

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061032.D
 Acq On : 16 Apr 2020 23:07
 Operator : JC/MD
 Sample : L2304-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-F2-VOA

Quant Time: Apr 17 04:03:20 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	154737	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	264322	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	245395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	113037	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	105320	53.20	ug/l	0.00
Spiked Amount			Recovery	=	106.40%	
35) Dibromofluoromethane	7.56	113	77988	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
50) Toluene-d8	10.08	98	329572	56.50	ug/l	0.00
Spiked Amount			Recovery	=	113.00%	
62) 4-Bromofluorobenzene	12.39	95	123063	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	

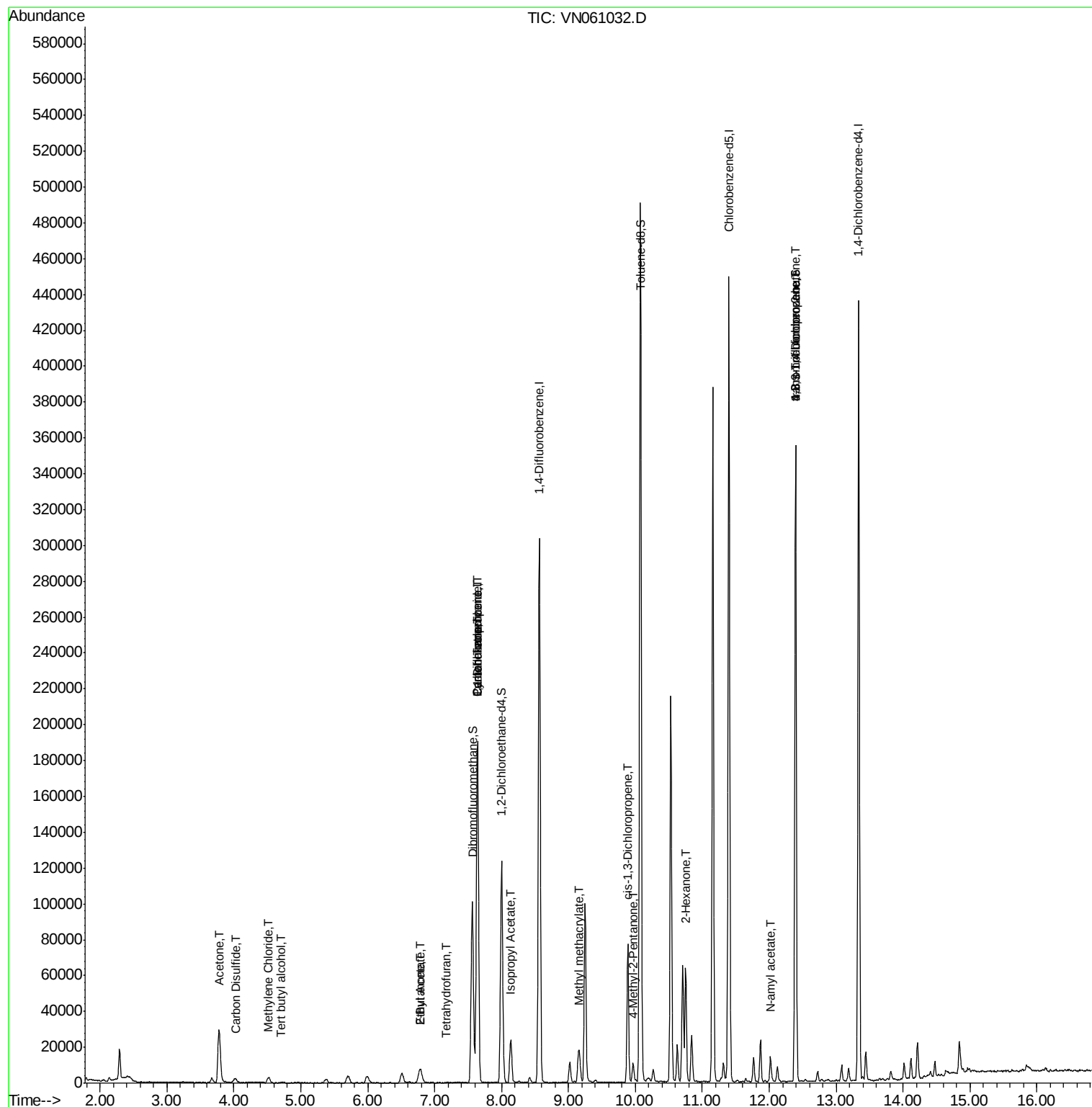
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	662	1.885	ug/l #	73
16) Acetone	3.78	43	52149	59.846	ug/l	99
17) Carbon Disulfide	4.03	76	1262	0.238	ug/l #	74
20) Methylene Chloride	4.51	84	1457	0.766	ug/l	88
25) 2-Butanone	6.80	43	8505	6.369	ug/l	93
29) Tetrahydrofuran	7.18	42	255	0.281	ug/l #	36
31) Cyclohexane	7.64	56	3182	0.863	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12426	4.556	ug/l #	50
37) Ethyl Acetate	6.80	43	8505	2.872	ug/l #	69
38) Carbon Tetrachloride	7.64	117	15006	6.610	ug/l #	14
43) Isopropyl Acetate	8.14	43	29582	6.141	ug/l #	91
48) Methyl methacrylate	9.15	41	6830	3.209	ug/l #	36
51) 4-Methyl-2-Pentanone	9.97	43	7121	2.565	ug/l	100
54) cis-1,3-Dichloropropene	9.89	75	13080	3.877	ug/l #	62
59) 2-Hexanone	10.75	43	10206	5.097	ug/l	83
74) N-amyl acetate	12.02	43	10558	2.507	ug/l #	48
76) 1,2,3-Trichloropropane	12.39	75	62688	25.213	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	62688	62.189	ug/l #	12

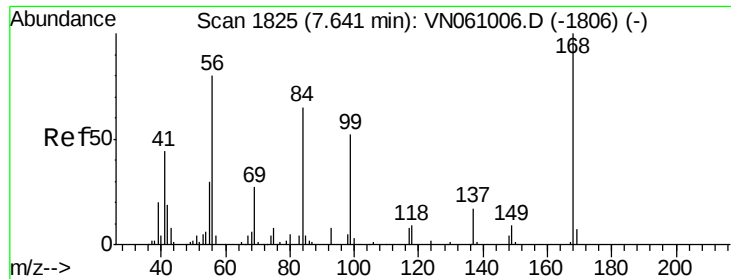
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 17 03:49:39 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

MSVOA_N

ClientSampleId :

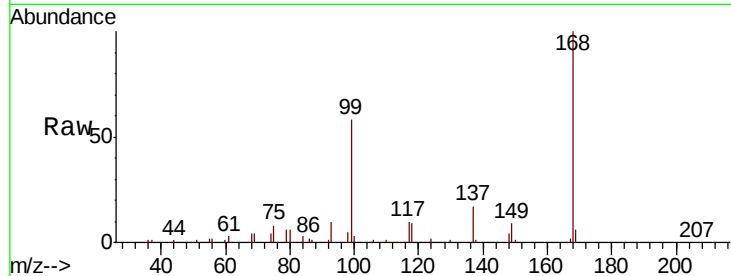
WC-F2-VOA

Tot Ion:168 Resp: 154737

Ion Ratio Lower Upper

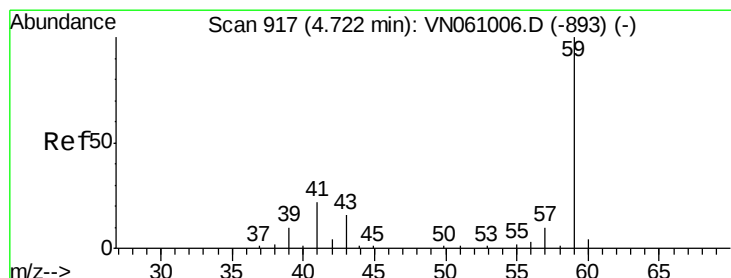
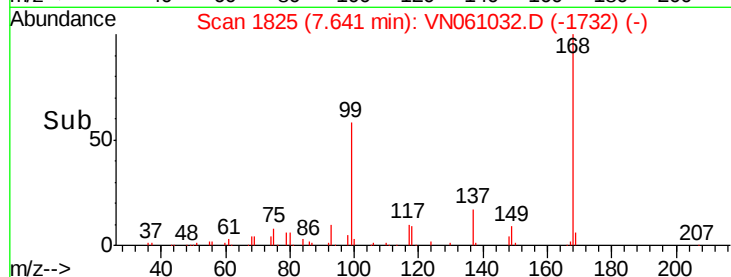
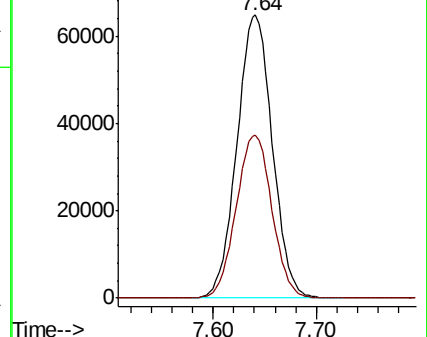
168 100

99 57.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN061006.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN061006.D (-1806) (-)



