

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061026.D
 Acq On : 16 Apr 2020 20:51
 Operator : JC/MD
 Sample : L2298-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-CUTTINGS

Quant Time: Apr 17 04:01:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	150481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	257726	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	242273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	105790	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	101633	52.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.58%	
35) Dibromofluoromethane	7.56	113	76389	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
50) Toluene-d8	10.08	98	323126	56.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.62%	
62) 4-Bromofluorobenzene	12.39	95	118242	53.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.10%	

Target Compounds

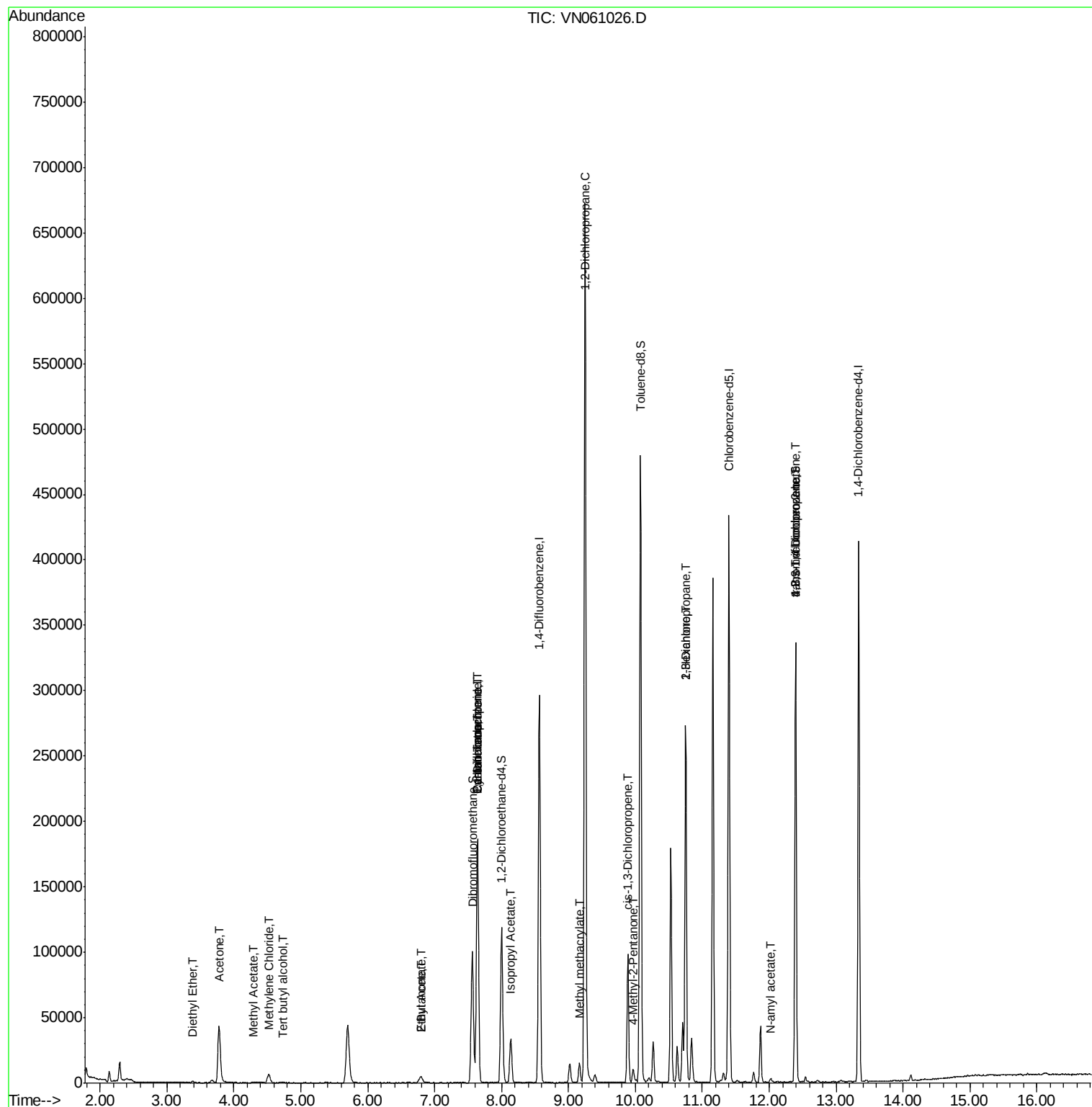
						Qvalue
8) Diethyl Ether	3.38	74	221	0.201	ug/l #	1
11) Tert butyl alcohol	4.73	59	1572	4.602	ug/l #	73
16) Acetone	3.78	43	75849	89.505	ug/l	99
18) Methyl Acetate	4.29	43	1373	0.517	ug/l #	54
20) Methylene Chloride	4.52	84	5197	2.809	ug/l	90
25) 2-Butanone	6.80	43	9016	6.943	ug/l	96
31) Cyclohexane	7.63	56	3285	0.916	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12289	4.621	ug/l #	50
37) Ethyl Acetate	6.80	43	9016	3.122	ug/l #	69
38) Carbon Tetrachloride	7.64	117	14697	6.639	ug/l #	15
43) Isopropyl Acetate	8.14	43	41101	8.751	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	677	0.318	ug/l #	43
48) Methyl methacrylate	9.16	41	2168	1.045	ug/l #	14
51) 4-Methyl-2-Pentanone	9.97	43	7000	2.585	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	17093	5.196	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	2636	0.825	ug/l #	43
59) 2-Hexanone	10.75	43	41741	21.378	ug/l #	53
74) N-amyl acetate	12.02	43	2571	0.652	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	60210	25.875	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	60210	63.823	ug/l #	12

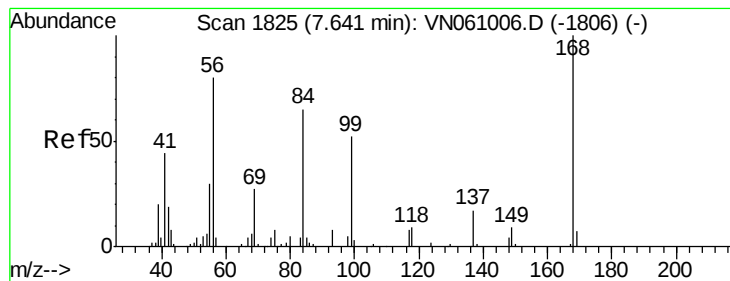
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 17 03:49:39 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061026.D

Acq: 16 Apr 2020 20:51

Instrument :

MSVOA_N

ClientSampleId :

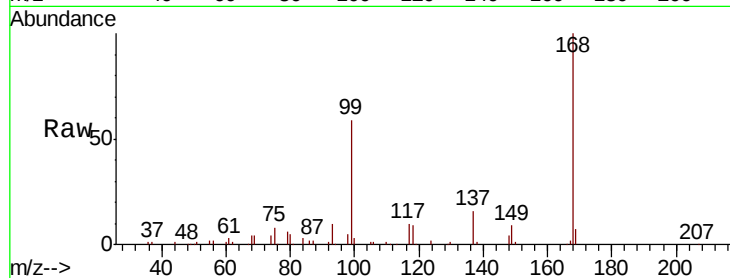
SOIL-CUTTINGS

Tot Ion:168 Resp: 150481

Ion Ratio Lower Upper

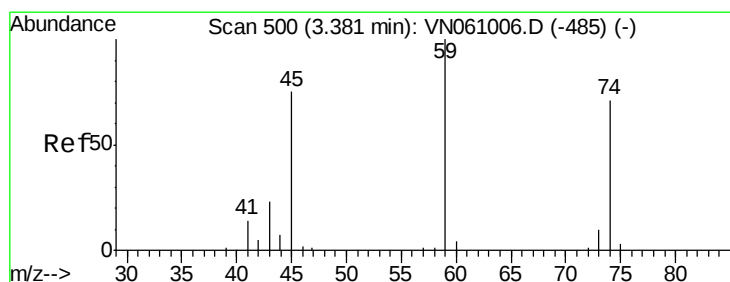
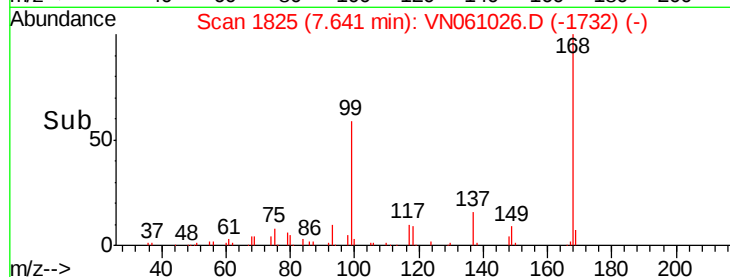
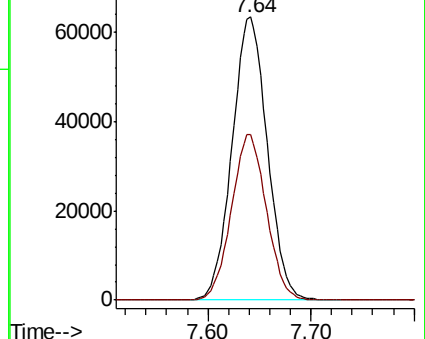
168 100

99 58.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#8

Diethyl Ether

Concen: 0.201 ug/l

RT: 3.38 min Scan# 501

Delta R.T. 0.00 min

Lab File: VN061026.D

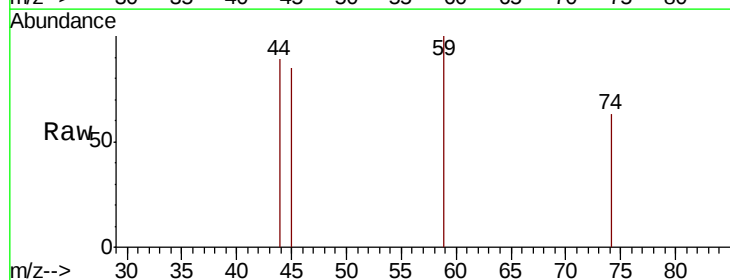
Acq: 16 Apr 2020 20:51

Tgt Ion: 74 Resp: 221

Ion Ratio Lower Upper

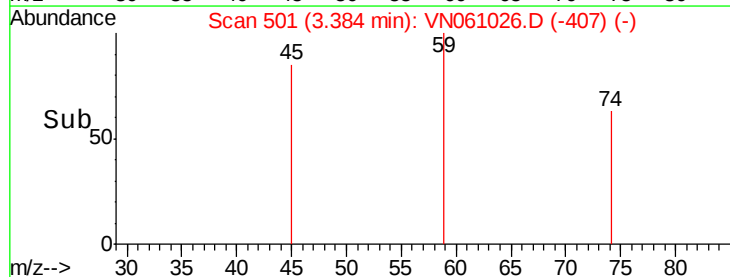
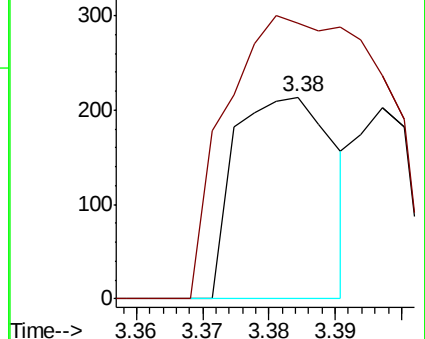
74 100

