

Data File : VN051926.D
Acq On : 18 Oct 2018 19:35
Operator : MD\SY
Sample : PB113908ZHE#07
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#07

Quant Time: Oct 19 06:51:12 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	1005961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1475348	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1303542	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	456616	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	542848	58.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.42%	
35) Dibromofluoromethane	7.59	113	546572	58.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.58%	
50) Toluene-d8	10.09	98	2018266	59.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.26%	
62) 4-Bromofluorobenzene	12.40	95	577903	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	

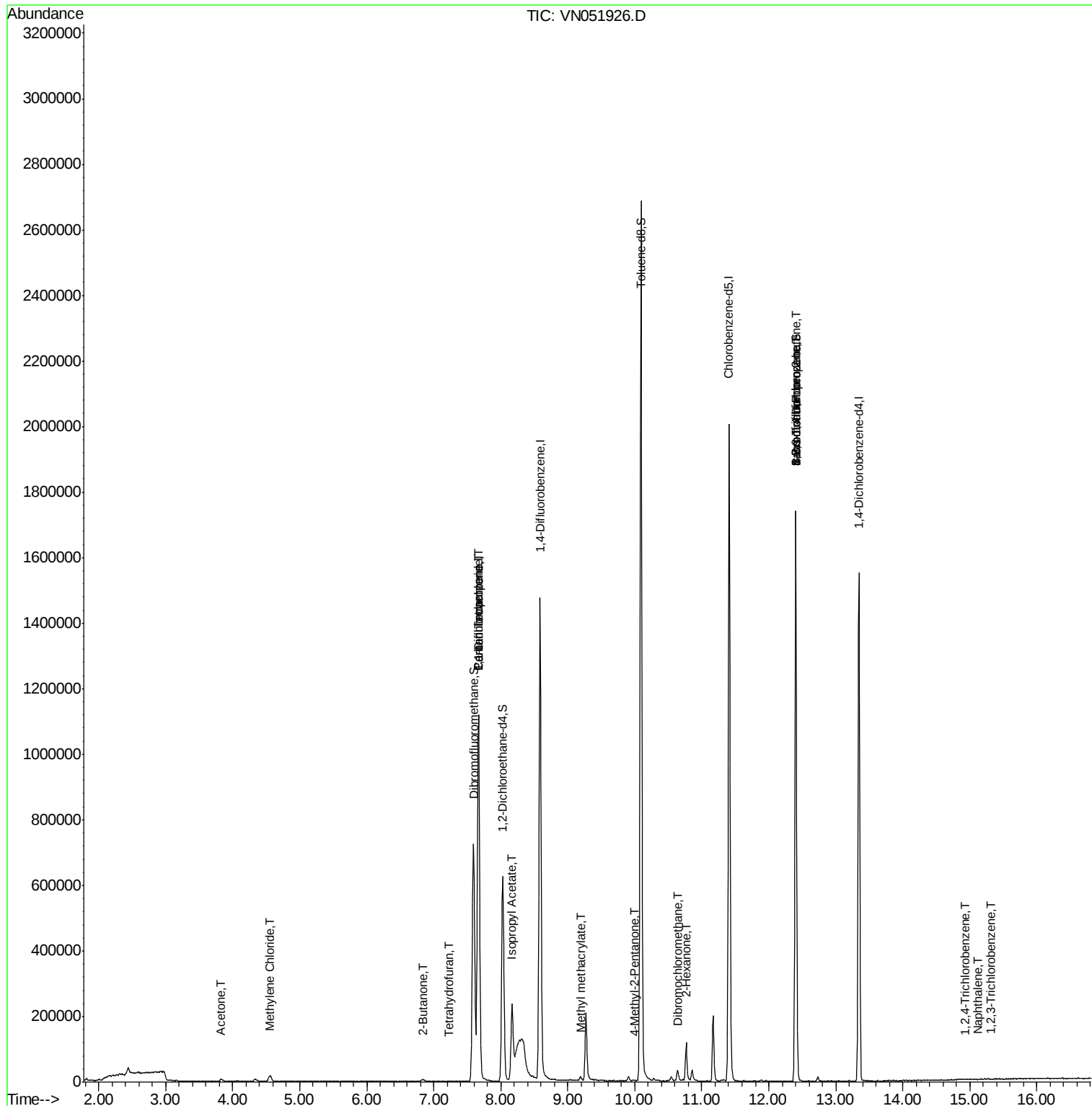
Target Compounds			Qvalue			
5) Bromomethane	2.57	94	3213	Below Cal	#	58
13) Acrolein	3.64	56	110	Below Cal	#	14
16) Acetone	3.83	43	10679	6.467	ug/l	89
18) Methyl Acetate	4.33	43	4648	Below Cal		91
20) Methylene Chloride	4.55	84	14809	1.764	ug/l	91
25) 2-Butanone	6.85	43	3000	1.271	ug/l #	83
29) Tetrahydrofuran	7.22	42	538	0.373	ug/l #	51
31) Cyclohexane	7.67	56	16675	Below Cal	#	31
36) 1,1-Dichloropropene	7.66	75	61924	5.408	ug/l #	48
37) Ethyl Acetate	6.91	43	205	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	89418	6.631	ug/l #	16
43) Isopropyl Acetate	8.17	43	284233	26.700	ug/l #	85
48) Methyl methacrylate	9.18	41	4534	0.981	ug/l #	12
51) 4-Methyl-2-Pentanone	9.99	43	1384	0.260	ug/l #	33
59) 2-Hexanone	10.76	43	14095	3.943	ug/l #	54
60) Dibromochloromethane	10.63	129	101	2.060	ug/l #	11
71) Bromoform	12.40	173	4861	3.857	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	288029	51.898	ug/l #	100
79) 2-Chlorotoluene	12.73	91	456	Below Cal	#	36
81) trans-1,4-Dichloro-2-buten	12.40	75	288029	170.541	ug/l #	14
93) 1,2,4-Trichlorobenzene	14.91	180	30	4.065	ug/l #	1
95) Naphthalene	15.13	128	502	4.092	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.31	180	166	2.935	ug/l #	12

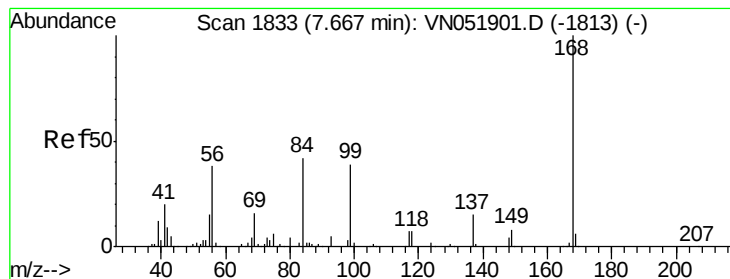
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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Instrument :

MSVOA_N

ClientSampleId :

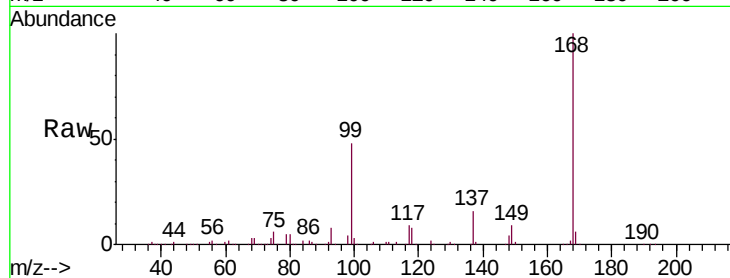
PB113908ZHE#07

Tgt Ion:168 Resp: 1005961

Ion Ratio Lower Upper

168 100

99 47.7 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VN051901.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051901.D (-1813) (-)

7.67

400000

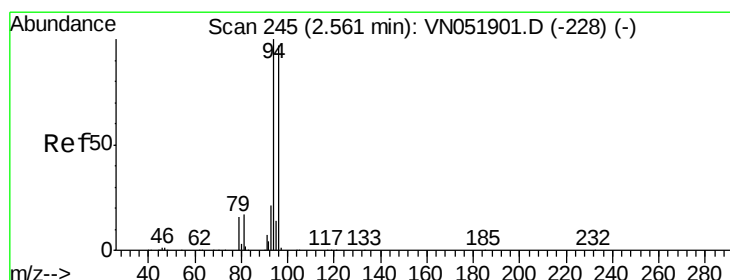
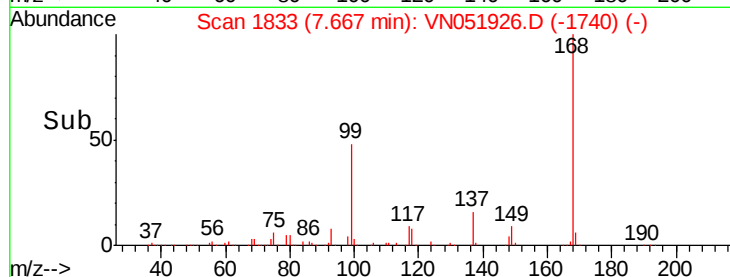
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN051926.D

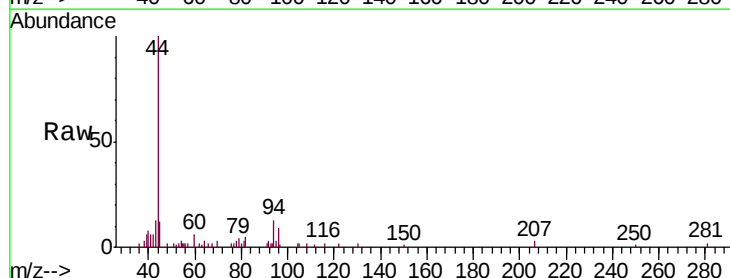
Acq: 18 Oct 2018 19:35

Tgt Ion: 94 Resp: 3213

Ion Ratio Lower Upper

94 100

96 55.3 77.5 116.3#



Abundance Ion 93.90 (93.60 to 94.60): VN051901.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051901.D (-228) (-)

2.57

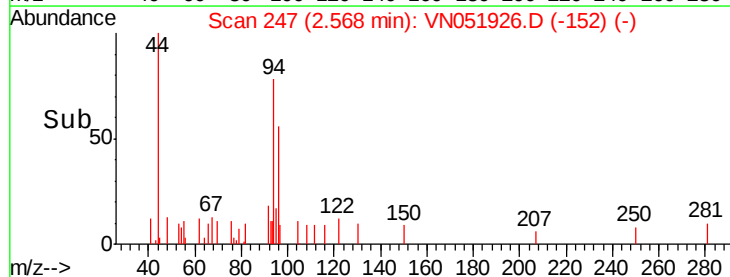
1500

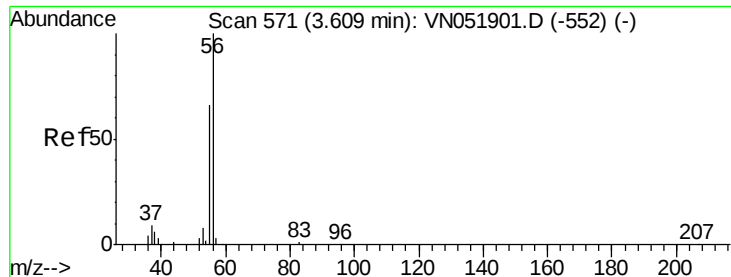
1000

500

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.64 min Scan# 579

Delta R.T. 0.03 min

Lab File: VN051926.D

Acq: 18 Oct 2018 19:35

Instrument :

