

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061850.D
 Acq On : 17 Jun 2020 15:51
 Operator : JC/MD
 Sample : L2989-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D3-20200610

Quant Time: Jun 18 03:54:48 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	139844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	255308	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	244001	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	90198	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	91188	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
35) Dibromofluoromethane	7.55	113	80537	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
50) Toluene-d8	10.06	98	318433	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
62) 4-Bromofluorobenzene	12.38	95	102262	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	

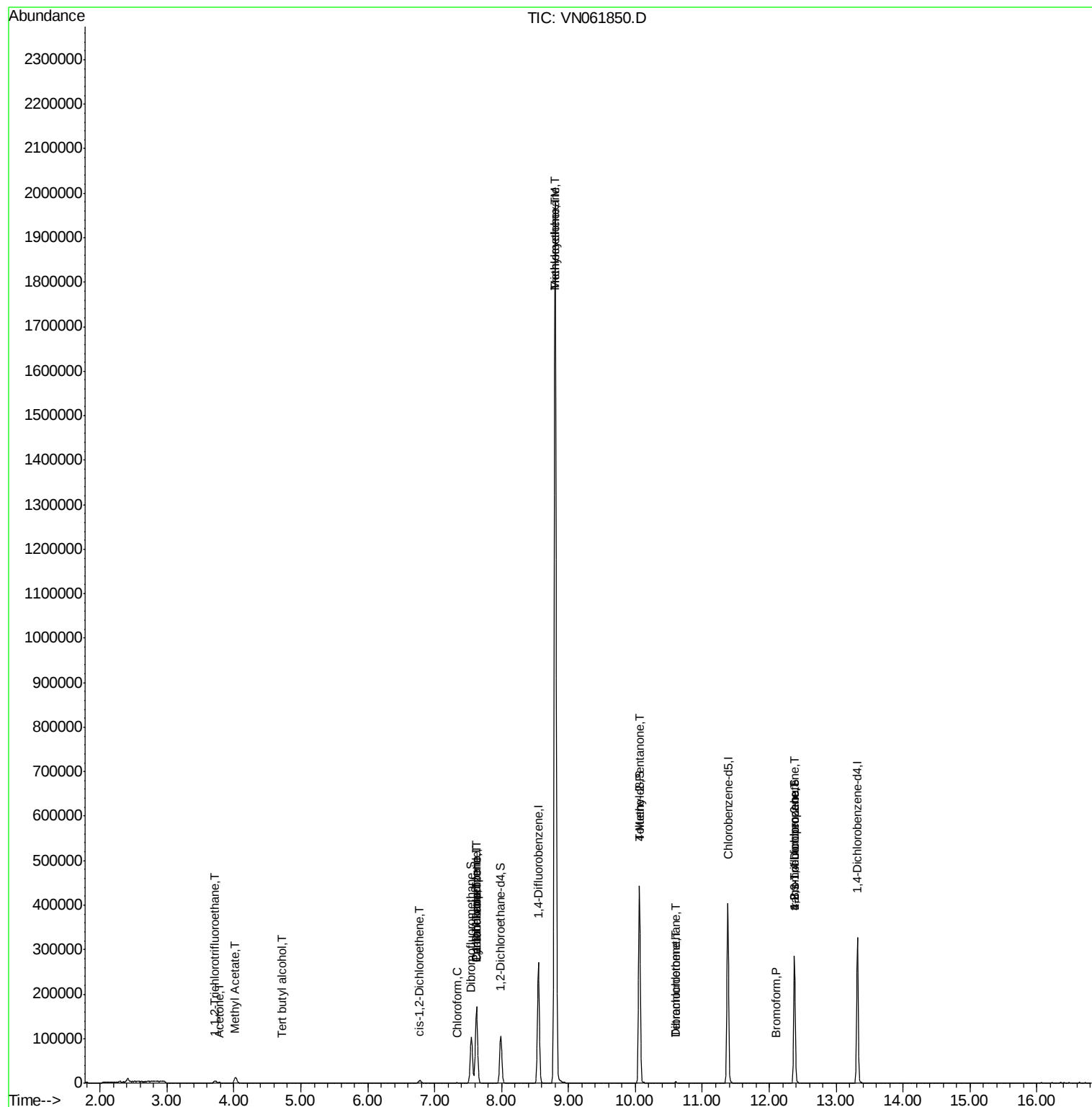
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.72	101	3417	2.410	ug/l	94
11) Tert butyl alcohol	4.72	59	60	0.231	ug/l #	74
16) Acetone	3.78	43	2060	3.718	ug/l	97
18) Methyl Acetate	4.02	43	4720	2.959	ug/l #	46
27) cis-1,2-Dichloroethene	6.78	96	949	0.504	ug/l	94
30) Chloroform	7.32	83	1299	0.431	ug/l #	73
31) Cyclohexane	7.62	56	1585	0.641	ug/l #	19
36) 1,1-Dichloropropene	7.62	75	11011	4.728	ug/l #	48
38) Carbon Tetrachloride	7.63	117	13982	6.063	ug/l #	15
39) Methylcyclohexane	8.80	83	8624	3.439	ug/l #	1
44) Trichloroethene	8.80	130	744879	401.234	ug/l	98
51) 4-Methyl-2-Pentanone	10.06	43	1114	0.615	ug/l #	1
60) Dibromochloromethane	10.60	129	651	0.335	ug/l #	11
64) Tetrachloroethene	10.60	164	654	0.421	ug/l	93
71) Bromoform	12.10	173	472	0.360	ug/l #	29
76) 1,2,3-Trichloropropane	12.38	75	50988	28.794	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	50988	78.532	ug/l #	14

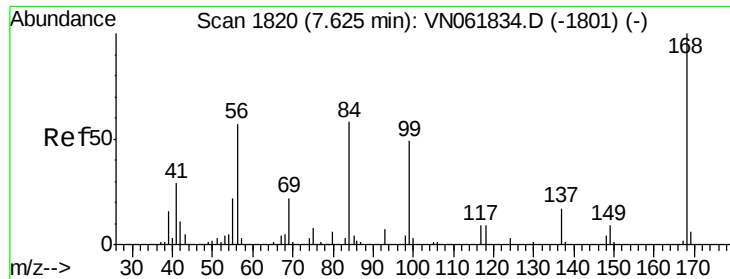
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

Instrument :

MSVOA_N

ClientSampleId :

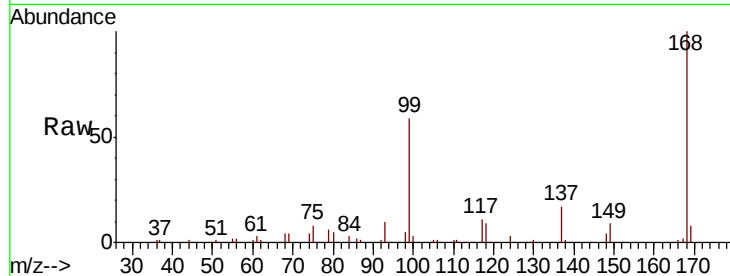
RE103D3-20200610

Tot Ion:168 Resp: 139844

Ion Ratio Lower Upper

168 100

99 59.4 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

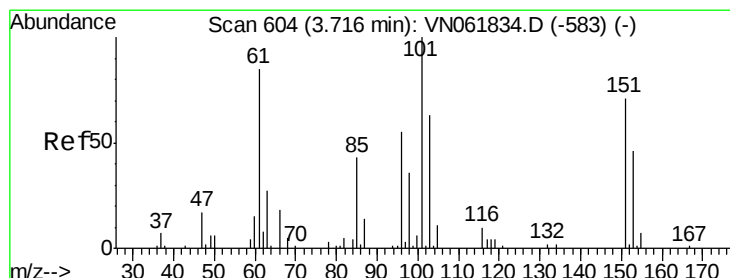
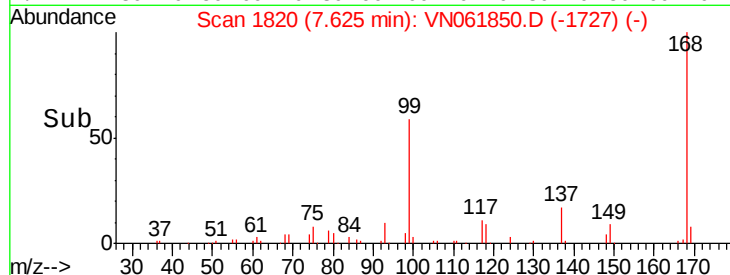
0

7.50

7.60

7.70

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.410 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.01 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

