

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051987.D
 Acq On : 24 Oct 2018 14:54
 Operator : MD\SY
 Sample : PB114120ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114120ZHE#03

Quant Time: Oct 25 01:46:57 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	1083427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1586928	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1489817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	660155	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	565536	58.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.22%	
35) Dibromofluoromethane	7.59	113	586523	57.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.84%	
50) Toluene-d8	10.09	98	2189919	59.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.68%	
62) 4-Bromofluorobenzene	12.40	95	671248	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	

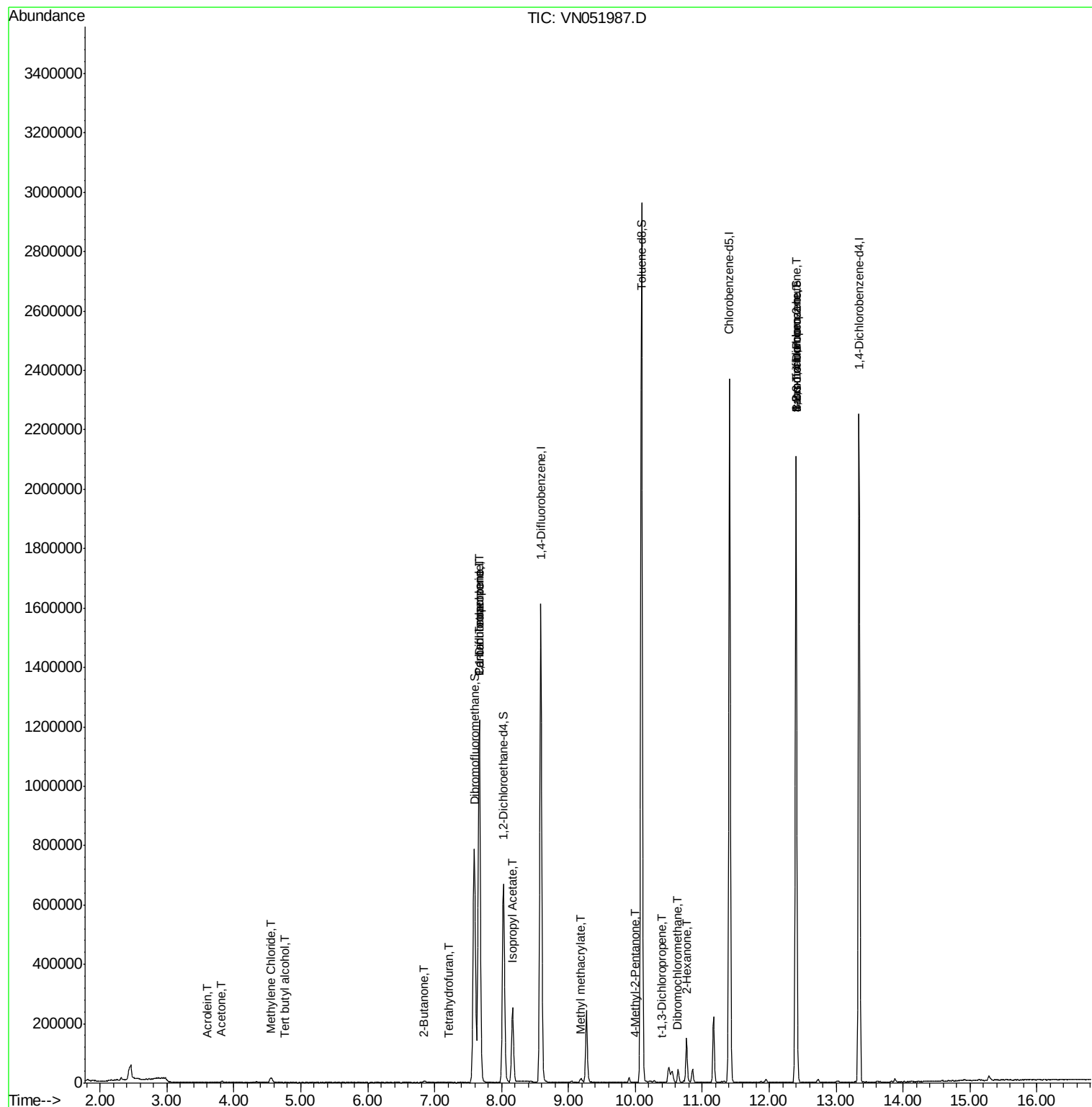
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	436	0.873	ug/l #	72
13) Acrolein	3.61	56	29	37.358	ug/l #	1
16) Acetone	3.82	43	7183	4.518	ug/l	96
18) Methyl Acetate	4.34	43	6503	Below Cal	#	66
20) Methylene Chloride	4.55	84	13109	1.406	ug/l	94
25) 2-Butanone	6.84	43	2549	1.125	ug/l	90
29) Tetrahydrofuran	7.21	42	501	0.326	ug/l #	69
31) Cyclohexane	7.66	56	15585	Below Cal	#	16
36) 1,1-Dichloropropene	7.67	75	66342	5.450	ug/l #	47
37) Ethyl Acetate	6.95	43	174	Below Cal	#	64
38) Carbon Tetrachloride	7.66	117	96346	6.894	ug/l #	15
43) Isopropyl Acetate	8.16	43	272149	26.695	ug/l	98
48) Methyl methacrylate	9.18	41	6586	1.337	ug/l #	8
51) 4-Methyl-2-Pentanone	9.98	43	2036	0.363	ug/l #	32
53) t-1,3-Dichloropropene	10.39	75	62	1.249	ug/l #	48
59) 2-Hexanone	10.76	43	20766	5.511	ug/l #	54
60) Dibromochloromethane	10.62	129	60	1.983	ug/l #	11
71) Bromoform	12.40	173	6086	4.397	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	330774	48.507	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	330774	152.529	ug/l #	12

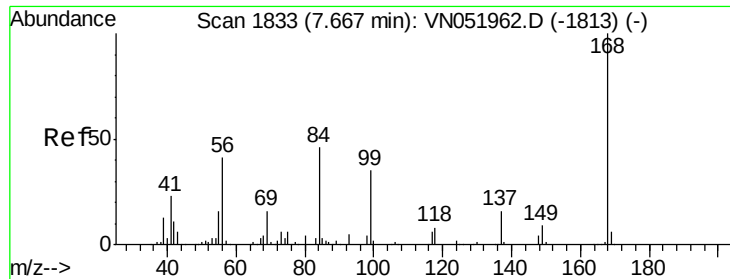
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

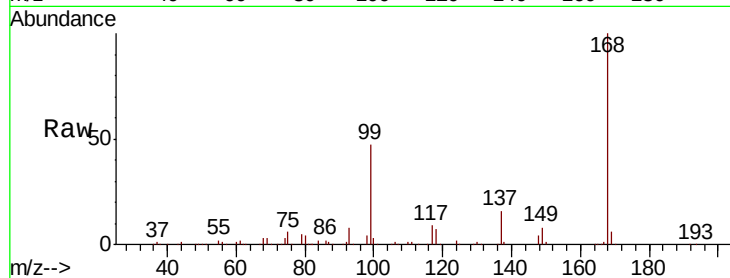
PB114120ZHE#03

Tot Ion:168 Resp: 1083427

Ion Ratio Lower Upper

168 100

99 46.8 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

500000

400000

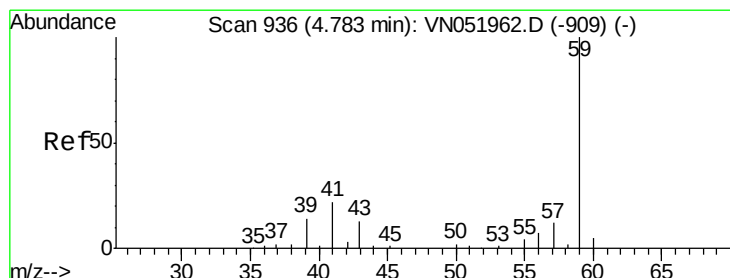
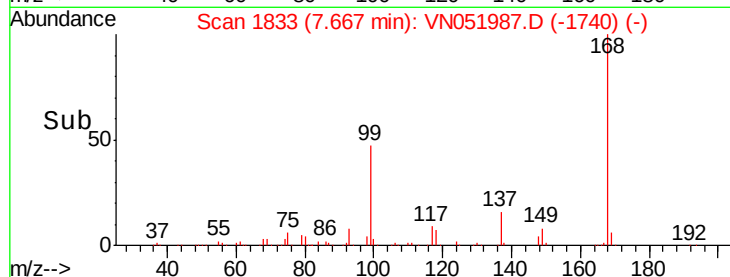
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.873 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.03 min

Lab File: VN051987.D

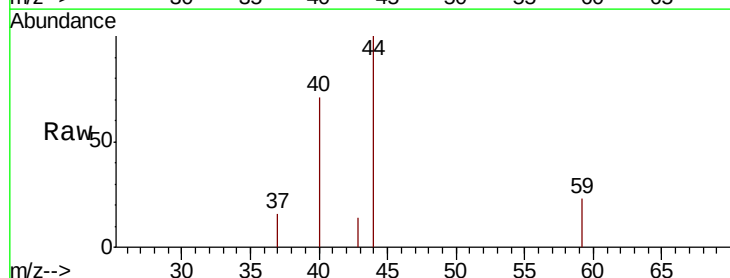
Acq: 24 Oct 2018 14:54

Tgt Ion: 59 Resp: 436

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN051962.D (-909) (-)

Ion 57.00 (56.70 to 57.70): VN051962.D (-909) (-)

