

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050527.D
 Acq On : 10 Aug 2018 19:05
 Operator : MD\SY
 Sample : PB111921ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#06

Quant Time: Aug 10 23:19:15 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	654717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1090954	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	959256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	375995	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	449322	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
35) Dibromofluoromethane	7.60	113	413445	47.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.46%	
50) Toluene-d8	10.09	98	1484698	45.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.22%	
62) 4-Bromofluorobenzene	12.40	95	437574	39.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.02%	

Target Compounds

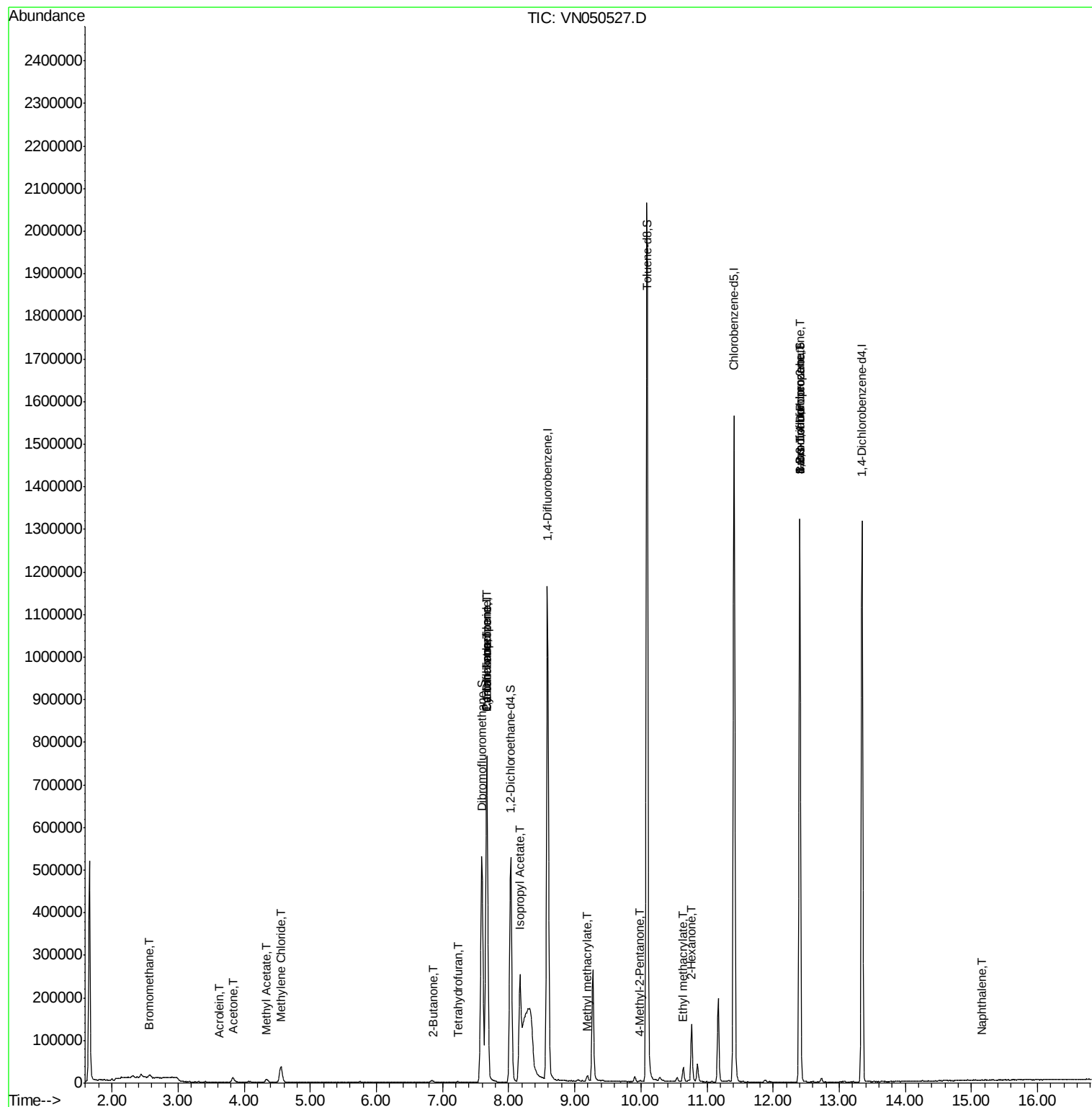
						Qvalue
3) Chloromethane	2.06	50	3152	Below Cal		98
5) Bromomethane	2.57	94	3828	1.01 ug/l		99
13) Acrolein	3.62	56	29	15.06 ug/l	#	15
16) Acetone	3.83	43	20047	7.34 ug/l		98
18) Methyl Acetate	4.33	43	14442	1.94 ug/l		97
20) Methylene Chloride	4.55	84	29933	2.27 ug/l		95
25) 2-Butanone	6.86	43	3236	0.75 ug/l		90
29) Tetrahydrofuran	7.23	42	1815	0.78 ug/l	#	54
31) Cyclohexane	7.67	56	11685	0.31 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	44851	3.74 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	58357	4.67 ug/l	#	17
43) Isopropyl Acetate	8.17	43	307327	20.62 ug/l		95
48) Methyl methacrylate	9.18	41	7829	1.05 ug/l	#	22
51) 4-Methyl-2-Pentanone	9.99	43	2424	0.23 ug/l		98
56) Ethyl methacrylate	10.64	69	709	1.77 ug/l	#	1
59) 2-Hexanone	10.77	43	19026	2.54 ug/l	#	56
71) Bromoform	12.40	173	2584	0.40 ug/l	#	1
76) 1,2,3-Trichloropropane	12.40	75	210886	30.99 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	210886	108.87 ug/l	#	13
95) Naphthalene	15.15	128	243	3.63 ug/l	#	69

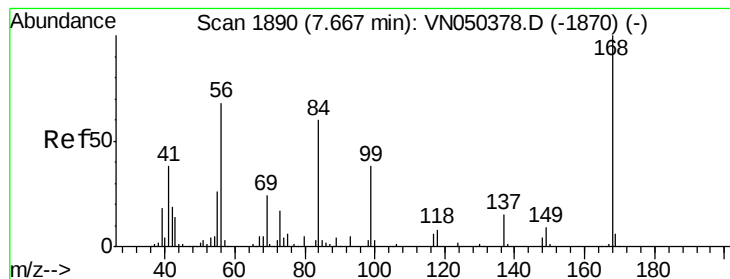
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050527.D

Acq: 10 Aug 2018 19:05

Instrument :

MSVOA_N

ClientSampleId :

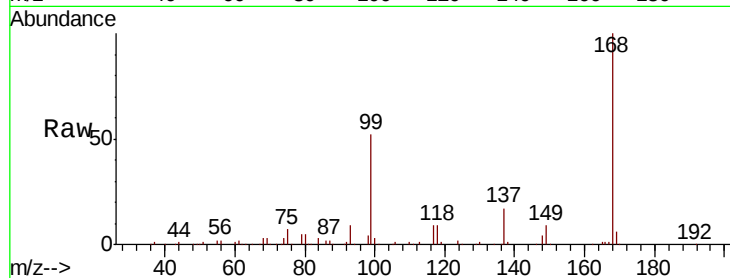
PB111921ZHE#06

Tot Ion:168 Resp: 654717

Ion Ratio Lower Upper

168 100

99 51.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050378.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1870) (-)

7.67

250000

200000

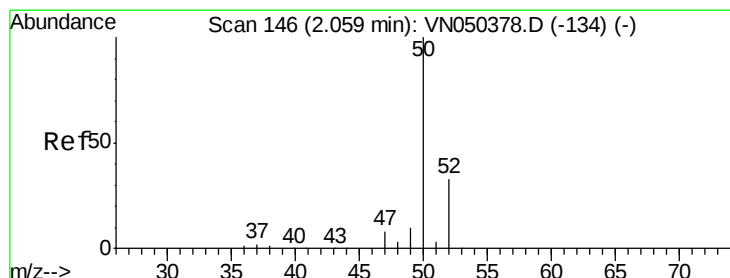
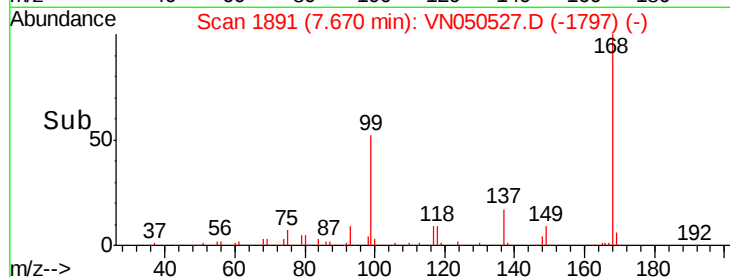
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050527.D

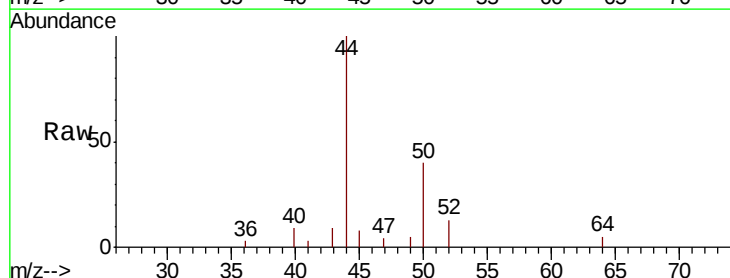
Acq: 10 Aug 2018 19:05

Tgt Ion: 50 Resp: 3152

Ion Ratio Lower Upper

50 100

52 33.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN050378.D (-134) (-)

Ion 51.90 (51.60 to 52.60): VN050378.D (-134) (-)

