

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051599.D
 Acq On : 27 Sep 2018 22:11
 Operator : MD\SY
 Sample : J5097-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Sep 28 01:54:51 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	624689	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1045233	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	868781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	312283	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	460237	58.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.62%	
35) Dibromofluoromethane	7.59	113	398419	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
50) Toluene-d8	10.09	98	1445316	45.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.84%	
62) 4-Bromofluorobenzene	12.40	95	386605	37.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.94%	

Target Compounds

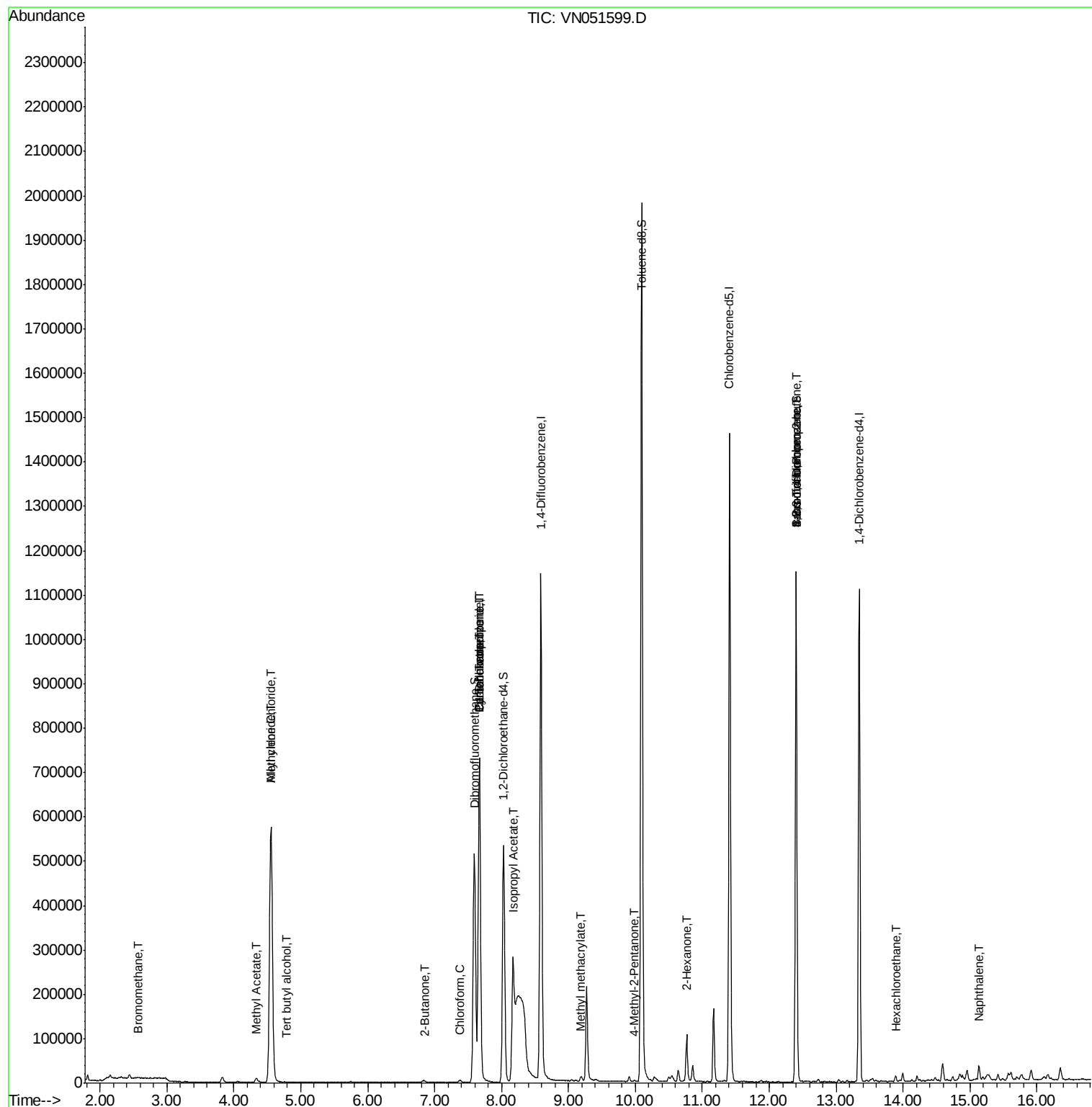
					Qvalue	
5) Bromomethane	2.57	94	1396	0.286	ug/l	92
11) Tert butyl alcohol	4.79	59	223	0.505	ug/l #	78
14) Allyl chloride	4.56	41	17842	1.530	ug/l #	26
16) Acetone	3.82	43	18841	Below Cal		96
18) Methyl Acetate	4.33	43	17512	2.938	ug/l	96
20) Methylene Chloride	4.55	84	432433	55.844	ug/l	98
25) 2-Butanone	6.86	43	4661	1.740	ug/l	97
30) Chloroform	7.37	83	5539	0.416	ug/l	85
31) Cyclohexane	7.67	56	12778	1.037	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46003	3.801	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59163	4.673	ug/l #	16
43) Isopropyl Acetate	8.17	43	355738	28.268	ug/l #	88
48) Methyl methacrylate	9.18	41	5799	0.924	ug/l #	19
51) 4-Methyl-2-Pentanone	9.98	43	1714	0.248	ug/l #	84
59) 2-Hexanone	10.77	43	15693	3.498	ug/l #	56
71) Bromoform	12.40	173	5064	0.879	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	190208	36.691	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190208	112.821	ug/l #	13
90) Hexachloroethane	13.89	117	998	0.224	ug/l #	4
95) Naphthalene	15.14	128	27491	10.031	ug/l	96

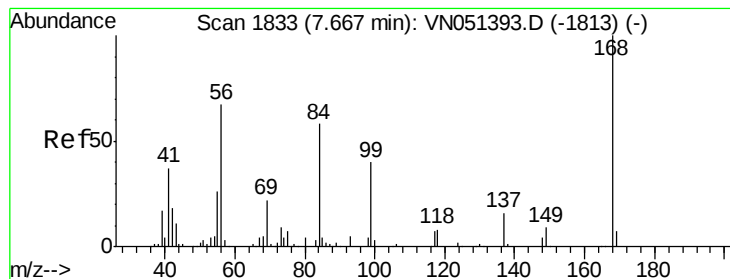
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 24 06:41:32 2018
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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: VN051599.D

Acq: 27 Sep 2018 22:11

Instrument :

MSVOA_N

ClientSampleId :

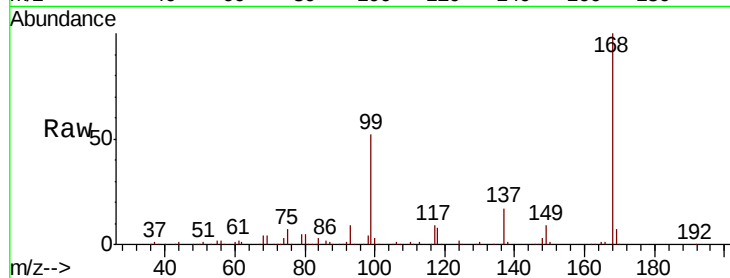
TP-1

Tot Ion:168 Resp: 624689

Ion Ratio Lower Upper

168 100

99 51.8 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

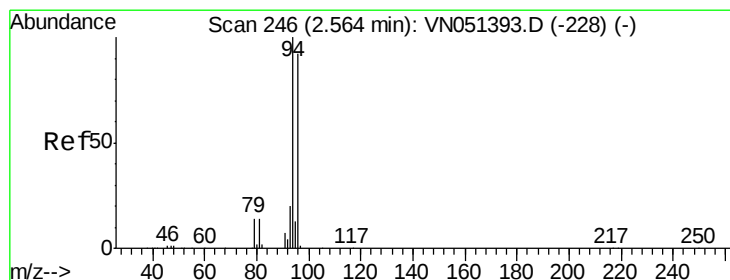
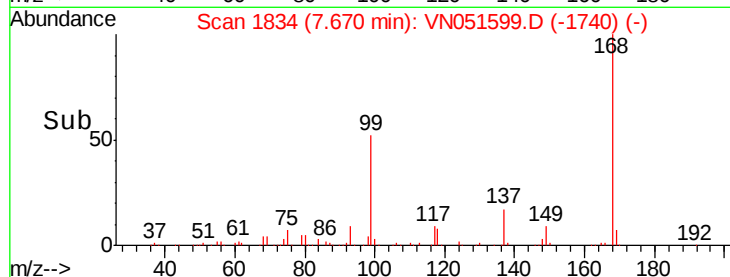
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.286 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051599.D

