

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091318\
 Data File : VN051171.D
 Acq On : 13 Sep 2018 15:44
 Operator : MD\SY
 Sample : PB112798ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112798ZHE#05

Quant Time: Sep 14 01:06:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	551204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	885687	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	756701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	223873	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	344713	56.20	ug/l	0.00
Spiked Amount			Recovery	=	112.40%	
35) Dibromofluoromethane	7.59	113	335167	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
50) Toluene-d8	10.09	98	1210704	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
62) 4-Bromofluorobenzene	12.40	95	307253	36.78	ug/l	0.00
Spiked Amount			Recovery	=	73.56%	

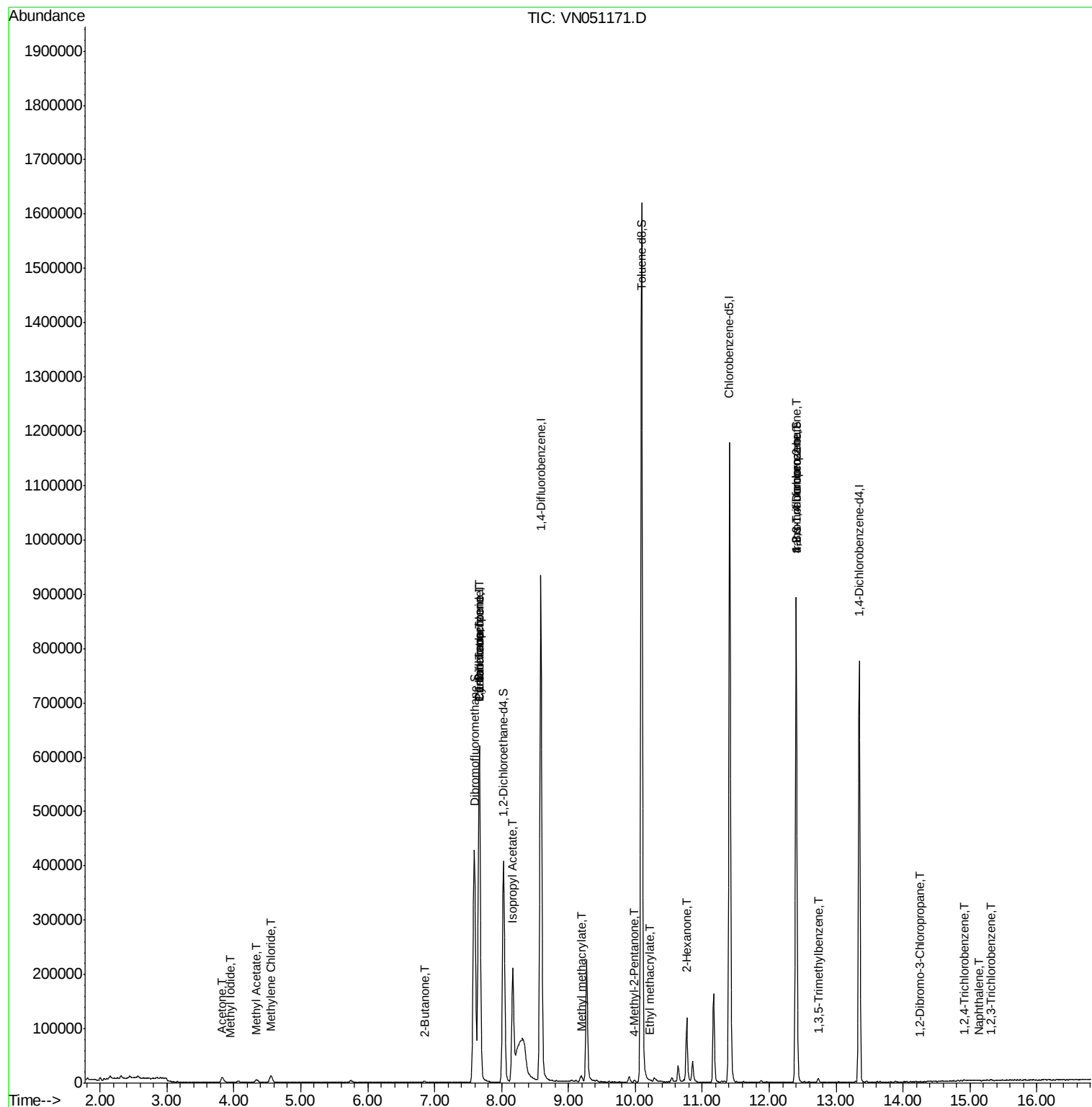
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2090	Below Cal	#	82
5) Bromomethane	2.57	94	2167	Below Cal		97
10) Methyl Iodide	3.94	142	337	5.68	ug/l #	54
16) Acetone	3.83	43	15875	4.74	ug/l	99
18) Methyl Acetate	4.33	43	9570	1.95	ug/l #	78
20) Methylene Chloride	4.55	84	10254	1.51	ug/l	96
25) 2-Butanone	6.86	43	1799	0.75	ug/l #	88
31) Cyclohexane	7.67	56	8744	0.64	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	35539	3.65	ug/l #	48
38) Carbon Tetrachloride	7.67	117	47832	5.00	ug/l #	17
43) Isopropyl Acetate	8.17	43	256194	25.78	ug/l #	86
48) Methyl methacrylate	9.19	41	7181	1.48	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	2075	0.38	ug/l	91
56) Ethyl methacrylate	10.23	69	1940	2.67	ug/l #	76
59) 2-Hexanone	10.77	43	16983	4.56	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	145150	41.57	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3555	0.23	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	145150	123.13	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.25	75	62	0.75	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	674	4.14	ug/l #	69
95) Naphthalene	15.14	128	1535	5.50	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.32	180	722	3.12	ug/l #	57

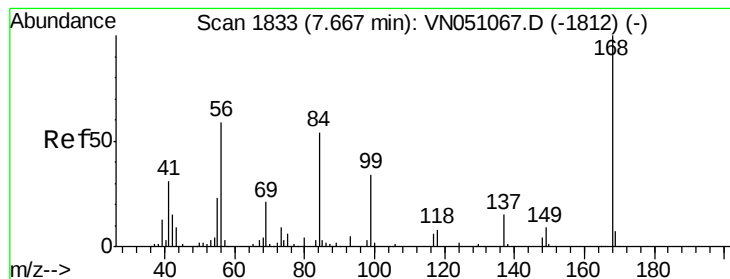
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

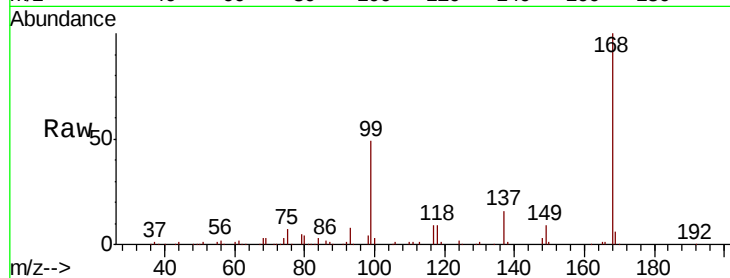
PB112798ZHE#05

Tot Ion:168 Resp: 551204

Ion Ratio Lower Upper

168 100

99 49.1 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): VN051171.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051171.D (-1740) (-)

7.67

250000

200000

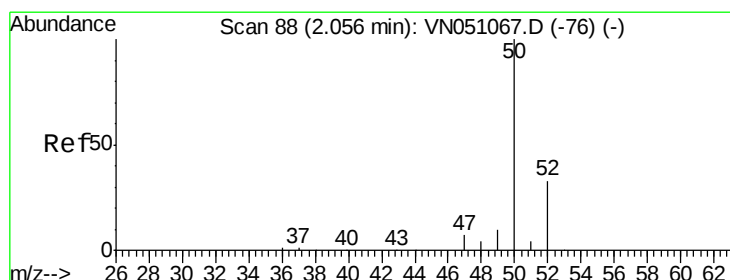
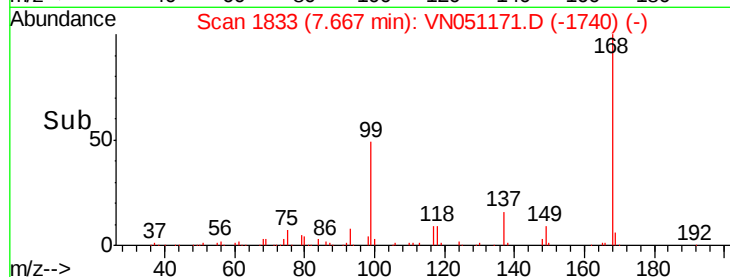
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051171.D

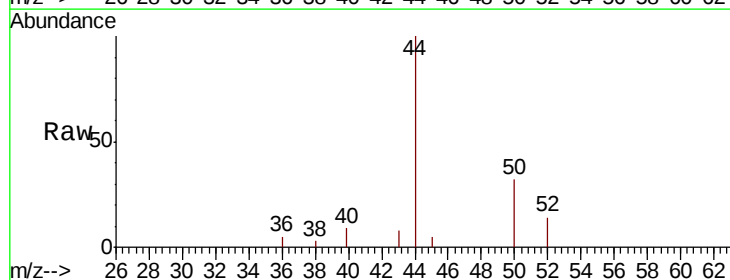
Acq: 13 Sep 2018 15:44

Tgt Ion: 50 Resp: 2090

Ion Ratio Lower Upper

50 100

52 42.6 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN051171.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN051171.D (-1) (-)

2.06

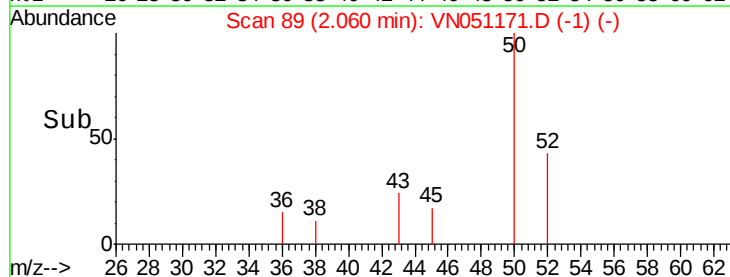
1500

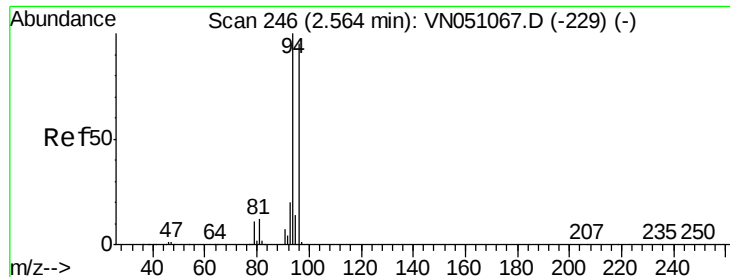
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

