

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
 Data File : VN051412.D
 Acq On : 23 Sep 2018 14:47
 Operator : MD\SY
 Sample : J4777-26
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-04-092018-A

Quant Time: Sep 24 06:46:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

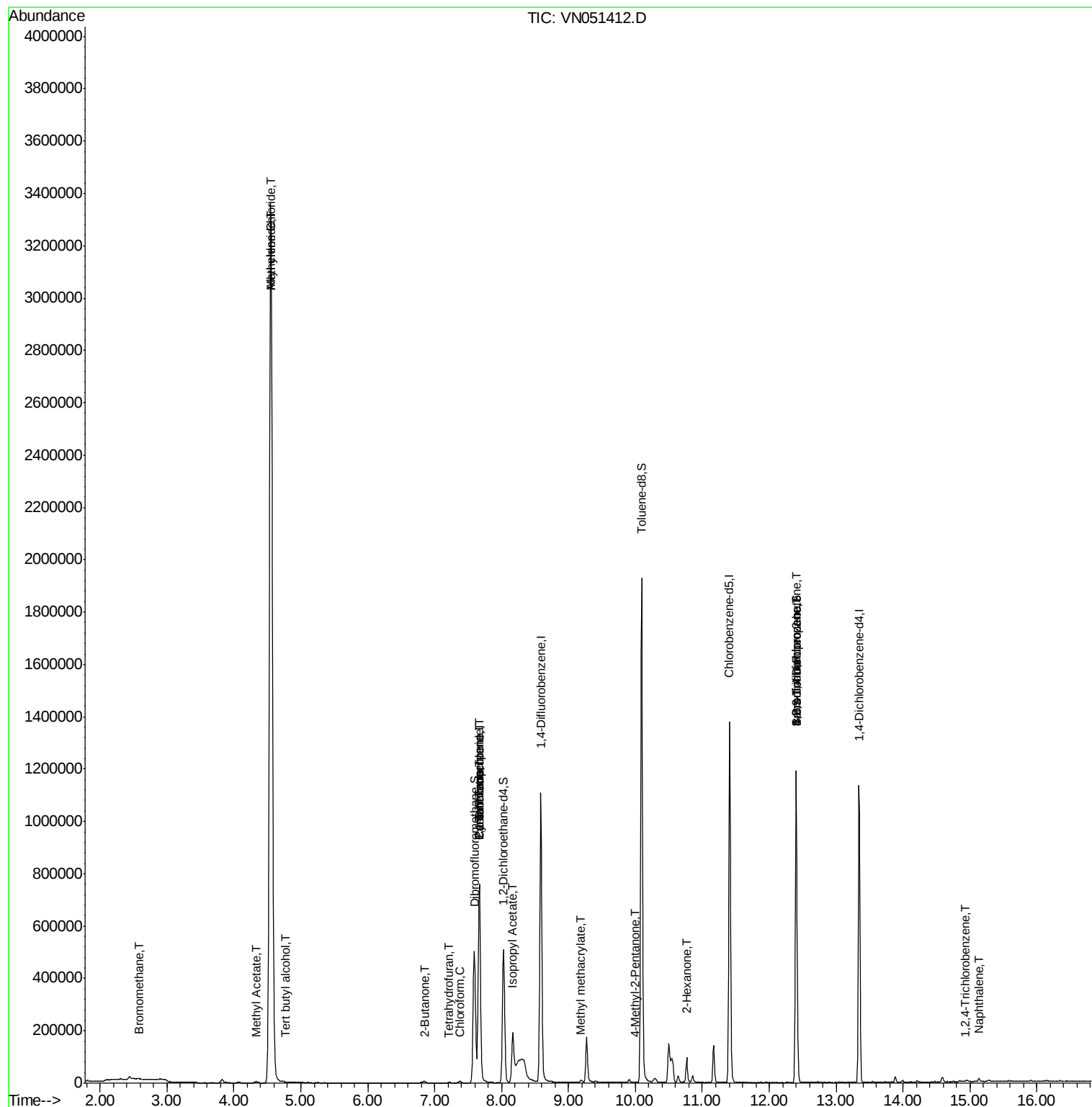
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	667029	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1024490	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	855934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	319604	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	441714	52.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.72%	
35) Dibromofluoromethane	7.59	113	388355	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	
50) Toluene-d8	10.09	98	1402123	45.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.90%	
62) 4-Bromofluorobenzene	12.40	95	393434	39.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.84%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	1784	0.331	ug/l	83
8) Diethyl Ether	3.42	74	1137	Below Cal		71
11) Tert butyl alcohol	4.78	59	97	0.206	ug/l #	78
14) Allyl chloride	4.55	41	101094	8.119	ug/l #	26
16) Acetone	3.82	43	20710	Below Cal		95
18) Methyl Acetate	4.33	43	9777	1.536	ug/l #	63
20) Methylene Chloride	4.55	84	2558127	309.387	ug/l	99
25) 2-Butanone	6.86	43	4219	1.475	ug/l #	88
29) Tetrahydrofuran	7.22	42	834	0.460	ug/l #	72
30) Chloroform	7.37	83	6705	0.471	ug/l	96
31) Cyclohexane	7.67	56	11747	0.893	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44480	3.749	ug/l #	43
38) Carbon Tetrachloride	7.67	117	59817	4.820	ug/l #	17
43) Isopropyl Acetate	8.17	43	241112	19.548	ug/l	94
48) Methyl methacrylate	9.18	41	6212	1.010	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	1528	0.225	ug/l #	74
59) 2-Hexanone	10.76	43	14334	3.260	ug/l #	58
71) Bromoform	12.40	173	1820	0.321	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	191102	36.019	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	191102	110.755	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	31	5.986	ug/l #	2
95) Naphthalene	15.13	128	10916	8.815	ug/l	97

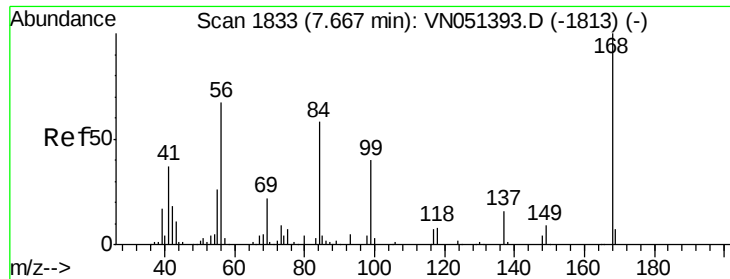
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051412.D

Acq: 23 Sep 2018 14:47

Instrument :

MSVOA_N

ClientSampleId :

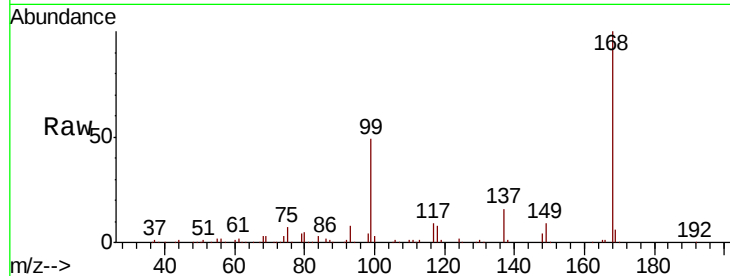
PL-04-092018-A

Tgt Ion:168 Resp: 667029

Ion Ratio Lower Upper

168 100

99 49.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

250000

200000

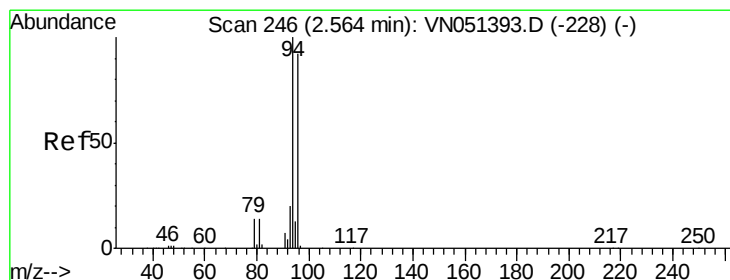
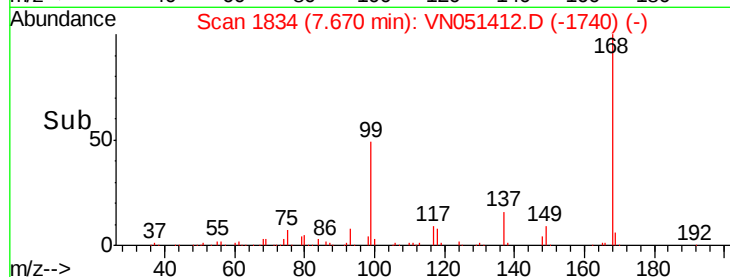
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.331 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051412.D

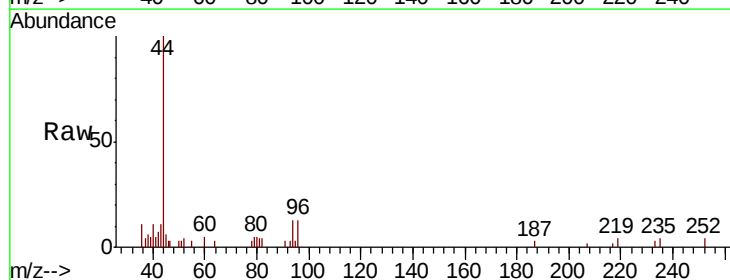
Acq: 23 Sep 2018 14:47

Tgt Ion: 94 Resp: 1784

Ion Ratio Lower Upper

94 100

96 75.4 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

800

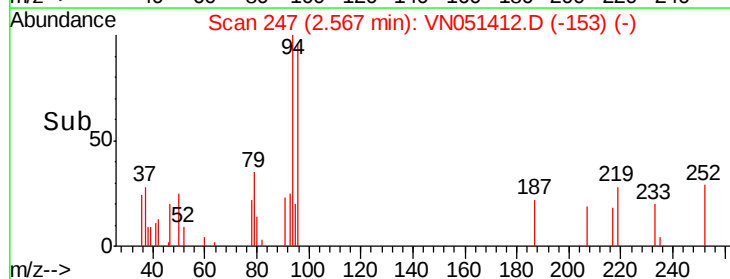
600

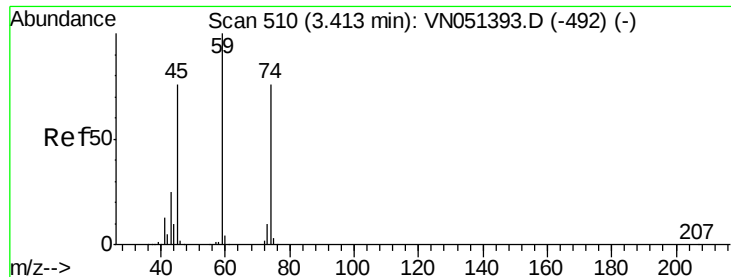
400

200

0

Time--> 2.55 2.60





#8

Diethyl Ether

Concen: Below Cal

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN051412.D

Acq: 23 Sep 2018 14:47

Instrument :

