

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051552.D
 Acq On : 26 Sep 2018 22:26
 Operator : MD\SY
 Sample : PB113219ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113219ZHE#09

Quant Time: Sep 27 08:01:12 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	616872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1011123	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	847131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	294852	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	451304	58.40	ug/l	0.00
Spiked Amount			Recovery	=	116.80%	
35) Dibromofluoromethane	7.59	113	388828	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
50) Toluene-d8	10.09	98	1407550	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	
62) 4-Bromofluorobenzene	12.40	95	378450	38.42	ug/l	0.00
Spiked Amount			Recovery	=	76.84%	

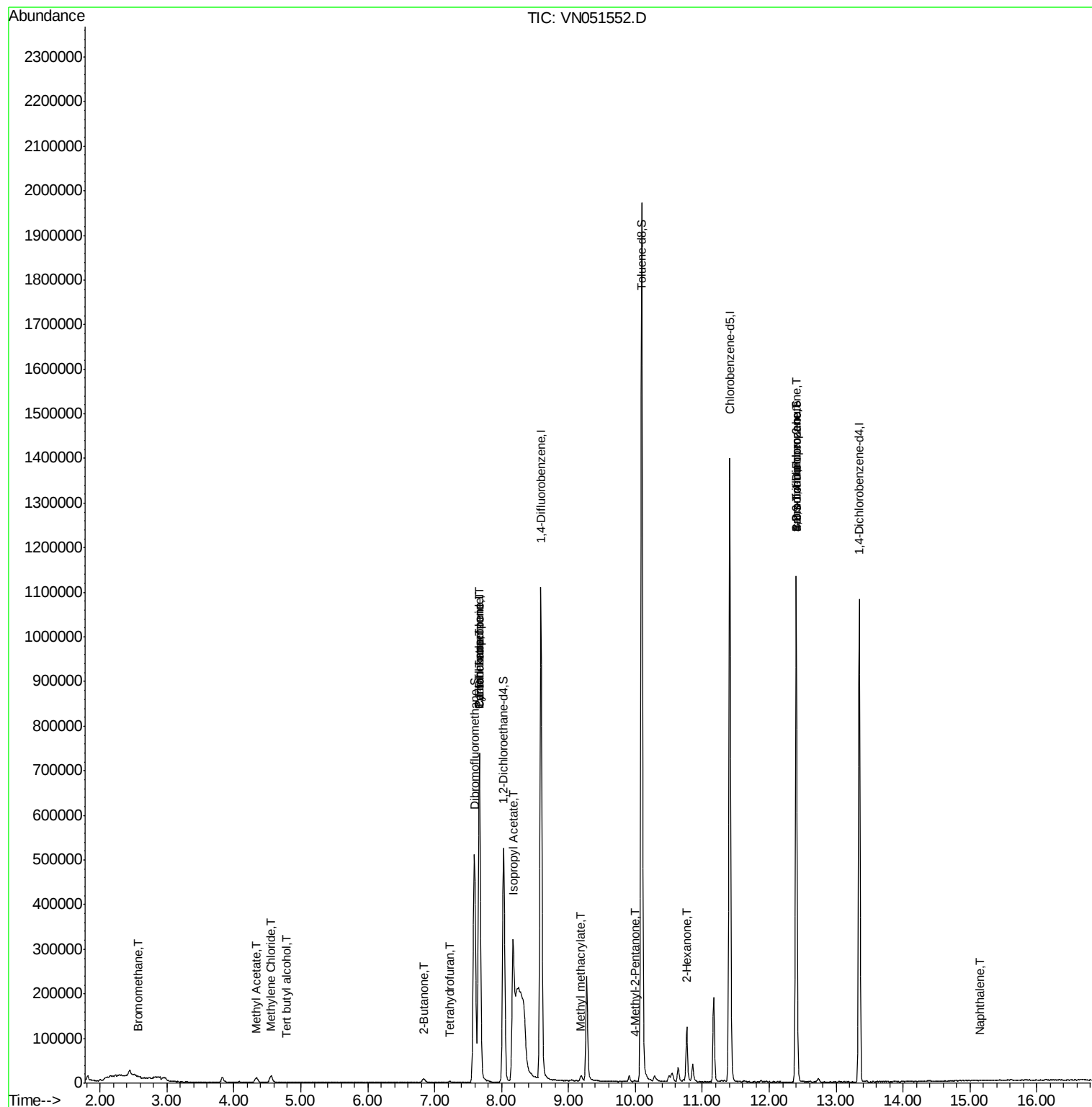
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	898	0.207	ug/l	94
11) Tert butyl alcohol	4.78	59	105	0.241	ug/l #	78
16) Acetone	3.82	43	20003	Below Cal		93
18) Methyl Acetate	4.34	43	18438	3.133	ug/l #	76
20) Methylene Chloride	4.56	84	10793	1.411	ug/l	87
25) 2-Butanone	6.83	43	1460	0.552	ug/l	91
29) Tetrahydrofuran	7.23	42	1148	0.685	ug/l #	72
31) Cyclohexane	7.67	56	12180	1.001	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44819	3.828	ug/l #	49
38) Carbon Tetrachloride	7.67	117	56897	4.646	ug/l #	17
43) Isopropyl Acetate	8.17	43	402897	33.096	ug/l #	89
48) Methyl methacrylate	9.18	41	6195	1.021	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	1673	0.250	ug/l	97
59) 2-Hexanone	10.77	43	16563	3.816	ug/l #	59
71) Bromoform	12.40	173	3829	0.681	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	187565	38.320	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	187565	117.831	ug/l #	12
95) Naphthalene	15.14	128	409	8.076	ug/l #	69

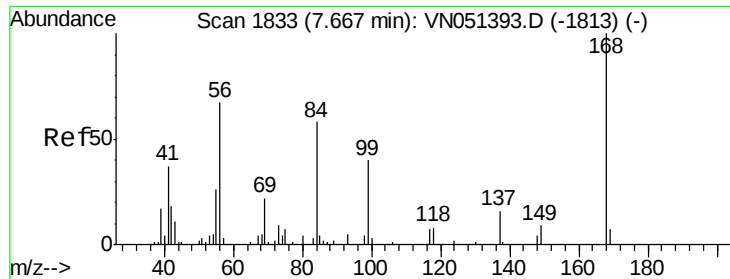
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

Instrument :

MSVOA_N

ClientSampleId :

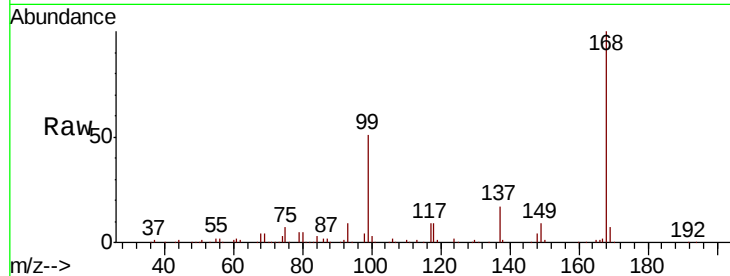
PB113219ZHE#09

Tot Ion:168 Resp: 616872

Ion Ratio Lower Upper

168 100

99 51.4 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

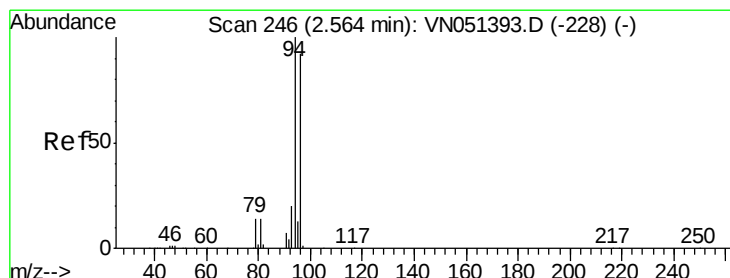
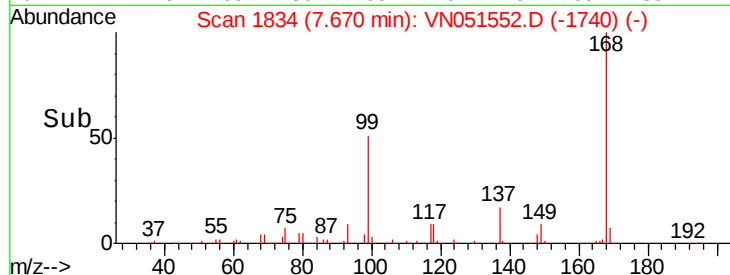
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.207 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051552.D

