

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054697.D
 Acq On : 26 Mar 2019 14:32
 Operator : JC/SP
 Sample : K2081-21
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:07:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	553307	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	881864	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	746326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	277048	50.00	ug/l	0.00

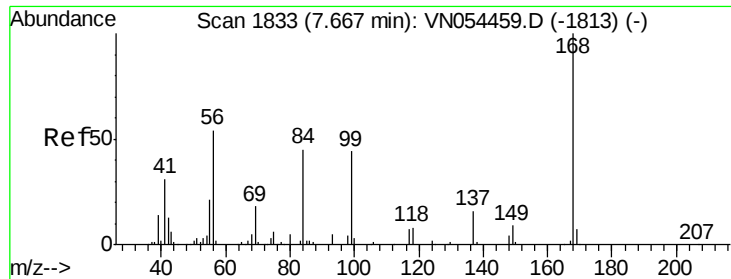
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	355598	51.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.34%	
35) Dibromofluoromethane	7.59	113	283144	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
50) Toluene-d8	10.09	98	1052590	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
62) 4-Bromofluorobenzene	12.40	95	326826	44.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.94%	

Target Compounds

					Qvalue	
13) Acrolein	3.61	56	425	0.739	ug/l #	47
16) Acetone	3.82	43	10597	5.121	ug/l #	87
20) Methylene Chloride	4.55	84	16243	2.663	ug/l #	71
25) 2-Butanone	6.87	43	1296	0.489	ug/l #	46
31) Cyclohexane	7.67	56	11386	Below Cal	#	23
36) 1,1-Dichloropropene	7.67	75	40933	4.964	ug/l #	42
38) Carbon Tetrachloride	7.67	117	50823	6.343	ug/l #	15
43) Isopropyl Acetate	8.17	43	15682	1.583	ug/l #	95
45) 1,2-Dichloropropane	9.27	63	1489	0.235	ug/l #	43
48) Methyl methacrylate	9.18	41	7422	1.381	ug/l #	11
49) 1,4-Dioxane	9.27	88	103	1.714	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9511	1.733	ug/l #	40
53) t-1,3-Dichloropropene	10.28	75	61	2.239	ug/l #	42
54) cis-1,3-Dichloropropene	9.90	75	57021	6.344	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	11012	1.215	ug/l #	43
59) 2-Hexanone	10.77	43	182384	50.869	ug/l #	47
71) Bromoform	12.38	173	304	2.298	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	167535	38.108	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	167535	126.210	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

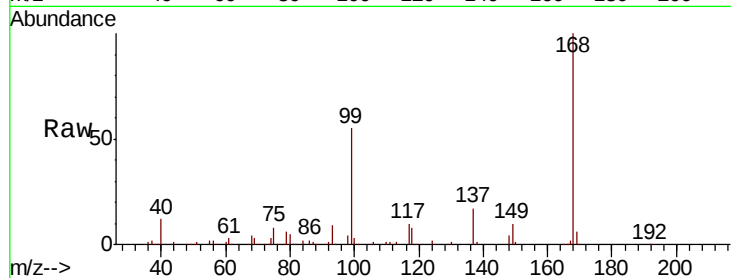
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 553307

Ion Ratio Lower Upper

168 100

99 54.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

200000

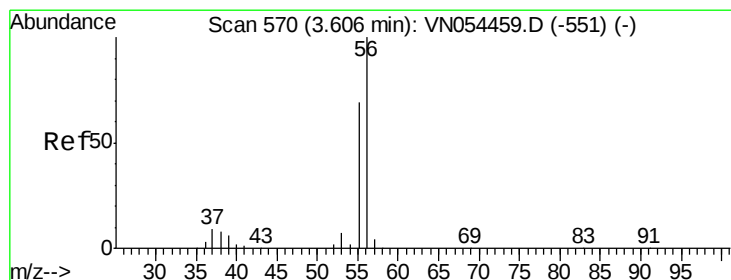
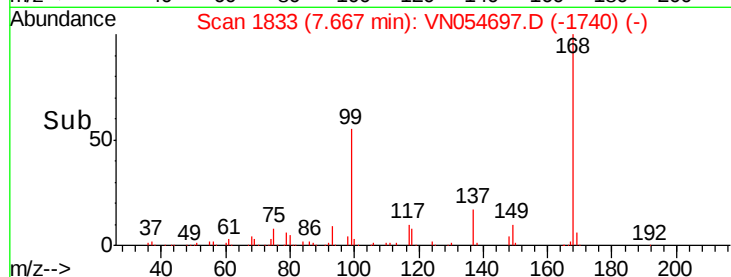
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#13

Acrolein

Concen: 0.739 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054697.D

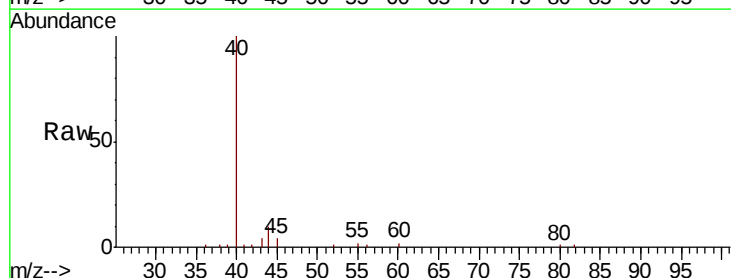
Acq: 26 Mar 2019 14:32

Tgt Ion: 56 Resp: 425

Ion Ratio Lower Upper

56 100

55 114.6 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

400

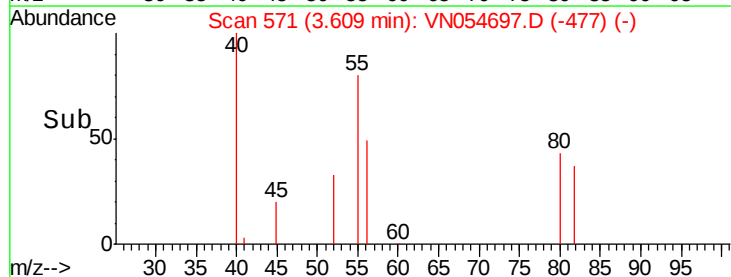
300

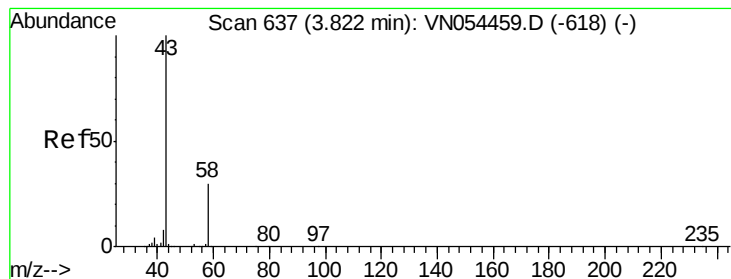
200

100

0

Time--> 3.58 3.60 3.62 3.64





#16

Acetone

Concen: 5.121 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

Instrument :

MSVOA_N

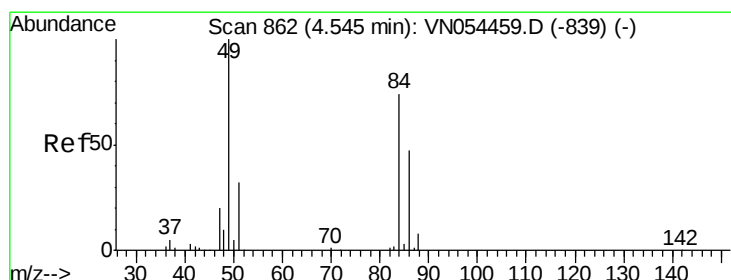
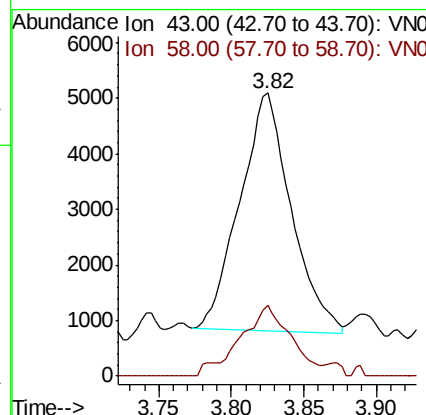
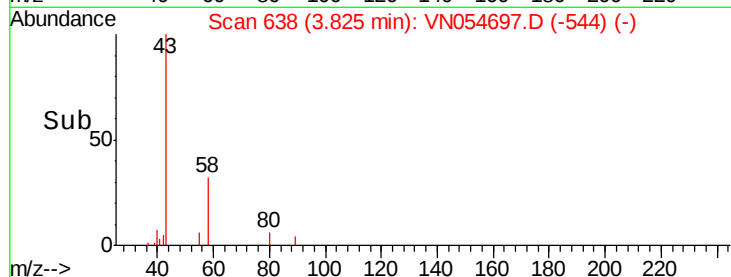
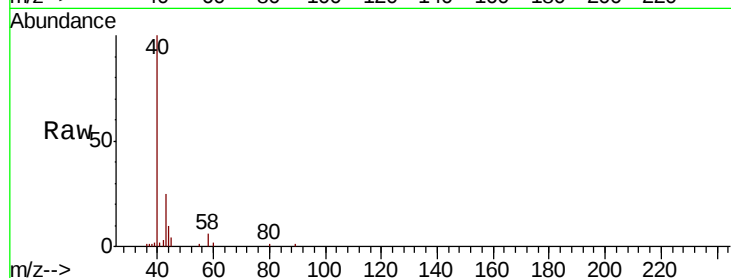
ClientSampleId :

