

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092418\
 Data File : VN051460.D
 Acq On : 24 Sep 2018 14:44
 Operator : MD\SY
 Sample : J4770-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-G

Quant Time: Sep 25 01:58:54 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

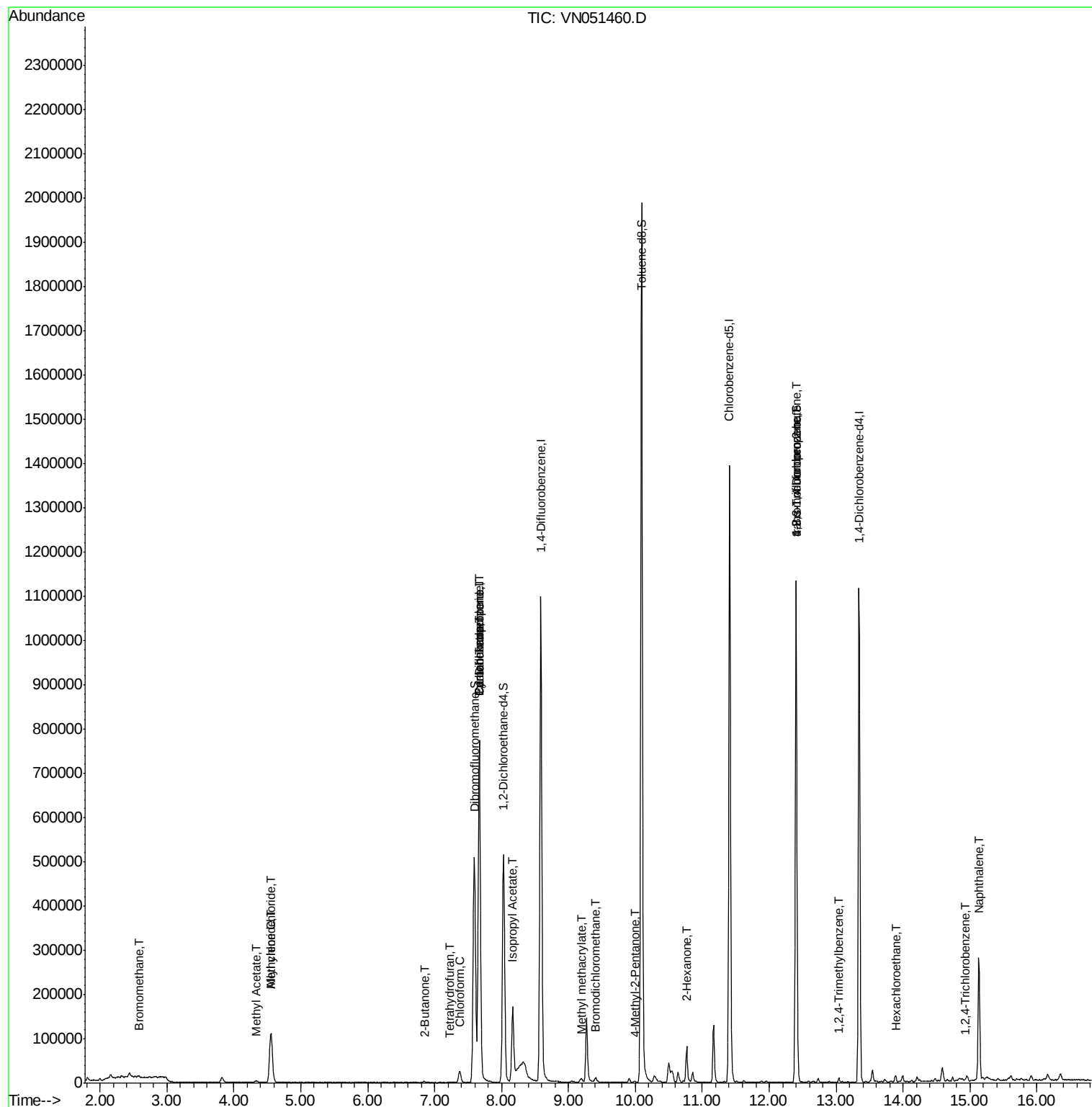
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	666639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1009002	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	838922	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	316141	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	449893	53.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.74%	
35) Dibromofluoromethane	7.59	113	394172	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
50) Toluene-d8	10.09	98	1424187	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	
62) 4-Bromofluorobenzene	12.40	95	387566	39.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.86%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	1662	0.313	ug/l	98
14) Allyl chloride	4.55	41	3162	0.254	ug/l #	26
16) Acetone	3.82	43	20055	Below Cal		98
18) Methyl Acetate	4.33	43	9829	1.545	ug/l #	57
20) Methylene Chloride	4.55	84	86152	10.426	ug/l	98
25) 2-Butanone	6.86	43	3011	1.053	ug/l #	80
29) Tetrahydrofuran	7.23	42	609	0.336	ug/l #	50
30) Chloroform	7.37	83	28309	1.991	ug/l	99
31) Cyclohexane	7.67	56	11719	0.891	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46718	3.998	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59444	4.864	ug/l #	16
43) Isopropyl Acetate	8.17	43	211032	17.372	ug/l	97
47) Bromodichloromethane	9.41	83	6318	0.542	ug/l	98
48) Methyl methacrylate	9.18	41	5564	0.919	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1494	0.224	ug/l	97
59) 2-Hexanone	10.76	43	11321	2.614	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	189317	36.073	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	189317	110.922	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	5528	0.252	ug/l	98
90) Hexachloroethane	13.88	117	1100	0.244	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.92	180	185	6.008	ug/l #	1
95) Naphthalene	15.13	128	242218	25.336	ug/l	99

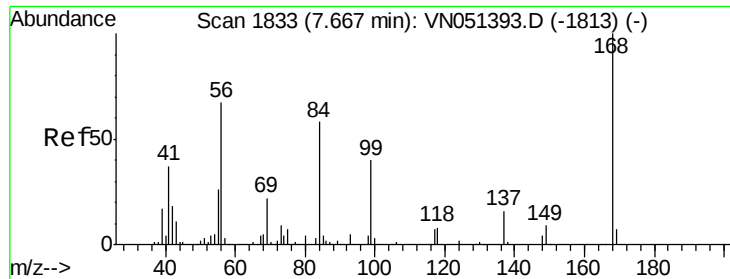
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051460.D

Acq: 24 Sep 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

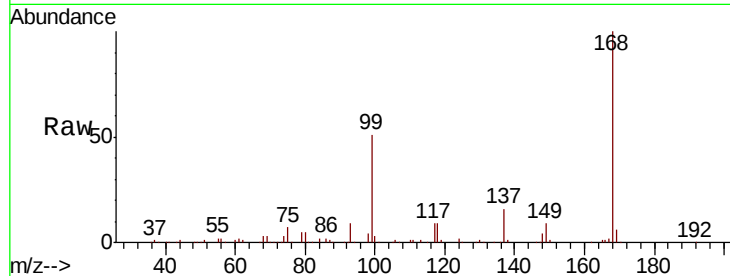
JC-02-092118-G

Tot Ion:168 Resp: 666639

Ion Ratio Lower Upper

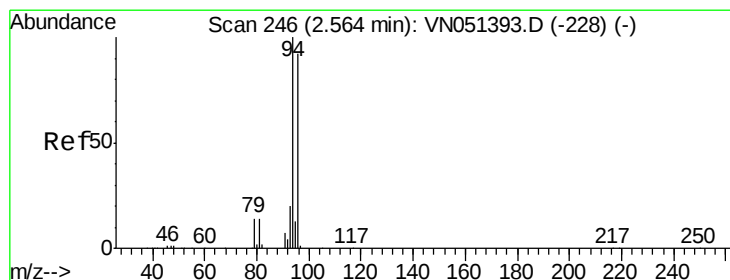
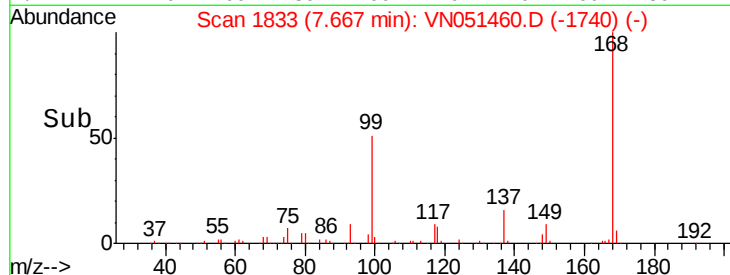
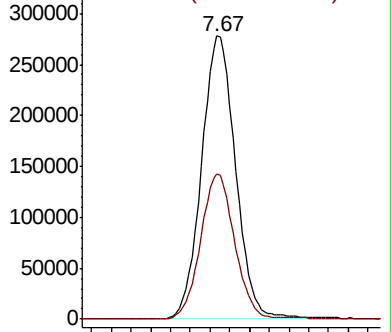
168 100

99 51.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: 0.313 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051460.D

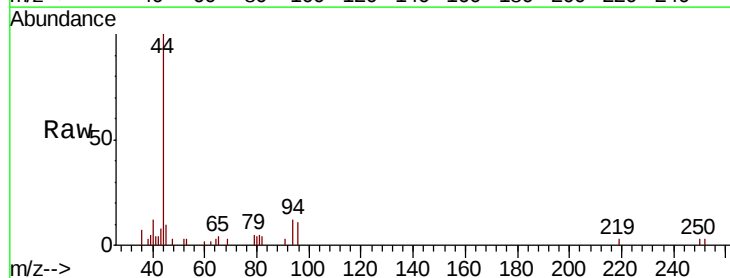
Acq: 24 Sep 2018 14:44

Tgt Ion: 94 Resp: 1662

Ion Ratio Lower Upper

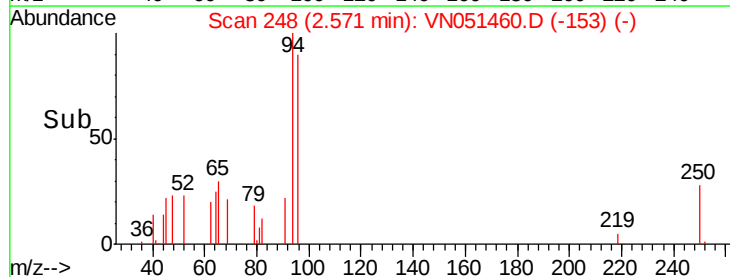
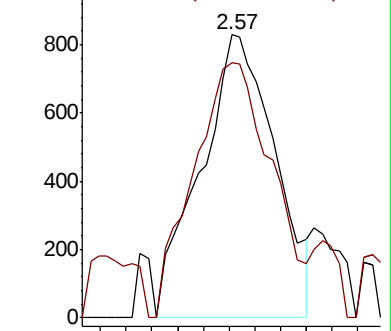
94 100

