

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061868.D
 Acq On : 17 Jun 2020 23:52
 Operator : JC/MD
 Sample : L3011-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20200611

Quant Time: Jun 18 03:59:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	136740	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	246013	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	236126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	90505	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	88999	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
35) Dibromofluoromethane	7.55	113	78814	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.06	98	306060	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	12.37	95	99260	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	

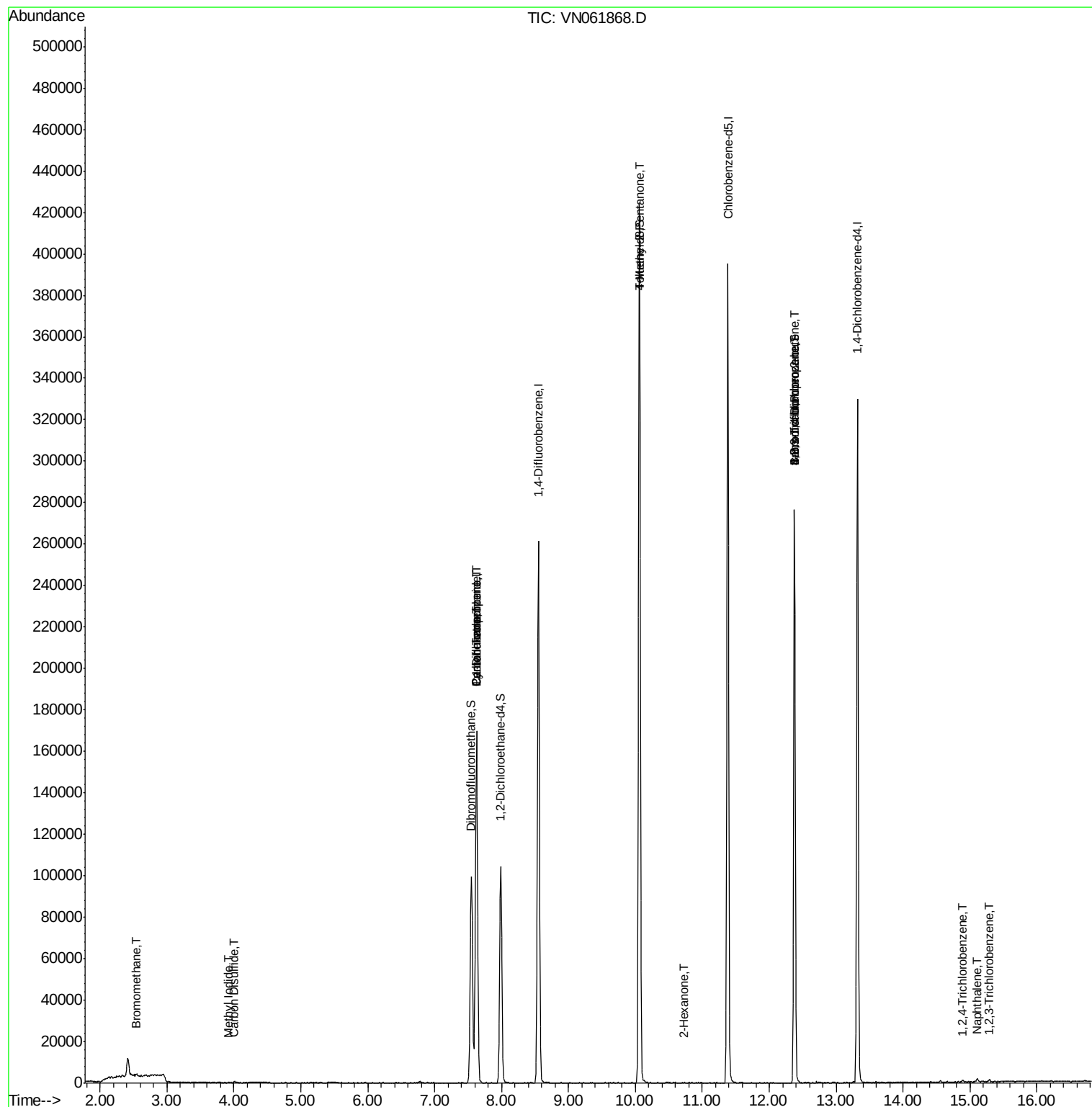
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	384	0.221	ug/l #	72
10) Methyl Iodide	3.92	142	63	5.352	ug/l #	42
17) Carbon Disulfide	4.01	76	943	0.232	ug/l #	75
31) Cyclohexane	7.63	56	2888	1.195	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	10797	4.812	ug/l #	48
38) Carbon Tetrachloride	7.62	117	13598	6.119	ug/l #	17
51) 4-Methyl-2-Pentanone	10.06	43	1235	0.708	ug/l #	1
59) 2-Hexanone	10.73	43	92	13.469	ug/l #	20
71) Bromoform	12.37	173	914	0.721	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	49592	27.910	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	49592	76.123	ug/l #	14
93) 1,2,4-Trichlorobenzene	14.89	180	422	0.314	ug/l #	85
95) Naphthalene	15.11	128	2290	3.956	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.29	180	507	0.381	ug/l #	84

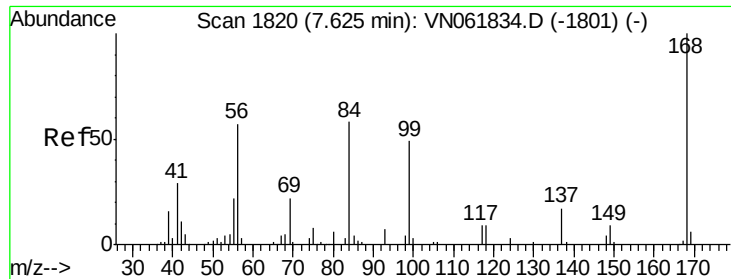
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061868.D

Acq: 17 Jun 2020 23:52

Instrument :

MSVOA_N

ClientSampleId :

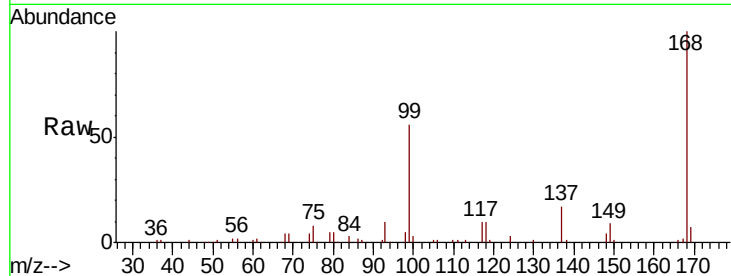
TB-20200611

Tot Ion:168 Resp: 136740

Ion Ratio Lower Upper

168 100

99 56.1 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

60000

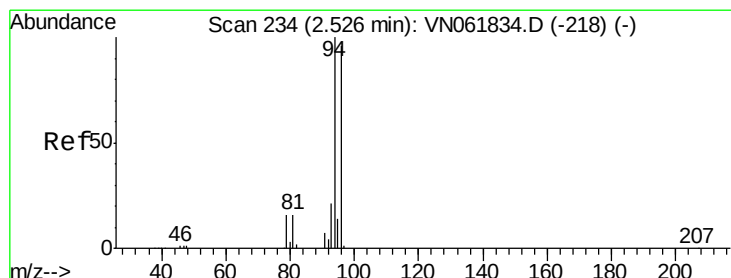
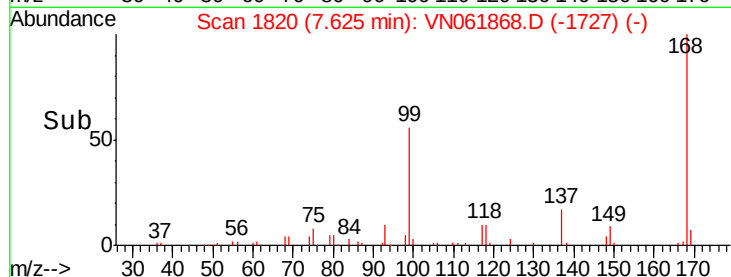
40000

