

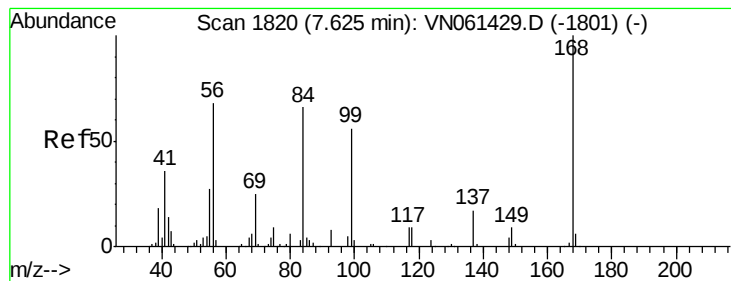
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061517.D
 Acq On : 20 May 2020 21:44
 Operator : JC/MD
 Sample : L2713-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ZIPPER-DRAINS-SLUDGE-PIT

Quant Time: May 21 01:16:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	294119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	539287	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	544732	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	248930	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	197432	44.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.96%	
35) Dibromofluoromethane	7.55	113	155476	55.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.06%	
50) Toluene-d8	10.06	98	673938	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.37	95	264428	54.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.02%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.54	94	230	Below Cal		88
11) Tert butyl alcohol	4.73	59	662	1.309 ug/l #		73
16) Acetone	3.78	43	47823	32.638 ug/l		97
17) Carbon Disulfide	4.01	76	2490	Below Cal #		75
18) Methyl Acetate	4.28	43	2105	Below Cal #		74
20) Methylene Chloride	4.51	84	15485	4.292 ug/l		93
25) 2-Butanone	6.79	43	15154	7.582 ug/l		95
31) Cyclohexane	7.62	56	6397	Below Cal #		22
36) 1,1-Dichloropropene	7.63	75	23580	4.676 ug/l #		50
37) Ethyl Acetate	6.79	43	15154	3.314 ug/l #		67
38) Carbon Tetrachloride	7.63	117	30860	6.646 ug/l #		15
43) Isopropyl Acetate	8.13	43	74453	9.335 ug/l #		90
45) 1,2-Dichloropropane	9.23	63	1642	0.432 ug/l #		43
48) Methyl methacrylate	9.14	41	5295	1.437 ug/l #		26
51) 4-Methyl-2-Pentanone	9.95	43	20347	4.683 ug/l		95
54) cis-1,3-Dichloropropene	9.87	75	36555	5.585 ug/l #		58
57) 1,3-Dichloropropane	10.74	76	5541	0.869 ug/l #		42
59) 2-Hexanone	10.74	43	68031	21.642 ug/l #		53
71) Bromoform	12.38	173	1833	2.588 ug/l #		1
74) N-amyl acetate	12.00	43	4855	0.664 ug/l #		42
76) 1,2,3-Trichloropropane	12.37	75	134555	25.191 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.37	75	134555	66.826 ug/l #		12
86) p-Isopropyltoluene	13.26	119	5777	0.343 ug/l #		70
95) Naphthalene	15.10	128	3505	0.267 ug/l #		95

(#) = 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: VN061517.D

Acq: 20 May 2020 21:44

Instrument :

MSVOA_N

ClientSampleId :

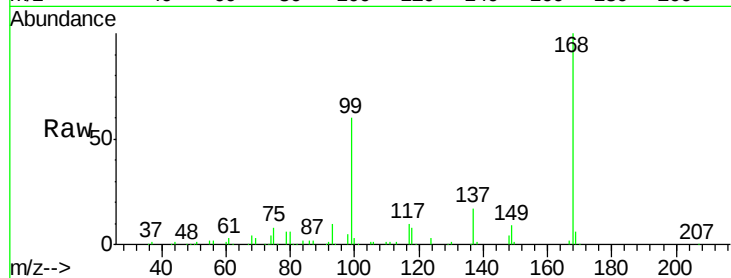
ZIPPER-DRAINS-SLUDGE-PIT

Tot Ion:168 Resp: 294119

Ion Ratio Lower Upper

168 100

99 59.5 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

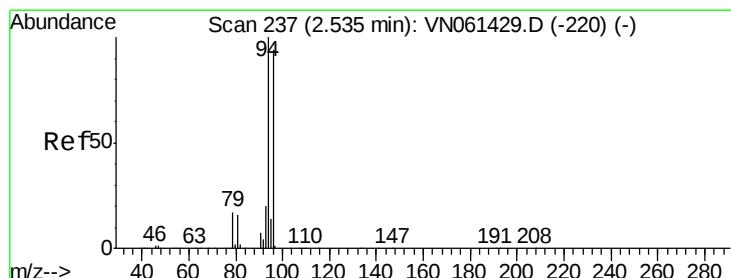
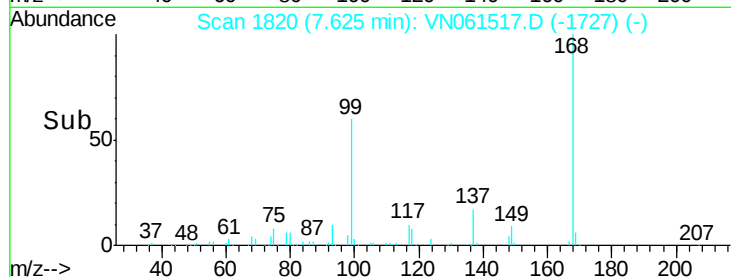
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN061517.D

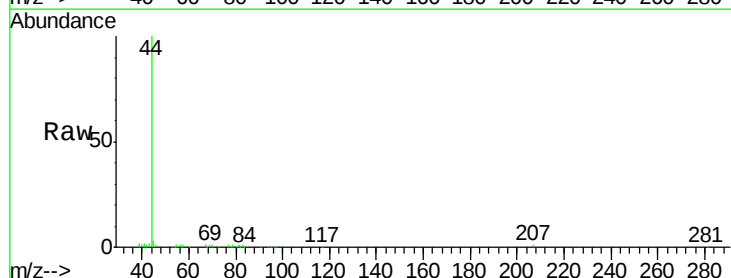
Acq: 20 May 2020 21:44

Tgt Ion: 94 Resp: 230

Ion Ratio Lower Upper

94 100

96 81.8 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

300

250

200

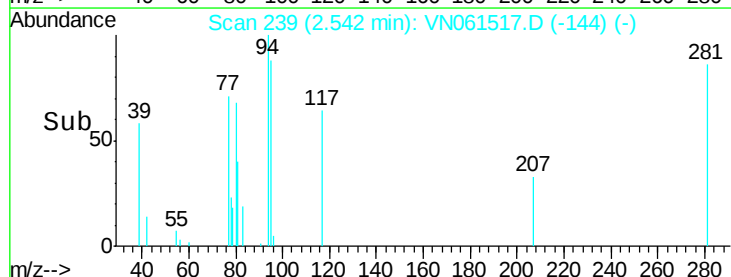
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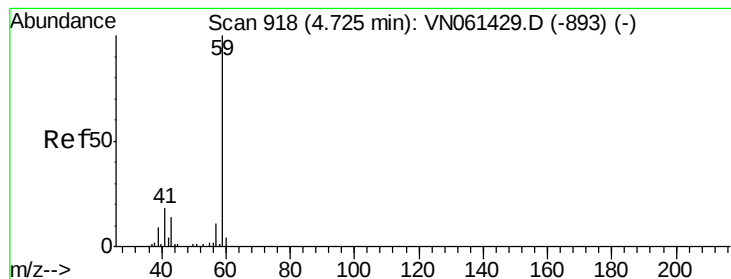
100

50

0

Time-->



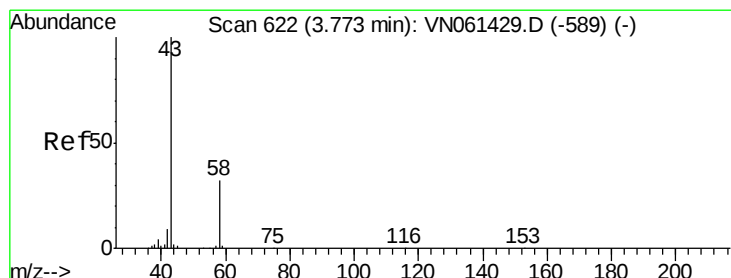
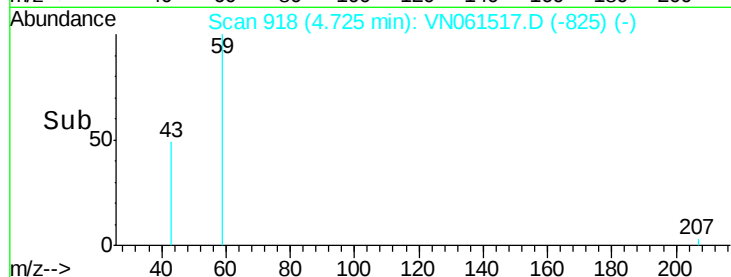
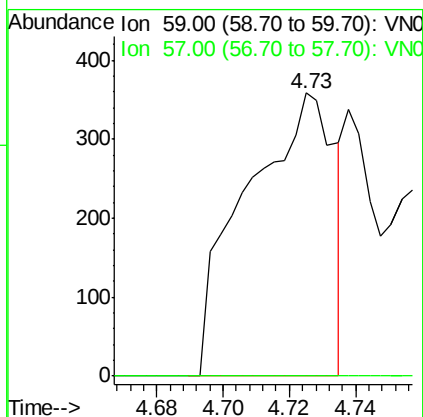
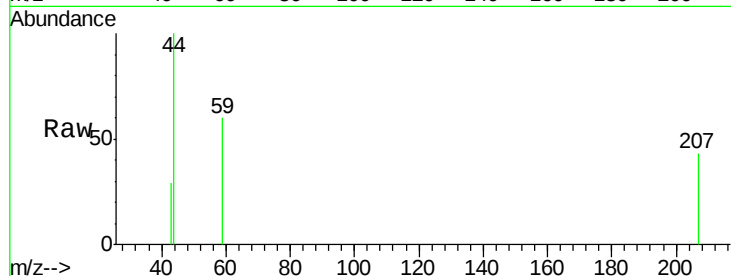


#11

Tert butyl alcohol
 Concen: 1.309 ug/l
 RT: 4.73 min Scan# 918
 Delta R.T. 0.00 min
 Lab File: VN061517.D
 Acq: 20 May 2020 21:44

