

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101618\
 Data File : VN051887.D
 Acq On : 16 Oct 2018 11:35
 Operator : MD\SY
 Sample : PB113865ZHE#02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113865ZHE#02

Quant Time: Oct 17 02:23:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

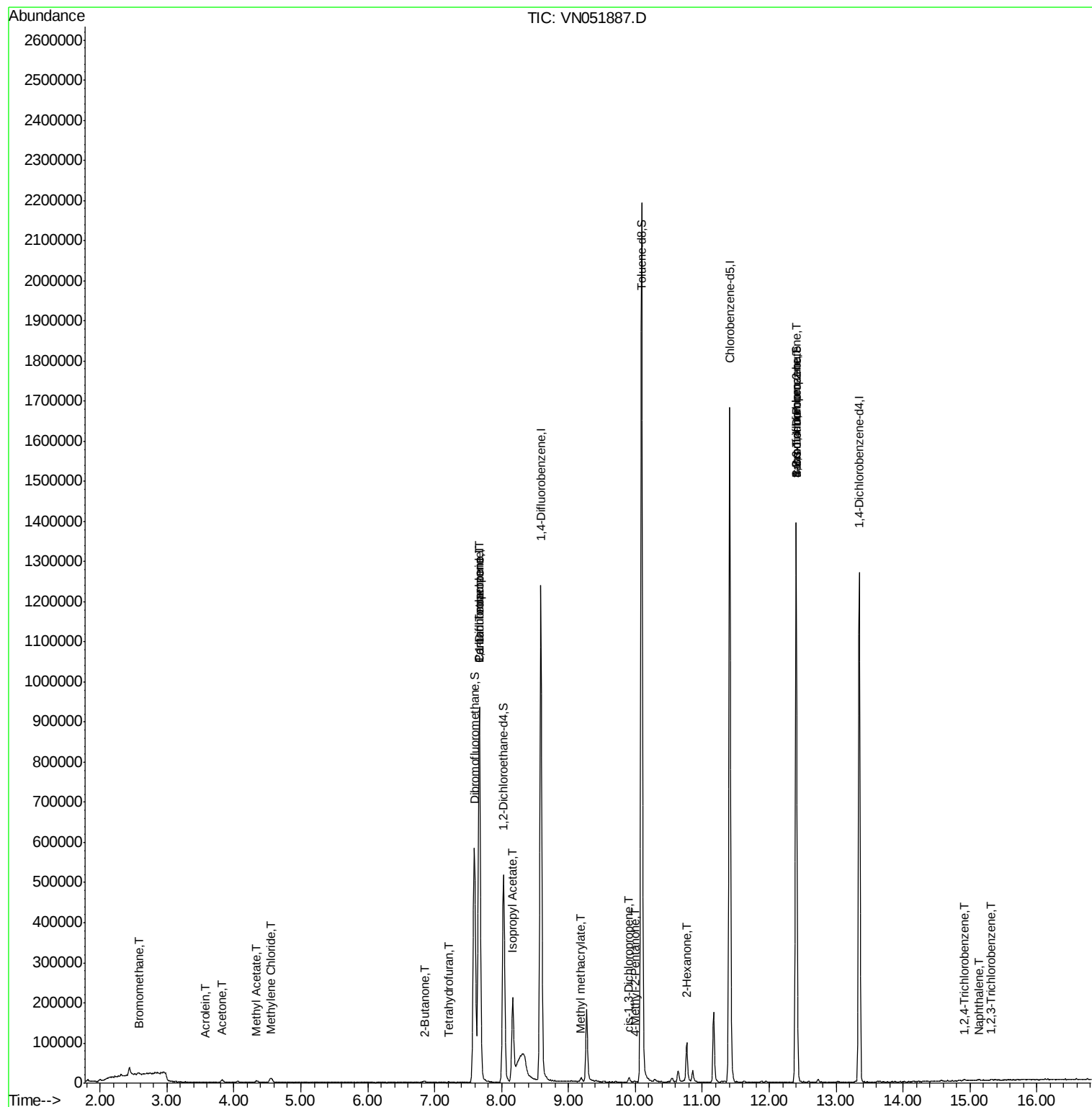
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	830703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1197855	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1064697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	374526	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	452603	57.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.00%	
35) Dibromofluoromethane	7.59	113	446598	59.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.92%	
50) Toluene-d8	10.09	98	1646724	59.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.66%	
62) 4-Bromofluorobenzene	12.40	95	466873	48.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.46%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	2676	0.354	ug/l	95
13) Acrolein	3.59	56	31	15.989	ug/l #	14
16) Acetone	3.83	43	10186	5.949	ug/l	95
18) Methyl Acetate	4.34	43	7799	0.665	ug/l #	87
20) Methylene Chloride	4.56	84	8379	1.182	ug/l	87
25) 2-Butanone	6.85	43	2425	1.002	ug/l #	75
29) Tetrahydrofuran	7.21	42	449	0.311	ug/l #	73
31) Cyclohexane	7.67	56	13891	Below Cal	#	3
36) 1,1-Dichloropropene	7.67	75	53066	5.472	ug/l #	50
38) Carbon Tetrachloride	7.67	117	73994	6.583	ug/l #	16
43) Isopropyl Acetate	8.17	43	251853	25.075	ug/l #	94
48) Methyl methacrylate	9.19	41	5785	1.304	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	1374	0.266	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	2324	0.209	ug/l #	67
59) 2-Hexanone	10.76	43	13473	3.712	ug/l	61
71) Bromoform	12.40	173	3972	4.150	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	237263	51.358	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	237263	145.883	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	829	3.777	ug/l #	54
95) Naphthalene	15.13	128	2715	4.576	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.32	180	877	2.993	ug/l	89

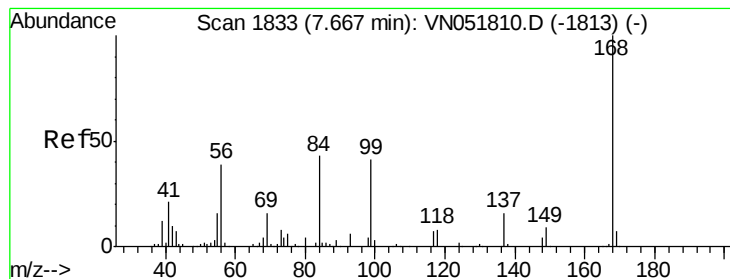
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051887.D

Acq: 16 Oct 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

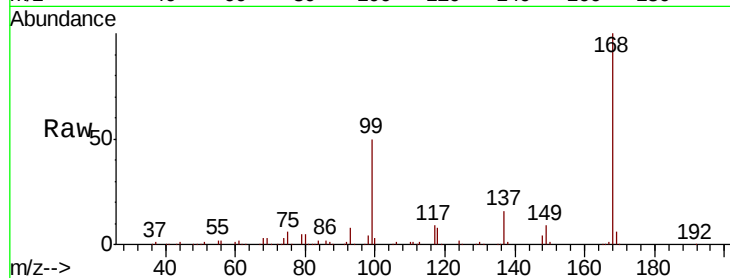
PB113865ZHE#02

Tgt Ion:168 Resp: 830703

Ion Ratio Lower Upper

168 100

99 49.7 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051810.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051810.D (-1813) (-)

7.67

400000

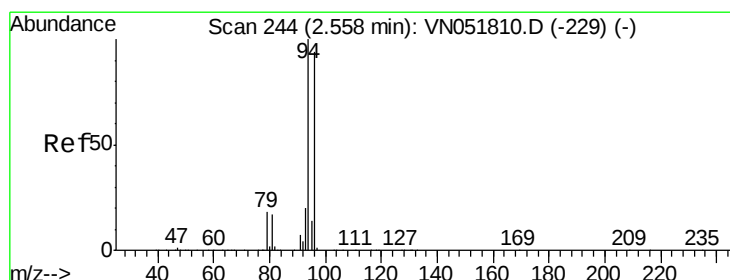
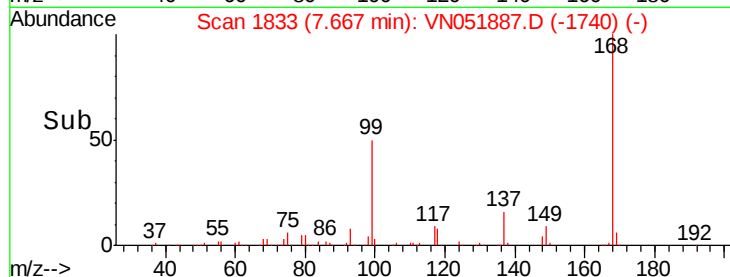
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.354 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.02 min

Lab File: VN051887.D

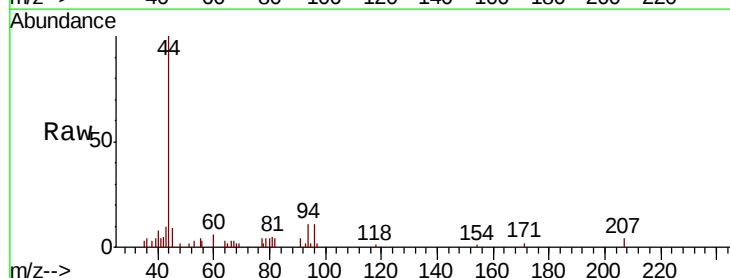
Acq: 16 Oct 2018 11:35

Tgt Ion: 94 Resp: 2676

Ion Ratio Lower Upper

94 100

96 100.3 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN051810.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN051810.D (-229) (-)

2.58

1200

1000

800

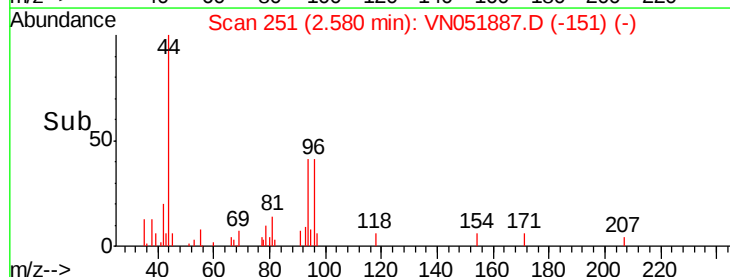
600

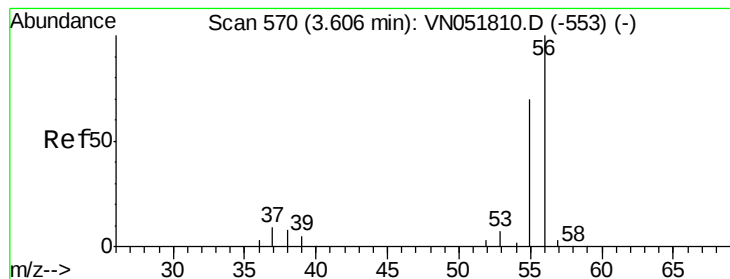
400

200

0

Time-->





#13

Acrolein

Concen: 15.989 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.02 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

