

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051682.D
 Acq On : 5 Oct 2018 13:13
 Operator : MD\SY
 Sample : J5237-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 FBSOIL

Quant Time: Oct 05 14:54:27 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	86251	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	454506	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	362680	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	174395	29.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.10%
60) 4-Bromofluorobenzene	12.40	95	125488	22.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	75.60%
63) Toluene-d8	10.09	98	530735	32.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	109.87%

Target Compounds

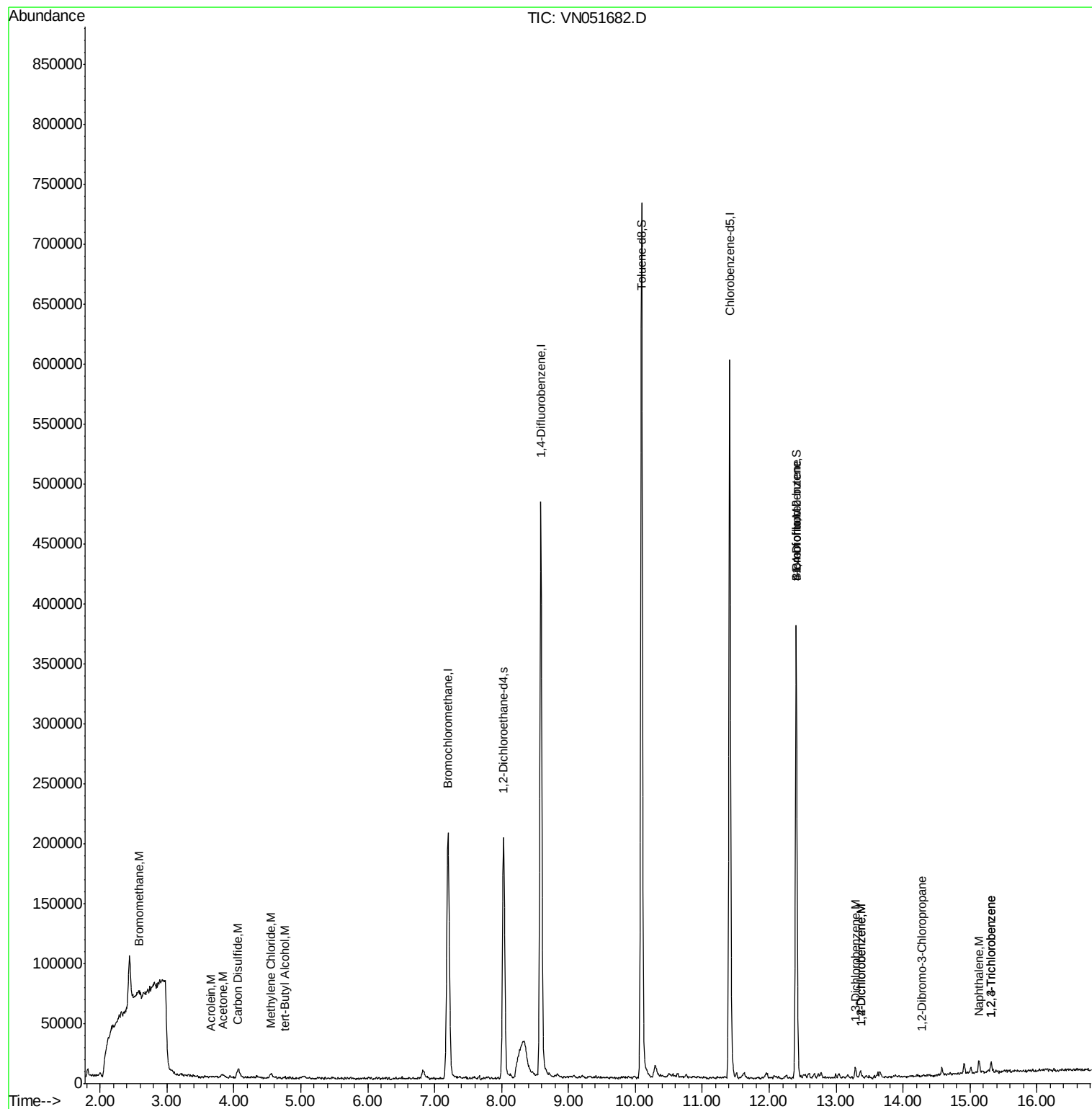
					Ovalue
5) Bromomethane	2.57	94	2726	0.467 ug/l	86
13) Acrolein	3.65	56	211	0.903 ug/l	97
15) Acetone	3.82	58	525	1.693 ug/l #	55
16) Carbon Disulfide	4.05	76	3723	0.323 ug/l #	89
18) Methylene Chloride	4.55	84	1202	0.265 ug/l	87
23) tert-Butyl Alcohol	4.77	59	326	0.973 ug/l #	100
56) Bromoform	12.41	173	1203	0.293 ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	67927	49.920 ug/l #	12
83) 1,3-Dichlorobenzene	13.28	146	1943	0.206 ug/l	93
84) 1,4-Dichlorobenzene	13.36	146	2428	0.270 ug/l	93
87) 1,2-Dichlorobenzene	13.36	146	2428	0.263 ug/l	89
88) 1,2-Dibromo-3-Chloropropan	14.27	75	233	0.309 ug/l #	27
89) 1,2,4-Trichlorobenzene	15.32	180	2748	7.320 ug/l	91
91) Naphthalene	15.13	128	8094	0.928 ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	2748	0.690 ug/l	91

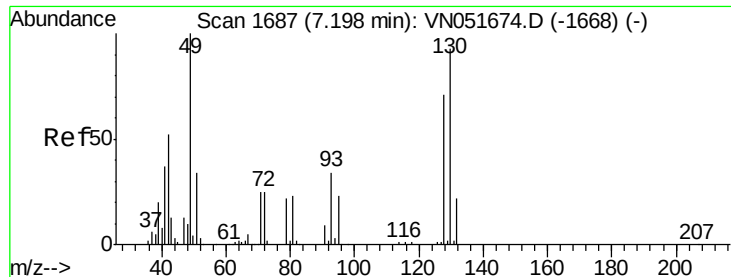
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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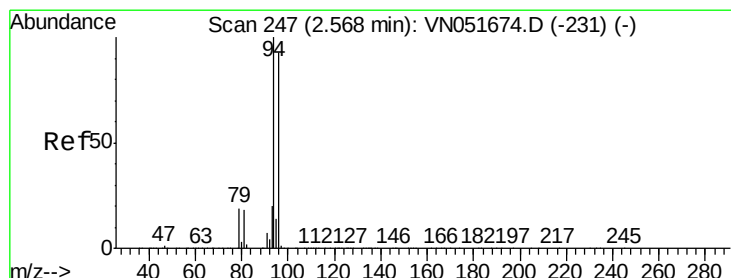
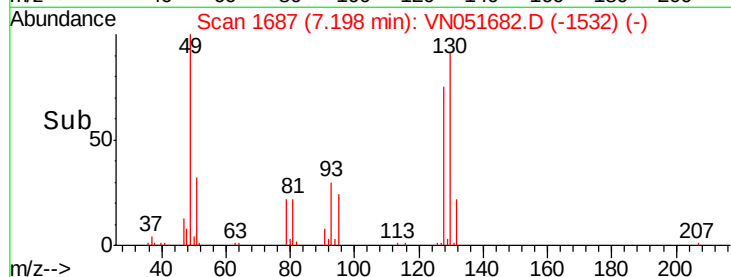
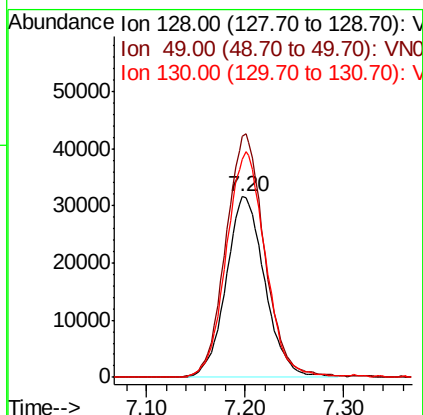
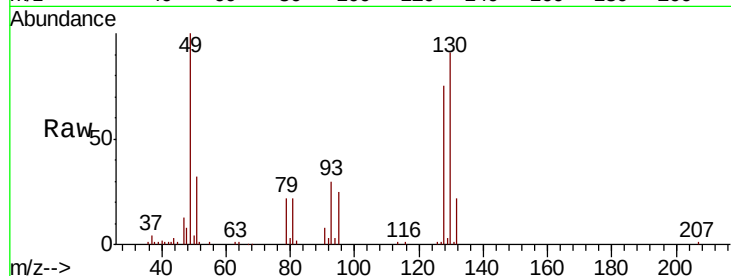




