

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052139.D
 Acq On : 2 Nov 2018 19:46
 Operator : MD\SY
 Sample : J5741-42
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-10

Quant Time: Nov 02 23:16:32 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	268967	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	501542	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	490154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	200812	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	235046	54.46	ug/l	0.00
Spiked Amount			Recovery	=	108.92%	
35) Dibromofluoromethane	7.60	113	187490	59.76	ug/l	0.00
Spiked Amount			Recovery	=	119.52%	
50) Toluene-d8	10.09	98	764771	60.98	ug/l	0.00
Spiked Amount			Recovery	=	121.96%	
62) 4-Bromofluorobenzene	12.40	95	266015	57.78	ug/l	0.00
Spiked Amount			Recovery	=	115.56%	

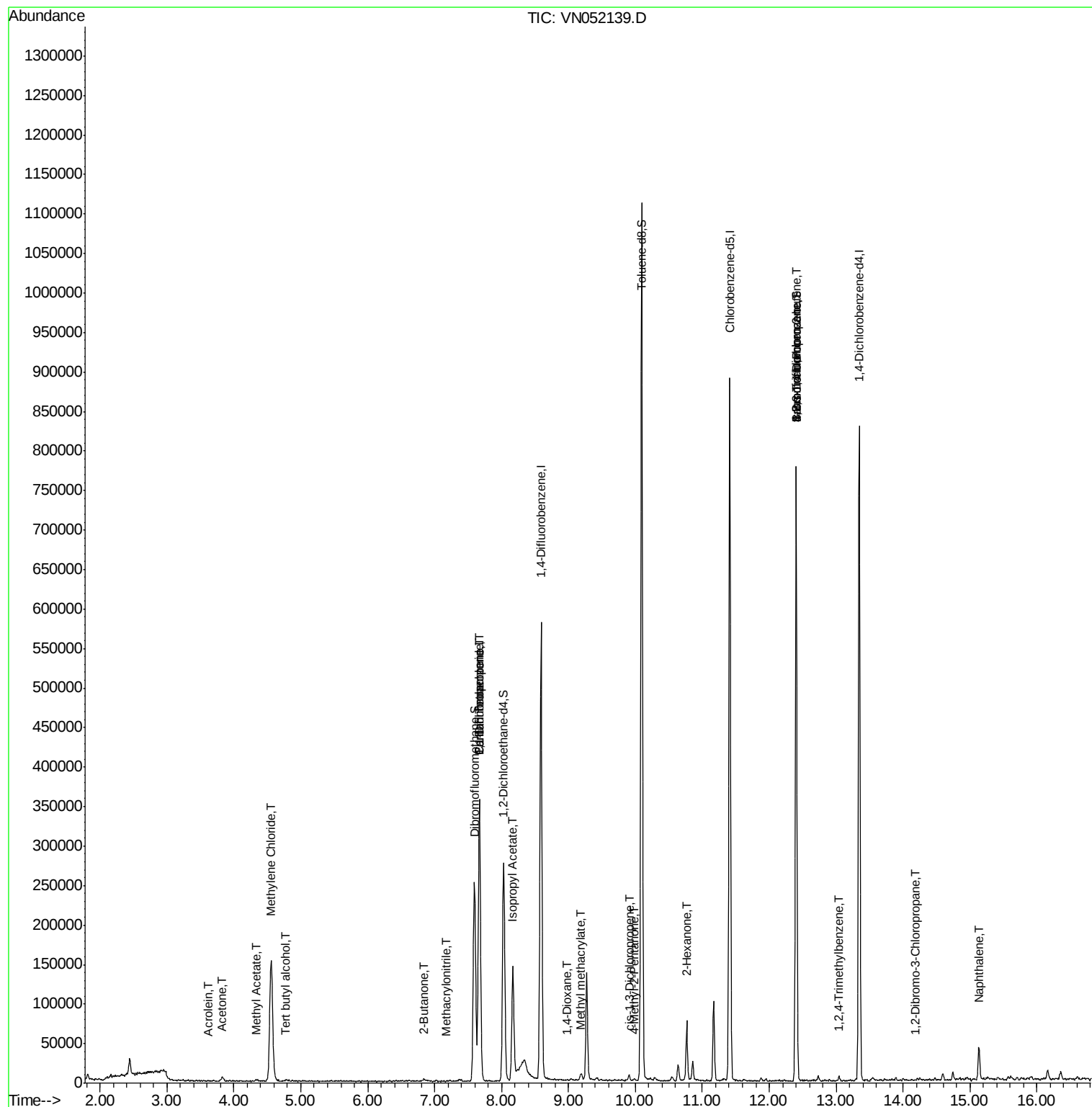
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	991	4.585	ug/l #	93
13) Acrolein	3.61	56	95	24.433	ug/l #	12
16) Acetone	3.83	43	8222	8.924	ug/l #	81
18) Methyl Acetate	4.33	43	2149	0.733	ug/l #	82
20) Methylene Chloride	4.56	84	110495	31.476	ug/l	92
25) 2-Butanone	6.82	43	608	0.421	ug/l	93
31) Cyclohexane	7.67	56	7142	Below Cal	#	12
36) 1,1-Dichloropropene	7.68	75	23603	4.628	ug/l #	51
38) Carbon Tetrachloride	7.67	117	28484	6.478	ug/l #	17
41) Methacrylonitrile	7.18	41	128	0.215	ug/l #	29
43) Isopropyl Acetate	8.17	43	175153	28.850	ug/l	98
48) Methyl methacrylate	9.19	41	4523	1.469	ug/l #	16
49) 1,4-Dioxane	8.99	88	30	26.194	ug/l #	58
51) 4-Methyl-2-Pentanone	9.98	43	1794	0.544	ug/l #	61
54) cis-1,3-Dichloropropene	9.91	75	1311	0.228	ug/l #	77
59) 2-Hexanone	10.77	43	11001	4.678	ug/l #	62
71) Bromoform	12.40	173	2092	3.138	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	137123	37.303	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	137123	123.814	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.04	105	2803	0.202	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.18	75	29	0.967	ug/l #	11
95) Naphthalene	15.13	128	35360	6.145	ug/l #	90

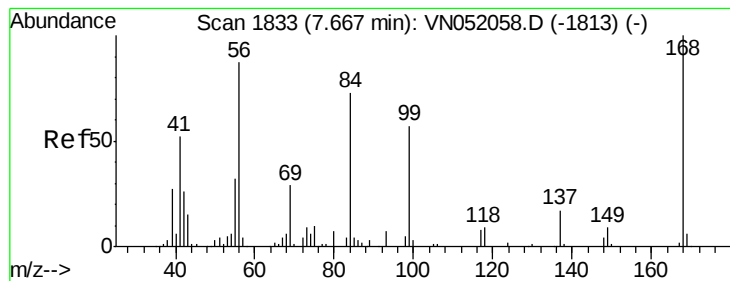
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

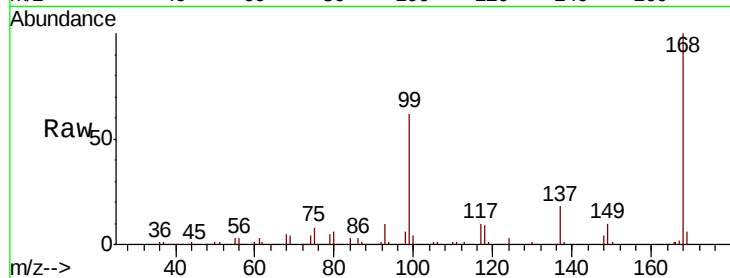
TP-10

Tot Ion:168 Resp: 268967

Ion Ratio Lower Upper

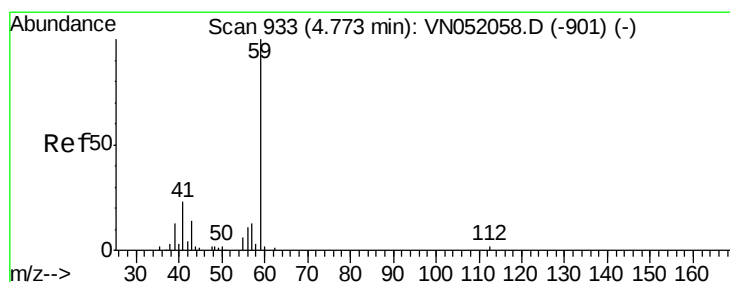
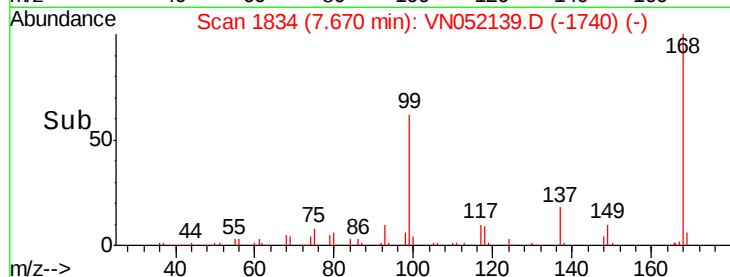
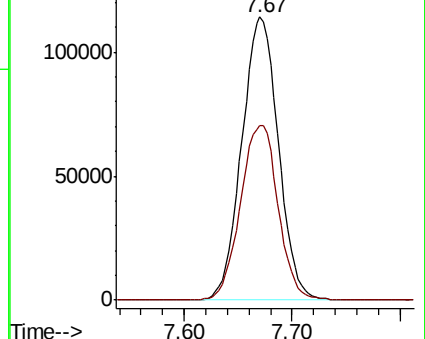
168 100

99 61.7 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 4.585 ug/l

RT: 4.78 min Scan# 934

Delta R.T. 0.00 min

Lab File: VN052139.D

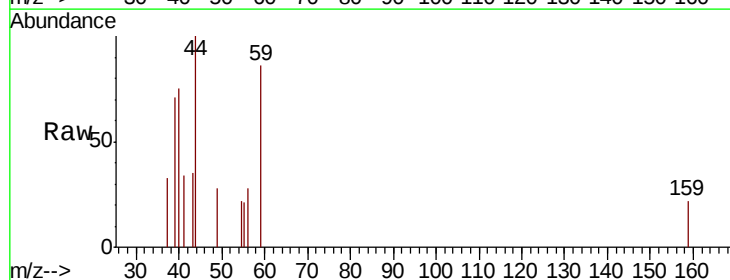
Acq: 2 Nov 2018 19:46

Tgt Ion: 59 Resp: 991

Ion Ratio Lower Upper

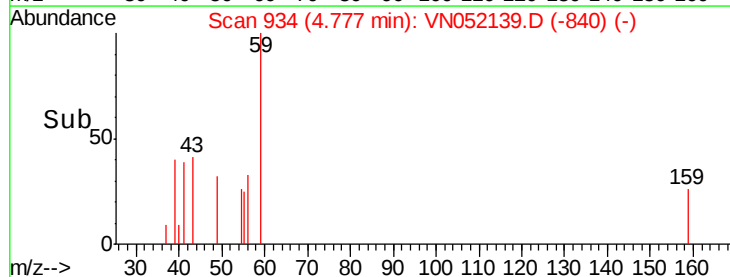
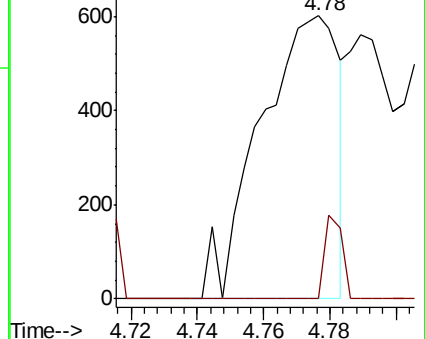
59 100

