

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\
 Data File : VN061986.D
 Acq On : 20 Jun 2020 8:52
 Operator : JC/MD
 Sample : L3043-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REDUP06-20200616

Quant Time: Jun 22 00:44:52 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	136311	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	249984	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	246794	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	93185	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	95307	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
35) Dibromofluoromethane	7.55	113	81189	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
50) Toluene-d8	10.06	98	319385	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
62) 4-Bromofluorobenzene	12.38	95	104662	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	

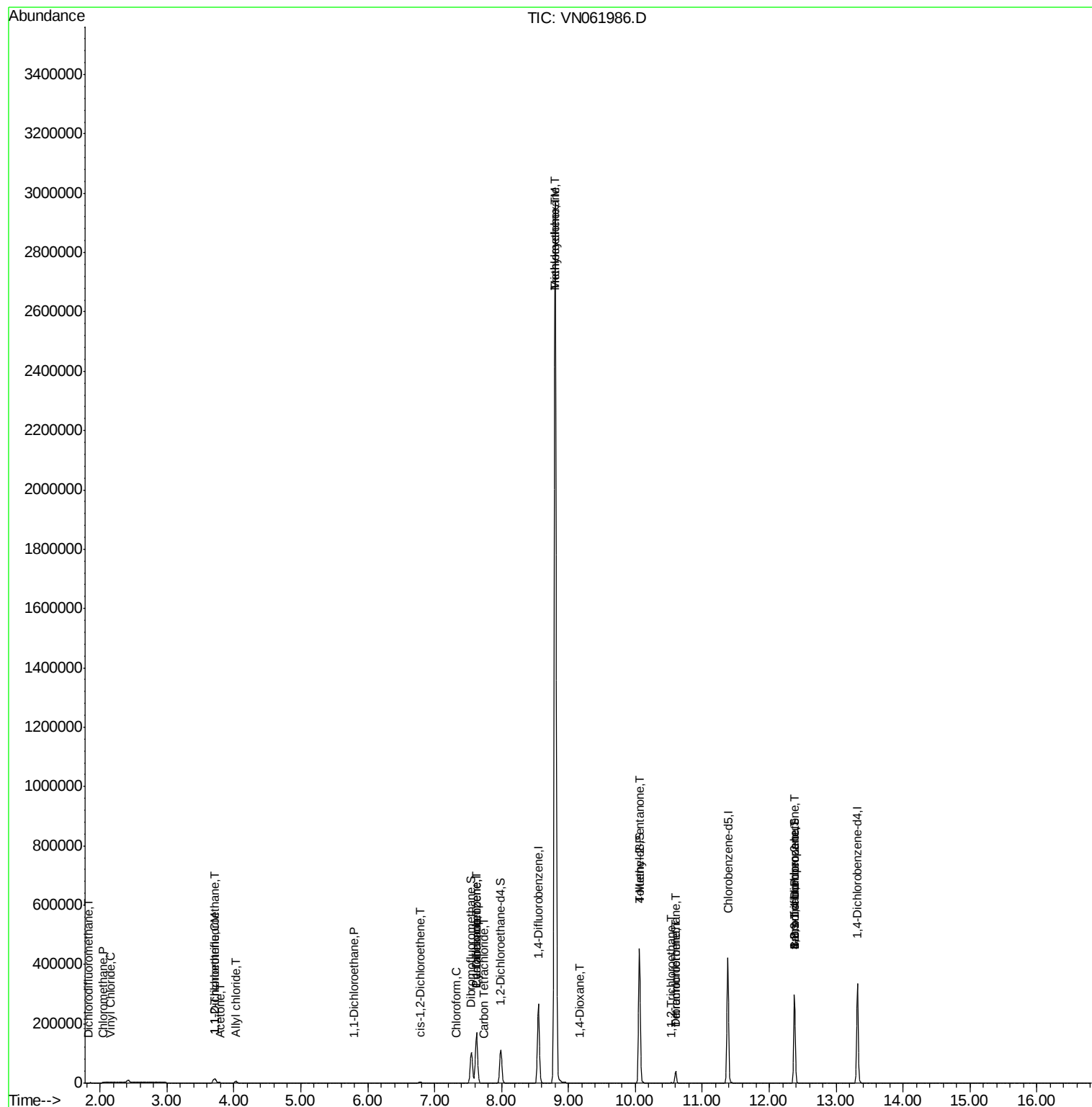
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	145	0.373	ug/l #	41
3) Chloromethane	2.03	50	603	0.319	ug/l #	42
4) Vinyl Chloride	2.16	62	508	0.225	ug/l #	86
9) 1,1,2-Trichlorotrifluoroet	3.72	101	7491	5.419	ug/l	97
12) 1,1-Dichloroethene	3.70	96	4123	2.977	ug/l	92
14) Allyl chloride	4.04	41	751	0.409	ug/l #	60
16) Acetone	3.79	43	3026	5.604	ug/l #	86
24) 1,1-Dichloroethane	5.80	63	1275	0.463	ug/l #	82
27) cis-1,2-Dichloroethene	6.79	96	3222	1.755	ug/l	58
30) Chloroform	7.33	83	1300	0.442	ug/l	92
31) Cyclohexane	7.62	56	2846	1.181	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	10922	4.790	ug/l #	48
38) Carbon Tetrachloride	7.73	117	464	0.205	ug/l #	79
39) Methylcyclohexane	8.80	83	13153	5.357	ug/l #	1
44) Trichloroethene	8.80	130	1098490	604.310	ug/l	99
49) 1,4-Dioxane	9.17	88	391	12.480	ug/l #	63
51) 4-Methyl-2-Pentanone	10.06	43	1209	0.682	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	616	0.361	ug/l #	81
60) Dibromochloromethane	10.60	129	8602	4.517	ug/l #	11
64) Tetrachloroethene	10.60	164	9274	5.896	ug/l	97
71) Bromoform	12.37	173	908	0.686	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	52994	28.967	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	52994	79.005	ug/l #	14

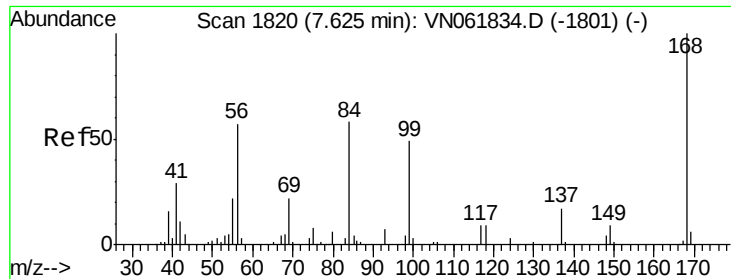
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
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: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

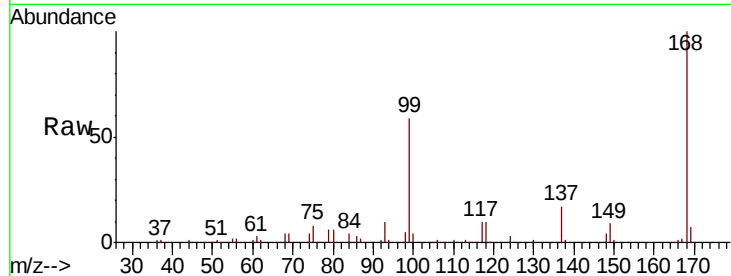
REDUP06-20200616

Tot Ion:168 Resp: 136311

Ion Ratio Lower Upper

168 100

99 58.8 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

60000

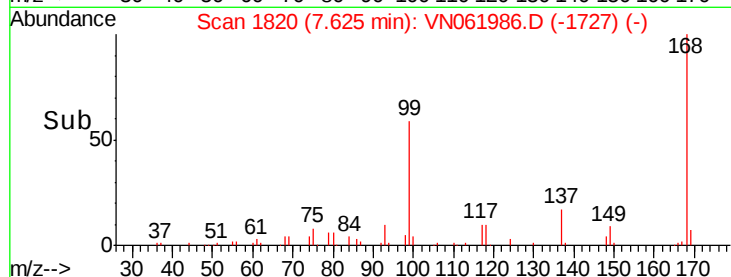
40000

20000

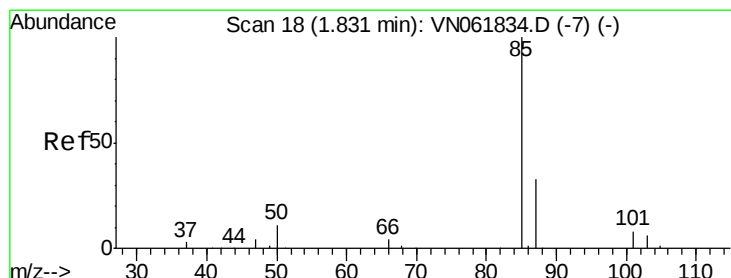
0

7.50 7.60 7.70

7.63



Time-->



#2

Dichlorodifluoromethane

Concen: 0.373 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061986.D

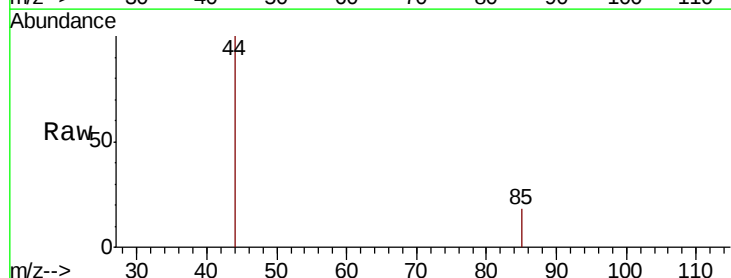
Acq: 20 Jun 2020 8:52

Tgt Ion: 85 Resp: 145

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

200

150

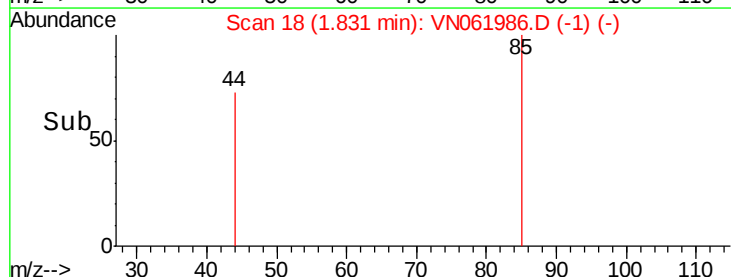
100

50

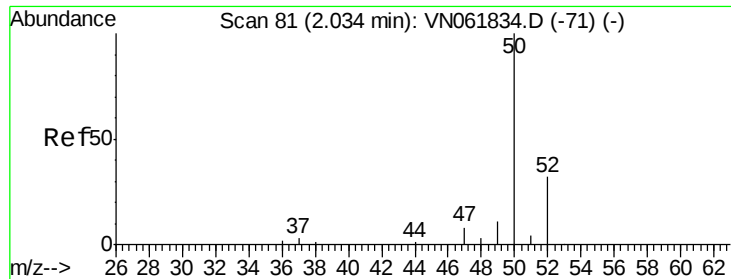
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1.81 1.82 1.83 1.84