20000

0

7.50 7.60 7.70

Time-->



#5

Bromomethane

Concen: 0.221 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN061868.D

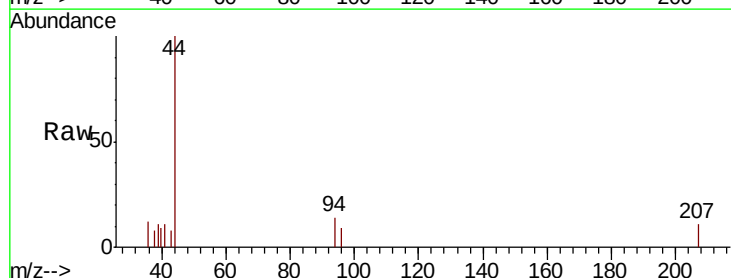
Acq: 17 Jun 2020 23:52

Tgt Ion: 94 Resp: 384

Ion Ratio Lower Upper

94 100

96 68.1 76.7 115.1#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

300

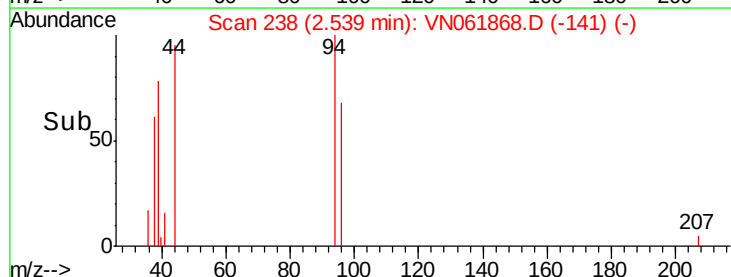
200

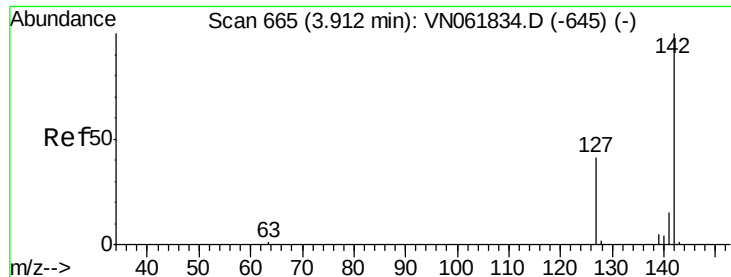
100

0

2.52 2.54 2.56

Time-->

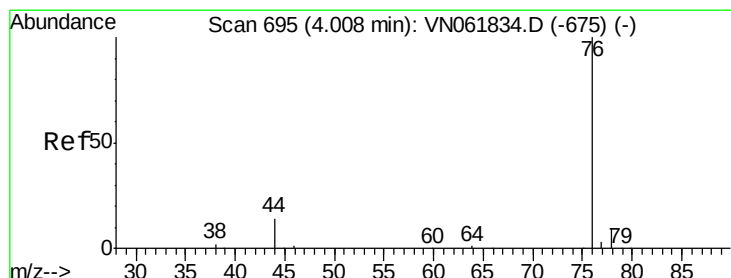
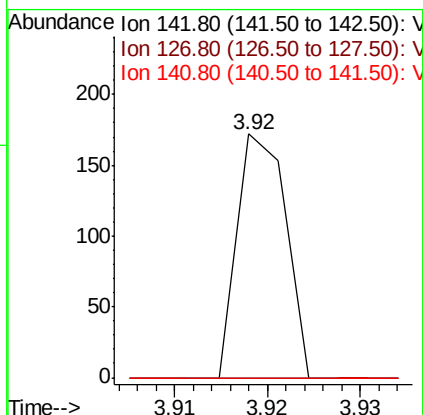
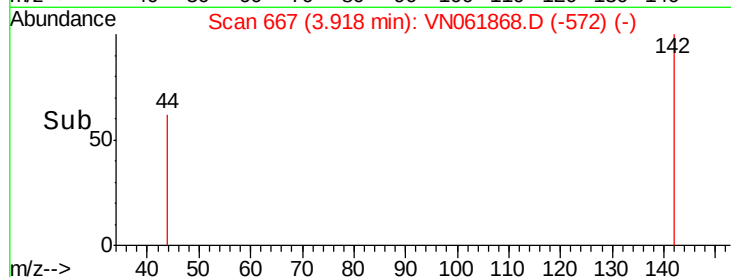
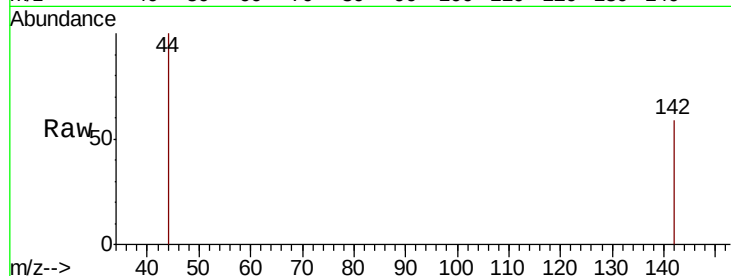




#10
Methyl Iodide
Concen: 5.352 ug/l
RT: 3.92 min Scan# 667
Delta R.T. 0.01 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

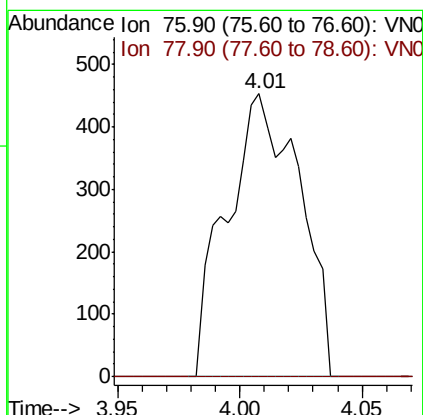
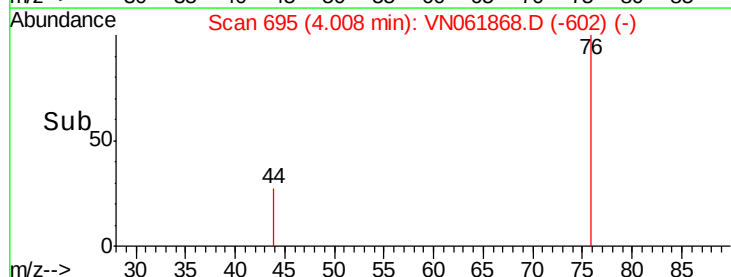
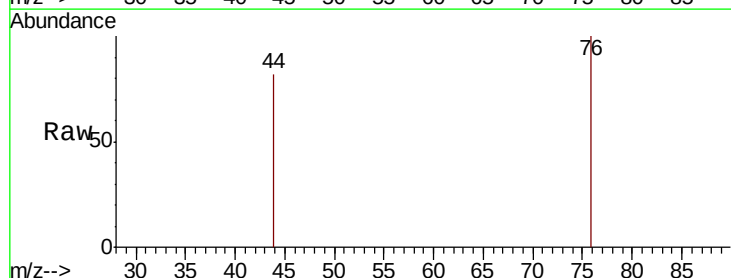
Instrument :
MSVOA_N
ClientSampled :
TB-20200611

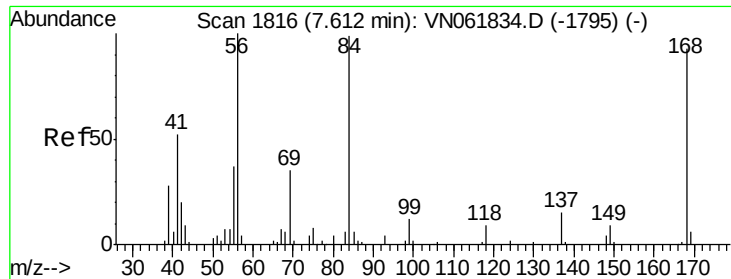
Tot Ion:142 Resp: 63
Ion Ratio Lower Upper
142 100
127 0.0 33.4 50.0#
141 0.0 11.3 16.9#



#17
Carbon Disulfide
Concen: 0.232 ug/l
RT: 4.01 min Scan# 695
Delta R.T. -0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Tgt Ion: 76 Resp: 943
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#

