

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052134.D
 Acq On : 2 Nov 2018 17:31
 Operator : MD\SY
 Sample : J5741-54
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-13

Quant Time: Nov 02 23:15:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	270458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	513673	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	490772	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	203075	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	236243	54.43	ug/l	0.00
Spiked Amount			Recovery	=	108.86%	
35) Dibromofluoromethane	7.60	113	195144	60.73	ug/l	0.00
Spiked Amount			Recovery	=	121.46%	
50) Toluene-d8	10.09	98	767568	59.76	ug/l	0.00
Spiked Amount			Recovery	=	119.52%	
62) 4-Bromofluorobenzene	12.40	95	268305	56.90	ug/l	0.00
Spiked Amount			Recovery	=	113.80%	

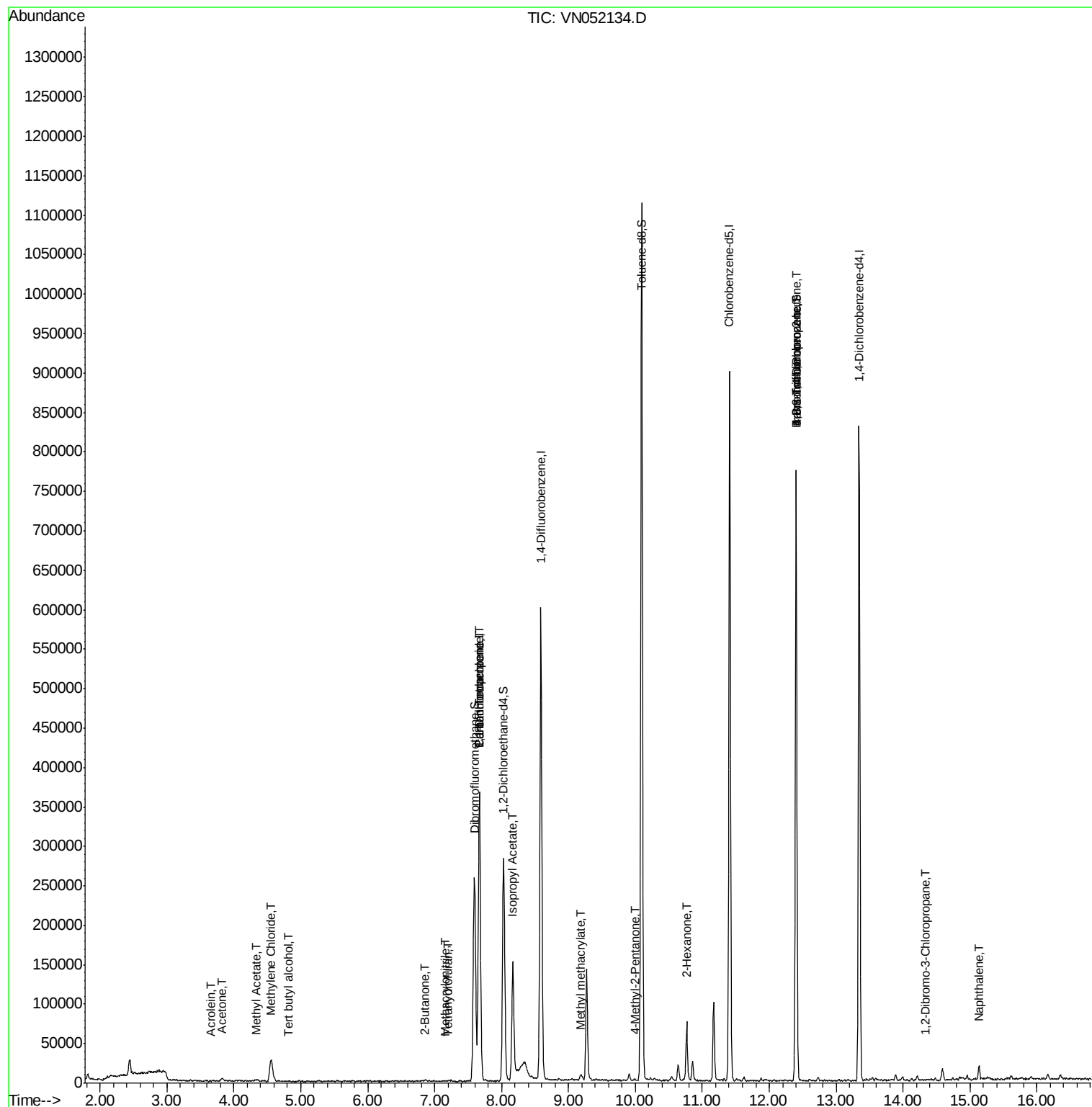
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.82	59	147	0.676	ug/l #	76
13) Acrolein	3.64	56	29	24.158	ug/l #	1
16) Acetone	3.83	43	6917	7.467	ug/l	89
18) Methyl Acetate	4.34	43	2407	0.816	ug/l	95
20) Methylene Chloride	4.56	84	19886	5.633	ug/l	91
25) 2-Butanone	6.84	43	1120	0.771	ug/l	100
29) Tetrahydrofuran	7.21	42	235	0.243	ug/l #	58
31) Cyclohexane	7.67	56	6726	Below Cal	#	5
36) 1,1-Dichloropropene	7.67	75	24354	4.663	ug/l #	47
38) Carbon Tetrachloride	7.66	117	29192	6.482	ug/l #	16
41) Methacrylonitrile	7.16	41	228	0.268	ug/l #	23
43) Isopropyl Acetate	8.17	43	185054	29.761	ug/l	97
48) Methyl methacrylate	9.18	41	5339	1.694	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	1426	0.422	ug/l #	63
59) 2-Hexanone	10.76	43	10667	4.429	ug/l #	62
71) Bromoform	12.39	173	438	2.379	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	138457	37.246	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	138457	123.625	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.34	75	60	1.017	ug/l #	11
95) Naphthalene	15.13	128	13281	2.282	ug/l #	94

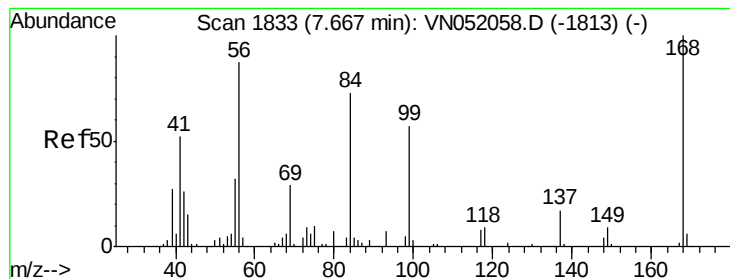
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052134.D

Acq: 2 Nov 2018 17:31

Instrument :

MSVOA_N

ClientSampled :

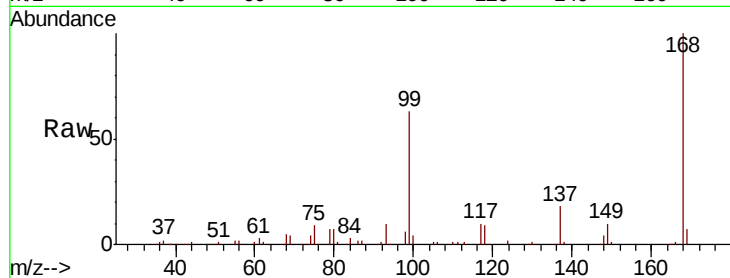
TP-13

Tot Ion:168 Resp: 270458

Ion Ratio Lower Upper

168 100

99 62.6 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

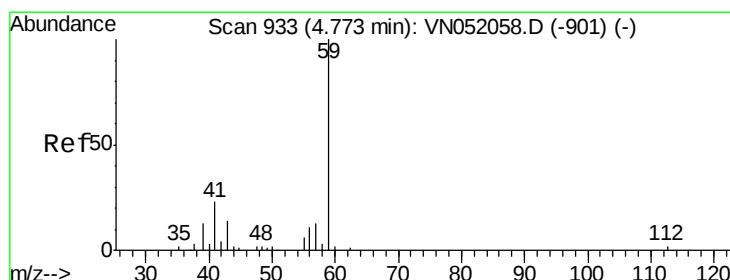
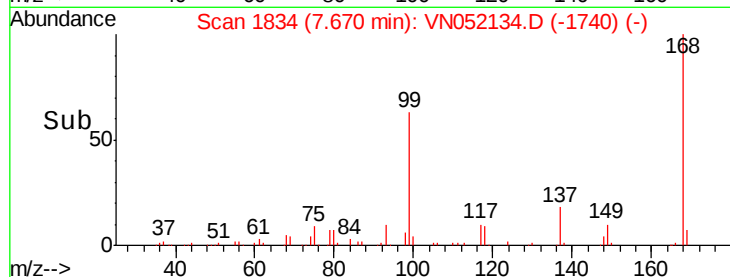
7.67

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.676 ug/l

RT: 4.82 min Scan# 946

Delta R.T. 0.04 min

Lab File: VN052134.D

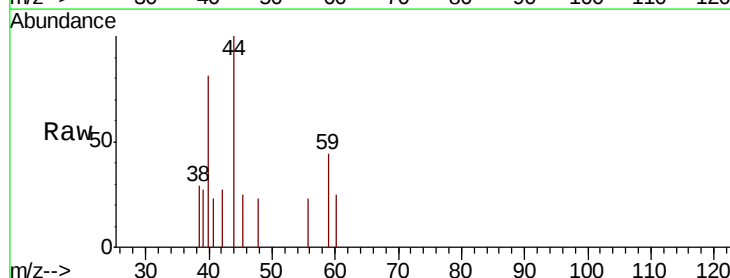
Acq: 2 Nov 2018 17:31

Tgt Ion: 59 Resp: 147

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.82

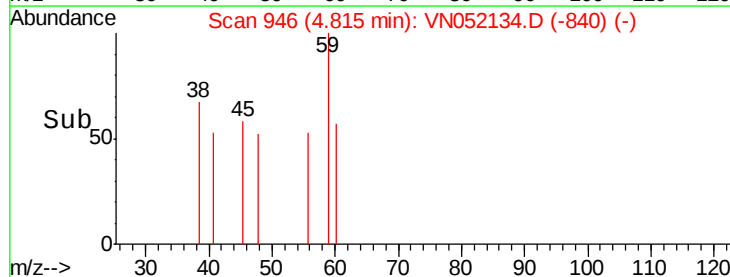
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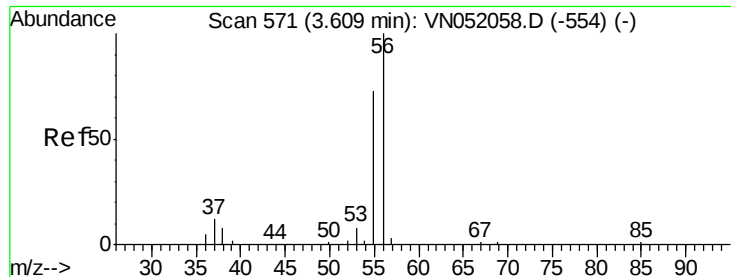
200