2.06

2500

2000

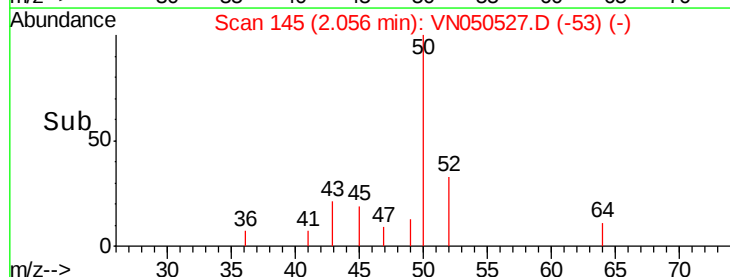
1500

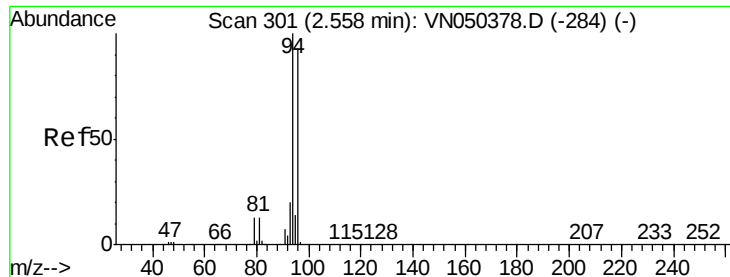
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.01 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

Instrument :

MSVOA_N

ClientSampleId :

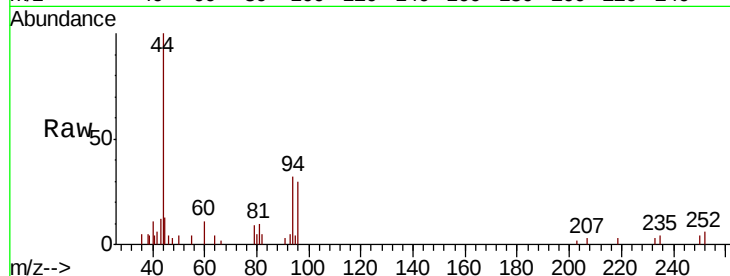
PB111921ZHE#06

Tot Ion: 94 Resp: 3828

Ion Ratio Lower Upper

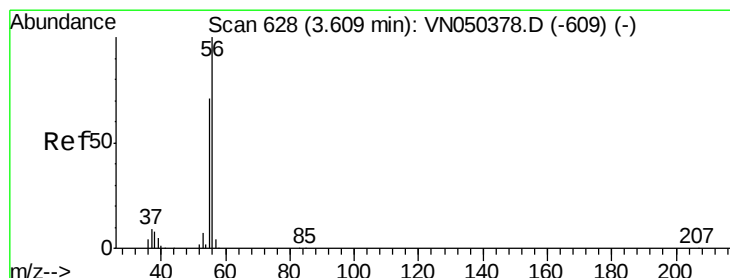
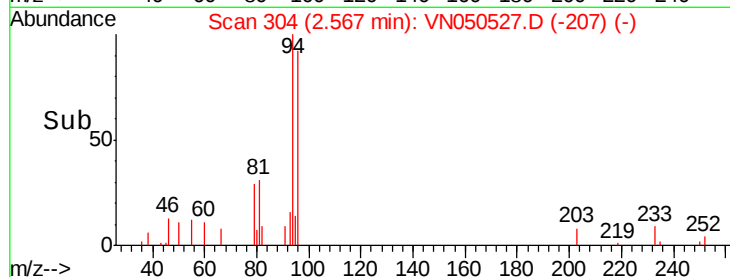
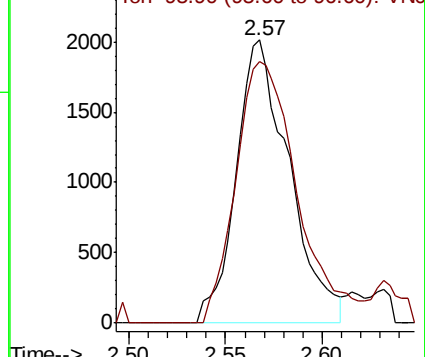
94 100

96 92.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 15.06 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050527.D

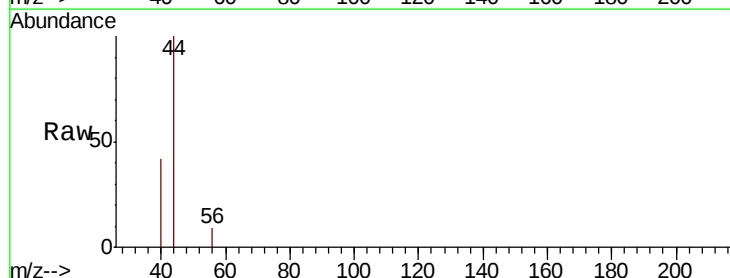
Acq: 10 Aug 2018 19:05

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

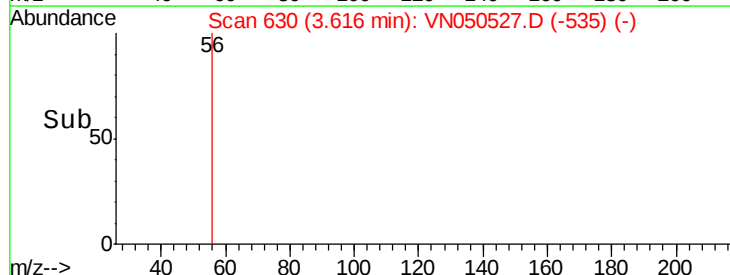
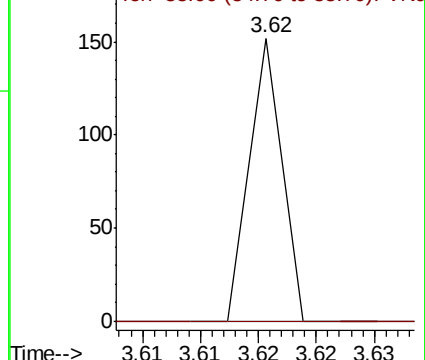
56 100

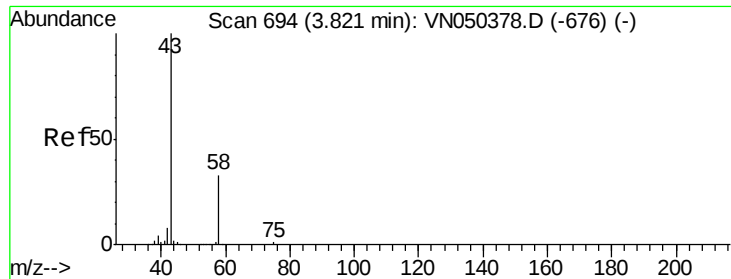
55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 7.34 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

Instrument :

MSVOA_N

ClientSampleId :

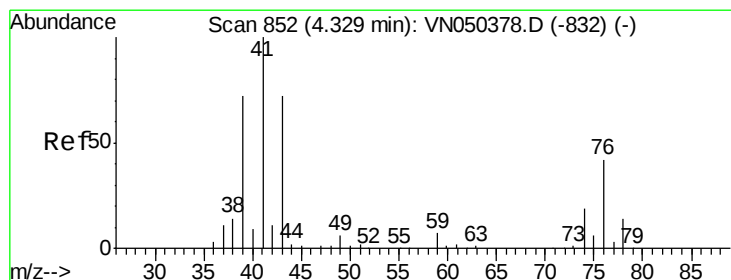
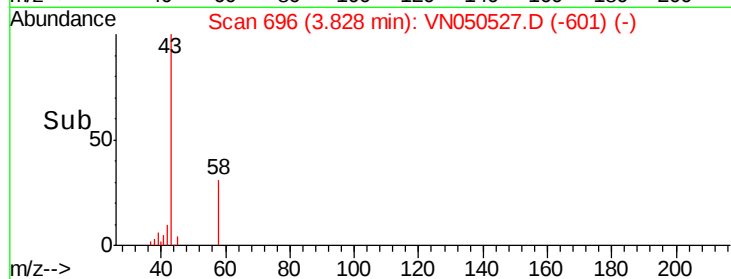
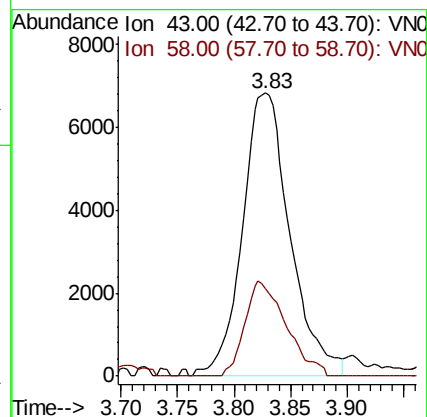
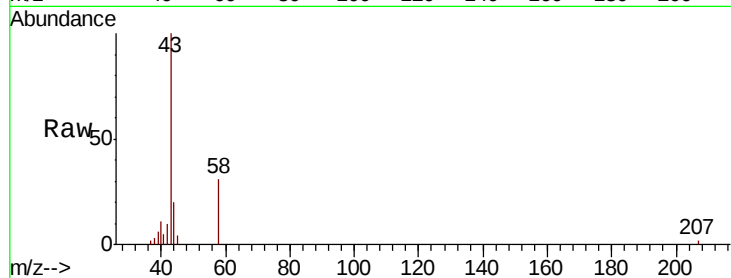
PB111921ZHE#06

Tot Ion: 43 Resp: 20047

Ion Ratio Lower Upper

43 100

58 31.1 25.8 38.8



#18

Methyl Acetate

Concen: 1.94 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050527.D

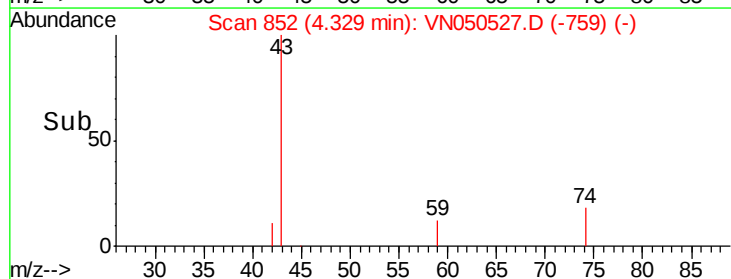
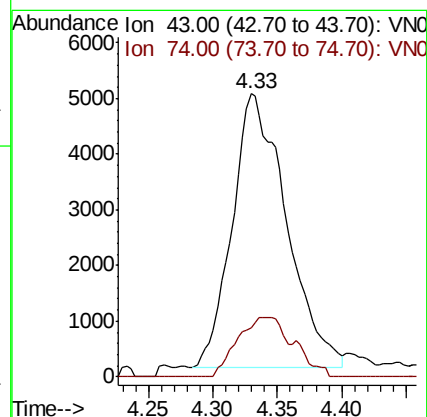
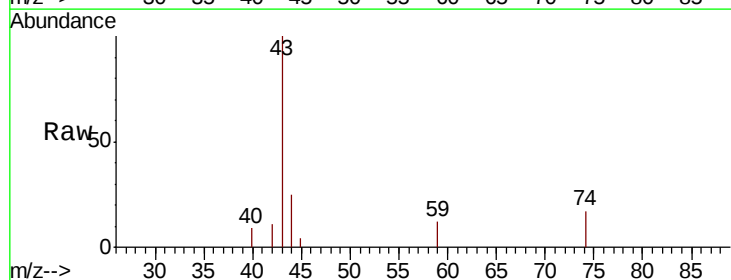
Acq: 10 Aug 2018 19:05