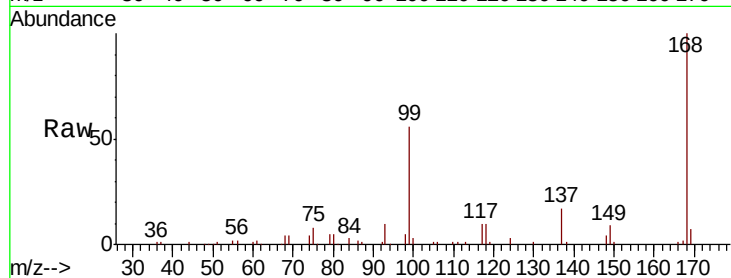




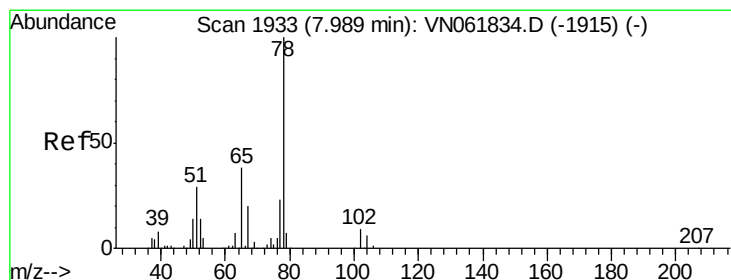
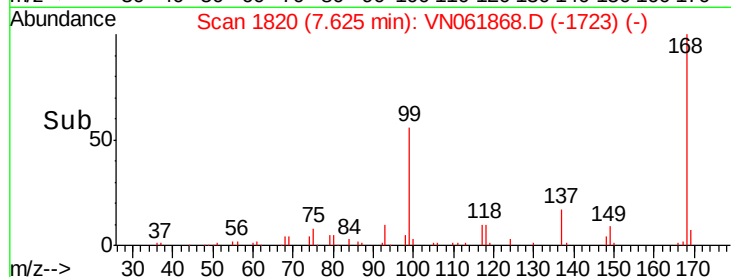
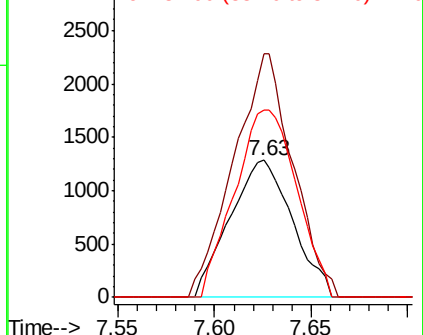
#31
Cyclohexane
Concen: 1.195 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Instrument :
MSVOA_N
ClientSampleId :
TB-20200611

Tot Ion: 56 Resp: 2888
Ion Ratio Lower Upper
56 100
69 177.5 27.7 41.5#
84 137.0 79.1 118.7#

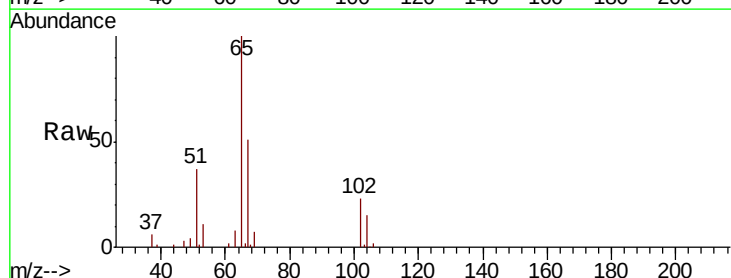


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

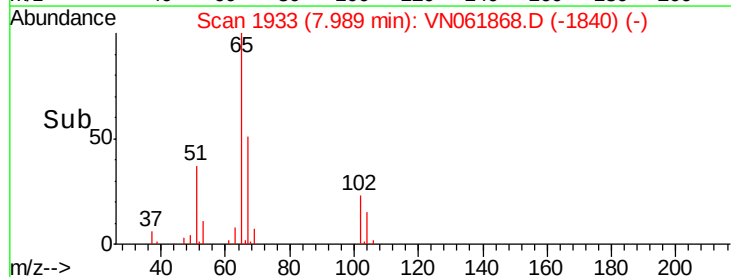
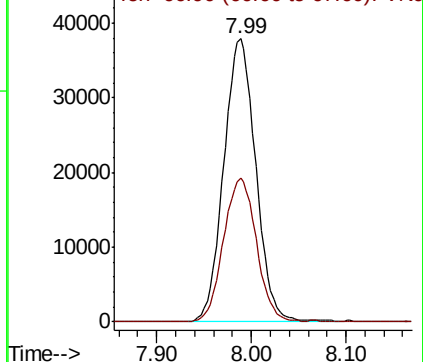


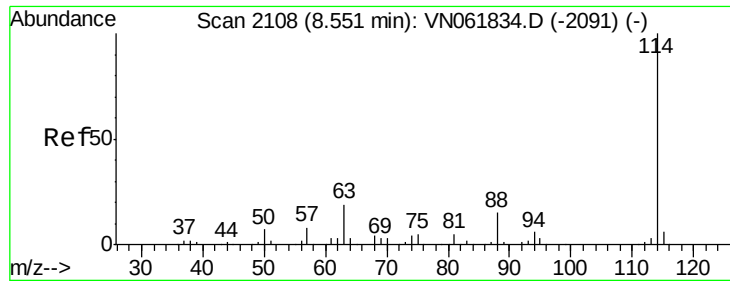
#33
1,2-Dichloroethane-d4
Concen: 48.530 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Tgt Ion: 65 Resp: 88999
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.2



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

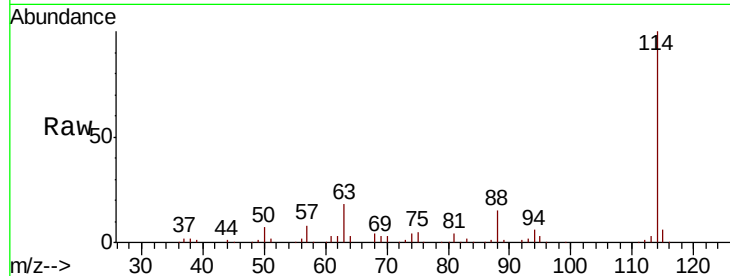




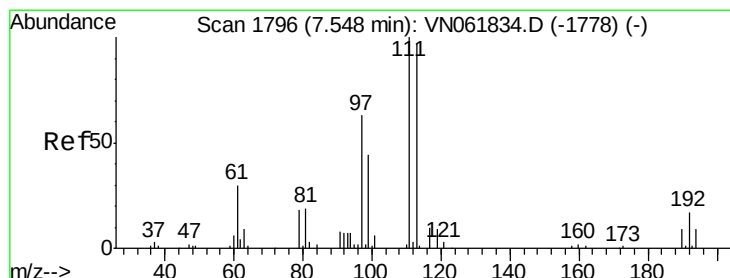
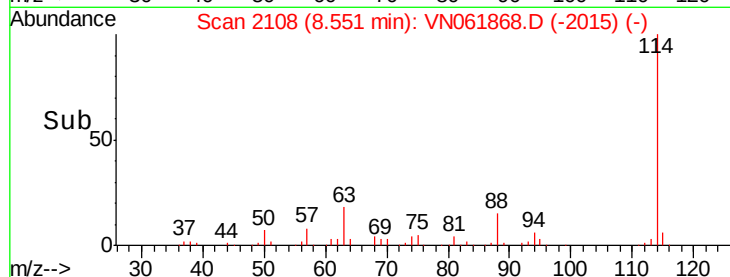
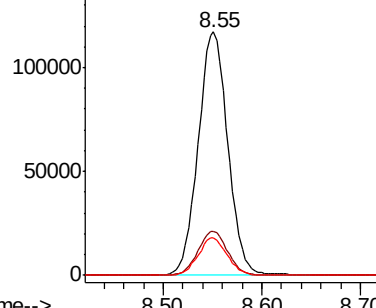
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Instrument :
MSVOA_N
ClientSampleId :
TB-20200611