100

0

Time-->





#13

Acrolein

Concen: 24.158 ug/l

RT: 3.64 min Scan# 581

Delta R.T. 0.03 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

Instrument :

MSVOA_N

ClientSampled :

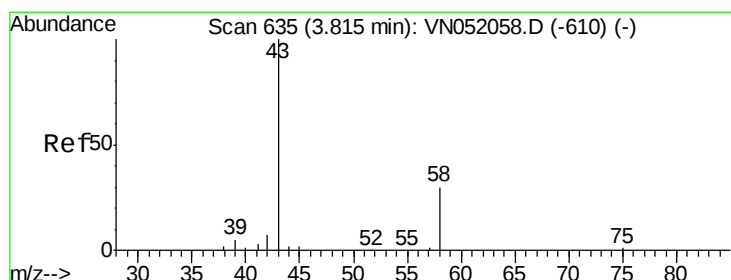
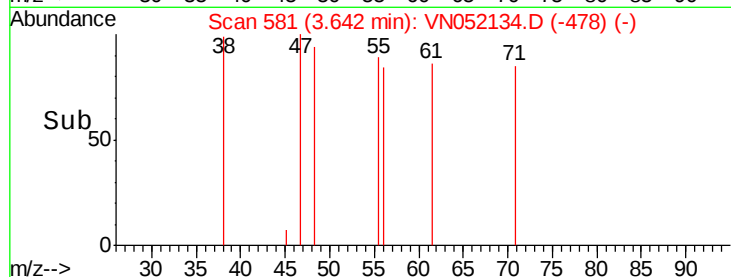
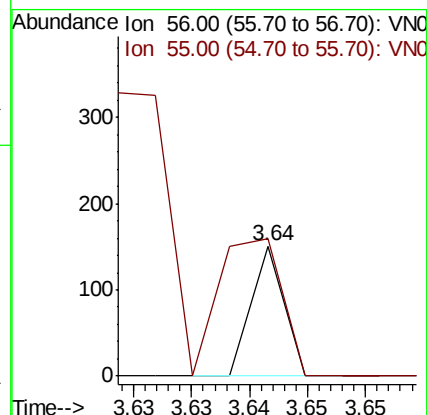
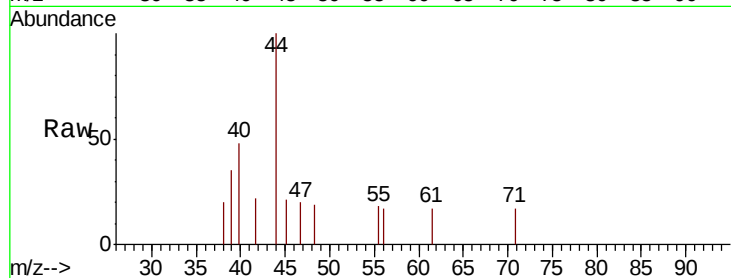
TP-13

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 641.4 59.9 89.9#



#16

Acetone

Concen: 7.467 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052134.D

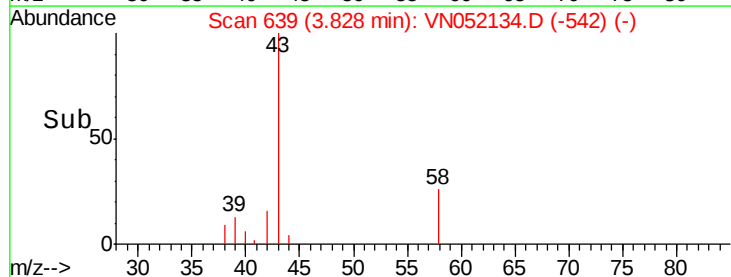
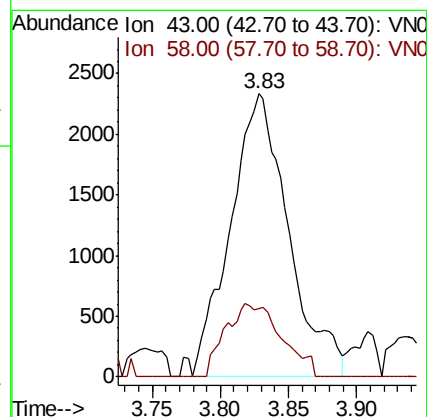
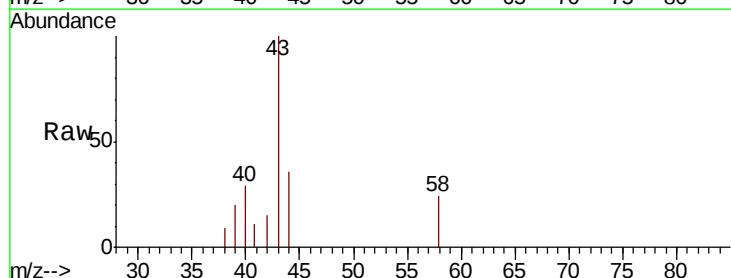
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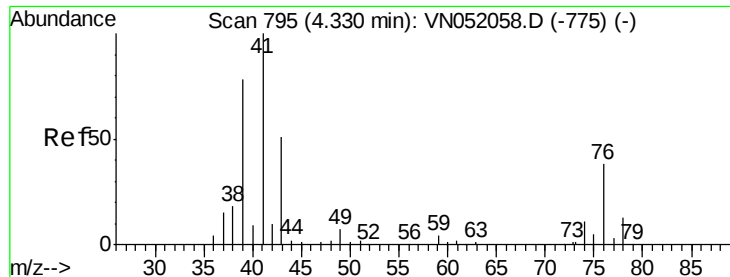
Tgt Ion: 43 Resp: 6917

Ion Ratio Lower Upper

43 100

58 24.3 24.2 36.2

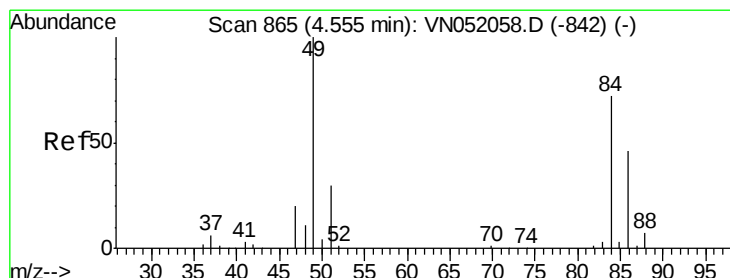
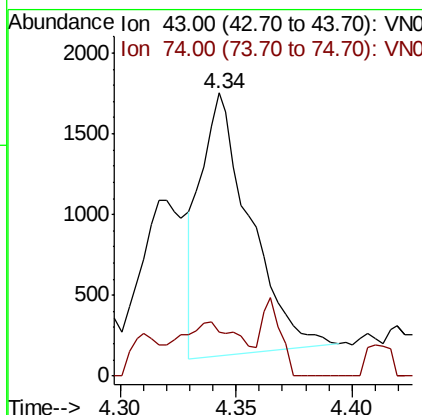
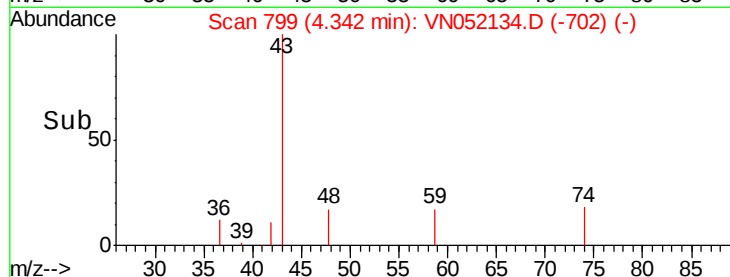
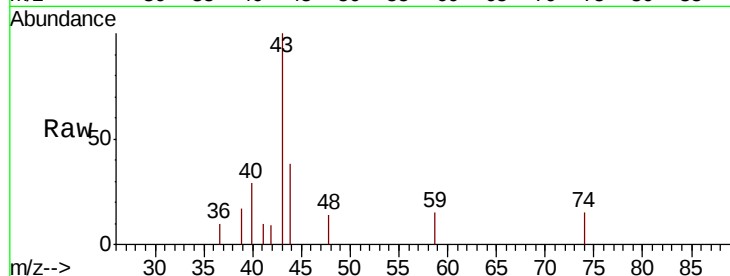




#18
Methyl Acetate
Concen: 0.816 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