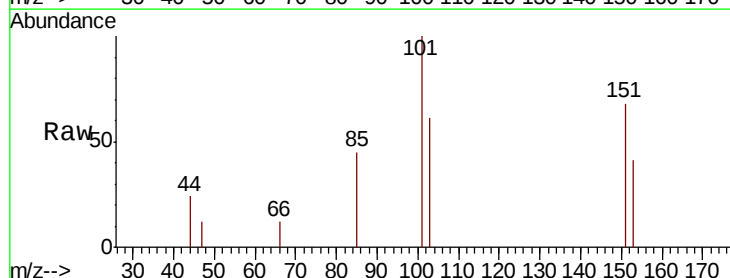
Tgt Ion:101 Resp: 3417

Ion Ratio Lower Upper

101 100

85 49.6 35.0 52.6

151 77.4 59.2 88.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

1500

1000

500

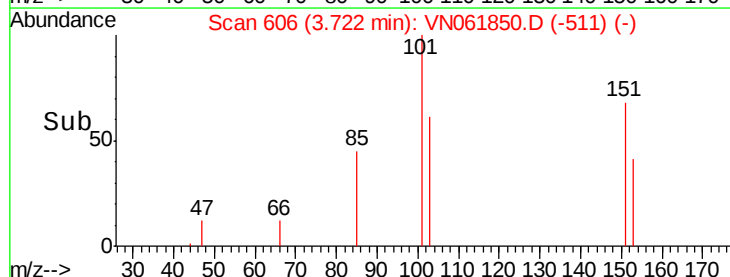
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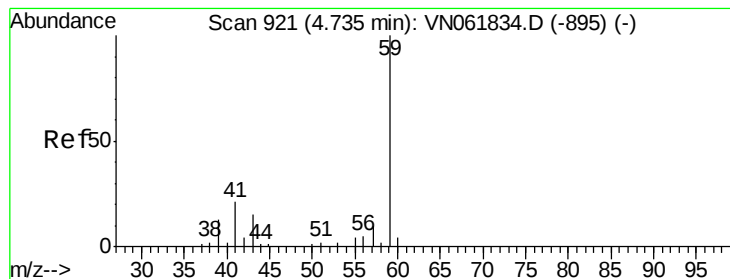
3.65

3.70

3.75

Time-->



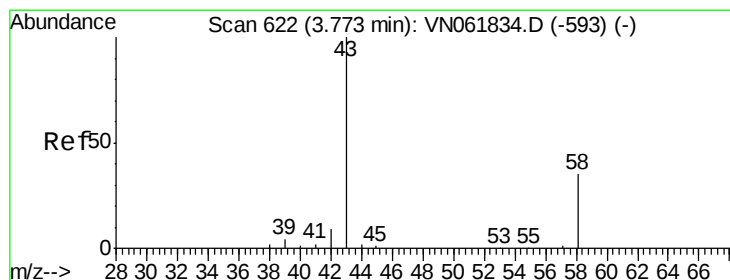
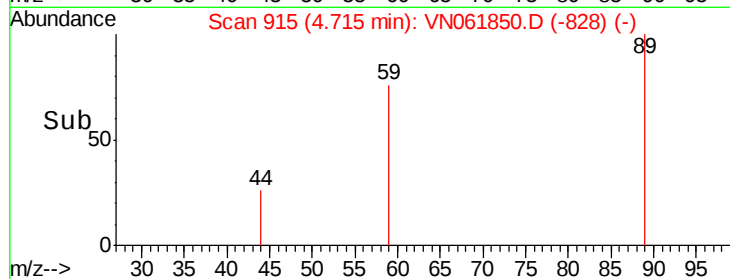
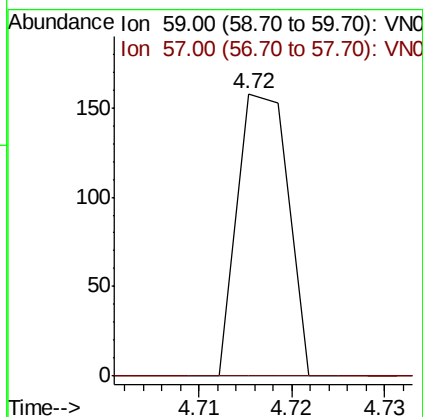
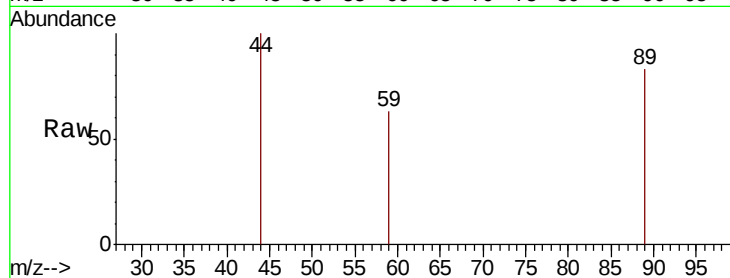


#11

Tert butyl alcohol
 Concen: 0.231 ug/l
 RT: 4.72 min Scan# 915
 Delta R.T. -0.02 min
 Lab File: VN061850.D
 Acq: 17 Jun 2020 15:51

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D3-20200610

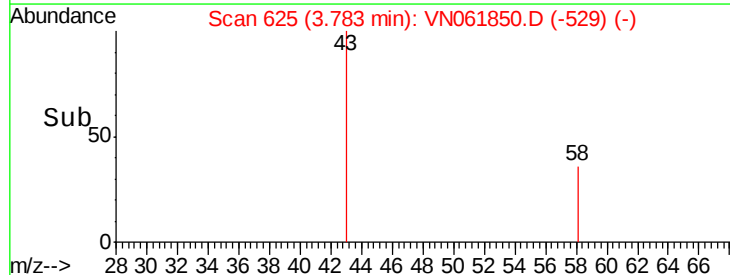
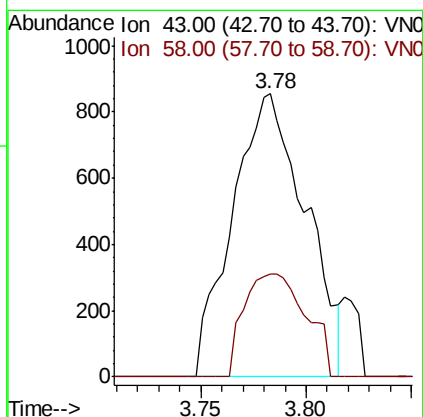
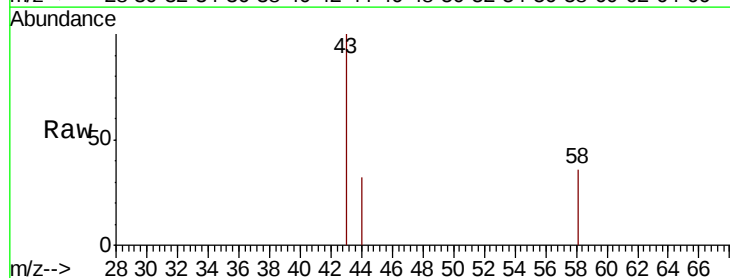
Tot Ion: 59 Resp: 60
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.7 11.5#

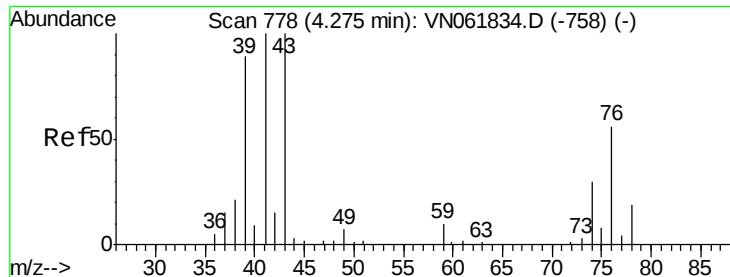


#16

Acetone
 Concen: 3.718 ug/l
 RT: 3.78 min Scan# 625
 Delta R.T. 0.01 min
 Lab File: VN061850.D
 Acq: 17 Jun 2020 15:51

Tgt Ion: 43 Resp: 2060
 Ion Ratio Lower Upper
 43 100
 58 36.3 27.8 41.8

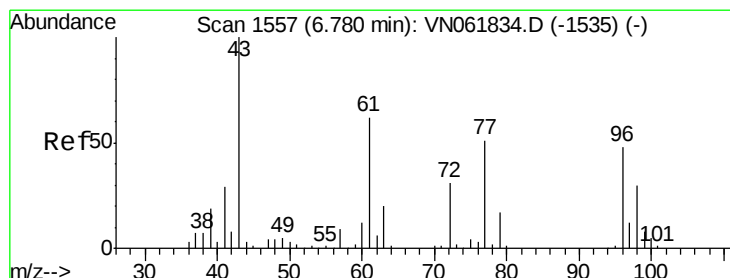
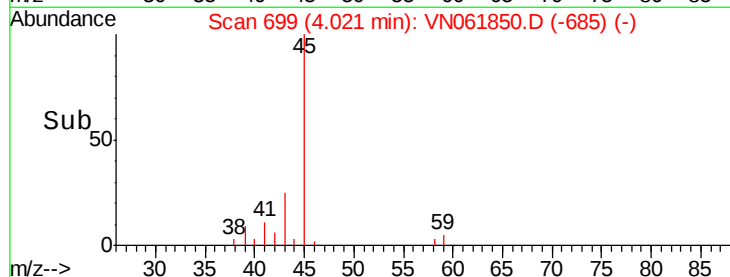
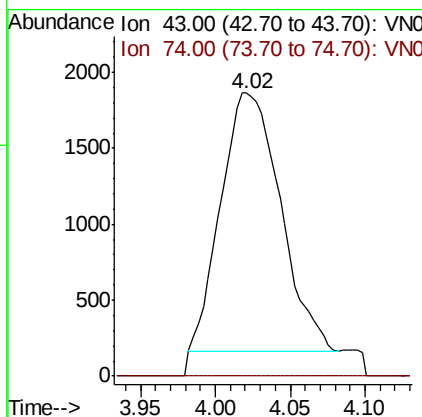
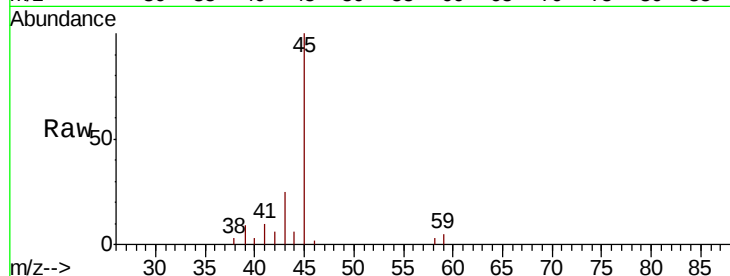