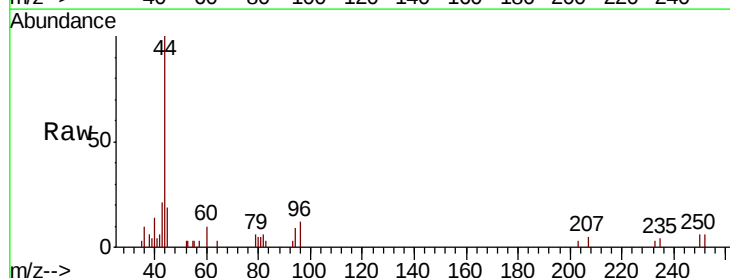
Acq: 26 Sep 2018 22:26

Tgt Ion: 94 Resp: 898

Ion Ratio Lower Upper

94 100

96 86.2 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

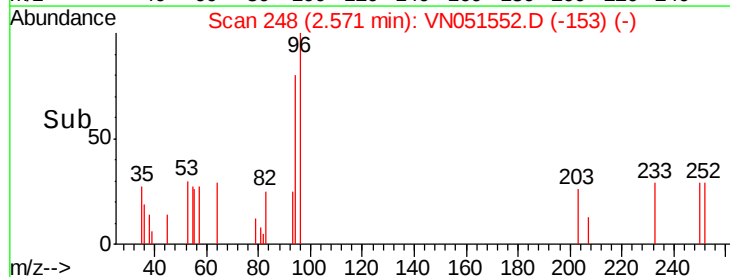
600

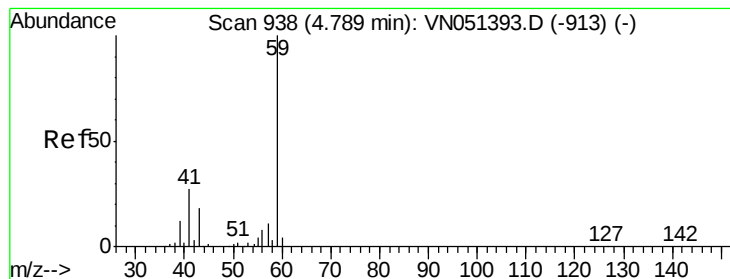
400

200

0

Time-->



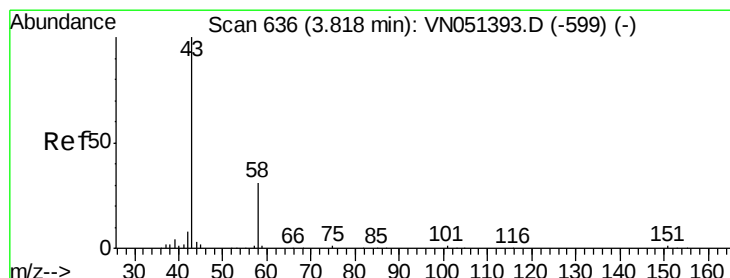
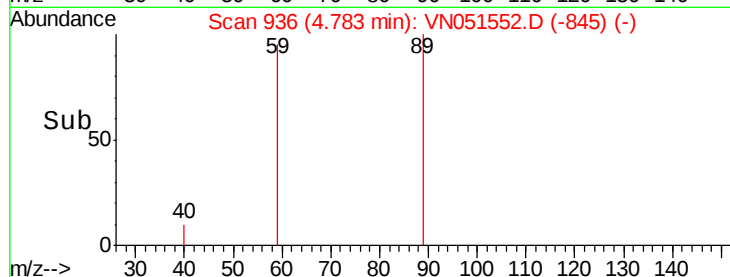
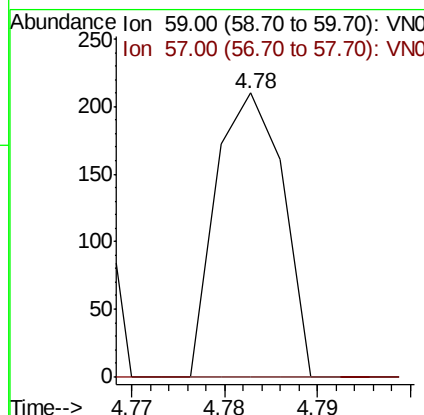
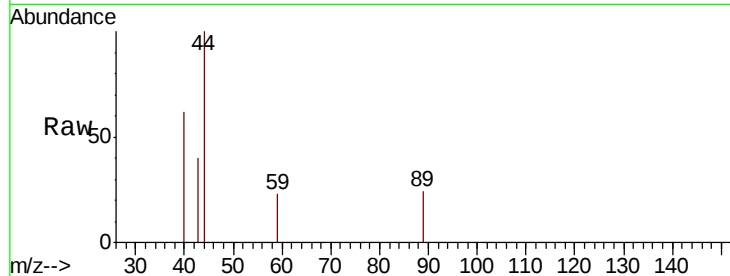


#11

Tert butyl alcohol
 Concen: 0.241 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VN051552.D
 Acq: 26 Sep 2018 22:26

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113219ZHE#09

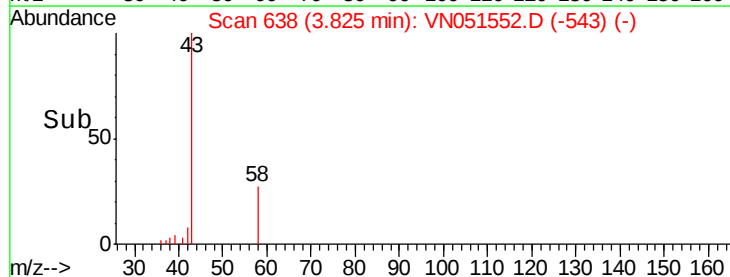
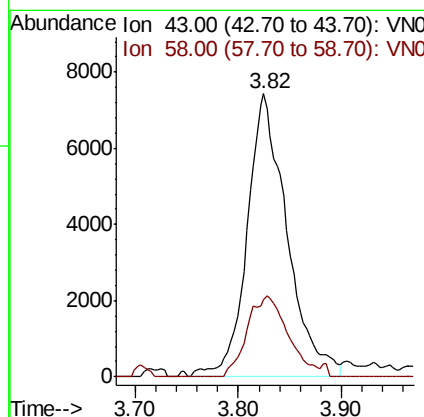
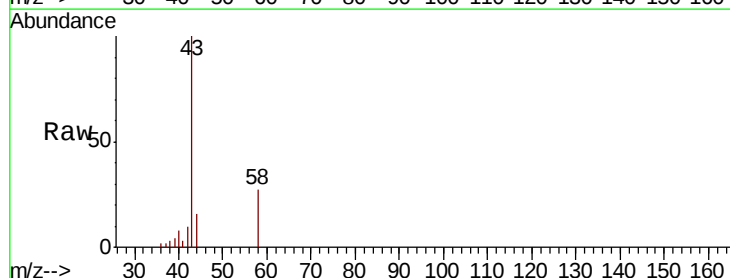
Tot Ion: 59 Resp: 105
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.2#

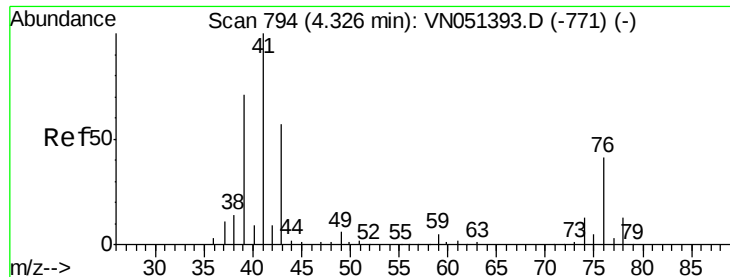


#16

Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN051552.D
 Acq: 26 Sep 2018 22:26

Tgt Ion: 43 Resp: 20003
 Ion Ratio Lower Upper
 43 100
 58 27.2 25.0 37.4

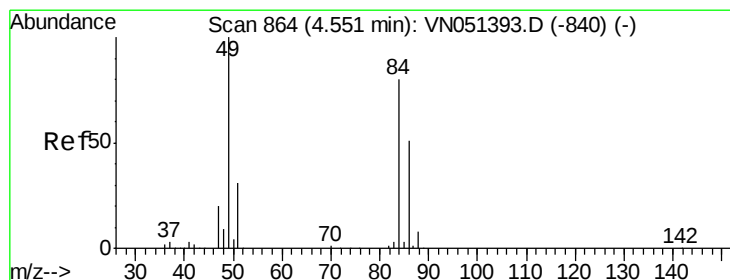
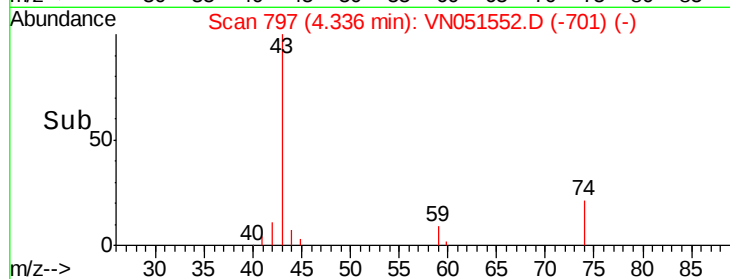
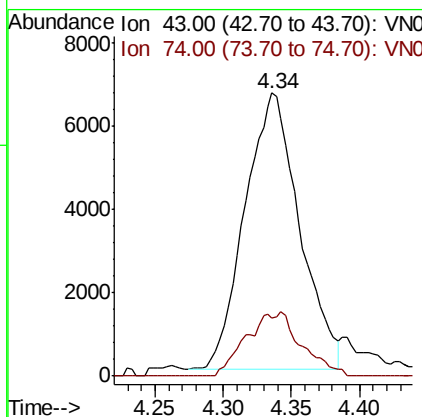
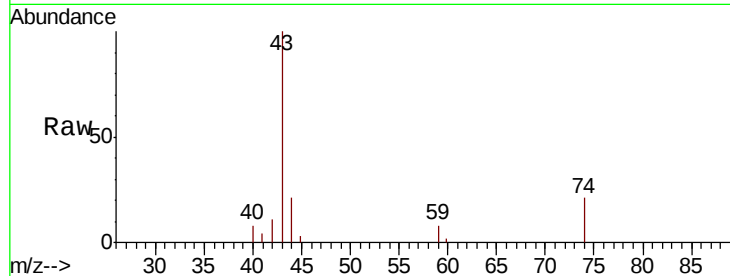




