

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033119\
 Data File : VN054861.D
 Acq On : 31 Mar 2019 19:57
 Operator : JC/SP
 Sample : K2180-32
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 02:49:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	524564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	880891	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	750701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	272582	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	352207	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
35) Dibromofluoromethane	7.59	113	271919	46.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.60%	
50) Toluene-d8	10.09	98	1046972	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	
62) 4-Bromofluorobenzene	12.40	95	331967	45.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.44%	

Target Compounds

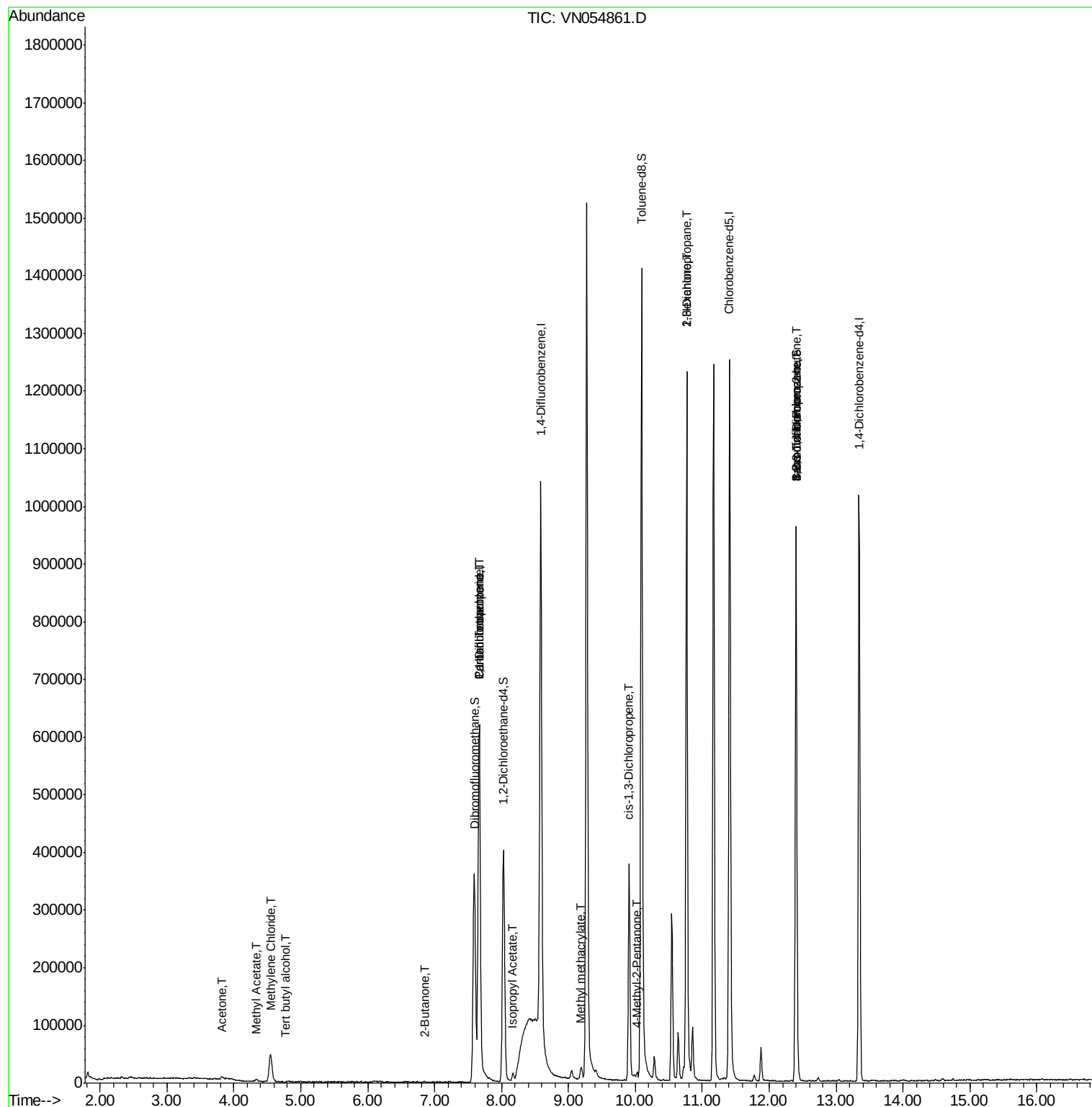
				Qvalue	
5) Bromomethane	2.58	94	102	Below Cal	# 76
11) Tert butyl alcohol	4.77	59	97	0.263 ug/l	# 70
16) Acetone	3.82	43	5071	3.007 ug/l	# 89
18) Methyl Acetate	4.34	43	6806	0.642 ug/l	# 87
20) Methylene Chloride	4.55	84	31727	5.334 ug/l	# 85
25) 2-Butanone	6.84	43	649	0.260 ug/l	# 46
31) Cyclohexane	7.67	56	11090	Below Cal	# 14
36) 1,1-Dichloropropene	7.66	75	40350	4.916 ug/l	# 48
38) Carbon Tetrachloride	7.67	117	48034	6.025 ug/l	# 17
43) Isopropyl Acetate	8.17	43	17578	1.797 ug/l	# 93
48) Methyl methacrylate	9.18	41	8232	1.553 ug/l	# 11
51) 4-Methyl-2-Pentanone	10.03	43	9718	1.767 ug/l	# 36
54) cis-1,3-Dichloropropene	9.90	75	63313	7.196 ug/l	# 72
57) 1,3-Dichloropropane	10.76	76	11759	1.316 ug/l	# 43
59) 2-Hexanone	10.77	43	203539	57.821 ug/l	# 47
71) Bromoform	12.40	173	2873	0.891 ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	193	Below Cal	# 1
76) 1,2,3-Trichloropropane	12.40	75	170327	35.969 ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	170327	139.910 ug/l	# 11
83) tert-Butylbenzene	13.23	119	30	Below Cal	# 28

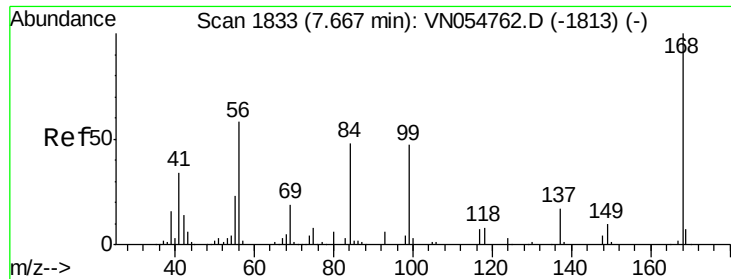
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

Instrument :

MSVOA_N

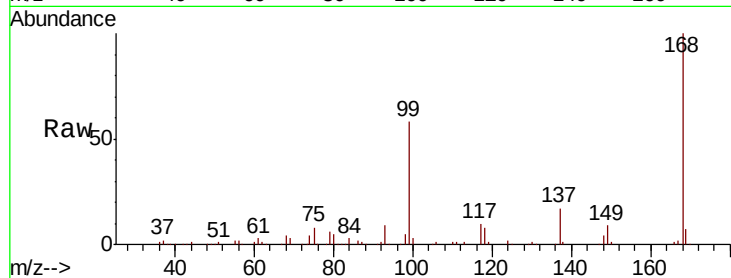
ClientSampleId :

Tot Ion:168 Resp: 524564

Ion Ratio Lower Upper

168 100

99 58.0 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

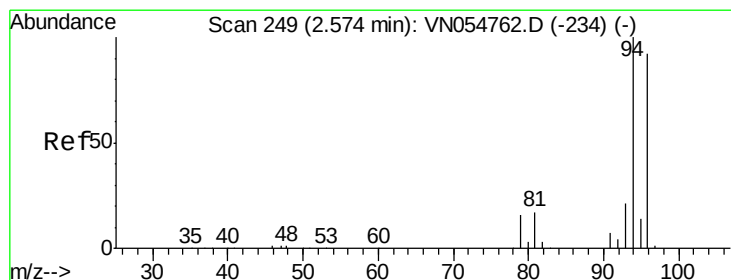
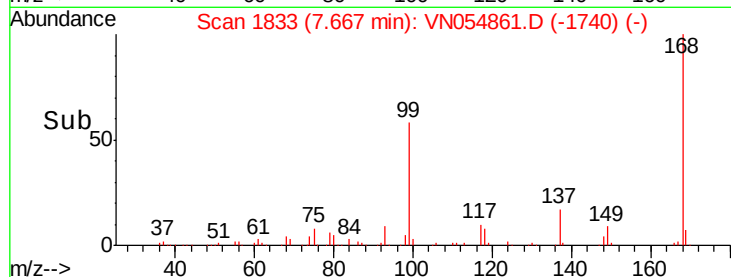
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054861.D

