

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051512.D
 Acq On : 26 Sep 2018 3:22
 Operator : MD\SY
 Sample : PB113167ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#06

Quant Time: Sep 26 04:14:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	620576	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1007722	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	854026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	320523	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	444189	57.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.28%	
35) Dibromofluoromethane	7.59	113	388894	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
50) Toluene-d8	10.09	98	1398491	46.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.18%	
62) 4-Bromofluorobenzene	12.40	95	385412	39.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.52%	

Target Compounds

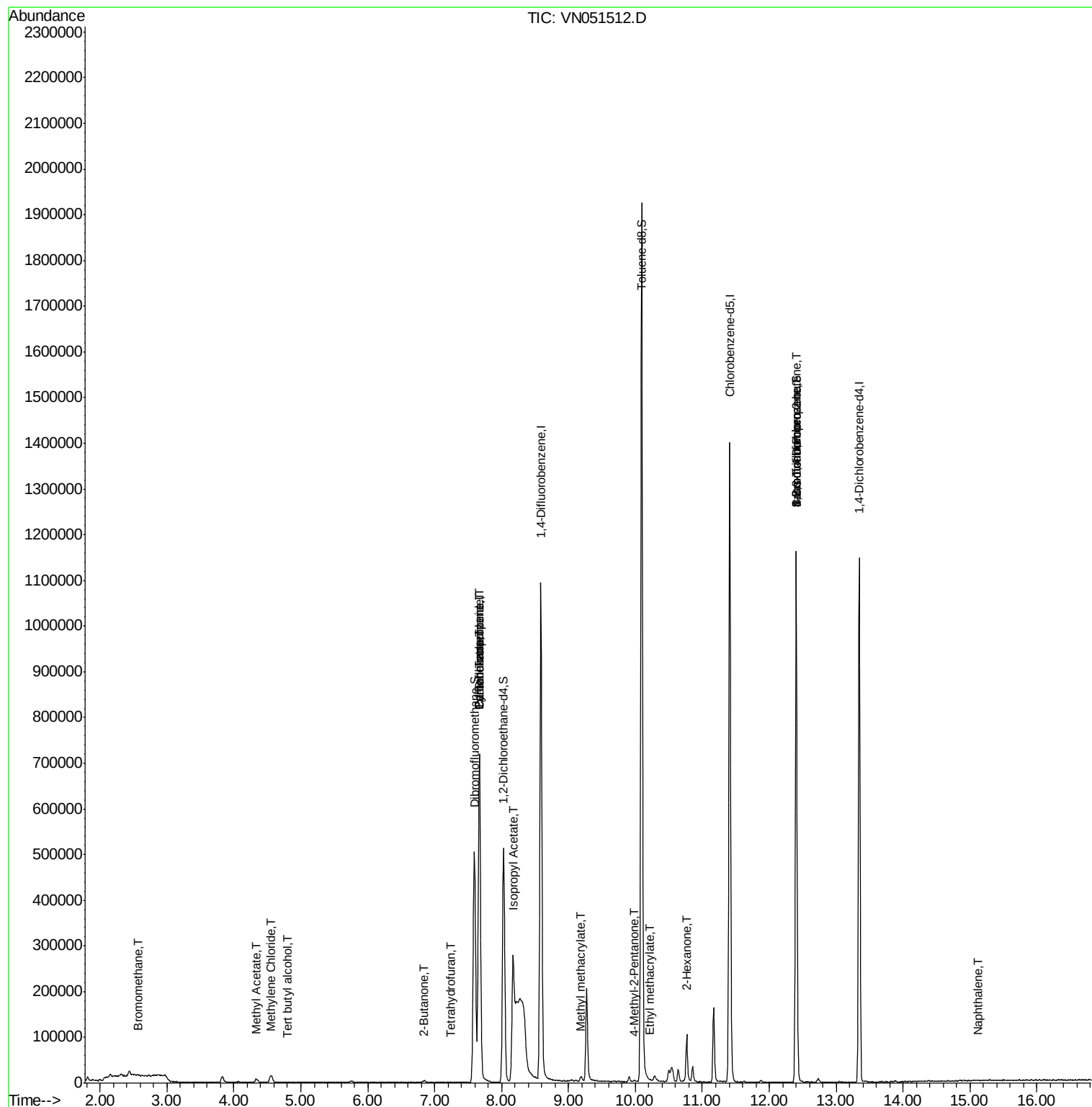
					Qvalue	
5) Bromomethane	2.57	94	959	0.216	ug/l #	50
11) Tert butyl alcohol	4.80	59	114	0.260	ug/l #	78
16) Acetone	3.82	43	21394	Below Cal		94
18) Methyl Acetate	4.33	43	16886	2.852	ug/l	96
20) Methylene Chloride	4.55	84	12360	1.607	ug/l	92
25) 2-Butanone	6.84	43	2143	0.805	ug/l	93
29) Tetrahydrofuran	7.23	42	460	0.273	ug/l	89
31) Cyclohexane	7.67	56	10763	0.879	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44681	3.829	ug/l #	49
38) Carbon Tetrachloride	7.67	117	57666	4.724	ug/l #	16
43) Isopropyl Acetate	8.17	43	352583	29.060	ug/l #	88
48) Methyl methacrylate	9.18	41	6434	1.064	ug/l #	20
51) 4-Methyl-2-Pentanone	9.98	43	2017	0.302	ug/l	95
56) Ethyl methacrylate	10.23	69	1968	0.214	ug/l #	49
59) 2-Hexanone	10.77	43	15720	3.634	ug/l #	57
71) Bromoform	12.40	173	1799	0.318	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	193968	36.454	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	193968	112.094	ug/l #	13
95) Naphthalene	15.13	128	282	8.064	ug/l #	69

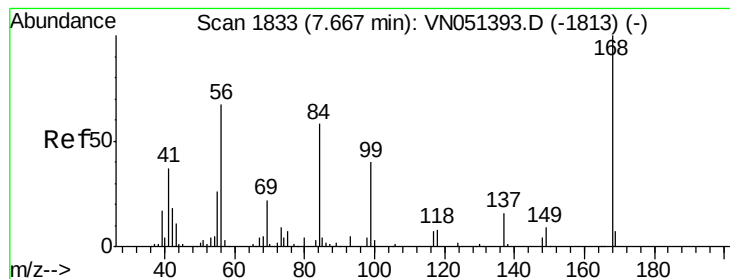
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 24 06:41:32 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: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

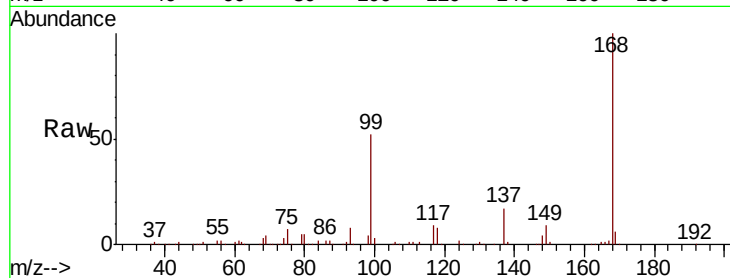
PB113167ZHE#06

Tot Ion:168 Resp: 620576

Ion Ratio Lower Upper

168 100

99 52.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

150000

100000

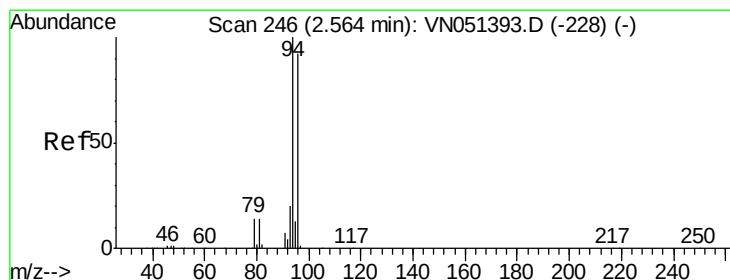
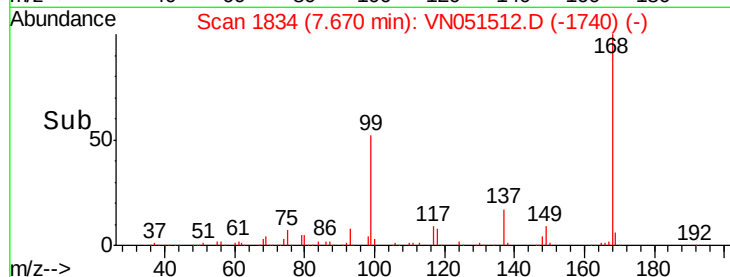
50000

