

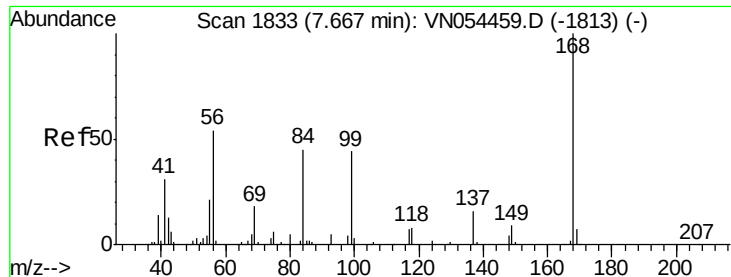
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032519\
 Data File : VN054680.D
 Acq On : 25 Mar 2019 18:31
 Operator : JC/SP
 Sample : K2058-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S3B(15)

Quant Time: Mar 26 01:28:35 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	575152	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	937348	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	768897	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	277258	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	380967	53.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.50%	
35) Dibromofluoromethane	7.59	113	296572	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
50) Toluene-d8	10.09	98	1105174	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
62) 4-Bromofluorobenzene	12.40	95	331534	42.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.84%	
Target Compounds				Qvalue		
16) Acetone	3.83	43	10023	4.660	ug/l	91
18) Methyl Acetate	4.34	43	2347	0.490	ug/l #	61
20) Methylene Chloride	4.55	84	26279	4.145	ug/l #	90
25) 2-Butanone	6.87	43	1777	0.645	ug/l	93
29) Tetrahydrofuran	7.23	42	1761	0.985	ug/l #	31
31) Cyclohexane	7.66	56	11987	Below Cal	#	16
36) 1,1-Dichloropropene	7.66	75	44289	5.053	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55296	6.492	ug/l #	16
43) Isopropyl Acetate	8.17	43	14748	1.401	ug/l #	95
48) Methyl methacrylate	9.18	41	7244	1.268	ug/l #	11
49) 1,4-Dioxane	9.26	88	66	1.033	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	10155	1.741	ug/l #	36
53) t-1,3-Dichloropropene	10.09	75	274	2.262	ug/l #	78
54) cis-1,3-Dichloropropene	9.90	75	51303	5.370	ug/l #	68
57) 1,3-Dichloropropane	10.77	76	9978	1.036	ug/l #	43
59) 2-Hexanone	10.77	43	166225	43.618	ug/l #	46
71) Bromoform	12.40	173	1406	2.568	ug/l #	1
74) N-amyl acetate	11.88	43	15639	2.434	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	175693	39.933	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	175693	132.103	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: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampled :

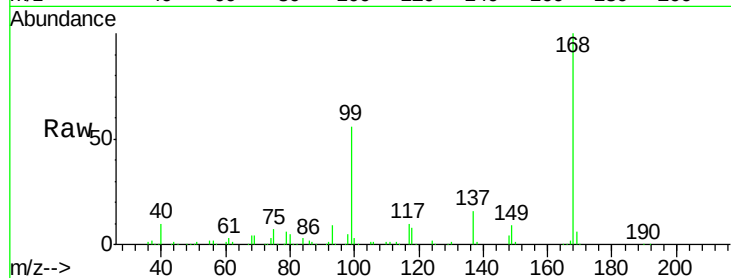
S3B(15)

Tot Ion:168 Resp: 575152

Ion Ratio Lower Upper

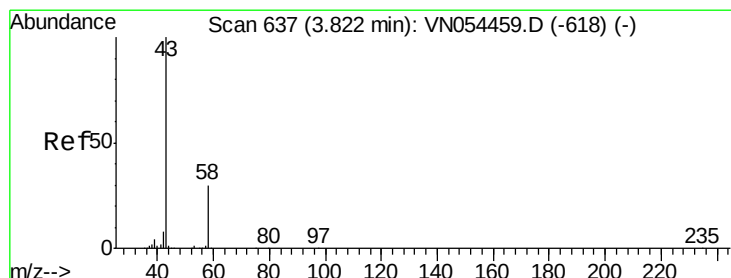
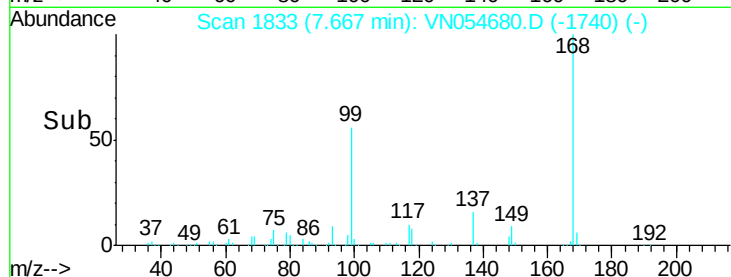
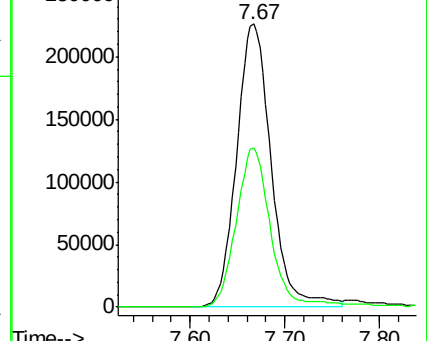
168 100

99 56.3 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 4.660 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054680.D

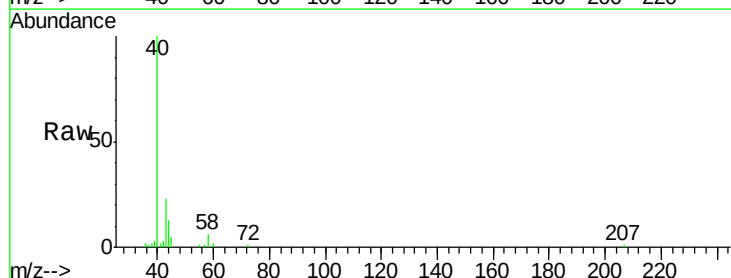
Acq: 25 Mar 2019 18:31

Tgt Ion: 43 Resp: 10023

Ion Ratio Lower Upper

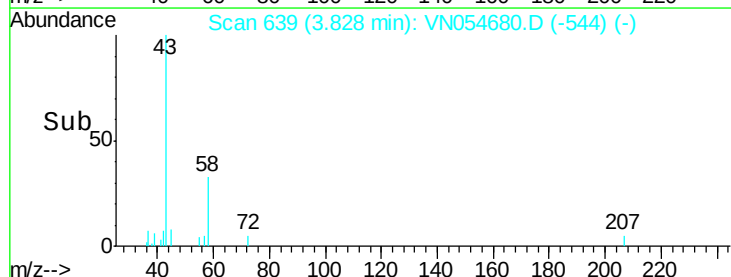
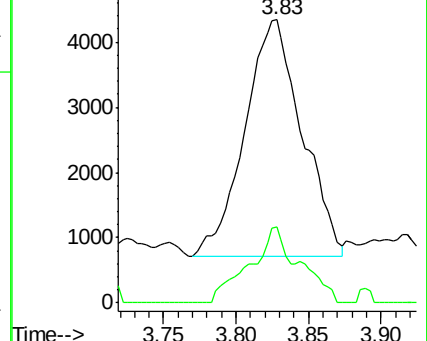
43 100

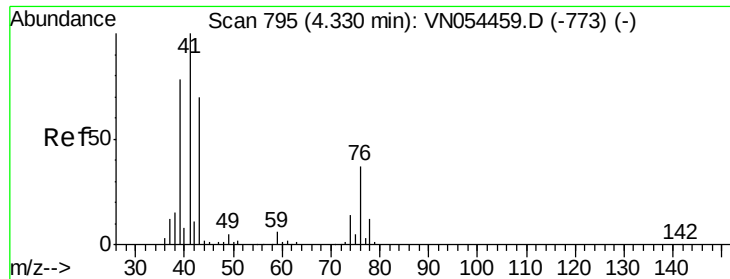
58 32.2 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

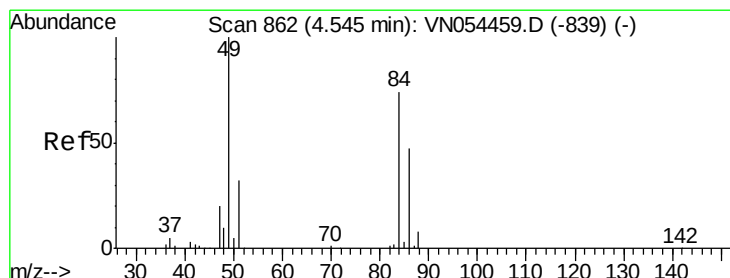
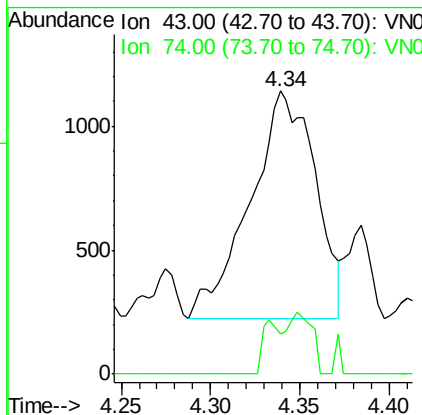
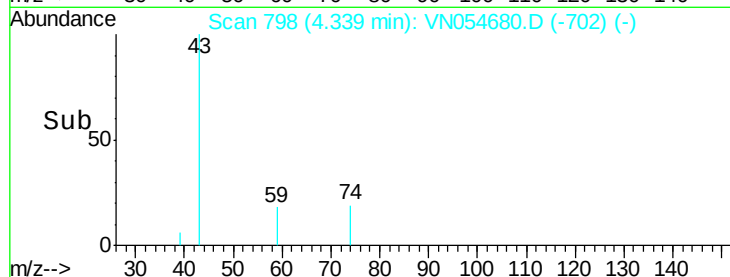
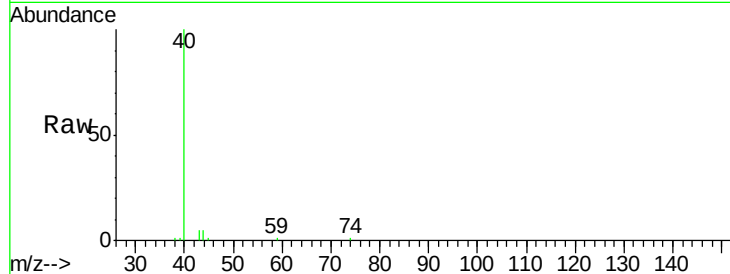