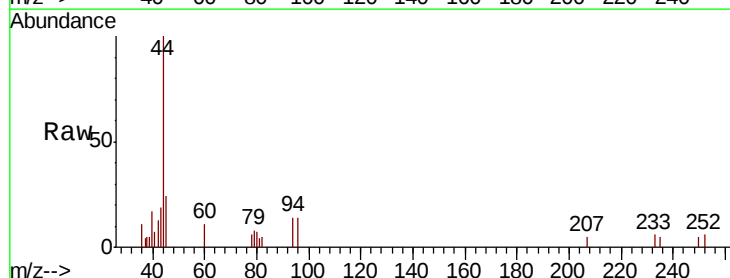
Acq: 27 Sep 2018 22:11

Tgt Ion: 94 Resp: 1396

Ion Ratio Lower Upper

94 100

96 99.6 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

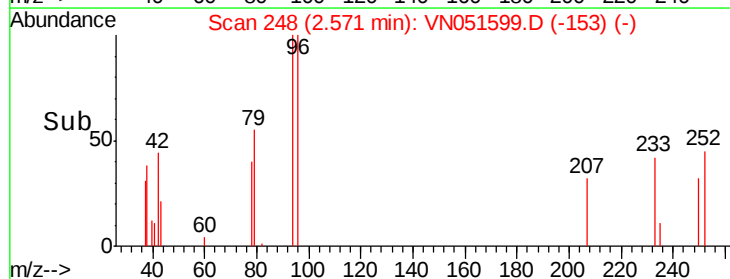
600

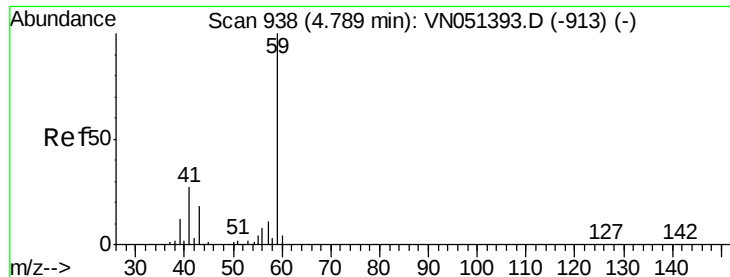
400

200

0

Time-->

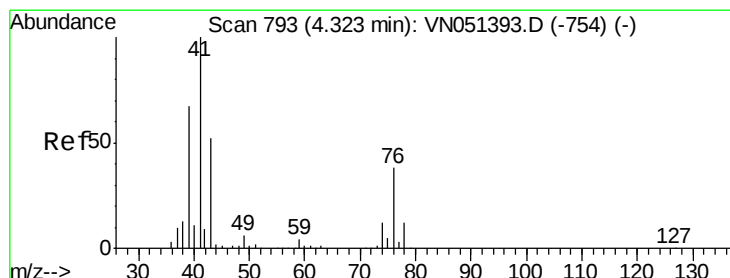
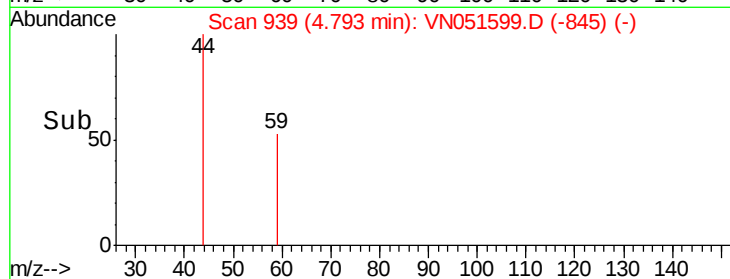
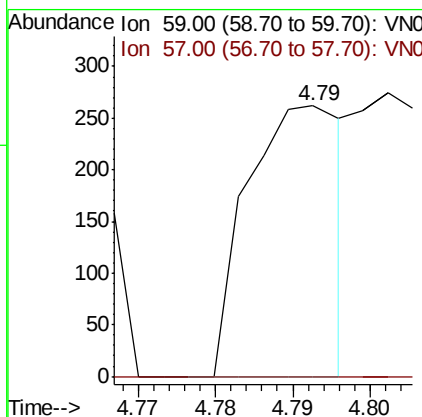
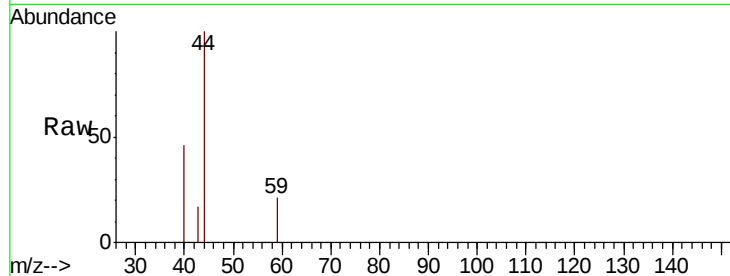




#11
Tert butyl alcohol
Concen: 0.505 ug/l
RT: 4.79 min Scan# 939
Delta R.T. 0.00 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

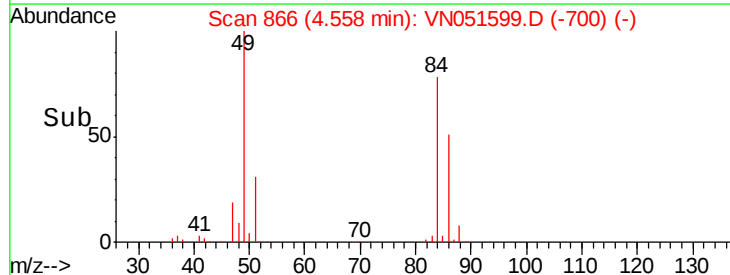
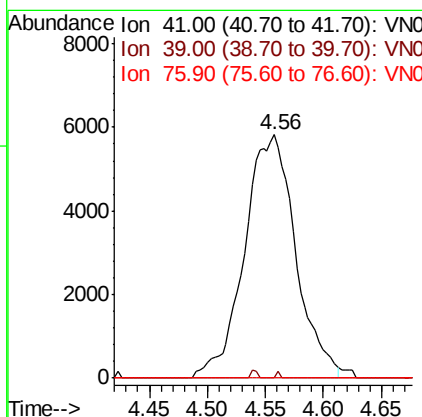
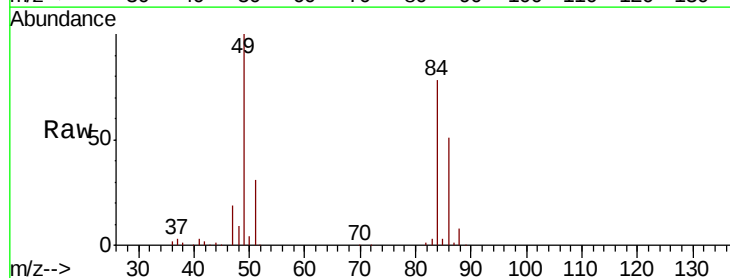
Instrument :
MSVOA_N
ClientSampled :
TP-1

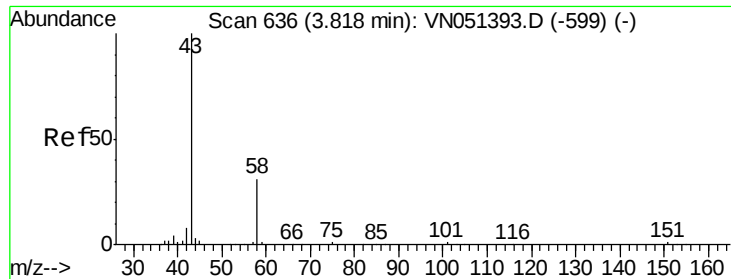
Tot Ion: 59 Resp: 223
Ion Ratio Lower Upper
59 100
57 0.0 6.2 9.2#



#14
Allyl chloride
Concen: 1.530 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.23 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

Tgt Ion: 41 Resp: 17842
Ion Ratio Lower Upper
41 100
39 0.2 51.4 77.2#
76 0.0 28.1 42.1#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

Instrument :

MSVOA_N

ClientSampled :

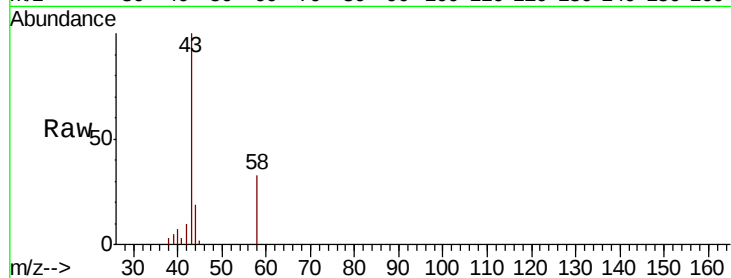
TP-1

Tot Ion: 43 Resp: 18841

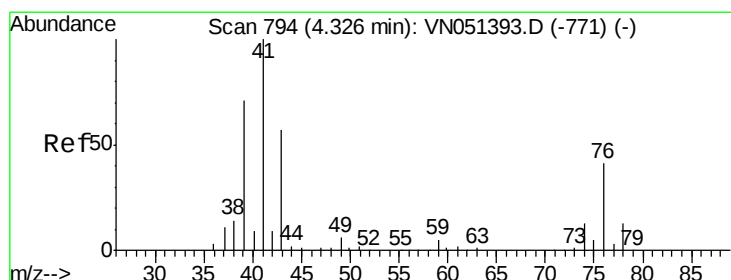
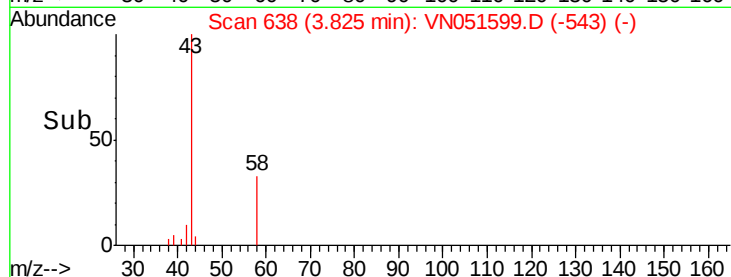
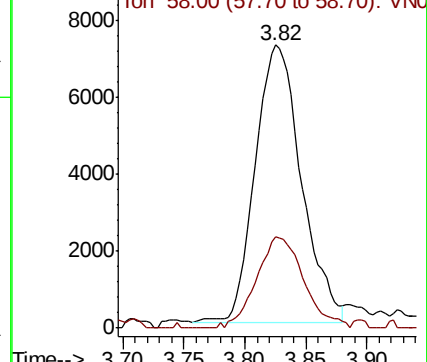
Ion Ratio Lower Upper

43 100

58 33.2 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN051599.D (-599) (-)