#18
Methyl Acetate
Concen: 3.133 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051552.D
Acq: 26 Sep 2018 22:26

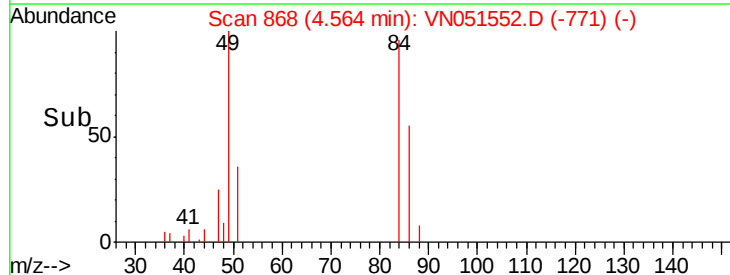
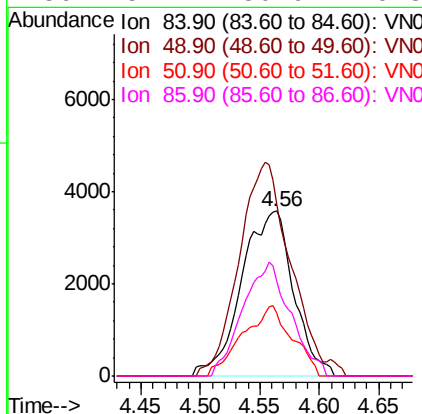
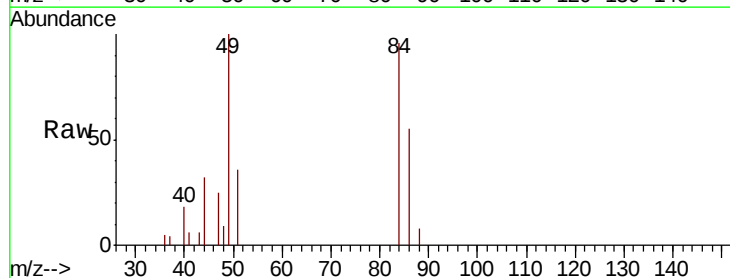
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#09

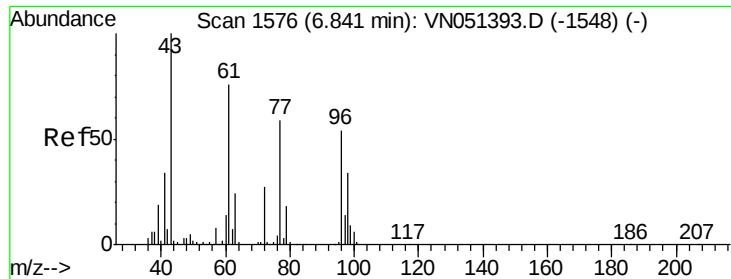
Tot Ion: 43 Resp: 18438
Ion Ratio Lower Upper
43 100
74 11.9 18.8 28.2#



#20
Methylene Chloride
Concen: 1.411 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN051552.D
Acq: 26 Sep 2018 22:26

Tgt Ion: 84 Resp: 10793
Ion Ratio Lower Upper
84 100
49 104.3 99.9 149.9
51 38.0 31.4 47.2
86 57.2 50.9 76.3

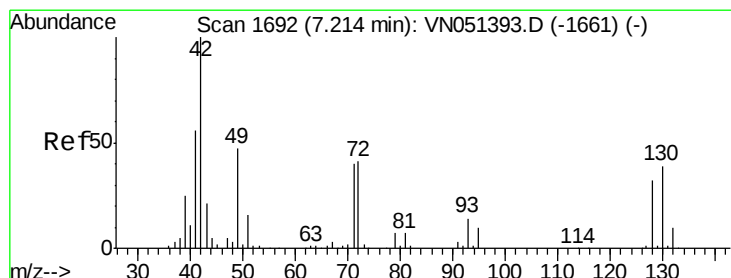
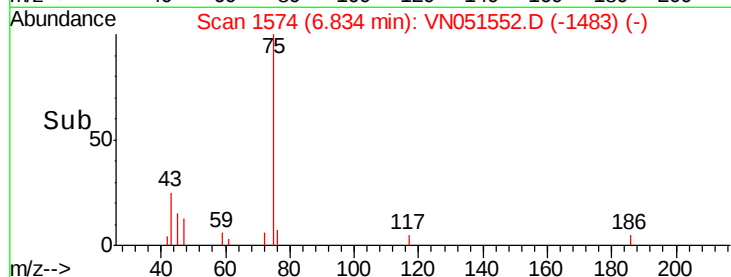
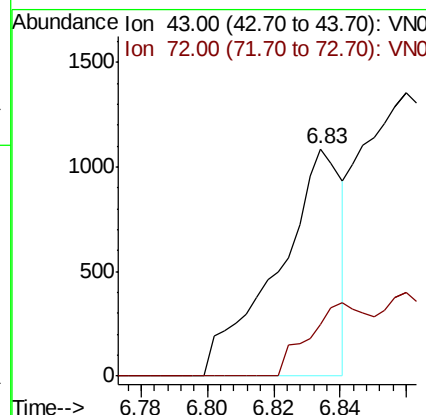
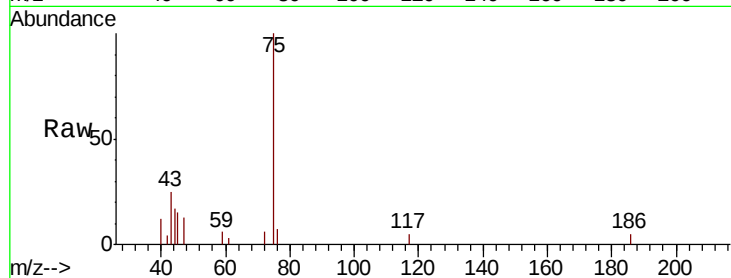




#25
2-Butanone
Concen: 0.552 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VN051552.D
Acq: 26 Sep 2018 22:26

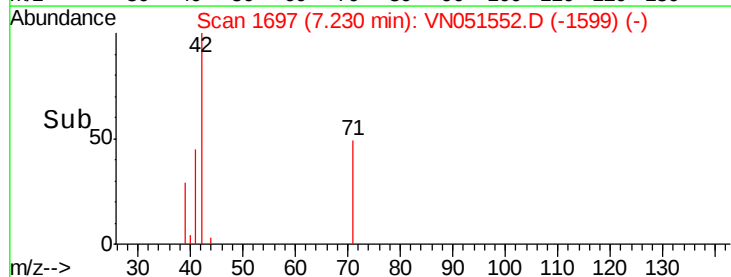
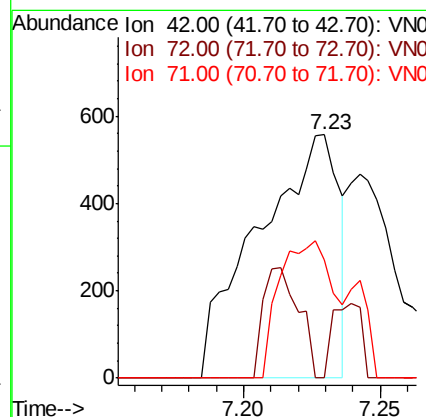
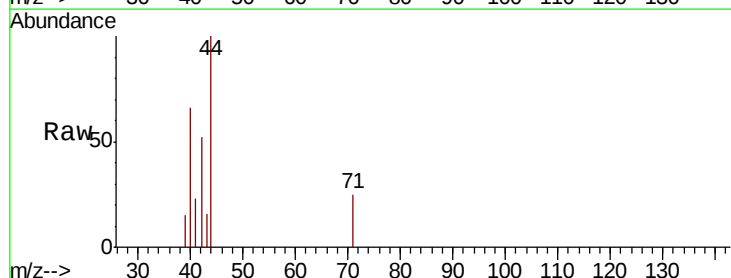
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#09

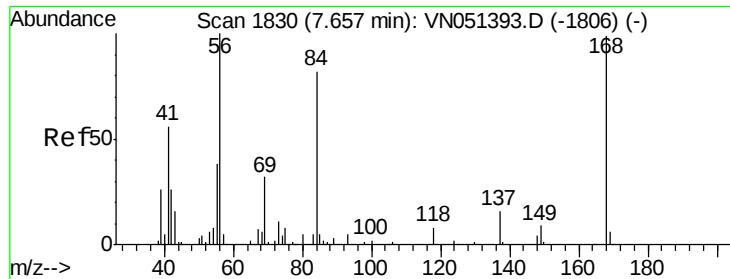
Tot Ion: 43 Resp: 1460
Ion Ratio Lower Upper
43 100
72 22.7 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.685 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN051552.D
Acq: 26 Sep 2018 22:26

Tgt Ion: 42 Resp: 1148
Ion Ratio Lower Upper
42 100
72 10.8 34.3 51.5#
71 37.5 32.2 48.4