1.83



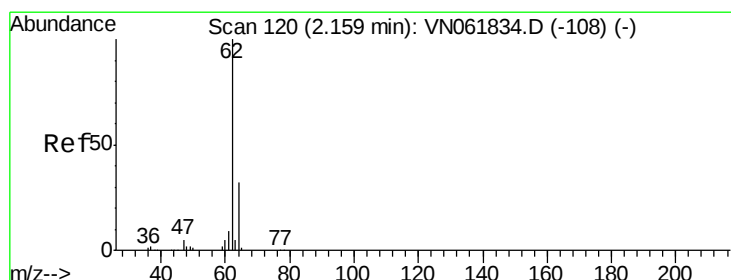
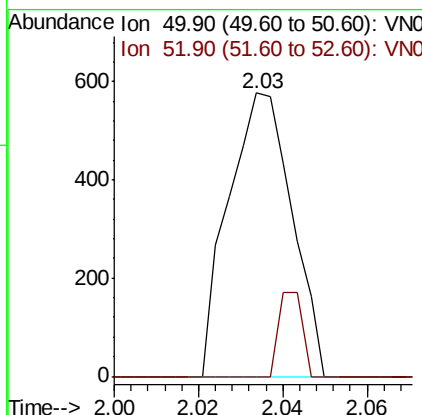
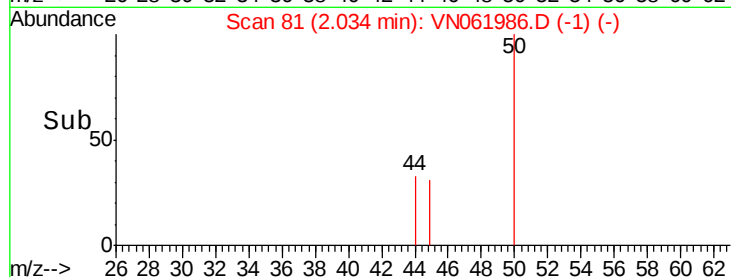
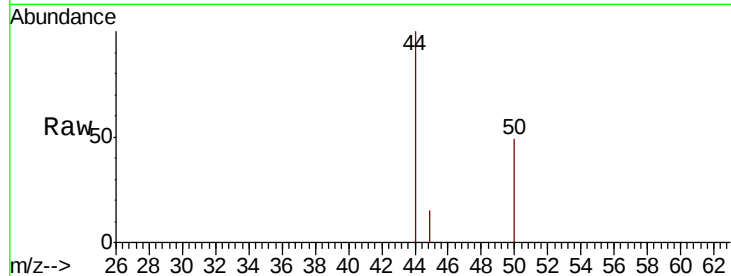
Time-->



#3
Chloromethane
Concen: 0.319 ug/l
RT: 2.03 min Scan# 81
Delta R.T. -0.00 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

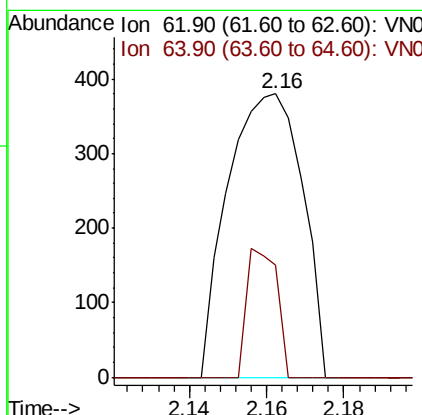
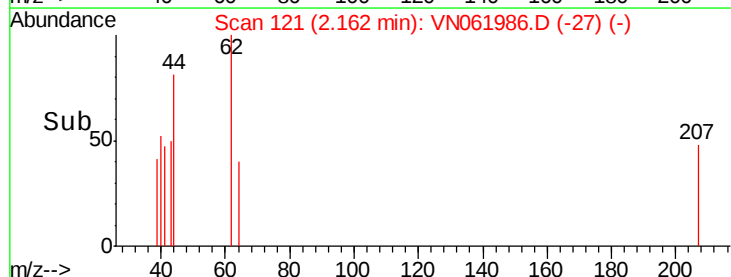
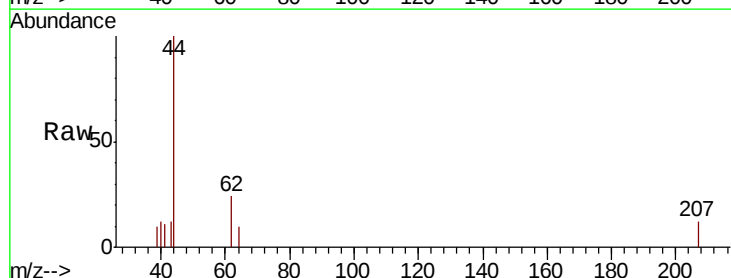
Instrument :
MSVOA_N
ClientSampleId :
REDUP06-20200616

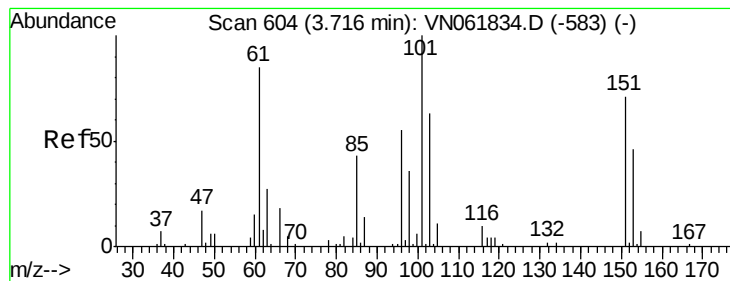
Tot Ion: 50 Resp: 603
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#



#4
Vinyl Chloride
Concen: 0.225 ug/l
RT: 2.16 min Scan# 121
Delta R.T. 0.00 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

Tgt Ion: 62 Resp: 508
Ion Ratio Lower Upper
62 100
64 39.7 25.5 38.3#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.419 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

REDUP06-20200616

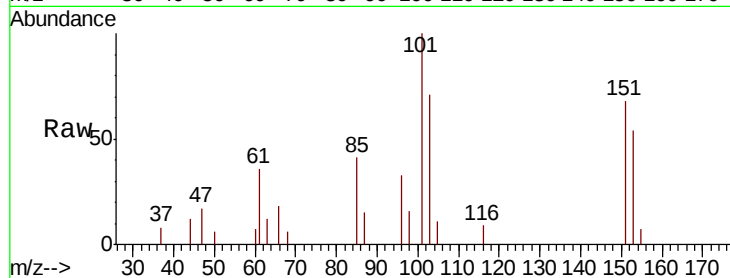
Tot Ion:101 Resp: 7491

Ion Ratio Lower Upper

101 100

85 42.7 35.0 52.6

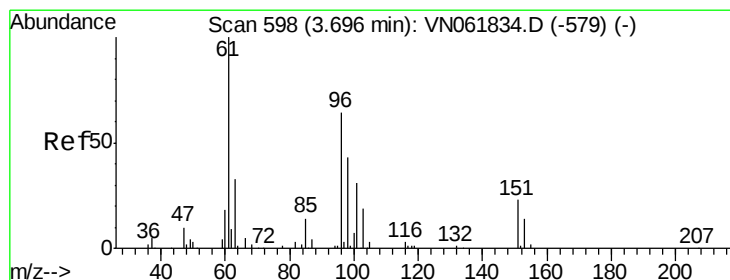
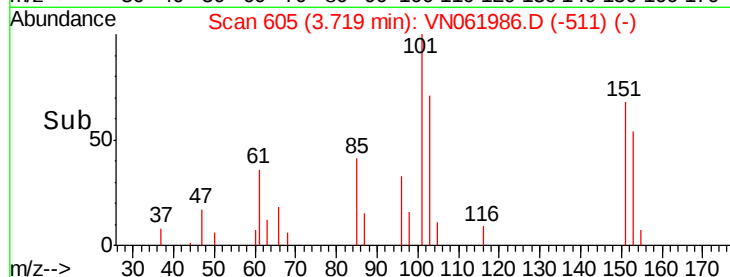
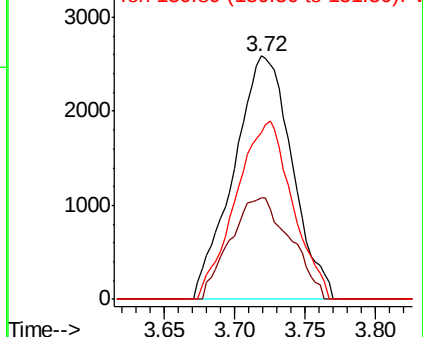
151 71.0 59.2 88.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 2.977 ug/l

RT: 3.70 min Scan# 598

Delta R.T. -0.00 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

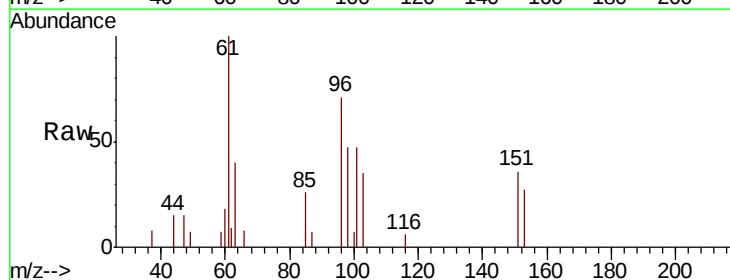
Tgt Ion: 96 Resp: 4123

Ion Ratio Lower Upper

96 100

61 140.2 124.3 186.5

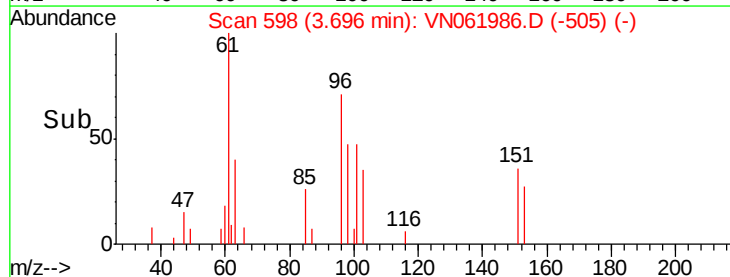
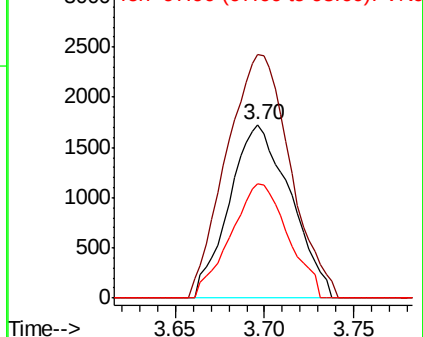
98 66.1 53.1 79.7

