

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101018\
 Data File : VN051797.D
 Acq On : 10 Oct 2018 17:49
 Operator : MD\SY
 Sample : PB113684ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#08

Quant Time: Oct 11 01:59:35 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	791538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1146394	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1034063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	387884	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	460459	44.04	ug/l	0.00
Spiked Amount			Recovery	=	88.08%	
35) Dibromofluoromethane	7.60	113	426688	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	
50) Toluene-d8	10.09	98	1623385	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	12.40	95	473803	40.48	ug/l	0.00
Spiked Amount			Recovery	=	80.96%	

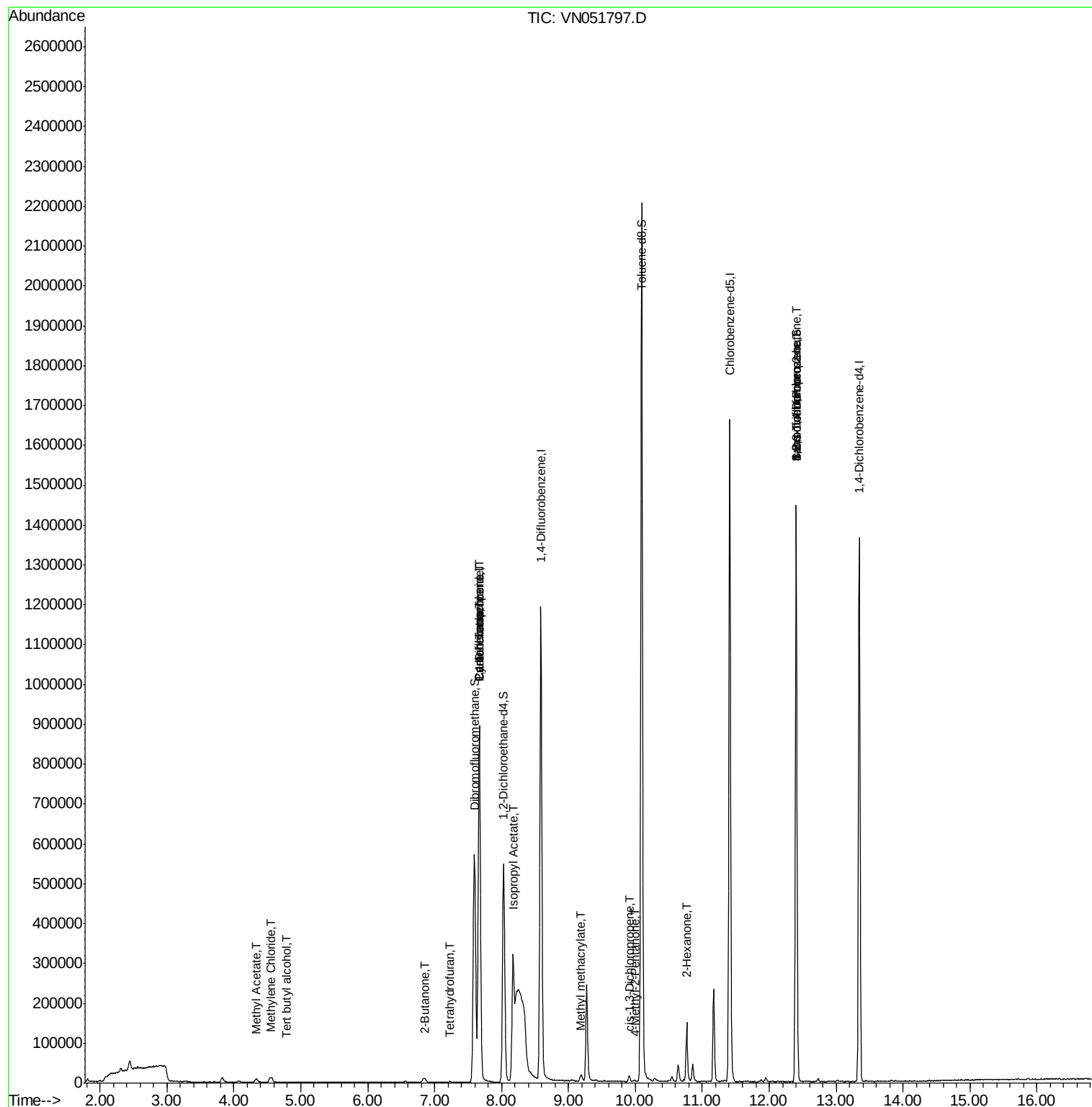
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	2.91	101	64	Below Cal	#	18
11) Tert butyl alcohol	4.78	59	334	0.470	ug/l #	73
13) Acrolein	3.64	56	159	Below Cal	#	70
16) Acetone	3.82	43	16402	Below Cal		97
18) Methyl Acetate	4.33	43	15819	2.741	ug/l	91
20) Methylene Chloride	4.55	84	10184	1.184	ug/l	94
25) 2-Butanone	6.85	43	9380	3.107	ug/l #	87
29) Tetrahydrofuran	7.23	42	1096	0.591	ug/l #	91
31) Cyclohexane	7.67	56	13113	0.924	ug/l #	28
36) 1,1-Dichloropropene	7.67	75	50871	4.245	ug/l #	49
38) Carbon Tetrachloride	7.67	117	73107	5.084	ug/l #	15
41) Methacrylonitrile	7.18	41	185	Below Cal	#	1
43) Isopropyl Acetate	8.17	43	392614	30.132	ug/l	93
48) Methyl methacrylate	9.18	41	8923	1.499	ug/l #	12
51) 4-Methyl-2-Pentanone	9.99	43	2632	0.399	ug/l #	76
54) cis-1,3-Dichloropropene	9.91	75	3135	0.213	ug/l #	72
59) 2-Hexanone	10.77	43	20399	4.549	ug/l #	56
71) Bromoform	12.40	173	3660	0.480	ug/l #	1
74) N-amyl acetate	12.08	43	169	Below Cal	#	46
75) 1,1,2,2-Tetrachloroethane	12.41	83	422	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	245092	50.930	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	245092	116.150	ug/l #	14

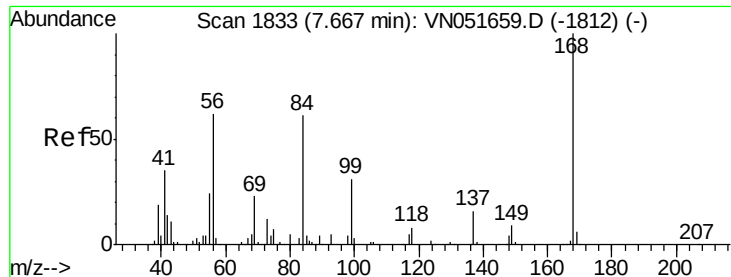
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 09 06:03:49 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

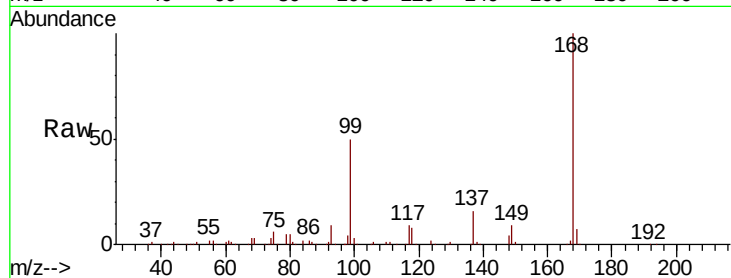
PB113684ZHE#08

Tot Ion:168 Resp: 791538

Ion Ratio Lower Upper

168 100

99 50.1 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

200000

100000

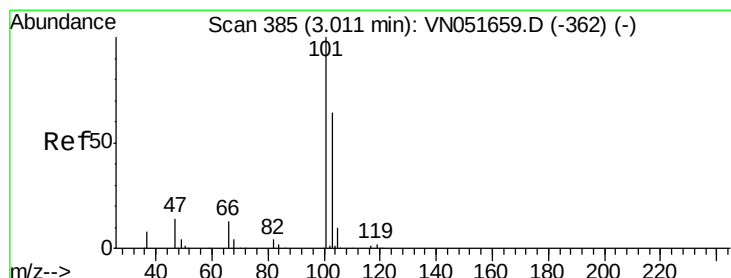
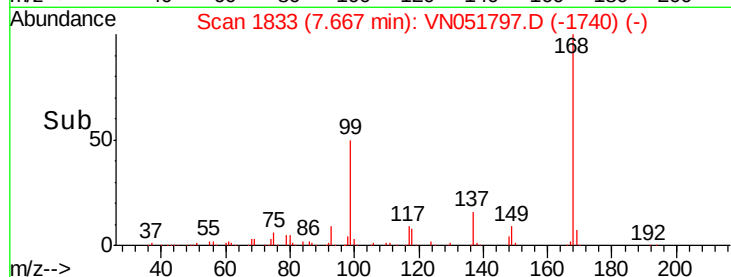
0

Time-->

7.60

7.70

7.80



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.91 min Scan# 352

Delta R.T. -0.11 min

Lab File: VN051797.D

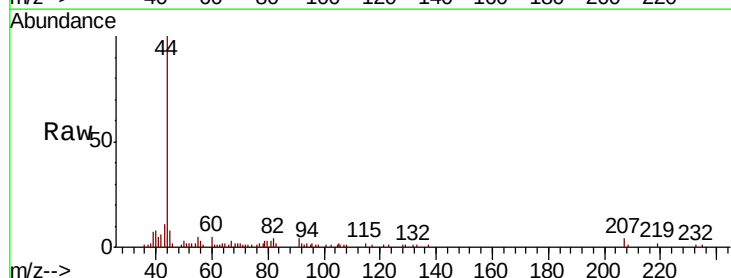
Acq: 10 Oct 2018 17:49

Tgt Ion:101 Resp: 64

Ion Ratio Lower Upper

101 100

103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

250

200

150

100

50

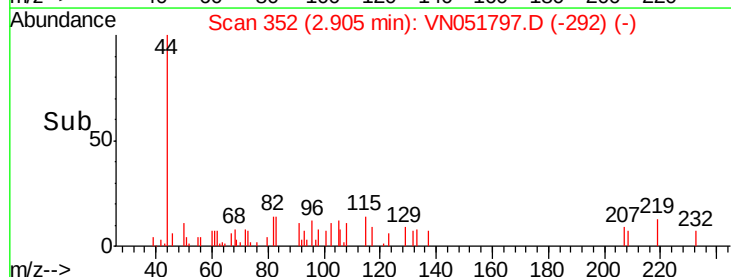
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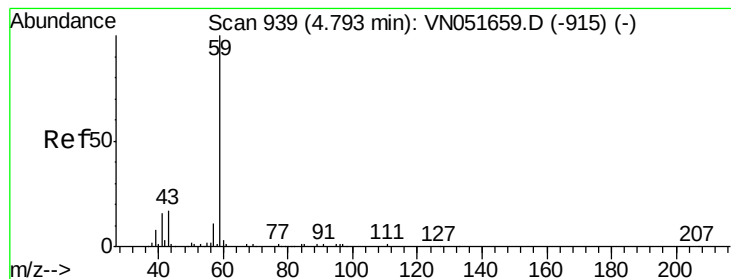
Time-->