MSVOA_N

ClientSampleId :

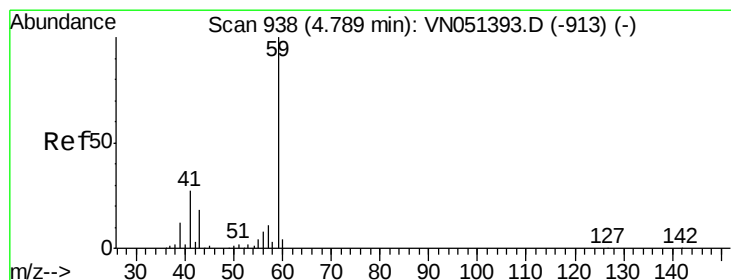
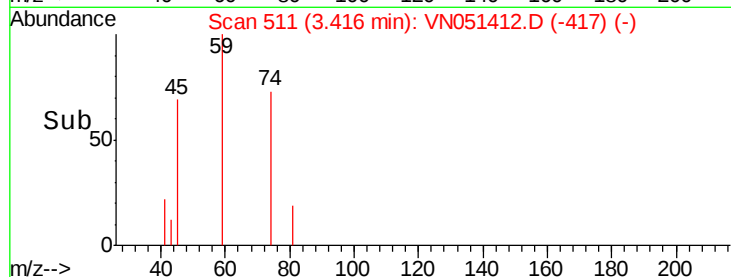
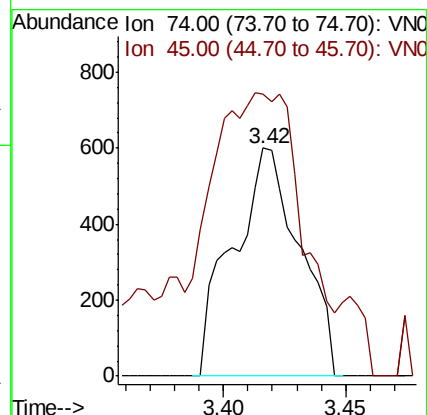
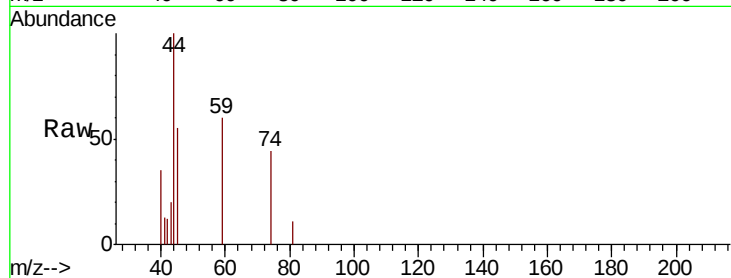
PL-04-092018-A

Tgt Ion: 74 Resp: 1137

Ion Ratio Lower Upper

74 100

45 129.1 50.2 150.7



#11

Tert butyl alcohol

Concen: 0.206 ug/l

RT: 4.78 min Scan# 936

Delta R.T. -0.01 min

Lab File: VN051412.D

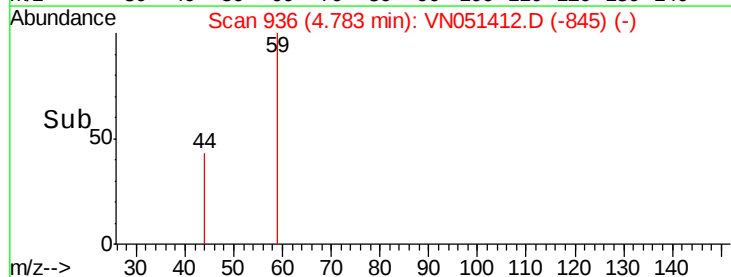
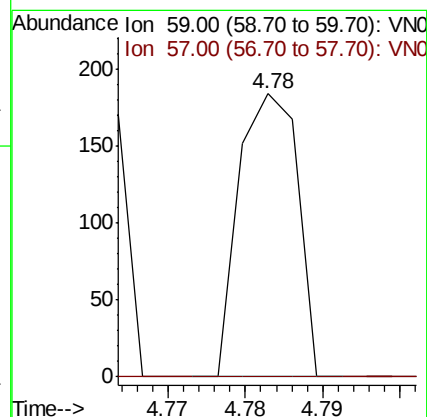
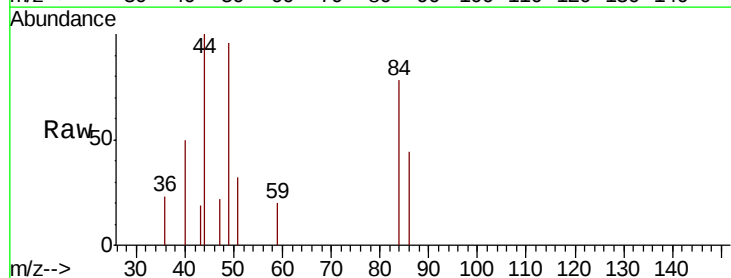
Acq: 23 Sep 2018 14:47

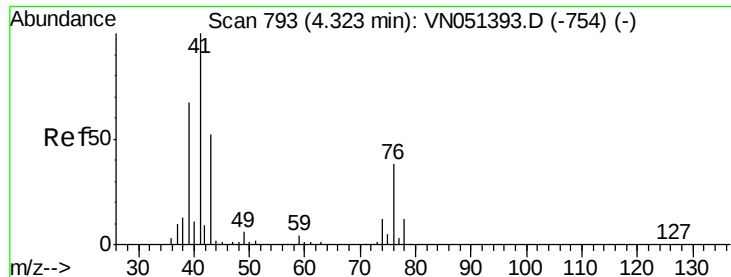
Tgt Ion: 59 Resp: 97

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#





#14

Allyl chloride

Concen: 8.119 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.23 min

Lab File: VN051412.D

Acq: 23 Sep 2018 14:47

Instrument :

MSVOA_N

ClientSampleId :

PL-04-092018-A

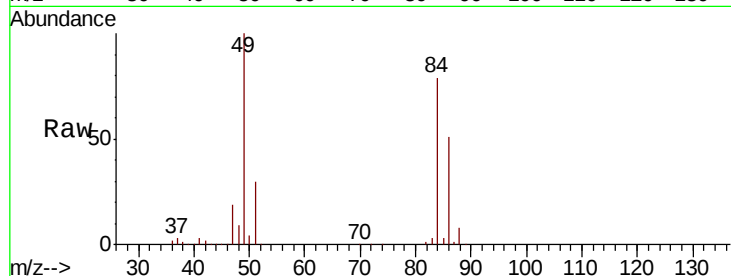
Tgt Ion: 41 Resp: 101094

Ion Ratio Lower Upper

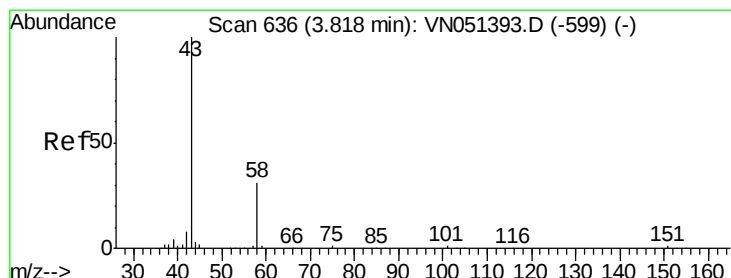
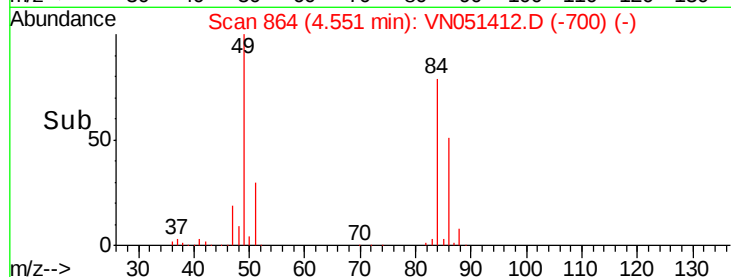
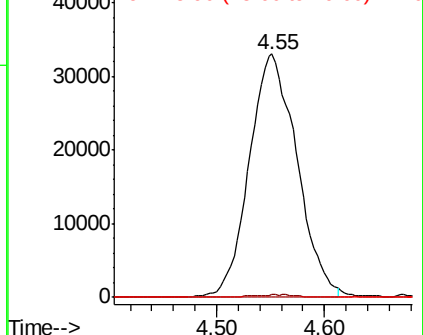
41 100

39 0.1 51.4 77.2#

76 0.0 28.1 42.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051412.D

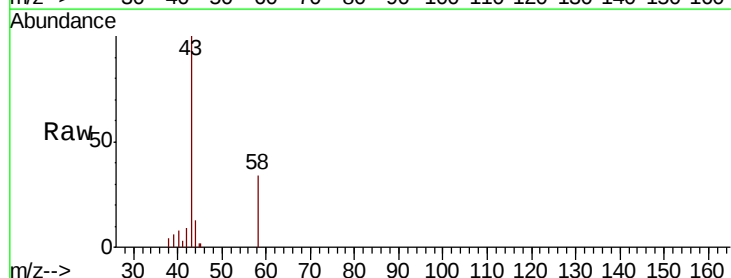
Acq: 23 Sep 2018 14:47

Tgt Ion: 43 Resp: 20710

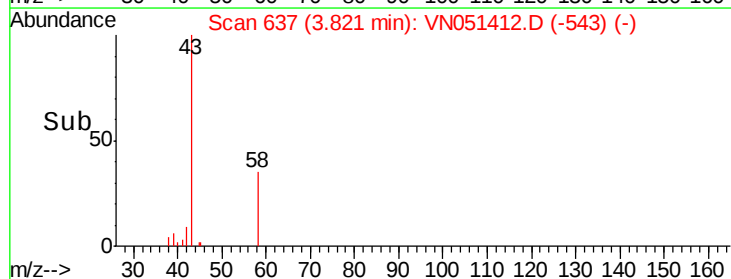
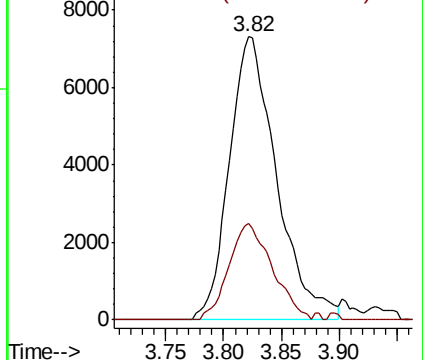
Ion Ratio Lower Upper

