
61 20.4 15.8 23.6
87 13.8 10.3 15.5

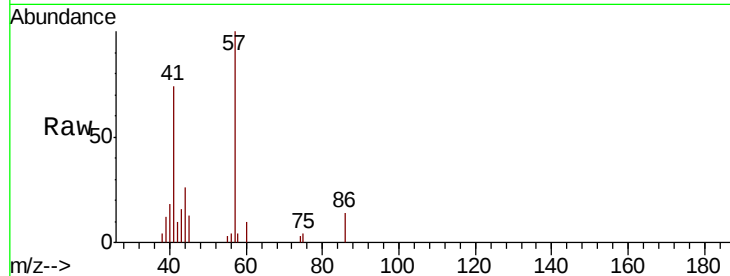




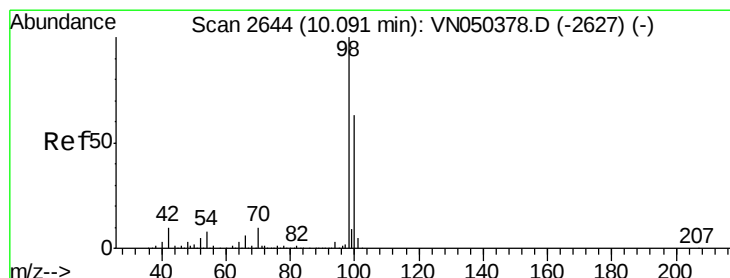
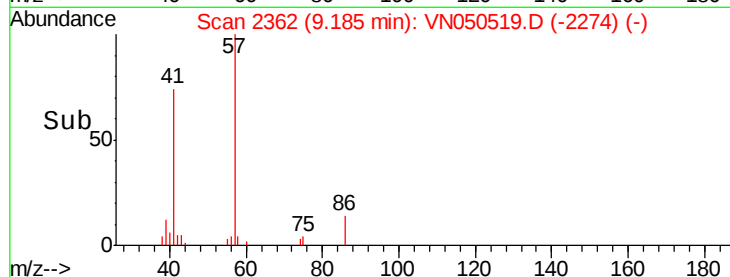
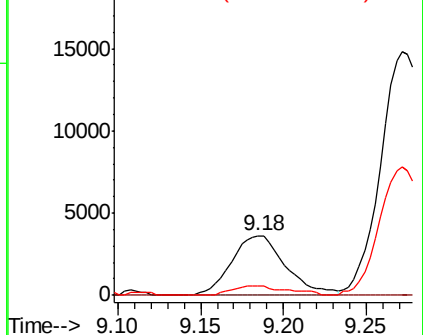
#48
Methvl methacrylate
Concen: 1.00 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050519.D
Acq: 10 Aug 2018 15:47

Instrument :
MSVOA_N
ClientSampleId :
PB111921TB

Tot Ion: 41 Resp: 8252
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 16.7 43.9 65.9#