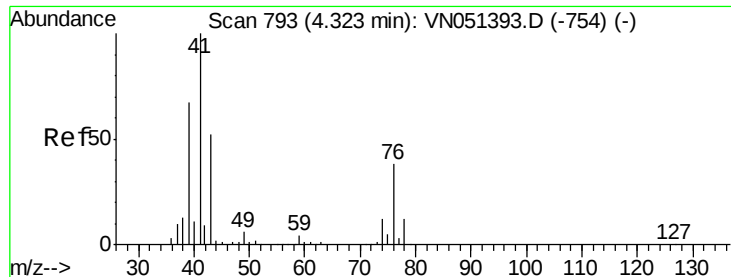
96 90.0 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

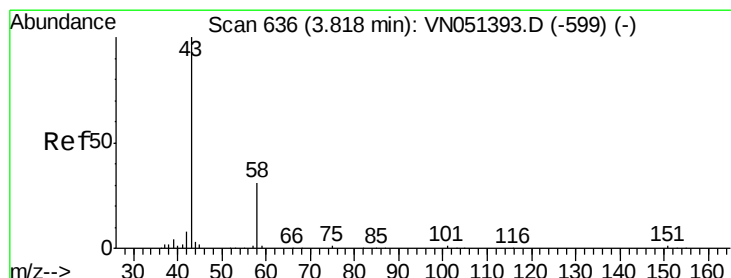
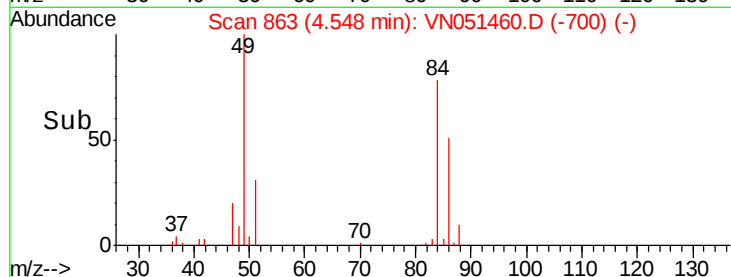
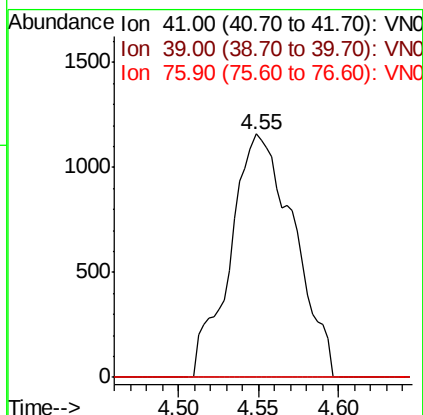
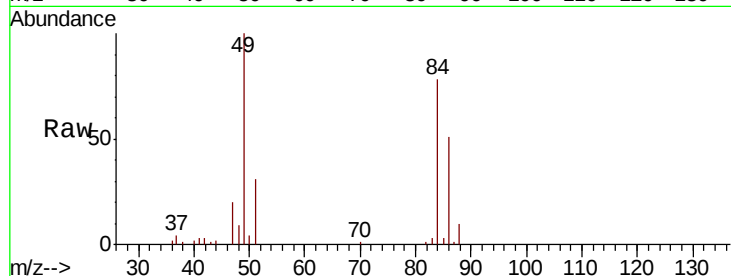




#14
Allvl chloride
Concen: 0.254 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.23 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

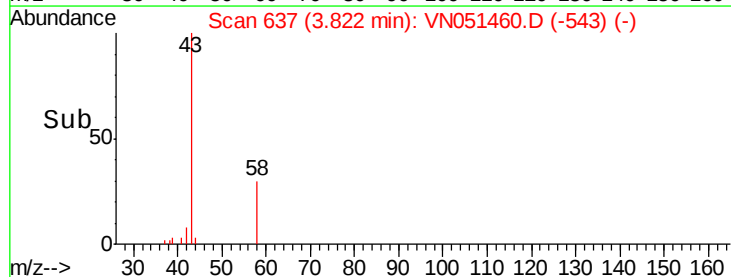
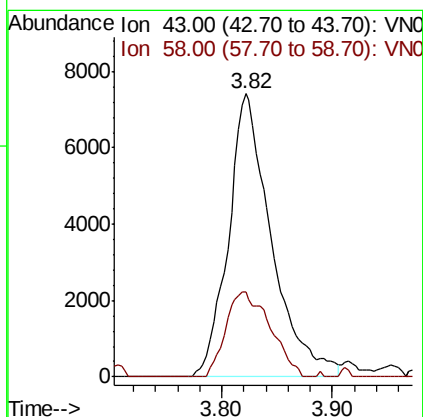
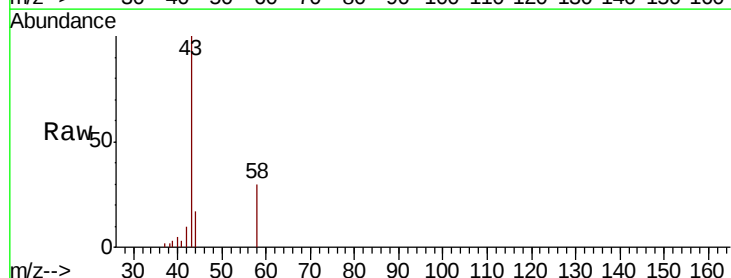
Instrument :
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ClientSampleId :
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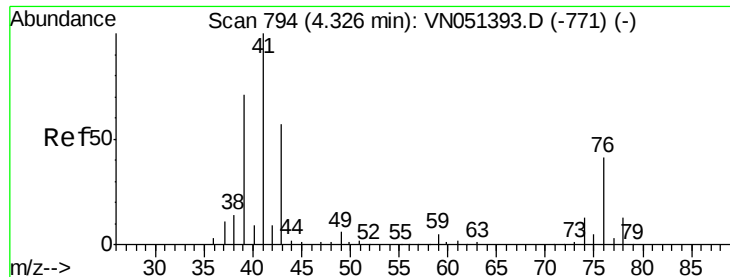
Tot Ion: 41 Resp: 3162
Ion Ratio Lower Upper
41 100
39 0.0 51.4 77.2#
76 0.0 28.1 42.1#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

Tgt Ion: 43 Resp: 20055
Ion Ratio Lower Upper
43 100
58 29.9 25.0 37.4

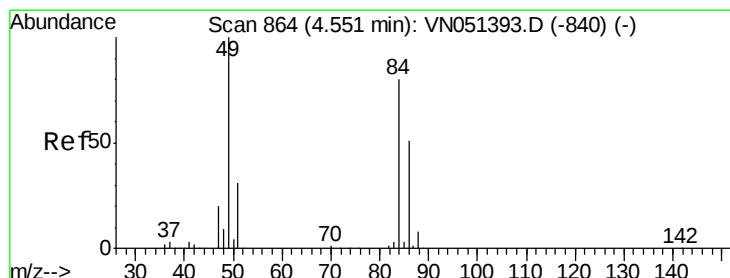
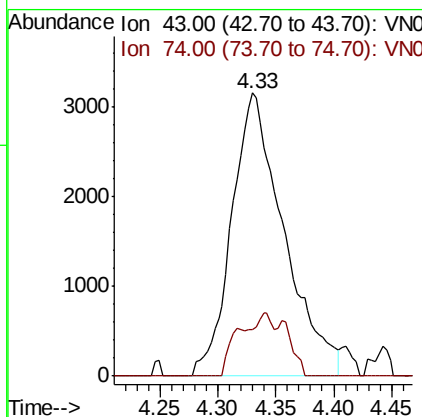
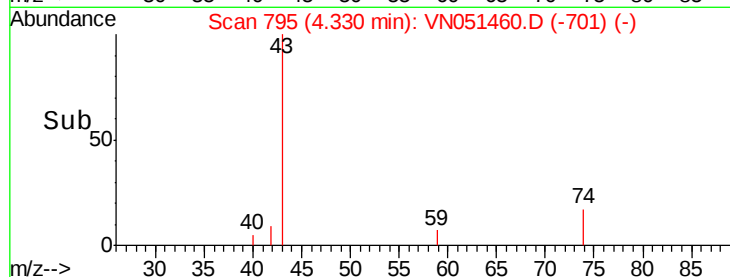
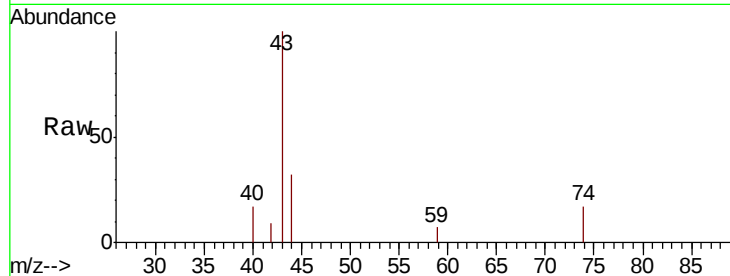




#18
Methyl Acetate
Concen: 1.545 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

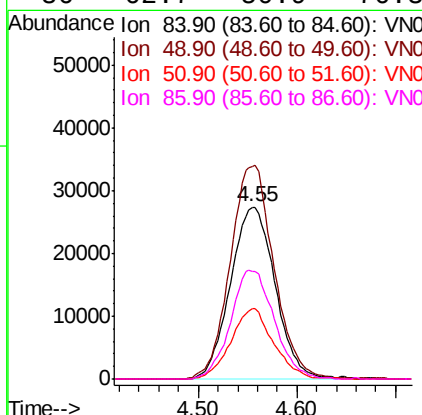
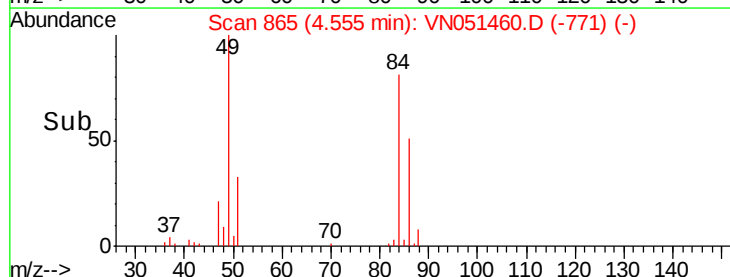
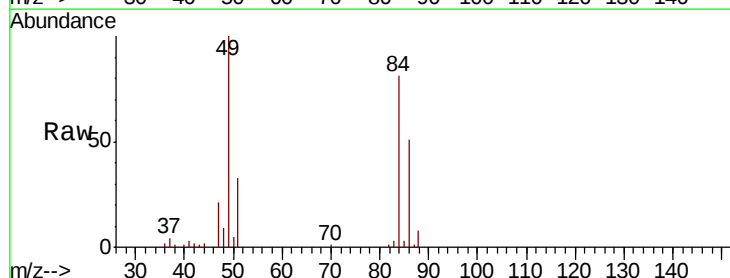
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ClientSampleId :
JC-02-092118-G

