

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060611.D
 Acq On : 18 Mar 2020 23:36
 Operator : JC/MD
 Sample : L1969-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL001-200317

Quant Time: Mar 19 05:06:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	197225	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	327551	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	304356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136060	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	127351	47.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.08%	
35) Dibromofluoromethane	7.57	113	97921	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
50) Toluene-d8	10.08	98	405917	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.40	95	149309	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	

Target Compounds

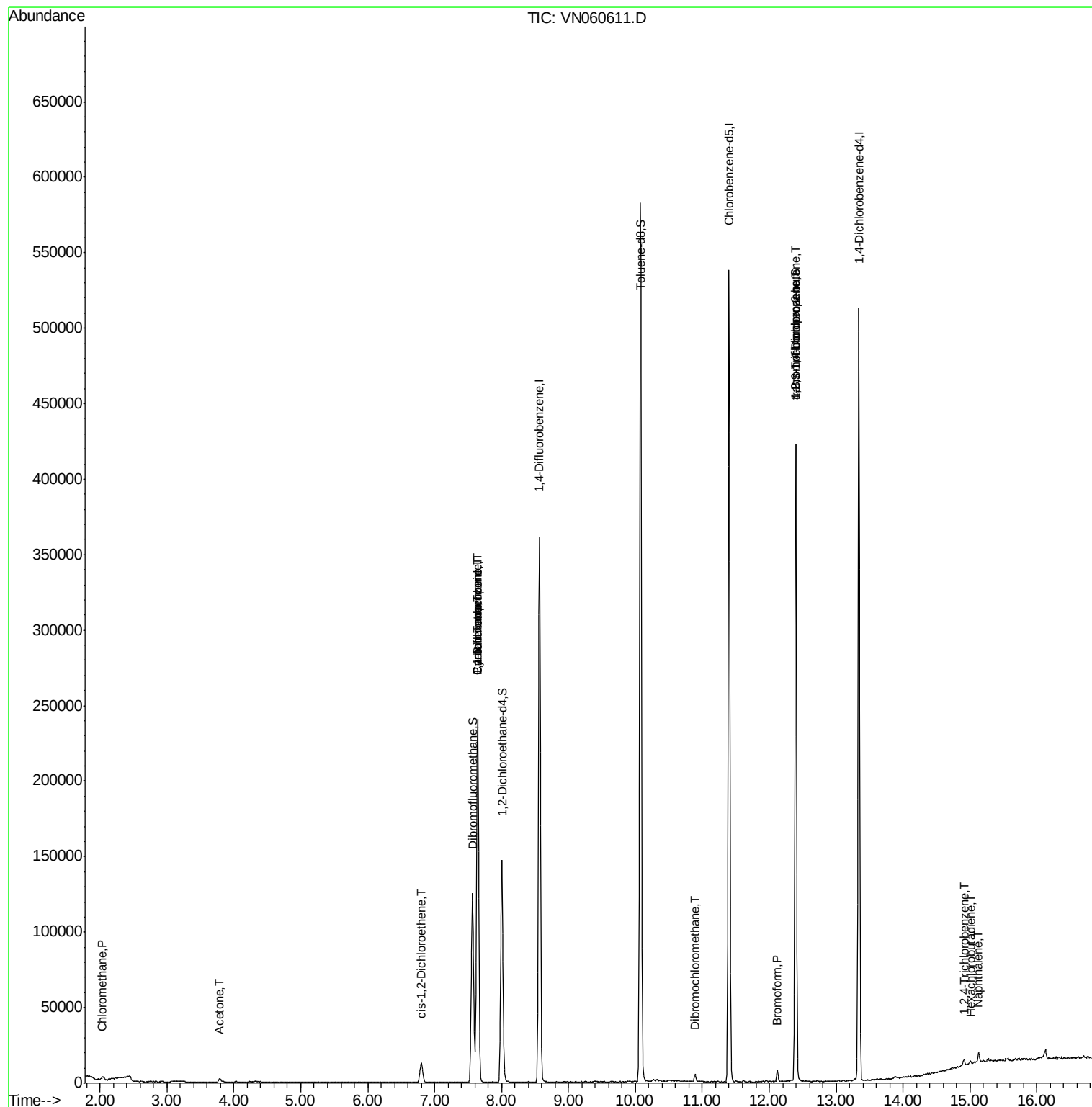
						Qvalue
3) Chloromethane	2.04	50	1072	0.301	ug/l #	87
16) Acetone	3.79	43	4481	4.672	ug/l	96
27) cis-1,2-Dichloroethene	6.80	96	9066	3.506	ug/l	89
31) Cyclohexane	7.64	56	4206	0.965	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14937	4.709	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18724	6.587	ug/l #	17
60) Dibromochloromethane	10.89	129	3002	1.306	ug/l	100
71) Bromoform	12.12	173	3821	3.714	ug/l #	98
76) 1,2,3-Trichloropropane	12.40	75	75028	25.555	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	75028	65.634	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.90	180	1504	0.590	ug/l #	90
94) Hexachlorobutadiene	15.01	225	499	0.399	ug/l	85
95) Naphthalene	15.13	128	5933	0.774	ug/l	98

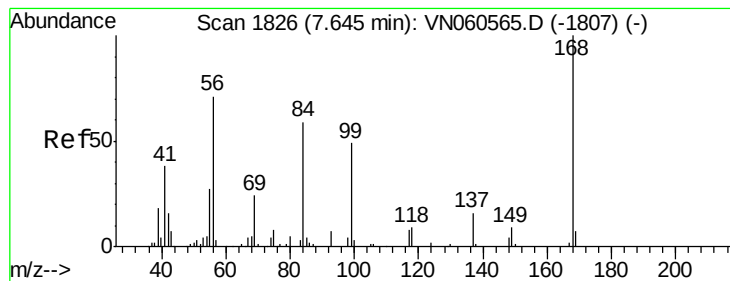
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

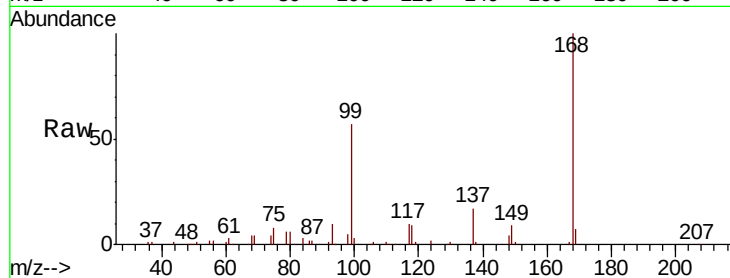
OUTFALL001-200317

Tot Ion:168 Resp: 197225

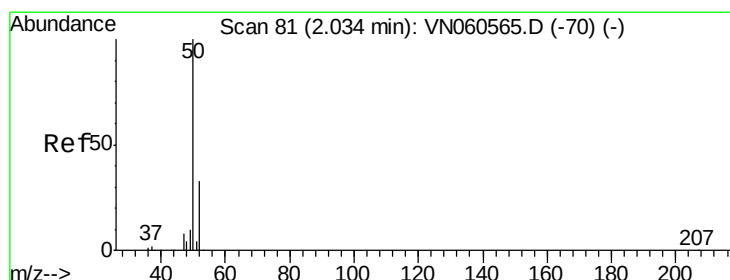
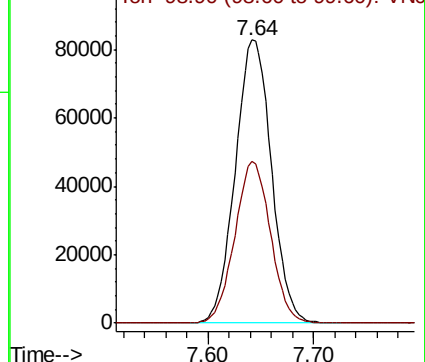
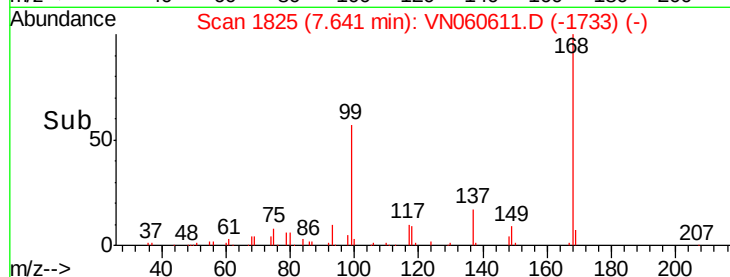
Ion Ratio Lower Upper

