

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092418\
 Data File : VN051463.D
 Acq On : 24 Sep 2018 15:57
 Operator : MD\SY
 Sample : J4770-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

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

Quant Time: Sep 25 01:59:44 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

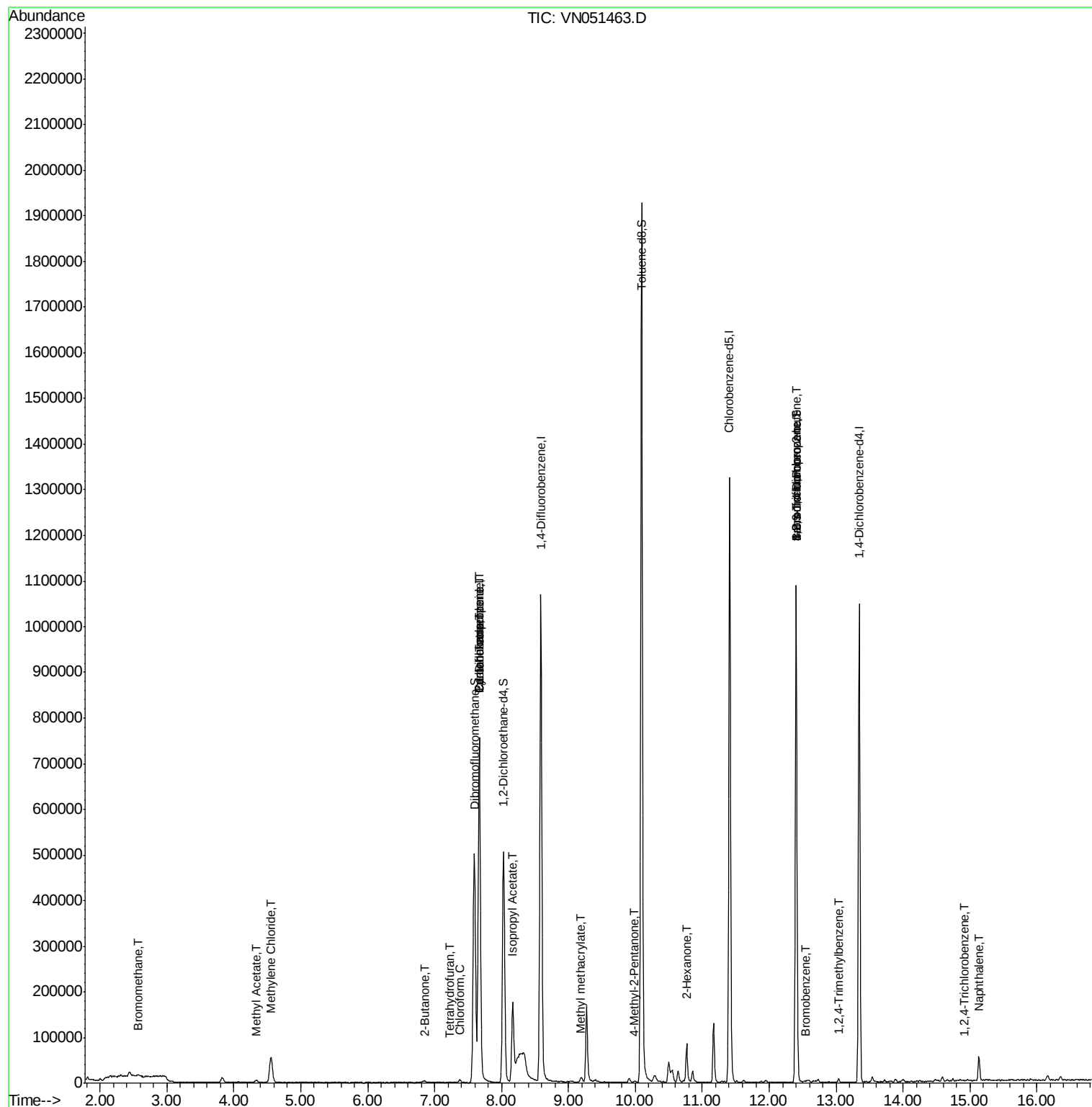
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	653955	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	991232	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	822464	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	305315	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	442112	53.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.94%	
35) Dibromofluoromethane	7.59	113	384014	48.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.90%	
50) Toluene-d8	10.09	98	1390531	46.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.18%	
62) 4-Bromofluorobenzene	12.40	95	375038	38.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.68%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	1533	0.298	ug/l	95
16) Acetone	3.82	43	18361	Below Cal		97
18) Methyl Acetate	4.33	43	9752	1.563	ug/l	98
20) Methylene Chloride	4.55	84	41285	5.093	ug/l	96
25) 2-Butanone	6.85	43	4724	1.685	ug/l #	85
29) Tetrahydrofuran	7.22	42	1273	0.716	ug/l #	36
30) Chloroform	7.38	83	6737	0.483	ug/l #	75
31) Cyclohexane	7.67	56	11510	0.892	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46295	4.033	ug/l #	49
38) Carbon Tetrachloride	7.67	117	58923	4.908	ug/l #	16
43) Isopropyl Acetate	8.17	43	218412	18.301	ug/l	96
48) Methyl methacrylate	9.18	41	5954	1.001	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	1701	0.259	ug/l	90
59) 2-Hexanone	10.77	43	12351	2.903	ug/l #	60
71) Bromoform	12.39	173	1143	0.210	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	184084	36.320	ug/l #	100
77) Bromobenzene	12.54	156	2516	0.386	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	184084	111.681	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	4795	0.227	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	30	5.986	ug/l #	1
95) Naphthalene	15.13	128	46121	11.454	ug/l	99

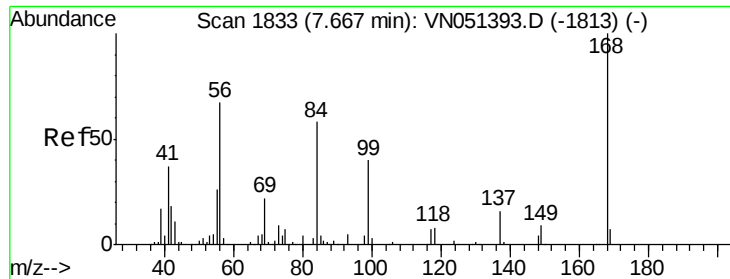
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051463.D

Acq: 24 Sep 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

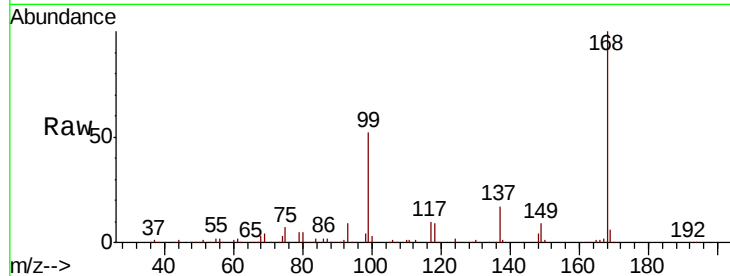
JC-02-092118-J

Tot Ion:168 Resp: 653955

Ion Ratio Lower Upper

168 100

99 52.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051463.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051463.D (-1740) (-)

7.67

250000

200000

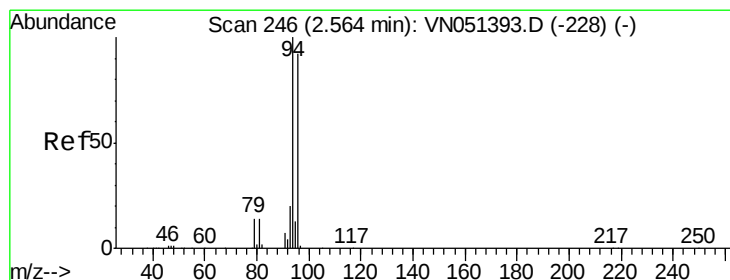
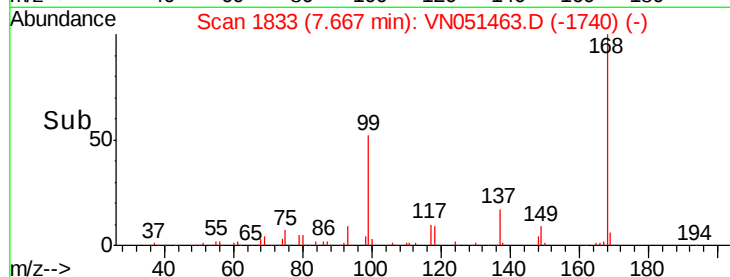
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.298 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051463.D

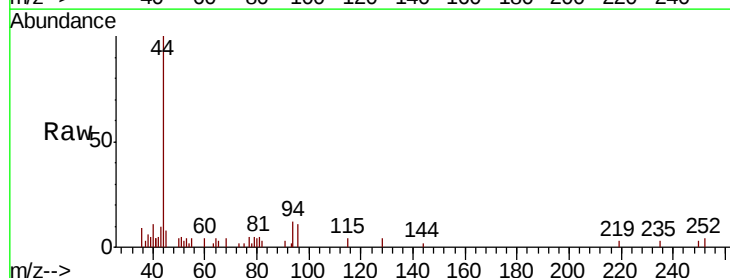
Acq: 24 Sep 2018 15:57

Tgt Ion: 94 Resp: 1533

Ion Ratio Lower Upper

94 100

96 87.6 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051463.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051463.D (-153) (-)

2.57

800

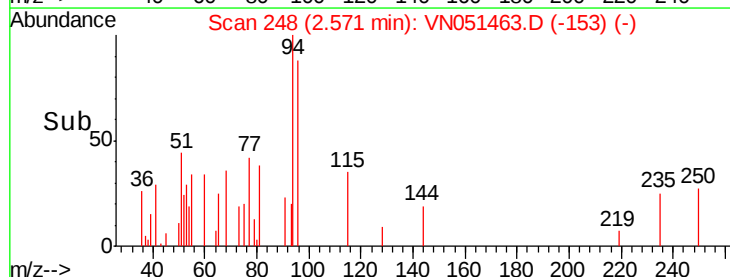
600

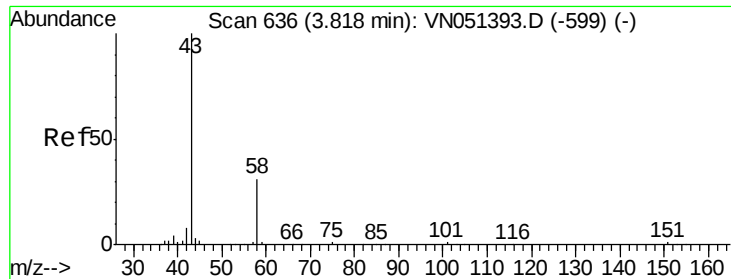
400

200

0

Time--> 2.55 2.60





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

Instrument :