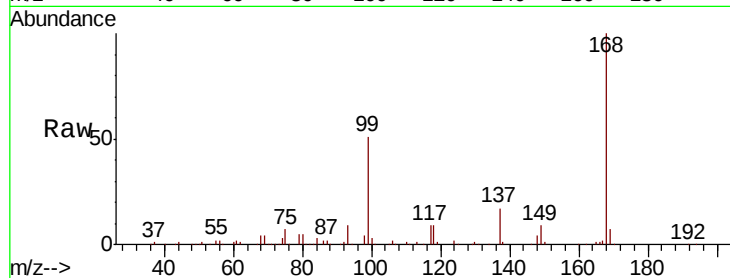




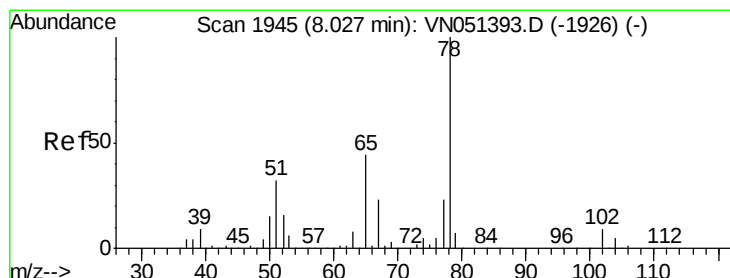
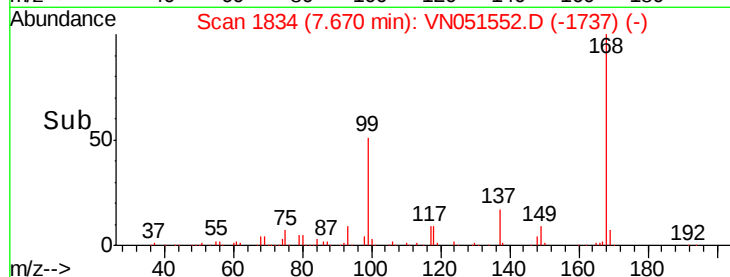
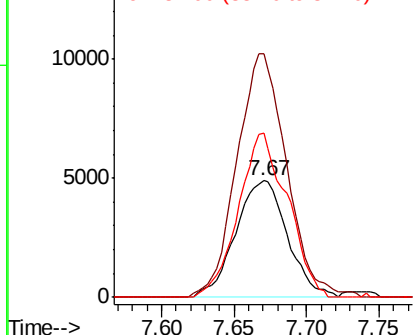
#31
Cyclohexane
Concen: 1.001 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051552.D
Acq: 26 Sep 2018 22:26

Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#09

Tot Ion: 56 Resp: 12180
Ion Ratio Lower Upper
56 100
69 208.2 25.8 38.6#
84 140.9 66.0 99.0#

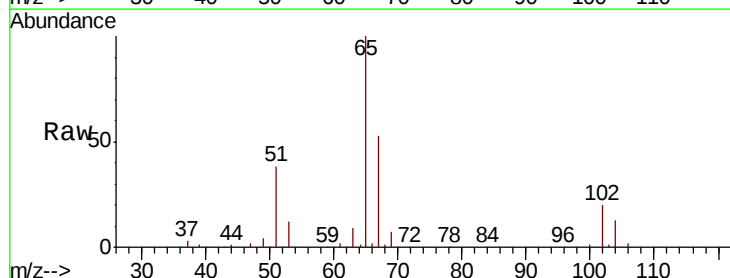


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

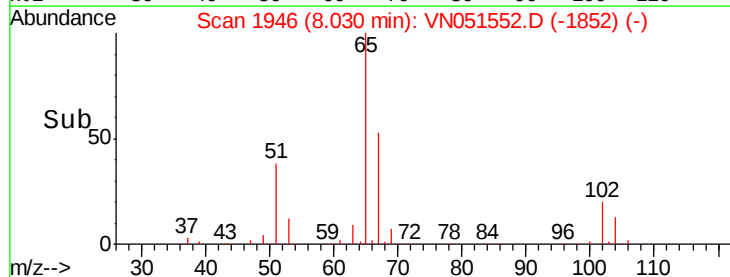
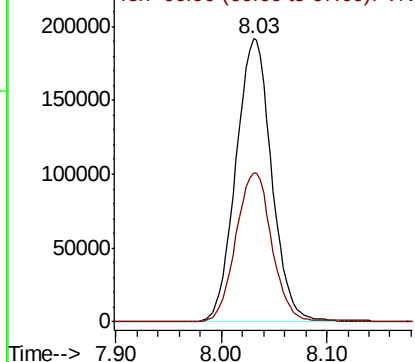


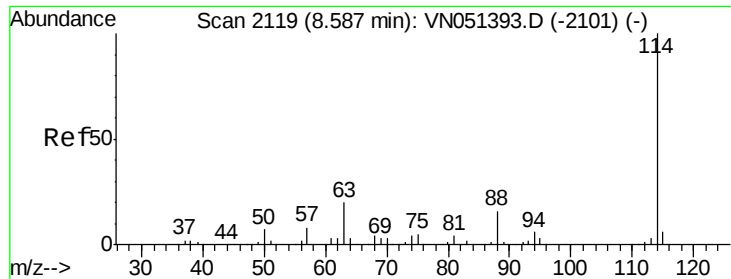
#33
1,2-Dichloroethane-d4
Concen: 58.403 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051552.D
Acq: 26 Sep 2018 22:26

Tgt Ion: 65 Resp: 451304
Ion Ratio Lower Upper
65 100
67 52.9 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

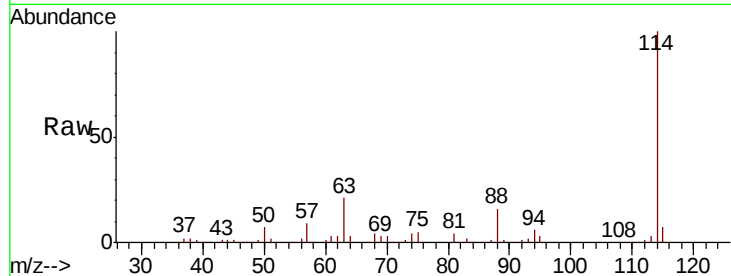




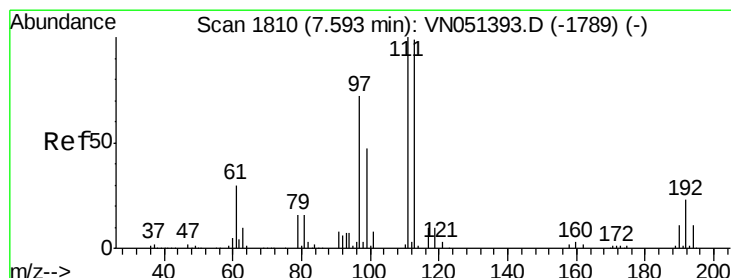
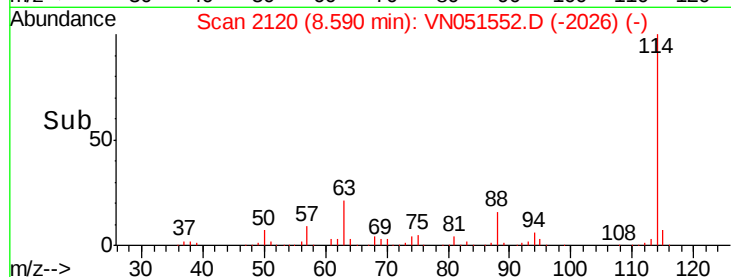
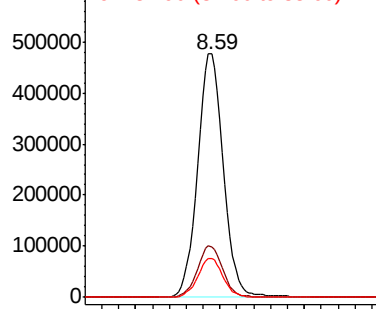
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051552.D
 Acq: 26 Sep 2018 22:26

Instrument :
 MSVOA_N
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 PB113219ZHE#09

Tot Ion:114 Resp: 1011123
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.2
 88 16.0 0.0 31.4

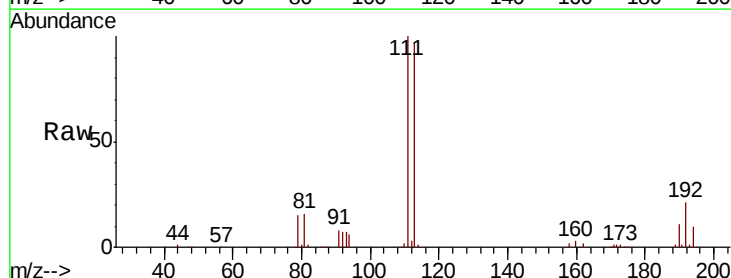


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

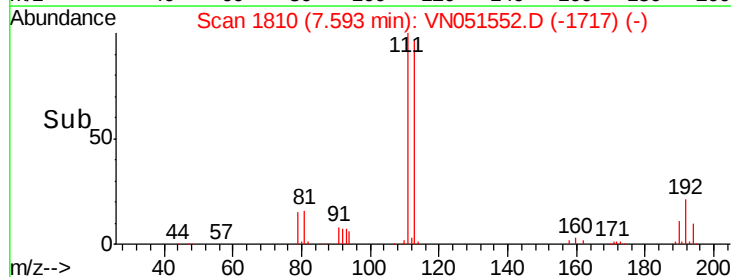
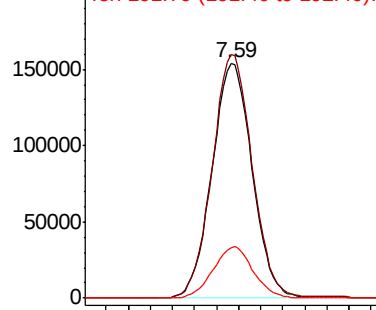


