

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021919\
 Data File : VN053862.D
 Acq On : 19 Feb 2019 12:01
 Operator : JC/SP
 Sample : K1525-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 M-14-D

Quant Time: Feb 20 03:17:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	677692	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1126924	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1110058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	445546	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	356161	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
35) Dibromofluoromethane	7.59	113	356236	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
50) Toluene-d8	10.09	98	1398738	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
62) 4-Bromofluorobenzene	12.40	95	491274	55.09	ug/l	0.00
Spiked Amount			Recovery	=	110.18%	

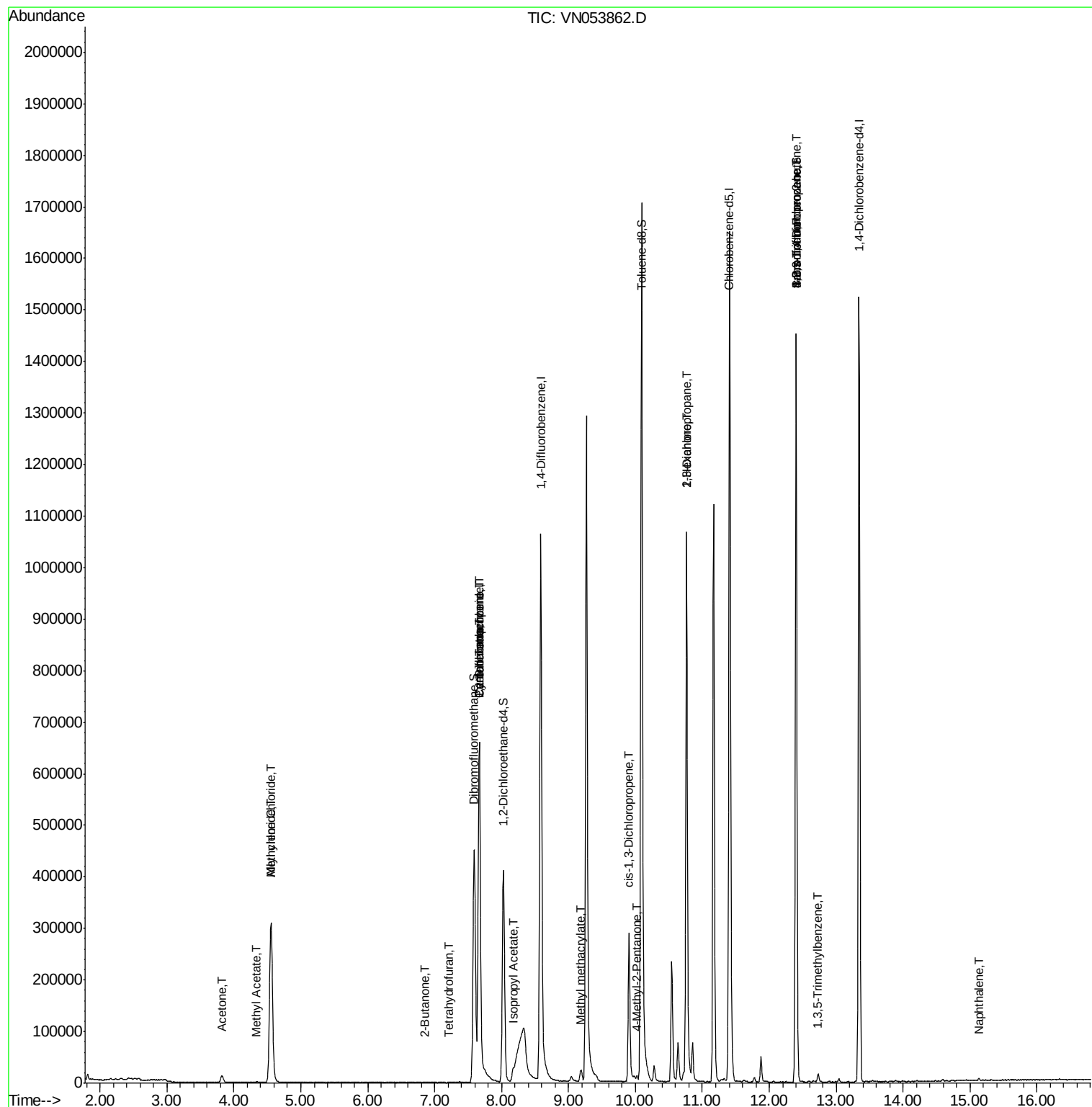
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.56	41	8804	0.881	ug/l #	27
16) Acetone	3.82	43	23792	13.643	ug/l	97
18) Methyl Acetate	4.33	43	1800	0.349	ug/l	91
20) Methylene Chloride	4.55	84	254834	34.832	ug/l	97
25) 2-Butanone	6.84	43	2405	0.967	ug/l #	47
29) Tetrahydrofuran	7.21	42	1227	0.768	ug/l #	55
31) Cyclohexane	7.67	56	9303	0.642	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	39744	3.912	ug/l #	49
38) Carbon Tetrachloride	7.67	117	53313	5.210	ug/l #	17
43) Isopropyl Acetate	8.17	43	26882	2.453	ug/l #	80
48) Methyl methacrylate	9.18	41	8711	1.666	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	7737	1.437	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	62120	5.213	ug/l #	62
57) 1,3-Dichloropropane	10.77	76	12412	1.084	ug/l #	43
59) 2-Hexanone	10.76	43	156190	42.731	ug/l #	51
71) Bromoform	12.40	173	3046	0.540	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	226495	39.578	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8426	0.324	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	226495	111.290	ug/l #	15
95) Naphthalene	15.13	128	3987	1.933	ug/l #	93

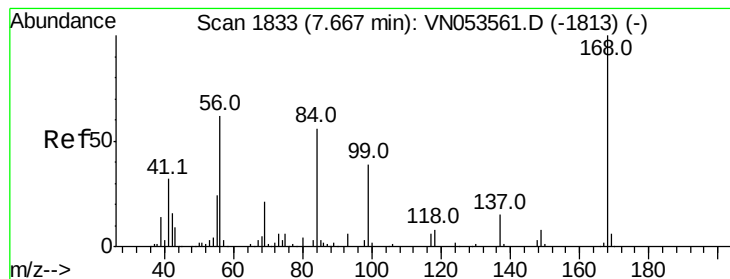
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampleID :

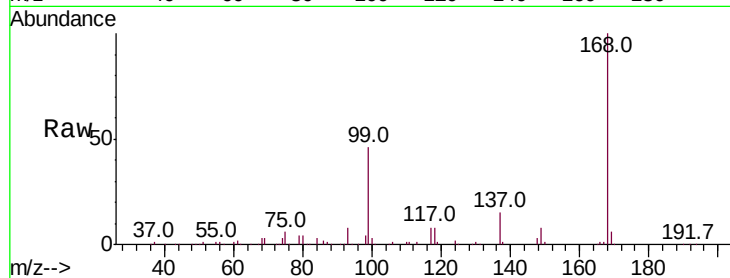
M-14-D

Tot Ion:168 Resp: 677692

Ion Ratio Lower Upper

168 100

99 46.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

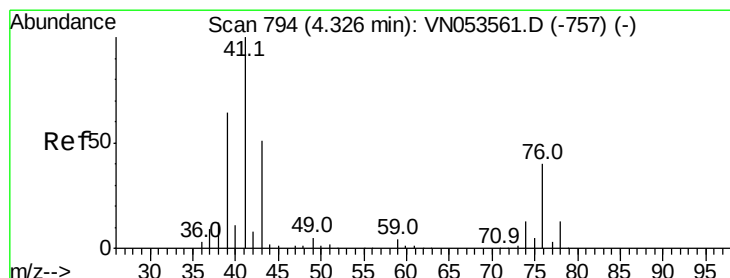
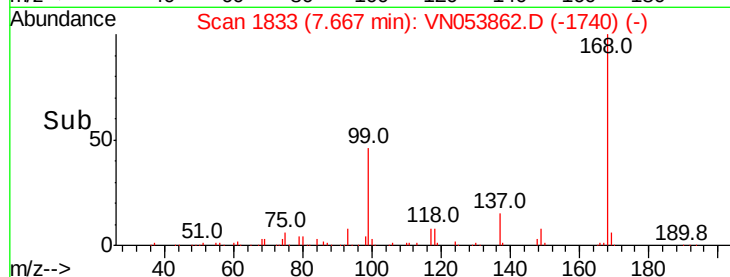
150000

100000

50000

0

Time-->



#14

Allyl chloride

Concen: 0.881 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.23 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

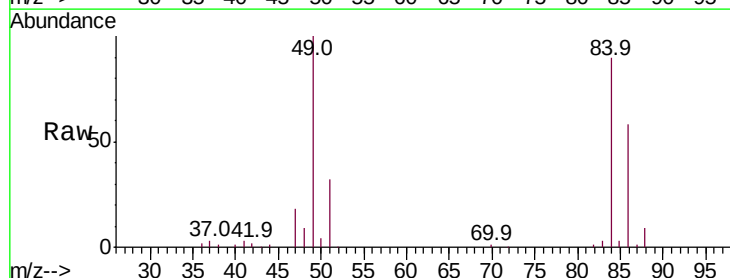
Tgt Ion: 41 Resp: 8804

Ion Ratio Lower Upper

41 100

39 0.0 48.9 73.3#

76 0.0 29.4 44.2#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

4.56

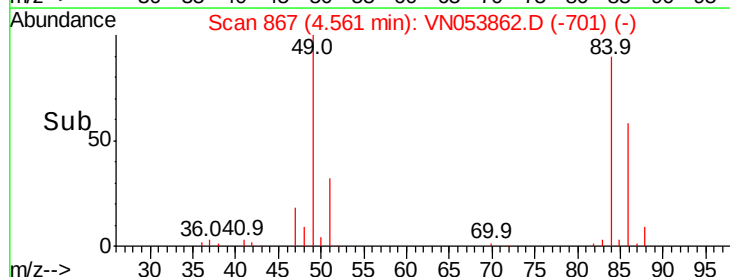
3000

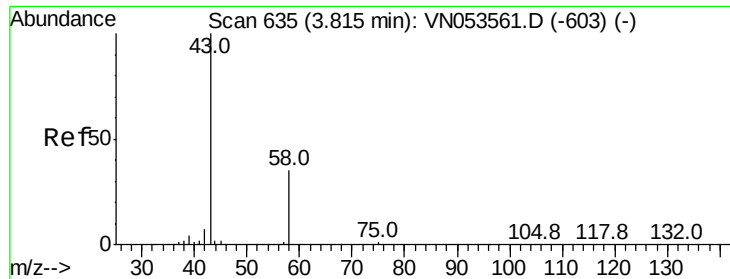
2000

1000

0

Time-->





#16

Acetone

Concen: 13.643 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampled :

