

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051775.D
 Acq On : 10 Oct 2018 2:22
 Operator : MD\SY
 Sample : J5325-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-DEBRI

Quant Time: Oct 10 03:38:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

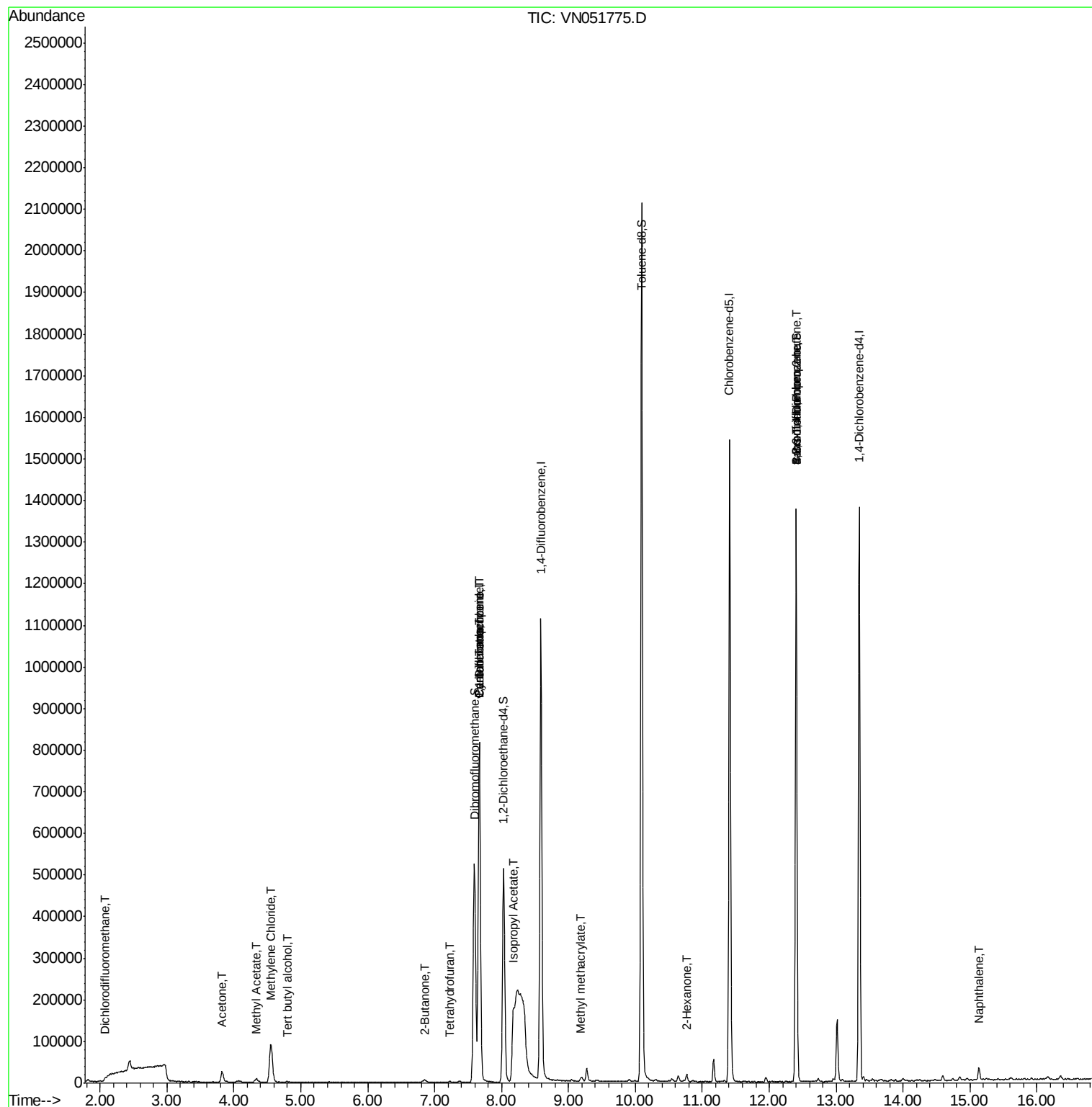
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	726965	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1044899	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	944009	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	386321	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	430579	44.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.68%	
35) Dibromofluoromethane	7.59	113	392589	48.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.20%	
50) Toluene-d8	10.09	98	1514846	50.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.52%	
62) 4-Bromofluorobenzene	12.40	95	442097	41.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.88%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.06	85	100	1.160	ug/l #	42
7) Trichlorofluoromethane	3.00	101	110	Below Cal	#	18
11) Tert butyl alcohol	4.80	59	1961	3.005	ug/l #	73
13) Acrolein	3.86	56	65	Below Cal	#	67
16) Acetone	3.82	43	43627	8.808	ug/l	97
18) Methyl Acetate	4.33	43	15380	2.901	ug/l	97
20) Methylene Chloride	4.55	84	73200	9.264	ug/l	96
25) 2-Butanone	6.86	43	8091	2.918	ug/l	95
29) Tetrahydrofuran	7.22	42	1288	0.757	ug/l #	85
31) Cyclohexane	7.67	56	13768	1.056	ug/l #	40
36) 1,1-Dichloropropene	7.67	75	47512	4.350	ug/l #	48
38) Carbon Tetrachloride	7.67	117	66815	5.098	ug/l #	16
41) Methacrylonitrile	7.15	41	106	Below Cal	#	3
43) Isopropyl Acetate	8.18	43	198393	16.705	ug/l #	85
48) Methyl methacrylate	9.18	41	3814	0.703	ug/l #	11
59) 2-Hexanone	10.76	43	4756	1.164	ug/l	84
71) Bromoform	12.40	173	3940	0.566	ug/l #	1
74) N-amyl acetate	12.06	43	197	Below Cal	#	41
75) 1,1,2,2-Tetrachloroethane	12.53	83	31	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	232261	48.242	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	232261	110.515	ug/l #	14
95) Naphthalene	15.13	128	25882	1.931	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051775.D

Acq: 10 Oct 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

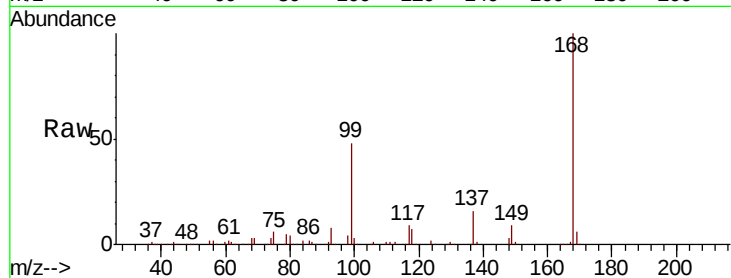
SOIL-DEBRI

Tot Ion:168 Resp: 726965

Ion Ratio Lower Upper

168 100

99 48.4 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

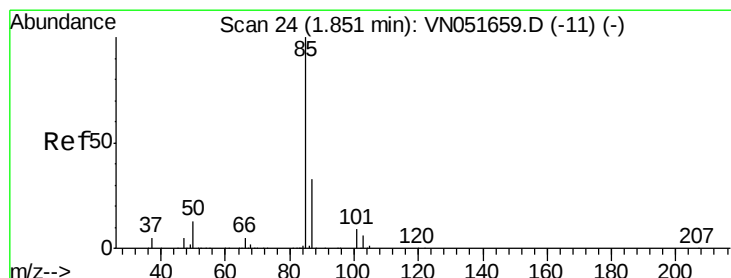
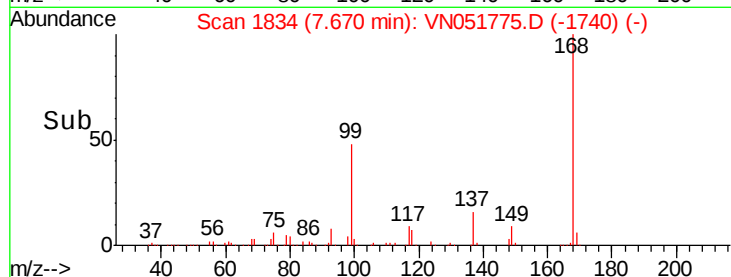
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 1.160 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.21 min