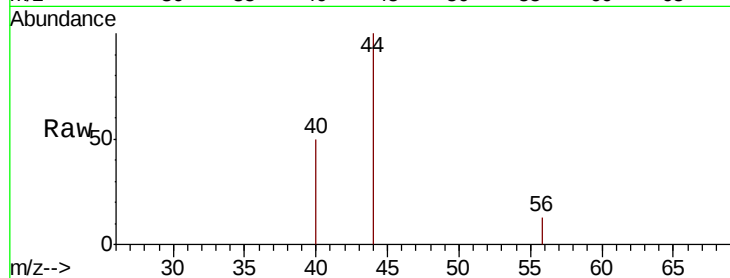
PB113865ZHE#02

Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

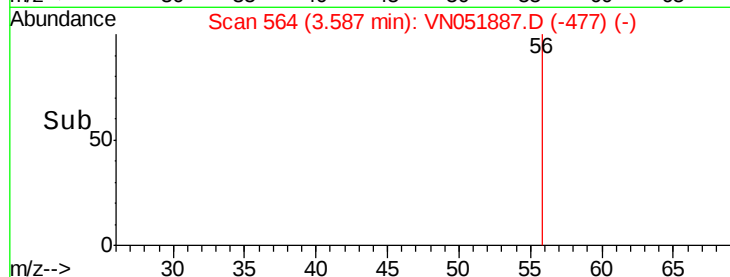
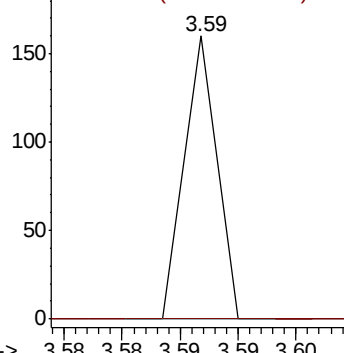
56 100

55 0.0 57.7 86.5#

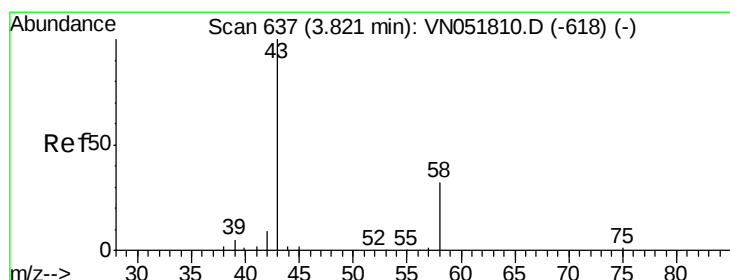


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 5.949 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051887.D

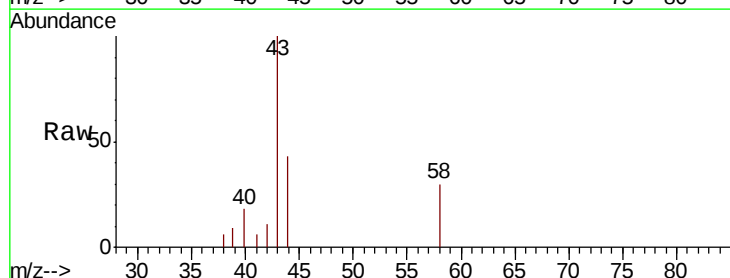
Acq: 16 Oct 2018 11:35

Tgt Ion: 43 Resp: 10186

Ion Ratio Lower Upper

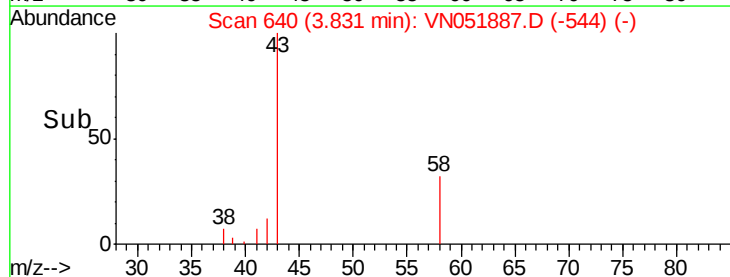
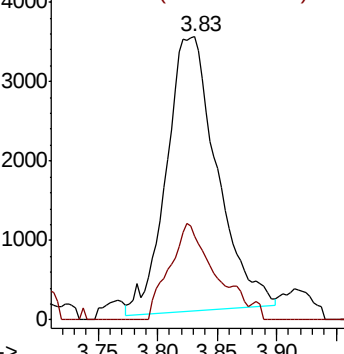
43 100

58 31.2 27.2 40.8

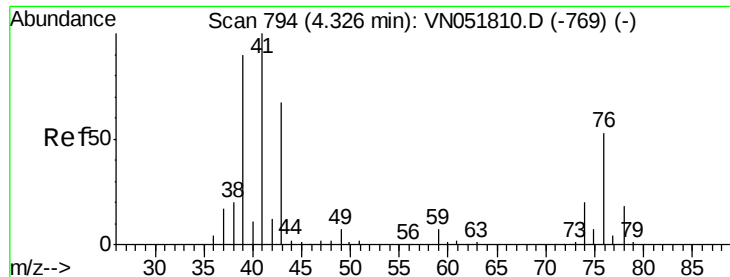


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#18

Methyl Acetate

Concen: 0.665 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

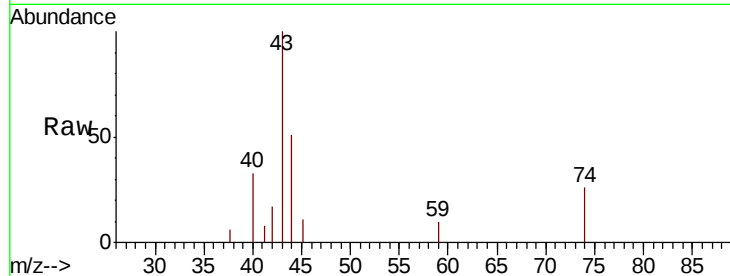
PB113865ZHE#02

Tgt Ion: 43 Resp: 7799

Ion Ratio Lower Upper

43 100

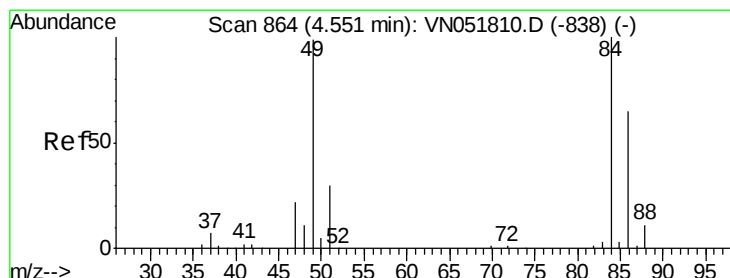
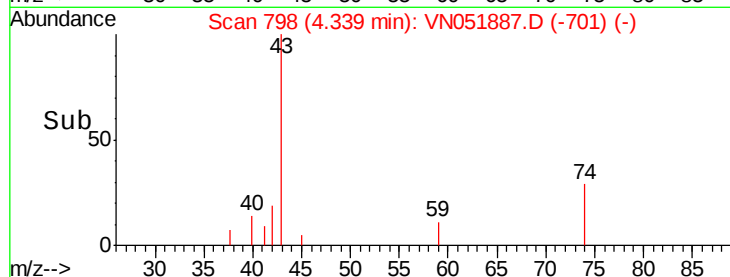
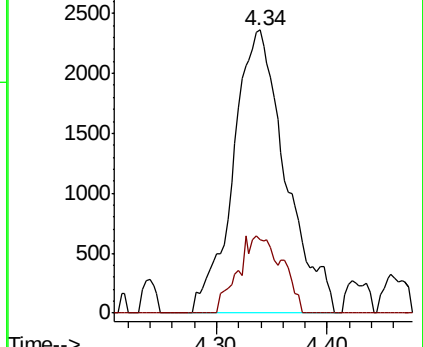
74 18.3 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051810.D (-769) (-)

Ion 74.00 (73.70 to 74.70): VN051810.D (-769) (-)

4.34



#20

Methylene Chloride

Concen: 1.182 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.01 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

Tgt Ion: 84 Resp: 8379

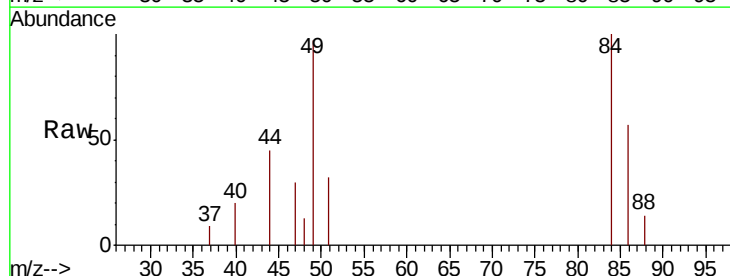
Ion Ratio Lower Upper

84 100

49 96.8 93.2 139.8

51 32.0 29.0 43.6

86 56.6 49.8 74.8

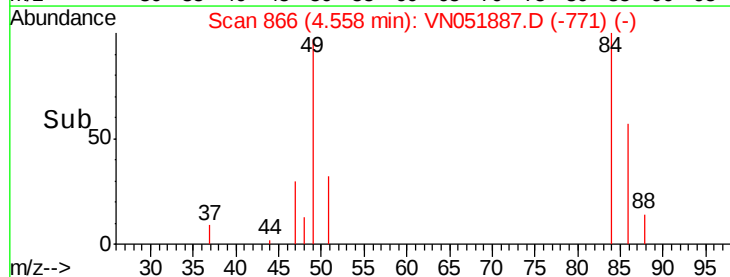
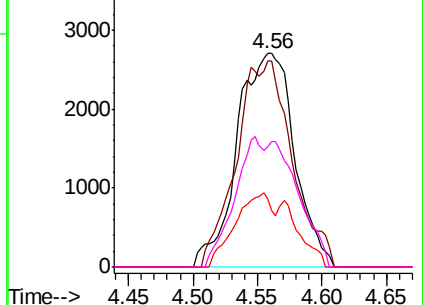


