

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100118\
 Data File : VN051641.D
 Acq On : 1 Oct 2018 16:31
 Operator : MD\SY
 Sample : J5178-01
 Misc : Sample
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-21

Quant Time: Oct 02 01:02:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	96666	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	471163	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	401329	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	211622	31.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.80%
60) 4-Bromofluorobenzene	12.40	95	133326	21.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	72.00%
63) Toluene-d8	10.09	98	541714	28.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.37%

Target Compounds

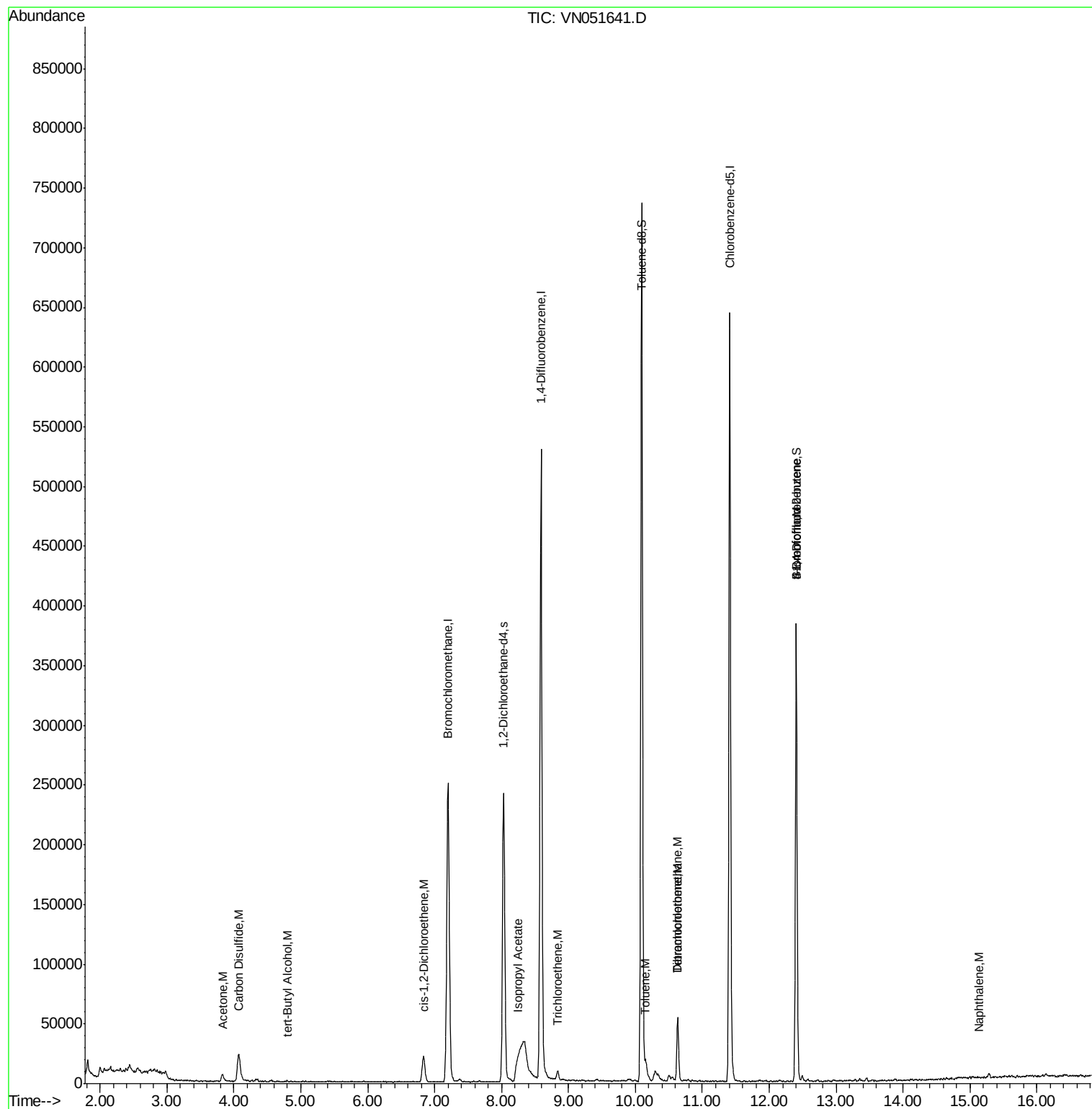
					Ovalue
15) Acetone	3.82	58	2283	4.221 ug/l #	59
16) Carbon Disulfide	4.06	76	6541	0.348 ug/l #	90
22) cis-1,2-Dichloroethene	6.83	96	12102	1.788 ug/l	90
23) tert-Butyl Alcohol	4.81	59	456	1.156 ug/l #	100
37) Trichloroethene	8.84	130	3094	0.506 ug/l	96
44) Isopropyl Acetate	8.23	43	9862	1.088 ug/l #	59
53) Dibromochloromethane	10.63	129	12122	2.076 ug/l #	10
56) Bromoform	12.41	173	1163	0.300 ug/l #	1
61) Tetrachloroethene	10.63	164	13078	2.302 ug/l	91
62) Toluene	10.16	91	7534	0.306 ug/l	97
77) t-1,4-Dichloro-2-butene	12.40	75	65153	40.237 ug/l #	11
91) Naphthalene	15.14	128	60	8.277 ug/l #	68