0

7.60

7.70

Time-->



#5

Bromomethane

Concen: 0.216 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051512.D

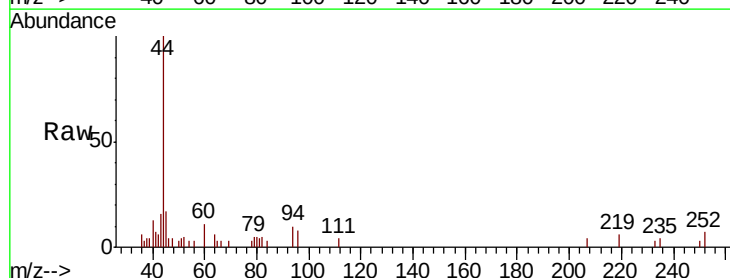
Acq: 26 Sep 2018 3:22

Tgt Ion: 94 Resp: 959

Ion Ratio Lower Upper

94 100

96 44.3 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.57

600

400

200

0

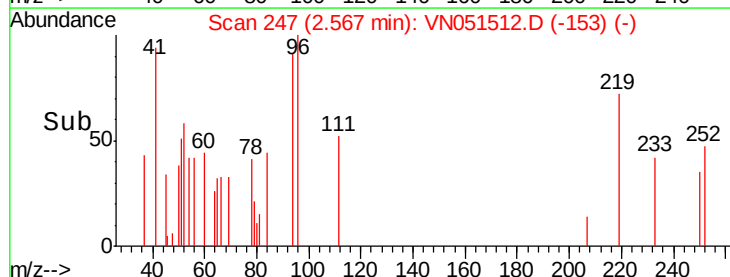
2.54

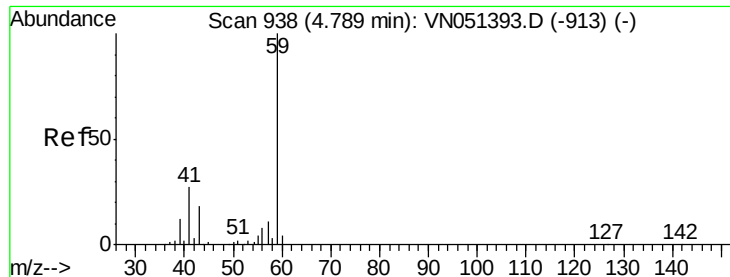
2.56

2.58

2.60

Time-->



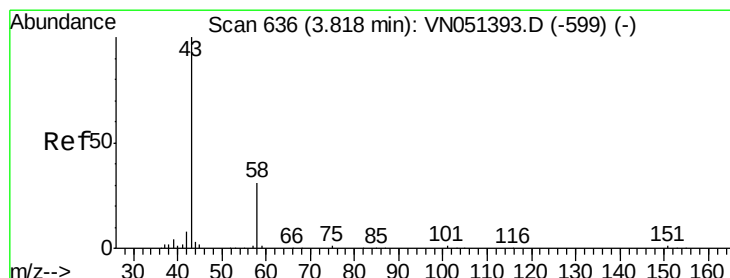
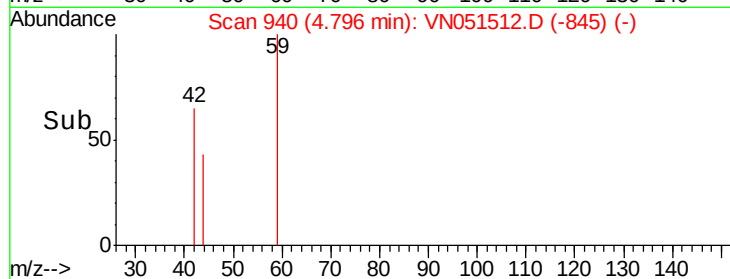
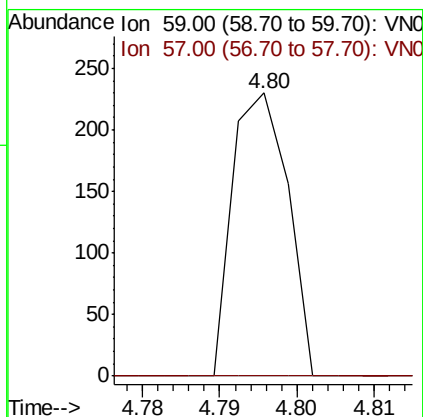
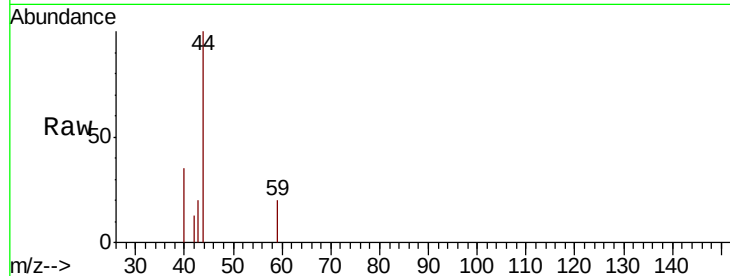


#11

Tert butyl alcohol
 Concen: 0.260 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.01 min
 Lab File: VN051512.D
 Acq: 26 Sep 2018 3:22

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#06

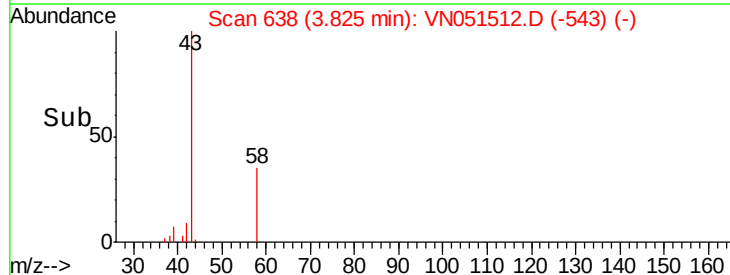
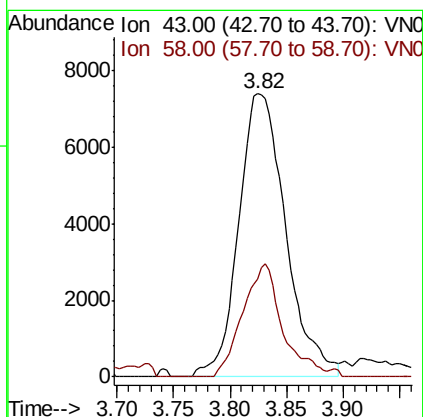
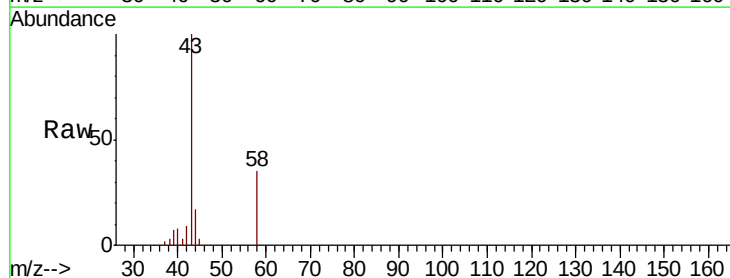
Tot Ion: 59 Resp: 114
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.2#

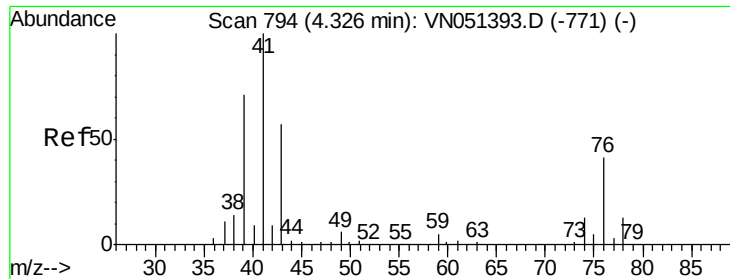


#16

Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN051512.D
 Acq: 26 Sep 2018 3:22

Tgt Ion: 43 Resp: 21394
 Ion Ratio Lower Upper
 43 100
 58 34.7 25.0 37.4

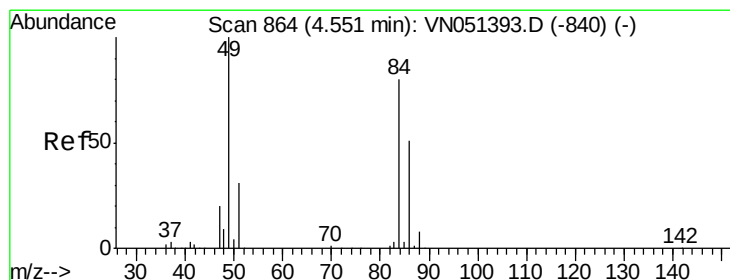
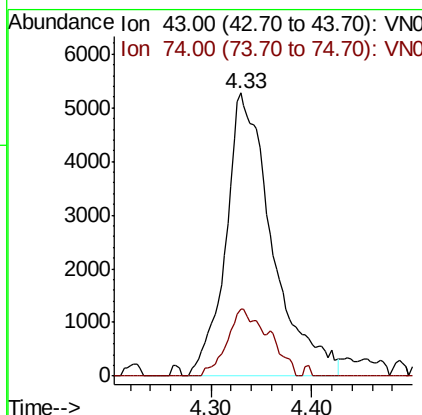
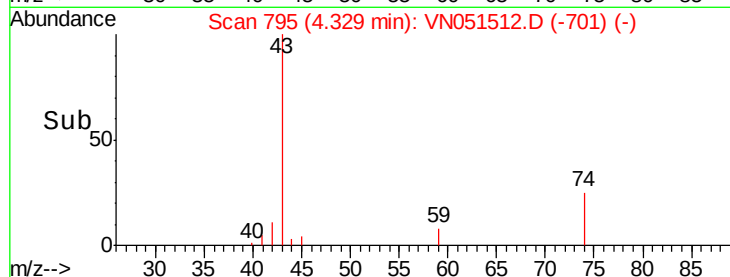
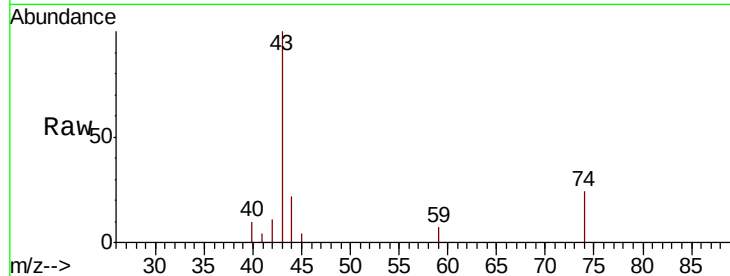




#18
Methyl Acetate
Concen: 2.852 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051512.D
Acq: 26 Sep 2018 3:22