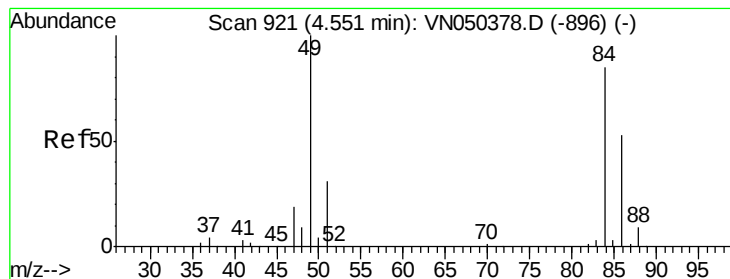
Tgt Ion: 43 Resp: 14442

Ion Ratio Lower Upper

43 100

74 22.4 19.2 28.8





#20

Methylene Chloride

Concen: 2.27 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#06

Tot Ion: 84 Resp: 29933

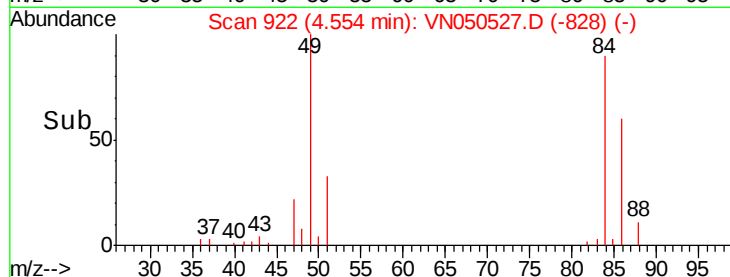
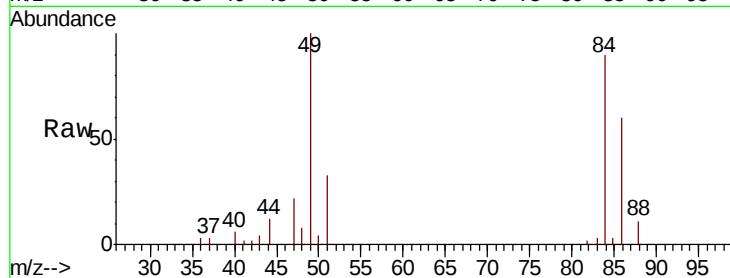
Ion Ratio Lower Upper

84 100

49 111.2 94.8 142.2

51 36.8 28.3 42.5

86 66.4 51.0 76.6

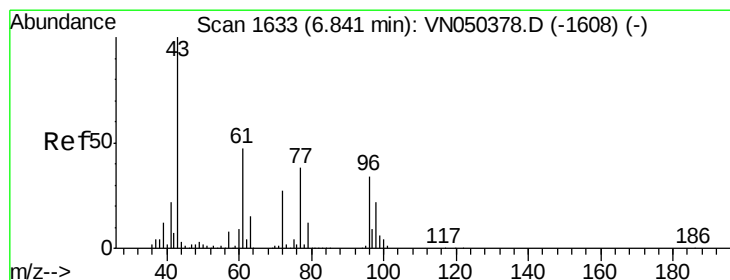
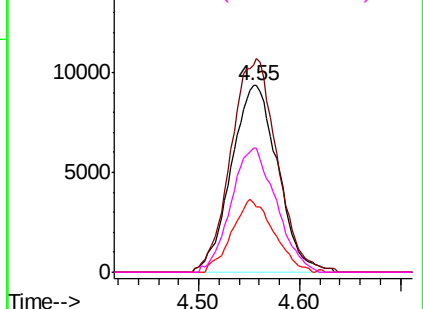


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.75 ug/l

RT: 6.86 min Scan# 1640

Delta R.T. 0.02 min

Lab File: VN050527.D

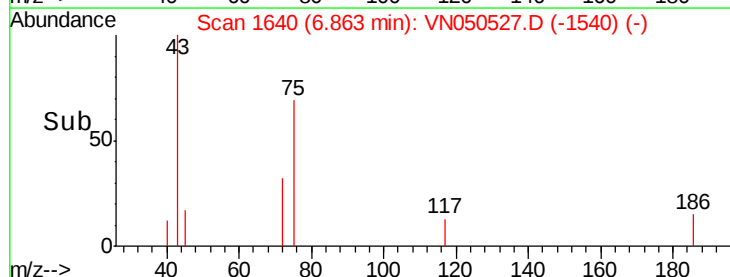
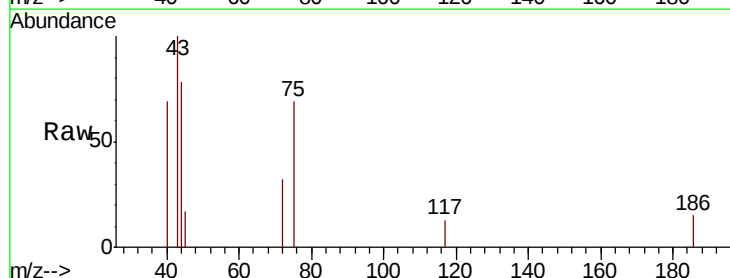
Acq: 10 Aug 2018 19:05

Tgt Ion: 43 Resp: 3236

Ion Ratio Lower Upper

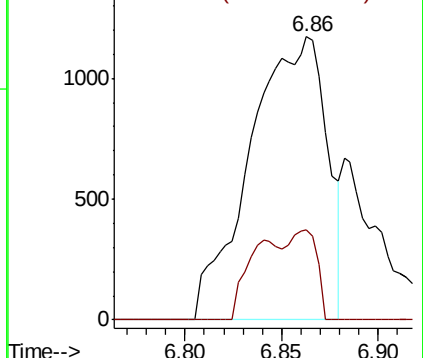
43 100

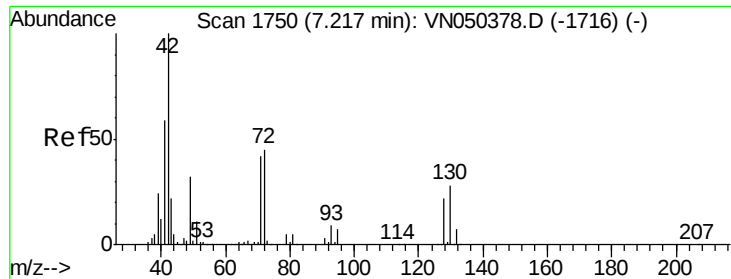
72 31.9 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

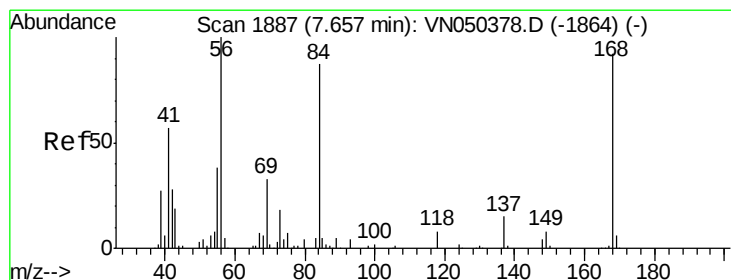
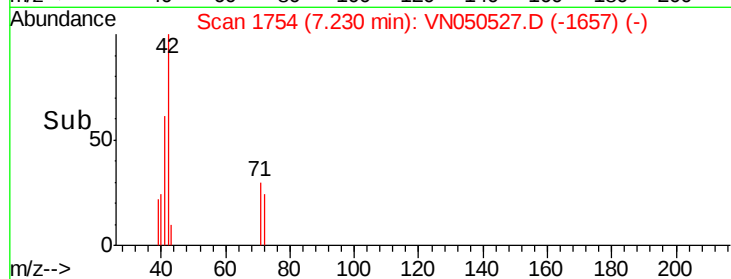
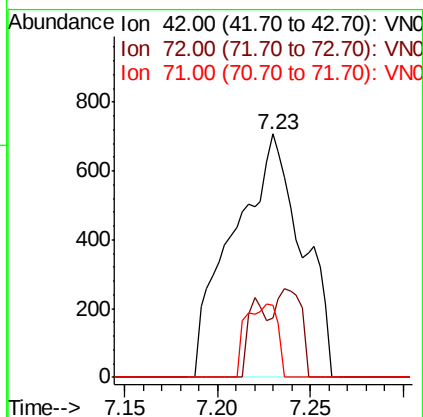
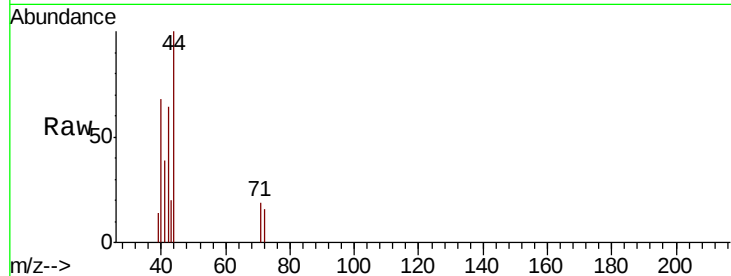




#29
Tetrahydrofuran
Concen: 0.78 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN050527.D
Acq: 10 Aug 2018 19:05