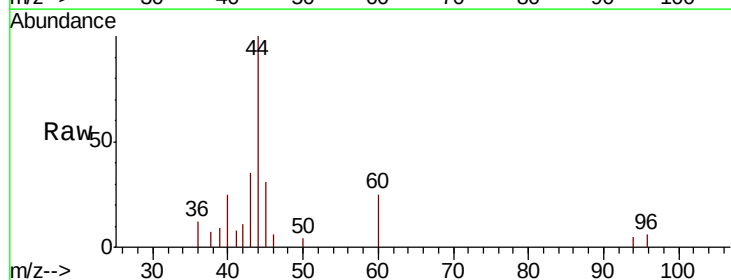
Acq: 31 Mar 2019 19:57

Tgt Ion: 94 Resp: 102

Ion Ratio Lower Upper

94 100

96 119.4 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

250

200

150

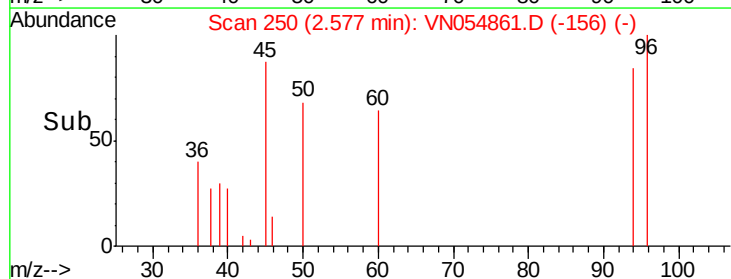
100

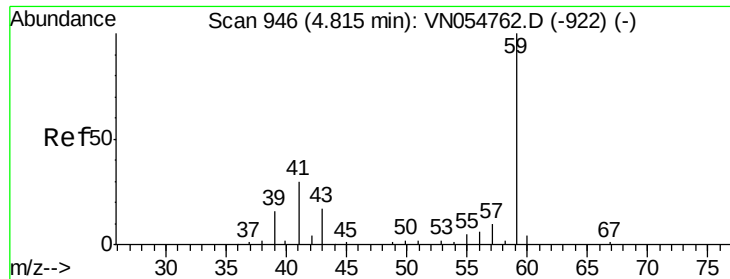
50

0

2.56 2.57 2.58 2.59

Time-->

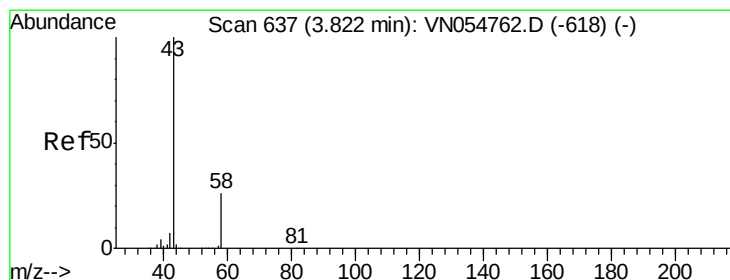
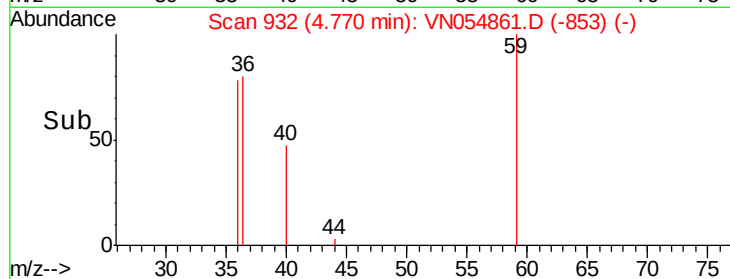
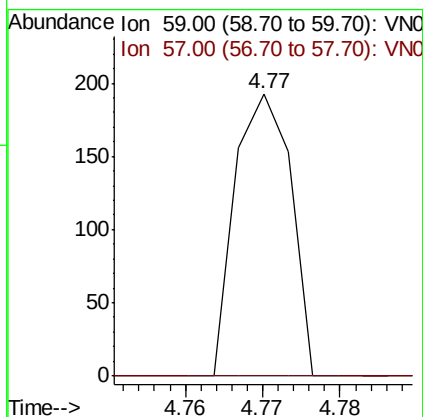
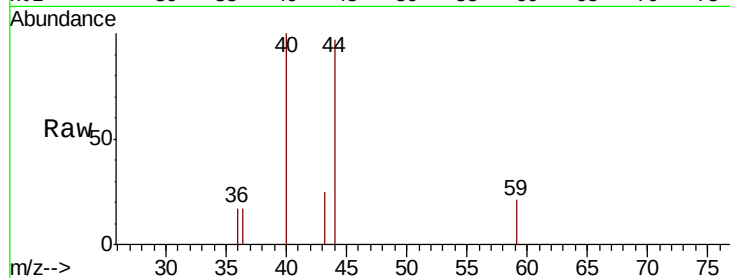




#11
Tert butyl alcohol
Concen: 0.263 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.04 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

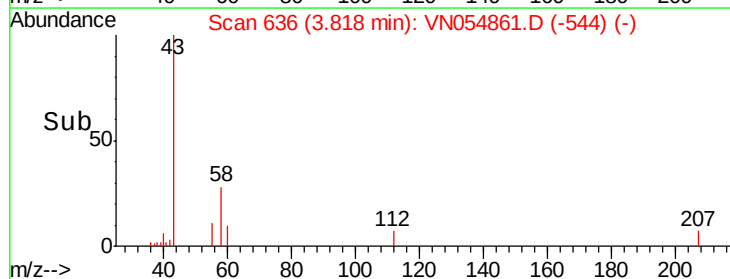
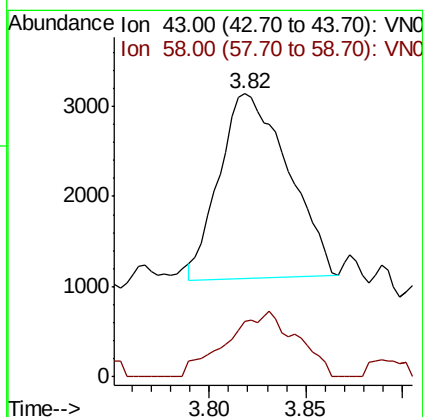
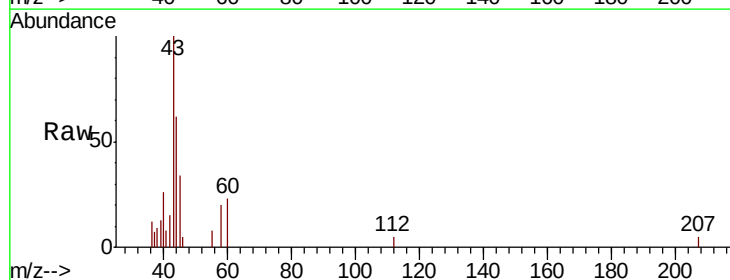
Instrument :
MSVOA_N
ClientSampled :

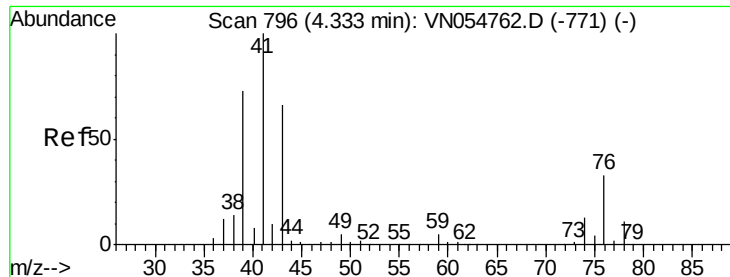
Tot Ion: 59 Resp: 97
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#16
Acetone
Concen: 3.007 ug/l
RT: 3.82 min Scan# 636
Delta R.T. -0.00 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

Tgt Ion: 43 Resp: 5071
Ion Ratio Lower Upper
43 100
58 31.0 29.9 44.9

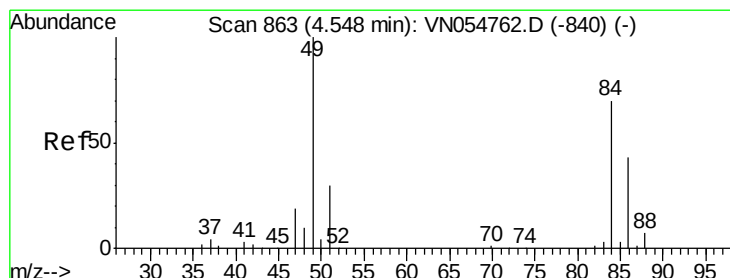
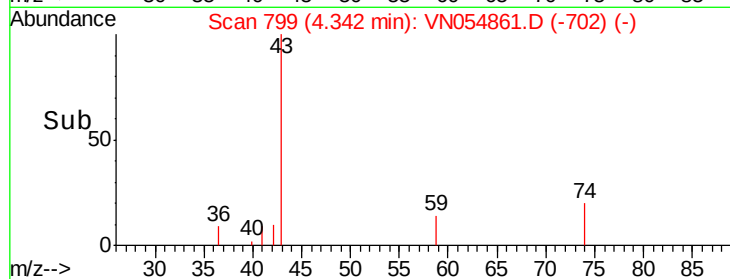
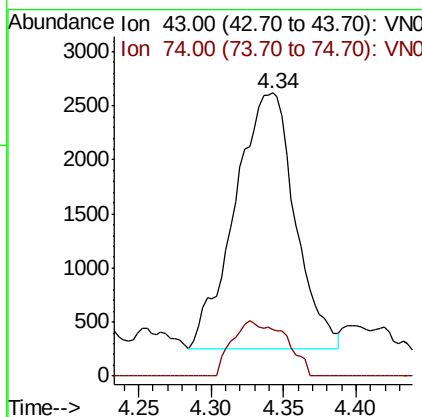
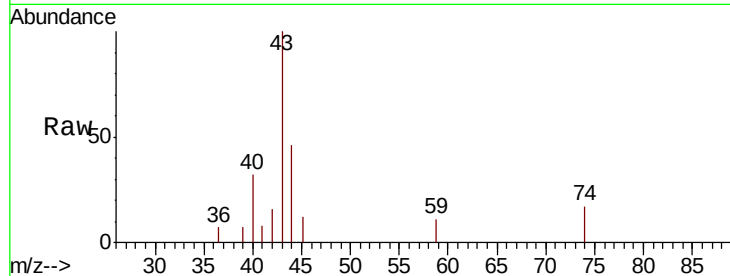




#18
Methyl Acetate
Concen: 0.642 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