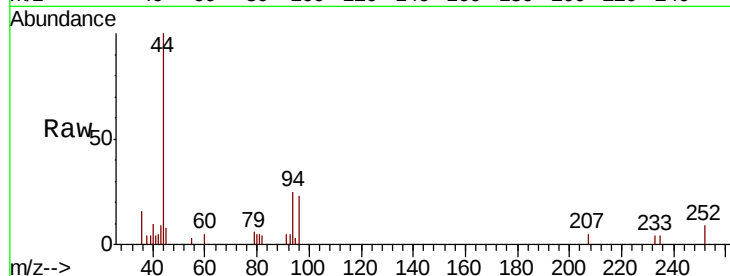
PB112798ZHE#05

Tot Ion: 94 Resp: 2167

Ion Ratio Lower Upper

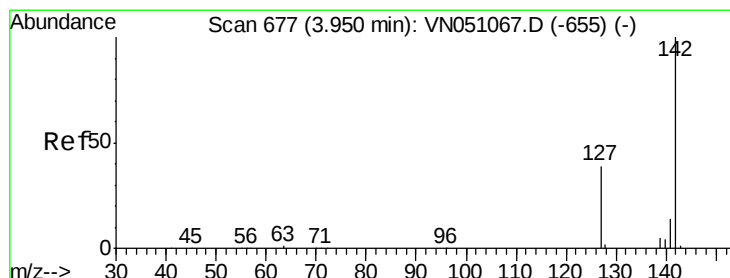
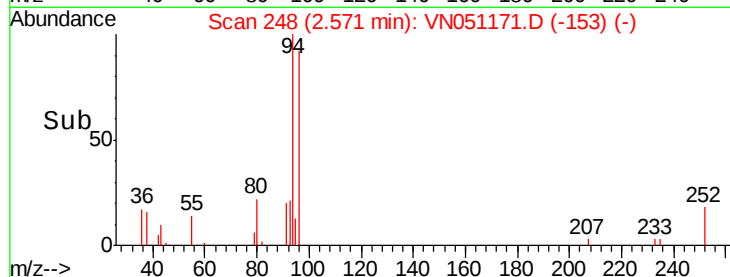
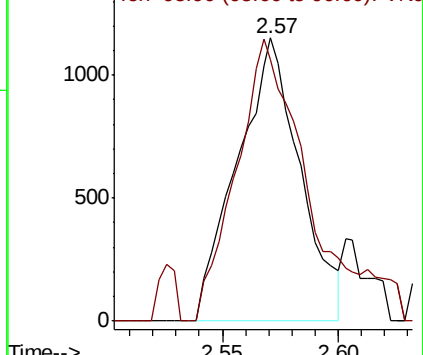
94 100

96 92.4 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN051171.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051171.D (-153) (-)



#10

Methyl Iodide

Concen: 5.68 ug/l

RT: 3.94 min Scan# 675

Delta R.T. -0.01 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

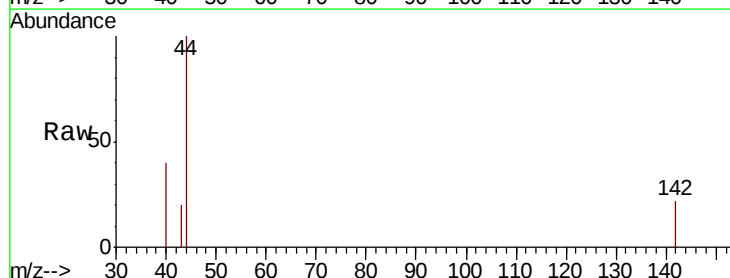
Tgt Ion: 142 Resp: 337

Ion Ratio Lower Upper

142 100

127 8.6 31.0 46.4#

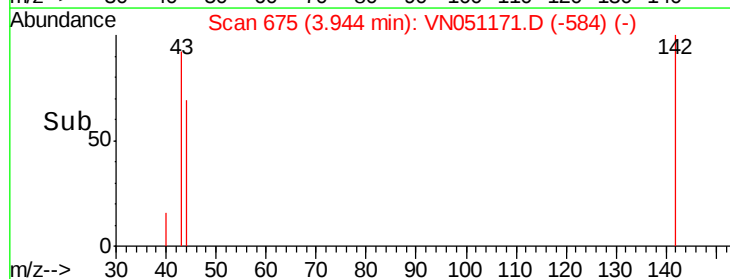
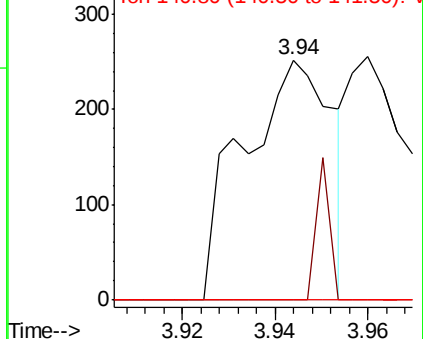
141 0.0 11.3 16.9#

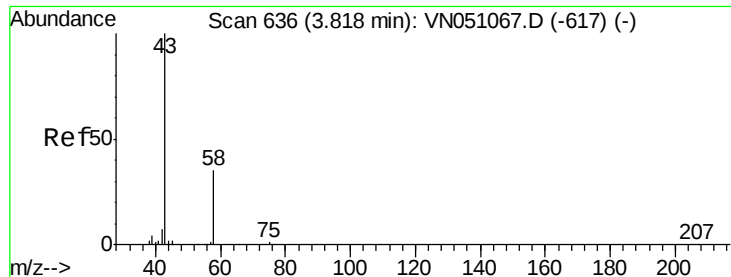


Abundance Ion 141.80 (141.50 to 142.50): VN051171.D (-584) (-)

Ion 126.80 (126.50 to 127.50): VN051171.D (-584) (-)

Ion 140.80 (140.50 to 141.50): VN051171.D (-584) (-)





#16

Acetone

Concen: 4.74 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

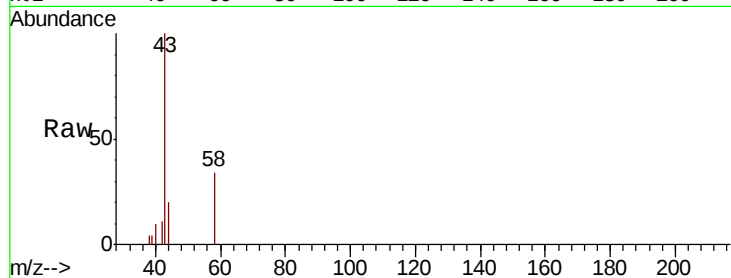
PB112798ZHE#05

Tot Ion: 43 Resp: 15875

Ion Ratio Lower Upper

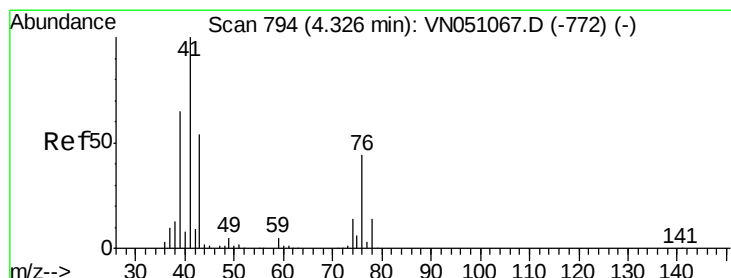
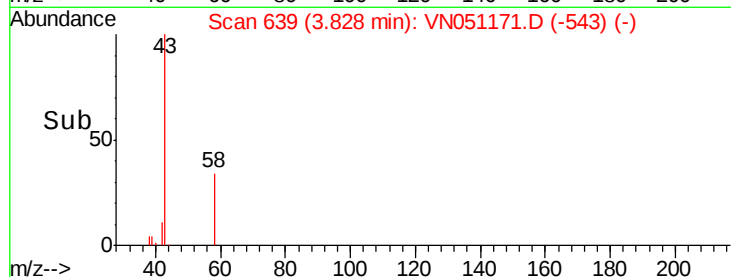
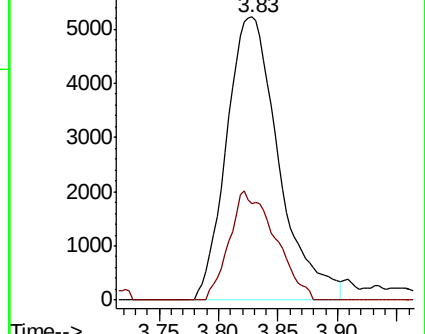
43 100

58 34.3 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN051171.D (-543) (-)

Ion 58.00 (57.70 to 58.70): VN051171.D (-543) (-)



#18

Methyl Acetate

Concen: 1.95 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051171.D

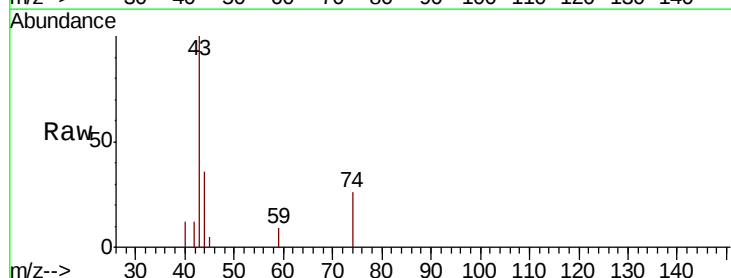
Acq: 13 Sep 2018 15:44

Tgt Ion: 43 Resp: 9570

Ion Ratio Lower Upper

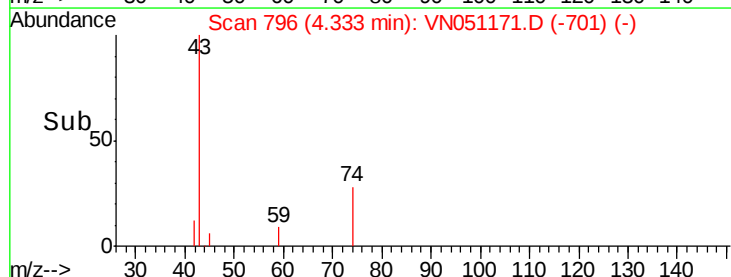
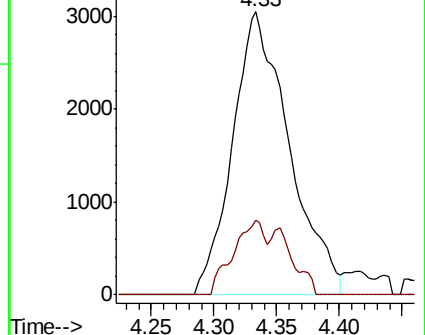
43 100

