

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101918\
 Data File : VN051947.D
 Acq On : 19 Oct 2018 14:54
 Operator : MD\SY
 Sample : PB113937ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113937ZHE#08

Quant Time: Oct 19 23:08:23 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	953215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1399726	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1260270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	465244	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	527280	59.67	ug/l	0.00
Spiked Amount			Recovery	=	119.34%	
35) Dibromofluoromethane	7.59	113	521713	58.64	ug/l	0.00
Spiked Amount			Recovery	=	117.28%	
50) Toluene-d8	10.09	98	1941634	59.96	ug/l	0.00
Spiked Amount			Recovery	=	119.92%	
62) 4-Bromofluorobenzene	12.40	95	557097	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	

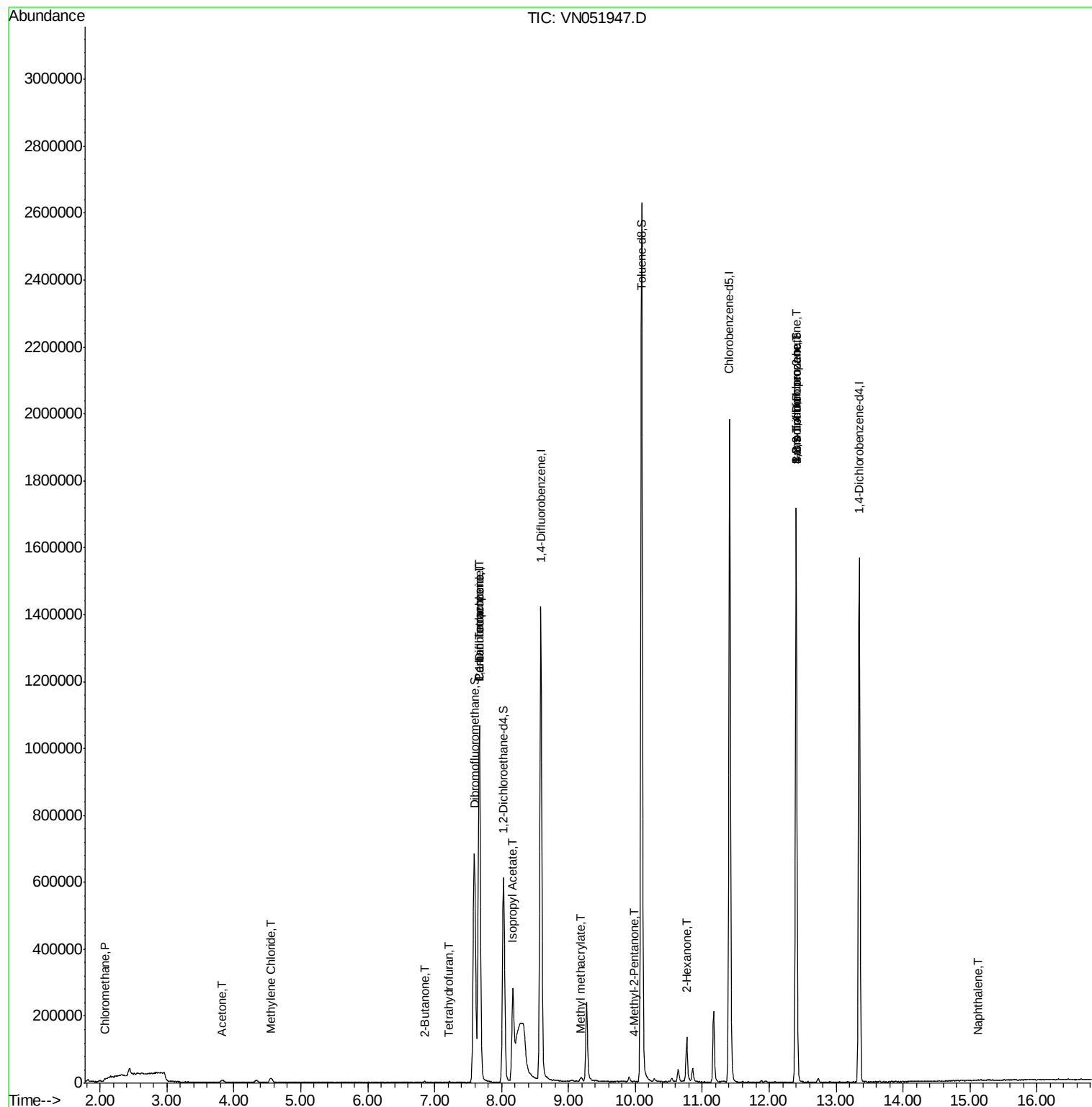
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1216	0.216	ug/l #	82
5) Bromomethane	2.58	94	2124	Below Cal		82
13) Acrolein	3.73	56	67	Below Cal	#	14
16) Acetone	3.83	43	11228	7.175	ug/l	91
18) Methyl Acetate	4.34	43	11222	Below Cal		99
20) Methylene Chloride	4.54	84	10444	1.313	ug/l #	90
25) 2-Butanone	6.86	43	3656	1.635	ug/l #	80
29) Tetrahydrofuran	7.21	42	402	0.294	ug/l #	33
31) Cyclohexane	7.67	56	15553	Below Cal	#	16
36) 1,1-Dichloropropene	7.67	75	58823	5.414	ug/l #	48
37) Ethyl Acetate	6.95	43	537	Below Cal	#	64
38) Carbon Tetrachloride	7.66	117	83778	6.548	ug/l #	16
43) Isopropyl Acetate	8.17	43	349691	35.046	ug/l #	82
48) Methyl methacrylate	9.18	41	2808	0.640	ug/l #	31
51) 4-Methyl-2-Pentanone	9.99	43	1223	0.242	ug/l #	33
59) 2-Hexanone	10.76	43	18444	5.439	ug/l #	54
71) Bromoform	12.40	173	4096	3.777	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	283717	50.173	ug/l #	100
79) 2-Chlorotoluene	12.69	91	165	Below Cal	#	36
81) trans-1,4-Dichloro-2-buten	12.40	75	283717	164.879	ug/l #	14
95) Naphthalene	15.13	128	365	4.083	ug/l #	70

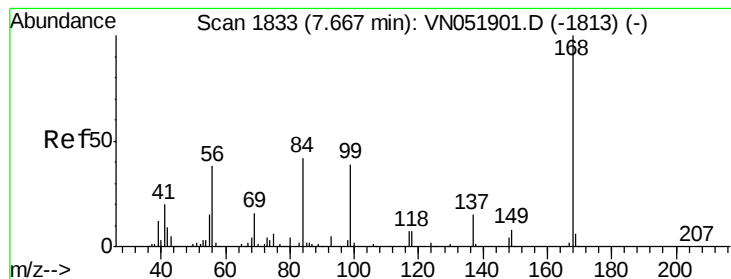
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 19 23:08:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

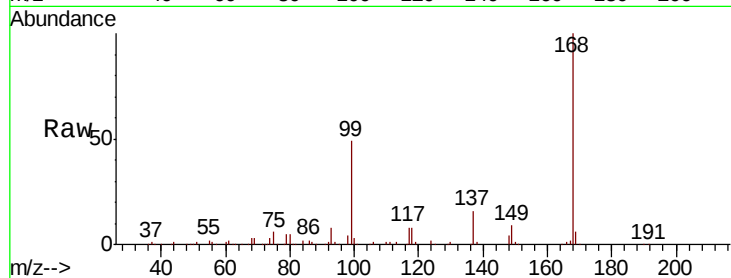
PB113937ZHE#08

Tot Ion:168 Resp: 953215

Ion Ratio Lower Upper

168 100

99 48.6 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

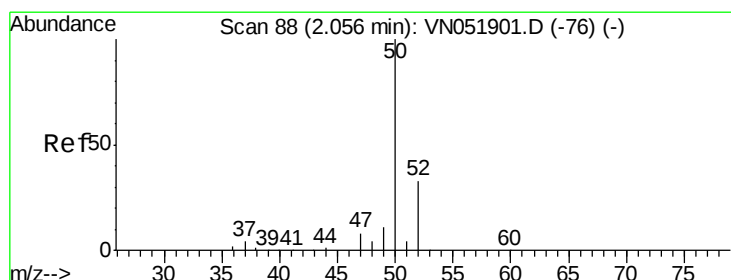
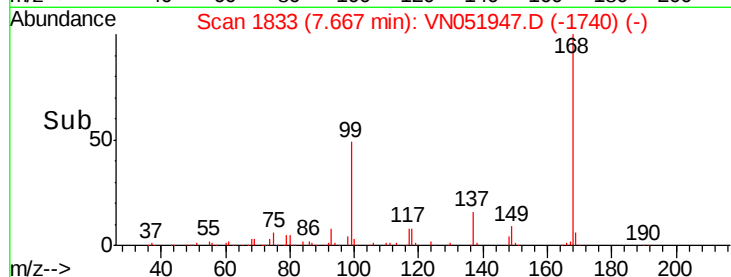
200000

100000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.216 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051947.D

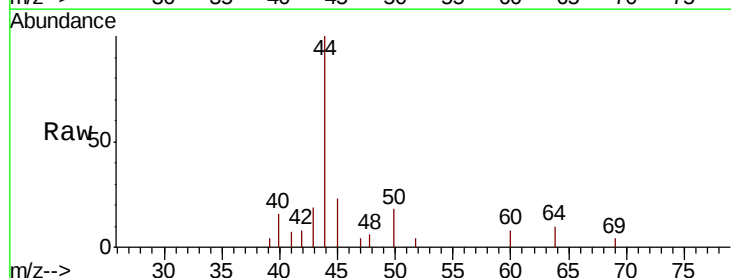
Acq: 19 Oct 2018 14:54

Tgt Ion: 50 Resp: 1216

Ion Ratio Lower Upper

50 100

52 22.5 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

800

600

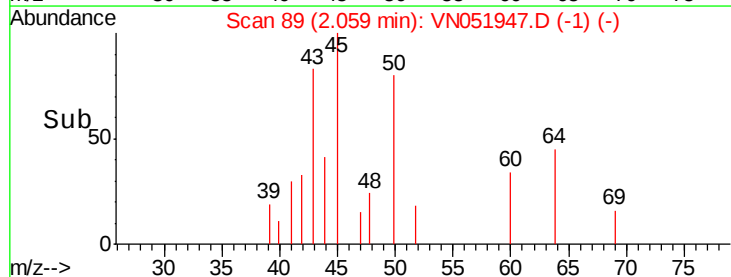
400

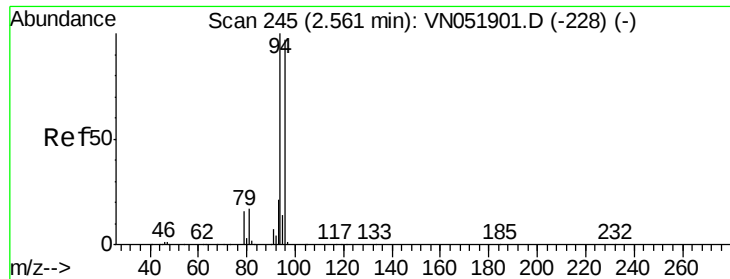
200

0

2.02 2.04 2.06 2.08 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.02 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

