

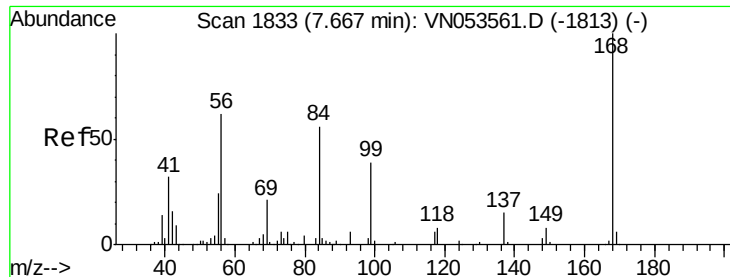
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053812.D
 Acq On : 15 Feb 2019 20:39
 Operator : JC/SP
 Sample : PB117124ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 23:28:33 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	660953	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1108276	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1046617	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	413165	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	355988	53.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.38%	
35) Dibromofluoromethane	7.59	113	355078	50.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.40%	
50) Toluene-d8	10.09	98	1348749	51.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.58%	
62) 4-Bromofluorobenzene	12.40	95	443060	50.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.04%	
Target Compounds				Qvalue		
16) Acetone	3.82	43	16226	9.540	ug/l	99
18) Methyl Acetate	4.33	43	1661	0.330	ug/l	100
20) Methylene Chloride	4.56	84	11014	1.544	ug/l	90
25) 2-Butanone	6.85	43	3584	1.478	ug/l	92
29) Tetrahydrofuran	7.22	42	1768	1.135	ug/l #	56
31) Cyclohexane	7.67	56	9352	0.667	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	38367	3.840	ug/l #	48
38) Carbon Tetrachloride	7.67	117	52447	5.211	ug/l #	17
43) Isopropyl Acetate	8.17	43	29627	2.749	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	1778	0.226	ug/l #	43
48) Methyl methacrylate	9.18	41	8572	1.667	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	8890	1.679	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	73021	6.231	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	13720	1.218	ug/l #	43
59) 2-Hexanone	10.77	43	178435	49.638	ug/l #	50
71) Bromoform	12.40	173	3170	0.596	ug/l #	1
74) N-amyl acetate	11.88	43	19622	2.809	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	207576	39.115	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7682	0.319	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	207576	109.988	ug/l #	15

(#) = 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: VN053812.D

Acq: 15 Feb 2019 20:39

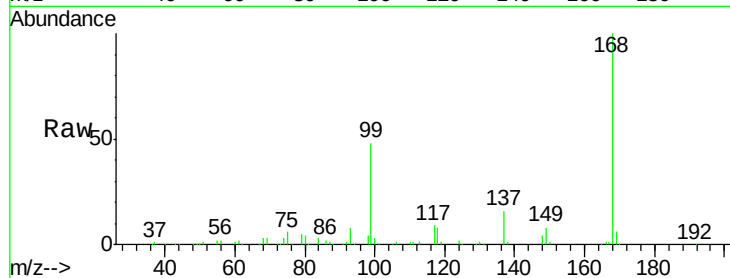
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 660953

Ion Ratio Lower Upper

168 100

99 48.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

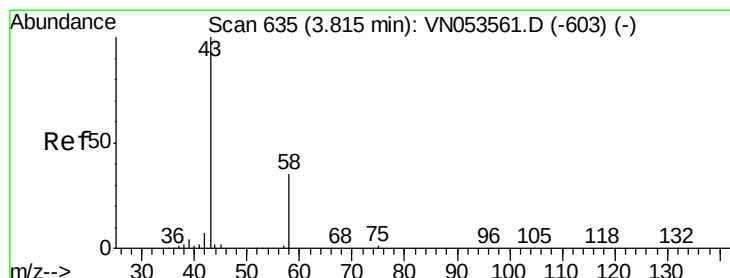
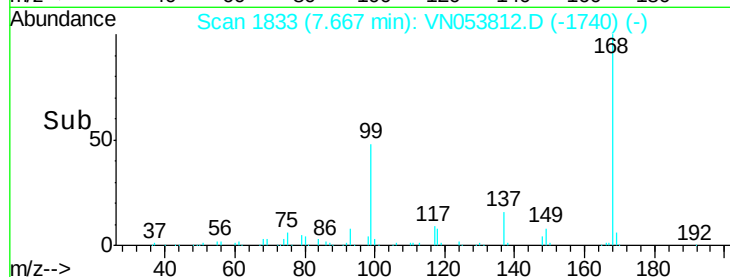
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 9.540 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053812.D

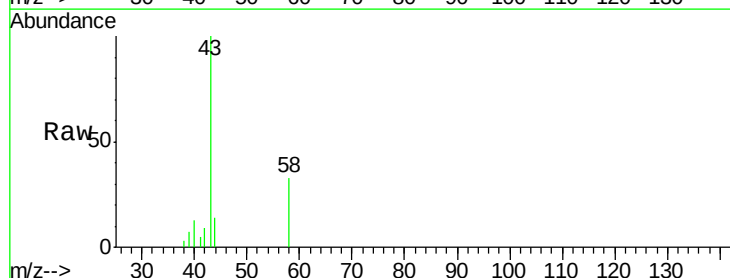
Acq: 15 Feb 2019 20:39

Tgt Ion: 43 Resp: 16226

Ion Ratio Lower Upper

43 100

58 33.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

6000

5000

4000

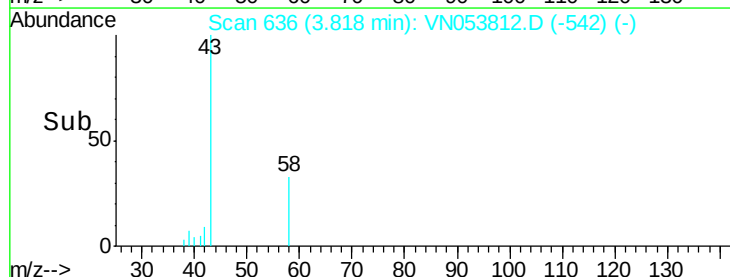
3000

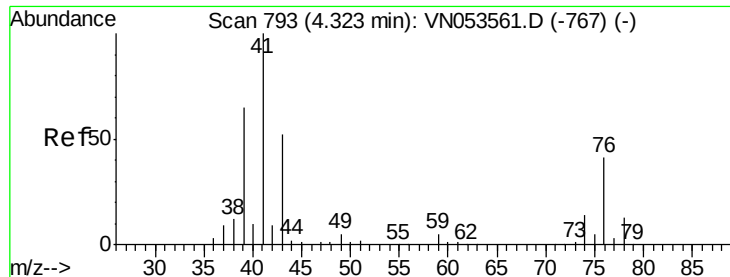
2000

1000

0

Time--> 3.70 3.80 3.90

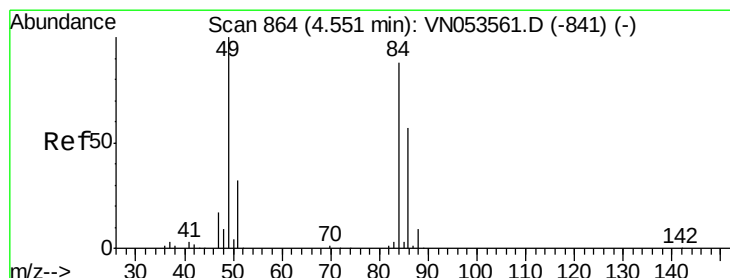
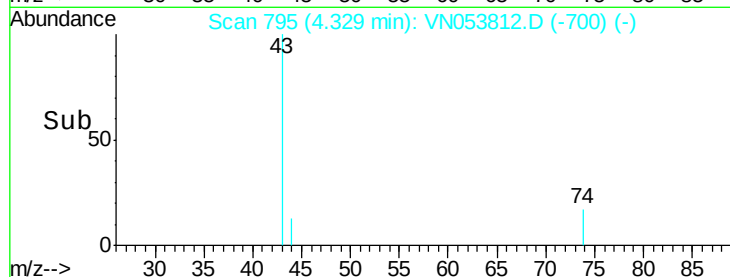
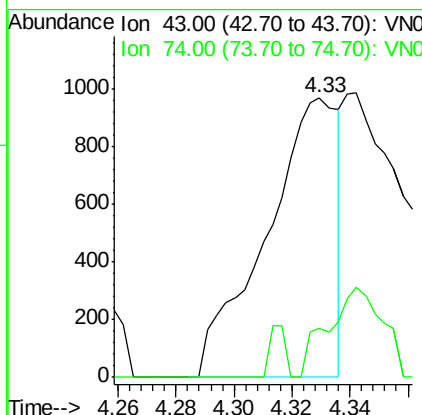
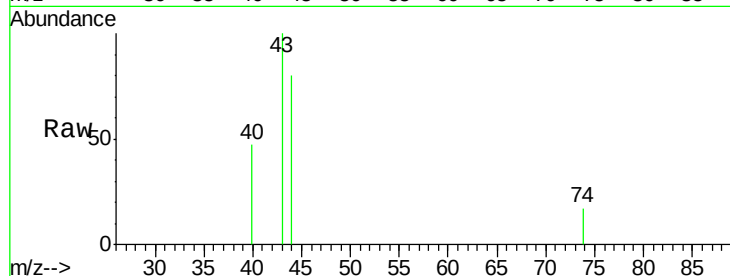




#18
Methyl Acetate
Concen: 0.330 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053812.D
Acq: 15 Feb 2019 20:39

