

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051996.D
 Acq On : 24 Oct 2018 18:54
 Operator : MD\SY
 Sample : PB114120ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114120ZHE#06

Quant Time: Oct 25 01:49:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1148348	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1696680	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1603142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	728736	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	597951	58.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.94%	
35) Dibromofluoromethane	7.59	113	626546	57.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.74%	
50) Toluene-d8	10.09	98	2338512	59.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.54%	
62) 4-Bromofluorobenzene	12.40	95	738355	54.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.82%	

Target Compounds

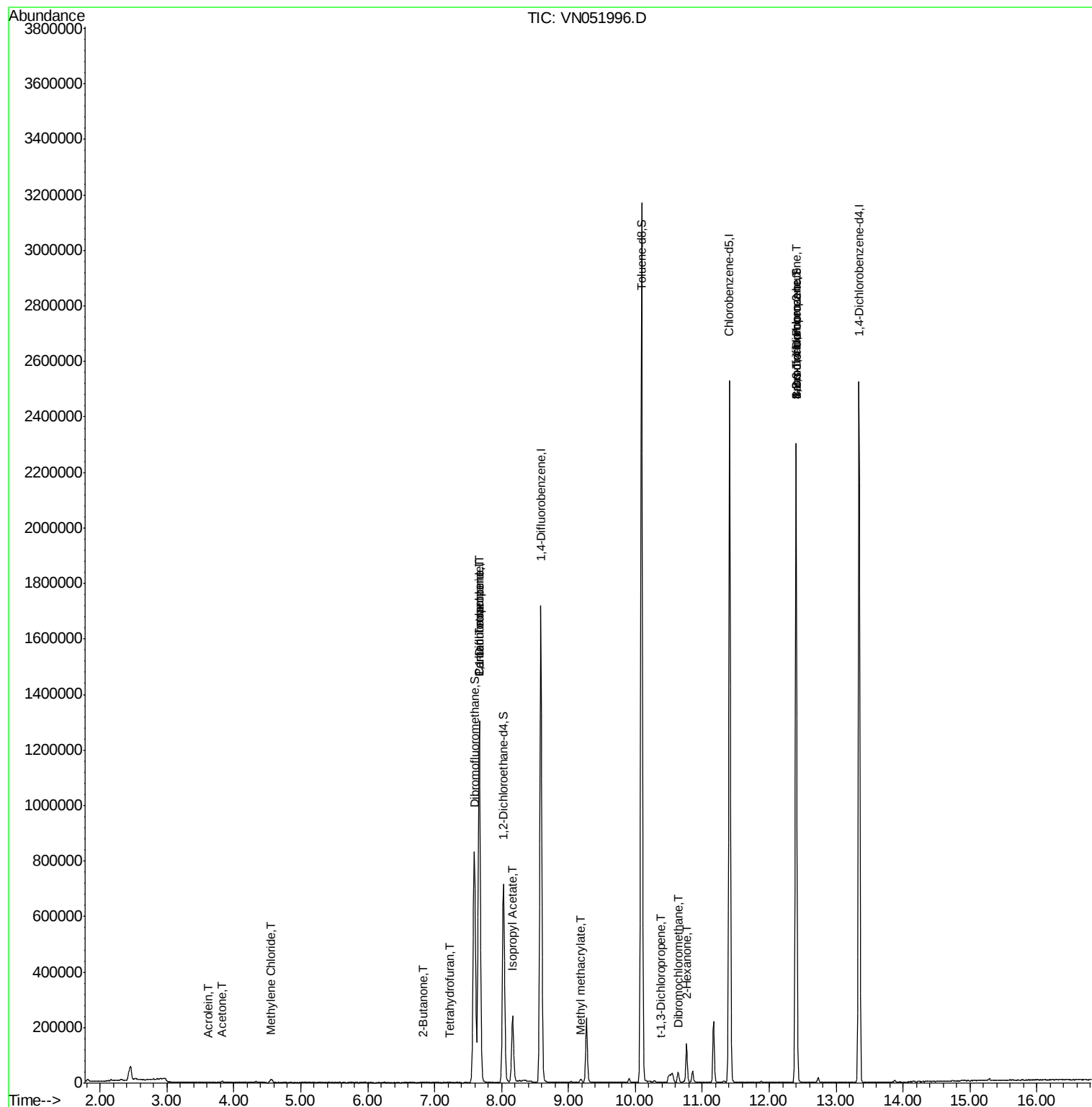
					Qvalue	
13) Acrolein	3.62	56	127	37.627	ug/l	99
16) Acetone	3.82	43	6554	3.890	ug/l	91
18) Methyl Acetate	4.33	43	5446	Below Cal		99
20) Methylene Chloride	4.55	84	9057	0.916	ug/l	95
25) 2-Butanone	6.83	43	725	0.302	ug/l #	39
29) Tetrahydrofuran	7.23	42	938	0.576	ug/l #	50
31) Cyclohexane	7.66	56	17520	Below Cal	#	20
36) 1,1-Dichloropropene	7.67	75	68696	5.278	ug/l #	47
37) Ethyl Acetate	6.94	43	203	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	102194	6.840	ug/l #	15
43) Isopropyl Acetate	8.17	43	267812	24.570	ug/l	99
48) Methyl methacrylate	9.18	41	6313	1.198	ug/l #	12
53) t-1,3-Dichloropropene	10.39	75	61	1.248	ug/l #	58
59) 2-Hexanone	10.77	43	16530	4.103	ug/l #	55
60) Dibromochloromethane	10.64	129	105	1.986	ug/l #	11
71) Bromoform	12.40	173	6088	4.348	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	358757	47.660	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	358757	149.896	ug/l #	12

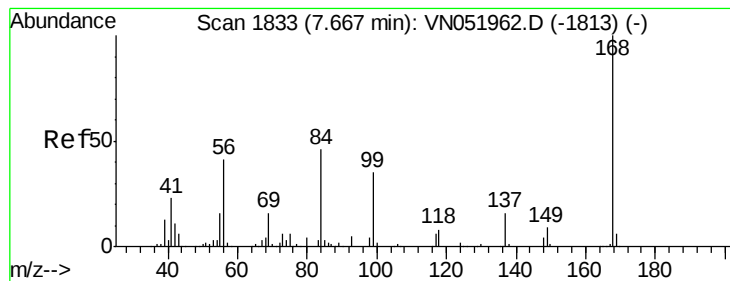
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

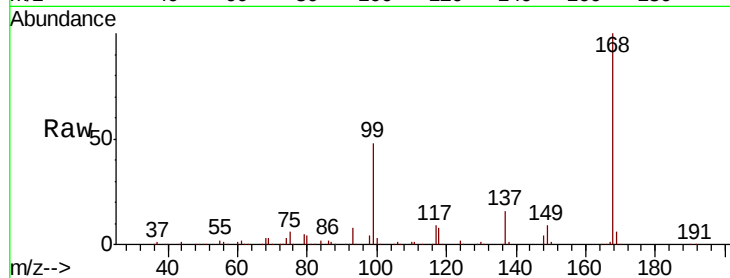
PB114120ZHE#06

Tot Ion:168 Resp: 1148348

Ion Ratio Lower Upper

168 100

99 47.6 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051996.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051996.D (-1740) (-)

7.67

500000

400000

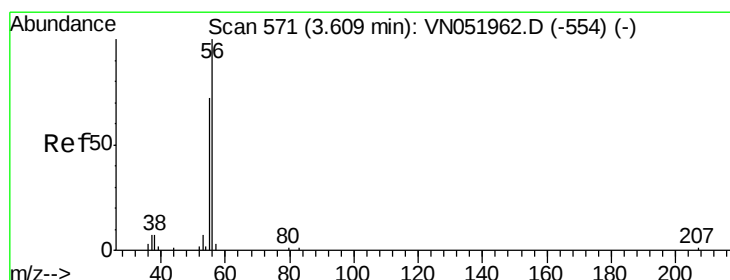
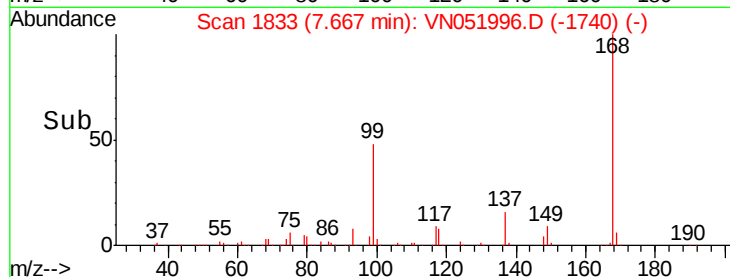
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 37.627 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN051996.D

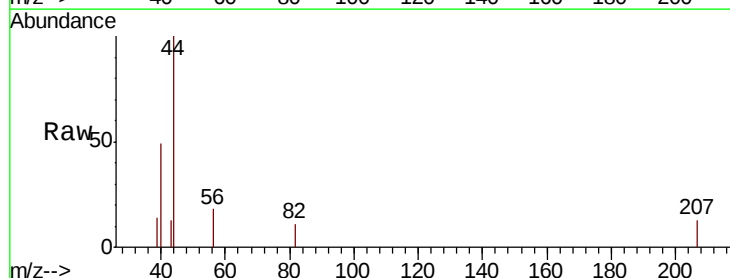
Acq: 24 Oct 2018 18:54

Tgt Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 70.1 56.6 84.8



Abundance Ion 56.00 (55.70 to 56.70): VN051996.D (-478) (-)