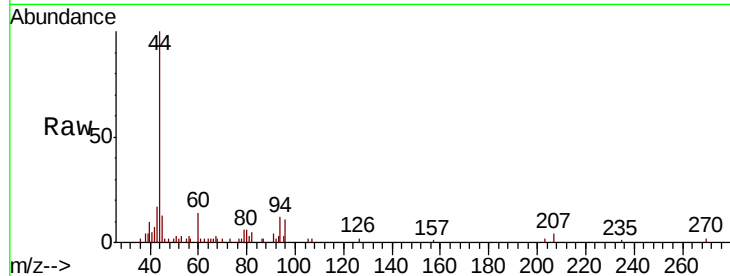
PB113937ZHE#08

Tot Ion: 94 Resp: 2124

Ion Ratio Lower Upper

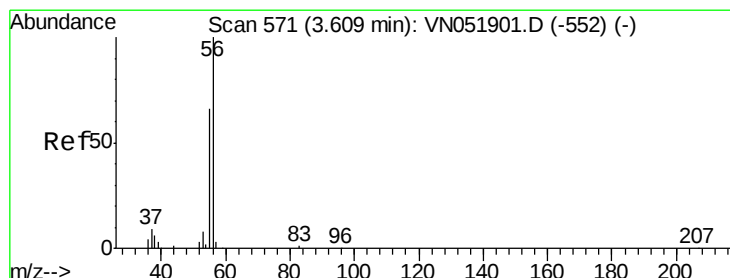
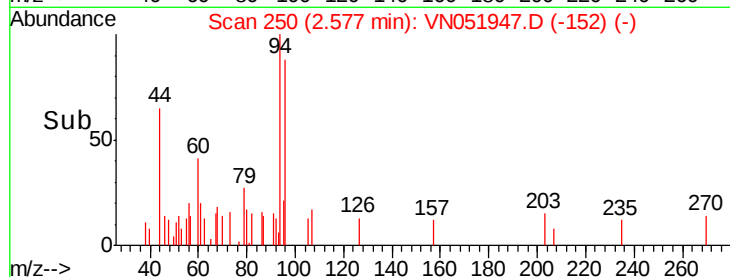
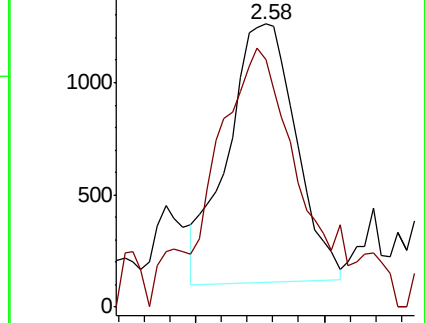
94 100

96 79.3 77.5 116.3



Abundance Ion 93.90 (93.60 to 94.60): VN051947.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VN051947.D (-152) (-)



#13

Acrolein

Concen: Below Cal

RT: 3.73 min Scan# 610

Delta R.T. 0.13 min

Lab File: VN051947.D

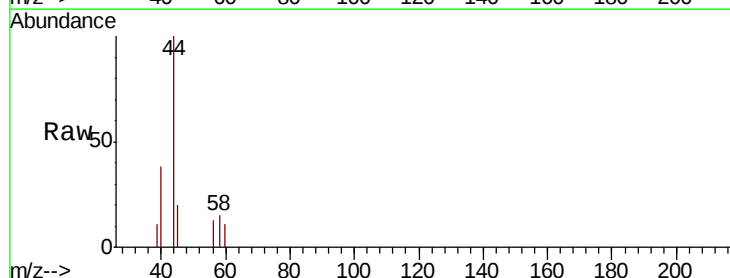
Acq: 19 Oct 2018 14:54

Tgt Ion: 56 Resp: 67

Ion Ratio Lower Upper

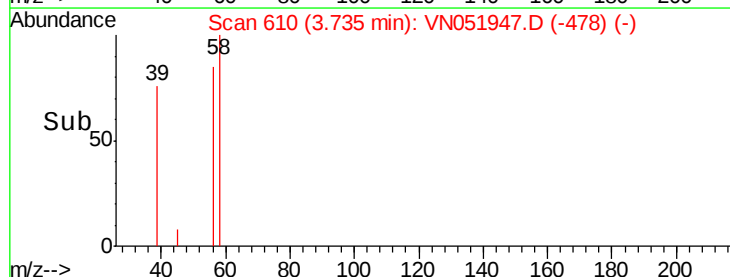
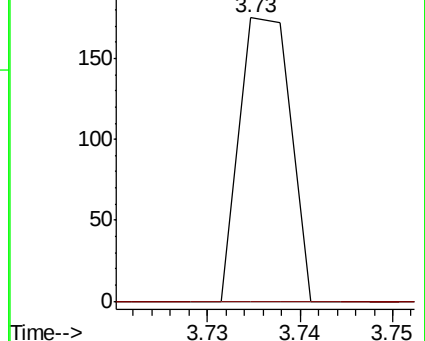
56 100

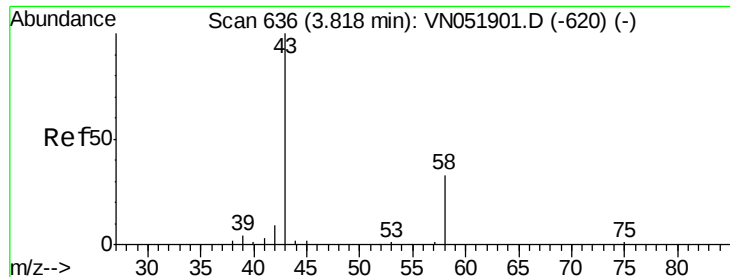
55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN051947.D (-478) (-)

Ion 55.00 (54.70 to 55.70): VN051947.D (-478) (-)





#16

Acetone

Concen: 7.175 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.02 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

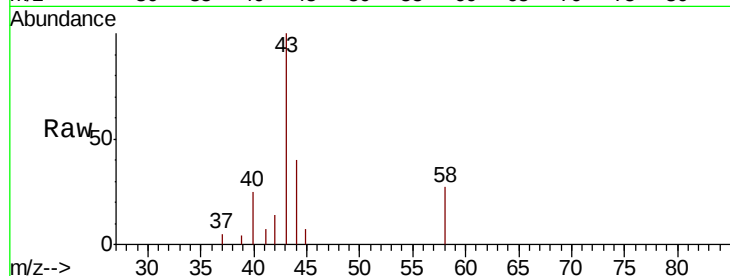
PB113937ZHE#08

Tot Ion: 43 Resp: 11228

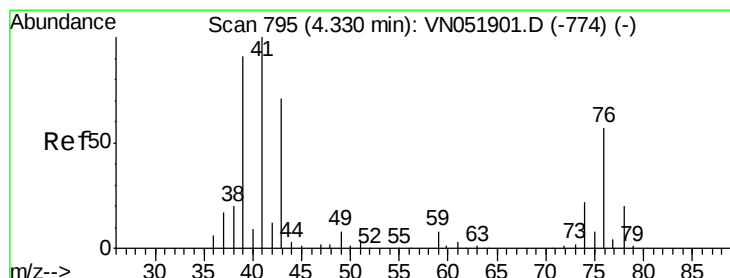
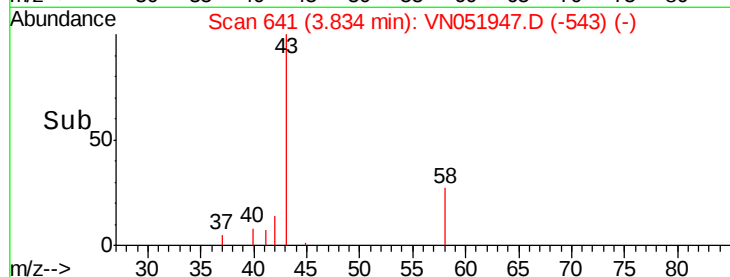
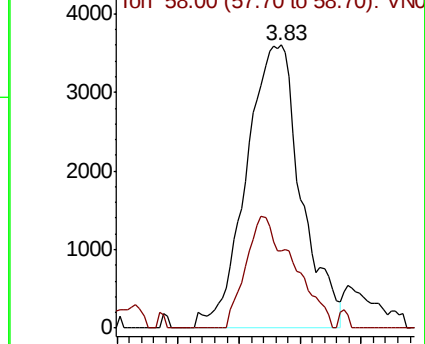
Ion Ratio Lower Upper

43 100

58 27.4 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN051947.D (-620) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051947.D

