

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062220\
 Data File : VN062035.D
 Acq On : 23 Jun 2020 6:46
 Operator : JC/MD
 Sample : L3070-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 INF-SLUDGE

Quant Time: Jun 23 07:14:17 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	141621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	267217	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	261957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	97267	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	97864	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
35) Dibromofluoromethane	7.55	113	84411	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
50) Toluene-d8	10.06	98	338468	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
62) 4-Bromofluorobenzene	12.38	95	110493	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	19075	34.000	ug/l	99
18) Methyl Acetate	4.28	43	3548	2.197	ug/l #	84
20) Methylene Chloride	4.50	84	5636	3.083	ug/l	88
25) 2-Butanone	6.79	43	4503	5.501	ug/l	89
29) Tetrahydrofuran	7.18	42	390	0.724	ug/l #	48
31) Cyclohexane	7.62	56	2942	1.175	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	10832	4.444	ug/l #	47
37) Ethyl Acetate	6.79	43	4503	2.366	ug/l #	65
38) Carbon Tetrachloride	7.63	117	13814	5.723	ug/l #	17
43) Isopropyl Acetate	8.13	43	25449	7.934	ug/l #	88
48) Methyl methacrylate	9.15	41	1635	1.121	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	2883	1.521	ug/l #	85
54) cis-1,3-Dichloropropene	9.87	75	13028	4.319	ug/l #	68
56) Ethyl methacrylate	10.52	69	614	3.110	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1611	0.521	ug/l #	42
59) 2-Hexanone	10.74	43	20476	26.203	ug/l #	50
71) Bromoform	12.37	173	1061	0.755	ug/l #	1
74) N-amyl acetate	12.00	43	910	3.405	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	55433	29.029	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	55433	79.173	ug/l #	14
91) 1,2-Dichlorobenzene	13.63	146	1244	0.406	ug/l	92
95) Naphthalene	15.10	128	163	3.514	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062035.D

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Instrument :

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ClientSampleId :

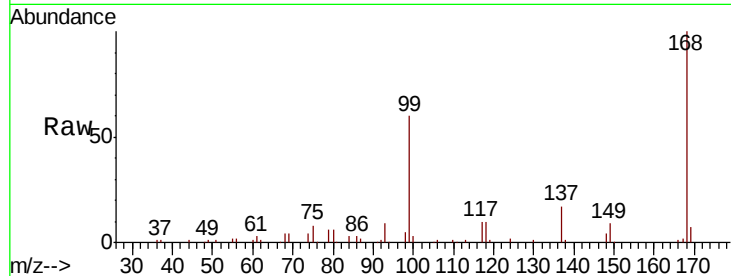
INF-SLUDGE

Tot Ion:168 Resp: 141621

Ion Ratio Lower Upper

168 100

99 59.6 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): VN061834.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-1801) (-)

7.63

60000

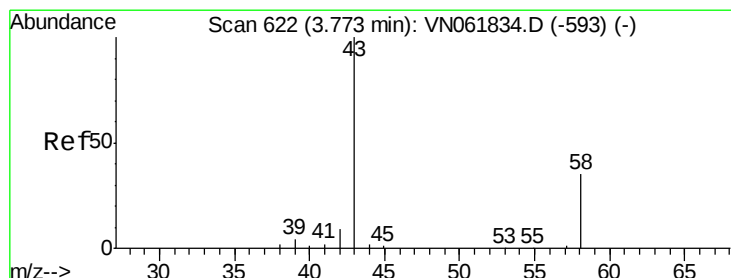
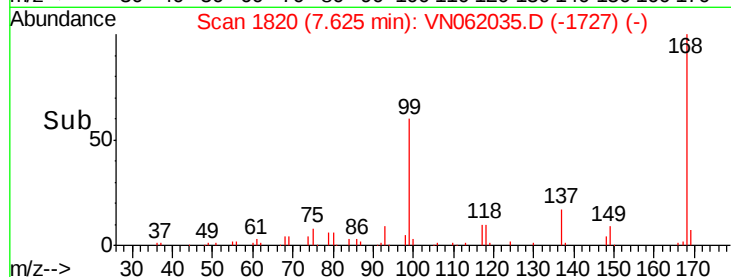
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 34.000 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062035.D

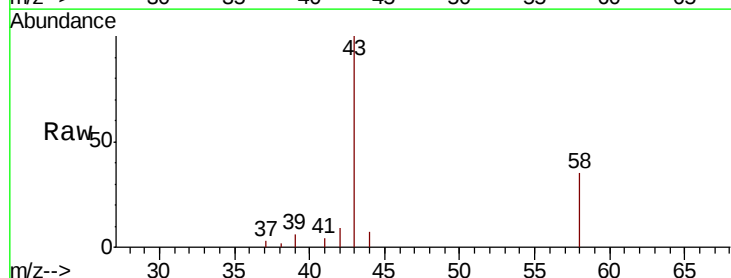
Acq: 23 Jun 2020 6:46

Tgt Ion: 43 Resp: 19075

Ion Ratio Lower Upper

43 100

58 35.3 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-593) (-)

3.78

8000

6000

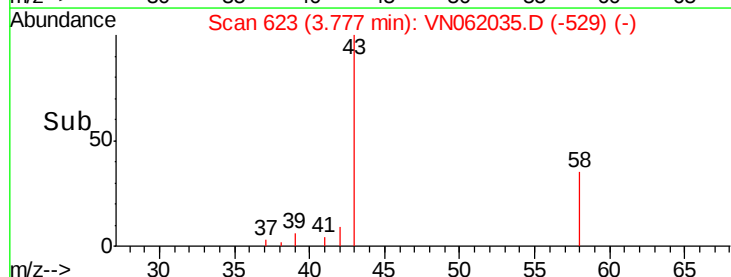
4000

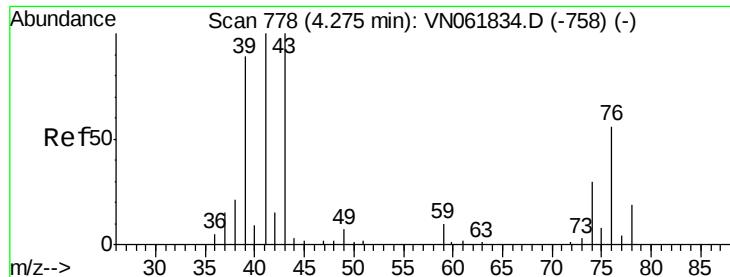
2000

0

3.70 3.80 3.90

Time-->

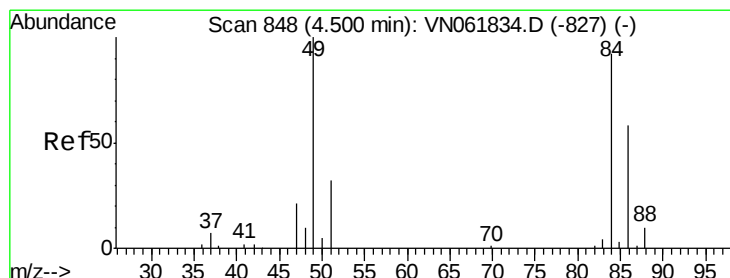
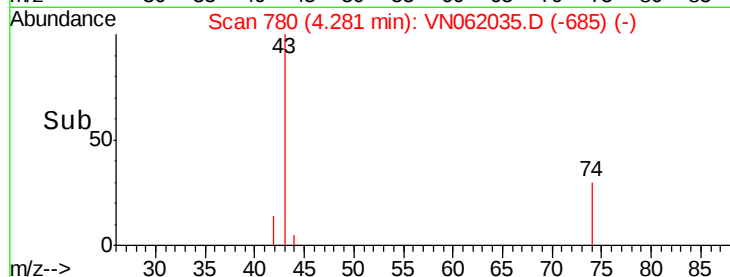
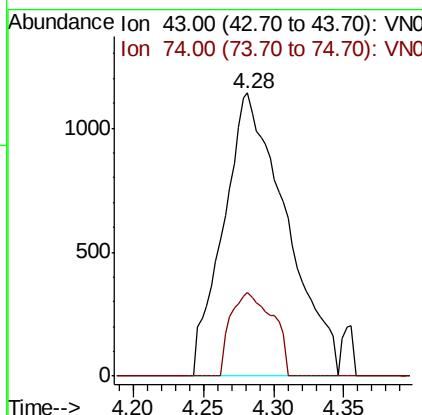
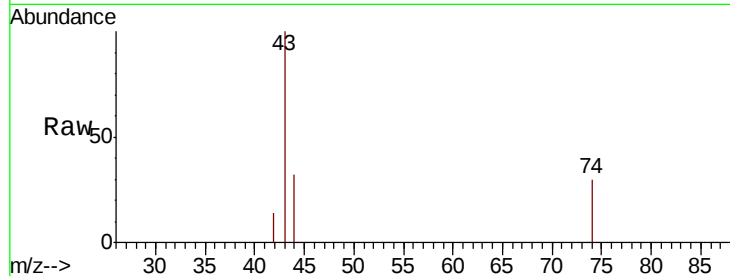




#18
Methyl Acetate
Concen: 2.197 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

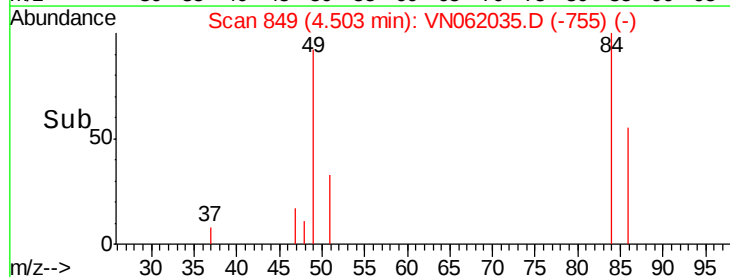
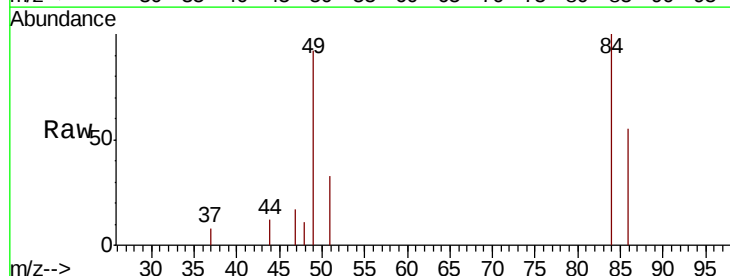
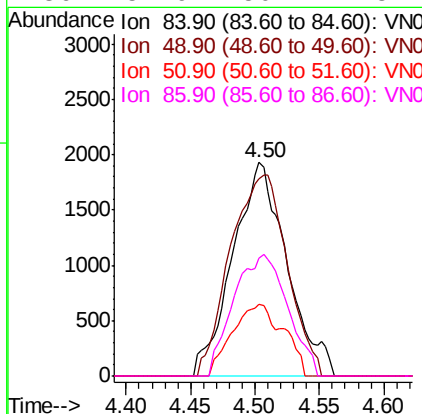
Instrument :
MSVOA_N
ClientSampled :
INF-SLUDGE