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN051682.D
Acq: 5 Oct 2018 13:13

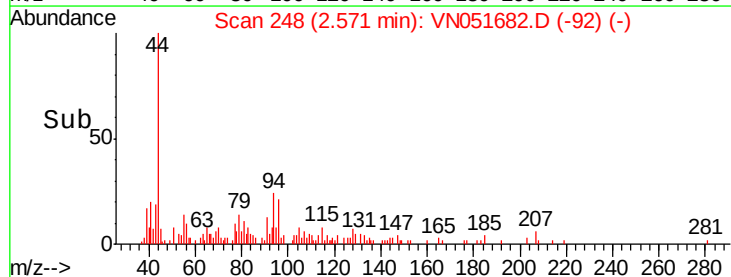
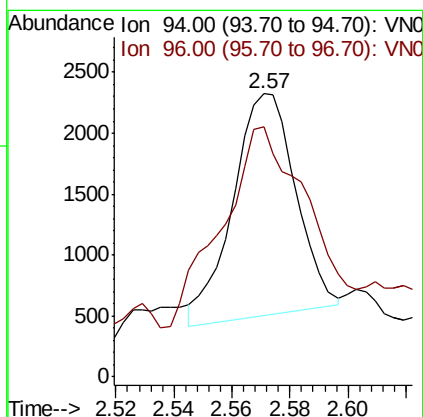
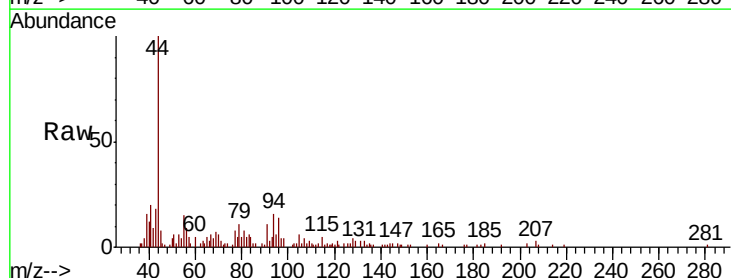
Instrument :
MSVOA_N
ClientSampled :
FBSOIL

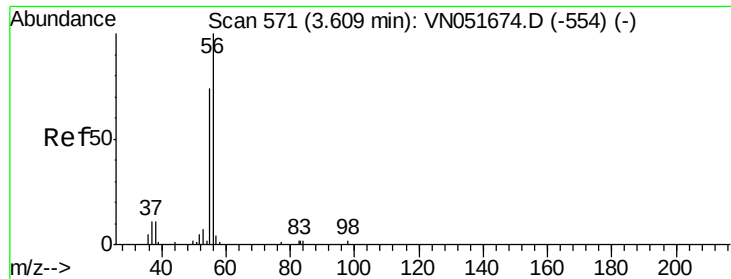
Tot Ion:128 Resp: 86251
Ion Ratio Lower Upper
128 100
49 134.6 0.0 403.3
130 126.0 0.0 326.0



#5
Bromomethane
Concen: 0.467 ug/l
RT: 2.57 min Scan# 248
Delta R.T. 0.00 min
Lab File: VN051682.D
Acq: 5 Oct 2018 13:13

Tgt Ion: 94 Resp: 2726
Ion Ratio Lower Upper
94 100
96 70.0 66.4 99.6





#13

Acrolein

Concen: 0.903 ug/l

RT: 3.65 min Scan# 584

Delta R.T. 0.04 min

Lab File: VN051682.D

Acq: 5 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

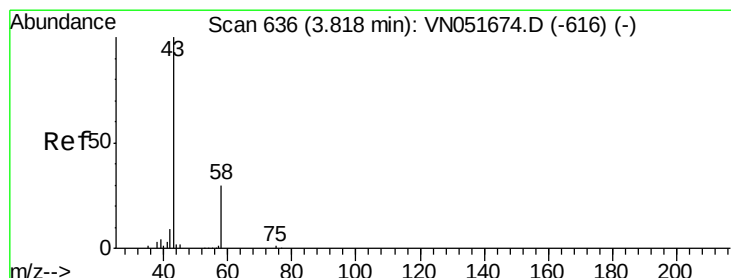
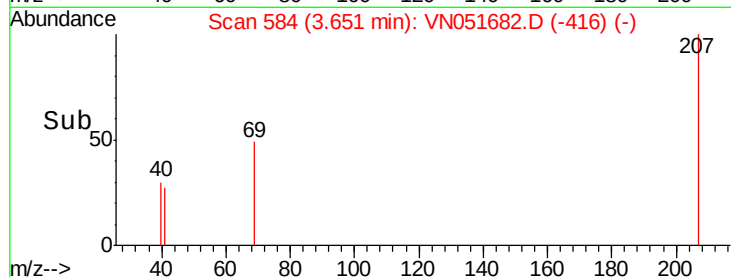
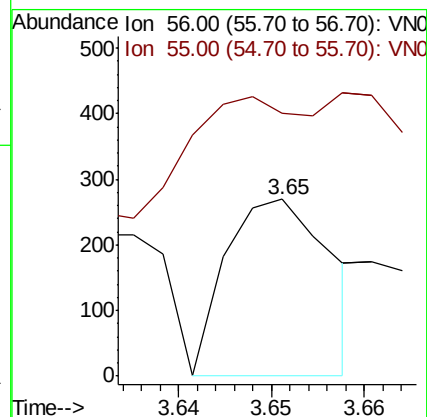
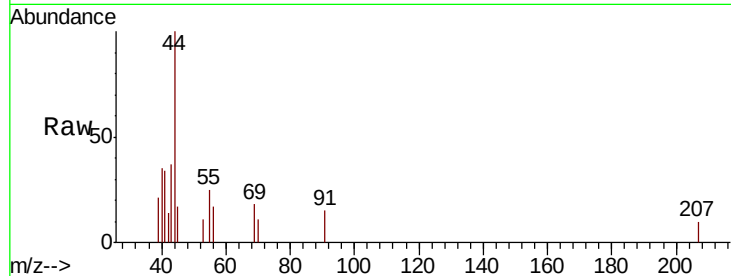
FBSOIL

Tot Ion: 56 Resp: 211

Ion Ratio Lower Upper

56 100

55 77.3 64.0 96.0



#15

Acetone

Concen: 1.693 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051682.D

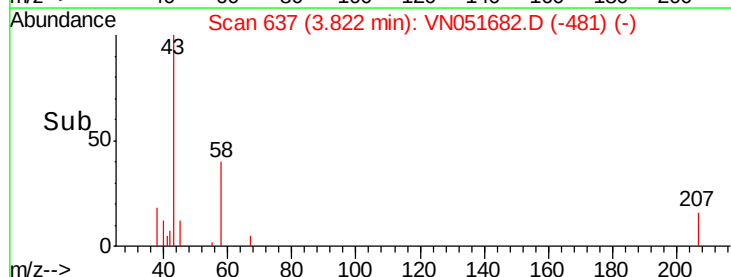
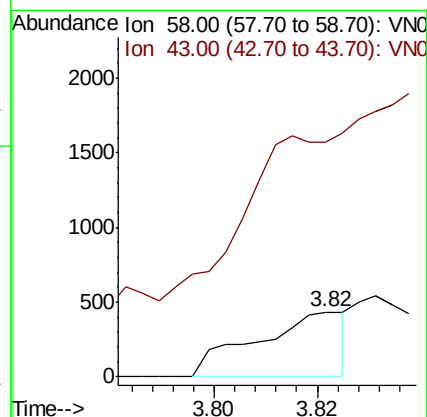
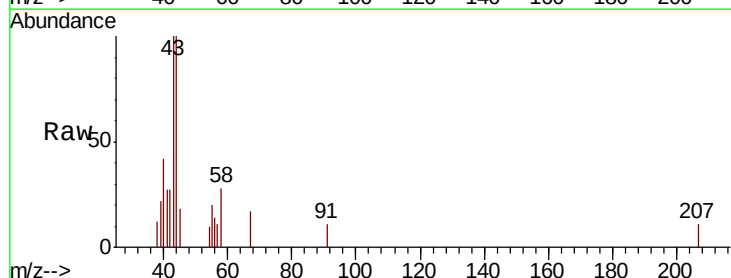
Acq: 5 Oct 2018 13:13