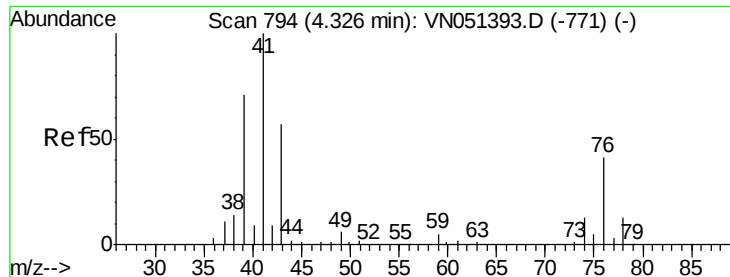
43 100

58 34.0 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

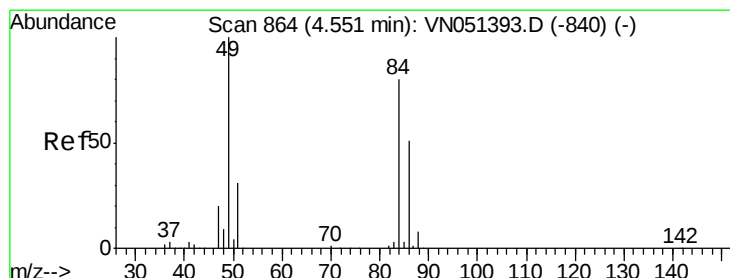
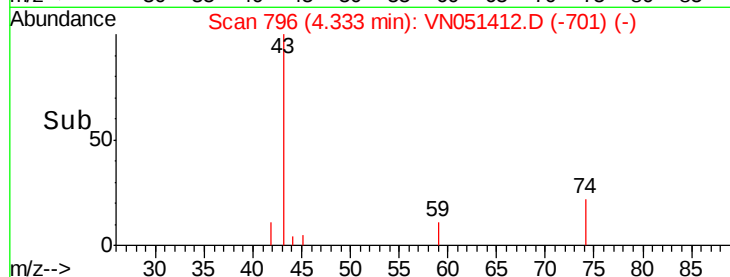
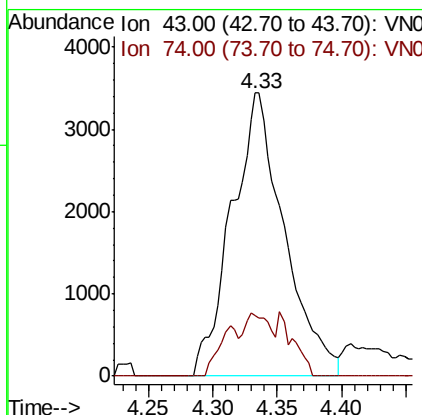
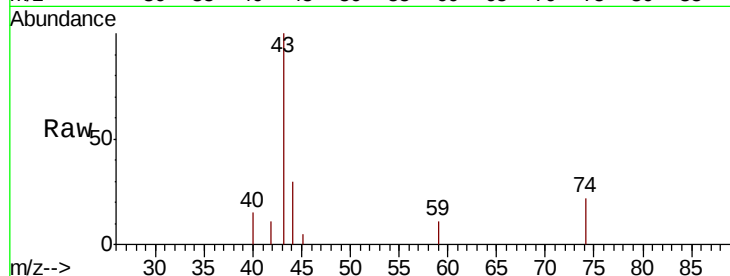




#18
Methyl Acetate
Concen: 1.536 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051412.D
Acq: 23 Sep 2018 14:47

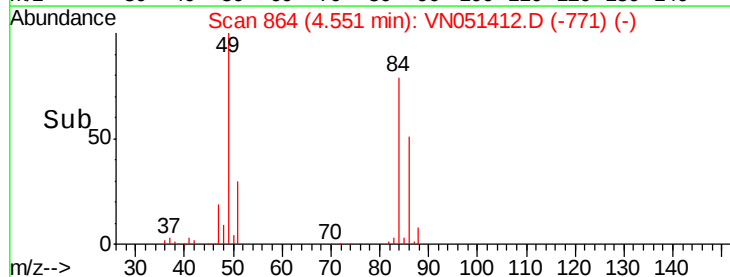
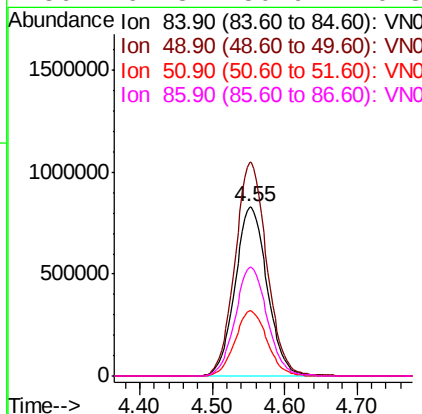
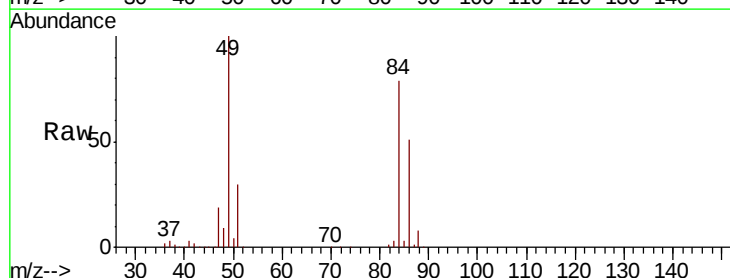
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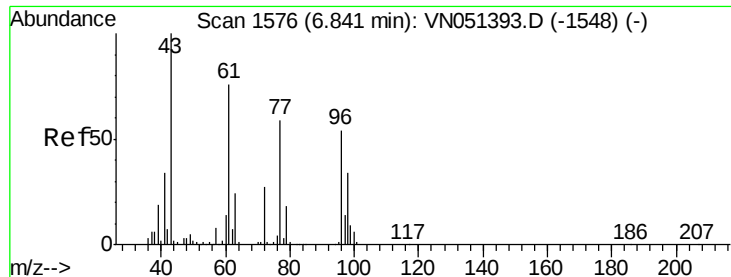
Tgt Ion: 43 Resp: 9777
Ion Ratio Lower Upper
43 100
74 5.2 18.8 28.2#



#20
Methylene Chloride
Concen: 309.387 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051412.D
Acq: 23 Sep 2018 14:47

Tgt Ion: 84 Resp: 2558127
Ion Ratio Lower Upper
84 100
49 126.2 99.9 149.9
51 38.3 31.4 47.2
86 64.3 50.9 76.3

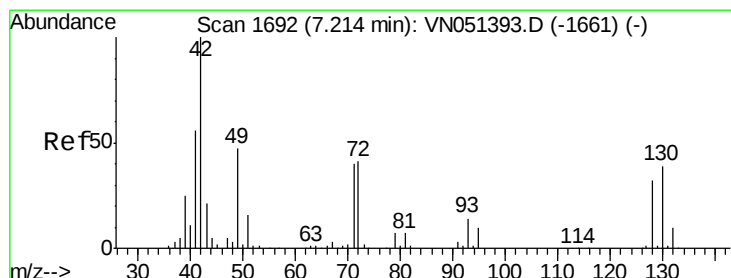
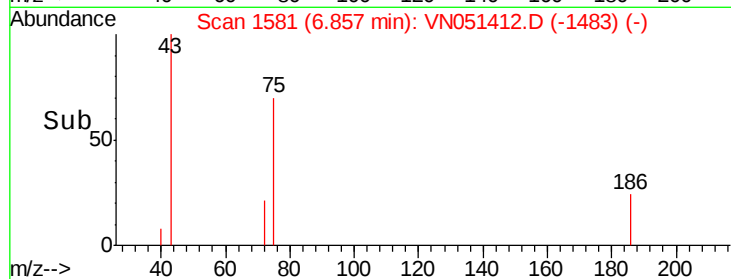
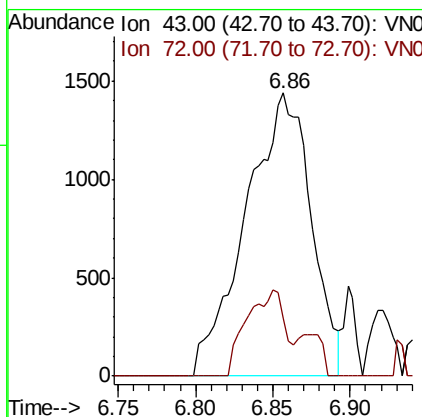
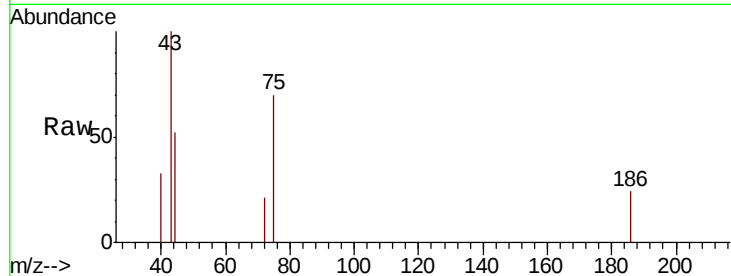




#25
 2-Butanone
 Concen: 1.475 ug/l
 RT: 6.86 min Scan# 1581
 Delta R.T. 0.02 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

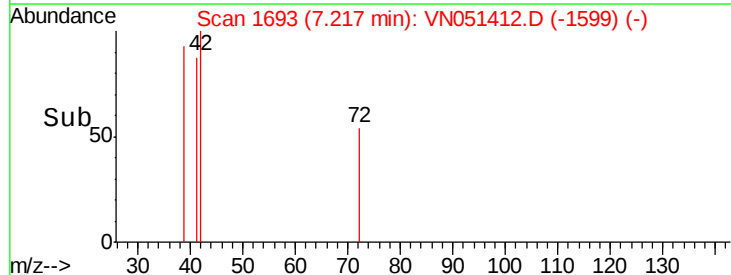
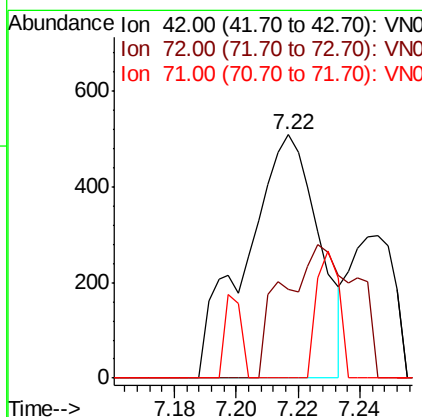
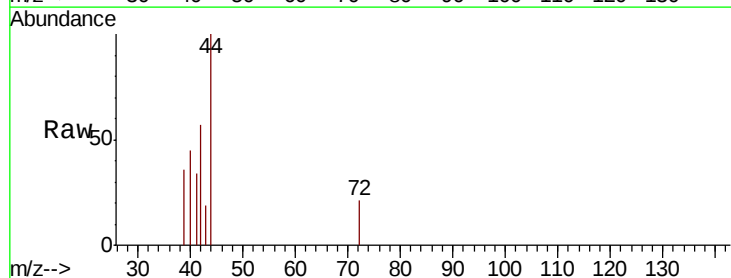
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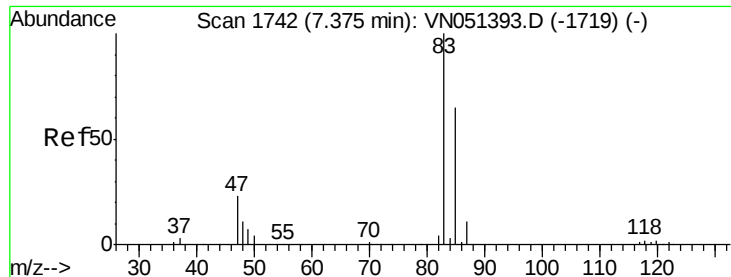
Tgt Ion: 43 Resp: 4219
 Ion Ratio Lower Upper
 43 100
 72 20.7 21.8 32.6#