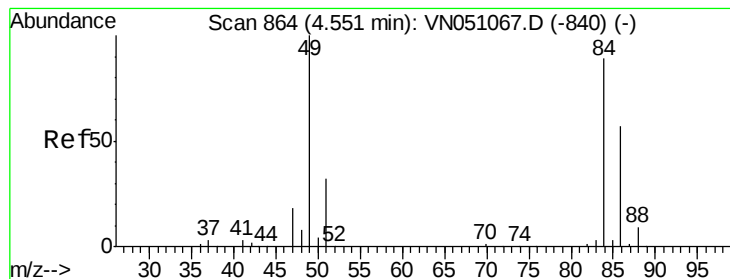
74 14.9 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VN051171.D (-701) (-)

Ion 74.00 (73.70 to 74.70): VN051171.D (-701) (-)





#20

Methvlene Chloride

Concen: 1.51 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB112798ZHE#05

Tot Ion: 84 Resp: 10254

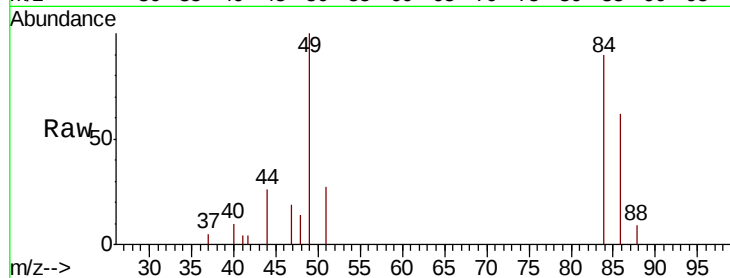
Ion Ratio Lower Upper

84 100

49 110.9 90.2 135.2

51 30.1 28.4 42.6

86 68.4 51.8 77.8

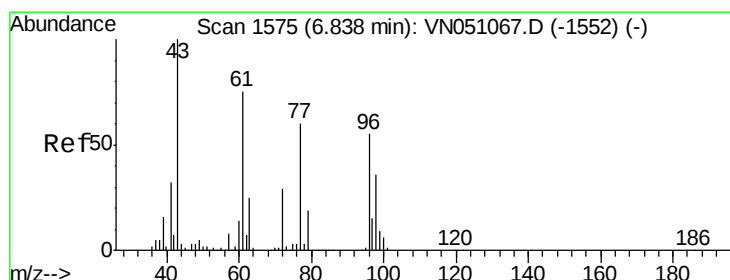
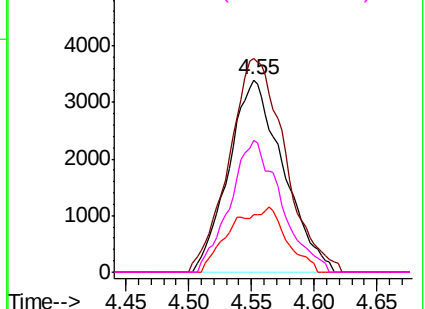
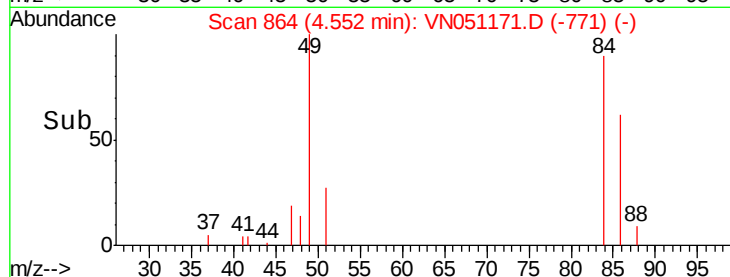


Abundance Ion 83.90 (83.60 to 84.60): VNO

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: 0.75 ug/l

RT: 6.86 min Scan# 1582

Delta R.T. 0.02 min

Lab File: VN051171.D

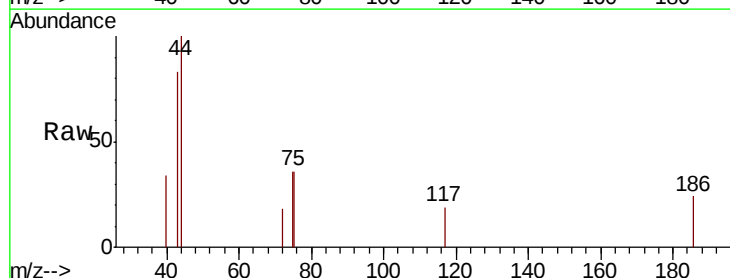
Acq: 13 Sep 2018 15:44

Tgt Ion: 43 Resp: 1799

Ion Ratio Lower Upper

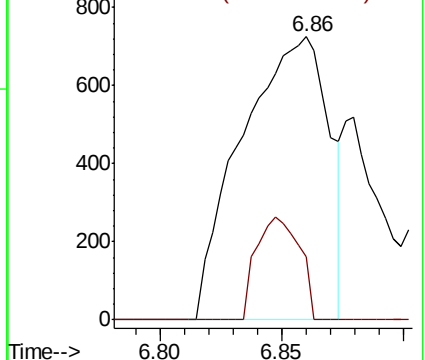
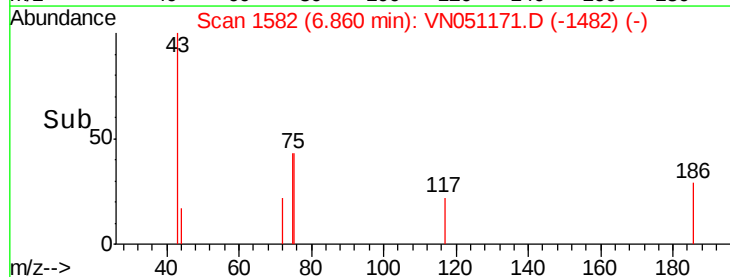
43 100

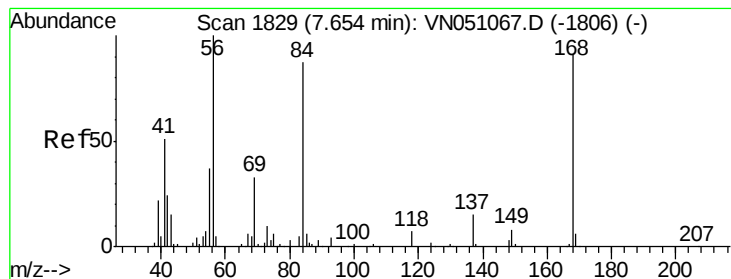
72 22.2 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#31

Cyclohexane

Concen: 0.64 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

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ClientSampleId :

PB112798ZHE#05

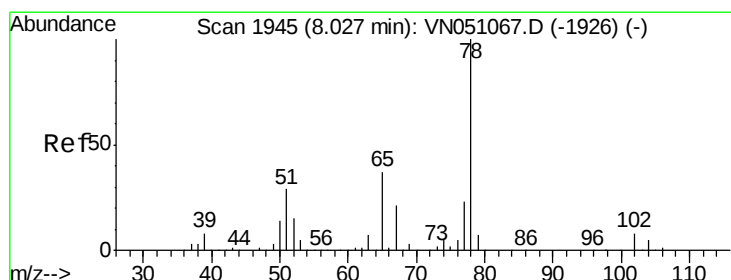
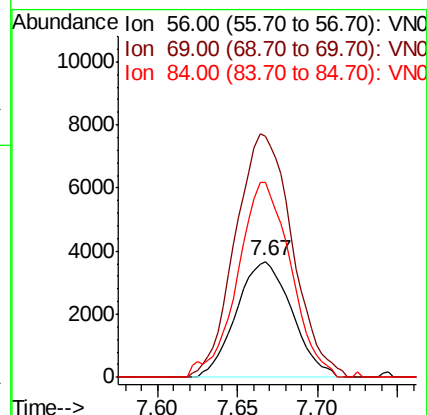
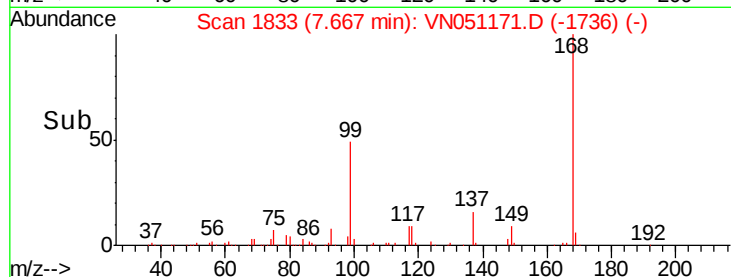
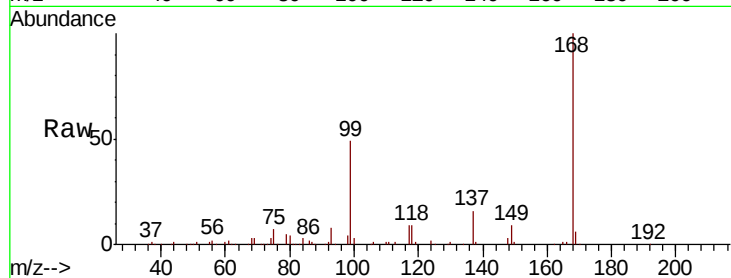
Tot Ion: 56 Resp: 8744

Ion Ratio Lower Upper

56 100

69 204.1 26.3 39.5#

84 168.0 69.4 104.0#



#33

1,2-Dichloroethane-d4

Concen: 56.20 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051171.D

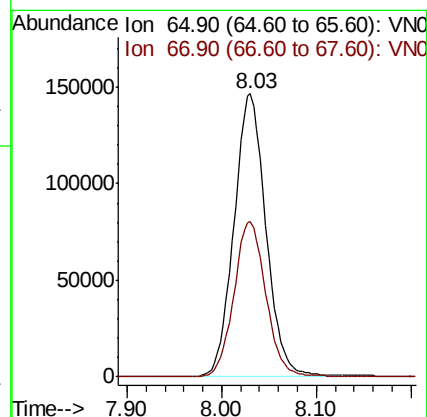
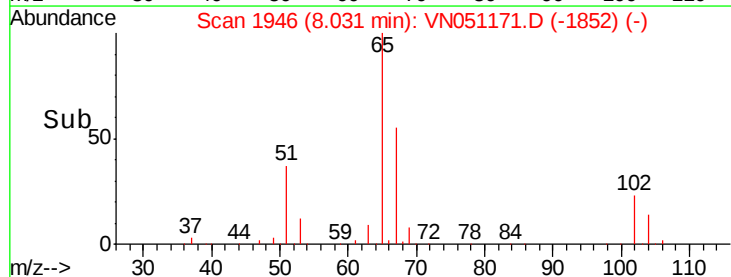
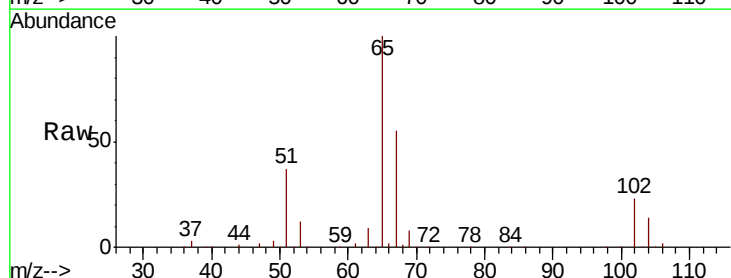
Acq: 13 Sep 2018 15:44