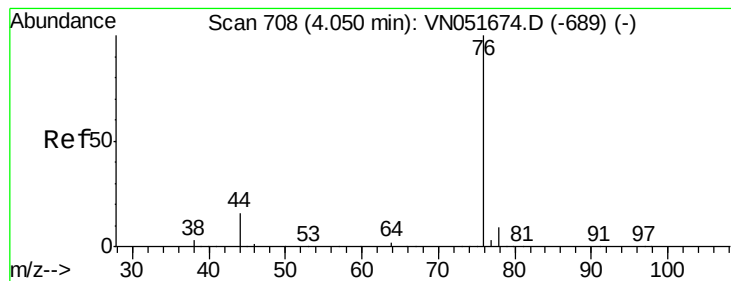
Tgt Ion: 58 Resp: 525

Ion Ratio Lower Upper

58 100

43 203.7 232.2 348.2#





#16

Carbon Disulfide

Concen: 0.323 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051682.D

Acq: 5 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

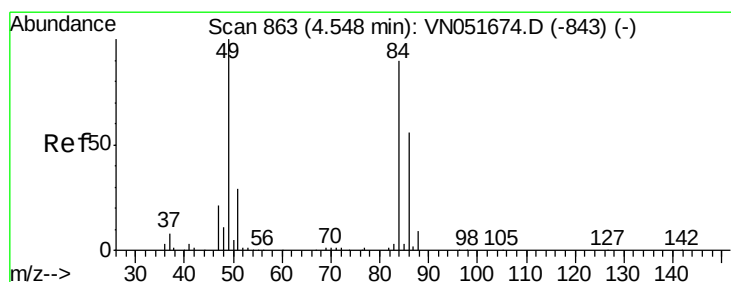
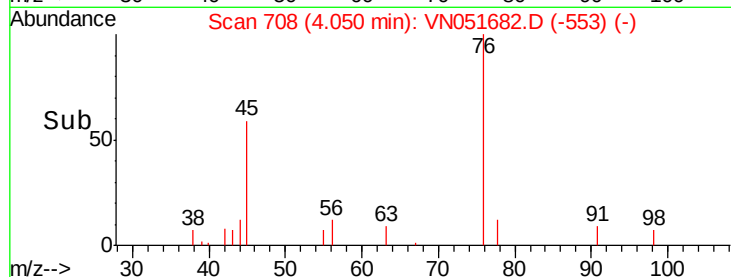
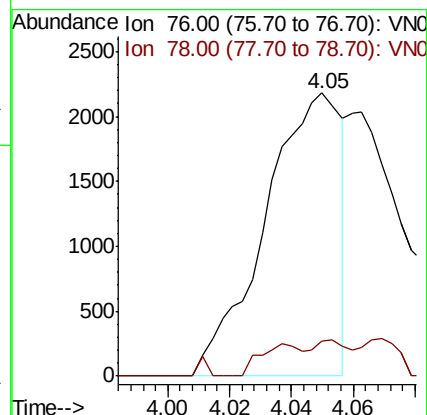
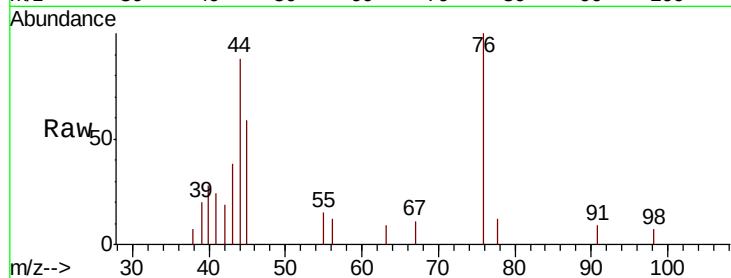
FBSOIL

Tot Ion: 76 Resp: 3723

Ion Ratio Lower Upper

76 100

78 12.4 6.7 10.1#



#18

Methylene Chloride

Concen: 0.265 ug/l

RT: 4.55 min Scan# 862

Delta R.T. -0.00 min

Lab File: VN051682.D

Acq: 5 Oct 2018 13:13

Tgt Ion: 84 Resp: 1202

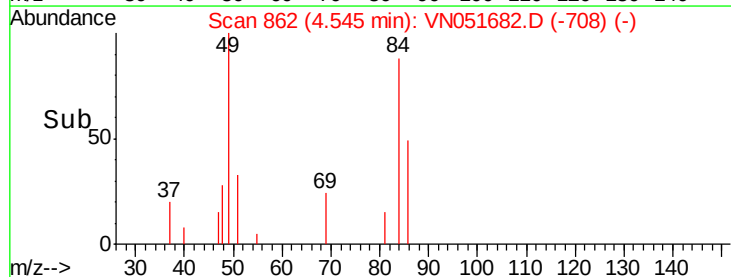
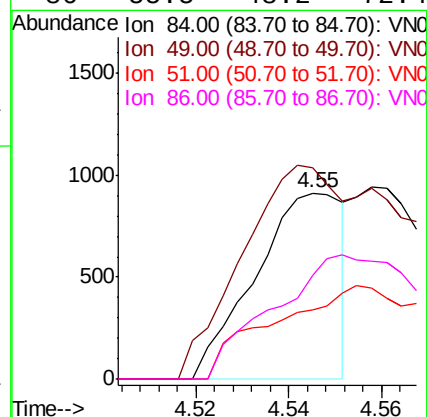
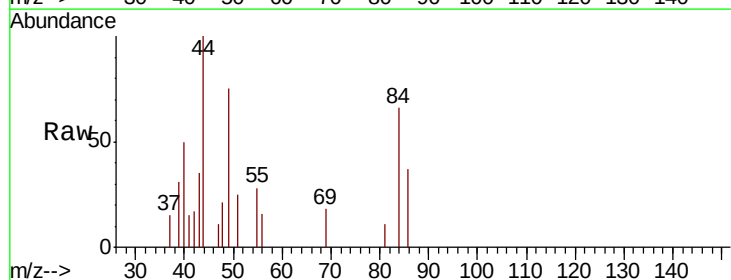
Ion Ratio Lower Upper