Instrument :
 MSVOA_N
 ClientSampleId :
 ZIPPER-DRAINS-SLUDGE-PIT

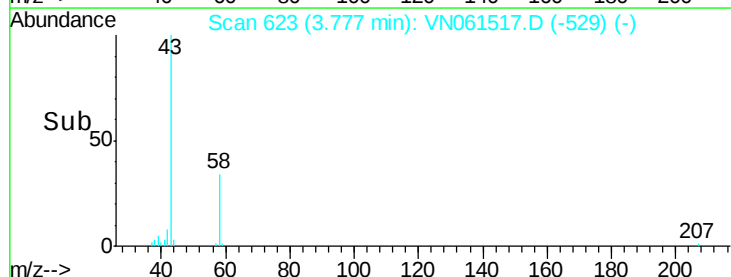
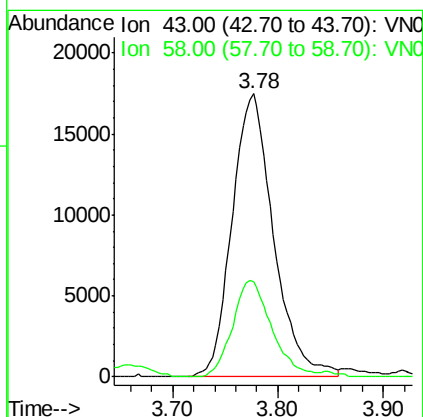
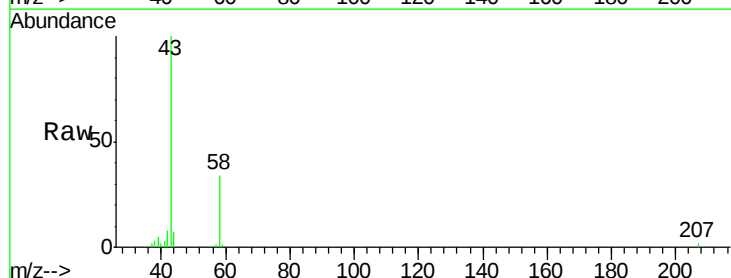
Tot Ion: 59 Resp: 662
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

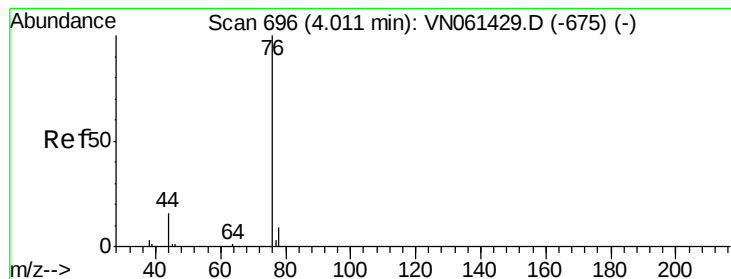


#16

Acetone
 Concen: 32.638 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN061517.D
 Acq: 20 May 2020 21:44

Tgt Ion: 43 Resp: 47823
 Ion Ratio Lower Upper
 43 100
 58 33.8 25.6 38.4





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 697

Delta R.T. 0.00 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

Instrument :

MSVOA_N

ClientSampleId :

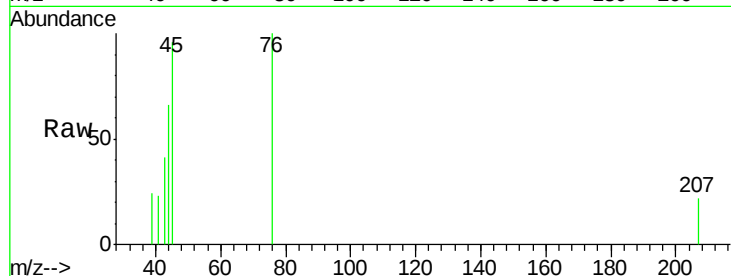
ZIPPER-DRAINS-SLUDGE-PIT

Tot Ion: 76 Resp: 2490

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN061429.D (-675) (-)

Ion 77.90 (77.60 to 78.60): VN061429.D (-675) (-)

4.01

1200

1000

800

600

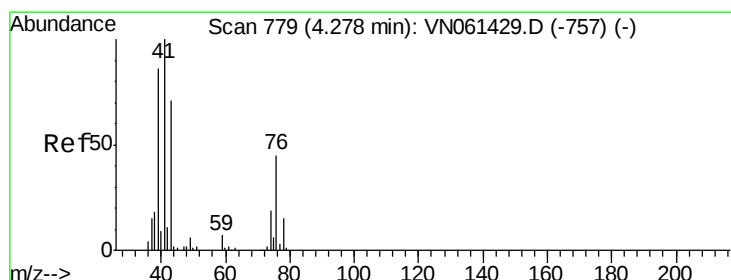
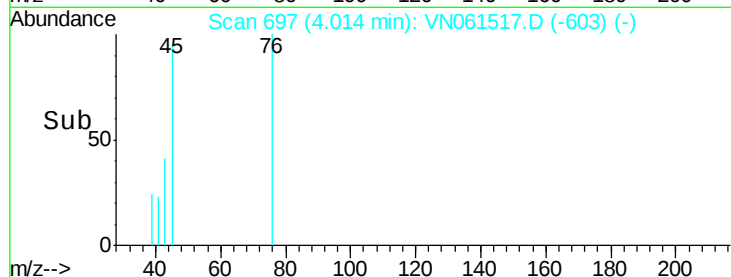
400

200

0

3.95 4.00 4.05

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN061517.D

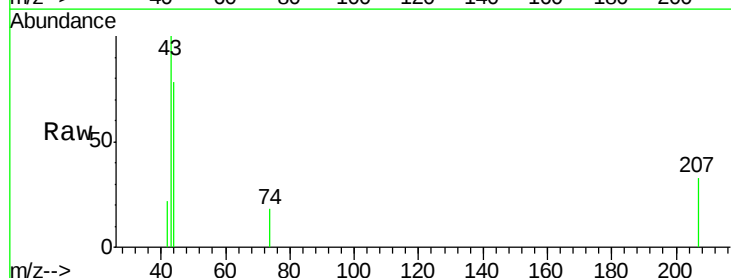
Acq: 20 May 2020 21:44

Tgt Ion: 43 Resp: 2105

Ion Ratio Lower Upper

43 100

74 13.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN061517.D (-686) (-)

Ion 74.00 (73.70 to 74.70): VN061517.D (-686) (-)

4.28

1200

1000

800

600

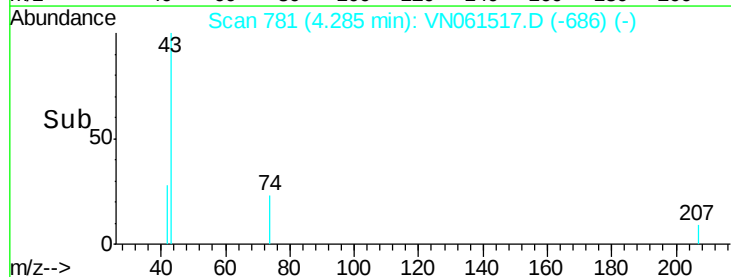
400

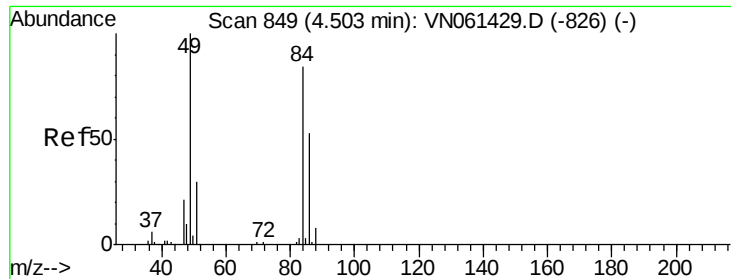
200

0

4.25 4.30 4.35

Time-->

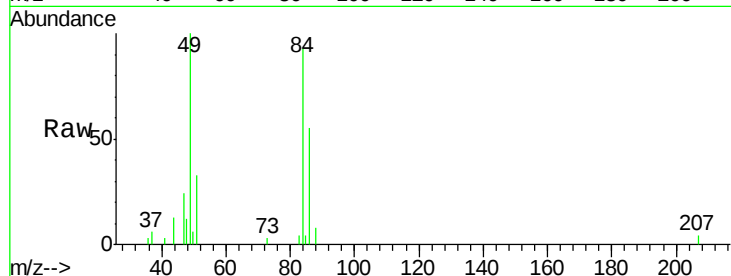




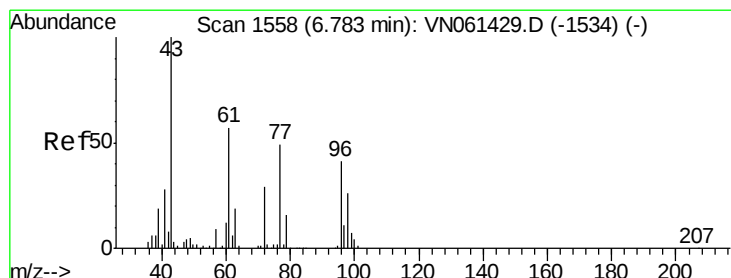
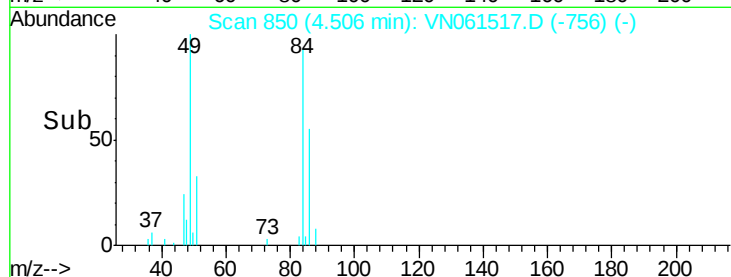
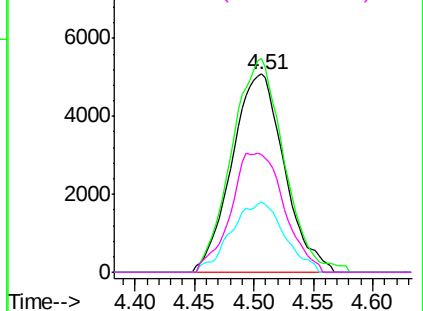
#20
Methvlene Chloride
Concen: 4.292 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN061517.D
Acq: 20 May 2020 21:44

Instrument :
MSVOA_N
ClientSampleId :
ZIPPER-DRAINS-SLUDGE-PIT

Tot Ion: 84 Resp: 15485
Ion Ratio Lower Upper
84 100
49 107.7 95.3 142.9
51 35.2 29.0 43.6
86 59.3 50.2 75.2

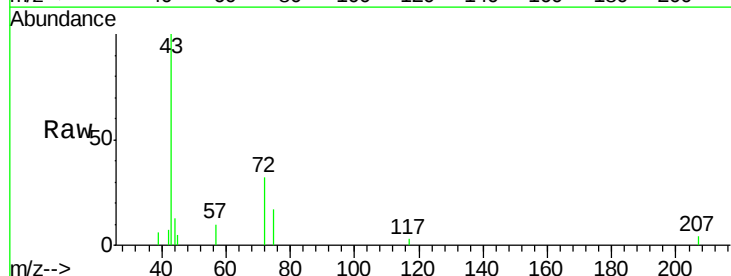


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

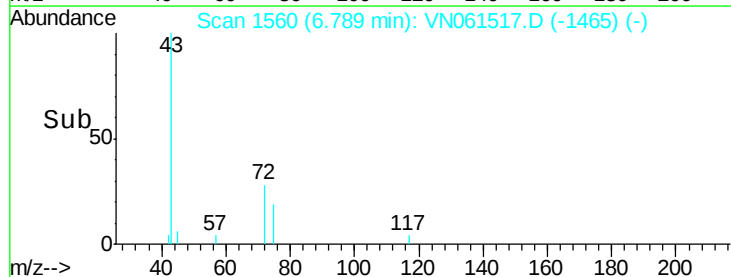
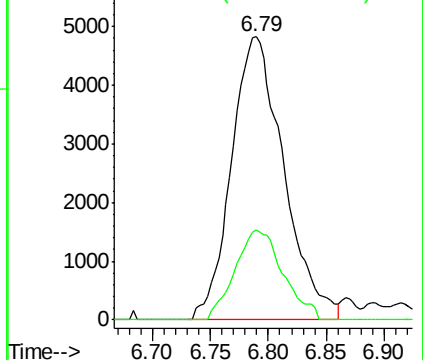


