

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061031.D
 Acq On : 16 Apr 2020 22:44
 Operator : JC/MD
 Sample : L2304-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-F1-VOA

Quant Time: Apr 17 04:02:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	159615	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	271356	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	255946	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	117095	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	107356	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	7.56	113	79947	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
50) Toluene-d8	10.08	98	337597	56.38	ug/l	0.00
Spiked Amount			Recovery	=	112.76%	
62) 4-Bromofluorobenzene	12.39	95	127160	54.18	ug/l	0.00
Spiked Amount			Recovery	=	108.36%	

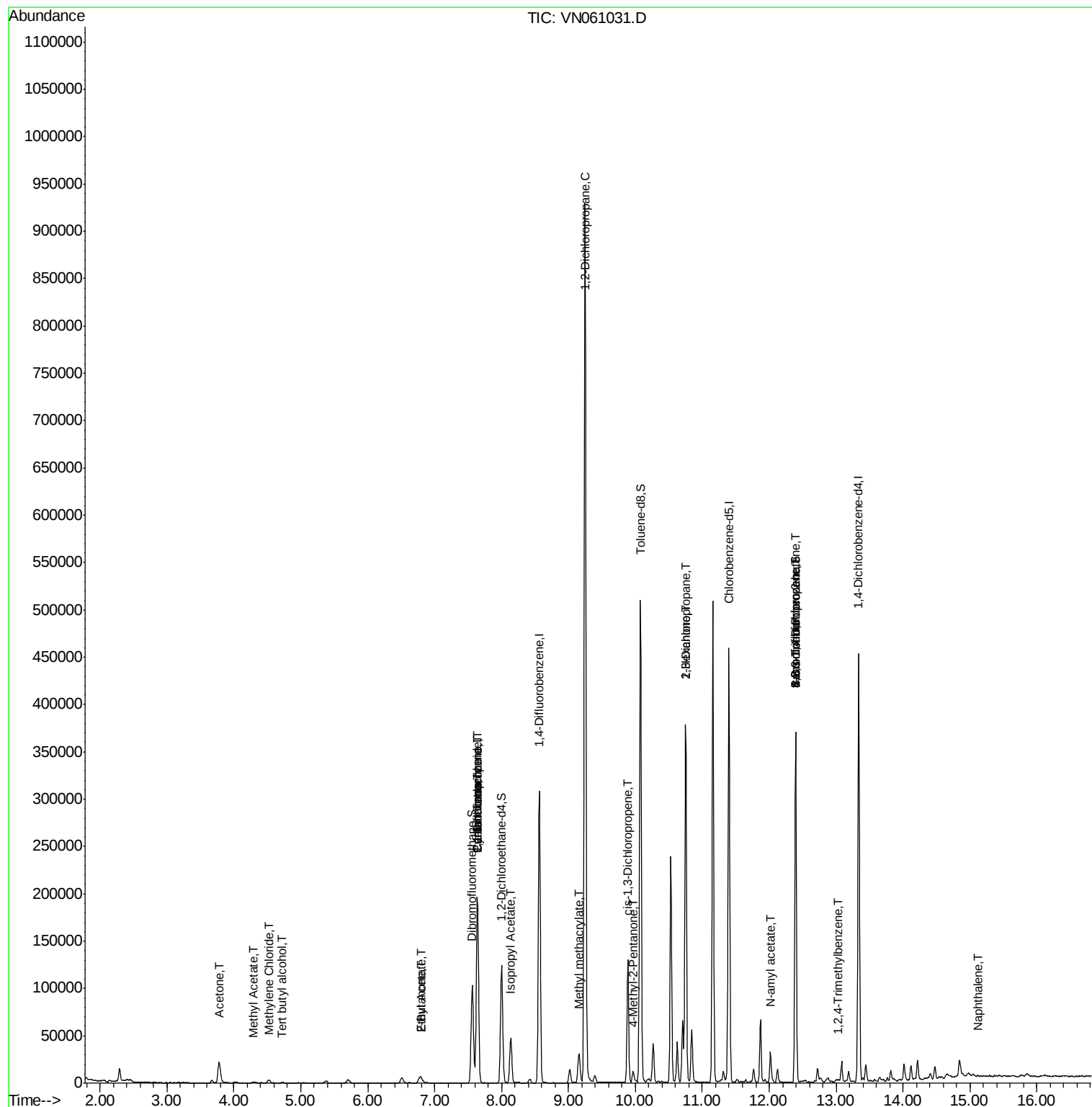
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	561	1.548	ug/l #	73
16) Acetone	3.78	43	37567	41.794	ug/l	99
18) Methyl Acetate	4.29	43	1720	0.610	ug/l #	63
20) Methylene Chloride	4.52	84	2414	1.230	ug/l	97
25) 2-Butanone	6.80	43	8906	6.466	ug/l	95
31) Cyclohexane	7.63	56	3452	0.907	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12848	4.588	ug/l #	49
37) Ethyl Acetate	6.80	43	8906	2.929	ug/l #	69
38) Carbon Tetrachloride	7.64	117	15682	6.728	ug/l #	15
43) Isopropyl Acetate	8.14	43	57719	11.672	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	985	0.439	ug/l #	43
48) Methyl methacrylate	9.15	41	8047	3.682	ug/l #	37
51) 4-Methyl-2-Pentanone	9.97	43	8015	2.812	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	22651	6.540	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3573	1.062	ug/l #	43
59) 2-Hexanone	10.75	43	63702	30.986	ug/l #	59
71) Bromoform	12.39	173	776	0.550	ug/l #	1
74) N-amyl acetate	12.02	43	22481	5.153	ug/l #	48
76) 1,2,3-Trichloropropane	12.39	75	64694	25.118	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	64694	61.955	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.03	105	1682	0.219	ug/l	83
95) Naphthalene	15.12	128	1455	0.226	ug/l #	72

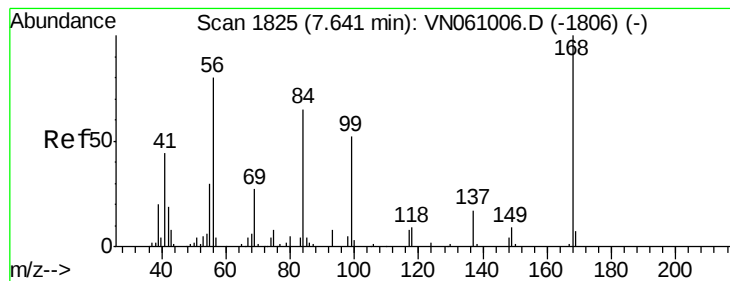
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 17 03:49:39 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

Instrument :

MSVOA_N

ClientSampleId :

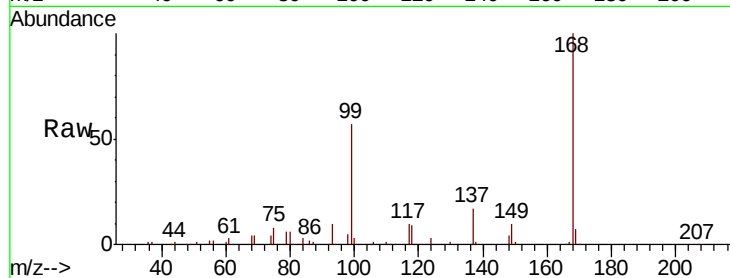
WC-F1-VOA

Tot Ion:168 Resp: 159615

Ion Ratio Lower Upper

168 100

99 57.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

60000

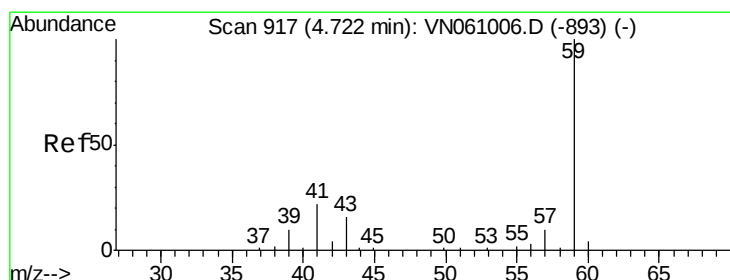
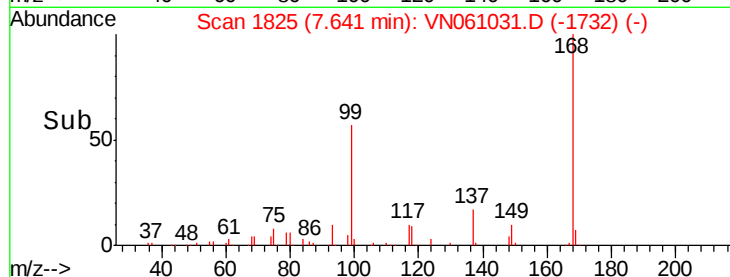
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 1.548 ug/l

RT: 4.73 min Scan# 918

Delta R.T. 0.00 min

Lab File: VN061031.D

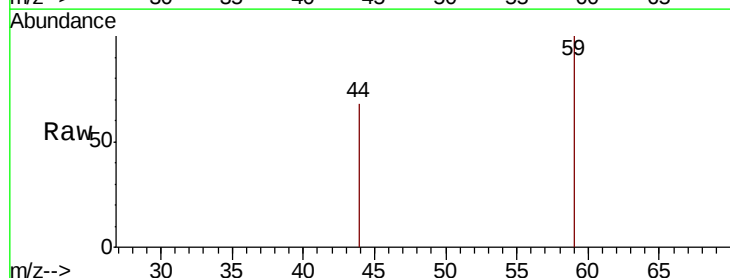
Acq: 16 Apr 2020 22:44

Tgt Ion: 59 Resp: 561

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

400

300

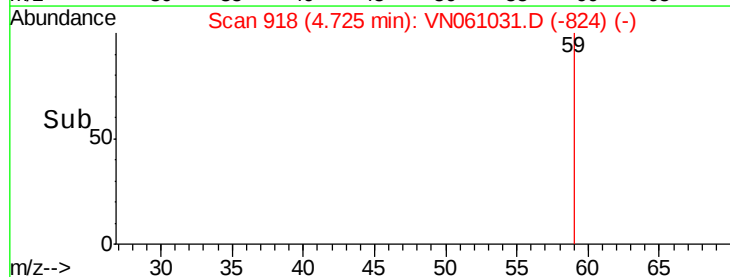
200

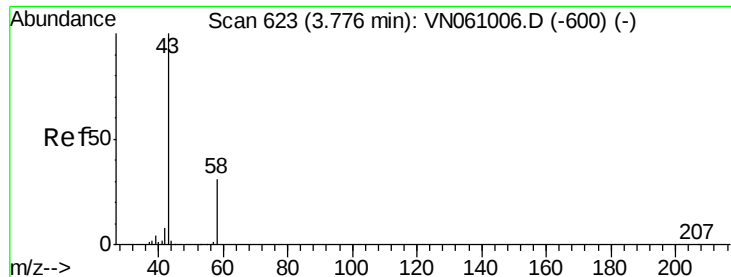
100

0

4.70 4.72 4.74 4.76

Time-->





#16

Acetone

Concen: 41.794 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

Instrument :

