

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
 Data File : VN056430.D
 Acq On : 21 Jun 2019 16:49
 Operator : JC/SP
 Sample : K3484-01 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WASTE-SLUDGE 5X

Quant Time: Jun 22 01:39:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	61504	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	342999	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	276025	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	127745	33.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.50%
60) 4-Bromofluorobenzene	12.40	95	101957	24.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	83.07%
63) Toluene-d8	10.09	98	396518	31.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.57%

Target Compounds

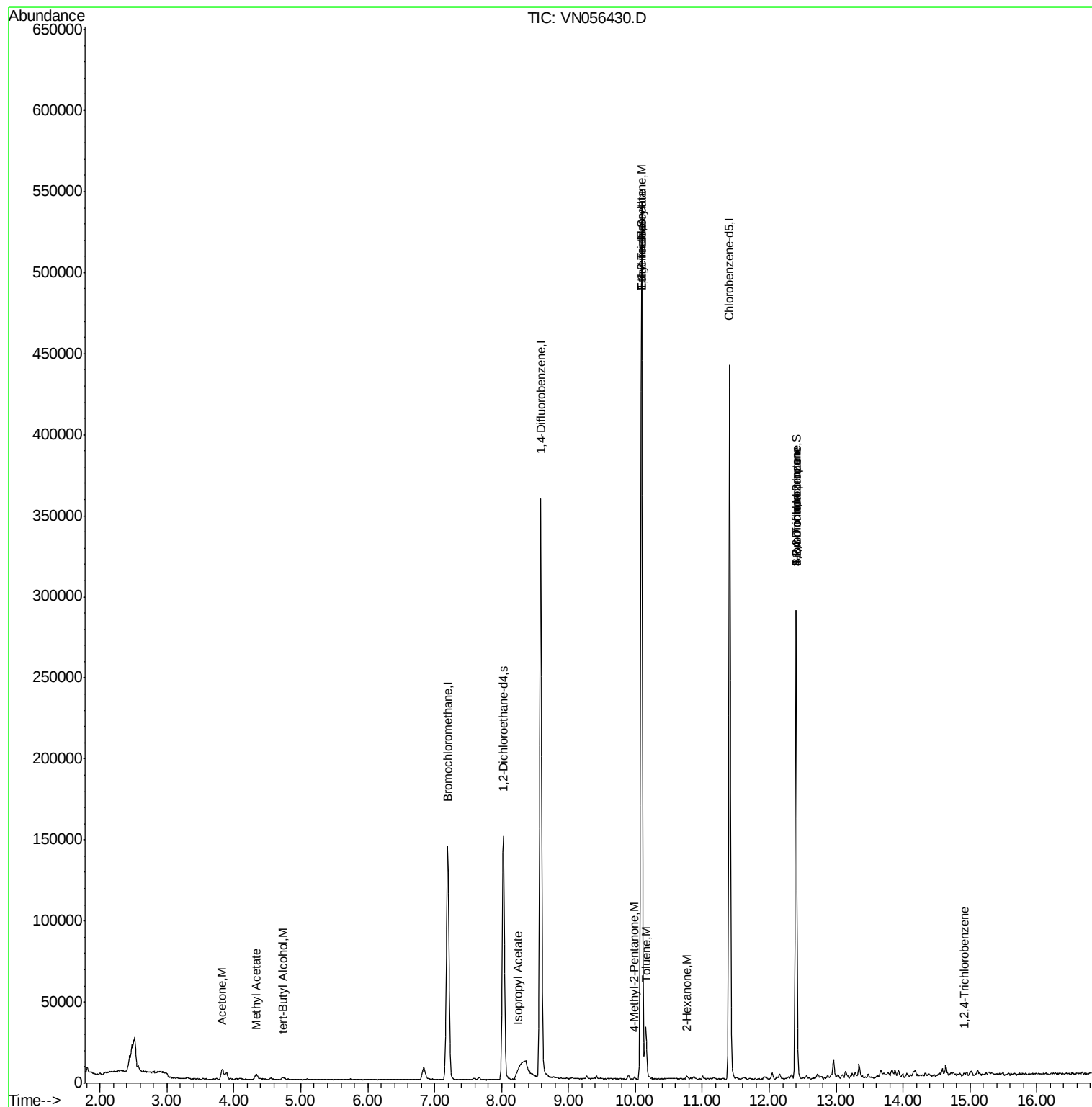
					Ovalue	
12) Methyl Acetate	4.33	43	6400	1.659	ug/l	92
15) Acetone	3.82	58	1595	2.831	ug/l #	68
23) tert-Butyl Alcohol	4.73	59	257	0.384	ug/l #	100
44) Isopropyl Acetate	8.24	43	3635	0.501	ug/l #	70
50) 1,1,2-Trichloroethane	10.10	97	12207	3.274	ug/l #	1
51) Ethyl methacrylate	10.09	69	1207	0.214	ug/l	80
56) Bromoform	12.41	173	773	0.293	ug/l #	1
58) 4-Methyl-2-Pentanone	9.98	43	1426	0.341	ug/l #	60
59) 2-Hexanone	10.77	43	640	0.214	ug/l #	1
62) Toluene	10.16	91	23057	1.547	ug/l	98
72) 1,2,3-Trichloropropane	12.40	75	46531	11.473	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	46531	40.210	ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	231	8.600	ug/l	90

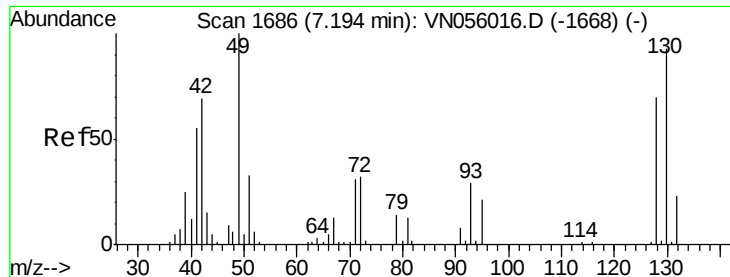
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062119\
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Instrument :
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WASTE-SLUDGE 5X

Quant Time: Jun 22 01:39:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration