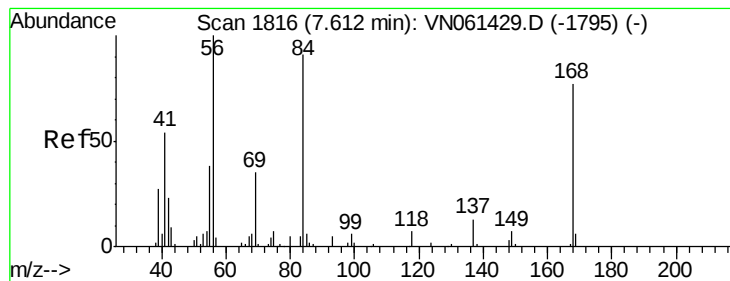
#25
2-Butanone
Concen: 7.582 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN061517.D
Acq: 20 May 2020 21:44

Tgt Ion: 43 Resp: 15154
Ion Ratio Lower Upper
43 100
72 31.7 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

Instrument :

MSVOA_N

ClientSampleId :

ZIPPER-DRAINS-SLUDGE-PIT

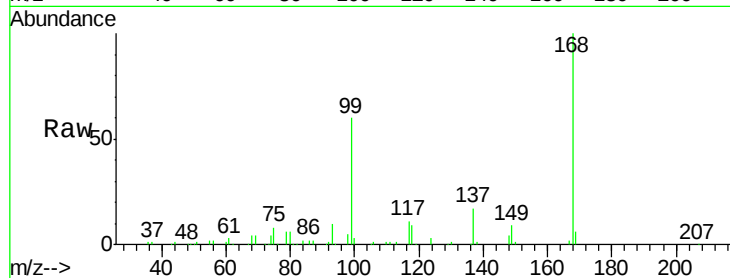
Tot Ion: 56 Resp: 6397

Ion Ratio Lower Upper

56 100

69 163.4 27.8 41.6#

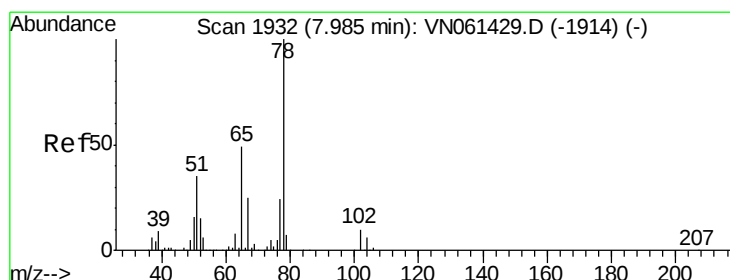
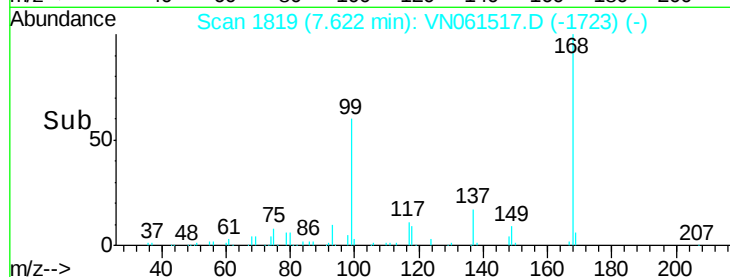
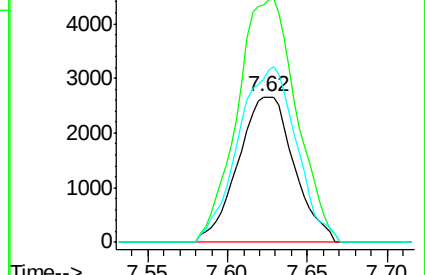
84 112.4 72.7 109.1#



Abundance Ion 56.00 (55.70 to 56.70): VN061429.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN061429.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN061429.D (-1795) (-)



#33

1,2-Dichloroethane-d4

Concen: 44.977 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. 0.00 min

Lab File: VN061517.D

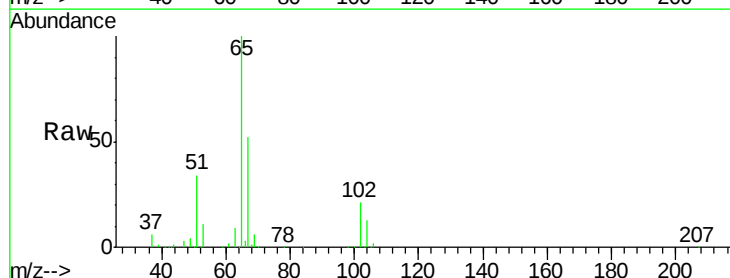
Acq: 20 May 2020 21:44

Tgt Ion: 65 Resp: 197432

Ion Ratio Lower Upper

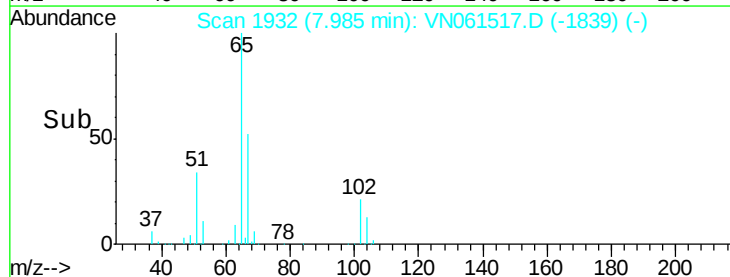
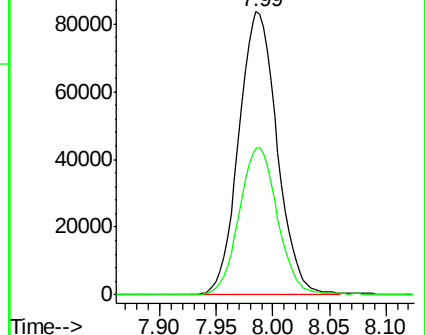
65 100

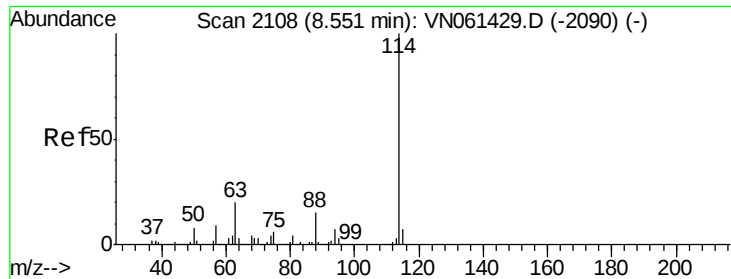
67 51.8 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN061429.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN061429.D (-1914) (-)

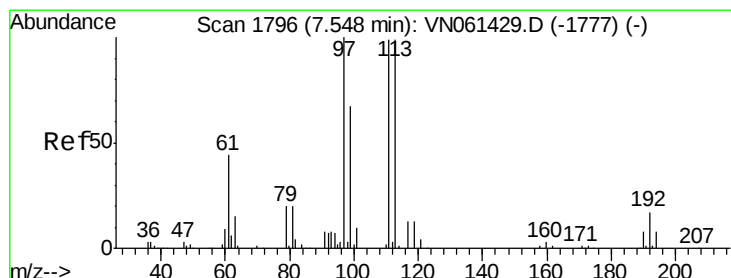
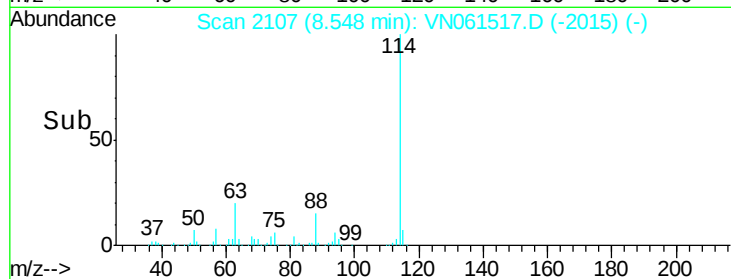
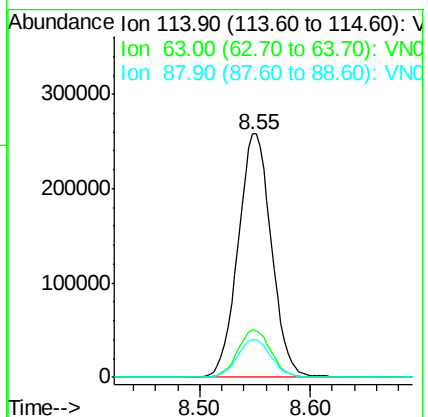
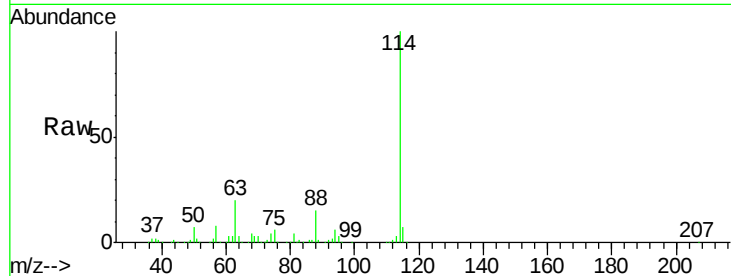




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061517.D
 Acq: 20 May 2020 21:44

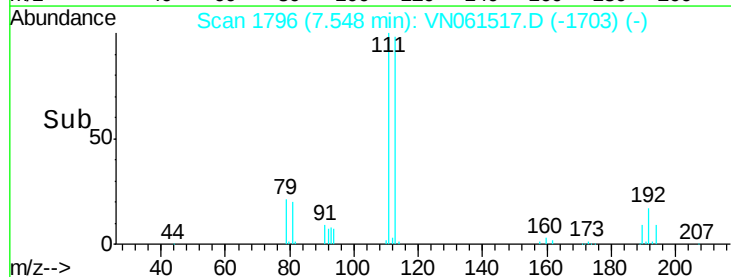
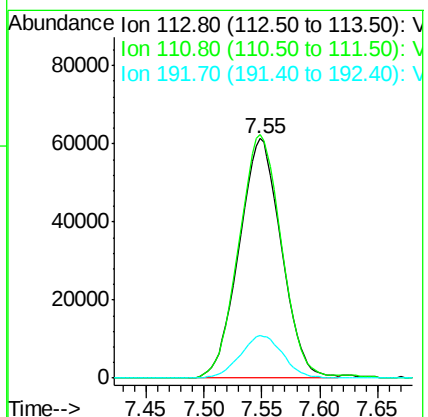
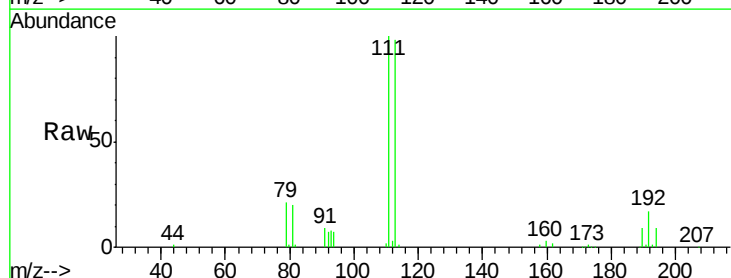
Instrument :
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 ZIPPER-DRAINS-SLUDGE-PIT