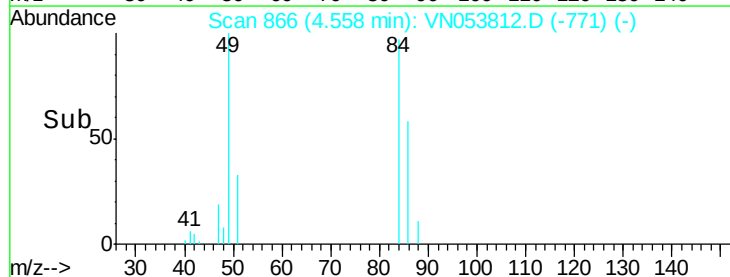
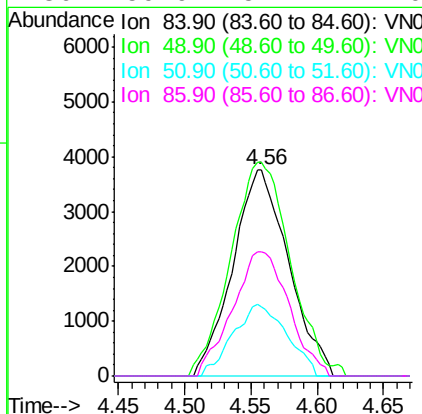
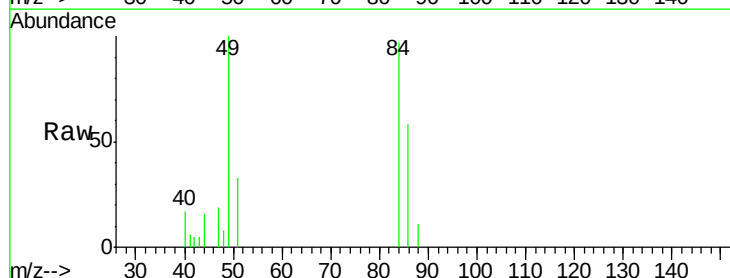
Instrument :
MSVOA_N
ClientSampled :

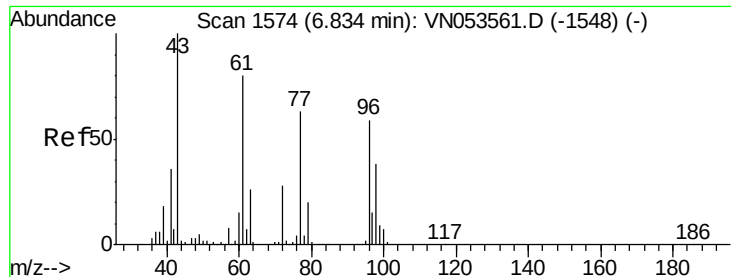
Tot Ion: 43 Resp: 1661
Ion Ratio Lower Upper
43 100
74 24.3 19.4 29.2



#20
Methylene Chloride
Concen: 1.544 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053812.D
Acq: 15 Feb 2019 20:39

Tgt Ion: 84 Resp: 11014
Ion Ratio Lower Upper
84 100
49 103.5 94.3 141.5
51 33.7 29.4 44.2
86 59.9 51.4 77.0

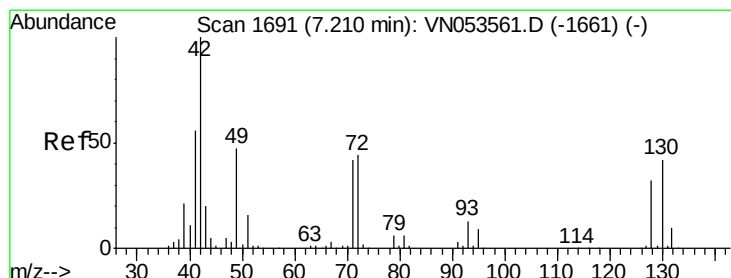
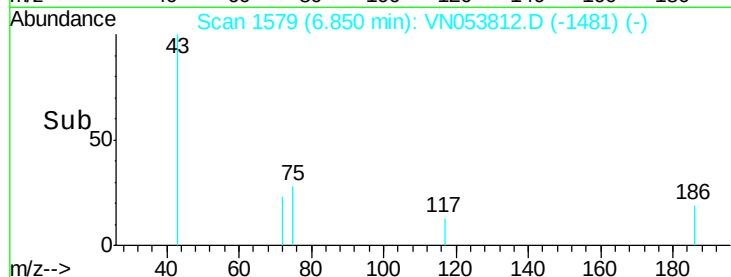
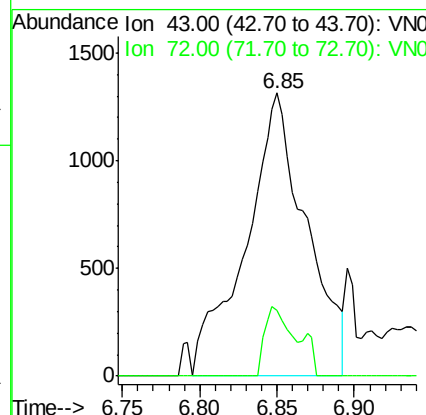
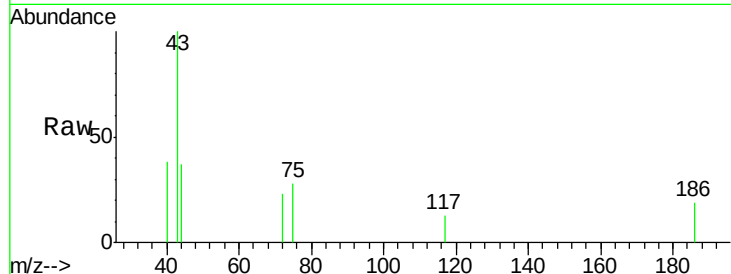




#25
 2-Butanone
 Concen: 1.478 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.02 min
 Lab File: VN053812.D
 Acq: 15 Feb 2019 20:39

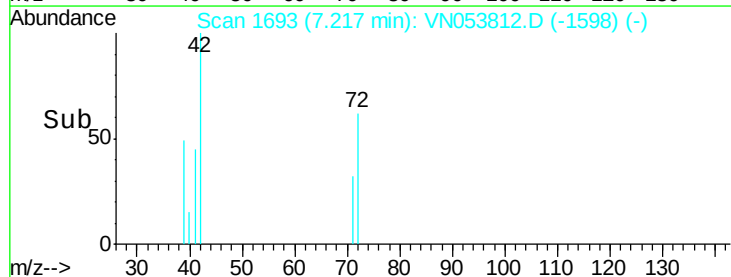
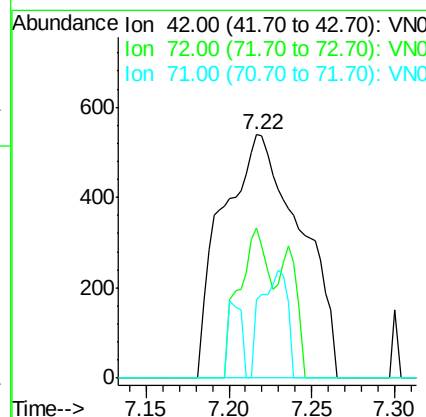
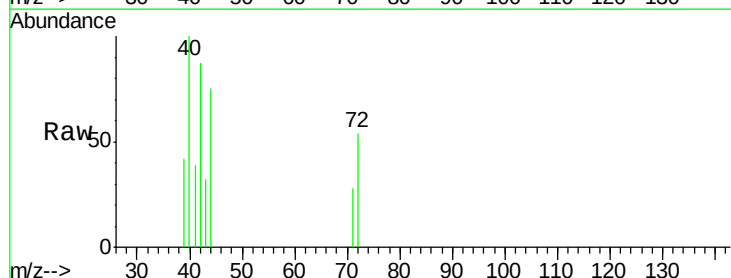
Instrument :
 MSVOA_N
 ClientSampled :

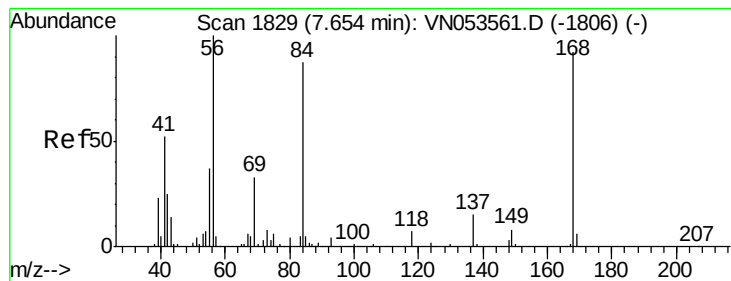
Tot Ion: 43 Resp: 3584
 Ion Ratio Lower Upper
 43 100
 72 23.3 22.0 33.0



#29
 Tetrahydrofuran
 Concen: 1.135 ug/l
 RT: 7.22 min Scan# 1693
 Delta R.T. 0.01 min
 Lab File: VN053812.D
 Acq: 15 Feb 2019 20:39

Tgt Ion: 42 Resp: 1768
 Ion Ratio Lower Upper
 42 100
 72 23.6 35.2 52.8#
 71 5.2 33.0 49.4#





#31

Cyclohexane

Concen: 0.667 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

Instrument :
MSVOA_N
ClientSampled :