Tot Ion: 43 Resp: 10597

Ion Ratio Lower Upper

43 100

58 29.9 29.9 44.9#



#20

Methylene Chloride

Concen: 2.663 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.01 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

Tgt Ion: 84 Resp: 16243

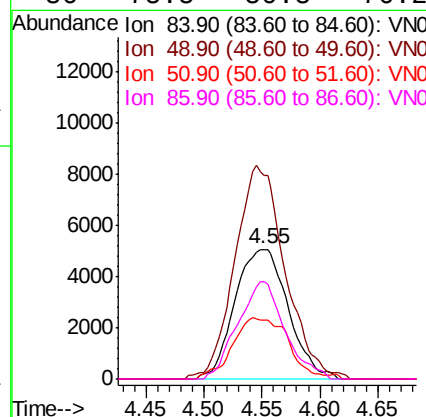
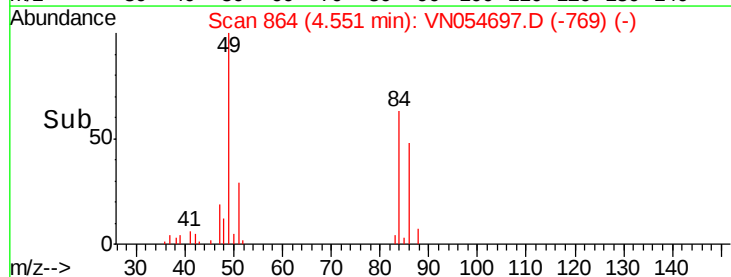
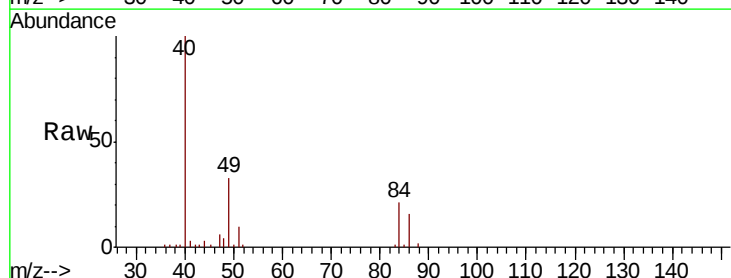
Ion Ratio Lower Upper

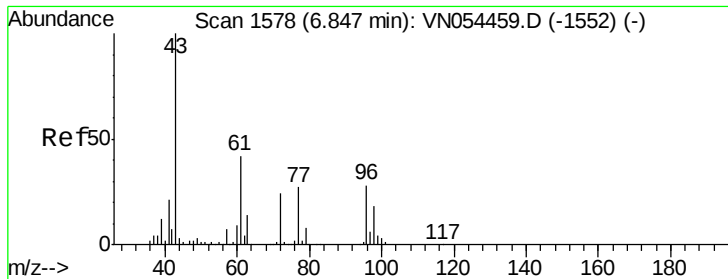
84 100

49 154.3 89.7 134.5#

51 45.4 28.2 42.4#

86 75.5 50.8 76.2

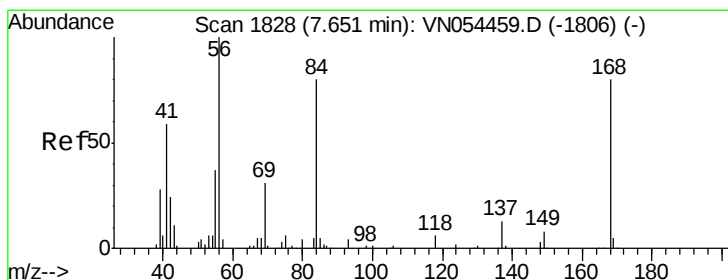
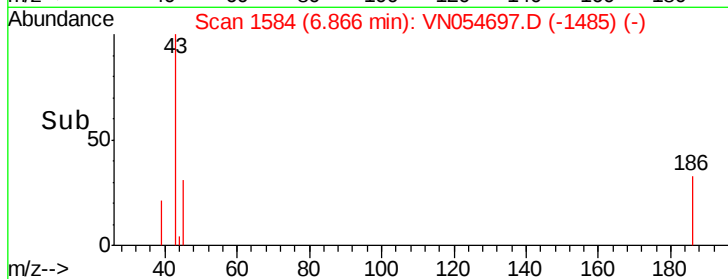
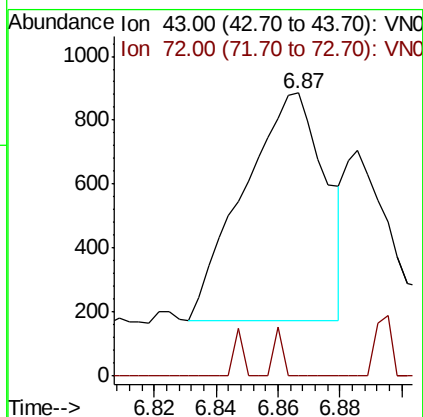
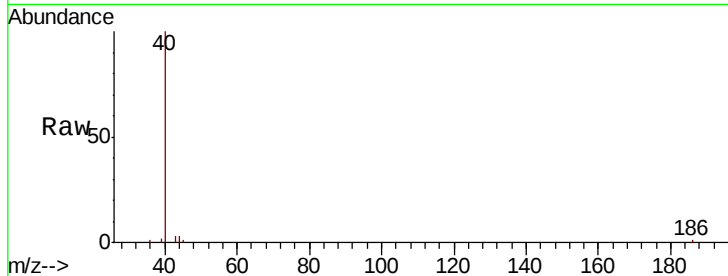




#25
2-Butanone
Concen: 0.489 ug/l
RT: 6.87 min Scan# 1584
Delta R.T. 0.02 min
Lab File: VN054697.D
Acq: 26 Mar 2019 14:32

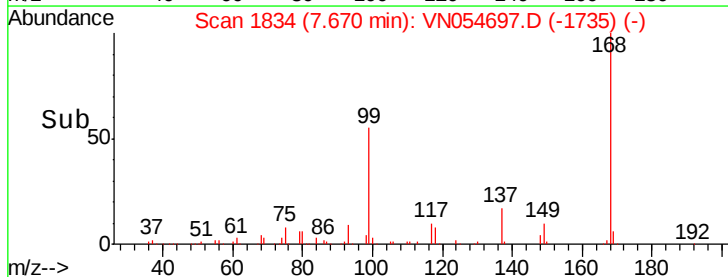
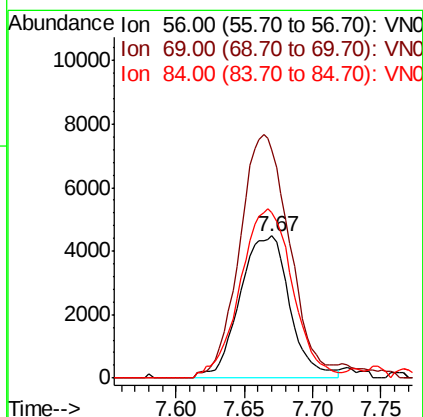
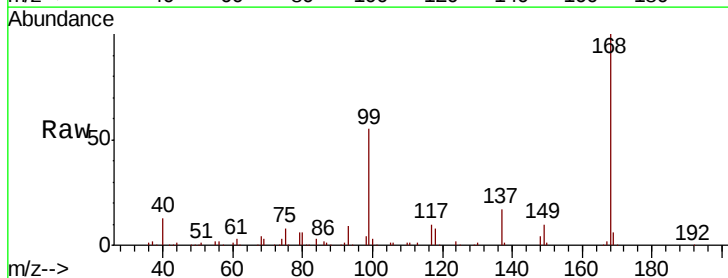
Instrument :
MSVOA_N
ClientSampled :

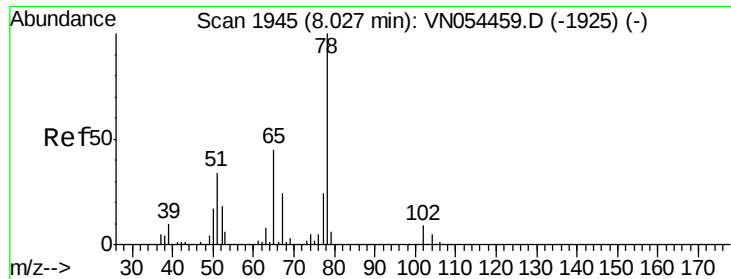
Tot Ion: 43 Resp: 1296
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN054697.D
Acq: 26 Mar 2019 14:32

Tgt Ion: 56 Resp: 11386
Ion Ratio Lower Upper
56 100
69 160.8 27.8 41.6#
84 116.7 74.6 111.8#