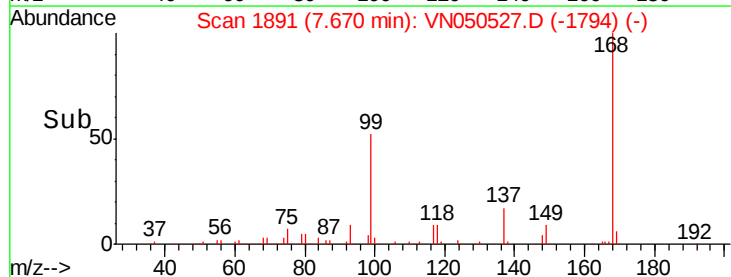
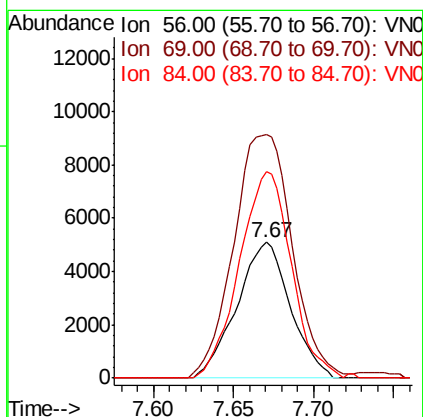
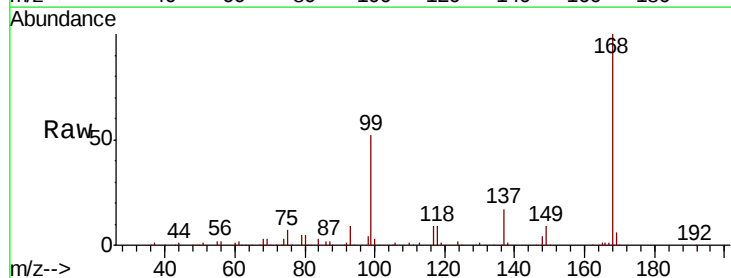
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#06

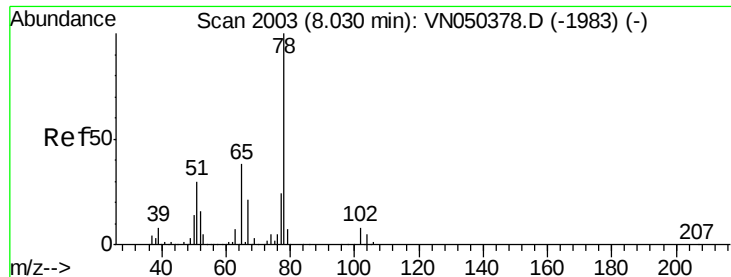
Tot Ion:	42	Resp:	1815
Ion	Ratio	Lower	Upper
42	100		
72	14.4	35.9	53.9#
71	13.9	33.7	50.5#



#31
Cyclohexane
Concen: 0.31 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050527.D
Acq: 10 Aug 2018 19:05

Tgt Ion:	56	Resp:	11685
Ion	Ratio	Lower	Upper
56	100		
69	179.0	26.2	39.4#
84	151.5	67.4	101.0#





#33

1,2-Dichloroethane-d4

Concen: 51.37 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

Instrument :

MSVOA_N

ClientSampleId :

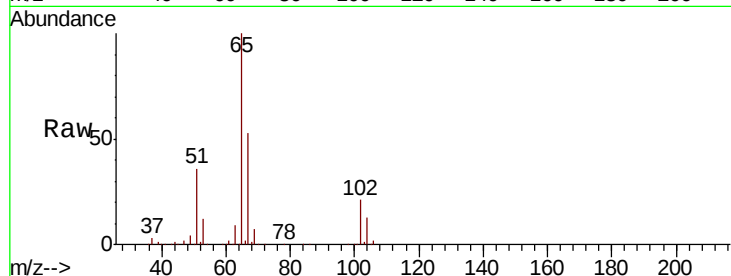
PB111921ZHE#06

Tot Ion: 65 Resp: 449322

Ion Ratio Lower Upper

65 100

67 53.9 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050378.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050378.D (-1983) (-)

8.03

200000

150000

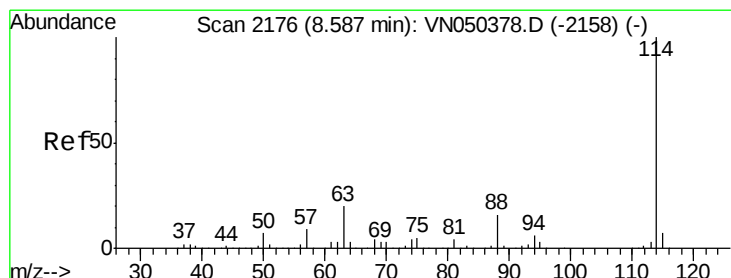
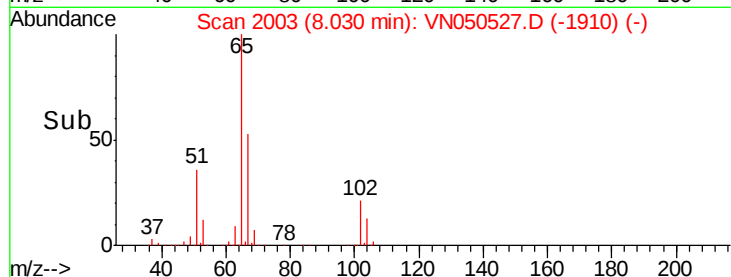
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

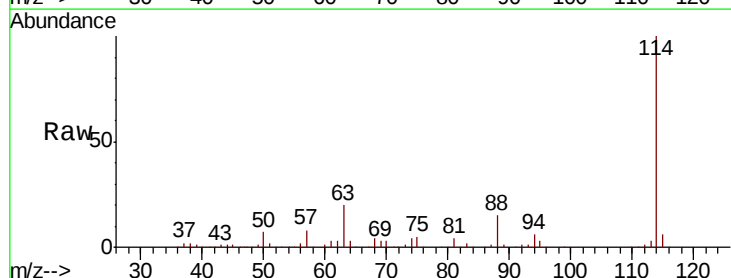
Tgt Ion: 114 Resp: 1090954

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

88 15.2 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN050378.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN050378.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN050378.D (-2158) (-)

8.59

600000

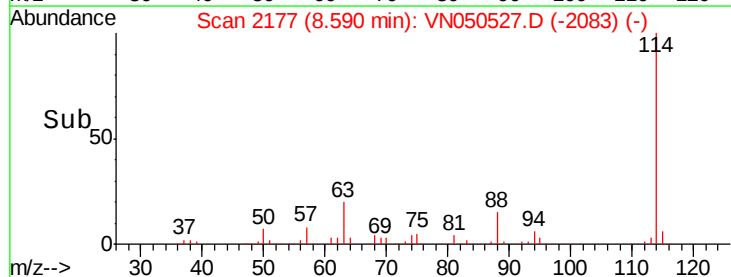
400000

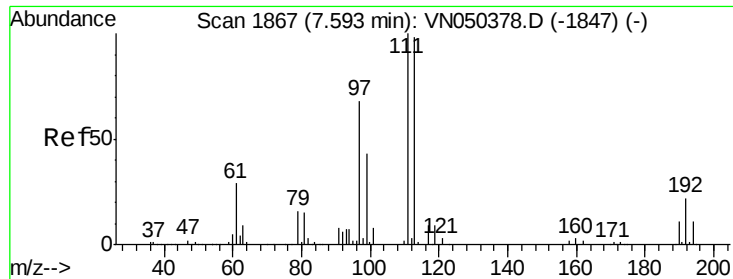
200000

0

8.50 8.60 8.70 8.80

Time-->

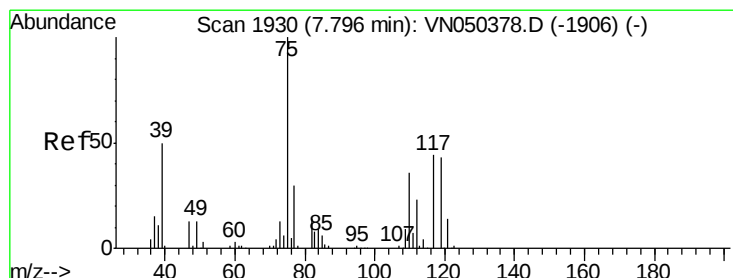
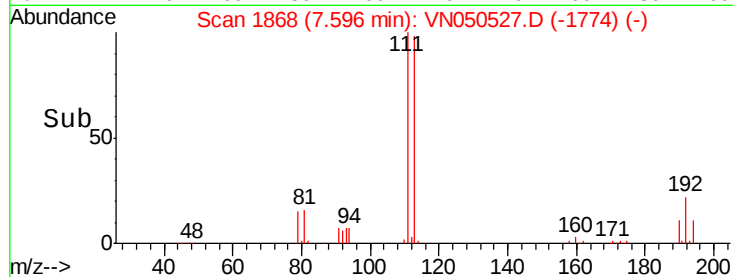
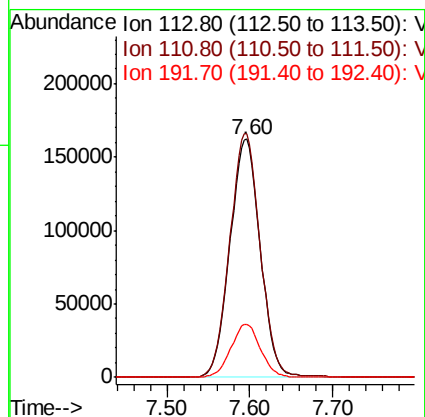
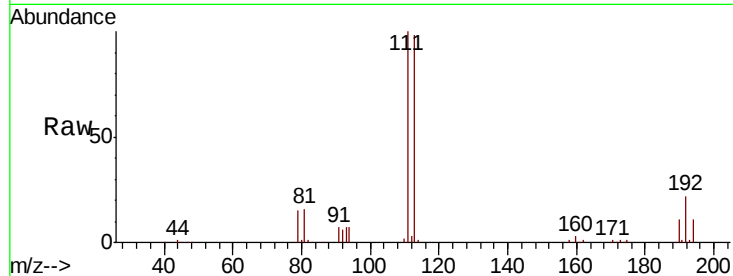




