

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020419\
 Data File : VN053604.D
 Acq On : 4 Feb 2019 18:37
 Operator : JC/SP
 Sample : PB116782TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116782TB

Quant Time: Feb 05 01:29:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	845267	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1362728	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1237517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	541176	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	438595	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
35) Dibromofluoromethane	7.59	113	431071	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
50) Toluene-d8	10.09	98	1639375	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	12.40	95	551237	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	

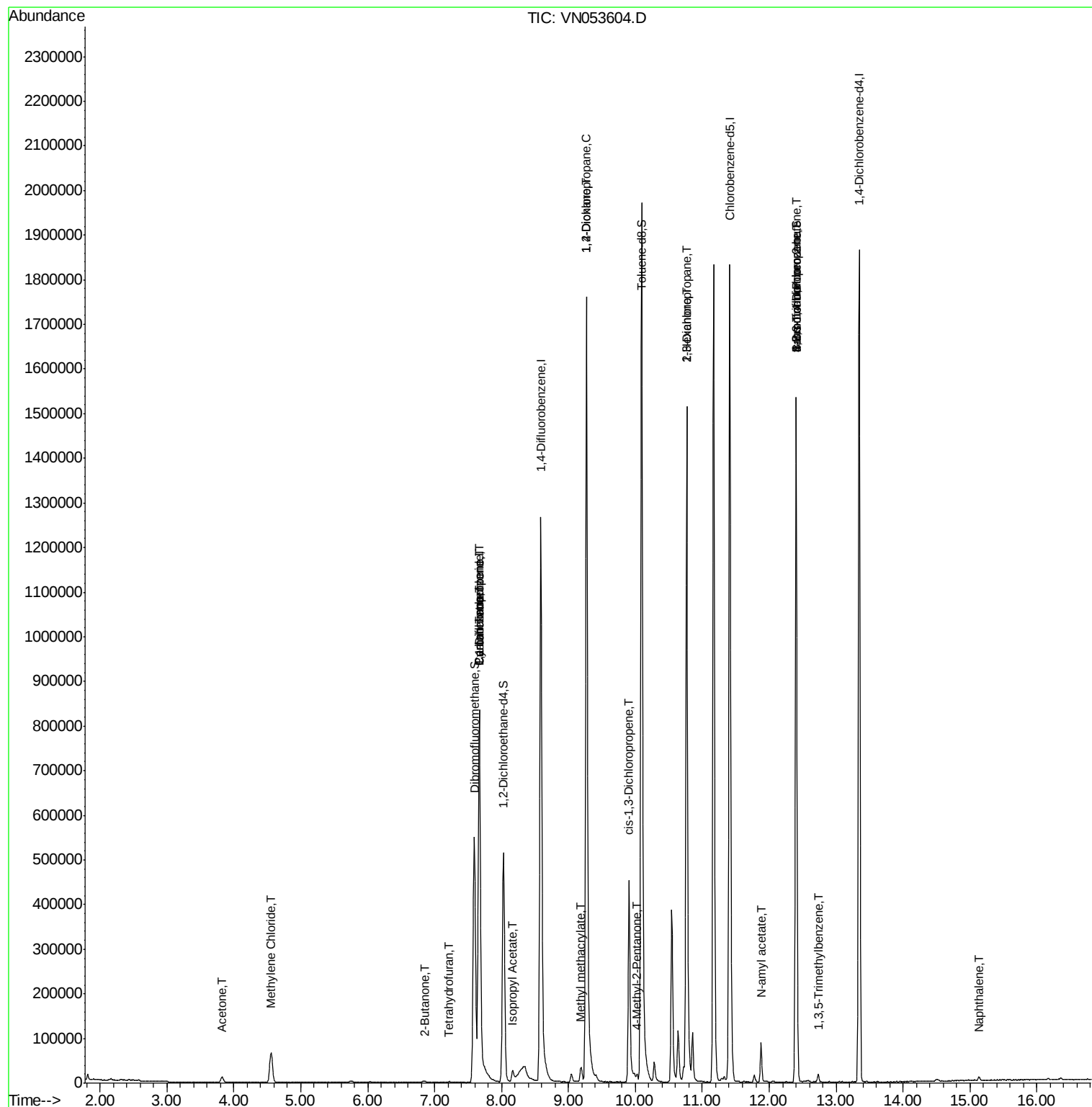
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	22561	10.373	ug/l	99
20) Methylene Chloride	4.56	84	54112	5.930	ug/l	98
25) 2-Butanone	6.85	43	5926	1.910	ug/l	93
29) Tetrahydrofuran	7.21	42	666	0.334	ug/l #	32
31) Cyclohexane	7.66	56	11810	0.656	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	50791	4.135	ug/l #	48
38) Carbon Tetrachloride	7.67	117	70307	5.681	ug/l #	15
43) Isopropyl Acetate	8.17	43	34216	2.582	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	2426	0.250	ug/l #	43
48) Methyl methacrylate	9.18	41	13501	2.135	ug/l #	21
49) 1,4-Dioxane	9.27	88	123	40.388	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	12757	1.959	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	100713	6.989	ug/l #	59
57) 1,3-Dichloropropane	10.77	76	17957	1.297	ug/l #	43
59) 2-Hexanone	10.77	43	236276	53.456	ug/l #	50
71) Bromoform	12.40	173	1324	0.210	ug/l #	28
74) N-amyl acetate	11.88	43	27477	3.004	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	256145	36.850	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7923	0.251	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	256145	103.618	ug/l #	15
95) Naphthalene	15.14	128	7546	2.043	ug/l #	95

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

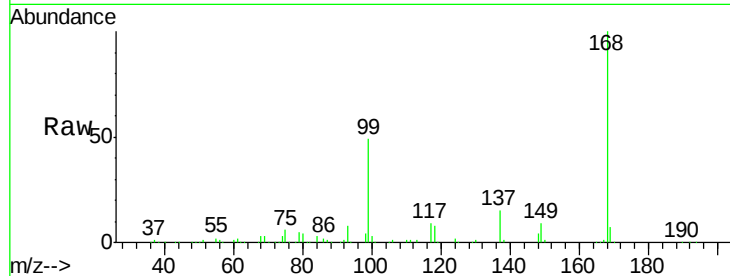
PB116782TB

Tot Ion:168 Resp: 845267

Ion Ratio Lower Upper

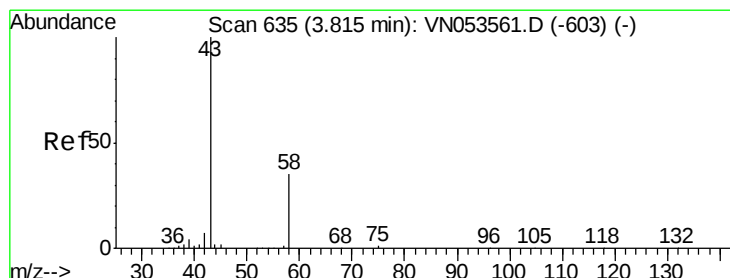
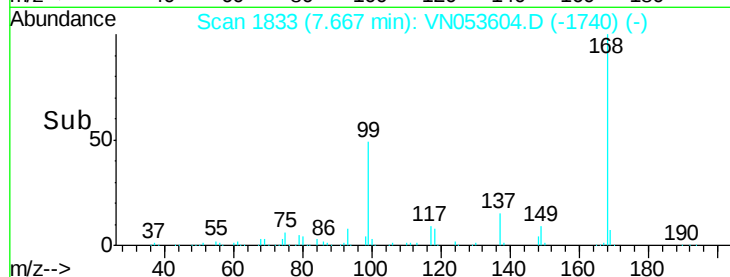
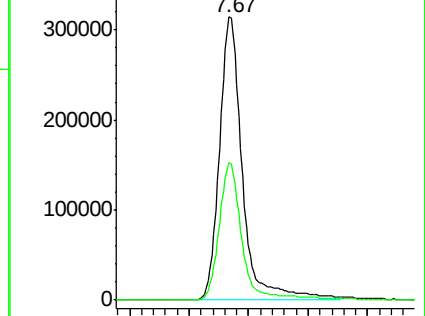
168 100

99 48.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 10.373 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053604.D

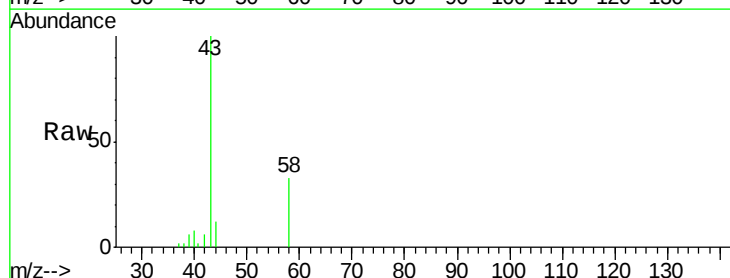
Acq: 4 Feb 2019 18:37

Tgt Ion: 43 Resp: 22561

Ion Ratio Lower Upper

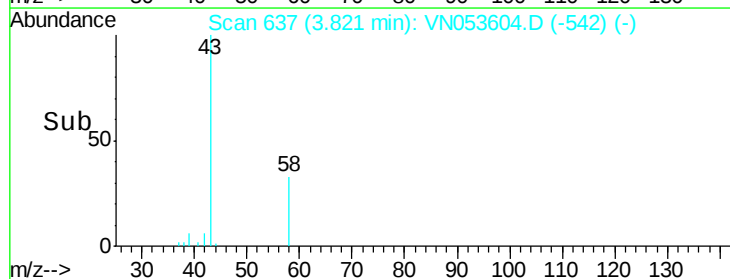
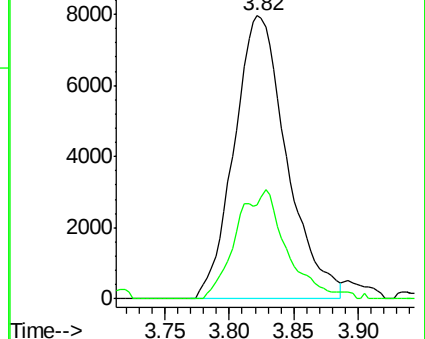
43 100