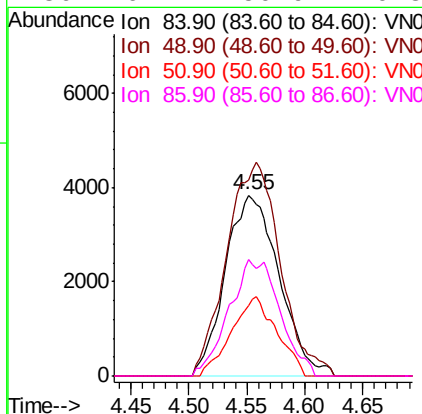
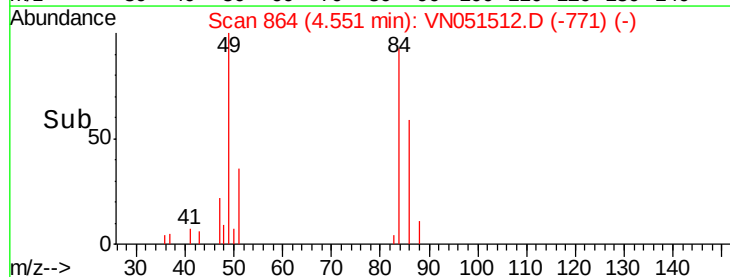
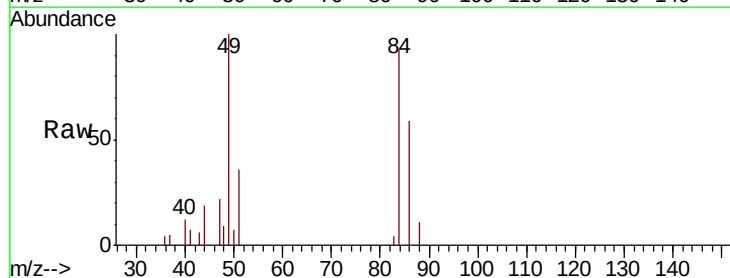
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#06

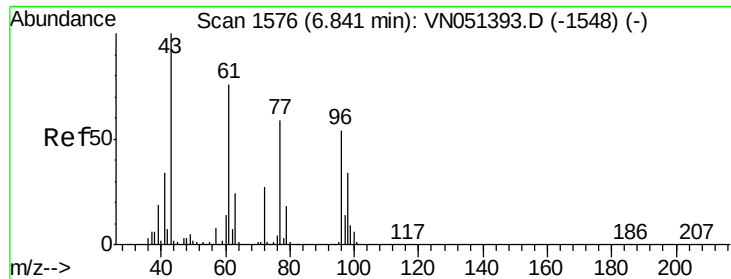
Tot Ion: 43 Resp: 16886
Ion Ratio Lower Upper
43 100
74 21.3 18.8 28.2



#20
Methylene Chloride
Concen: 1.607 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051512.D
Acq: 26 Sep 2018 3:22

Tgt Ion: 84 Resp: 12360
Ion Ratio Lower Upper
84 100
49 107.9 99.9 149.9
51 39.1 31.4 47.2
86 64.1 50.9 76.3





#25

2-Butanone

Concen: 0.805 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

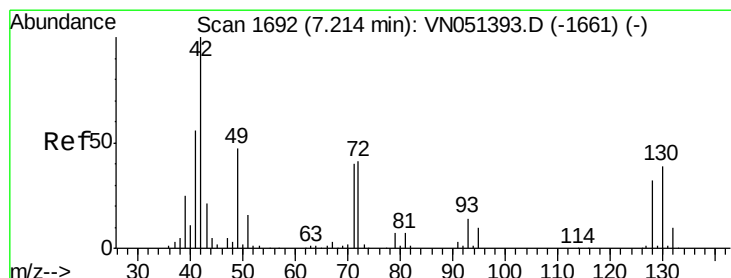
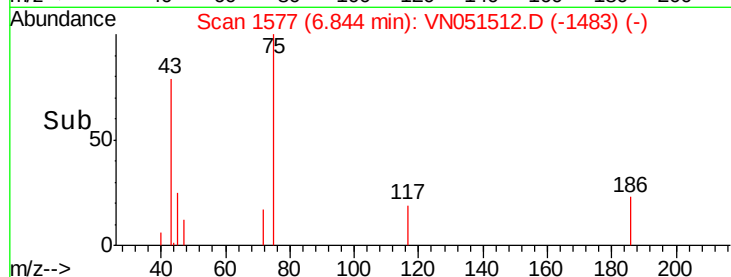
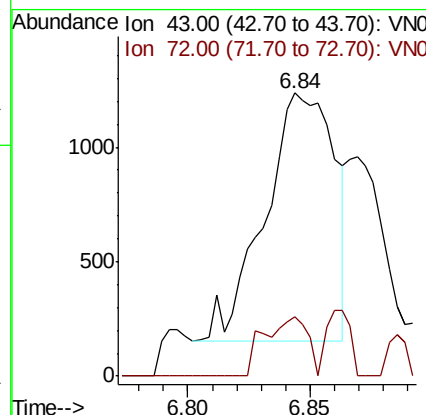
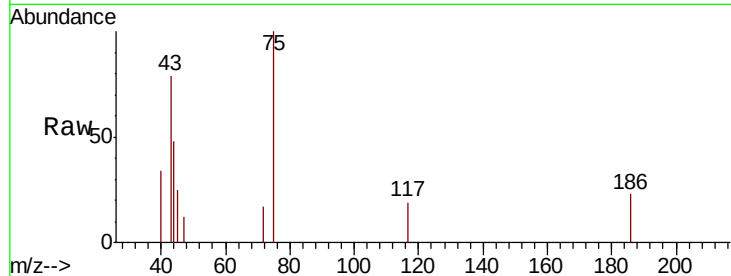
PB113167ZHE#06

Tot Ion: 43 Resp: 2143

Ion Ratio Lower Upper

43 100

72 23.8 21.8 32.6



#29

Tetrahydrofuran

Concen: 0.273 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

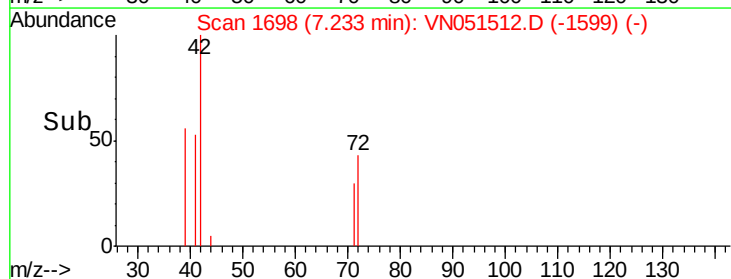
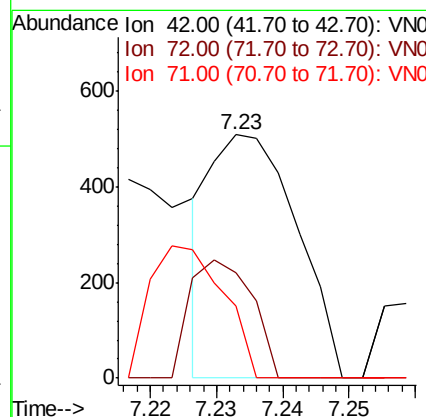
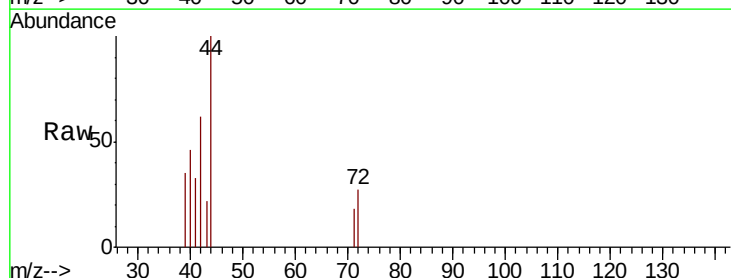
Tgt Ion: 42 Resp: 460

