

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049893.D
 Acq On : 19 Jul 2018 00:59
 Operator : MD\SY
 Sample : J3357-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 06:07:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 13:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	563321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	937169	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	753494	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	268809	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	402610	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
35) Dibromofluoromethane	7.59	113	358745	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	
50) Toluene-d8	10.09	98	1255073	43.78	ug/l	0.00
Spiked Amount			Recovery	=	87.56%	
62) 4-Bromofluorobenzene	12.40	95	327804	33.20	ug/l	0.00
Spiked Amount			Recovery	=	66.40%	

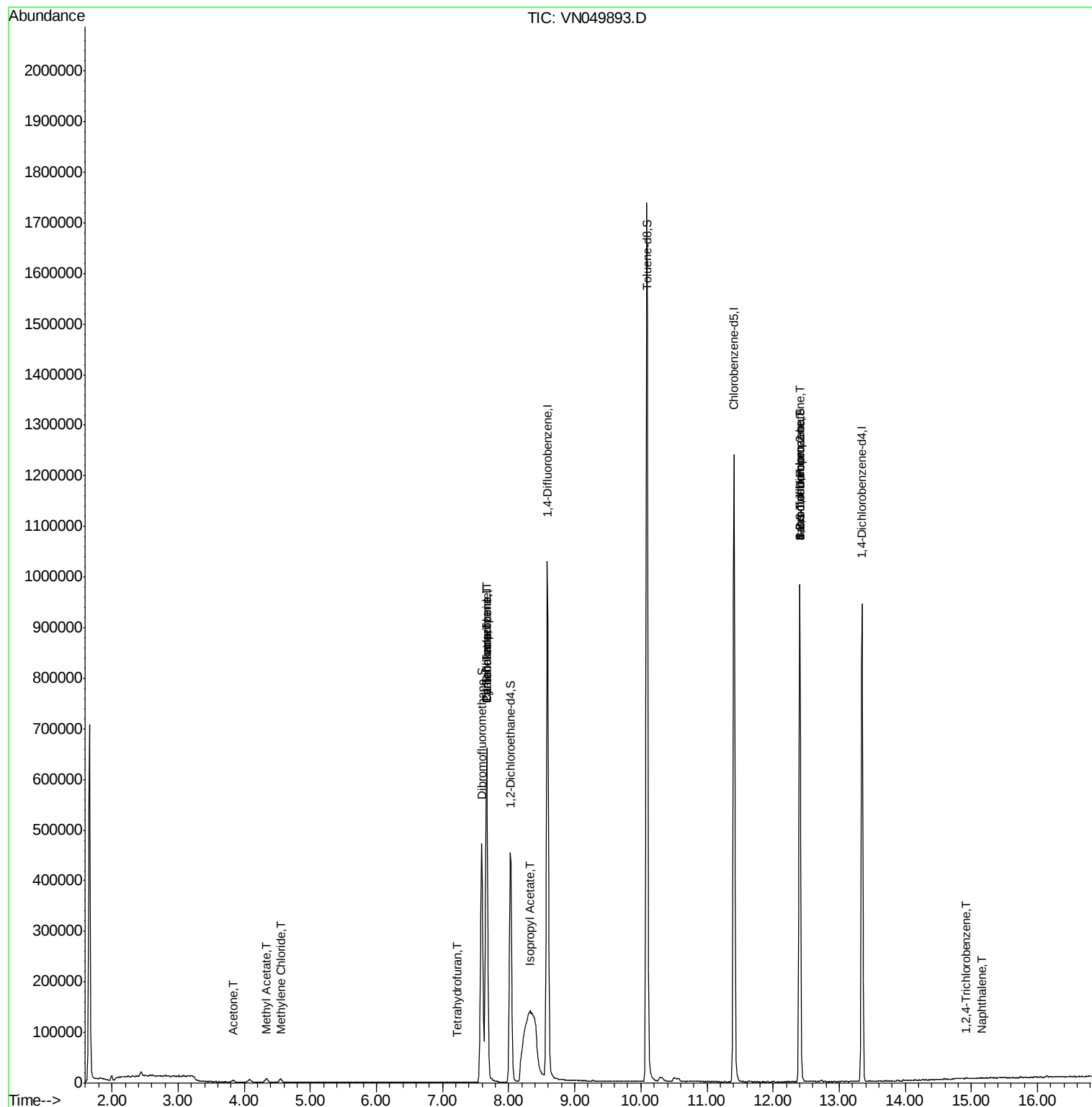
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	782	Below Cal		93
16) Acetone	3.83	43	5996	2.99	ug/l	98
18) Methyl Acetate	4.33	43	13536	1.35	ug/l	95
20) Methylene Chloride	4.55	84	4430	0.58	ug/l	98
29) Tetrahydrofuran	7.21	42	374	0.21	ug/l #	32
31) Cyclohexane	7.67	56	10921	1.06	ug/l #	3
36) 1,1-Dichloropropene	7.66	75	40647	3.90	ug/l #	48
38) Carbon Tetrachloride	7.67	117	52057	4.66	ug/l #	16
43) Isopropyl Acetate	8.32	43	344102	27.53	ug/l #	63
71) Bromoform	12.40	173	3223	0.61	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	159001	31.53	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	159001	98.60	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	311	3.53	ug/l #	51
95) Naphthalene	15.14	128	825	4.55	ug/l #	69

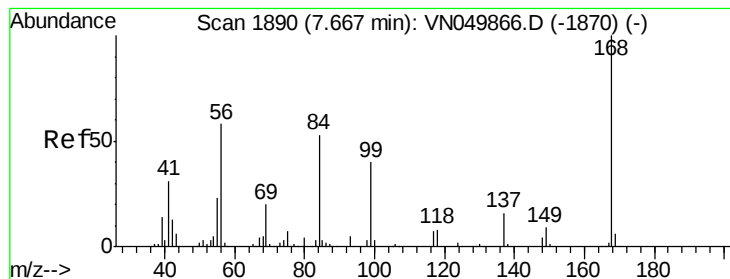
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

Instrument :

MSVOA_N

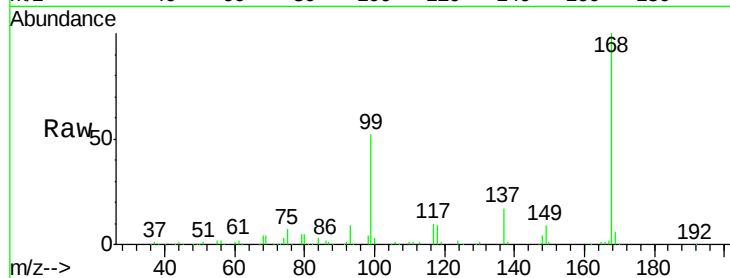
ClientSampled :

Tot Ion:168 Resp: 563321

Ion Ratio Lower Upper

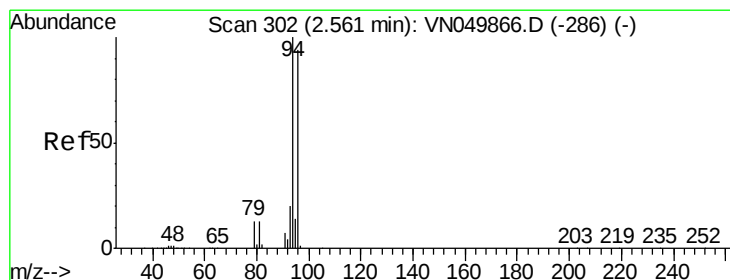
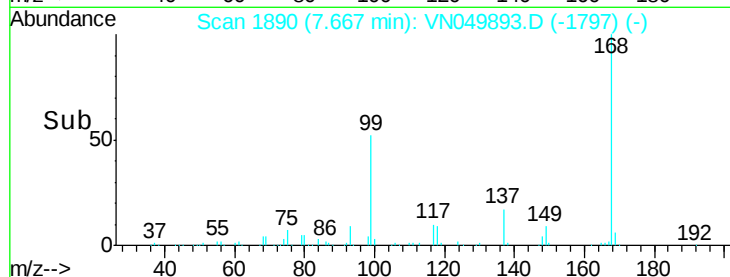
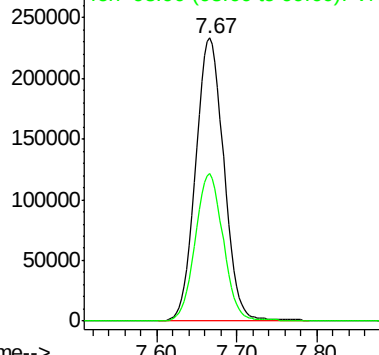
168 100

