

Data File : VN051922.D
Acq On : 18 Oct 2018 17:48
Operator : MD\SY
Sample : PB113908ZHE#03
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#03

Quant Time: Oct 19 06:49:42 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1004757	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1458402	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1281570	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	450312	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	542262	58.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.44%	
35) Dibromofluoromethane	7.59	113	535470	57.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.54%	
50) Toluene-d8	10.09	98	1974513	58.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.04%	
62) 4-Bromofluorobenzene	12.40	95	565211	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	

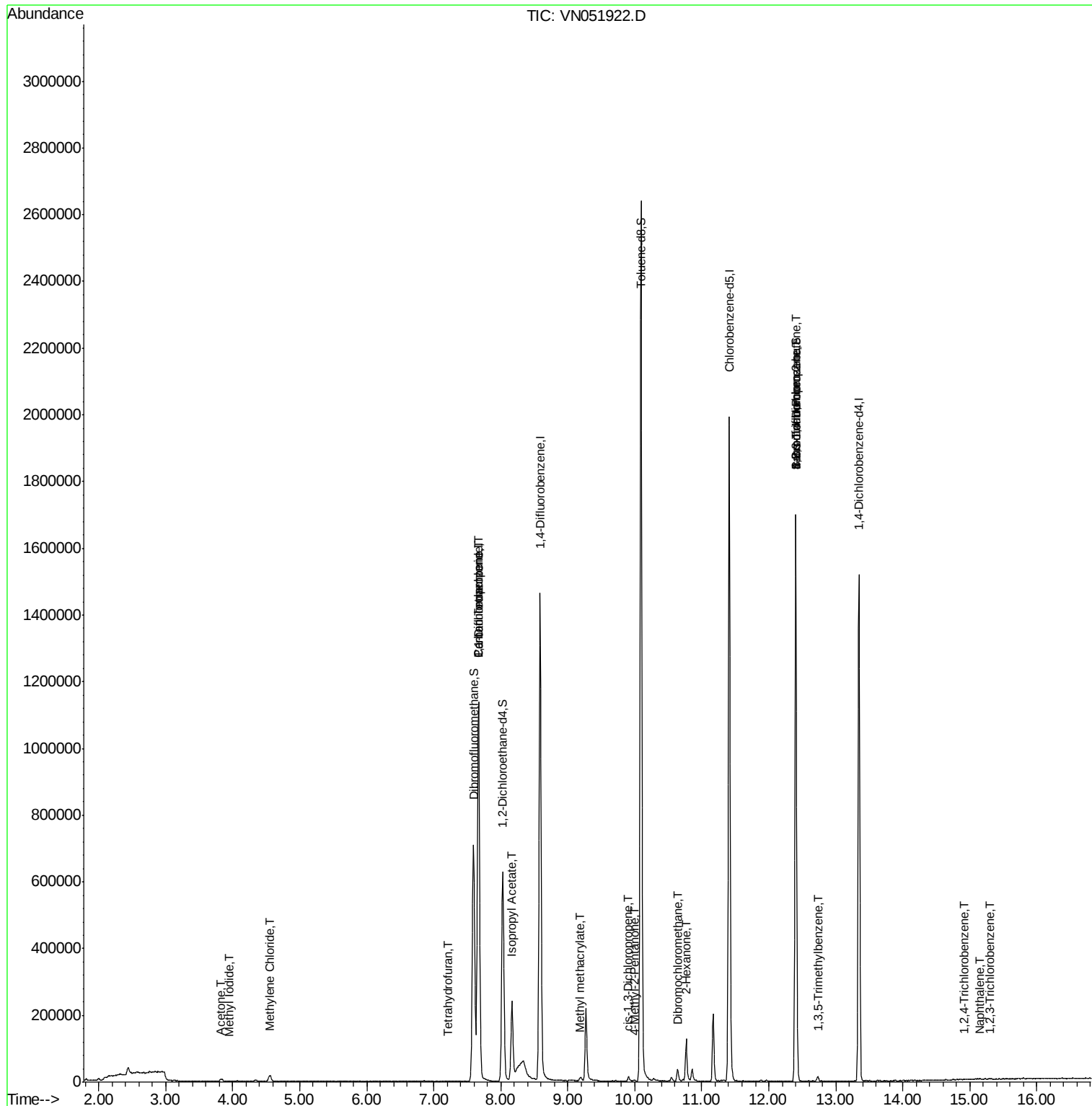
Target Compounds			Qvalue			
5) Bromomethane	2.57	94	2945	Below Cal		89
10) Methyl Iodide	3.95	142	170	3.297 ug/l #		41
13) Acrolein	3.59	56	30	Below Cal #		65
16) Acetone	3.82	43	11899	7.214 ug/l		90
18) Methyl Acetate	4.34	43	7019	Below Cal #		67
20) Methylene Chloride	4.55	84	14035	1.674 ug/l		91
29) Tetrahydrofuran	7.22	42	1129	0.784 ug/l #		48
31) Cyclohexane	7.66	56	16200	Below Cal #		46
36) 1,1-Dichloropropene	7.67	75	61378	5.422 ug/l #		48
37) Ethyl Acetate	6.94	43	251	Below Cal #		64
38) Carbon Tetrachloride	7.67	117	88317	6.625 ug/l #		15
43) Isopropyl Acetate	8.17	43	272606	25.863 ug/l #		87
48) Methyl methacrylate	9.18	41	5762	1.261 ug/l #		8
51) 4-Methyl-2-Pentanone	9.99	43	1732	0.329 ug/l		93
54) cis-1,3-Dichloropropene	9.90	75	2728	0.221 ug/l #		69
59) 2-Hexanone	10.77	43	17879	5.060 ug/l #		51
60) Dibromochloromethane	10.64	129	113	2.061 ug/l #		11
71) Bromoform	12.41	173	5153	3.906 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	279129	50.998 ug/l #		100
79) 2-Chlorotoluene	12.67	91	159	Below Cal #		36
80) 1,3,5-Trimethylbenzene	12.73	105	6375	0.226 ug/l		96
81) trans-1,4-Dichloro-2-buten	12.40	75	279129	167.588 ug/l #		14
93) 1,2,4-Trichlorobenzene	14.91	180	271	4.095 ug/l		84
95) Naphthalene	15.14	128	1171	4.134 ug/l #		86
96) 1,2,3-Trichlorobenzene	15.30	180	233	2.945 ug/l #		12

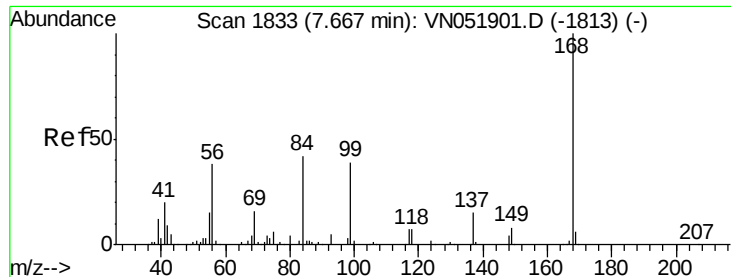
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051922.D

Acq: 18 Oct 2018 17:48

Instrument :

MSVOA_N

ClientSampleId :

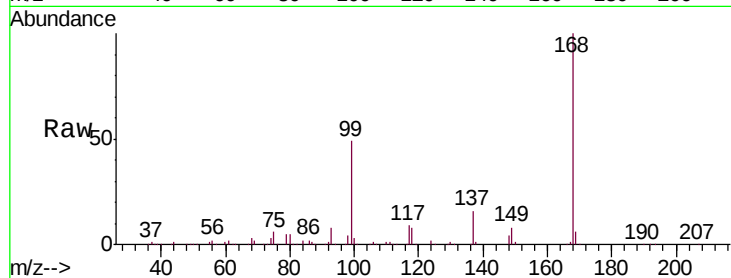
PB113908ZHE#03

Tgt Ion:168 Resp: 1004757

Ion Ratio Lower Upper

168 100

99 48.7 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

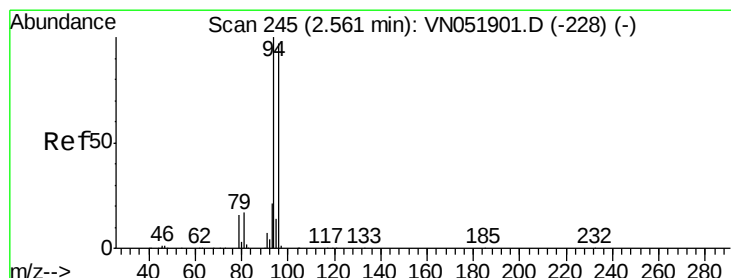
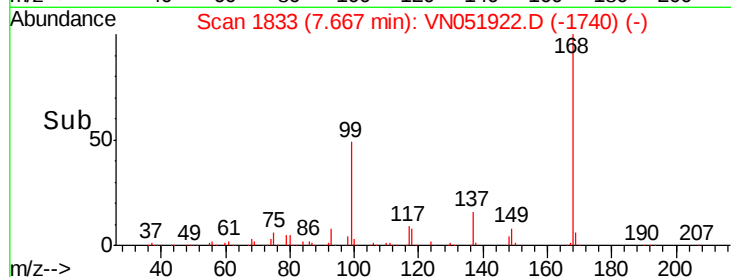
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051922.D