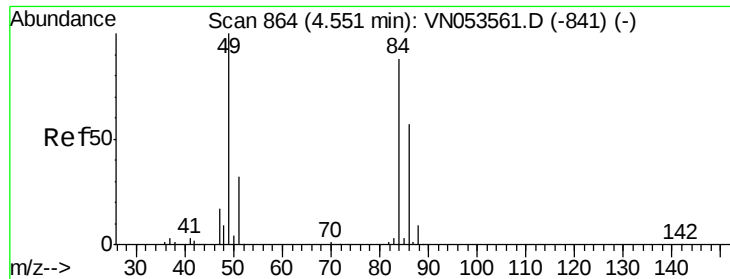
58 33.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

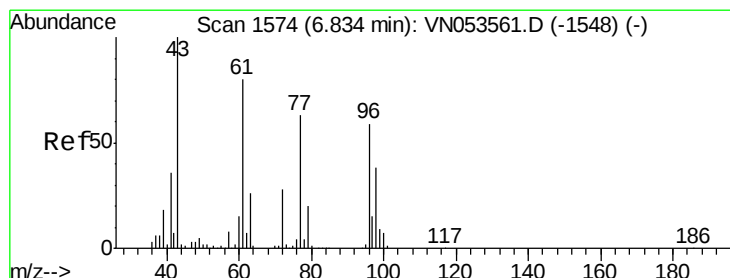
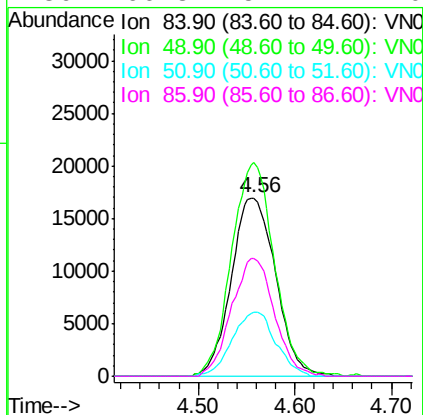
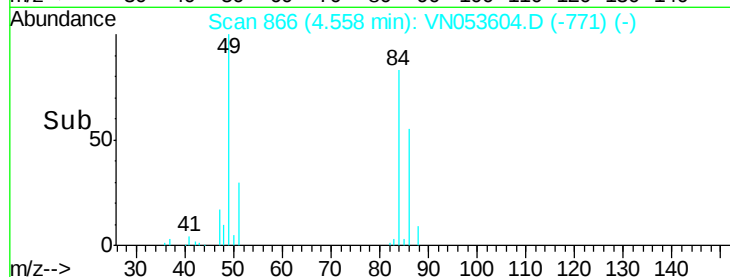
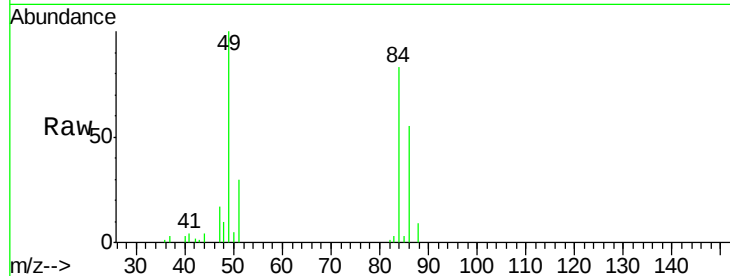




#20
Methvlene Chloride
Concen: 5.930 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053604.D
Acq: 4 Feb 2019 18:37

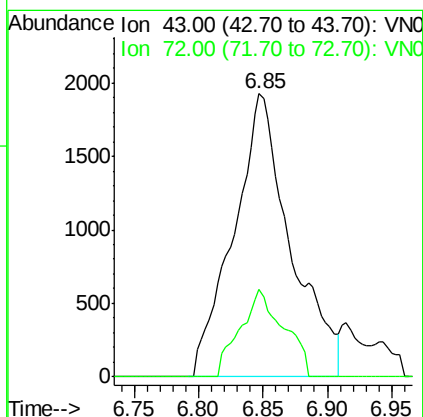
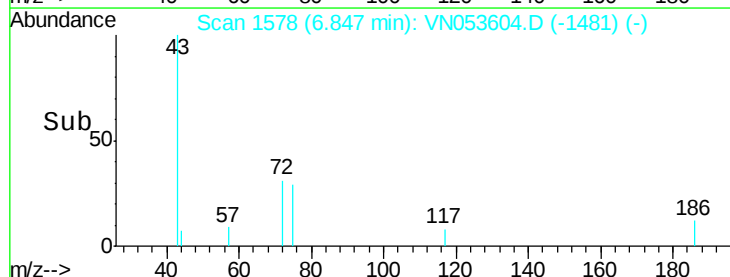
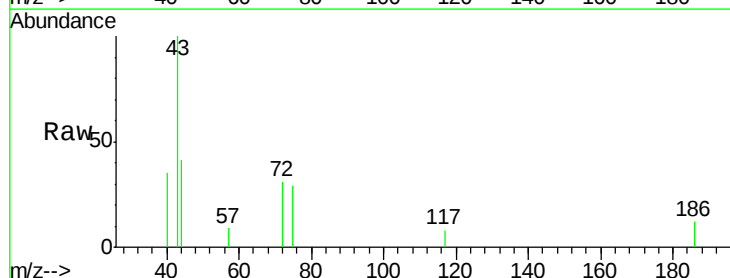
Instrument :
MSVOA_N
ClientSampled :
PB116782TB

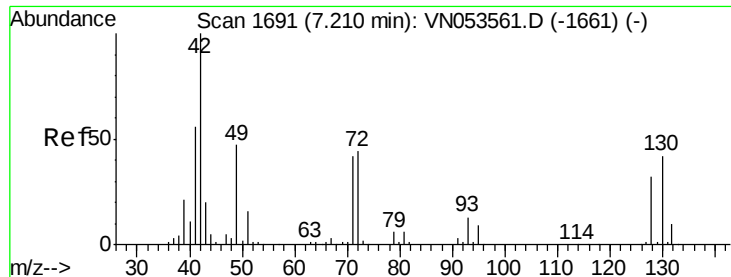
Tot Ion:	84	Resp:	54112
Ion	Ratio	Lower	Upper
84	100		
49	120.0	94.3	141.5
51	36.3	29.4	44.2
86	66.3	51.4	77.0



#25
2-Butanone
Concen: 1.910 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053604.D
Acq: 4 Feb 2019 18:37

Tgt Ion:	43	Resp:	5926
Ion	Ratio	Lower	Upper
43	100		
72	31.0	22.0	33.0

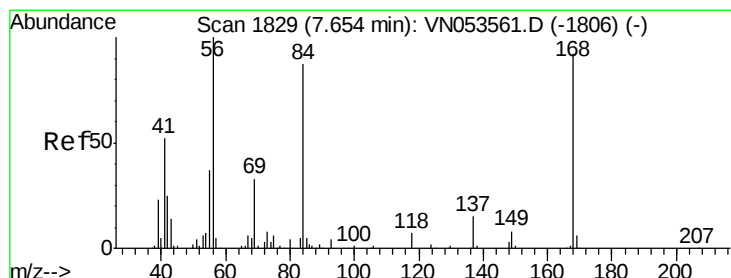
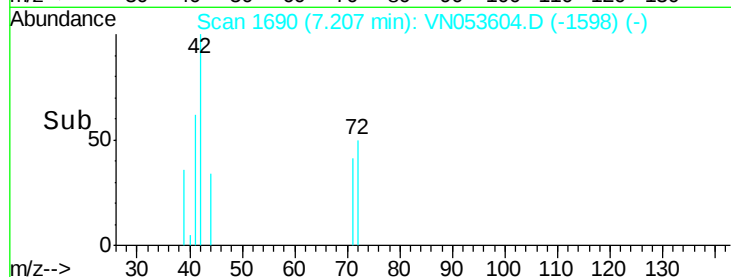
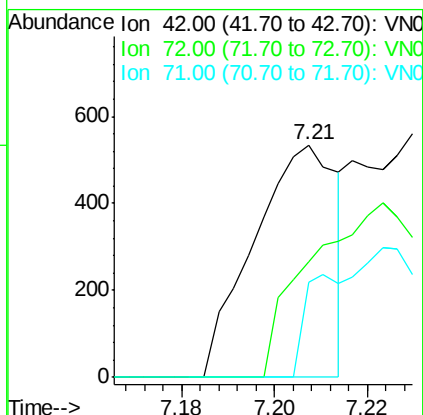
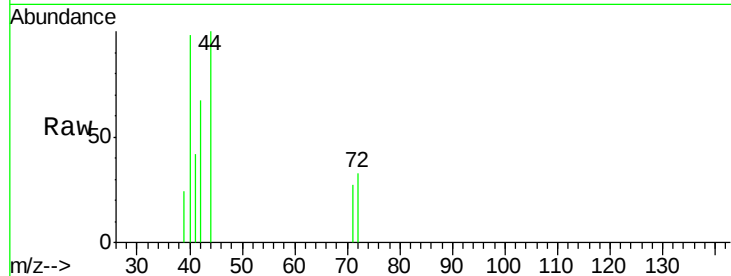




#29
Tetrahydrofuran
Concen: 0.334 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053604.D
Acq: 4 Feb 2019 18:37

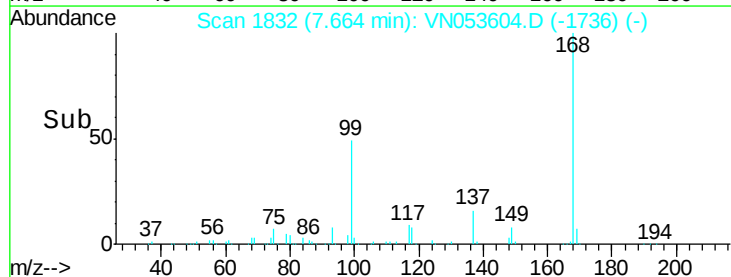
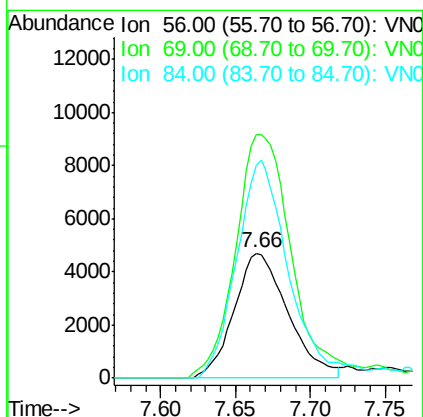
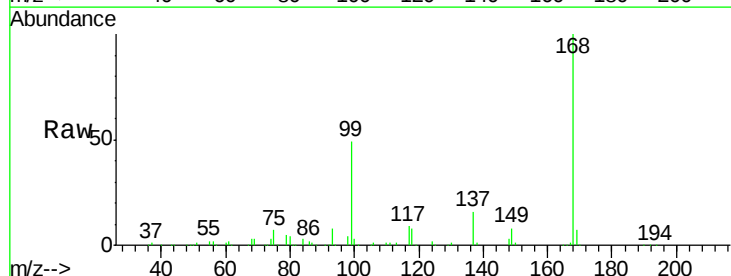
Instrument :
MSVOA_N
ClientSampled :
PB116782TB

