

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051994.D
 Acq On : 24 Oct 2018 18:00
 Operator : MD\SY
 Sample : PB114120ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114120ZHE#10

Quant Time: Oct 25 01:48:32 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

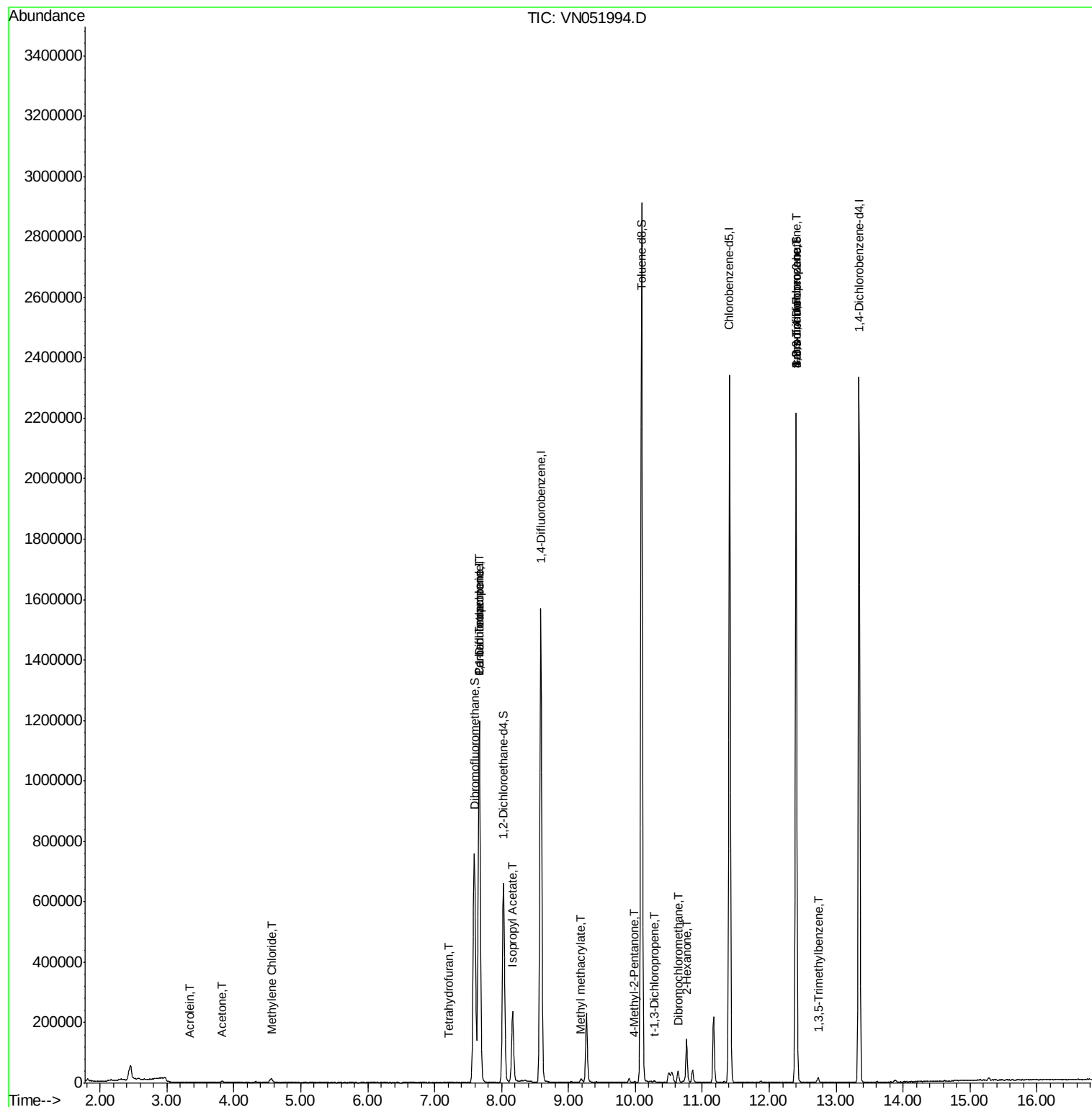
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1069217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1559967	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1474906	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	679083	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	552765	58.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.10%	
35) Dibromofluoromethane	7.59	113	577320	58.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.00%	
50) Toluene-d8	10.09	98	2154531	59.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.80%	
62) 4-Bromofluorobenzene	12.40	95	682887	55.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.46%	
Target Compounds						
					Qvalue	
13) Acrolein	3.34	56	33	37.371	ug/l #	14
16) Acetone	3.82	43	7114	4.534	ug/l #	79
18) Methyl Acetate	4.32	43	5974	Below Cal	#	73
20) Methylene Chloride	4.56	84	8668	0.942	ug/l	94
29) Tetrahydrofuran	7.21	42	340	0.224	ug/l #	67
31) Cyclohexane	7.67	56	16700	Below Cal	#	24
36) 1,1-Dichloropropene	7.67	75	63698	5.323	ug/l #	47
37) Ethyl Acetate	6.91	43	192	Below Cal	#	64
38) Carbon Tetrachloride	7.66	117	93680	6.819	ug/l #	15
43) Isopropyl Acetate	8.16	43	263296	26.273	ug/l	99
48) Methyl methacrylate	9.18	41	5678	1.172	ug/l #	5
51) 4-Methyl-2-Pentanone	9.98	43	1375	0.249	ug/l #	32
53) t-1,3-Dichloropropene	10.30	75	36	1.247	ug/l	90
59) 2-Hexanone	10.76	43	18462	4.985	ug/l #	52
60) Dibromochloromethane	10.63	129	58	1.983	ug/l #	11
71) Bromoform	12.40	173	5866	4.379	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	334781	47.727	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7140	0.207	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	334781	150.103	ug/l #	12

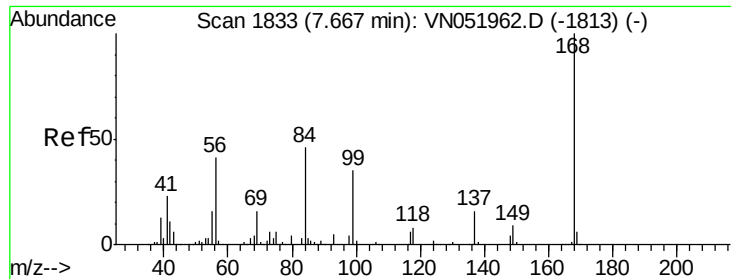
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

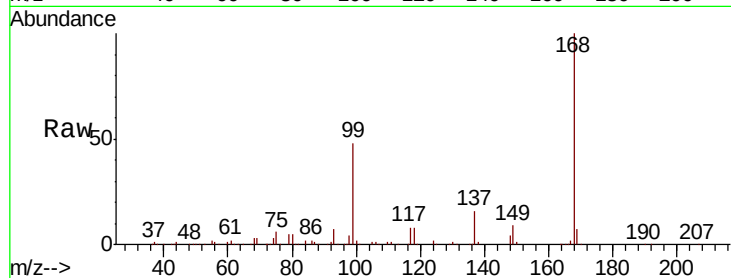
PB114120ZHE#10

Tot Ion:168 Resp: 1069217

Ion Ratio Lower Upper

168 100

99 47.9 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051962.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051962.D (-1813) (-)

7.67

400000

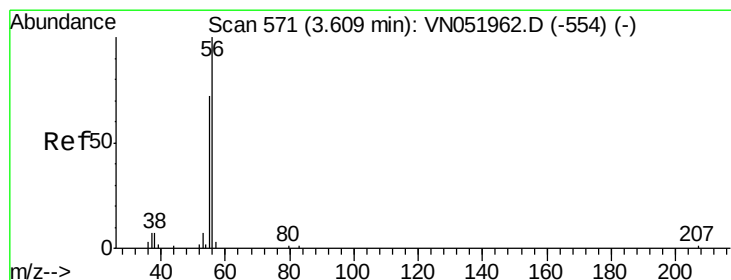
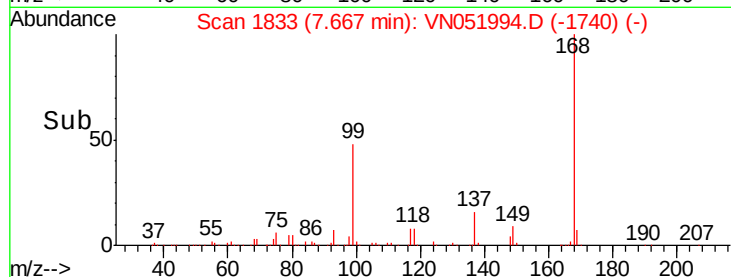
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 37.371 ug/l

RT: 3.34 min Scan# 488

Delta R.T. -0.27 min

Lab File: VN051994.D

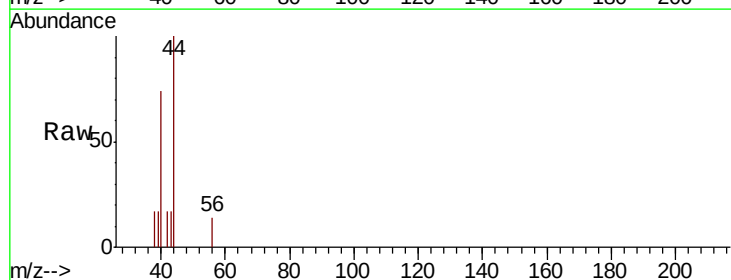
Acq: 24 Oct 2018 18:00

Tgt Ion: 56 Resp: 33

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN051962.D (-554) (-)

Ion 55.00 (54.70 to 55.70): VN051962.D (-554) (-)