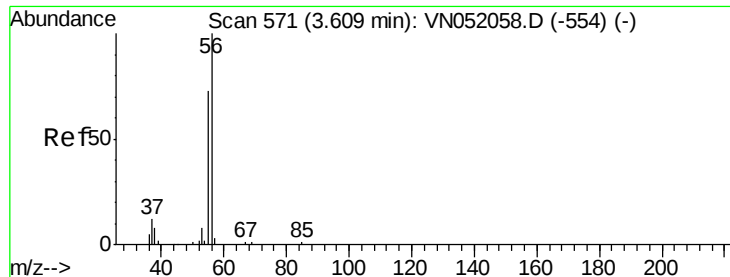
57 6.4 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 24.433 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

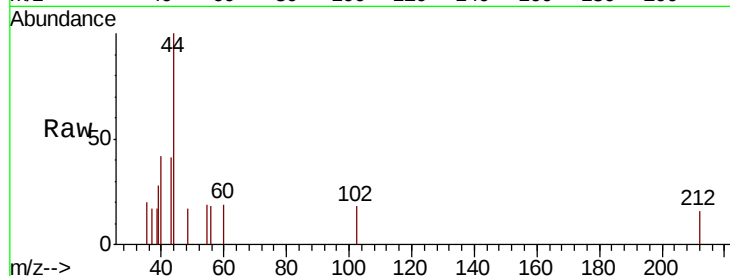
TP-10

Tot Ion: 56 Resp: 95

Ion Ratio Lower Upper

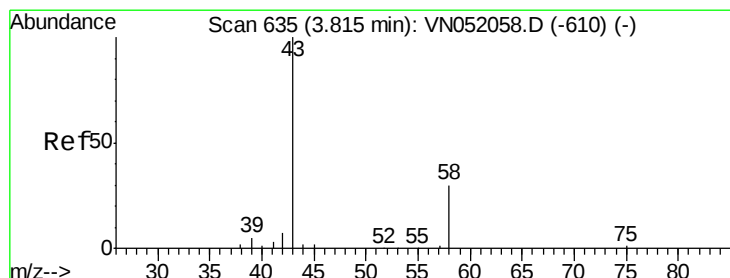
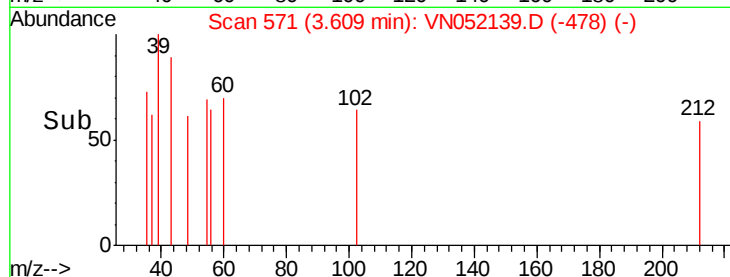
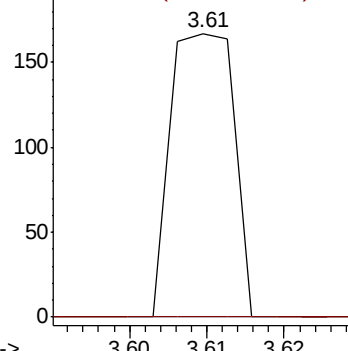
56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 8.924 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052139.D

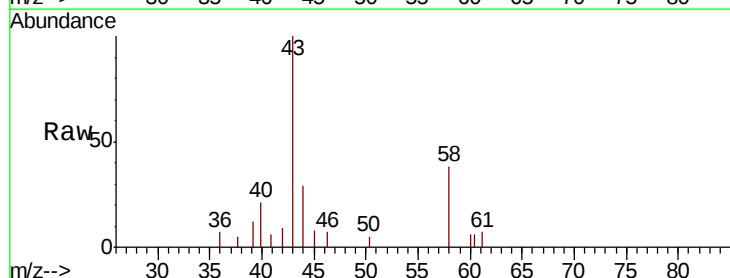
Acq: 2 Nov 2018 19:46

Tgt Ion: 43 Resp: 8222

Ion Ratio Lower Upper

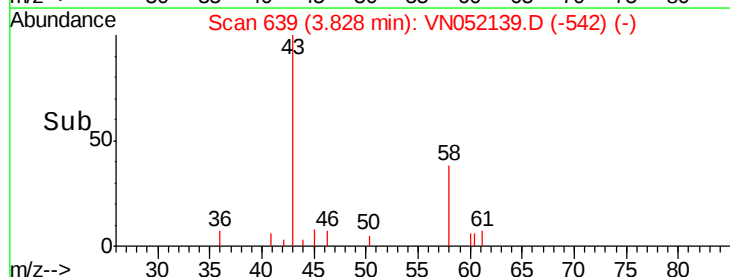
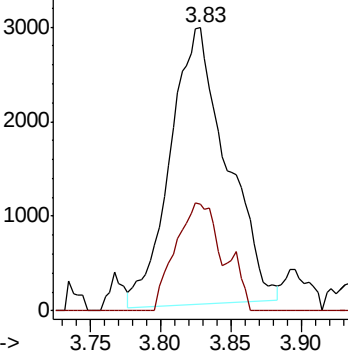
43 100

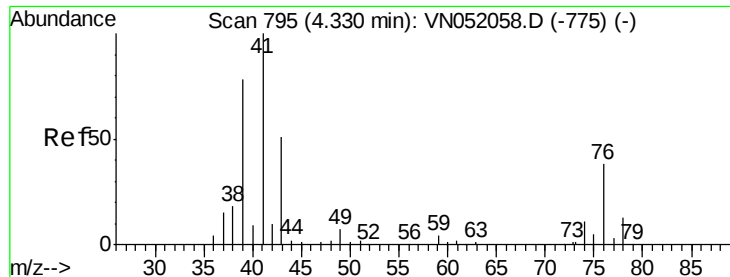
58 40.6 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

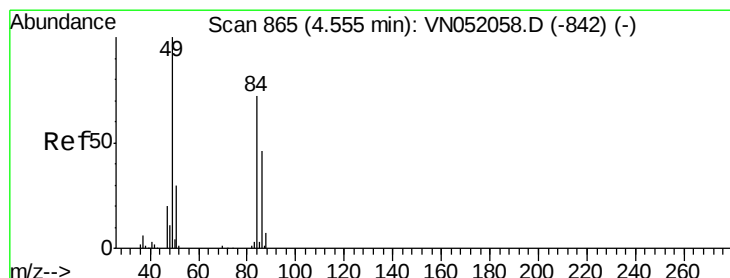
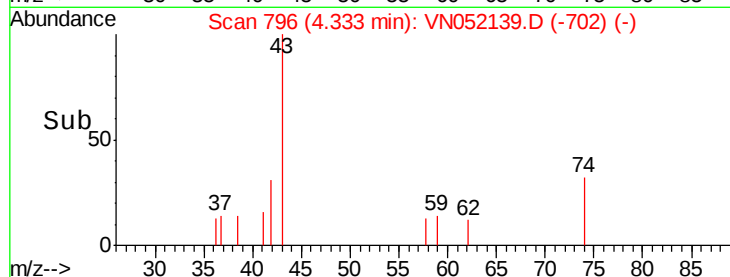
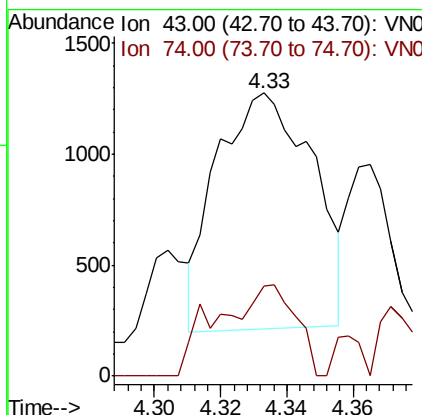
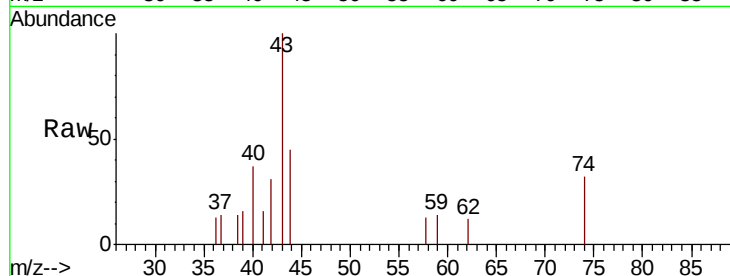




#18
Methyl Acetate
Concen: 0.733 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN052139.D
Acq: 2 Nov 2018 19:46

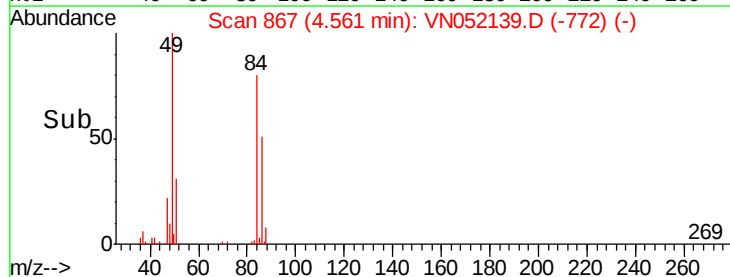
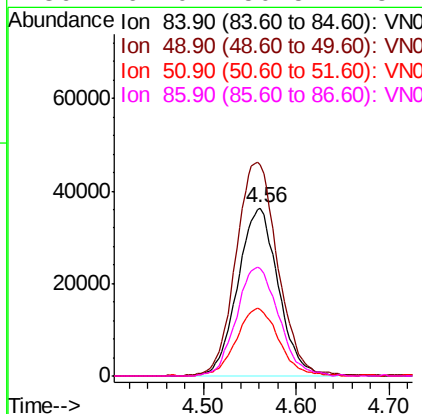
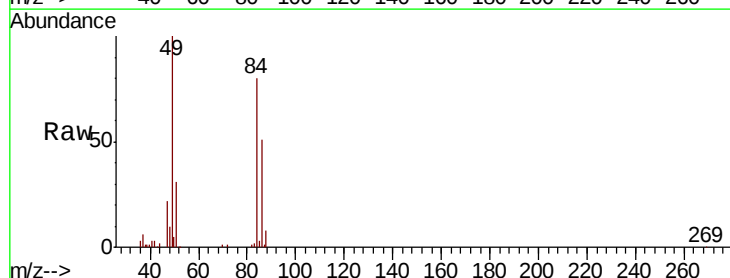
Instrument :
MSVOA_N
ClientSampled :
TP-10