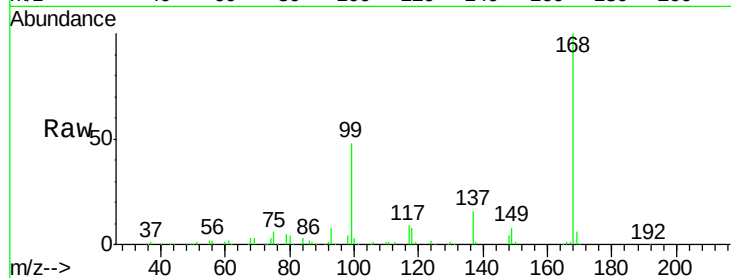
Tot Ion: 56 Resp: 9352

Ion Ratio Lower Upper

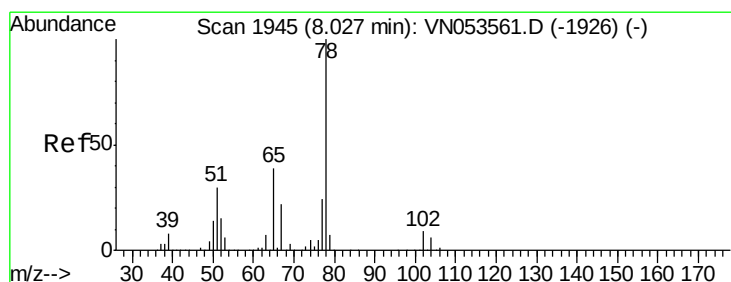
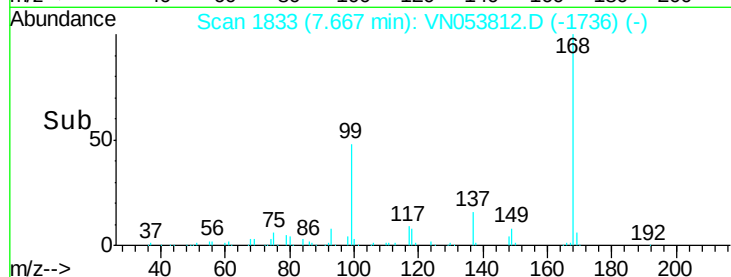
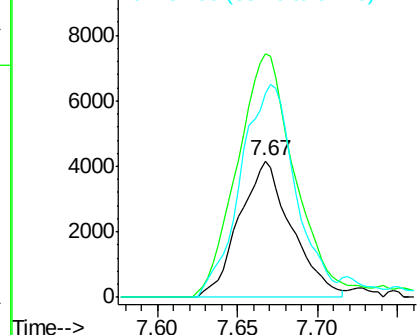
56 100

69 178.1 26.4 39.6#

84 149.3 67.9 101.9#



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: 53.688 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN053812.D

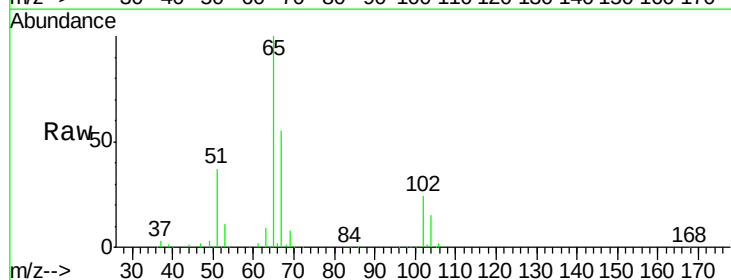
Acq: 15 Feb 2019 20:39

Tgt Ion: 65 Resp: 355988

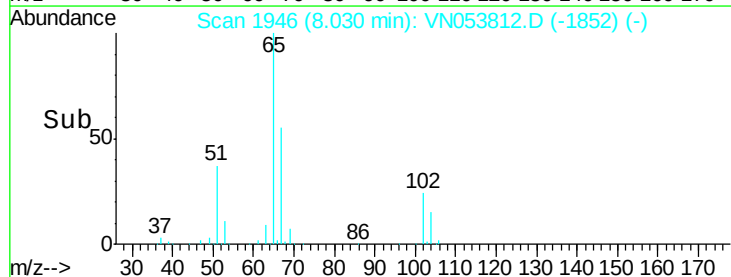
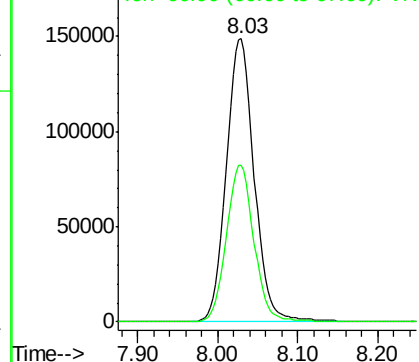
Ion Ratio Lower Upper

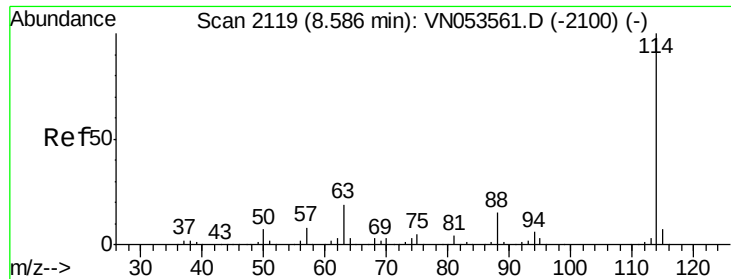
65 100

67 54.8 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

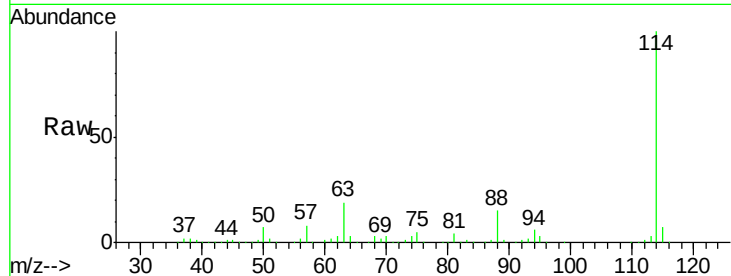




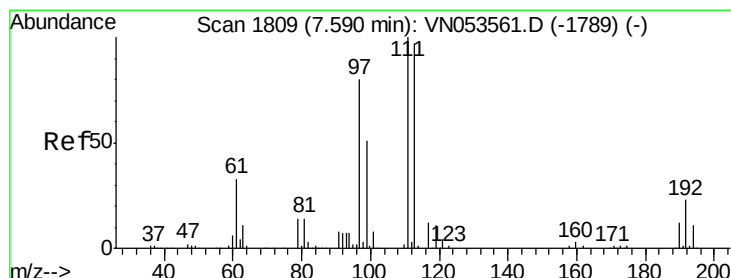
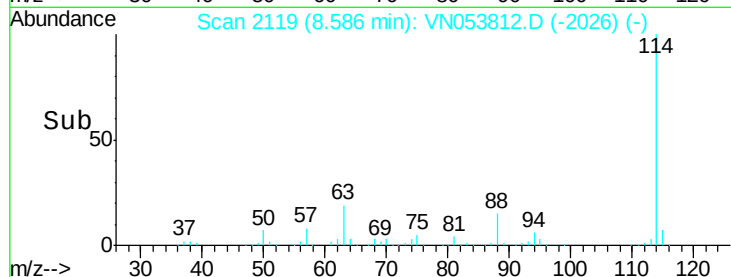
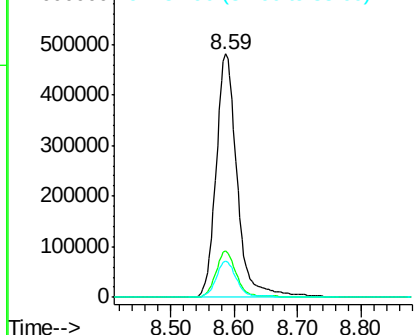
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN053812.D
 Acq: 15 Feb 2019 20:39

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 1108276
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 14.9 0.0 30.4

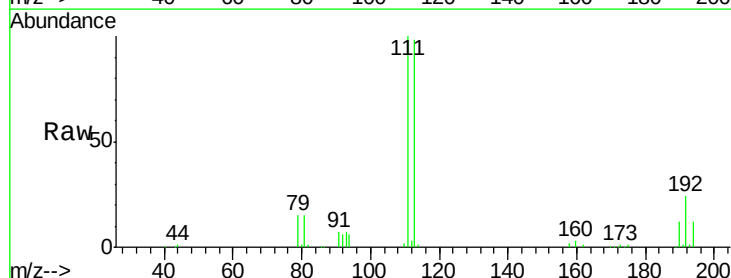


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

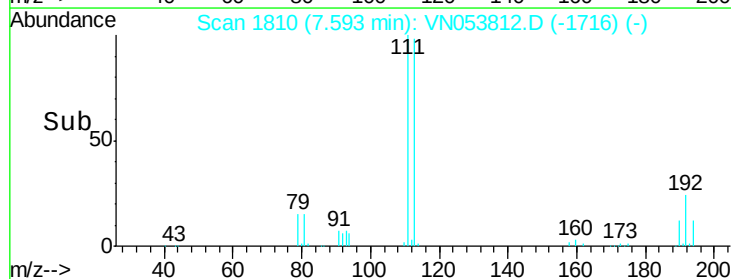
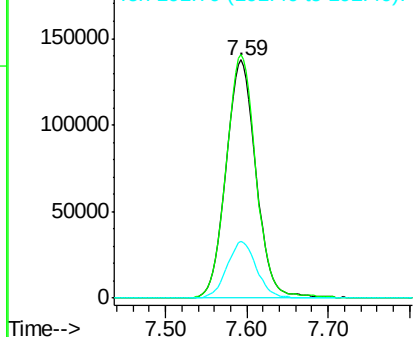