MSVOA_N

ClientSampled :

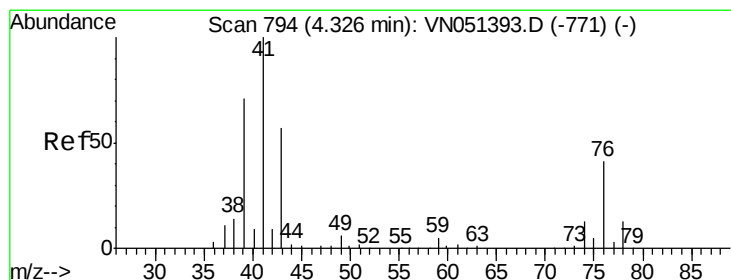
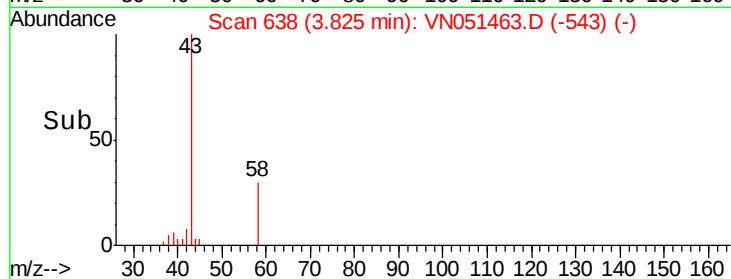
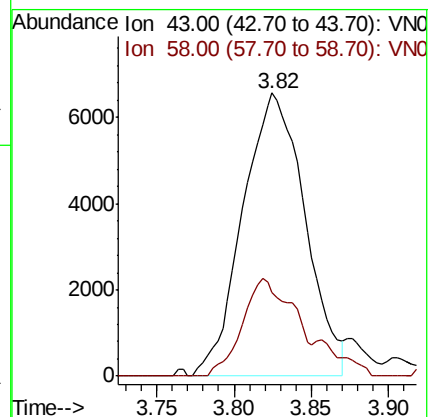
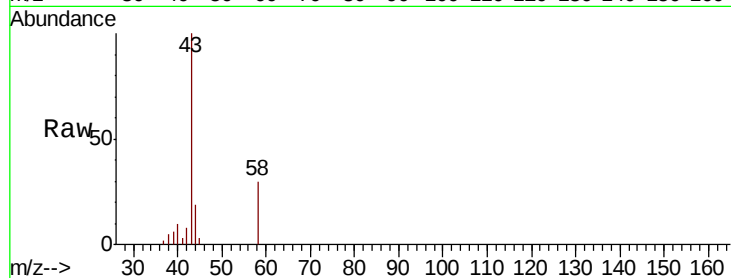
JC-02-092118-J

Tot Ion: 43 Resp: 18361

Ion Ratio Lower Upper

43 100

58 29.7 25.0 37.4



#18

Methyl Acetate

Concen: 1.563 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051463.D

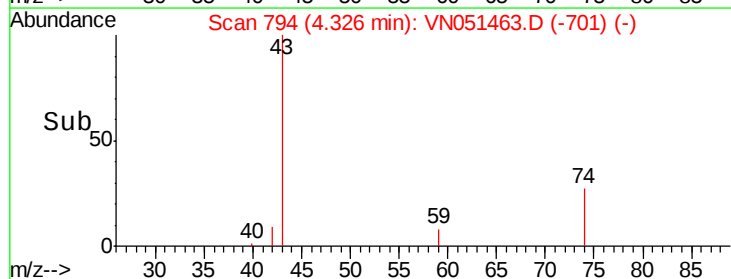
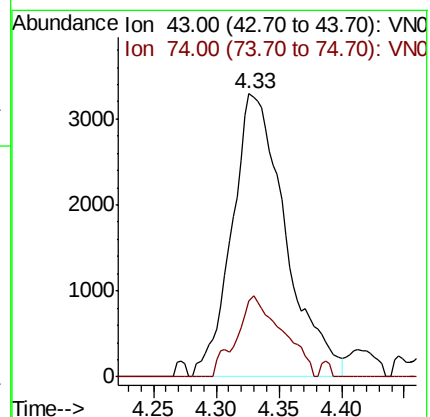
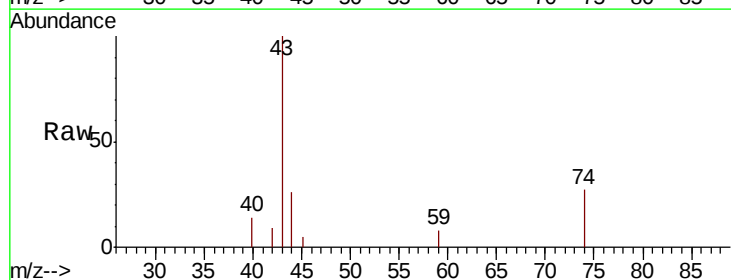
Acq: 24 Sep 2018 15:57

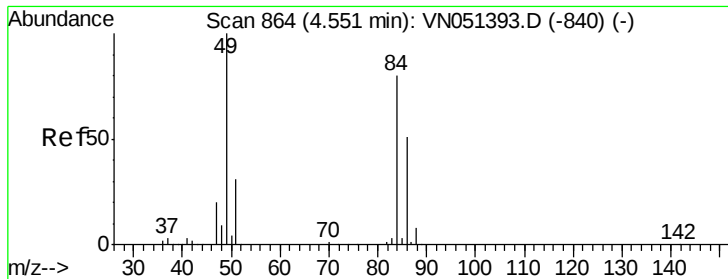
Tgt Ion: 43 Resp: 9752

Ion Ratio Lower Upper

43 100

74 24.4 18.8 28.2

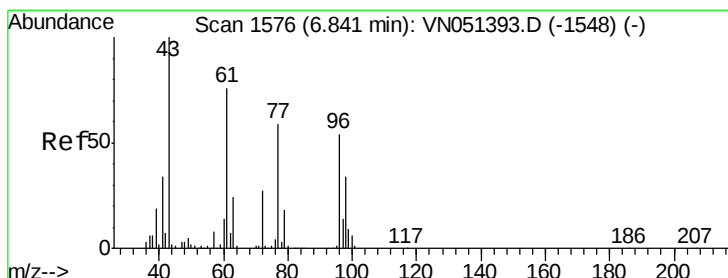
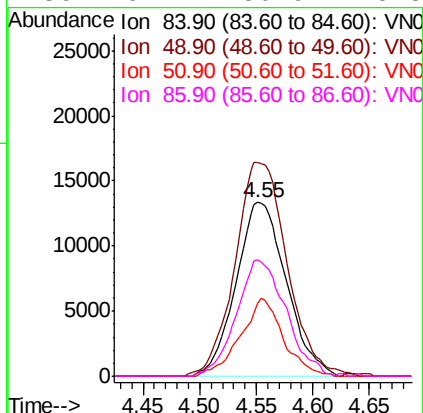
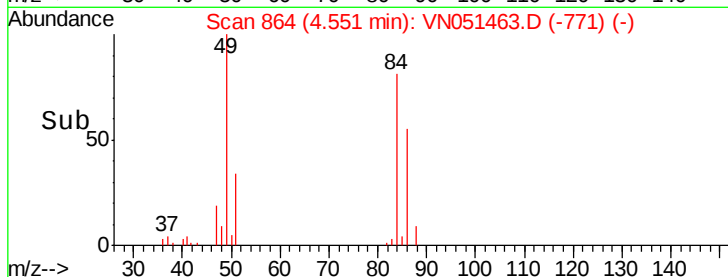
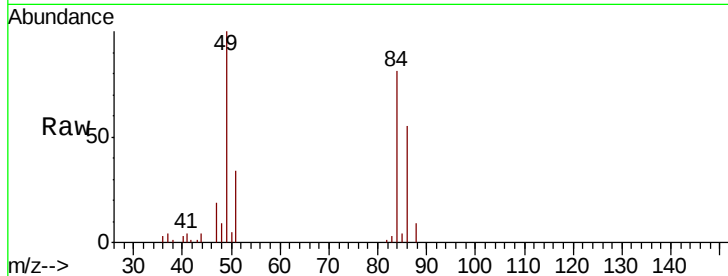




#20
Methvlene Chloride
Concen: 5.093 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

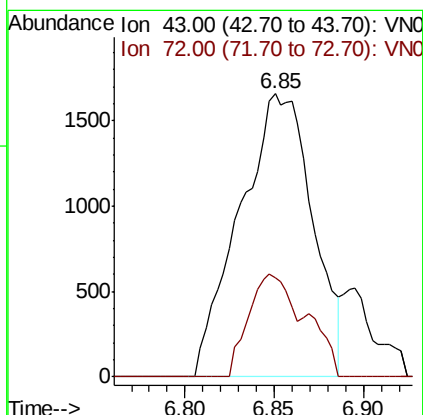
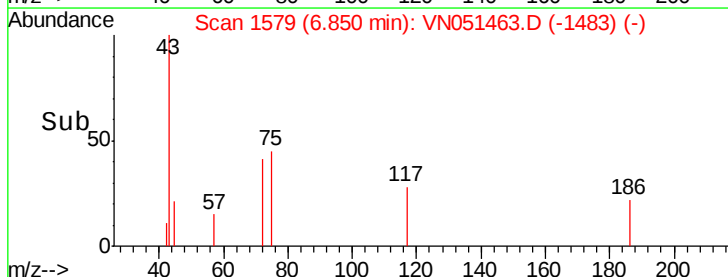
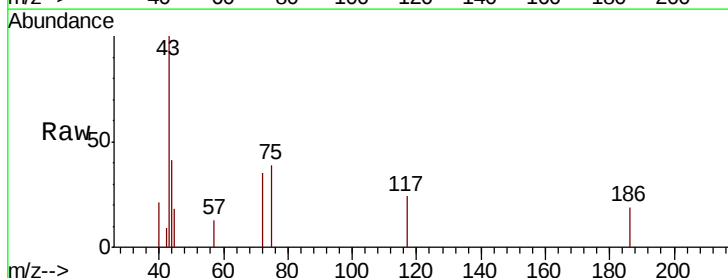
Instrument :
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ClientSampleId :
JC-02-092118-J