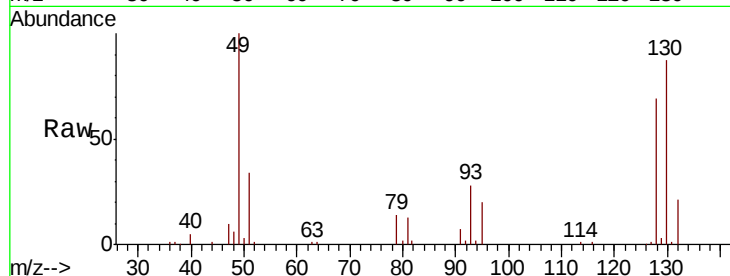




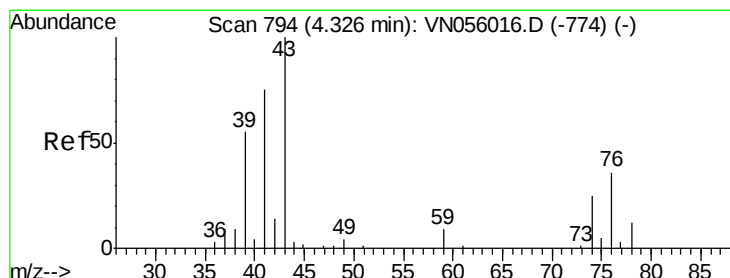
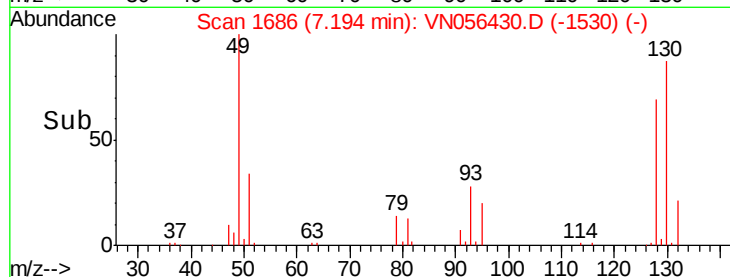
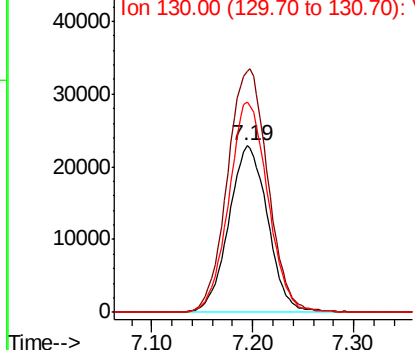
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN056430.D
 Acq: 21 Jun 2019 16:49

Instrument :
 MSVOA_N
 ClientSampleId :
 WASTE-SLUDGE 5X

Tot Ion:128 Resp: 61504
 Ion Ratio Lower Upper
 128 100
 49 151.4 0.0 355.8
 130 126.7 0.0 326.3

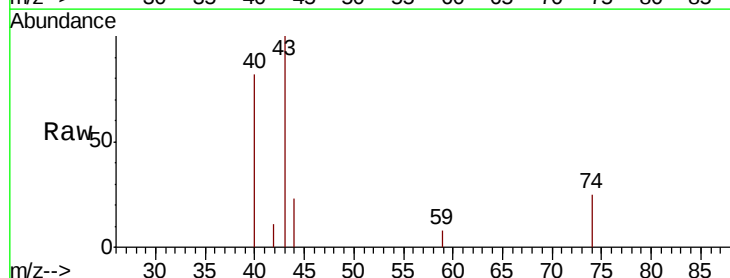


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

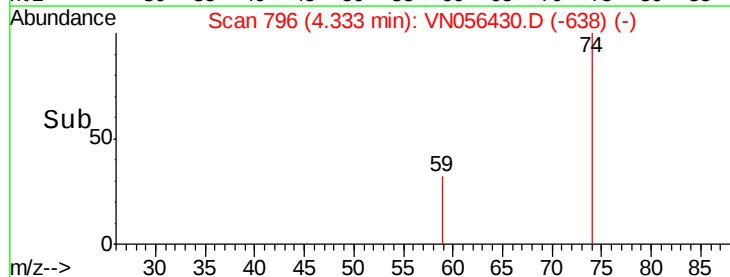
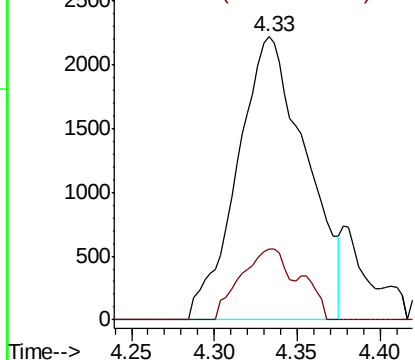


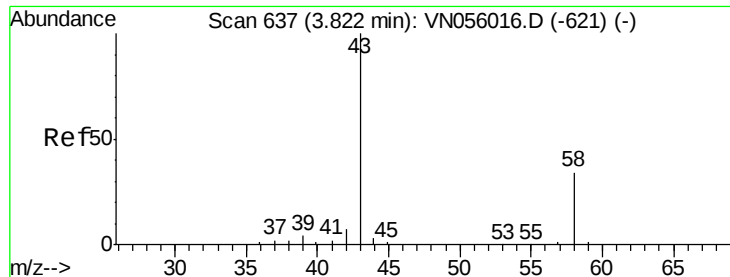
#12
 Methyl Acetate
 Concen: 1.659 ug/l
 RT: 4.33 min Scan# 796
 Delta R.T. 0.01 min
 Lab File: VN056430.D
 Acq: 21 Jun 2019 16:49

Tgt Ion: 43 Resp: 6400
 Ion Ratio Lower Upper
 43 100
 74 29.1 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 74.00 (73.70 to 74.70): VN





#15

Acetone

Concen: 2.831 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

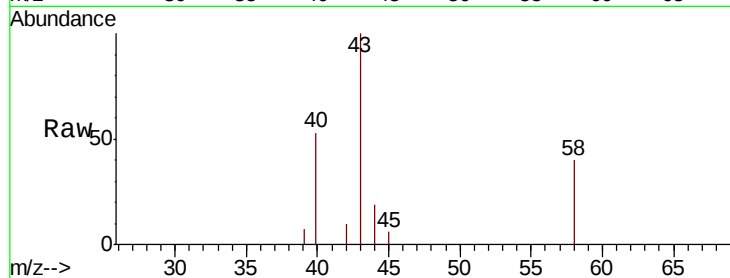
WASTE-SLUDGE 5X

Tot Ion: 58 Resp: 1595

Ion Ratio Lower Upper

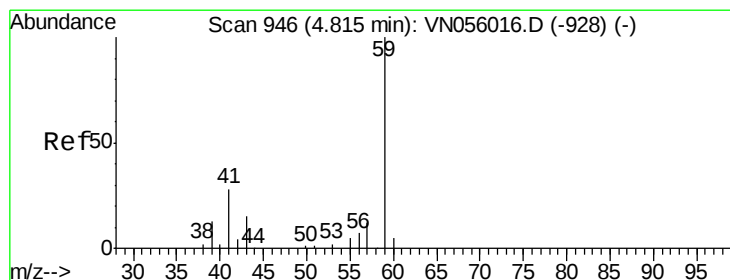
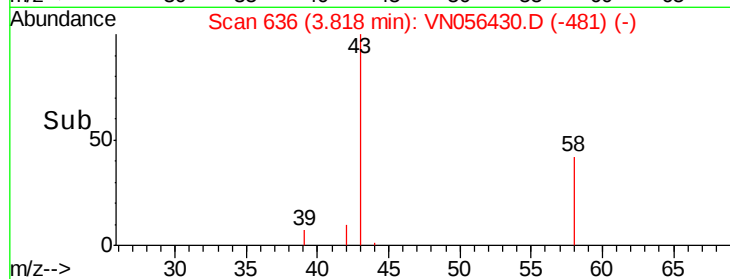
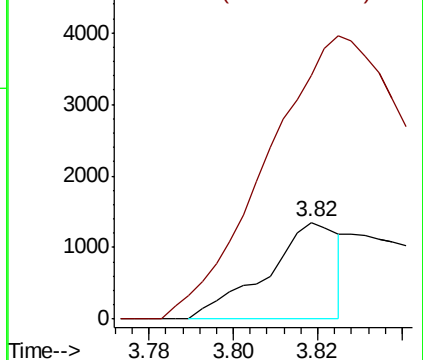
58 100