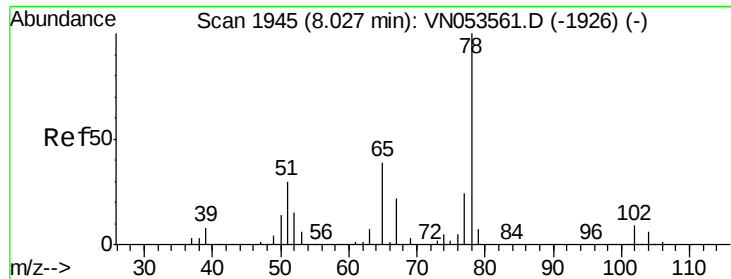
Tot Ion: 42 Resp: 666
Ion Ratio Lower Upper
42 100
72 109.0 35.2 52.8#
71 62.6 33.0 49.4#



#31
Cyclohexane
Concen: 0.656 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053604.D
Acq: 4 Feb 2019 18:37

Tgt Ion: 56 Resp: 11810
Ion Ratio Lower Upper
56 100
69 195.3 26.4 39.6#
84 171.0 67.9 101.9#

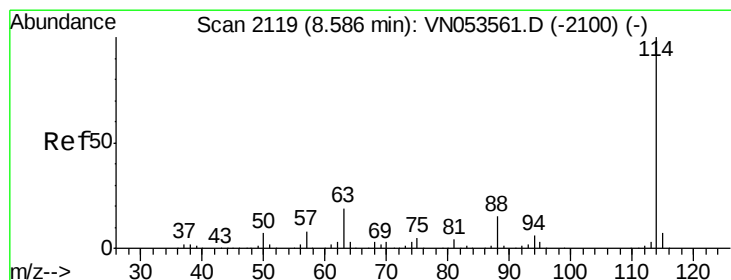
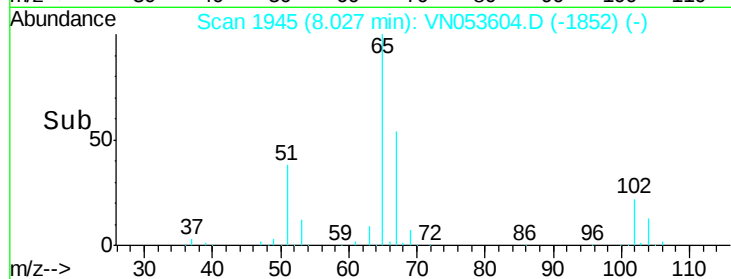
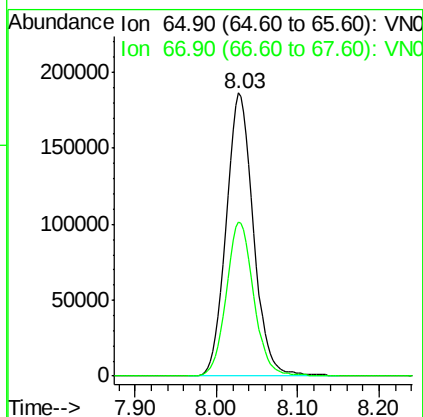
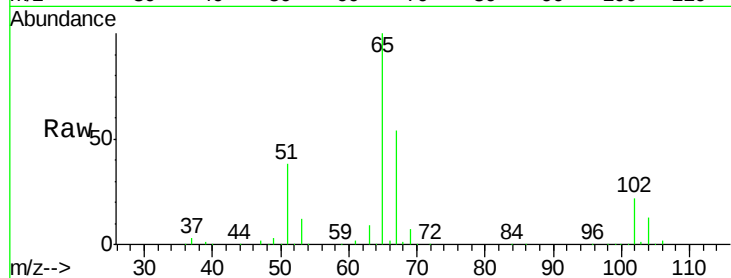




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053604.D
 Acq: 4 Feb 2019 18:37

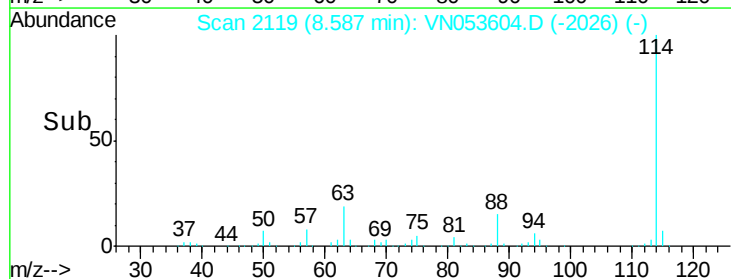
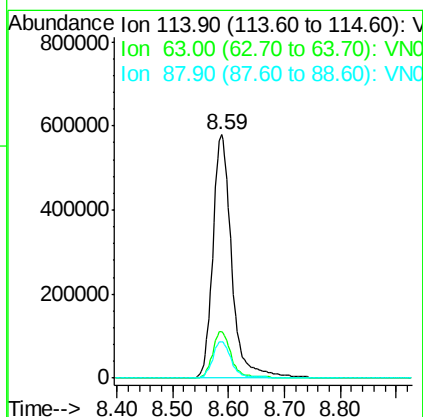
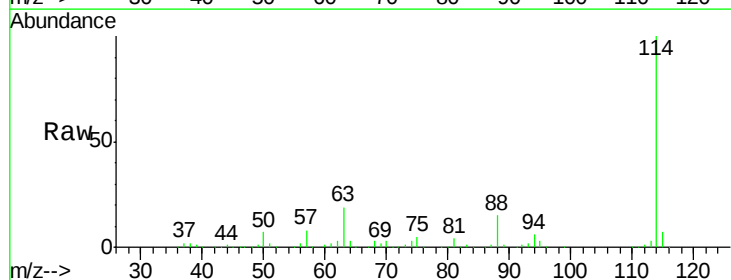
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116782TB

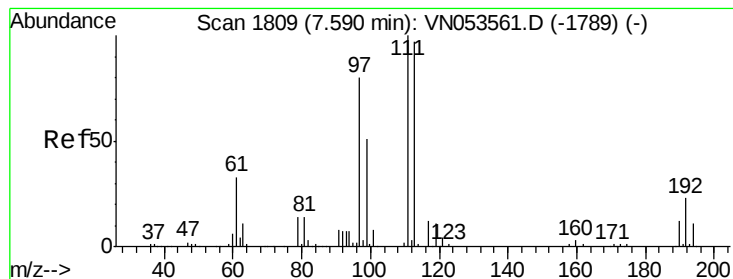
Tot Ion: 65 Resp: 438595
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053604.D
 Acq: 4 Feb 2019 18:37

Tgt Ion: 114 Resp: 1362728
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.1 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

PB116782TB

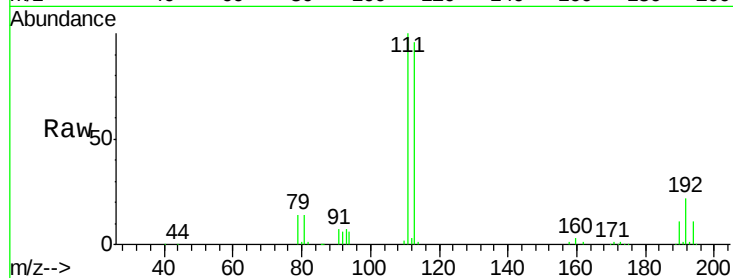
Tot Ion:113 Resp: 431071

Ion Ratio Lower Upper

113 100

111 102.3 81.1 121.7

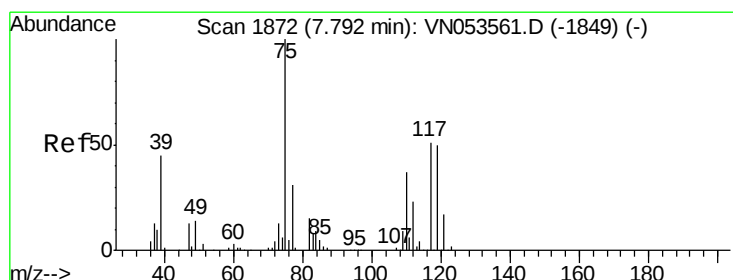
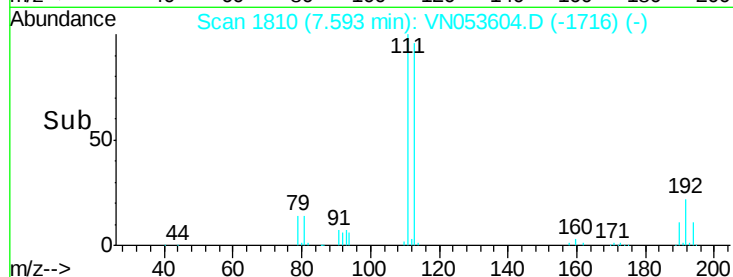
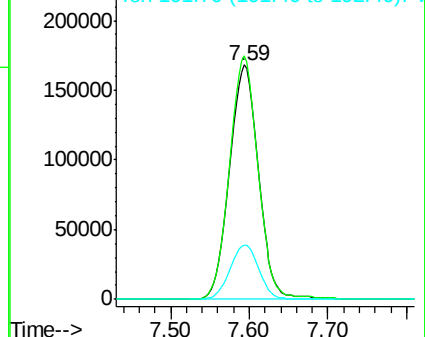
192 23.0 18.2 27.2



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: 4.135 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