3.34

200

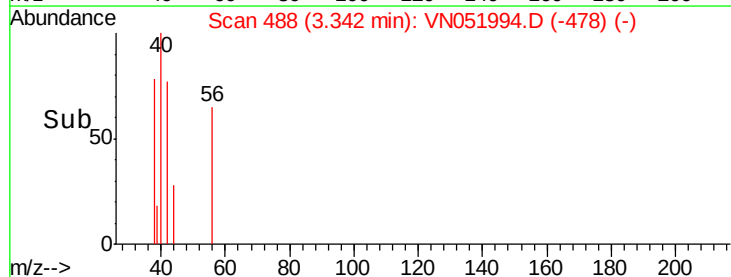
150

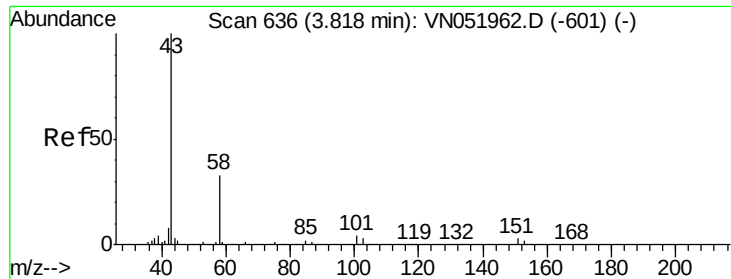
100

50

0

Time-->





#16

Acetone

Concen: 4.534 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

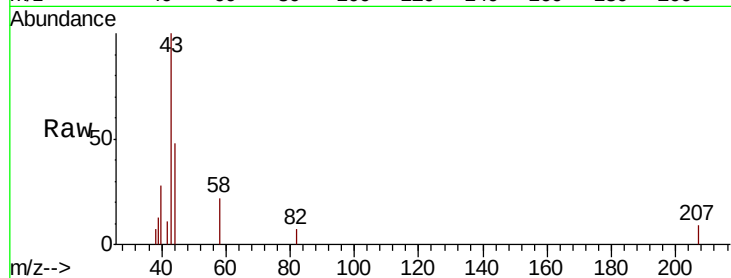
PB114120ZHE#10

Tot Ion: 43 Resp: 7114

Ion Ratio Lower Upper

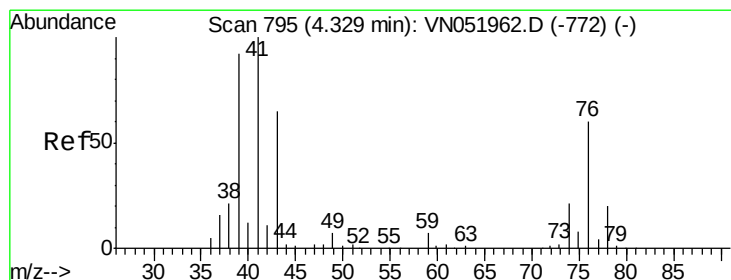
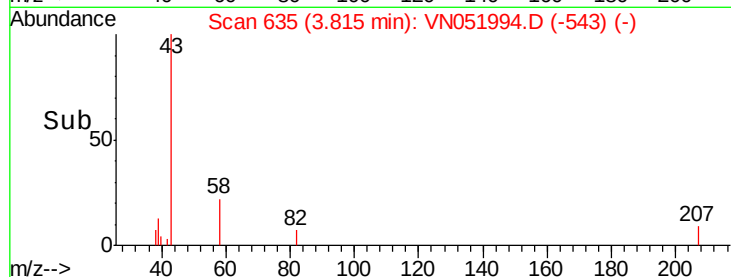
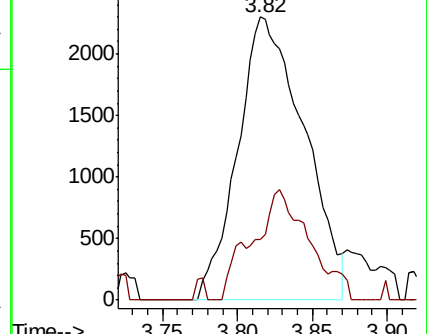
43 100

58 21.5 26.7 40.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN051994.D

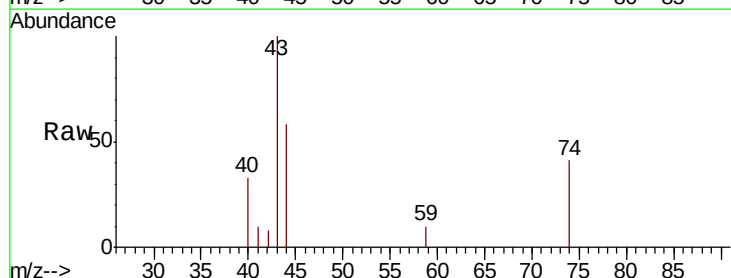
Acq: 24 Oct 2018 18:00

Tgt Ion: 43 Resp: 5974

Ion Ratio Lower Upper

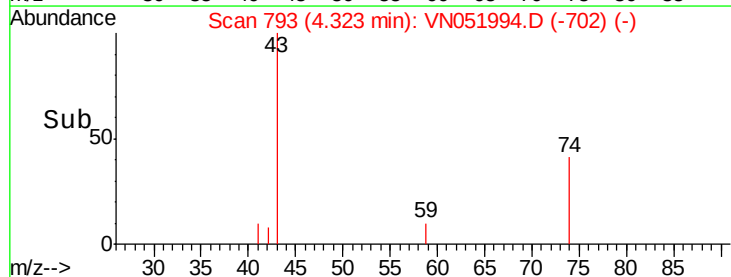
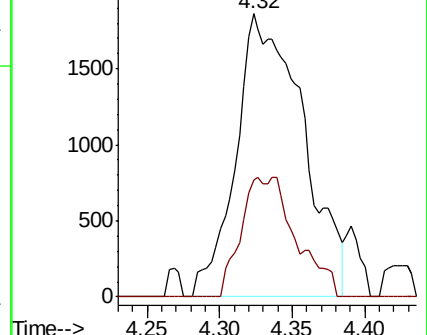
43 100

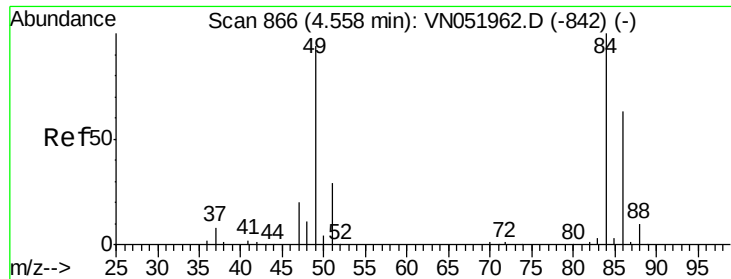
74 17.2 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

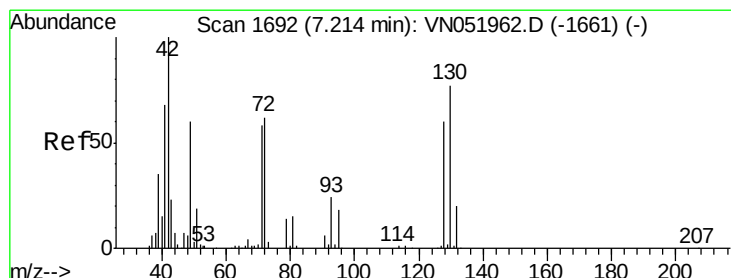
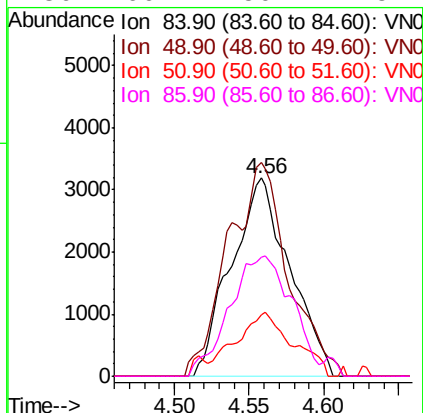
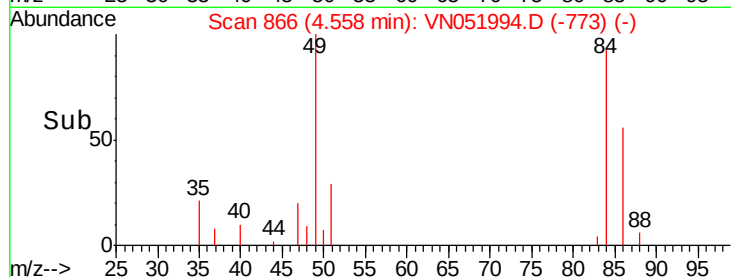
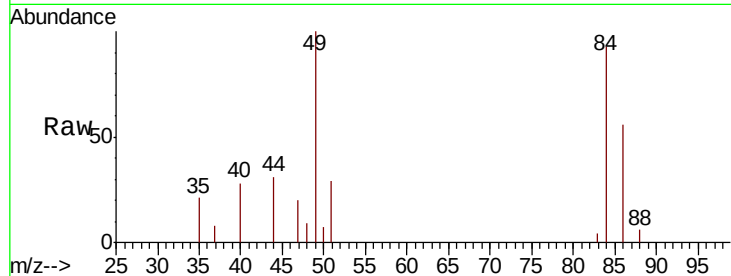




#20
Methylene Chloride
Concen: 0.942 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051994.D
Acq: 24 Oct 2018 18:00