#29
 Tetrahydrofuran
 Concen: 0.460 ug/l
 RT: 7.22 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

Tgt Ion: 42 Resp: 834
 Ion Ratio Lower Upper
 42 100
 72 54.3 34.3 51.5#
 71 15.8 32.2 48.4#

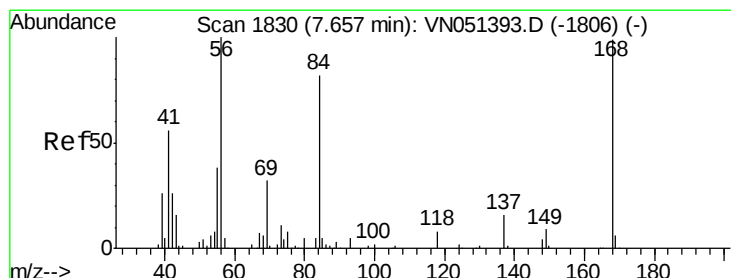
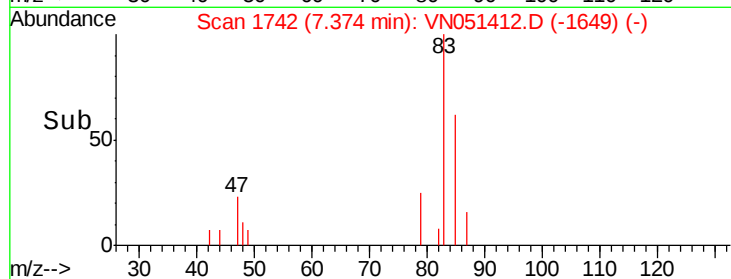
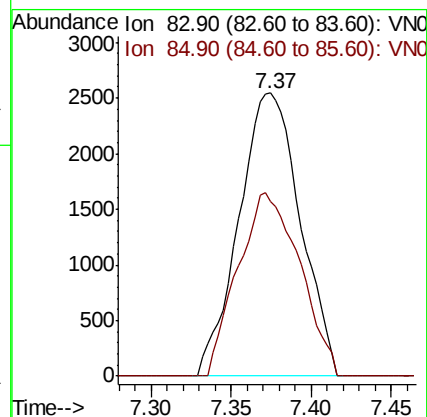
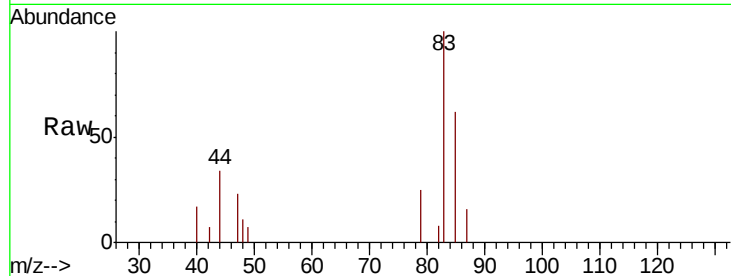




#30
Chloroform
Concen: 0.471 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN051412.D
Acq: 23 Sep 2018 14:47

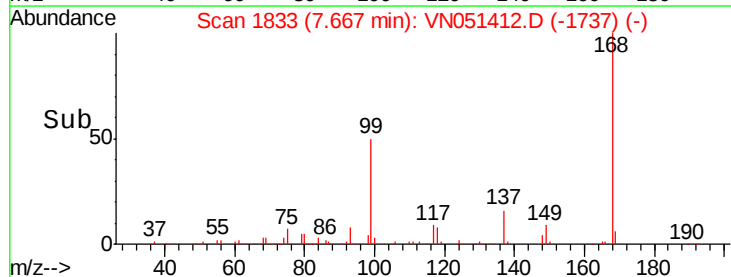
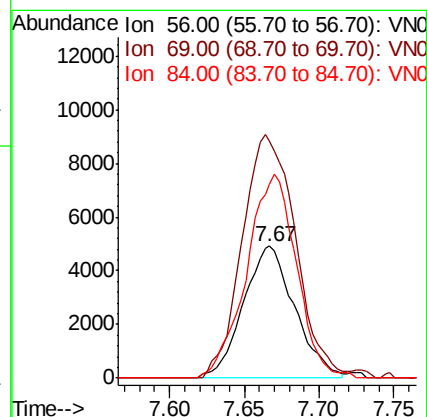
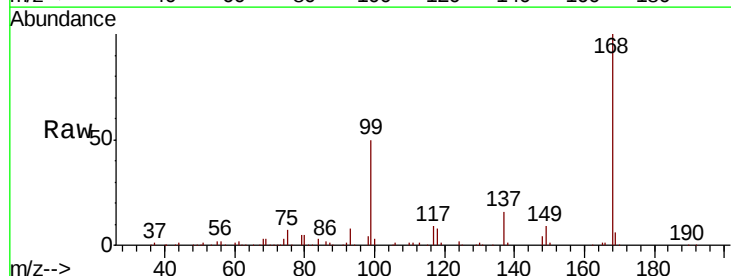
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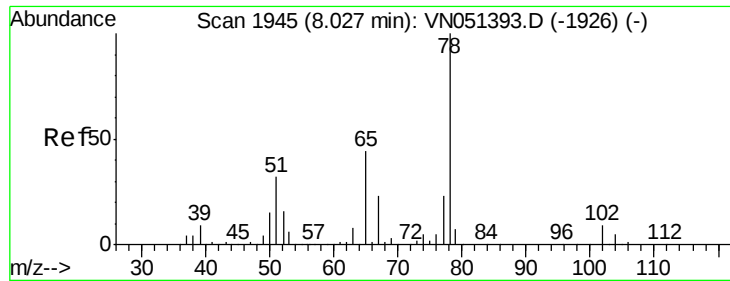
Tgt Ion: 83 Resp: 6705
Ion Ratio Lower Upper
83 100
85 61.8 51.8 77.6



#31
Cyclohexane
Concen: 0.893 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051412.D
Acq: 23 Sep 2018 14:47

Tgt Ion: 56 Resp: 11747
Ion Ratio Lower Upper
56 100
69 180.1 25.8 38.6#
84 147.1 66.0 99.0#

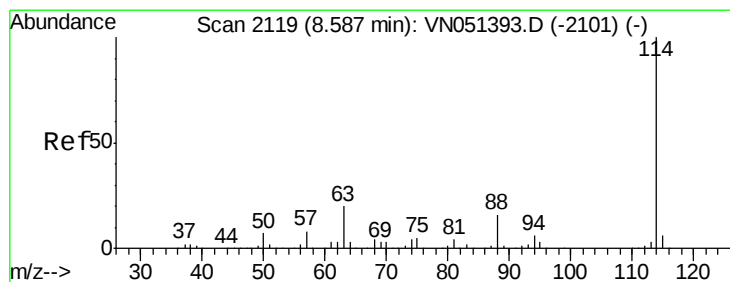
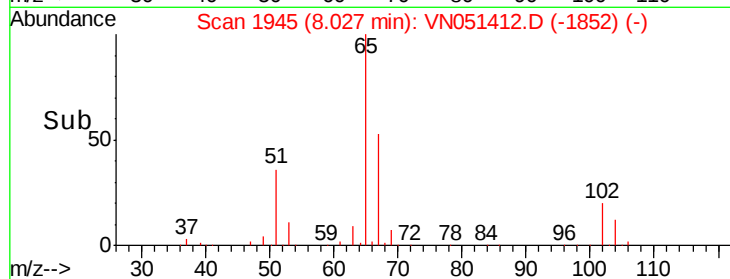
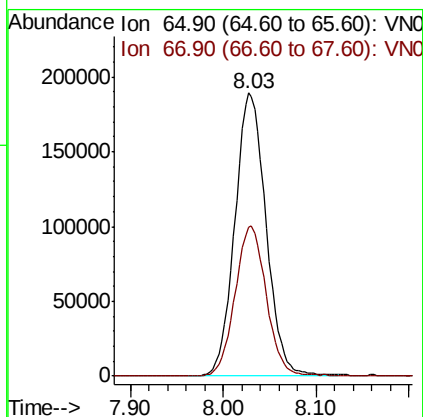
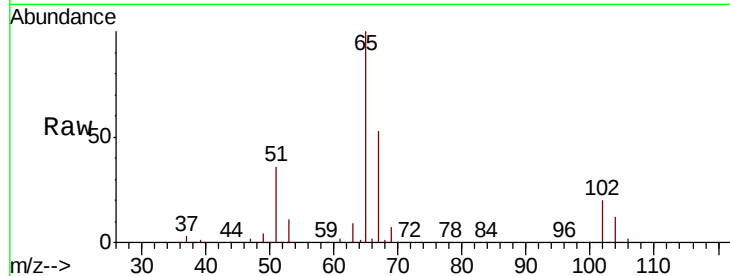




#33
 1,2-Dichloroethane-d4
 Concen: 52.863 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

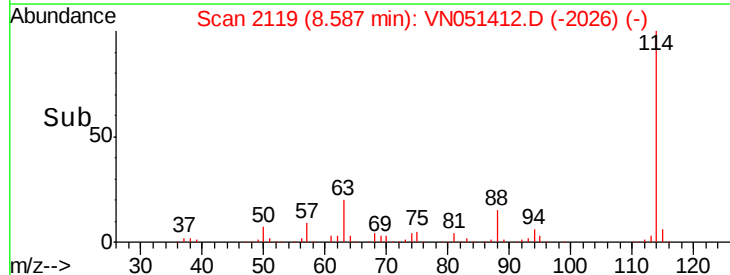
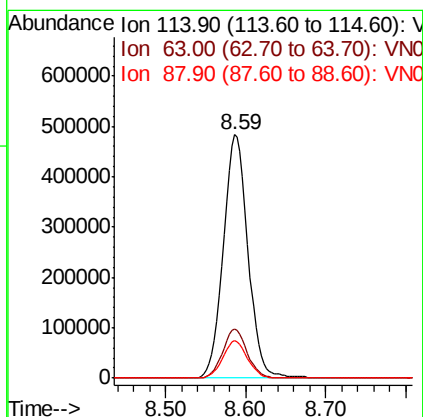
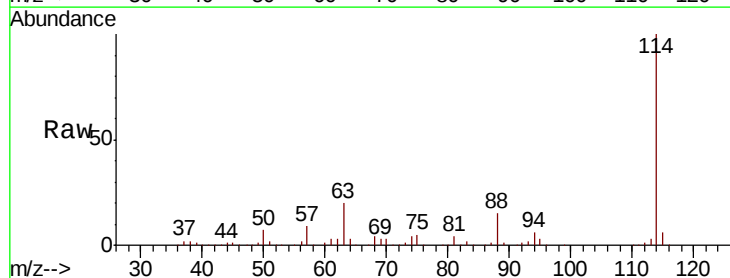
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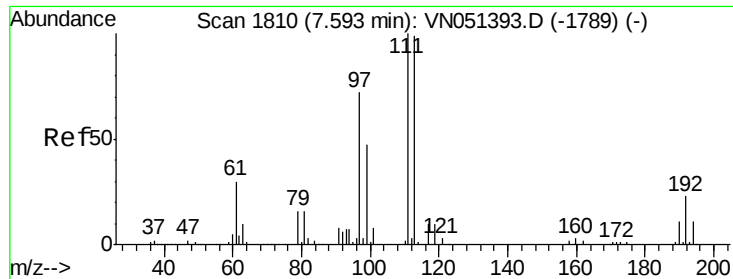
Tgt Ion: 65 Resp: 441714
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