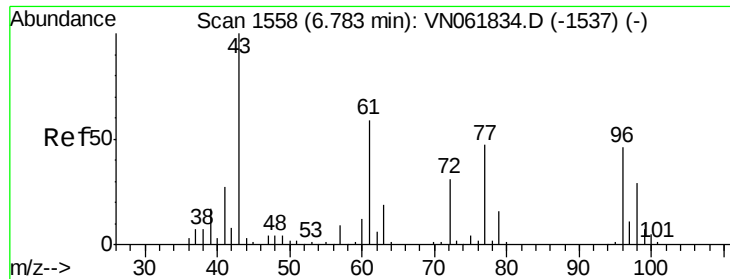
Tot Ion: 43 Resp: 3548
Ion Ratio Lower Upper
43 100
74 20.0 23.0 34.4#



#20
Methylene Chloride
Concen: 3.083 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

Tgt Ion: 84 Resp: 5636
Ion Ratio Lower Upper
84 100
49 92.3 87.0 130.4
51 33.3 27.8 41.6
86 54.9 50.2 75.2

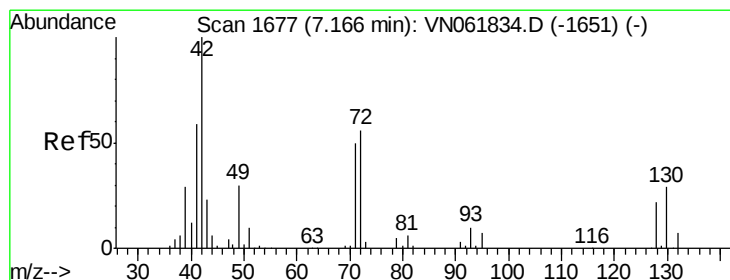
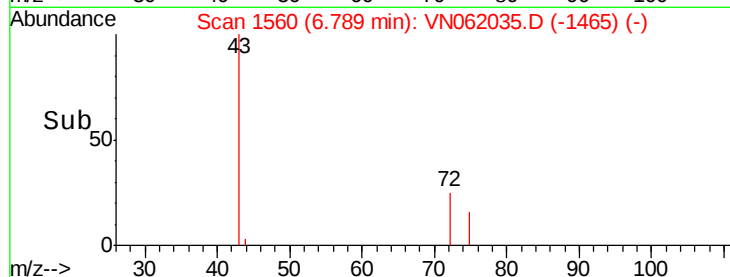
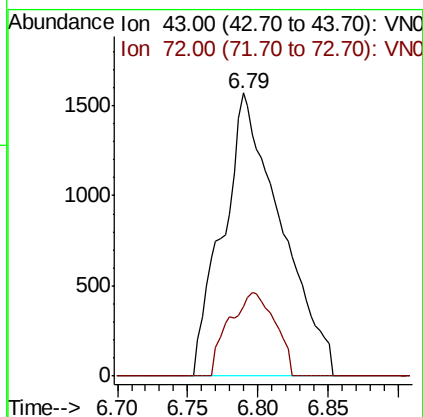
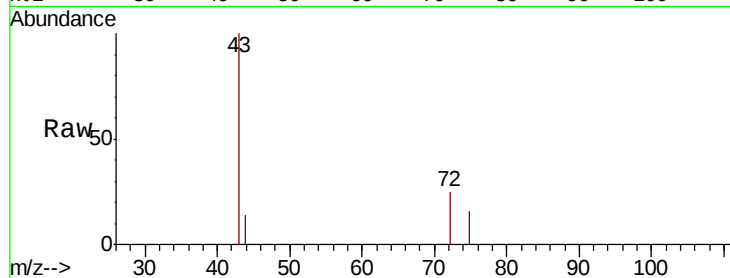




#25
2-Butanone
Concen: 5.501 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

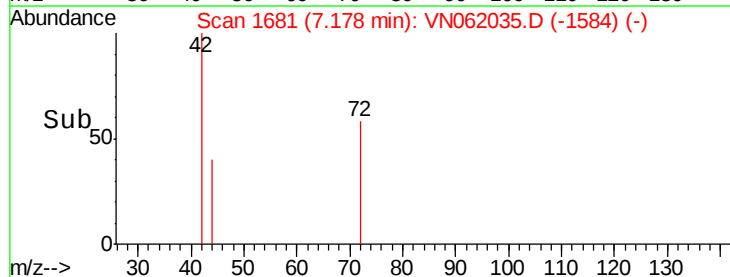
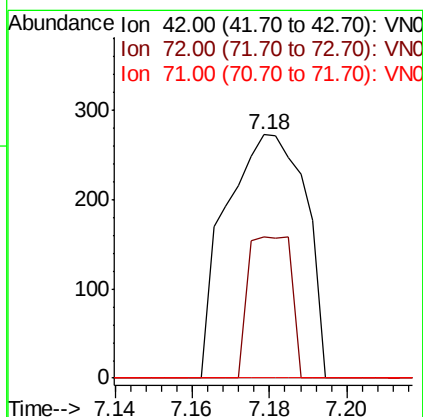
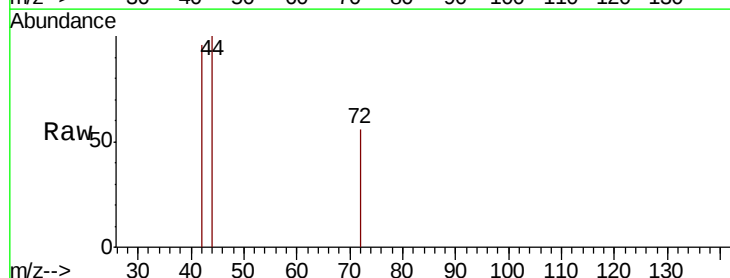
Instrument :
MSVOA_N
ClientSampled :
INF-SLUDGE

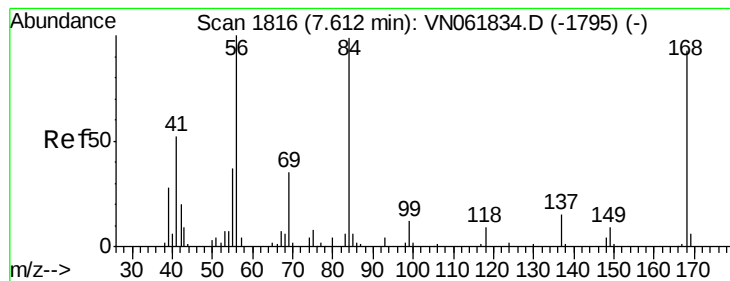
Tot Ion: 43 Resp: 4503
Ion Ratio Lower Upper
43 100
72 24.7 24.6 37.0



#29
Tetrahydrofuran
Concen: 0.724 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

Tgt Ion: 42 Resp: 390
Ion Ratio Lower Upper
42 100
72 31.0 44.0 66.0#
71 0.0 40.0 60.0#





#31

Cyclohexane

Concen: 1.175 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Instrument :

MSVOA_N

ClientSampleId :

INF-SLUDGE

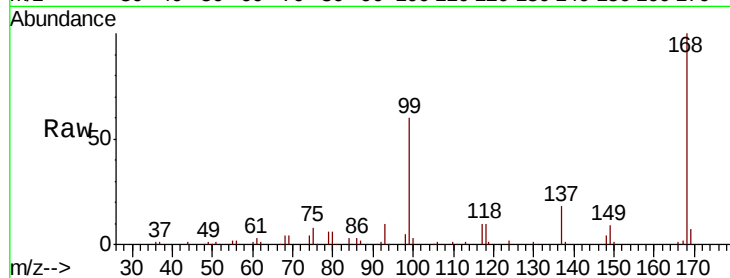
Tot Ion: 56 Resp: 2942

Ion Ratio Lower Upper

56 100

69 159.6 27.7 41.5#

84 133.2 79.1 118.7#

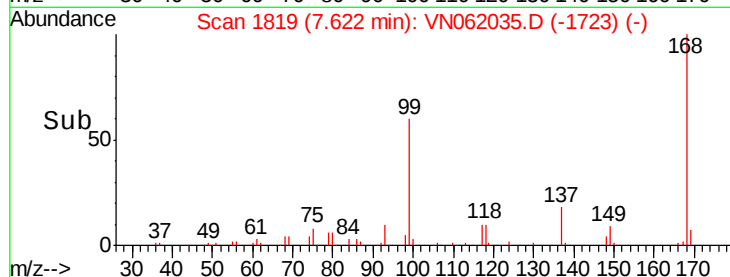


Abundance Ion 56.00 (55.70 to 56.70): VN061834.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN061834.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN061834.D (-1795) (-)

Time-->

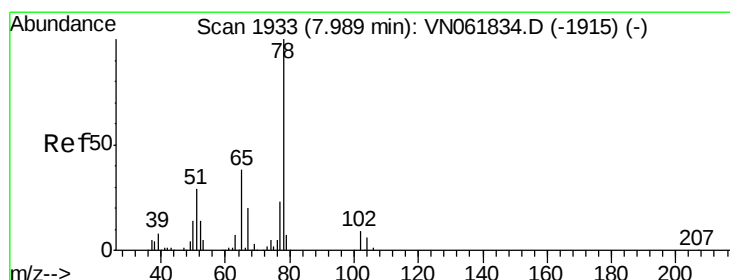


Abundance Ion 56.00 (55.70 to 56.70): VN062035.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN062035.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN062035.D (-1723) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.525 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062035.D