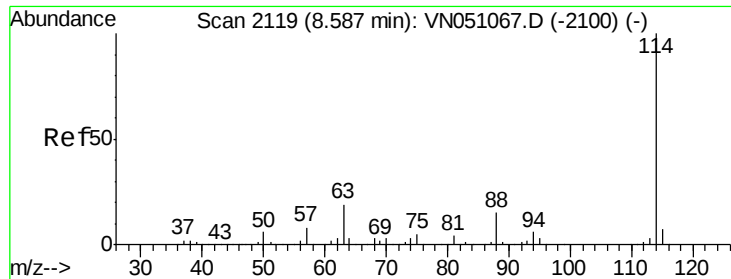
Tgt Ion: 65 Resp: 344713

Ion Ratio Lower Upper

65 100

67 54.8 0.0 112.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

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PB112798ZHE#05

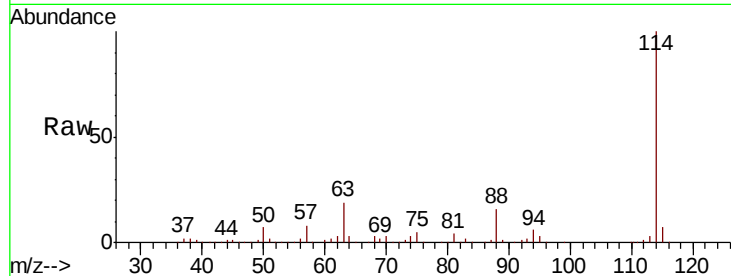
Tot Ion:114 Resp: 885687

Ion Ratio Lower Upper

114 100

63 18.8 0.0 37.8

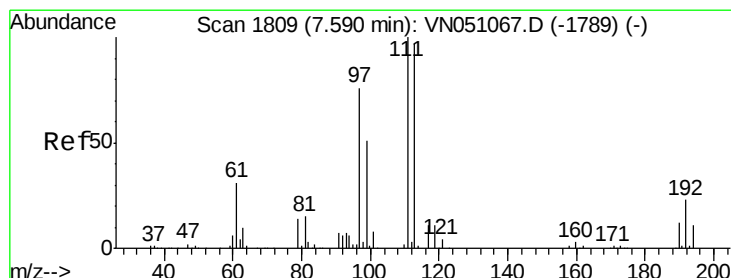
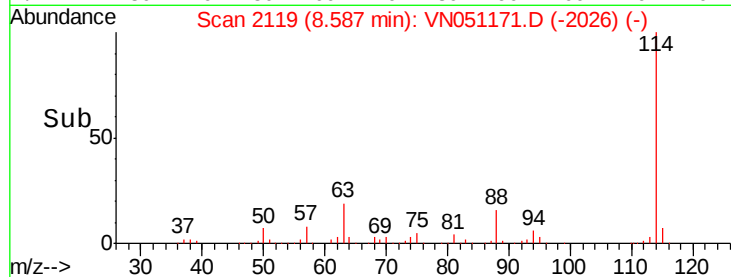
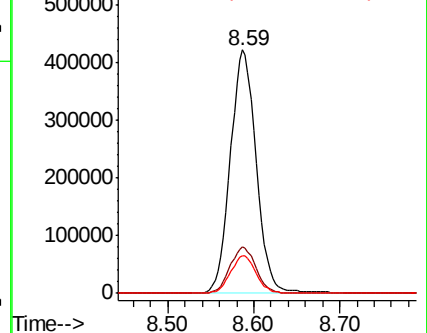
88 15.6 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.36 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

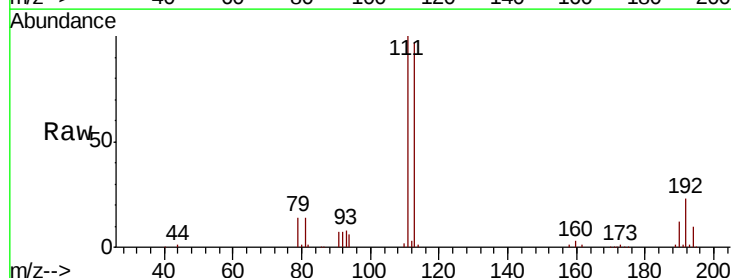
Tgt Ion:113 Resp: 335167

Ion Ratio Lower Upper

113 100

111 103.4 83.0 124.6

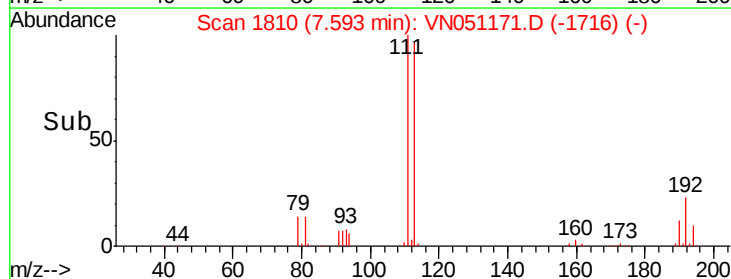
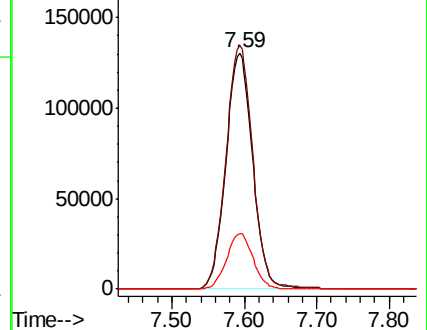
192 23.3 18.7 28.1

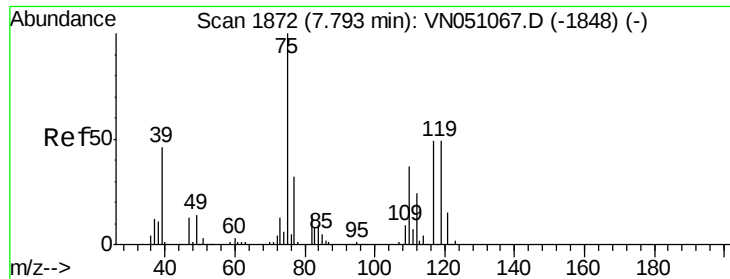


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.65 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

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PB112798ZHE#05

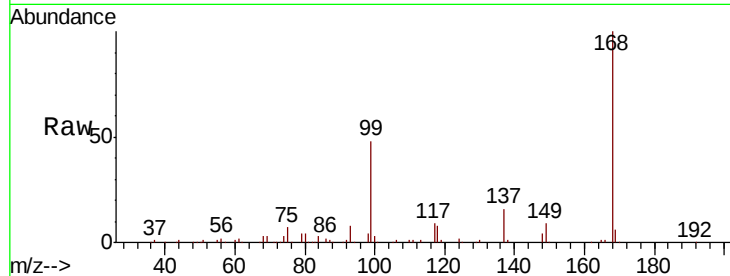
Tot Ion: 75 Resp: 35539

Ion Ratio Lower Upper

75 100

110 8.9 18.6 55.8#

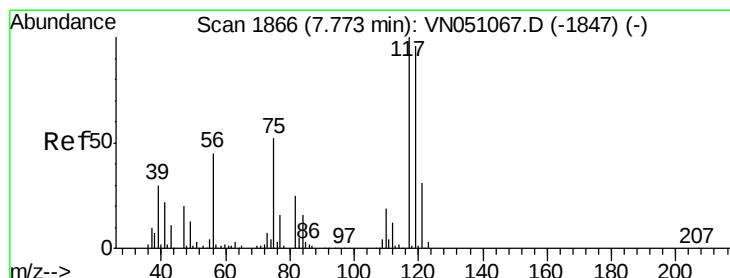
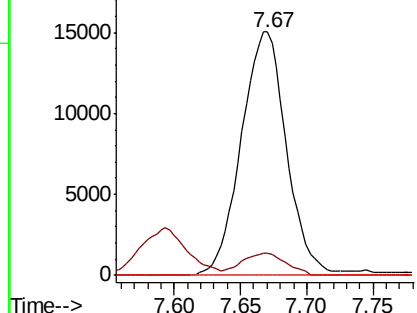
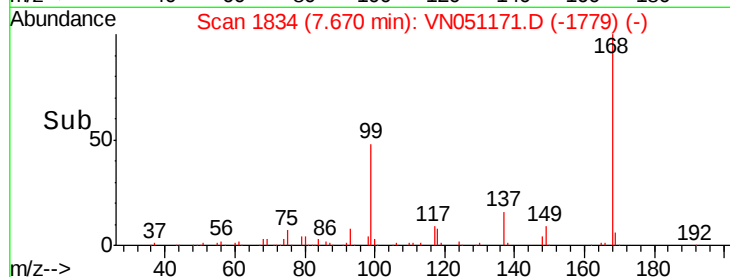
77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VN051171.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN051171.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN051171.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 5.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

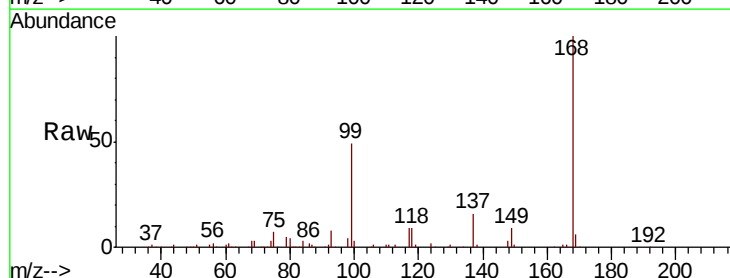
Tgt Ion: 117 Resp: 47832

Ion Ratio Lower Upper

117 100

119 6.7 76.8 115.2#

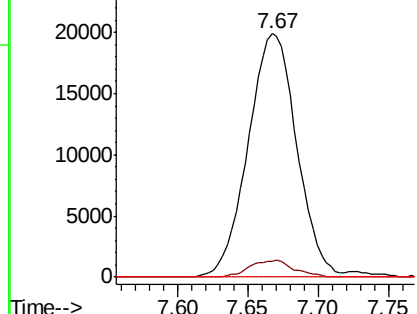
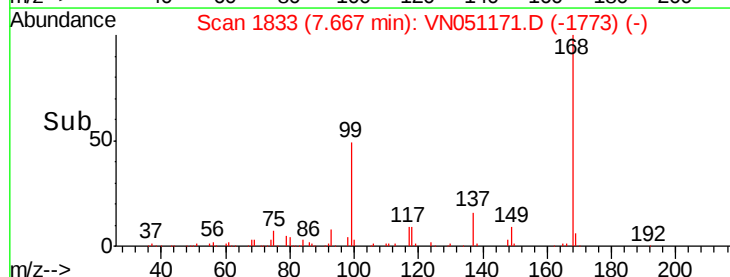
121 0.0 24.6 36.8#