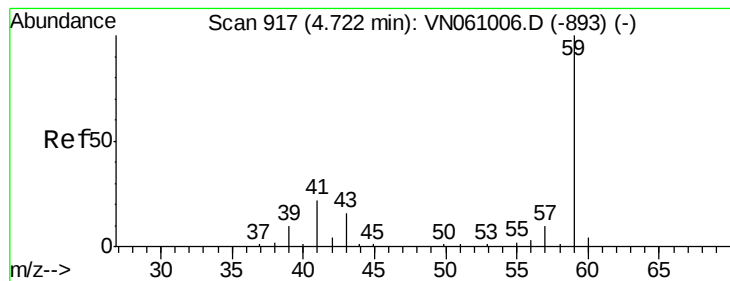
45 220.8 52.9 158.8#



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN



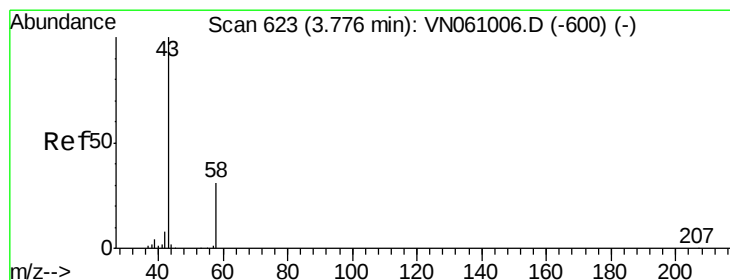
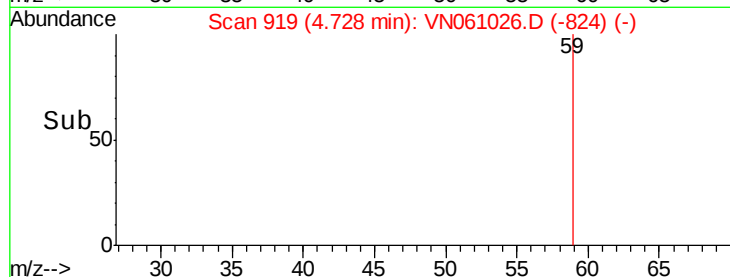
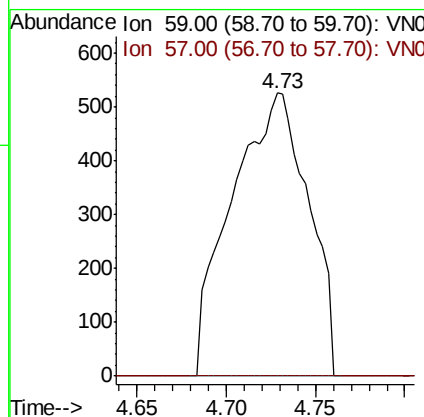
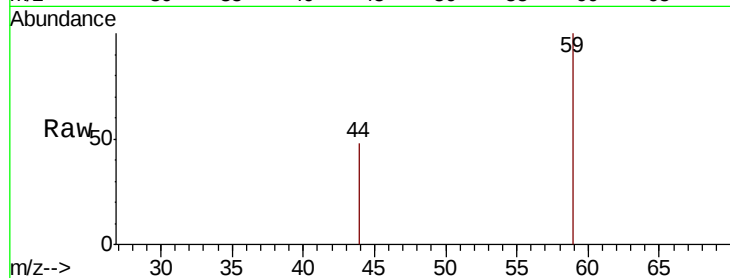


#11

Tert butyl alcohol
 Concen: 4.602 ug/l
 RT: 4.73 min Scan# 919
 Delta R.T. 0.01 min
 Lab File: VN061026.D
 Acq: 16 Apr 2020 20:51

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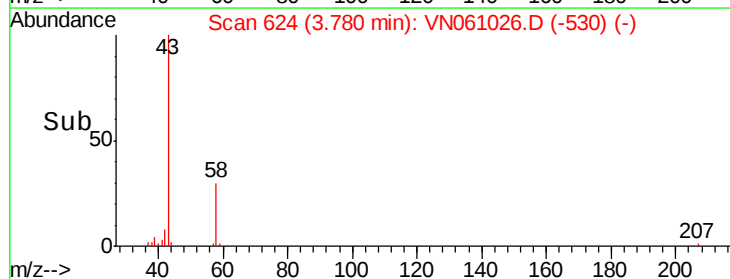
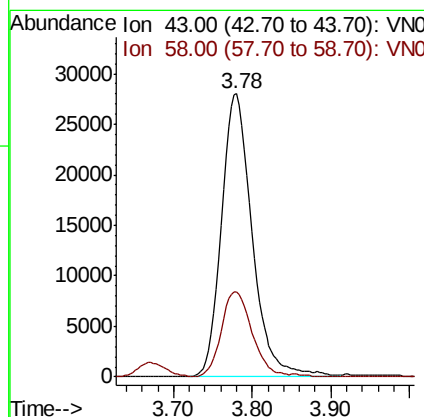
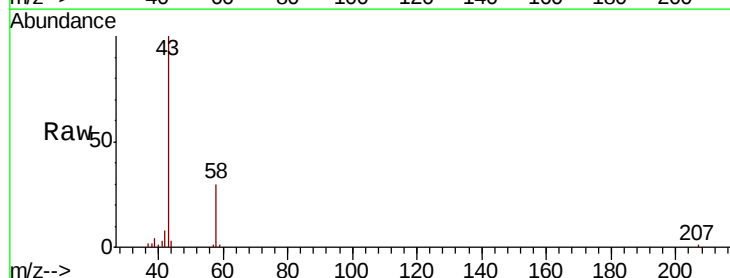
Tot Ion: 59 Resp: 1572
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

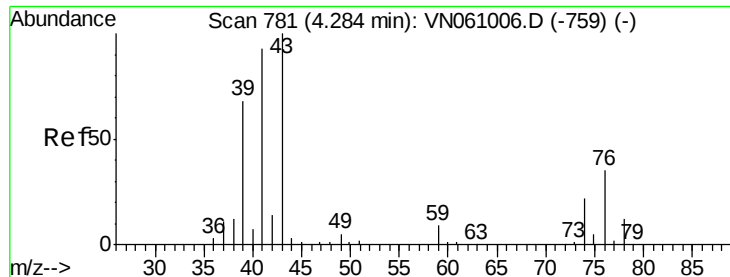


#16

Acetone
 Concen: 89.505 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.00 min
 Lab File: VN061026.D
 Acq: 16 Apr 2020 20:51

Tgt Ion: 43 Resp: 75849
 Ion Ratio Lower Upper
 43 100
 58 30.1 24.6 37.0

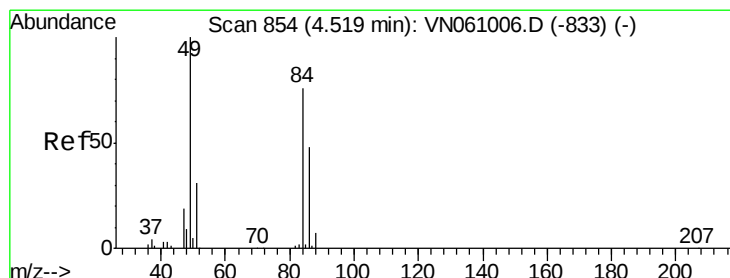
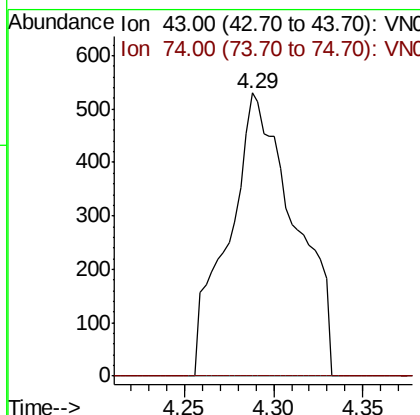
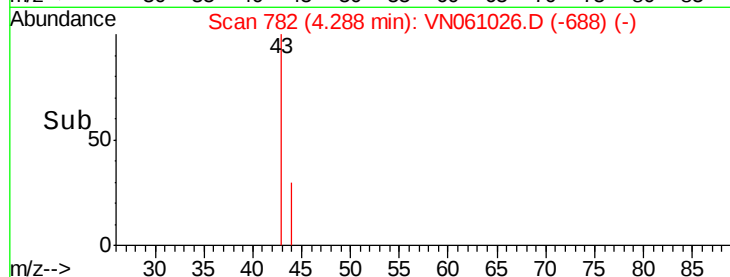
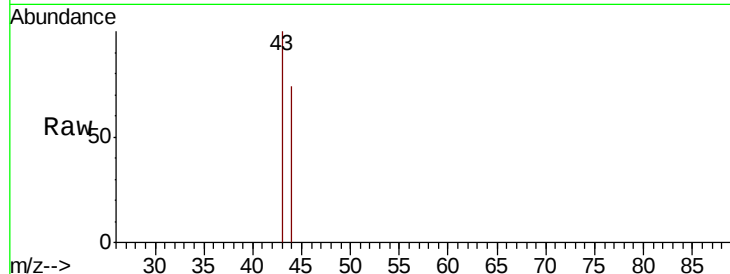




#18
Methvl Acetate
Concen: 0.517 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