#18

Methyl Acetate

Concen: 2.938 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051599.D

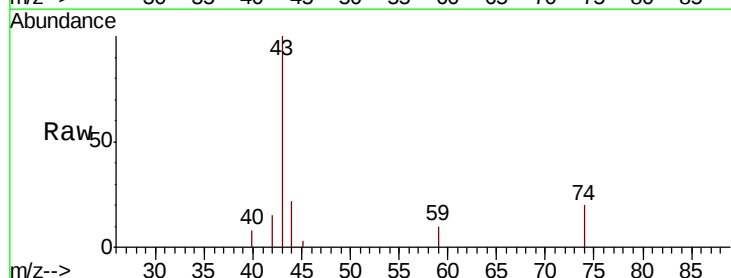
Acq: 27 Sep 2018 22:11

Tgt Ion: 43 Resp: 17512

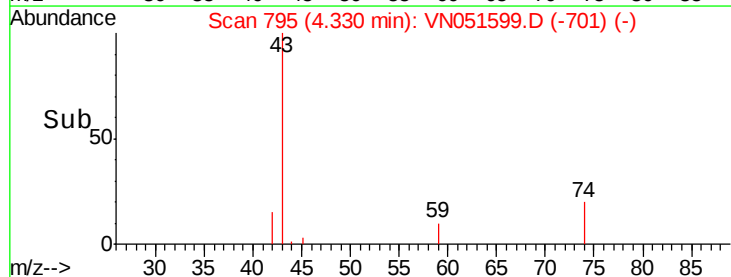
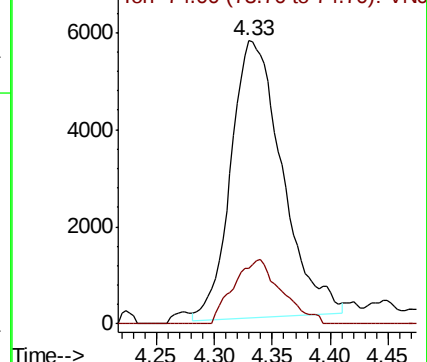
Ion Ratio Lower Upper

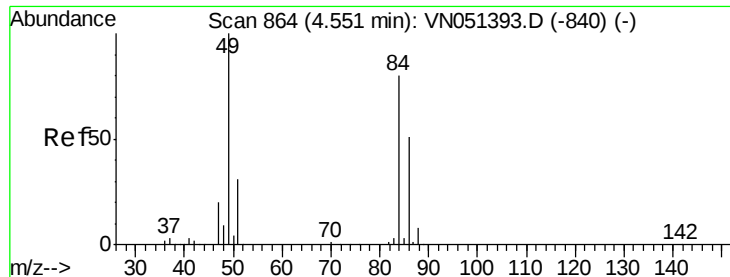
43 100

74 21.8 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VN051599.D (-771) (-)

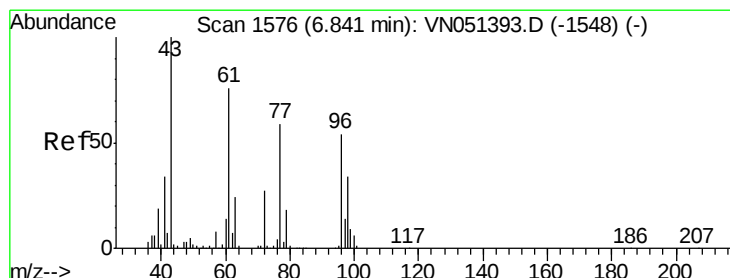
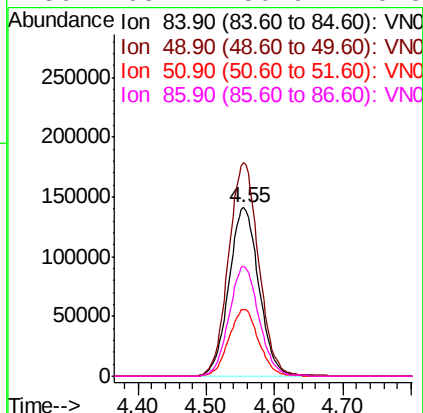
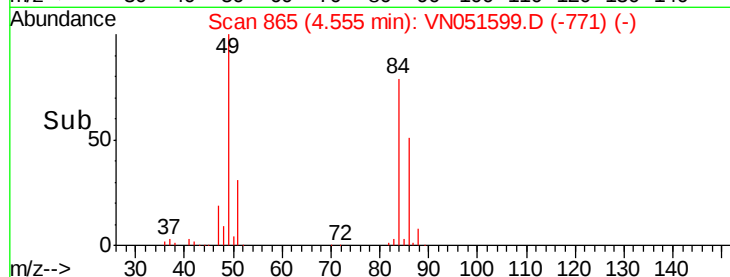
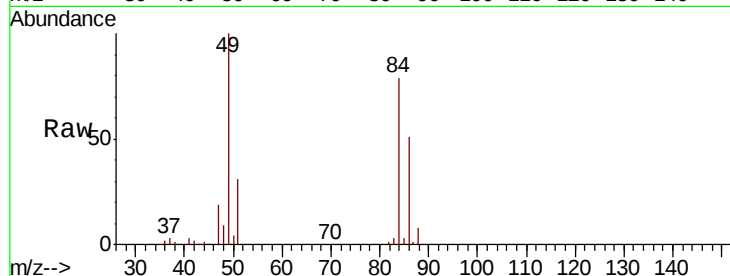




#20
Methvlene Chloride
Concen: 55.844 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

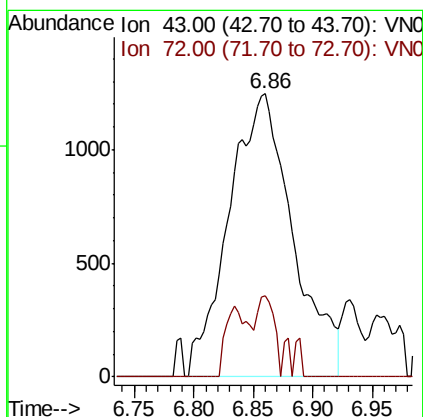
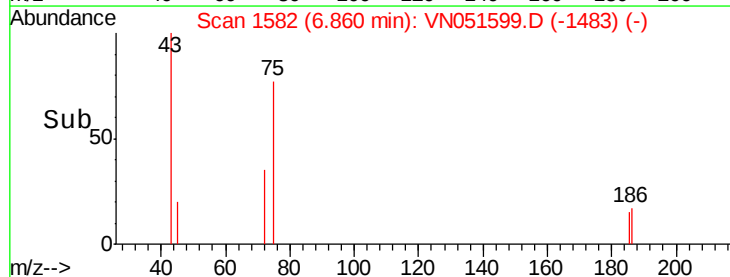
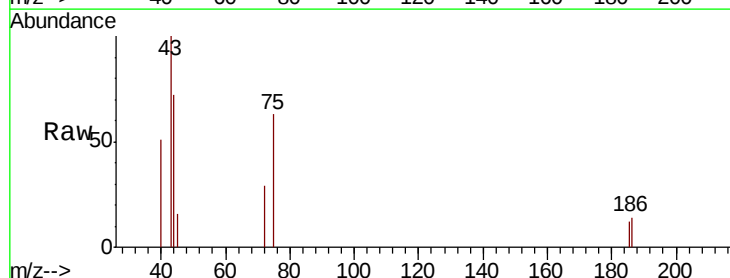
Instrument :
MSVOA_N
ClientSampled :
TP-1

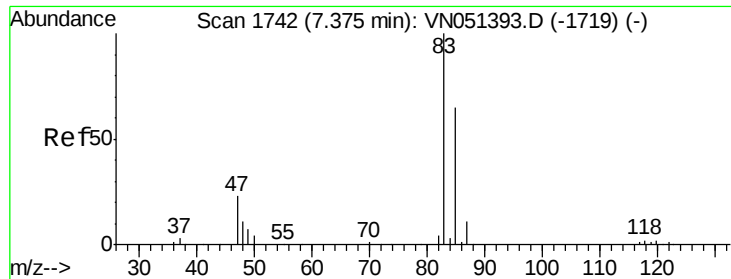
Tot Ion: 84 Resp: 432433
Ion Ratio Lower Upper
84 100
49 126.8 99.9 149.9
51 39.8 31.4 47.2
86 65.1 50.9 76.3



#25
2-Butanone
Concen: 1.740 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

Tgt Ion: 43 Resp: 4661
Ion Ratio Lower Upper
43 100
72 28.6 21.8 32.6

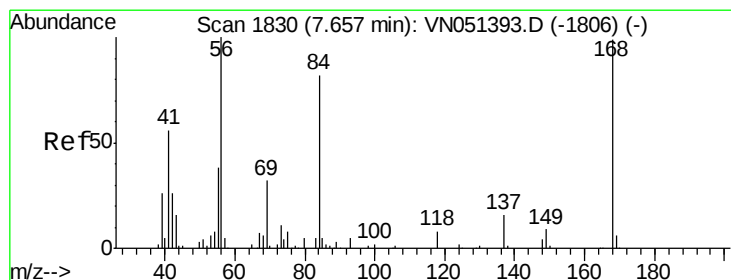
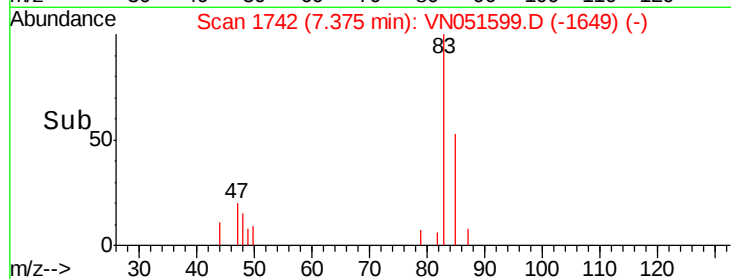
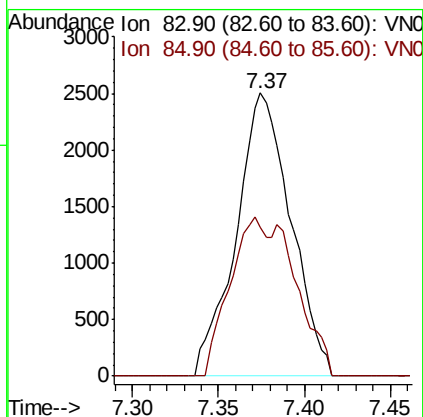
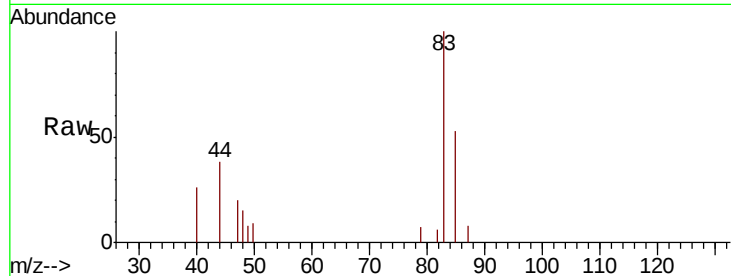