Tot Ion:114 Resp: 246013
Ion Ratio Lower Upper
114 100
63 18.2 0.0 37.6
88 15.2 0.0 31.0

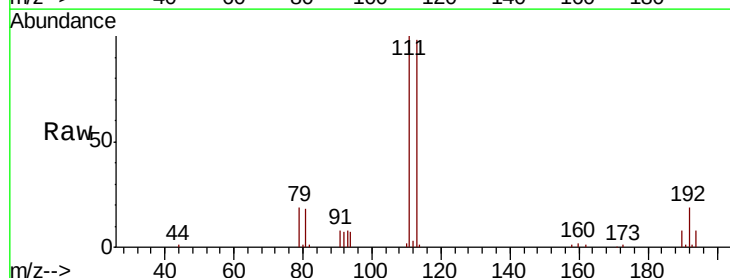


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

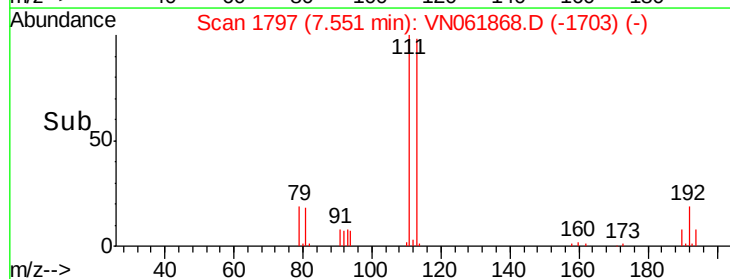
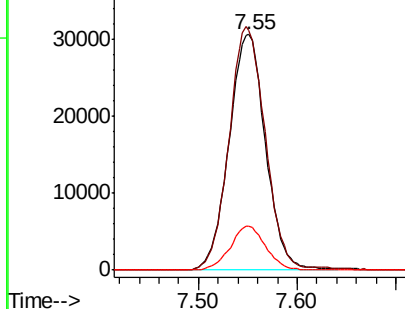


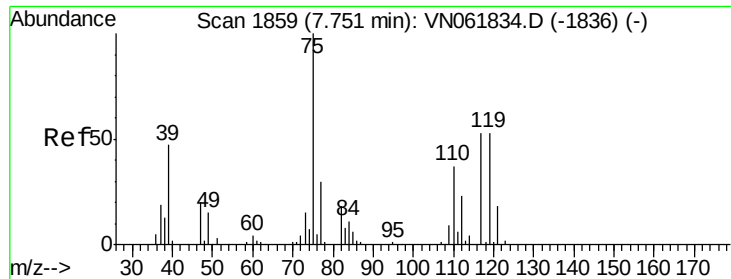
#35
Dibromofluoromethane
Concen: 50.077 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Tgt Ion:113 Resp: 78814
Ion Ratio Lower Upper
113 100
111 102.9 83.7 125.5
192 17.9 13.9 20.9



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

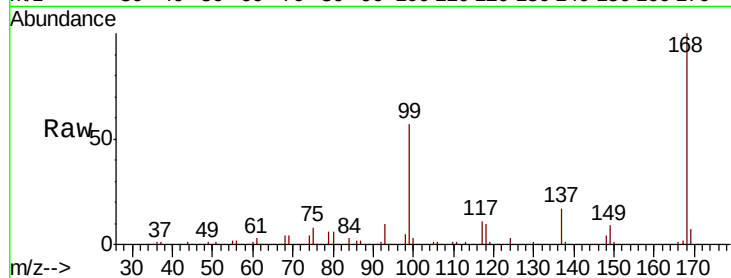




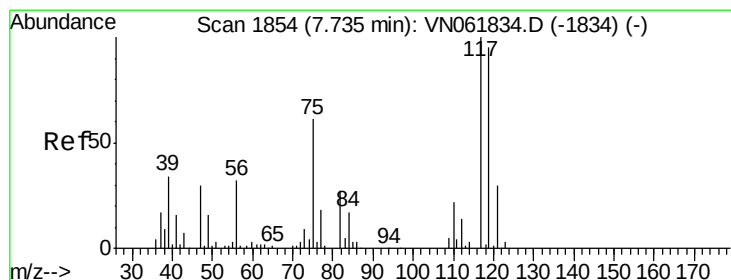
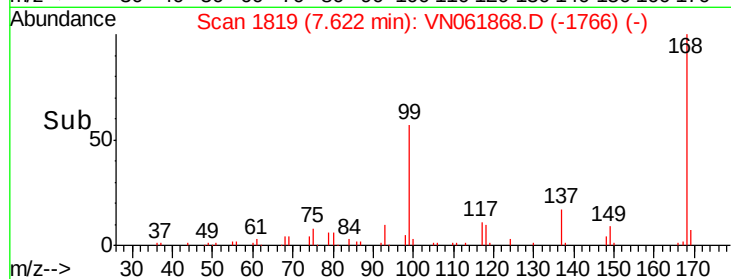
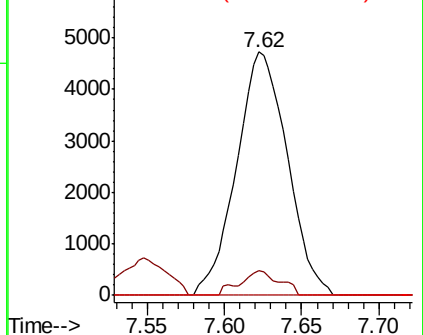
#36
 1,1-Dichloropropene
 Concen: 4.812 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061868.D
 Acq: 17 Jun 2020 23:52

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20200611

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.2	54.6#
77	0.0	24.2	36.4#

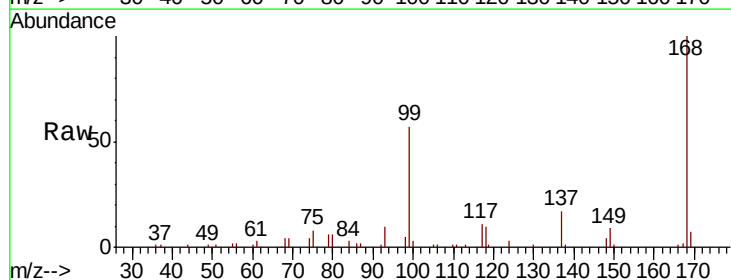


Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-1836) (-)
 Ion 109.90 (109.60 to 110.60): VN061834.D (-1836) (-)
 Ion 76.90 (76.60 to 77.60): VN061834.D (-1836) (-)

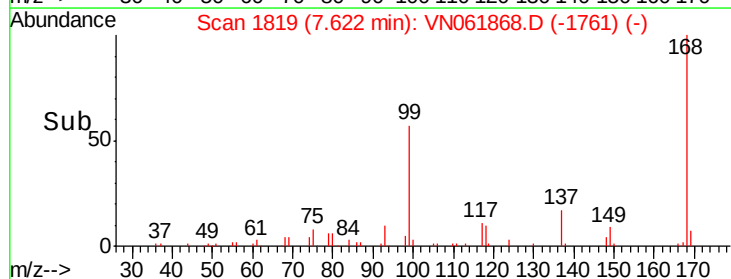
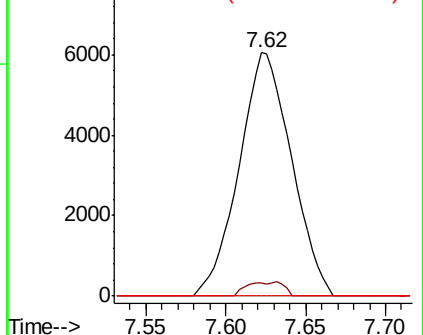


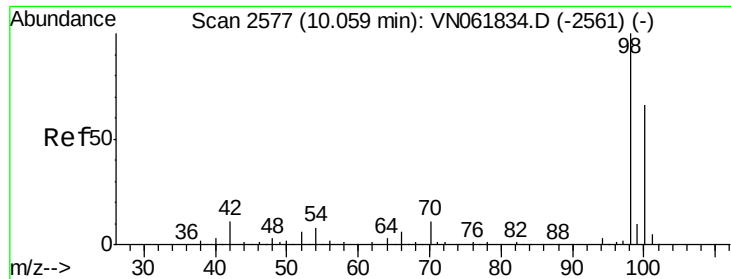
#38
 Carbon Tetrachloride
 Concen: 6.119 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN061868.D
 Acq: 17 Jun 2020 23:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	75.8	113.6#
121	0.0	23.8	35.6#