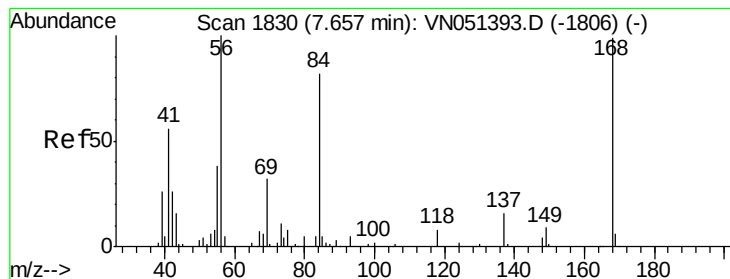
Ion Ratio Lower Upper

42 100

72 35.2 34.3 51.5

71 46.3 32.2 48.4





#31

Cyclohexane

Concen: 0.879 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#06

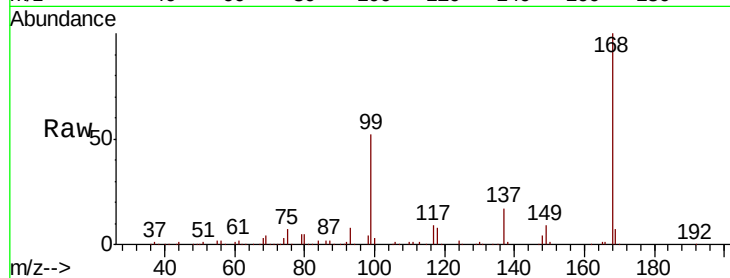
Tot Ion: 56 Resp: 10763

Ion Ratio Lower Upper

56 100

69 216.4 25.8 38.6#

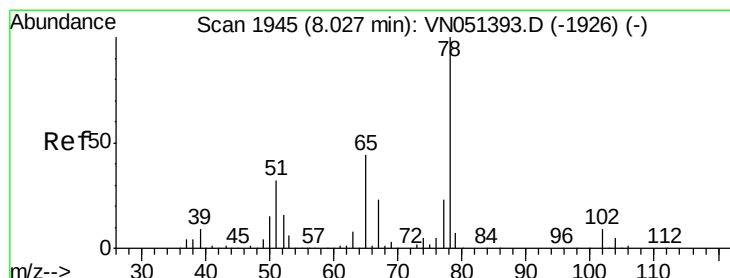
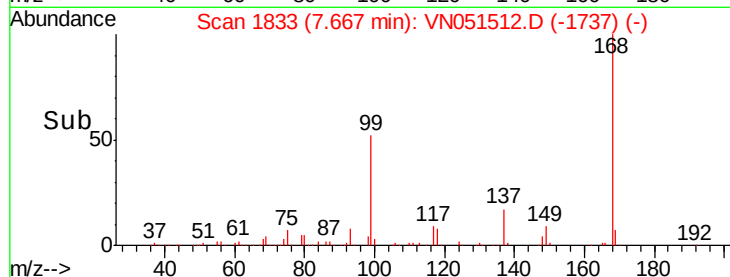
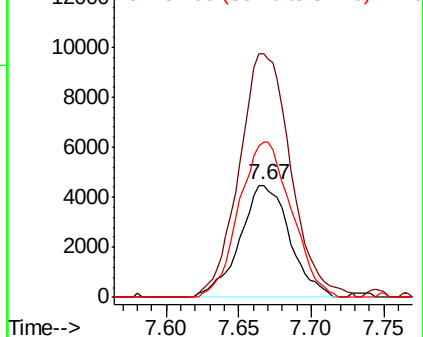
84 138.7 66.0 99.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 57.139 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051512.D

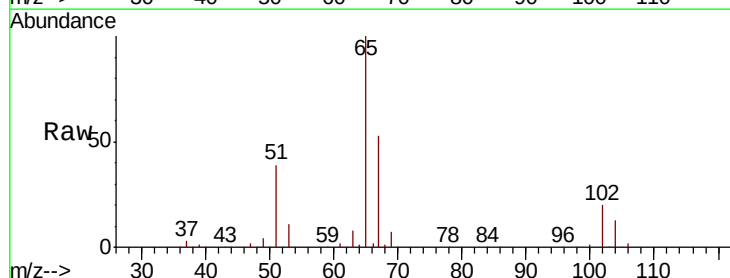
Acq: 26 Sep 2018 3:22

Tgt Ion: 65 Resp: 444189

Ion Ratio Lower Upper

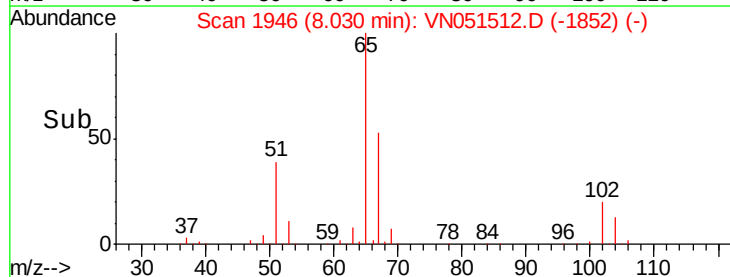
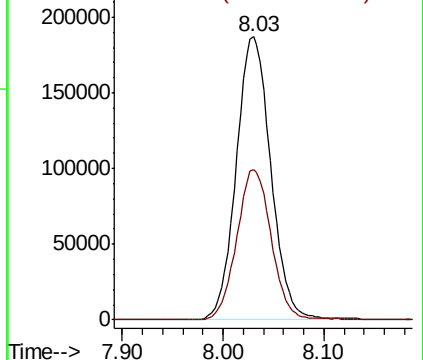
65 100

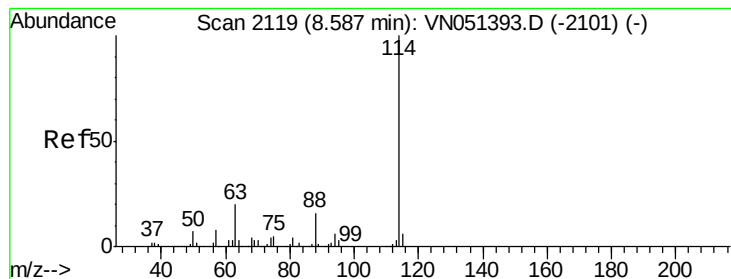
67 53.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2120

Delta R.T. 0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

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PB113167ZHE#06

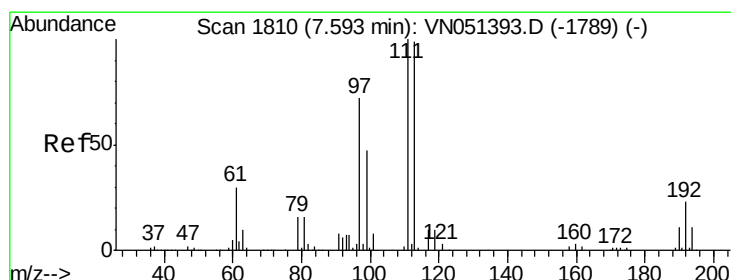
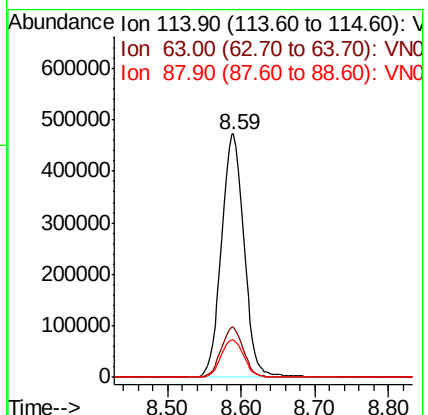
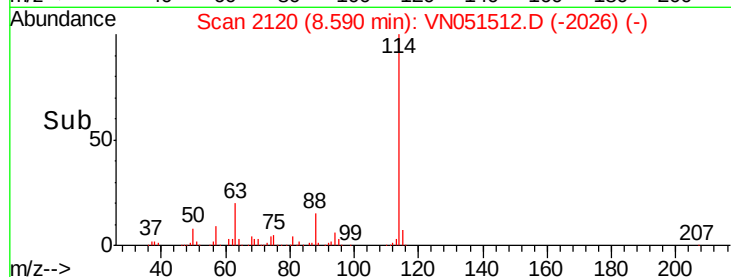
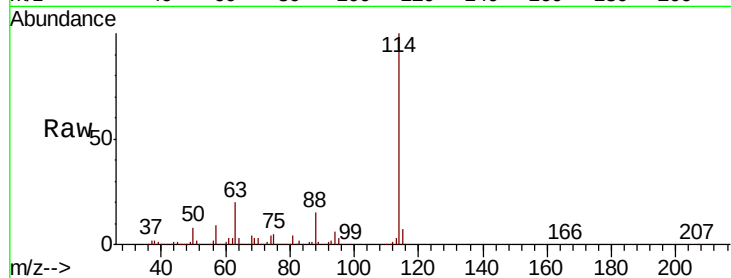
Tot Ion:114 Resp: 1007722

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.2

88 15.4 0.0 31.4



#35

Dibromofluoromethane

Concen: 48.260 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

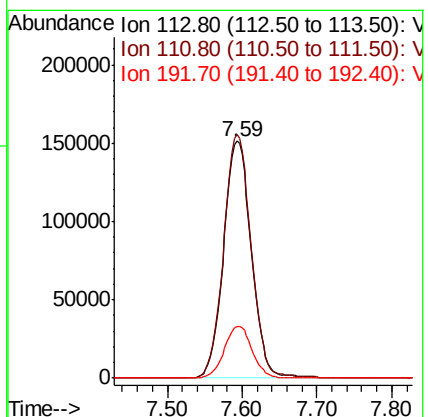
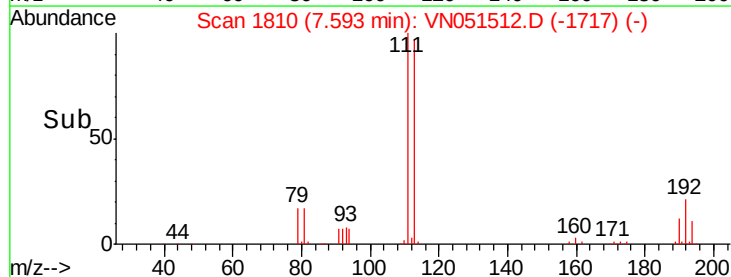
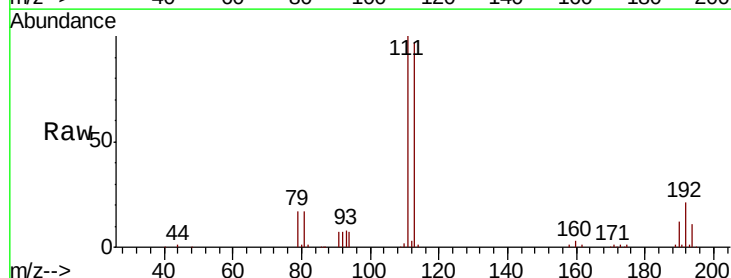
Tgt Ion:113 Resp: 388894