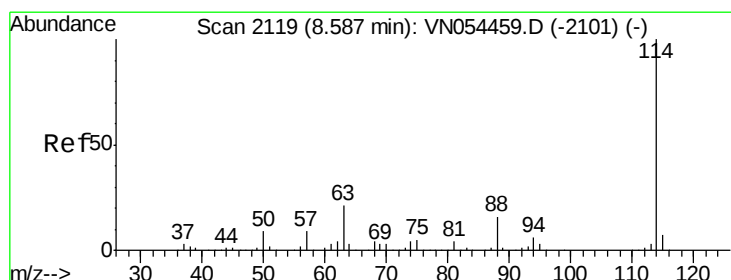
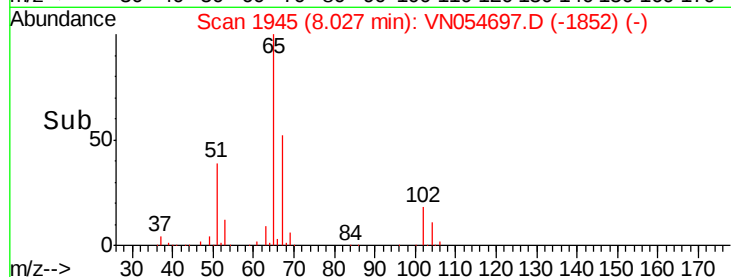
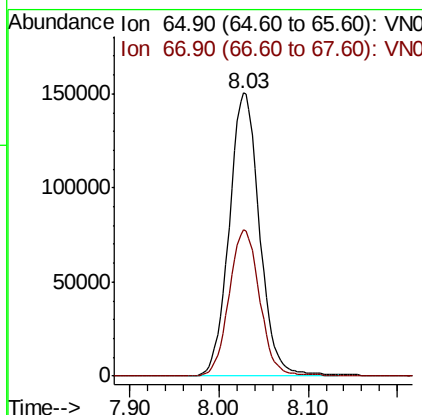
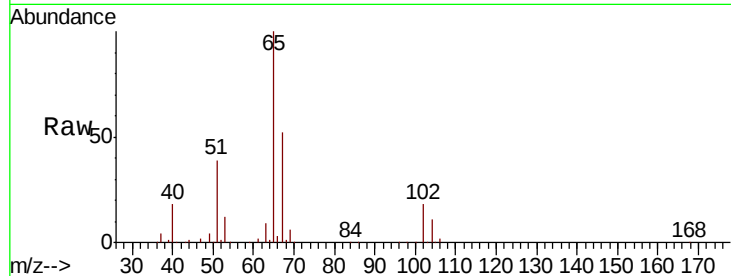




#33
 1,2-Dichloroethane-d4
 Concen: 51.669 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054697.D
 Acq: 26 Mar 2019 14:32

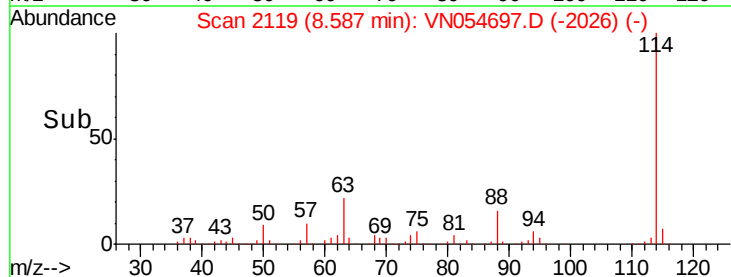
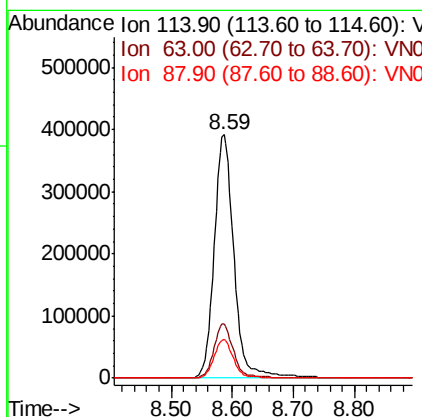
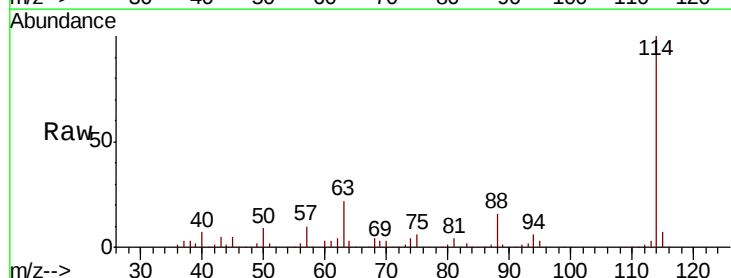
Instrument :
 MSVOA_N
 ClientSampleId :

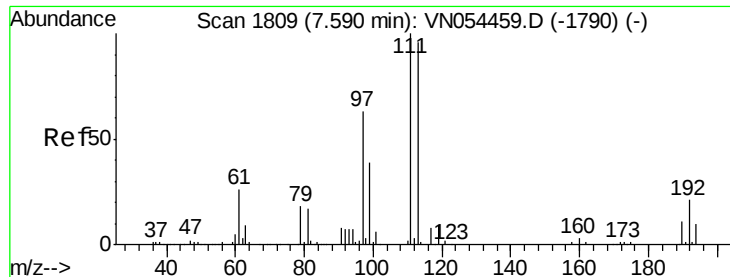
Tot Ion: 65 Resp: 355598
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054697.D
 Acq: 26 Mar 2019 14:32

Tgt Ion: 114 Resp: 881864
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 35.2
 88 15.8 0.0 30.2

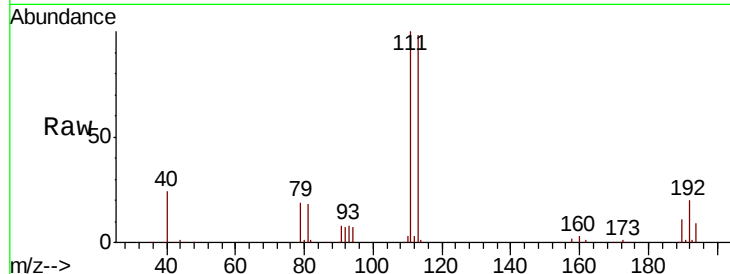




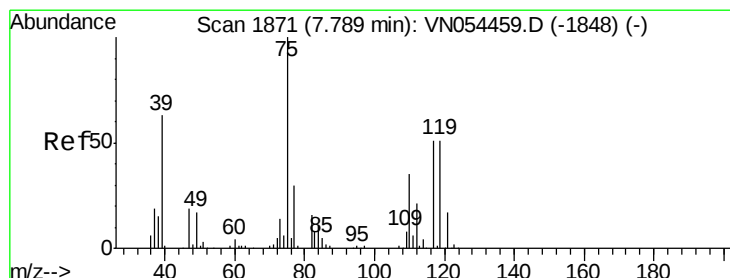
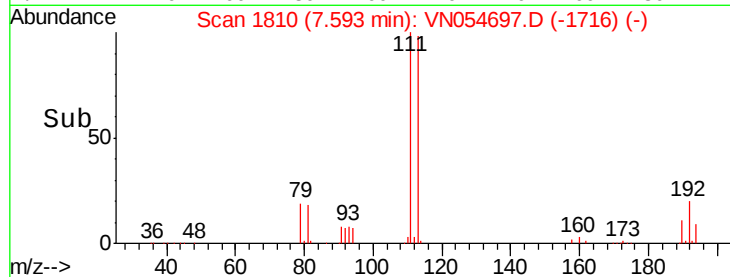
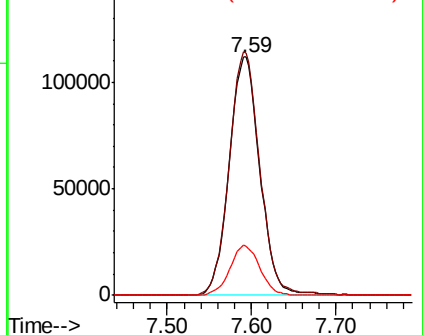
#35
 Dibromofluoromethane
 Concen: 49.837 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054697.D
 Acq: 26 Mar 2019 14:32

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.4
192	20.5	19.2	28.8

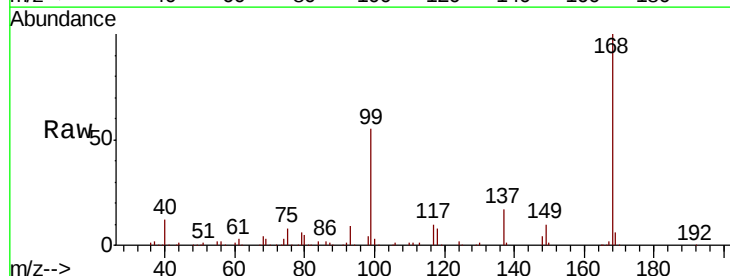


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

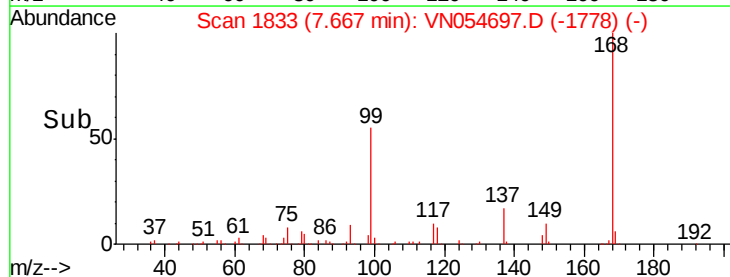
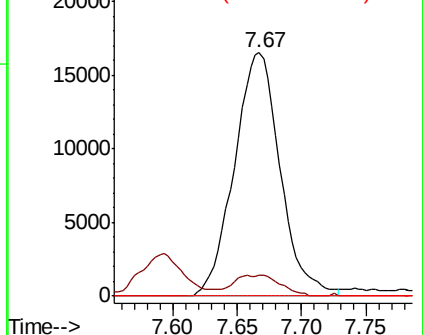