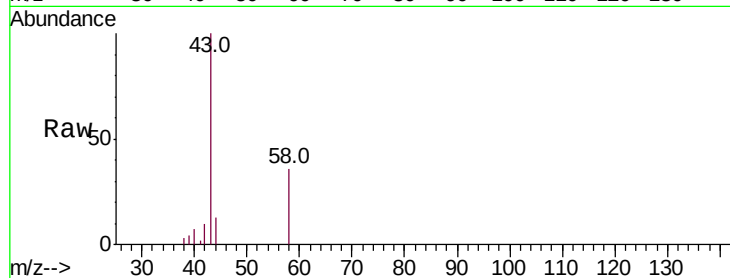
M-14-D

Tot Ion: 43 Resp: 23792

Ion Ratio Lower Upper

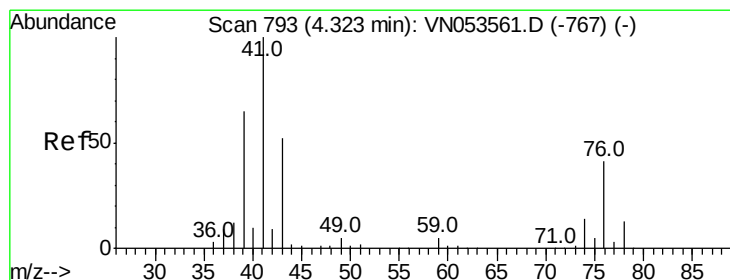
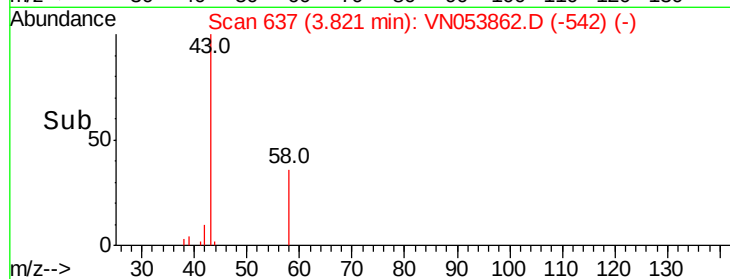
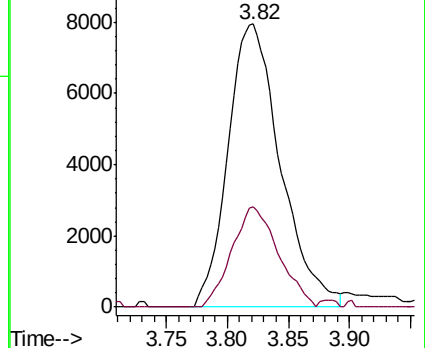
43 100

58 35.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.349 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053862.D

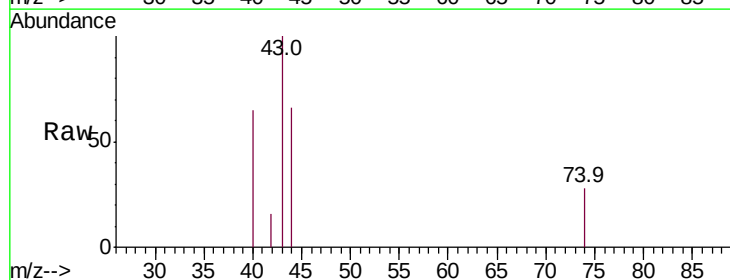
Acq: 19 Feb 2019 12:01

Tgt Ion: 43 Resp: 1800

Ion Ratio Lower Upper

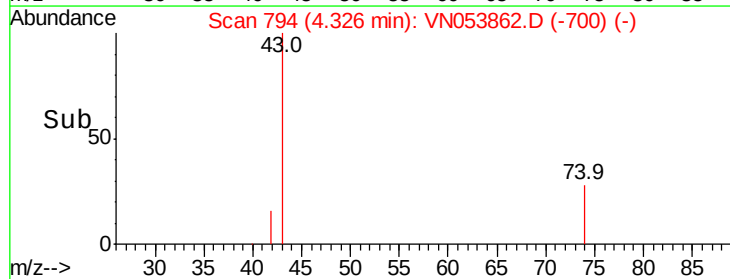
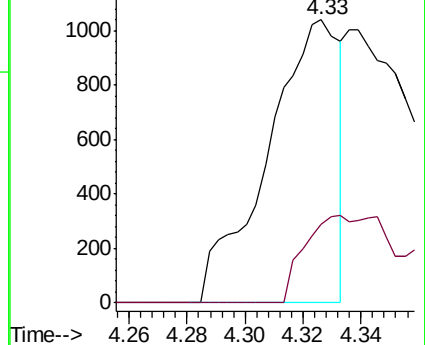
43 100

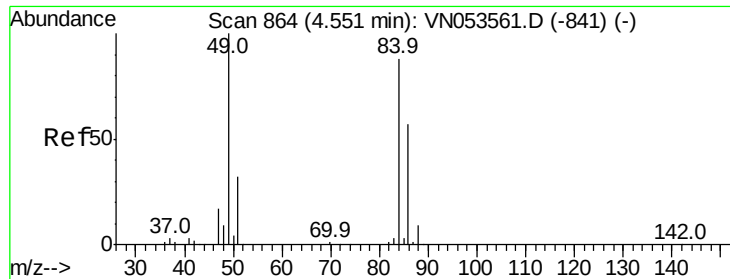
74 19.6 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

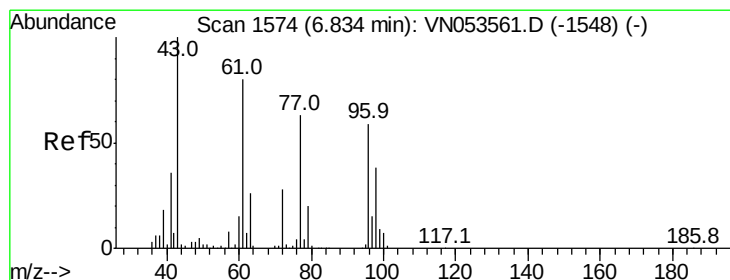
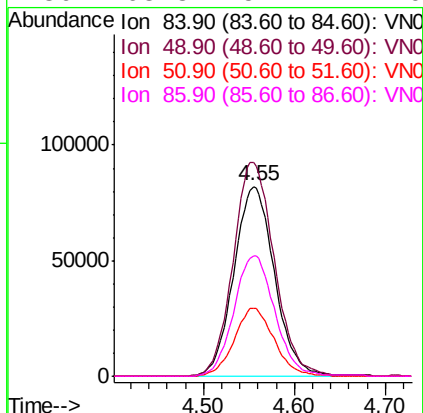
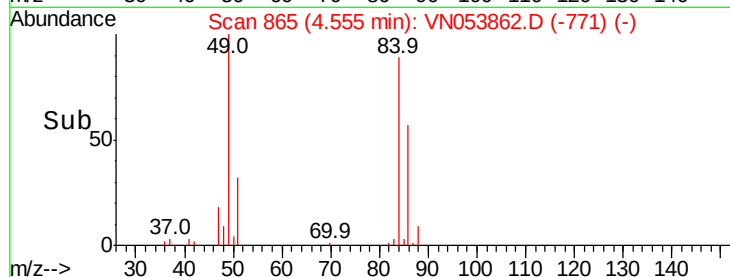
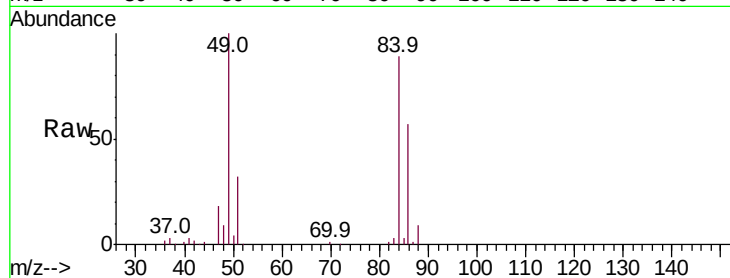




#20
Methylene Chloride
Concen: 34.832 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053862.D
Acq: 19 Feb 2019 12:01

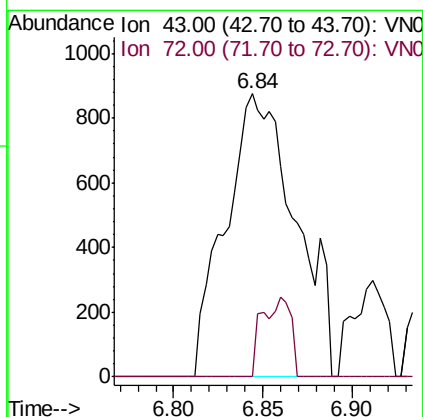
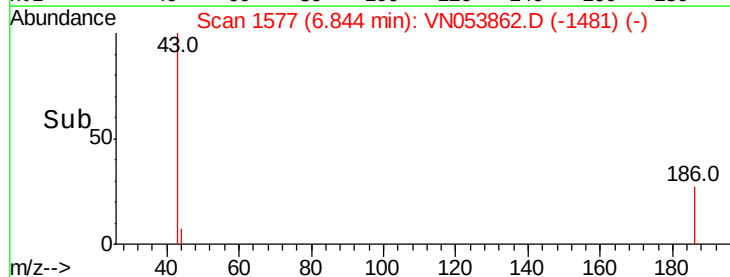
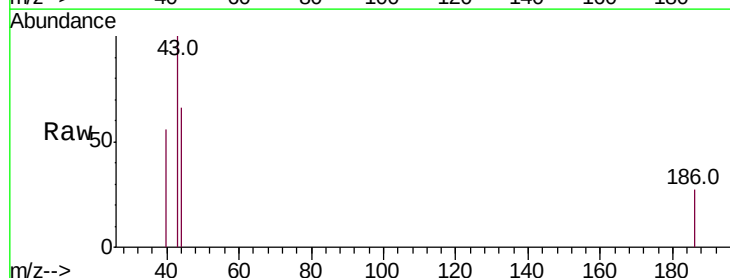
Instrument :
MSVOA_N
ClientSampled :
M-14-D