#11

Tert butyl alcohol

Concen: 1.885 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.01 min

Lab File: VN061032.D

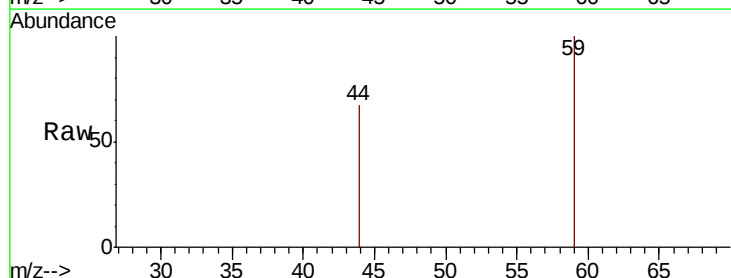
Acq: 16 Apr 2020 23:07

Tgt Ion: 59 Resp: 662

Ion Ratio Lower Upper

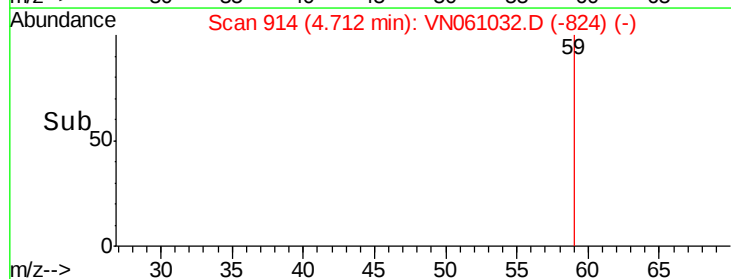
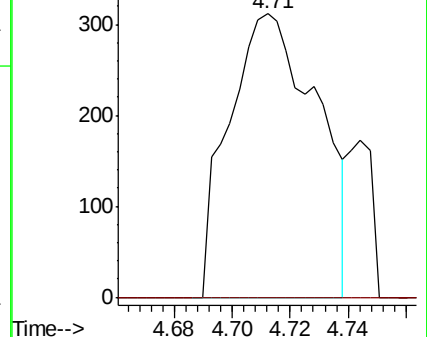
59 100

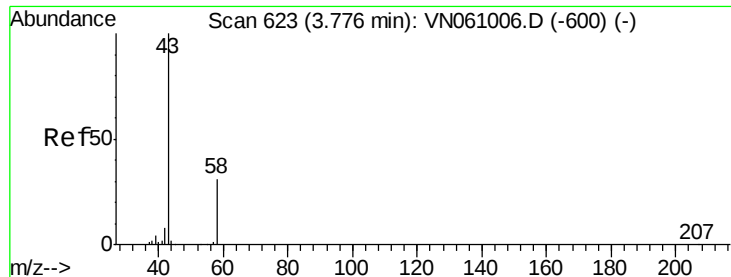
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN061006.D (-893) (-)

Ion 57.00 (56.70 to 57.70): VN061006.D (-893) (-)





#16

Acetone

Concen: 59.846 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

MSVOA_N

ClientSampleId :

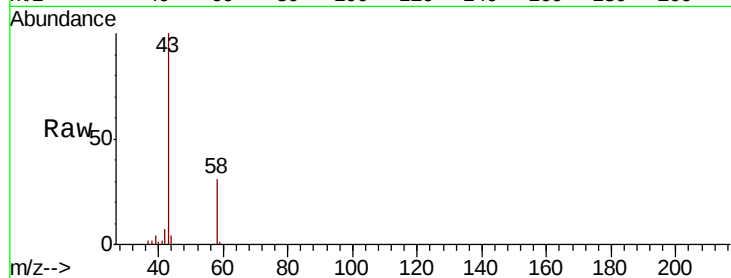
WC-F2-VOA

Tot Ion: 43 Resp: 52149

Ion Ratio Lower Upper

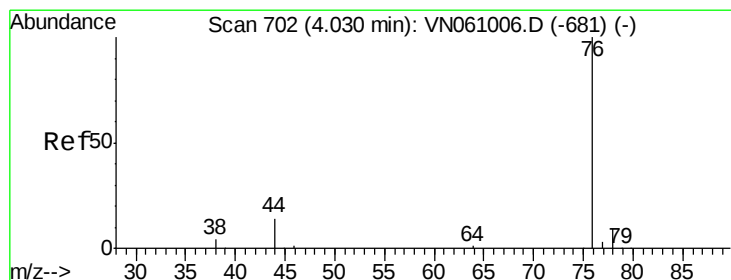
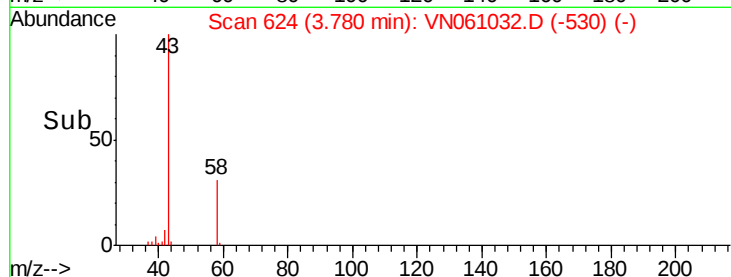
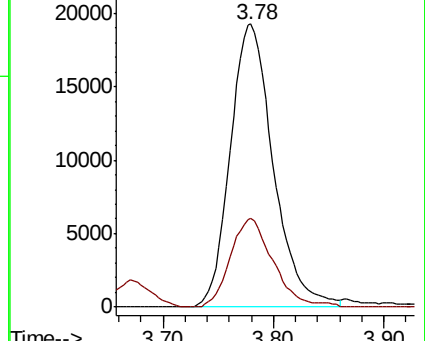
43 100

58 31.4 24.6 37.0



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

Ion 58.00 (57.70 to 58.70): VN061006.D (-600) (-)



#17

Carbon Disulfide

Concen: 0.238 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN061032.D

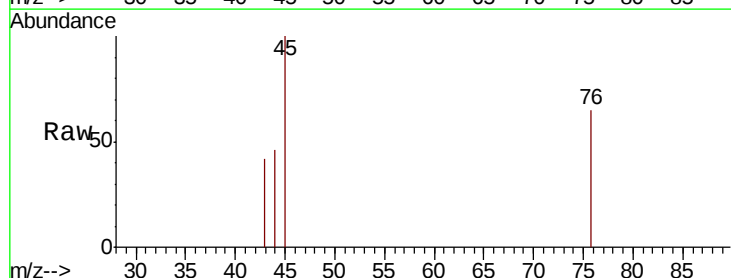
Acq: 16 Apr 2020 23:07

Tgt Ion: 76 Resp: 1262

Ion Ratio Lower Upper

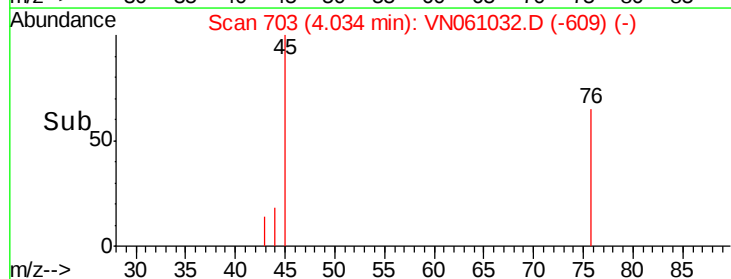
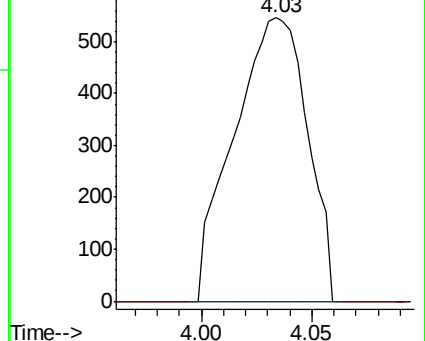
76 100

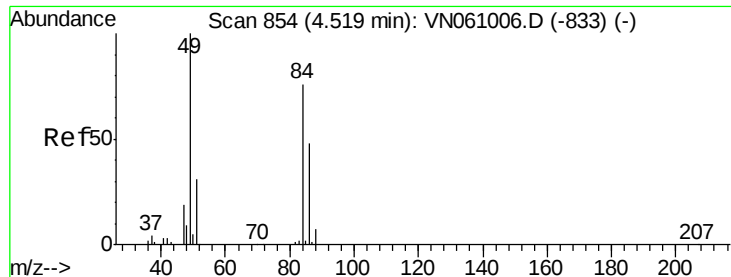
78 0.0 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN061006.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN061006.D (-681) (-)

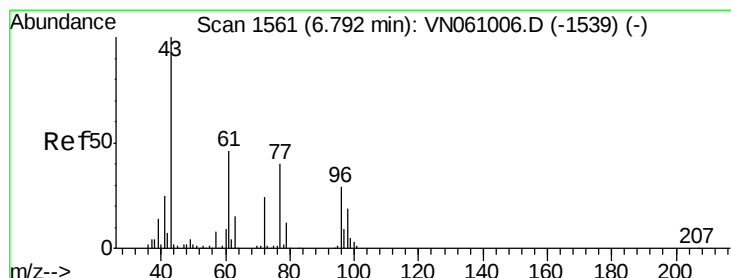
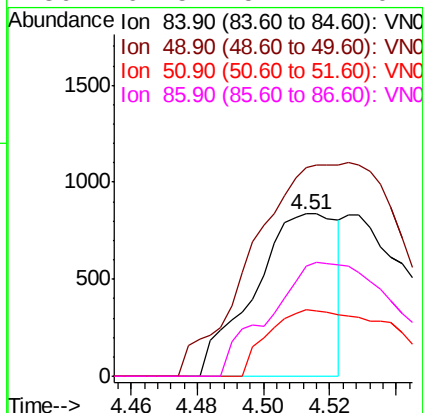
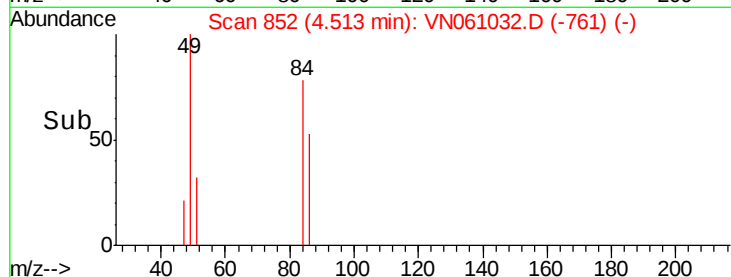
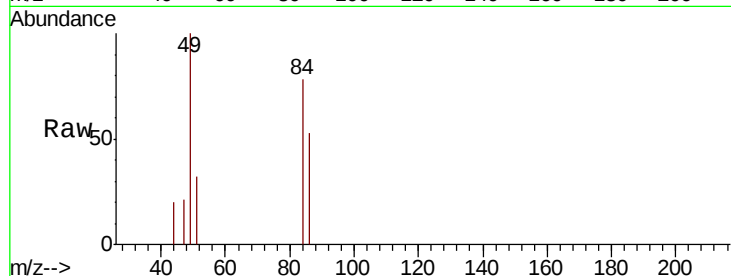