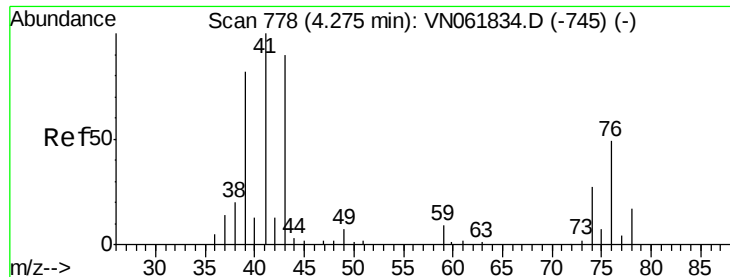


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

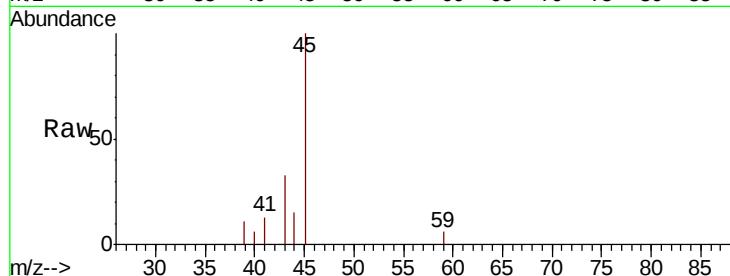




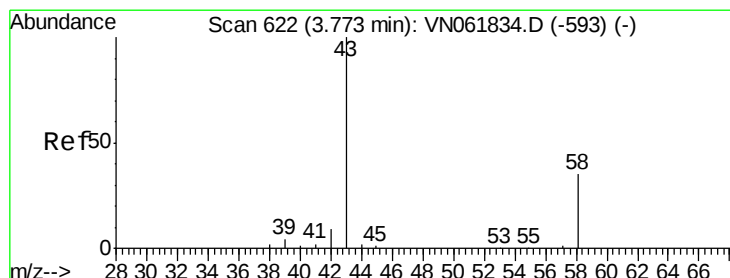
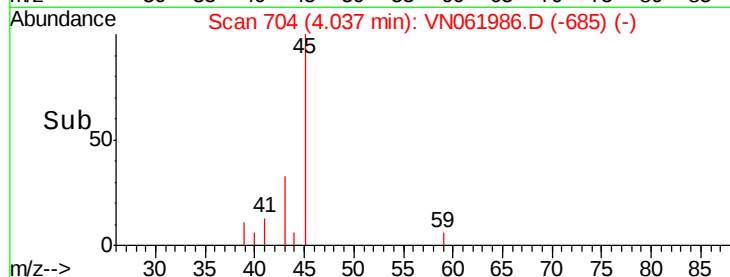
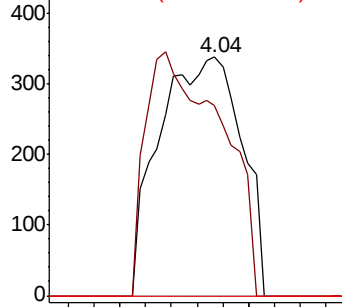
#14
Allvl chloride
Concen: 0.409 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.24 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

Instrument :
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REDUP06-20200616

Tot Ion: 41 Resp: 751
Ion Ratio Lower Upper
41 100
39 94.5 60.2 90.2#
76 0.0 36.3 54.5#

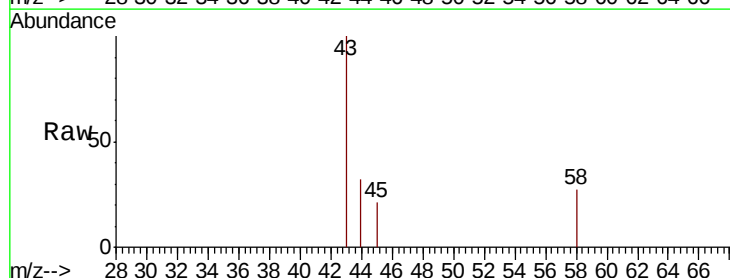


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0

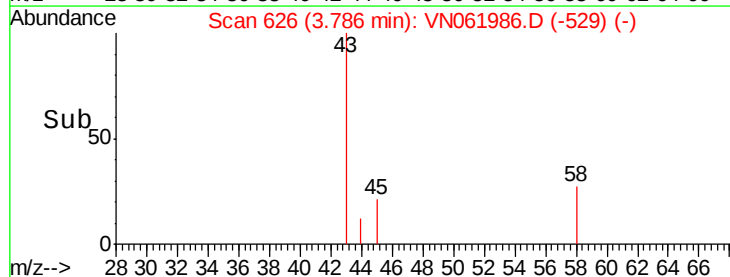
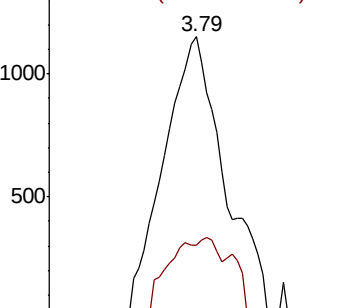


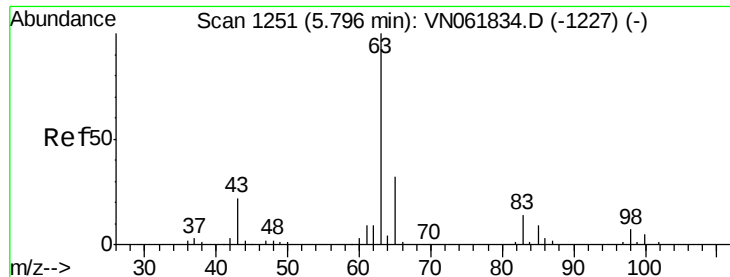
#16
Acetone
Concen: 5.604 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

Tgt Ion: 43 Resp: 3026
Ion Ratio Lower Upper
43 100
58 26.5 27.8 41.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

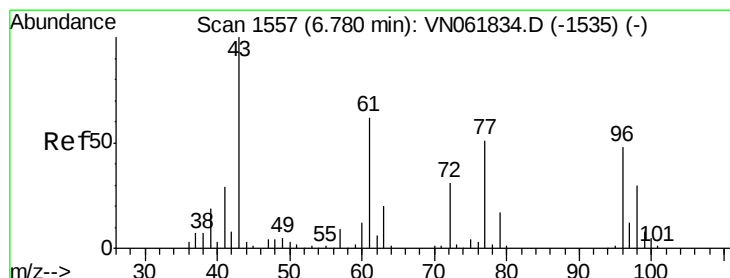
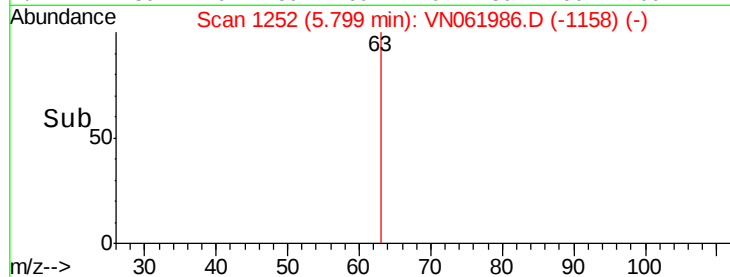
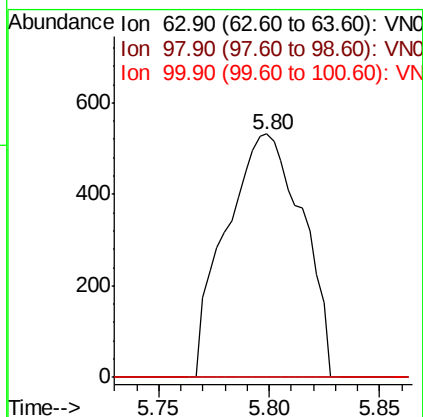
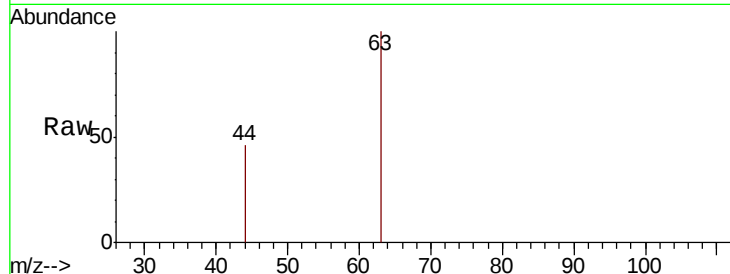




#24
 1,1-Dichloroethane
 Concen: 0.463 ug/l
 RT: 5.80 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VN061986.D
 Acq: 20 Jun 2020 8:52

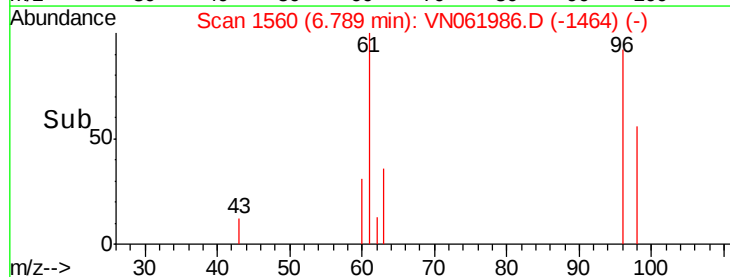
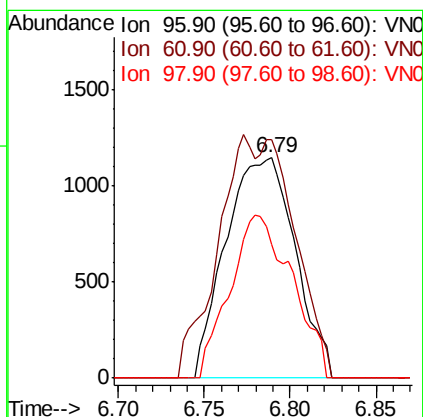
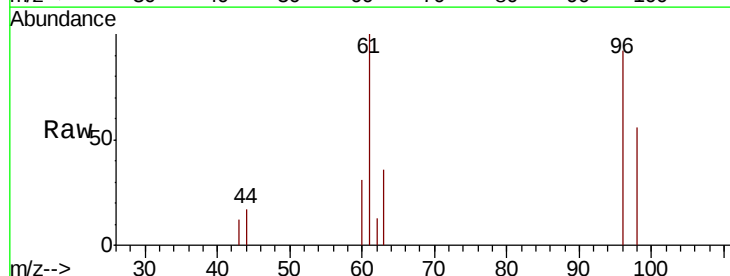
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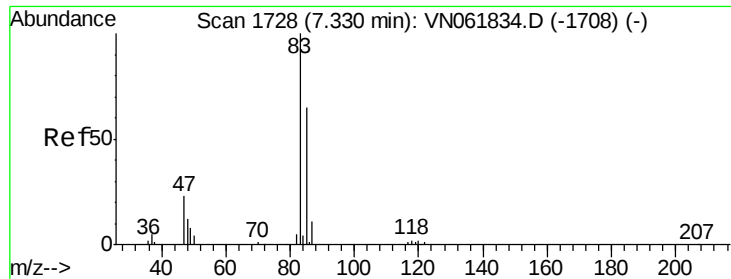
Tot Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.4#
100	0.0	2.5	7.4#