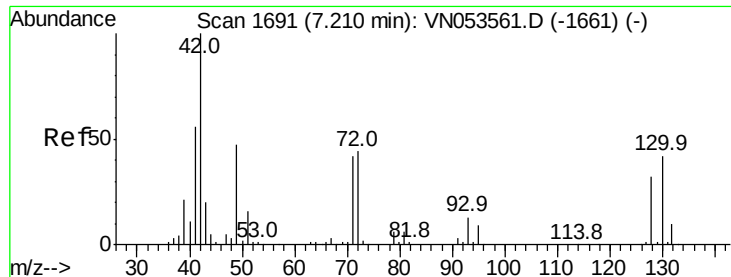
Tot Ion: 84 Resp: 254834
Ion Ratio Lower Upper
84 100
49 112.5 94.3 141.5
51 36.0 29.4 44.2
86 63.8 51.4 77.0



#25
2-Butanone
Concen: 0.967 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053862.D
Acq: 19 Feb 2019 12:01

Tgt Ion: 43 Resp: 2405
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#





#29

Tetrahydrofuran

Concen: 0.768 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampled :

M-14-D

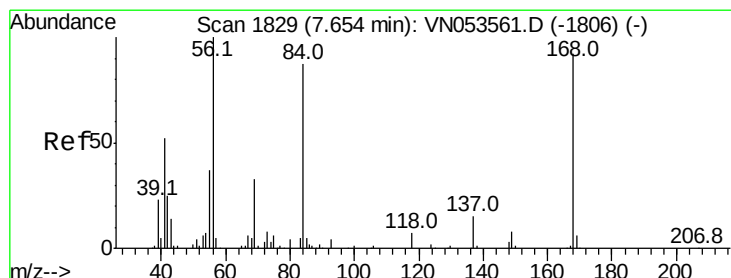
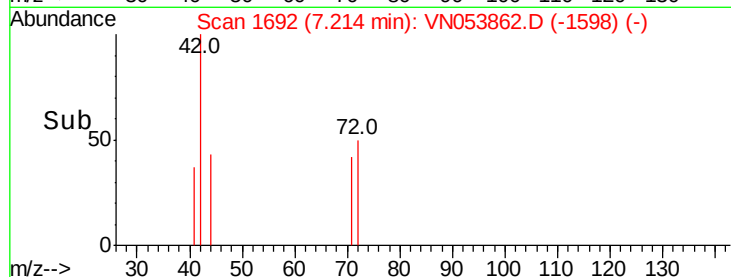
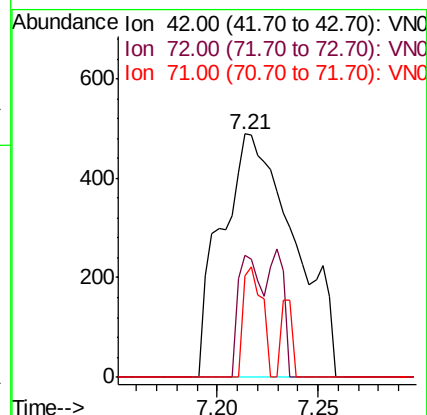
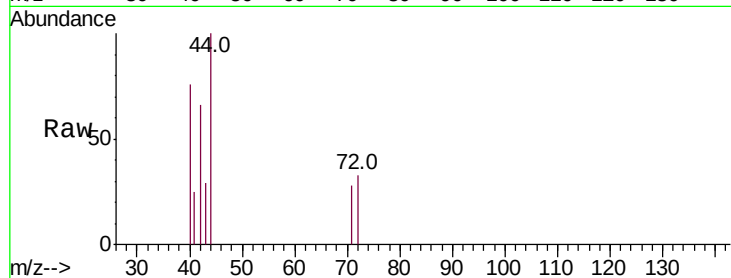
Tot Ion: 42 Resp: 1227

Ion Ratio Lower Upper

42 100

72 16.3 35.2 52.8#

71 11.8 33.0 49.4#



#31

Cyclohexane

Concen: 0.642 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

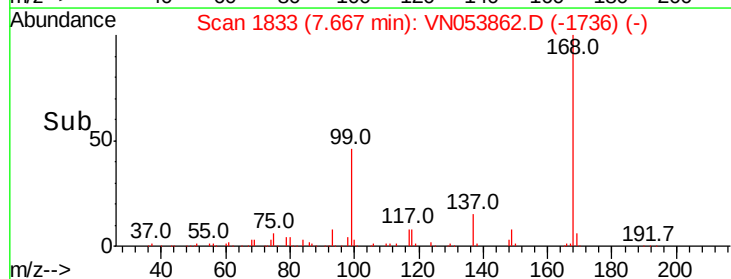
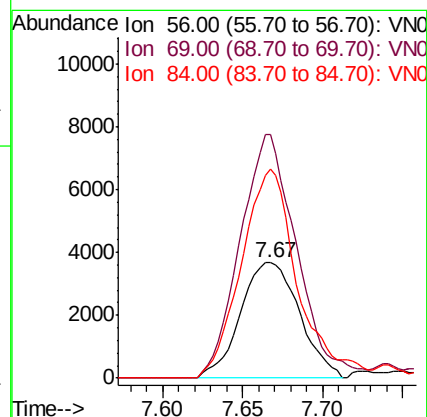
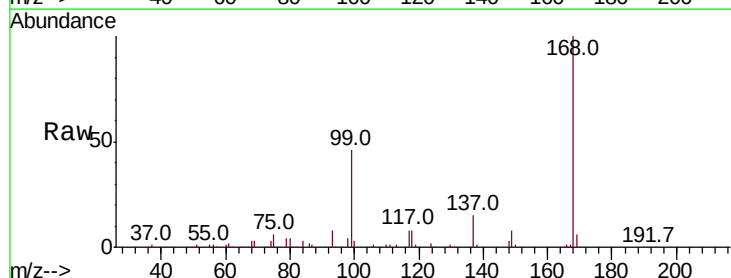
Tgt Ion: 56 Resp: 9303

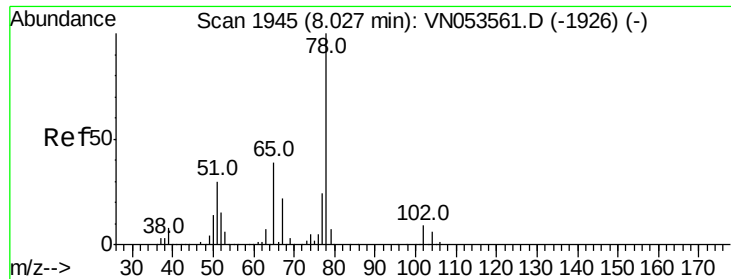
Ion Ratio Lower Upper

56 100

69 210.8 26.4 39.6#

84 181.7 67.9 101.9#

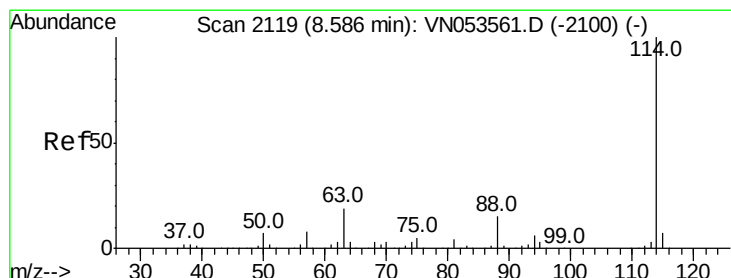
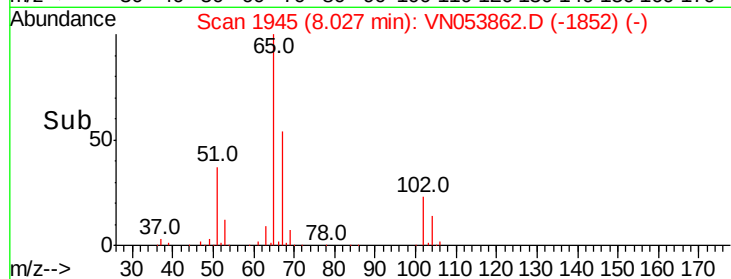
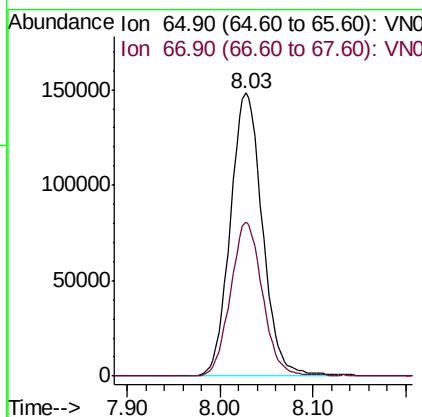
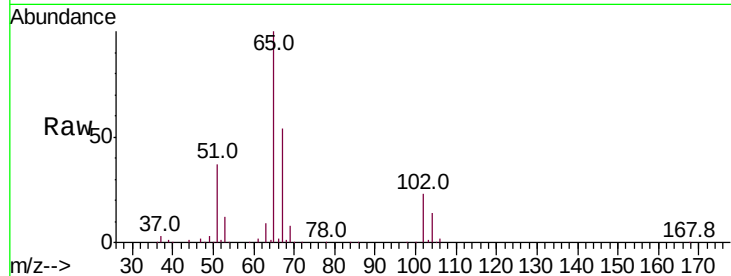