MSVOA_N

ClientSampleId :

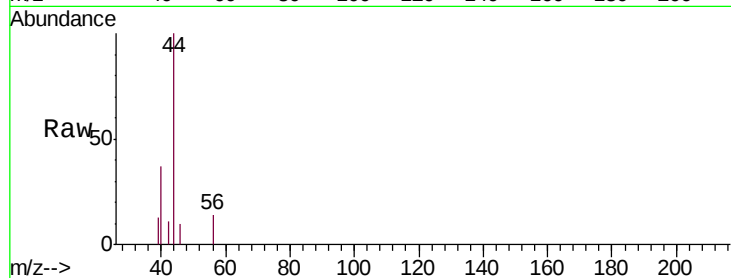
PB113908ZHE#07

Tgt Ion: 56 Resp: 110

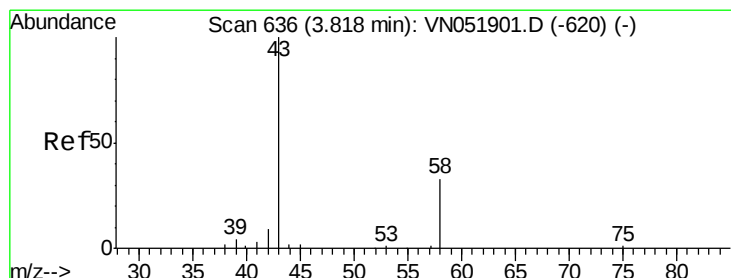
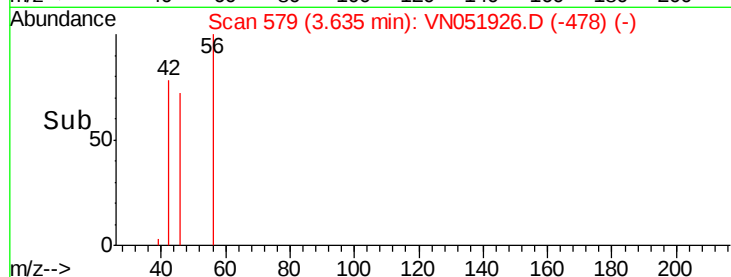
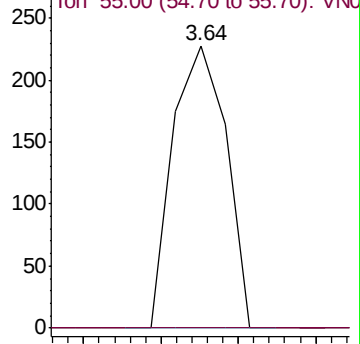
Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN051901.D (-552) (-)



#16

Acetone

Concen: 6.467 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051926.D

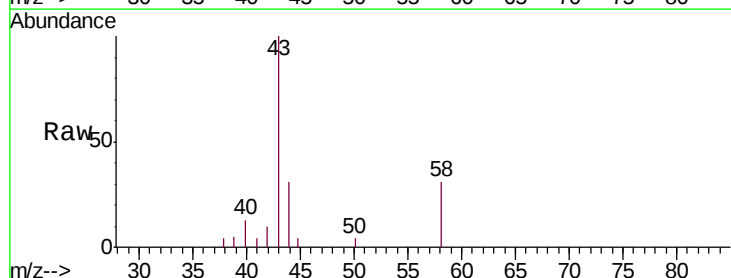
Acq: 18 Oct 2018 19:35

Tgt Ion: 43 Resp: 10679

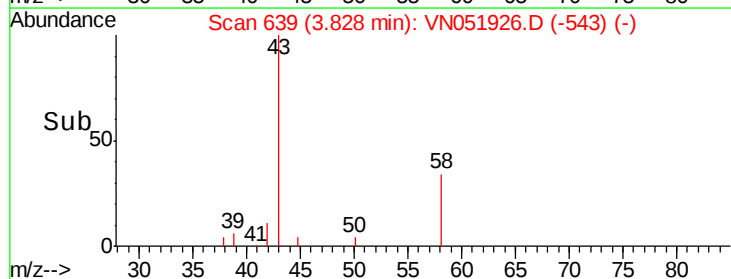
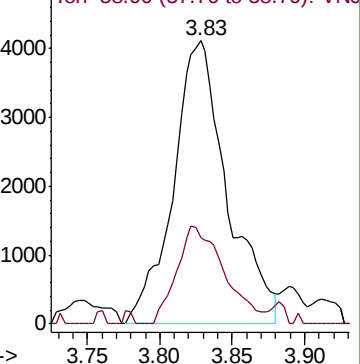
Ion Ratio Lower Upper

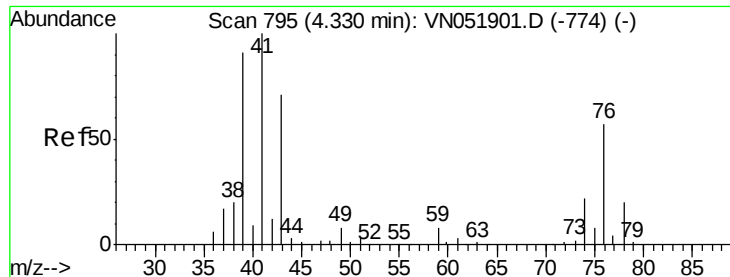
43 100

58 26.0 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-620) (-)

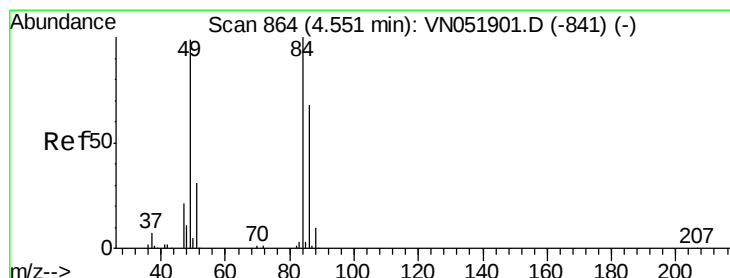
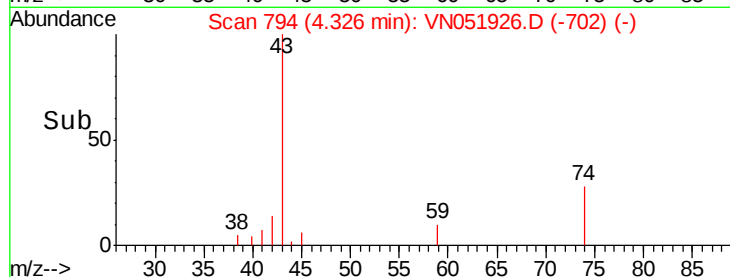
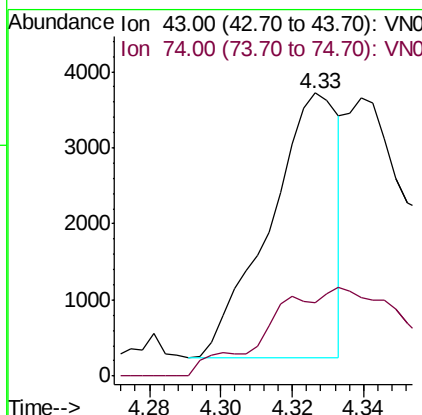
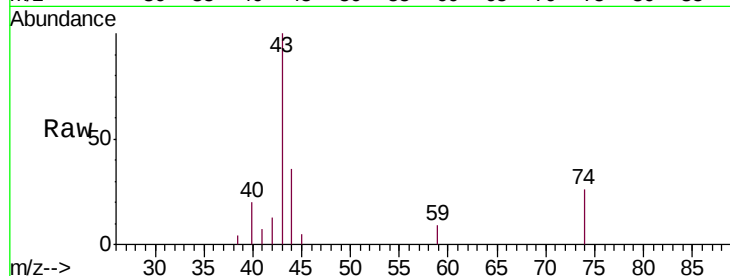




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051926.D
Acq: 18 Oct 2018 19:35

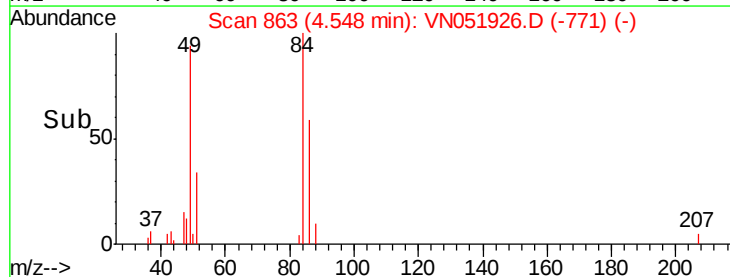
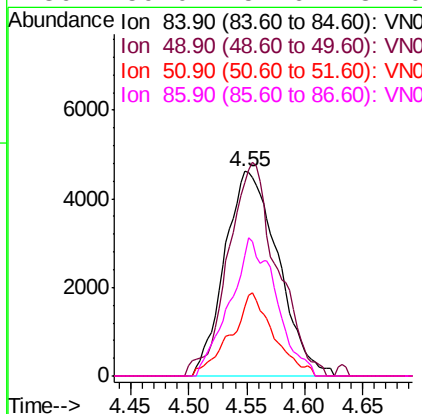
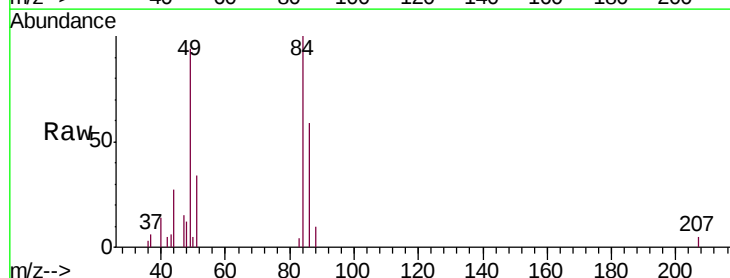
Instrument :
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ClientSampleId :
PB113908ZHE#07

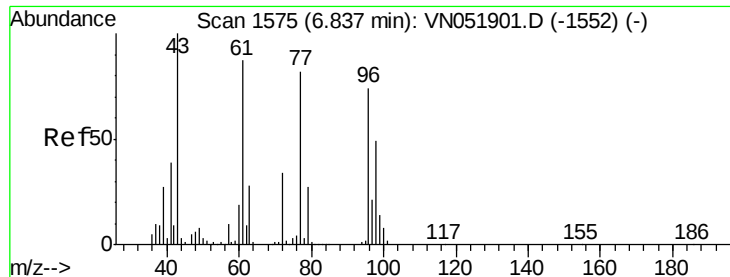
Tgt Ion: 43 Resp: 4648
Ion Ratio Lower Upper
43 100
74 26.4 24.9 37.3