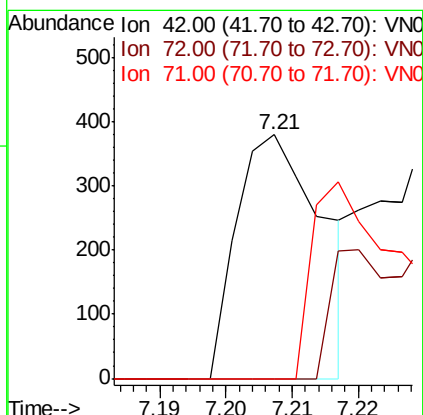
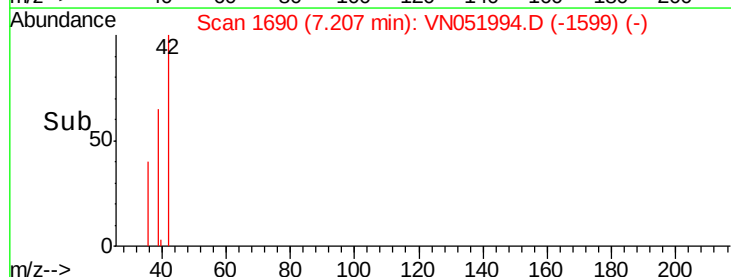
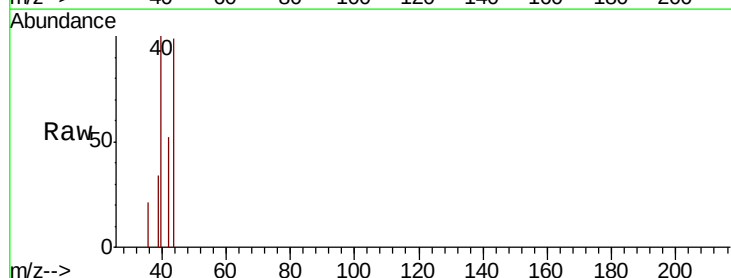
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#10

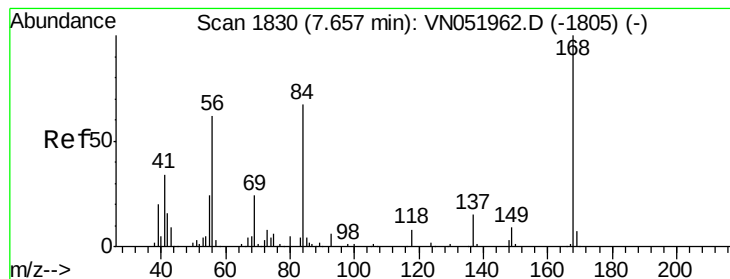
Tot Ion:	84	Resp:	8668
Ion	Ratio	Lower	Upper
84	100		
49	102.2	75.4	113.0
51	31.1	23.1	34.7
86	60.2	50.2	75.4



#29
Tetrahydrofuran
Concen: 0.224 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.01 min
Lab File: VN051994.D
Acq: 24 Oct 2018 18:00

Tgt Ion:	42	Resp:	340
Ion	Ratio	Lower	Upper
42	100		
72	31.5	47.5	71.3#
71	78.5	45.4	68.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#10

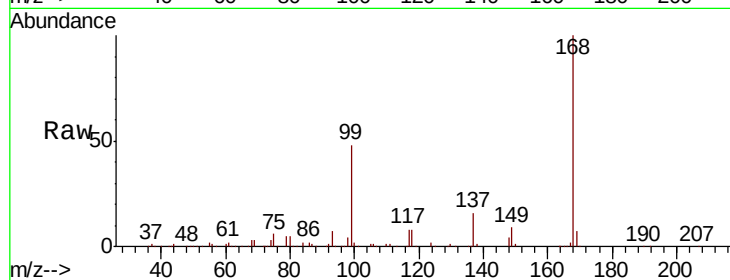
Tot Ion: 56 Resp: 16700

Ion Ratio Lower Upper

56 100

69 177.4 31.2 46.8#

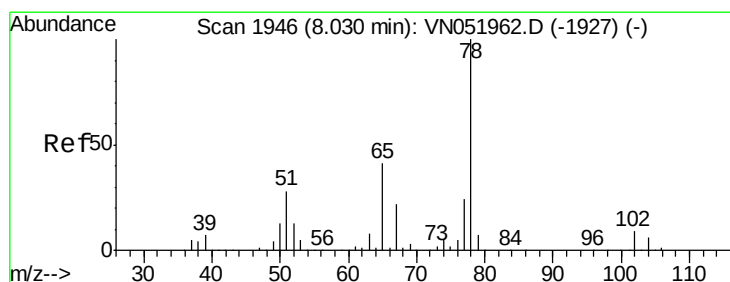
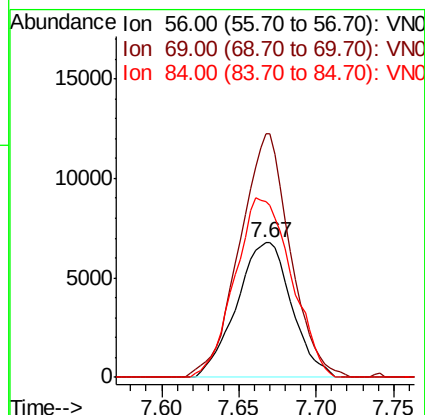
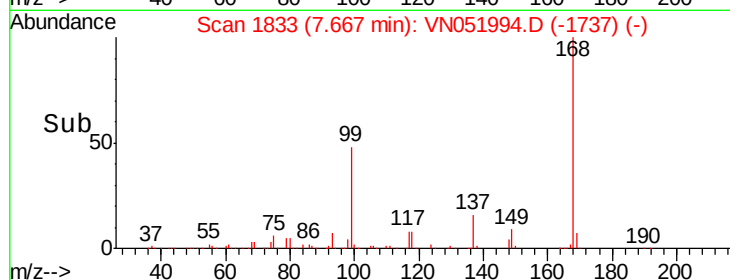
84 130.5 86.3 129.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051994.D

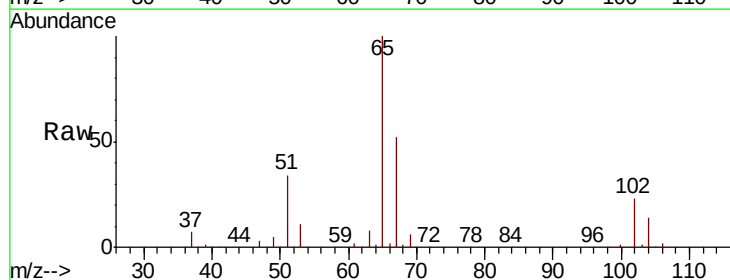
Acq: 24 Oct 2018 18:00

Tgt Ion: 65 Resp: 552765

Ion Ratio Lower Upper

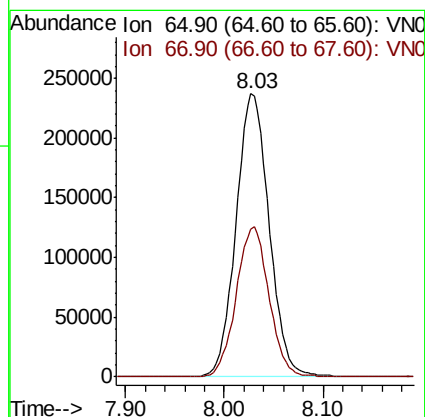
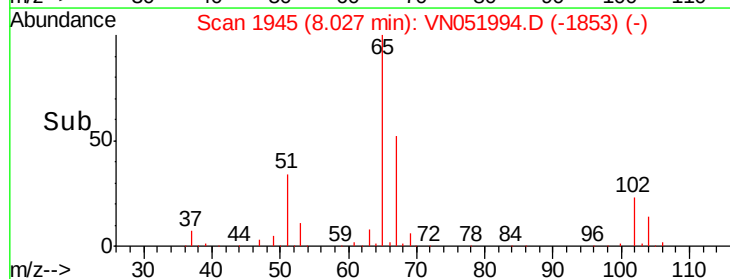
65 100

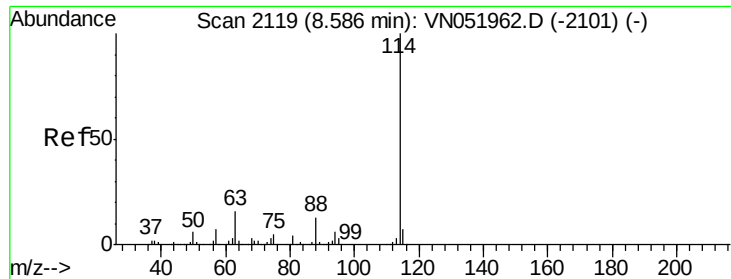
67 52.6 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



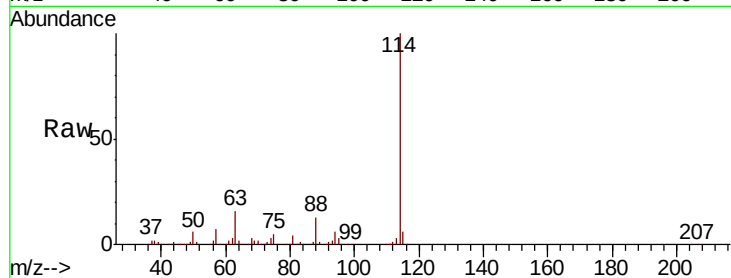


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051994.D
 Acq: 24 Oct 2018 18:00