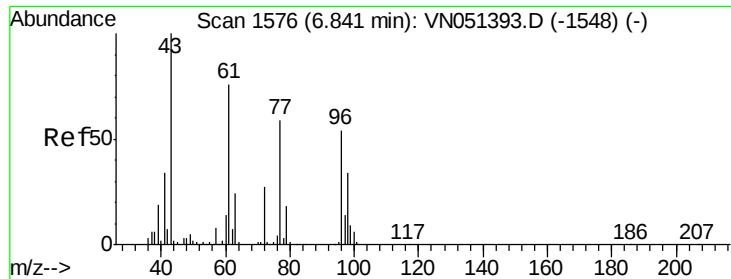
Tot Ion: 43 Resp: 9829
Ion Ratio Lower Upper
43 100
74 2.4 18.8 28.2#



#20
Methylene Chloride
Concen: 10.426 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

Tgt Ion: 84 Resp: 86152
Ion Ratio Lower Upper
84 100
49 123.2 99.9 149.9
51 40.7 31.4 47.2
86 62.7 50.9 76.3

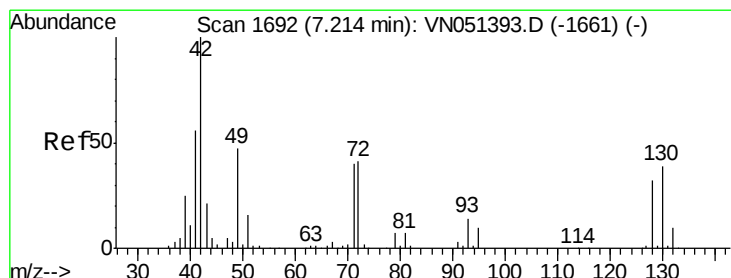
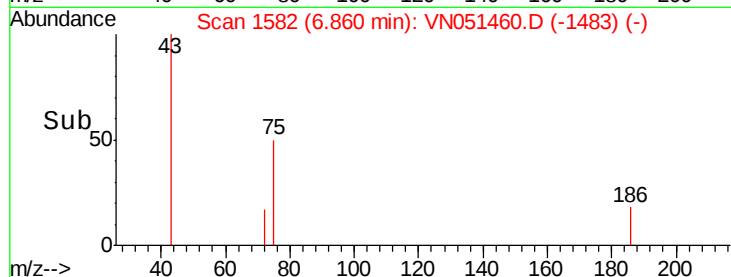
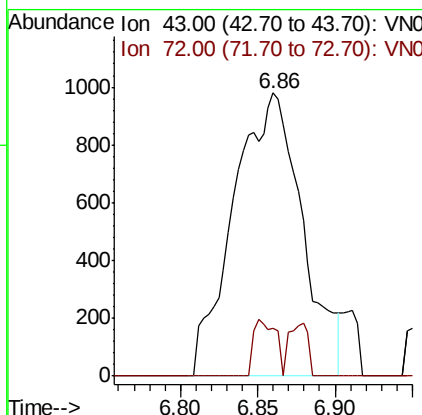
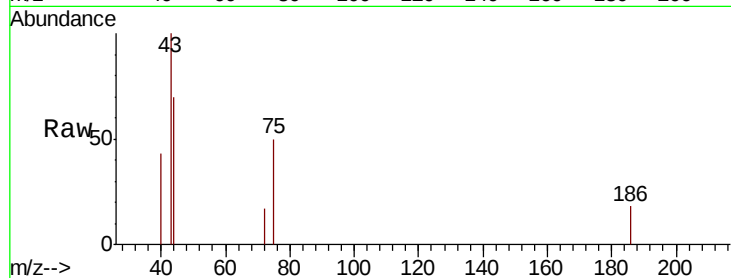




#25
 2-Butanone
 Concen: 1.053 ug/l
 RT: 6.86 min Scan# 1582
 Delta R.T. 0.02 min
 Lab File: VN051460.D
 Acq: 24 Sep 2018 14:44

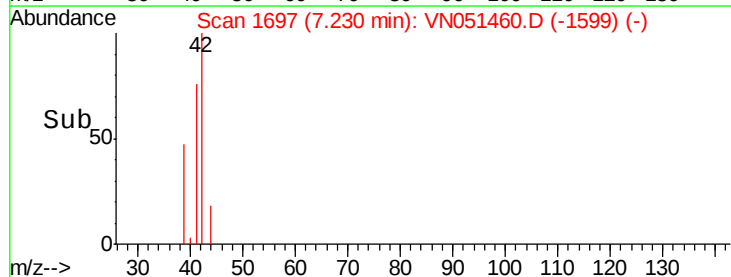
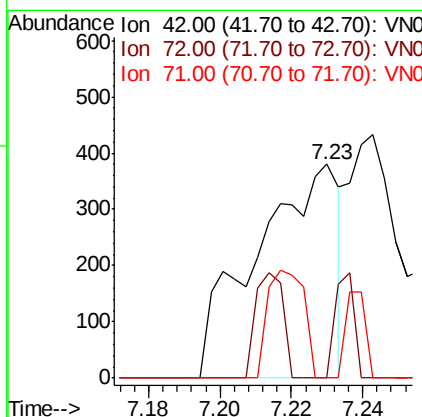
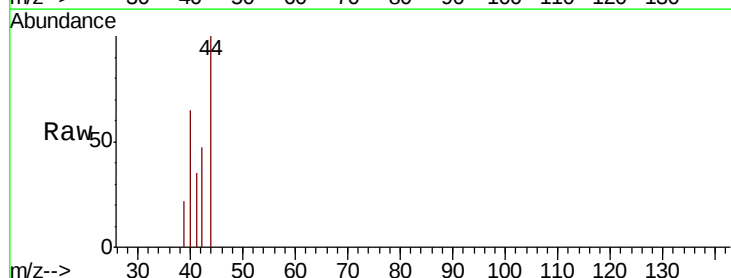
Instrument :
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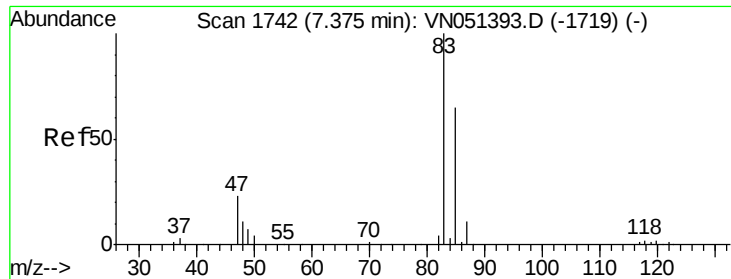
Tot Ion: 43 Resp: 3011
 Ion Ratio Lower Upper
 43 100
 72 17.1 21.8 32.6#



#29
 Tetrahydrofuran
 Concen: 0.336 ug/l
 RT: 7.23 min Scan# 1697
 Delta R.T. 0.02 min
 Lab File: VN051460.D
 Acq: 24 Sep 2018 14:44

Tgt Ion: 42 Resp: 609
 Ion Ratio Lower Upper
 42 100
 72 11.2 34.3 51.5#
 71 9.7 32.2 48.4#

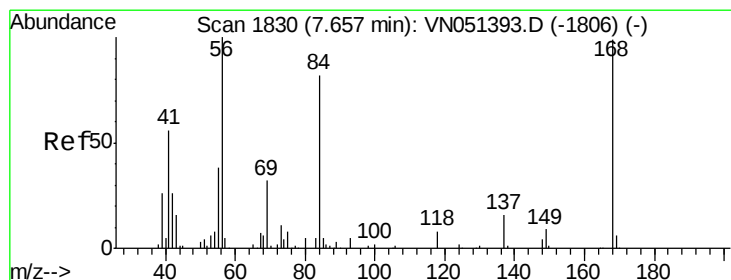
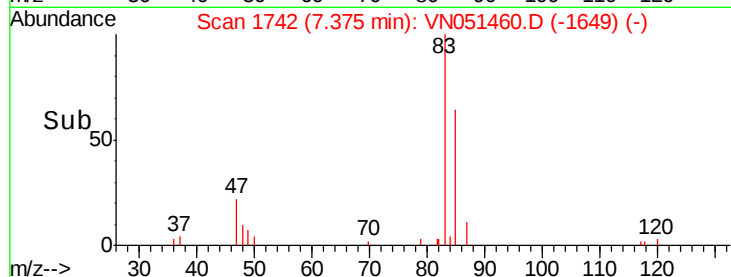
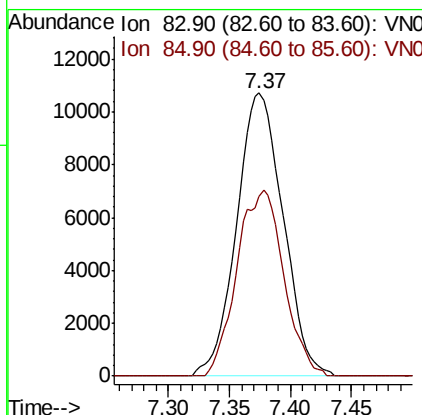
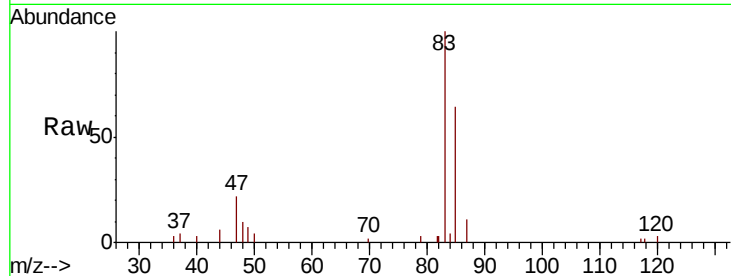




#30
Chloroform
Concen: 1.991 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