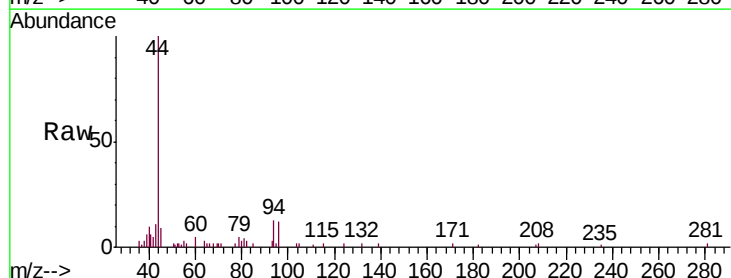
Acq: 18 Oct 2018 17:48

Tgt Ion: 94 Resp: 2945

Ion Ratio Lower Upper

94 100

96 86.5 77.5 116.3



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

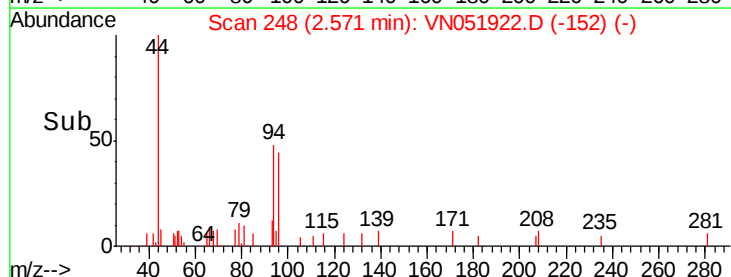
1500

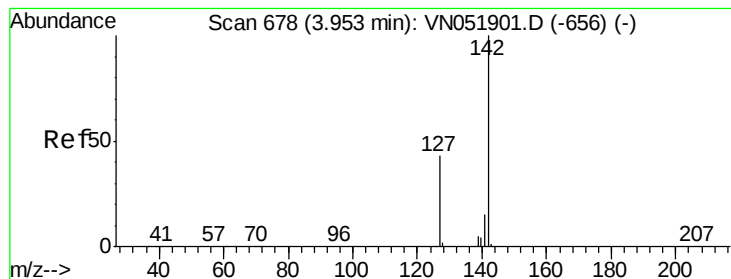
1000

500

0

Time-->





#10

Methyl Iodide

Concen: 3.297 ug/l

RT: 3.95 min Scan# 677

Delta R.T. -0.00 min

Lab File: VN051922.D

Acq: 18 Oct 2018 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#03

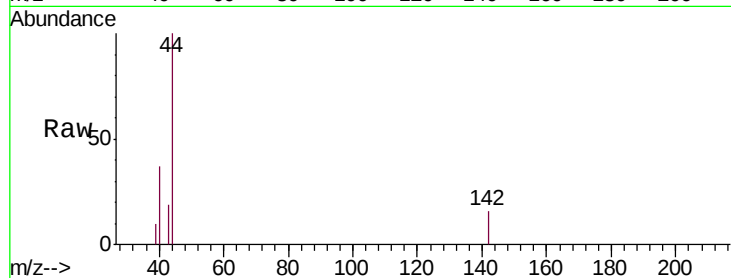
Tgt Ion: 142 Resp: 170

Ion Ratio Lower Upper

142 100

127 0.0 34.3 51.5#

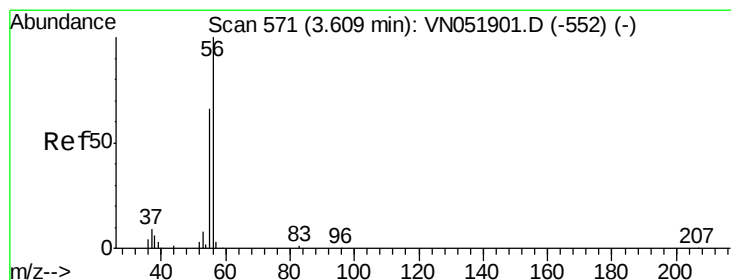
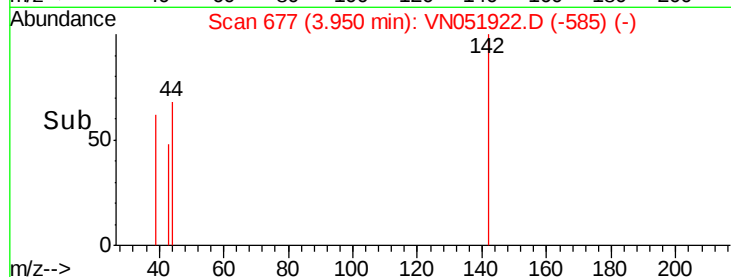
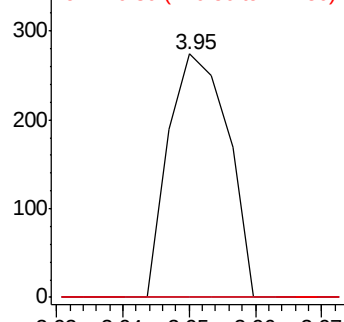
141 0.0 11.1 16.7#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#13

Acrolein

Concen: Below Cal

RT: 3.59 min Scan# 566

Delta R.T. -0.02 min

Lab File: VN051922.D

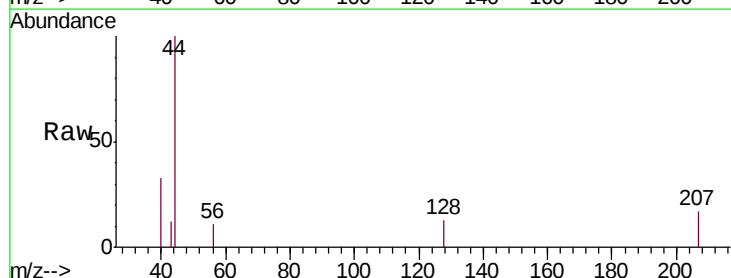
Acq: 18 Oct 2018 17:48

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

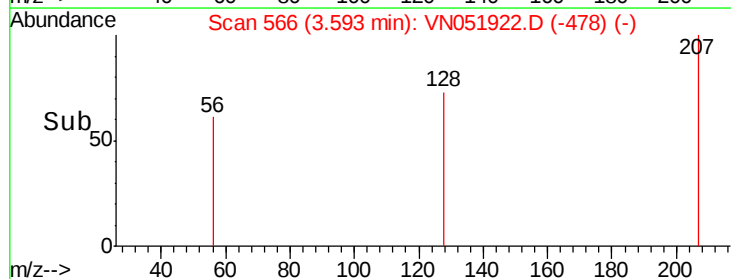
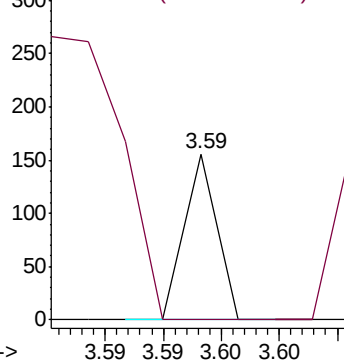
56 100

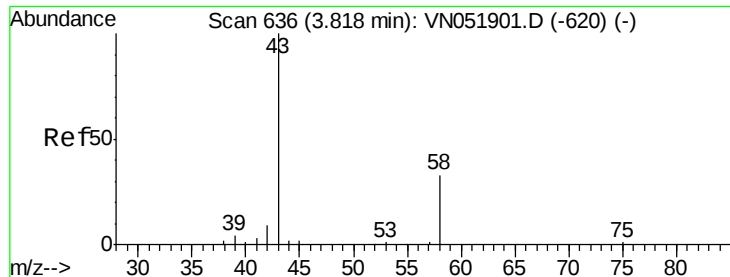
55 100.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): V

Ion 55.00 (54.70 to 55.70): V





#16

Acetone

Concen: 7.214 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN051922.D

Acq: 18 Oct 2018 17:48

Instrument :

MSVOA_N

ClientSampleId :

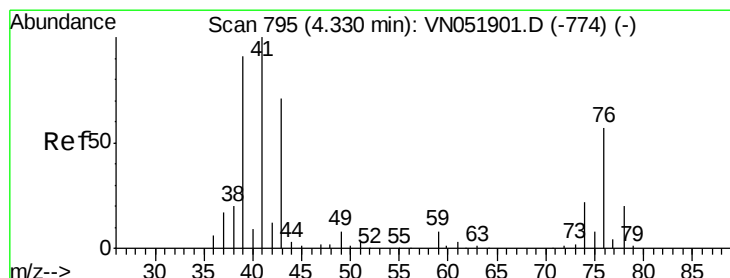
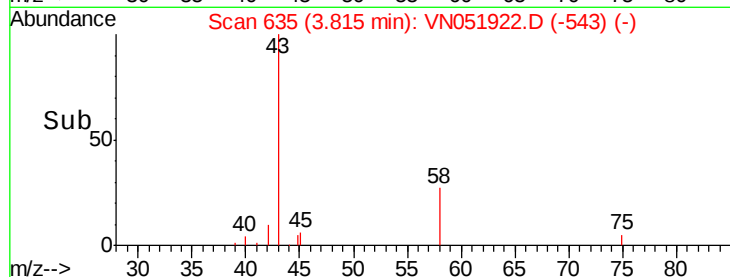
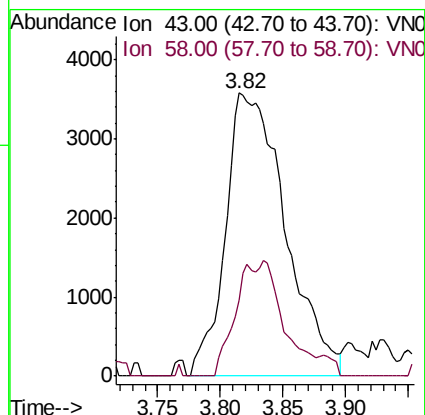
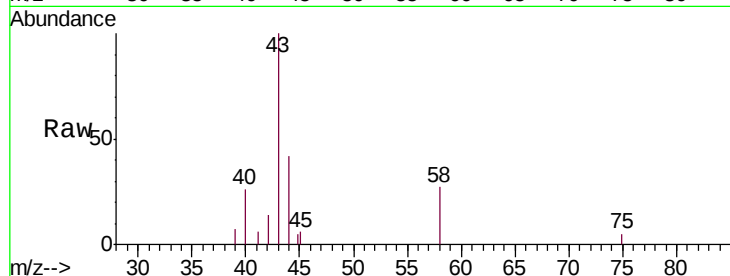
PB113908ZHE#03

Tgt Ion: 43 Resp: 11899

Ion Ratio Lower Upper

43 100

58 26.7 25.9 38.9



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051922.D

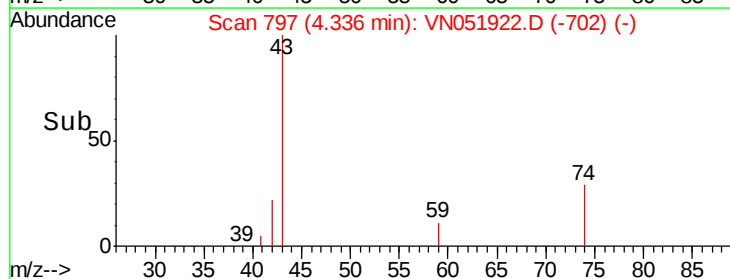
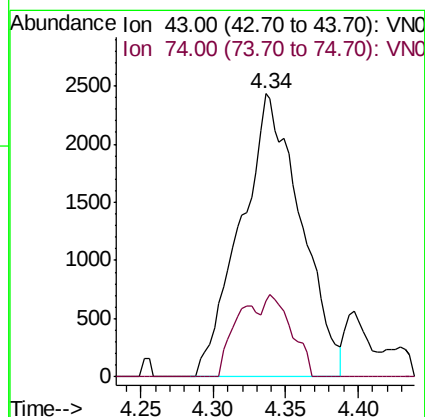
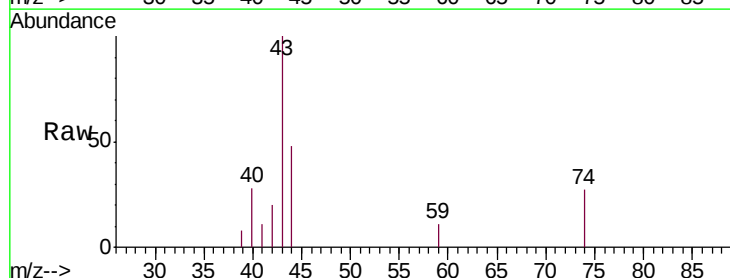
Acq: 18 Oct 2018 17:48

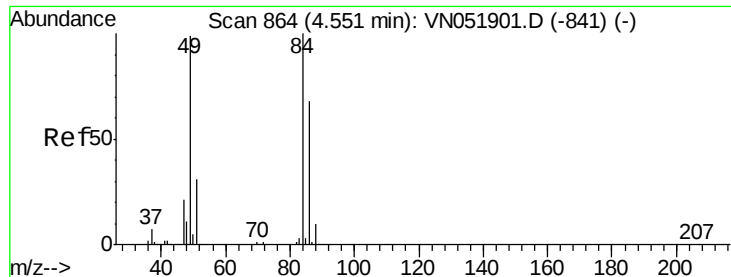
Tgt Ion: 43 Resp: 7019

Ion Ratio Lower Upper

43 100

74 13.2 24.9 37.3#





#20

Methylene Chloride

Concen: 1.674 ug/l

RT: 4.55 min Scan# 863

Delta R.T. -0.00 min

Lab File: VN051922.D

Acq: 18 Oct 2018 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#03

Tgt Ion: 84 Resp: 14035

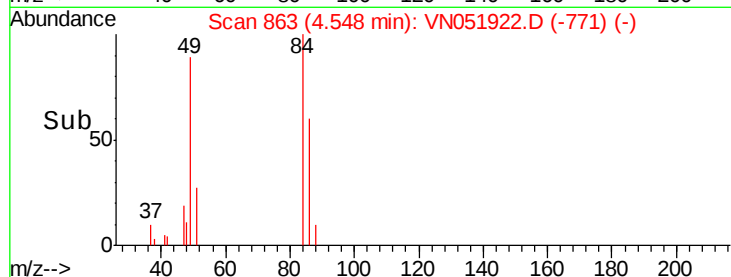
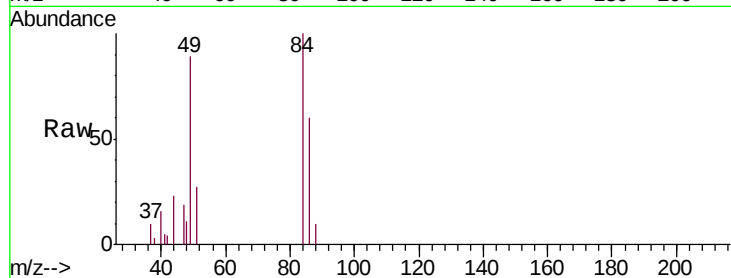
Ion Ratio Lower Upper