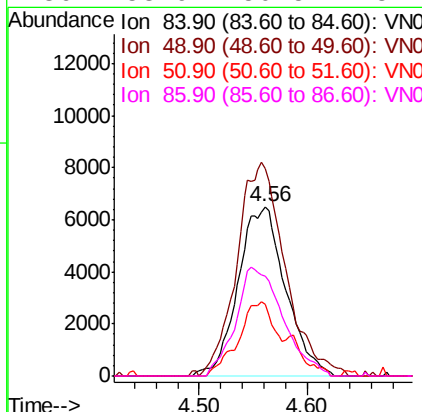
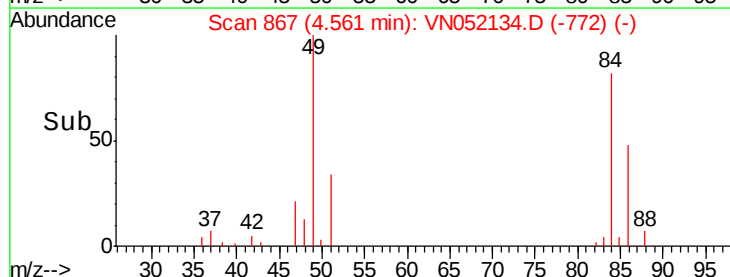
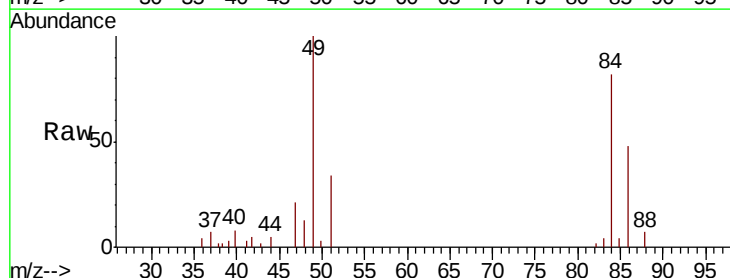
Instrument :
MSVOA_N
ClientSampled :
TP-13

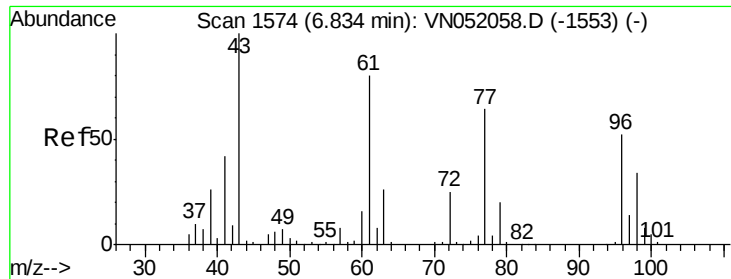
Tot Ion: 43 Resp: 2407
Ion Ratio Lower Upper
43 100
74 24.8 17.9 26.9



#20
Methylene Chloride
Concen: 5.633 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

Tgt Ion: 84 Resp: 19886
Ion Ratio Lower Upper
84 100
49 122.5 110.6 165.8
51 42.3 33.7 50.5
86 58.9 50.5 75.7

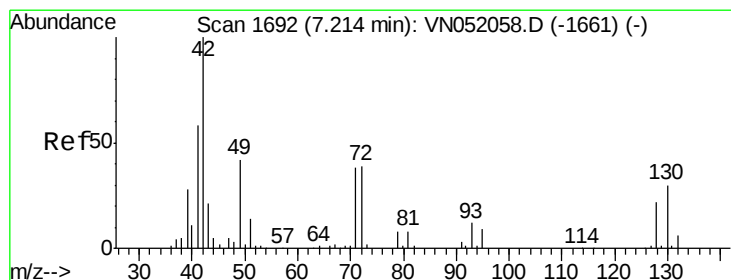
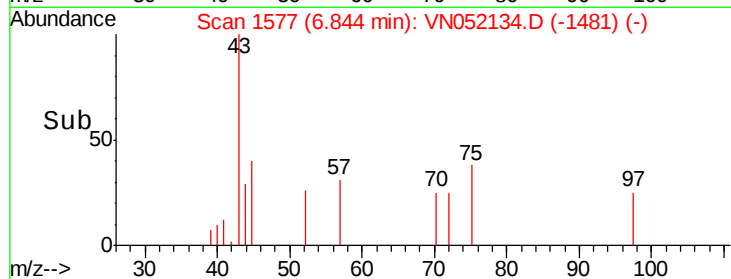
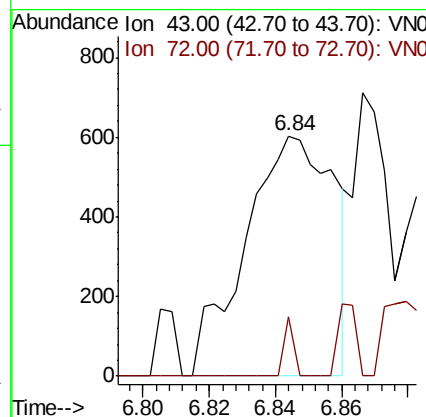
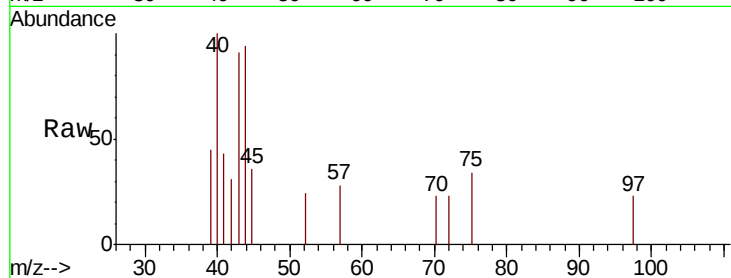




#25
2-Butanone
Concen: 0.771 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

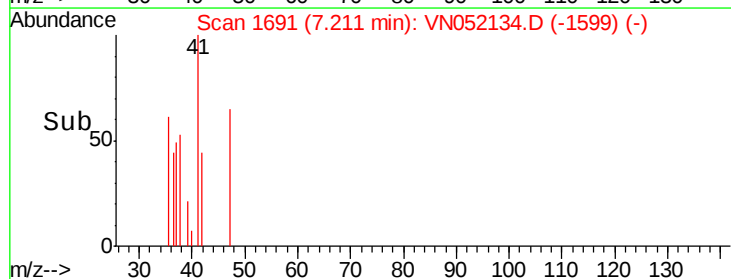
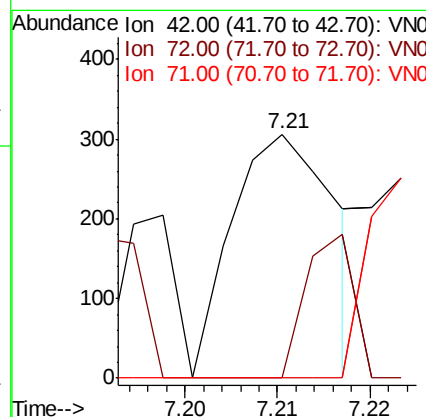
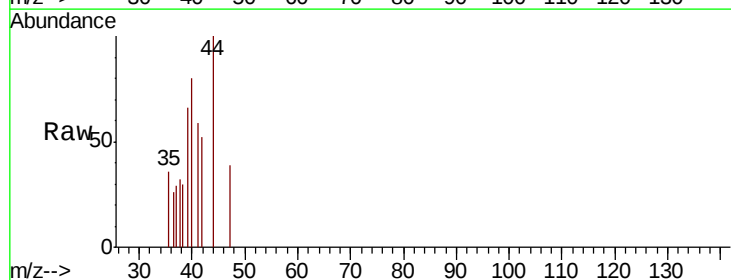
Instrument :
MSVOA_N
ClientSampled :
TP-13

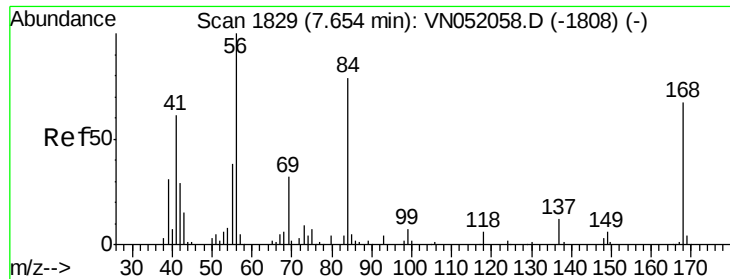
Tot Ion: 43 Resp: 1120
Ion Ratio Lower Upper
43 100
72 25.0 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.243 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

Tgt Ion: 42 Resp: 235
Ion Ratio Lower Upper
42 100
72 27.2 32.5 48.7#
71 0.0 30.6 46.0#

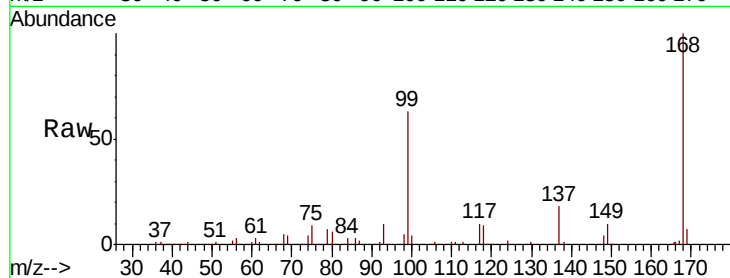




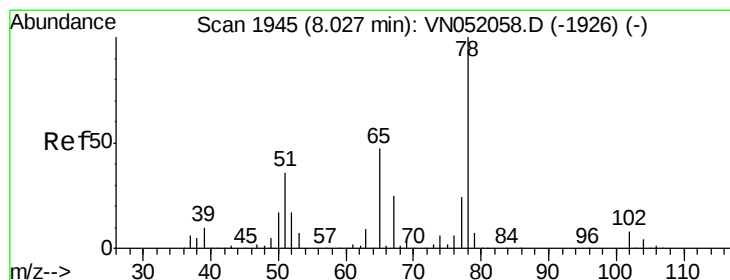
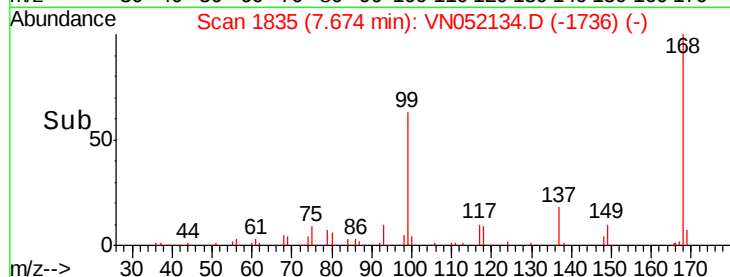
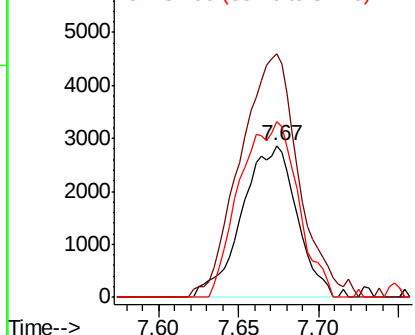
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1835
Delta R.T. 0.02 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