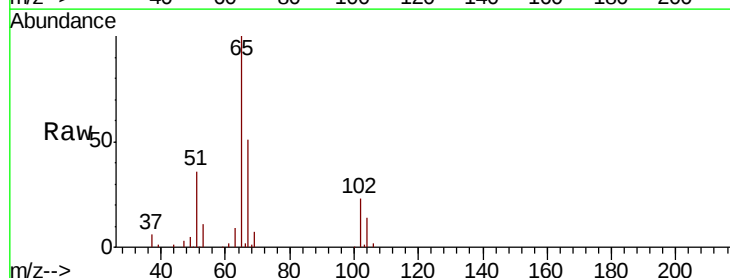
Acq: 23 Jun 2020 6:46

Tgt Ion: 65 Resp: 97864

Ion Ratio Lower Upper

65 100

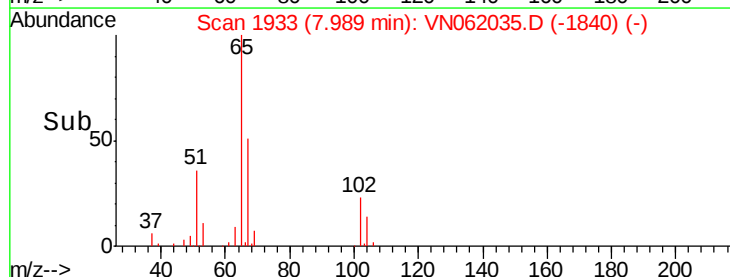
67 52.6 0.0 106.2



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

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

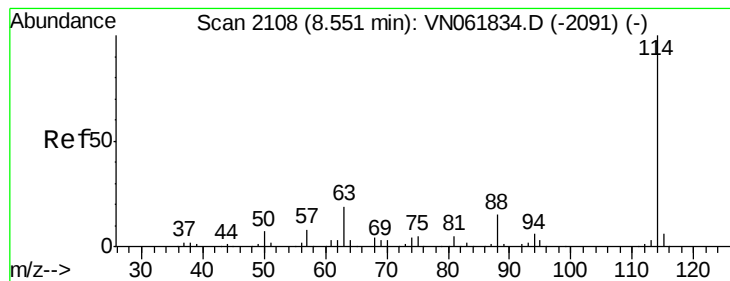
Time-->



Abundance Ion 64.90 (64.60 to 65.60): VN062035.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062035.D (-1840) (-)

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Instrument :

MSVOA_N

ClientSampleId :

INF-SLUDGE

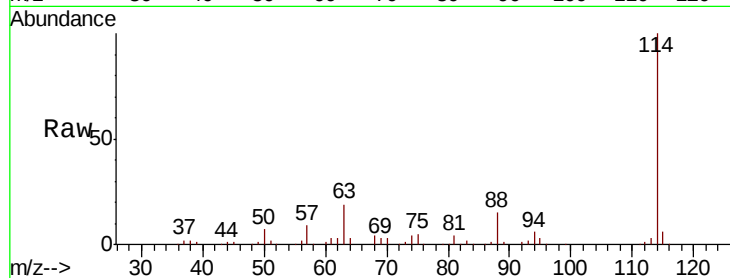
Tot Ion:114 Resp: 267217

Ion Ratio Lower Upper

114 100

63 19.2 0.0 37.6

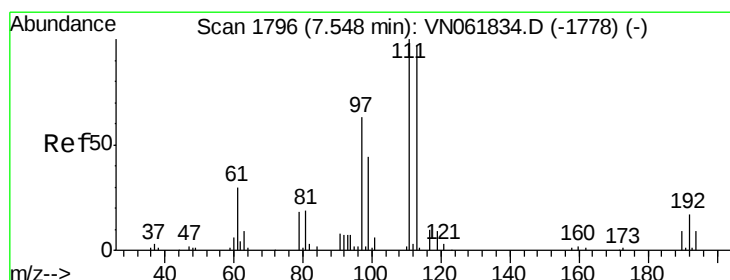
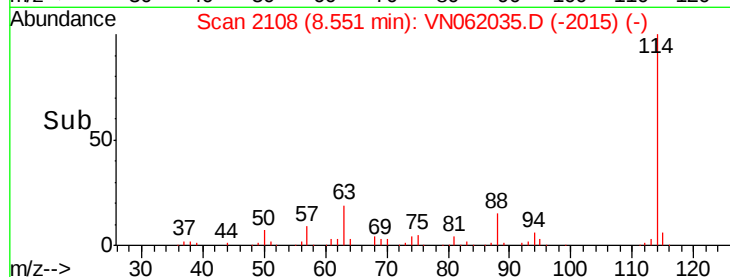
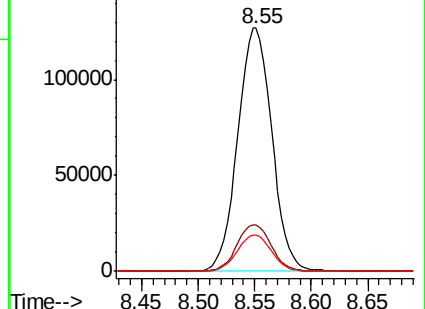
88 15.1 0.0 31.0



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: 49.377 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

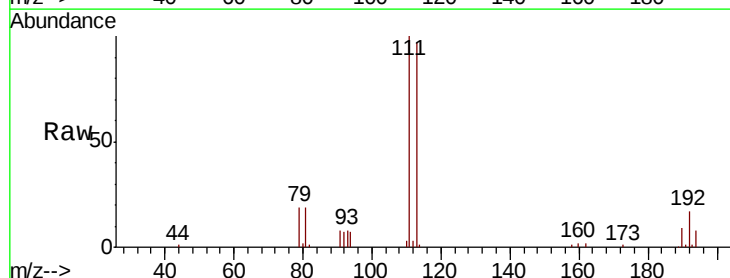
Tgt Ion:113 Resp: 84411

Ion Ratio Lower Upper

113 100

111 103.1 83.7 125.5

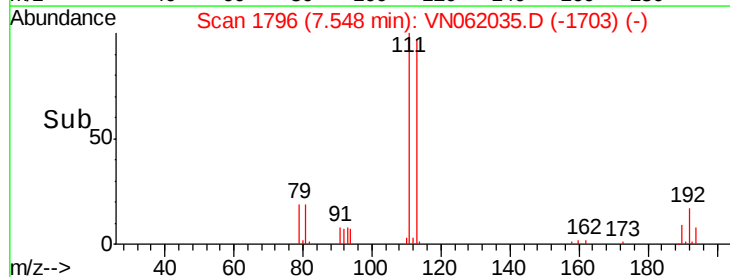
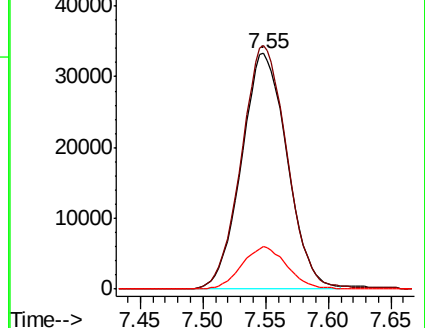
192 17.6 13.9 20.9

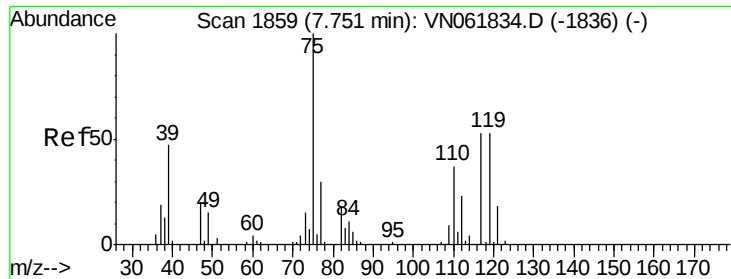


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.444 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Instrument :

MSVOA_N

ClientSampleId :

INF-SLUDGE

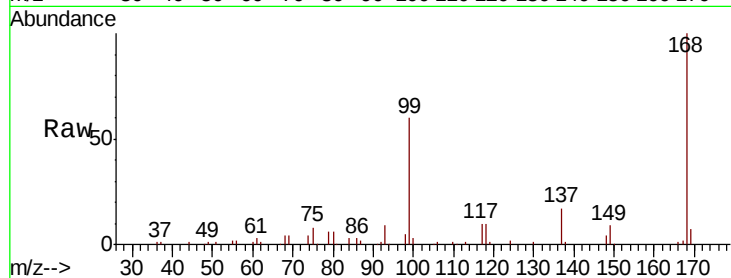
Tot Ion: 75 Resp: 10832

Ion Ratio Lower Upper

75 100

110 6.9 18.2 54.6#

77 0.0 24.2 36.4#

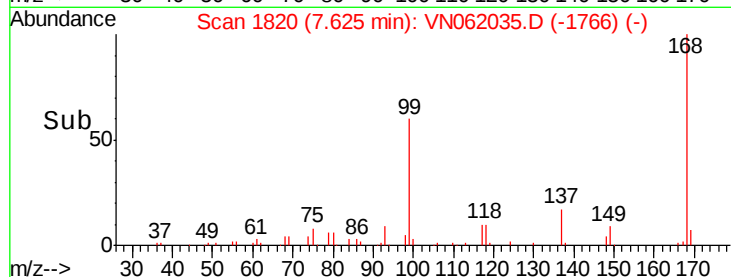


Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN061834.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN061834.D (-1836) (-)

Time-->

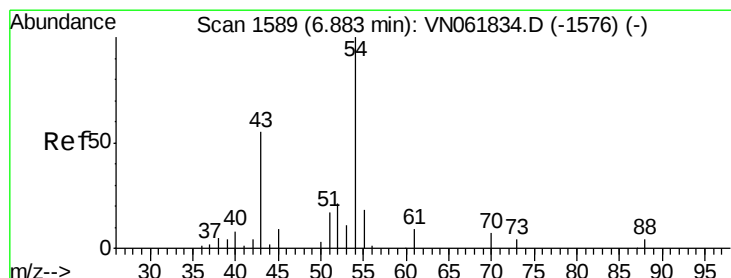


Abundance Ion 74.90 (74.60 to 75.60): VN062035.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062035.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062035.D (-1766) (-)