Ion 55.00 (54.70 to 55.70): VN051996.D (-478) (-)

3.62

300

250

200

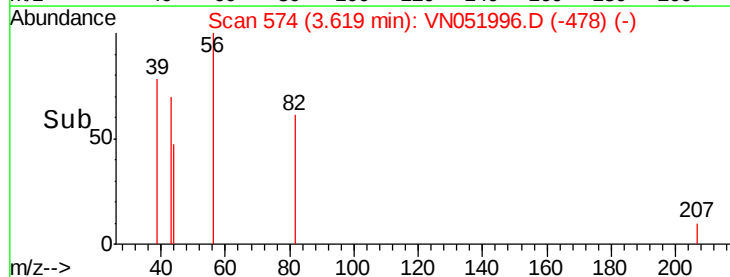
150

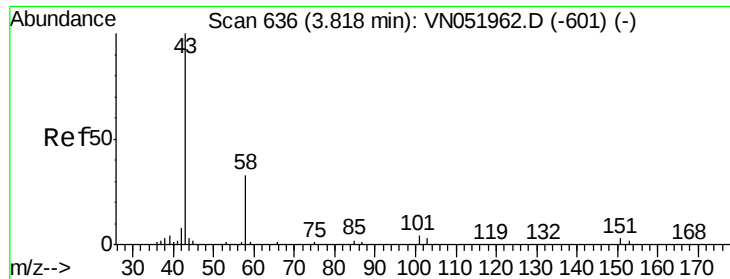
100

50

0

Time-->





#16

Acetone

Concen: 3.890 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

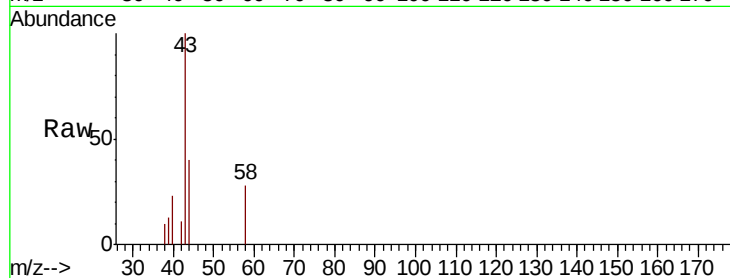
PB114120ZHE#06

Tot Ion: 43 Resp: 6554

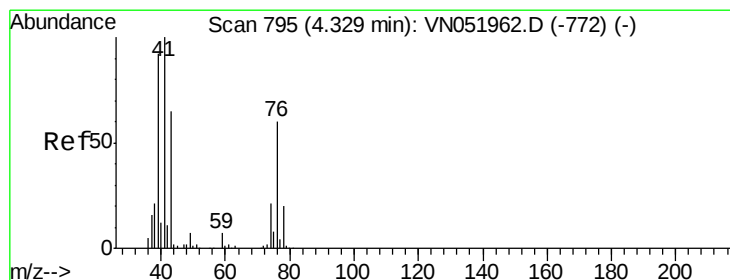
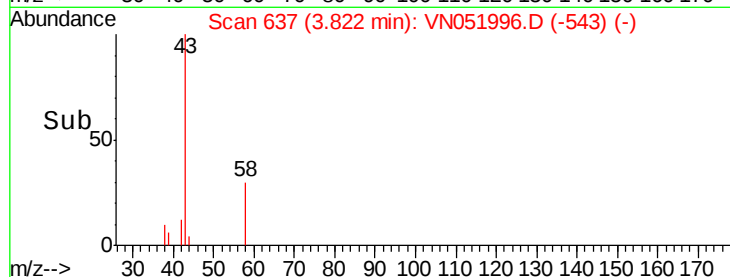
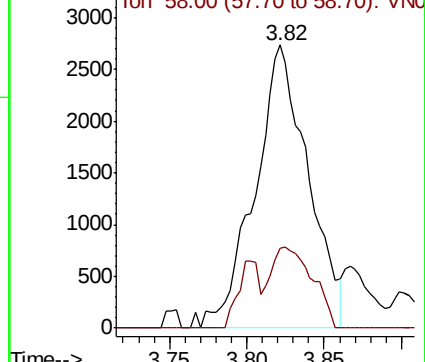
Ion Ratio Lower Upper

43 100

58 28.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN051996.D (-601) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051996.D

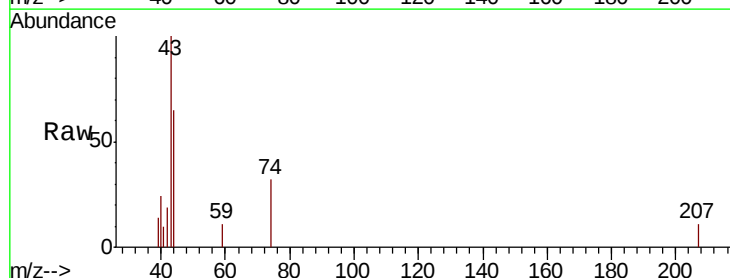
Acq: 24 Oct 2018 18:54

Tgt Ion: 43 Resp: 5446

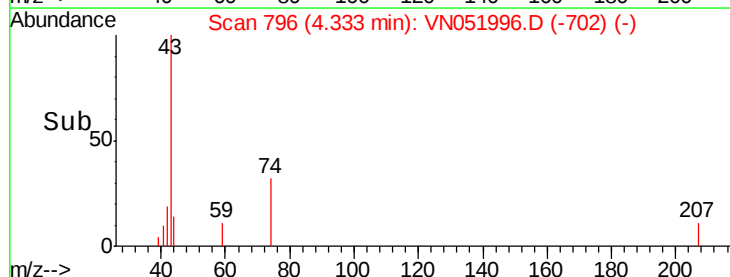
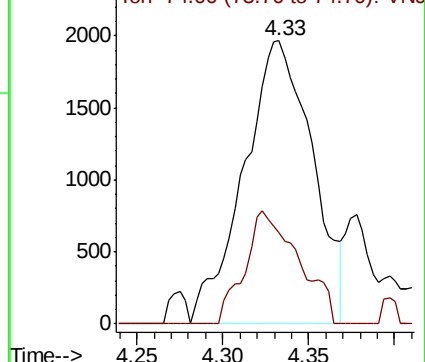
Ion Ratio Lower Upper

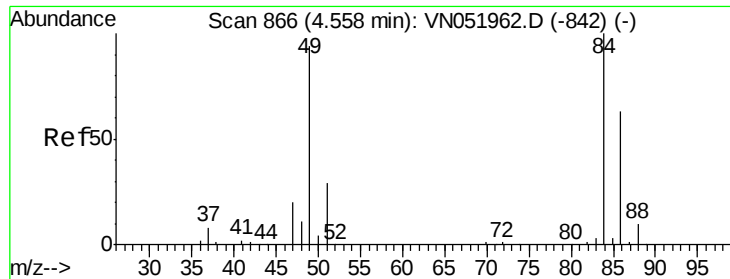
43 100

74 31.5 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN051996.D (-772) (-)

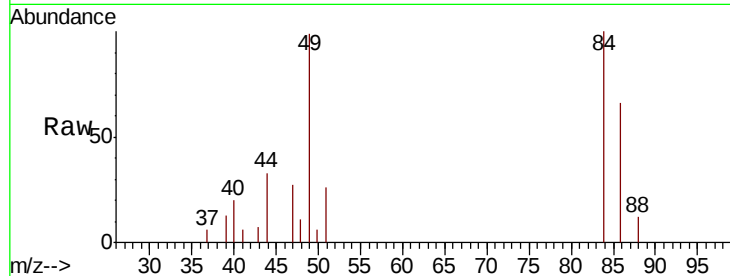




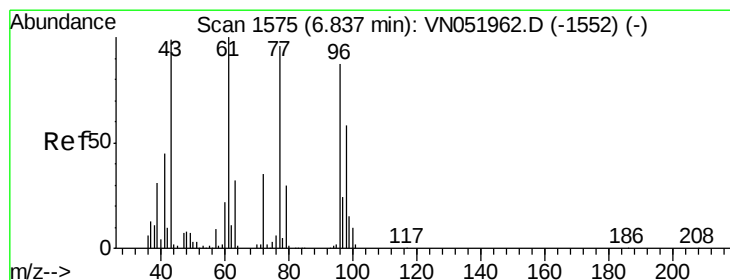
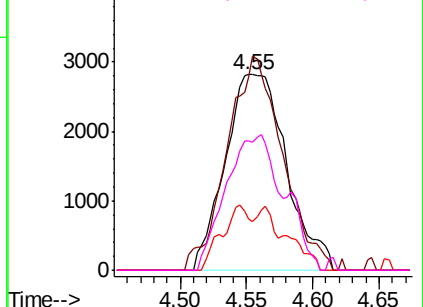
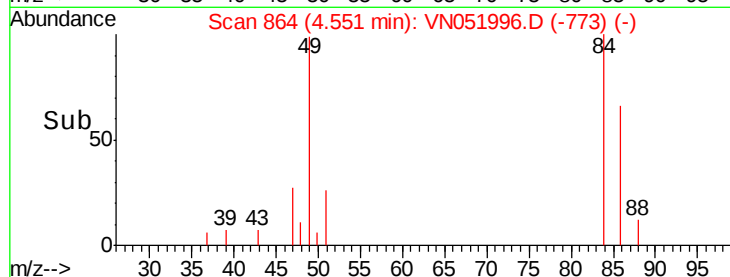
#20
Methvlene Chloride
Concen: 0.916 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.01 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#06