#18
Methyl Acetate
Concen: 0.490 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054680.D
Acq: 25 Mar 2019 18:31

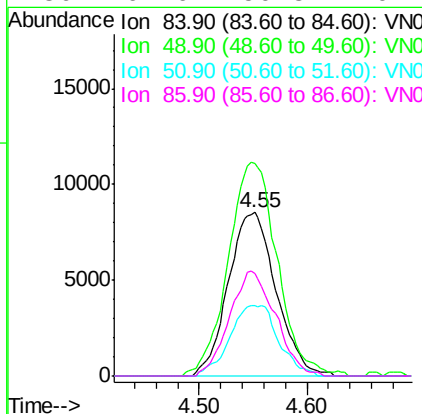
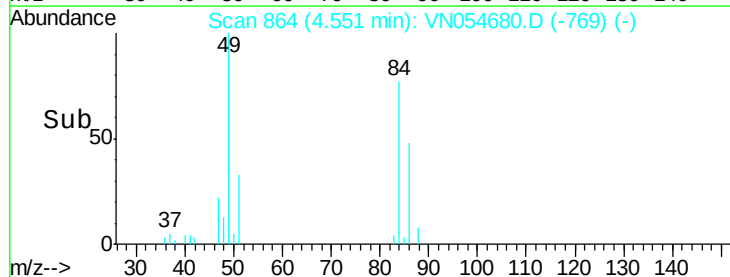
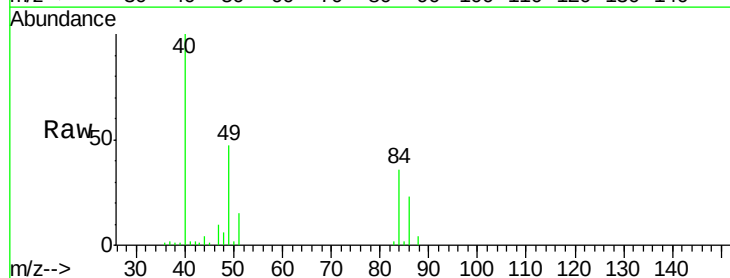
Instrument :
MSVOA_N
ClientSampleId :
S3B(15)

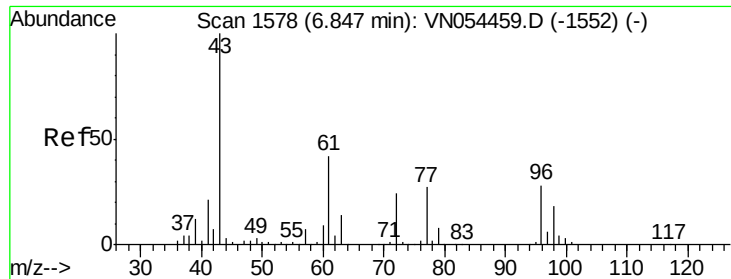
Tot Ion: 43 Resp: 2347
Ion Ratio Lower Upper
43 100
74 6.3 20.8 31.2#



#20
Methylene Chloride
Concen: 4.145 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054680.D
Acq: 25 Mar 2019 18:31

Tgt Ion: 84 Resp: 26279
Ion Ratio Lower Upper
84 100
49 126.9 89.7 134.5
51 42.7 28.2 42.4#
86 62.6 50.8 76.2





#25

2-Butanone

Concen: 0.645 ug/l

RT: 6.87 min Scan# 1585

Delta R.T. 0.02 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampled :

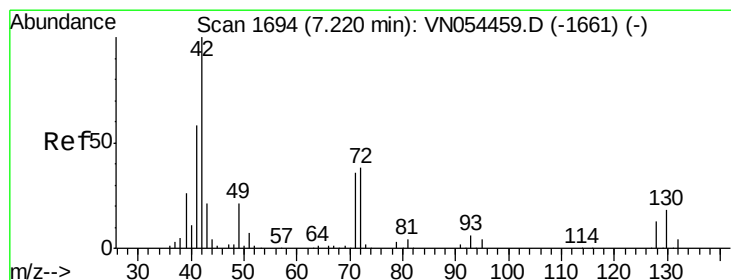
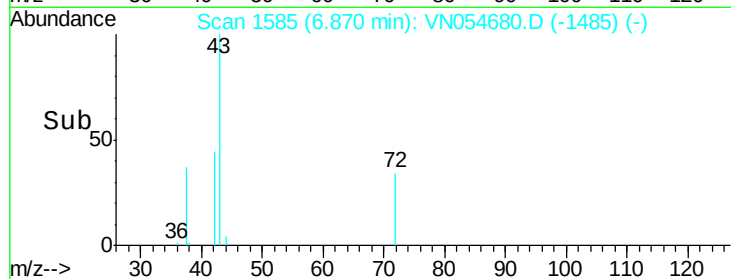
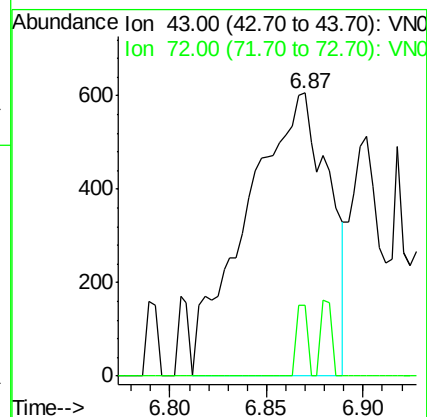
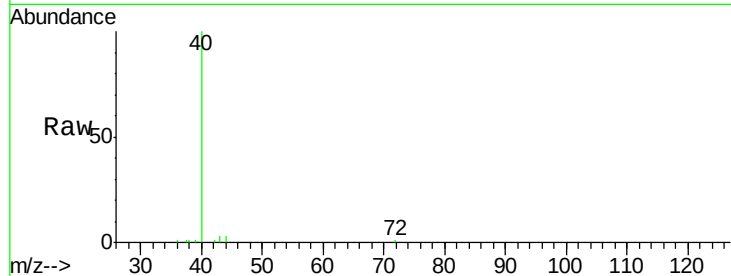
S3B(15)

Tot Ion: 43 Resp: 1777

Ion Ratio Lower Upper

43 100

72 25.2 23.0 34.6



#29

Tetrahydrofuran

Concen: 0.985 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

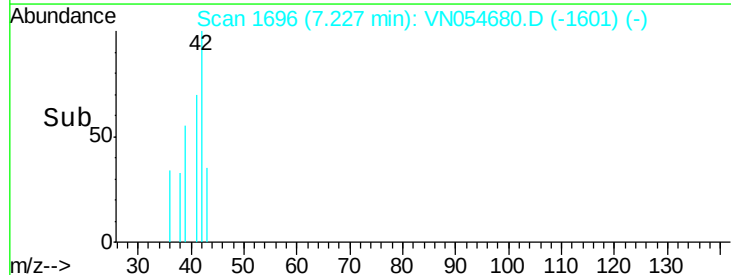
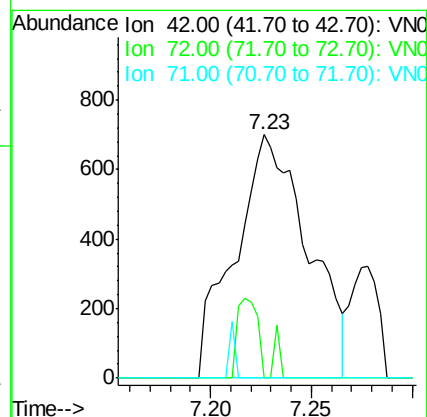
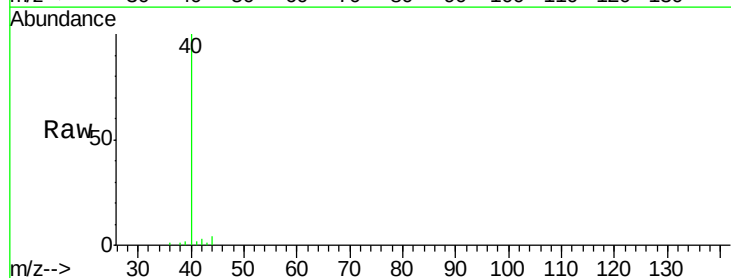
Tgt Ion: 42 Resp: 1761

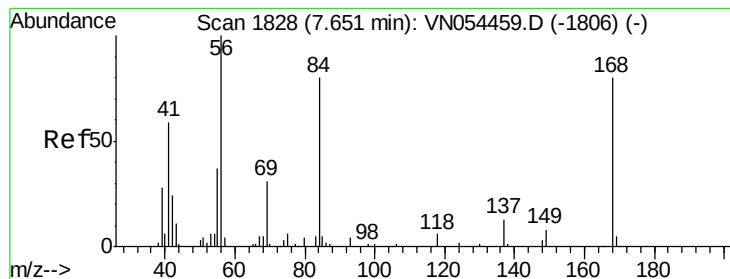
Ion Ratio Lower Upper

42 100

72 1.6 37.8 56.6#

71 0.0 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampleId :