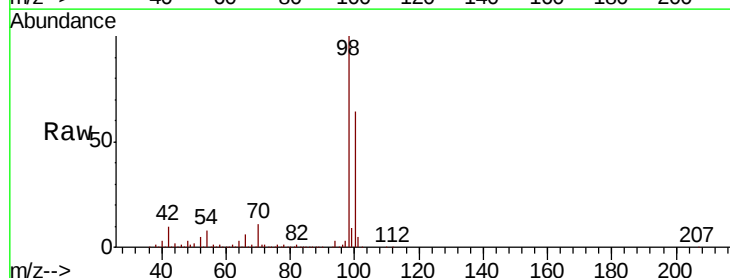


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

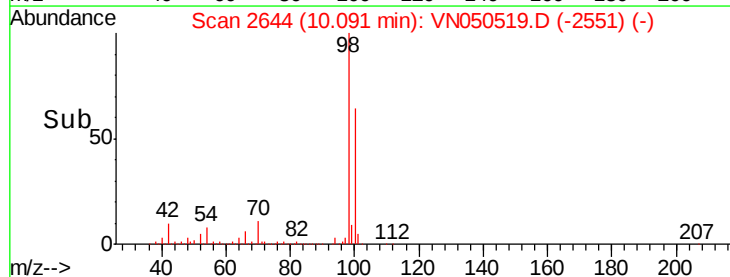
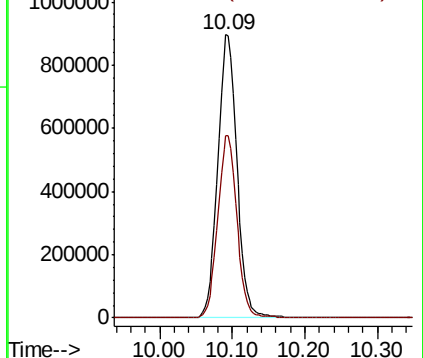


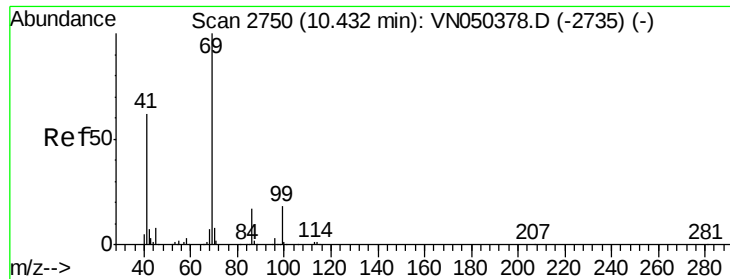
#50
Toluene-d8
Concen: 45.24 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050519.D
Acq: 10 Aug 2018 15:47

Tgt Ion: 98 Resp: 1648626
Ion Ratio Lower Upper
98 100
100 64.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#56

Ethyl methacrylate

Concen: 1.75 ug/l

RT: 10.64 min Scan# 2815

Delta R.T. 0.21 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampled :

PB111921TB

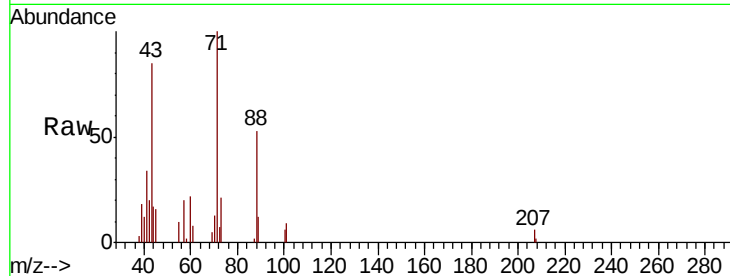
Tot Ion: 69 Resp: 543

Ion Ratio Lower Upper

69 100

41 965.2 51.0 76.4#

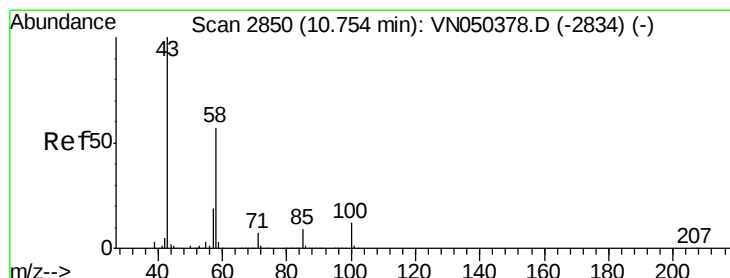
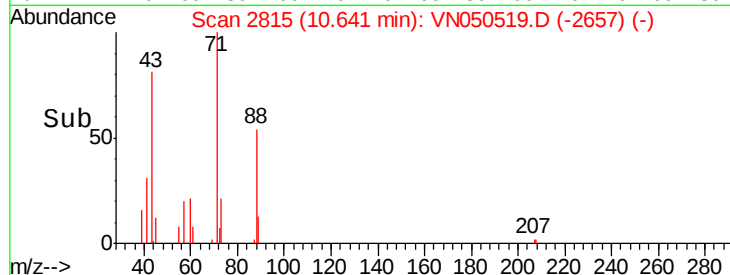
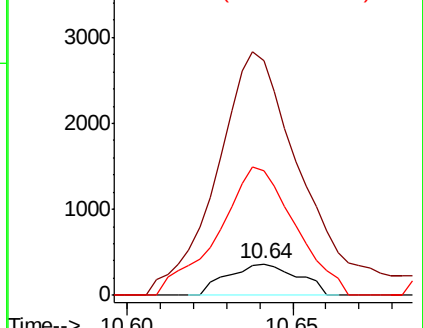
39 443.6 26.6 40.0#



