

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091018\
 Data File : VN051075.D
 Acq On : 10 Sep 2018 14:07
 Operator : MD\SY
 Sample : J4832-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE BLANK-SOILREF-6

Quant Time: Sep 11 03:18:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	697375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1040015	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	880065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	261885	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	399470	51.47	ug/l	0.00
Spiked Amount						
			Recovery	=	102.94%	
35) Dibromofluoromethane	7.59	113	401440	51.37	ug/l	0.00
Spiked Amount						
			Recovery	=	102.74%	
50) Toluene-d8	10.09	98	1452136	48.97	ug/l	0.00
Spiked Amount						
			Recovery	=	97.94%	
62) 4-Bromofluorobenzene	12.40	95	377318	38.46	ug/l	0.00
Spiked Amount						
			Recovery	=	76.92%	

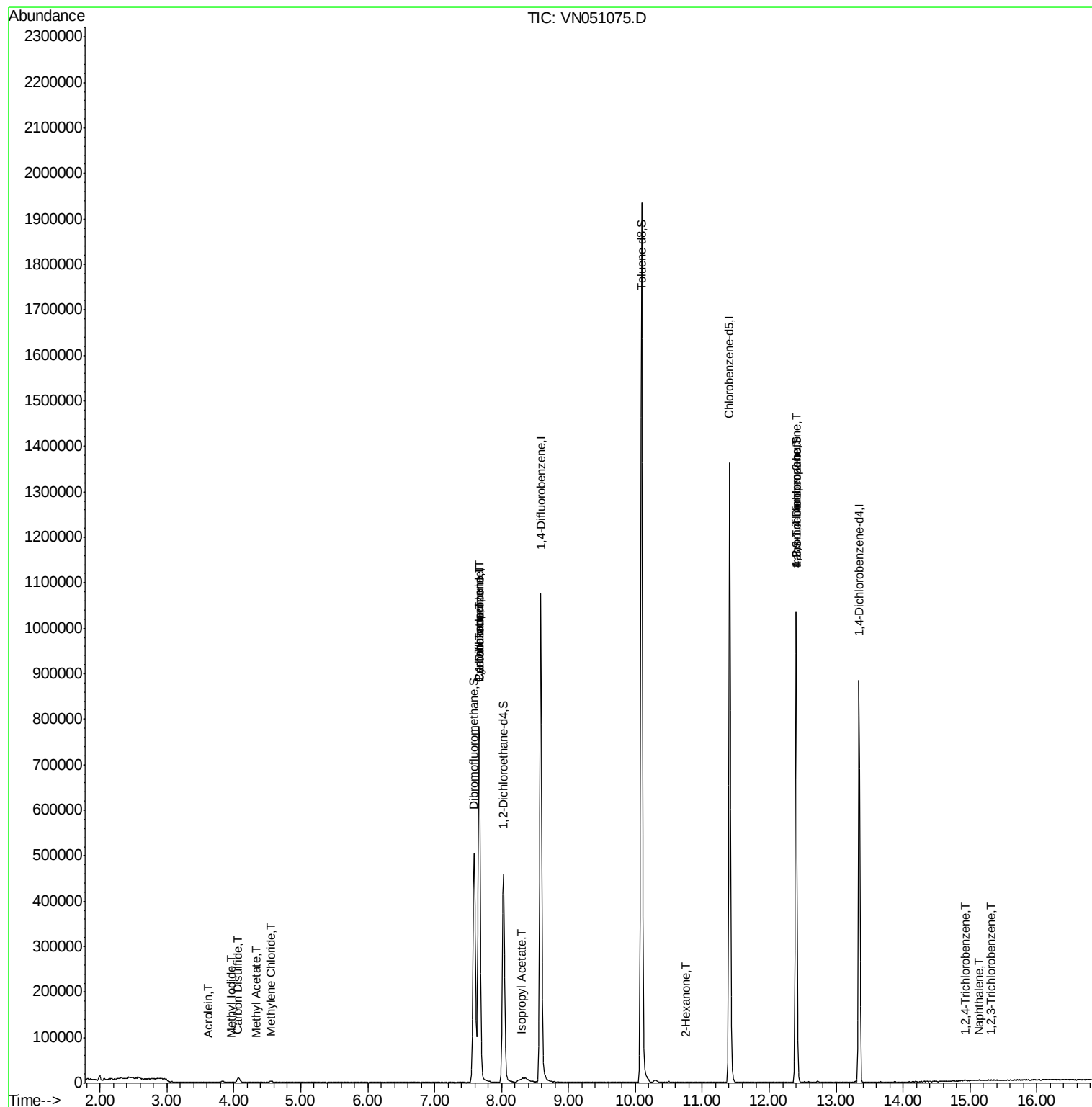
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2905	Below Cal		90
5) Bromomethane	2.57	94	2548	Below Cal		83
10) Methyl Iodide	3.95	142	1184	5.77	ug/l #	69
13) Acrolein	3.62	56	237	24.58	ug/l #	64
16) Acetone	3.82	43	5772	Below Cal		97
17) Carbon Disulfide	4.05	76	4973	0.34	ug/l #	94
18) Methyl Acetate	4.33	43	1617	0.26	ug/l #	76
20) Methylene Chloride	4.55	84	3296	0.38	ug/l	91
31) Cyclohexane	7.67	56	11188	0.65	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	44853	3.93	ug/l #	48
38) Carbon Tetrachloride	7.66	117	59713	5.31	ug/l #	16
43) Isopropyl Acetate	8.29	43	7389	0.63	ug/l #	50
59) 2-Hexanone	10.75	43	1502	0.34	ug/l	64
75) 1,1,2,2-Tetrachloroethane	12.41	83	68	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	171901	42.10	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171901	124.66	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	804	4.14	ug/l #	44
94) Hexachlorobutadiene	15.01	225	306	Below Cal	#	66
95) Naphthalene	15.13	128	1606	5.49	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	671	3.09	ug/l #	75

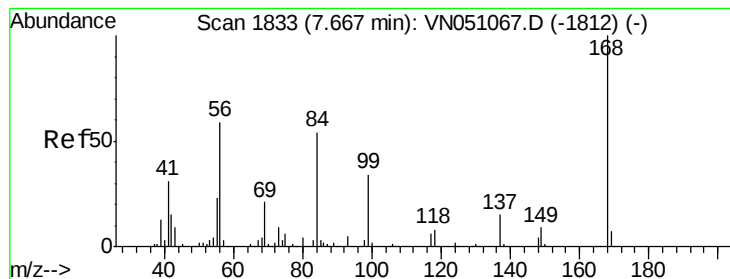
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

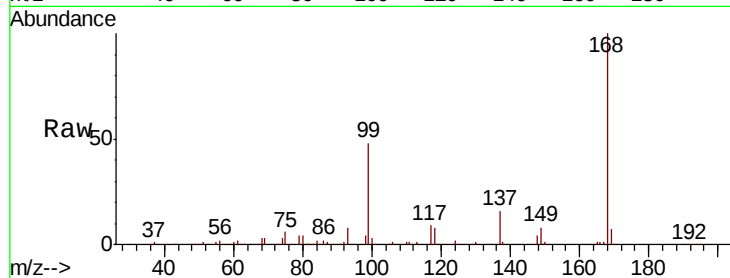
STORAGEBLANK-SOILREF-6

Tot Ion:168 Resp: 697375

Ion Ratio Lower Upper

168 100

99 48.2 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

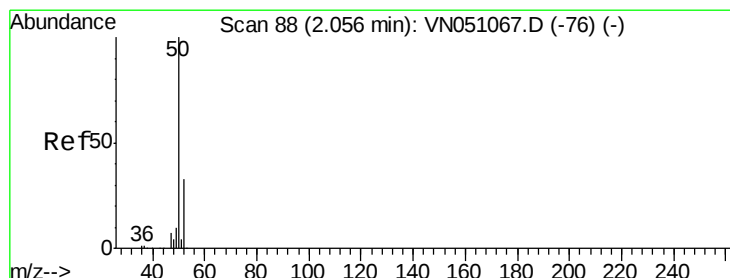
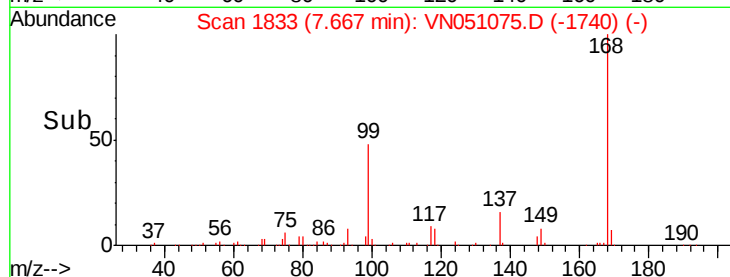
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051075.D

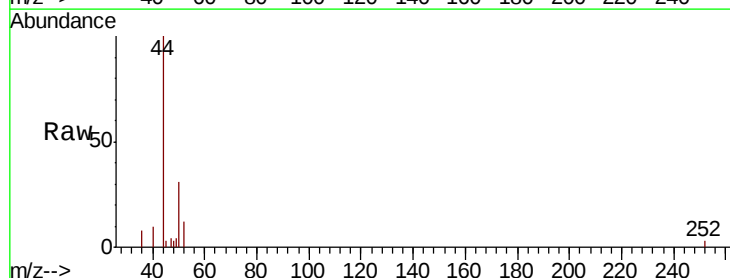
Acq: 10 Sep 2018 14:07

Tgt Ion: 50 Resp: 2905

Ion Ratio Lower Upper

50 100

52 38.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

2000

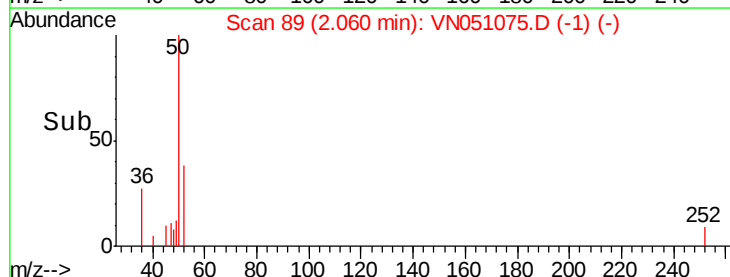
1500

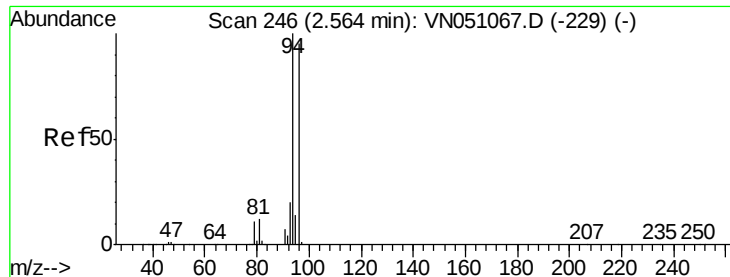
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