168 100

99 57.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060611.D (-1733) (-)



#3

Chloromethane

Concen: 0.301 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060611.D

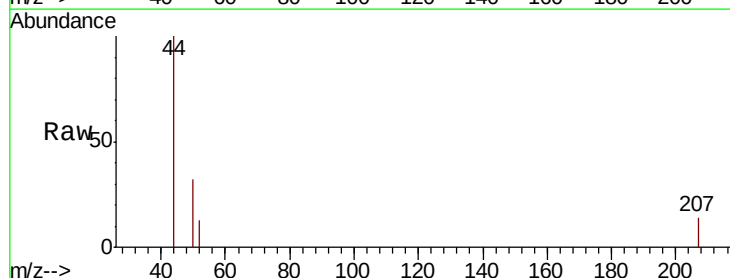
Acq: 18 Mar 2020 23:36

Tgt Ion: 50 Resp: 1072

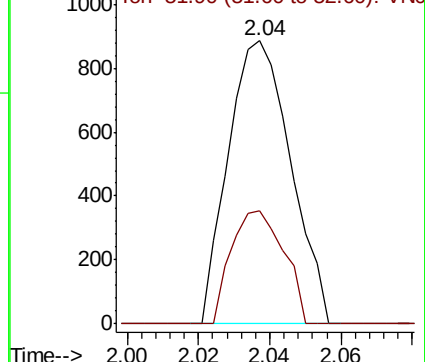
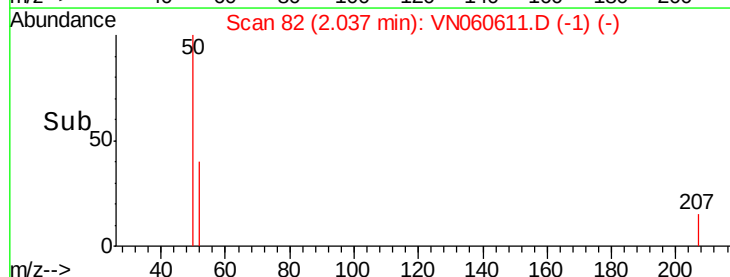
Ion Ratio Lower Upper

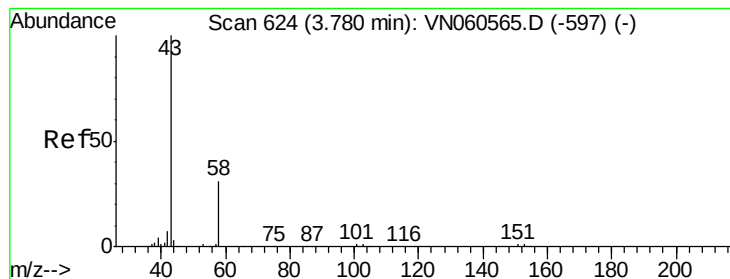
50 100

52 40.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VN060611.D (-1) (-)





#16

Acetone

Concen: 4.672 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

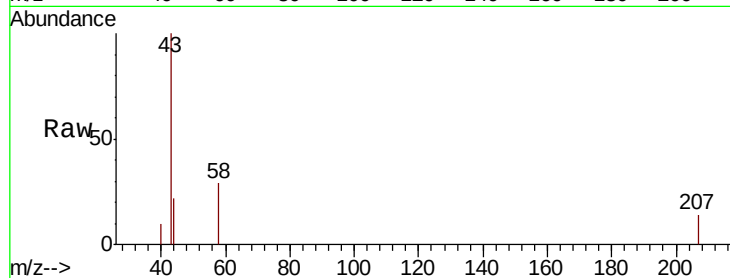
OUTFALL001-200317

Tot Ion: 43 Resp: 4481

Ion Ratio Lower Upper

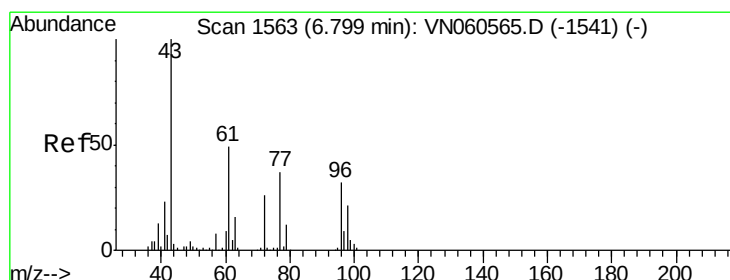
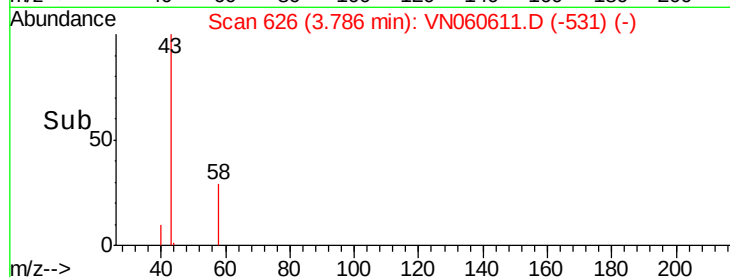
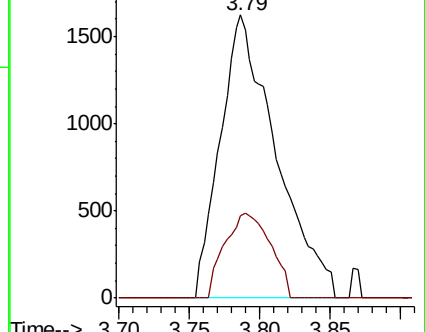
43 100

58 29.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060611.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060611.D (-597) (-)



#27

cis-1,2-Dichloroethene

Concen: 3.506 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

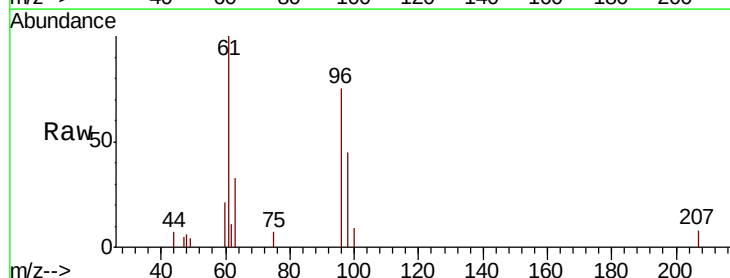
Tgt Ion: 96 Resp: 9066

Ion Ratio Lower Upper

96 100

61 133.8 0.0 305.6

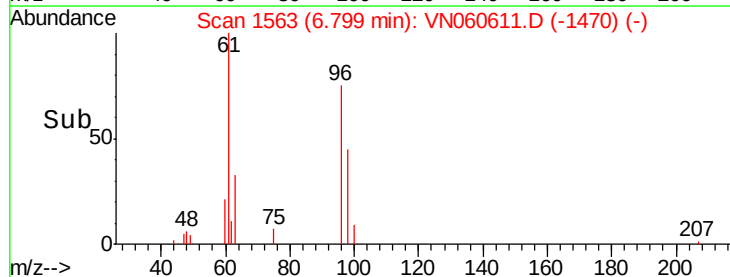
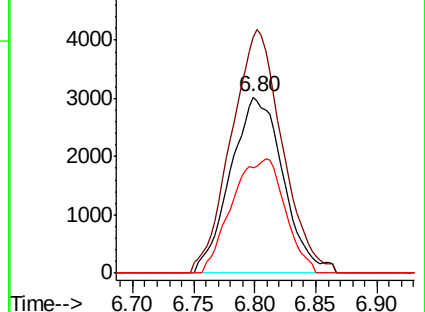
98 65.4 0.0 127.6

