

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN021819\
 Data File : VN053837.D
 Acq On : 18 Feb 2019 12:34
 Operator : JC/SP
 Sample : PB117159ZHE#01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#01

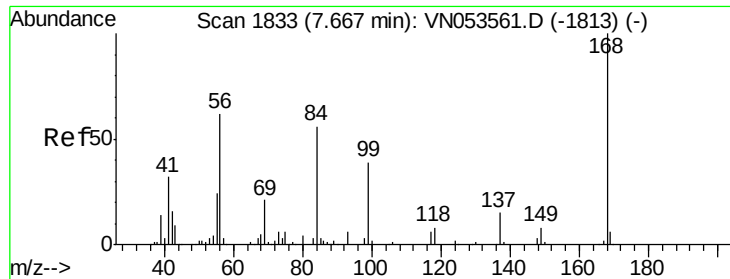
Quant Time: Feb 19 03:00:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	662220	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1104228	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1129202	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	431584	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	351961	52.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.96%	
35) Dibromofluoromethane	7.59	113	351446	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
50) Toluene-d8	10.09	98	1353165	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.40	95	476181	54.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.00%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	277	0.375	ug/l #	42
16) Acetone	3.82	43	21042	12.348	ug/l	99
18) Methyl Acetate	4.34	43	3039	0.602	ug/l #	65
20) Methylene Chloride	4.56	84	9259	1.295	ug/l	95
25) 2-Butanone	6.83	43	560	0.230	ug/l #	47
29) Tetrahydrofuran	7.23	42	889	0.570	ug/l #	68
31) Cyclohexane	7.66	56	9136	0.646	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	38541	3.872	ug/l #	49
38) Carbon Tetrachloride	7.67	117	53392	5.325	ug/l #	16
43) Isopropyl Acetate	8.17	43	31060	2.893	ug/l #	82
45) 1,2-Dichloropropane	9.26	63	1879	0.239	ug/l #	43
48) Methyl methacrylate	9.18	41	8889	1.734	ug/l #	12
49) 1,4-Dioxane	9.26	88	109	40.509	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7500	1.422	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	65203	5.584	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	12180	1.086	ug/l #	43
59) 2-Hexanone	10.76	43	162808	45.457	ug/l #	51
71) Bromoform	12.40	173	3425	0.596	ug/l #	1
74) N-amyl acetate	11.88	43	19051	2.611	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	219217	39.545	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	17787	0.707	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	219217	111.198	ug/l #	15
95) Naphthalene	15.13	128	1009	1.788	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN053837.D

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MSVOA_N

ClientSampleId :

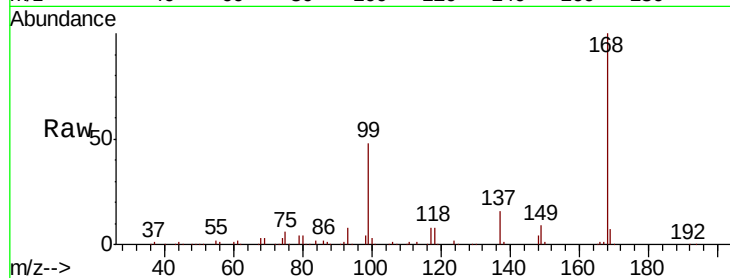
PB117159ZHE#01

Tgt Ion:168 Resp: 662220

Ion Ratio Lower Upper

168 100

99 47.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

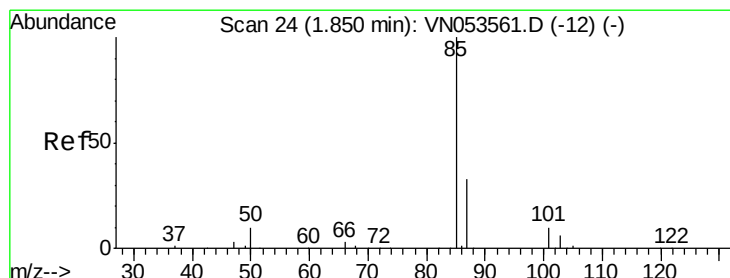
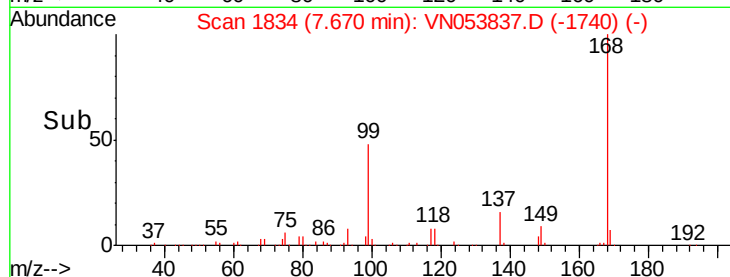
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 0.375 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053837.D

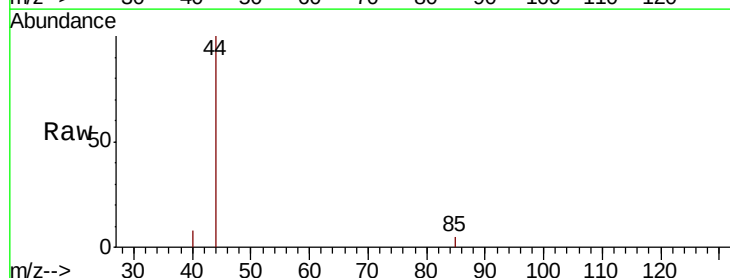
Acq: 18 Feb 2019 12:34

Tgt Ion: 85 Resp: 277

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

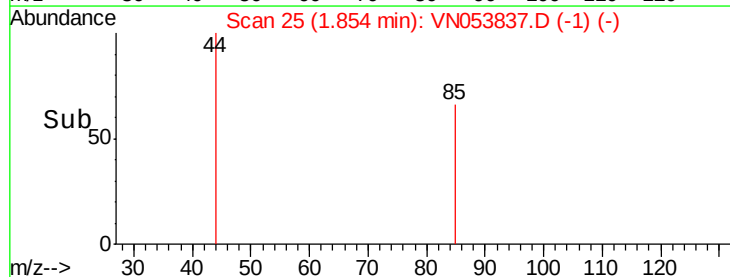
300

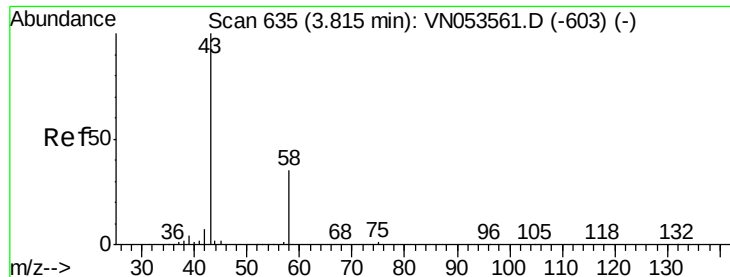
200

100

0

Time--> 1.84 1.86 1.88





#16

Acetone

Concen: 12.348 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

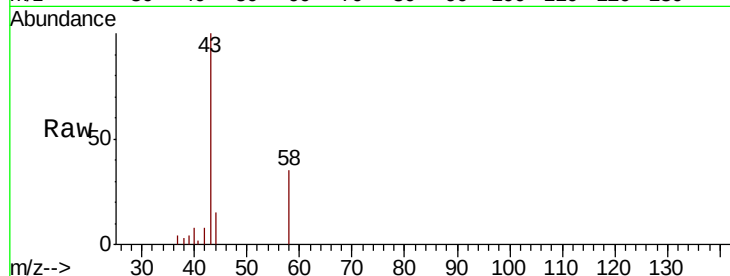
PB117159ZHE#01

Tgt Ion: 43 Resp: 21042

Ion Ratio Lower Upper

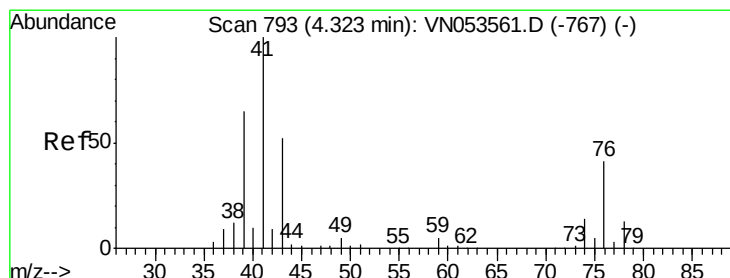
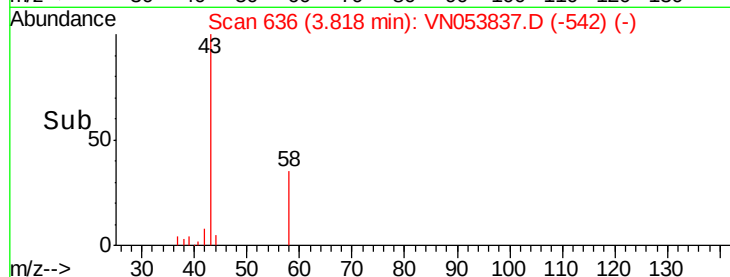
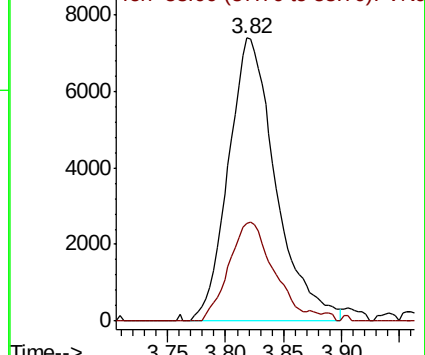
43 100

58 34.6 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.602 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN053837.D

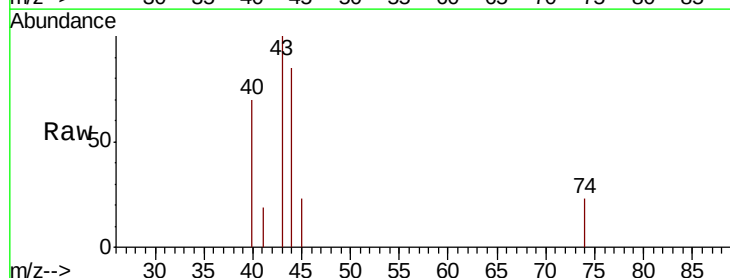
Acq: 18 Feb 2019 12:34

Tgt Ion: 43 Resp: 3039

Ion Ratio Lower Upper

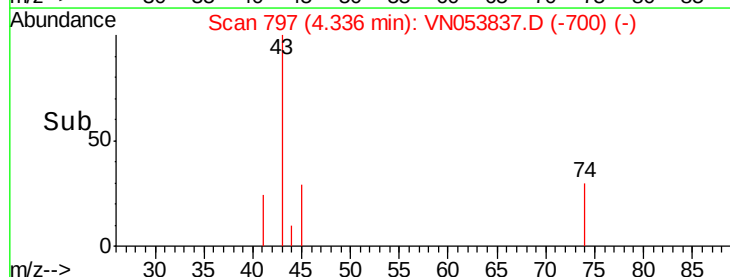
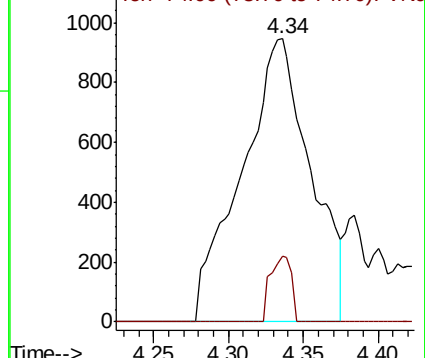
43 100