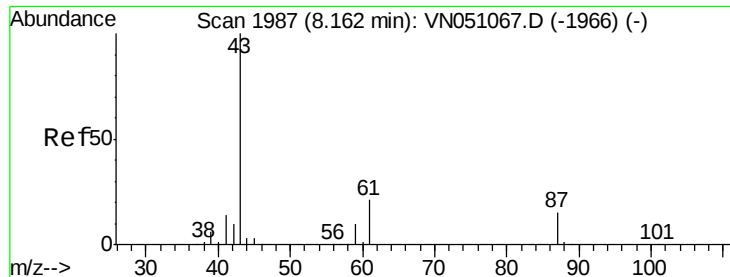


Abundance Ion 116.80 (116.50 to 117.50): VN051171.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN051171.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN051171.D (-1773) (-)



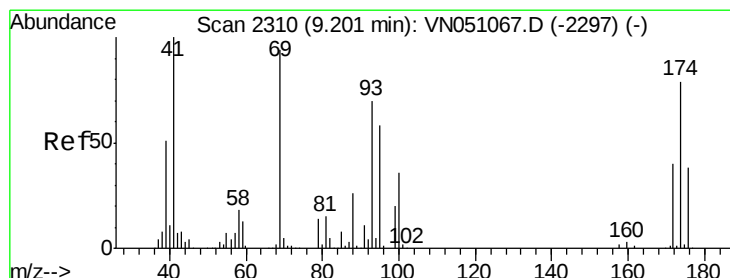
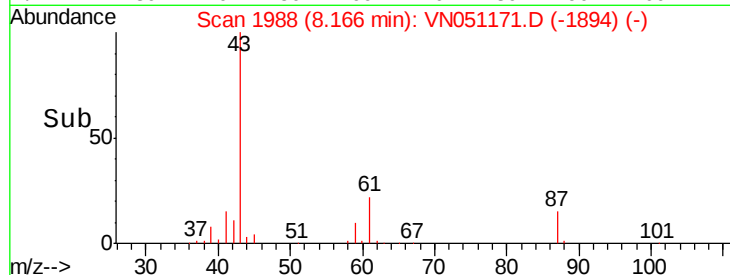
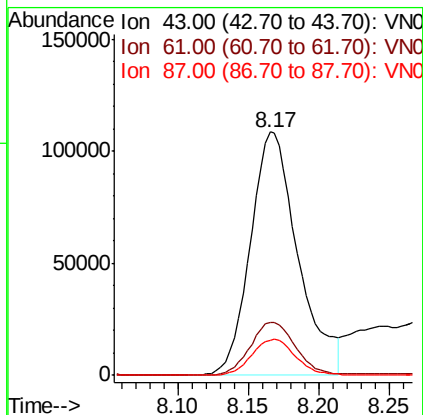
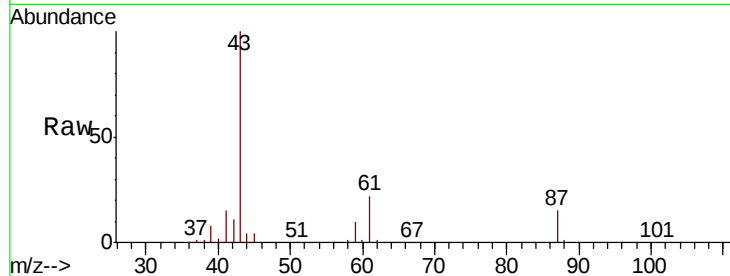


#43

Isopropyl Acetate
 Concen: 25.78 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN051171.D
 Acq: 13 Sep 2018 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112798ZHE#05

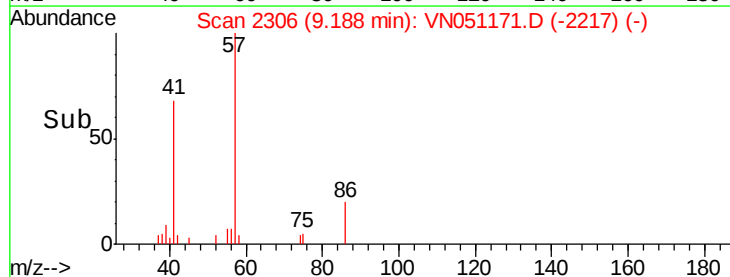
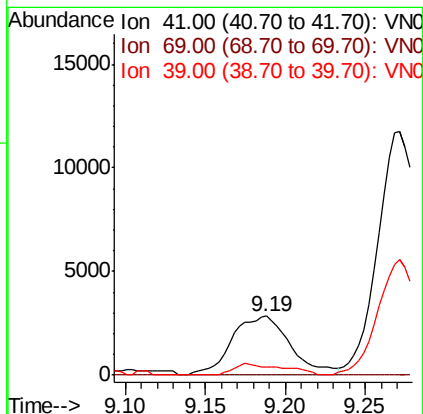
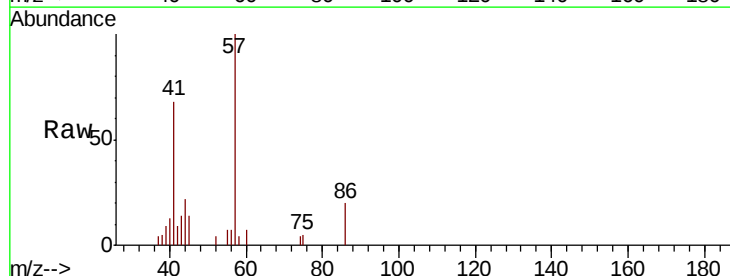
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.8	25.0	37.6#
87	13.6	11.8	17.8

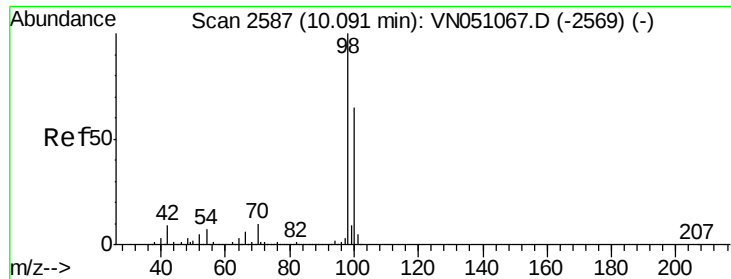


#48

Methyl methacrylate
 Concen: 1.48 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: VN051171.D
 Acq: 13 Sep 2018 15:44

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	77.7	116.5#
39	9.2	41.6	62.4#

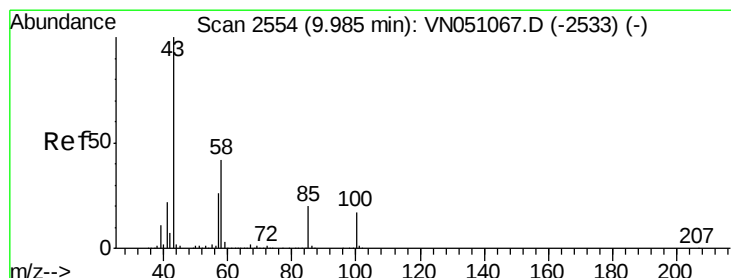
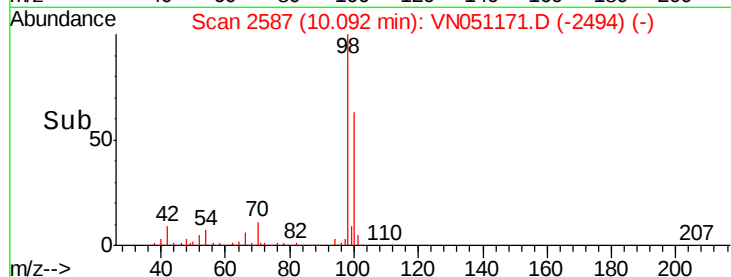
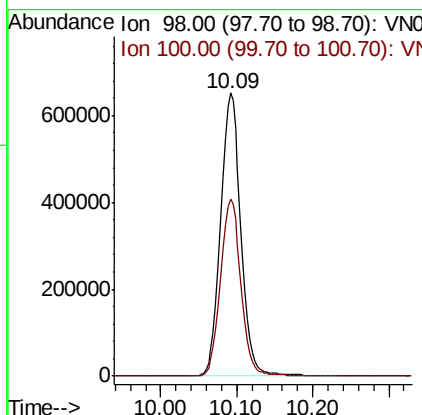
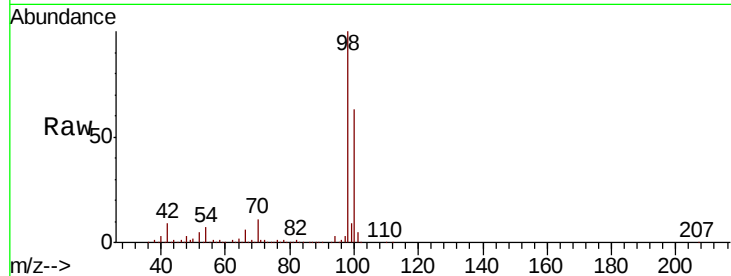




#50
Toluene-d8
Concen: 47.94 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051171.D
Acq: 13 Sep 2018 15:44

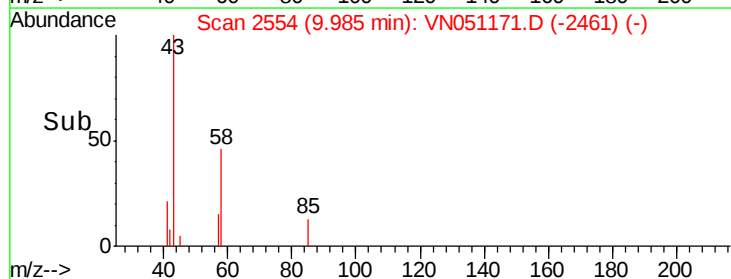
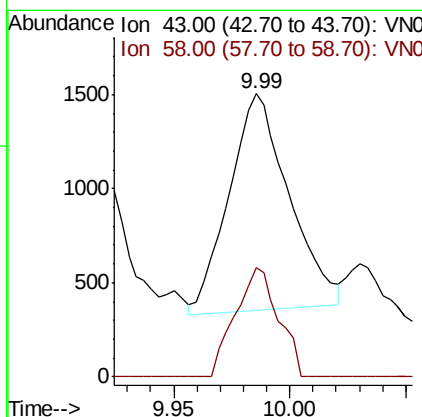
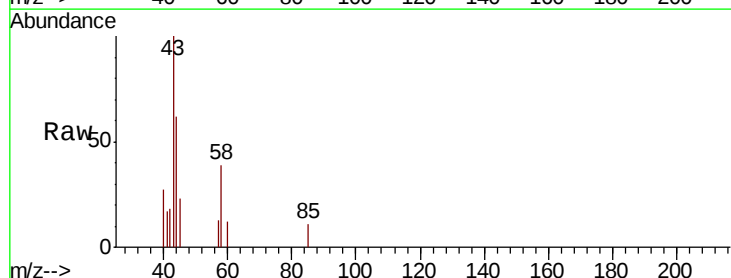
Instrument :
MSVOA_N
ClientSampleId :
PB112798ZHE#05