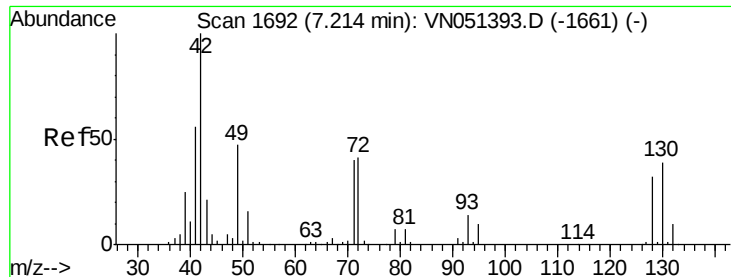
Tot Ion:	84	Resp:	41285
Ion	Ratio	Lower	Upper
84	100		
49	121.8	99.9	149.9
51	41.8	31.4	47.2
86	67.4	50.9	76.3



#25
2-Butanone
Concen: 1.685 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

Tgt Ion:	43	Resp:	4724
Ion	Ratio	Lower	Upper
43	100		
72	35.2	21.8	32.6#





#29

Tetrahydrofuran

Concen: 0.716 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-J

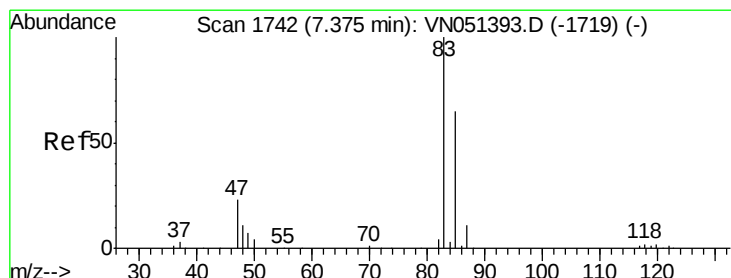
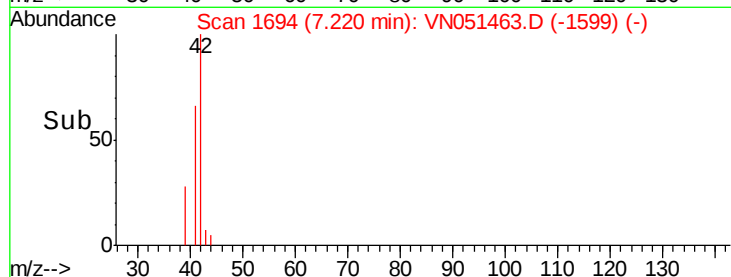
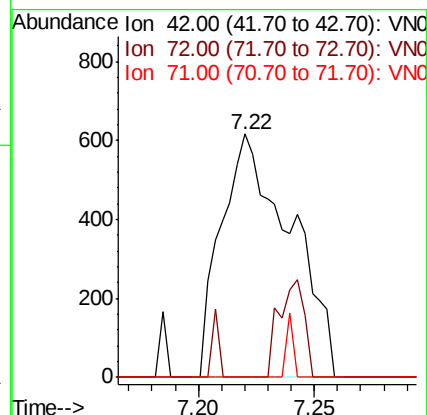
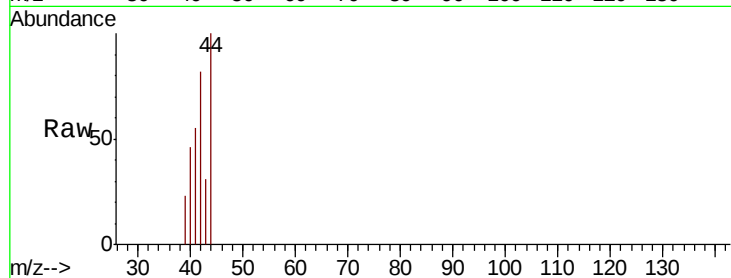
Tot Ion: 42 Resp: 1273

Ion Ratio Lower Upper

42 100

72 2.6 34.3 51.5#

71 0.0 32.2 48.4#



#30

Chloroform

Concen: 0.483 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VN051463.D

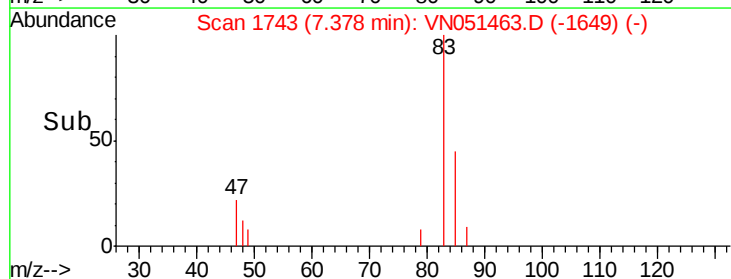
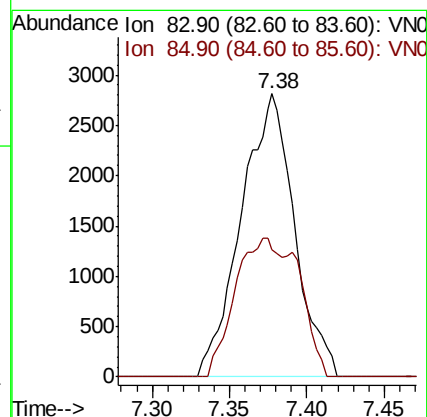
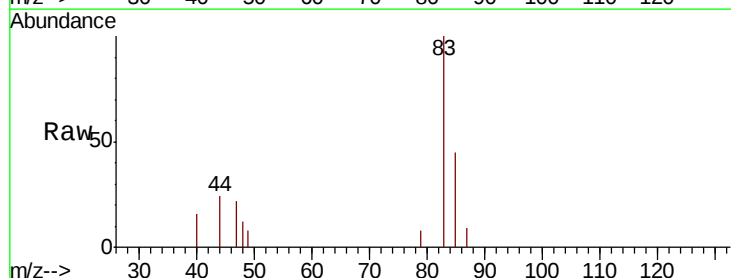
Acq: 24 Sep 2018 15:57

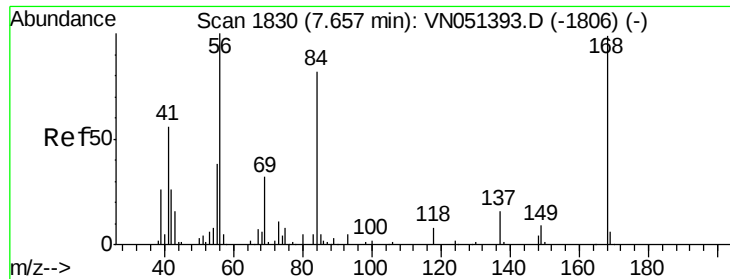
Tgt Ion: 83 Resp: 6737

Ion Ratio Lower Upper

83 100

85 45.1 51.8 77.6#

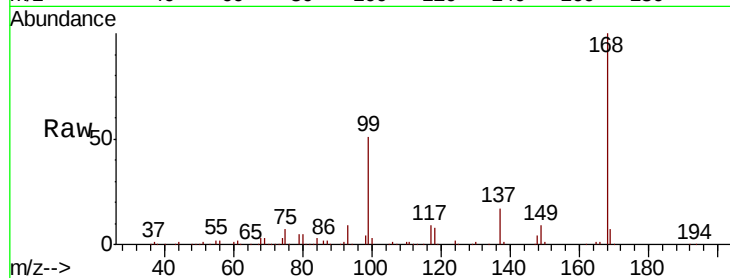




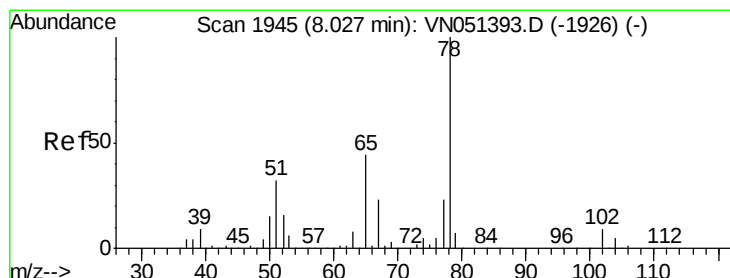
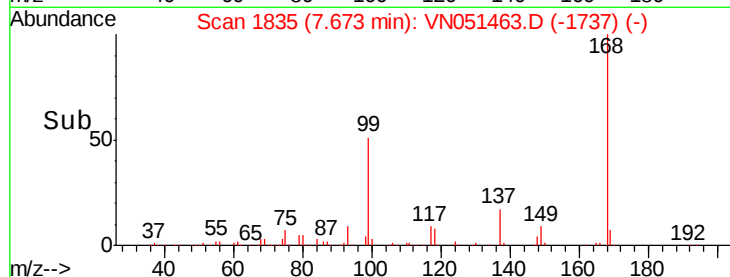
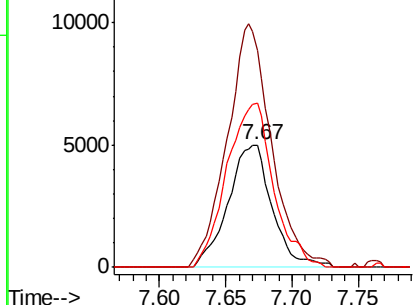
#31
Cyclohexane
Concen: 0.892 ug/l
RT: 7.67 min Scan# 1835
Delta R.T. 0.02 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

Instrument :
MSVOA_N
ClientSampled :
JC-02-092118-J

Tot Ion: 56 Resp: 11510
Ion Ratio Lower Upper
56 100
69 177.4 25.8 38.6#
84 133.8 66.0 99.0#