Time-->



#37

Ethyl Acetate

Concen: 2.366 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. -0.09 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

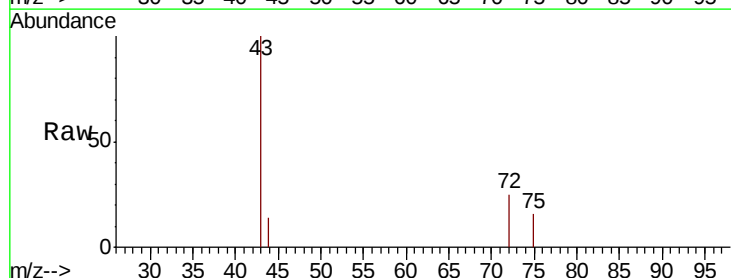
Tgt Ion: 43 Resp: 4503

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 9.4 14.2#

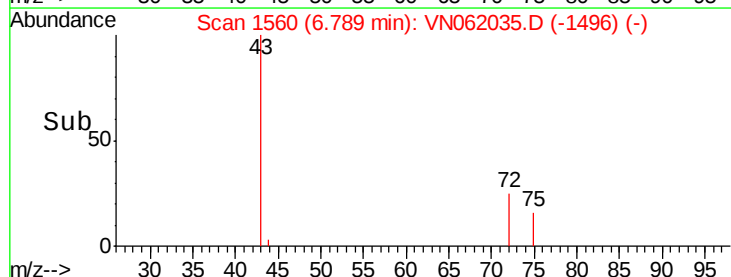


Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-1576) (-)

Ion 60.90 (60.60 to 61.60): VN061834.D (-1576) (-)

Ion 70.00 (69.70 to 70.70): VN061834.D (-1576) (-)

Time-->

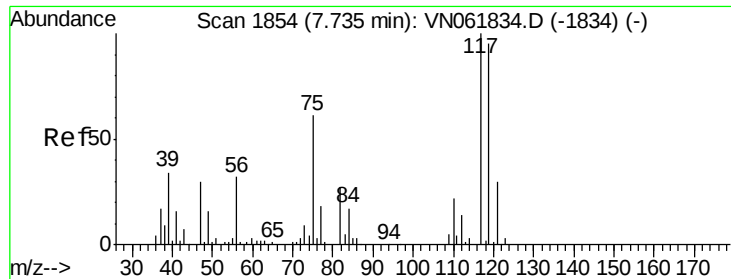


Abundance Ion 43.00 (42.70 to 43.70): VN062035.D (-1496) (-)

Ion 60.90 (60.60 to 61.60): VN062035.D (-1496) (-)

Ion 70.00 (69.70 to 70.70): VN062035.D (-1496) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.723 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Instrument :

MSVOA_N

ClientSampleId :

INF-SLUDGE

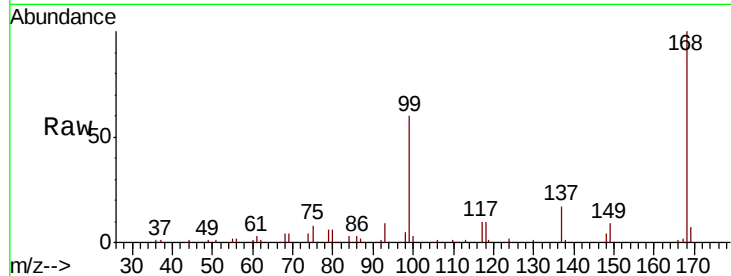
Tot Ion:117 Resp: 13814

Ion Ratio Lower Upper

117 100

119 5.3 75.8 113.6#

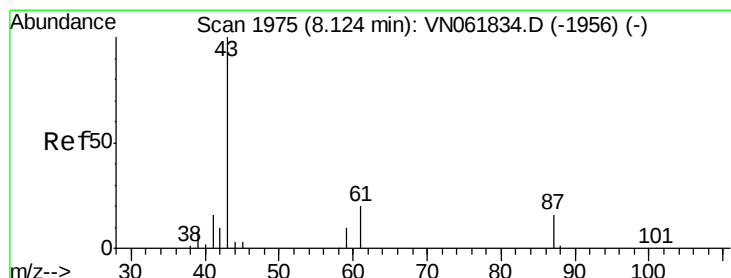
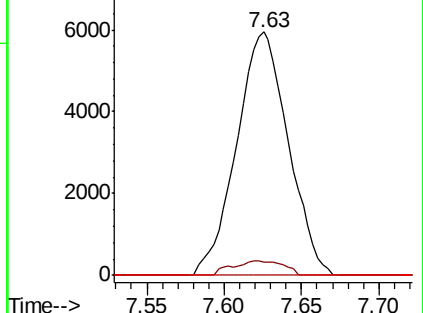
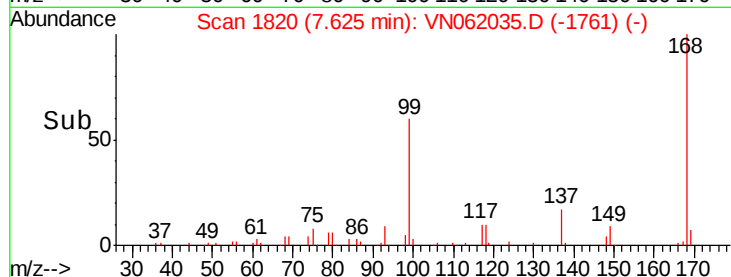
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 7.934 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

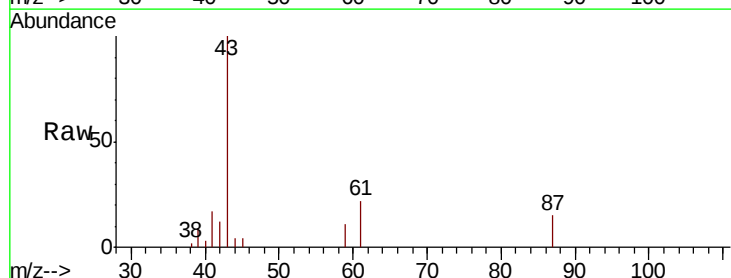
Tgt Ion: 43 Resp: 25449

Ion Ratio Lower Upper

43 100

61 20.8 24.0 36.0#

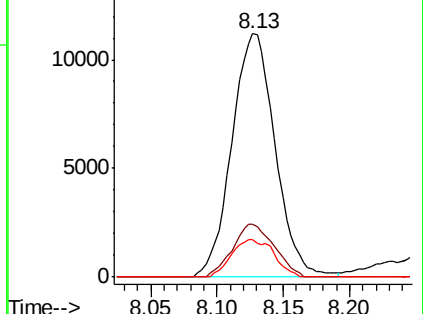
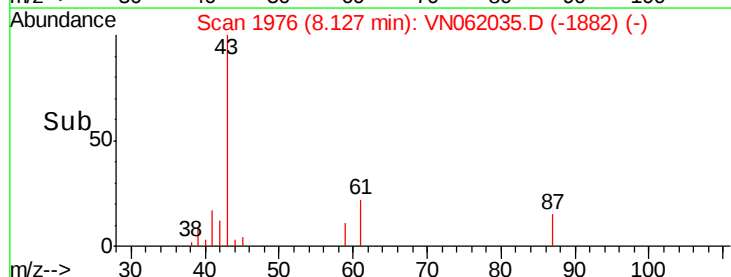
87 15.0 12.5 18.7

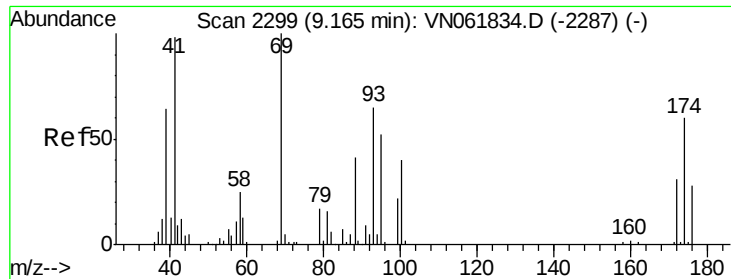


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

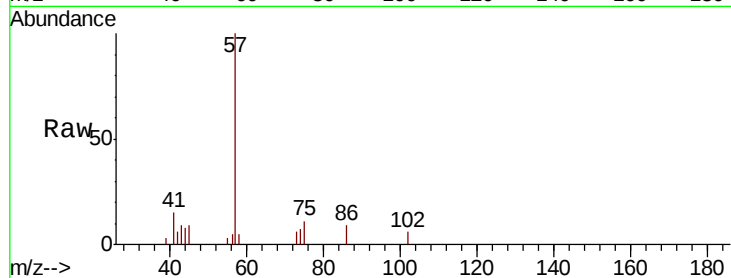




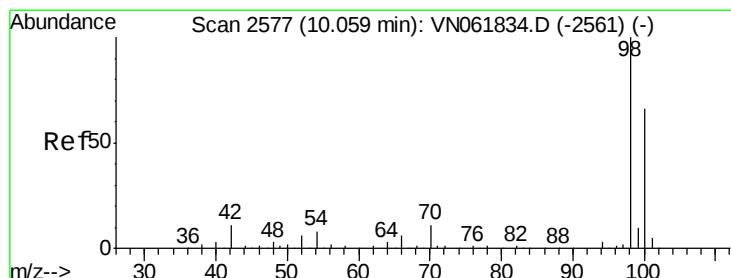
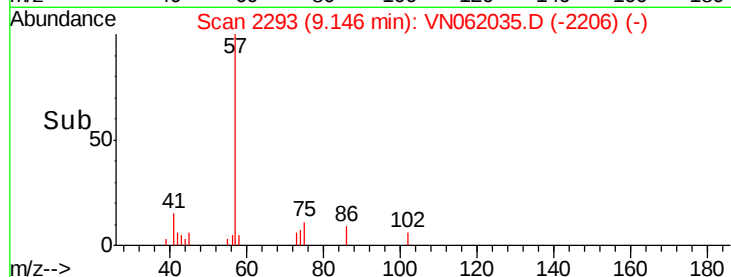
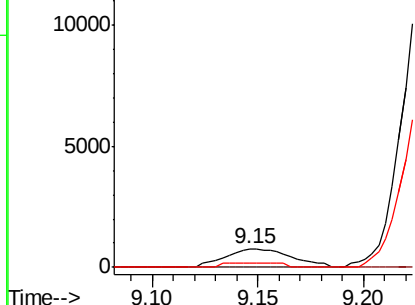
#48
Methvl methacrylate
Concen: 1.121 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