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: 2.61 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050519.D

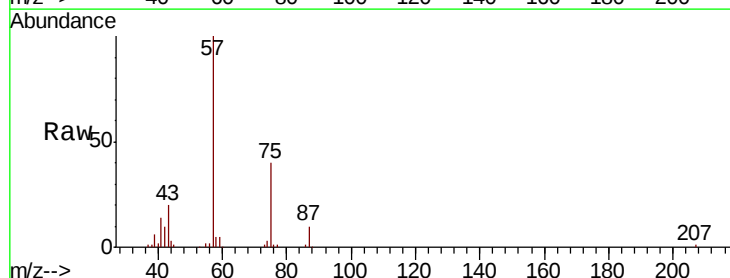
Acq: 10 Aug 2018 15:47

Tgt Ion: 43 Resp: 21610

Ion Ratio Lower Upper

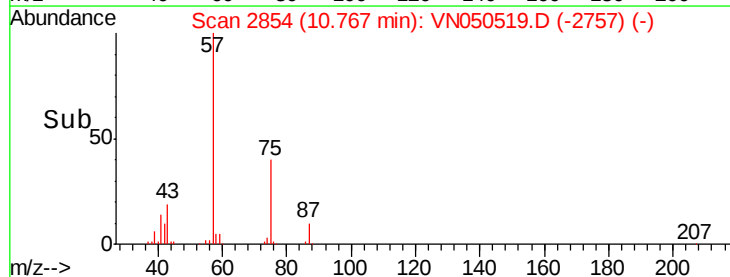
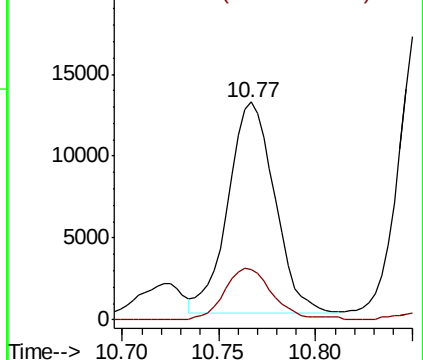
43 100

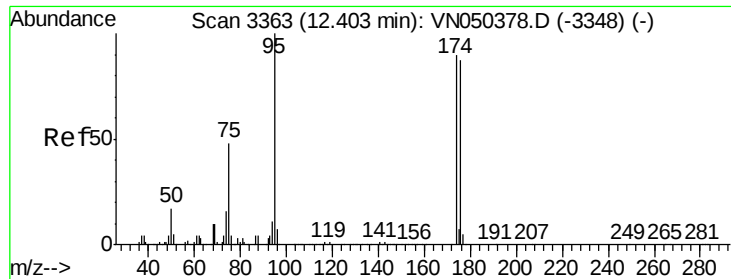
58 25.2 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 38.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB111921TB