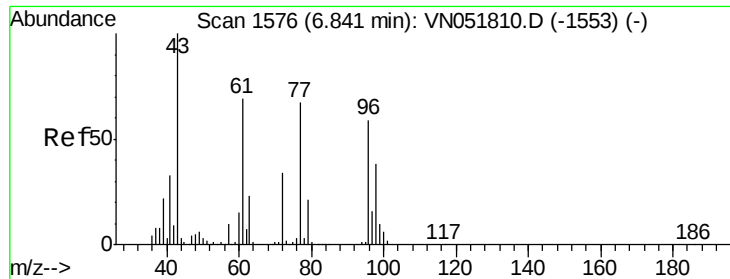
Abundance Ion 83.90 (83.60 to 84.60): VN051810.D (-838) (-)

Ion 48.90 (48.60 to 49.60): VN051810.D (-838) (-)

Ion 50.90 (50.60 to 51.60): VN051810.D (-838) (-)

Ion 85.90 (85.60 to 86.60): VN051810.D (-838) (-)

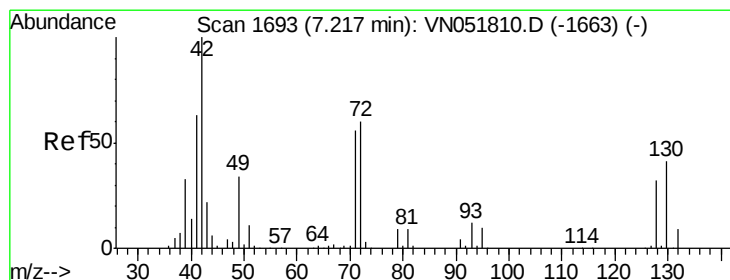
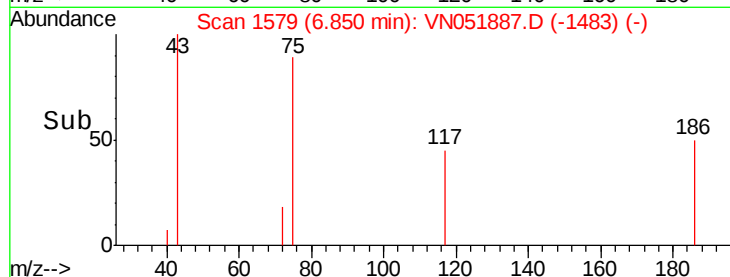
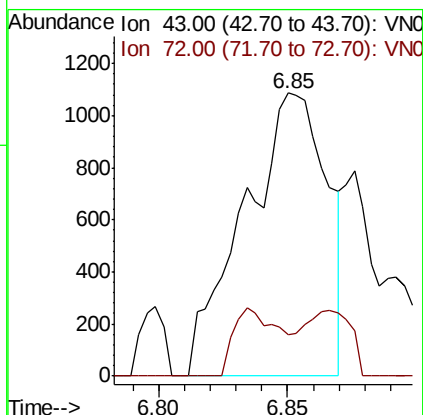
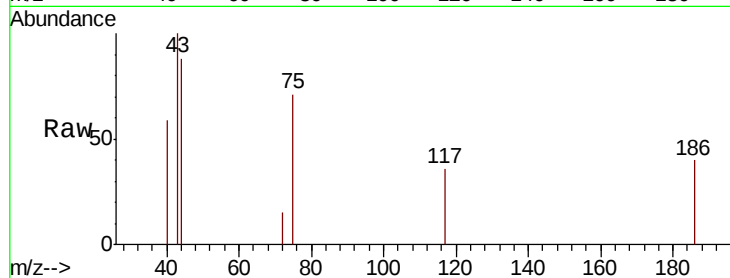




#25
 2-Butanone
 Concen: 1.002 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

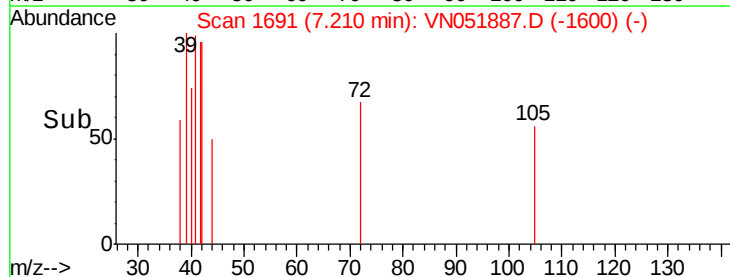
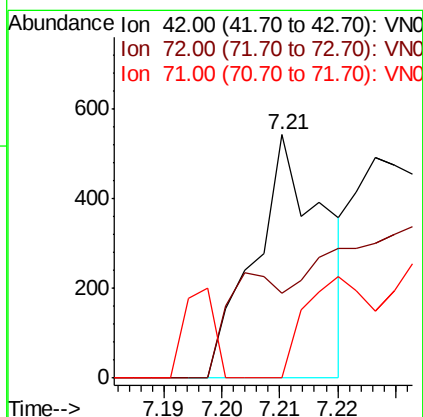
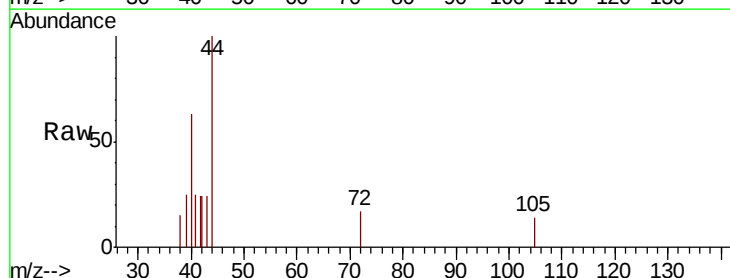
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113865ZHE#02

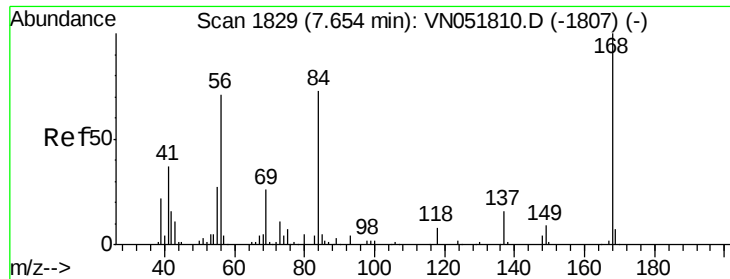
Tgt Ion: 43 Resp: 2425
 Ion Ratio Lower Upper
 43 100
 72 14.7 22.3 33.5#



#29
 Tetrahydrofuran
 Concen: 0.311 ug/l
 RT: 7.21 min Scan# 1691
 Delta R.T. -0.01 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

Tgt Ion: 42 Resp: 449
 Ion Ratio Lower Upper
 42 100
 72 35.0 35.5 53.3#
 71 16.3 33.7 50.5#

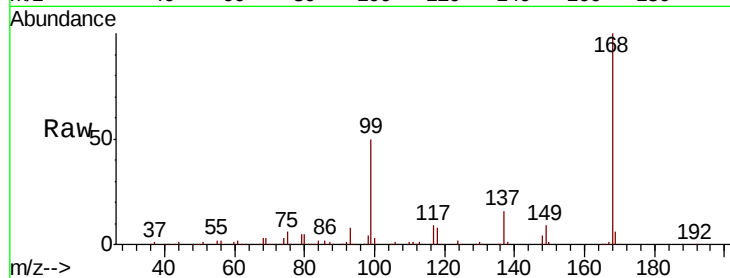




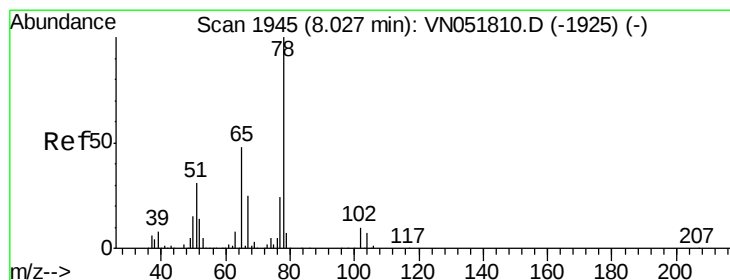
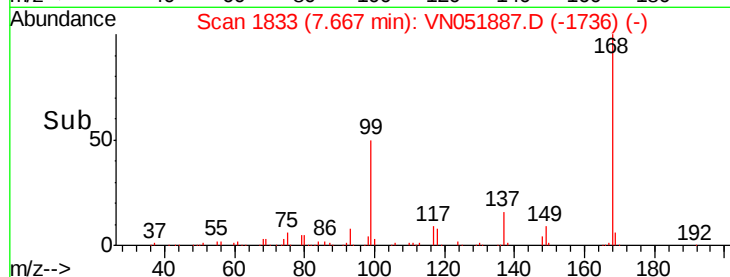
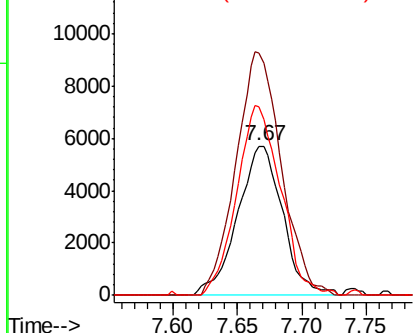
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051887.D
Acq: 16 Oct 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
PB113865ZHE#02

Tgt Ion: 56 Resp: 13891
Ion Ratio Lower Upper
56 100
69 162.7 26.2 39.4#
84 126.7 68.3 102.5#