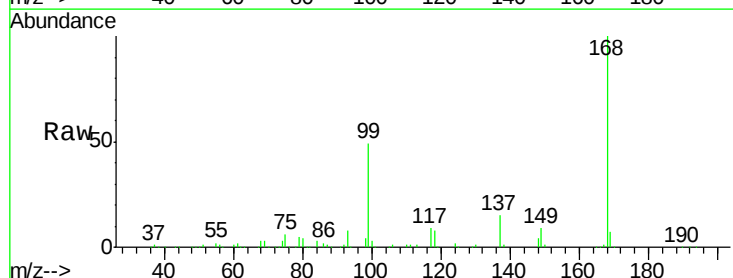
Tgt Ion: 75 Resp: 50791

Ion Ratio Lower Upper

75 100

110 7.5 18.1 54.3#

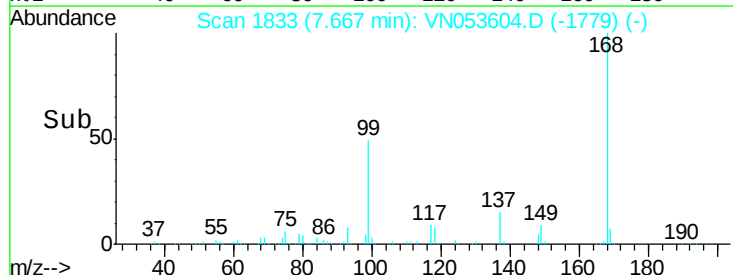
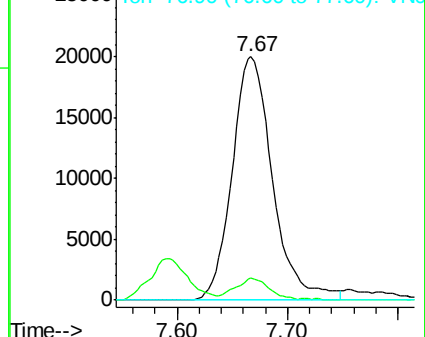
77 0.0 25.1 37.7#

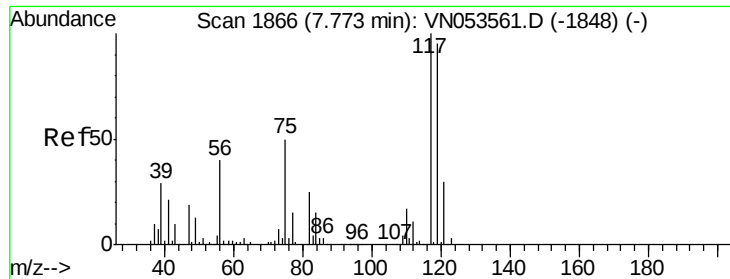


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

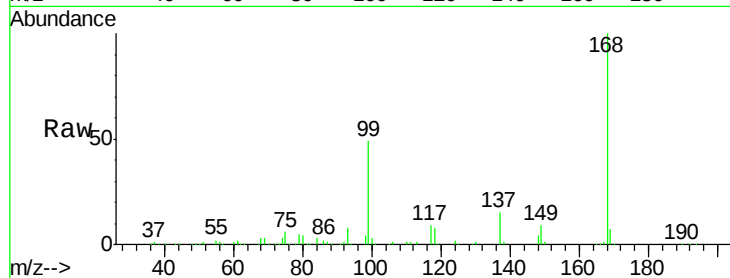




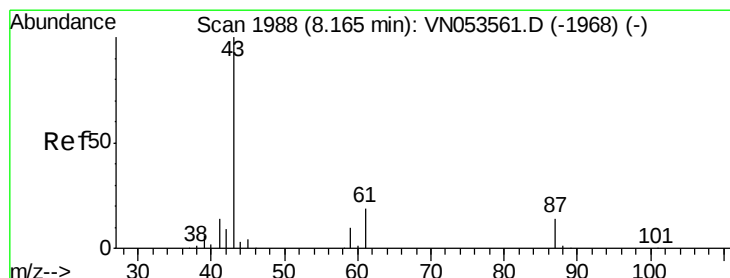
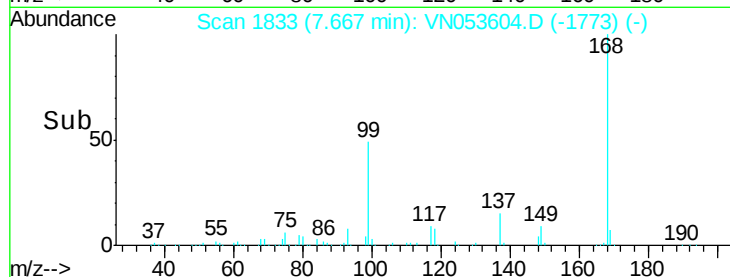
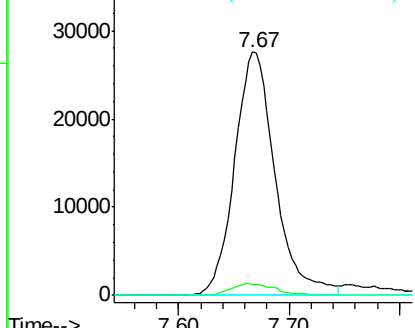
#38
Carbon Tetrachloride
Concen: 5.681 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053604.D
Acq: 4 Feb 2019 18:37

Instrument :
MSVOA_N
ClientSampled :
PB116782TB

Tot Ion:117 Resp: 70307
Ion Ratio Lower Upper
117 100
119 4.5 77.2 115.8#
121 0.0 24.6 37.0#

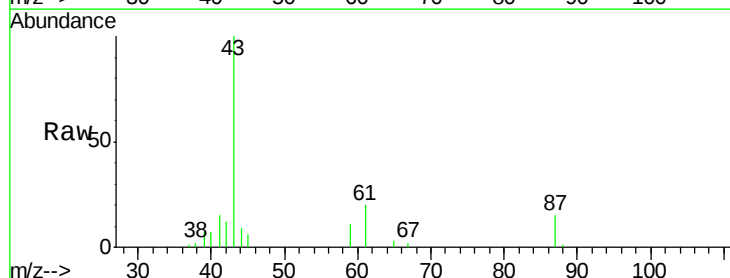


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

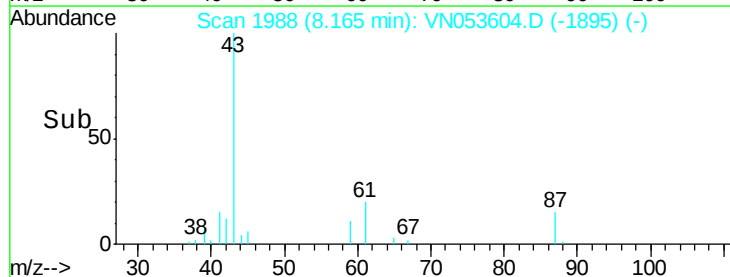
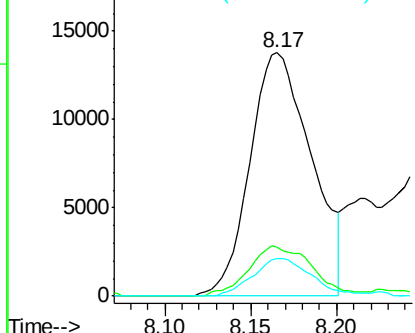


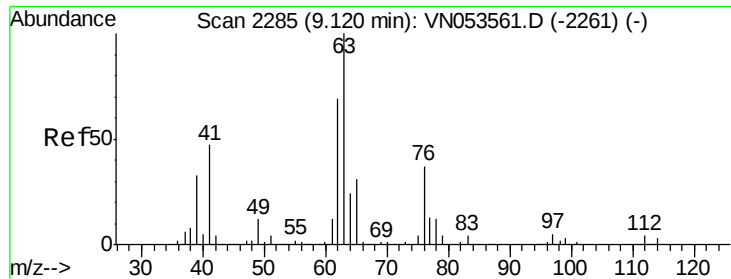
#43
Isopropyl Acetate
Concen: 2.582 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053604.D
Acq: 4 Feb 2019 18:37

Tgt Ion: 43 Resp: 34216
Ion Ratio Lower Upper
43 100
61 21.2 23.9 35.9#
87 14.7 11.0 16.6



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: 0.250 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampled :

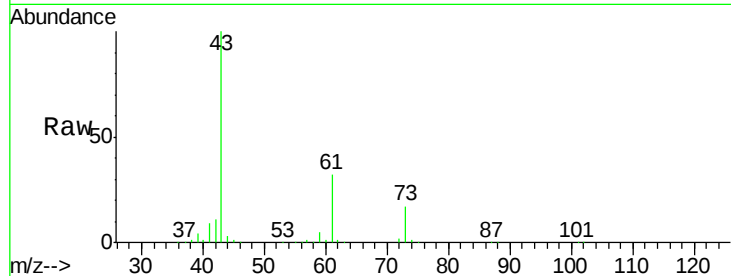
PB116782TB

Tot Ion: 63 Resp: 2426

Ion Ratio Lower Upper

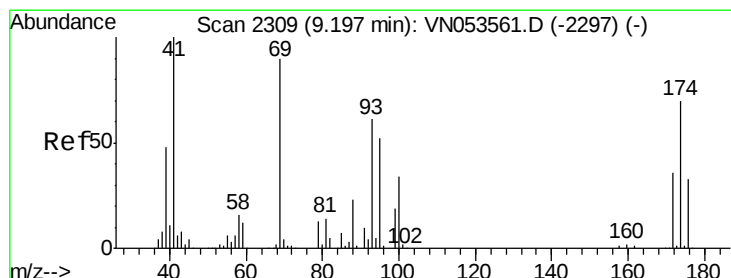
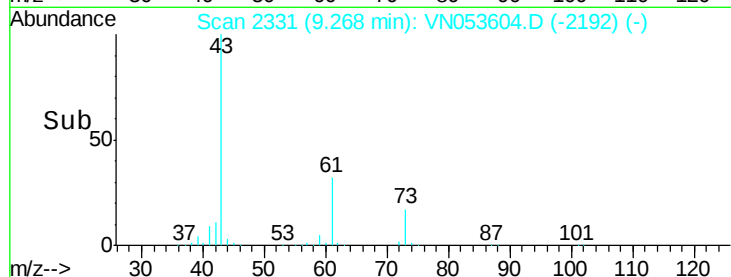
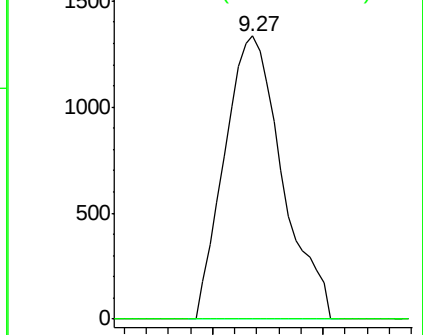
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 2.135 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