99 52.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049893.D

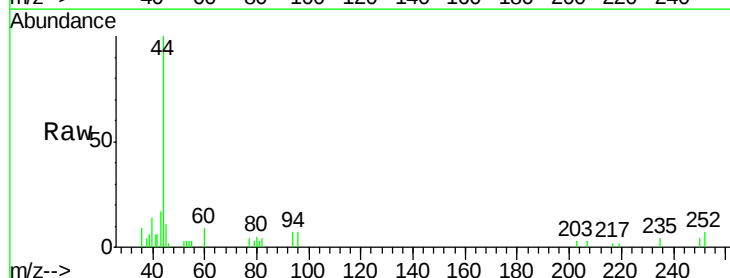
Acq: 19 Jul 2018 00:59

Tgt Ion: 94 Resp: 782

Ion Ratio Lower Upper

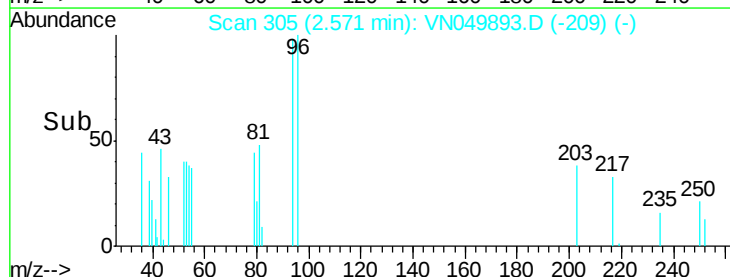
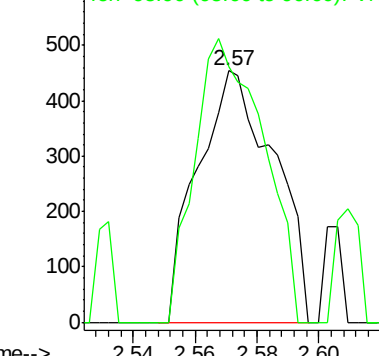
94 100

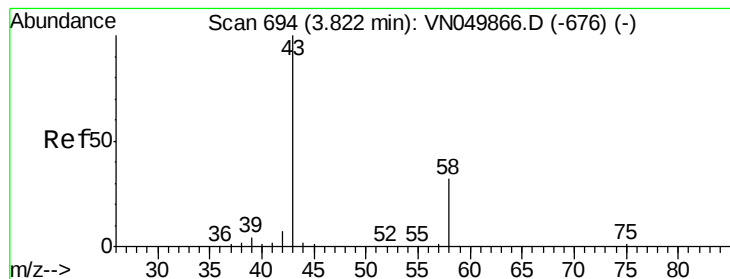
96 101.8 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#16

Acetone

Concen: 2.99 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

Instrument :

MSVOA_N

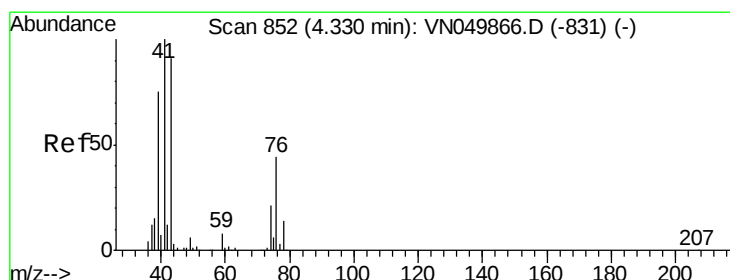
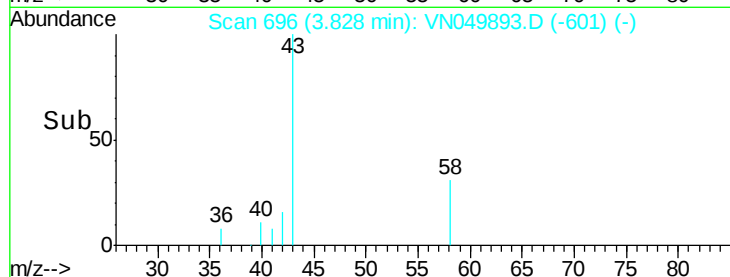
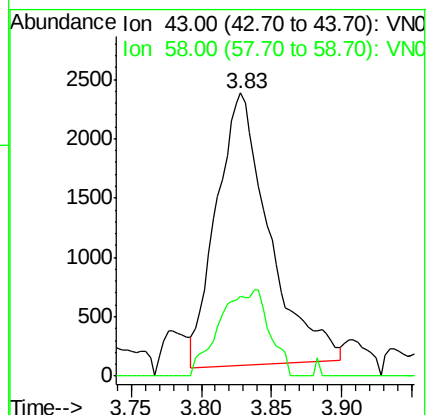
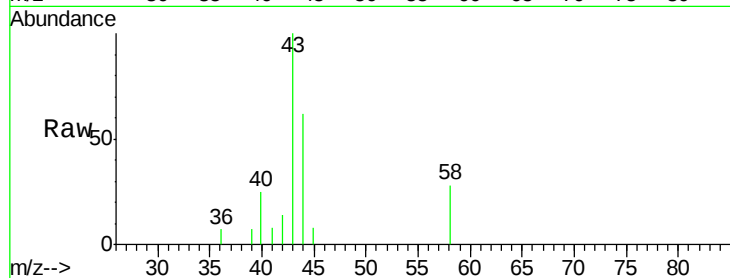
ClientSampled :

Tot Ion: 43 Resp: 5996

Ion Ratio Lower Upper

43 100

58 31.2 25.9 38.9



#18

Methyl Acetate

Concen: 1.35 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049893.D

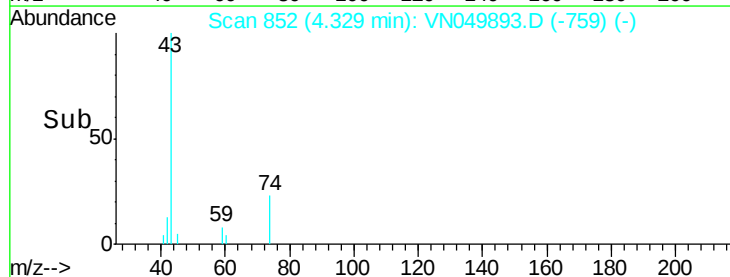
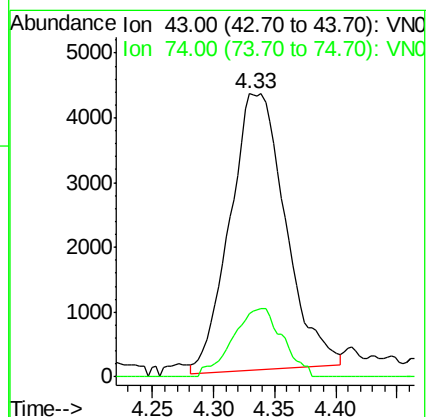
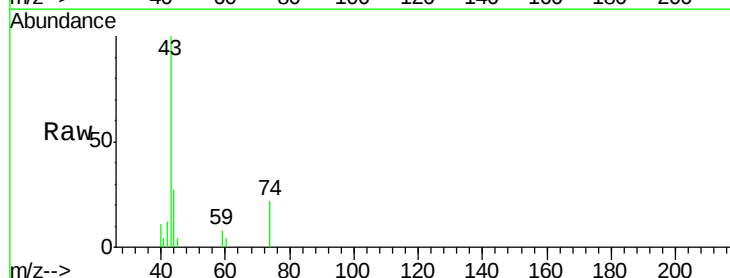
Acq: 19 Jul 2018 00:59

