

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
 Data File : VN051408.D
 Acq On : 23 Sep 2018 13:09
 Operator : MD\SY
 Sample : J4777-18
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-D

Quant Time: Sep 24 06:45:39 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	668748	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1036382	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	868002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	317620	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	440977	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	
35) Dibromofluoromethane	7.59	113	392895	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
50) Toluene-d8	10.09	98	1451085	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	
62) 4-Bromofluorobenzene	12.40	95	390085	38.64	ug/l	0.00
Spiked Amount			Recovery	=	77.28%	

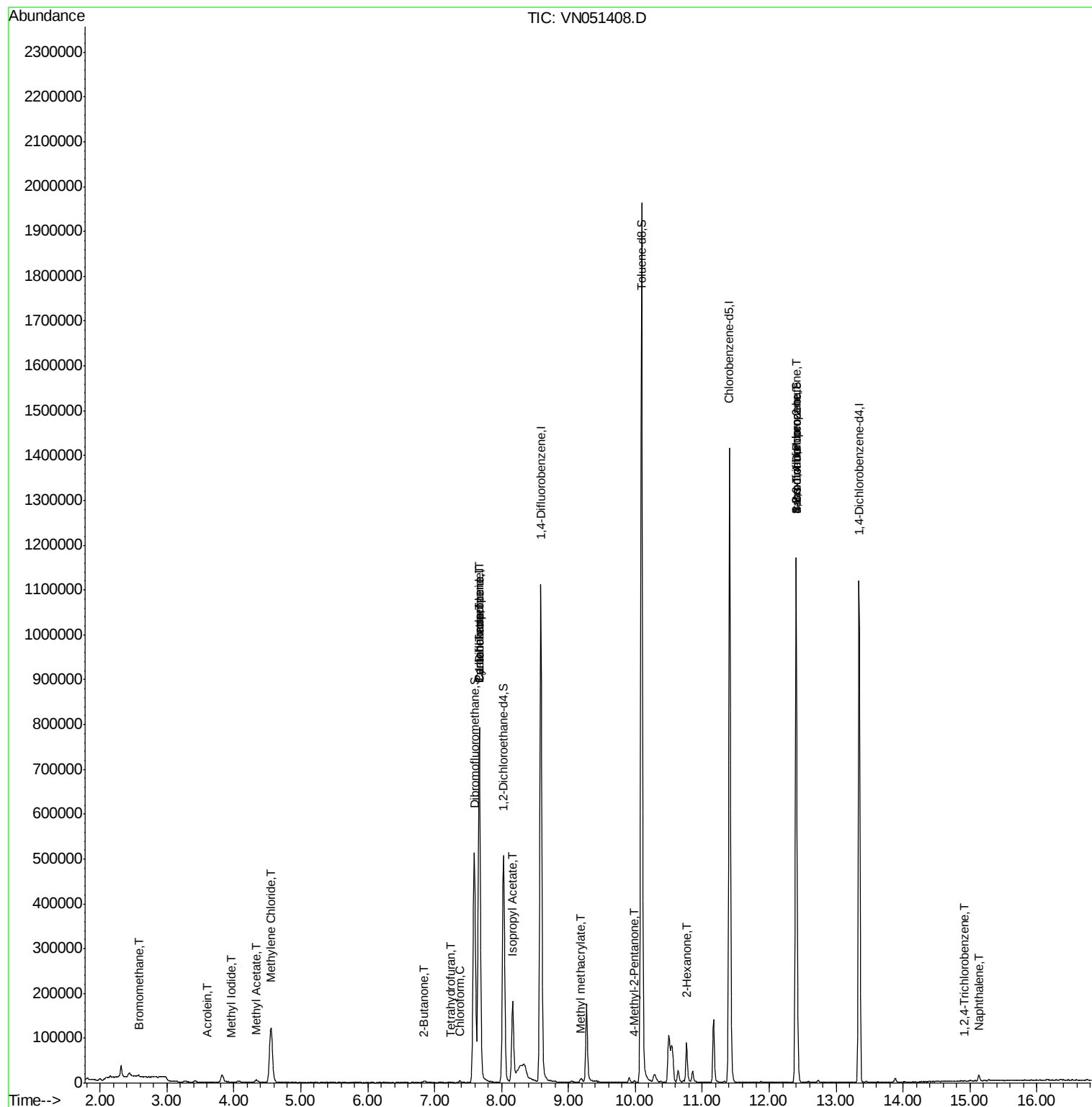
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1765	0.328	ug/l #	72
8) Diethyl Ether	3.41	74	1132	Below Cal		80
10) Methyl Iodide	3.95	142	111	0.287	ug/l #	42
13) Acrolein	3.61	56	154	0.328	ug/l #	13
16) Acetone	3.82	43	29809	Below Cal		99
18) Methyl Acetate	4.34	43	10184	1.596	ug/l #	71
20) Methylene Chloride	4.55	84	91830	11.078	ug/l	98
25) 2-Butanone	6.84	43	2661	0.928	ug/l #	83
29) Tetrahydrofuran	7.23	42	1539	0.847	ug/l #	42
30) Chloroform	7.38	83	4021	0.282	ug/l #	74
31) Cyclohexane	7.67	56	12410	0.941	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46838	3.903	ug/l #	49
38) Carbon Tetrachloride	7.67	117	61217	4.877	ug/l #	16
43) Isopropyl Acetate	8.17	43	218051	17.475	ug/l	97
48) Methyl methacrylate	9.18	41	5347	0.860	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	2560	0.373	ug/l #	67
59) 2-Hexanone	10.76	43	12532	2.817	ug/l #	60
71) Bromoform	12.40	173	3754	0.652	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	195982	37.169	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	195982	114.293	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.90	180	105	5.997	ug/l #	1
95) Naphthalene	15.13	128	11602	8.869	ug/l	97

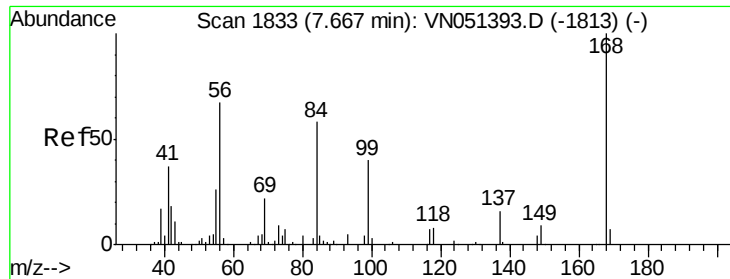
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

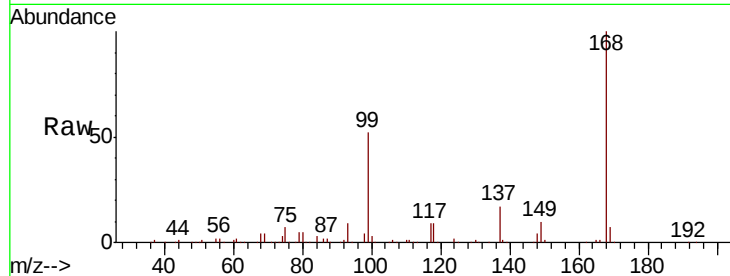
PL-02-0920-18-D

Tgt Ion:168 Resp: 668748

Ion Ratio Lower Upper

168 100

99 52.3 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

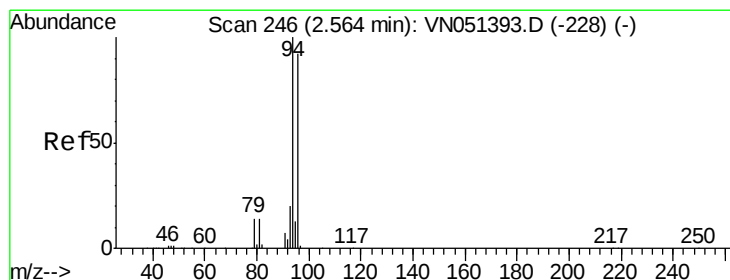
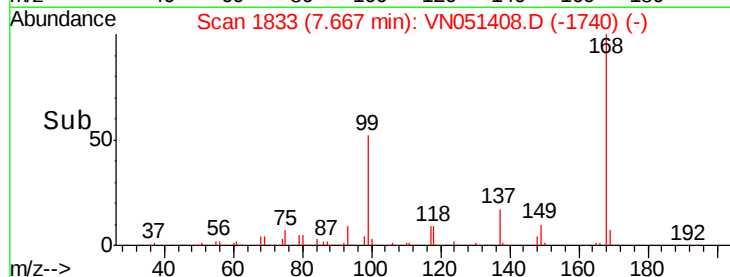
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.328 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051408.D