4.75

300

250

200

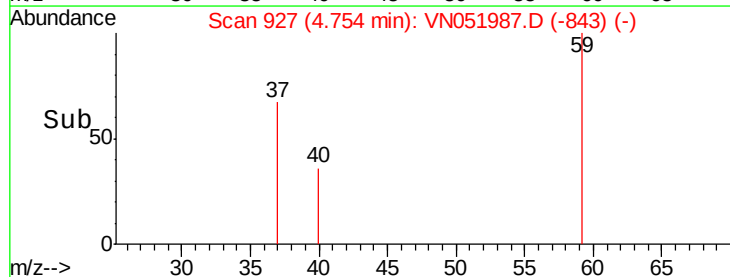
150

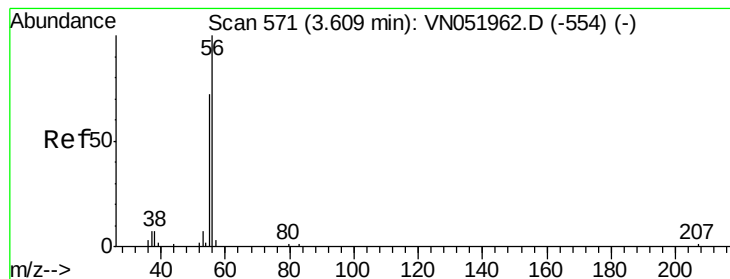
100

50

0

Time-->





#13

Acrolein

Concen: 37.358 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

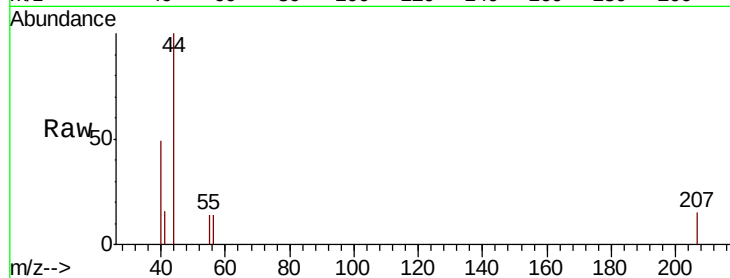
PB114120ZHE#03

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

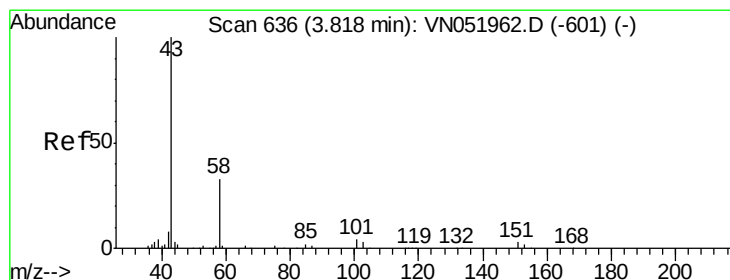
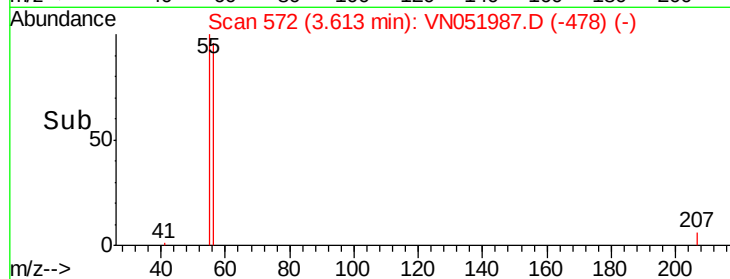
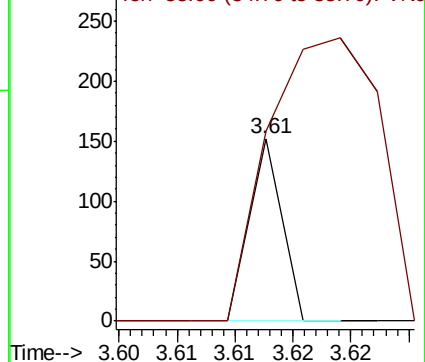
56 100

55 541.4 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) (-)



#16

Acetone

Concen: 4.518 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051987.D

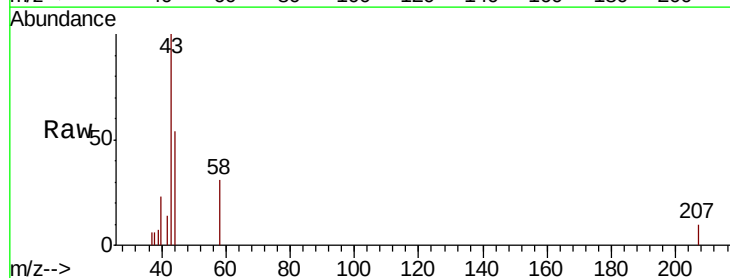
Acq: 24 Oct 2018 14:54

Tgt Ion: 43 Resp: 7183

Ion Ratio Lower Upper

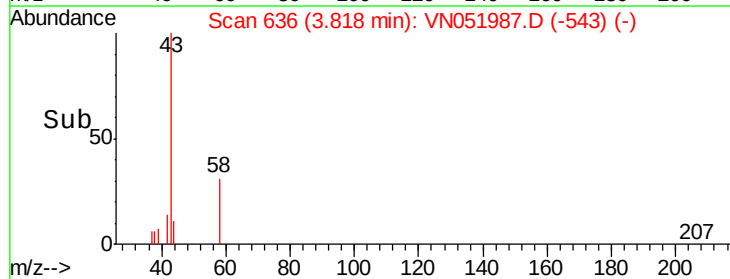
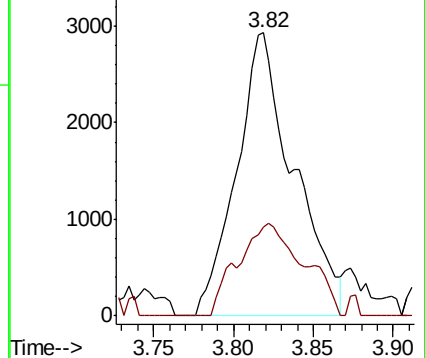
43 100

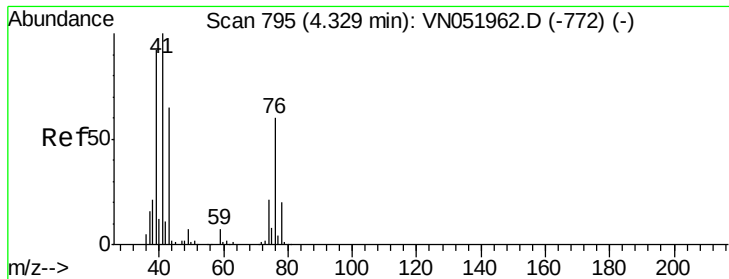
58 31.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN051962.D (-601) (-)





#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

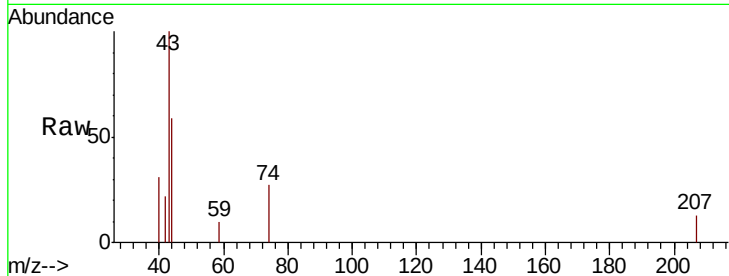
PB114120ZHE#03

Tot Ion: 43 Resp: 6503

Ion Ratio Lower Upper

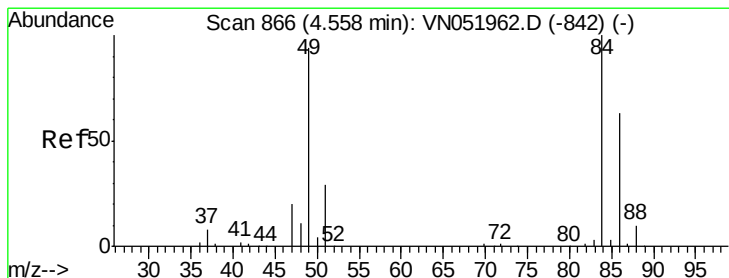
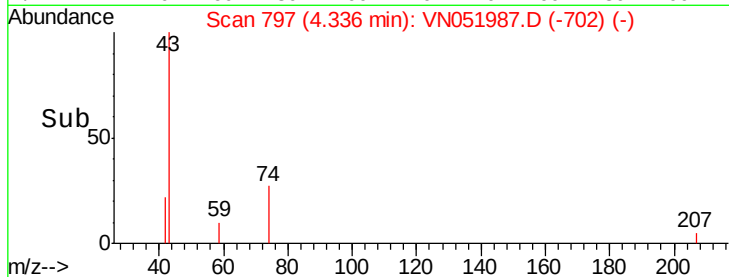
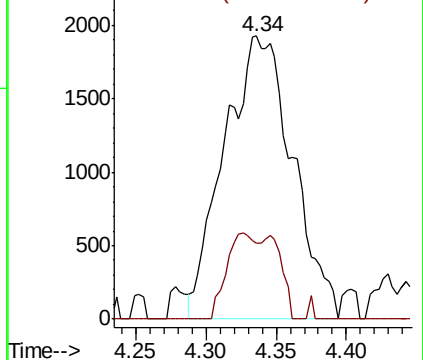
43 100

74 13.0 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: 1.406 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.01 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Tgt Ion: 84 Resp: 13109