#20
Methylene Chloride
Concen: 1.764 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN051926.D
Acq: 18 Oct 2018 19:35

Tgt Ion: 84 Resp: 14809
Ion Ratio Lower Upper
84 100
49 89.8 79.0 118.4
51 34.0 24.9 37.3
86 59.0 54.6 82.0

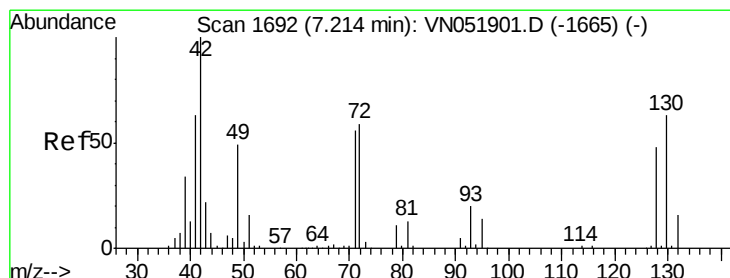
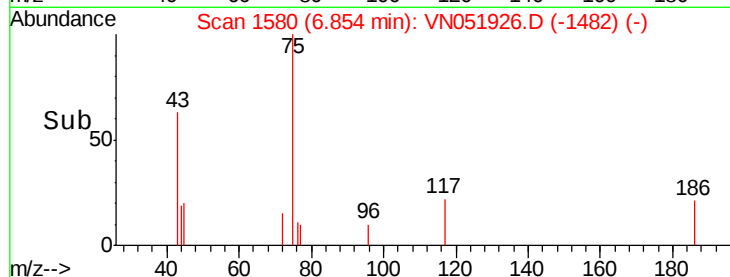
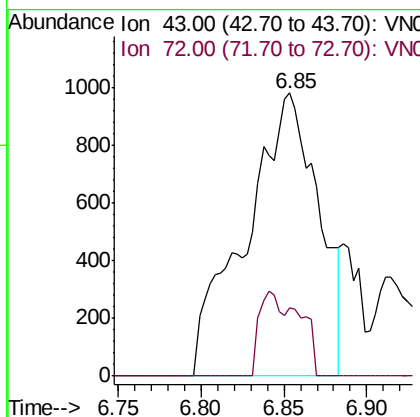
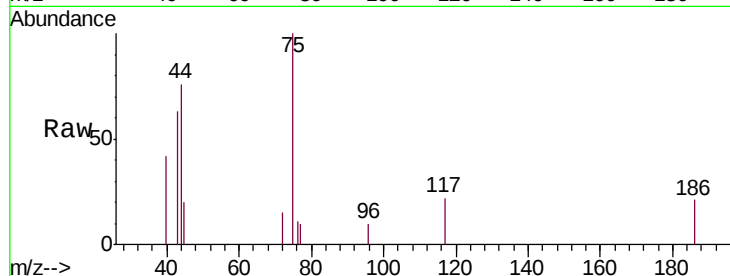




#25
 2-Butanone
 Concen: 1.271 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

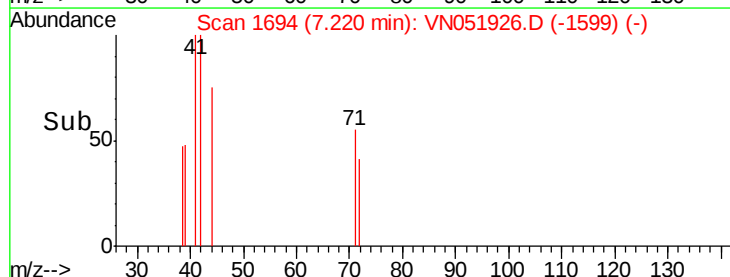
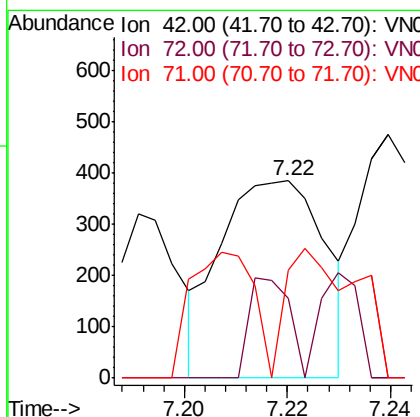
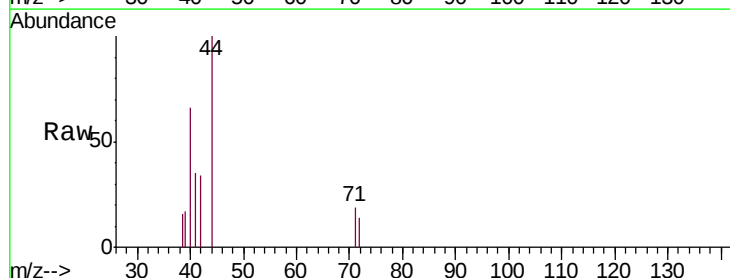
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#07

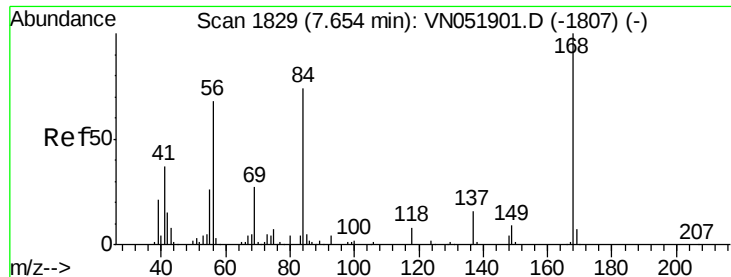
Tgt Ion: 43 Resp: 3000
 Ion Ratio Lower Upper
 43 100
 72 24.3 27.0 40.6#



#29
 Tetrahydrofuran
 Concen: 0.373 ug/l
 RT: 7.22 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Tgt Ion: 42 Resp: 538
 Ion Ratio Lower Upper
 42 100
 72 0.0 47.7 71.5#
 71 44.4 45.4 68.0#

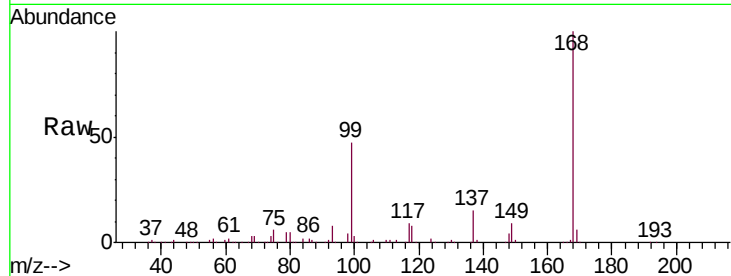




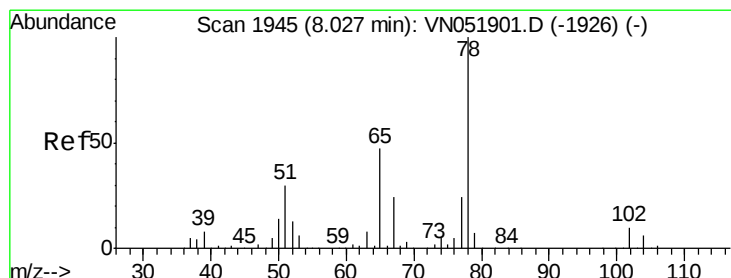
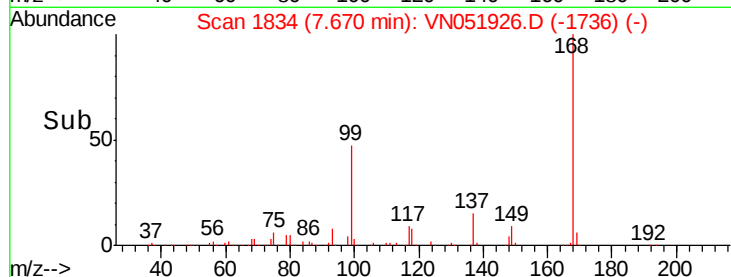
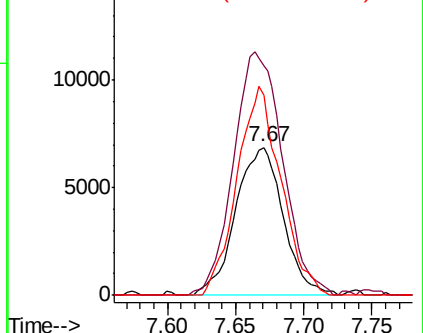
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN051926.D
Acq: 18 Oct 2018 19:35

Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#07

Tgt Ion: 56 Resp: 16675
Ion Ratio Lower Upper
56 100
69 155.1 31.2 46.8#
84 135.1 86.6 130.0#

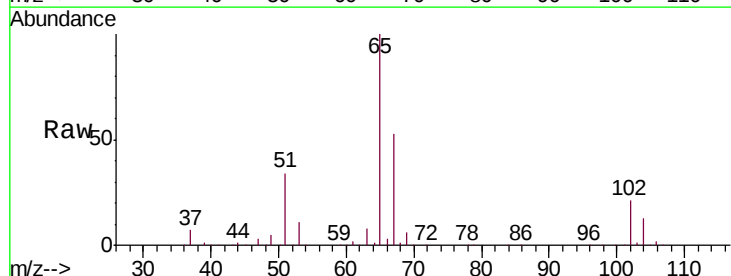


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

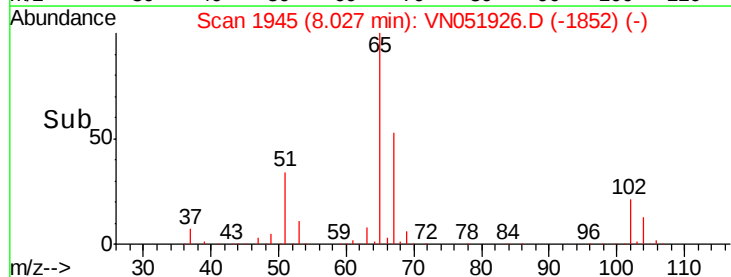
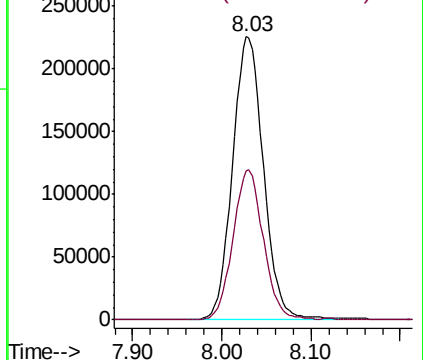


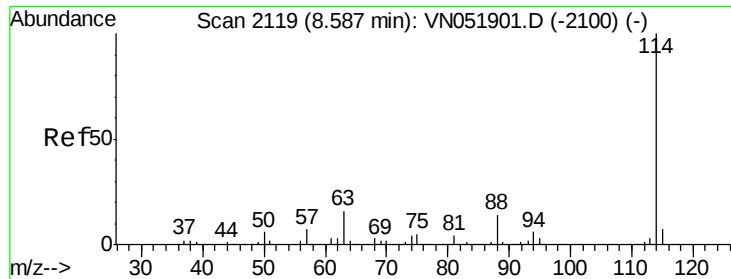
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN051926.D
Acq: 18 Oct 2018 19:35

