

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092418\
 Data File : VN051464.D
 Acq On : 24 Sep 2018 16:22
 Operator : MD\SY
 Sample : J5057-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HC-SOIL

Quant Time: Sep 25 02:00:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	621077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	971553	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	828159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	302848	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	428397	55.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.12%	
35) Dibromofluoromethane	7.59	113	375348	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
50) Toluene-d8	10.09	98	1355329	46.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.66%	
62) 4-Bromofluorobenzene	12.40	95	372008	39.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.62%	

Target Compounds

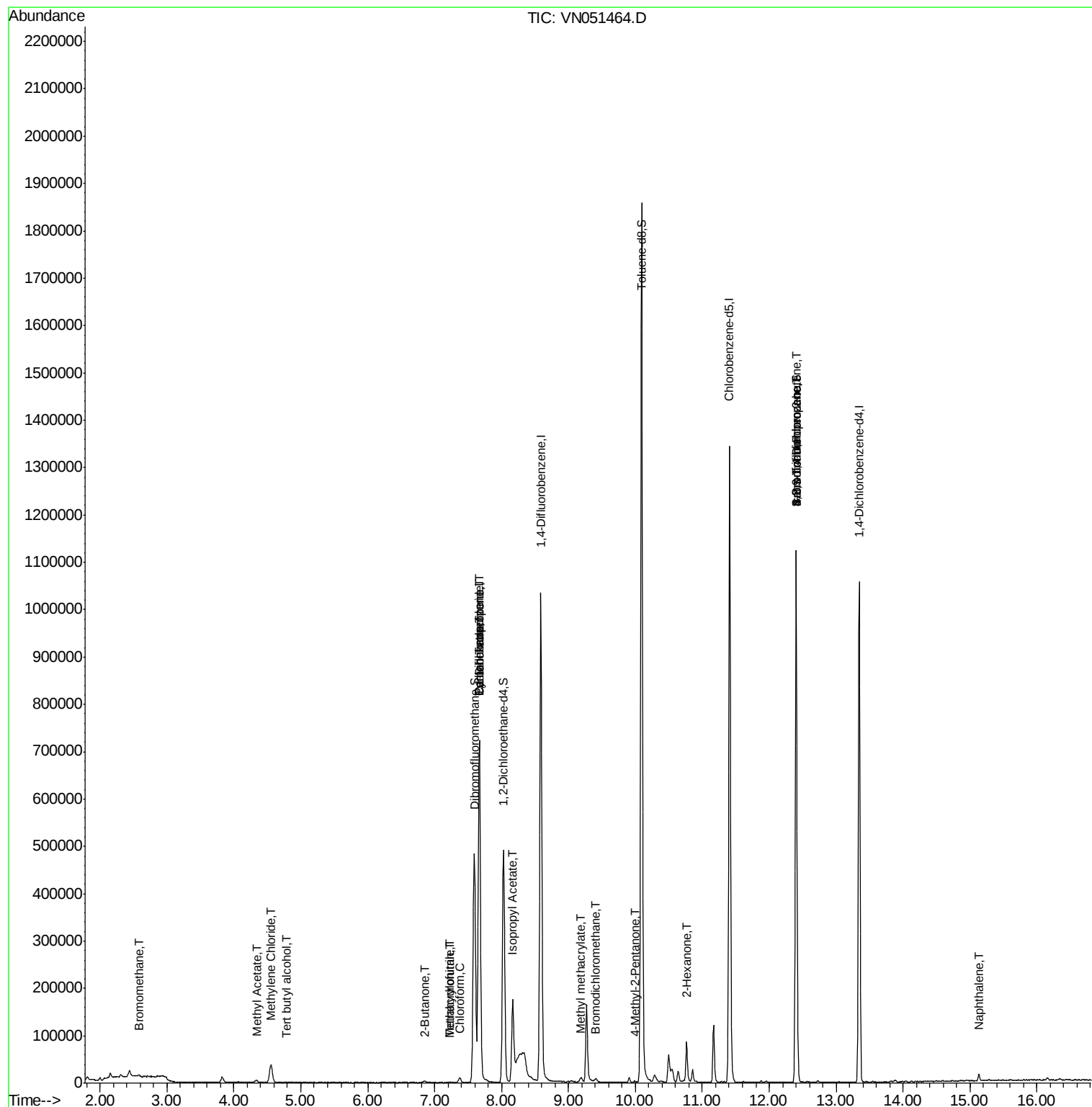
					Qvalue	
5) Bromomethane	2.58	94	1181	0.252	ug/l #	54
11) Tert butyl alcohol	4.78	59	355	0.808	ug/l #	78
16) Acetone	3.82	43	19234	Below Cal		98
18) Methyl Acetate	4.33	43	10110	1.706	ug/l	99
20) Methylene Chloride	4.56	84	28402	3.689	ug/l	95
25) 2-Butanone	6.84	43	1978	0.743	ug/l #	80
29) Tetrahydrofuran	7.23	42	1000	0.593	ug/l #	34
30) Chloroform	7.37	83	10788	0.814	ug/l	91
31) Cyclohexane	7.67	56	11548	0.943	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44180	3.927	ug/l #	49
38) Carbon Tetrachloride	7.67	117	57714	4.904	ug/l #	15
41) Methacrylonitrile	7.24	41	791	0.221	ug/l #	34
43) Isopropyl Acetate	8.17	43	214979	18.379	ug/l	97
47) Bromodichloromethane	9.41	83	3176	0.283	ug/l #	89
48) Methyl methacrylate	9.18	41	6296	1.080	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	1572	0.244	ug/l #	87
59) 2-Hexanone	10.76	43	11650	2.794	ug/l #	61
71) Bromoform	12.40	173	2255	0.411	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	183807	36.560	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183807	112.421	ug/l #	12
95) Naphthalene	15.13	128	11295	8.886	ug/l #	94

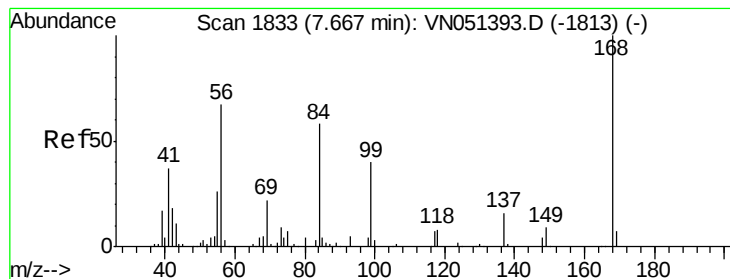
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092418\
Data File : VN051464.D
Acq On : 24 Sep 2018 16:22
Operator : MD\SY
Sample : J5057-10
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
HC-SOIL

Quant Time: Sep 25 02:00:00 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 24 06:41:32 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Instrument :

MSVOA_N

ClientSampled :

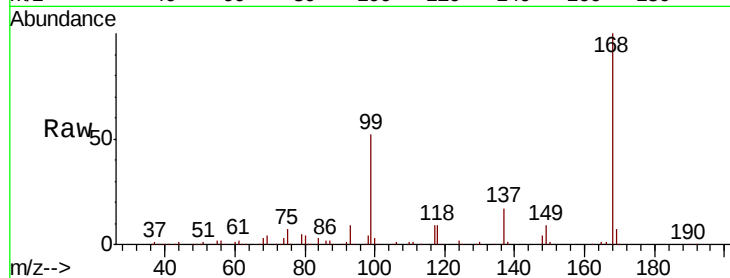
HC-SOIL

Tot Ion:168 Resp: 621077

Ion Ratio Lower Upper

168 100

99 51.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

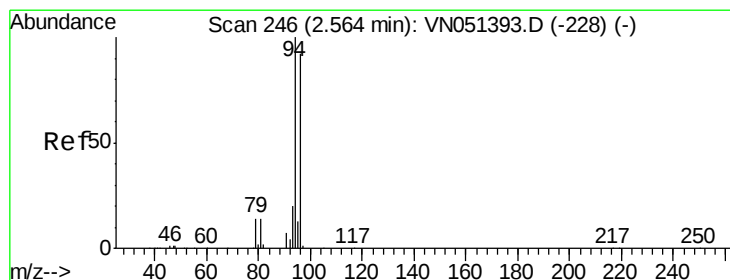
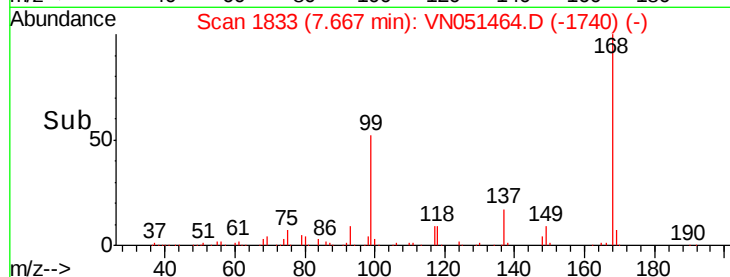
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.252 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.02 min