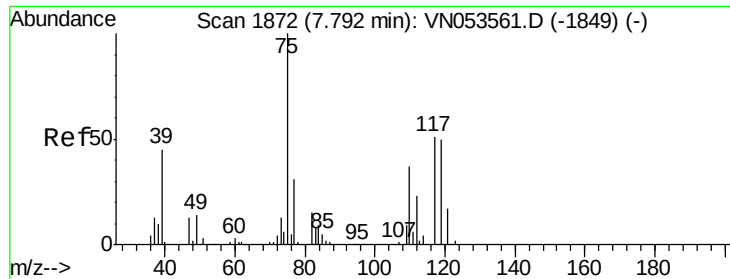
#35
 Dibromofluoromethane
 Concen: 50.705 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053812.D
 Acq: 15 Feb 2019 20:39

Tgt Ion:113 Resp: 355078
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.1 121.7
 192 23.4 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: 3.840 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

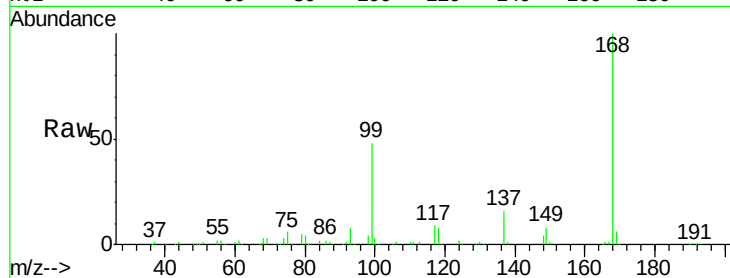
Tot Ion: 75 Resp: 38367

Ion Ratio Lower Upper

75 100

110 8.1 18.1 54.3#

77 0.0 25.1 37.7#



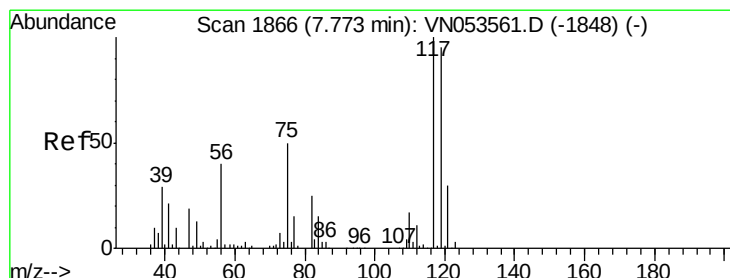
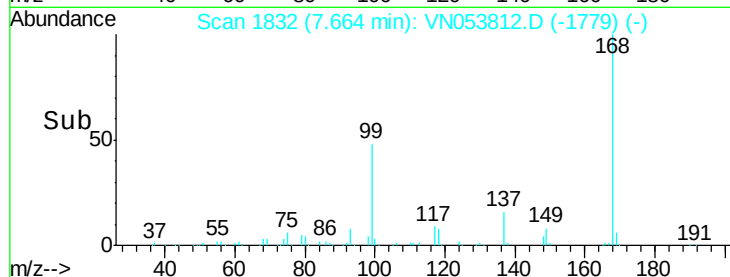
Abundance Ion 74.90 (74.60 to 75.60): VN053812.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN053812.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053812.D (-1779) (-)

7.66

Time-->



#38

Carbon Tetrachloride

Concen: 5.211 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

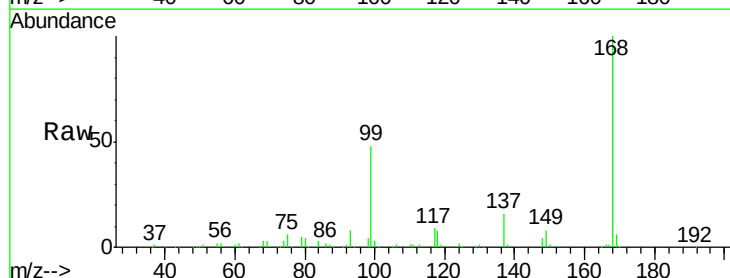
Tgt Ion: 117 Resp: 52447

Ion Ratio Lower Upper

117 100

119 6.2 77.2 115.8#

121 0.0 24.6 37.0#



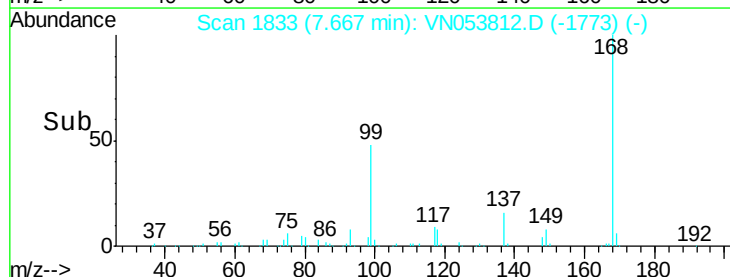
Abundance Ion 116.80 (116.50 to 117.50): VN053812.D (-1773) (-)

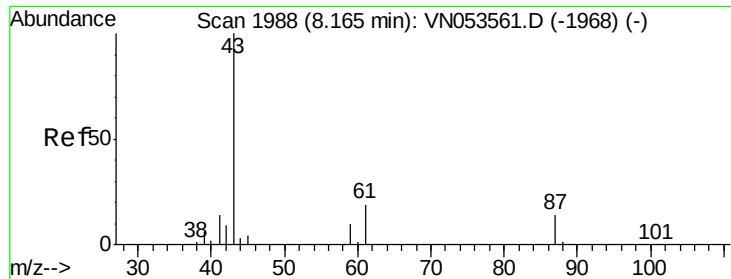
Ion 118.80 (118.50 to 119.50): VN053812.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053812.D (-1773) (-)

7.67

Time-->





#43

Isopropyl Acetate

Concen: 2.749 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

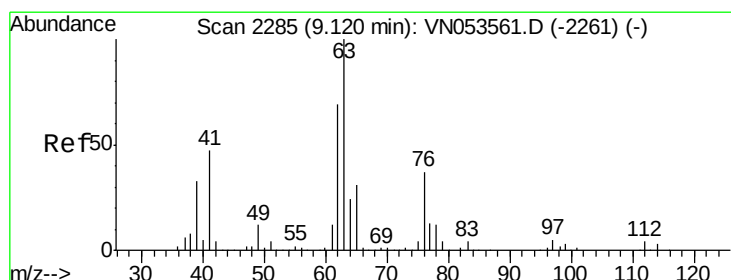
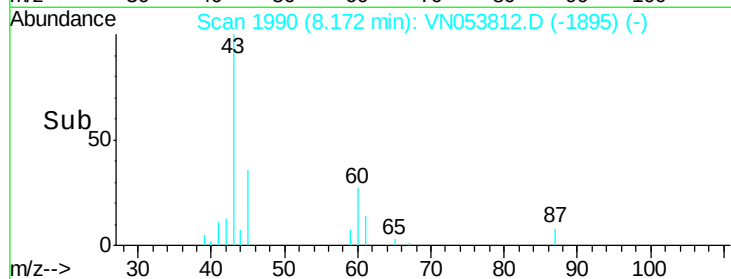
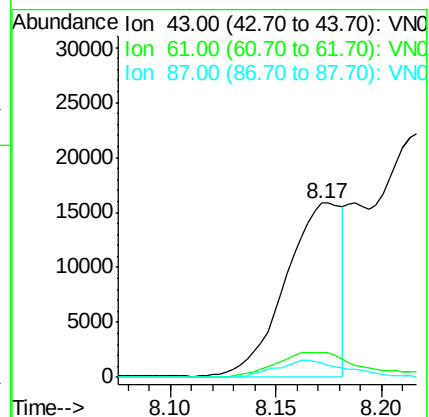
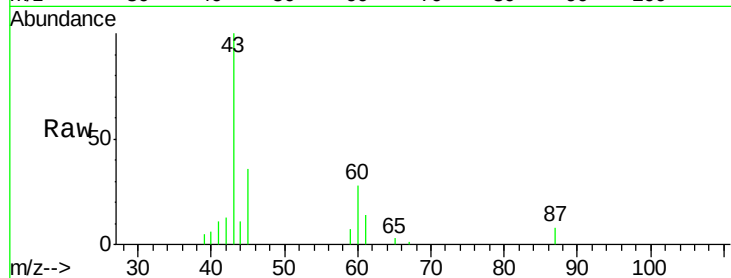
Tot Ion: 43 Resp: 29627

Ion Ratio Lower Upper

43 100

61 21.4 23.9 35.9#

87 12.0 11.0 16.6



#45

1,2-Dichloropropane

Concen: 0.226 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053812.D

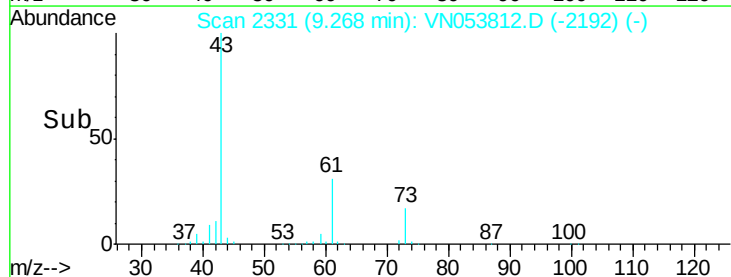
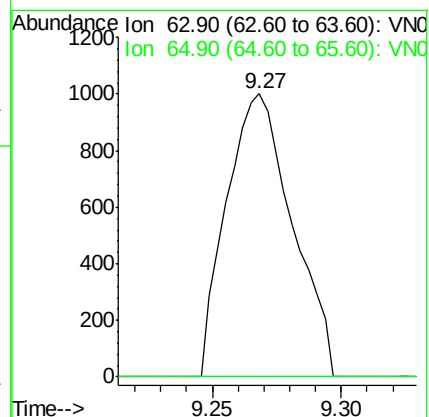
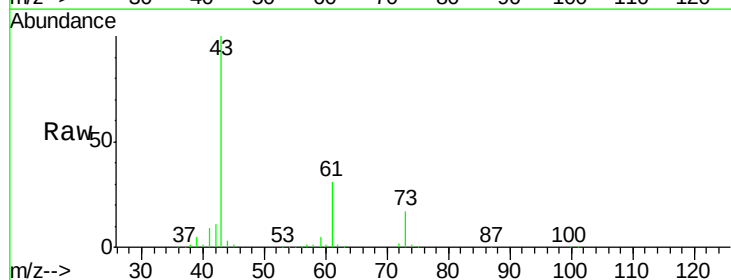
Acq: 15 Feb 2019 20:39

