

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051766.D
 Acq On : 9 Oct 2018 22:40
 Operator : MD\SY
 Sample : PB113645ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#06

Quant Time: Oct 10 03:36:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	729959	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1058977	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	948806	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	353865	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	433394	44.94	ug/l	0.00
Spiked Amount			Recovery	=	89.88%	
35) Dibromofluoromethane	7.60	113	396123	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
50) Toluene-d8	10.09	98	1515841	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	12.40	95	432416	39.99	ug/l	0.00
Spiked Amount			Recovery	=	79.98%	

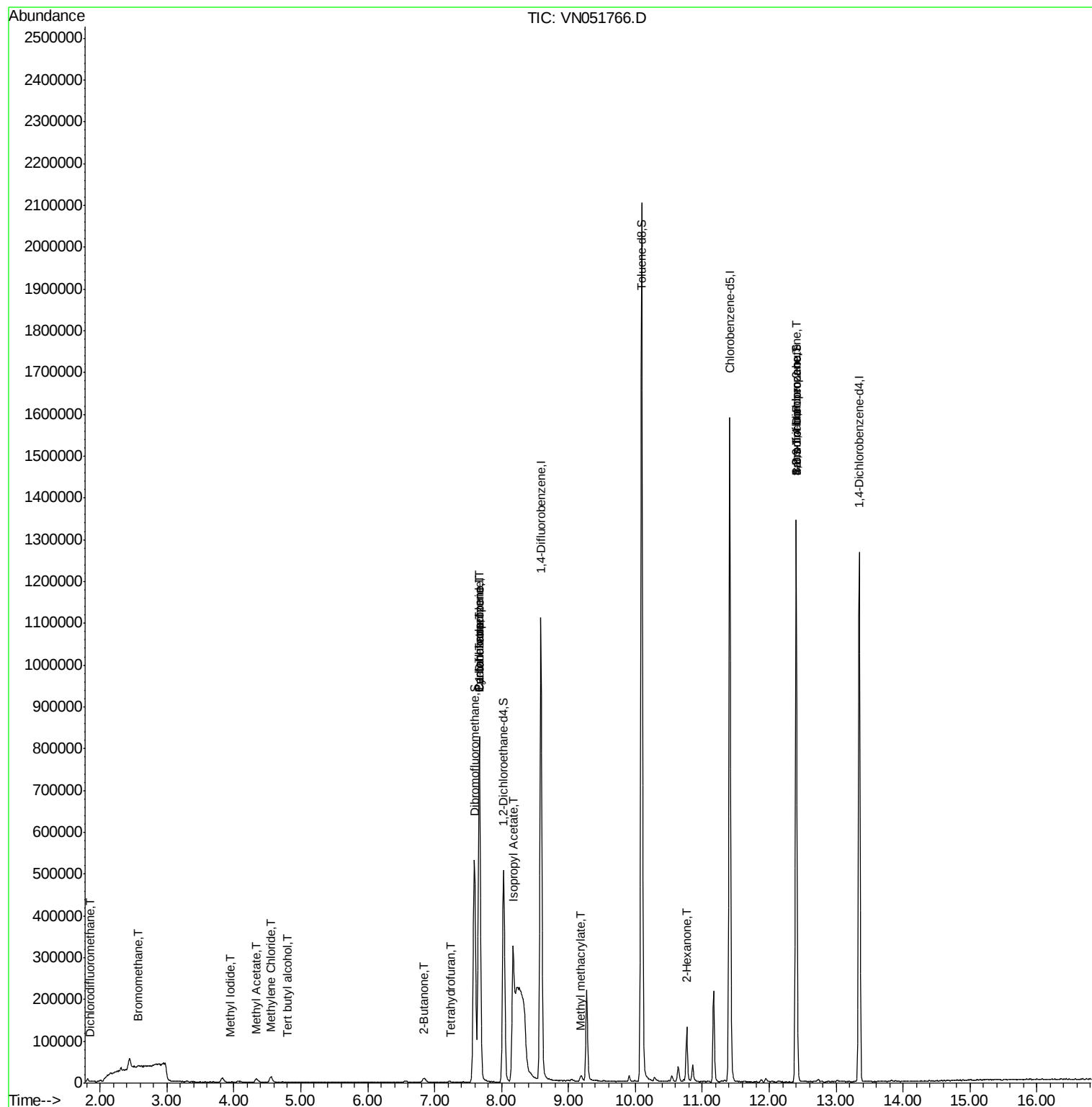
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	30	1.152	ug/l #	42
5) Bromomethane	2.57	94	2153	0.213	ug/l	97
10) Methyl Iodide	3.94	142	60	2.344	ug/l #	41
11) Tert butyl alcohol	4.80	59	621	0.948	ug/l #	73
13) Acrolein	3.60	56	30	Below Cal	#	1
16) Acetone	3.83	43	18592	Below Cal		92
18) Methyl Acetate	4.34	43	16897	3.175	ug/l	96
20) Methylene Chloride	4.55	84	9202	1.160	ug/l	96
25) 2-Butanone	6.84	43	3712	1.333	ug/l #	77
29) Tetrahydrofuran	7.22	42	1845	1.080	ug/l #	66
31) Cyclohexane	7.67	56	13845	1.058	ug/l #	32
36) 1,1-Dichloropropene	7.67	75	47694	4.309	ug/l #	49
38) Carbon Tetrachloride	7.67	117	66249	4.988	ug/l #	15
41) Methacrylonitrile	7.17	41	278	Below Cal	#	38
43) Isopropyl Acetate	8.17	43	438779	36.455	ug/l #	87
48) Methyl methacrylate	9.18	41	7246	1.317	ug/l #	20
59) 2-Hexanone	10.77	43	21201	5.118	ug/l #	53
71) Bromoform	12.40	173	3506	0.501	ug/l #	1
74) N-amyl acetate	12.06	43	78	Below Cal	#	22
75) 1,1,2,2-Tetrachloroethane	12.41	83	316	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	223214	50.835	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	223214	115.951	ug/l #	14

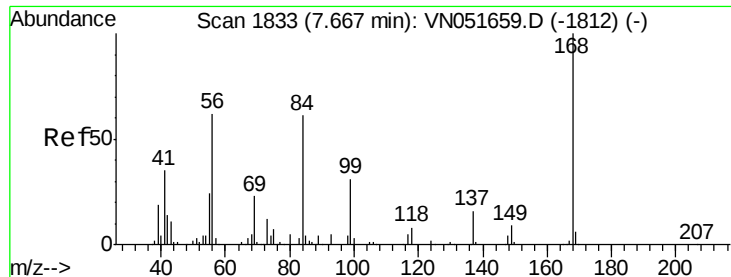
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 09 06:03:49 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

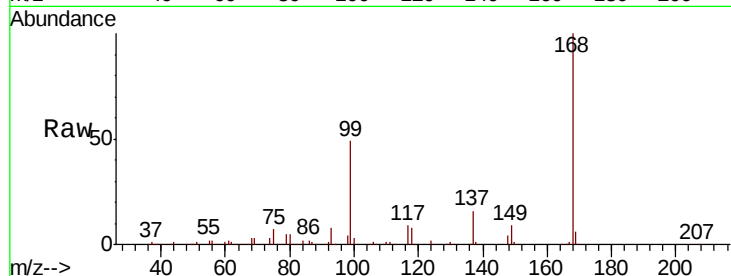
PB113645ZHE#06

Tot Ion:168 Resp: 729959

Ion Ratio Lower Upper

168 100

99 48.8 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

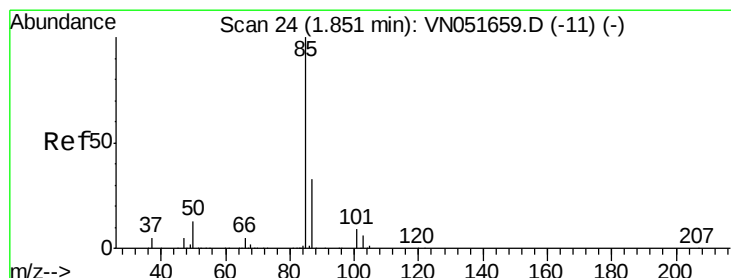
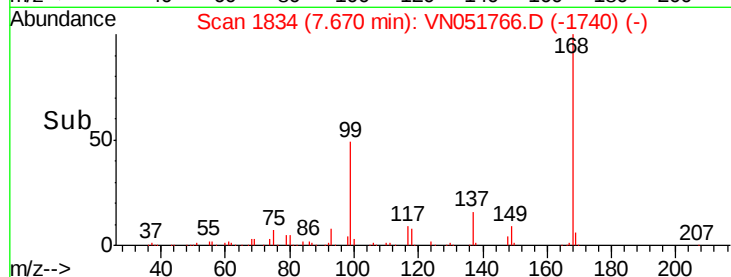
200000

100000

0

Time-->

7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 1.152 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051766.D