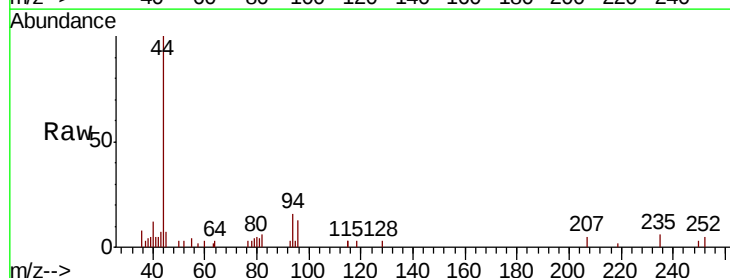
Acq: 23 Sep 2018 13:09

Tgt Ion: 94 Resp: 1765

Ion Ratio Lower Upper

94 100

96 64.9 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

1200

1000

800

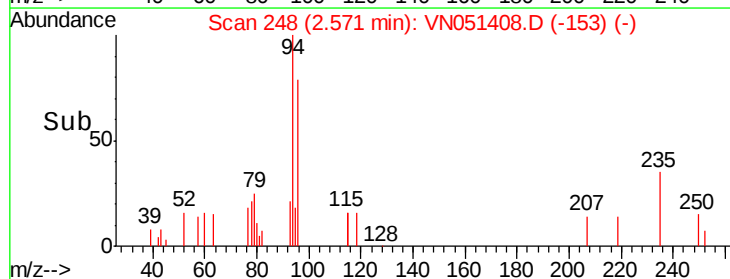
600

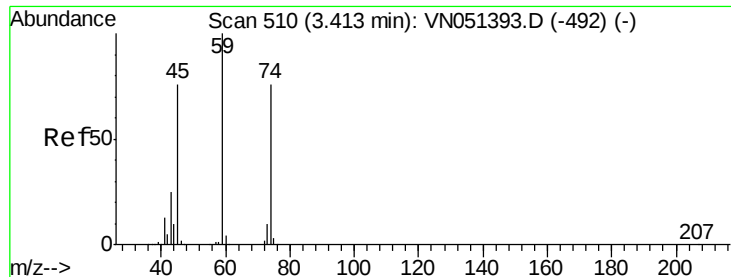
400

200

0

Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 3.41 min Scan# 509

Delta R.T. -0.00 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

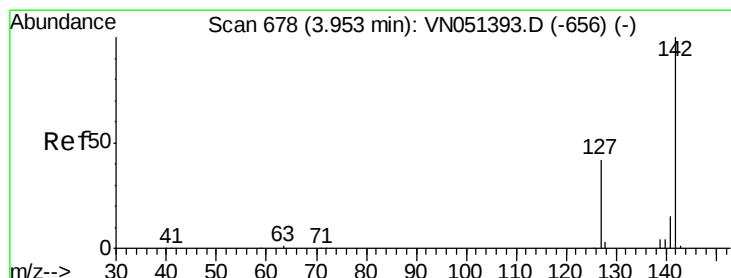
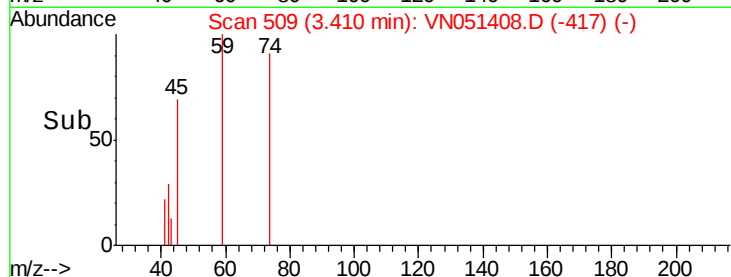
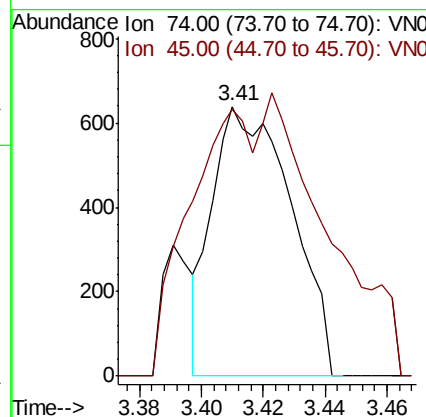
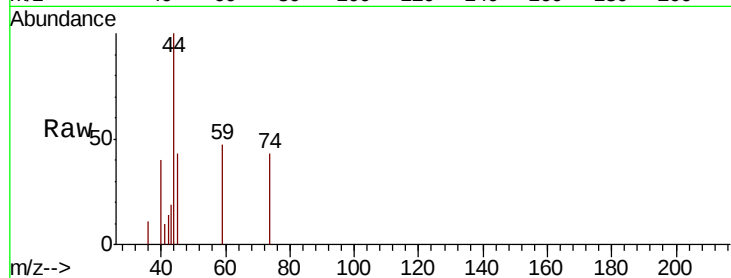
PL-02-0920-18-D

Tgt Ion: 74 Resp: 1132

Ion Ratio Lower Upper

74 100

45 80.0 50.2 150.7



#10

Methyl Iodide

Concen: 0.287 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

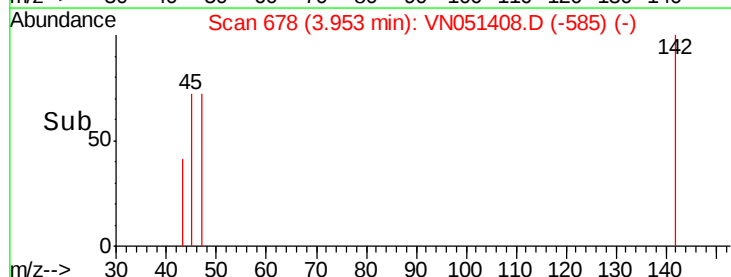
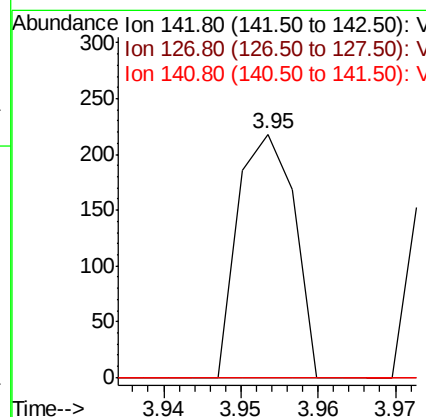
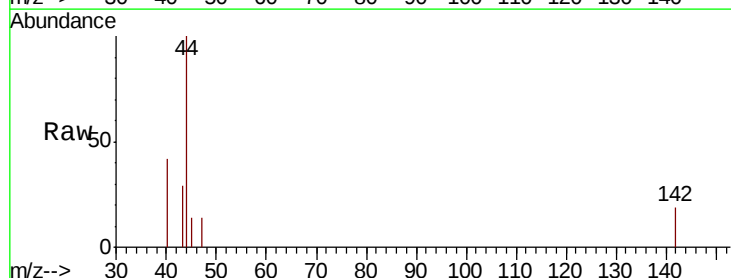
Tgt Ion: 142 Resp: 111

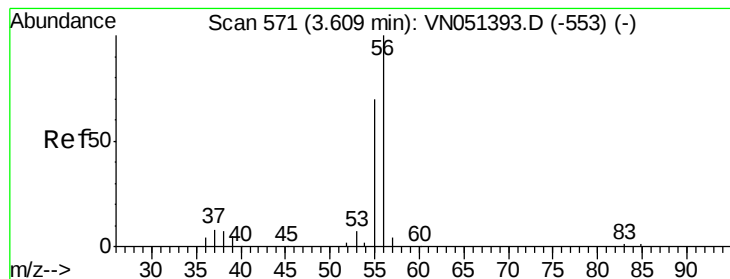
Ion Ratio Lower Upper

142 100

127 0.0 33.2 49.8#

141 0.0 11.5 17.3#





#13

Acrolein

Concen: 0.328 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

Instrument :

MSVOA_N

ClientSampled :

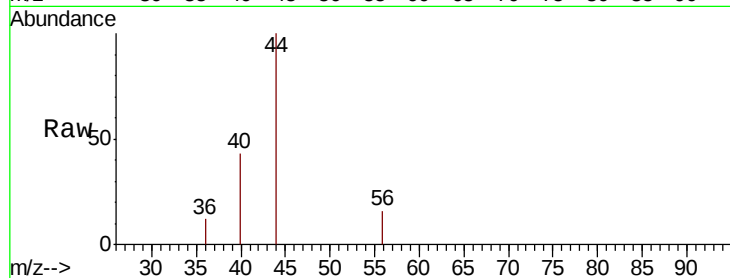
PL-02-0920-18-D

Tgt Ion: 56 Resp: 154

Ion Ratio Lower Upper

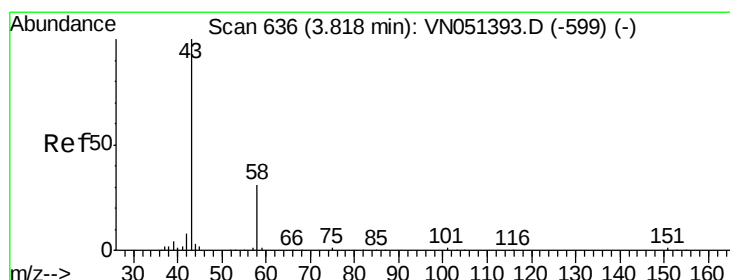
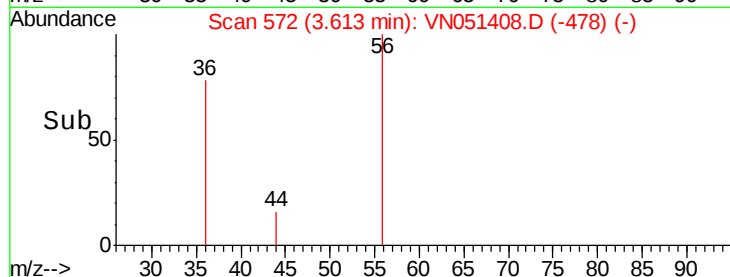
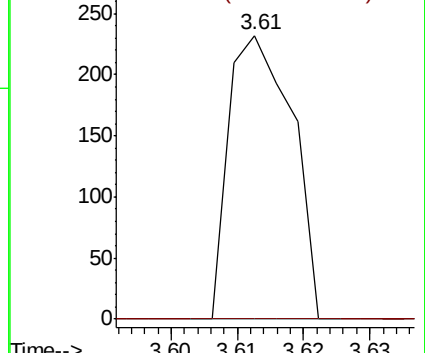
56 100

55 0.0 57.8 86.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051408.D

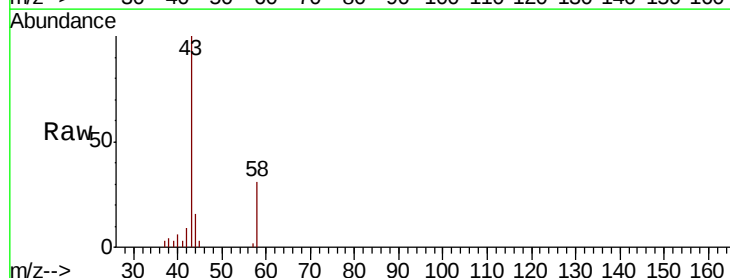
Acq: 23 Sep 2018 13:09

Tgt Ion: 43 Resp: 29809

Ion Ratio Lower Upper

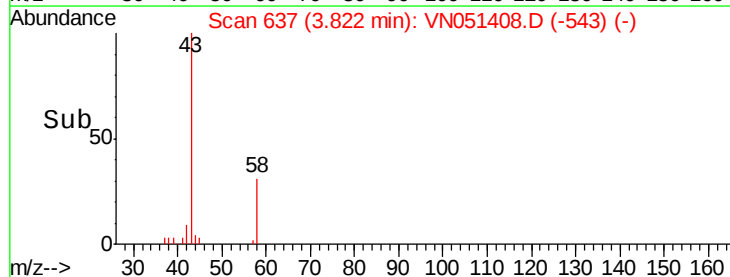
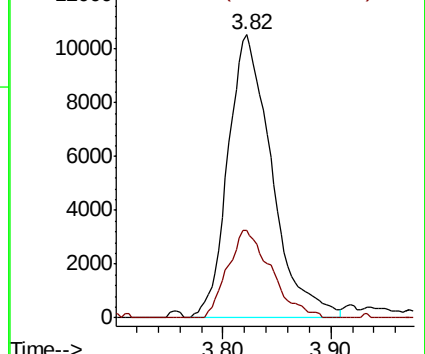
43 100

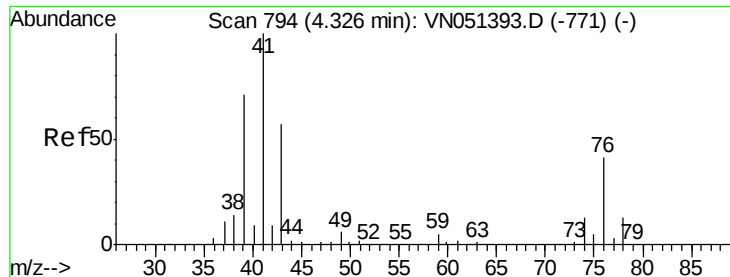
58 30.8 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