43 228.8 232.5 348.7#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#23

tert-Butyl Alcohol

Concen: 0.384 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.08 min

Lab File: VN056430.D

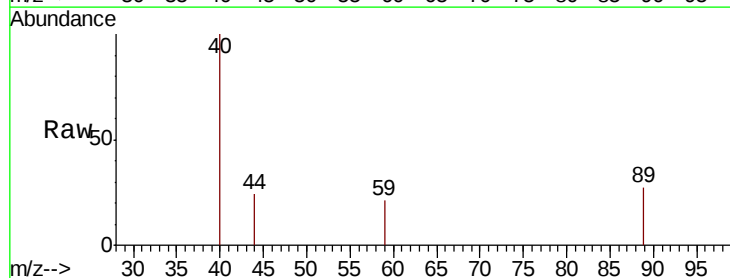
Acq: 21 Jun 2019 16:49

Tgt Ion: 59 Resp: 257

Ion Ratio Lower Upper

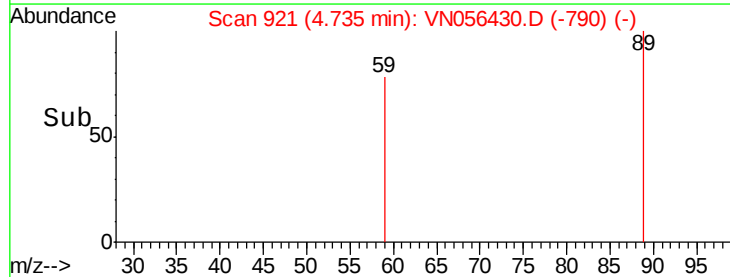
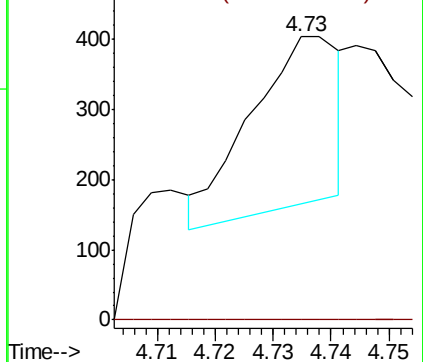
59 100

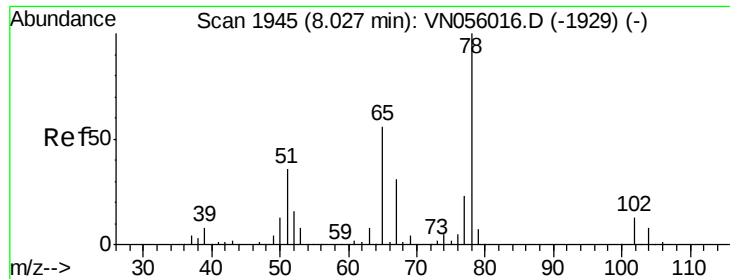
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 33.447 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

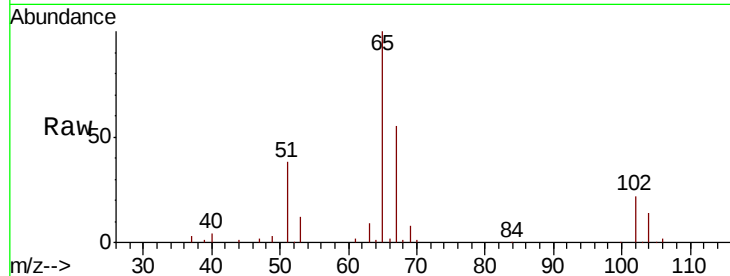
WASTE-SLUDGE 5X

Tot Ion: 65 Resp: 127745

Ion Ratio Lower Upper

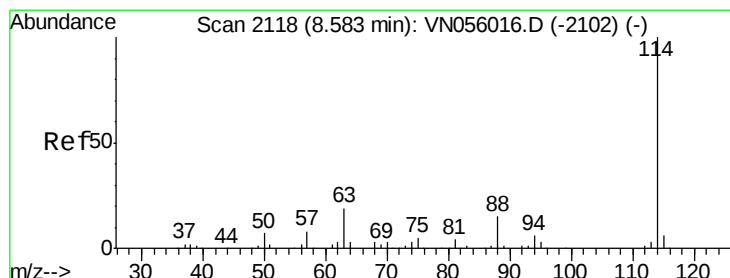
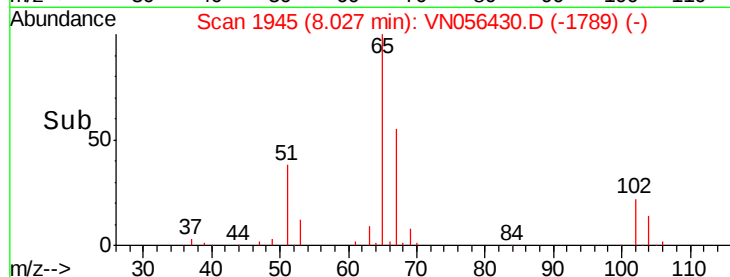
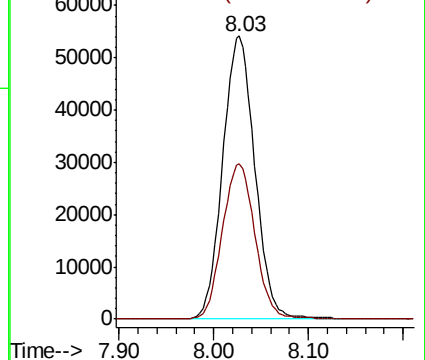
65 100