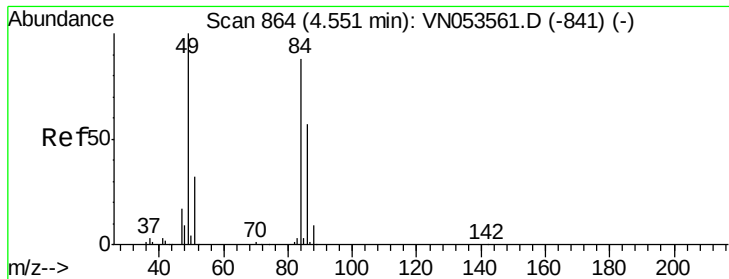
74 7.1 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 1.295 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.01 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01

Tgt Ion: 84 Resp: 9259

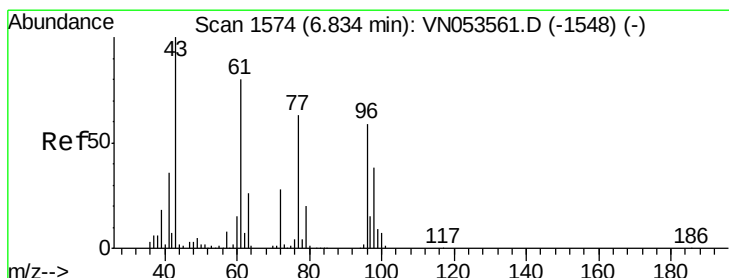
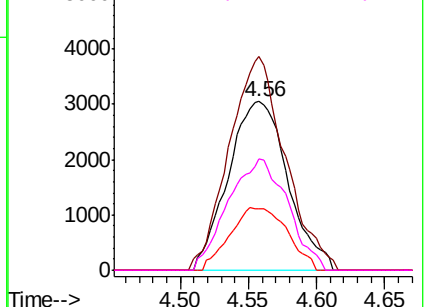
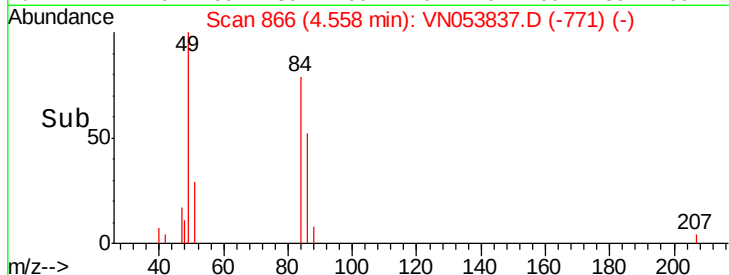
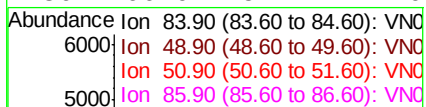
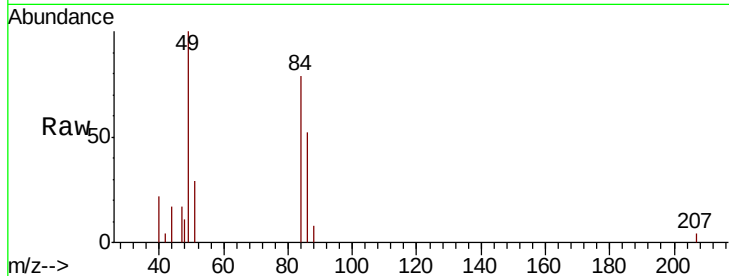
Ion Ratio Lower Upper

84 100

49 126.7 94.3 141.5

51 36.4 29.4 44.2

86 66.0 51.4 77.0



#25

2-Butanone

Concen: 0.230 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VN053837.D

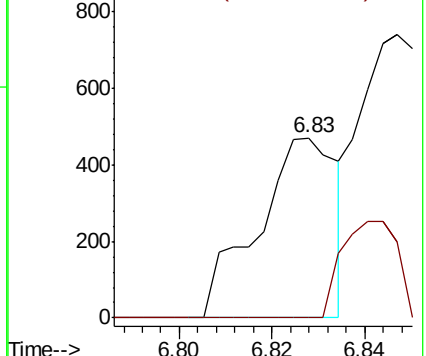
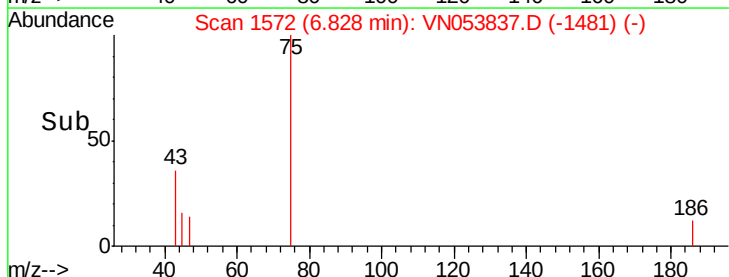
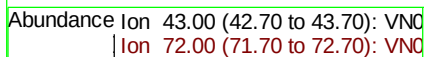
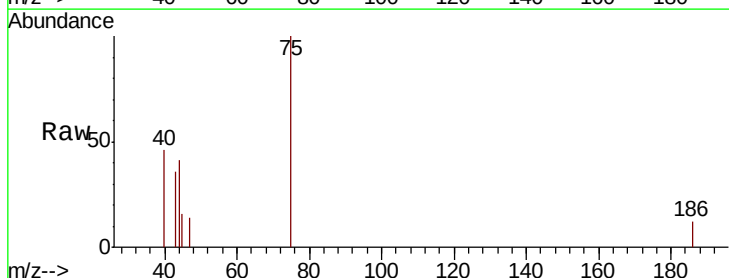
Acq: 18 Feb 2019 12:34

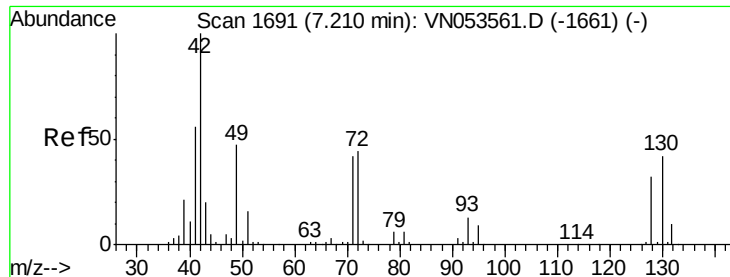
Tgt Ion: 43 Resp: 560

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#





#29

Tetrahydrofuran

Concen: 0.570 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01

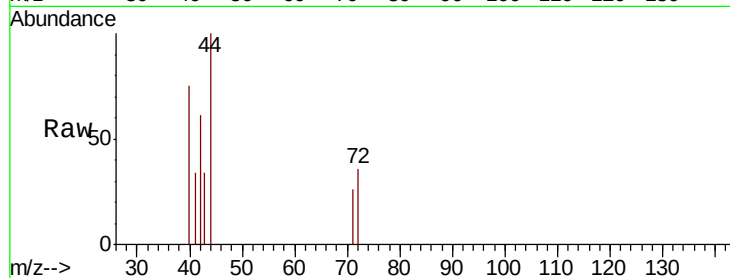
Tgt Ion: 42 Resp: 889

Ion Ratio Lower Upper

42 100

72 27.1 35.2 52.8#

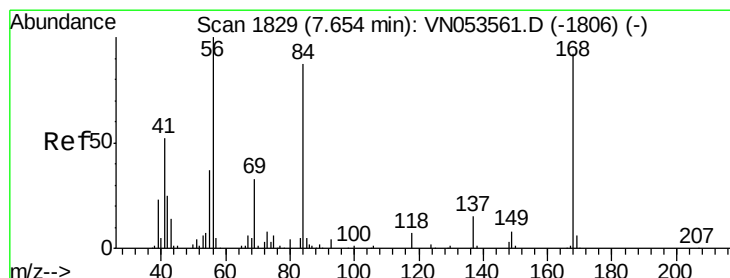
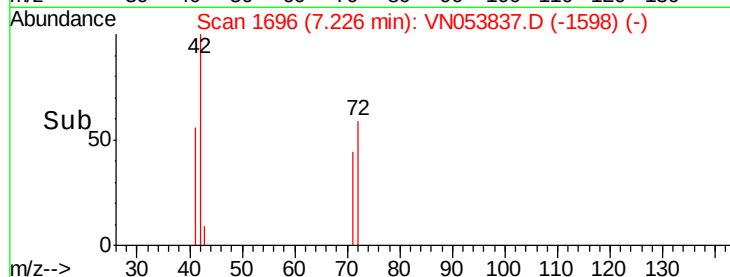
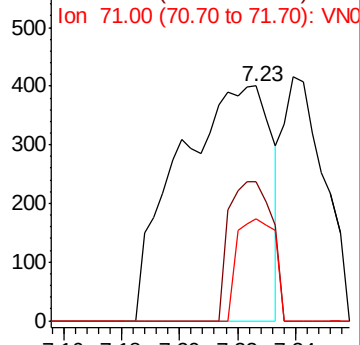
71 17.5 33.0 49.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.646 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