S3B(15)

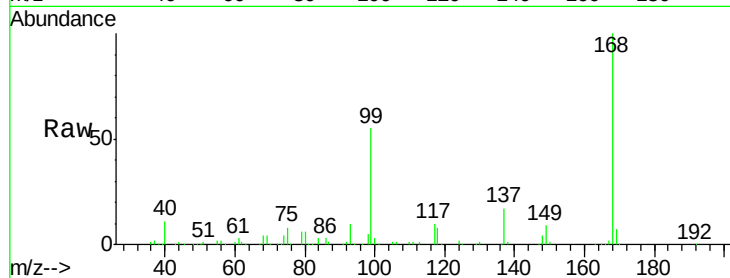
Tot Ion: 56 Resp: 11987

Ion Ratio Lower Upper

56 100

69 162.9 27.8 41.6#

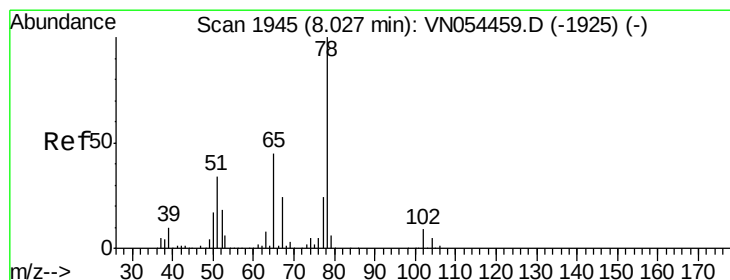
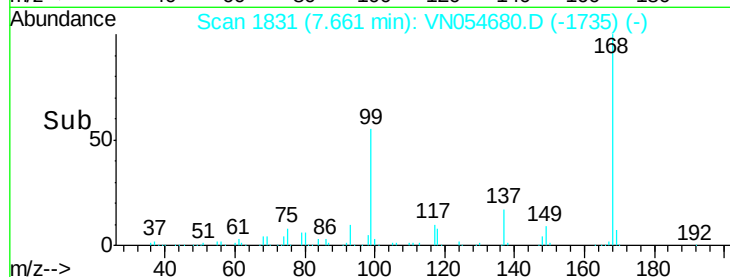
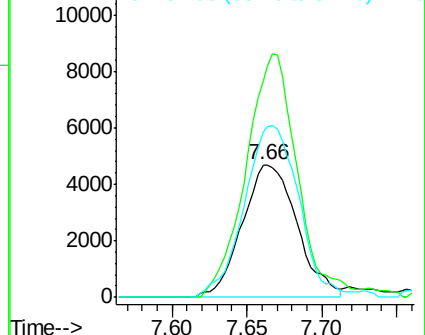
84 125.1 74.6 111.8#



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: 53.253 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054680.D

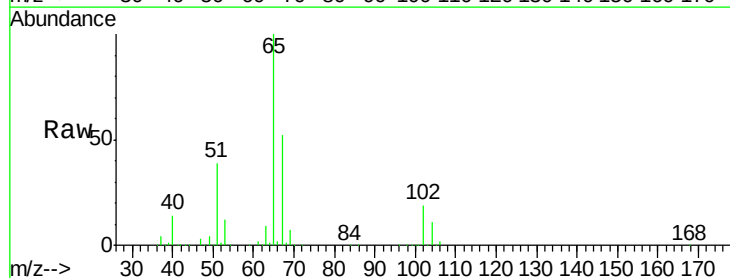
Acq: 25 Mar 2019 18:31

Tgt Ion: 65 Resp: 380967

Ion Ratio Lower Upper

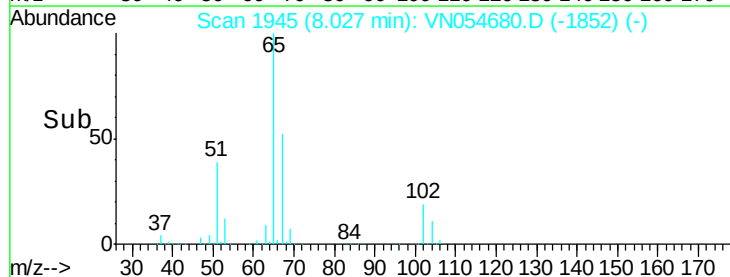
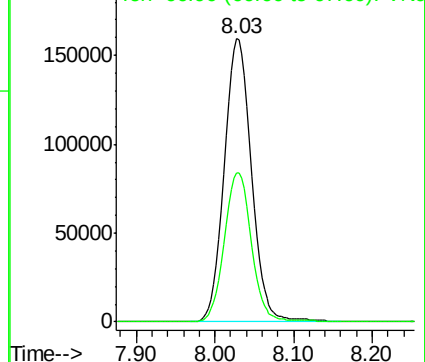
65 100

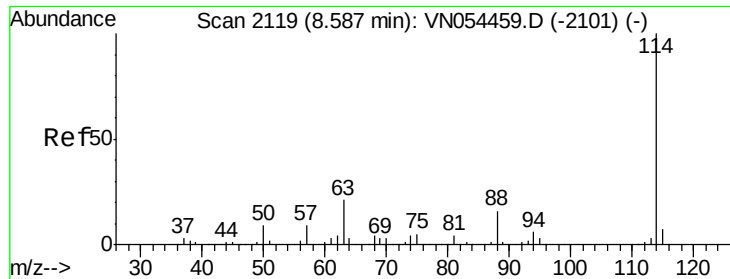
67 52.4 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampled :

S3B(15)

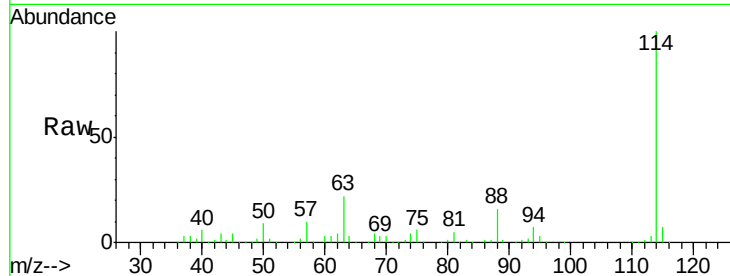
Tot Ion:114 Resp: 937348

Ion Ratio Lower Upper

114 100

63 21.9 0.0 35.2

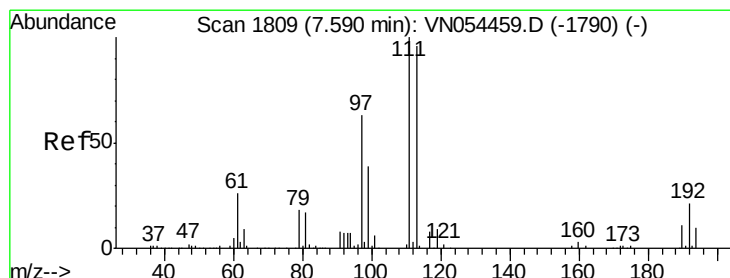
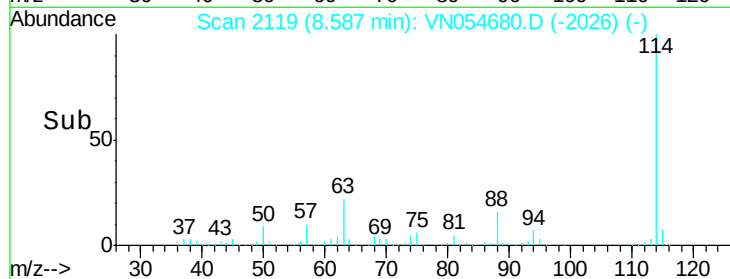
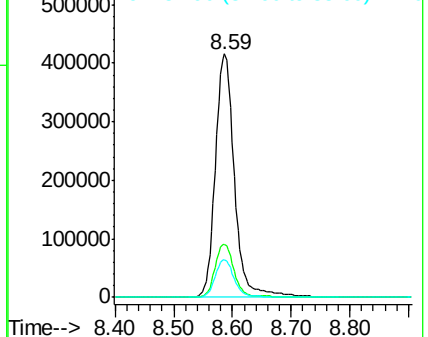
88 15.6 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.111 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

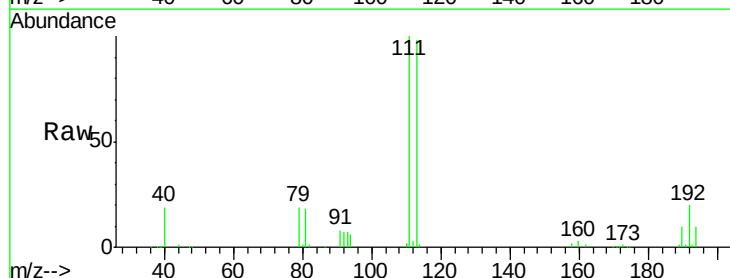
Tgt Ion:113 Resp: 296572

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

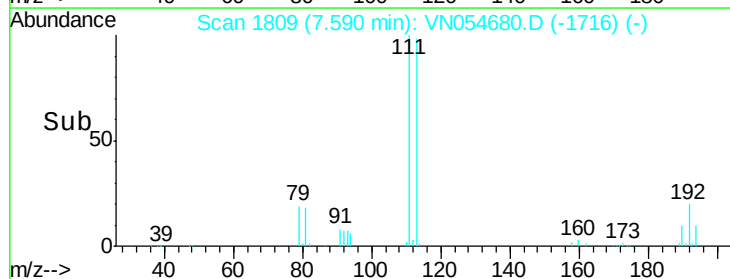
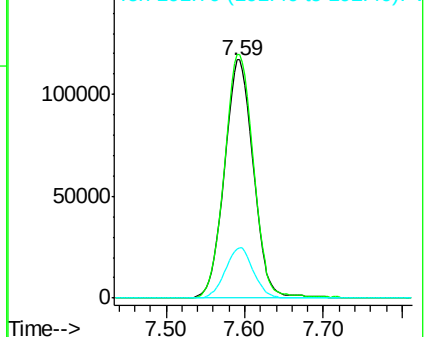
192 20.5 19.2 28.8