MSVOA_N

ClientSampleId :

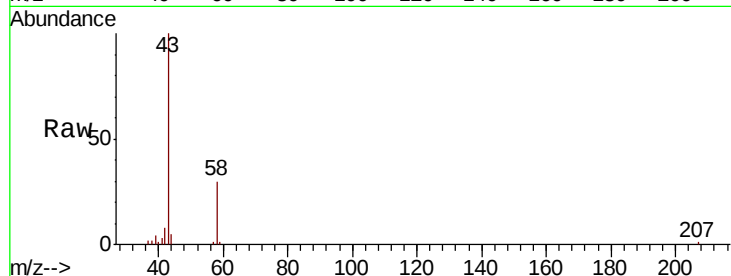
WC-F1-VOA

Tot Ion: 43 Resp: 37567

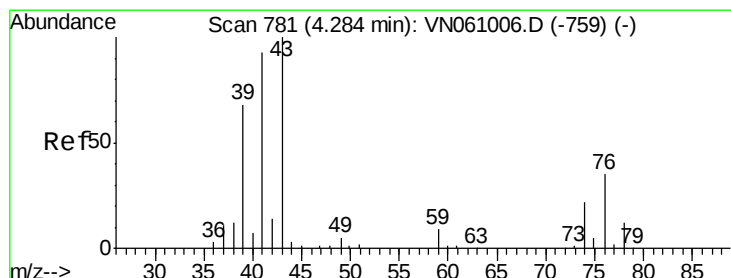
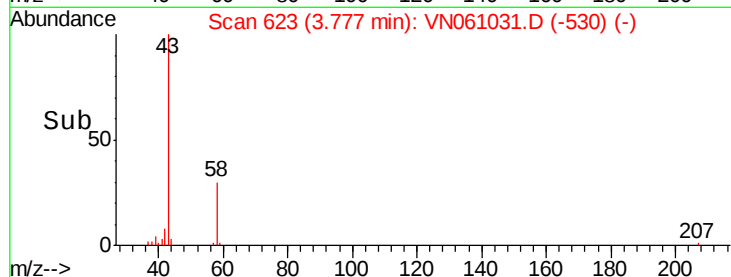
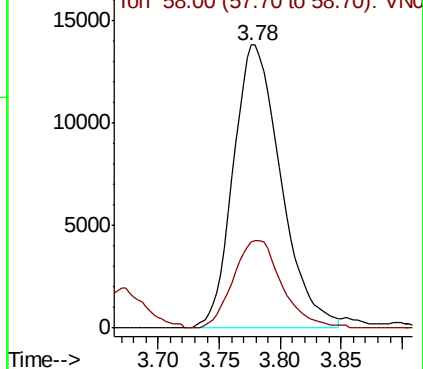
Ion Ratio Lower Upper

43 100

58 30.3 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-600) (-)



#18

Methyl Acetate

Concen: 0.610 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN061031.D

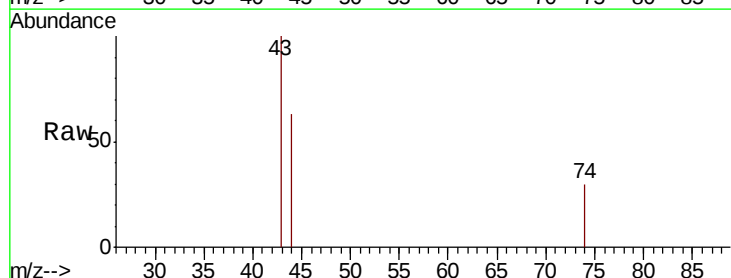
Acq: 16 Apr 2020 22:44

Tgt Ion: 43 Resp: 1720

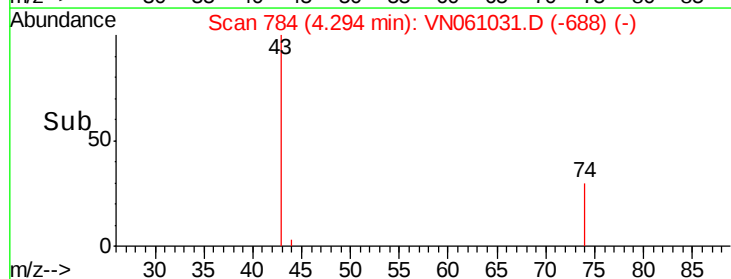
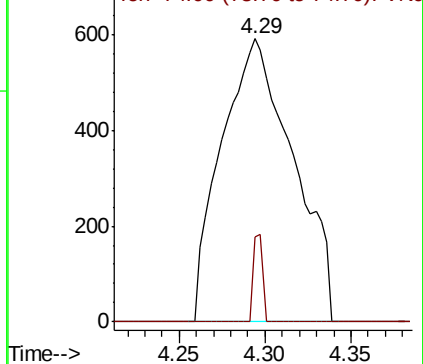
Ion Ratio Lower Upper

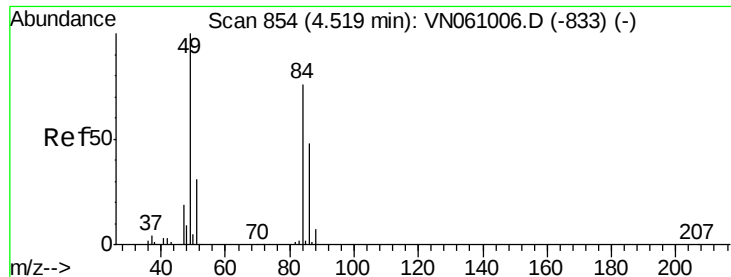
43 100

74 4.0 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-759) (-)

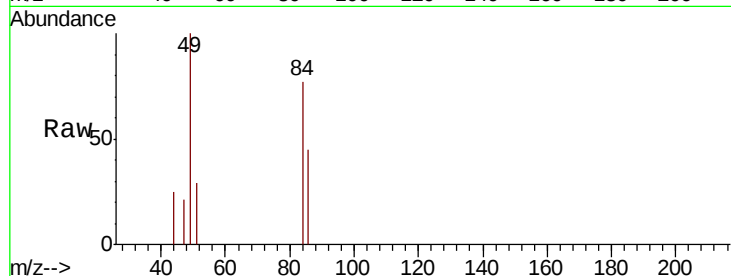




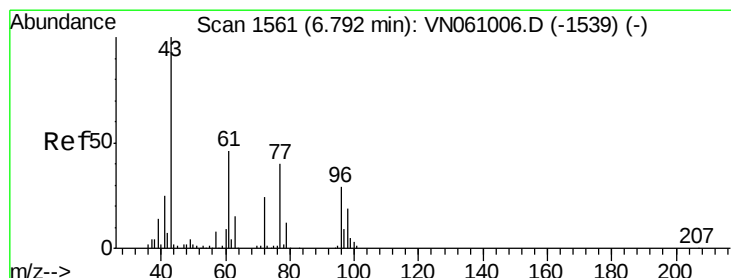
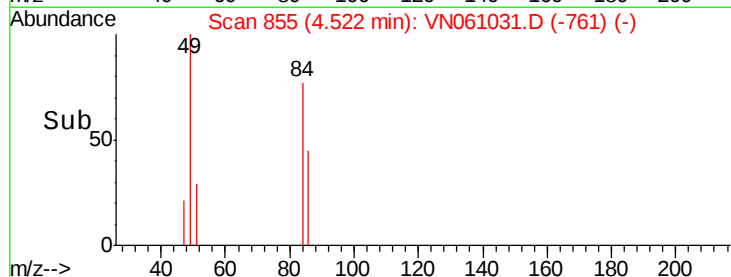
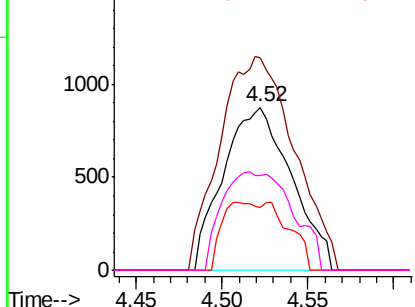
#20
Methvlene Chloride
Concen: 1.230 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061031.D
Acq: 16 Apr 2020 22:44

Instrument :
MSVOA_N
ClientSampleId :
WC-F1-VOA

Tot Ion: 84 Resp: 2414
Ion Ratio Lower Upper
84 100
49 130.7 105.8 158.6
51 38.5 32.4 48.6
86 58.4 51.1 76.7

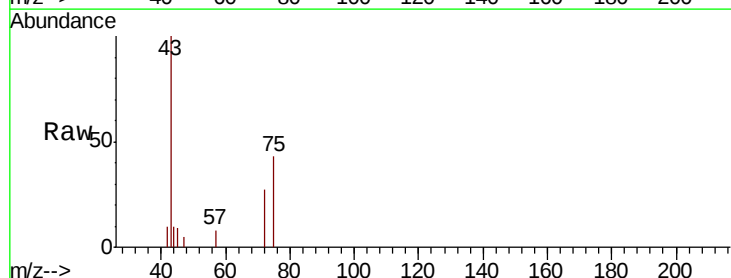


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

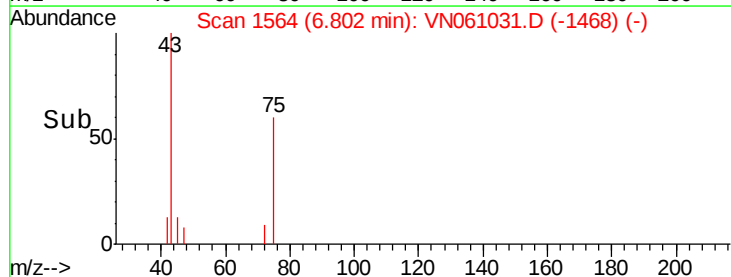
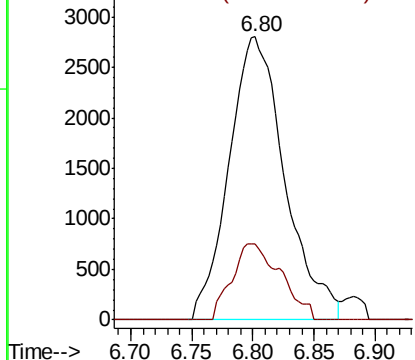