Tot Ion: 84 Resp: 9057
Ion Ratio Lower Upper
84 100
49 99.0 75.4 113.0
51 26.2 23.1 34.7
86 66.2 50.2 75.4

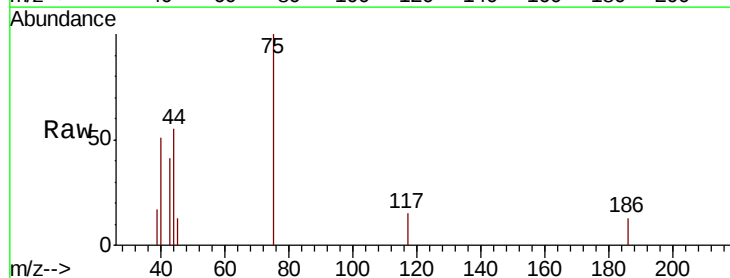


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

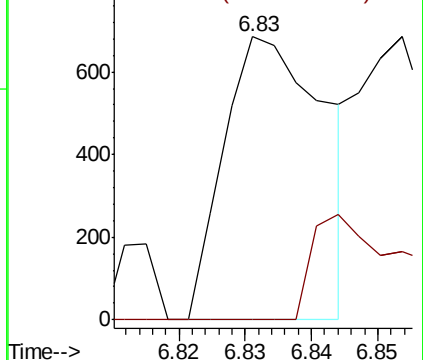
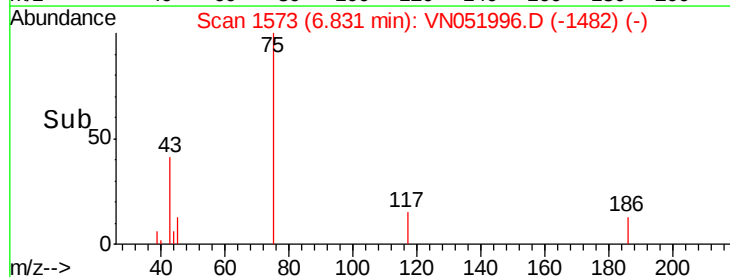


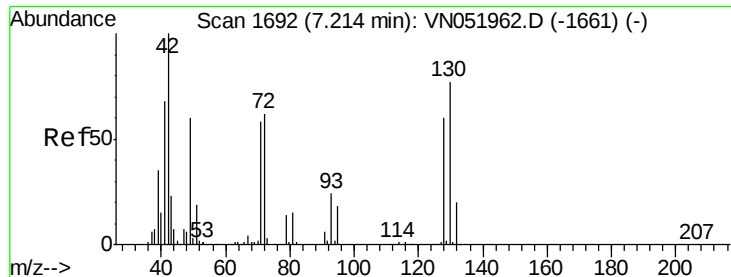
#25
2-Butanone
Concen: 0.302 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

Tgt Ion: 43 Resp: 725
Ion Ratio Lower Upper
43 100
72 0.0 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

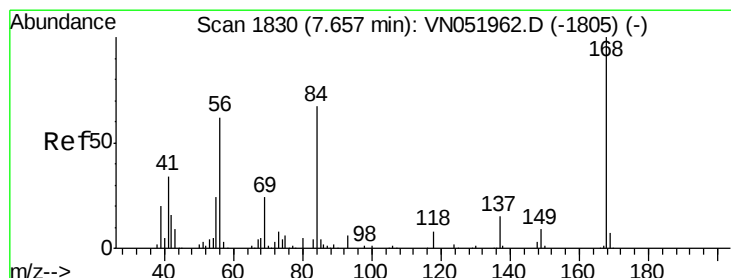
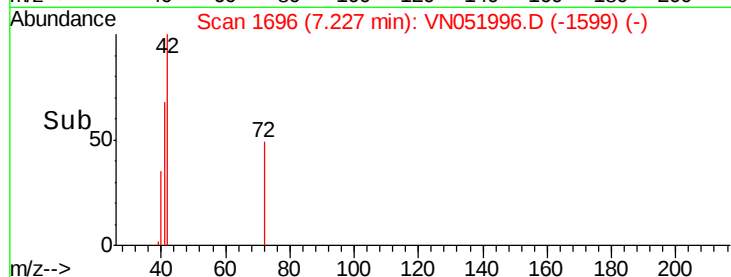
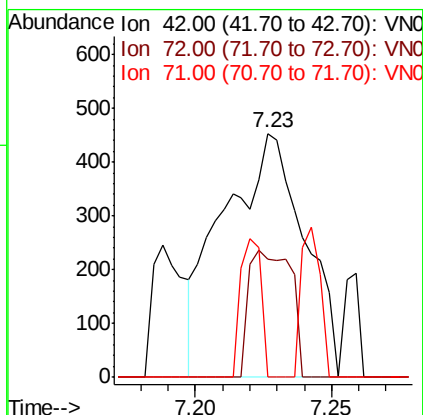
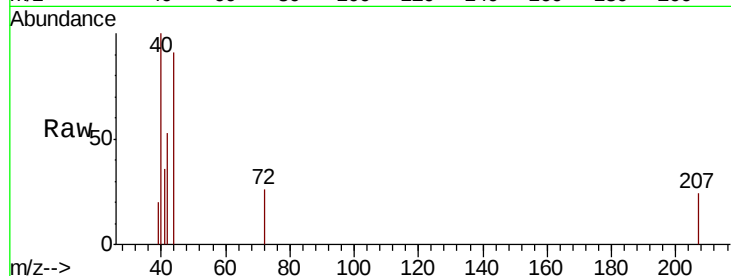




#29
Tetrahydrofuran
Concen: 0.576 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

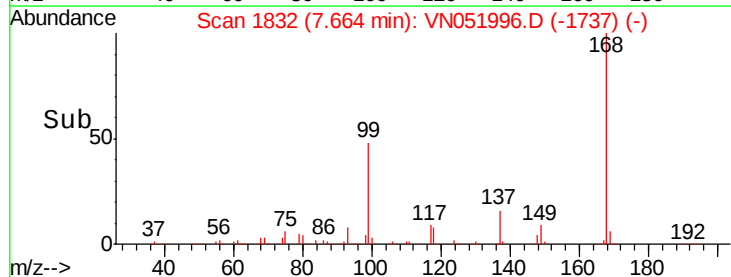
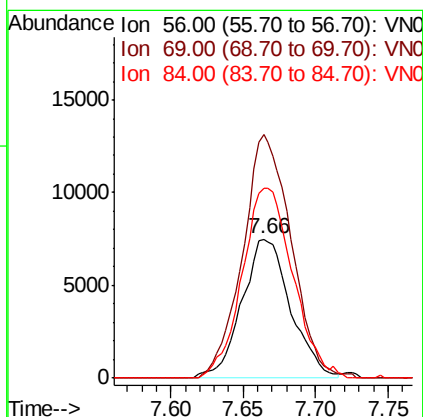
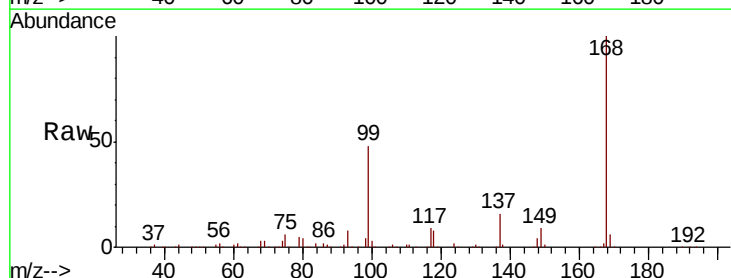
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#06

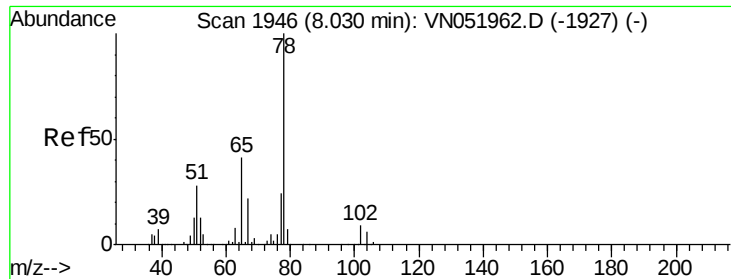
Tot Ion: 42 Resp: 938
Ion Ratio Lower Upper
42 100
72 26.7 47.5 71.3#
71 14.4 45.4 68.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

Tgt Ion: 56 Resp: 17520
Ion Ratio Lower Upper
56 100
69 175.6 31.2 46.8#
84 137.3 86.3 129.5#