#20
Methylene Chloride
Concen: 0.766 ug/l
RT: 4.51 min Scan# 852
Delta R.T. -0.01 min
Lab File: VN061032.D
Acq: 16 Apr 2020 23:07

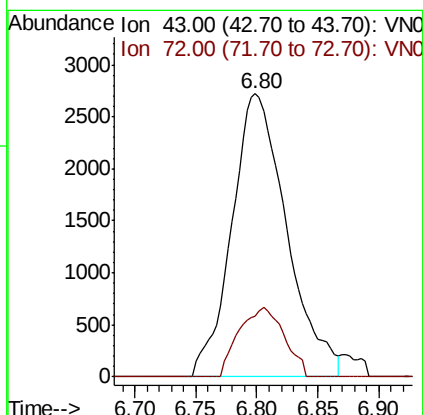
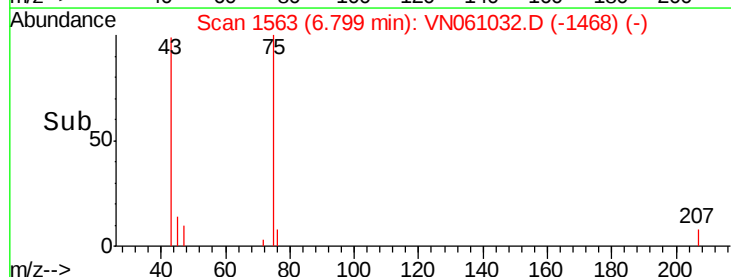
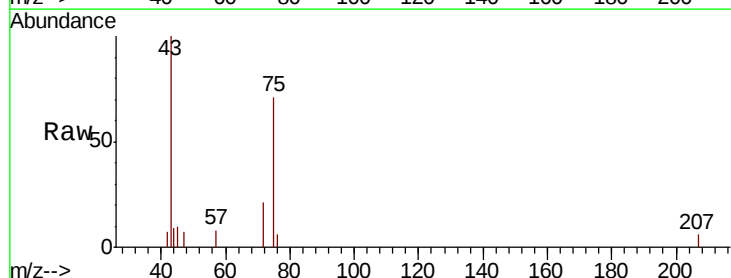
Instrument :
MSVOA_N
ClientSampleId :
WC-F2-VOA

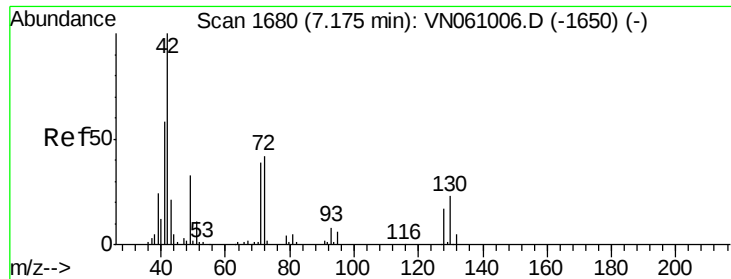
Tot Ion:	84	Resp:	1457
Ion	Ratio	Lower	Upper
84	100		
49	109.5	105.8	158.6
51	40.8	32.4	48.6
86	67.5	51.1	76.7



#25
2-Butanone
Concen: 6.369 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN061032.D
Acq: 16 Apr 2020 23:07

Tgt Ion:	43	Resp:	8505
Ion	Ratio	Lower	Upper
43	100		
72	21.2	19.6	29.4





#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.01 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

MSVOA_N

ClientSampleId :

WC-F2-VOA

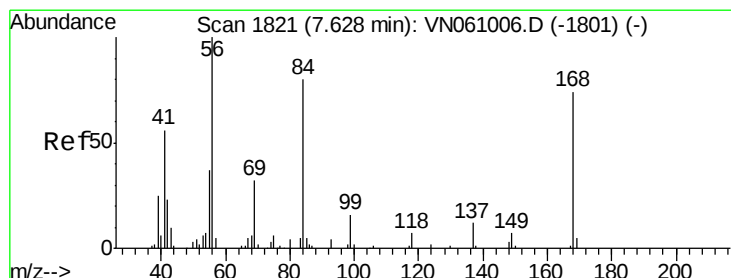
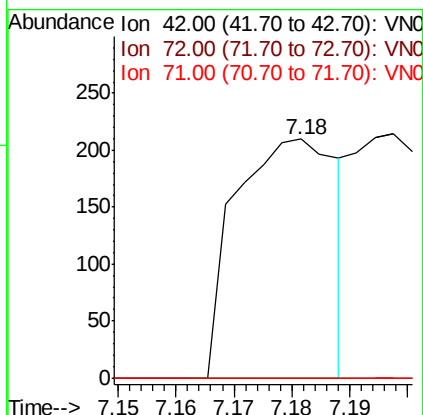
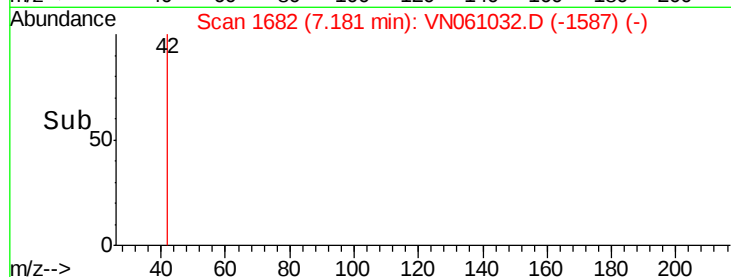
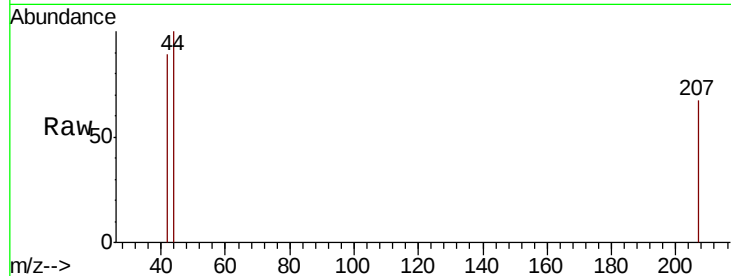
Tot Ion: 42 Resp: 255

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

71 0.0 30.5 45.7#



#31

Cyclohexane

Concen: 0.863 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

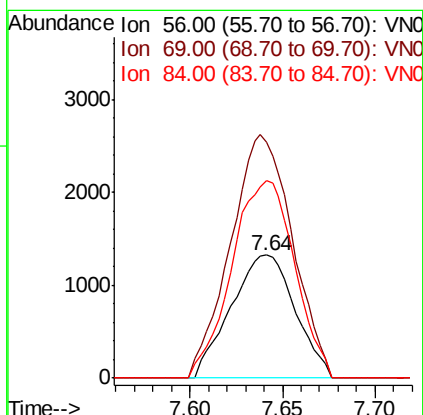
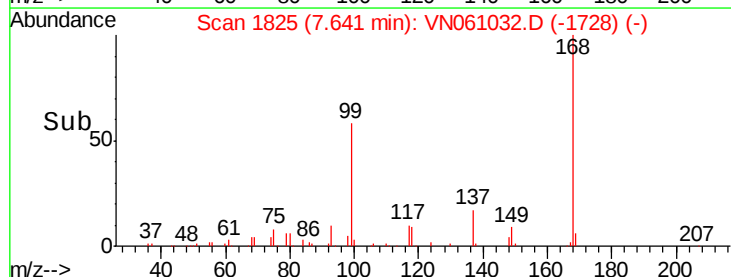
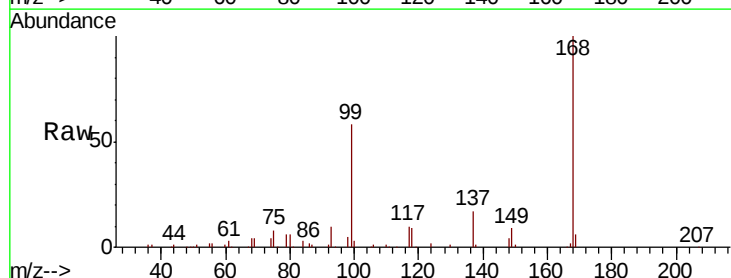
Tgt Ion: 56 Resp: 3182

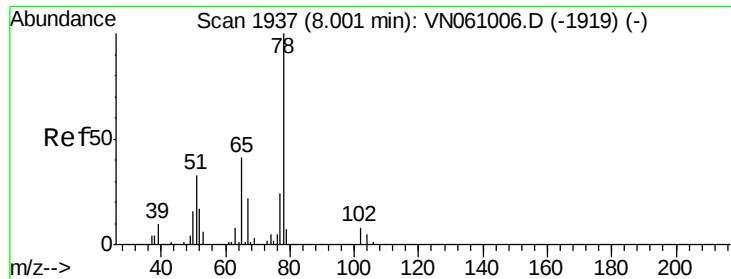
Ion Ratio Lower Upper

56 100

69 192.7 25.6 38.4#

84 160.9 63.4 95.2#





#33

1,2-Dichloroethane-d4

Concen: 53.198 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

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ClientSampleId :