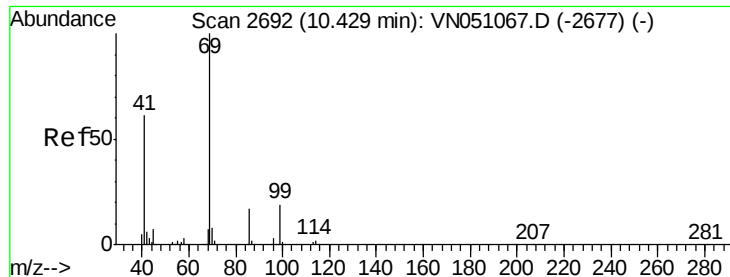
Tot Ion: 98 Resp: 1210704
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.38 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051171.D
Acq: 13 Sep 2018 15:44

Tgt Ion: 43 Resp: 2075
Ion Ratio Lower Upper
43 100
58 36.1 33.5 50.3

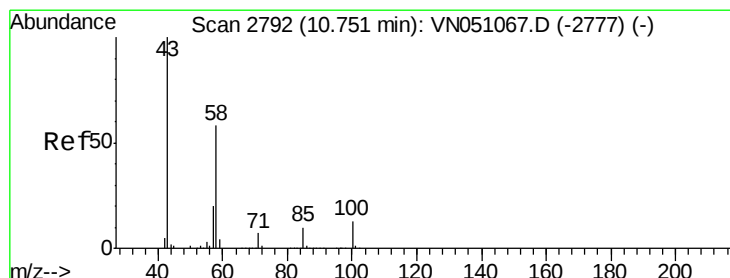
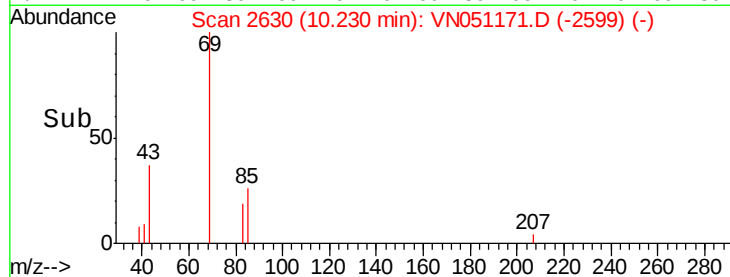
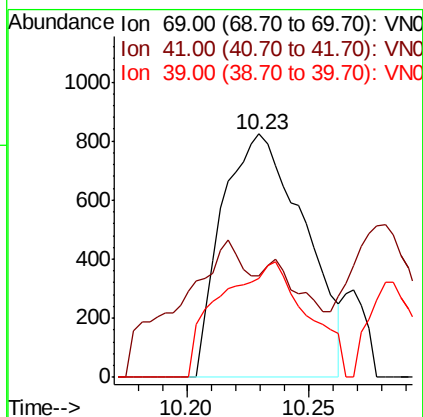
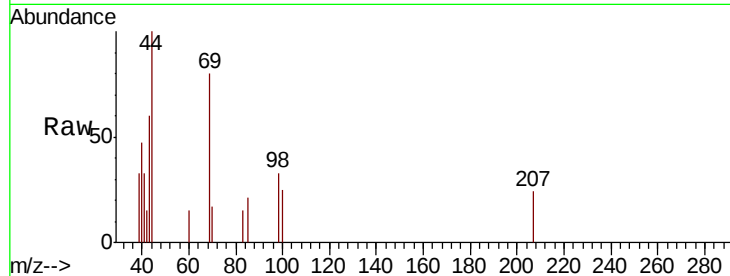




#56
Ethyl methacrylate
Concen: 2.67 ug/l
RT: 10.23 min Scan# 2630
Delta R.T. -0.20 min
Lab File: VN051171.D
Acq: 13 Sep 2018 15:44

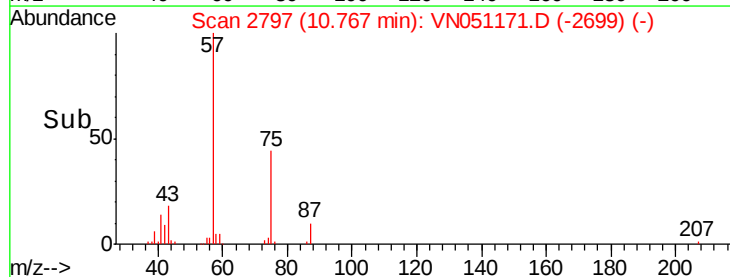
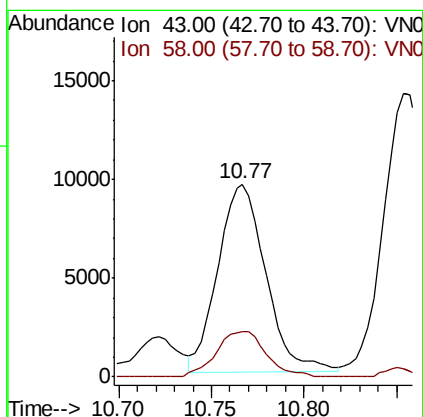
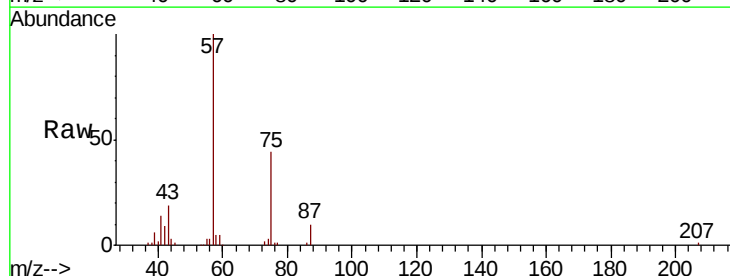
Instrument :
MSVOA_N
ClientSampleId :
PB112798ZHE#05

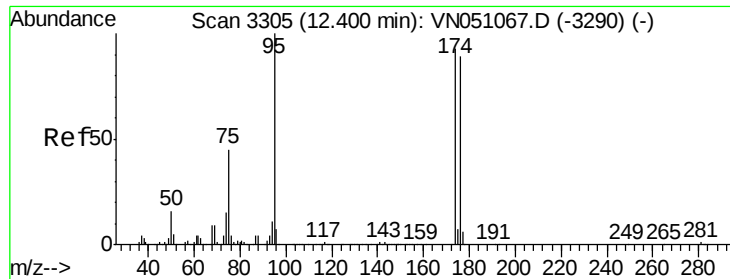
Tot Ion: 69 Resp: 1940
Ion Ratio Lower Upper
69 100
41 47.2 47.8 71.8#
39 50.2 23.0 34.4#



#59
2-Hexanone
Concen: 4.56 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051171.D
Acq: 13 Sep 2018 15:44

Tgt Ion: 43 Resp: 16983
Ion Ratio Lower Upper
43 100
58 25.3 29.3 88.0#





#62

4-Bromofluorobenzene

Concen: 36.78 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB112798ZHE#05

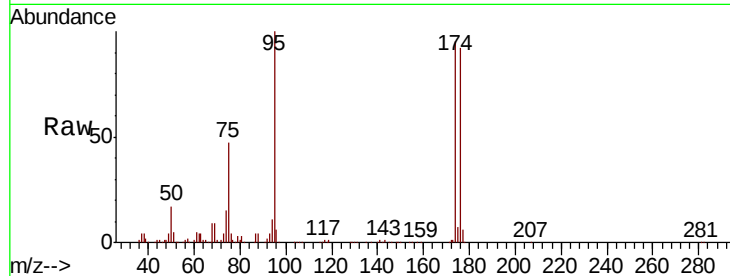
Tot Ion: 95 Resp: 307253

Ion Ratio Lower Upper

95 100

174 95.4 0.0 184.8

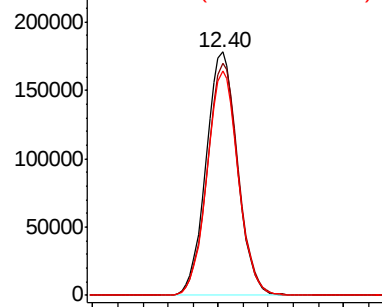
176 91.9 0.0 178.6



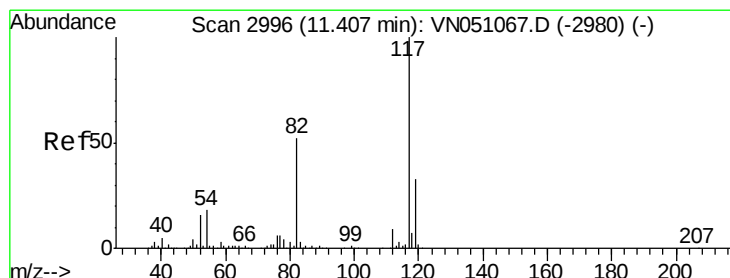
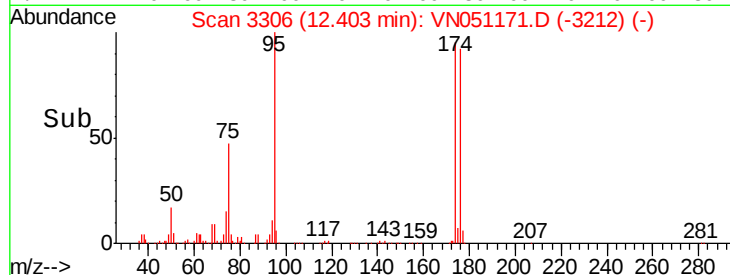
Abundance Ion 94.90 (94.60 to 95.60): VN051067.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051067.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051067.D (-3290) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