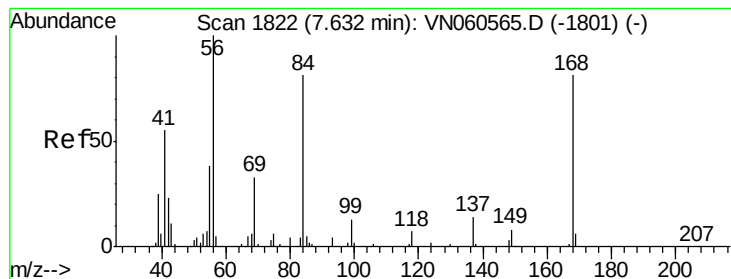


Abundance Ion 95.90 (95.60 to 96.60): VN060611.D (-1470) (-)

Ion 60.90 (60.60 to 61.60): VN060611.D (-1470) (-)

Ion 97.90 (97.60 to 98.60): VN060611.D (-1470) (-)





#31

Cyclohexane

Concen: 0.965 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-200317

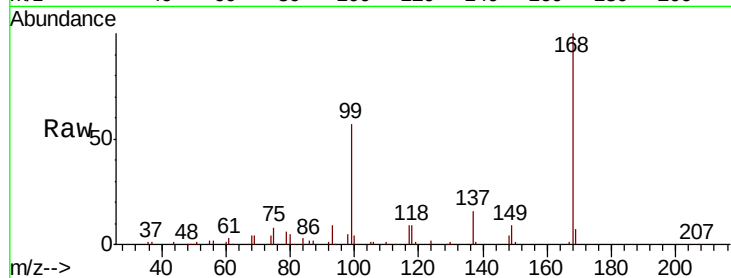
Tot Ion: 56 Resp: 4206

Ion Ratio Lower Upper

56 100

69 178.8 26.6 40.0#

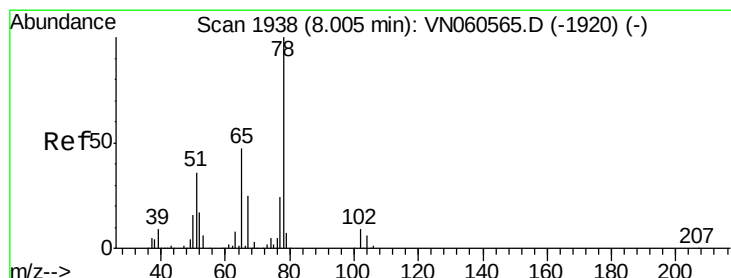
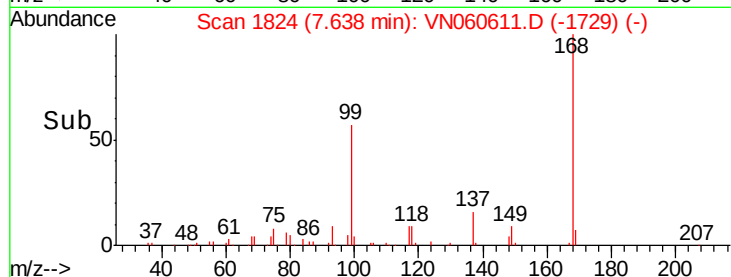
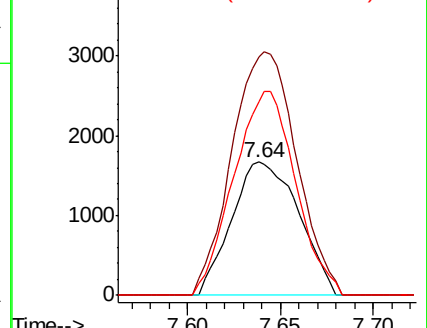
84 145.1 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060611.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN060611.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN060611.D (-1801) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.037 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060611.D

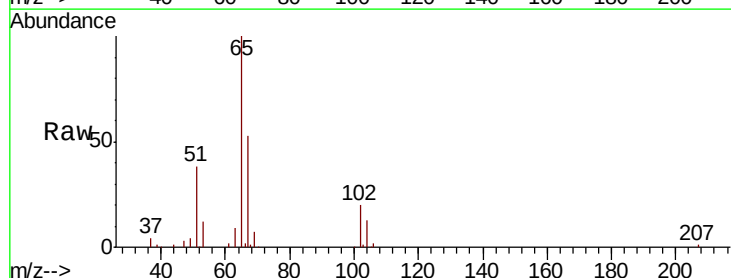
Acq: 18 Mar 2020 23:36

Tgt Ion: 65 Resp: 127351

Ion Ratio Lower Upper

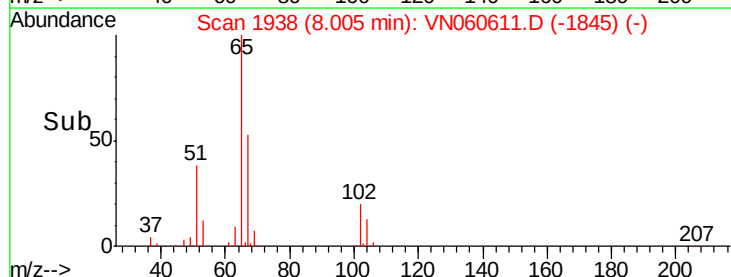
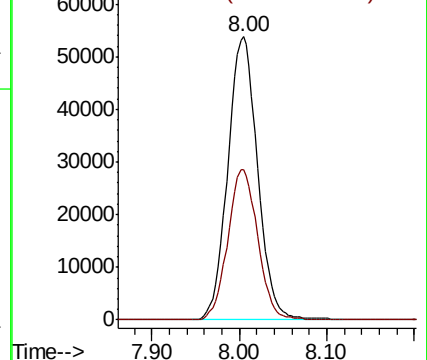
65 100

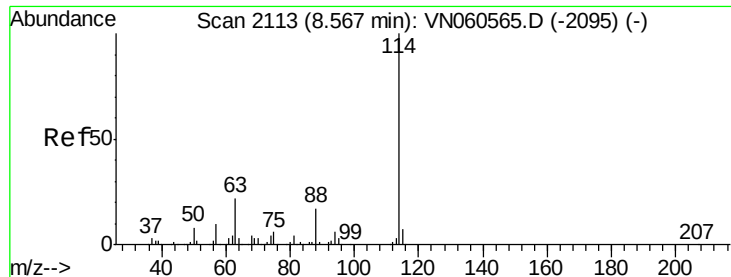
67 53.2 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060611.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060611.D (-1920) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-200317