84 100

49 89.2 79.0 118.4

51 27.0 24.9 37.3

86 60.2 54.6 82.0

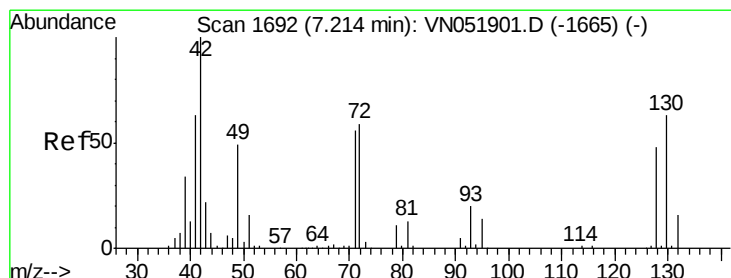
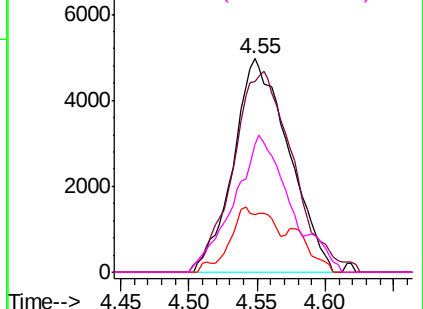


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#29

Tetrahydrofuran

Concen: 0.784 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051922.D

Acq: 18 Oct 2018 17:48

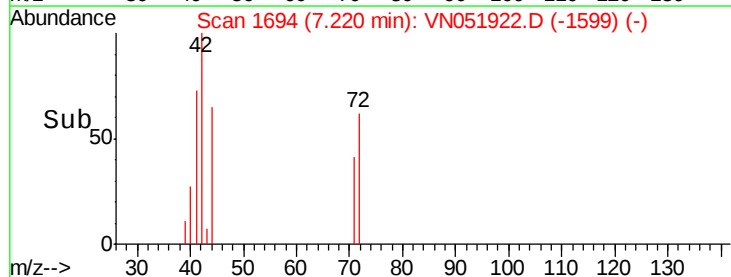
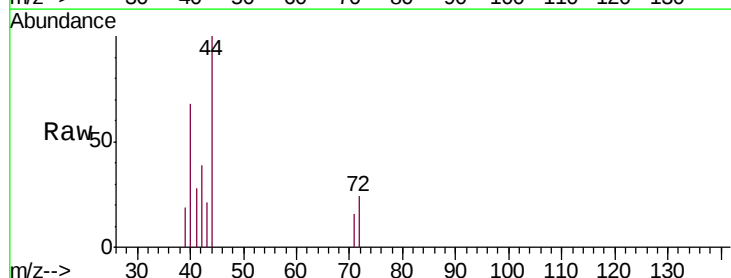
Tgt Ion: 42 Resp: 1129

Ion Ratio Lower Upper

42 100

72 26.5 47.7 71.5#

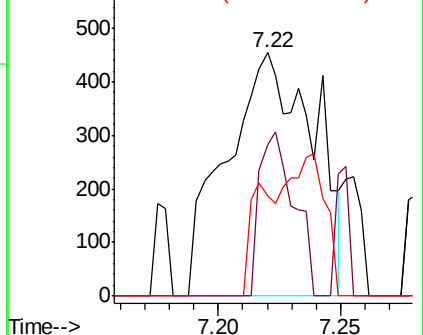
71 12.8 45.4 68.0#

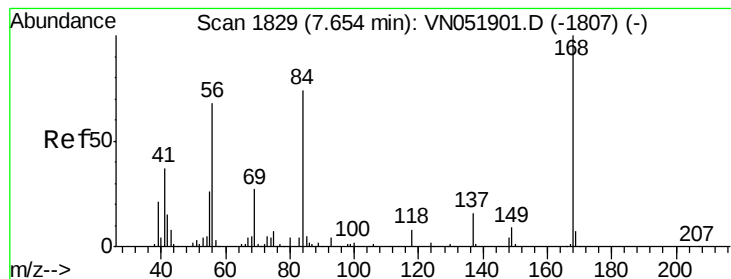


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051922.D

Acq: 18 Oct 2018 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#03

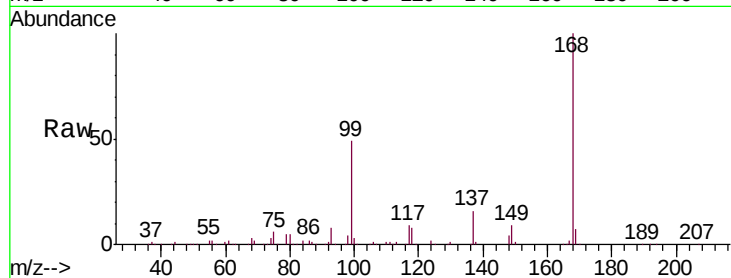
Tgt Ion: 56 Resp: 16200

Ion Ratio Lower Upper

56 100

69 147.6 31.2 46.8#

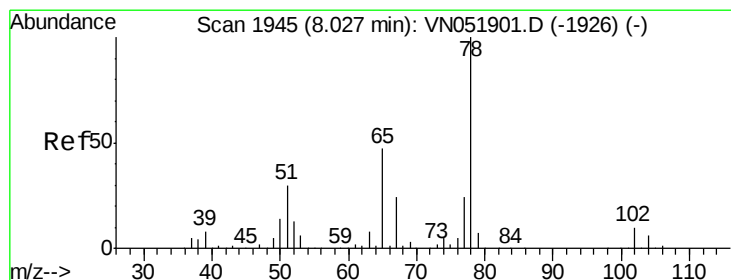
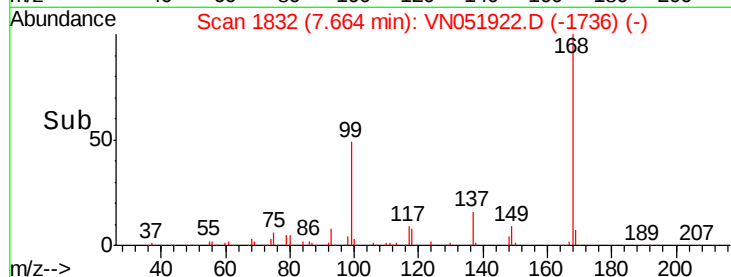
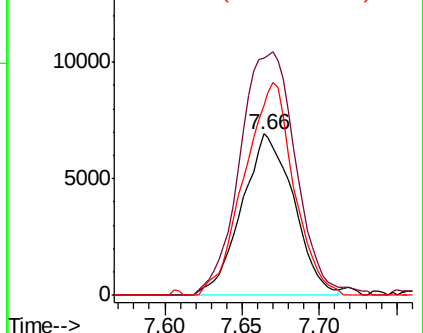
84 117.6 86.6 130.0



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# 1946

Delta R.T. 0.00 min

Lab File: VN051922.D

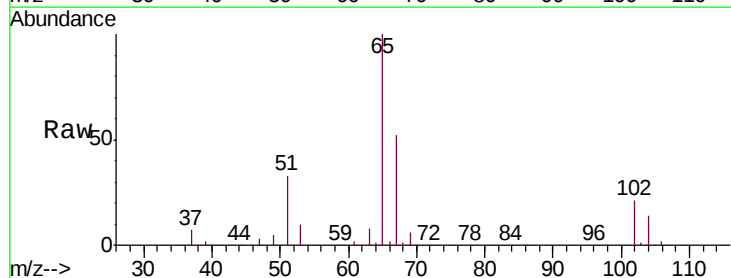
Acq: 18 Oct 2018 17:48

Tgt Ion: 65 Resp: 542262

Ion Ratio Lower Upper

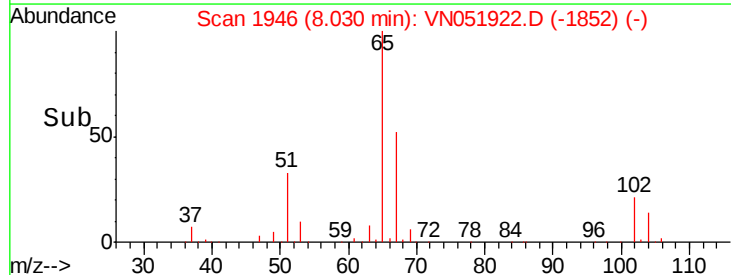
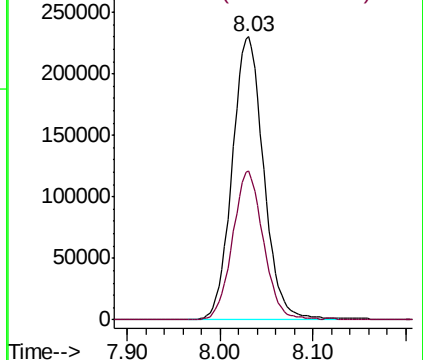
65 100

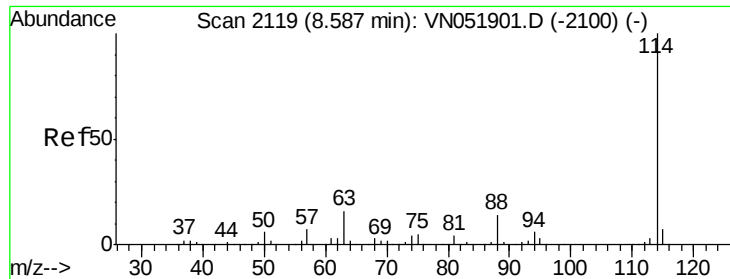
67 51.4 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

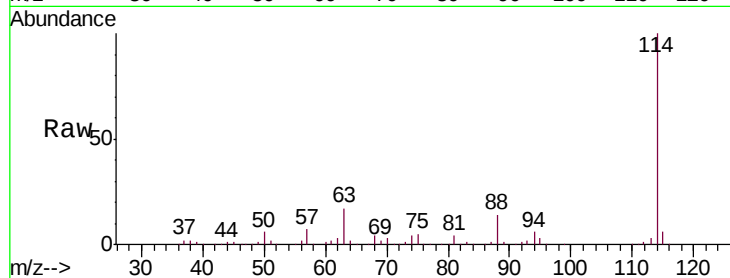




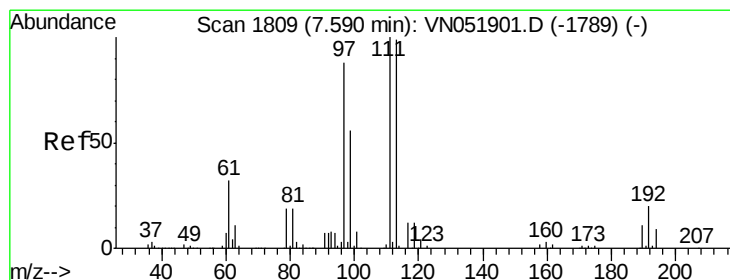
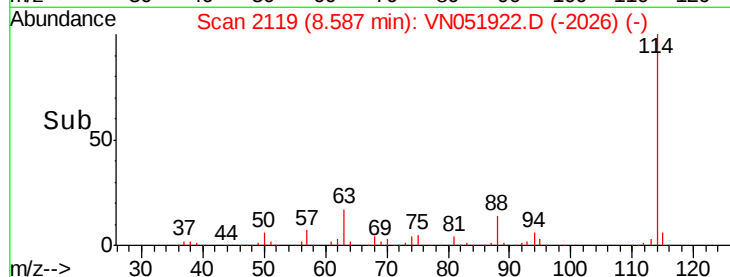
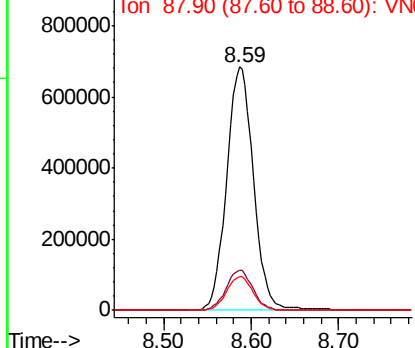
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