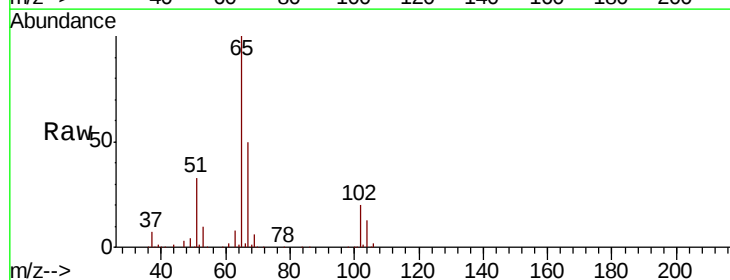


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

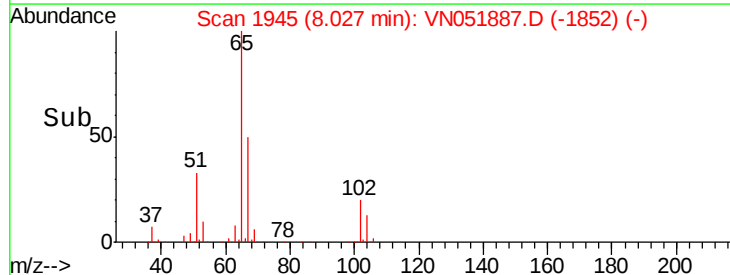
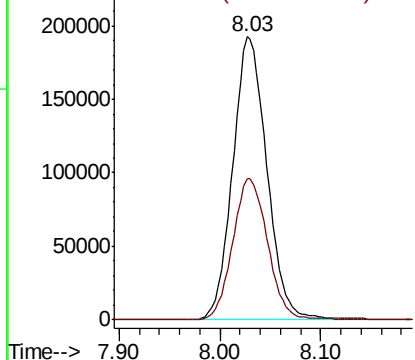


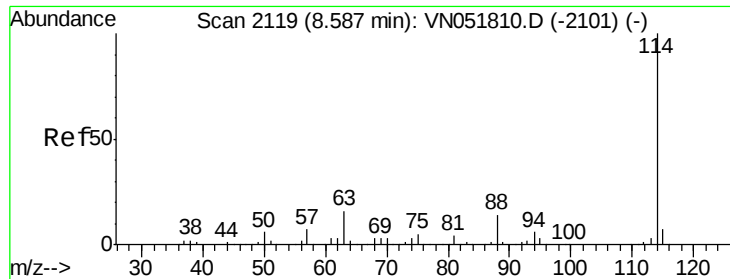
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN051887.D
Acq: 16 Oct 2018 11:35

Tgt Ion: 65 Resp: 452603
Ion Ratio Lower Upper
65 100
67 51.3 0.0 110.4



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

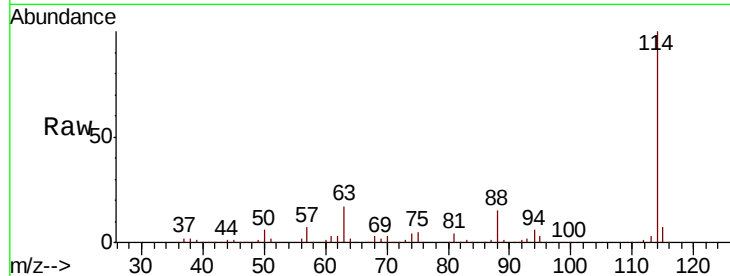




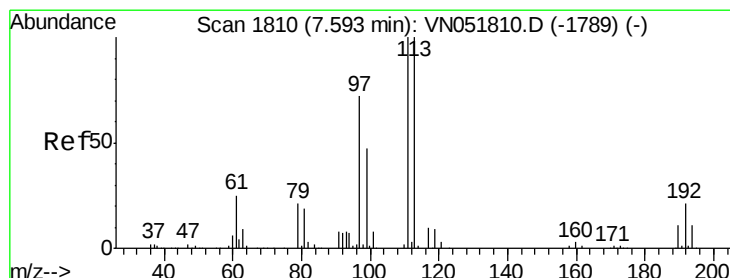
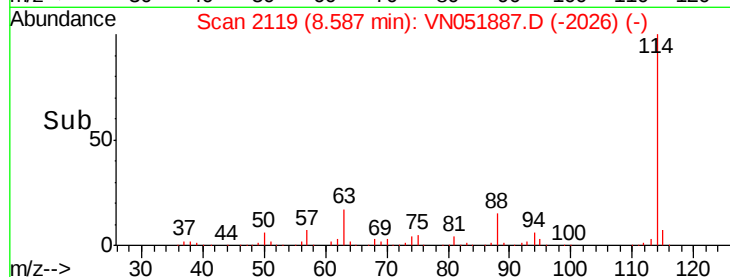
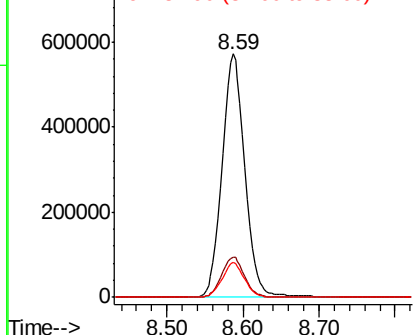
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113865ZHE#02

Tgt Ion:114 Resp: 1197855
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 38.6
 88 14.5 0.0 30.6

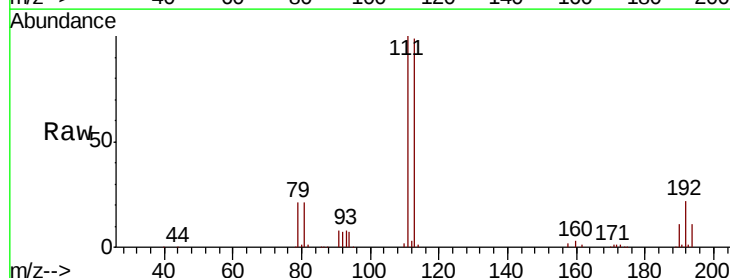


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

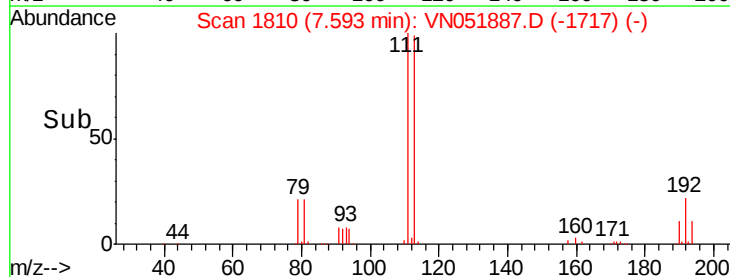
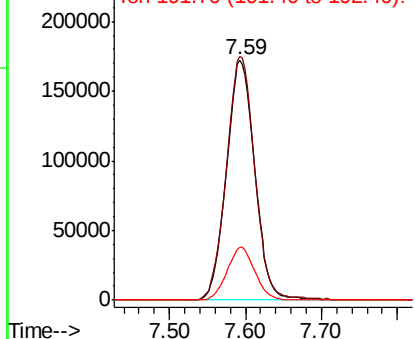


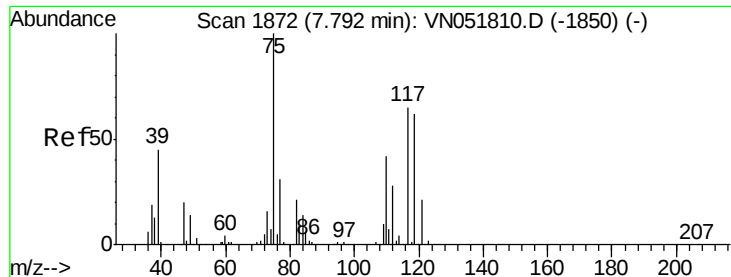
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

Tgt Ion:113 Resp: 446598
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.6 123.8
 192 21.6 18.0 27.0



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

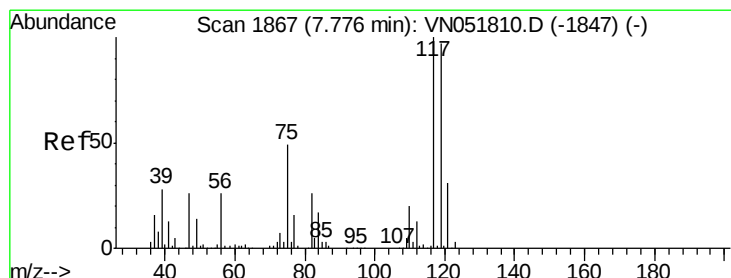
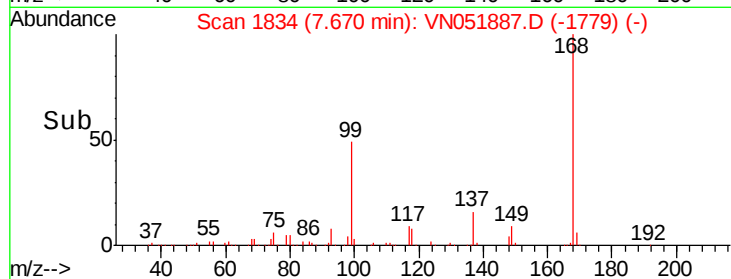
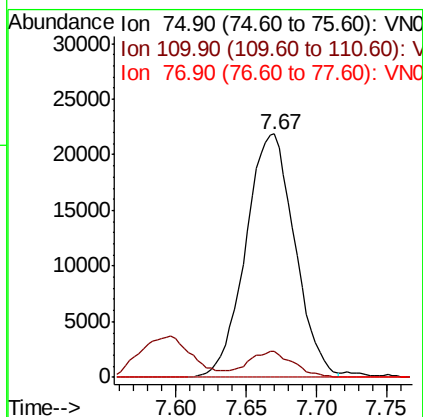
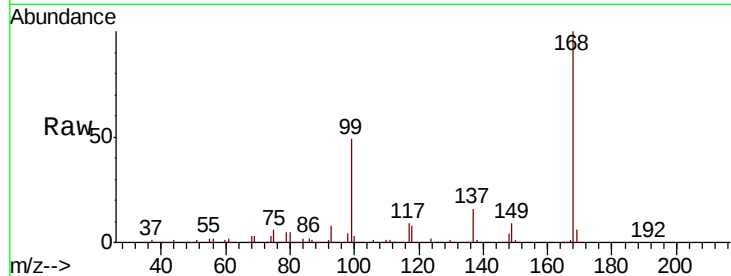