Tgt Ion: 65 Resp: 542848
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.0



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

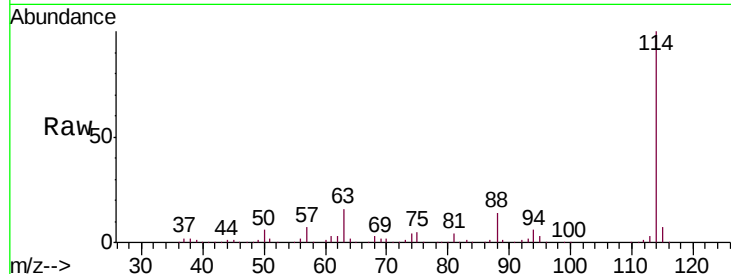




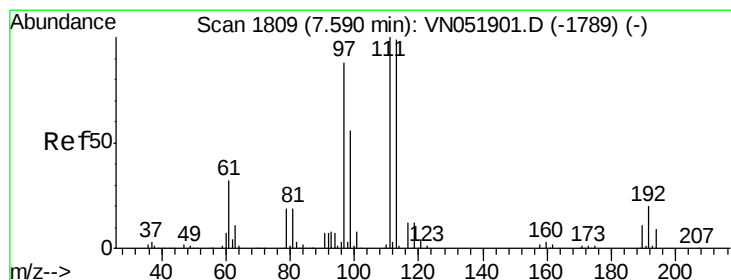
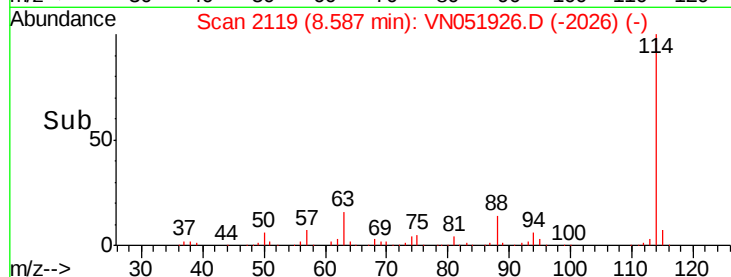
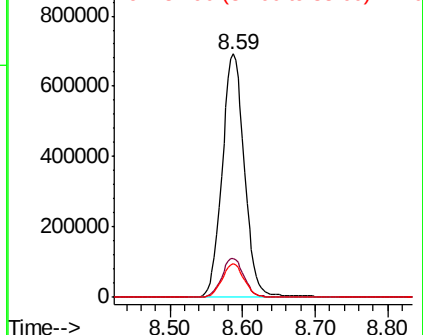
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Instrument :
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 PB113908ZHE#07

Tgt Ion:114 Resp: 1475348
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 31.8
 88 13.8 0.0 28.0

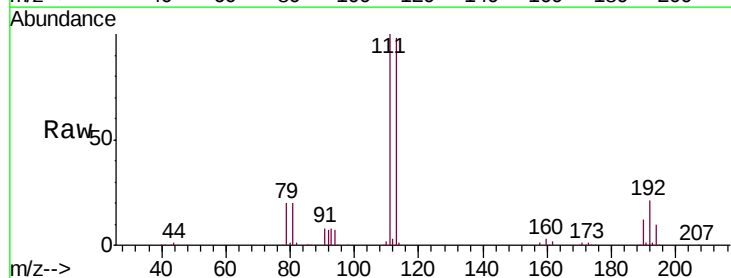


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

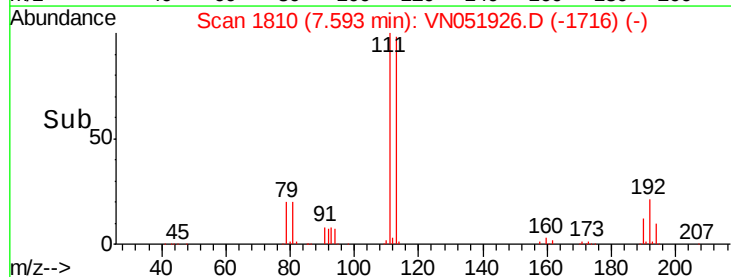
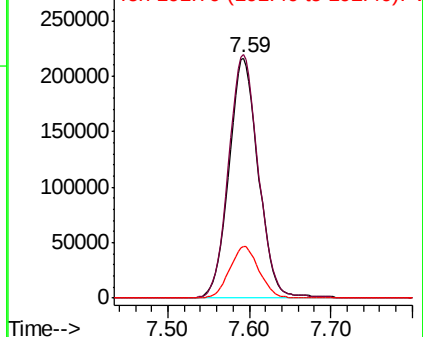


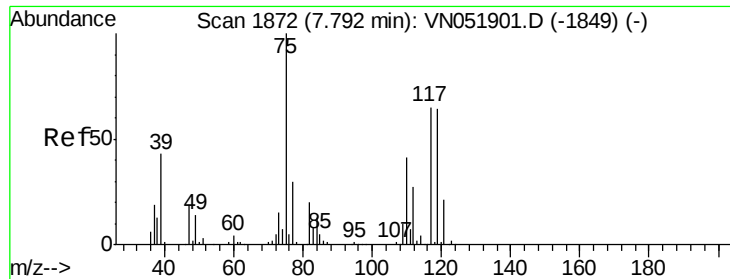
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Tgt Ion:113 Resp: 546572
 Ion Ratio Lower Upper
 113 100
 111 103.0 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

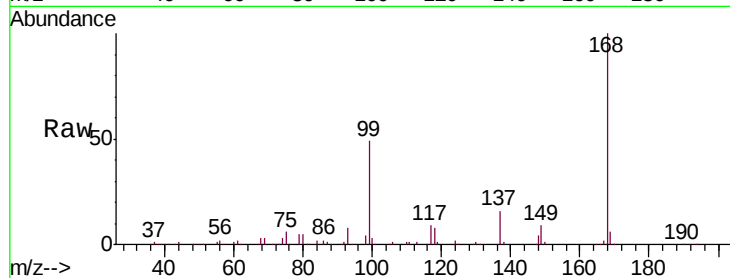




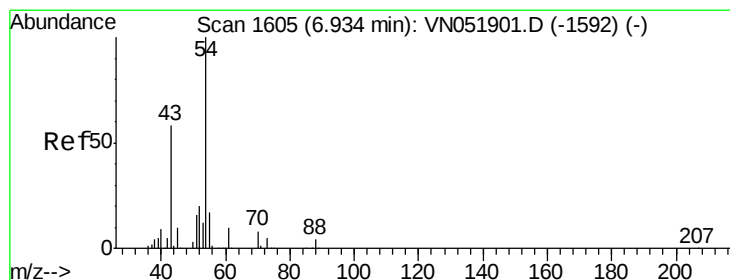
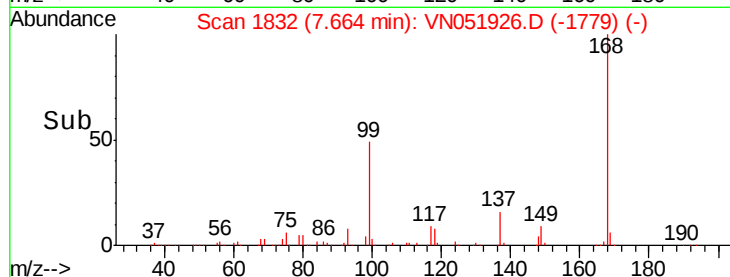
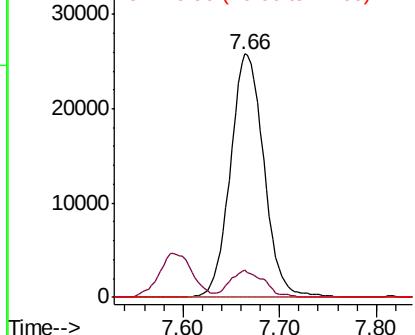
#36
 1,1-Dichloropropene
 Concen: 5.408 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#07

Tgt Ion: 75 Resp: 61924
 Ion Ratio Lower Upper
 75 100
 110 11.4 21.0 63.0#
 77 0.0 24.9 37.3#

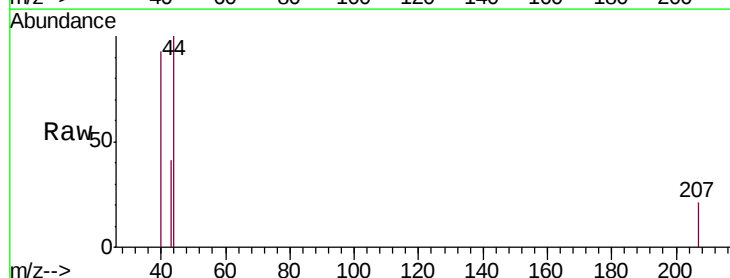


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

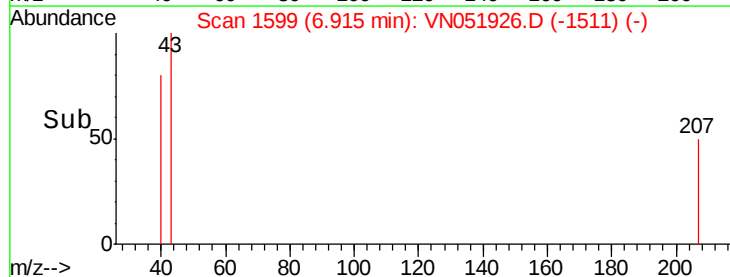
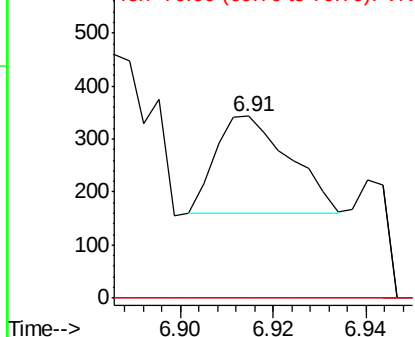


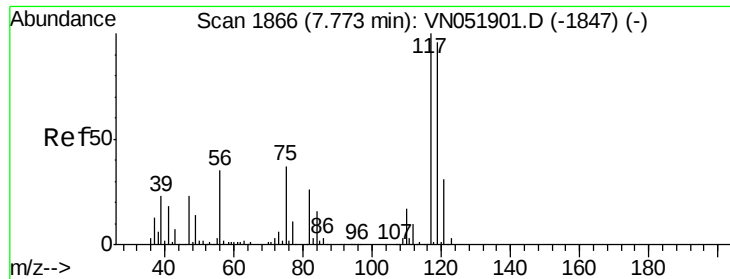
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.91 min Scan# 1599
 Delta R.T. -0.02 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Tgt Ion: 43 Resp: 205
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.0 19.6#
 70 0.0 10.4 15.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