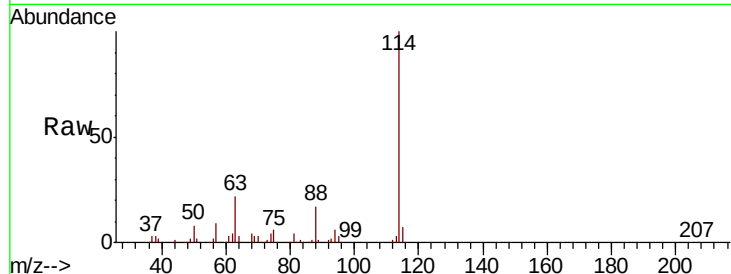
Tot Ion:114 Resp: 327551

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

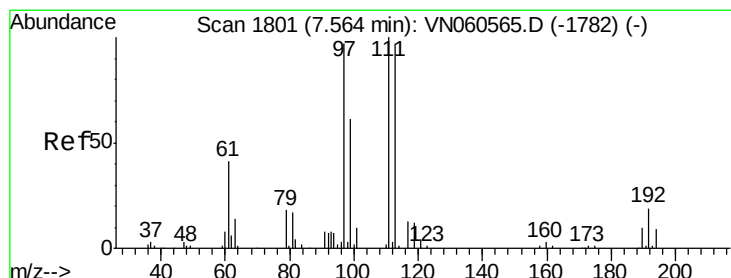
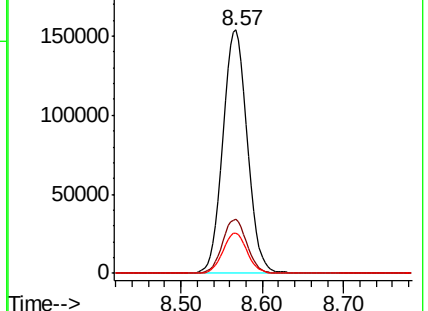
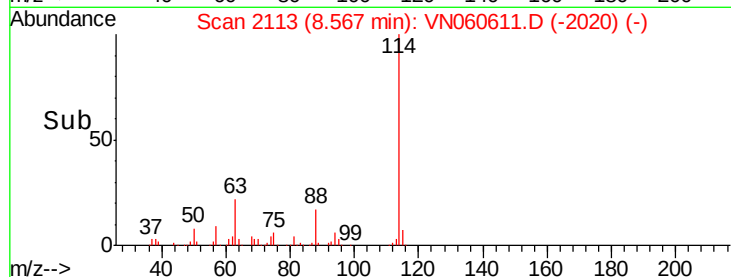
88 16.6 0.0 33.0



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: 49.440 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

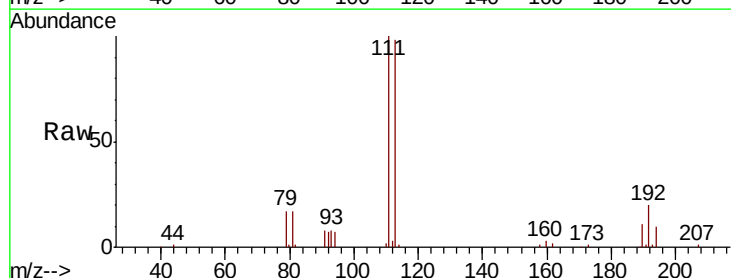
Tgt Ion:113 Resp: 97921

Ion Ratio Lower Upper

113 100

111 101.6 82.9 124.3

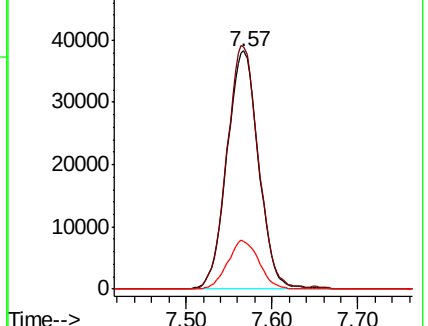
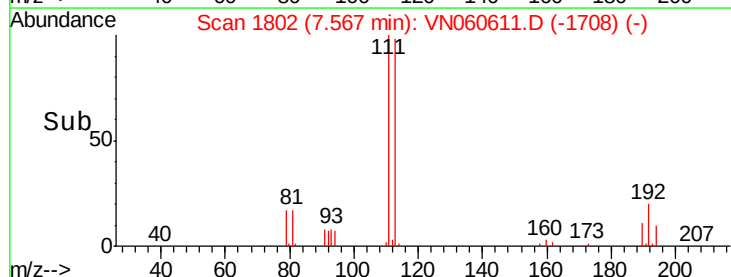
192 20.1 15.8 23.8

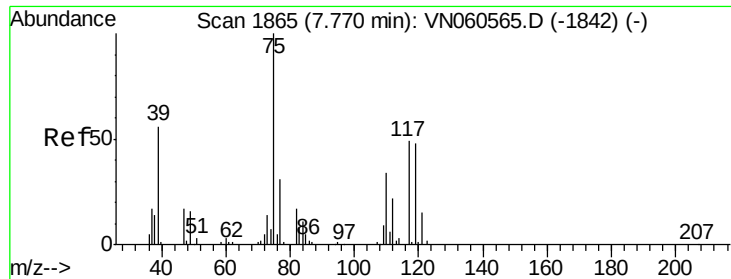


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

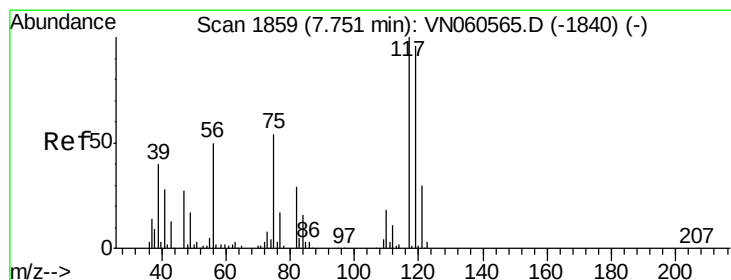
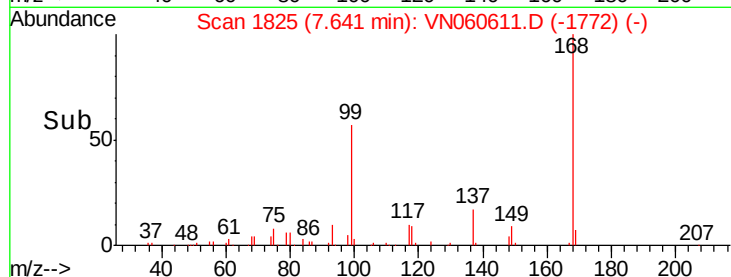
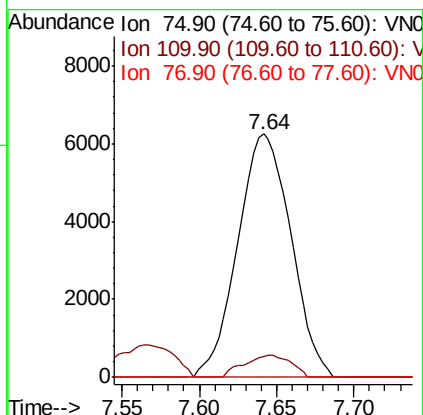
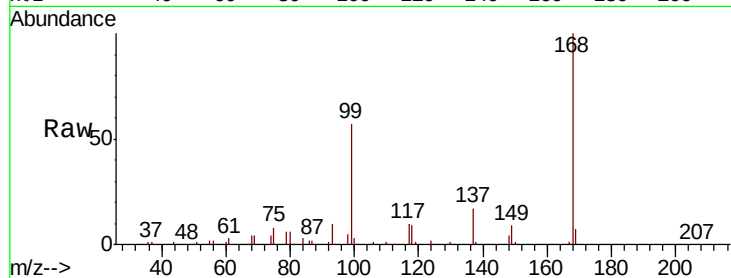




#36
 1,1-Dichloropropene
 Concen: 4.709 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060611.D
 Acq: 18 Mar 2020 23:36