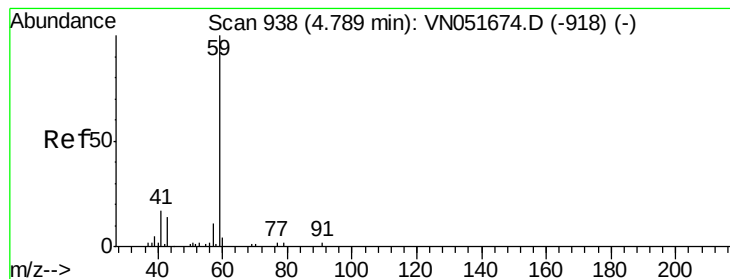
84 100

49 92.3 91.6 137.4

51 37.1 29.8 44.6

86 55.5 48.2 72.4





#23

tert-Butyl Alcohol

Concen: 0.973 ug/l

RT: 4.77 min Scan# 931

Delta R.T. -0.02 min

Lab File: VN051682.D

Acq: 5 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

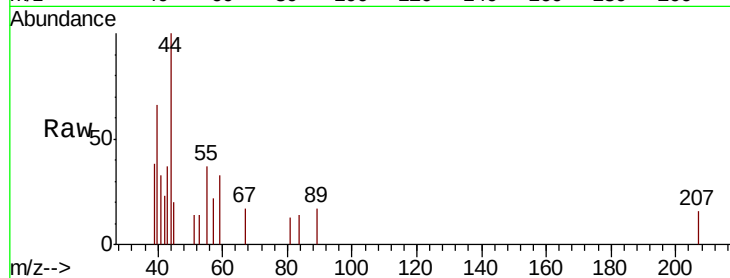
FBSOIL

Tot Ion: 59 Resp: 326

Ion Ratio Lower Upper

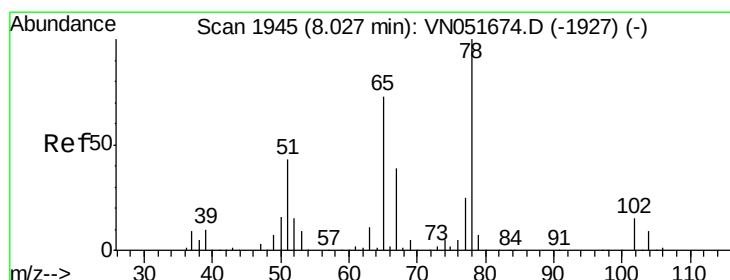
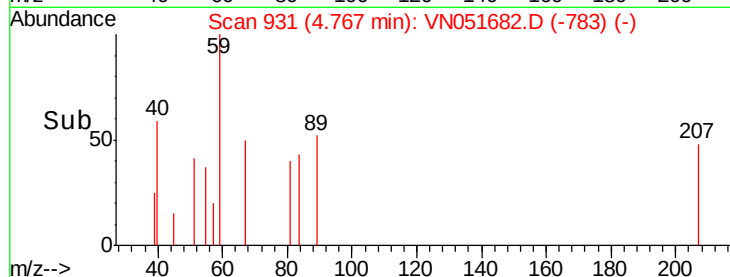
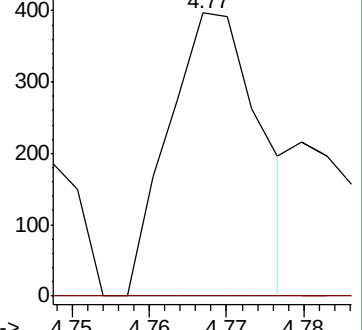
59 100

52 20.9 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: VN051682.D

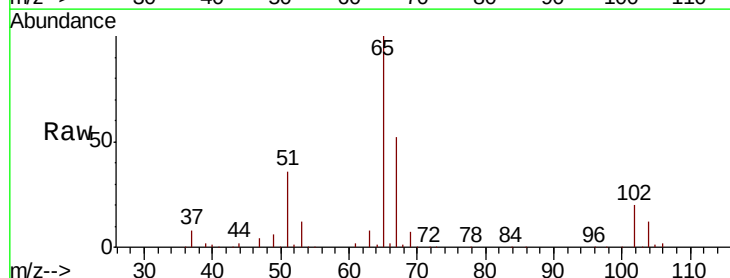
Acq: 5 Oct 2018 13:13

Tgt Ion: 65 Resp: 174395

Ion Ratio Lower Upper

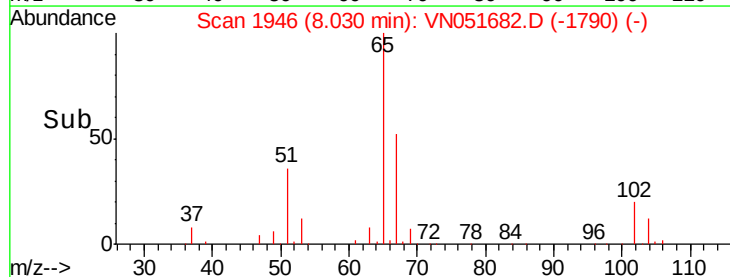
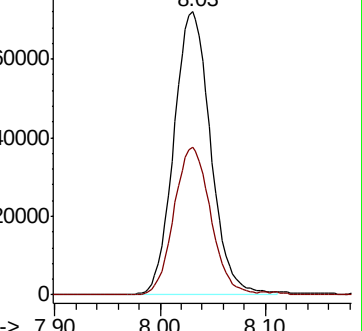
65 100

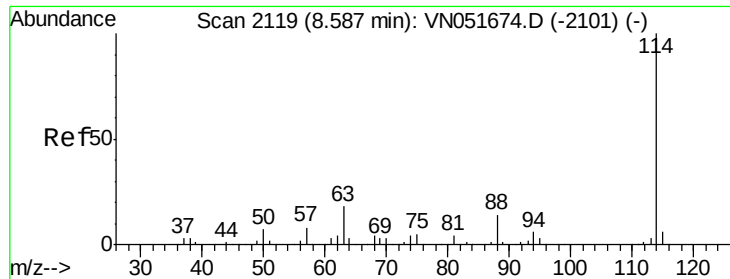
67 51.6 41.8 62.8



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: VN051682.D

Acq: 5 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

FBSOIL

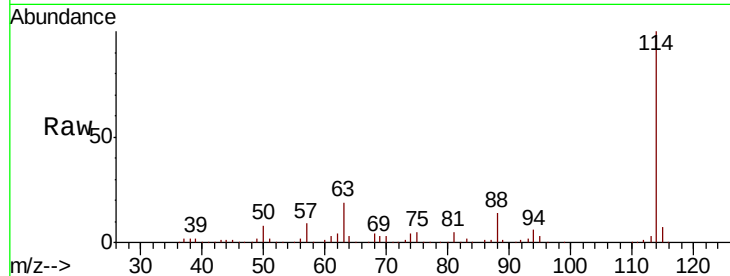
Tot Ion:114 Resp: 454506

Ion Ratio Lower Upper

114 100

63 18.7 16.2 24.2

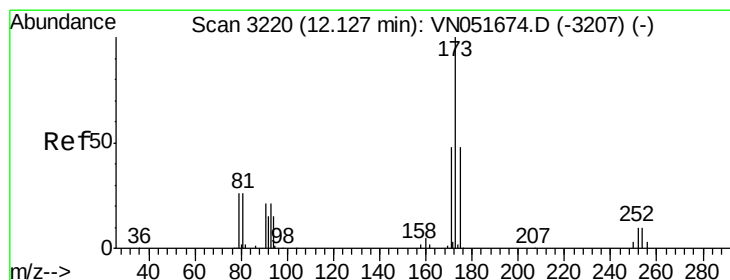
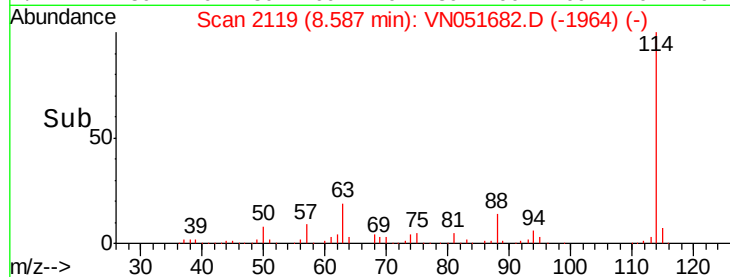
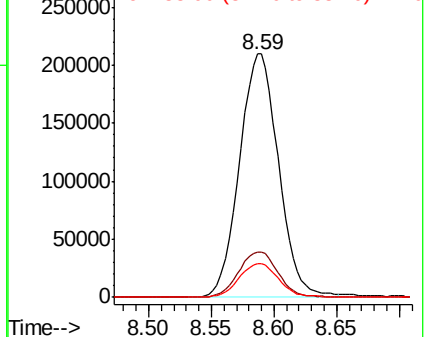
88 14.1 12.2 18.4



