

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051683.D
 Acq On : 5 Oct 2018 13:38
 Operator : MD\SY
 Sample : J5237-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-SOIL

Quant Time: Oct 05 14:54:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	95785	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	525507	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	419977	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		8.03	65	198228	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%	
60) 4-Bromofluorobenzene		12.40	95	141607	22.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	73.67%	
63) Toluene-d8		10.09	98	619959	33.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	110.83%	

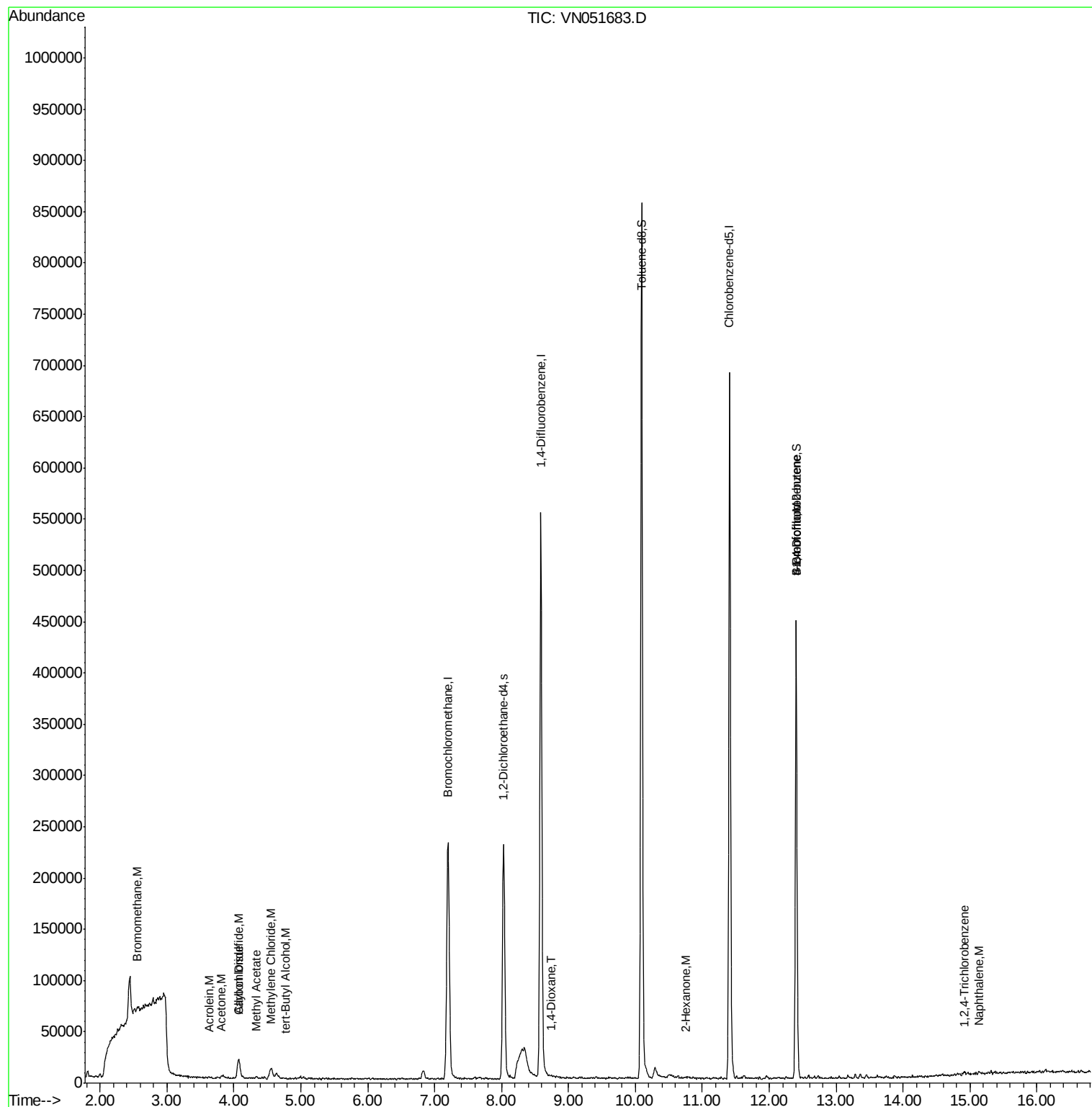
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Bromomethane	2.57	94	2689	0.415	ug/l	86
12) Methyl Acetate	4.34	43	1011	0.287	ug/l #	48
13) Acrolein	3.63	56	255	0.983	ug/l	96
15) Acetone	3.82	58	487	1.415	ug/l #	1
16) Carbon Disulfide	4.06	76	4280	0.335	ug/l #	94
17) Allyl chloride	4.08	41	2055	0.315	ug/l	88
18) Methylene Chloride	4.55	84	4393	0.871	ug/l #	83
23) tert-Butyl Alcohol	4.77	59	188	0.505	ug/l #	100
45) 1,4-Dioxane	8.74	88	145	2.899	ug/l #	34
56) Bromoform	12.41	173	1449	0.305	ug/l #	1
59) 2-Hexanone	10.76	43	692	0.296	ug/l #	51
77) t-1,4-Dichloro-2-butene	12.40	75	78394	49.753	ug/l #	12
89) 1,2,4-Trichlorobenzene	14.90	180	356	6.886	ug/l #	87
91) Naphthalene	15.14	128	2974	0.295	ug/l #	70

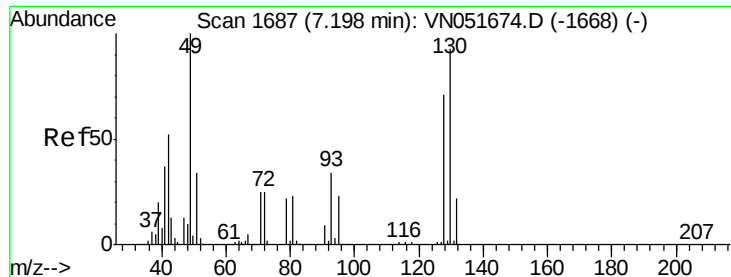
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051683.D

Acq: 5 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampleId :