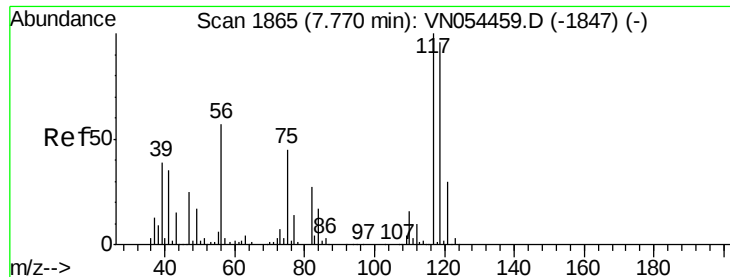
#36
 1,1-Dichloropropene
 Concen: 4.964 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054697.D
 Acq: 26 Mar 2019 14:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	2.6	19.1	57.5#
77	0.0	25.0	37.4#



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





#38

Carbon Tetrachloride

Concen: 6.343 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

Instrument :

MSVOA_N

ClientSampled :

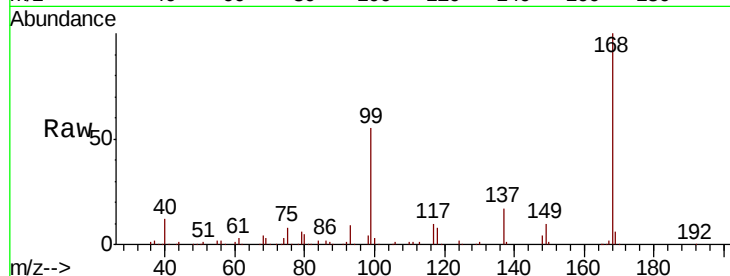
Tot Ion:117 Resp: 50823

Ion Ratio Lower Upper

117 100

119 3.9 76.3 114.5#

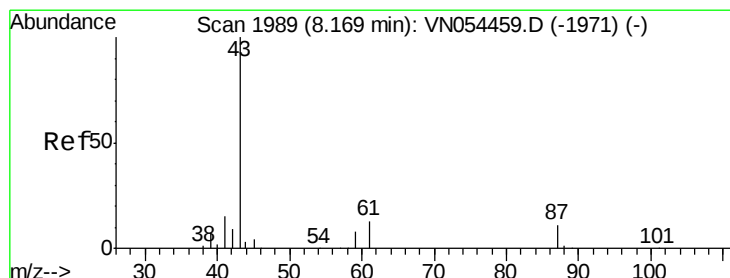
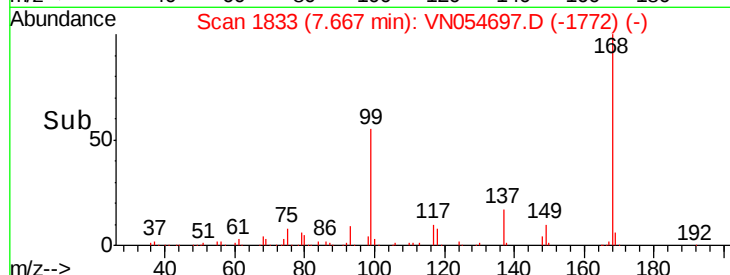
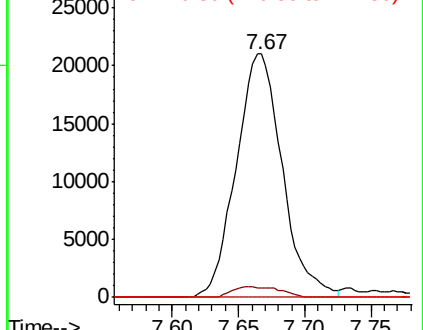
121 0.0 24.6 36.8#



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: 1.583 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

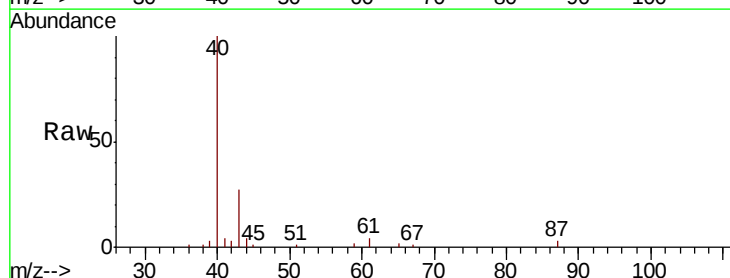
Tgt Ion: 43 Resp: 15682

Ion Ratio Lower Upper

43 100

61 18.5 15.8 23.8

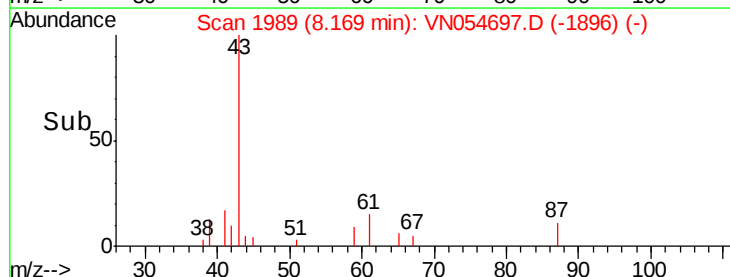
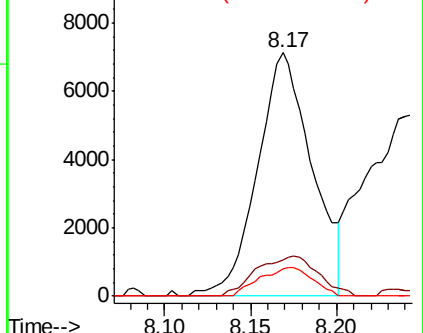
87 11.3 12.0 18.0#

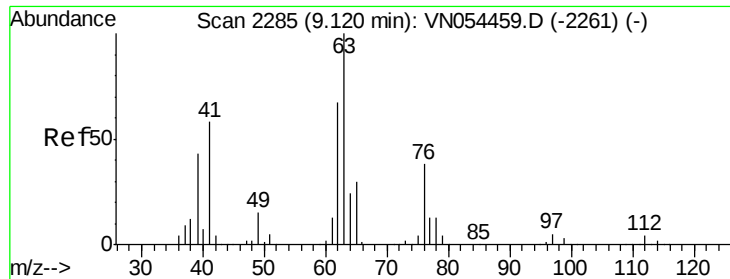


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.235 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

Instrument :

MSVOA_N

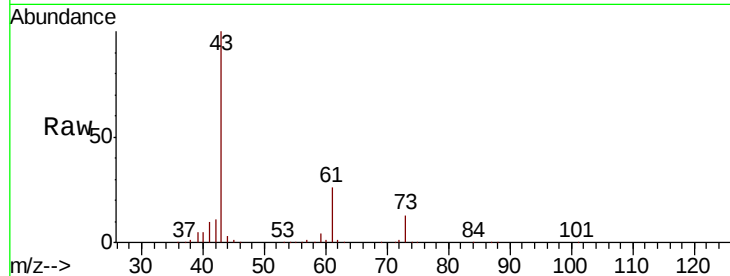
ClientSampled :

Tot Ion: 63 Resp: 1489

Ion Ratio Lower Upper

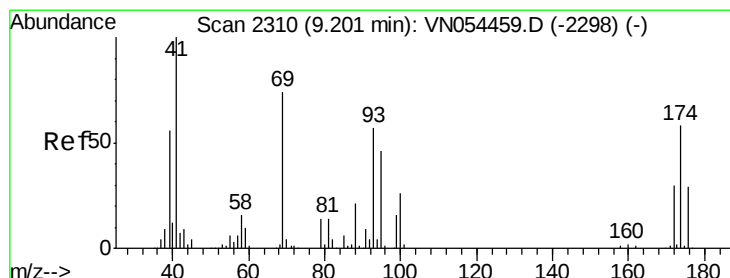
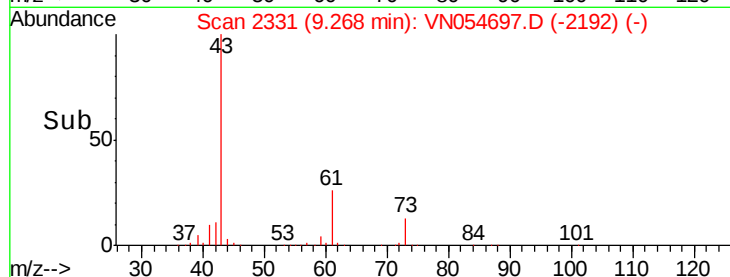
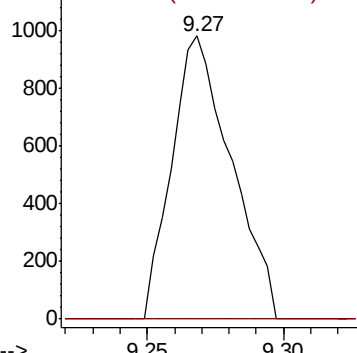
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.381 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