Tgt Ion: 114 Resp: 1024490
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.2
 88 15.5 0.0 31.4

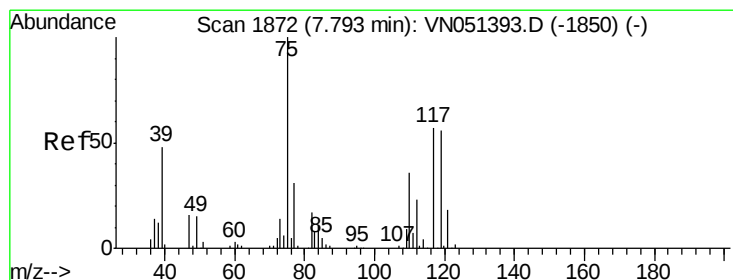
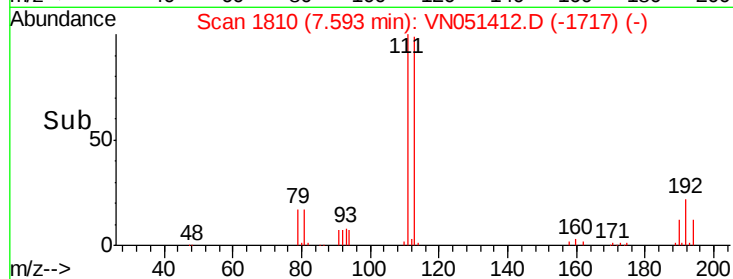
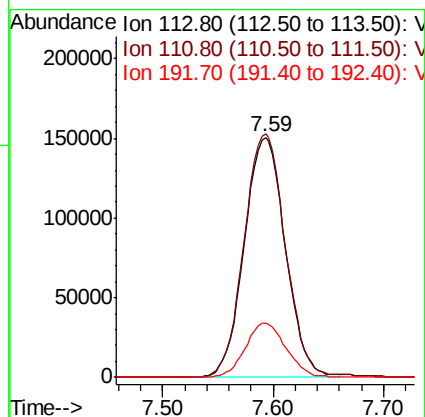
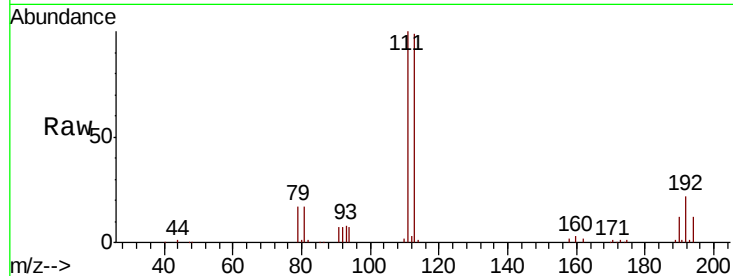




#35
 Dibromofluoromethane
 Concen: 47.404 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

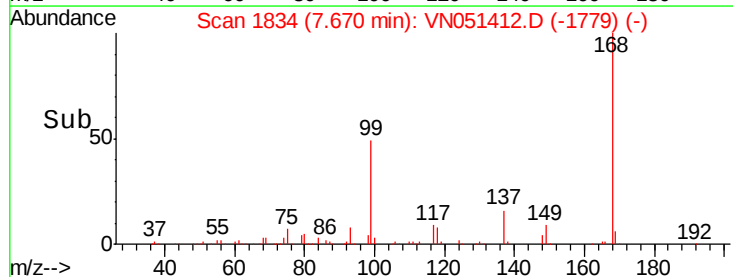
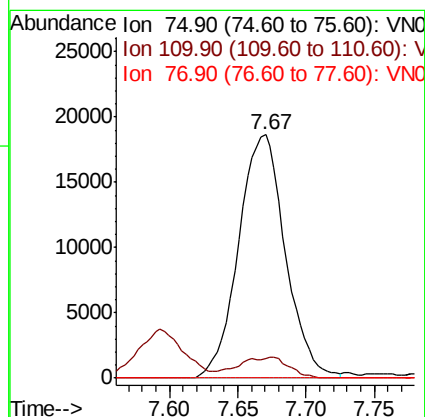
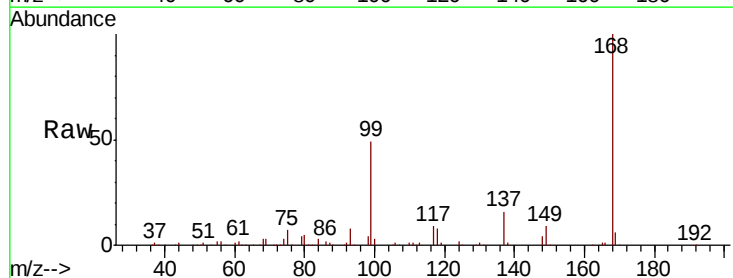
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-04-092018-A

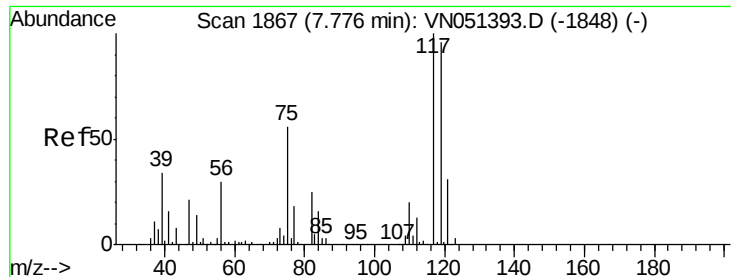
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	22.5	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.749 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	2.5	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.820 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051412.D

Acq: 23 Sep 2018 14:47

Instrument :

MSVOA_N

ClientSampleId :

PL-04-092018-A

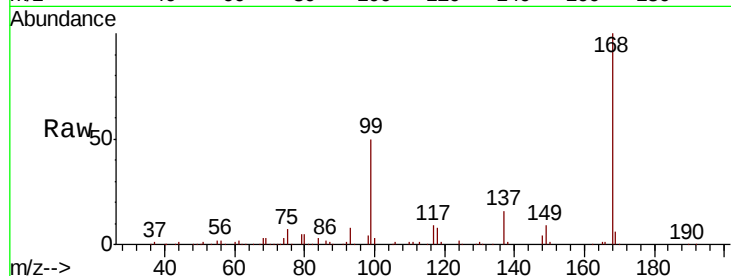
Tgt Ion:117 Resp: 59817

Ion Ratio Lower Upper

117 100

119 6.1 76.9 115.3#

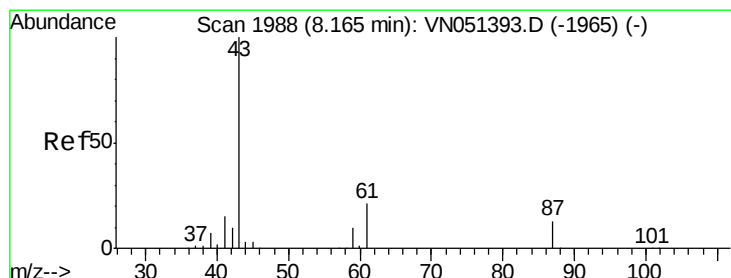
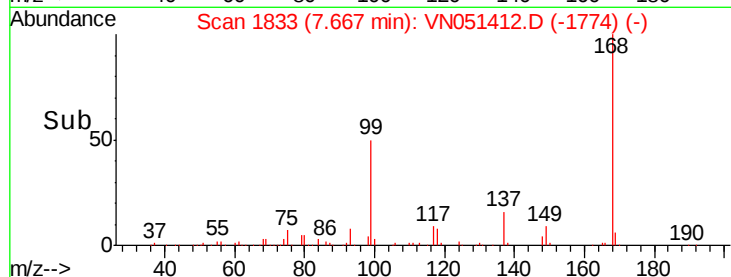
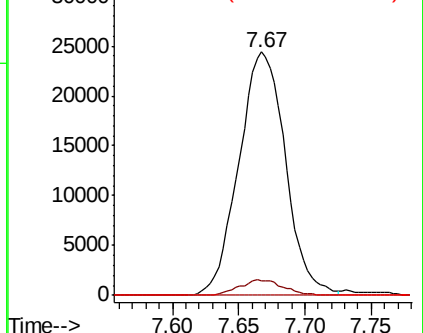
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 19.548 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051412.D

Acq: 23 Sep 2018 14:47

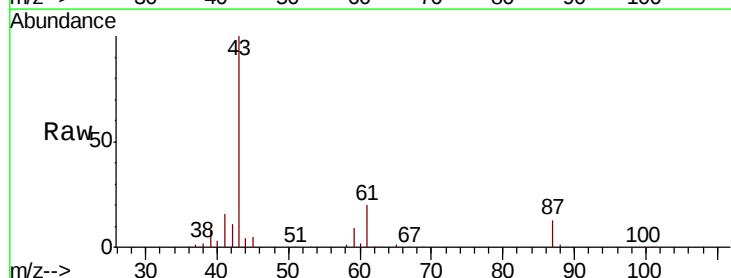
Tgt Ion: 43 Resp: 241112

Ion Ratio Lower Upper

43 100

61 18.2 16.8 25.2

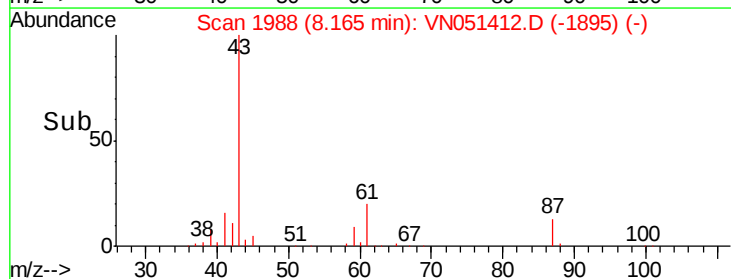
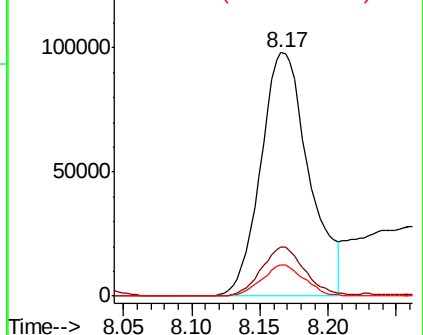
87 11.4 10.7 16.1