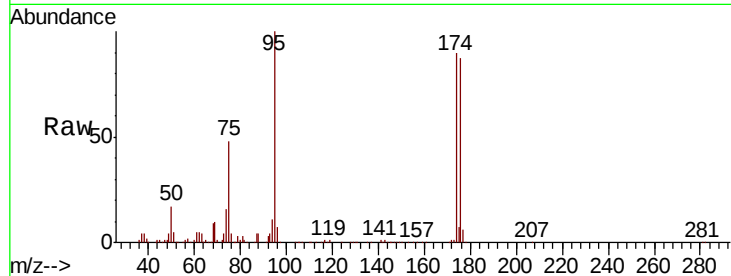
Tot Ion: 95 Resp: 479078

Ion Ratio Lower Upper

95 100

174 91.2 0.0 178.2

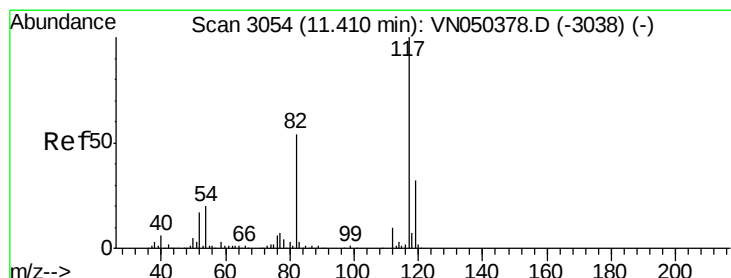
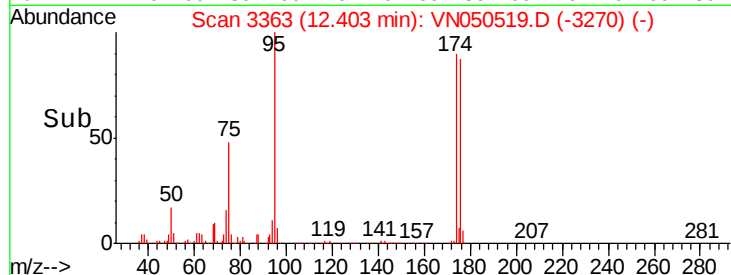
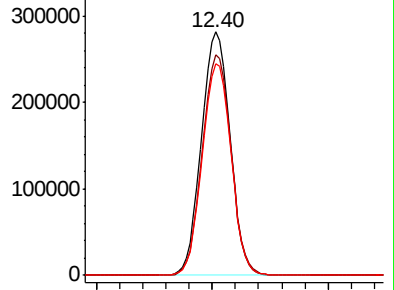
176 87.9 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050378.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050378.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050378.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

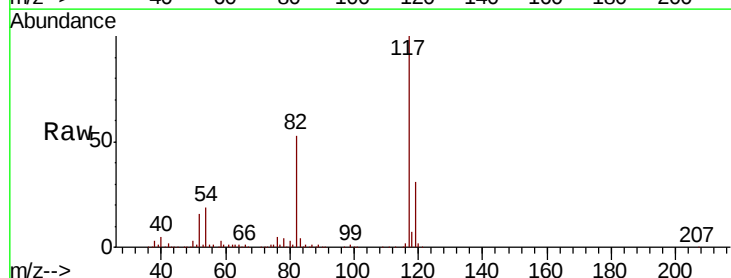
Tgt Ion: 117 Resp: 1051376

Ion Ratio Lower Upper

117 100

82 52.8 43.7 65.5

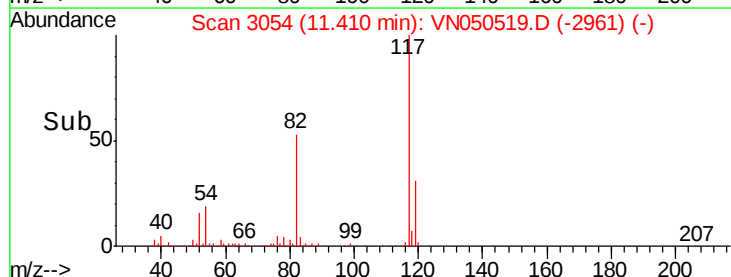
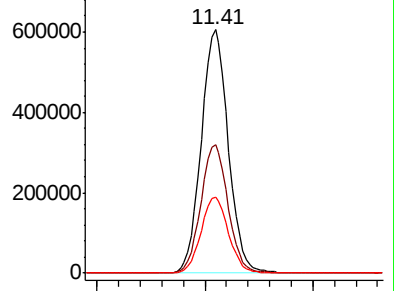
119 31.4 26.1 39.1