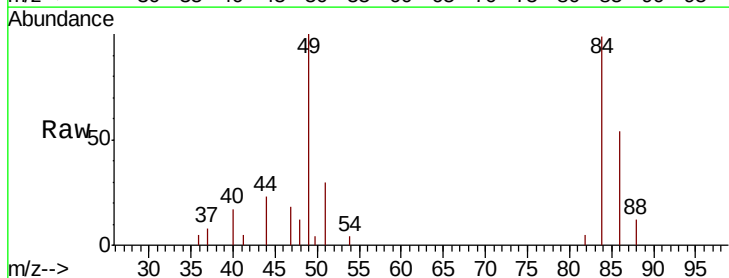
Ion Ratio Lower Upper

84 100

49 97.6 75.4 113.0

51 30.7 23.1 34.7

86 55.0 50.2 75.4

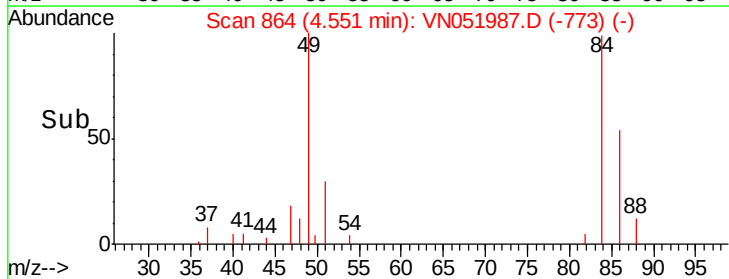
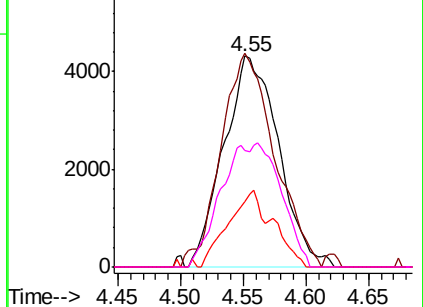


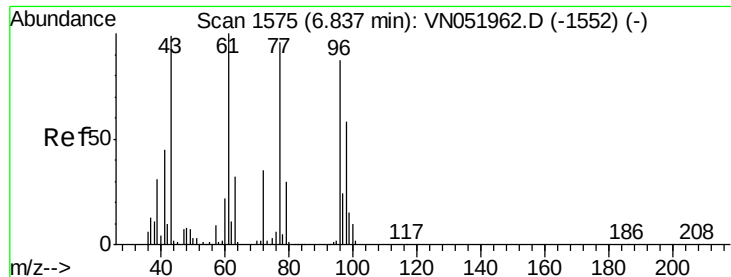
Abundance Ion 83.90 (83.60 to 84.60): VN0

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

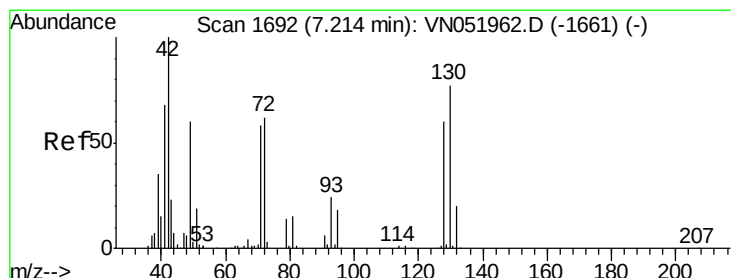
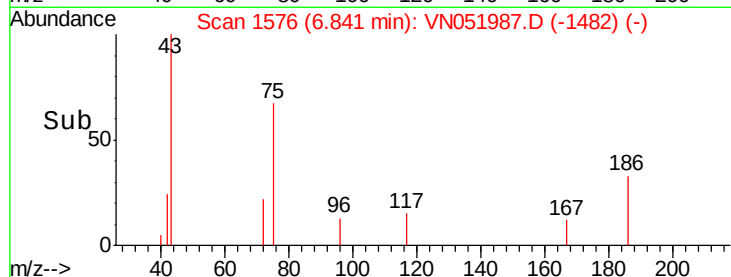
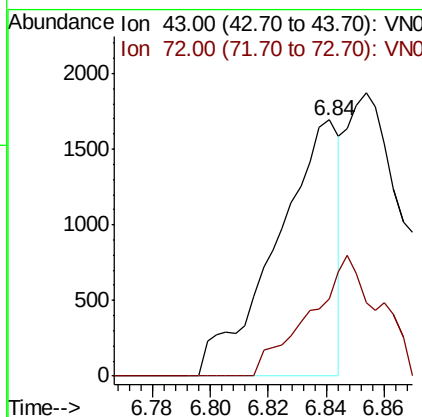
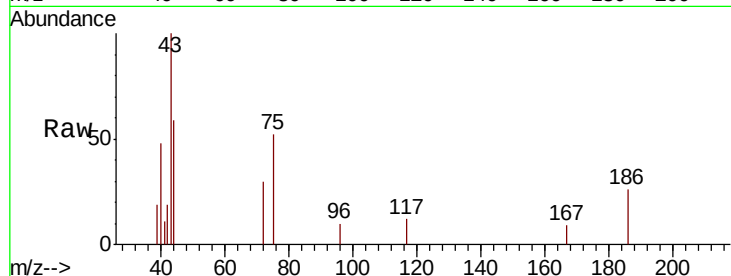




#25
2-Butanone
Concen: 1.125 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051987.D
Acq: 24 Oct 2018 14:54

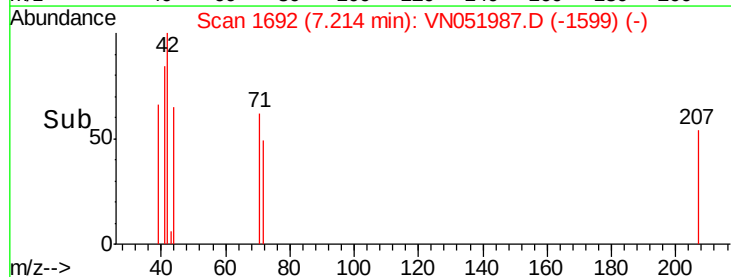
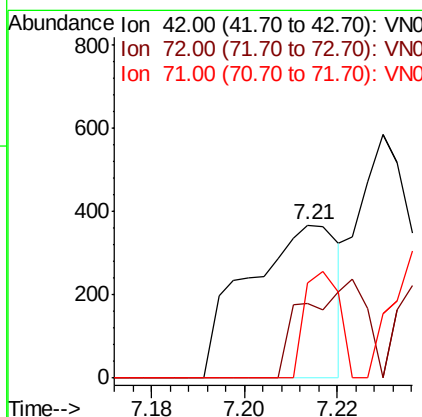
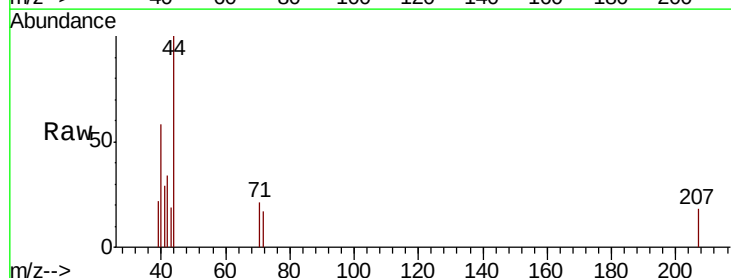
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#03

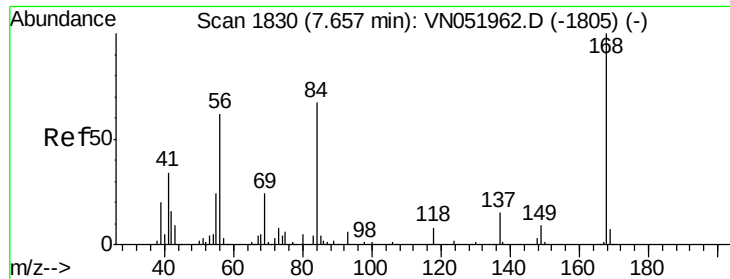
Tot Ion: 43 Resp: 2549
Ion Ratio Lower Upper
43 100
72 29.9 28.5 42.7



#29
Tetrahydrofuran
Concen: 0.326 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051987.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 42 Resp: 501
Ion Ratio Lower Upper
42 100
72 43.5 47.5 71.3#
71 26.7 45.4 68.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#03

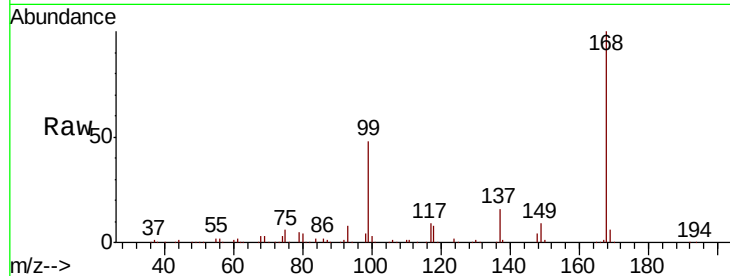
Tot Ion: 56 Resp: 15585

Ion Ratio Lower Upper

56 100

69 173.6 31.2 46.8#

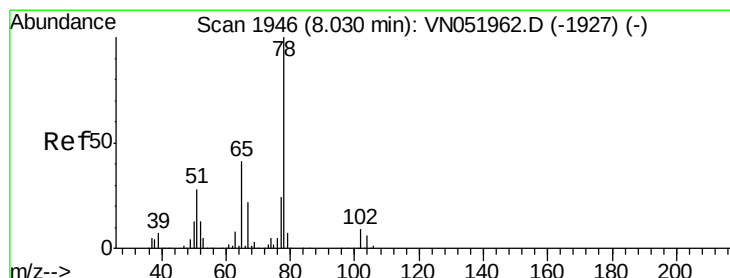
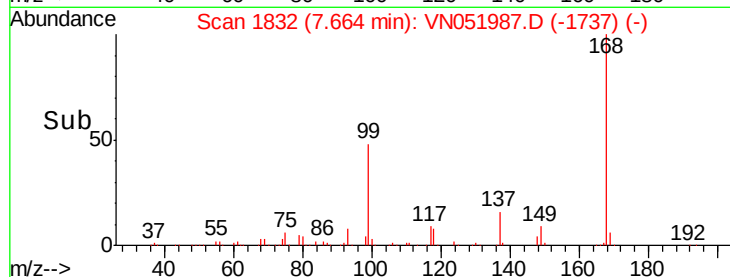
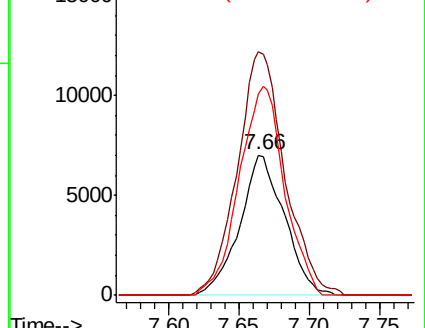
84 143.8 86.3 129.5#