TRIP-SOIL

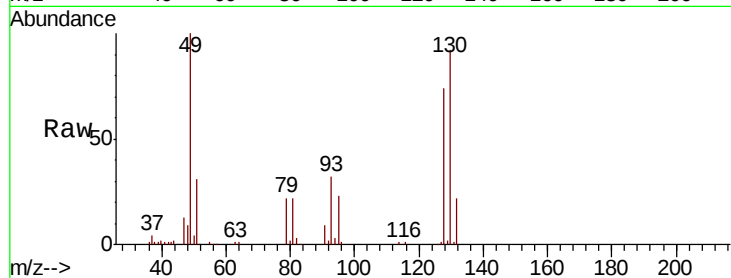
Tot Ion:128 Resp: 95785

Ion Ratio Lower Upper

128 100

49 137.8 0.0 403.3

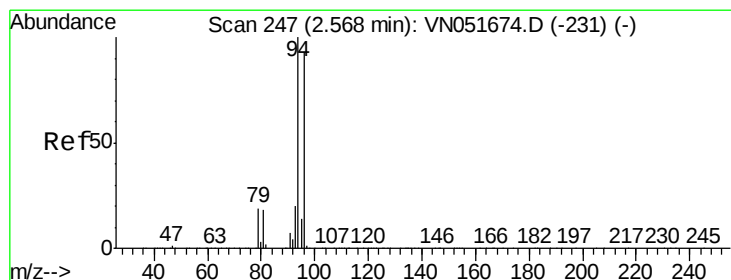
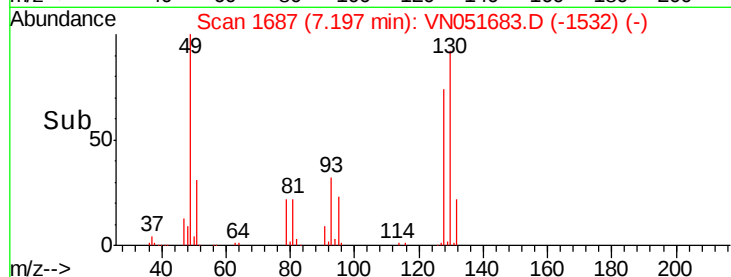
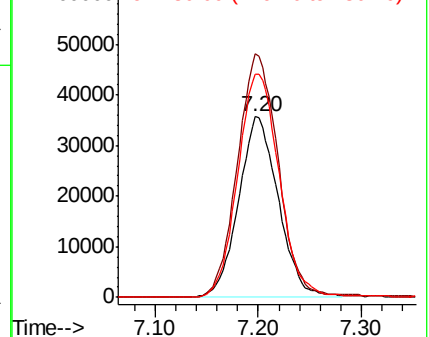
130 128.7 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.415 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051683.D

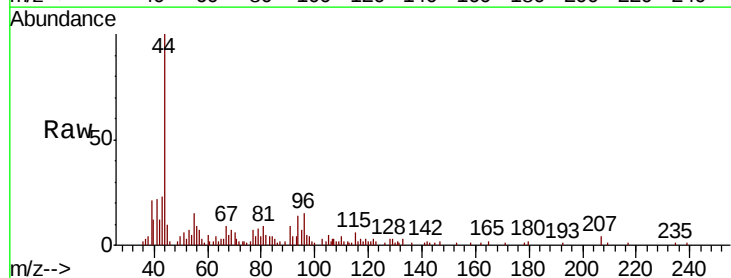
Acq: 5 Oct 2018 13:38

Tgt Ion: 94 Resp: 2689

Ion Ratio Lower Upper

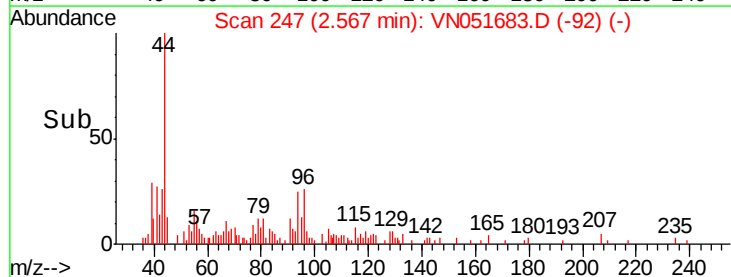
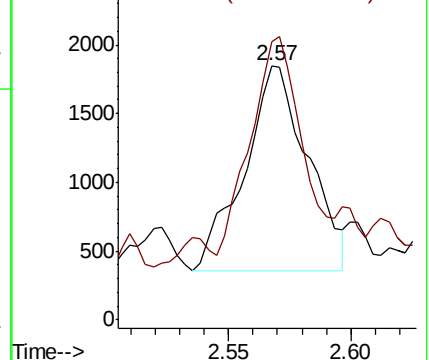
94 100

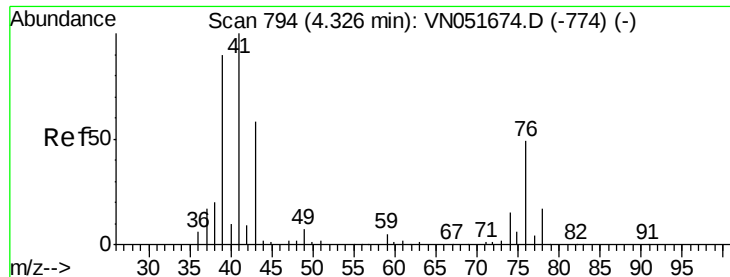
96 95.8 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0





#12

Methyl Acetate

Concen: 0.287 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051683.D

Acq: 5 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

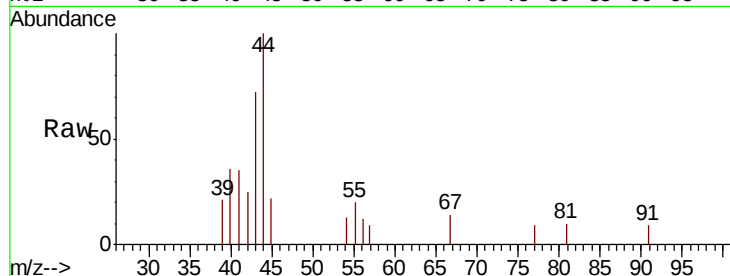
TRIP-SOIL

Tot Ion: 43 Resp: 1011

Ion Ratio Lower Upper

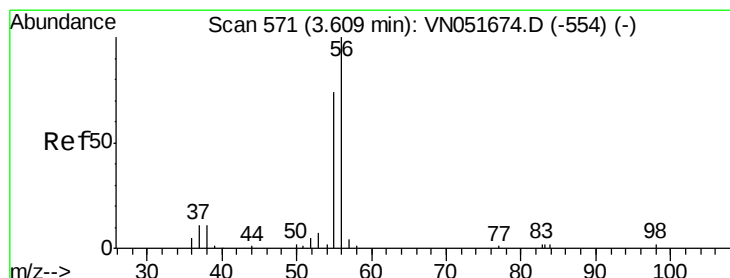
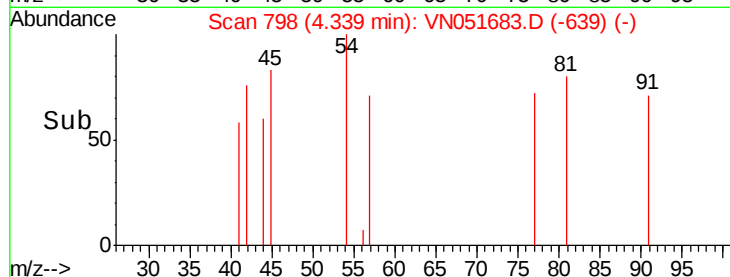
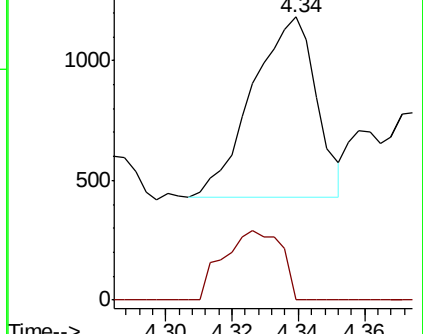
43 100