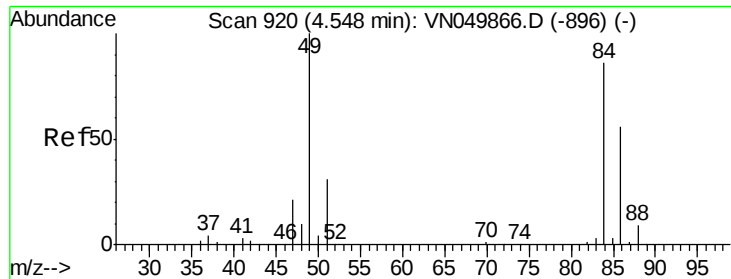
Tgt Ion: 43 Resp: 13536

Ion Ratio Lower Upper

43 100

74 22.3 19.8 29.8





#20

Methvlene Chloride

Concen: 0.58 ug/l

RT: 4.55 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 4430

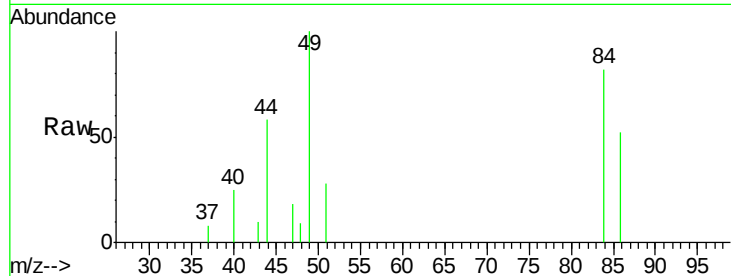
Ion Ratio Lower Upper

84 100

49 121.6 95.4 143.2

51 34.4 28.4 42.6

86 63.9 52.6 79.0

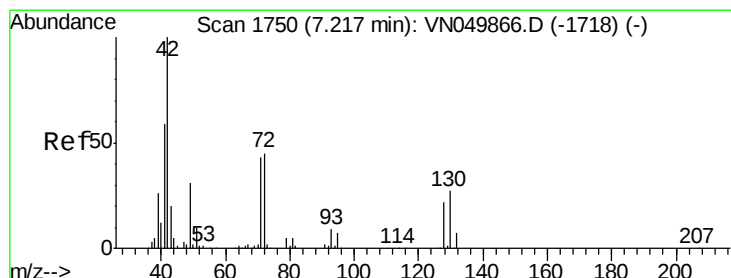
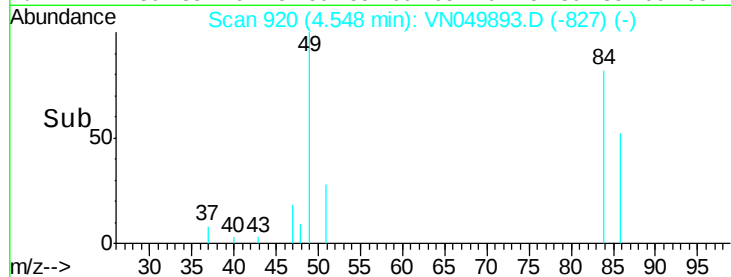
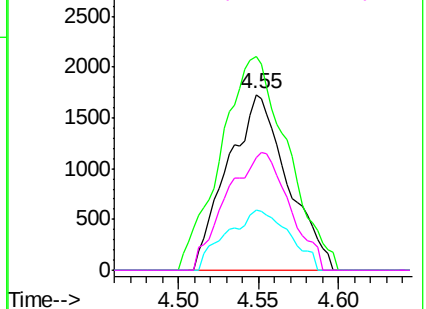


Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC



#29

Tetrahydrofuran

Concen: 0.21 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

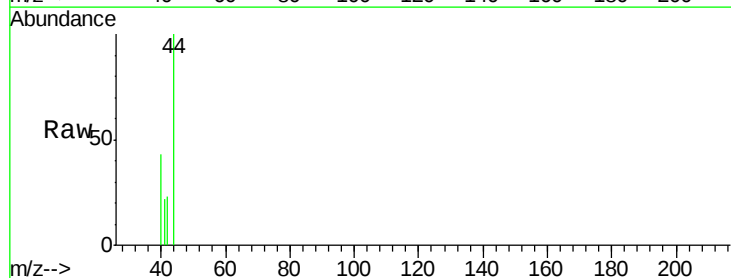
Tgt Ion: 42 Resp: 374

Ion Ratio Lower Upper

42 100

72 0.0 35.6 53.4#

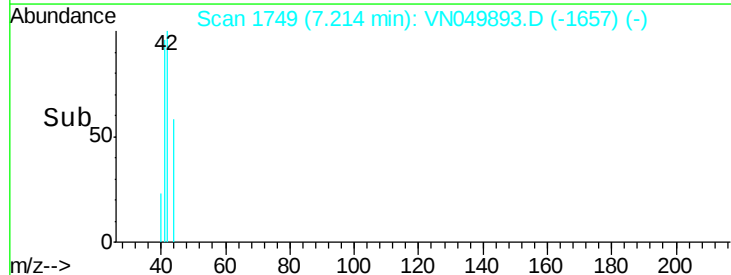
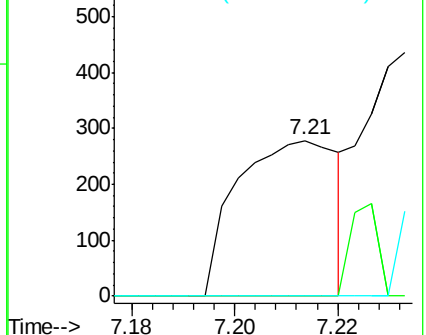
71 0.0 34.0 51.0#

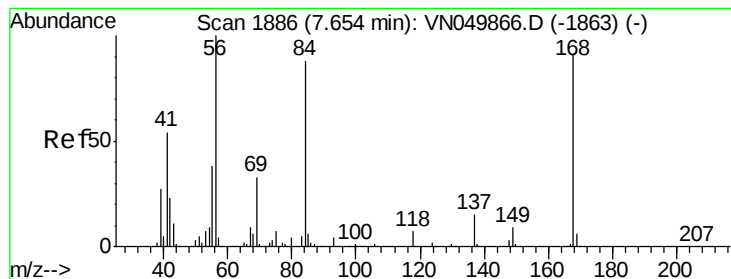


Abundance Ion 42.00 (41.70 to 42.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

Ion 71.00 (70.70 to 71.70): VNC





#31

Cyclohexane

Concen: 1.06 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

Instrument :

MSVOA_N

ClientSampled :

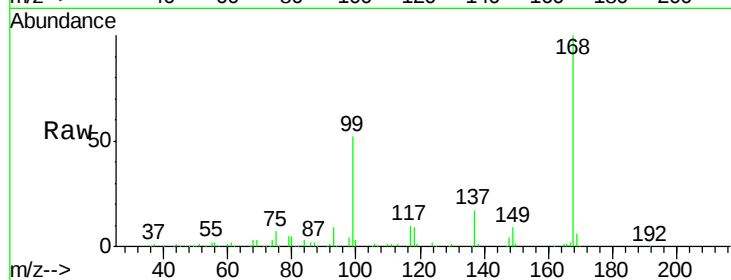
Tot Ion: 56 Resp: 10921

Ion Ratio Lower Upper

56 100

69 167.0 26.6 40.0#

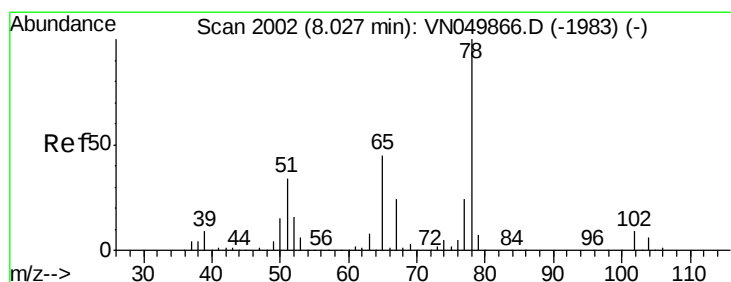
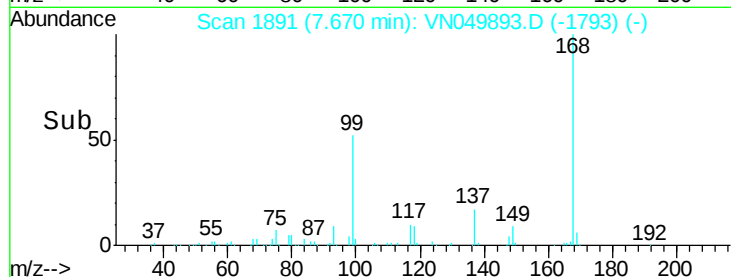
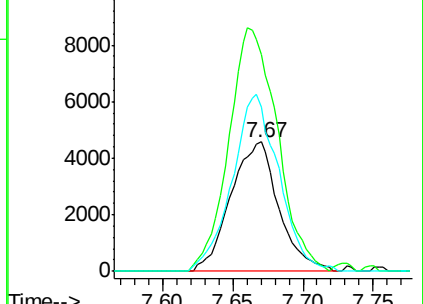
84 126.8 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN049866.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.00 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN049893.D