Abundance Ion 116.80 (116.50 to 117.50): VN061834.D (-1834) (-)
 Ion 118.80 (118.50 to 119.50): VN061834.D (-1834) (-)
 Ion 120.80 (120.50 to 121.50): VN061834.D (-1834) (-)

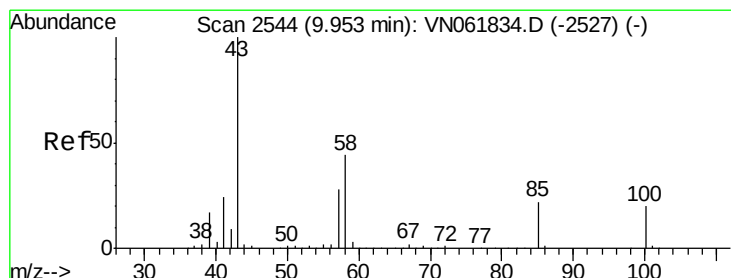
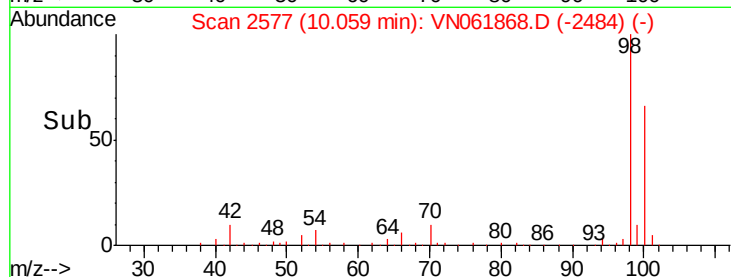
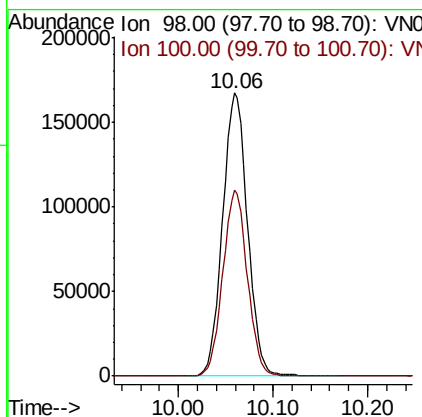
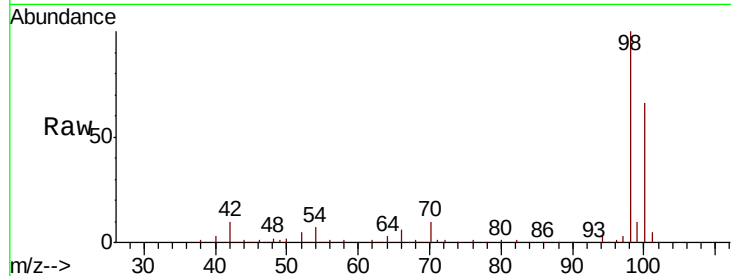




#50
Toluene-d8
Concen: 49.464 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

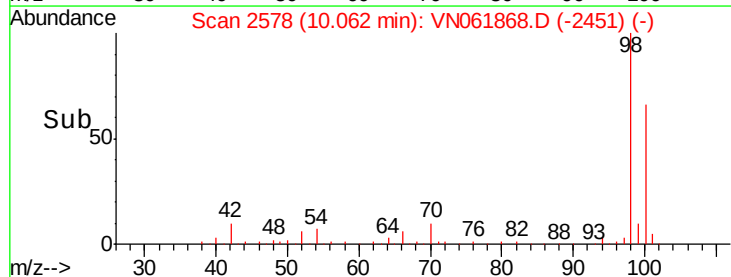
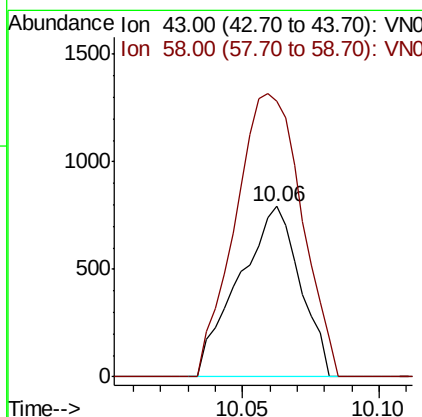
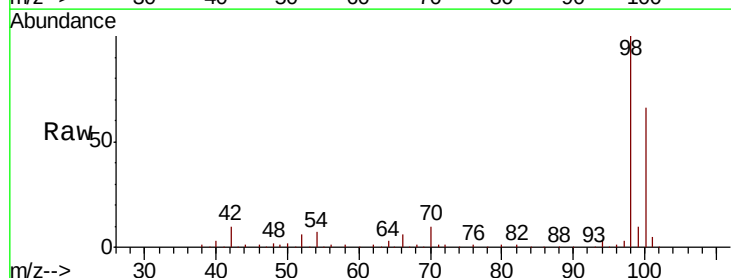
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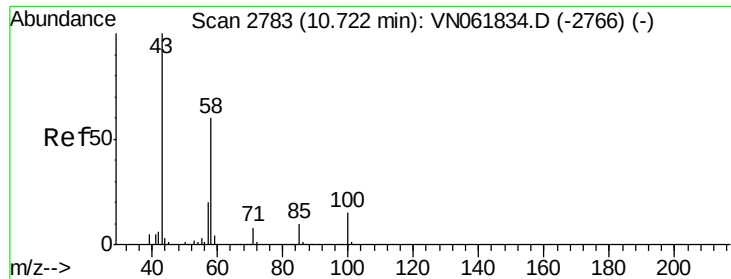
Tot Ion: 98 Resp: 306060
Ion Ratio Lower Upper
98 100
100 65.0 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 0.708 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.11 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Tgt Ion: 43 Resp: 1235
Ion Ratio Lower Upper
43 100
58 180.2 34.6 52.0#

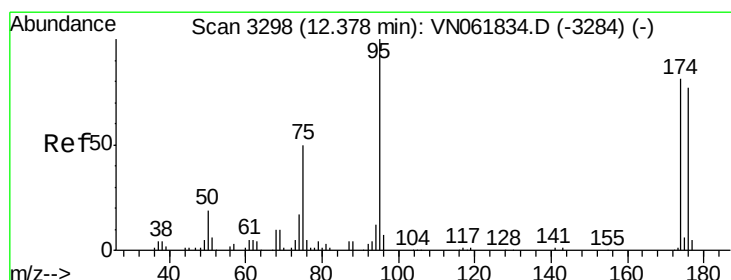
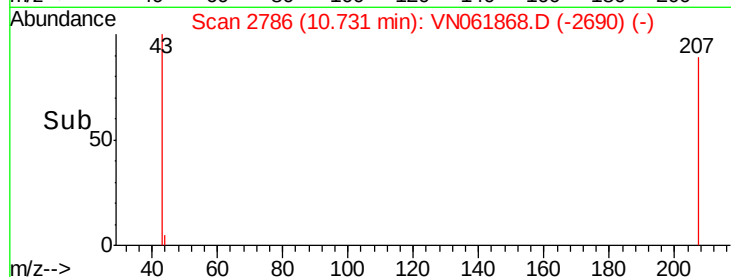
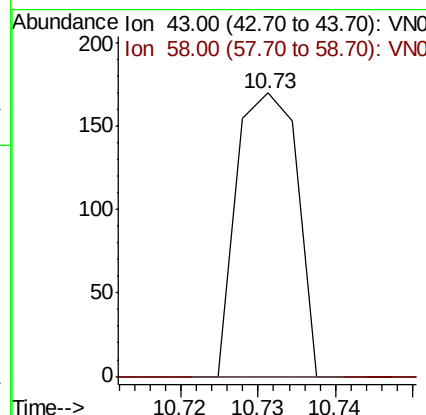
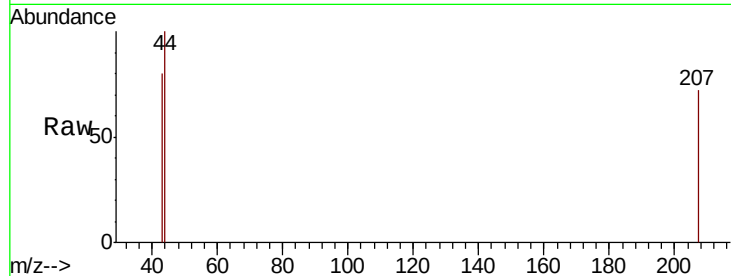