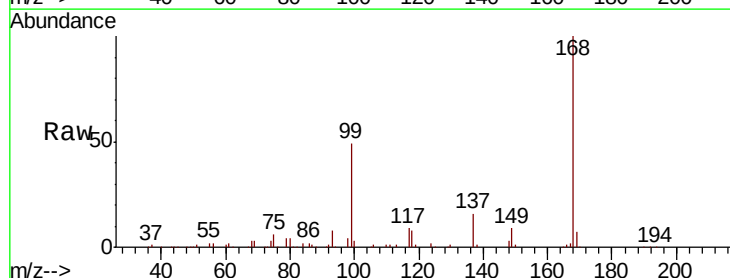
Tgt Ion: 56 Resp: 9136

Ion Ratio Lower Upper

56 100

69 176.2 26.4 39.6#

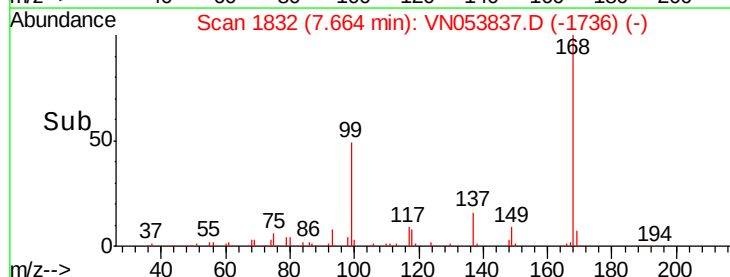
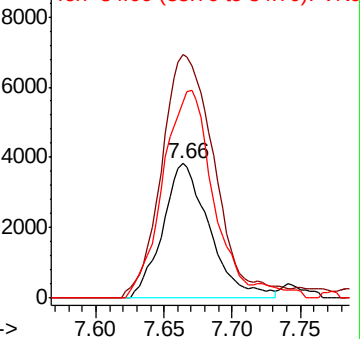
84 145.5 67.9 101.9#

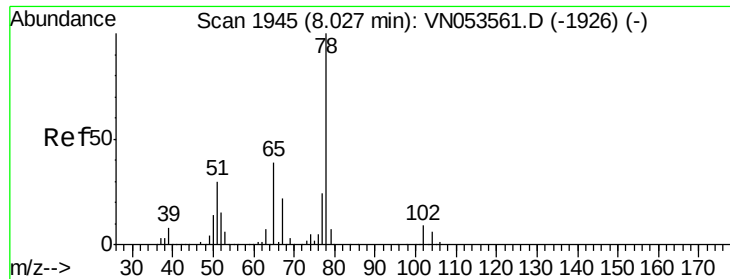


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

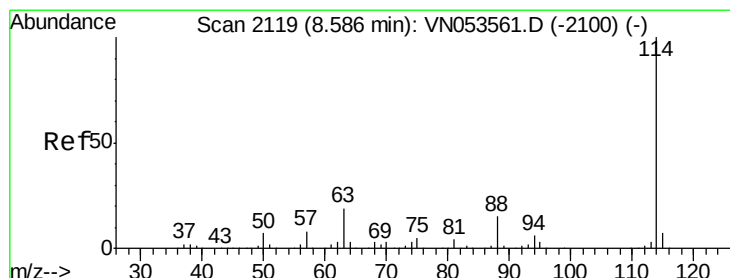
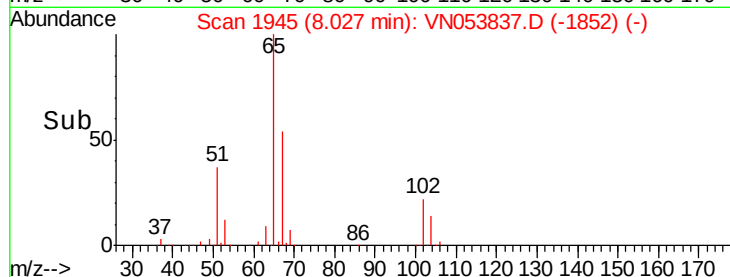
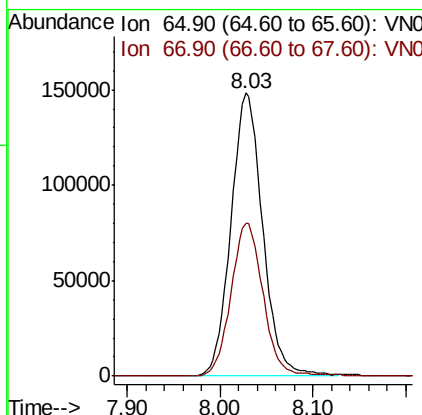
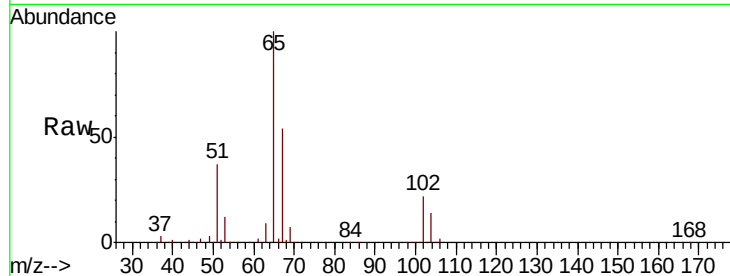




#33
 1,2-Dichloroethane-d4
 Concen: 52.980 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

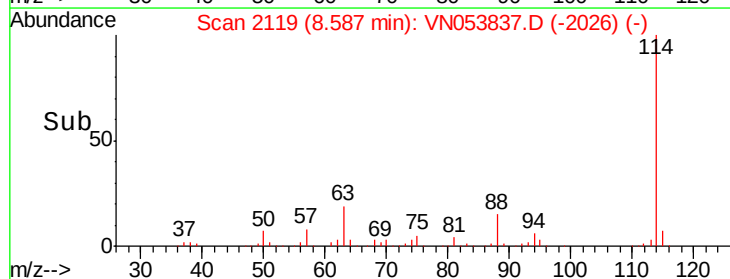
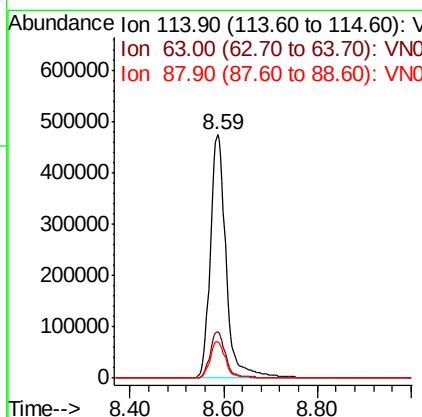
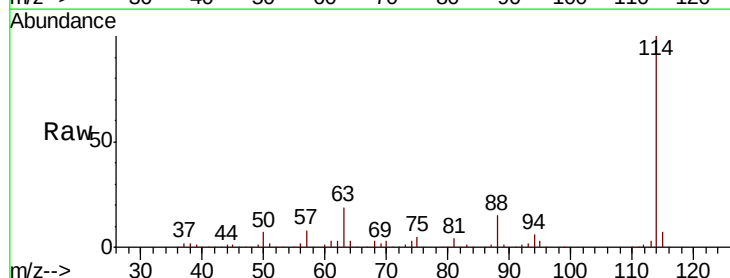
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#01

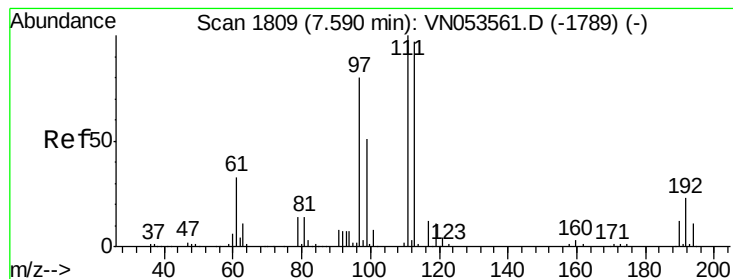
Tgt Ion: 65 Resp: 351961
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

Tgt Ion: 114 Resp: 1104228
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 15.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.370 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01

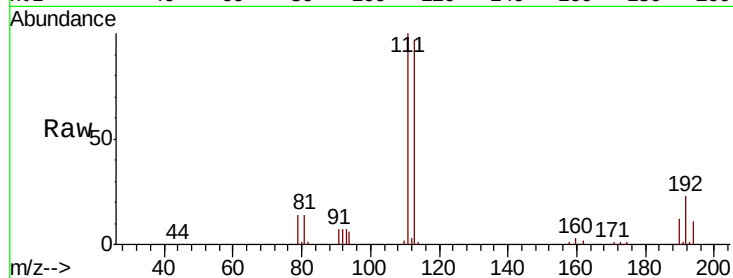
Tgt Ion:113 Resp: 351446

Ion Ratio Lower Upper

113 100

111 103.4 81.1 121.7

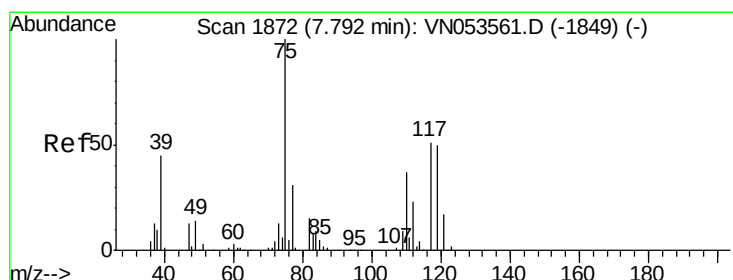
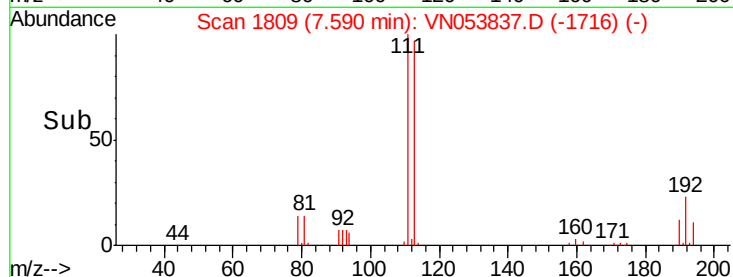
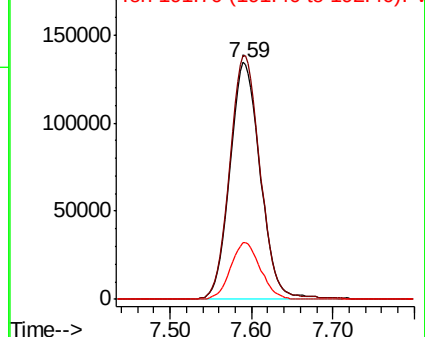
192 23.5 18.2 27.2



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: 3.872 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