Lab File: VN051775.D

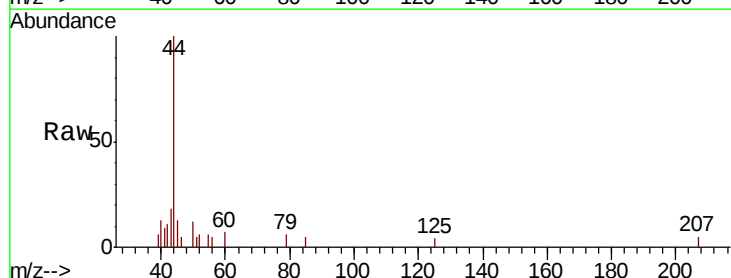
Acq: 10 Oct 2018 2:22

Tgt Ion: 85 Resp: 100

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

2.06

200

150

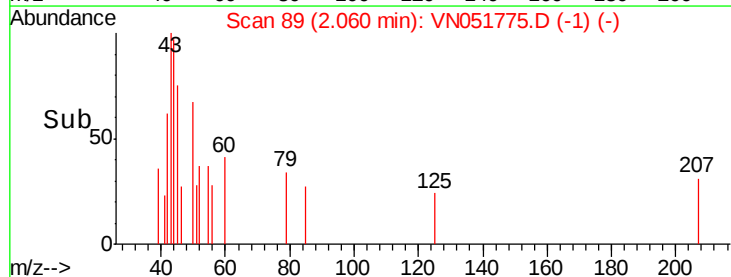
100

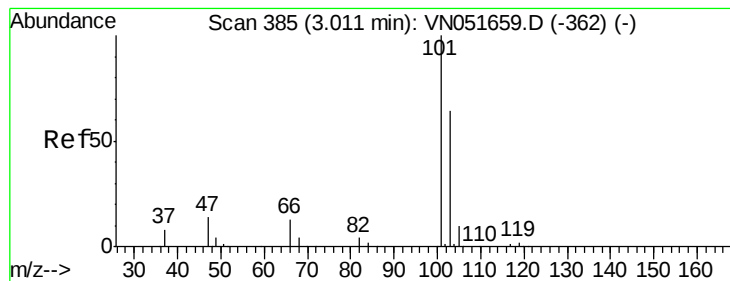
50

0

2.05 2.06 2.07

Time-->



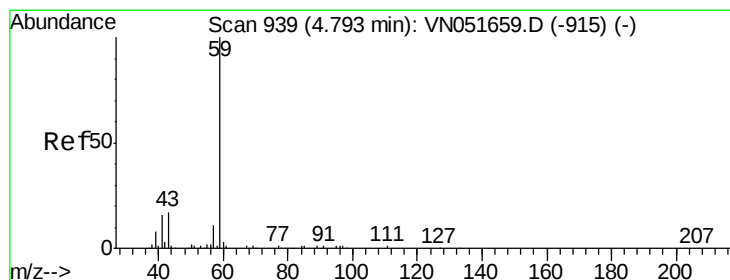
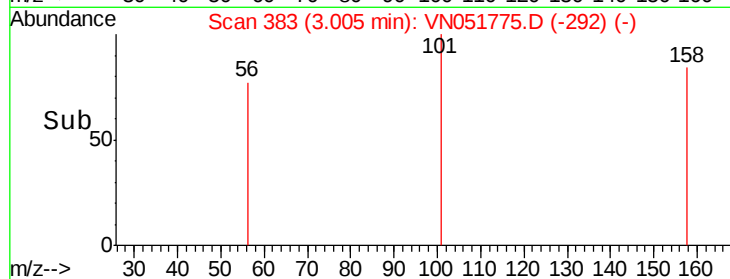
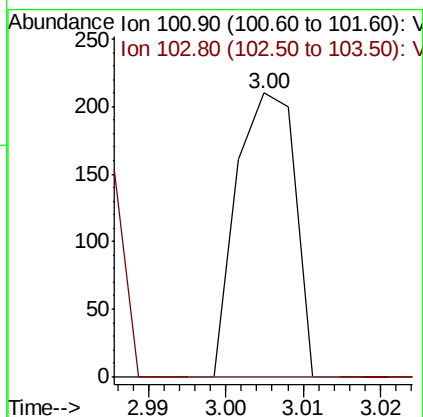
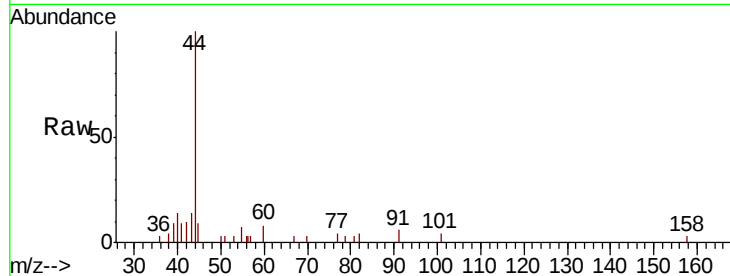


#7

Trichlorofluoromethane
 Concen: Below Cal
 RT: 3.00 min Scan# 383
 Delta R.T. -0.01 min
 Lab File: VN051775.D
 Acq: 10 Oct 2018 2:22

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-DEBRI

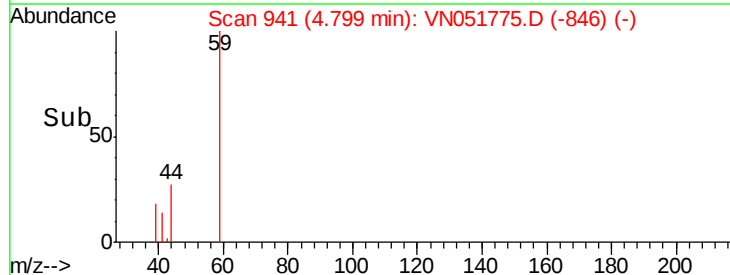
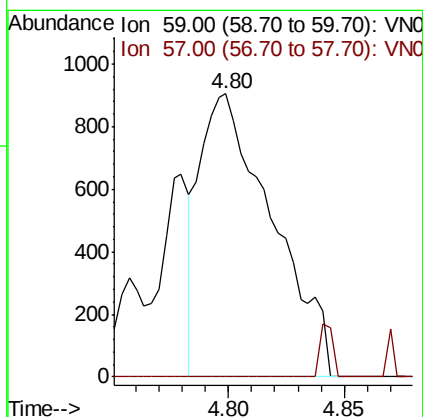
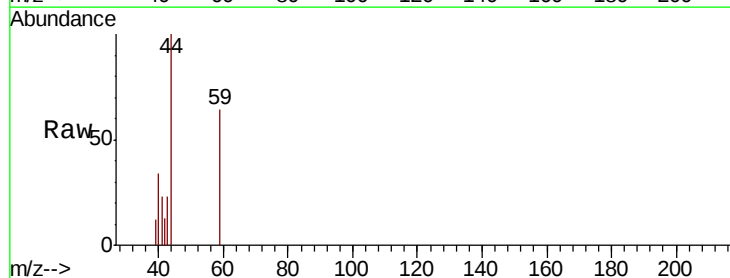
Tot Ion:101 Resp: 110
 Ion Ratio Lower Upper
 101 100
 103 0.0 51.1 76.7#

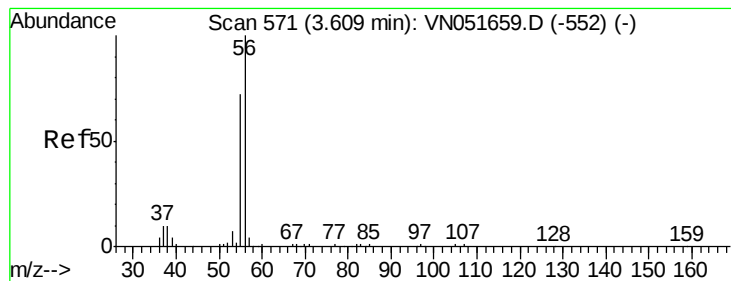


#11

Tert butyl alcohol
 Concen: 3.005 ug/l
 RT: 4.80 min Scan# 941
 Delta R.T. 0.01 min
 Lab File: VN051775.D
 Acq: 10 Oct 2018 2:22

Tgt Ion: 59 Resp: 1961
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 3.86 min Scan# 650

Delta R.T. 0.25 min

Lab File: VN051775.D

Acq: 10 Oct 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

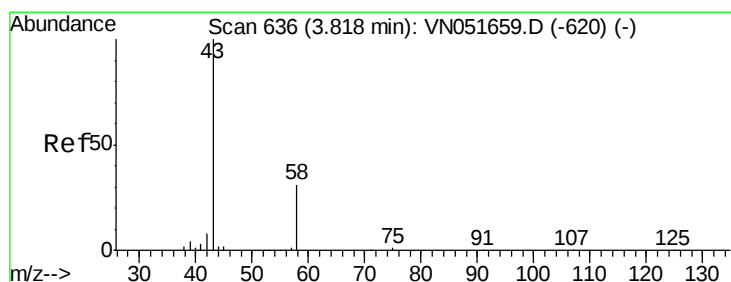
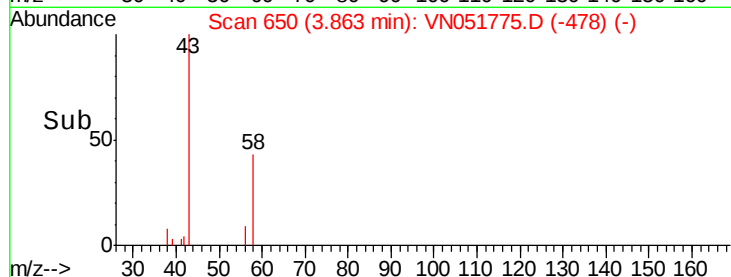
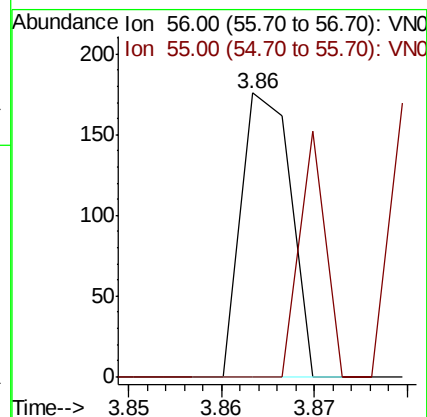
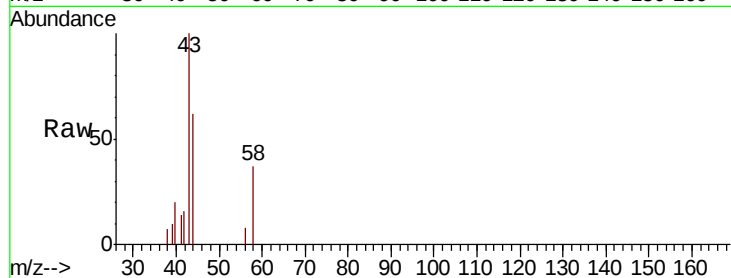
SOIL-DEBRI

Tot Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 44.6 57.5 86.3#



#16

Acetone

Concen: 8.808 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051775.D

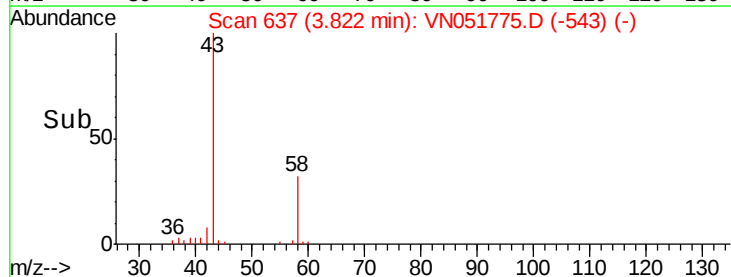
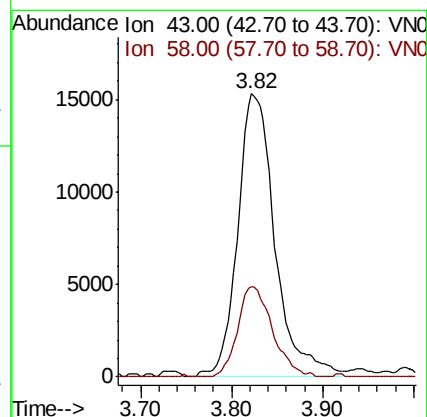
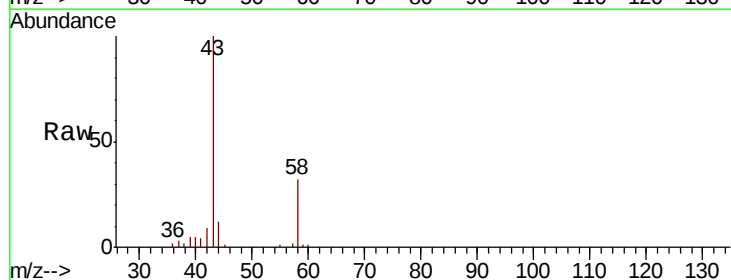
Acq: 10 Oct 2018 2:22