74 0.0 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#13

Acrolein

Concen: 0.983 ug/l

RT: 3.63 min Scan# 578

Delta R.T. 0.02 min

Lab File: VN051683.D

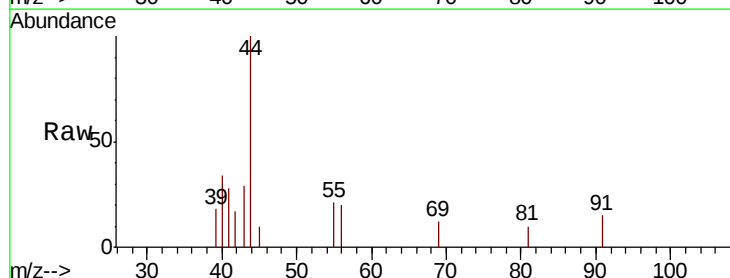
Acq: 5 Oct 2018 13:38

Tgt Ion: 56 Resp: 255

Ion Ratio Lower Upper

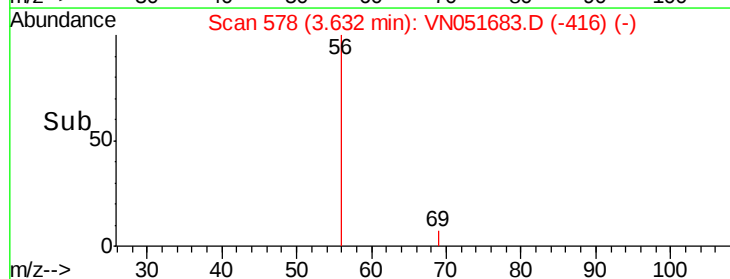
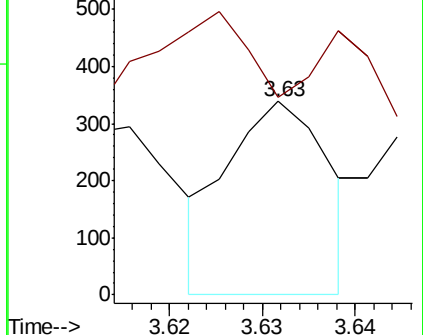
56 100

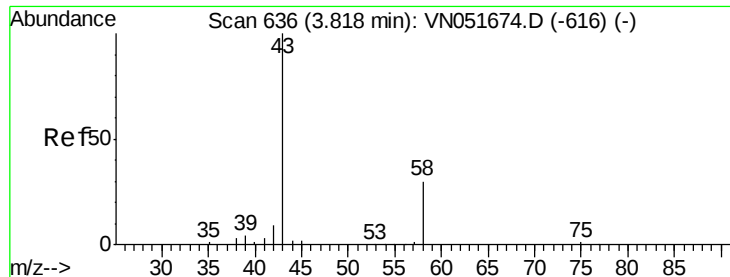
55 76.1 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 1.415 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051683.D

Acq: 5 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

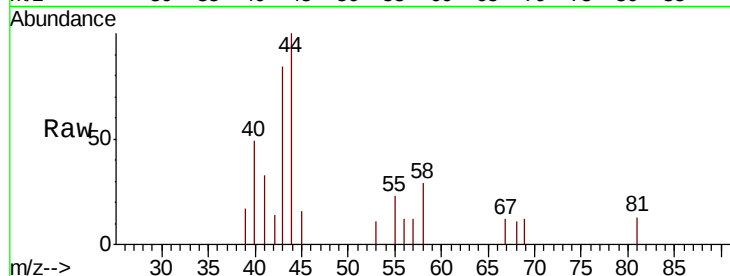
TRIP-SOIL

Tot Ion: 58 Resp: 487

Ion Ratio Lower Upper

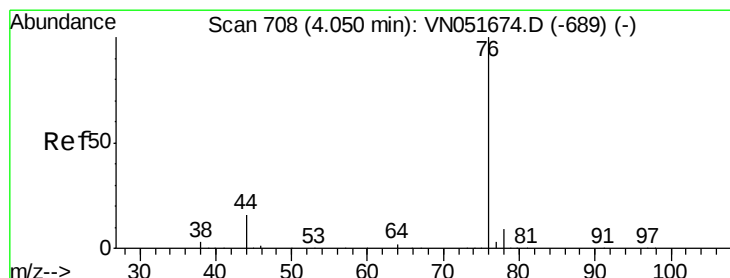
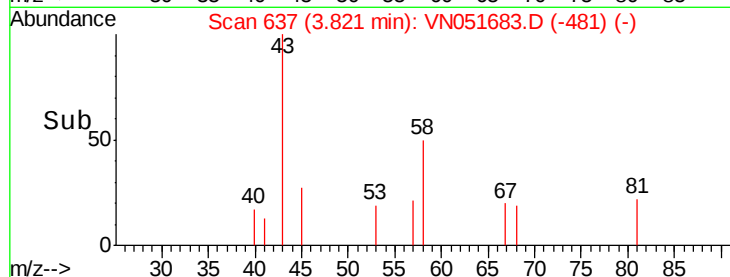
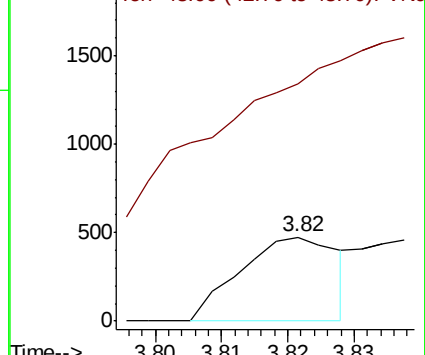
58 100

43 71.3 232.2 348.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 0.335 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN051683.D

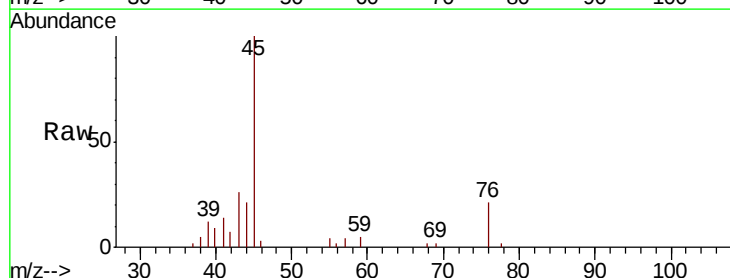
Acq: 5 Oct 2018 13:38

Tgt Ion: 76 Resp: 4280

Ion Ratio Lower Upper

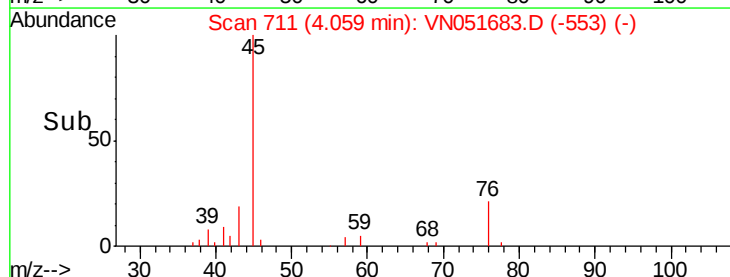
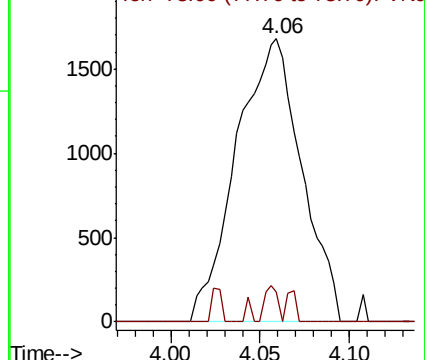
76 100

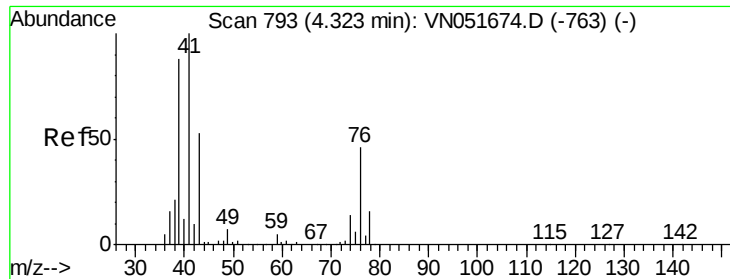
78 10.7 6.7 10.1#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