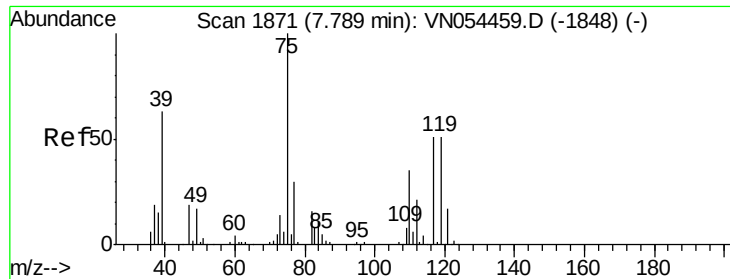


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

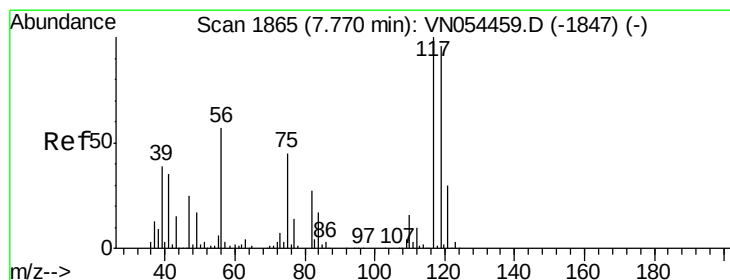
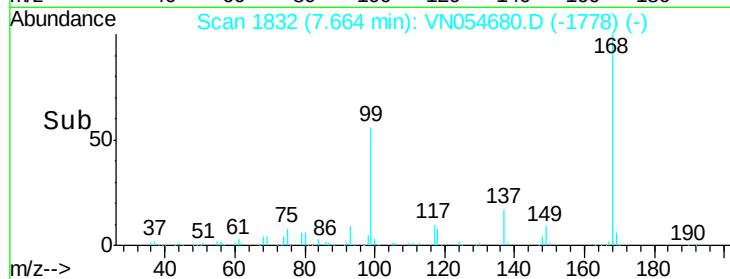
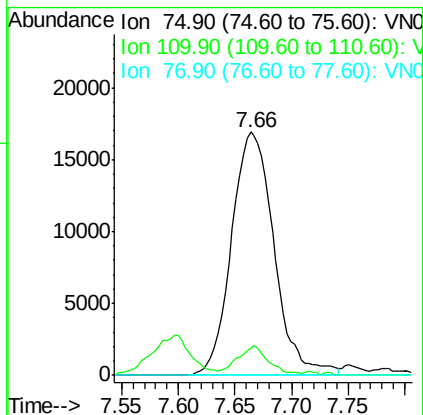
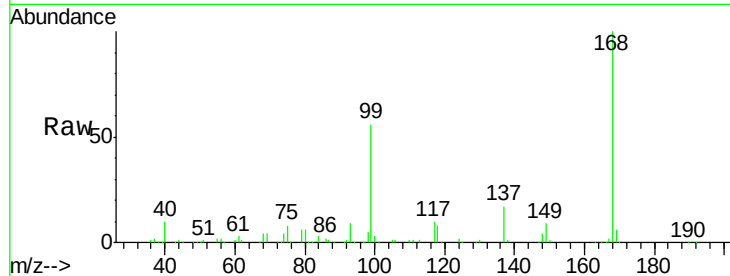




#36
 1,1-Dichloropropene
 Concen: 5.053 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054680.D
 Acq: 25 Mar 2019 18:31

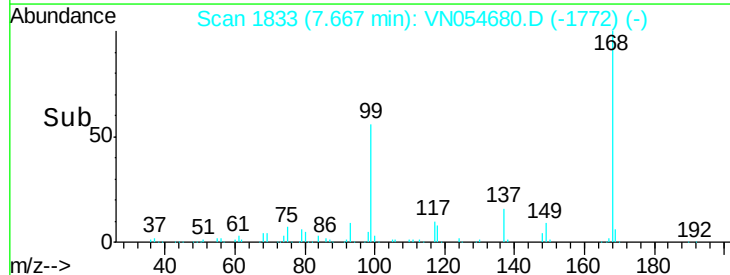
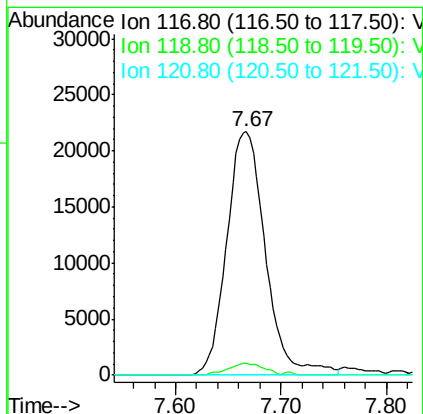
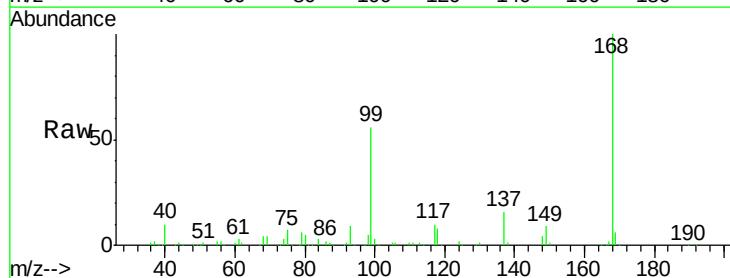
Instrument :
 MSVOA_N
 ClientSampleId :
 S3B(15)

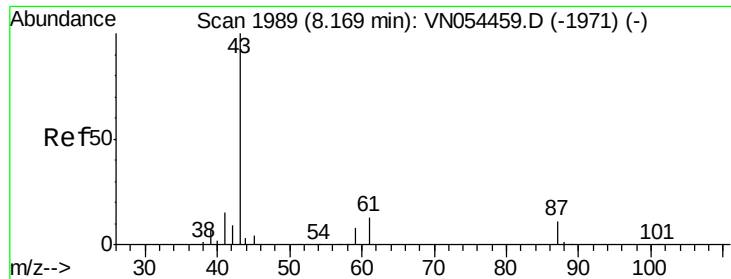
Tot Ion: 75 Resp: 44289
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.492 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN054680.D
 Acq: 25 Mar 2019 18:31

Tgt Ion: 117 Resp: 55296
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 1.401 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampled :

S3B(15)

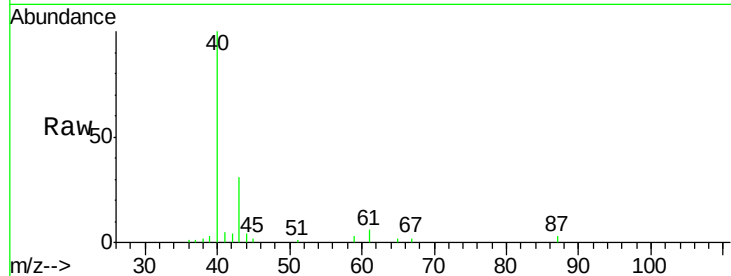
Tot Ion: 43 Resp: 14748

Ion Ratio Lower Upper

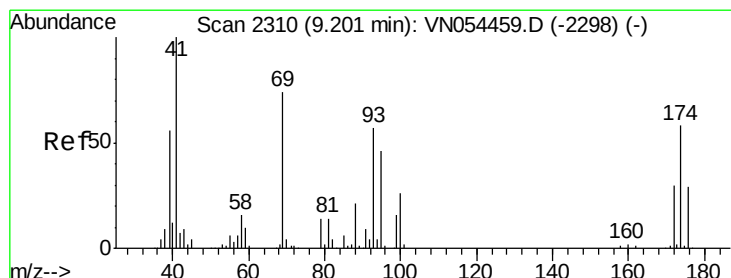
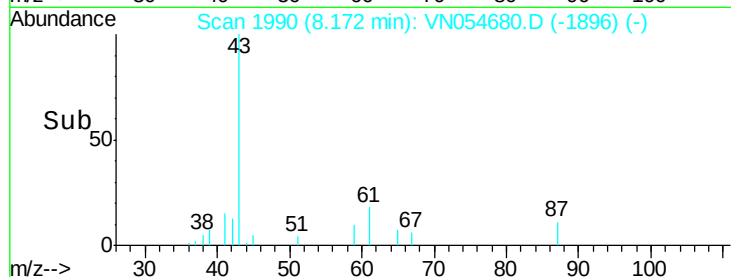
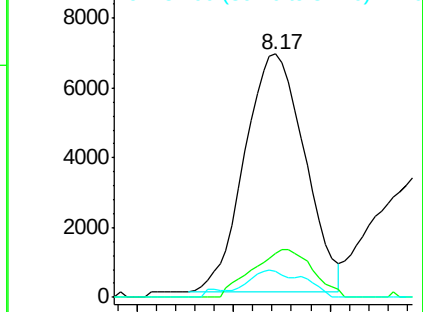
43 100