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: VN051987.D

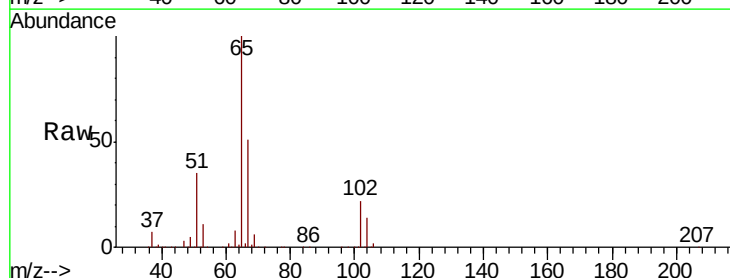
Acq: 24 Oct 2018 14:54

Tgt Ion: 65 Resp: 565536

Ion Ratio Lower Upper

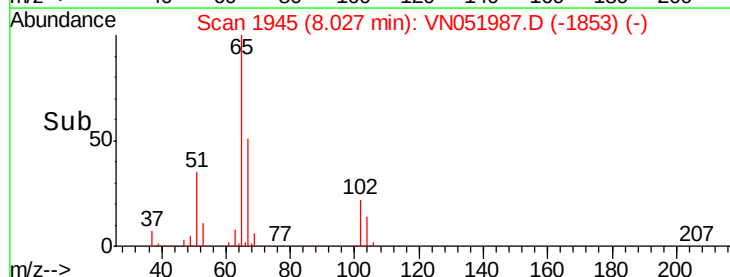
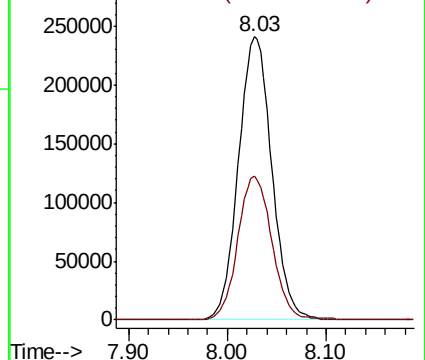
65 100

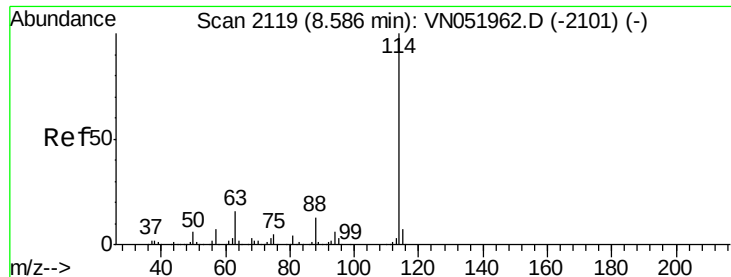
67 51.9 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

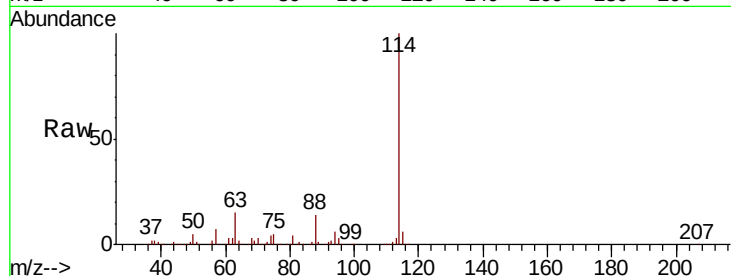




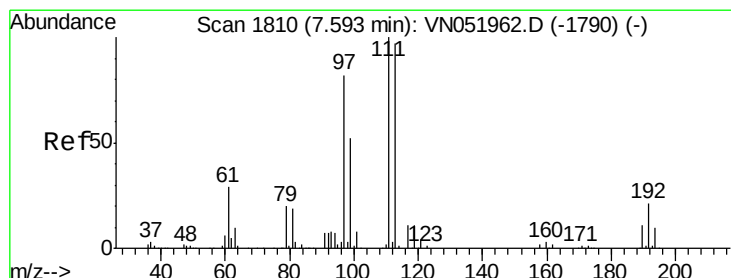
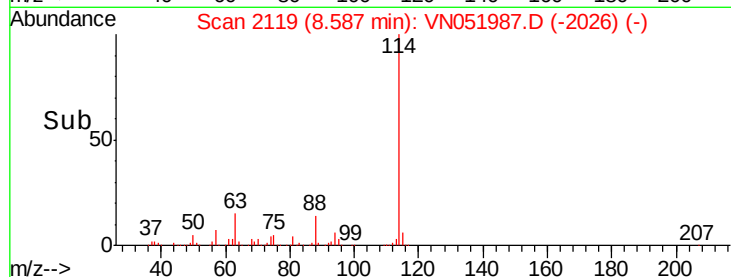
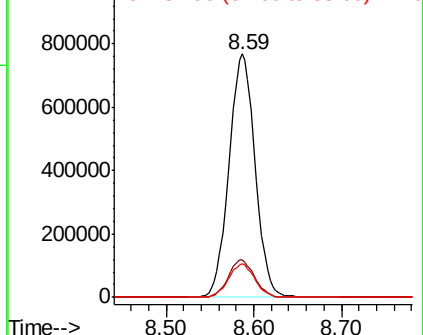
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051987.D
 Acq: 24 Oct 2018 14:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114120ZHE#03

Tot Ion:114 Resp: 1586928
 Ion Ratio Lower Upper
 114 100
 63 15.3 0.0 31.2
 88 13.8 0.0 27.0

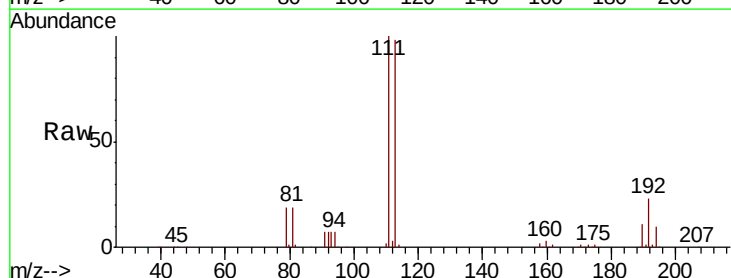


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

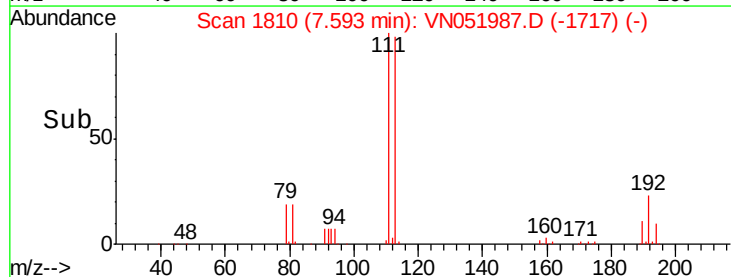
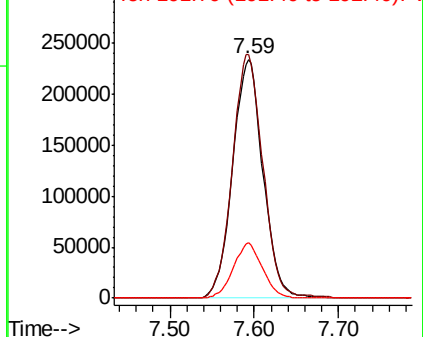


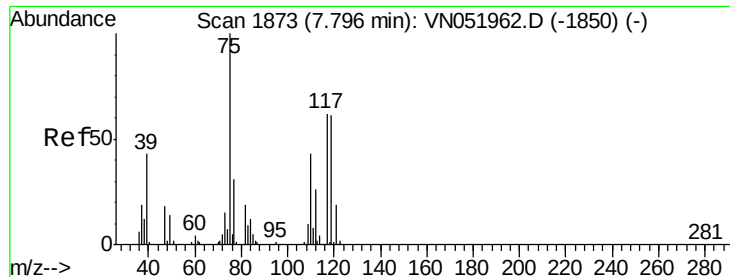
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051987.D
 Acq: 24 Oct 2018 14:54

Tgt Ion:113 Resp: 586523
 Ion Ratio Lower Upper
 113 100
 111 102.7 80.7 121.1
 192 22.3 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: 5.450 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#03

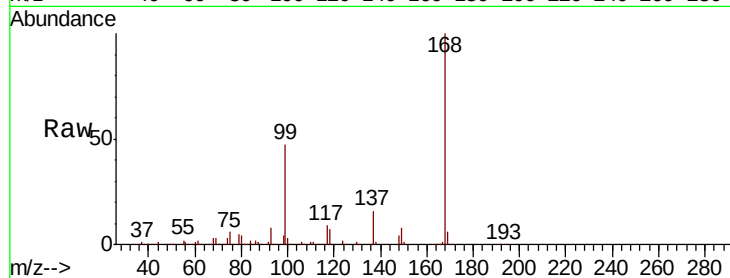
Tot Ion: 75 Resp: 66342

Ion Ratio Lower Upper

75 100

110 9.7 20.9 62.8#

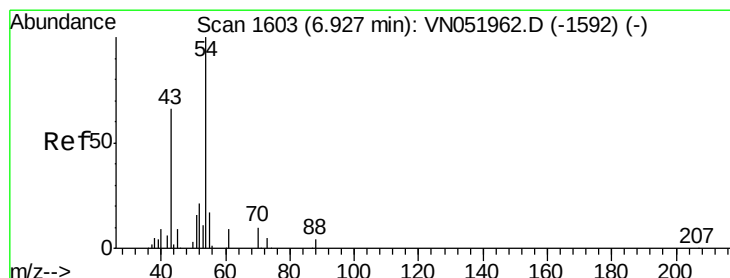
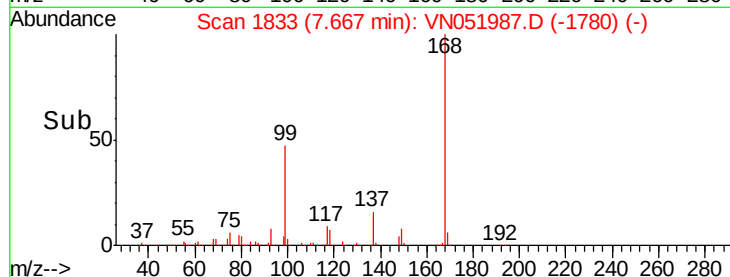
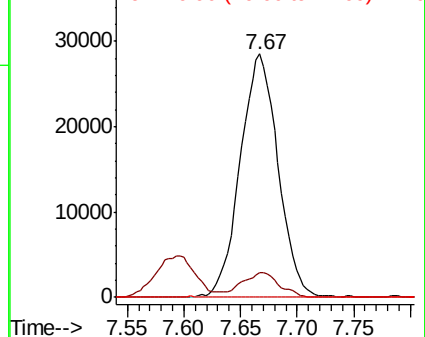
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN051962.D (-1850) (-)