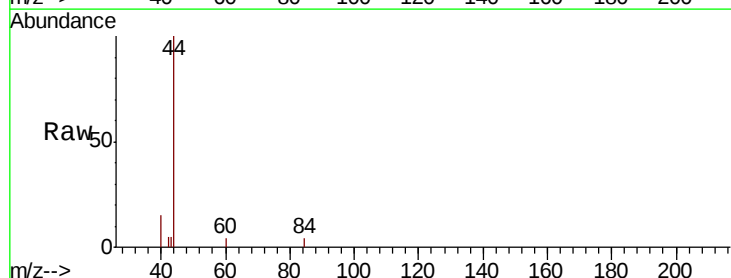
Acq: 9 Oct 2018 22:40

Tgt Ion: 85 Resp: 30

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

150

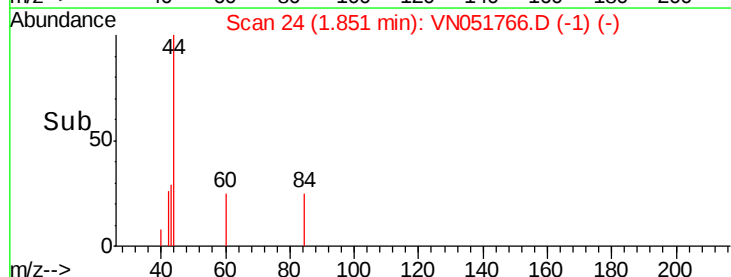
100

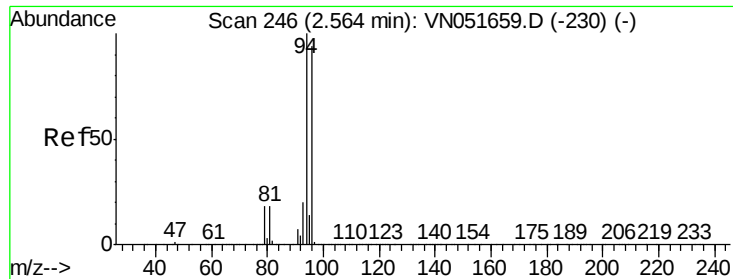
50

0

Time-->

1.84 1.85 1.86 1.86





#5

Bromomethane

Concen: 0.213 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

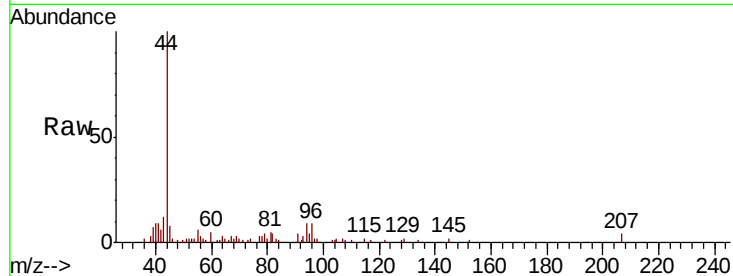
PB113645ZHE#06

Tot Ion: 94 Resp: 2153

Ion Ratio Lower Upper

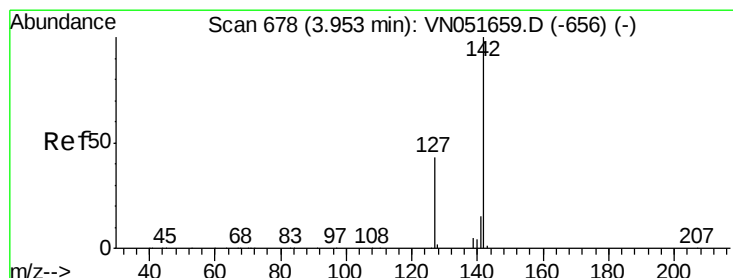
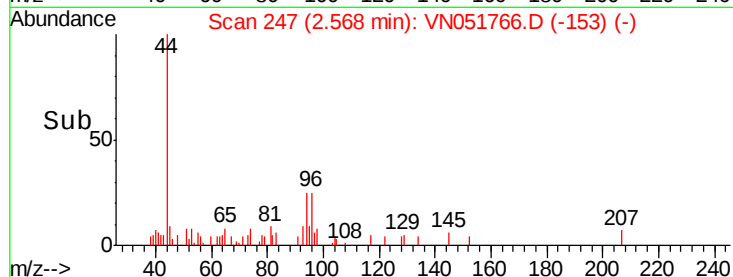
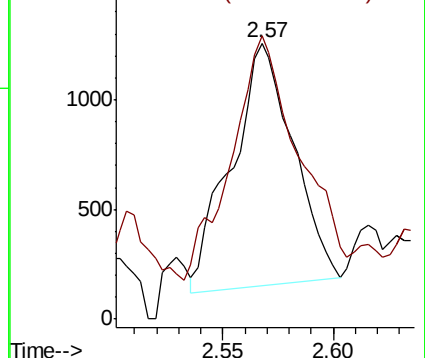
94 100

96 97.2 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VN051766.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051766.D (-153) (-)



#10

Methyl Iodide

Concen: 2.344 ug/l

RT: 3.94 min Scan# 675

Delta R.T. -0.01 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

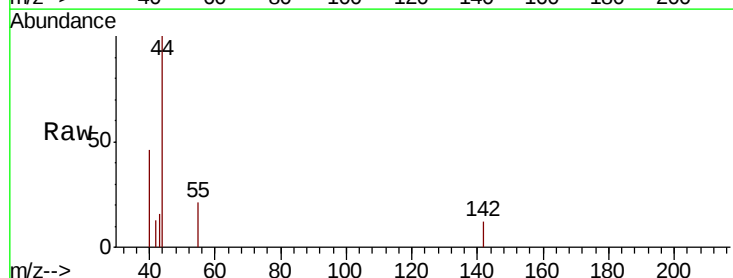
Tgt Ion: 142 Resp: 60

Ion Ratio Lower Upper

142 100

127 0.0 34.7 52.1#

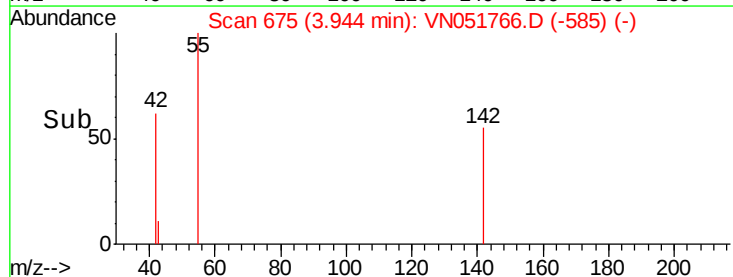
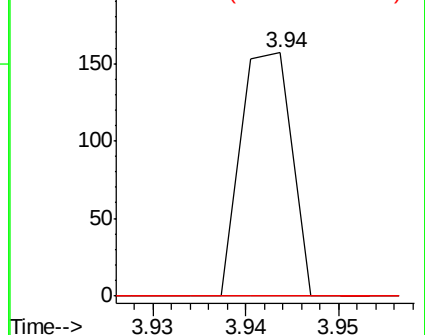
141 0.0 11.4 17.2#

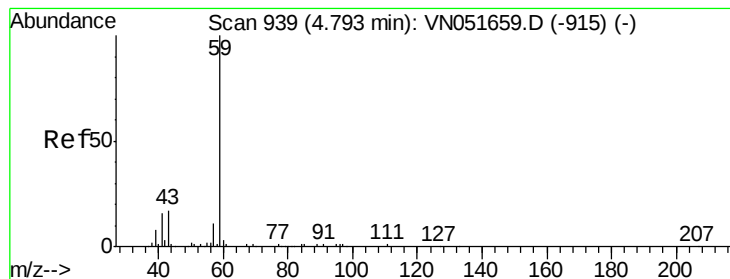


Abundance Ion 141.80 (141.50 to 142.50): VN051766.D (-585) (-)

Ion 126.80 (126.50 to 127.50): VN051766.D (-585) (-)

Ion 140.80 (140.50 to 141.50): VN051766.D (-585) (-)



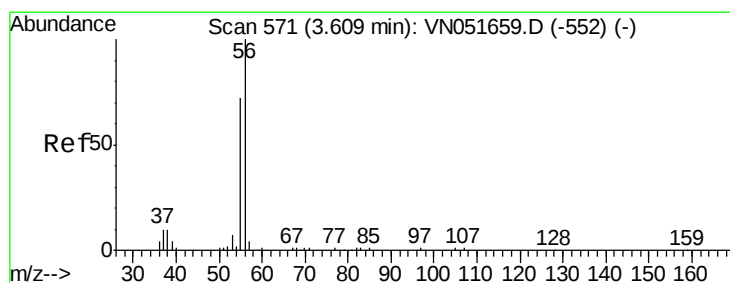
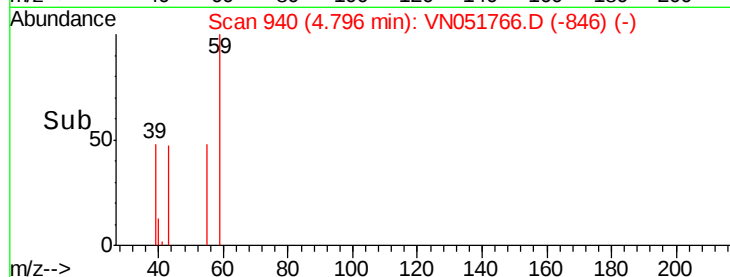
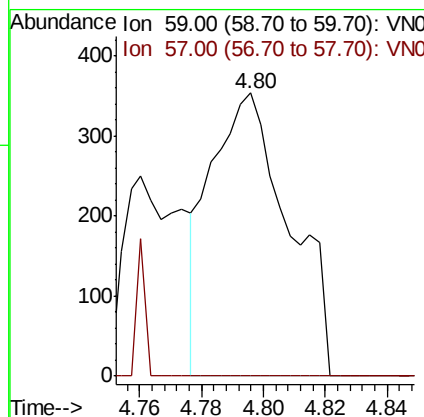
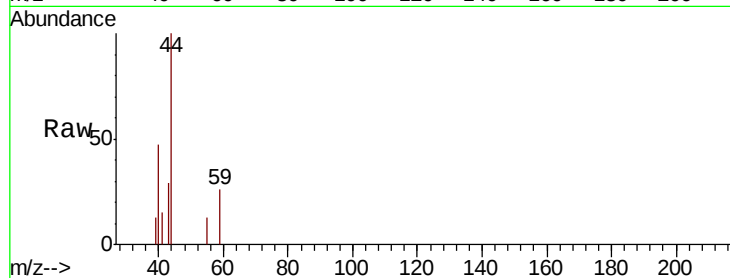


#11

Tert butyl alcohol
 Concen: 0.948 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.00 min
 Lab File: VN051766.D
 Acq: 9 Oct 2018 22:40

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#06

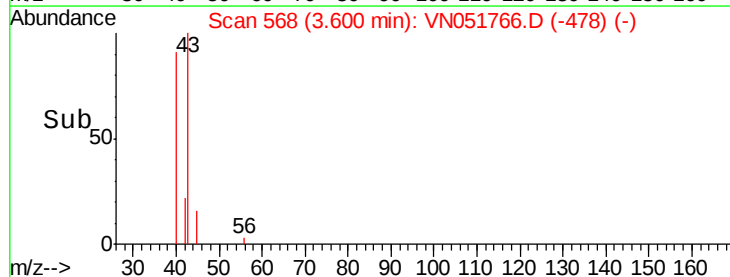
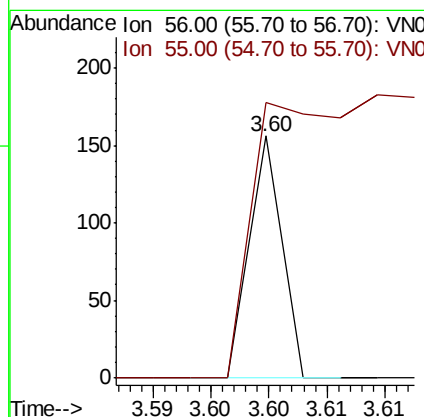
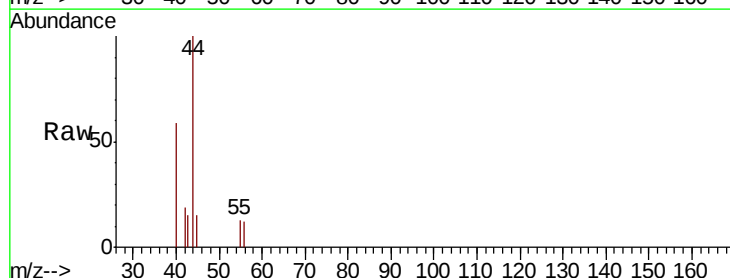
Tot Ion: 59 Resp: 621
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