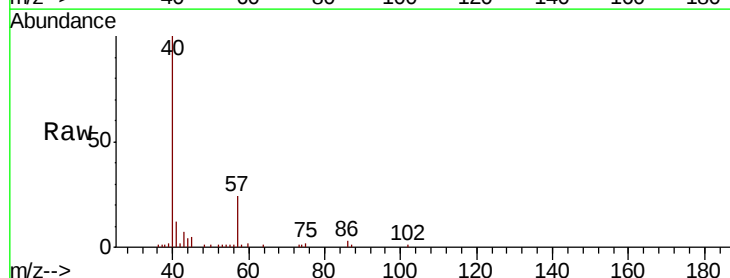
Tgt Ion: 41 Resp: 7422

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

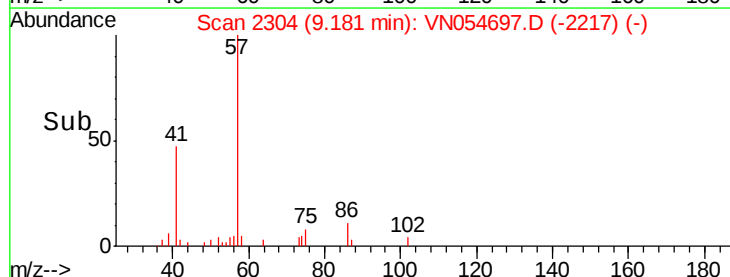
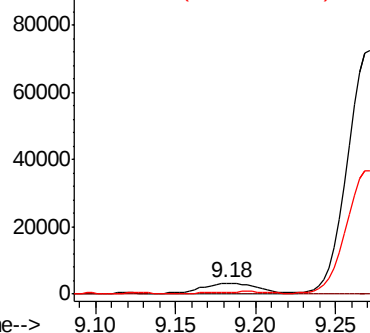
39 0.0 47.5 71.3#

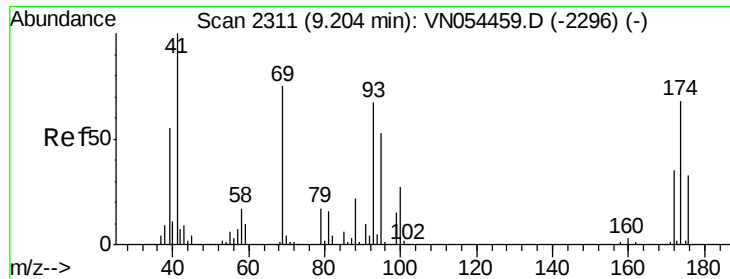


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 1.714 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.06 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

Instrument :
MSVOA_N
ClientSampled :

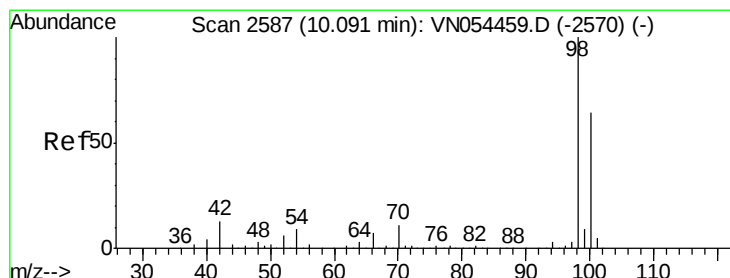
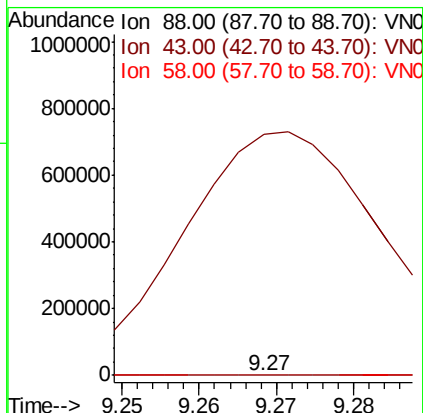
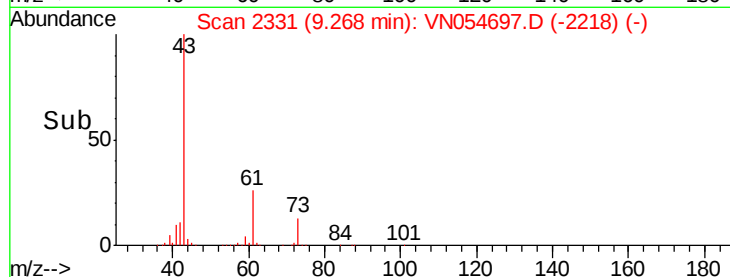
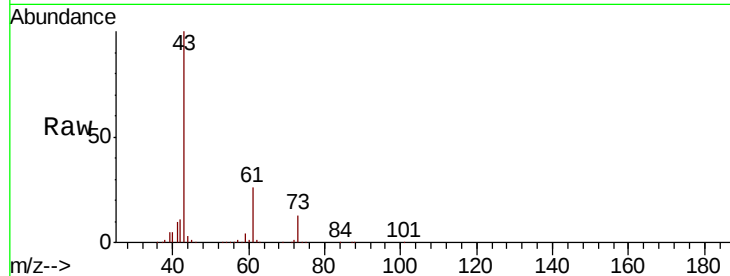
Tot Ion: 88 Resp: 103

Ion Ratio Lower Upper

88 100

43 1399857.3 24.1 36.1#

58 5614.6 50.8 76.2#



#50

Toluene-d8

Concen: 49.282 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054697.D

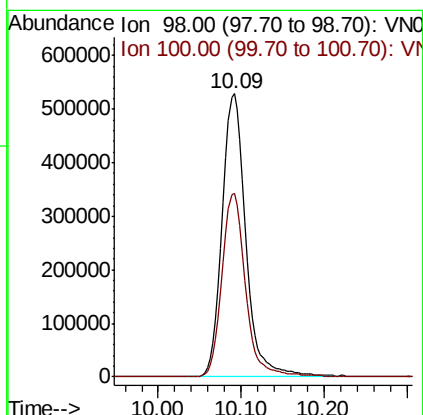
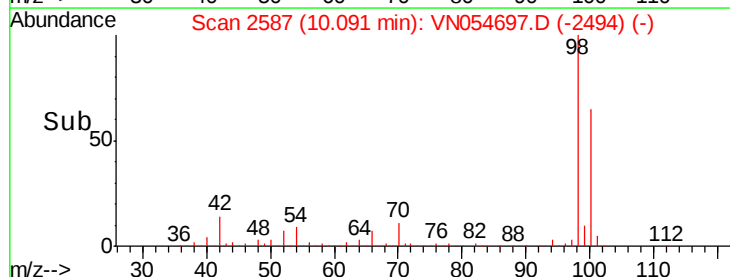
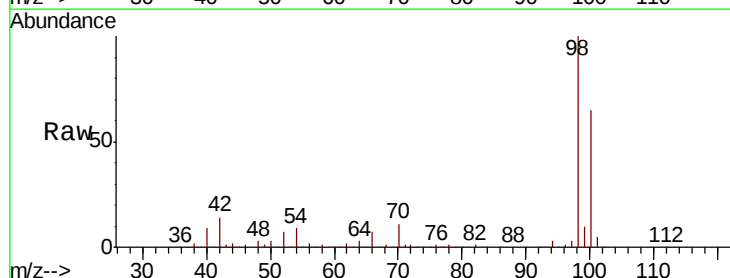
Acq: 26 Mar 2019 14:32

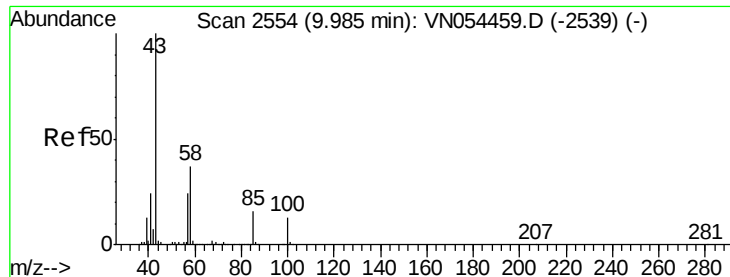
Tgt Ion: 98 Resp: 1052590

Ion Ratio Lower Upper

98 100

100 64.8 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.733 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

Instrument :