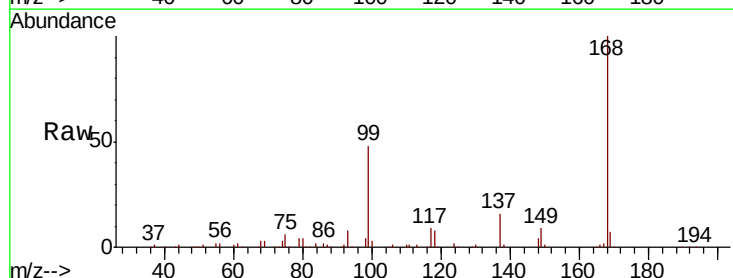
Tgt Ion: 75 Resp: 38541

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.3#

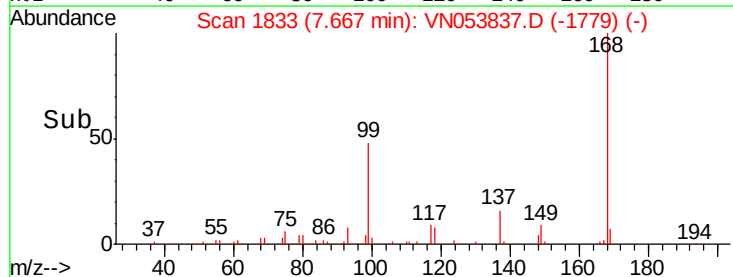
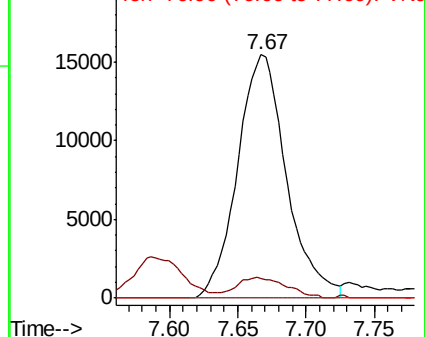
77 0.0 25.1 37.7#

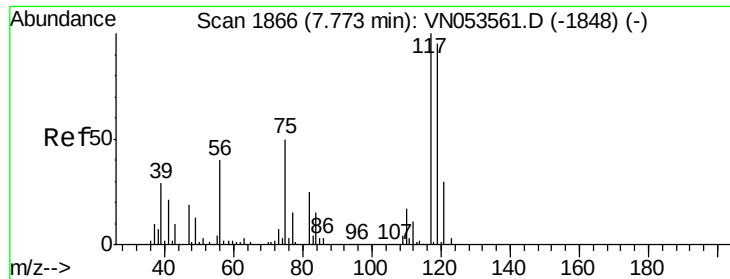


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.325 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01

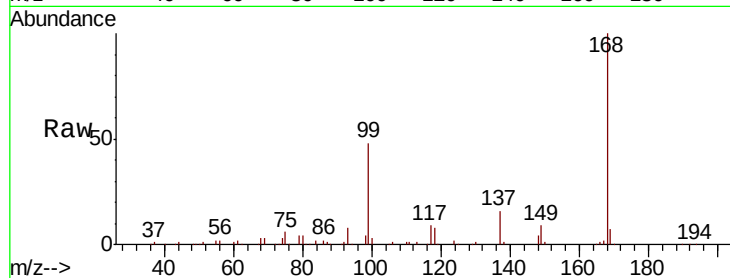
Tgt Ion:117 Resp: 53392

Ion Ratio Lower Upper

117 100

119 5.6 77.2 115.8#

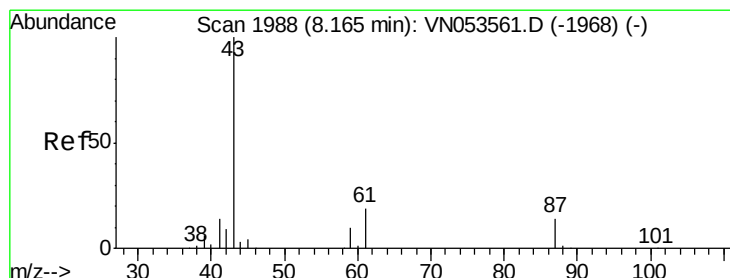
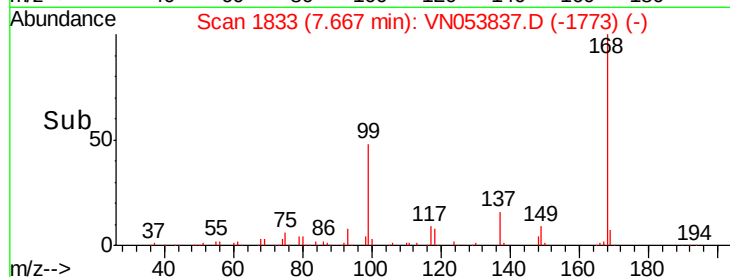
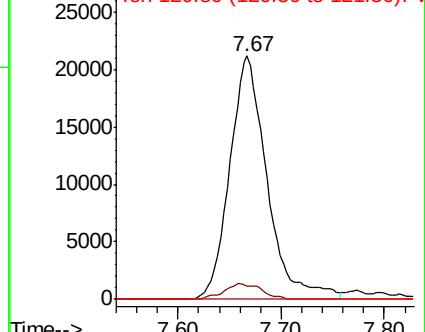
121 0.0 24.6 37.0#



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: 2.893 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

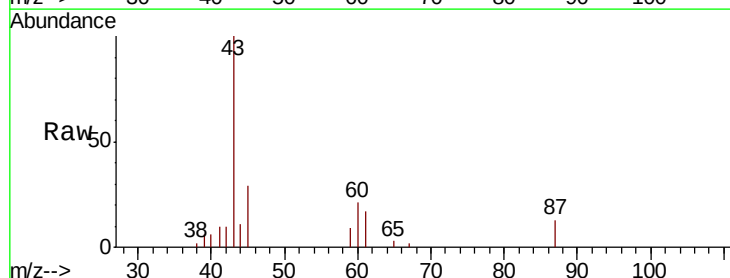
Tgt Ion: 43 Resp: 31060

Ion Ratio Lower Upper

43 100

61 17.7 23.9 35.9#

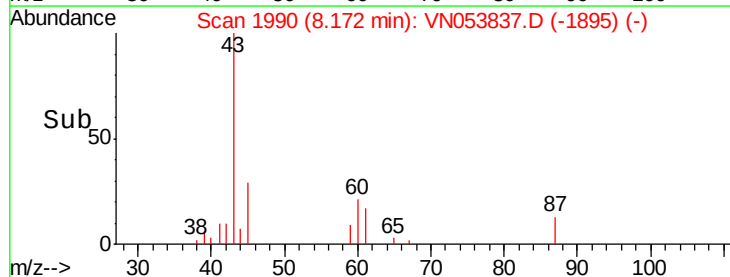
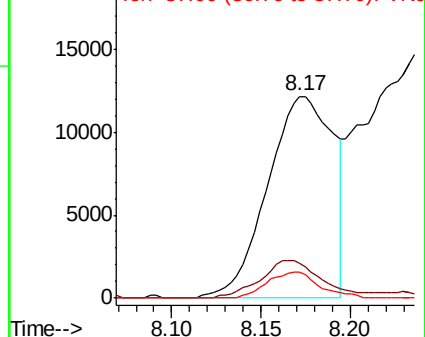
87 10.4 11.0 16.6#

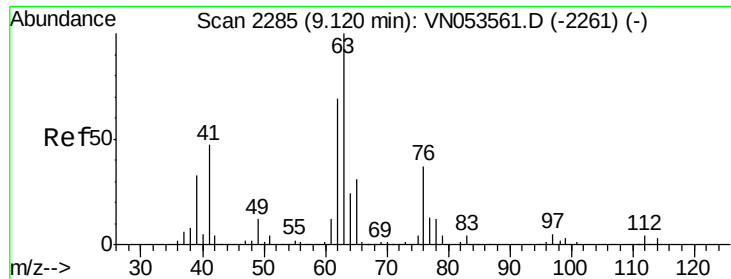


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

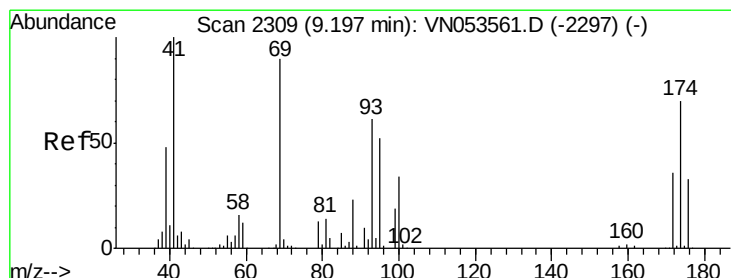
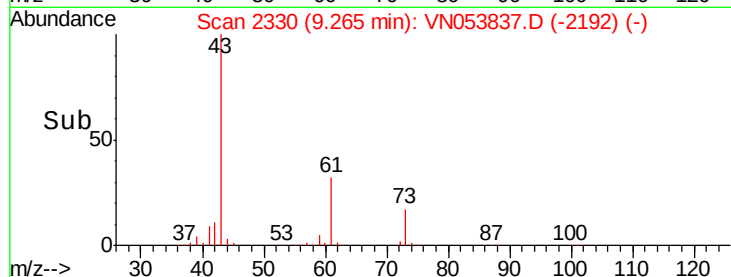
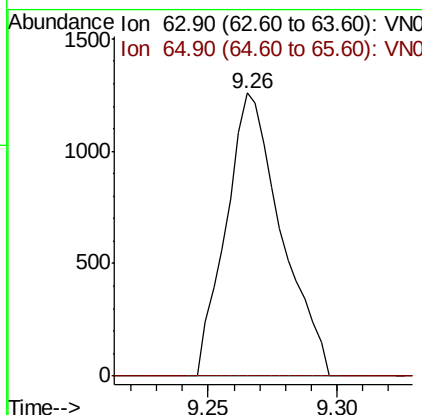
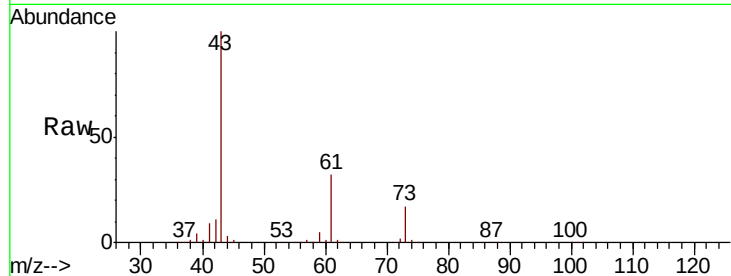




#45
 1,2-Dichloropropane
 Concen: 0.239 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

