

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062220\
 Data File : VN061998.D
 Acq On : 22 Jun 2020 14:41
 Operator : JC/MD
 Sample : L3043-02DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D1-20200615DL

Quant Time: Jun 23 05:16:41 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	7.62	168	141512	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	257183	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	250907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	106018	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	96501	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
35) Dibromofluoromethane	7.54	113	82294	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
50) Toluene-d8	10.06	98	326984	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.38	95	113883	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	

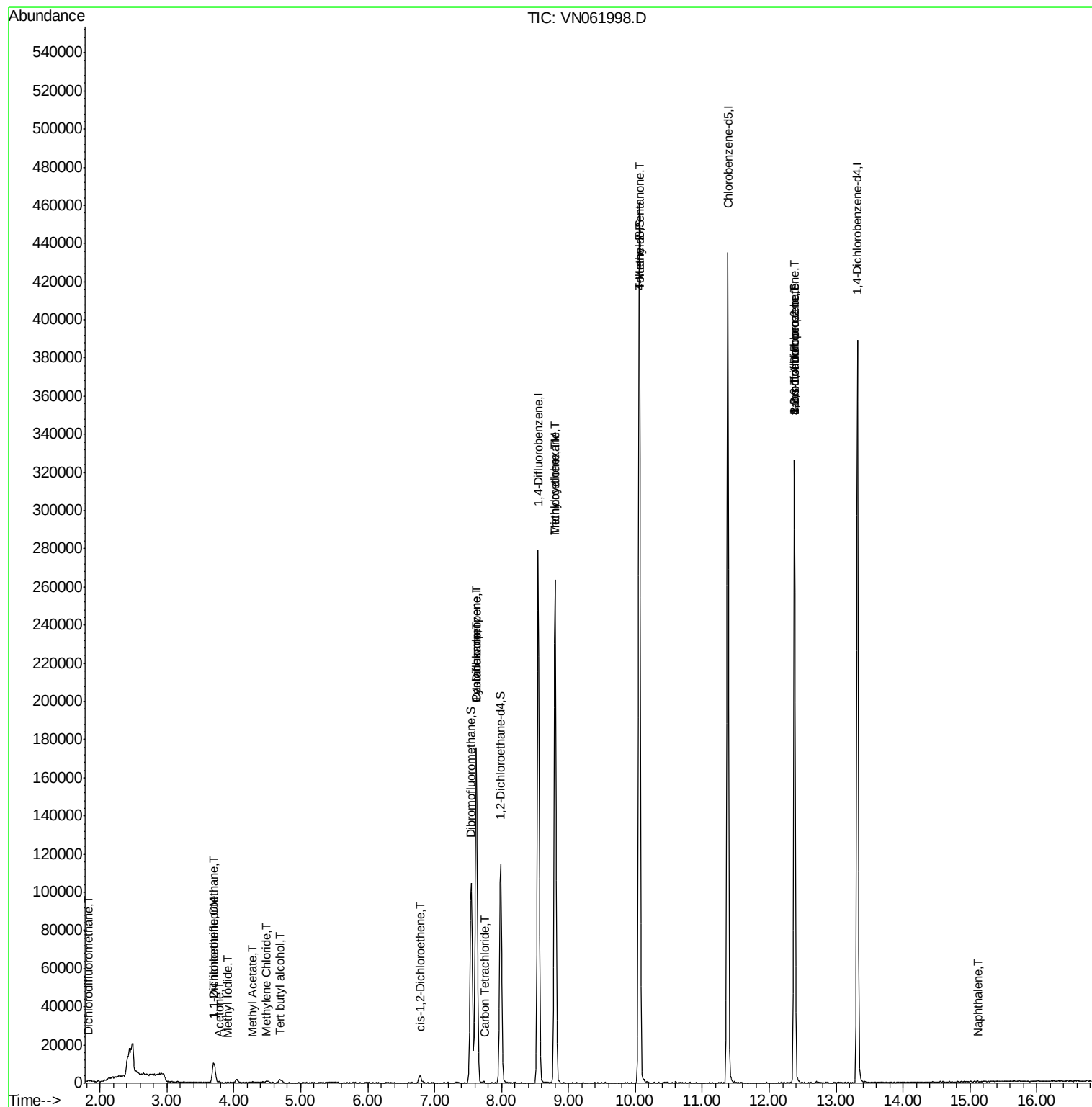
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	310	0.459	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	3.71	101	6171	4.300	ug/l #	84
10) Methyl Iodide	3.91	142	30	5.334	ug/l #	42
11) Tert butyl alcohol	4.69	59	1306	4.973	ug/l #	74
12) 1,1-Dichloroethene	3.69	96	2362	1.643	ug/l	87
16) Acetone	3.78	43	1056	1.884	ug/l #	40
18) Methyl Acetate	4.28	43	498	0.309	ug/l #	46
20) Methylene Chloride	4.50	84	937	0.513	ug/l #	49
27) cis-1,2-Dichloroethene	6.78	96	941	0.494	ug/l	65
31) Cyclohexane	7.63	56	3104	1.241	ug/l #	40
36) 1,1-Dichloropropene	7.63	75	11751	5.009	ug/l #	49
38) Carbon Tetrachloride	7.74	117	707	0.304	ug/l #	63
39) Methylcyclohexane	8.80	83	1289	0.510	ug/l #	1
44) Trichloroethene	8.80	130	97694	52.240	ug/l	98
51) 4-Methyl-2-Pentanone	10.06	43	1298	0.712	ug/l #	1
71) Bromoform	12.38	173	567	0.421	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	56997	27.384	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	56997	74.688	ug/l #	14
95) Naphthalene	15.11	128	677	3.603	ug/l #	69

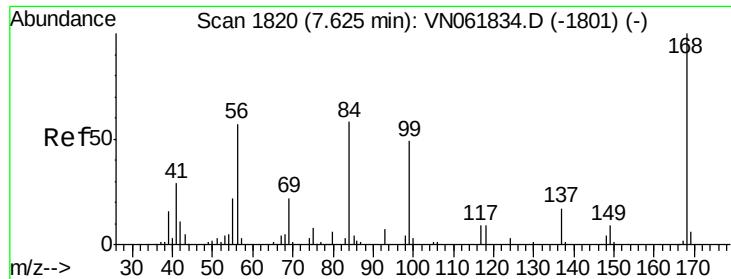
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

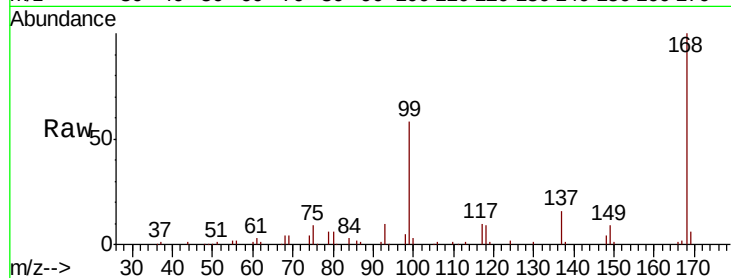
TT101D1-20200615DL

Tot Ion:168 Resp: 141512

Ion Ratio Lower Upper

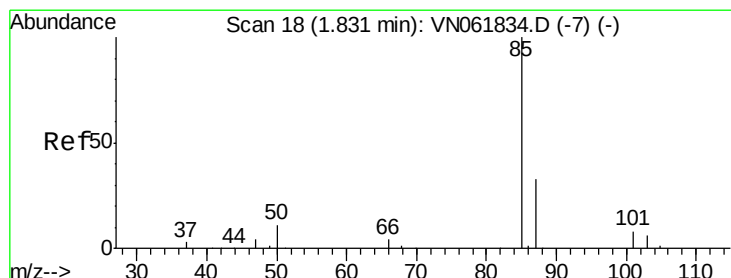
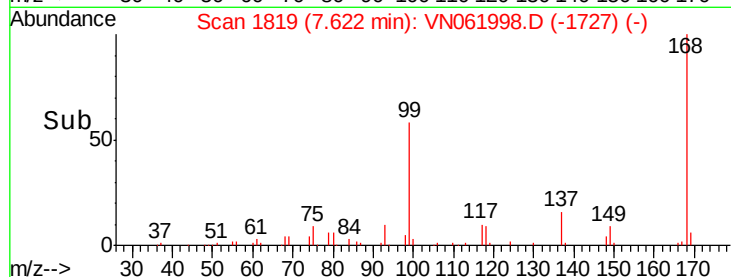
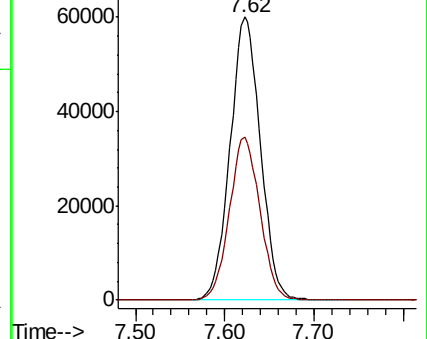
168 100