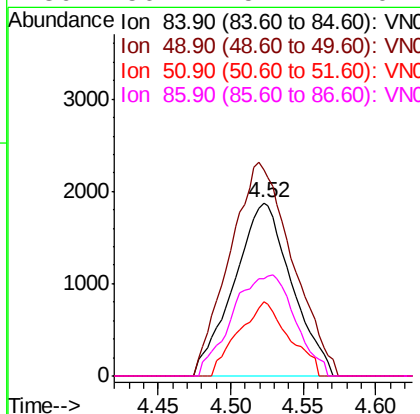
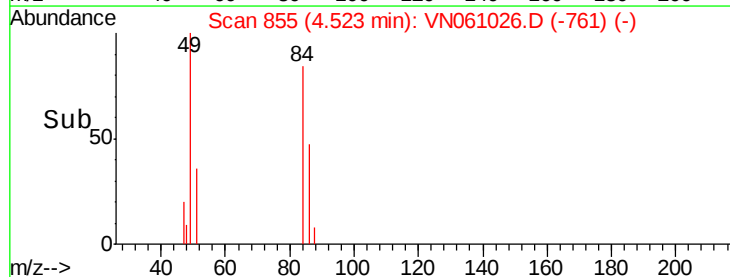
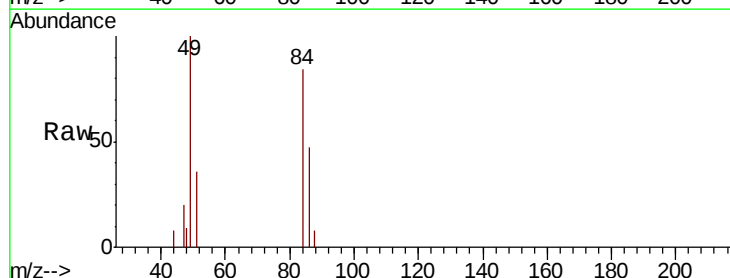
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SOIL-CUTTINGS

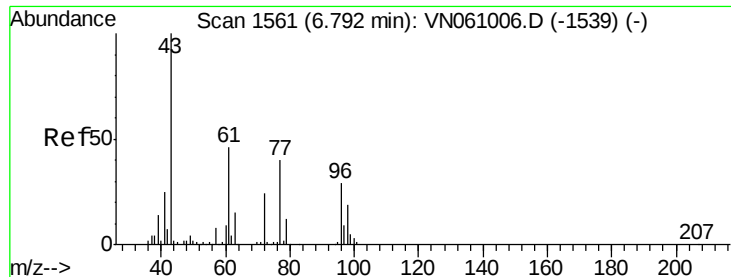
Tot Ion: 43 Resp: 1373
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#



#20
Methylene Chloride
Concen: 2.809 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

Tgt Ion: 84 Resp: 5197
Ion Ratio Lower Upper
84 100
49 118.7 105.8 158.6
51 42.5 32.4 48.6
86 56.2 51.1 76.7

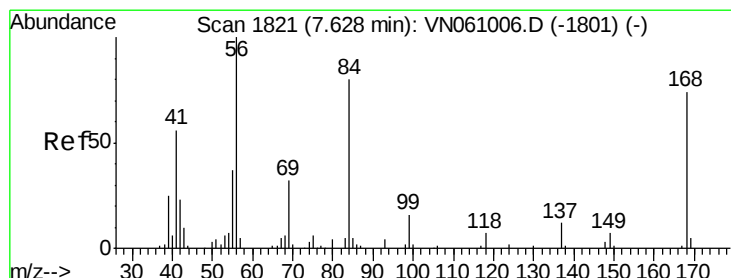
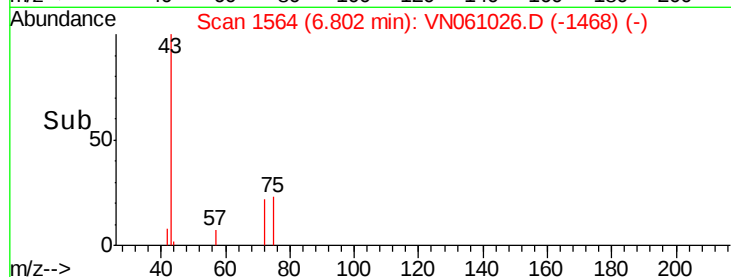
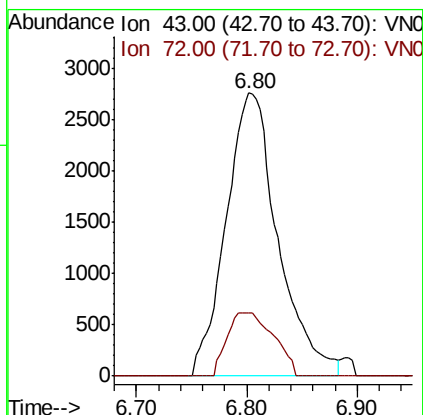
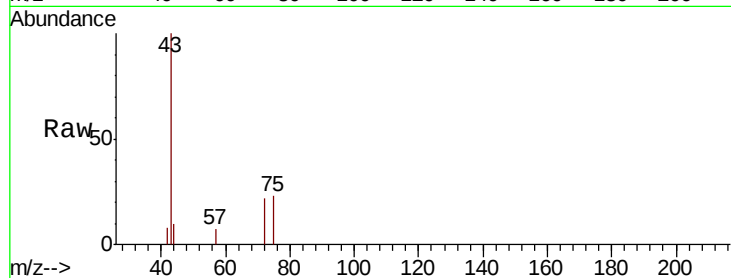




#25
2-Butanone
Concen: 6.943 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

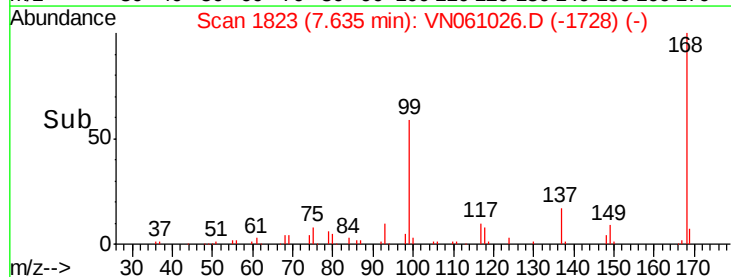
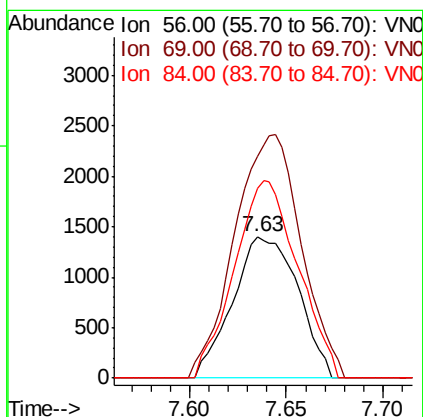
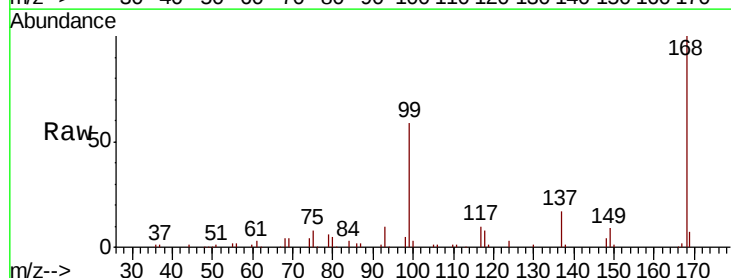
Instrument :
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SOIL-CUTTINGS

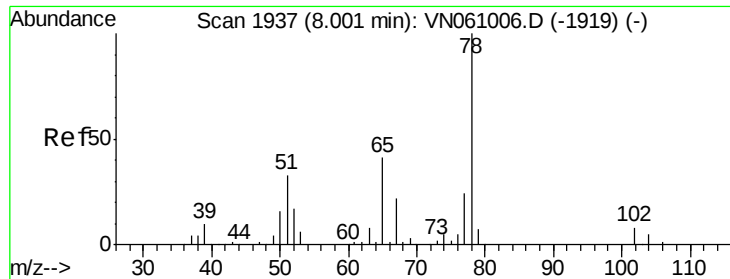
Tot Ion: 43 Resp: 9016
Ion Ratio Lower Upper
43 100
72 22.4 19.6 29.4



#31
Cyclohexane
Concen: 0.916 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

Tgt Ion: 56 Resp: 3285
Ion Ratio Lower Upper
56 100
69 156.4 25.6 38.4#
84 134.2 63.4 95.2#

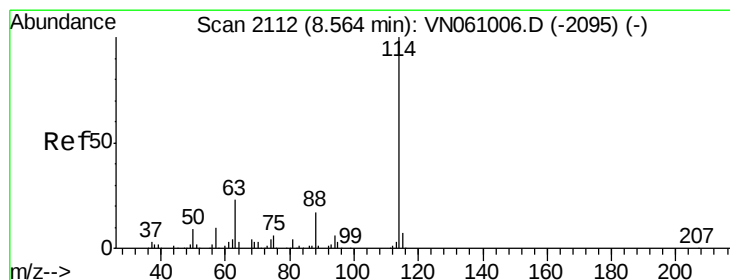
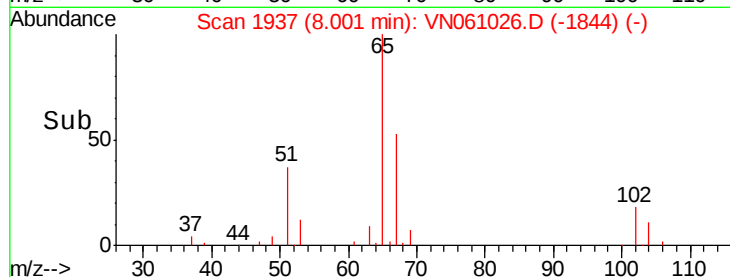
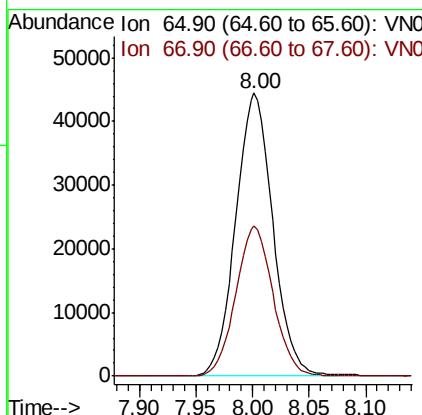
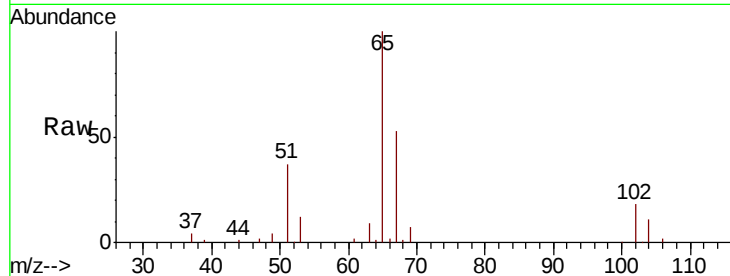