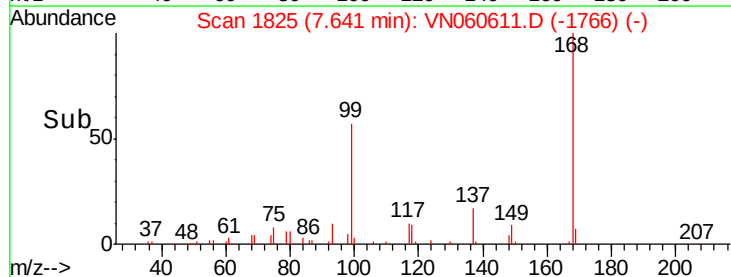
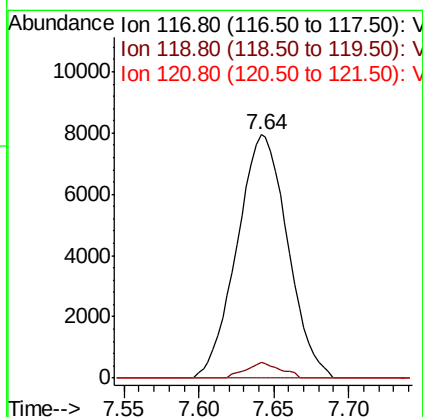
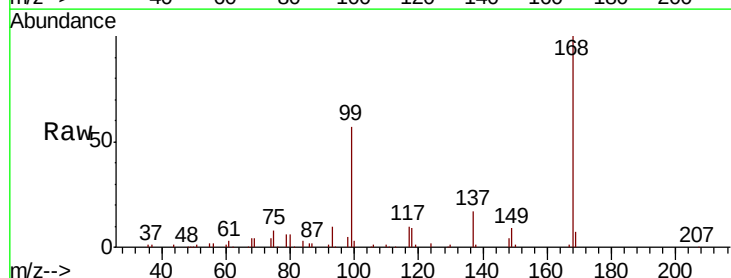
Instrument :
 MSVOA_N
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 OUTFALL001-200317

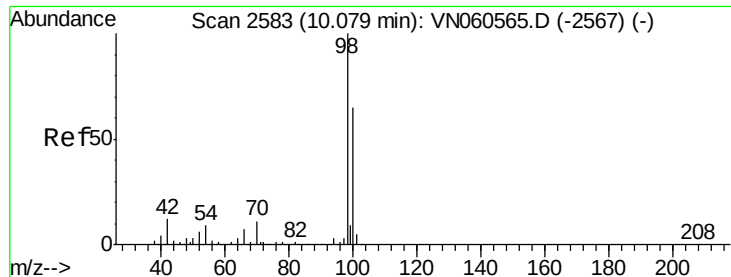
Tot Ion	75	Resp	14937
Ion Ratio	Lower	Upper	
75	100		
110	8.0	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.587 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060611.D
 Acq: 18 Mar 2020 23:36

Tgt Ion	117	Resp	18724
Ion Ratio	Lower	Upper	
117	100		
119	6.3	76.2	114.2#
121	0.0	23.7	35.5#

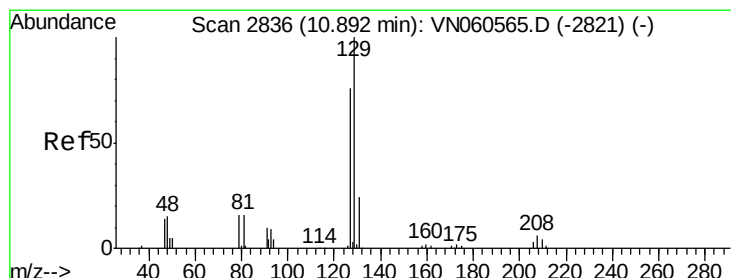
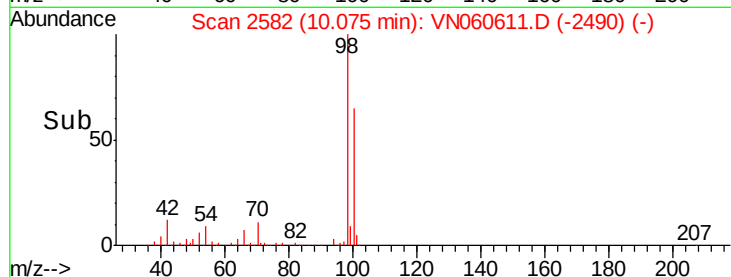
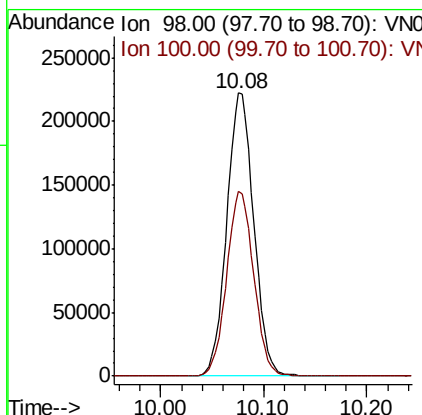
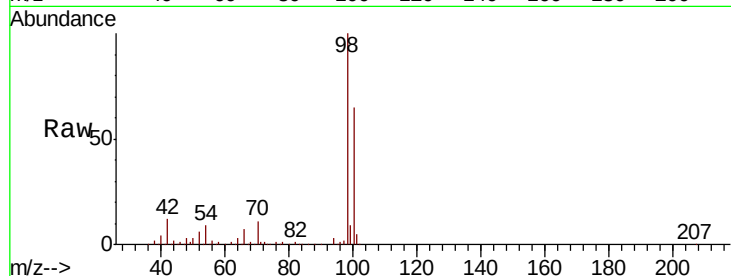




#50
Toluene-d8
Concen: 50.175 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060611.D
Acq: 18 Mar 2020 23:36

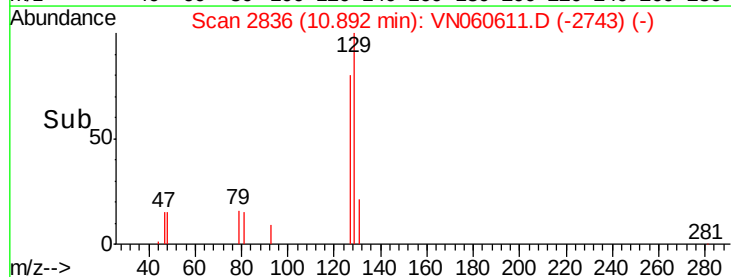
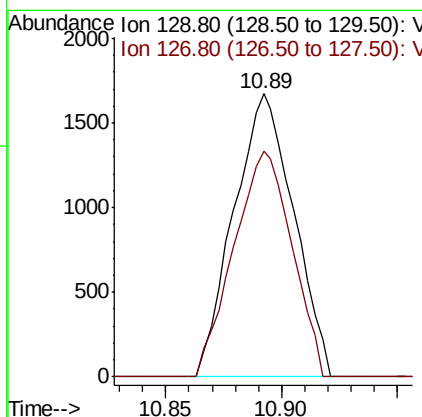
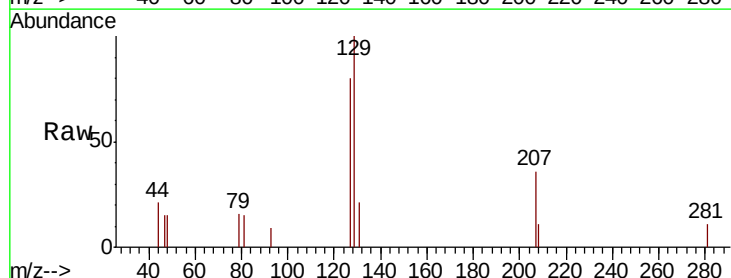
Instrument :
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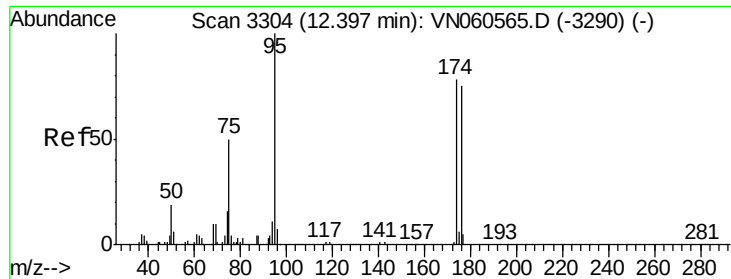
Tot Ion: 98 Resp: 405917
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8