#30
Chloroform
Concen: 0.416 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

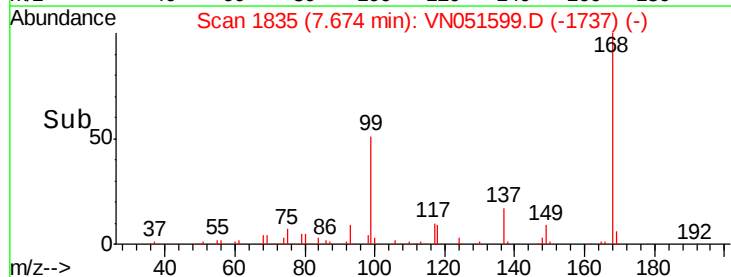
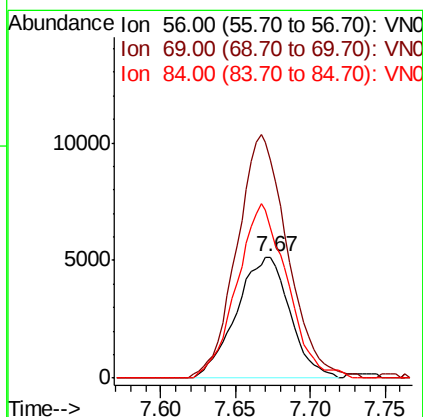
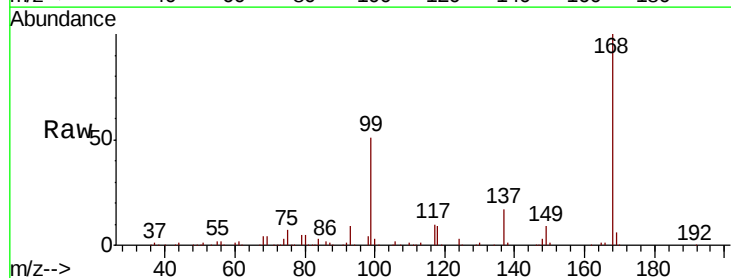
Instrument :
MSVOA_N
ClientSampleId :
TP-1

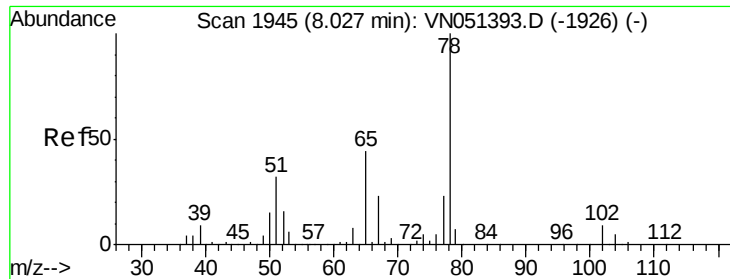
Tot Ion: 83 Resp: 5539
Ion Ratio Lower Upper
83 100
85 52.7 51.8 77.6



#31
Cyclohexane
Concen: 1.037 ug/l
RT: 7.67 min Scan# 1835
Delta R.T. 0.02 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

Tgt Ion: 56 Resp: 12778
Ion Ratio Lower Upper
56 100
69 179.7 25.8 38.6#
84 123.6 66.0 99.0#

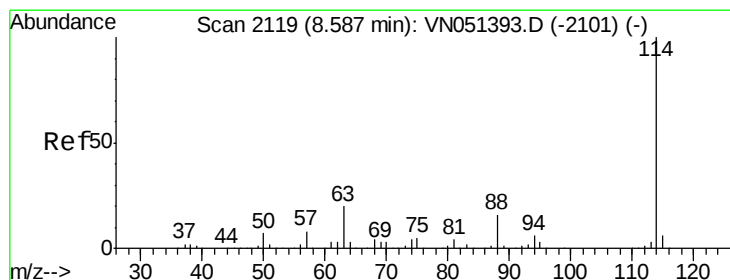
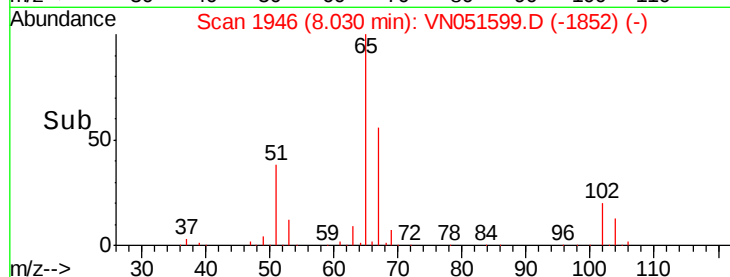
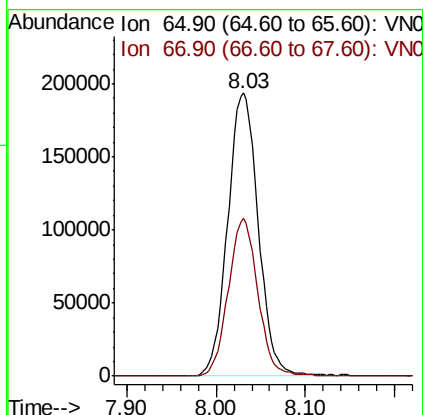
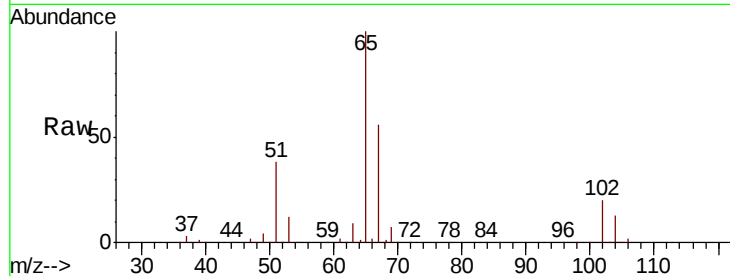




#33
 1,2-Dichloroethane-d4
 Concen: 58.814 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051599.D
 Acq: 27 Sep 2018 22:11

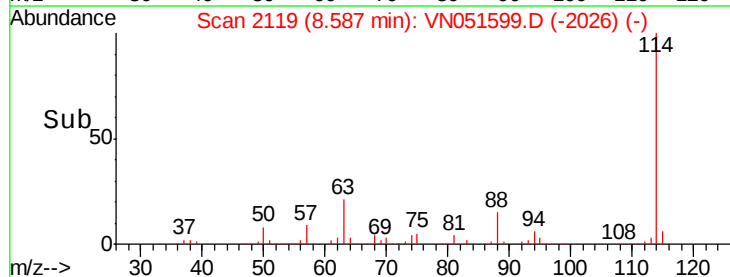
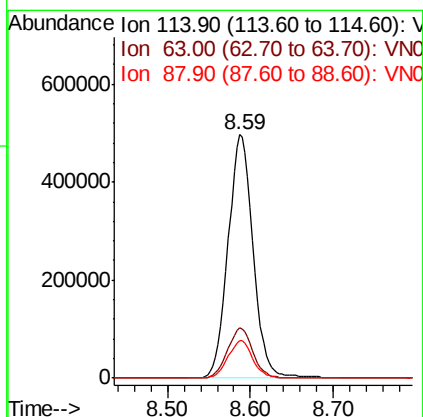
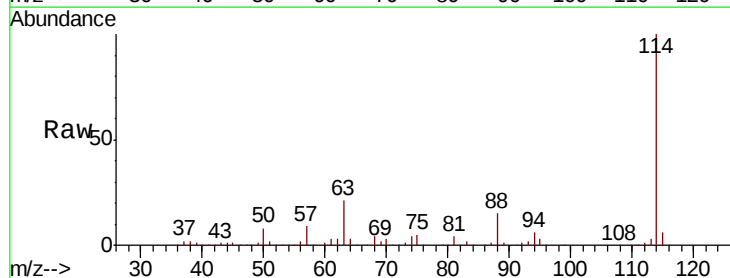
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1

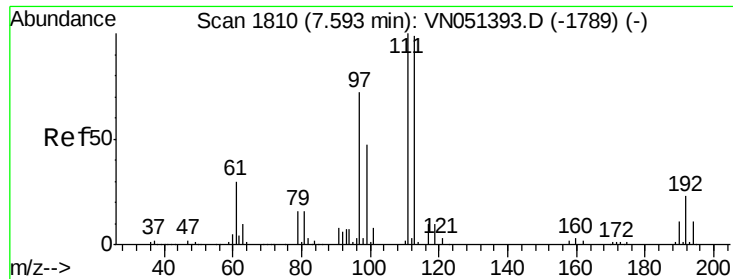
Tot Ion: 65 Resp: 460237
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051599.D
 Acq: 27 Sep 2018 22:11

Tgt Ion: 114 Resp: 1045233
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.2
 88 15.4 0.0 31.4