99 57.7 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 0.459 ug/l

RT: 1.83 min Scan# 17

Delta R.T. -0.00 min

Lab File: VN061998.D

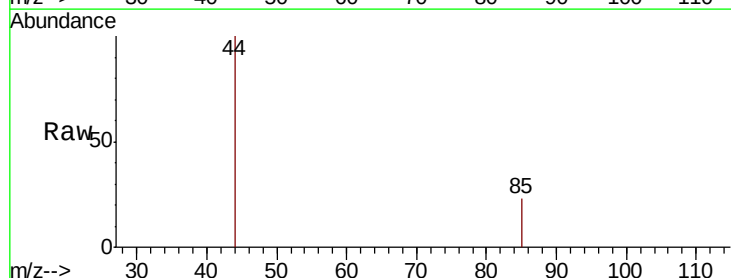
Acq: 22 Jun 2020 14:41

Tgt Ion: 85 Resp: 310

Ion Ratio Lower Upper

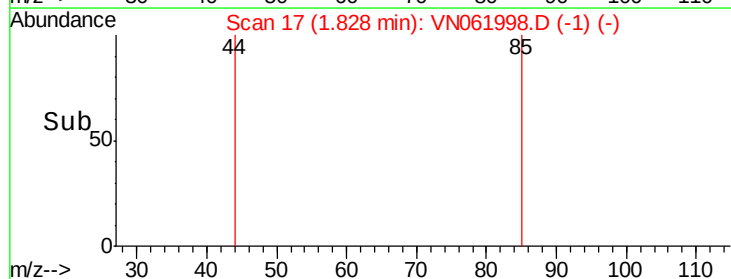
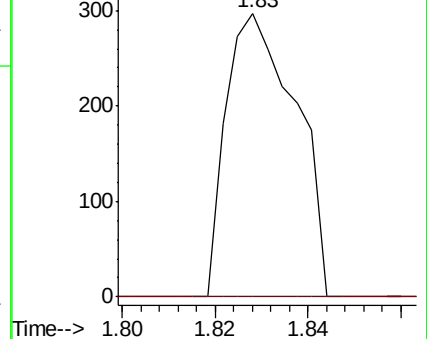
85 100

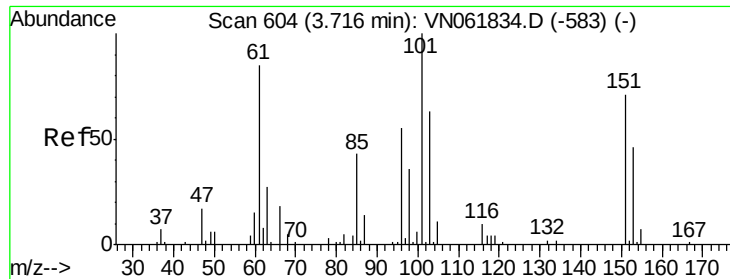
87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.300 ug/l

RT: 3.71 min Scan# 601

Delta R.T. -0.01 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20200615DL

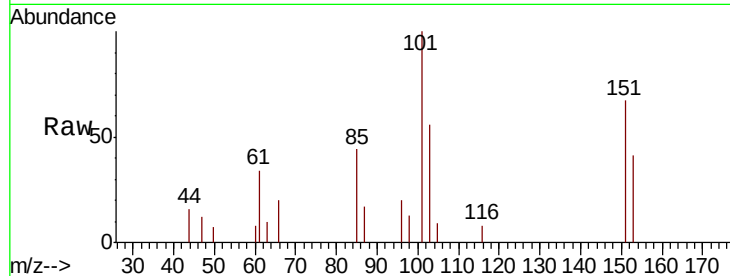
Tot Ion:101 Resp: 6171

Ion Ratio Lower Upper

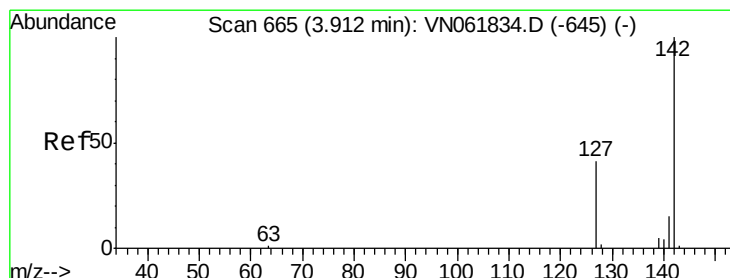
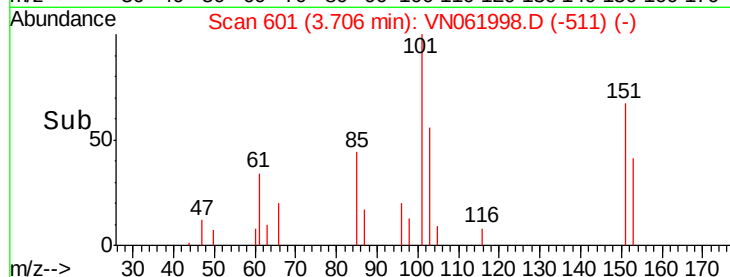
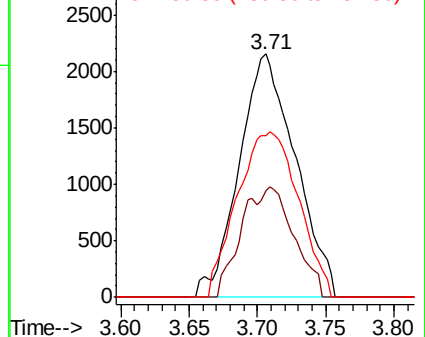
101 100

85 15.3 35.0 52.6#

151 74.0 59.2 88.8



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 5.334 ug/l

RT: 3.91 min Scan# 666

Delta R.T. 0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

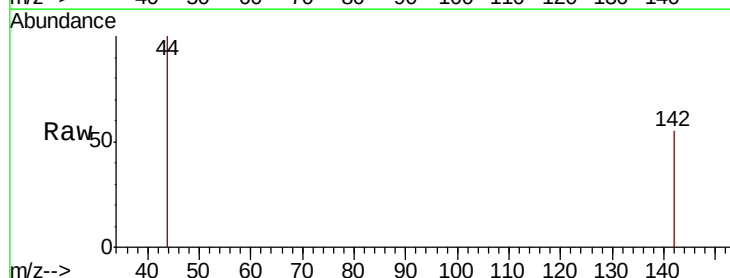
Tgt Ion:142 Resp: 30

Ion Ratio Lower Upper

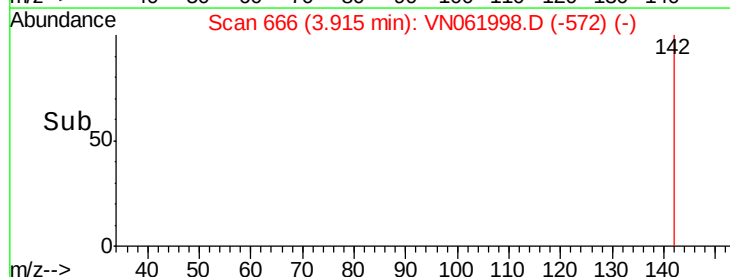
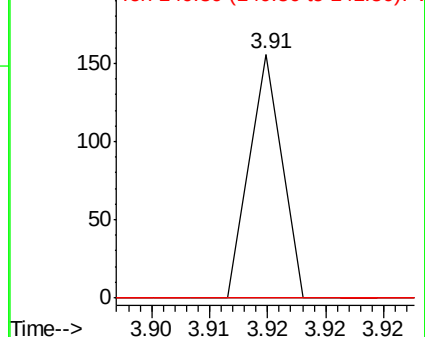
142 100

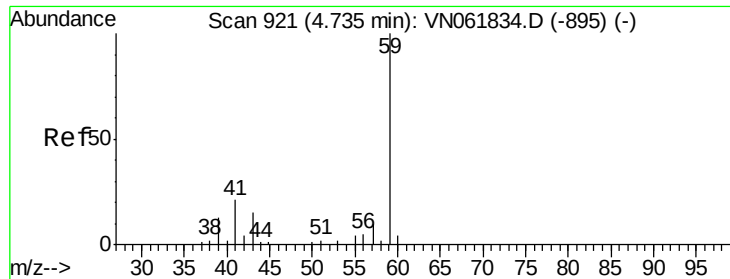
127 0.0 33.4 50.0#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

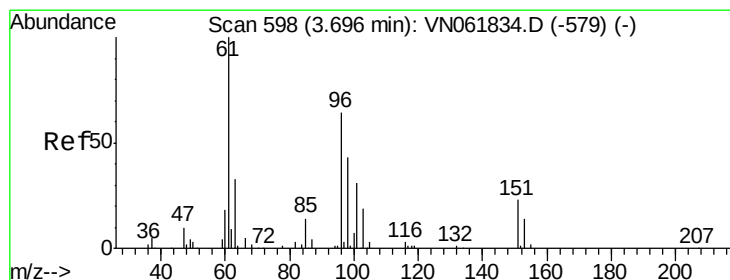
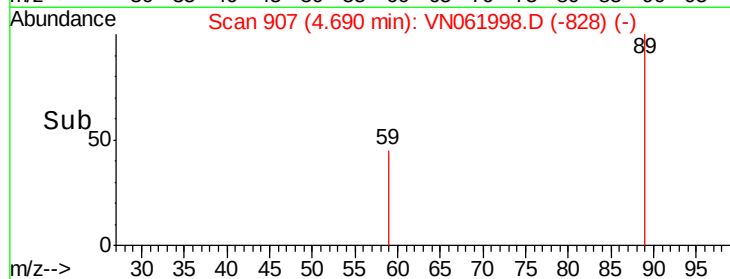
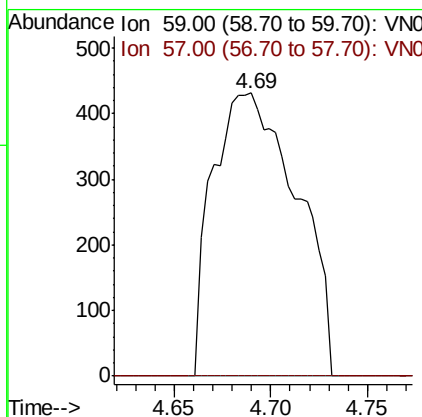
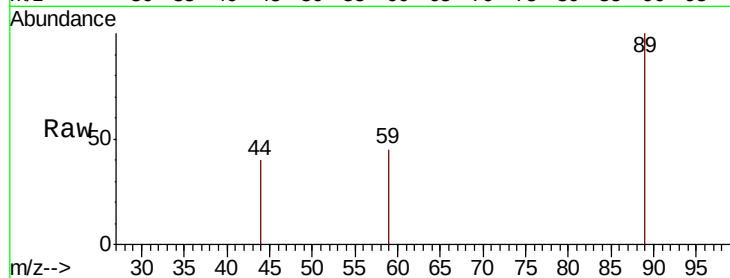