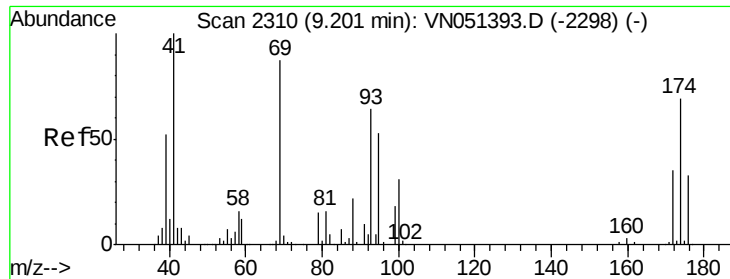


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

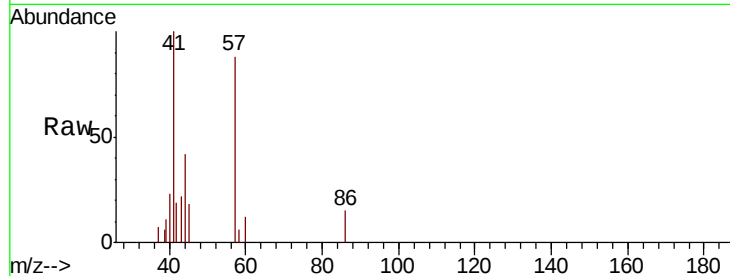




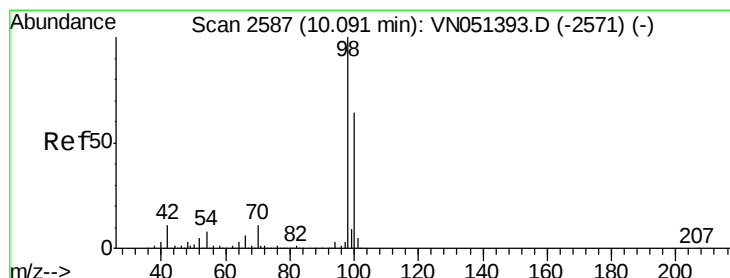
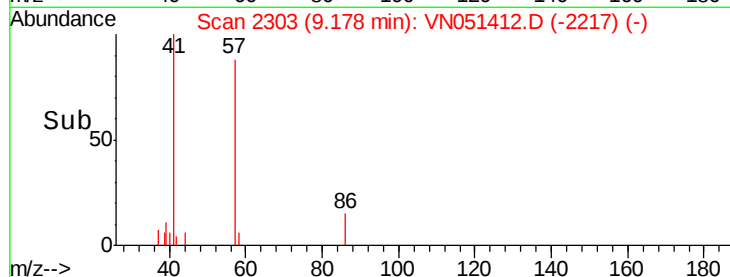
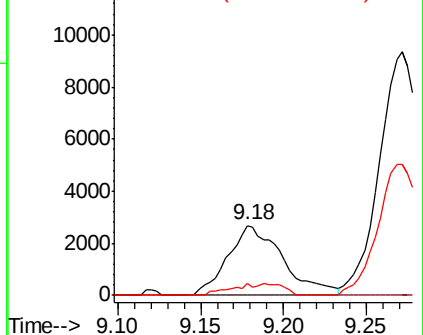
#48
Methyl methacrylate
Concen: 1.010 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051412.D
Acq: 23 Sep 2018 14:47

Instrument :
MSVOA_N
ClientSampleId :
PL-04-092018-A

Tgt Ion: 41 Resp: 6212
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 7.4 43.8 65.8#

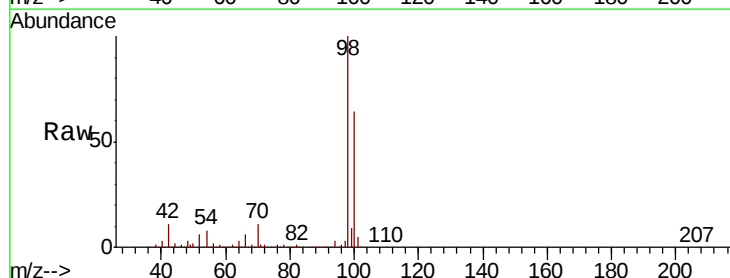


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

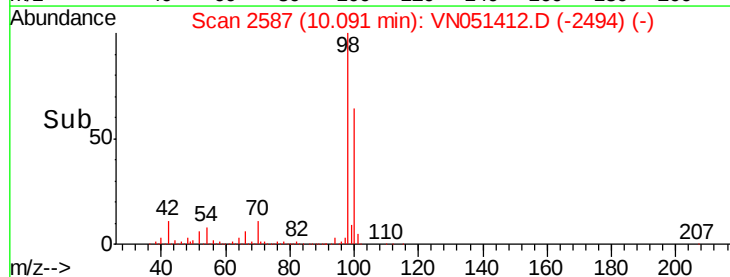
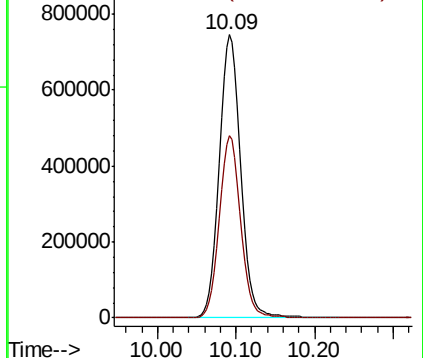


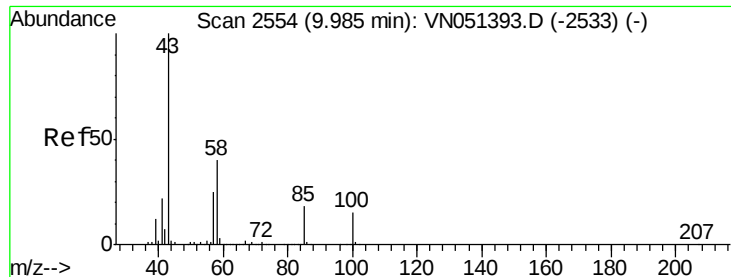
#50
Toluene-d8
Concen: 45.450 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051412.D
Acq: 23 Sep 2018 14:47

Tgt Ion: 98 Resp: 1402123
Ion Ratio Lower Upper
98 100
100 63.9 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

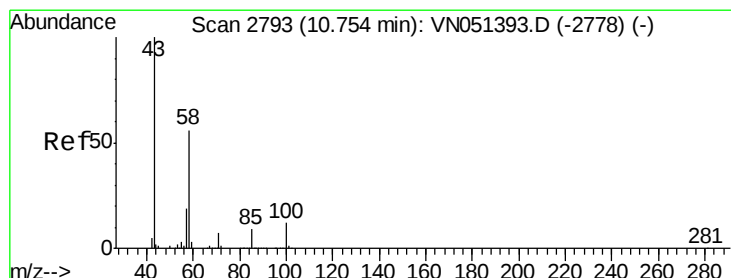
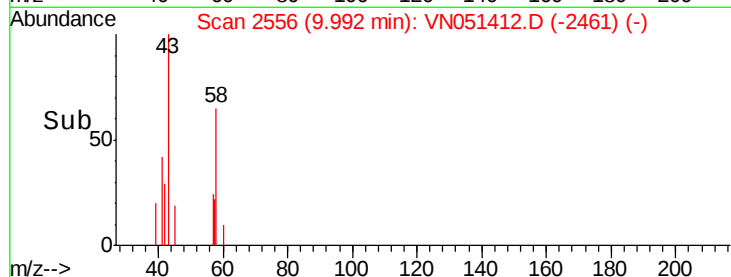
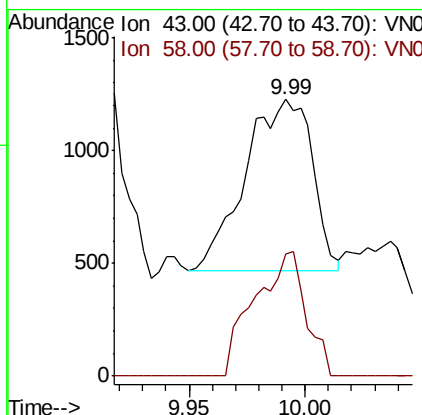
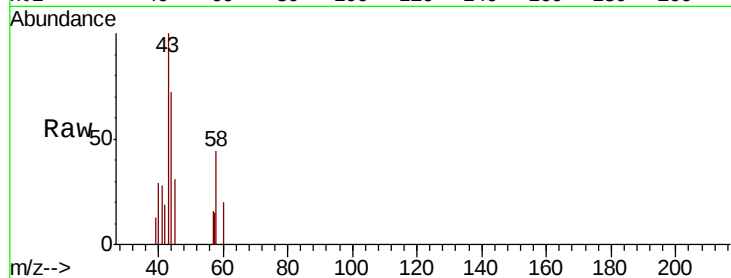




#51
 4-Methyl-2-Pentanone
 Concen: 0.225 ug/l
 RT: 9.99 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

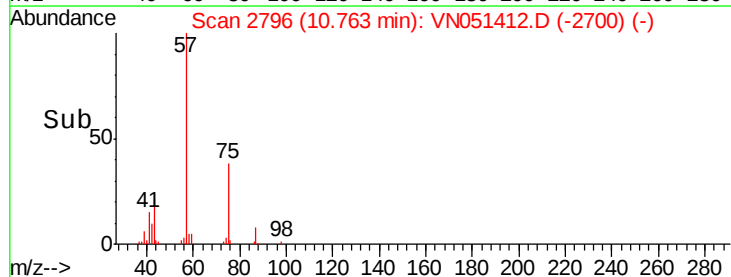
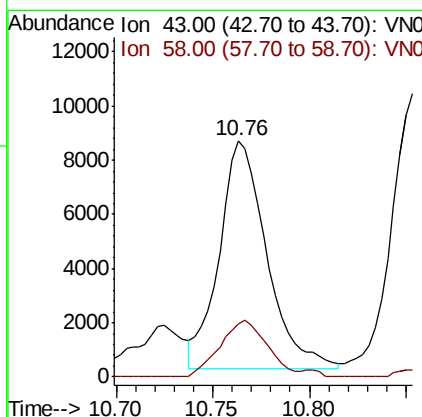
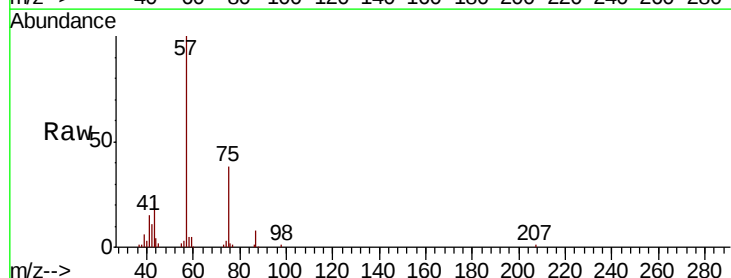
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-04-092018-A