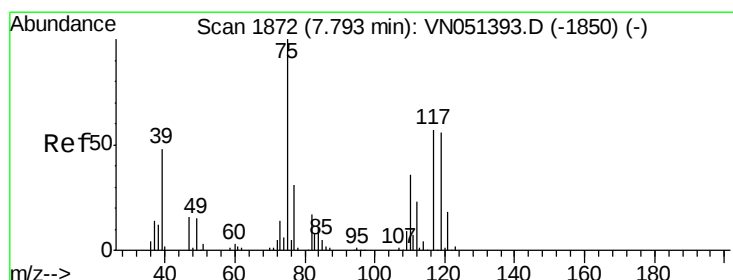
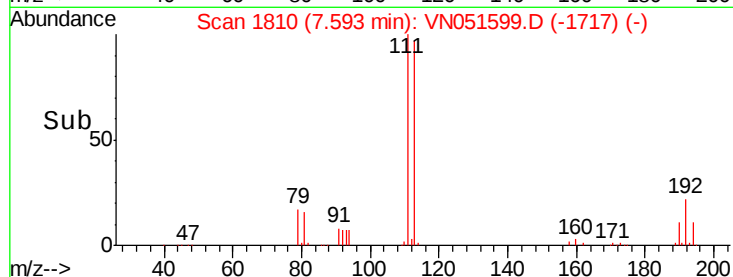
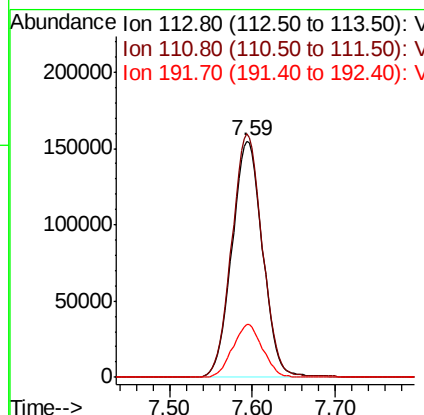
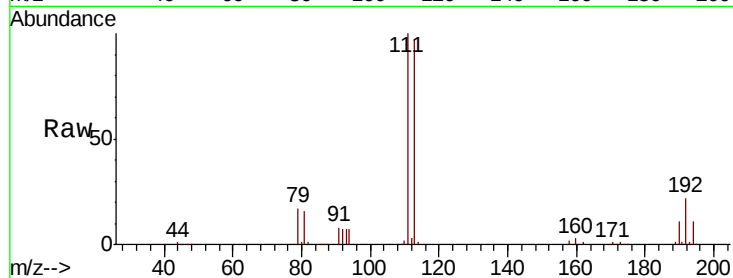




#35
 Dibromofluoromethane
 Concen: 47.668 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051599.D
 Acq: 27 Sep 2018 22:11

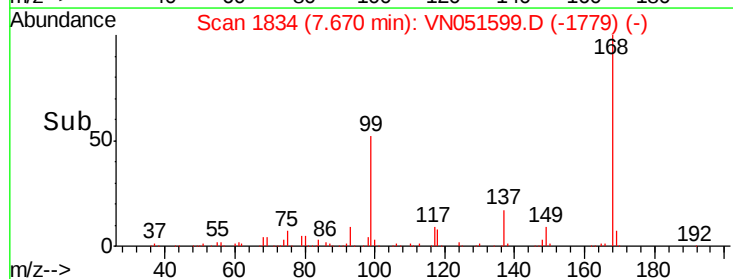
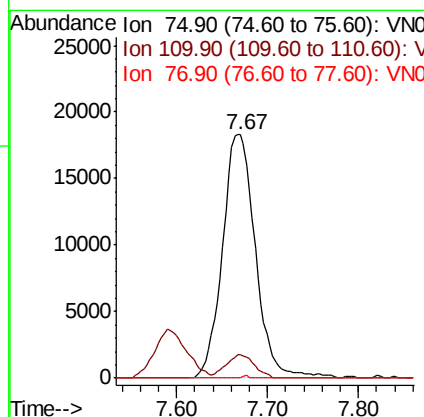
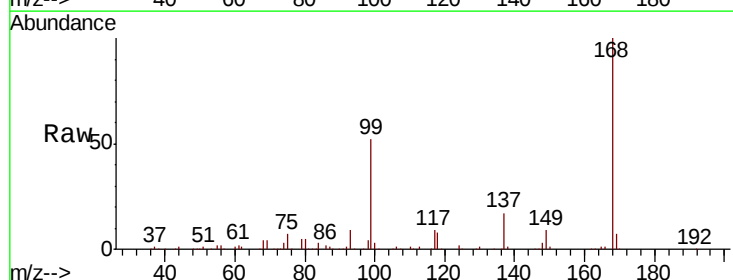
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

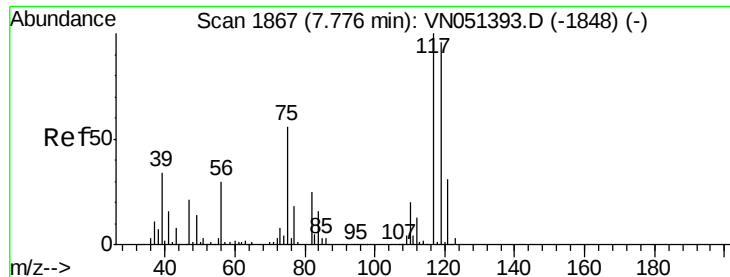
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.6	123.8
192	21.9	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.801 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051599.D
 Acq: 27 Sep 2018 22:11

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.1	54.3#
77	0.1	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.673 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

Instrument :

MSVOA_N

ClientSampleId :

TP-1

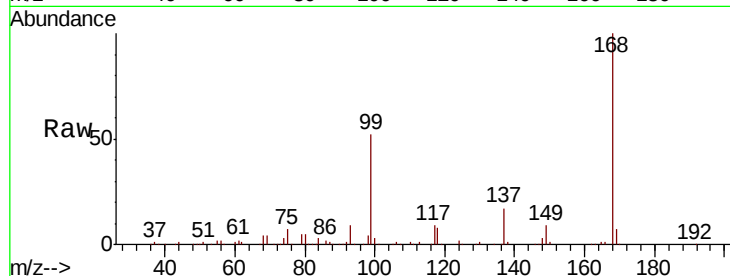
Tot Ion:117 Resp: 59163

Ion Ratio Lower Upper

117 100

119 4.7 76.9 115.3#

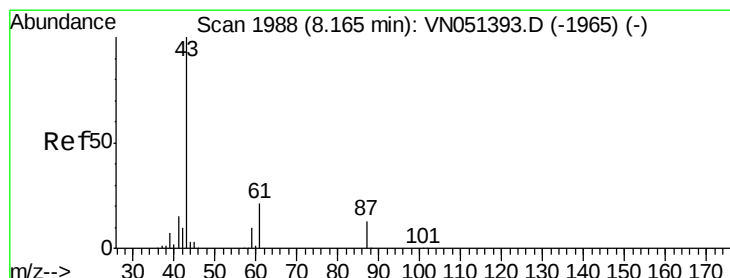
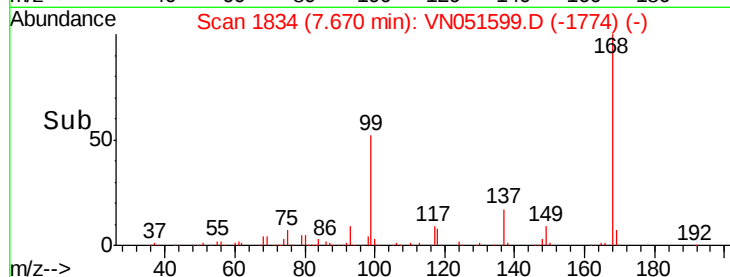
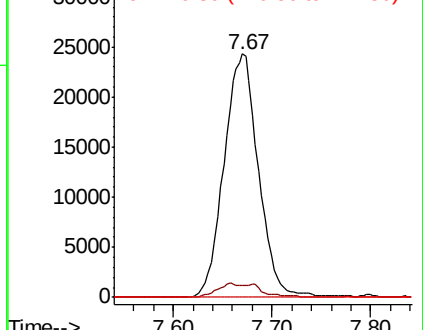
121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 28.268 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

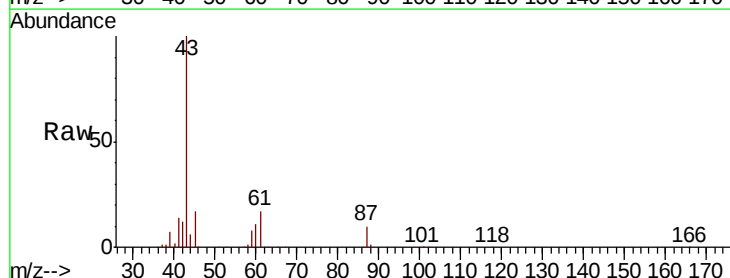
Tgt Ion: 43 Resp: 355738

Ion Ratio Lower Upper

43 100

61 15.2 16.8 25.2#

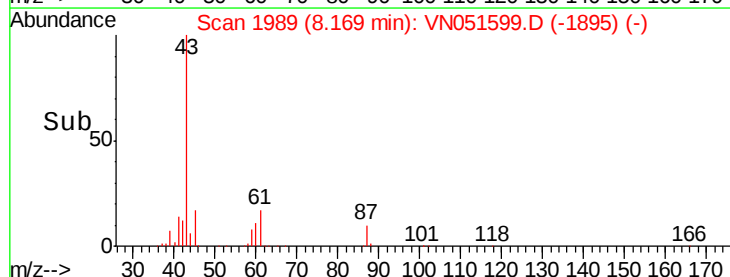
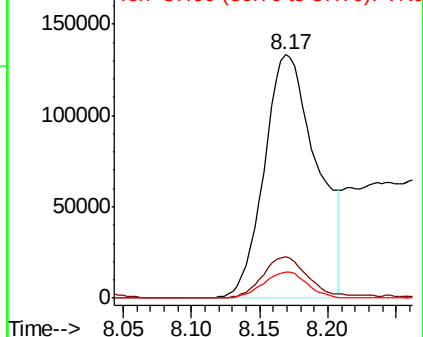
87 8.9 10.7 16.1#