Lab File: VN051464.D

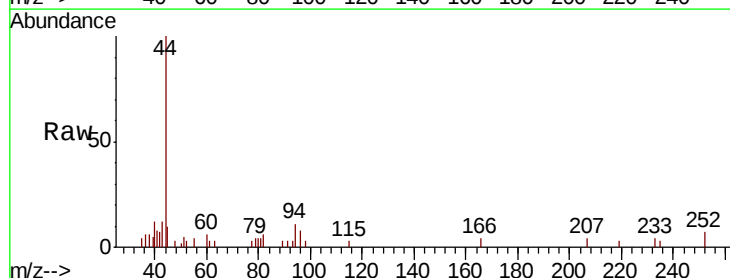
Acq: 24 Sep 2018 16:22

Tgt Ion: 94 Resp: 1181

Ion Ratio Lower Upper

94 100

96 48.1 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.58

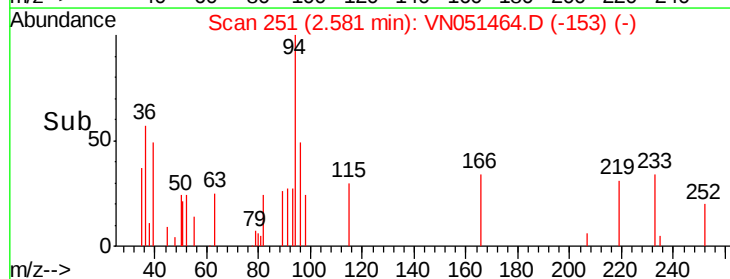
600

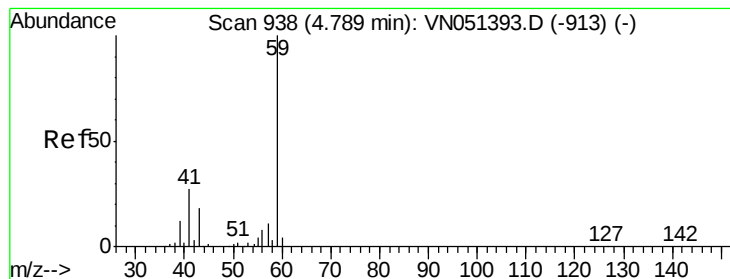
400

200

0

Time-->



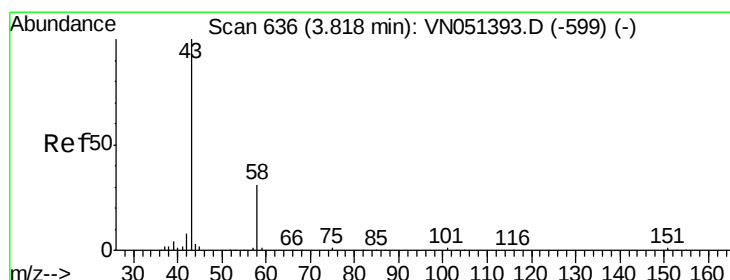
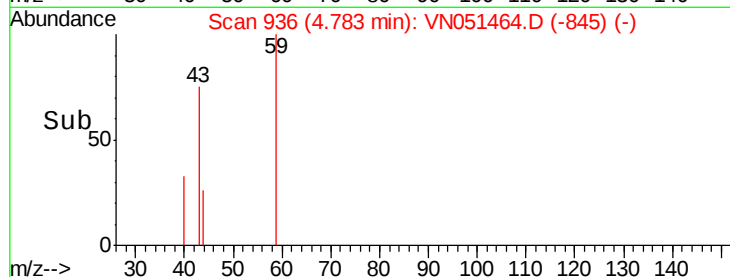
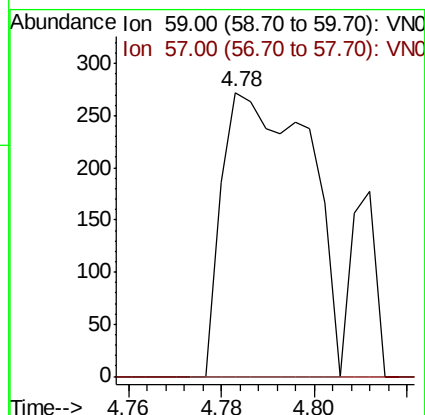
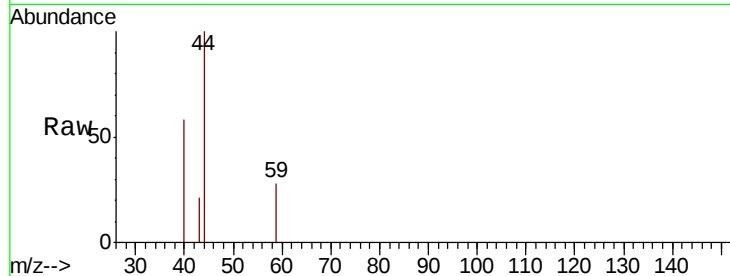


#11

Tert butyl alcohol
 Concen: 0.808 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VN051464.D
 Acq: 24 Sep 2018 16:22

Instrument :
 MSVOA_N
 ClientSampled :
 HC-SOIL

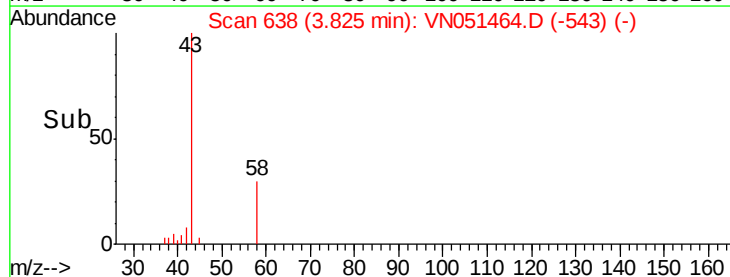
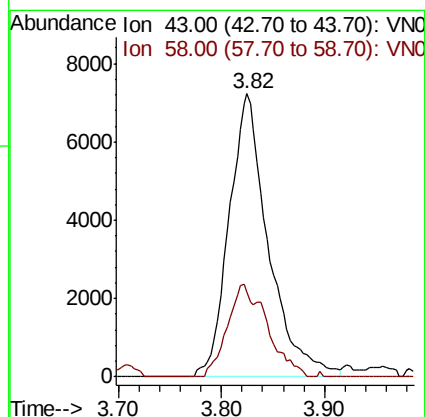
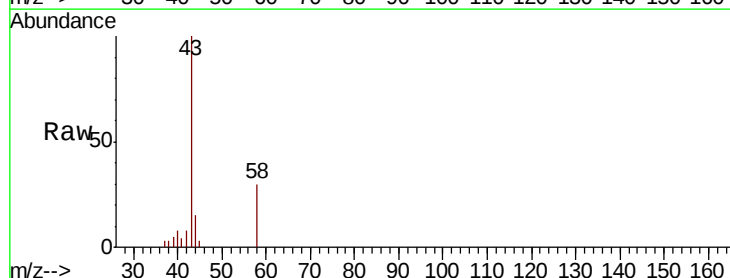
Tot Ion: 59 Resp: 355
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.2#

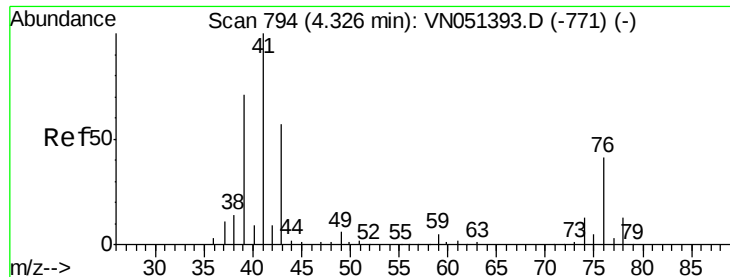


#16

Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN051464.D
 Acq: 24 Sep 2018 16:22

Tgt Ion: 43 Resp: 19234
 Ion Ratio Lower Upper
 43 100
 58 29.9 25.0 37.4

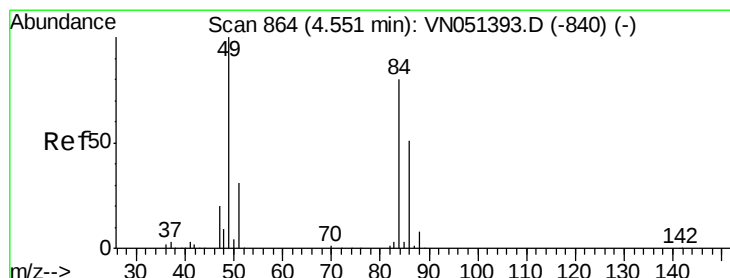
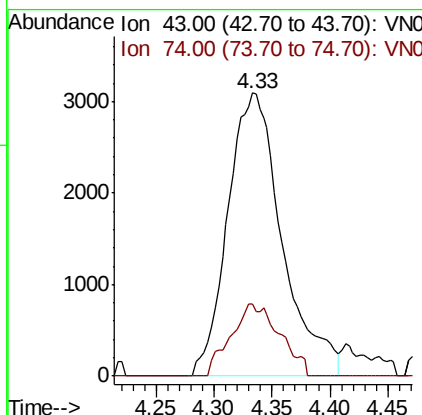
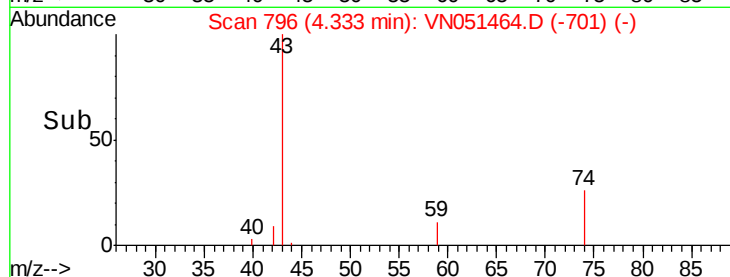
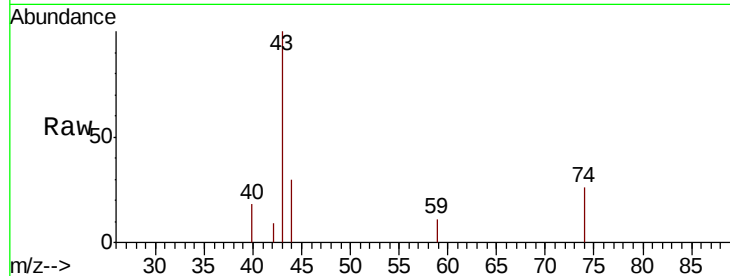




#18
Methyl Acetate
Concen: 1.706 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051464.D
Acq: 24 Sep 2018 16:22

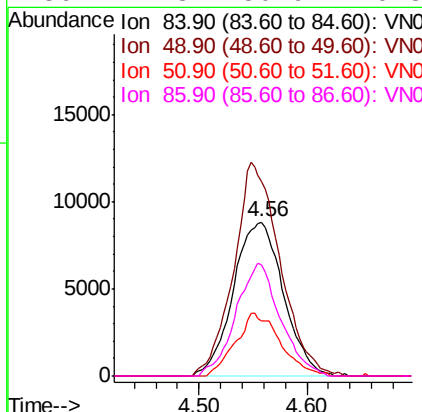
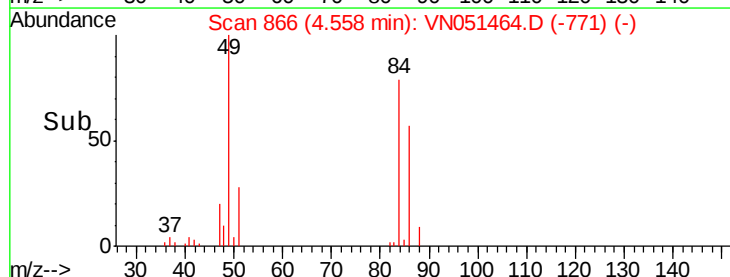
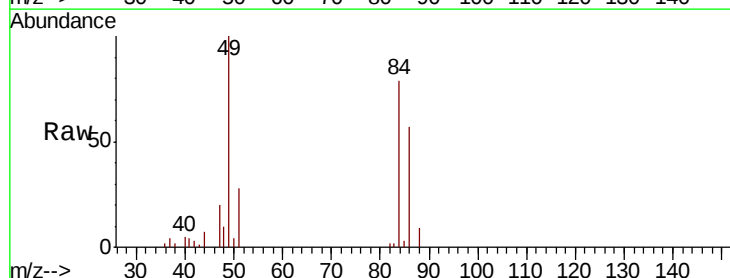
Instrument :
MSVOA_N
ClientSampled :
HC-SOIL