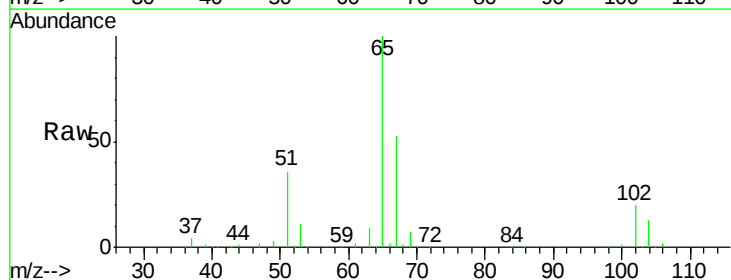
Acq: 19 Jul 2018 00:59

Tgt Ion: 65 Resp: 402610

Ion Ratio Lower Upper

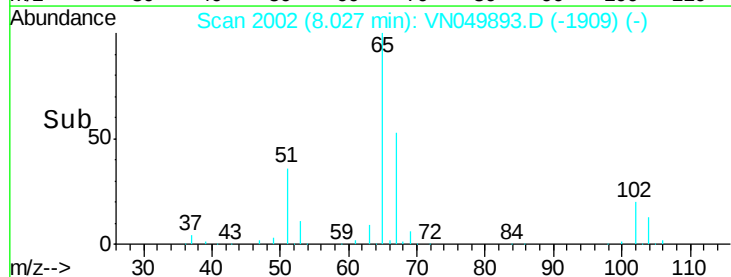
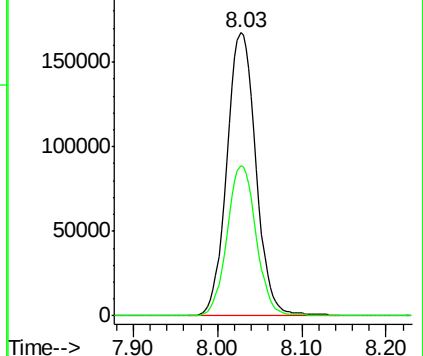
65 100

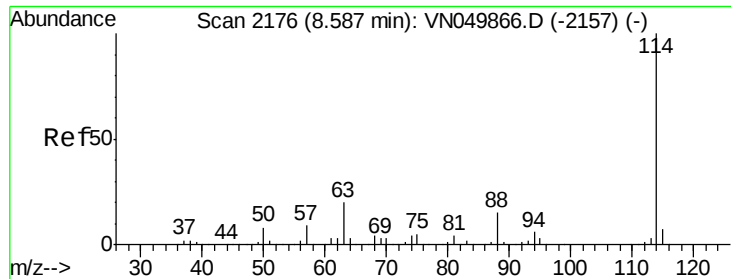
67 52.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049866.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049866.D (-1983) (-)

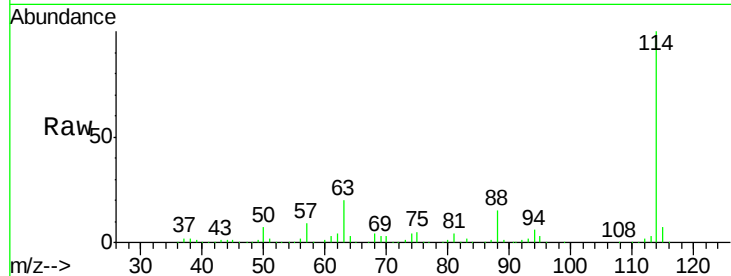




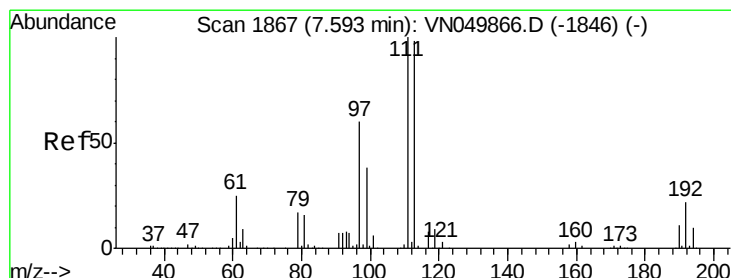
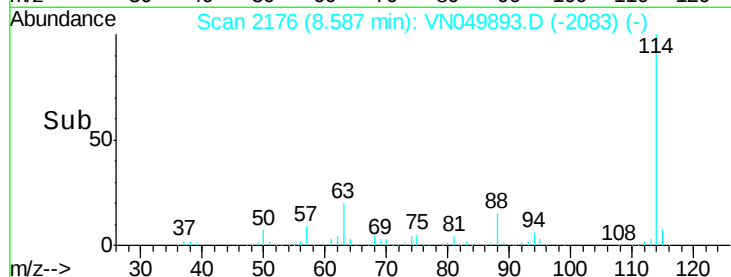
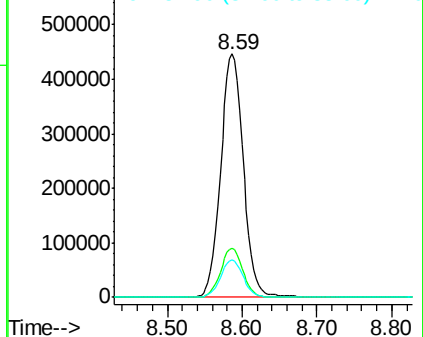
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049893.D
 Acq: 19 Jul 2018 00:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 937169
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.8
 88 15.3 0.0 30.6

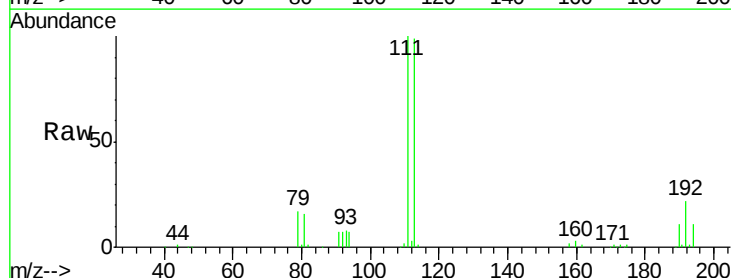


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

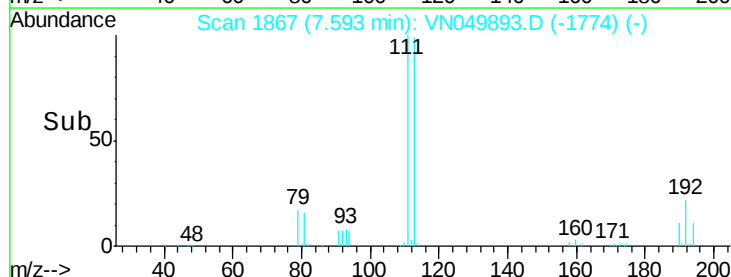
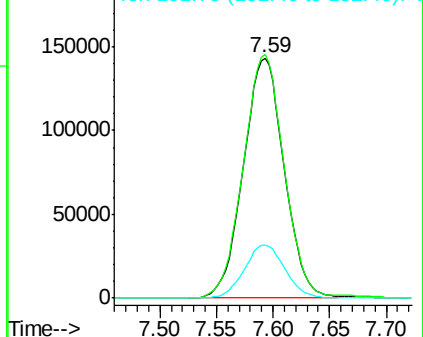