67 55.8 43.4 65.2



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

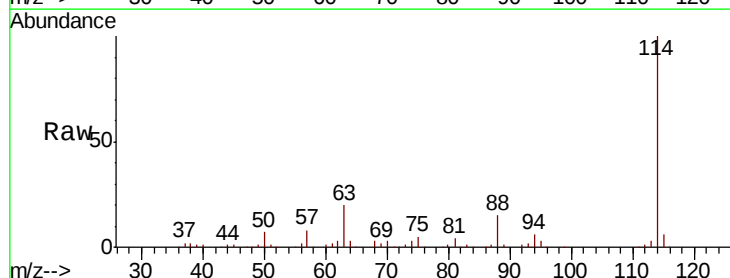
Tgt Ion: 114 Resp: 342999

Ion Ratio Lower Upper

114 100

63 19.0 14.7 22.1

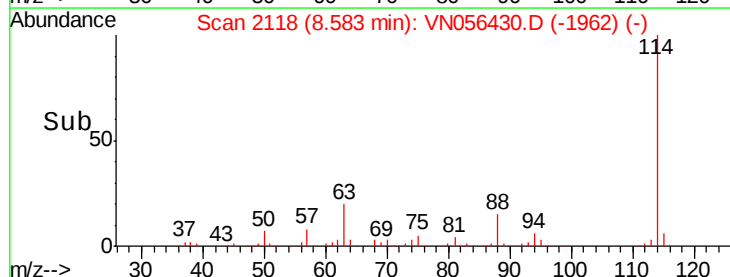
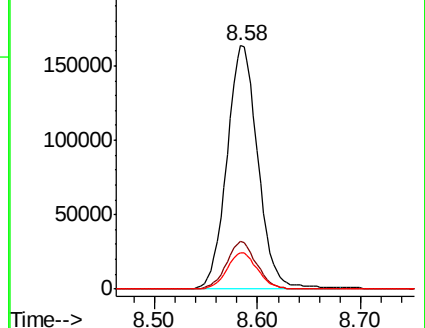
88 14.9 11.9 17.9

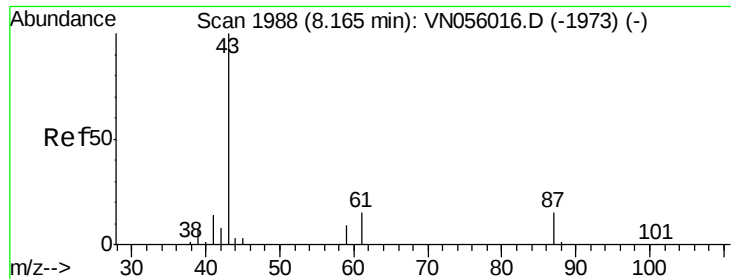


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0





#44

Isopropyl Acetate

Concen: 0.501 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.07 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

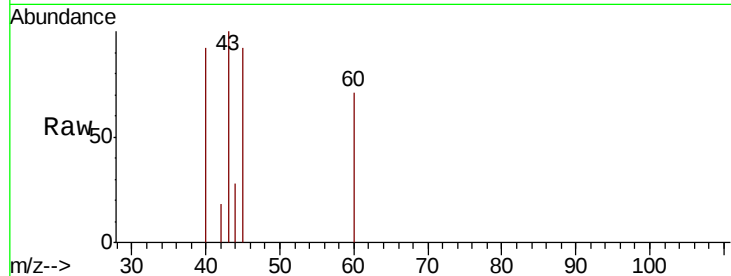
WASTE-SLUDGE 5X

Tot Ion: 43 Resp: 3635

Ion Ratio Lower Upper

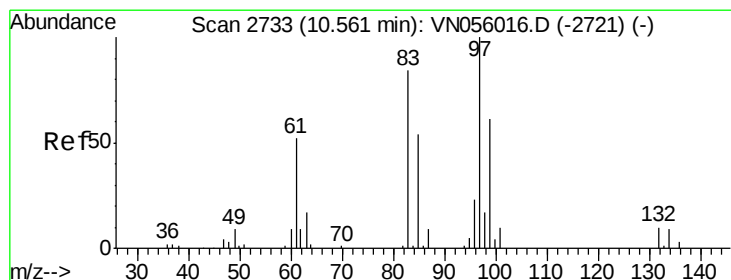
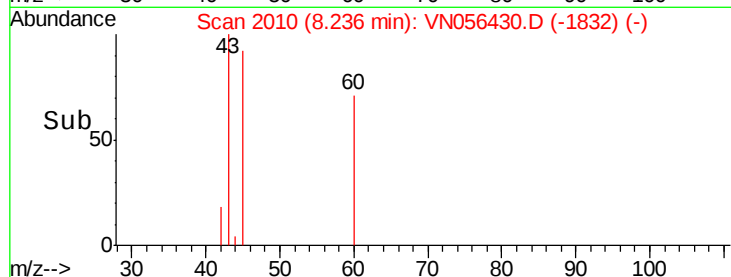
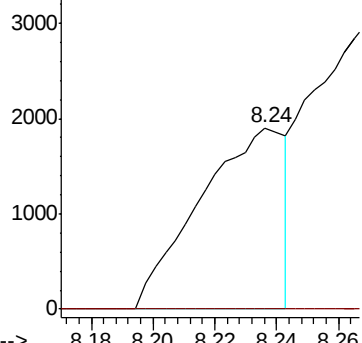
43 100

61 35.4 16.9 25.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#50

1,1,2-Trichloroethane

Concen: 3.274 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Tgt Ion: 97 Resp: 12207

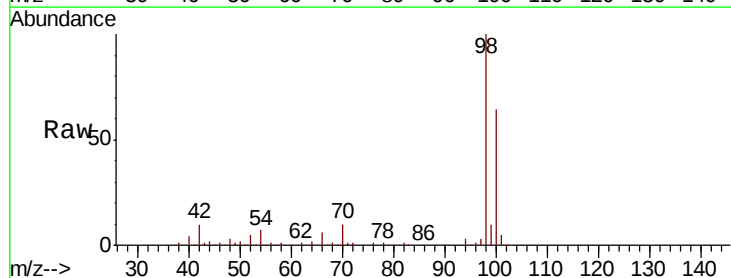
Ion Ratio Lower Upper

97 100

83 2.5 66.9 100.3#

85 0.0 43.3 64.9#

99 280.6 48.6 73.0#

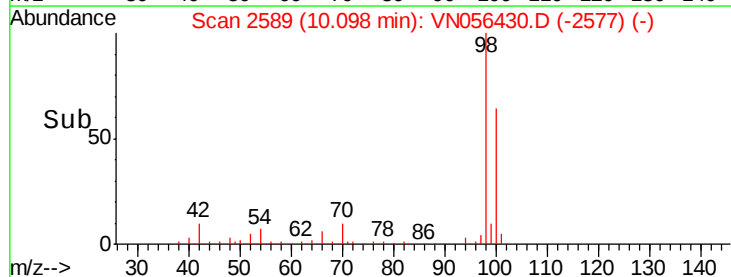
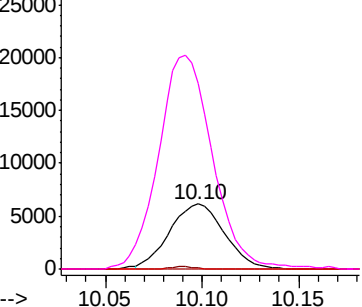