Instrument :
MSVOA_N
ClientSampled :
INF-SLUDGE

Tot Ion: 41 Resp: 1635
Ion Ratio Lower Upper
41 100
69 0.0 83.0 124.4#
39 0.0 55.1 82.7#

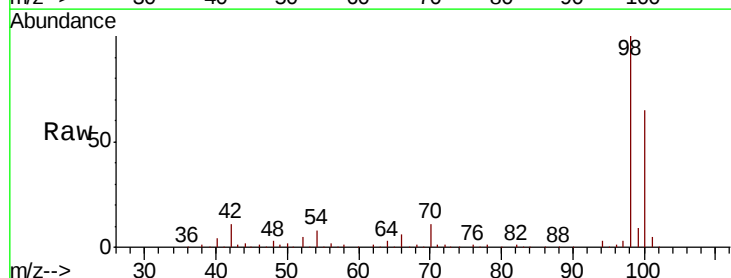


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

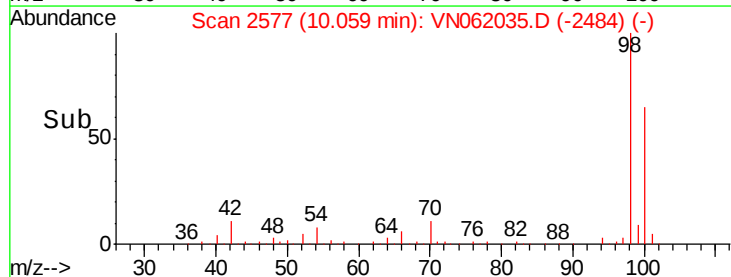
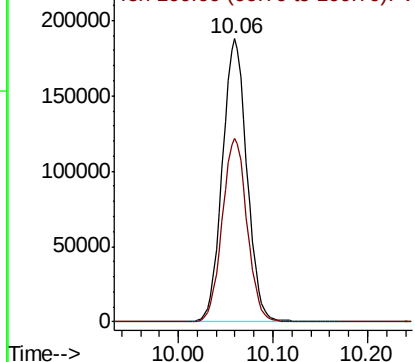


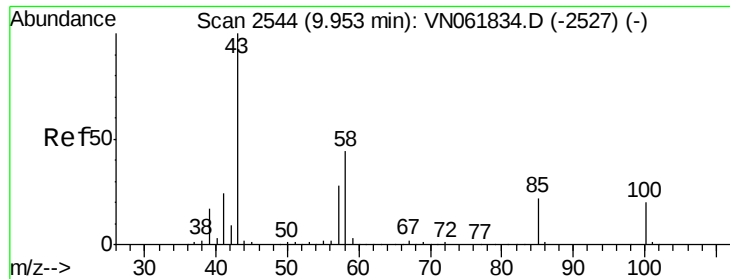
#50
Toluene-d8
Concen: 50.361 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

Tgt Ion: 98 Resp: 338468
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

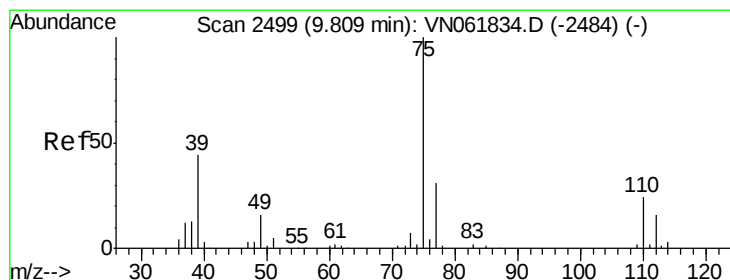
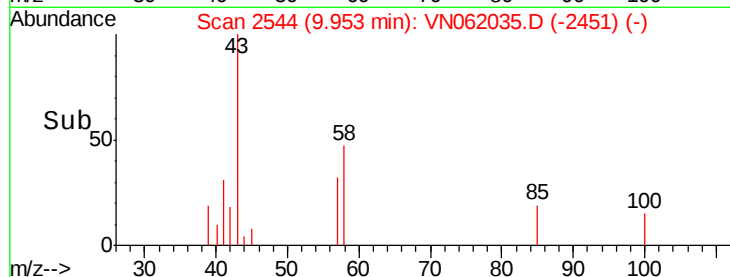
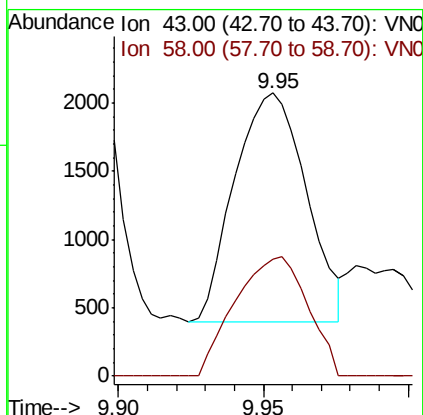
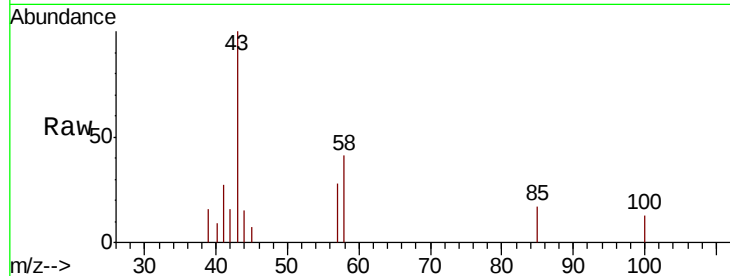




#51
 4-Methyl-2-Pentanone
 Concen: 1.521 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN062035.D
 Acq: 23 Jun 2020 6:46

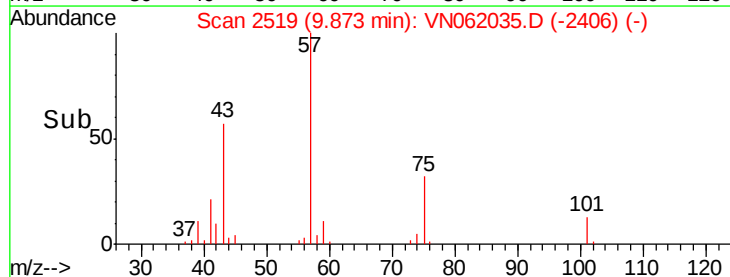
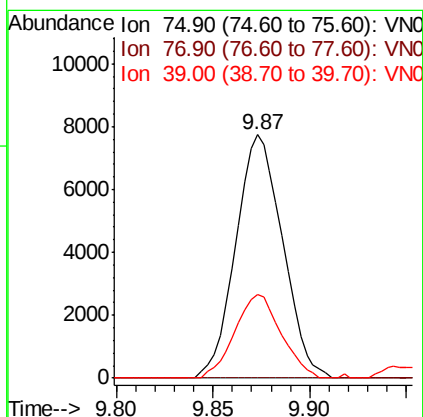
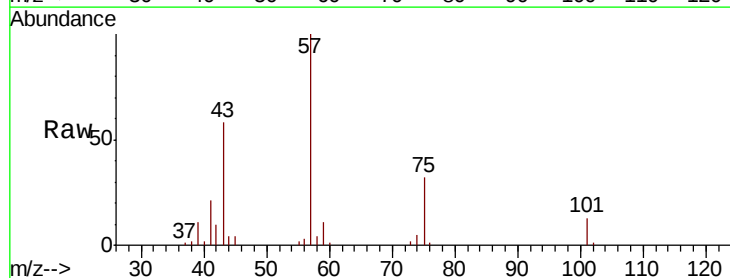
Instrument :
 MSVOA_N
 ClientSampled :
 INF-SLUDGE

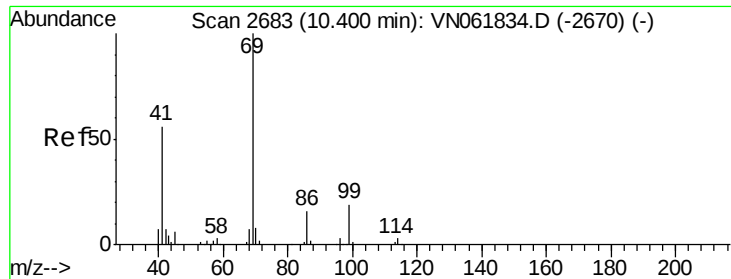
Tot Ion: 43 Resp: 2883
 Ion Ratio Lower Upper
 43 100
 58 52.8 34.6 52.0#



#54
 cis-1,3-Dichloropropene
 Concen: 4.319 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062035.D
 Acq: 23 Jun 2020 6:46

Tgt Ion: 75 Resp: 13028
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 34.1 35.4 53.0#





#56

Ethyl methacrylate

Concen: 3.110 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Instrument :

MSVOA_N

ClientSampleId :