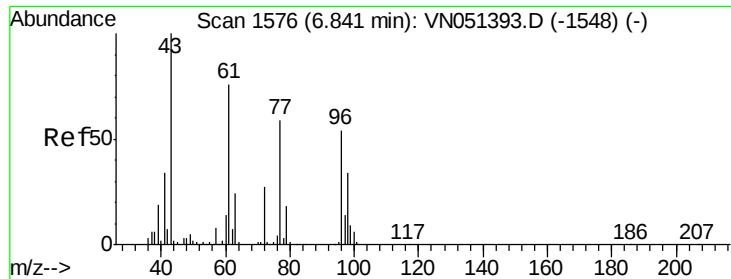
Tot Ion: 43 Resp: 10110
Ion Ratio Lower Upper
43 100
74 22.9 18.8 28.2



#20
Methylene Chloride
Concen: 3.689 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051464.D
Acq: 24 Sep 2018 16:22

Tgt Ion: 84 Resp: 28402
Ion Ratio Lower Upper
84 100
49 126.7 99.9 149.9
51 35.8 31.4 47.2
86 72.3 50.9 76.3

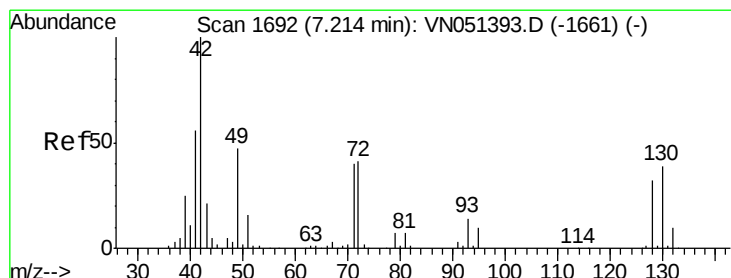
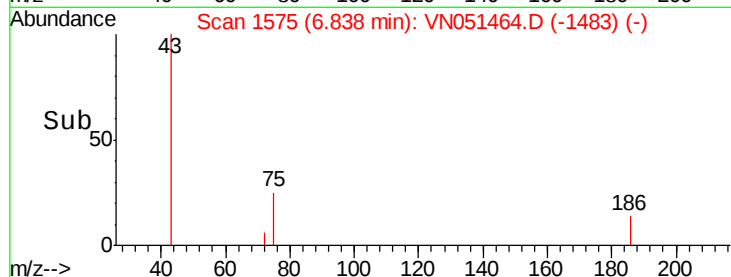
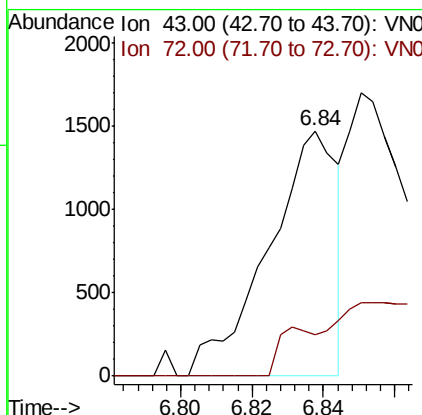
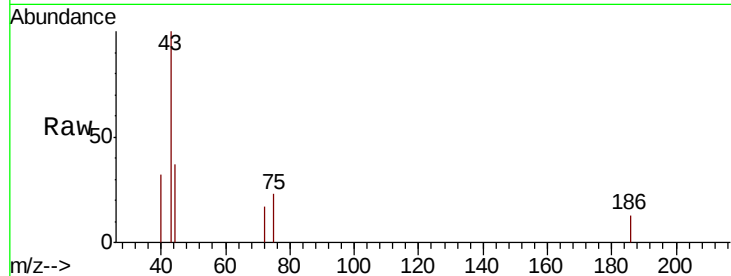




#25
2-Butanone
Concen: 0.743 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN051464.D
Acq: 24 Sep 2018 16:22

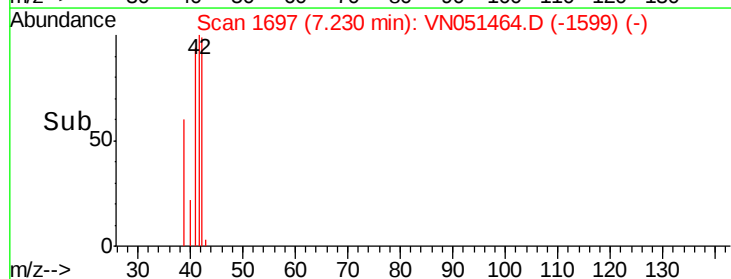
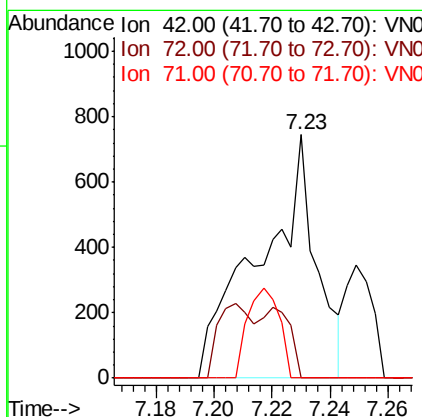
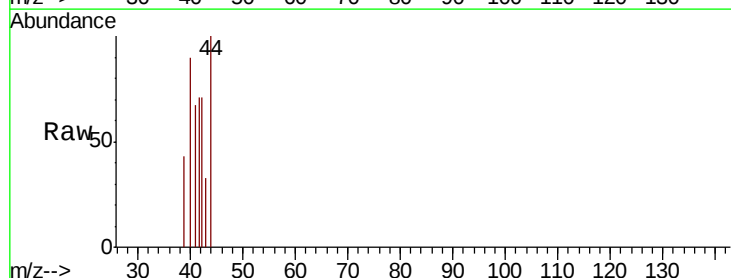
Instrument :
MSVOA_N
ClientSampleId :
HC-SOIL

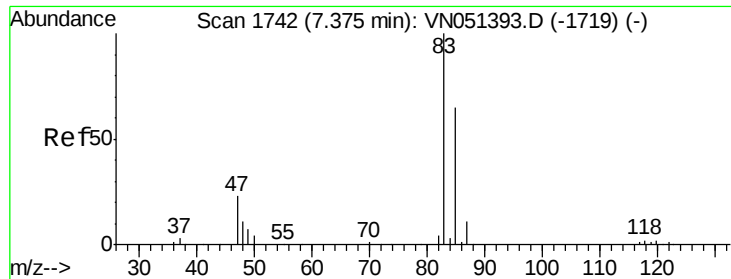
Tot Ion: 43 Resp: 1978
Ion Ratio Lower Upper
43 100
72 16.8 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.593 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN051464.D
Acq: 24 Sep 2018 16:22

Tgt Ion: 42 Resp: 1000
Ion Ratio Lower Upper
42 100
72 0.0 34.3 51.5#
71 0.0 32.2 48.4#

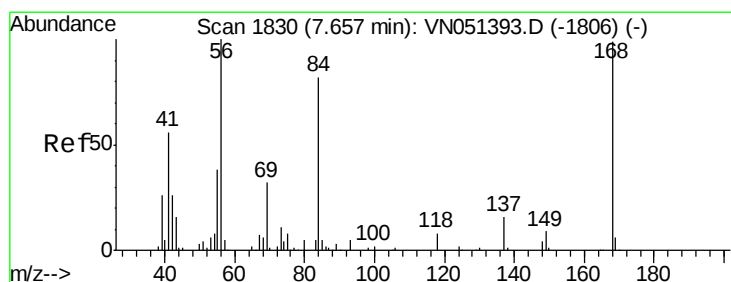
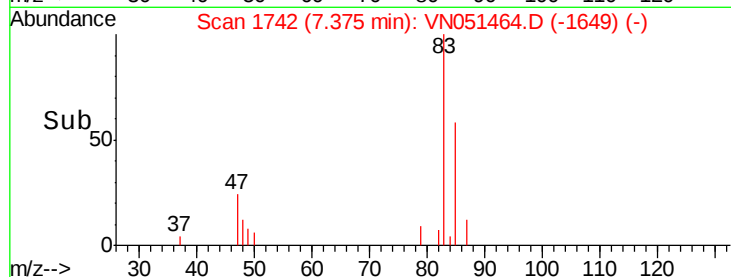
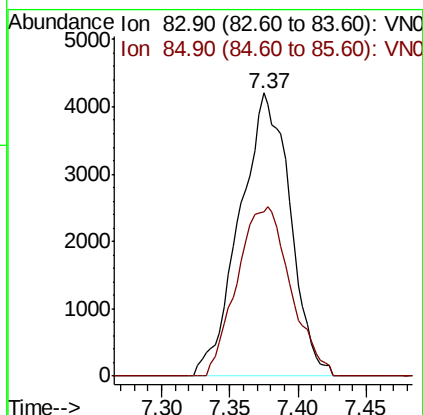
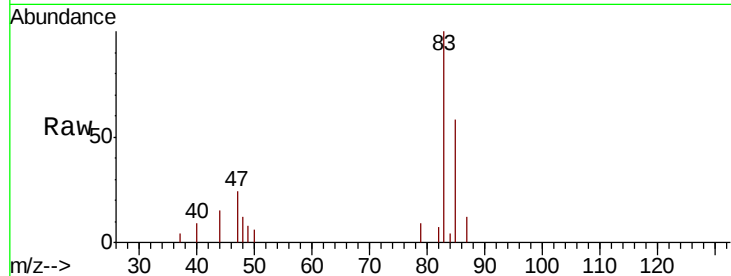




#30
Chloroform
Concen: 0.814 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051464.D
Acq: 24 Sep 2018 16:22