#11
Tert butyl alcohol
Concen: 4.973 ug/l
RT: 4.69 min Scan# 907
Delta R.T. -0.05 min
Lab File: VN061998.D
Acq: 22 Jun 2020 14:41

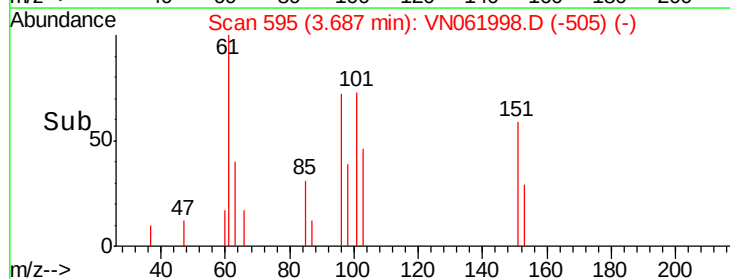
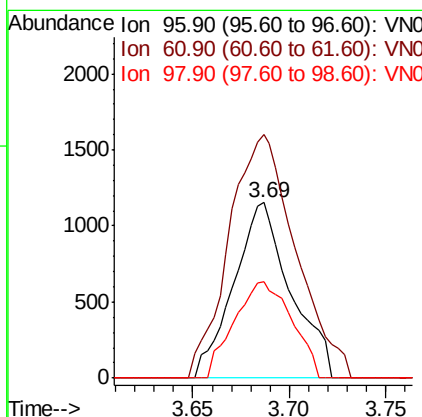
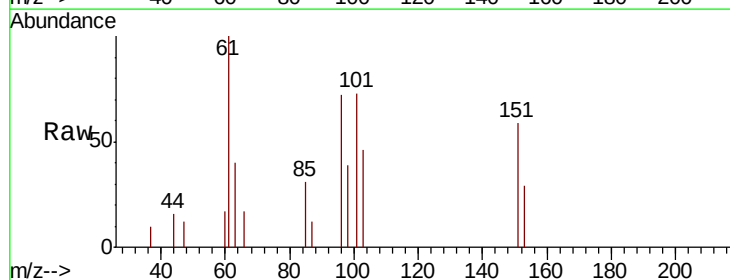
Instrument :
MSVOA_N
ClientSampleId :
TT101D1-20200615DL

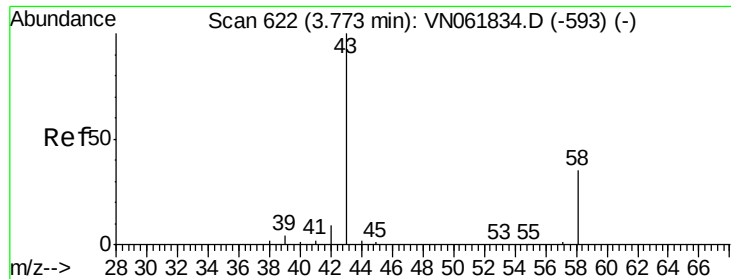
Tot Ion: 59 Resp: 1306
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#



#12
1,1-Dichloroethene
Concen: 1.643 ug/l
RT: 3.69 min Scan# 595
Delta R.T. -0.01 min
Lab File: VN061998.D
Acq: 22 Jun 2020 14:41

Tgt Ion: 96 Resp: 2362
Ion Ratio Lower Upper
96 100
61 138.9 124.3 186.5
98 54.8 53.1 79.7





#16

Acetone

Concen: 1.884 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

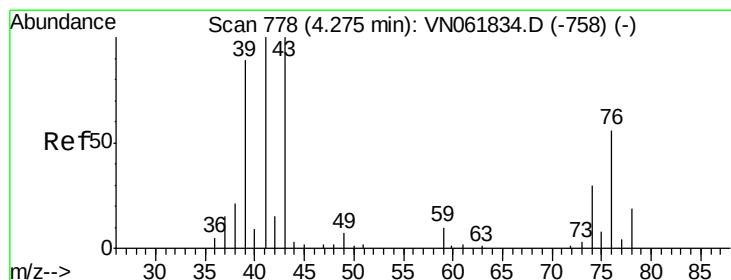
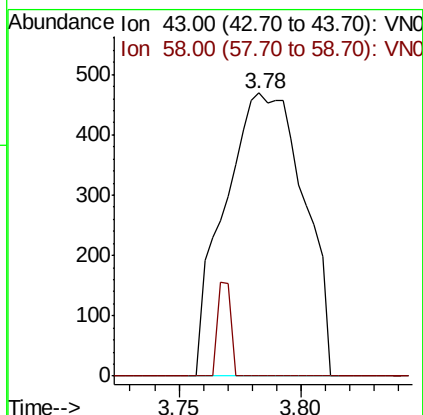
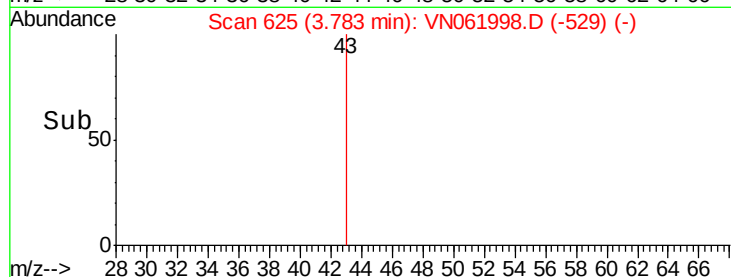
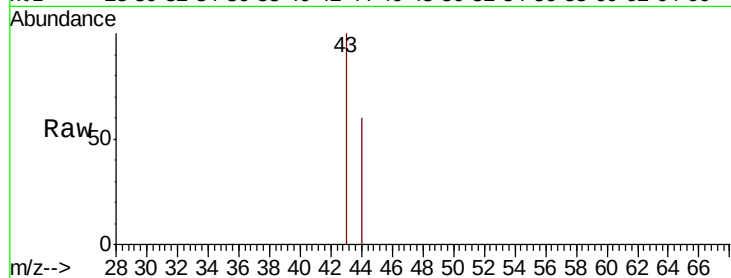
TT101D1-20200615DL

Tot Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#



#18

Methyl Acetate

Concen: 0.309 ug/l

RT: 4.28 min Scan# 779

Delta R.T. 0.00 min

Lab File: VN061998.D

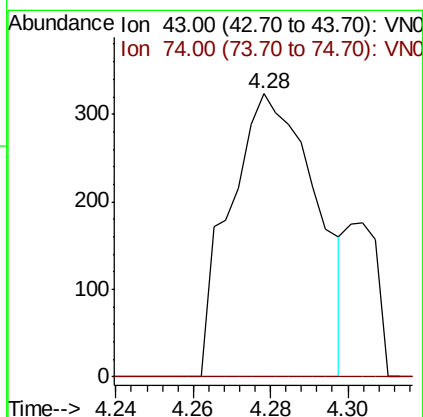
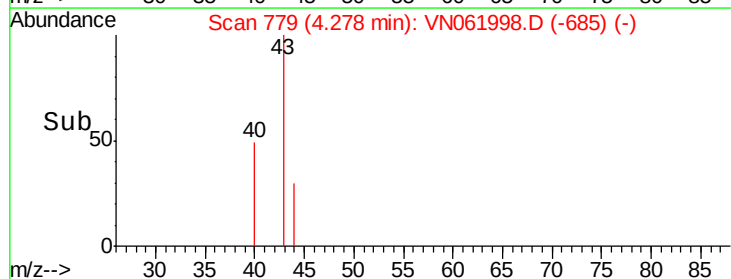
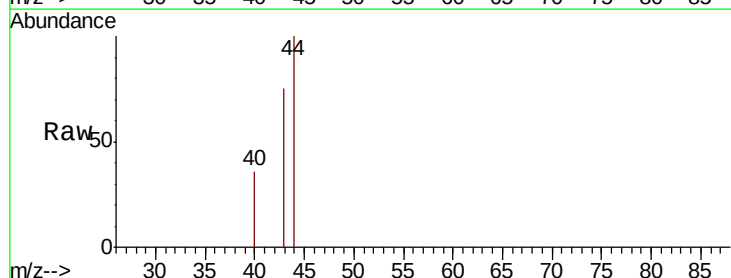
Acq: 22 Jun 2020 14:41