Instrument :
 MSVOA_N
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 PB113908ZHE#03

Tgt Ion:114 Resp: 1458402
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 31.8
 88 13.7 0.0 28.0

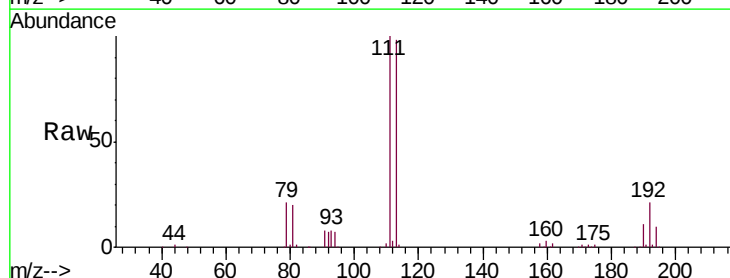


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

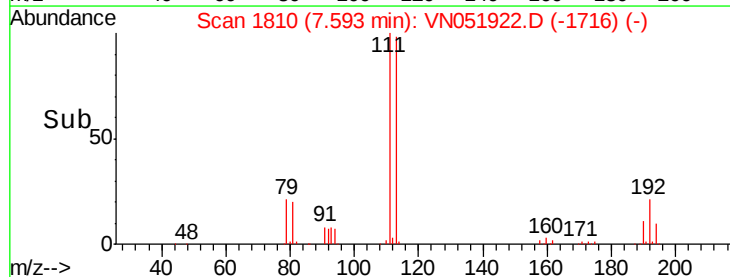
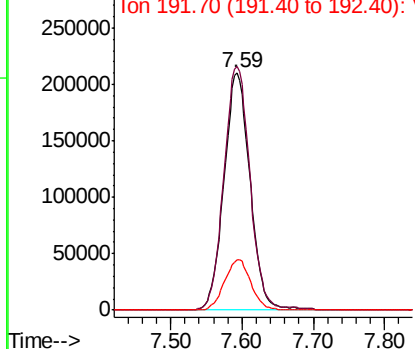


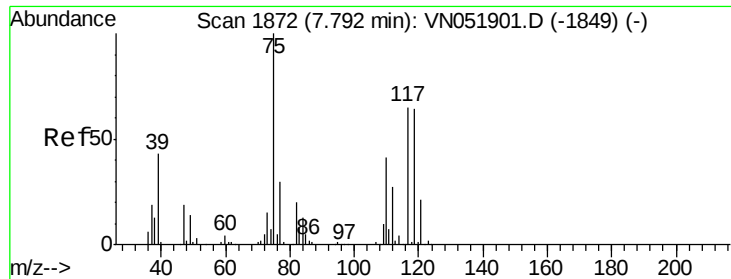
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

Tgt Ion:113 Resp: 535470
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.6 123.8
 192 21.5 17.3 25.9



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

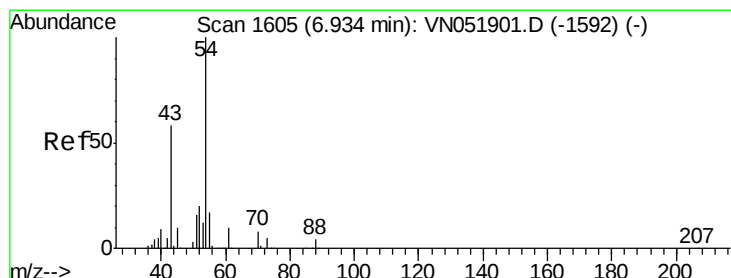
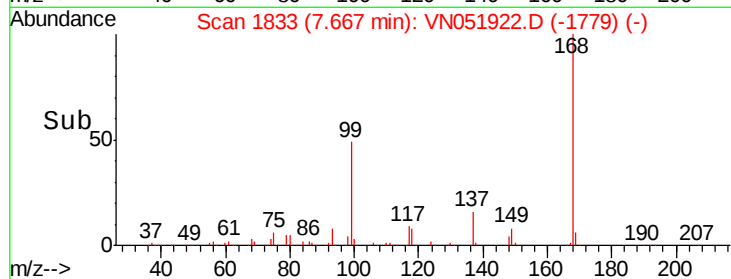
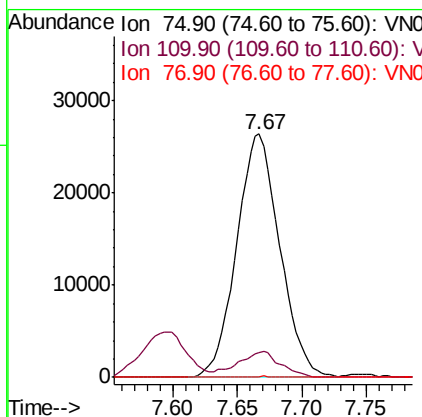
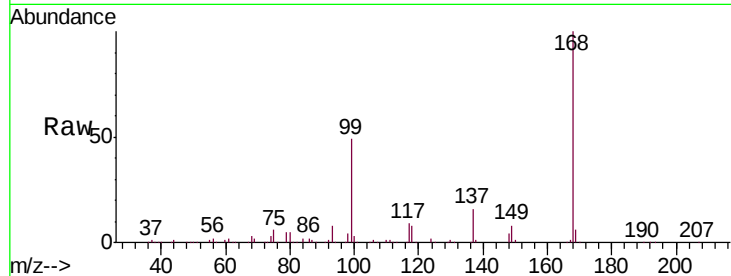




#36
 1,1-Dichloropropene
 Concen: 5.422 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

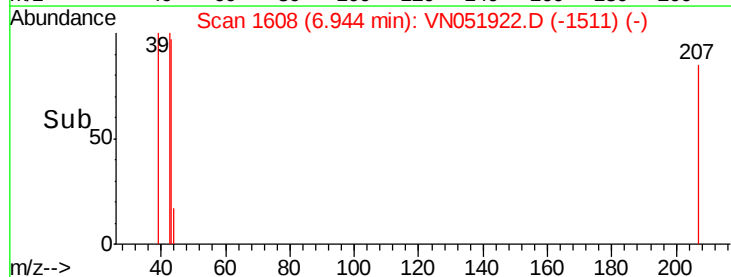
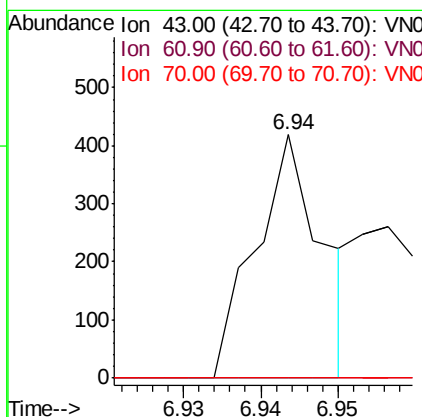
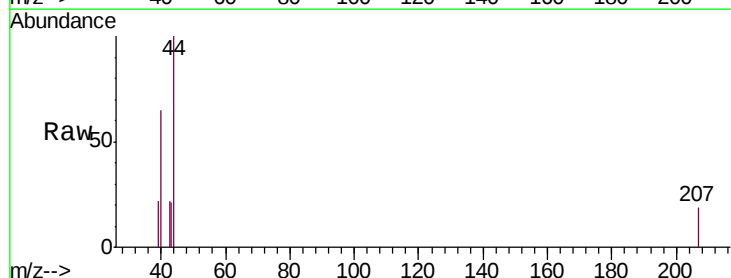
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#03

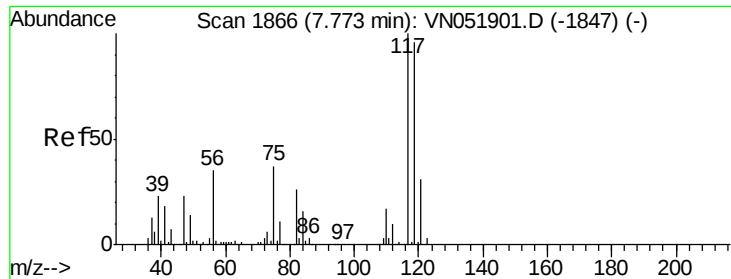
Tgt Ion: 75 Resp: 61378
 Ion Ratio Lower Upper
 75 100
 110 10.7 21.0 63.0#
 77 0.0 24.9 37.3#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.94 min Scan# 1608
 Delta R.T. 0.01 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

Tgt Ion: 43 Resp: 251
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.0 19.6#
 70 0.0 10.4 15.6#

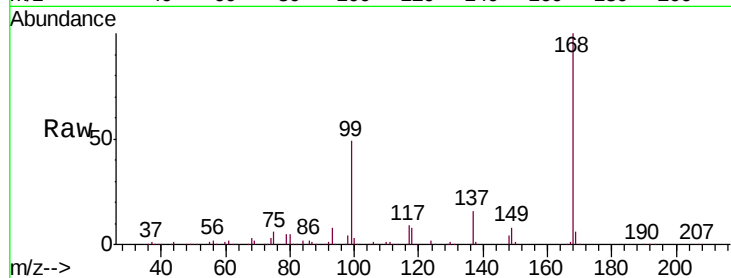




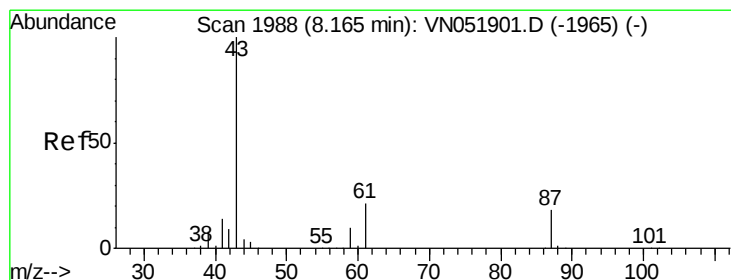
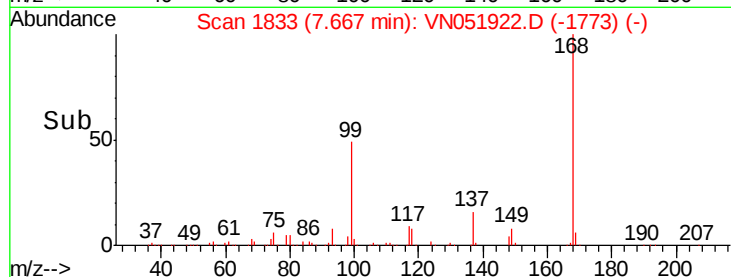
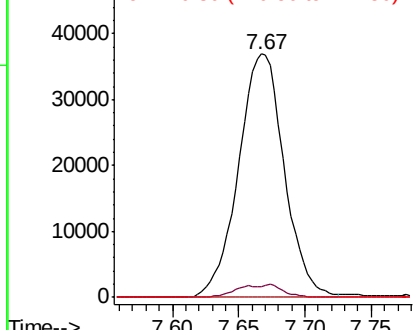
#38
Carbon Tetrachloride
Concen: 6.625 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051922.D
Acq: 18 Oct 2018 17:48

Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#03

Tgt Ion:117 Resp: 88317
Ion Ratio Lower Upper
117 100
119 4.4 77.0 115.6#
121 0.0 25.1 37.7#

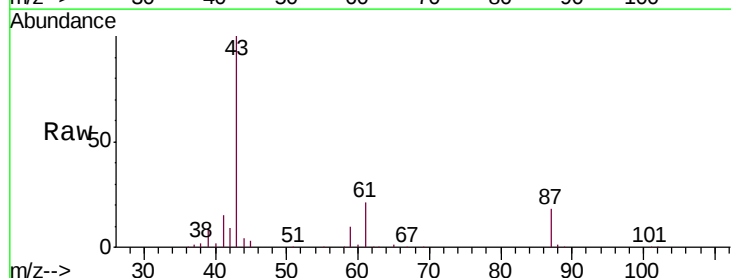


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

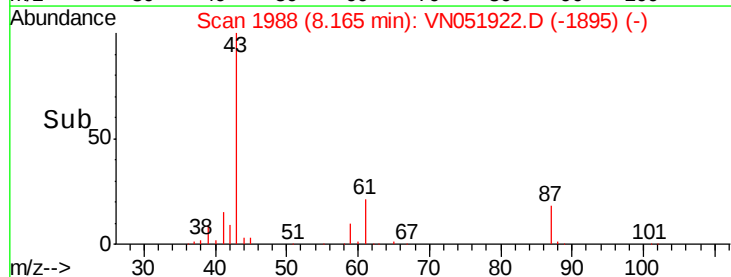
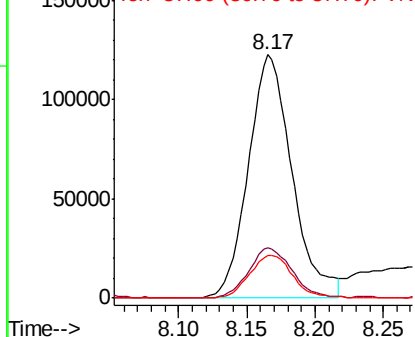


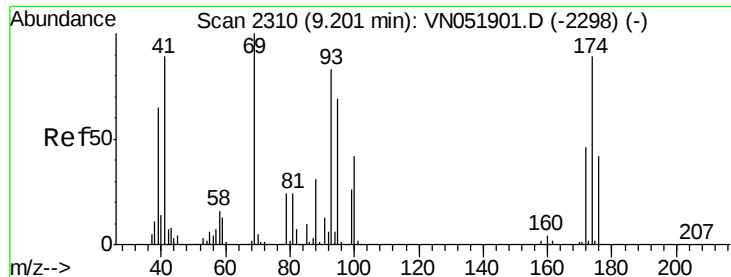
#43
Isopropyl Acetate
Concen: 25.863 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051922.D
Acq: 18 Oct 2018 17:48

Tgt Ion: 43 Resp: 272606
Ion Ratio Lower Upper
43 100
61 20.7 24.9 37.3#
87 17.5 14.6 22.0



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

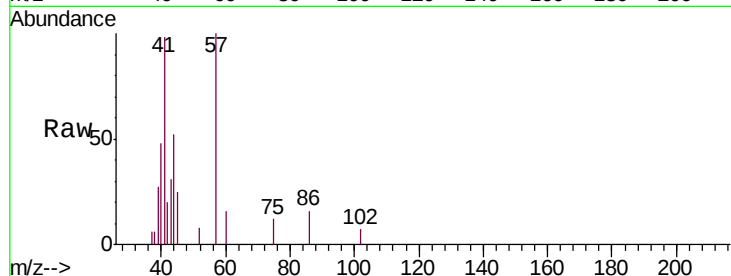




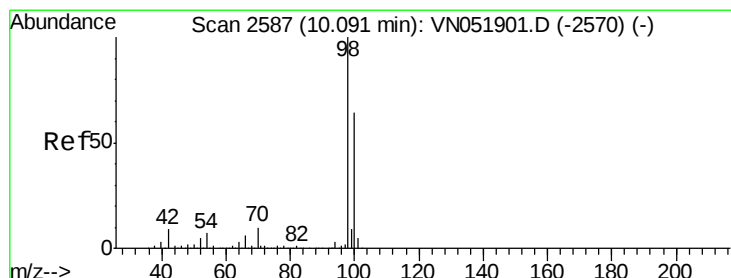
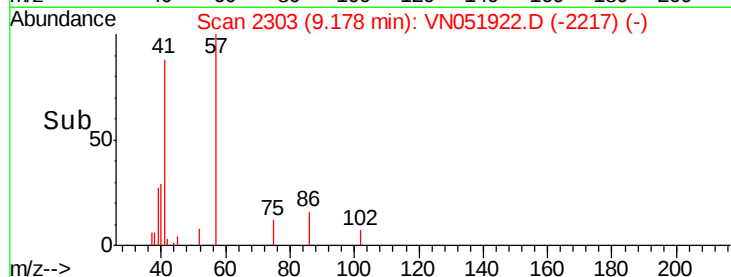
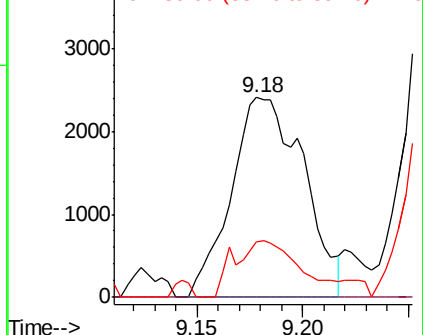
#48
Methyl methacrylate
Concen: 1.261 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051922.D
Acq: 18 Oct 2018 17:48

Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#03

Tgt Ion: 41 Resp: 5762
Ion Ratio Lower Upper
41 100
69 0.0 90.2 135.2#
39 14.1 59.7 89.5#

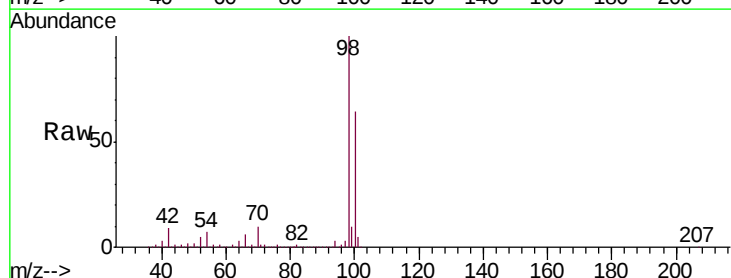


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

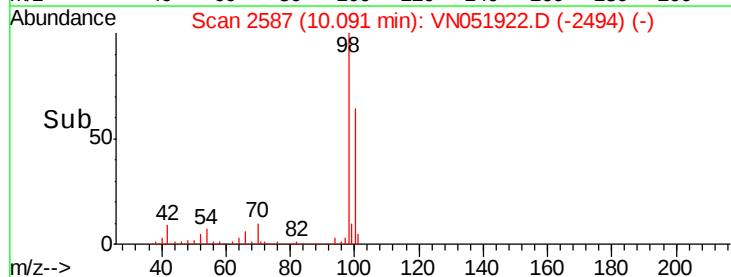
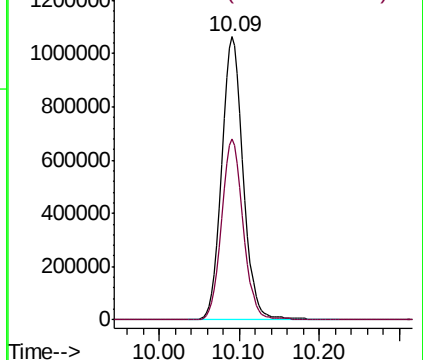


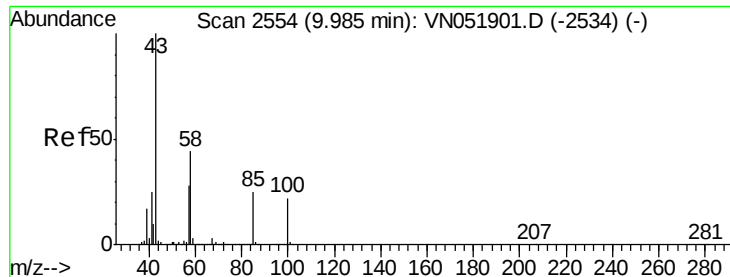
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051922.D
Acq: 18 Oct 2018 17:48

Tgt Ion: 98 Resp: 1974513
Ion Ratio Lower Upper
98 100
100 64.5 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

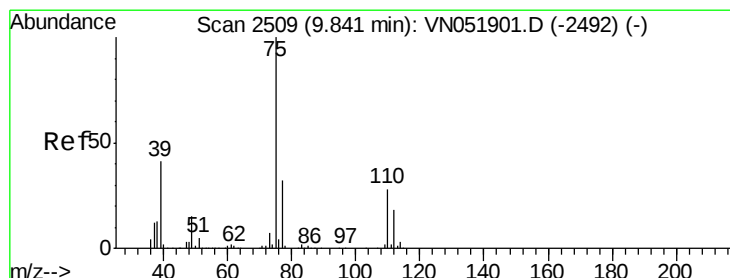
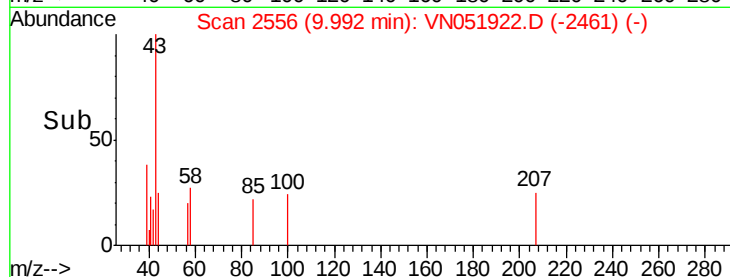
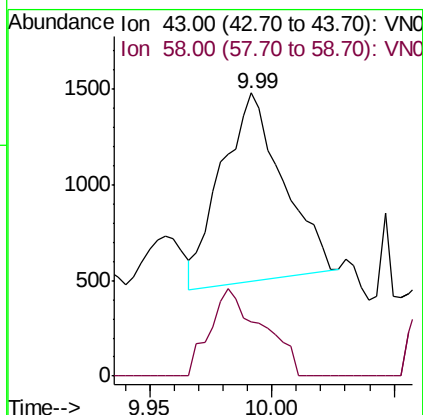
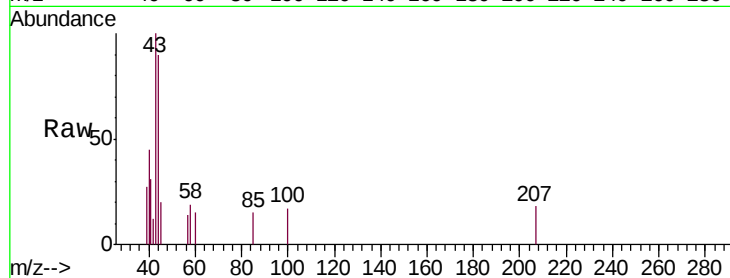




#51
 4-Methyl-2-Pentanone
 Concen: 0.329 ug/l
 RT: 9.99 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