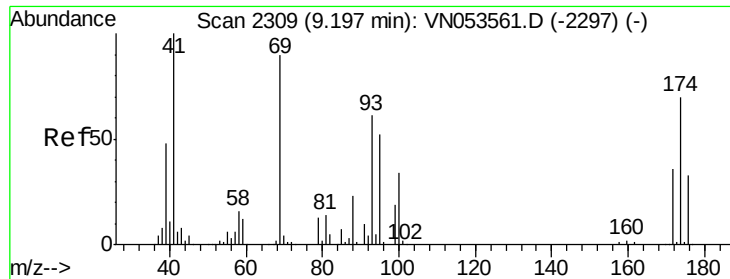
Tgt Ion: 63 Resp: 1778

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

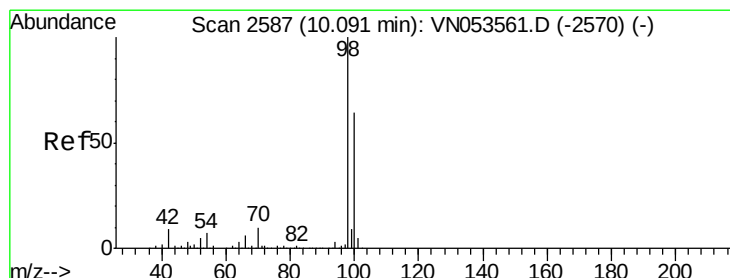
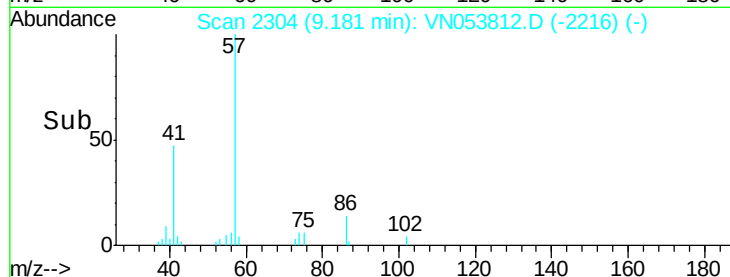
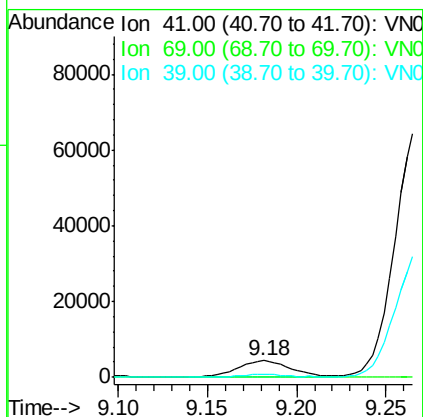
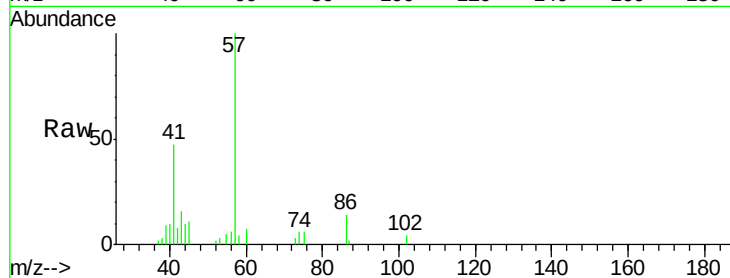




#48
Methvl methacrylate
Concen: 1.667 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053812.D
Acq: 15 Feb 2019 20:39

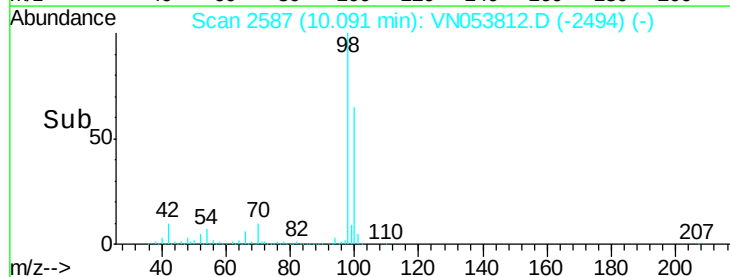
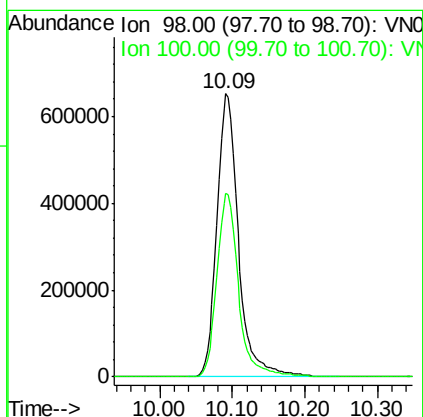
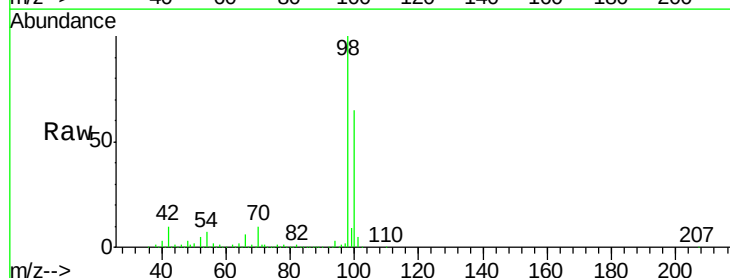
Instrument :
MSVOA_N
ClientSampleId :

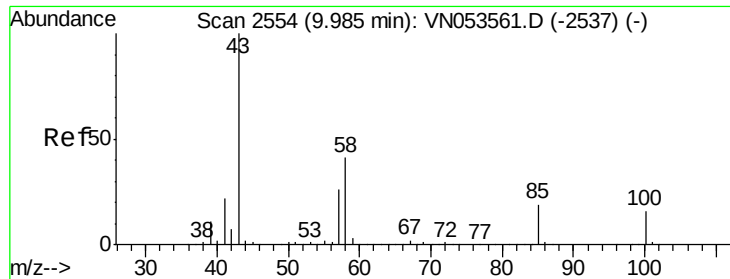
Tot Ion: 41 Resp: 8572
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#50
Toluene-d8
Concen: 51.294 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053812.D
Acq: 15 Feb 2019 20:39

Tgt Ion: 98 Resp: 1348749
Ion Ratio Lower Upper
98 100
100 65.1 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 1.679 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

Instrument :

MSVOA_N

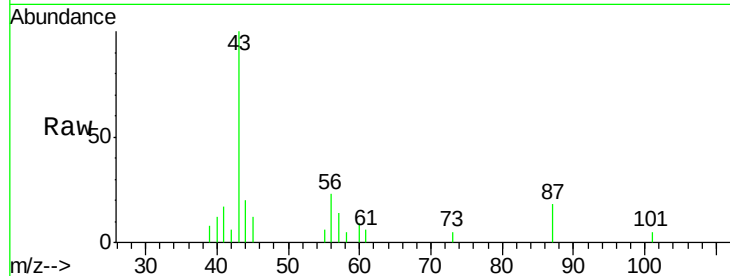
ClientSampleId :

Tot Ion: 43 Resp: 8890

Ion Ratio Lower Upper

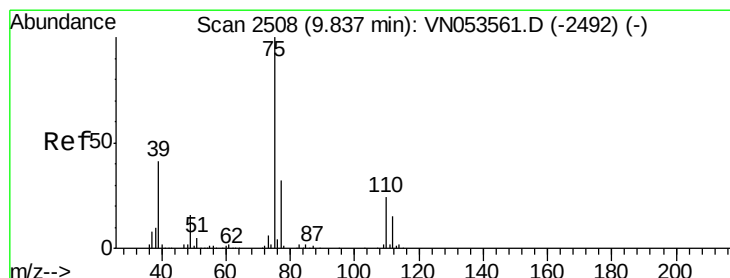
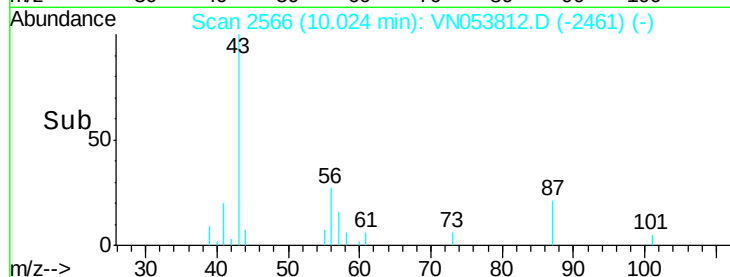
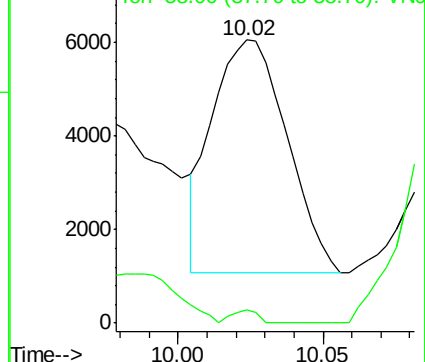
43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.231 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