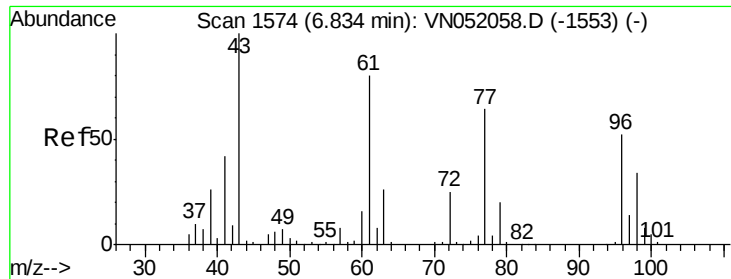
Tot Ion: 43 Resp: 2149
Ion Ratio Lower Upper
43 100
74 31.0 17.9 26.9#



#20
Methylene Chloride
Concen: 31.476 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052139.D
Acq: 2 Nov 2018 19:46

Tgt Ion: 84 Resp: 110495
Ion Ratio Lower Upper
84 100
49 124.3 110.6 165.8
51 39.5 33.7 50.5
86 64.0 50.5 75.7

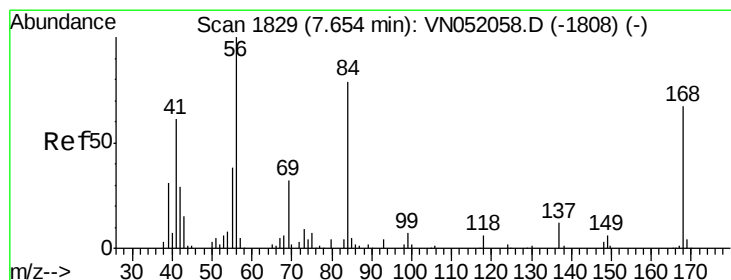
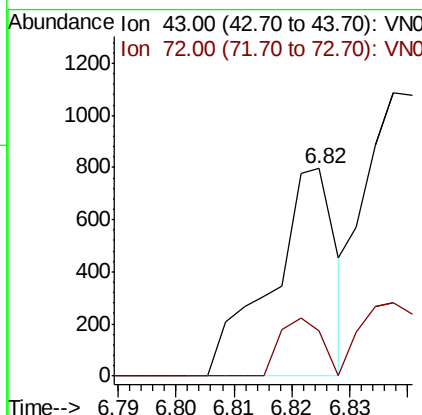
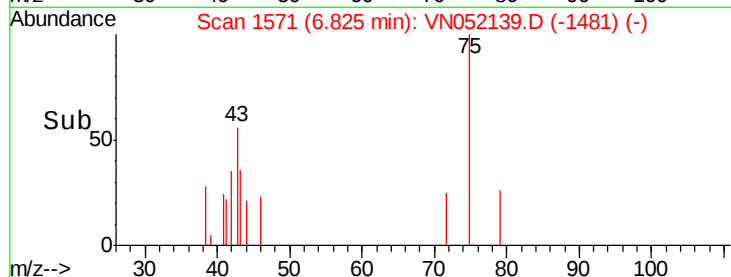
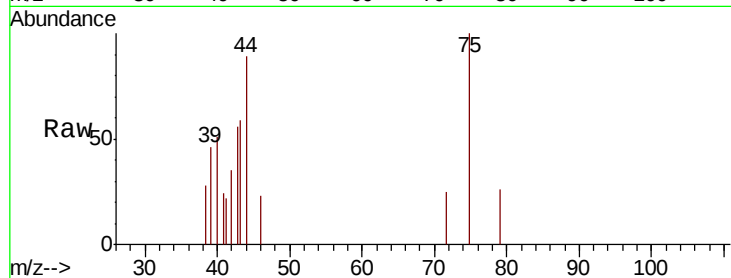




#25
2-Butanone
Concen: 0.421 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VN052139.D
Acq: 2 Nov 2018 19:46

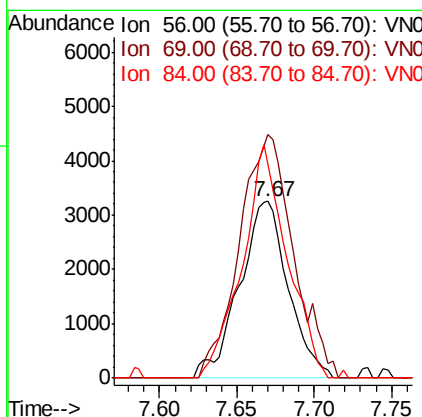
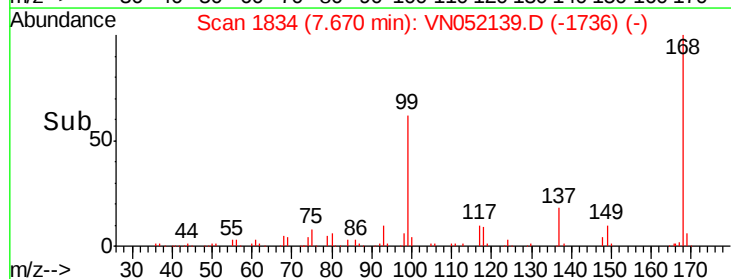
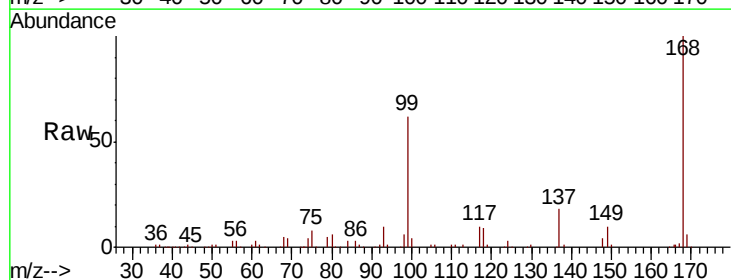
Instrument :
MSVOA_N
ClientSampled :
TP-10

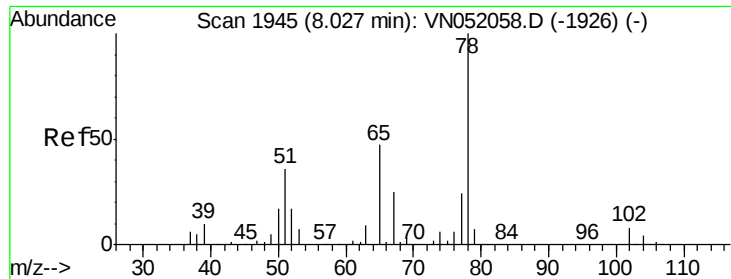
Tot Ion: 43 Resp: 608
Ion Ratio Lower Upper
43 100
72 21.6 20.2 30.2



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN052139.D
Acq: 2 Nov 2018 19:46

Tgt Ion: 56 Resp: 7142
Ion Ratio Lower Upper
56 100
69 137.8 25.8 38.6#
84 121.1 63.5 95.3#

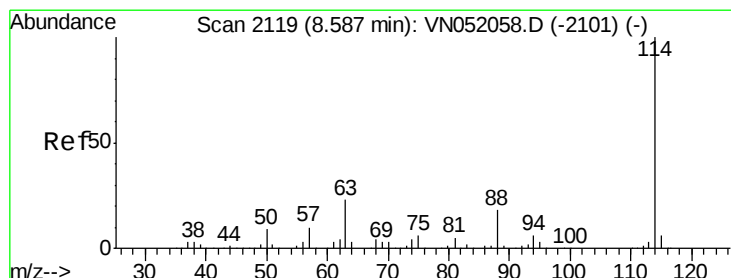
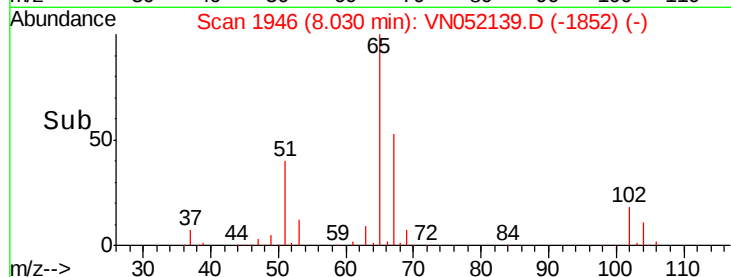
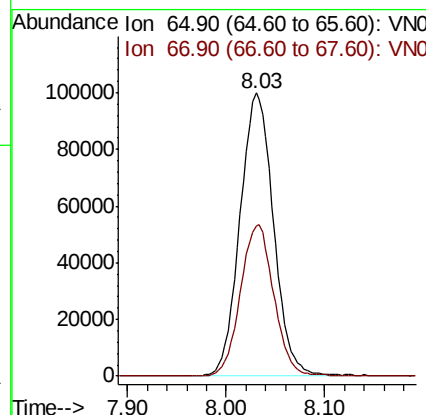
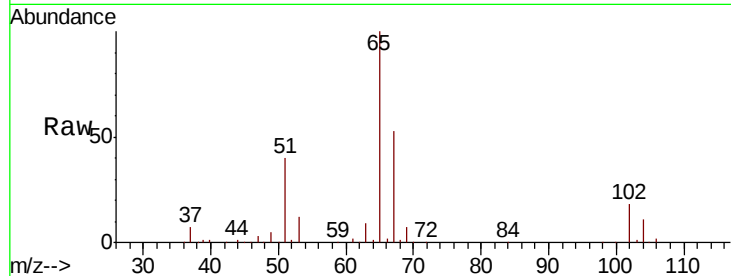




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052139.D
 Acq: 2 Nov 2018 19:46

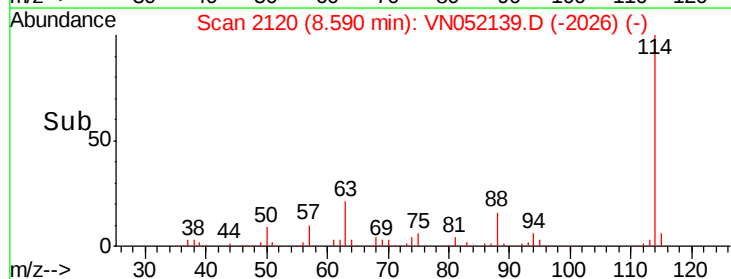
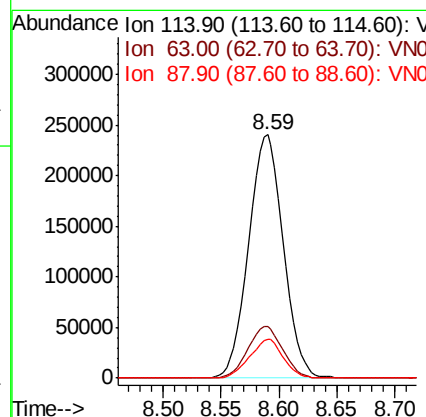
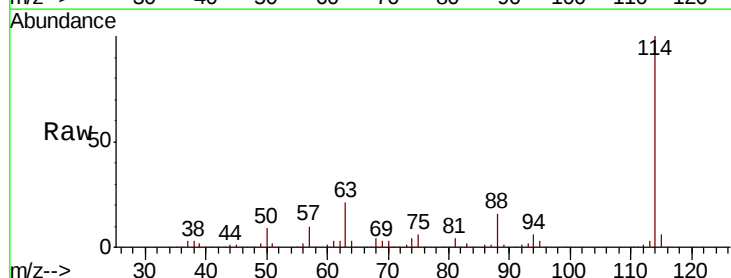
Instrument :
 MSVOA_N
 ClientSampled :
 TP-10