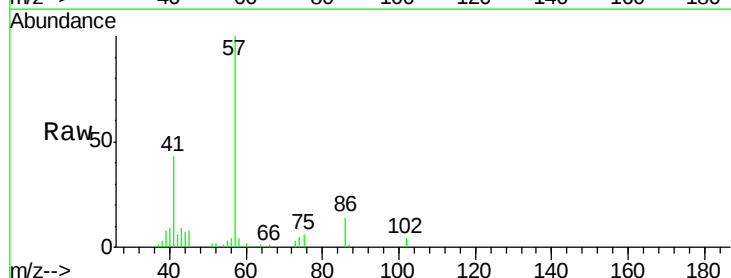
Tgt Ion: 41 Resp: 13501

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

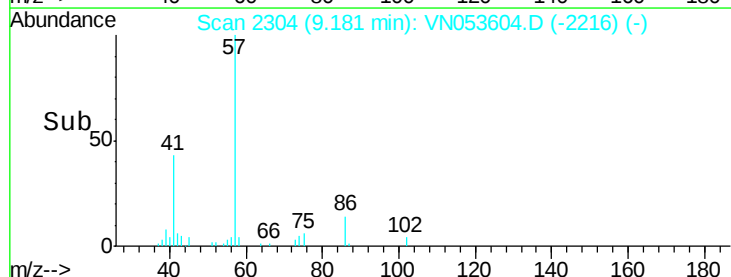
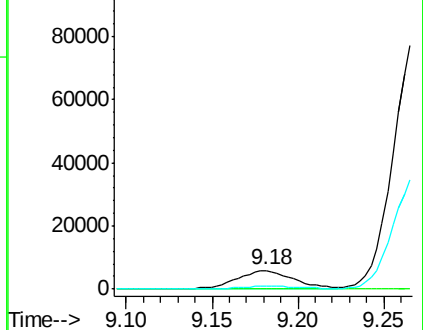
39 18.1 40.0 60.0#

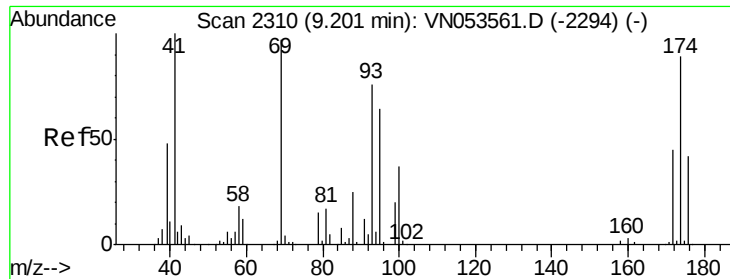


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 40.388 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

PB116782TB

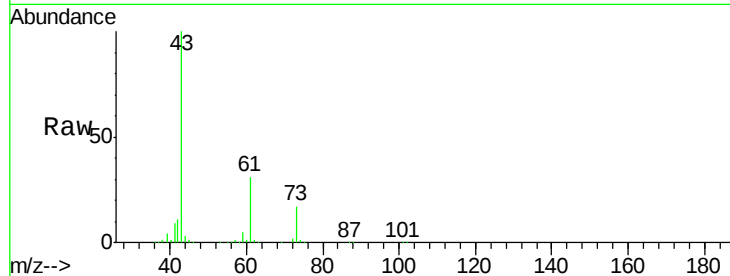
Tot Ion: 88 Resp: 123

Ion Ratio Lower Upper

88 100

43 1573569.1 27.8 41.6#

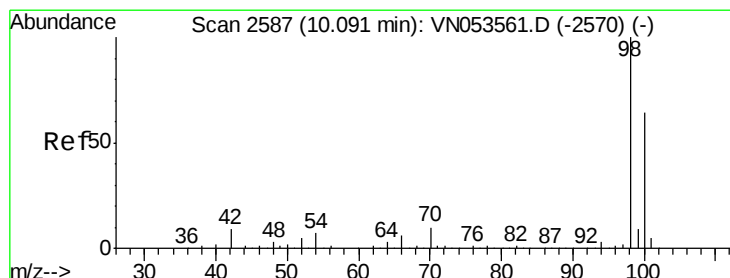
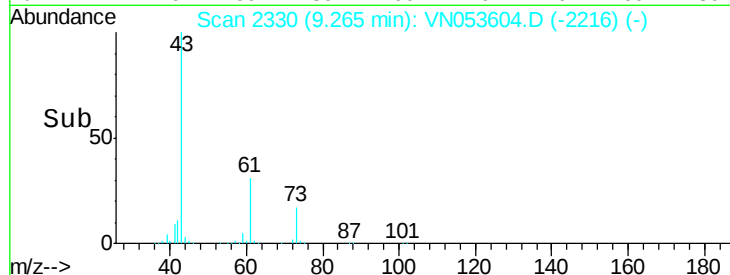
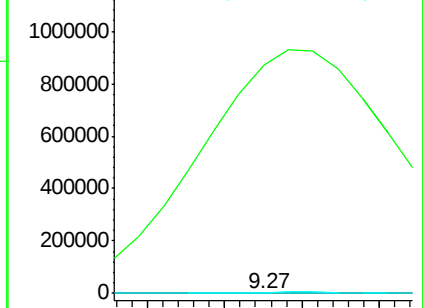
58 7441.5 56.5 84.7#



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: 40.388 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053604.D

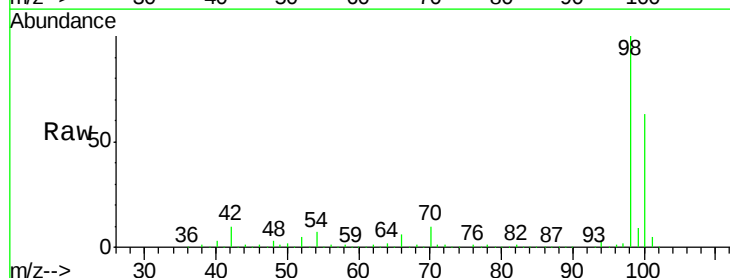
Acq: 4 Feb 2019 18:37

Tgt Ion: 98 Resp: 1639375

Ion Ratio Lower Upper

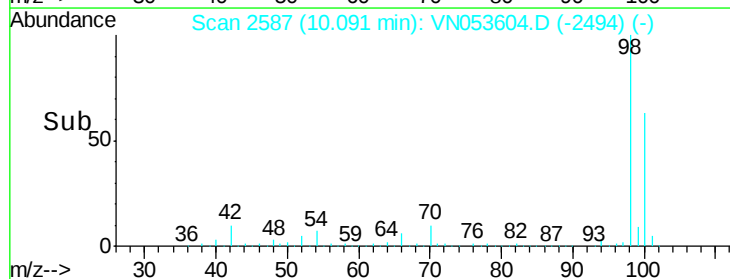
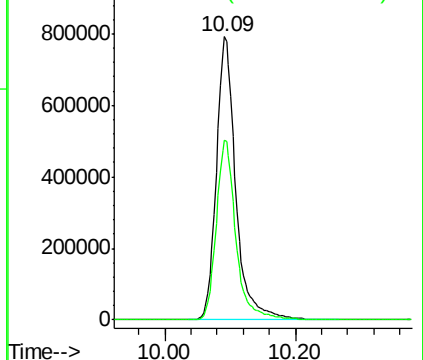
98 100

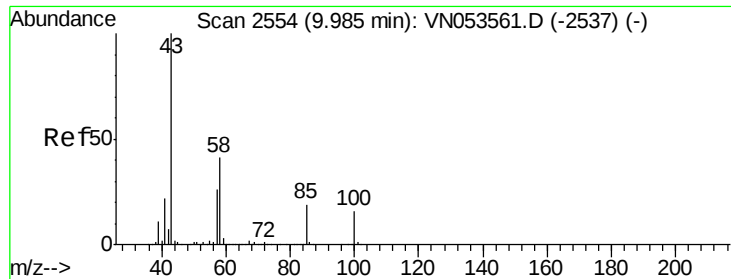
100 64.2 51.4 77.0



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: 1.959 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampled :

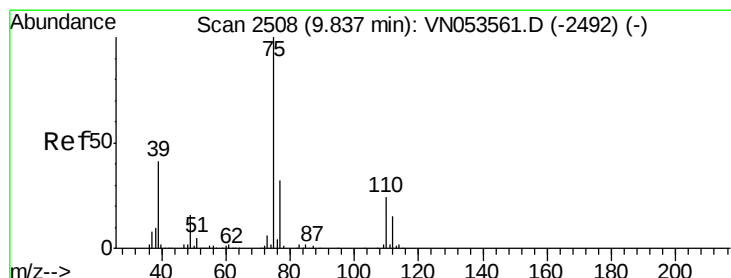
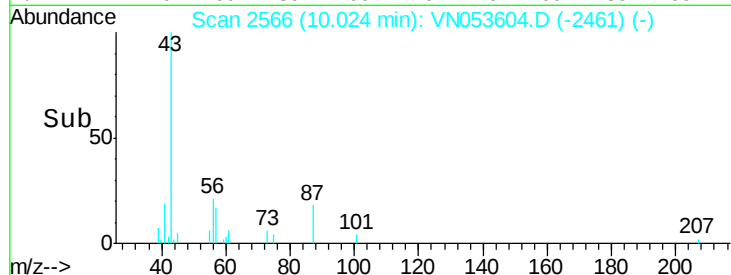
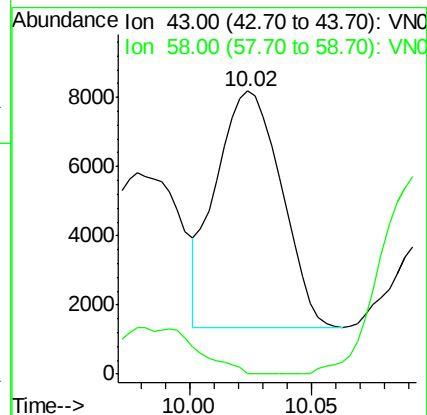
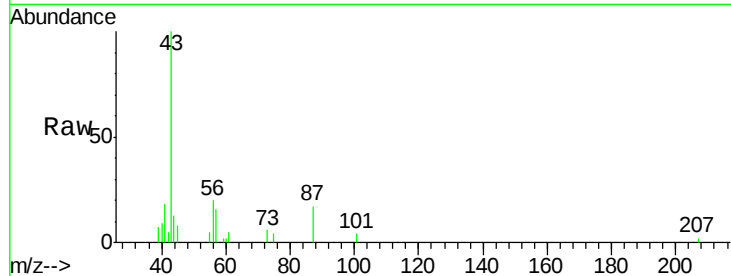
PB116782TB