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



#56

Bromoform

Concen: 0.293 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051682.D

Acq: 5 Oct 2018 13:13

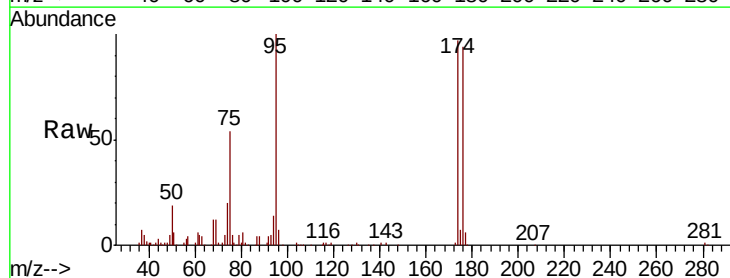
Tgt Ion:173 Resp: 1203

Ion Ratio Lower Upper

173 100

175 718.5 35.8 53.8#

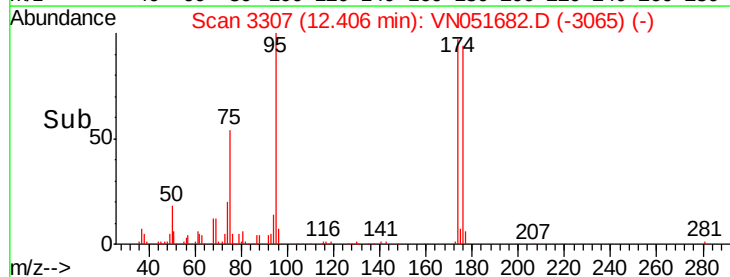
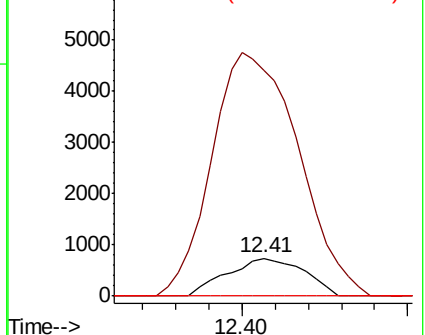
254 0.0 8.6 13.0#

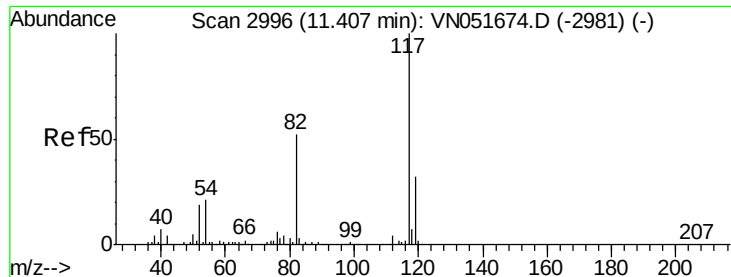


Abundance Ion 173.00 (172.70 to 173.70): V

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: VN051682.D

Acq: 5 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

FBSOIL

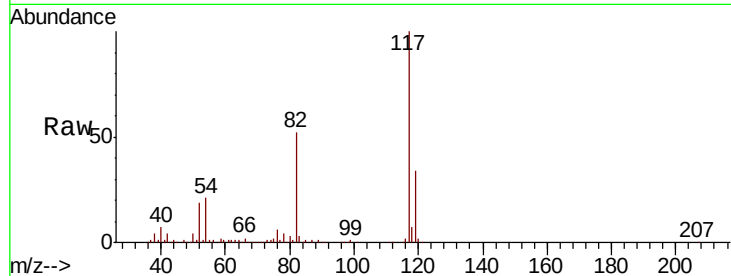
Tot Ion:117 Resp: 362680

Ion Ratio Lower Upper

117 100

82 52.0 44.1 66.1

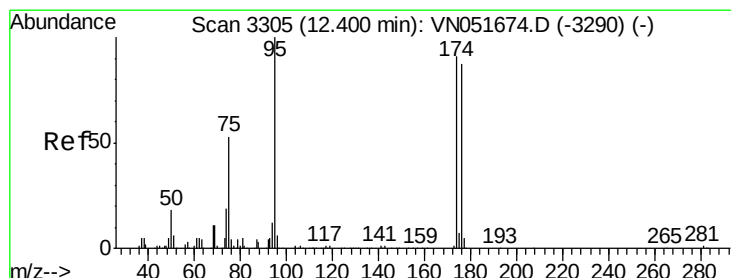
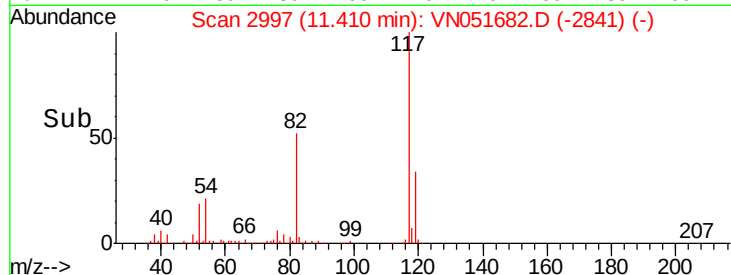
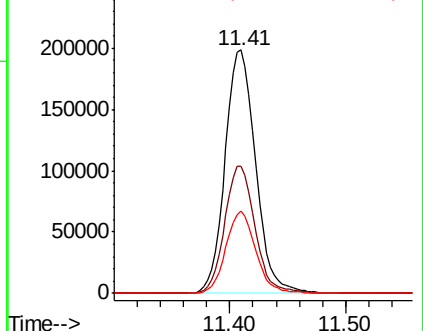
119 32.9 25.8 38.8



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



#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051682.D

Acq: 5 Oct 2018 13:13

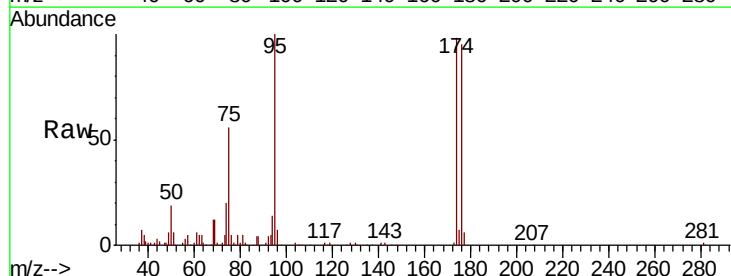
Tgt Ion: 95 Resp: 125488

Ion Ratio Lower Upper

95 100

174 94.3 73.5 110.3

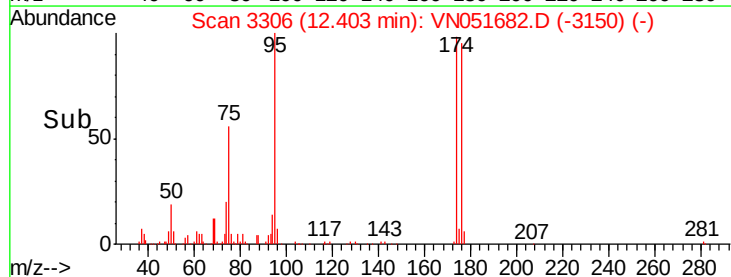
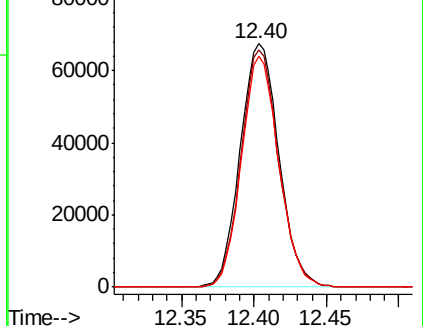
176 91.5 70.2 105.2