61 20.0 15.8 23.8

87 10.6 12.0 18.0#



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



#48

Methyl methacrylate

Concen: 1.268 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

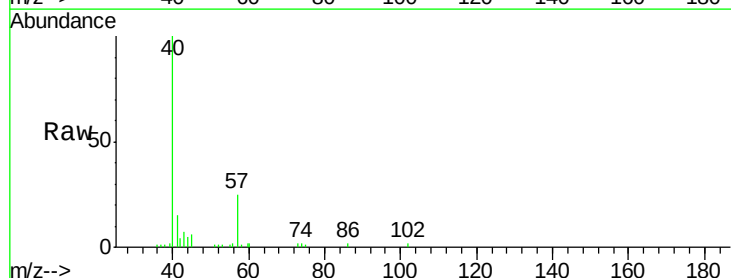
Tgt Ion: 41 Resp: 7244

Ion Ratio Lower Upper

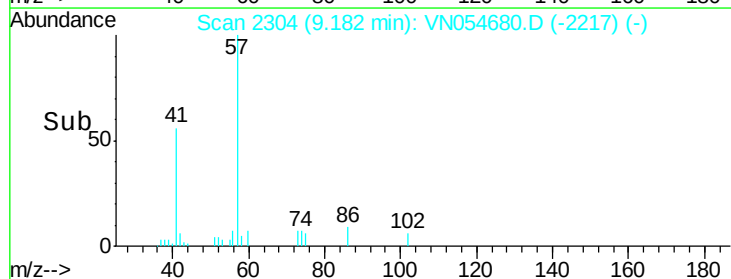
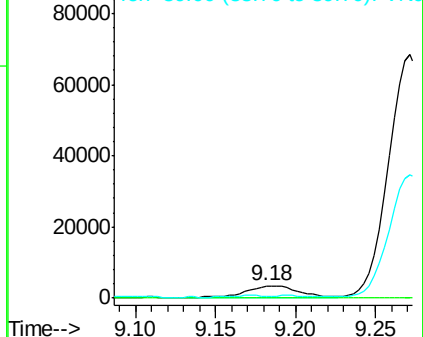
41 100

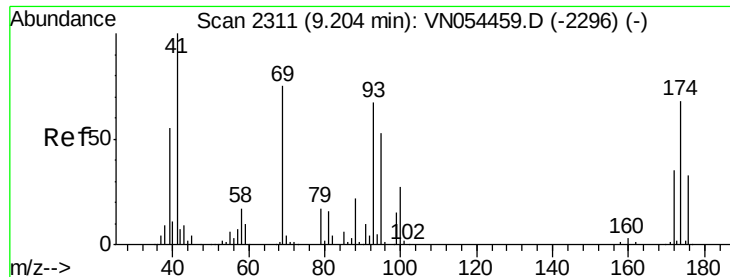
69 0.0 72.6 108.8#

39 0.0 47.5 71.3#



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





#49

1,4-Dioxane

Concen: 1.033 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.05 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampleId :

S3B(15)

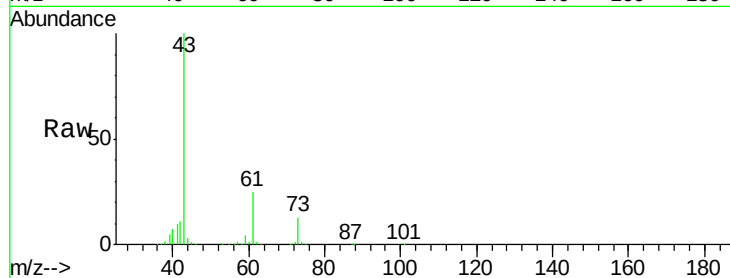
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 2082081.8 24.1 36.1#

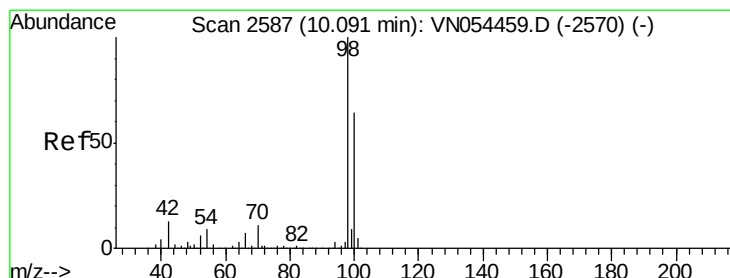
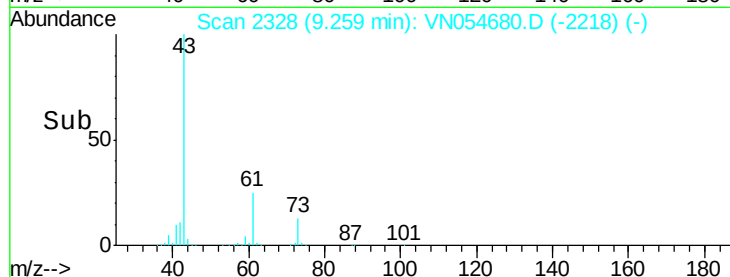
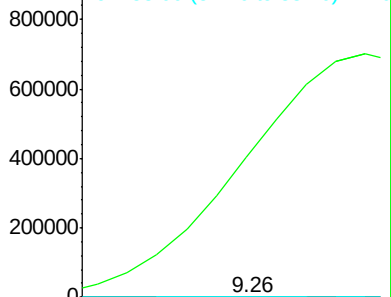
58 8004.5 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.681 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054680.D

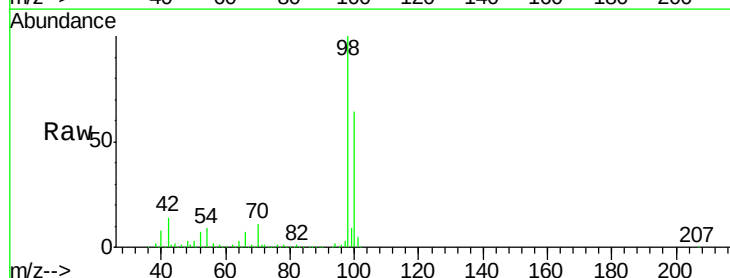
Acq: 25 Mar 2019 18:31

Tgt Ion: 98 Resp: 1105174

Ion Ratio Lower Upper

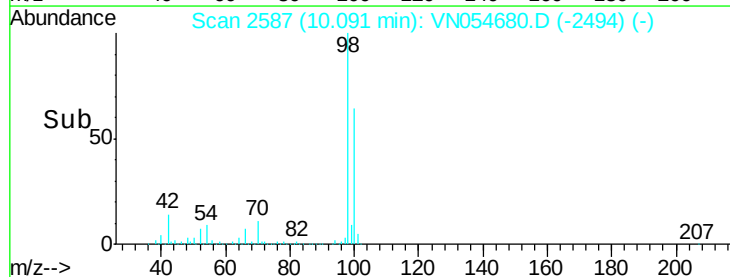
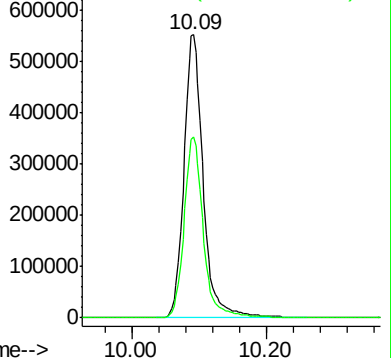
98 100

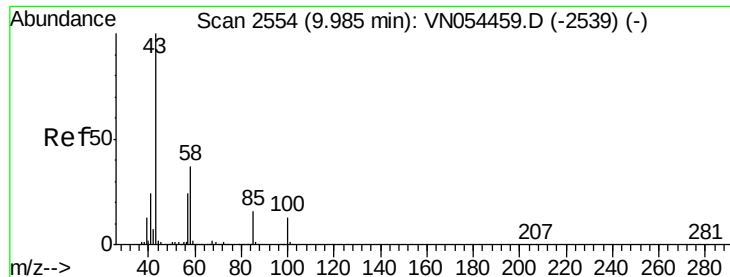
100 63.8 51.2 76.8



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: 1.741 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampled :

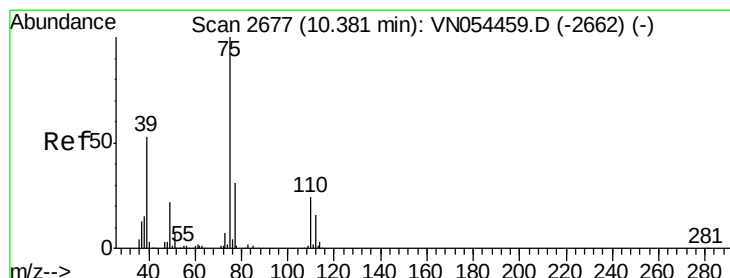
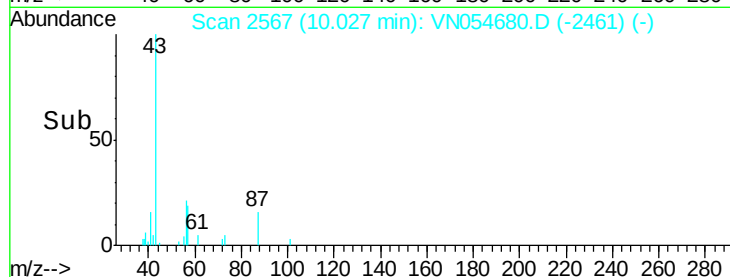
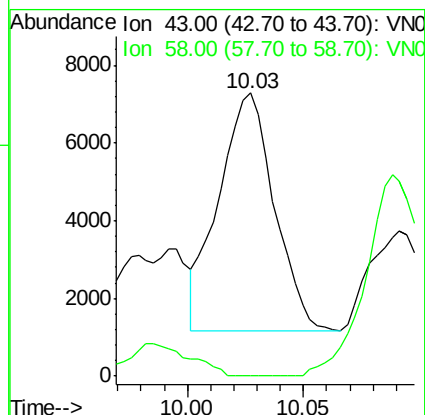
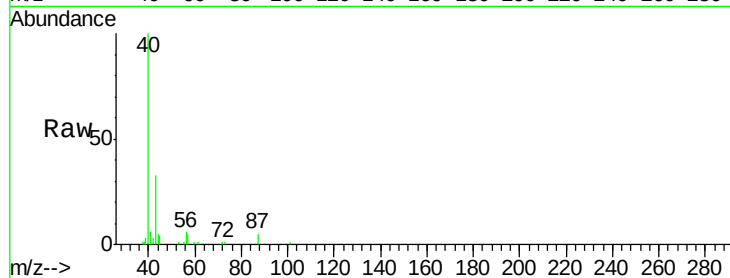
S3B(15)