#59
2-Hexanone
Concen: 13.469 ug/l
RT: 10.73 min Scan# 2786
Delta R.T. 0.01 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

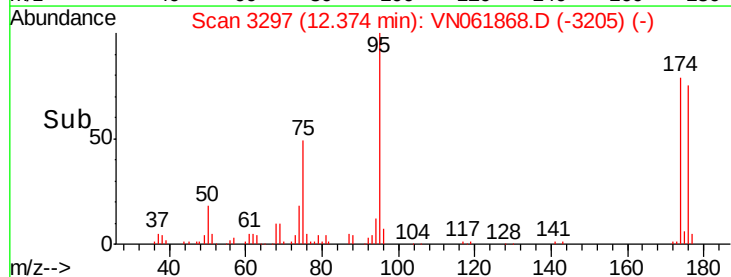
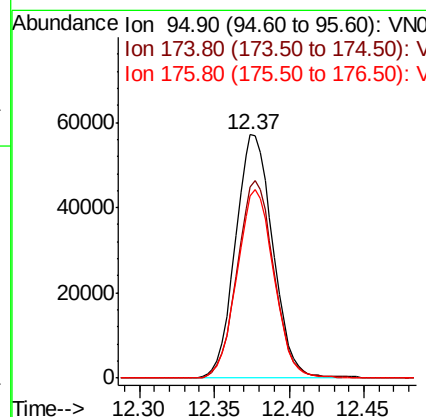
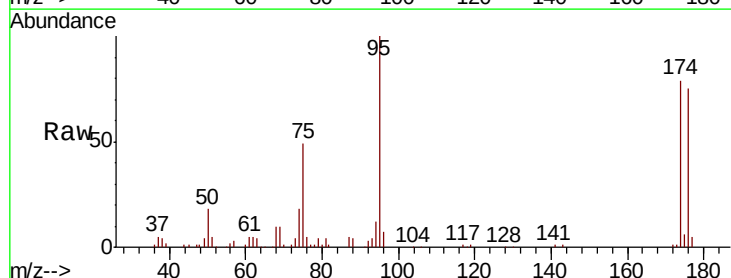
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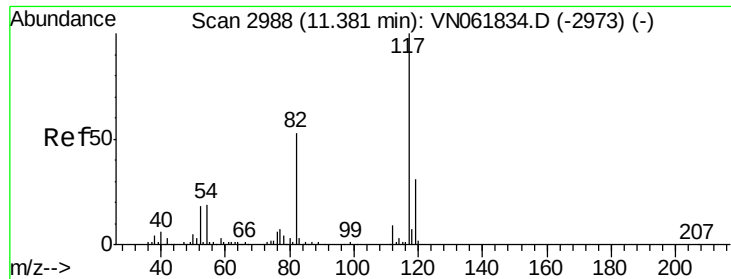
Tot Ion: 43 Resp: 92
Ion Ratio Lower Upper
43 100
58 0.0 30.1 90.5#



#62
4-Bromofluorobenzene
Concen: 46.768 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Tgt Ion: 95 Resp: 99260
Ion Ratio Lower Upper
95 100
174 80.0 0.0 158.6
176 76.6 0.0 152.0

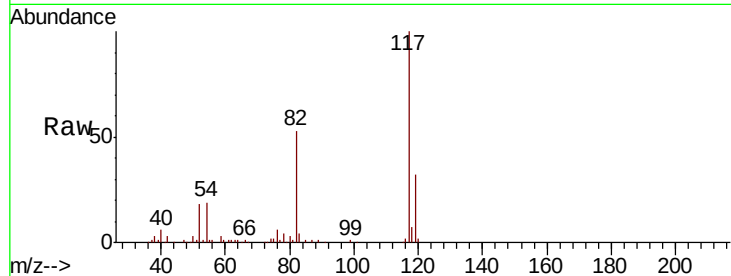




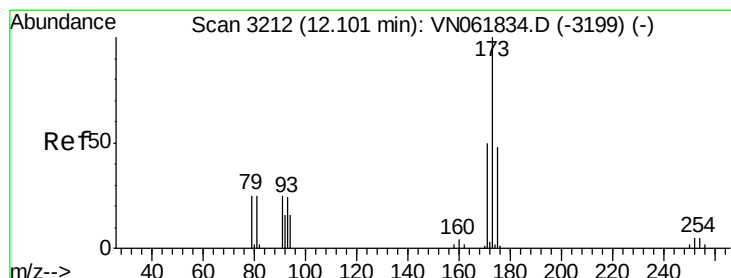
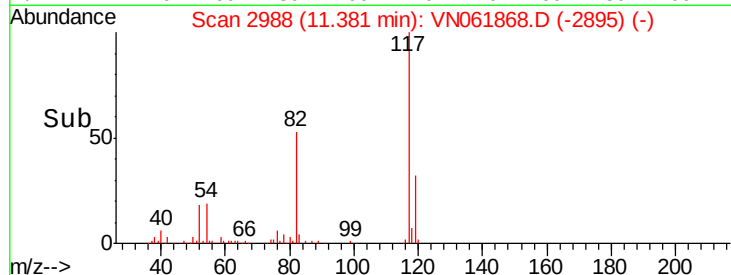
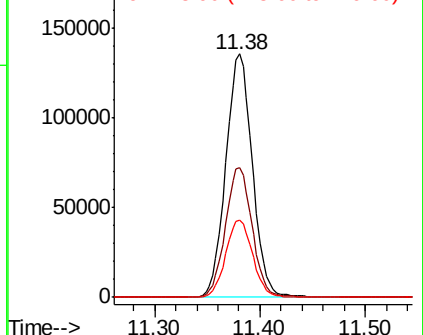
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Instrument :
MSVOA_N
ClientSampleId :
TB-20200611

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.6	64.0
119	31.6	24.7	37.1

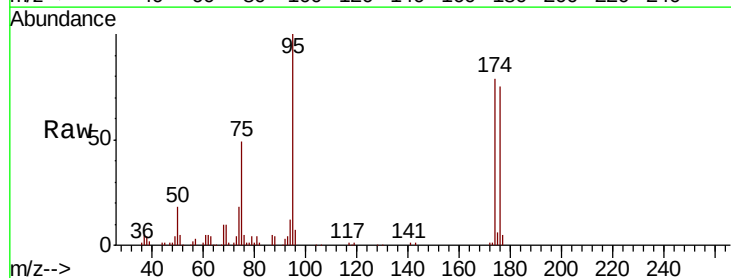


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

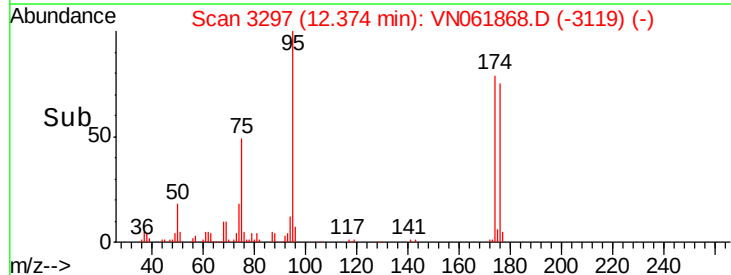
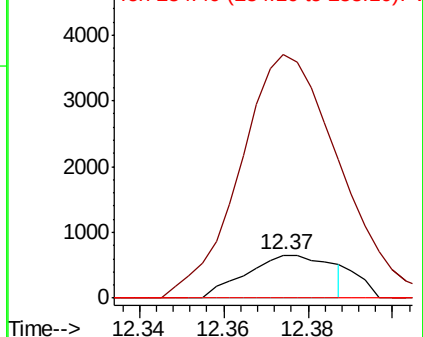