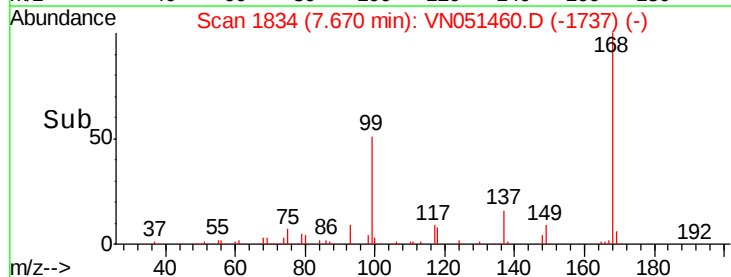
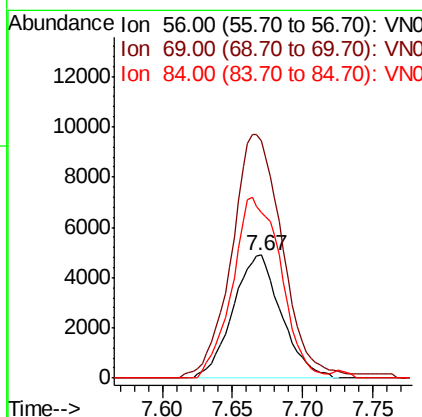
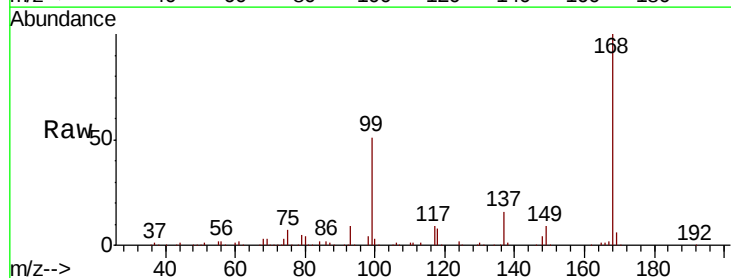
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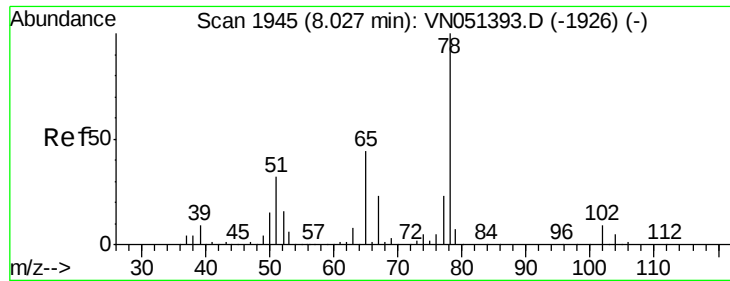
Tot Ion: 83 Resp: 28309
Ion Ratio Lower Upper
83 100
85 63.6 51.8 77.6



#31
Cyclohexane
Concen: 0.891 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

Tgt Ion: 56 Resp: 11719
Ion Ratio Lower Upper
56 100
69 187.8 25.8 38.6#
84 135.1 66.0 99.0#

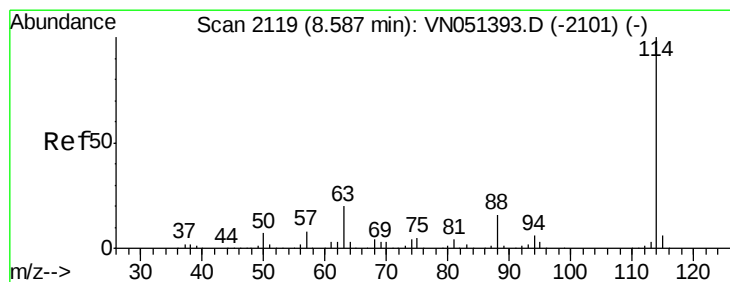
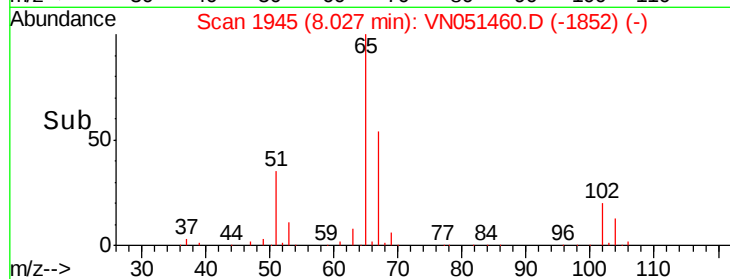
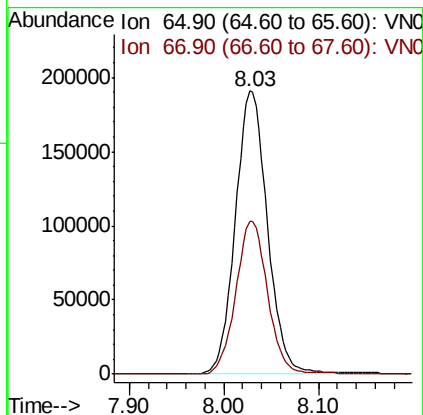
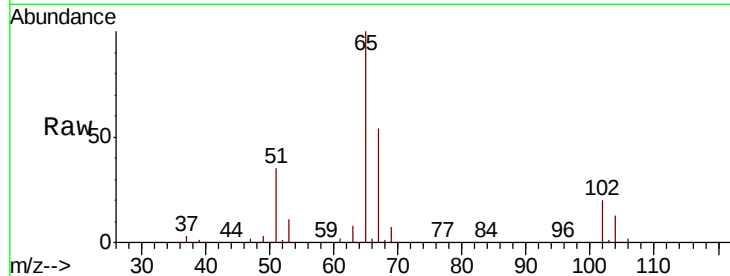




#33
 1,2-Dichloroethane-d4
 Concen: 53.874 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051460.D
 Acq: 24 Sep 2018 14:44

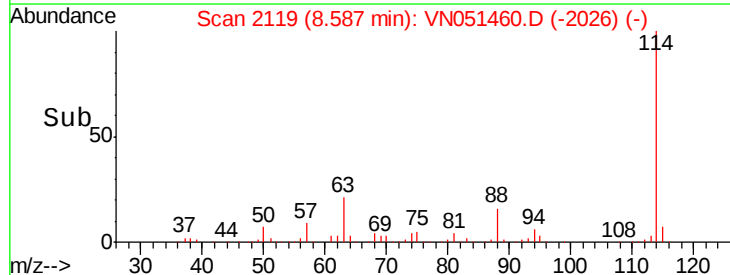
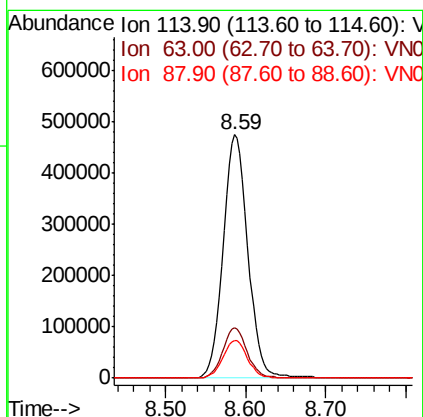
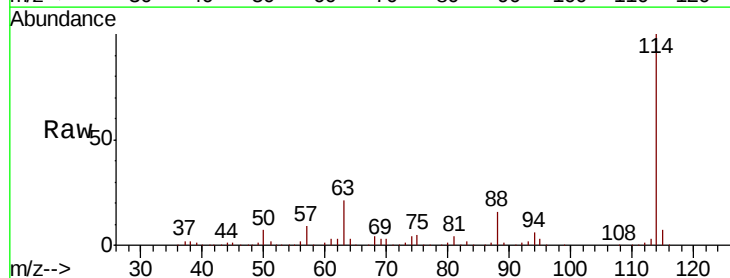
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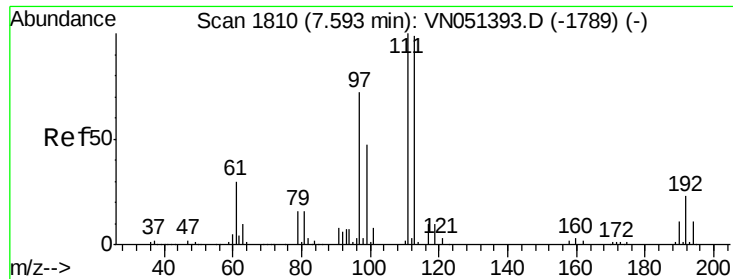
Tot Ion: 65 Resp: 449893
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051460.D
 Acq: 24 Sep 2018 14:44

Tgt Ion: 114 Resp: 1009002
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.2
 88 15.6 0.0 31.4

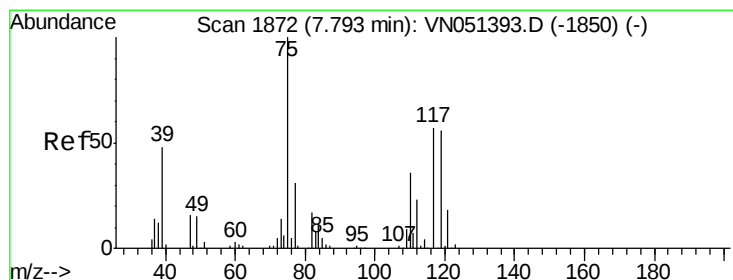
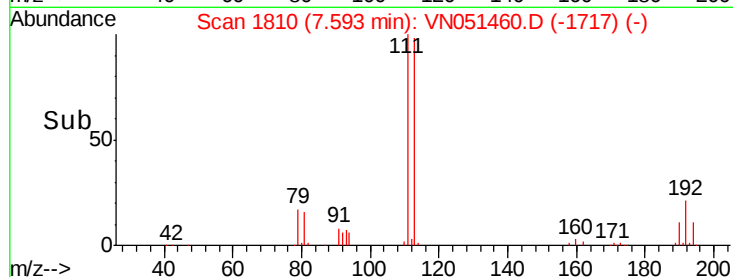
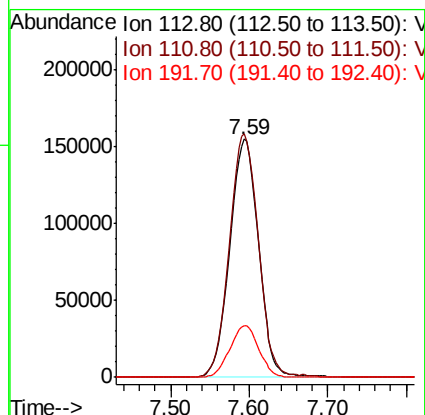
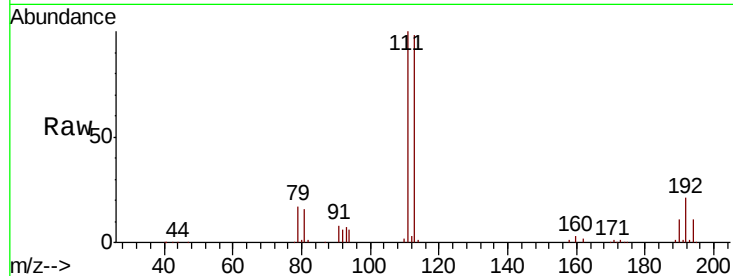




#35
 Dibromofluoromethane
 Concen: 48.853 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051460.D
 Acq: 24 Sep 2018 14:44