Tot Ion: 43 Resp: 10155

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#53

t-1,3-Dichloropropene

Concen: 2.262 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.29 min

Lab File: VN054680.D

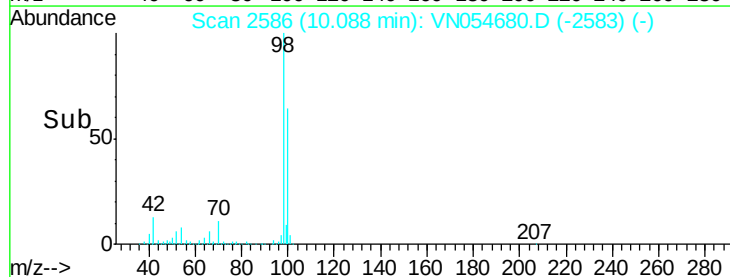
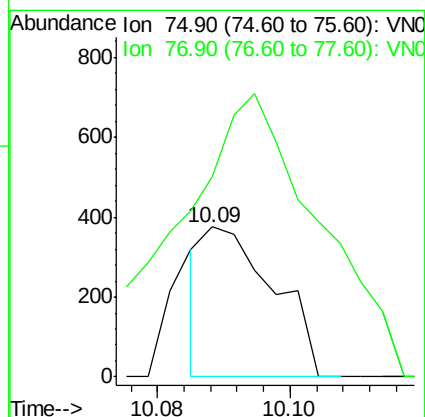
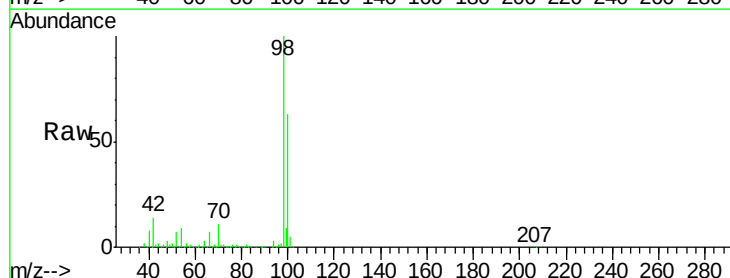
Acq: 25 Mar 2019 18:31

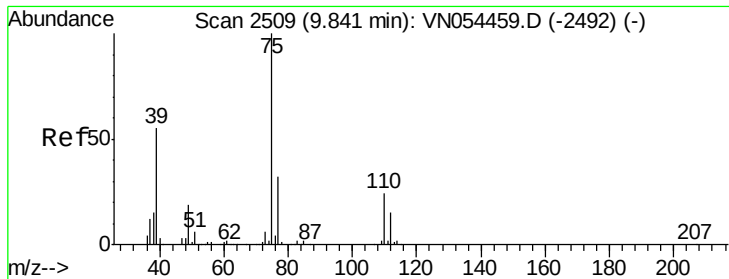
Tgt Ion: 75 Resp: 274

Ion Ratio Lower Upper

75 100

77 44.8 25.8 38.8#





#54

cis-1,3-Dichloropropene

Concen: 5.370 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampleId :

S3B(15)

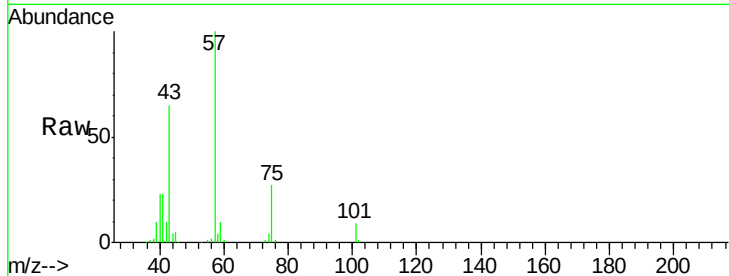
Tot Ion: 75 Resp: 51303

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

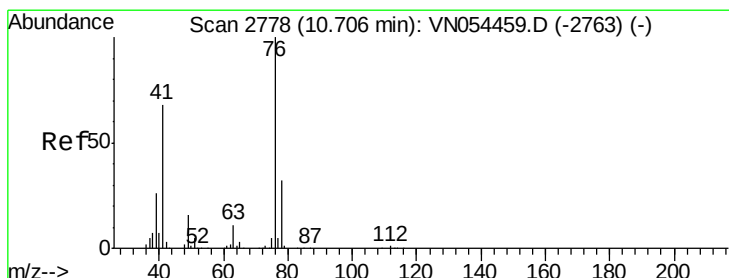
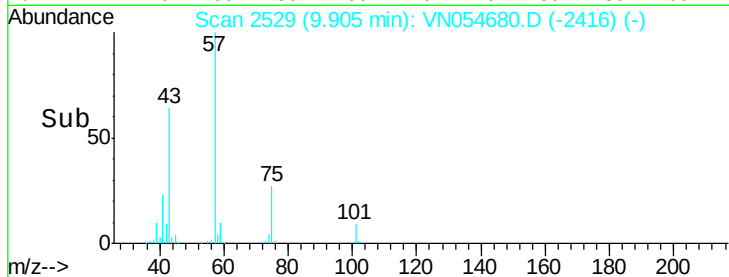
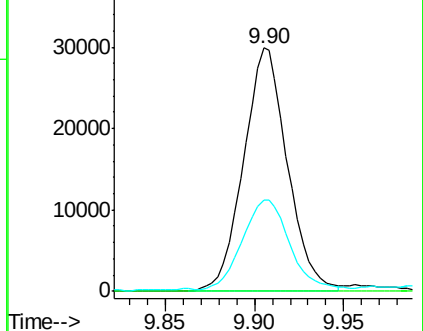
39 36.7 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-2492) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-2492) (-)

Ion 39.00 (38.70 to 39.30): VN054459.D (-2492) (-)



#57

1,3-Dichloropropane

Concen: 1.036 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054680.D

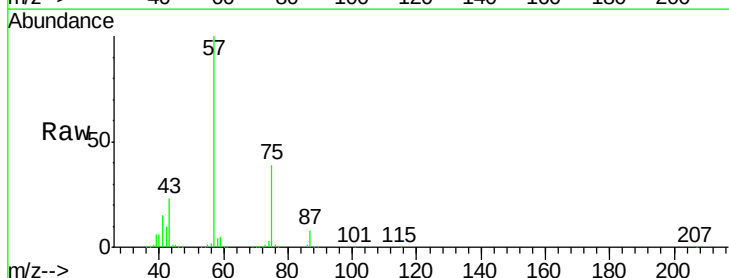
Acq: 25 Mar 2019 18:31

Tgt Ion: 76 Resp: 9978

Ion Ratio Lower Upper

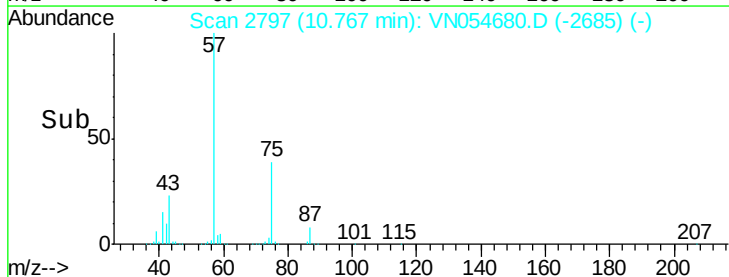
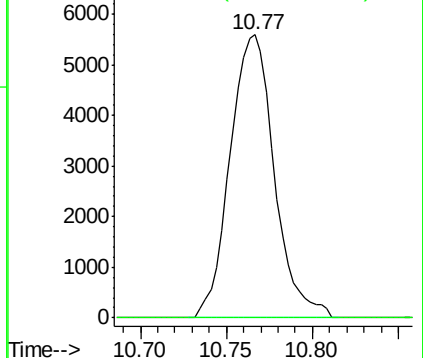
76 100

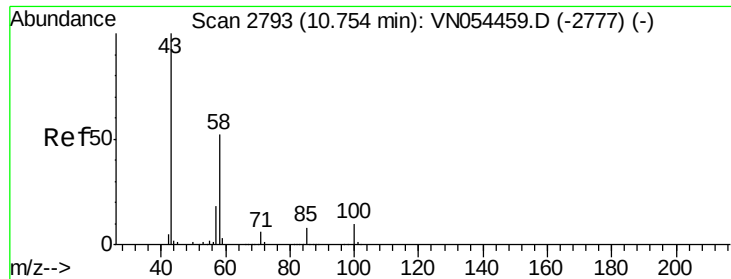
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN054459.D (-2763) (-)

Ion 77.90 (77.60 to 78.60): VN054459.D (-2763) (-)