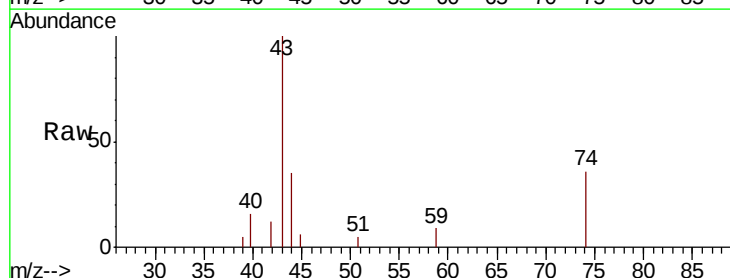
Acq: 19 Oct 2018 14:54

Tgt Ion: 43 Resp: 11222

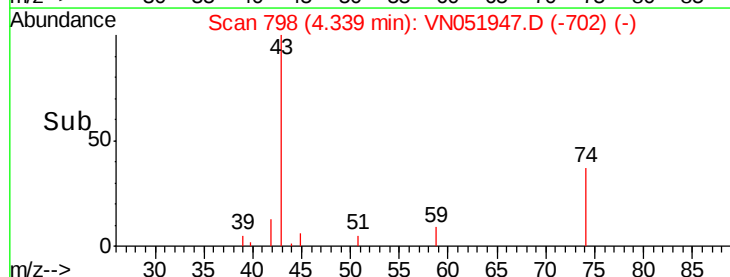
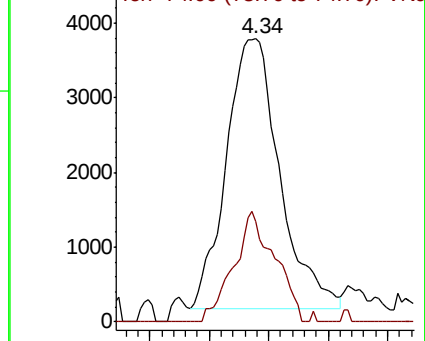
Ion Ratio Lower Upper

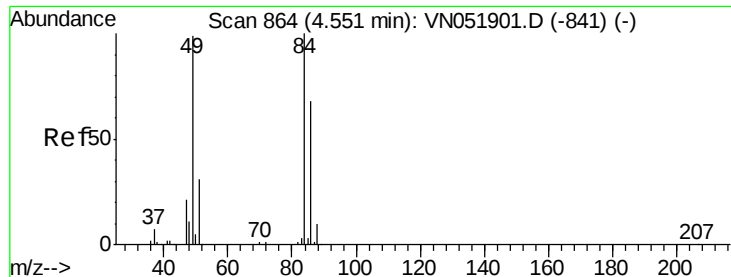
43 100

74 31.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN051947.D (-774) (-)

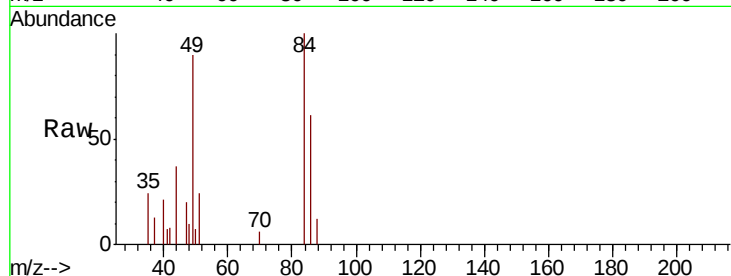




#20
Methvlene Chloride
Concen: 1.313 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.01 min
Lab File: VN051947.D
Acq: 19 Oct 2018 14:54

Instrument :
MSVOA_N
ClientSampleId :
PB113937ZHE#08

Tot Ion	84	Resp	10444
Ion	Ratio	Lower	Upper
84	100		
49	90.3	79.0	118.4
51	23.6	24.9	37.3#
86	60.8	54.6	82.0



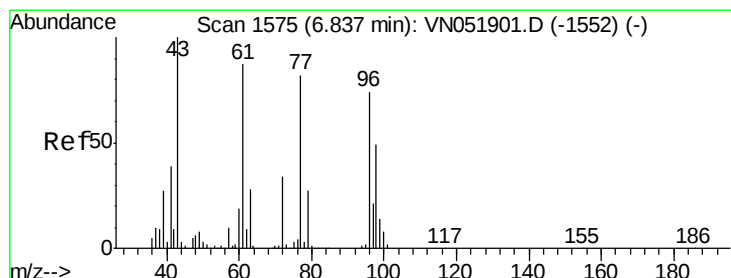
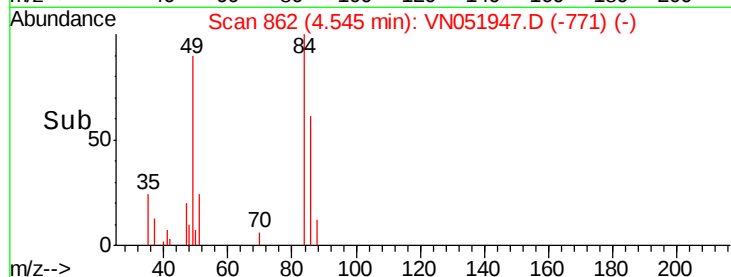
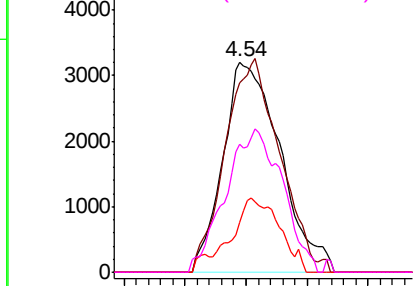
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

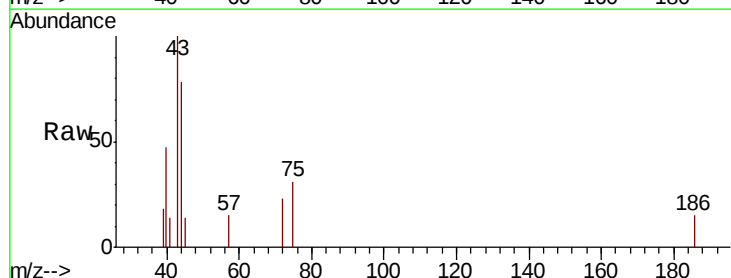
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 1.635 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN051947.D
Acq: 19 Oct 2018 14:54

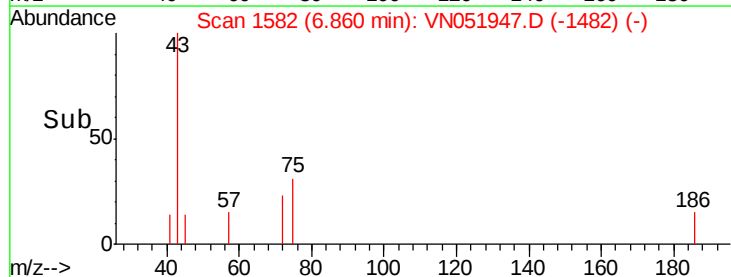
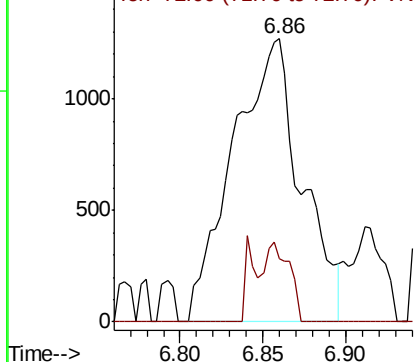
Tgt Ion	43	Resp	3656
Ion	Ratio	Lower	Upper
43	100		
72	22.5	27.0	40.6#

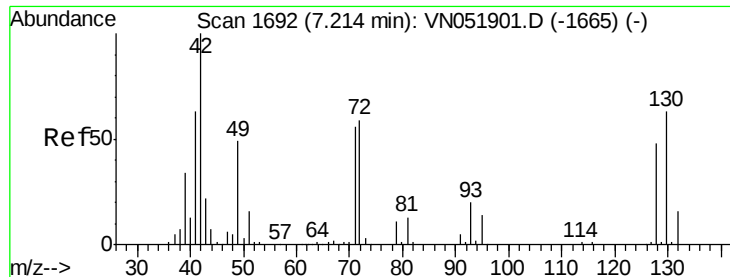


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.294 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.01 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#08

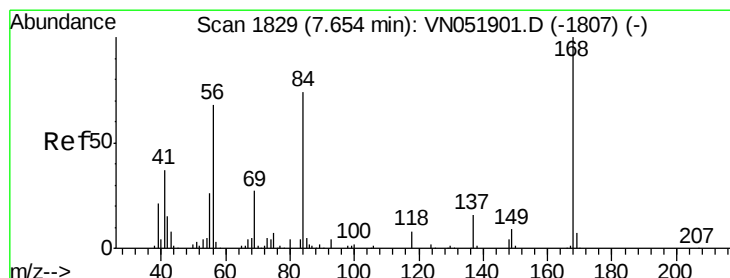
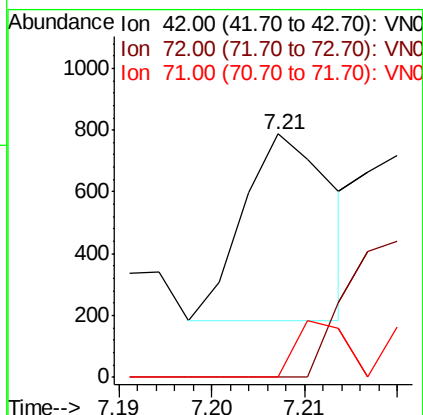
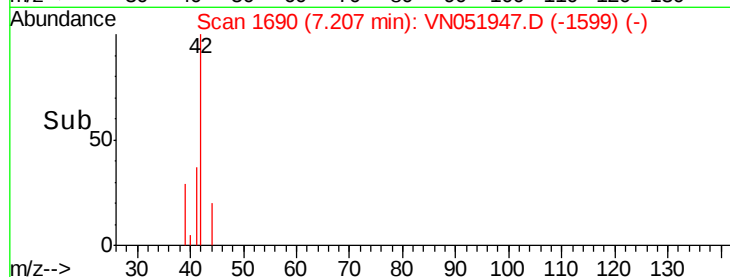
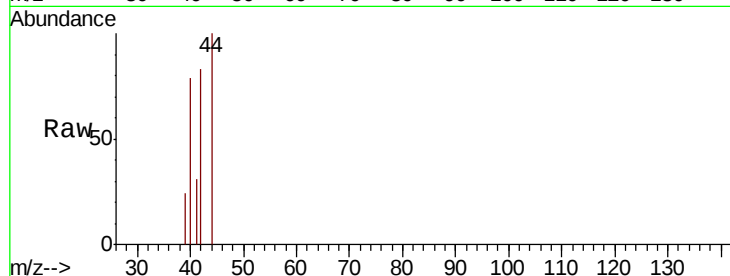
Tot Ion: 42 Resp: 402