#36
 1,1-Dichloropropene
 Concen: 5.472 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

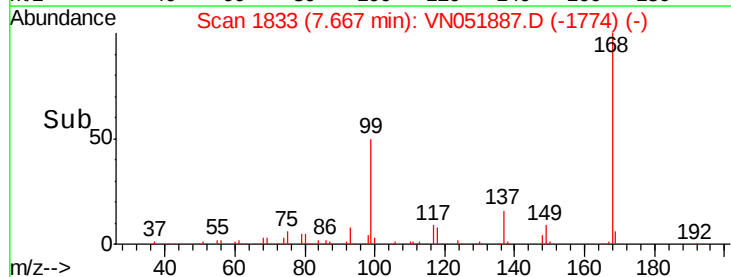
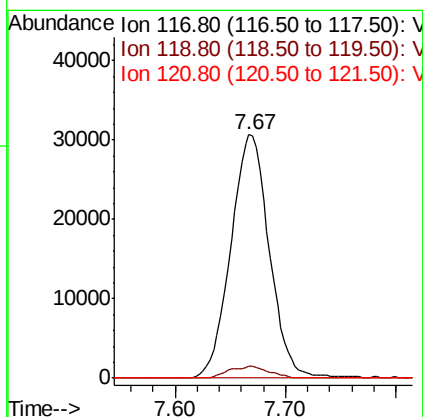
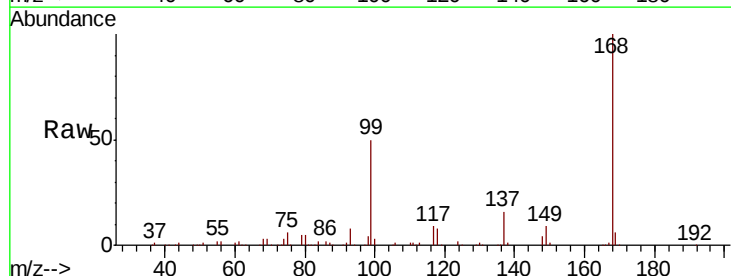
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113865ZHE#02

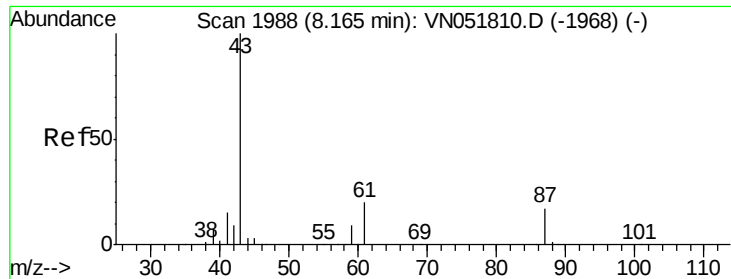
Tgt Ion: 75 Resp: 53066
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.4#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.583 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

Tgt Ion: 117 Resp: 73994
 Ion Ratio Lower Upper
 117 100
 119 4.7 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 25.075 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

PB113865ZHE#02

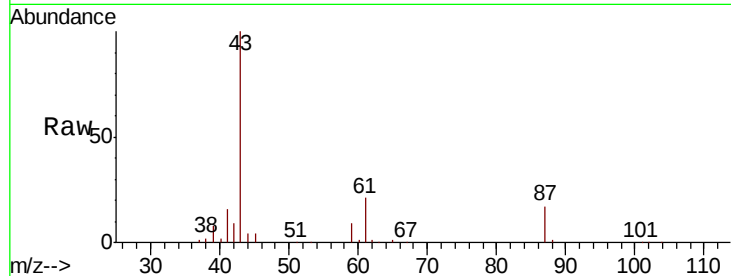
Tgt Ion: 43 Resp: 251853

Ion Ratio Lower Upper

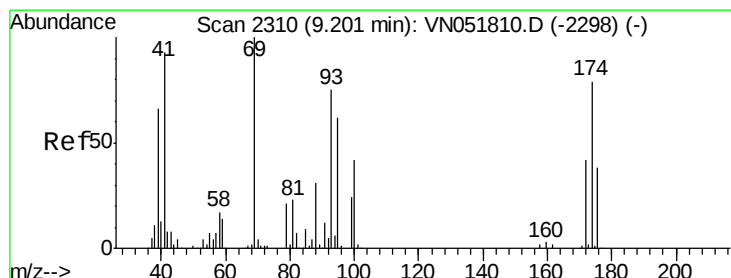
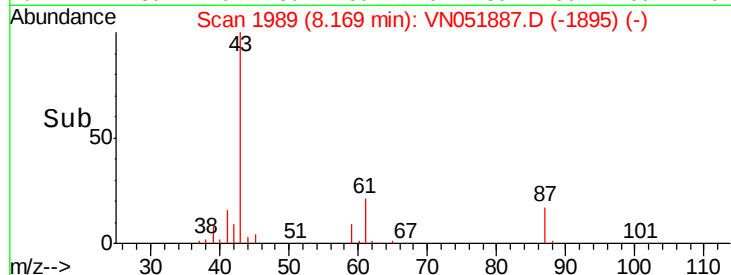
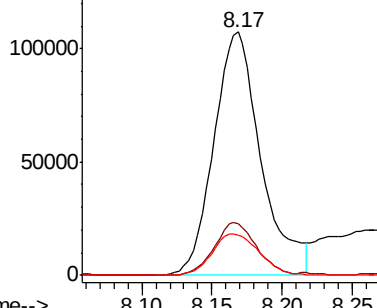
43 100

61 19.5 17.5 26.3

87 17.1 11.3 16.9#



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



#48

Methyl methacrylate

Concen: 1.304 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

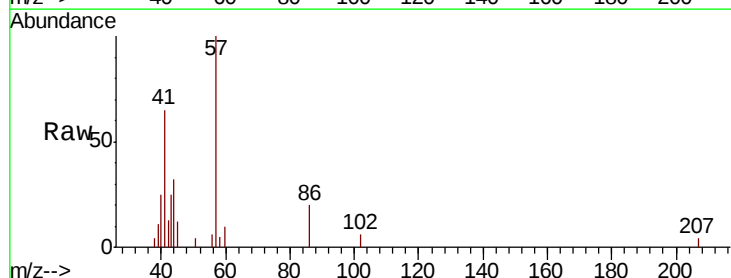
Tgt Ion: 41 Resp: 5785

Ion Ratio Lower Upper

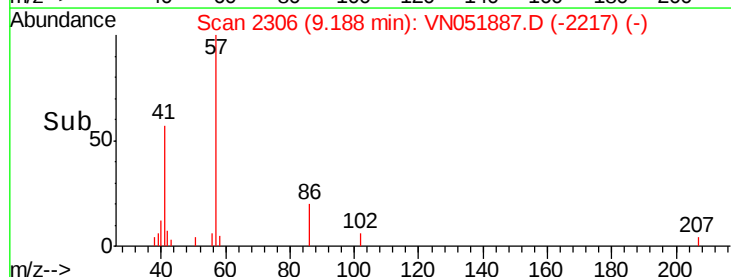
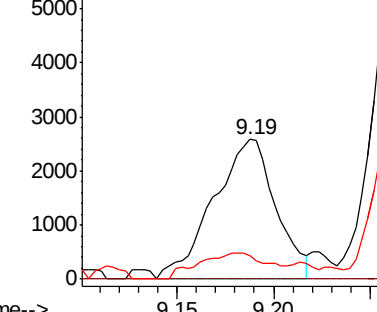
41 100

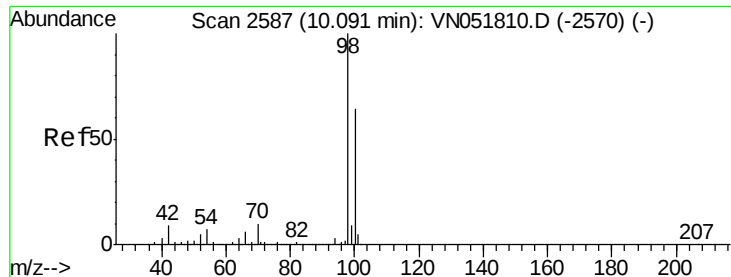
69 0.0 74.7 112.1#

39 21.0 42.2 63.2#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

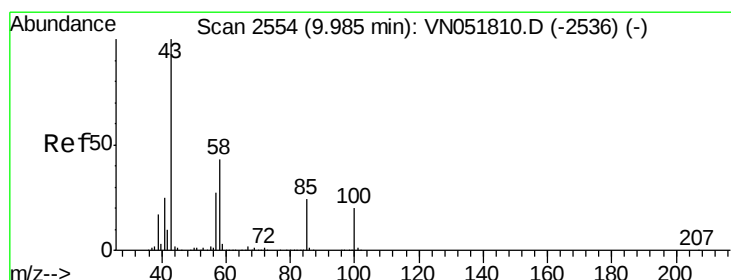
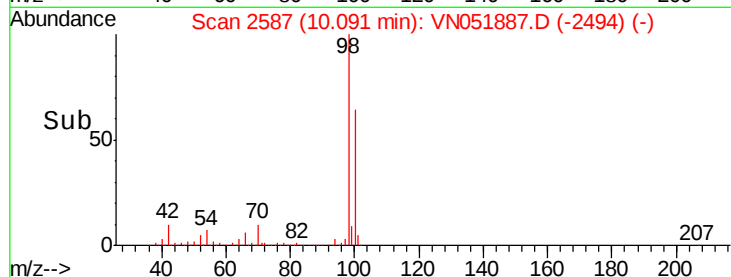
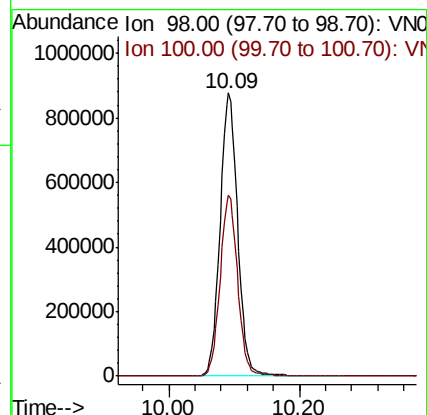
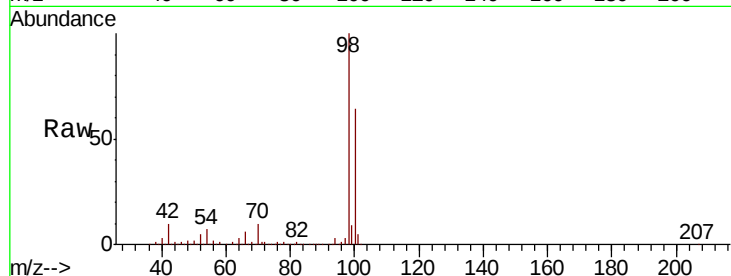
PB113865ZHE#02