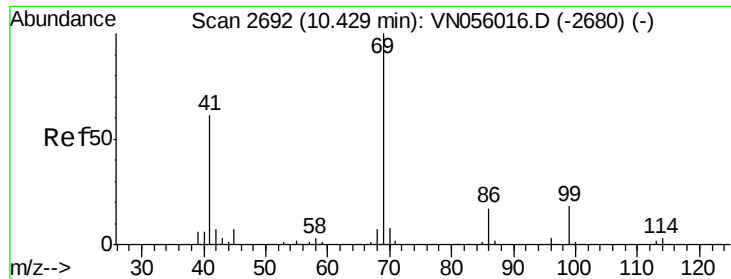
Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0





#51

Ethyl methacrylate

Concen: 0.214 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

WASTE-SLUDGE 5X

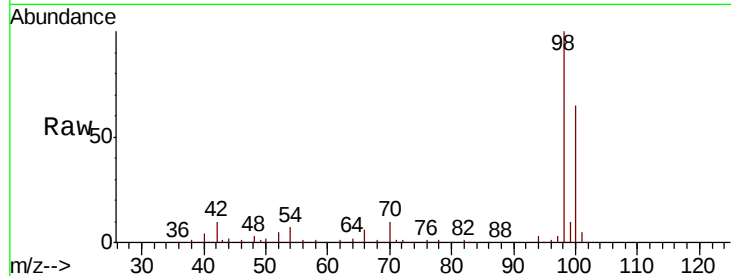
Tot Ion: 69 Resp: 1207

Ion Ratio Lower Upper

69 100

41 78.7 30.8 92.3

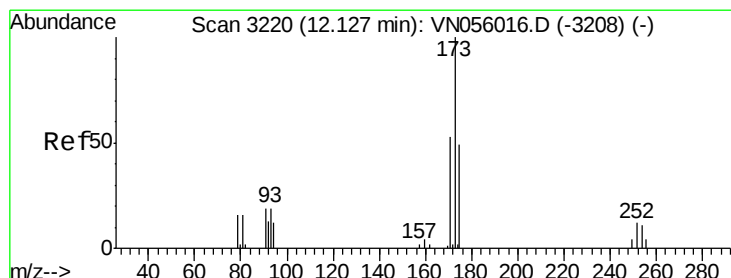
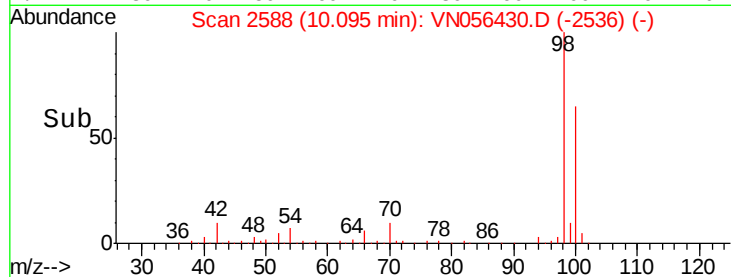
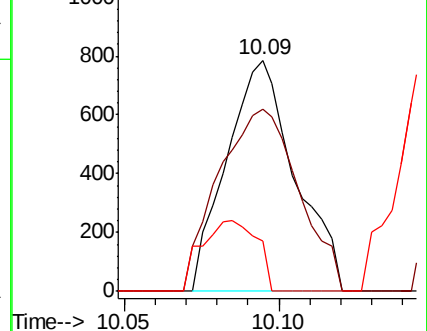
39 21.7 14.5 43.6



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Bromoform

Concen: 0.293 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

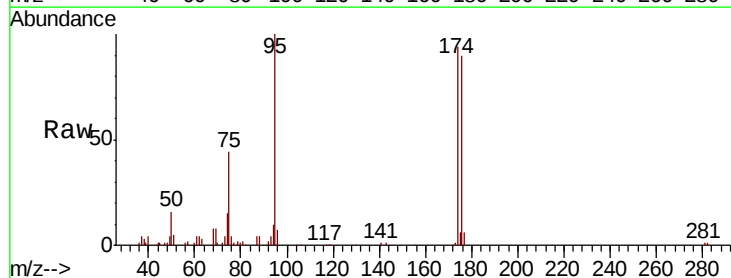
Tgt Ion: 173 Resp: 773

Ion Ratio Lower Upper

173 100

175 838.2 38.7 58.1#

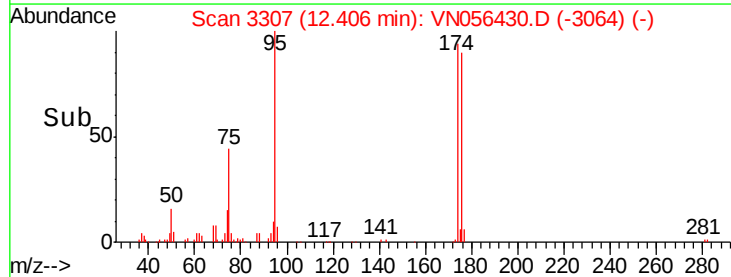
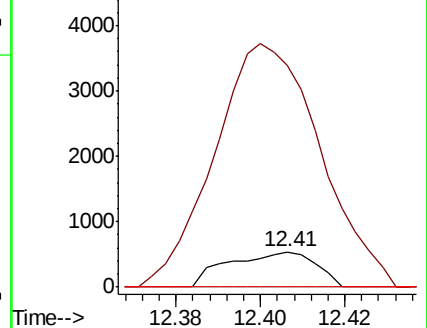
254 0.0 6.6 9.8#