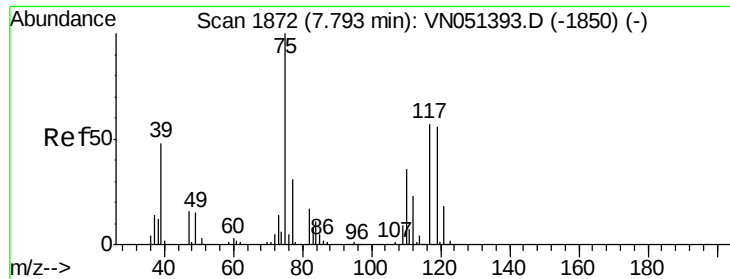
#35
 Dibromofluoromethane
 Concen: 48.090 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051552.D
 Acq: 26 Sep 2018 22:26

Tgt Ion:113 Resp: 388828
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.6 123.8
 192 21.8 18.0 27.0



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: 3.828 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#09

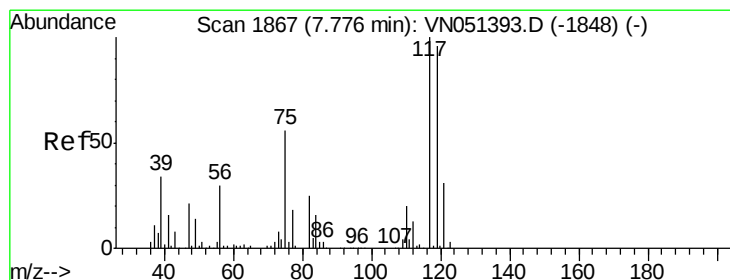
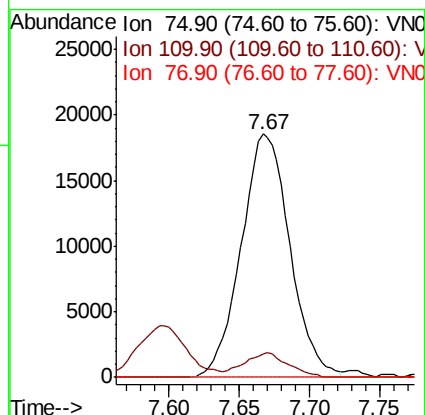
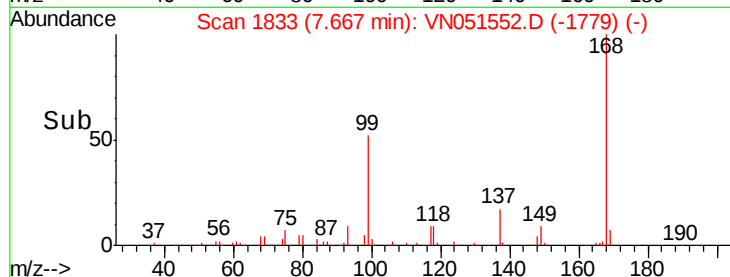
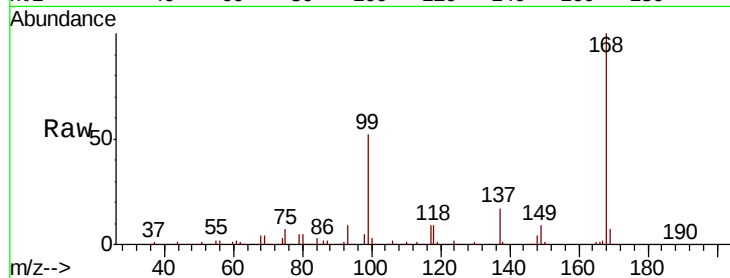
Tot Ion: 75 Resp: 44819

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.3#

77 0.0 25.6 38.4#



#38

Carbon Tetrachloride

Concen: 4.646 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

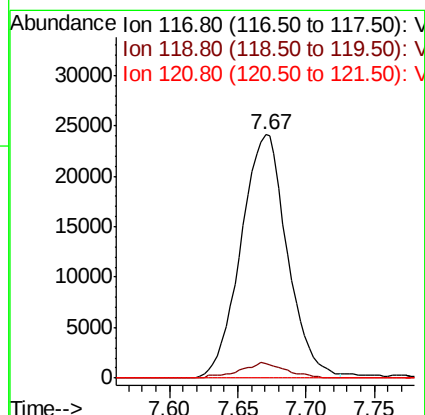
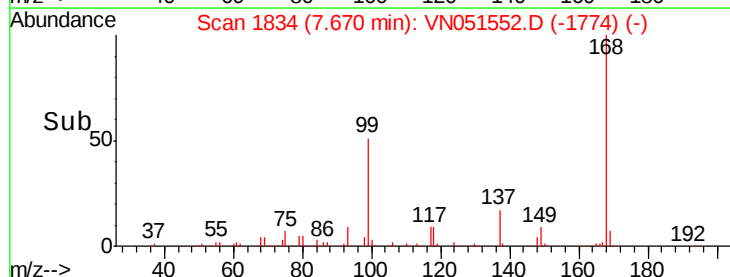
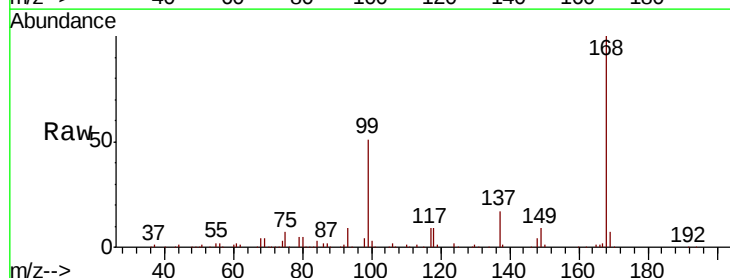
Tgt Ion: 117 Resp: 56897

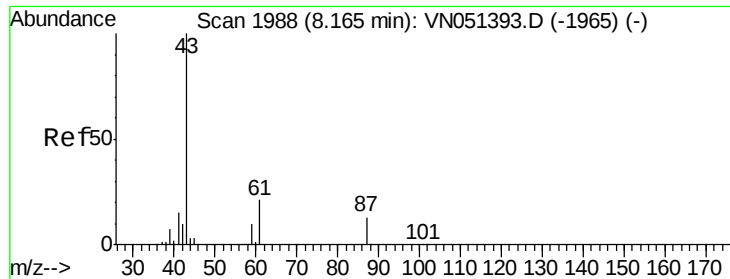
Ion Ratio Lower Upper

117 100

119 6.1 76.9 115.3#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 33.096 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#09

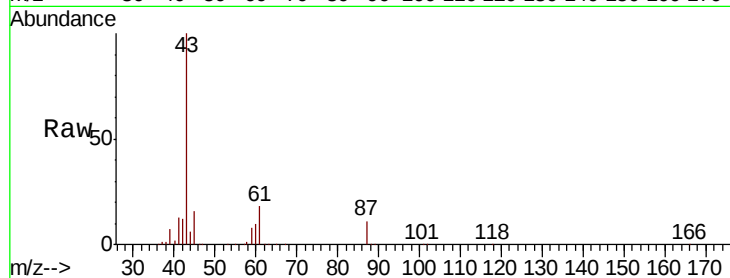
Tot Ion: 43 Resp: 402897

Ion Ratio Lower Upper

43 100

61 15.4 16.8 25.2#

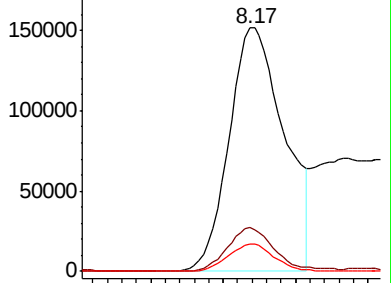
87 9.4 10.7 16.1#



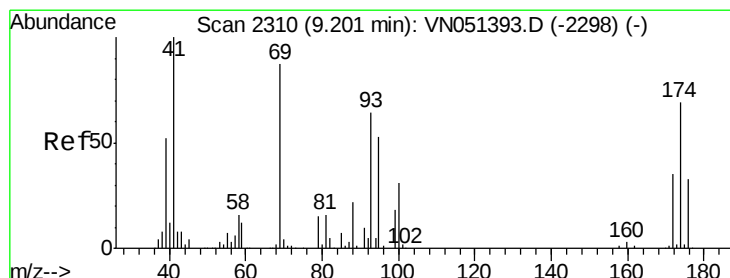
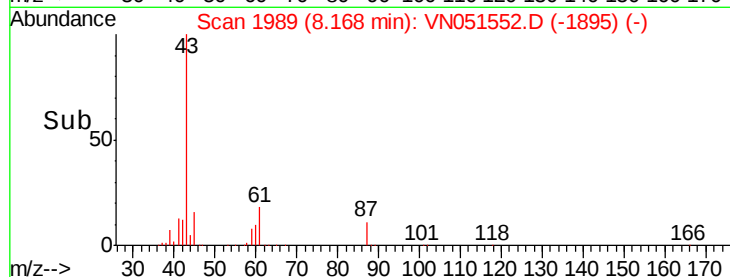
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