#33
 1,2-Dichloroethane-d4
 Concen: 52.388 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053862.D
 Acq: 19 Feb 2019 12:01

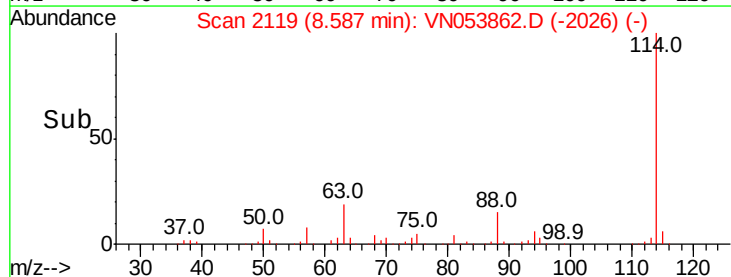
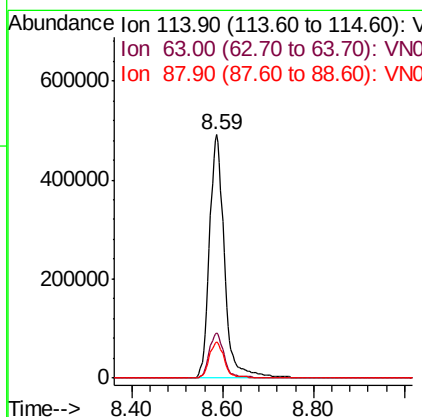
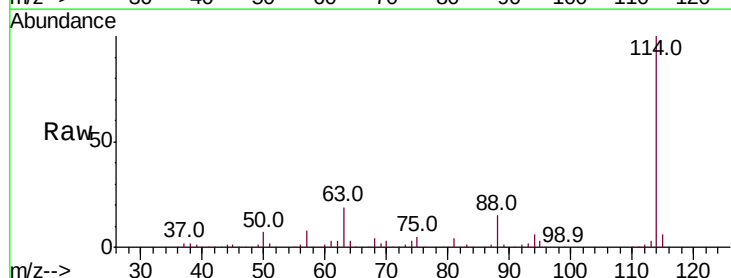
Instrument :
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 M-14-D

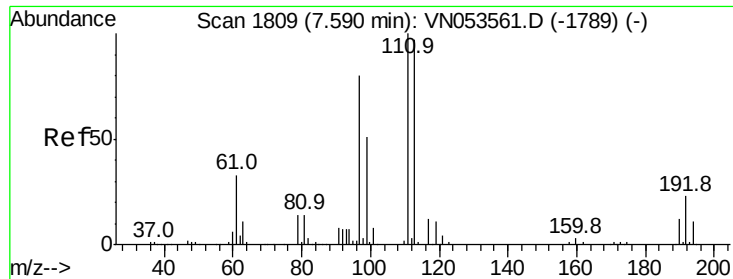
Tot Ion: 65 Resp: 356161
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053862.D
 Acq: 19 Feb 2019 12:01

Tgt Ion: 114 Resp: 1126924
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.6
 88 14.7 0.0 30.4

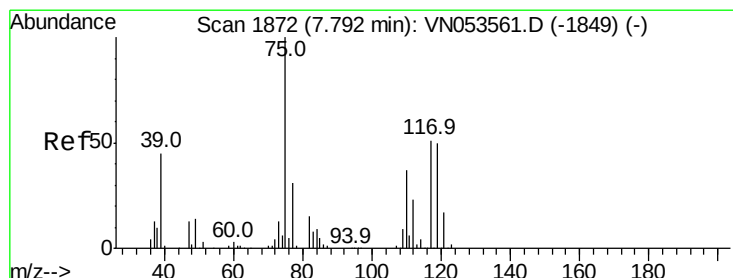
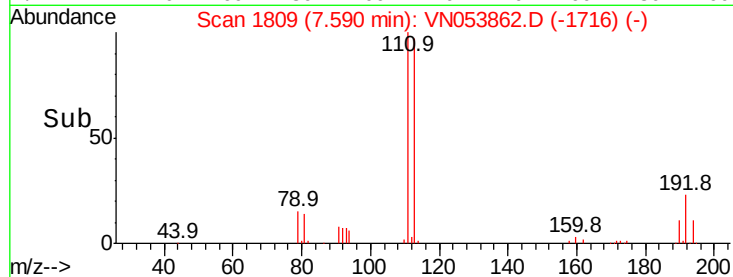
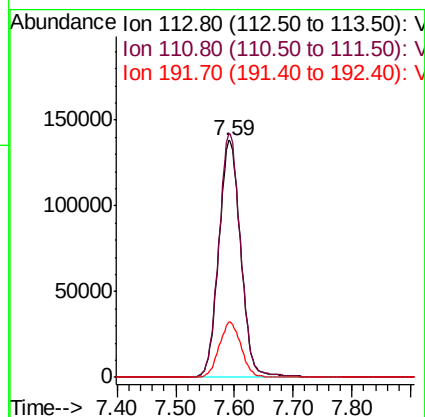
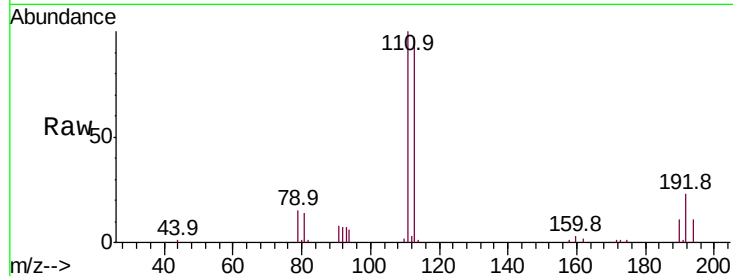




#35
 Dibromofluoromethane
 Concen: 50.028 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053862.D
 Acq: 19 Feb 2019 12:01

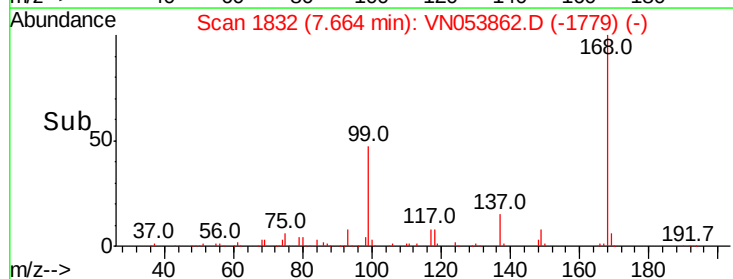
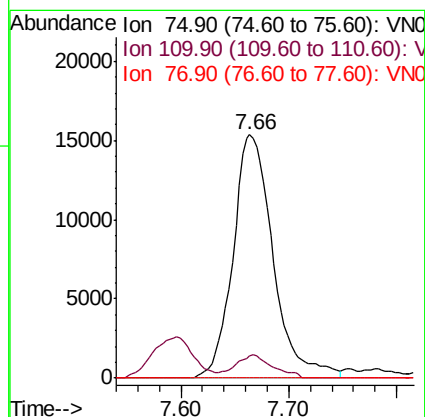
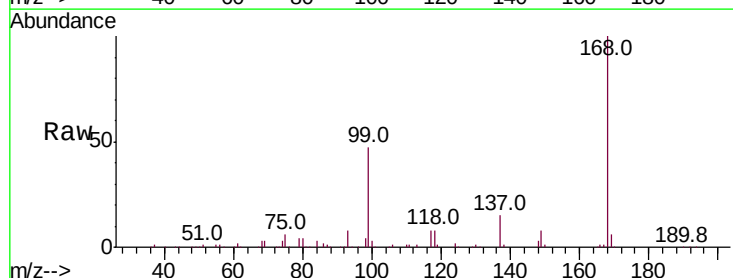
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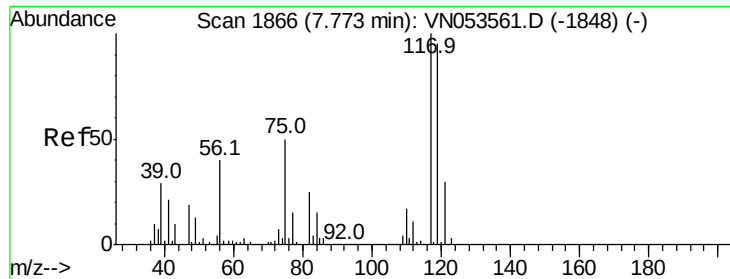
Tot Ion:113 Resp: 356236
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.1 121.7
 192 23.3 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 3.912 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053862.D
 Acq: 19 Feb 2019 12:01

Tgt Ion: 75 Resp: 39744
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.3#
 77 0.0 25.1 37.7#

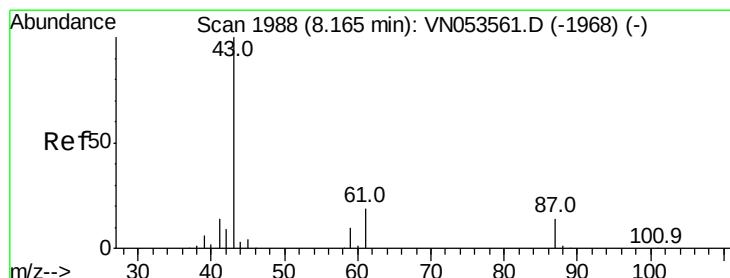
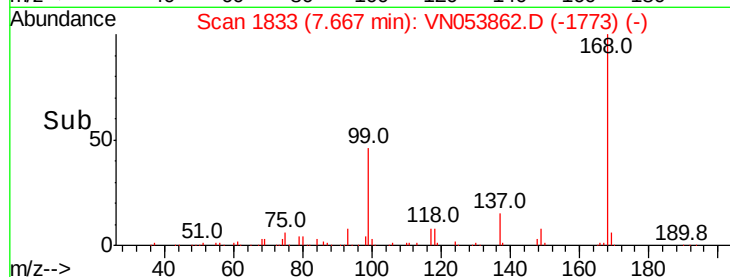
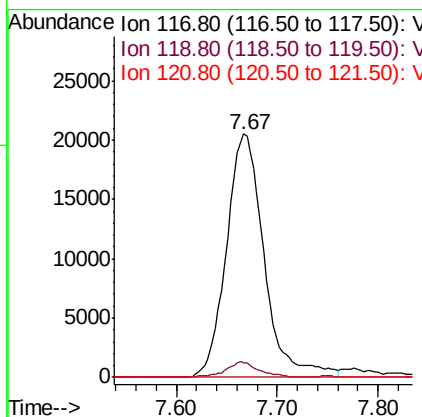
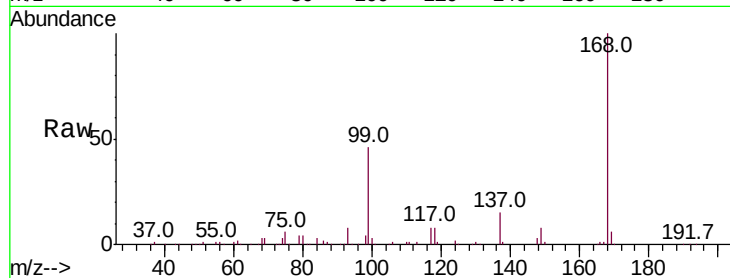