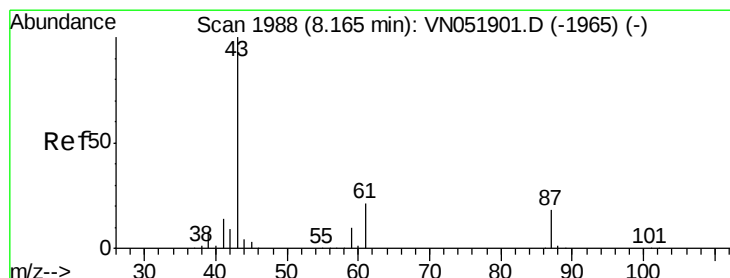
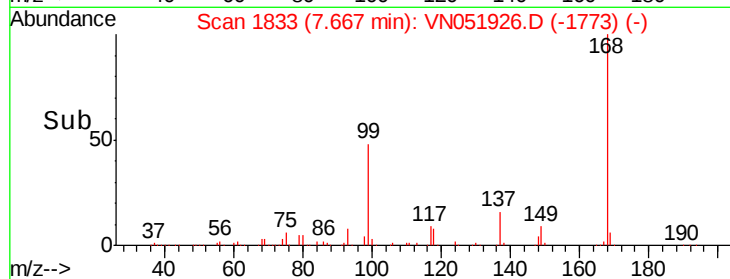
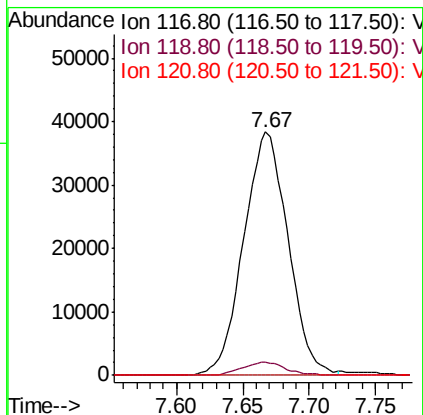
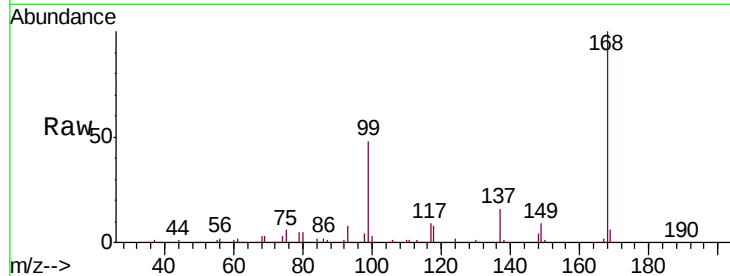




#38
Carbon Tetrachloride
Concen: 6.631 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051926.D
Acq: 18 Oct 2018 19:35

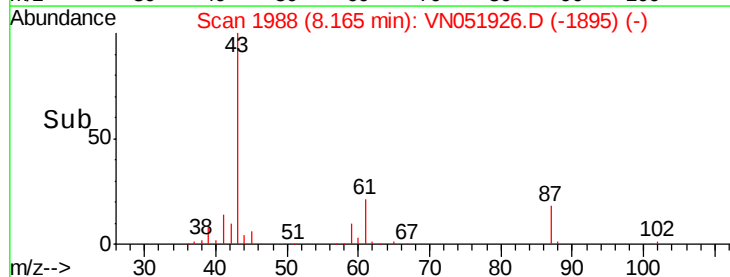
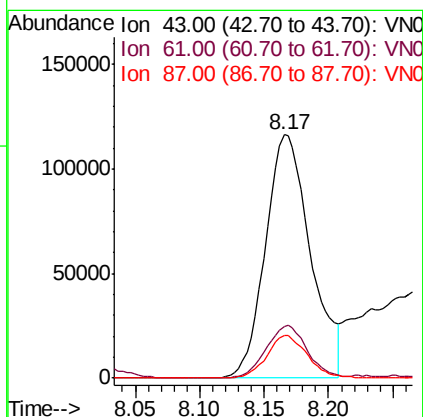
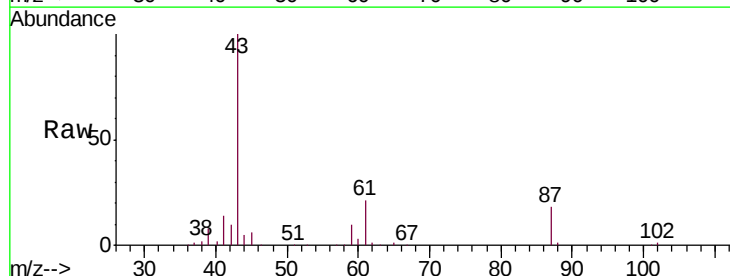
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#07

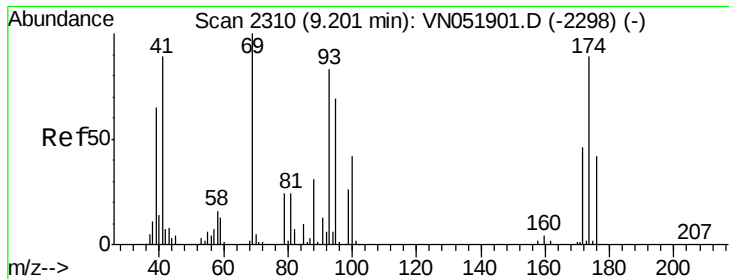
Tgt Ion:117 Resp: 89418
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.6#
121 0.0 25.1 37.7#



#43
Isopropyl Acetate
Concen: 26.700 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051926.D
Acq: 18 Oct 2018 19:35

Tgt Ion: 43 Resp: 284233
Ion Ratio Lower Upper
43 100
61 19.7 24.9 37.3#
87 15.8 14.6 22.0





#48

Methyl methacrylate

Concen: 0.981 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051926.D

Acq: 18 Oct 2018 19:35

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#07

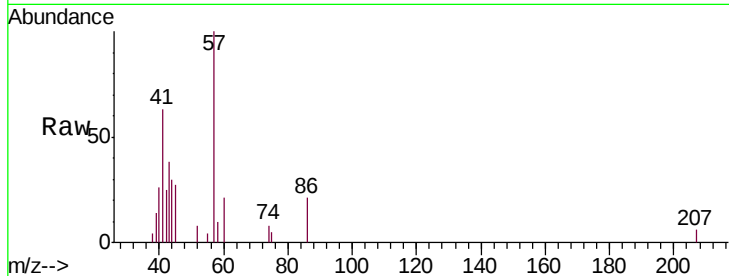
Tgt Ion: 41 Resp: 4534

Ion Ratio Lower Upper

41 100

69 0.0 90.2 135.2#

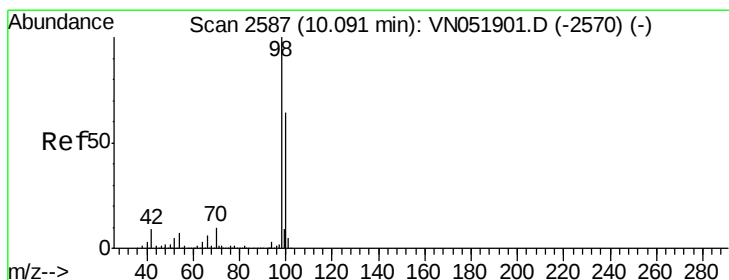
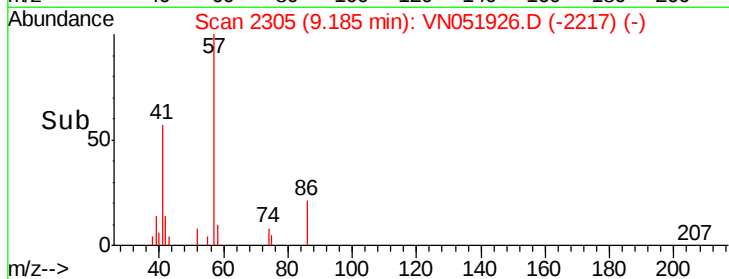
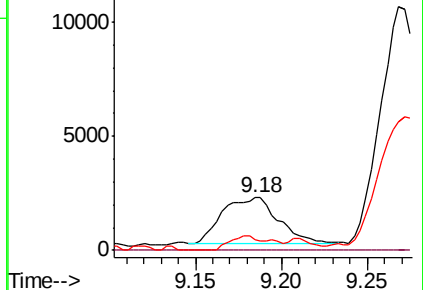
39 22.5 59.7 89.5#



Abundance Ion 41.00 (40.70 to 41.70): VN051901.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051901.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051901.D (-2298) (-)



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051926.D

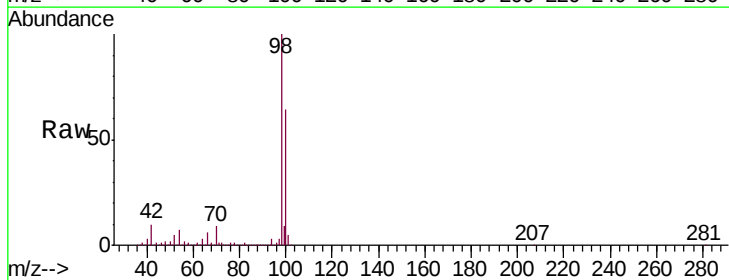
Acq: 18 Oct 2018 19:35

Tgt Ion: 98 Resp: 2018266

Ion Ratio Lower Upper

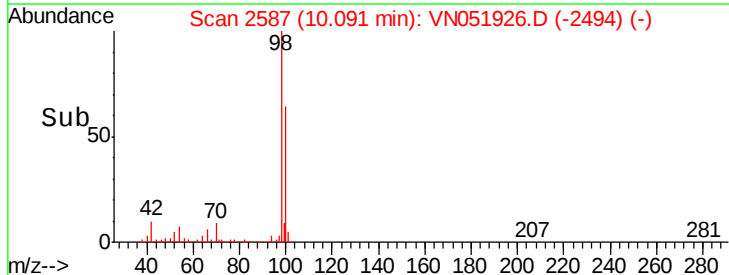
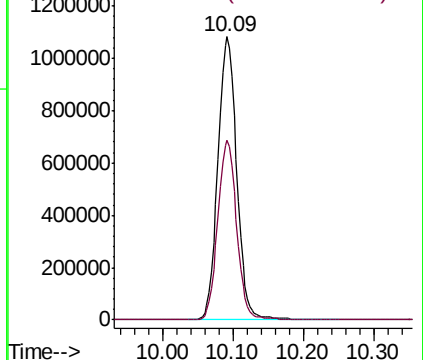
98 100

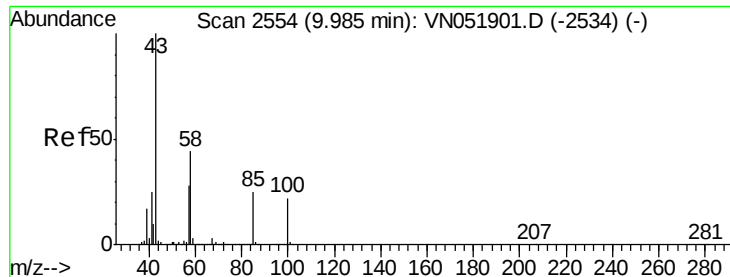
100 63.6 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VN051901.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051901.D (-2570) (-)