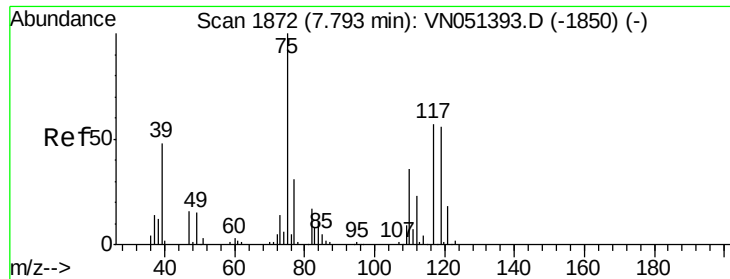
Ion Ratio Lower Upper

113 100

111 102.0 82.6 123.8

192 21.9 18.0 27.0





#36

1,1-Dichloropropene

Concen: 3.829 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#06

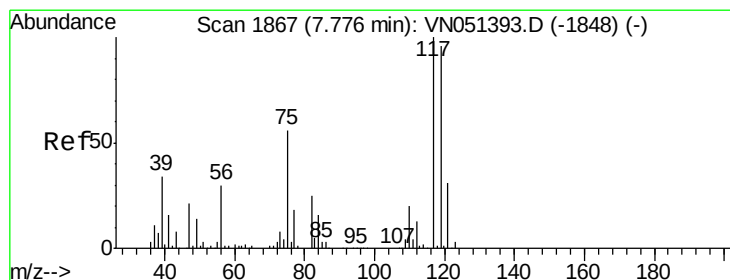
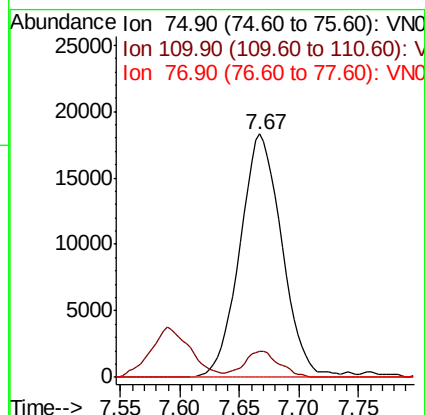
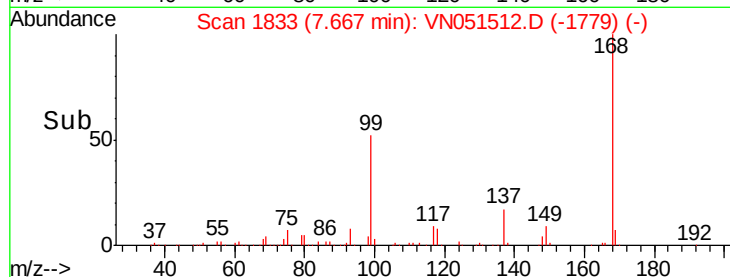
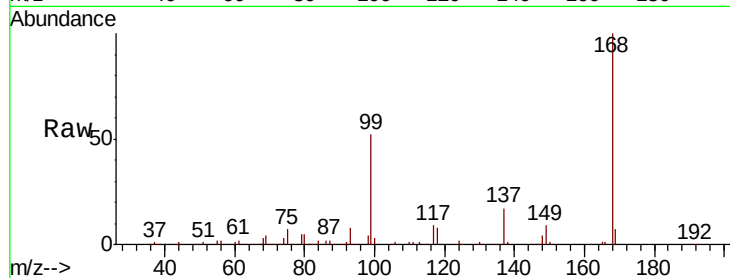
Tot Ion: 75 Resp: 44681

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.3#

77 0.0 25.6 38.4#



#38

Carbon Tetrachloride

Concen: 4.724 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

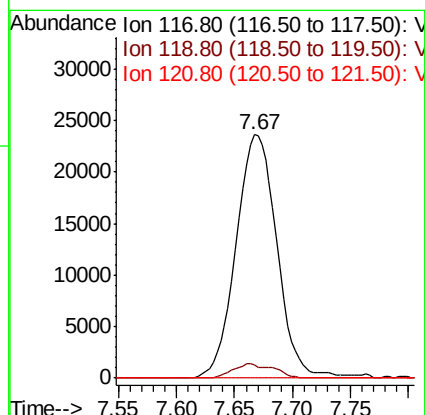
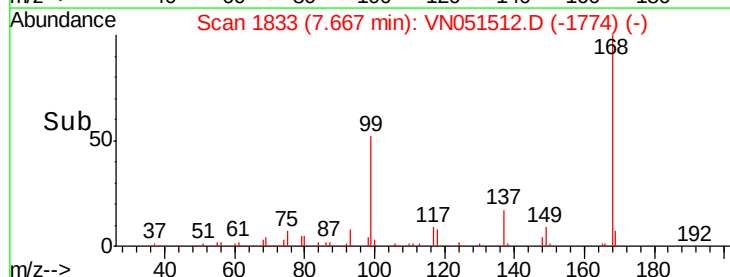
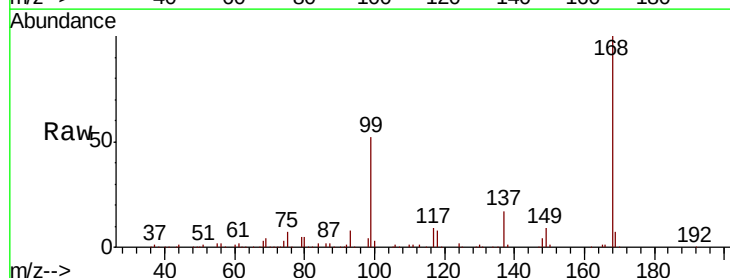
Tgt Ion: 117 Resp: 57666

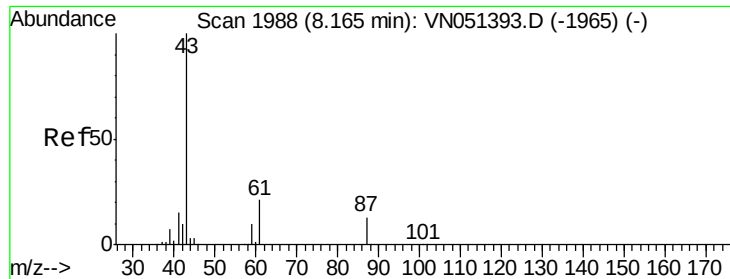
Ion Ratio Lower Upper

117 100

119 5.2 76.9 115.3#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 29.060 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#06

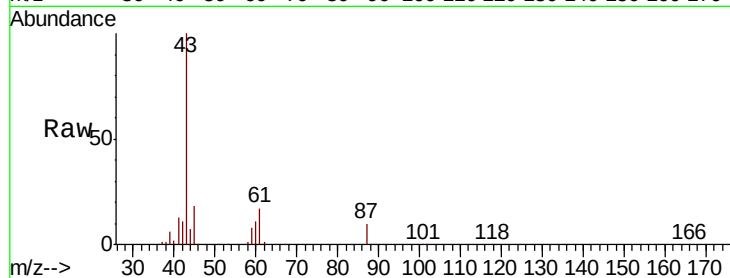
Tot Ion: 43 Resp: 352583

Ion Ratio Lower Upper

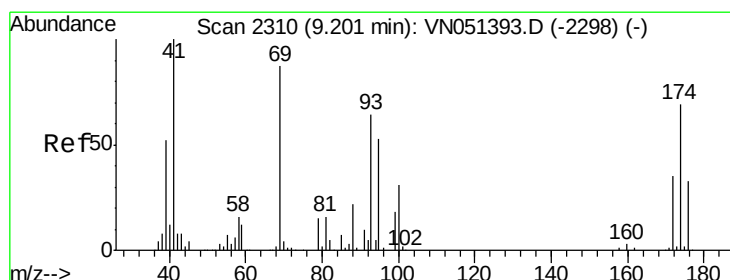
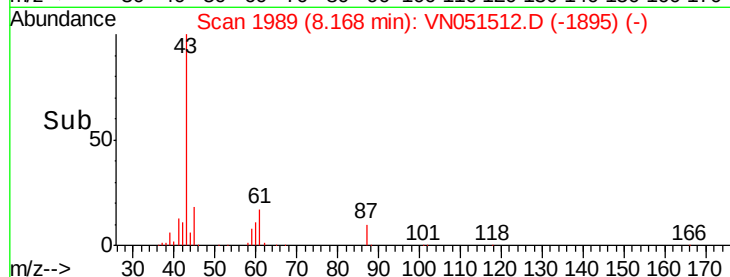
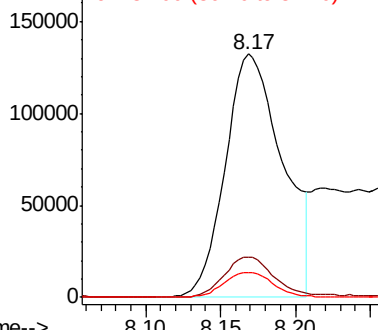
43 100

61 15.1 16.8 25.2#

87 9.0 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.064 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

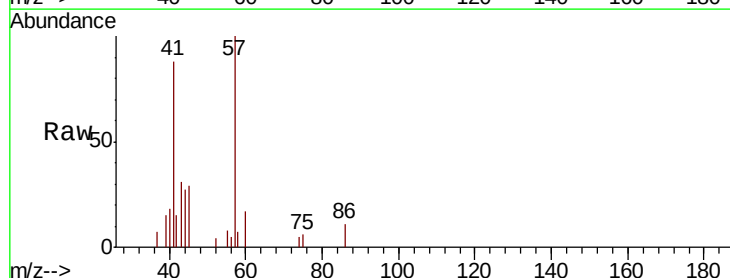
Tgt Ion: 41 Resp: 6434

Ion Ratio Lower Upper

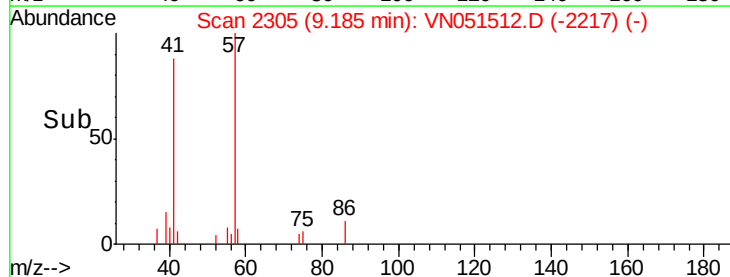
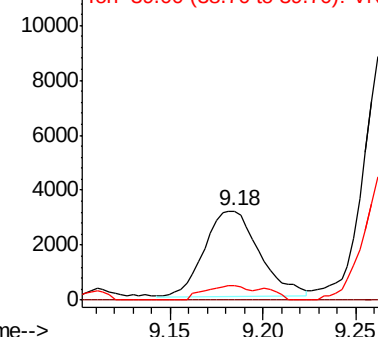
41 100