#18
Methyl Acetate
Concen: 2.959 ug/l
RT: 4.02 min Scan# 699
Delta R.T. -0.25 min
Lab File: VN061850.D
Acq: 17 Jun 2020 15:51

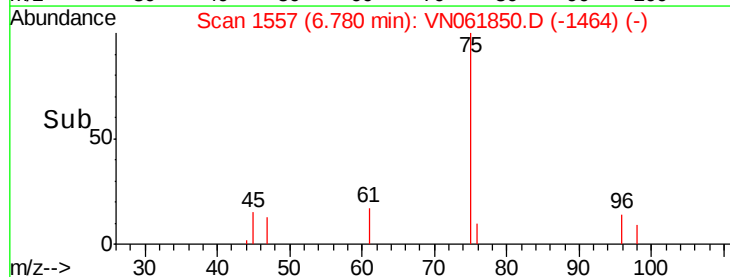
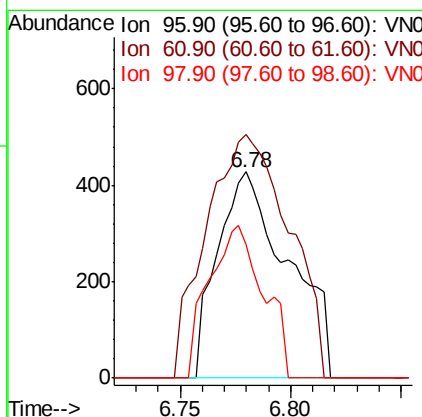
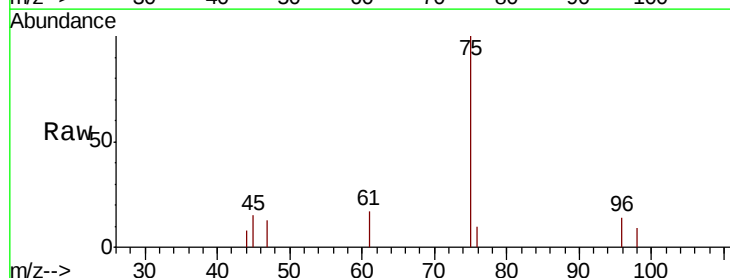
Instrument :
MSVOA_N
ClientSampleId :
RE103D3-20200610

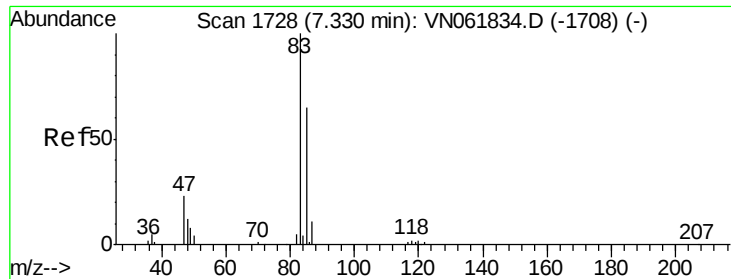
Tot Ion: 43 Resp: 4720
Ion Ratio Lower Upper
43 100
74 0.0 23.0 34.4#



#27
cis-1,2-Dichloroethene
Concen: 0.504 ug/l
RT: 6.78 min Scan# 1557
Delta R.T. -0.00 min
Lab File: VN061850.D
Acq: 17 Jun 2020 15:51

Tgt Ion: 96 Resp: 949
Ion Ratio Lower Upper
96 100
61 138.6 0.0 265.6
98 57.2 0.0 128.2

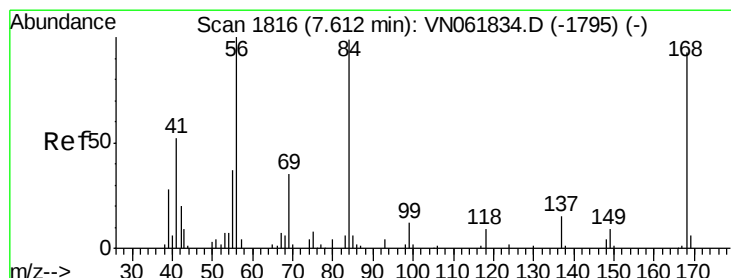
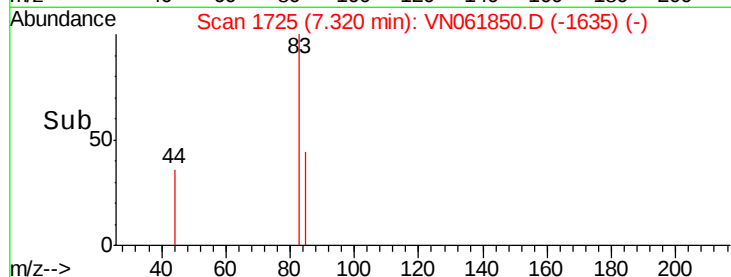
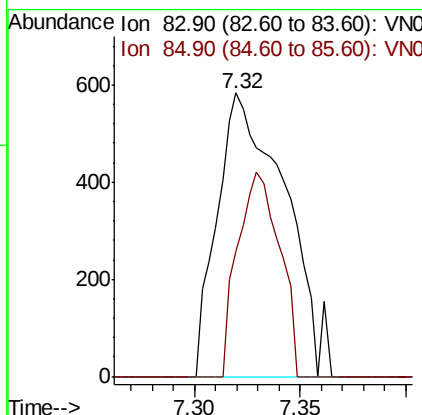
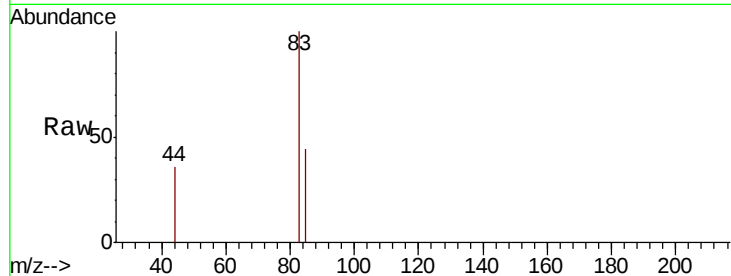




#30
Chloroform
Concen: 0.431 ug/l
RT: 7.32 min Scan# 1725
Delta R.T. -0.01 min
Lab File: VN061850.D
Acq: 17 Jun 2020 15:51

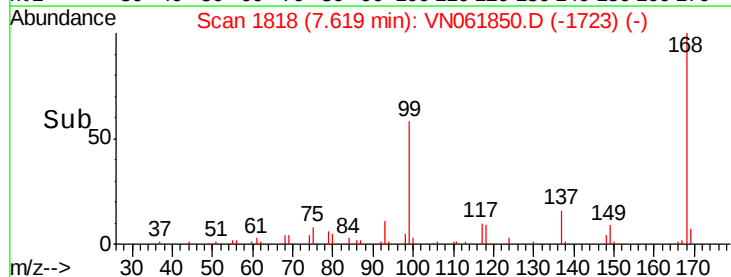
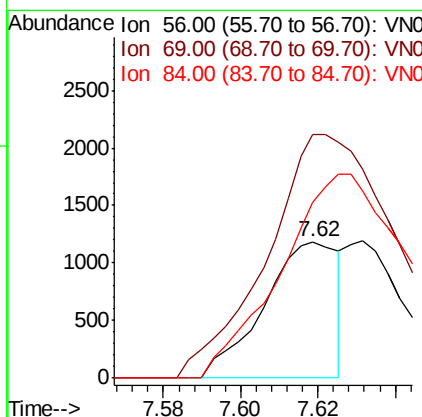
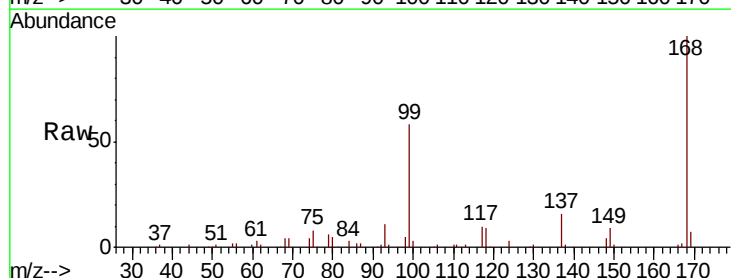
Instrument :
MSVOA_N
ClientSampleId :
RE103D3-20200610