Instrument :
MSVOA_N
ClientSampleId :
TP-13

Tot Ion: 56 Resp: 6726
Ion Ratio Lower Upper
56 100
69 160.4 25.8 38.6#
84 115.5 63.5 95.3#

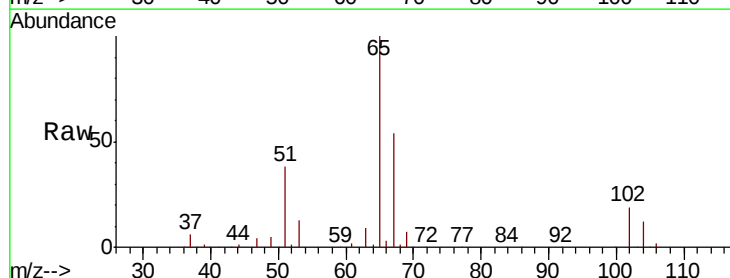


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

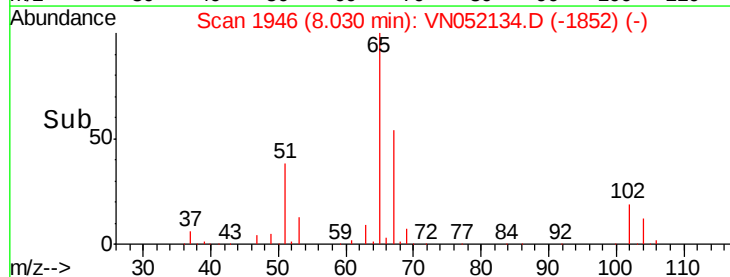
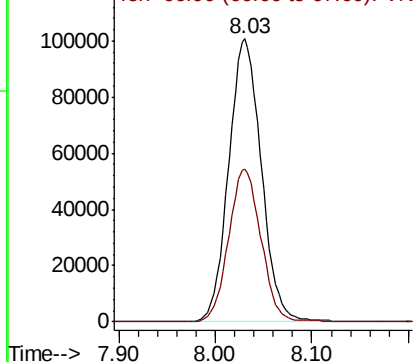


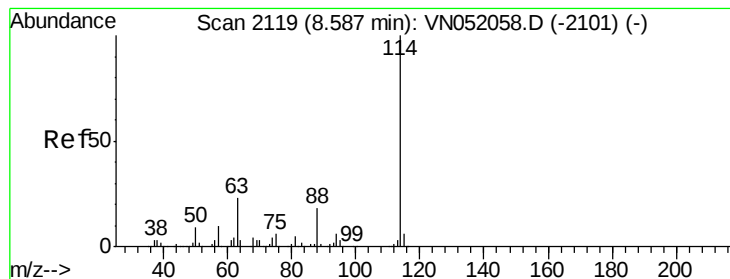
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

Tgt Ion: 65 Resp: 236243
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

TP-13

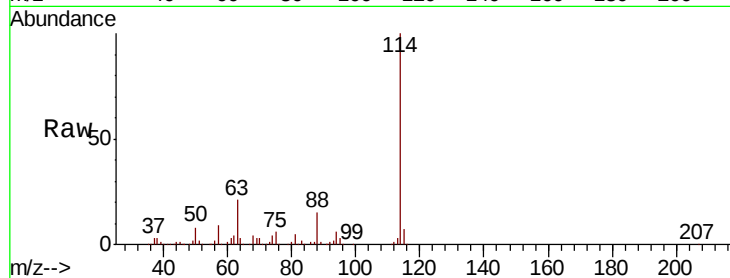
Tot Ion:114 Resp: 513673

Ion Ratio Lower Upper

114 100

63 21.3 0.0 46.0

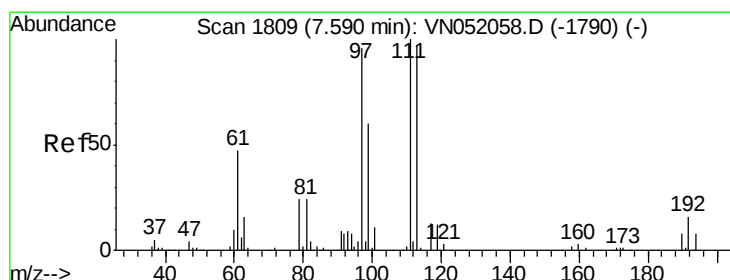
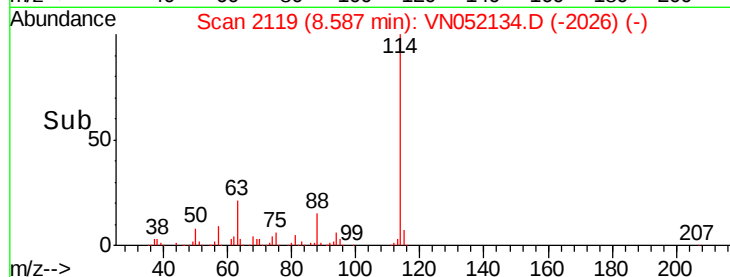
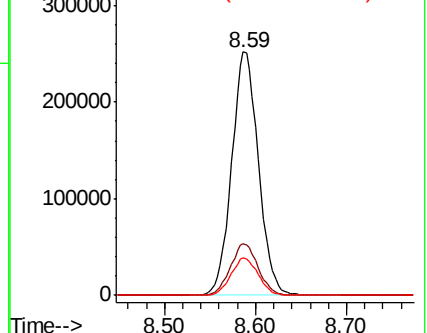
88 15.5 0.0 35.4



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: 50.000 ug/l

RT: 7.60 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

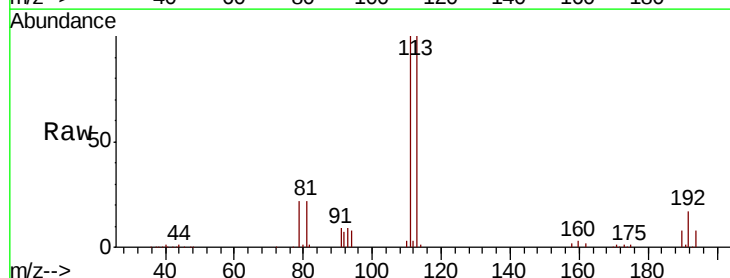
Tgt Ion:113 Resp: 195144

Ion Ratio Lower Upper

113 100

111 101.9 83.1 124.7

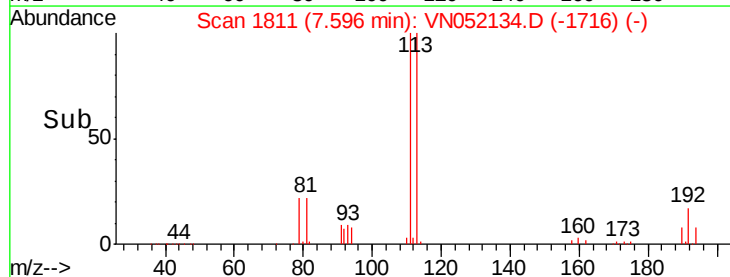
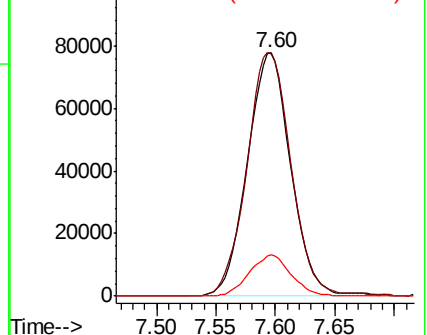
192 16.4 12.7 19.1

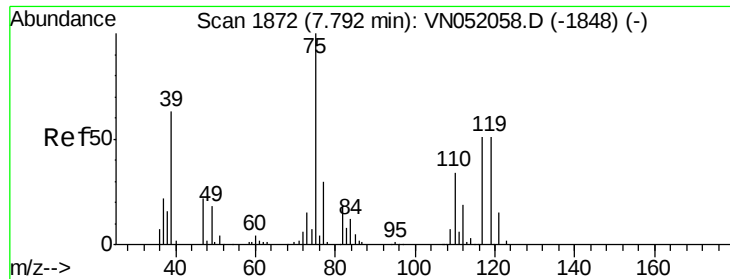


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

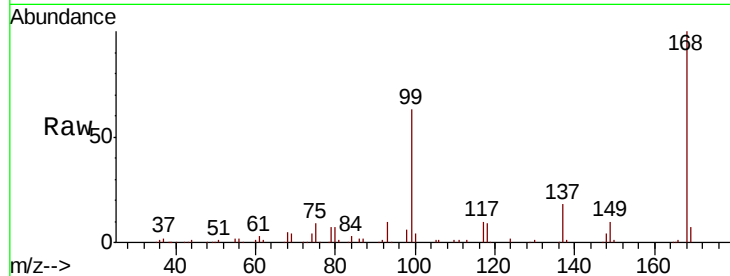




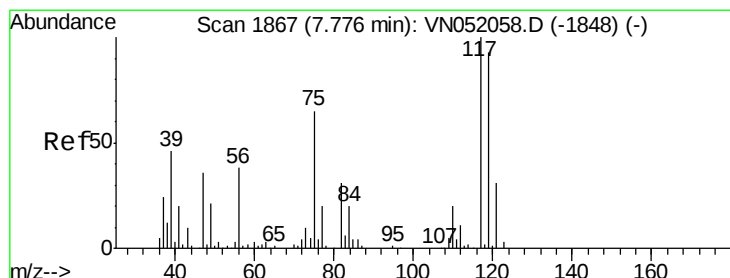
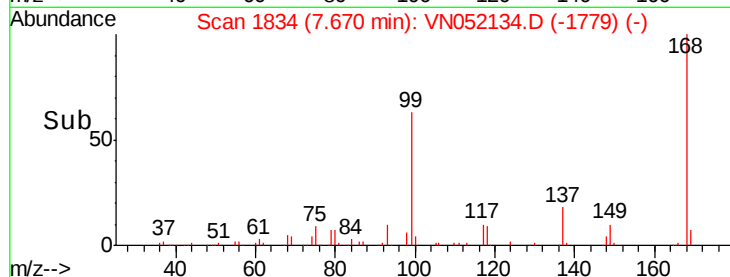
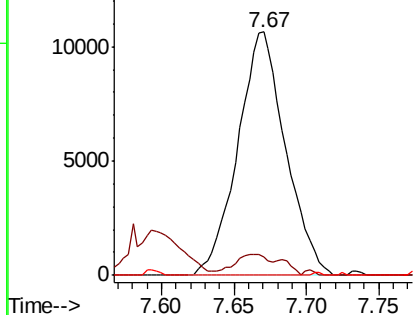
#36
 1,1-Dichloropropene
 Concen: 4.663 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052134.D
 Acq: 2 Nov 2018 17:31