2.89

2.90

2.91





#11

Tert butyl alcohol

Concen: 0.470 ug/l

RT: 4.78 min Scan# 936

Delta R.T. -0.01 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

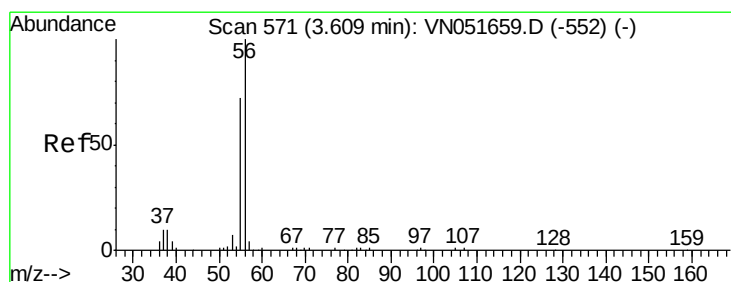
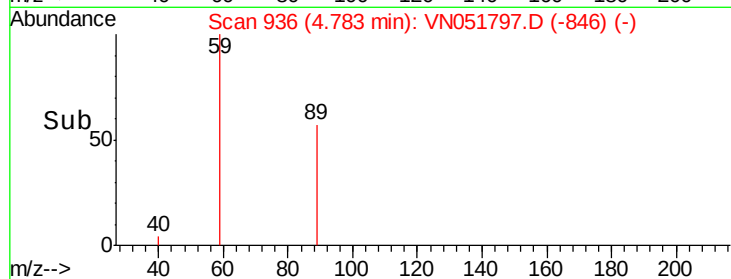
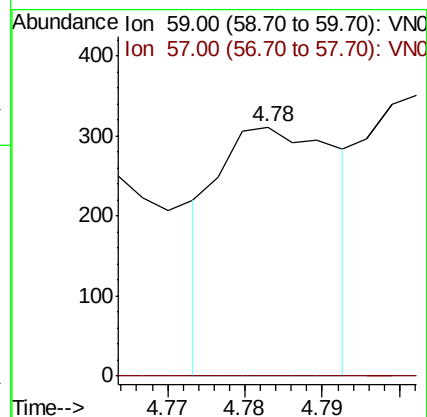
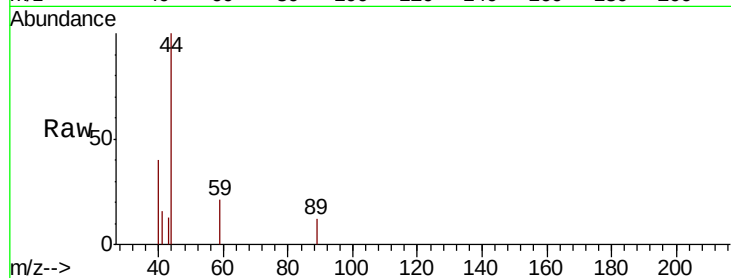
PB113684ZHE#08

Tot Ion: 59 Resp: 334

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#13

Acrolein

Concen: Below Cal

RT: 3.64 min Scan# 580

Delta R.T. 0.03 min

Lab File: VN051797.D

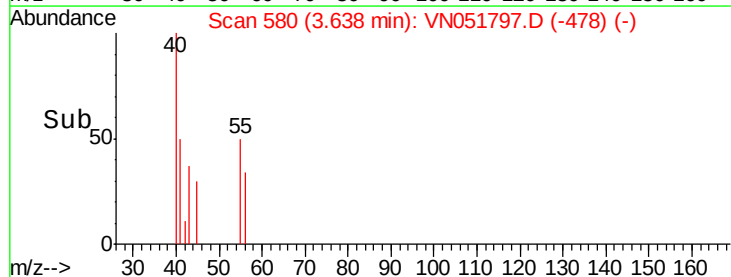
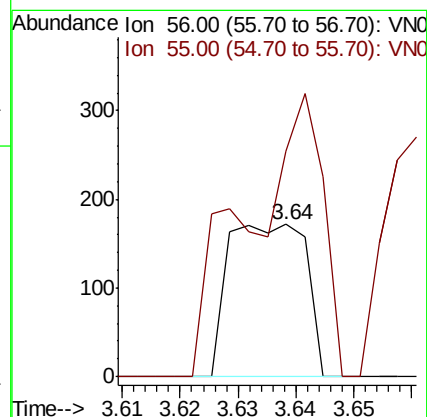
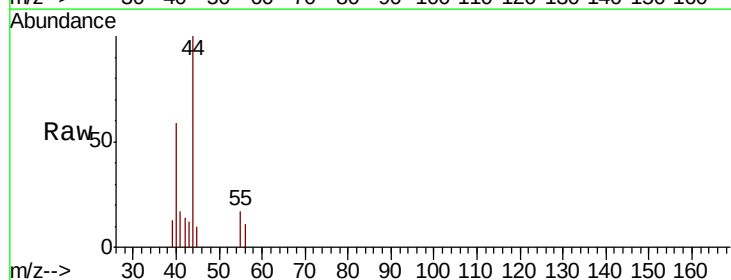
Acq: 10 Oct 2018 17:49

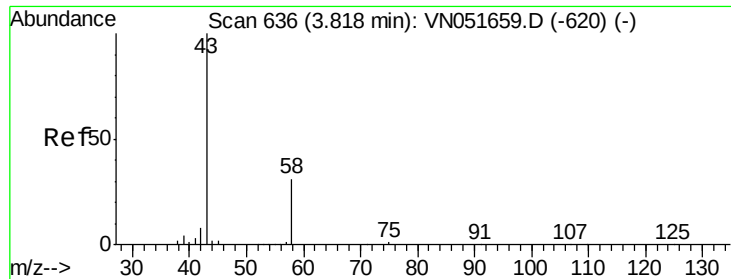
Tgt Ion: 56 Resp: 159

Ion Ratio Lower Upper

56 100

55 96.9 57.5 86.3#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

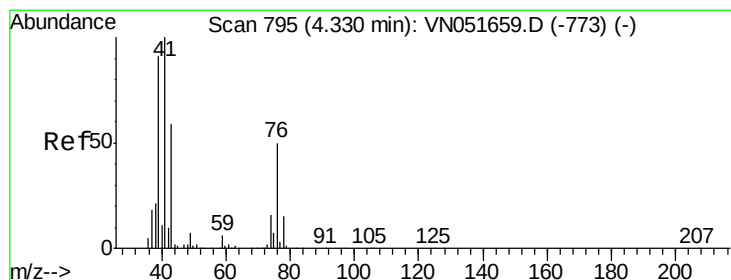
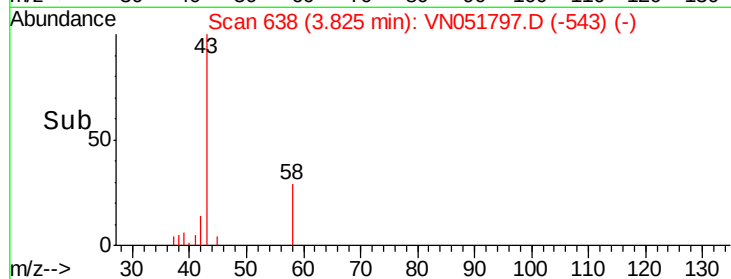
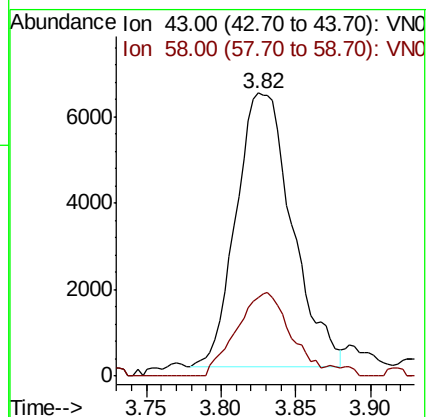
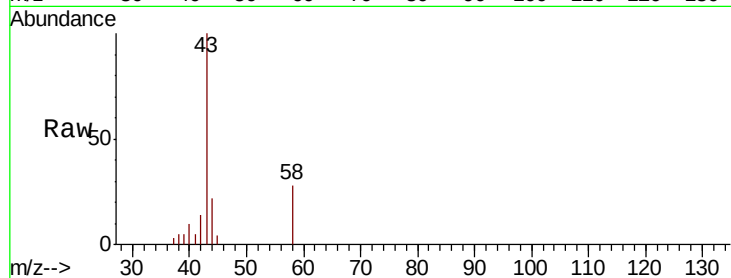
PB113684ZHE#08

Tot Ion: 43 Resp: 16402

Ion Ratio Lower Upper

43 100

58 28.6 24.3 36.5



#18

Methyl Acetate

Concen: 2.741 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051797.D

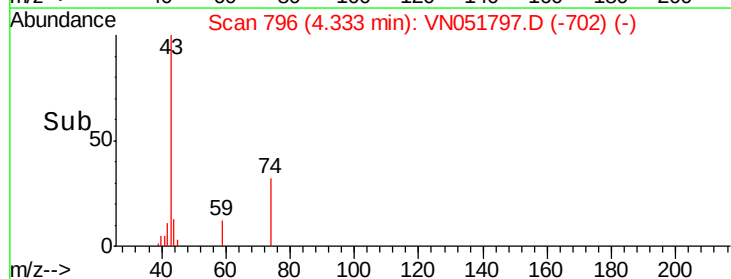
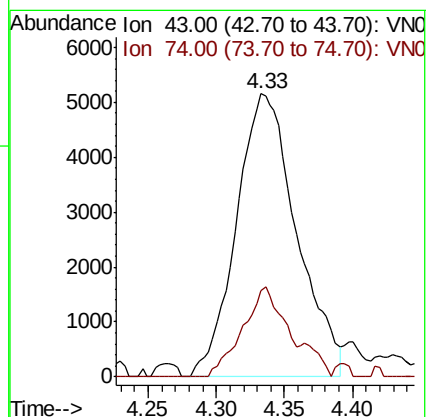
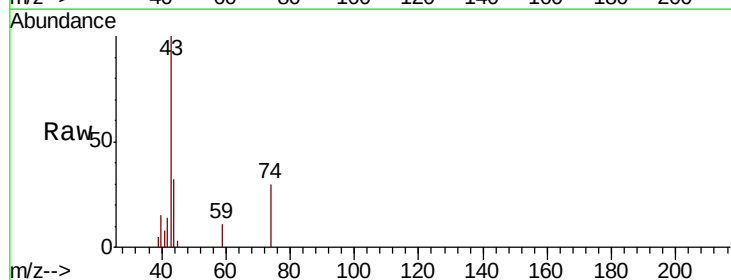
Acq: 10 Oct 2018 17:49