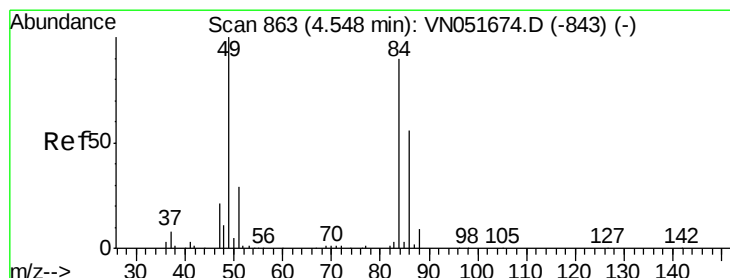
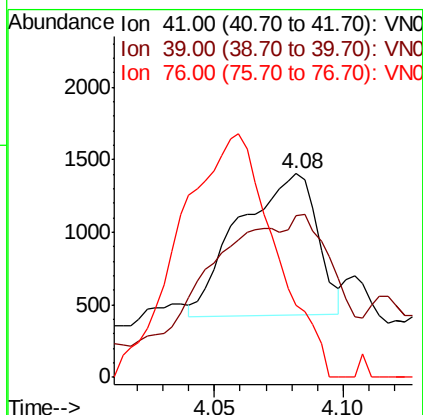
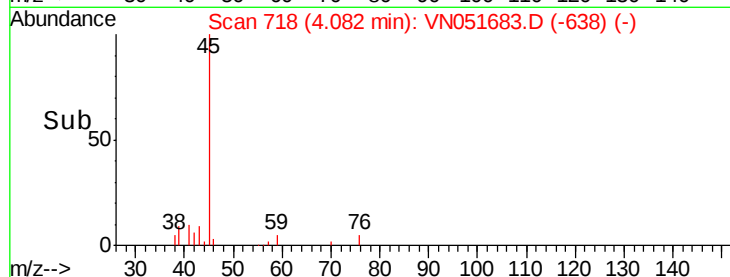
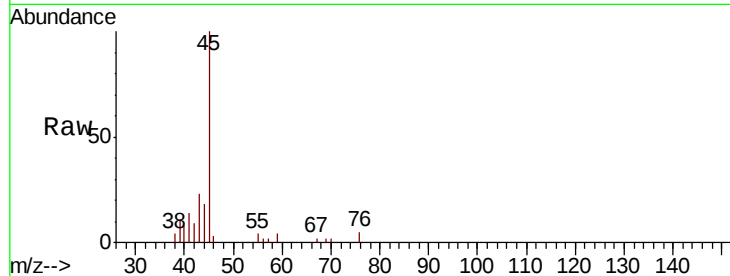




#17
Allvl chloride
Concen: 0.315 ug/l
RT: 4.08 min Scan# 718
Delta R.T. -0.24 min
Lab File: VN051683.D
Acq: 5 Oct 2018 13:38

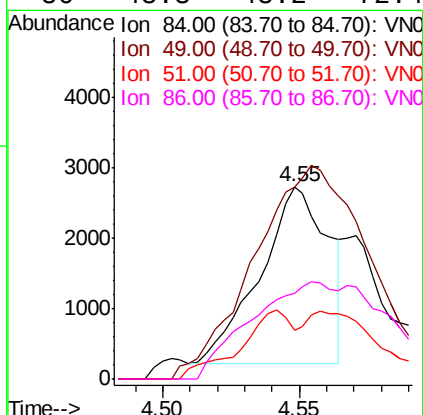
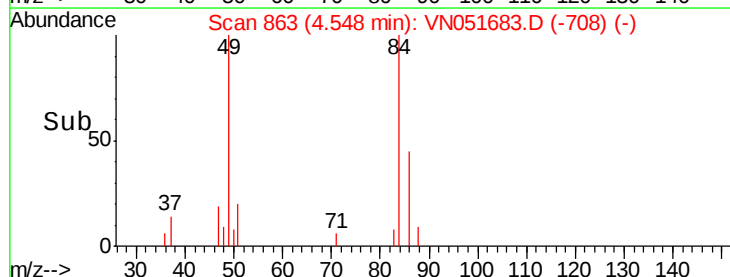
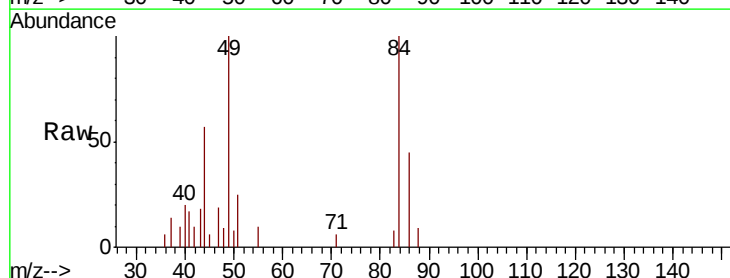
Instrument :
MSVOA_N
ClientSampleId :
TRIP-SOIL

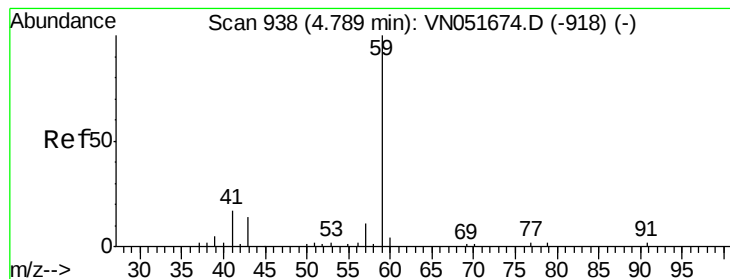
Tot Ion: 41 Resp: 2055
Ion Ratio Lower Upper
41 100
39 61.5 32.6 97.8
76 54.6 20.2 60.5



#18
Methylene Chloride
Concen: 0.871 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN051683.D
Acq: 5 Oct 2018 13:38

Tgt Ion: 84 Resp: 4393
Ion Ratio Lower Upper
84 100
49 99.4 91.6 137.4
51 21.5 29.8 44.6#
86 48.3 48.2 72.4