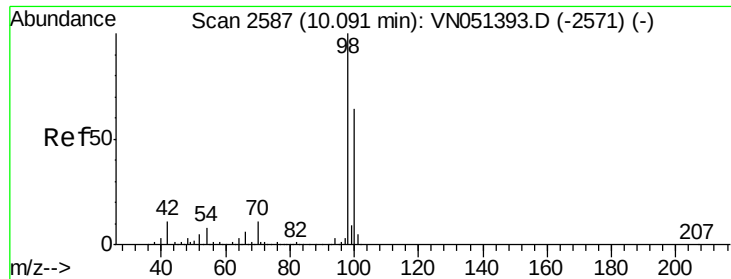
69 0.0 70.4 105.6#

39 13.6 43.8 65.8#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 46.087 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

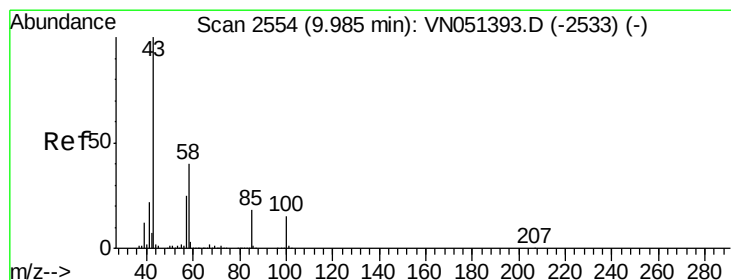
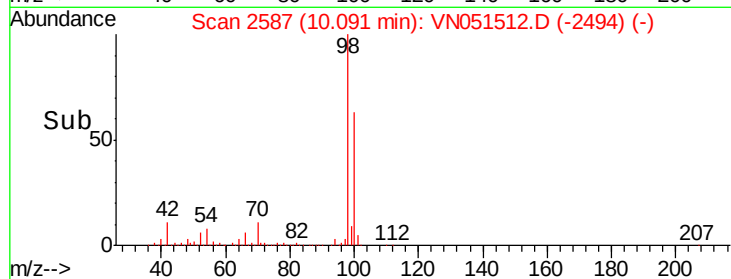
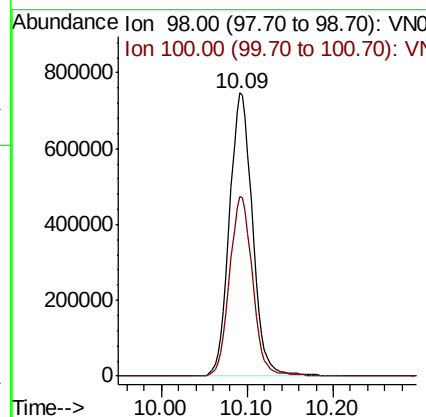
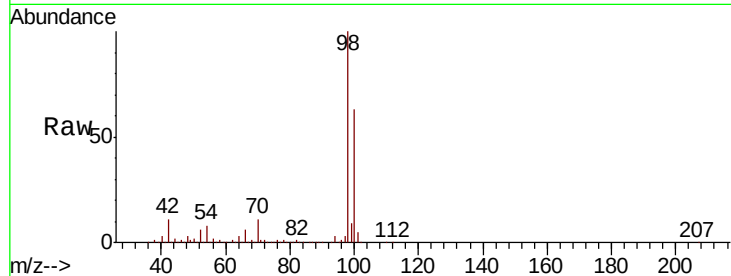
PB113167ZHE#06

Tot Ion: 98 Resp: 1398491

Ion Ratio Lower Upper

98 100

100 63.2 50.6 75.8



#51

4-Methyl-2-Pentanone

Concen: 0.302 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051512.D

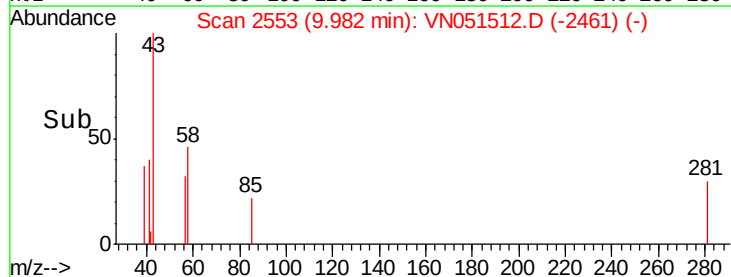
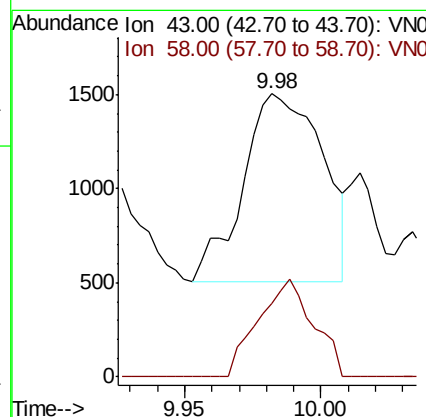
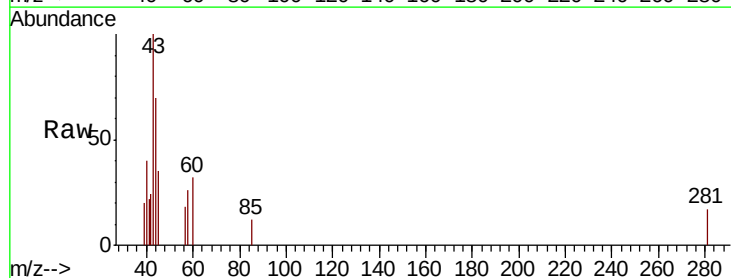
Acq: 26 Sep 2018 3:22

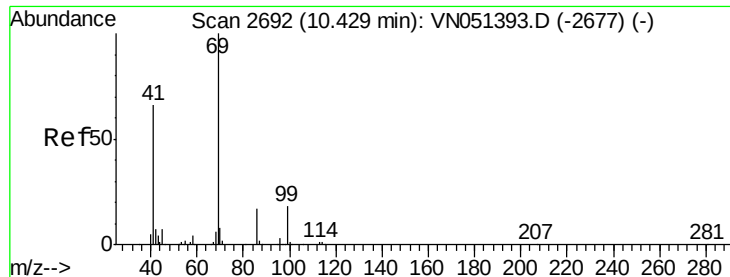
Tgt Ion: 43 Resp: 2017

Ion Ratio Lower Upper

43 100

58 36.1 31.5 47.3





#56

Ethyl methacrylate

Concen: 0.214 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#06

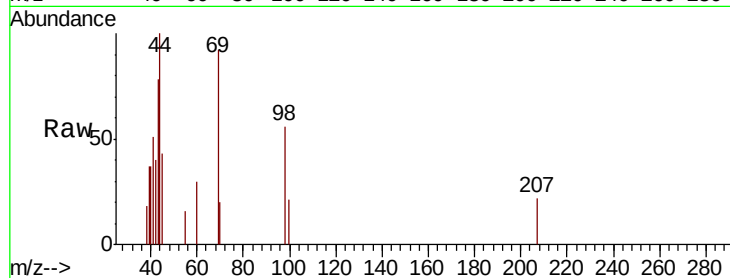
Tot Ion: 69 Resp: 1968

Ion Ratio Lower Upper

69 100

41 15.5 52.4 78.6#

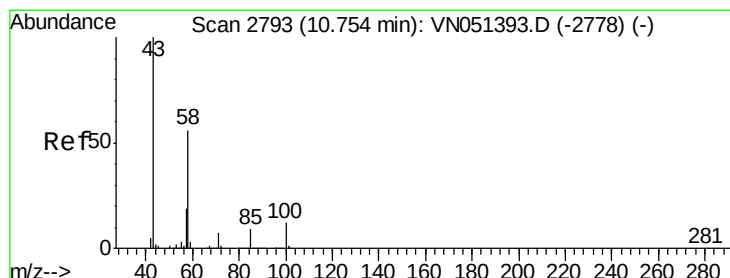
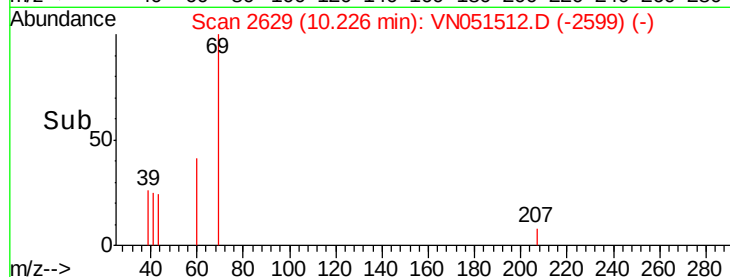
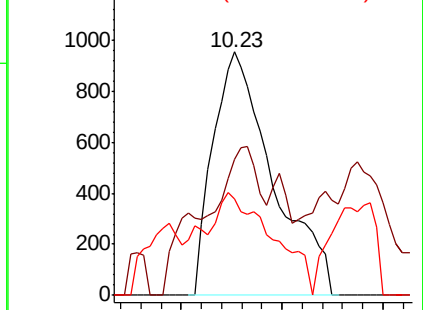
39 47.4 26.3 39.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.634 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051512.D