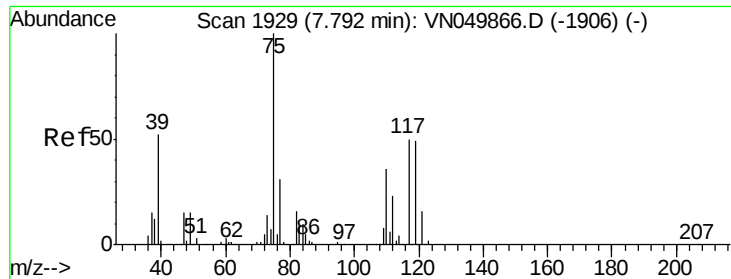
#35
 Dibromofluoromethane
 Concen: 45.60 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049893.D
 Acq: 19 Jul 2018 00:59

Tgt Ion:113 Resp: 358745
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.8 122.8
 192 22.1 17.8 26.6



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

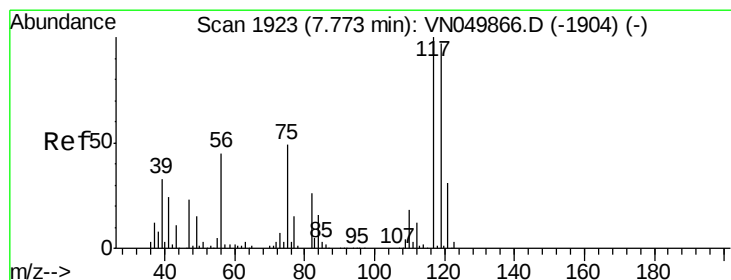
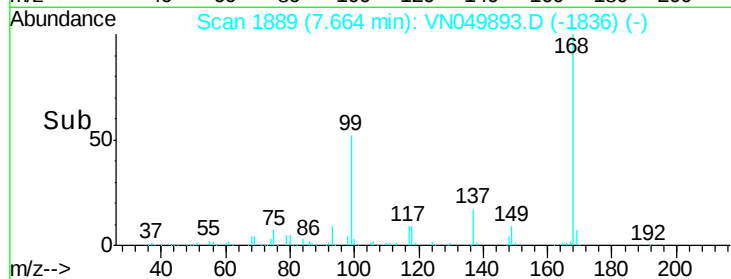
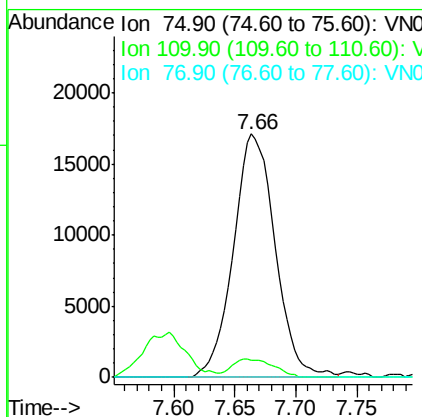
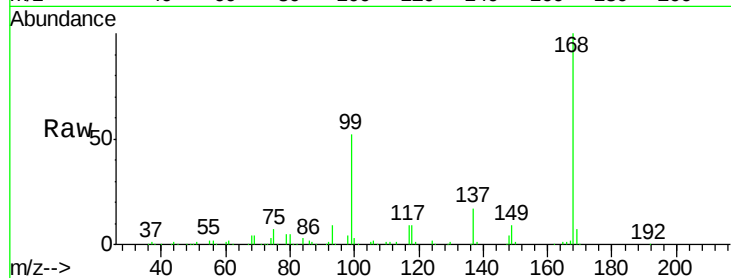




#36
 1,1-Dichloropropene
 Concen: 3.90 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN049893.D
 Acq: 19 Jul 2018 00:59

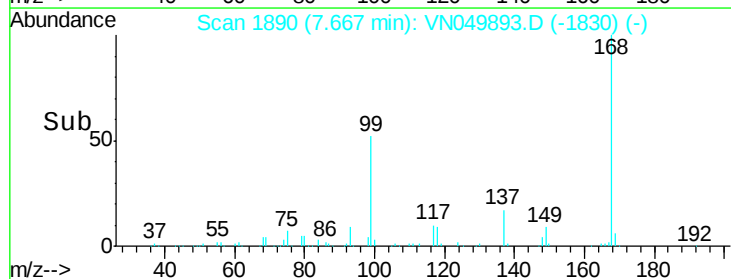
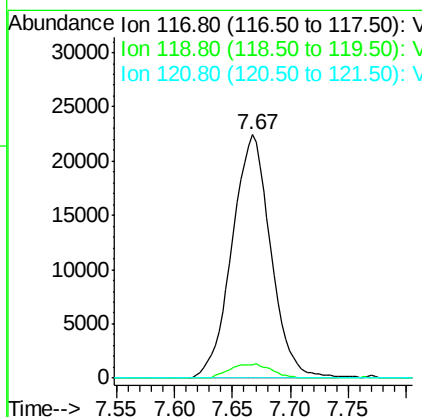
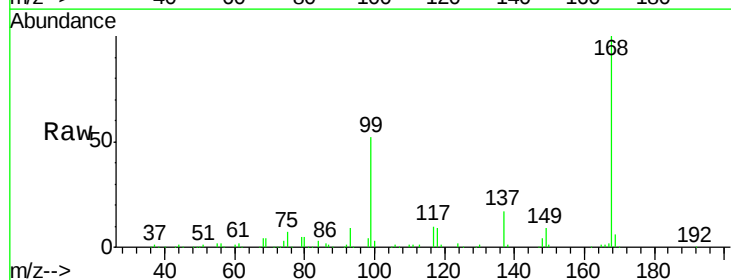
Instrument :
 MSVOA_N
 ClientSampled :

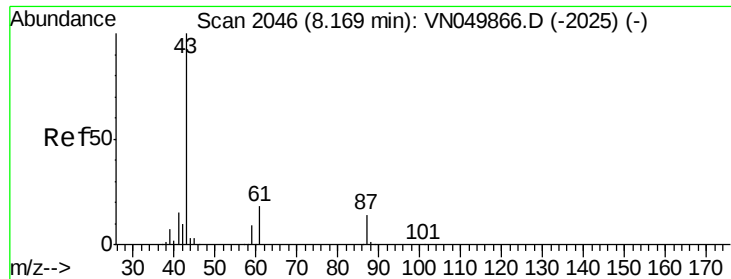
Tot Ion: 75 Resp: 40647
 Ion Ratio Lower Upper
 75 100
 110 7.4 18.1 54.4#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 4.66 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049893.D
 Acq: 19 Jul 2018 00:59

Tgt Ion: 117 Resp: 52057
 Ion Ratio Lower Upper
 117 100
 119 5.7 77.2 115.8#
 121 0.0 25.0 37.6#