Tot Ion: 43 Resp: 12757

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



#54

cis-1,3-Dichloropropene

Concen: 6.989 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

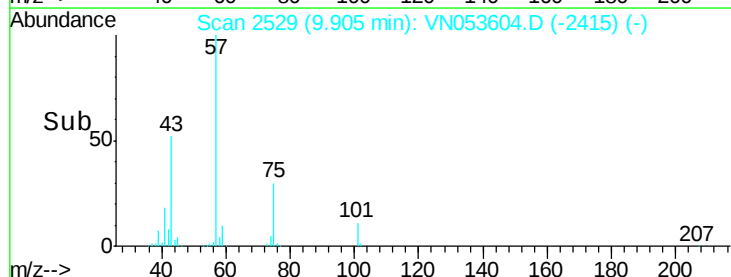
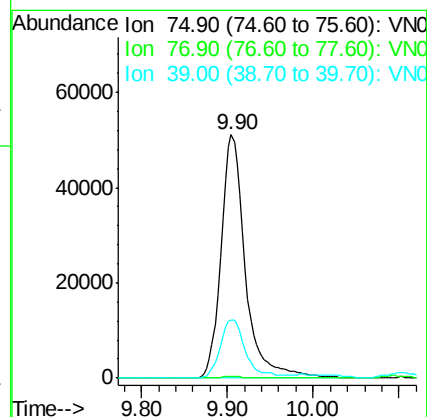
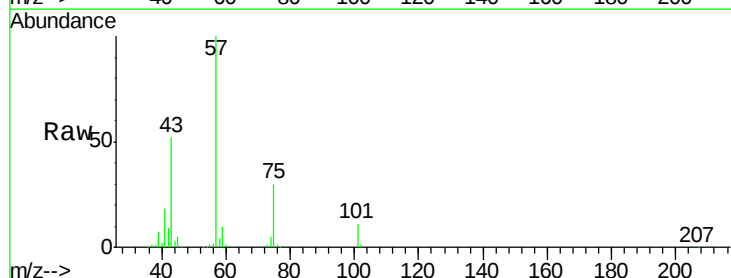
Tgt Ion: 75 Resp: 100713

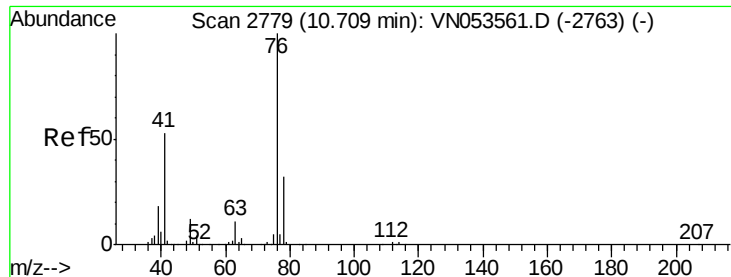
Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 24.1 33.4 50.0#

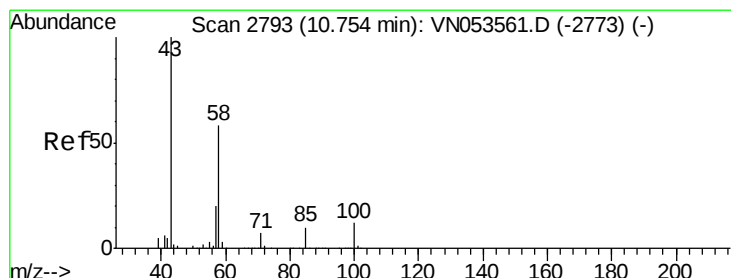
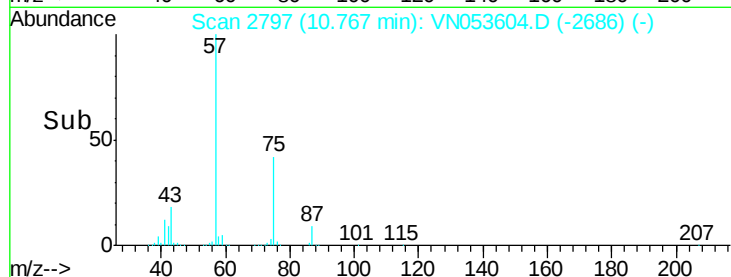
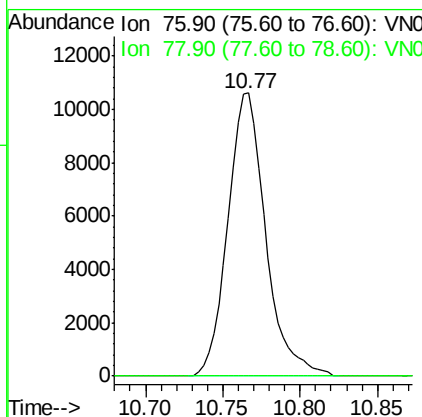
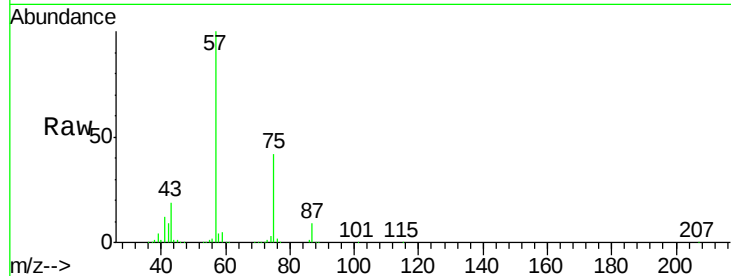




#57
 1,3-Dichloropropane
 Concen: 1.297 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053604.D
 Acq: 4 Feb 2019 18:37

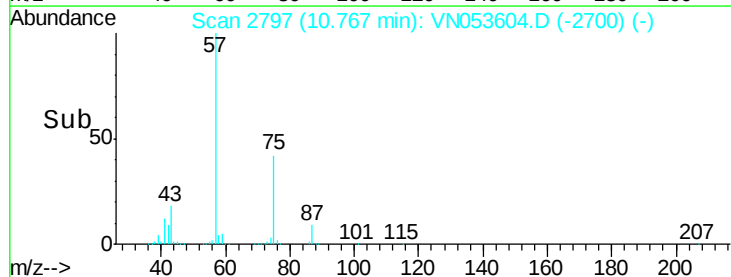
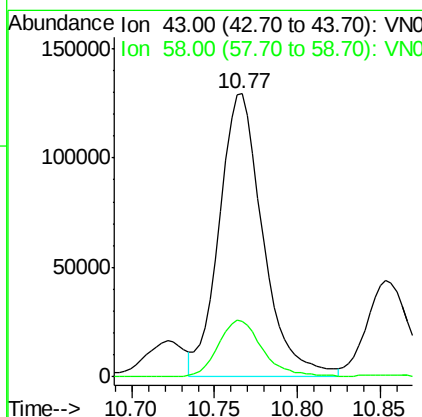
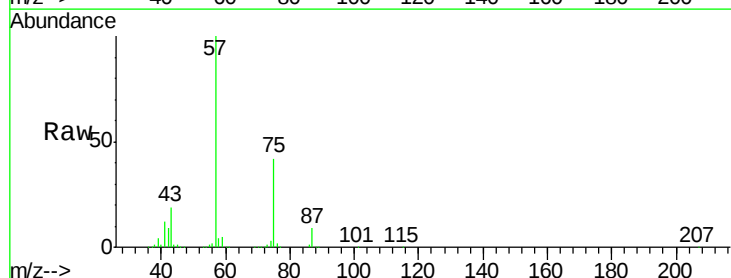
Instrument :
 MSVOA_N
 ClientSampled :
 PB116782TB

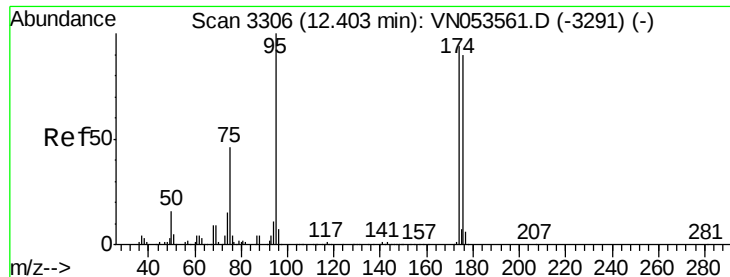
Tot Ion: 76 Resp: 17957
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 53.456 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN053604.D
 Acq: 4 Feb 2019 18:37

Tgt Ion: 43 Resp: 236276
 Ion Ratio Lower Upper
 43 100
 58 20.6 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

PB116782TB

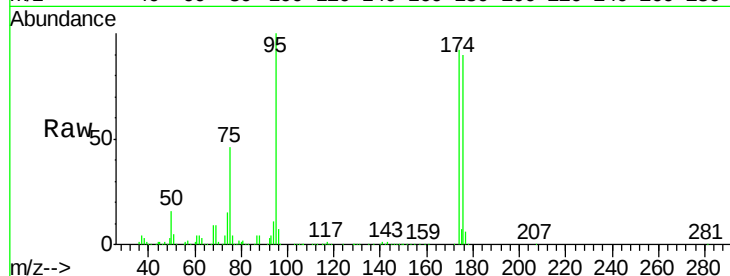
Tot Ion: 95 Resp: 551237

Ion Ratio Lower Upper

95 100

174 91.9 0.0 183.2

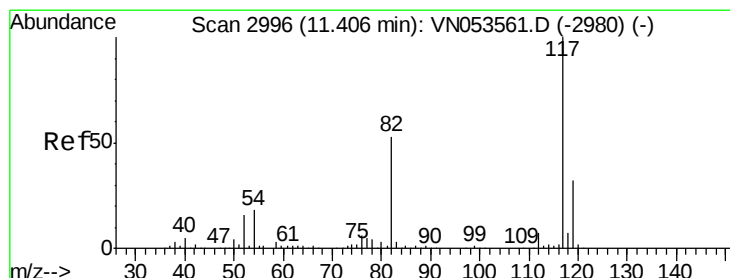
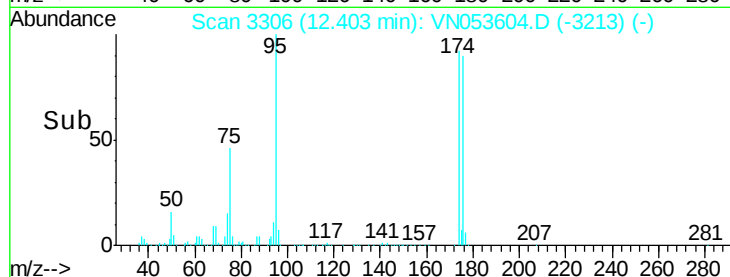
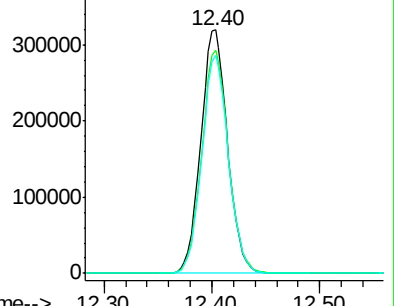
176 88.7 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