#35
 Dibromofluoromethane
 Concen: 47.23 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050527.D
 Acq: 10 Aug 2018 19:05

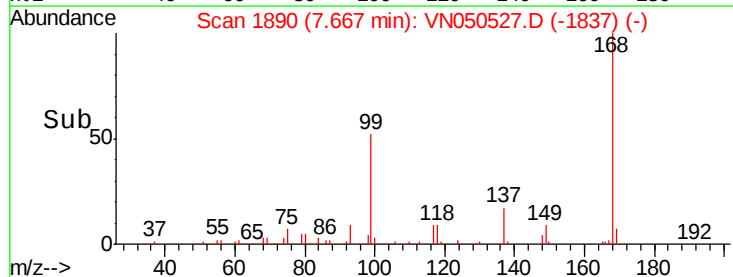
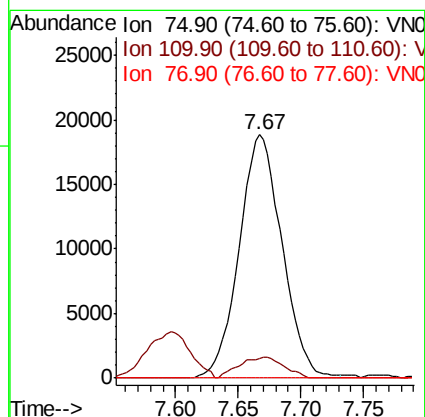
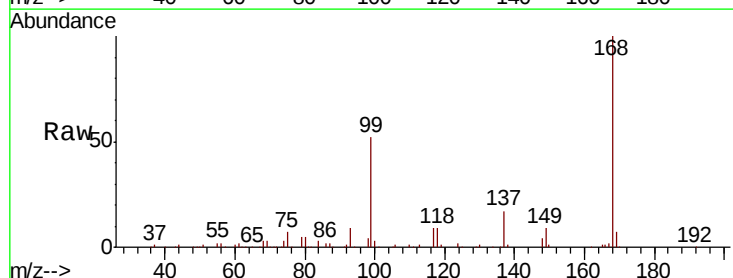
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#06

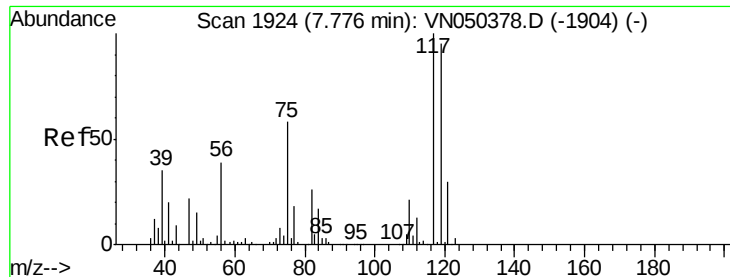
Tot Ion:113 Resp: 413445
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.7 121.1
 192 21.8 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.74 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050527.D
 Acq: 10 Aug 2018 19:05

Tgt Ion: 75 Resp: 44851
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.4 55.2#
 77 0.0 25.3 37.9#

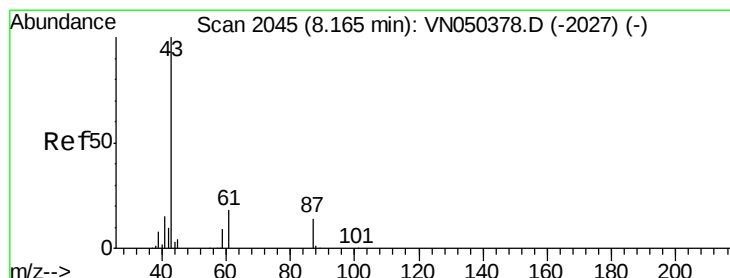
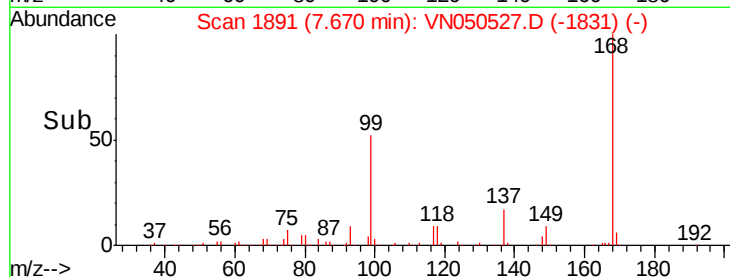
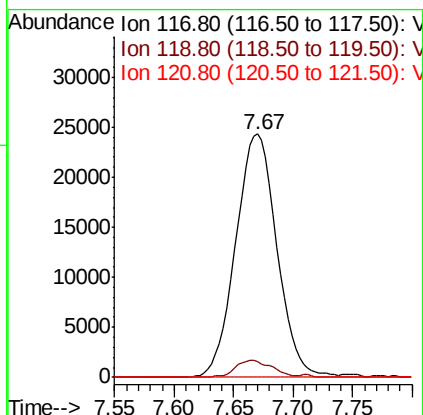
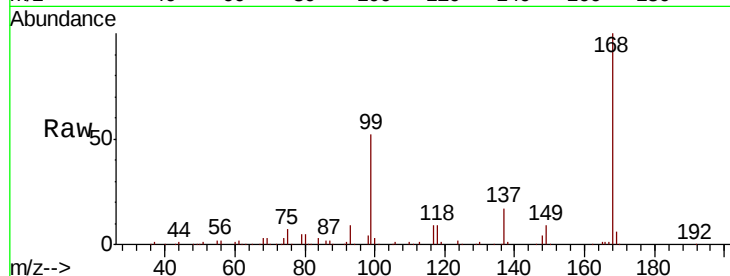




#38
Carbon Tetrachloride
Concen: 4.67 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050527.D
Acq: 10 Aug 2018 19:05

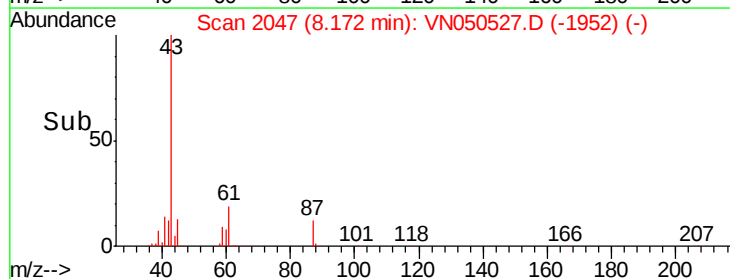
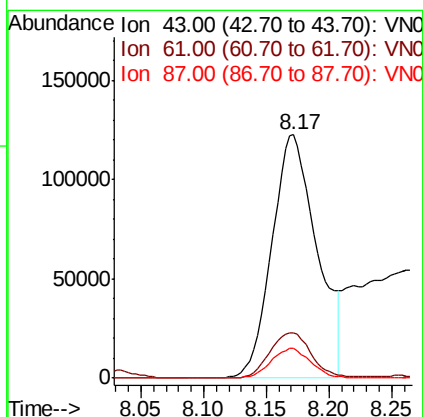
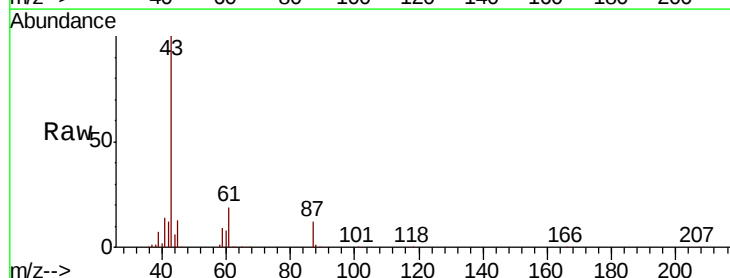
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#06

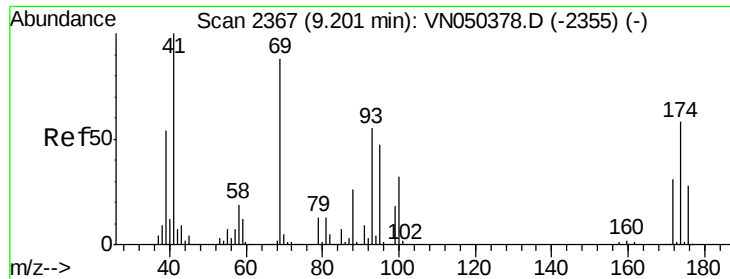
Tot Ion:117 Resp: 58357
Ion Ratio Lower Upper
117 100
119 6.3 77.4 116.0#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 20.62 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.01 min
Lab File: VN050527.D
Acq: 10 Aug 2018 19:05

Tgt Ion: 43 Resp: 307327
Ion Ratio Lower Upper
43 100
61 17.2 15.8 23.6
87 10.8 10.3 15.5