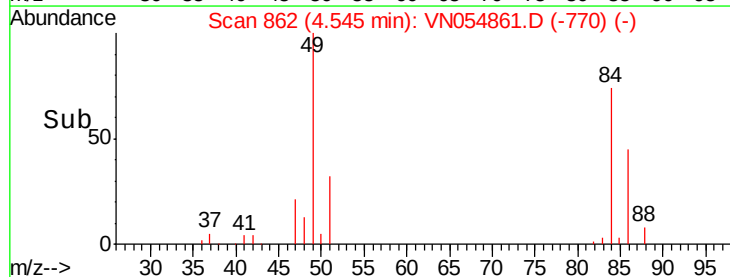
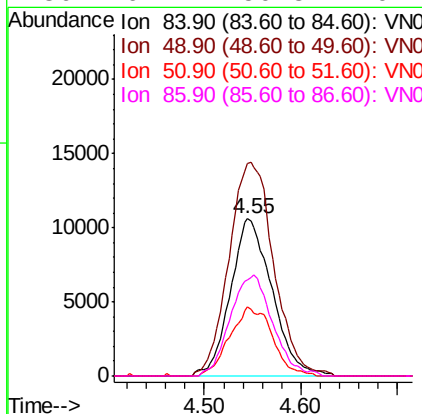
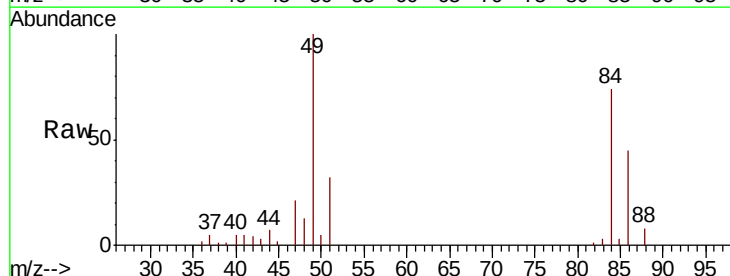
Instrument :
MSVOA_N
ClientSampled :

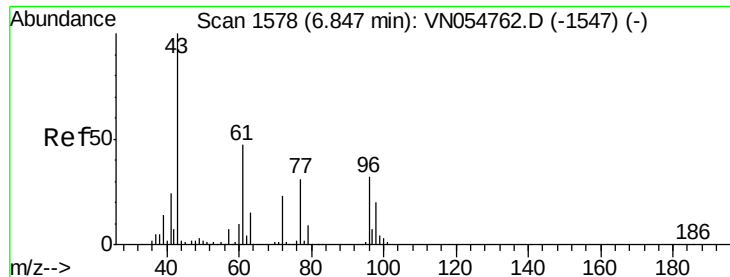
Tot Ion: 43 Resp: 6806
Ion Ratio Lower Upper
43 100
74 19.2 20.8 31.2#



#20
Methylene Chloride
Concen: 5.334 ug/l
RT: 4.55 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

Tgt Ion: 84 Resp: 31727
Ion Ratio Lower Upper
84 100
49 135.0 89.7 134.5#
51 43.8 28.2 42.4#
86 61.1 50.8 76.2

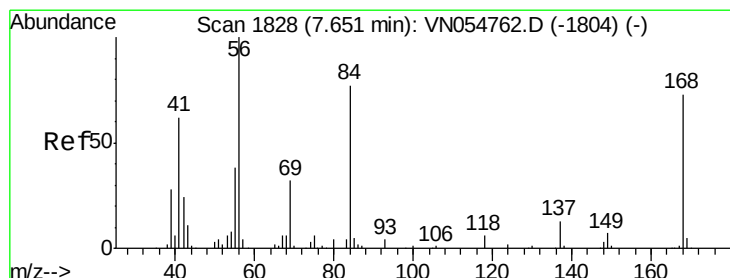
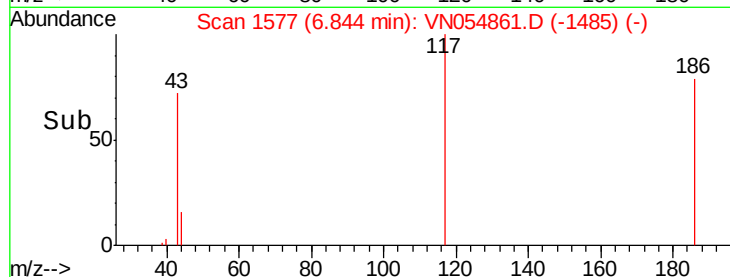
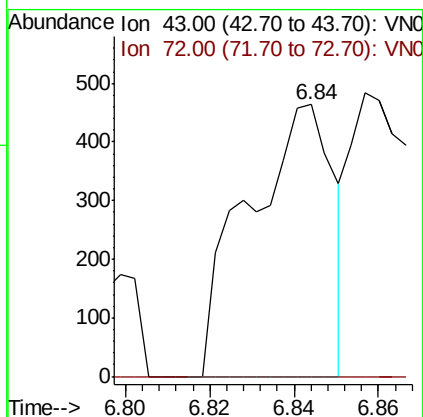
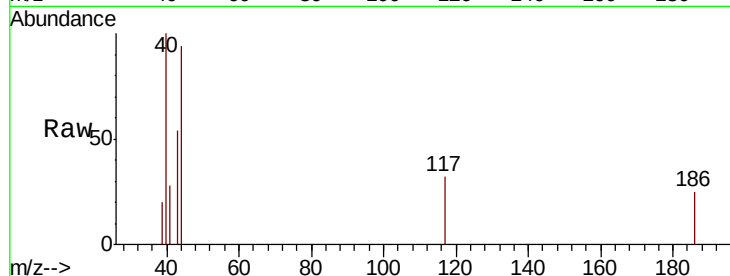




#25
2-Butanone
Concen: 0.260 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. -0.00 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

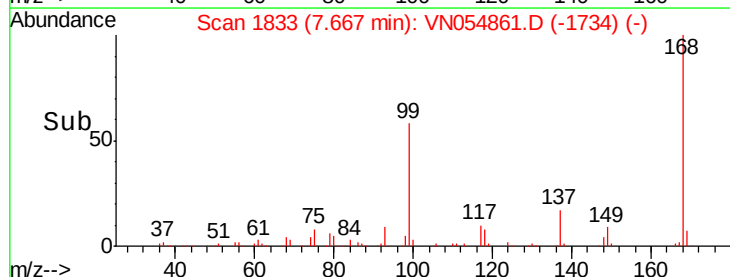
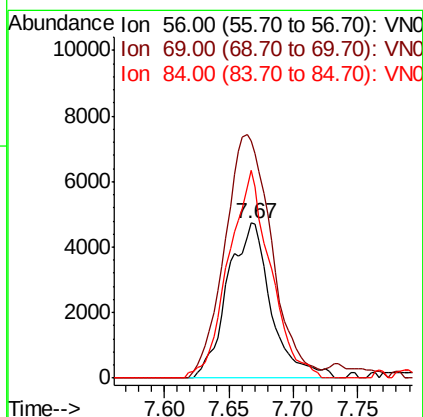
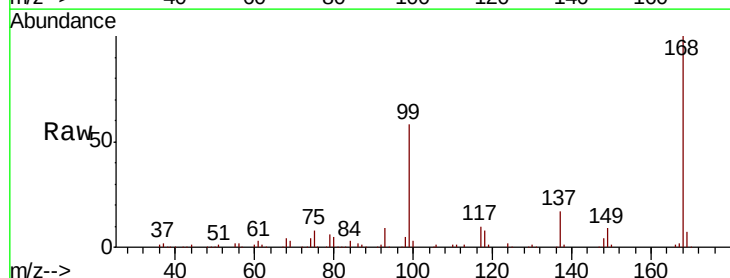
Instrument :
MSVOA_N
ClientSampled :

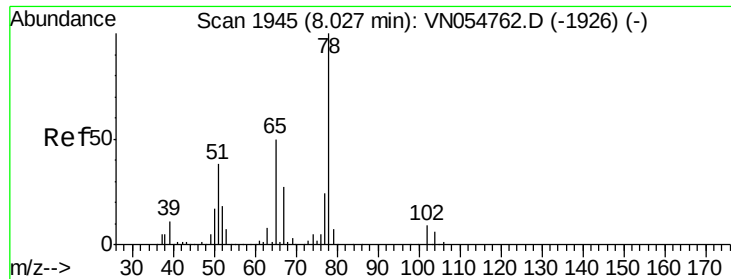
Tot Ion: 43 Resp: 649
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

Tgt Ion: 56 Resp: 11090
Ion Ratio Lower Upper
56 100
69 153.1 27.8 41.6#
84 133.5 74.6 111.8#

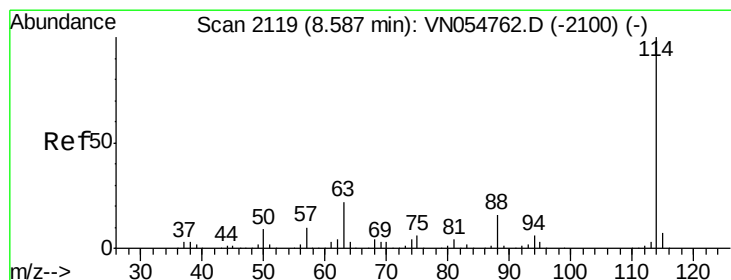
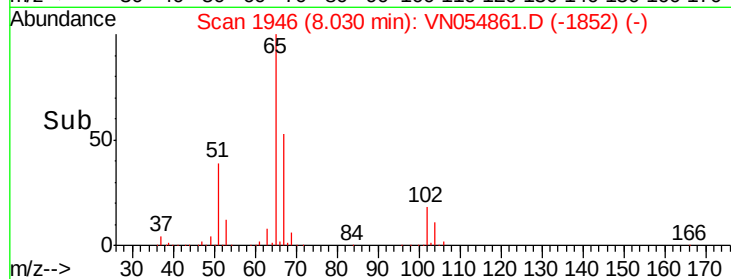
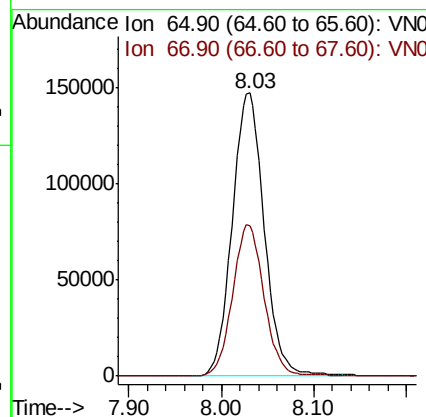
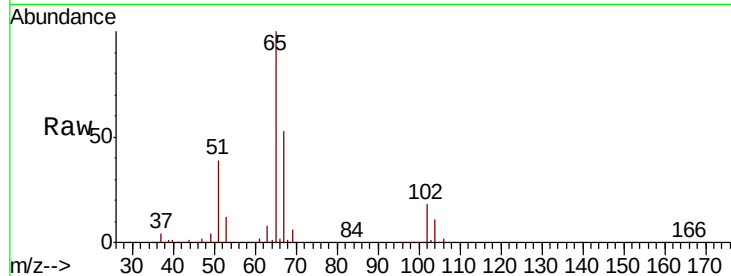