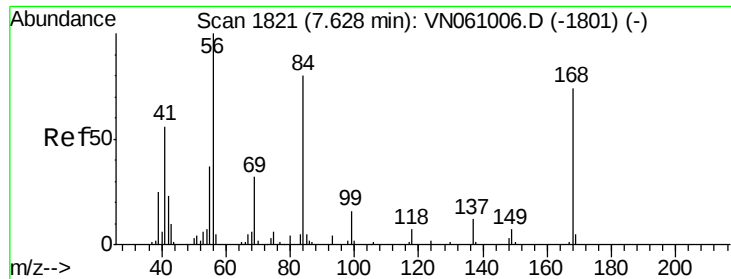
#25
2-Butanone
Concen: 6.466 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN061031.D
Acq: 16 Apr 2020 22:44

Tgt Ion: 43 Resp: 8906
Ion Ratio Lower Upper
43 100
72 26.9 19.6 29.4



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





#31

Cyclohexane

Concen: 0.907 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

Instrument :

MSVOA_N

ClientSampleId :

WC-F1-VOA

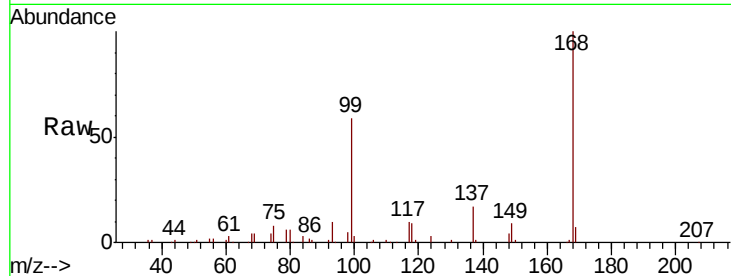
Tot Ion: 56 Resp: 3452

Ion Ratio Lower Upper

56 100

69 188.0 25.6 38.4#

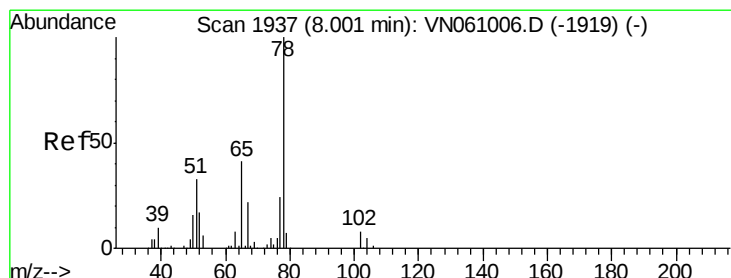
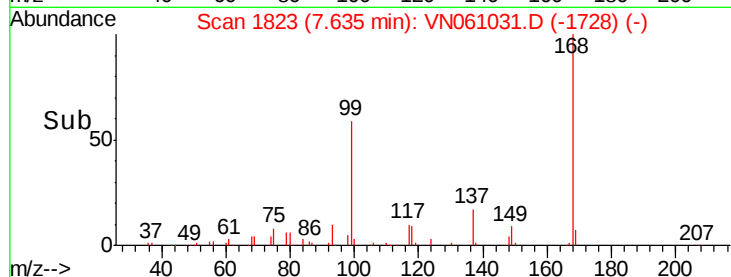
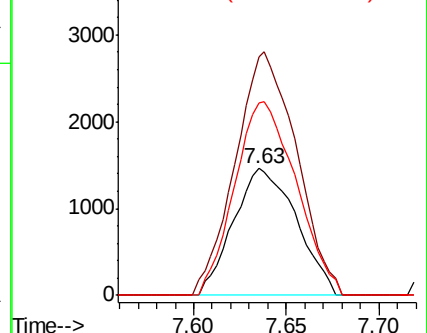
84 152.3 63.4 95.2#



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: 52.570 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061031.D

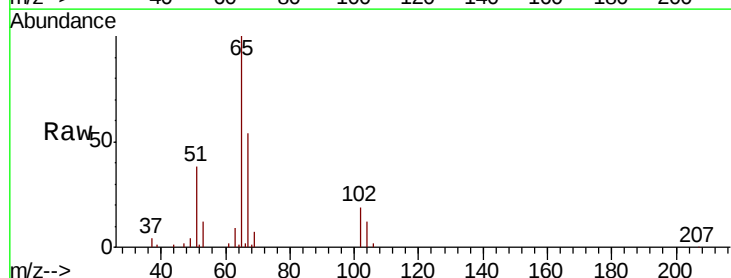
Acq: 16 Apr 2020 22:44

Tgt Ion: 65 Resp: 107356

Ion Ratio Lower Upper

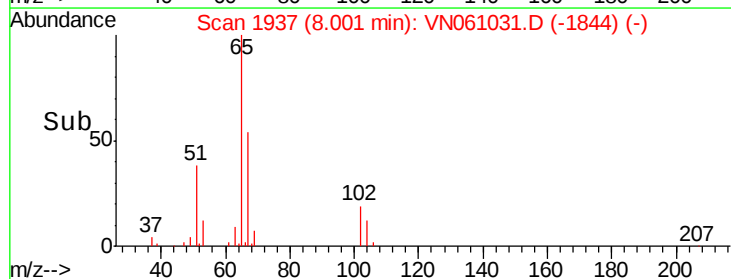
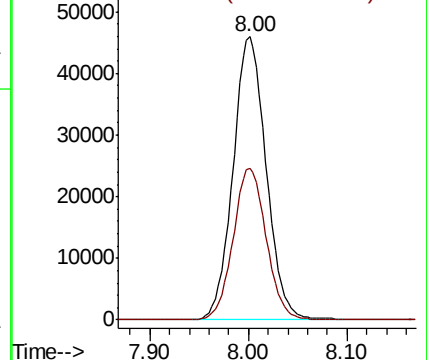
65 100

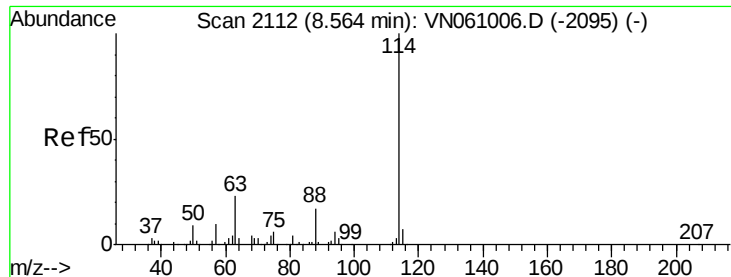
67 53.4 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

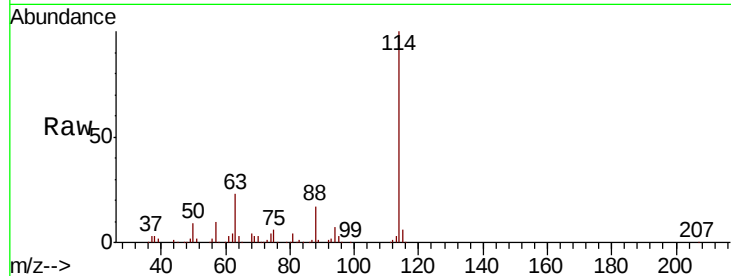




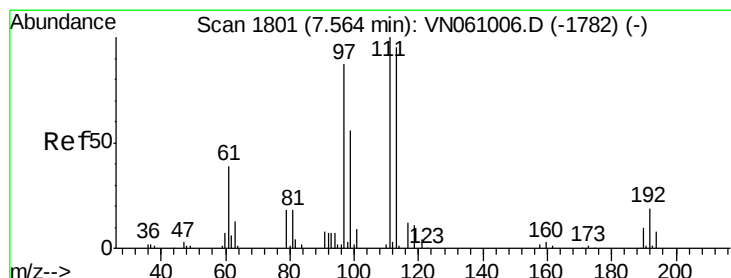
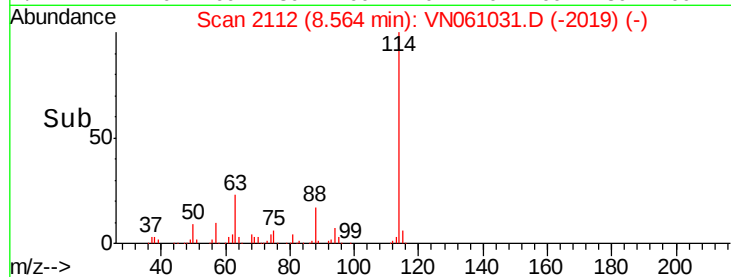
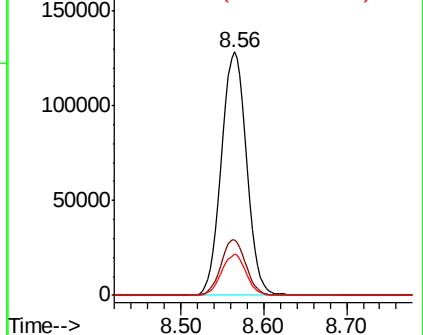
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061031.D
 Acq: 16 Apr 2020 22:44

Instrument :
 MSVOA_N
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 WC-F1-VOA

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	46.2
88	16.8	0.0	33.4

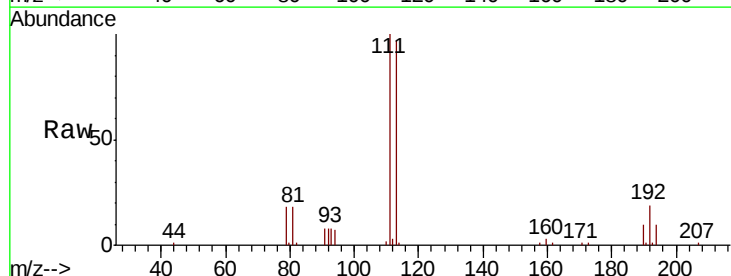


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

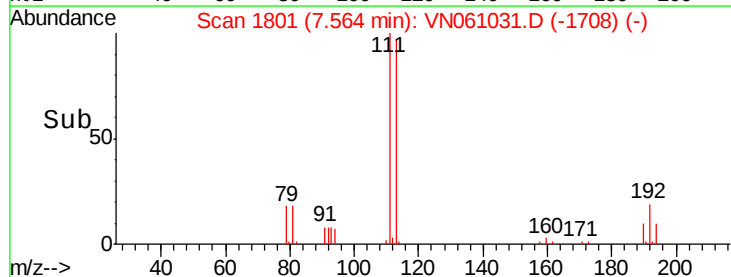
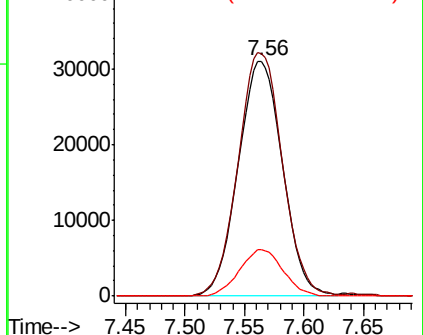