Ion Ratio Lower Upper

42 100

72 0.0 47.7 71.5#

71 16.4 45.4 68.0#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

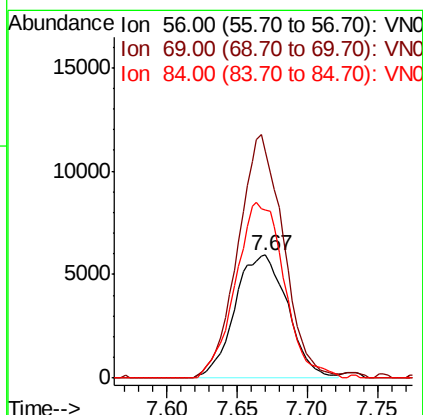
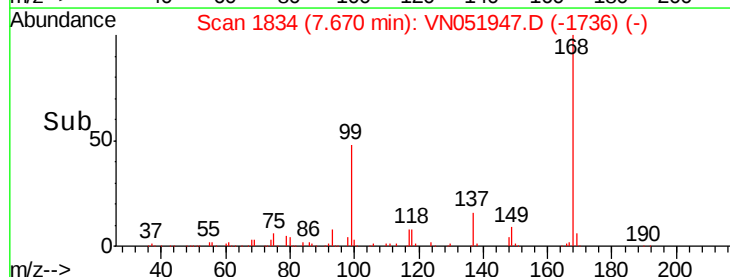
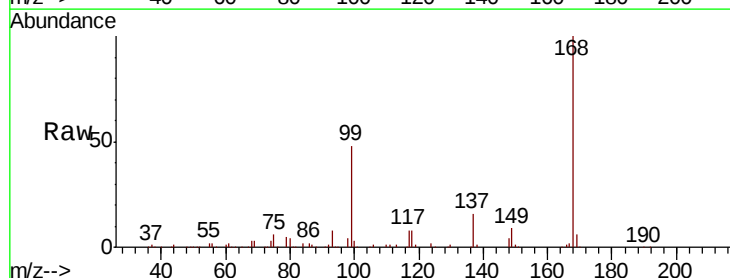
Tgt Ion: 56 Resp: 15553

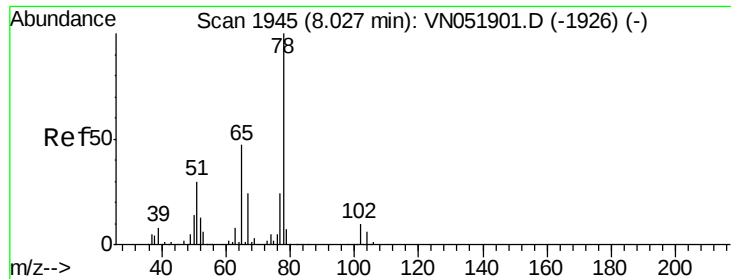
Ion Ratio Lower Upper

56 100

69 184.7 31.2 46.8#

84 137.3 86.6 130.0#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

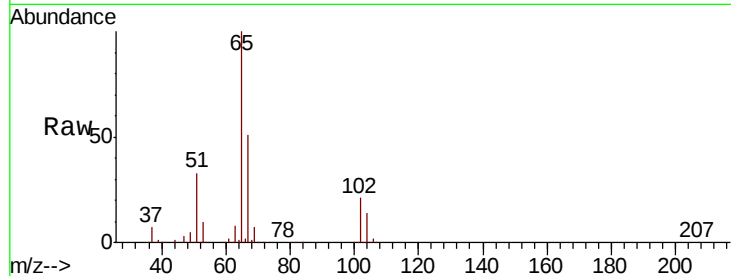
PB113937ZHE#08

Tot Ion: 65 Resp: 527280

Ion Ratio Lower Upper

65 100

67 51.5 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

250000

200000

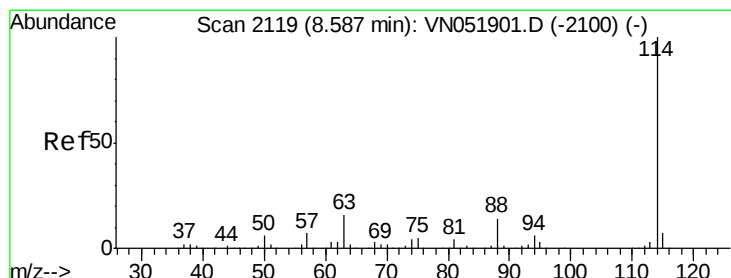
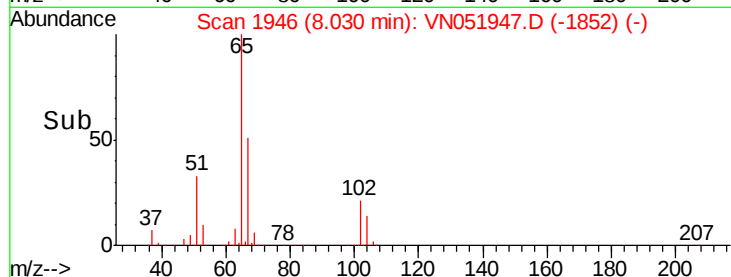
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

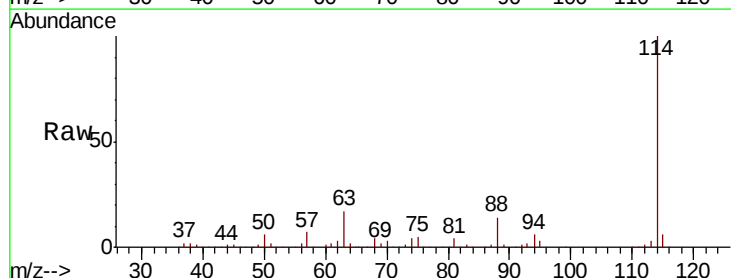
Tgt Ion: 114 Resp: 1399726

Ion Ratio Lower Upper

114 100

63 16.6 0.0 31.8

88 13.9 0.0 28.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

800000

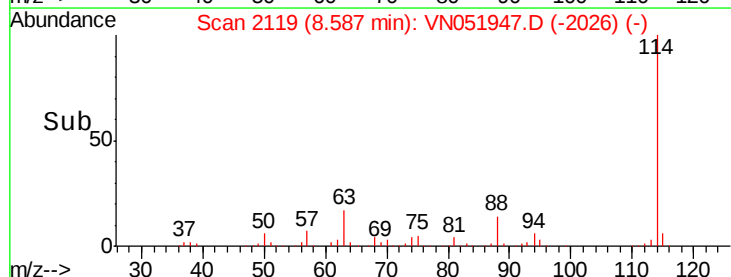
600000

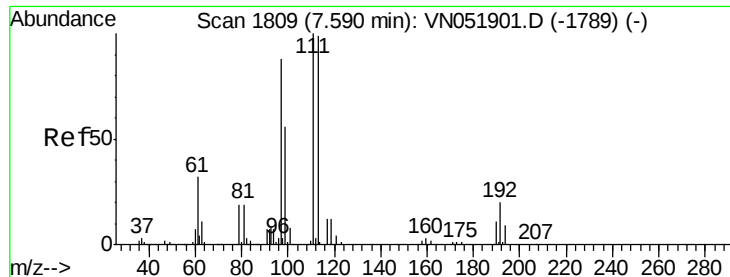
400000

200000

0

Time--> 8.50 8.60 8.70

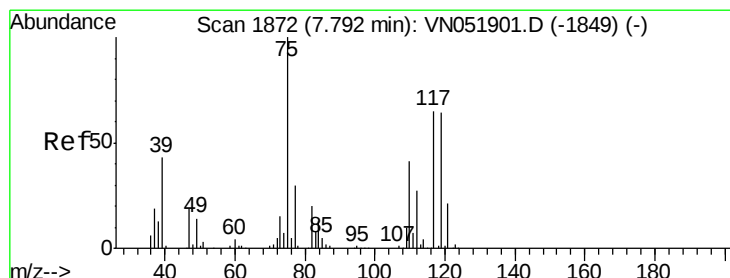
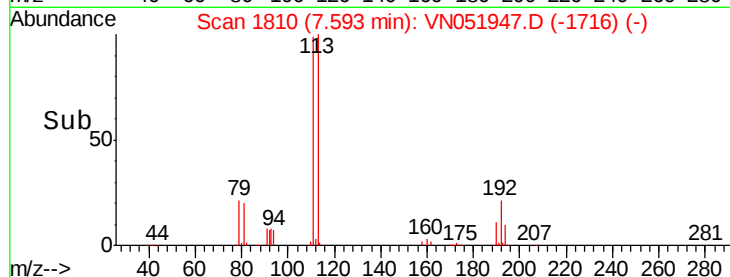
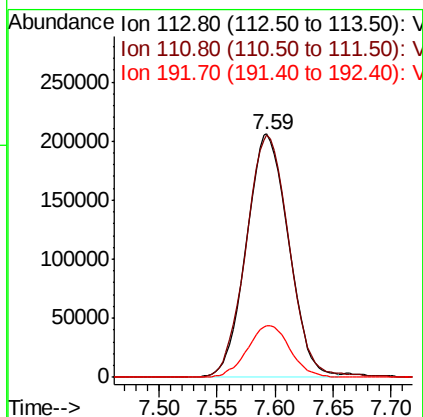
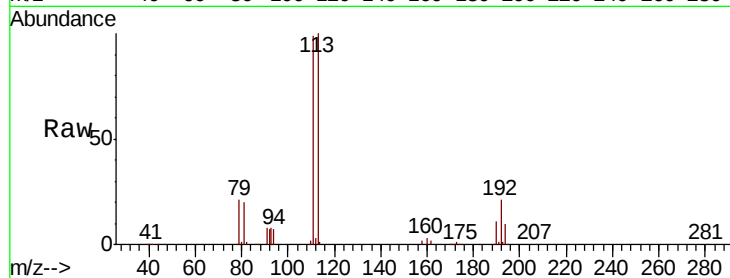




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051947.D
 Acq: 19 Oct 2018 14:54