#33
 1,2-Dichloroethane-d4
 Concen: 49.808 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054861.D
 Acq: 31 Mar 2019 19:57

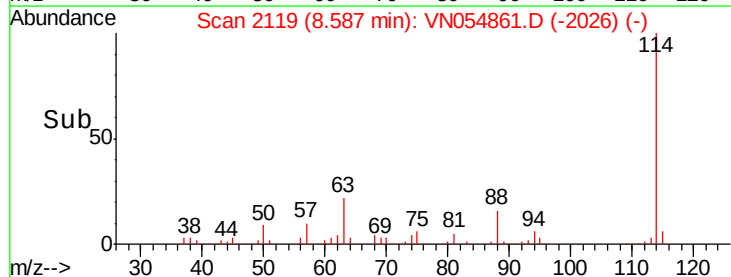
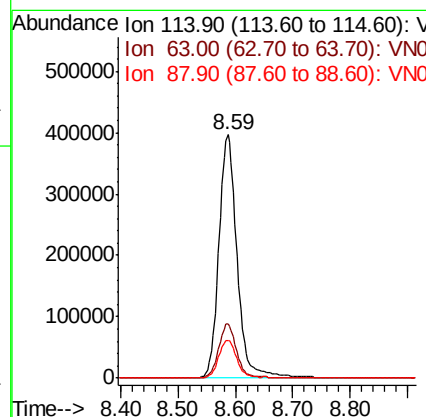
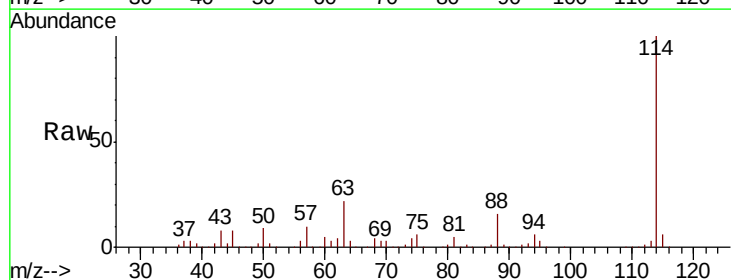
Instrument :
 MSVOA_N
 ClientSampleId :

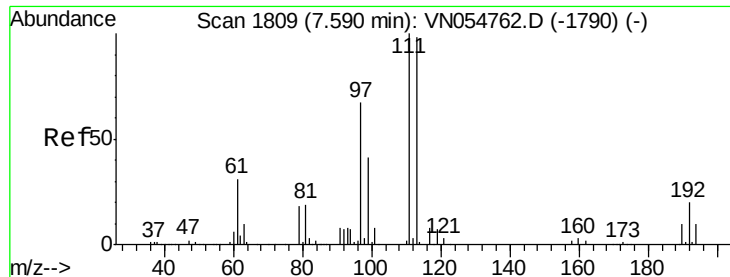
Tot Ion: 65 Resp: 352207
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054861.D
 Acq: 31 Mar 2019 19:57

Tgt Ion: 114 Resp: 880891
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 35.2
 88 15.6 0.0 30.2





#35

Dibromofluoromethane

Concen: 46.301 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampled :

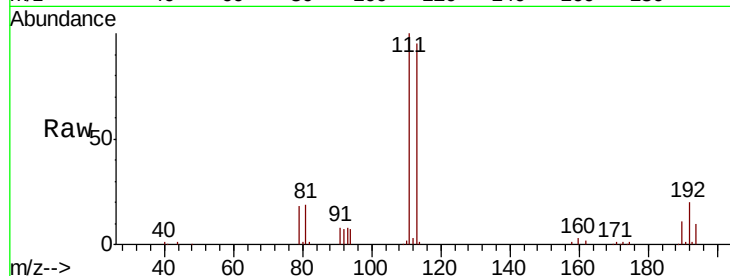
Tot Ion:113 Resp: 271919

Ion Ratio Lower Upper

113 100

111 104.7 82.2 123.4

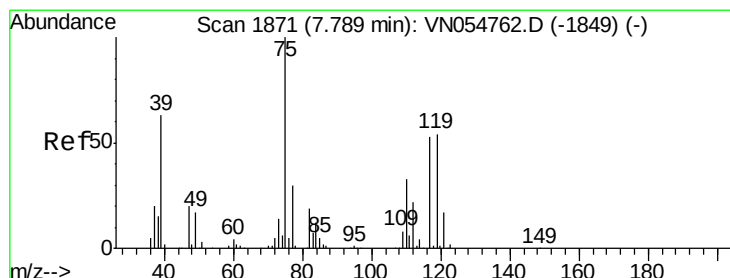
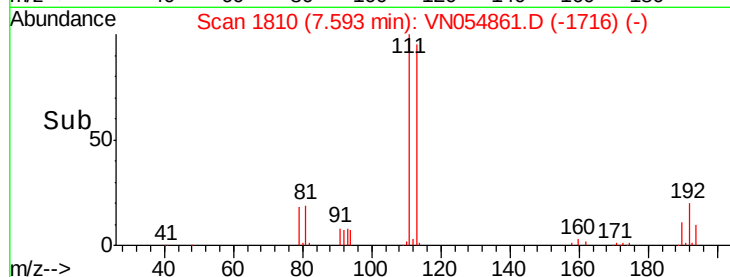
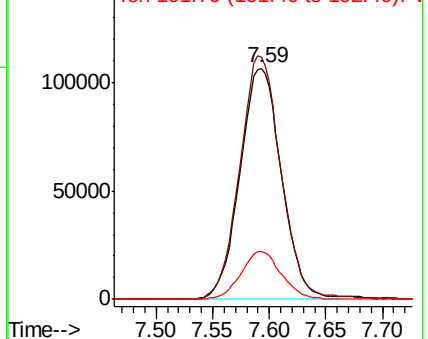
192 20.3 19.2 28.8



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: 4.916 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

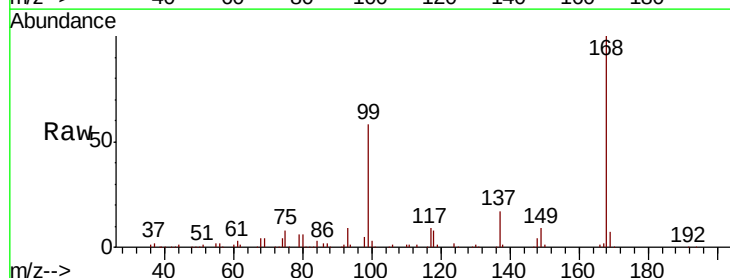
Tgt Ion: 75 Resp: 40350

Ion Ratio Lower Upper

75 100

110 9.3 19.1 57.5#

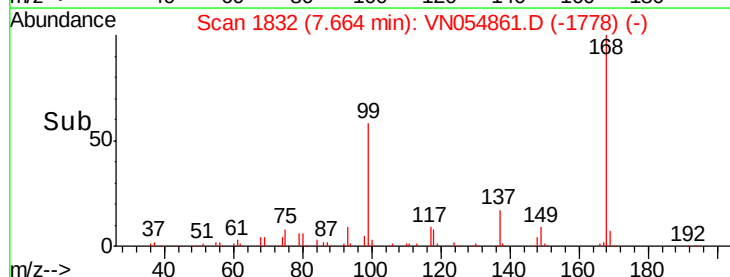
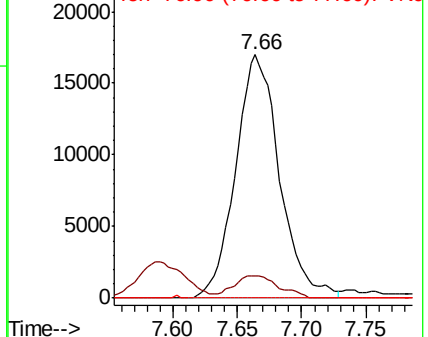
77 0.0 25.0 37.4#

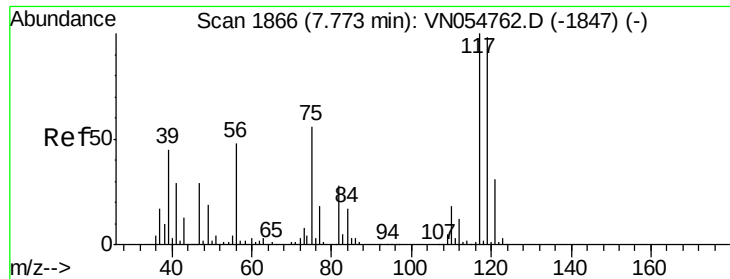


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.025 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

Instrument :
MSVOA_N
ClientSampled :