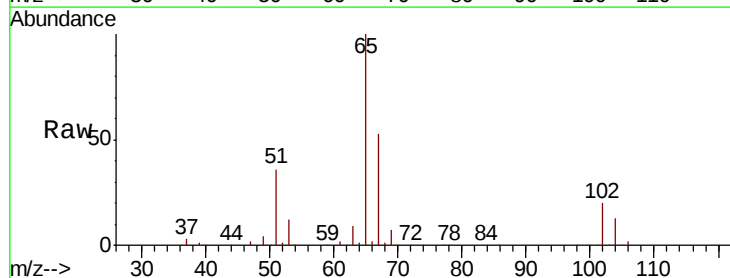


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

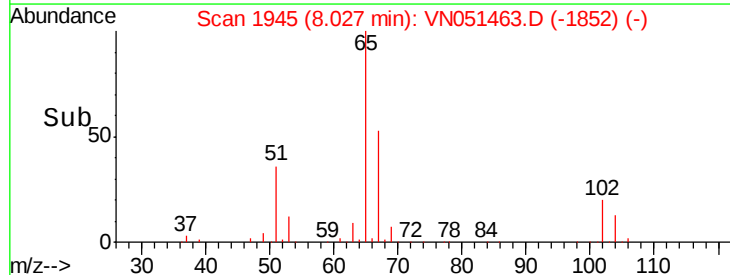
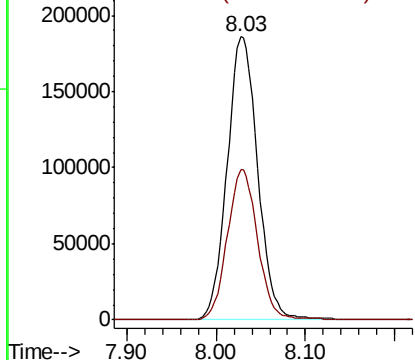


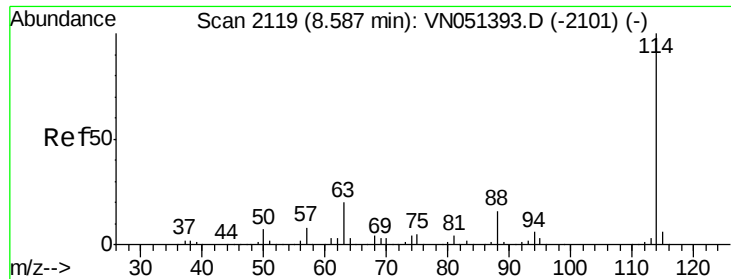
#33
1,2-Dichloroethane-d4
Concen: 53.969 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

Tgt Ion: 65 Resp: 442112
Ion Ratio Lower Upper
65 100
67 52.0 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

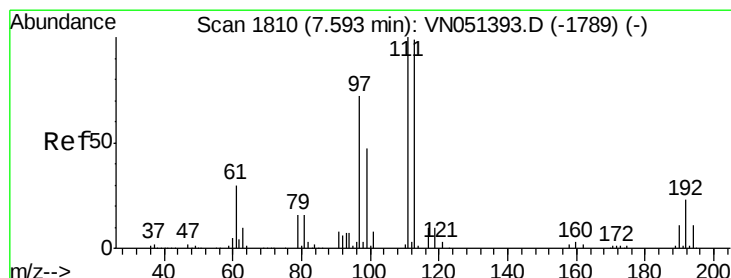
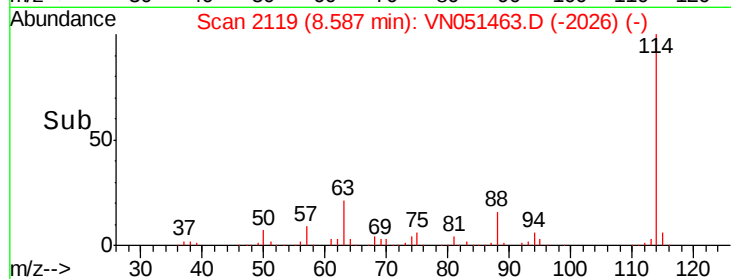
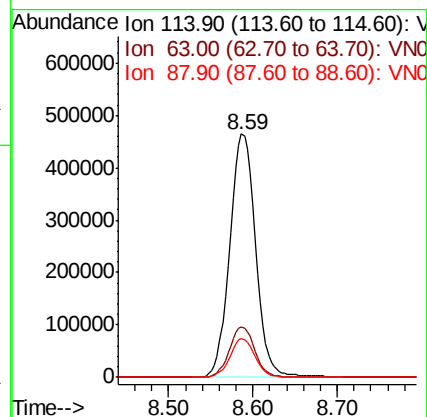
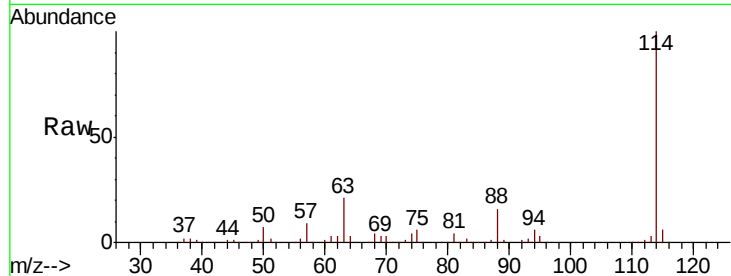




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051463.D
 Acq: 24 Sep 2018 15:57

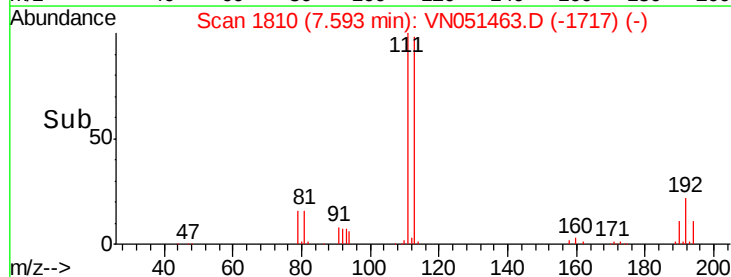
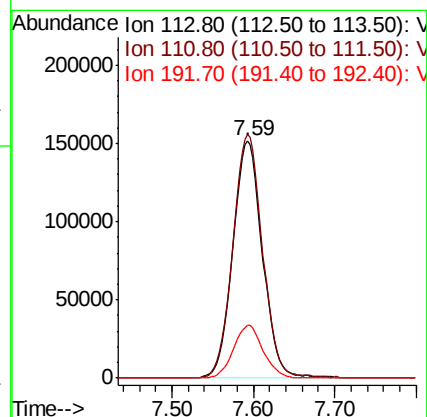
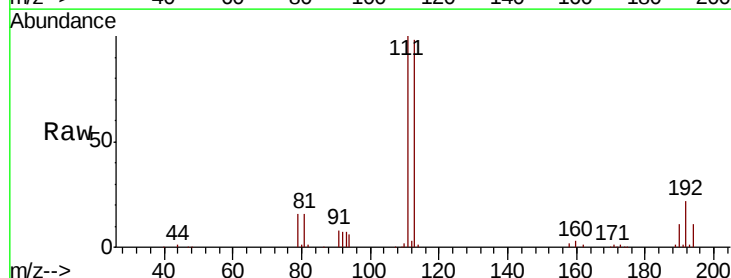
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-J

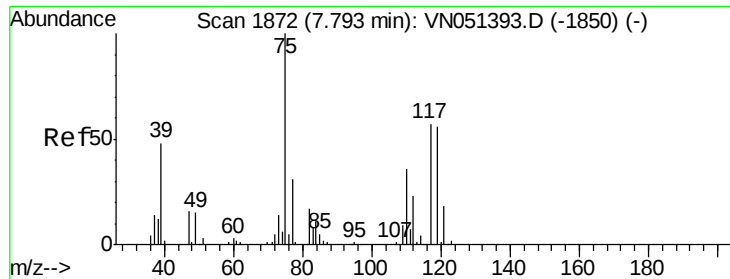
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.2
88	15.8	0.0	31.4



#35
 Dibromofluoromethane
 Concen: 48.447 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051463.D
 Acq: 24 Sep 2018 15:57

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.6	123.8
192	22.5	18.0	27.0





#36

1,1-Dichloropropene

Concen: 4.033 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-J

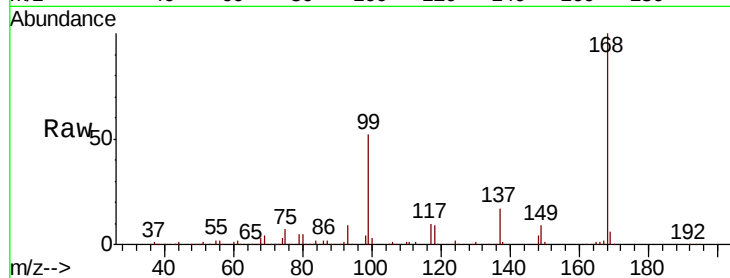
Tot Ion: 75 Resp: 46295

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.3#

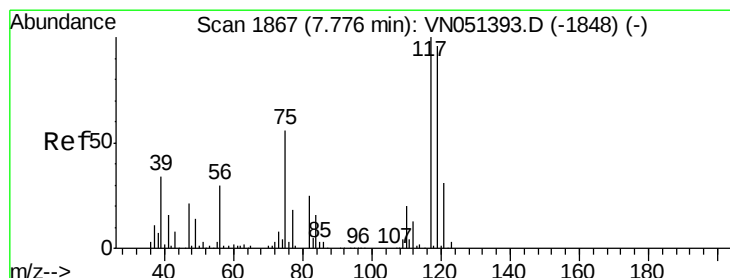
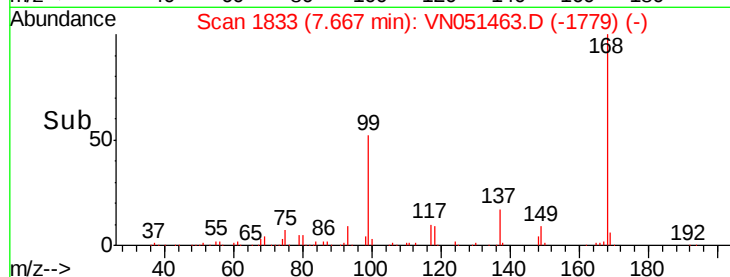
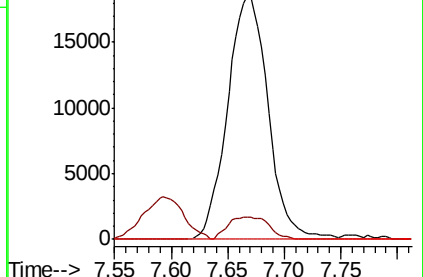
77 0.0 25.6 38.4#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-1850) (-)

Ion 109.90 (109.60 to 110.60): VN051393.D (-1850) (-)

Ion 76.90 (76.60 to 77.60): VN051393.D (-1850) (-)