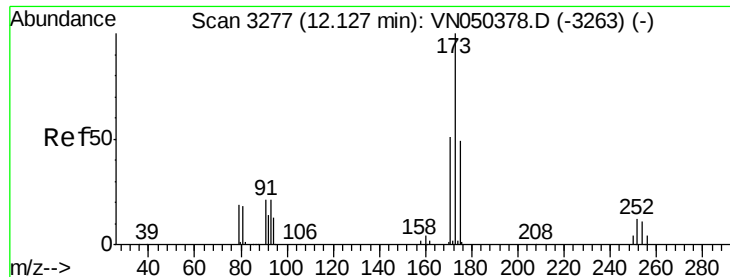


Abundance Ion 116.90 (116.60 to 117.60): VN050378.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050378.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050378.D (-3038) (-)





#71

Bromoform

Concen: 0.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB111921TB

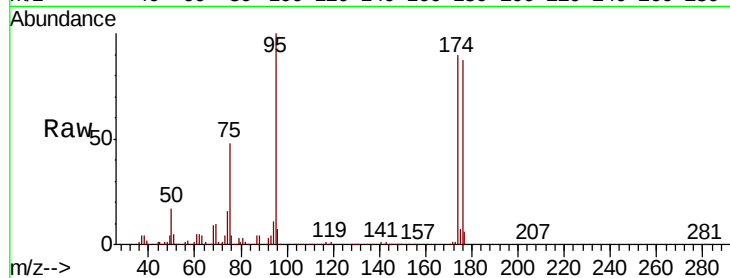
Tot Ion:173 Resp: 3768

Ion Ratio Lower Upper

173 100

175 693.6 24.1 72.2#

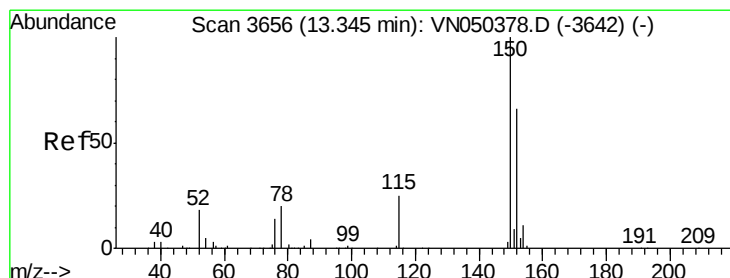
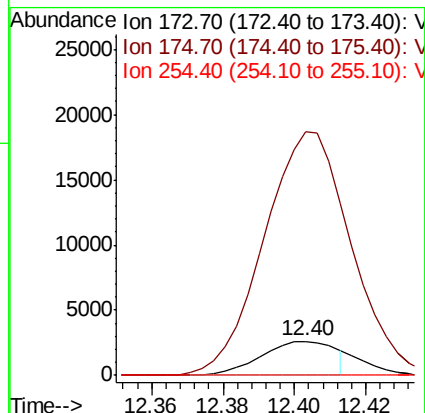
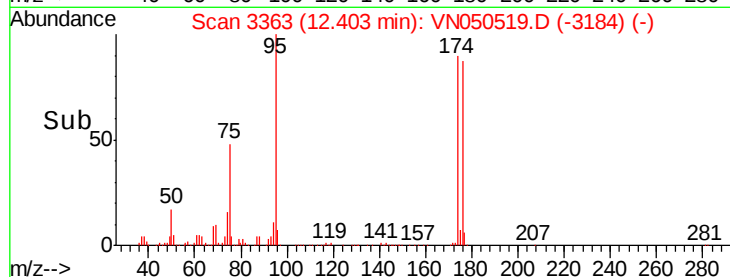
254 0.0 0.2 0.2#