Ion 109.90 (109.60 to 110.60): VN051962.D (-1850) (-)

Ion 76.90 (76.60 to 77.60): VN051962.D (-1850) (-)



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.95 min Scan# 1610

Delta R.T. 0.02 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

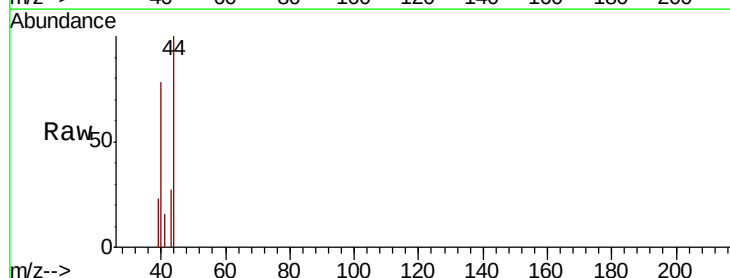
Tgt Ion: 43 Resp: 174

Ion Ratio Lower Upper

43 100

61 0.0 13.5 20.3#

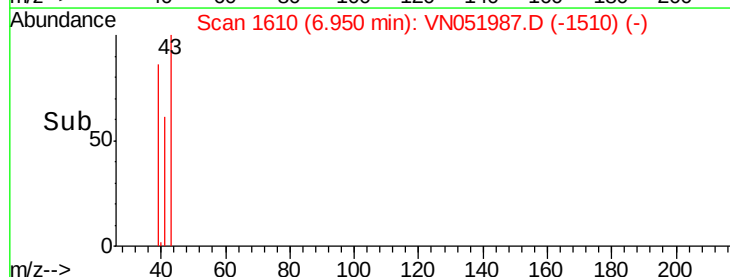
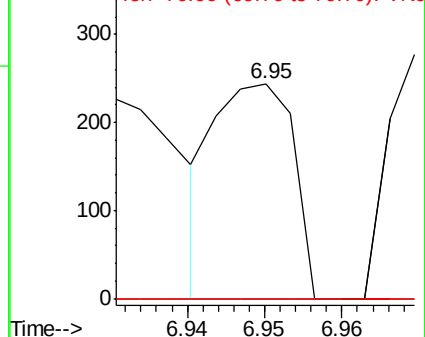
70 0.0 9.8 14.6#

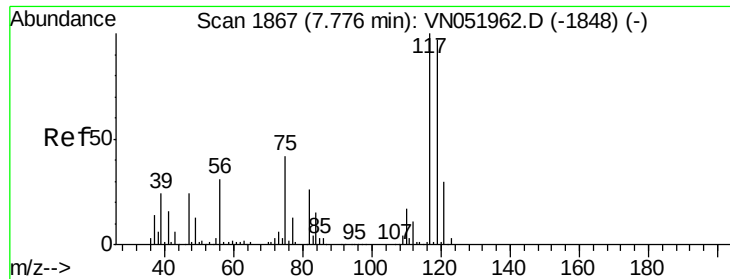


Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051962.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051962.D (-1592) (-)





#38

Carbon Tetrachloride

Concen: 6.894 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#03

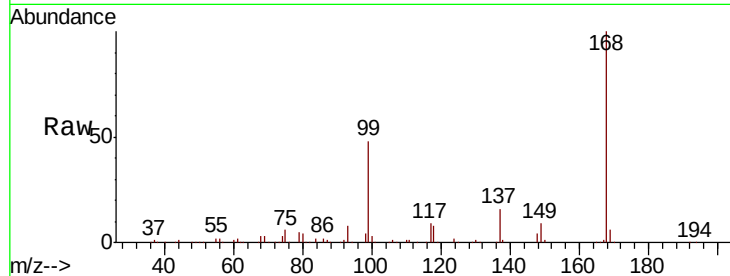
Tot Ion:117 Resp: 96346

Ion Ratio Lower Upper

117 100

119 4.9 77.4 116.0#

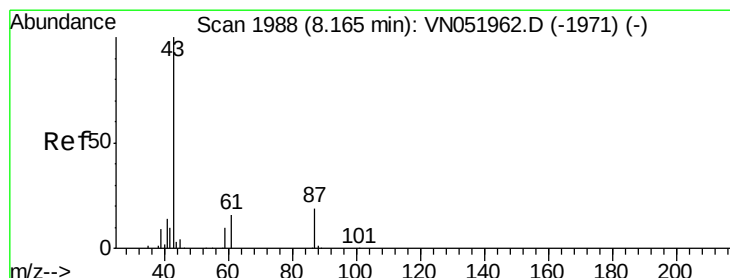
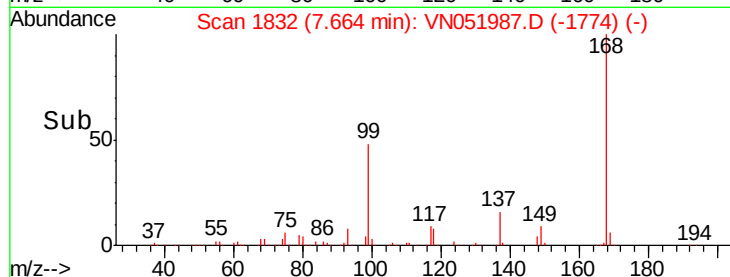
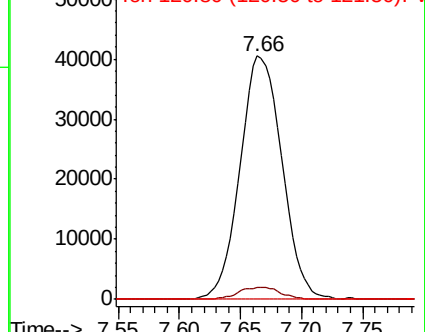
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 26.695 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

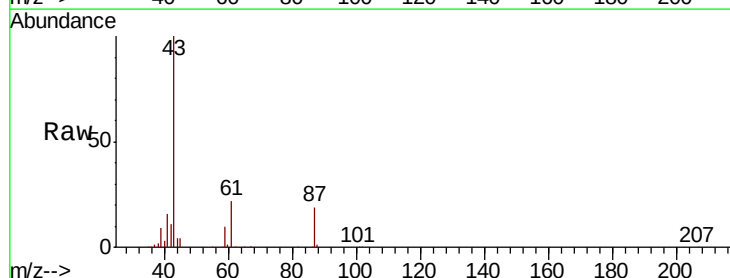
Tgt Ion: 43 Resp: 272149

Ion Ratio Lower Upper

43 100

61 22.4 17.2 25.8

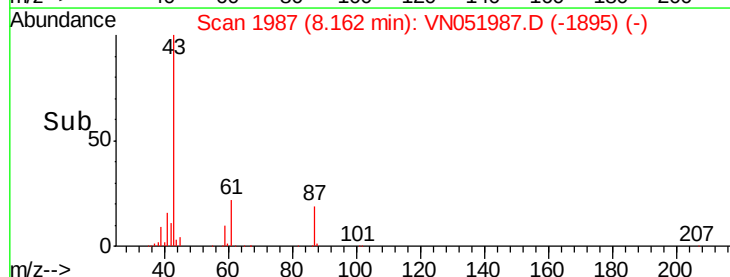
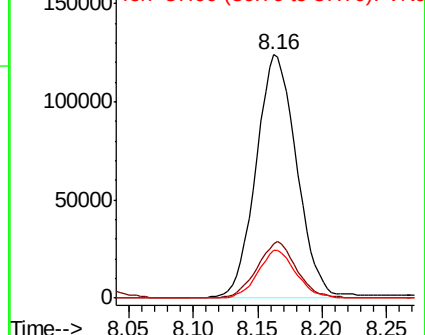
87 18.5 15.2 22.8