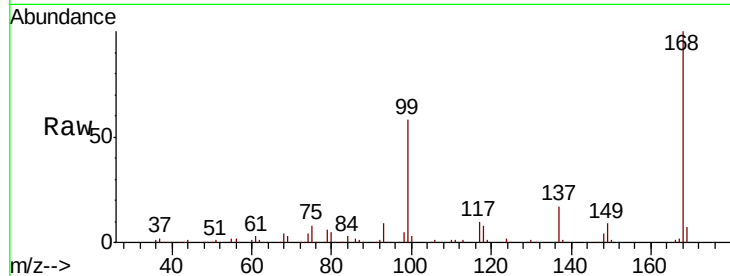
Tot Ion:117 Resp: 48034

Ion Ratio Lower Upper

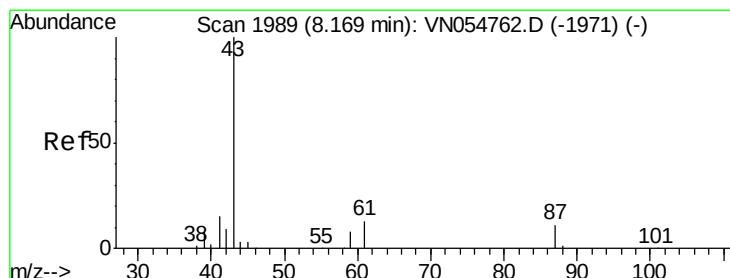
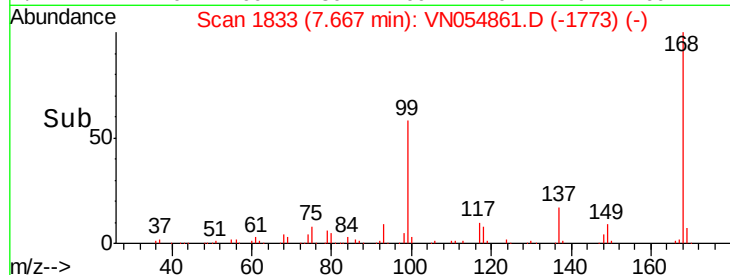
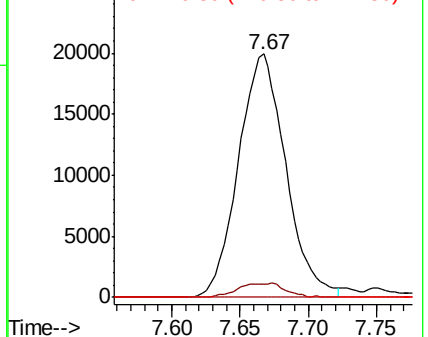
117 100

119 5.5 76.3 114.5#

121 0.0 24.6 36.8#



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: 1.797 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

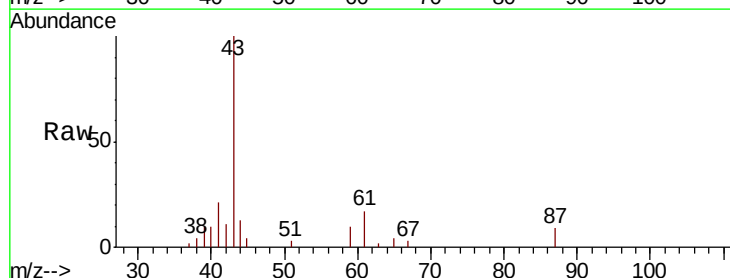
Tgt Ion: 43 Resp: 17578

Ion Ratio Lower Upper

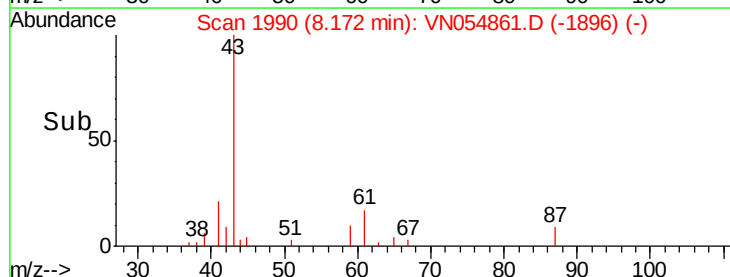
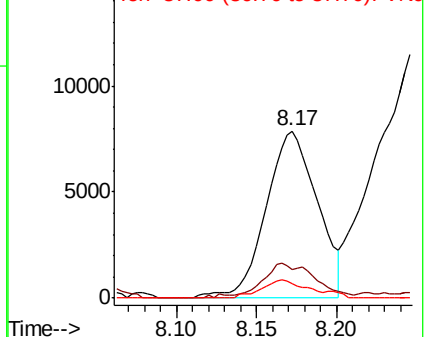
43 100

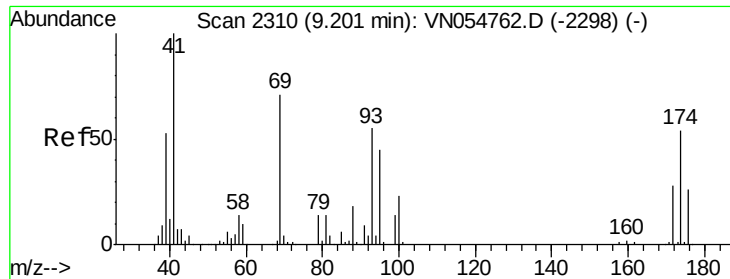
61 21.6 15.8 23.8

87 10.4 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

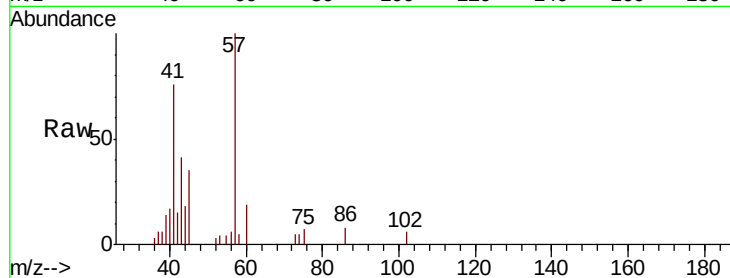




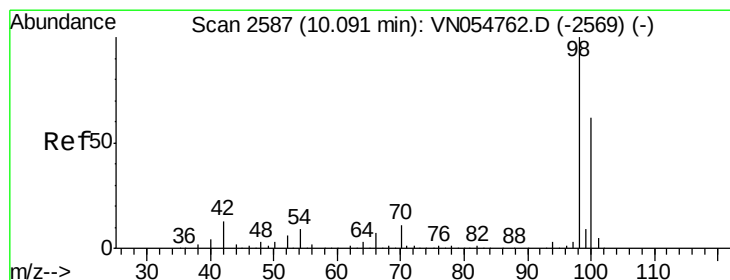
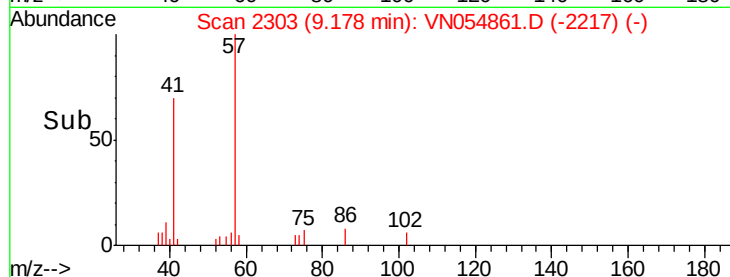
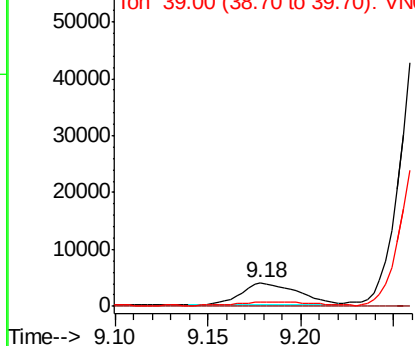
#48
Methvl methacrylate
Concen: 1.553 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 8232
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#

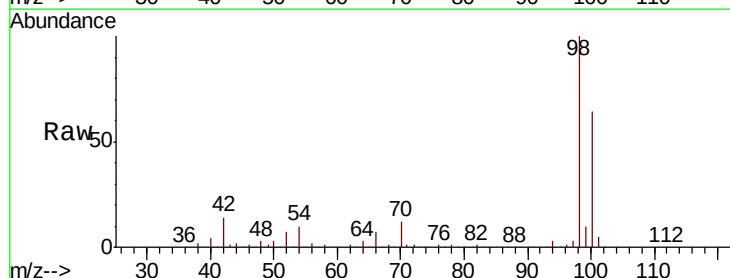


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

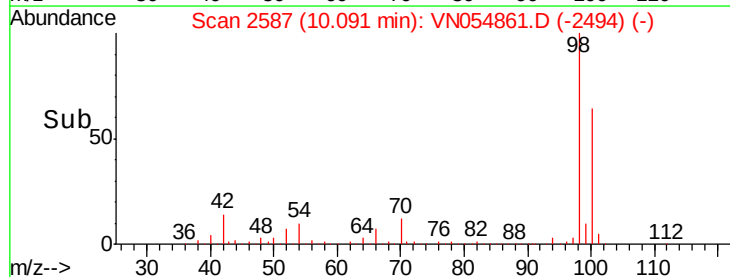
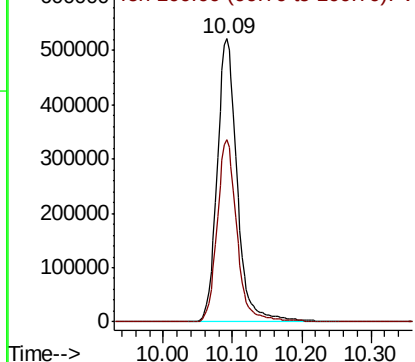


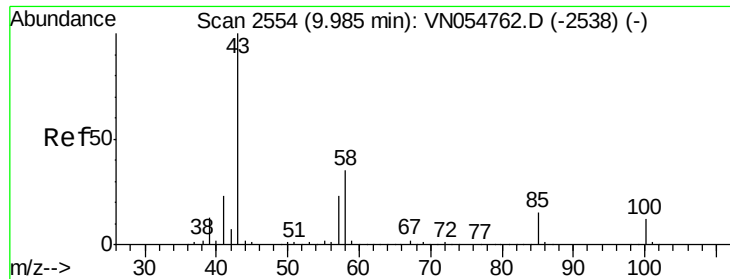
#50
Toluene-d8
Concen: 47.952 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

Tgt Ion: 98 Resp: 1046972
Ion Ratio Lower Upper
98 100
100 63.6 51.2 76.8



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: 1.767 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

Instrument :