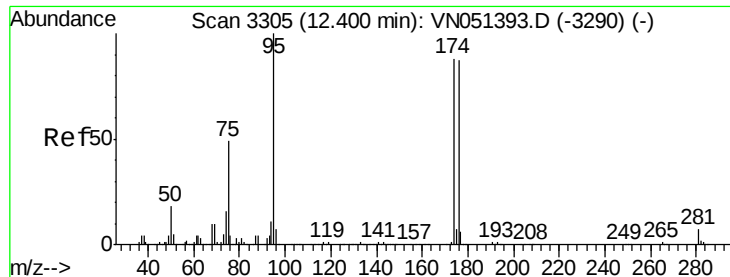
Tgt Ion: 43 Resp: 1528
 Ion Ratio Lower Upper
 43 100
 58 55.2 31.5 47.3#



#59
 2-Hexanone
 Concen: 3.260 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

Tgt Ion: 43 Resp: 14334
 Ion Ratio Lower Upper
 43 100
 58 24.8 27.7 83.0#

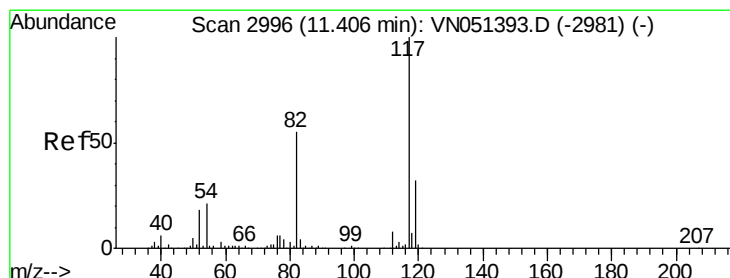
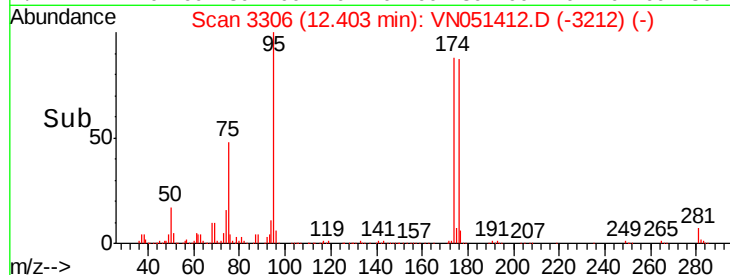
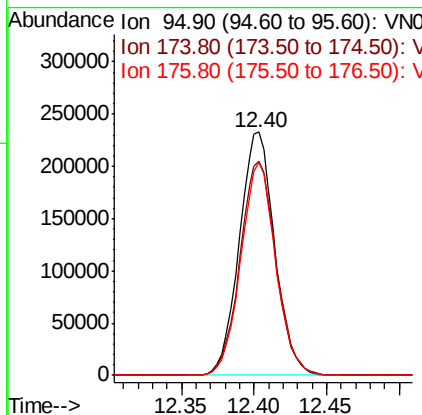
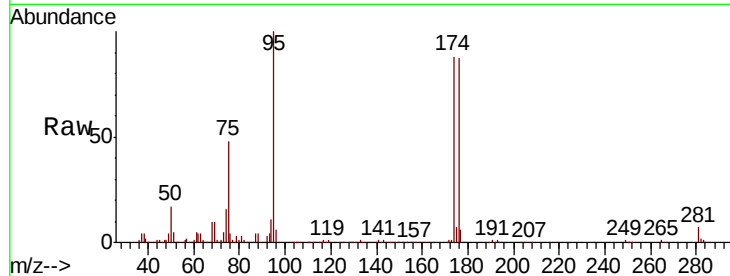




#62
4-Bromofluorobenzene
Concen: 39.423 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051412.D
Acq: 23 Sep 2018 14:47

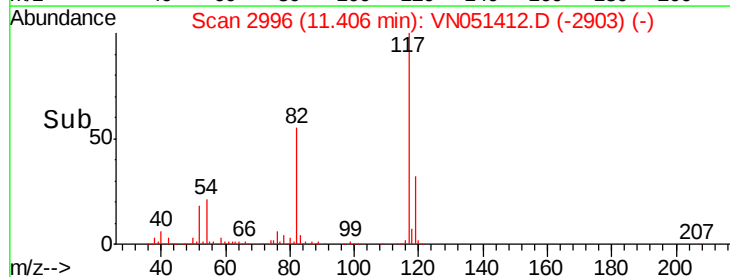
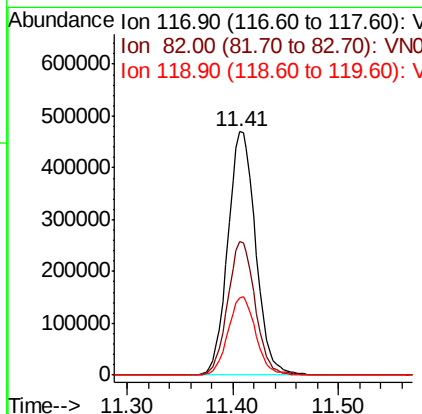
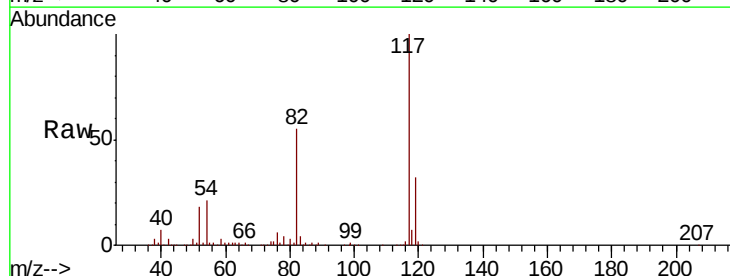
Instrument :
MSVOA_N
ClientSampleId :
PL-04-092018-A

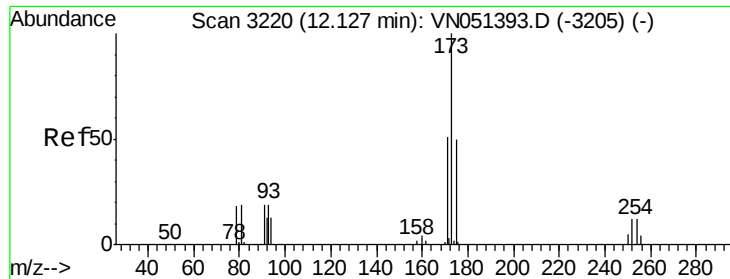
Tgt Ion: 95 Resp: 393434
Ion Ratio Lower Upper
95 100
174 90.2 0.0 181.6
176 86.6 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051412.D
Acq: 23 Sep 2018 14:47

Tgt Ion: 117 Resp: 855934
Ion Ratio Lower Upper
117 100
82 54.7 44.2 66.2
119 32.0 25.9 38.9





#71

Bromoform

Concen: 0.321 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051412.D

Acq: 23 Sep 2018 14:47

Instrument :

MSVOA_N

ClientSampleId :

PL-04-092018-A

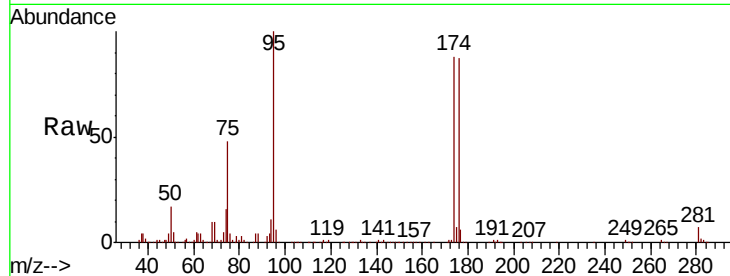
Tgt Ion:173 Resp: 1820

Ion Ratio Lower Upper

173 100

175 1227.7 24.8 74.3#

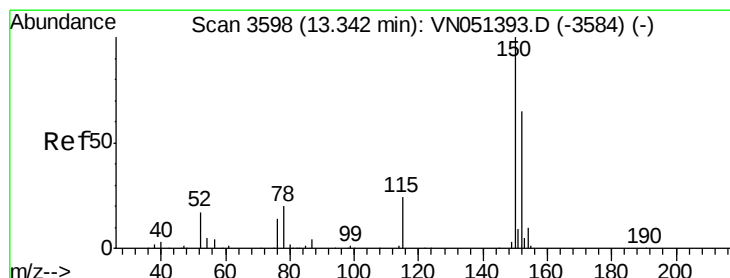
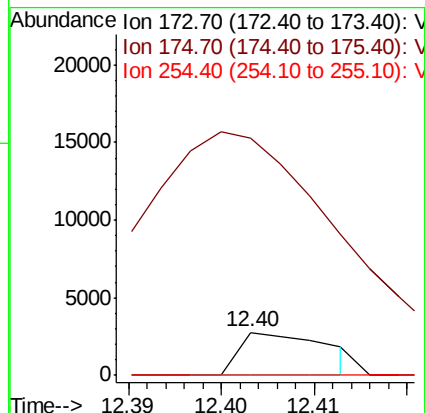
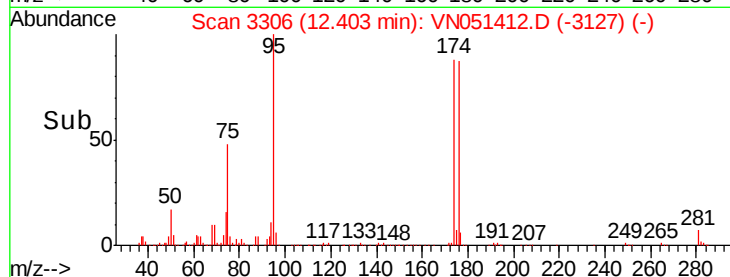
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051412.D