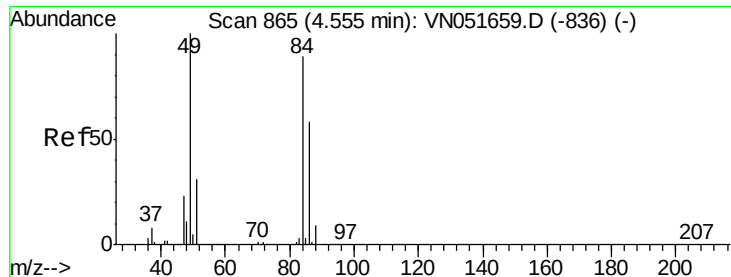
Tgt Ion: 43 Resp: 15819

Ion Ratio Lower Upper

43 100

74 22.2 21.5 32.3





#20

Methvlene Chloride

Concen: 1.184 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#08

Tot Ion: 84 Resp: 10184

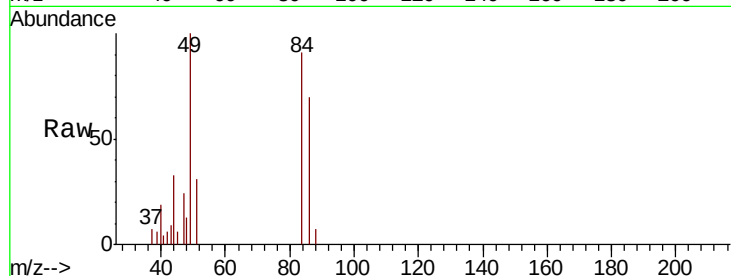
Ion Ratio Lower Upper

84 100

49 110.4 89.5 134.3

51 33.8 27.4 41.0

86 77.8 51.9 77.9

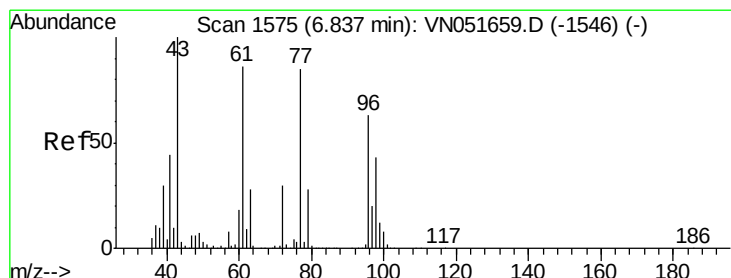
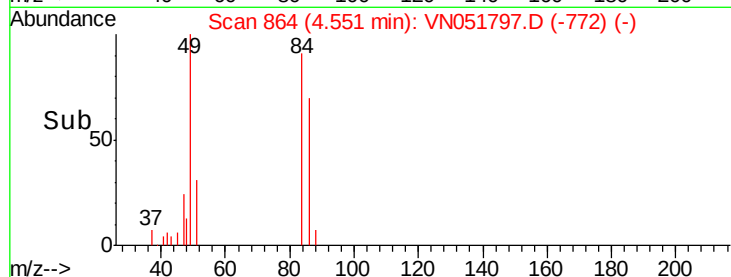
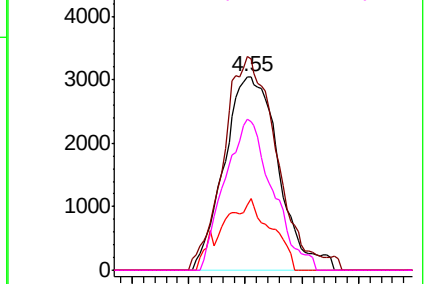


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 3.107 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN051797.D

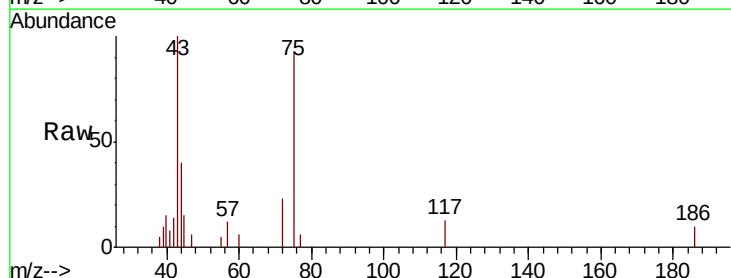
Acq: 10 Oct 2018 17:49

Tgt Ion: 43 Resp: 9380

Ion Ratio Lower Upper

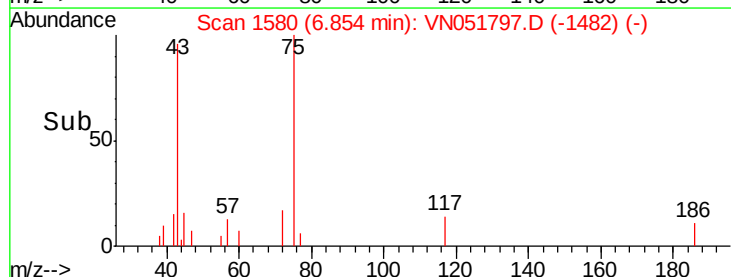
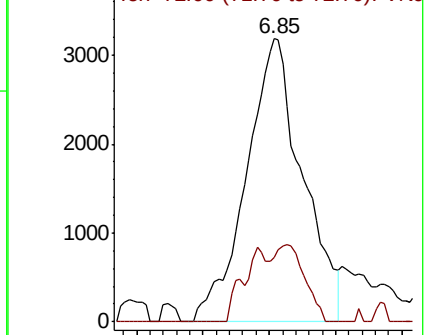
43 100

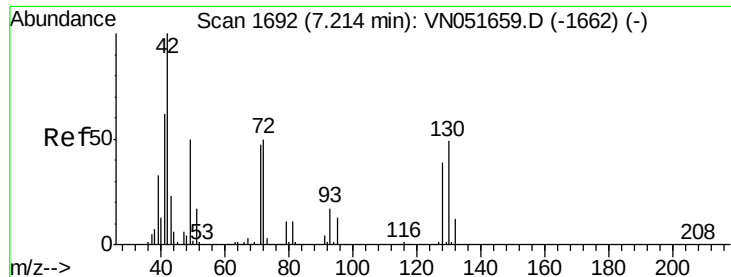
72 23.0 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

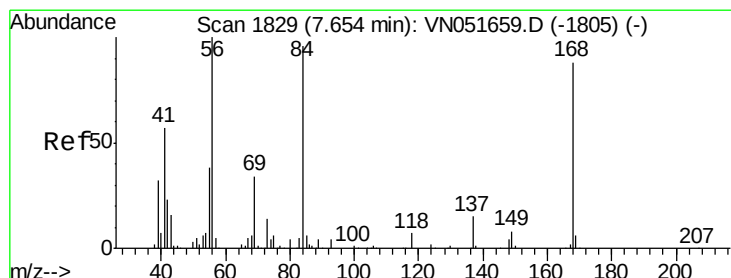
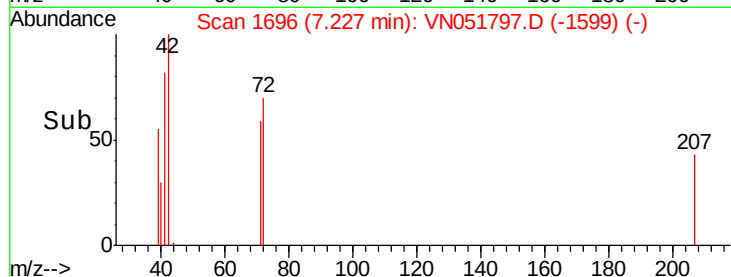
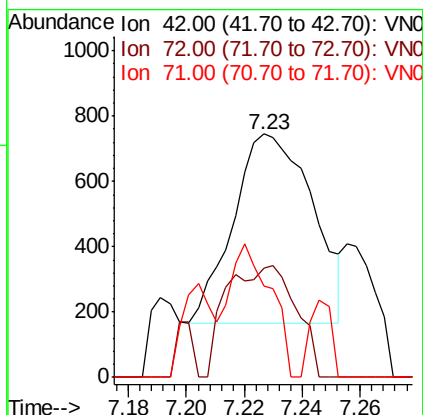
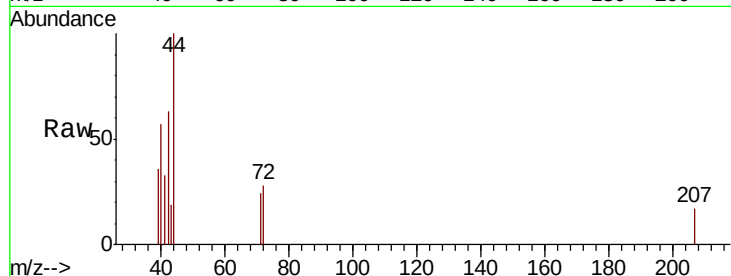




#29
Tetrahydrofuran
Concen: 0.591 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN051797.D
Acq: 10 Oct 2018 17:49

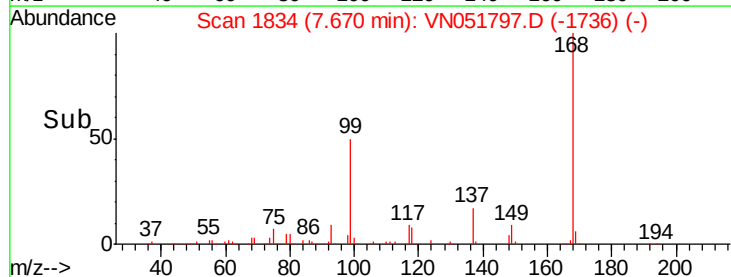
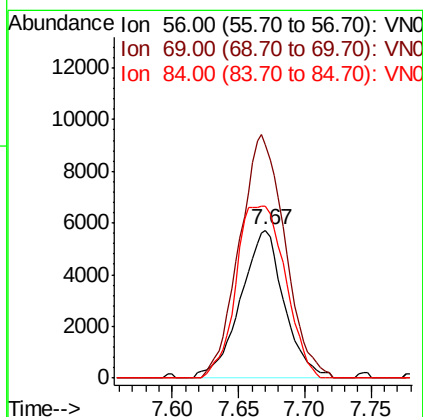
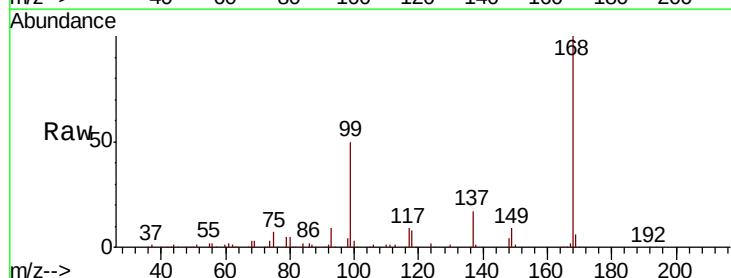
Instrument :
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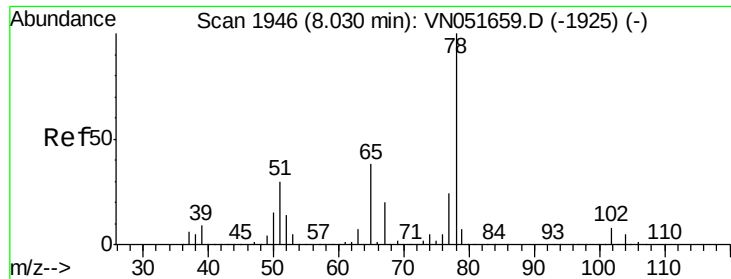
Tot Ion: 42 Resp: 1096
Ion Ratio Lower Upper
42 100
72 52.0 40.1 60.1
71 36.9 38.0 57.0#