#60
Dibromochloromethane
Concen: 1.306 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN060611.D
Acq: 18 Mar 2020 23:36

Tgt Ion: 129 Resp: 3002
Ion Ratio Lower Upper
129 100
127 77.3 38.5 115.5





#62

4-Bromofluorobenzene

Concen: 50.360 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-200317

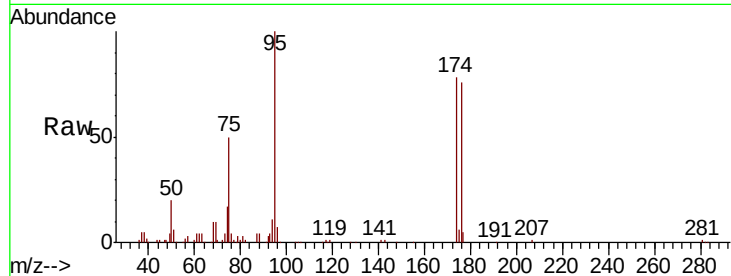
Tot Ion: 95 Resp: 149309

Ion Ratio Lower Upper

95 100

174 77.9 0.0 157.6

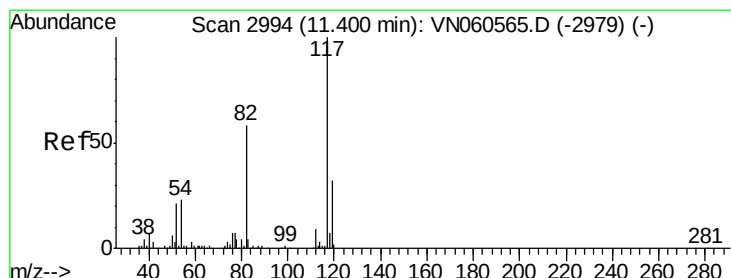
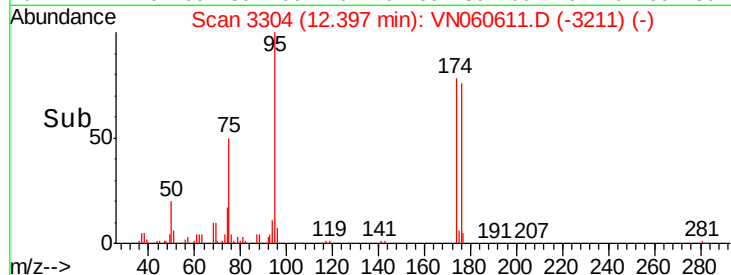
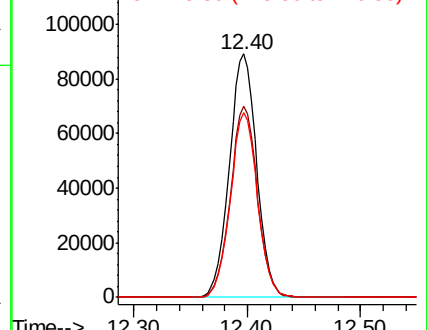
176 75.3 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060611.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060611.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060611.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

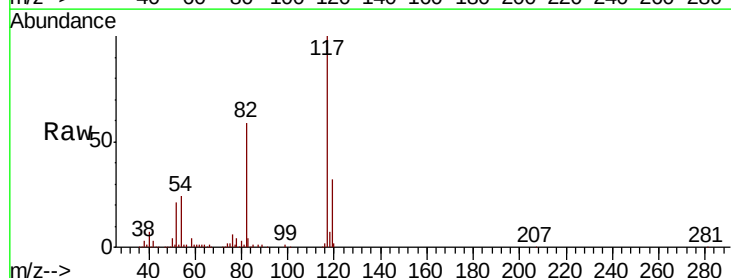
Tgt Ion: 117 Resp: 304356

Ion Ratio Lower Upper

117 100

82 58.5 46.7 70.1

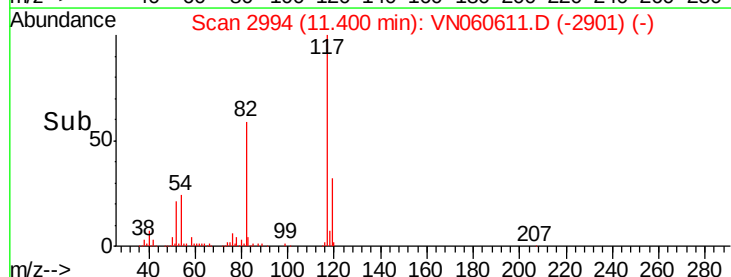
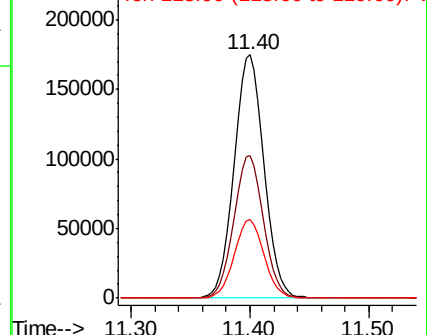
119 32.1 25.5 38.3

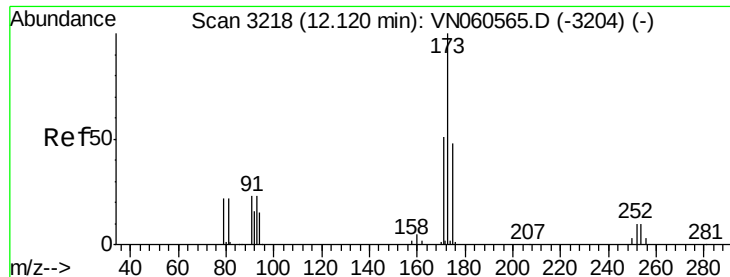


Abundance Ion 116.90 (116.60 to 117.60): VN060611.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060611.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060611.D (-2901) (-)





#71

Bromoform

Concen: 3.714 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-200317

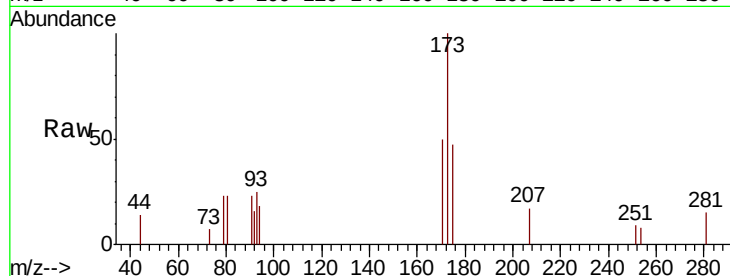
Tot Ion:173 Resp: 3821

Ion Ratio Lower Upper

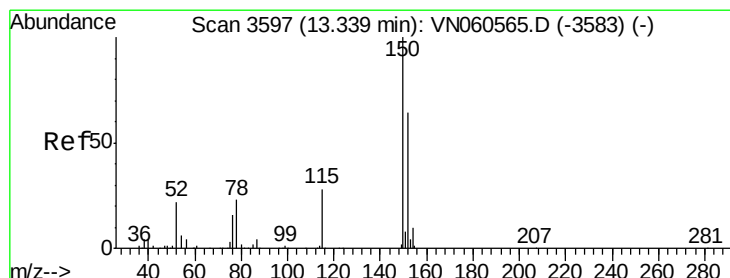
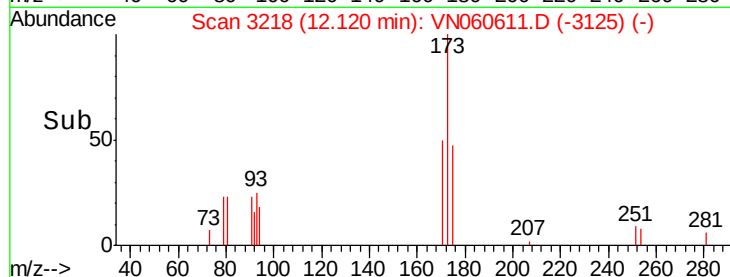
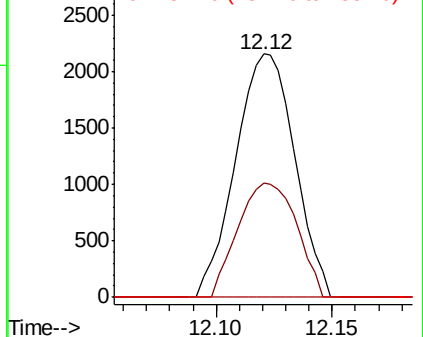
173 100