#23

tert-Butyl Alcohol

Concen: 0.505 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.02 min

Lab File: VN051683.D

Acq: 5 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

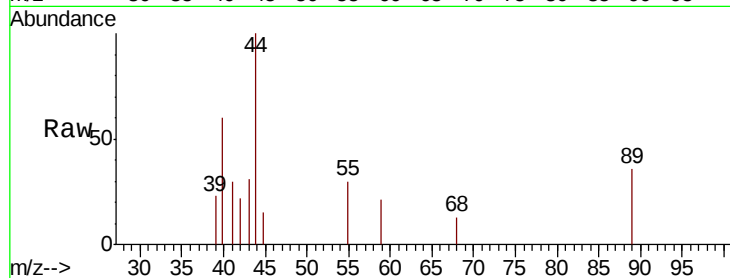
TRIP-SOIL

Tot Ion: 59 Resp: 188

Ion Ratio Lower Upper

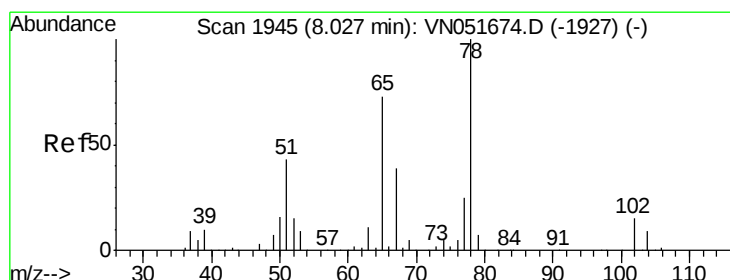
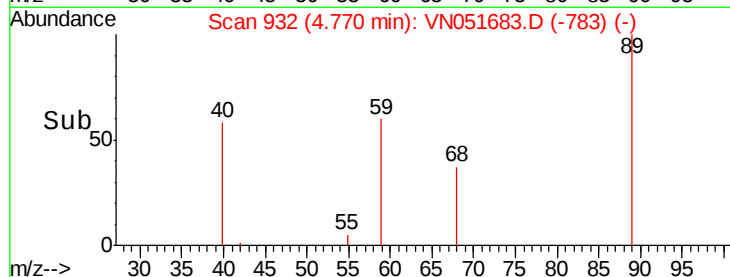
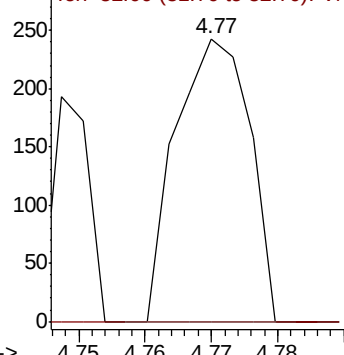
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051683.D

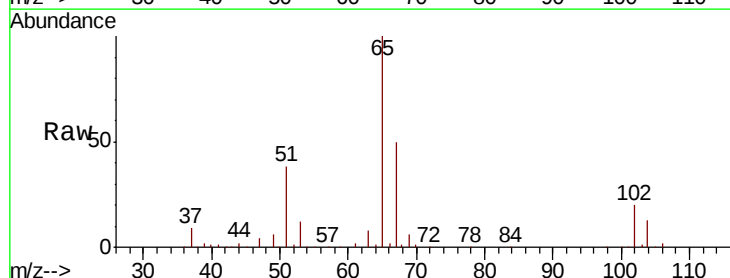
Acq: 5 Oct 2018 13:38

Tgt Ion: 65 Resp: 198228

Ion Ratio Lower Upper

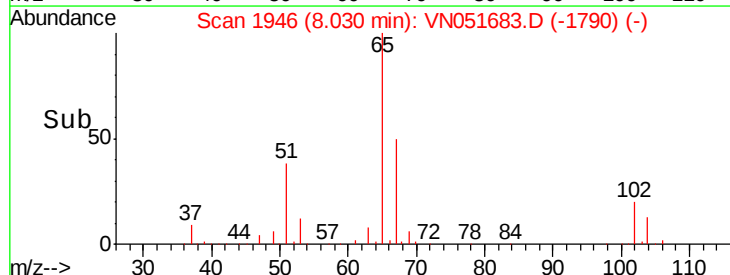
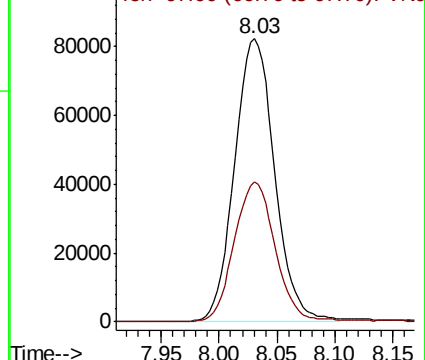
65 100

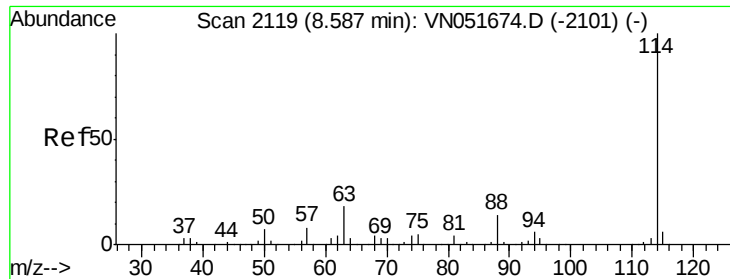
67 50.2 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

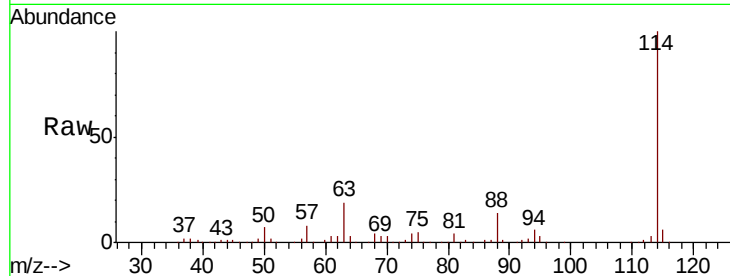




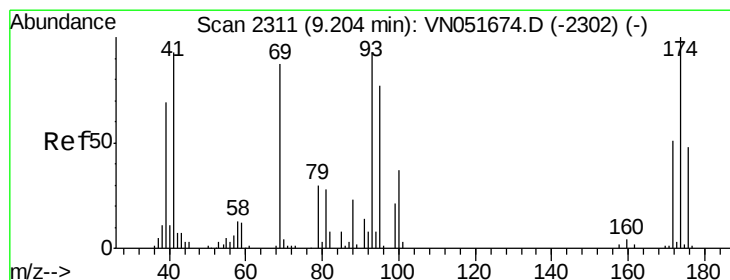
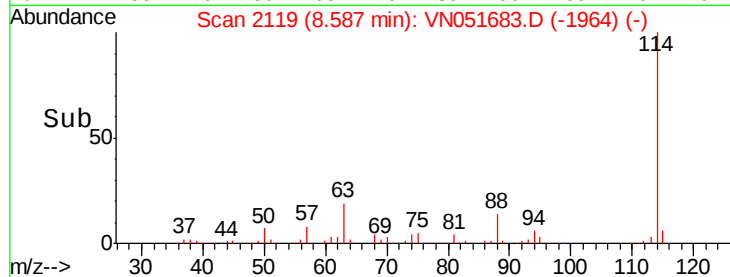
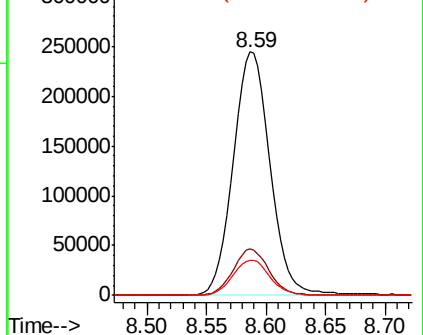
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051683.D
 Acq: 5 Oct 2018 13:38

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-SOIL

Tot Ion:114 Resp: 525507
 Ion Ratio Lower Upper
 114 100
 63 18.5 16.2 24.2
 88 14.6 12.2 18.4