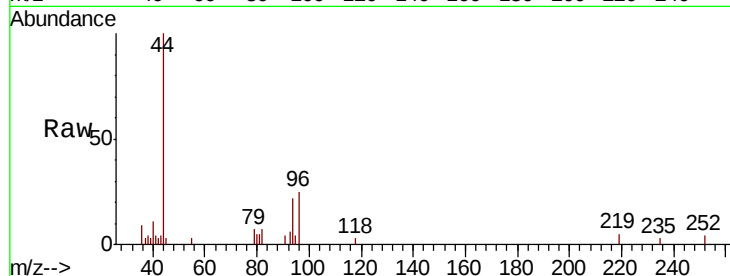
STORAGEBLANK-SOILREF-6

Tot Ion: 94 Resp: 2548

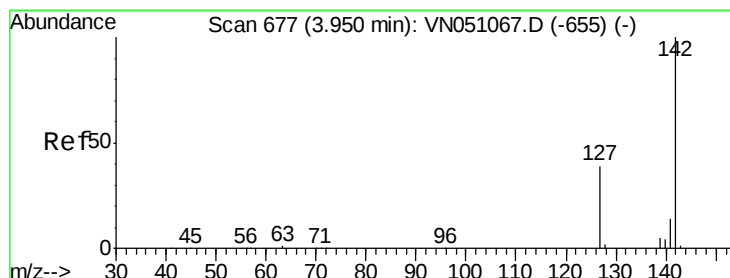
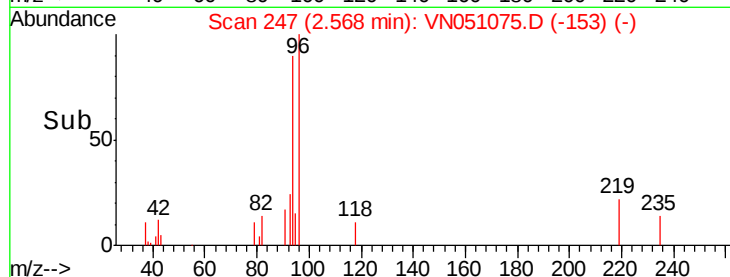
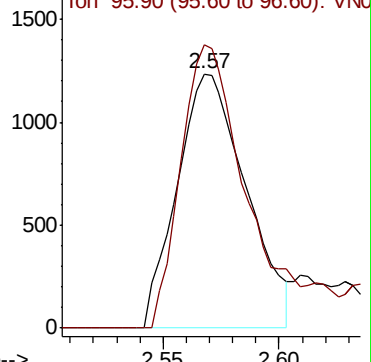
Ion Ratio Lower Upper

94 100

96 111.3 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN051075.D (-153) (-)



#10

Methyl Iodide

Concen: 5.77 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

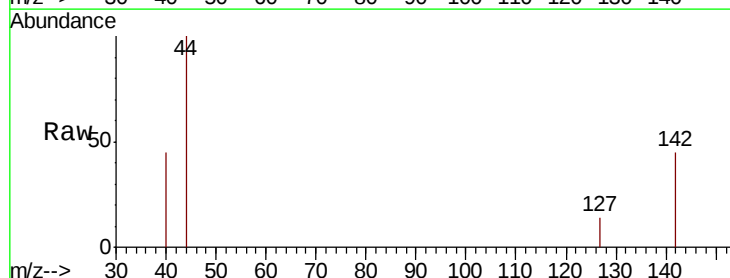
Tgt Ion: 142 Resp: 1184

Ion Ratio Lower Upper

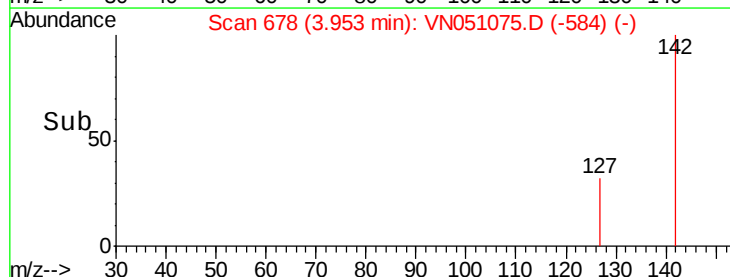
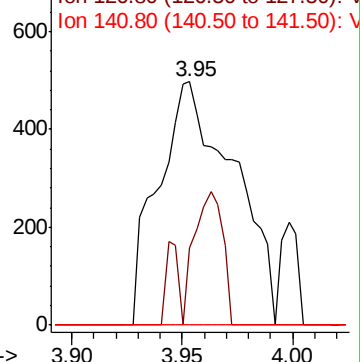
142 100

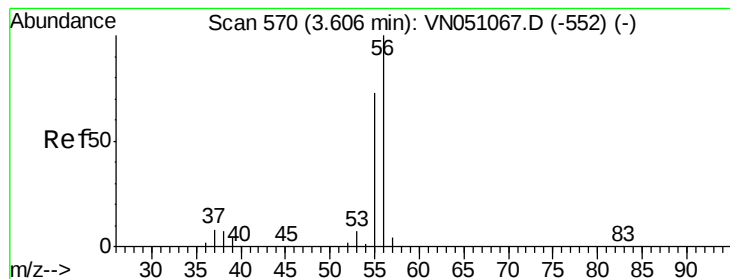
127 20.8 31.0 46.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VN051075.D (-584) (-)





#13

Acrolein

Concen: 24.58 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

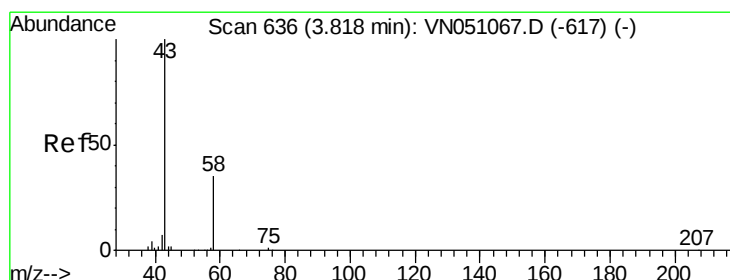
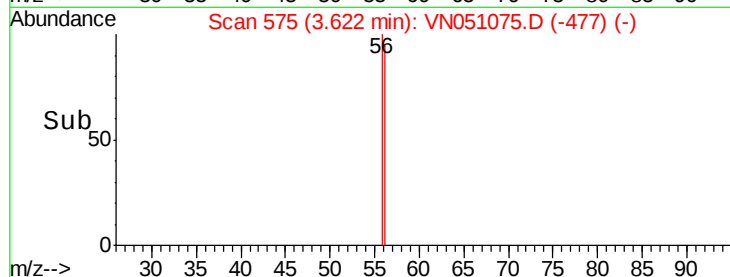
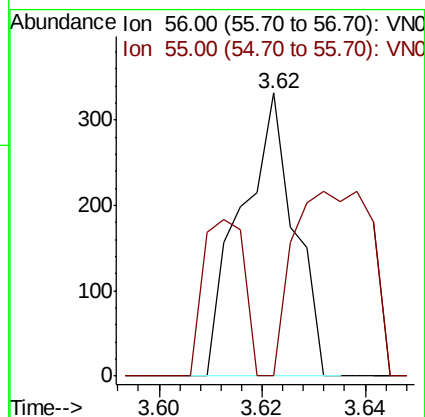
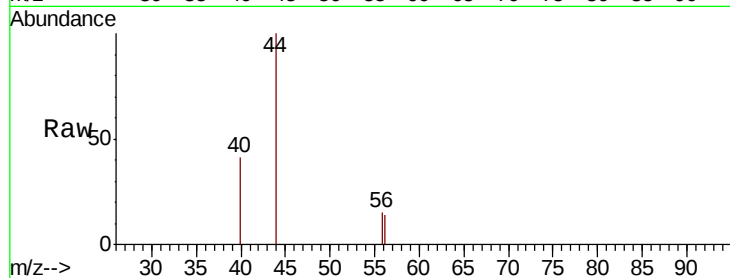
STORAGEBLANK-SOILREF-6