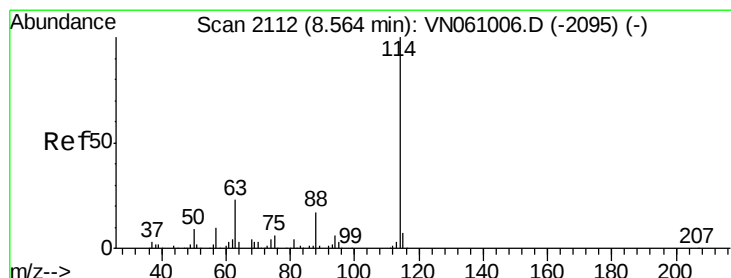
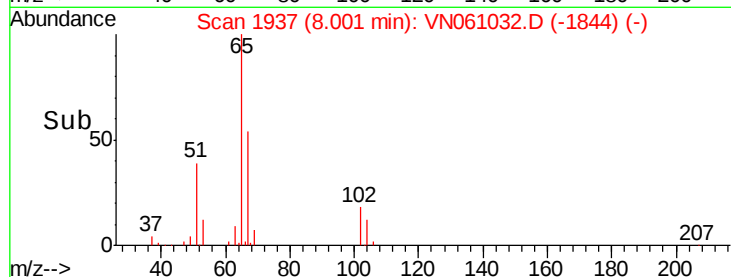
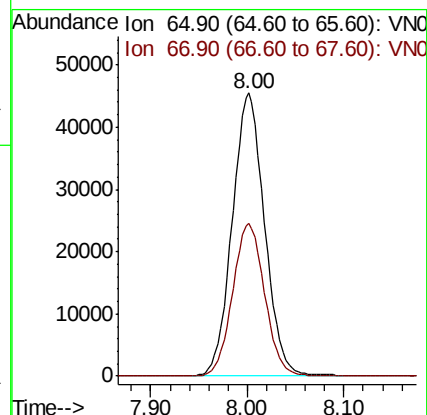
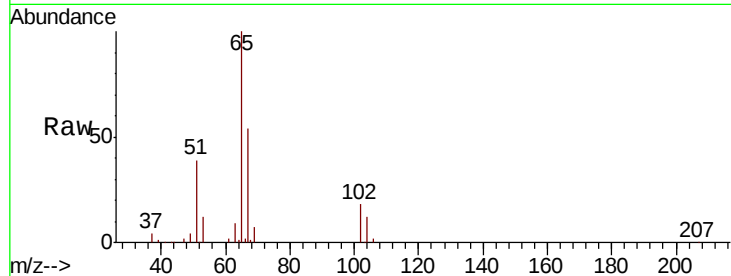
WC-F2-VOA

Tot Ion: 65 Resp: 105320

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

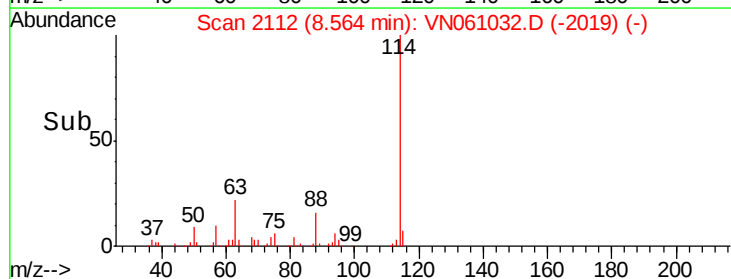
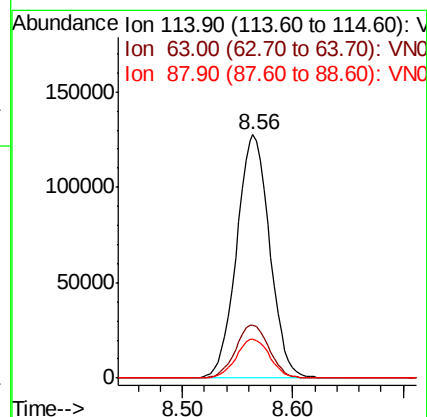
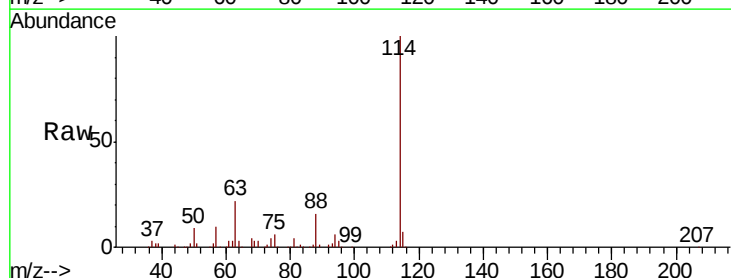
Tgt Ion: 114 Resp: 264322

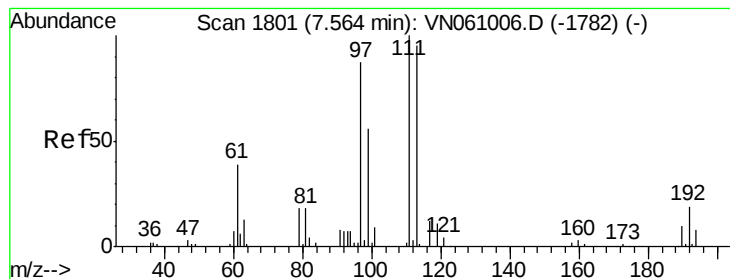
Ion Ratio Lower Upper

114 100

63 22.0 0.0 46.2

88 16.2 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.523 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

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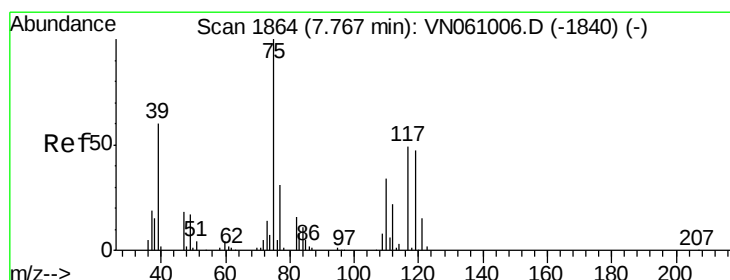
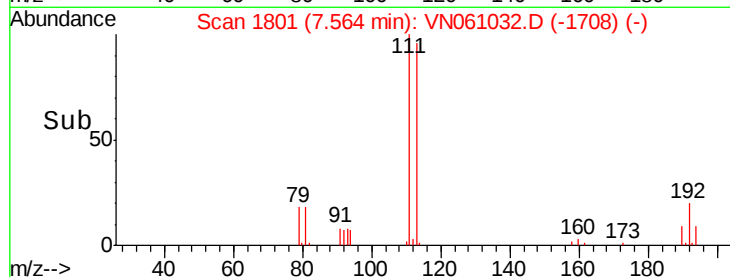
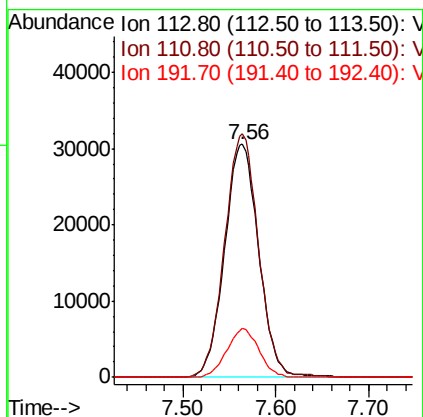
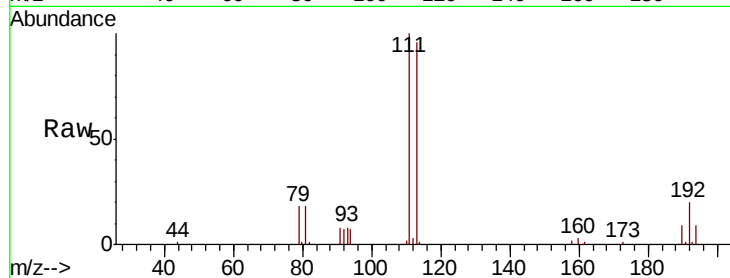
Tot Ion:113 Resp: 77988

Ion Ratio Lower Upper

113 100

111 103.7 83.4 125.2

192 19.7 15.5 23.3



#36

1,1-Dichloropropene

Concen: 4.556 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

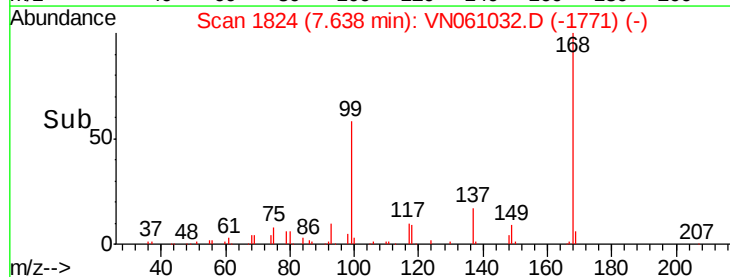
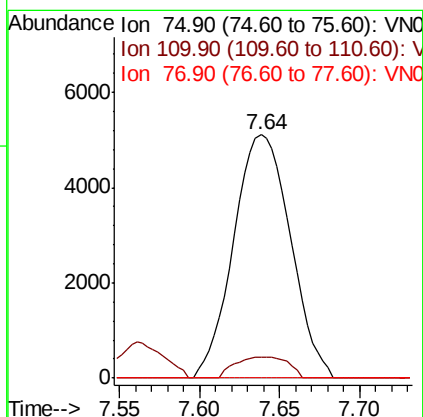
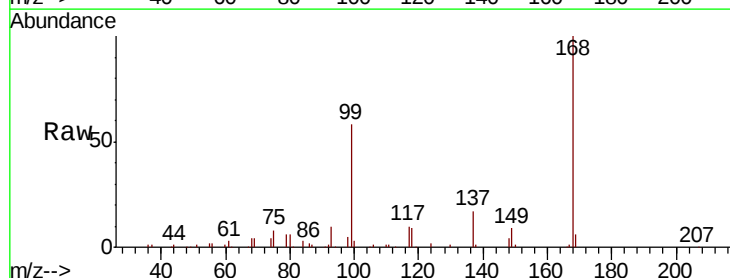
Tgt Ion: 75 Resp: 12426