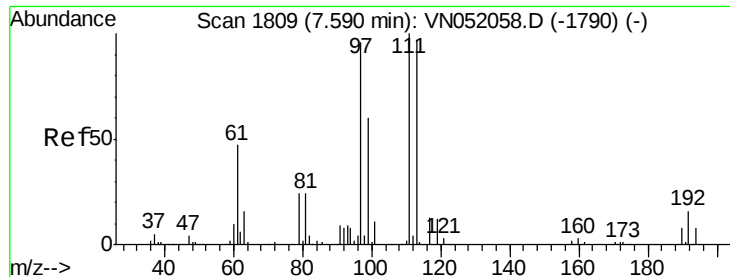
Tot Ion: 65 Resp: 235046
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN052139.D
 Acq: 2 Nov 2018 19:46

Tgt Ion: 114 Resp: 501542
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 46.0
 88 16.1 0.0 35.4

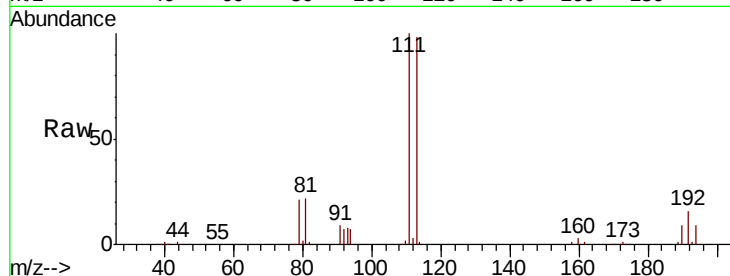




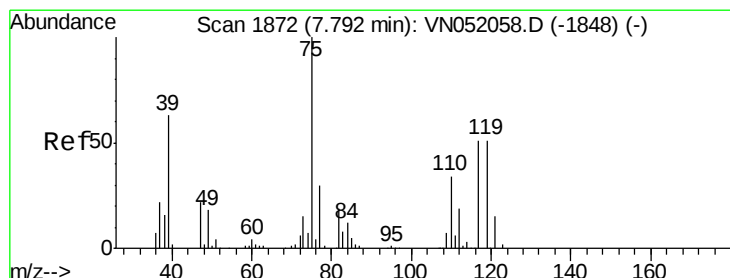
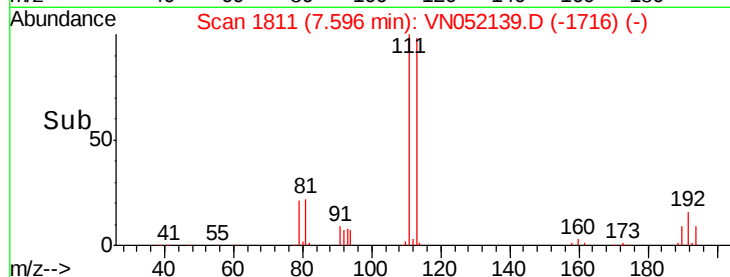
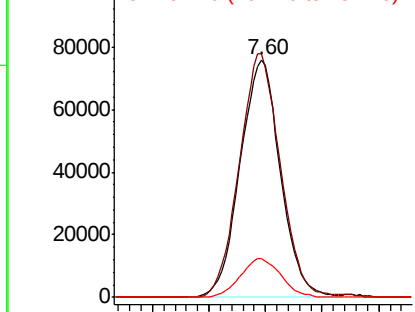
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.60 min Scan# 1811
 Delta R.T. 0.01 min
 Lab File: VN052139.D
 Acq: 2 Nov 2018 19:46

Instrument :
 MSVOA_N
 ClientSampled :
 TP-10

Tot Ion:113 Resp: 187490
 Ion Ratio Lower Upper
 113 100
 111 104.3 83.1 124.7
 192 16.4 12.7 19.1

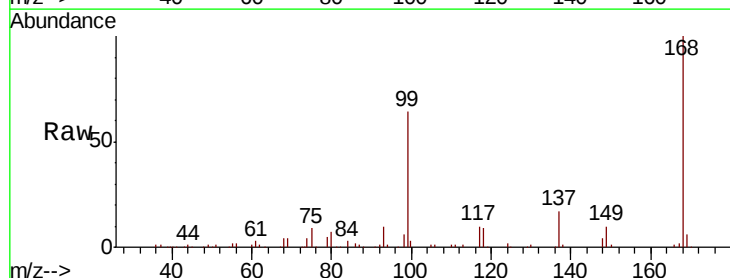


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

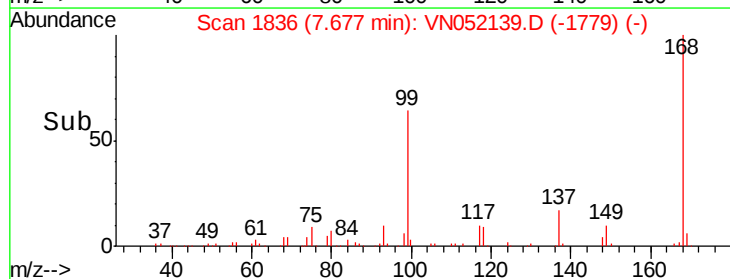
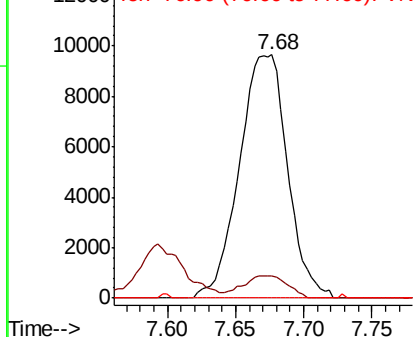


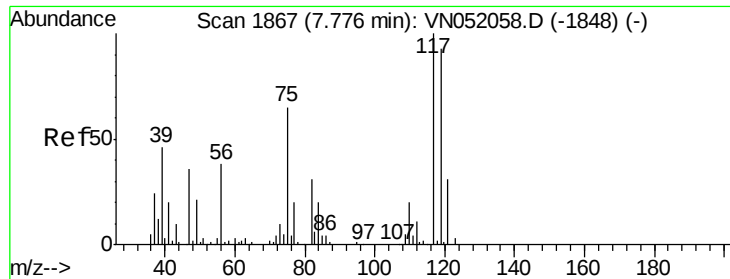
#36
 1,1-Dichloropropene
 Concen: 4.628 ug/l
 RT: 7.68 min Scan# 1836
 Delta R.T. -0.12 min
 Lab File: VN052139.D
 Acq: 2 Nov 2018 19:46

Tgt Ion: 75 Resp: 23603
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.0 48.0#
 77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.478 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampleId :

TP-10

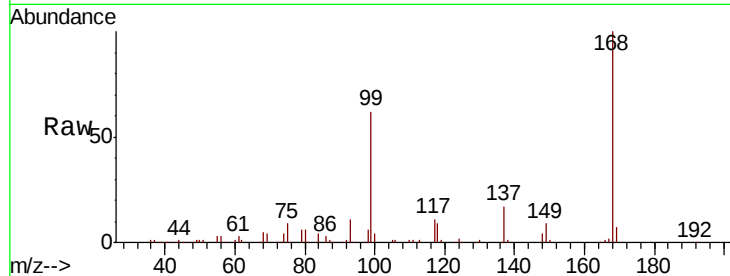
Tot Ion:117 Resp: 28484

Ion Ratio Lower Upper

117 100

119 5.7 74.8 112.2#

121 0.0 25.1 37.7#

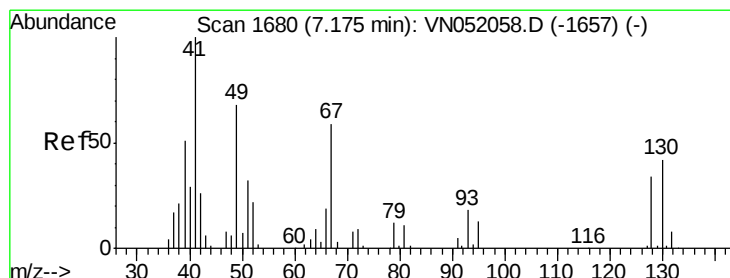
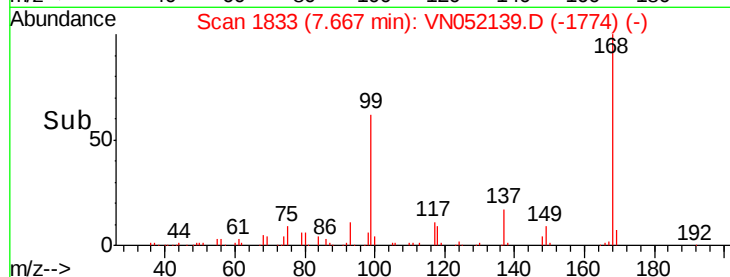
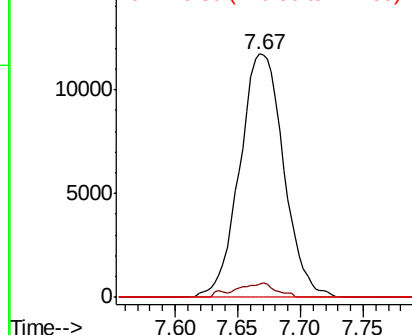


Abundance

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



#41

Methacrylonitrile

Concen: 0.215 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Tgt Ion: 41 Resp: 128