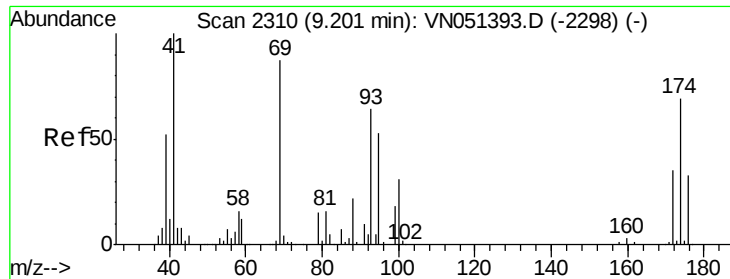


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

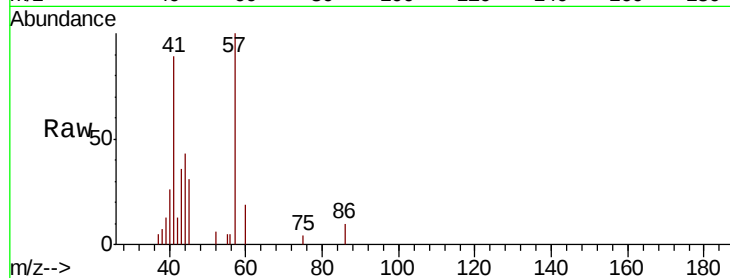




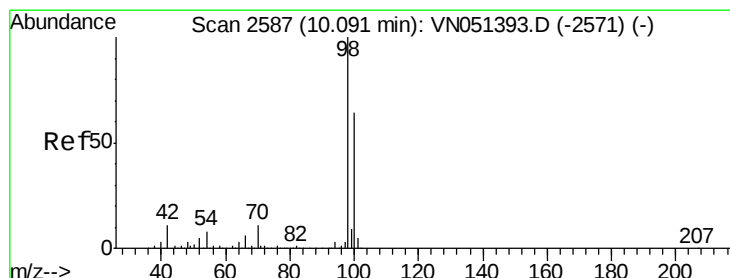
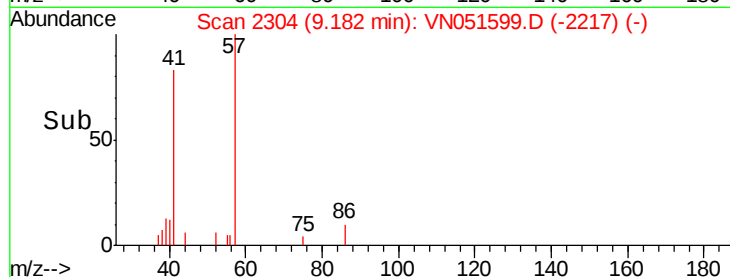
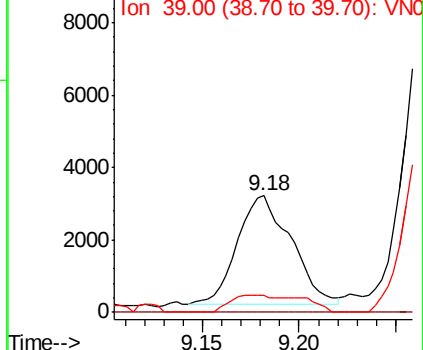
#48
Methvl methacrylate
Concen: 0.924 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Tot Ion: 41 Resp: 5799
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 12.6 43.8 65.8#

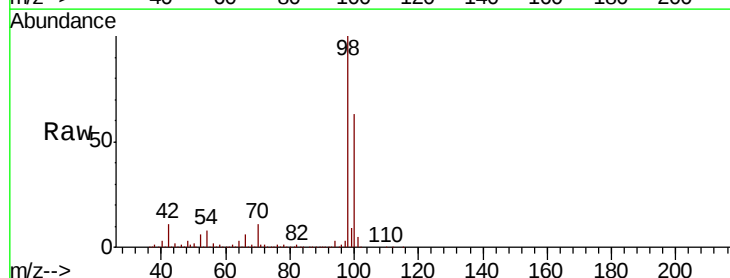


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

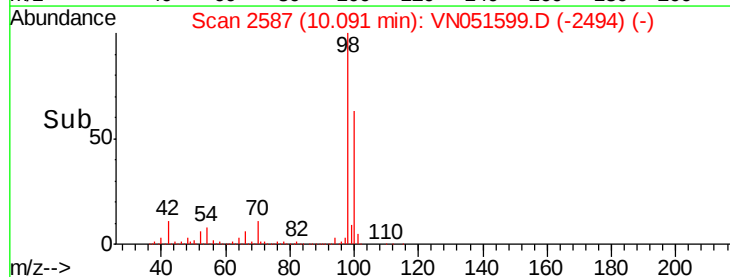
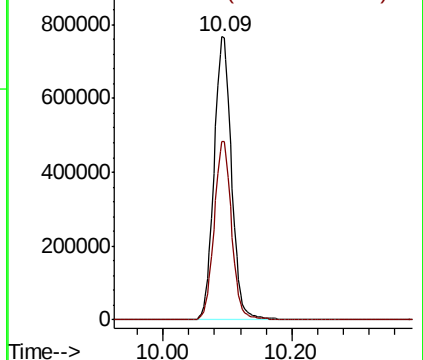


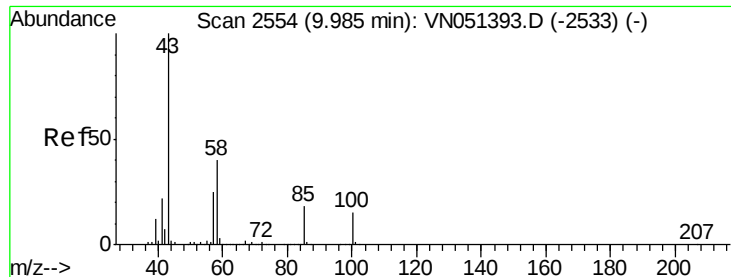
#50
Toluene-d8
Concen: 45.921 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

Tgt Ion: 98 Resp: 1445316
Ion Ratio Lower Upper
98 100
100 62.9 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC

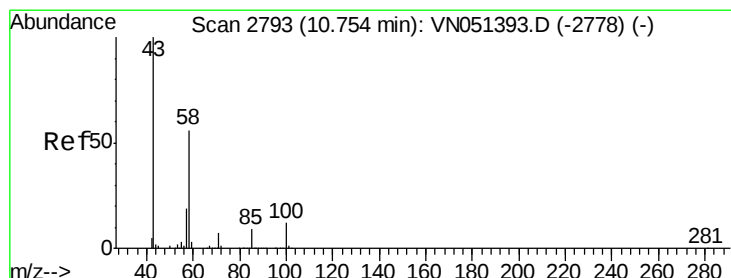
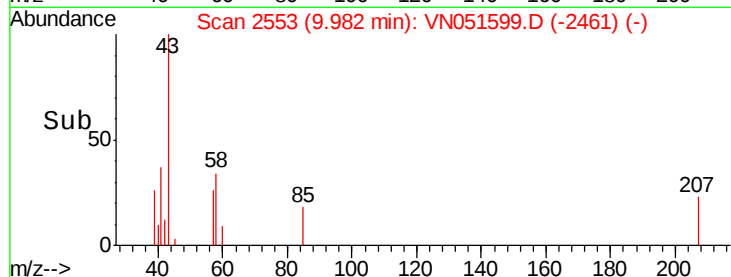
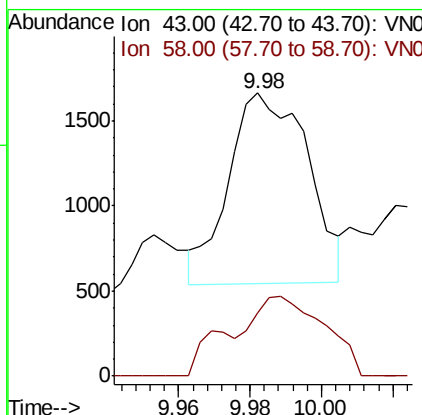
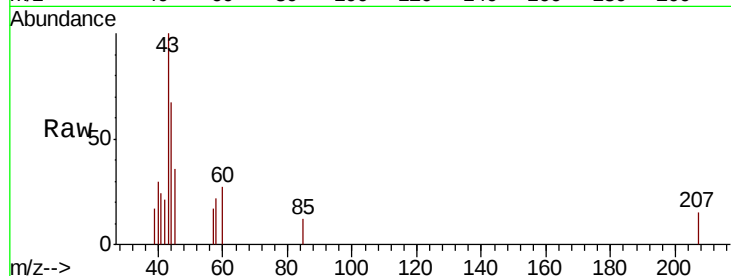




#51
4-Methyl-2-Pentanone
Concen: 0.248 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

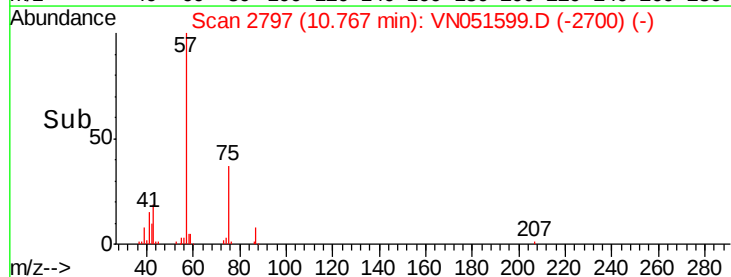
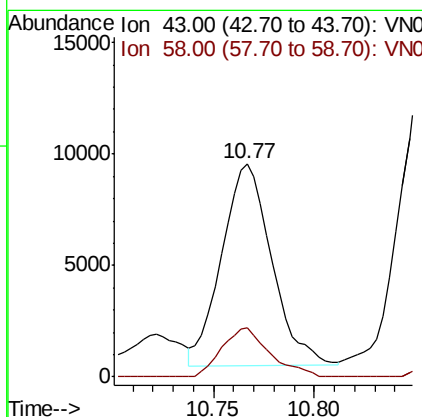
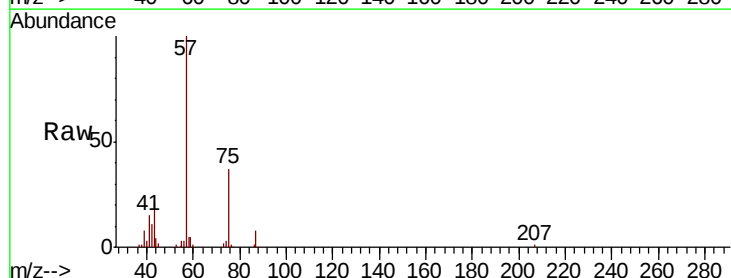
Instrument :
MSVOA_N
ClientSampled :
TP-1