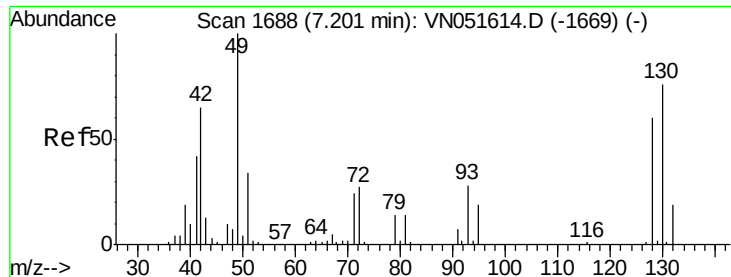
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100118\
Data File : VN051641.D
Acq On : 1 Oct 2018 16:31
Operator : MD\SY
Sample : J5178-01
Misc : Sample
ALS Vial : 17 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
2-AVE-21

Quant Time: Oct 02 01:02:48 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Sep 29 01:07:29 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN051641.D

Acq: 1 Oct 2018 16:31

Instrument :

MSVOA_N

ClientSampled :

2-AVE-21

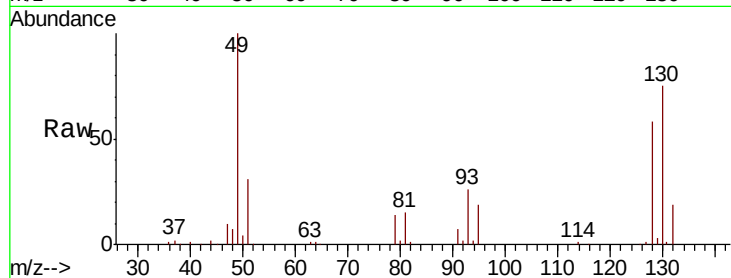
Tot Ion:128 Resp: 96666

Ion Ratio Lower Upper

128 100

49 171.0 0.0 426.8

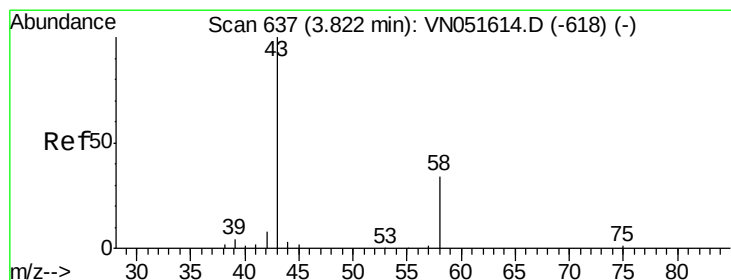
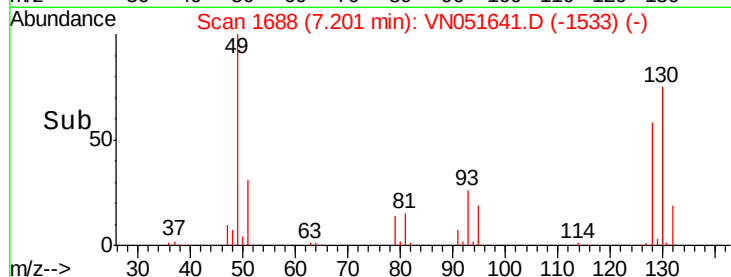
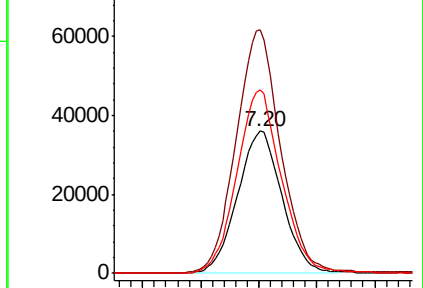
130 128.6 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 4.221 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051641.D