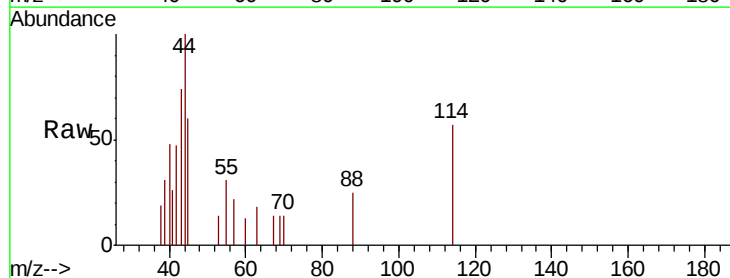


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

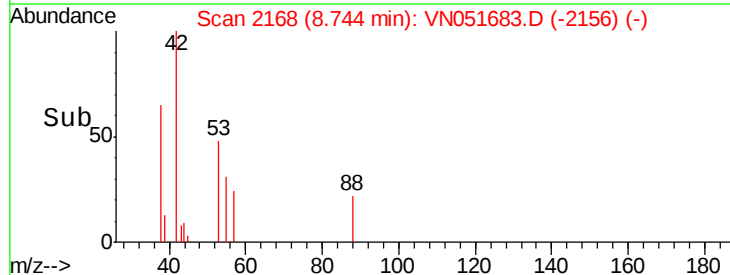
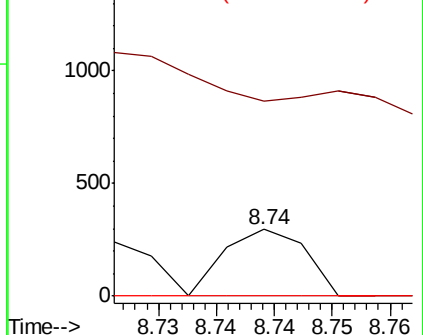


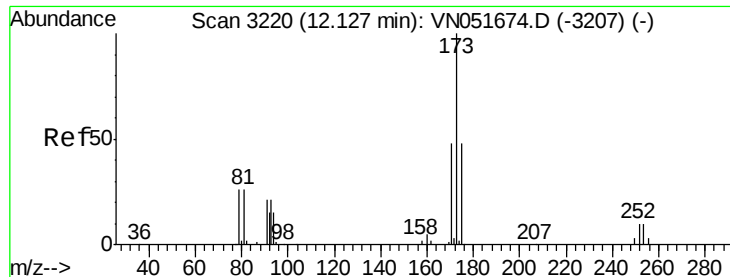
#45
 1,4-Dioxane
 Concen: 2.899 ug/l
 RT: 8.74 min Scan# 2168
 Delta R.T. -0.46 min
 Lab File: VN051683.D
 Acq: 5 Oct 2018 13:38

Tgt Ion: 88 Resp: 145
 Ion Ratio Lower Upper
 88 100
 43 33.1 26.2 39.2
 58 0.0 65.6 98.4#



Abundance Ion 88.00 (87.70 to 88.70): VN
 Ion 43.00 (42.70 to 43.70): VN
 Ion 58.00 (57.70 to 58.70): VN





#56

Bromoform

Concen: 0.305 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051683.D

Acq: 5 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampled :

TRIP-SOIL

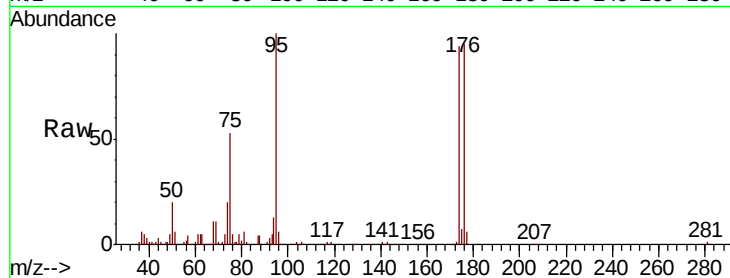
Tot Ion:173 Resp: 1449

Ion Ratio Lower Upper

173 100

175 665.6 35.8 53.8#

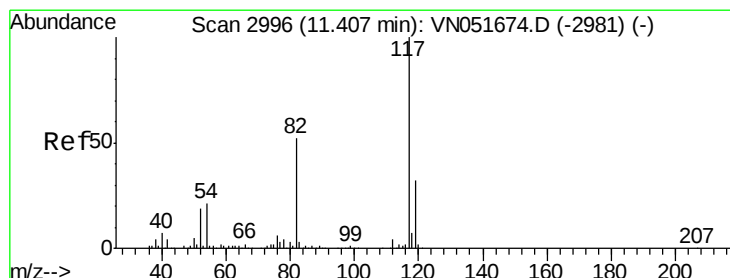
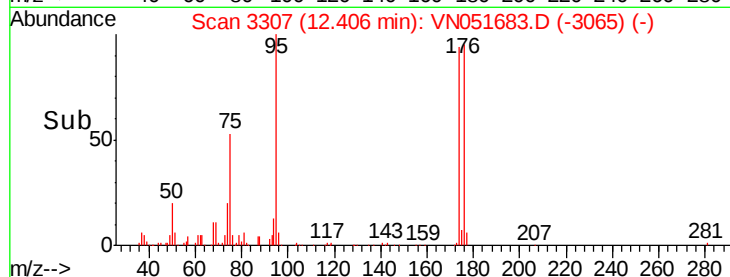
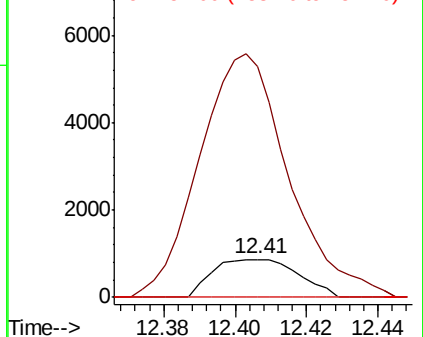
254 0.0 8.6 13.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051683.D

Acq: 5 Oct 2018 13:38

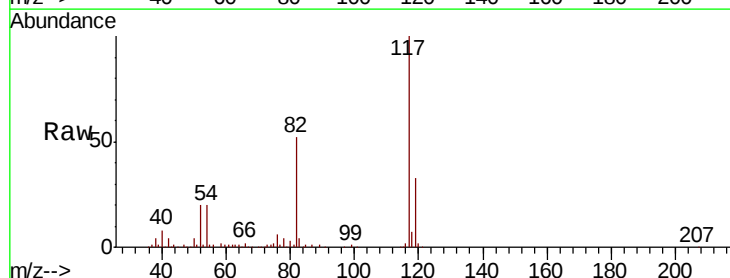
Tgt Ion:117 Resp: 419977

Ion Ratio Lower Upper

117 100

82 52.0 44.1 66.1

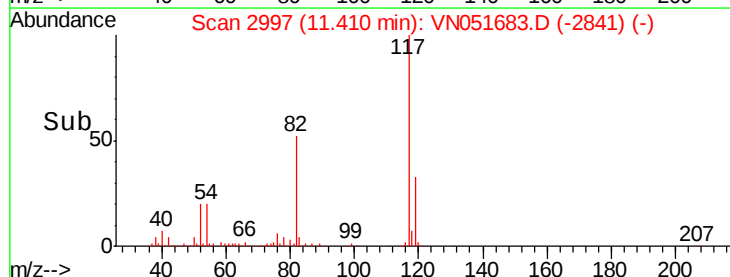
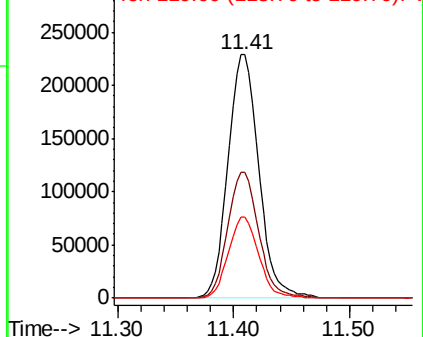
119 32.8 25.8 38.8