#38

Carbon Tetrachloride

Concen: 4.908 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

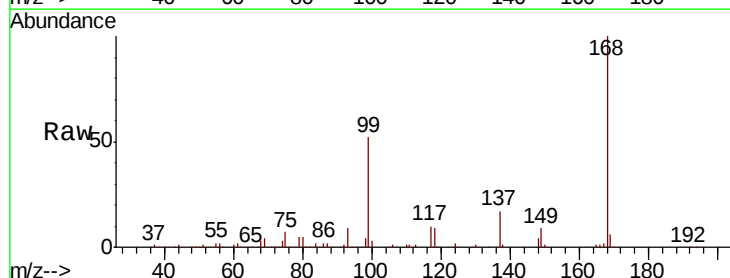
Tgt Ion: 117 Resp: 58923

Ion Ratio Lower Upper

117 100

119 4.7 76.9 115.3#

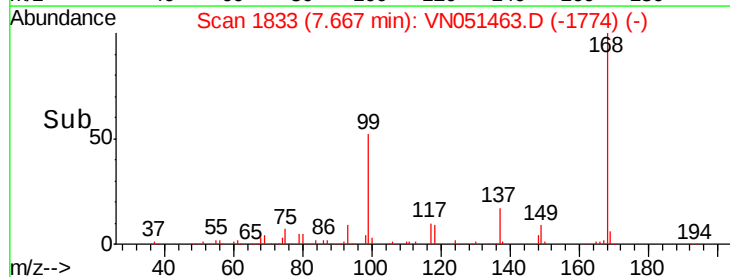
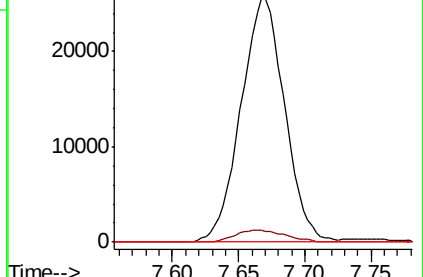
121 0.0 24.6 37.0#

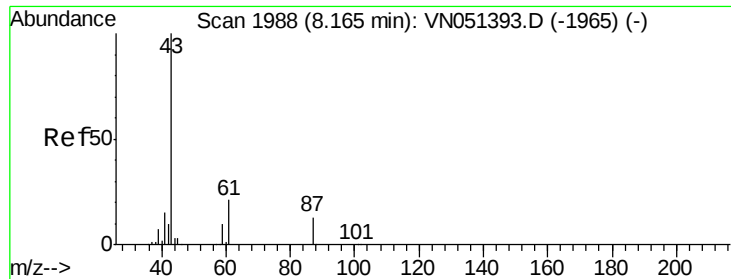


Abundance Ion 116.80 (116.50 to 117.50): VN051393.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN051393.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN051393.D (-1848) (-)





#43

Isopropyl Acetate

Concen: 18.301 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-J

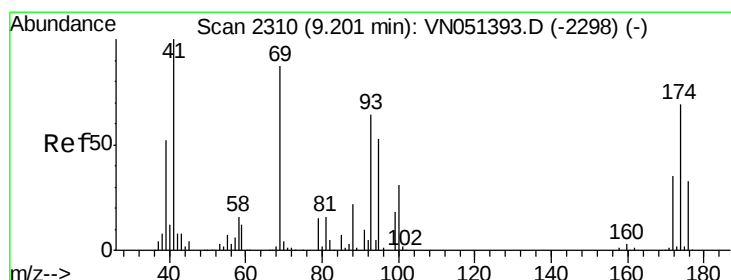
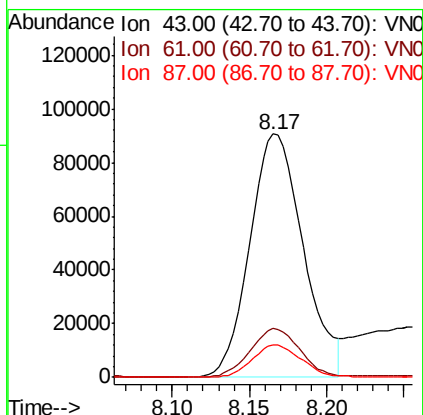
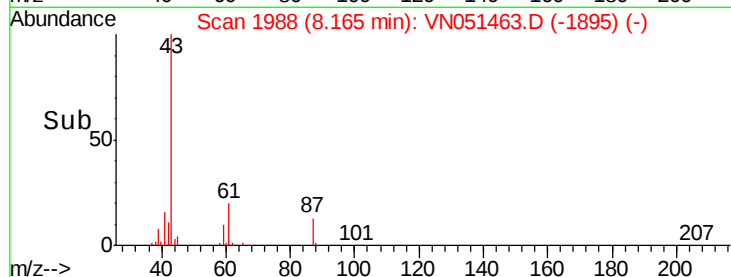
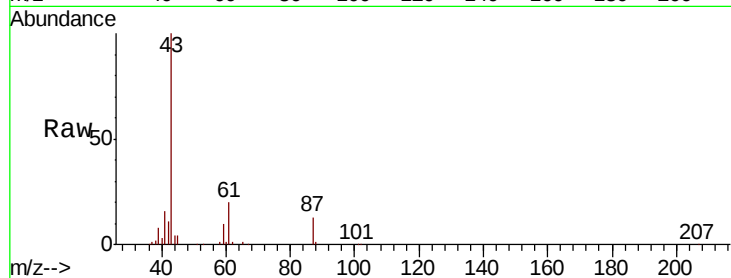
Tot Ion: 43 Resp: 218412

Ion Ratio Lower Upper

43 100

61 18.9 16.8 25.2

87 12.3 10.7 16.1



#48

Methyl methacrylate

Concen: 1.001 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

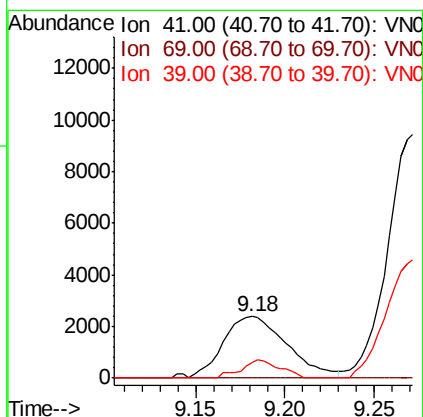
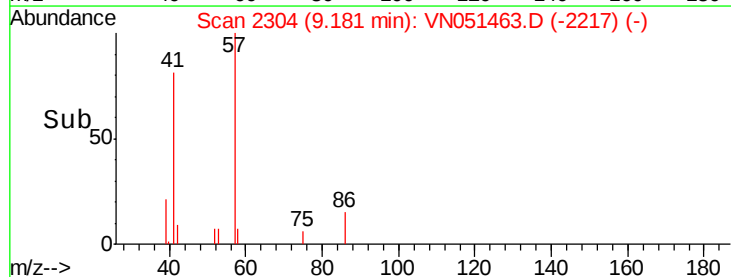
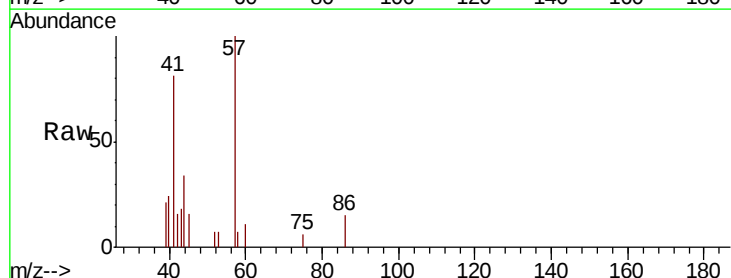
Tgt Ion: 41 Resp: 5954

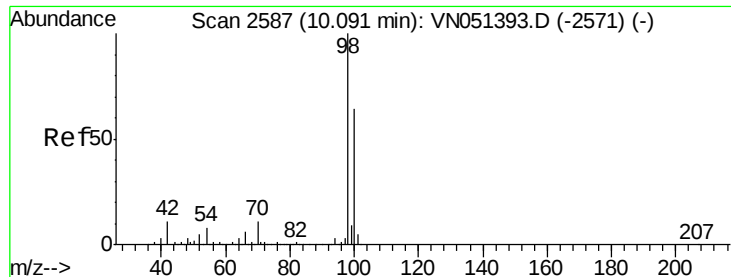
Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

39 17.7 43.8 65.8#

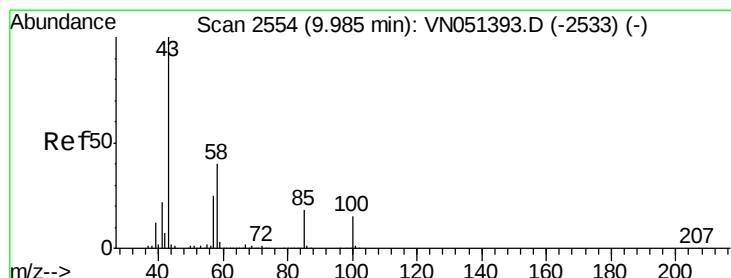
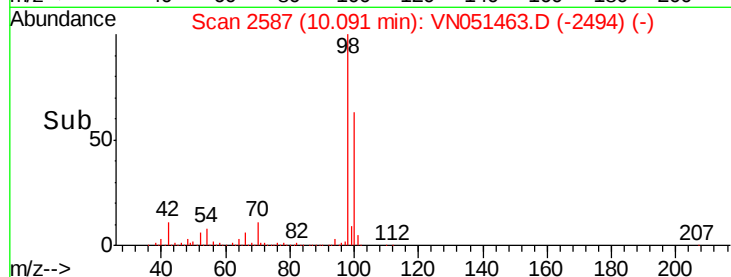
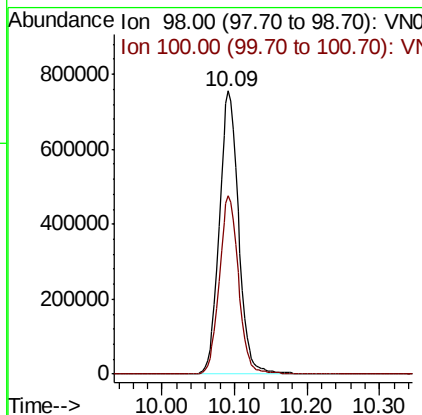
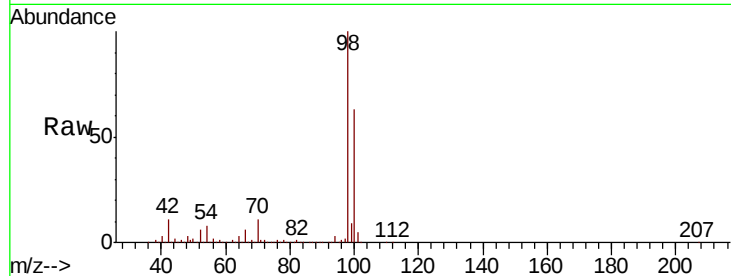