Tot Ion: 56 Resp: 237

Ion Ratio Lower Upper

56 100

55 42.6 58.0 87.0#



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051075.D

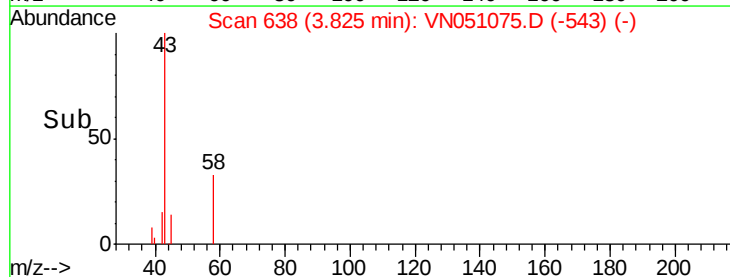
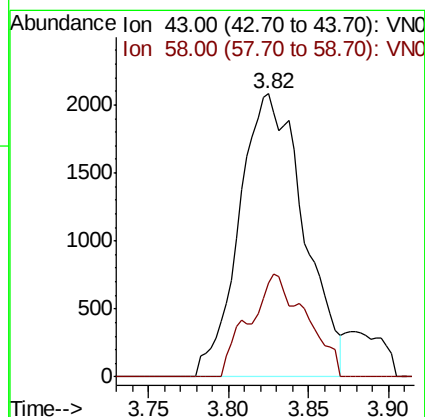
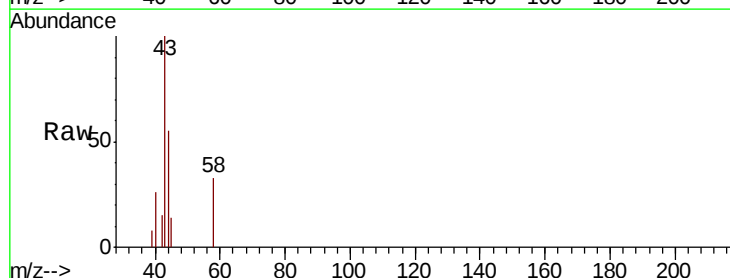
Acq: 10 Sep 2018 14:07

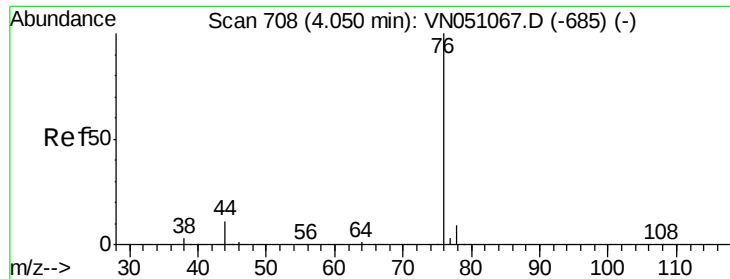
Tgt Ion: 43 Resp: 5772

Ion Ratio Lower Upper

43 100

58 33.1 27.8 41.6





#17

Carbon Disulfide

Concen: 0.34 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

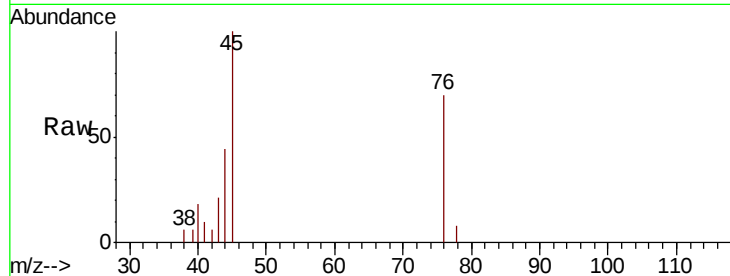
STORAGEBLANK-SOILREF-6

Tot Ion: 76 Resp: 4973

Ion Ratio Lower Upper

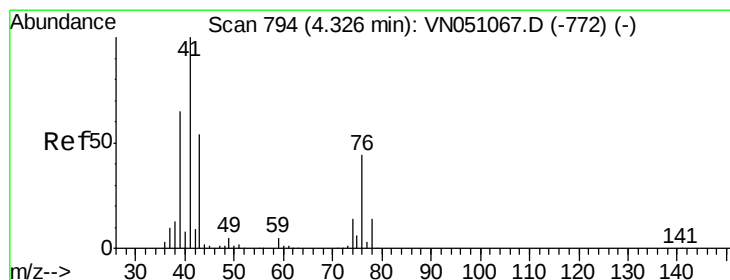
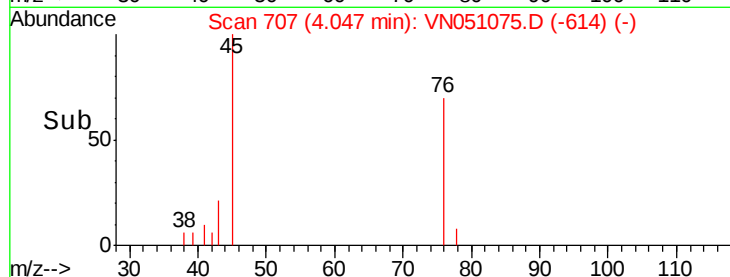
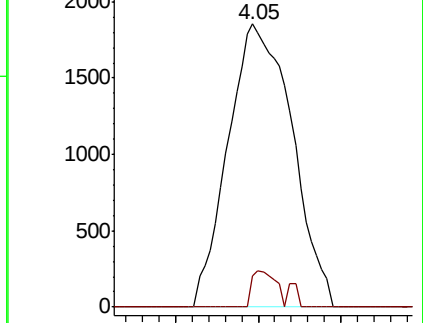
76 100

78 10.9 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.26 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051075.D

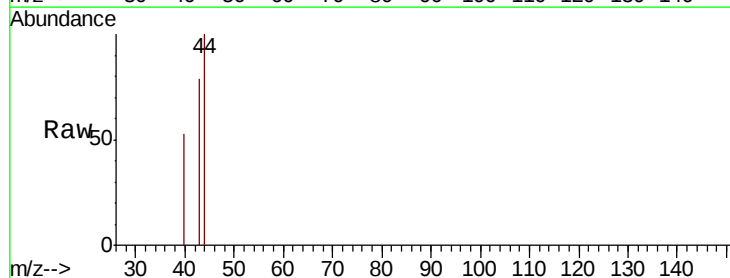
Acq: 10 Sep 2018 14:07

Tgt Ion: 43 Resp: 1617

Ion Ratio Lower Upper

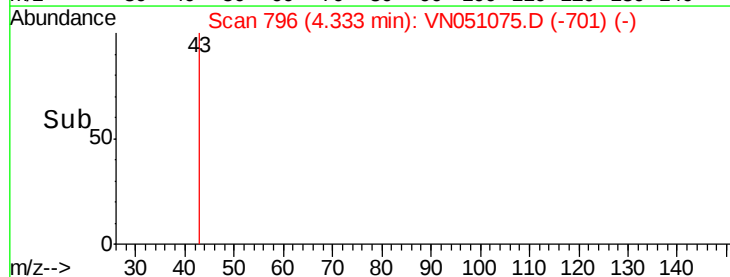
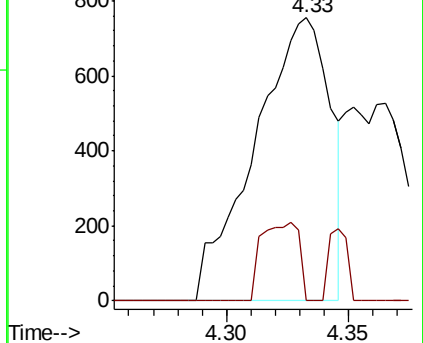
43 100

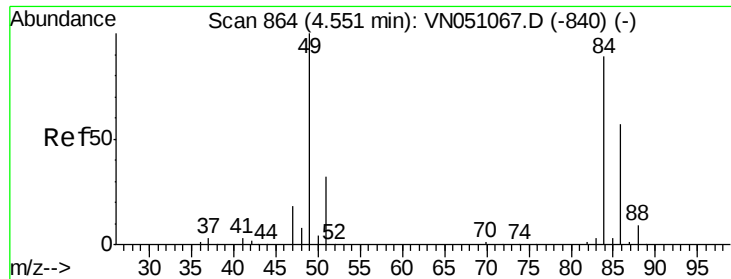
74 13.7 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

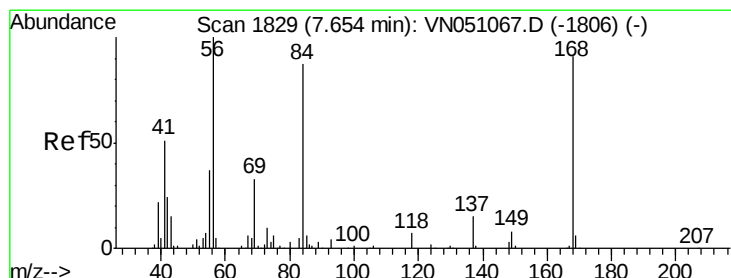
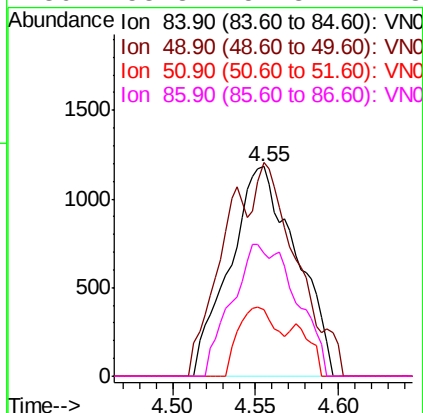
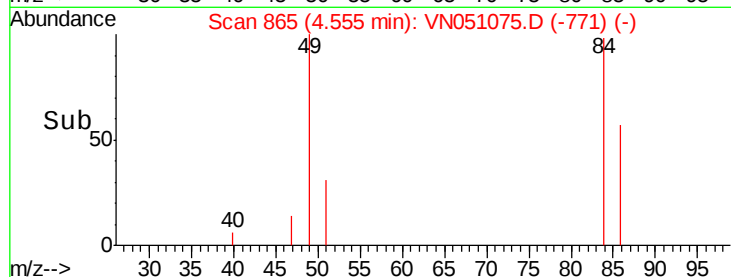
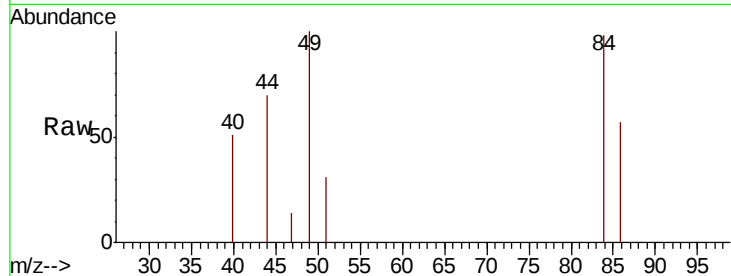