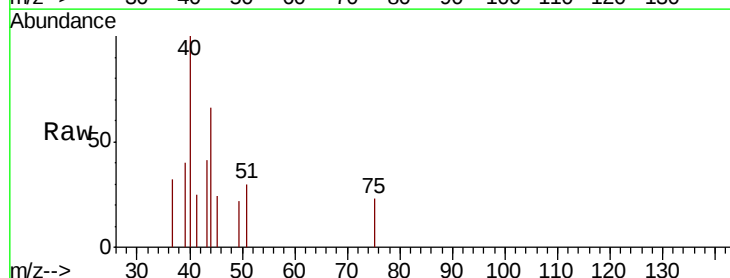
Ion Ratio Lower Upper

41 100

39 0.0 33.2 49.8#

67 0.0 63.5 95.3#

52 47.7 25.6 38.4#



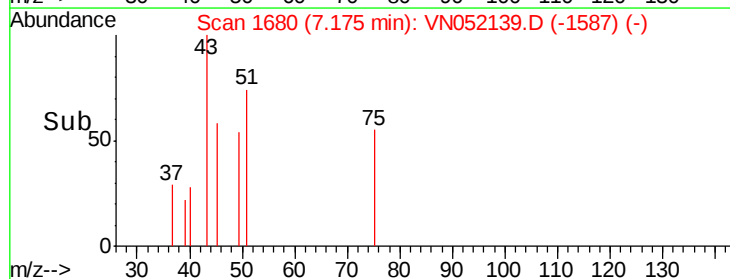
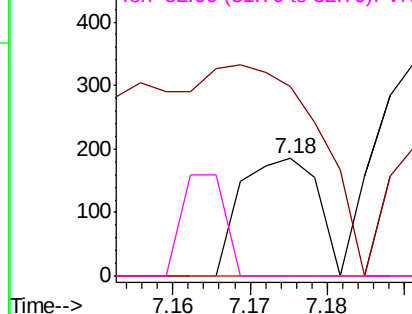
Abundance

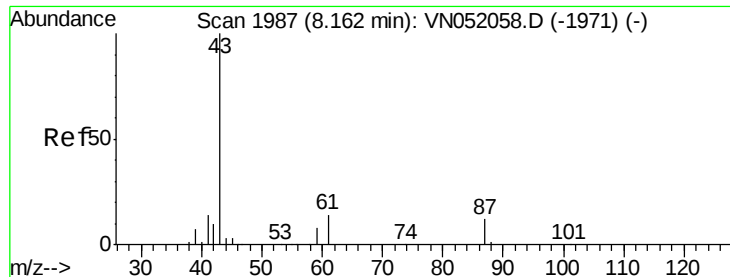
Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 28.850 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

TP-10

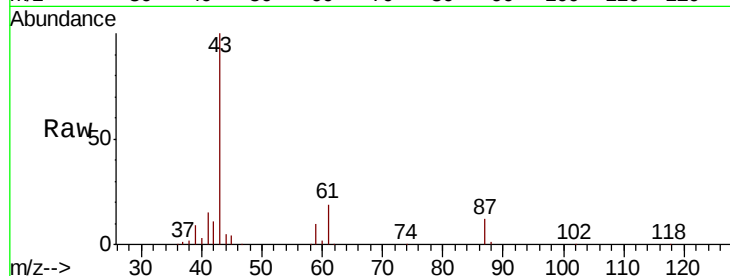
Tot Ion: 43 Resp: 175153

Ion Ratio Lower Upper

43 100

61 18.2 15.4 23.0

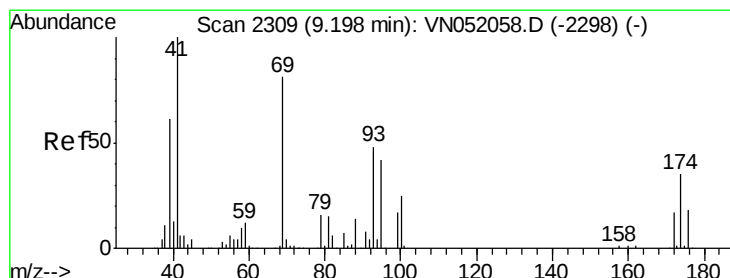
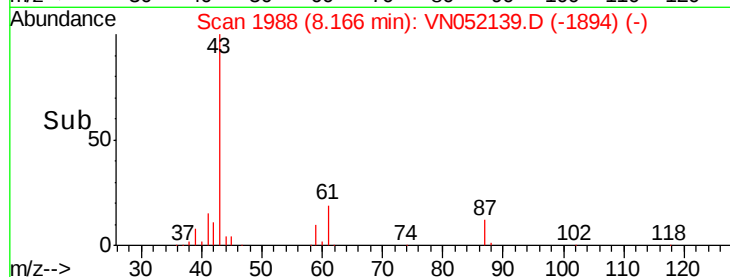
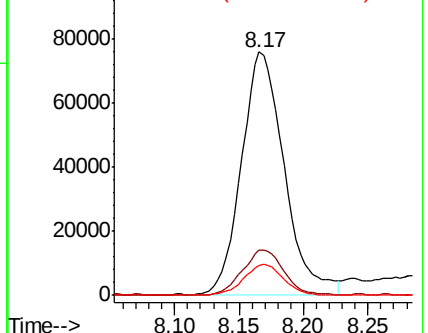
87 11.9 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.469 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

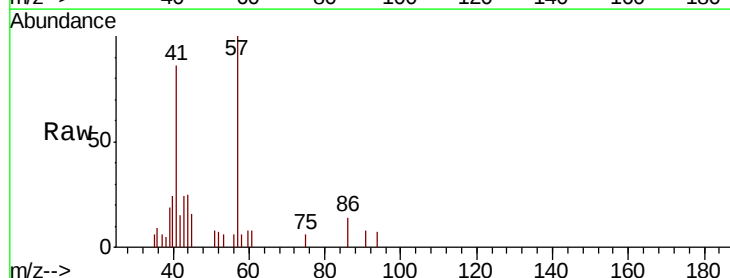
Tgt Ion: 41 Resp: 4523

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

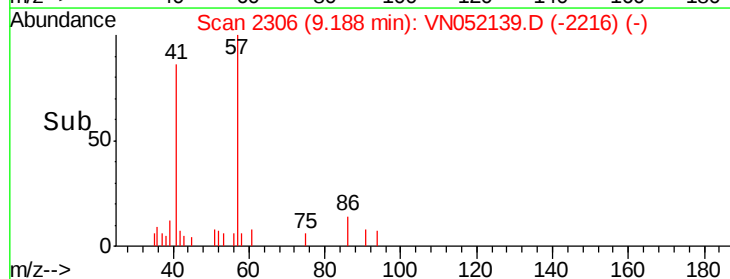
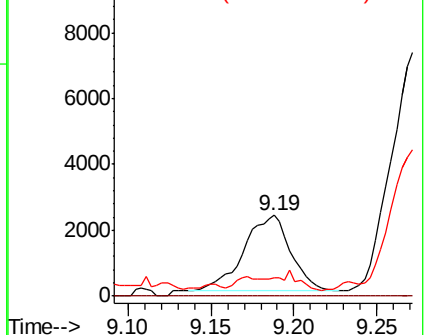
39 6.2 50.5 75.7#

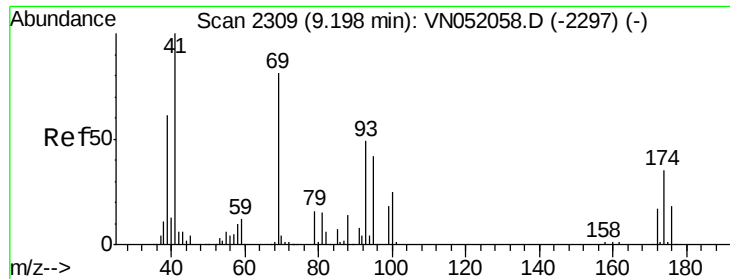


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 26.194 ug/l

RT: 8.99 min Scan# 2243

Delta R.T. -0.21 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

TP-10

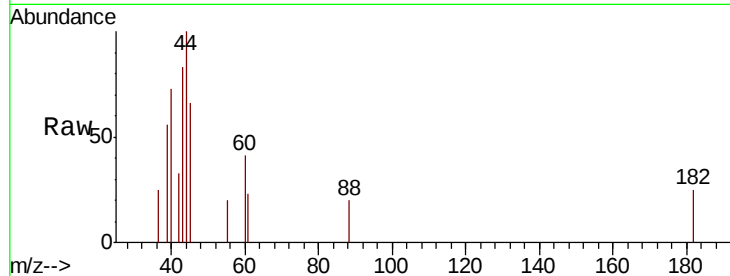
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 0.0 34.1 51.1#

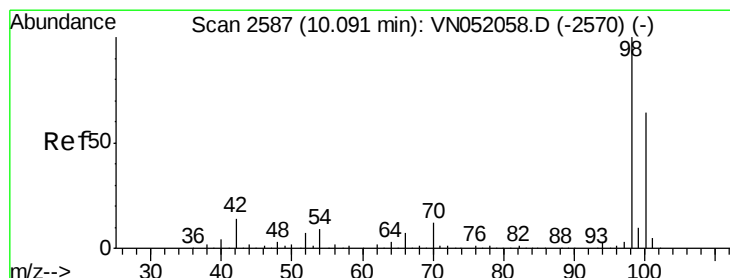
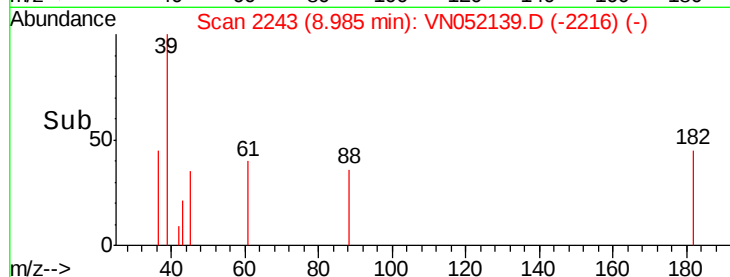
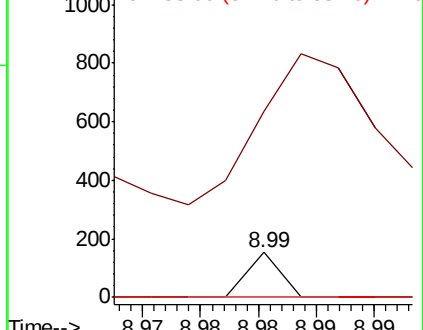
58 103.3 62.8 94.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 26.194 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052139.D

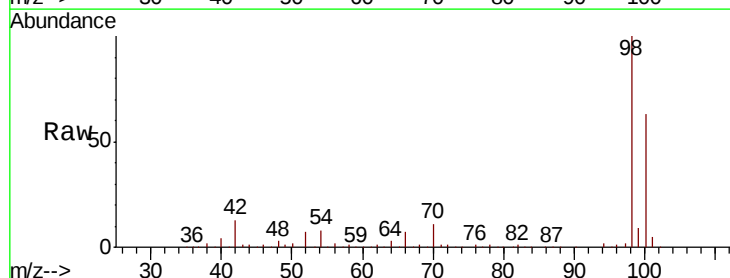
Acq: 2 Nov 2018 19:46

Tgt Ion: 98 Resp: 764771

Ion Ratio Lower Upper

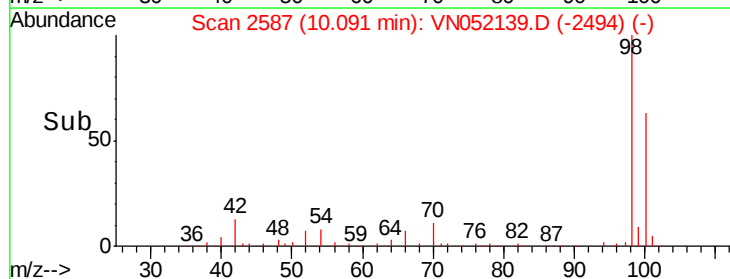
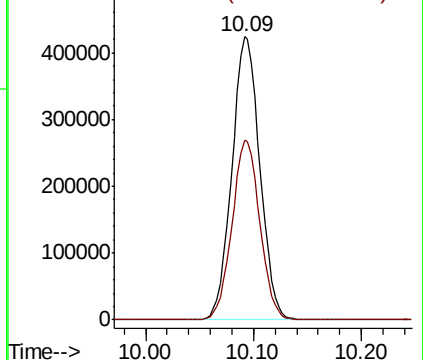
98 100