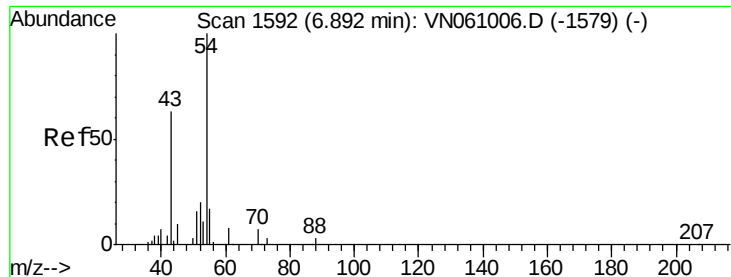
Ion Ratio Lower Upper

75 100

110 8.0 16.8 50.3#

77 0.0 24.7 37.1#

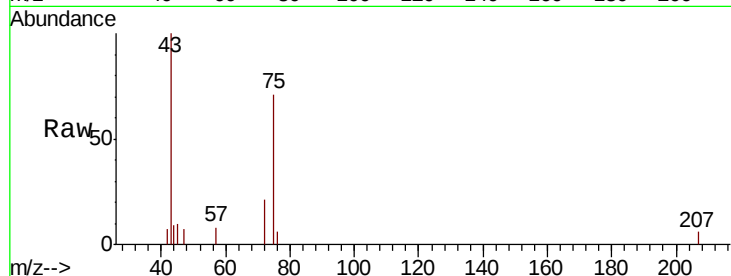




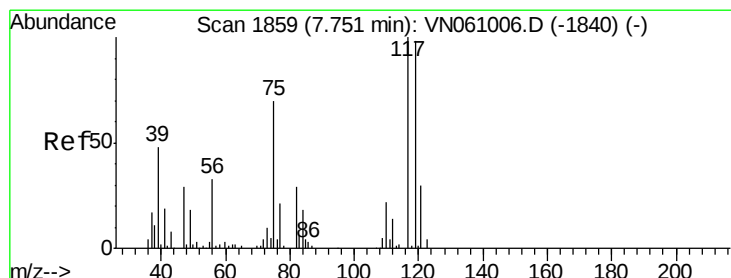
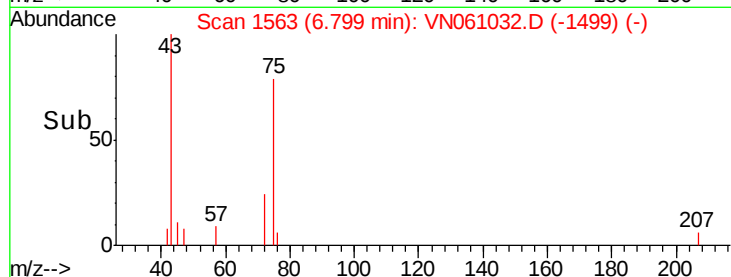
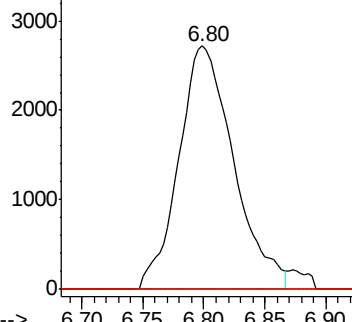
#37
Ethyl Acetate
Concen: 2.872 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.09 min
Lab File: VN061032.D
Acq: 16 Apr 2020 23:07

Instrument :
MSVOA_N
ClientSampleId :
WC-F2-VOA

Tot Ion: 43 Resp: 8505
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#

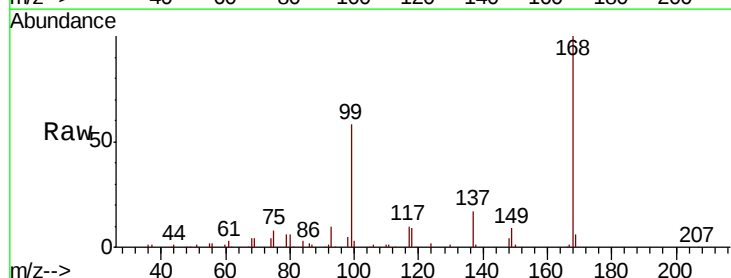


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

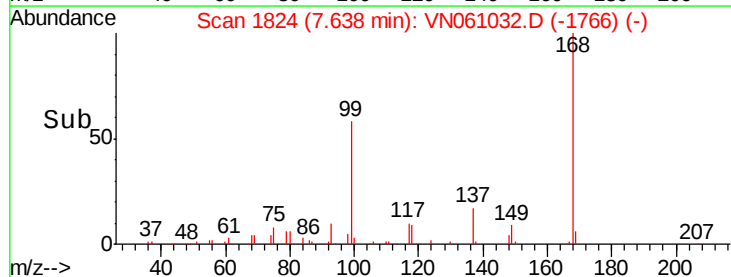
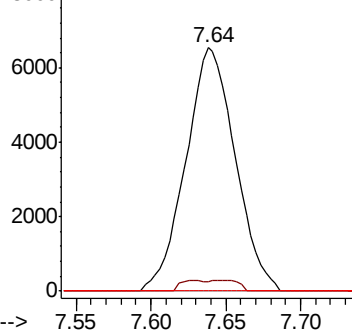


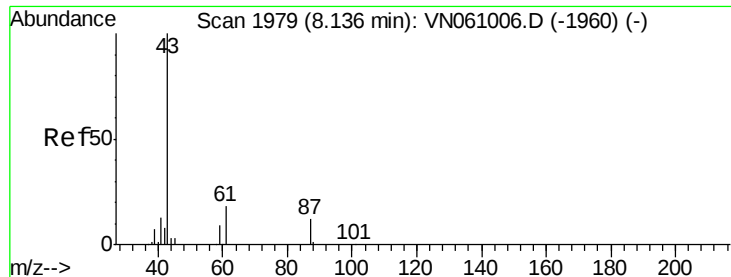
#38
Carbon Tetrachloride
Concen: 6.610 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN061032.D
Acq: 16 Apr 2020 23:07

Tgt Ion: 117 Resp: 15006
Ion Ratio Lower Upper
117 100
119 3.9 78.1 117.1#
121 0.0 24.0 36.0#



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: 6.141 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

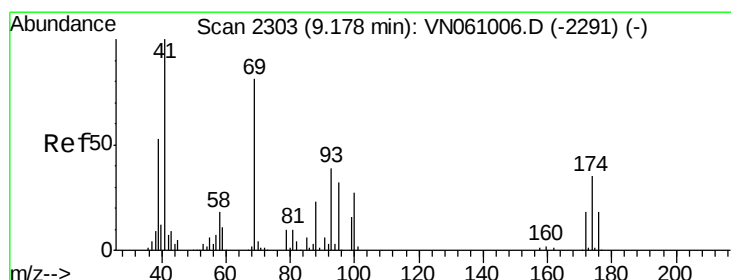
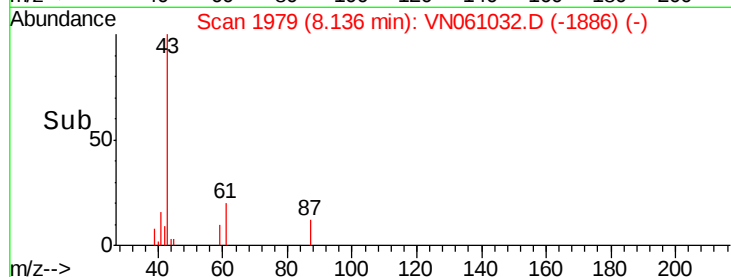
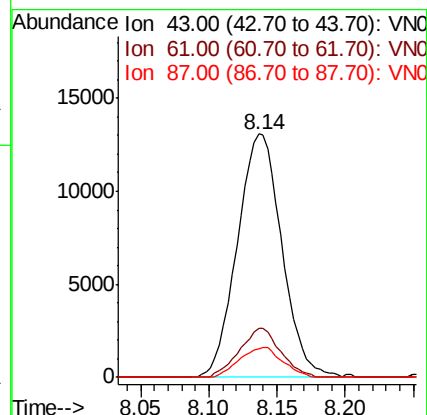
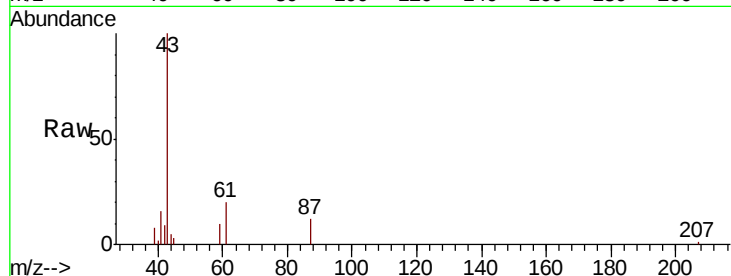
MSVOA_N

ClientSampleId :