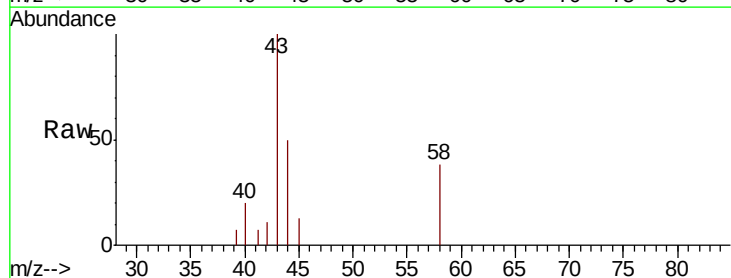
Acq: 1 Oct 2018 16:31

Tgt Ion: 58 Resp: 2283

Ion Ratio Lower Upper

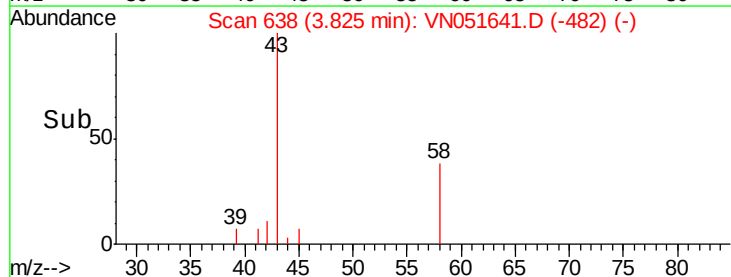
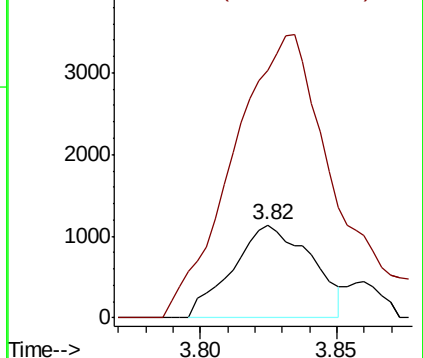
58 100

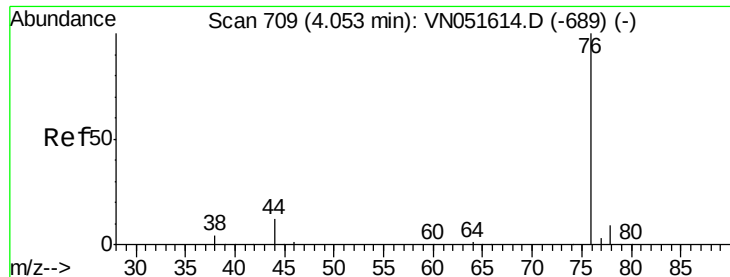
43 216.8 238.0 357.0#



Abundance Ion 58.00 (57.70 to 58.70): VN

Ion 43.00 (42.70 to 43.70): VN





#16

Carbon Disulfide

Concen: 0.348 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051641.D

Acq: 1 Oct 2018 16:31

Instrument :

MSVOA_N

ClientSampled :