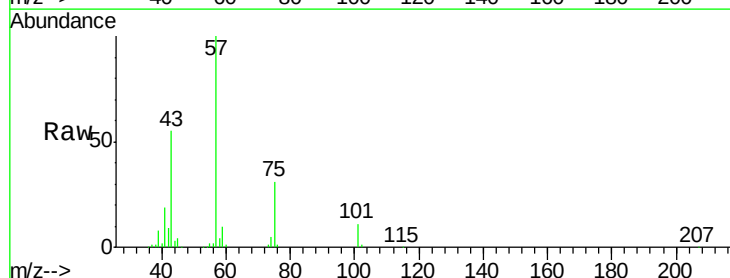
Tgt Ion: 75 Resp: 73021

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

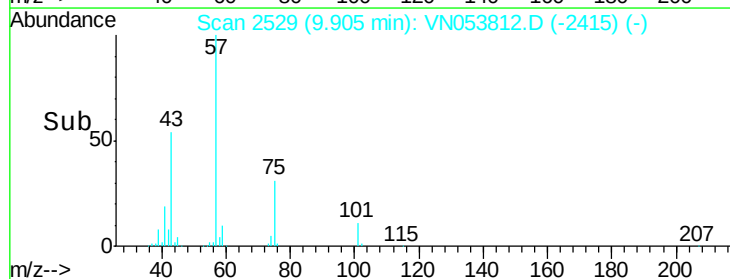
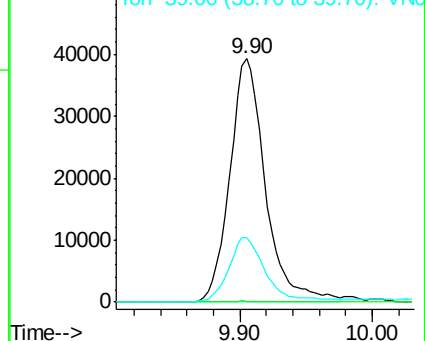
39 26.2 33.4 50.0#

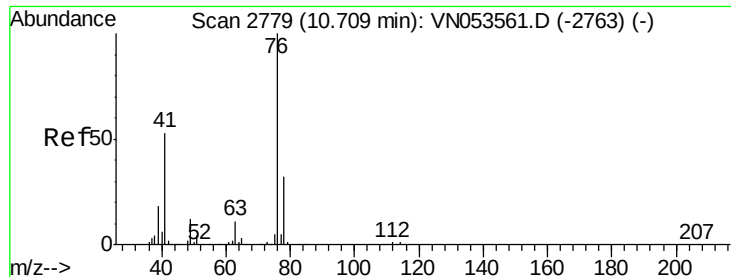


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

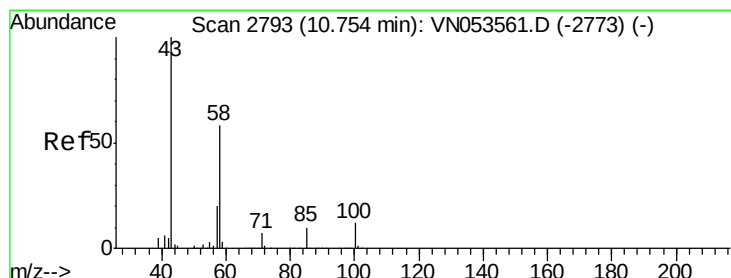
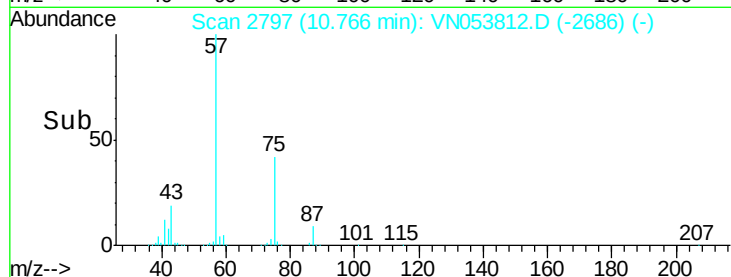
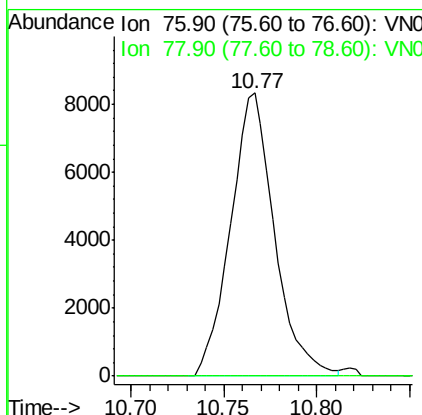
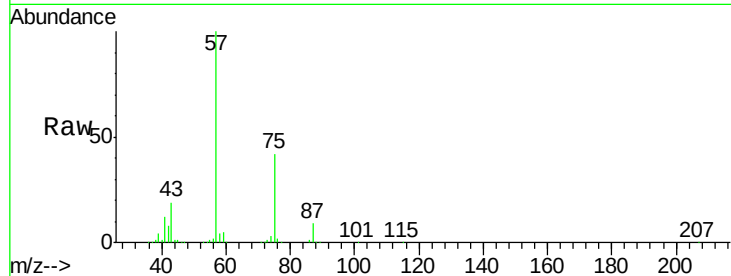




#57
 1,3-Dichloropropane
 Concen: 1.218 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053812.D
 Acq: 15 Feb 2019 20:39

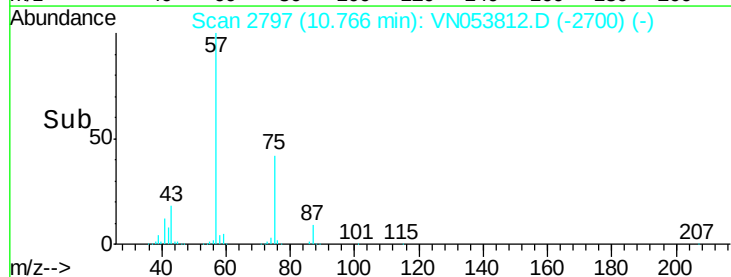
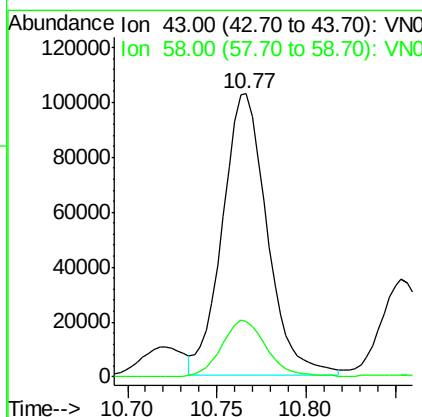
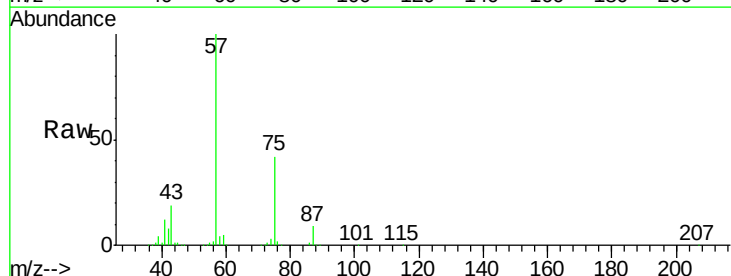
Instrument :
 MSVOA_N
 ClientSampleId :

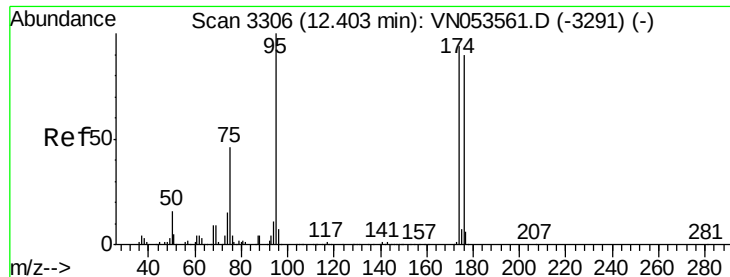
Tot Ion: 76 Resp: 13720
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 49.638 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN053812.D
 Acq: 15 Feb 2019 20:39

Tgt Ion: 43 Resp: 178435
 Ion Ratio Lower Upper
 43 100
 58 20.3 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 50.522 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