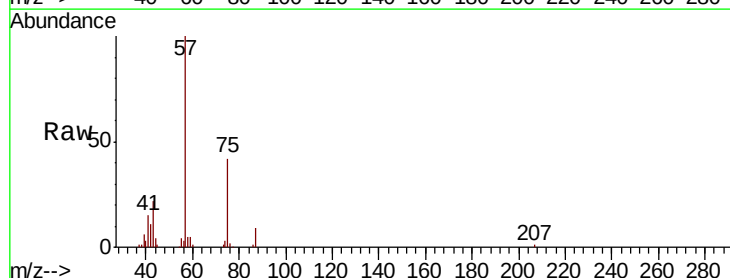
Acq: 26 Sep 2018 3:22

Tgt Ion: 43 Resp: 15720

Ion Ratio Lower Upper

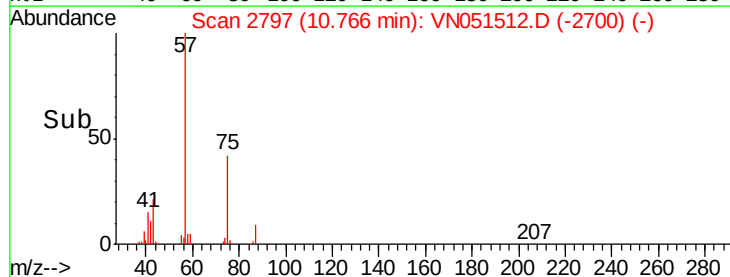
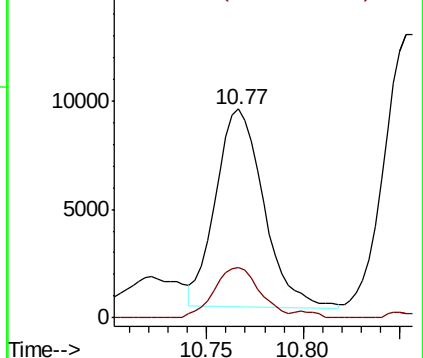
43 100

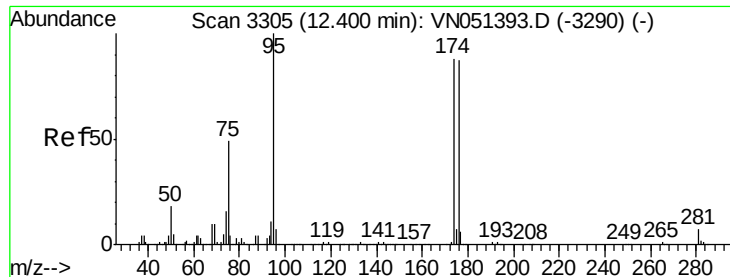
58 24.1 27.7 83.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 39.262 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#06

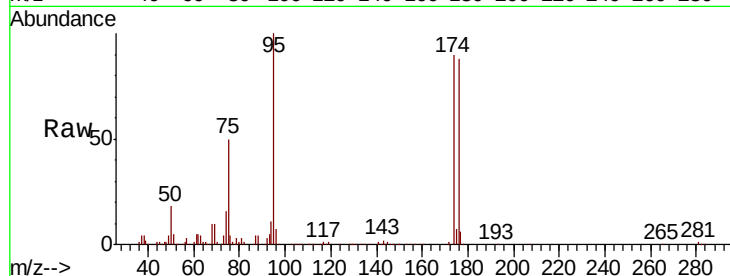
Tot Ion: 95 Resp: 385412

Ion Ratio Lower Upper

95 100

174 90.5 0.0 181.6

176 87.6 0.0 176.4

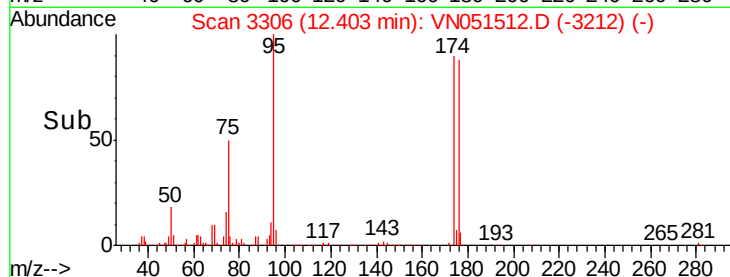


Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

Time--> 12.30 12.40 12.50

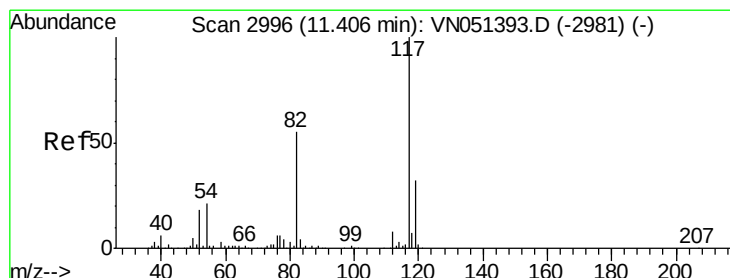


Abundance Ion 94.90 (94.60 to 95.60): VN051512.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN051512.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN051512.D (-3212) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

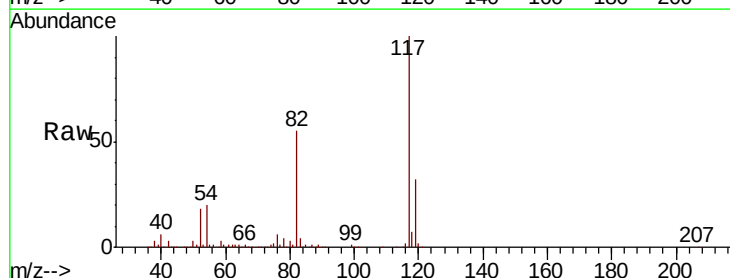
Tgt Ion: 117 Resp: 854026

Ion Ratio Lower Upper

117 100

82 55.2 44.2 66.2

119 32.3 25.9 38.9

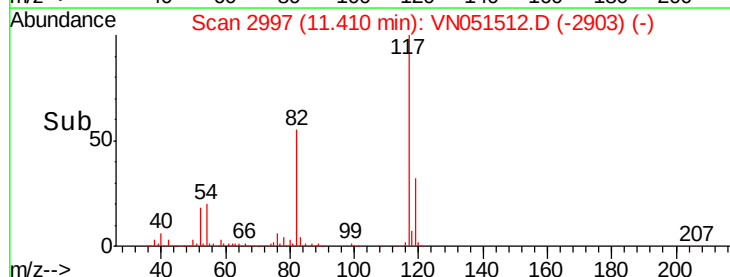


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)

Time--> 11.30 11.40 11.50

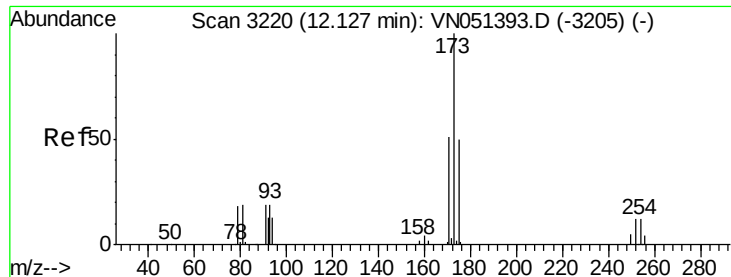


Abundance Ion 116.90 (116.60 to 117.60): VN051512.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN051512.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN051512.D (-2903) (-)

Time--> 11.30 11.40 11.50



#71

Bromoform

Concen: 0.318 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#06

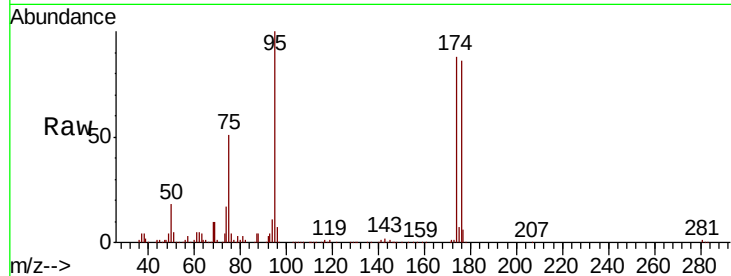
Tot Ion:173 Resp: 1799

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.3#

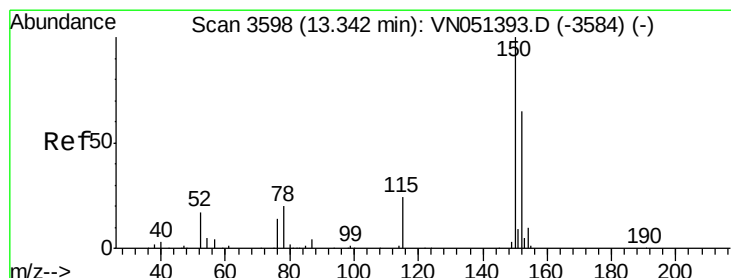
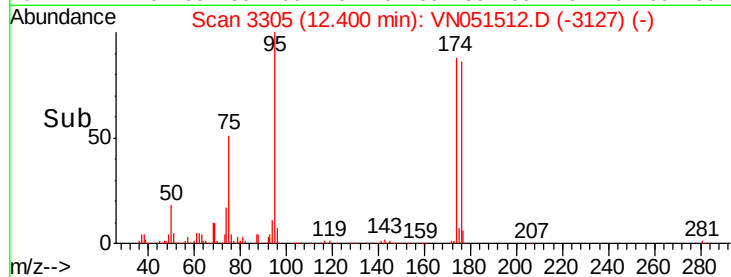
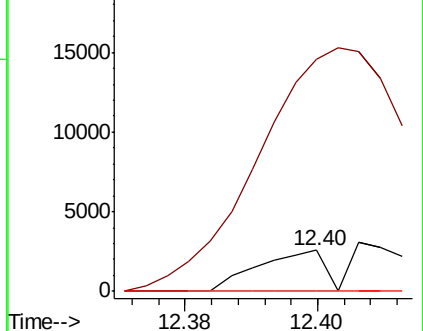
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