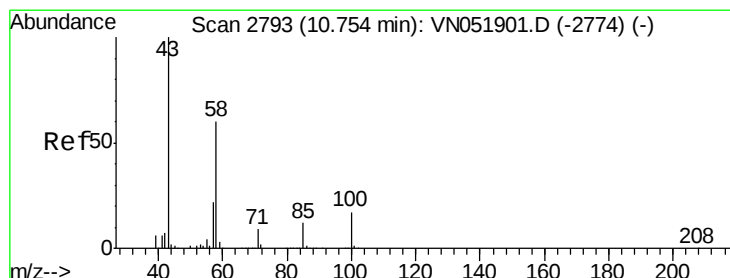
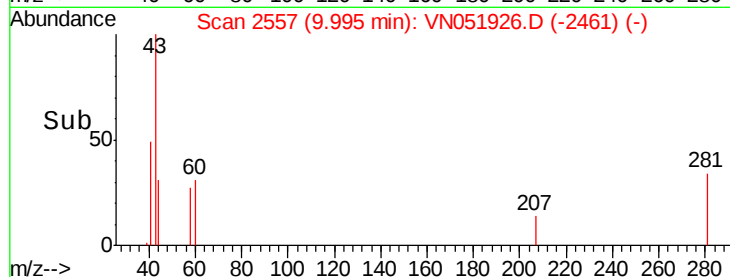
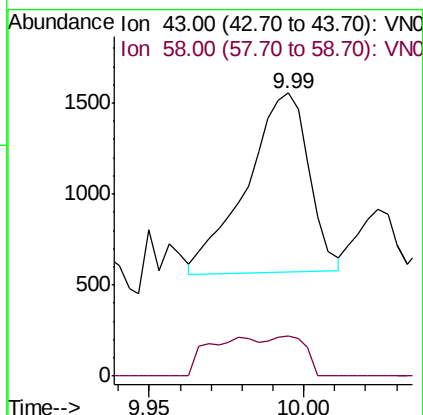
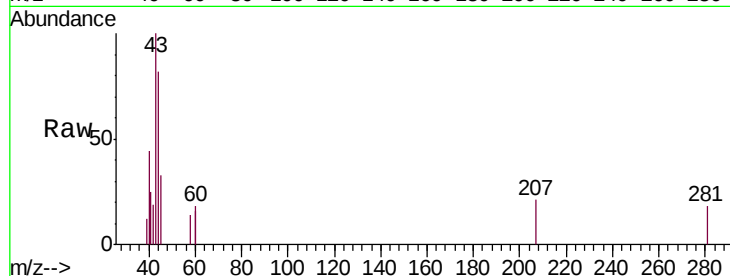




#51
 4-Methyl-2-Pentanone
 Concen: 0.260 ug/l
 RT: 9.99 min Scan# 2557
 Delta R.T. 0.01 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

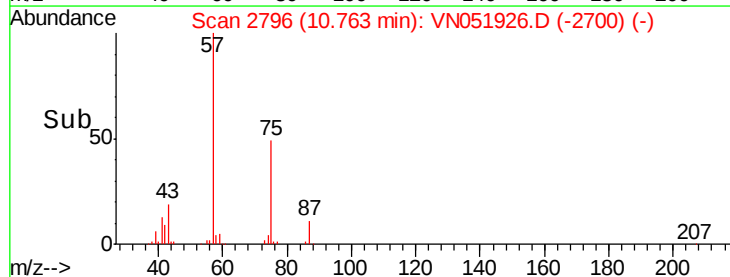
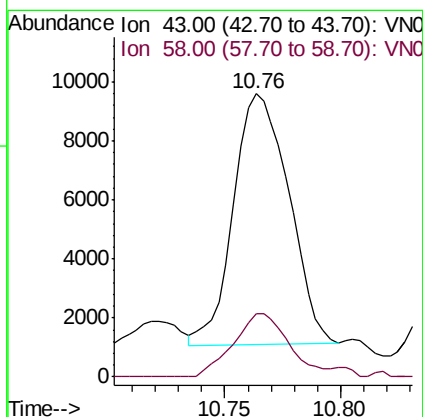
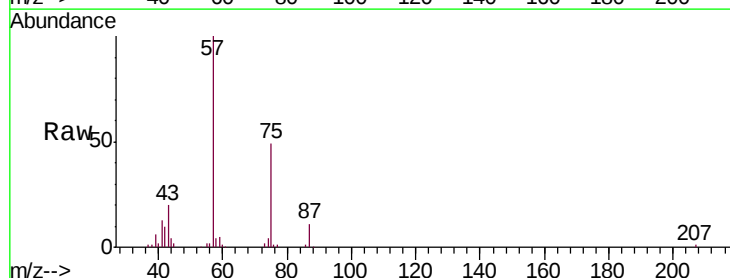
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#07

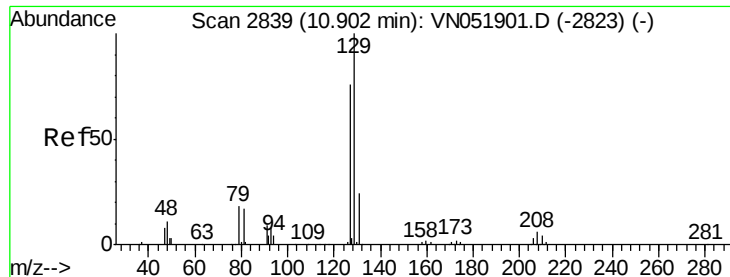
Tgt Ion: 43 Resp: 1384
 Ion Ratio Lower Upper
 43 100
 58 0.0 34.6 52.0#



#59
 2-Hexanone
 Concen: 3.943 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Tgt Ion: 43 Resp: 14095
 Ion Ratio Lower Upper
 43 100
 58 25.4 29.8 89.5#





#60

Dibromochloromethane

Concen: 2.060 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN051926.D

Acq: 18 Oct 2018 19:35

Instrument :

MSVOA_N

ClientSampleId :

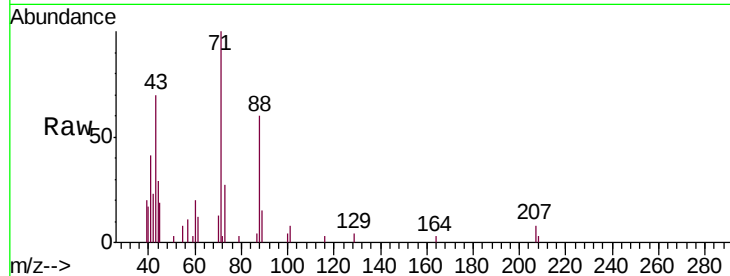
PB113908ZHE#07

Tgt Ion:129 Resp: 101

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

200

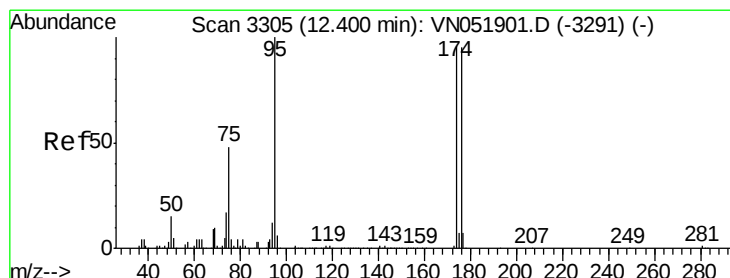
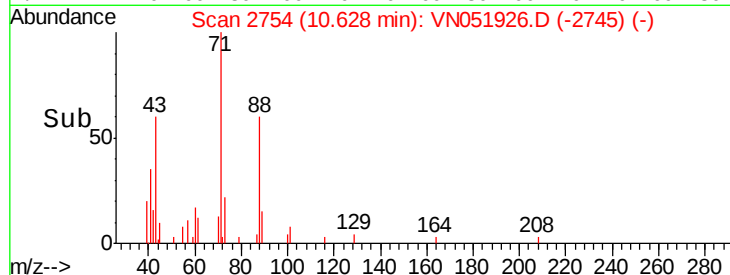
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051926.D