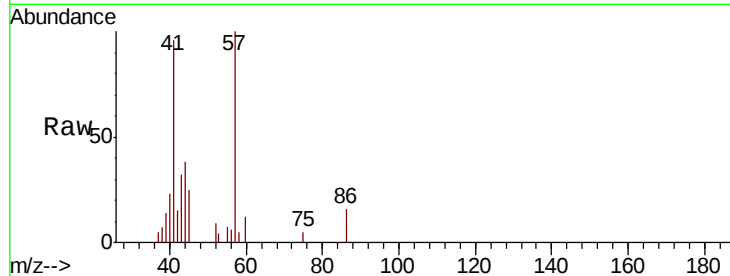




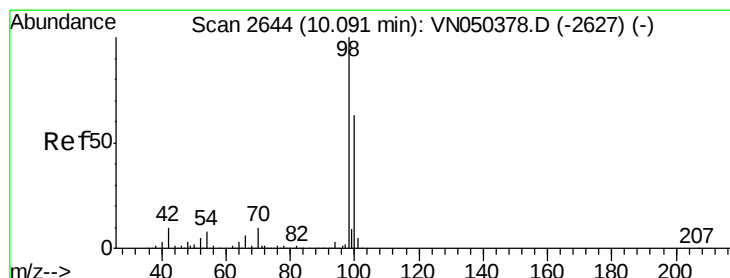
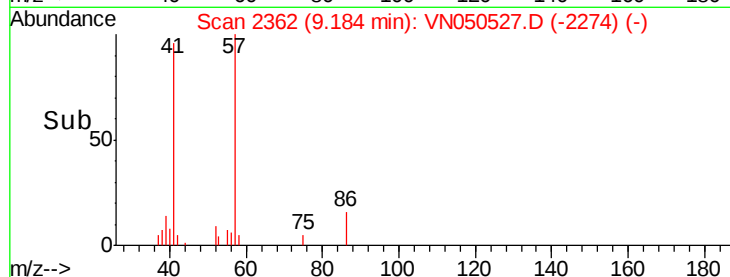
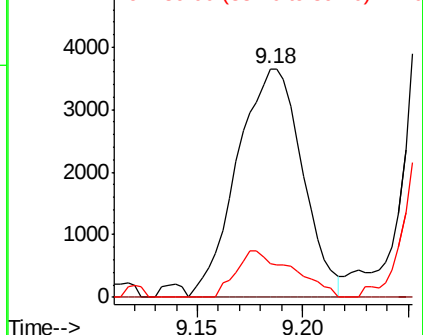
#48
Methvl methacrylate
Concen: 1.05 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050527.D
Acq: 10 Aug 2018 19:05

Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#06

Tot Ion: 41 Resp: 7829
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 18.1 43.9 65.9#

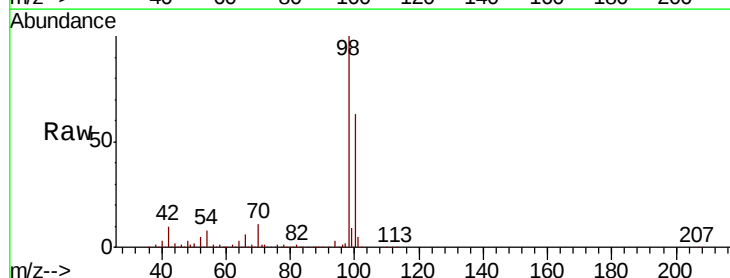


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

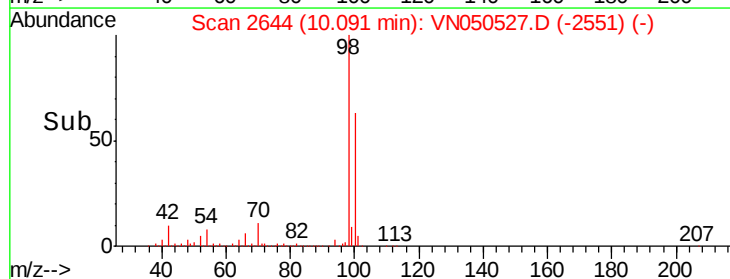
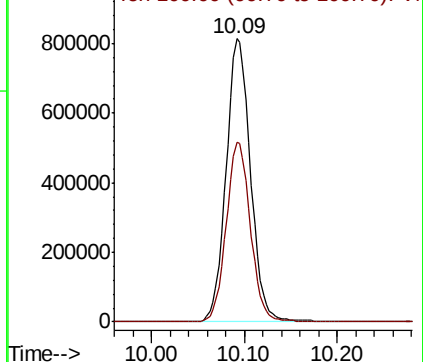


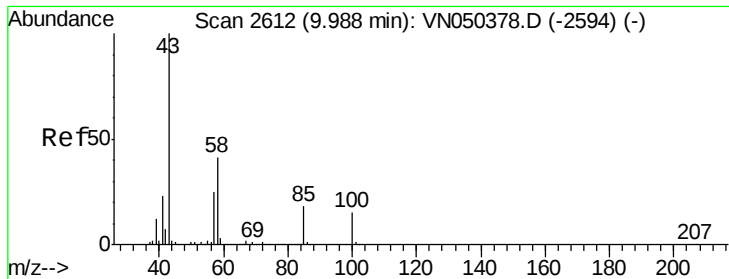
#50
Toluene-d8
Concen: 45.11 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050527.D
Acq: 10 Aug 2018 19:05

Tgt Ion: 98 Resp: 1484698
Ion Ratio Lower Upper
98 100
100 63.0 50.7 76.1



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

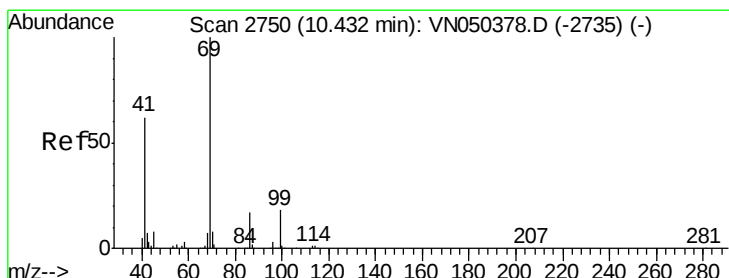
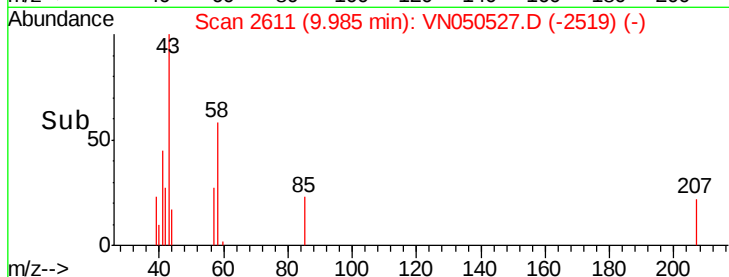
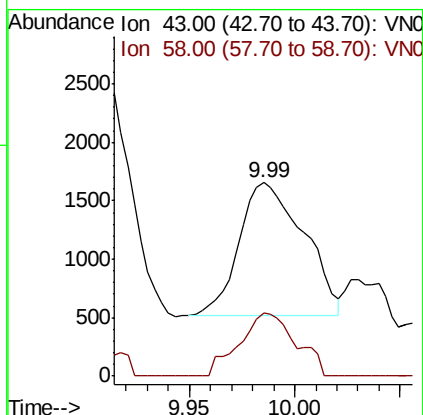
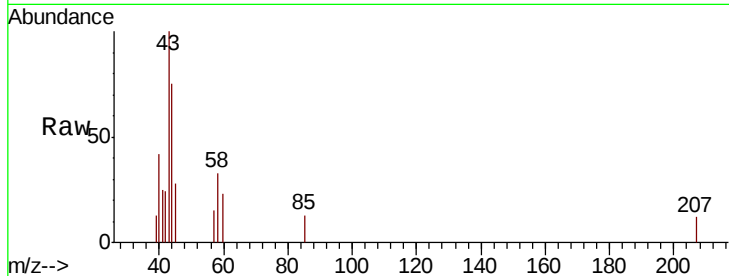




#51
 4-Methyl-2-Pentanone
 Concen: 0.23 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN050527.D
 Acq: 10 Aug 2018 19:05

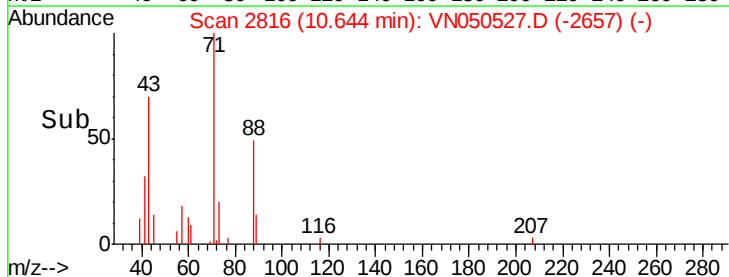
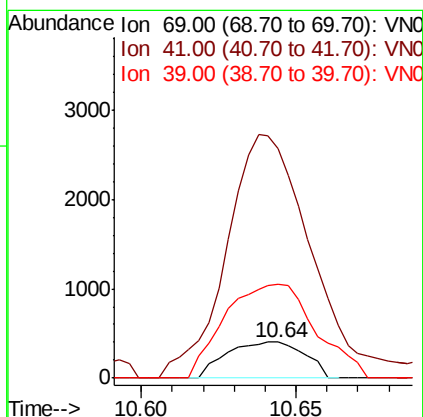
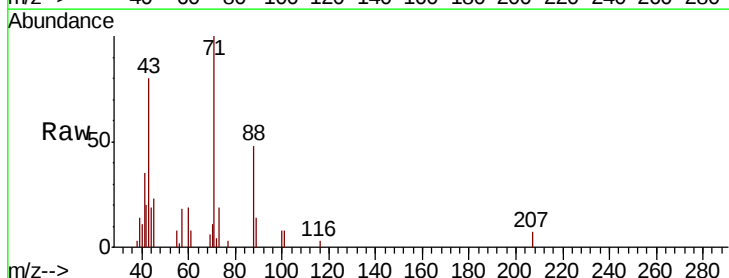
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#06

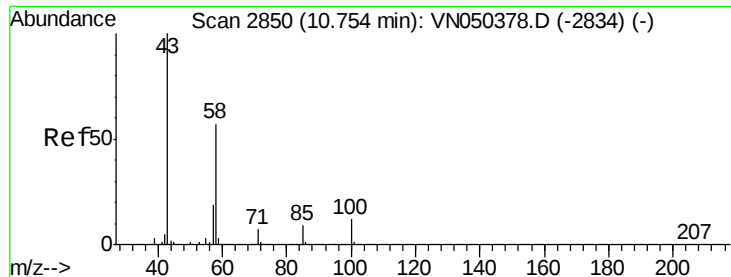
Tot Ion: 43 Resp: 2424
 Ion Ratio Lower Upper
 43 100
 58 41.3 31.9 47.9



#56
 Ethyl methacrylate
 Concen: 1.77 ug/l
 RT: 10.64 min Scan# 2816
 Delta R.T. 0.21 min
 Lab File: VN050527.D
 Acq: 10 Aug 2018 19:05

Tgt Ion: 69 Resp: 709
 Ion Ratio Lower Upper
 69 100
 41 735.8 51.0 76.4#
 39 302.5 26.6 40.0#