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# 3656

Delta R.T. -0.00 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

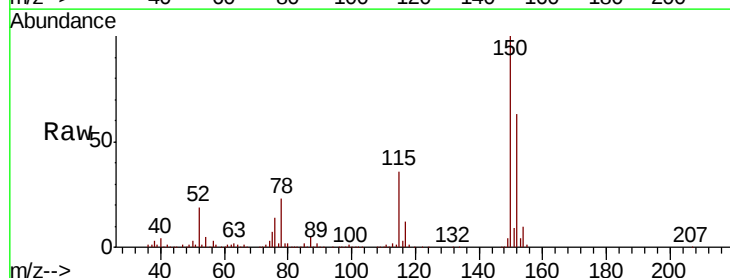
Tgt Ion:152 Resp: 407623

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.3

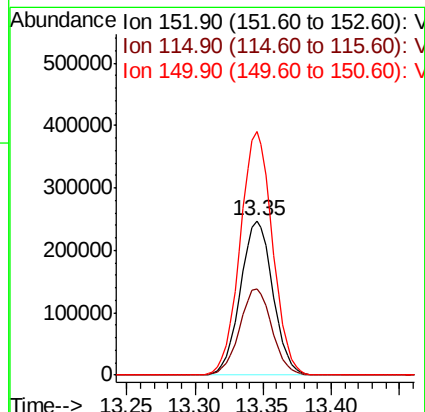
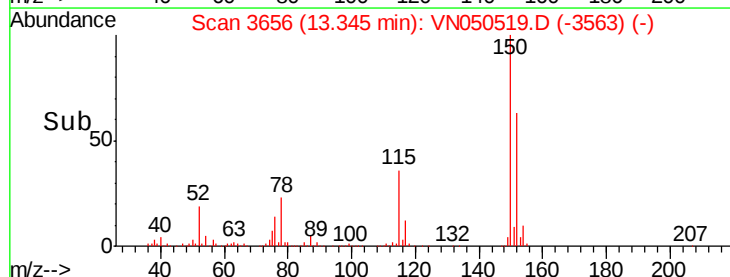
150 157.4 0.0 348.6

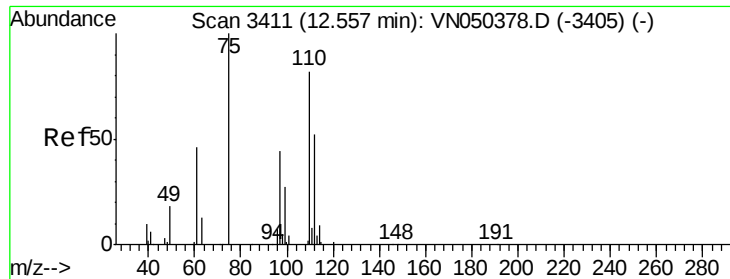


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

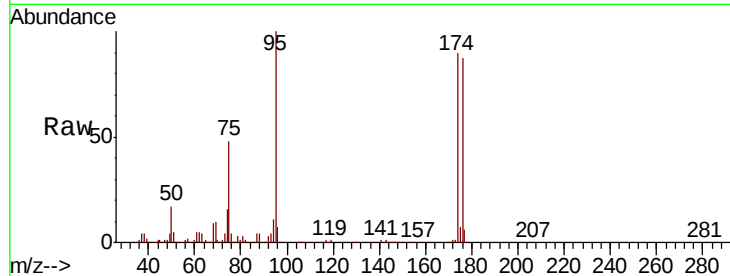
PB111921TB

Tot Ion: 75 Resp: 230418

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050519.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN050519.D (-3318) (-)