Acq: 18 Oct 2018 19:35

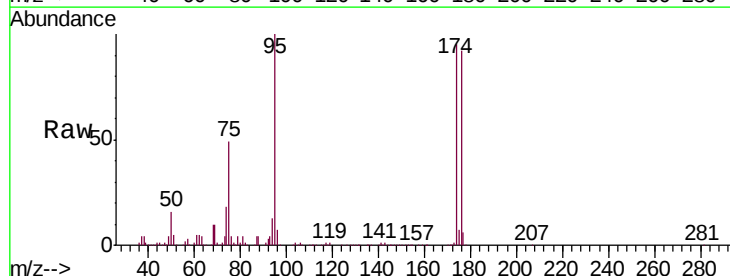
Tgt Ion: 95 Resp: 577903

Ion Ratio Lower Upper

95 100

174 95.5 0.0 195.0

176 91.6 0.0 191.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

400000

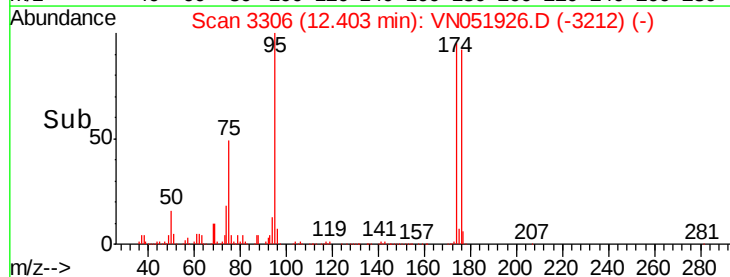
300000

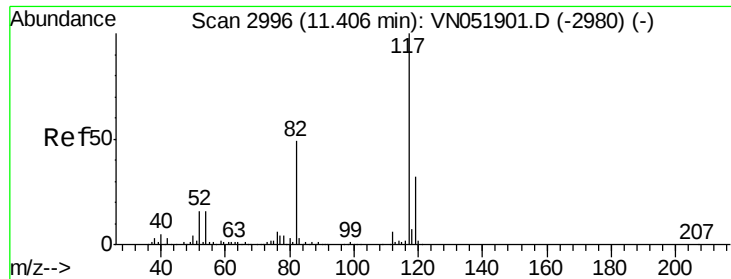
200000

100000

0

Time-->

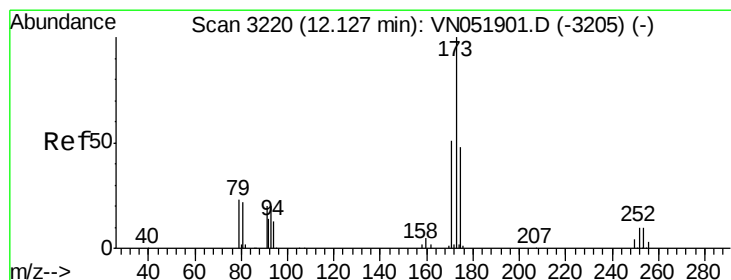
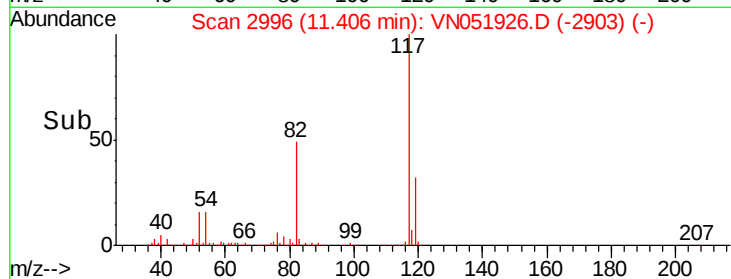
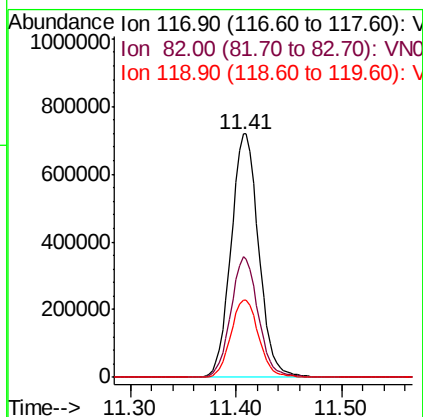
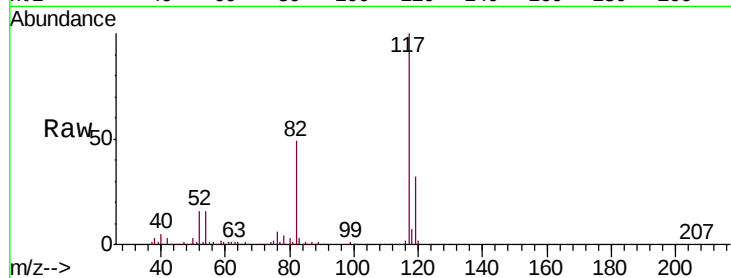




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051926.D
Acq: 18 Oct 2018 19:35

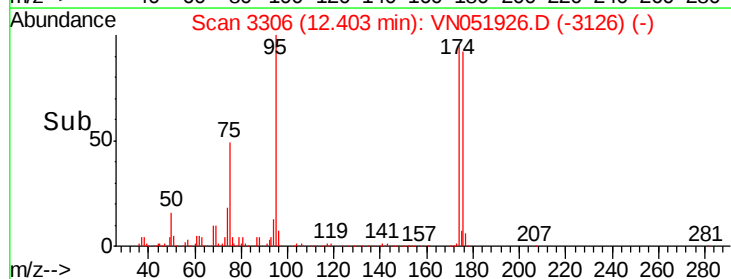
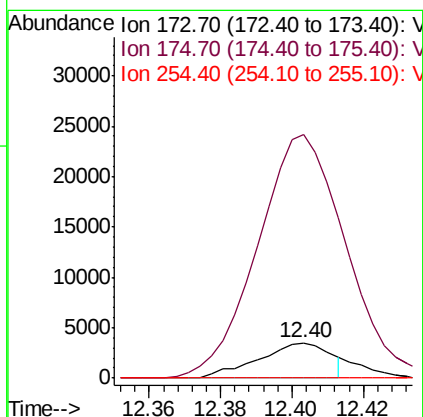
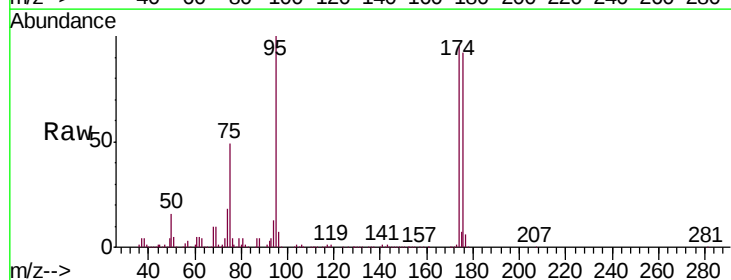
Instrument :
MSVOA_N
ClientSampleId :
PB113908ZHE#07

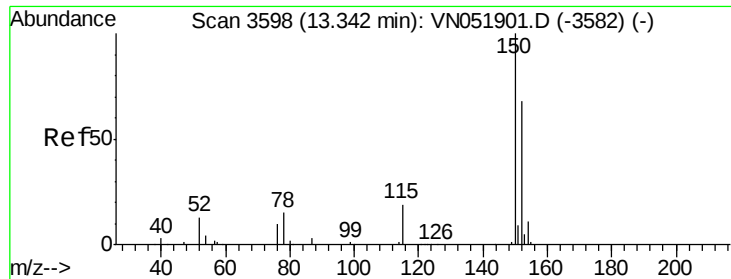
Tgt Ion:117 Resp: 1303542
Ion Ratio Lower Upper
117 100
82 49.4 38.9 58.3
119 31.9 25.9 38.9



#71
Bromoform
Concen: 3.857 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051926.D
Acq: 18 Oct 2018 19:35

Tgt Ion:173 Resp: 4861
Ion Ratio Lower Upper
173 100
175 715.0 24.0 72.0#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051926.D

Acq: 18 Oct 2018 19:35

Instrument :

MSVOA_N

ClientSampleId :

PB113908ZHE#07

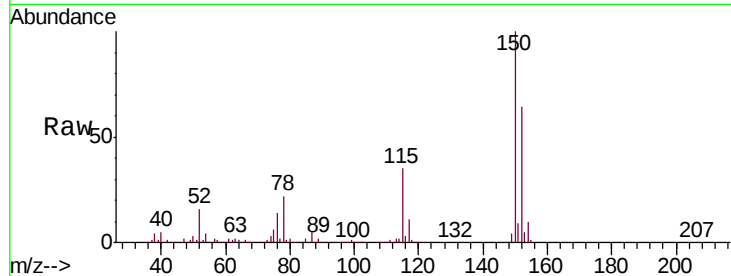
Tgt Ion:152 Resp: 456616

Ion Ratio Lower Upper

152 100

115 55.0 26.7 80.1

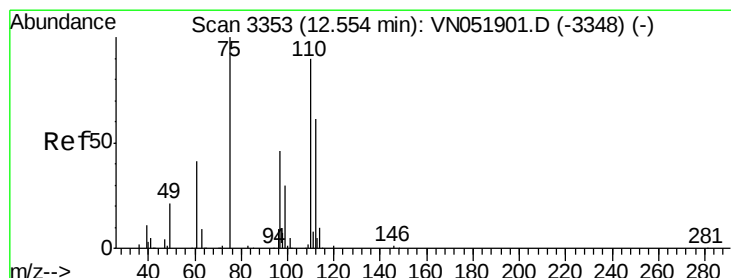
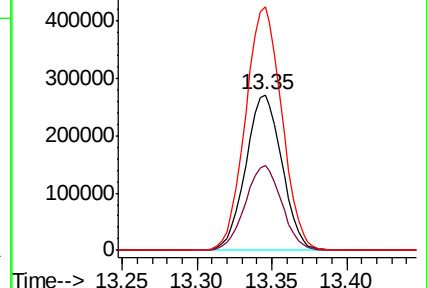
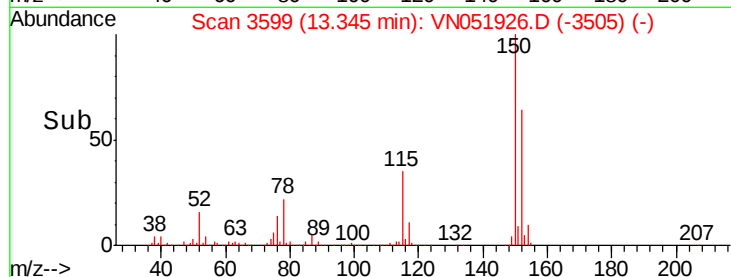
150 157.6 0.0 346.4



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: 51.898 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051926.D

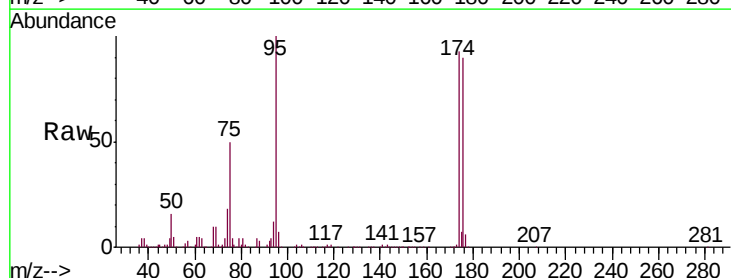
Acq: 18 Oct 2018 19:35

Tgt Ion: 75 Resp: 288029

Ion Ratio Lower Upper

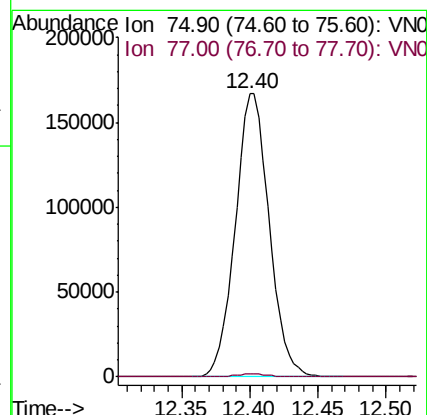
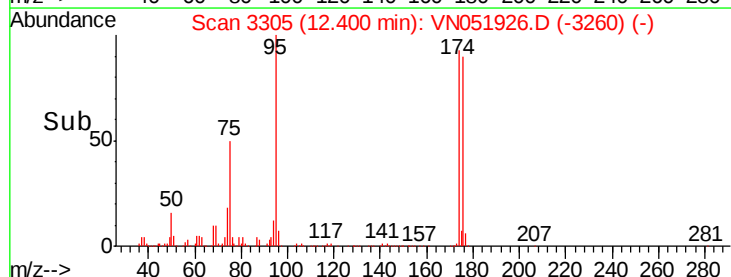
75 100

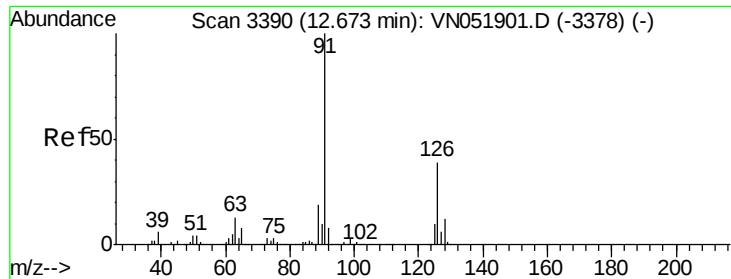
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.06 min

Lab File: VN051926.D

Acq: 18 Oct 2018 19:35

Instrument :

MSVOA_N

ClientSampleId :