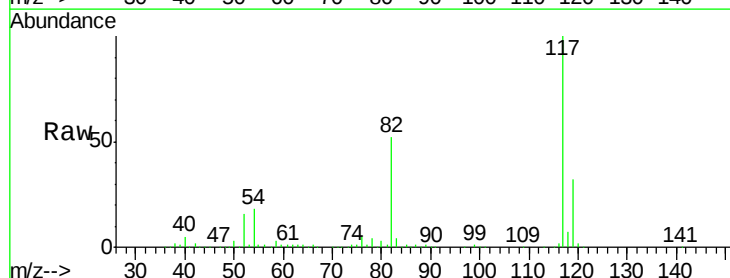
Tgt Ion: 117 Resp: 1237517

Ion Ratio Lower Upper

117 100

82 52.4 42.9 64.3

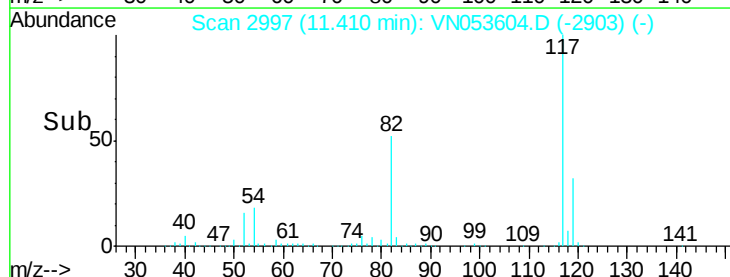
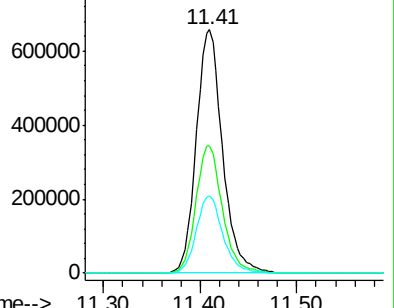
119 31.7 26.0 39.0

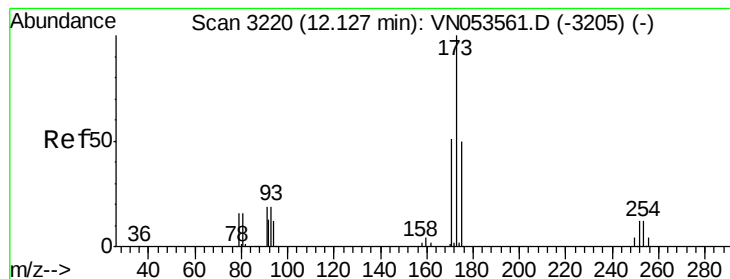


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#71

Bromoform

Concen: 0.210 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampled :

PB116782TB

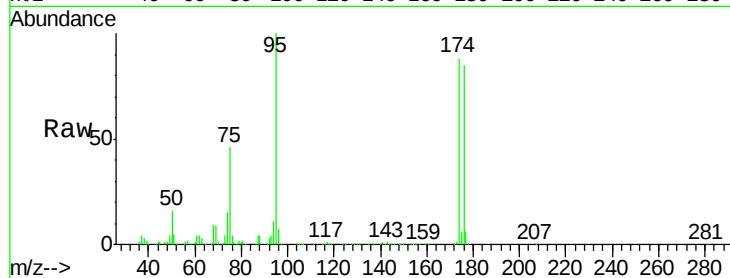
Tot Ion:173 Resp: 1324

Ion Ratio Lower Upper

173 100

175 0.0 24.6 74.0#

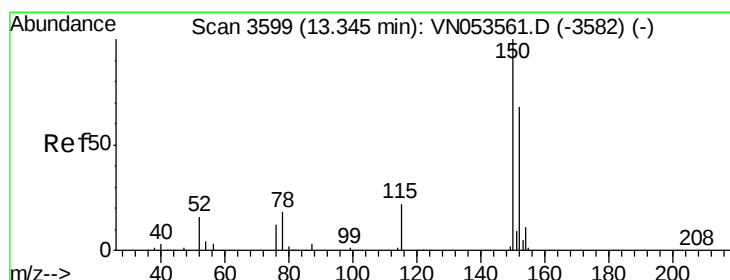
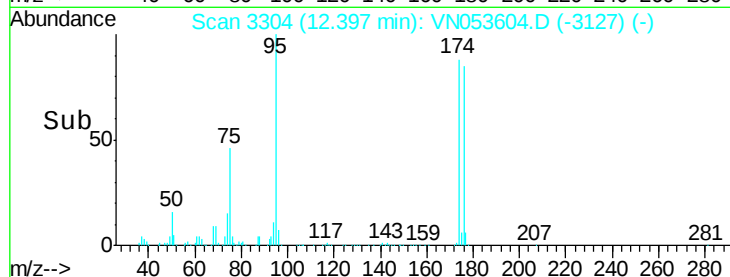
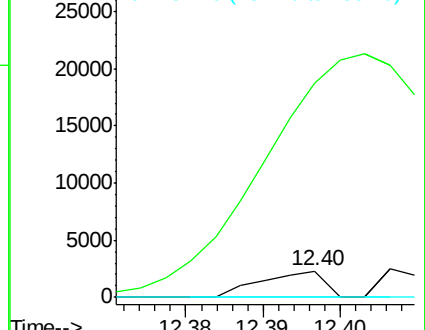
254 0.0 0.2 0.2#



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: VN053604.D

Acq: 4 Feb 2019 18:37

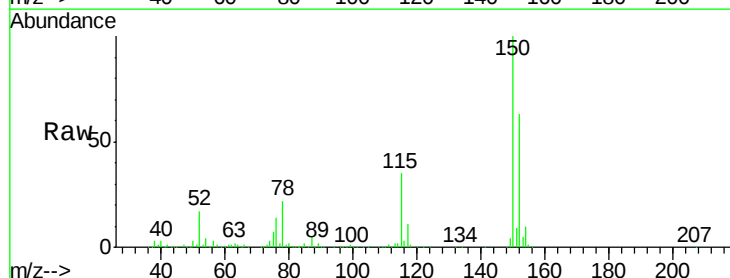
Tgt Ion:152 Resp: 541176

Ion Ratio Lower Upper

152 100

115 55.4 27.8 83.4

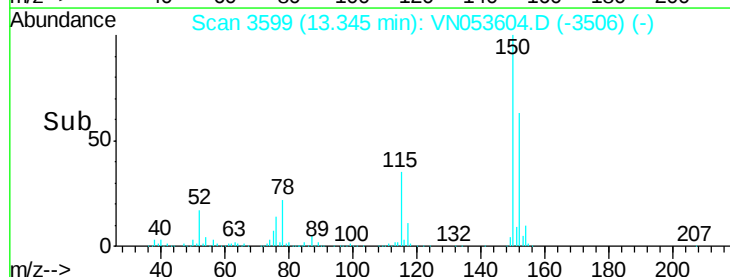
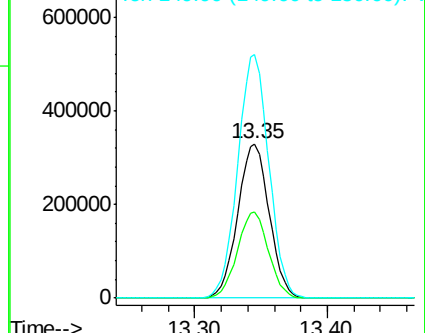
150 156.7 0.0 349.0

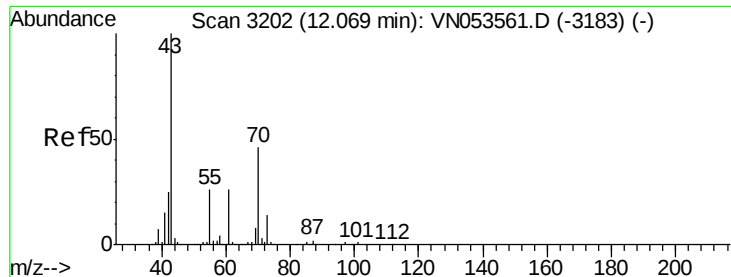


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 3.004 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampled :

PB116782TB

Tot Ion: 43 Resp: 27477

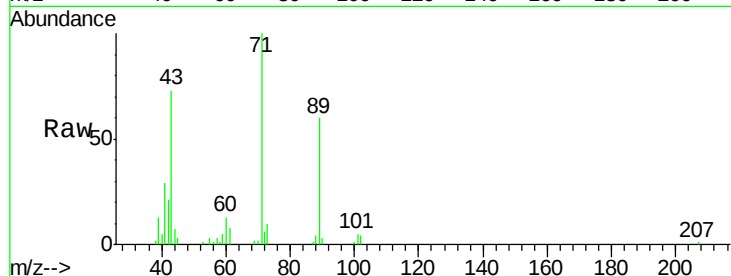
Ion Ratio Lower Upper

43 100

70 2.0 35.4 53.2#

55 4.2 20.9 31.3#

61 10.5 20.5 30.7#

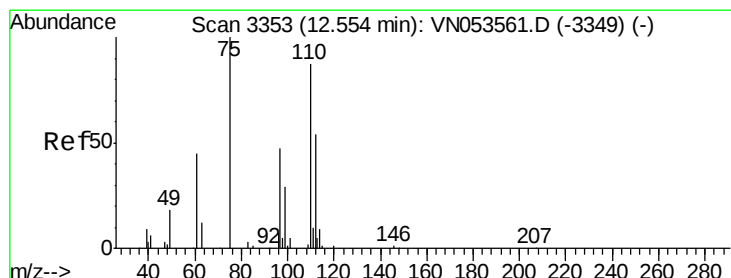
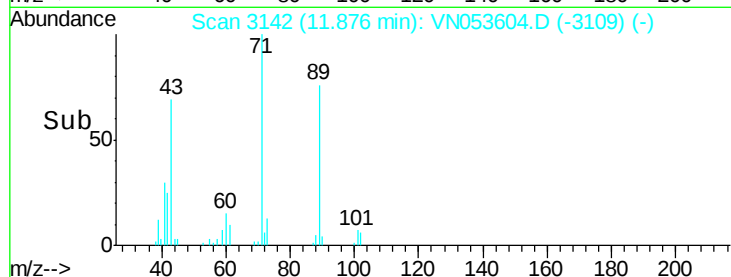
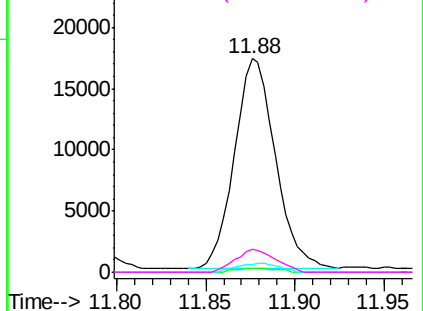