12.40

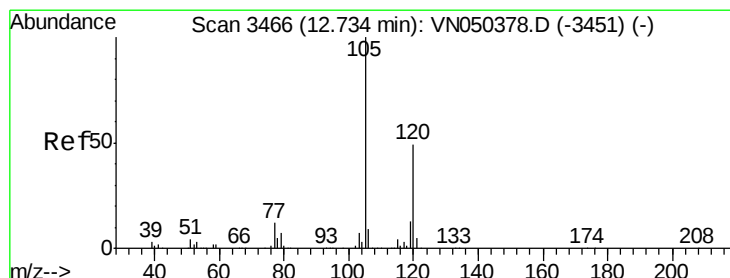
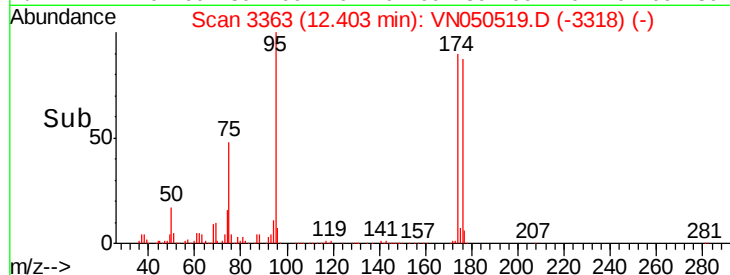
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050519.D

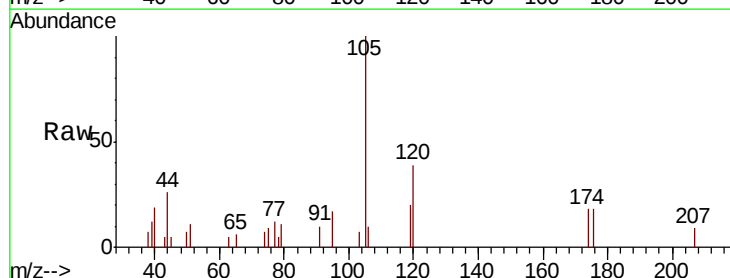
Acq: 10 Aug 2018 15:47

Tgt Ion: 105 Resp: 5369

Ion Ratio Lower Upper

105 100

120 39.3 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050519.D (-3373) (-)

Ion 120.00 (119.70 to 120.70): VN050519.D (-3373) (-)

12.73

4000

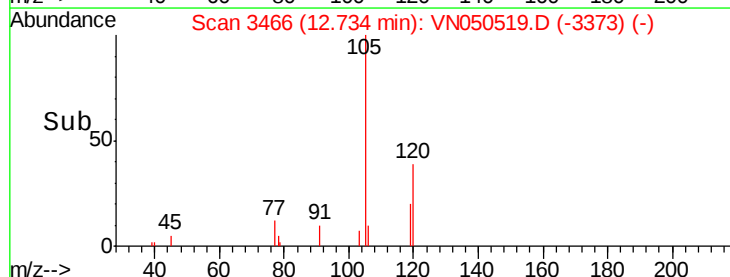
3000

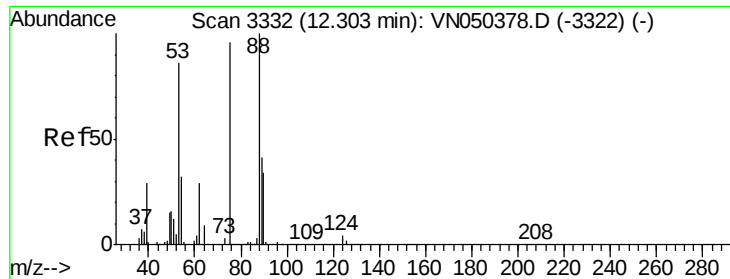
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 109.72 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB111921TB