#38
Carbon Tetrachloride
Concen: 5.210 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053862.D
Acq: 19 Feb 2019 12:01

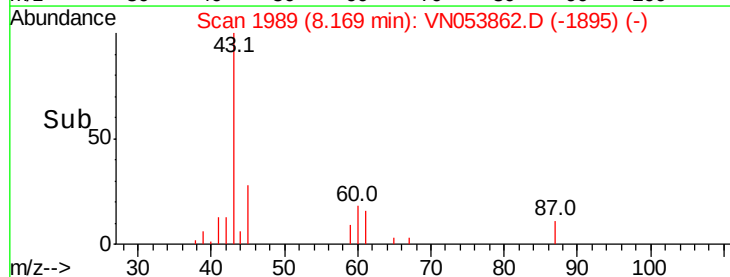
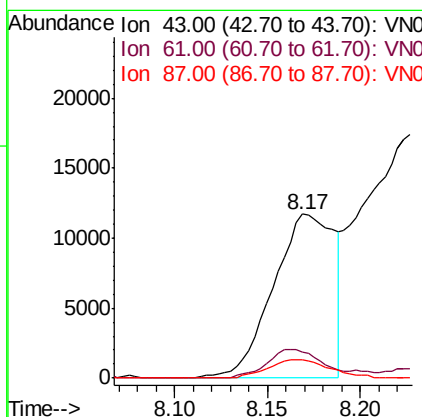
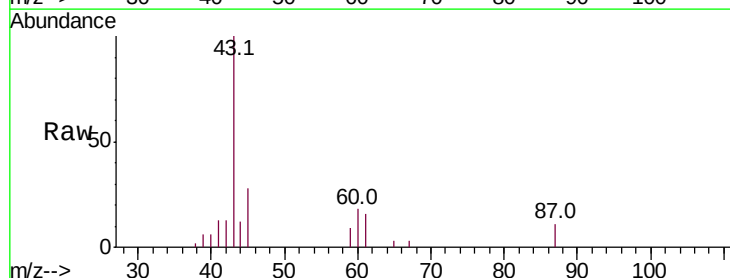
Instrument :
MSVOA_N
ClientSampled :
M-14-D

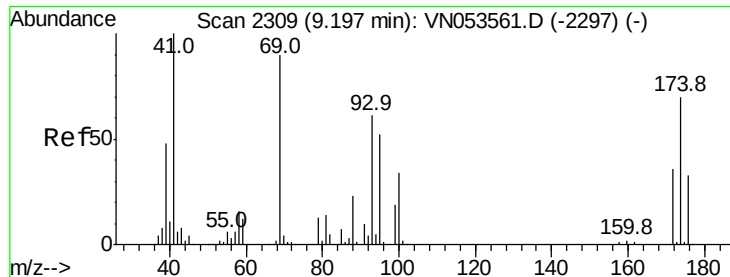
Tot Ion:117 Resp: 53313
Ion Ratio Lower Upper
117 100
119 6.2 77.2 115.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 2.453 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN053862.D
Acq: 19 Feb 2019 12:01

Tgt Ion: 43 Resp: 26882
Ion Ratio Lower Upper
43 100
61 15.7 23.9 35.9#
87 11.2 11.0 16.6





#48

Methvl methacrylate

Concen: 1.666 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampled :

M-14-D

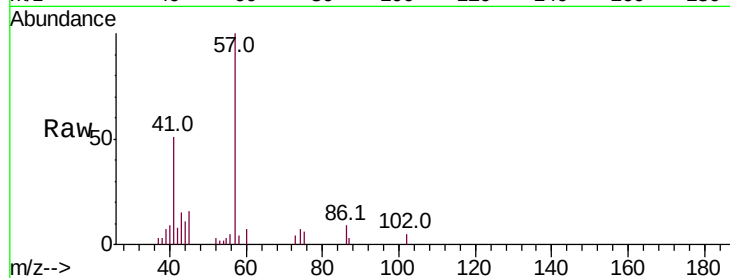
Tot Ion: 41 Resp: 8711

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

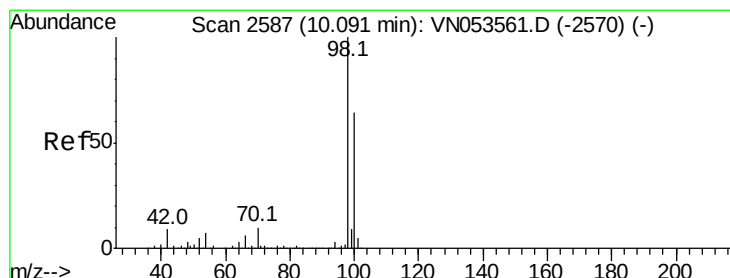
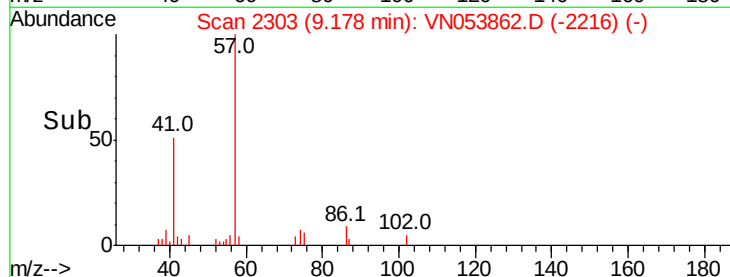
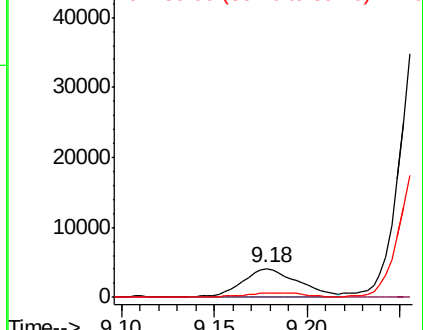
39 0.0 40.0 60.0#



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



#50

Toluene-d8

Concen: 52.315 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053862.D

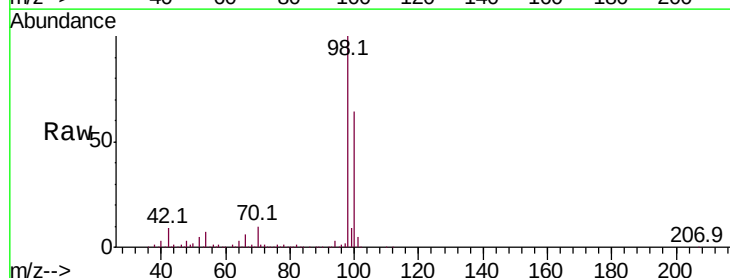
Acq: 19 Feb 2019 12:01

Tgt Ion: 98 Resp: 1398738

Ion Ratio Lower Upper

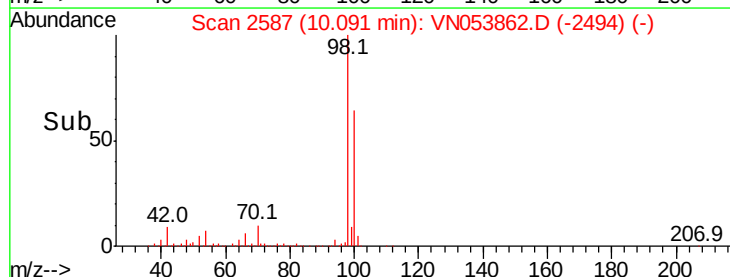
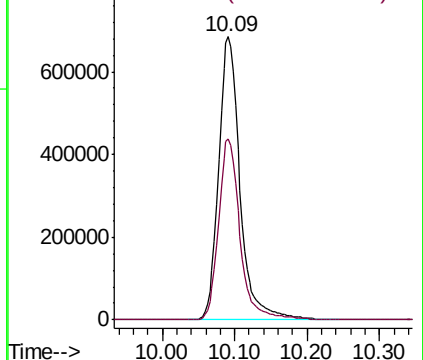
98 100

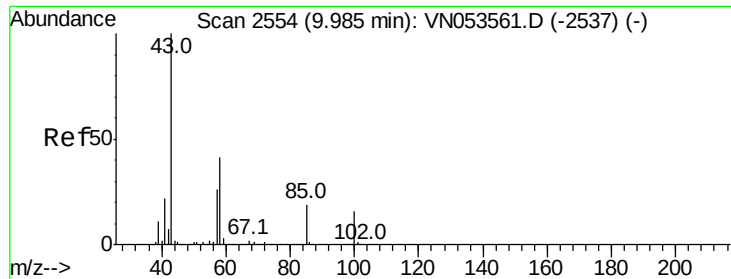
100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