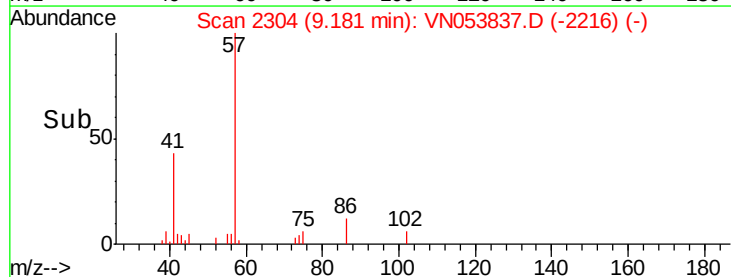
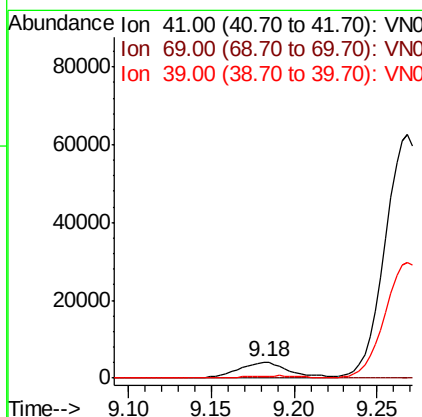
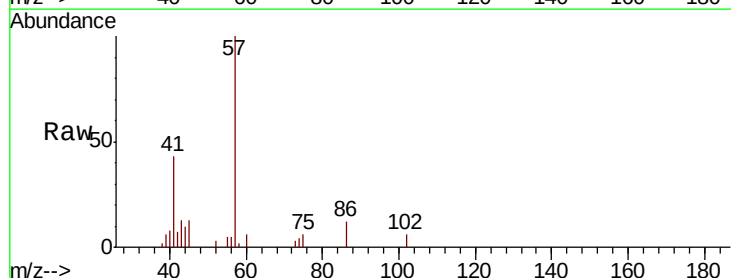
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#01

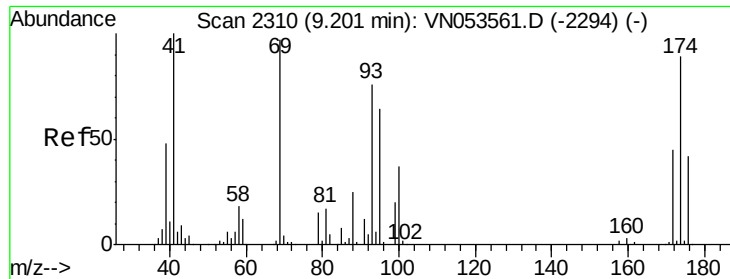
Tgt Ion: 63 Resp: 1879
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.734 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

Tgt Ion: 41 Resp: 8889
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 40.509 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01

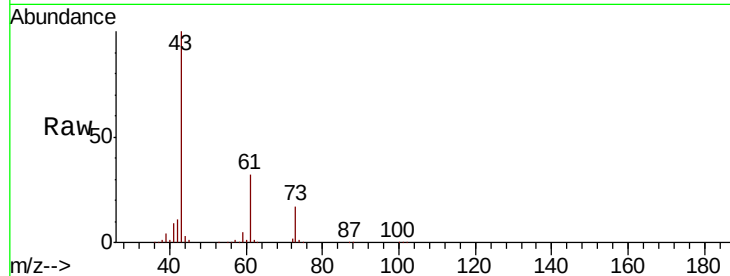
Tgt Ion: 88 Resp: 109

Ion Ratio Lower Upper

88 100

43 1289111.0 27.8 41.6#

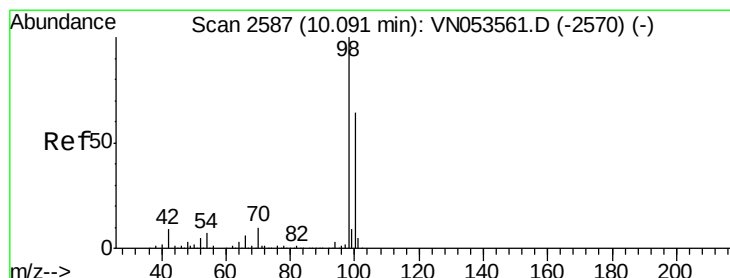
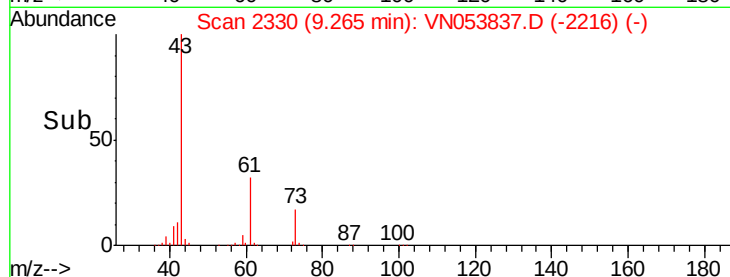
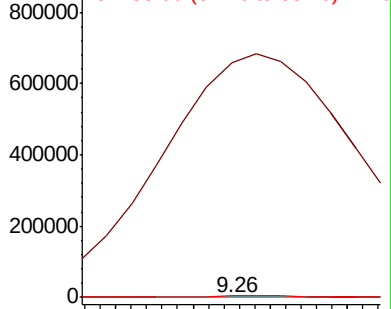
58 6155.0 56.5 84.7#



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: 51.651 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053837.D

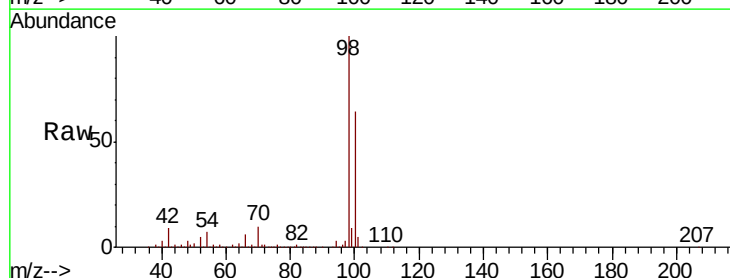
Acq: 18 Feb 2019 12:34

Tgt Ion: 98 Resp: 1353165

Ion Ratio Lower Upper

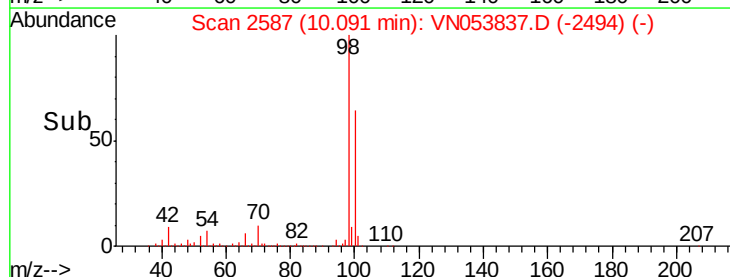
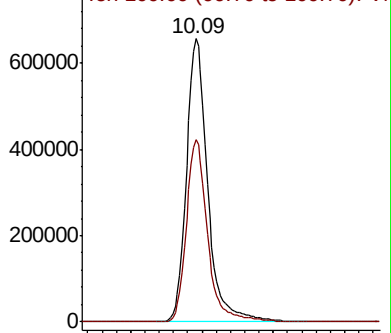
98 100

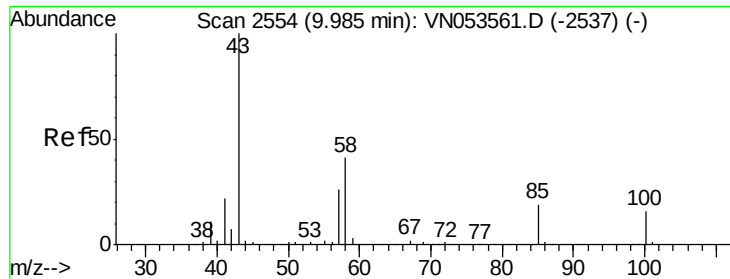
100 64.6 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

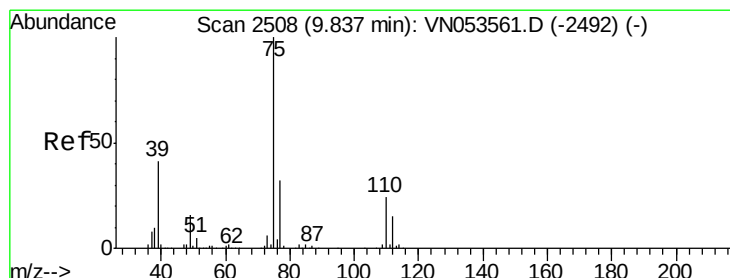
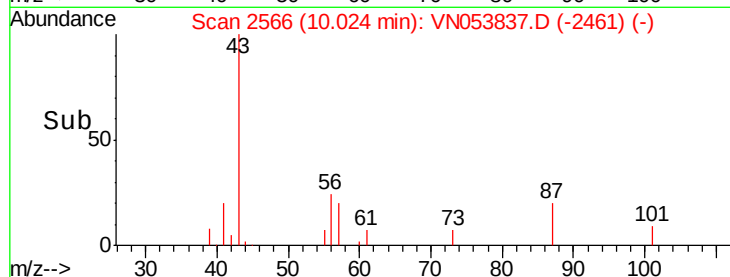
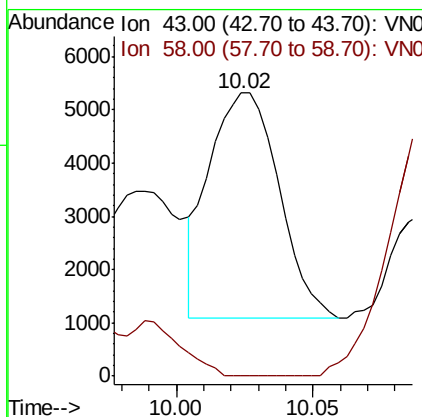
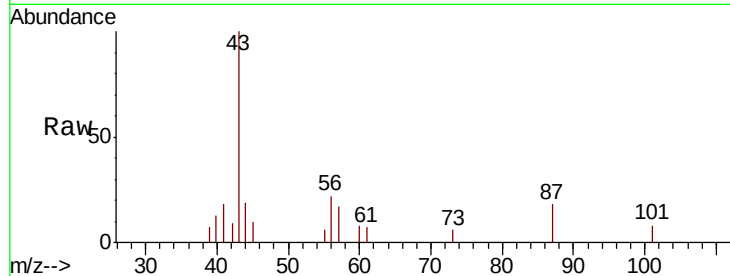




#51
 4-Methyl-2-Pentanone
 Concen: 1.422 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