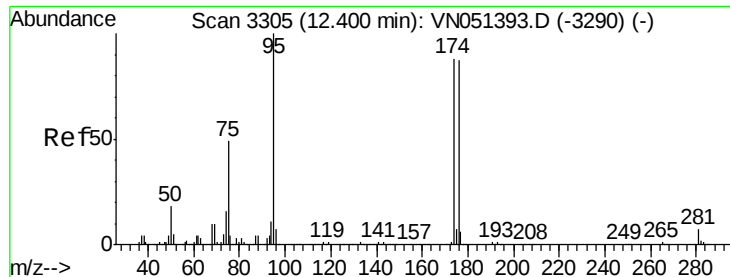
Tot Ion: 43 Resp: 1714
Ion Ratio Lower Upper
43 100
58 49.2 31.5 47.3#



#59
2-Hexanone
Concen: 3.498 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051599.D
Acq: 27 Sep 2018 22:11

Tgt Ion: 43 Resp: 15693
Ion Ratio Lower Upper
43 100
58 23.1 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 37.970 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

Instrument :

MSVOA_N

ClientSampled :

TP-1

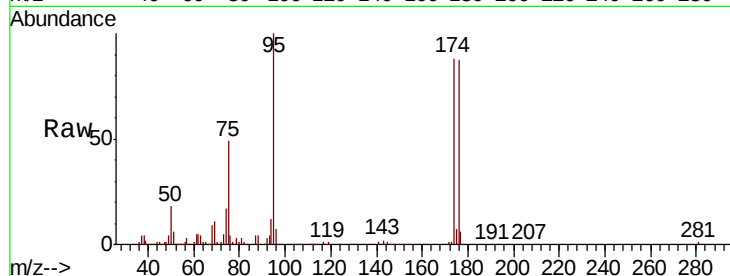
Tot Ion: 95 Resp: 386605

Ion Ratio Lower Upper

95 100

174 89.4 0.0 181.6

176 85.3 0.0 176.4



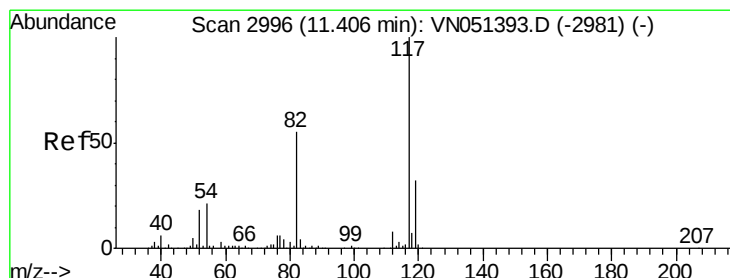
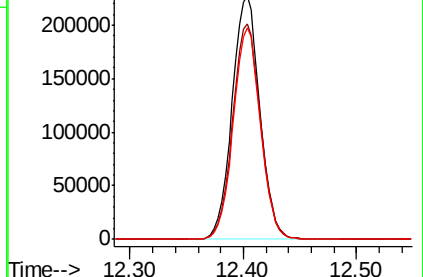
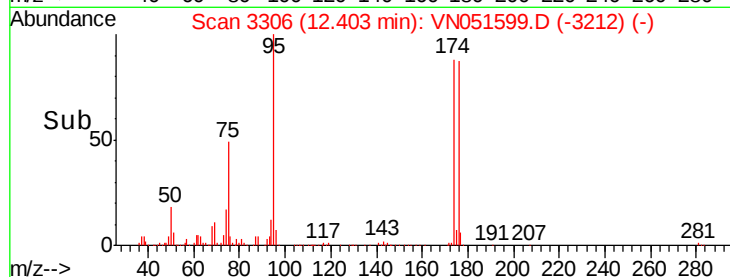
Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

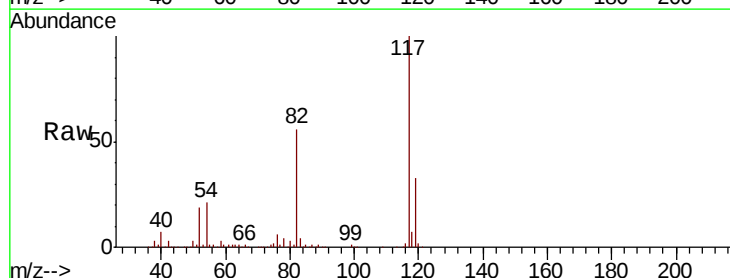
Tgt Ion: 117 Resp: 868781

Ion Ratio Lower Upper

117 100

82 56.2 44.2 66.2

119 33.0 25.9 38.9



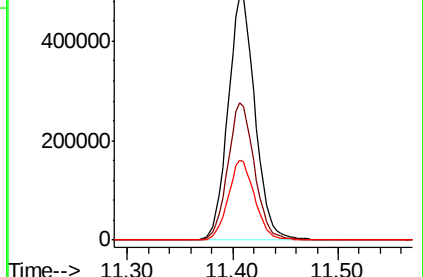
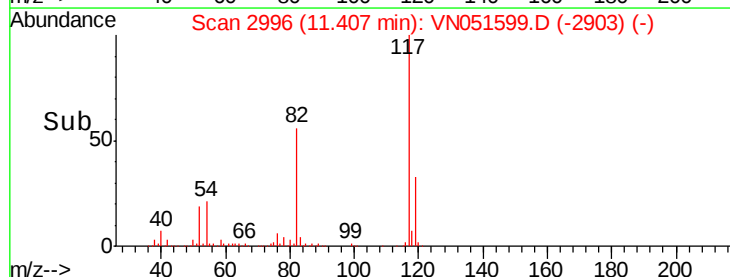
Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

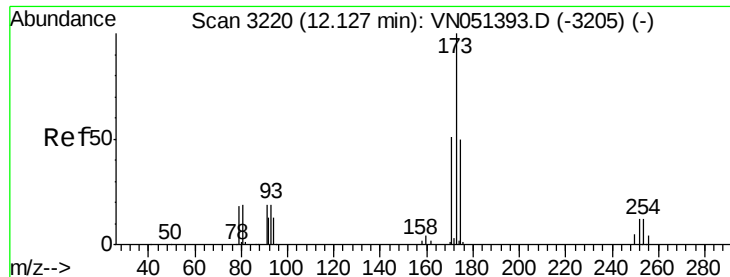
Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

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

Time-->

11.30 11.40 11.50





#71

Bromoform

Concen: 0.879 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

Instrument :

MSVOA_N

ClientSampleId :

TP-1

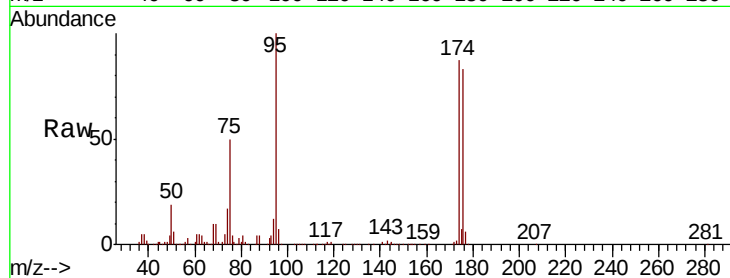
Tot Ion:173 Resp: 5064

Ion Ratio Lower Upper

173 100

175 435.2 24.8 74.3#

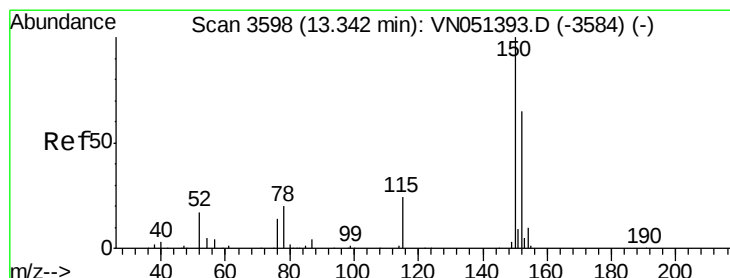
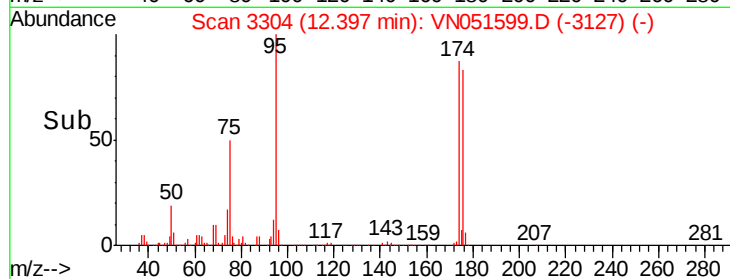
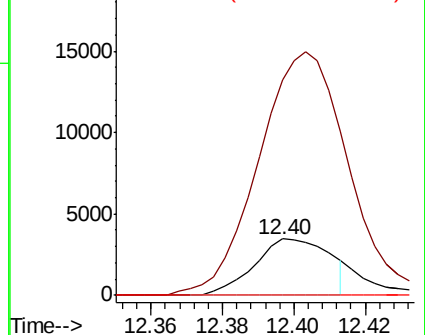
254 0.0 0.2 0.2#