Tgt Ion: 98 Resp: 1646724

Ion Ratio Lower Upper

98 100

100 63.9 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.266 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051887.D

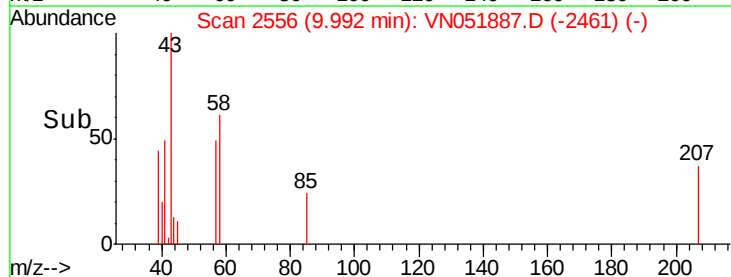
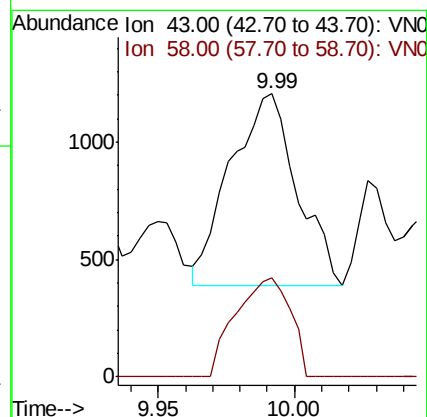
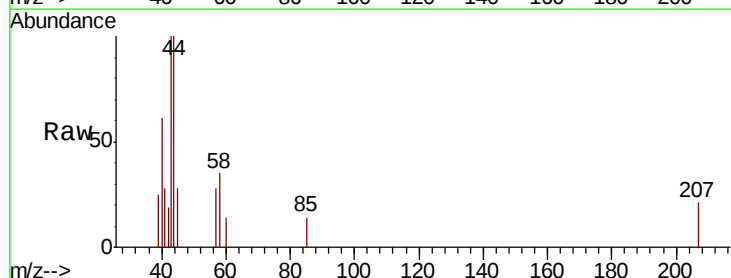
Acq: 16 Oct 2018 11:35

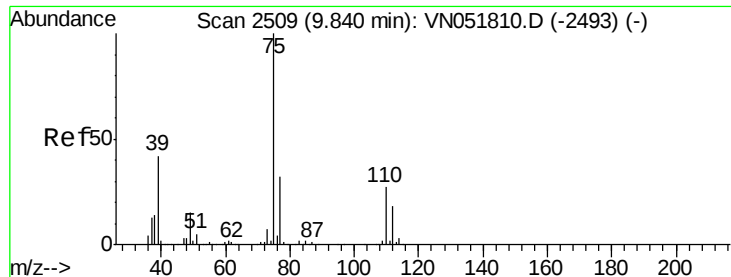
Tgt Ion: 43 Resp: 1374

Ion Ratio Lower Upper

43 100

58 42.7 32.4 48.6





#54

cis-1,3-Dichloropropene

Concen: 0.209 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

PB113865ZHE#02

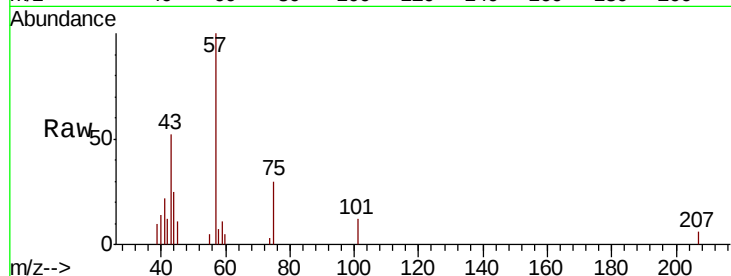
Tgt Ion: 75 Resp: 2324

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

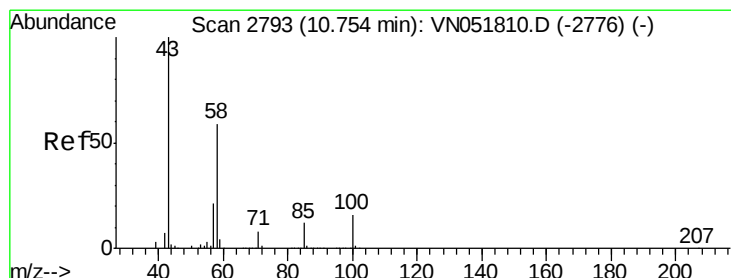
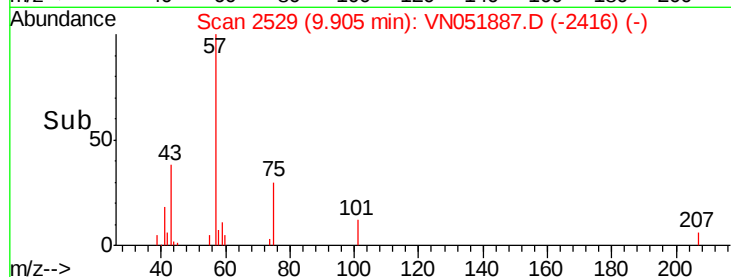
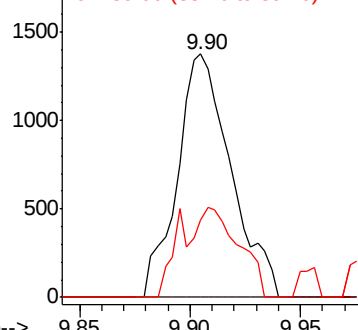
39 31.9 33.0 49.4#



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



#59

2-Hexanone

Concen: 3.712 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051887.D

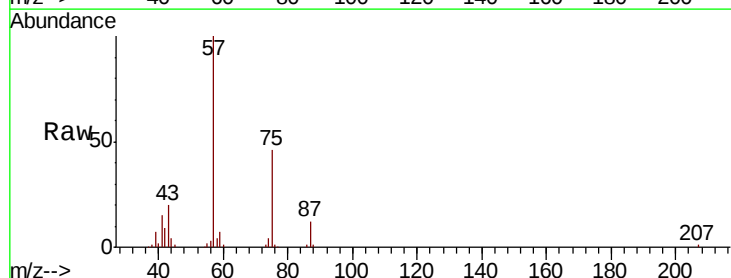
Acq: 16 Oct 2018 11:35

Tgt Ion: 43 Resp: 13473

Ion Ratio Lower Upper

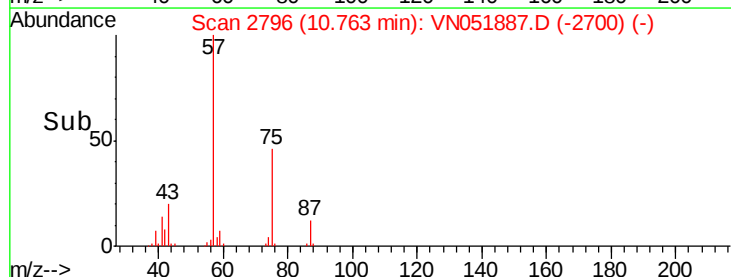
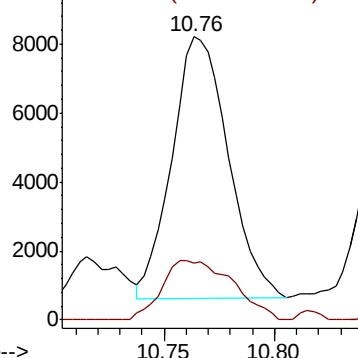
43 100

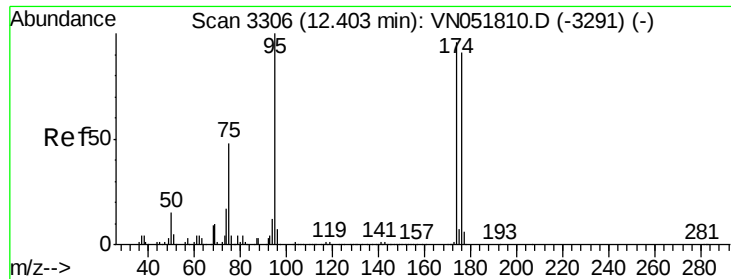
58 28.4 28.3 85.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

PB113865ZHE#02

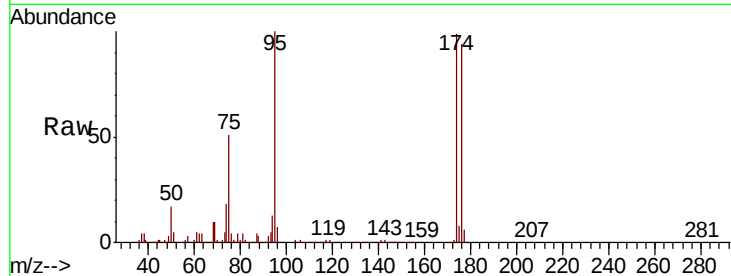
Tgt Ion: 95 Resp: 466873

Ion Ratio Lower Upper

95 100

174 97.5 0.0 183.0

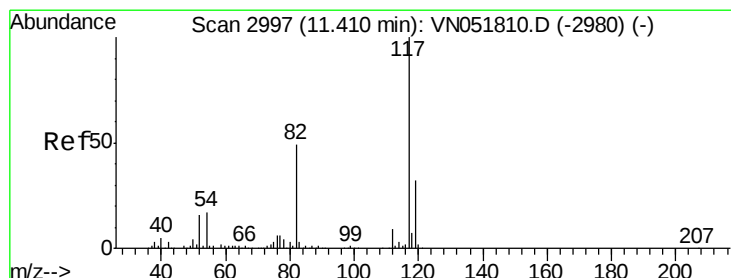
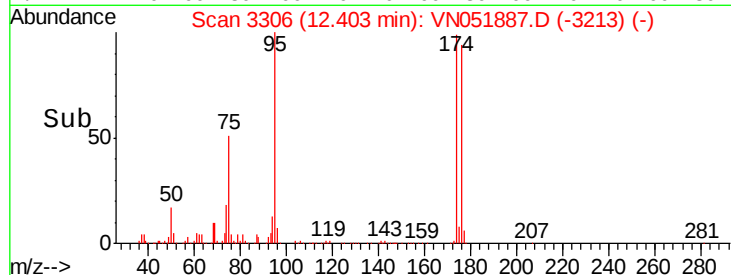
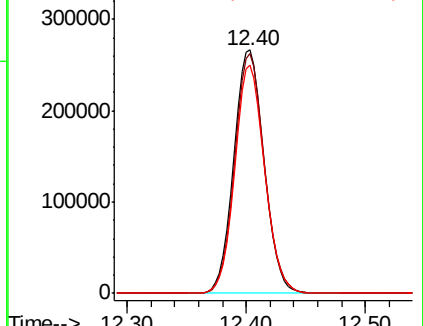
176 92.7 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN051887.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN051887.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN051887.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