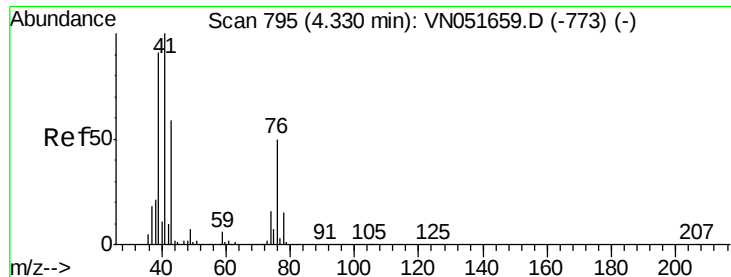
Tgt Ion: 43 Resp: 43627

Ion Ratio Lower Upper

43 100

58 32.0 24.3 36.5

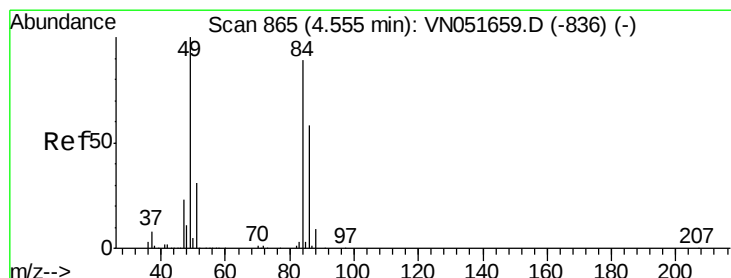
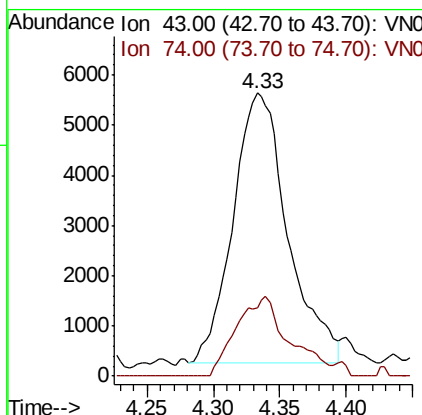
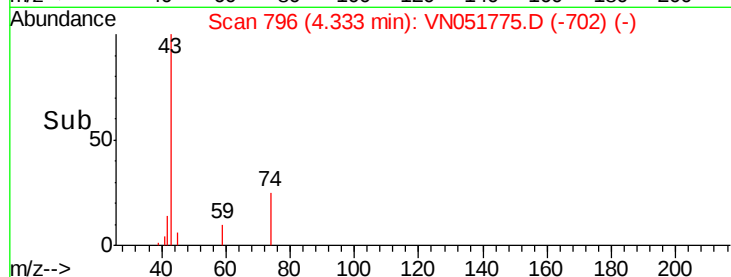
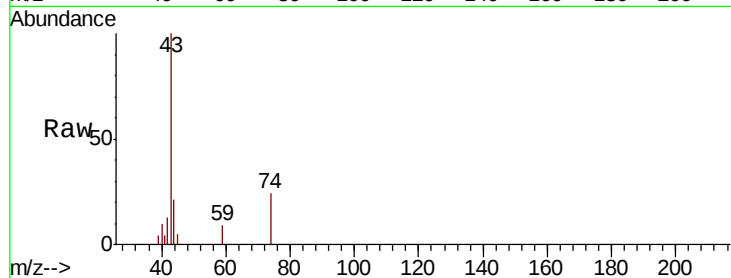




#18
Methvl Acetate
Concen: 2.901 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

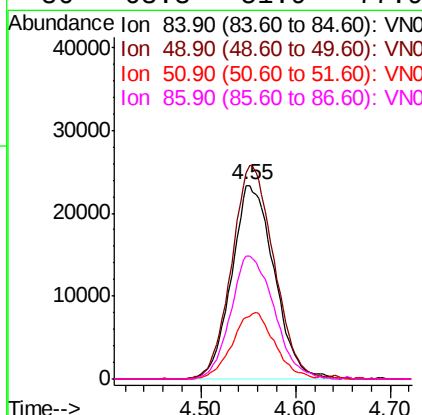
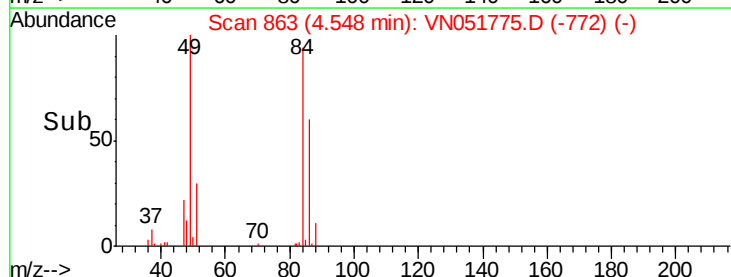
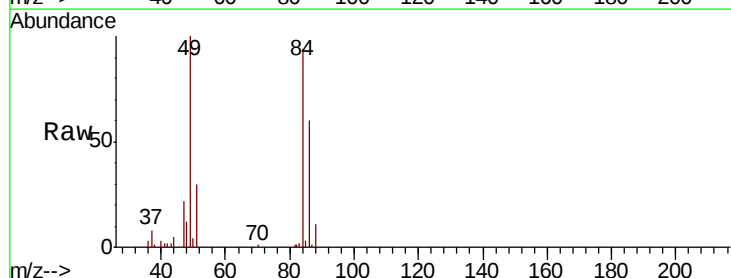
Instrument :
MSVOA_N
ClientSampleId :
SOIL-DEBRI

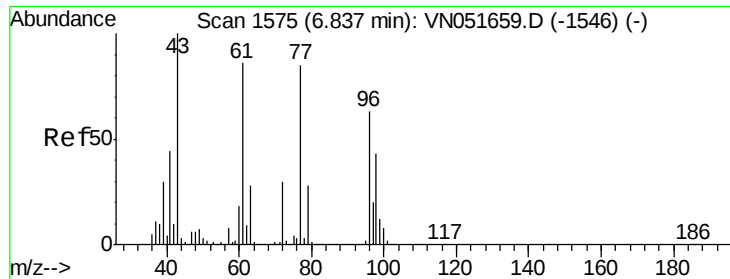
Tot Ion: 43 Resp: 15380
Ion Ratio Lower Upper
43 100
74 28.5 21.5 32.3



#20
Methylene Chloride
Concen: 9.264 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Tgt Ion: 84 Resp: 73200
Ion Ratio Lower Upper
84 100
49 105.7 89.5 134.3
51 31.8 27.4 41.0
86 63.3 51.9 77.9





#25

2-Butanone

Concen: 2.918 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VN051775.D

Acq: 10 Oct 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

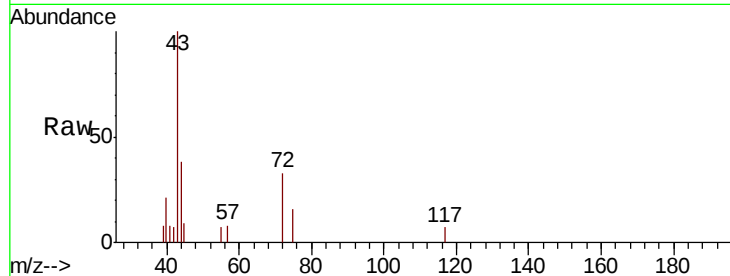
SOIL-DEBRI

Tot Ion: 43 Resp: 8091

Ion Ratio Lower Upper

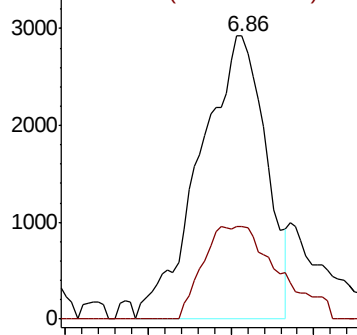
43 100

72 32.9 24.2 36.2

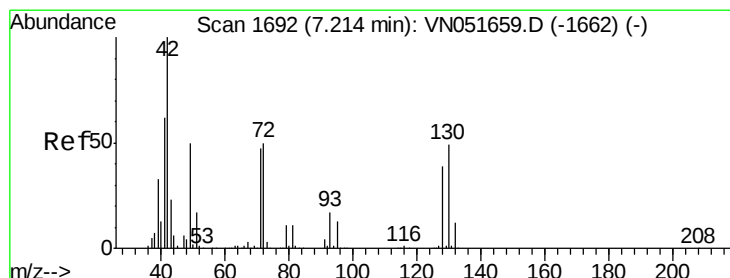
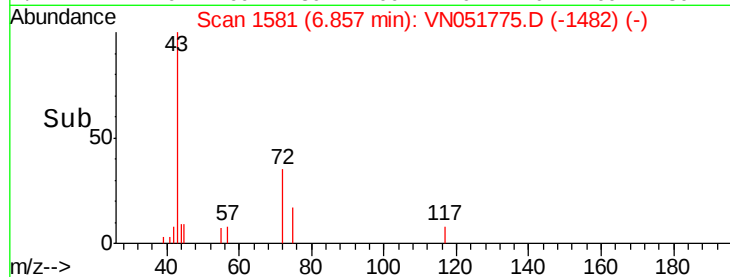


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time--> 6.75 6.80 6.85 6.90



#29

Tetrahydrofuran

Concen: 0.757 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051775.D

Acq: 10 Oct 2018 2:22

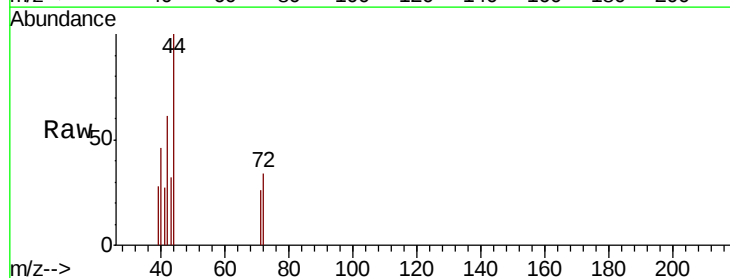
Tgt Ion: 42 Resp: 1288

Ion Ratio Lower Upper

42 100

72 37.5 40.1 60.1#

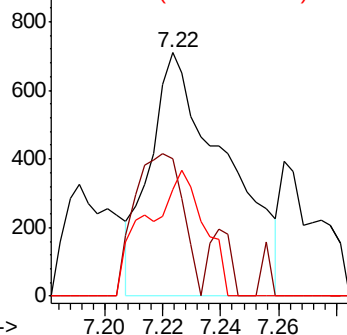
71 39.2 38.0 57.0



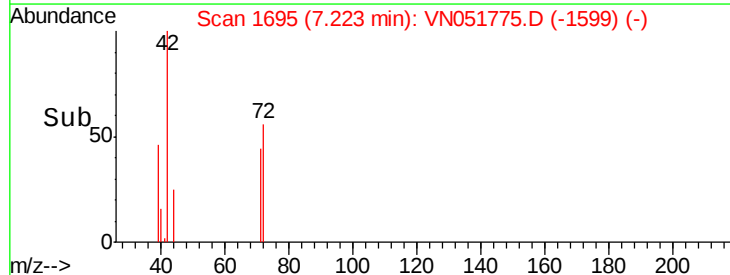
Abundance Ion 42.00 (41.70 to 42.70): VN0