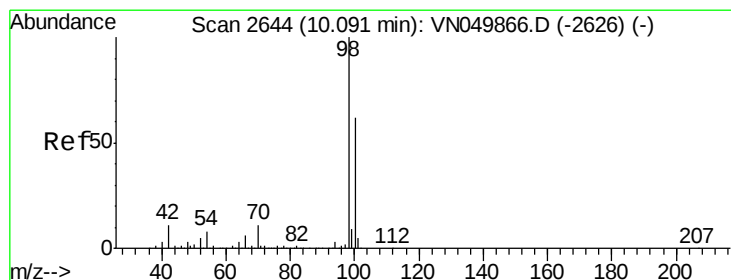
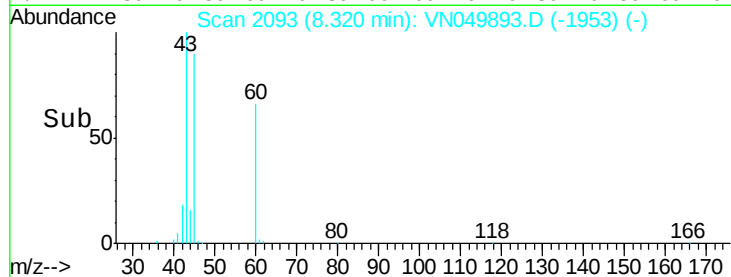
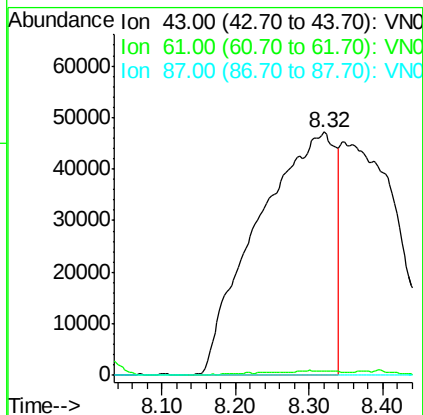
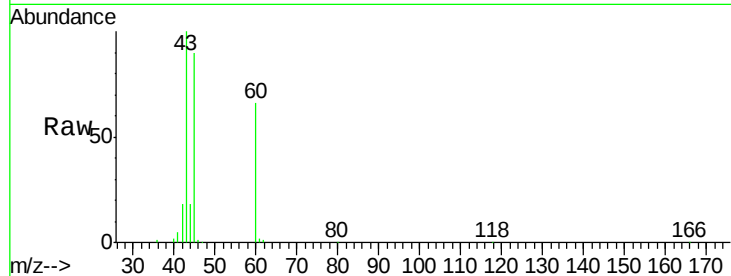


#43

Isopropyl Acetate
 Concen: 27.53 ug/l
 RT: 8.32 min Scan# 2093
 Delta R.T. 0.15 min
 Lab File: VN049893.D
 Acq: 19 Jul 2018 00:59

Instrument :
 MSVOA_N
 ClientSampleId :

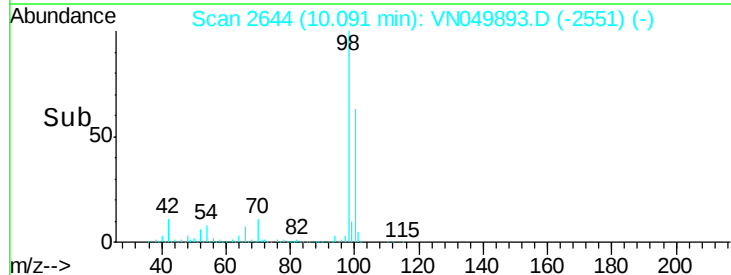
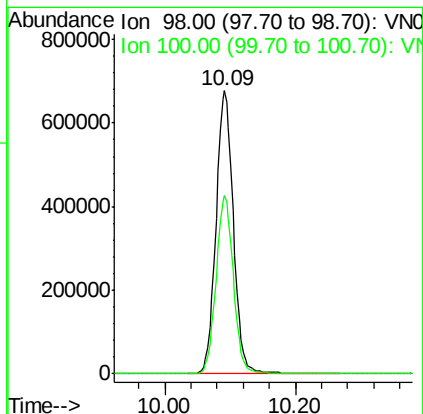
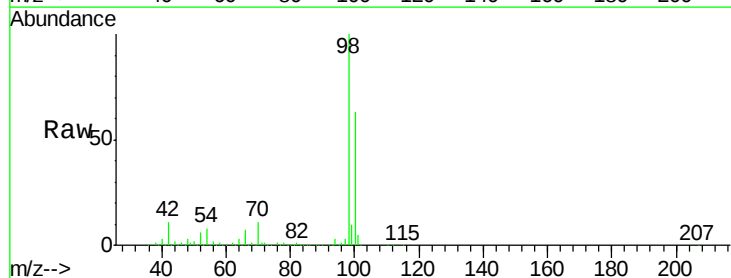
Tot Ion: 43 Resp: 344102
 Ion Ratio Lower Upper
 43 100
 61 0.1 14.9 22.3#
 87 0.0 10.0 15.0#

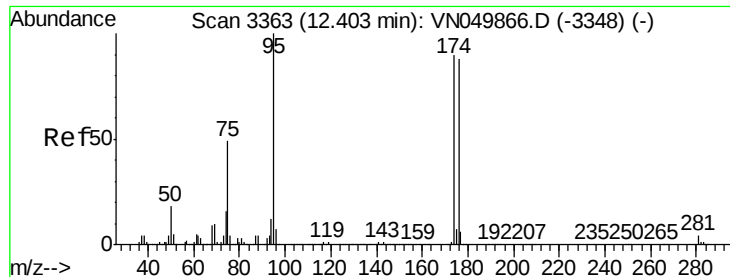


#50

Toluene-d8
 Concen: 43.78 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. -0.00 min
 Lab File: VN049893.D
 Acq: 19 Jul 2018 00:59

Tgt Ion: 98 Resp: 1255073
 Ion Ratio Lower Upper
 98 100
 100 62.7 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 33.20 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

Instrument :

MSVOA_N

ClientSampled :

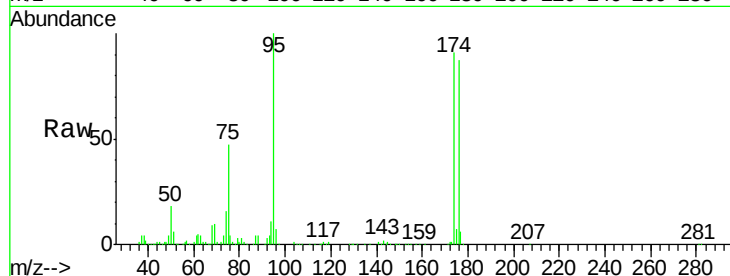
Tot Ion: 95 Resp: 327804

Ion Ratio Lower Upper

95 100

174 91.6 0.0 179.6

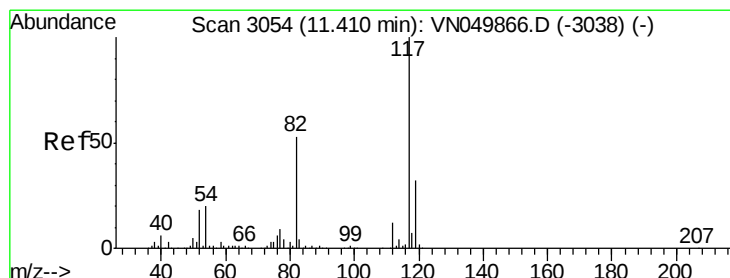
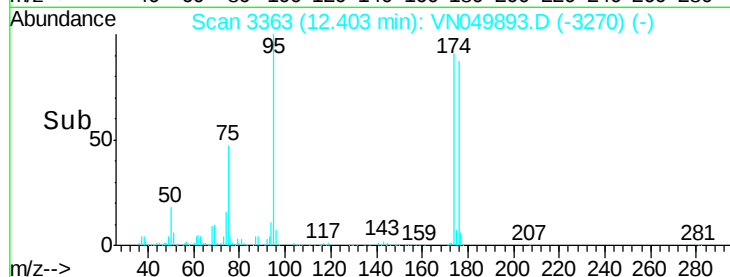
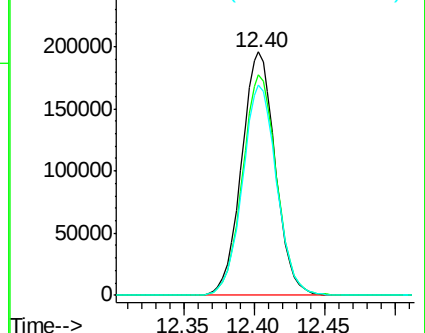
176 87.5 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): VN049866.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN049866.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN049866.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