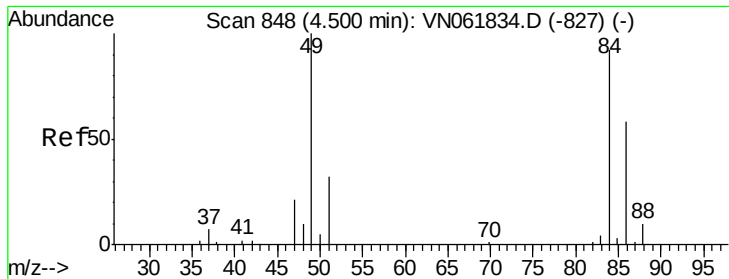
Tgt Ion: 43 Resp: 498

Ion Ratio Lower Upper

43 100

74 0.0 23.0 34.4#





#20

Methylene Chloride

Concen: 0.513 ug/l

RT: 4.50 min Scan# 847

Delta R.T. -0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20200615DL

Tot Ion: 84 Resp: 937

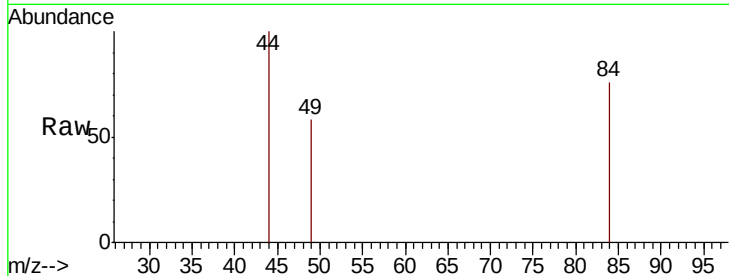
Ion Ratio Lower Upper

84 100

49 77.0 87.0 130.4#

51 0.0 27.8 41.6#

86 0.0 50.2 75.2#

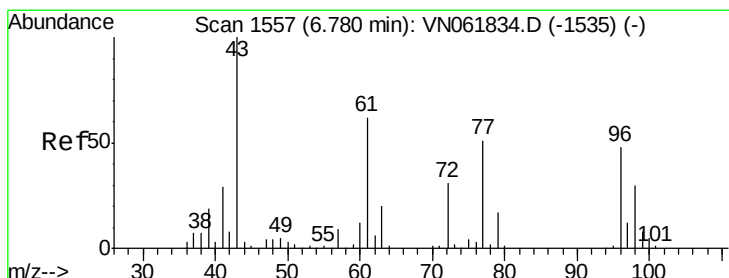
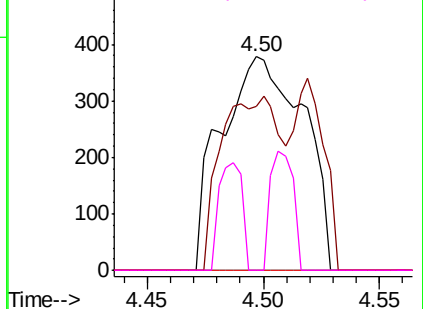
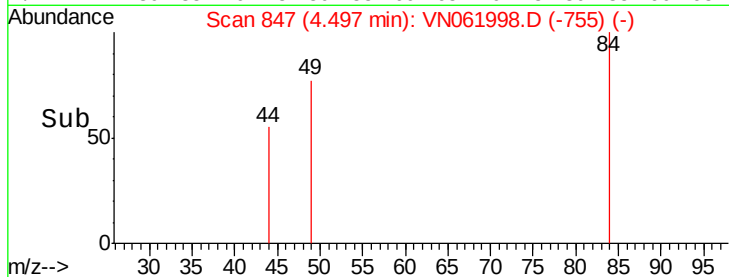


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#27

cis-1,2-Dichloroethene

Concen: 0.494 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

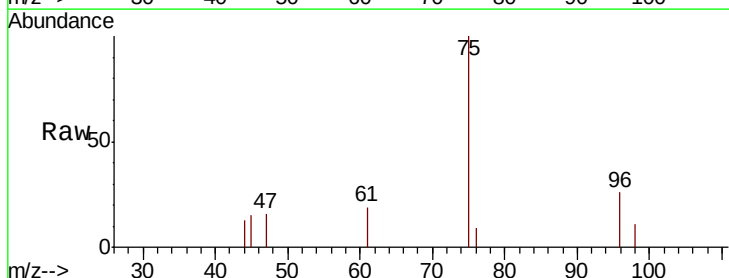
Tgt Ion: 96 Resp: 941

Ion Ratio Lower Upper

96 100

61 92.3 0.0 265.6

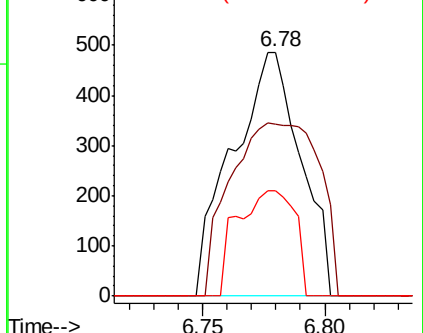
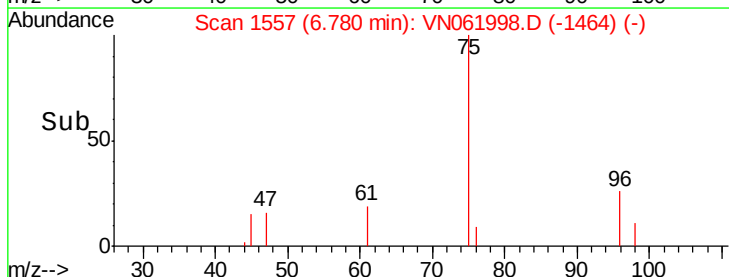
98 36.7 0.0 128.2

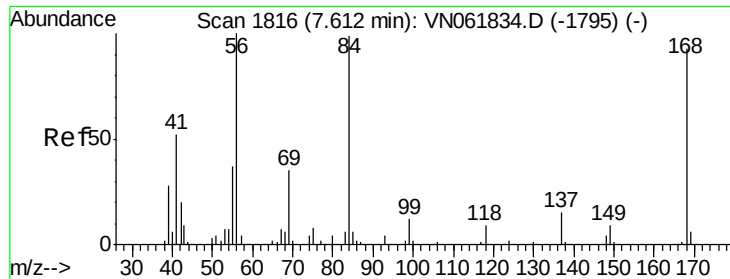


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

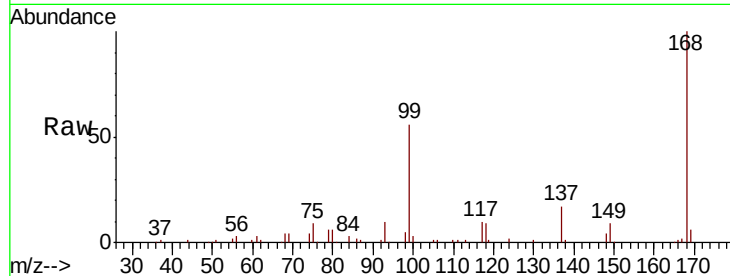




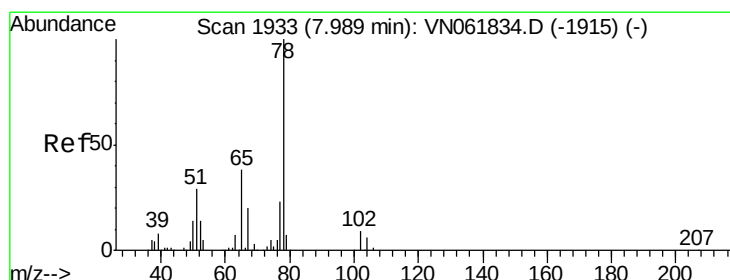
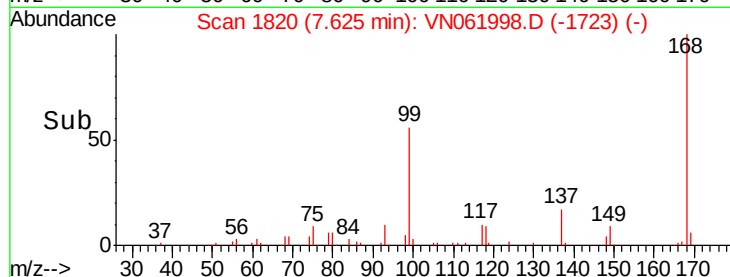
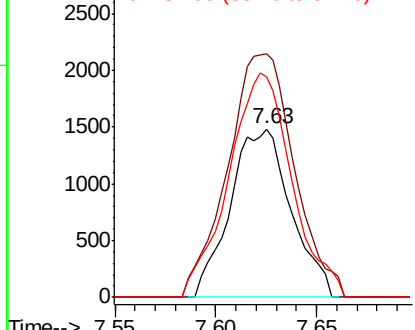
#31
Cyclohexane
Concen: 1.241 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061998.D
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Instrument :
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ClientSampleId :
TT101D1-20200615DL

Tot Ion: 56 Resp: 3104
Ion Ratio Lower Upper
56 100
69 133.0 27.7 41.5#
84 120.8 79.1 118.7#

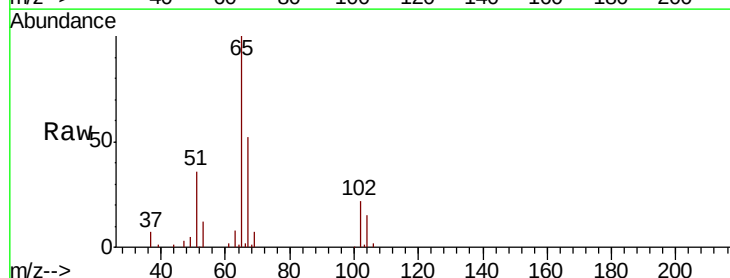


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

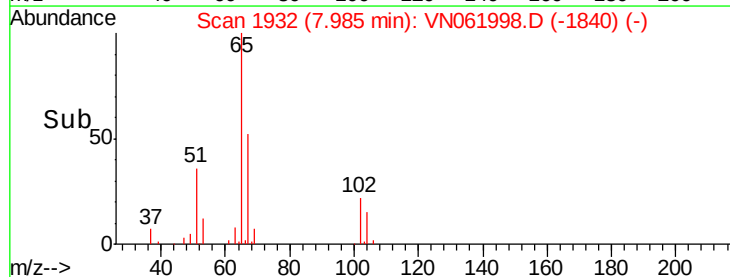
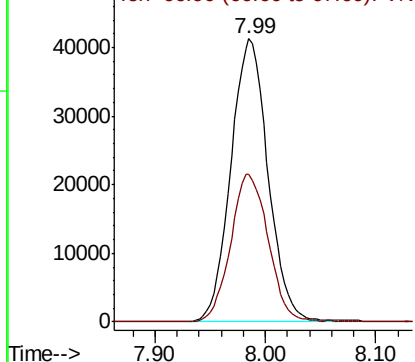