WC-F2-VOA

Tot Ion: 43 Resp: 29582

Ion	Ratio	Lower	Upper
43	100		
61	18.6	20.3	30.5#
87	11.9	9.4	14.2



#48

Methyl methacrylate

Concen: 3.209 ug/l

RT: 9.15 min Scan# 2295

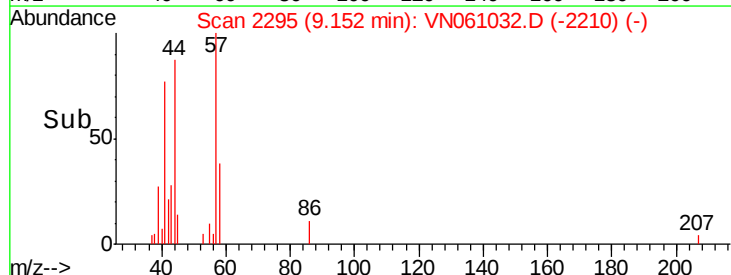
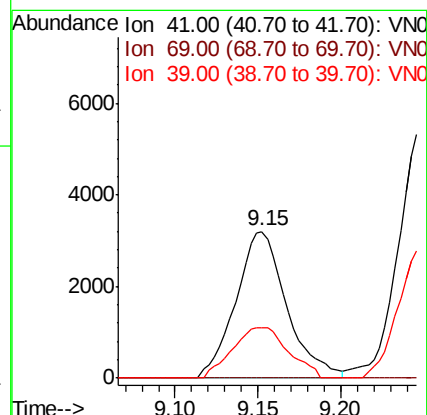
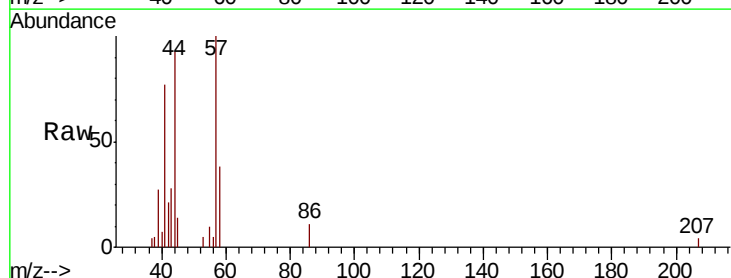
Delta R.T. -0.03 min

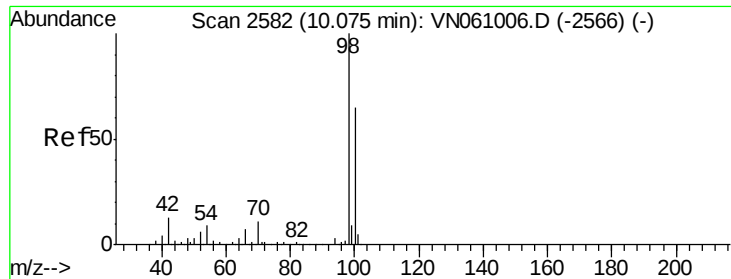
Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Tgt Ion: 41 Resp: 6830

Ion	Ratio	Lower	Upper
41	100		
69	0.0	65.3	97.9#
39	37.9	45.2	67.8#

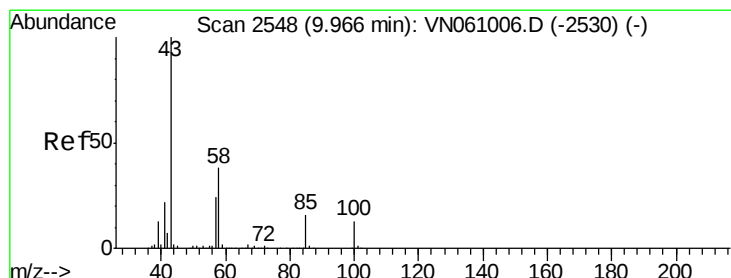
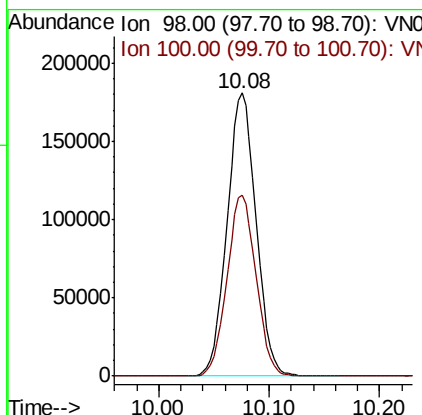
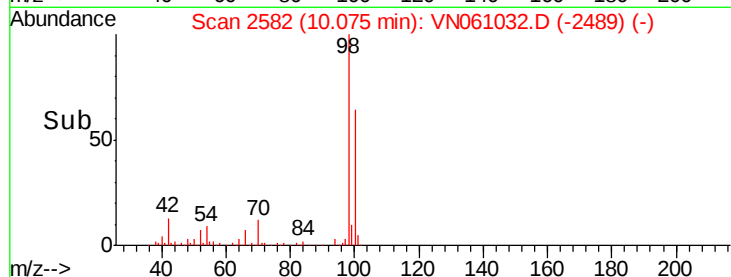
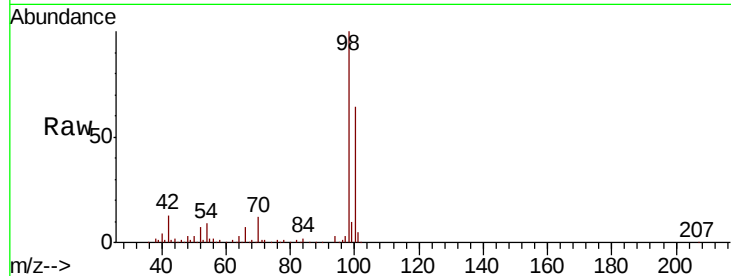




#50
Toluene-d8
Concen: 56.501 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061032.D
Acq: 16 Apr 2020 23:07

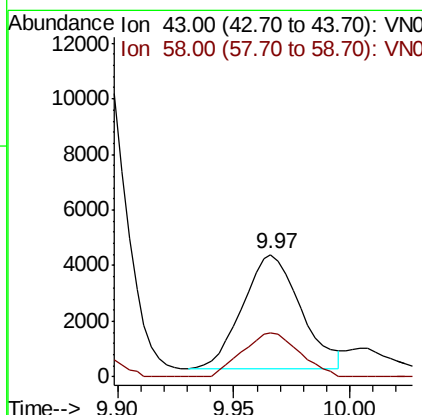
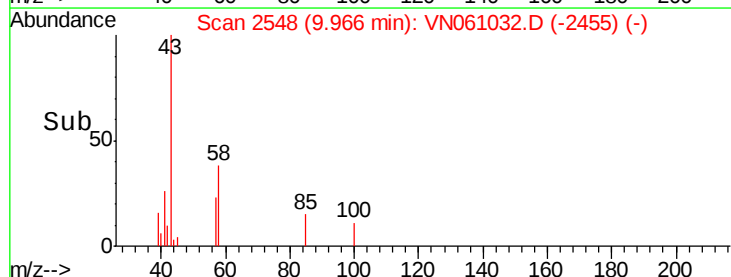
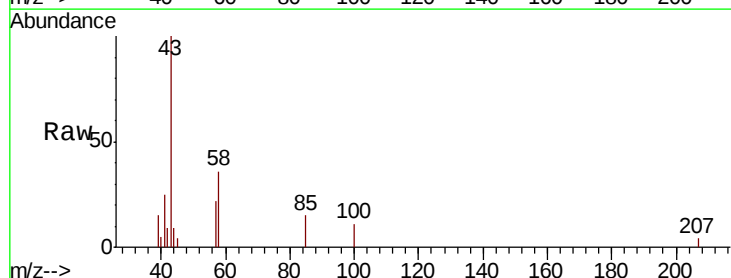
Instrument :
MSVOA_N
ClientSampled :
WC-F2-VOA

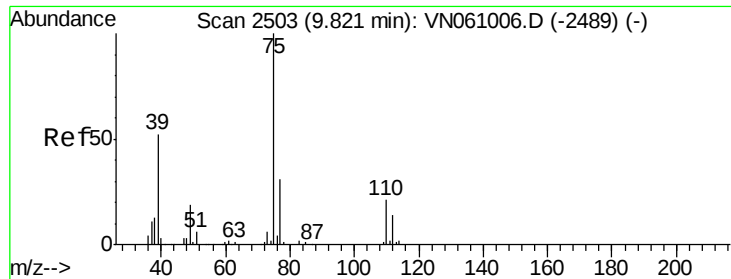
Tot Ion: 98 Resp: 329572
Ion Ratio Lower Upper
98 100
100 64.0 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 2.565 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. 0.00 min
Lab File: VN061032.D
Acq: 16 Apr 2020 23:07

Tgt Ion: 43 Resp: 7121
Ion Ratio Lower Upper
43 100
58 38.2 30.3 45.5





#54

cis-1,3-Dichloropropene

Concen: 3.877 ug/l

RT: 9.89 min Scan# 2523

Delta R.T. 0.06 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

MSVOA_N

ClientSampleId :