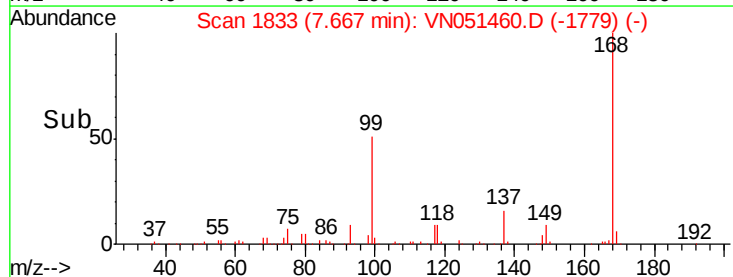
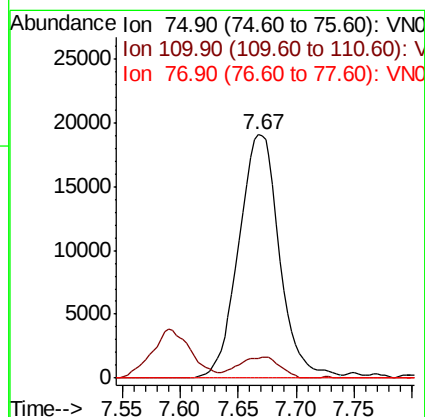
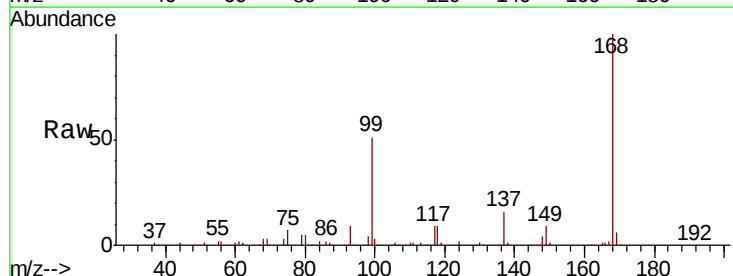
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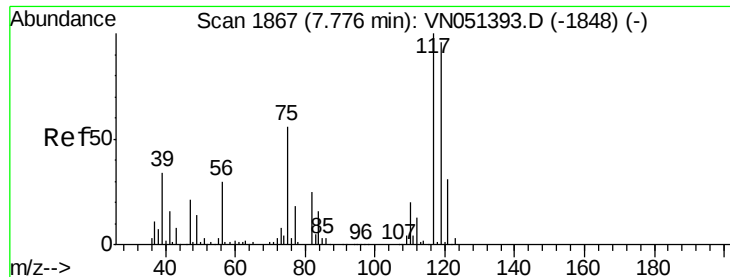
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	21.7	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.998 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051460.D
 Acq: 24 Sep 2018 14:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.864 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051460.D

Acq: 24 Sep 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-G

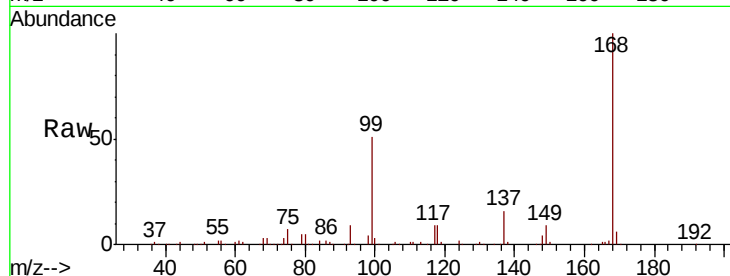
Tot Ion:117 Resp: 59444

Ion Ratio Lower Upper

117 100

119 5.9 76.9 115.3#

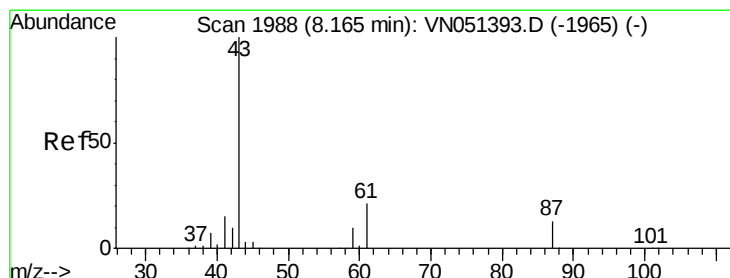
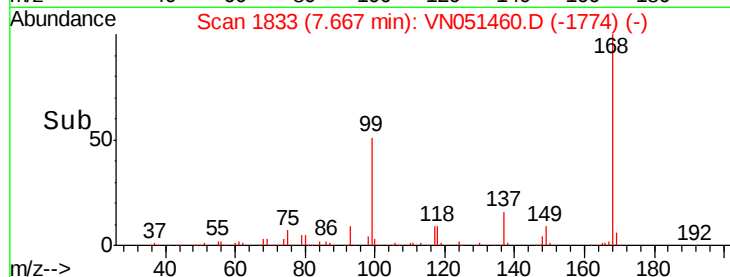
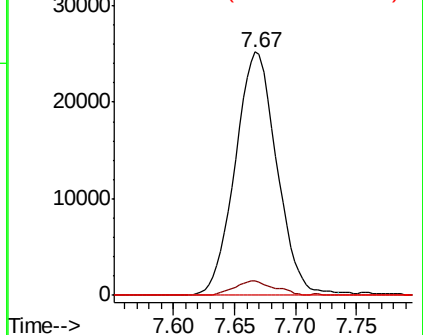
121 0.0 24.6 37.0#



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: 17.372 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051460.D

Acq: 24 Sep 2018 14:44

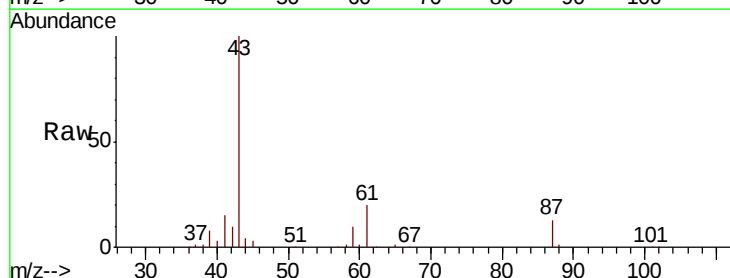
Tgt Ion: 43 Resp: 211032

Ion Ratio Lower Upper

43 100

61 19.3 16.8 25.2

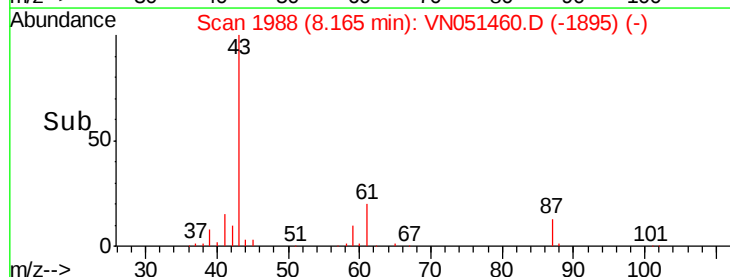
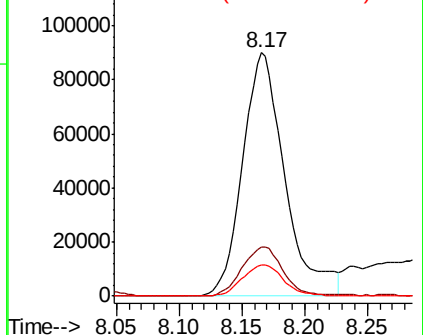
87 12.4 10.7 16.1

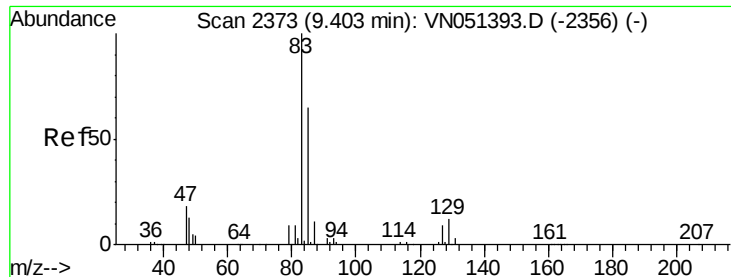


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

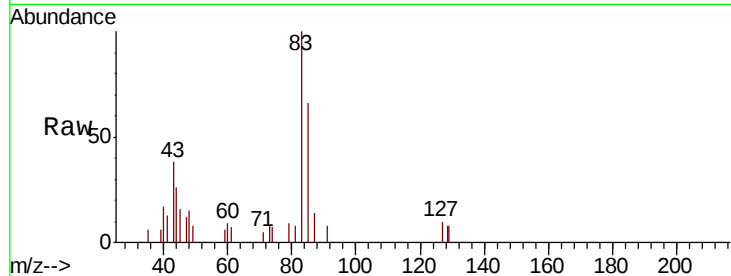




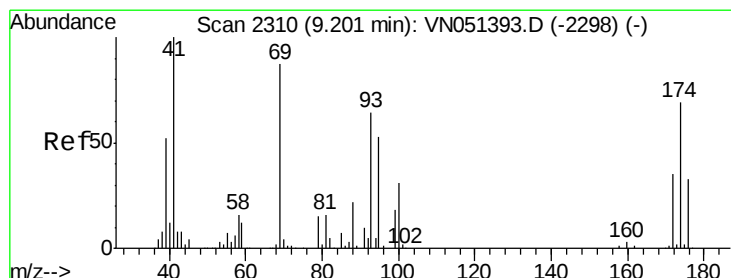
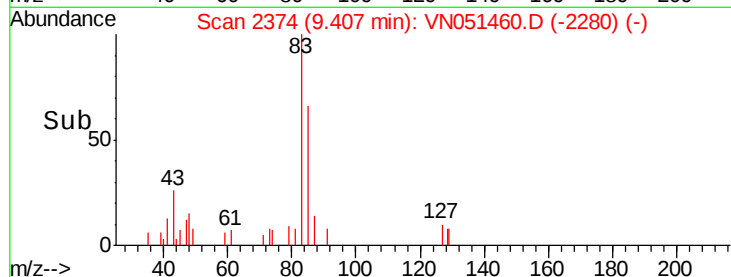
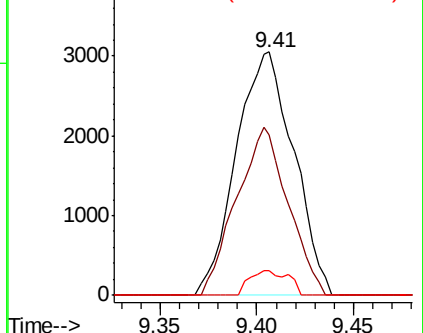
#47
Bromodichloromethane
Concen: 0.542 ug/l
RT: 9.41 min Scan# 2374
Delta R.T. 0.00 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-G

Tot Ion: 83 Resp: 6318
Ion Ratio Lower Upper
83 100
85 65.8 51.8 77.6
127 10.0 7.4 11.2

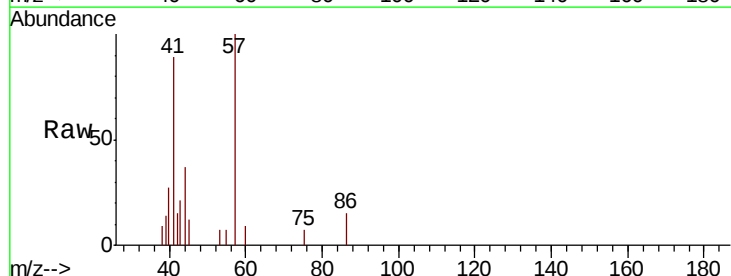


Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 84.90 (84.60 to 85.60): VNC
Ion 126.80 (126.50 to 127.50): V