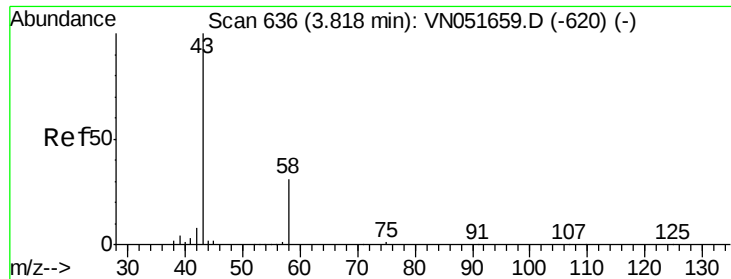


#13

Acrolein
 Concen: Below Cal
 RT: 3.60 min Scan# 568
 Delta R.T. -0.01 min
 Lab File: VN051766.D
 Acq: 9 Oct 2018 22:40

Tgt Ion: 56 Resp: 30
 Ion Ratio Lower Upper
 56 100
 55 1023.3 57.5 86.3#





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

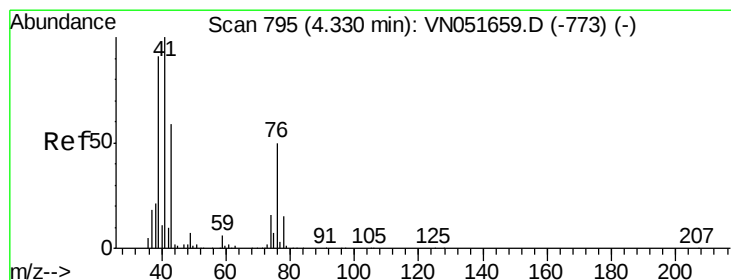
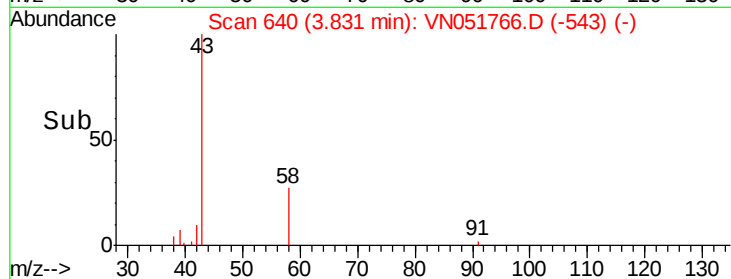
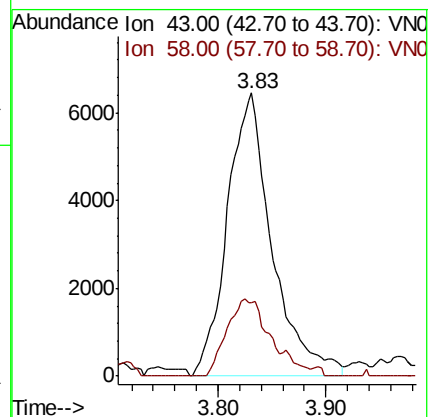
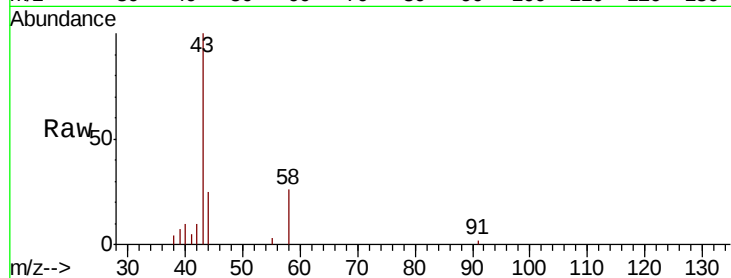
PB113645ZHE#06

Tot Ion: 43 Resp: 18592

Ion Ratio Lower Upper

43 100

58 26.2 24.3 36.5



#18

Methyl Acetate

Concen: 3.175 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051766.D

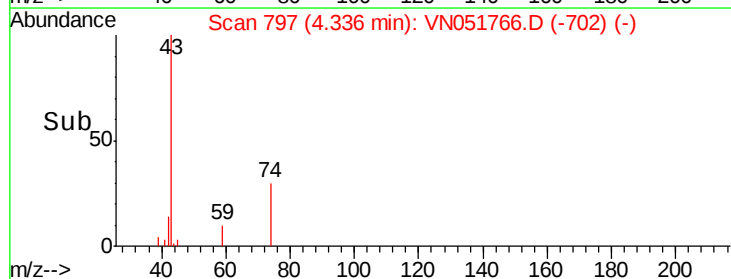
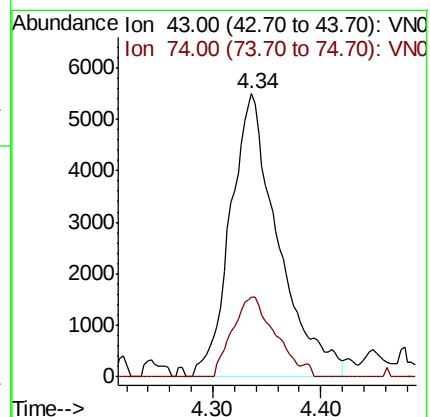
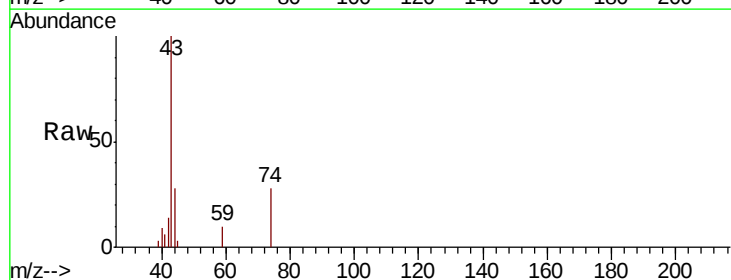
Acq: 9 Oct 2018 22:40

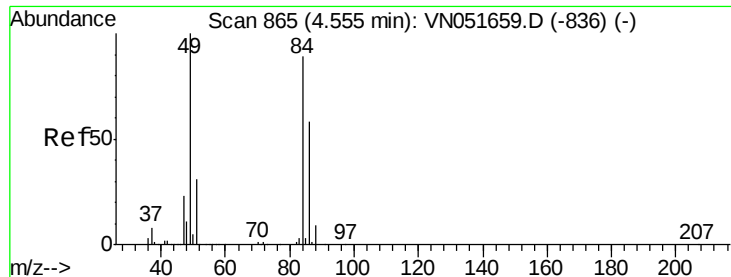
Tgt Ion: 43 Resp: 16897

Ion Ratio Lower Upper

43 100

74 24.9 21.5 32.3

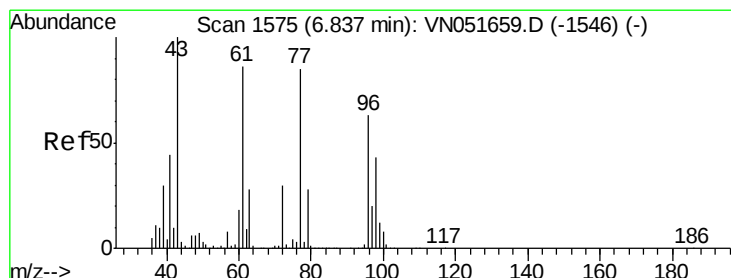
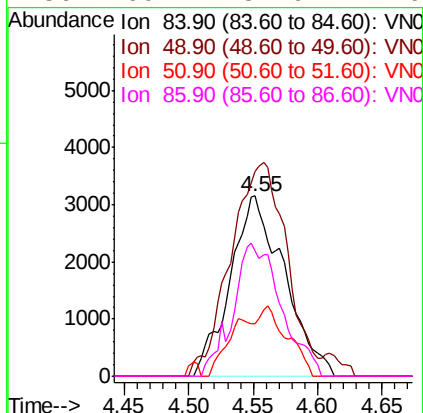
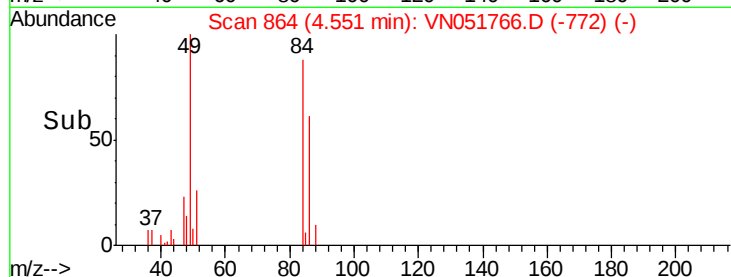
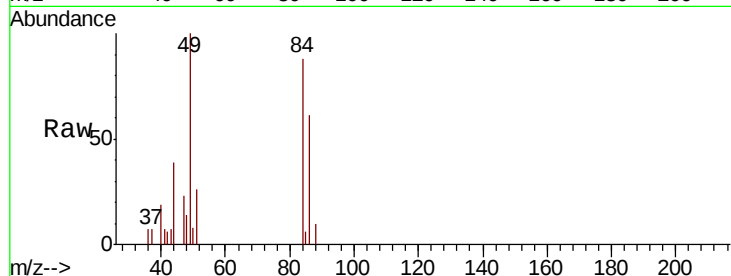




#20
Methvlene Chloride
Concen: 1.160 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051766.D
Acq: 9 Oct 2018 22:40