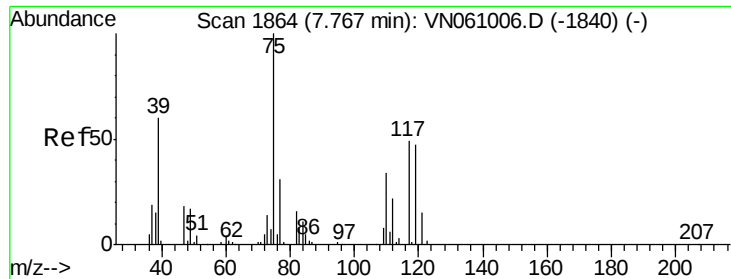
#35
 Dibromofluoromethane
 Concen: 50.450 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061031.D
 Acq: 16 Apr 2020 22:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.4	125.2
192	19.4	15.5	23.3



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: 4.588 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

Instrument :

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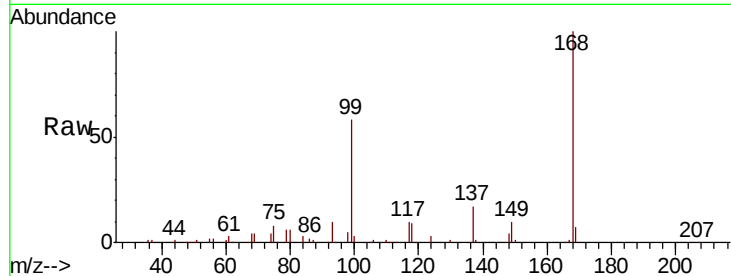
Tot Ion: 75 Resp: 12848

Ion Ratio Lower Upper

75 100

110 7.0 16.8 50.3#

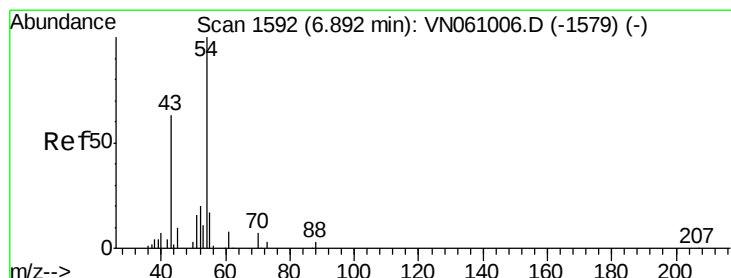
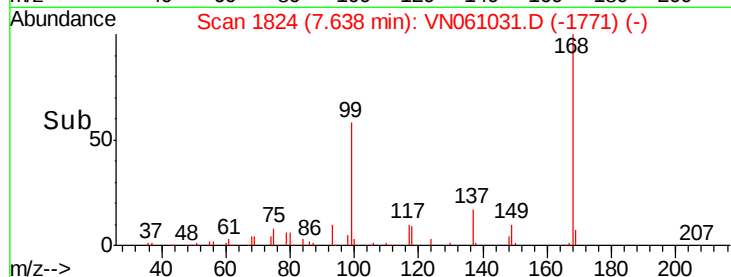
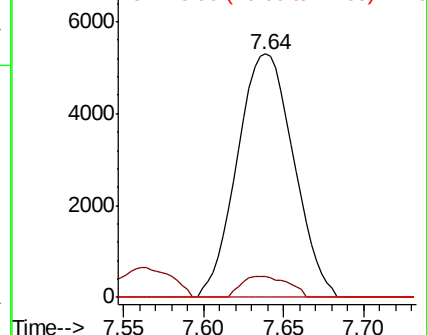
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VN061006.D (-1840) (-)

Ion 109.90 (109.60 to 110.60): VN061006.D (-1840) (-)

Ion 76.90 (76.60 to 77.60): VN061006.D (-1840) (-)



#37

Ethyl Acetate

Concen: 2.929 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.09 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

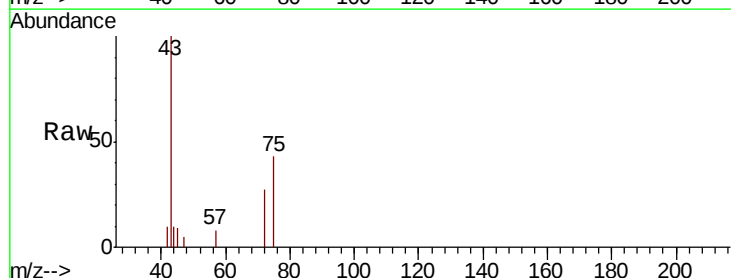
Tgt Ion: 43 Resp: 8906

Ion Ratio Lower Upper

43 100

61 0.0 10.9 16.3#

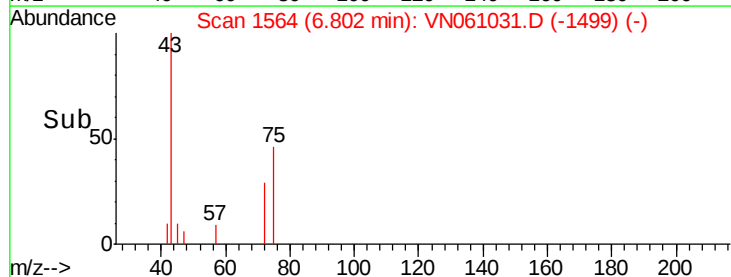
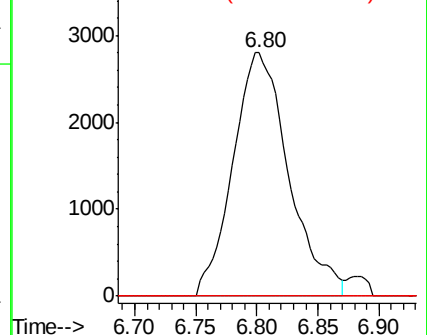
70 0.0 7.7 11.5#

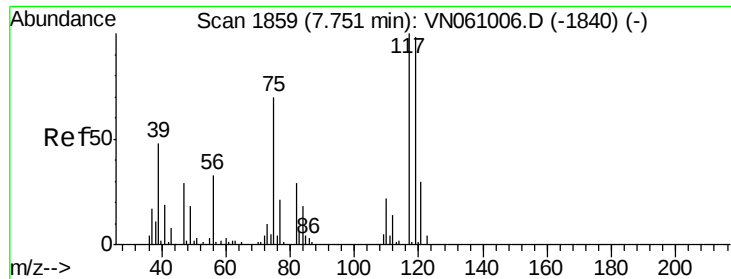


Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-1579) (-)

Ion 60.90 (60.60 to 61.60): VN061006.D (-1579) (-)

Ion 70.00 (69.70 to 70.70): VN061006.D (-1579) (-)





#38

Carbon Tetrachloride

Concen: 6.728 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

Instrument :

MSVOA_N

ClientSampleId :

WC-F1-VOA

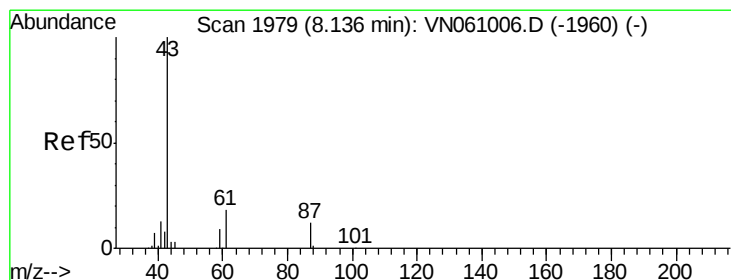
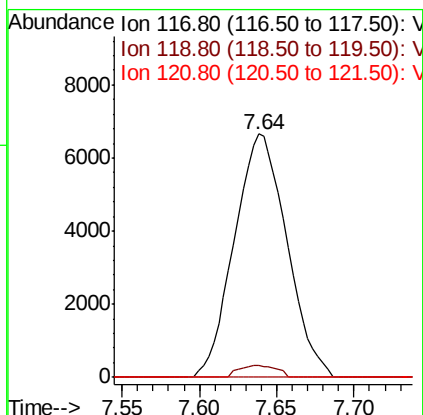
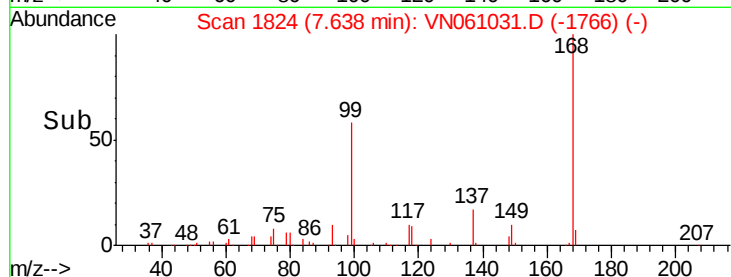
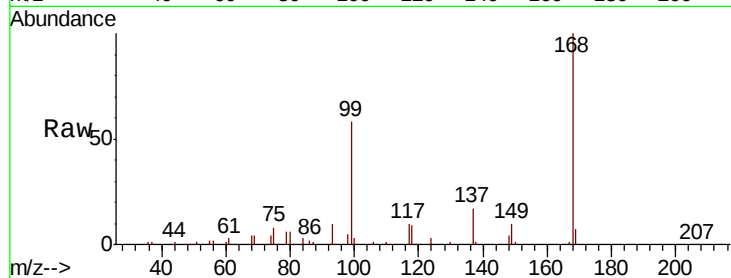
Tot Ion:117 Resp: 15682

Ion Ratio Lower Upper

117 100

119 4.8 78.1 117.1#

121 0.0 24.0 36.0#



#43

Isopropyl Acetate

Concen: 11.672 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

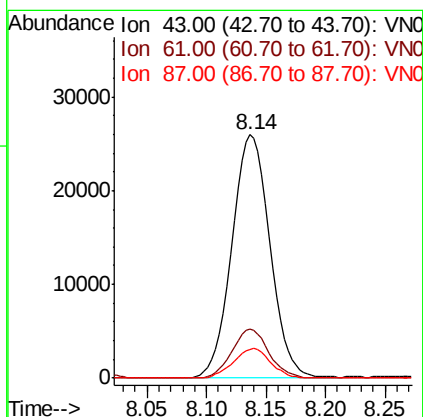
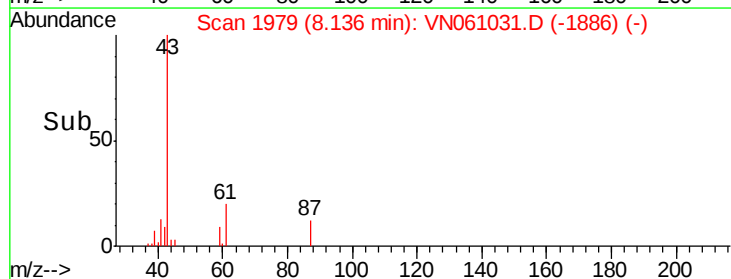
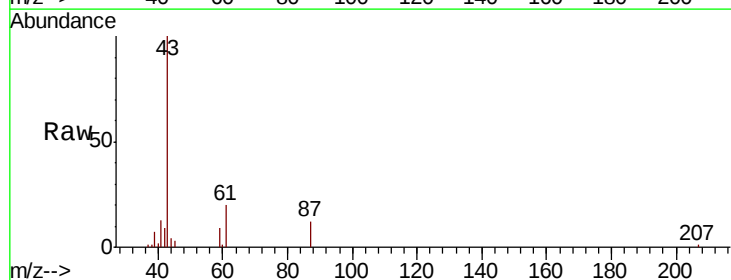
Tgt Ion: 43 Resp: 57719