#31
Cyclohexane
Concen: 0.924 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN051797.D
Acq: 10 Oct 2018 17:49

Tgt Ion: 56 Resp: 13113
Ion Ratio Lower Upper
56 100
69 157.7 27.5 41.3#
84 115.8 76.7 115.1#

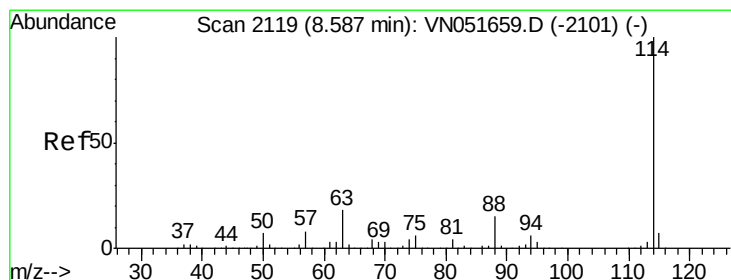
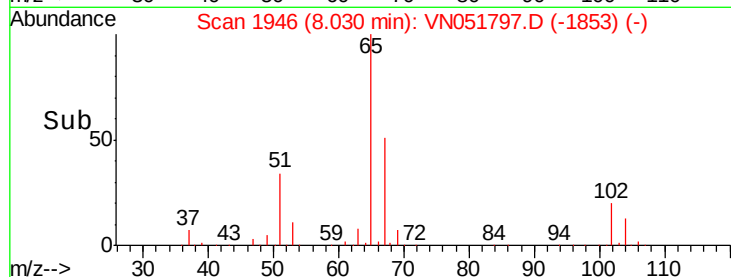
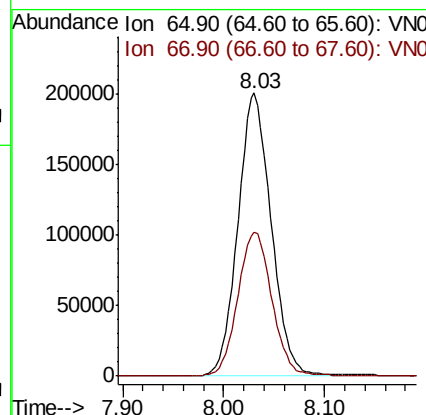
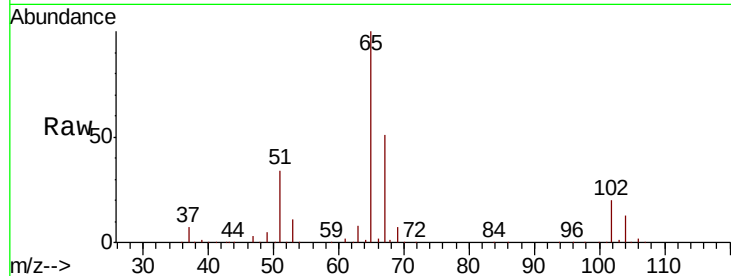




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051797.D
 Acq: 10 Oct 2018 17:49

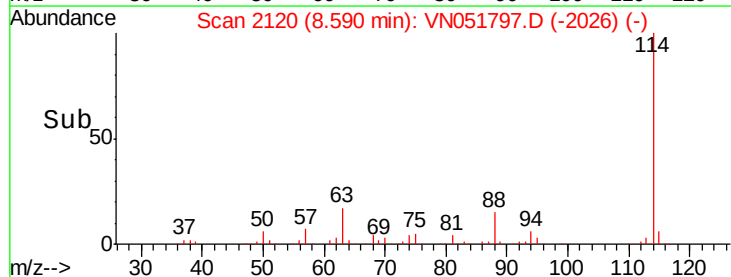
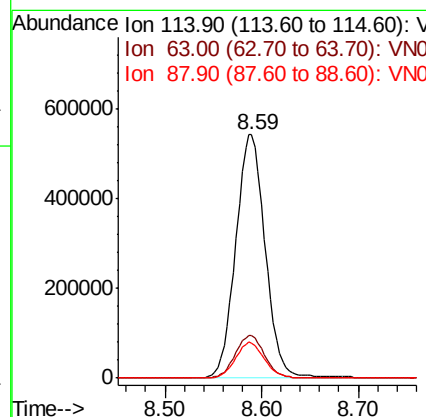
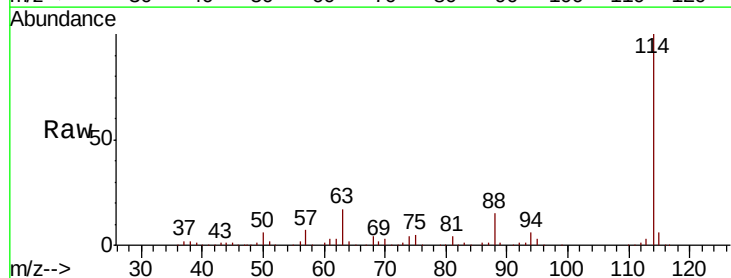
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#08

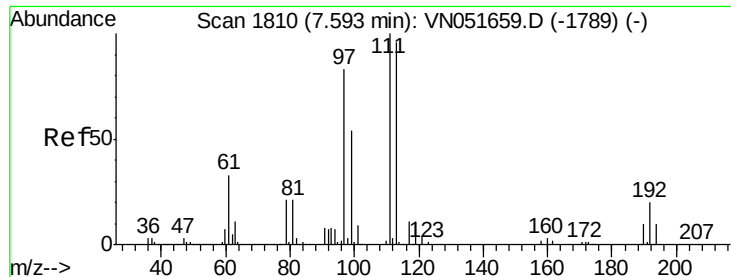
Tot Ion: 65 Resp: 460459
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051797.D
 Acq: 10 Oct 2018 17:49

Tgt Ion: 114 Resp: 1146394
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 36.2
 88 14.6 0.0 30.2

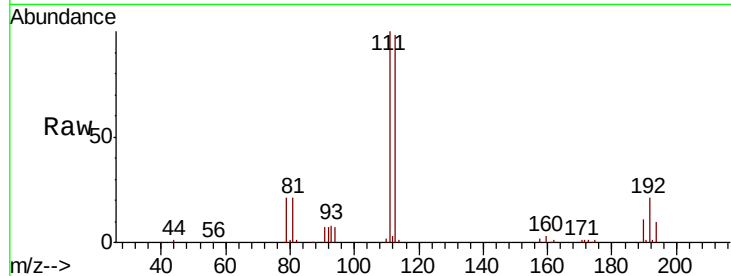




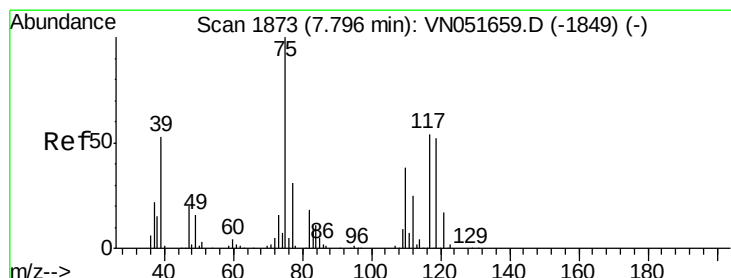
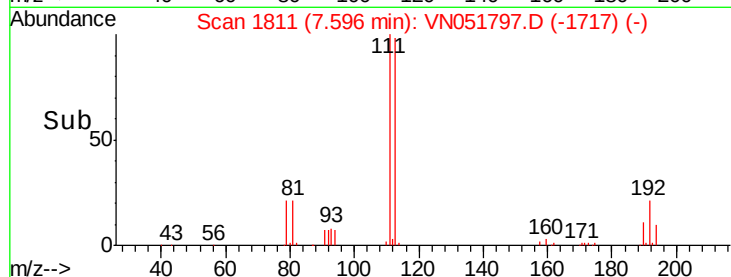
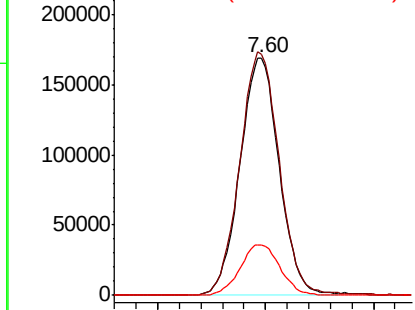
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.60 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VN051797.D
 Acq: 10 Oct 2018 17:49

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#08

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.8
192	21.8	16.5	24.7

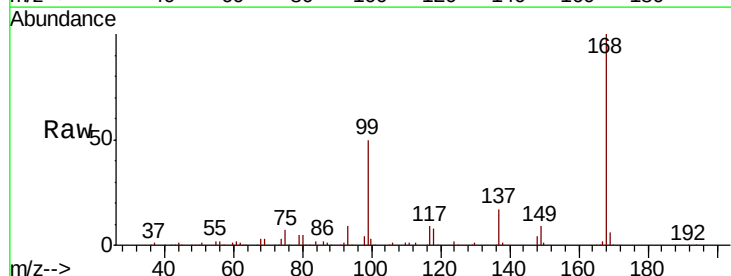


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

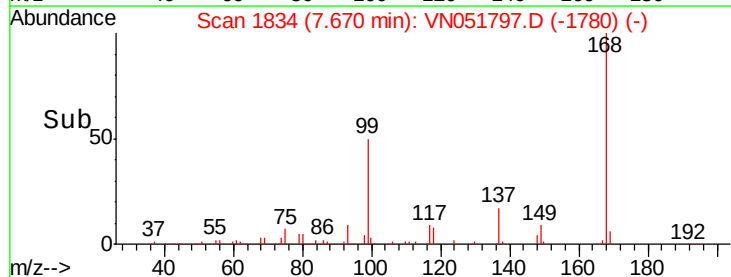
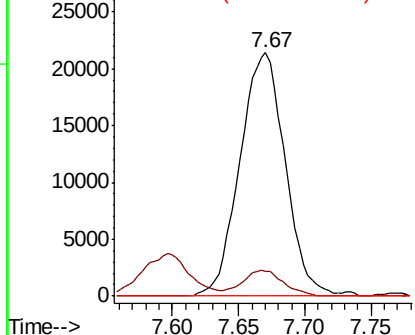