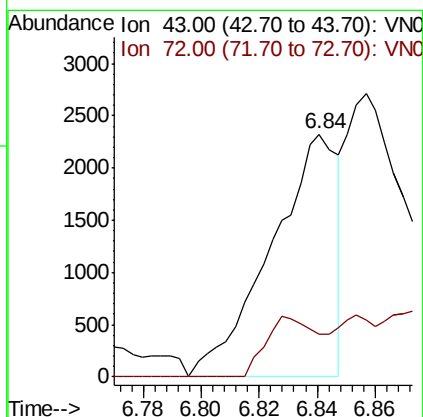
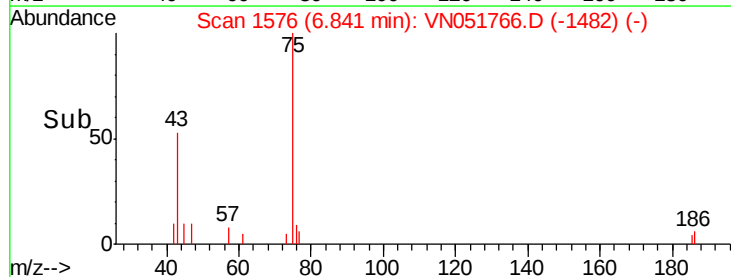
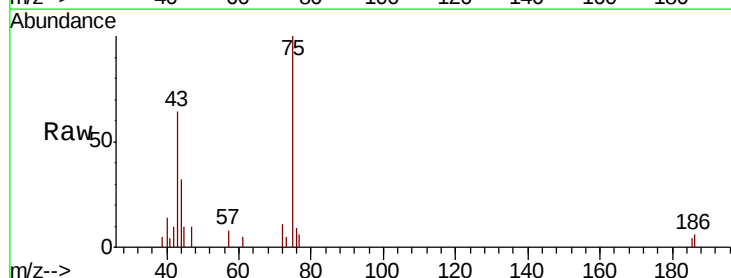
Instrument :
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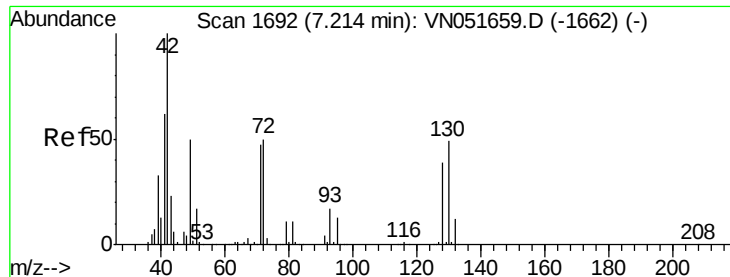
Tot Ion: 84 Resp: 9202
Ion Ratio Lower Upper
84 100
49 114.2 89.5 134.3
51 29.5 27.4 41.0
86 69.7 51.9 77.9



#25
2-Butanone
Concen: 1.333 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051766.D
Acq: 9 Oct 2018 22:40

Tgt Ion: 43 Resp: 3712
Ion Ratio Lower Upper
43 100
72 17.8 24.2 36.2#





#29

Tetrahydrofuran

Concen: 1.080 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#06

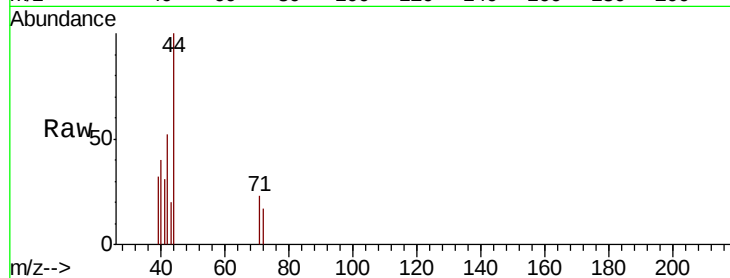
Tot Ion: 42 Resp: 1845

Ion Ratio Lower Upper

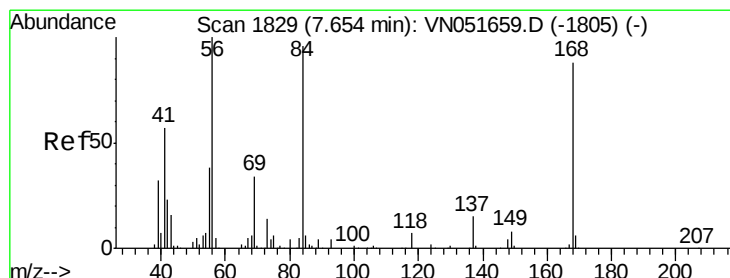
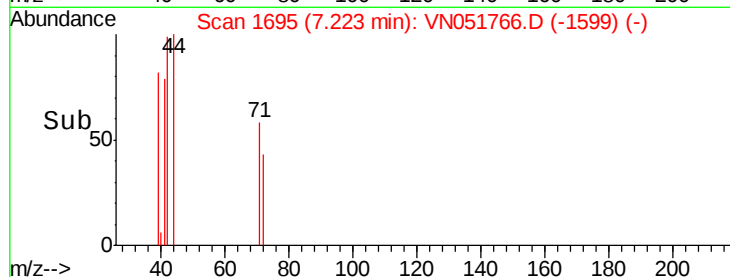
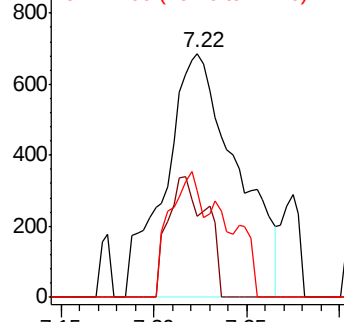
42 100

72 26.6 40.1 60.1#

71 25.1 38.0 57.0#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 1.058 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

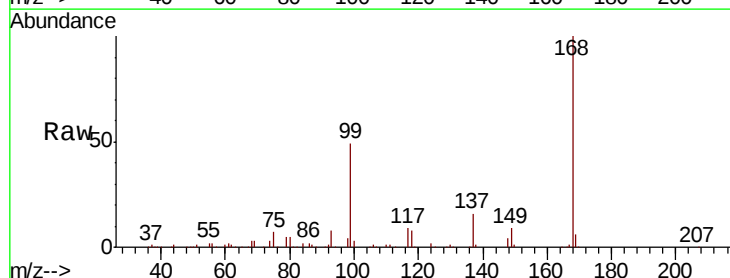
Tgt Ion: 56 Resp: 13845

Ion Ratio Lower Upper

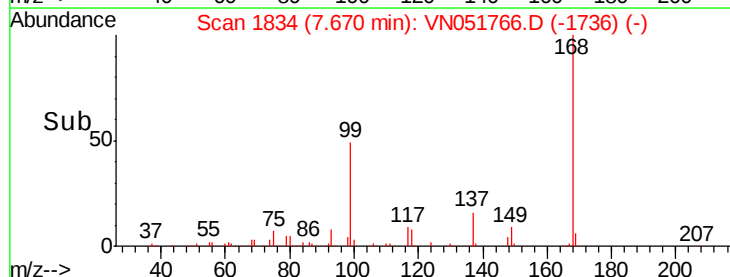
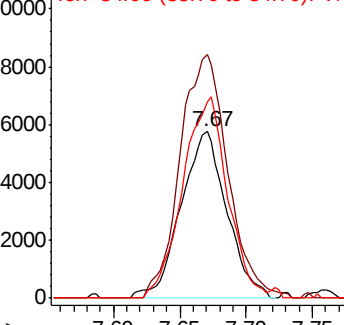
56 100

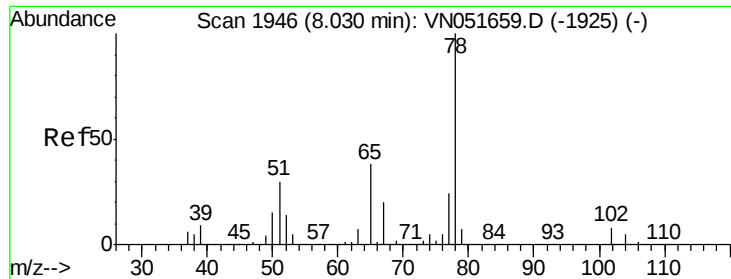
69 146.5 27.5 41.3#

84 118.0 76.7 115.1#



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

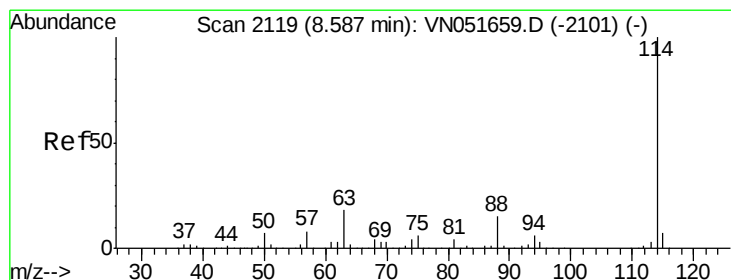
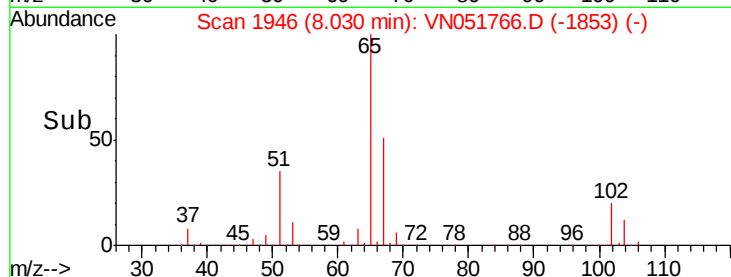
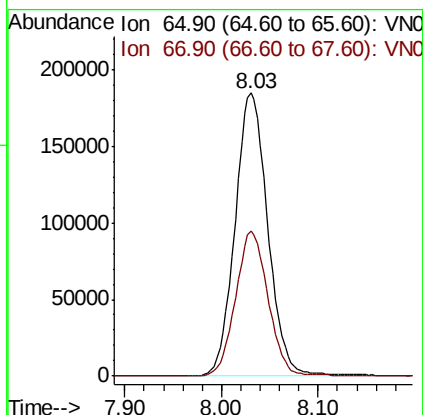
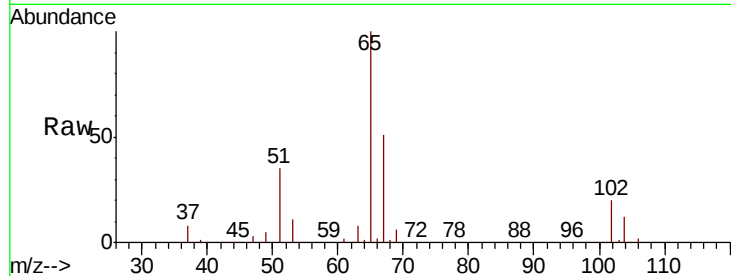




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051766.D
 Acq: 9 Oct 2018 22:40

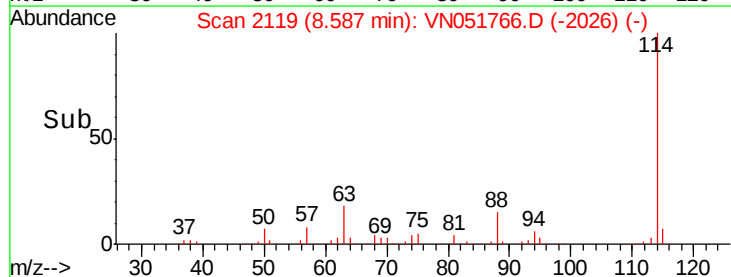
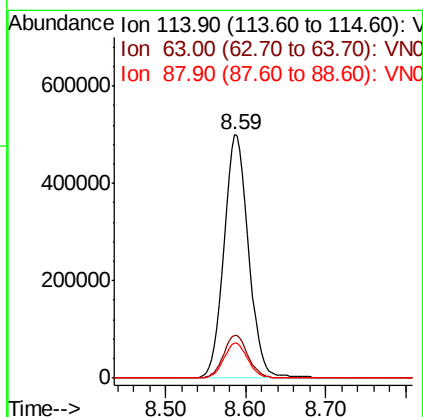
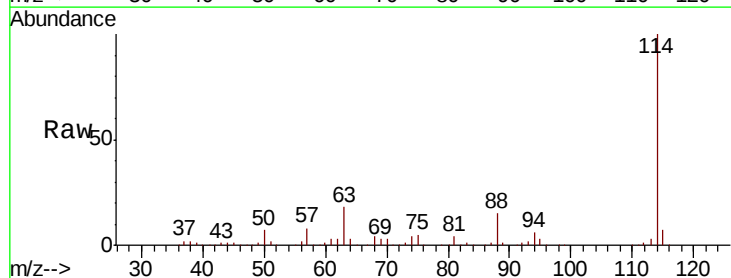
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#06