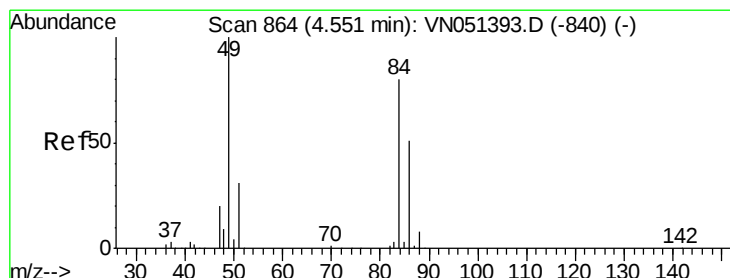
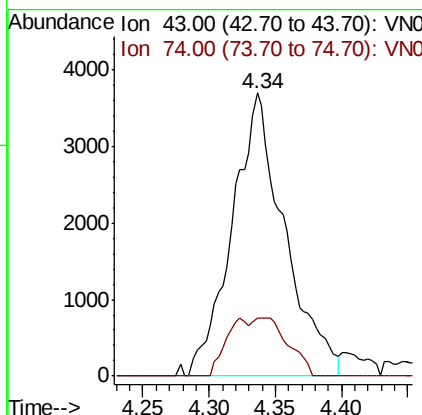
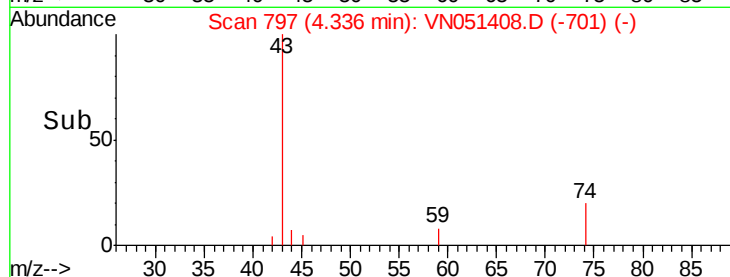
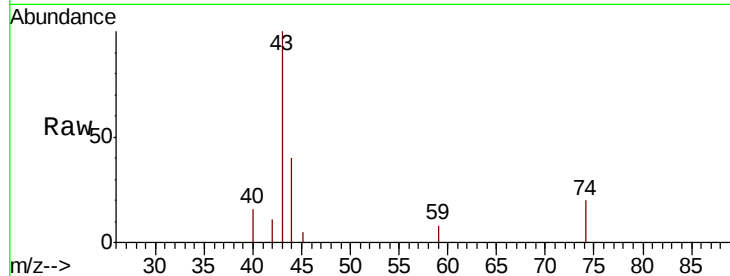




#18
Methyl Acetate
Concen: 1.596 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051408.D
Acq: 23 Sep 2018 13:09

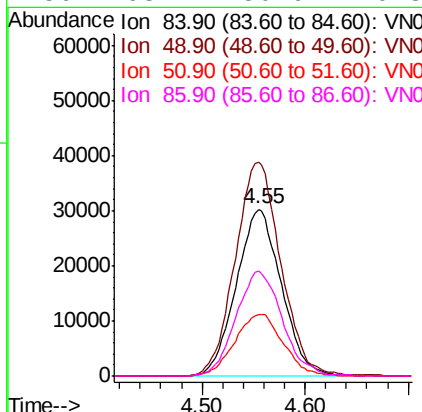
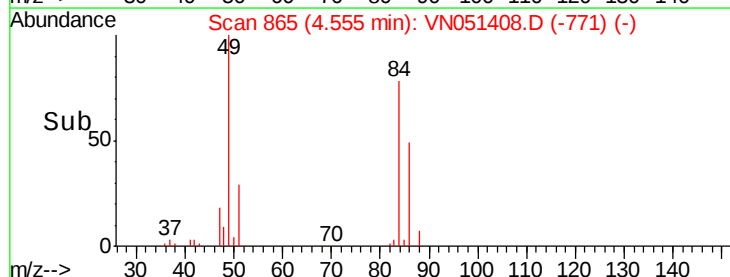
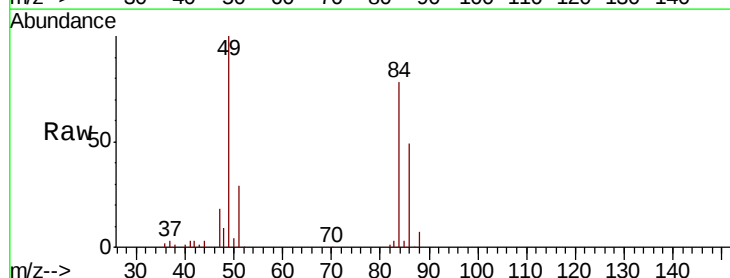
Instrument :
MSVOA_N
ClientSampleId :
PL-02-0920-18-D

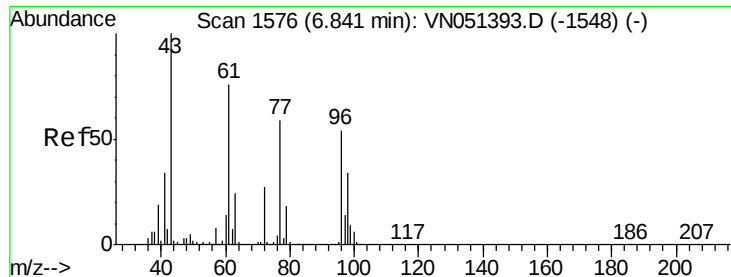
Tgt Ion: 43 Resp: 10184
Ion Ratio Lower Upper
43 100
74 9.1 18.8 28.2#



#20
Methylene Chloride
Concen: 11.078 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051408.D
Acq: 23 Sep 2018 13:09

Tgt Ion: 84 Resp: 91830
Ion Ratio Lower Upper
84 100
49 128.2 99.9 149.9
51 36.7 31.4 47.2
86 63.4 50.9 76.3

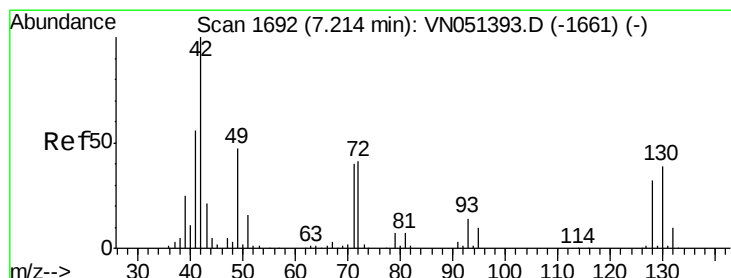
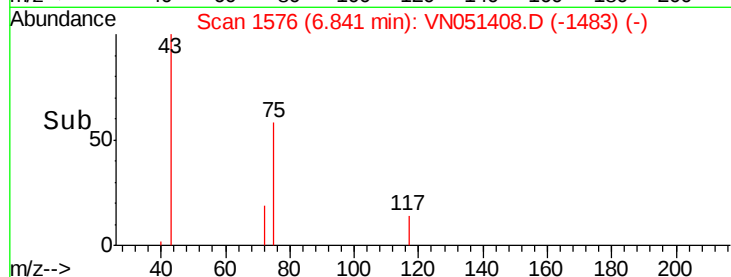
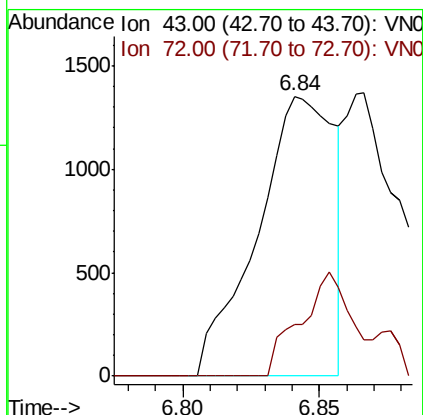
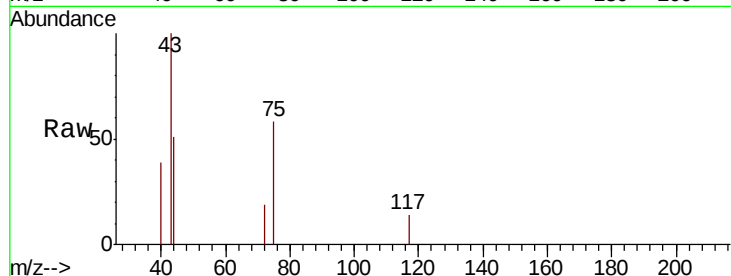




#25
2-Butanone
Concen: 0.928 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051408.D
Acq: 23 Sep 2018 13:09

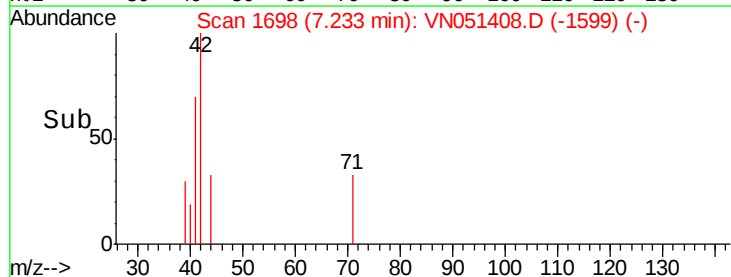
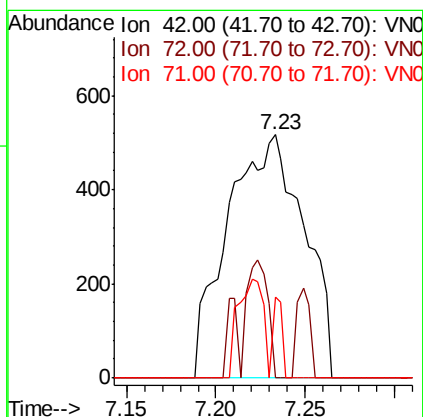
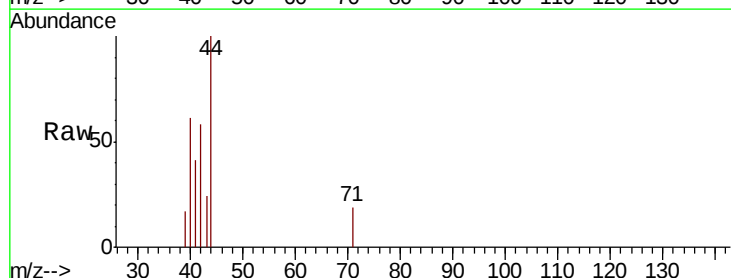
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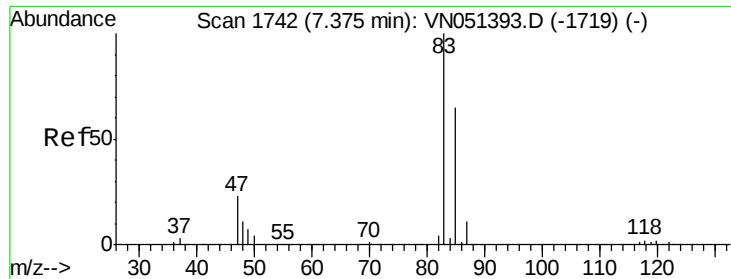
Tgt Ion: 43 Resp: 2661
Ion Ratio Lower Upper
43 100
72 18.5 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.847 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.02 min
Lab File: VN051408.D
Acq: 23 Sep 2018 13:09