Instrument :
 MSVOA_N
 ClientSampled :
 TP-13

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.5	16.0	48.0#
77	0.0	24.5	36.7#

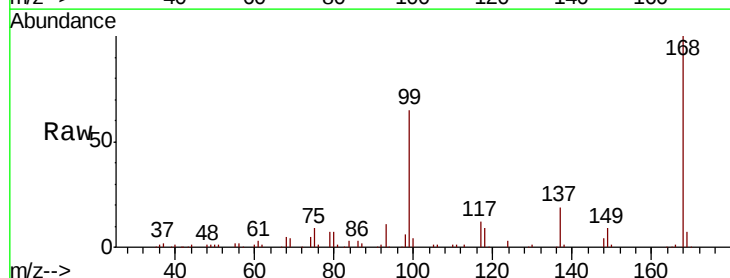


Abundance Ion 74.90 (74.60 to 75.60): VN052134.D (-1779) (-)
 Ion 109.90 (109.60 to 110.60): VN052134.D (-1779) (-)
 Ion 76.90 (76.60 to 77.60): VN052134.D (-1779) (-)

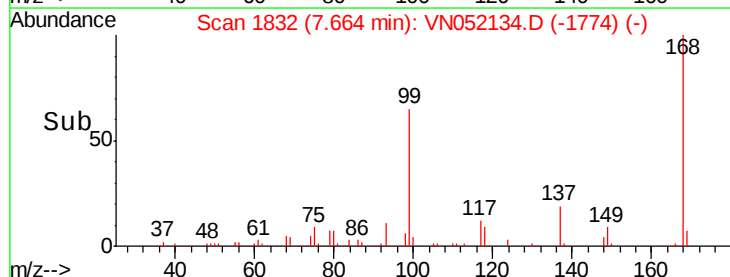
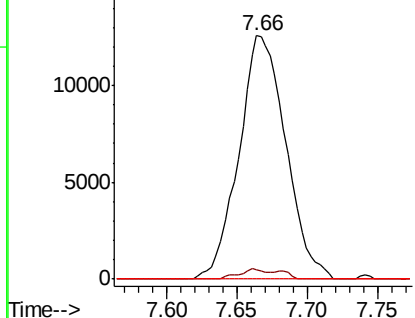


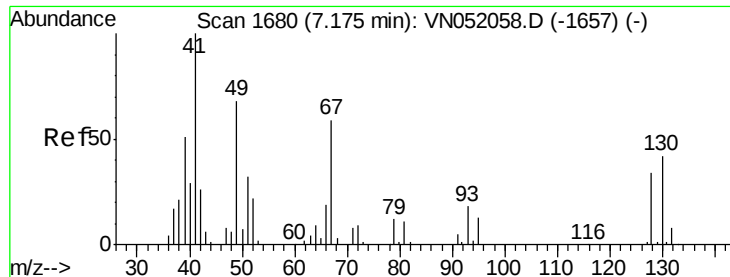
#38
 Carbon Tetrachloride
 Concen: 6.482 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN052134.D
 Acq: 2 Nov 2018 17:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	74.8	112.2#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN052134.D (-1774) (-)
 Ion 118.80 (118.50 to 119.50): VN052134.D (-1774) (-)
 Ion 120.80 (120.50 to 121.50): VN052134.D (-1774) (-)

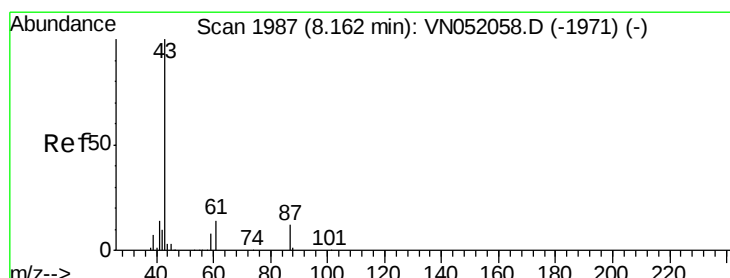
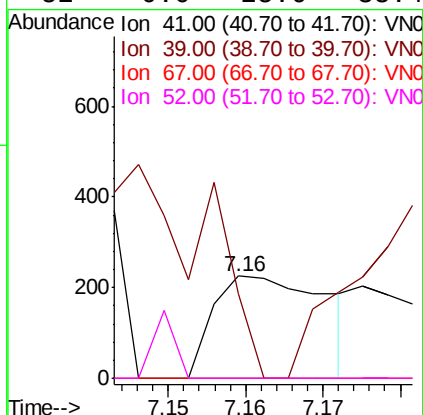
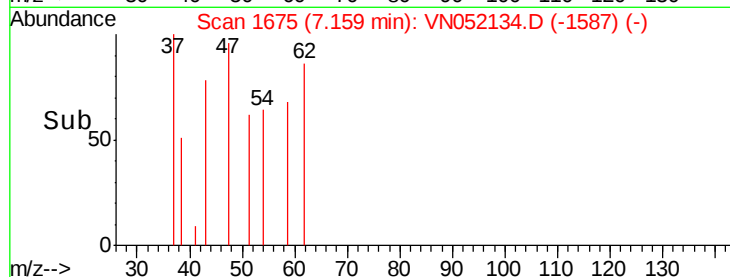
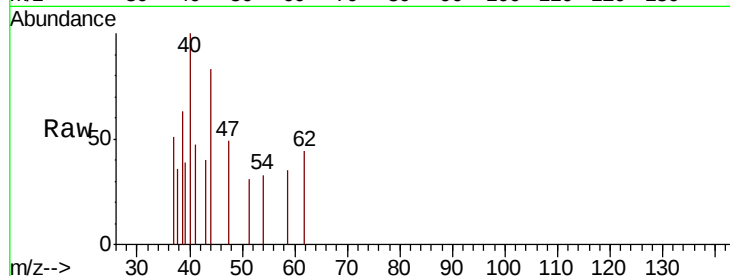




#41
Methacrylonitrile
Concen: 0.268 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.02 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

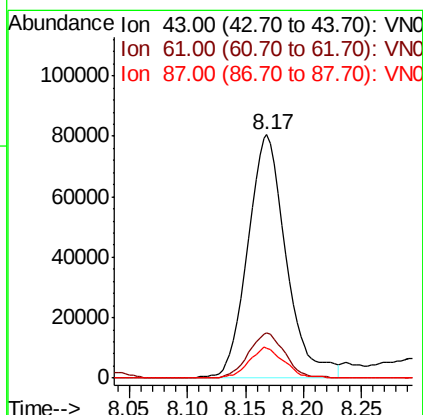
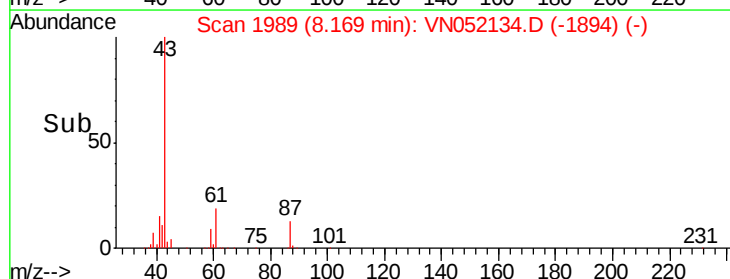
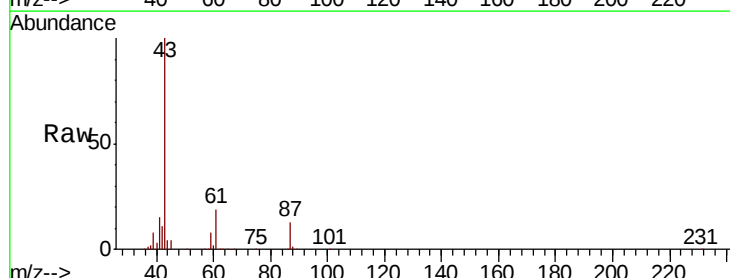
Instrument :
MSVOA_N
ClientSampleId :
TP-13

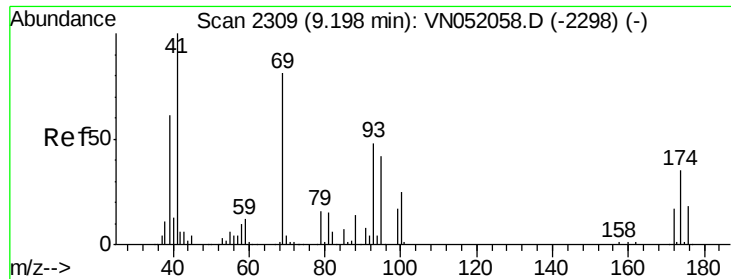
Tot Ion: 41 Resp: 228
Ion Ratio Lower Upper
41 100
39 0.0 33.2 49.8#
67 0.0 63.5 95.3#
52 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 29.761 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

Tgt Ion: 43 Resp: 185054
Ion Ratio Lower Upper
43 100
61 17.6 15.4 23.0
87 11.7 9.8 14.8