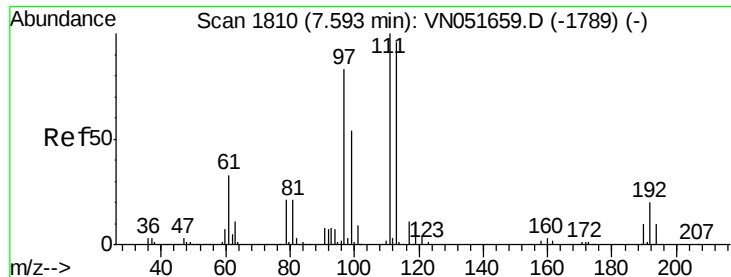
Tot Ion: 65 Resp: 433394
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051766.D
 Acq: 9 Oct 2018 22:40

Tgt Ion: 114 Resp: 1058977
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 36.2
 88 14.5 0.0 30.2

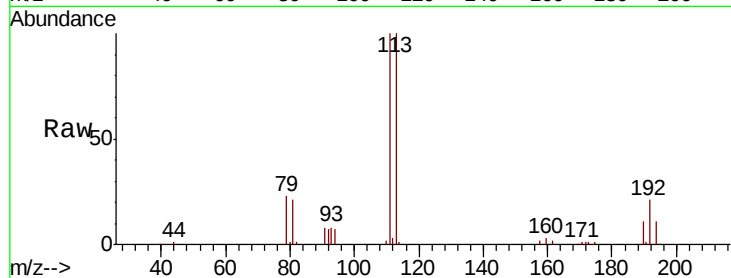




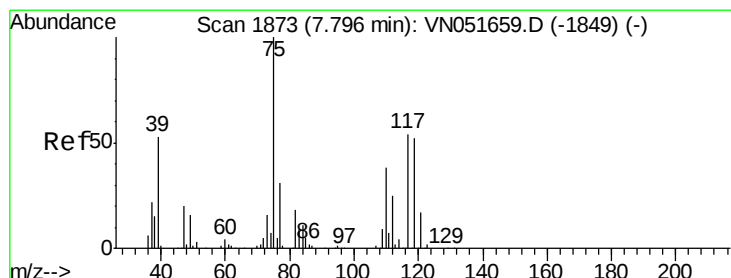
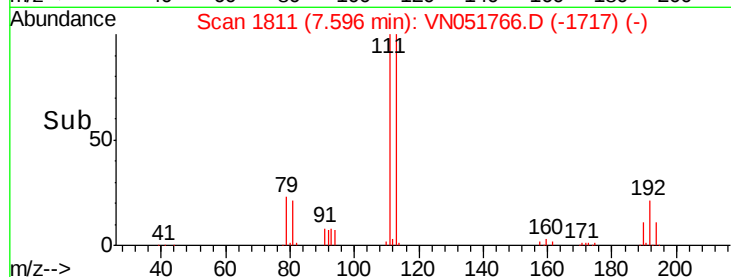
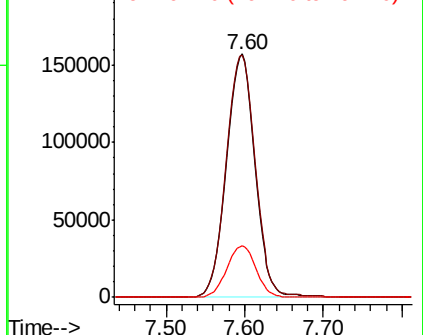
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.60 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VN051766.D
 Acq: 9 Oct 2018 22:40

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#06

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.8	122.8
192	21.5	16.5	24.7

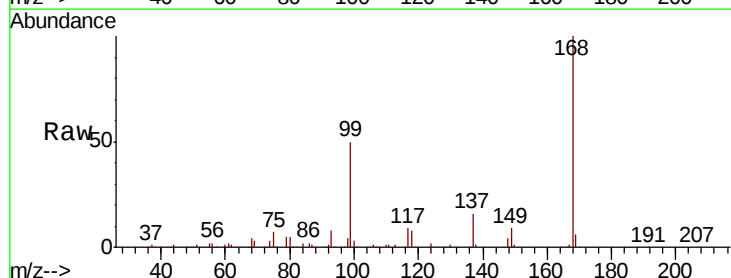


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

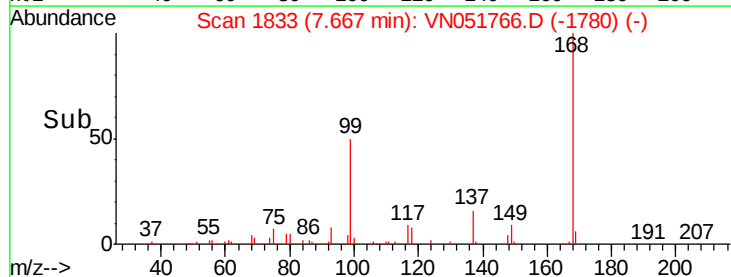
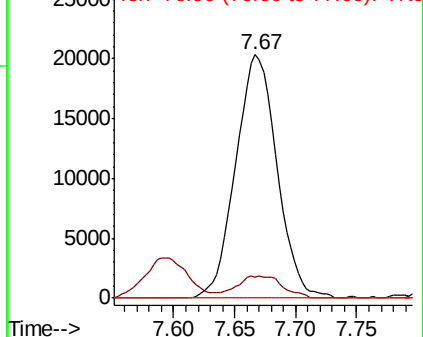


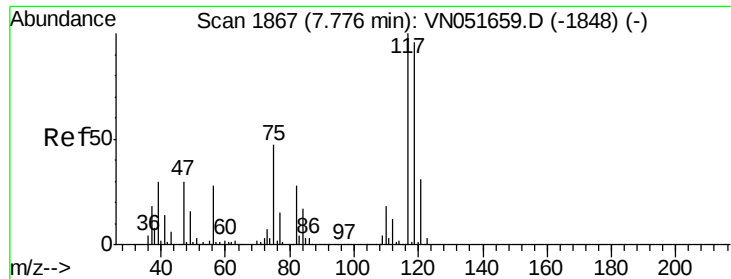
#36
 1,1-Dichloropropene
 Concen: 4.309 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051766.D
 Acq: 9 Oct 2018 22:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	19.3	57.8#
77	0.0	24.7	37.1#



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





#38

Carbon Tetrachloride

Concen: 4.988 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#06

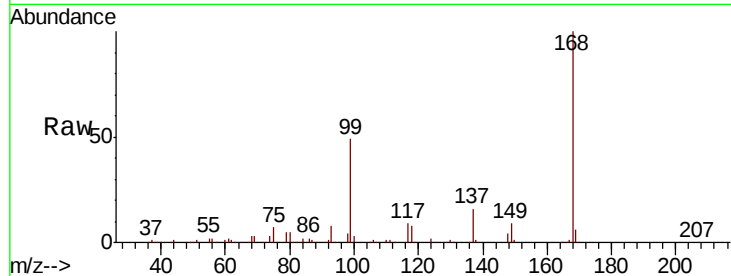
Tot Ion:117 Resp: 66249

Ion Ratio Lower Upper

117 100

119 4.2 77.0 115.6#

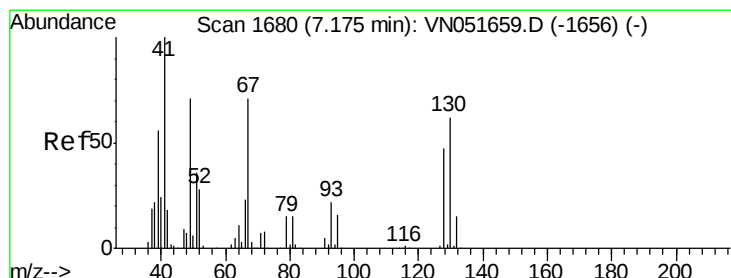
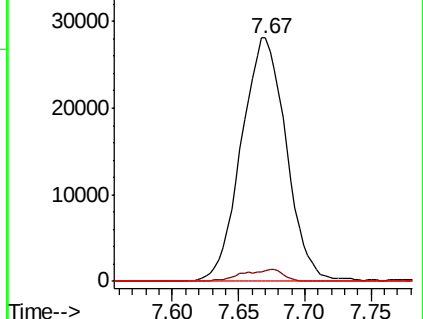
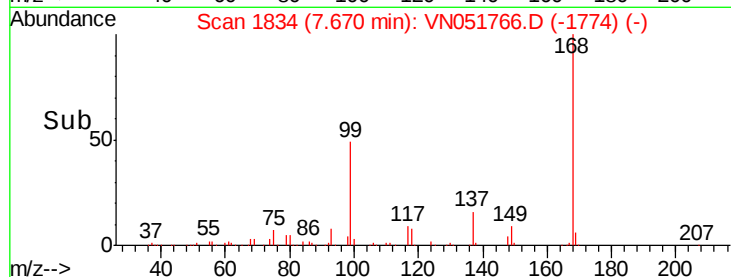
121 0.0 25.0 37.6#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 7.17 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Tgt Ion: 41 Resp: 278