INF-SLUDGE

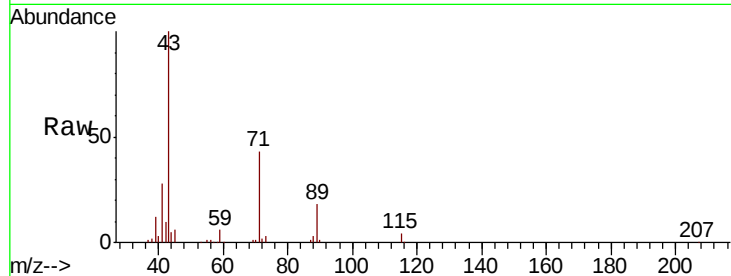
Tot Ion: 69 Resp: 614

Ion Ratio Lower Upper

69 100

41 4554.4 44.9 67.3#

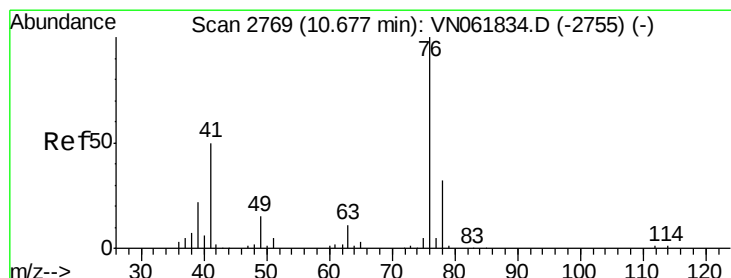
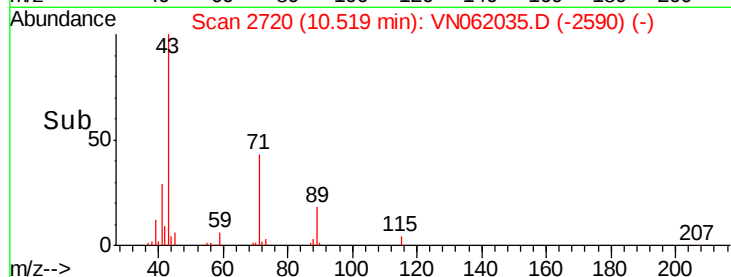
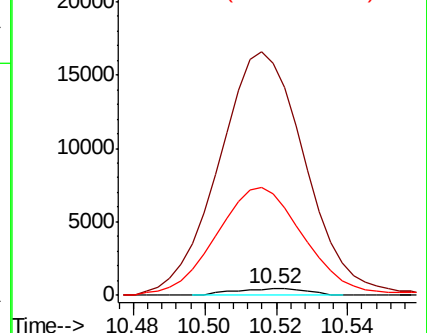
39 2053.7 30.0 45.0#



Abundance Ion 69.00 (68.70 to 69.70): VN062035.D (-2590) (-)

Ion 41.00 (40.70 to 41.70): VN062035.D (-2590) (-)

Ion 39.00 (38.70 to 39.70): VN062035.D (-2590) (-)



#57

1,3-Dichloropropane

Concen: 0.521 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062035.D

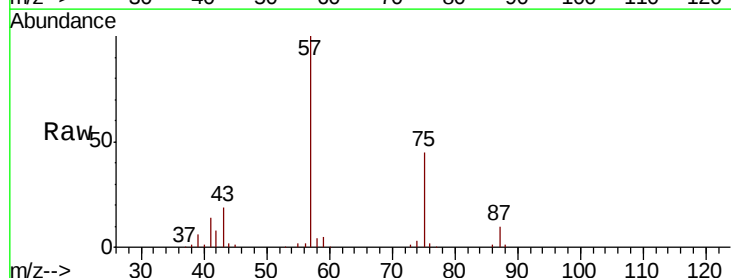
Acq: 23 Jun 2020 6:46

Tgt Ion: 76 Resp: 1611

Ion Ratio Lower Upper

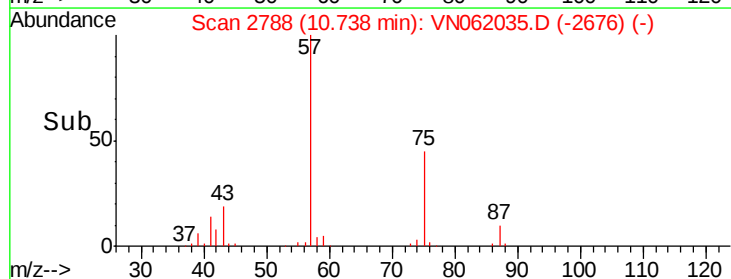
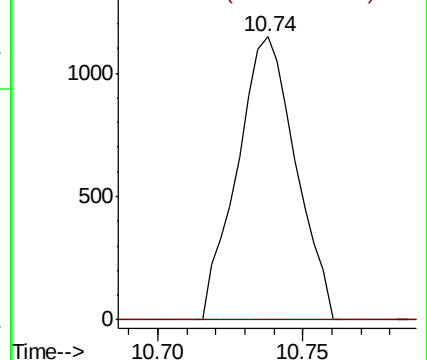
76 100

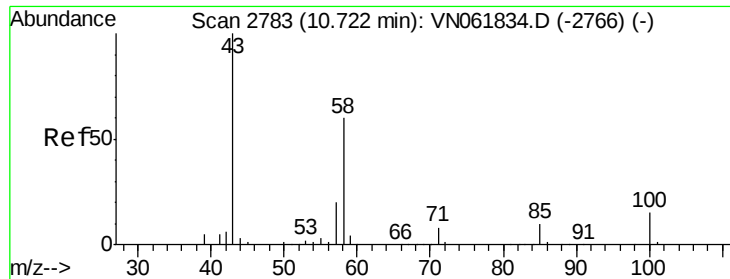
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062035.D (-2676) (-)

Ion 77.90 (77.60 to 78.60): VN062035.D (-2676) (-)

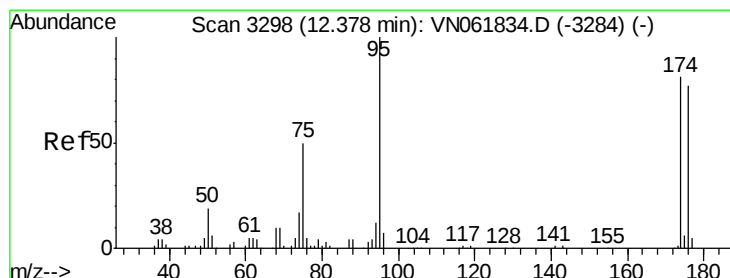
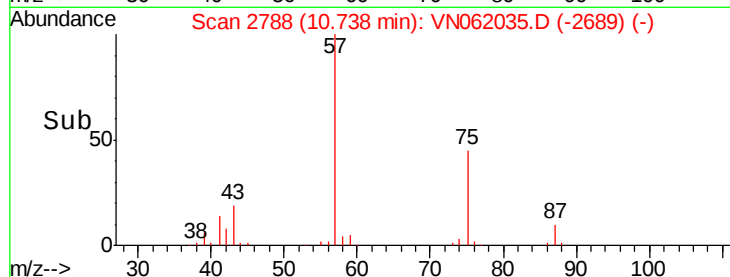
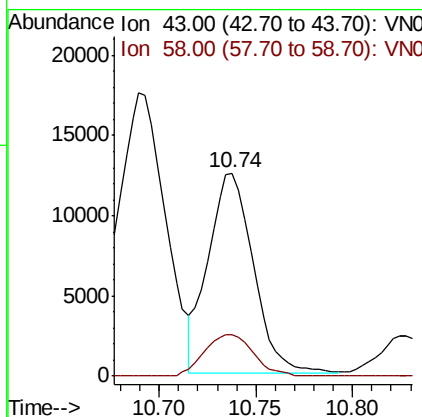
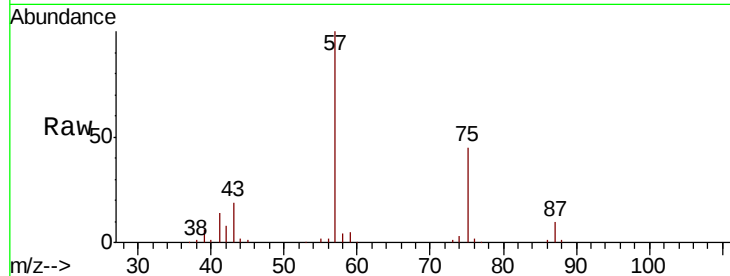




#59
2-Hexanone
Concen: 26.203 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

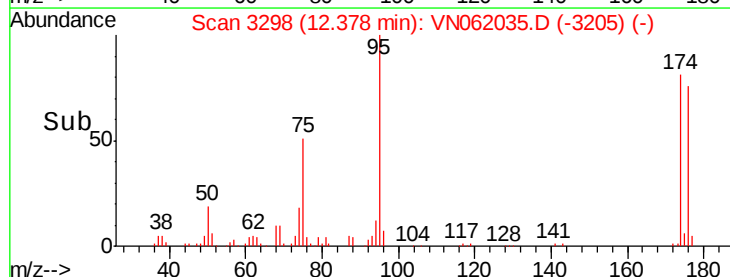
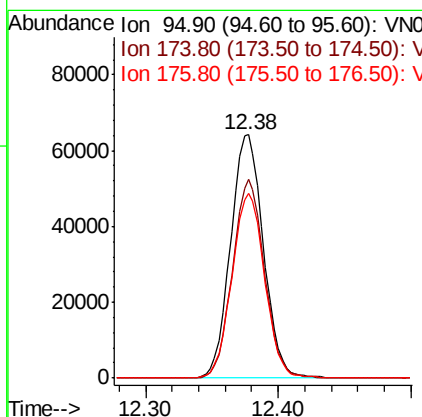
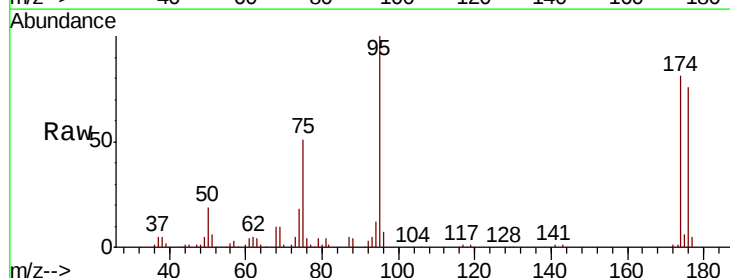
Instrument :
MSVOA_N
ClientSampled :
INF-SLUDGE

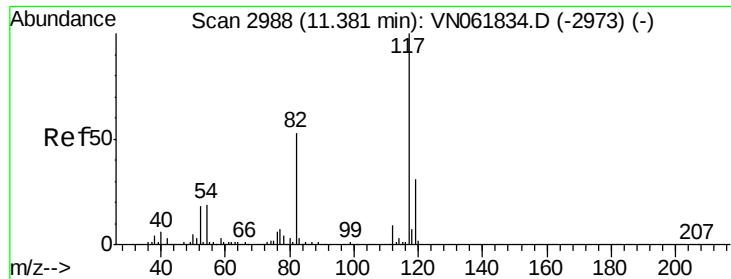
Tot Ion: 43 Resp: 20476
Ion Ratio Lower Upper
43 100
58 22.2 30.1 90.5#