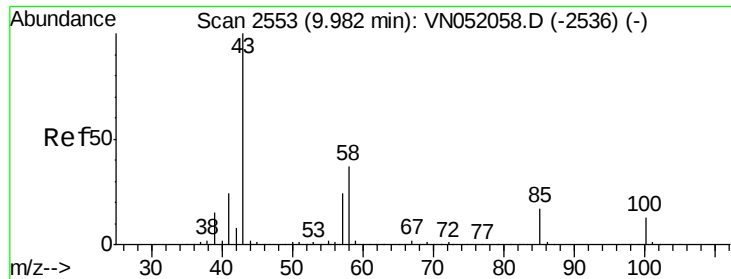
100 63.2 51.4 77.2



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: 0.544 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

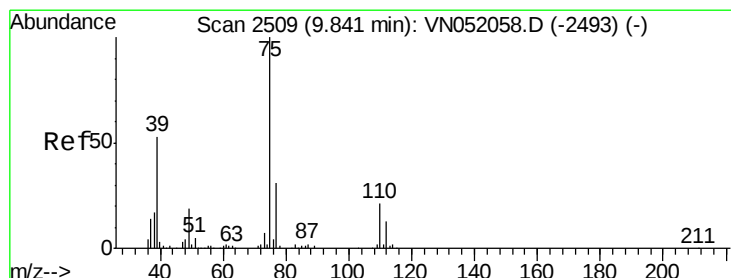
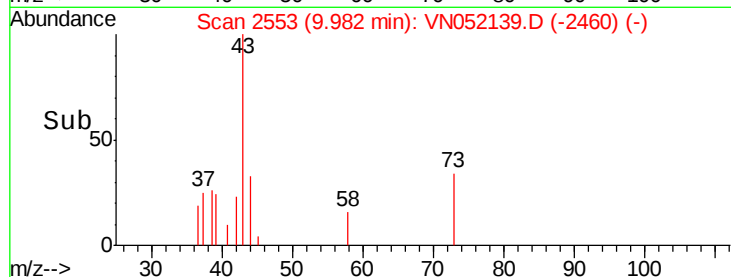
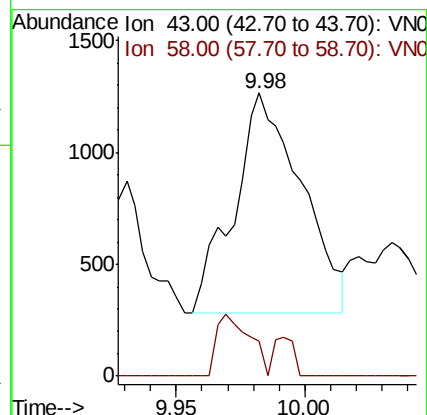
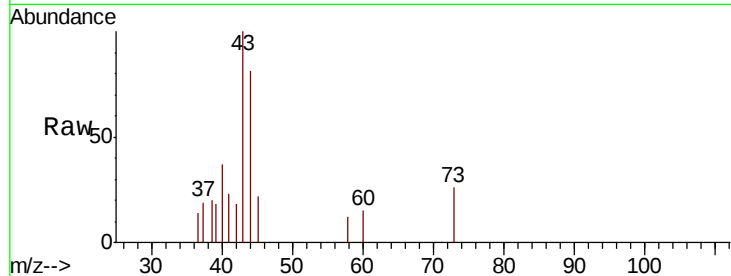
TP-10

Tot Ion: 43 Resp: 1794

Ion Ratio Lower Upper

43 100

58 13.7 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 0.228 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

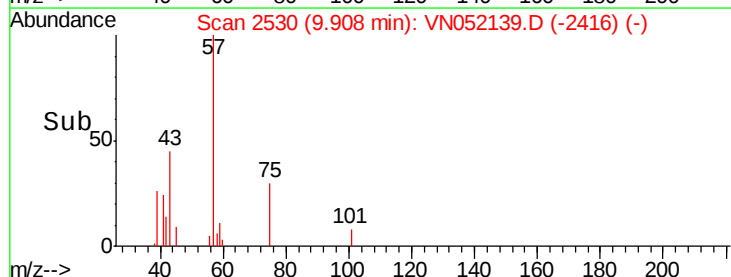
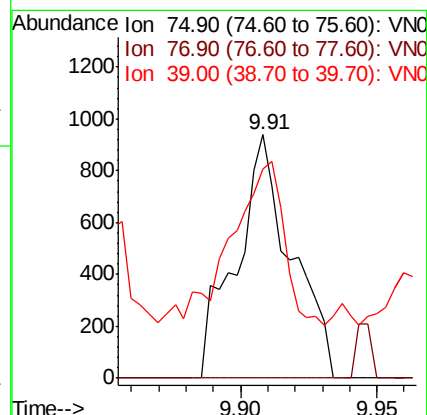
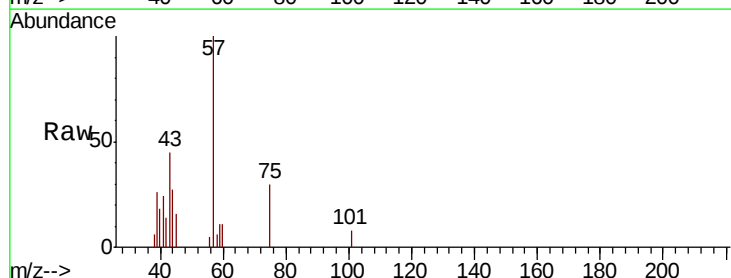
Tgt Ion: 75 Resp: 1311

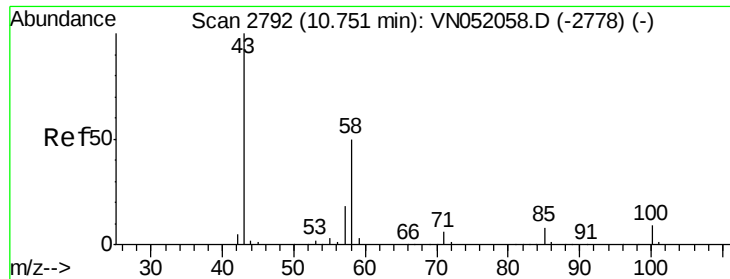
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 55.0 42.3 63.5





#59

2-Hexanone

Concen: 4.678 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

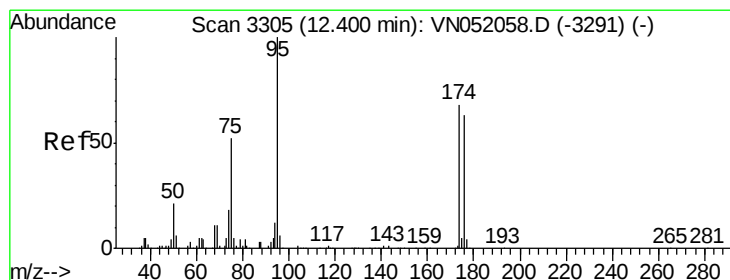
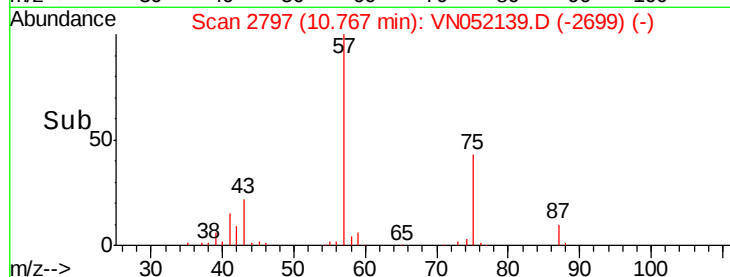
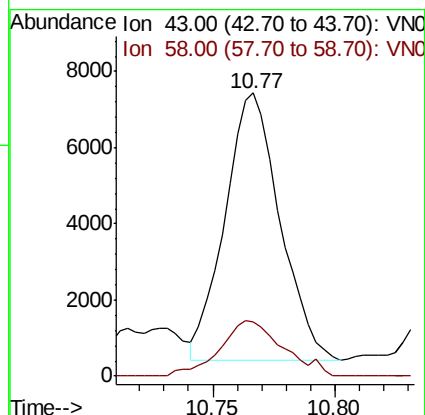
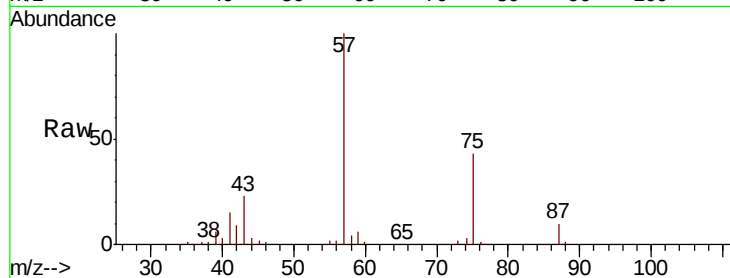
TP-10

Tot Ion: 43 Resp: 11001

Ion Ratio Lower Upper

43 100

58 24.0 25.2 75.6#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

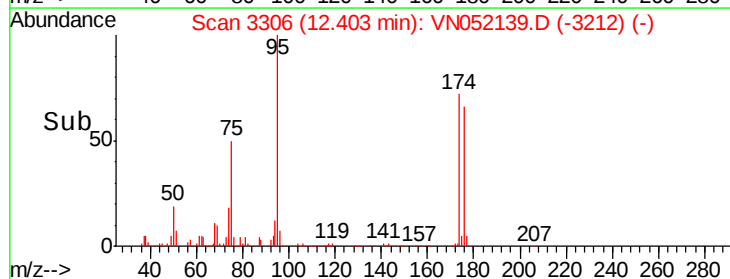
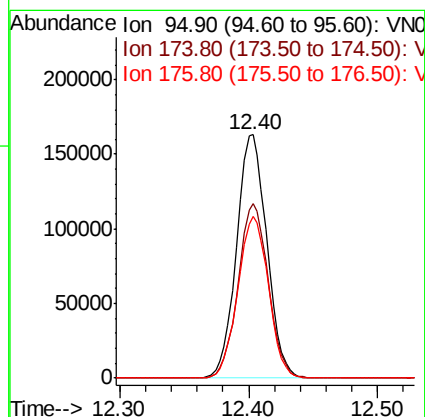
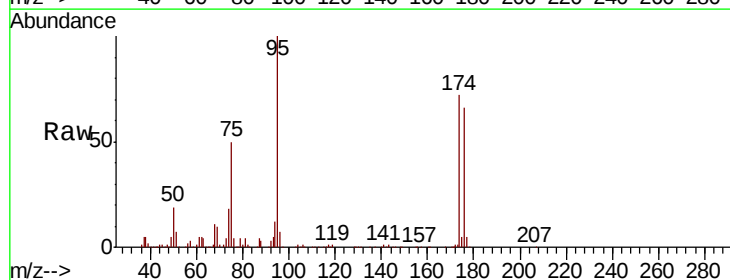
Tgt Ion: 95 Resp: 266015