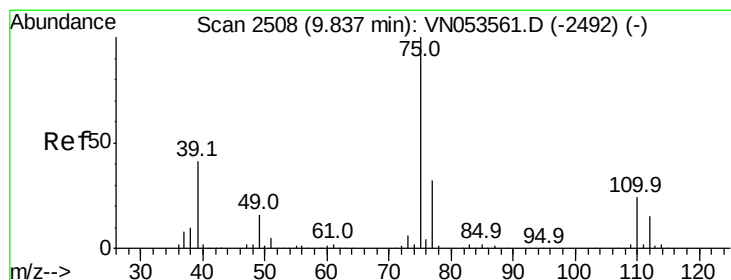
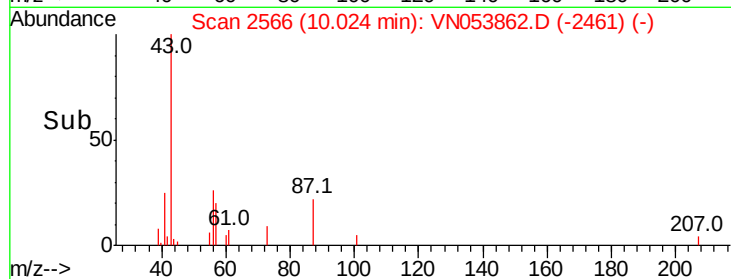
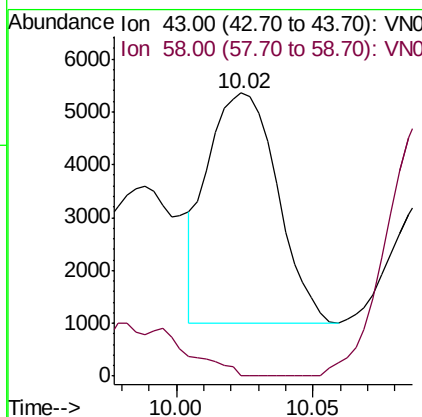
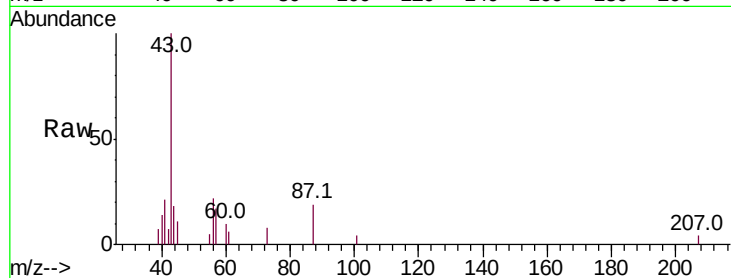




#51
 4-Methyl-2-Pentanone
 Concen: 1.437 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN053862.D
 Acq: 19 Feb 2019 12:01

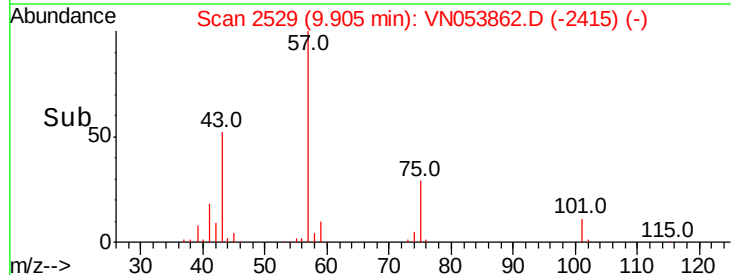
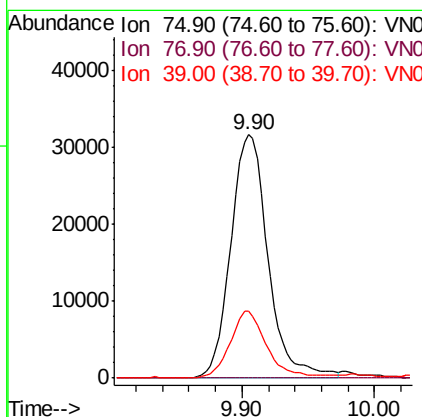
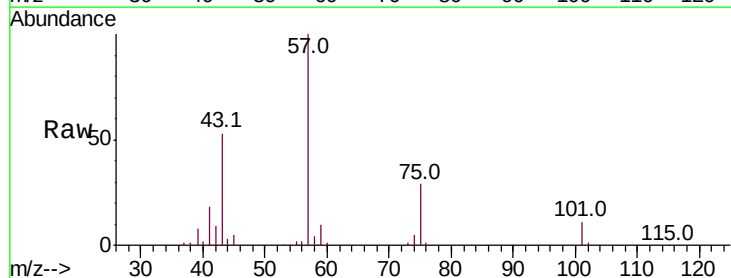
Instrument :
 MSVOA_N
 ClientSampled :
 M-14-D

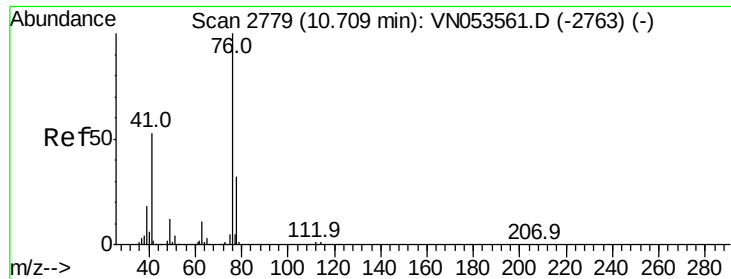
Tot Ion: 43 Resp: 7737
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.8 49.2#



#54
 cis-1,3-Dichloropropene
 Concen: 5.213 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053862.D
 Acq: 19 Feb 2019 12:01

Tgt Ion: 75 Resp: 62120
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.6#
 39 27.6 33.4 50.0#





#57

1,3-Dichloropropane

Concen: 1.084 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampled :

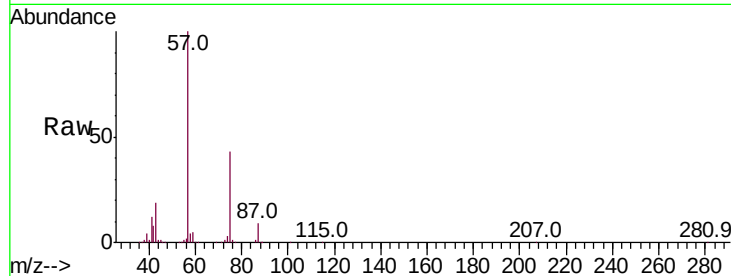
M-14-D

Tot Ion: 76 Resp: 12412

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.77

8000

6000

4000

2000

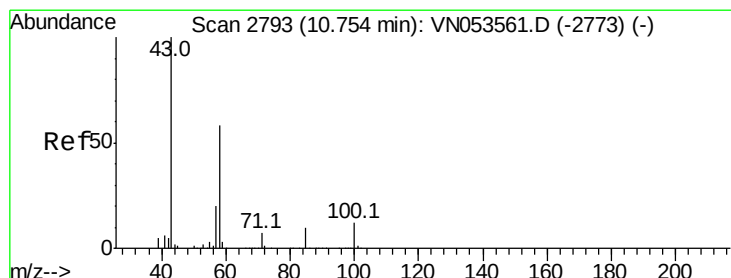
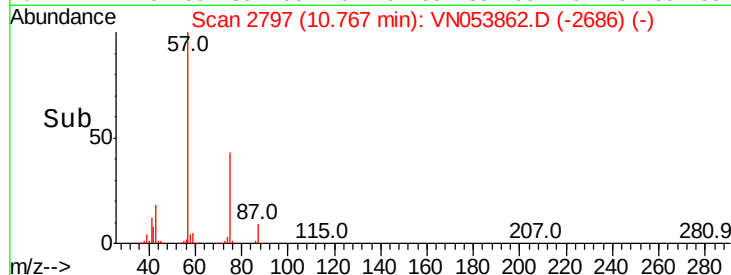
0

Time-->

10.70

10.75

10.80



#59

2-Hexanone

Concen: 42.731 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053862.D

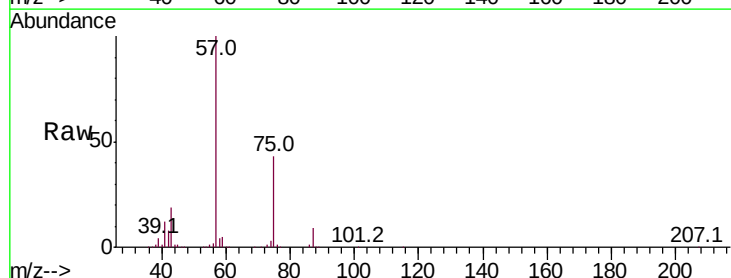
Acq: 19 Feb 2019 12:01

Tgt Ion: 43 Resp: 156190

Ion Ratio Lower Upper

43 100

58 20.9 28.6 85.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

100000

80000

60000

40000

20000

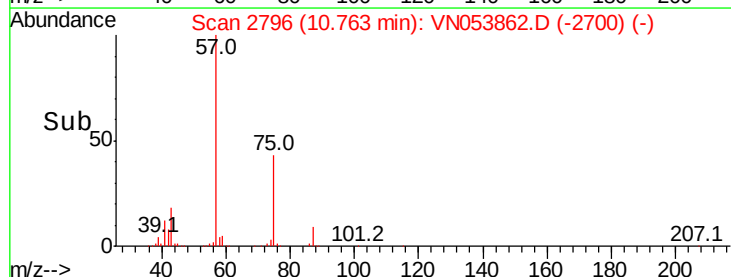
0

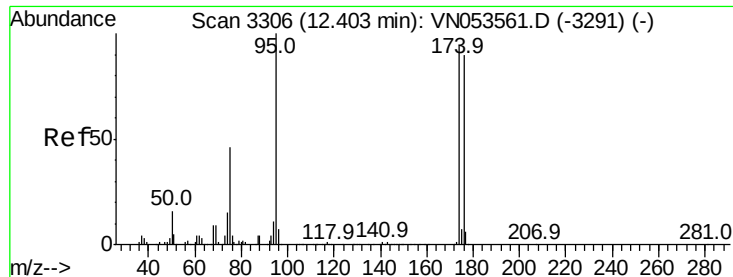
Time-->

10.70

10.75

10.80





#62

4-Bromofluorobenzene

Concen: 55.093 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampleId :

M-14-D

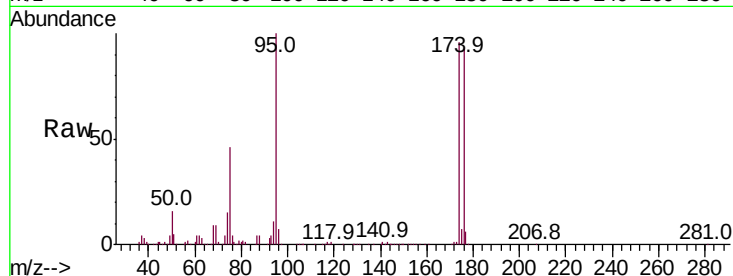
Tot Ion: 95 Resp: 491274

Ion Ratio Lower Upper

95 100

174 95.9 0.0 183.2

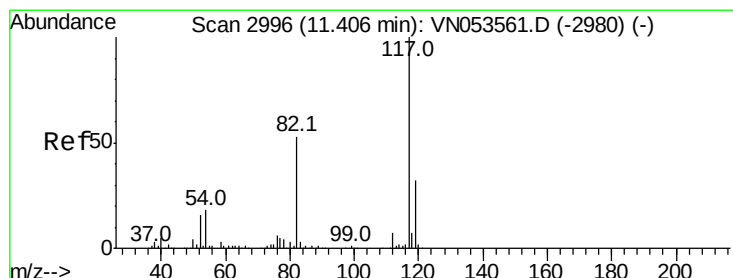
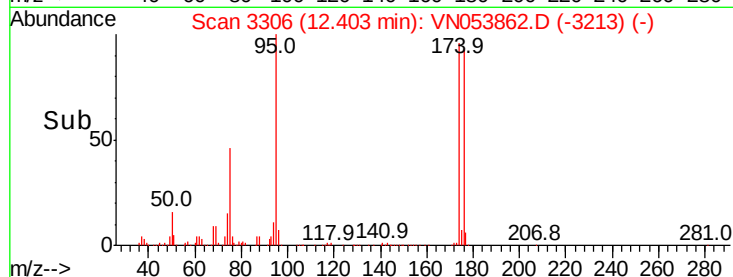
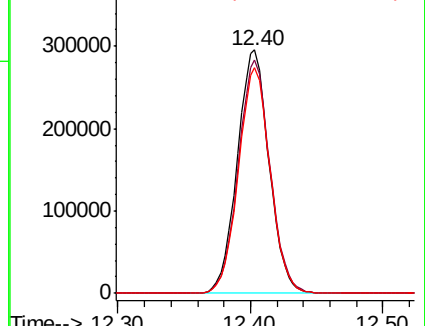
176 92.5 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053862.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053862.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053862.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

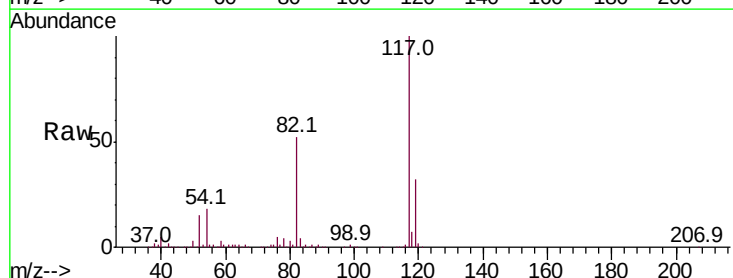
Tgt Ion: 117 Resp: 1110058

Ion Ratio Lower Upper

117 100

82 51.8 42.9 64.3

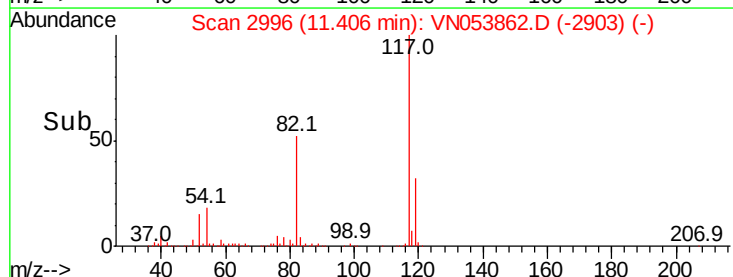
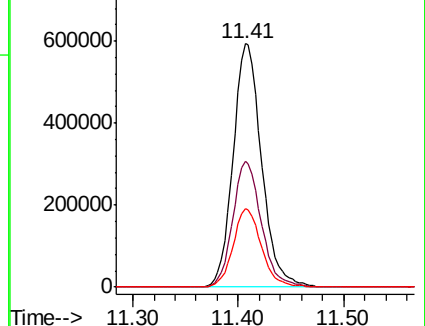
119 32.1 26.0 39.0

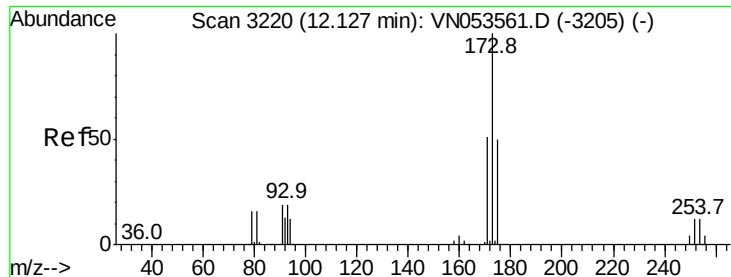


Abundance Ion 116.90 (116.60 to 117.60): VN053862.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053862.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053862.D (-2980) (-)





#71

Bromoform

Concen: 0.540 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampled :

M-14-D

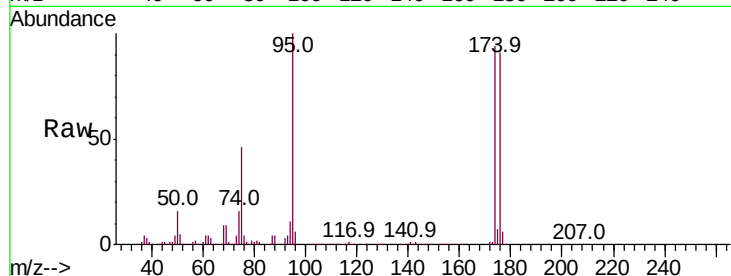
Tot Ion:173 Resp: 3046

Ion Ratio Lower Upper

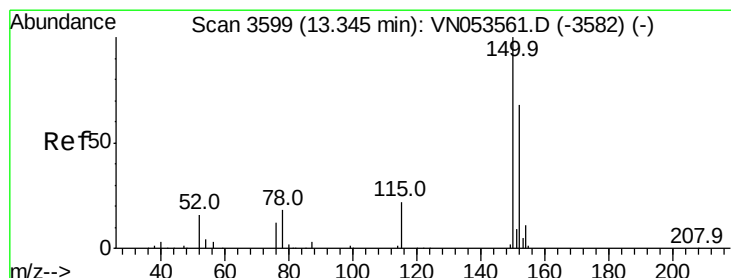
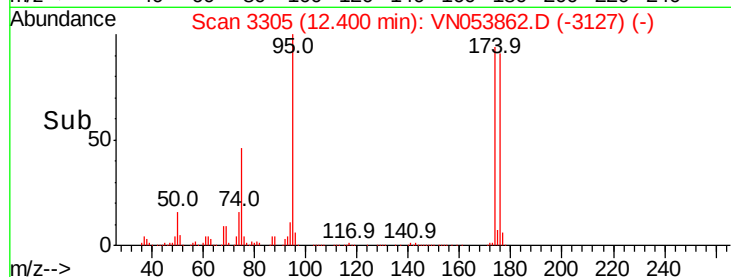
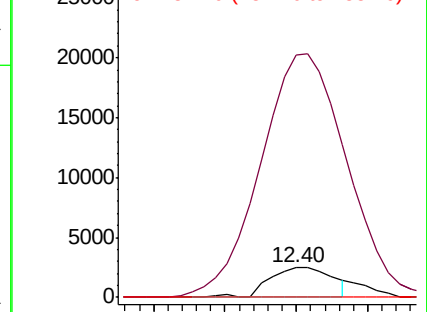
173 100

175 964.2 24.6 74.0#

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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

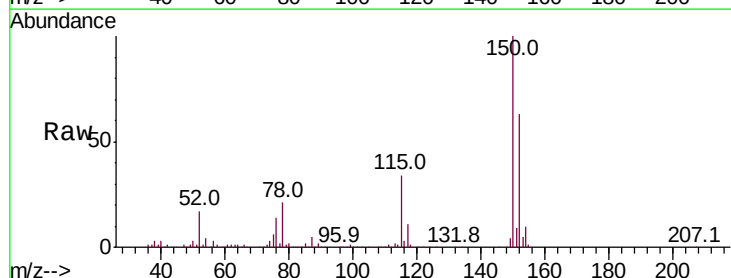
Tgt Ion:152 Resp: 445546

Ion Ratio Lower Upper

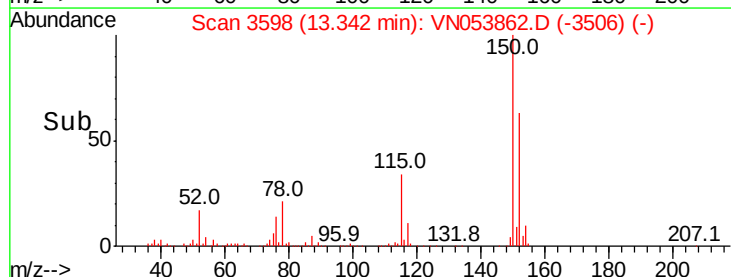
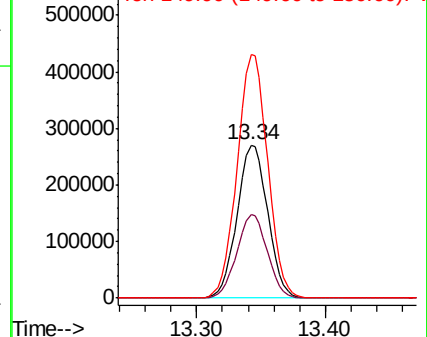
152 100