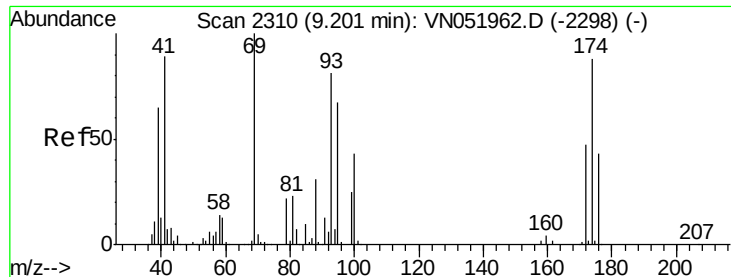


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#48

Methvl methacrylate

Concen: 1.337 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#03

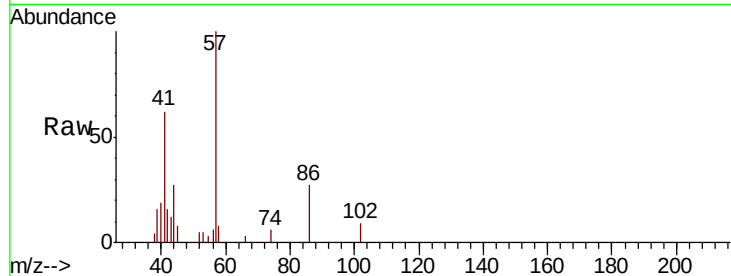
Tot Ion: 41 Resp: 6586

Ion Ratio Lower Upper

41 100

69 0.0 92.2 138.4#

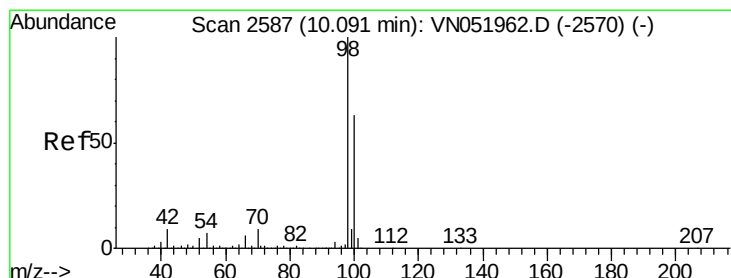
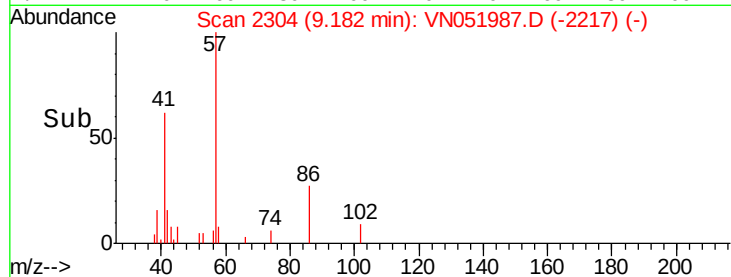
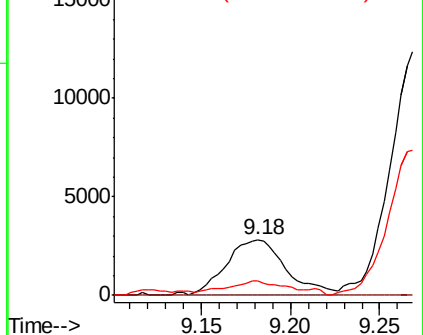
39 15.7 60.2 90.4#



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: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051987.D

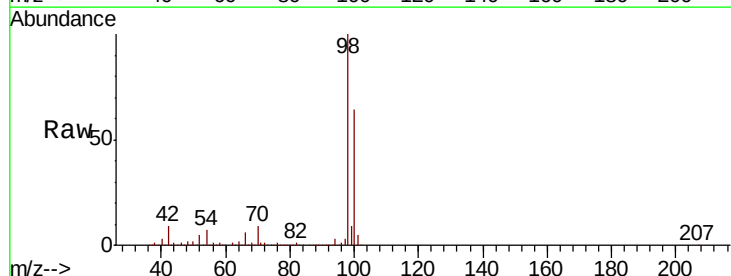
Acq: 24 Oct 2018 14:54

Tgt Ion: 98 Resp: 2189919

Ion Ratio Lower Upper

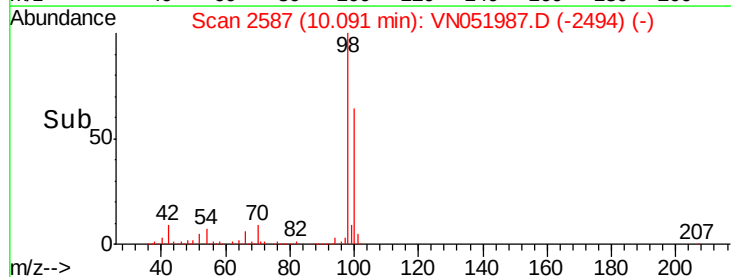
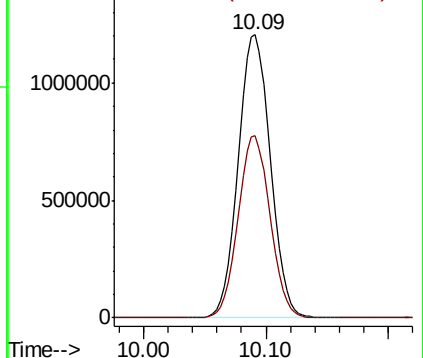
98 100

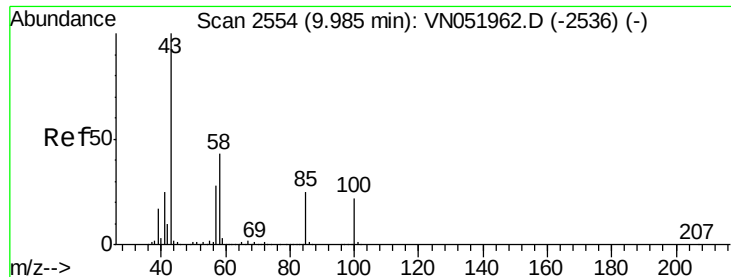
100 64.0 50.7 76.1



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: 0.363 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

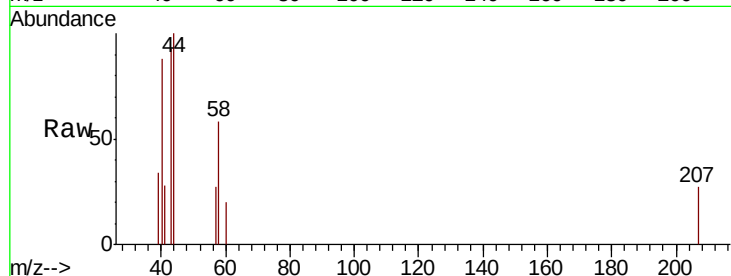
PB114120ZHE#03

Tot Ion: 43 Resp: 2036

Ion Ratio Lower Upper

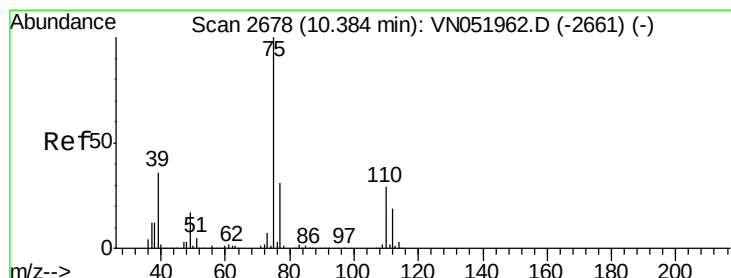
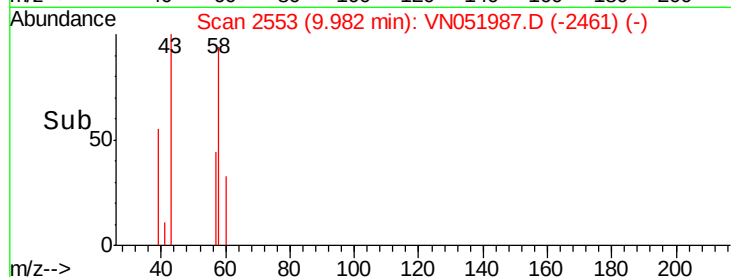
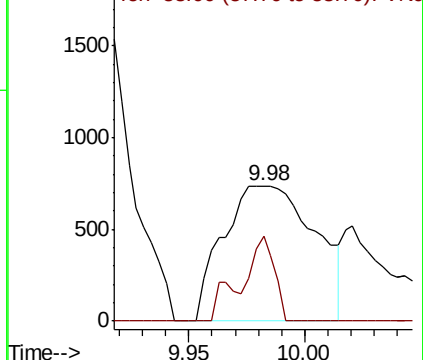
43 100

58 0.0 34.8 52.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#53

t-1,3-Dichloropropene

Concen: 1.249 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.00 min

Lab File: VN051987.D

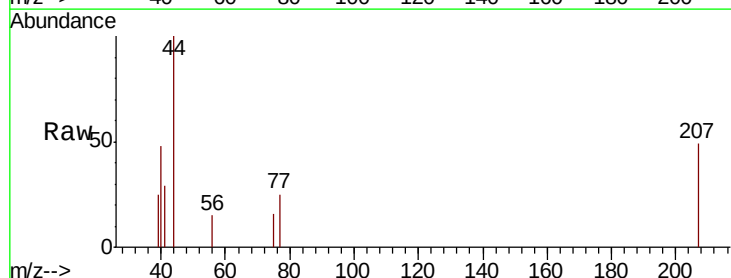
Acq: 24 Oct 2018 14:54

Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

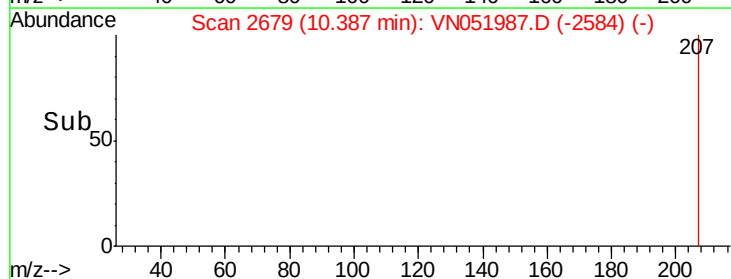
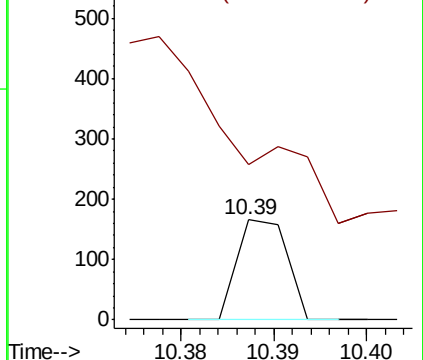
75 100

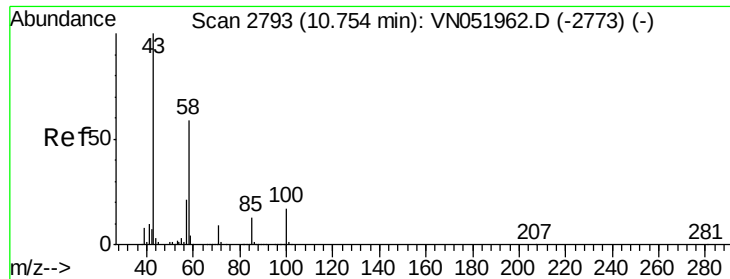
77 59.6 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