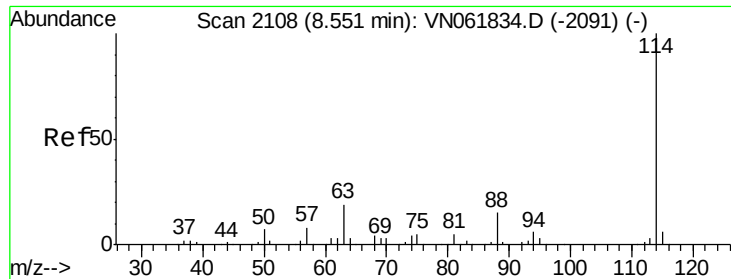
#33
1,2-Dichloroethane-d4
Concen: 50.847 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061998.D
Acq: 22 Jun 2020 14:41

Tgt Ion: 65 Resp: 96501
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.2



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

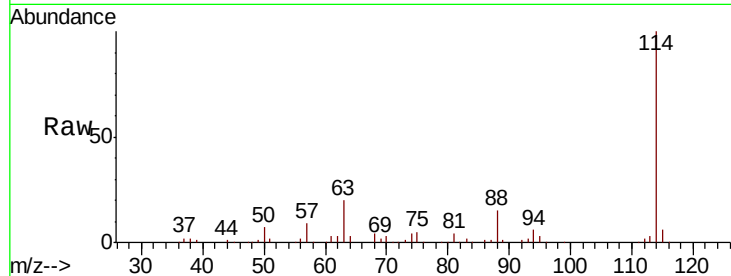




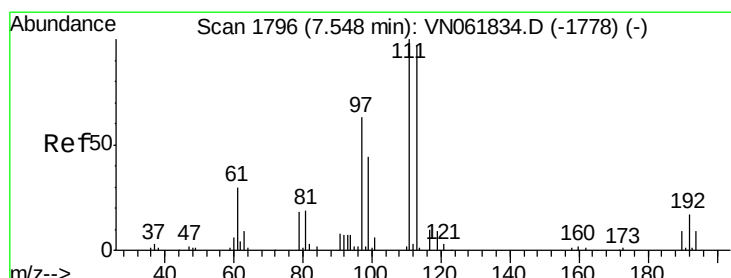
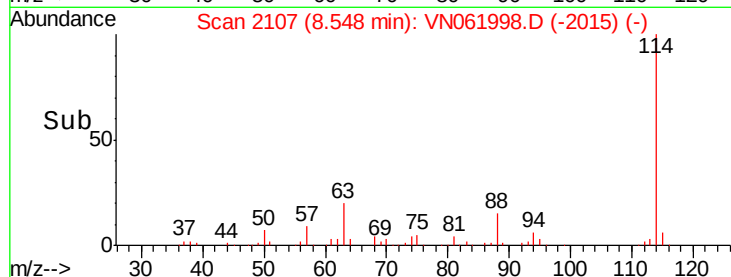
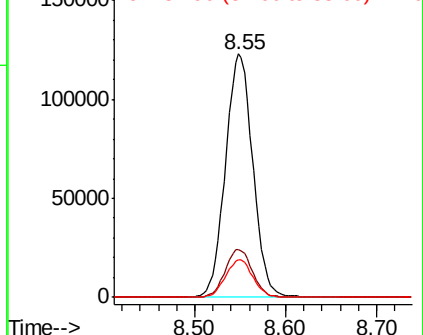
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2107
Delta R.T. -0.00 min
Lab File: VN061998.D
Acq: 22 Jun 2020 14:41

Instrument :
MSVOA_N
ClientSampleId :
TT101D1-20200615DL

Tot Ion:114 Resp: 257183
Ion Ratio Lower Upper
114 100
63 19.8 0.0 37.6
88 15.3 0.0 31.0

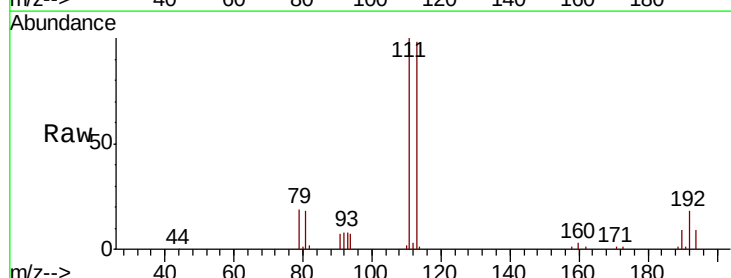


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

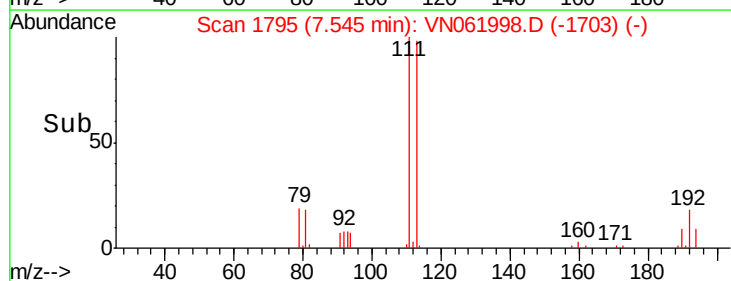
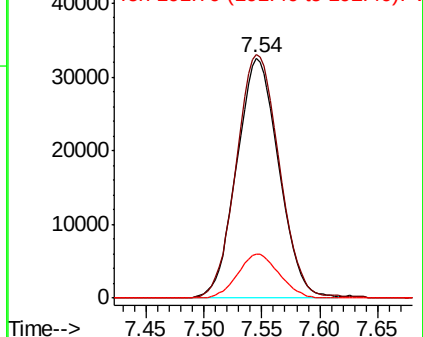


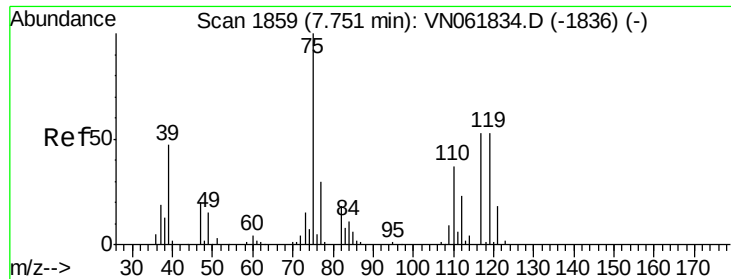
#35
Dibromofluoromethane
Concen: 50.017 ug/l
RT: 7.54 min Scan# 1795
Delta R.T. -0.00 min
Lab File: VN061998.D
Acq: 22 Jun 2020 14:41

Tgt Ion:113 Resp: 82294
Ion Ratio Lower Upper
113 100
111 103.5 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: 5.009 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20200615DL

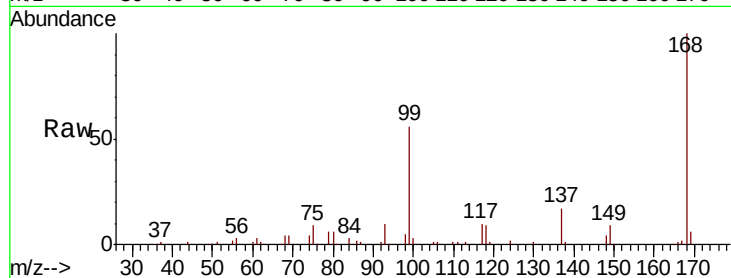
Tot Ion: 75 Resp: 11751

Ion Ratio Lower Upper

75 100

110 9.0 18.2 54.6#

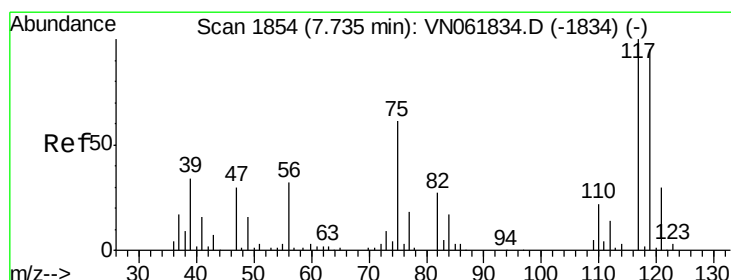
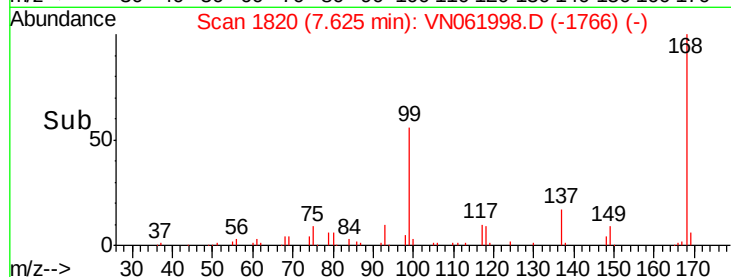
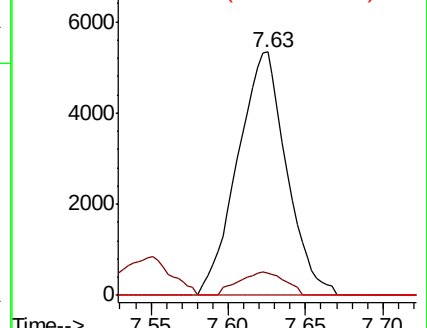
77 0.0 24.2 36.4#