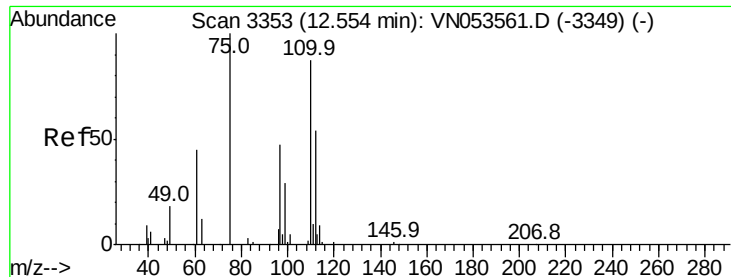
115 54.5 27.8 83.4

150 158.8 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: 39.578 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampled :

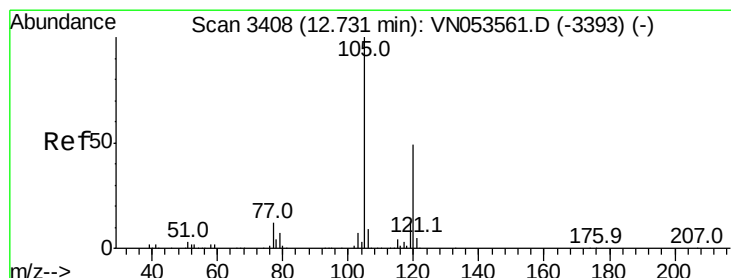
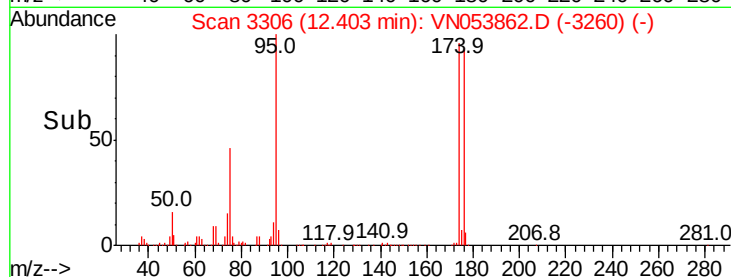
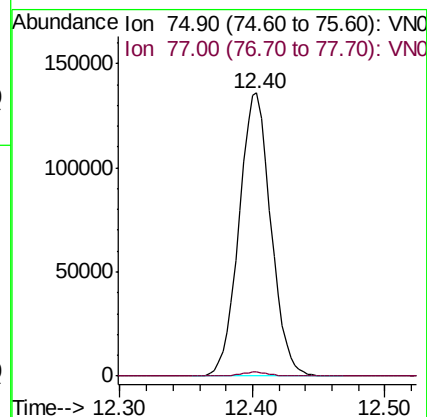
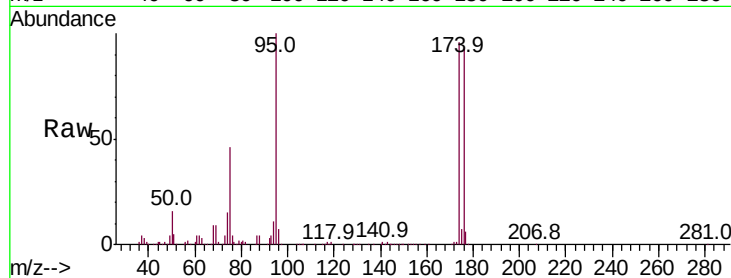
M-14-D

Tot Ion: 75 Resp: 226495

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.324 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053862.D

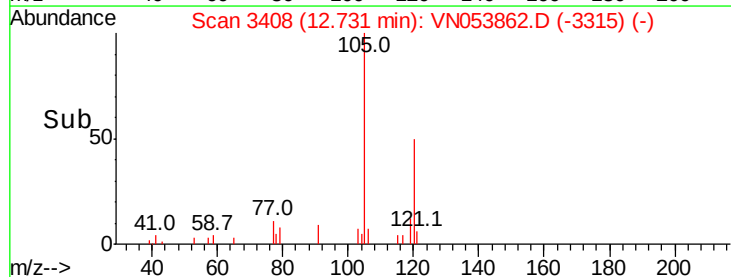
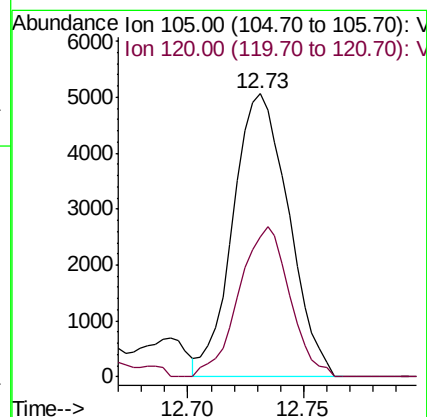
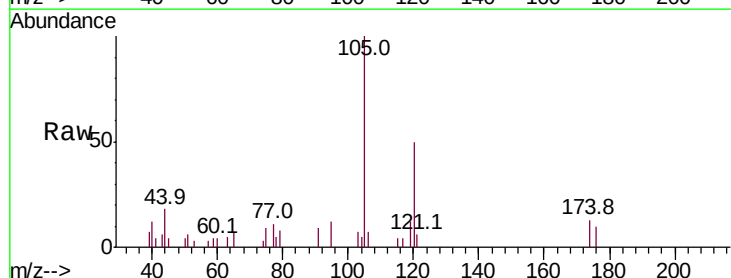
Acq: 19 Feb 2019 12:01

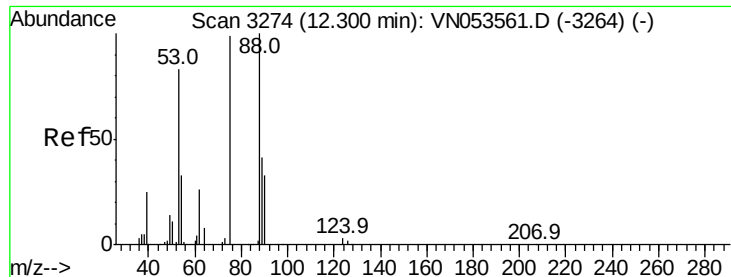
Tgt Ion: 105 Resp: 8426

Ion Ratio Lower Upper

105 100

120 48.3 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 111.290 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

Instrument :

MSVOA_N

ClientSampled :

M-14-D

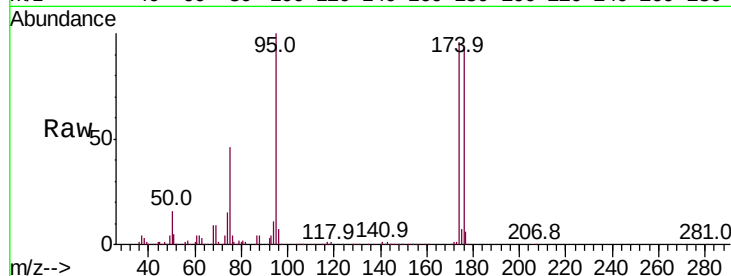
Tot Ion: 75 Resp: 226495

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

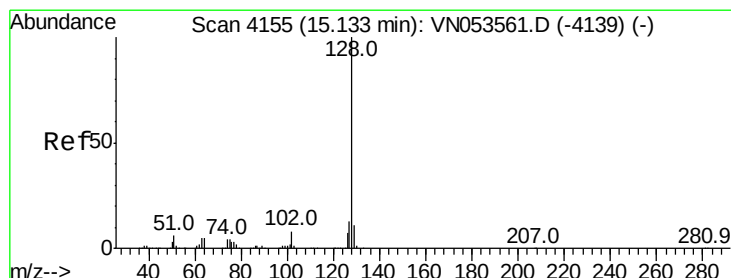
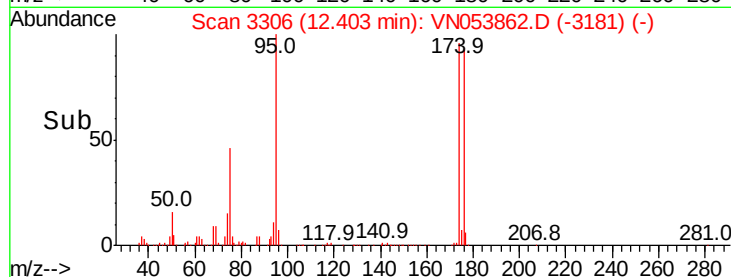
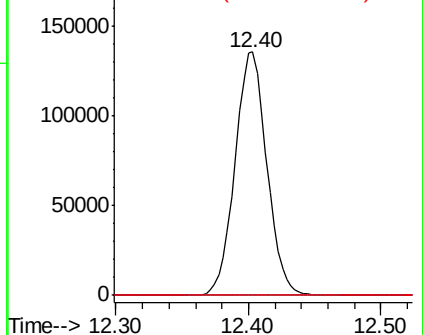
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 1.933 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053862.D

Acq: 19 Feb 2019 12:01

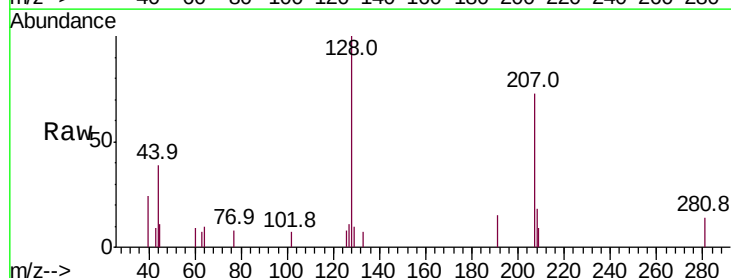
Tgt Ion:128 Resp: 3987

Ion Ratio Lower Upper

128 100

127 10.9 10.3 15.5

129 7.2 8.6 13.0#



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