#33
 1,2-Dichloroethane-d4
 Concen: 52.788 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VN061026.D
 Acq: 16 Apr 2020 20:51

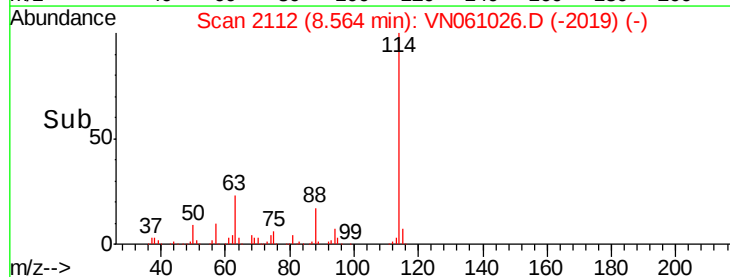
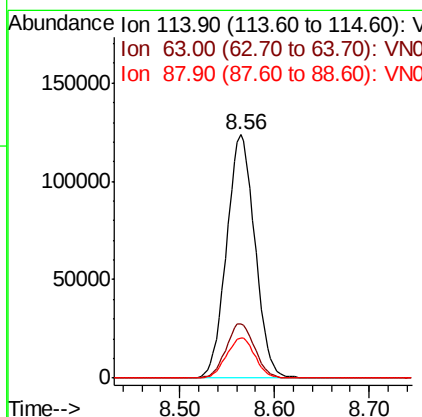
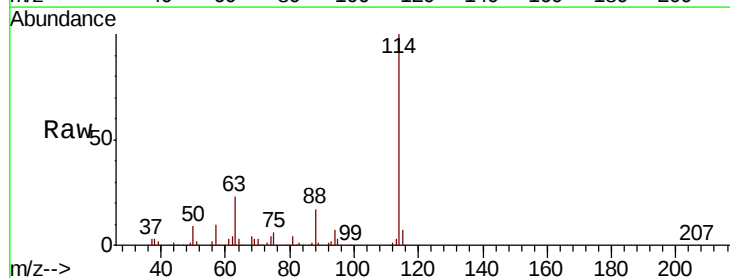
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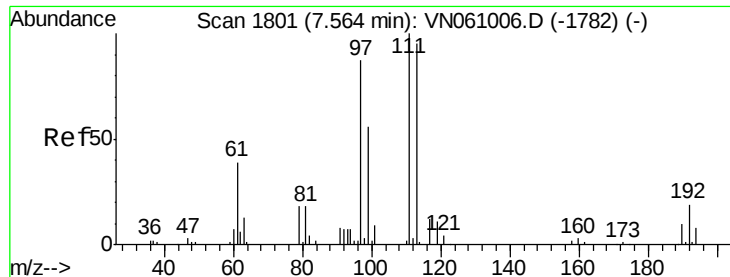
Tot Ion: 65 Resp: 101633
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061026.D
 Acq: 16 Apr 2020 20:51

Tgt Ion: 114 Resp: 257726
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 46.2
 88 16.5 0.0 33.4

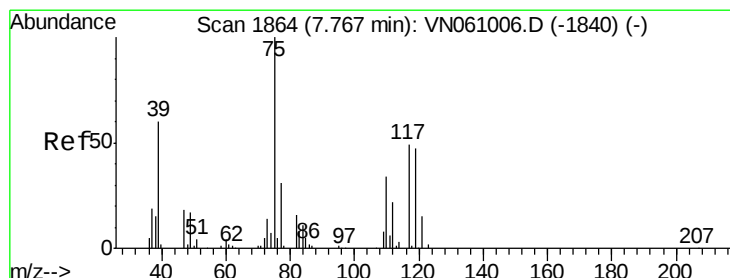
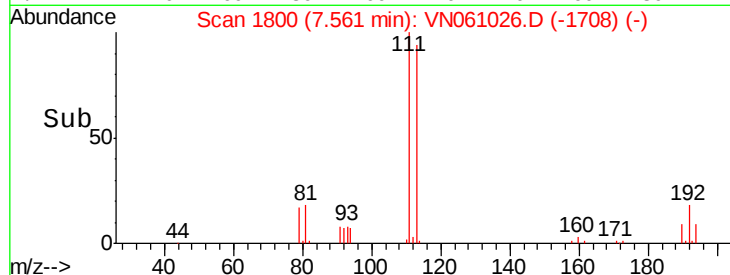
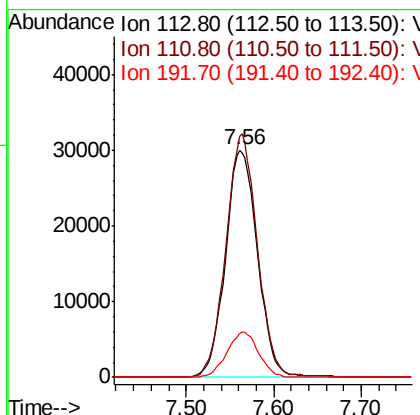
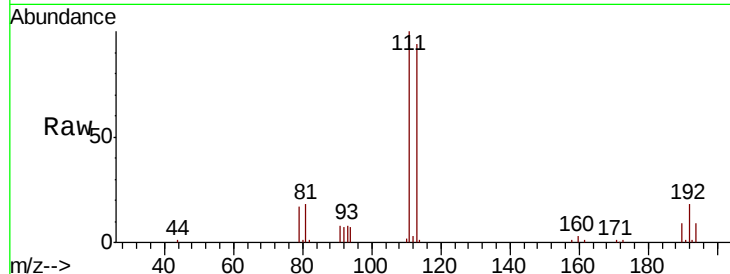




#35
 Dibromofluoromethane
 Concen: 50.754 ug/l
 RT: 7.56 min Scan# 1800
 Delta R.T. -0.00 min
 Lab File: VN061026.D
 Acq: 16 Apr 2020 20:51

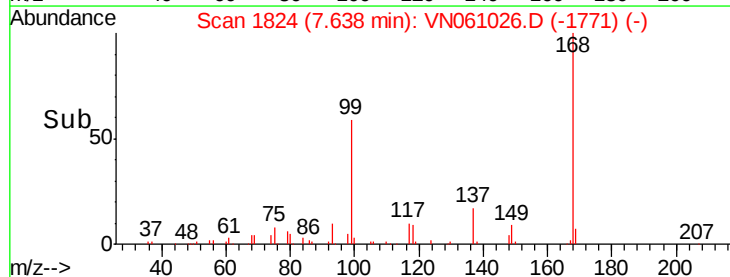
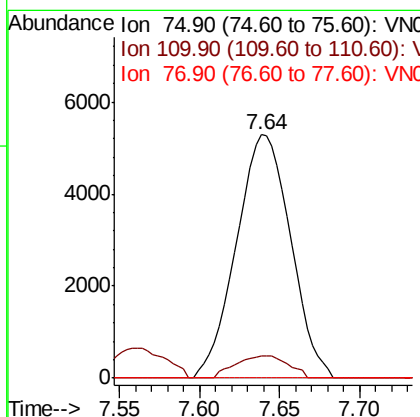
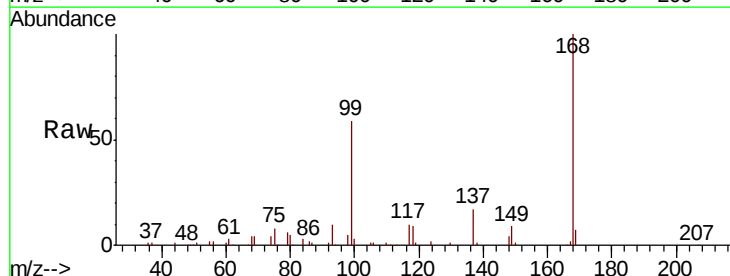
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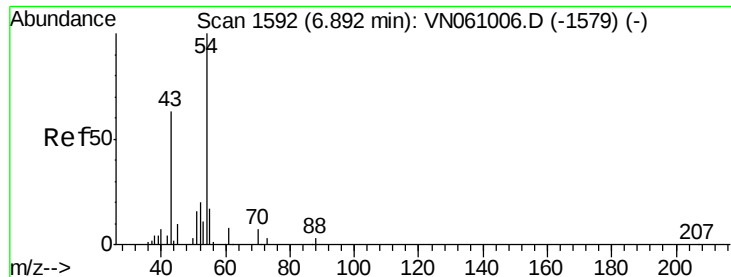
Tot Ion:113 Resp: 76389
 Ion Ratio Lower Upper
 113 100
 111 105.1 83.4 125.2
 192 19.6 15.5 23.3



#36
 1,1-Dichloropropene
 Concen: 4.621 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN061026.D
 Acq: 16 Apr 2020 20:51

Tgt Ion: 75 Resp: 12289
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.8 50.3#
 77 0.0 24.7 37.1#