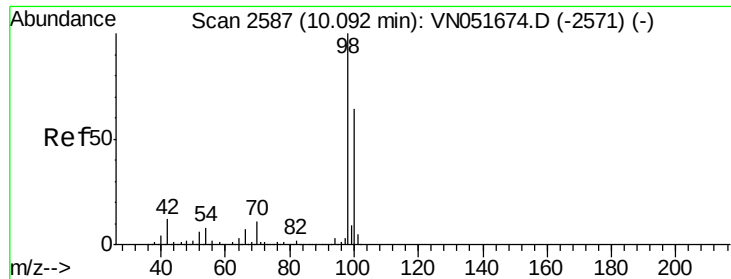


Abundance Ion 95.00 (94.70 to 95.70): V

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: VN051682.D

Acq: 5 Oct 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

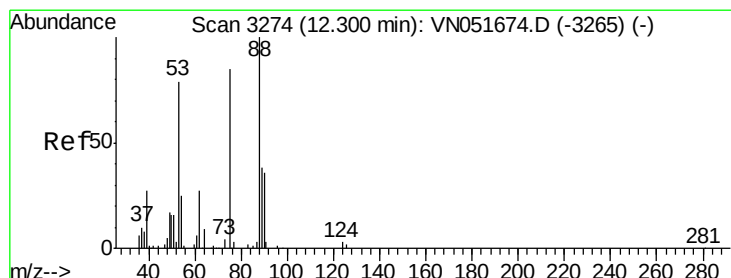
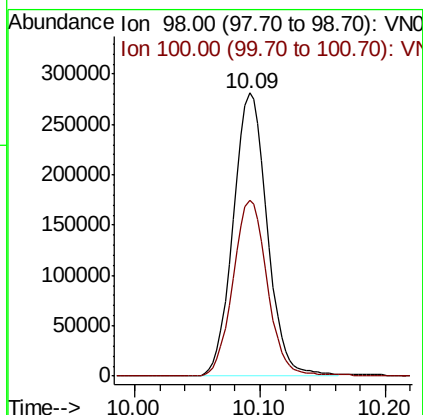
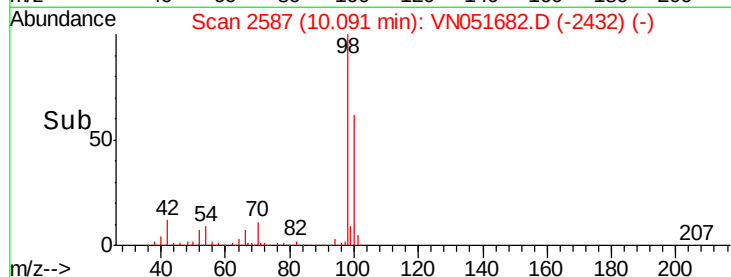
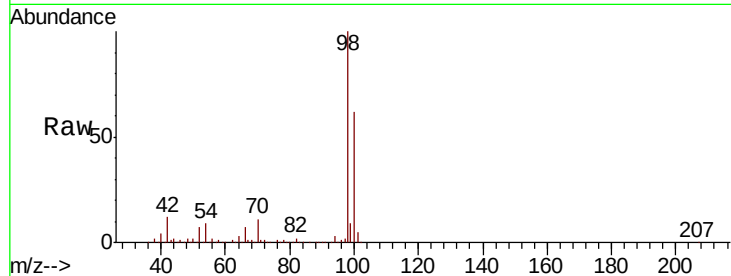
FBSOIL

Tot Ion: 98 Resp: 530735

Ion Ratio Lower Upper

98 100

100 62.4 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 49.920 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051682.D

Acq: 5 Oct 2018 13:13

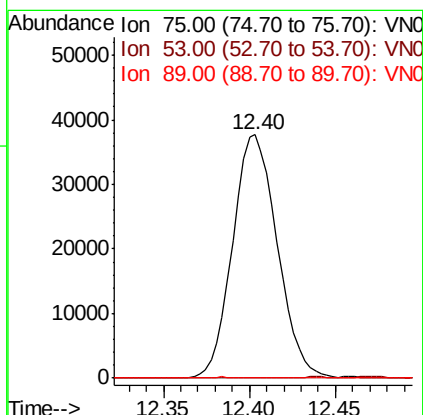
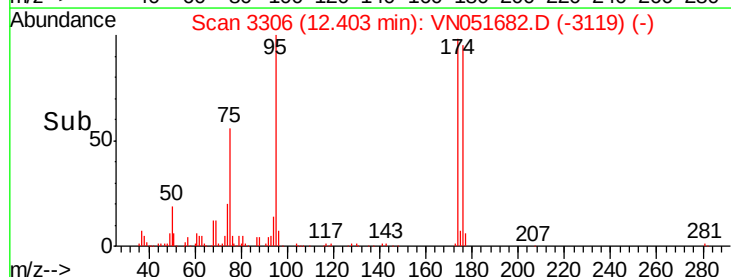
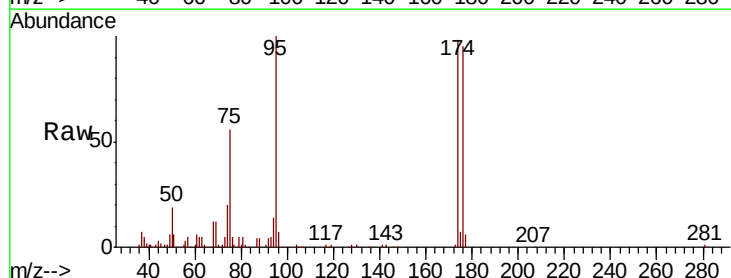
Tgt Ion: 75 Resp: 67927

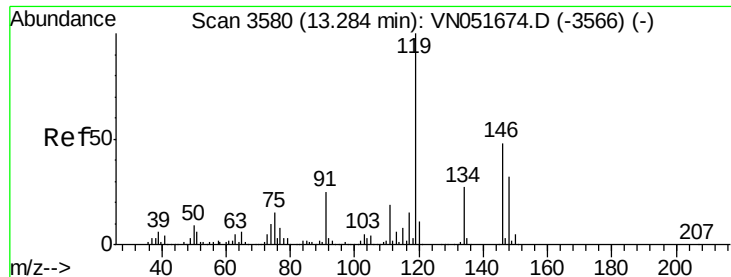
Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

89 0.0 24.6 73.8#

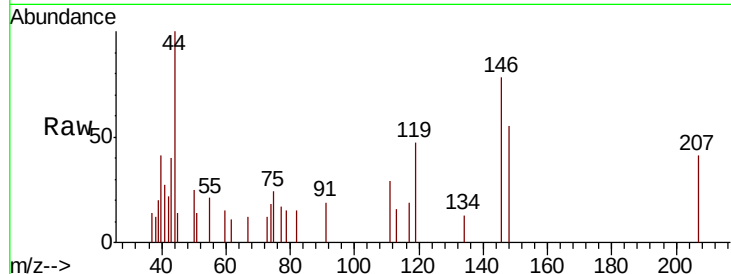




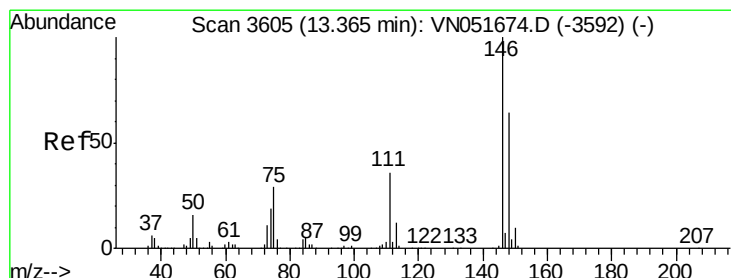
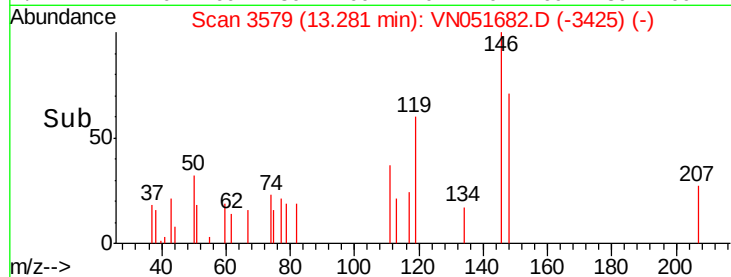
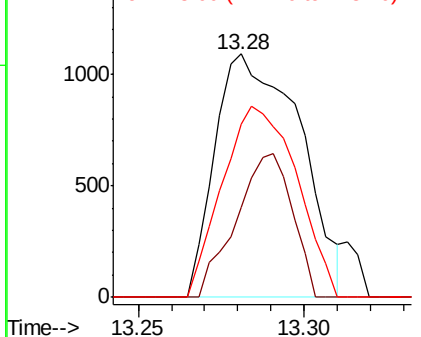
#83
 1,3-Dichlorobenzene
 Concen: 0.206 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN051682.D
 Acq: 5 Oct 2018 13:13