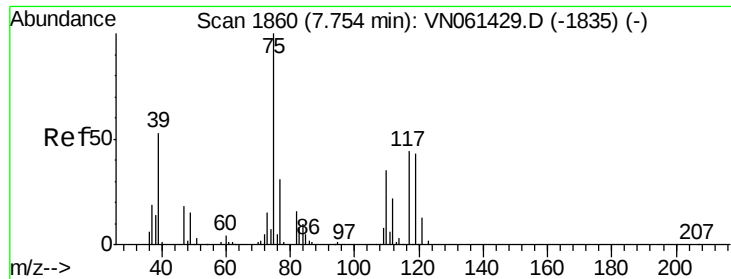
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	40.8
88	15.5	0.0	30.8



#35
 Dibromofluoromethane
 Concen: 55.032 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061517.D
 Acq: 20 May 2020 21:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	80.6	121.0
192	17.7	13.2	19.8

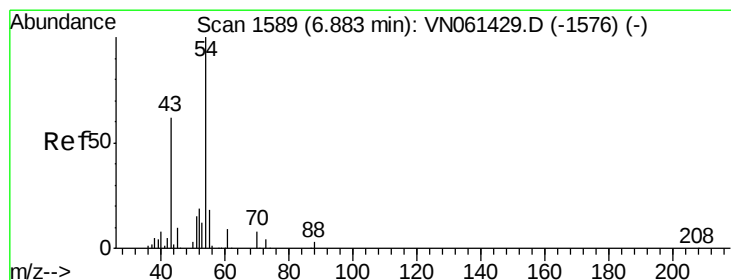
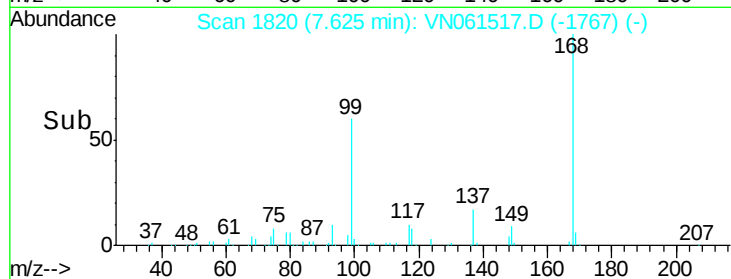
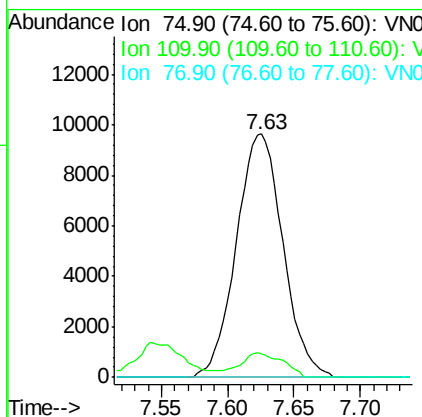
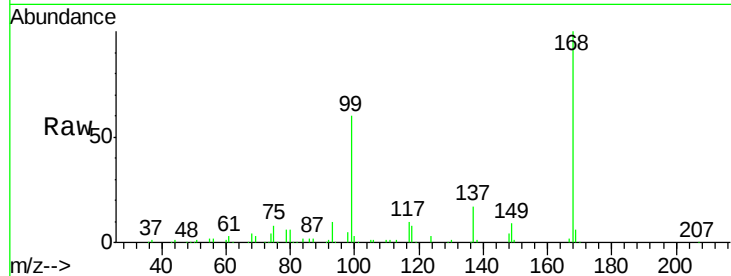




#36
 1,1-Dichloropropene
 Concen: 4.676 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061517.D
 Acq: 20 May 2020 21:44

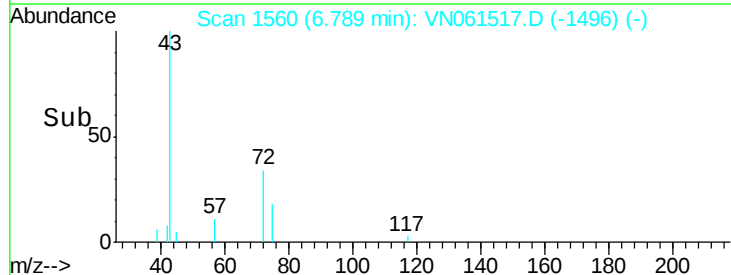
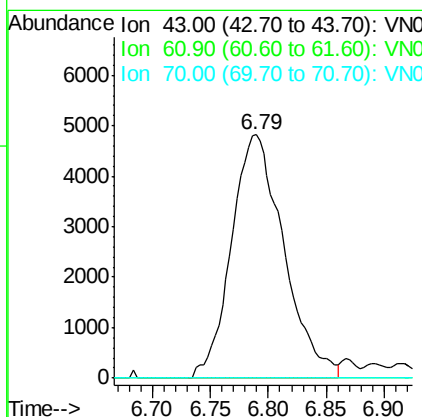
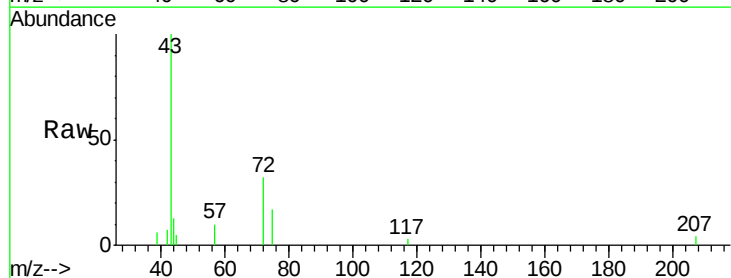
Instrument :
 MSVOA_N
 ClientSampleId :
 ZIPPER-DRAINS-SLUDGE-PIT

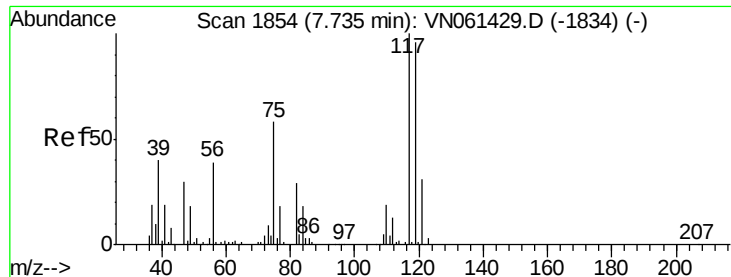
Tot Ion: 75 Resp: 23580
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.3 51.9#
 77 0.0 24.9 37.3#



#37
 Ethyl Acetate
 Concen: 3.314 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. -0.09 min
 Lab File: VN061517.D
 Acq: 20 May 2020 21:44

Tgt Ion: 43 Resp: 15154
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.7 17.5#
 70 0.0 9.2 13.8#





#38

Carbon Tetrachloride

Concen: 6.646 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

Instrument :

MSVOA_N

ClientSampleId :

ZIPPER-DRAINS-SLUDGE-PIT

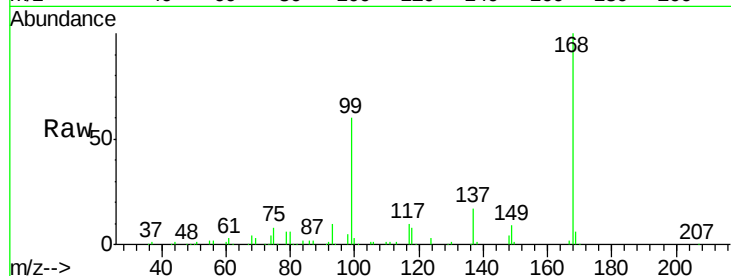
Tot Ion:117 Resp: 30860

Ion Ratio Lower Upper

117 100

119 4.0 77.0 115.6#

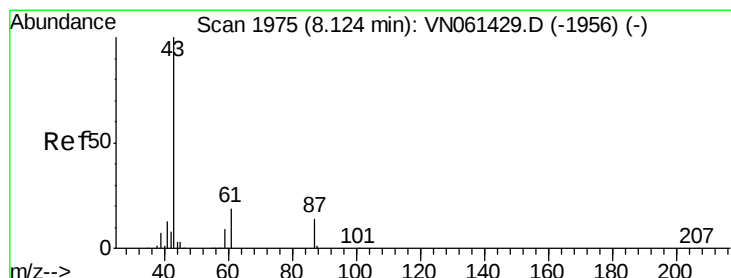
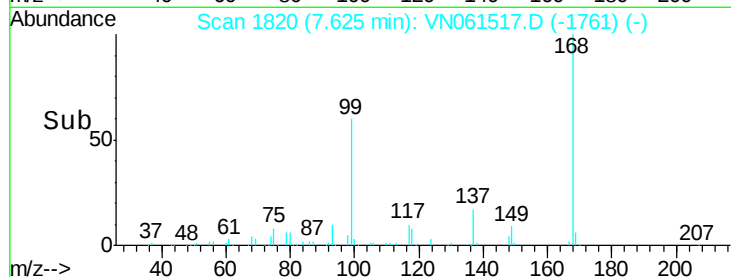
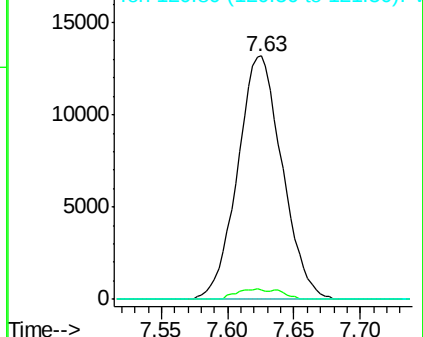
121 0.0 24.7 37.1#



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: 9.335 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