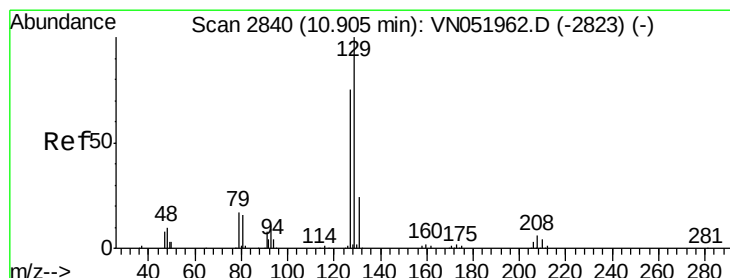
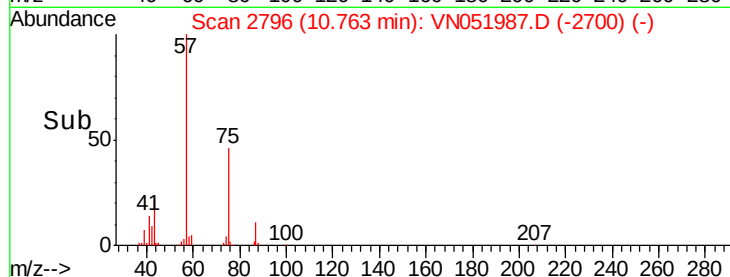
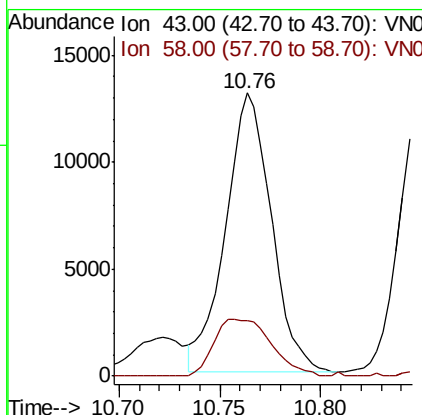
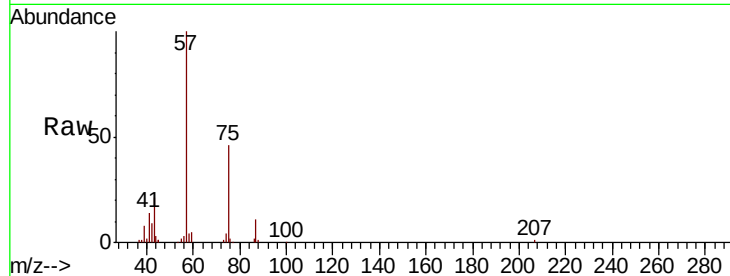




#59
2-Hexanone
Concen: 5.511 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051987.D
Acq: 24 Oct 2018 14:54

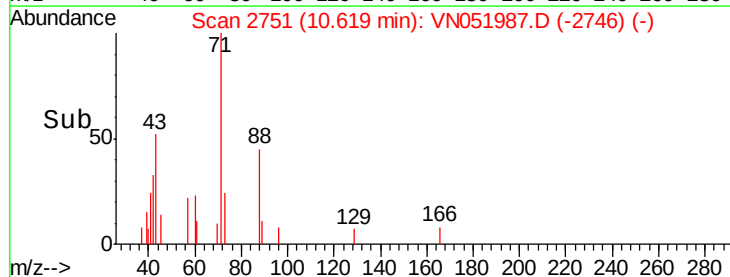
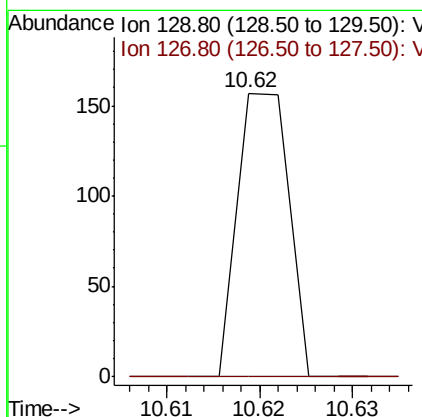
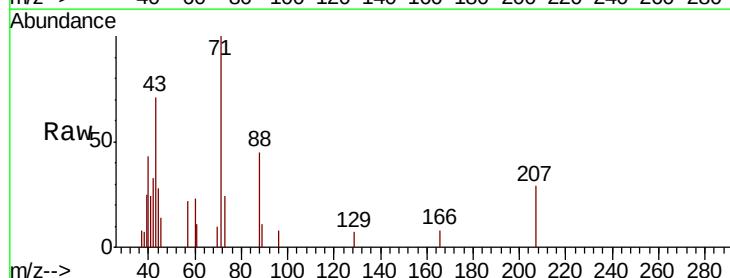
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#03

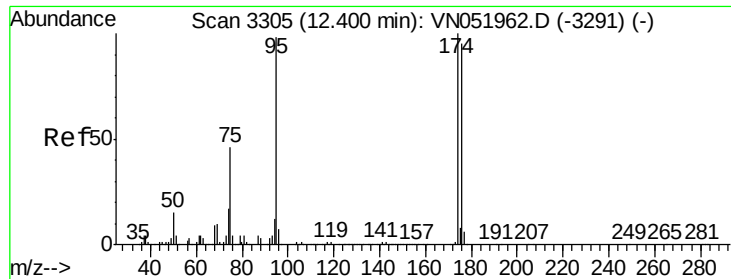
Tot Ion: 43 Resp: 20766
Ion Ratio Lower Upper
43 100
58 25.5 29.9 89.8#



#60
Dibromochloromethane
Concen: 1.983 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.29 min
Lab File: VN051987.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 129 Resp: 60
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#

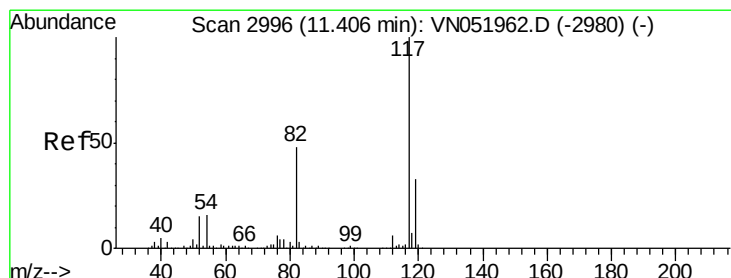
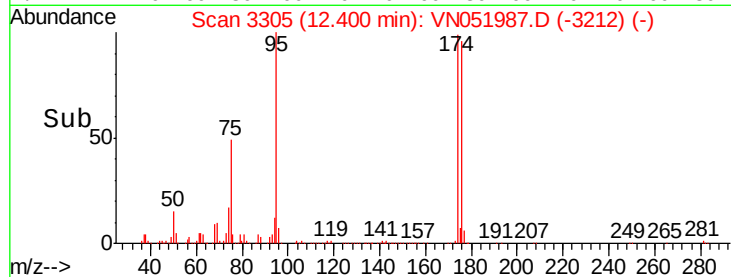
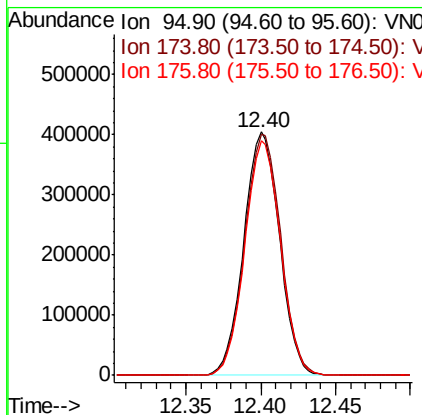
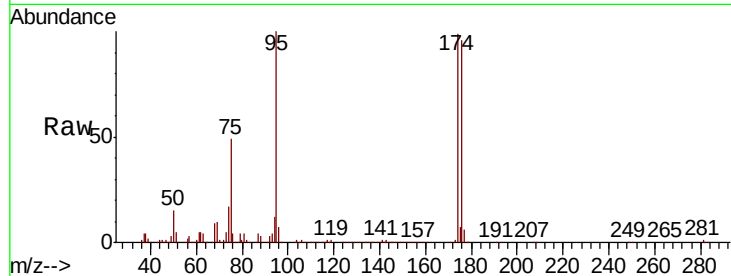




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051987.D
Acq: 24 Oct 2018 14:54

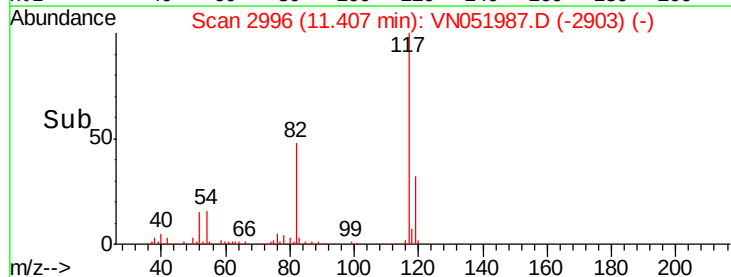
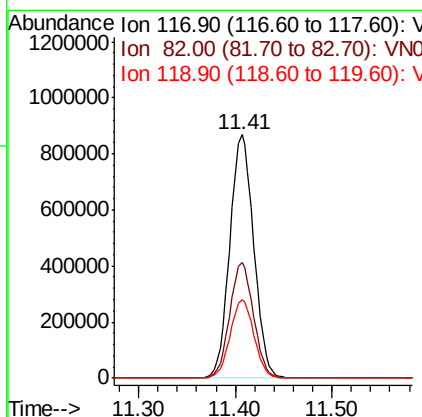
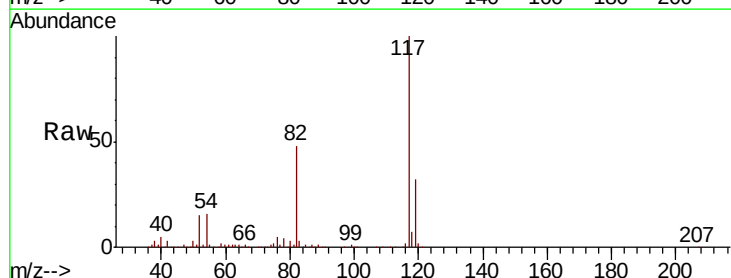
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#03