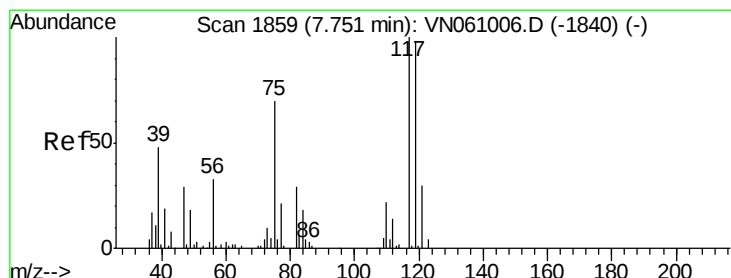
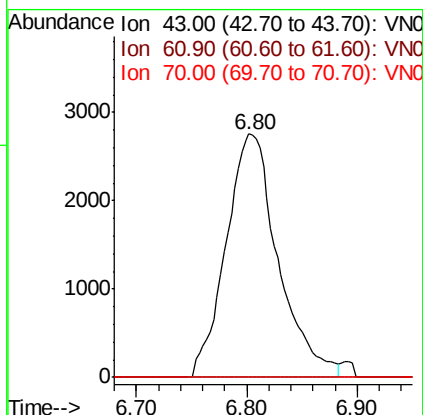
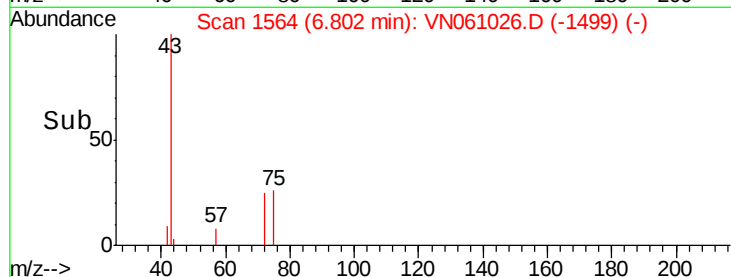
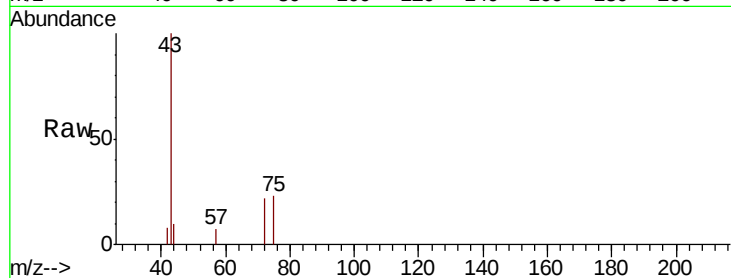




#37
Ethyl Acetate
Concen: 3.122 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

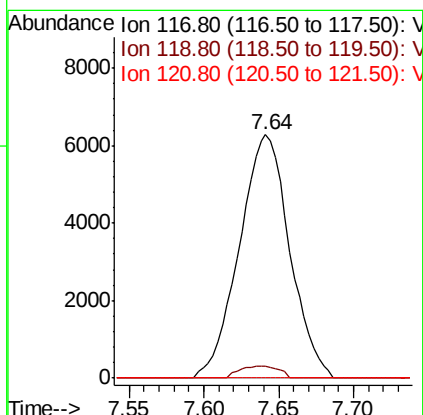
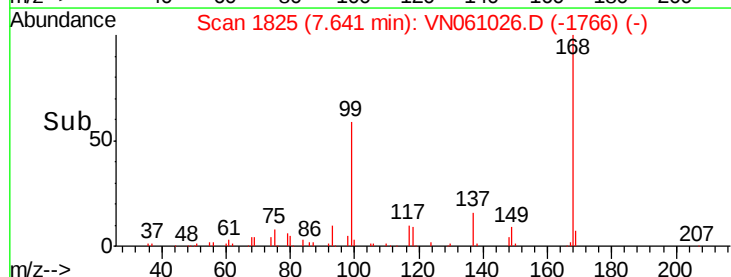
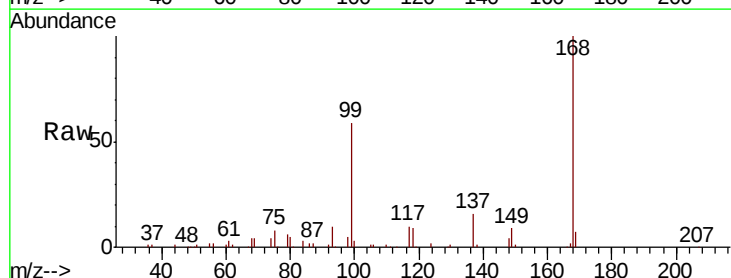
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SOIL-CUTTINGS

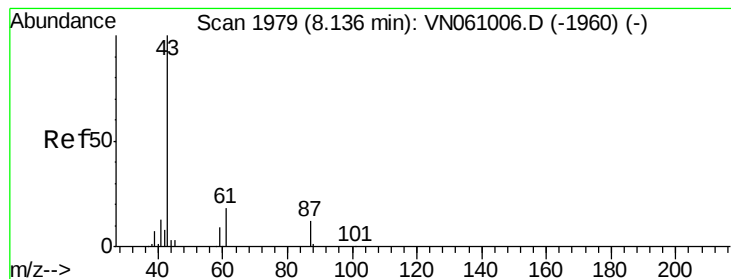
Tot Ion: 43 Resp: 9016
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 6.639 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

Tgt Ion: 117 Resp: 14697
Ion Ratio Lower Upper
117 100
119 4.9 78.1 117.1#
121 0.0 24.0 36.0#





#43

Isopropyl Acetate

Concen: 8.751 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061026.D

Acq: 16 Apr 2020 20:51

Instrument :

MSVOA_N

ClientSampleId :

SOIL-CUTTINGS

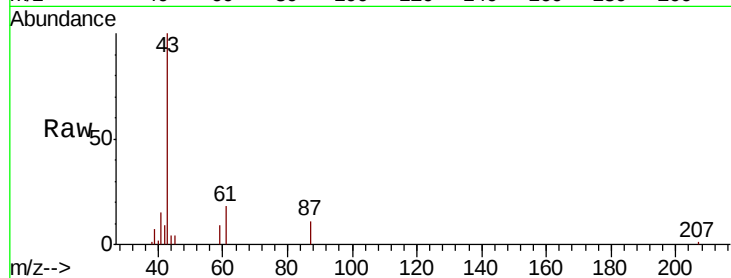
Tot Ion: 43 Resp: 41101

Ion Ratio Lower Upper

43 100

61 19.1 20.3 30.5#

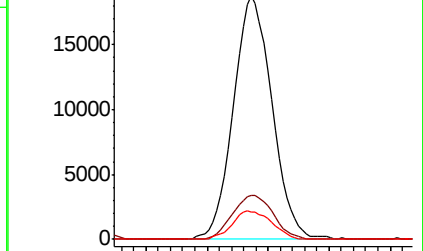
87 11.8 9.4 14.2



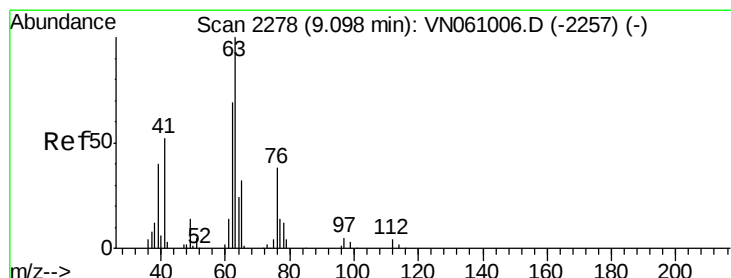
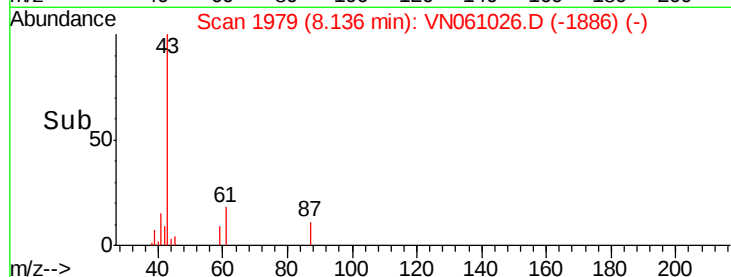
Abundance Ion 43.00 (42.70 to 43.70): VN061026.D (-1886) (-)

Ion 61.00 (60.70 to 61.70): VN061026.D (-1886) (-)

Ion 87.00 (86.70 to 87.70): VN061026.D (-1886) (-)



Time-->



#45

1,2-Dichloropropane

Concen: 0.318 ug/l

RT: 9.24 min Scan# 2323

Delta R.T. 0.14 min

Lab File: VN061026.D

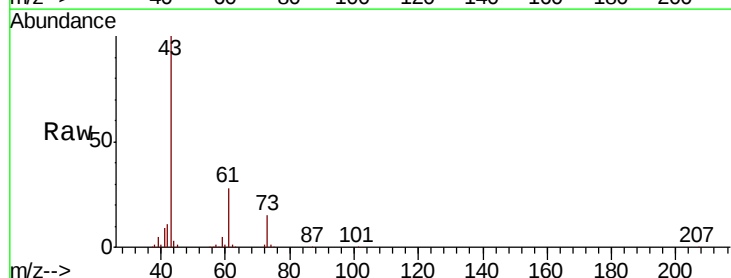
Acq: 16 Apr 2020 20:51

Tgt Ion: 63 Resp: 677

Ion Ratio Lower Upper

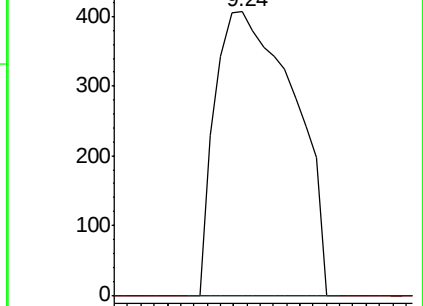
63 100

65 0.0 25.2 37.8#

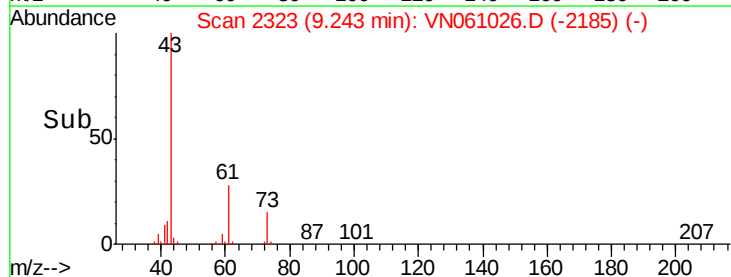


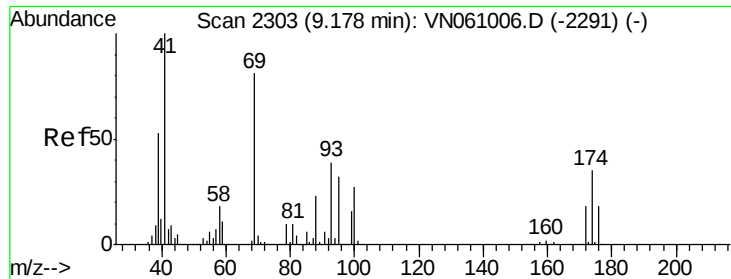
Abundance Ion 62.90 (62.60 to 63.60): VN061026.D (-2185) (-)

Ion 64.90 (64.60 to 65.60): VN061026.D (-2185) (-)