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: VN051599.D

Acq: 27 Sep 2018 22:11

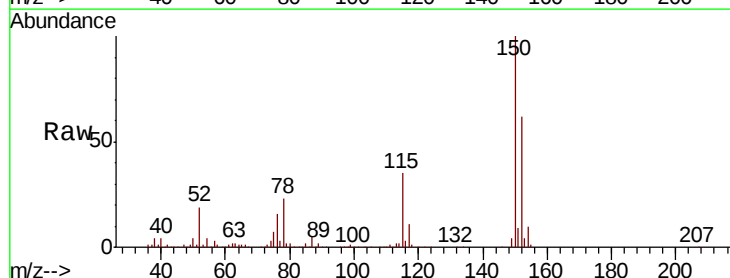
Tgt Ion:152 Resp: 312283

Ion Ratio Lower Upper

152 100

115 55.8 28.3 84.9

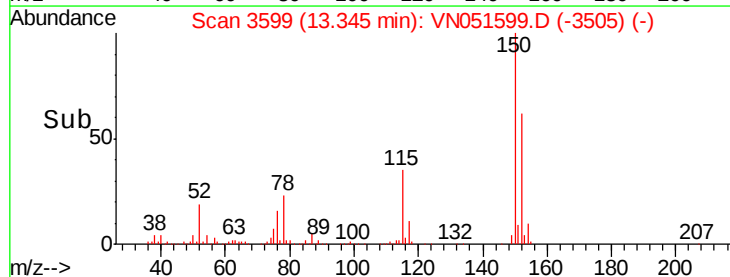
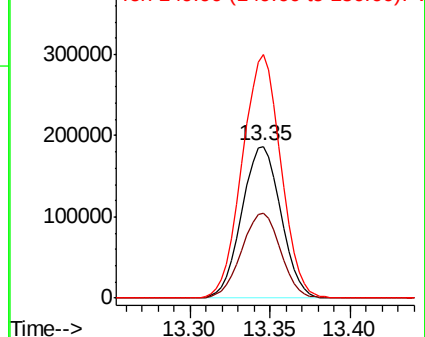
150 158.3 0.0 353.6

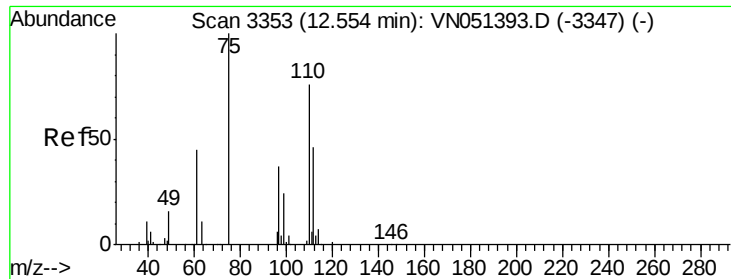


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.691 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

Instrument :

MSVOA_N

ClientSampleId :

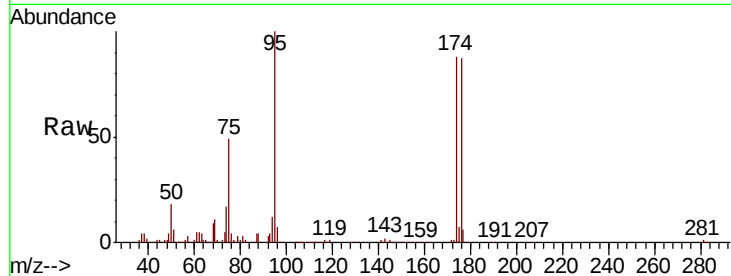
TP-1

Tot Ion: 75 Resp: 190208

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

120000

100000

80000

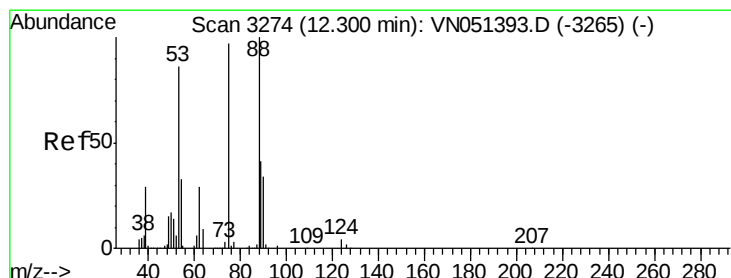
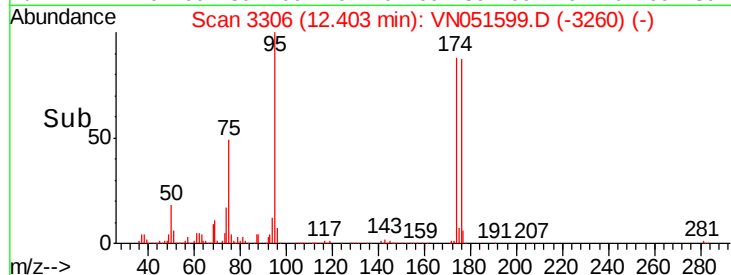
60000

40000

20000

0

12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 112.821 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

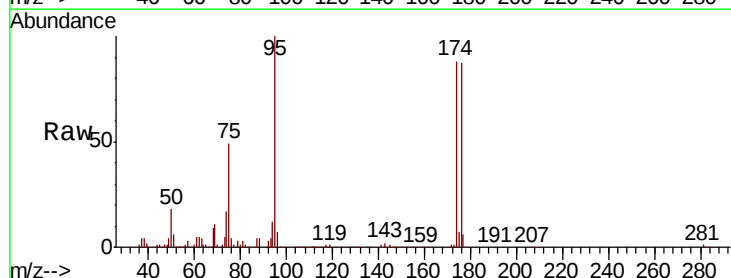
Tgt Ion: 75 Resp: 190208

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

89 0.0 36.7 55.1#



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

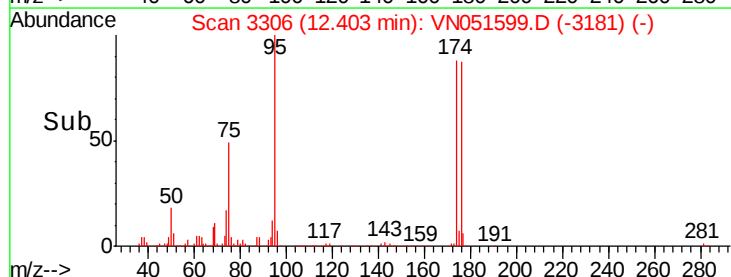
150000

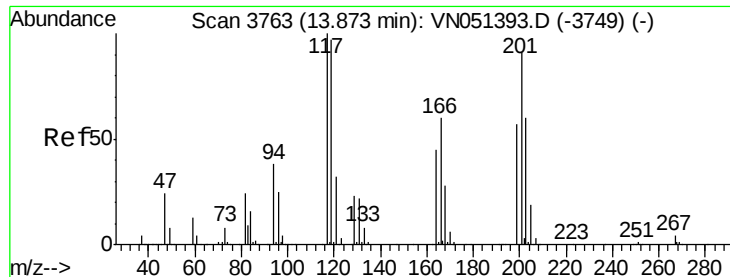
100000

50000

0

12.30 12.40 12.50





#90

Hexachloroethane

Concen: 0.224 ug/l

RT: 13.89 min Scan# 3769

Delta R.T. 0.02 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

Instrument :

MSVOA_N

ClientSampled :

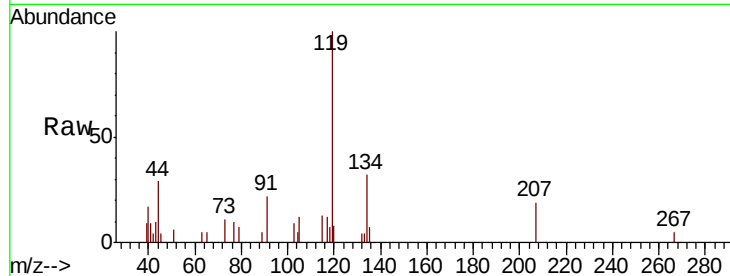
TP-1

Tot Ion:117 Resp: 998

Ion Ratio Lower Upper

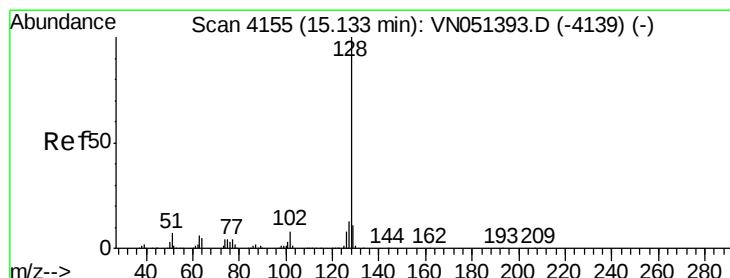
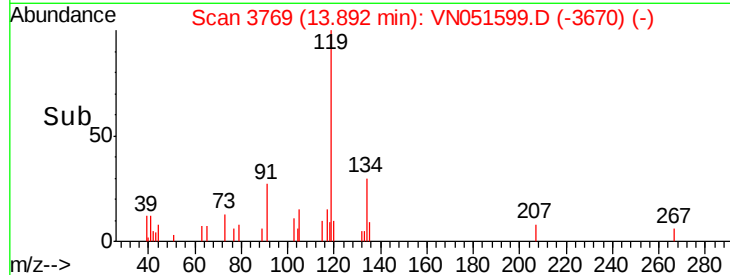
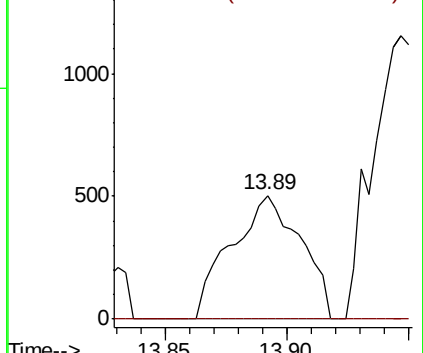
117 100

201 0.0 45.5 136.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 10.031 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051599.D

Acq: 27 Sep 2018 22:11

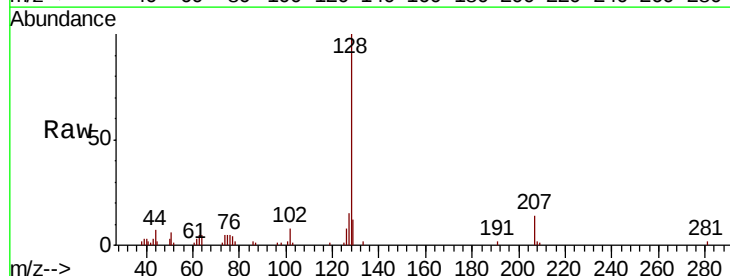
Tgt Ion:128 Resp: 27491

Ion Ratio Lower Upper

128 100

127 15.4 10.5 15.7

129 11.0 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