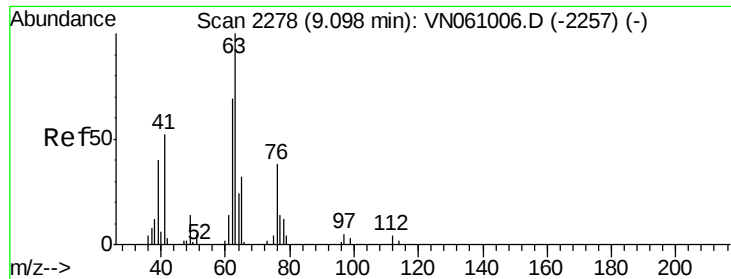
Ion Ratio Lower Upper

43 100

61 19.3 20.3 30.5#

87 11.8 9.4 14.2





#45

1,2-Dichloropropane

Concen: 0.439 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.15 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

Instrument :

MSVOA_N

ClientSampleId :

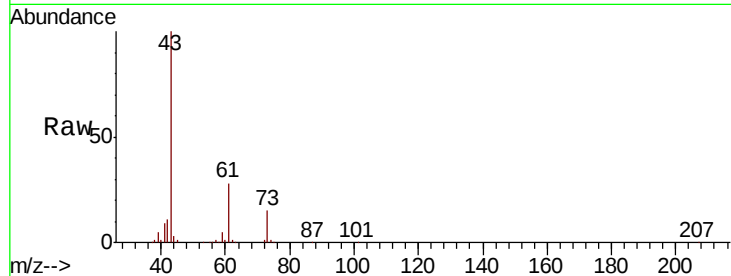
WC-F1-VOA

Tot Ion: 63 Resp: 985

Ion Ratio Lower Upper

63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

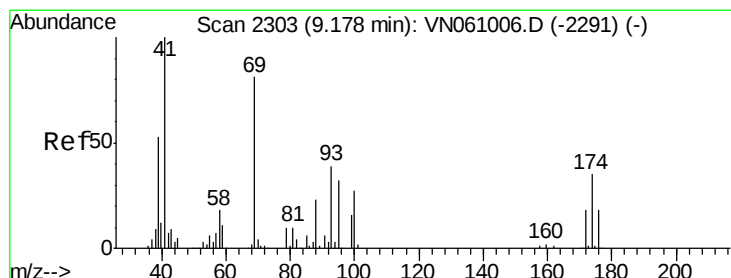
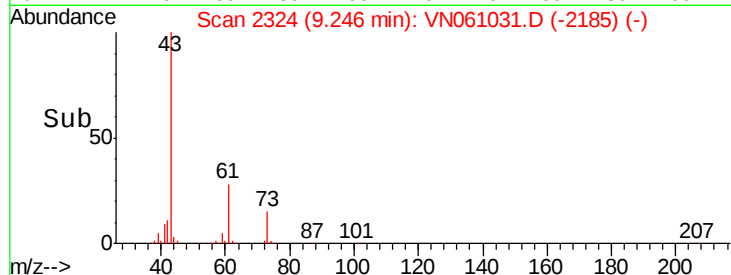
600

400

200

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 3.682 ug/l

RT: 9.15 min Scan# 2295

Delta R.T. -0.03 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

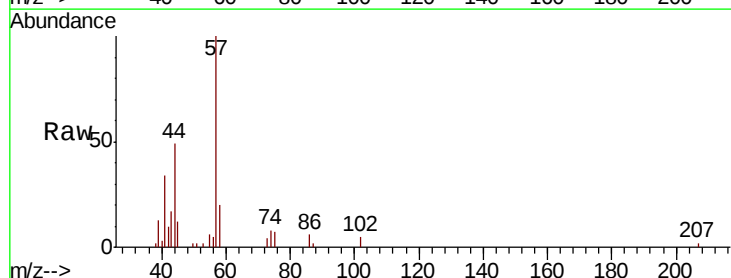
Tgt Ion: 41 Resp: 8047

Ion Ratio Lower Upper

41 100

69 0.0 65.3 97.9#

39 41.3 45.2 67.8#



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

60000

50000

40000

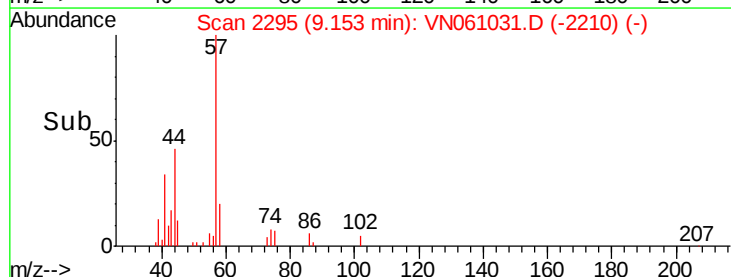
30000

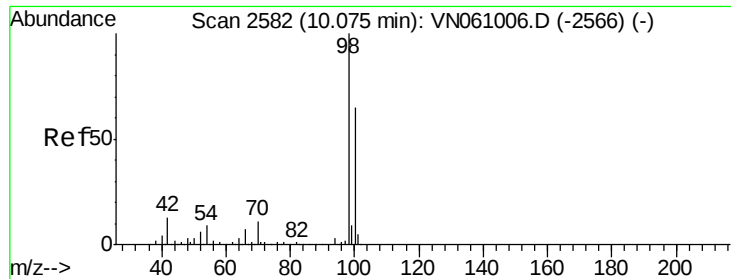
20000

10000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 56.377 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.00 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

Instrument :

MSVOA_N

ClientSampled :

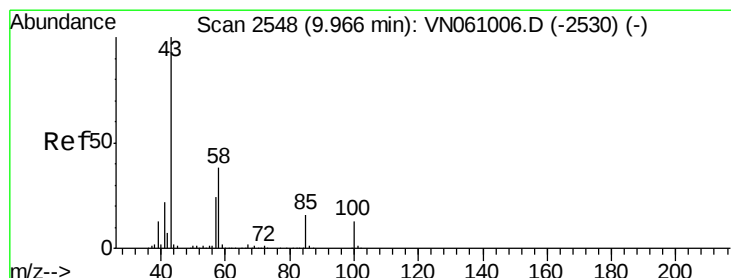
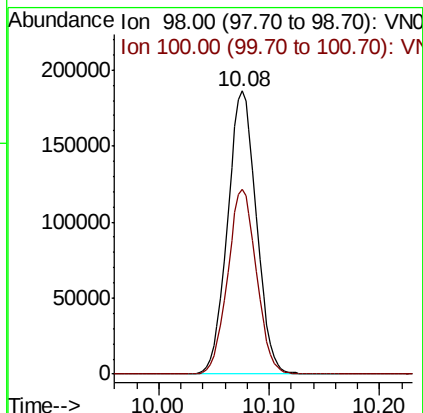
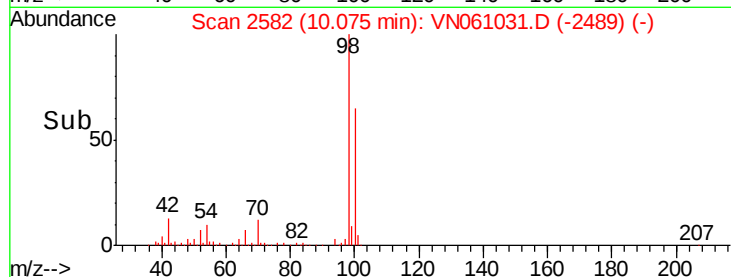
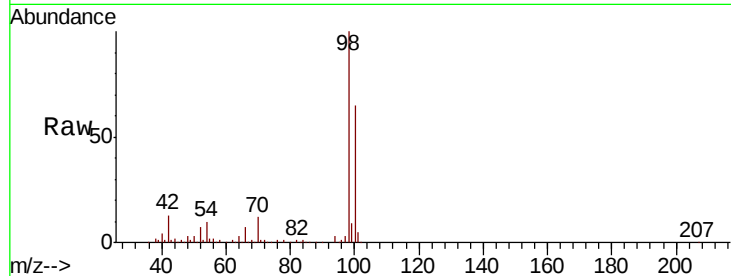
WC-F1-VOA

Tot Ion: 98 Resp: 337597

Ion Ratio Lower Upper

98 100

100 65.2 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 2.812 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.00 min

Lab File: VN061031.D

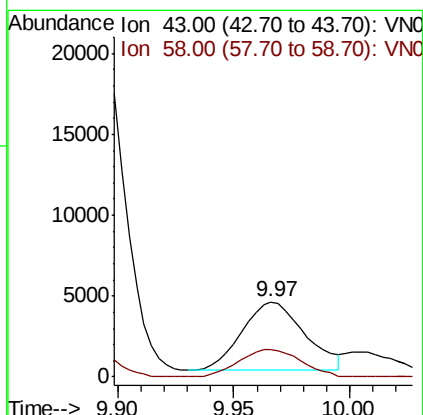
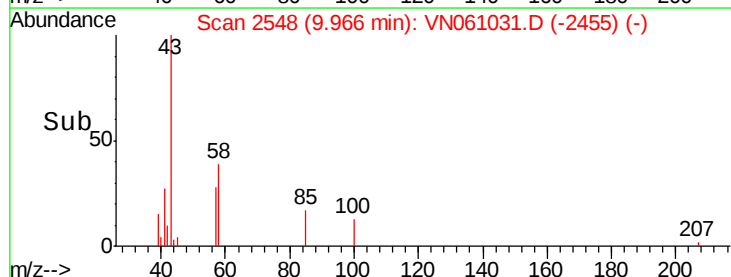
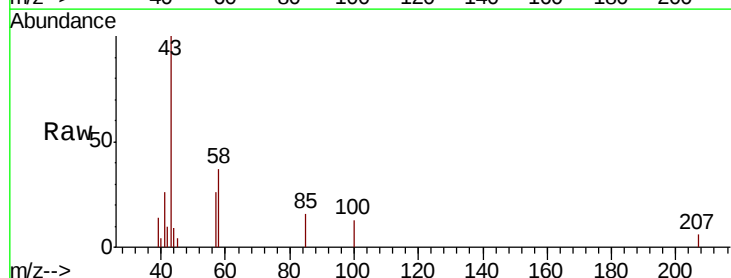
Acq: 16 Apr 2020 22:44