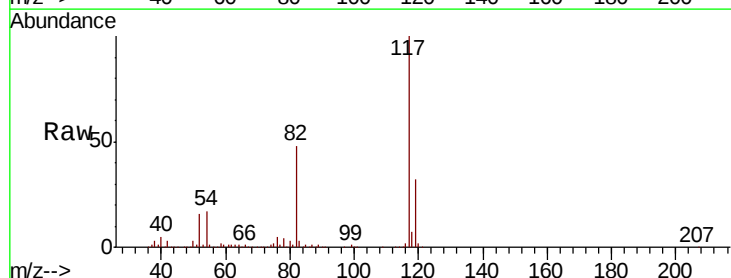
Tgt Ion: 117 Resp: 1064697

Ion Ratio Lower Upper

117 100

82 48.4 42.6 64.0

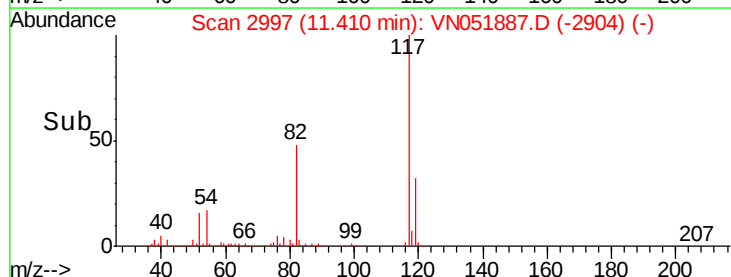
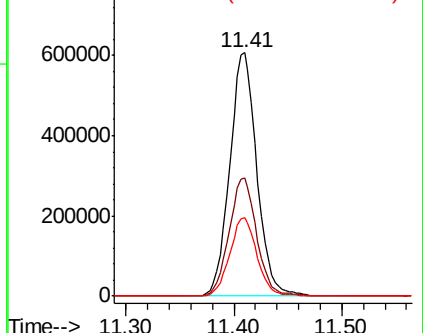
119 32.2 25.8 38.6

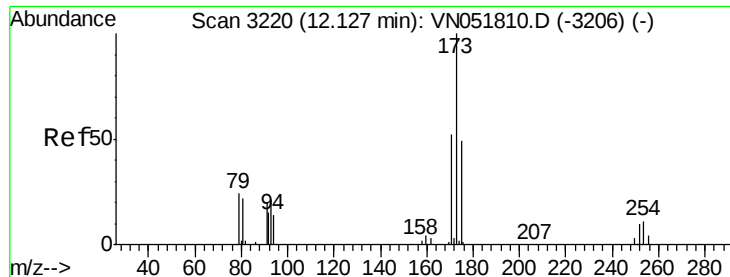


Abundance Ion 116.90 (116.60 to 117.60): VN051887.D (-2904) (-)

Ion 82.00 (81.70 to 82.70): VN051887.D (-2904) (-)

Ion 118.90 (118.60 to 119.60): VN051887.D (-2904) (-)

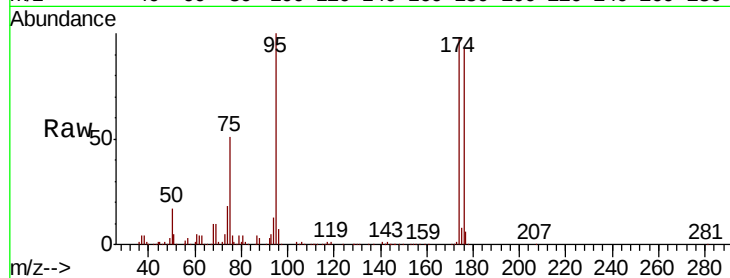




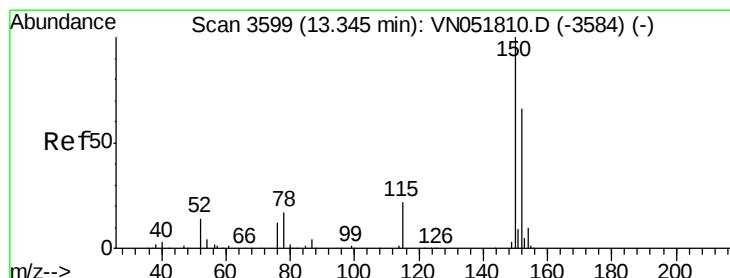
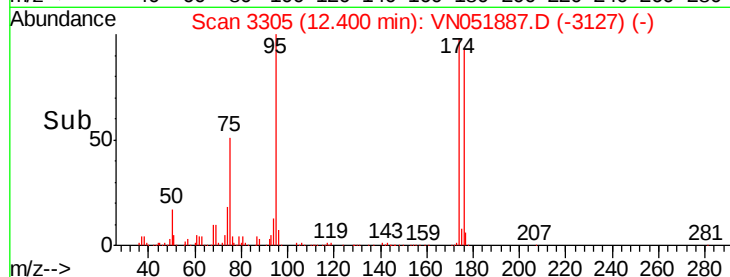
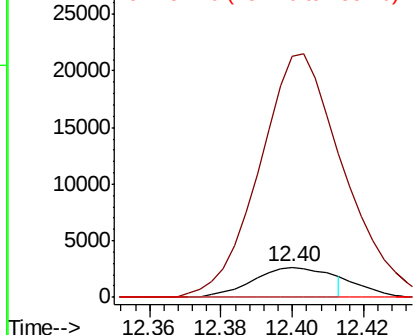
#71
Bromoform
Concen: 4.150 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051887.D
Acq: 16 Oct 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
PB113865ZHE#02

Tgt Ion:173 Resp: 3972
Ion Ratio Lower Upper
173 100
175 741.5 24.4 73.4#
254 0.0 0.1 0.1#

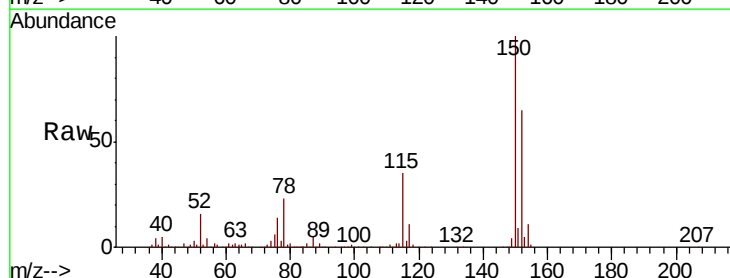


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

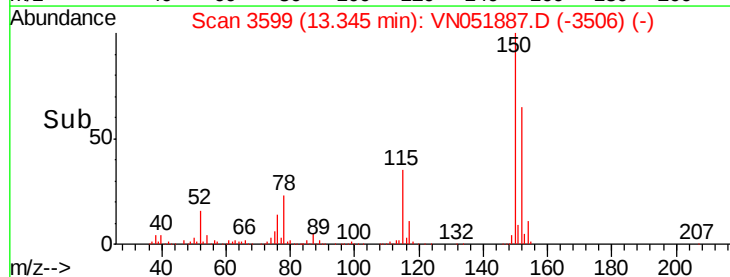
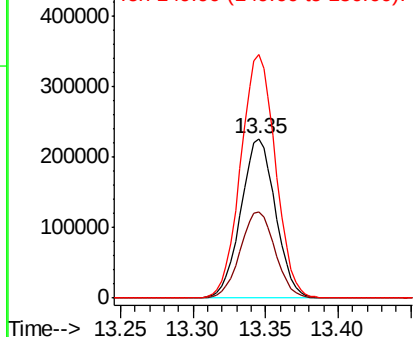


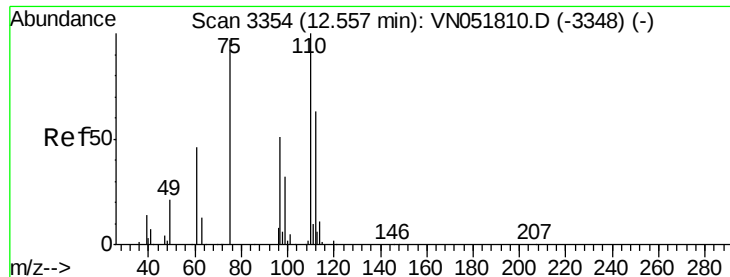
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051887.D
Acq: 16 Oct 2018 11:35

Tgt Ion:152 Resp: 374526
Ion Ratio Lower Upper
152 100
115 54.6 27.8 83.4
150 154.3 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 51.358 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