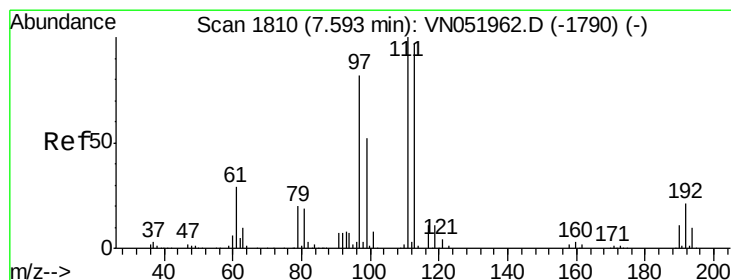
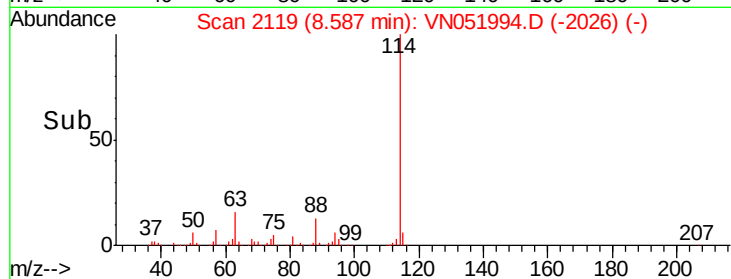
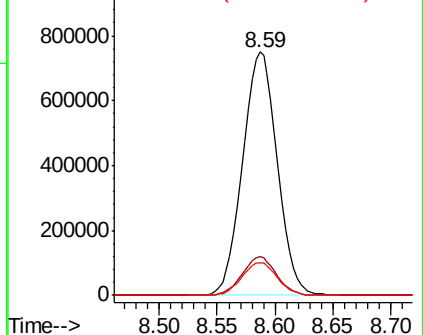
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114120ZHE#10

Tot Ion:114 Resp: 1559967

Ion	Ratio	Lower	Upper
114	100		
63	16.0	0.0	31.2
88	13.5	0.0	27.0



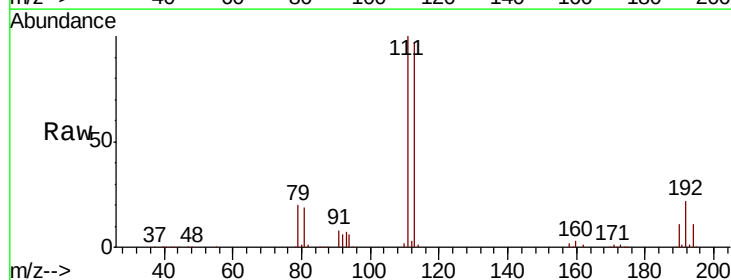
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



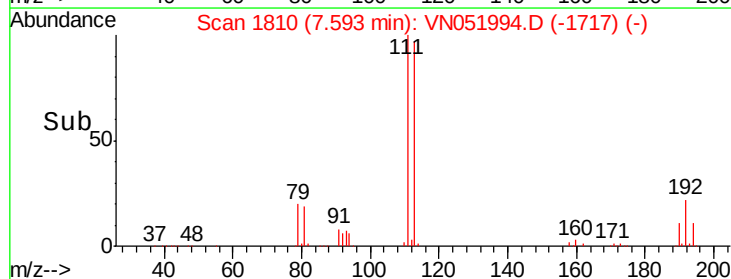
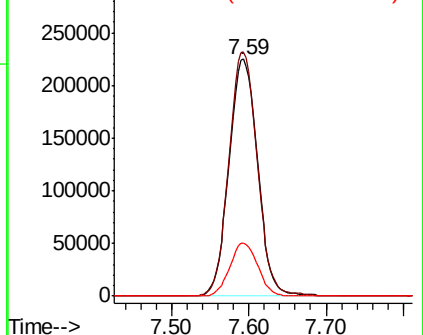
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051994.D
 Acq: 24 Oct 2018 18:00

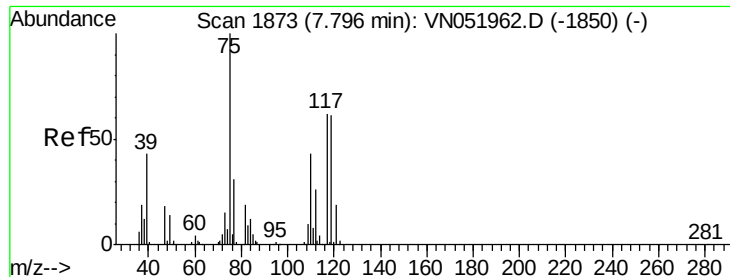
Tgt Ion:113 Resp: 577320

Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.7	121.1
192	21.8	17.2	25.8



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: 5.323 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.13 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#10

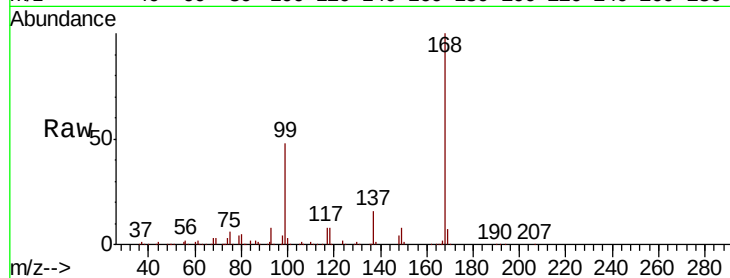
Tot Ion: 75 Resp: 63698

Ion Ratio Lower Upper

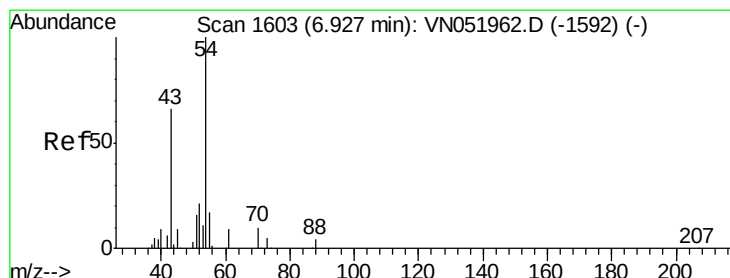
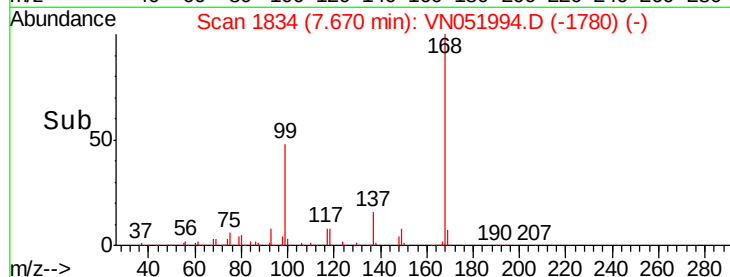
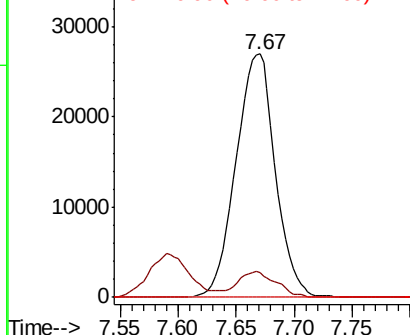
75 100

110 10.1 20.9 62.8#

77 0.0 24.9 37.3#



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



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.91 min Scan# 1598

Delta R.T. -0.02 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

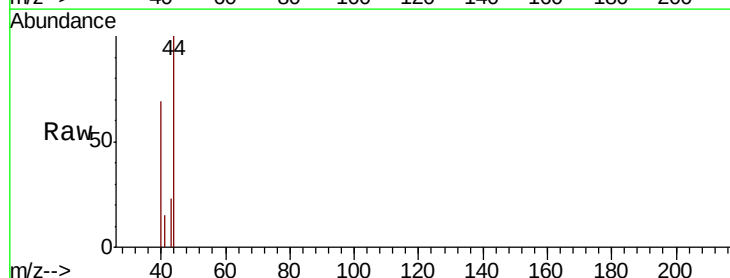
Tgt Ion: 43 Resp: 192

Ion Ratio Lower Upper

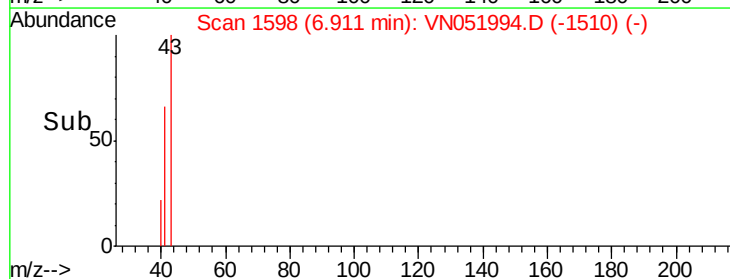
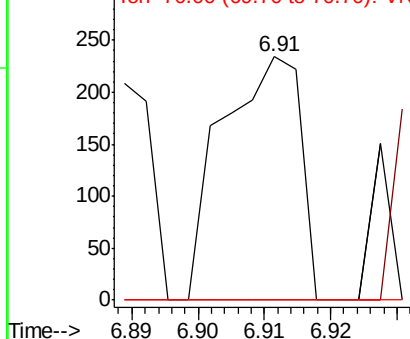
43 100

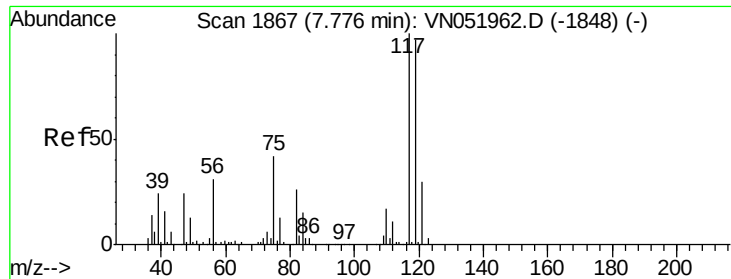
61 33.9 13.5 20.3#

70 0.0 9.8 14.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 70.00 (69.70 to 70.70): VNO