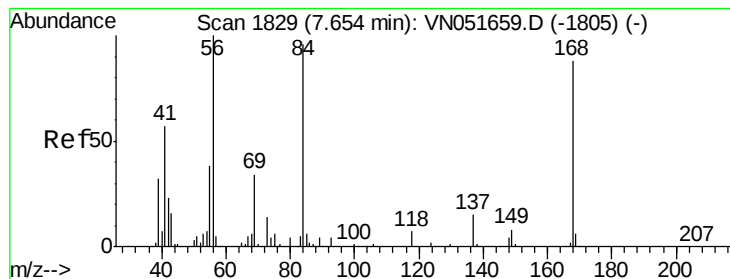
Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time--> 7.20 7.22 7.24 7.26





#31

Cyclohexane

Concen: 1.056 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051775.D

Acq: 10 Oct 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

SOIL-DEBRI

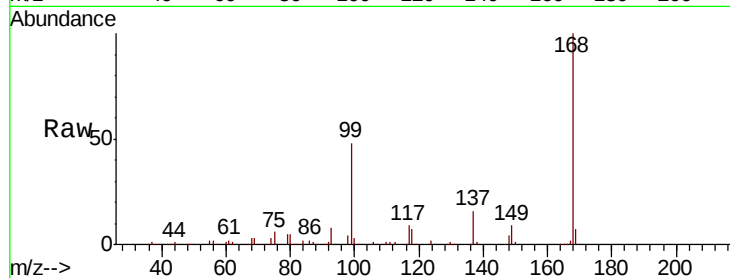
Tot Ion: 56 Resp: 13768

Ion Ratio Lower Upper

56 100

69 146.5 27.5 41.3#

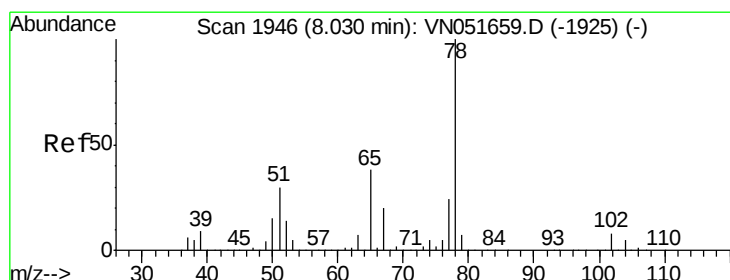
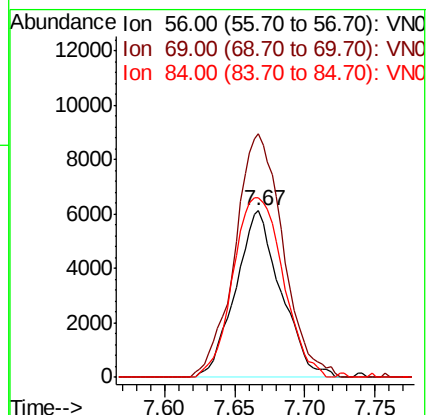
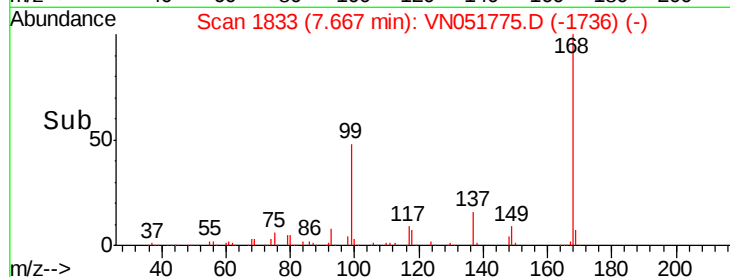
84 107.9 76.7 115.1



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051775.D

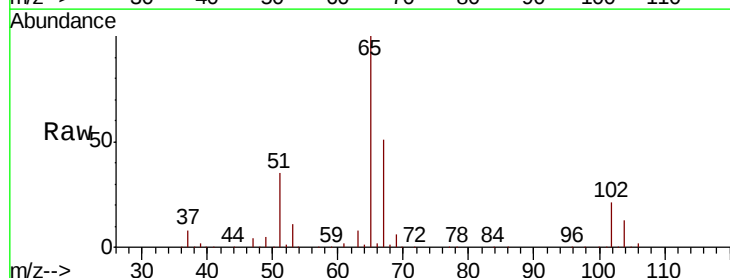
Acq: 10 Oct 2018 2:22

Tgt Ion: 65 Resp: 430579

Ion Ratio Lower Upper

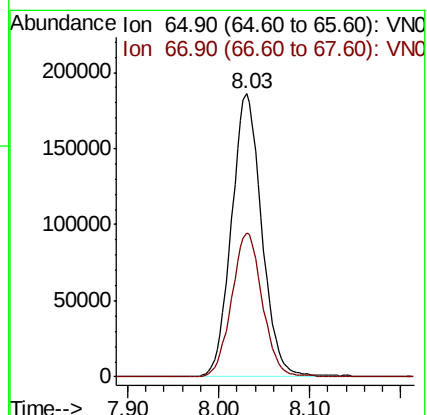
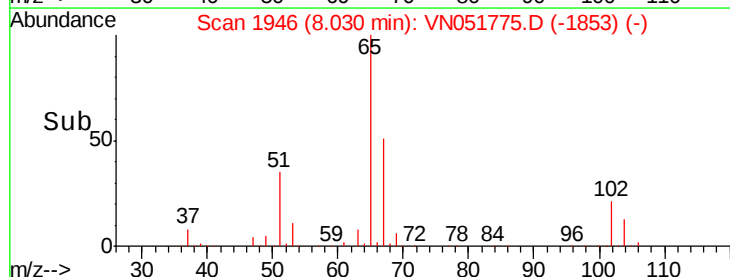
65 100

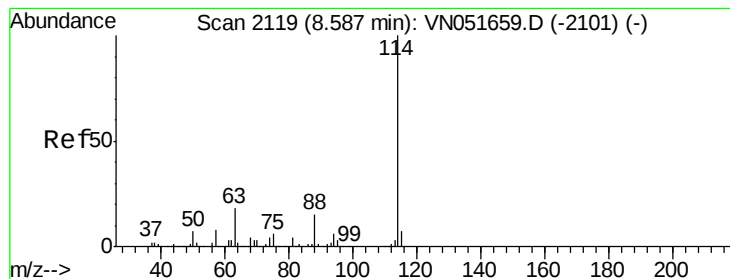
67 51.2 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051775.D

Acq: 10 Oct 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

SOIL-DEBRI

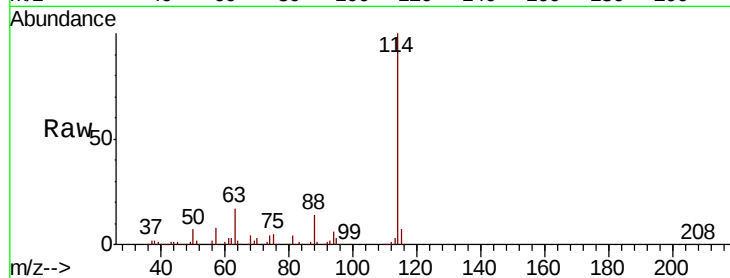
Tot Ion:114 Resp: 1044899

Ion Ratio Lower Upper

114 100

63 17.4 0.0 36.2

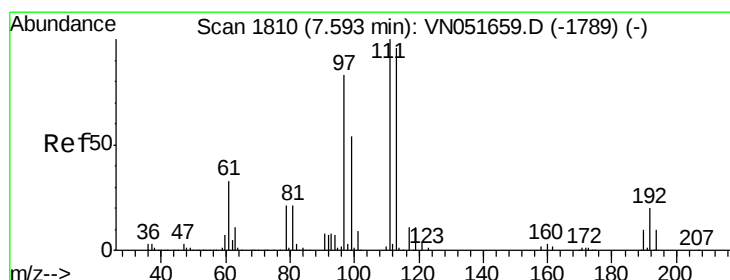
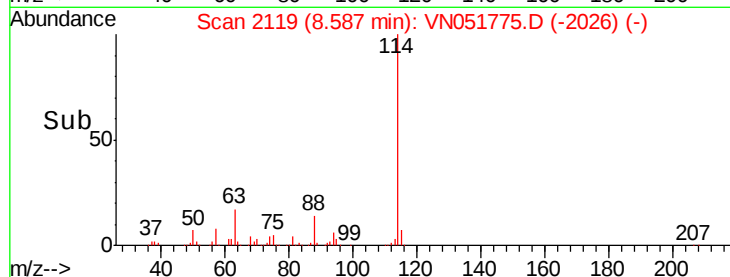
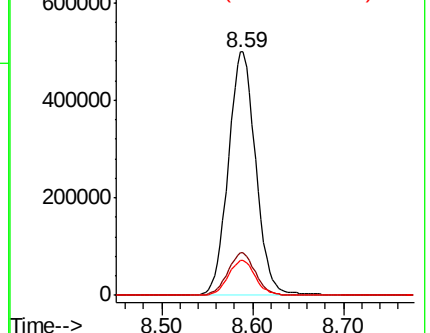
88 14.2 0.0 30.2



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: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051775.D

Acq: 10 Oct 2018 2:22

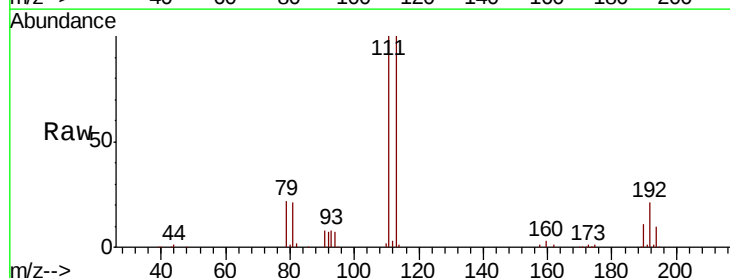
Tgt Ion:113 Resp: 392589

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

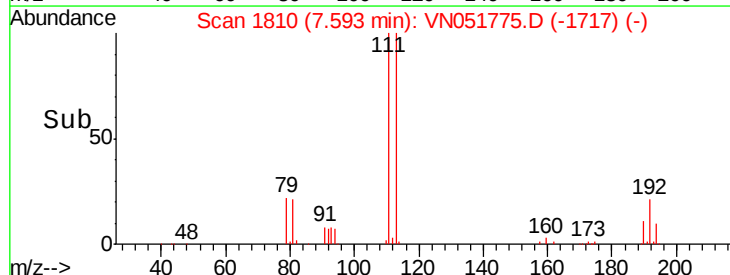
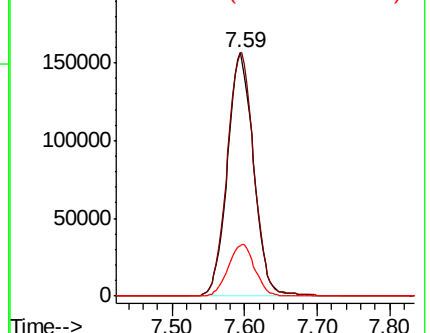
192 21.6 16.5 24.7