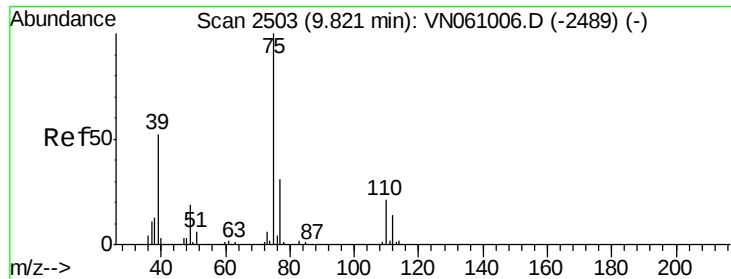
Tgt Ion: 43 Resp: 8015

Ion Ratio Lower Upper

43 100

58 39.3 30.3 45.5

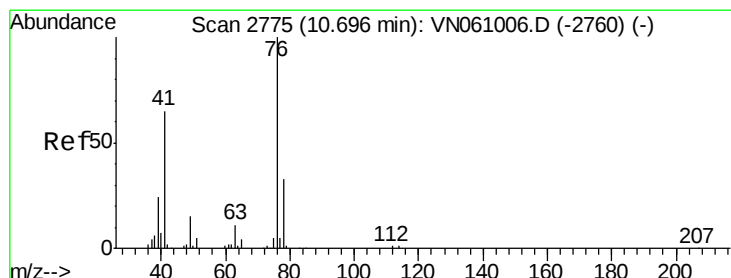
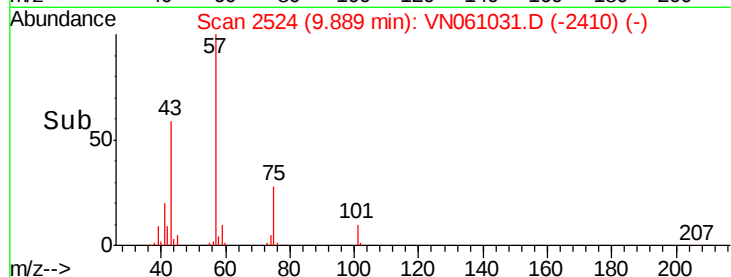
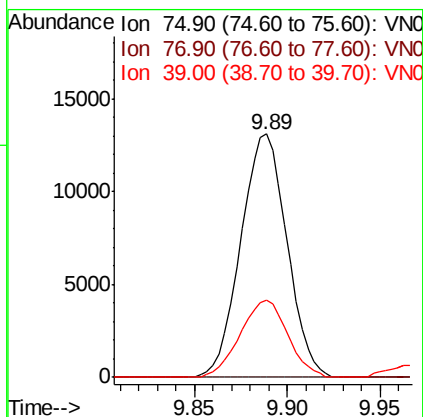
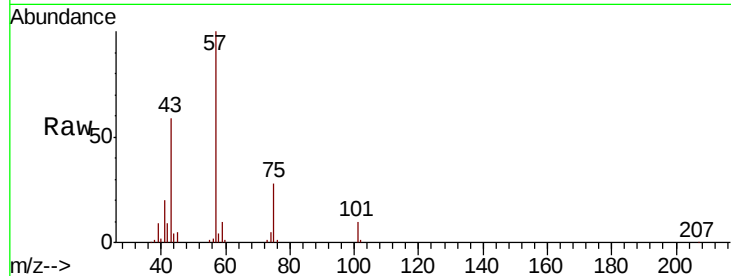




#54
 cis-1,3-Dichloropropene
 Concen: 6.540 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.07 min
 Lab File: VN061031.D
 Acq: 16 Apr 2020 22:44

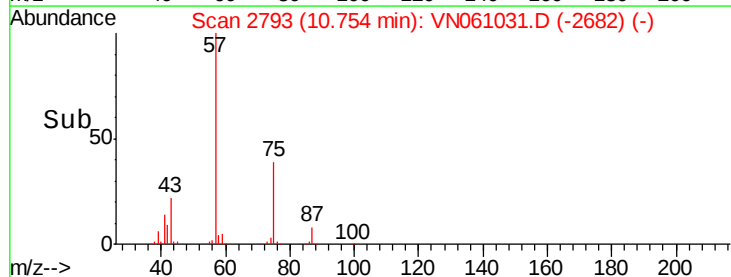
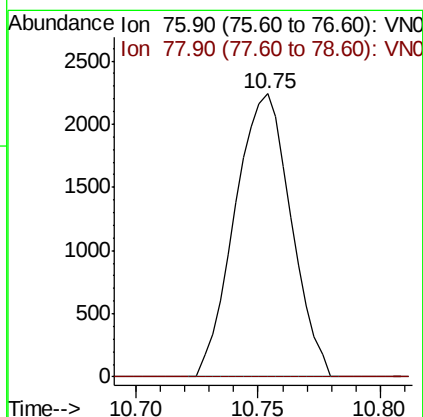
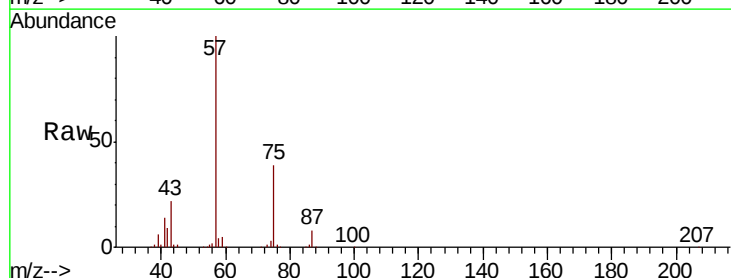
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-F1-VOA

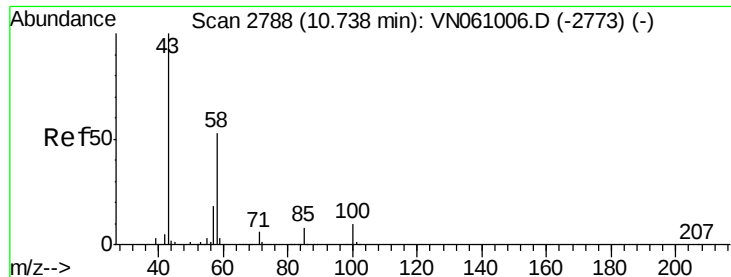
Tot Ion: 75 Resp: 22651
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 31.6 41.4 62.2#



#57
 1,3-Dichloropropane
 Concen: 1.062 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN061031.D
 Acq: 16 Apr 2020 22:44

Tgt Ion: 76 Resp: 3573
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#

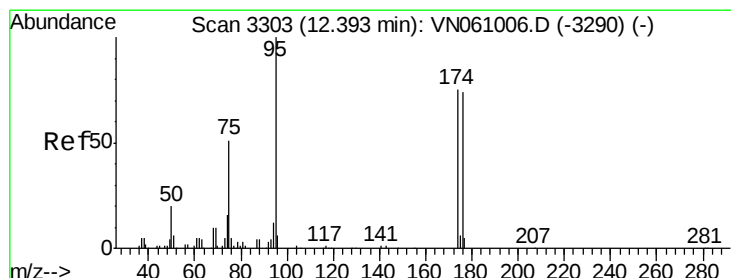
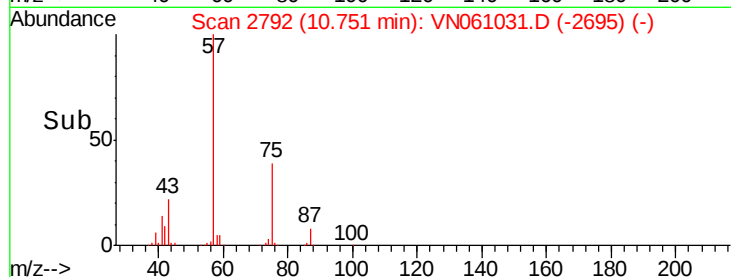
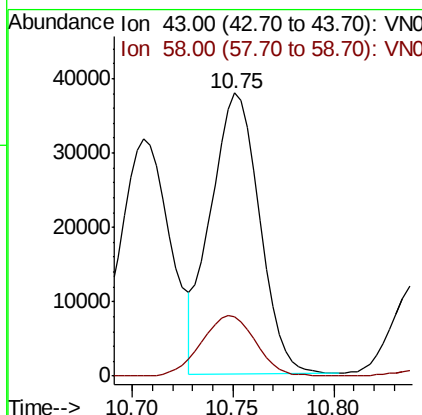
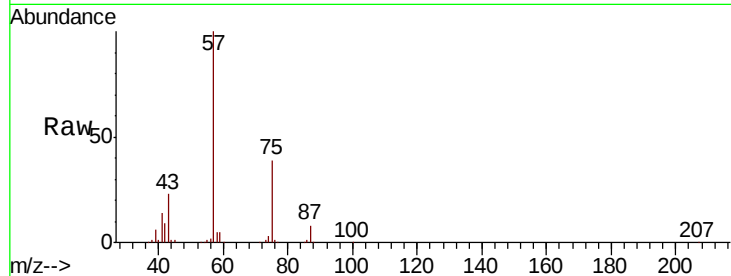




#59
2-Hexanone
Concen: 30.986 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN061031.D
Acq: 16 Apr 2020 22:44

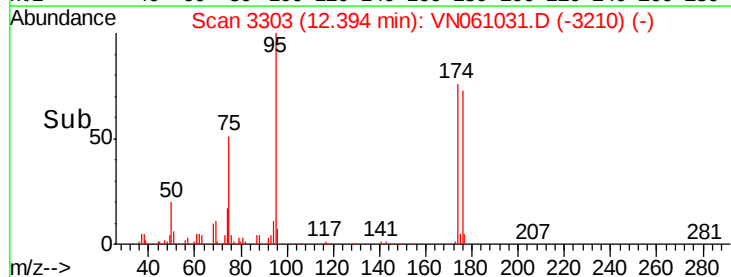
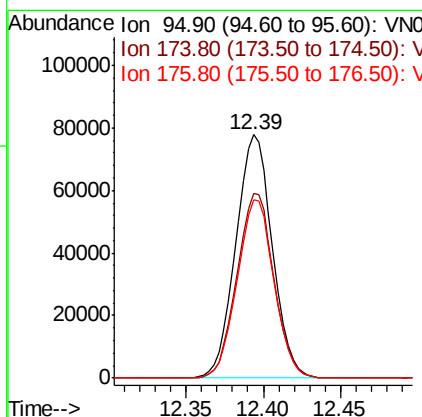
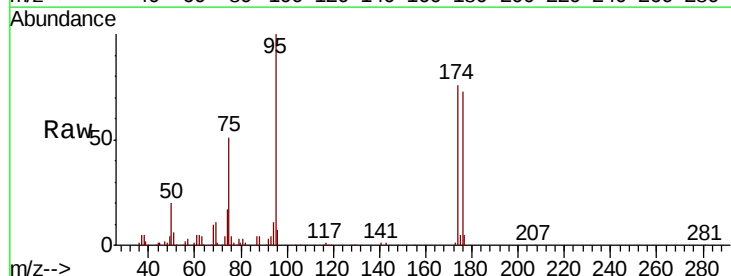
Instrument :
MSVOA_N
ClientSampleId :
WC-F1-VOA