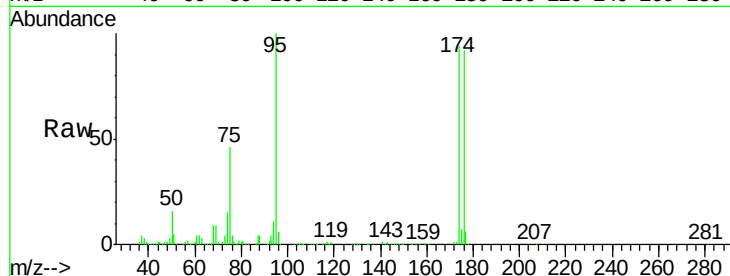
Tot Ion: 95 Resp: 443060

Ion Ratio Lower Upper

95 100

174 95.1 0.0 183.2

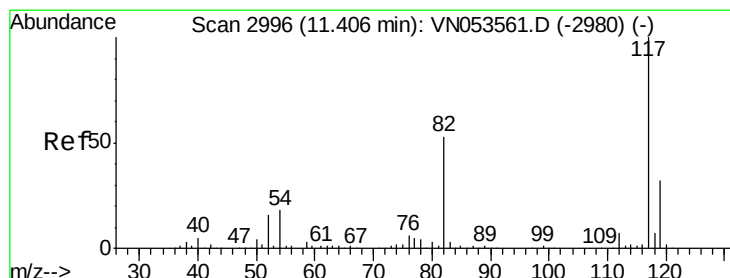
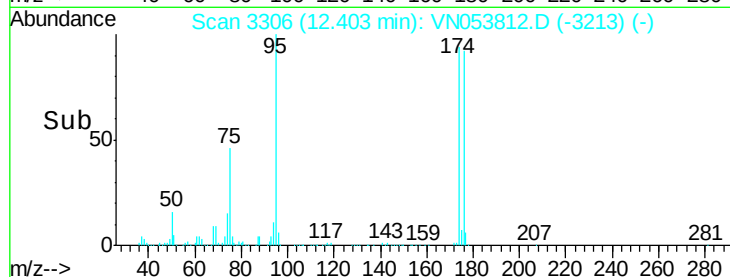
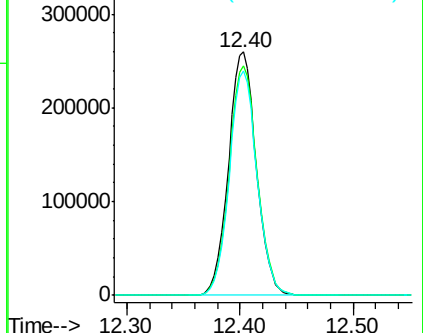
176 91.6 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053812.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053812.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053812.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

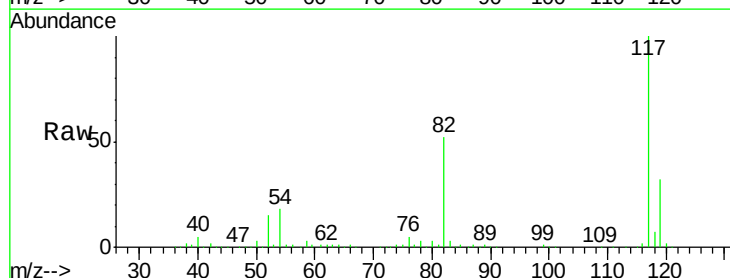
Tgt Ion: 117 Resp: 1046617

Ion Ratio Lower Upper

117 100

82 51.7 42.9 64.3

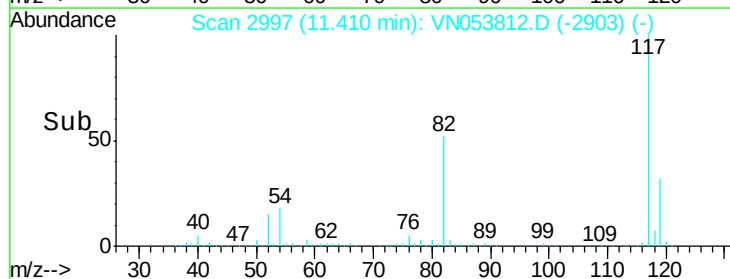
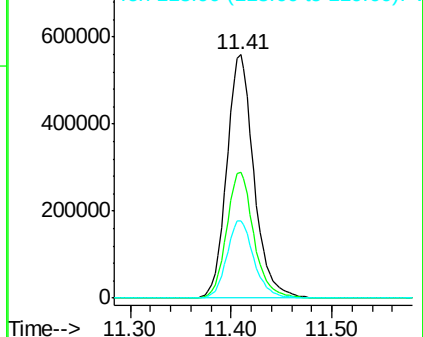
119 31.9 26.0 39.0

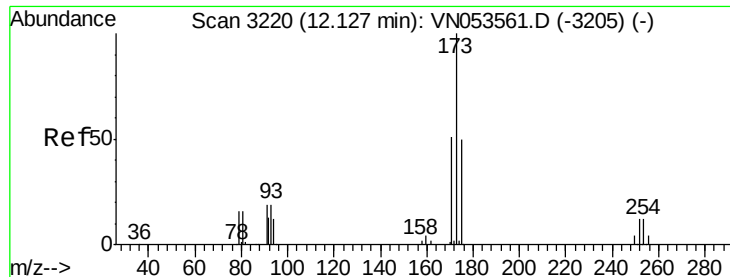


Abundance Ion 116.90 (116.60 to 117.60): VN053812.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053812.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053812.D (-2903) (-)





#71

Bromoform

Concen: 0.596 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

Instrument :

MSVOA_N

ClientSampled :

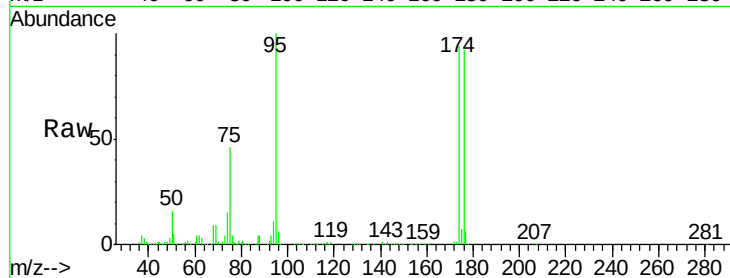
Tot Ion:173 Resp: 3170

Ion Ratio Lower Upper

173 100

175 808.3 24.6 74.0#

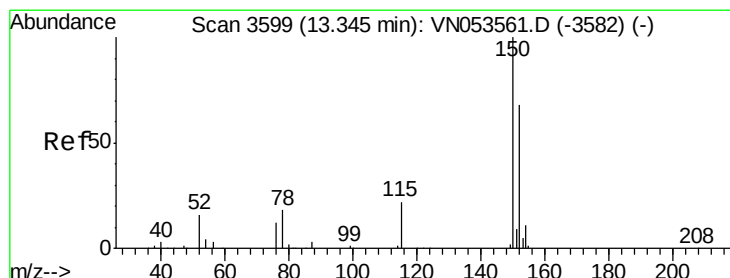
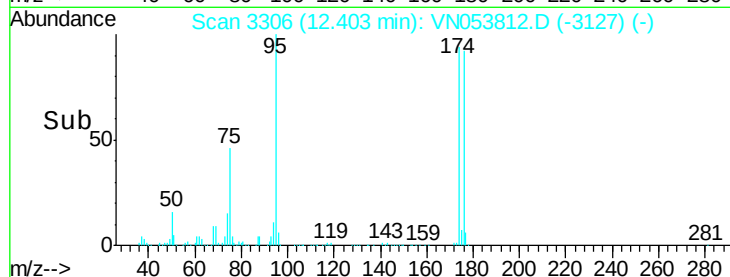
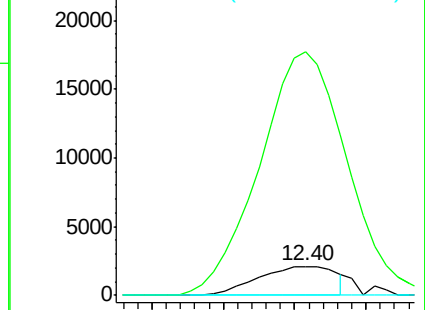
254 0.0 0.2 0.2#



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: VN053812.D

Acq: 15 Feb 2019 20:39

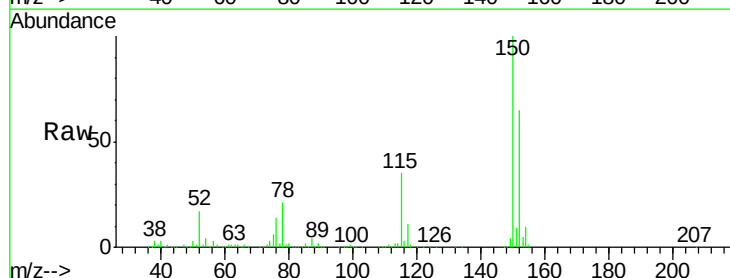
Tgt Ion:152 Resp: 413165

Ion Ratio Lower Upper

152 100

115 54.6 27.8 83.4

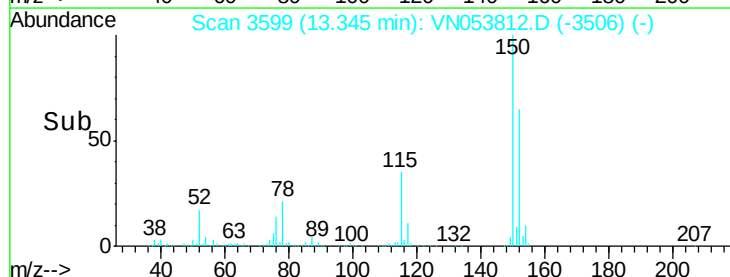
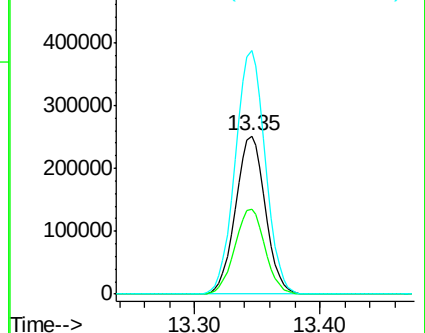
150 156.0 0.0 349.0