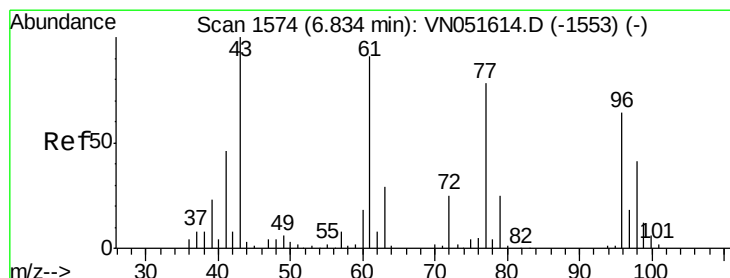
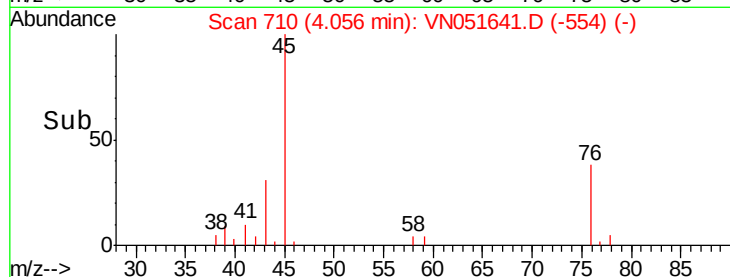
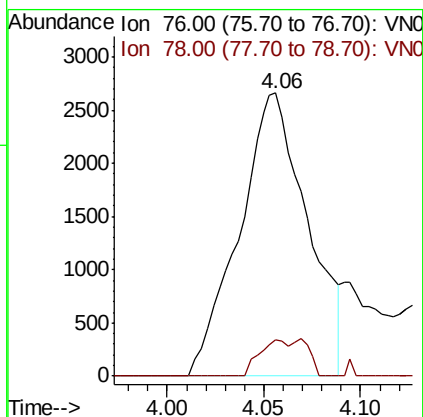
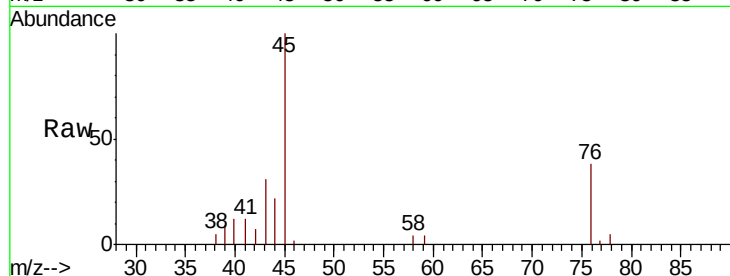
2-AVE-21

Tot Ion: 76 Resp: 6541

Ion Ratio Lower Upper

76 100

78 12.7 7.3 10.9#



#22

cis-1,2-Dichloroethene

Concen: 1.788 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN051641.D

Acq: 1 Oct 2018 16:31

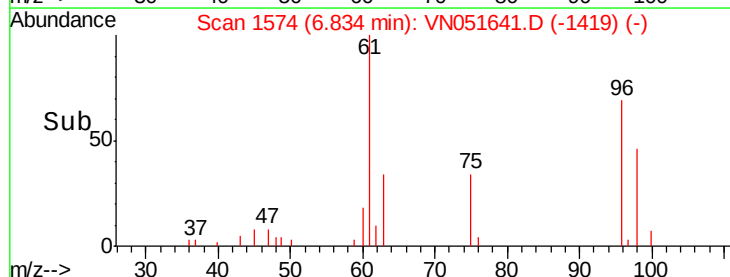
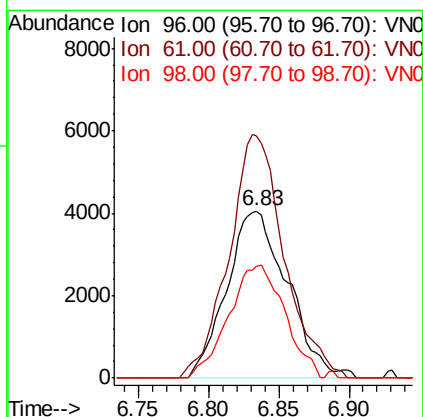
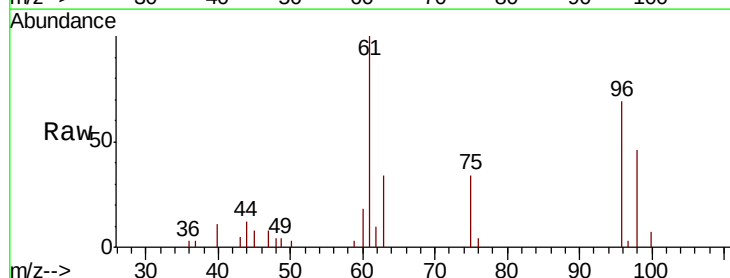
Tgt Ion: 96 Resp: 12102