#27
 cis-1,2-Dichloroethene
 Concen: 1.755 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. 0.01 min
 Lab File: VN061986.D
 Acq: 20 Jun 2020 8:52

Tgt Ion	Ratio	Lower	Upper
96	100		
61	60.8	0.0	265.6
98	66.0	0.0	128.2

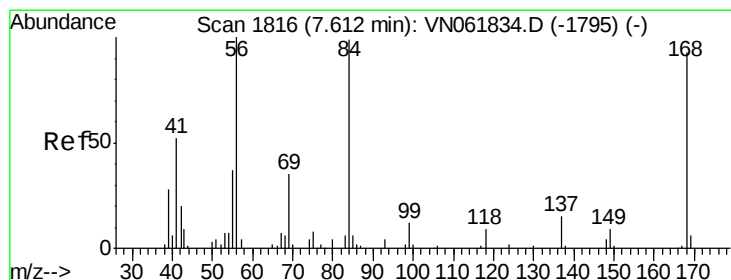
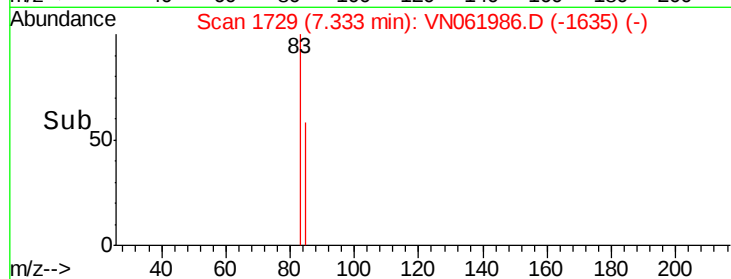
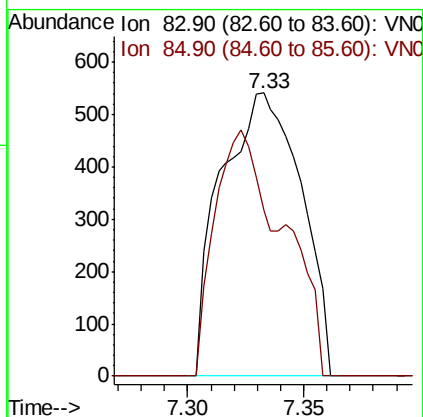
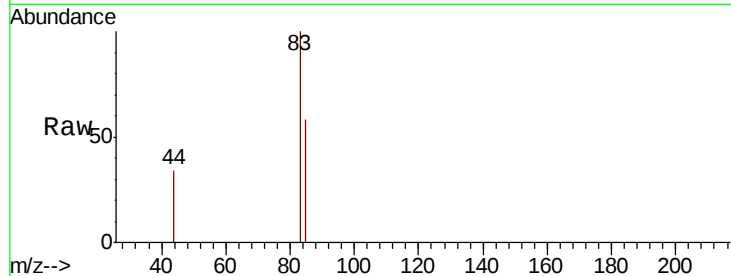




#30
Chloroform
Concen: 0.442 ug/l
RT: 7.33 min Scan# 1729
Delta R.T. 0.00 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

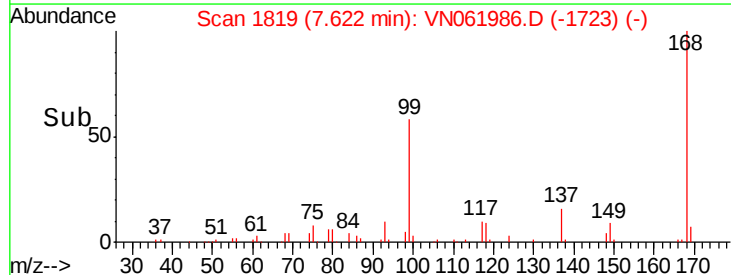
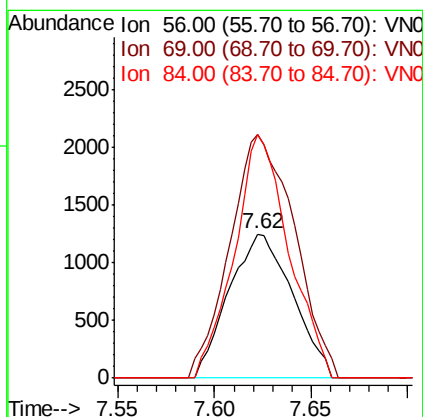
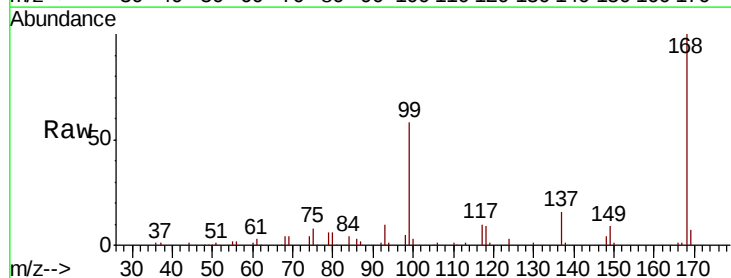
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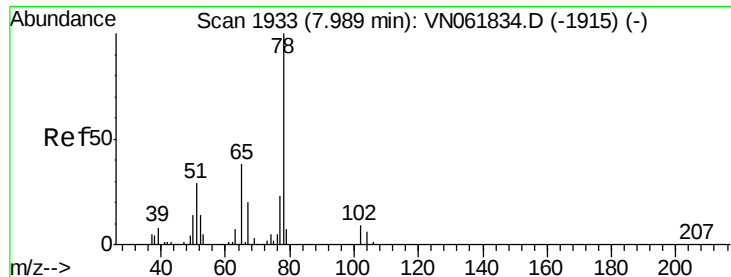
Tot Ion: 83 Resp: 1300
Ion Ratio Lower Upper
83 100
85 58.4 52.0 78.0



#31
Cyclohexane
Concen: 1.181 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

Tgt Ion: 56 Resp: 2846
Ion Ratio Lower Upper
56 100
69 169.1 27.7 41.5#
84 169.1 79.1 118.7#

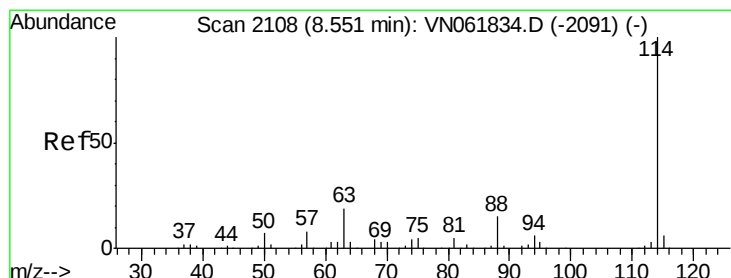
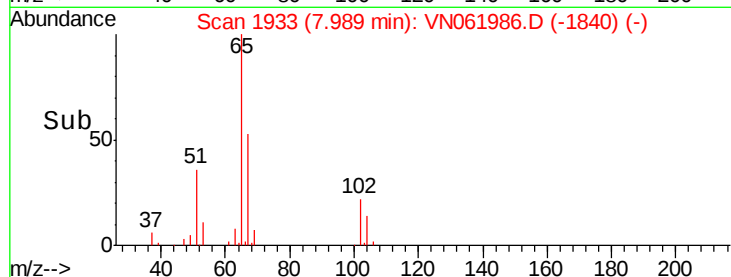
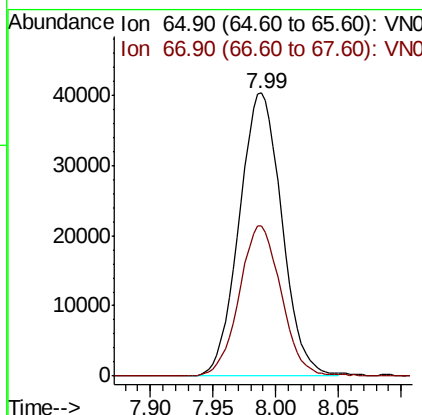
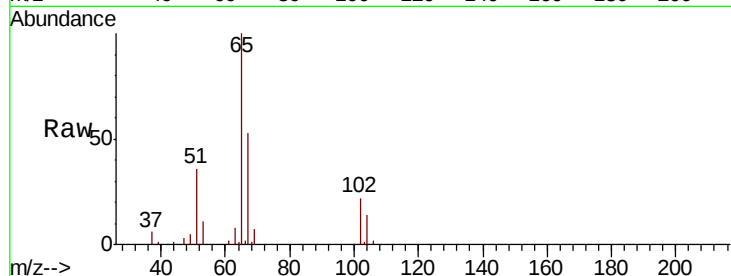




#33
 1,2-Dichloroethane-d4
 Concen: 52.134 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061986.D
 Acq: 20 Jun 2020 8:52

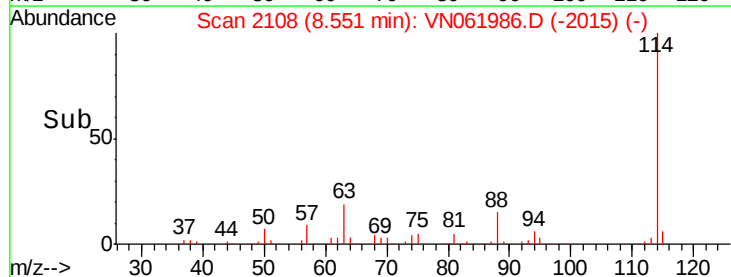
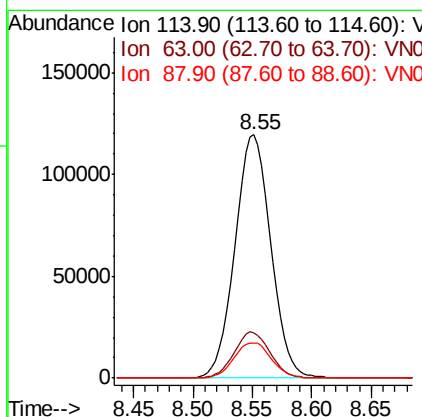
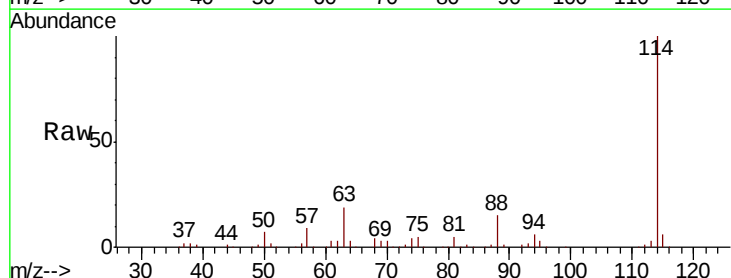
Instrument :
 MSVOA_N
 ClientSampleId :
 REDUP06-20200616