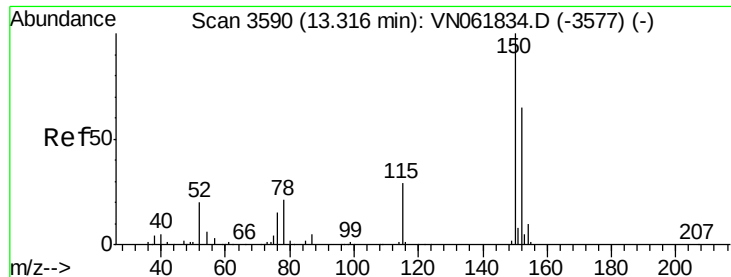
#71
Bromoform
Concen: 0.721 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Tgt Ion	Ratio	Lower	Upper
173	100		
175	574.6	23.9	71.7#
254	0.0	0.0	0.0



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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061868.D

Acq: 17 Jun 2020 23:52

Instrument :

MSVOA_N

ClientSampled :

TB-20200611

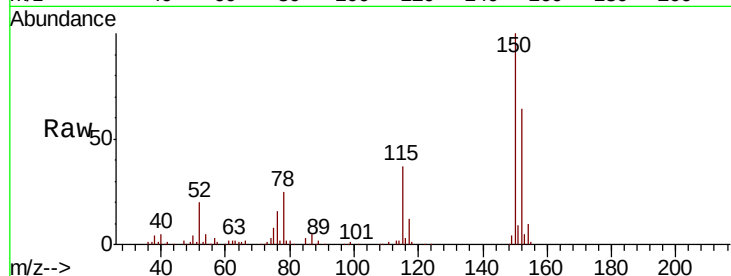
Tot Ion:152 Resp: 90505

Ion Ratio Lower Upper

152 100

115 59.4 29.1 87.3

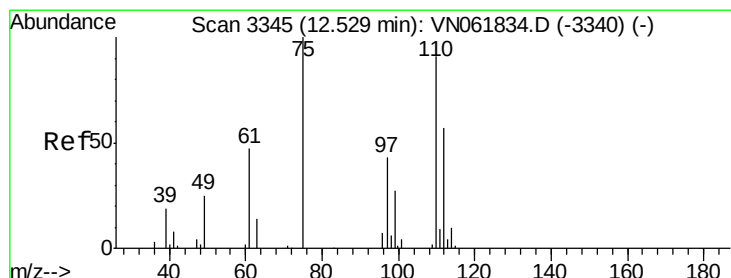
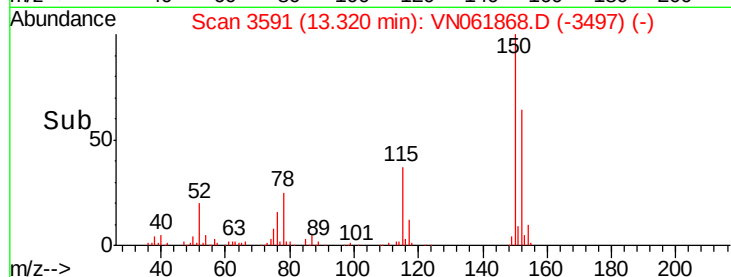
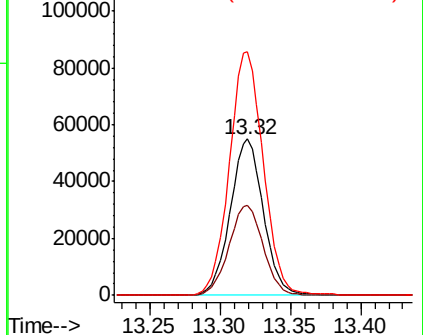
150 159.8 0.0 347.6



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: 27.910 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061868.D

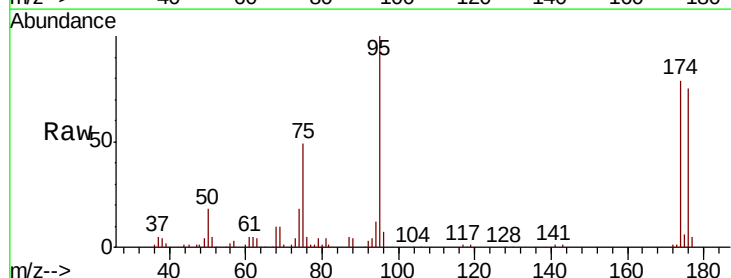
Acq: 17 Jun 2020 23:52

Tgt Ion: 75 Resp: 49592

Ion Ratio Lower Upper

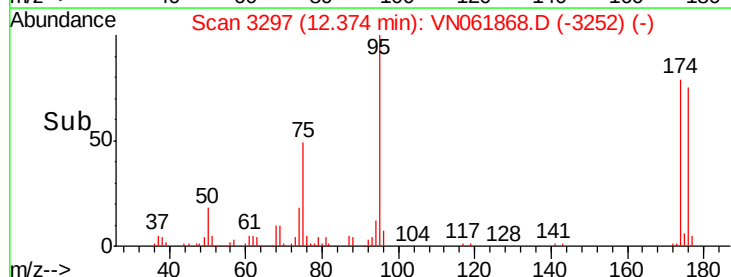
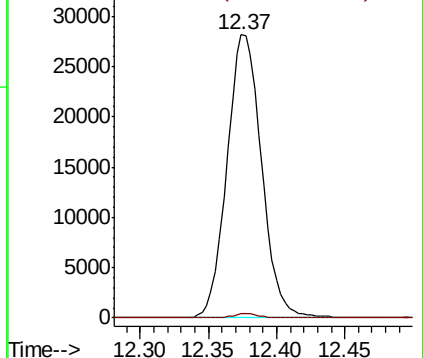
75 100

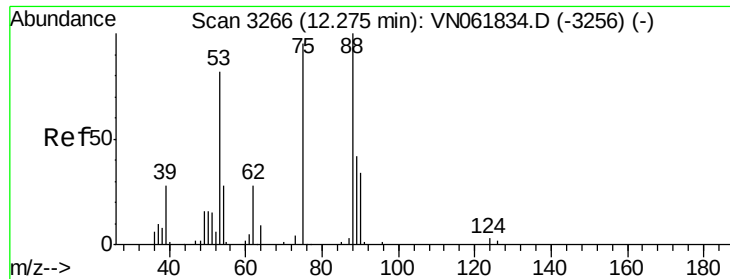
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.123 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061868.D

Acq: 17 Jun 2020 23:52

Instrument :

MSVOA_N

ClientSampled :

TB-20200611

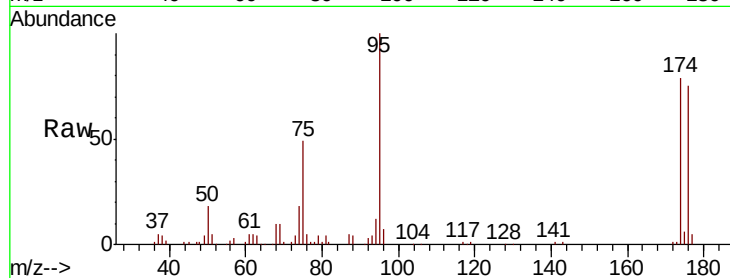
Tot Ion: 75 Resp: 49592

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

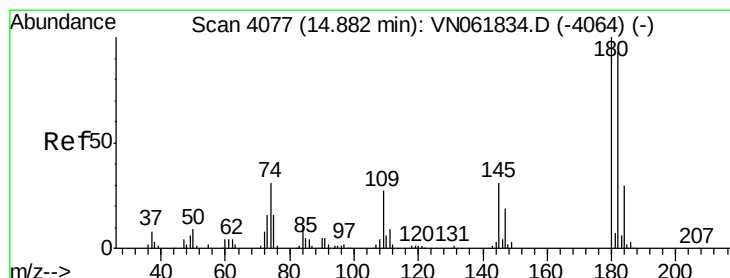
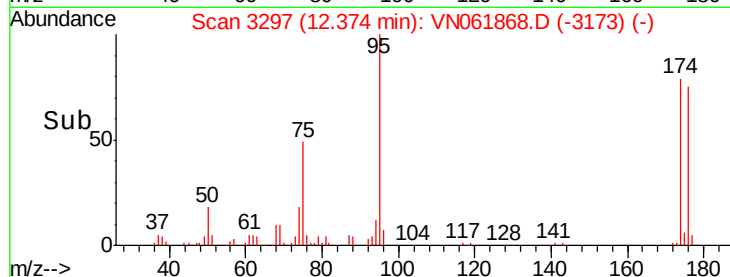
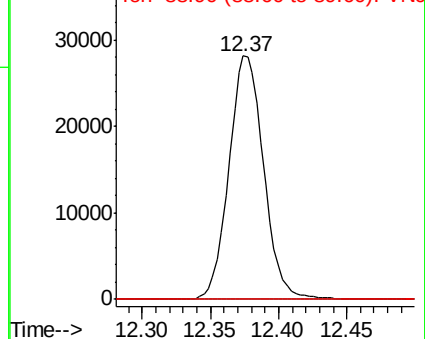
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061834.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN061834.D (-3256) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.314 ug/l