MSVOA_N

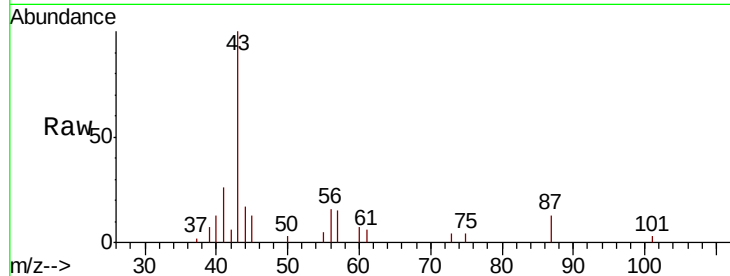
ClientSampled :

Tot Ion: 43 Resp: 9718

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.03

8000

6000

4000

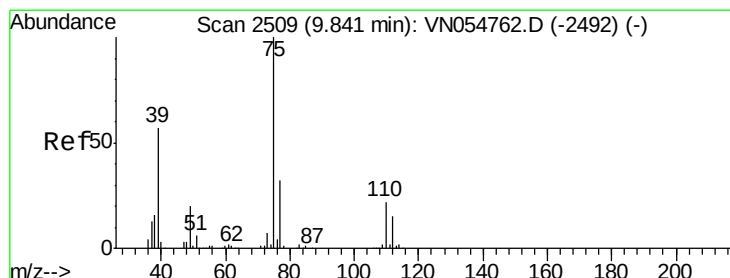
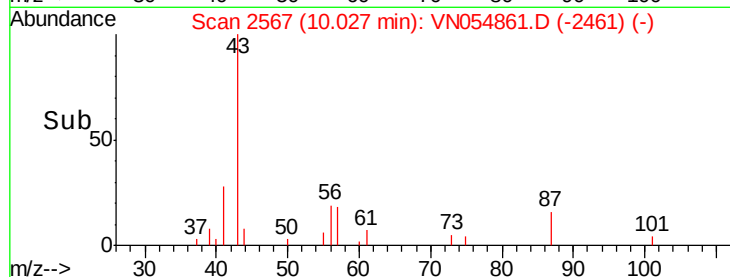
2000

0

10.00

10.05

Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.196 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

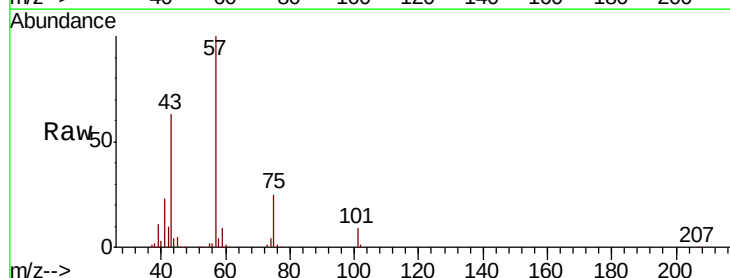
Tgt Ion: 75 Resp: 63313

Ion Ratio Lower Upper

75 100

77 0.6 25.4 38.0#

39 40.9 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.90

40000

30000

20000

10000

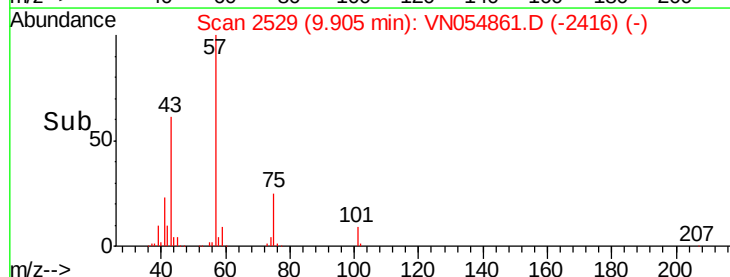
0

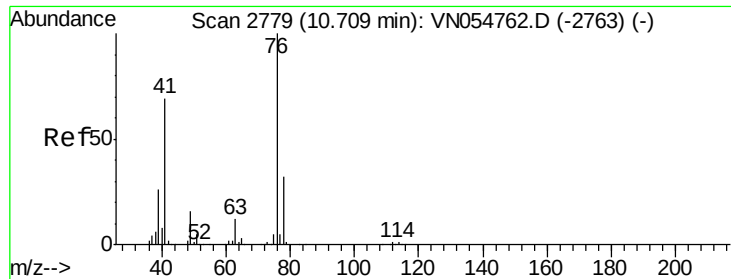
9.80

9.90

10.00

Time-->





#57

1,3-Dichloropropane

Concen: 1.316 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

Instrument :

MSVOA_N

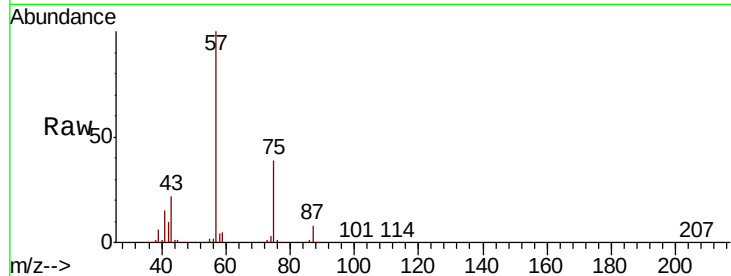
ClientSampleId :

Tot Ion: 76 Resp: 11759

Ion Ratio Lower Upper

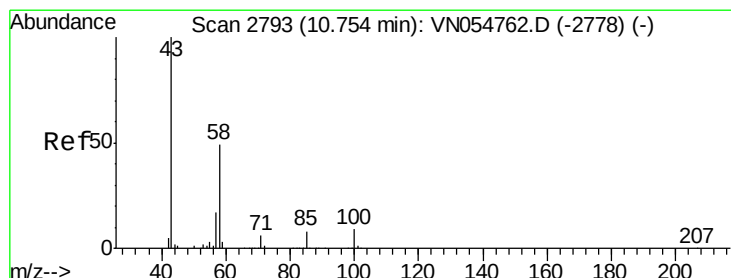
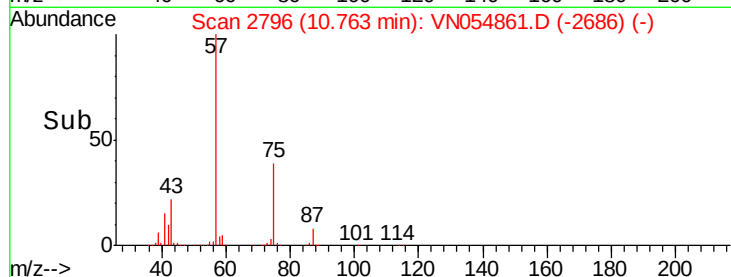
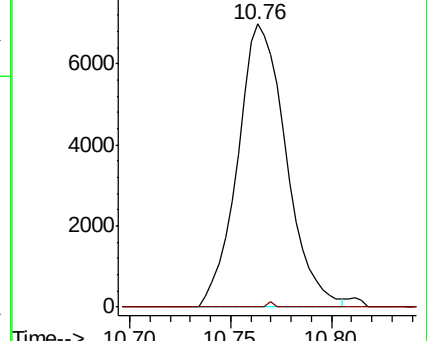
76 100

78 0.2 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 57.821 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054861.D

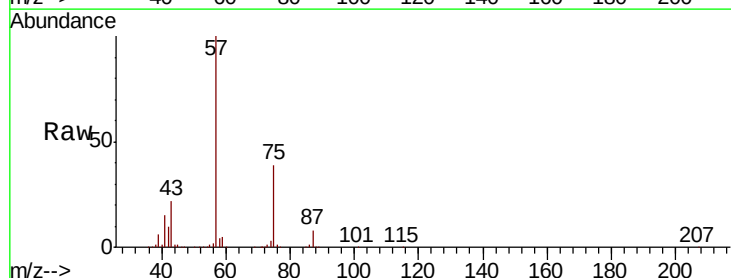
Acq: 31 Mar 2019 19:57

Tgt Ion: 43 Resp: 203539

Ion Ratio Lower Upper

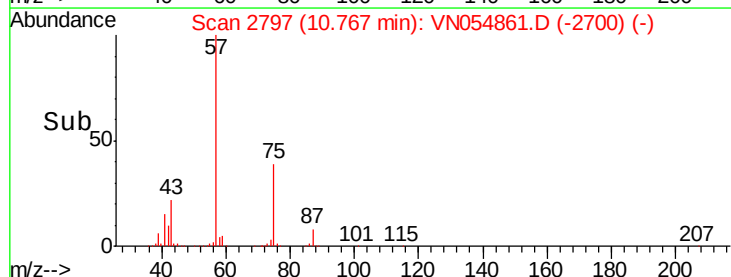
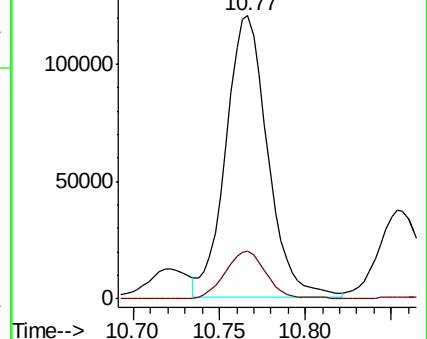
43 100

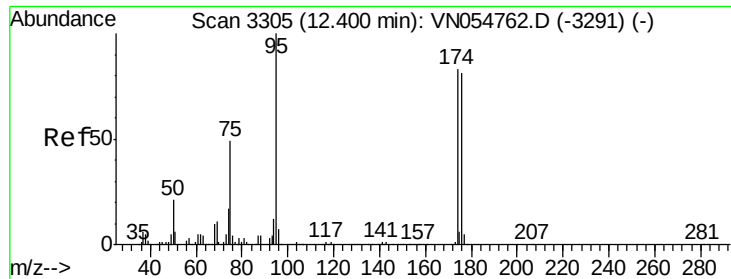
58 17.1 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