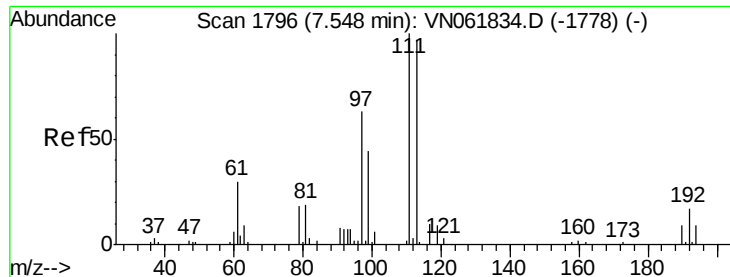
Tot Ion: 65 Resp: 95307
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061986.D
 Acq: 20 Jun 2020 8:52

Tgt Ion: 114 Resp: 249984
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 37.6
 88 14.6 0.0 31.0

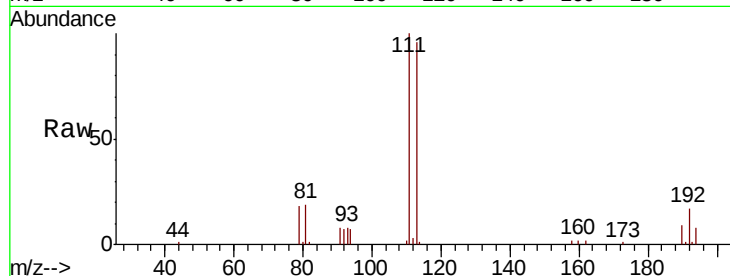




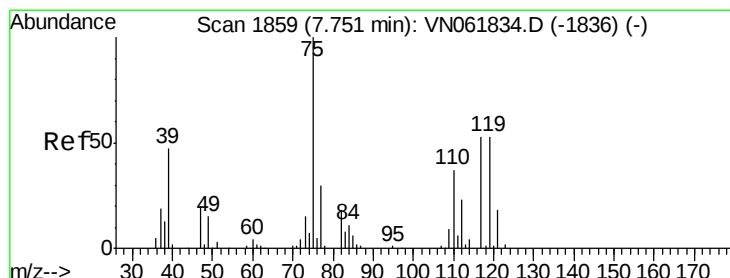
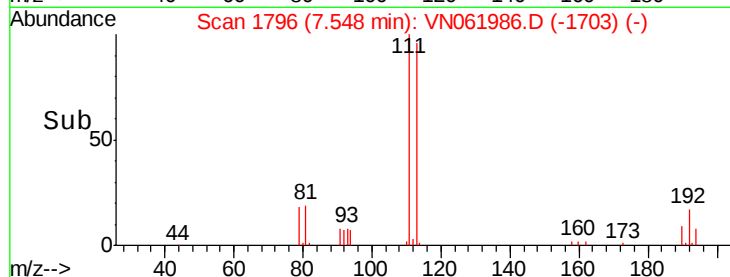
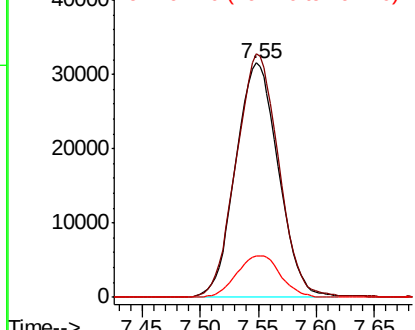
#35
Dibromofluoromethane
Concen: 50.766 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

Instrument :
MSVOA_N
ClientSampleId :
REDUP06-20200616

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.7	125.5
192	18.0	13.9	20.9

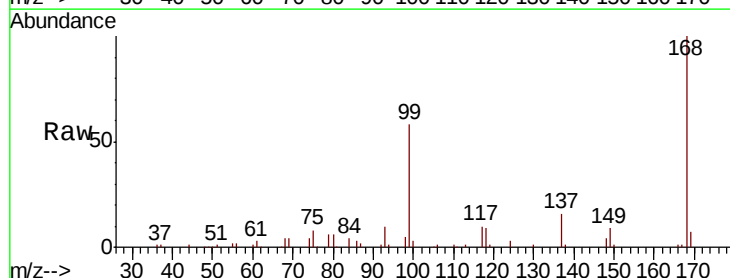


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

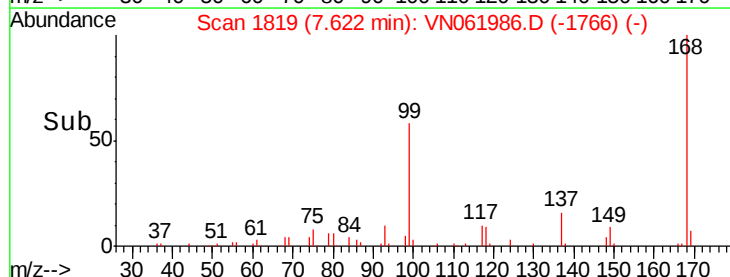
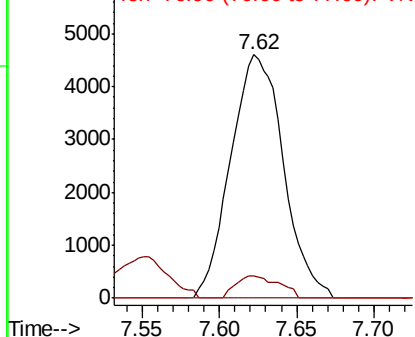


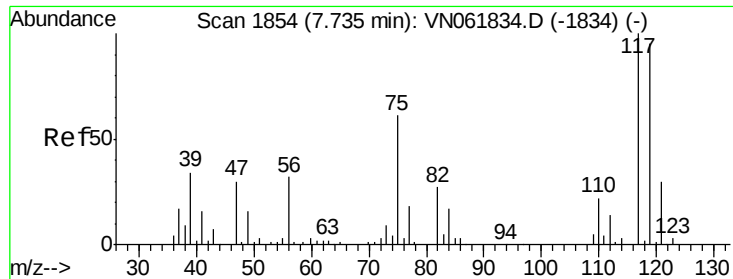
#36
1,1-Dichloropropene
Concen: 4.790 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.13 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.4	18.2	54.6#
77	0.0	24.2	36.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 0.205 ug/l

RT: 7.73 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

REDUP06-20200616

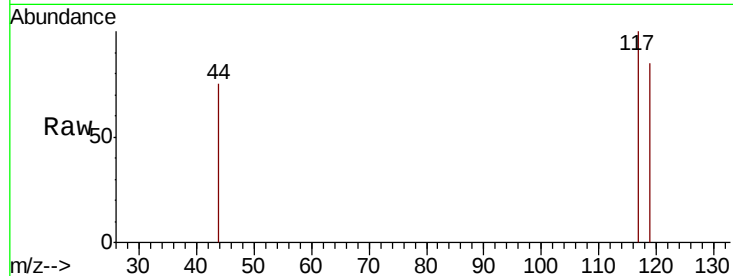
Tot Ion:117 Resp: 464

Ion Ratio Lower Upper

117 100

119 84.9 75.8 113.6

121 0.0 23.8 35.6#



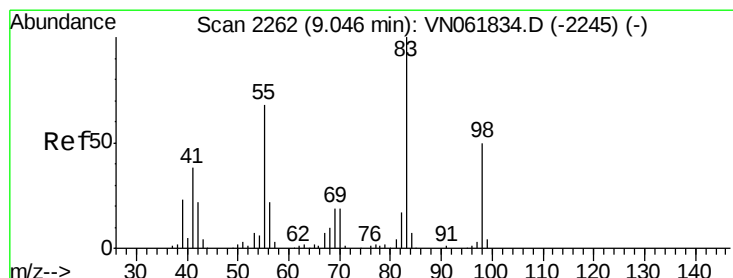
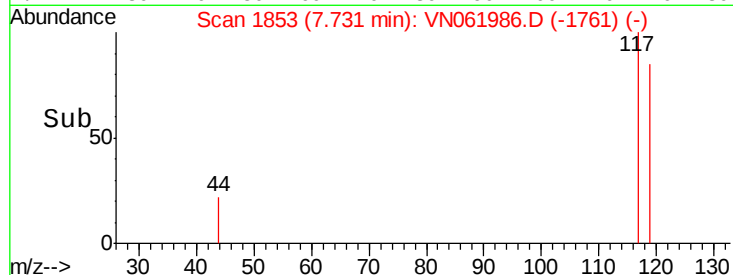
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

7.73

Time-->



#39

Methylcyclohexane

Concen: 5.357 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.25 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

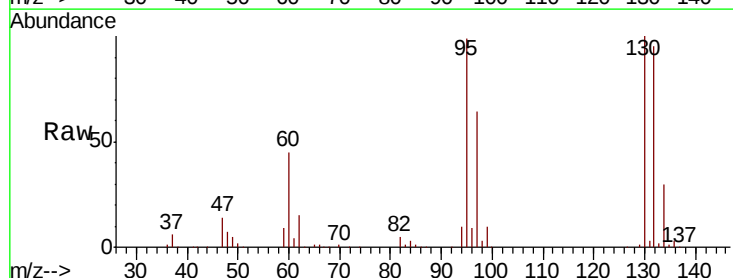
Tgt Ion: 83 Resp: 13153

Ion Ratio Lower Upper

83 100

55 0.0 54.2 81.4#

98 209.5 39.8 59.6#



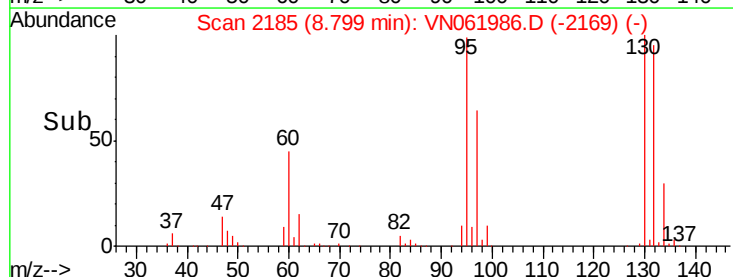
Abundance Ion 83.00 (82.70 to 83.70): V

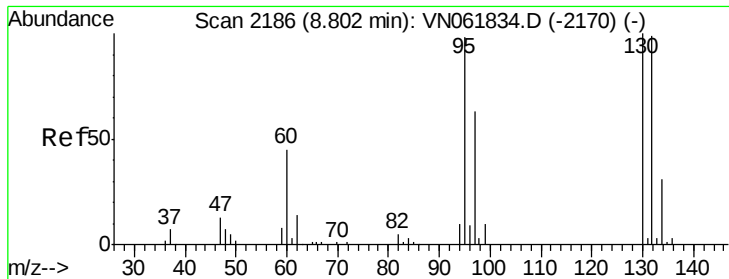
Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V

8.80

Time-->





#44

Trichloroethene

Concen: 604.310 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

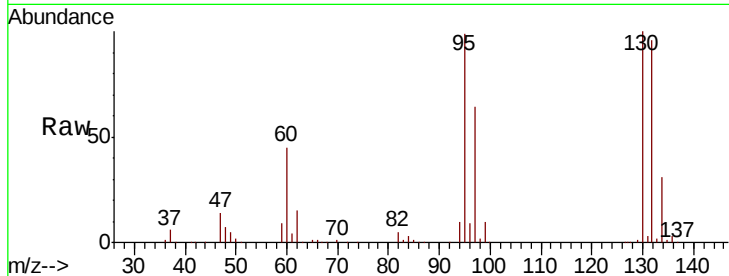
REDUP06-20200616

Tot Ion:130 Resp: 1098490

Ion Ratio Lower Upper

130 100

95 98.9 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): VN061834.D (-2170) (-)