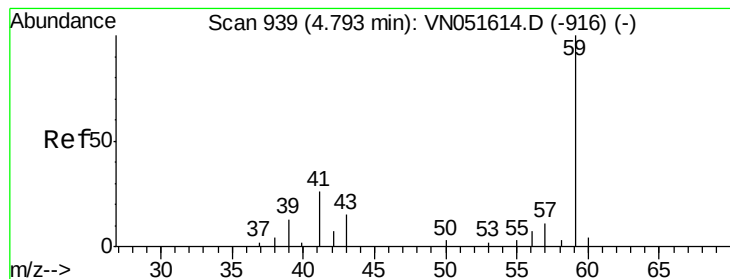
Ion Ratio Lower Upper

96 100

61 133.8 120.4 180.6

98 62.9 51.4 77.0





#23

tert-Butyl Alcohol

Concen: 1.156 ug/l

RT: 4.81 min Scan# 943

Delta R.T. 0.01 min

Lab File: VN051641.D

Acq: 1 Oct 2018 16:31

Instrument :

MSVOA_N

ClientSampled :

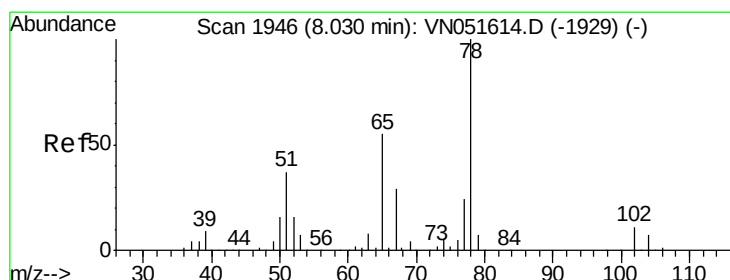
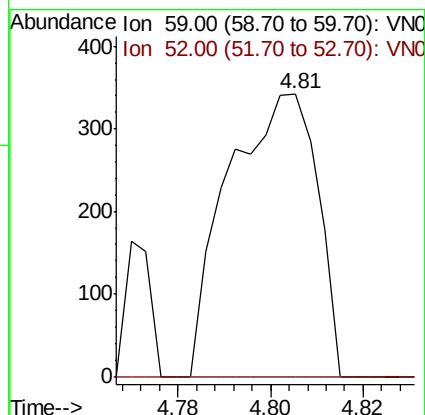
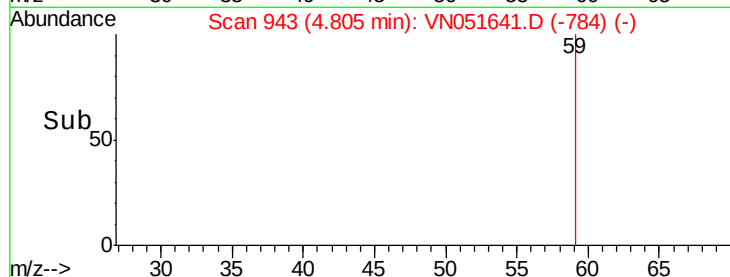
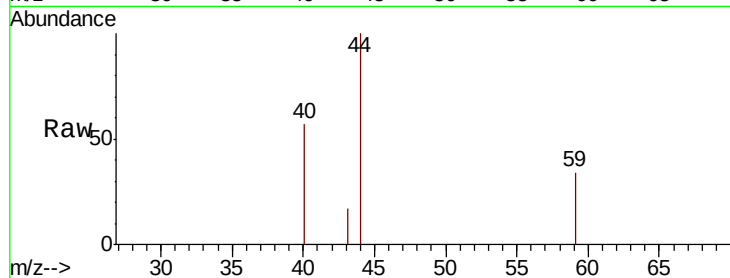
2-AVE-21