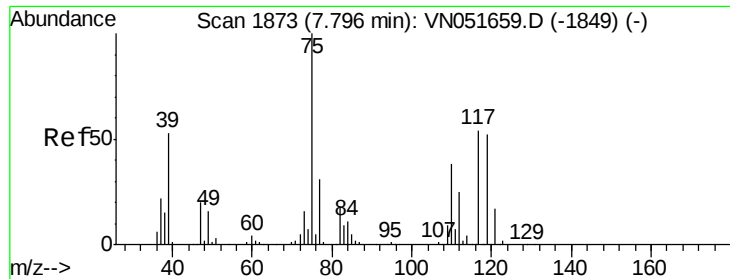


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

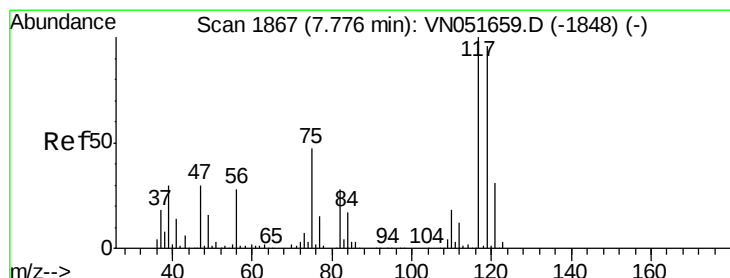
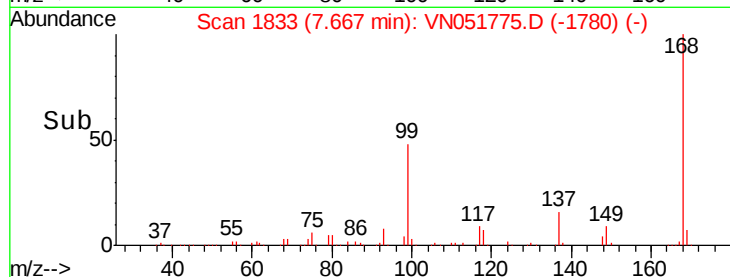
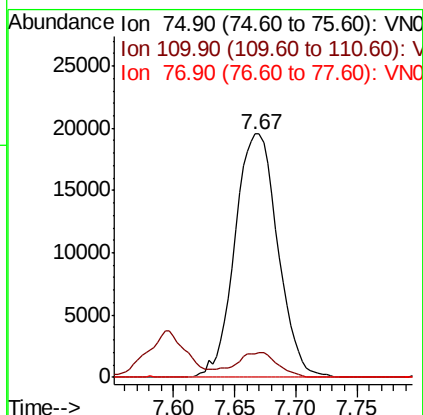
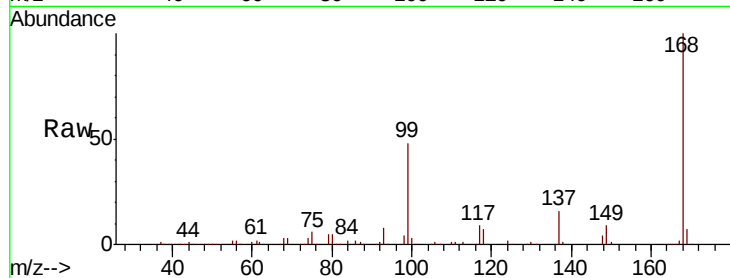




#36
 1,1-Dichloropropene
 Concen: 4.350 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051775.D
 Acq: 10 Oct 2018 2:22

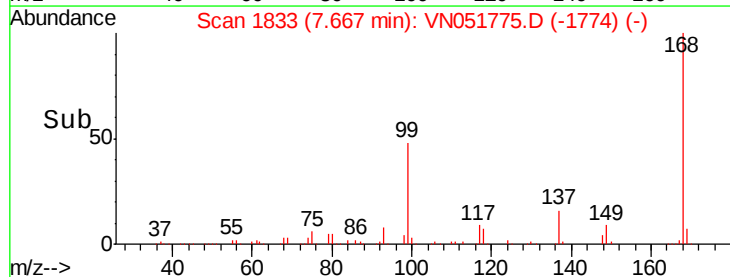
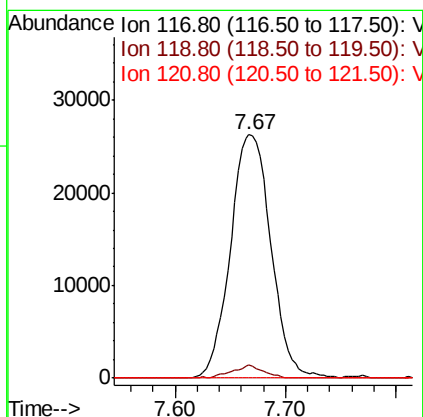
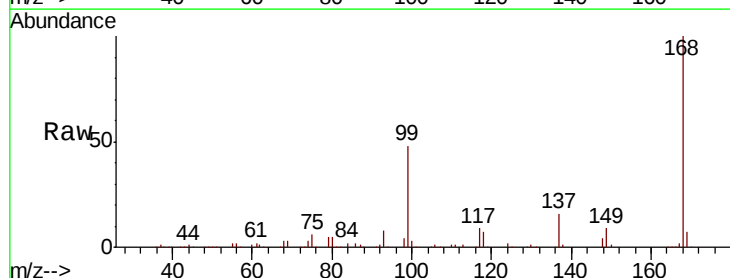
Instrument :
 MSVOA_N
 ClientSampled :
 SOIL-DEBRI

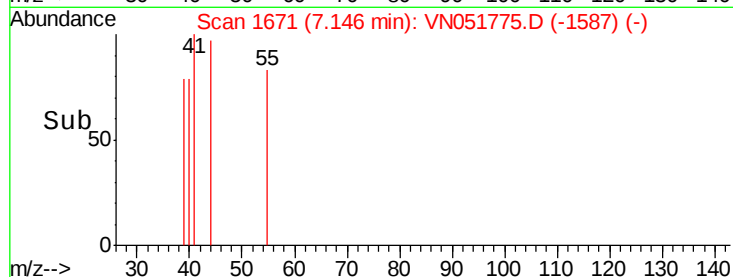
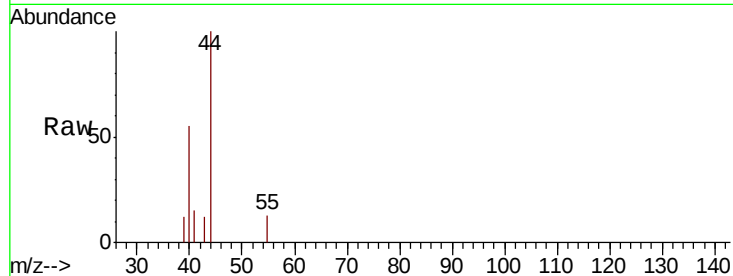
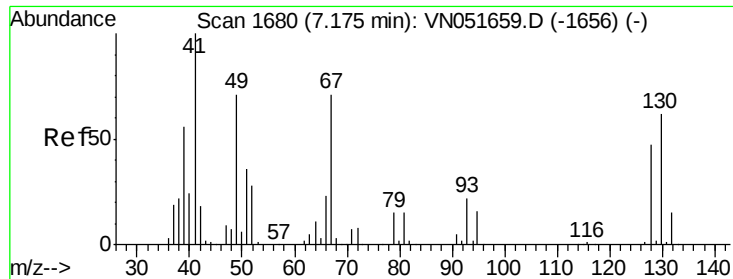
Tot Ion	75	Resp	47512
Ion Ratio	100	Lower	Upper
75	100		
110	9.3	19.3	57.8#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 5.098 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051775.D
 Acq: 10 Oct 2018 2:22

Tgt Ion	117	Resp	66815
Ion Ratio	100	Lower	Upper
117	100		
119	5.2	77.0	115.6#
121	0.0	25.0	37.6#

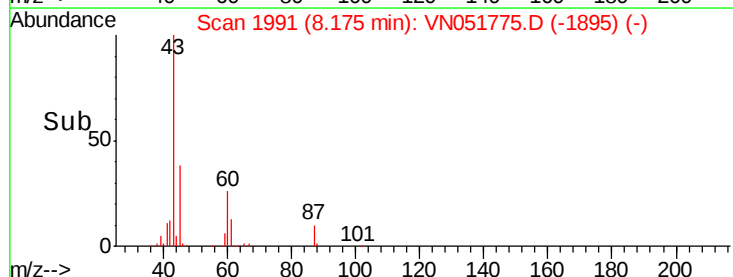
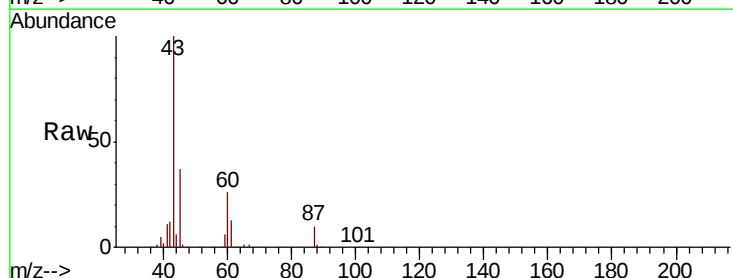
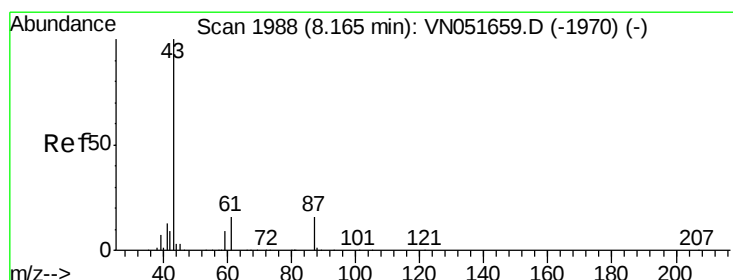
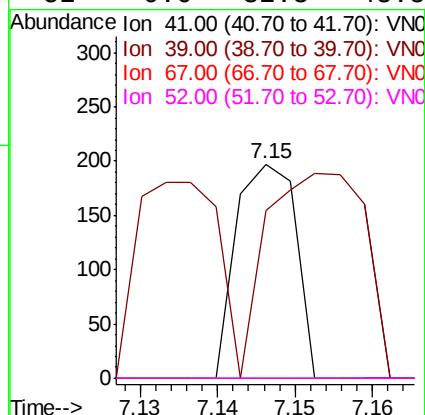




#41
Methacrylonitrile
Concen: Below Cal
RT: 7.15 min Scan# 1671
Delta R.T. -0.03 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