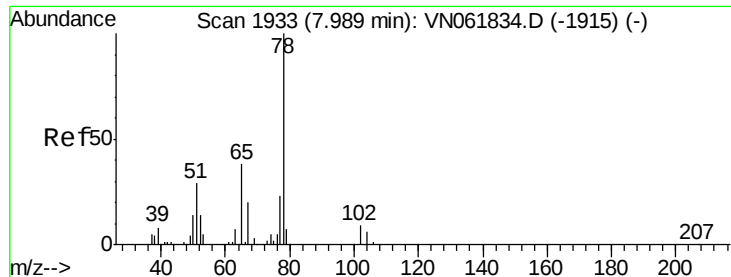
Tot Ion: 83 Resp: 1299
Ion Ratio Lower Upper
83 100
85 43.9 52.0 78.0#



#31
Cyclohexane
Concen: 0.641 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN061850.D
Acq: 17 Jun 2020 15:51

Tgt Ion: 56 Resp: 1585
Ion Ratio Lower Upper
56 100
69 165.3 27.7 41.5#
84 128.7 79.1 118.7#





#33

1,2-Dichloroethane-d4

Concen: 48.620 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

Instrument :

MSVOA_N

ClientSampleId :

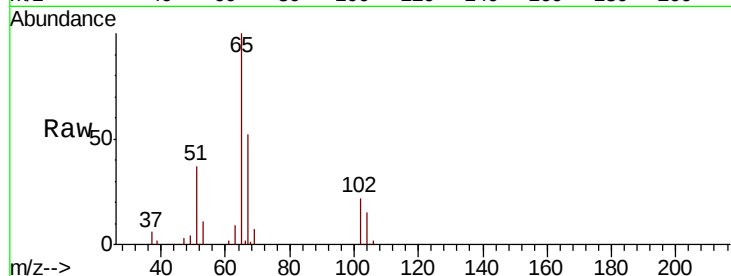
RE103D3-20200610

Tot Ion: 65 Resp: 91188

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN061834.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN061834.D (-1915) (-)

7.99

40000

30000

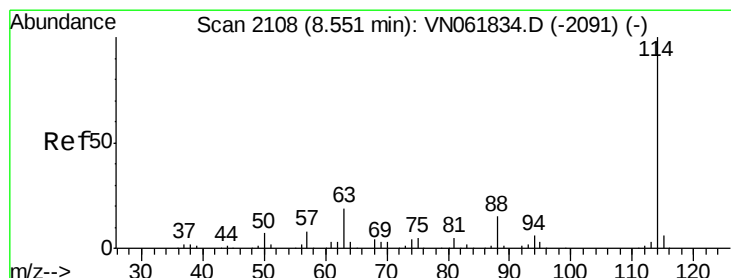
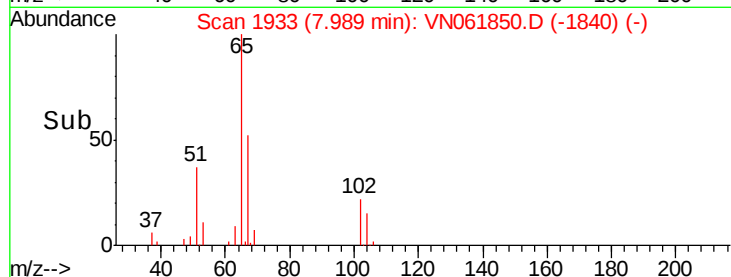
20000

10000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

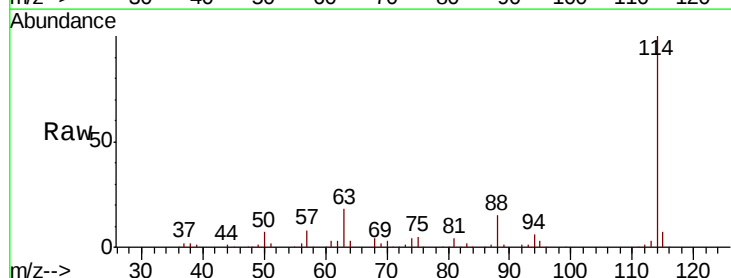
Tgt Ion: 114 Resp: 255308

Ion Ratio Lower Upper

114 100

63 18.1 0.0 37.6

88 14.9 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN061834.D (-2091) (-)

Ion 63.00 (62.70 to 63.70): VN061834.D (-2091) (-)

Ion 87.90 (87.60 to 88.60): VN061834.D (-2091) (-)

8.55

150000

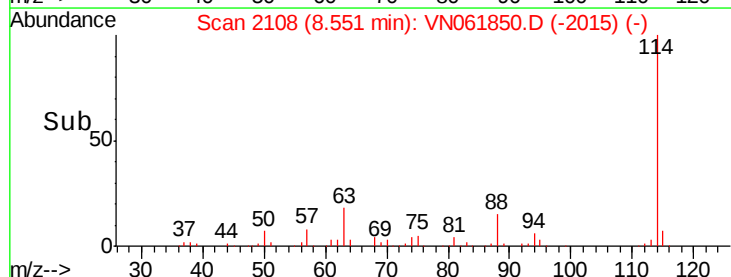
100000

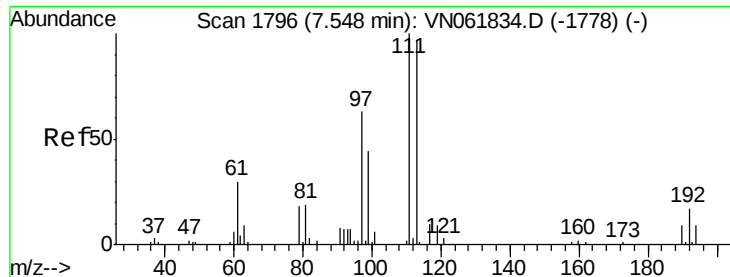
50000

0

8.50 8.60 8.70

Time-->

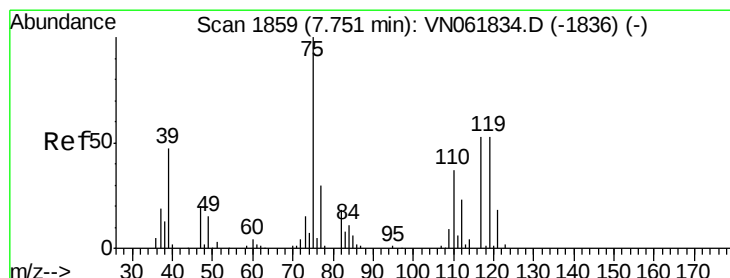
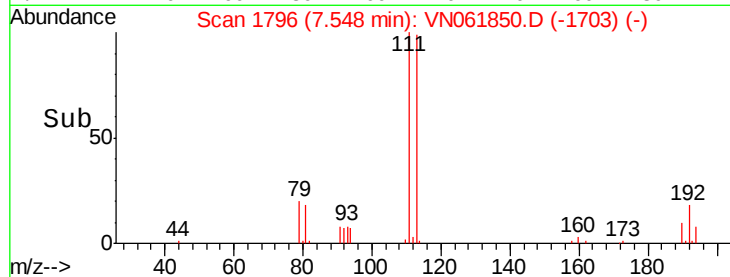
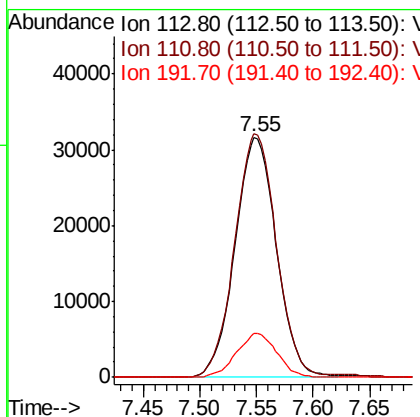
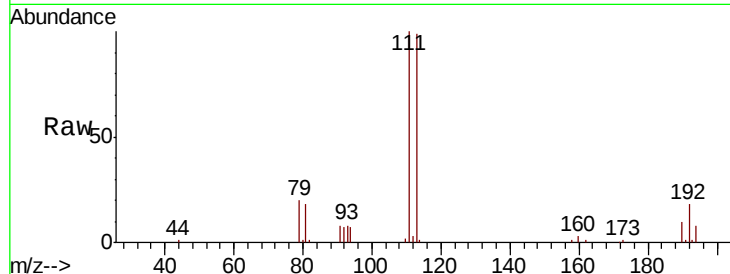




#35
 Dibromofluoromethane
 Concen: 49.309 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061850.D
 Acq: 17 Jun 2020 15:51