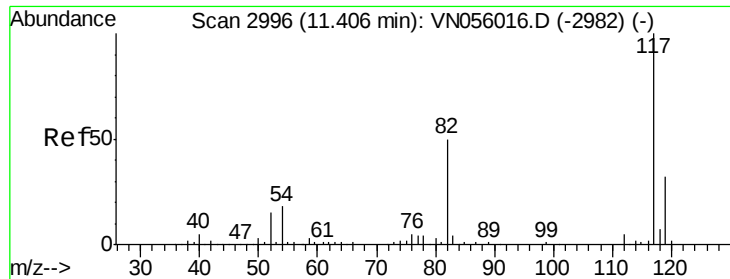


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

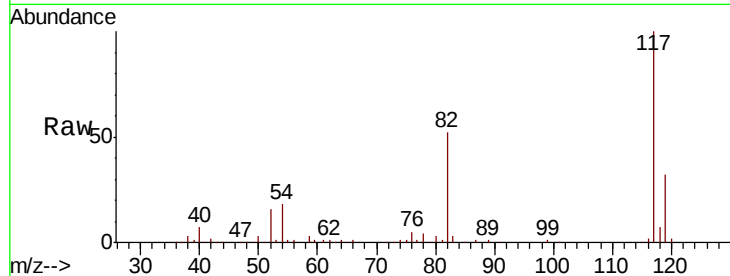




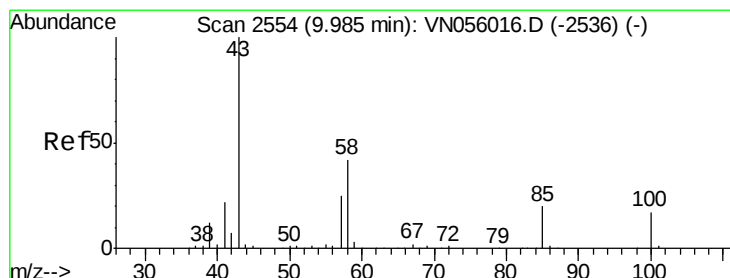
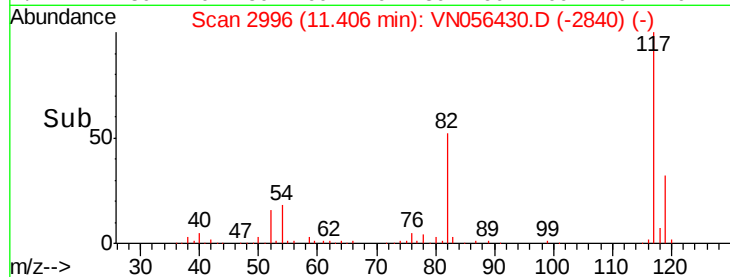
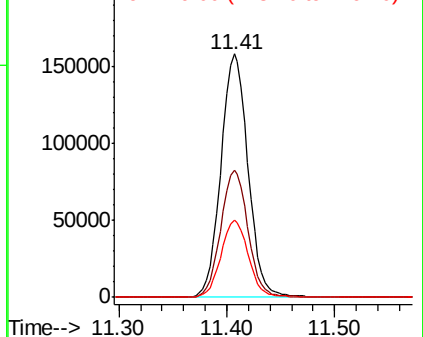
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056430.D
Acq: 21 Jun 2019 16:49

Instrument :
MSVOA_N
ClientSampleId :
WASTE-SLUDGE 5X

Tot Ion:117 Resp: 276025
Ion Ratio Lower Upper
117 100
82 52.5 41.2 61.8
119 32.1 26.2 39.2

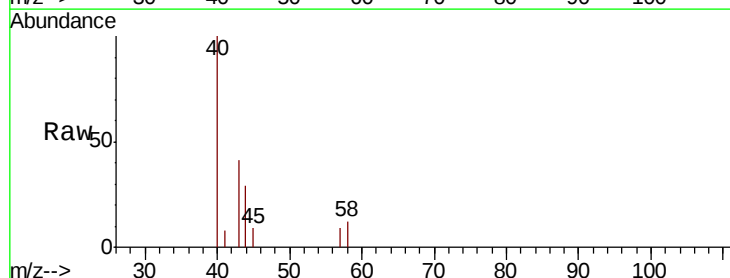


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

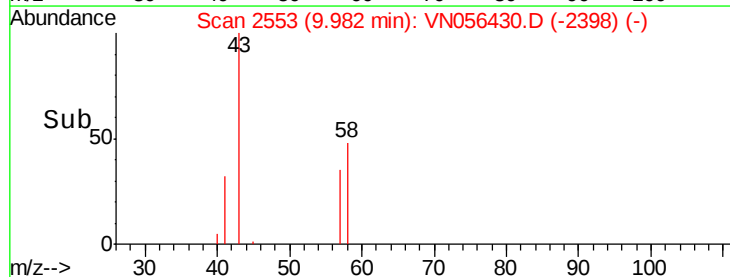
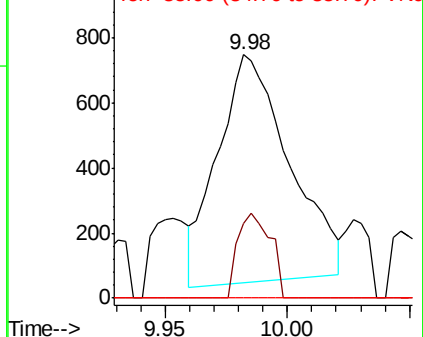


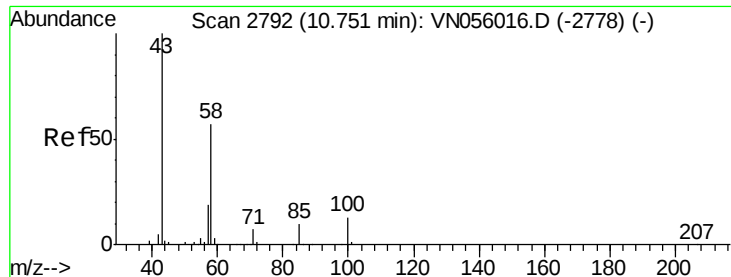
#58
4-Methyl-2-Pentanone
Concen: 0.341 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN056430.D
Acq: 21 Jun 2019 16:49

Tgt Ion: 43 Resp: 1426
Ion Ratio Lower Upper
43 100
58 17.0 33.1 49.7#
85 0.0 15.5 23.3#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN





#59

2-Hexanone

Concen: 0.214 ug/l

RT: 10.77 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

WASTE-SLUDGE 5X

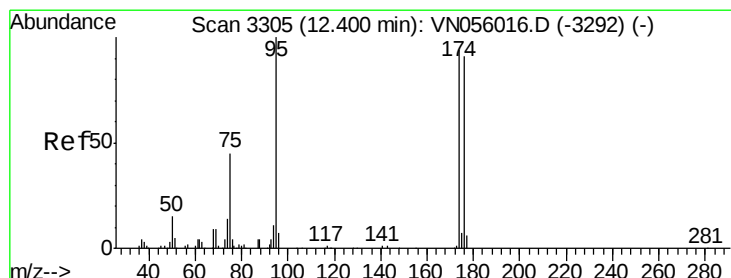
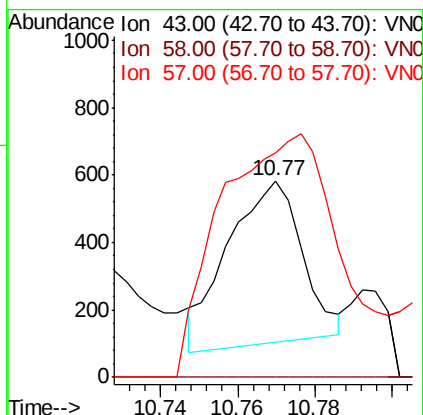
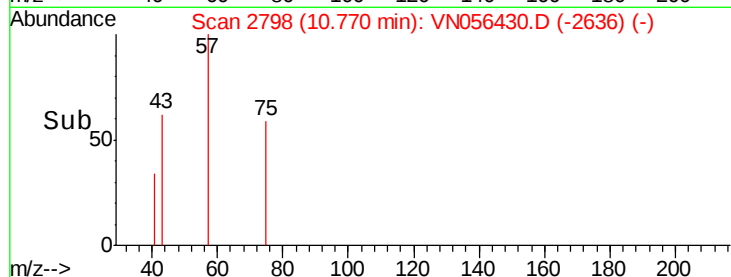
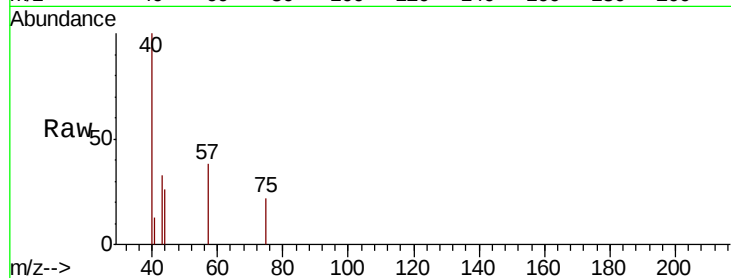
Tot Ion: 43 Resp: 640