Tgt Ion: 42 Resp: 1539
Ion Ratio Lower Upper
42 100
72 6.4 34.3 51.5#
71 4.2 32.2 48.4#





#30

Chloroform

Concen: 0.282 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

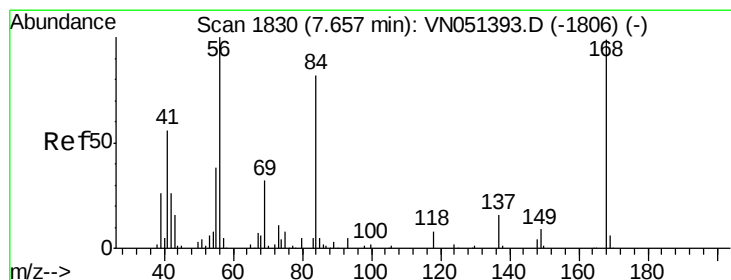
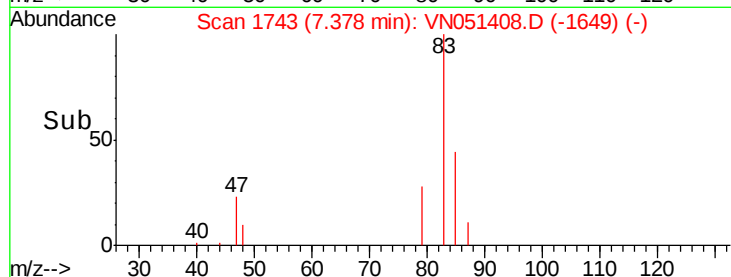
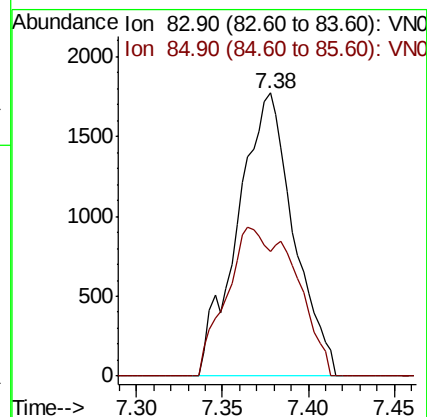
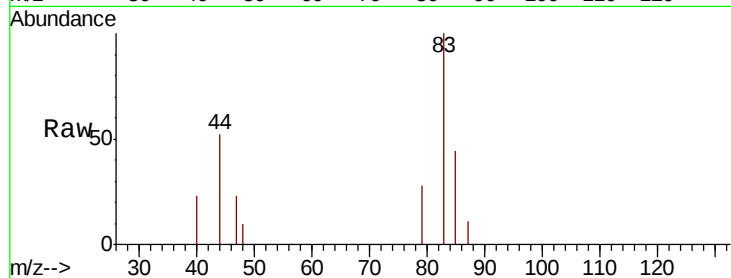
PL-02-0920-18-D

Tgt Ion: 83 Resp: 4021

Ion Ratio Lower Upper

83 100

85 44.1 51.8 77.6#



#31

Cyclohexane

Concen: 0.941 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

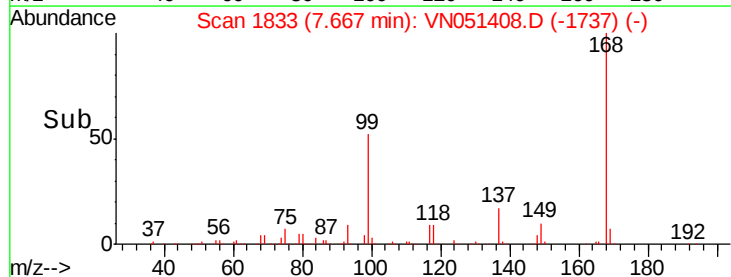
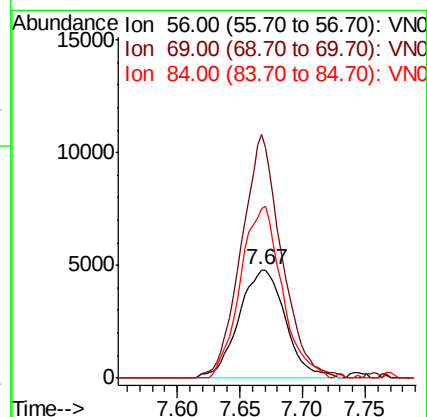
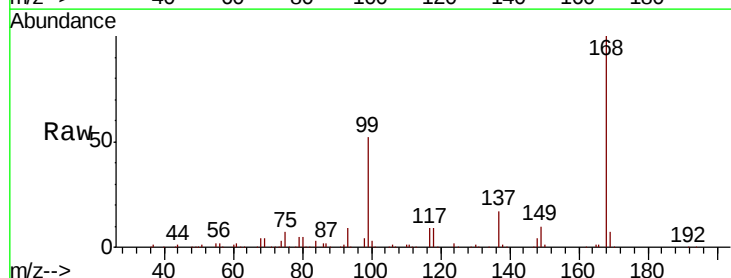
Tgt Ion: 56 Resp: 12410

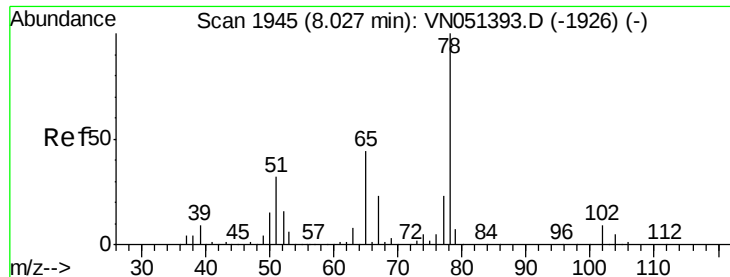
Ion Ratio Lower Upper

56 100

69 224.6 25.8 38.6#

84 155.7 66.0 99.0#

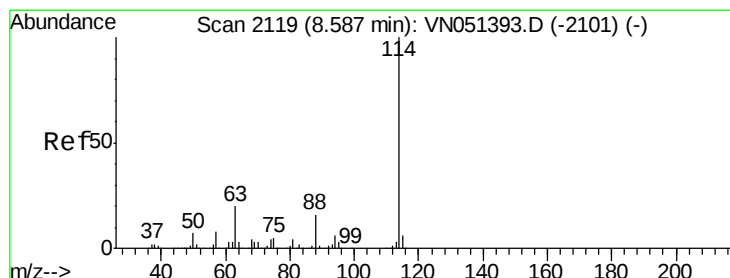
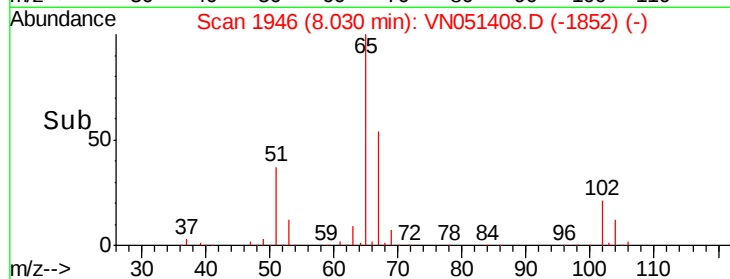
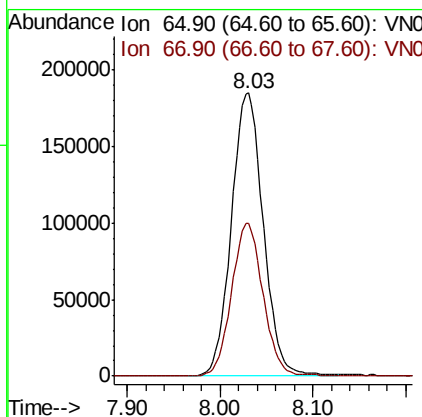
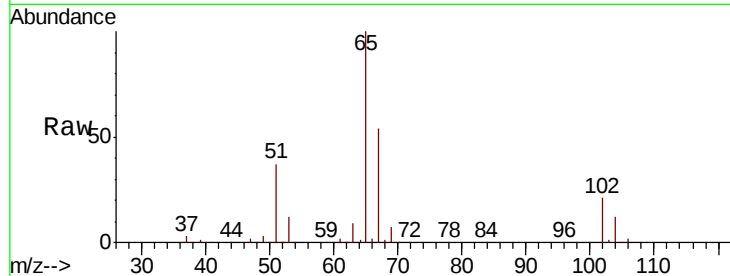




#33
 1,2-Dichloroethane-d4
 Concen: 52.640 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

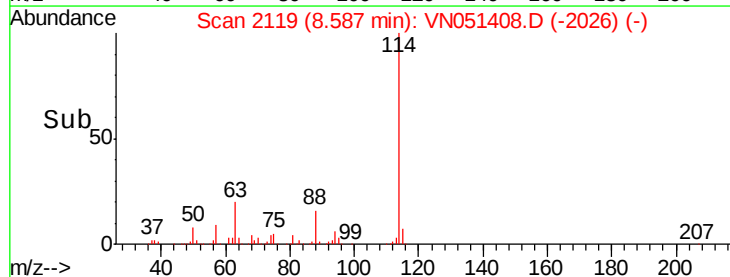
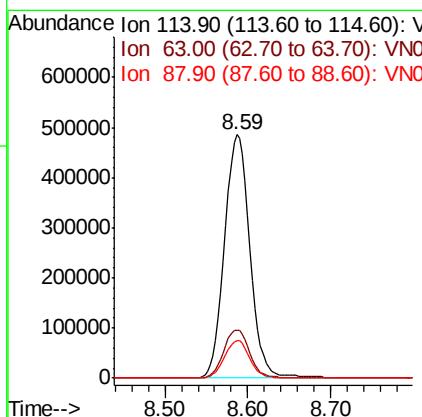
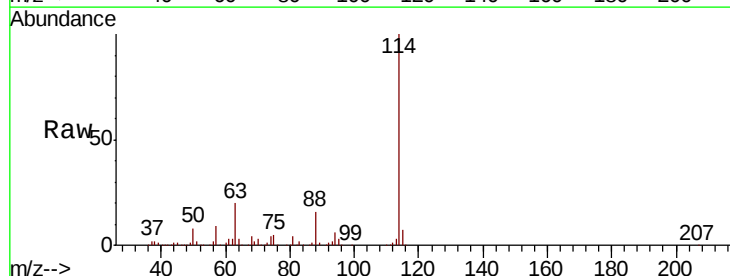
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-D