RT: 14.89 min Scan# 4080

Delta R.T. 0.01 min

Lab File: VN061868.D

Acq: 17 Jun 2020 23:52

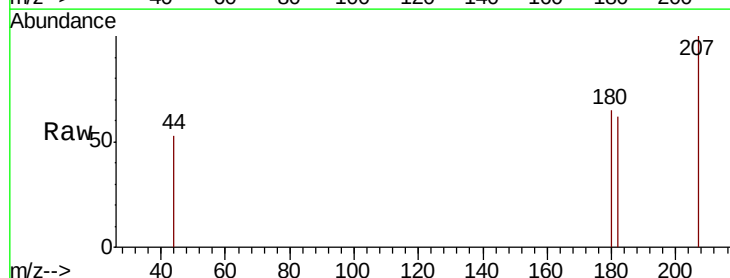
Tgt Ion: 180 Resp: 422

Ion Ratio Lower Upper

180 100

182 95.3 47.0 141.2

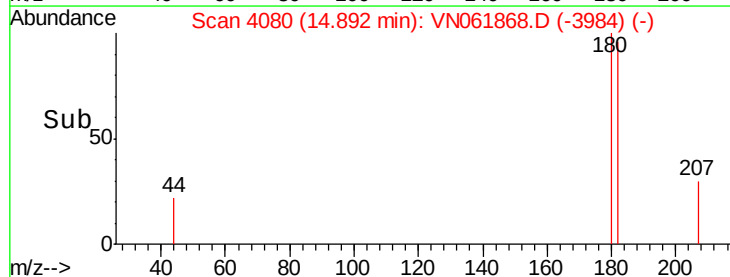
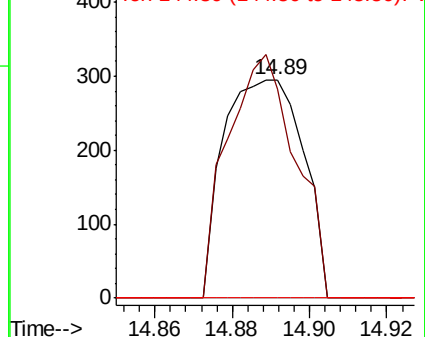
145 0.0 15.8 47.3#

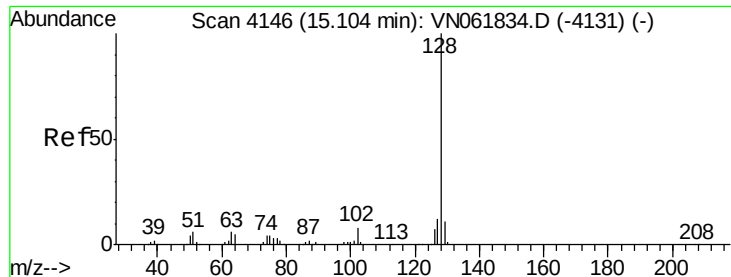


Abundance Ion 179.80 (179.50 to 180.50): VN061834.D (-4064) (-)

Ion 181.80 (181.50 to 182.50): VN061834.D (-4064) (-)

Ion 144.80 (144.50 to 145.50): VN061834.D (-4064) (-)

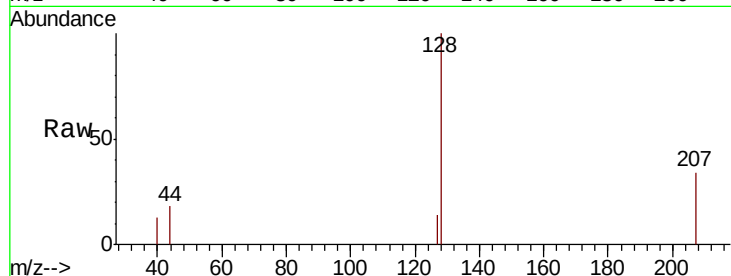




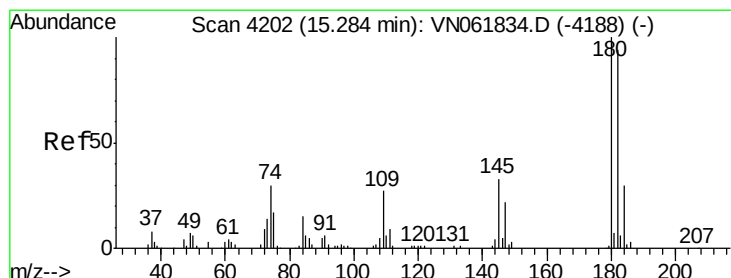
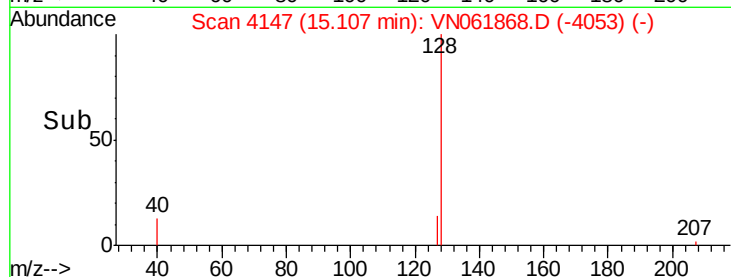
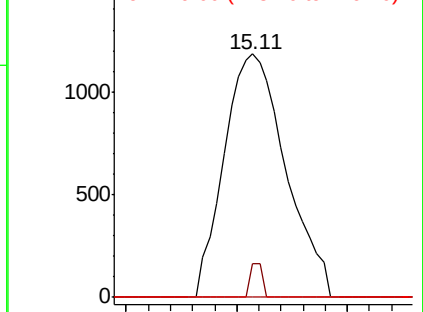
#95
Naphthalene
Concen: 3.956 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Instrument :
MSVOA_N
ClientSampled :
TB-20200611

Tot Ion:128 Resp: 2290
Ion Ratio Lower Upper
128 100
127 2.8 10.3 15.5#
129 0.0 8.6 13.0#

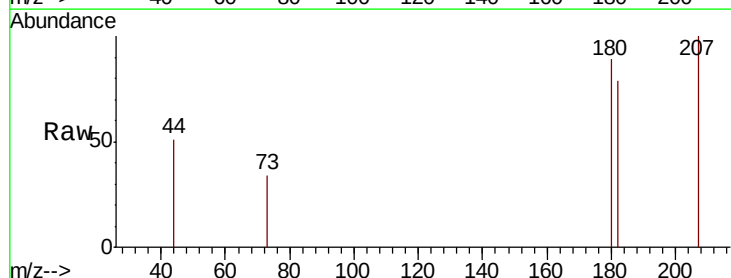


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.381 ug/l
RT: 15.29 min Scan# 4203
Delta R.T. 0.00 min
Lab File: VN061868.D
Acq: 17 Jun 2020 23:52

Tgt Ion:180 Resp: 507
Ion Ratio Lower Upper
180 100
182 93.9 47.9 143.6
145 0.0 16.5 49.5#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