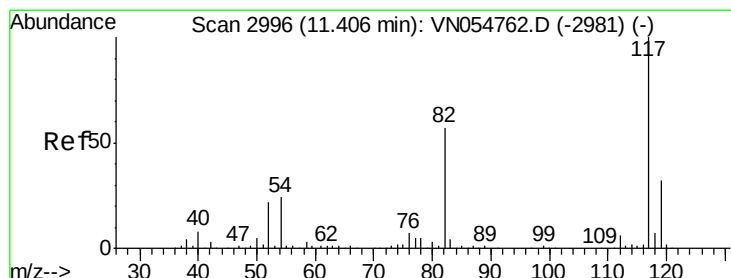
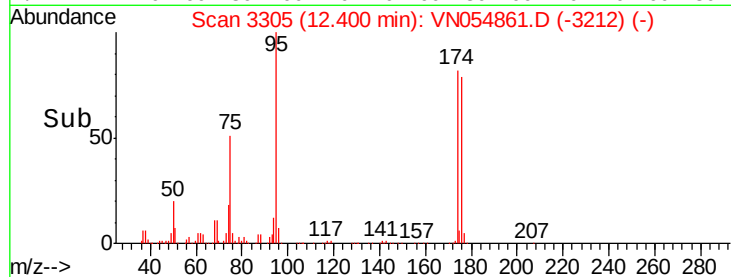
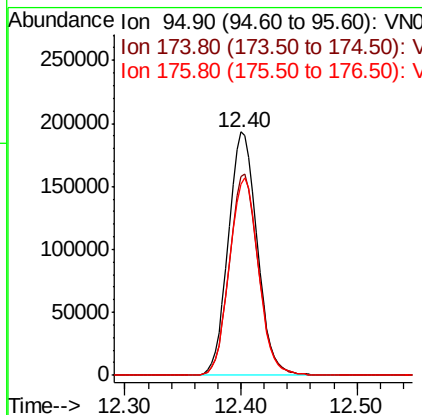
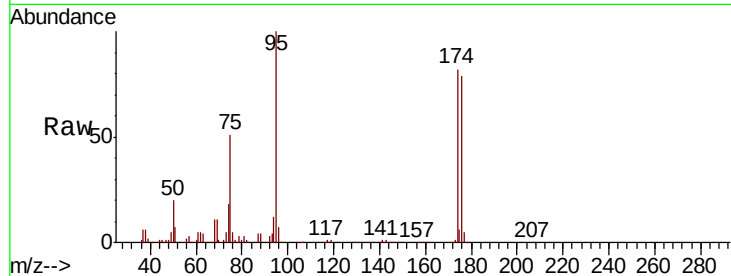




#62
4-Bromofluorobenzene
Concen: 45.717 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

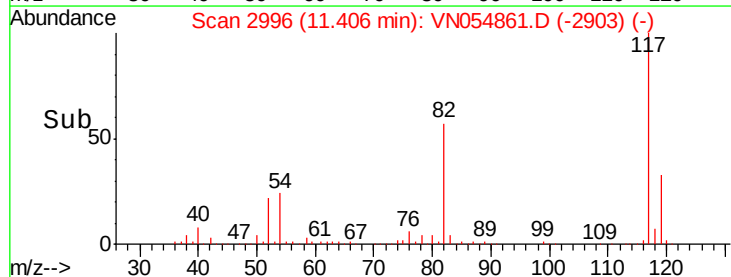
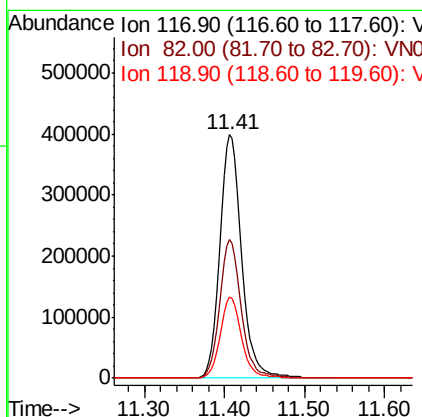
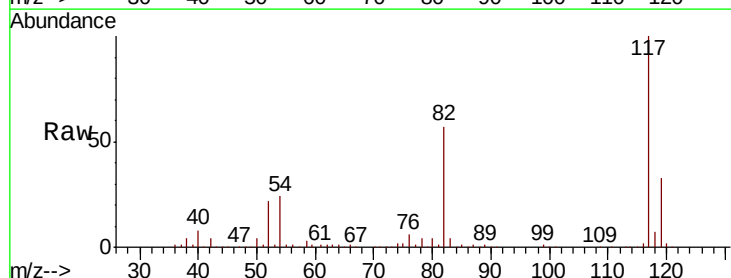
Instrument :
MSVOA_N
ClientSampled :

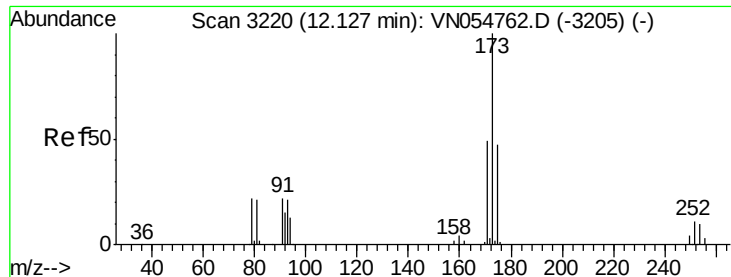
Tot Ion	Ratio	Lower	Upper
95	100		
174	82.6	0.0	191.0
176	81.6	0.0	187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054861.D
Acq: 31 Mar 2019 19:57

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.0	40.0	60.0
119	33.1	25.8	38.6





#71

Bromoform

Concen: 0.891 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampleId :

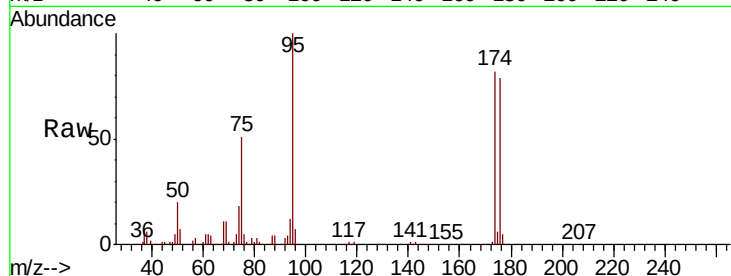
Tot Ion:173 Resp: 2873

Ion Ratio Lower Upper

173 100

175 622.6 24.4 73.2#

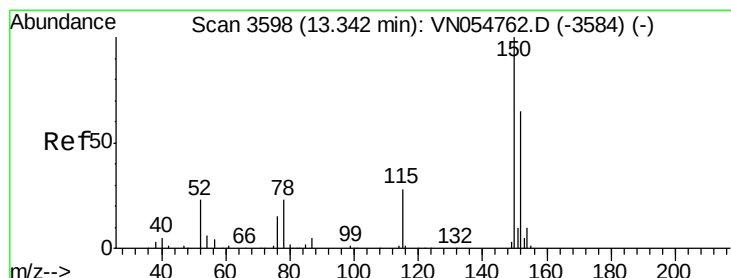
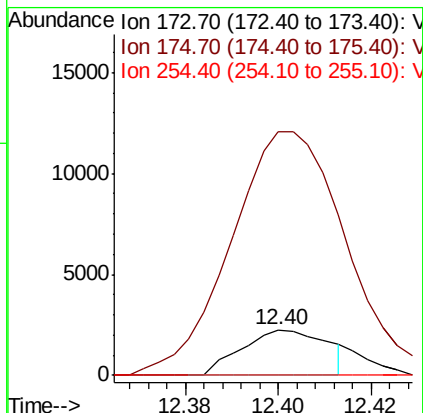
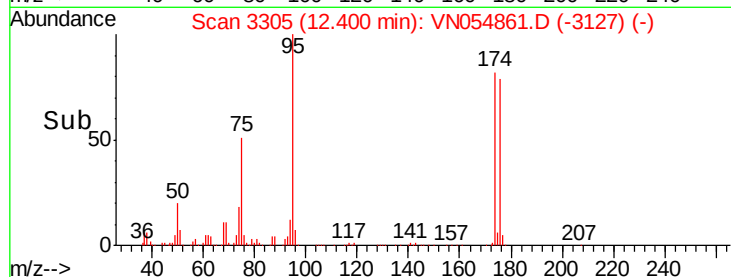
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

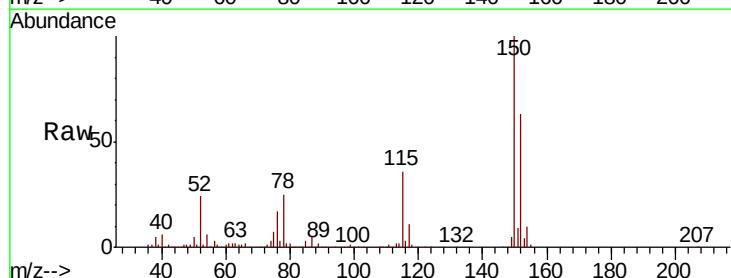
Tgt Ion:152 Resp: 272582

Ion Ratio Lower Upper

152 100

115 58.5 27.2 81.6

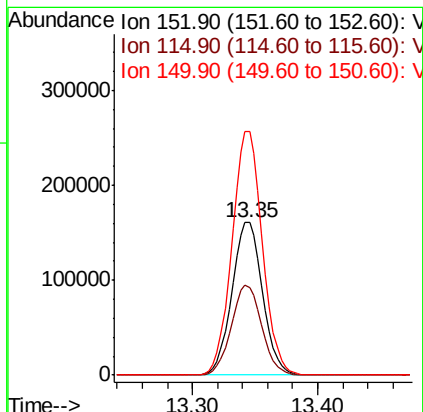
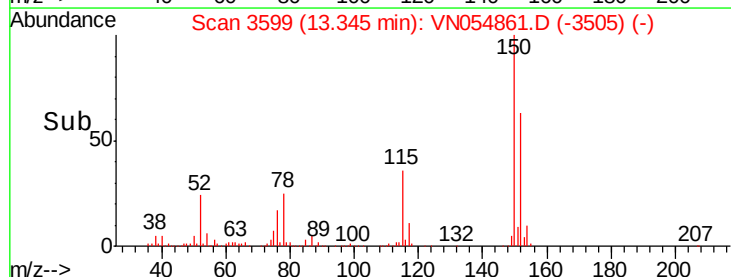
150 157.9 0.0 349.2