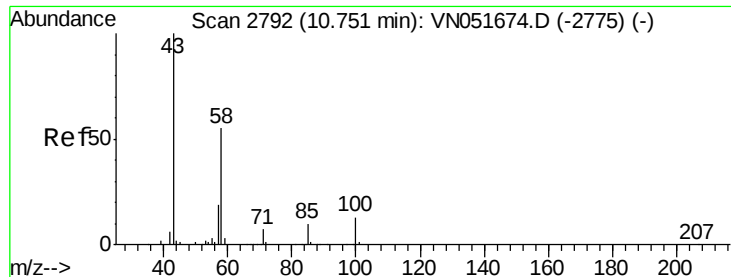


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

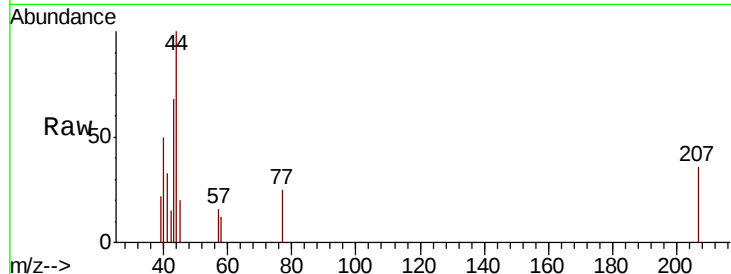




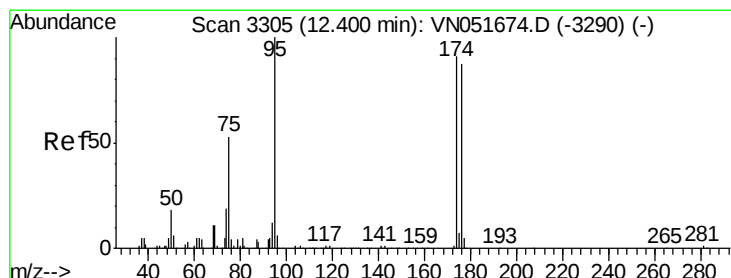
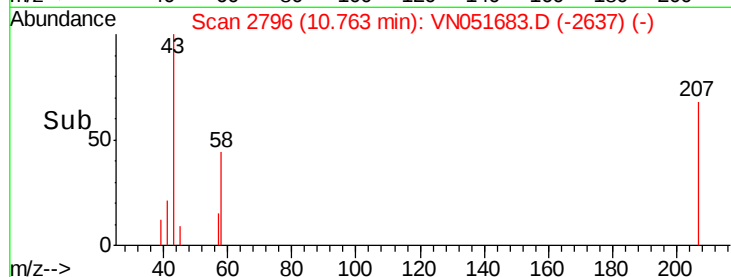
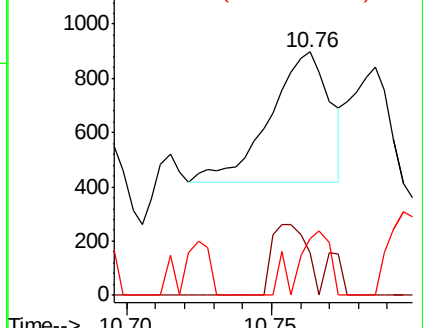
#59
2-Hexanone
Concen: 0.296 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051683.D
Acq: 5 Oct 2018 13:38

Instrument :
MSVOA_N
ClientSampled :
TRIP-SOIL

Tot Ion: 43 Resp: 692
Ion Ratio Lower Upper
43 100
58 8.7 41.3 61.9#
57 22.1 13.4 20.0#

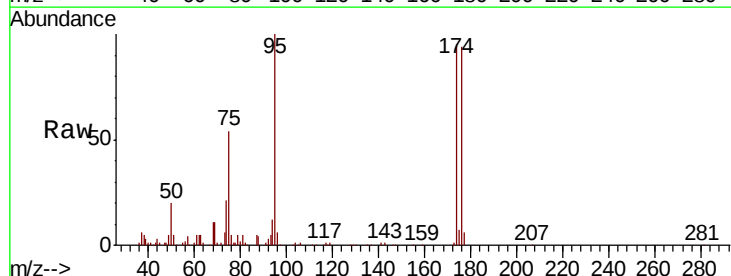


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

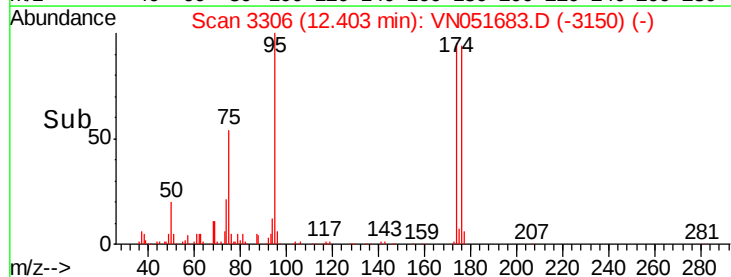
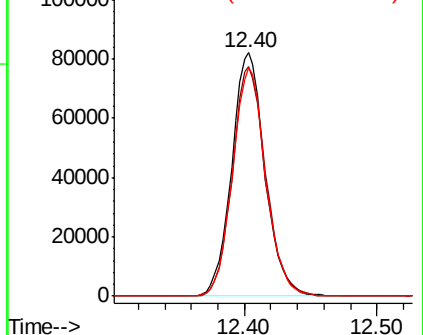


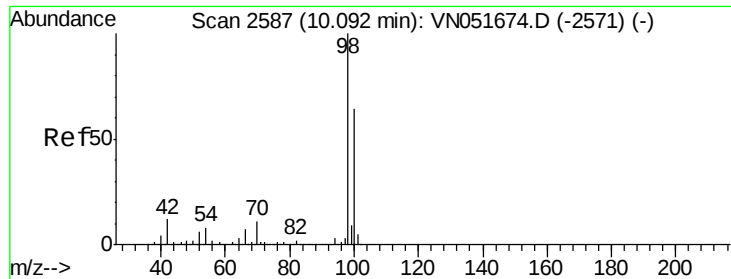
#60
4-Bromofluorobenzene
Concen: 0.296 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051683.D
Acq: 5 Oct 2018 13:38

Tgt Ion: 95 Resp: 141607
Ion Ratio Lower Upper
95 100
174 95.5 73.5 110.3
176 94.0 70.2 105.2



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051683.D

Acq: 5 Oct 2018 13:38

Instrument :

MSVOA_N

ClientSampleId :