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: 0.304 ug/l

RT: 7.74 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

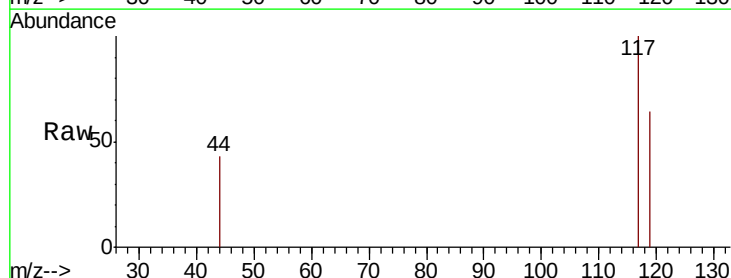
Tgt Ion: 117 Resp: 707

Ion Ratio Lower Upper

117 100

119 64.2 75.8 113.6#

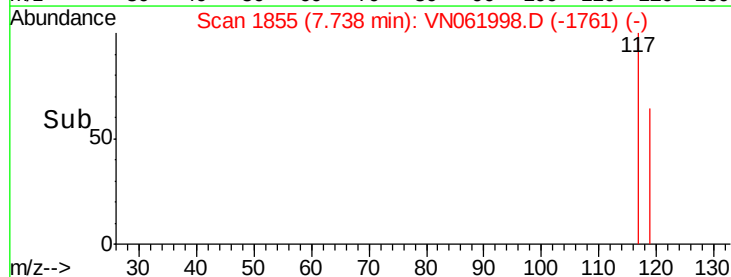
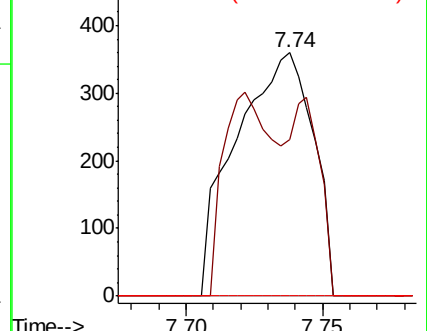
121 0.0 23.8 35.6#

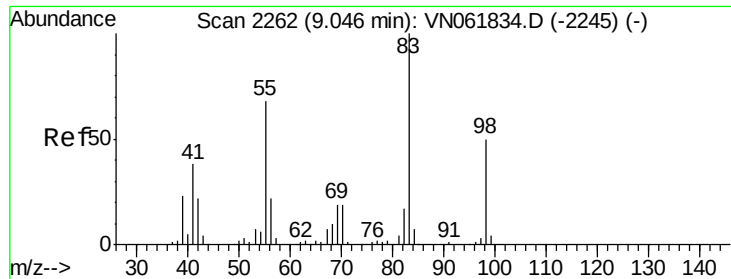


Abundance Ion 116.80 (116.50 to 117.50): VN061834.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN061834.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN061834.D (-1834) (-)

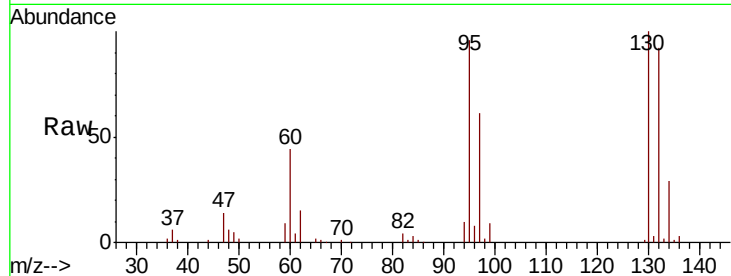




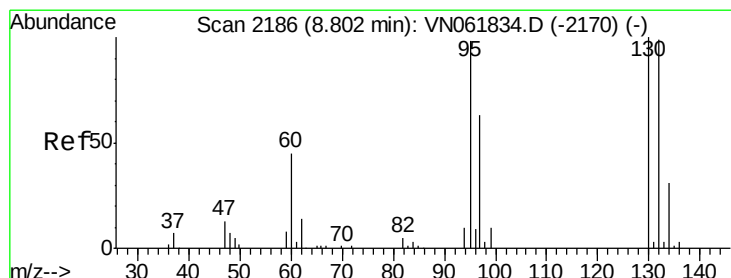
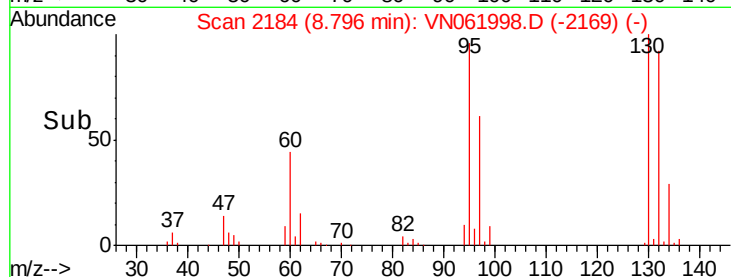
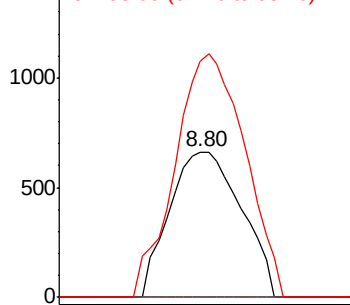
#39
Methvlcvclohexane
Concen: 0.510 ug/l
RT: 8.80 min Scan# 2184
Delta R.T. -0.25 min
Lab File: VN061998.D
Acq: 22 Jun 2020 14:41

Instrument :
MSVOA_N
ClientSampleId :
TT101D1-20200615DL

Tot Ion: 83 Resp: 1289
Ion Ratio Lower Upper
83 100
55 0.0 54.2 81.4#
98 162.4 39.8 59.6#

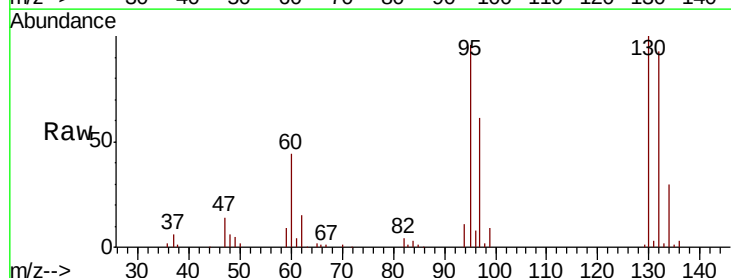


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

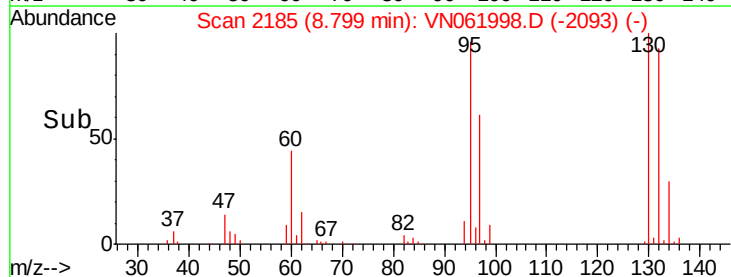
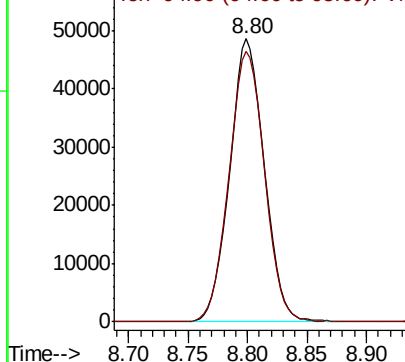


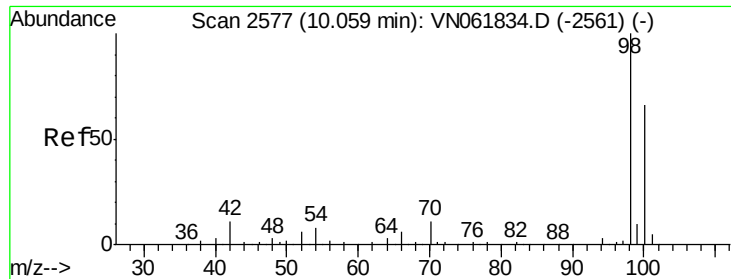
#44
Trichloroethene
Concen: 52.240 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VN061998.D
Acq: 22 Jun 2020 14:41

Tgt Ion:130 Resp: 97694
Ion Ratio Lower Upper
130 100
95 95.6 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 50.551 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

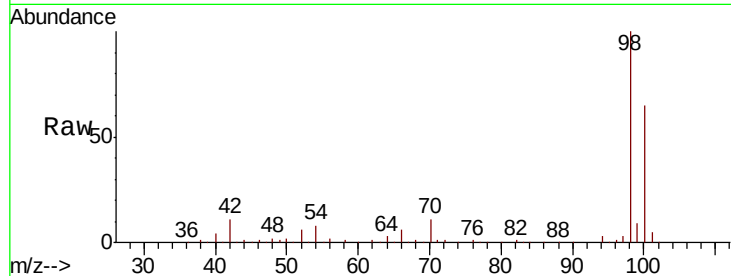
TT101D1-20200615DL

Tot Ion: 98 Resp: 326984

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

10.06

150000

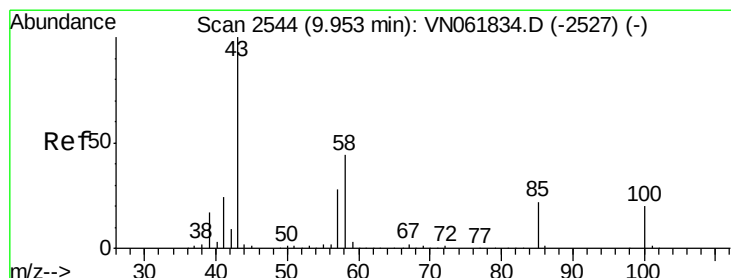
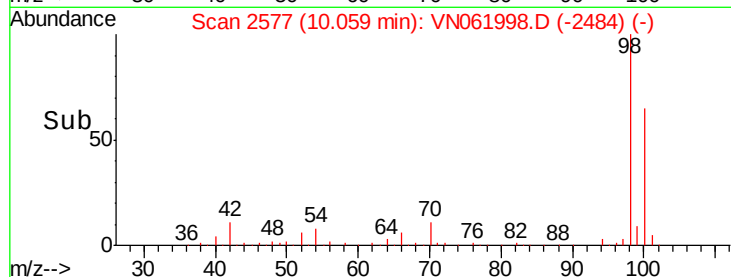
100000