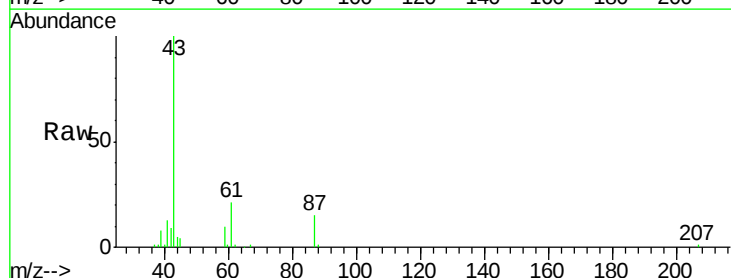
Tgt Ion: 43 Resp: 74453

Ion Ratio Lower Upper

43 100

61 21.4 23.0 34.4#

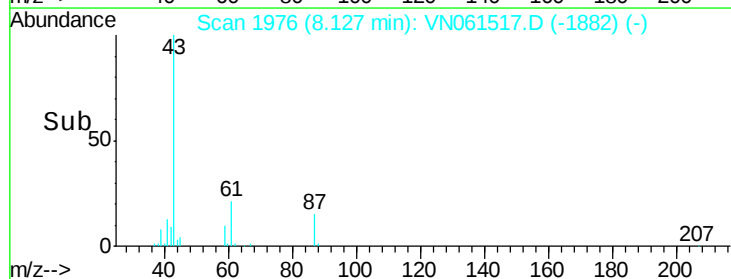
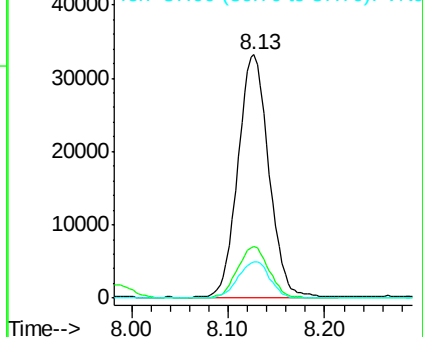
87 15.1 11.6 17.4

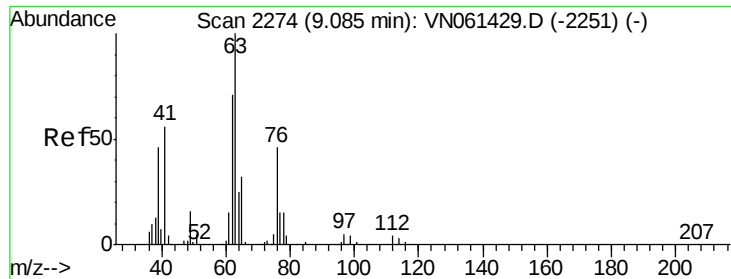


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.432 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

Instrument :

MSVOA_N

ClientSampleId :

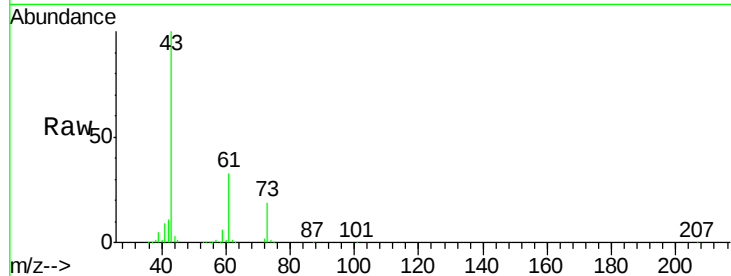
ZIPPER-DRAINS-SLUDGE-PIT

Tot Ion: 63 Resp: 1642

Ion Ratio Lower Upper

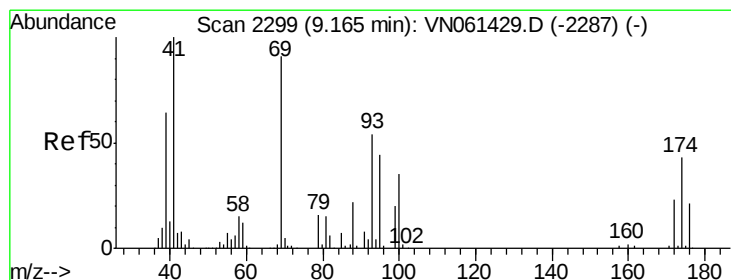
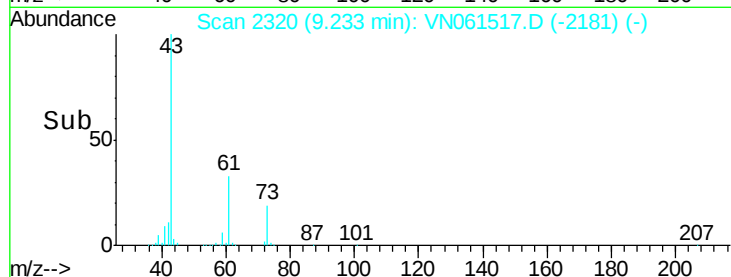
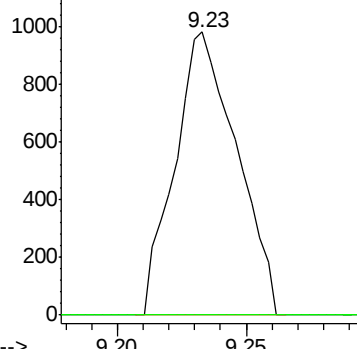
63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.437 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

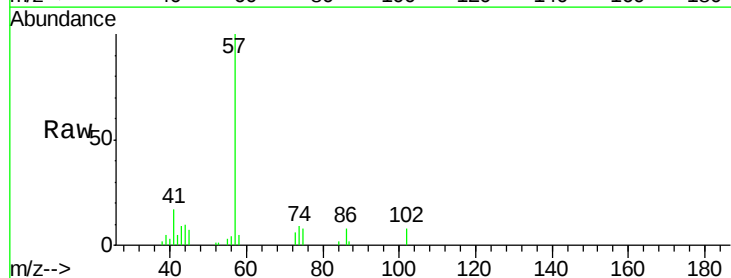
Tgt Ion: 41 Resp: 5295

Ion Ratio Lower Upper

41 100

69 0.0 75.3 112.9#

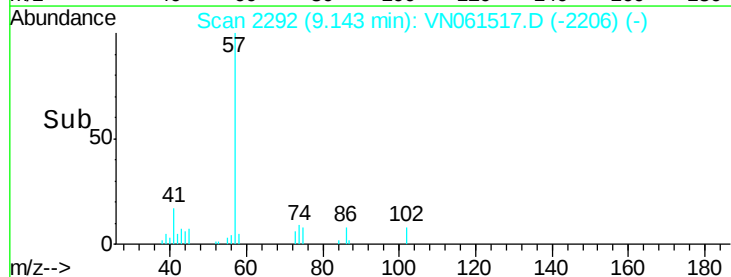
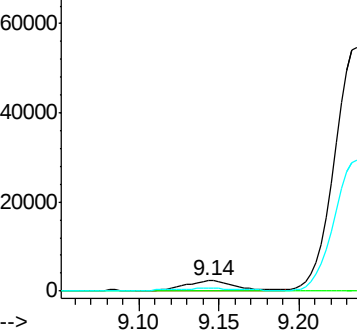
39 33.0 52.6 79.0#

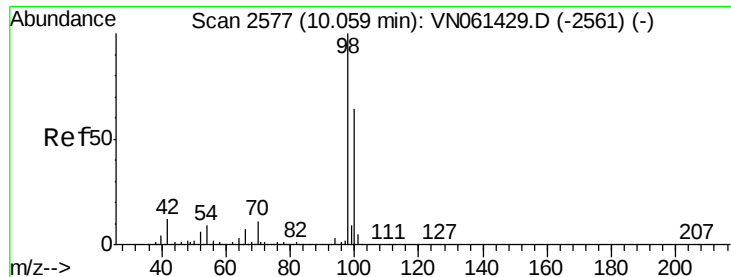


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 51.431 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

Instrument :

MSVOA_N

ClientSampleId :

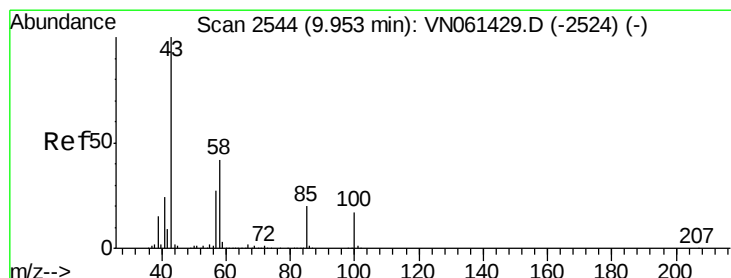
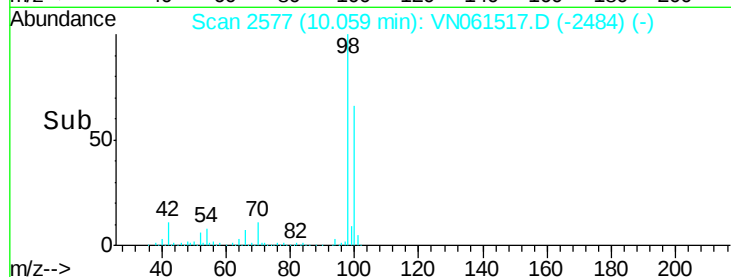
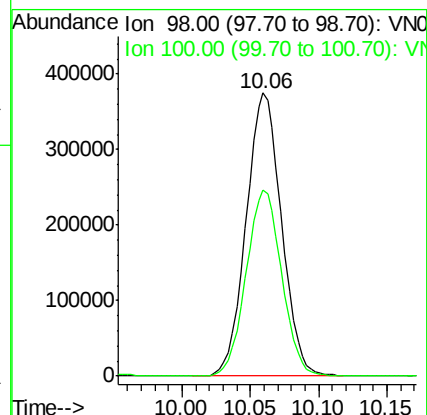
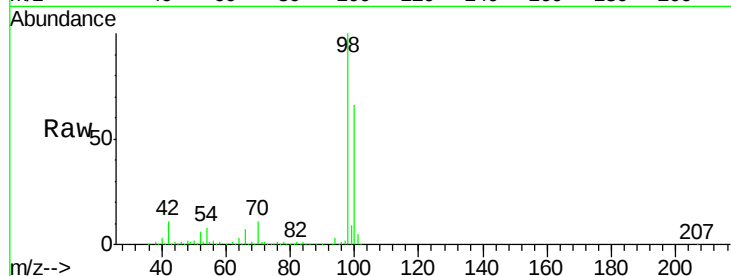
ZIPPER-DRAINS-SLUDGE-PIT

Tot Ion: 98 Resp: 673938

Ion Ratio Lower Upper

98 100

100 66.3 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 4.683 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061517.D