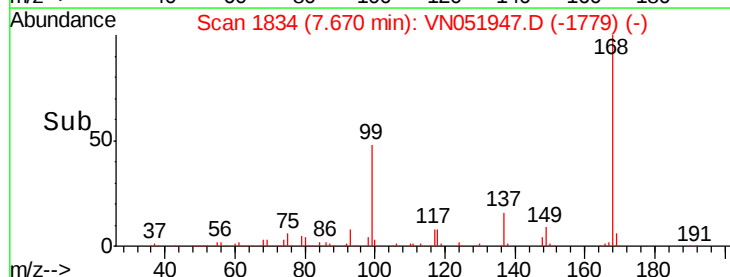
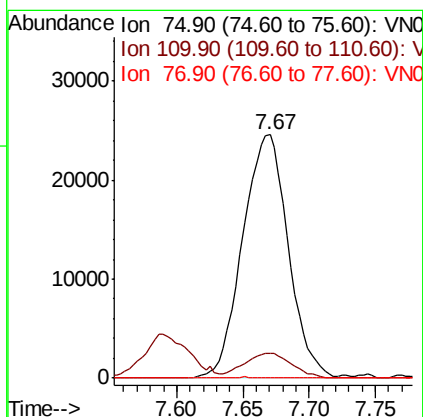
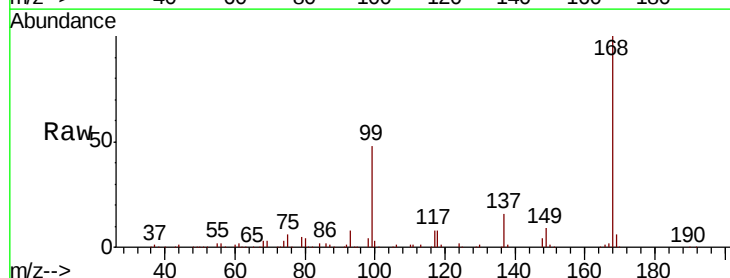
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113937ZHE#08

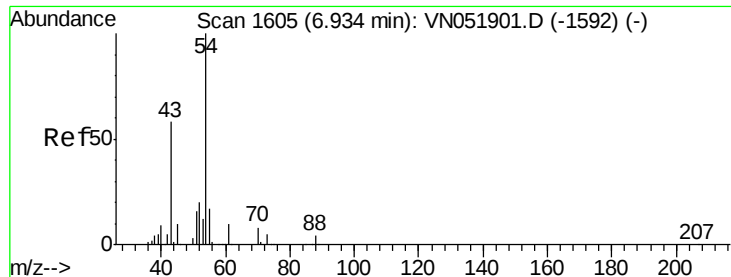
Tot Ion:113 Resp: 521713
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.6 123.8
 192 21.7 17.3 25.9



#36
 1,1-Dichloropropene
 Concen: 5.414 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051947.D
 Acq: 19 Oct 2018 14:54

Tgt Ion: 75 Resp: 58823
 Ion Ratio Lower Upper
 75 100
 110 10.9 21.0 63.0#
 77 0.1 24.9 37.3#





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.95 min Scan# 1610

Delta R.T. 0.02 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#08

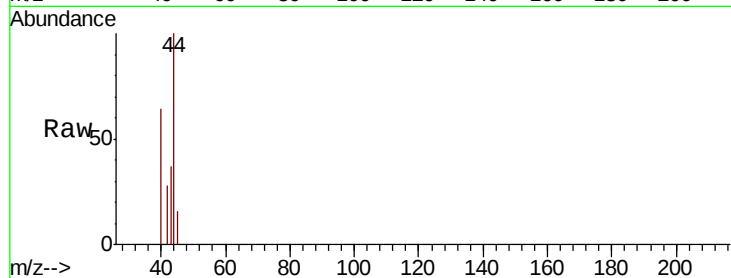
Tot Ion: 43 Resp: 537

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): VN051947.D (-1511) (-)

Ion 60.90 (60.60 to 61.60): VN051947.D (-1511) (-)

Ion 70.00 (69.70 to 70.70): VN051947.D (-1511) (-)

6.95

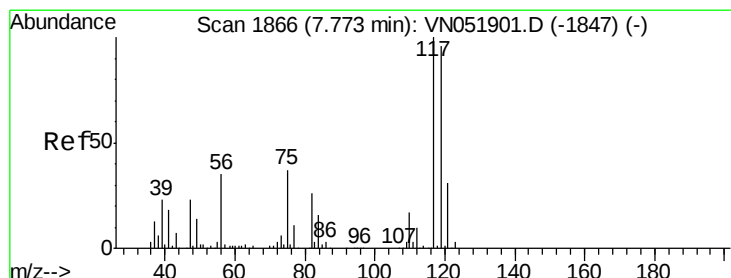
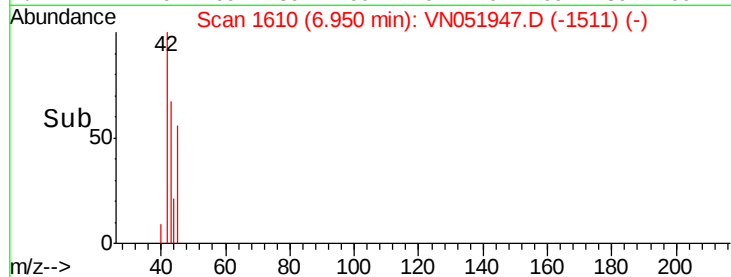
300

200

100

0

Time--> 6.92 6.94 6.96 6.98



#38

Carbon Tetrachloride

Concen: 6.548 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

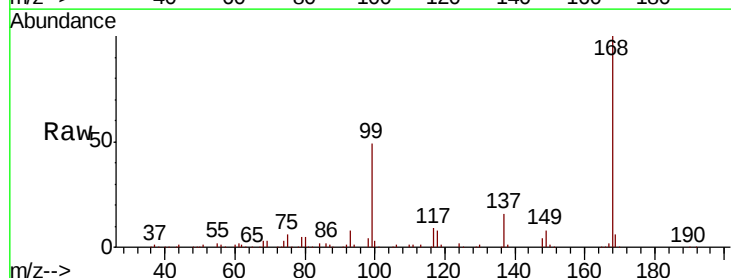
Tgt Ion: 117 Resp: 83778

Ion Ratio Lower Upper

117 100

119 5.9 77.0 115.6#

121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN051947.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN051947.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN051947.D (-1773) (-)

7.66

40000

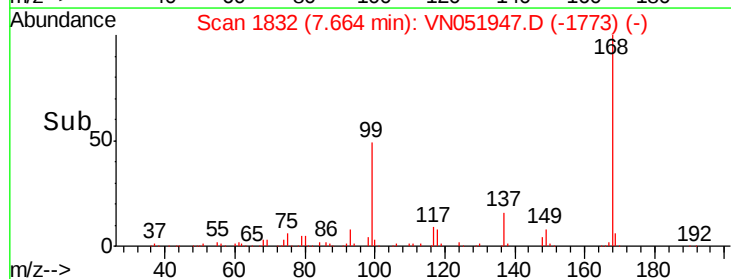
30000

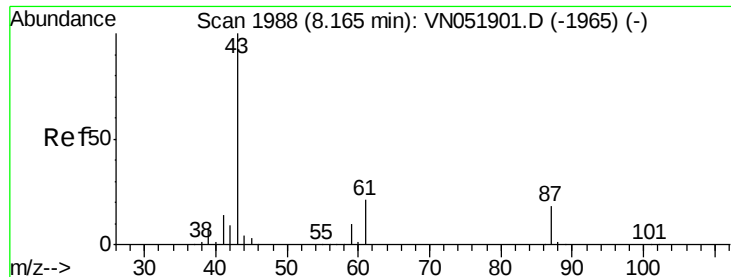
20000

10000

0

Time--> 7.55 7.60 7.65 7.70 7.75





#43

Isopropyl Acetate

Concen: 35.046 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#08

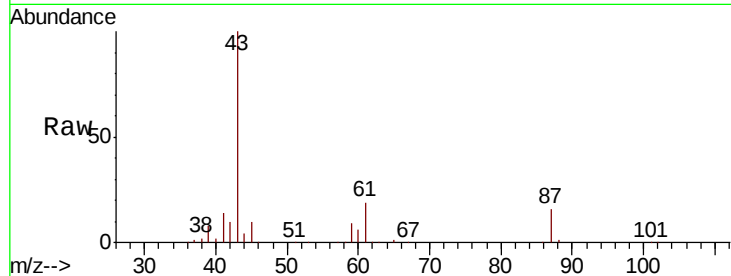
Tot Ion: 43 Resp: 349691

Ion Ratio Lower Upper

43 100

61 17.7 24.9 37.3#

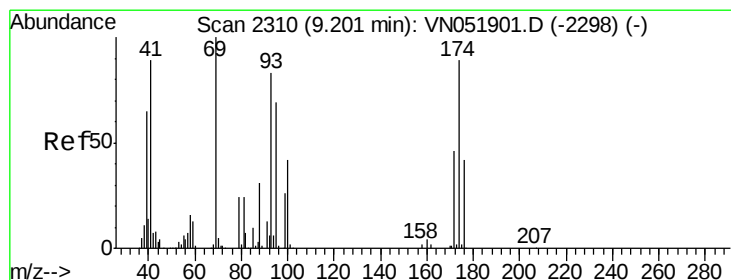
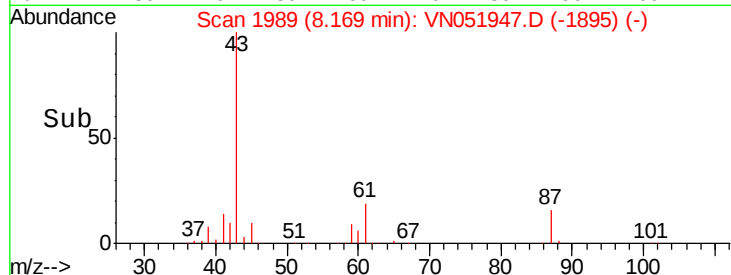
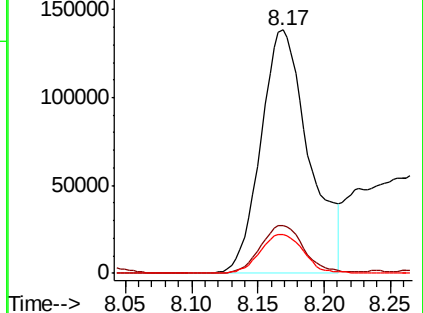
87 14.7 14.6 22.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 0.640 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