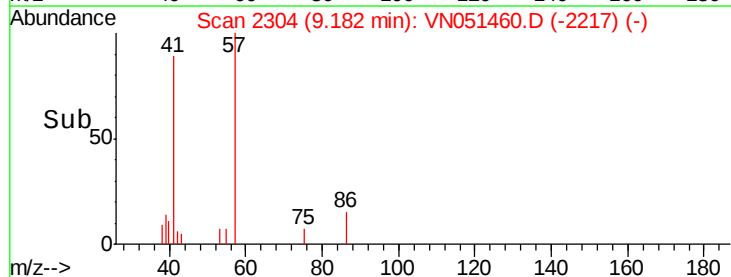
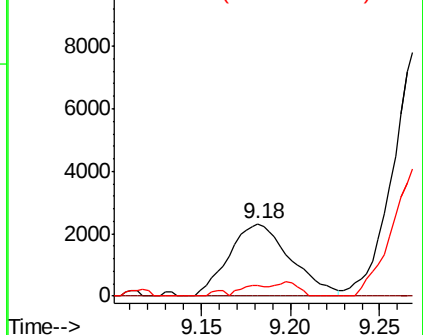


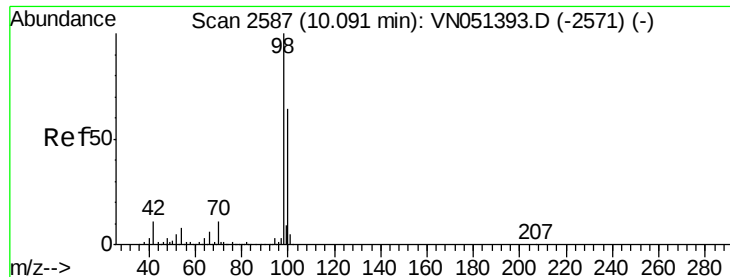
#48
Methyl methacrylate
Concen: 0.919 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

Tgt Ion: 41 Resp: 5564
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 6.9 43.8 65.8#



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





#50

Toluene-d8

Concen: 46.874 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051460.D

Acq: 24 Sep 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

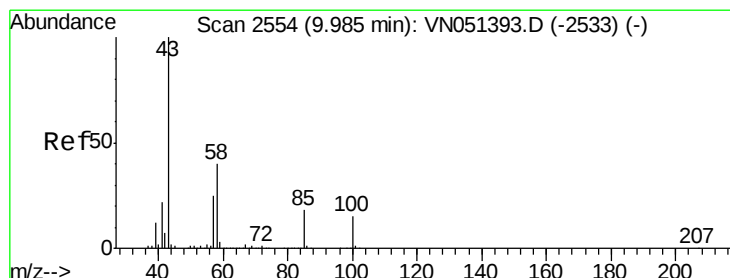
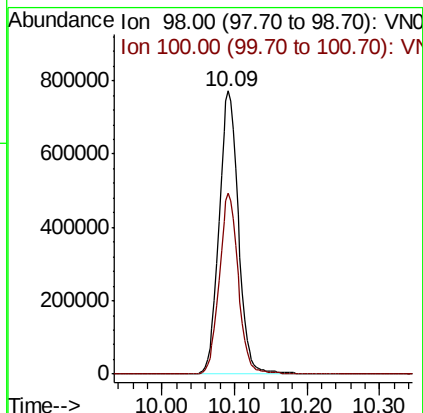
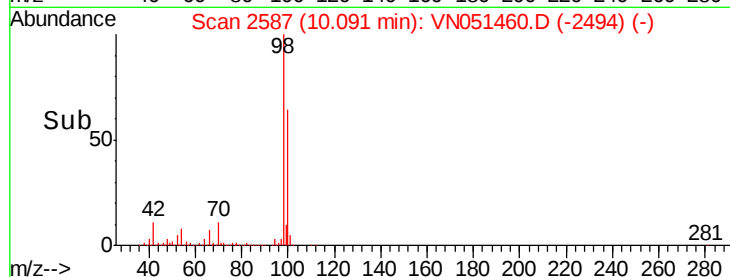
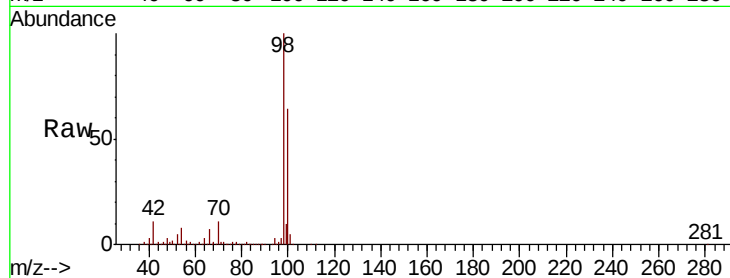
JC-02-092118-G

Tot Ion: 98 Resp: 1424187

Ion Ratio Lower Upper

98 100

100 62.9 50.6 75.8



#51

4-Methyl-2-Pentanone

Concen: 0.224 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051460.D

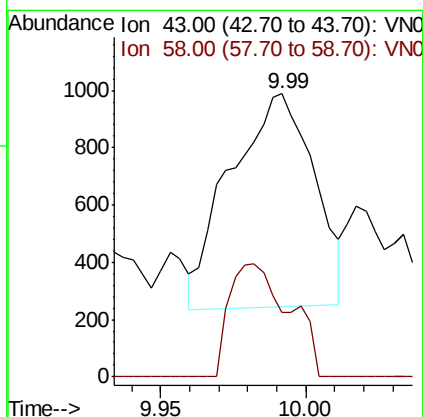
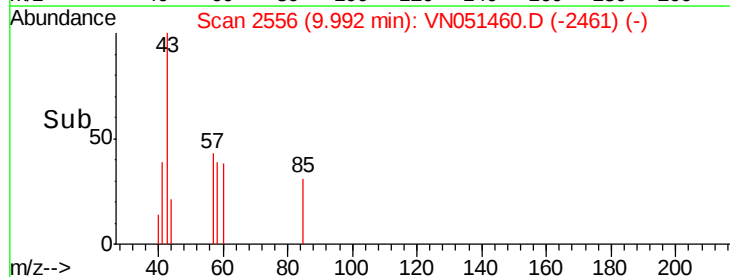
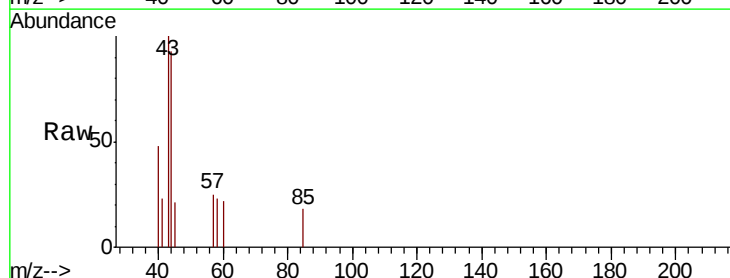
Acq: 24 Sep 2018 14:44

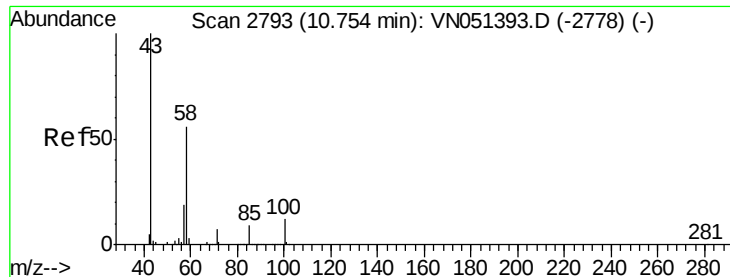
Tgt Ion: 43 Resp: 1494

Ion Ratio Lower Upper

43 100

58 37.6 31.5 47.3

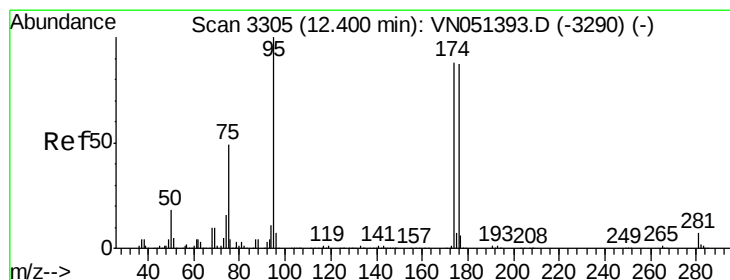
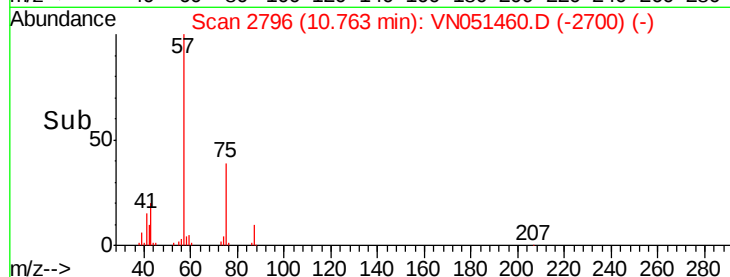
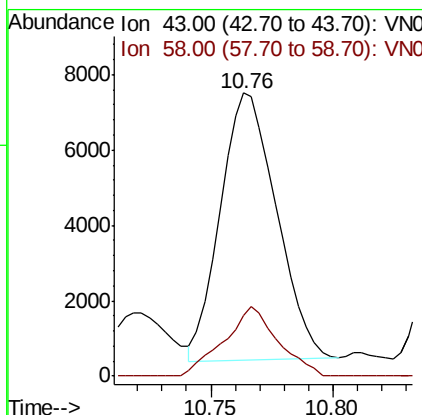
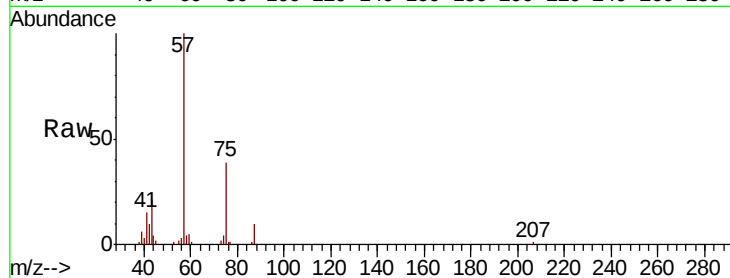




#59
2-Hexanone
Concen: 2.614 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