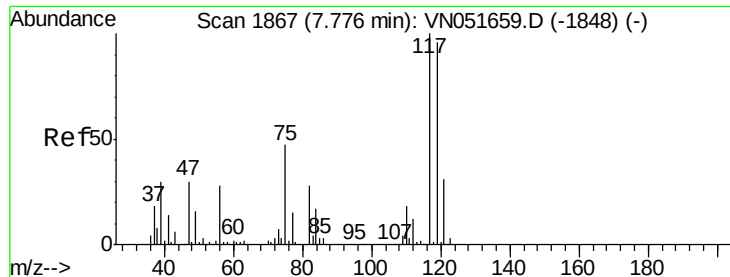
#36
 1,1-Dichloropropene
 Concen: 4.245 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN051797.D
 Acq: 10 Oct 2018 17:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	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: 5.084 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#08

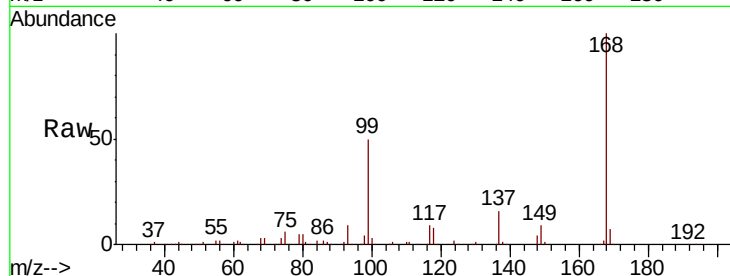
Tot Ion:117 Resp: 73107

Ion Ratio Lower Upper

117 100

119 4.5 77.0 115.6#

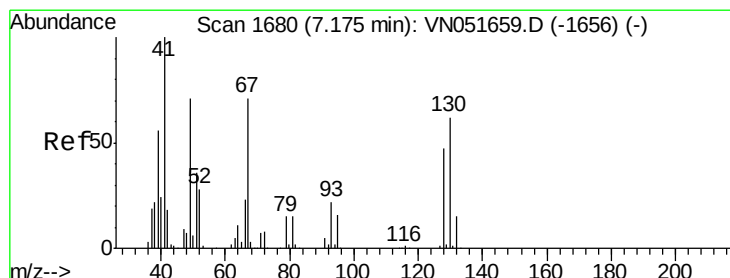
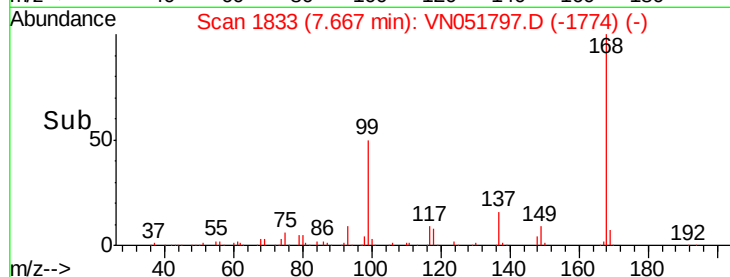
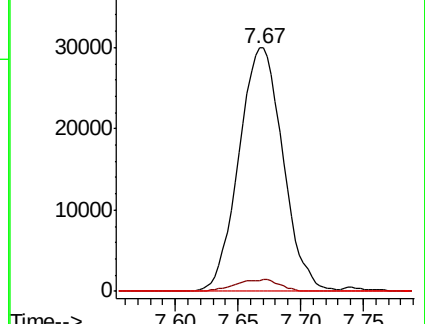
121 0.0 25.0 37.6#



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: 7.18 min Scan# 1682

Delta R.T. 0.01 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Tgt Ion: 41 Resp: 185

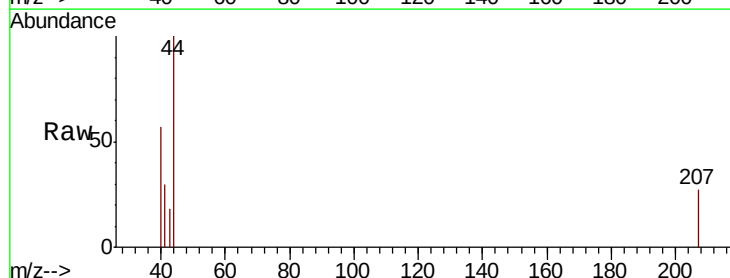
Ion Ratio Lower Upper

41 100

39 216.8 53.9 80.9#

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#

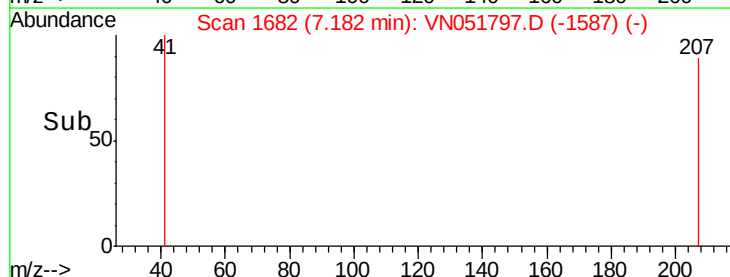
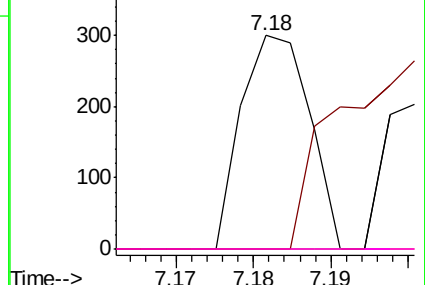


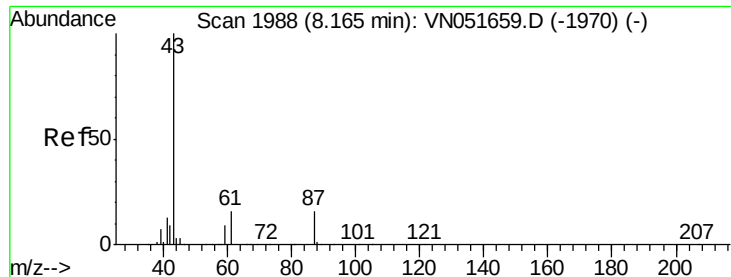
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 30.132 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#08

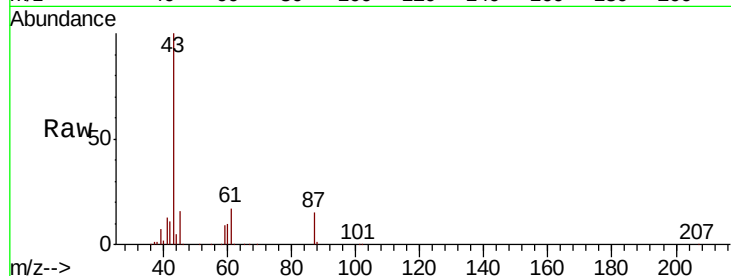
Tot Ion: 43 Resp: 392614

Ion Ratio Lower Upper

43 100

61 16.8 15.8 23.6

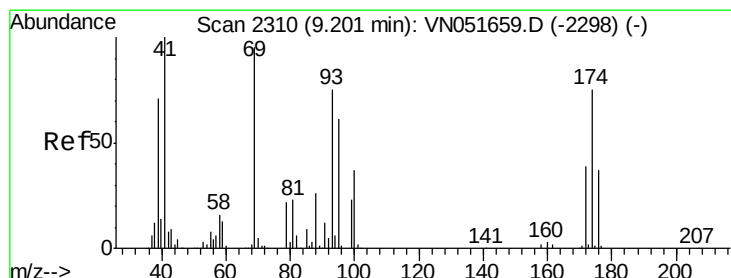
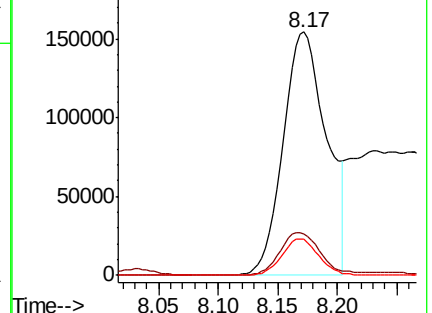
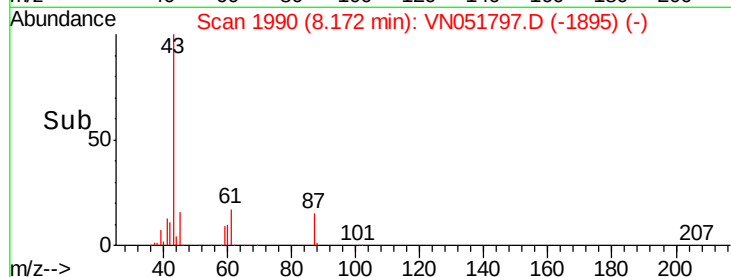
87 12.8 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN051659.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN051659.D (-1970) (-)



#48

Methyl methacrylate

Concen: 1.499 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

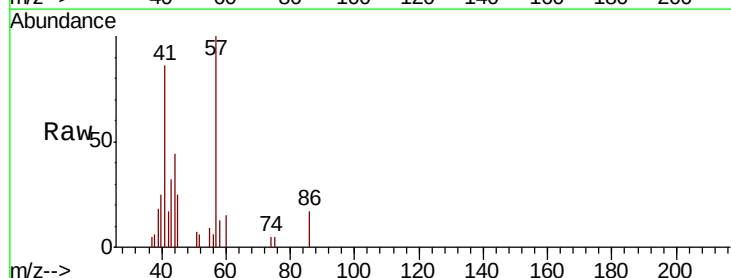
Tgt Ion: 41 Resp: 8923

Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

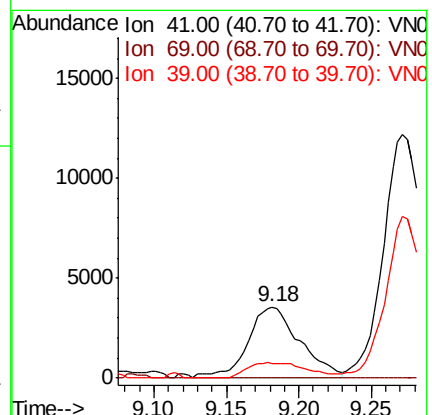
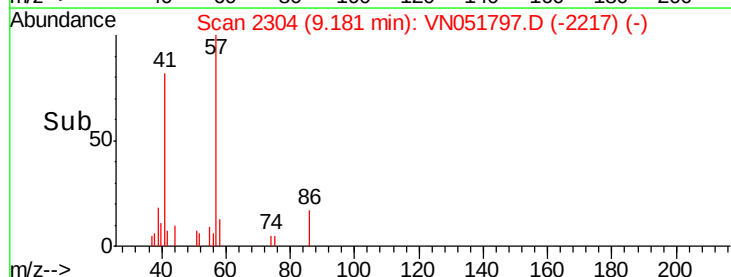
39 12.2 59.2 88.8#