Acq: 23 Sep 2018 14:47

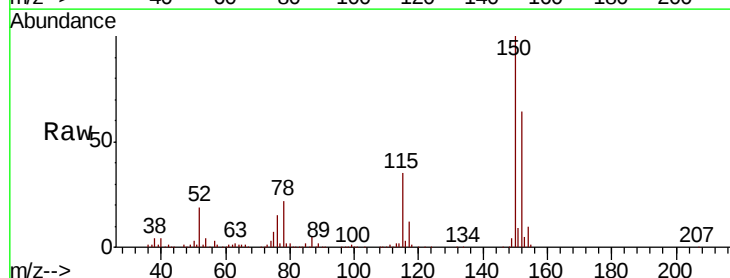
Tgt Ion:152 Resp: 319604

Ion Ratio Lower Upper

152 100

115 55.8 28.3 84.9

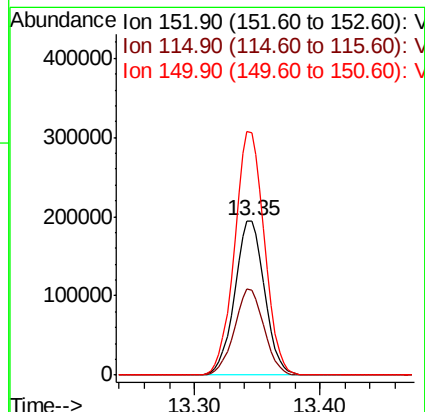
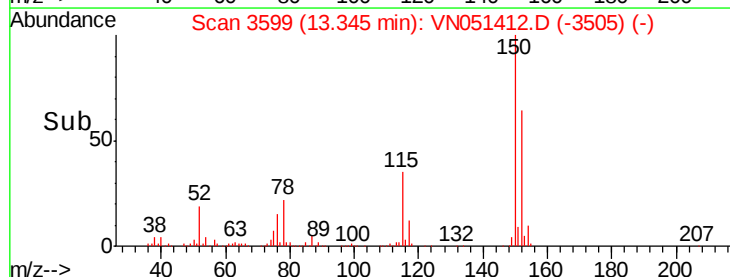
150 158.3 0.0 353.6

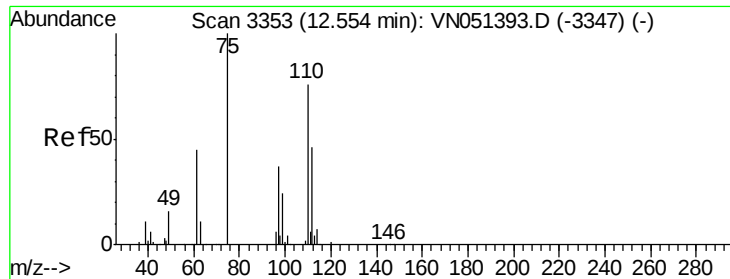


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.019 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051412.D

Acq: 23 Sep 2018 14:47

Instrument :

MSVOA_N

ClientSampleId :

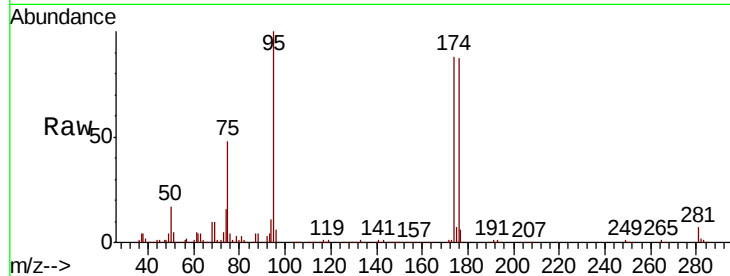
PL-04-092018-A

Tgt Ion: 75 Resp: 191102

Ion Ratio Lower Upper

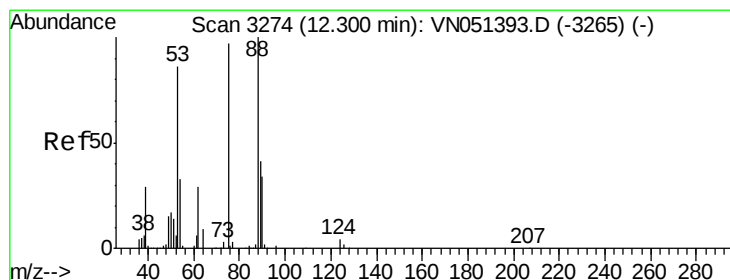
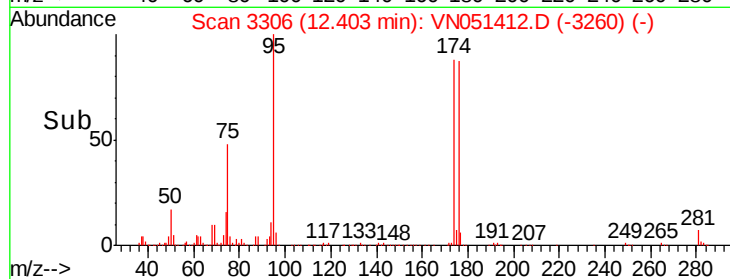
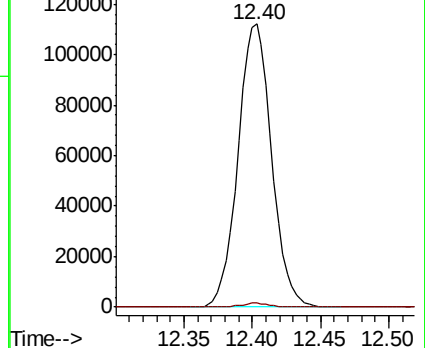
75 100

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: 110.755 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051412.D

Acq: 23 Sep 2018 14:47

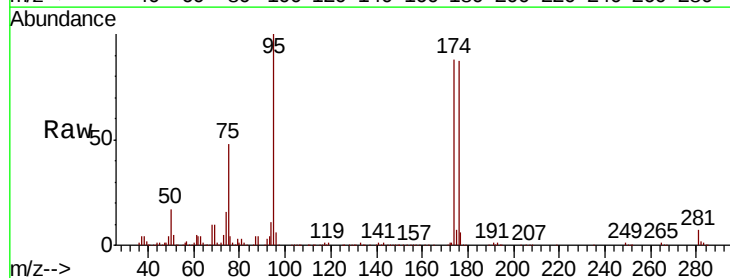
Tgt Ion: 75 Resp: 191102

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

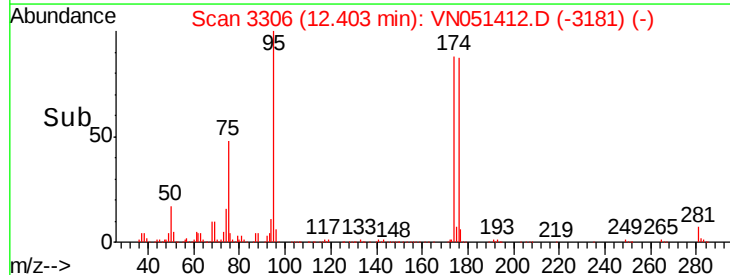
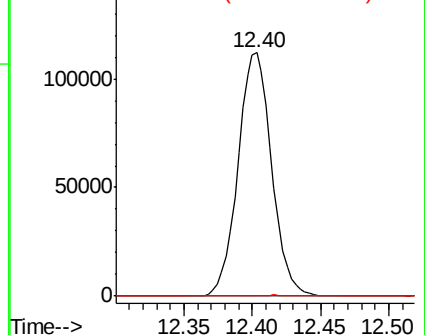
89 0.2 36.7 55.1#

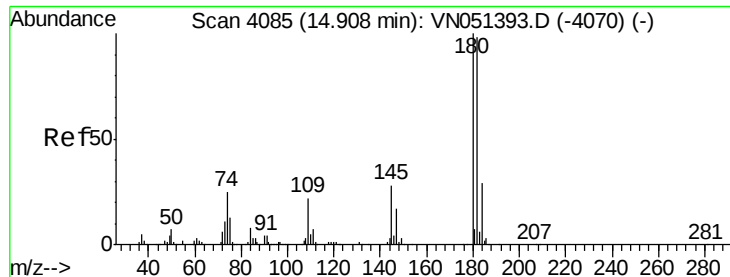


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

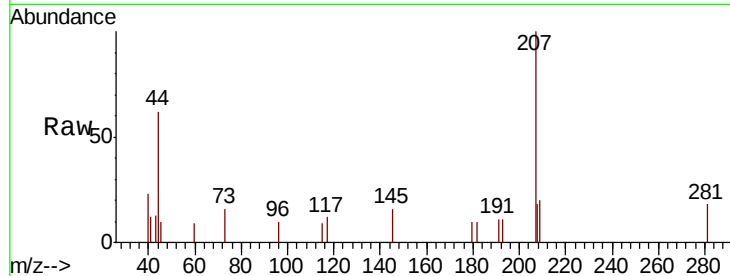




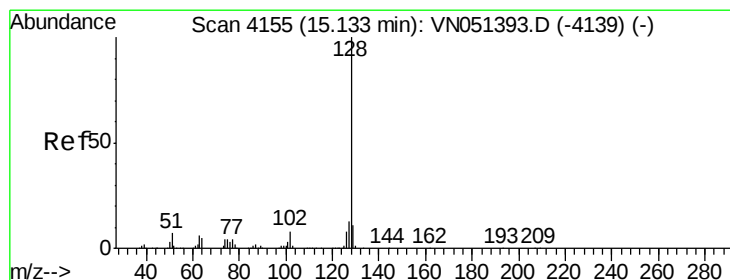
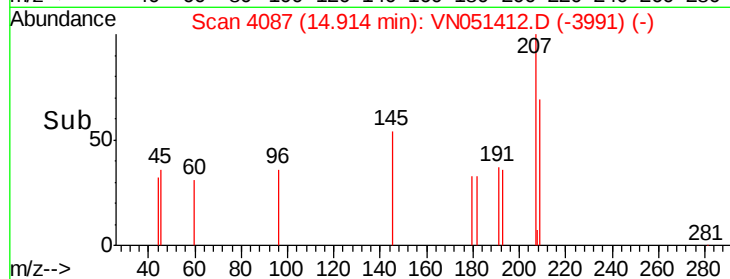
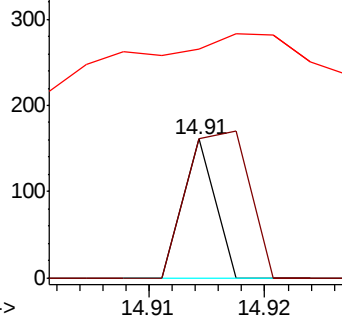
#93
 1,2,4-Trichlorobenzene
 Concen: 5.986 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-04-092018-A

Tgt Ion:180 Resp: 31
 Ion Ratio Lower Upper
 180 100
 182 206.5 48.5 145.6#
 145 0.0 14.1 42.4#

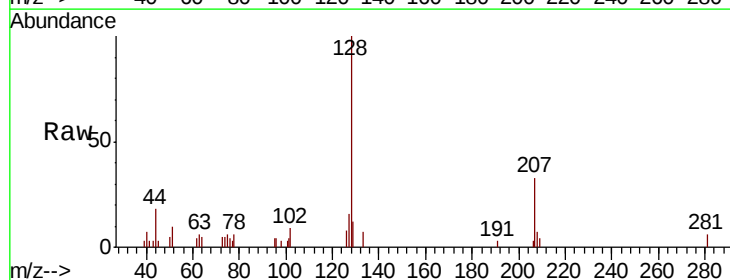


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 8.815 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051412.D
 Acq: 23 Sep 2018 14:47

Tgt Ion:128 Resp: 10916
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.5 15.7
 129 11.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