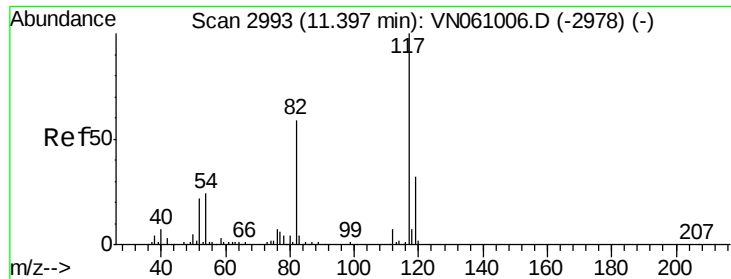
Tot Ion: 43 Resp: 63702
Ion Ratio Lower Upper
43 100
58 23.8 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 54.181 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061031.D
Acq: 16 Apr 2020 22:44

Tgt Ion: 95 Resp: 127160
Ion Ratio Lower Upper
95 100
174 77.0 0.0 151.2
176 74.1 0.0 148.2

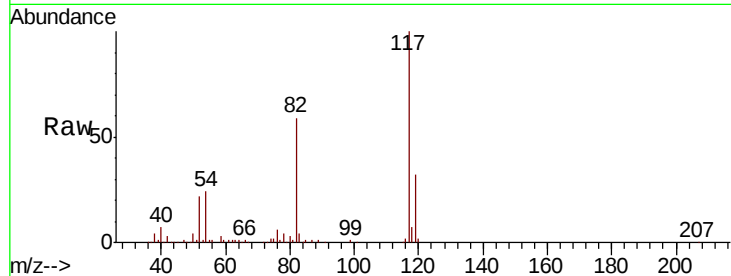




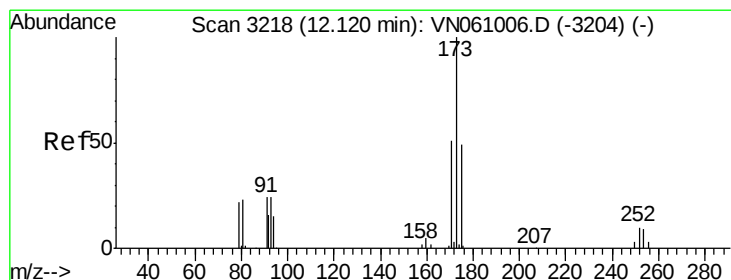
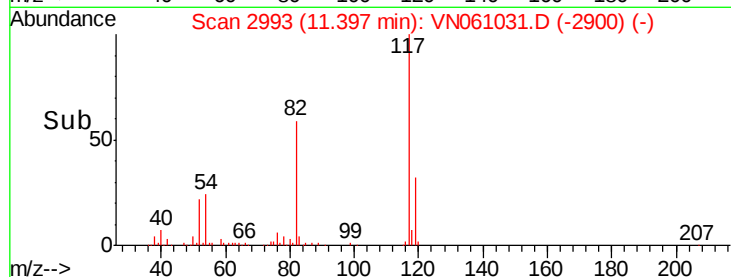
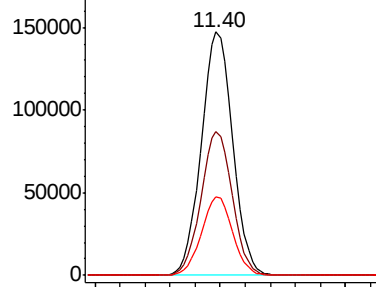
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061031.D
Acq: 16 Apr 2020 22:44

Instrument :
MSVOA_N
ClientSampleId :
WC-F1-VOA

Tot Ion:117 Resp: 255946
Ion Ratio Lower Upper
117 100
82 58.9 47.1 70.7
119 32.2 25.7 38.5

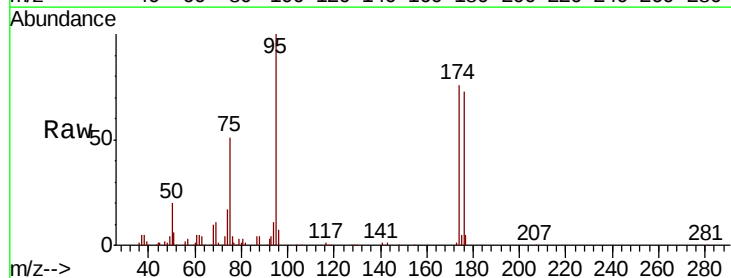


Abundance Ion 116.90 (116.60 to 117.60): V
200000 Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

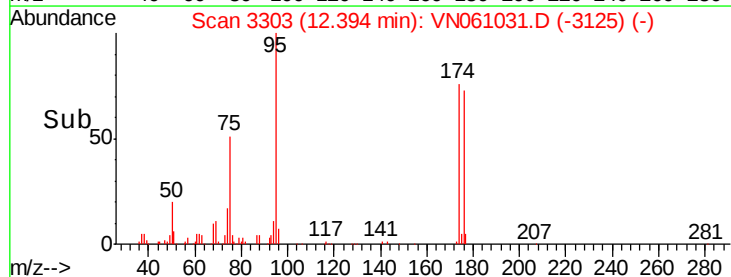
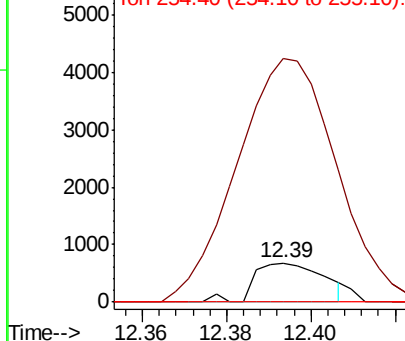


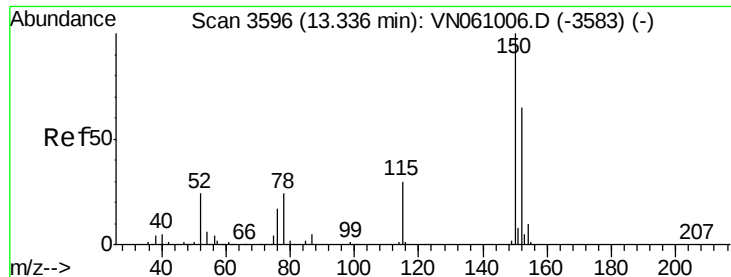
#71
Bromoform
Concen: 0.550 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN061031.D
Acq: 16 Apr 2020 22:44

Tgt Ion:173 Resp: 776
Ion Ratio Lower Upper
173 100
175 809.0 24.5 73.5#
254 0.0 0.0 0.0



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



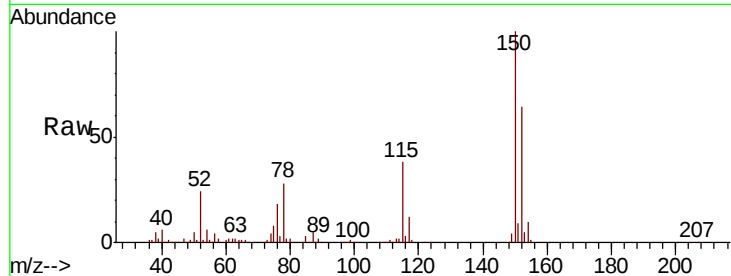


#72

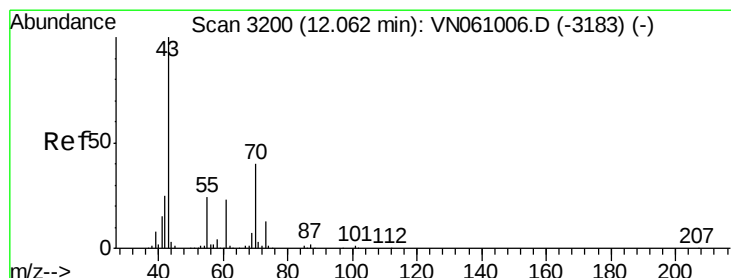
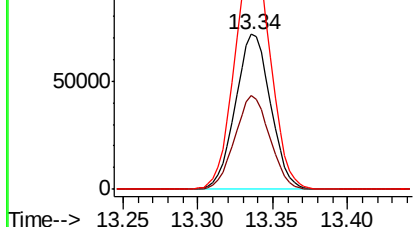
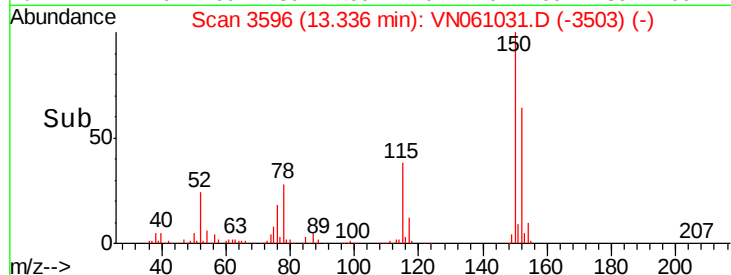
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3596
Delta R.T. 0.00 min
Lab File: VN061031.D
Acq: 16 Apr 2020 22:44

Instrument :
MSVOA_N
ClientSampled :
WC-F1-VOA

Tot Ion:152 Resp: 117095
Ion Ratio Lower Upper
152 100
115 59.9 30.8 92.4
150 156.2 0.0 349.0



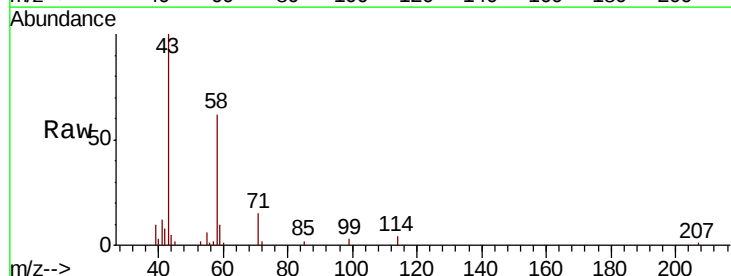
Abundance Ion 151.90 (151.60 to 152.60): V
150000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