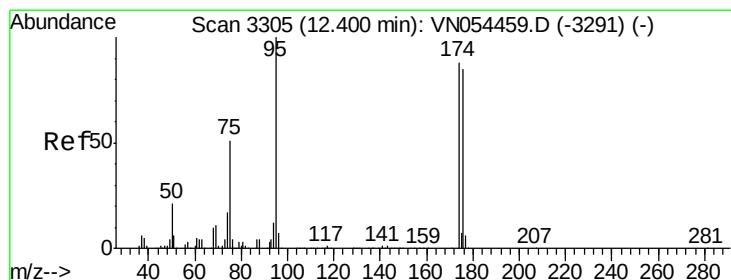
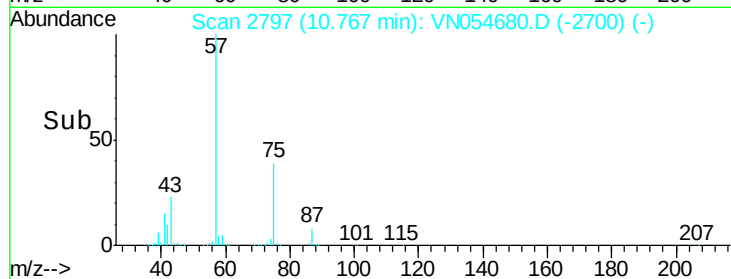
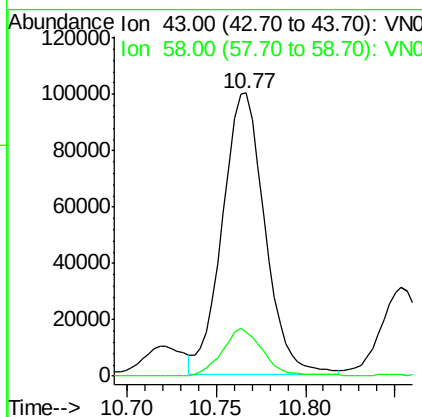
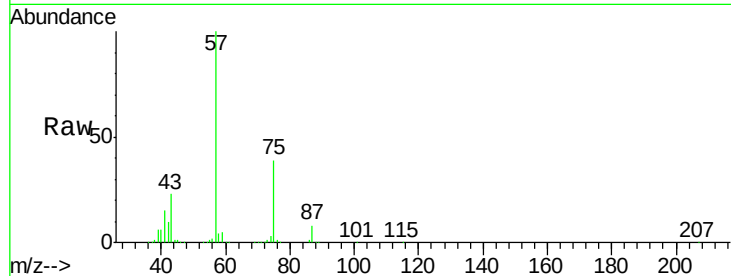




#59
2-Hexanone
Concen: 43.618 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054680.D
Acq: 25 Mar 2019 18:31

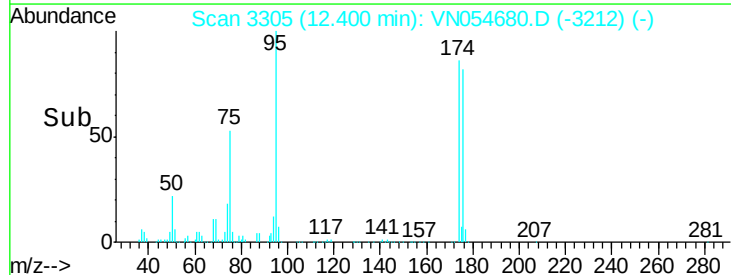
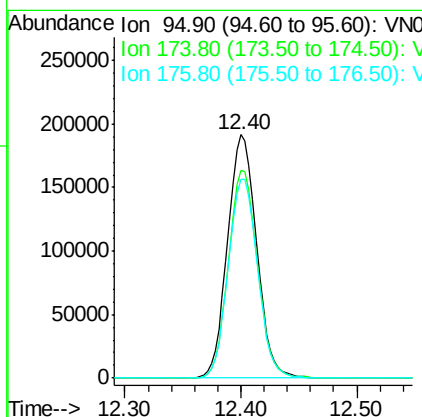
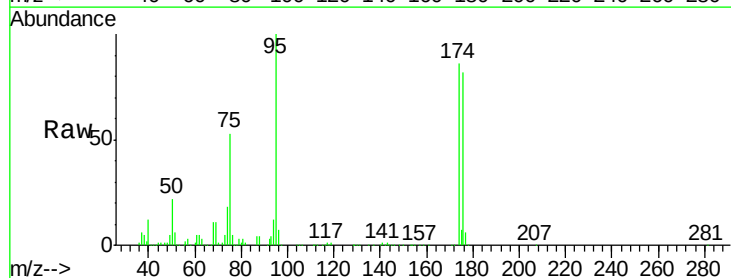
Instrument :
MSVOA_N
ClientSampled :
S3B(15)

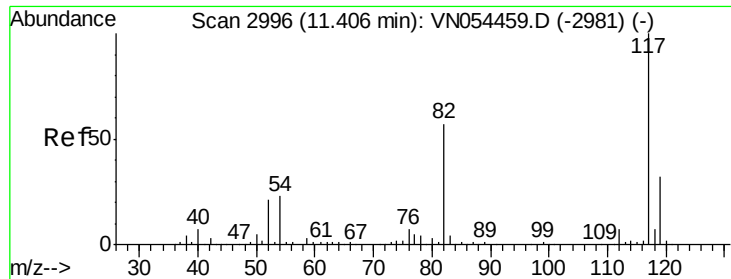
Tot Ion: 43 Resp: 166225
Ion Ratio Lower Upper
43 100
58 16.5 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 42.916 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054680.D
Acq: 25 Mar 2019 18:31

Tgt Ion: 95 Resp: 331534
Ion Ratio Lower Upper
95 100
174 85.2 0.0 191.0
176 82.4 0.0 187.4

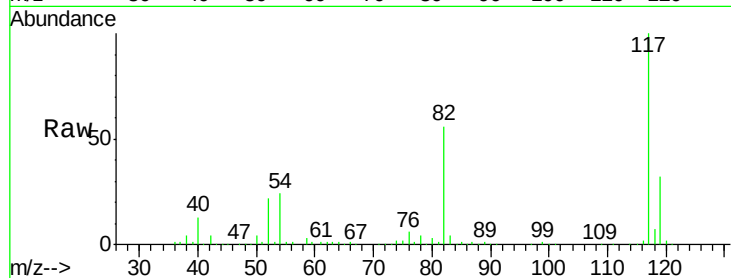




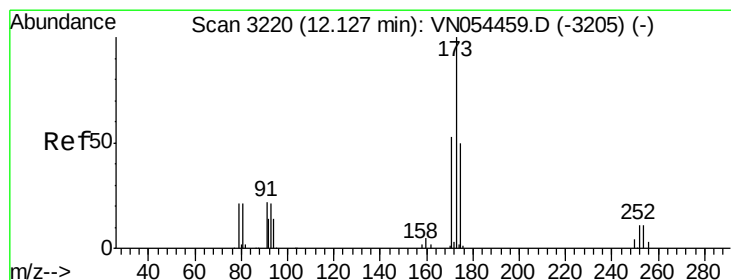
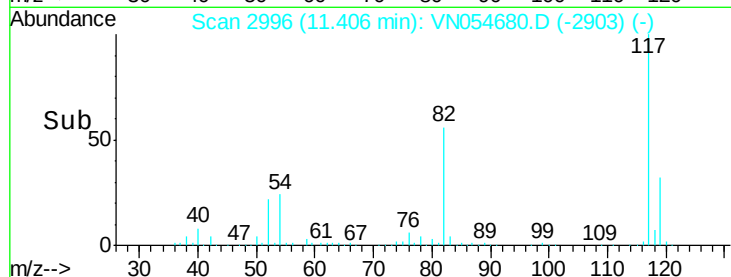
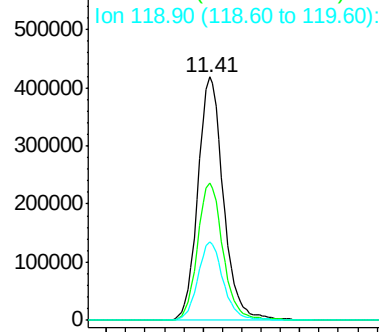
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054680.D
Acq: 25 Mar 2019 18:31

Instrument :
MSVOA_N
ClientSampled :
S3B(15)

Tot Ion:117 Resp: 768897
Ion Ratio Lower Upper
117 100
82 56.3 40.0 60.0
119 32.0 25.8 38.6

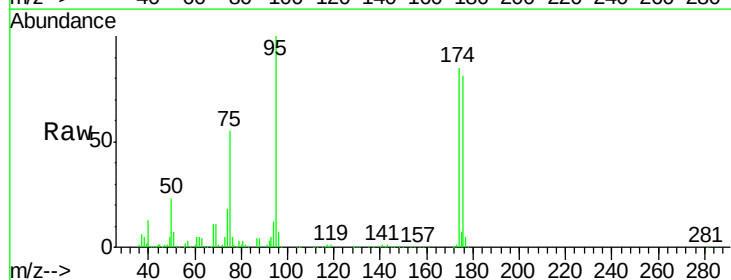


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

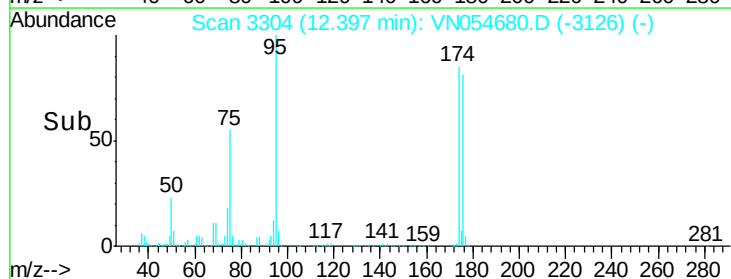
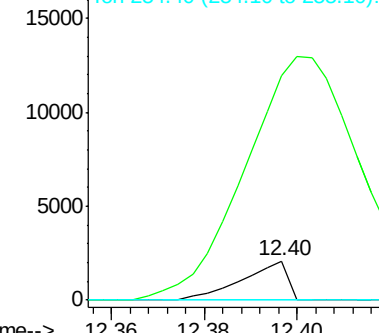