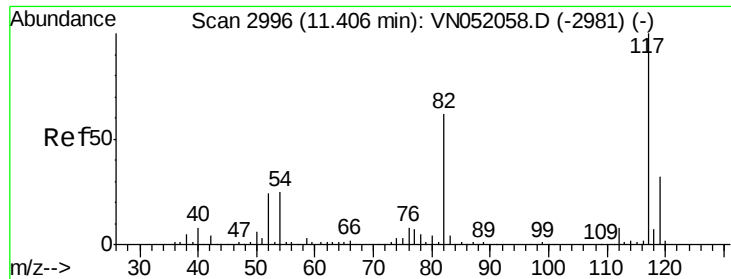
Ion Ratio Lower Upper

95 100

174 71.3 0.0 131.8

176 67.0 0.0 126.0

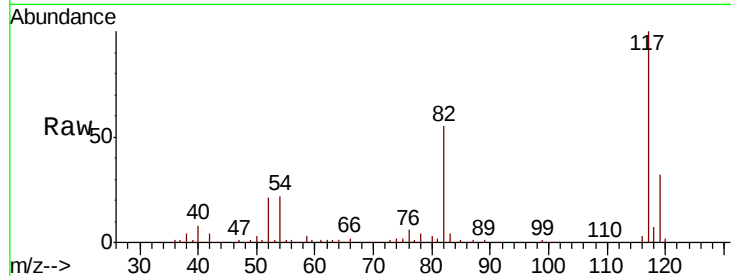




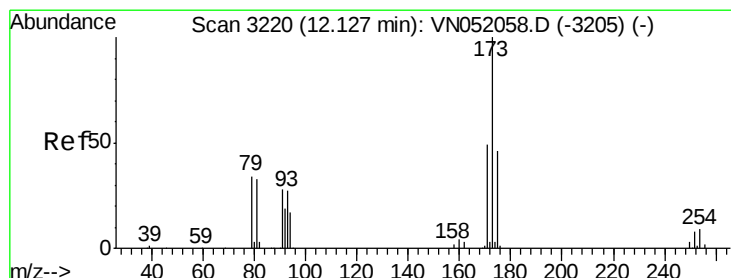
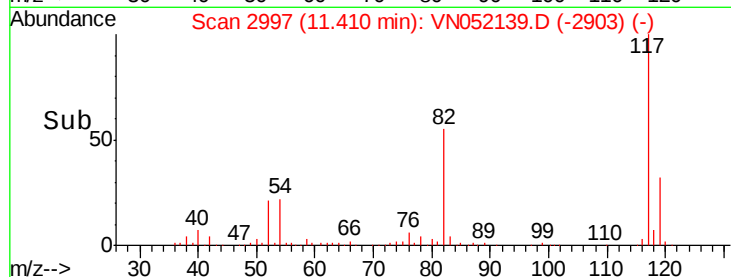
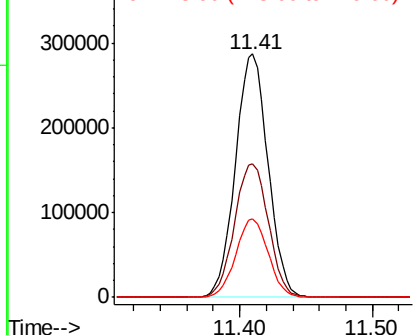
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052139.D
Acq: 2 Nov 2018 19:46

Instrument :
MSVOA_N
ClientSampled :
TP-10

Tot Ion:117 Resp: 490154
Ion Ratio Lower Upper
117 100
82 55.1 49.9 74.9
119 32.2 25.7 38.5

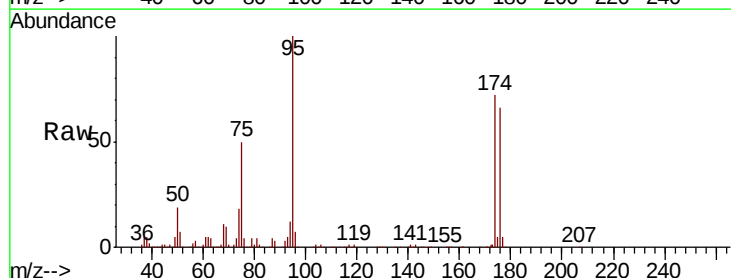


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

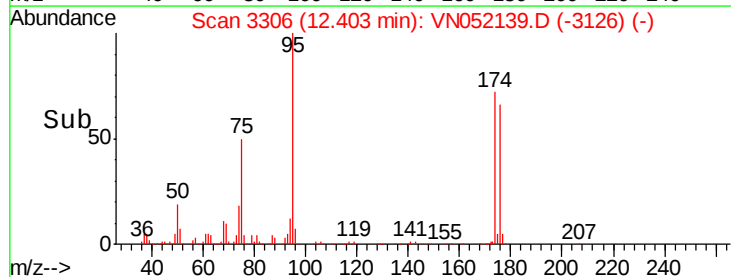
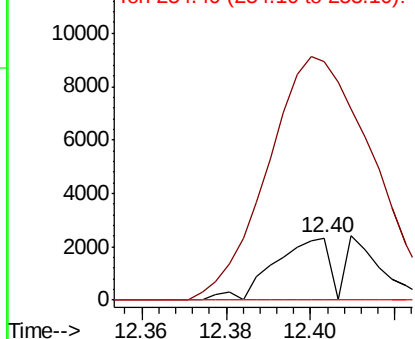


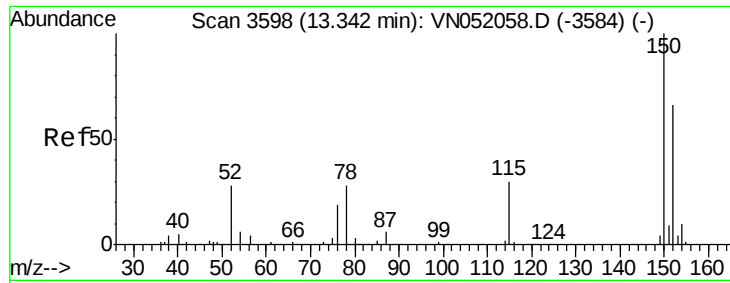
#71
Bromoform
Concen: 3.138 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052139.D
Acq: 2 Nov 2018 19:46

Tgt Ion:173 Resp: 2092
Ion Ratio Lower Upper
173 100
175 633.0 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: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

TP-10

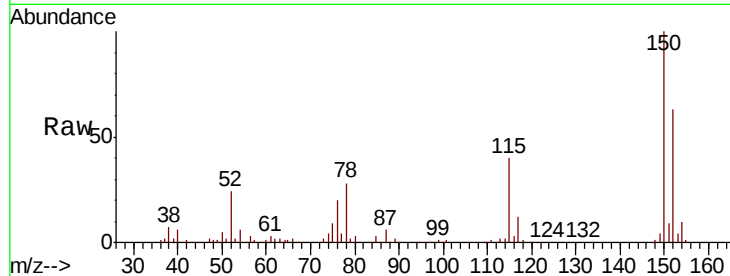
Tot Ion:152 Resp: 200812

Ion Ratio Lower Upper

152 100

115 63.2 31.6 95.0

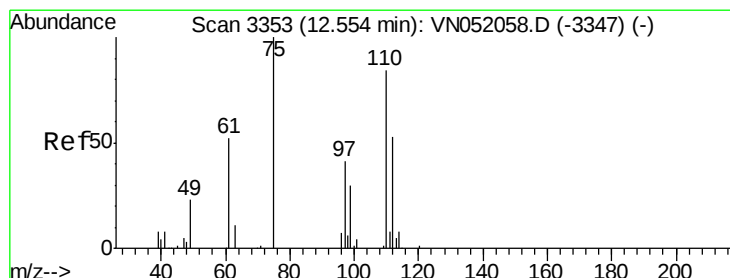
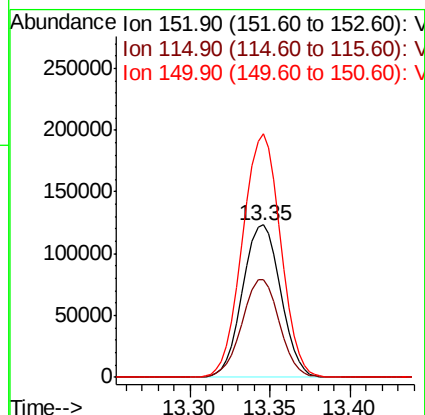
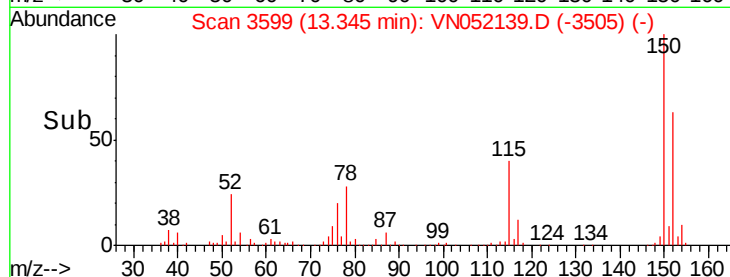
150 159.4 0.0 345.0



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: 37.303 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052139.D

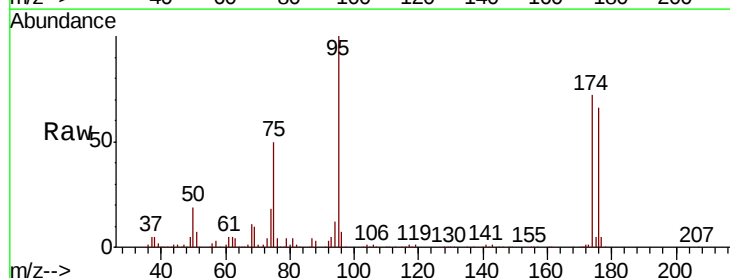
Acq: 2 Nov 2018 19:46

Tgt Ion: 75 Resp: 137123

Ion Ratio Lower Upper

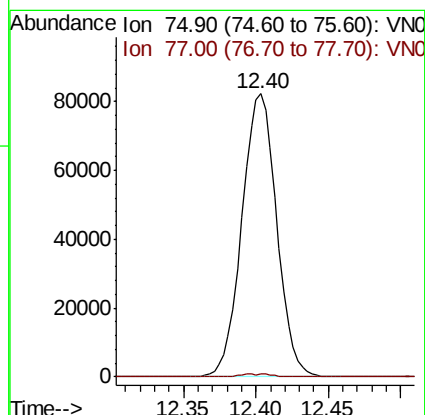
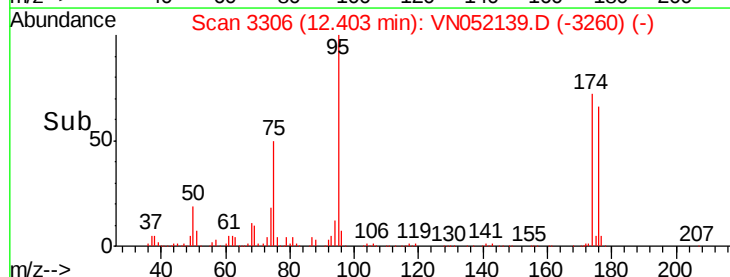
75 100