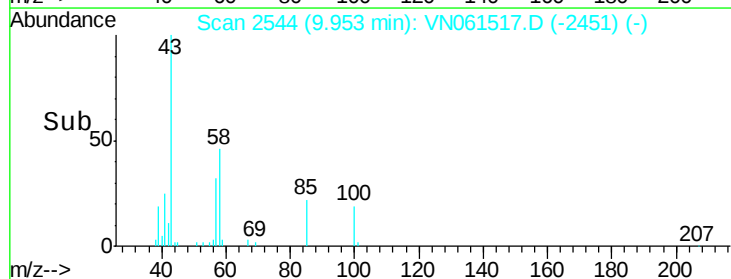
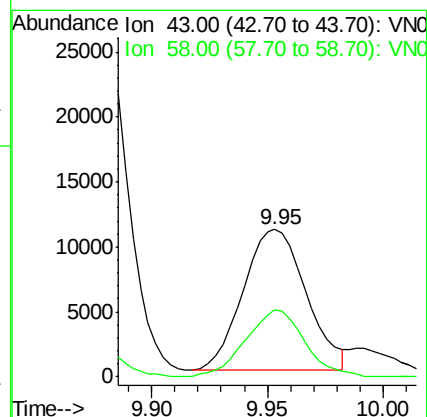
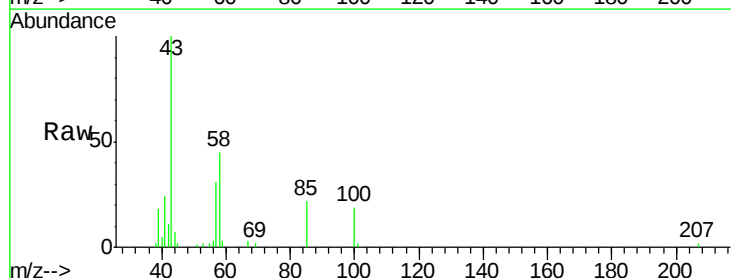
Acq: 20 May 2020 21:44

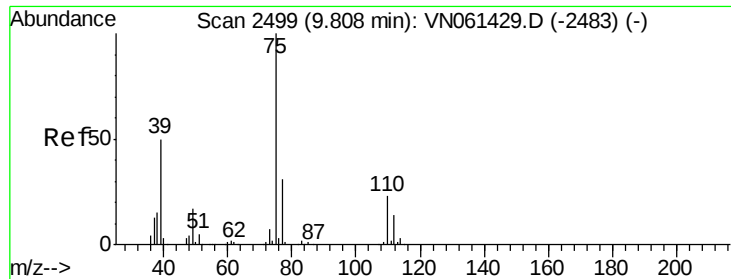
Tgt Ion: 43 Resp: 20347

Ion Ratio Lower Upper

43 100

58 44.8 33.4 50.2



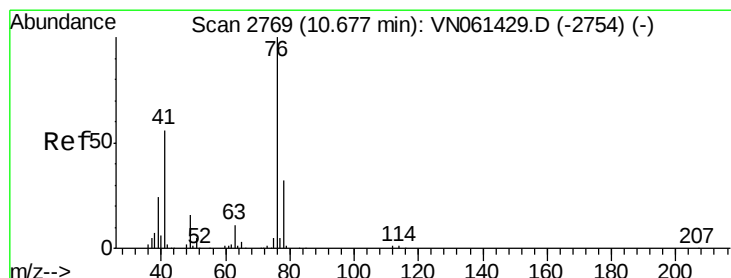
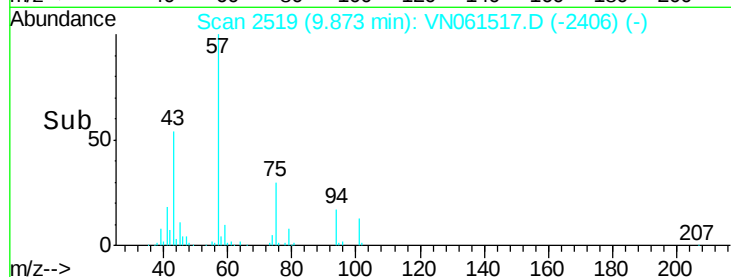
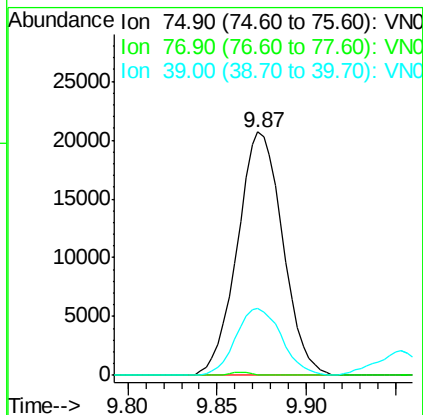
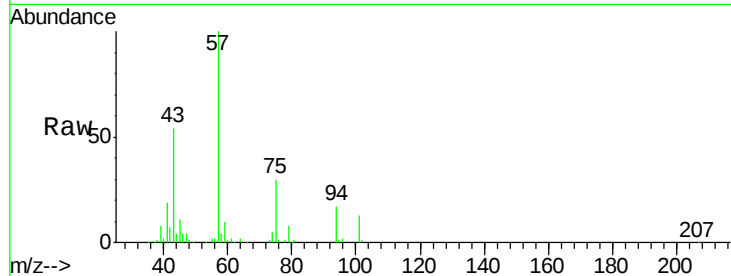


#54

cis-1,3-Dichloropropene
 Concen: 5.585 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061517.D
 Acq: 20 May 2020 21:44

Instrument :
 MSVOA_N
 ClientSampleId :
 ZIPPER-DRAINS-SLUDGE-PIT

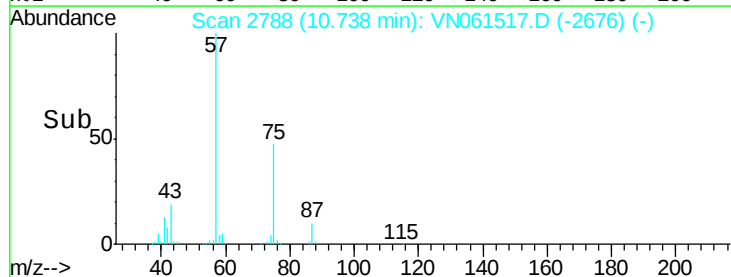
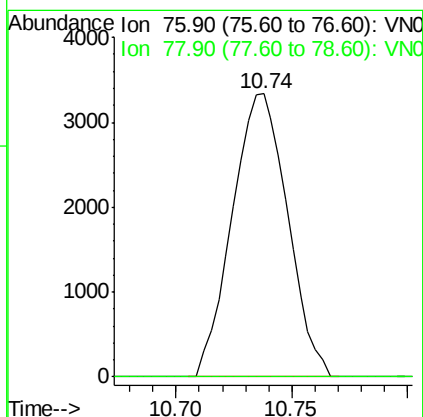
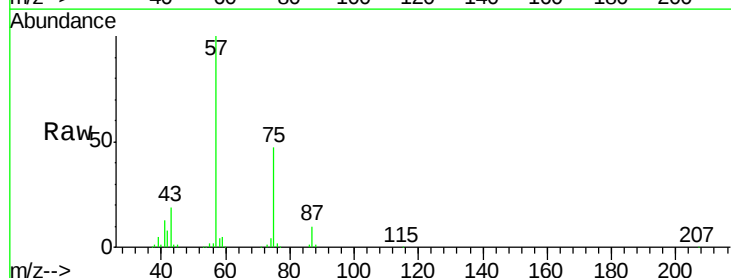
Tot Ion: 75 Resp: 36555
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 27.5 39.8 59.6#

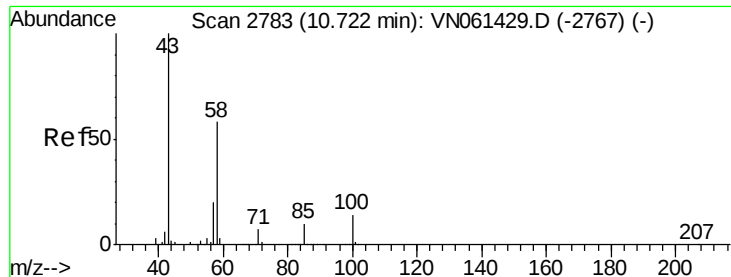


#57

1,3-Dichloropropane
 Concen: 0.869 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061517.D
 Acq: 20 May 2020 21:44

Tgt Ion: 76 Resp: 5541
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

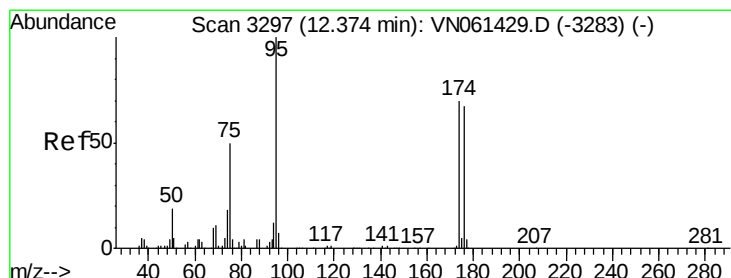
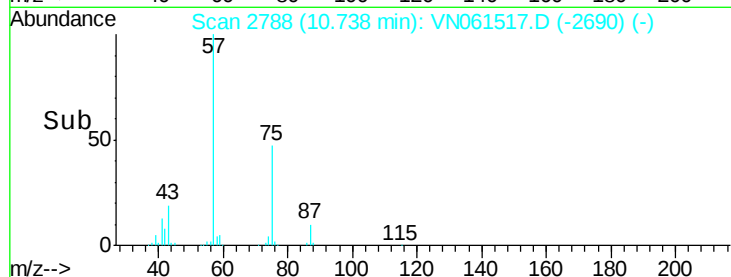
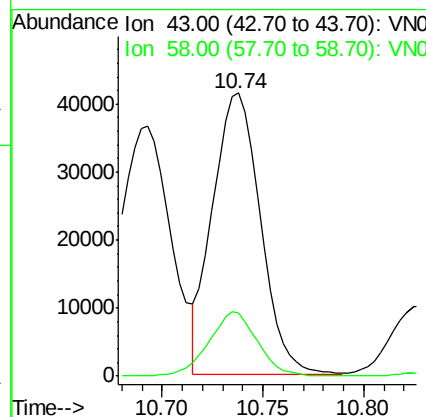
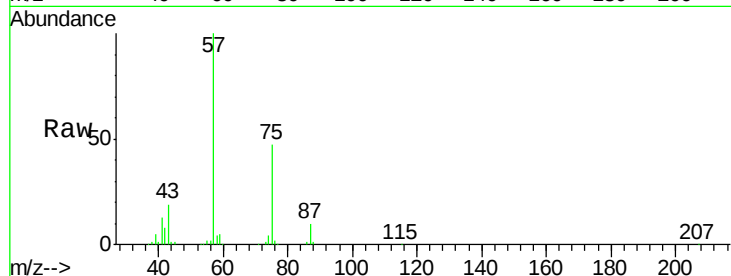




#59
2-Hexanone
Concen: 21.642 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN061517.D
Acq: 20 May 2020 21:44