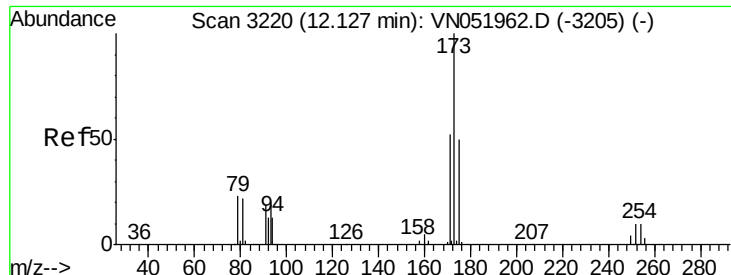
Tot Ion: 95 Resp: 671248
Ion Ratio Lower Upper
95 100
174 100.3 0.0 206.0
176 96.3 0.0 198.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051987.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 117 Resp: 1489817
Ion Ratio Lower Upper
117 100
82 47.5 38.1 57.1
119 32.4 26.4 39.6





#71

Bromoform

Concen: 4.397 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#03

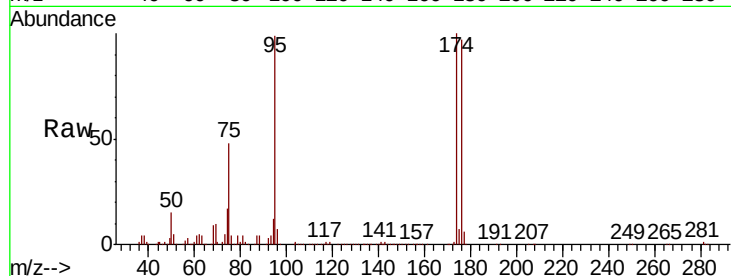
Tot Ion:173 Resp: 6086

Ion Ratio Lower Upper

173 100

175 730.8 24.6 74.0#

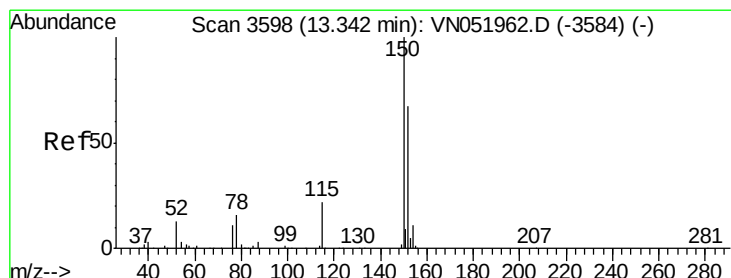
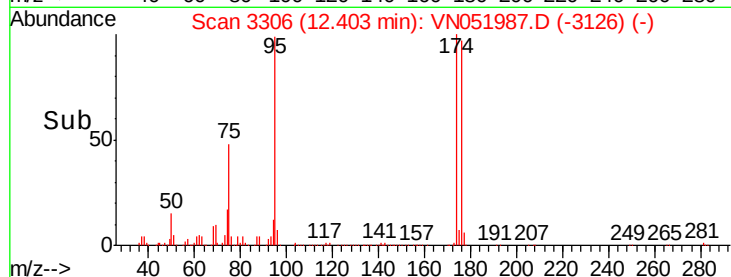
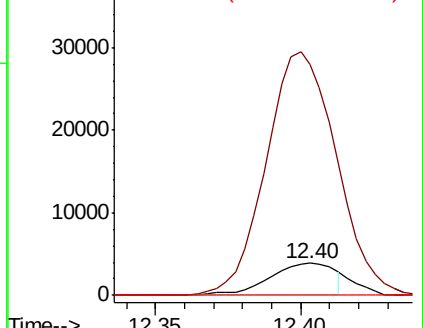
254 0.0 0.1 0.1#



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: VN051987.D

Acq: 24 Oct 2018 14:54

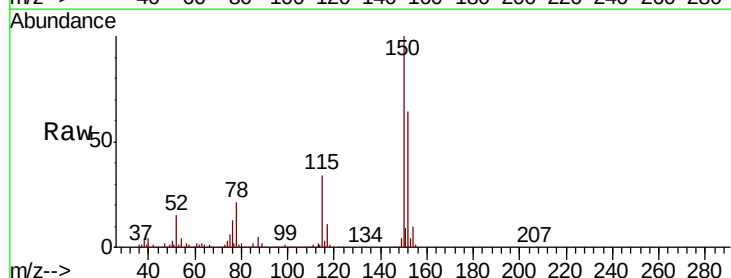
Tgt Ion:152 Resp: 660155

Ion Ratio Lower Upper

152 100

115 53.9 25.8 77.3

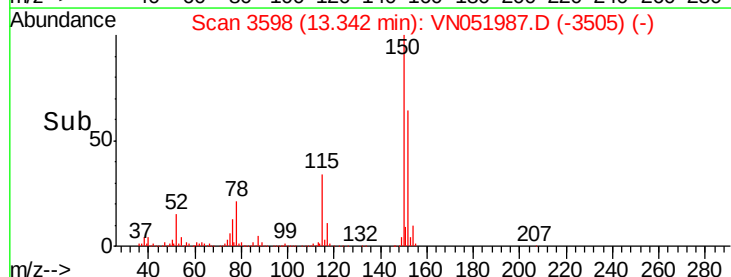
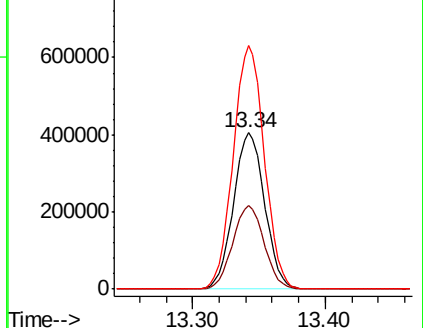
150 155.3 0.0 344.4

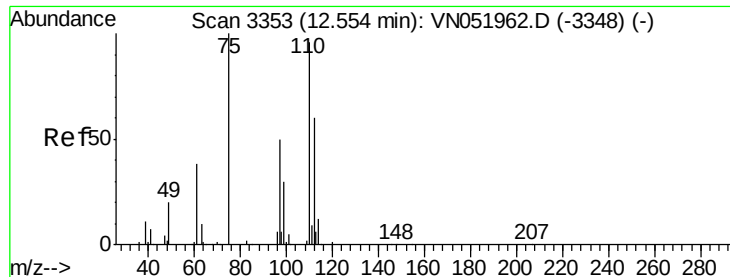


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 48.507 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

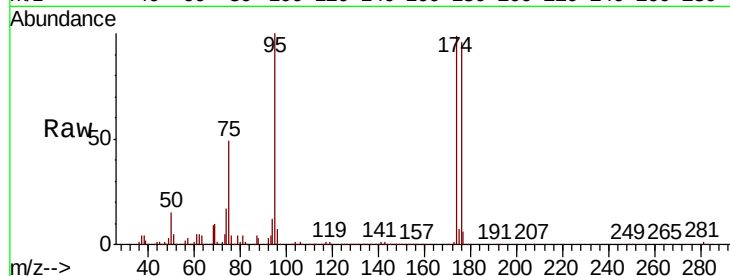
PB114120ZHE#03

Tot Ion: 75 Resp: 330774

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

200000

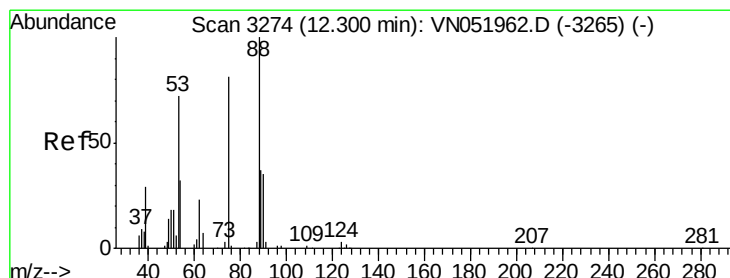
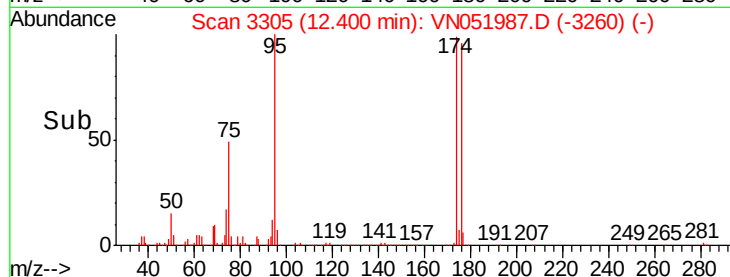
150000

100000

50000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 152.529 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051987.D

Acq: 24 Oct 2018 14:54

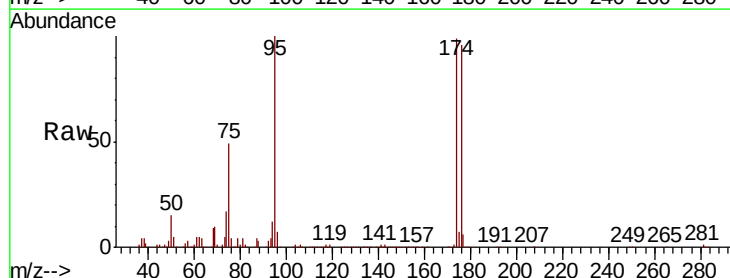
Tgt Ion: 75 Resp: 330774

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

250000

200000

150000

100000

50000

0

Time--> 12.30 12.35 12.40 12.45