Instrument :
 MSVOA_N
 ClientSampled :
 FBSOIL

Tot Ion:146 Resp: 1943
 Ion Ratio Lower Upper
 146 100
 111 39.0 18.1 54.3
 148 68.9 31.3 93.8

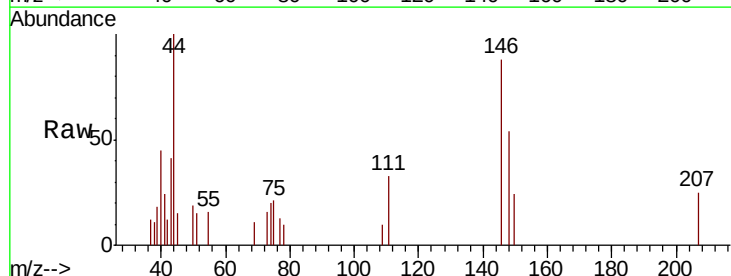


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

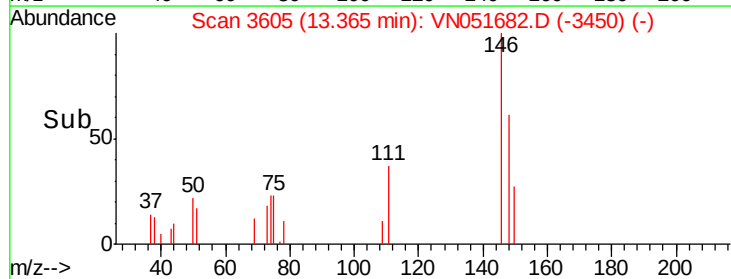
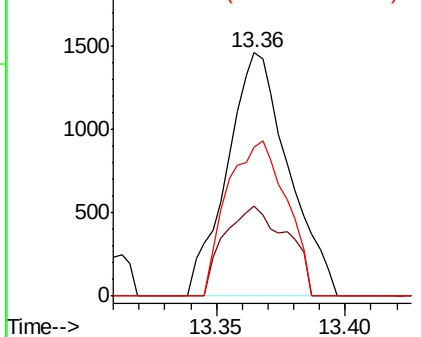


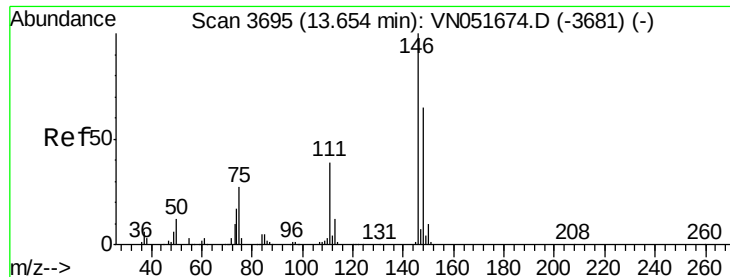
#84
 1,4-Dichlorobenzene
 Concen: 0.270 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN051682.D
 Acq: 5 Oct 2018 13:13

Tgt Ion:146 Resp: 2428
 Ion Ratio Lower Upper
 146 100
 111 29.7 17.4 52.2
 148 61.3 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

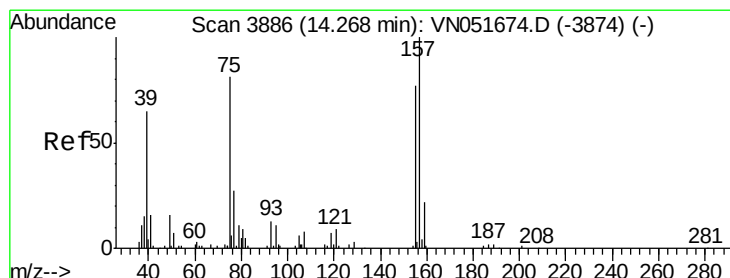
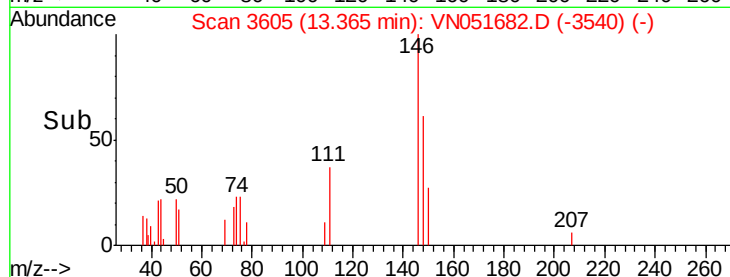
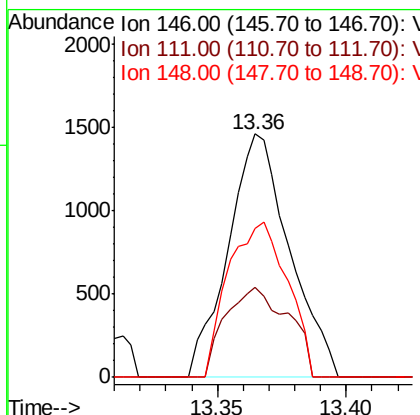
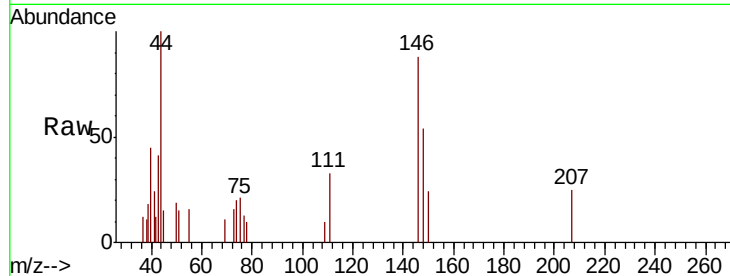




#87
 1,2-Dichlorobenzene
 Concen: 0.263 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.29 min
 Lab File: VN051682.D
 Acq: 5 Oct 2018 13:13

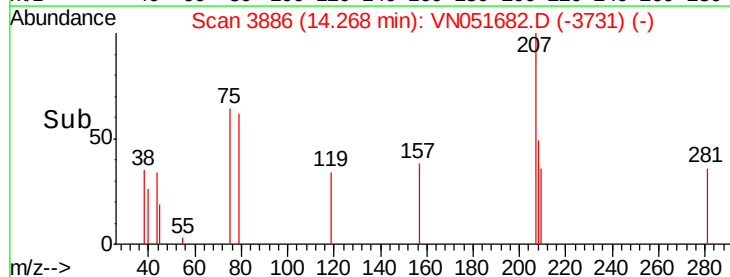
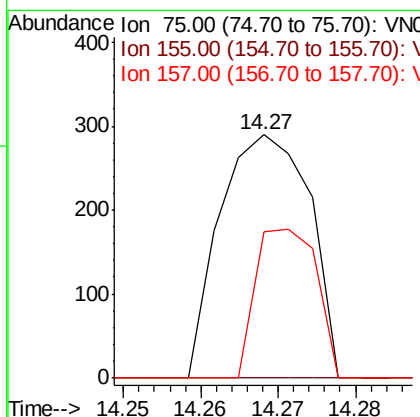
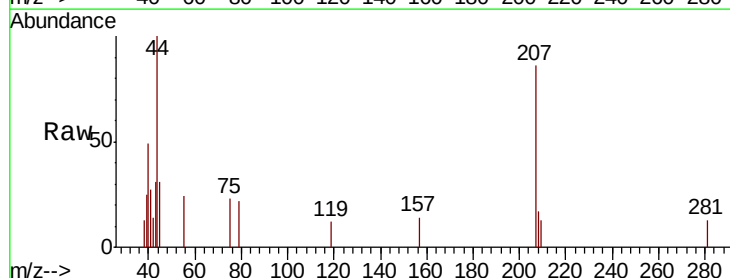
Instrument :
 MSVOA_N
 ClientSampleId :
 FBSOIL