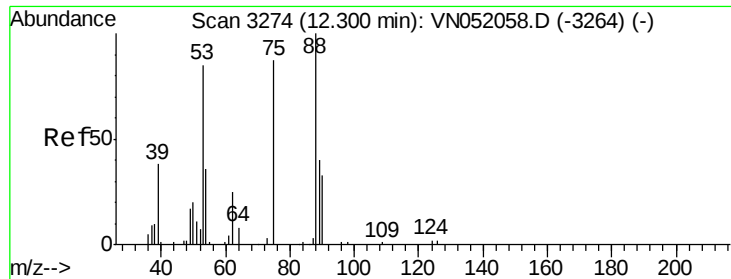
77 0.9 0.0 0.0#



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: 123.814 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

TP-10

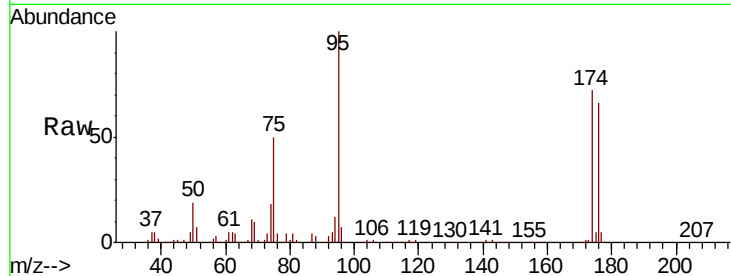
Tot Ion: 75 Resp: 137123

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

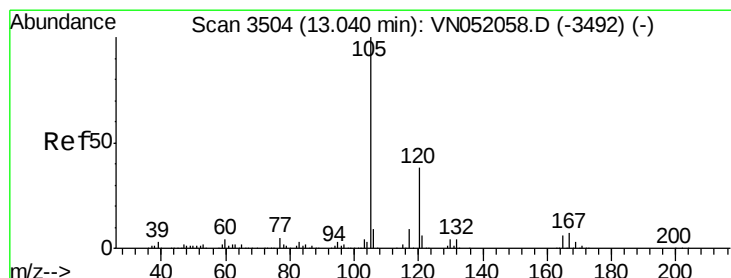
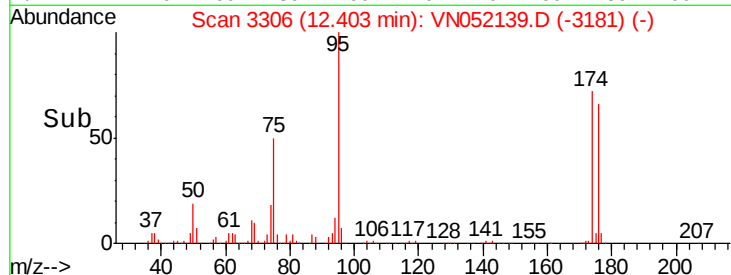
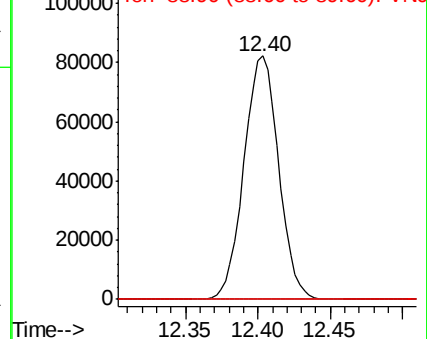
89 0.0 36.6 54.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.202 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN052139.D

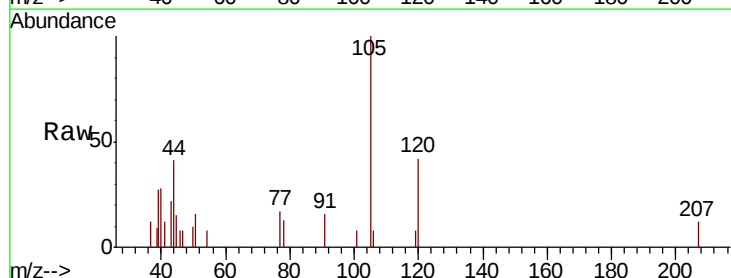
Acq: 2 Nov 2018 19:46

Tgt Ion: 105 Resp: 2803

Ion Ratio Lower Upper

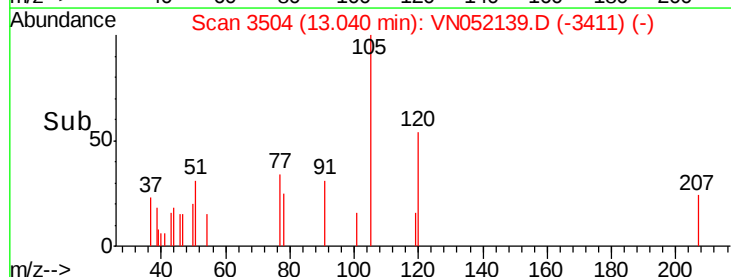
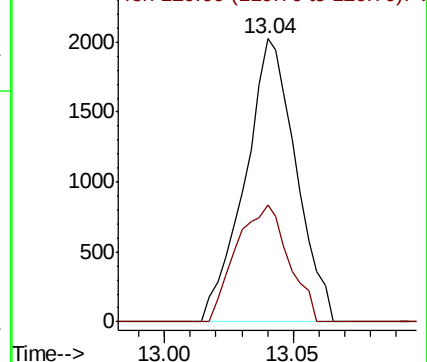
105 100

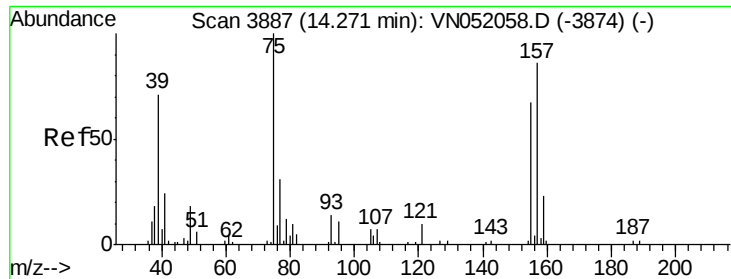
120 42.3 21.9 65.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.967 ug/l

RT: 14.18 min Scan# 3859

Delta R.T. -0.09 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

Instrument :

MSVOA_N

ClientSampled :

TP-10

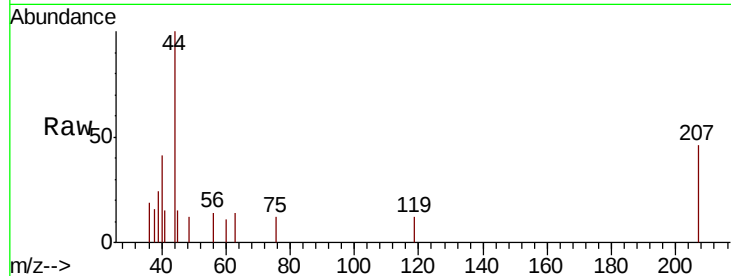
Tot Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

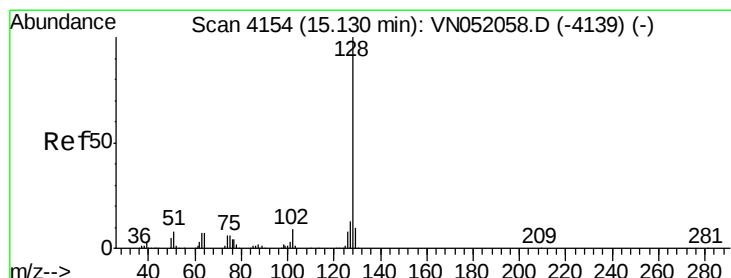
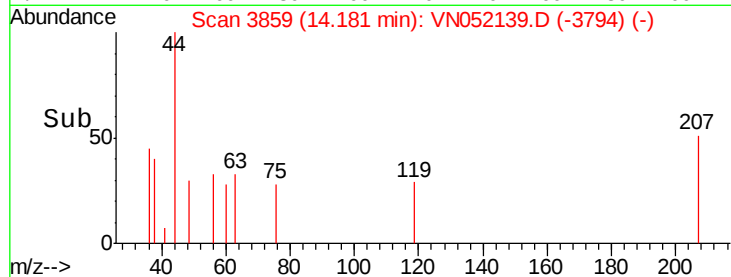
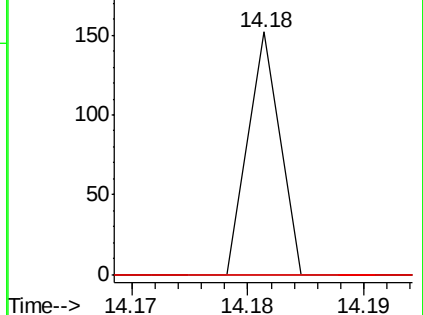
157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN052139.D (-3794) (-)

Ion 154.80 (154.50 to 155.50): VN052139.D (-3794) (-)

Ion 156.80 (156.50 to 157.50): VN052139.D (-3794) (-)



#95

Naphthalene

Concen: 6.145 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052139.D

Acq: 2 Nov 2018 19:46

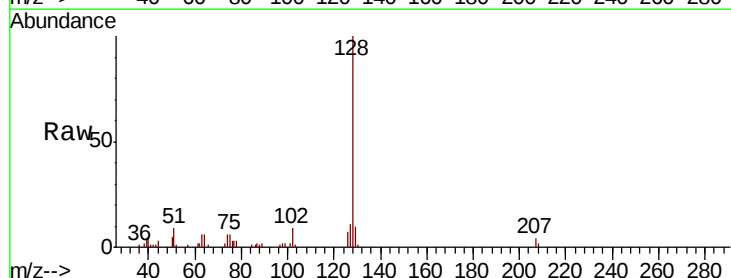
Tgt Ion: 128 Resp: 35360

Ion Ratio Lower Upper

128 100

127 6.6 10.5 15.7#

129 10.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VN052139.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN052139.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN052139.D (-4061) (-)