#20
Methvlene Chloride
Concen: 0.38 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051075.D
Acq: 10 Sep 2018 14:07

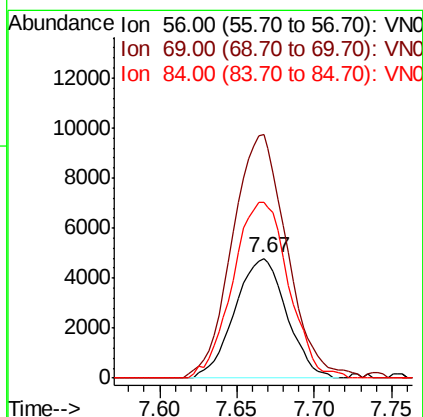
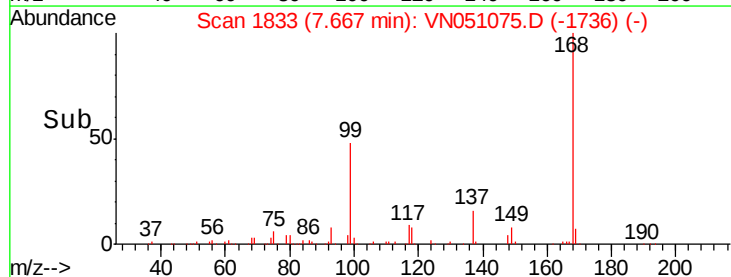
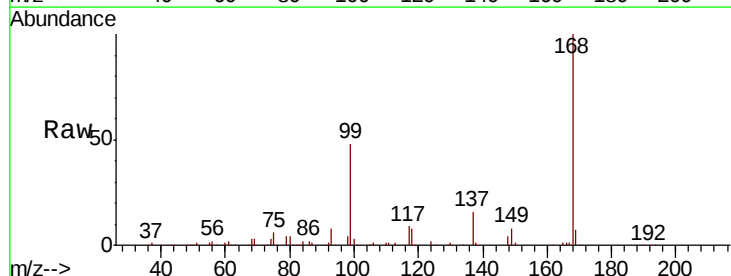
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STORAGEBLANK-SOILREF-6

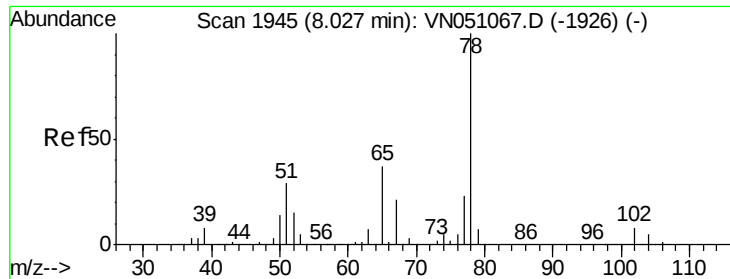
Tot Ion:	84	Resp:	3296
Ion	Ratio	Lower	Upper
84	100		
49	101.8	90.2	135.2
51	31.5	28.4	42.6
86	58.3	51.8	77.8



#31
Cyclohexane
Concen: 0.65 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051075.D
Acq: 10 Sep 2018 14:07

Tgt Ion:	56	Resp:	11188
Ion	Ratio	Lower	Upper
56	100		
69	199.4	26.3	39.5#
84	146.4	69.4	104.0#





#33

1,2-Dichloroethane-d4

Concen: 51.47 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

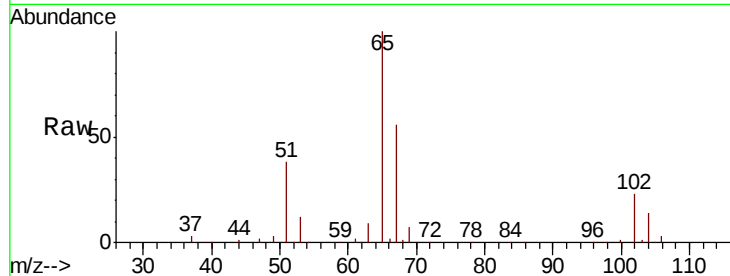
STORAGEBLANK-SOILREF-6

Tot Ion: 65 Resp: 399470

Ion Ratio Lower Upper

65 100

67 55.5 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN051067.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051067.D (-1926) (-)

8.03

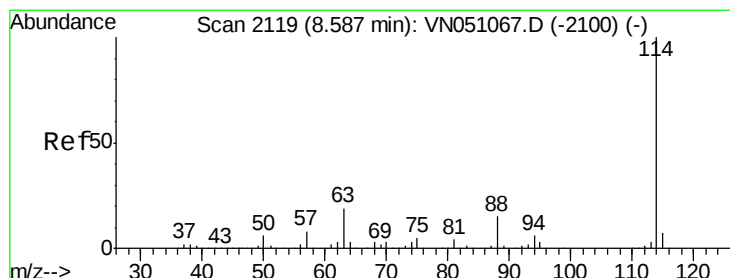
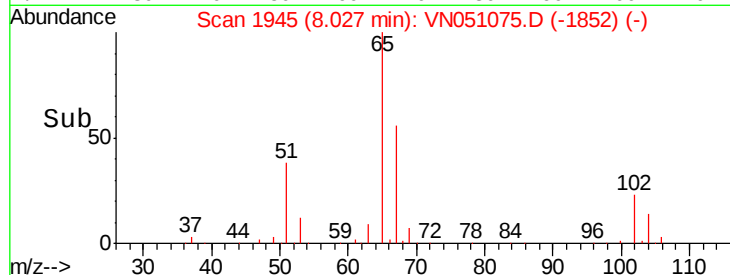
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

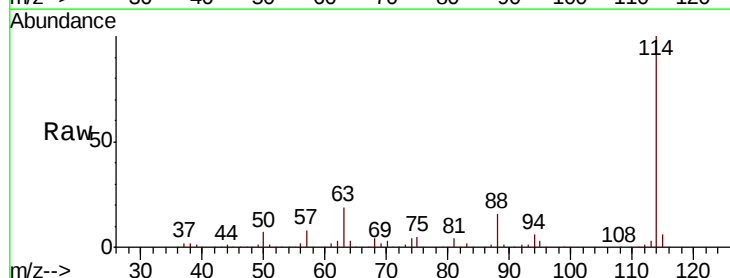
Tgt Ion: 114 Resp: 1040015

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.8

88 15.8 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): VN051067.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN051067.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN051067.D (-2100) (-)

8.59

600000

500000

400000

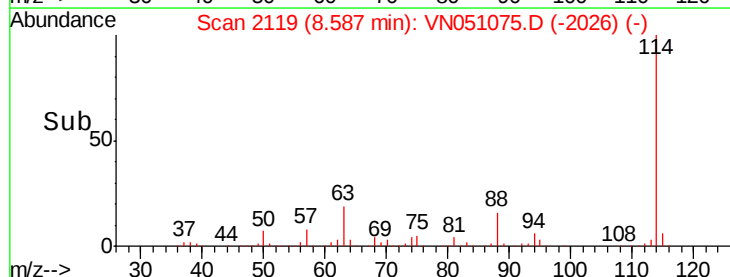
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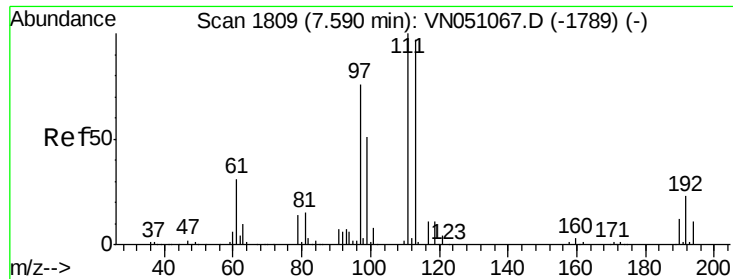
200000

100000

0

Time-->

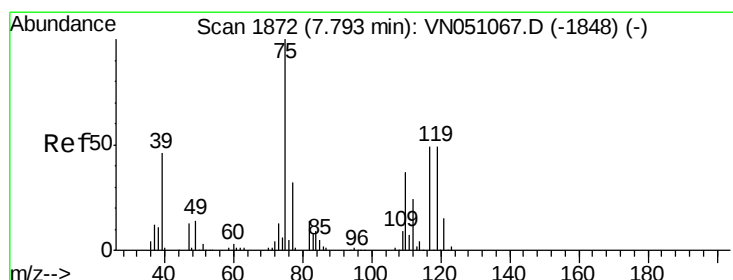
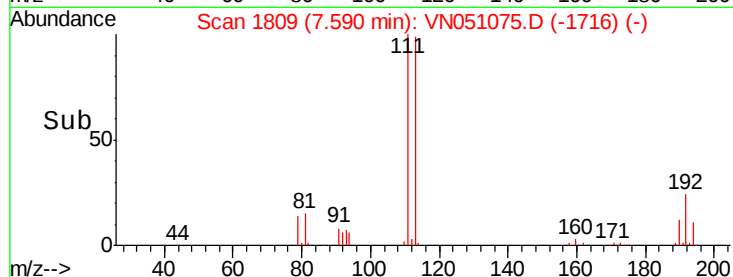
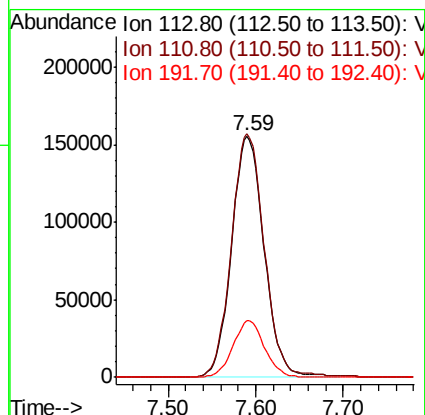
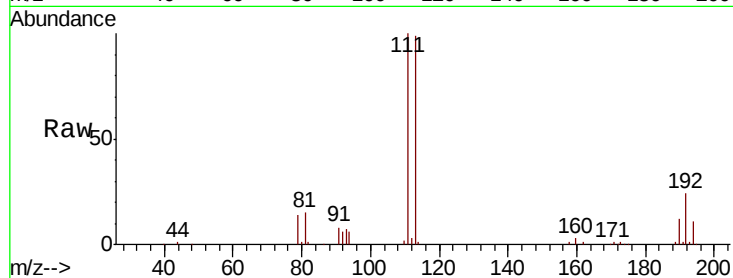