Time-->



#48

Methyl methacrylate

Concen: 1.021 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

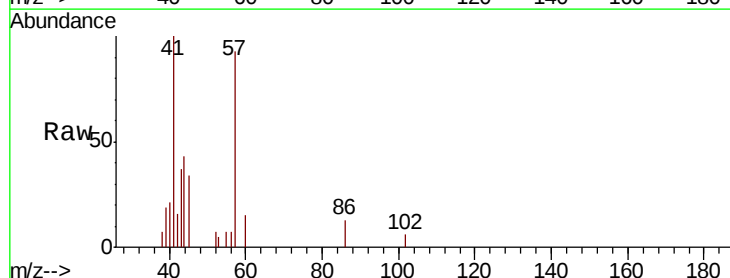
Tgt Ion: 41 Resp: 6195

Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

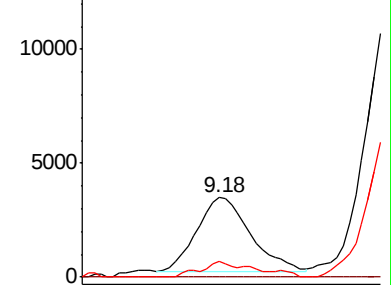
39 18.3 43.8 65.8#



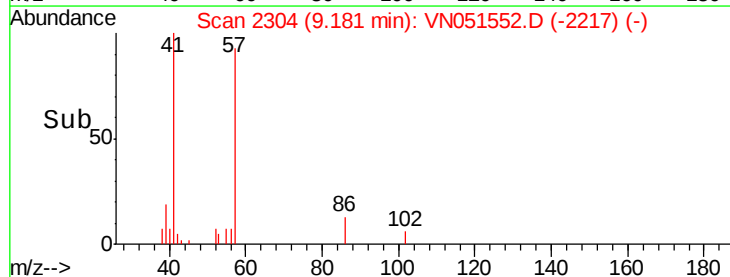
Abundance Ion 41.00 (40.70 to 41.70): VN0

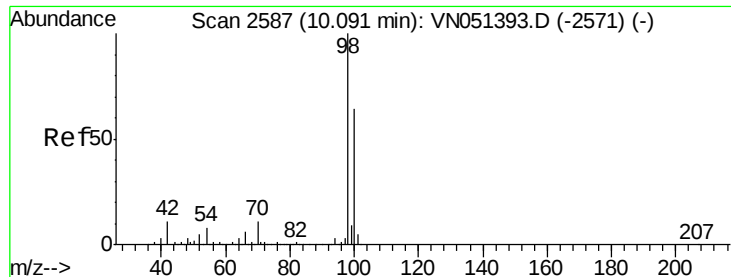
Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->





#50

Toluene-d8

Concen: 46.229 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

Instrument :

MSVOA_N

ClientSampleId :

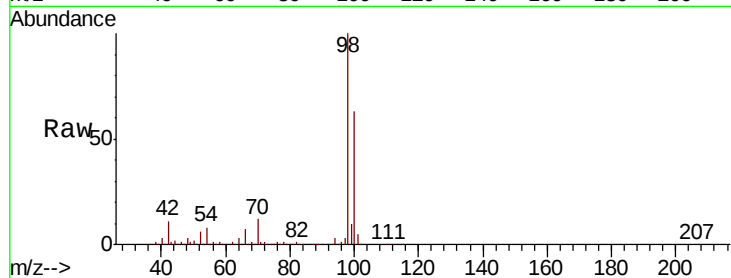
PB113219ZHE#09

Tot Ion: 98 Resp: 1407550

Ion Ratio Lower Upper

98 100

100 62.9 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN051393.D (-2571) (-)

10.09

800000

600000

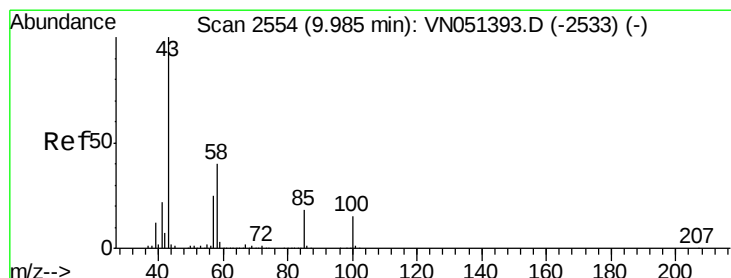
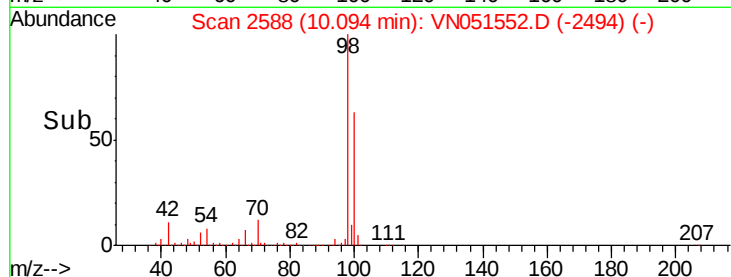
400000

200000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.250 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051552.D

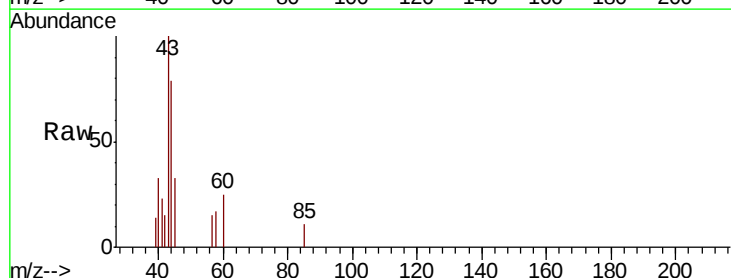
Acq: 26 Sep 2018 22:26

Tgt Ion: 43 Resp: 1673

Ion Ratio Lower Upper

43 100

58 37.8 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN051393.D (-2533) (-)

9.99

2000

1500

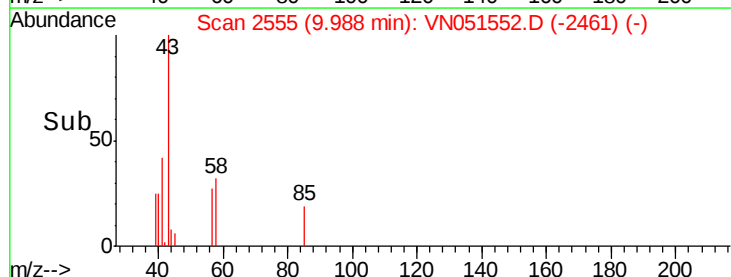
1000

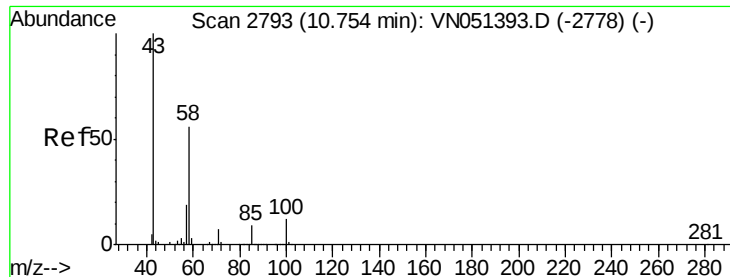
500

0

Time-->

9.96 9.98 10.00 10.02

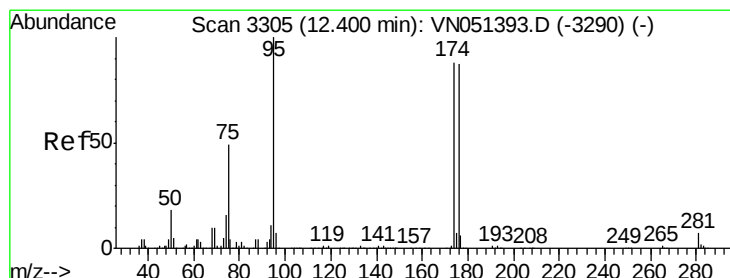
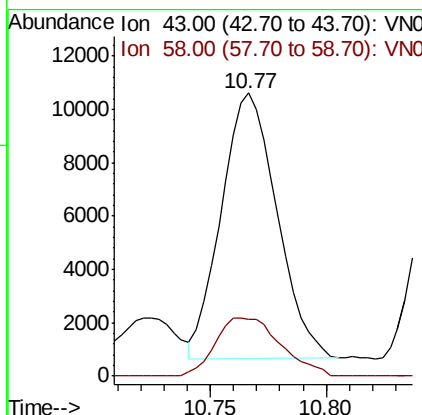
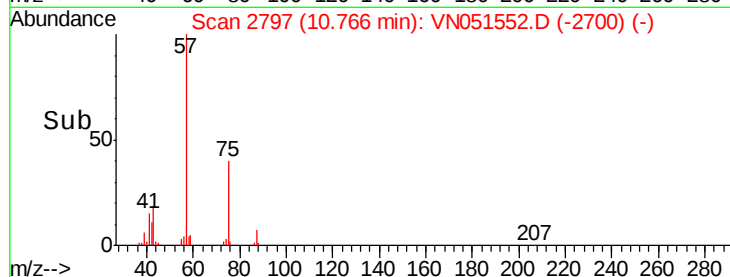
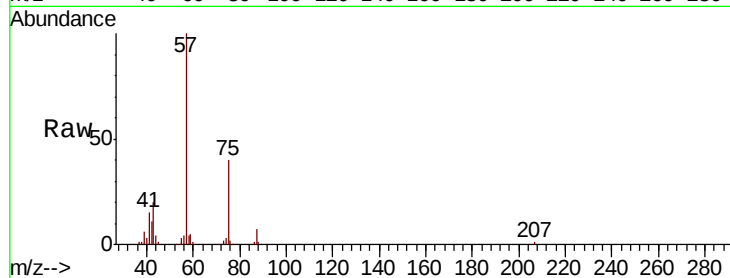