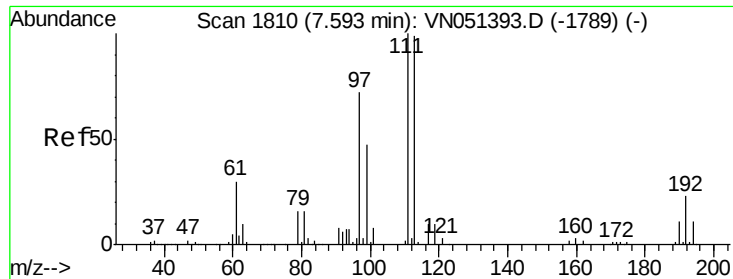
Tgt Ion: 65 Resp: 440977
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

Tgt Ion: 114 Resp: 1036382
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.2
 88 15.6 0.0 31.4

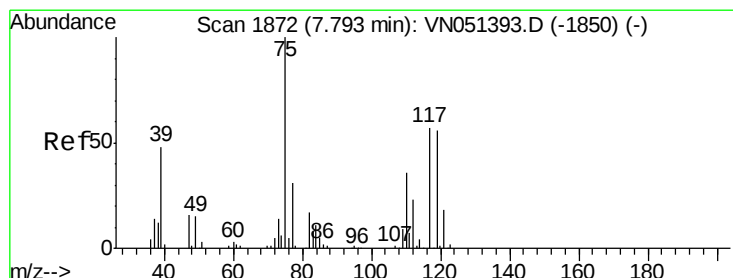
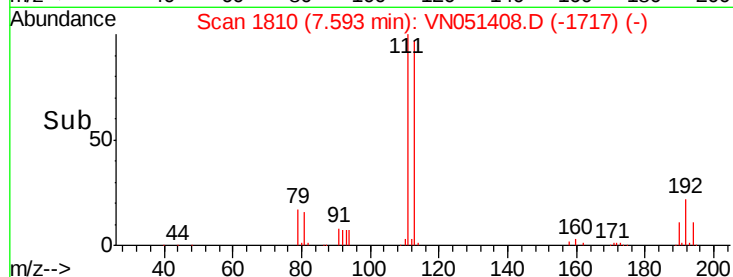
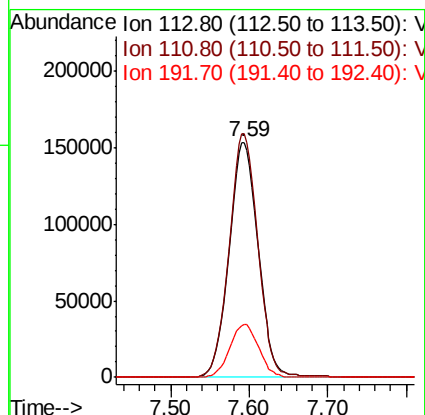
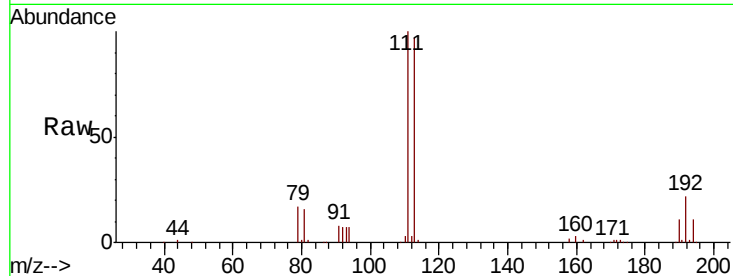




#35
 Dibromofluoromethane
 Concen: 47.408 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

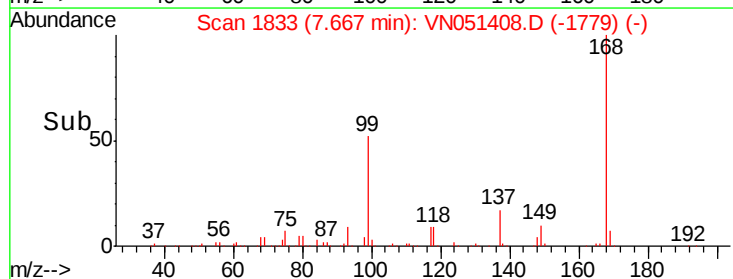
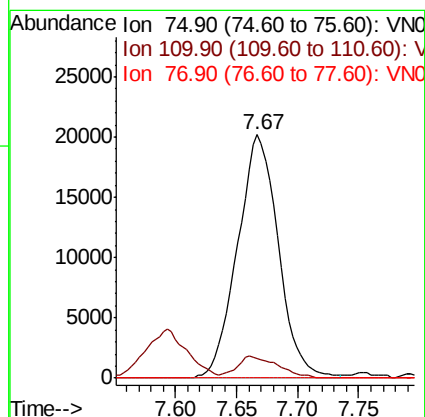
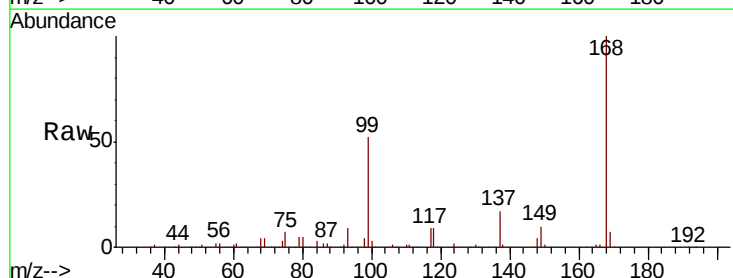
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-D

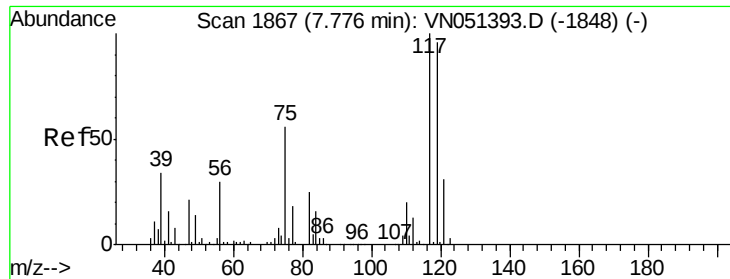
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.6	123.8
192	22.4	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.903 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.3#
77	0.0	25.6	38.4#

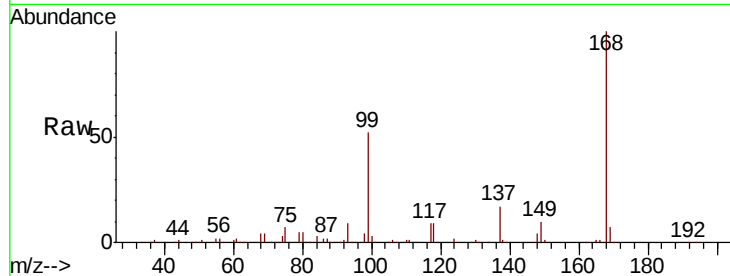




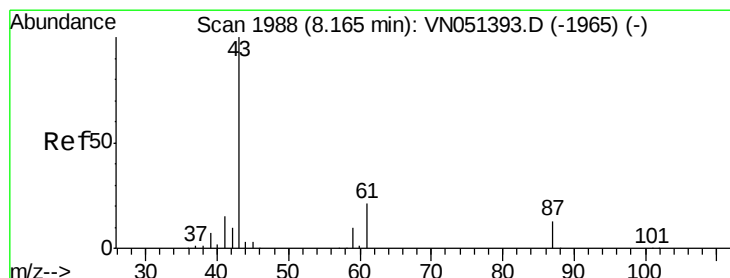
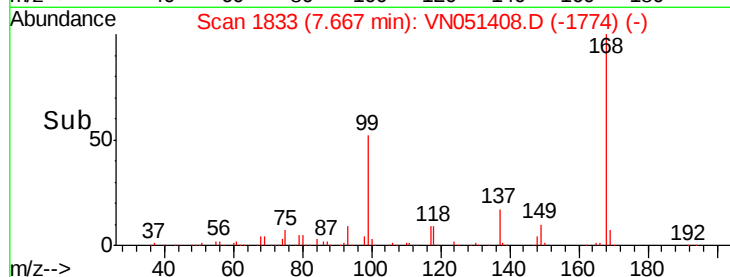
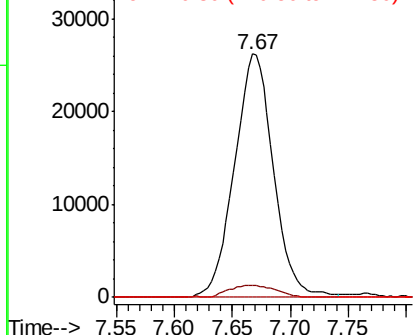
#38
Carbon Tetrachloride
Concen: 4.877 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051408.D
Acq: 23 Sep 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
PL-02-0920-18-D

Tgt Ion:117 Resp: 61217
Ion Ratio Lower Upper
117 100
119 4.9 76.9 115.3#
121 0.0 24.6 37.0#

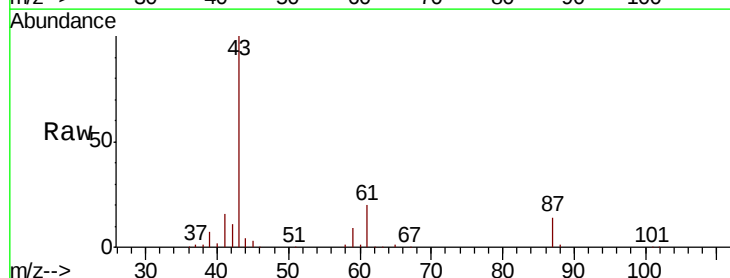


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

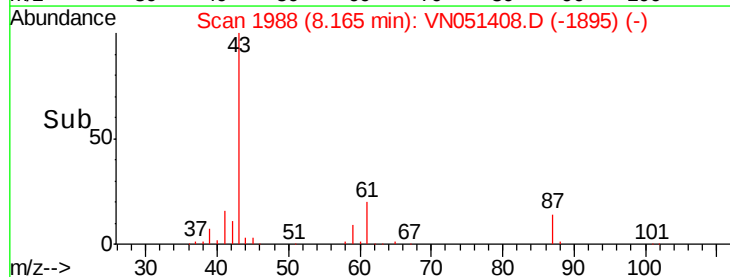
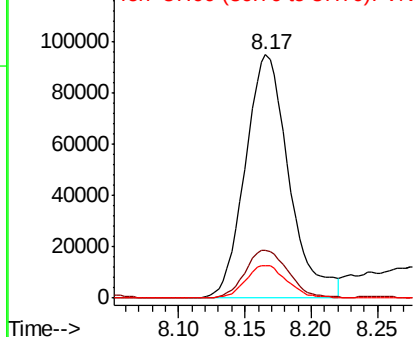