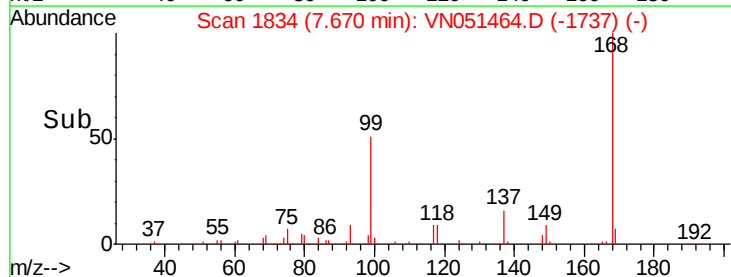
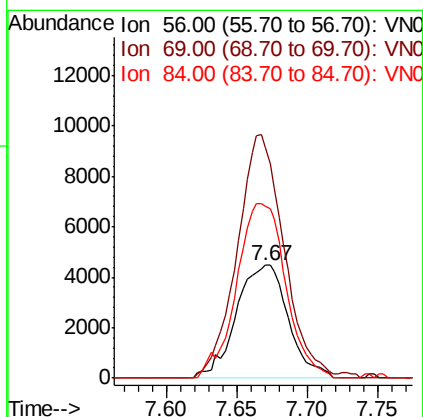
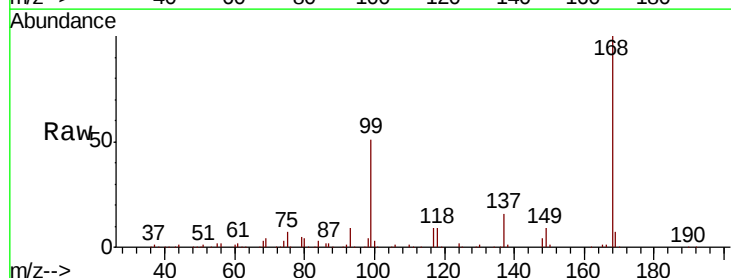
Instrument :
MSVOA_N
ClientSampleId :
HC-SOIL

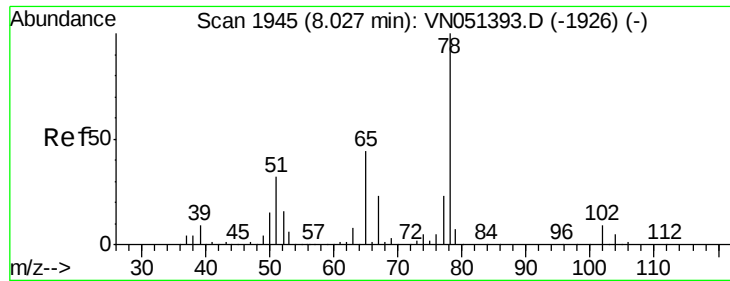
Tot Ion: 83 Resp: 10788
Ion Ratio Lower Upper
83 100
85 57.9 51.8 77.6



#31
Cyclohexane
Concen: 0.943 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051464.D
Acq: 24 Sep 2018 16:22

Tgt Ion: 56 Resp: 11548
Ion Ratio Lower Upper
56 100
69 205.6 25.8 38.6#
84 152.9 66.0 99.0#

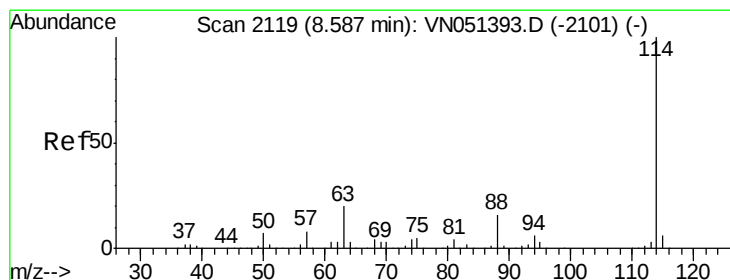
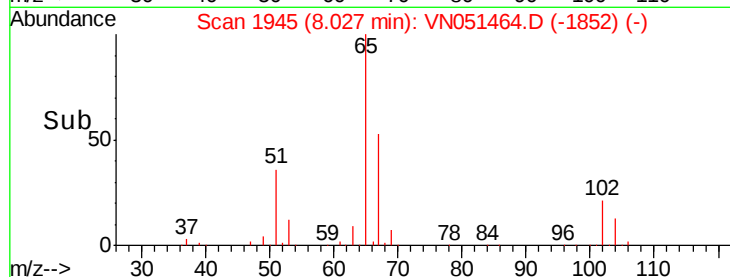
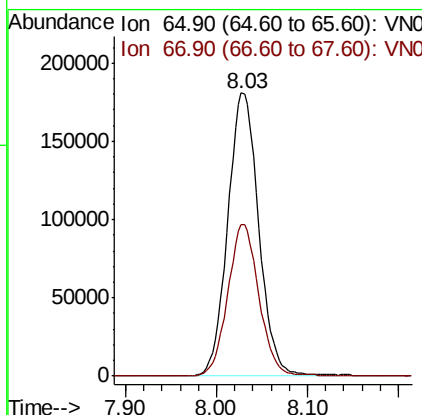
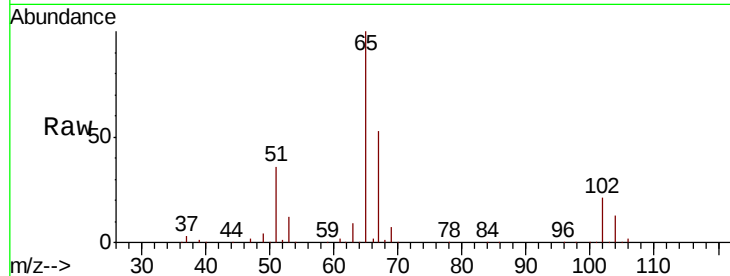




#33
 1,2-Dichloroethane-d4
 Concen: 55.063 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051464.D
 Acq: 24 Sep 2018 16:22

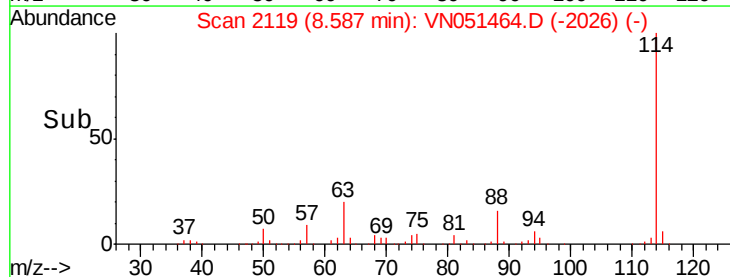
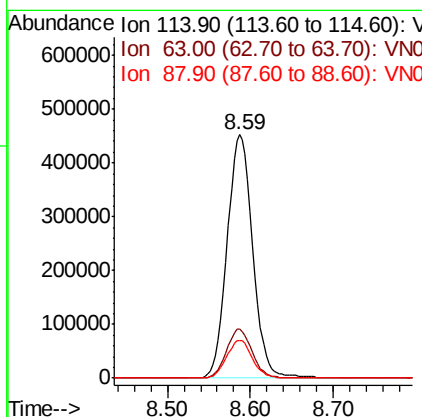
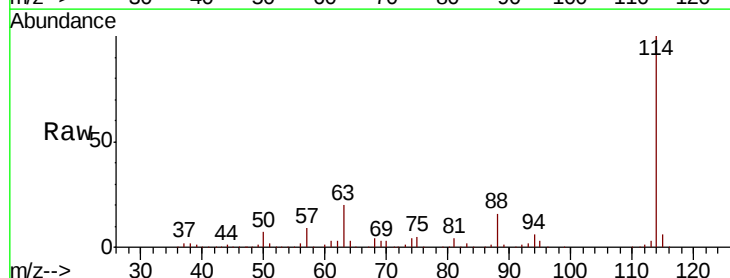
Instrument :
 MSVOA_N
 ClientSampleId :
 HC-SOIL

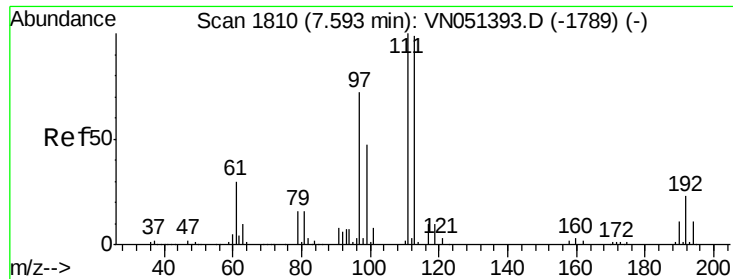
Tot Ion: 65 Resp: 428397
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051464.D
 Acq: 24 Sep 2018 16:22

Tgt Ion: 114 Resp: 971553
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.2
 88 15.6 0.0 31.4

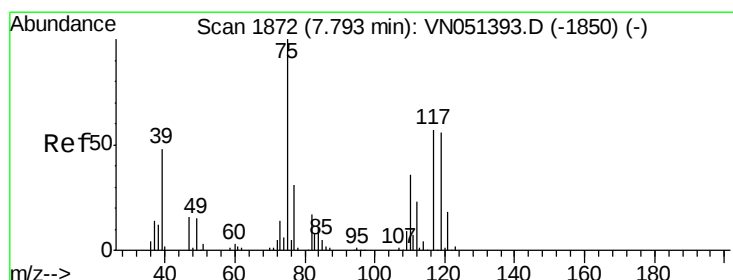
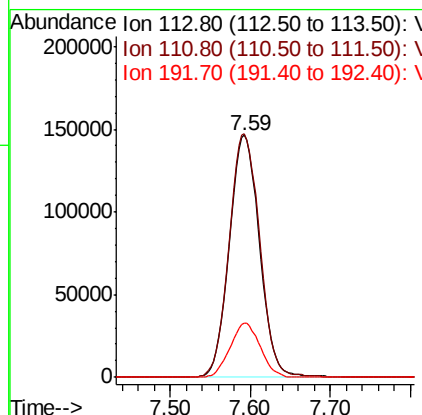
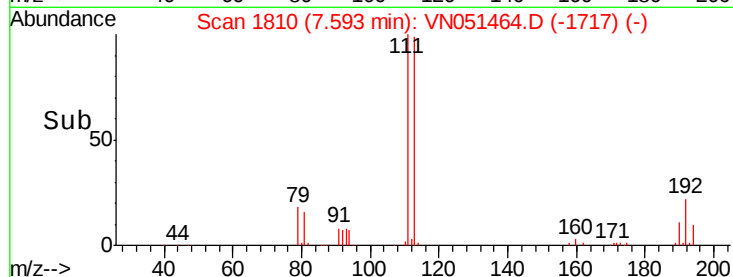
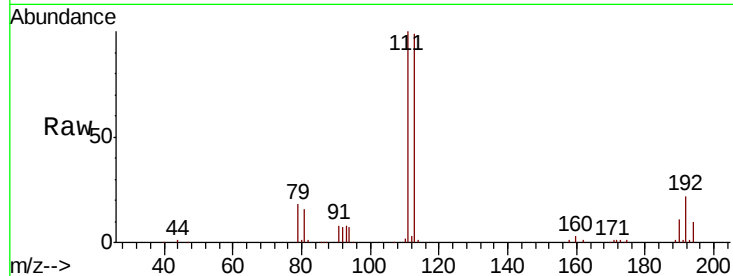