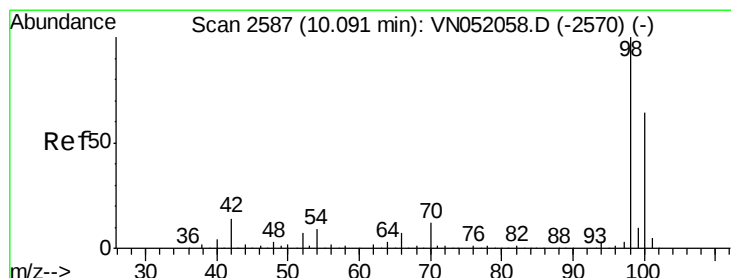
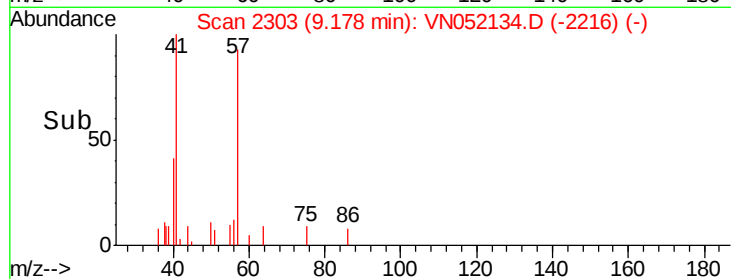
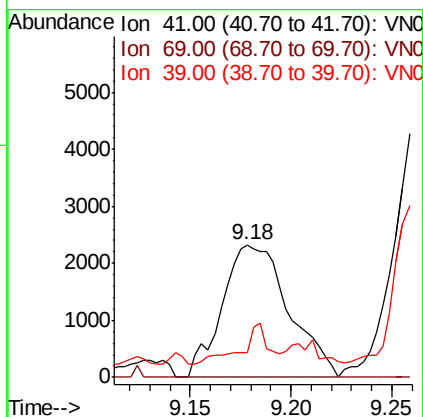
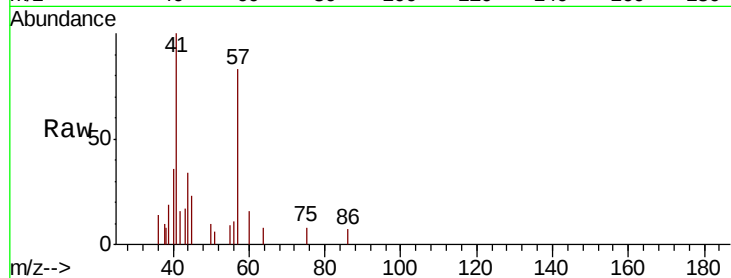




#48
Methvl methacrylate
Concen: 1.694 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

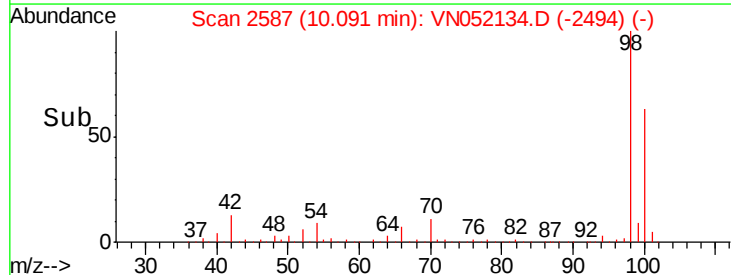
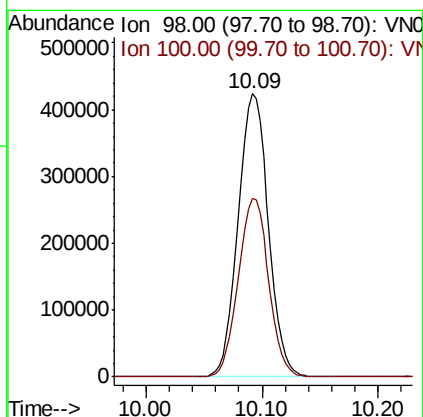
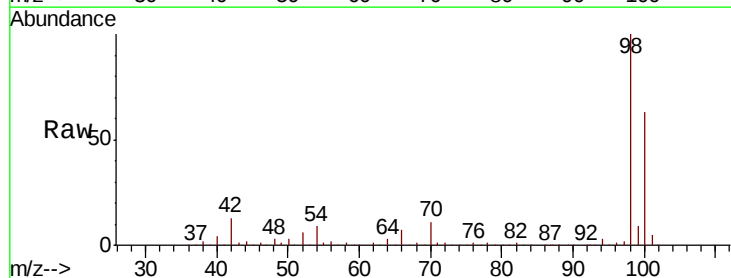
Instrument :
MSVOA_N
ClientSampled :
TP-13

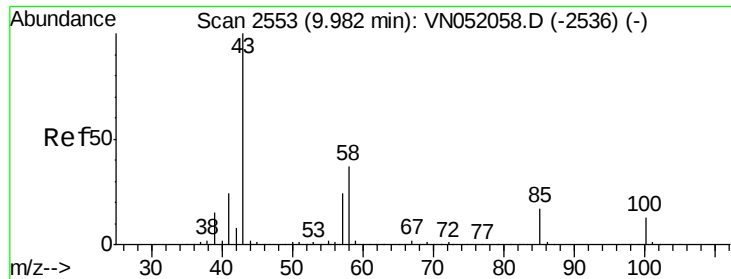
Tot Ion: 41 Resp: 5339
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 12.5 50.5 75.7#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052134.D
Acq: 2 Nov 2018 17:31

Tgt Ion: 98 Resp: 767568
Ion Ratio Lower Upper
98 100
100 63.4 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 0.422 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

Instrument :

MSVOA_N

ClientSampled :

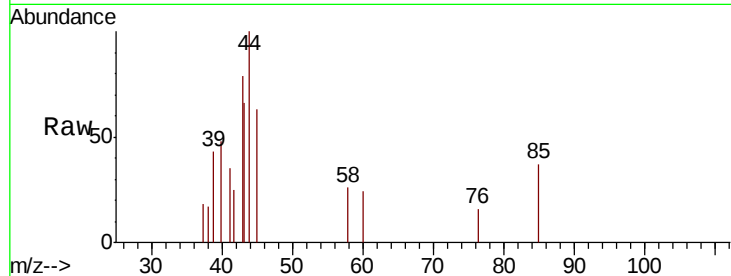
TP-13

Tot Ion: 43 Resp: 1426

Ion Ratio Lower Upper

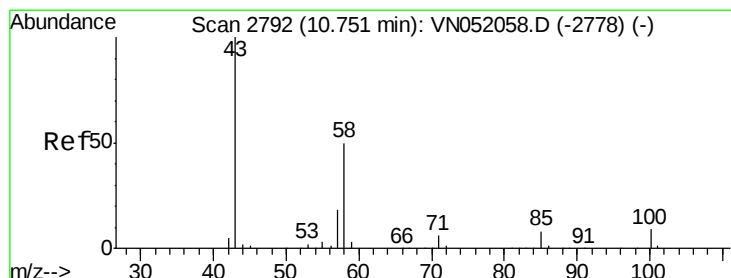
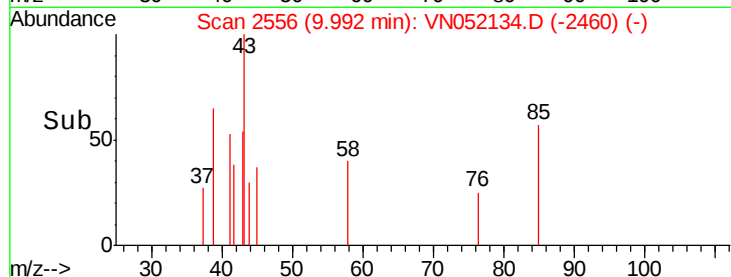
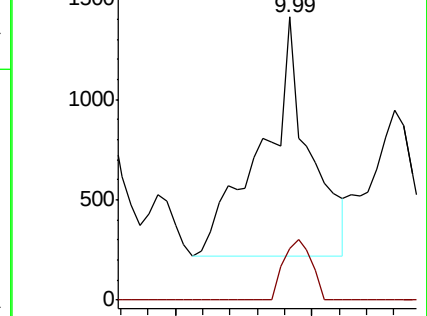
43 100

58 15.3 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 4.429 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052134.D

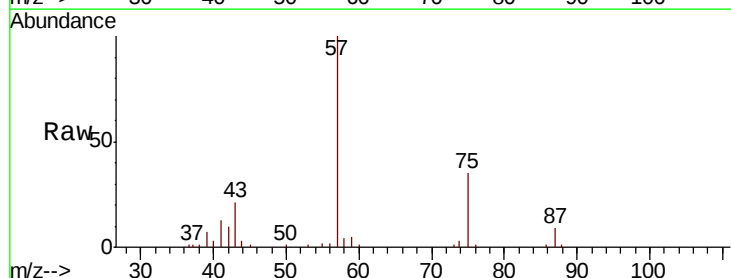
Acq: 2 Nov 2018 17:31

Tgt Ion: 43 Resp: 10667

Ion Ratio Lower Upper

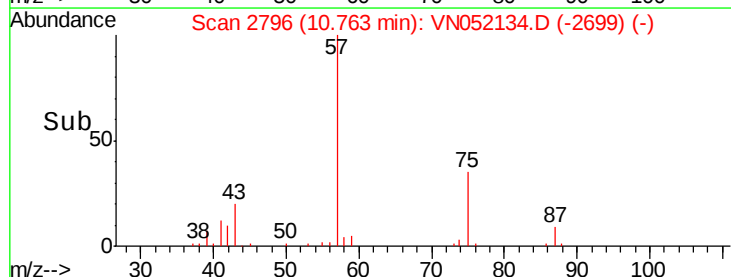
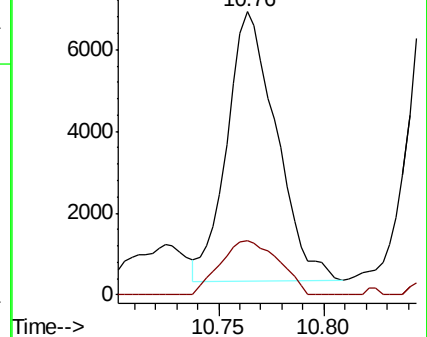
43 100