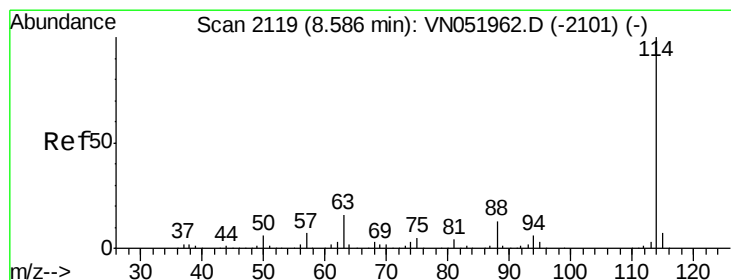
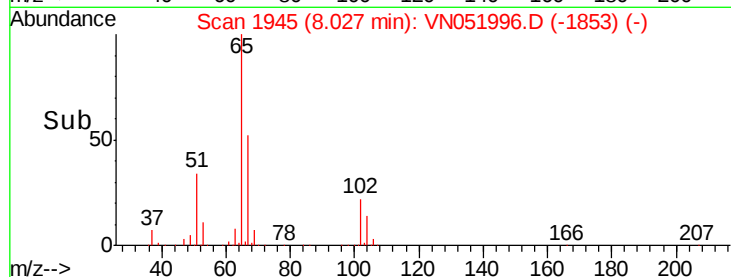
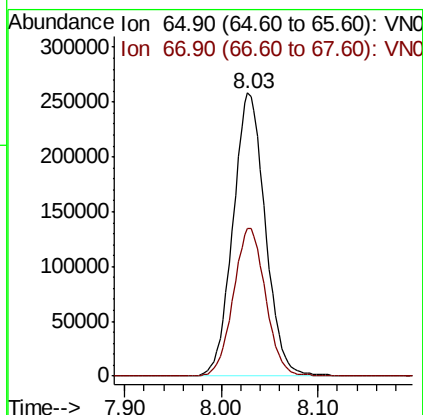
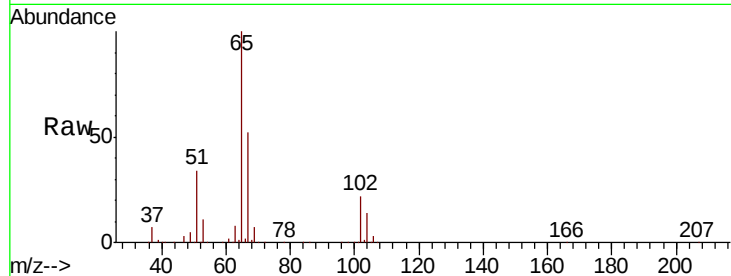




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051996.D
 Acq: 24 Oct 2018 18:54

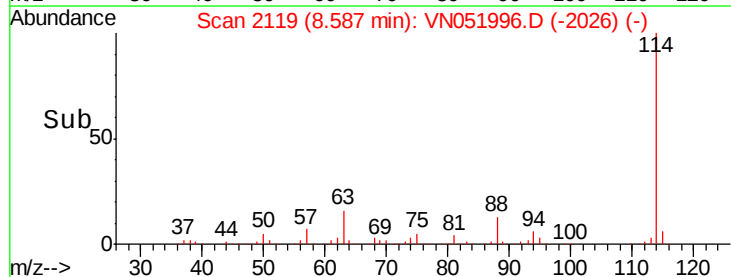
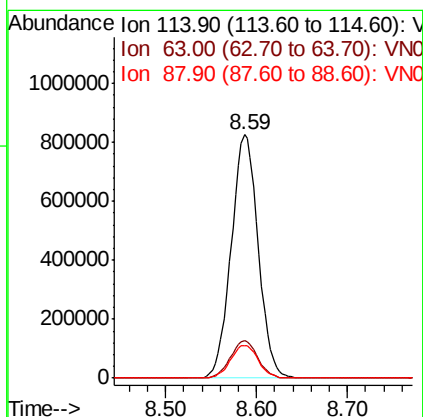
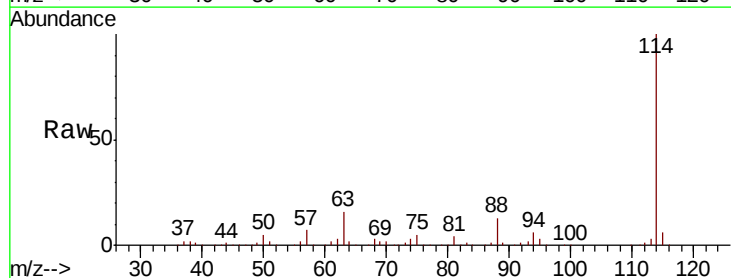
Instrument :
 MSVOA_N
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 PB114120ZHE#06

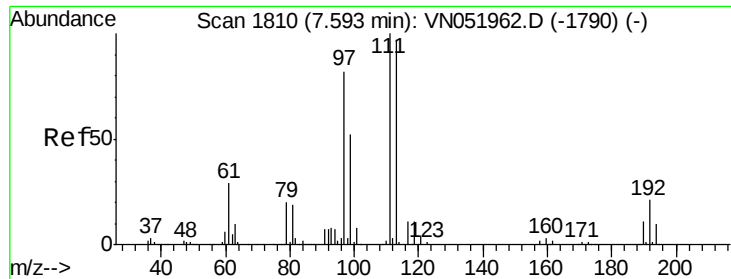
Tot Ion: 65 Resp: 597951
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051996.D
 Acq: 24 Oct 2018 18:54

Tgt Ion: 114 Resp: 1696680
 Ion Ratio Lower Upper
 114 100
 63 15.5 0.0 31.2
 88 13.5 0.0 27.0

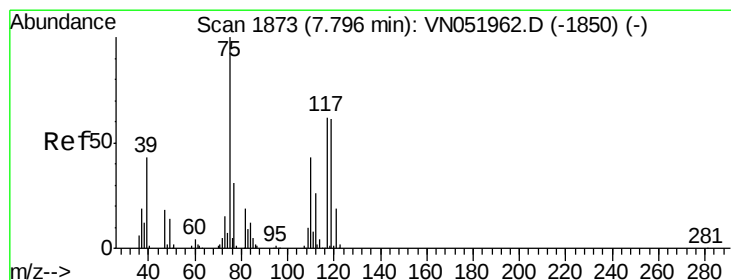
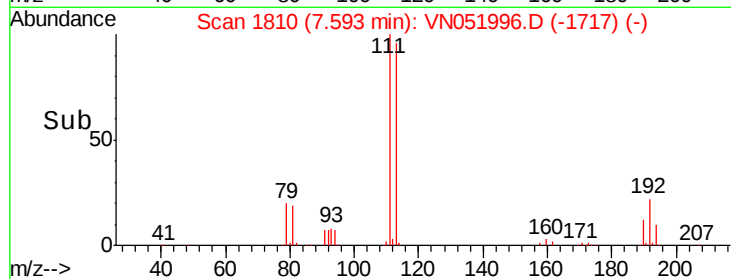
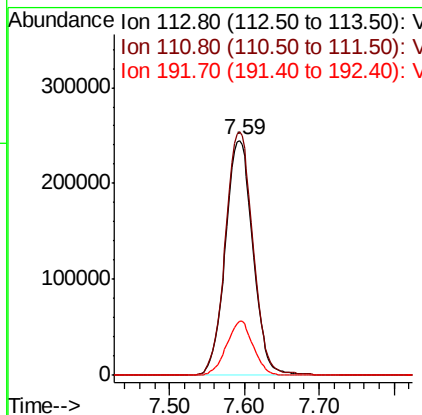
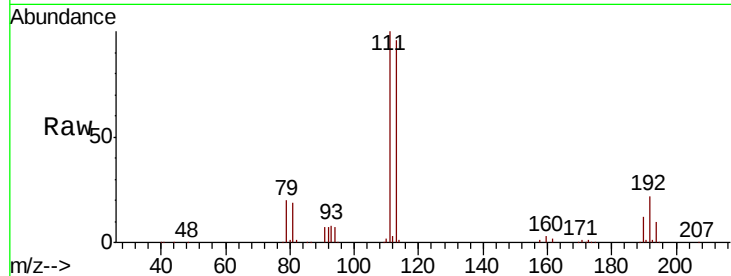




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051996.D
 Acq: 24 Oct 2018 18:54