50000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.712 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061998.D

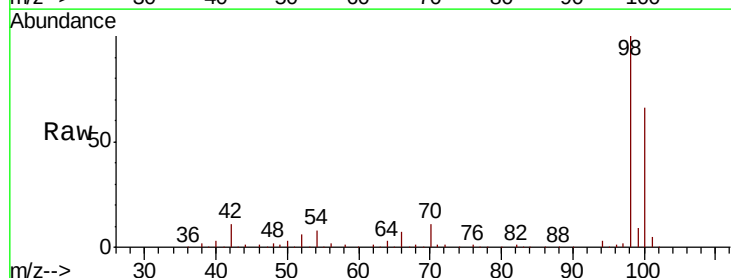
Acq: 22 Jun 2020 14:41

Tgt Ion: 43 Resp: 1298

Ion Ratio Lower Upper

43 100

58 177.1 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) (-)

10.06

1500

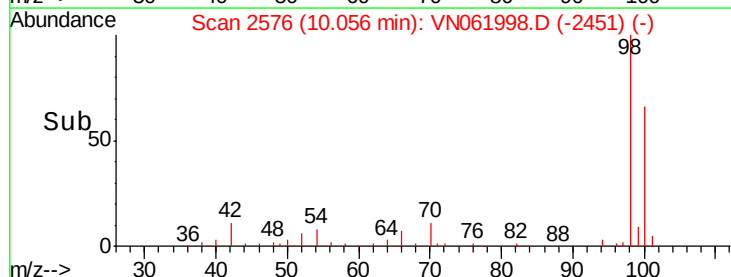
1000

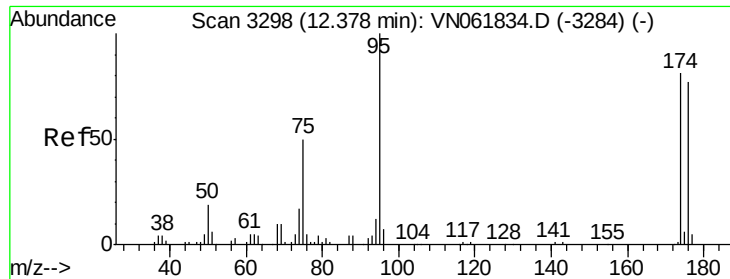
500

0

10.05 10.10

Time-->





#62

4-Bromofluorobenzene

Concen: 51.327 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20200615DL

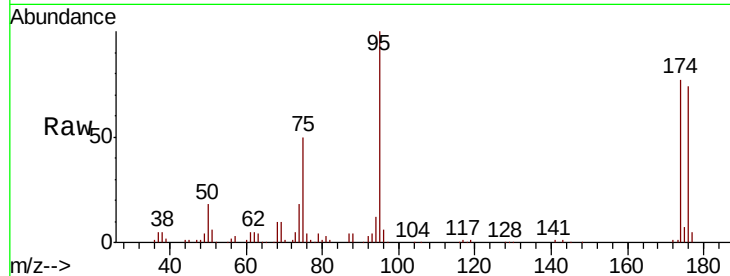
Tot Ion: 95 Resp: 113883

Ion Ratio Lower Upper

95 100

174 76.6 0.0 158.6

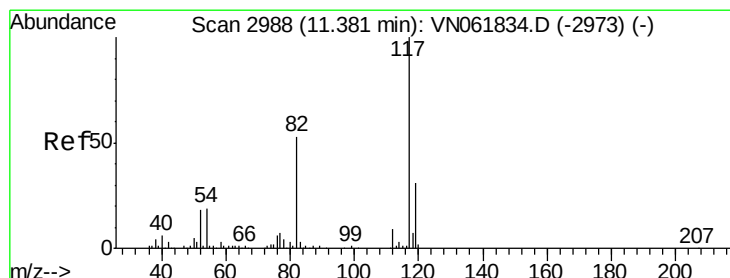
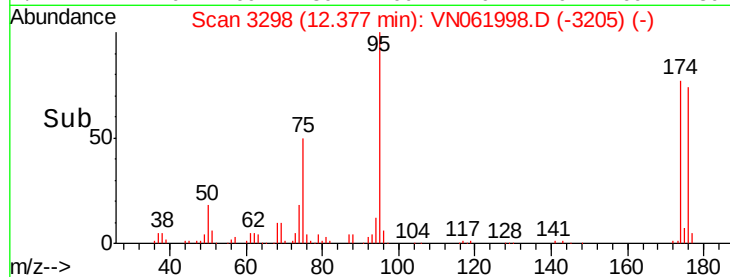
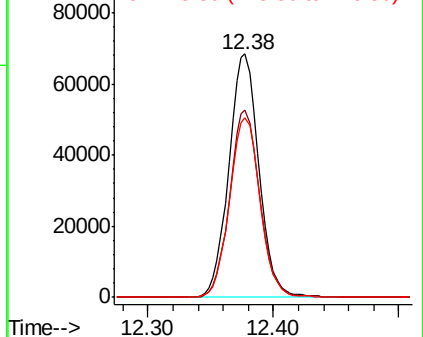
176 74.8 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061998.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061998.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061998.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

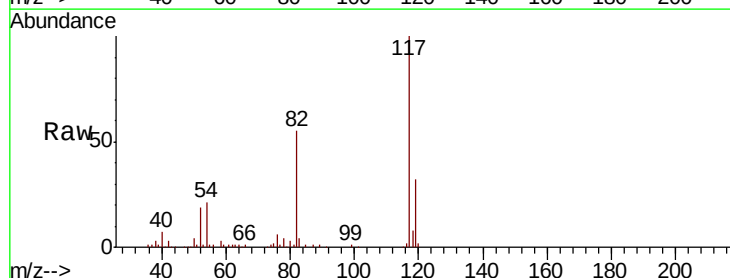
Tgt Ion: 117 Resp: 250907

Ion Ratio Lower Upper

117 100

82 55.5 42.6 64.0

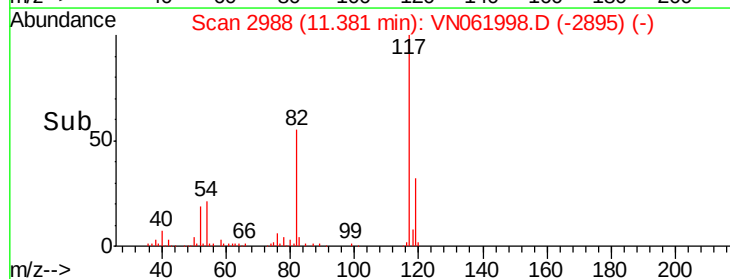
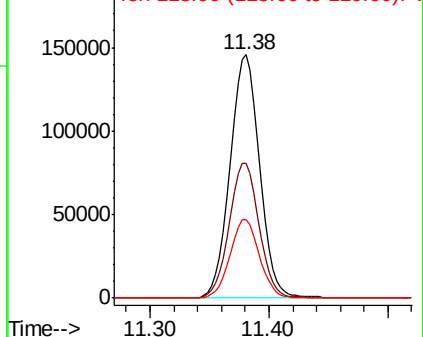
119 32.4 24.7 37.1

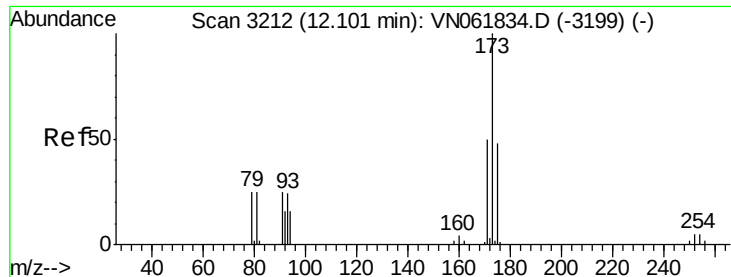


Abundance Ion 116.90 (116.60 to 117.60): VN061998.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061998.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061998.D (-2895) (-)