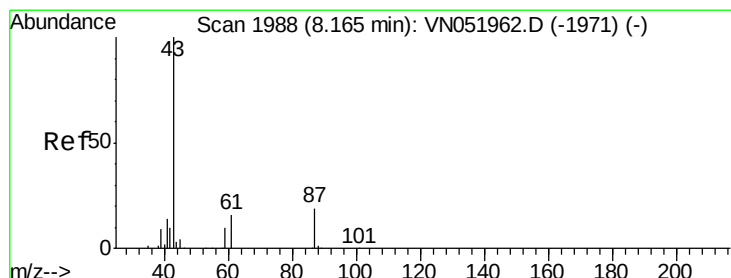
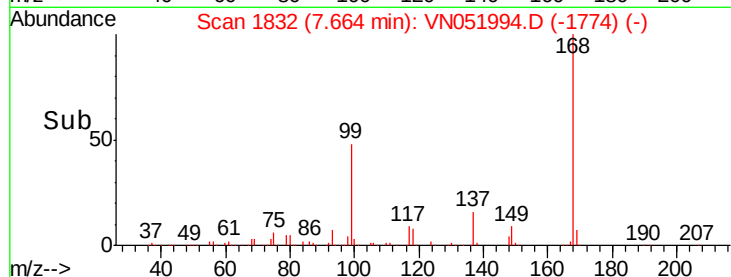
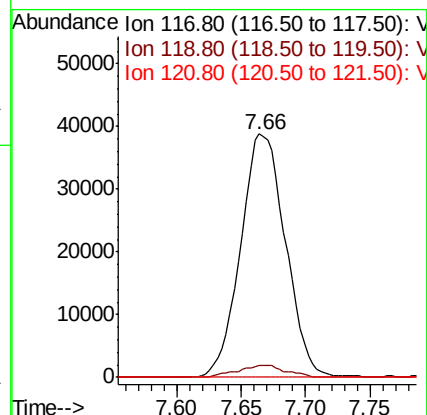
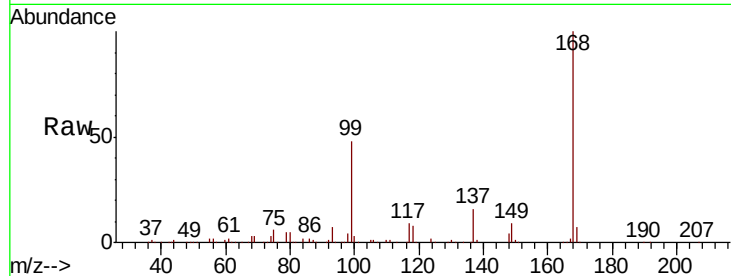




#38
Carbon Tetrachloride
Concen: 6.819 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN051994.D
Acq: 24 Oct 2018 18:00

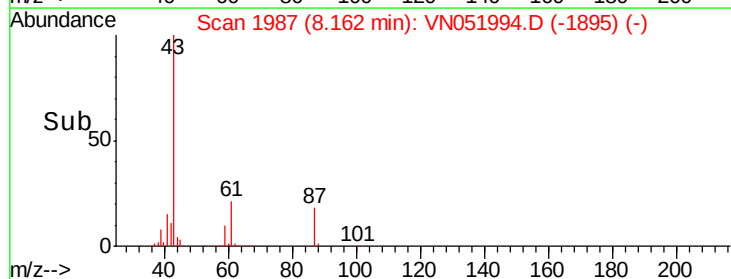
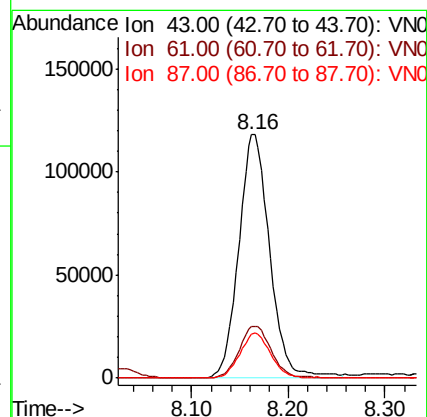
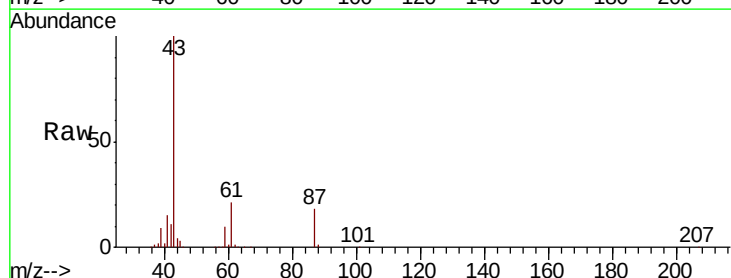
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#10

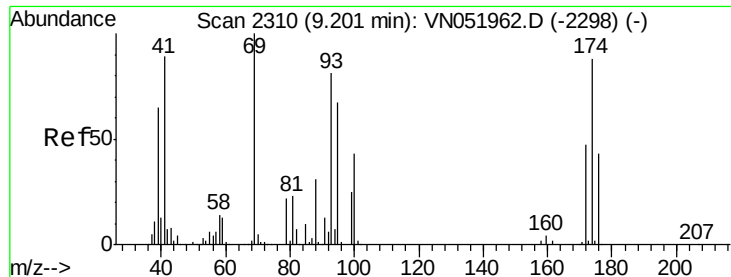
Tot Ion:117 Resp: 93680
Ion Ratio Lower Upper
117 100
119 4.7 77.4 116.0#
121 0.0 24.2 36.4#



#43
Isopropyl Acetate
Concen: 26.273 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN051994.D
Acq: 24 Oct 2018 18:00

Tgt Ion: 43 Resp: 263296
Ion Ratio Lower Upper
43 100
61 21.8 17.2 25.8
87 18.2 15.2 22.8

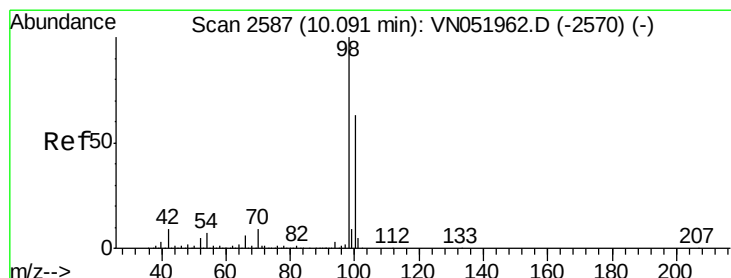
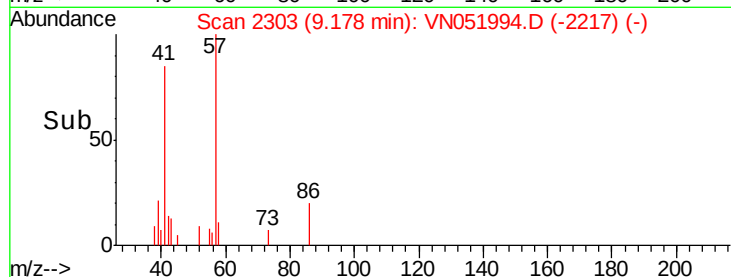
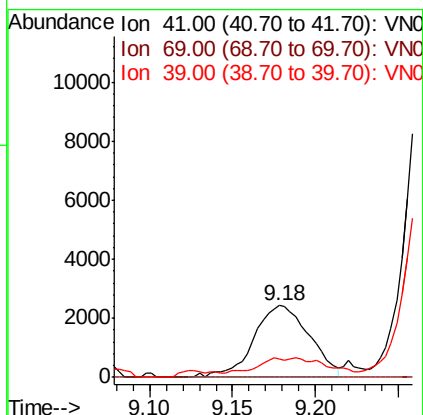
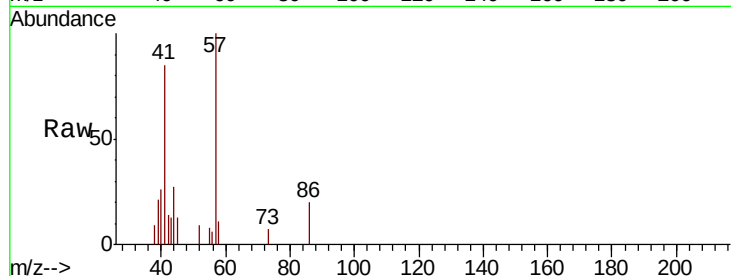




#48
Methvl methacrylate
Concen: 1.172 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051994.D
Acq: 24 Oct 2018 18:00

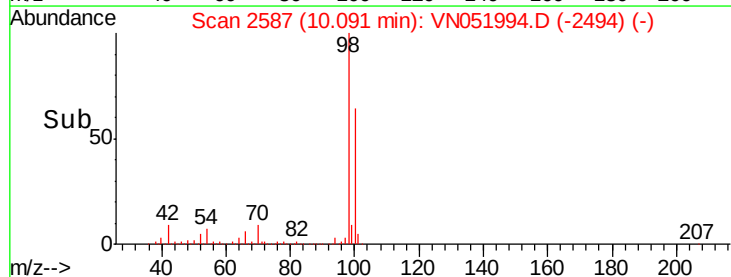
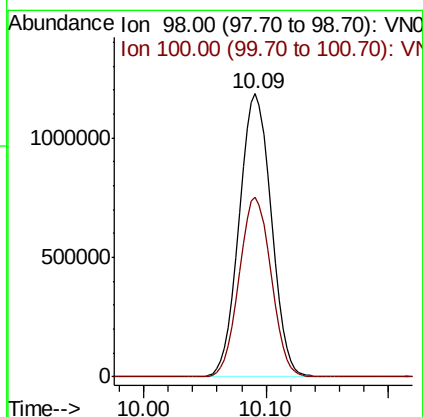
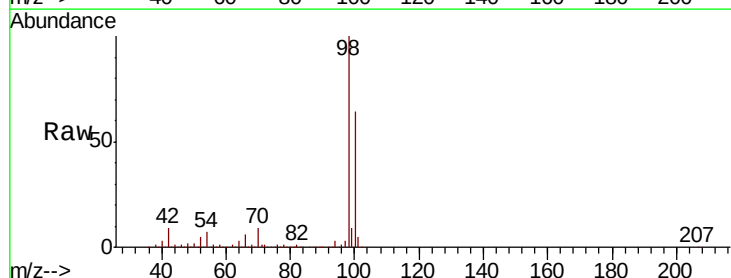
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#10