Ion 94.90 (94.60 to 95.60): VN061834.D (-2170) (-)

8.80

600000

500000

400000

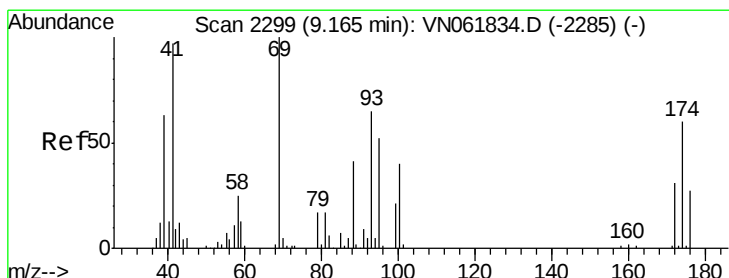
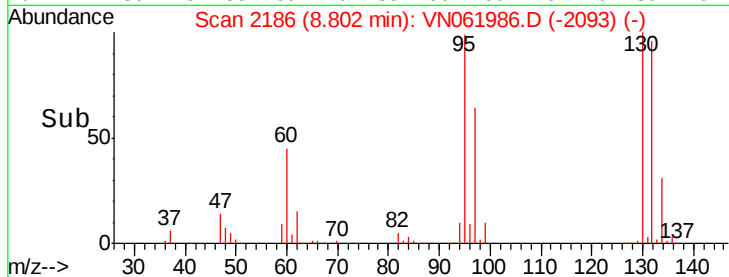
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 12.480 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

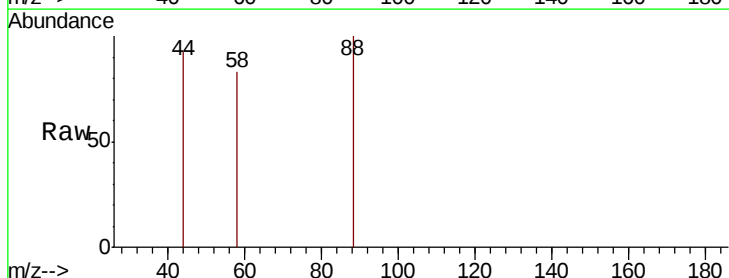
Tgt Ion: 88 Resp: 391

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

58 84.7 49.8 74.6#



Abundance Ion 88.00 (87.70 to 88.70): VN061834.D (-2285) (-)

Ion 43.00 (42.70 to 43.70): VN061834.D (-2285) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2285) (-)

9.17

400

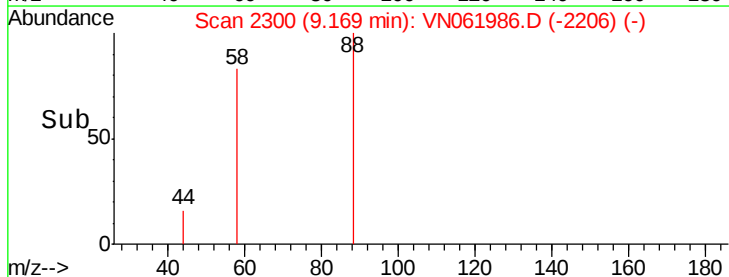
300

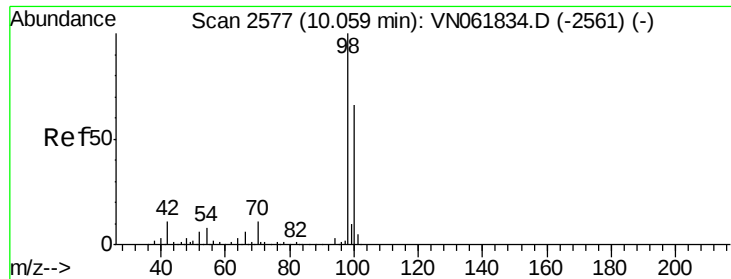
200

100

0

Time-->





#50

Toluene-d8

Concen: 50.798 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

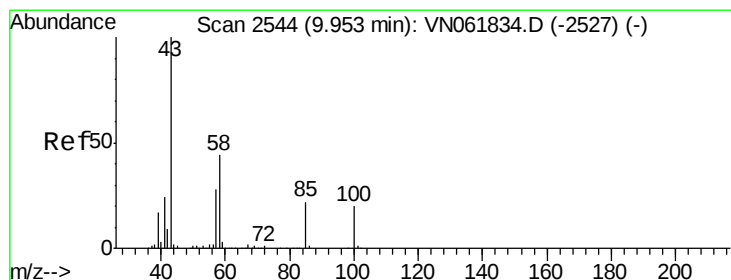
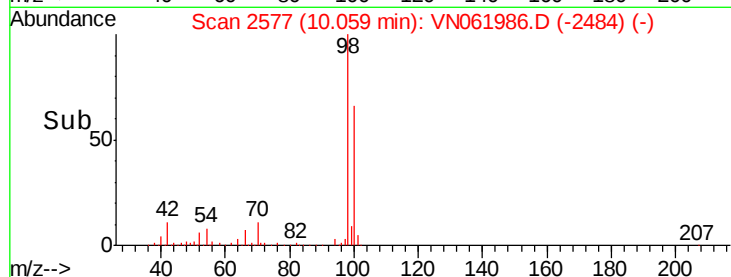
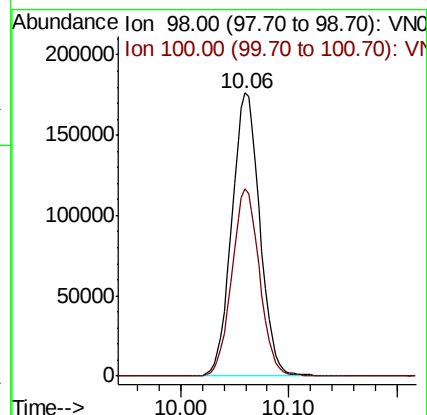
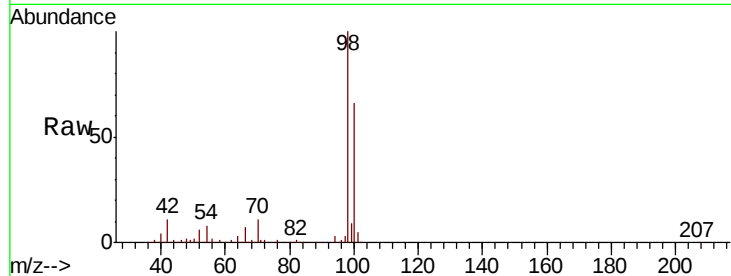
REDUP06-20200616

Tot Ion: 98 Resp: 319385

Ion Ratio Lower Upper

98 100

100 65.4 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 0.682 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN061986.D

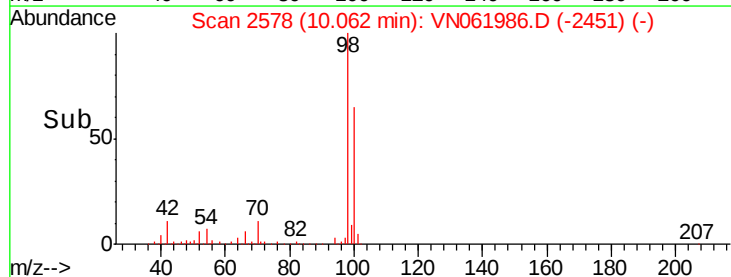
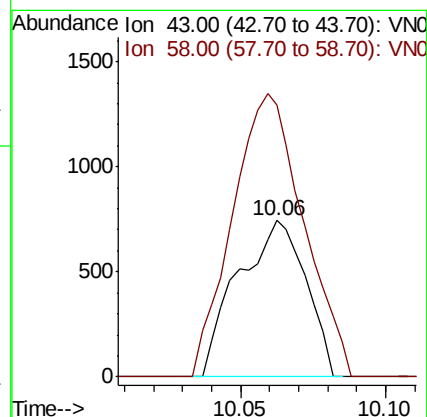
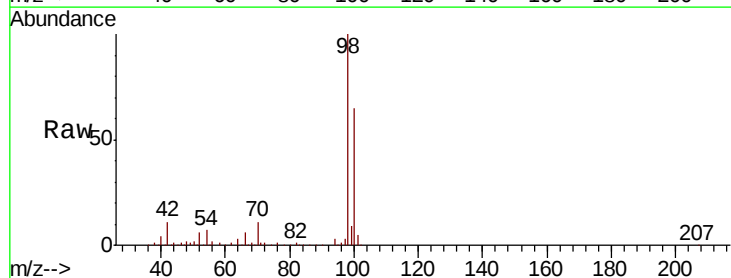
Acq: 20 Jun 2020 8:52

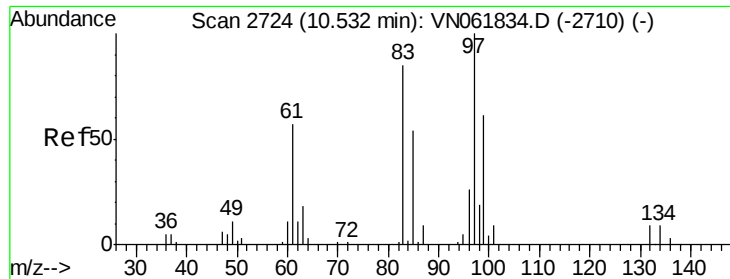
Tgt Ion: 43 Resp: 1209

Ion Ratio Lower Upper

43 100

58 189.3 34.6 52.0#





#55

1,1,2-Trichloroethane

Concen: 0.361 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

REDUP06-20200616

Tot Ion: 97 Resp: 616

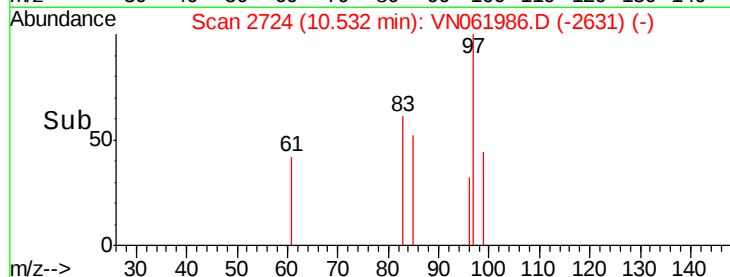
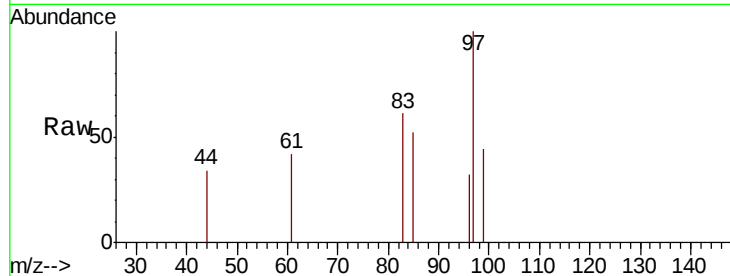
Ion Ratio Lower Upper