WC-F2-VOA

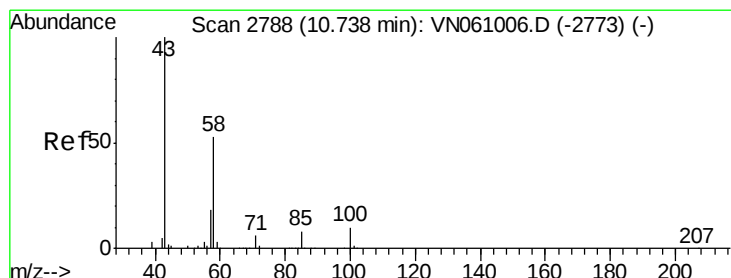
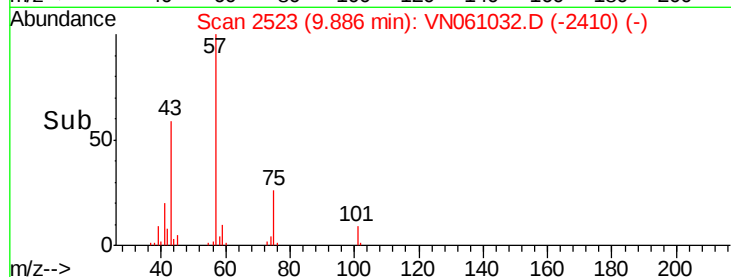
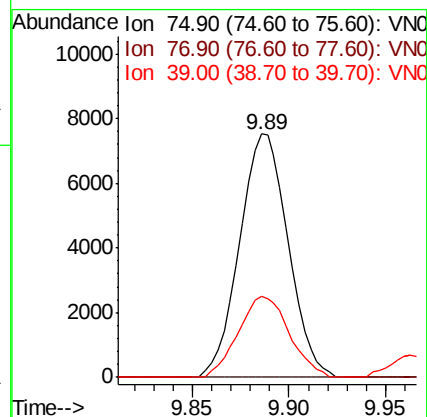
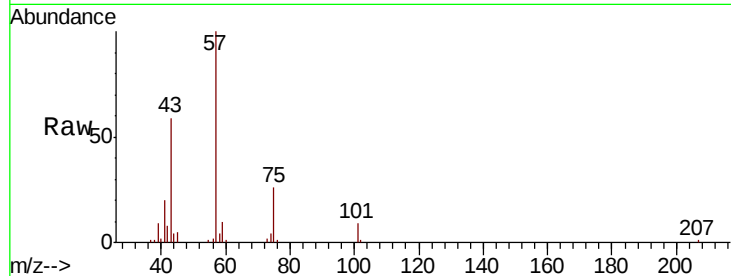
Tot Ion: 75 Resp: 13080

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 33.1 41.4 62.2#



#59

2-Hexanone

Concen: 5.097 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. 0.01 min

Lab File: VN061032.D

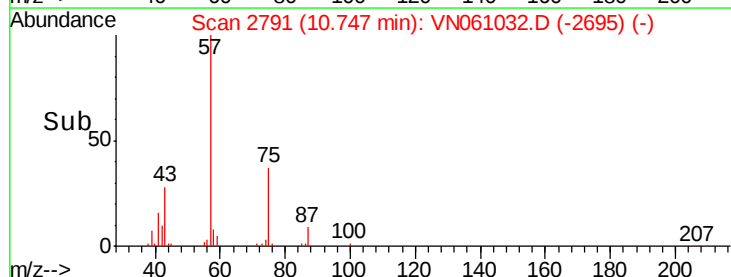
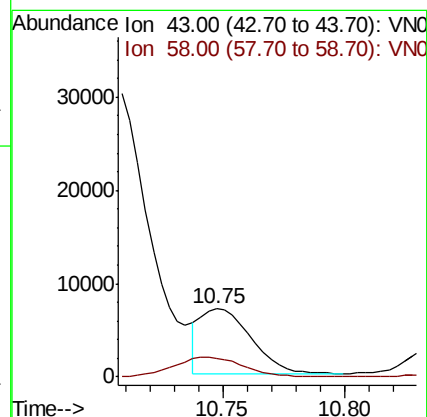
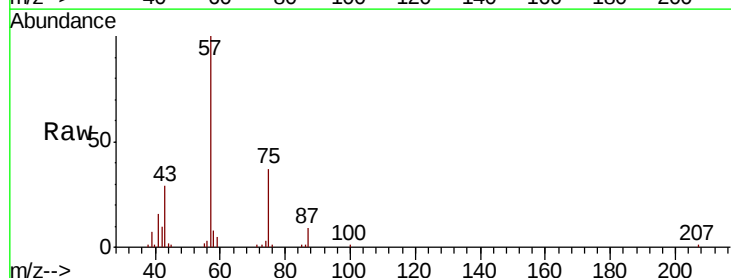
Acq: 16 Apr 2020 23:07

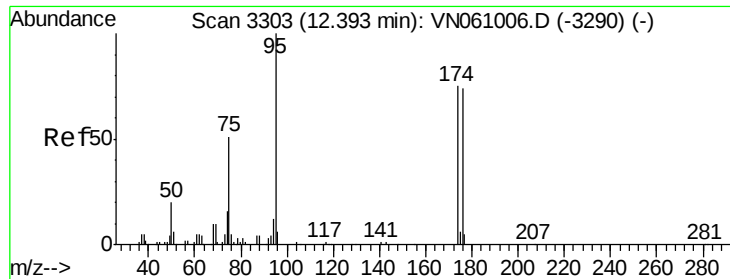
Tgt Ion: 43 Resp: 10206

Ion Ratio Lower Upper

43 100

58 41.0 26.4 79.0





#62

4-Bromofluorobenzene

Concen: 53.831 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

MSVOA_N

ClientSampleId :

WC-F2-VOA

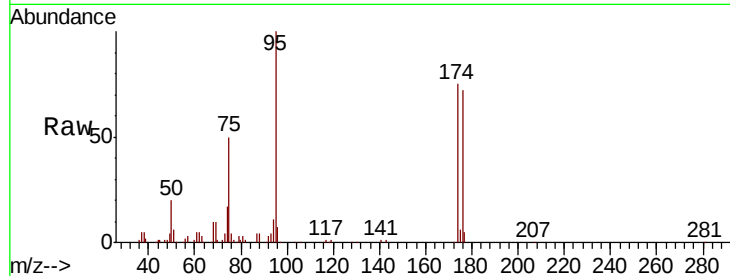
Tot Ion: 95 Resp: 123063

Ion Ratio Lower Upper

95 100

174 75.5 0.0 151.2

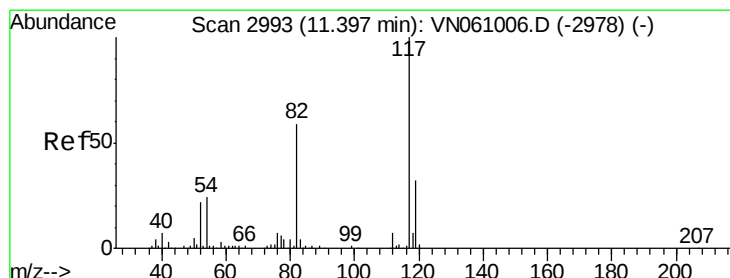
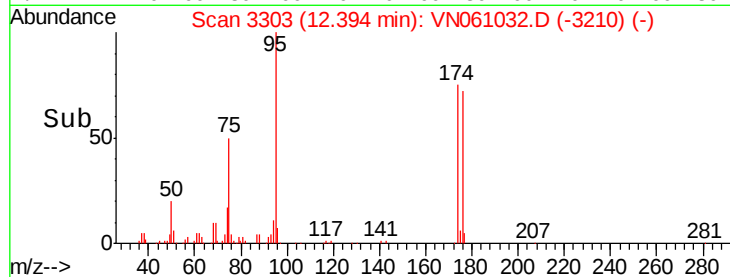
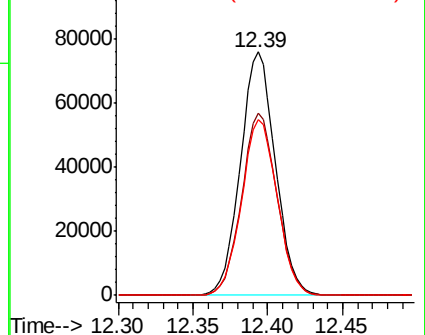
176 73.6 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VN061006.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN061006.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN061006.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

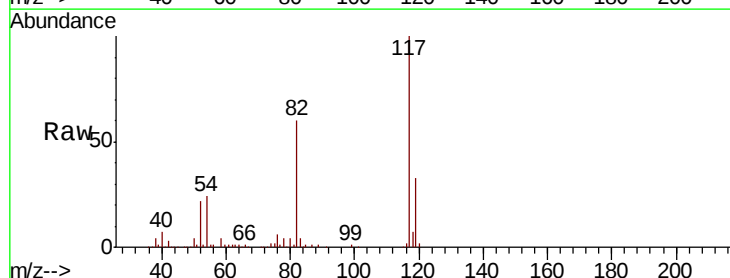
Tgt Ion: 117 Resp: 245395

Ion Ratio Lower Upper

117 100

82 59.9 47.1 70.7

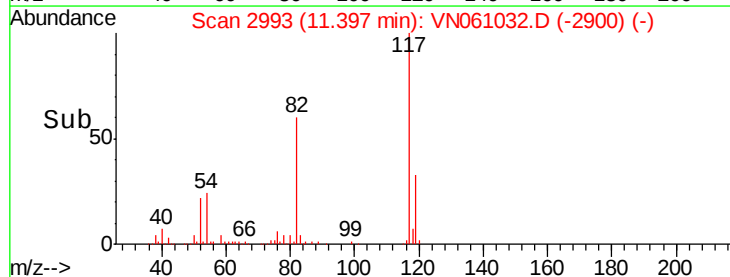
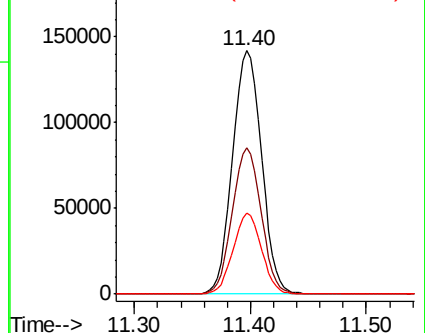
119 33.1 25.7 38.5