#35
 Dibromofluoromethane
 Concen: 48.313 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051464.D
 Acq: 24 Sep 2018 16:22

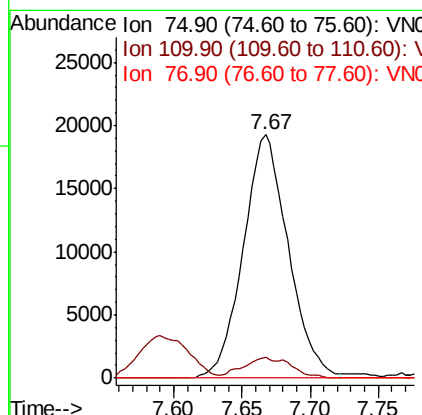
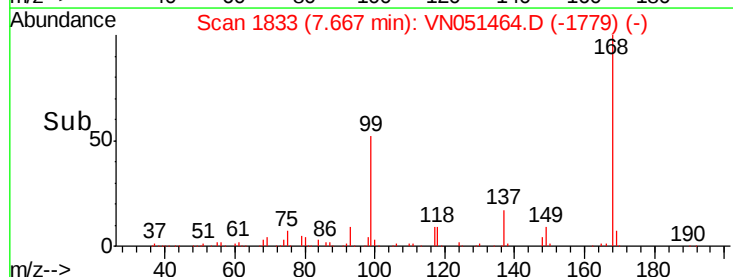
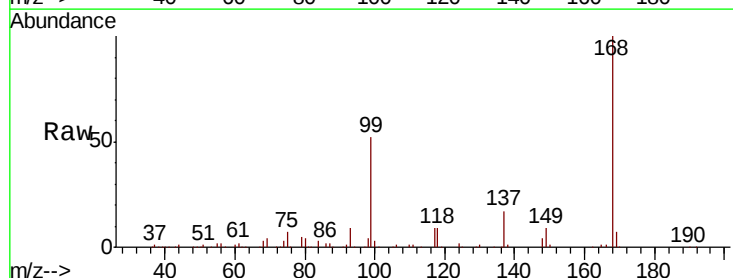
Instrument :
 MSVOA_N
 ClientSampleId :
 HC-SOIL

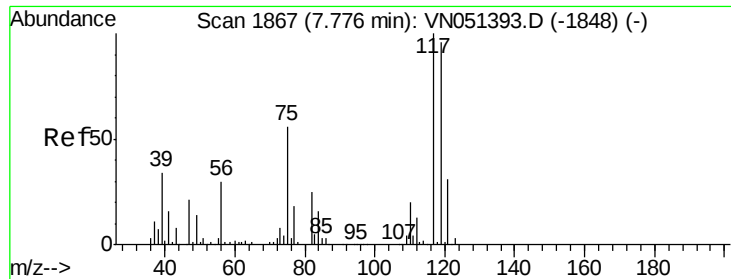
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.6	123.8
192	22.4	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.927 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051464.D
 Acq: 24 Sep 2018 16:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.904 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Instrument :

MSVOA_N

ClientSampled :

HC-SOIL

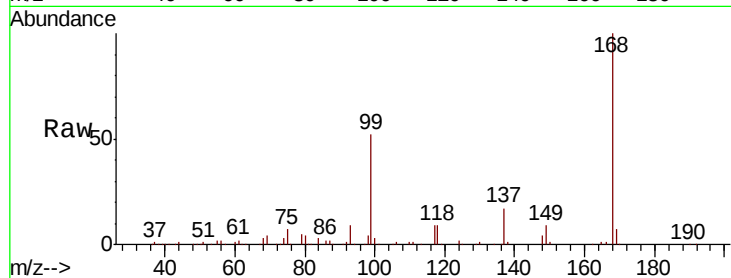
Tot Ion:117 Resp: 57714

Ion Ratio Lower Upper

117 100

119 4.1 76.9 115.3#

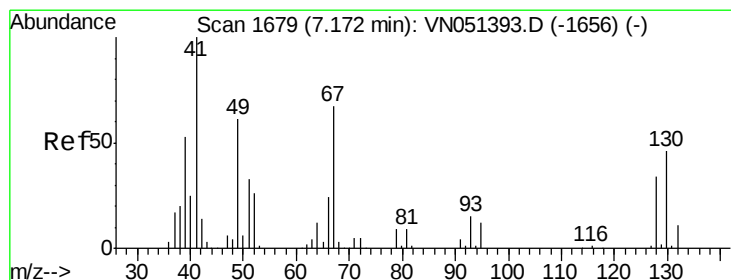
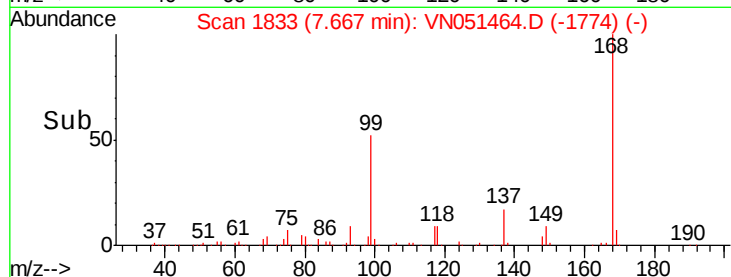
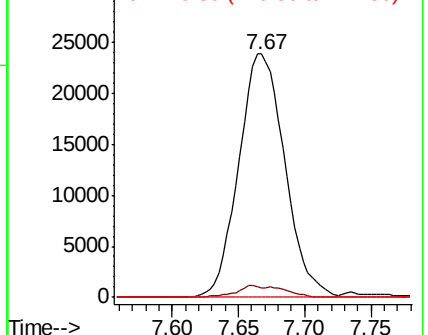
121 0.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.221 ug/l

RT: 7.24 min Scan# 1699

Delta R.T. 0.06 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Tgt Ion: 41 Resp: 791

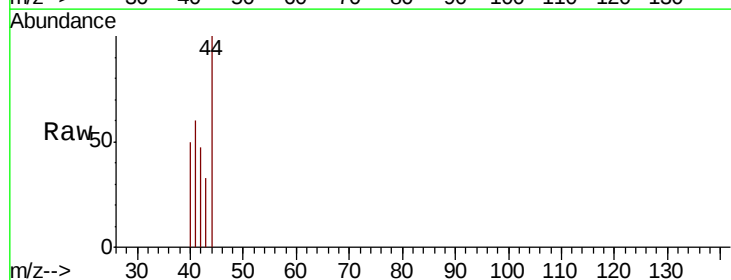
Ion Ratio Lower Upper

41 100

39 36.7 51.4 77.2#

67 0.0 66.8 100.2#

52 0.0 27.7 41.5#

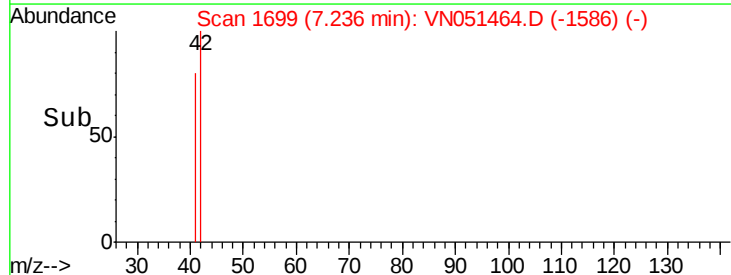
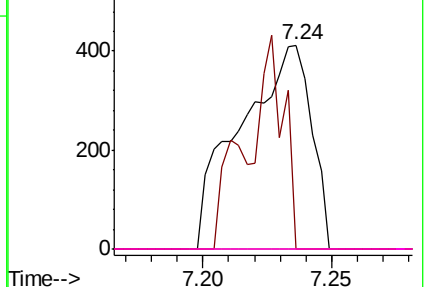


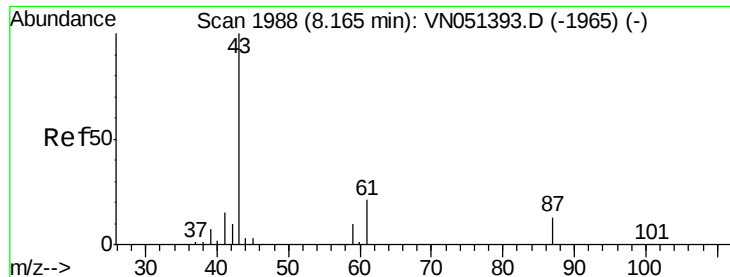
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 18.379 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Instrument :

MSVOA_N

ClientSampled :

HC-SOIL

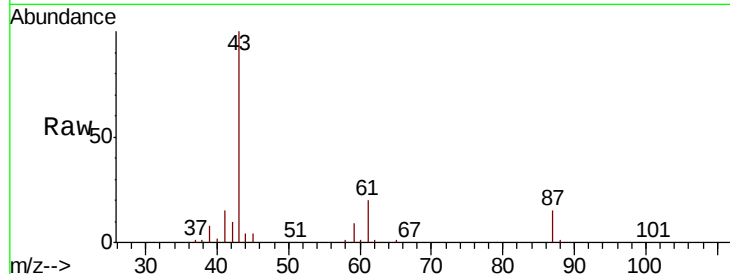
Tot Ion: 43 Resp: 214979

Ion Ratio Lower Upper

43 100

61 18.9 16.8 25.2

87 12.8 10.7 16.1

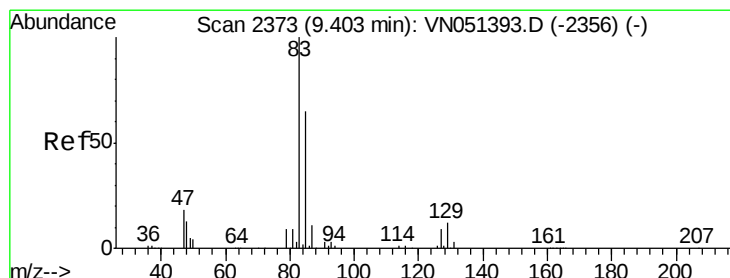
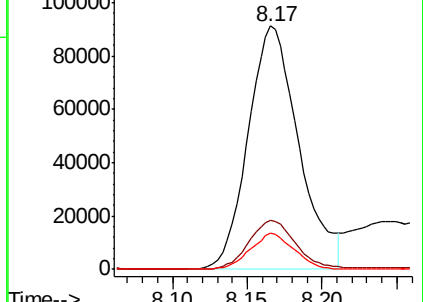
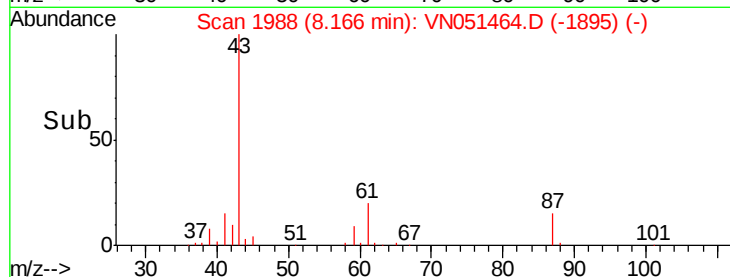


Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-1965) (-)

Ion 61.00 (60.70 to 61.70): VN051393.D (-1965) (-)

Ion 87.00 (86.70 to 87.70): VN051393.D (-1965) (-)

Time-->



#47

Bromodichloromethane

Concen: 0.283 ug/l

RT: 9.41 min Scan# 2375

Delta R.T. 0.01 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

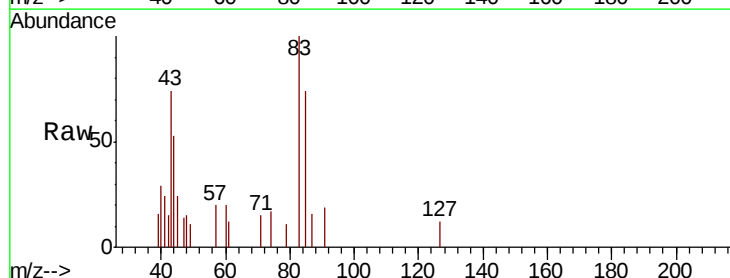
Tgt Ion: 83 Resp: 3176

Ion Ratio Lower Upper

83 100

85 74.0 51.8 77.6

127 12.2 7.4 11.2#

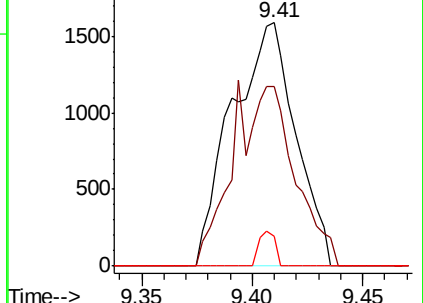
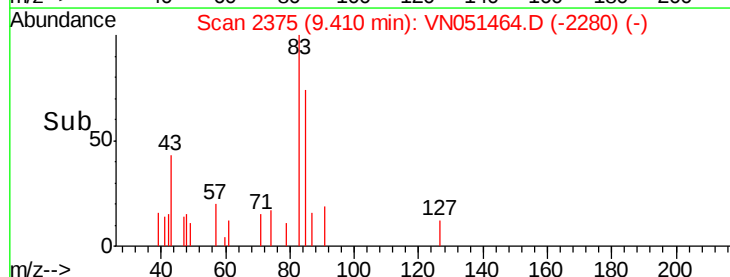


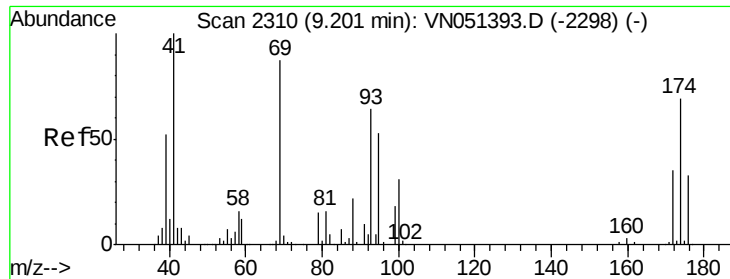
Abundance Ion 82.90 (82.60 to 83.60): VN051393.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN051393.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN051393.D (-2356) (-)

Time-->

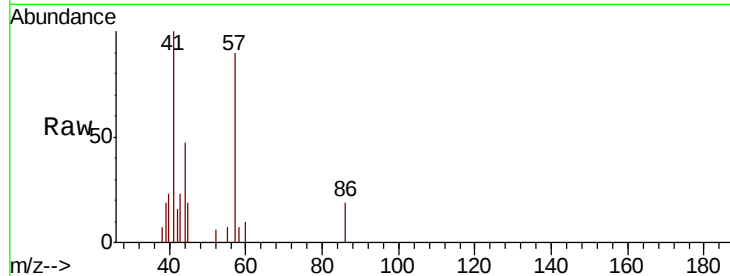




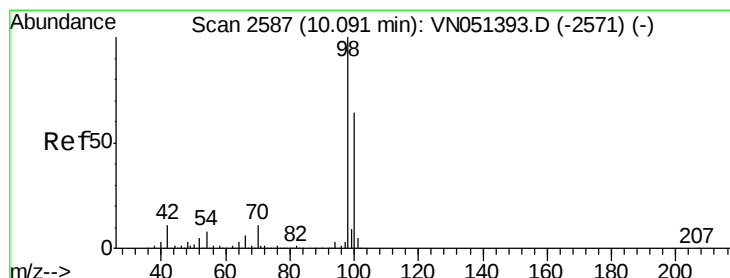
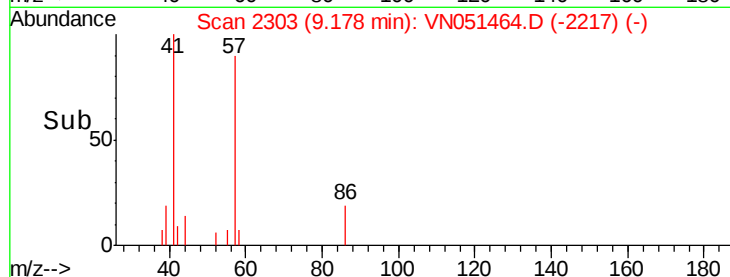
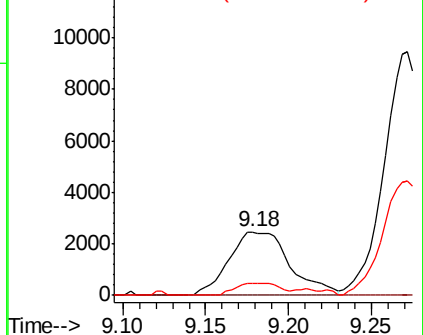
#48
Methyl methacrylate
Concen: 1.080 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051464.D
Acq: 24 Sep 2018 16:22

Instrument :
MSVOA_N
ClientSampleId :
HC-SOIL

Tot Ion: 41 Resp: 6296
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 14.3 43.8 65.8#

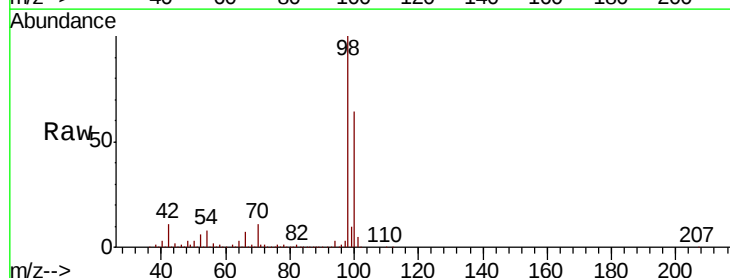


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

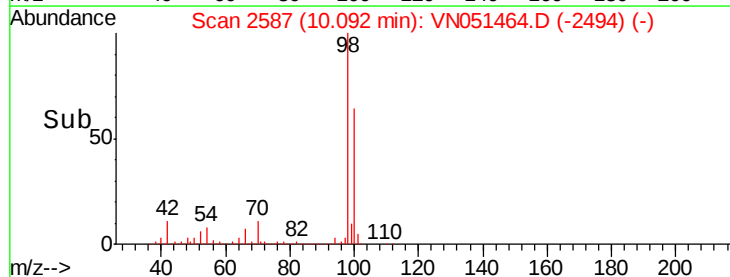
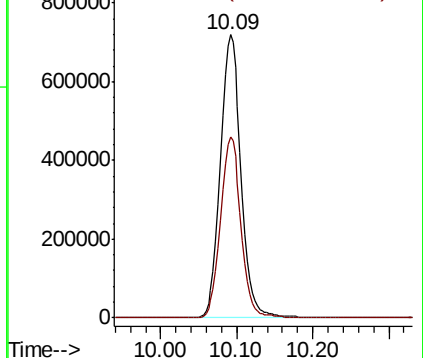


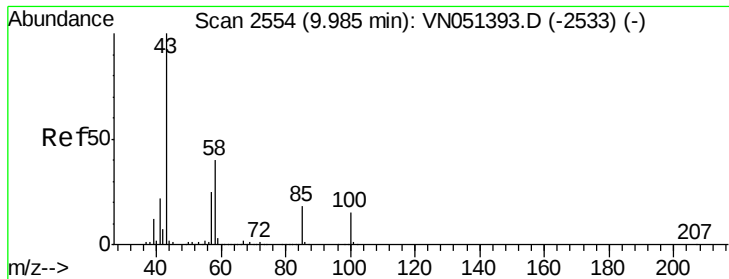
#50
Toluene-d8
Concen: 46.327 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051464.D
Acq: 24 Sep 2018 16:22

Tgt Ion: 98 Resp: 1355329
Ion Ratio Lower Upper
98 100
100 63.5 50.6 75.8



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





#51

4-Methyl-2-Pentanone

Concen: 0.244 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Instrument :

MSVOA_N

ClientSampled :