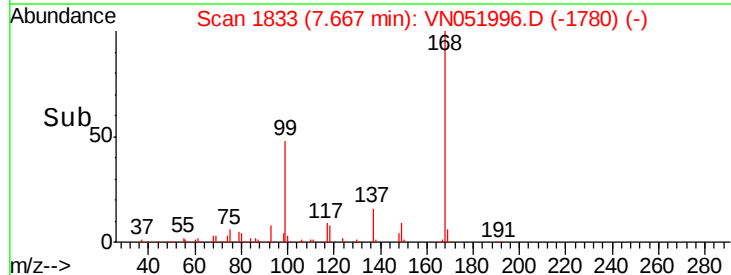
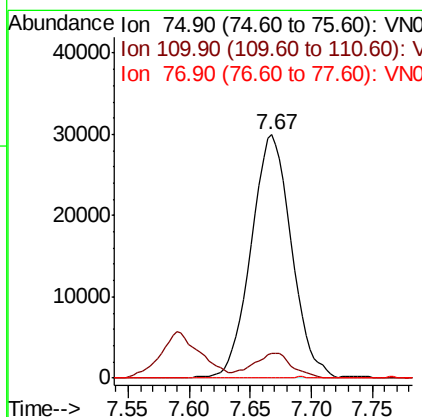
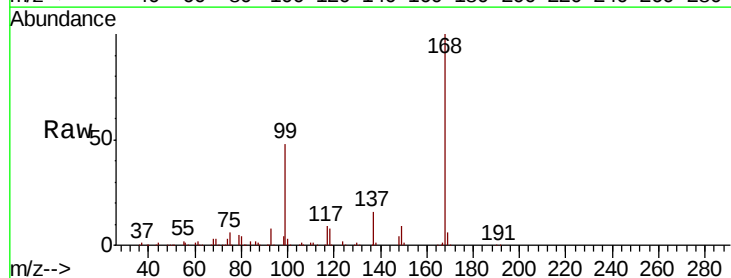
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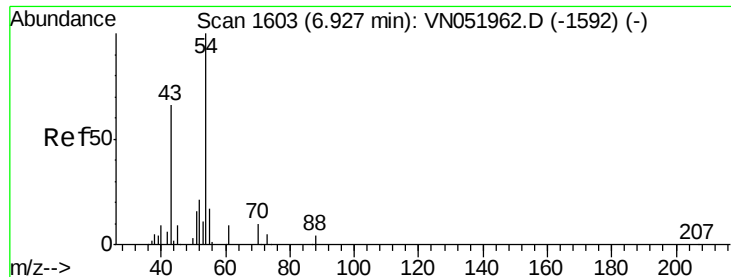
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	80.7	121.1
192	22.4	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 5.278 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051996.D
 Acq: 24 Oct 2018 18:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	20.9	62.8#
77	0.0	24.9	37.3#

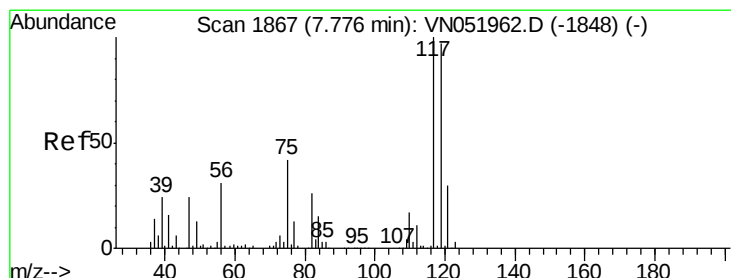
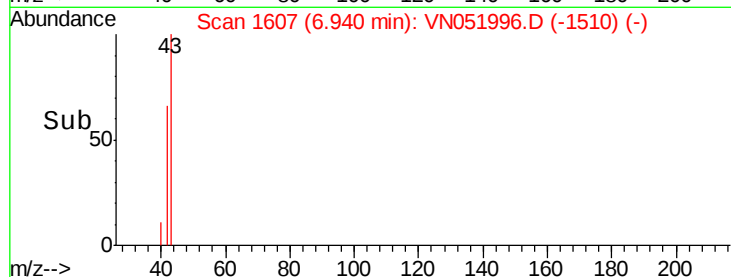
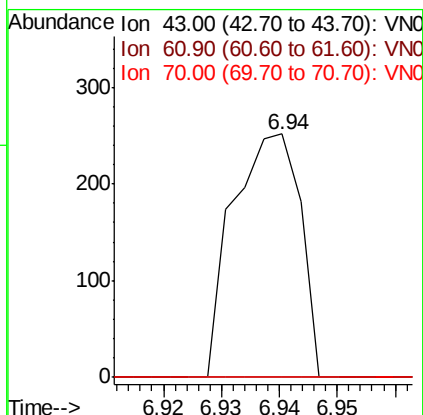
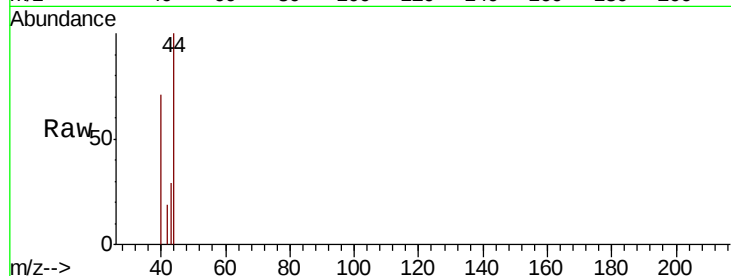




#37
Ethyl Acetate
Concen: Below Cal
RT: 6.94 min Scan# 1607
Delta R.T. 0.01 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

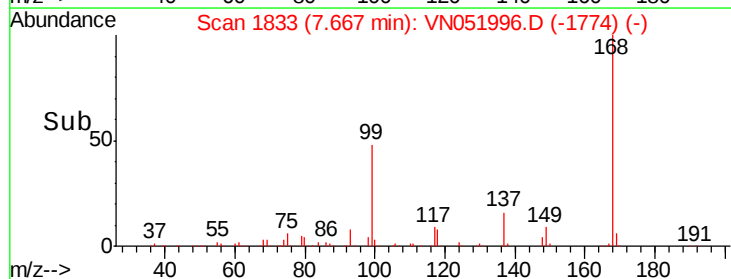
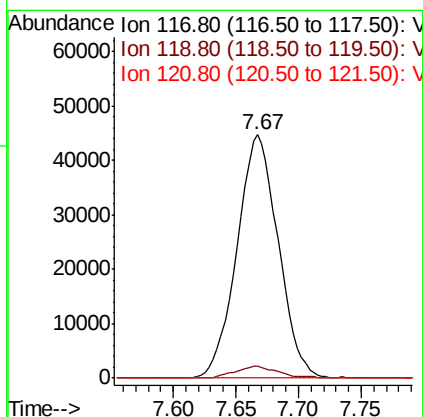
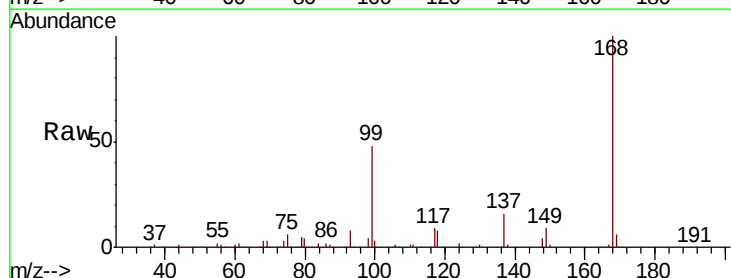
Instrument :
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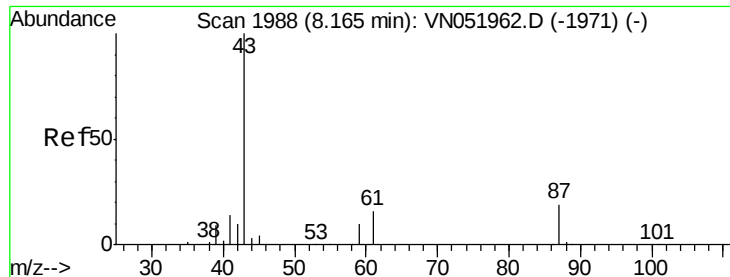
Tot Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
61 0.0 13.5 20.3#
70 0.0 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 6.840 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

Tgt Ion: 117 Resp: 102194
Ion Ratio Lower Upper
117 100
119 4.6 77.4 116.0#
121 0.0 24.2 36.4#





#43

Isopropyl Acetate

Concen: 24.570 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#06

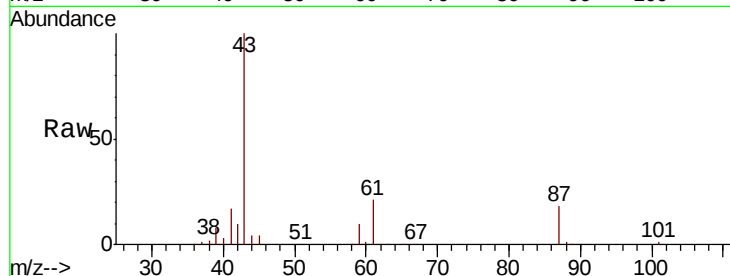
Tot Ion: 43 Resp: 267812

Ion Ratio Lower Upper

43 100

61 21.2 17.2 25.8

87 18.3 15.2 22.8

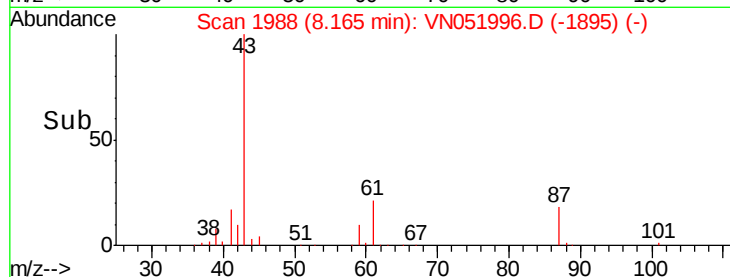


Abundance Ion 43.00 (42.70 to 43.70): VN051996.D (-1971) (-)

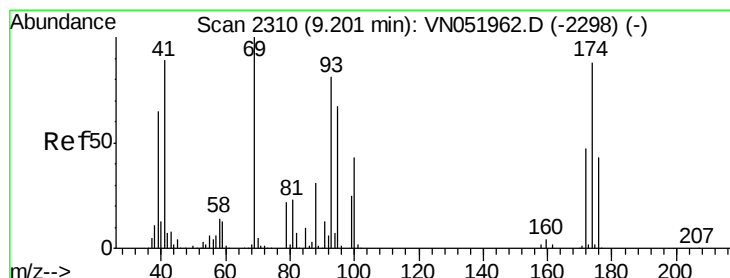
Ion 61.00 (60.70 to 61.70): VN051996.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN051996.D (-1971) (-)