#35
 Dibromofluoromethane
 Concen: 51.37 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN051075.D
 Acq: 10 Sep 2018 14:07

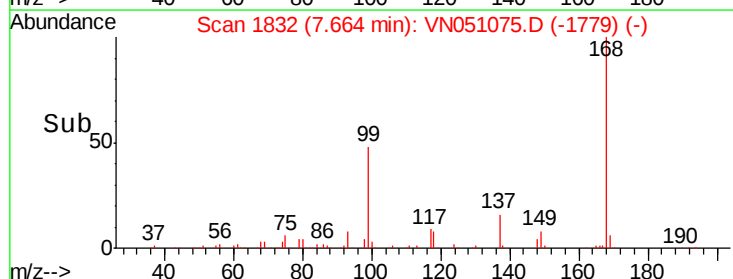
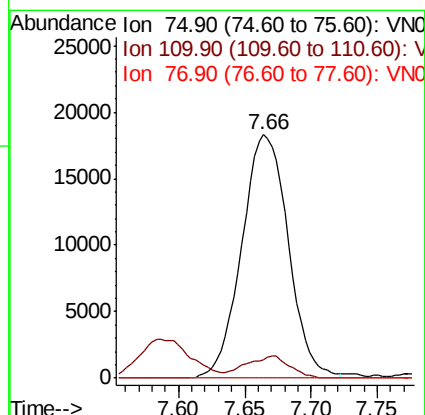
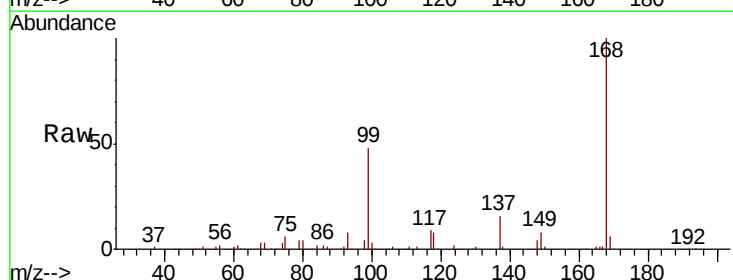
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGEBLANK-SOILREF-6

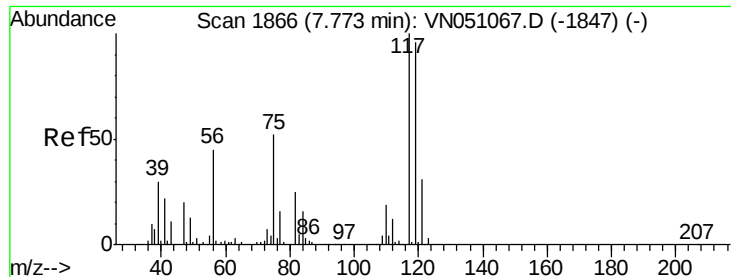
Tot Ion:113 Resp: 401440
 Ion Ratio Lower Upper
 113 100
 111 102.5 83.0 124.6
 192 23.0 18.7 28.1



#36
 1,1-Dichloropropene
 Concen: 3.93 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN051075.D
 Acq: 10 Sep 2018 14:07

Tgt Ion: 75 Resp: 44853
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.6 55.8#
 77 0.0 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 5.31 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

STORAGEBLANK-SOILREF-6

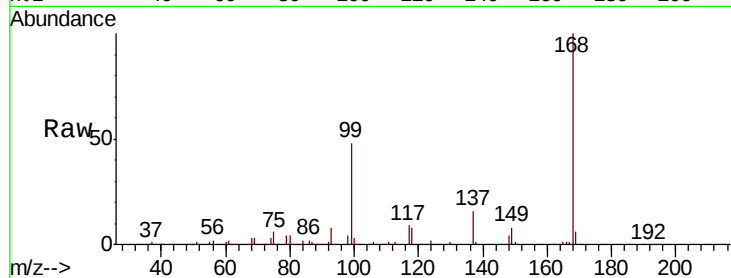
Tot Ion:117 Resp: 59713

Ion Ratio Lower Upper

117 100

119 5.4 76.8 115.2#

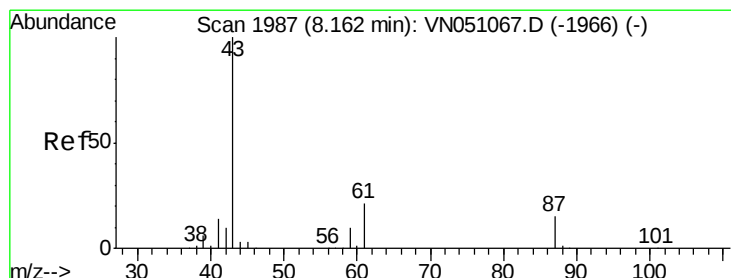
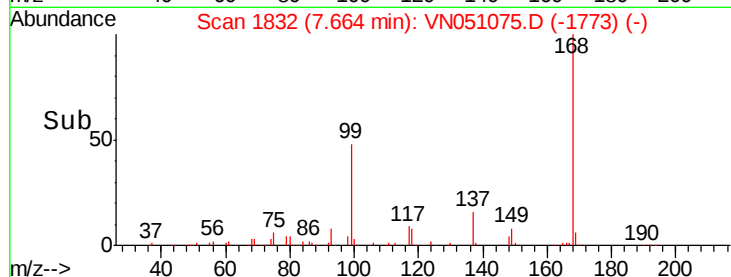
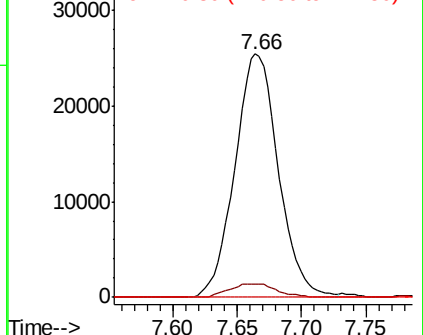
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.63 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.13 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

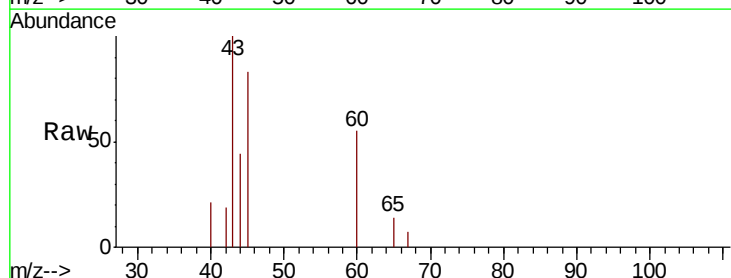
Tgt Ion: 43 Resp: 7389

Ion Ratio Lower Upper

43 100

61 0.0 25.0 37.6#

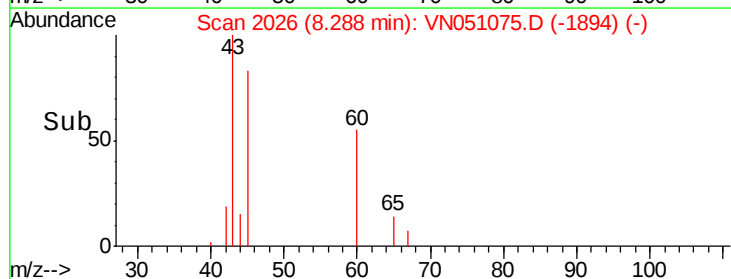
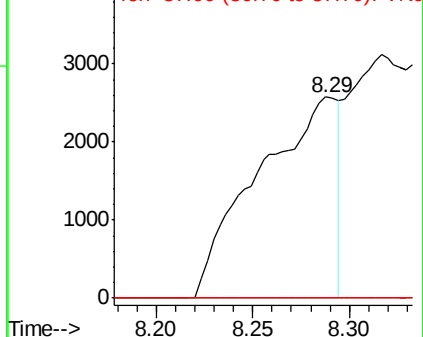
87 0.0 11.8 17.8#

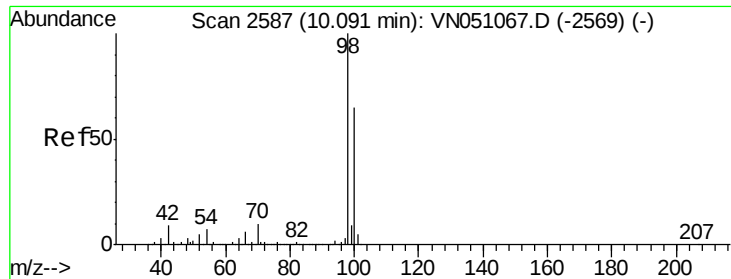


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 48.97 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

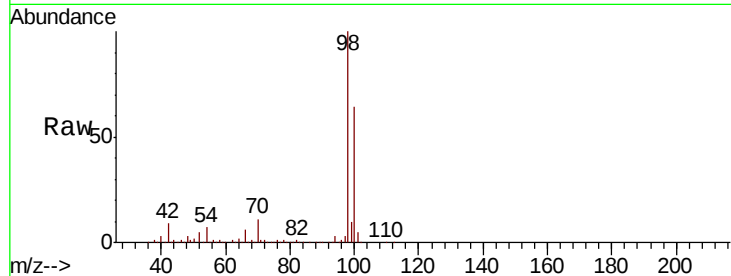
STORAGEBLANK-SOILREF-6

Tot Ion: 98 Resp: 1452136

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN051067.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN051067.D (-2569) (-)