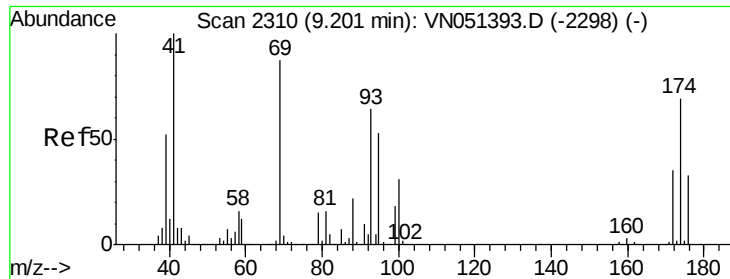
#43
Isopropyl Acetate
Concen: 17.475 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051408.D
Acq: 23 Sep 2018 13:09

Tgt Ion: 43 Resp: 218051
Ion Ratio Lower Upper
43 100
61 19.5 16.8 25.2
87 12.8 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

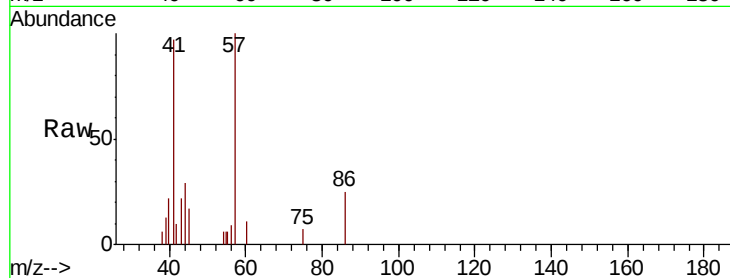




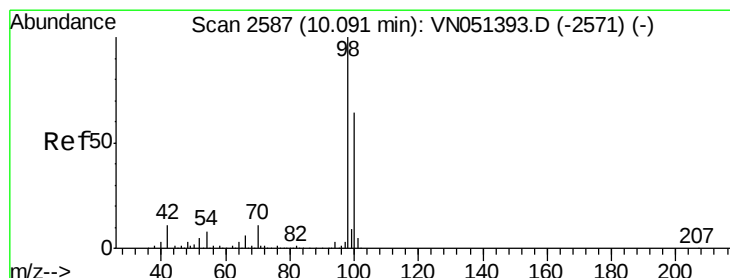
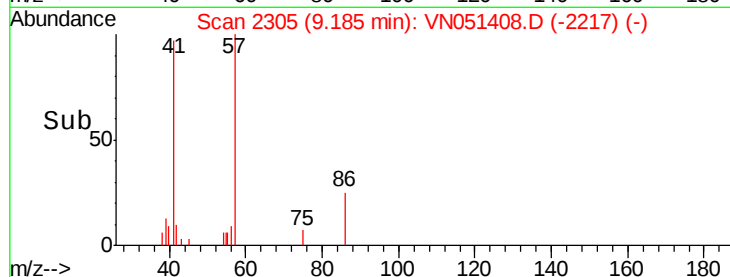
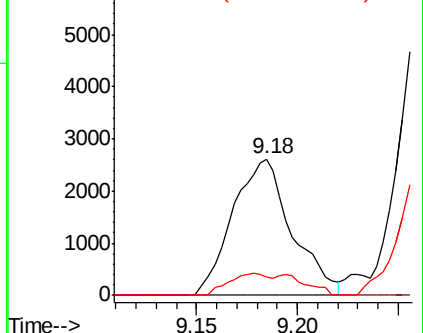
#48
Methyl methacrylate
Concen: 0.860 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051408.D
Acq: 23 Sep 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
PL-02-0920-18-D

Tgt Ion: 41 Resp: 5347
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 11.6 43.8 65.8#

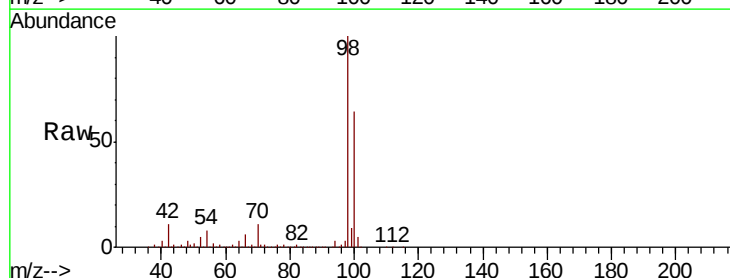


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

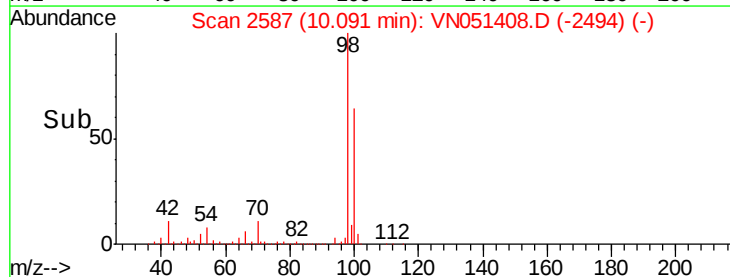
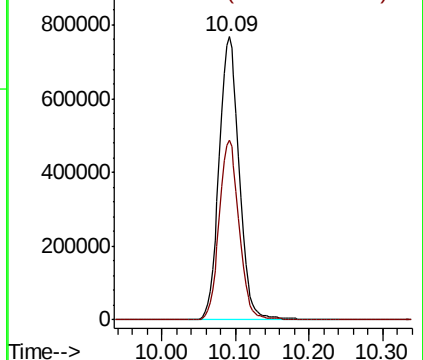


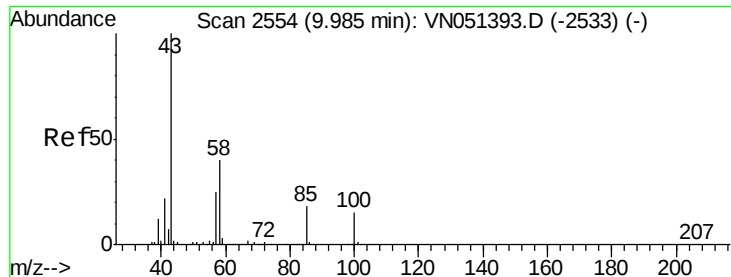
#50
Toluene-d8
Concen: 46.498 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051408.D
Acq: 23 Sep 2018 13:09

Tgt Ion: 98 Resp: 1451085
Ion Ratio Lower Upper
98 100
100 62.9 50.6 75.8



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

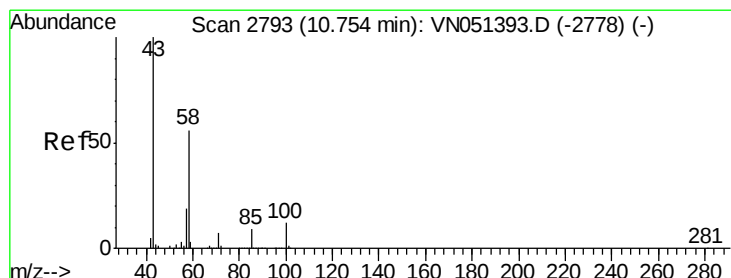
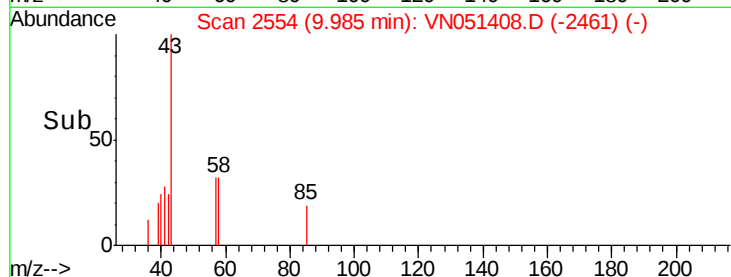
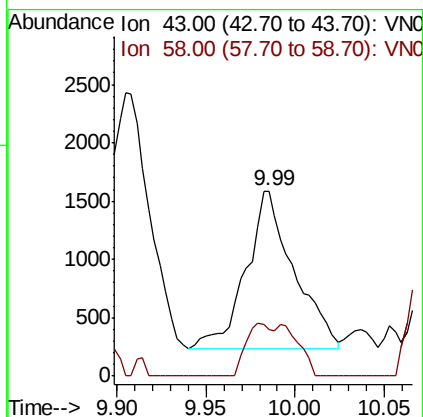
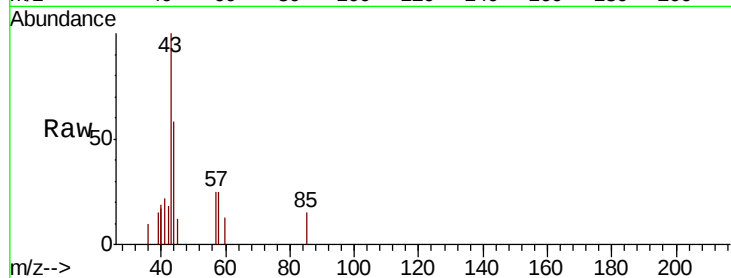




#51
 4-Methyl-2-Pentanone
 Concen: 0.373 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

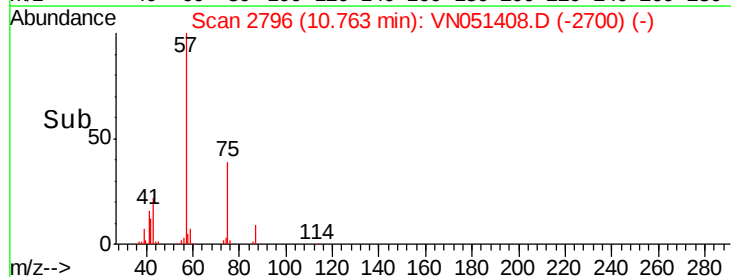
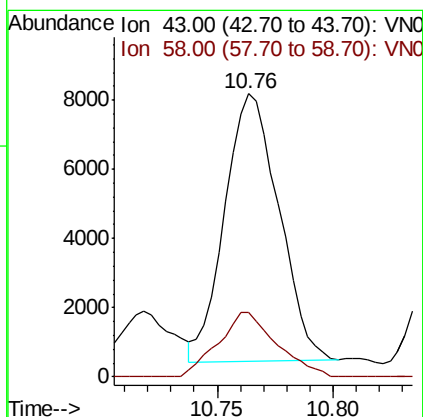
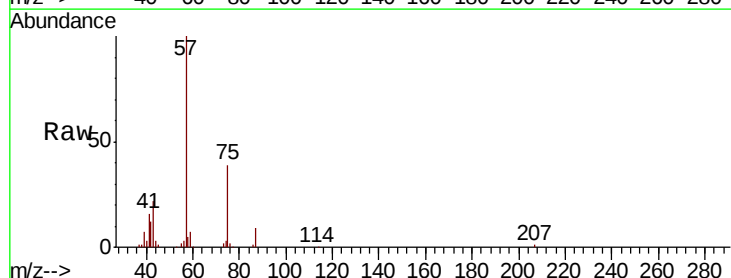
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-D