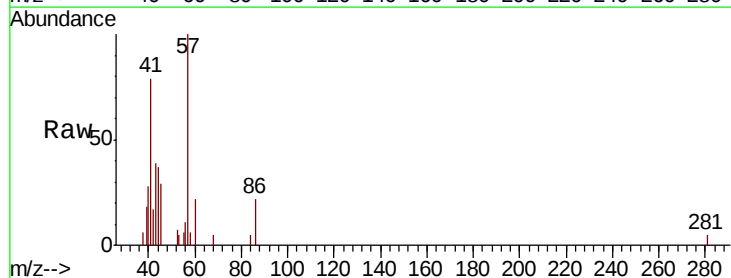
Tgt Ion: 41 Resp: 2808

Ion Ratio Lower Upper

41 100

69 0.0 90.2 135.2#

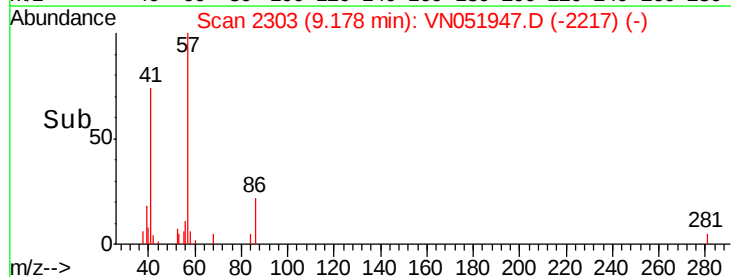
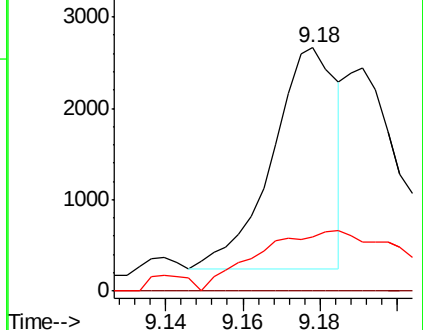
39 63.1 59.7 89.5

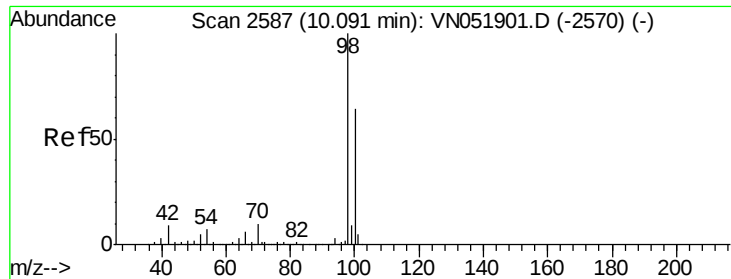


Abundance Ion 41.00 (40.70 to 41.70): VN0

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: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

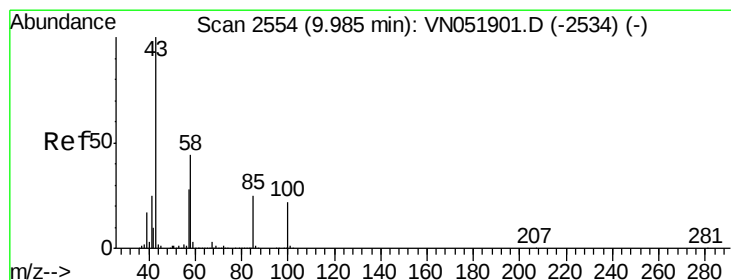
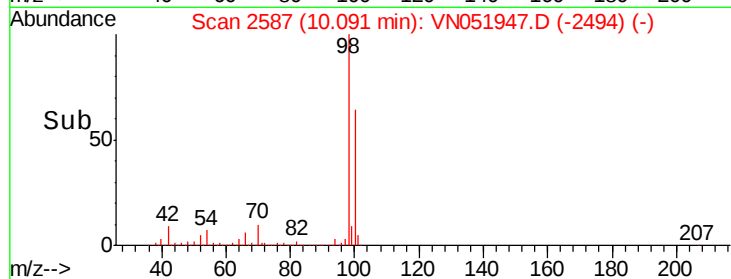
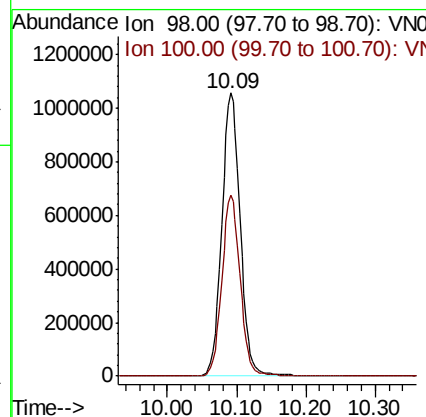
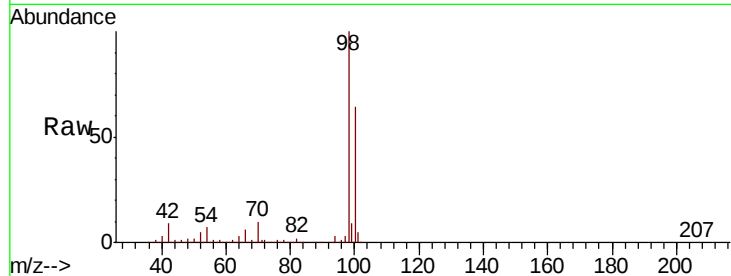
PB113937ZHE#08

Tot Ion: 98 Resp: 1941634

Ion Ratio Lower Upper

98 100

100 63.6 51.0 76.4



#51

4-Methyl-2-Pentanone

Concen: 0.242 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051947.D

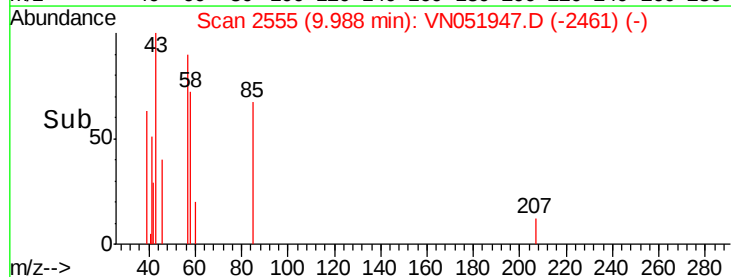
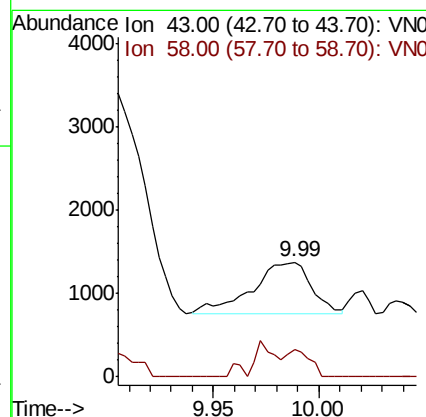
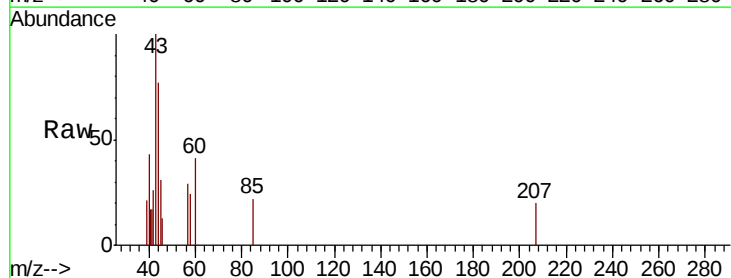
Acq: 19 Oct 2018 14:54

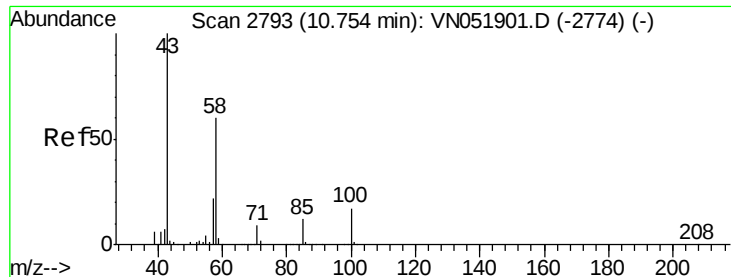
Tgt Ion: 43 Resp: 1223

Ion Ratio Lower Upper

43 100

58 0.0 34.6 52.0#

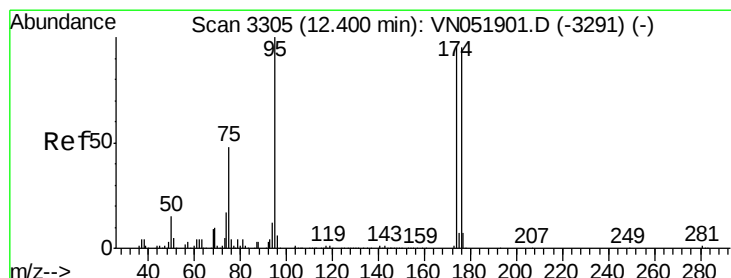
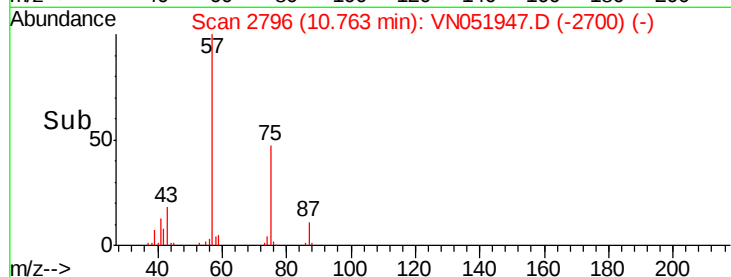
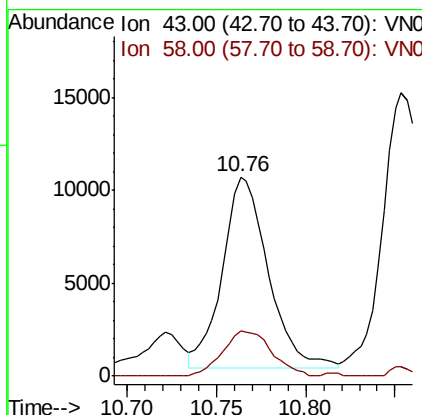
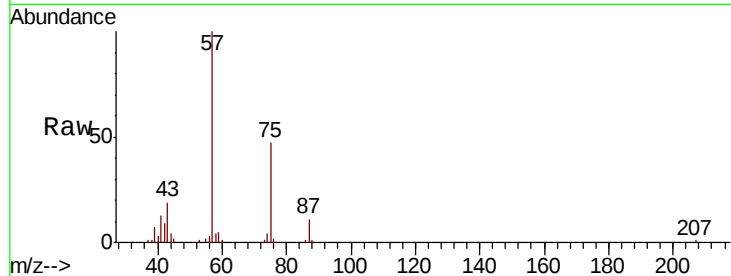