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 36.850 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053604.D

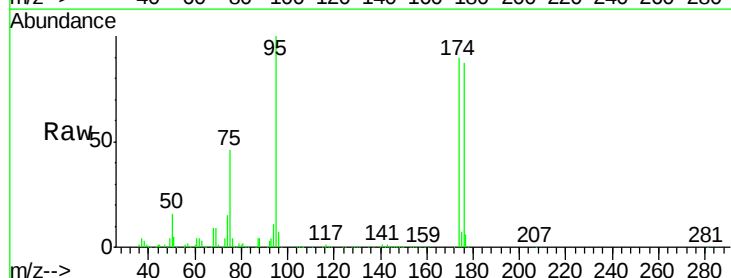
Acq: 4 Feb 2019 18:37

Tgt Ion: 75 Resp: 256145

Ion Ratio Lower Upper

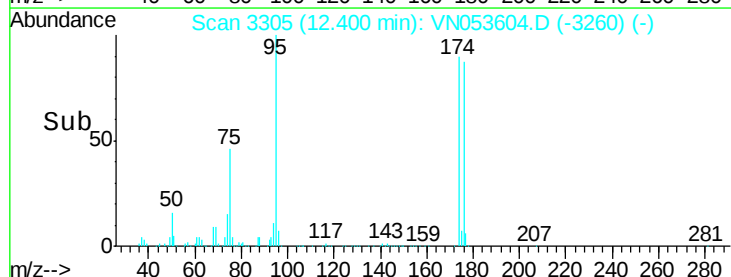
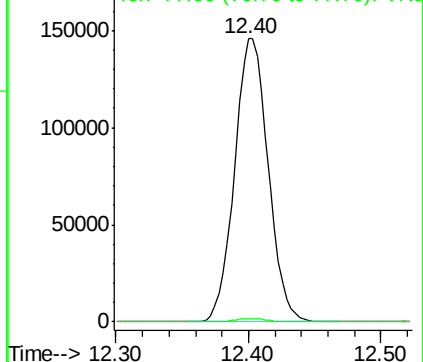
75 100

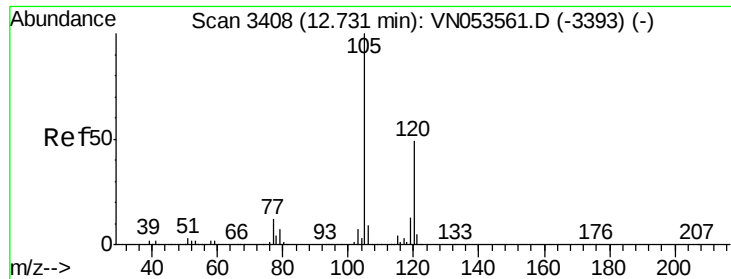
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

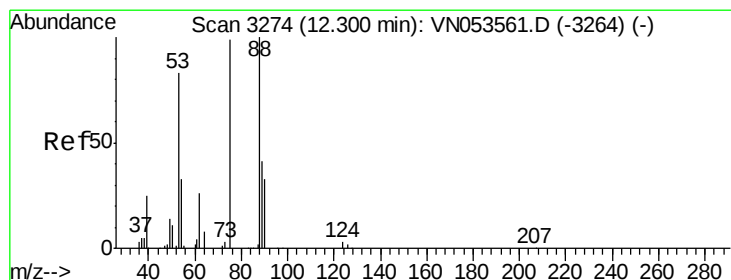
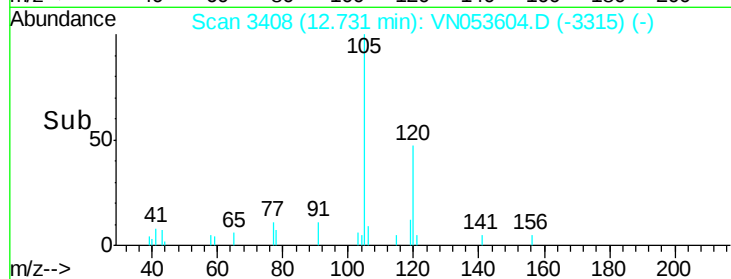
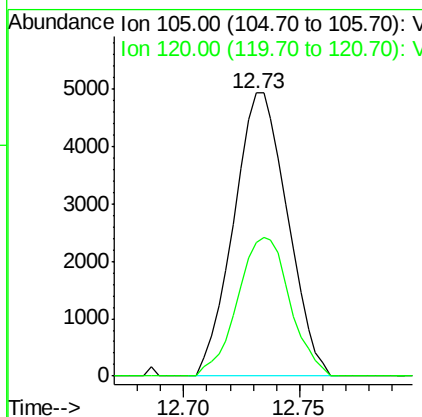
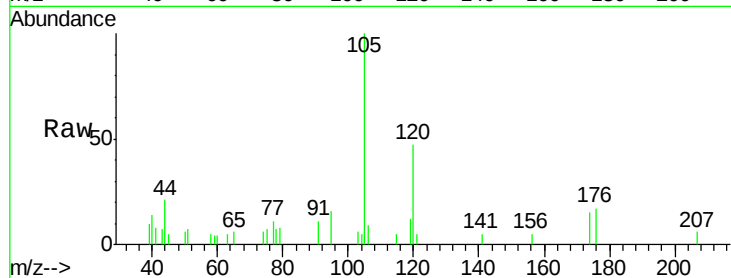




#80
 1,3,5-Trimethylbenzene
 Concen: 0.251 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN053604.D
 Acq: 4 Feb 2019 18:37

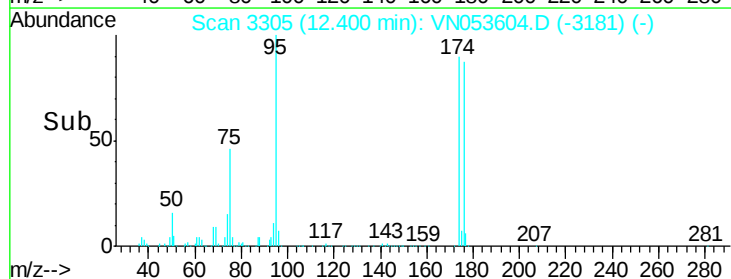
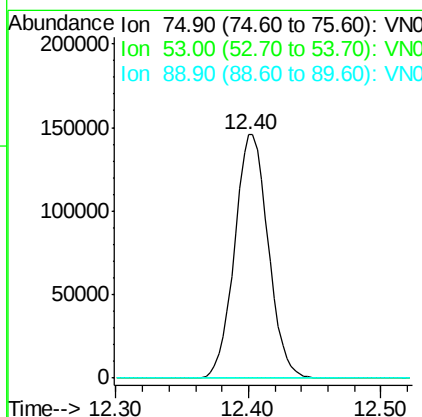
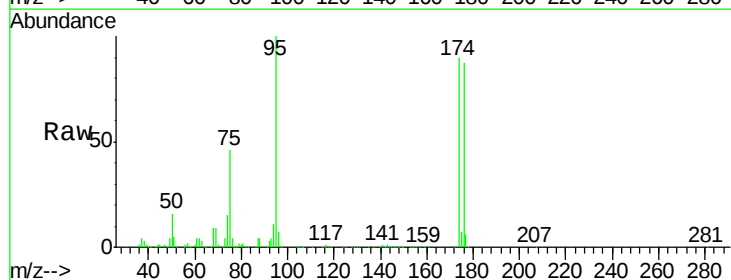
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116782TB

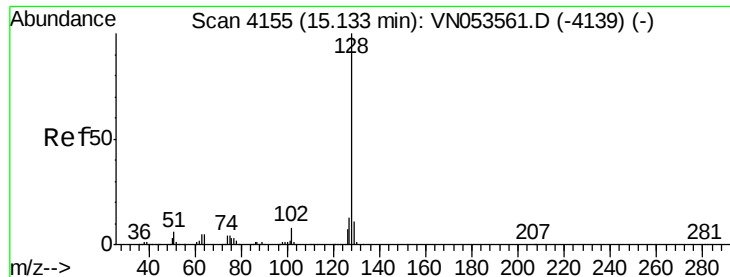
Tot Ion:105 Resp: 7923
 Ion Ratio Lower Upper
 105 100
 120 47.6 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 103.618 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053604.D
 Acq: 4 Feb 2019 18:37

Tgt Ion: 75 Resp: 256145
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#





#95

Naphthalene

Concen: 2.043 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053604.D

Acq: 4 Feb 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

PB116782TB

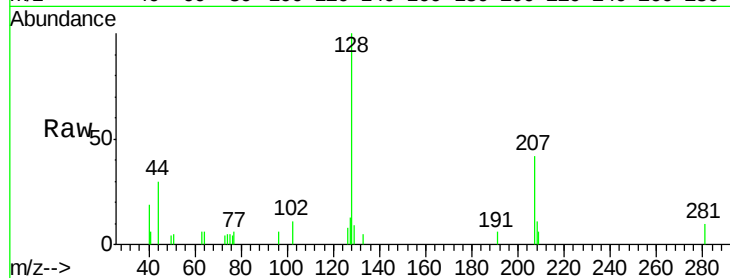
Tot Ion:128 Resp: 7546

Ion Ratio Lower Upper

128 100

127 11.4 10.3 15.5

129 8.1 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