#59
2-Hexanone
Concen: 3.816 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051552.D
Acq: 26 Sep 2018 22:26

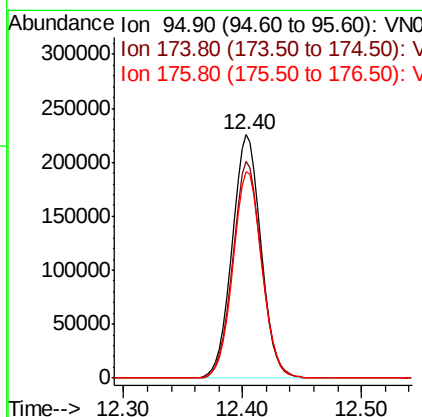
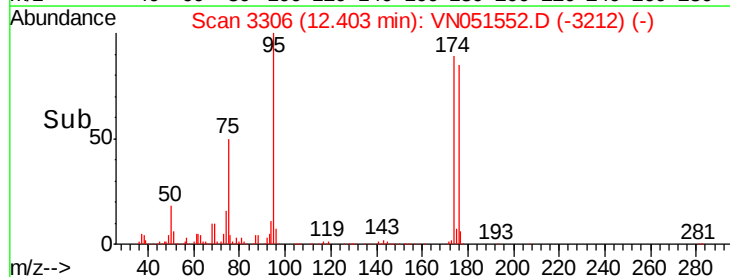
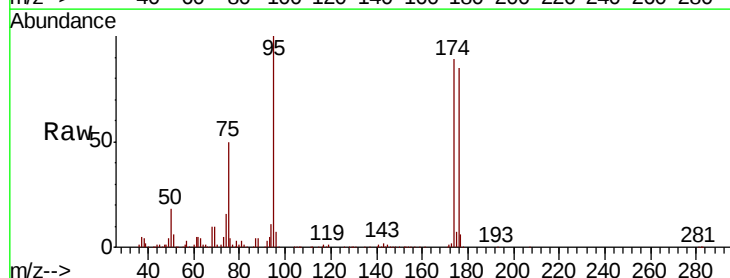
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#09

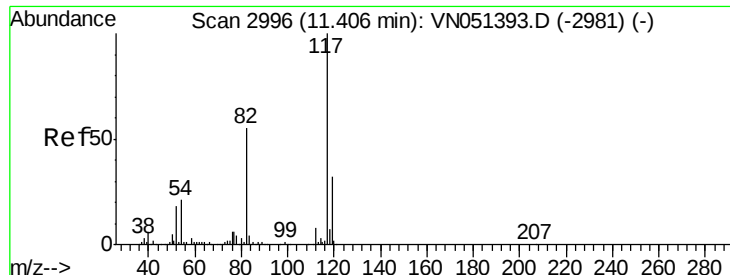
Tot Ion: 43 Resp: 16563
Ion Ratio Lower Upper
43 100
58 25.7 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.423 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051552.D
Acq: 26 Sep 2018 22:26

Tgt Ion: 95 Resp: 378450
Ion Ratio Lower Upper
95 100
174 89.4 0.0 181.6
176 85.1 0.0 176.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#09

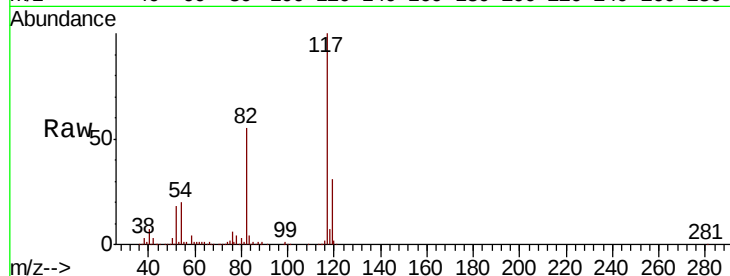
Tot Ion:117 Resp: 847131

Ion Ratio Lower Upper

117 100

82 55.0 44.2 66.2

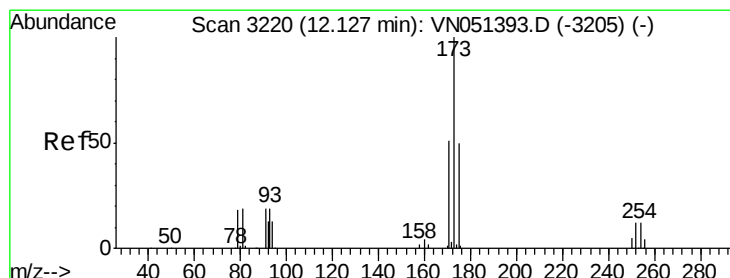
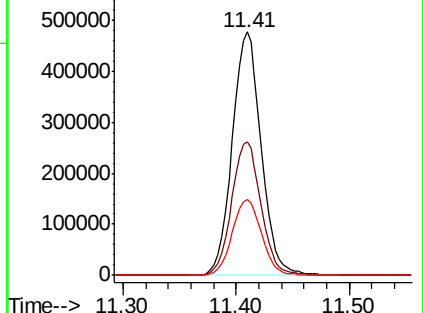
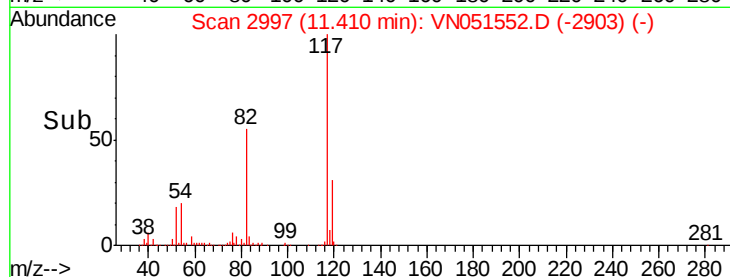
119 31.0 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.681 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

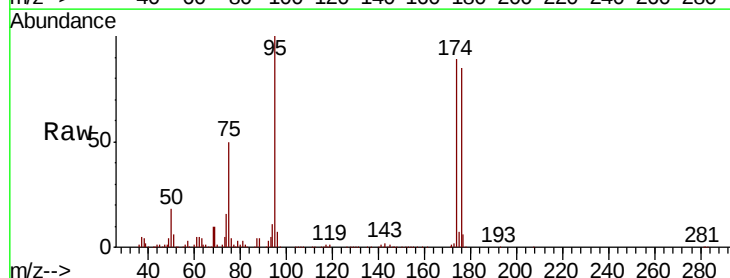
Tgt Ion:173 Resp: 3829

Ion Ratio Lower Upper

173 100

175 540.7 24.8 74.3#

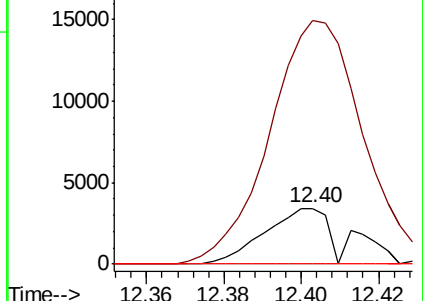
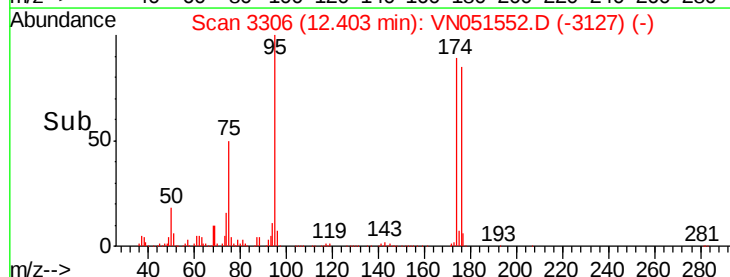
254 0.0 0.2 0.2#