#62
4-Bromofluorobenzene
Concen: 47.929 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

Tgt Ion: 95 Resp: 110493
Ion Ratio Lower Upper
95 100
174 79.2 0.0 158.6
176 75.4 0.0 152.0

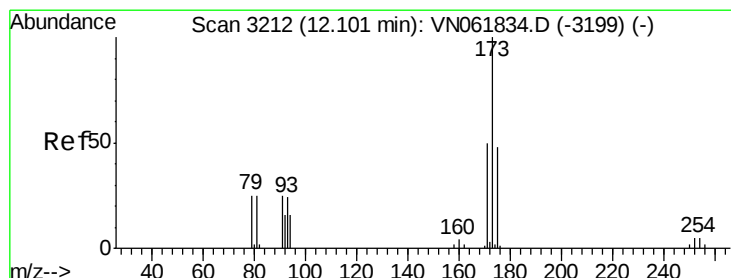
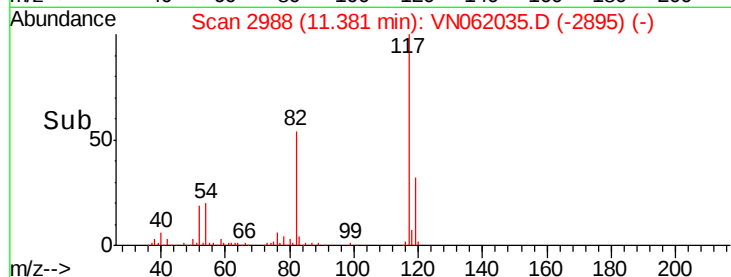
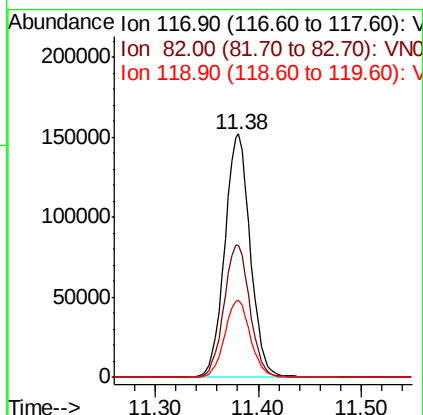
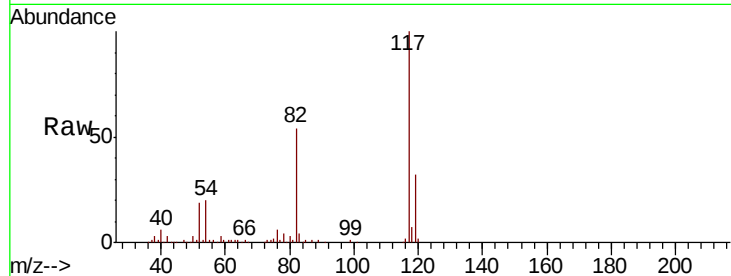




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

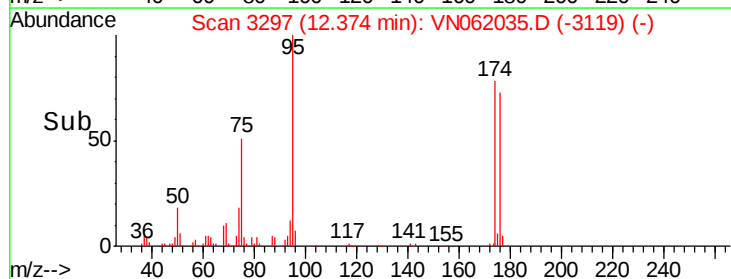
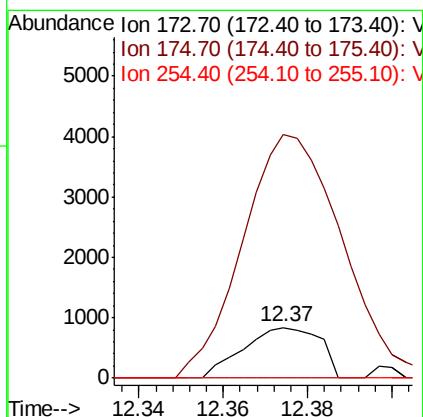
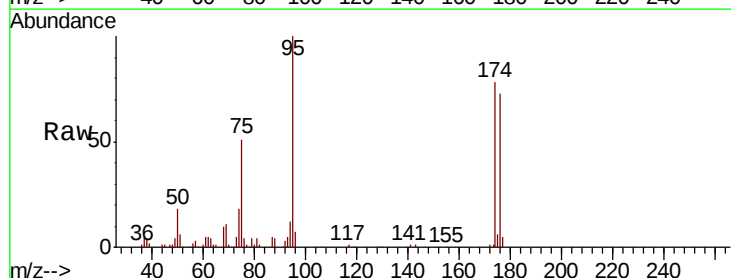
Instrument :
MSVOA_N
ClientSampleId :
INF-SLUDGE

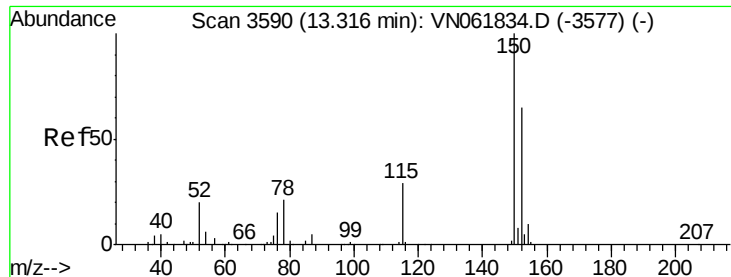
Tot Ion:117 Resp: 261957
Ion Ratio Lower Upper
117 100
82 54.2 42.6 64.0
119 31.8 24.7 37.1



#71
Bromoform
Concen: 0.755 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062035.D
Acq: 23 Jun 2020 6:46

Tgt Ion:173 Resp: 1061
Ion Ratio Lower Upper
173 100
175 536.5 23.9 71.7#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Instrument :

MSVOA_N

ClientSampleId :

INF-SLUDGE

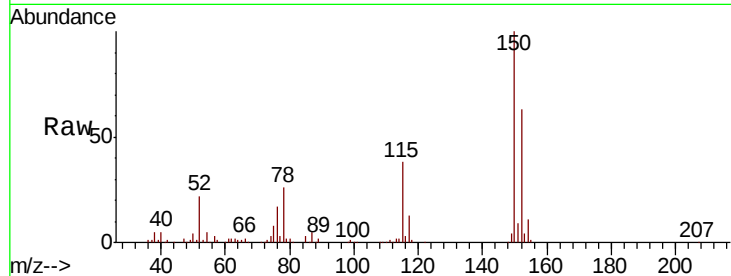
Tot Ion:152 Resp: 97267

Ion Ratio Lower Upper

152 100

115 59.3 29.1 87.3

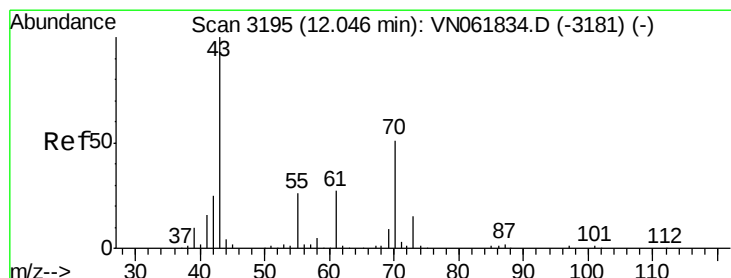
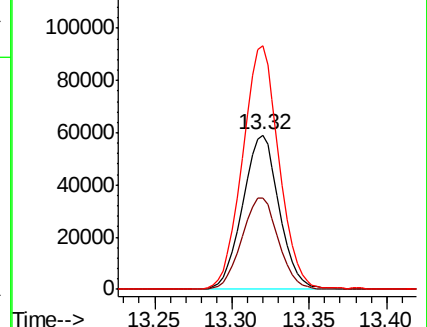
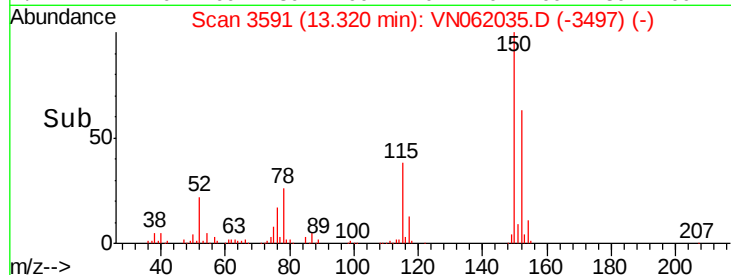
150 157.0 0.0 347.6



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



#74

N-ethyl acetate

Concen: 3.405 ug/l

RT: 12.00 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Tgt Ion: 43 Resp: 910

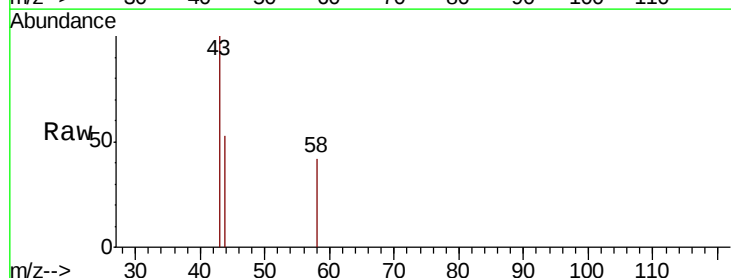
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

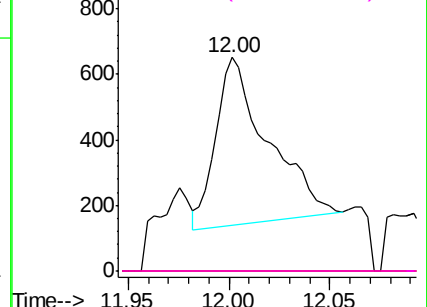
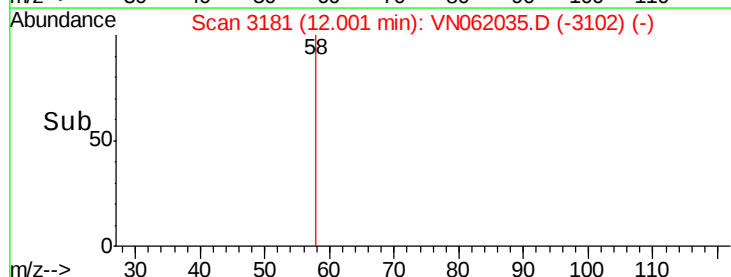