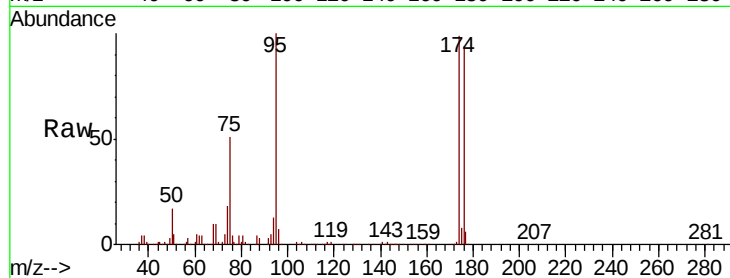
PB113865ZHE#02

Tgt Ion: 75 Resp: 237263

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

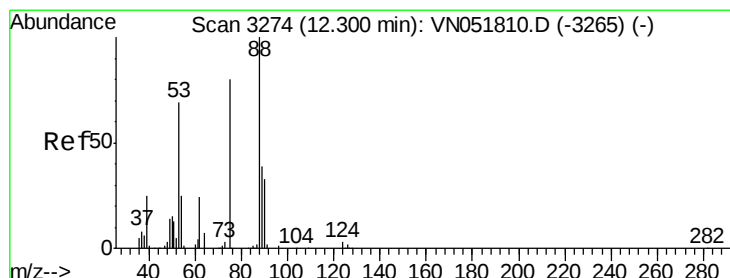
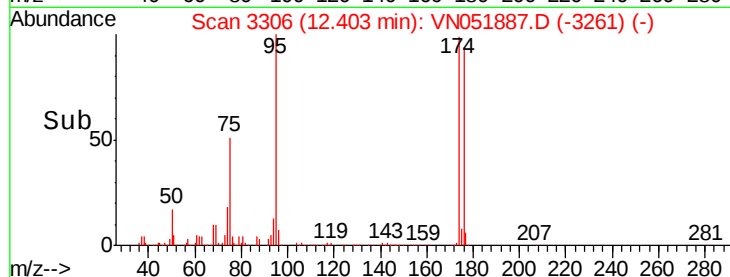
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 145.883 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051887.D

Acq: 16 Oct 2018 11:35

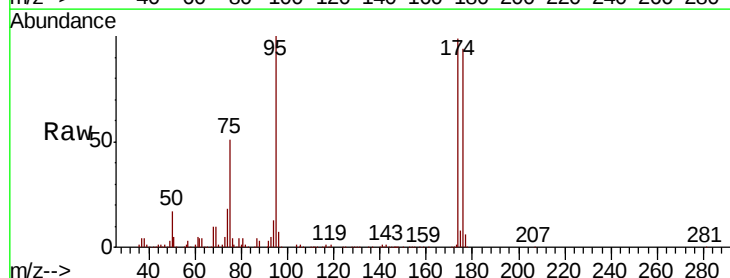
Tgt Ion: 75 Resp: 237263

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

89 0.0 36.1 54.1#



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

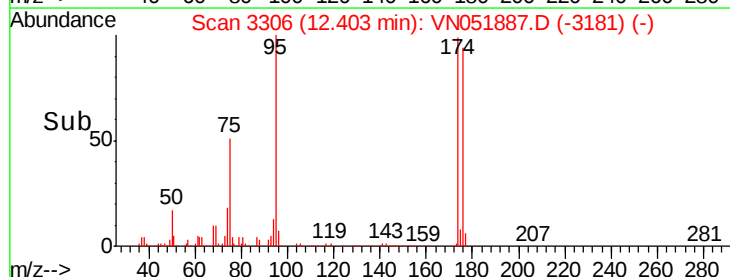
150000

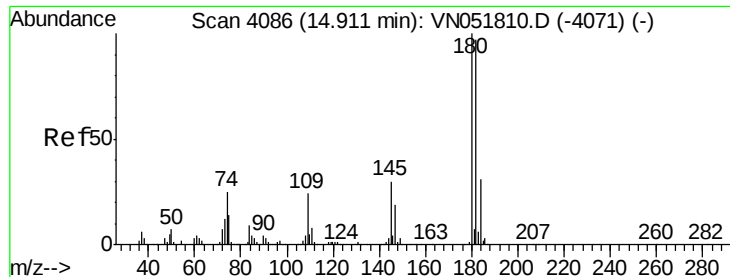
100000

50000

0

Time--> 12.30 12.40 12.50

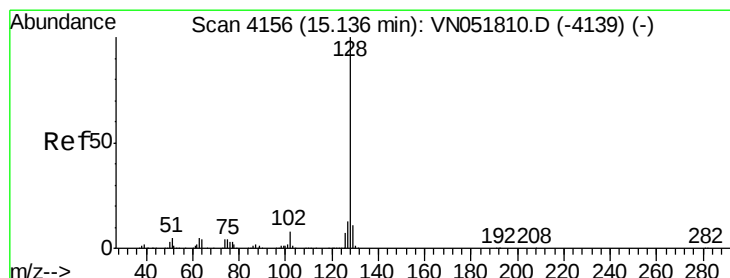
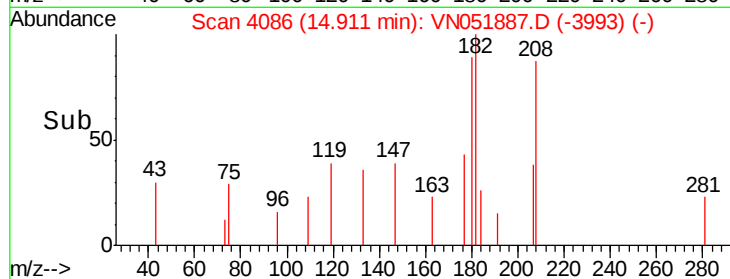
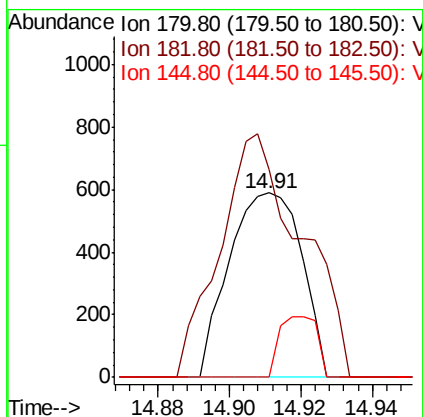
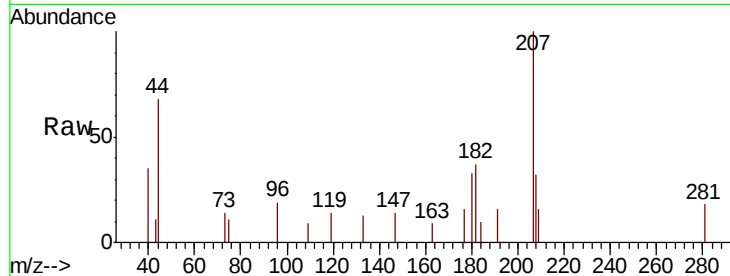




#93
 1,2,4-Trichlorobenzene
 Concen: 3.777 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

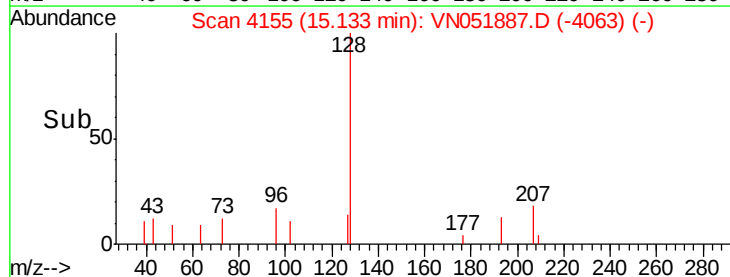
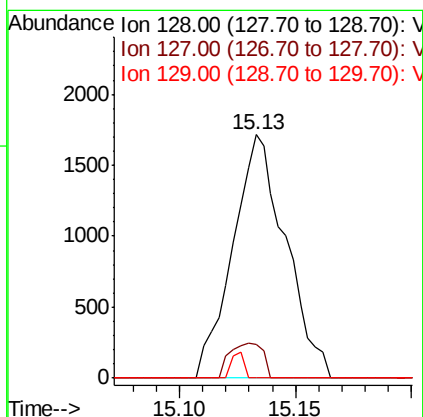
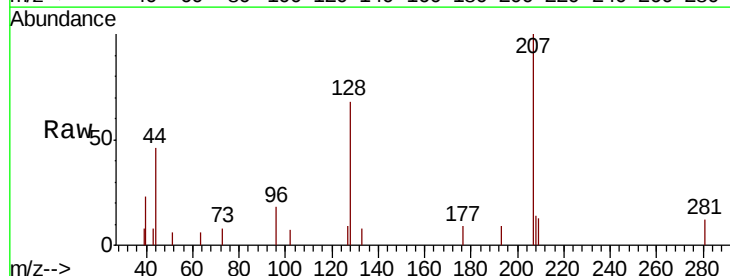
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113865ZHE#02

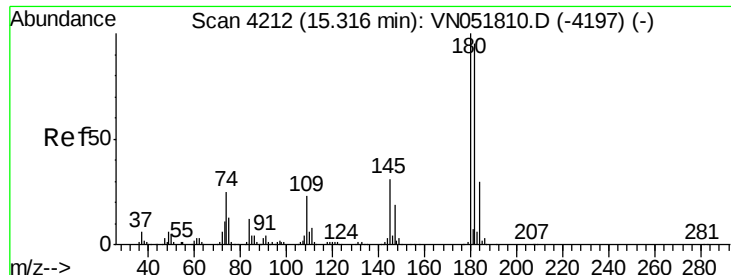
Tgt Ion:180 Resp: 829
 Ion Ratio Lower Upper
 180 100
 182 148.3 48.2 144.6#
 145 17.1 14.1 42.2



#95
 Naphthalene
 Concen: 4.576 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

Tgt Ion:128 Resp: 2715
 Ion Ratio Lower Upper
 128 100
 127 9.0 10.5 15.7#
 129 2.4 8.7 13.1#

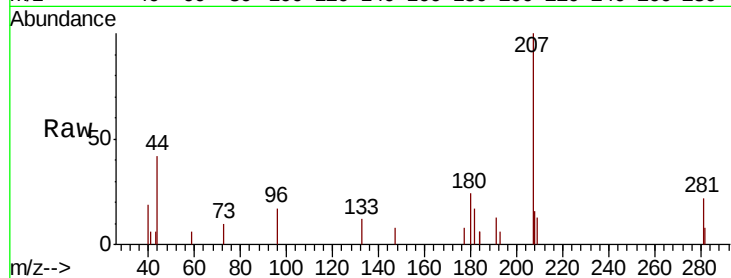




#96
 1,2,3-Trichlorobenzene
 Concen: 2.993 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051887.D
 Acq: 16 Oct 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113865ZHE#02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	106.6	48.0	144.2
145	23.9	15.2	45.6



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