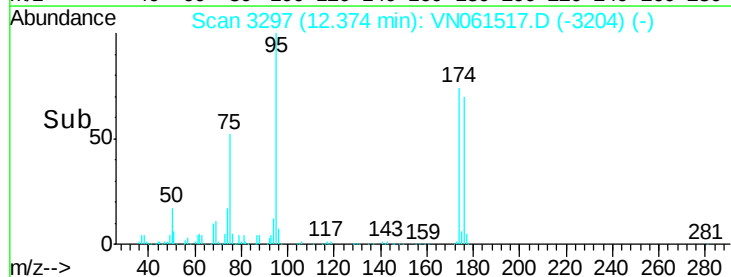
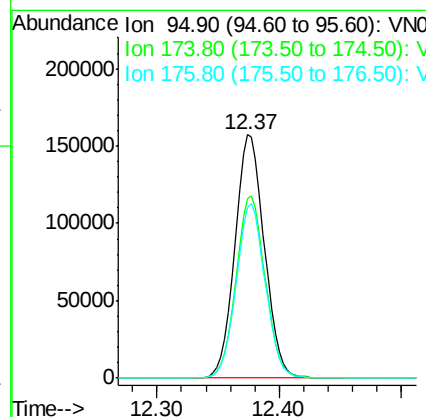
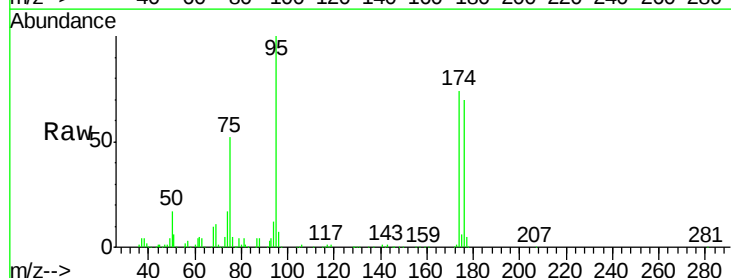
Instrument :
MSVOA_N
ClientSampleId :
ZIPPER-DRAINS-SLUDGE-PIT

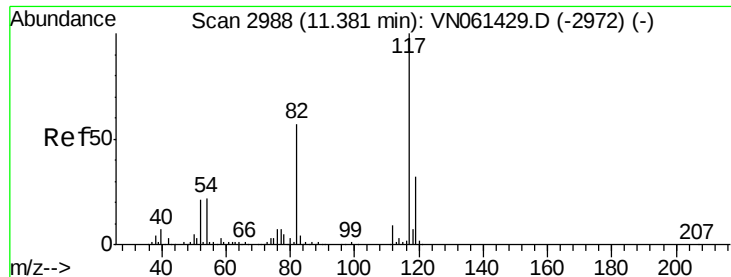
Tot Ion: 43 Resp: 68031
Ion Ratio Lower Upper
43 100
58 23.4 29.2 87.6#



#62
4-Bromofluorobenzene
Concen: 54.012 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.00 min
Lab File: VN061517.D
Acq: 20 May 2020 21:44

Tgt Ion: 95 Resp: 264428
Ion Ratio Lower Upper
95 100
174 74.1 0.0 141.2
176 70.7 0.0 137.6

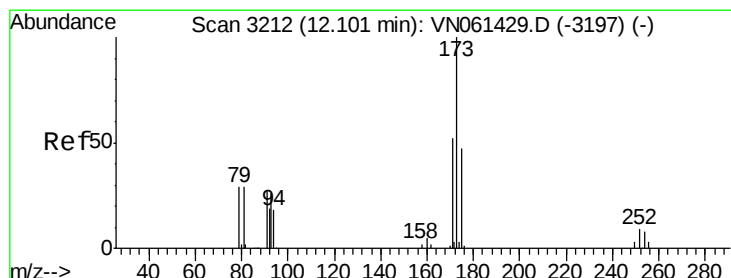
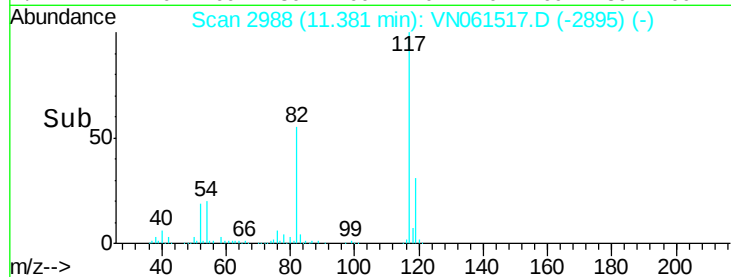
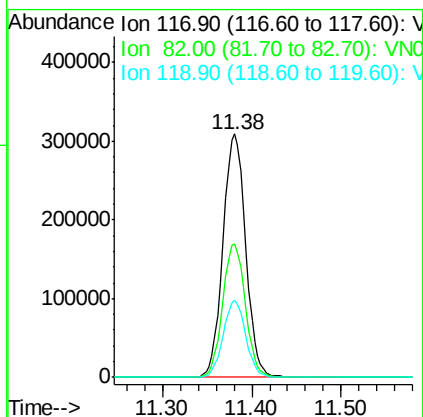
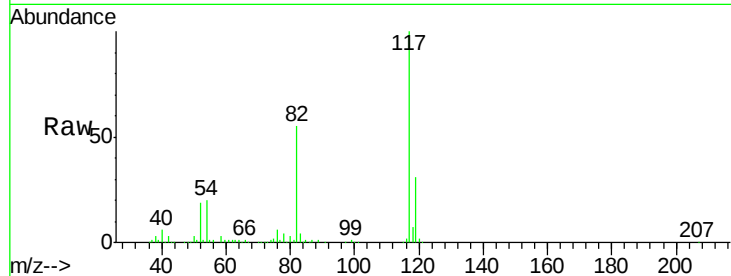




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061517.D
Acq: 20 May 2020 21:44

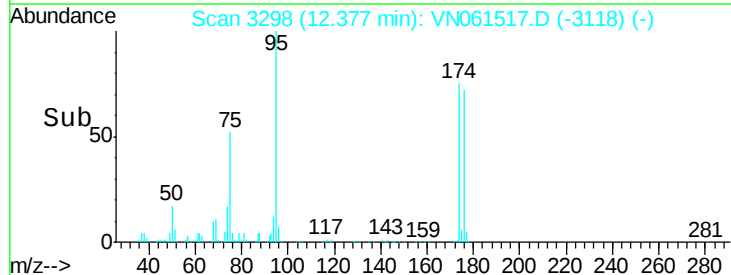
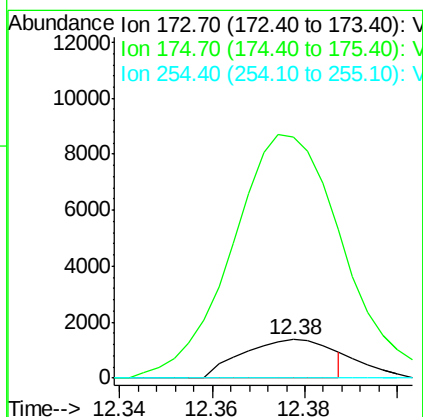
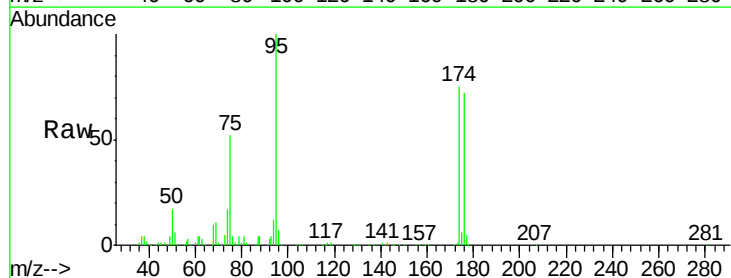
Instrument :
MSVOA_N
ClientSampleId :
ZIPPER-DRAINS-SLUDGE-PIT

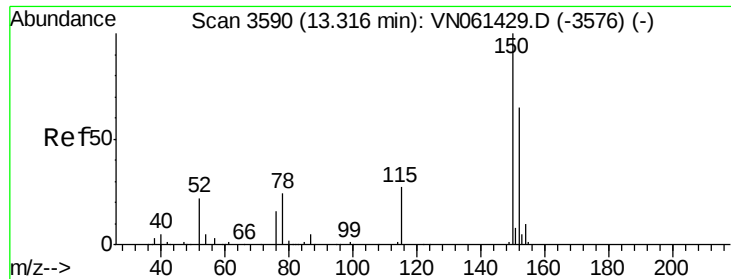
Tot Ion:117 Resp: 544732
Ion Ratio Lower Upper
117 100
82 54.8 45.2 67.8
119 31.5 25.3 37.9



#71
Bromoform
Concen: 2.588 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061517.D
Acq: 20 May 2020 21:44

Tgt Ion:173 Resp: 1833
Ion Ratio Lower Upper
173 100
175 685.1 23.9 71.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

Instrument :

MSVOA_N

ClientSampleId :

ZIPPER-DRAINS-SLUDGE-PIT

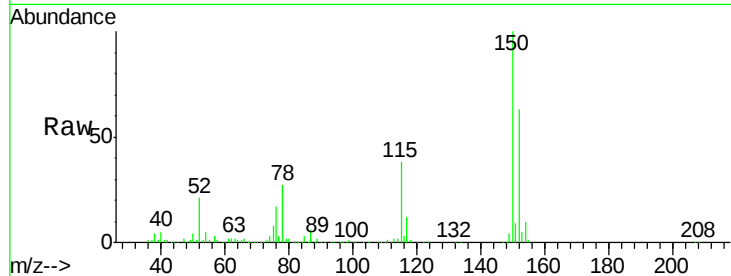
Tot Ion:152 Resp: 248930

Ion Ratio Lower Upper

152 100

115 60.8 30.9 92.5

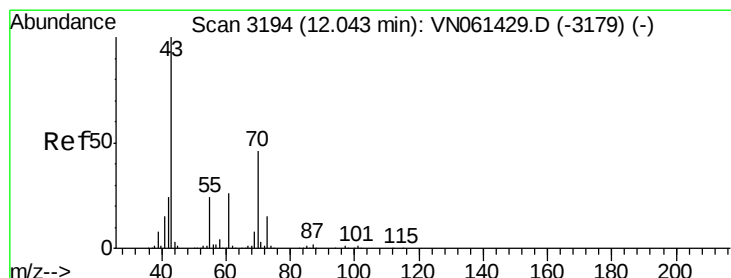
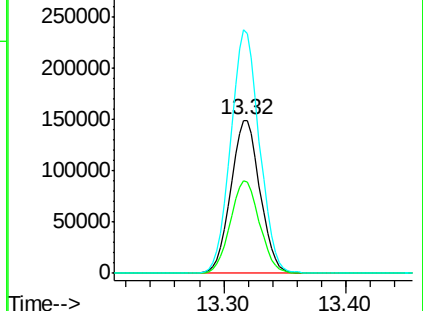
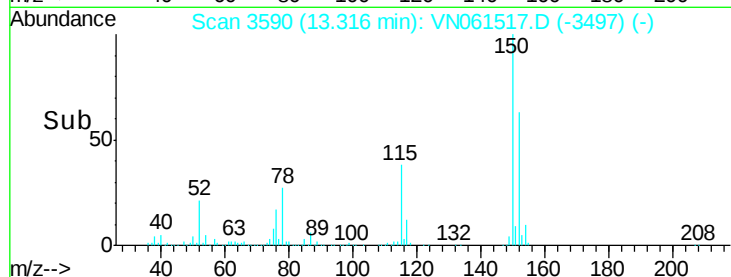
150 156.4 0.0 349.2