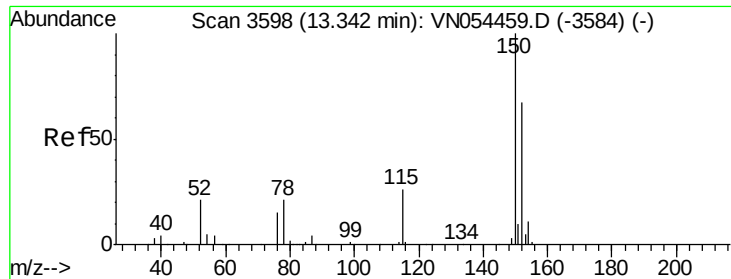
#71
Bromoform
Concen: 2.568 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN054680.D
Acq: 25 Mar 2019 18:31

Tgt Ion:173 Resp: 1406
Ion Ratio Lower Upper
173 100
175 1384.8 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: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampleId :

S3B(15)

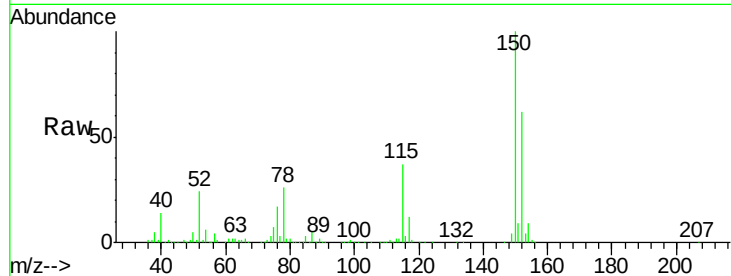
Tot Ion:152 Resp: 277258

Ion Ratio Lower Upper

152 100

115 59.0 27.2 81.6

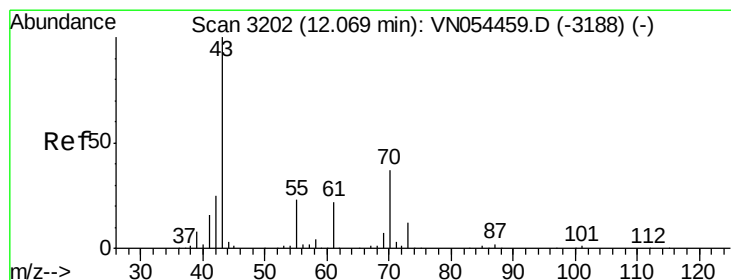
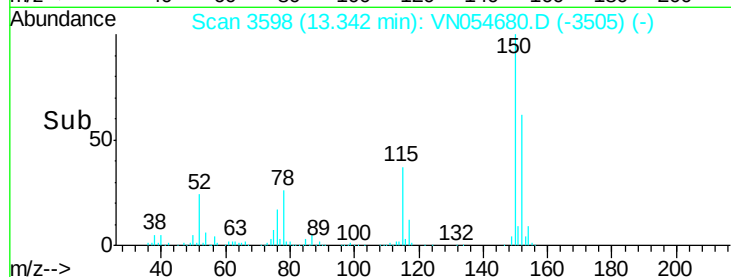
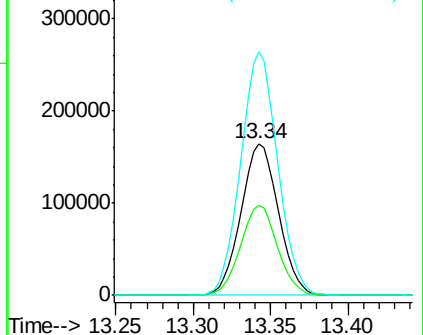
150 158.6 0.0 349.2



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



#74

N-ethyl acetate

Concen: 2.434 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Tgt Ion: 43 Resp: 15639

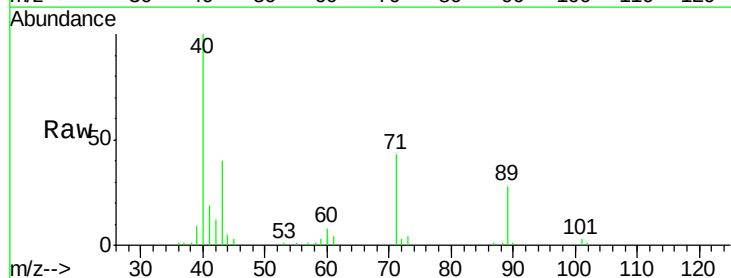
Ion Ratio Lower Upper

43 100

70 0.2 35.4 53.0#

55 3.4 19.8 29.6#

61 10.4 19.8 29.6#

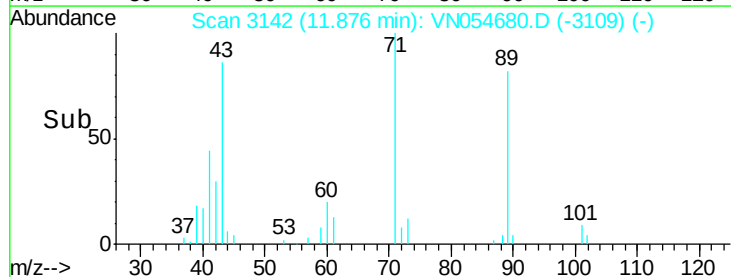
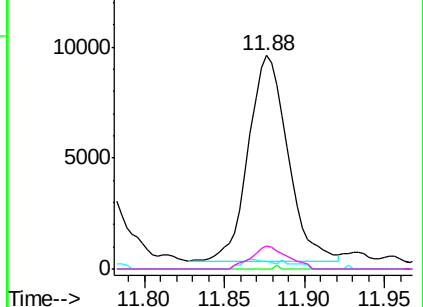


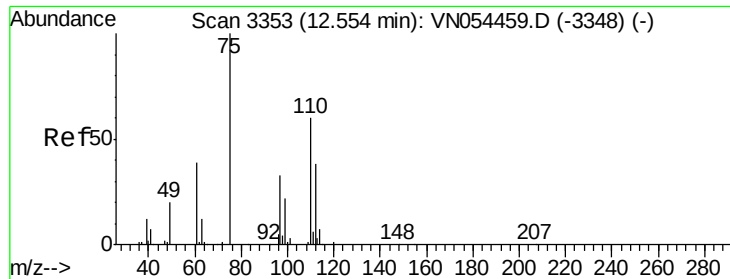
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 39.933 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Instrument :

MSVOA_N

ClientSampleId :

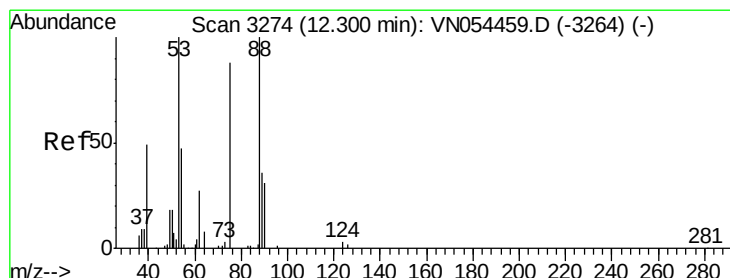
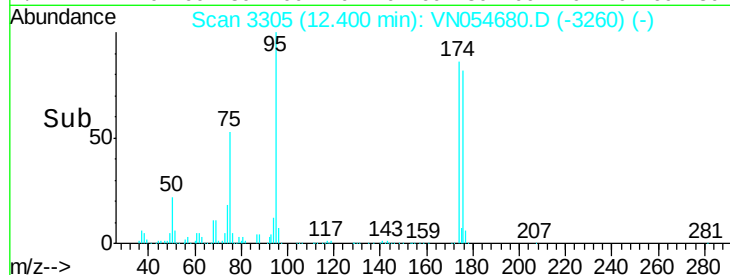
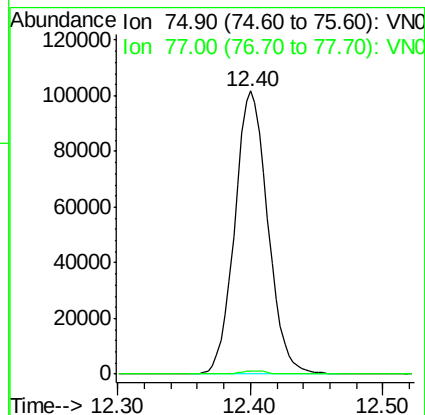
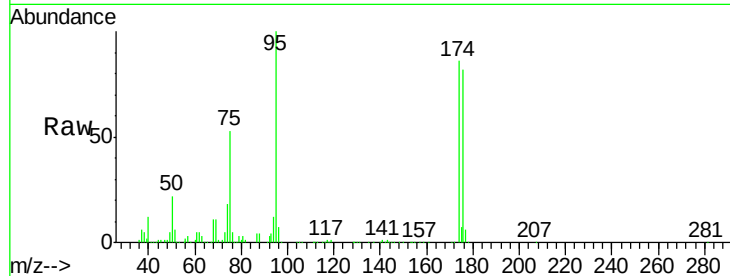
S3B(15)

Tot Ion: 75 Resp: 175693

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 132.103 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054680.D

Acq: 25 Mar 2019 18:31

Tgt Ion: 75 Resp: 175693

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