#59

2-Hexanone

Concen: 2.54 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

Instrument :

MSVOA_N

ClientSampleId :

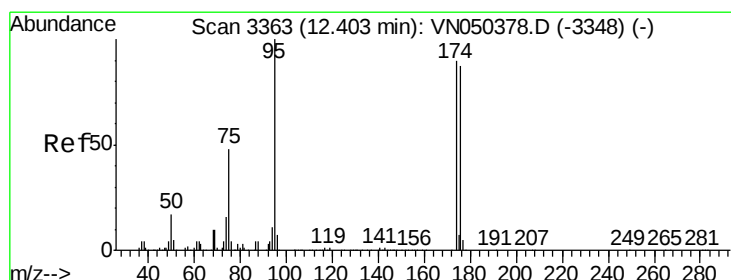
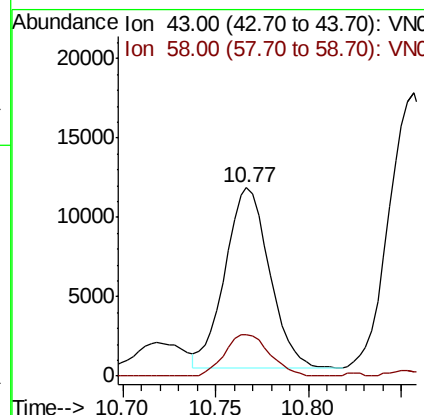
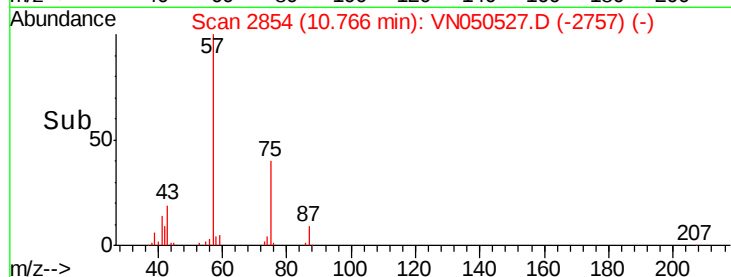
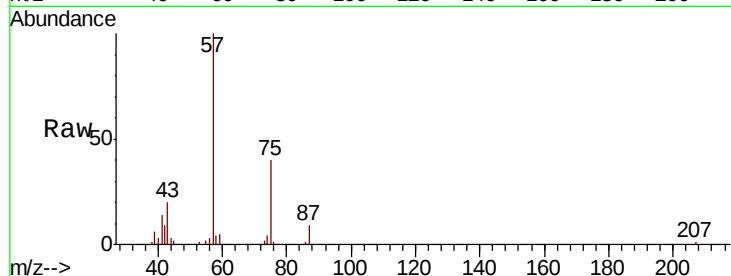
PB111921ZHE#06

Tot Ion: 43 Resp: 19026

Ion Ratio Lower Upper

43 100

58 23.3 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 39.01 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

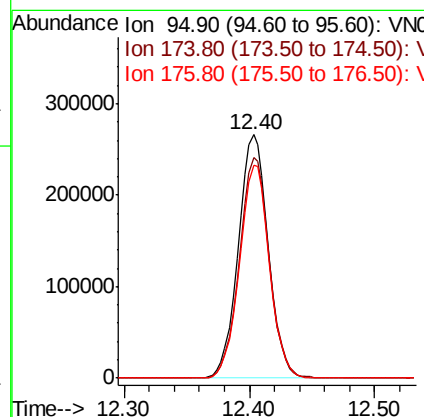
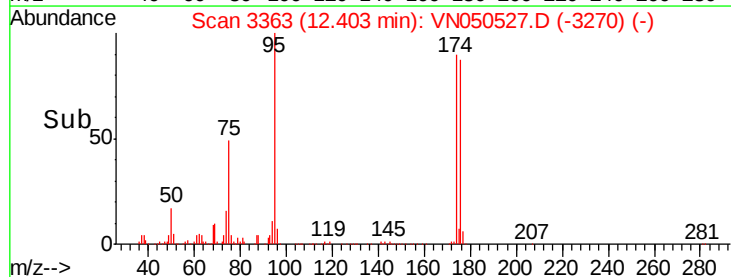
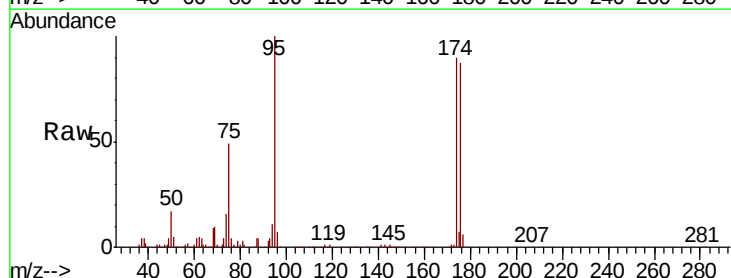
Tgt Ion: 95 Resp: 437574

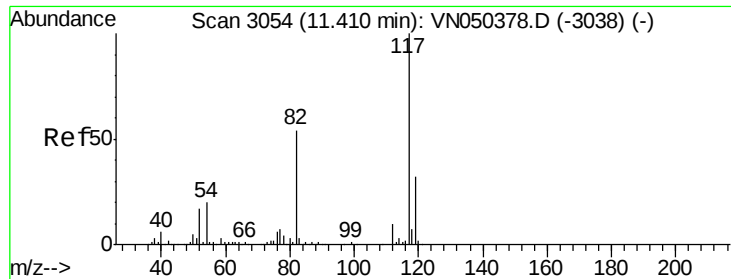
Ion Ratio Lower Upper

95 100

174 91.3 0.0 178.2

176 87.6 0.0 173.4

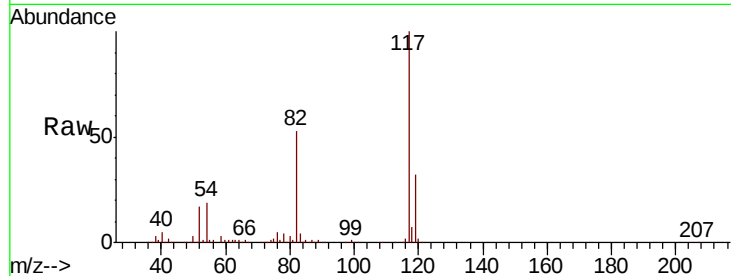




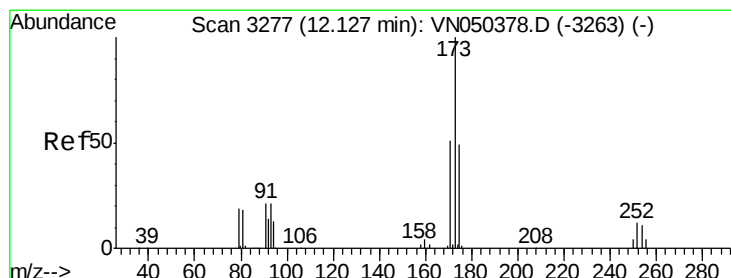
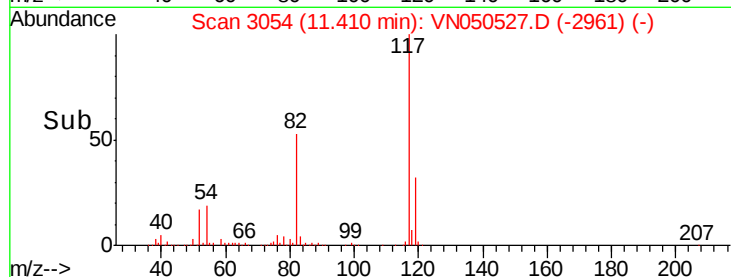
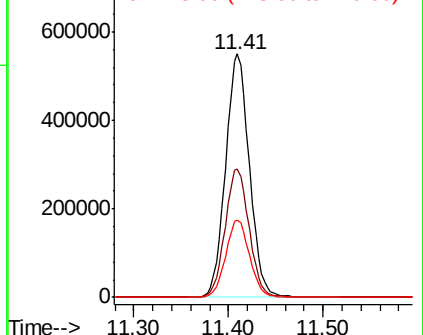
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050527.D
Acq: 10 Aug 2018 19:05

Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#06

Tot Ion:117 Resp: 959256
Ion Ratio Lower Upper
117 100
82 52.6 43.7 65.5
119 31.9 26.1 39.1

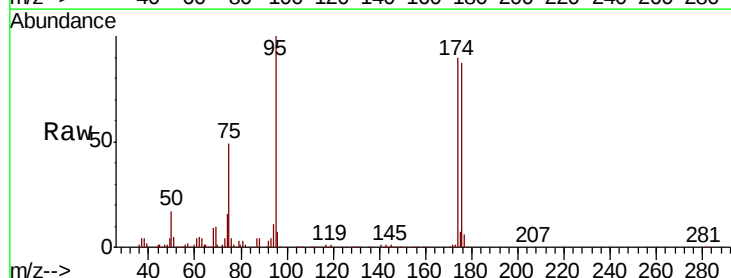


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

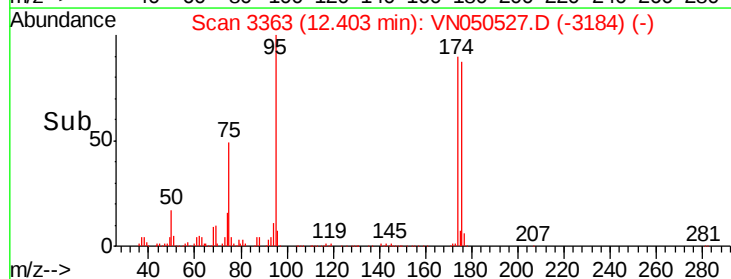
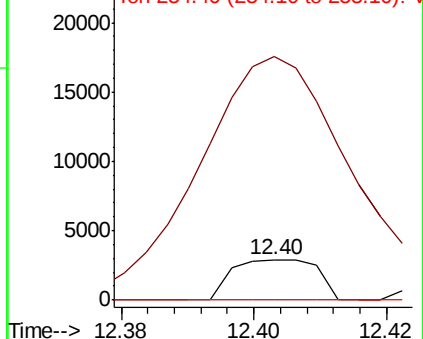