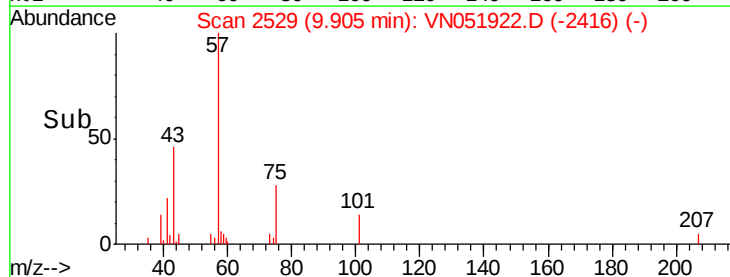
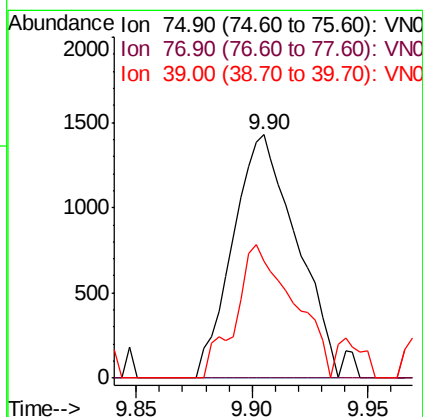
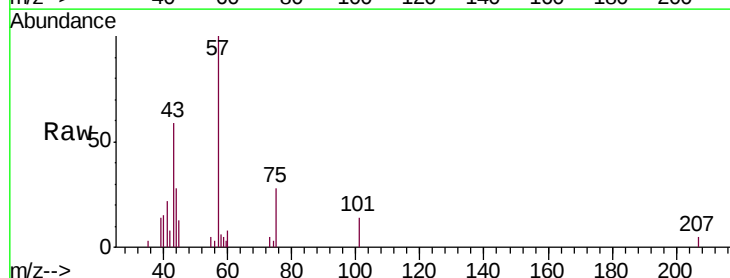
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#03

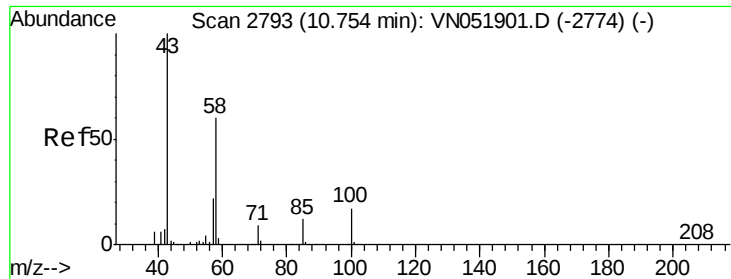
Tgt Ion: 43 Resp: 1732
 Ion Ratio Lower Upper
 43 100
 58 39.1 34.6 52.0



#54
 cis-1,3-Dichloropropene
 Concen: 0.221 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

Tgt Ion: 75 Resp: 2728
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 47.9 32.8 49.2

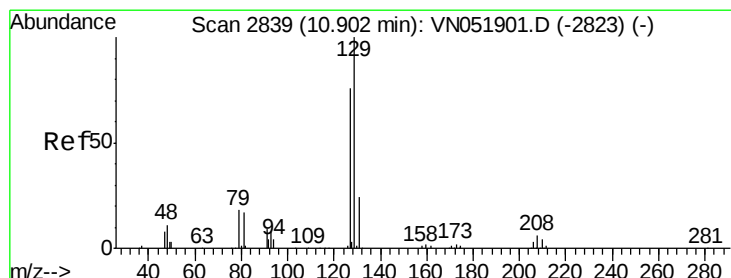
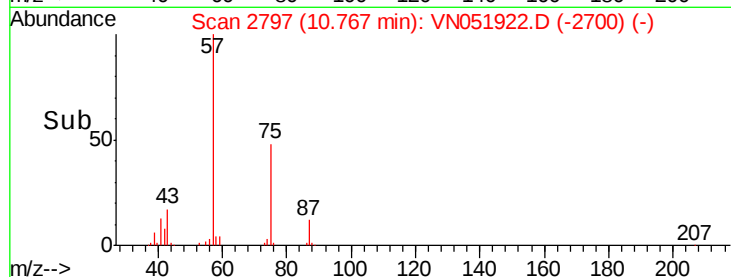
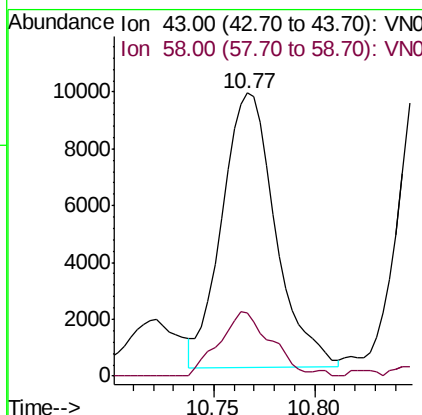
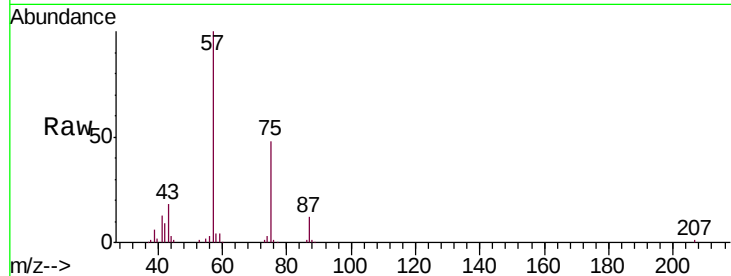




#59
2-Hexanone
Concen: 5.060 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051922.D
Acq: 18 Oct 2018 17:48

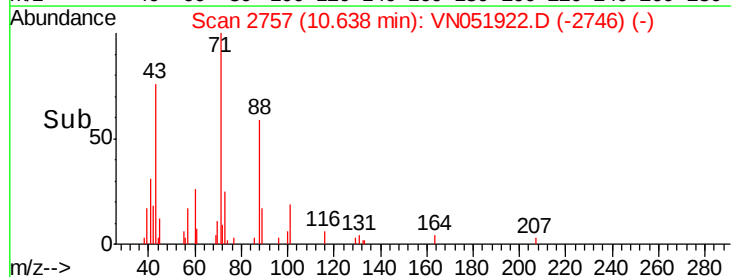
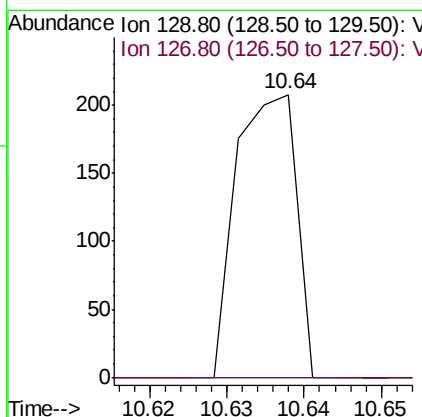
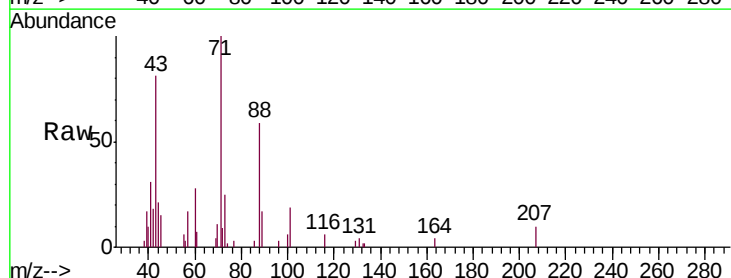
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#03

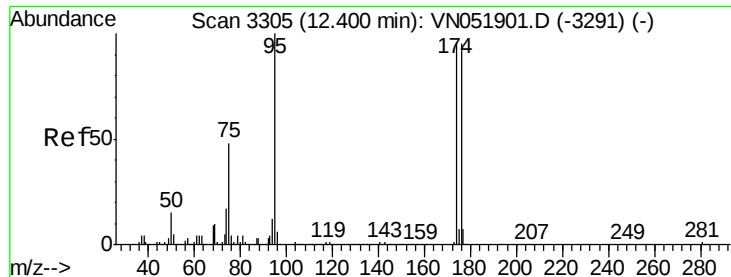
Tgt Ion: 43 Resp: 17879
Ion Ratio Lower Upper
43 100
58 23.1 29.8 89.5#



#60
Dibromochloromethane
Concen: 2.061 ug/l
RT: 10.64 min Scan# 2757
Delta R.T. -0.26 min
Lab File: VN051922.D
Acq: 18 Oct 2018 17:48

Tgt Ion: 129 Resp: 113
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#

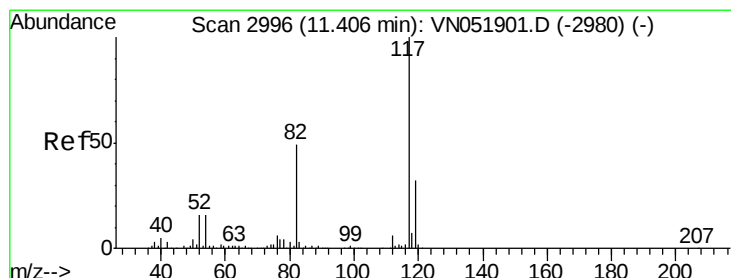
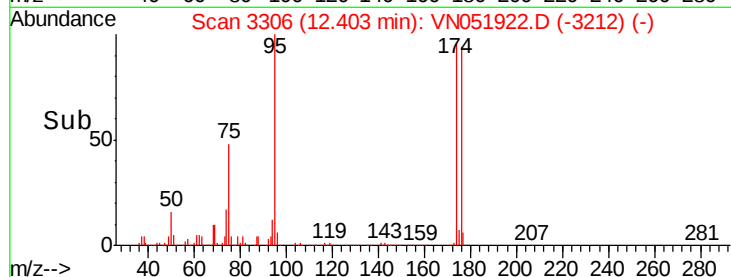
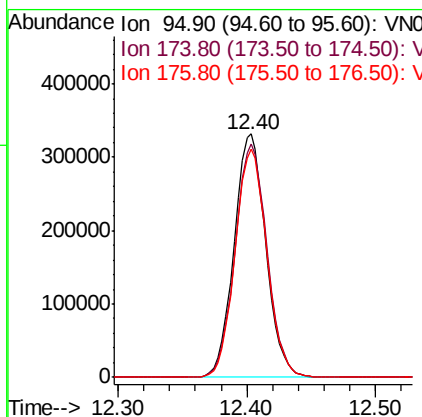
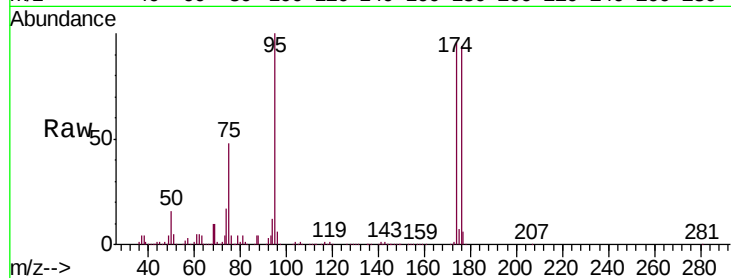




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051922.D
Acq: 18 Oct 2018 17:48

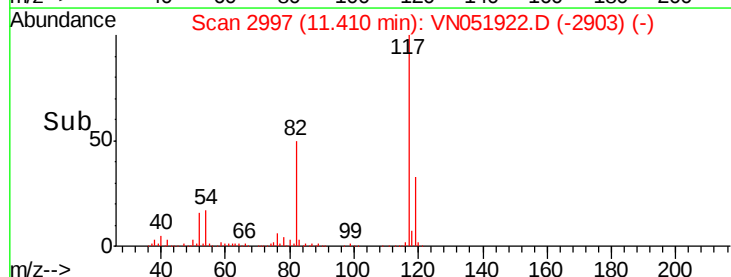
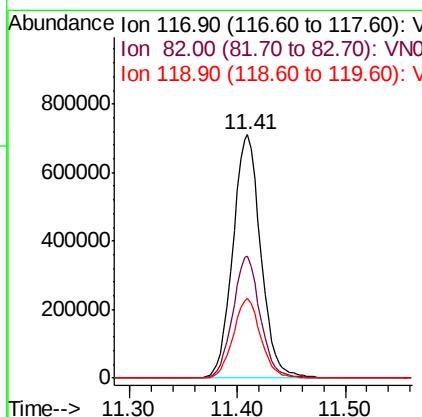
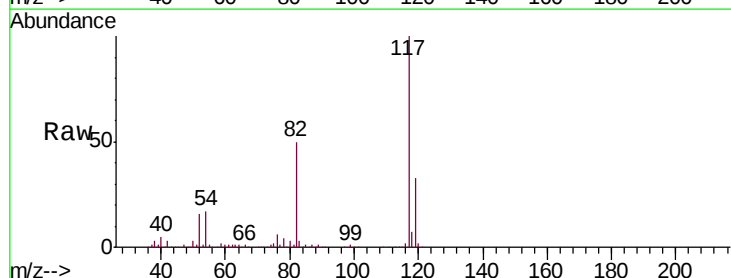
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#03