#50
Toluene-d8
Concen: 46.587 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

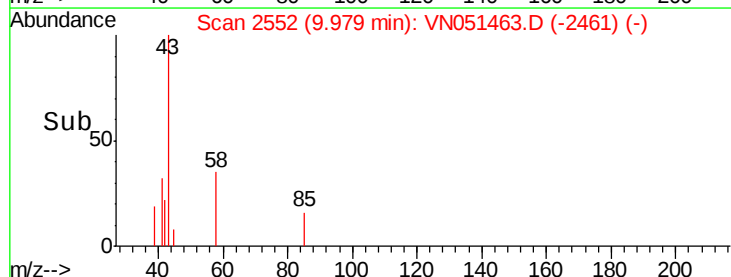
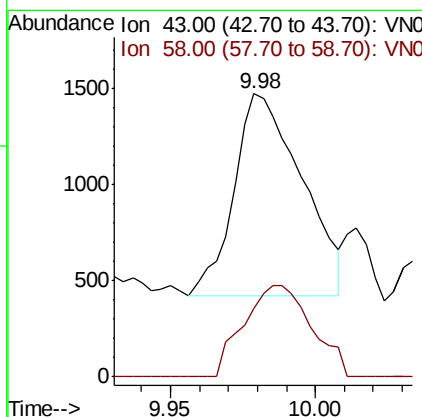
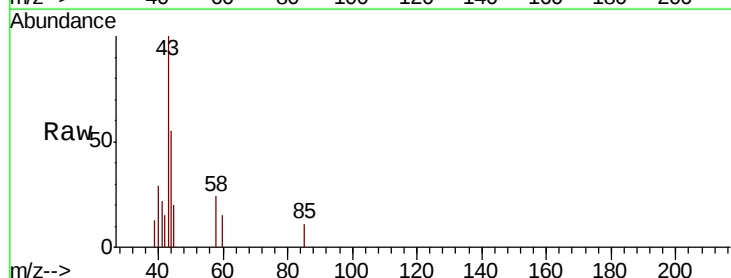
Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-J

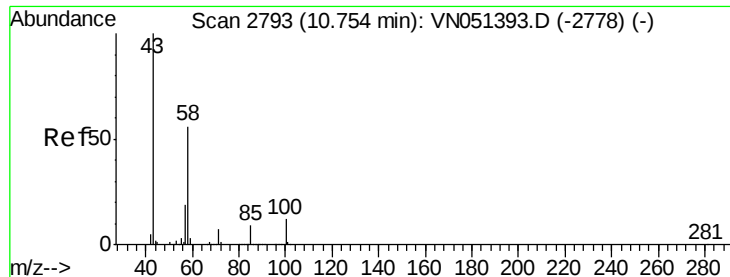
Tot Ion: 98 Resp: 1390531
Ion Ratio Lower Upper
98 100
100 62.9 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 0.259 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.01 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

Tgt Ion: 43 Resp: 1701
Ion Ratio Lower Upper
43 100
58 45.3 31.5 47.3

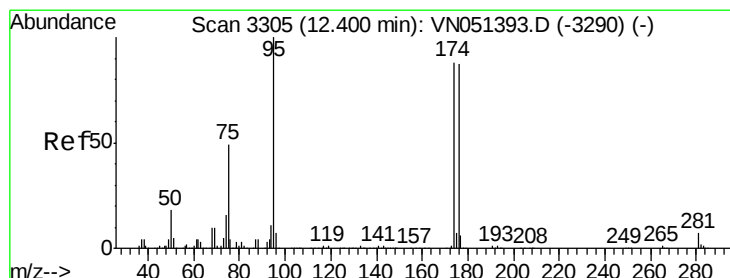
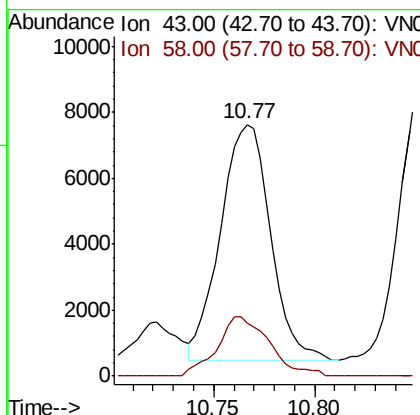
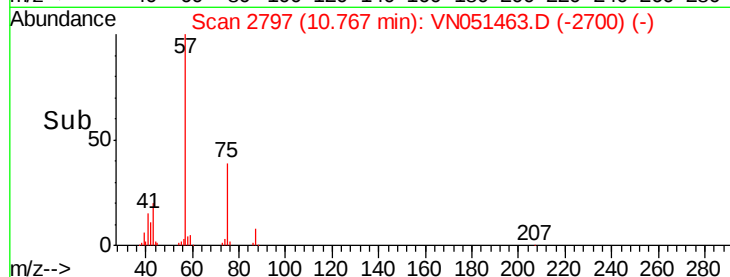
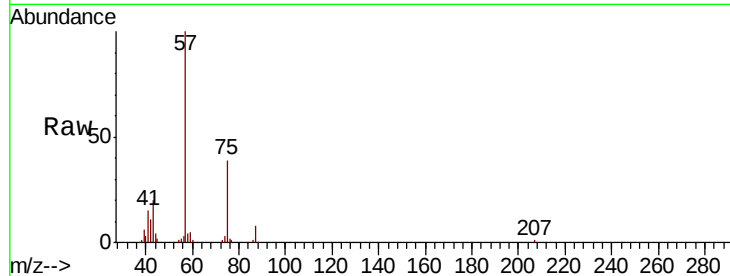




#59
2-Hexanone
Concen: 2.903 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

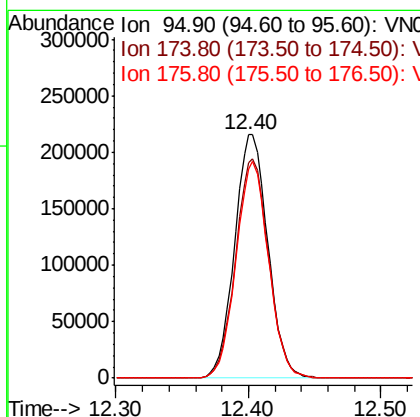
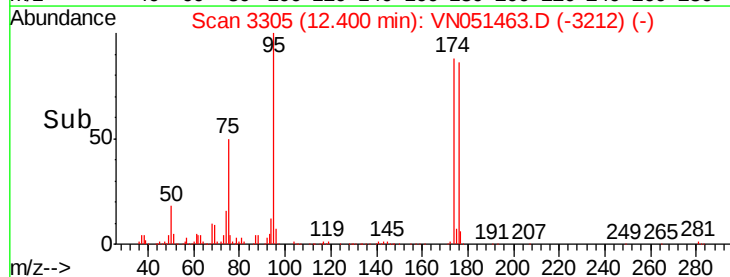
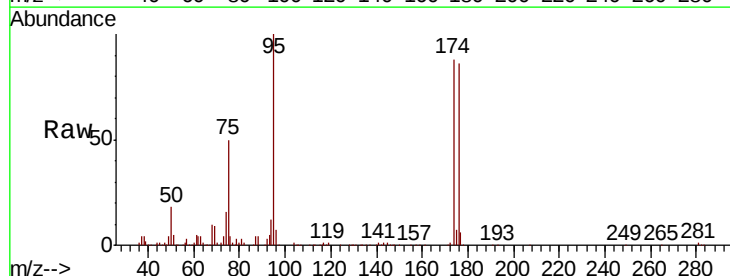
Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-J

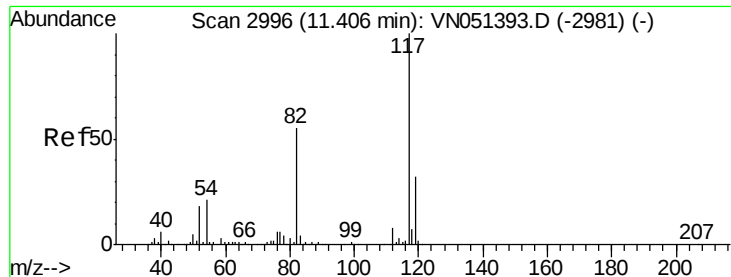
Tot Ion: 43 Resp: 12351
Ion Ratio Lower Upper
43 100
58 26.4 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.841 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

Tgt Ion: 95 Resp: 375038
Ion Ratio Lower Upper
95 100
174 89.7 0.0 181.6
176 86.9 0.0 176.4

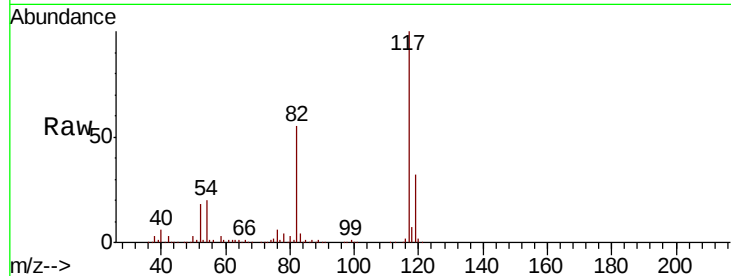




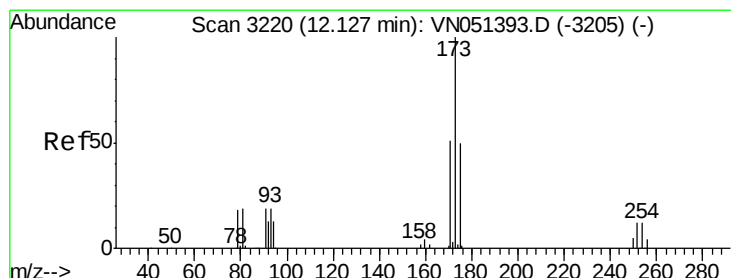
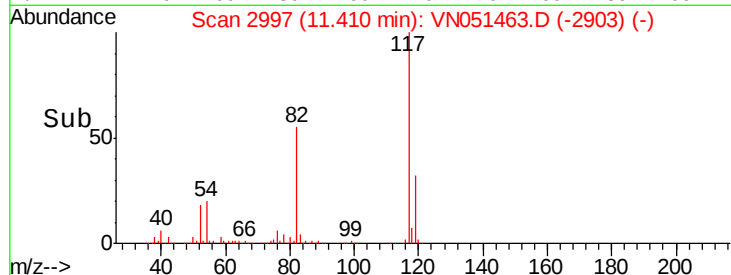
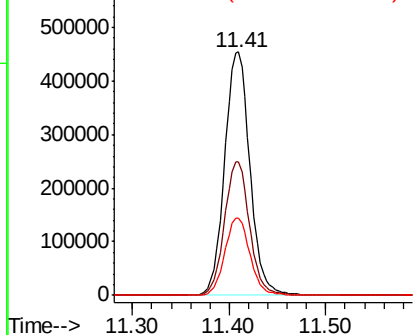
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