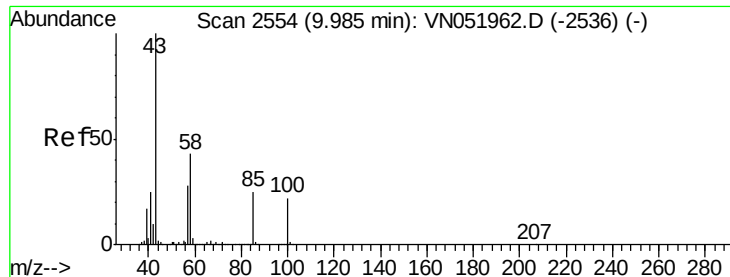
Tot Ion: 41 Resp: 5678
Ion Ratio Lower Upper
41 100
69 0.0 92.2 138.4#
39 9.3 60.2 90.4#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051994.D
Acq: 24 Oct 2018 18:00

Tgt Ion: 98 Resp: 2154531
Ion Ratio Lower Upper
98 100
100 63.2 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.249 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

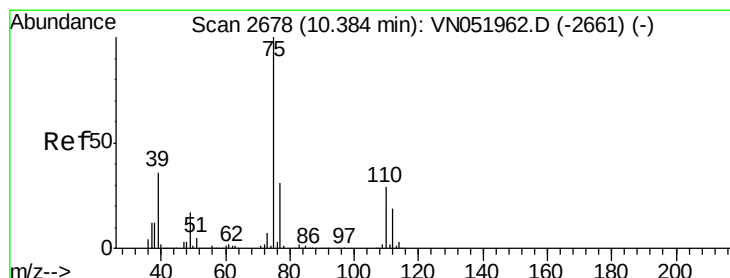
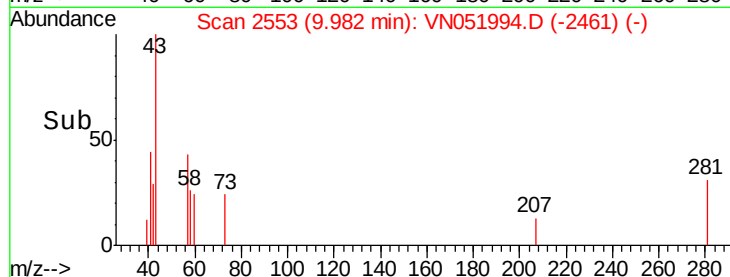
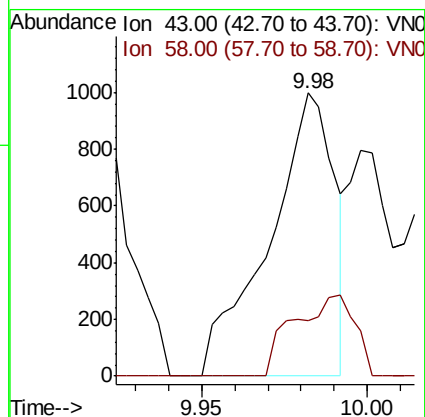
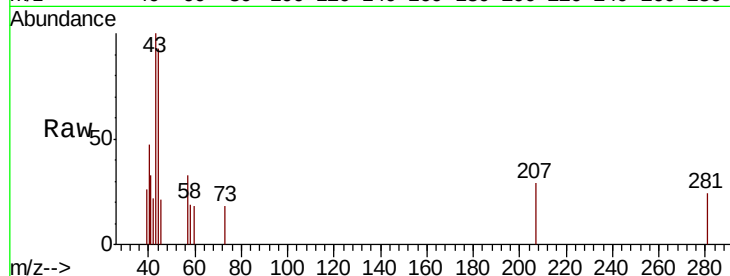
PB114120ZHE#10

Tot Ion: 43 Resp: 1375

Ion Ratio Lower Upper

43 100

58 0.0 34.8 52.2#



#53

t-1,3-Dichloropropene

Concen: 1.247 ug/l

RT: 10.30 min Scan# 2652

Delta R.T. -0.08 min

Lab File: VN051994.D

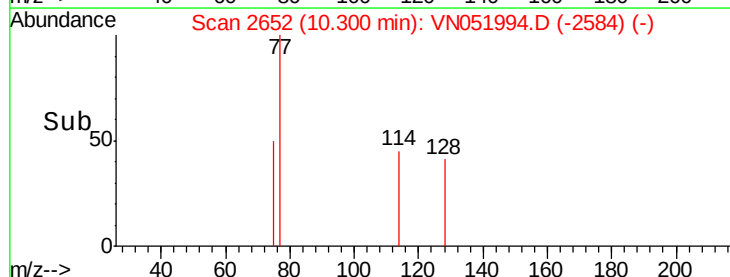
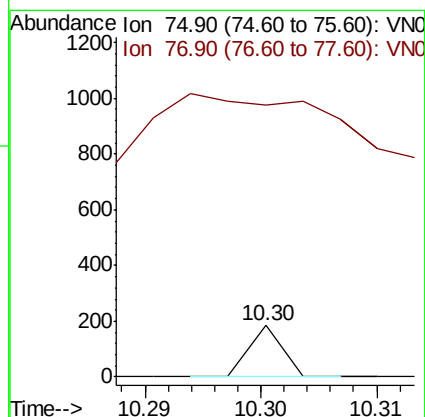
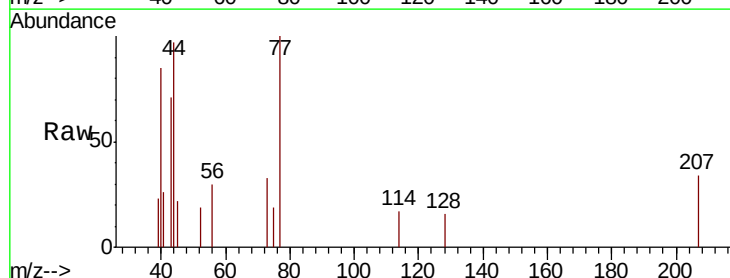
Acq: 24 Oct 2018 18:00

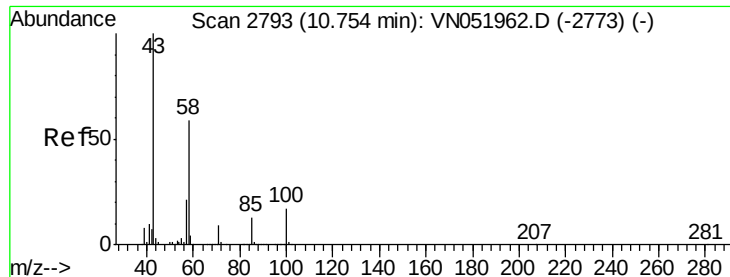
Tgt Ion: 75 Resp: 36

Ion Ratio Lower Upper

75 100

77 25.9 25.0 37.4





#59

2-Hexanone

Concen: 4.985 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

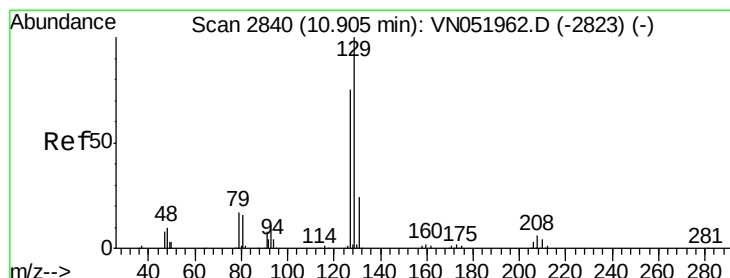
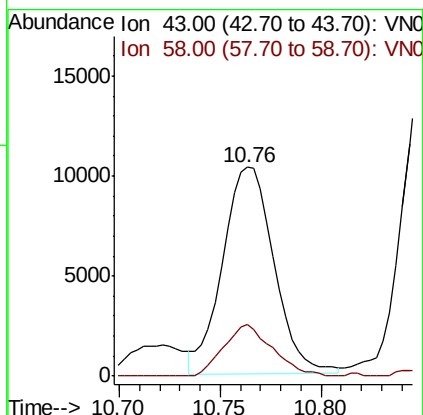
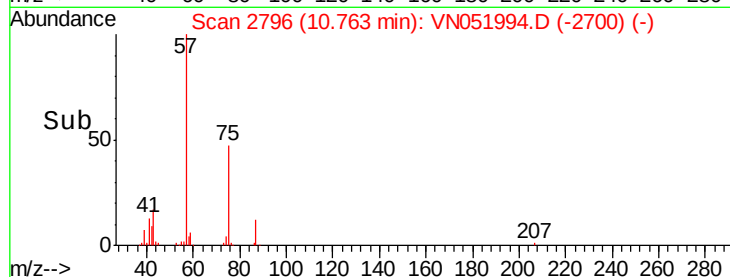
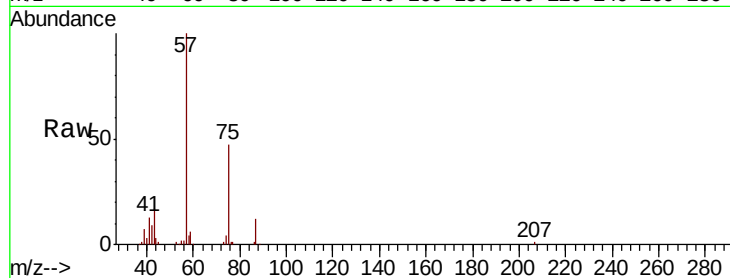
PB114120ZHE#10