10.09

800000

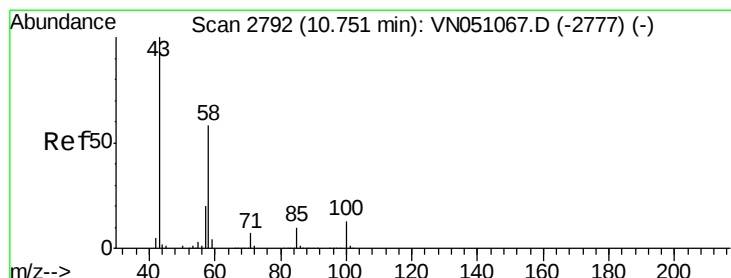
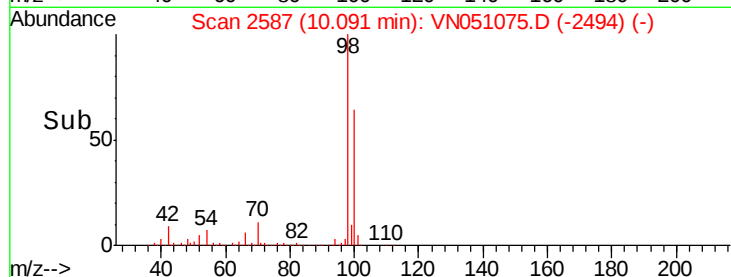
600000

400000

200000

0

Time-->



#59

2-Hexanone

Concen: 0.34 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN051075.D

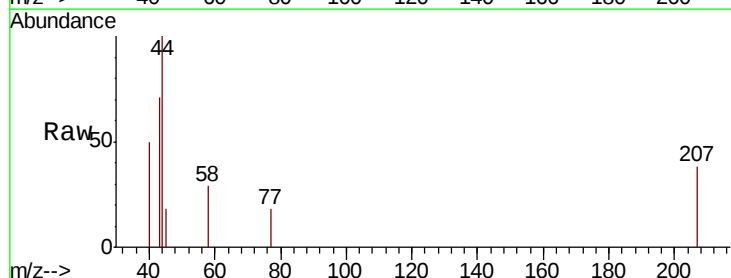
Acq: 10 Sep 2018 14:07

Tgt Ion: 43 Resp: 1502

Ion Ratio Lower Upper

43 100

58 31.9 29.3 88.0



Abundance Ion 43.00 (42.70 to 43.70): VN051067.D (-2777) (-)

Ion 58.00 (57.70 to 58.70): VN051067.D (-2777) (-)

10.75

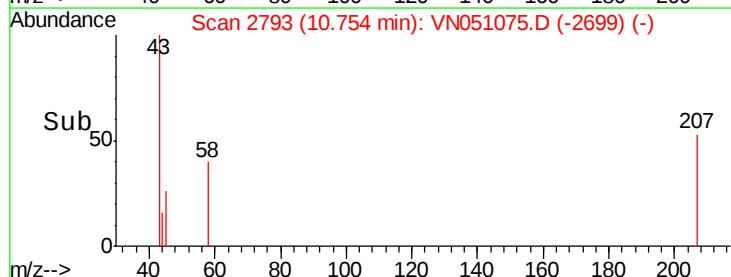
600

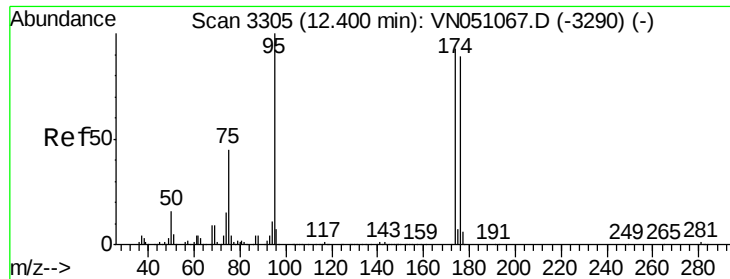
400

200

0

Time-->

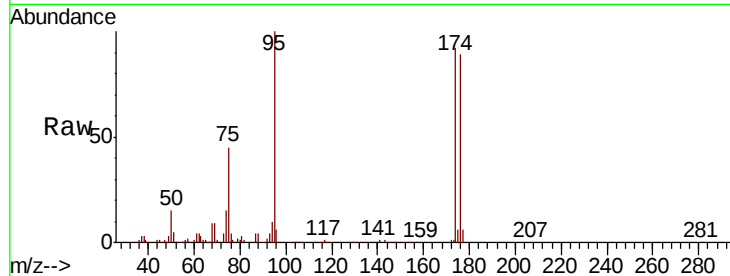




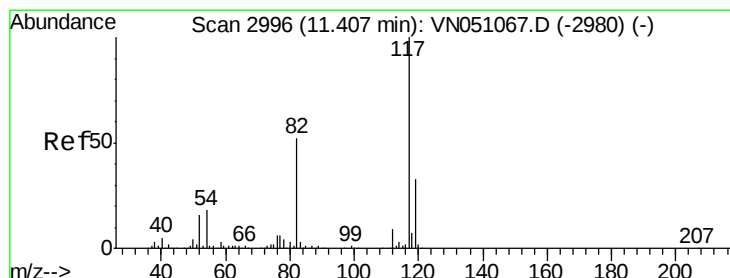
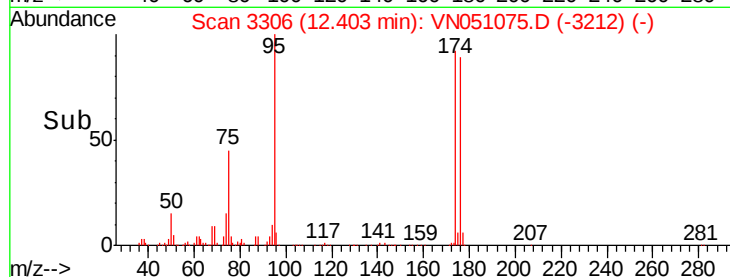
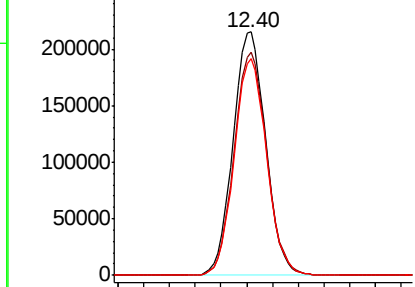
#62
4-Bromofluorobenzene
Concen: 38.46 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051075.D
Acq: 10 Sep 2018 14:07

Instrument :
MSVOA_N
ClientSampleId :
STORAGEBLANK-SOILREF-6

Tot Ion: 95 Resp: 377318
Ion Ratio Lower Upper
95 100
174 91.9 0.0 184.8
176 88.7 0.0 178.6

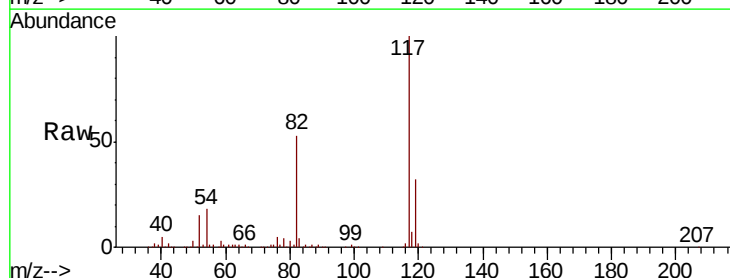


Abundance Ion 94.90 (94.60 to 95.60): VN051067.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN051067.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN051067.D (-3290) (-)

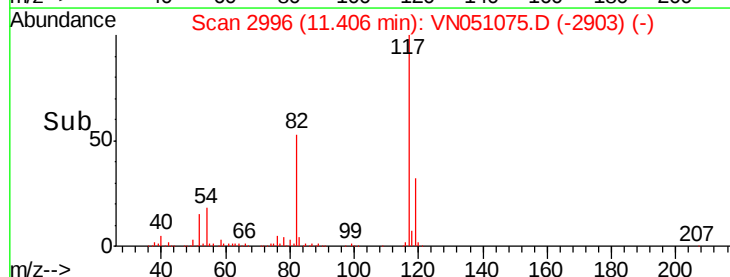
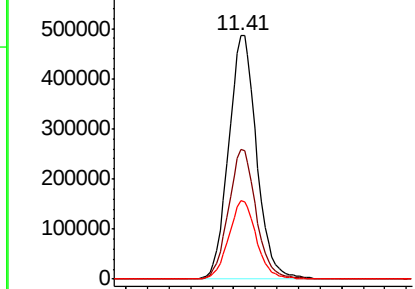


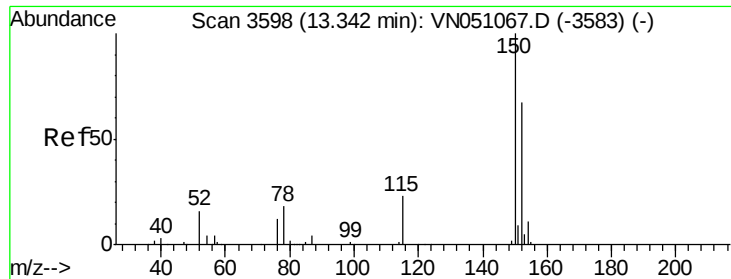
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051075.D
Acq: 10 Sep 2018 14:07

Tgt Ion: 117 Resp: 880065
Ion Ratio Lower Upper
117 100
82 53.2 41.8 62.6
119 32.1 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): VN051067.D (-2980) (-)
Ion 82.00 (81.70 to 82.70): VN051067.D (-2980) (-)
Ion 118.90 (118.60 to 119.60): VN051067.D (-2980) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