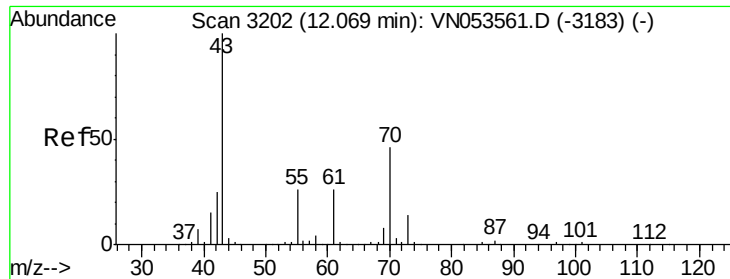


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.809 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053812.D

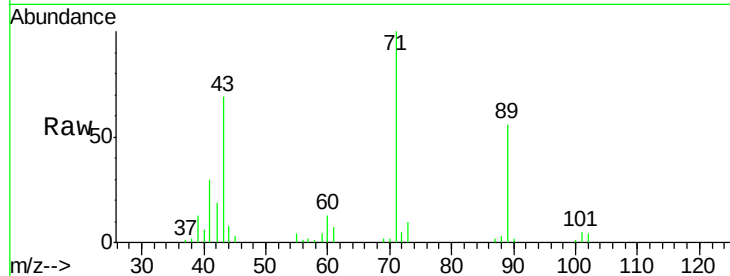
Acq: 15 Feb 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	19622
Ion	Ratio	Lower	Upper
43	100		
70	2.0	35.4	53.2#
55	5.8	20.9	31.3#
61	12.0	20.5	30.7#

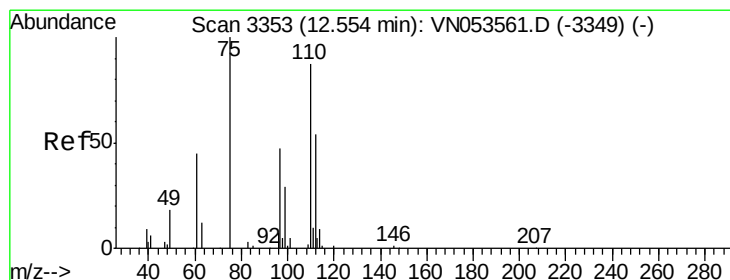
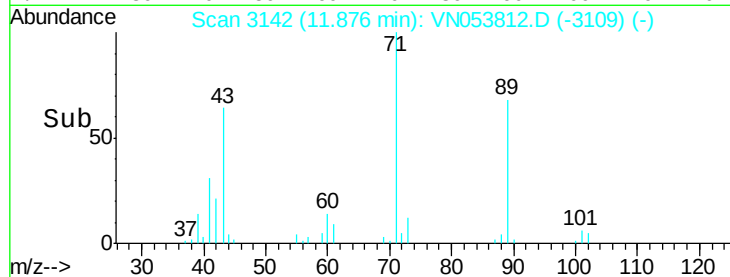
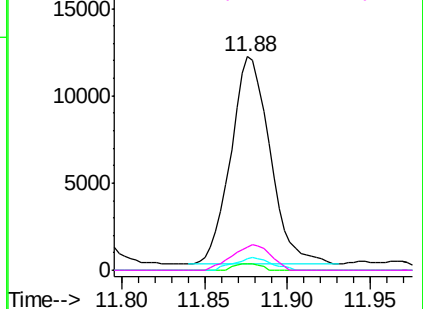


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 39.115 ug/l

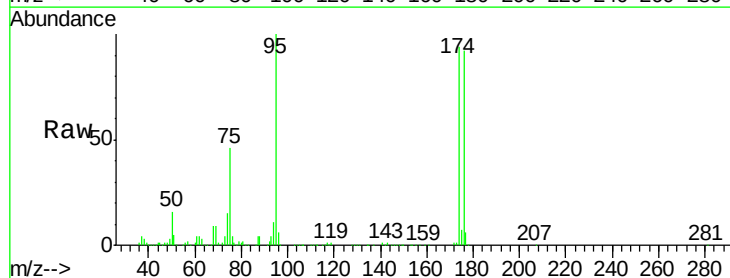
RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053812.D

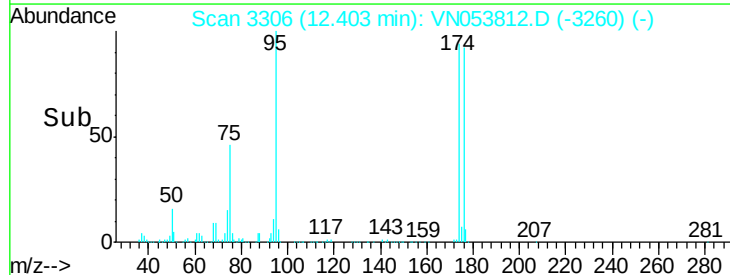
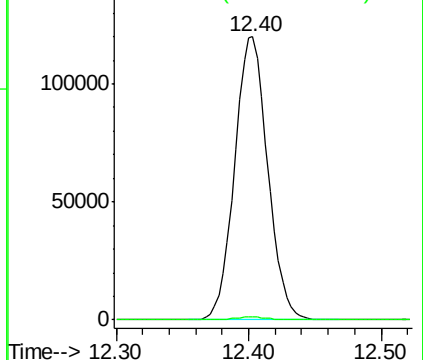
Acq: 15 Feb 2019 20:39

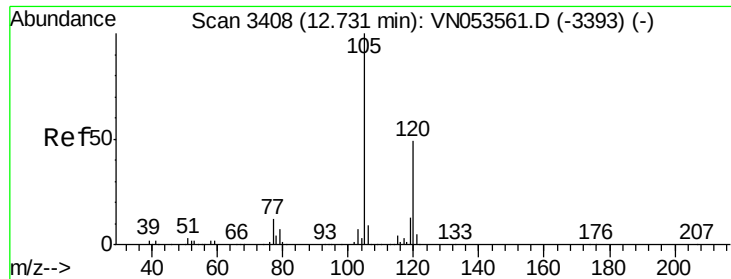
Tgt Ion:	75	Resp:	207576
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.319 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

Instrument :

MSVOA_N

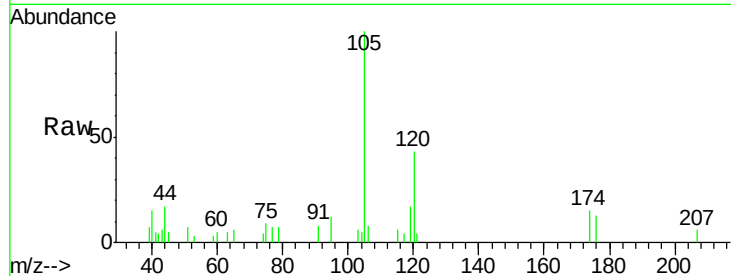
ClientSampled :

Tot Ion:105 Resp: 7682

Ion Ratio Lower Upper

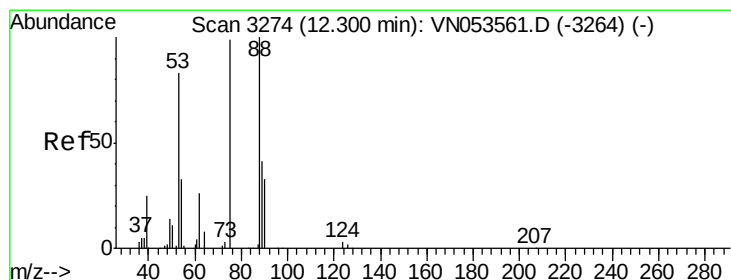
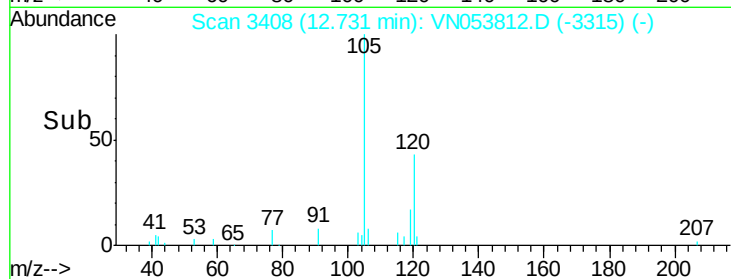
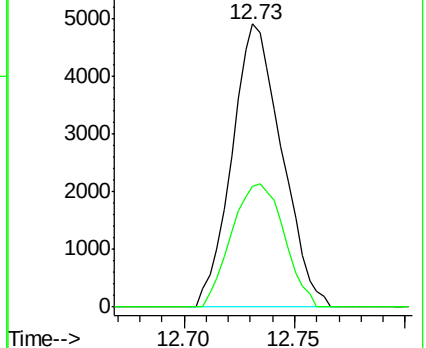
105 100

120 46.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 109.988 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053812.D

Acq: 15 Feb 2019 20:39

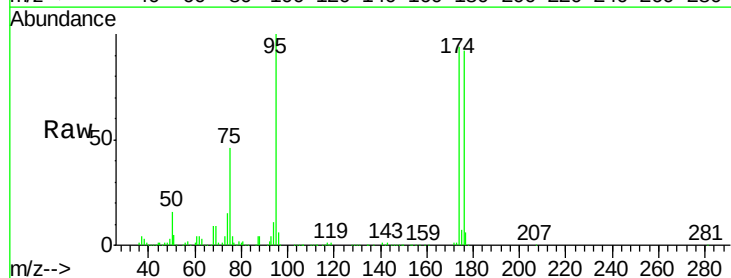
Tgt Ion: 75 Resp: 207576

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



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