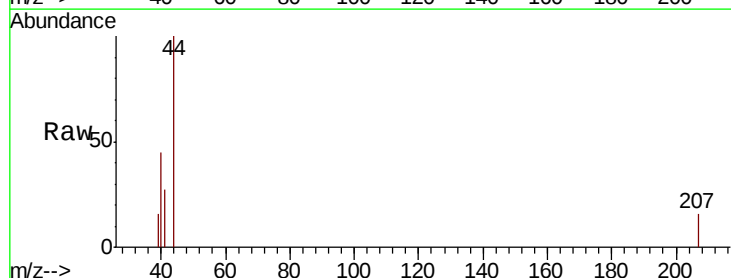
Ion Ratio Lower Upper

41 100

39 62.9 53.9 80.9

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#

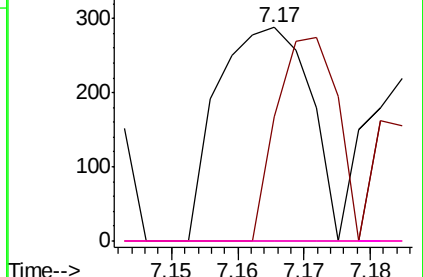
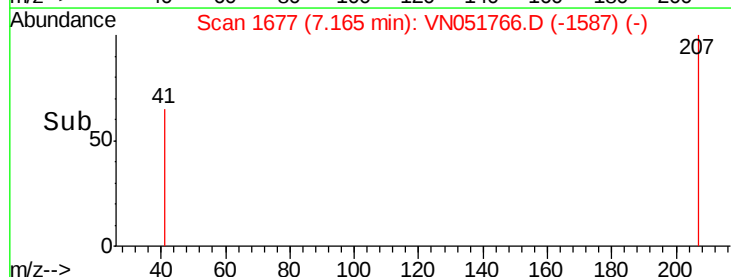


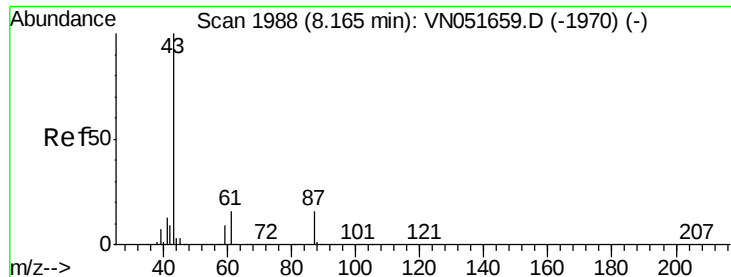
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 36.455 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#06

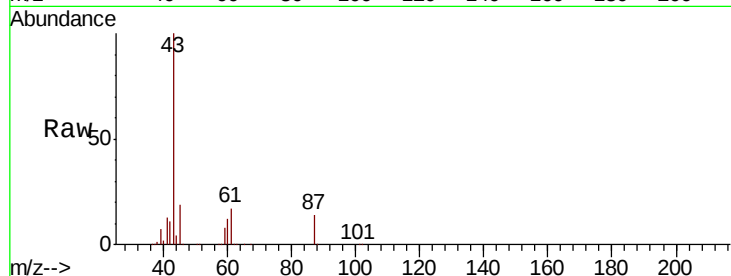
Tot Ion: 43 Resp: 438779

Ion Ratio Lower Upper

43 100

61 13.8 15.8 23.6#

87 10.4 12.6 19.0#

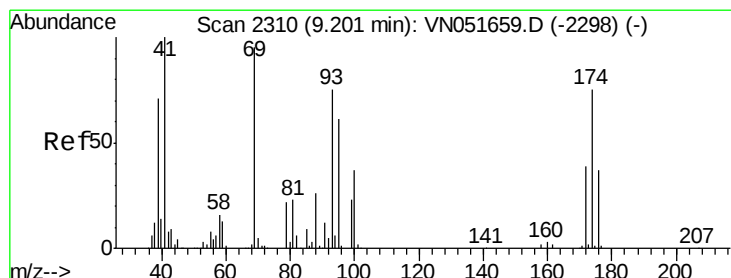
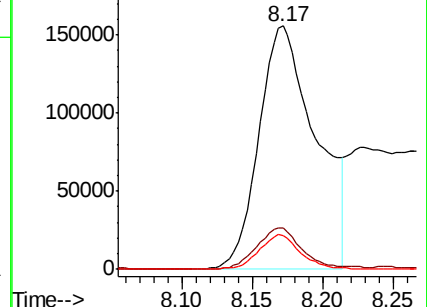
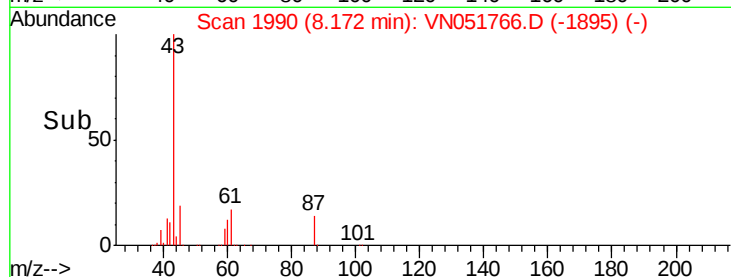


Abundance Ion 43.00 (42.70 to 43.70): VN051766.D (-2217) (-)

Ion 61.00 (60.70 to 61.70): VN051766.D (-2217) (-)

Ion 87.00 (86.70 to 87.70): VN051766.D (-2217) (-)

Time-->



#48

Methyl methacrylate

Concen: 1.317 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

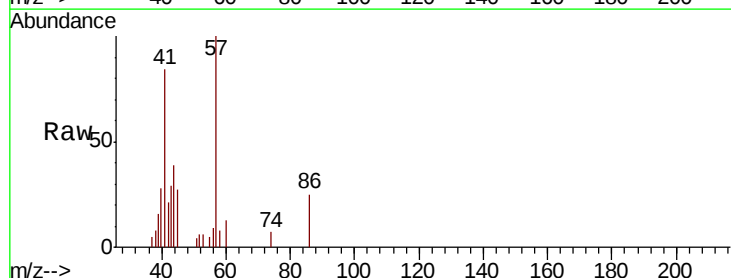
Tgt Ion: 41 Resp: 7246

Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

39 27.4 59.2 88.8#

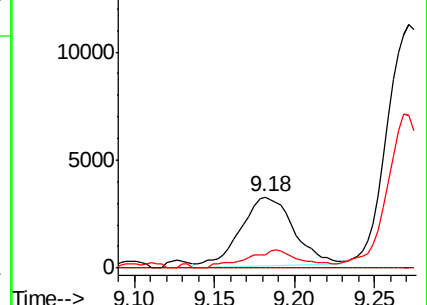
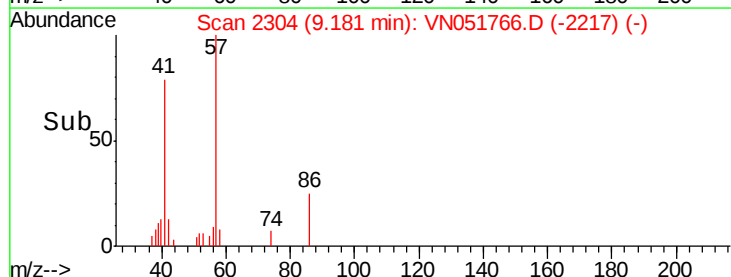


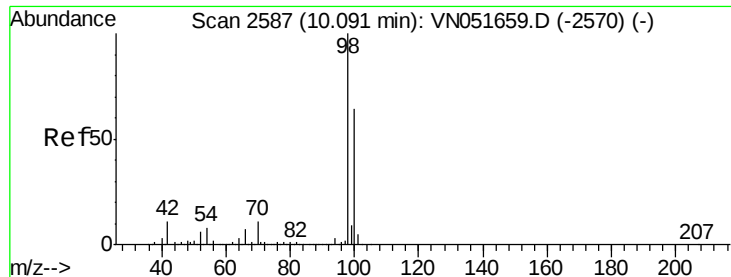
Abundance Ion 41.00 (40.70 to 41.70): VN051766.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN051766.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN051766.D (-2217) (-)

Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

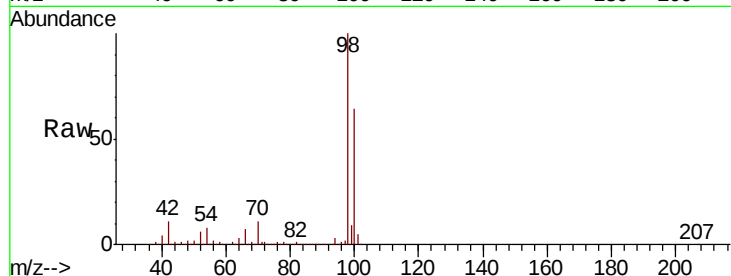
PB113645ZHE#06

Tot Ion: 98 Resp: 1515841

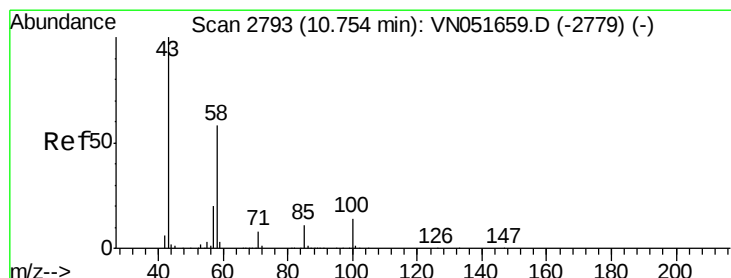
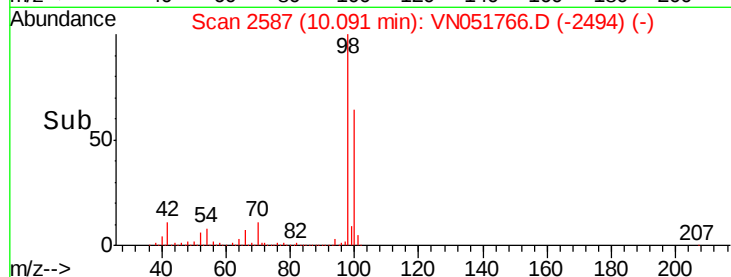
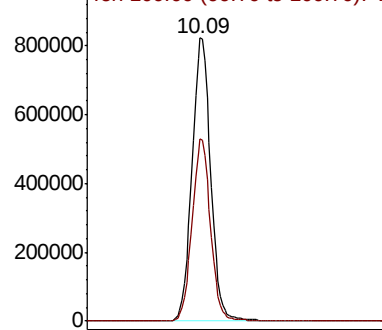
Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN051766.D (-2494) (-)