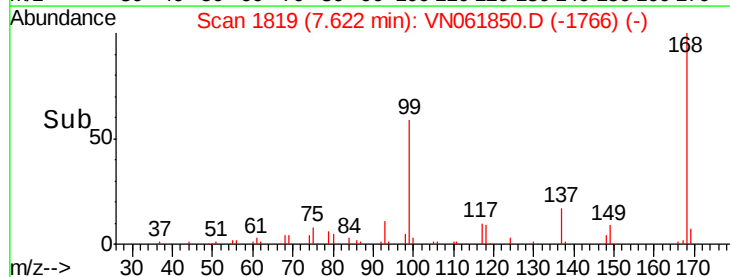
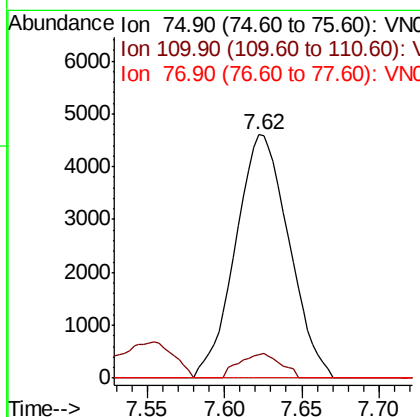
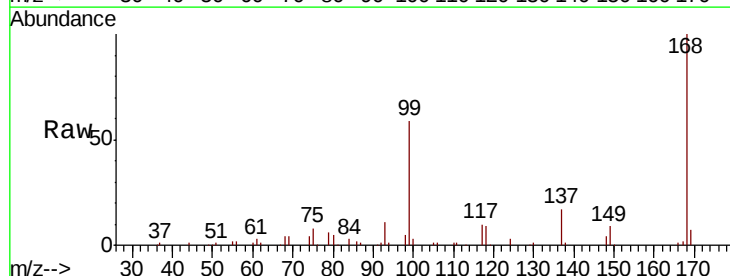
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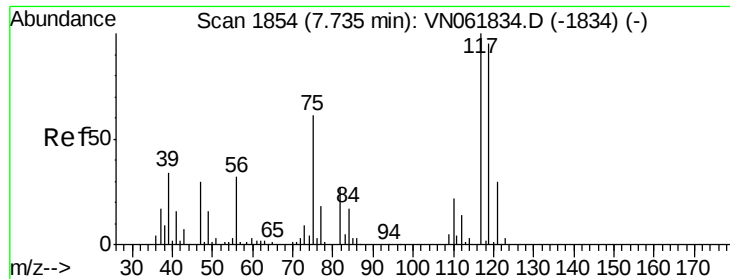
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.7	125.5
192	17.6	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.728 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061850.D
 Acq: 17 Jun 2020 15:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	18.2	54.6#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 6.063 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

Instrument :

MSVOA_N

ClientSampleId :

RE103D3-20200610

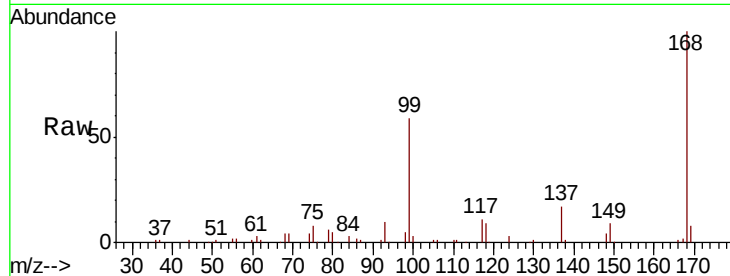
Tot Ion:117 Resp: 13982

Ion Ratio Lower Upper

117 100

119 3.7 75.8 113.6#

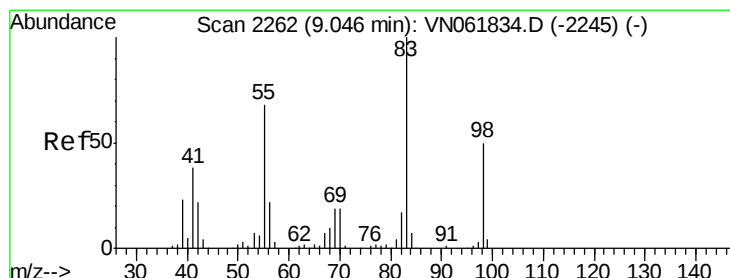
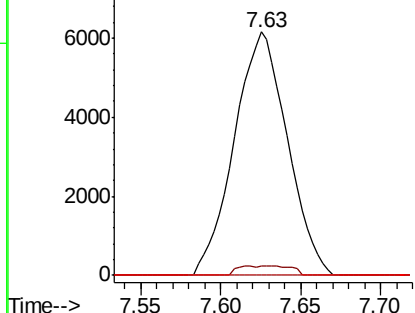
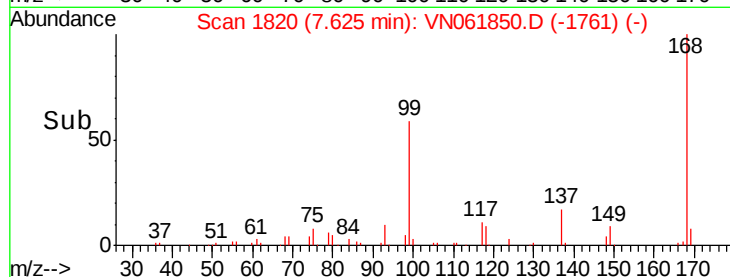
121 0.0 23.8 35.6#



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



#39

Methylcyclohexane

Concen: 3.439 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.25 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

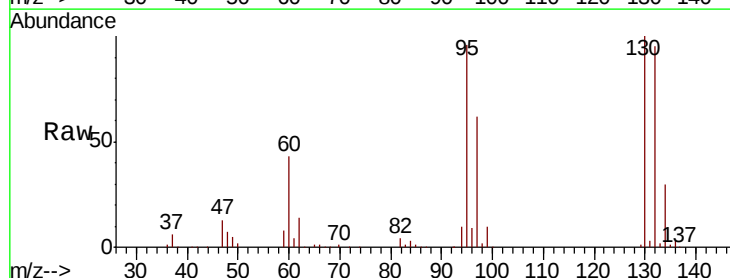
Tgt Ion: 83 Resp: 8624

Ion Ratio Lower Upper

83 100

55 0.0 54.2 81.4#

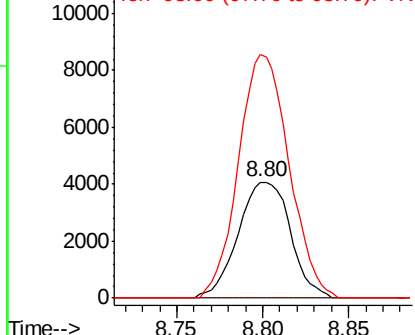
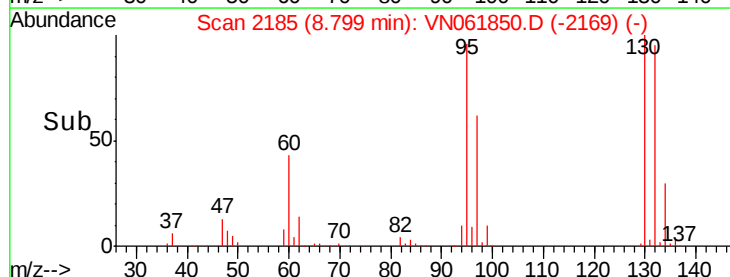
98 210.6 39.8 59.6#

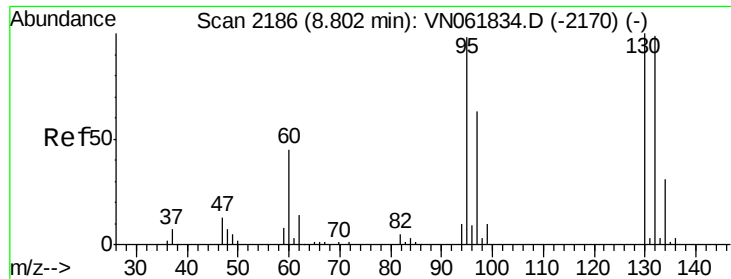


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

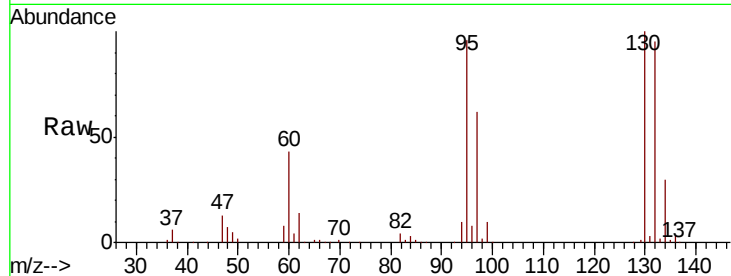




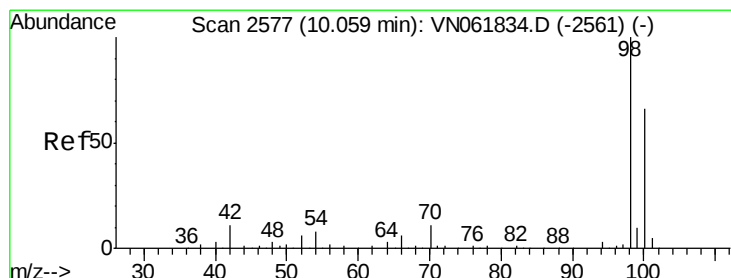
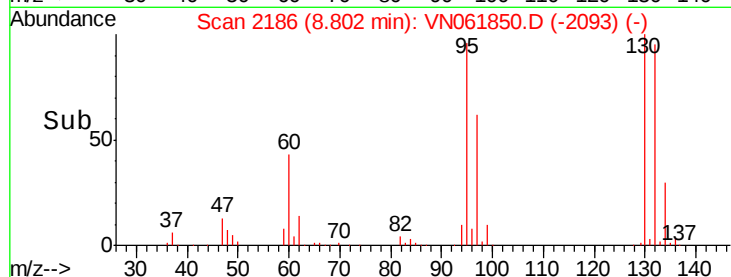
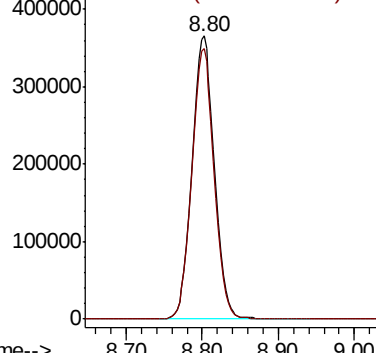
#44
 Trichloroethene
 Concen: 401.234 ug/l
 RT: 8.80 min Scan# 2186
 Delta R.T. -0.00 min
 Lab File: VN061850.D
 Acq: 17 Jun 2020 15:51