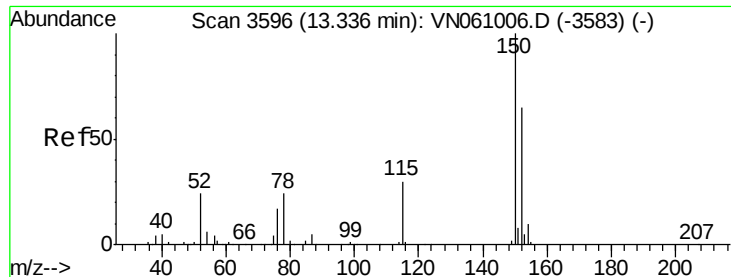


Abundance Ion 116.90 (116.60 to 117.60): VN061006.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN061006.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN061006.D (-2978) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

MSVOA_N

ClientSampleId :

WC-F2-VOA

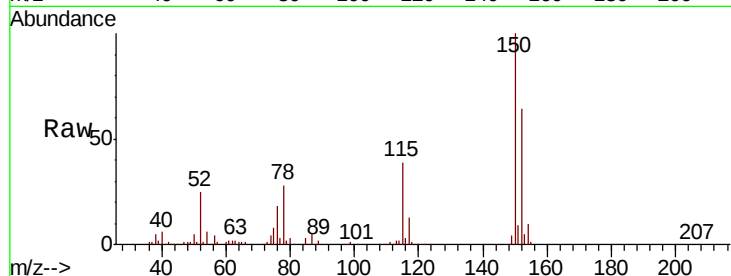
Tot Ion:152 Resp: 113037

Ion Ratio Lower Upper

152 100

115 60.4 30.8 92.4

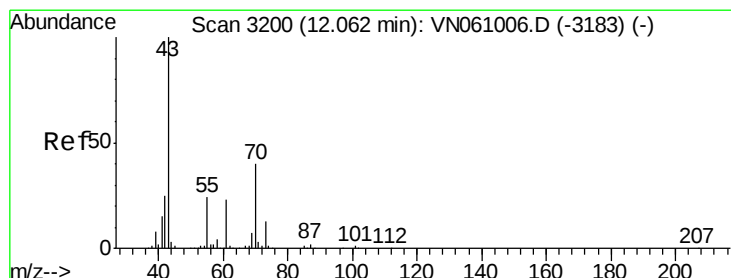
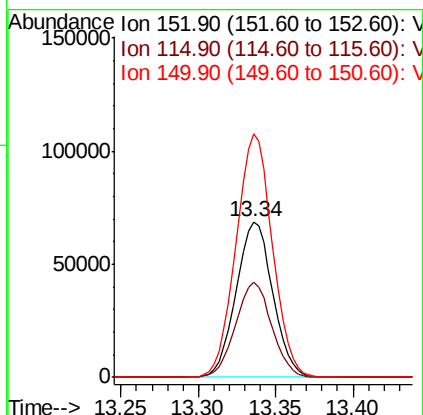
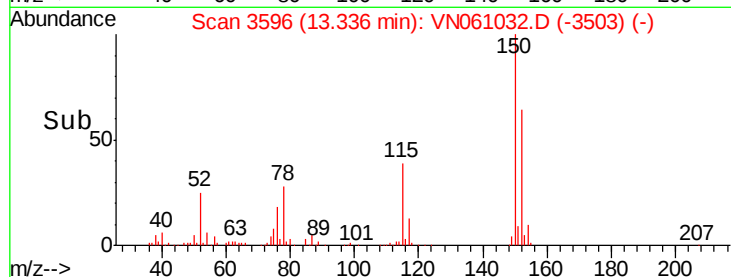
150 155.4 0.0 349.0



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



#74

N-ethyl acetate

Concen: 2.507 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Tgt Ion: 43 Resp: 10558

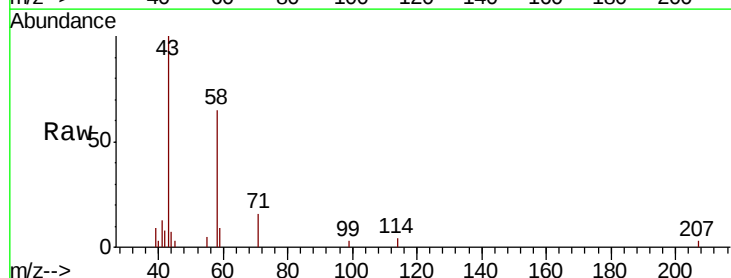
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 5.1 18.6 27.8#

61 0.0 18.2 27.4#

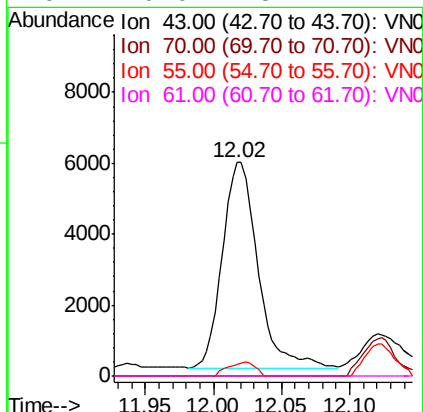
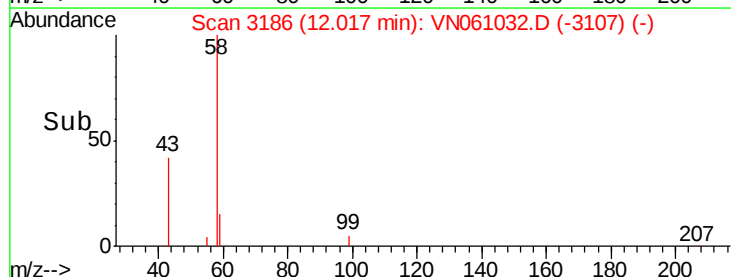


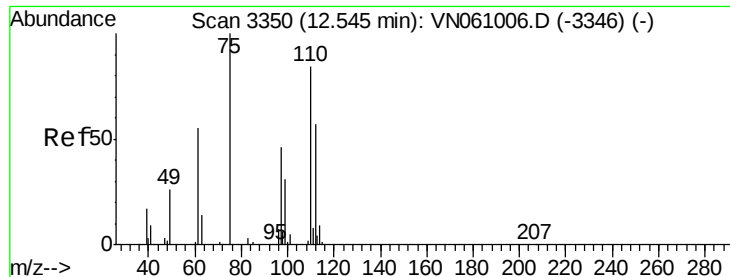
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.213 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

Instrument :

MSVOA_N

ClientSampleId :

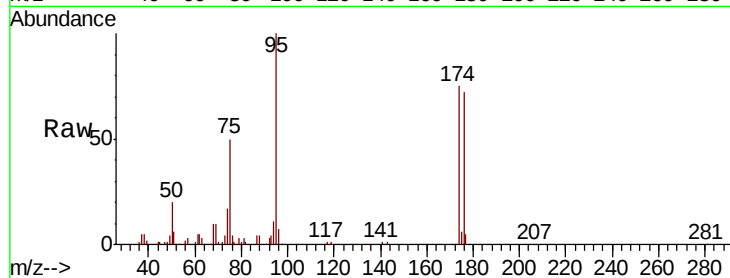
WC-F2-VOA

Tot Ion: 75 Resp: 62688

Ion Ratio Lower Upper

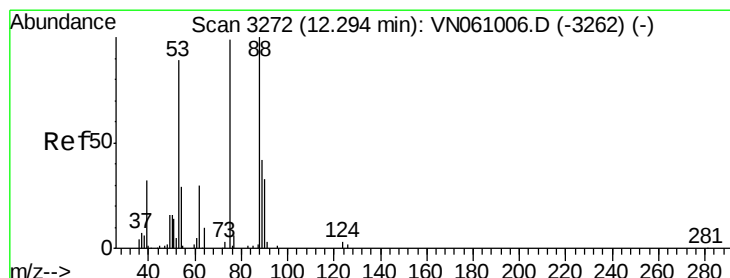
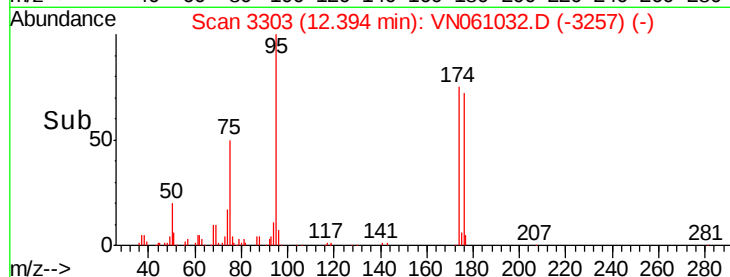
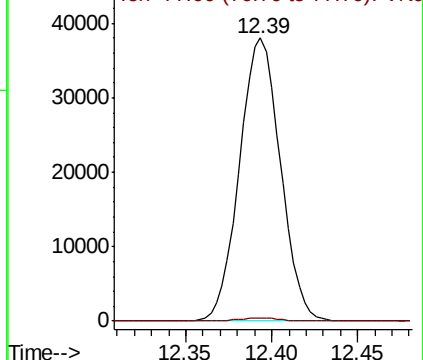
75 100

77 1.1 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: 62.189 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061032.D

Acq: 16 Apr 2020 23:07

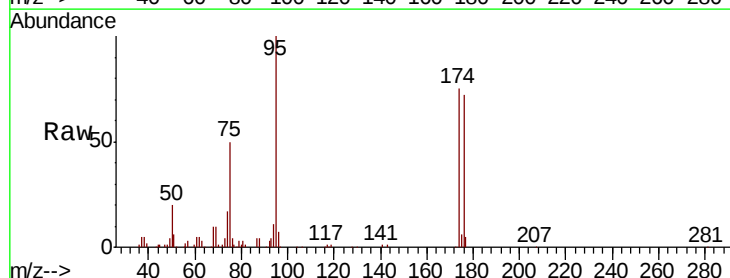
Tgt Ion: 75 Resp: 62688

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