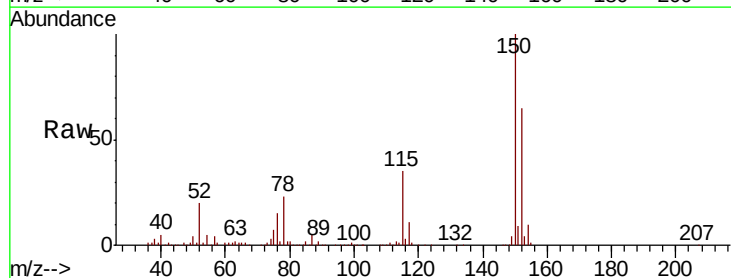
Tgt Ion:152 Resp: 320523

Ion Ratio Lower Upper

152 100

115 55.7 28.3 84.9

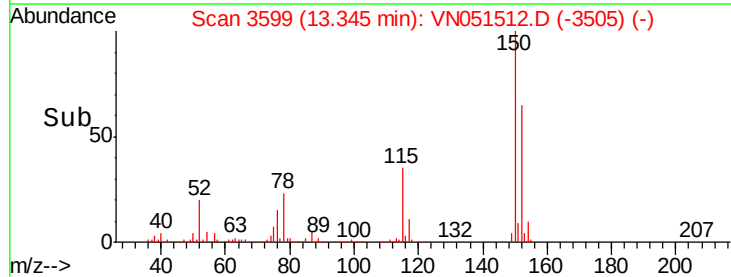
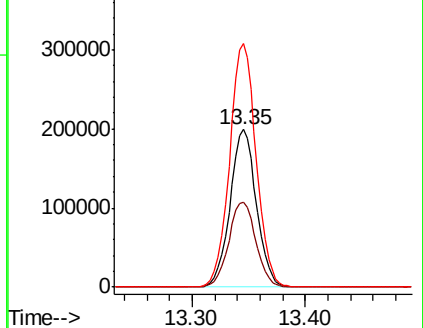
150 155.9 0.0 353.6

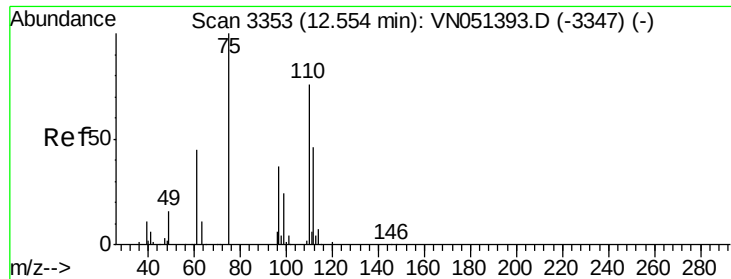


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.454 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

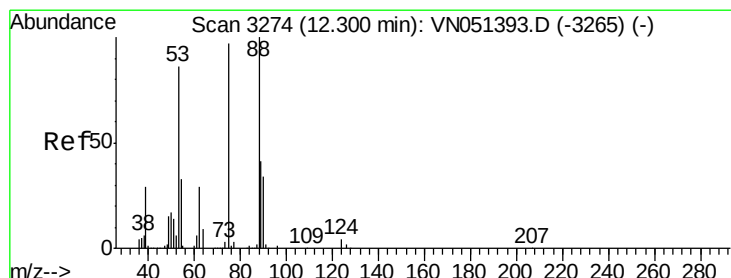
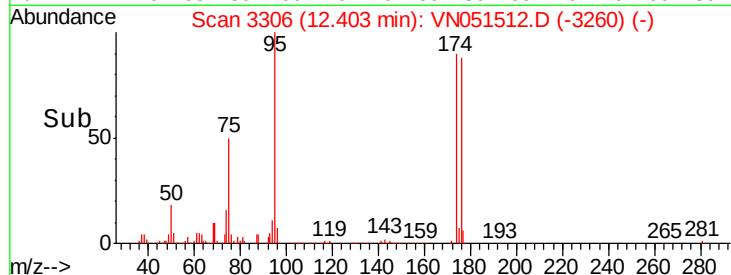
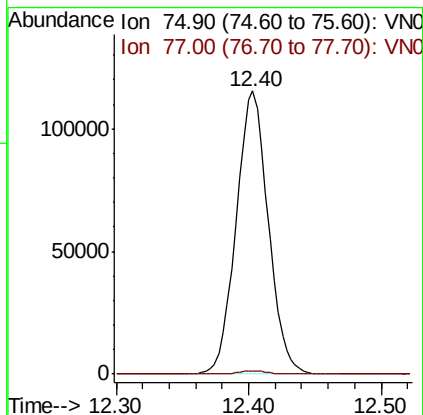
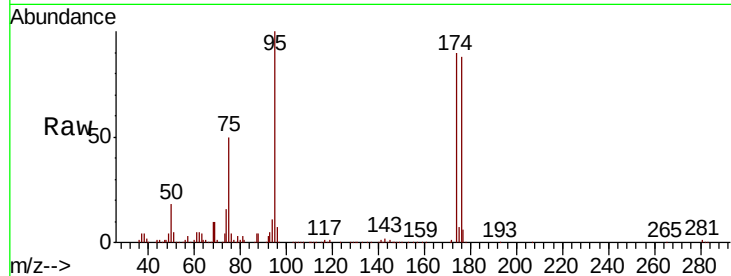
PB113167ZHE#06

Tot Ion: 75 Resp: 193968

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 112.094 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

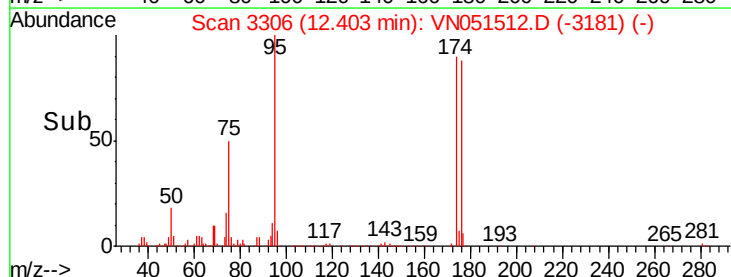
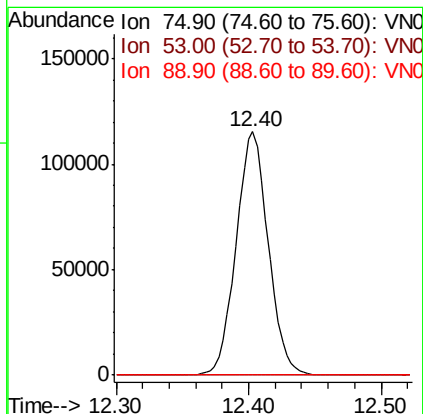
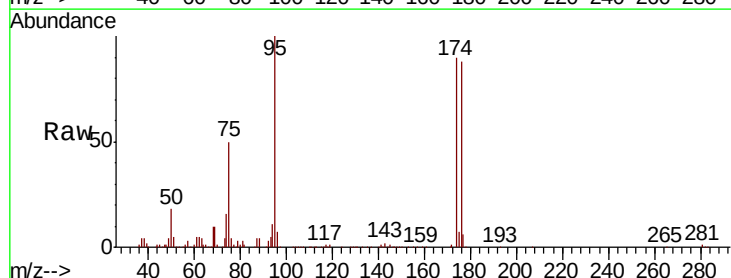
Tgt Ion: 75 Resp: 193968

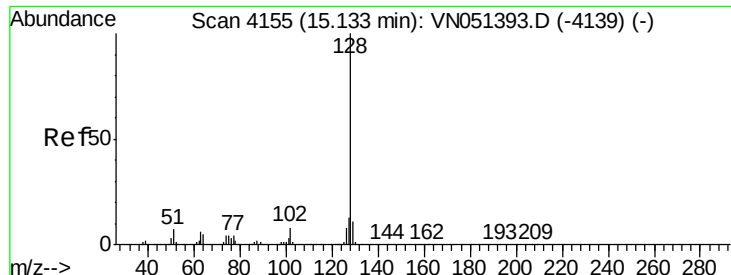
Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

89 0.0 36.7 55.1#





#95

Naphthalene

Concen: 8.064 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051512.D

Acq: 26 Sep 2018 3:22

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#06

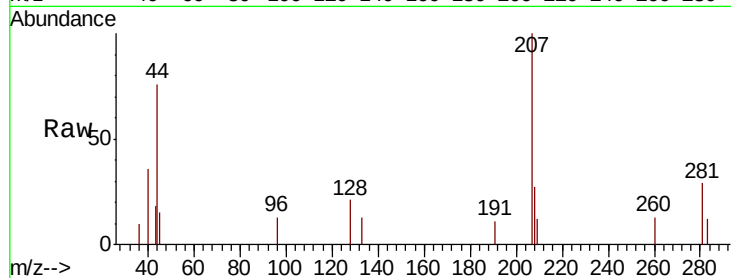
Tot Ion:128 Resp: 282

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

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