8.17



Time-->



#48

Methyl methacrylate

Concen: 1.198 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

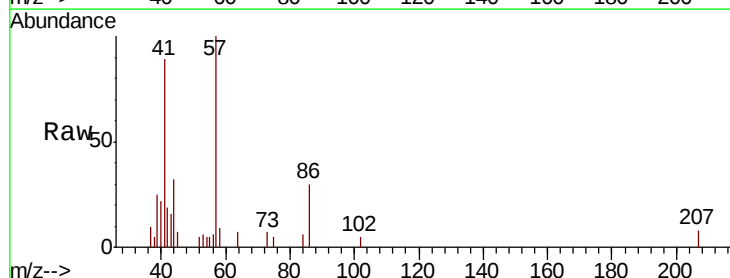
Tgt Ion: 41 Resp: 6313

Ion Ratio Lower Upper

41 100

69 0.0 92.2 138.4#

39 23.9 60.2 90.4#

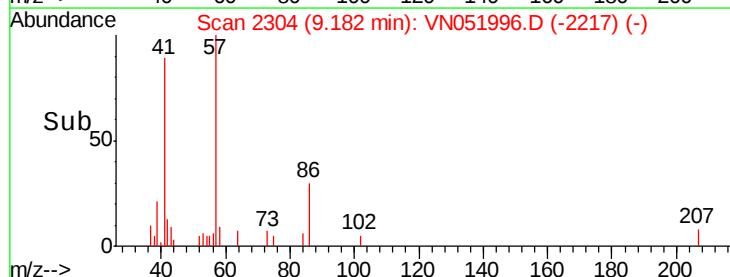


Abundance Ion 41.00 (40.70 to 41.70): VN051996.D (-2298) (-)

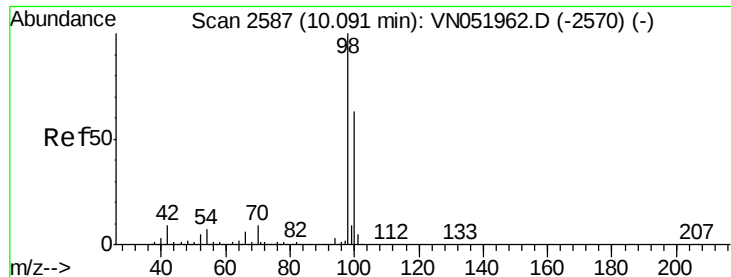
Ion 69.00 (68.70 to 69.70): VN051996.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051996.D (-2298) (-)

9.18



Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

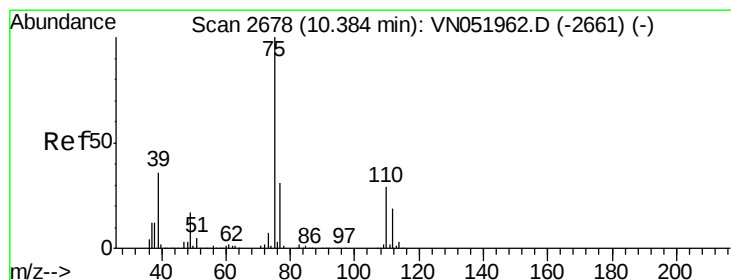
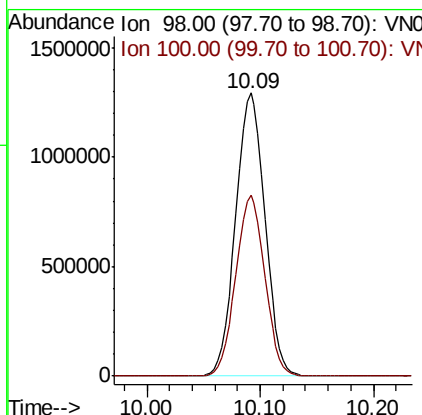
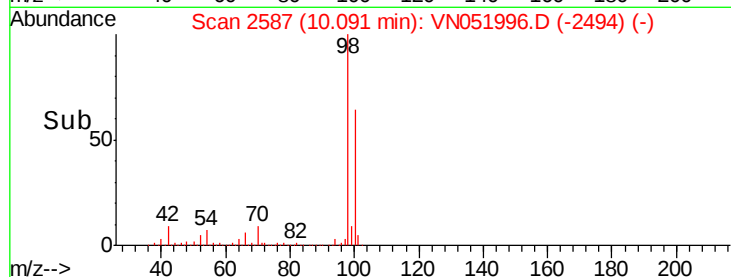
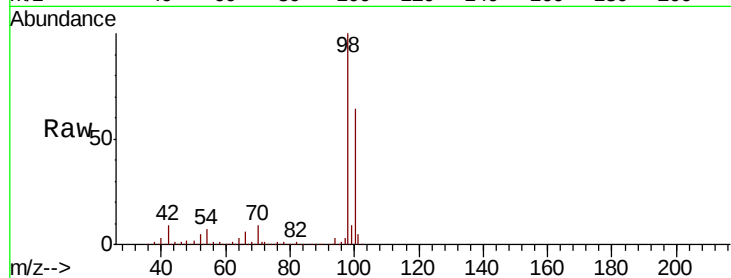
PB114120ZHE#06

Tot Ion: 98 Resp: 2338512

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#53

t-1,3-Dichloropropene

Concen: 1.248 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.00 min

Lab File: VN051996.D

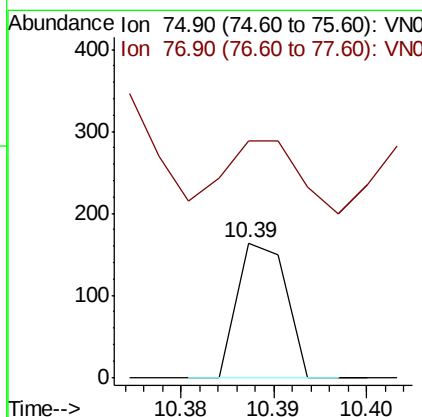
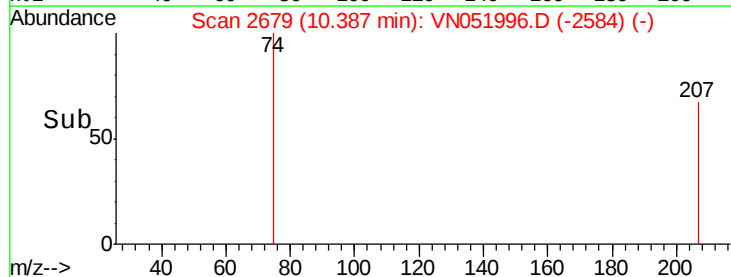
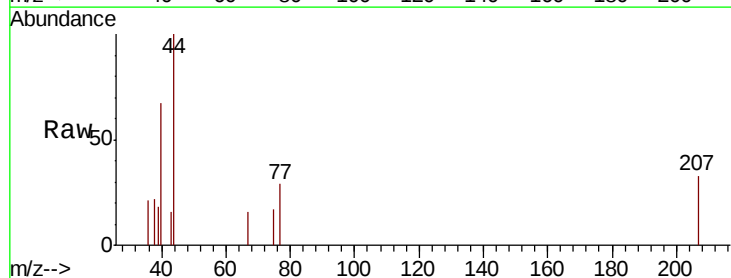
Acq: 24 Oct 2018 18:54

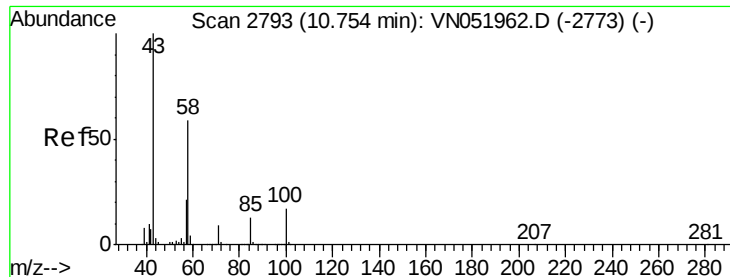
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