MSVOA_N

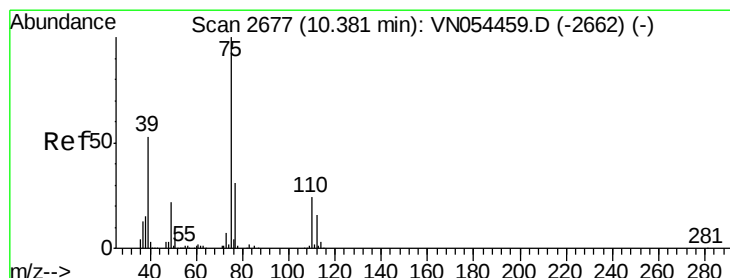
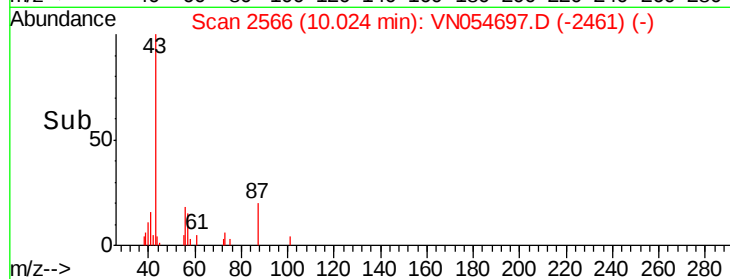
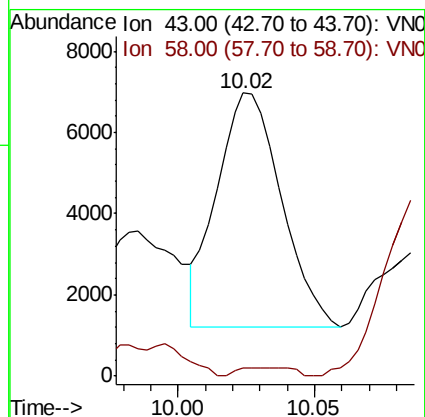
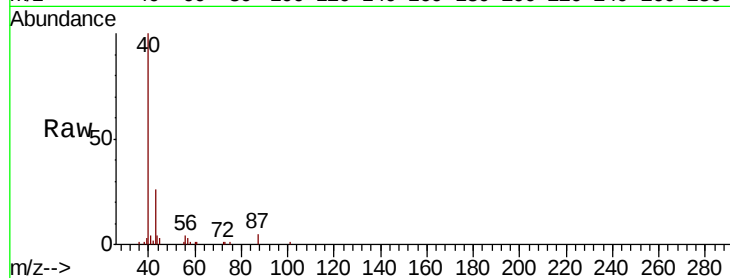
ClientSampled :

Tot Ion: 43 Resp: 9511

Ion Ratio Lower Upper

43 100

58 3.0 31.8 47.6#



#53

t-1,3-Dichloropropene

Concen: 2.239 ug/l

RT: 10.28 min Scan# 2647

Delta R.T. -0.10 min

Lab File: VN054697.D

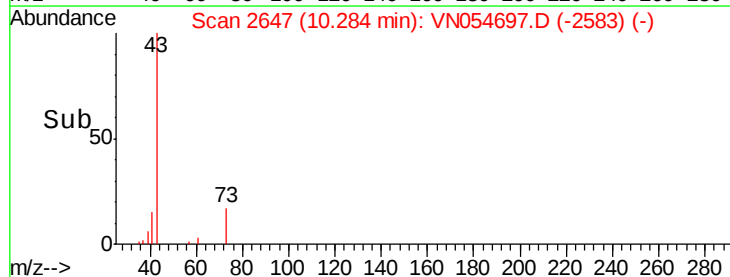
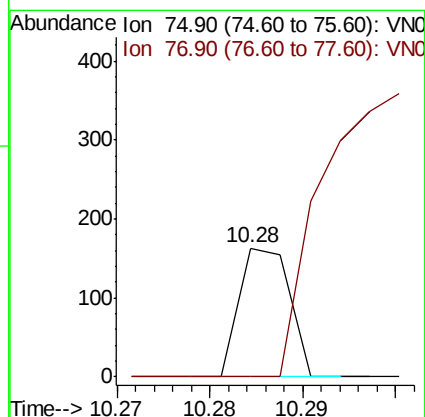
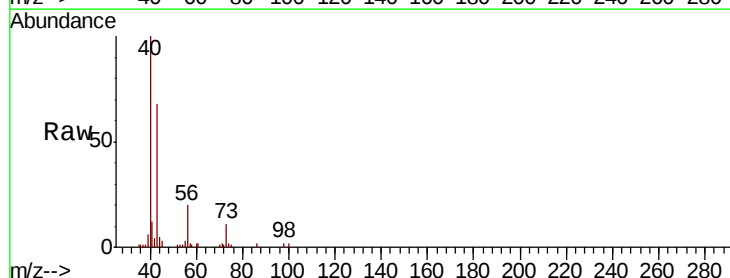
Acq: 26 Mar 2019 14:32

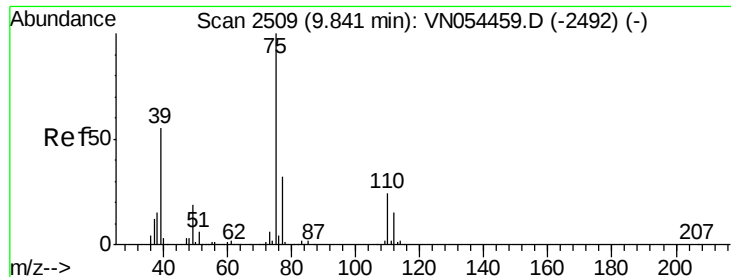
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#



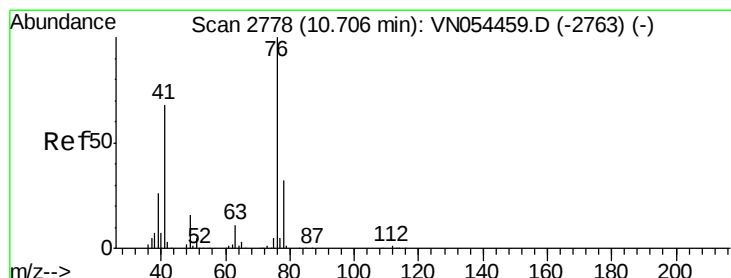
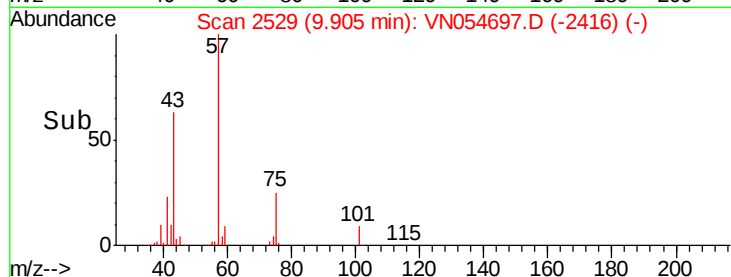
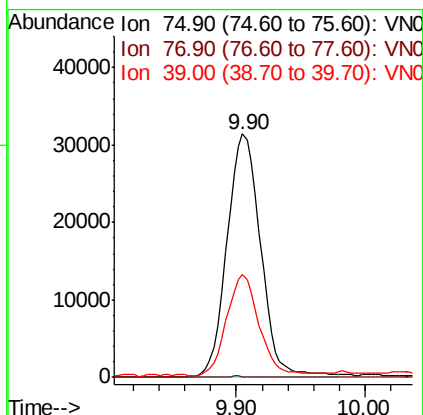
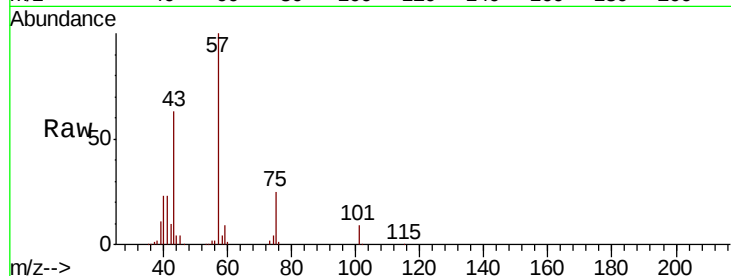


#54

cis-1,3-Dichloropropene
 Concen: 6.344 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054697.D
 Acq: 26 Mar 2019 14:32

Instrument :
 MSVOA_N
 ClientSampleId :

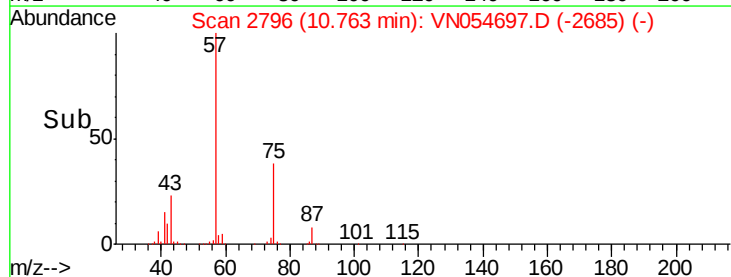
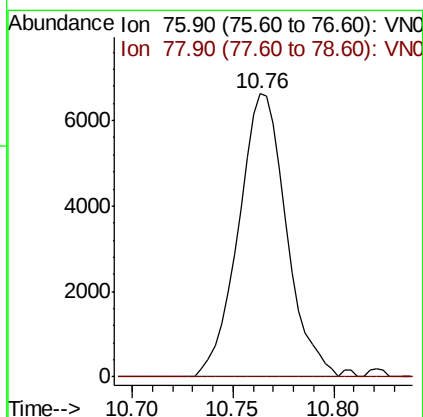
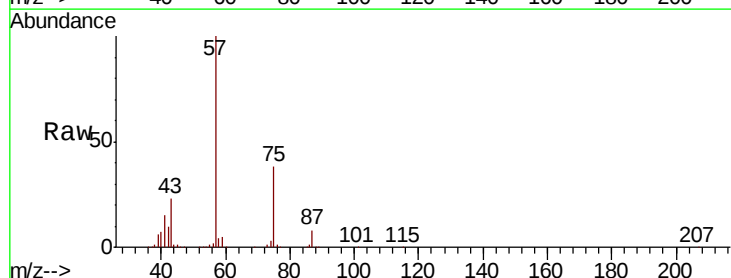
Tot Ion: 75 Resp: 57021
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 41.4 37.2 55.8