Time-->

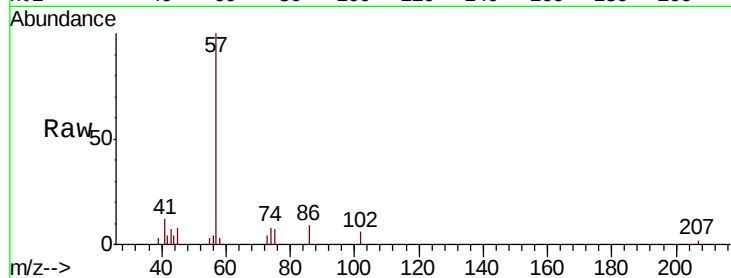




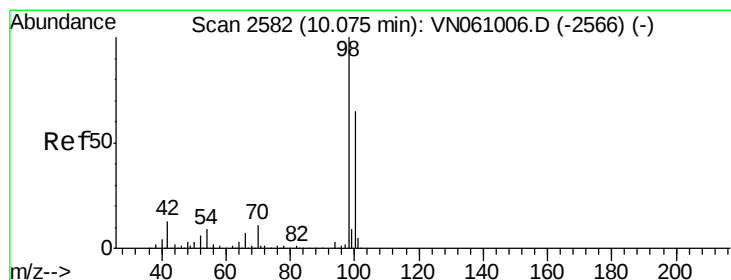
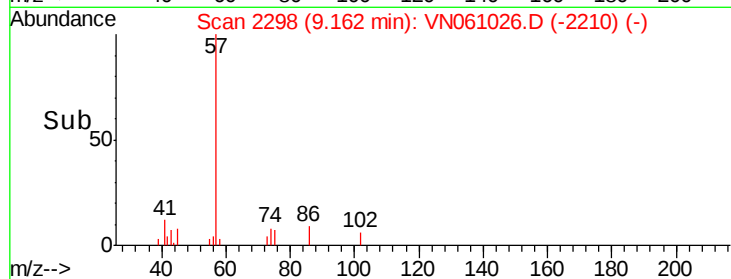
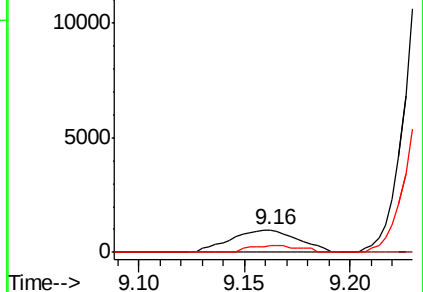
#48
Methvl methacrylate
Concen: 1.045 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

Tot Ion: 41 Resp: 2168
Ion Ratio Lower Upper
41 100
69 0.0 65.3 97.9#
39 0.0 45.2 67.8#

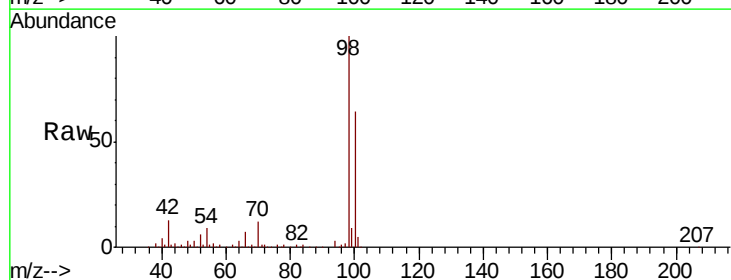


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

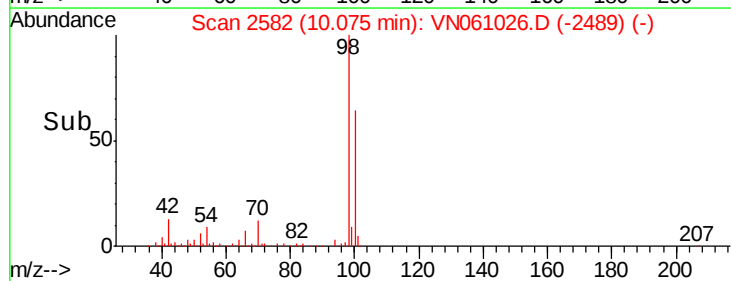
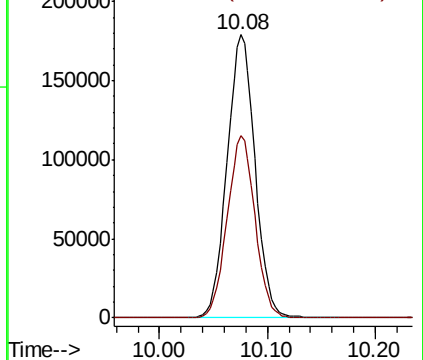


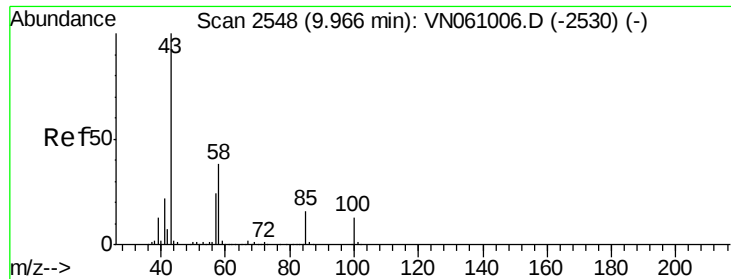
#50
Toluene-d8
Concen: 56.814 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

Tgt Ion: 98 Resp: 323126
Ion Ratio Lower Upper
98 100
100 64.0 51.9 77.9



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: 2.585 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN061026.D

Acq: 16 Apr 2020 20:51

Instrument :

MSVOA_N

ClientSampleId :

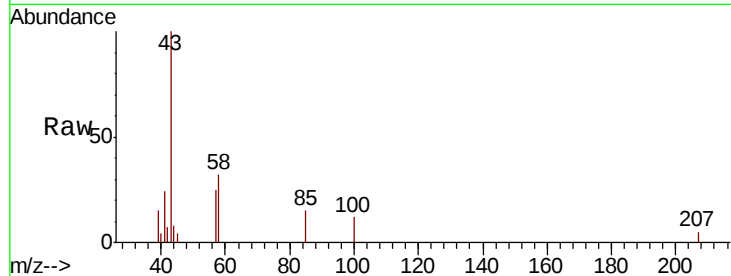
SOIL-CUTTINGS

Tot Ion: 43 Resp: 7000

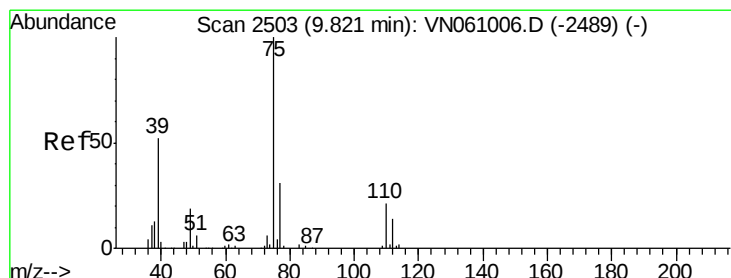
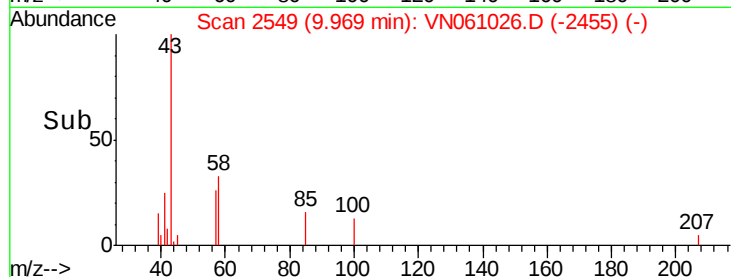
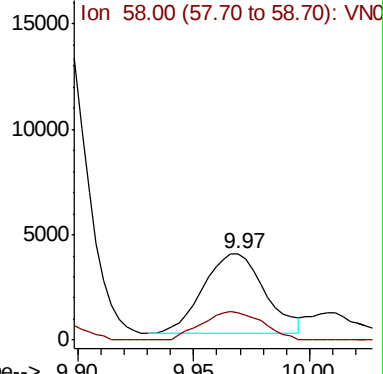
Ion Ratio Lower Upper

43 100

58 35.7 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-2530) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.196 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.07 min

Lab File: VN061026.D

Acq: 16 Apr 2020 20:51

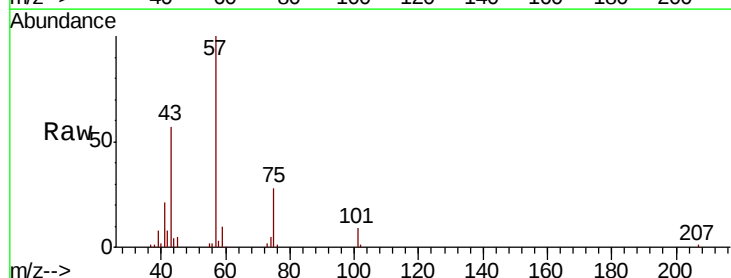
Tgt Ion: 75 Resp: 17093

Ion Ratio Lower Upper

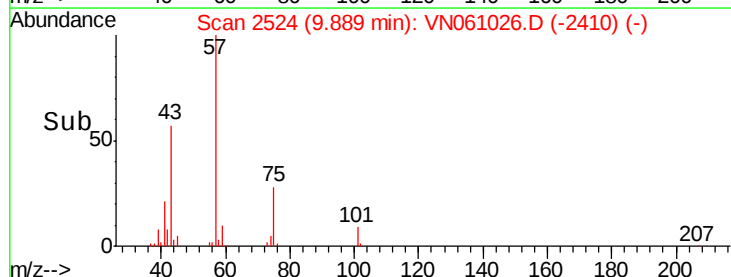
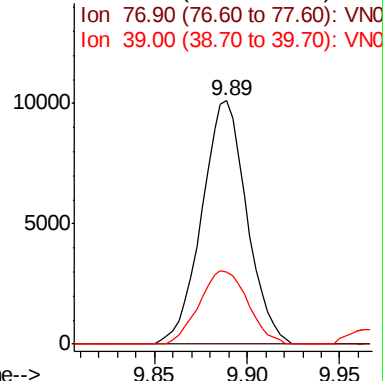
75 100