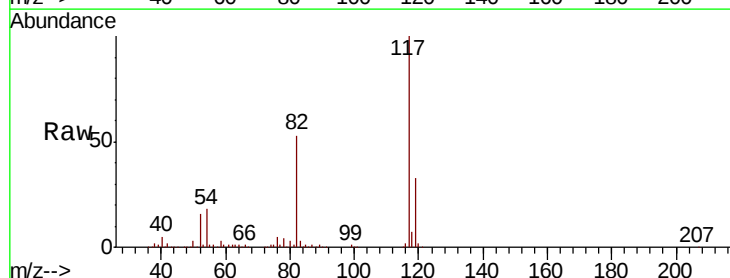
Tgt Ion: 117 Resp: 756701

Ion Ratio Lower Upper

117 100

82 52.7 41.8 62.6

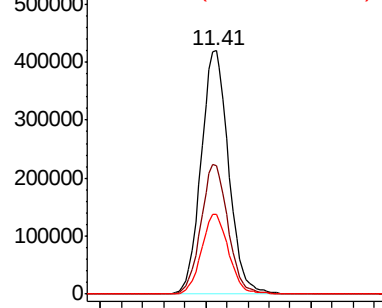
119 32.6 26.2 39.2



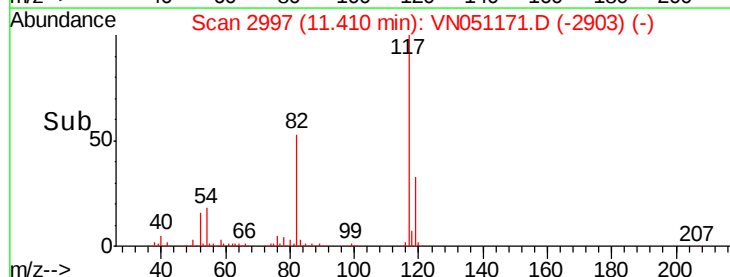
Abundance Ion 116.90 (116.60 to 117.60): VN051067.D (-2980) (-)

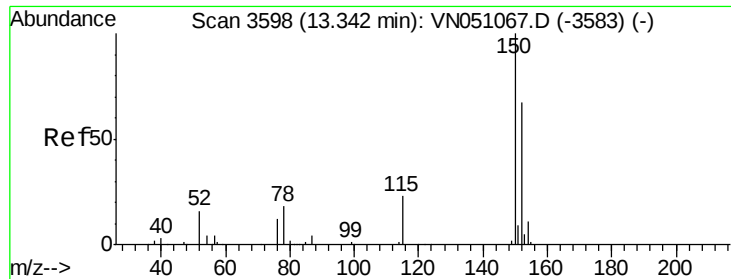
Ion 82.00 (81.70 to 82.70): VN051067.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051067.D (-2980) (-)



Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB112798ZHE#05

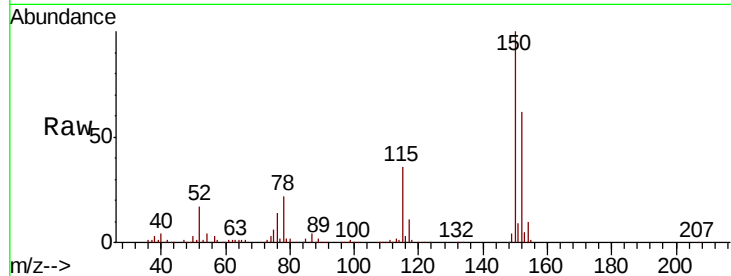
Tot Ion:152 Resp: 223873

Ion Ratio Lower Upper

152 100

115 57.1 28.2 84.7

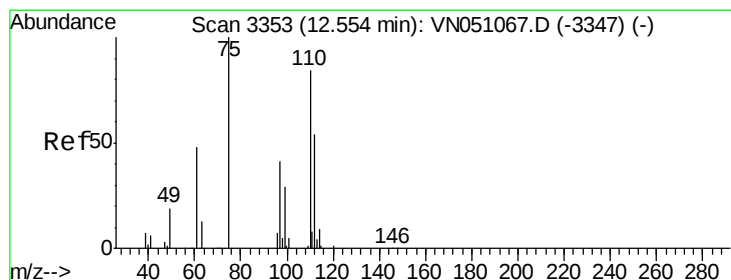
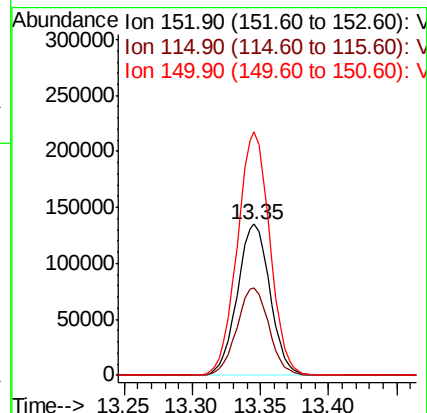
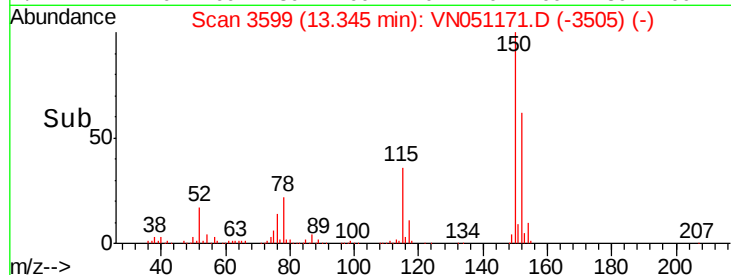
150 160.7 0.0 349.0



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: 41.57 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051171.D

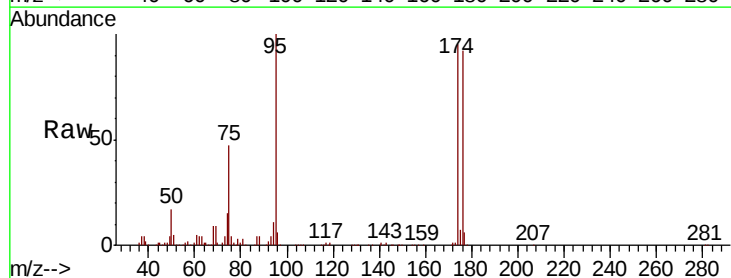
Acq: 13 Sep 2018 15:44

Tgt Ion: 75 Resp: 145150

Ion Ratio Lower Upper

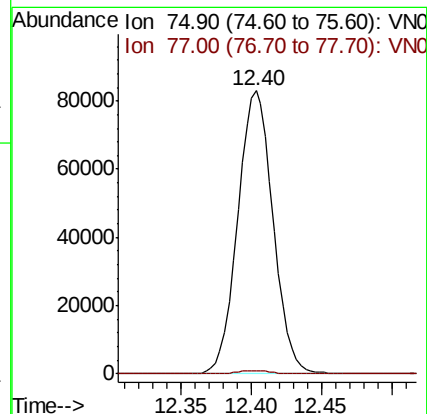
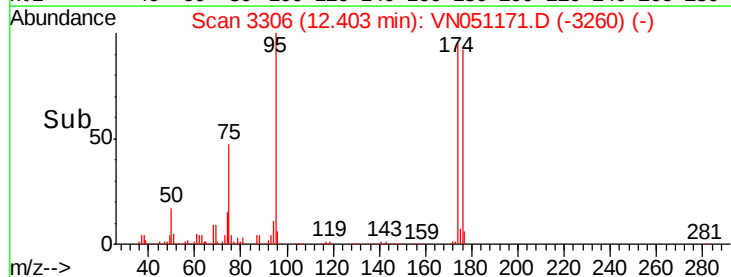
75 100

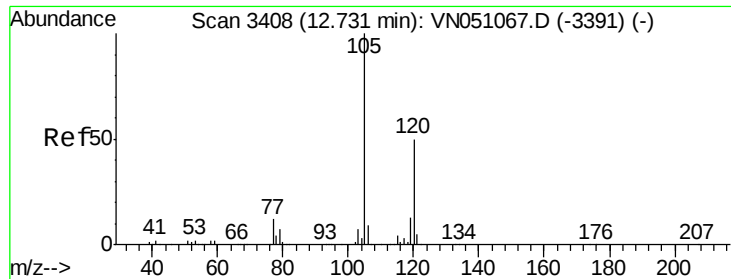
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.23 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

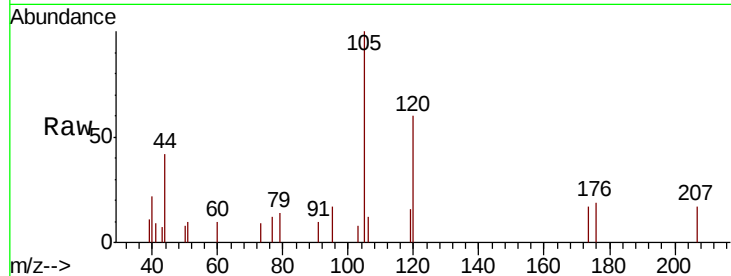
PB112798ZHE#05

Tot Ion:105 Resp: 3555

Ion Ratio Lower Upper

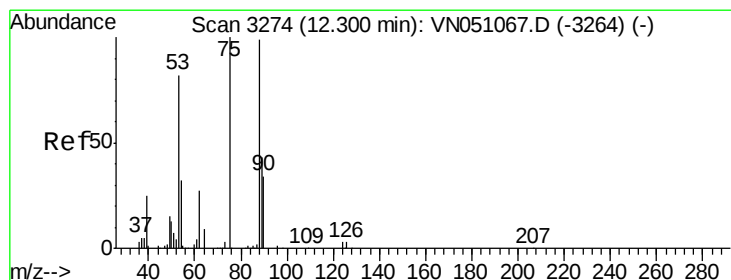
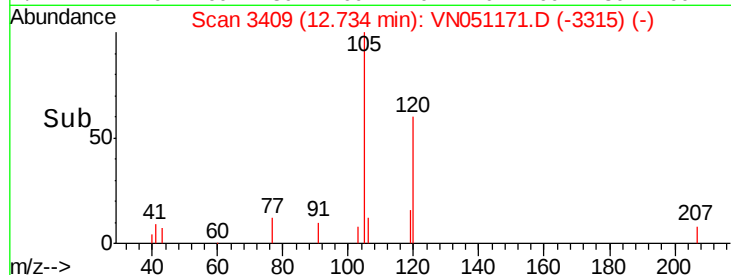
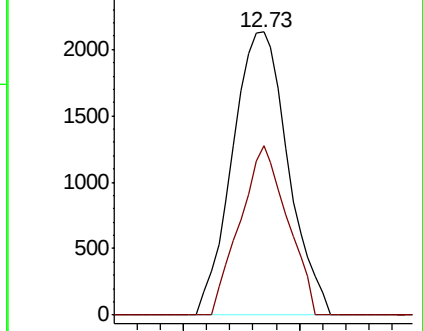
105 100

120 50.9 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 123.13 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