Ion Ratio Lower Upper

43 100

58 0.0 45.3 67.9#

57 240.6 15.6 23.4#



#60

4-Bromofluorobenzene

Concen: 24.921 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

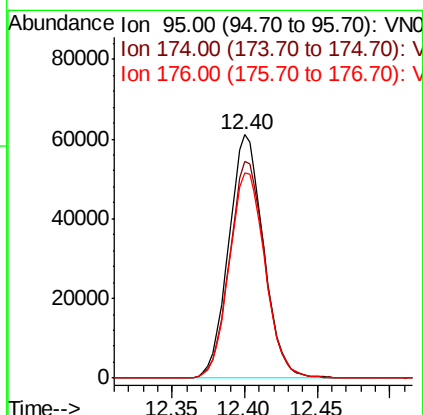
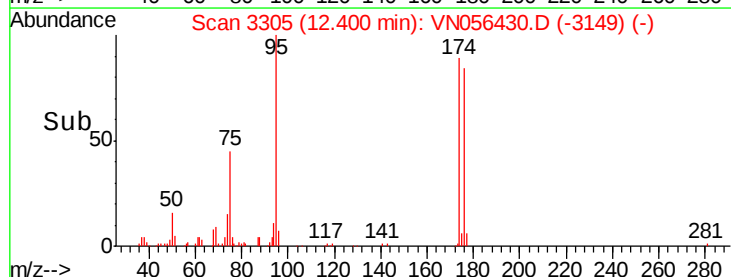
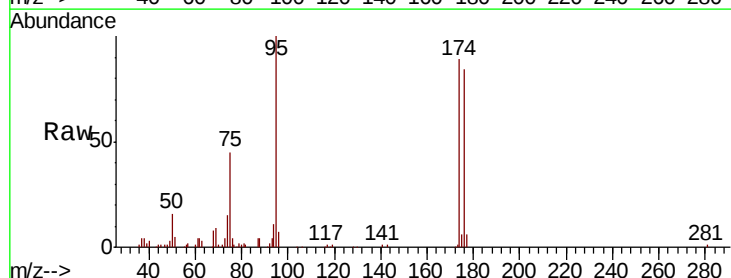
Tgt Ion: 95 Resp: 101957

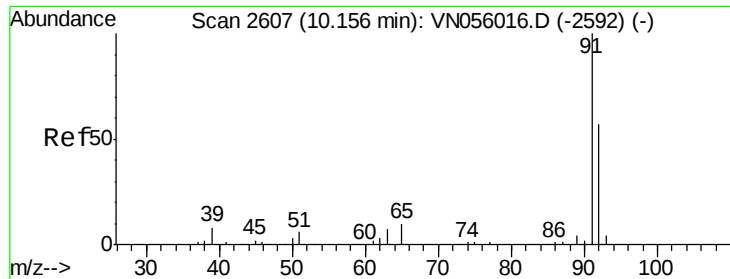
Ion Ratio Lower Upper

95 100

174 90.2 75.4 113.0

176 86.8 73.9 110.9





#62

Toluene

Concen: 1.547 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

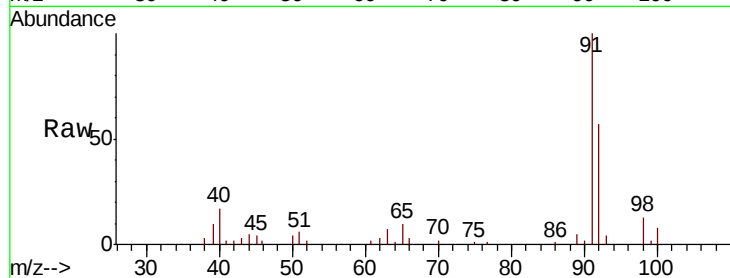
WASTE-SLUDGE 5X

Tot Ion: 91 Resp: 23057

Ion Ratio Lower Upper

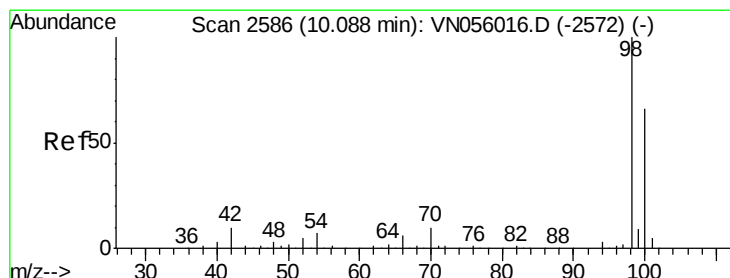
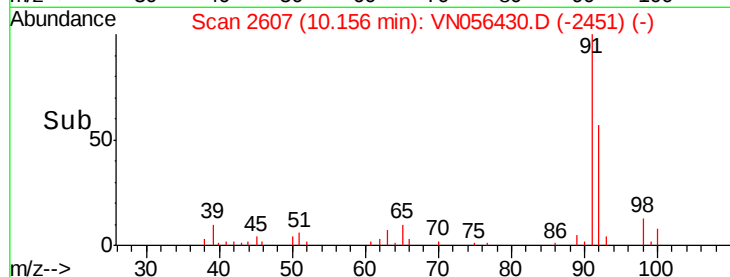
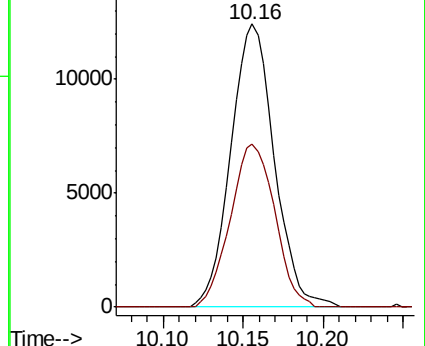
91 100