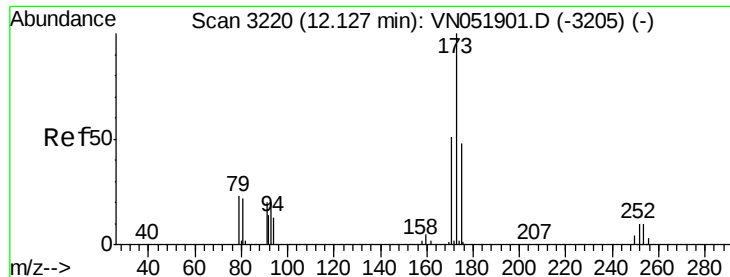
Tgt Ion: 95 Resp: 565211
Ion Ratio Lower Upper
95 100
174 96.7 0.0 195.0
176 94.3 0.0 191.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051922.D
Acq: 18 Oct 2018 17:48

Tgt Ion: 117 Resp: 1281570
Ion Ratio Lower Upper
117 100
82 50.0 38.9 58.3
119 32.6 25.9 38.9





#71

Bromoform

Concen: 3.906 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051922.D

Acq: 18 Oct 2018 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#03

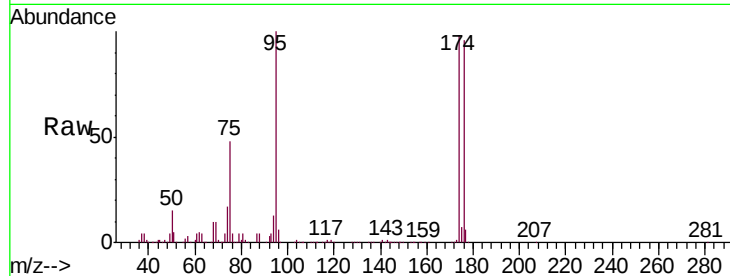
Tgt Ion:173 Resp: 5153

Ion Ratio Lower Upper

173 100

175 638.8 24.0 72.0#

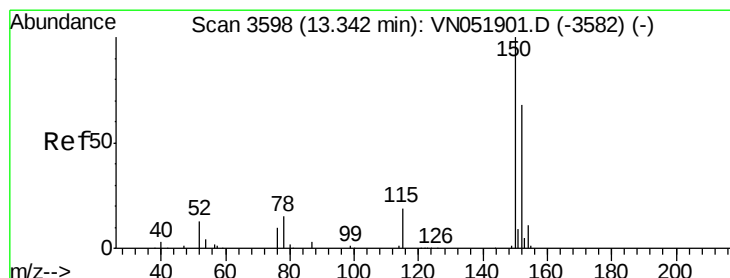
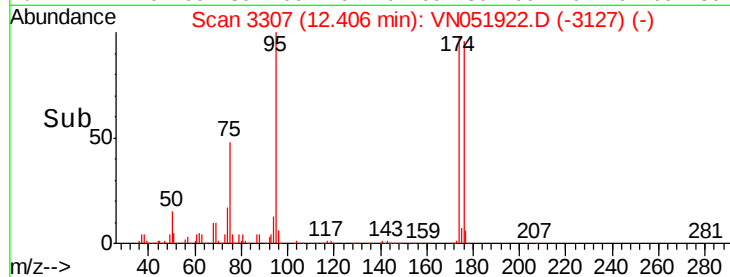
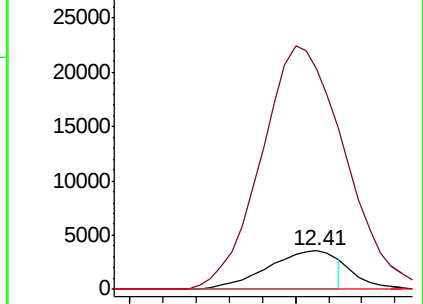
254 0.0 0.2 0.2#



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: VN051922.D

Acq: 18 Oct 2018 17:48

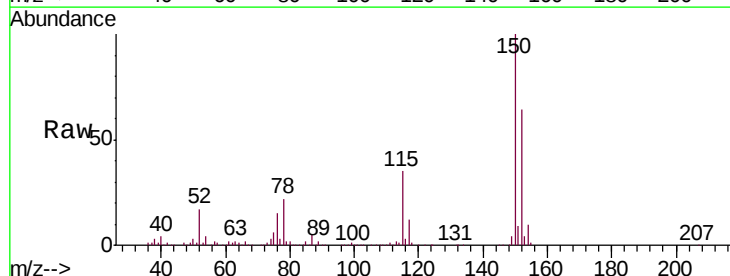
Tgt Ion:152 Resp: 450312

Ion Ratio Lower Upper

152 100

115 54.2 26.7 80.1

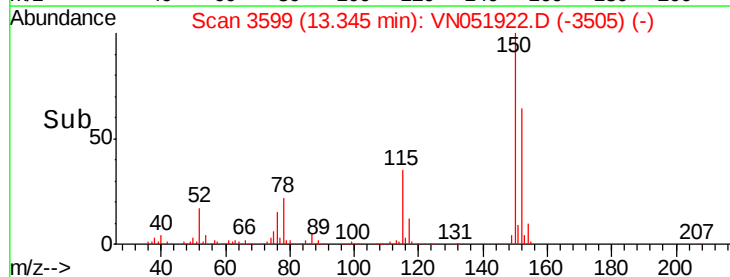
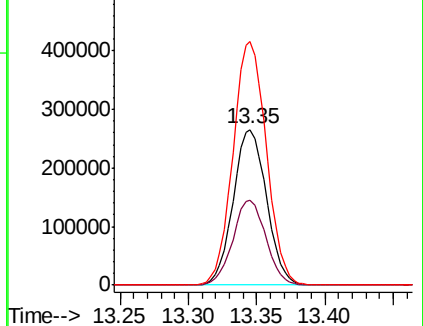
150 156.8 0.0 346.4

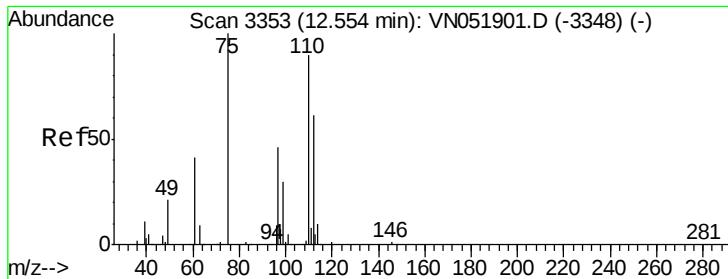


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 50.998 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051922.D

Acq: 18 Oct 2018 17:48

Instrument :

MSVOA_N

ClientSampleId :

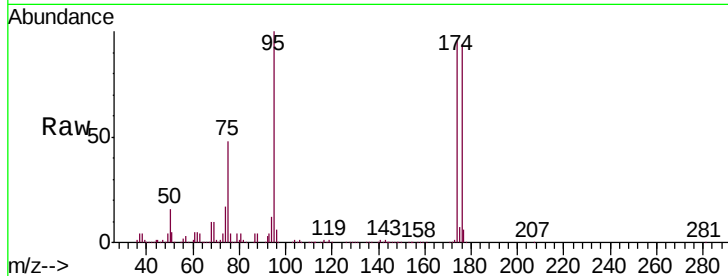
PB113908ZHE#03

Tgt Ion: 75 Resp: 279129

Ion Ratio Lower Upper

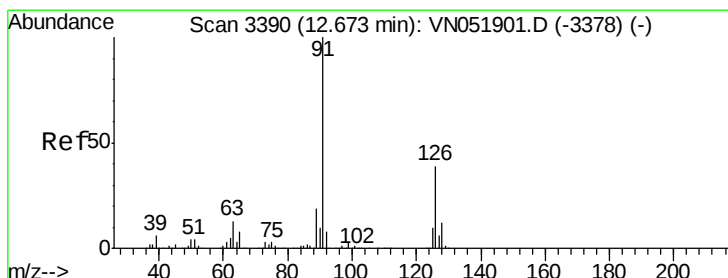
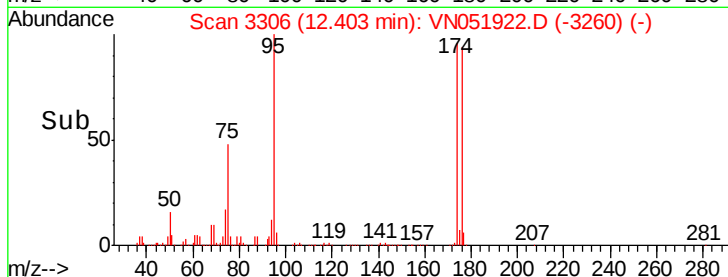
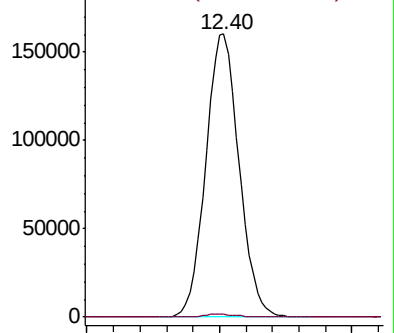
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051922.D

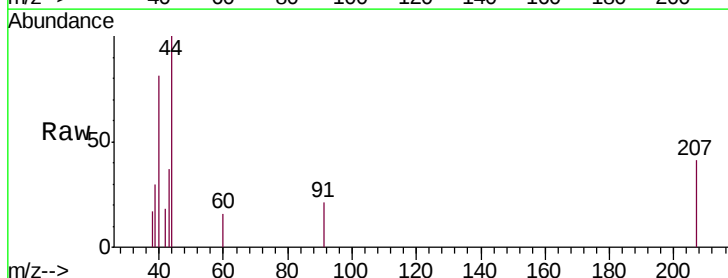
Acq: 18 Oct 2018 17:48

Tgt Ion: 91 Resp: 159

Ion Ratio Lower Upper

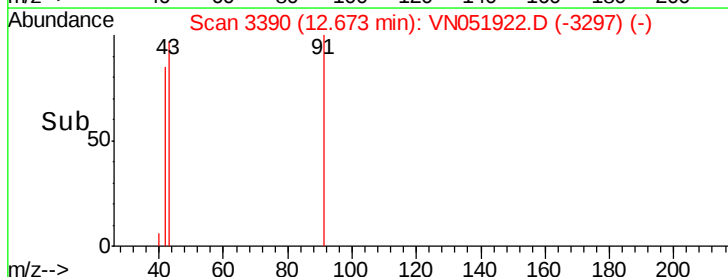
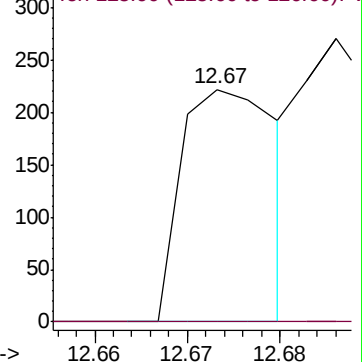
91 100