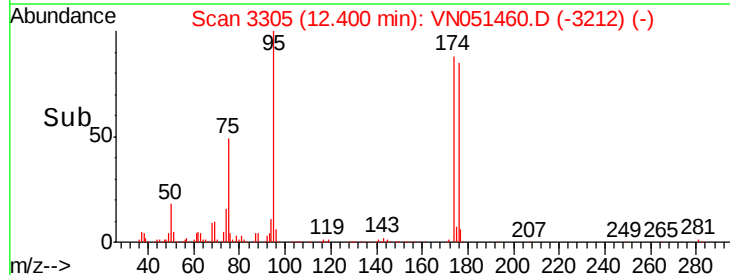
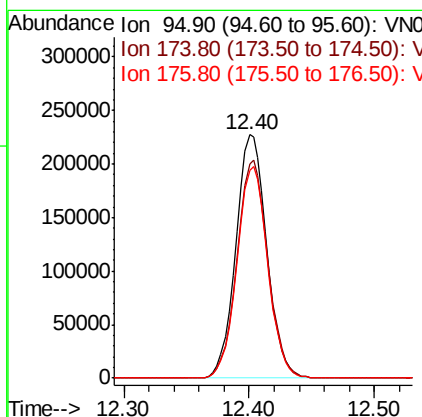
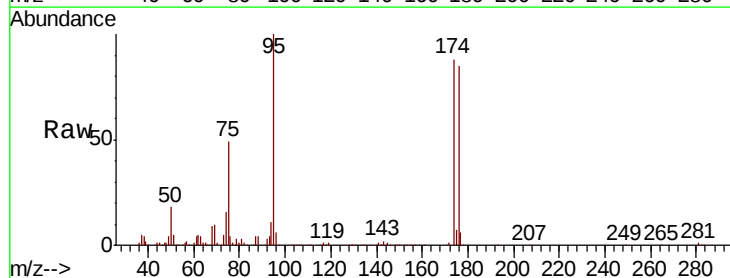
Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-G

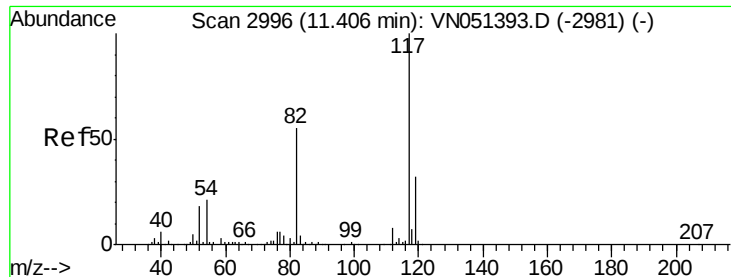
Tot Ion: 43 Resp: 11321
Ion Ratio Lower Upper
43 100
58 24.9 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 39.431 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

Tgt Ion: 95 Resp: 387566
Ion Ratio Lower Upper
95 100
174 89.7 0.0 181.6
176 86.8 0.0 176.4

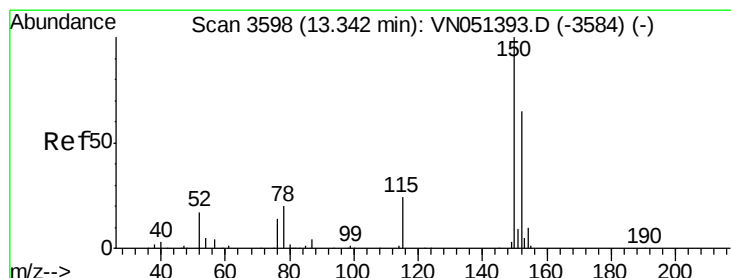
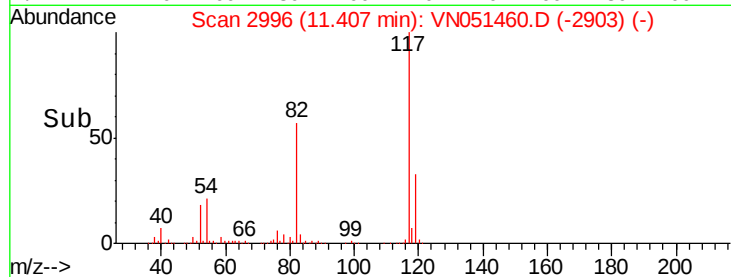
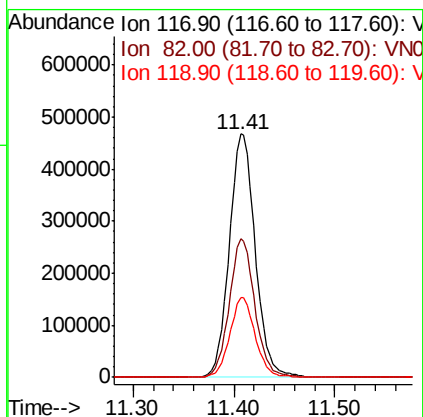
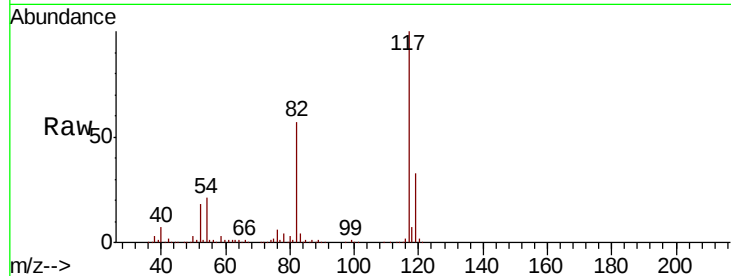




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

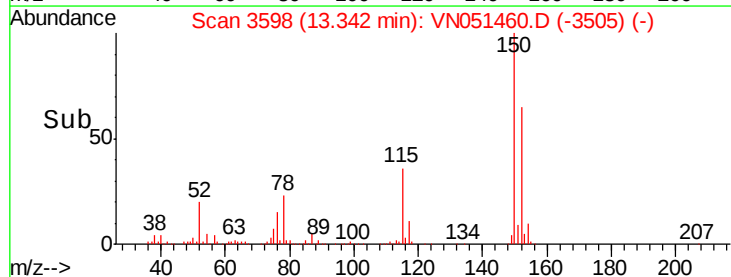
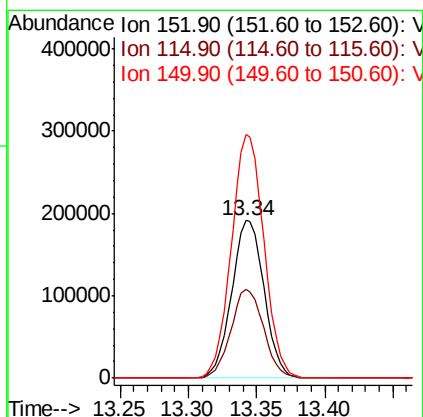
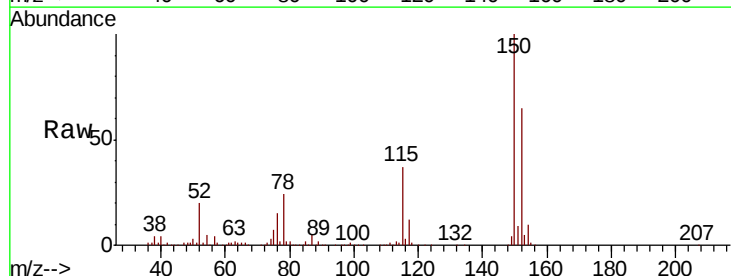
Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-G

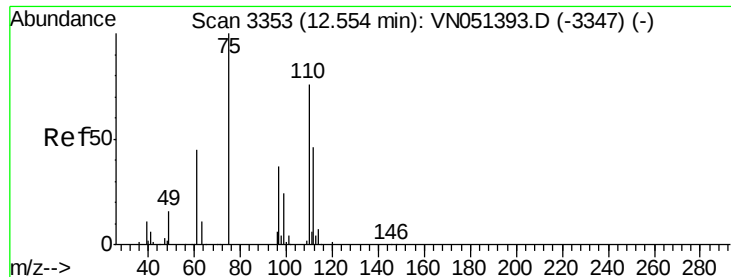
Tot Ion:117 Resp: 838922
Ion Ratio Lower Upper
117 100
82 57.0 44.2 66.2
119 32.7 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN051460.D
Acq: 24 Sep 2018 14:44

Tgt Ion:152 Resp: 316141
Ion Ratio Lower Upper
152 100
115 56.7 28.3 84.9
150 154.8 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 36.073 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051460.D

Acq: 24 Sep 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

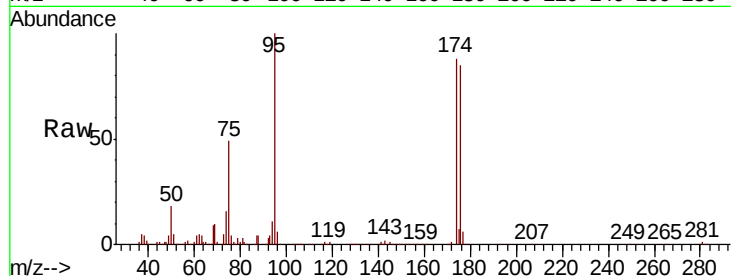
JC-02-092118-G

Tot Ion: 75 Resp: 189317

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

120000

100000

80000

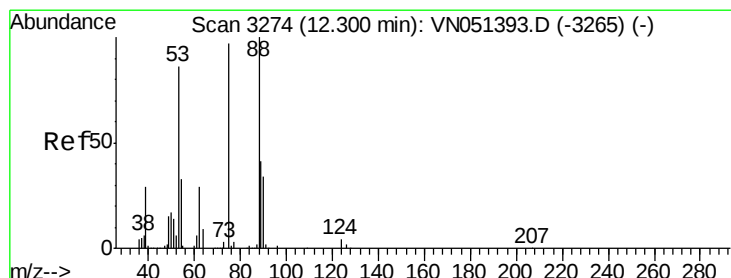
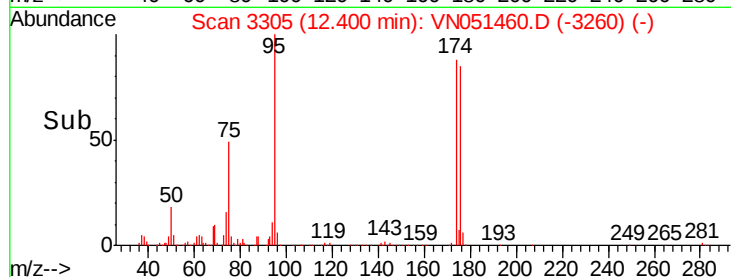
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 110.922 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051460.D