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D3-20200610

Tot Ion:130 Resp: 744879
 Ion Ratio Lower Upper
 130 100
 95 95.5 0.0 195.6

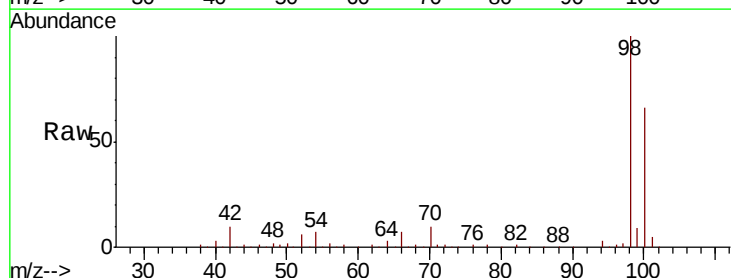


Abundance Ion 129.80 (129.50 to 130.50): VN061850.D (-2093) (-)
 Ion 94.90 (94.60 to 95.60): VN061850.D (-2093) (-)

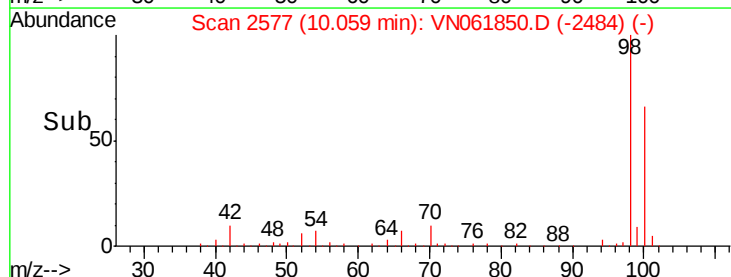
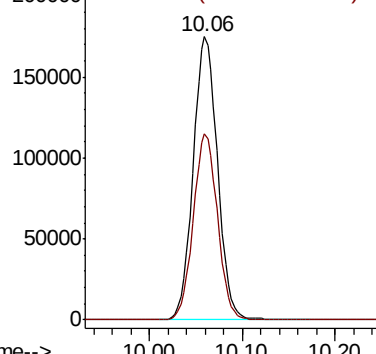


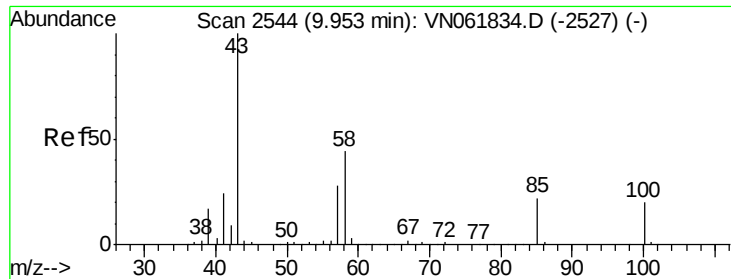
#50
 Toluene-d8
 Concen: 49.590 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. -0.00 min
 Lab File: VN061850.D
 Acq: 17 Jun 2020 15:51

Tgt Ion: 98 Resp: 318433
 Ion Ratio Lower Upper
 98 100
 100 65.5 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061850.D (-2484) (-)
 Ion 100.00 (99.70 to 100.70): VN061850.D (-2484) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.615 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

Instrument :

MSVOA_N

ClientSampleId :

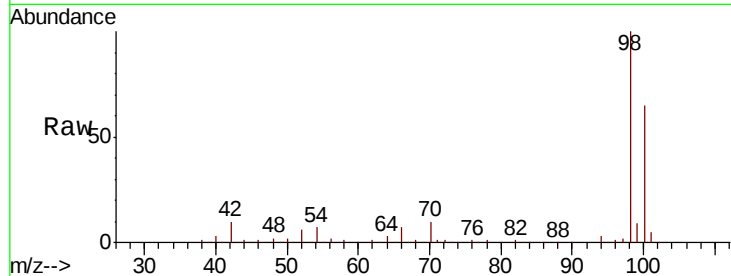
RE103D3-20200610

Tot Ion: 43 Resp: 1114

Ion Ratio Lower Upper

43 100

58 201.3 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

1500

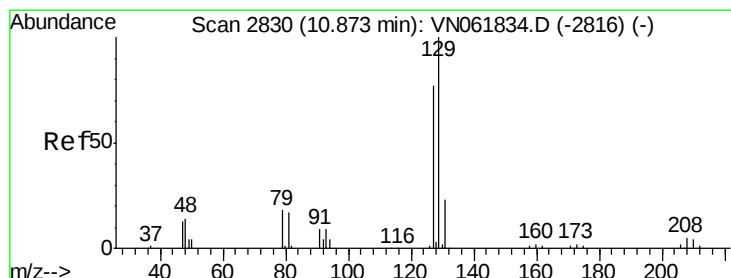
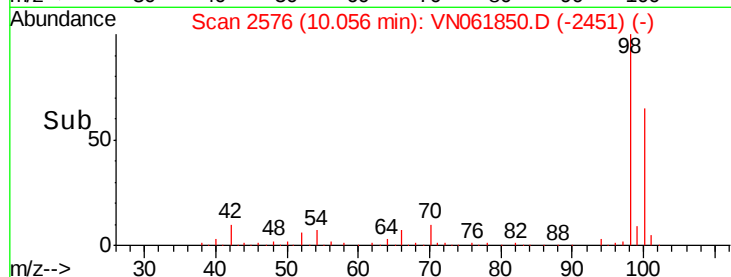
1000

500

0

10.05 10.10

Time-->



#60

Dibromochloromethane

Concen: 0.335 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061850.D

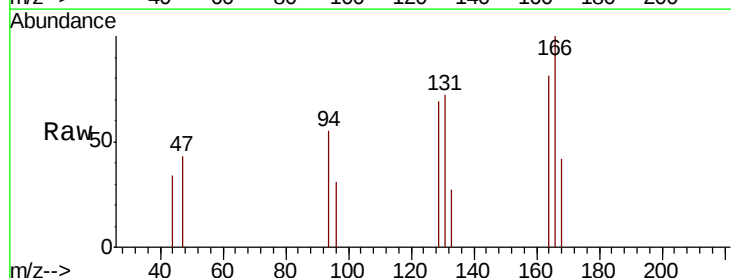
Acq: 17 Jun 2020 15:51

Tgt Ion: 129 Resp: 651

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VN061834.D (-2816) (-)

Ion 126.80 (126.50 to 127.50): VN061834.D (-2816) (-)