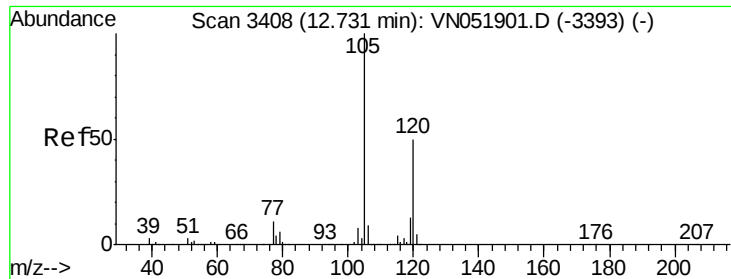
126 0.0 19.6 58.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

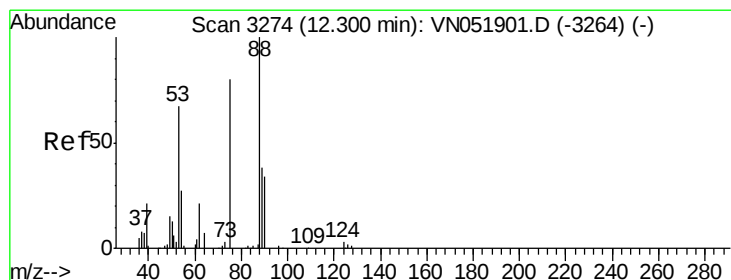
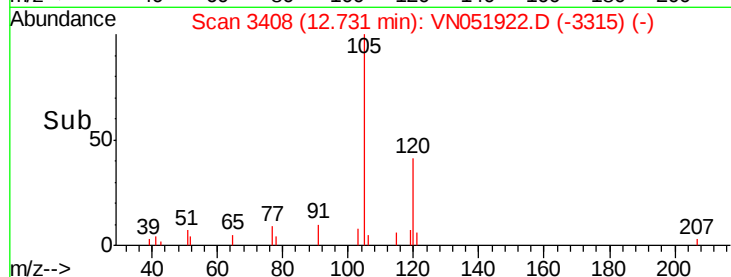
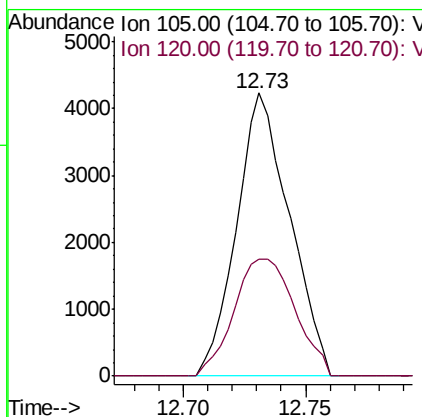
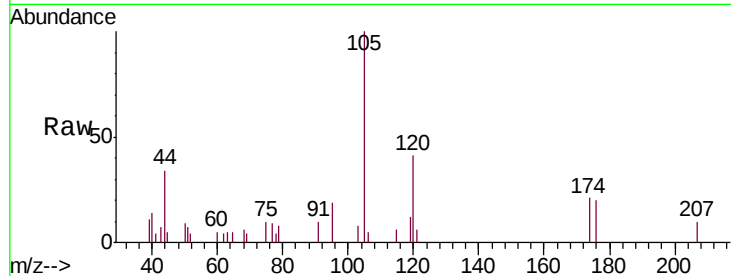




#80
 1,3,5-Trimethylbenzene
 Concen: 0.226 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

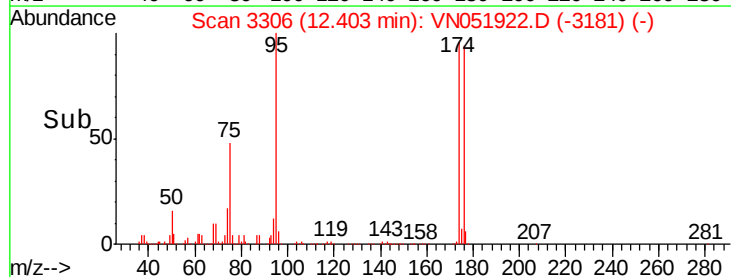
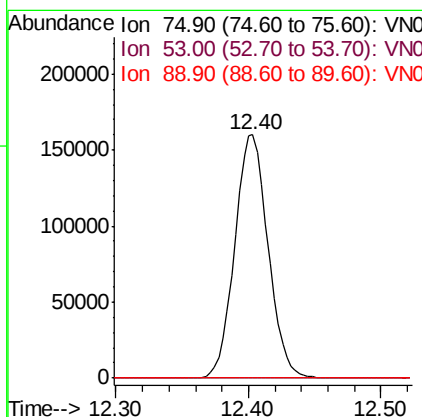
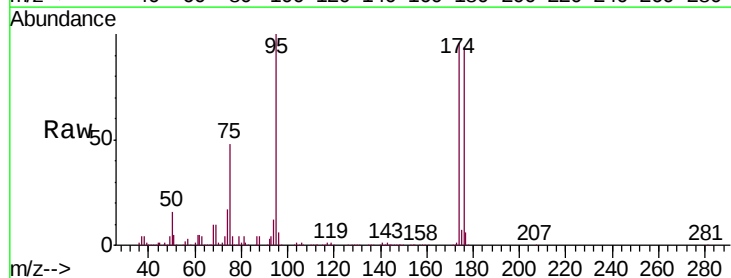
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#03

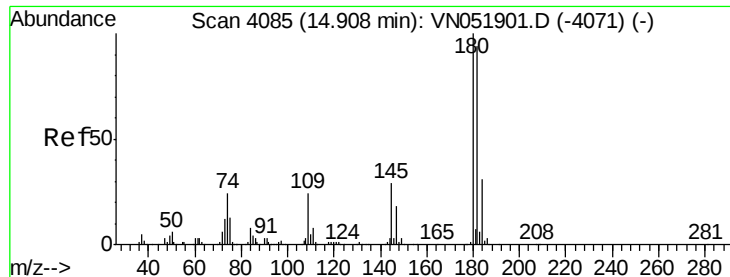
Tgt Ion: 105 Resp: 6375
 Ion Ratio Lower Upper
 105 100
 120 47.9 25.3 75.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 167.588 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

Tgt Ion: 75 Resp: 279129
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.5 102.7#
 89 0.0 39.0 58.6#

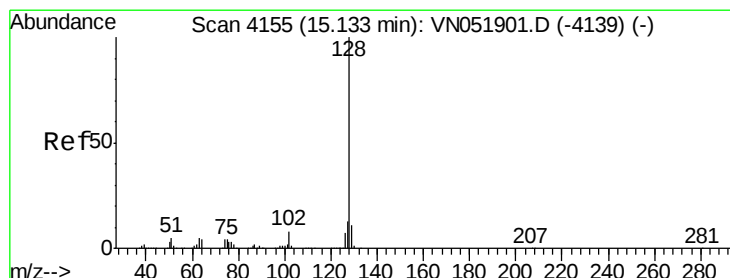
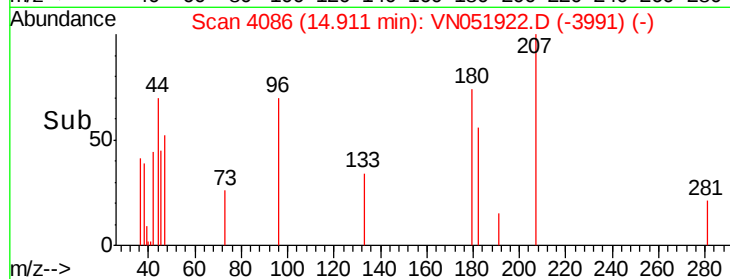
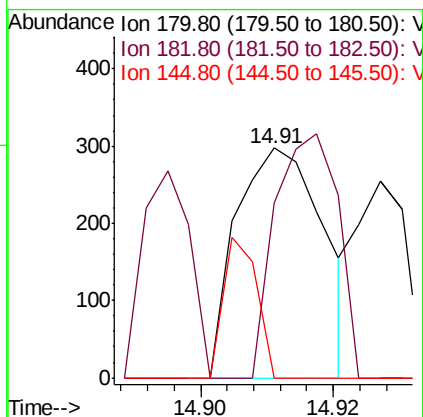
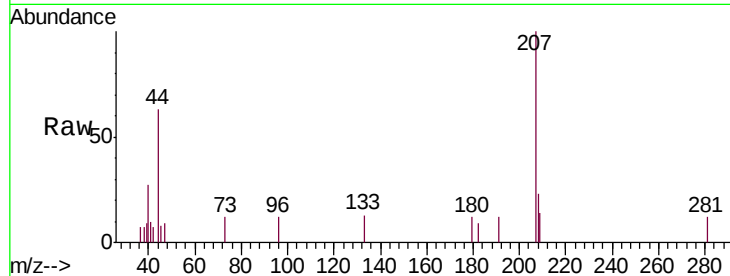




#93
 1,2,4-Trichlorobenzene
 Concen: 4.095 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

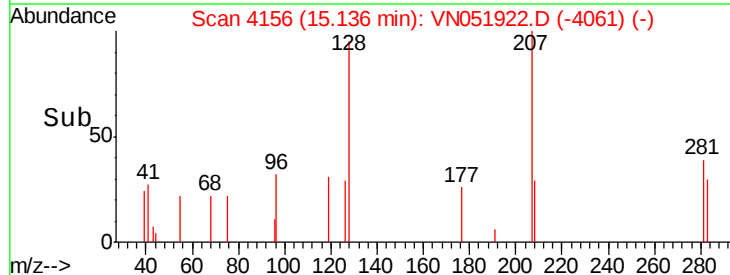
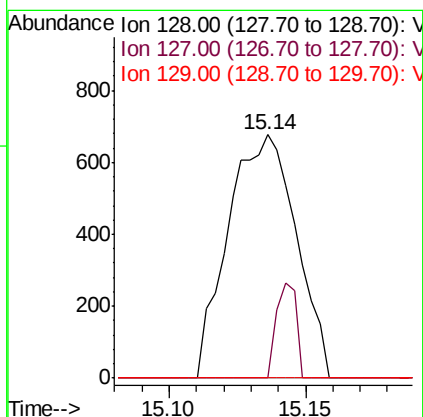
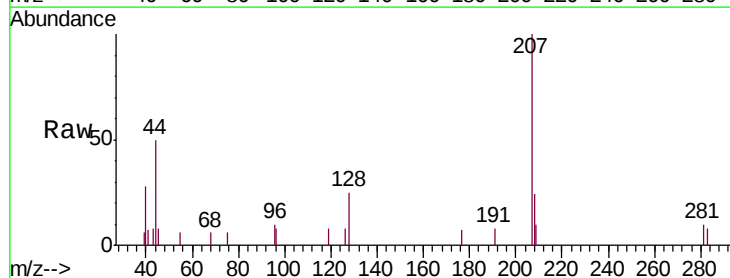
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#03

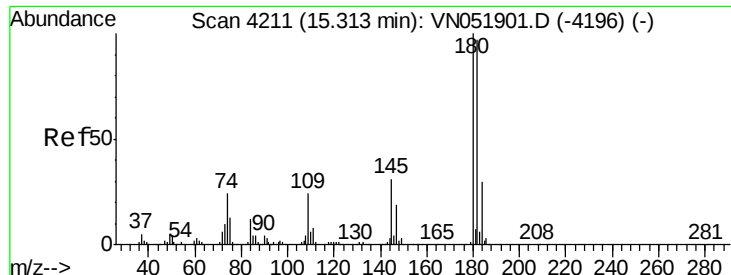
Tgt Ion:180 Resp: 271
 Ion Ratio Lower Upper
 180 100
 182 76.8 47.3 141.9
 145 23.6 14.5 43.5



#95
 Naphthalene
 Concen: 4.134 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

Tgt Ion:128 Resp: 1171
 Ion Ratio Lower Upper
 128 100
 127 11.5 10.2 15.2
 129 0.0 8.5 12.7#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.945 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. -0.01 min
 Lab File: VN051922.D
 Acq: 18 Oct 2018 17:48

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.8#
145	0.0	15.2	45.6#