97 100

83 60.6 67.7 101.5#

85 51.6 43.4 65.0

99 44.5 48.8 73.2#

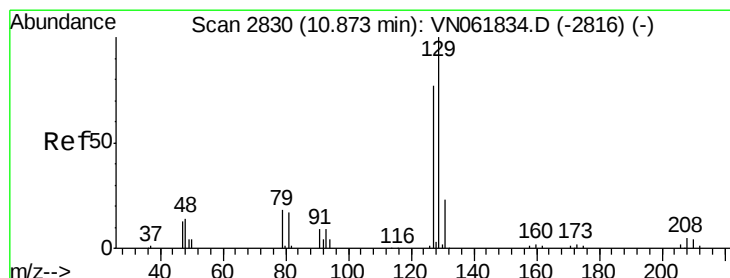
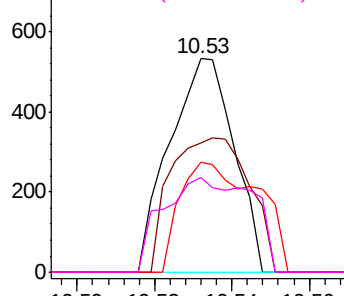


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#60

Dibromochloromethane

Concen: 4.517 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061986.D

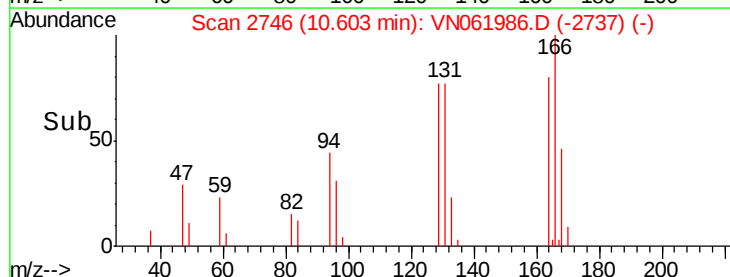
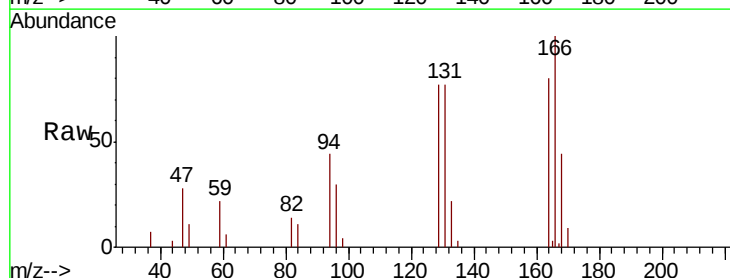
Acq: 20 Jun 2020 8:52

Tgt Ion: 129 Resp: 8602

Ion Ratio Lower Upper

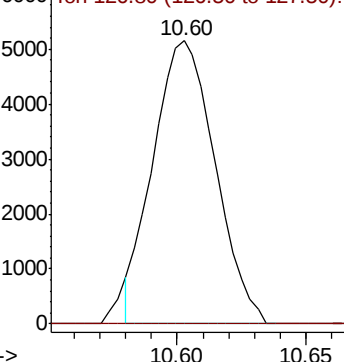
129 100

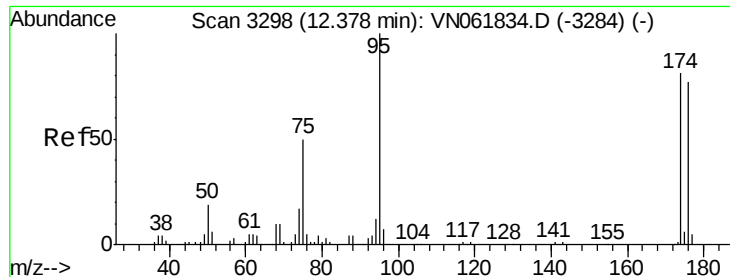
127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

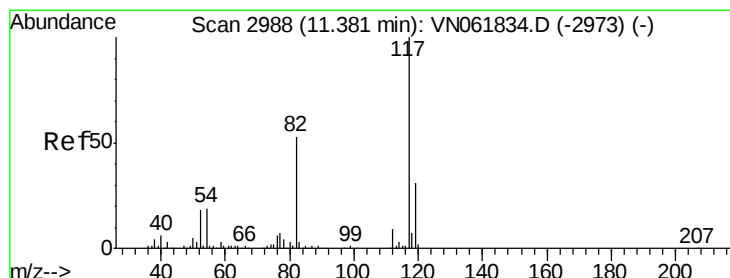
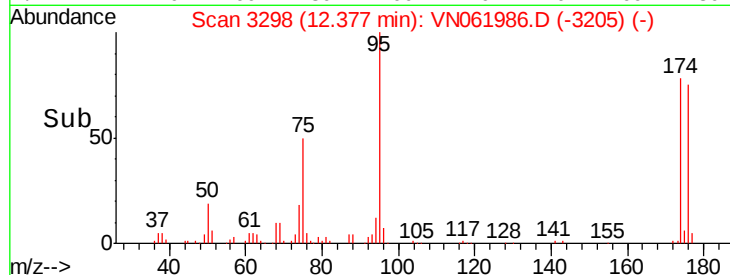
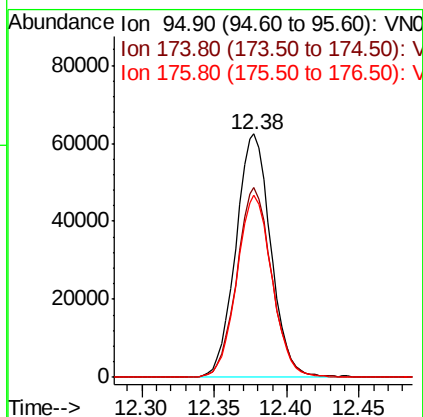
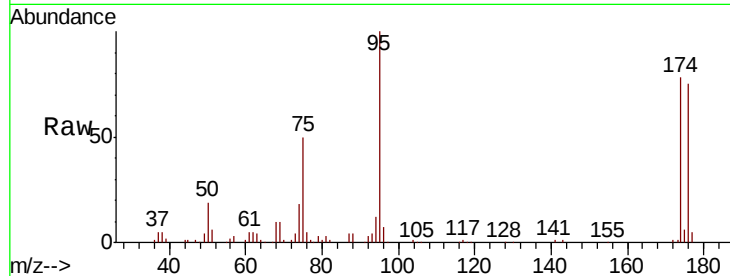




#62
4-Bromofluorobenzene
Concen: 48.530 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

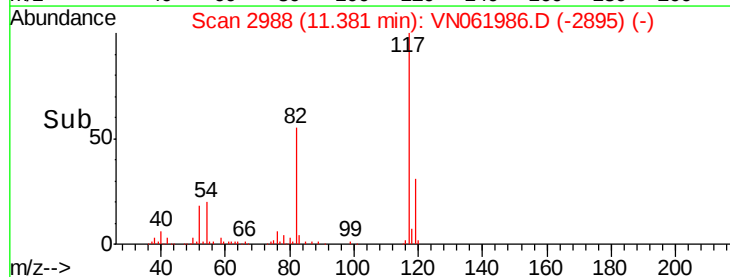
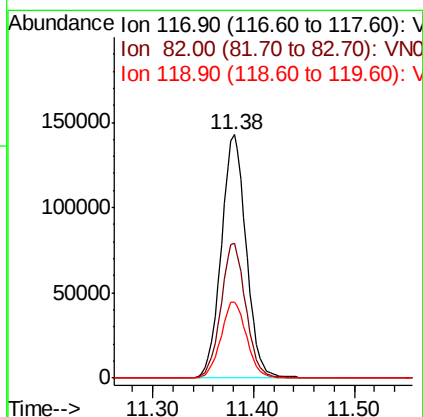
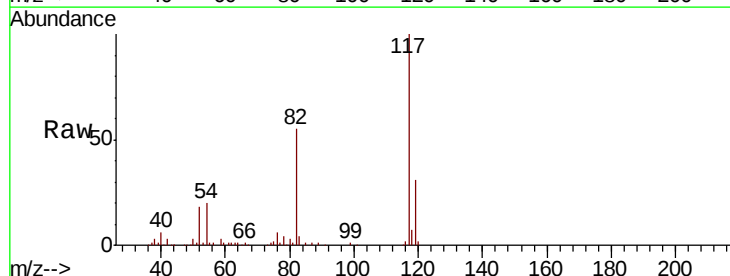
Instrument :
MSVOA_N
ClientSampleId :
REDUP06-20200616

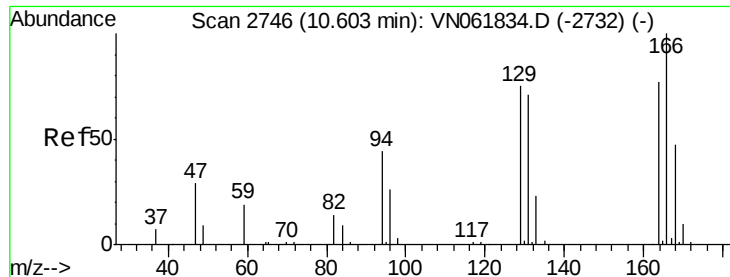
Tot Ion: 95 Resp: 104662
Ion Ratio Lower Upper
95 100
174 78.3 0.0 158.6
176 75.6 0.0 152.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061986.D
Acq: 20 Jun 2020 8:52

Tgt Ion: 117 Resp: 246794
Ion Ratio Lower Upper
117 100
82 55.1 42.6 64.0
119 31.3 24.7 37.1





#64

Tetrachloroethene

Concen: 5.896 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.00 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

REDUP06-20200616

Tot Ion:164 Resp: 9274

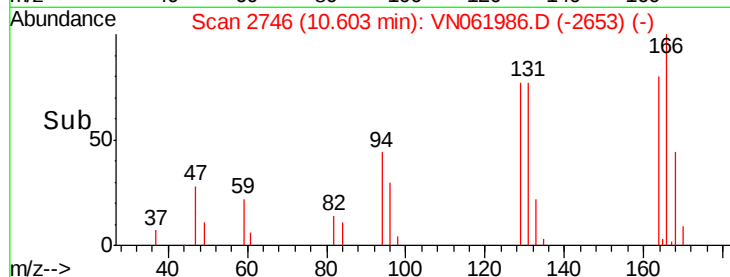
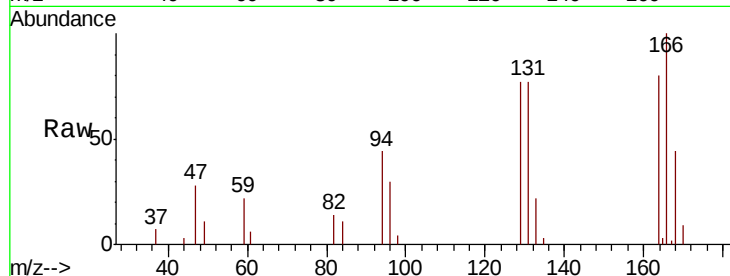
Ion Ratio Lower Upper