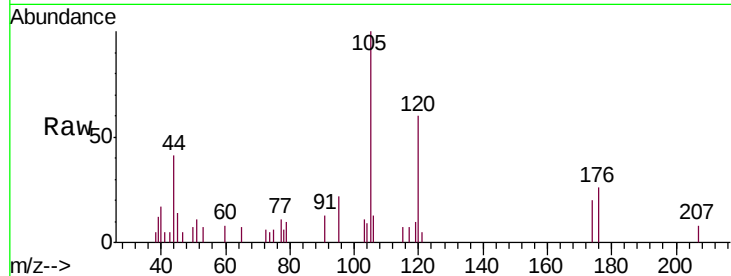
PB113908ZHE#07

Tgt Ion: 91 Resp: 456

Ion Ratio Lower Upper

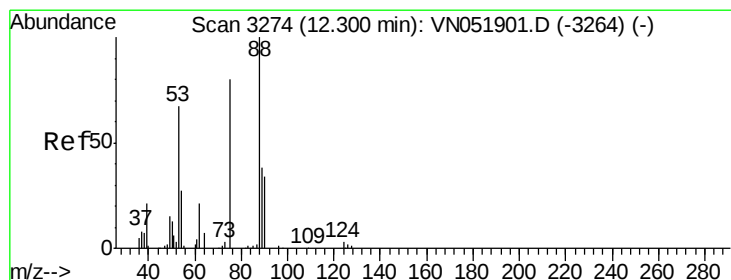
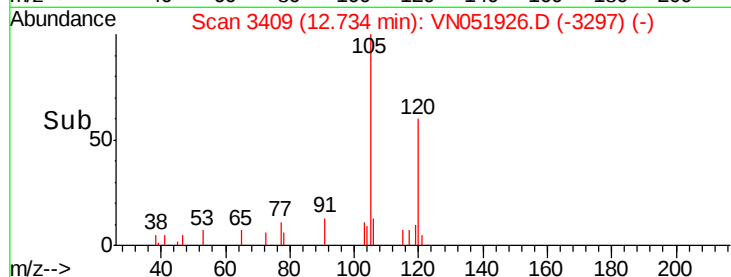
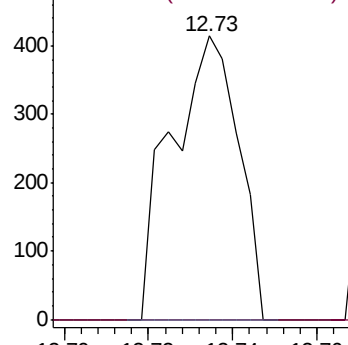
91 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 170.541 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051926.D

Acq: 18 Oct 2018 19:35

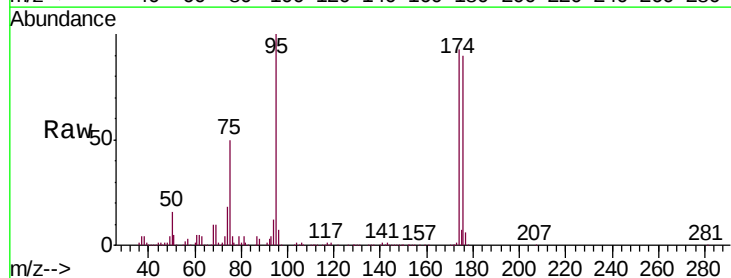
Tgt Ion: 75 Resp: 288029

Ion Ratio Lower Upper

75 100

53 0.0 68.5 102.7#

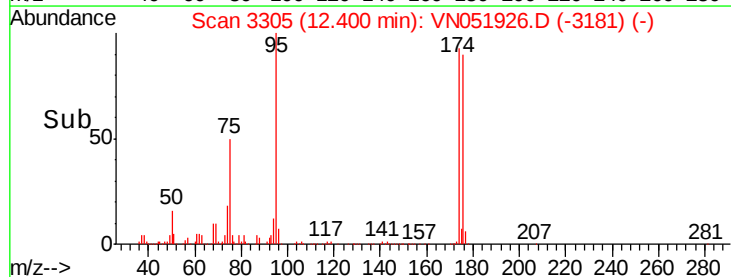
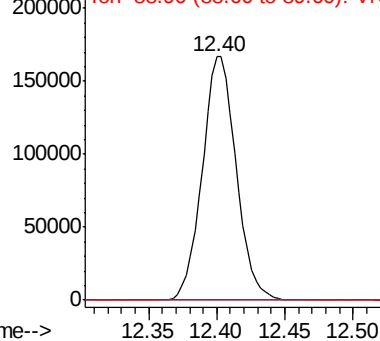
89 0.0 39.0 58.6#

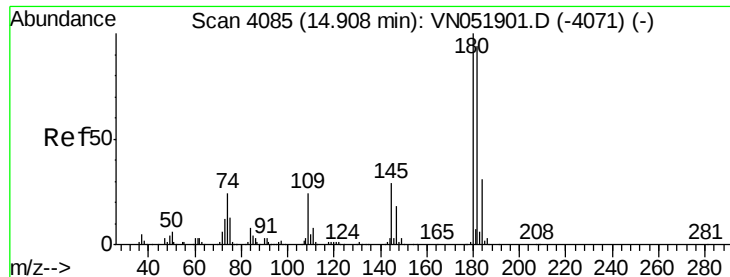


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

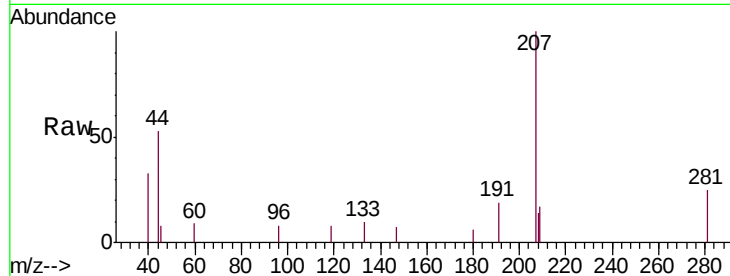




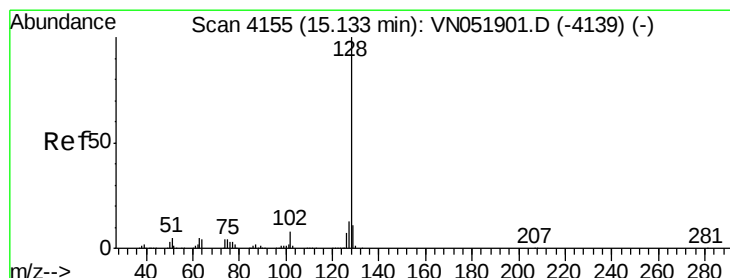
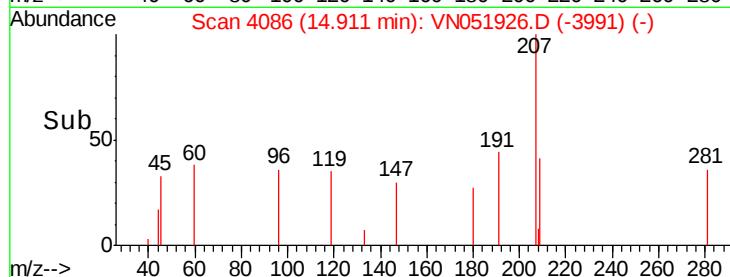
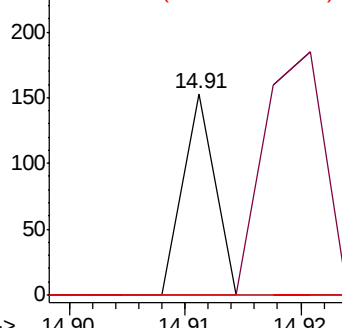
#93
 1,2,4-Trichlorobenzene
 Concen: 4.065 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#07

Tgt Ion:180 Resp: 30
 Ion Ratio Lower Upper
 180 100
 182 223.3 47.3 141.9#
 145 0.0 14.5 43.5#

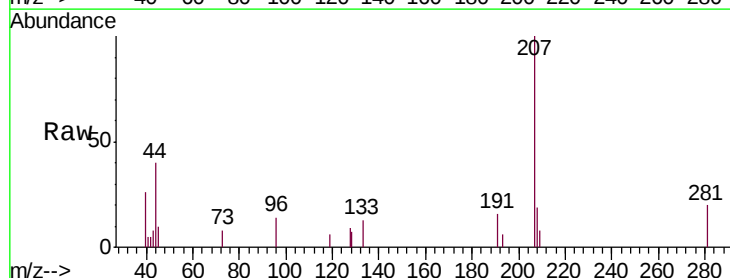


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

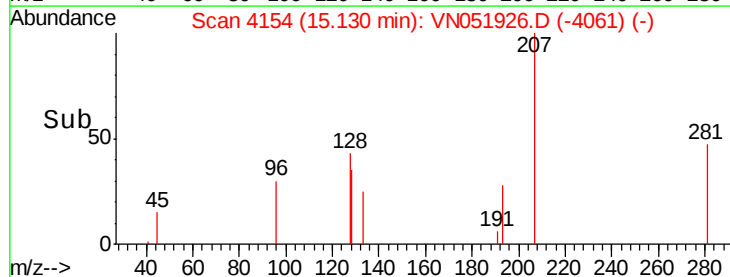
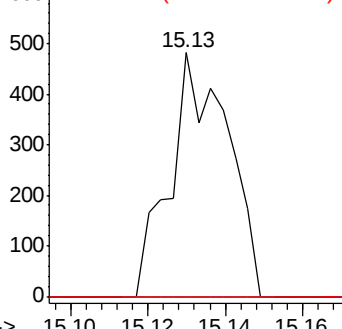


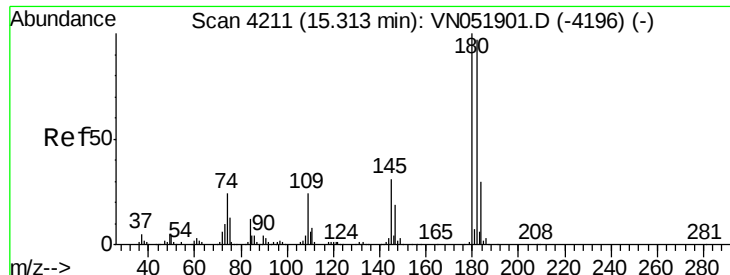
#95
 Naphthalene
 Concen: 4.092 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Tgt Ion:128 Resp: 502
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.5 12.7#



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

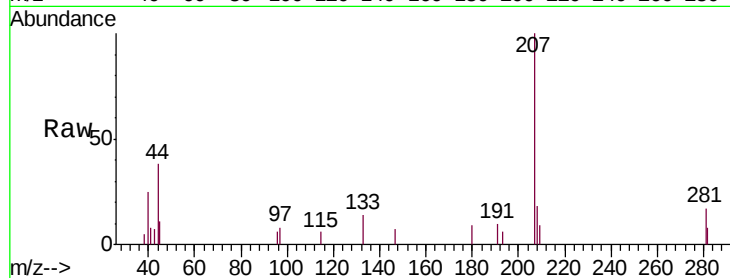




#96
 1,2,3-Trichlorobenzene
 Concen: 2.935 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN051926.D
 Acq: 18 Oct 2018 19:35

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113908ZHE#07

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