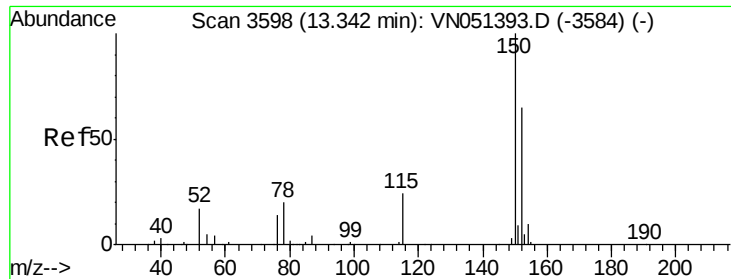


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN051552.D

Acq: 26 Sep 2018 22:26

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#09

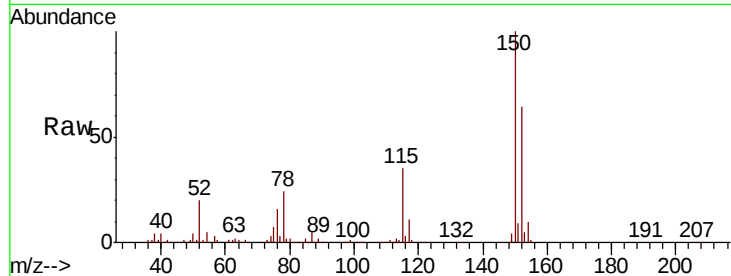
Tot Ion:152 Resp: 294852

Ion Ratio Lower Upper

152 100

115 56.0 28.3 84.9

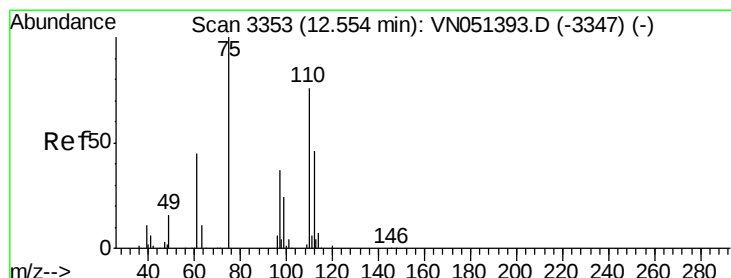
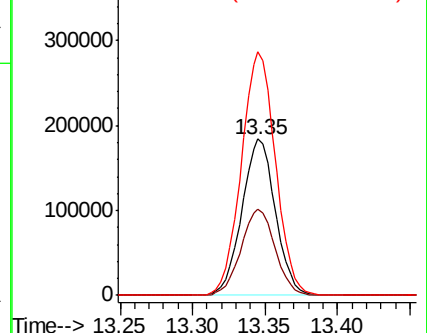
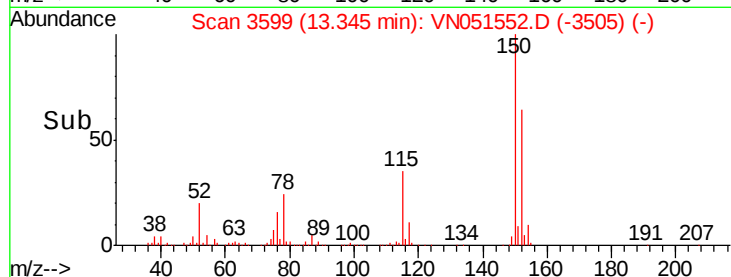
150 158.5 0.0 353.6



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: 38.320 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051552.D

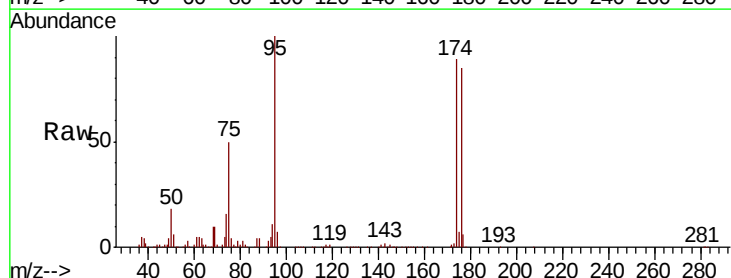
Acq: 26 Sep 2018 22:26

Tgt Ion: 75 Resp: 187565

Ion Ratio Lower Upper

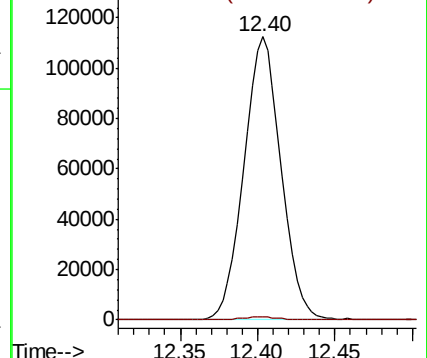
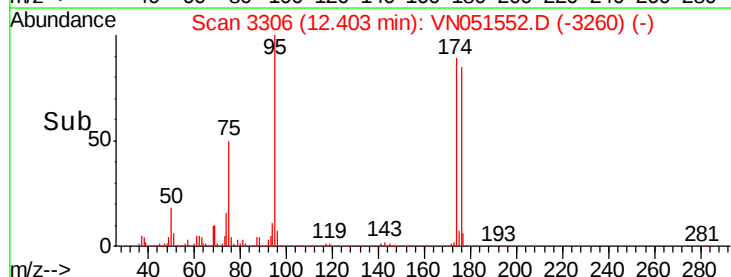
75 100

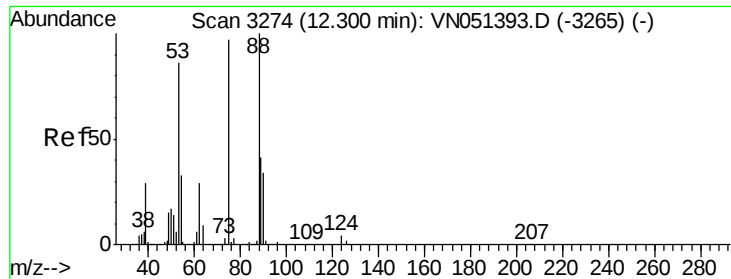
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 117.831 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#09

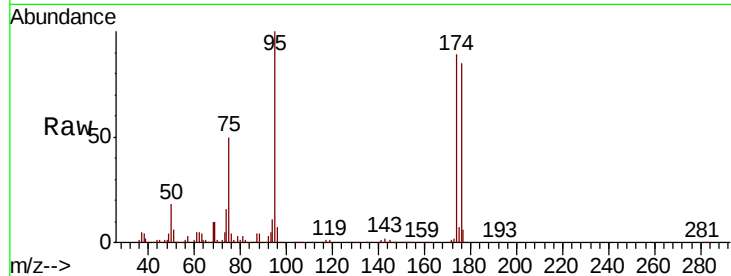
Tot Ion: 75 Resp: 187565

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

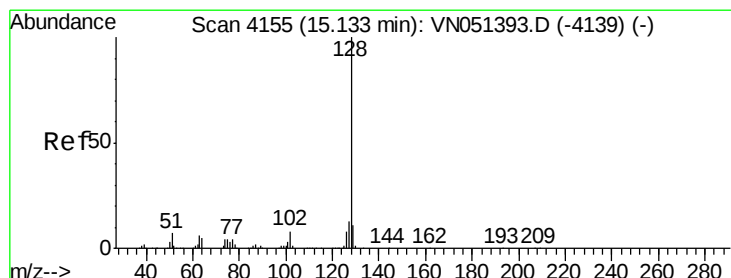
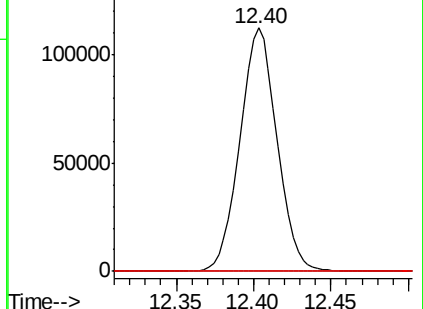
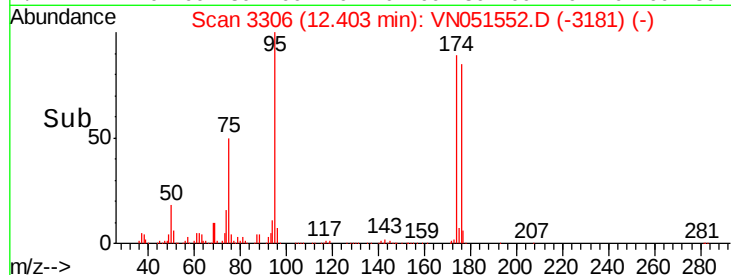
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN051393.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN051393.D (-3265) (-)



#95

Naphthalene

Concen: 8.076 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN051552.D

Acq: 26 Sep 2018 22:26

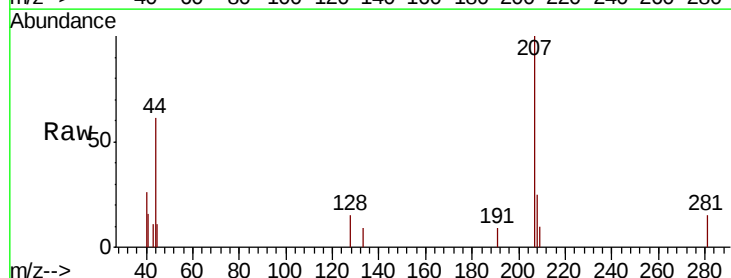
Tgt Ion: 128 Resp: 409

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): VN051393.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN051393.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN051393.D (-4139) (-)