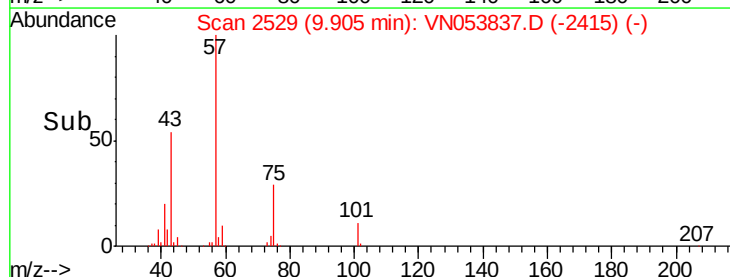
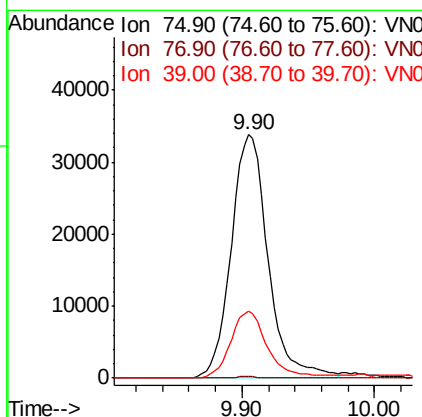
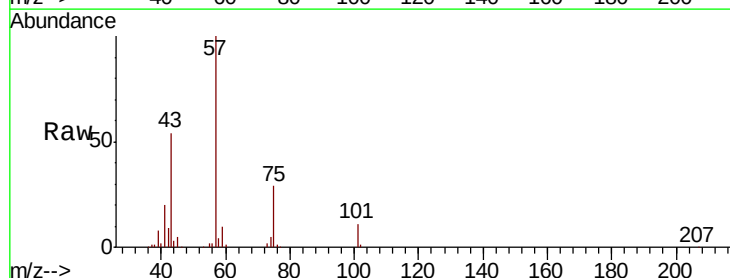
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#01

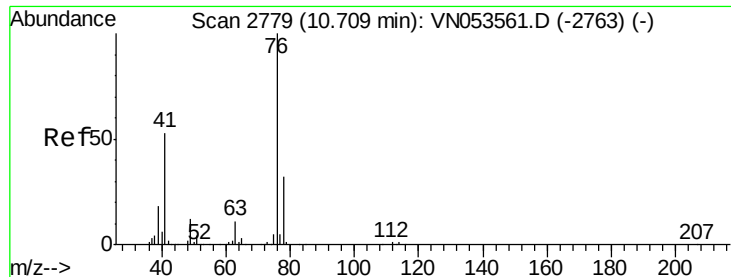
Tgt Ion: 43 Resp: 7500
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.8 49.2#



#54
 cis-1,3-Dichloropropene
 Concen: 5.584 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

Tgt Ion: 75 Resp: 65203
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 27.5 33.4 50.0#

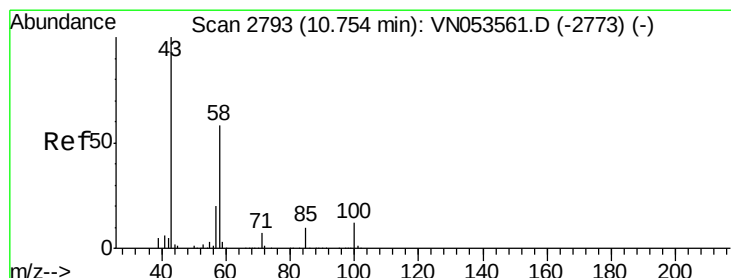
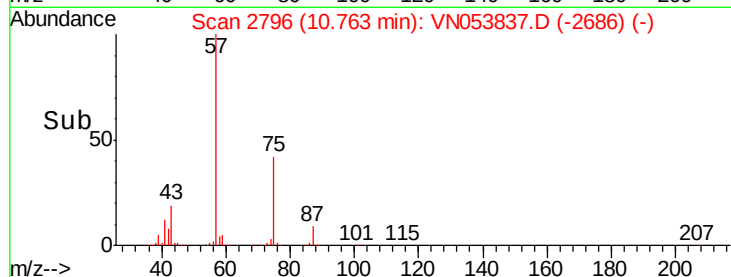
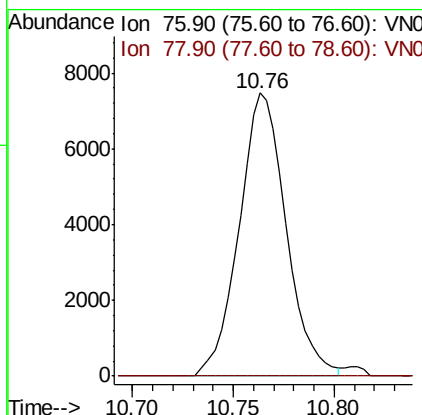
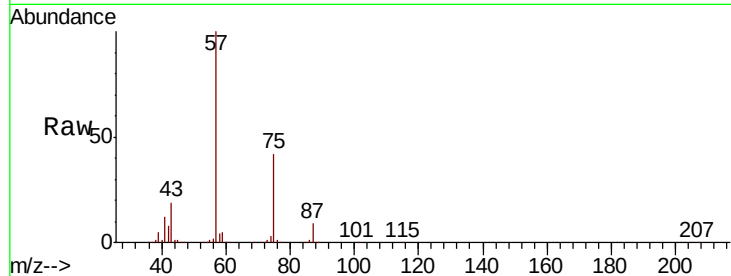




#57
 1,3-Dichloropropane
 Concen: 1.086 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

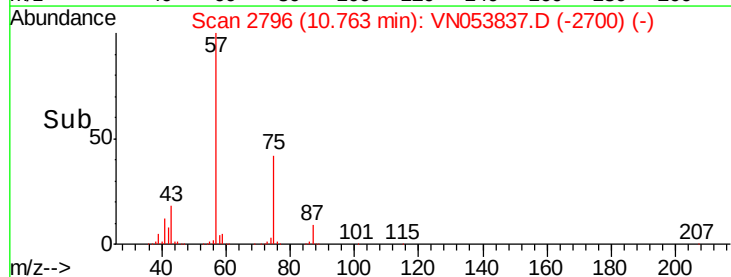
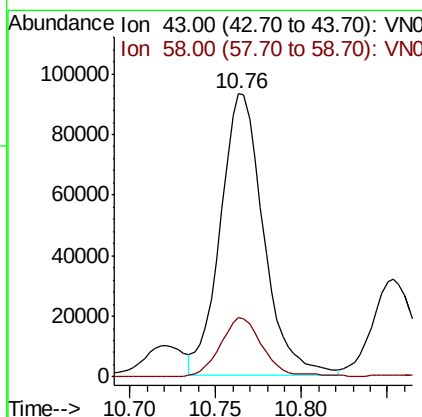
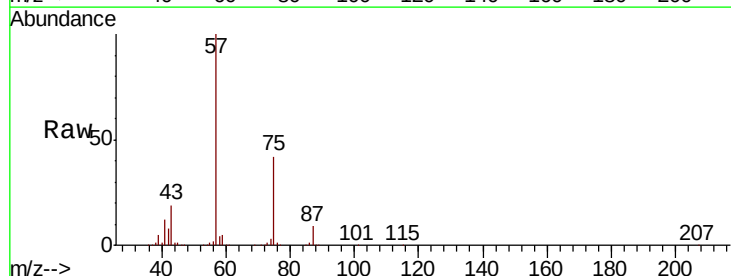
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#01

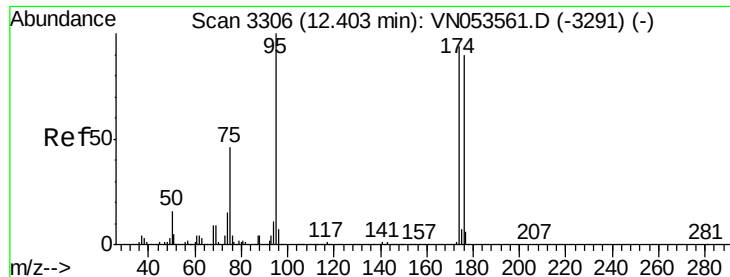
Tgt Ion: 76 Resp: 12180
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 45.457 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

Tgt Ion: 43 Resp: 162808
 Ion Ratio Lower Upper
 43 100
 58 21.1 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 54.498 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01

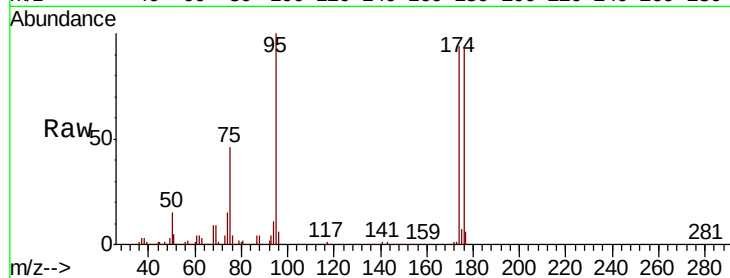
Tgt Ion: 95 Resp: 476181

Ion Ratio Lower Upper

95 100

174 95.0 0.0 183.2

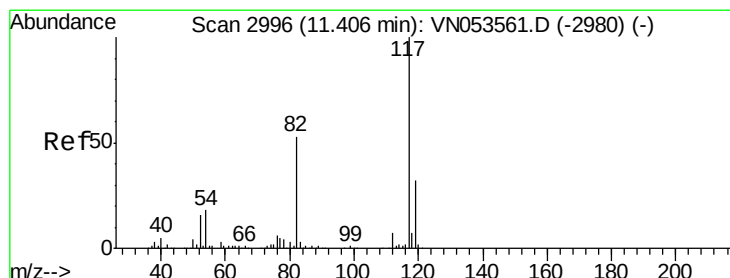
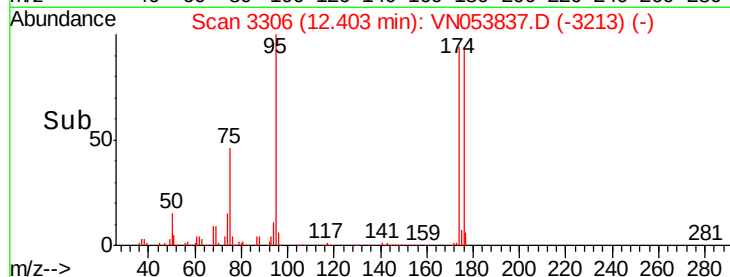
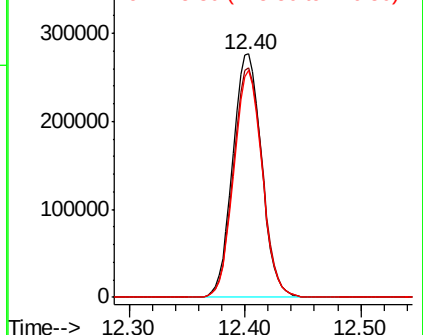
176 91.4 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053837.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053837.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053837.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