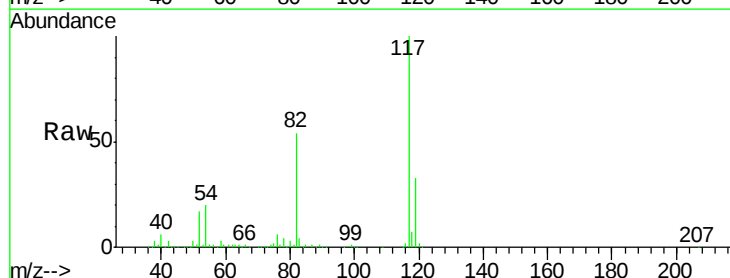
Tgt Ion: 117 Resp: 753494

Ion Ratio Lower Upper

117 100

82 54.1 41.9 62.9

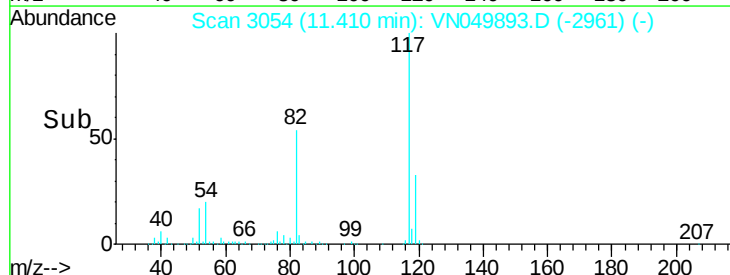
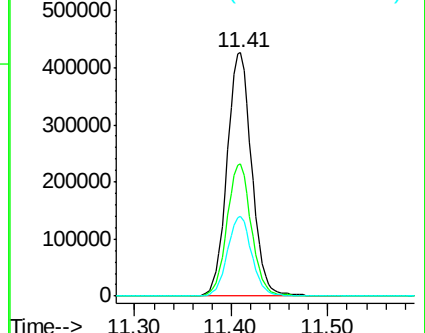
119 32.7 25.4 38.2

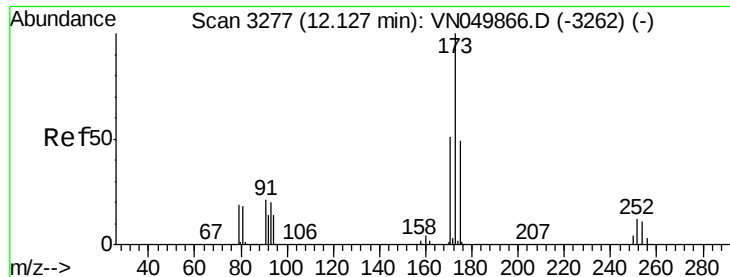


Abundance Ion 116.90 (116.60 to 117.60): VN049866.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049866.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049866.D (-3038) (-)





#71

Bromoform

Concen: 0.61 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

Instrument :

MSVOA_N

ClientSampled :

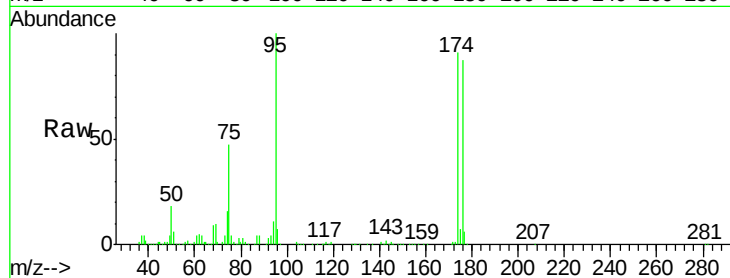
Tot Ion:173 Resp: 3223

Ion Ratio Lower Upper

173 100

175 588.9 24.6 73.8#

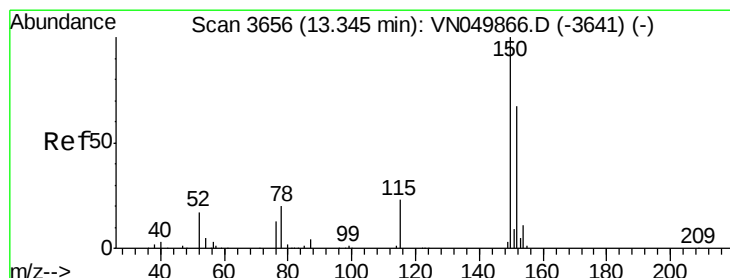
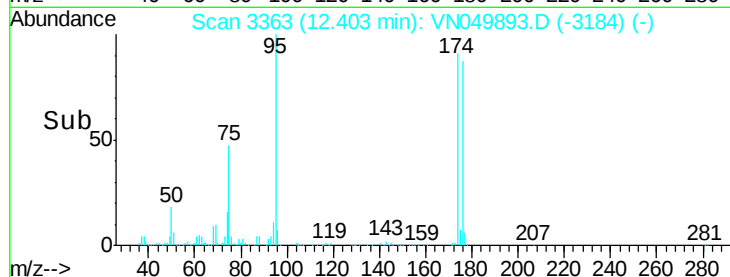
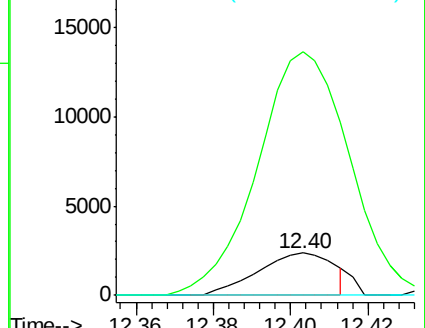
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

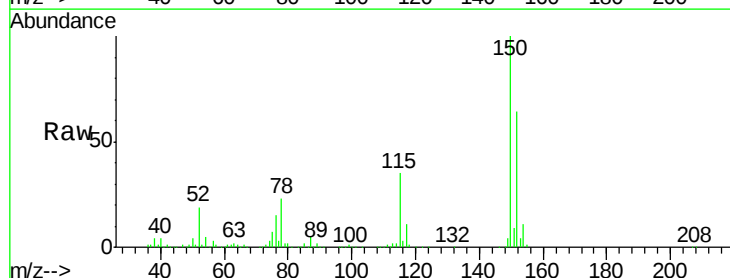
Tgt Ion:152 Resp: 268809

Ion Ratio Lower Upper

152 100

115 54.9 28.1 84.2

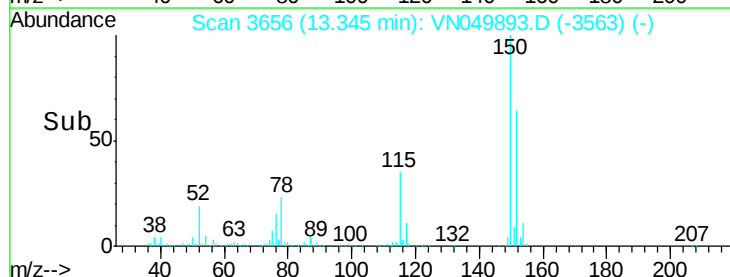
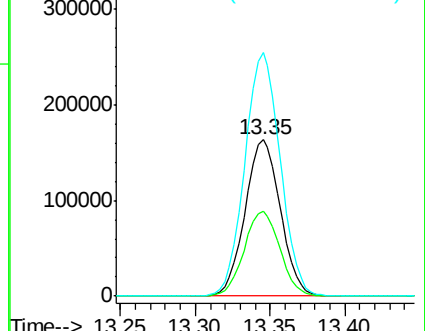
150 156.2 0.0 347.6

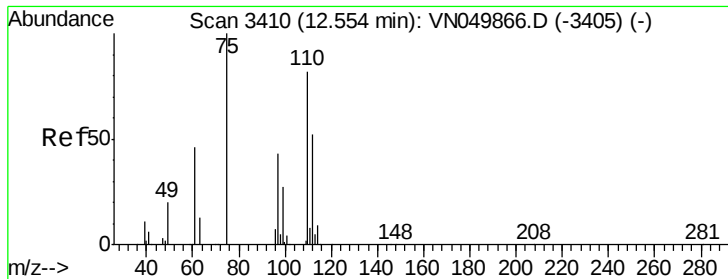


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

Instrument :