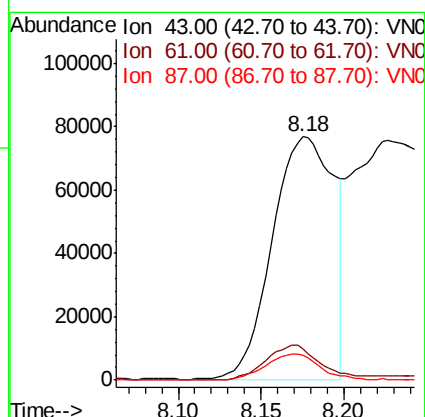
Instrument :
MSVOA_N
ClientSampleId :
SOIL-DEBRI

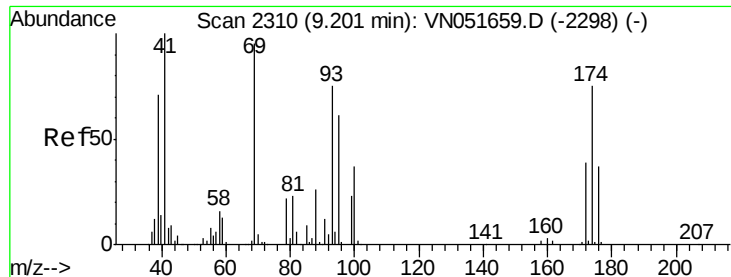
Tot Ion: 41 Resp: 106
Ion Ratio Lower Upper
41 100
39 157.5 53.9 80.9#
67 0.0 78.1 117.1#
52 0.0 32.3 48.5#



#43
Isopropyl Acetate
Concen: 16.705 ug/l
RT: 8.18 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Tgt Ion: 43 Resp: 198393
Ion Ratio Lower Upper
43 100
61 12.8 15.8 23.6#
87 9.5 12.6 19.0#

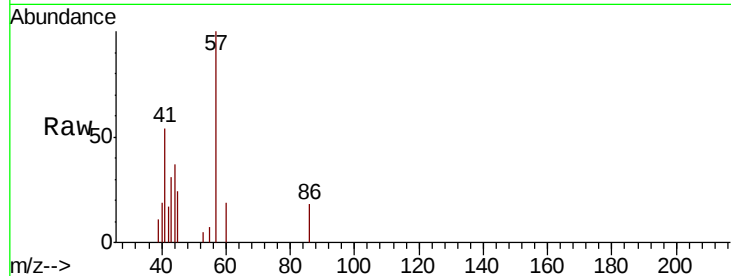




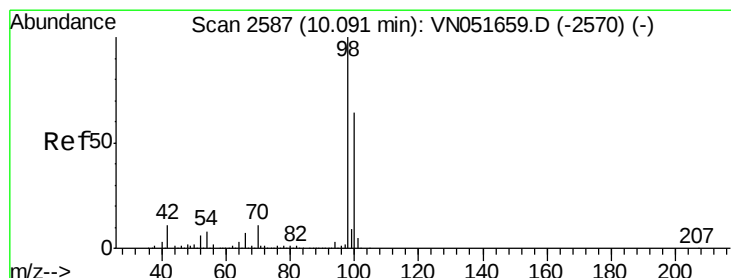
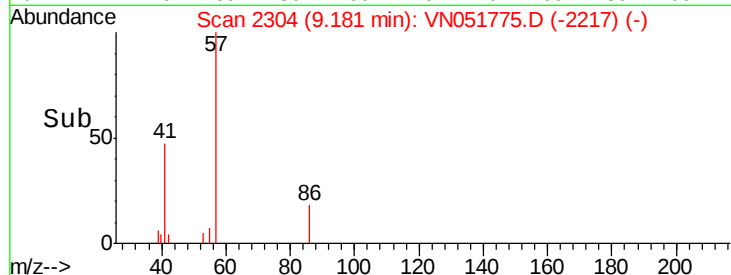
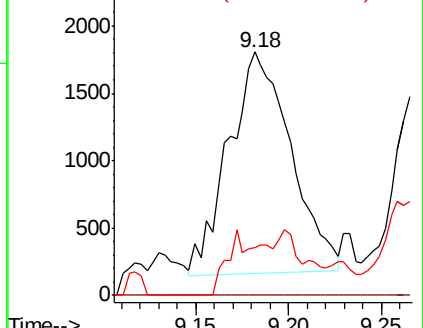
#48
Methyl methacrylate
Concen: 0.703 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Instrument :
MSVOA_N
ClientSampleId :
SOIL-DEBRI

Tot Ion: 41 Resp: 3814
Ion Ratio Lower Upper
41 100
69 0.0 78.6 118.0#
39 9.5 59.2 88.8#

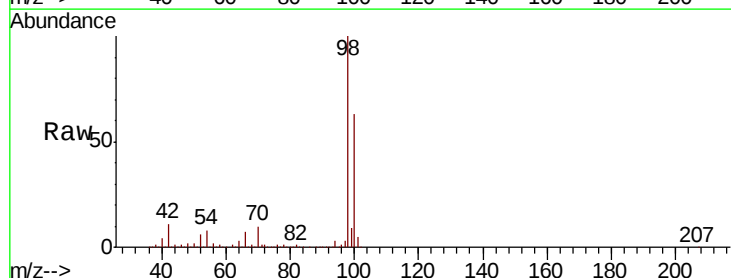


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

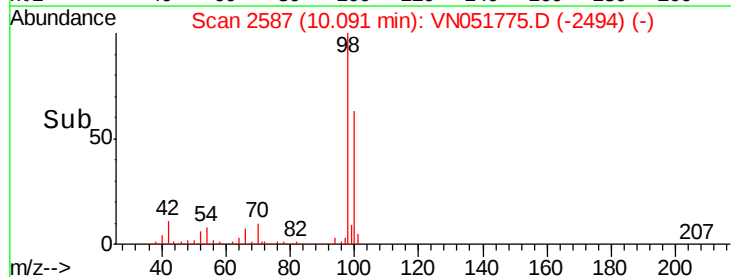
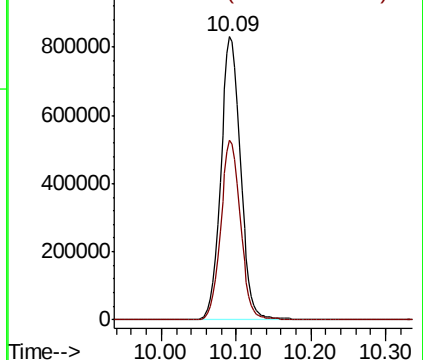


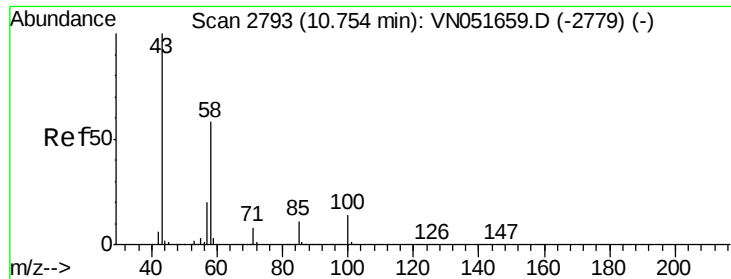
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Tgt Ion: 98 Resp: 1514846
Ion Ratio Lower Upper
98 100
100 63.5 51.5 77.3



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

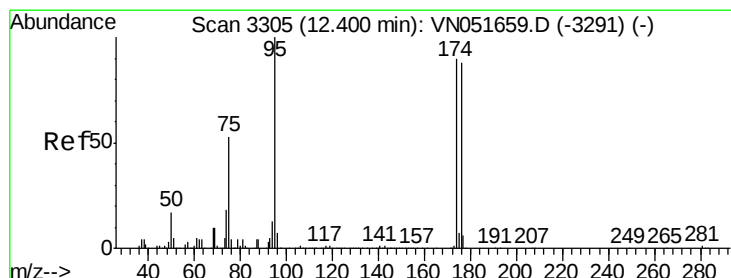
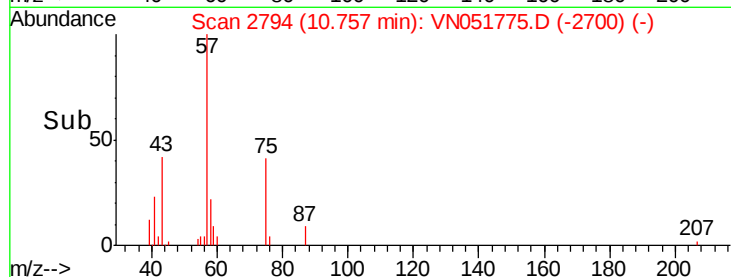
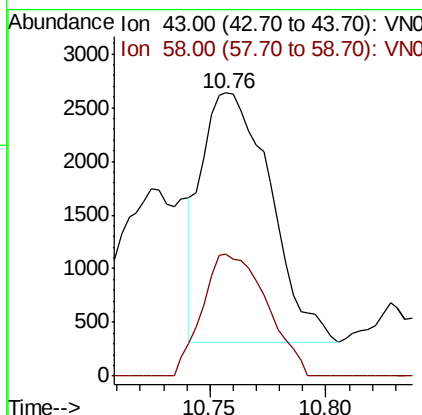
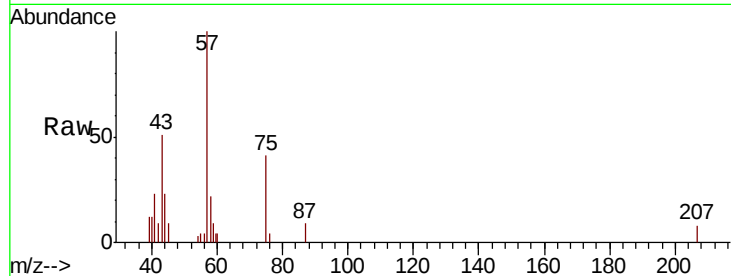




#59
2-Hexanone
Concen: 1.164 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

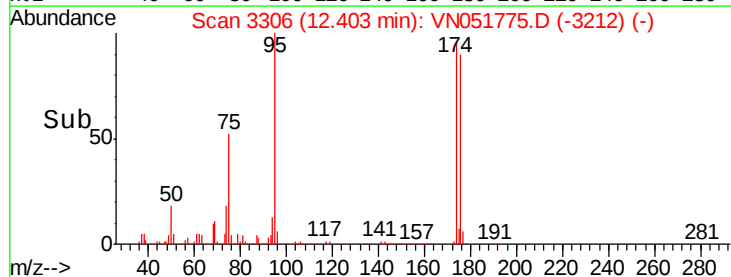
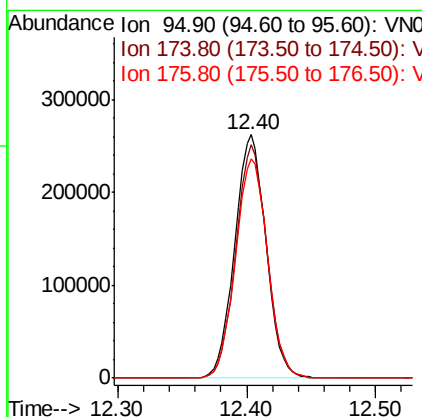
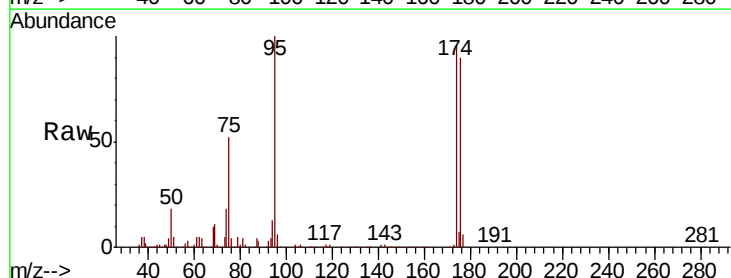
Instrument :
MSVOA_N
ClientSampled :
SOIL-DEBRI