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



#74

N-ethyl acetate

Concen: 0.664 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

Tgt Ion: 43 Resp: 4855

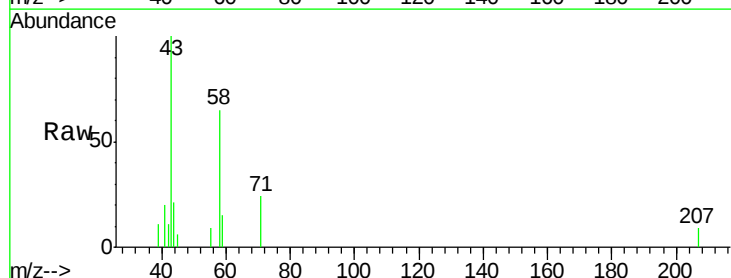
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 2.9 19.5 29.3#

61 0.0 20.8 31.2#

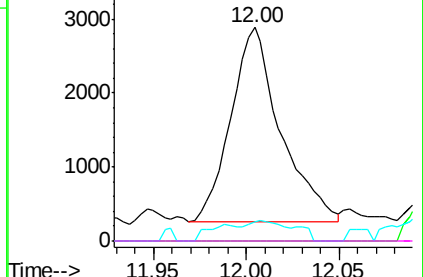
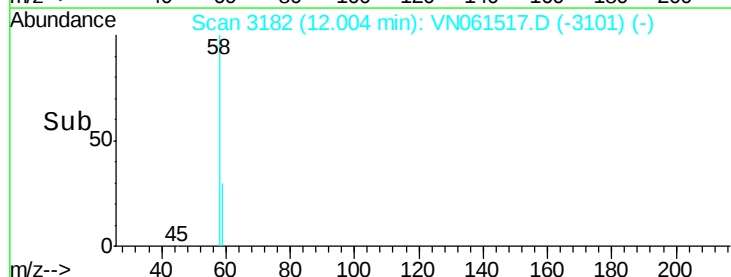


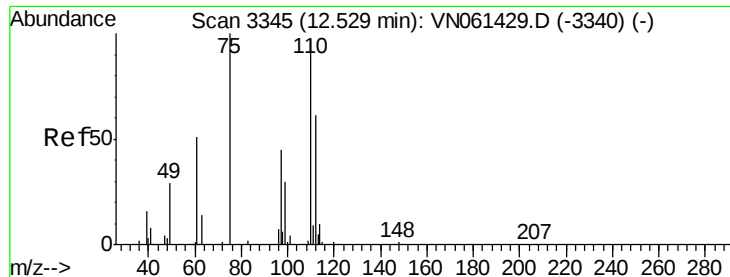
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.191 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

Instrument :

MSVOA_N

ClientSampleId :

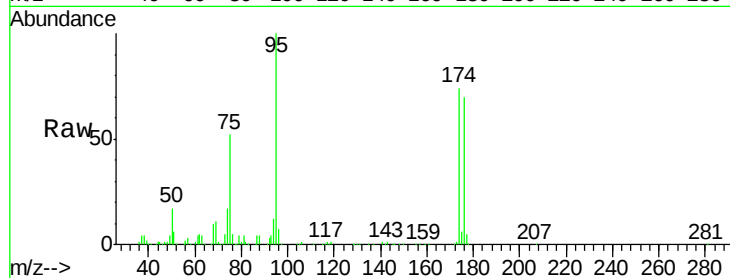
ZIPPER-DRAINS-SLUDGE-PIT

Tot Ion: 75 Resp: 134555

Ion Ratio Lower Upper

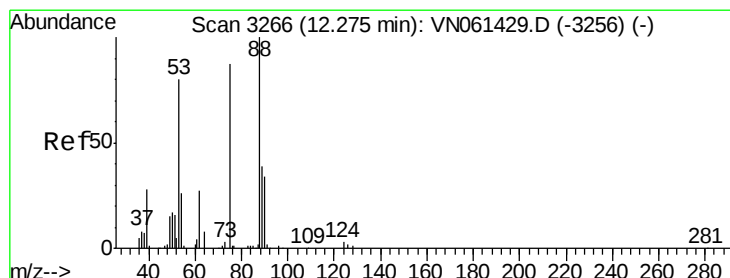
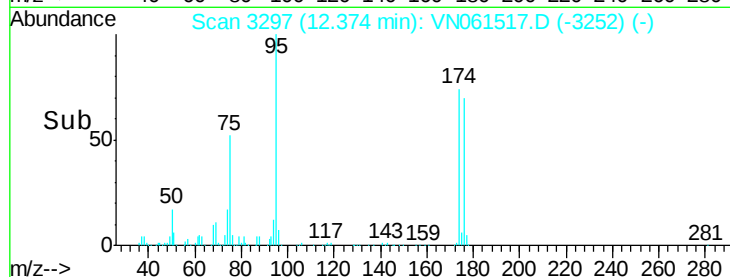
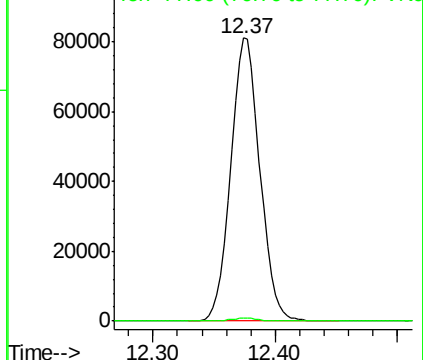
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 66.826 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061517.D

Acq: 20 May 2020 21:44

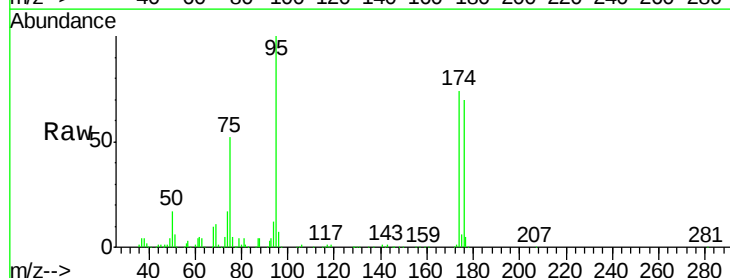
Tgt Ion: 75 Resp: 134555

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

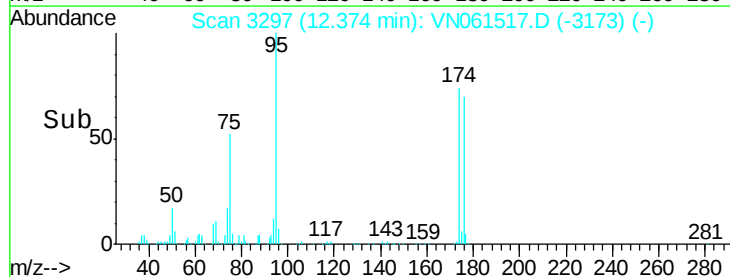
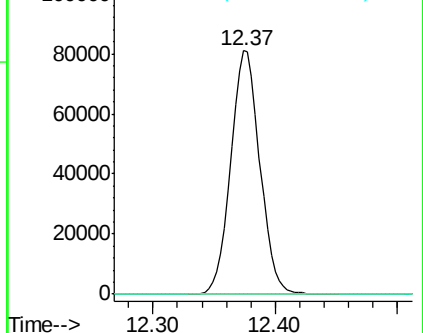
89 0.0 38.2 57.4#

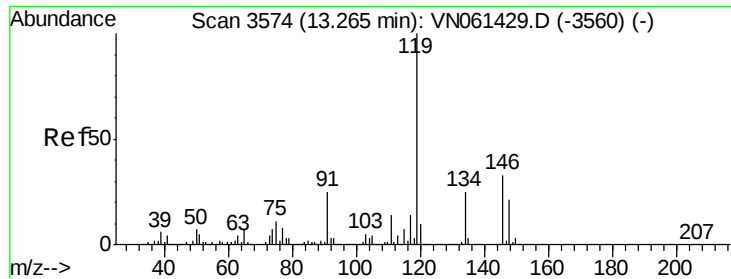


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

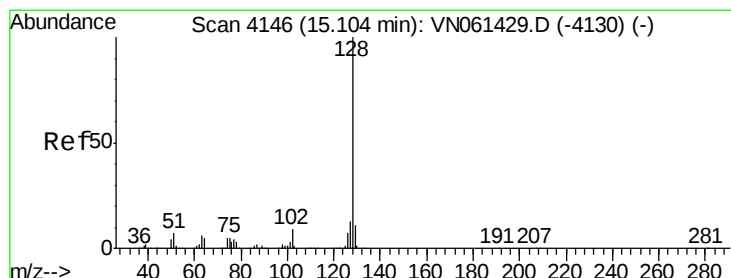
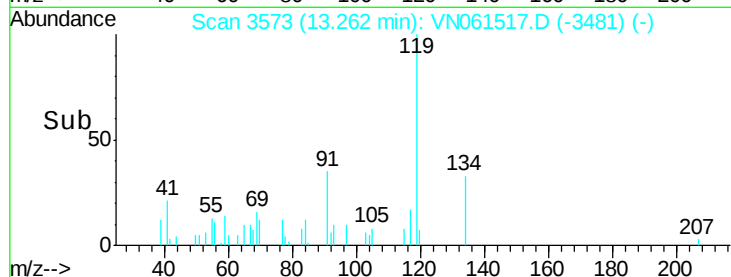
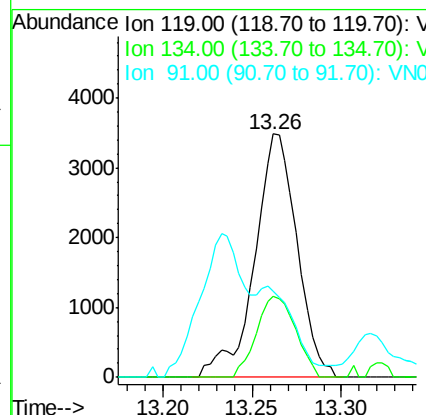
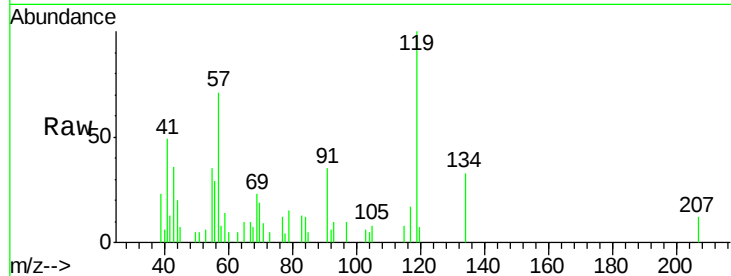




#86
p-Isopropyltoluene
Concen: 0.343 ug/l
RT: 13.26 min Scan# 3573
Delta R.T. -0.00 min
Lab File: VN061517.D
Acq: 20 May 2020 21:44

Instrument :
MSVOA_N
ClientSampleId :
ZIPPER-DRAINS-SLUDGE-PIT

Tot Ion:119 Resp: 5777
Ion Ratio Lower Upper
119 100
134 30.7 12.7 38.1
91 0.0 12.6 37.6#



#95
Naphthalene
Concen: 0.267 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. 0.00 min
Lab File: VN061517.D
Acq: 20 May 2020 21:44

Tgt Ion:128 Resp: 3505
Ion Ratio Lower Upper
128 100
127 12.2 10.1 15.1
129 6.8 8.6 13.0#