MSVOA_N

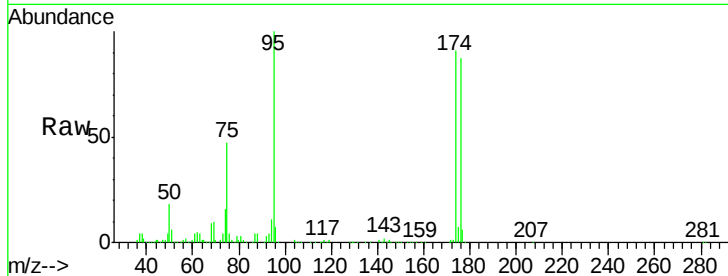
ClientSampleId :

Tot Ion: 75 Resp: 159001

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

12.40

100000

80000

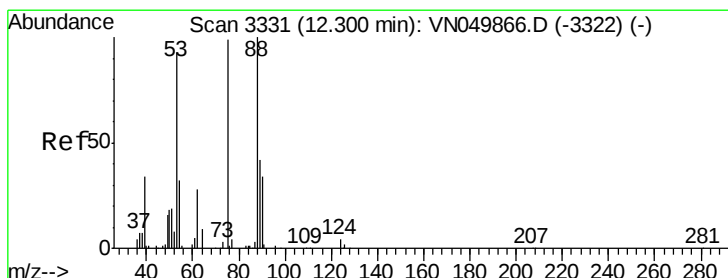
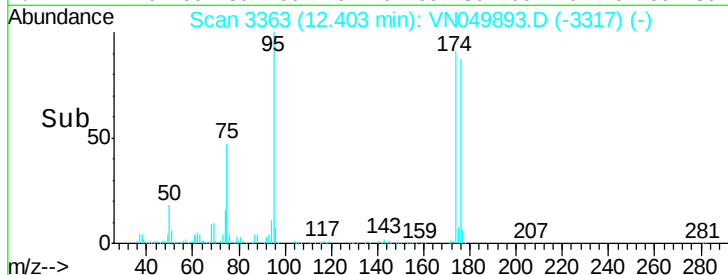
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 98.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

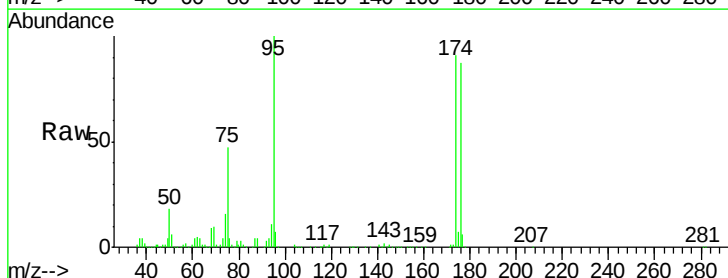
Tgt Ion: 75 Resp: 159001

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 35.9 53.9#



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

120000

100000

80000

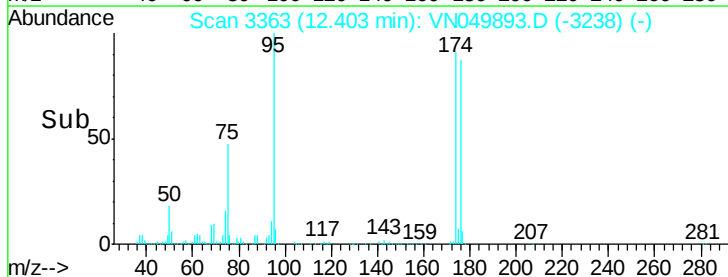
60000

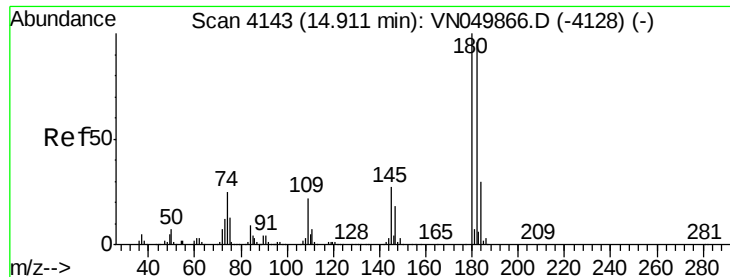
40000

20000

0

Time-->





#93

1,2,4-Trichlorobenzene

Concen: 3.53 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN049893.D

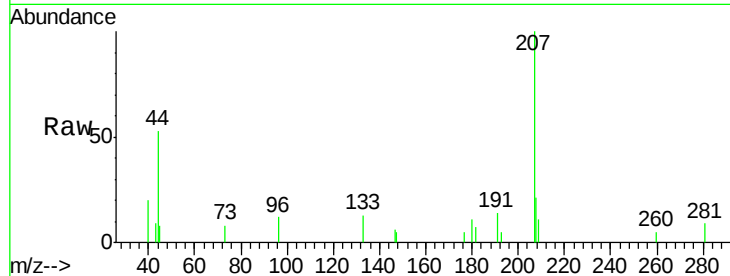
Acq: 19 Jul 2018 00:59

Instrument :

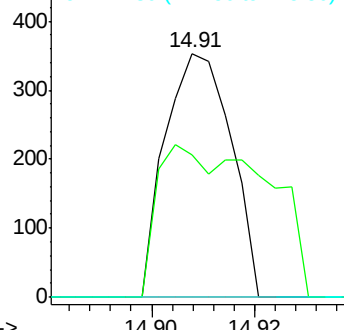
MSVOA_N

ClientSampled :

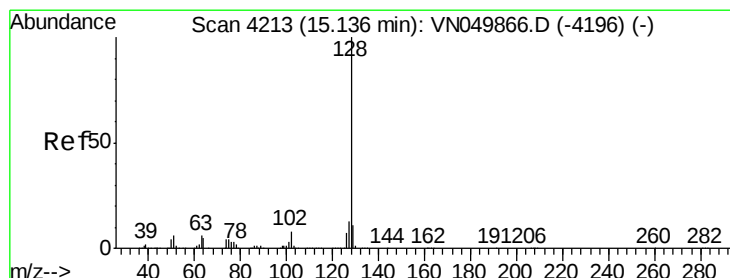
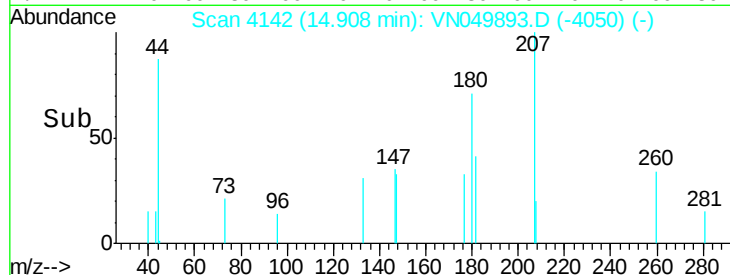
Tot Ion:	180	Resp:	311
Ion	Ratio	Lower	Upper
180	100		
182	49.2	47.3	141.9
145	0.0	14.4	43.0#



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: 4.55 ug/l

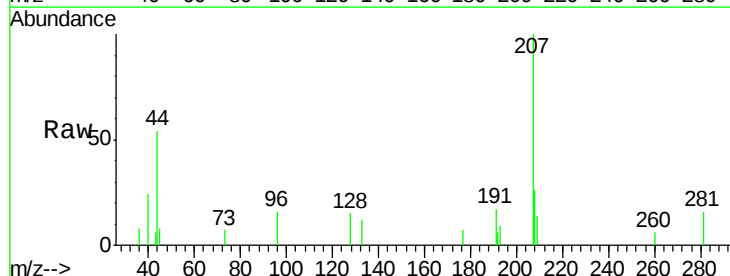
RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

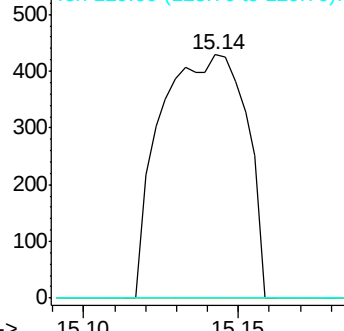
Lab File: VN049893.D

Acq: 19 Jul 2018 00:59

Tgt Ion:	128	Resp:	825
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#



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-->