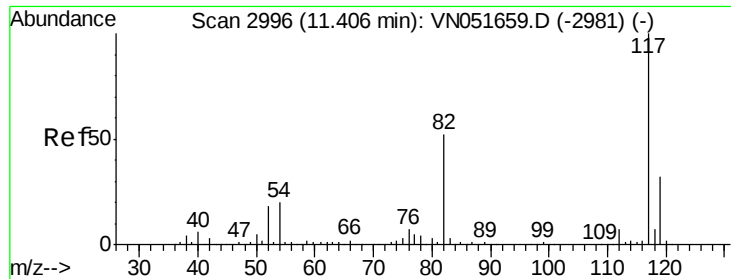
Tot Ion: 43 Resp: 4756
Ion Ratio Lower Upper
43 100
58 46.1 28.8 86.4



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Tgt Ion: 95 Resp: 442097
Ion Ratio Lower Upper
95 100
174 95.3 0.0 182.8
176 92.2 0.0 176.4

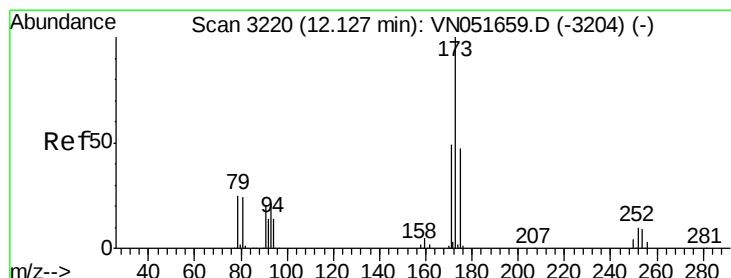
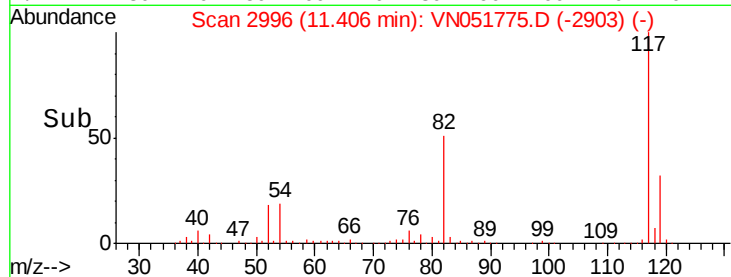
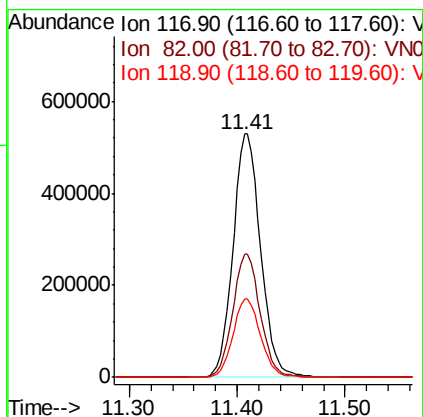
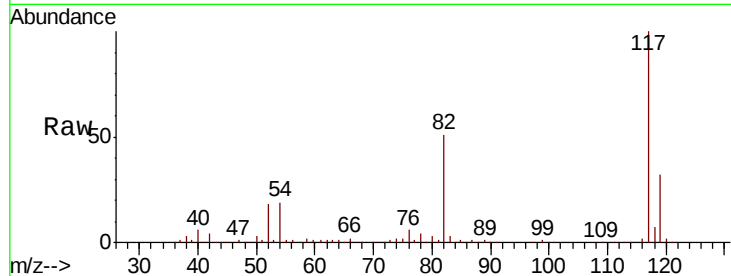




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

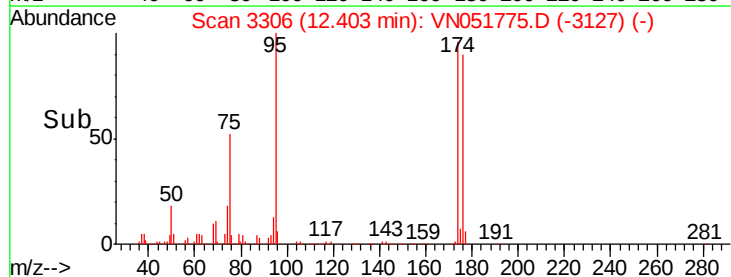
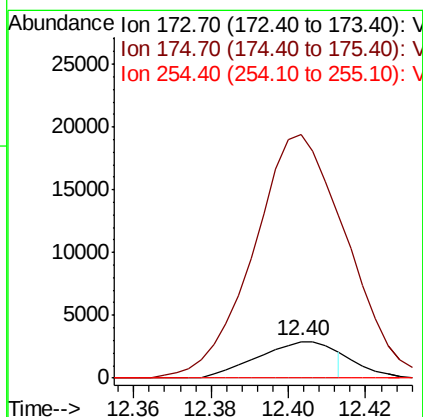
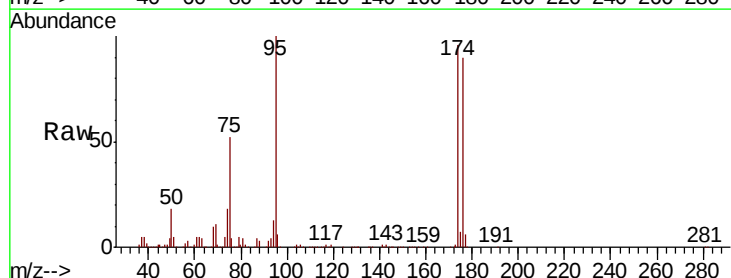
Instrument :
MSVOA_N
ClientSampleId :
SOIL-DEBRI

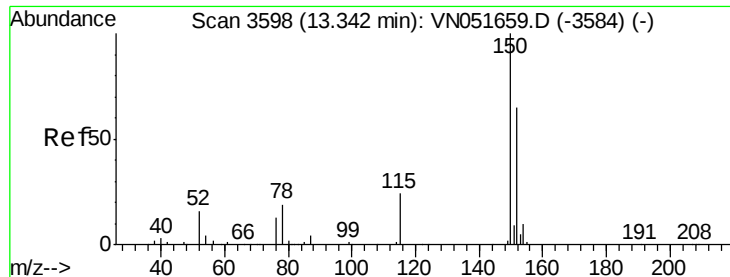
Tot Ion:117 Resp: 944009
Ion Ratio Lower Upper
117 100
82 50.5 41.3 61.9
119 32.3 25.9 38.9



#71
Bromoform
Concen: 0.566 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Tgt Ion:173 Resp: 3940
Ion Ratio Lower Upper
173 100
175 688.6 24.0 72.0#
254 0.0 0.1 0.1#



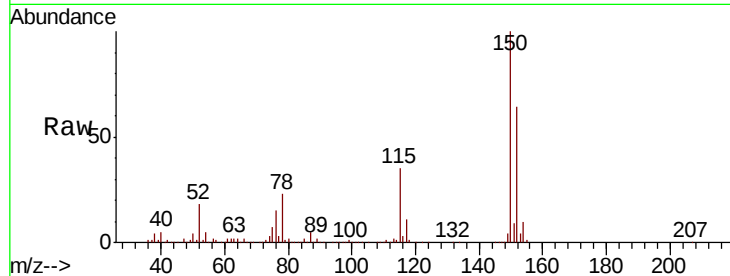


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Instrument :
MSVOA_N
ClientSampleId :
SOIL-DEBRI

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.2	28.6	85.8
150	156.1	0.0	352.4

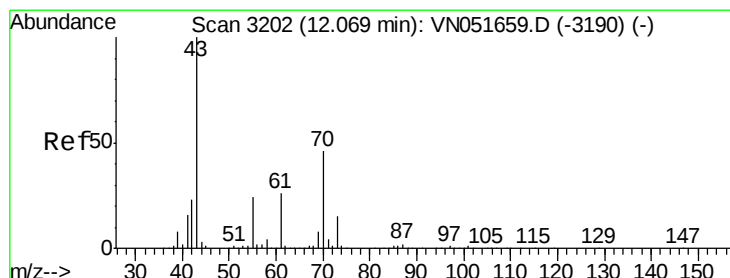
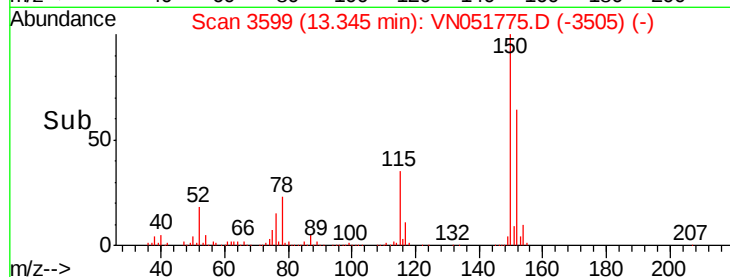
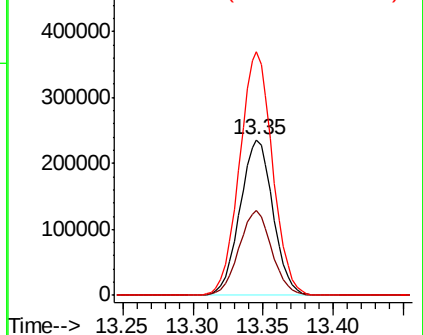


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

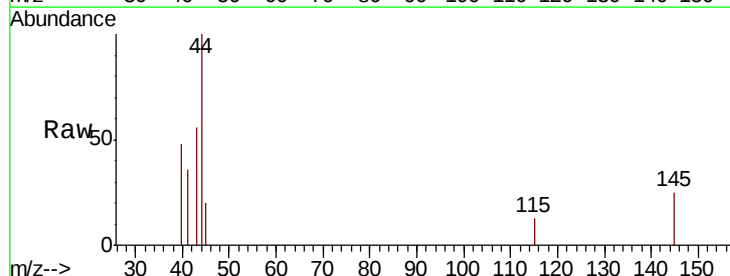
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: Below Cal
RT: 12.06 min Scan# 3199
Delta R.T. -0.01 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.1	55.7#
55	0.0	19.1	28.7#
61	0.0	20.8	31.2#