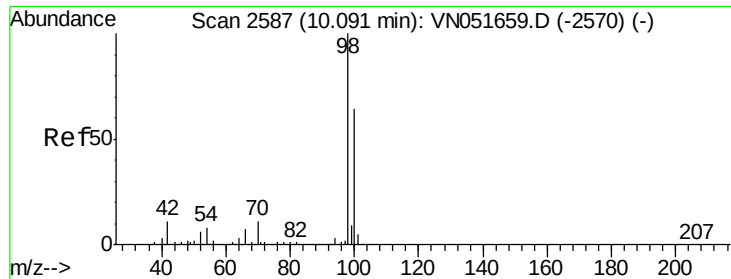


Abundance Ion 41.00 (40.70 to 41.70): VN051659.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051659.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051659.D (-2298) (-)





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

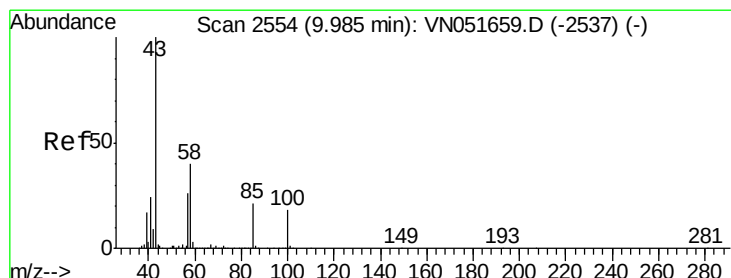
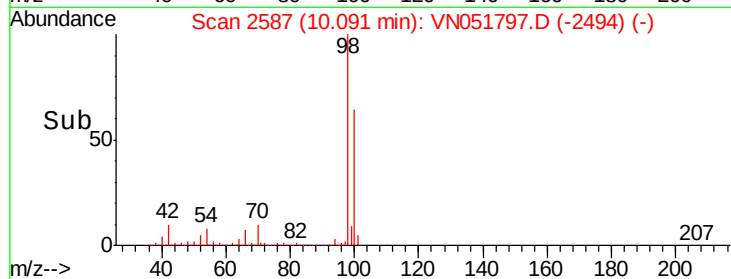
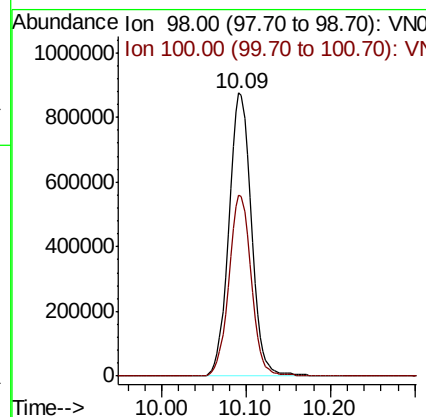
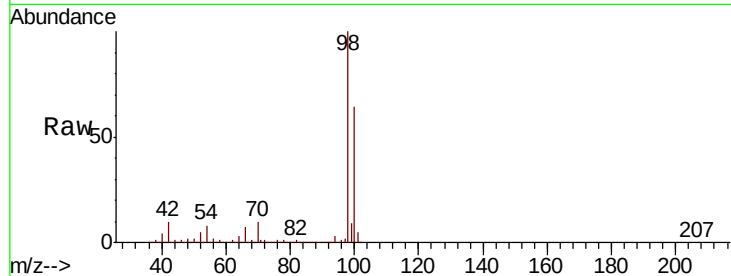
PB113684ZHE#08

Tot Ion: 98 Resp: 1623385

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.399 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051797.D

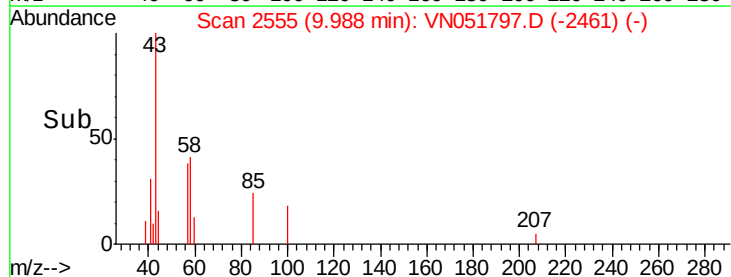
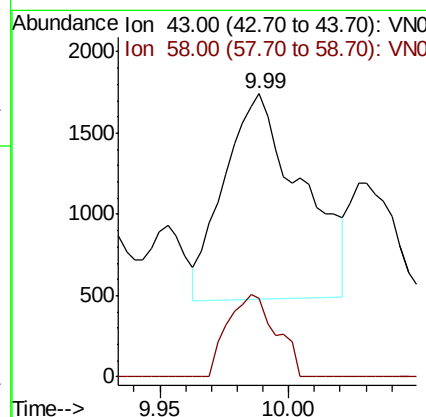
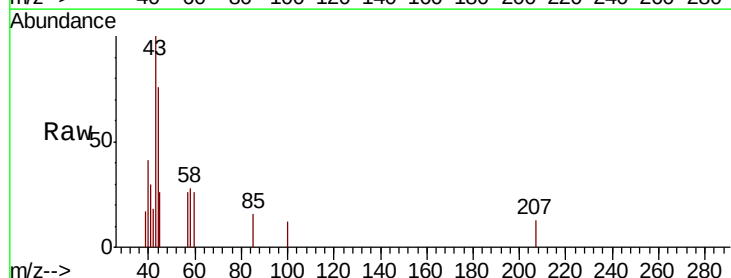
Acq: 10 Oct 2018 17:49

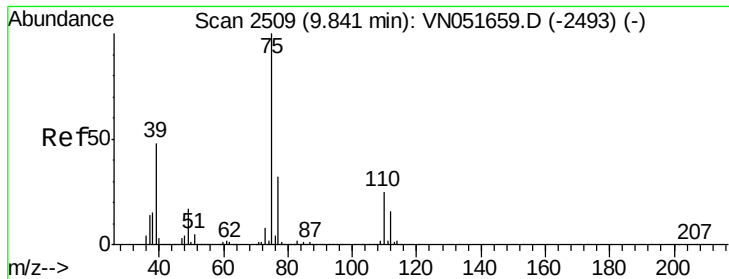
Tgt Ion: 43 Resp: 2632

Ion Ratio Lower Upper

43 100

58 25.2 32.2 48.2#





#54

cis-1,3-Dichloropropene

Concen: 0.213 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#08

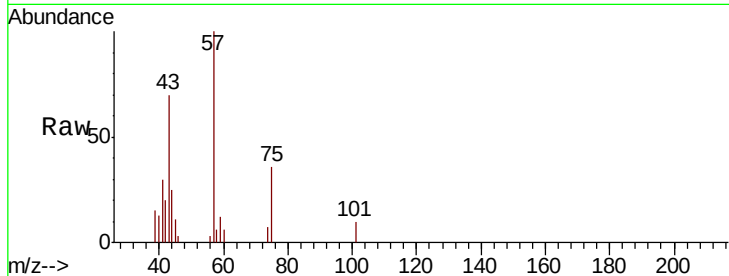
Tot Ion: 75 Resp: 3135

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

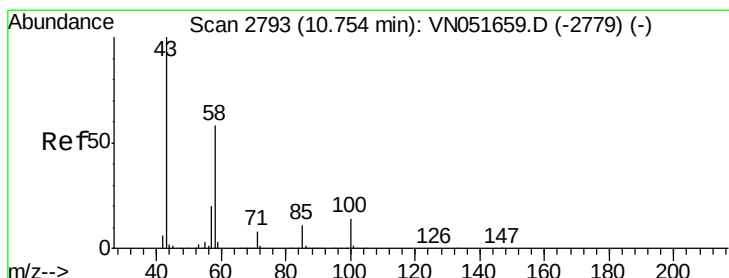
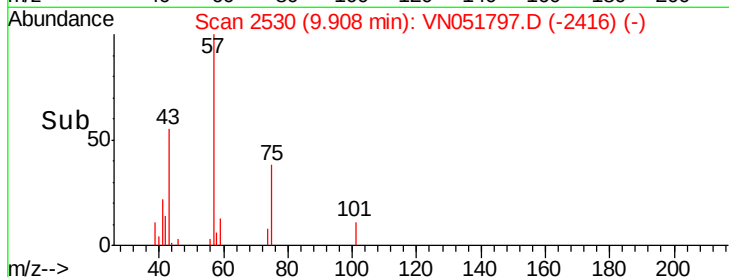
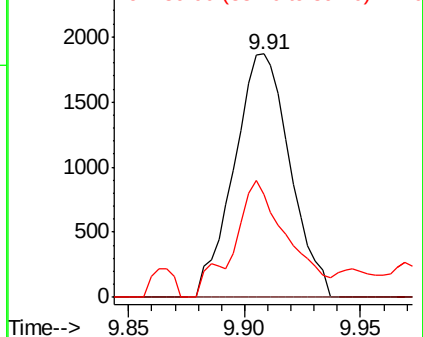
39 42.3 38.1 57.1



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 4.549 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051797.D