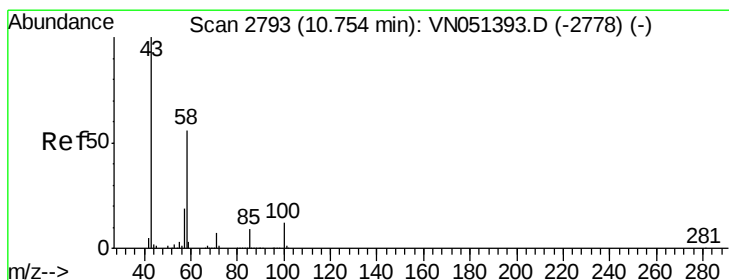
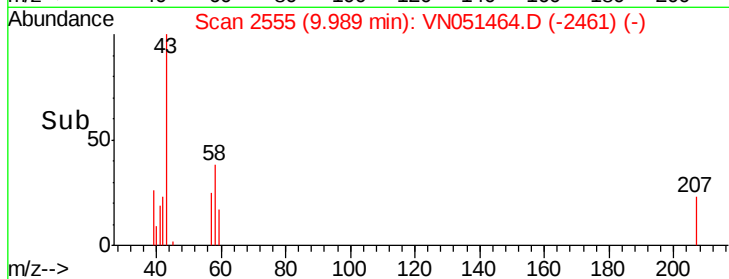
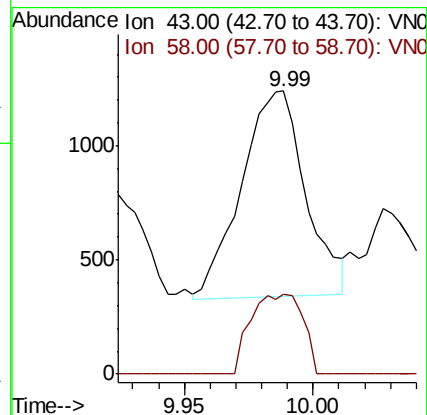
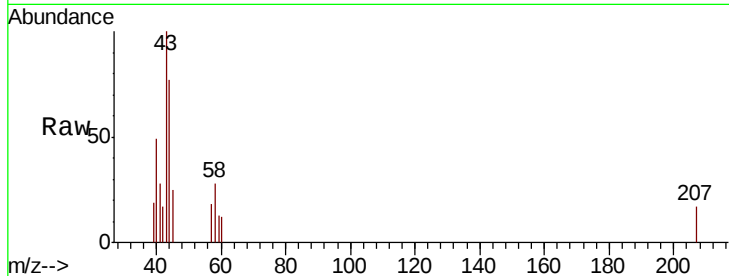
HC-SOIL

Tot Ion: 43 Resp: 1572

Ion Ratio Lower Upper

43 100

58 31.3 31.5 47.3#



#59

2-Hexanone

Concen: 2.794 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051464.D

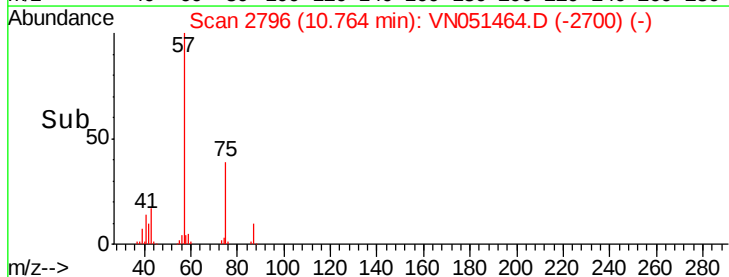
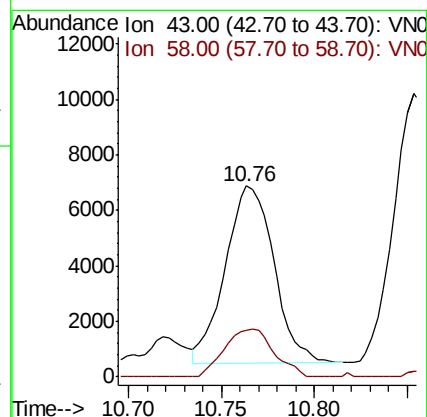
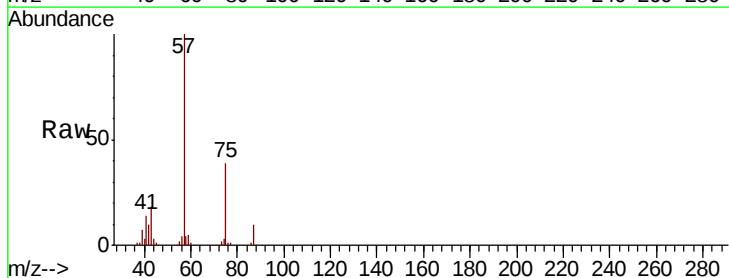
Acq: 24 Sep 2018 16:22

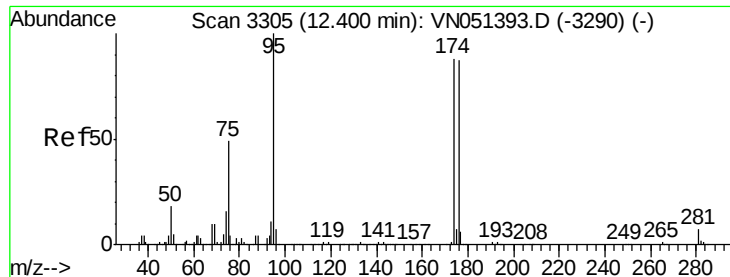
Tgt Ion: 43 Resp: 11650

Ion Ratio Lower Upper

43 100

58 27.3 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 39.307 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Instrument :

MSVOA_N

ClientSampleId :

HC-SOIL

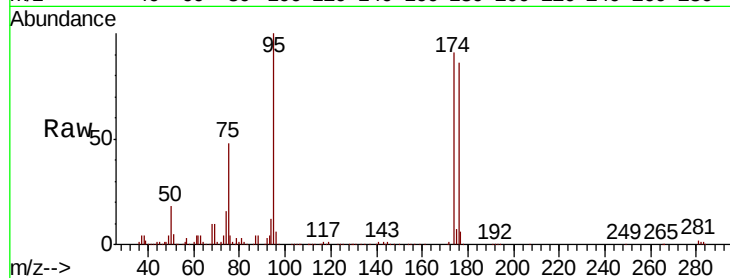
Tot Ion: 95 Resp: 372008

Ion Ratio Lower Upper

95 100

174 91.6 0.0 181.6

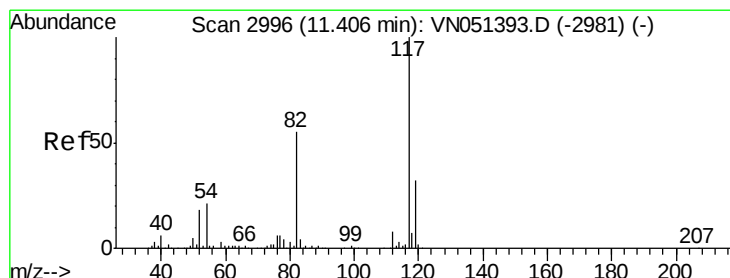
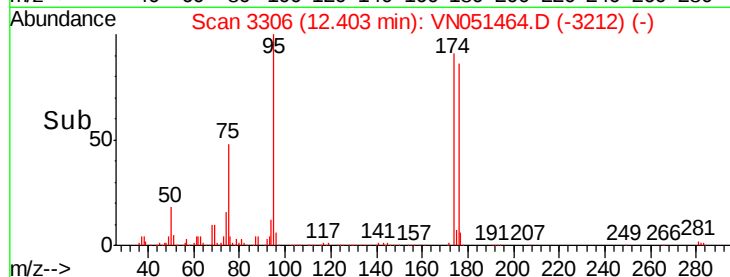
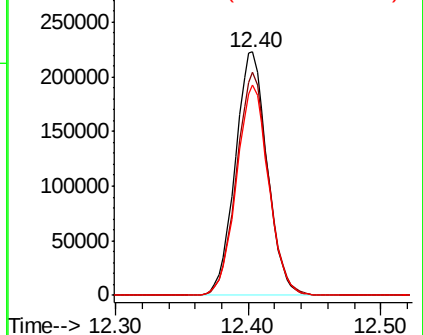
176 86.9 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

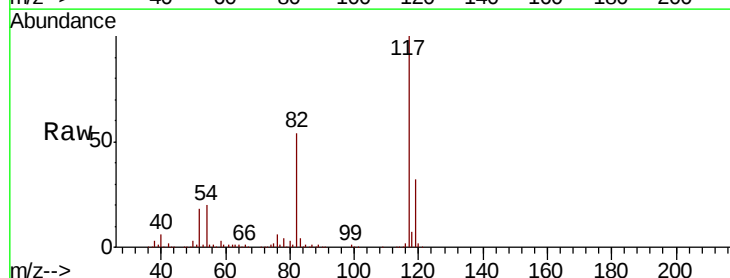
Tgt Ion: 117 Resp: 828159

Ion Ratio Lower Upper

117 100

82 54.4 44.2 66.2

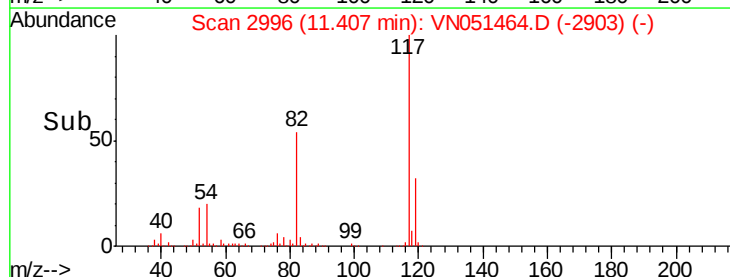
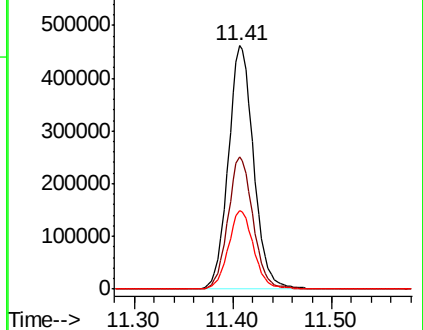
119 32.3 25.9 38.9

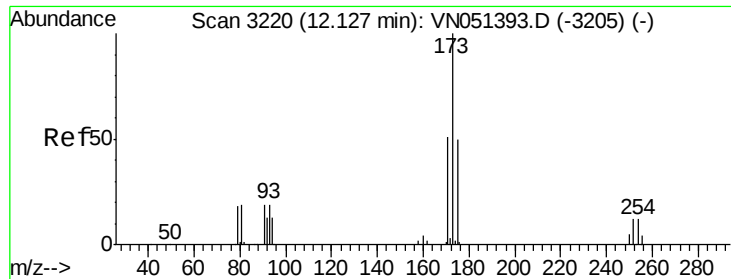


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)





#71

Bromoform

Concen: 0.411 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Instrument :

MSVOA_N

ClientSampled :