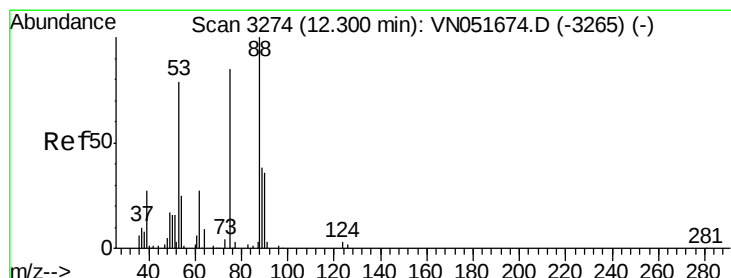
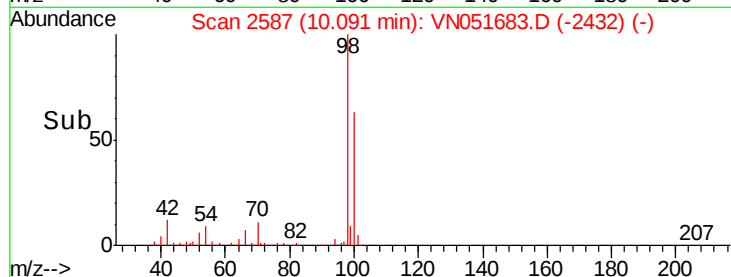
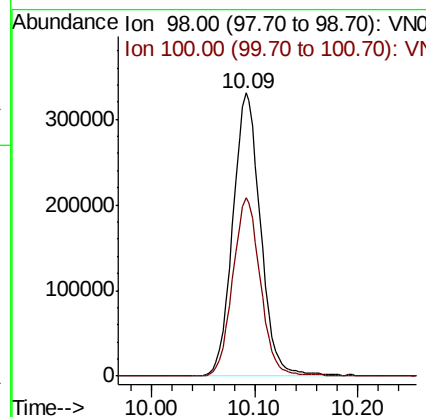
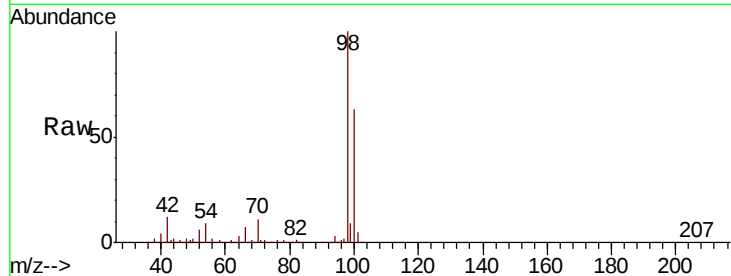
TRIP-SOIL

Tot Ion: 98 Resp: 619959

Ion Ratio Lower Upper

98 100

100 63.0 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 49.753 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051683.D

Acq: 5 Oct 2018 13:38

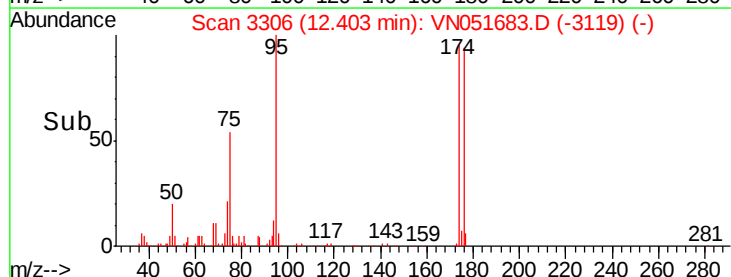
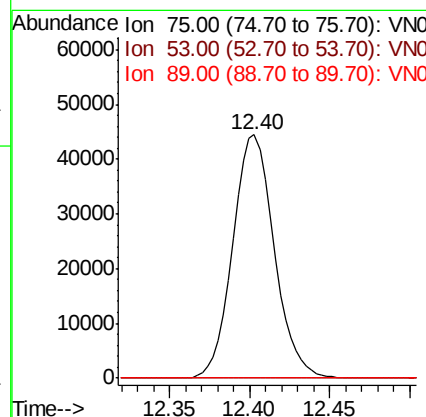
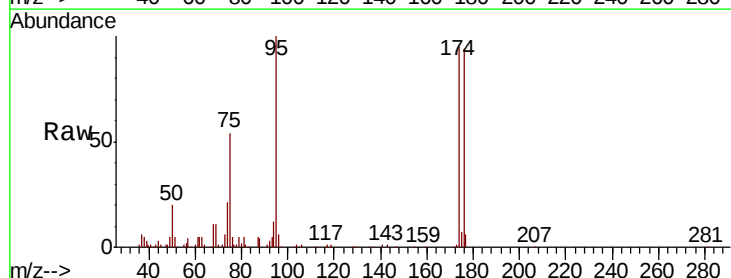
Tgt Ion: 75 Resp: 78394

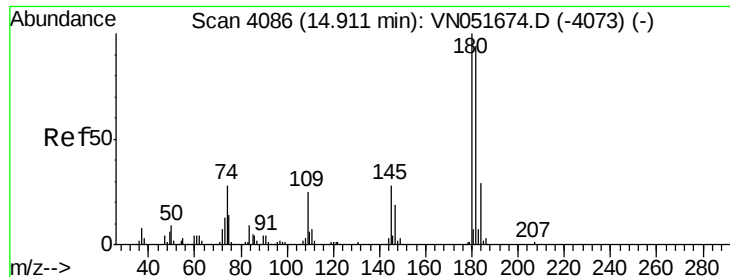
Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

89 0.0 24.6 73.8#

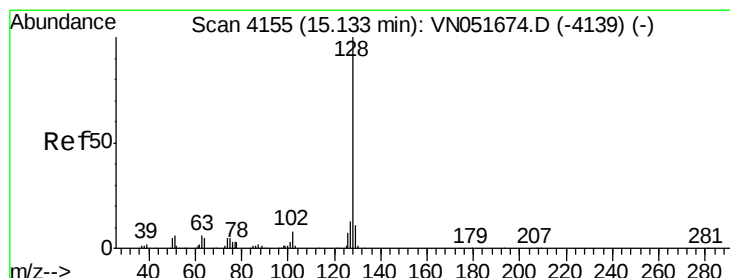
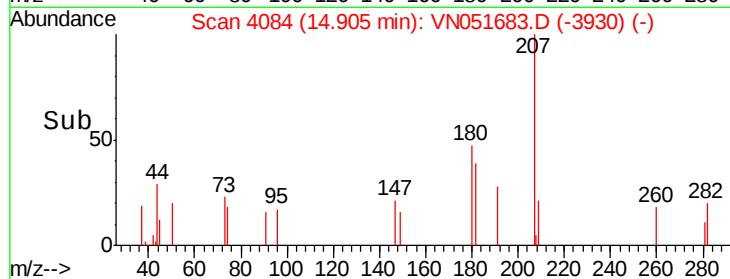
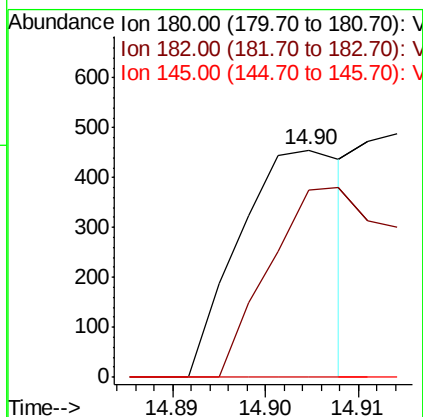
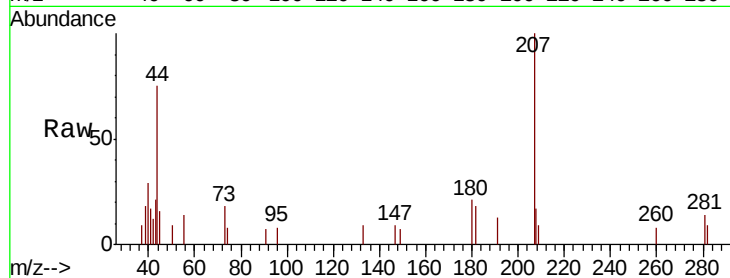




#89
 1,2,4-Trichlorobenzene
 Concen: 6.886 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.01 min
 Lab File: VN051683.D
 Acq: 5 Oct 2018 13:38

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-SOIL

Tot Ion:180 Resp: 356
 Ion Ratio Lower Upper
 180 100
 182 96.1 77.7 116.5
 145 0.0 23.4 35.2#



#91
 Naphthalene
 Concen: 0.295 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051683.D
 Acq: 5 Oct 2018 13:38

Tgt Ion:128 Resp: 2974
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.1 15.1#
 129 0.0 8.4 12.6#