#59
2-Hexanone
Concen: 5.439 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051947.D
Acq: 19 Oct 2018 14:54

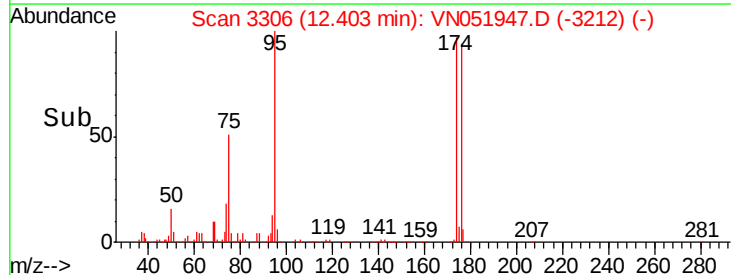
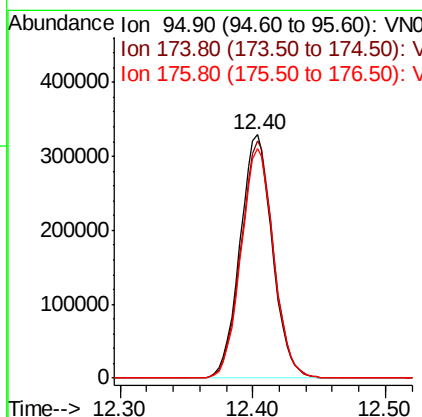
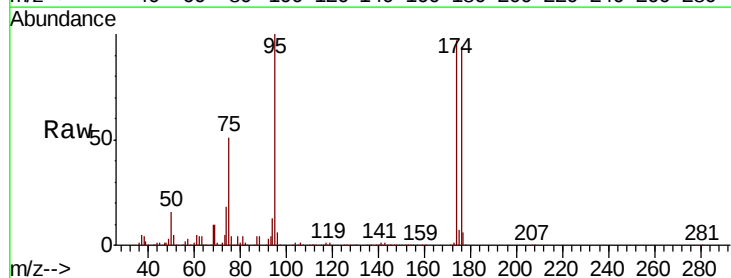
Instrument :
MSVOA_N
ClientSampleId :
PB113937ZHE#08

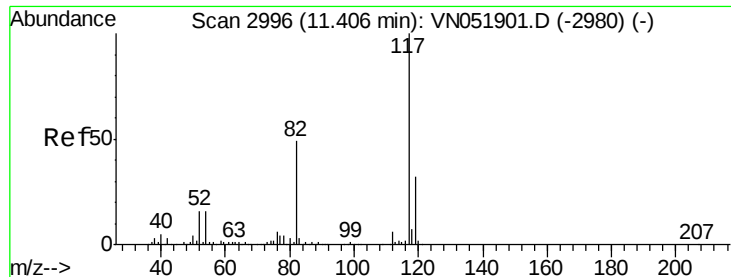
Tot Ion: 43 Resp: 18444
Ion Ratio Lower Upper
43 100
58 25.2 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051947.D
Acq: 19 Oct 2018 14:54

Tgt Ion: 95 Resp: 557097
Ion Ratio Lower Upper
95 100
174 98.0 0.0 195.0
176 95.0 0.0 191.4

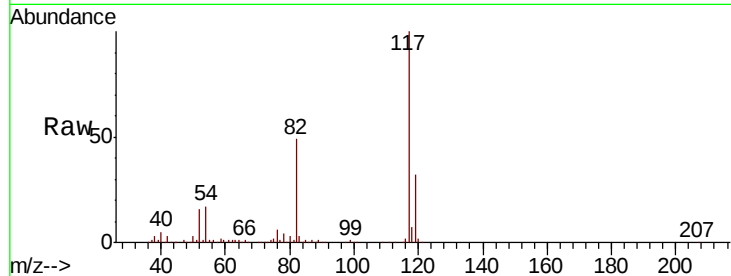




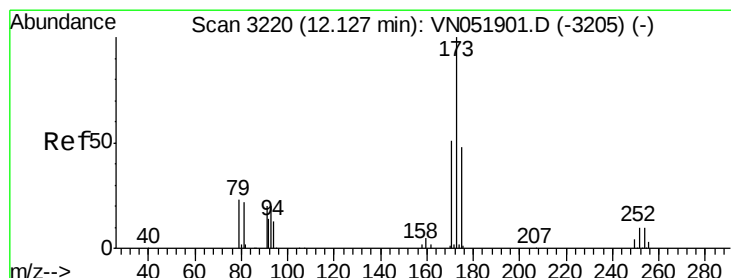
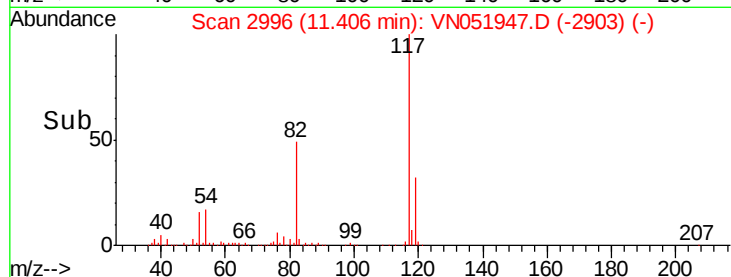
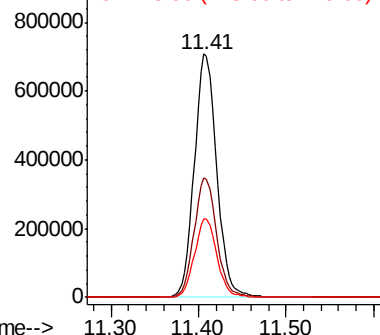
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051947.D
Acq: 19 Oct 2018 14:54

Instrument :
MSVOA_N
ClientSampleId :
PB113937ZHE#08

Tot Ion:117 Resp: 1260270
Ion Ratio Lower Upper
117 100
82 49.3 38.9 58.3
119 32.2 25.9 38.9

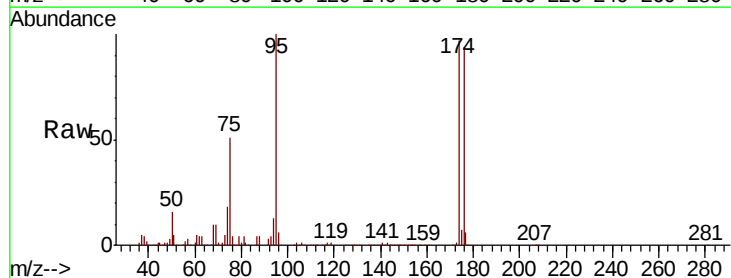


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

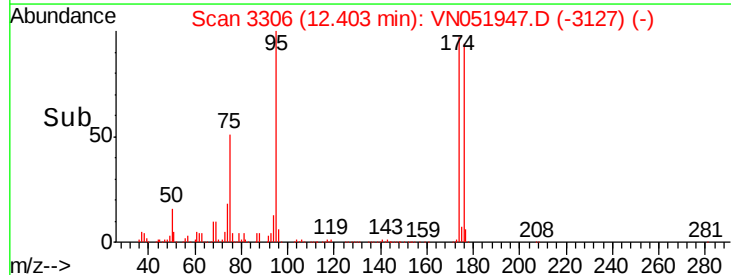
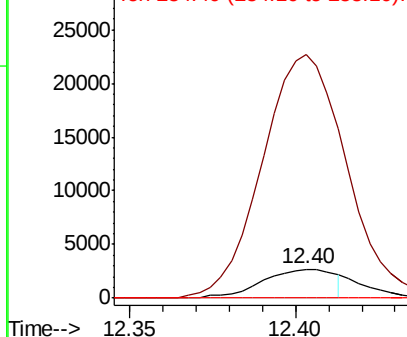


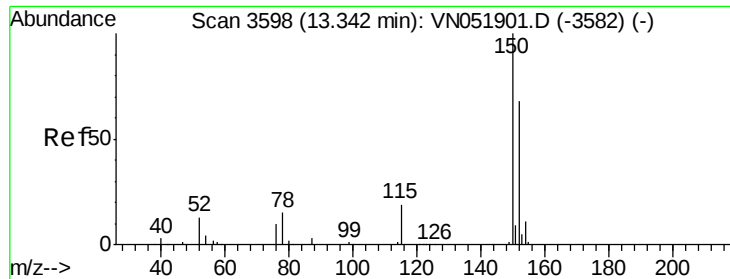
#71
Bromoform
Concen: 3.777 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051947.D
Acq: 19 Oct 2018 14:54

Tgt Ion:173 Resp: 4096
Ion Ratio Lower Upper
173 100
175 821.5 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: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#08