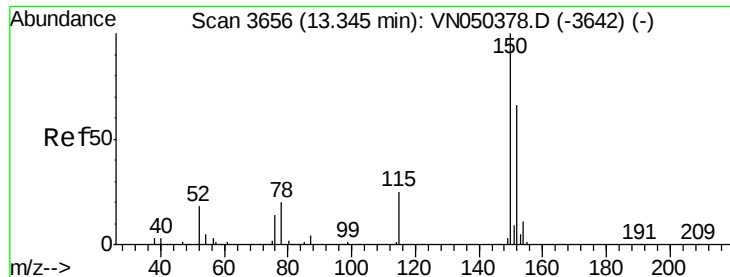
#71
Bromoform
Concen: 0.40 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050527.D
Acq: 10 Aug 2018 19:05

Tgt Ion:173 Resp: 2584
Ion Ratio Lower Upper
173 100
175 917.8 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: VN050527.D

Acq: 10 Aug 2018 19:05

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#06

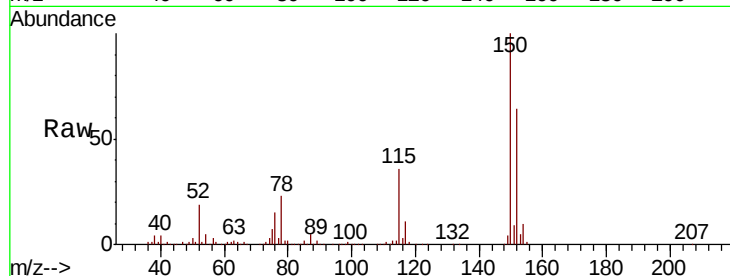
Tot Ion:152 Resp: 375995

Ion Ratio Lower Upper

152 100

115 56.1 27.8 83.3

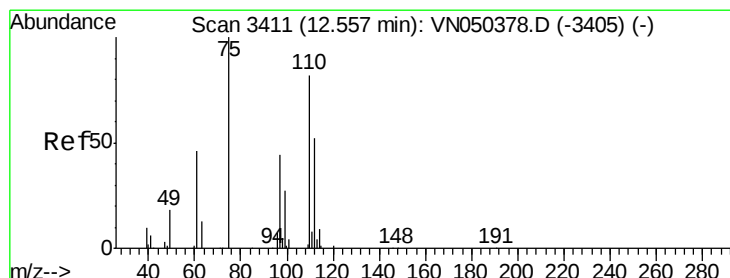
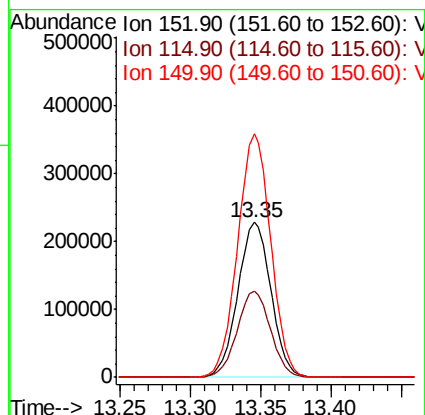
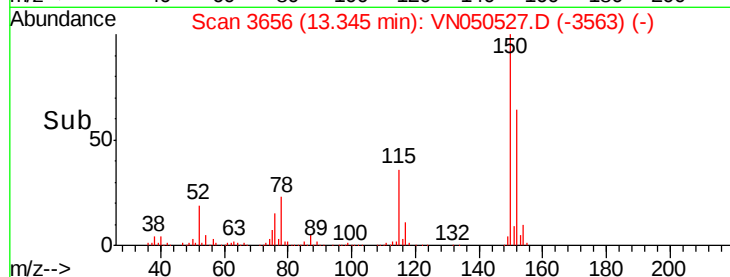
150 157.2 0.0 348.6



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: 30.99 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050527.D

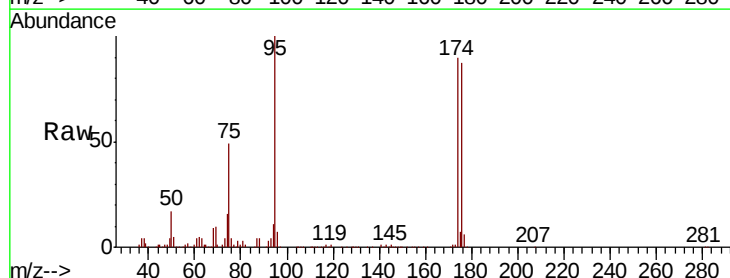
Acq: 10 Aug 2018 19:05

Tgt Ion: 75 Resp: 210886

Ion Ratio Lower Upper

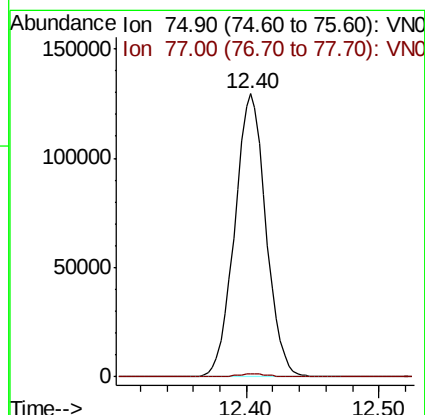
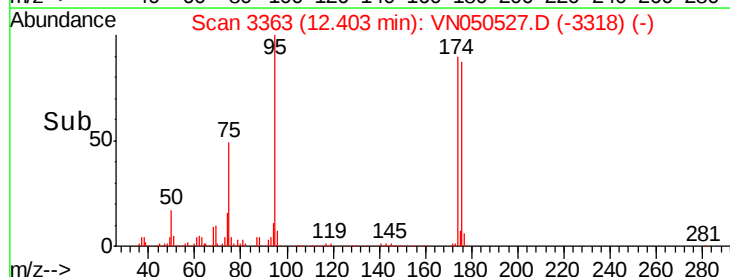
75 100

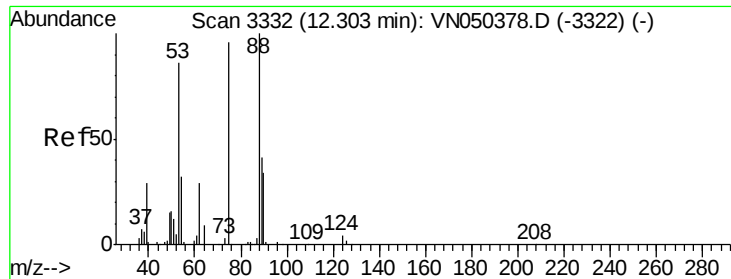
77 1.1 0.0 0.0#



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: 108.87 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#06

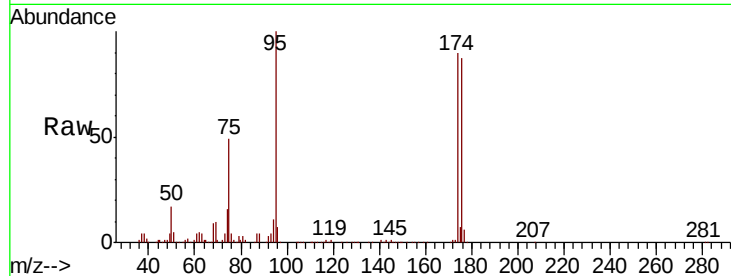
Tot Ion: 75 Resp: 210886

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

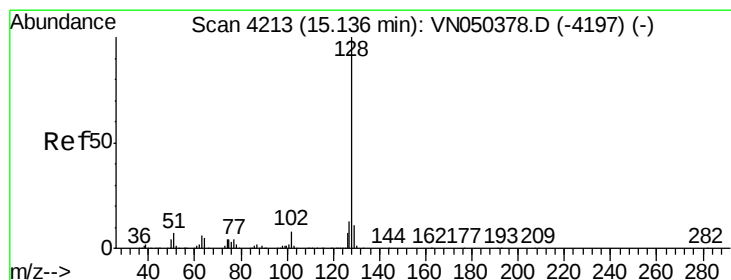
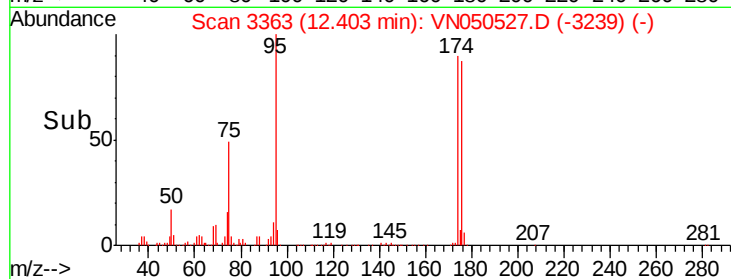
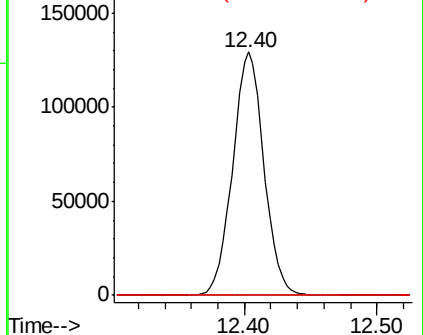
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 3.63 ug/l

RT: 15.15 min Scan# 4216

Delta R.T. 0.01 min

Lab File: VN050527.D

Acq: 10 Aug 2018 19:05

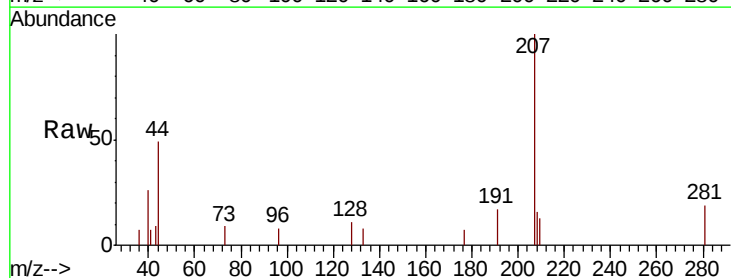
Tgt Ion: 128 Resp: 243

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