#71

Bromoform

Concen: 0.421 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

TT101D1-20200615DL

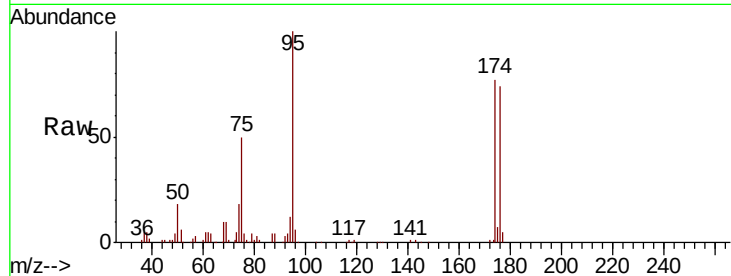
Tot Ion:173 Resp: 567

Ion Ratio Lower Upper

173 100

175 1066.8 23.9 71.7#

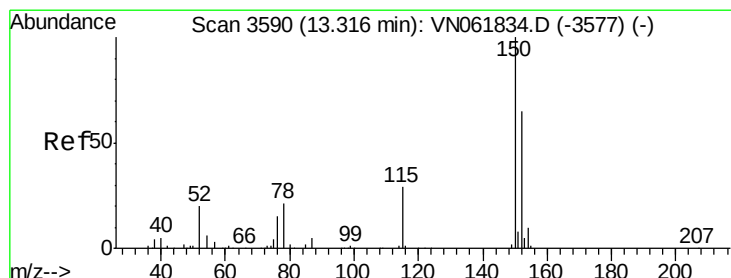
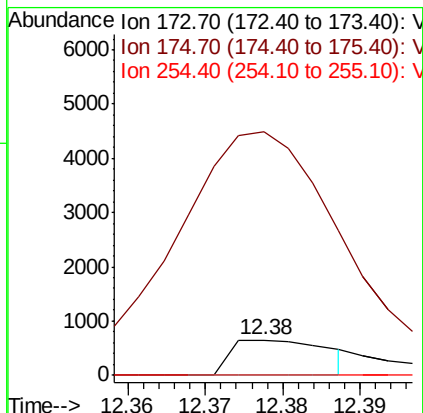
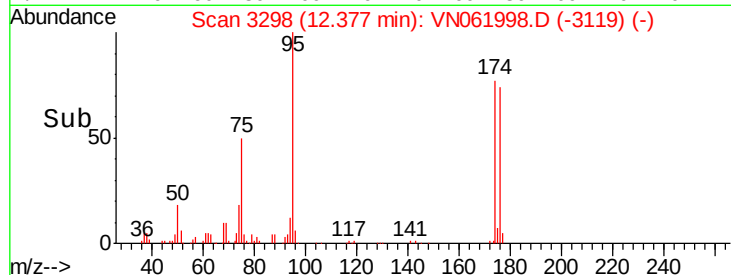
254 0.0 0.0 0.0



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# 3590

Delta R.T. -0.00 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

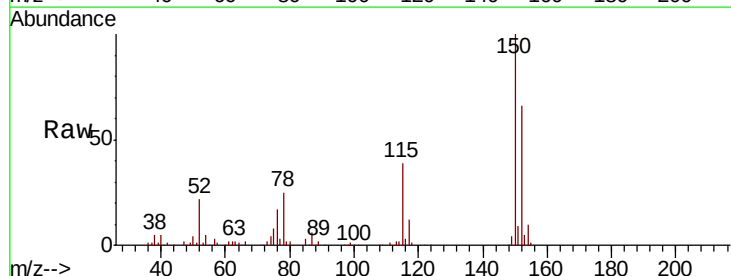
Tgt Ion:152 Resp: 106018

Ion Ratio Lower Upper

152 100

115 59.0 29.1 87.3

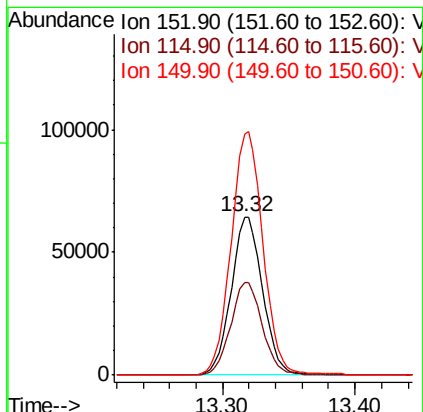
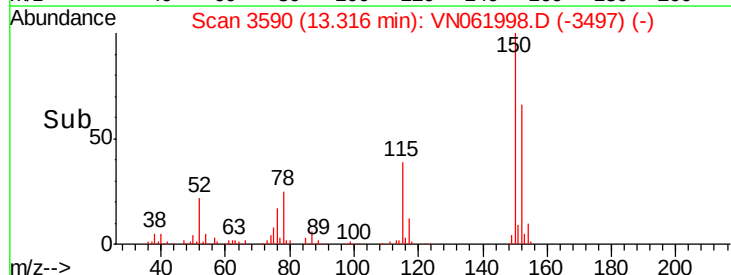
150 156.3 0.0 347.6

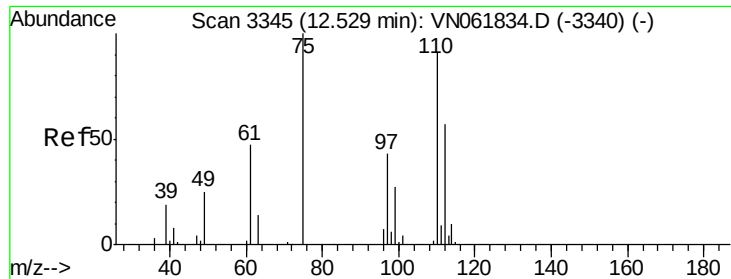


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.384 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

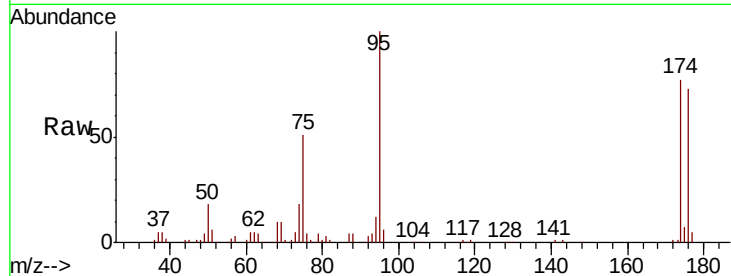
TT101D1-20200615DL

Tot Ion: 75 Resp: 56997

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061998.D (-3297) (-)

Ion 77.00 (76.70 to 77.70): VN061998.D (-3297) (-)

12.37

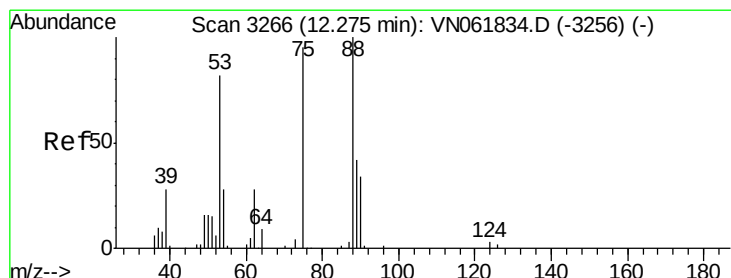
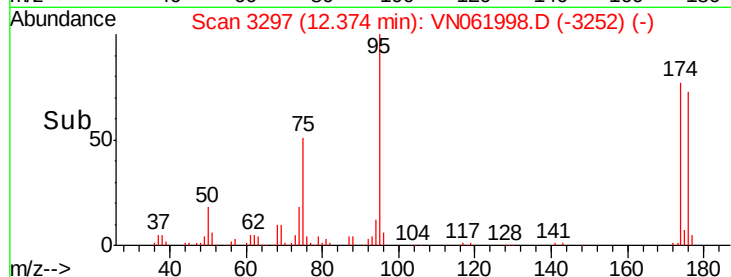
30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 74.688 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061998.D

Acq: 22 Jun 2020 14:41

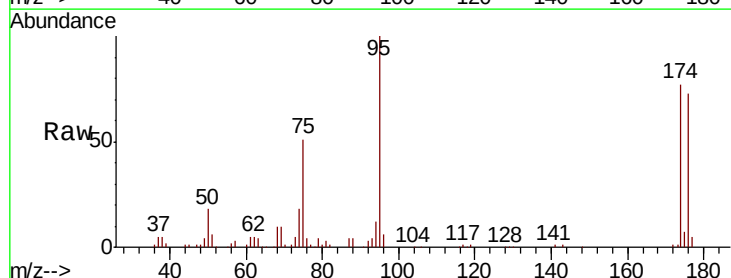
Tgt Ion: 75 Resp: 56997

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): VN061998.D (-3297) (-)

Ion 53.00 (52.70 to 53.70): VN061998.D (-3297) (-)

Ion 88.90 (88.60 to 89.60): VN061998.D (-3297) (-)

12.37

40000

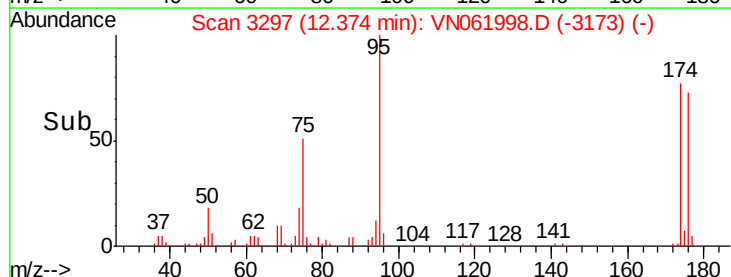
30000

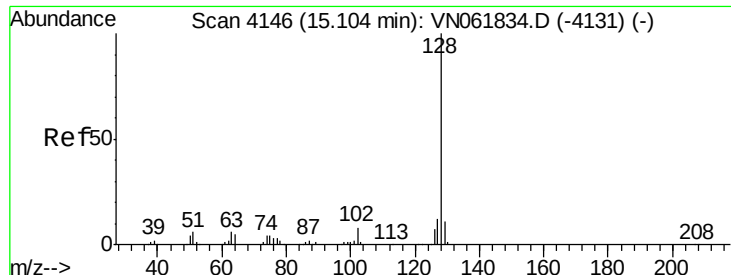
20000

10000

0

Time--> 12.30 12.35 12.40 12.45





#95
Naphthalene
Concen: 3.603 ug/l
RT: 15.11 min Scan# 4149
Delta R.T. 0.01 min
Lab File: VN061998.D
Acq: 22 Jun 2020 14:41

Instrument :
MSVOA_N
ClientSampleId :
TT101D1-20200615DL

Tot Ion:128 Resp: 677
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#