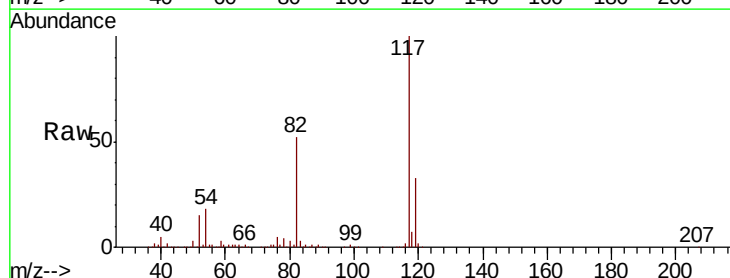
Tgt Ion: 117 Resp: 1129202

Ion Ratio Lower Upper

117 100

82 52.3 42.9 64.3

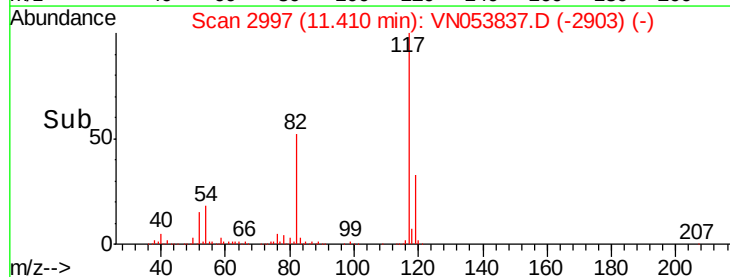
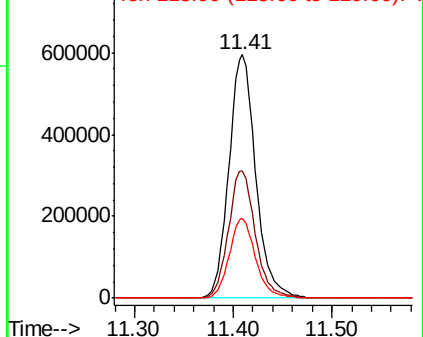
119 32.6 26.0 39.0

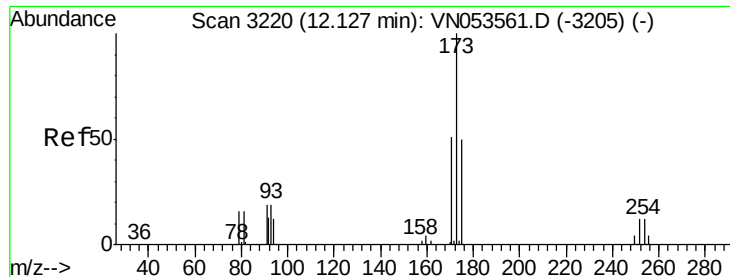


Abundance Ion 116.90 (116.60 to 117.60): VN053837.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053837.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053837.D (-2903) (-)





#71

Bromoform

Concen: 0.596 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01

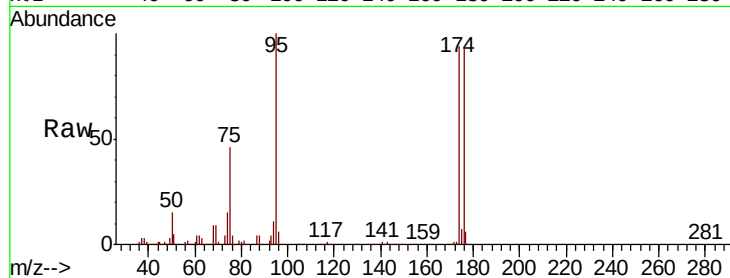
Tgt Ion:173 Resp: 3425

Ion Ratio Lower Upper

173 100

175 837.6 24.6 74.0#

254 0.0 0.2 0.2#

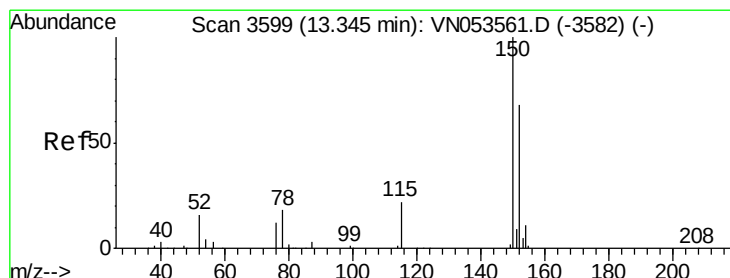
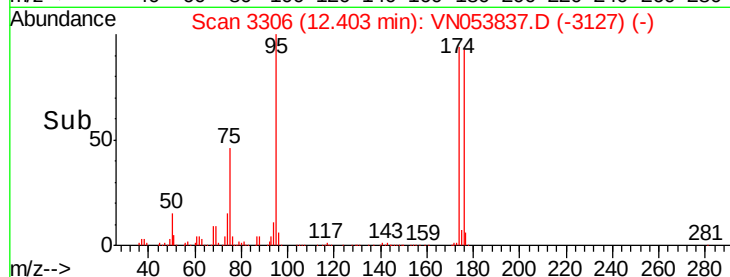
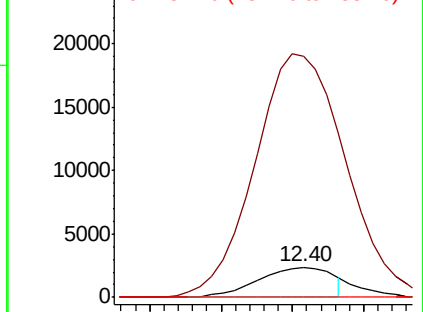


Abundance

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: VN053837.D

Acq: 18 Feb 2019 12:34

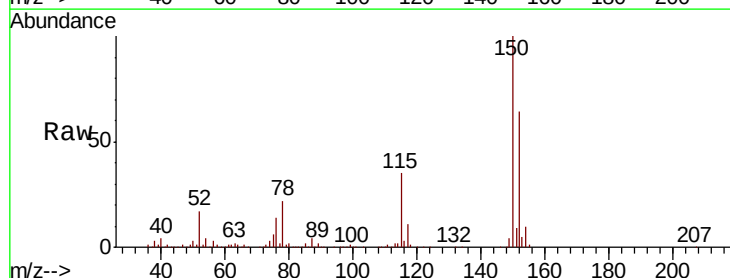
Tgt Ion:152 Resp: 431584

Ion Ratio Lower Upper

152 100

115 54.6 27.8 83.4

150 156.1 0.0 349.0

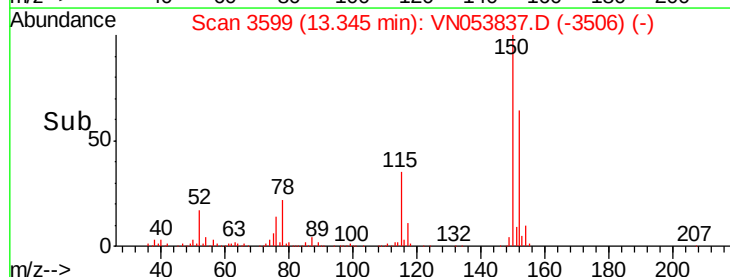
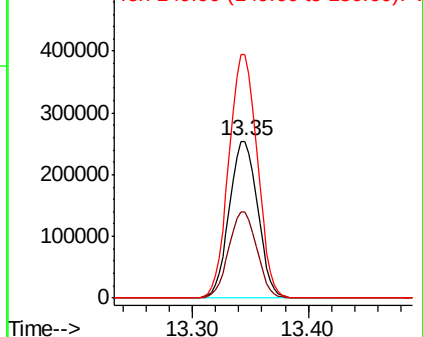


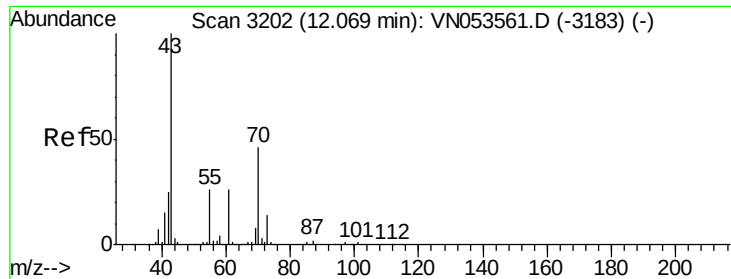
Abundance

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-ethyl acetate

Concen: 2.611 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

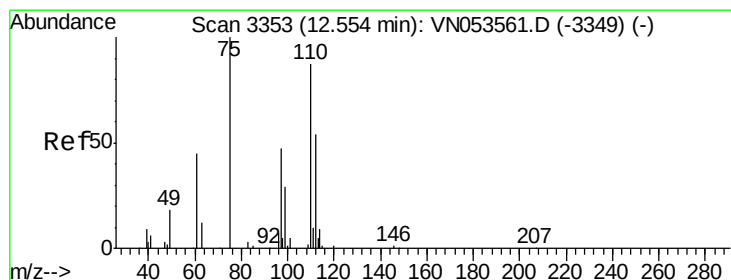
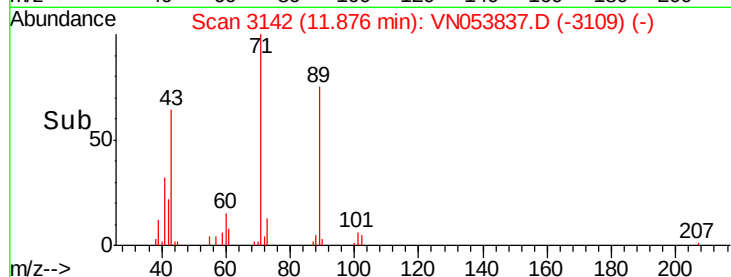
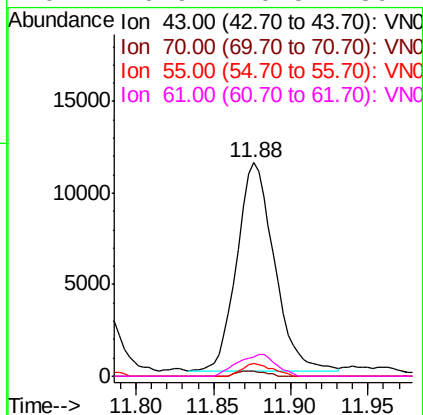
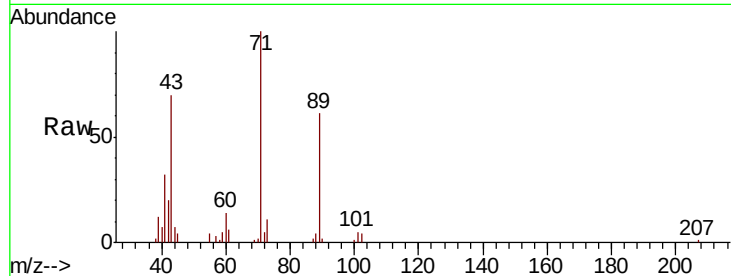
Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01