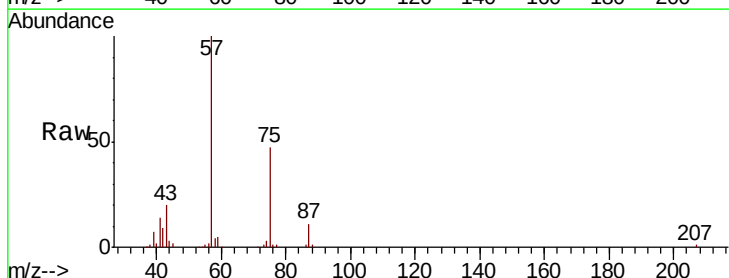
Acq: 10 Oct 2018 17:49

Tgt Ion: 43 Resp: 20399

Ion Ratio Lower Upper

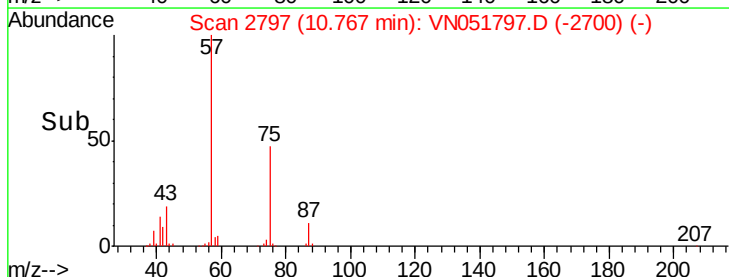
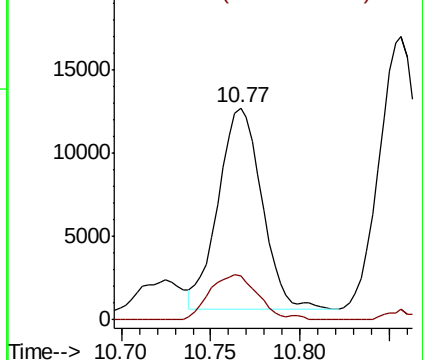
43 100

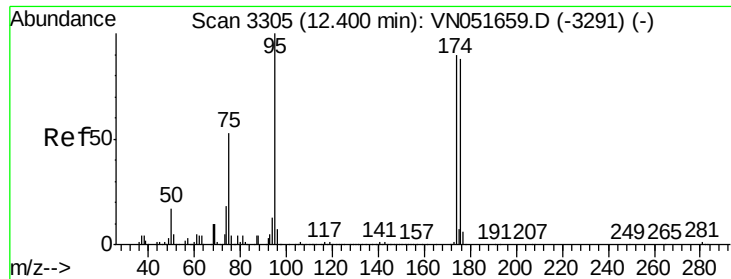
58 25.2 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#08

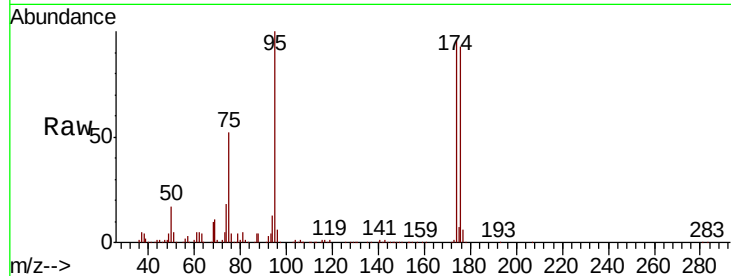
Tot Ion: 95 Resp: 473803

Ion Ratio Lower Upper

95 100

174 95.4 0.0 182.8

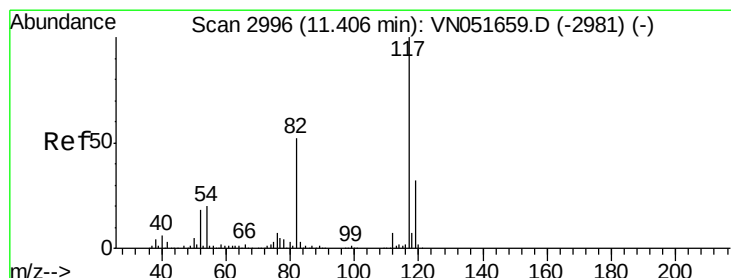
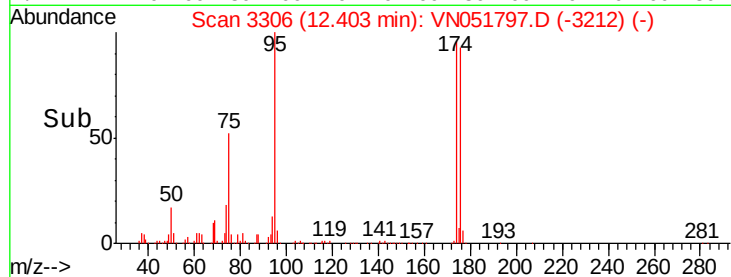
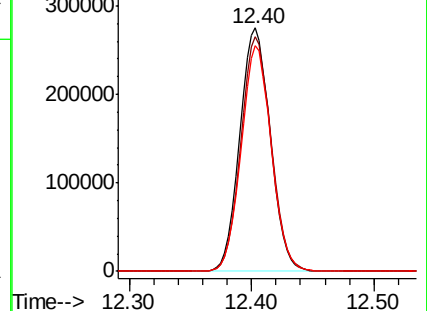
176 91.4 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051659.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051659.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051659.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

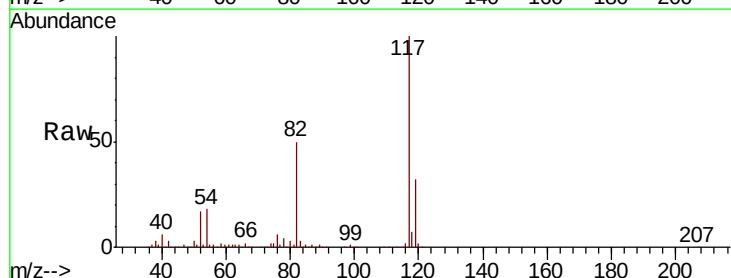
Tgt Ion: 117 Resp: 1034063

Ion Ratio Lower Upper

117 100

82 49.6 41.3 61.9

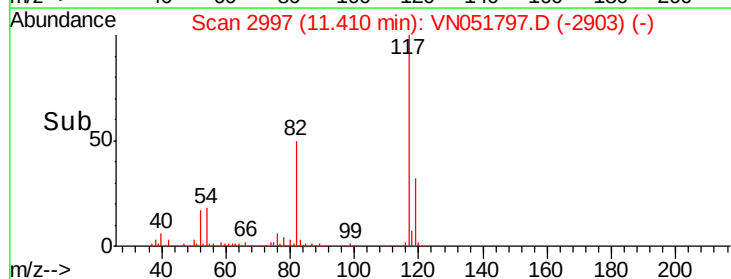
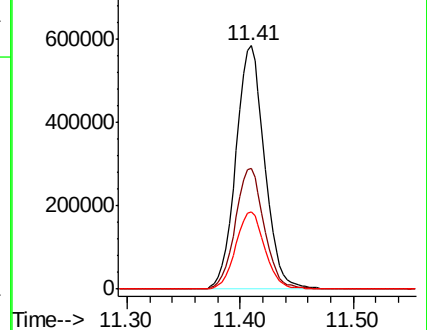
119 31.9 25.9 38.9

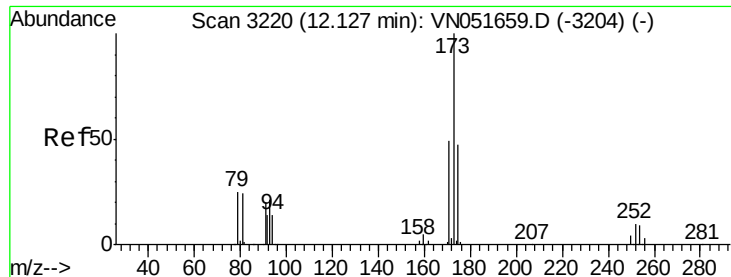


Abundance Ion 116.90 (116.60 to 117.60): VN051659.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051659.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051659.D (-2981) (-)





#71

Bromoform

Concen: 0.480 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#08

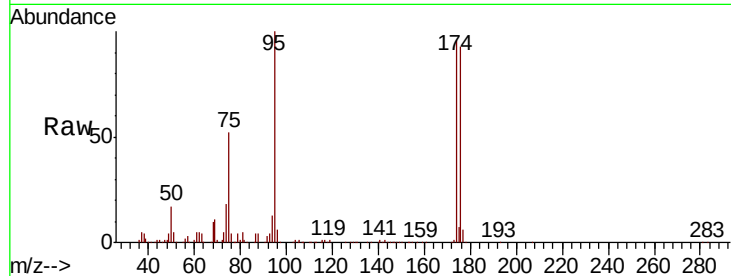
Tot Ion:173 Resp: 3660

Ion Ratio Lower Upper

173 100

175 761.4 24.0 72.0#

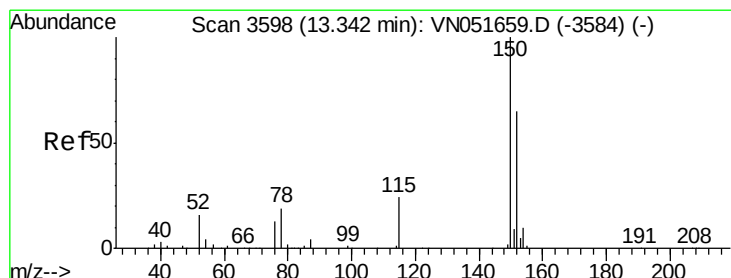
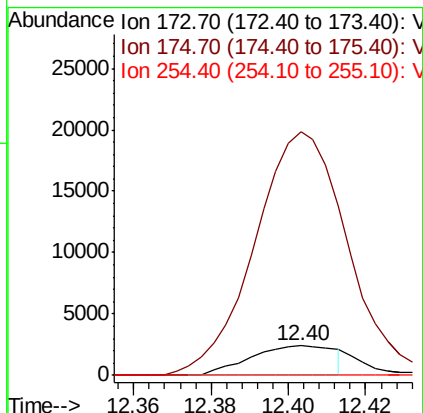
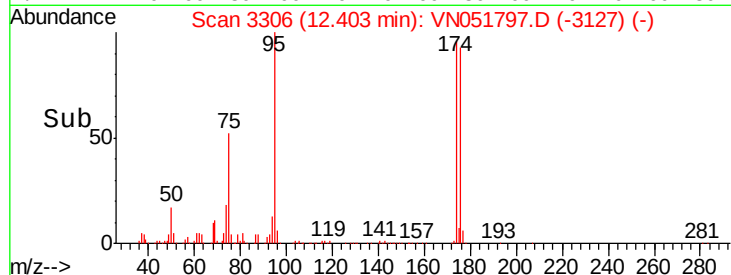
254 0.0 0.1 0.1#