400

300

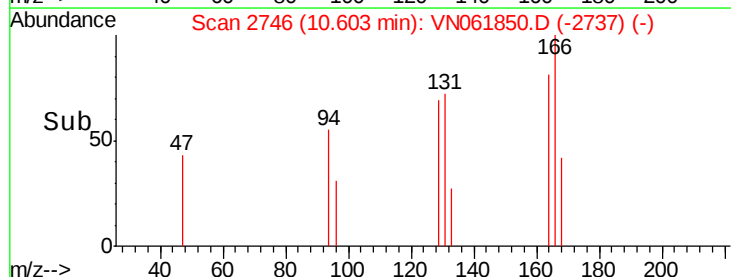
200

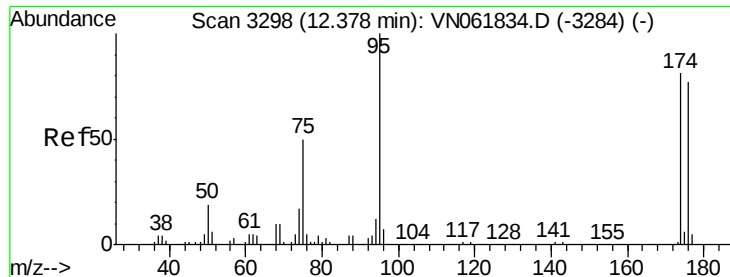
100

0

10.58 10.62

Time-->

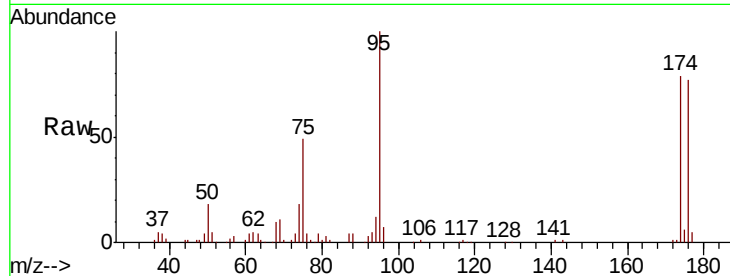




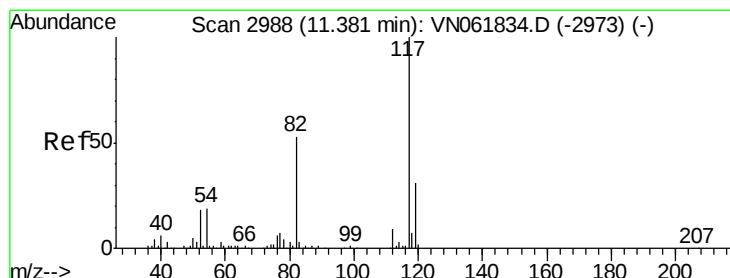
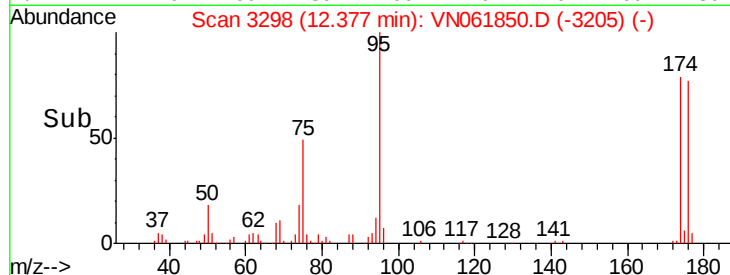
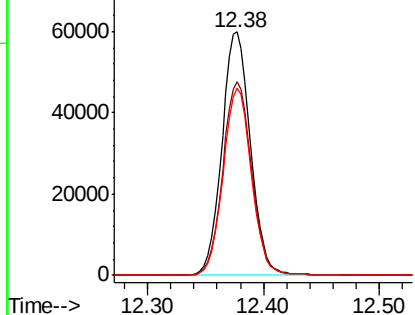
#62
 4-Bromofluorobenzene
 Concen: 46.428 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN061850.D
 Acq: 17 Jun 2020 15:51

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D3-20200610

Tot Ion: 95 Resp: 102262
 Ion Ratio Lower Upper
 95 100
 174 80.2 0.0 158.6
 176 76.2 0.0 152.0

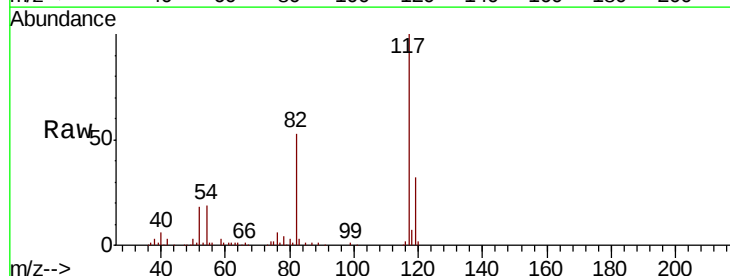


Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)
 Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)
 Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)

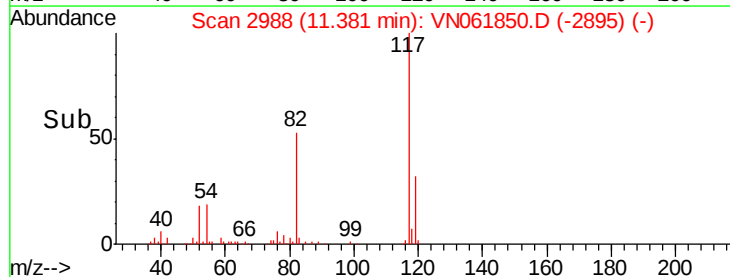
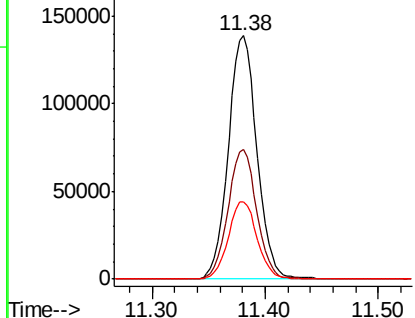


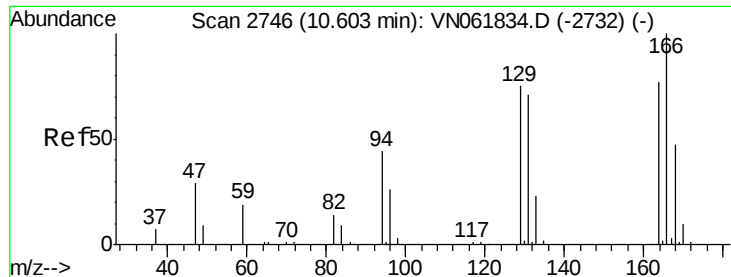
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. -0.00 min
 Lab File: VN061850.D
 Acq: 17 Jun 2020 15:51

Tgt Ion: 117 Resp: 244001
 Ion Ratio Lower Upper
 117 100
 82 53.0 42.6 64.0
 119 31.8 24.7 37.1



Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)
 Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)
 Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)





#64

Tetrachloroethene

Concen: 0.421 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.00 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

Instrument :

MSVOA_N

ClientSampleId :

RE103D3-20200610

Tot Ion:164 Resp: 654

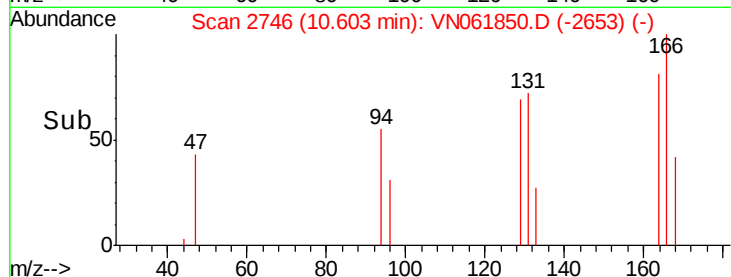
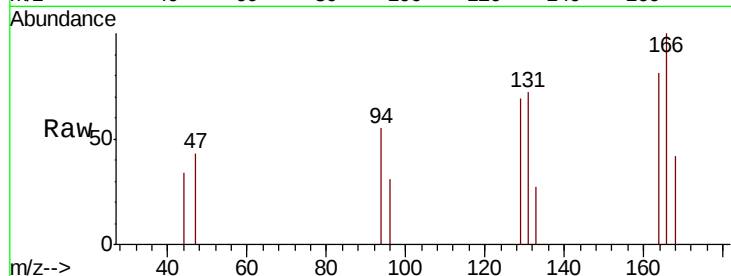
Ion Ratio Lower Upper

164 100

166 122.8 103.5 155.3

129 85.3 77.5 116.3

131 88.8 73.8 110.8

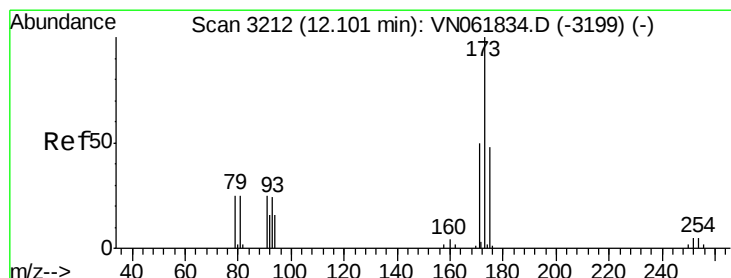
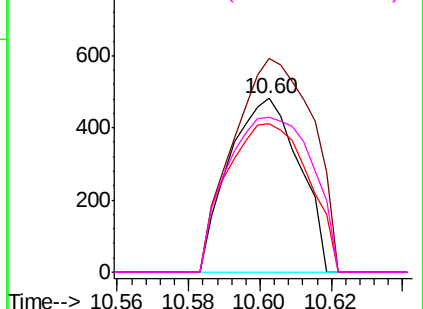


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.360 ug/l

RT: 12.10 min Scan# 3212

Delta R.T. -0.00 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

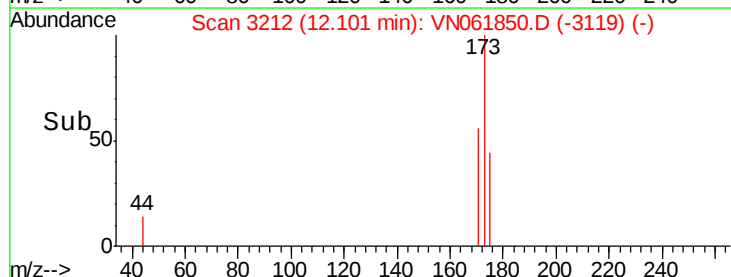
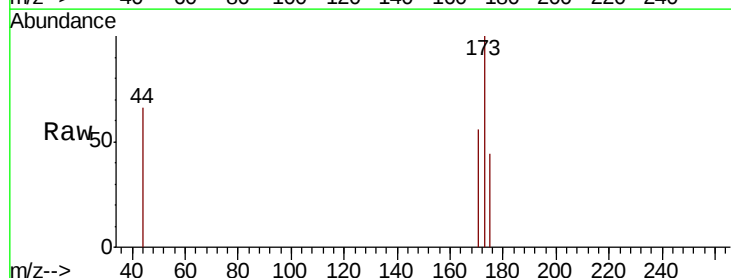
Tgt Ion:173 Resp: 472