Tgt Ion:	43	Resp:	19051
Ion	Ratio	Lower	Upper
43	100		
70	2.1	35.4	53.2#
55	5.0	20.9	31.3#
61	10.9	20.5	30.7#



#76

1,2,3-Trichloropropane

Concen: 39.545 ug/l

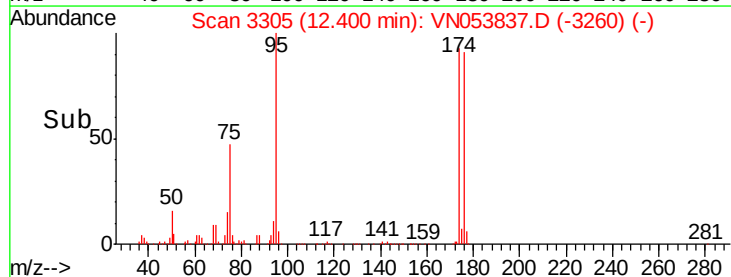
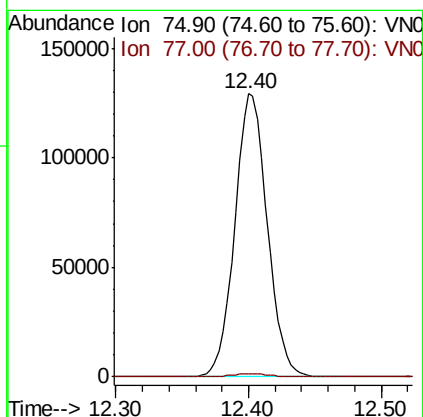
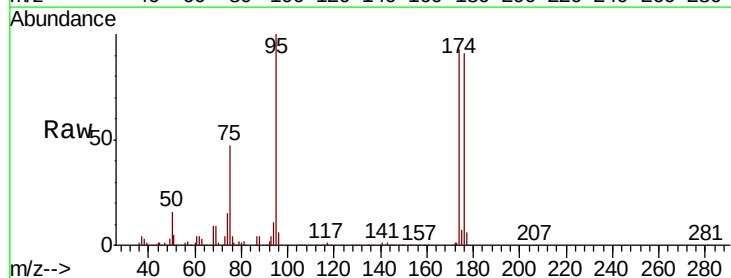
RT: 12.40 min Scan# 3305

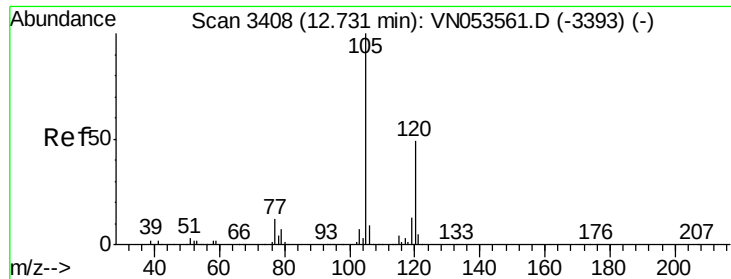
Delta R.T. -0.15 min

Lab File: VN053837.D

Acq: 18 Feb 2019 12:34

Tgt Ion:	75	Resp:	219217
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#

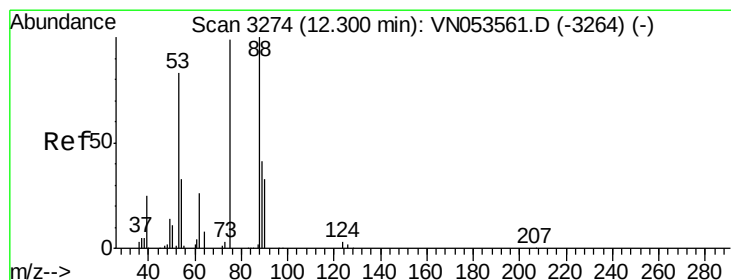
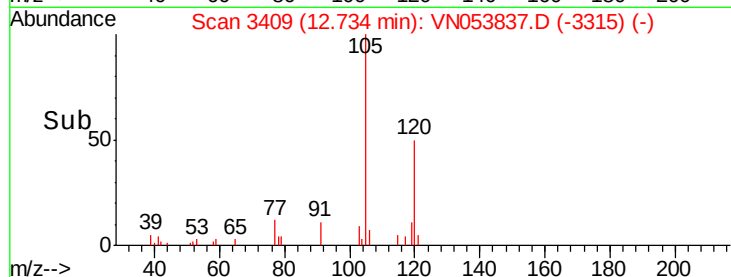
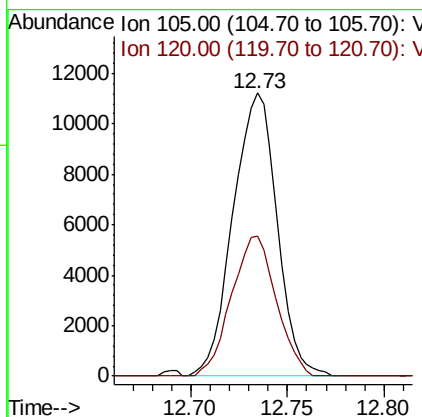
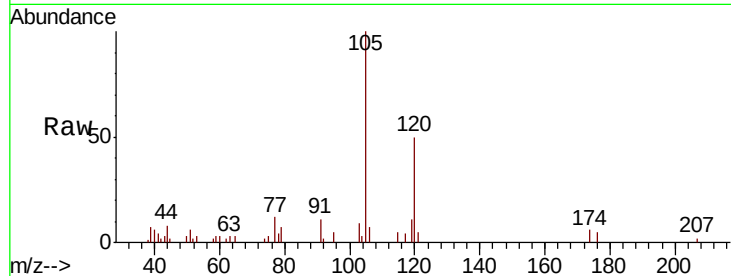




#80
 1,3,5-Trimethylbenzene
 Concen: 0.707 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

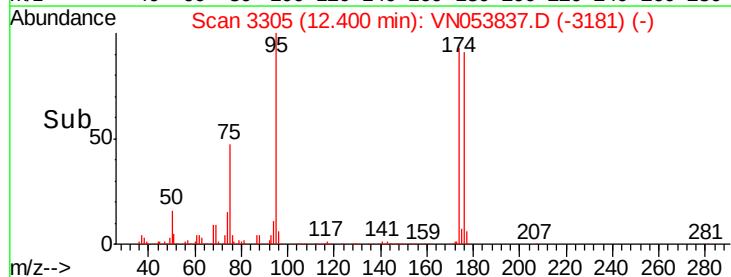
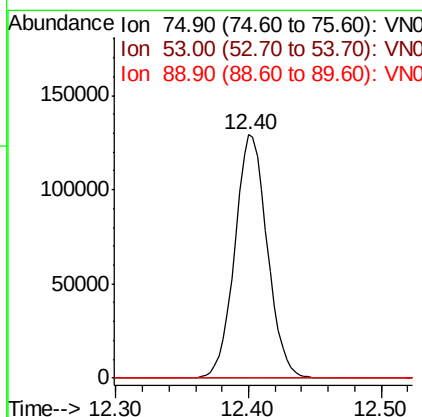
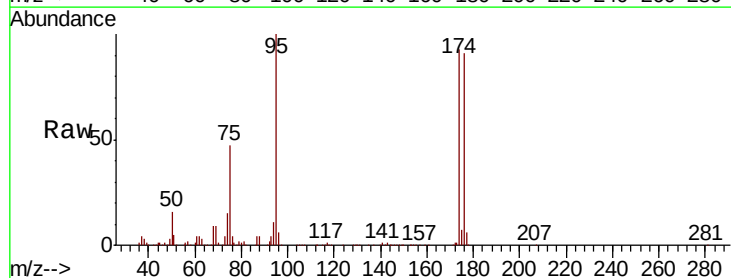
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#01

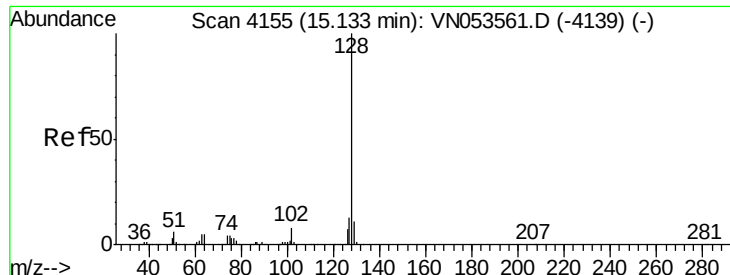
Tgt Ion: 105 Resp: 17787
 Ion Ratio Lower Upper
 105 100
 120 50.4 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.198 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053837.D
 Acq: 18 Feb 2019 12:34

Tgt Ion: 75 Resp: 219217
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#





#95

Naphthalene

Concen: 1.788 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053837.D

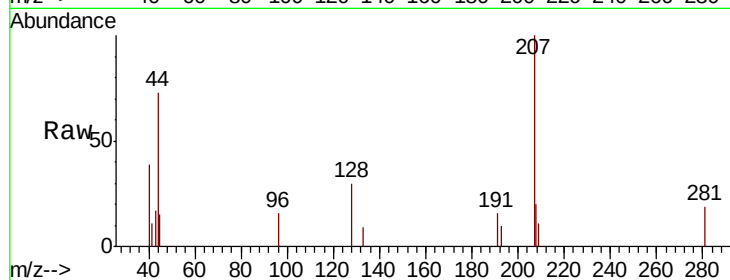
Acq: 18 Feb 2019 12:34

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#01



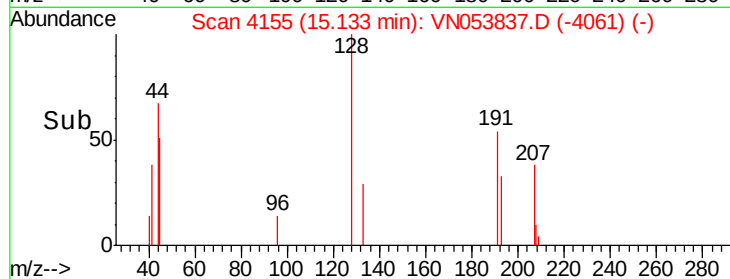
Tgt Ion:128 Resp: 1009

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