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: VN051797.D

Acq: 10 Oct 2018 17:49

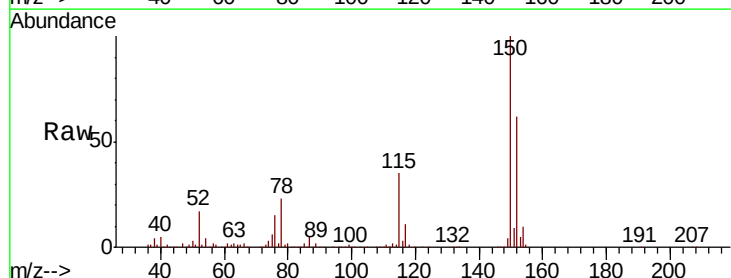
Tgt Ion:152 Resp: 387884

Ion Ratio Lower Upper

152 100

115 55.3 28.6 85.8

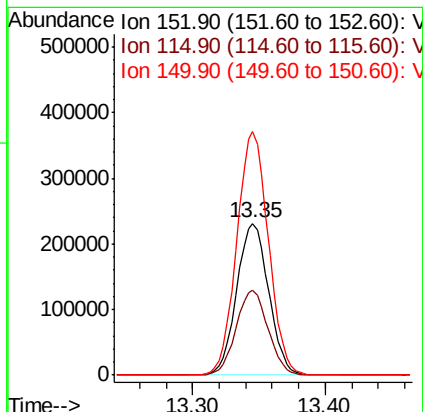
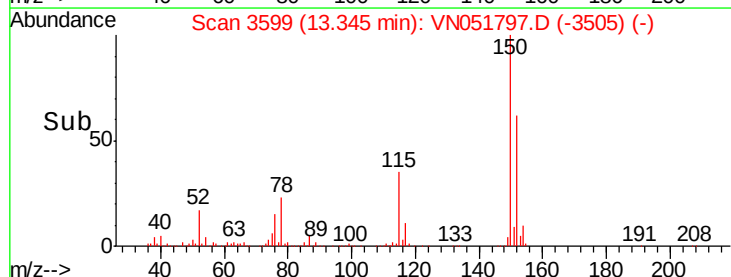
150 158.2 0.0 352.4

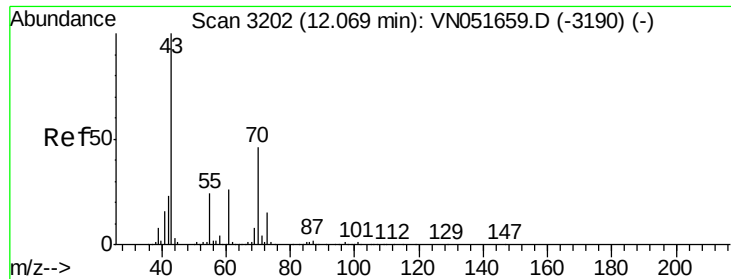


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.08 min Scan# 3207

Delta R.T. 0.02 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#08

Tot Ion: 43 Resp: 169

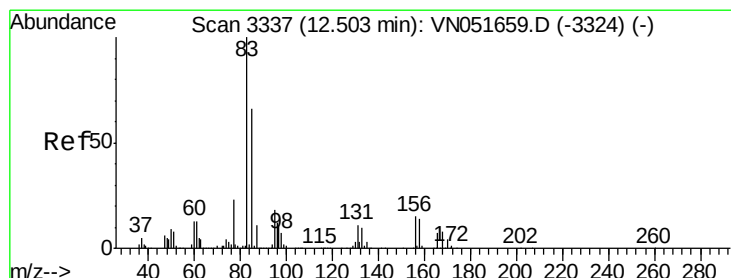
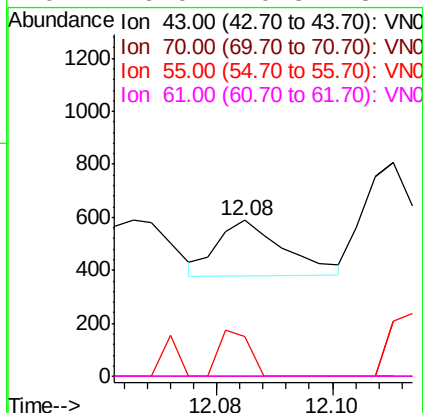
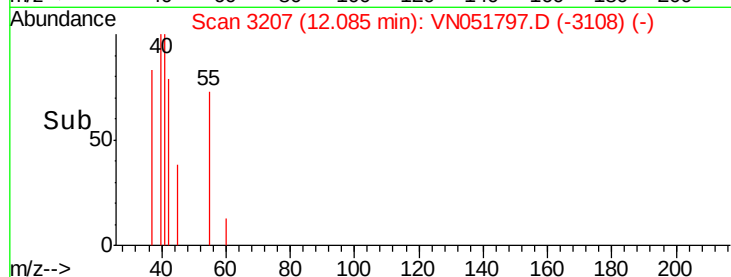
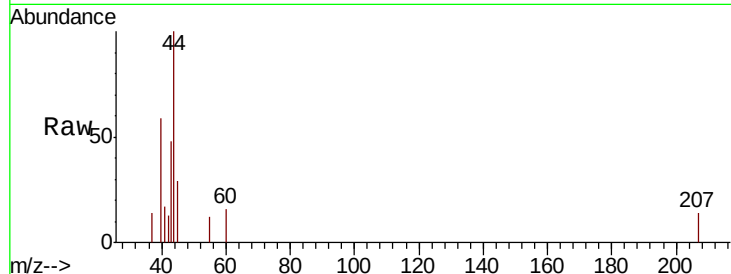
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 37.3 19.1 28.7#

61 0.0 20.8 31.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

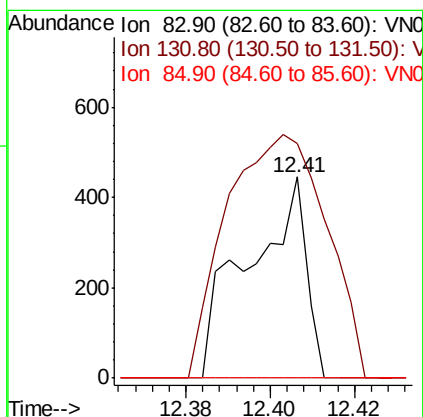
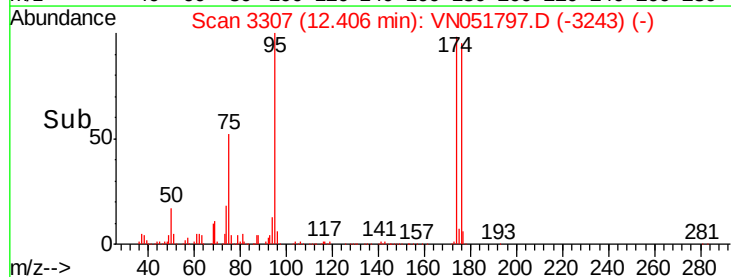
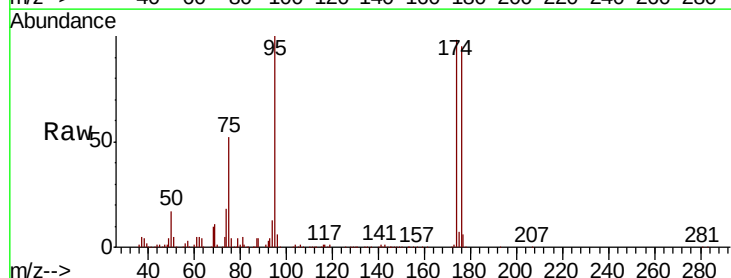
Tgt Ion: 83 Resp: 422

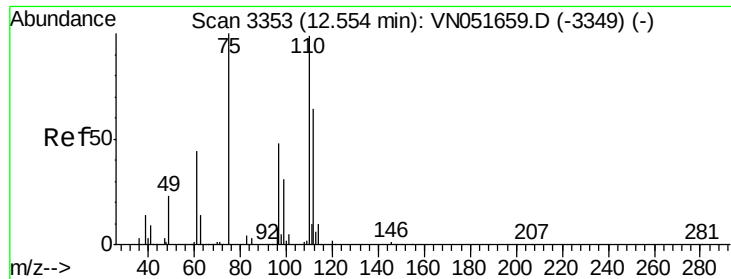
Ion Ratio Lower Upper

83 100

131 210.4 5.7 17.1#

85 0.0 33.0 98.9#





#76

1,2,3-Trichloropropane

Concen: 50.930 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

Instrument :

MSVOA_N

ClientSampleId :

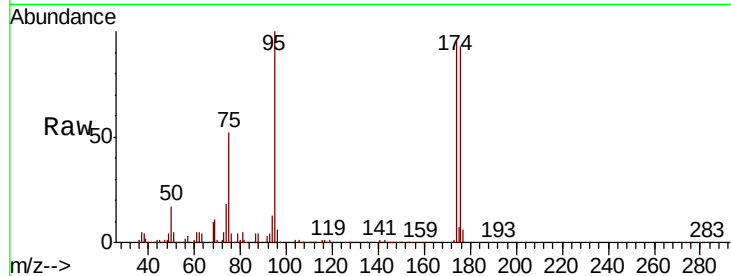
PB113684ZHE#08

Tot Ion: 75 Resp: 245092

Ion Ratio Lower Upper

75 100

77 1.1 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

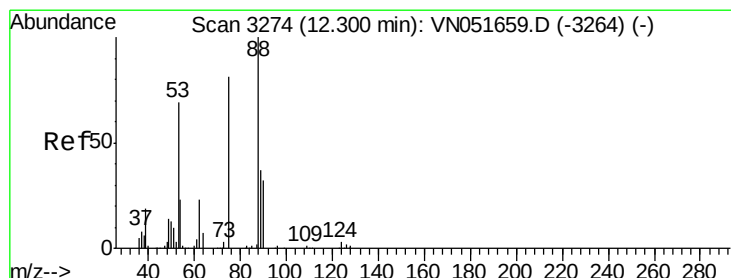
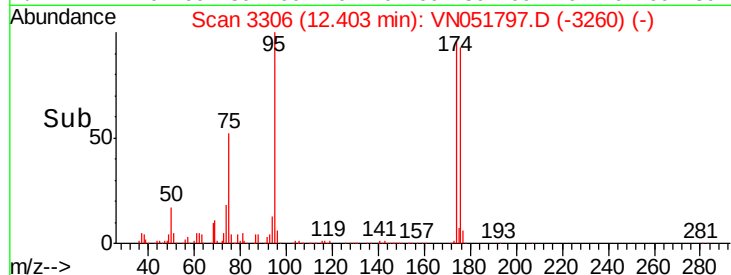
100000

50000

0

Time-->

12.35 12.40 12.45 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 116.150 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051797.D

Acq: 10 Oct 2018 17:49

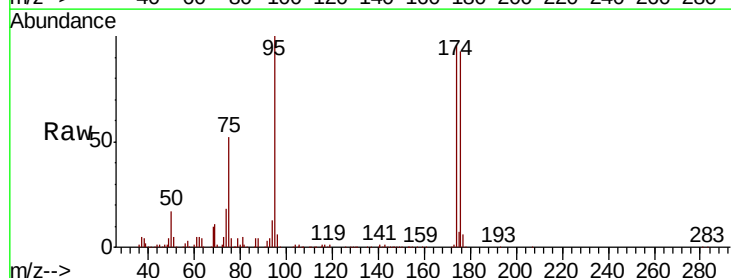
Tgt Ion: 75 Resp: 245092

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-->

12.35 12.40 12.45 12.50