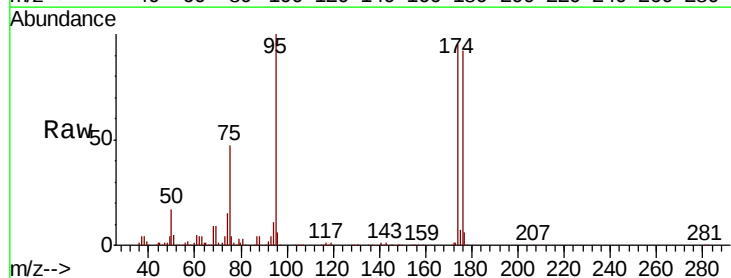
Tgt Ion: 75 Resp: 145150

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

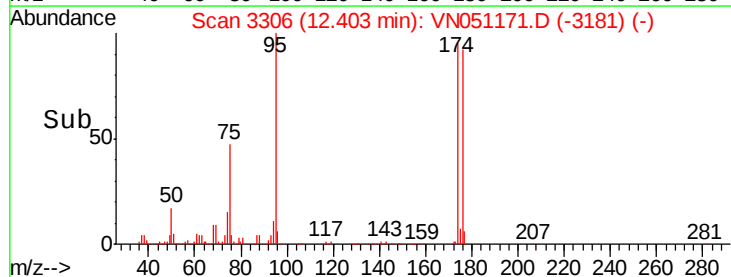
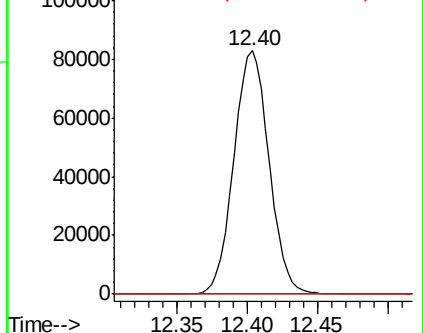
89 0.0 36.0 54.0#

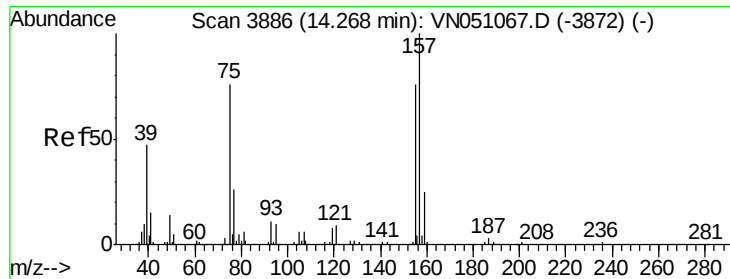


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.75 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. -0.02 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB112798ZHE#05

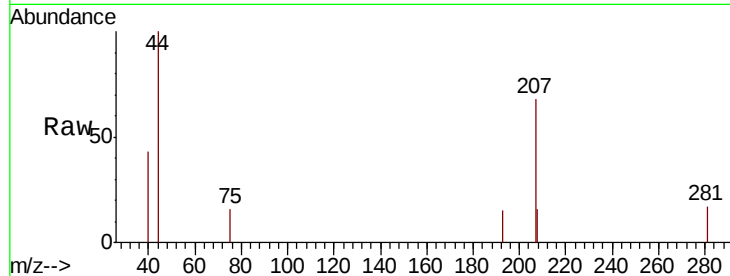
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 48.7 146.1#

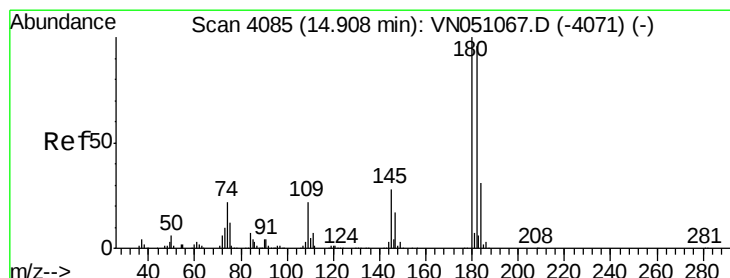
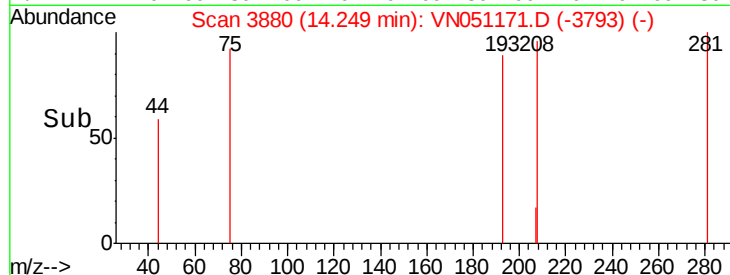
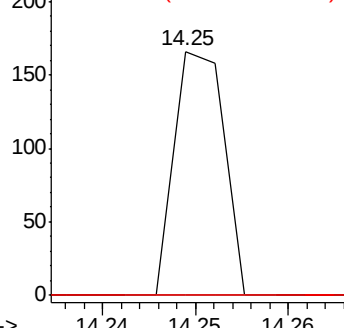
157 0.0 63.6 190.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 4.14 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

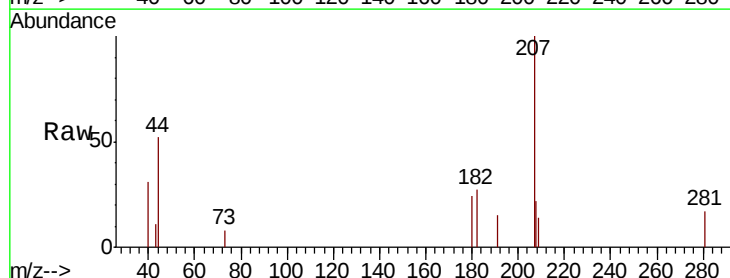
Tgt Ion: 180 Resp: 674

Ion Ratio Lower Upper

180 100

182 117.5 47.3 141.8

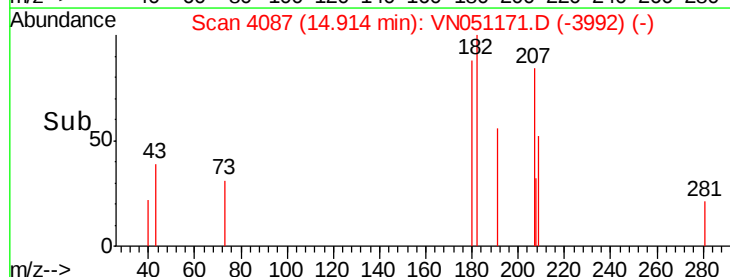
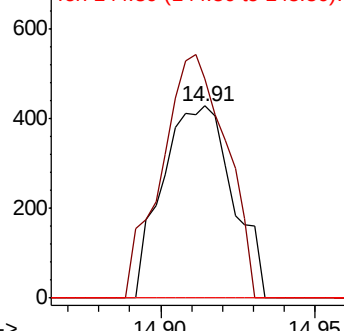
145 0.0 14.2 42.6#

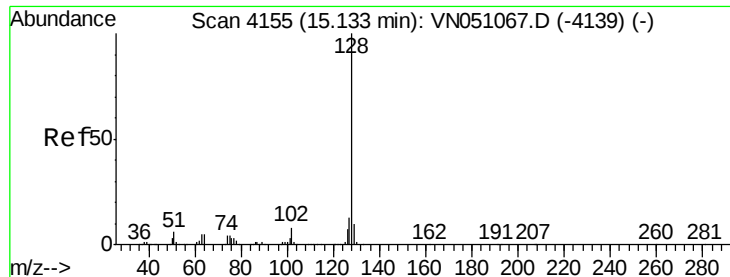


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 5.50 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB112798ZHE#05

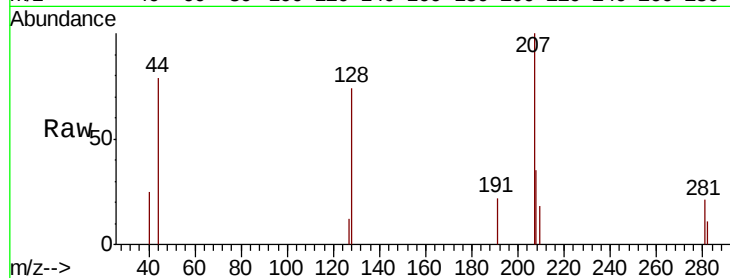
Tot Ion:128 Resp: 1535

Ion Ratio Lower Upper

128 100

127 15.3 10.6 15.8

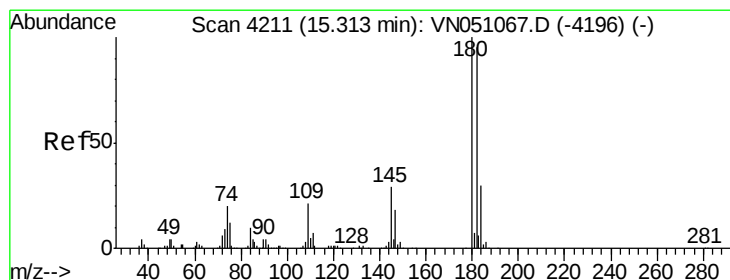
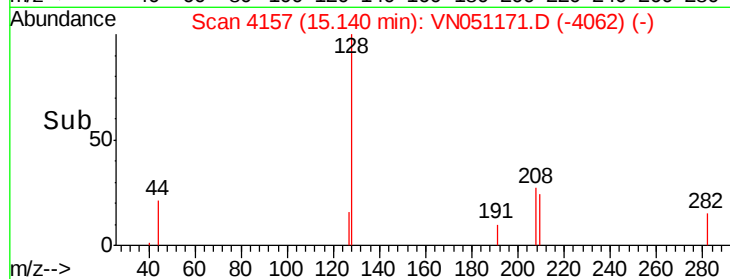
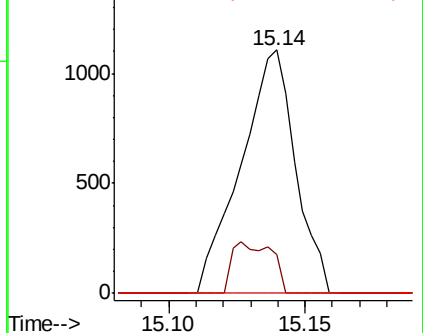
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.12 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051171.D

Acq: 13 Sep 2018 15:44

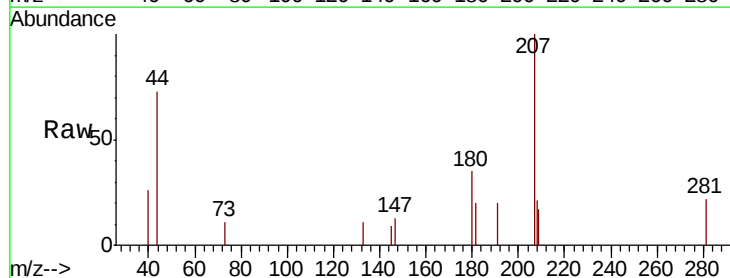
Tgt Ion:180 Resp: 722

Ion Ratio Lower Upper

180 100

182 41.1 47.8 143.3#

145 28.7 14.6 43.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