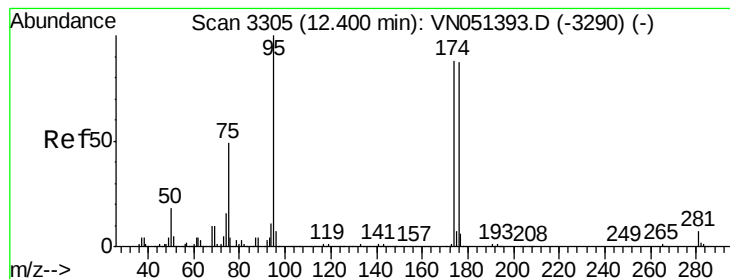
Tgt Ion: 43 Resp: 2560
 Ion Ratio Lower Upper
 43 100
 58 19.4 31.5 47.3#



#59
 2-Hexanone
 Concen: 2.817 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

Tgt Ion: 43 Resp: 12532
 Ion Ratio Lower Upper
 43 100
 58 26.1 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 38.639 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-D

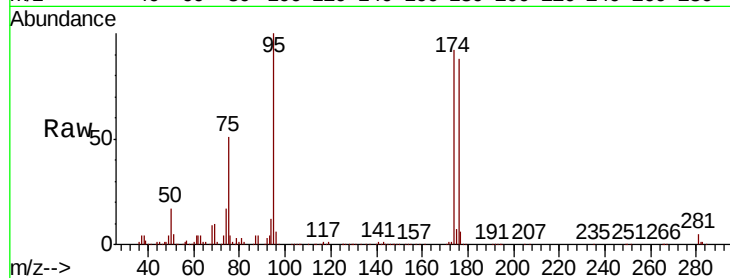
Tgt Ion: 95 Resp: 390085

Ion Ratio Lower Upper

95 100

174 91.7 0.0 181.6

176 88.4 0.0 176.4

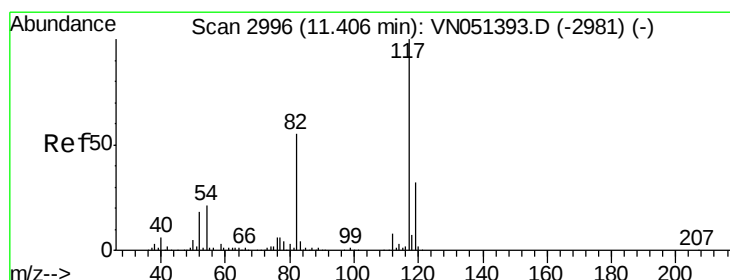
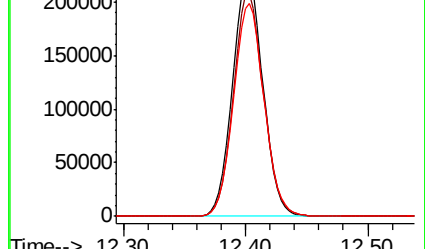
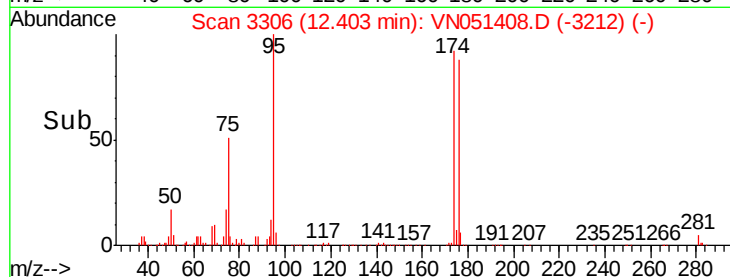


Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

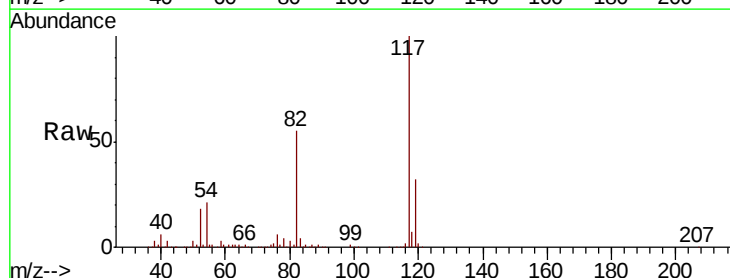
Tgt Ion: 117 Resp: 868002

Ion Ratio Lower Upper

117 100

82 54.8 44.2 66.2

119 32.1 25.9 38.9

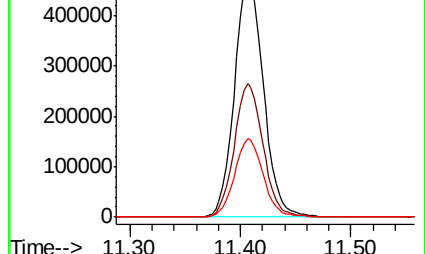
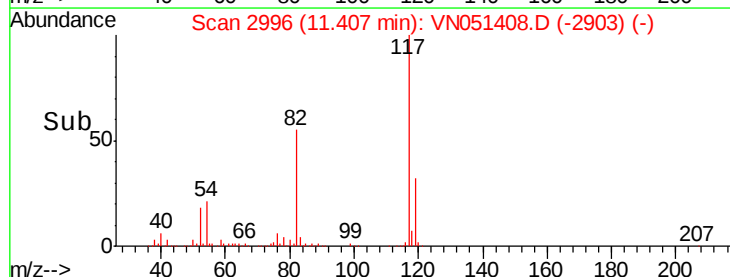


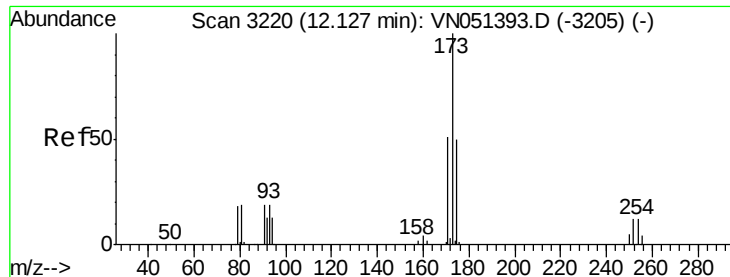
Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

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

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

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.652 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-D

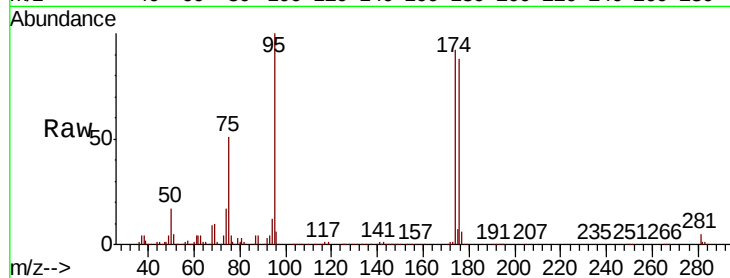
Tgt Ion:173 Resp: 3754

Ion Ratio Lower Upper

173 100

175 614.4 24.8 74.3#

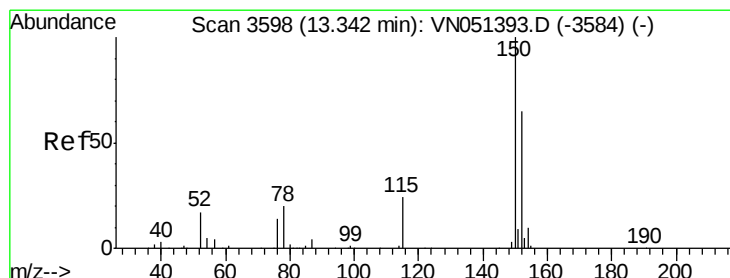
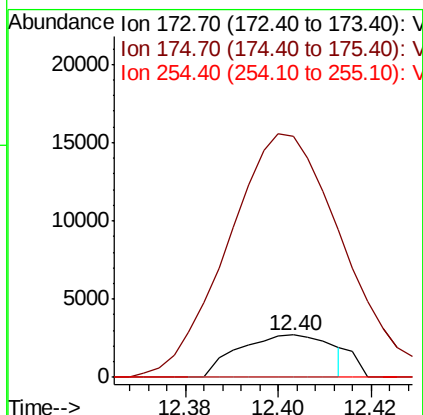
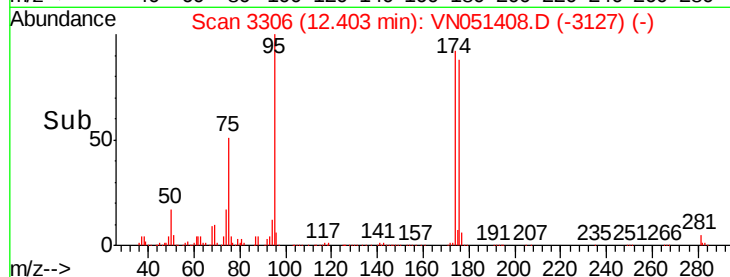
254 0.0 0.2 0.2#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051408.D

Acq: 23 Sep 2018 13:09

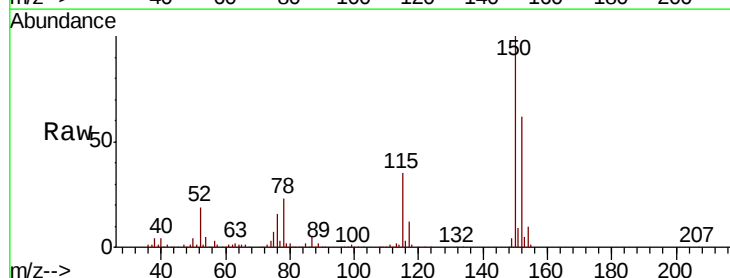
Tgt Ion:152 Resp: 317620

Ion Ratio Lower Upper

152 100

115 56.6 28.3 84.9

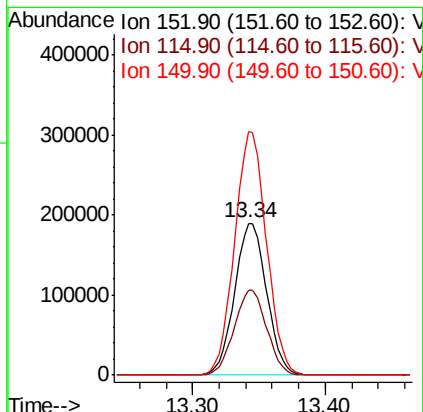
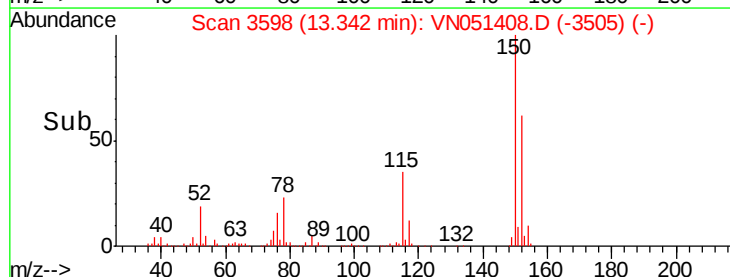
150 159.9 0.0 353.6