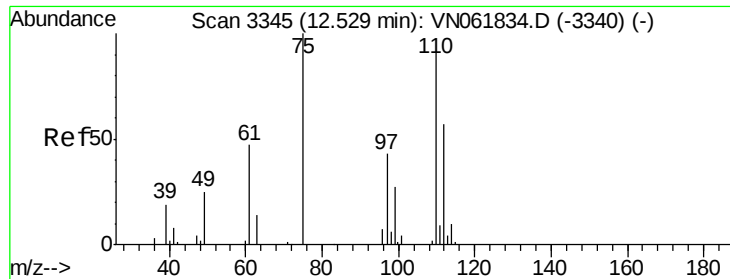
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 29.029 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Instrument :

MSVOA_N

ClientSampled :

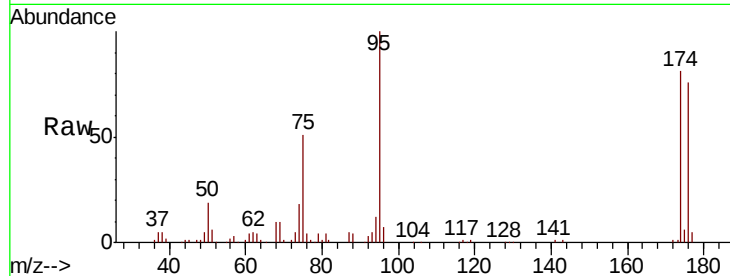
INF-SLUDGE

Tot Ion: 75 Resp: 55433

Ion Ratio Lower Upper

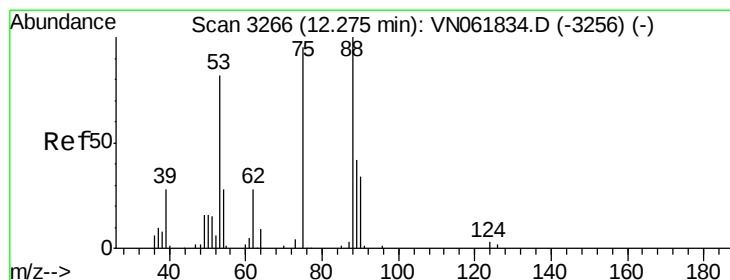
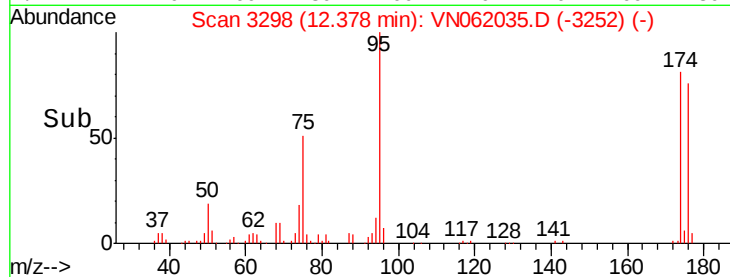
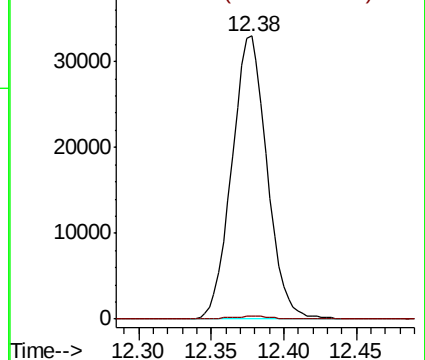
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 79.173 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

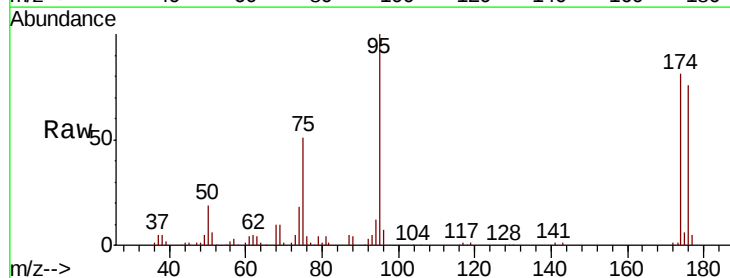
Tgt Ion: 75 Resp: 55433

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

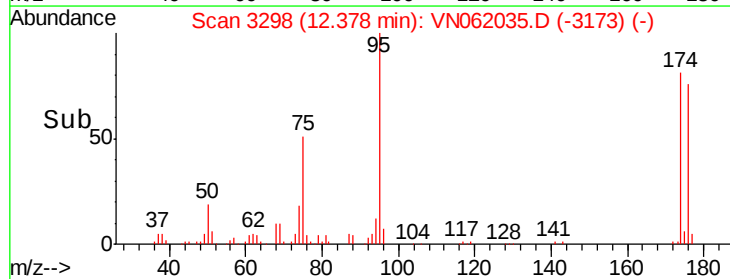
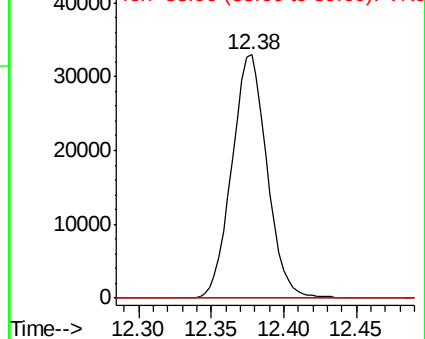
89 0.0 36.0 54.0#

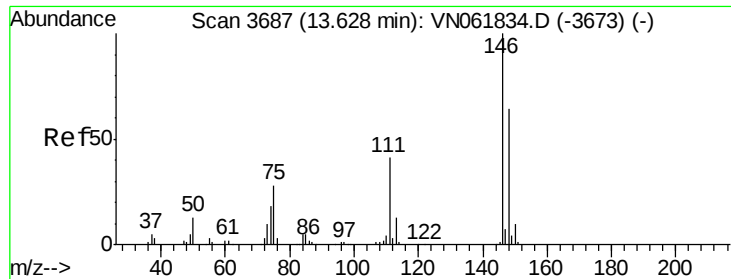


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#91

1,2-Dichlorobenzene

Concen: 0.406 ug/l

RT: 13.63 min Scan# 3687

Delta R.T. 0.00 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

Instrument :

MSVOA_N

ClientSampled :

INF-SLUDGE

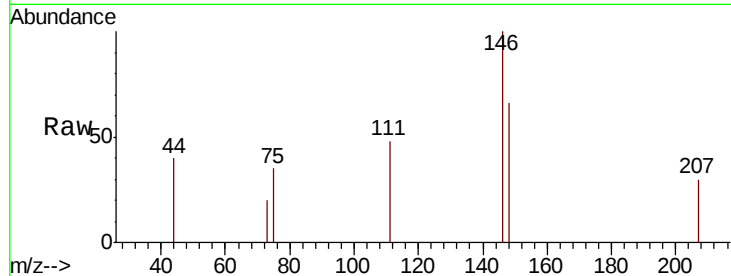
Tot Ion:146 Resp: 1244

Ion Ratio Lower Upper

146 100

111 39.7 20.4 61.2

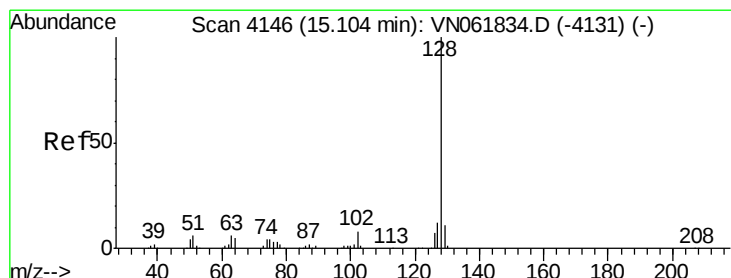
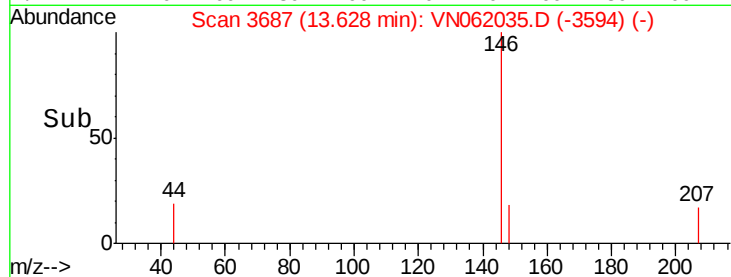
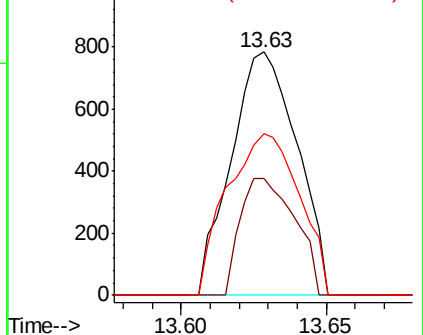
148 72.7 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 3.514 ug/l

RT: 15.10 min Scan# 4145

Delta R.T. -0.00 min

Lab File: VN062035.D

Acq: 23 Jun 2020 6:46

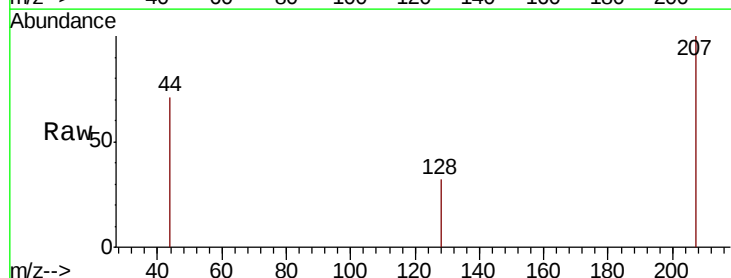
Tgt Ion:128 Resp: 163

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