STORAGEBLANK-SOILREF-6

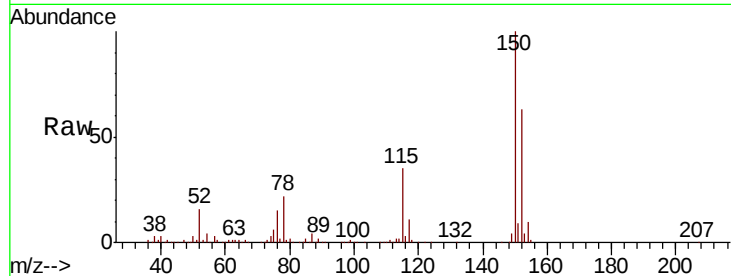
Tot Ion:152 Resp: 261885

Ion Ratio Lower Upper

152 100

115 55.9 28.2 84.7

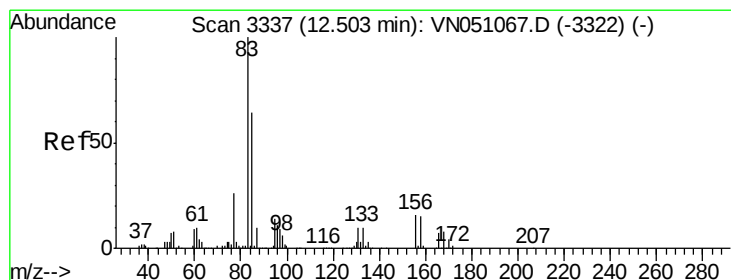
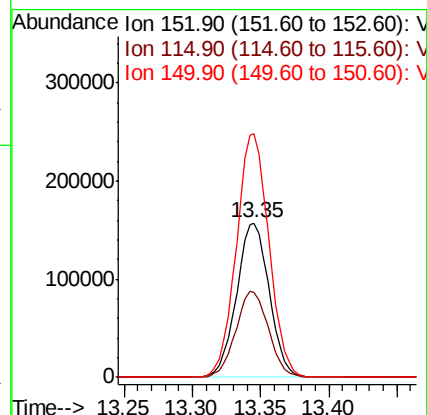
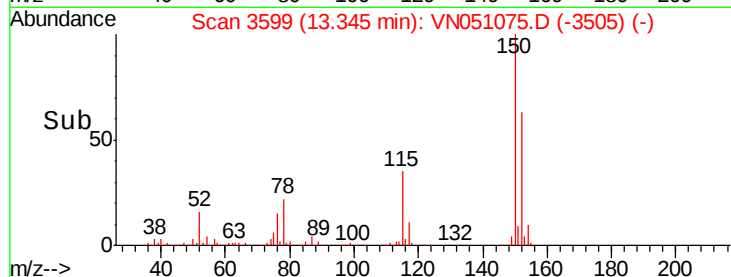
150 157.0 0.0 349.0



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3309

Delta R.T. -0.09 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

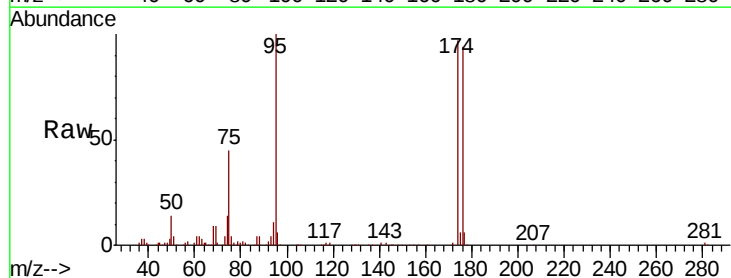
Tgt Ion: 83 Resp: 68

Ion Ratio Lower Upper

83 100

131 541.2 5.3 16.1#

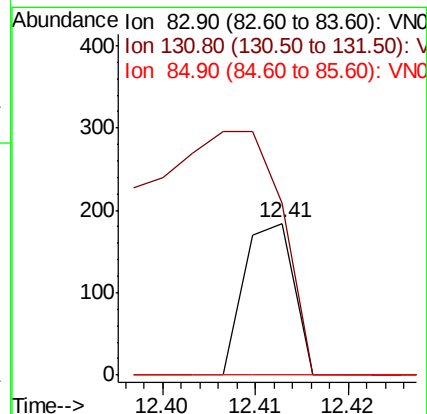
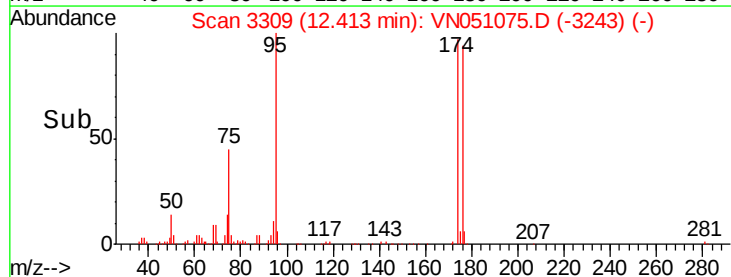
85 0.0 32.3 96.8#

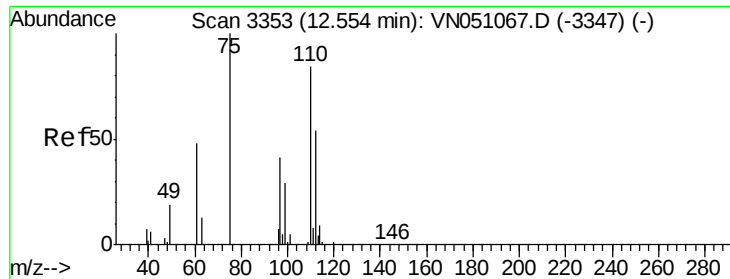


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 42.10 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

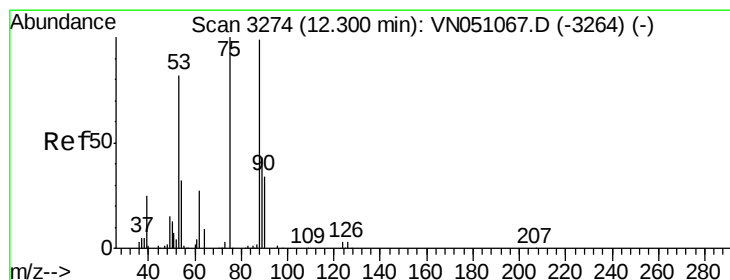
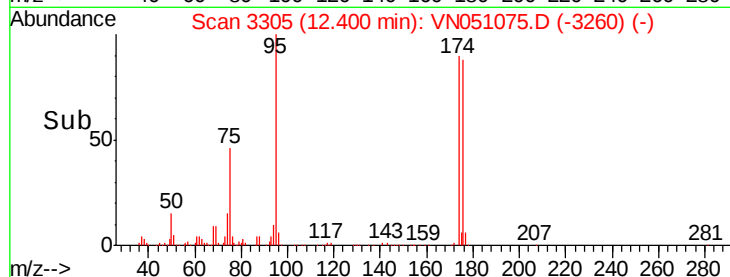
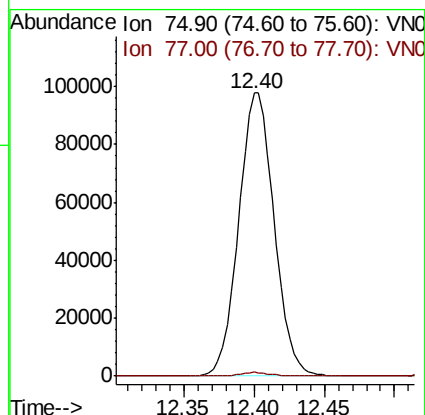
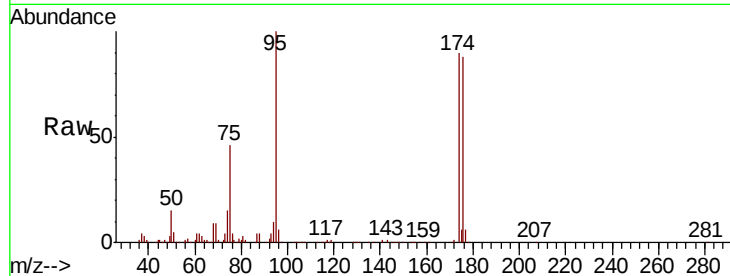
STORAGEBLANK-SOILREF-6

Tot Ion: 75 Resp: 171901

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 124.66 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

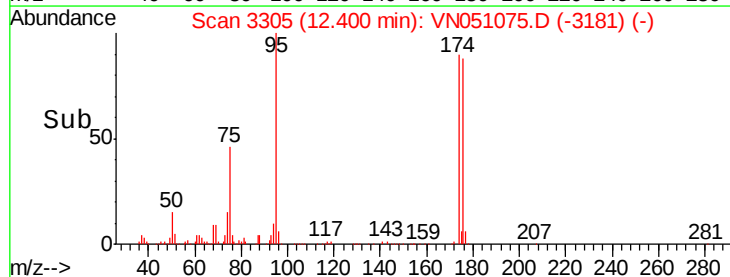
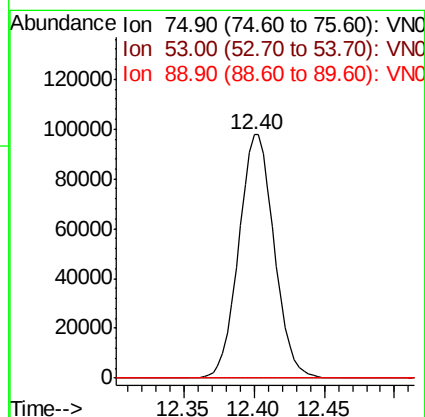
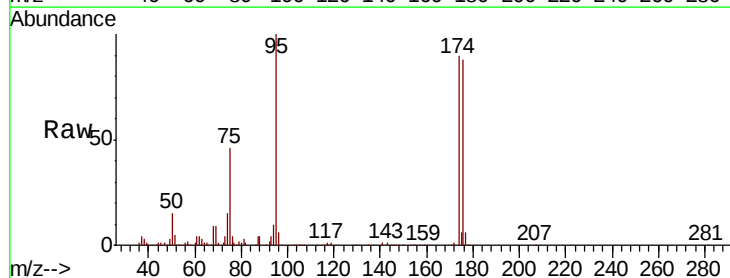
Tgt Ion: 75 Resp: 171901