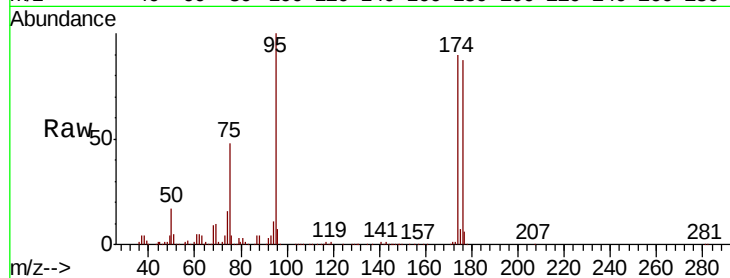
Tot Ion: 75 Resp: 230418

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

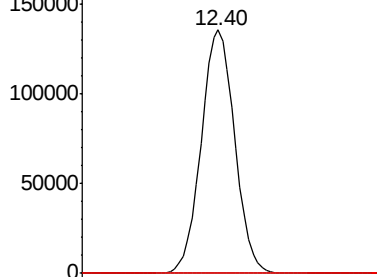
89 0.0 36.0 54.0#



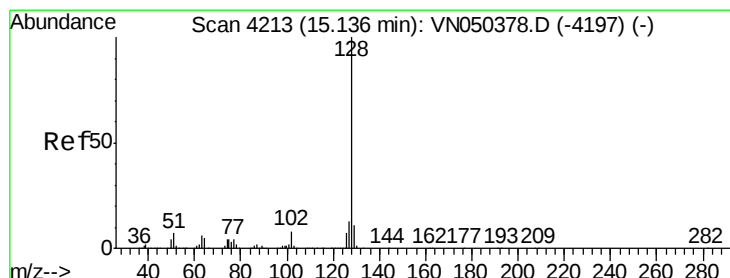
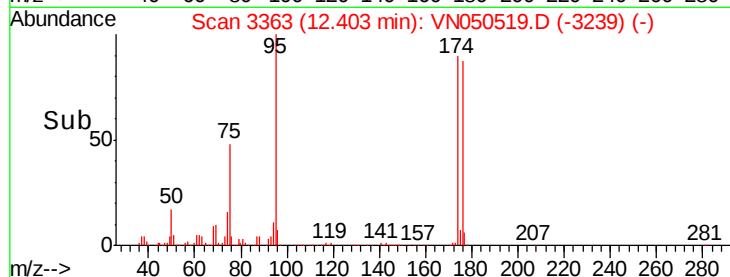
Abundance Ion 74.90 (74.60 to 75.60): VN050519.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN050519.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN050519.D (-3363) (-)



Time-->



#95

Naphthalene

Concen: 3.64 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050519.D

Acq: 10 Aug 2018 15:47

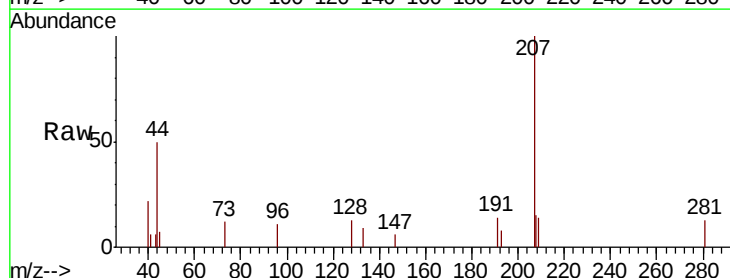
Tgt Ion: 128 Resp: 348

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

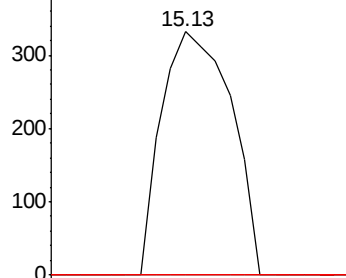
129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN050519.D (-4212) (-)

Ion 127.00 (126.70 to 127.70): VN050519.D (-4212) (-)

Ion 129.00 (128.70 to 129.70): VN050519.D (-4212) (-)



Time-->