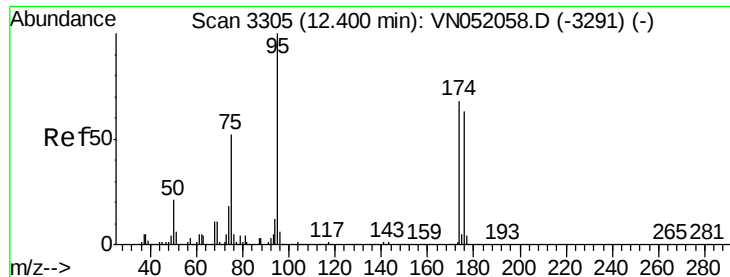
58 24.0 25.2 75.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

Instrument :

MSVOA_N

ClientSampled :

TP-13

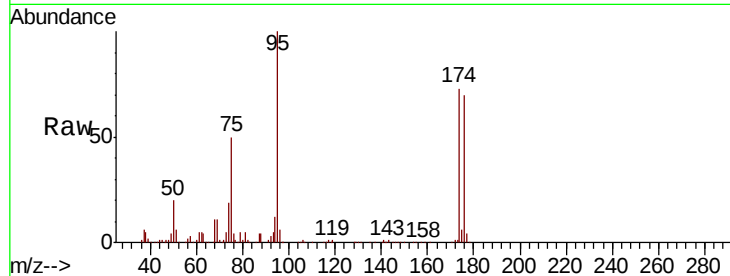
Tot Ion: 95 Resp: 268305

Ion Ratio Lower Upper

95 100

174 72.2 0.0 131.8

176 68.7 0.0 126.0



Abundance Ion 94.90 (94.60 to 95.60): VN052058.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052058.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052058.D (-3291) (-)

12.40

150000

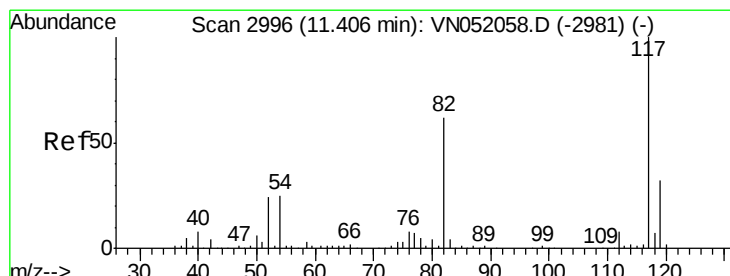
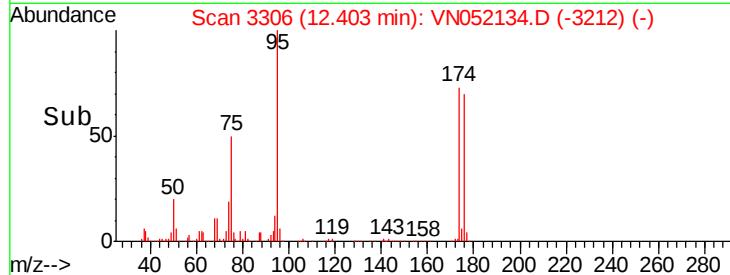
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

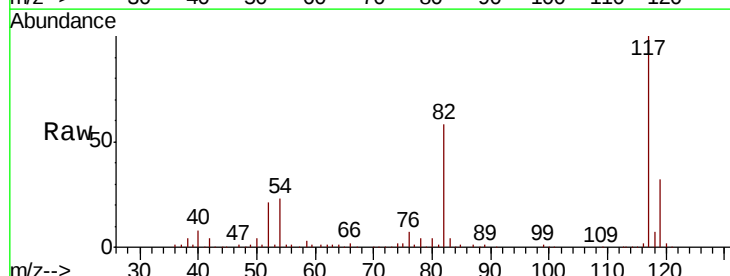
Tgt Ion: 117 Resp: 490772

Ion Ratio Lower Upper

117 100

82 57.6 49.9 74.9

119 32.4 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VN052058.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052058.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052058.D (-2981) (-)

11.41

300000

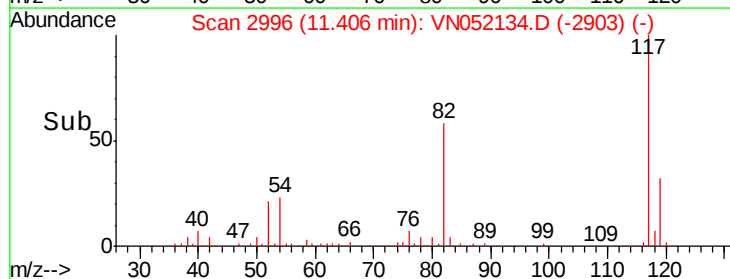
200000

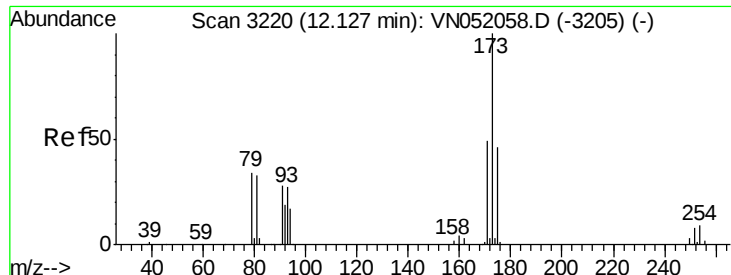
100000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 2.379 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

TP-13

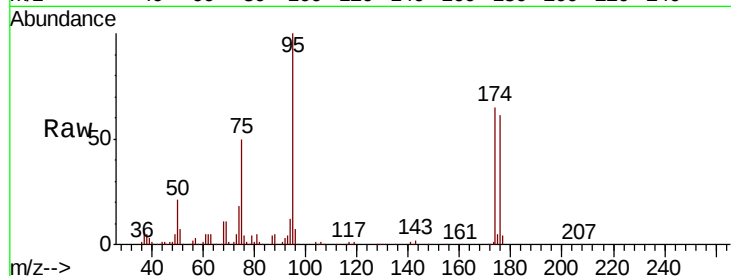
Tot Ion:173 Resp: 438

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.7#

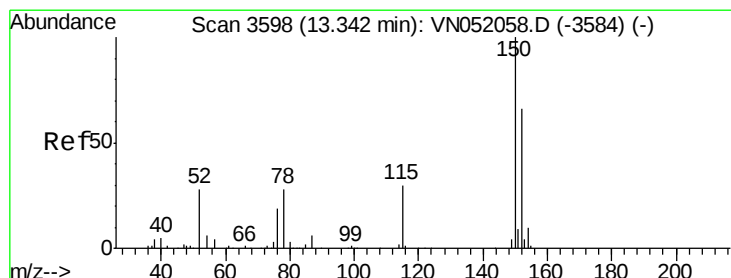
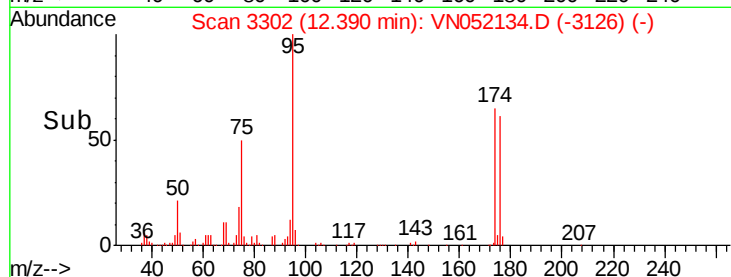
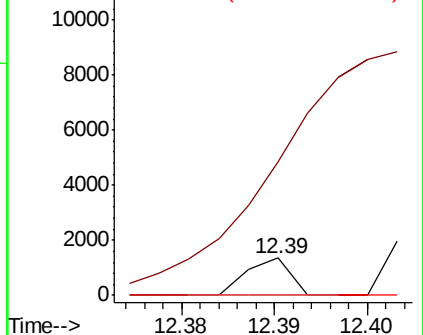
254 0.0 0.0 0.0



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: VN052134.D

Acq: 2 Nov 2018 17:31

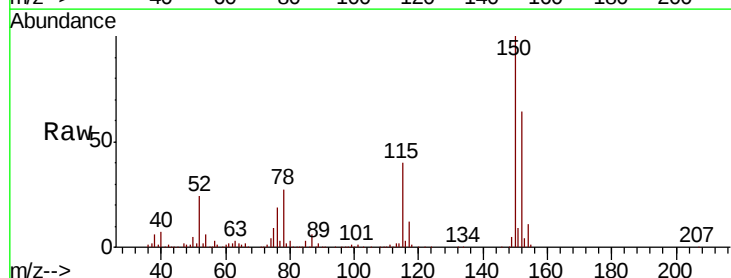
Tgt Ion:152 Resp: 203075

Ion Ratio Lower Upper

152 100

115 62.5 31.6 95.0

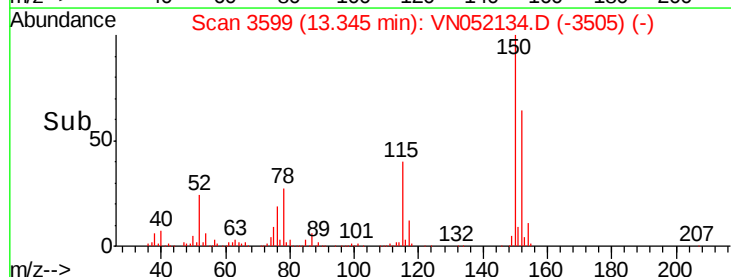
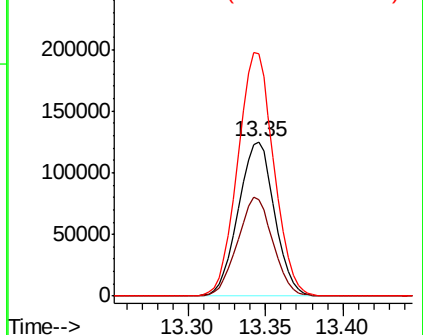
150 157.4 0.0 345.0