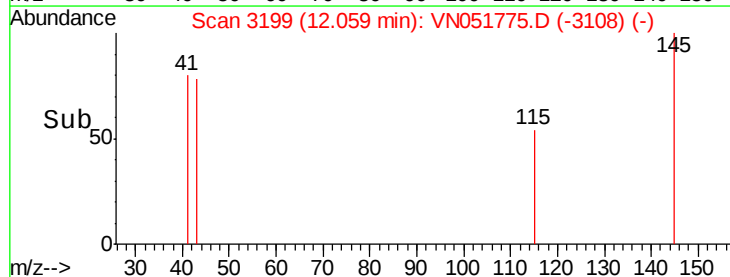
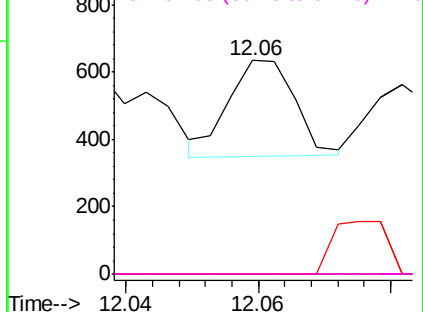
Abundance

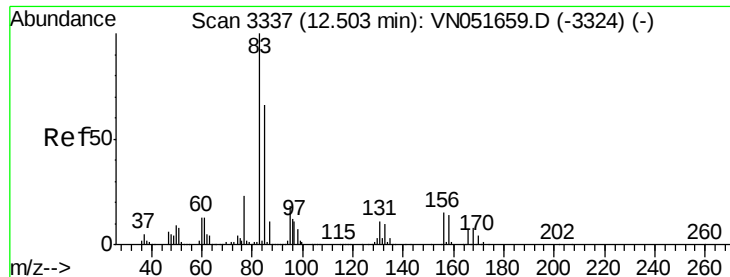
Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.53 min Scan# 3346

Delta R.T. 0.03 min

Lab File: VN051775.D

Acq: 10 Oct 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

SOIL-DEBRI

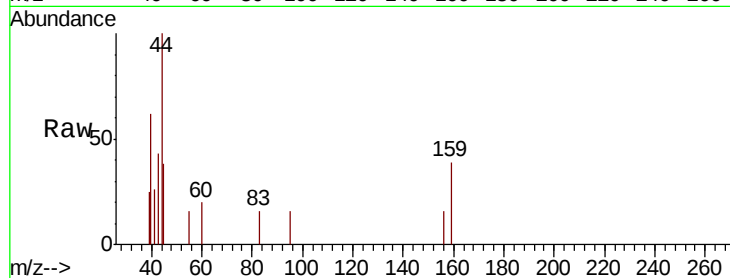
Tot Ion: 83 Resp: 31

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

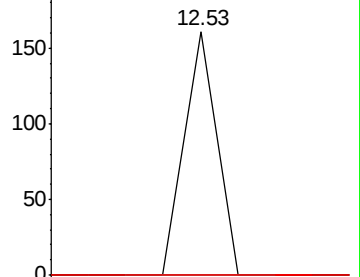
85 0.0 33.0 98.9#



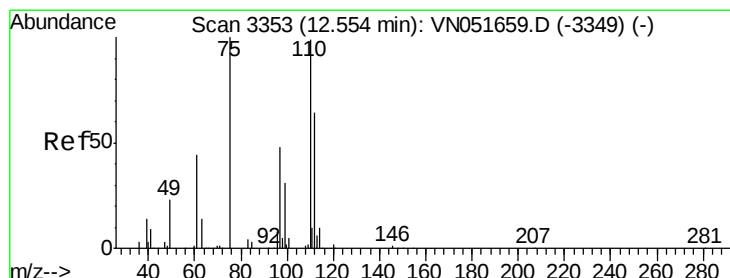
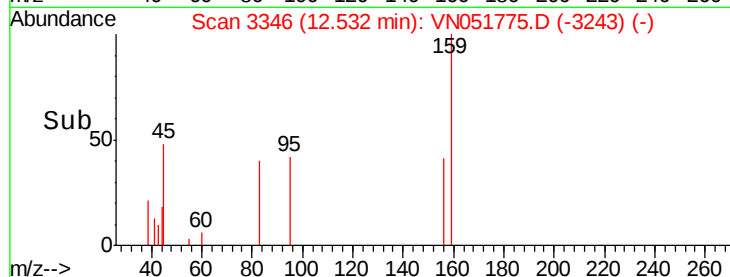
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



Time--> 12.52 12.53 12.54



#76

1,2,3-Trichloropropane

Concen: 48.242 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051775.D

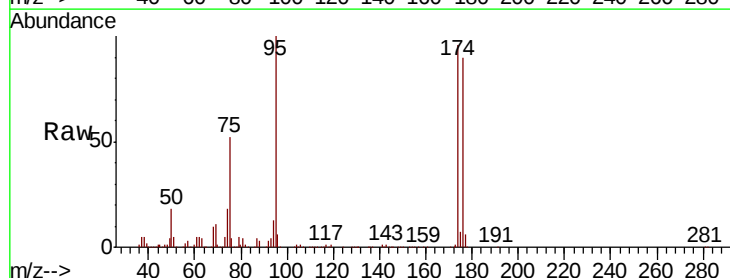
Acq: 10 Oct 2018 2:22

Tgt Ion: 75 Resp: 232261

Ion Ratio Lower Upper

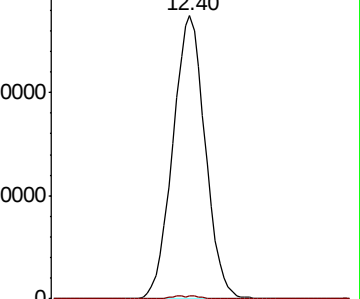
75 100

77 1.0 0.0 0.0#

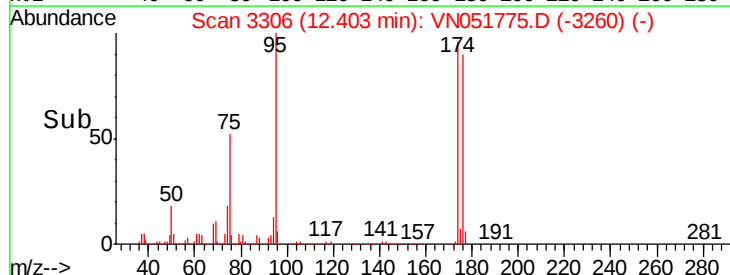


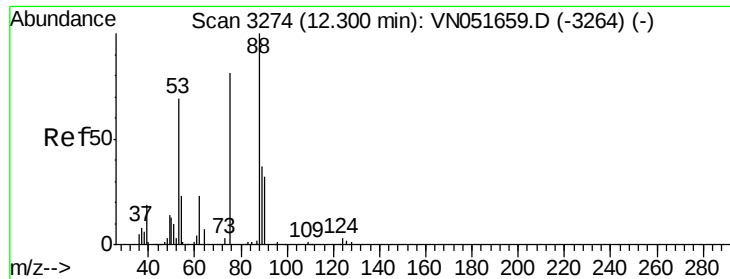
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50

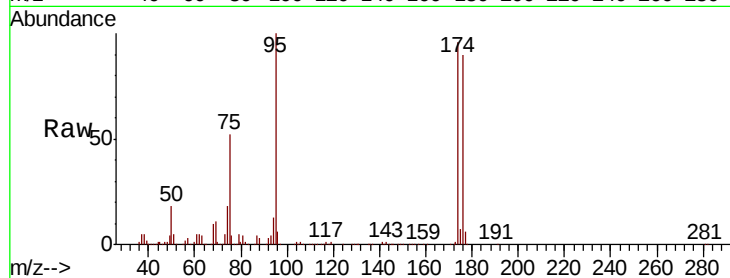




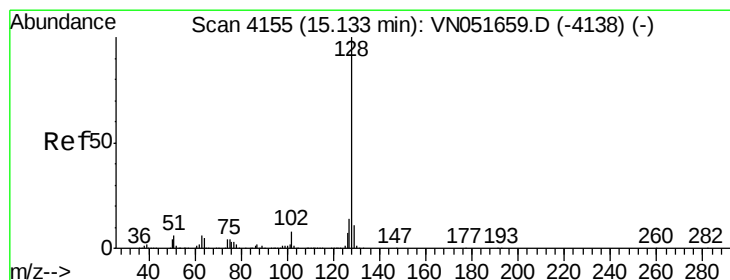
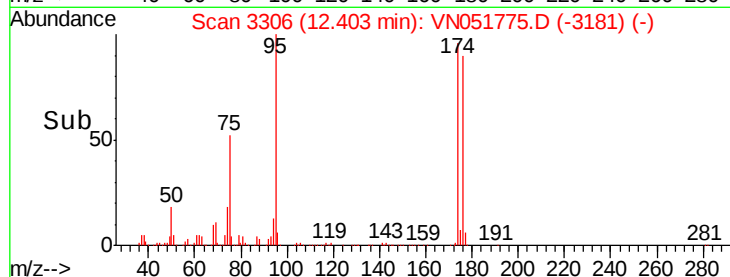
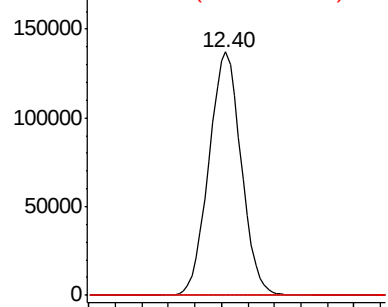
#81
trans-1,4-Dichloro-2-butene
Concen: 110.515 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Instrument :
MSVOA_N
ClientSampleId :
SOIL-DEBRI

Tot Ion: 75 Resp: 232261
Ion Ratio Lower Upper
75 100
53 0.0 68.6 102.8#
89 0.0 39.4 59.2#

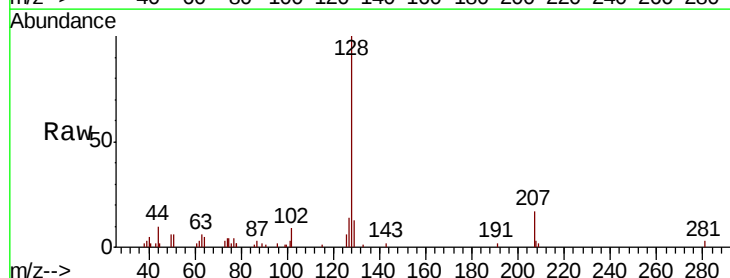


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 1.931 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051775.D
Acq: 10 Oct 2018 2:22

Tgt Ion:128 Resp: 25882
Ion Ratio Lower Upper
128 100
127 14.6 10.6 15.8
129 11.7 9.0 13.6



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