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.7#

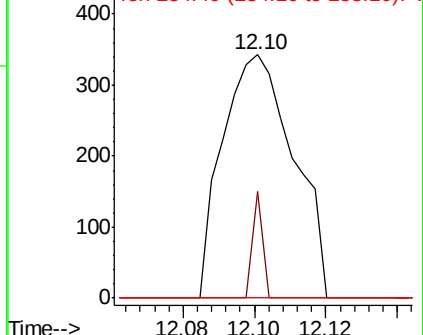
254 0.0 0.0 0.0

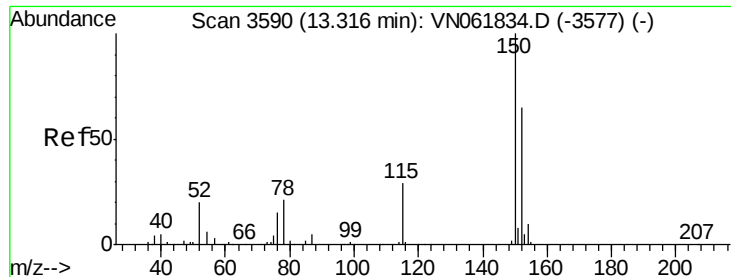


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN061850.D

Acq: 17 Jun 2020 15:51

Instrument :

MSVOA_N

ClientSampleId :

RE103D3-20200610

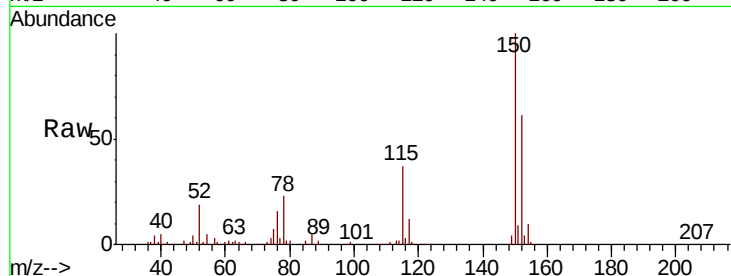
Tot Ion:152 Resp: 90198

Ion Ratio Lower Upper

152 100

115 59.0 29.1 87.3

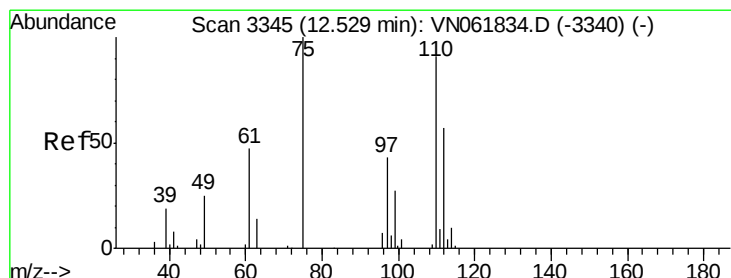
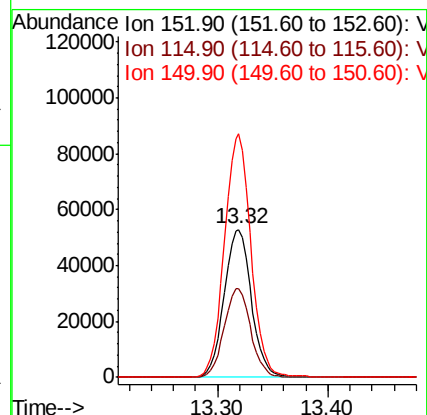
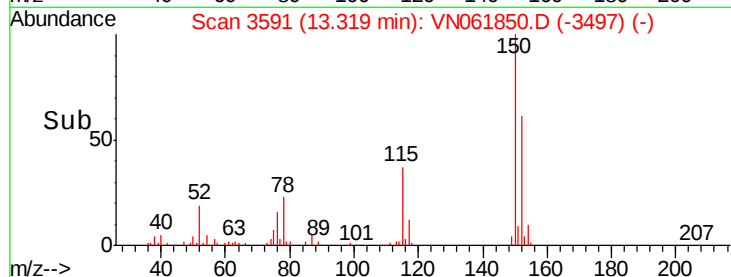
150 160.8 0.0 347.6



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: 28.794 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061850.D

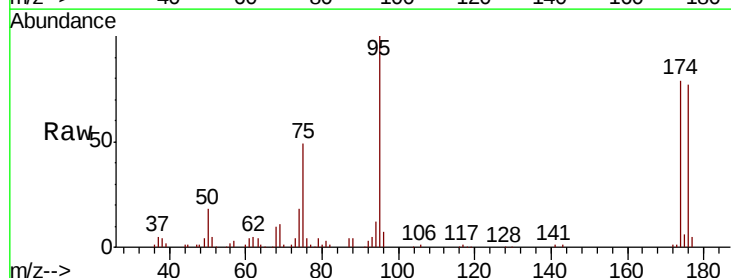
Acq: 17 Jun 2020 15:51

Tgt Ion: 75 Resp: 50988

Ion Ratio Lower Upper

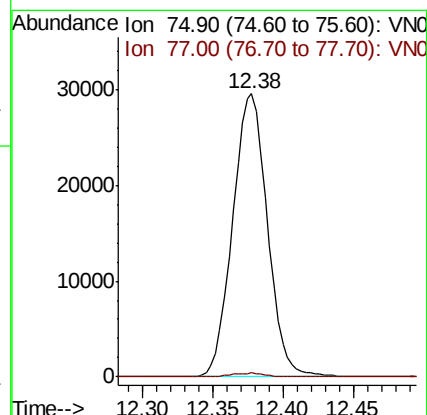
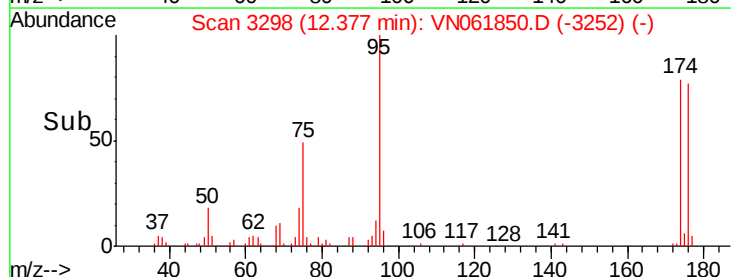
75 100

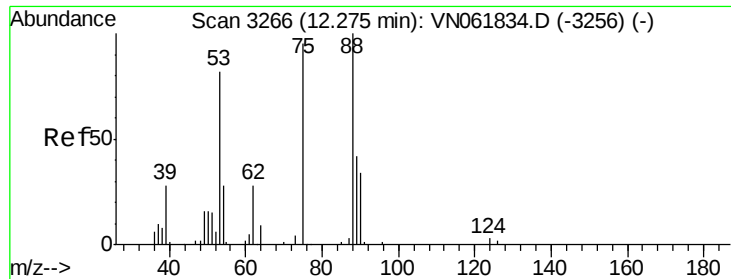
77 1.2 0.0 0.0#



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: 78.532 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061850.D

Acq: 17 Jun 2020 15:51

Instrument :

MSVOA_N

ClientSampleId :

RE103D3-20200610

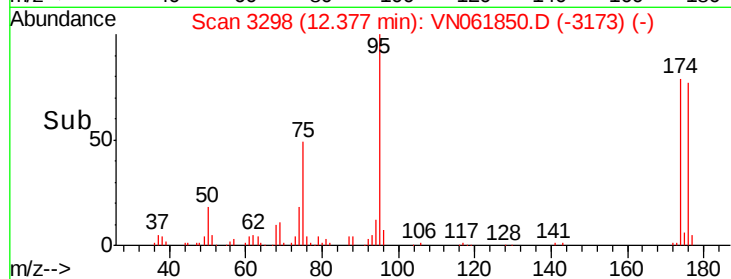
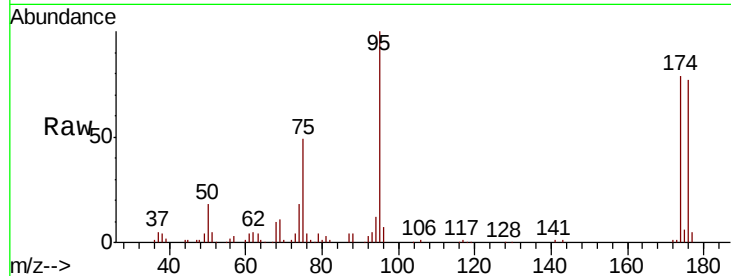
Tot Ion: 75 Resp: 50988

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