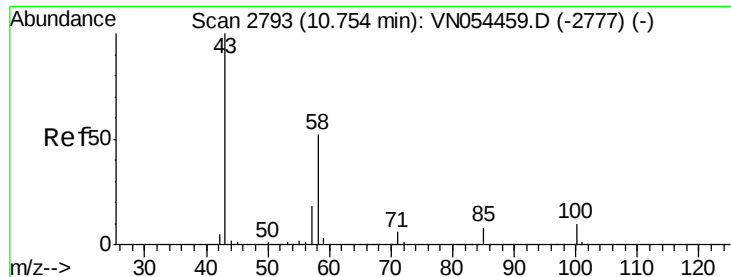


#57

1,3-Dichloropropane
 Concen: 1.215 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054697.D
 Acq: 26 Mar 2019 14:32

Tgt Ion: 76 Resp: 11012
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

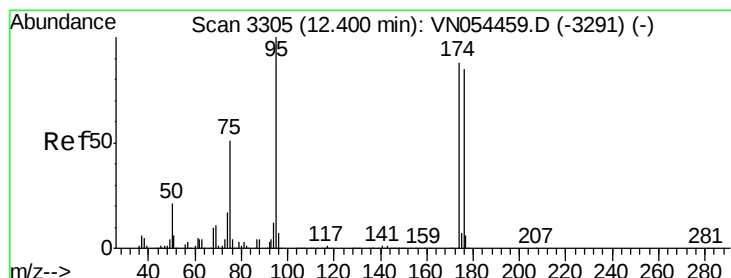
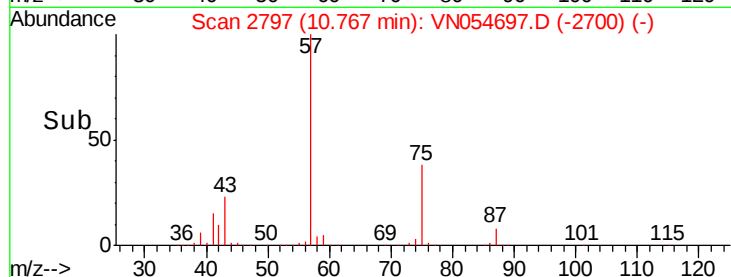
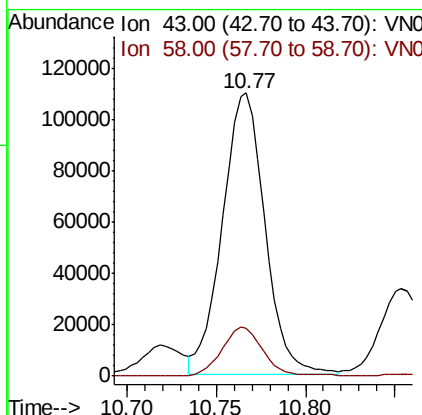
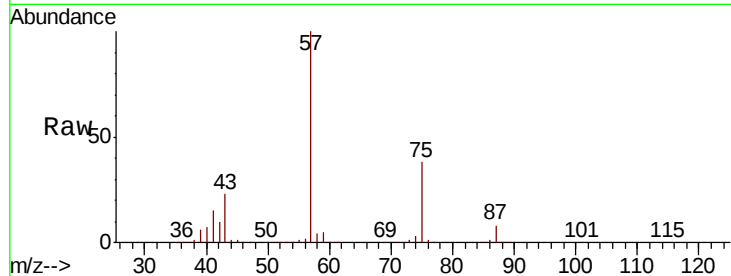




#59
2-Hexanone
Concen: 50.869 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054697.D
Acq: 26 Mar 2019 14:32

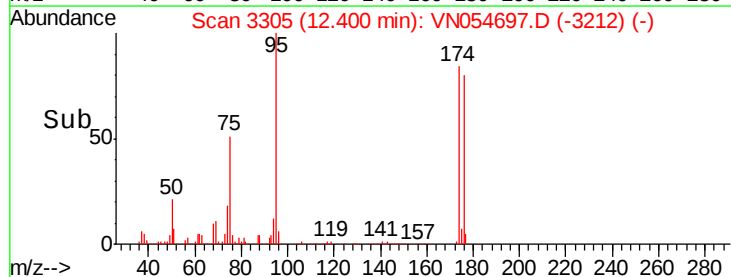
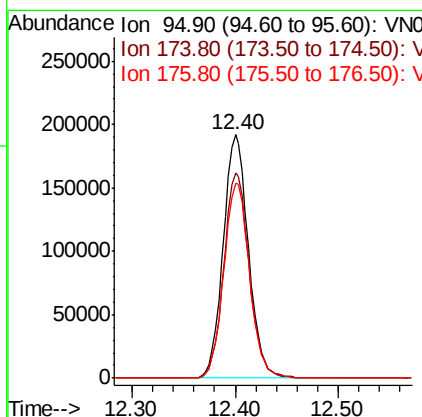
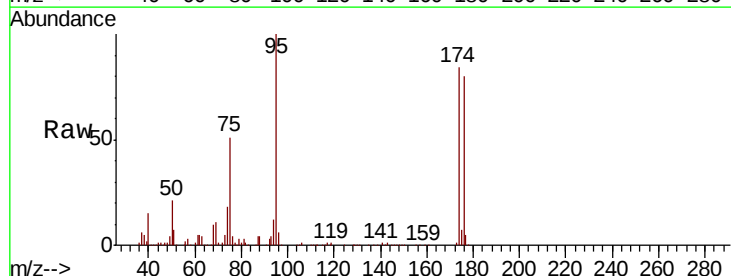
Instrument :
MSVOA_N
ClientSampleId :

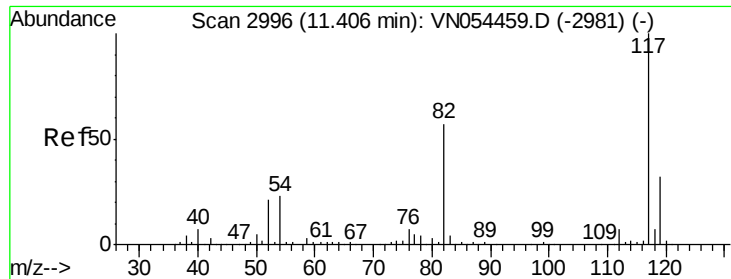
Tot Ion: 43 Resp: 182384
Ion Ratio Lower Upper
43 100
58 17.2 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.968 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054697.D
Acq: 26 Mar 2019 14:32

Tgt Ion: 95 Resp: 326826
Ion Ratio Lower Upper
95 100
174 84.8 0.0 191.0
176 81.8 0.0 187.4

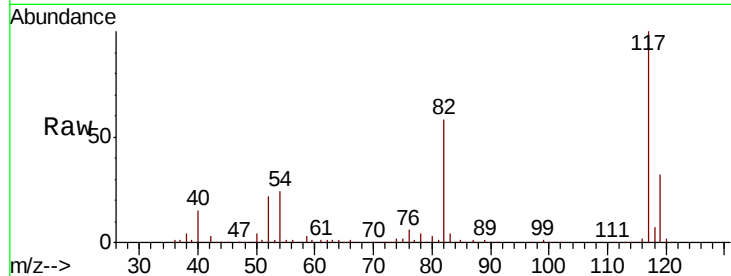




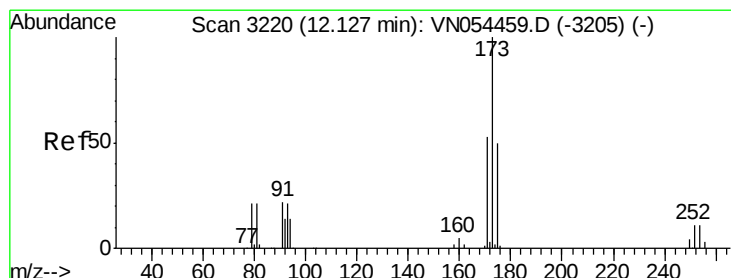
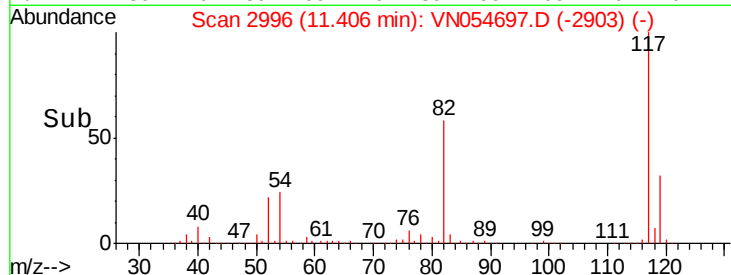
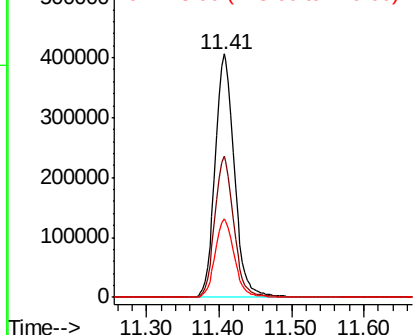
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054697.D
Acq: 26 Mar 2019 14:32

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 746326
Ion Ratio Lower Upper
117 100
82 57.9 40.0 60.0
119 32.1 25.8 38.6