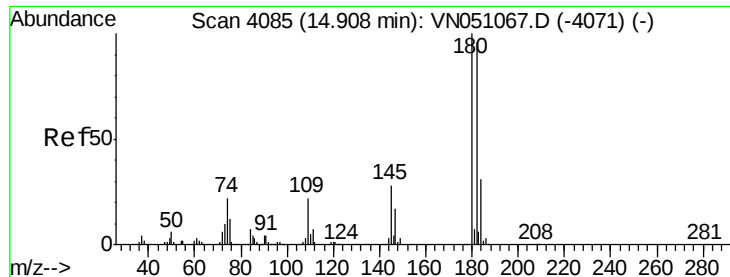
Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

89 0.0 36.0 54.0#





#93

1,2,4-Trichlorobenzene

Concen: 4.14 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

STORAGEBLANK-SOILREF-6

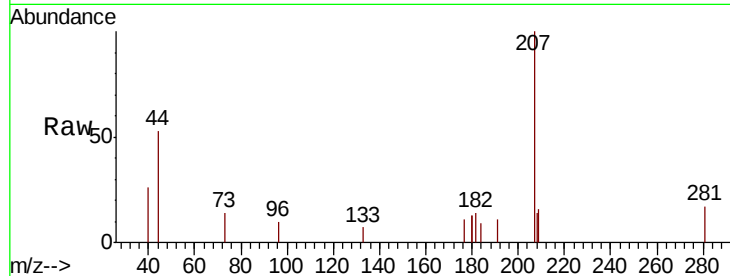
Tot Ion:180 Resp: 804

Ion Ratio Lower Upper

180 100

182 39.1 47.3 141.8#

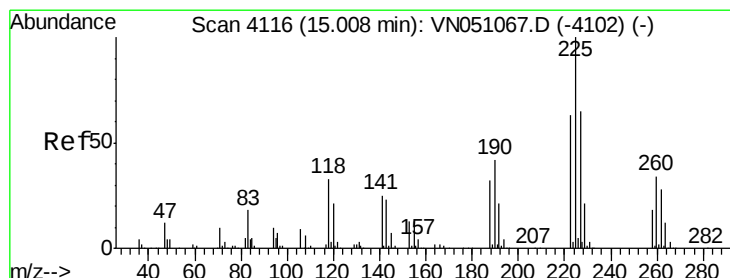
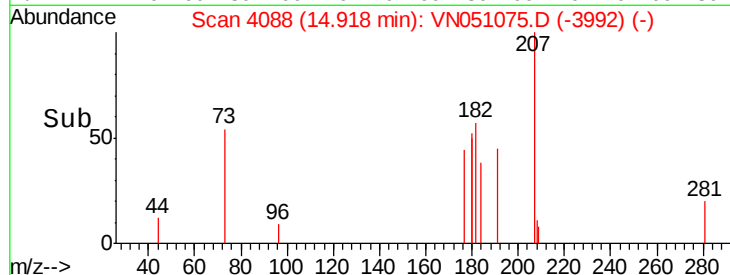
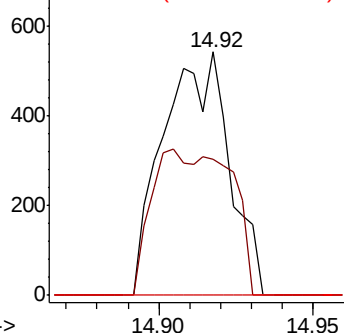
145 0.0 14.2 42.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

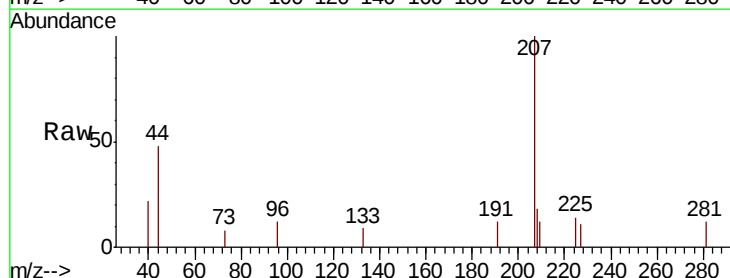
Tgt Ion:225 Resp: 306

Ion Ratio Lower Upper

225 100

223 19.9 31.4 94.0#

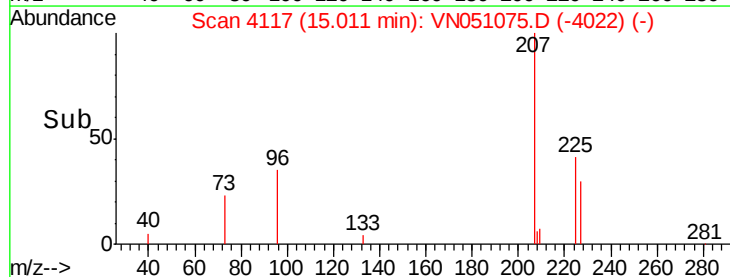
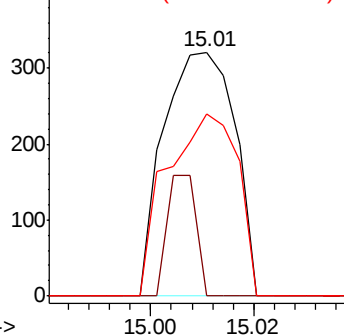
227 74.5 32.1 96.3

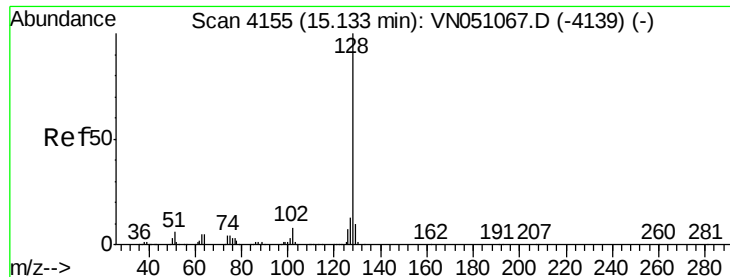


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.49 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

Instrument :

MSVOA_N

ClientSampleId :

STORAGEBLANK-SOILREF-6

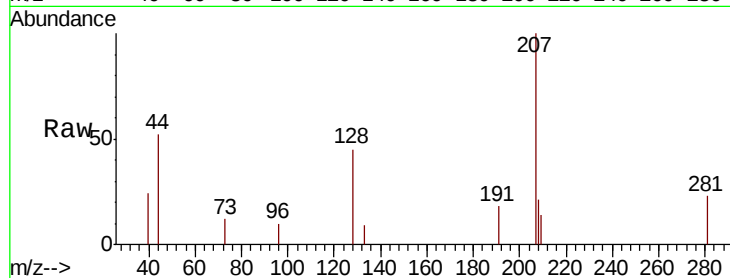
Tot Ion:128 Resp: 1606

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

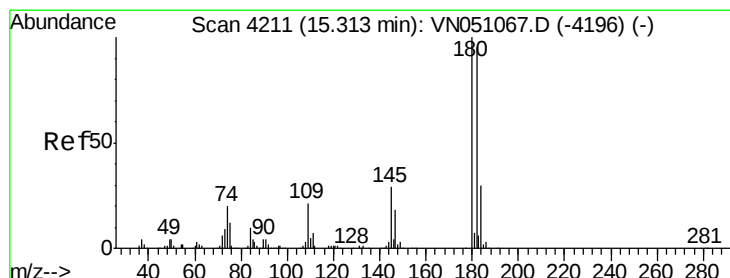
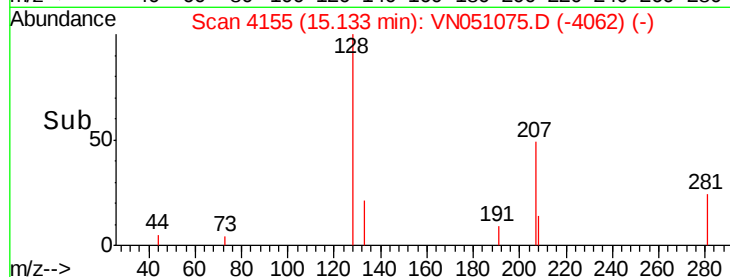
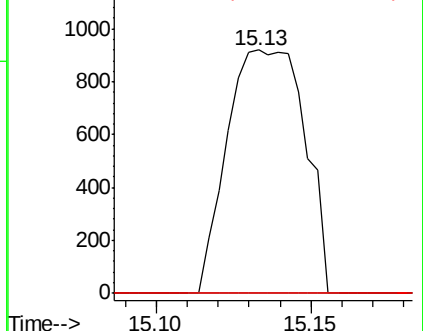
129 0.0 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.09 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN051075.D

Acq: 10 Sep 2018 14:07

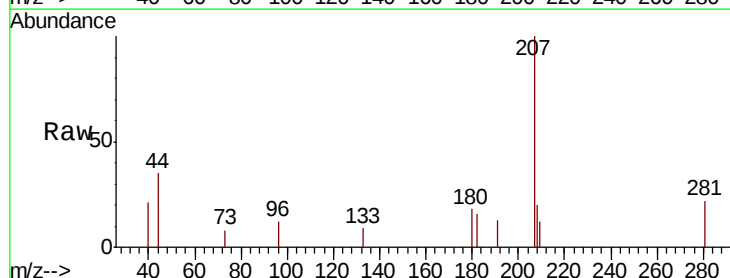
Tgt Ion:180 Resp: 671

Ion Ratio Lower Upper

180 100

182 79.4 47.8 143.3

145 0.0 14.6 43.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