Tot Ion: 43 Resp: 18462

Ion Ratio Lower Upper

43 100

58 23.6 29.9 89.8#



#60

Dibromochloromethane

Concen: 1.983 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN051994.D

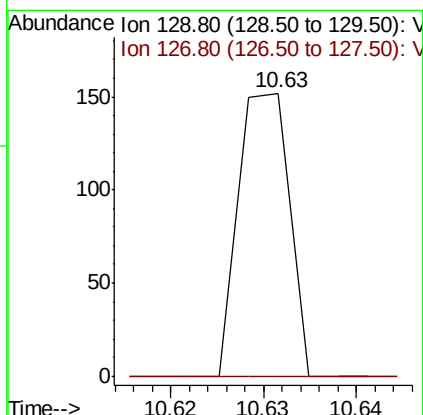
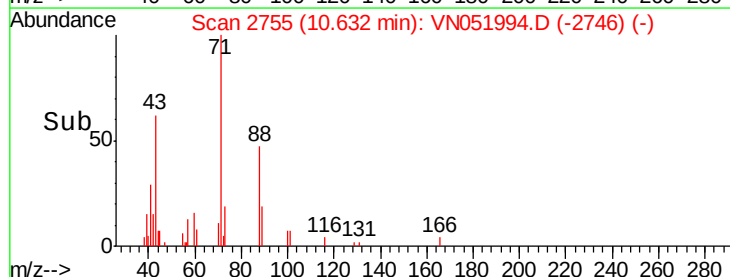
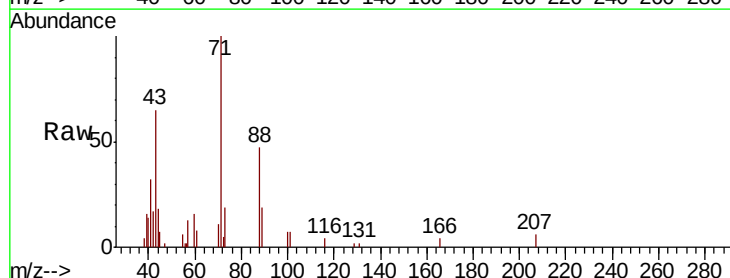
Acq: 24 Oct 2018 18:00

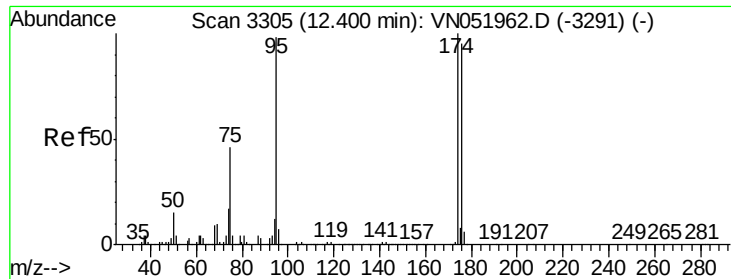
Tgt Ion: 129 Resp: 58

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.0#

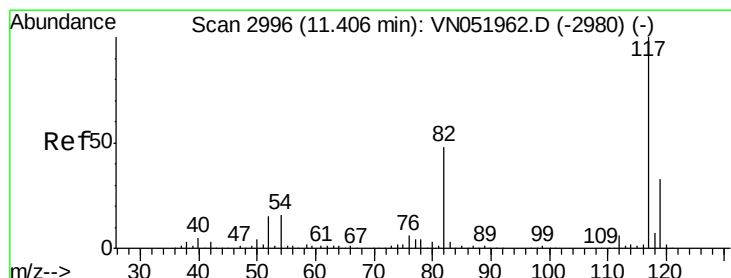
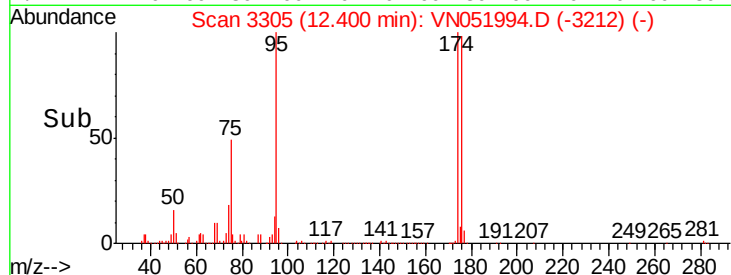
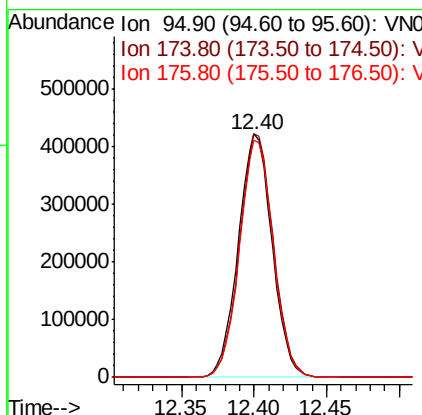
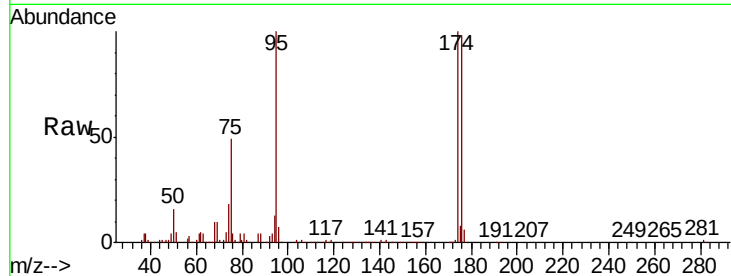




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051994.D
Acq: 24 Oct 2018 18:00

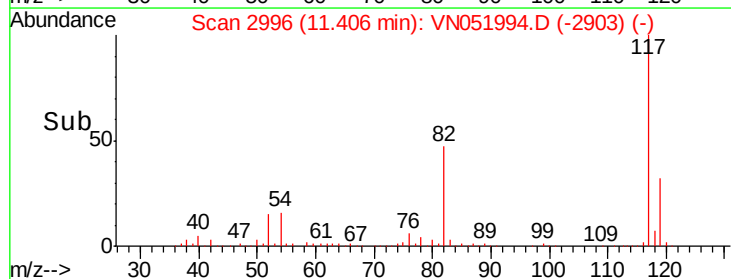
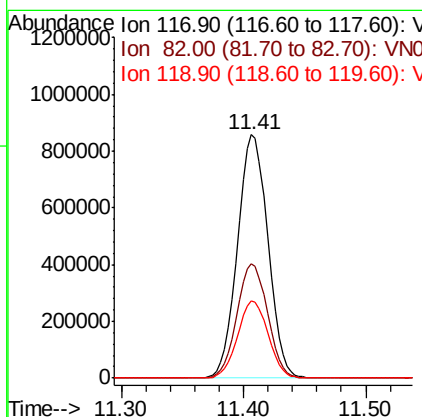
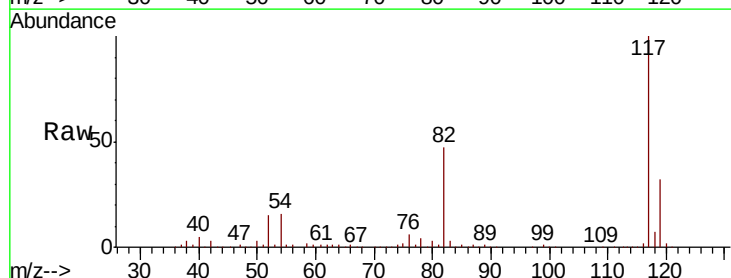
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#10

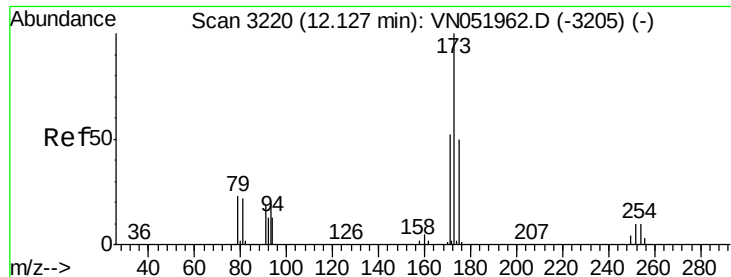
Tot Ion: 95 Resp: 682887
Ion Ratio Lower Upper
95 100
174 100.1 0.0 206.0
176 97.3 0.0 198.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051994.D
Acq: 24 Oct 2018 18:00

Tgt Ion: 117 Resp: 1474906
Ion Ratio Lower Upper
117 100
82 47.1 38.1 57.1
119 31.8 26.4 39.6