#59

2-Hexanone

Concen: 5.118 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051766.D

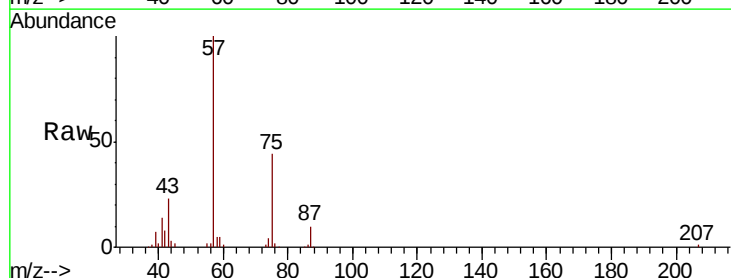
Acq: 9 Oct 2018 22:40

Tgt Ion: 43 Resp: 21201

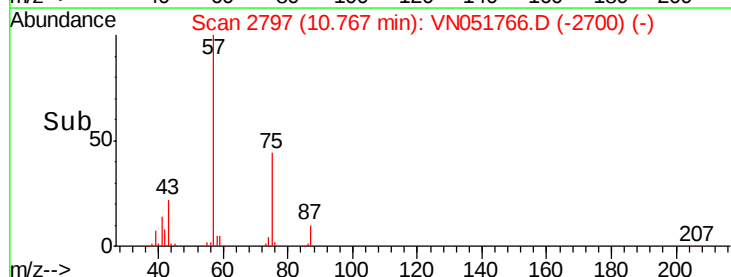
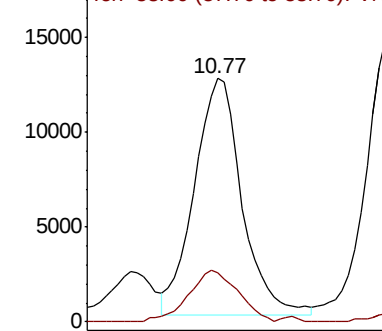
Ion Ratio Lower Upper

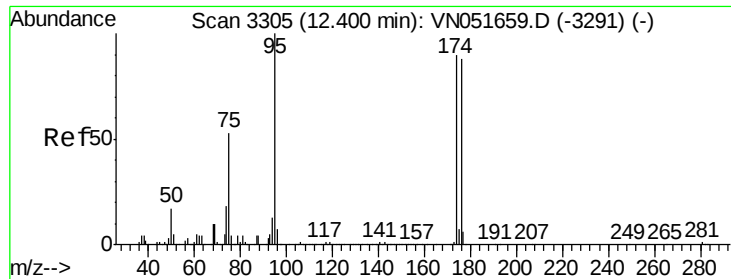
43 100

58 22.8 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VN051766.D (-2700) (-)

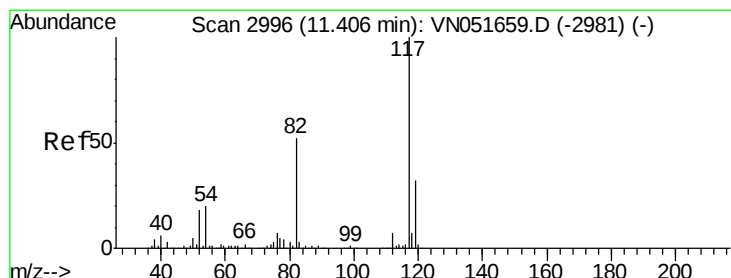
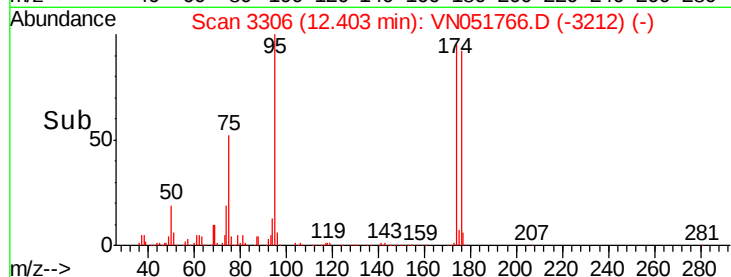
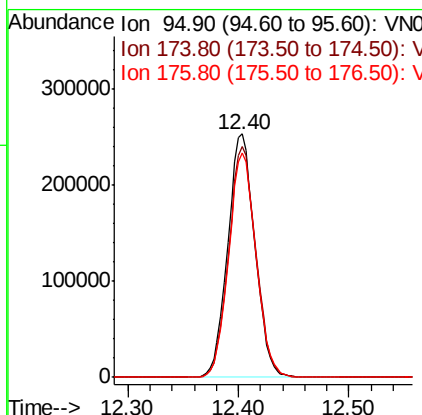
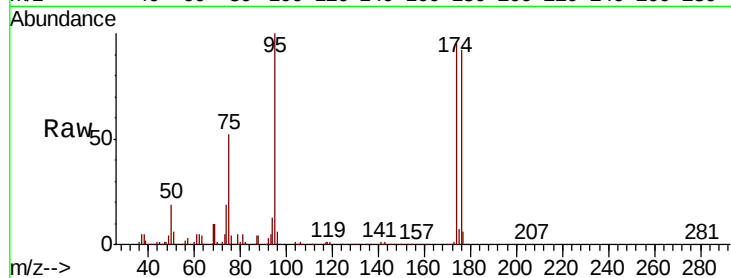




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051766.D
Acq: 9 Oct 2018 22:40

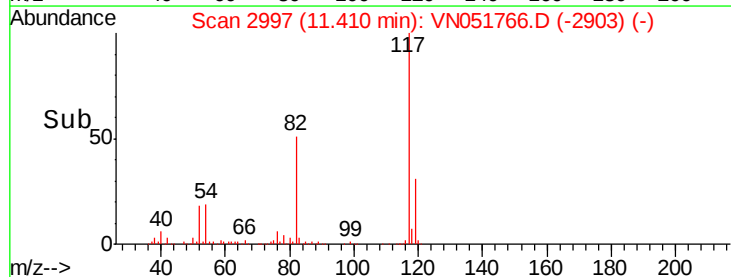
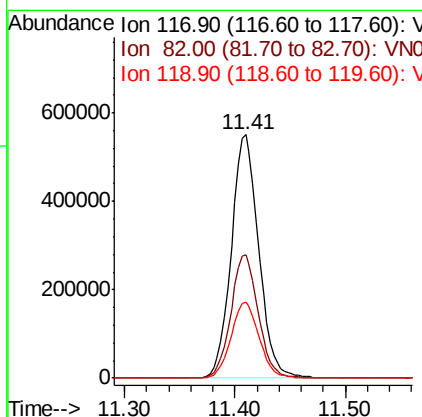
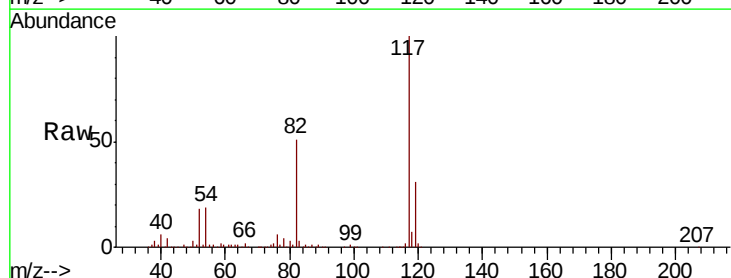
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#06

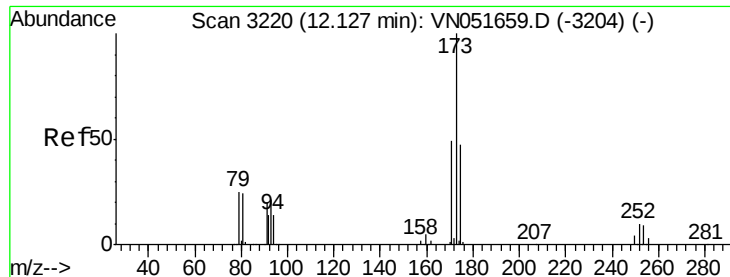
Tot Ion: 95 Resp: 432416
Ion Ratio Lower Upper
95 100
174 95.2 0.0 182.8
176 92.7 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051766.D
Acq: 9 Oct 2018 22:40

Tgt Ion: 117 Resp: 948806
Ion Ratio Lower Upper
117 100
82 50.7 41.3 61.9
119 31.4 25.9 38.9

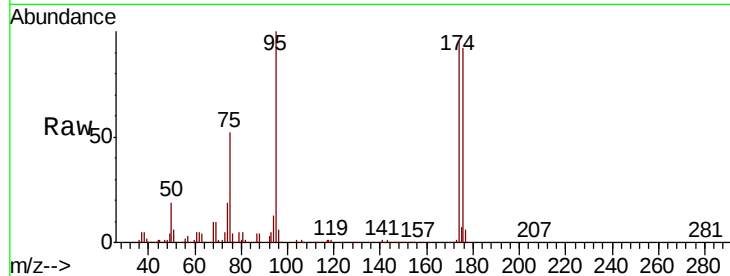




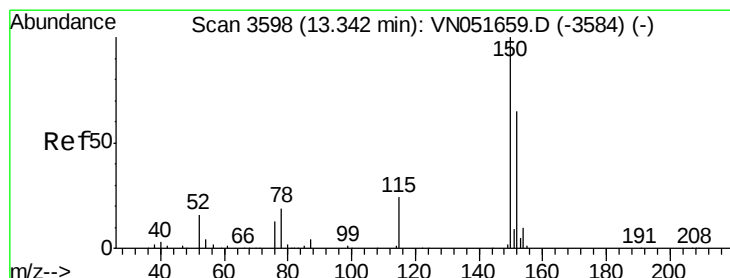
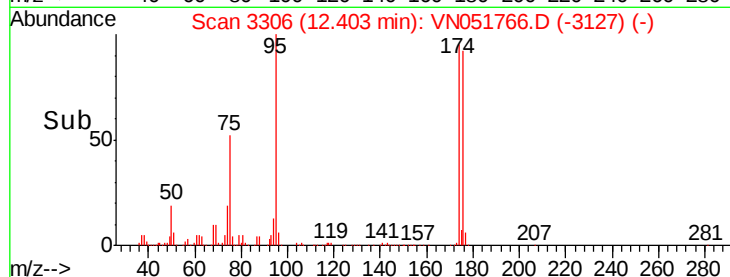
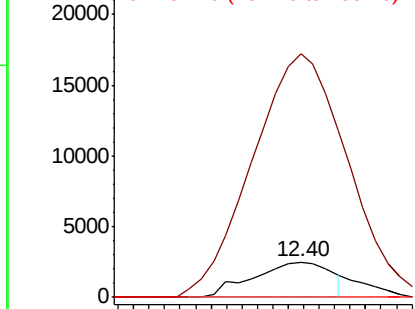
#71
Bromoform
Concen: 0.501 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051766.D
Acq: 9 Oct 2018 22:40

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#06

Tot Ion:173 Resp: 3506
Ion Ratio Lower Upper
173 100
175 703.4 24.0 72.0#
254 0.0 0.1 0.1#