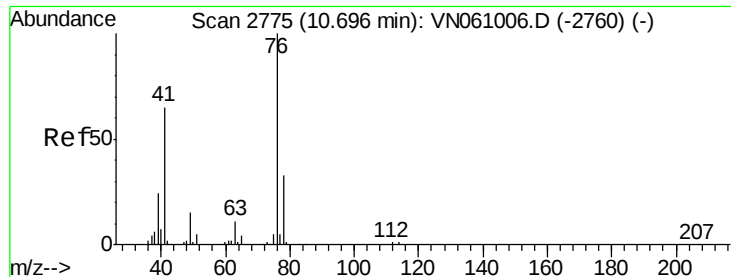
77 0.0 25.0 37.6#

39 29.8 41.4 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VN061006.D (-2489) (-)

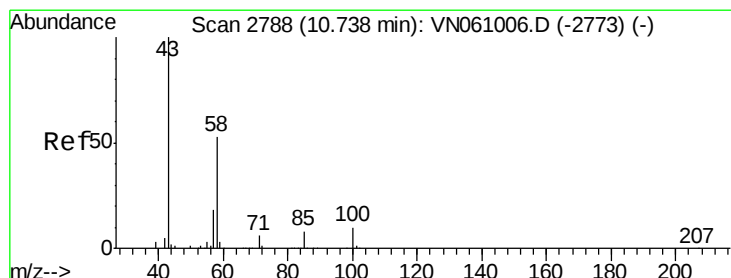
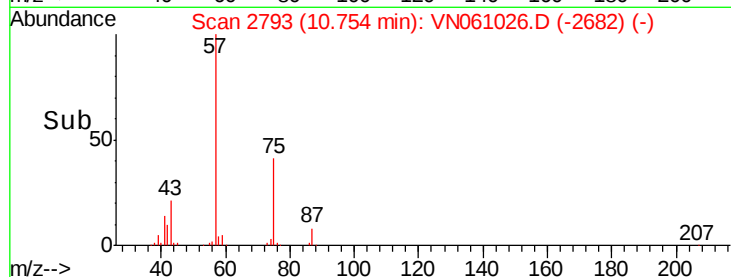
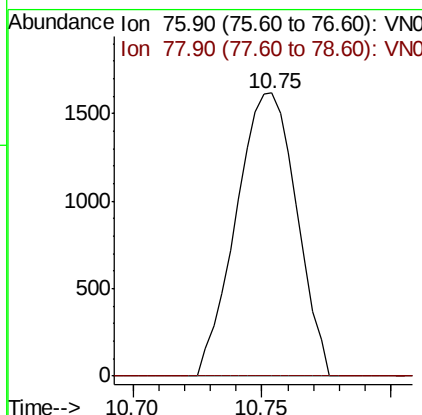
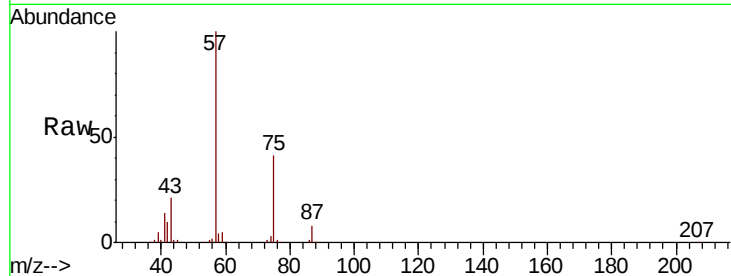




#57
 1,3-Dichloropropane
 Concen: 0.825 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN061026.D
 Acq: 16 Apr 2020 20:51

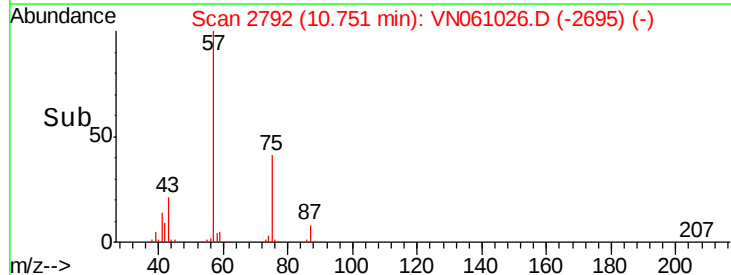
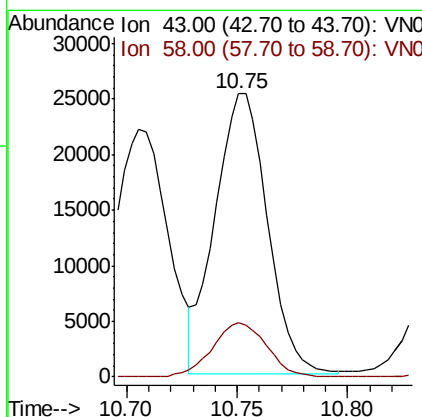
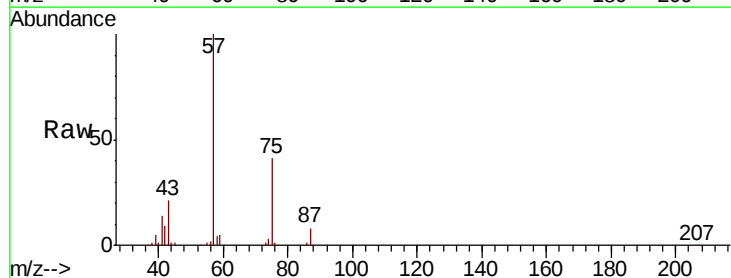
Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-CUTTINGS

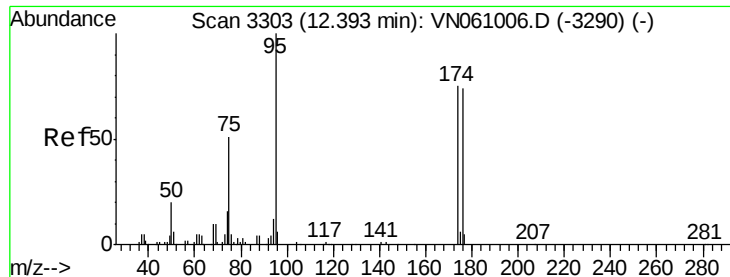
Tot Ion: 76 Resp: 2636
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 21.378 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.01 min
 Lab File: VN061026.D
 Acq: 16 Apr 2020 20:51

Tgt Ion: 43 Resp: 41741
 Ion Ratio Lower Upper
 43 100
 58 19.8 26.4 79.0#





#62

4-Bromofluorobenzene

Concen: 53.045 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.00 min

Lab File: VN061026.D

Acq: 16 Apr 2020 20:51

Instrument :

MSVOA_N

ClientSampleId :

SOIL-CUTTINGS

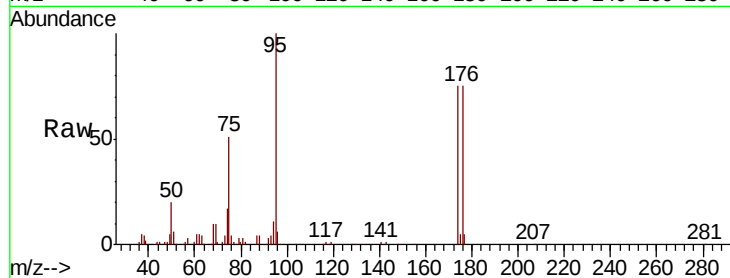
Tot Ion: 95 Resp: 118242

Ion Ratio Lower Upper

95 100

174 75.7 0.0 151.2

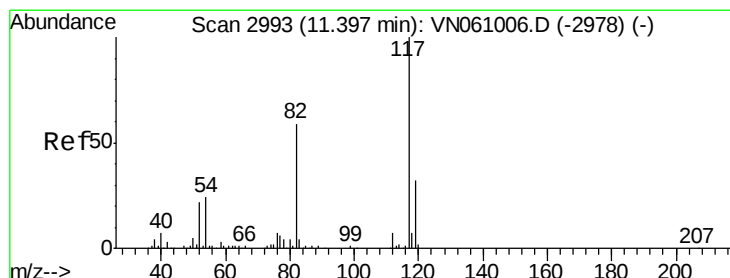
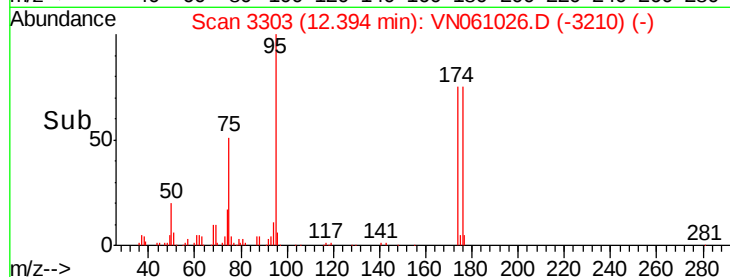
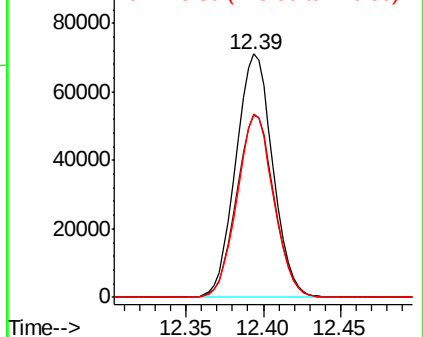
176 74.0 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VN061006.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN061006.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN061006.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. 0.00 min

Lab File: VN061026.D

Acq: 16 Apr 2020 20:51

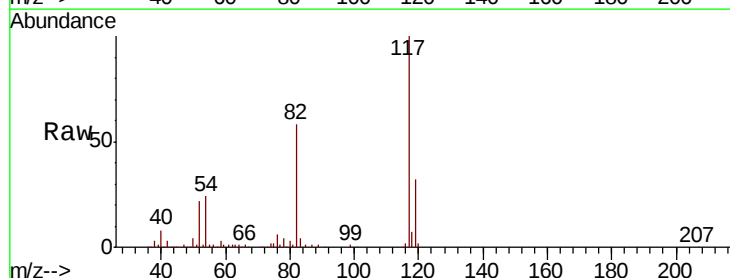
Tgt Ion: 117 Resp: 242273

Ion Ratio Lower Upper

117 100

82 58.3 47.1 70.7

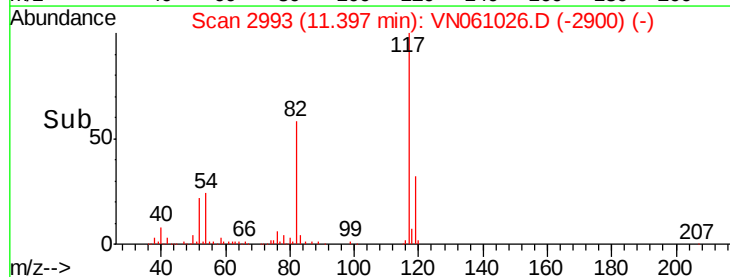
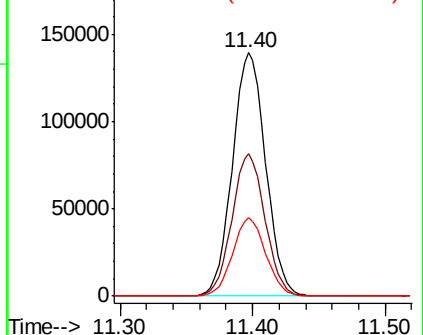
119 32.0 25.7 38.5