HC-SOIL

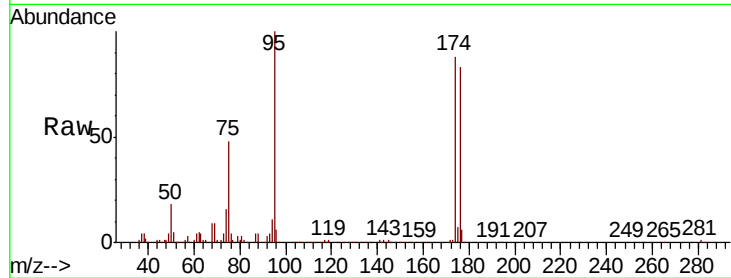
Tot Ion:173 Resp: 2255

Ion Ratio Lower Upper

173 100

175 957.8 24.8 74.3#

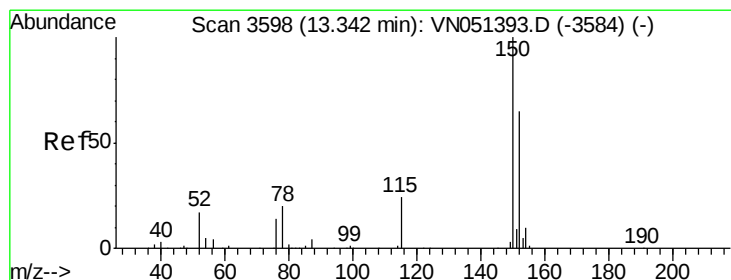
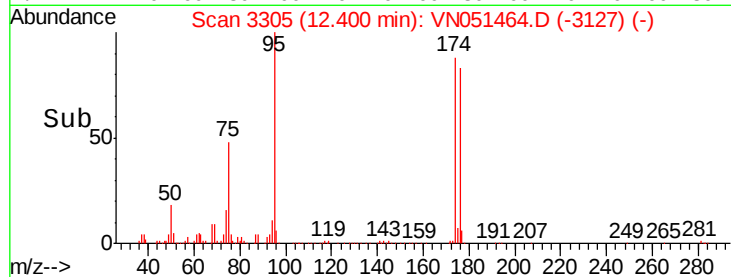
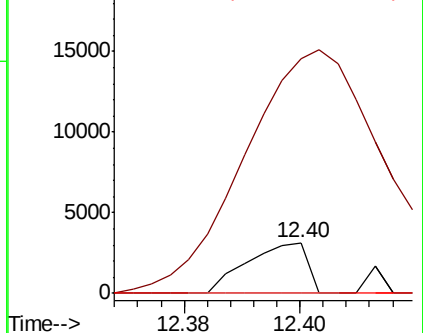
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

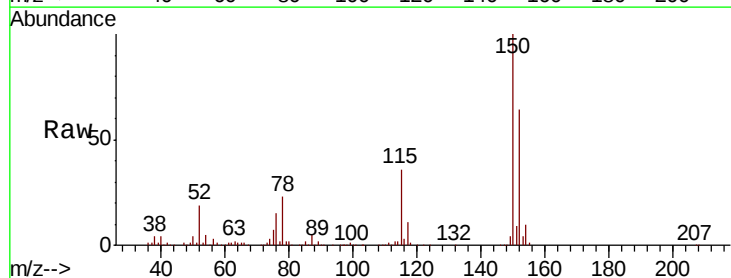
Tgt Ion:152 Resp: 302848

Ion Ratio Lower Upper

152 100

115 56.7 28.3 84.9

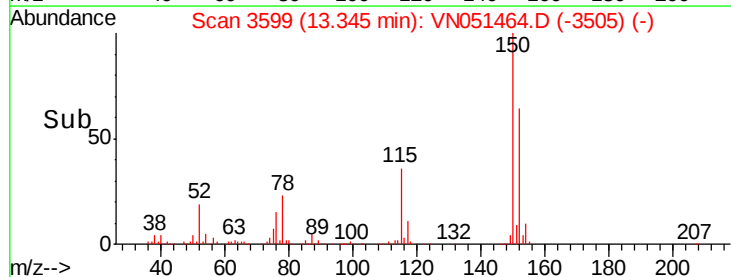
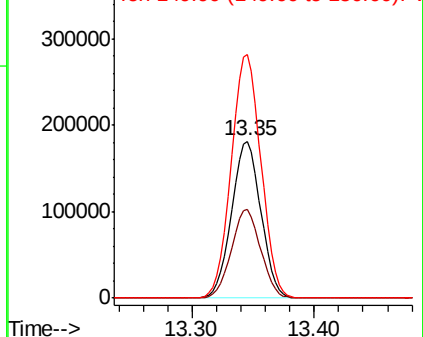
150 157.9 0.0 353.6

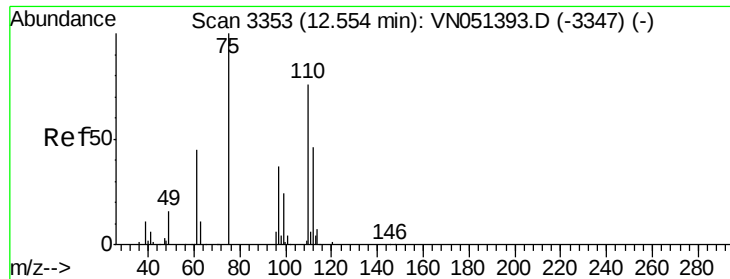


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.560 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Instrument :

MSVOA_N

ClientSampled :

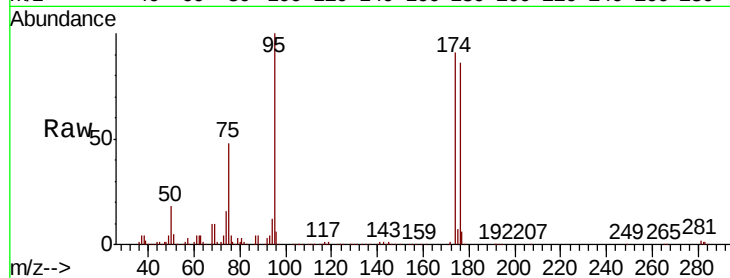
HC-SOIL

Tot Ion: 75 Resp: 183807

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

120000

100000

80000

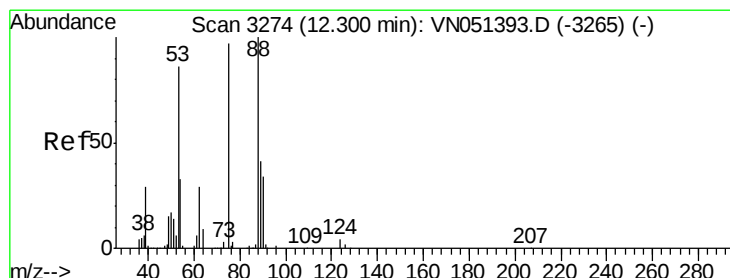
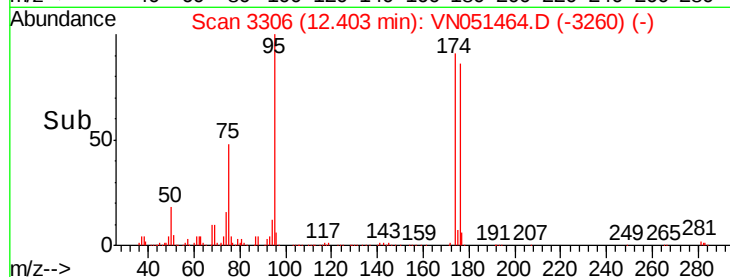
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 112.421 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

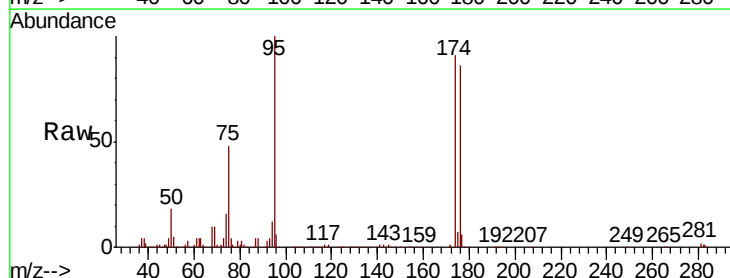
Tgt Ion: 75 Resp: 183807

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

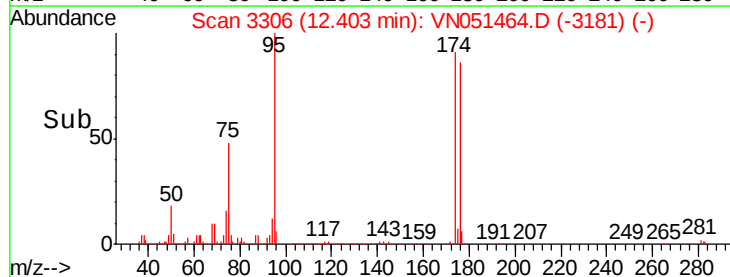
12.40

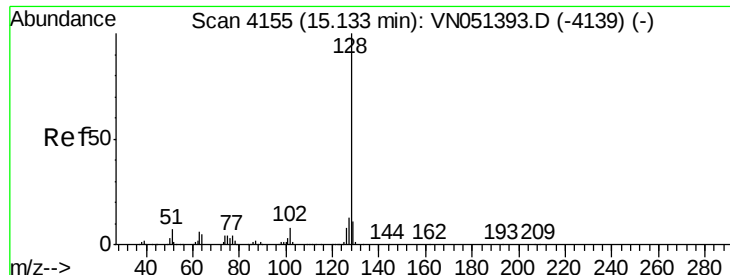
100000

50000

0

Time-->





#95

Naphthalene

Concen: 8.886 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051464.D

Acq: 24 Sep 2018 16:22

Instrument :

MSVOA_N

ClientSampleId :

HC-SOIL

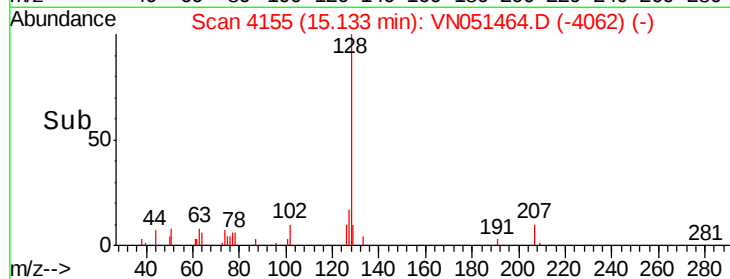
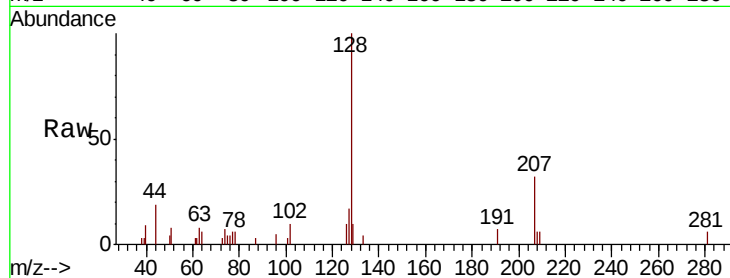
Tot Ion:128 Resp: 11295

Ion Ratio Lower Upper

128 100

127 17.0 10.5 15.7#

129 9.8 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