77 54.3 25.0 37.4#

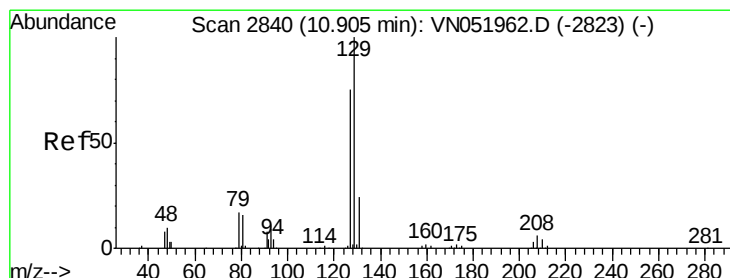
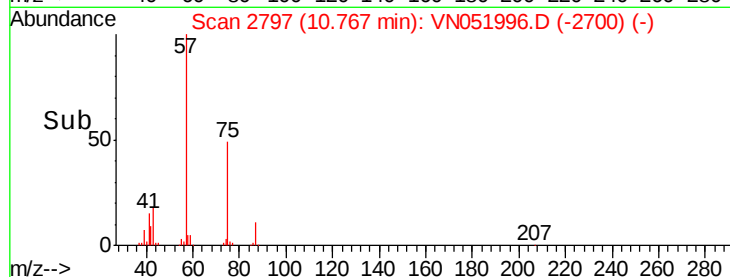
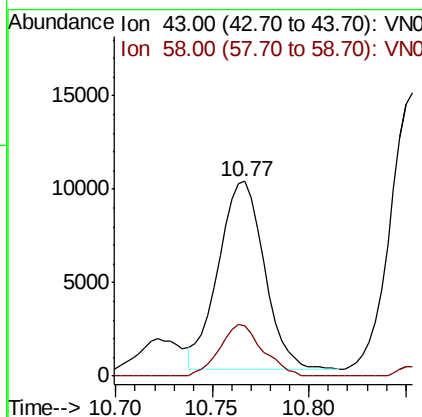
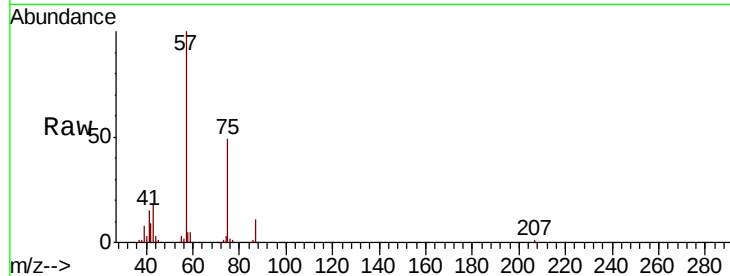




#59
2-Hexanone
Concen: 4.103 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

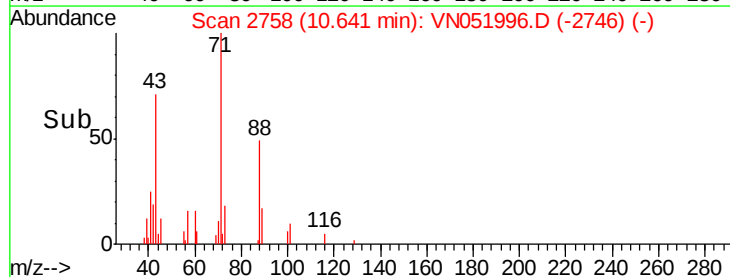
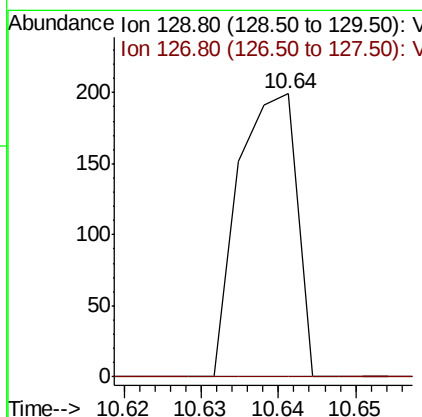
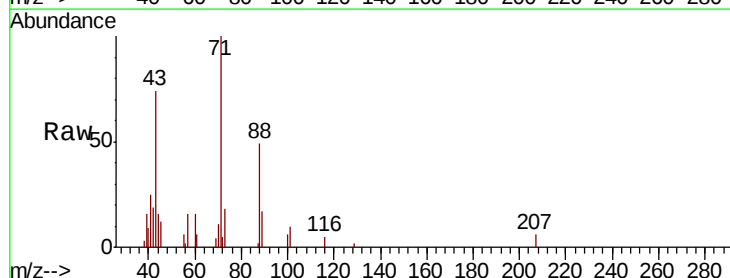
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#06

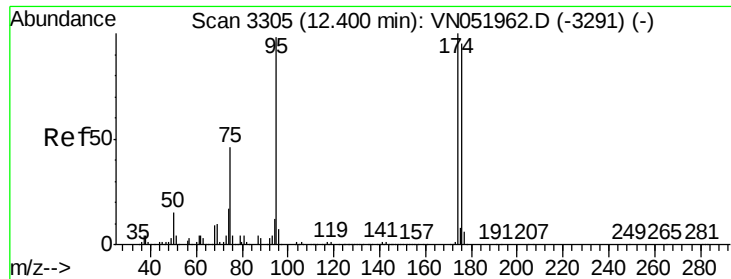
Tot Ion: 43 Resp: 16530
Ion Ratio Lower Upper
43 100
58 26.0 29.9 89.8#



#60
Dibromochloromethane
Concen: 1.986 ug/l
RT: 10.64 min Scan# 2758
Delta R.T. -0.26 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

Tgt Ion: 129 Resp: 105
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#

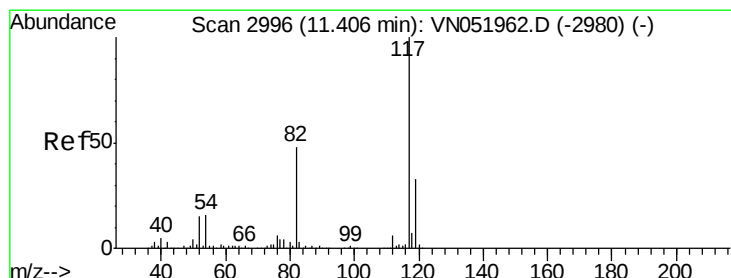
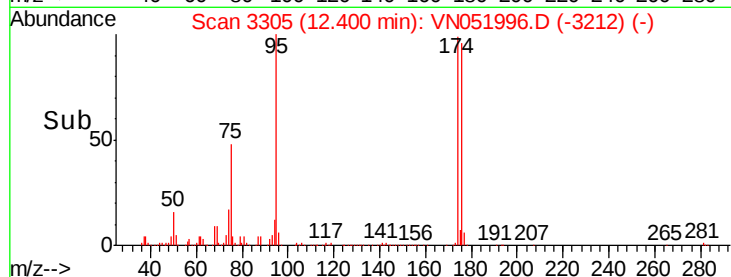
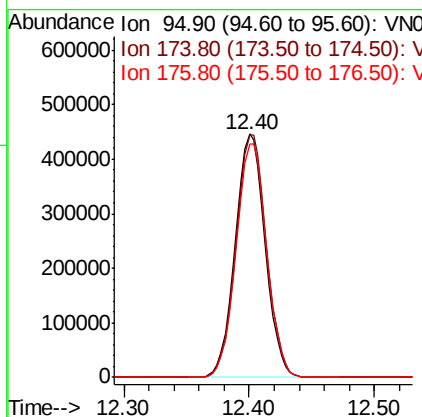
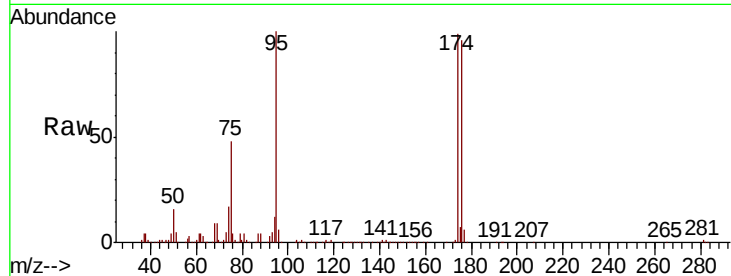




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

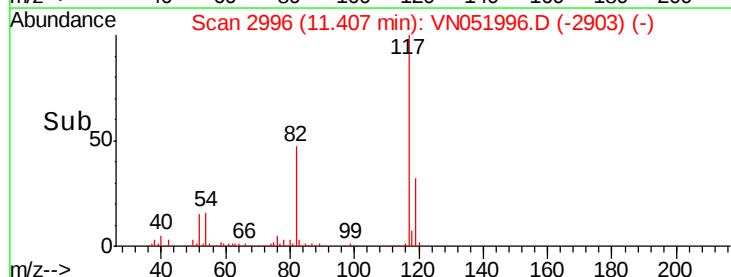
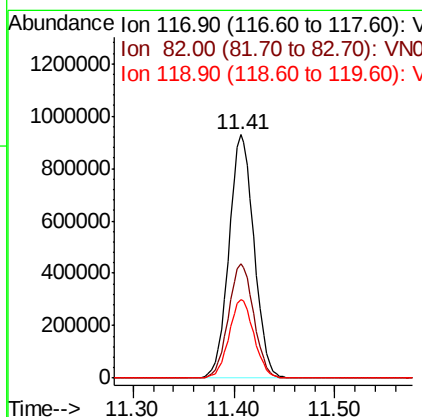
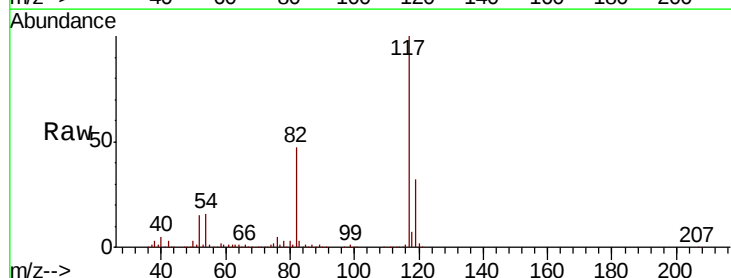
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#06