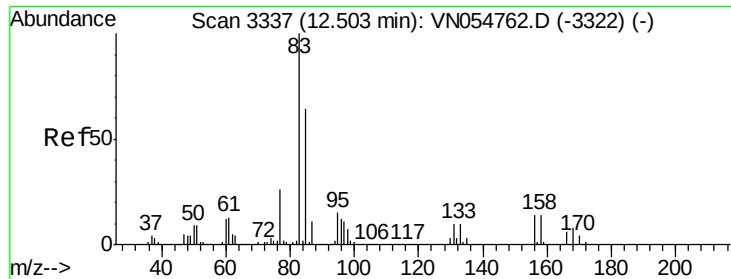


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN054861.D

Acq: 31 Mar 2019 19:57

Instrument :

MSVOA_N

ClientSampled :

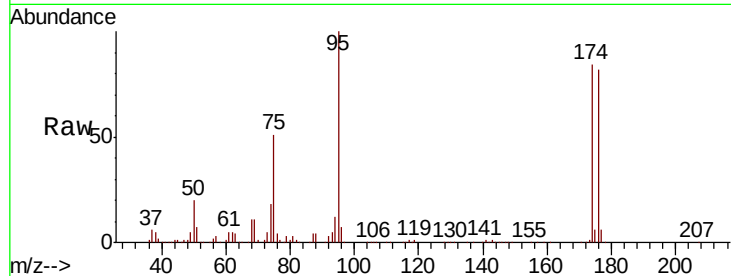
Tot Ion: 83 Resp: 193

Ion Ratio Lower Upper

83 100

131 224.9 5.8 17.4#

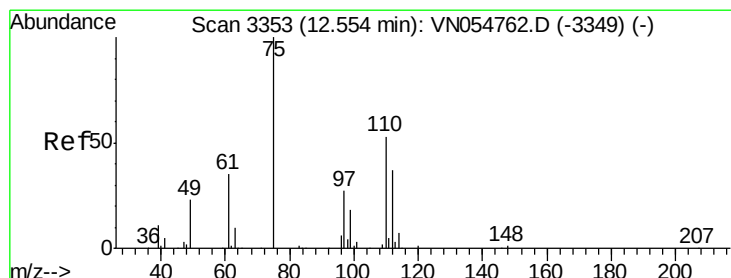
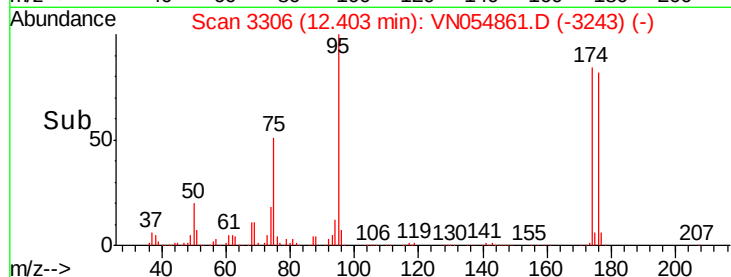
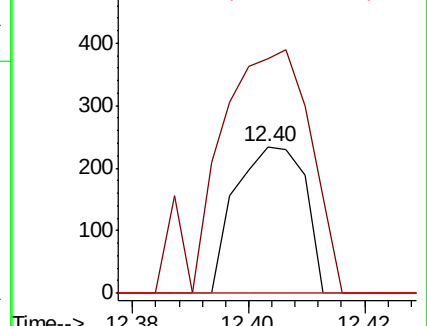
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 35.969 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054861.D

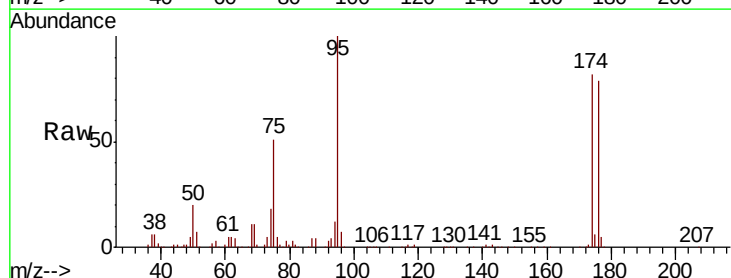
Acq: 31 Mar 2019 19:57

Tgt Ion: 75 Resp: 170327

Ion Ratio Lower Upper

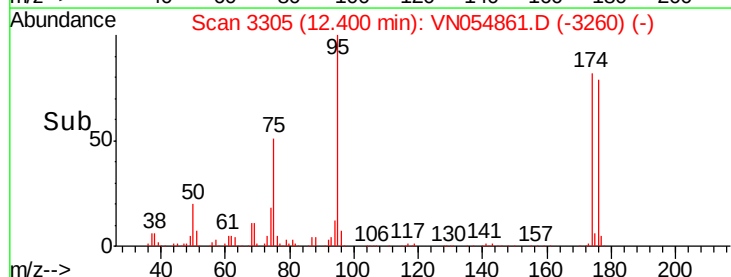
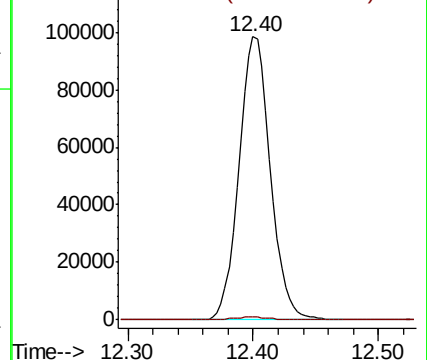
75 100

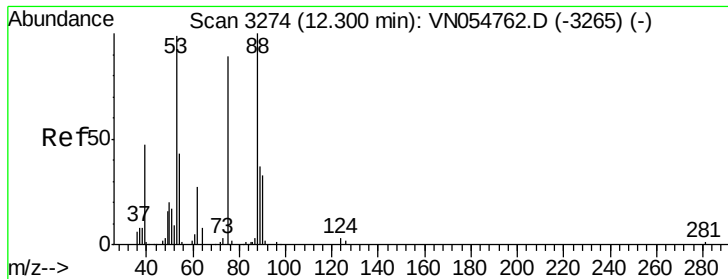
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

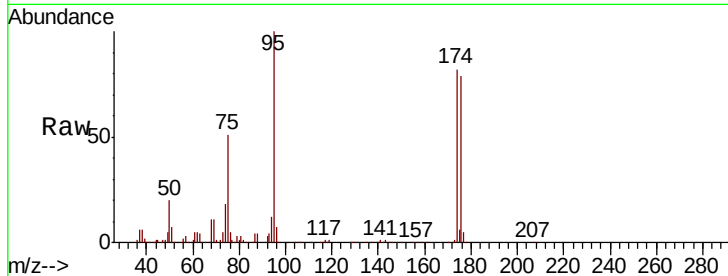




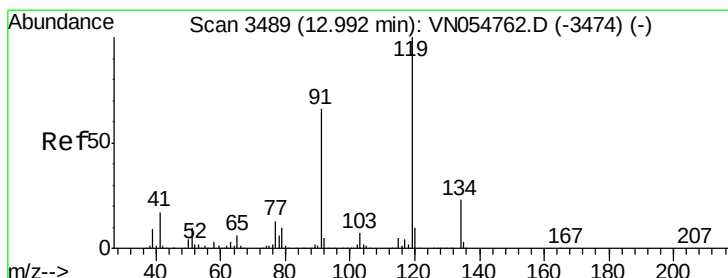
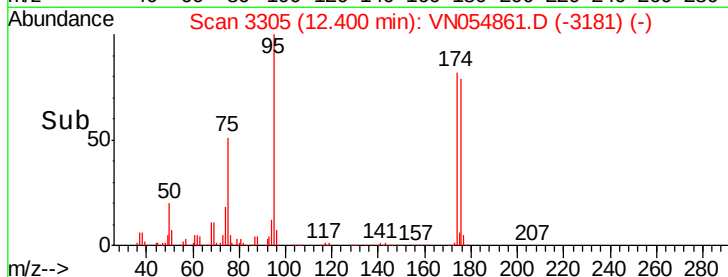
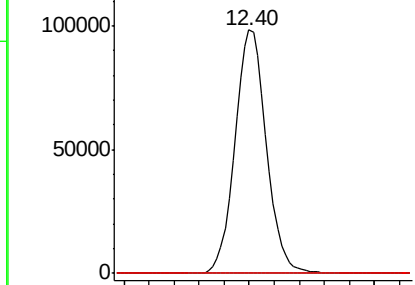
#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.910 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054861.D
 Acq: 31 Mar 2019 19:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 170327
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.2 114.2#
 89 0.0 39.2 58.8#

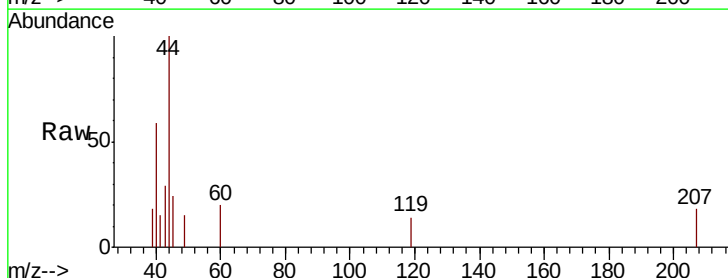


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 53.00 (52.70 to 53.70): VN0
 Ion 88.90 (88.60 to 89.60): VN0



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.23 min Scan# 3563
 Delta R.T. 0.24 min
 Lab File: VN054861.D
 Acq: 31 Mar 2019 19:57

Tgt Ion: 119 Resp: 30
 Ion Ratio Lower Upper
 119 100
 91 0.0 30.9 92.8#
 134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VN0
 Ion 134.00 (133.70 to 134.70): V