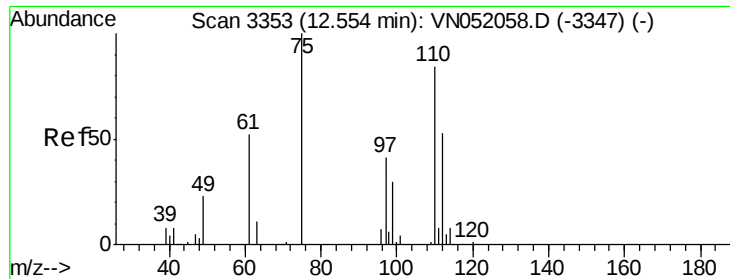


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 37.246 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

Instrument :

MSVOA_N

ClientSampled :

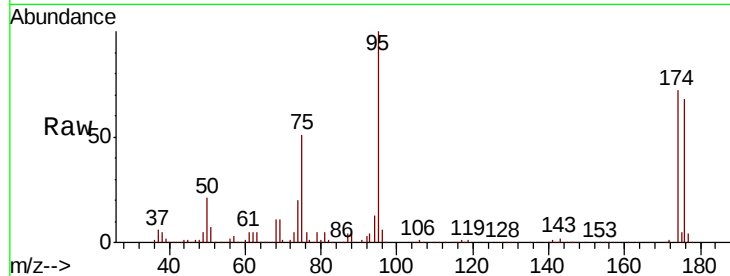
TP-13

Tot Ion: 75 Resp: 138457

Ion Ratio Lower Upper

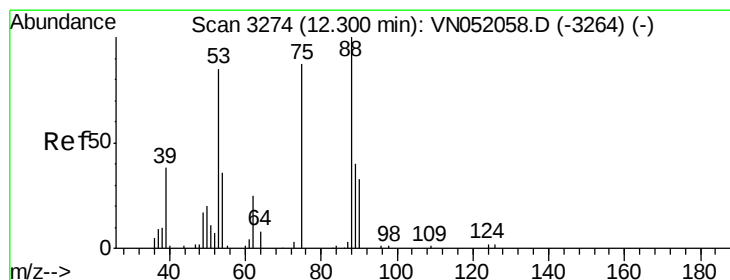
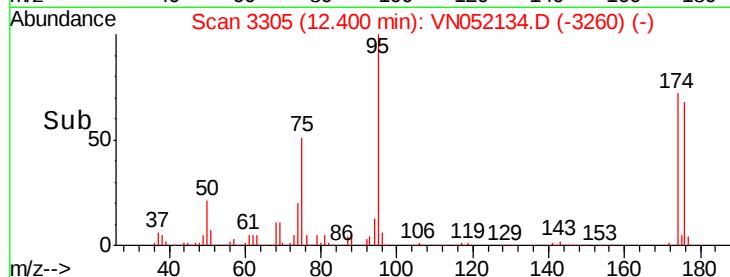
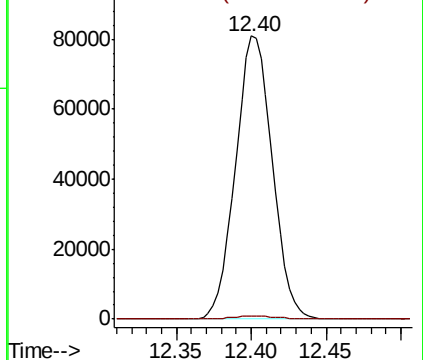
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 123.625 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

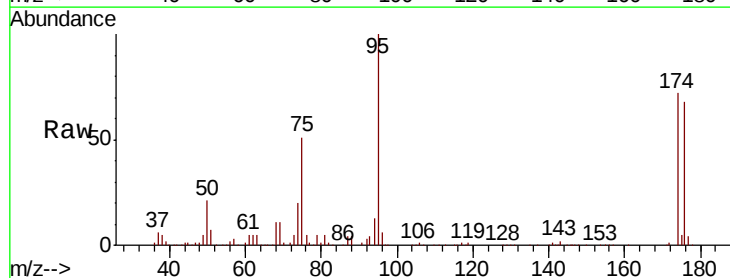
Tgt Ion: 75 Resp: 138457

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.6#

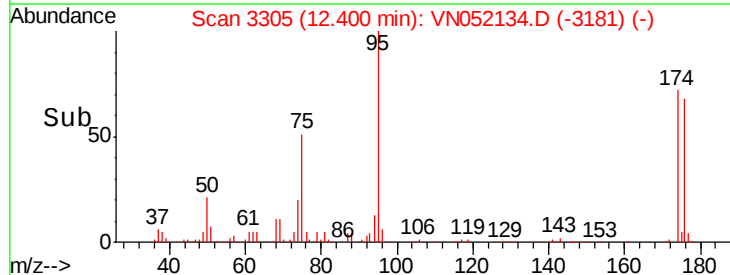
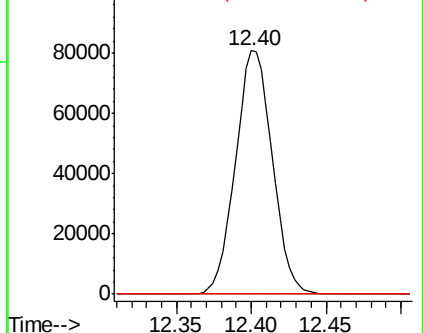
89 0.0 36.6 54.8#

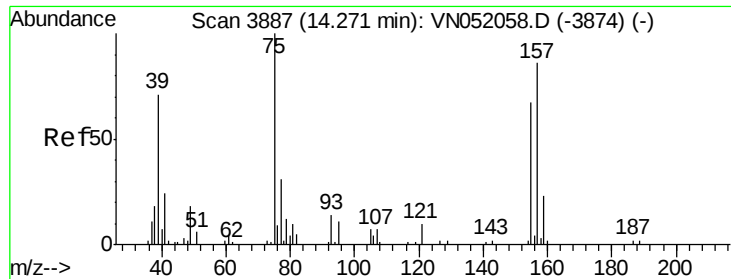


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.017 ug/l

RT: 14.34 min Scan# 3908

Delta R.T. 0.07 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

Instrument :

MSVOA_N

ClientSampleId :

TP-13

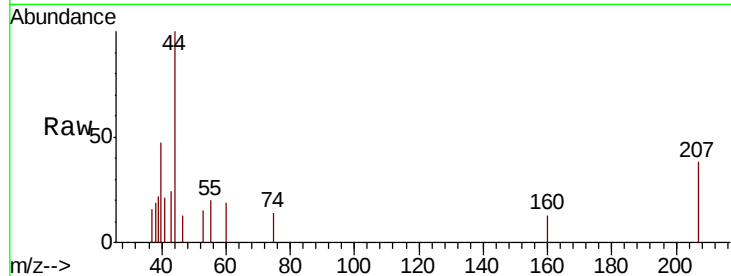
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

157 0.0 42.1 126.4#

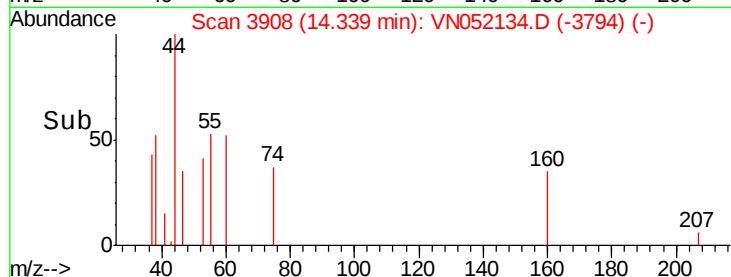


Abundance Ion 74.90 (74.60 to 75.60): VN052134.D (-3794) (-)

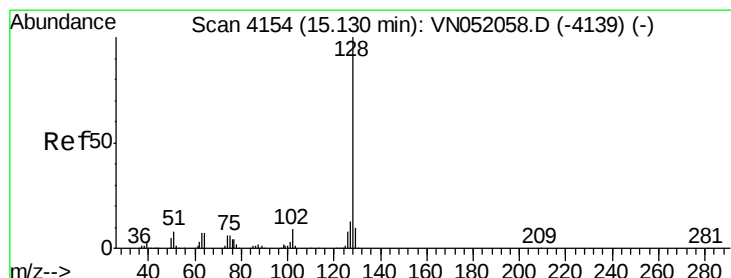
Ion 154.80 (154.50 to 155.50): VN052134.D (-3794) (-)

Ion 156.80 (156.50 to 157.50): VN052134.D (-3794) (-)

Time-->



Time-->



#95

Naphthalene

Concen: 2.282 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052134.D

Acq: 2 Nov 2018 17:31

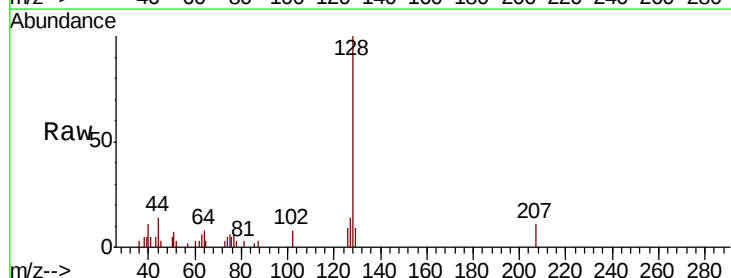
Tgt Ion: 128 Resp: 13281

Ion Ratio Lower Upper

128 100

127 9.8 10.5 15.7#

129 9.8 8.6 12.8

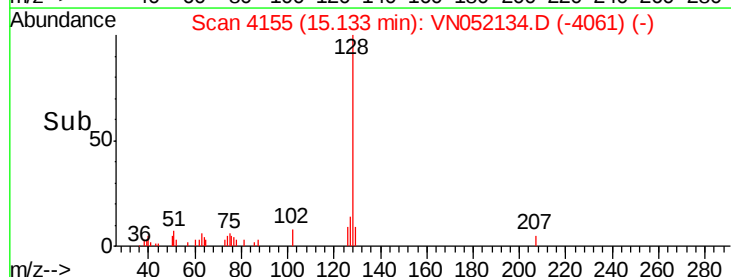


Abundance Ion 128.00 (127.70 to 128.70): VN052134.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN052134.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN052134.D (-4061) (-)

Time-->



Time-->