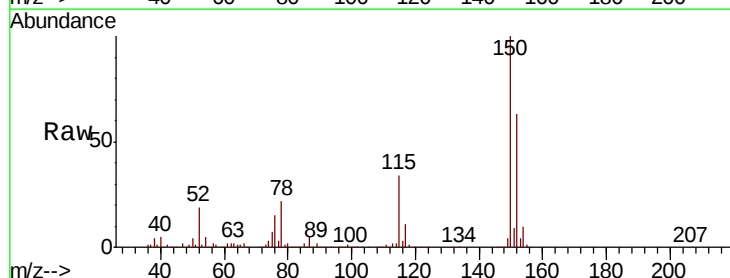


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

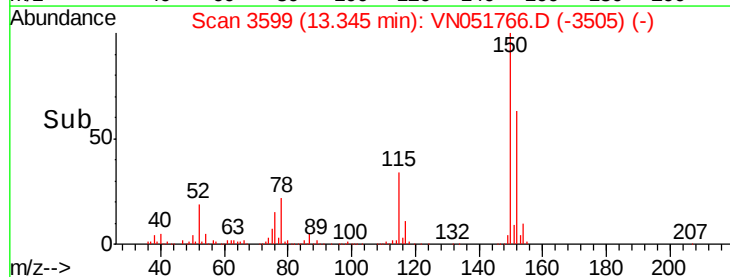
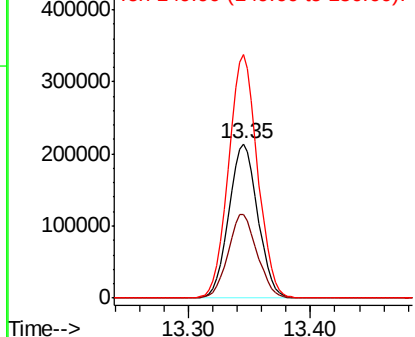


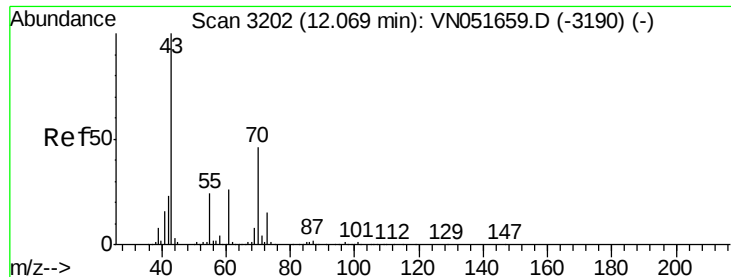
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051766.D
Acq: 9 Oct 2018 22:40

Tgt Ion:152 Resp: 353865
Ion Ratio Lower Upper
152 100
115 54.3 28.6 85.8
150 157.8 0.0 352.4



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





#74

N-amvl acetate

Concen: Below Cal

RT: 12.06 min Scan# 3198

Delta R.T. -0.01 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#06

Tot Ion: 43 Resp: 78

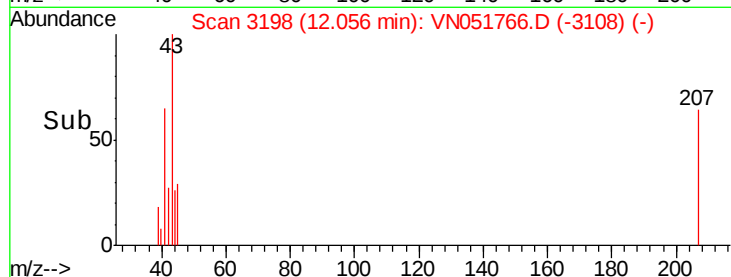
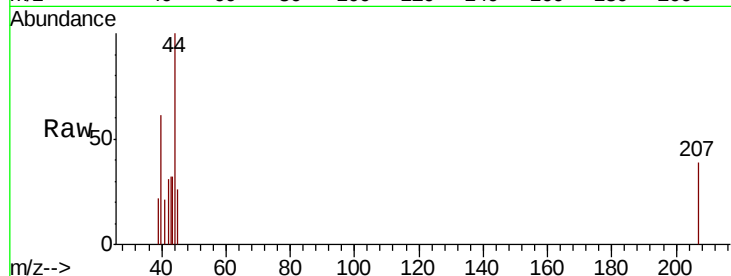
Ion Ratio Lower Upper

43 100

70 39.7 37.1 55.7

55 142.3 19.1 28.7#

61 0.0 20.8 31.2#

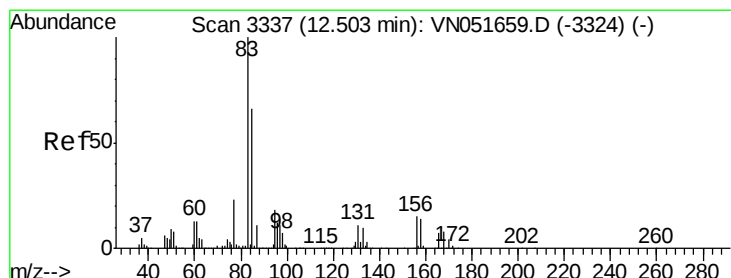
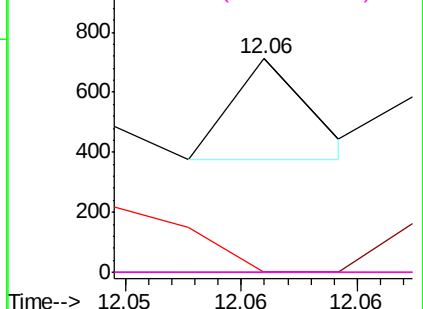


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

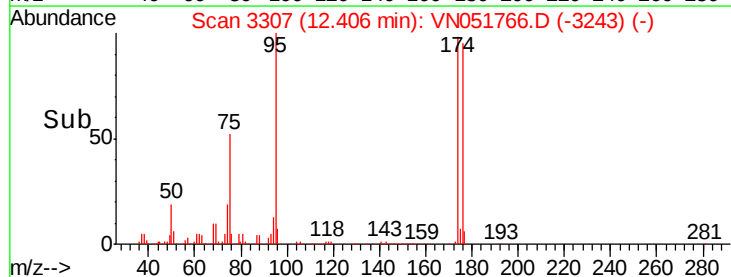
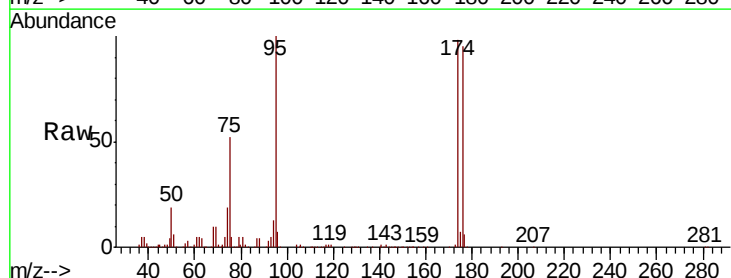
Tgt Ion: 83 Resp: 316

Ion Ratio Lower Upper

83 100

131 182.3 5.7 17.1#

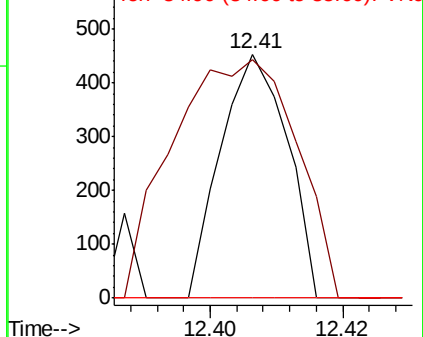
85 0.0 33.0 98.9#

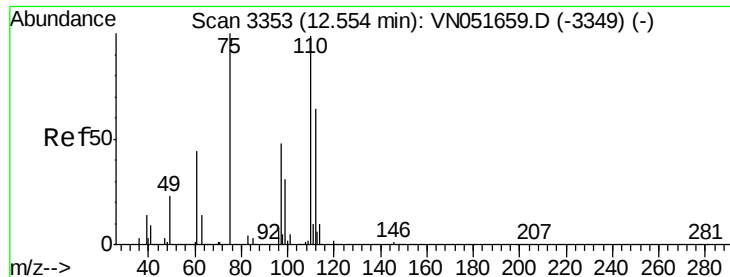


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 50.835 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

Instrument :

MSVOA_N

ClientSampleId :

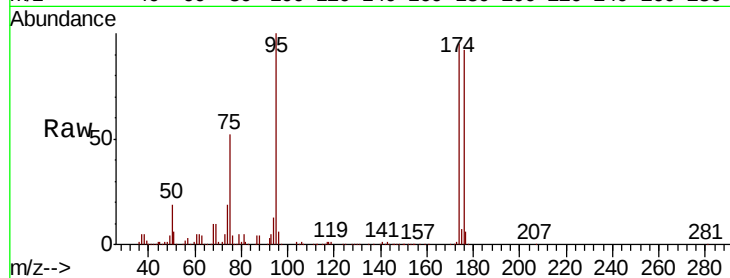
PB113645ZHE#06

Tot Ion: 75 Resp: 223214

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

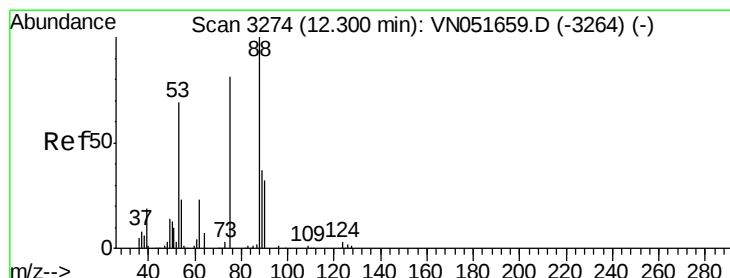
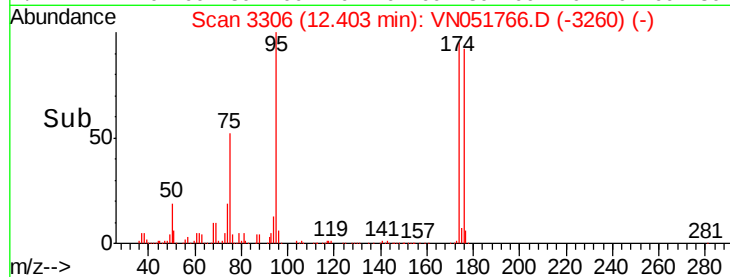
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 115.951 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051766.D

Acq: 9 Oct 2018 22:40

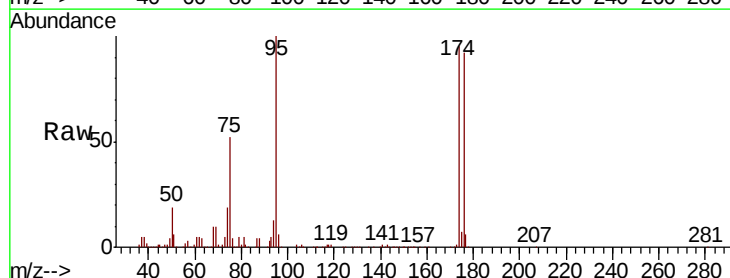
Tgt Ion: 75 Resp: 223214

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

150000

100000

50000

0

Time--> 12.30 12.40 12.50