164 100

166 125.2 103.5 155.3

129 95.9 77.5 116.3

131 96.6 73.8 110.8

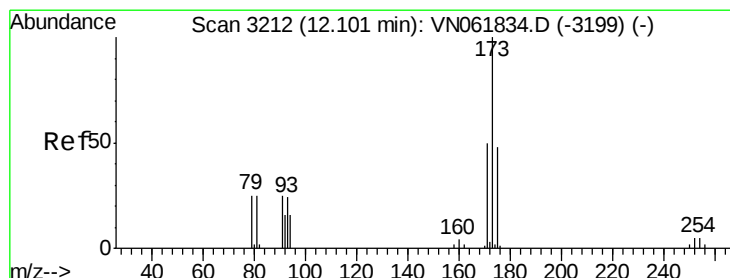
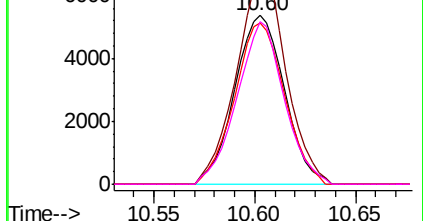


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.686 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

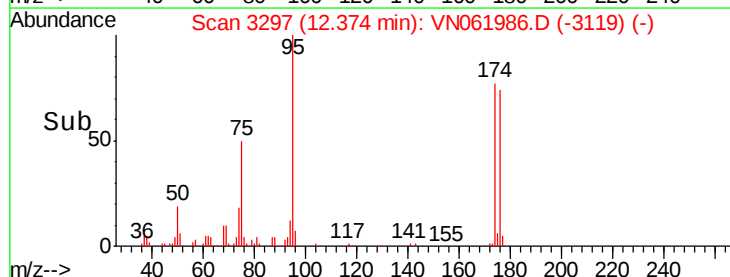
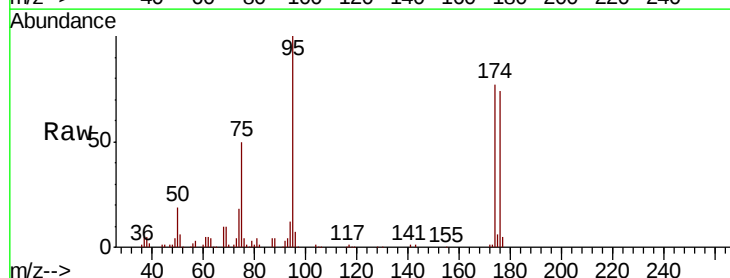
Tgt Ion:173 Resp: 908

Ion Ratio Lower Upper

173 100

175 579.7 23.9 71.7#

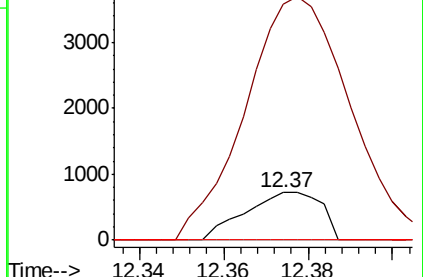
254 0.0 0.0 0.0

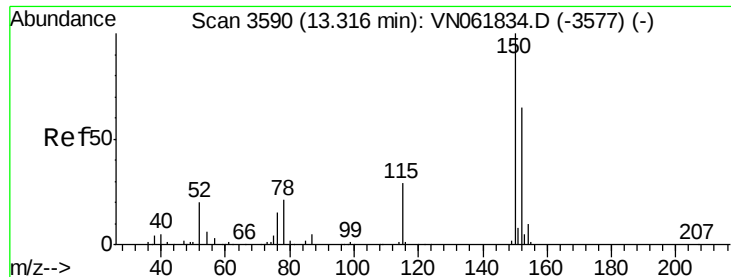


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

REDUP06-20200616

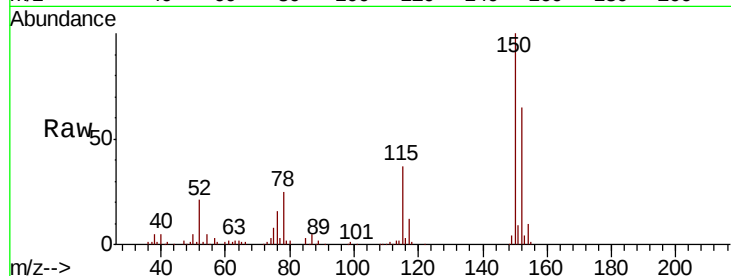
Tot Ion:152 Resp: 93185

Ion Ratio Lower Upper

152 100

115 58.7 29.1 87.3

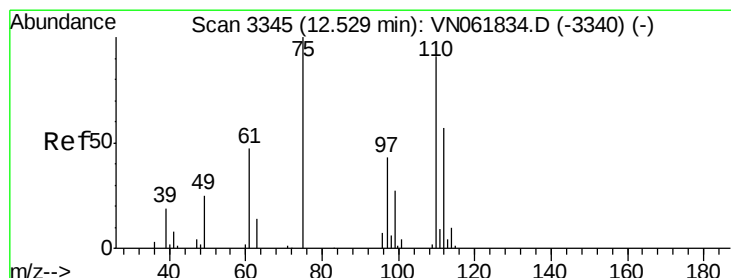
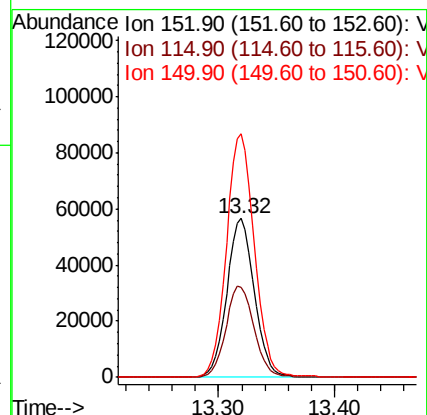
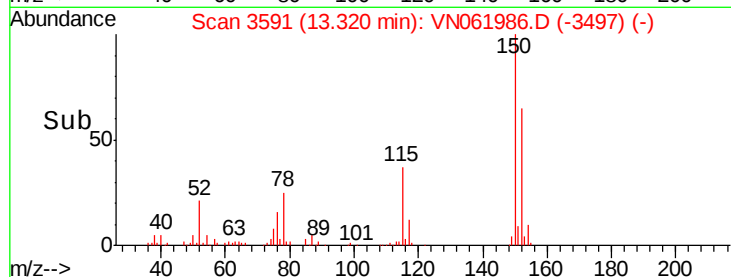
150 156.7 0.0 347.6



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: 28.967 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061986.D

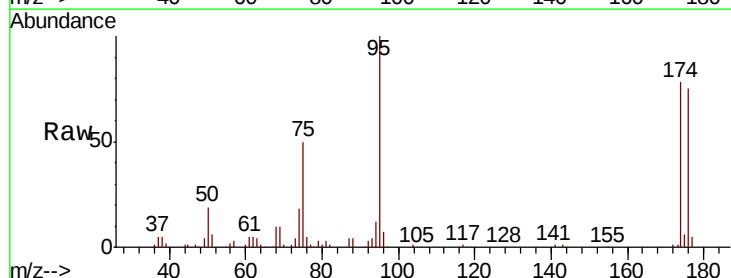
Acq: 20 Jun 2020 8:52

Tgt Ion: 75 Resp: 52994

Ion Ratio Lower Upper

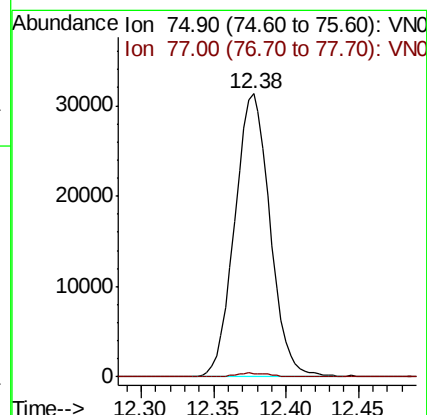
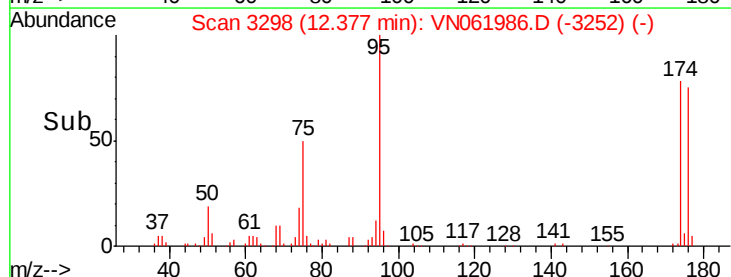
75 100

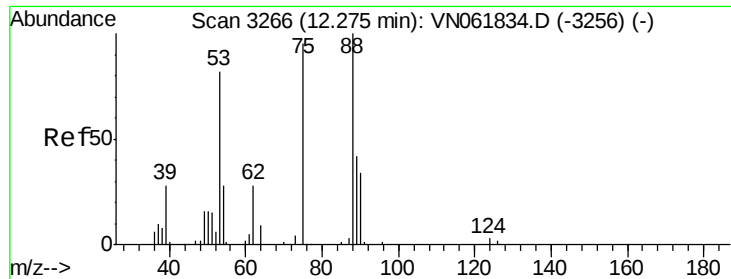
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 79.005 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061986.D

Acq: 20 Jun 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

REDUP06-20200616

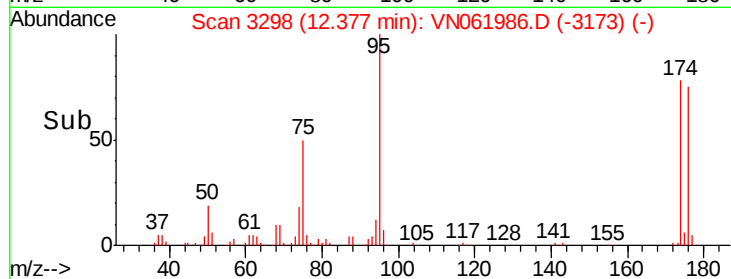
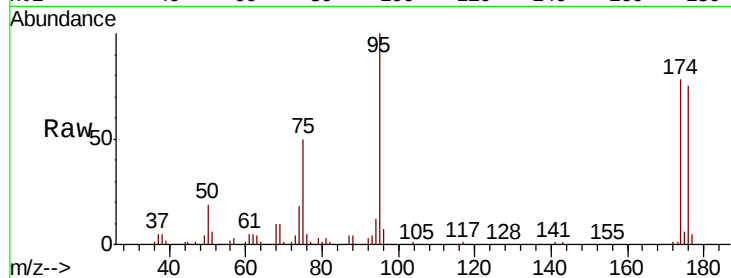
Tot Ion: 75 Resp: 52994

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