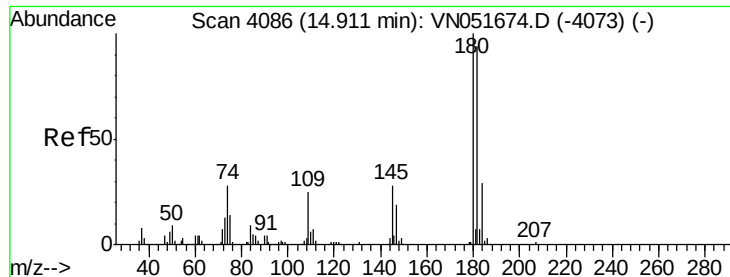
Tot Ion:146 Resp: 2428
 Ion Ratio Lower Upper
 146 100
 111 29.7 20.8 62.2
 148 61.3 33.2 99.6



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.309 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN051682.D
 Acq: 5 Oct 2018 13:13

Tgt Ion: 75 Resp: 233
 Ion Ratio Lower Upper
 75 100
 155 0.0 57.0 85.6#
 157 41.6 87.4 131.0#

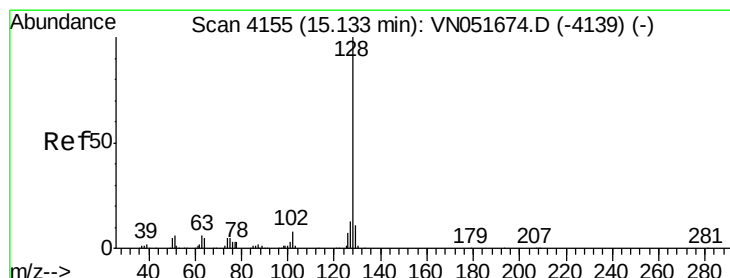
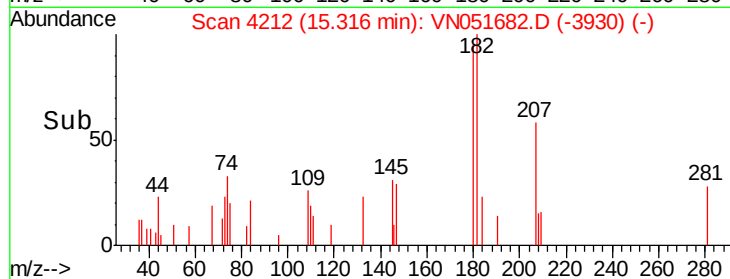
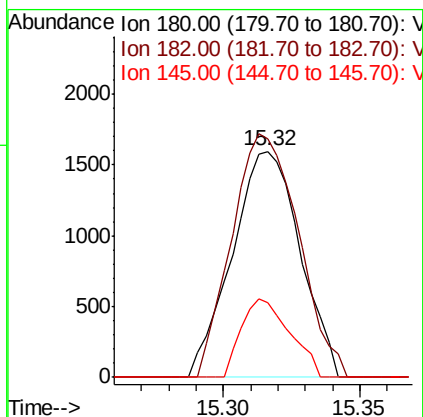
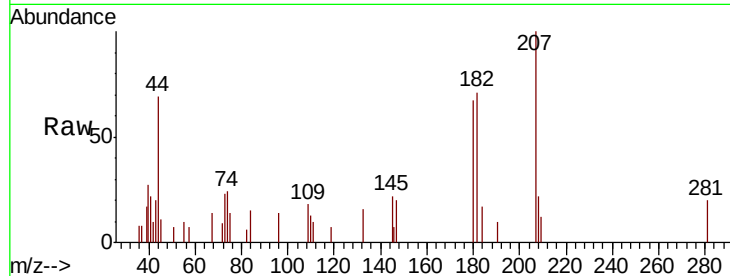




#89
 1,2,4-Trichlorobenzene
 Concen: 7.320 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.41 min
 Lab File: VN051682.D
 Acq: 5 Oct 2018 13:13

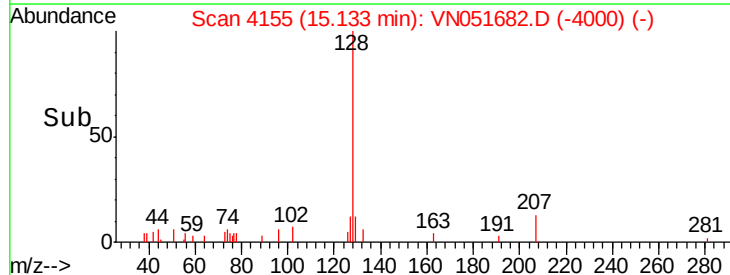
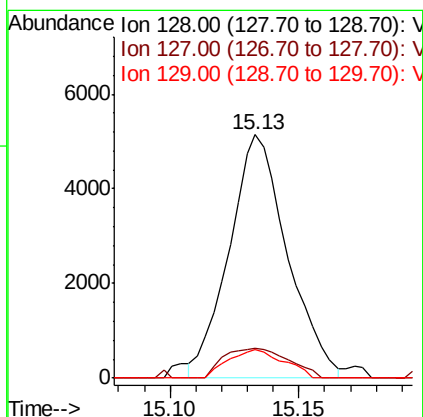
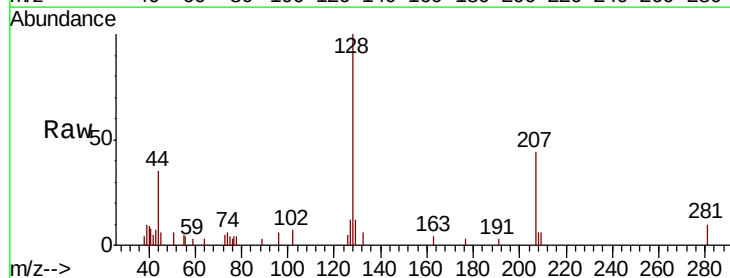
Instrument :
 MSVOA_N
 ClientSampled :
 FBSOIL

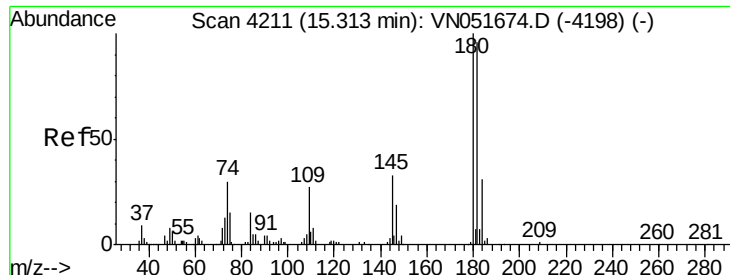
Tot Ion:180 Resp: 2748
 Ion Ratio Lower Upper
 180 100
 182 106.5 77.7 116.5
 145 24.9 23.4 35.2



#91
 Naphthalene
 Concen: 0.928 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051682.D
 Acq: 5 Oct 2018 13:13

Tgt Ion:128 Resp: 8094
 Ion Ratio Lower Upper
 128 100
 127 13.7 10.1 15.1
 129 11.1 8.4 12.6





#92
 1,2,3-Trichlorobenzene
 Concen: 0.690 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051682.D
 Acq: 5 Oct 2018 13:13

Instrument :
 MSVOA_N
 ClientSampleId :
 FBSOIL

Tot Ion	Ratio	Lower	Upper
180	100		
182	106.5	0.0	198.0
145	24.9	0.0	36.8