175 46.6 24.1 72.4

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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

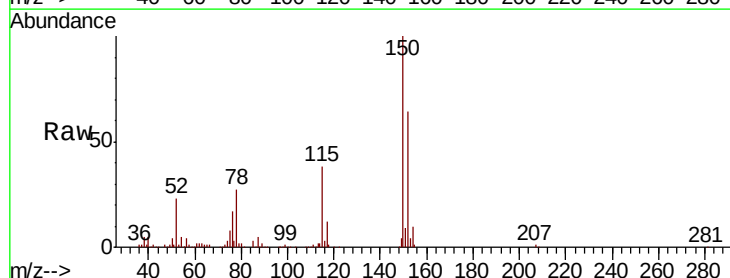
Tgt Ion:152 Resp: 136060

Ion Ratio Lower Upper

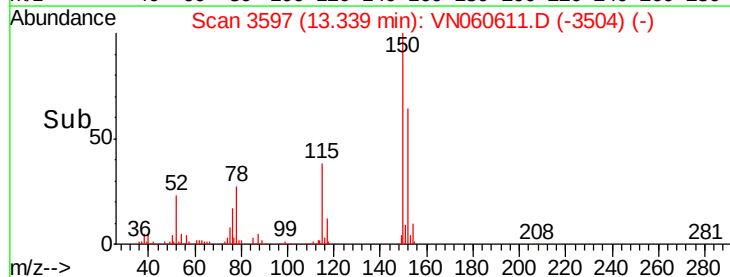
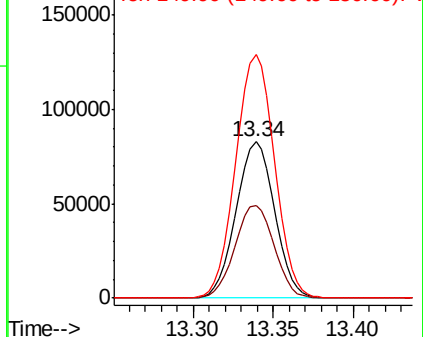
152 100

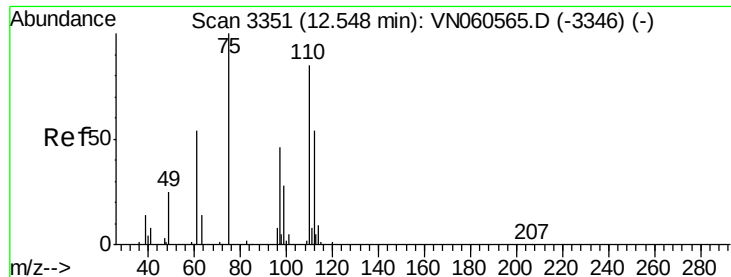
115 60.0 30.2 90.6

150 157.2 0.0 350.2



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: 25.555 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

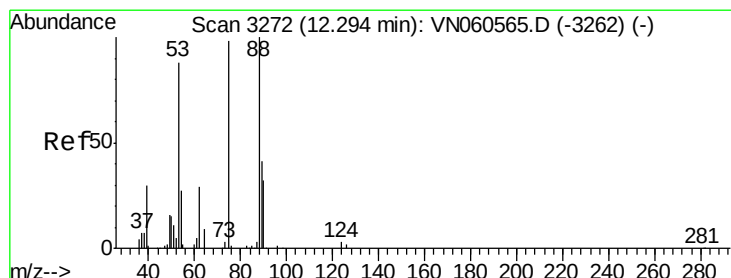
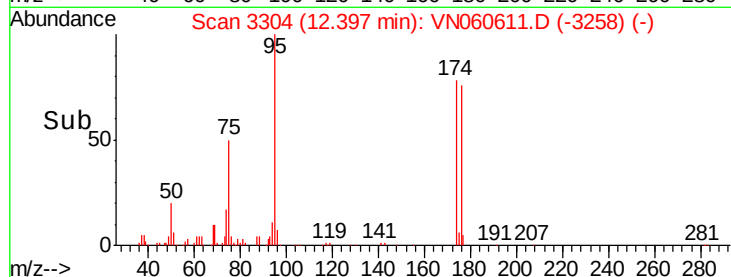
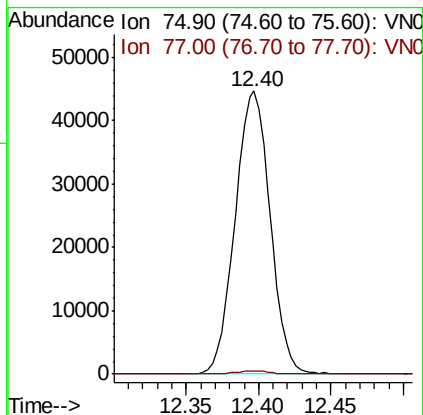
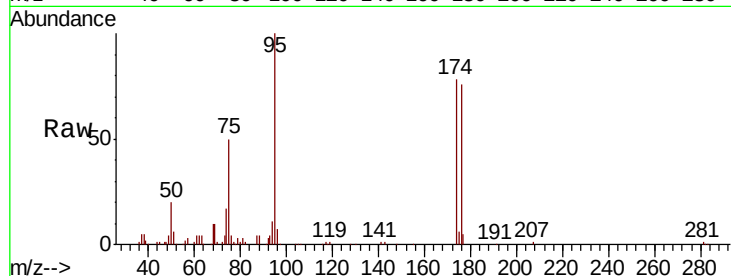
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Tot Ion: 75 Resp: 75028

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.634 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

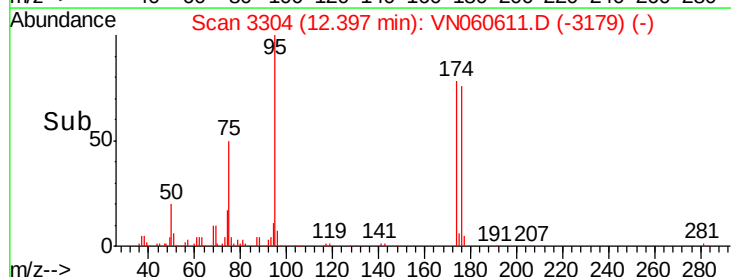
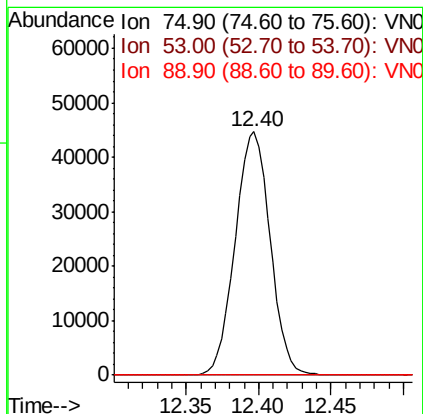
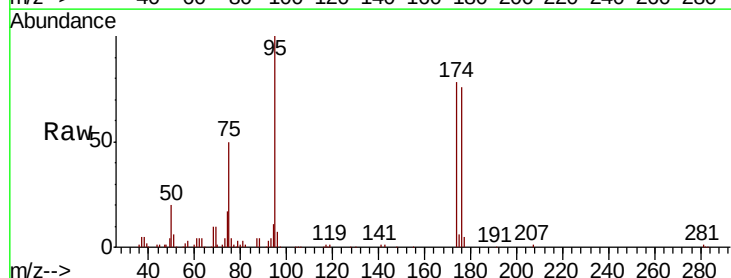
Tgt Ion: 75 Resp: 75028