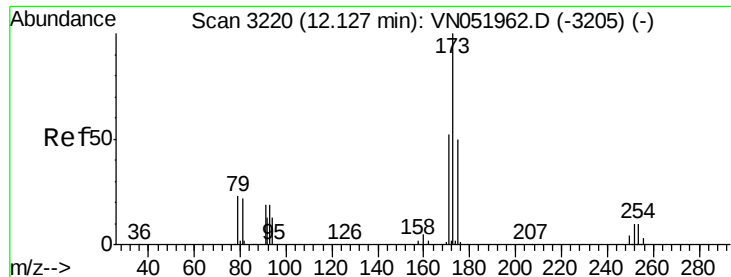
Tot Ion: 95 Resp: 738355
Ion Ratio Lower Upper
95 100
174 101.0 0.0 206.0
176 97.8 0.0 198.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051996.D
Acq: 24 Oct 2018 18:54

Tgt Ion: 117 Resp: 1603142
Ion Ratio Lower Upper
117 100
82 46.8 38.1 57.1
119 32.4 26.4 39.6





#71

Bromoform

Concen: 4.348 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#06

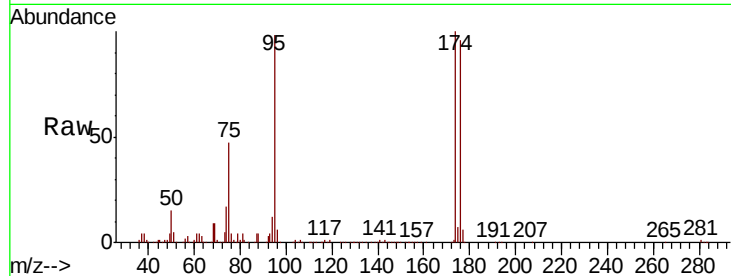
Tot Ion:173 Resp: 6088

Ion Ratio Lower Upper

173 100

175 778.7 24.6 74.0#

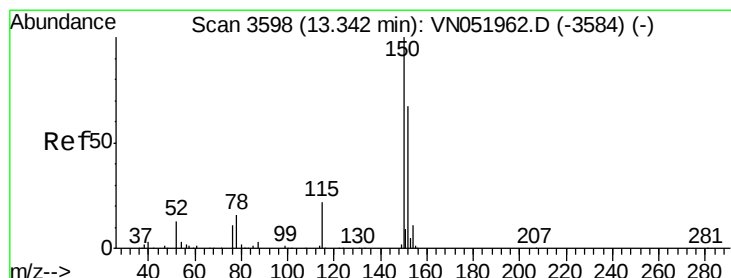
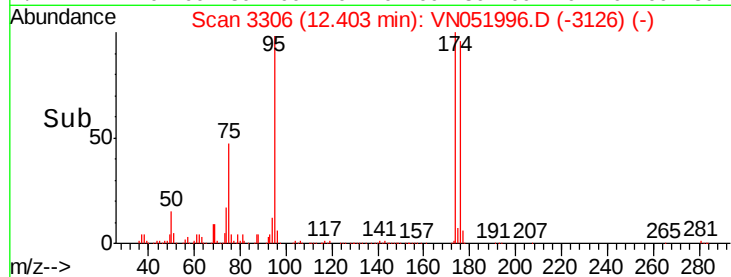
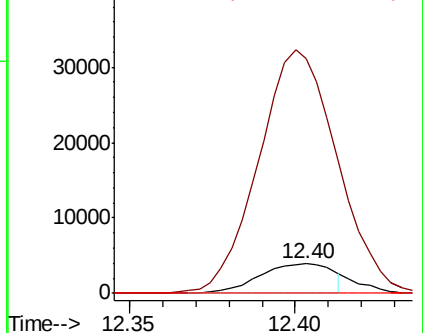
254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

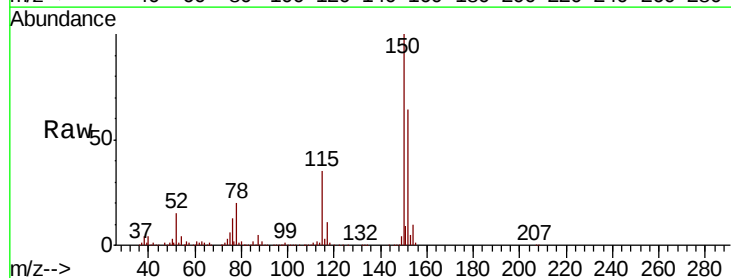
Tgt Ion:152 Resp: 728736

Ion Ratio Lower Upper

152 100

115 53.7 25.8 77.3

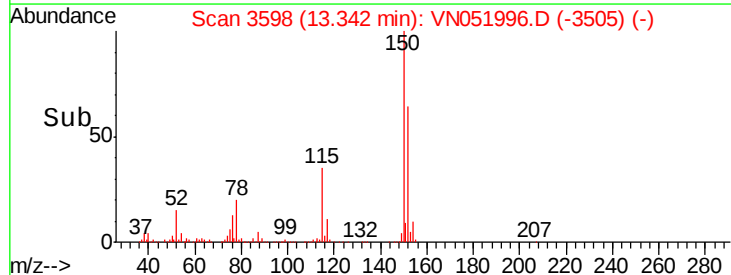
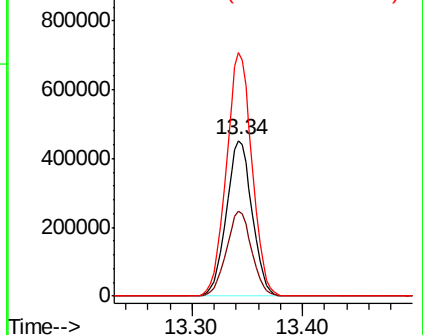
150 155.8 0.0 344.4

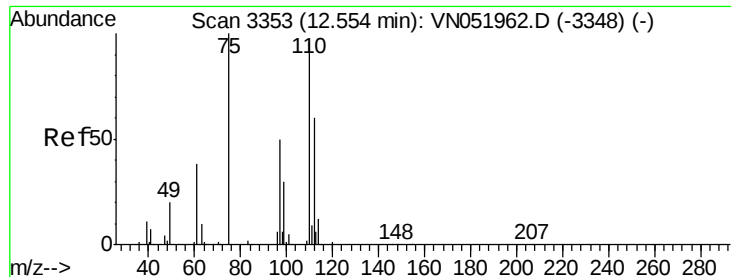


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 47.660 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

Instrument :

MSVOA_N

ClientSampleId :

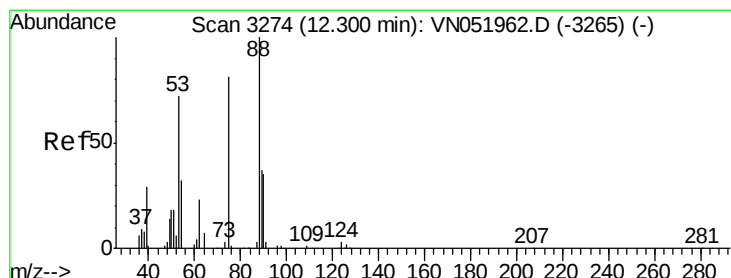
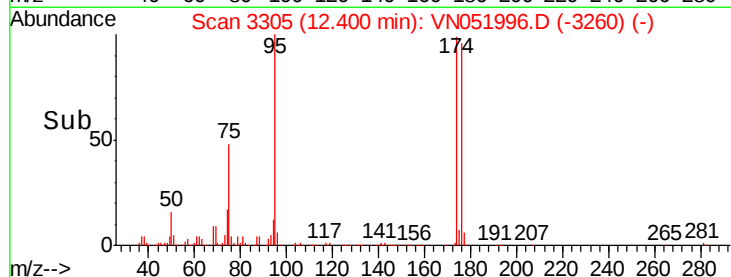
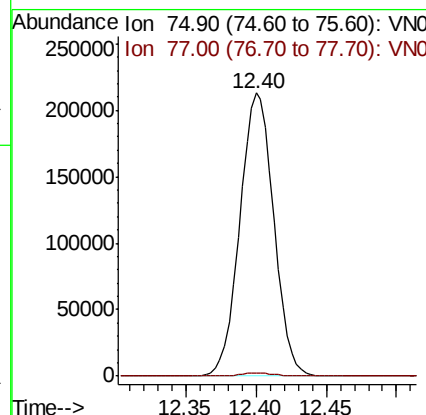
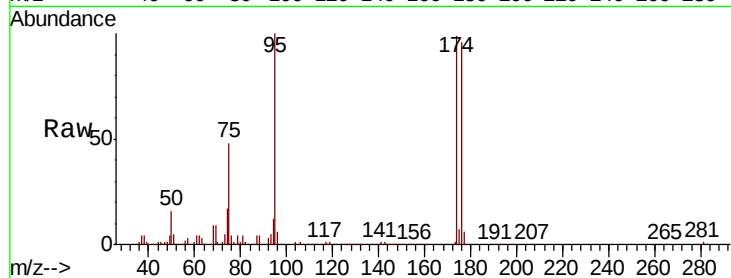
PB114120ZHE#06

Tot Ion: 75 Resp: 358757

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 149.896 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051996.D

Acq: 24 Oct 2018 18:54

Tgt Ion: 75 Resp: 358757

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#