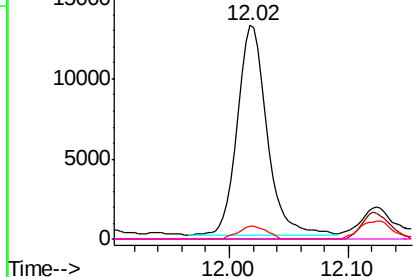
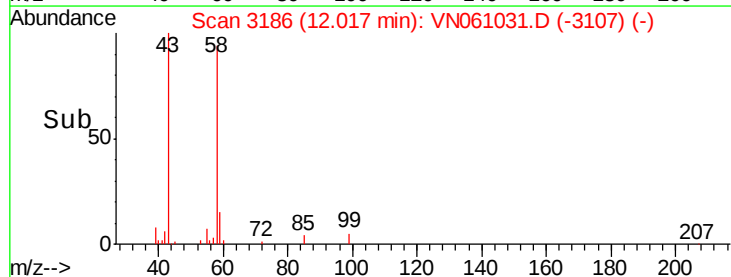
#74

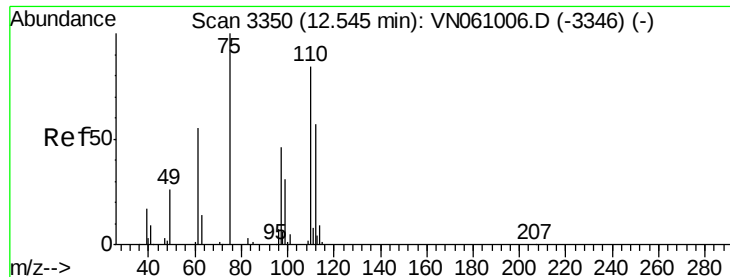
N-ethyl acetate
Concen: 5.153 ug/l
RT: 12.02 min Scan# 3186
Delta R.T. -0.04 min
Lab File: VN061031.D
Acq: 16 Apr 2020 22:44

Tgt Ion: 43 Resp: 22481
Ion Ratio Lower Upper
43 100
70 0.0 31.0 46.6#
55 5.9 18.6 27.8#
61 0.0 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): VNO
20000 Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 25.118 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

Instrument :

MSVOA_N

ClientSampleId :

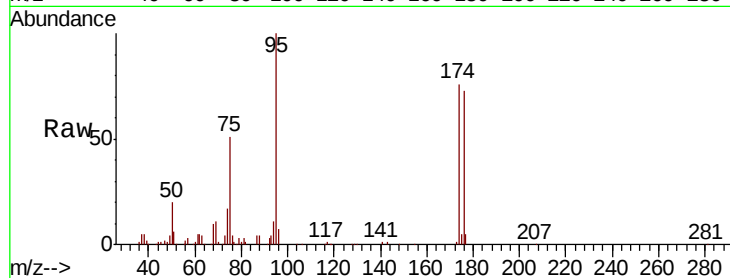
WC-F1-VOA

Tot Ion: 75 Resp: 64694

Ion Ratio Lower Upper

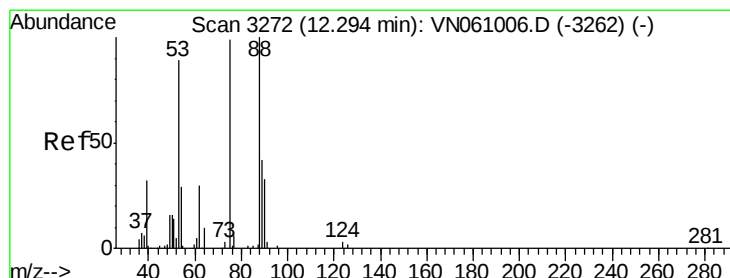
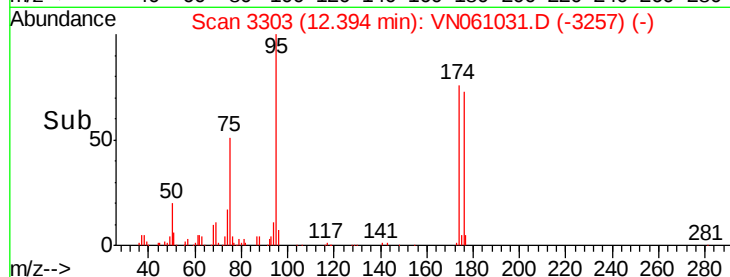
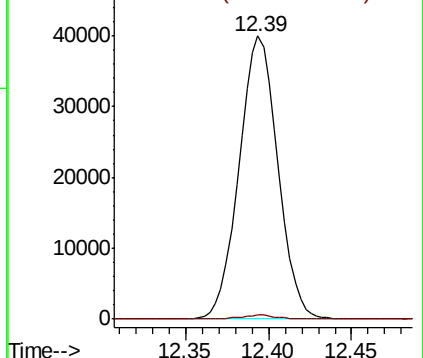
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 61.955 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061031.D

Acq: 16 Apr 2020 22:44

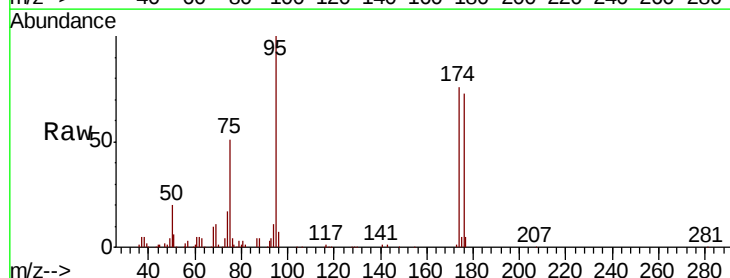
Tgt Ion: 75 Resp: 64694

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

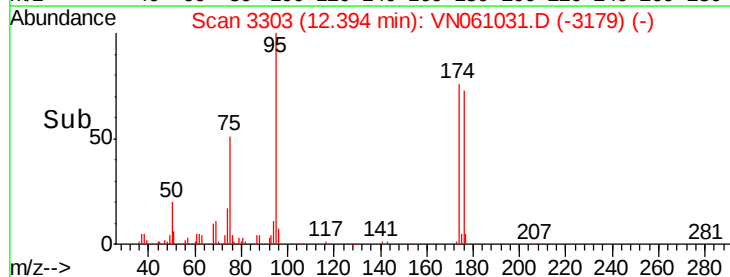
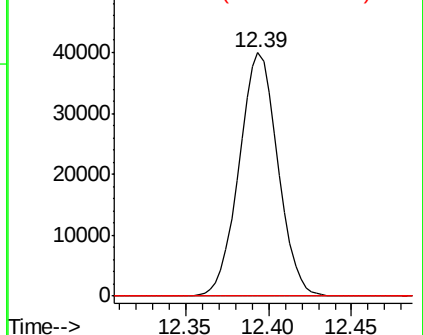
89 0.0 34.6 52.0#

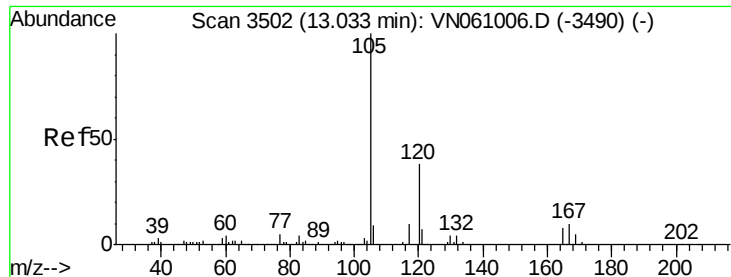


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

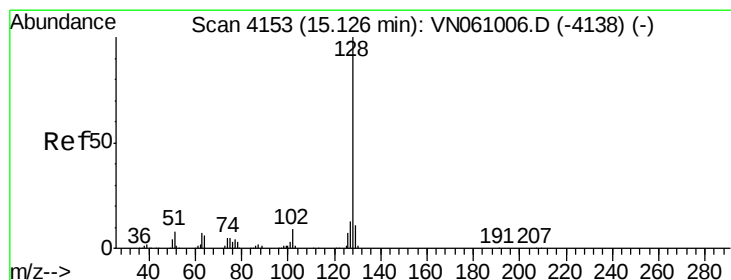
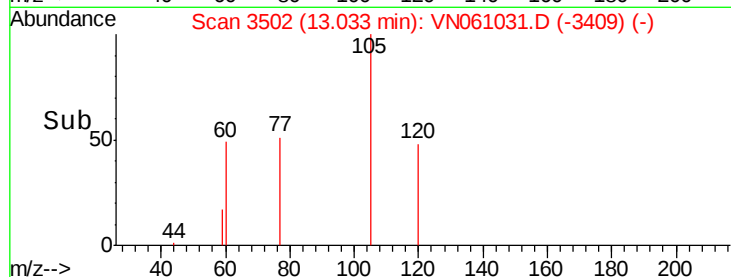
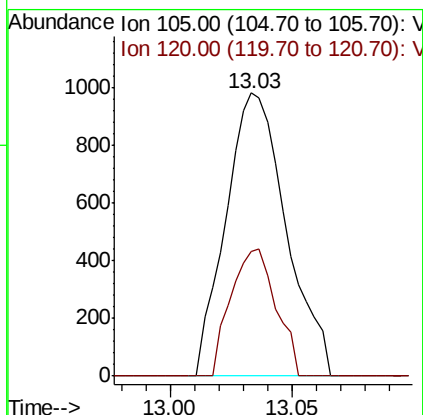
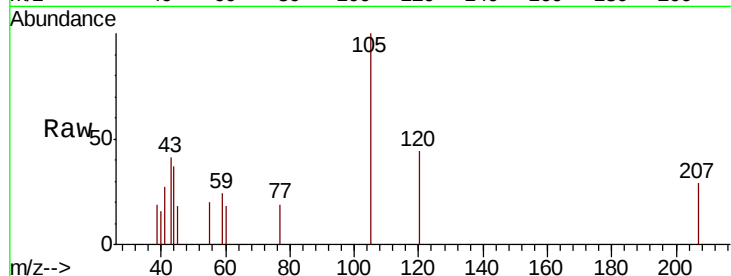




#84
 1,2,4-Trimethylbenzene
 Concen: 0.219 ug/l
 RT: 13.03 min Scan# 3502
 Delta R.T. 0.00 min
 Lab File: VN061031.D
 Acq: 16 Apr 2020 22:44

Instrument :
 MSVOA_N
 ClientSampled :
 WC-F1-VOA

Tot Ion:105 Resp: 1682
 Ion Ratio Lower Upper
 105 100
 120 33.6 22.1 66.5



#95
 Naphthalene
 Concen: 0.226 ug/l
 RT: 15.12 min Scan# 4152
 Delta R.T. -0.00 min
 Lab File: VN061031.D
 Acq: 16 Apr 2020 22:44

Tgt Ion:128 Resp: 1455
 Ion Ratio Lower Upper
 128 100
 127 2.1 10.2 15.4#
 129 0.0 8.6 13.0#