92 58.7 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0



#63

Toluene-d8

Concen: 31.667 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056430.D

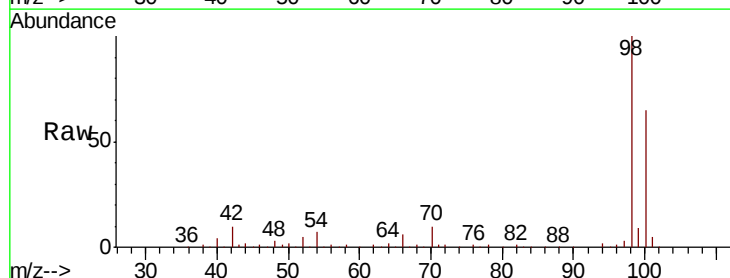
Acq: 21 Jun 2019 16:49

Tgt Ion: 98 Resp: 396518

Ion Ratio Lower Upper

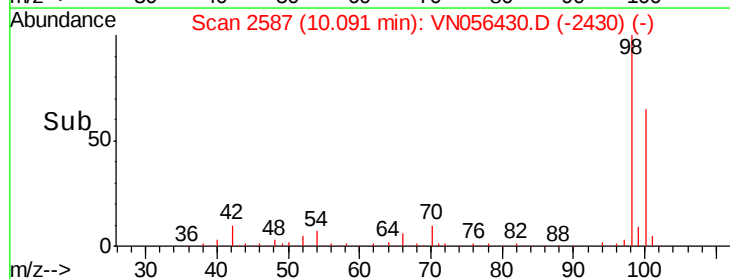
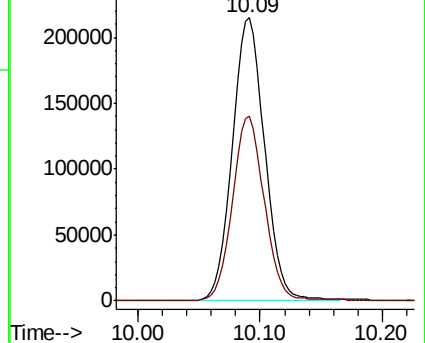
98 100

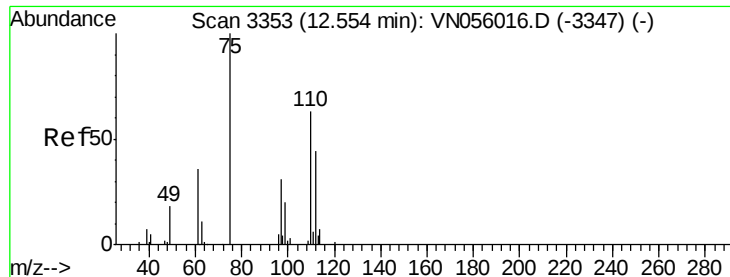
100 64.2 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#72

1,2,3-Trichloropropane

Concen: 11.473 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

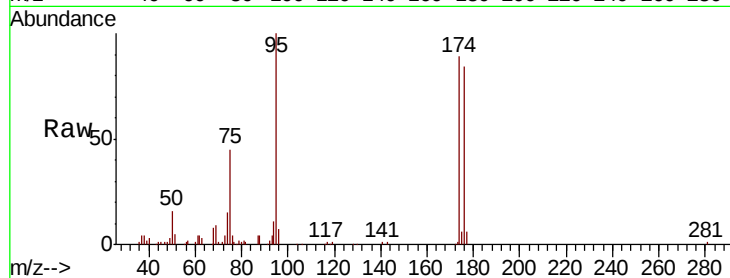
WASTE-SLUDGE 5X

Tot Ion: 75 Resp: 46531

Ion Ratio Lower Upper

75 100

77 1.1 0.0 350.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

30000

25000

20000

15000

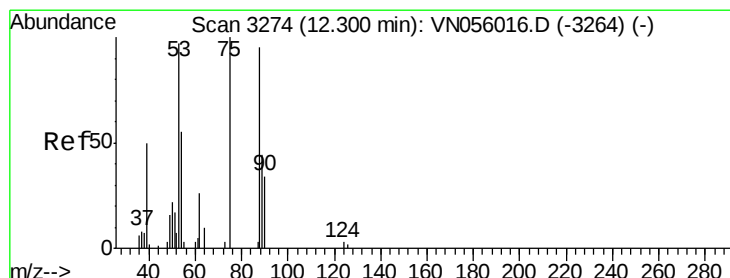
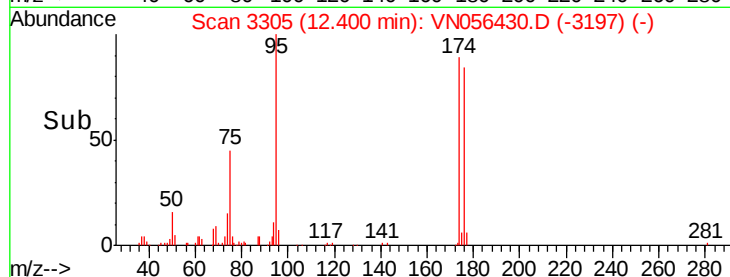
10000

5000

0

12.35 12.40 12.45

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 40.210 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

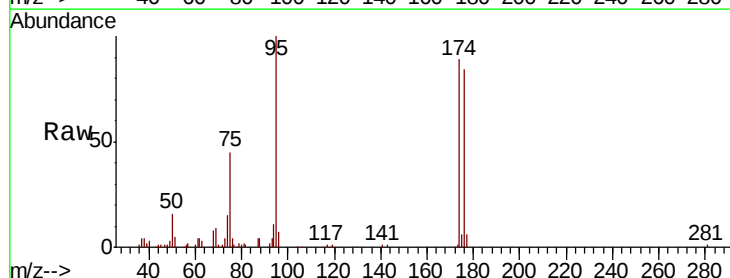
Tgt Ion: 75 Resp: 46531

Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

89 0.0 22.5 67.5#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

30000

25000

20000

15000

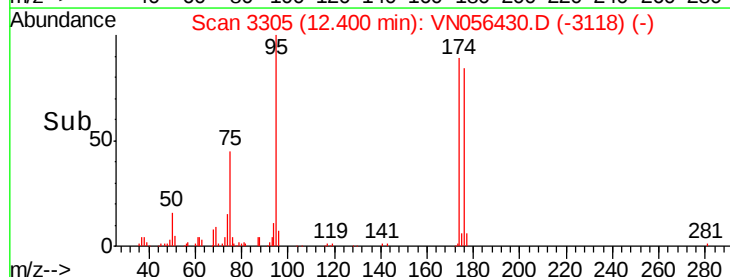
10000

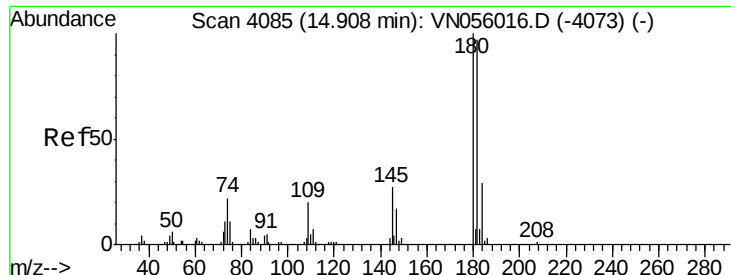
5000

0

12.35 12.40 12.45

Time-->





#89

1,2,4-Trichlorobenzene

Concen: 8.600 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN056430.D

Acq: 21 Jun 2019 16:49

Instrument :

MSVOA_N

ClientSampleId :

WASTE-SLUDGE 5X

Tot Ion:180 Resp: 231

Ion Ratio Lower Upper

180 100

182 83.1 75.0 112.6

145 25.1 22.1 33.1