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

Tot Ion:117 Resp: 822464
Ion Ratio Lower Upper
117 100
82 54.9 44.2 66.2
119 31.6 25.9 38.9

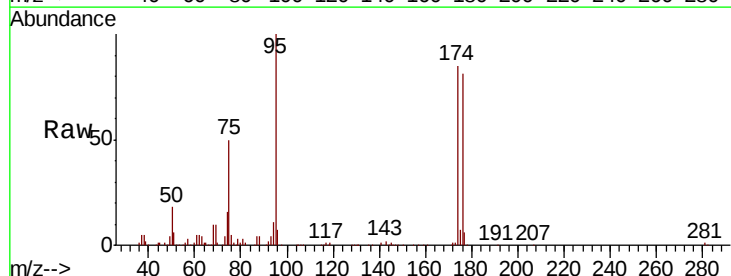


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

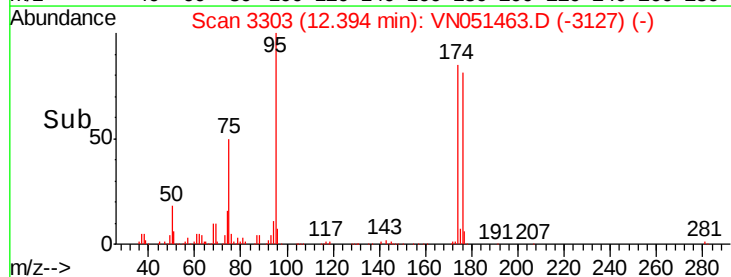
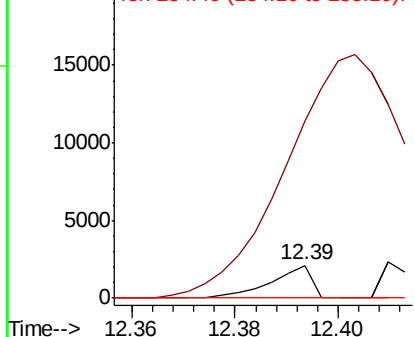


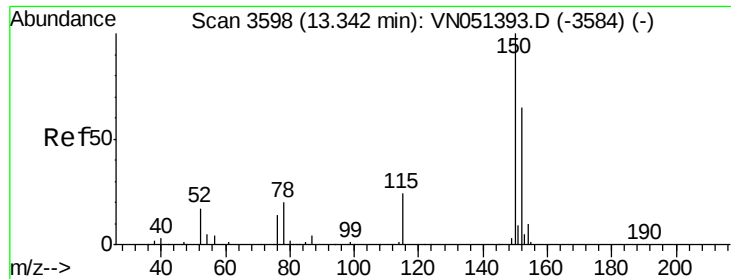
#71
Bromoform
Concen: 0.210 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

Tgt Ion:173 Resp: 1143
Ion Ratio Lower Upper
173 100
175 0.0 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



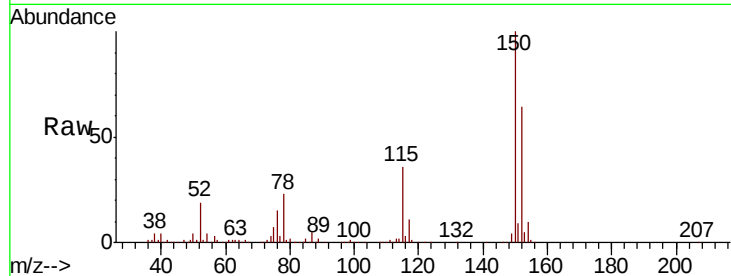


#72

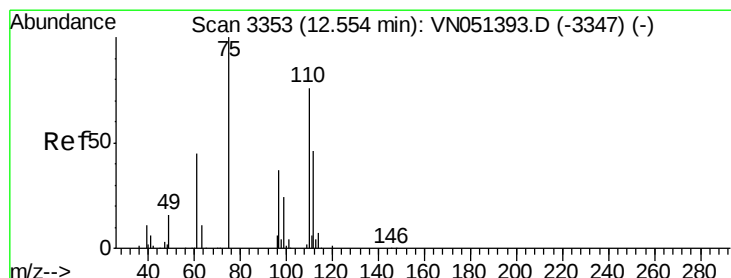
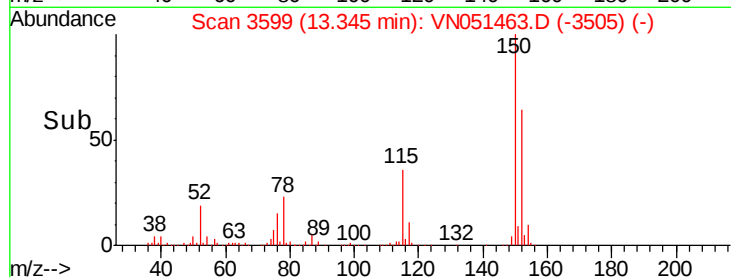
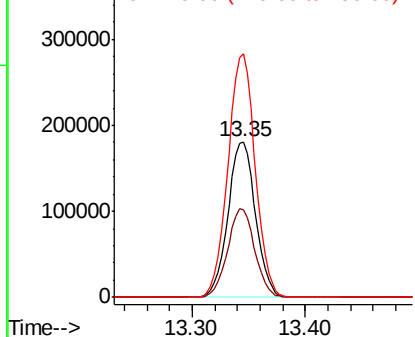
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

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

Tot Ion:152 Resp: 305315
Ion Ratio Lower Upper
152 100
115 56.4 28.3 84.9
150 155.2 0.0 353.6



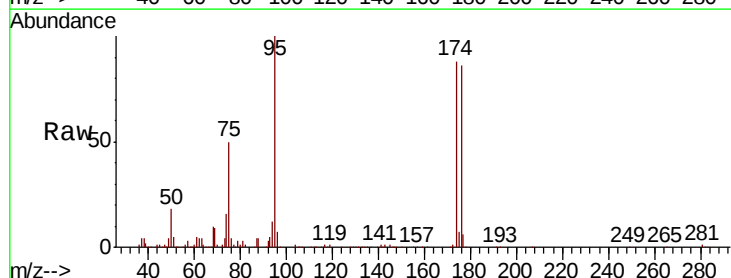
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



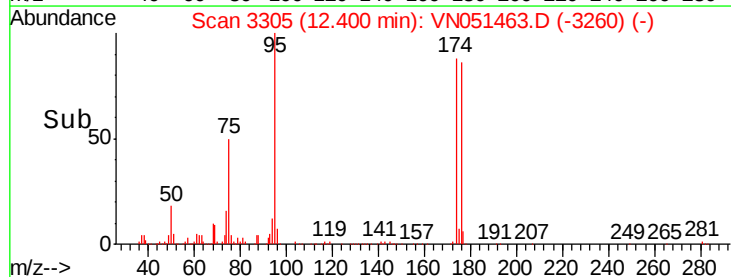
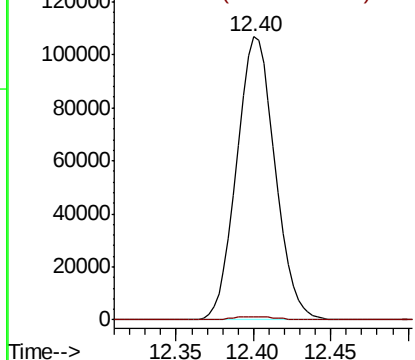
#76

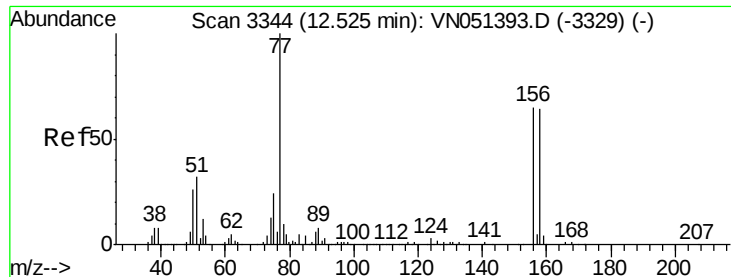
1,2,3-Trichloropropane
Concen: 36.320 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN051463.D
Acq: 24 Sep 2018 15:57