Acq: 24 Sep 2018 14:44

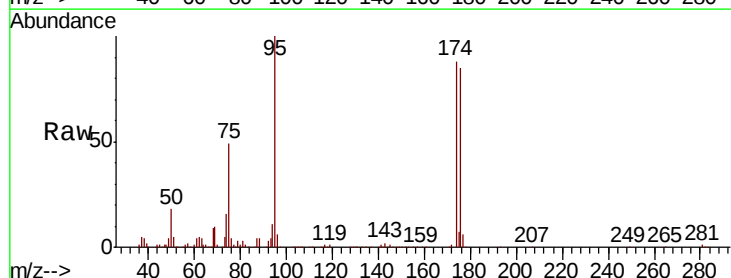
Tgt Ion: 75 Resp: 189317

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

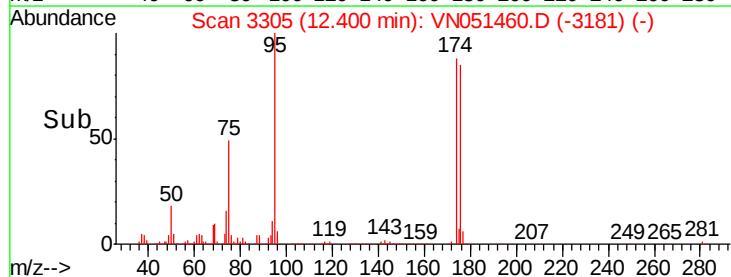
150000

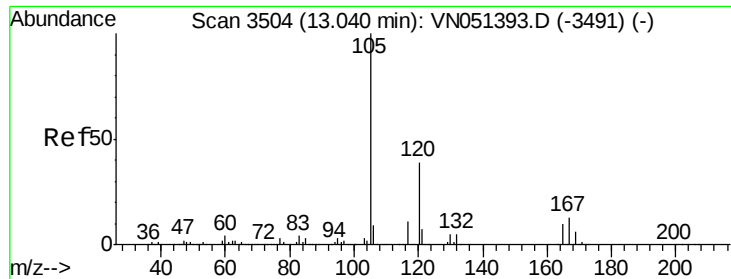
100000

50000

0

Time--> 12.30 12.40 12.50





#84

1,2,4-Trimethylbenzene

Concen: 0.252 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051460.D

Acq: 24 Sep 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

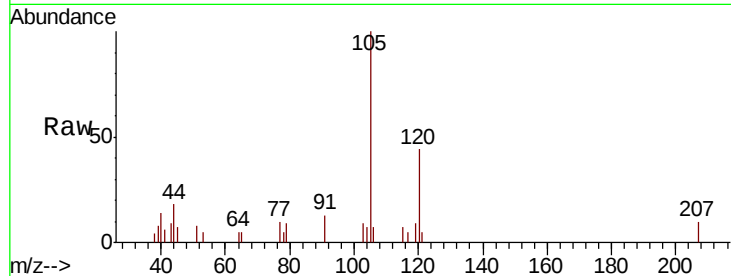
JC-02-092118-G

Tot Ion:105 Resp: 5528

Ion Ratio Lower Upper

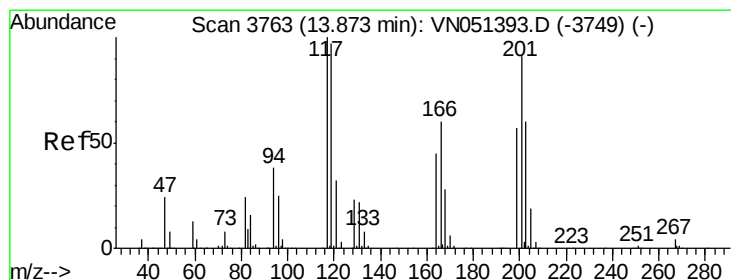
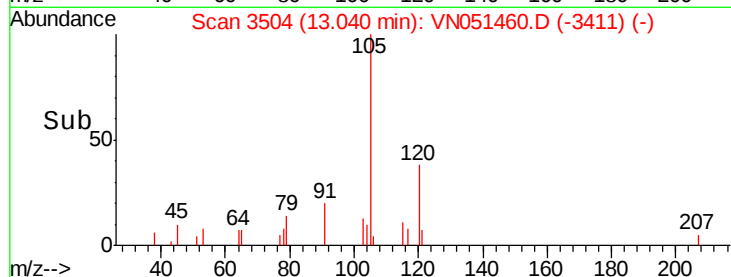
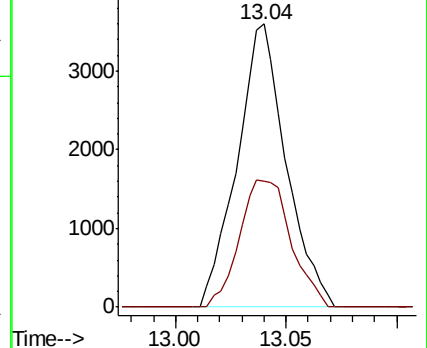
105 100

120 47.2 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 0.244 ug/l

RT: 13.88 min Scan# 3766

Delta R.T. 0.01 min

Lab File: VN051460.D

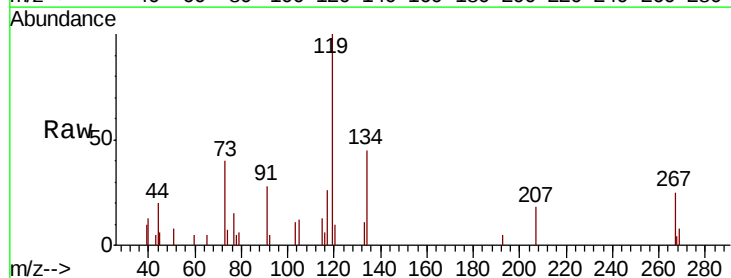
Acq: 24 Sep 2018 14:44

Tgt Ion:117 Resp: 1100

Ion Ratio Lower Upper

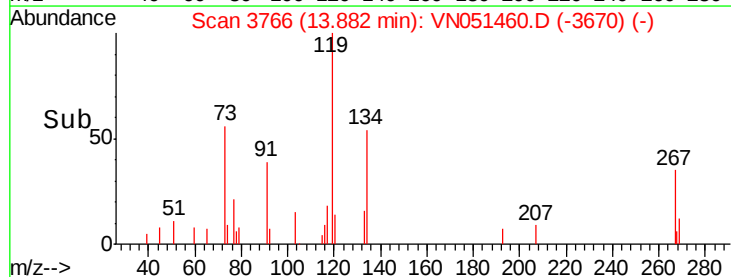
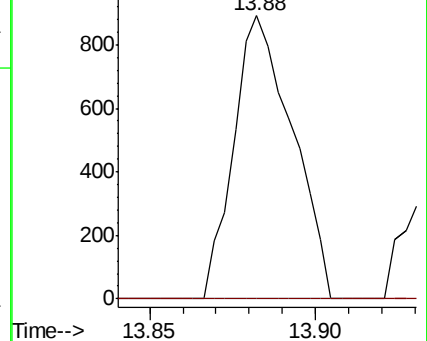
117 100

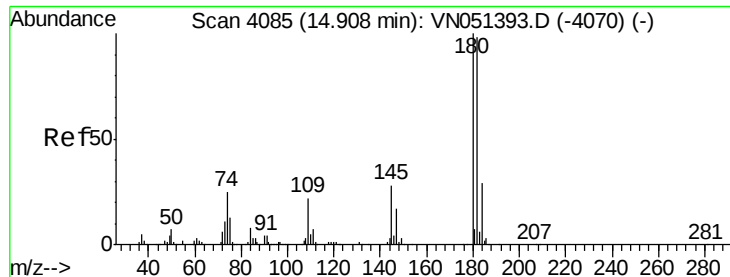
201 0.0 45.5 136.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#93

1,2,4-Trichlorobenzene

Concen: 6.008 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN051460.D

Acq: 24 Sep 2018 14:44

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-G

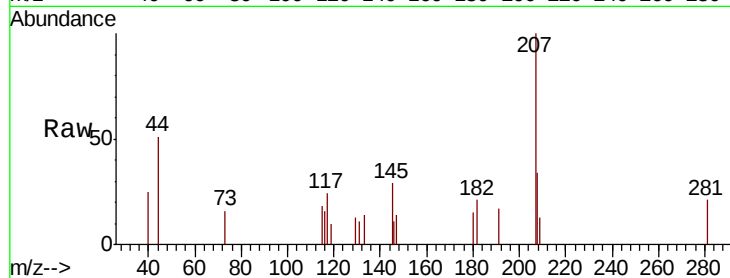
Tot Ion:180 Resp: 185

Ion Ratio Lower Upper

180 100

182 204.9 48.5 145.6#

145 337.3 14.1 42.4#

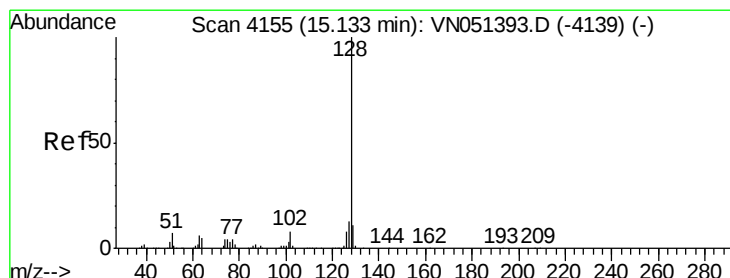
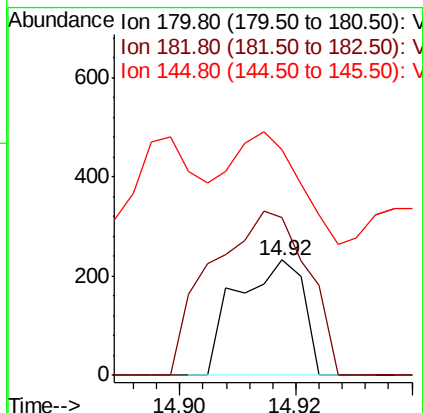
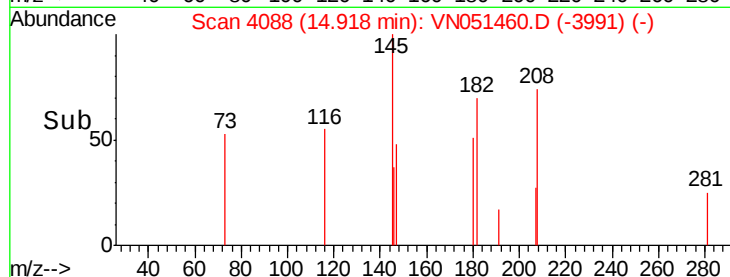


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

Time-->



#95

Naphthalene

Concen: 25.336 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051460.D

Acq: 24 Sep 2018 14:44

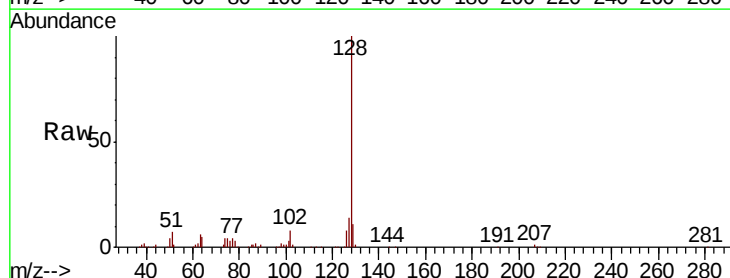
Tgt Ion:128 Resp: 242218

Ion Ratio Lower Upper

128 100

127 13.9 10.5 15.7

129 11.0 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-->