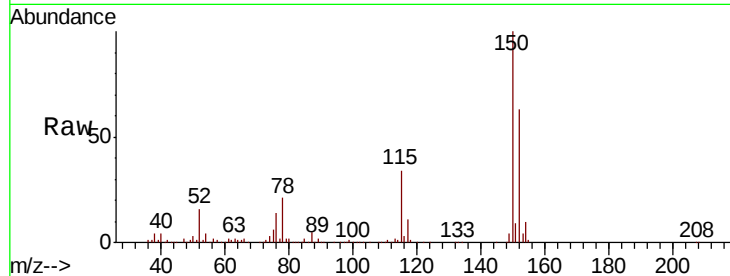
Tot Ion:152 Resp: 465244

Ion Ratio Lower Upper

152 100

115 54.7 26.7 80.1

150 155.7 0.0 346.4

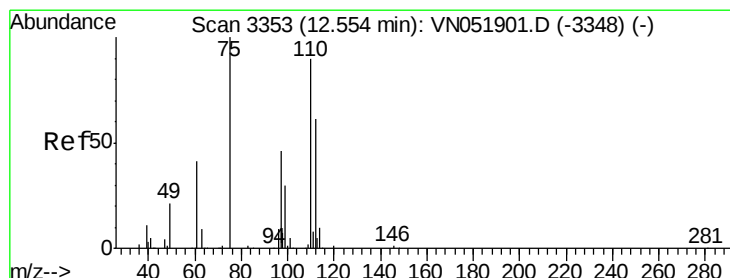
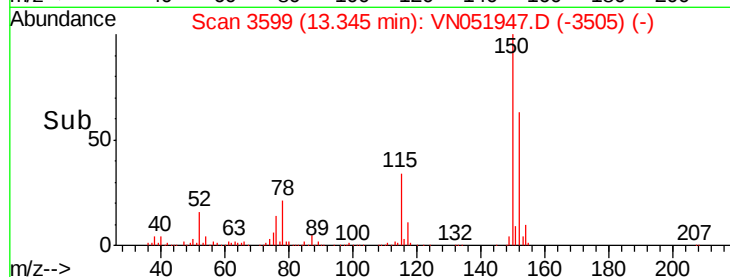
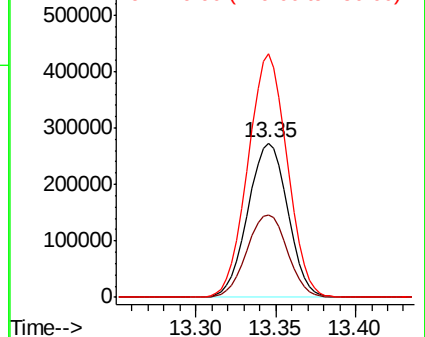


Abundance

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: 50.173 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051947.D

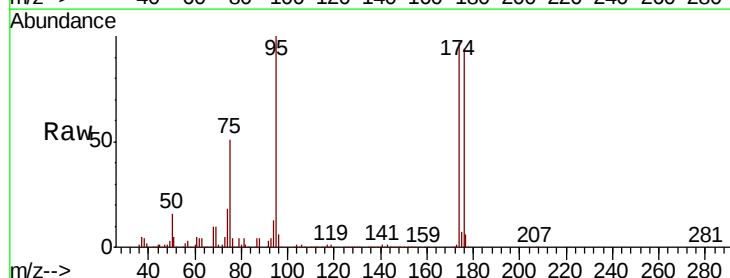
Acq: 19 Oct 2018 14:54

Tgt Ion: 75 Resp: 283717

Ion Ratio Lower Upper

75 100

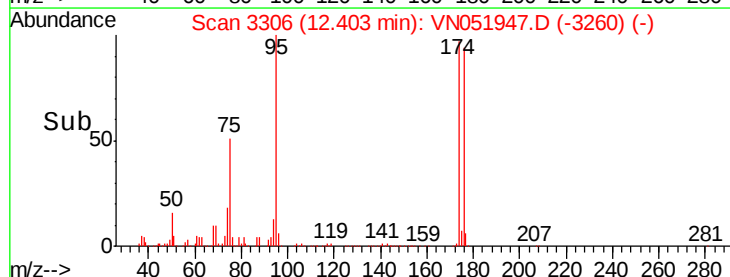
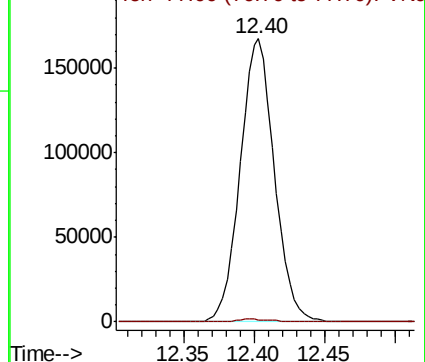
77 1.0 0.0 0.0#

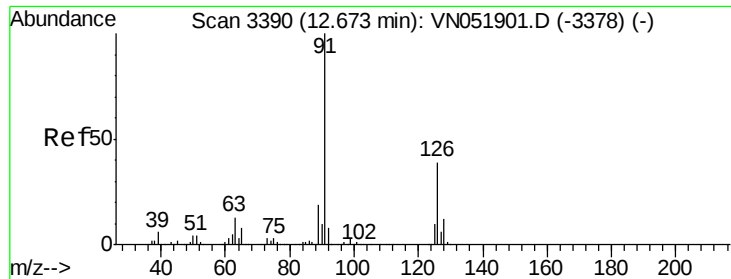


Abundance

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: 12.69 min Scan# 3394

Delta R.T. 0.01 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

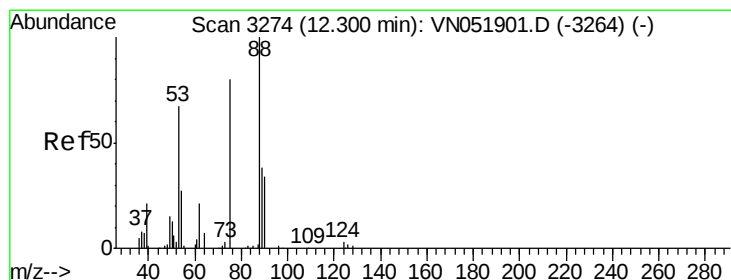
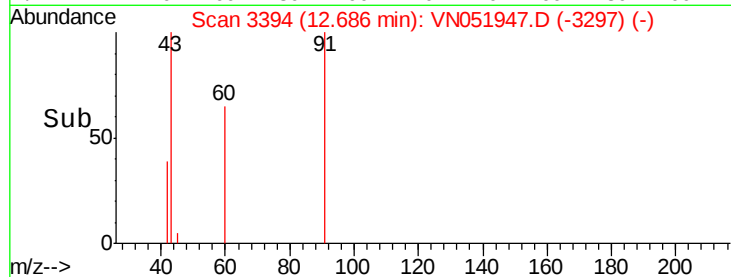
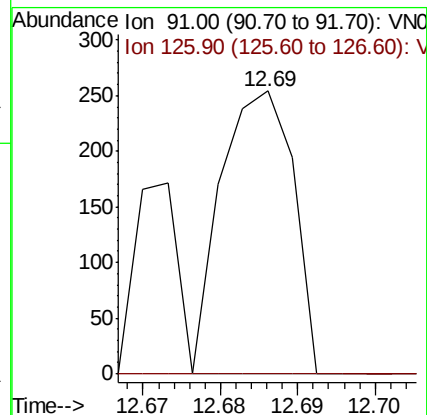
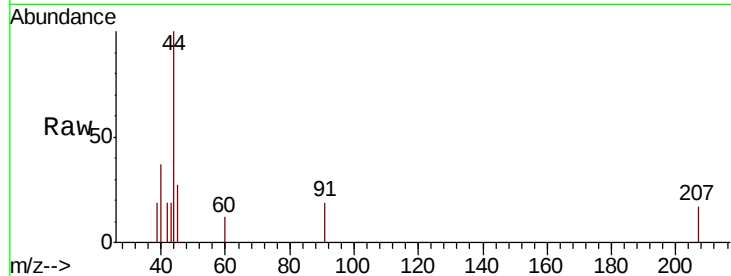
PB113937ZHE#08

Tot Ion: 91 Resp: 165

Ion Ratio Lower Upper

91 100

126 0.0 19.6 58.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 164.879 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051947.D

Acq: 19 Oct 2018 14:54

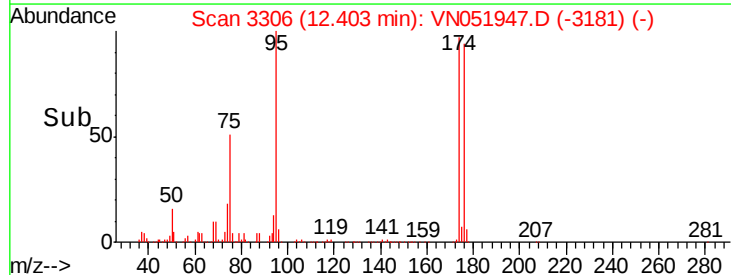
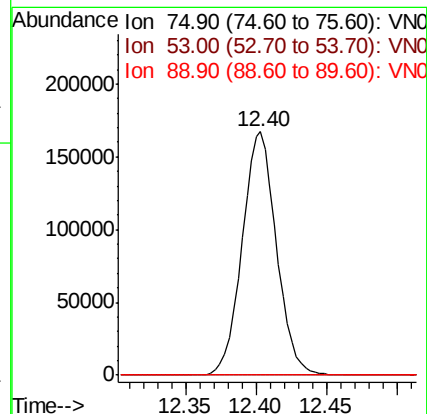
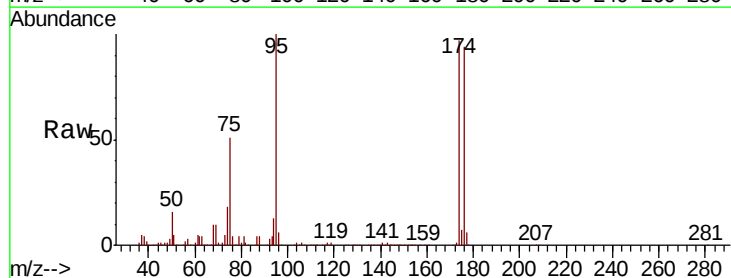
Tgt Ion: 75 Resp: 283717

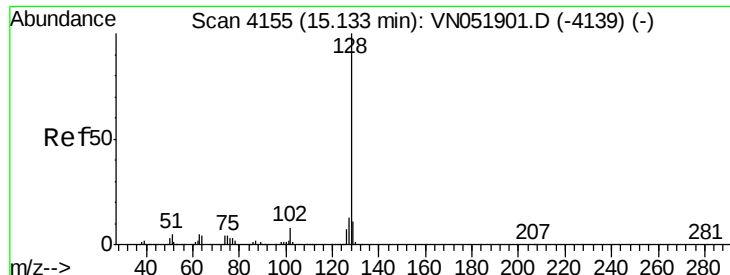
Ion Ratio Lower Upper

75 100

53 0.0 68.5 102.7#

89 0.0 39.0 58.6#





#95
Naphthalene
Concen: 4.083 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN051947.D
Acq: 19 Oct 2018 14:54

Instrument :
MSVOA_N
ClientSampleId :
PB113937ZHE#08

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.5	12.7#