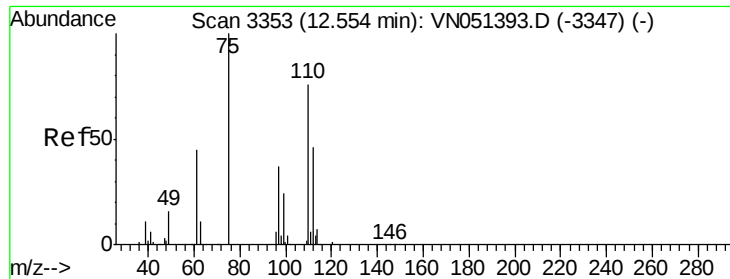


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

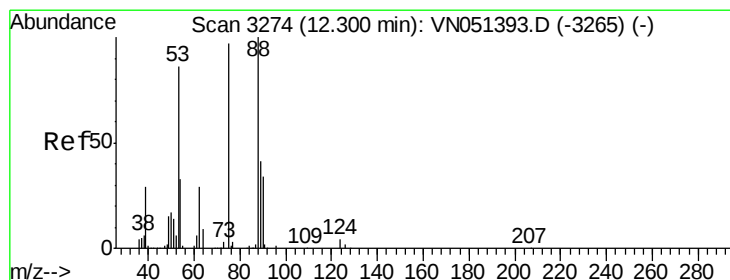
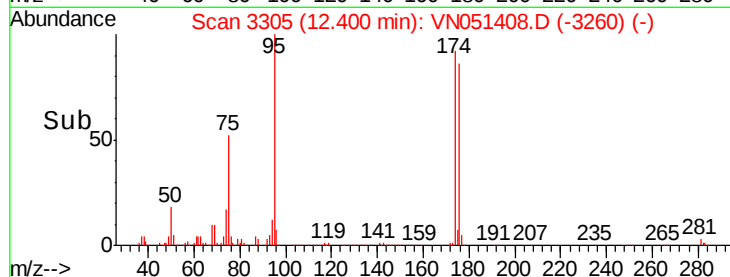
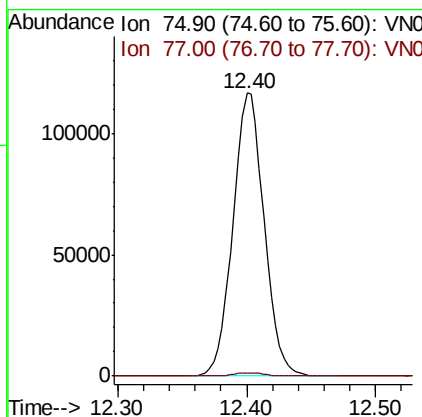
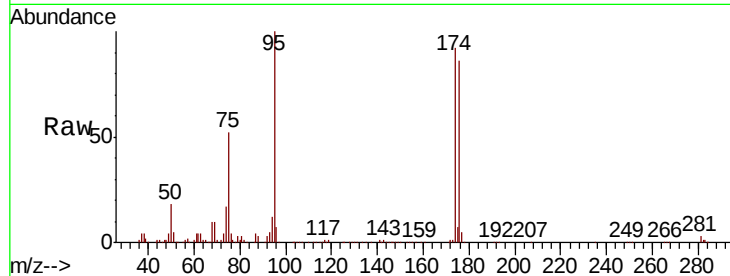




#76
 1,2,3-Trichloropropane
 Concen: 37.169 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

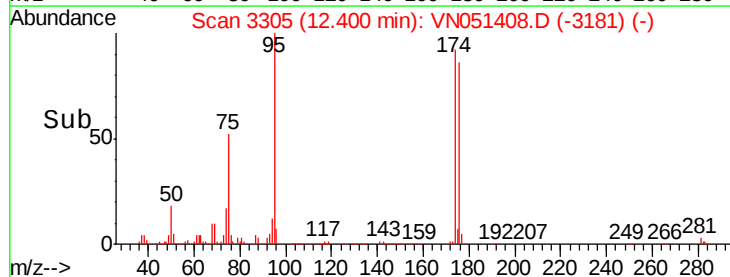
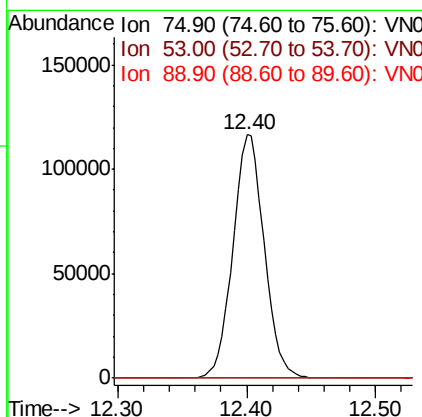
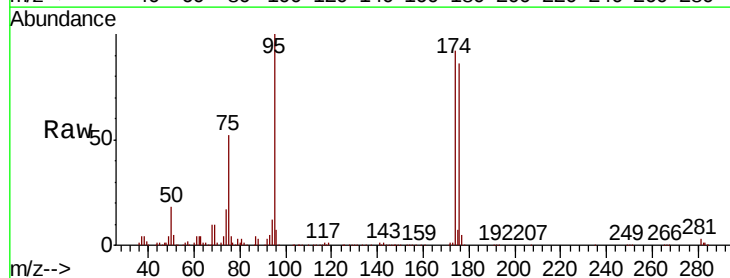
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-D

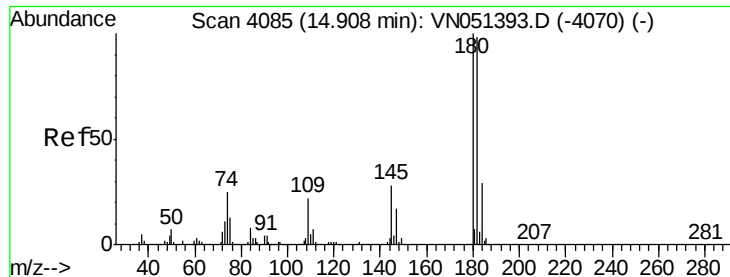
Tgt Ion: 75 Resp: 195982
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 114.293 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

Tgt Ion: 75 Resp: 195982
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.9 110.9#
 89 0.0 36.7 55.1#

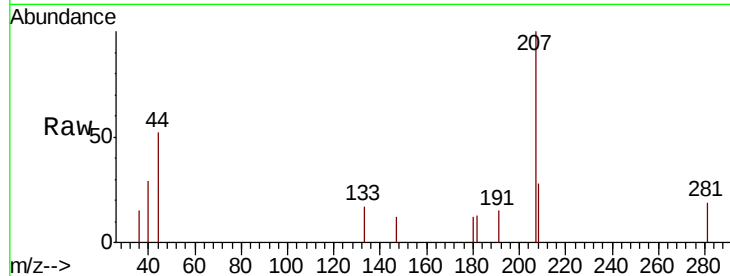




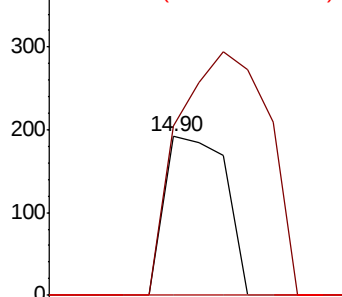
#93
 1,2,4-Trichlorobenzene
 Concen: 5.997 ug/l
 RT: 14.90 min Scan# 4083
 Delta R.T. -0.01 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-D

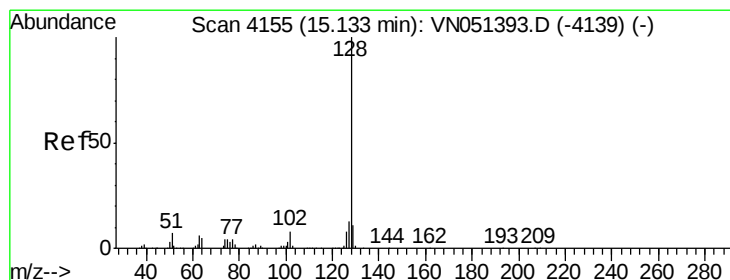
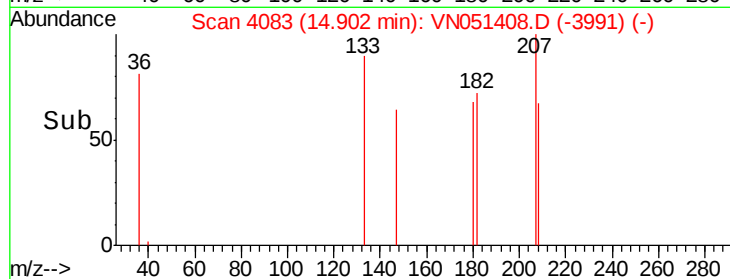
Tgt Ion:180 Resp: 105
 Ion Ratio Lower Upper
 180 100
 182 227.6 48.5 145.6#
 145 0.0 14.1 42.4#



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

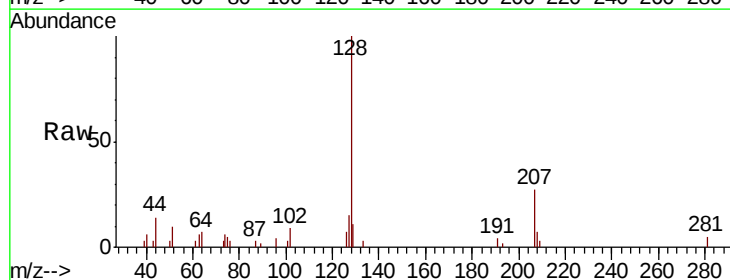


Time-->

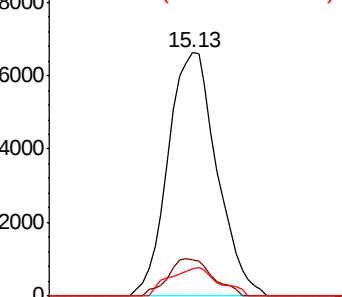


#95
 Naphthalene
 Concen: 8.869 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN051408.D
 Acq: 23 Sep 2018 13:09

Tgt Ion:128 Resp: 11602
 Ion Ratio Lower Upper
 128 100
 127 14.1 10.5 15.7
 129 11.8 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



Time-->