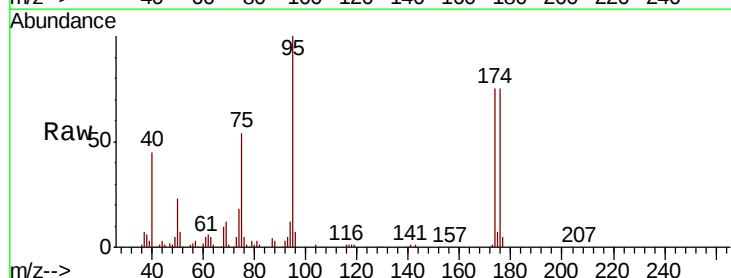


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

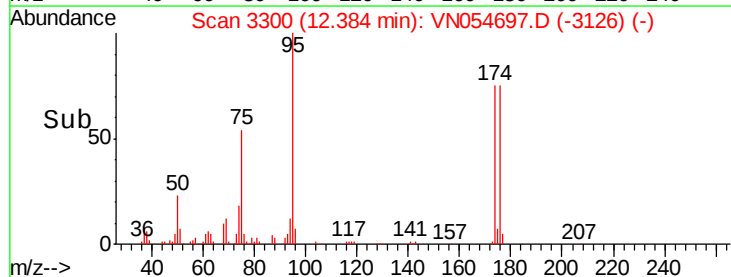
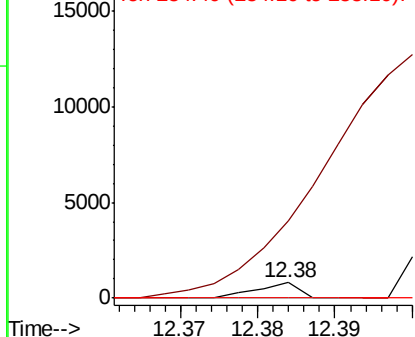


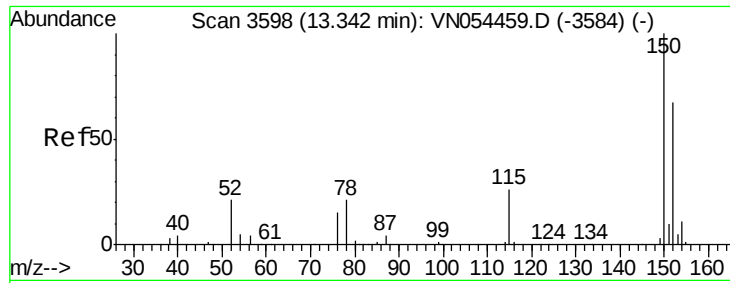
#71
Bromoform
Concen: 2.298 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN054697.D
Acq: 26 Mar 2019 14:32

Tgt Ion:173 Resp: 304
Ion Ratio Lower Upper
173 100
175 0.0 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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

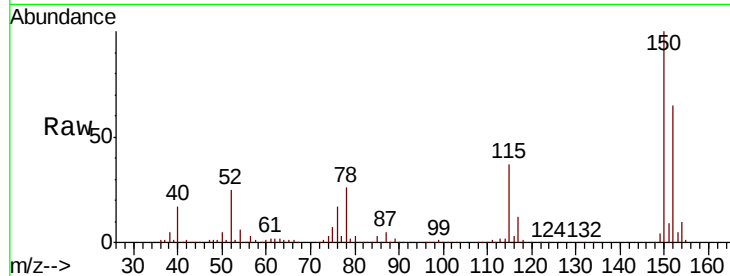
Tot Ion:152 Resp: 277048

Ion Ratio Lower Upper

152 100

115 57.4 27.2 81.6

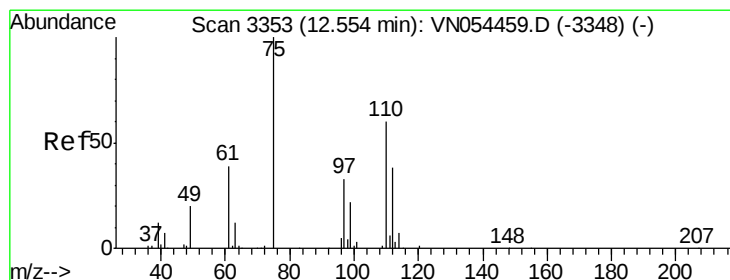
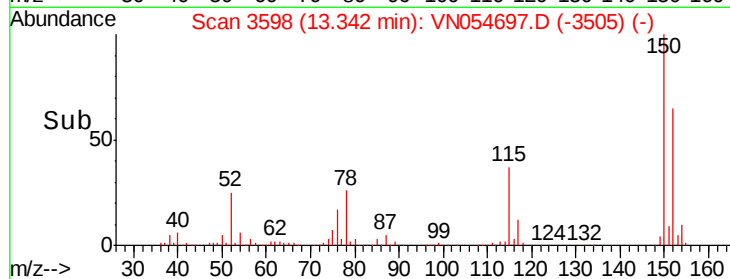
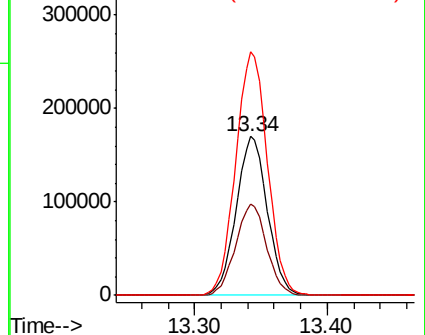
150 156.1 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 38.108 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054697.D

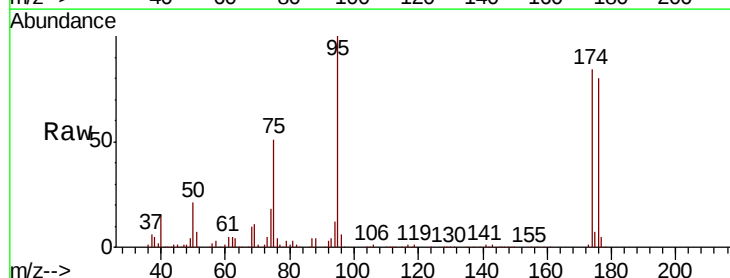
Acq: 26 Mar 2019 14:32

Tgt Ion: 75 Resp: 167535

Ion Ratio Lower Upper

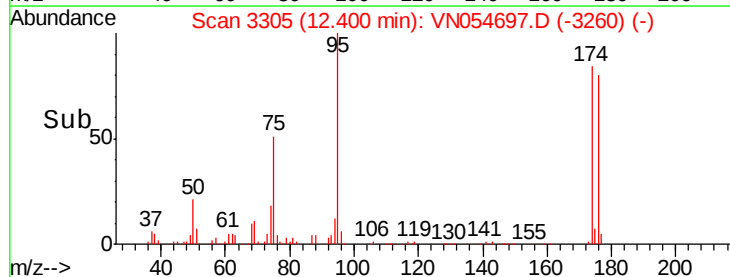
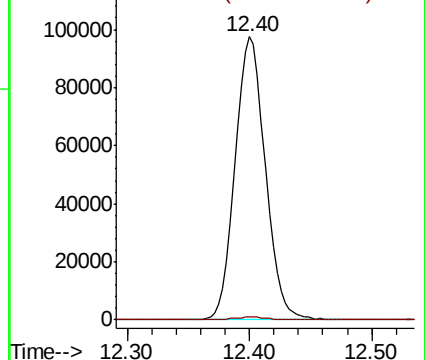
75 100

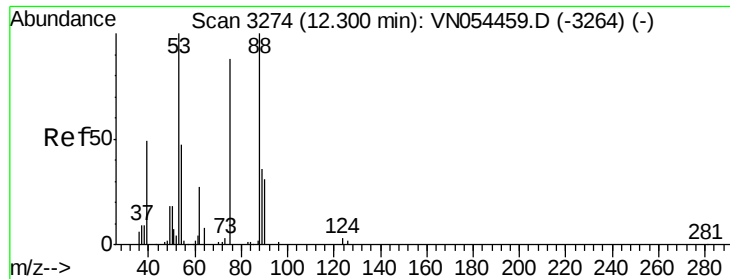
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 126.210 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054697.D

Acq: 26 Mar 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

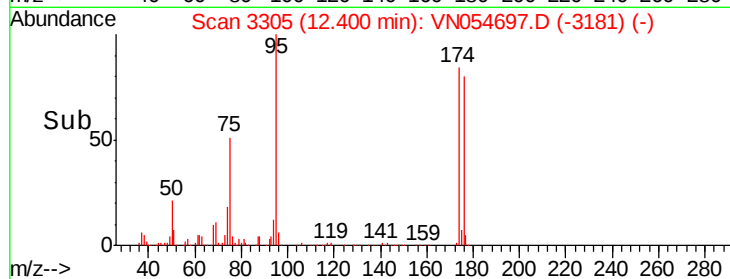
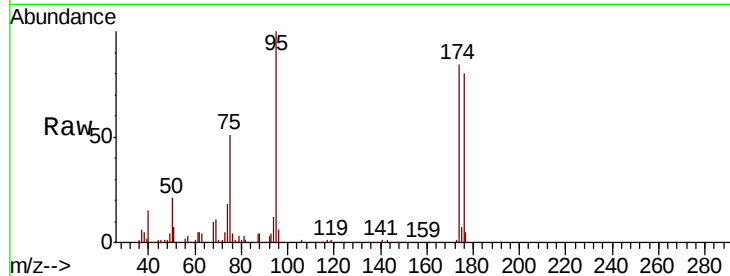
Tot Ion: 75 Resp: 167535

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