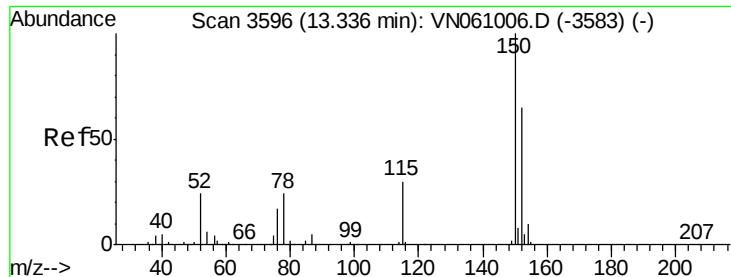


Abundance Ion 116.90 (116.60 to 117.60): VN061006.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN061006.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN061006.D (-2978) (-)



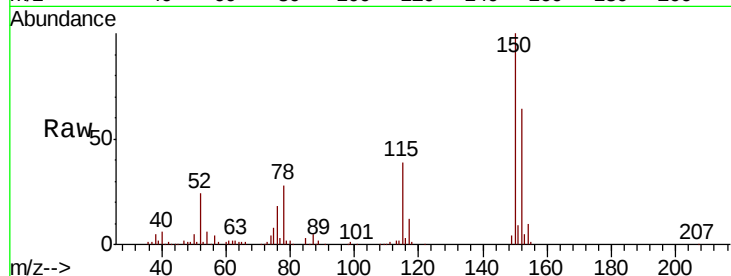


#72

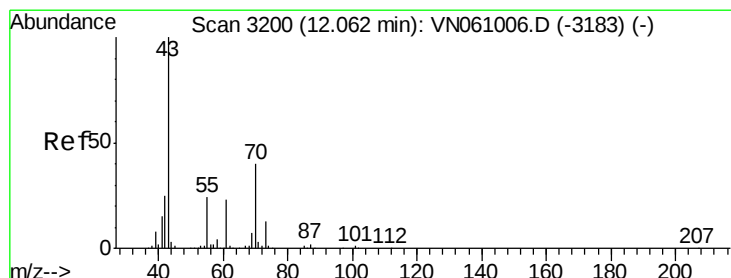
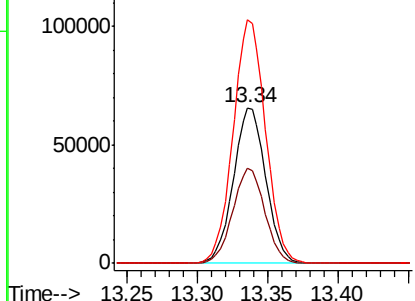
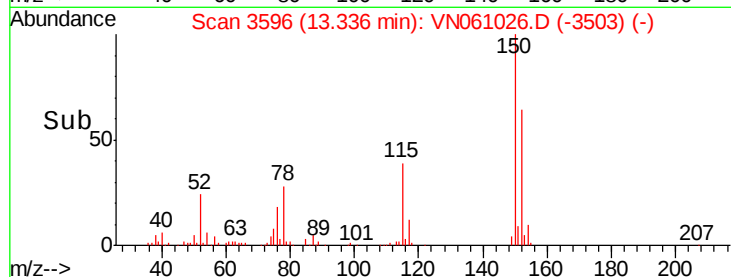
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3596
Delta R.T. 0.00 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.8	92.4
150	156.2	0.0	349.0



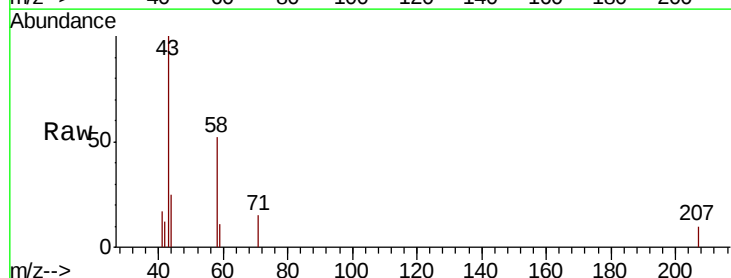
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



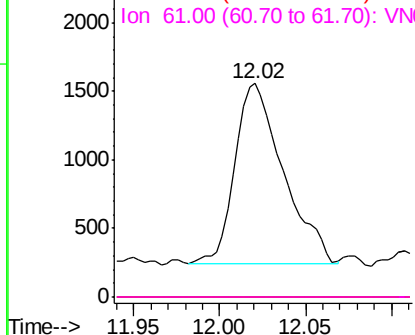
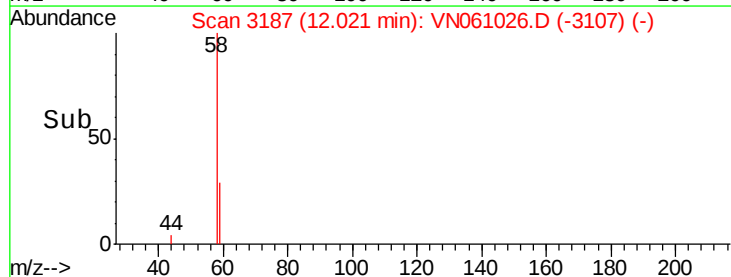
#74

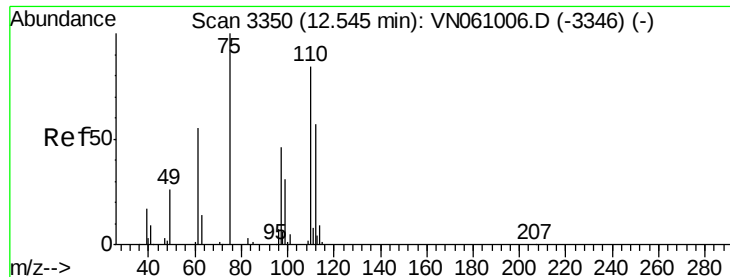
N-ethyl acetate
Concen: 0.652 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN061026.D
Acq: 16 Apr 2020 20:51

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.0	46.6#
55	0.0	18.6	27.8#
61	0.0	18.2	27.4#



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: 25.875 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061026.D

Acq: 16 Apr 2020 20:51

Instrument :

MSVOA_N

ClientSampleId :

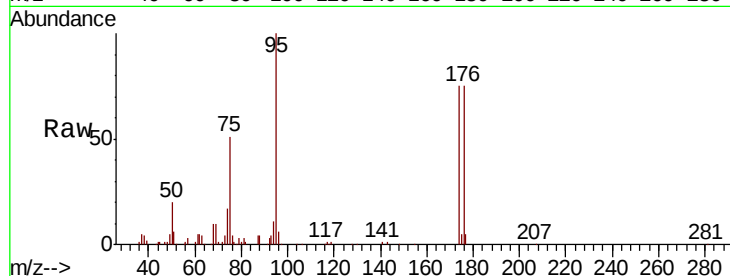
SOIL-CUTTINGS

Tot Ion: 75 Resp: 60210

Ion Ratio Lower Upper

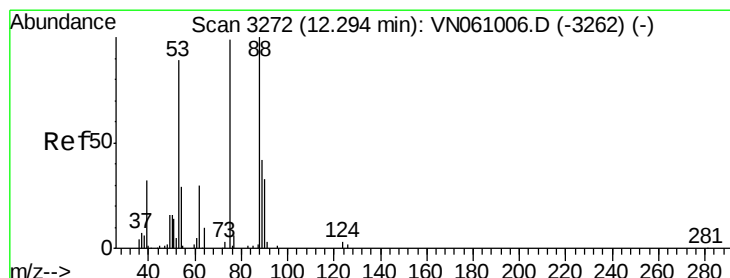
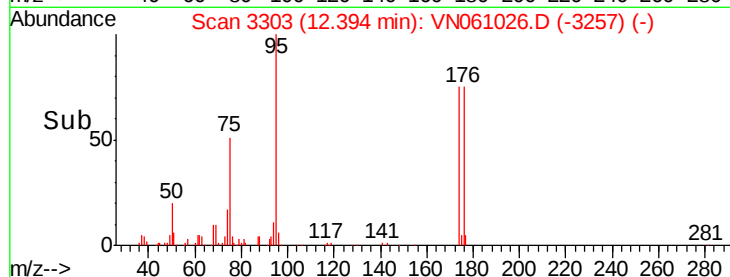
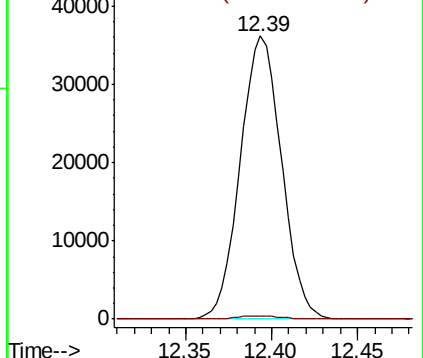
75 100

77 1.1 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: 63.823 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061026.D

Acq: 16 Apr 2020 20:51

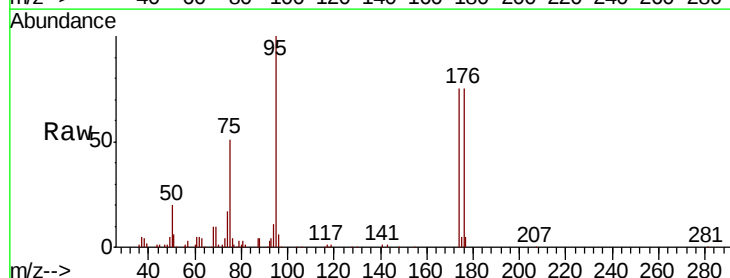
Tgt Ion: 75 Resp: 60210

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#



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