Tgt Ion: 75 Resp: 184084
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





#77

Bromobenzene

Concen: 0.386 ug/l

RT: 12.54 min Scan# 3348

Delta R.T. 0.01 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-J

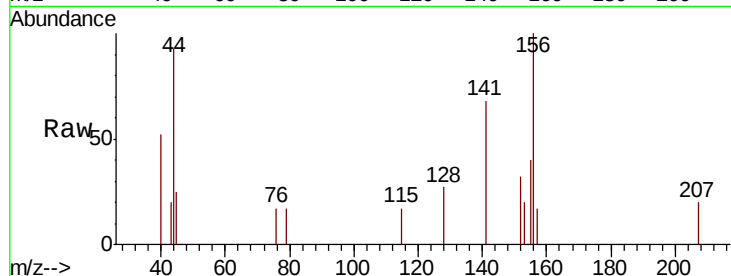
Tot Ion:156 Resp: 2516

Ion Ratio Lower Upper

156 100

77 0.0 89.5 268.4#

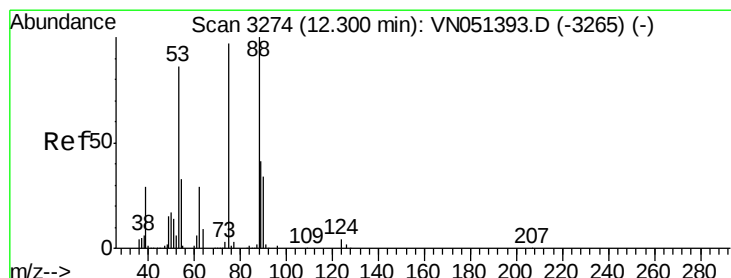
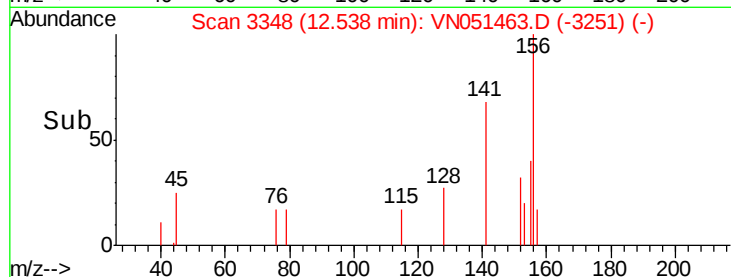
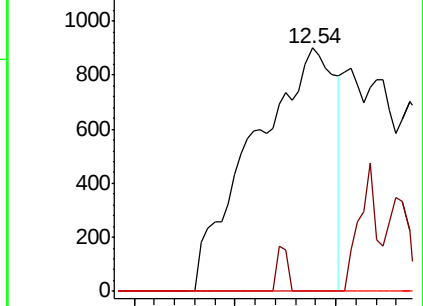
158 0.0 49.4 148.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 111.681 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

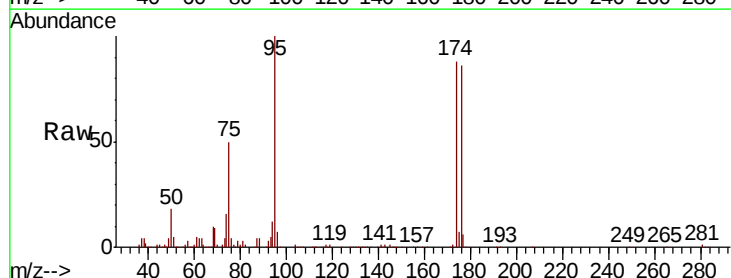
Tgt Ion: 75 Resp: 184084

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

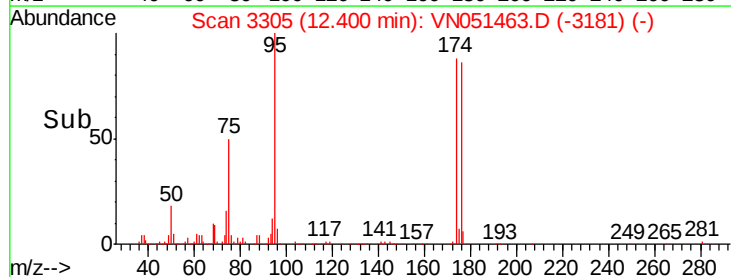
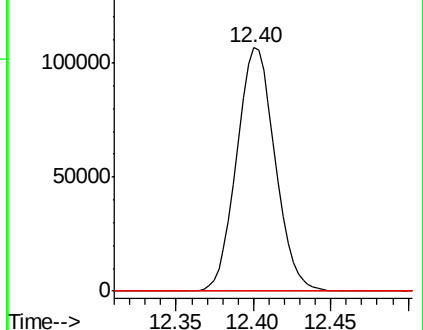
89 0.0 36.7 55.1#

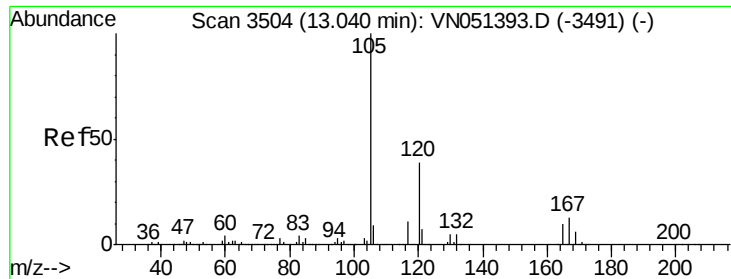


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.227 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

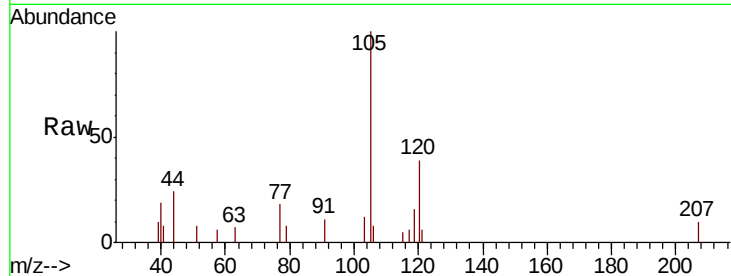
JC-02-092118-J

Tot Ion:105 Resp: 4795

Ion Ratio Lower Upper

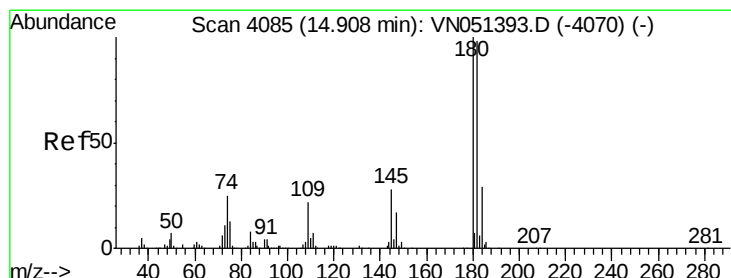
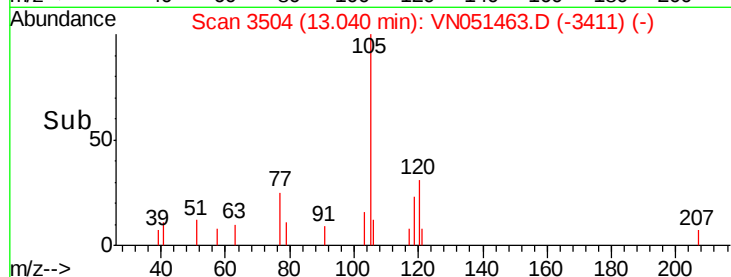
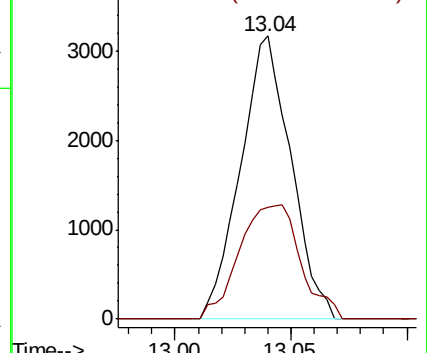
105 100

120 48.9 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 5.986 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

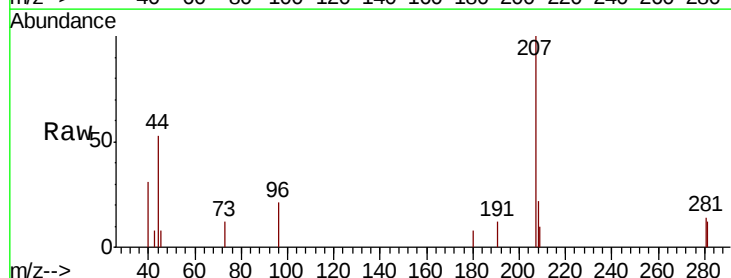
Tgt Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.6#

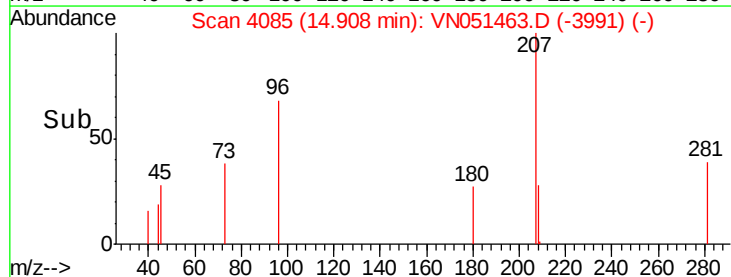
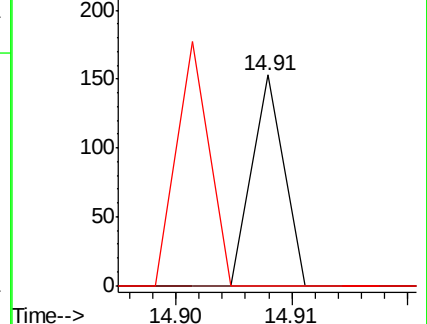
145 113.3 14.1 42.4#

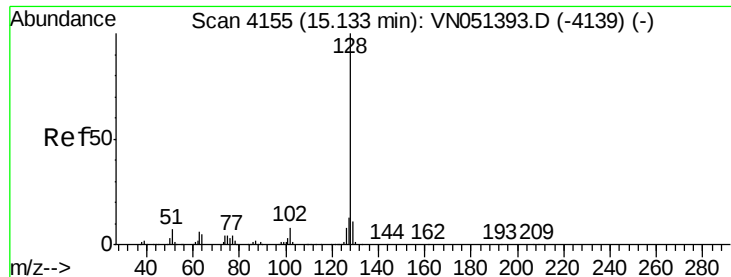


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 11.454 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051463.D

Acq: 24 Sep 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-J

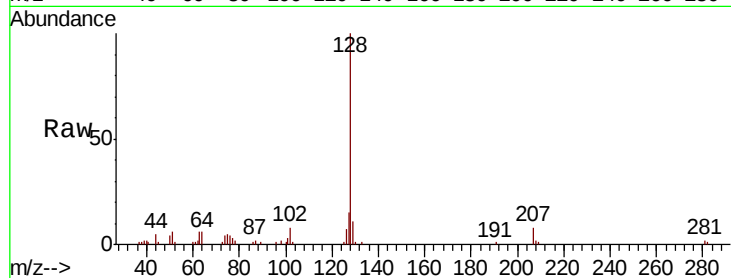
Tot Ion:128 Resp: 46121

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

129 10.1 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