#71

Bromoform

Concen: 4.379 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#10

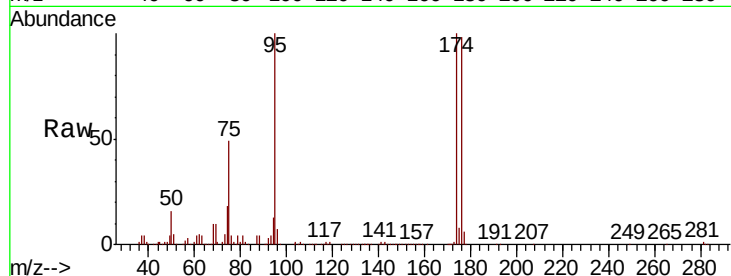
Tot Ion:173 Resp: 5866

Ion Ratio Lower Upper

173 100

175 755.2 24.6 74.0#

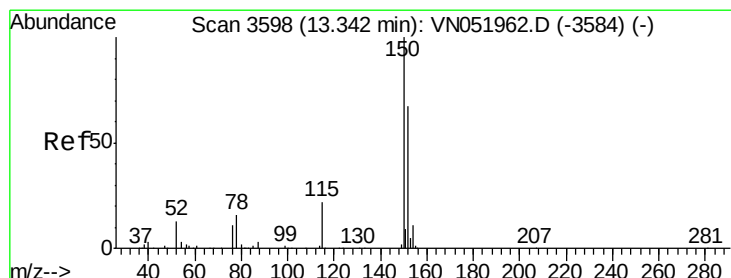
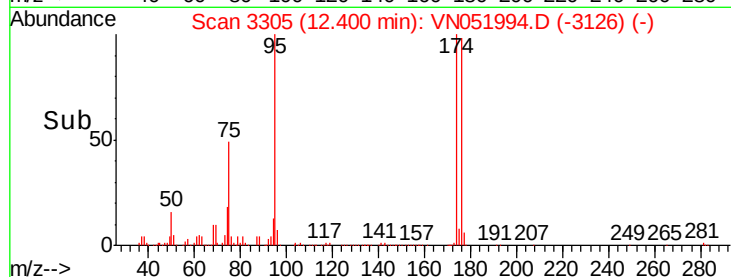
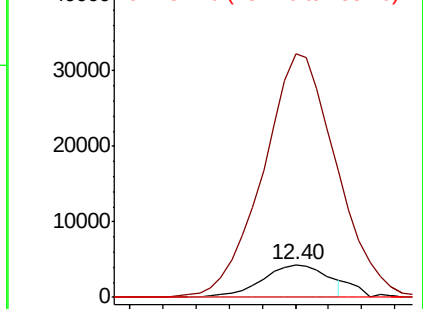
254 0.0 0.1 0.1#



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: VN051994.D

Acq: 24 Oct 2018 18:00

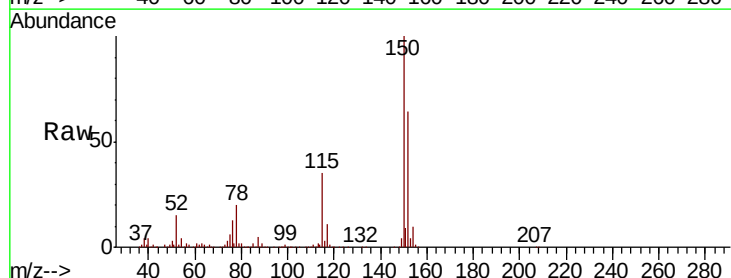
Tgt Ion:152 Resp: 679083

Ion Ratio Lower Upper

152 100

115 54.4 25.8 77.3

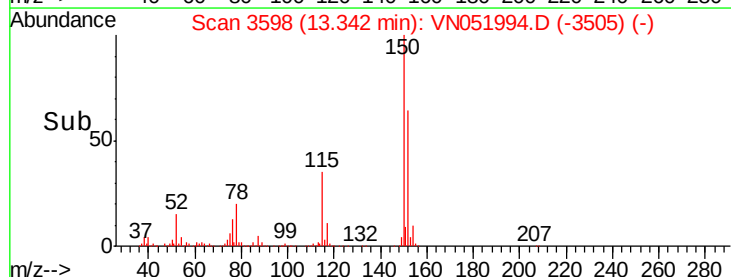
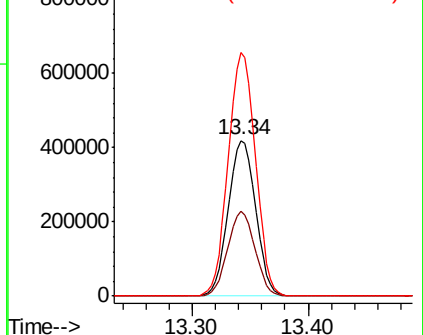
150 156.7 0.0 344.4

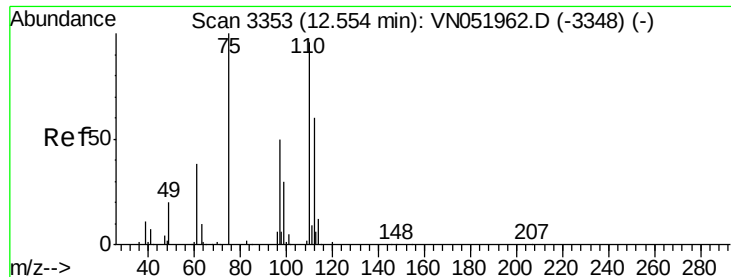


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 47.727 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

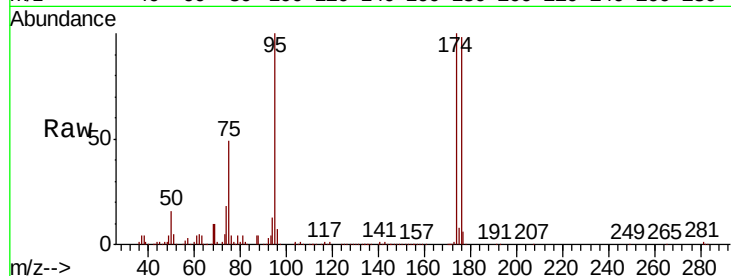
PB114120ZHE#10

Tot Ion: 75 Resp: 334781

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051994.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN051994.D (-3260) (-)

12.40

200000

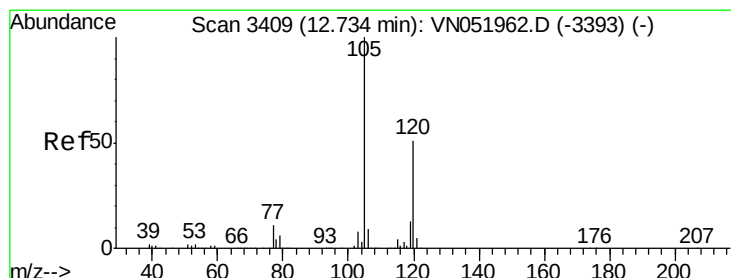
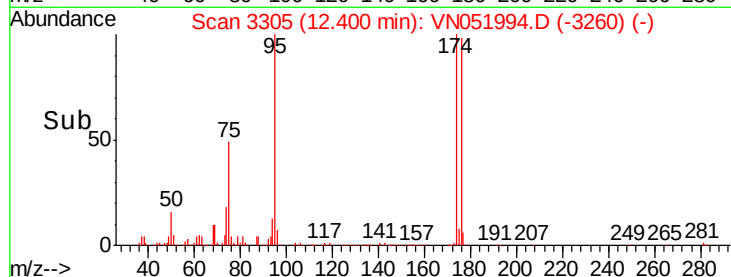
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.207 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051994.D

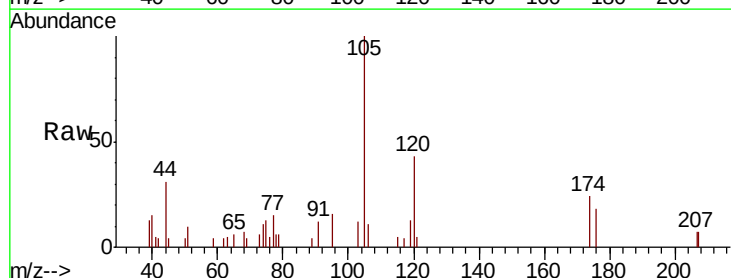
Acq: 24 Oct 2018 18:00

Tgt Ion: 105 Resp: 7140

Ion Ratio Lower Upper

105 100

120 44.6 25.7 77.1



Abundance Ion 105.00 (104.70 to 105.70): VN051994.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN051994.D (-3316) (-)

12.73

5000

4000

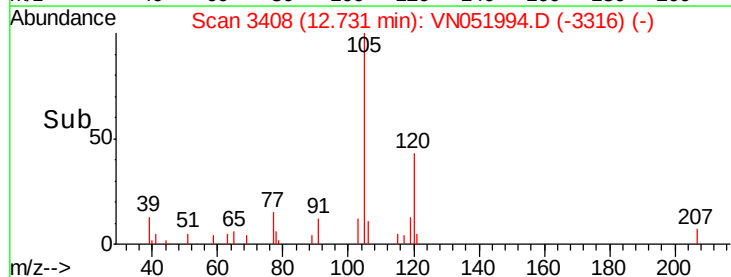
3000

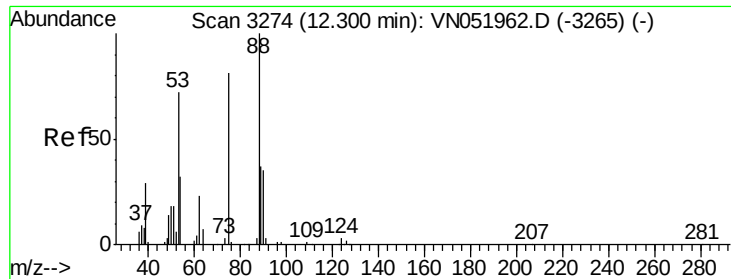
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 150.103 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051994.D

Acq: 24 Oct 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#10

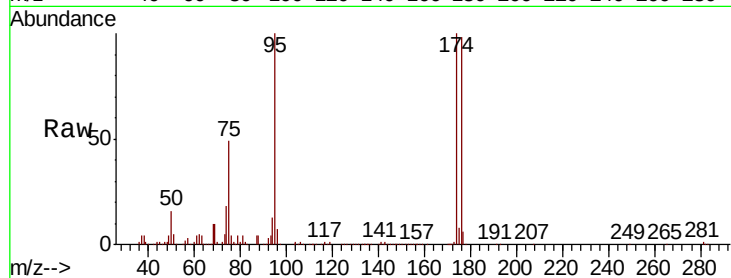
Tot Ion: 75 Resp: 334781

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#



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