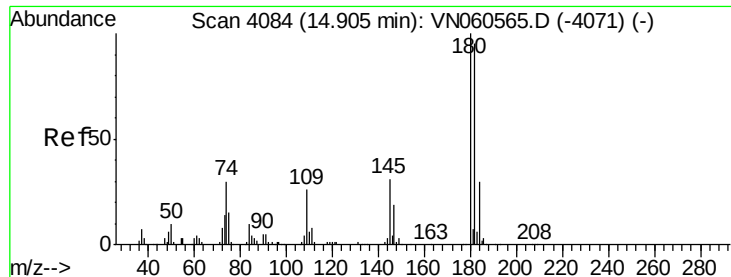
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

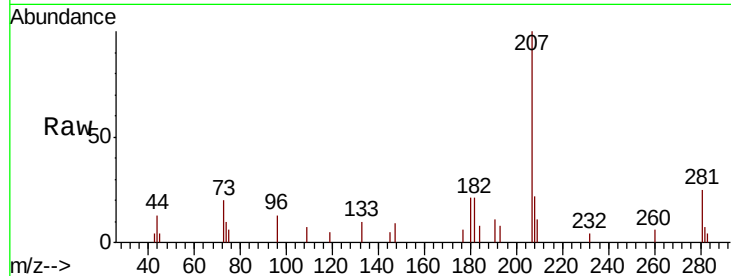




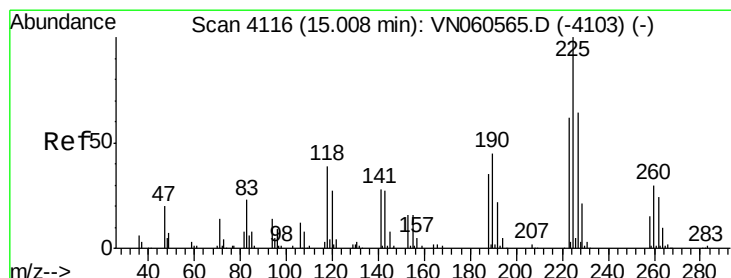
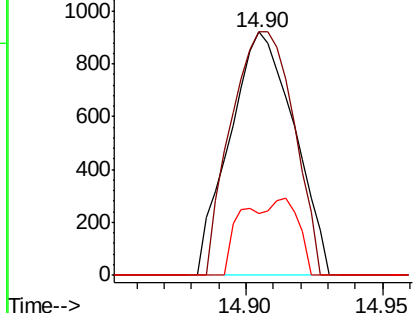
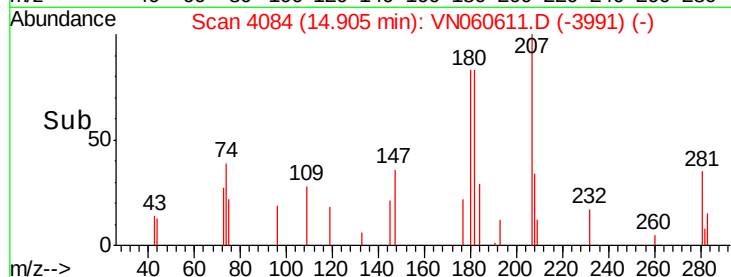
#93
 1,2,4-Trichlorobenzene
 Concen: 0.590 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN060611.D
 Acq: 18 Mar 2020 23:36

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL001-200317

Tot Ion:180 Resp: 1504
 Ion Ratio Lower Upper
 180 100
 182 97.5 47.9 143.8
 145 11.8 15.4 46.2#

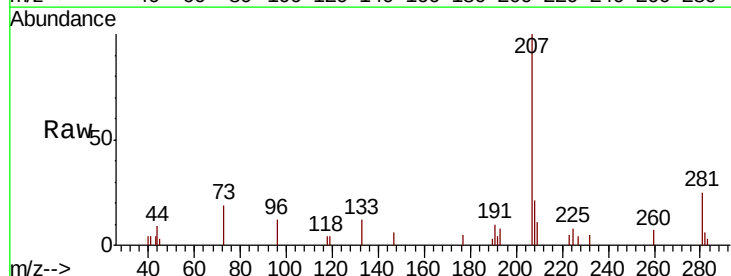


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

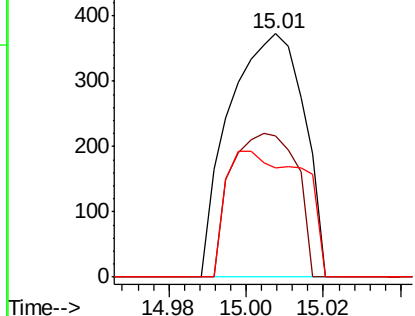
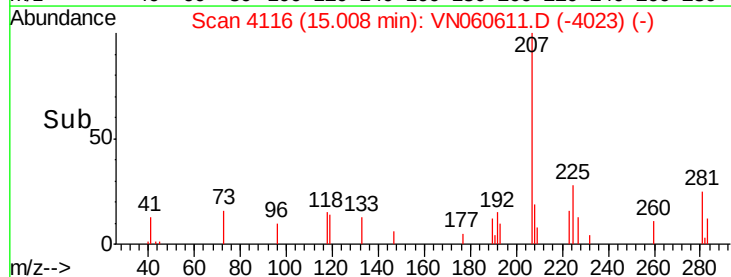


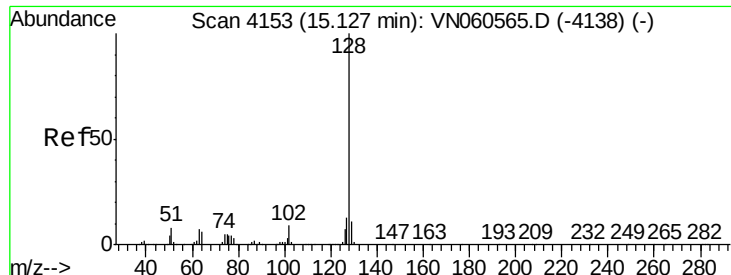
#94
 Hexachlorobutadiene
 Concen: 0.399 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN060611.D
 Acq: 18 Mar 2020 23:36

Tgt Ion:225 Resp: 499
 Ion Ratio Lower Upper
 225 100
 223 51.9 31.6 95.0
 227 53.1 32.3 96.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.774 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN060611.D

Acq: 18 Mar 2020 23:36

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-200317

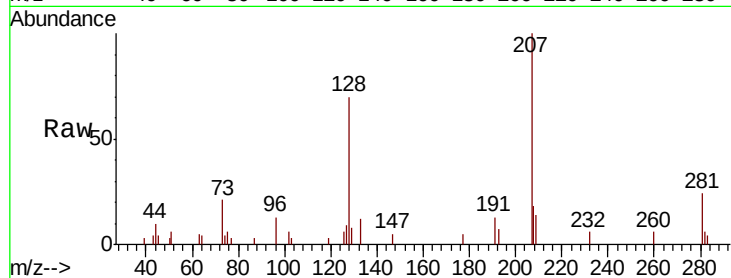
Tot Ion:128 Resp: 5933

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

129 9.3 8.8 13.2



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