Tot Ion: 59 Resp: 456

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1946

Delta R.T. -0.00 min

Lab File: VN051641.D

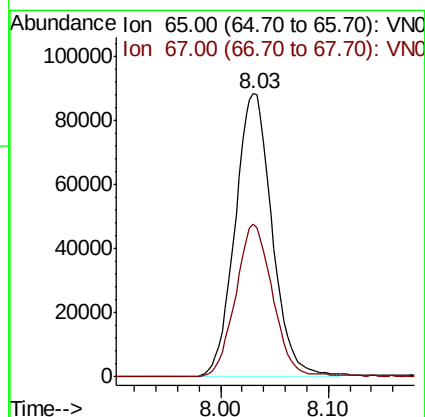
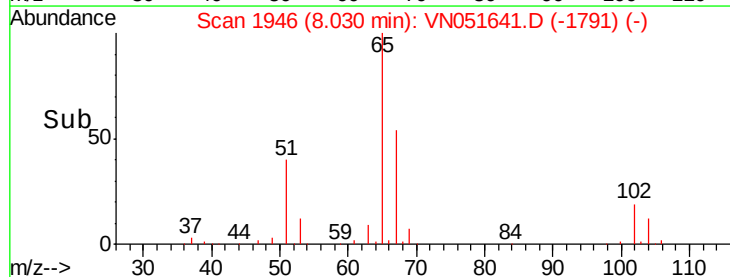
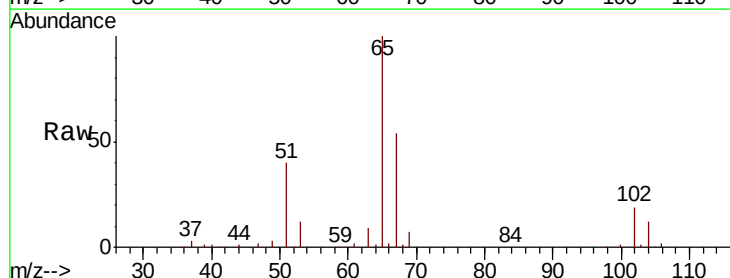
Acq: 1 Oct 2018 16:31

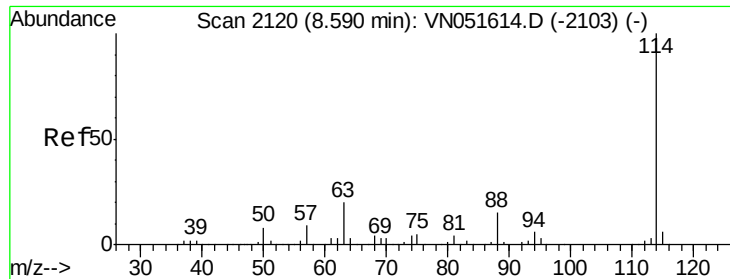
Tgt Ion: 65 Resp: 211622

Ion Ratio Lower Upper

65 100

67 53.5 43.1 64.7

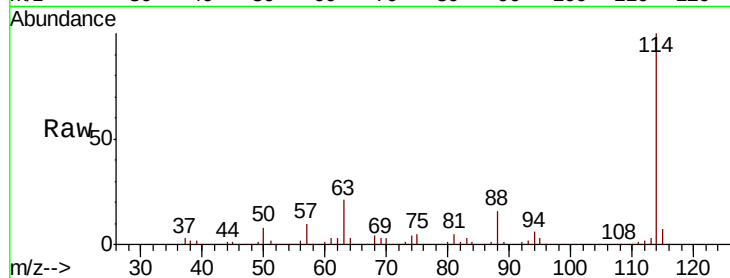




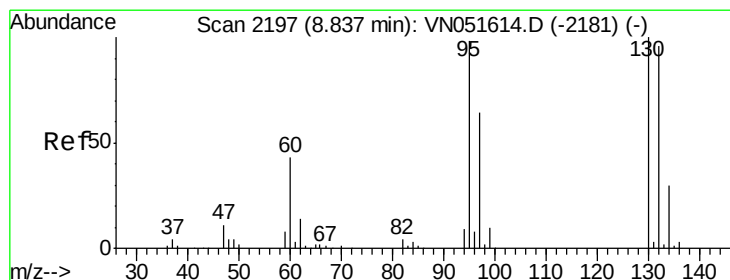
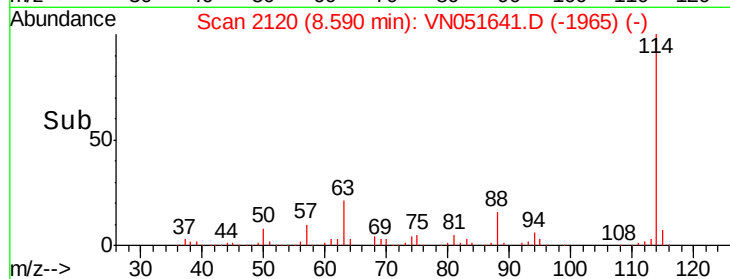
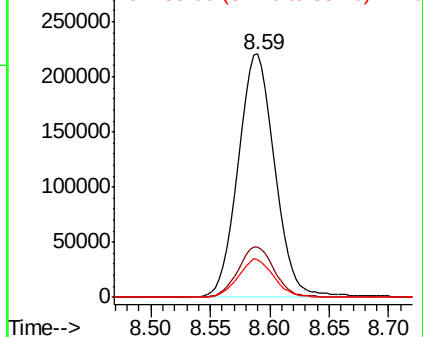
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. -0.00 min
 Lab File: VN051641.D
 Acq: 1 Oct 2018 16:31

Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-21

Tot Ion:114 Resp: 471163
 Ion Ratio Lower Upper
 114 100
 63 20.6 16.4 24.6
 88 15.4 12.6 18.8

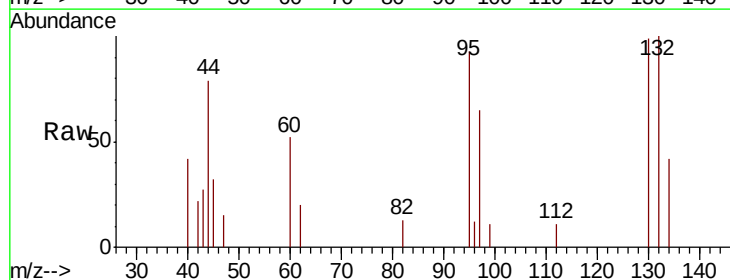


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

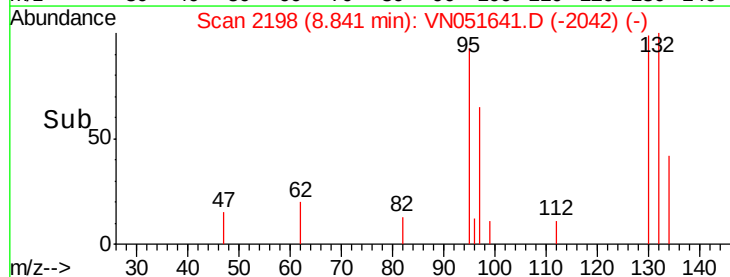
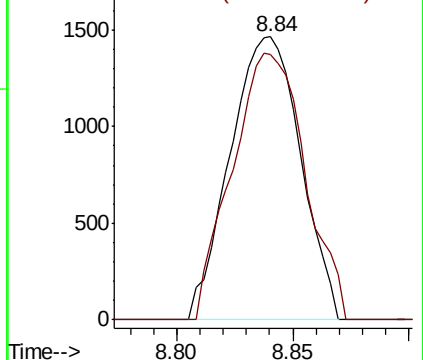


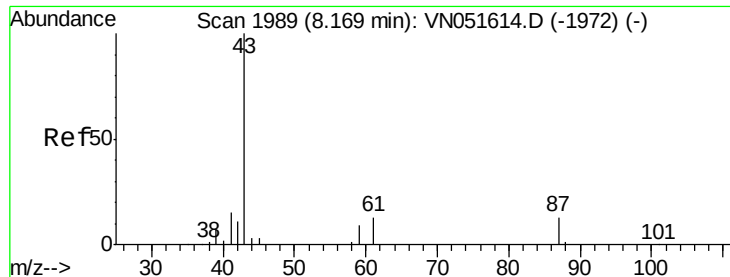
#37
 Trichloroethene
 Concen: 0.506 ug/l
 RT: 8.84 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VN051641.D
 Acq: 1 Oct 2018 16:31

Tgt Ion:130 Resp: 3094
 Ion Ratio Lower Upper
 130 100
 95 94.0 78.4 117.6



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN





#44

Isopropyl Acetate

Concen: 1.088 ug/l

RT: 8.23 min Scan# 2009

Delta R.T. 0.06 min

Lab File: VN051641.D

Acq: 1 Oct 2018 16:31

Instrument :

MSVOA_N

ClientSampled :

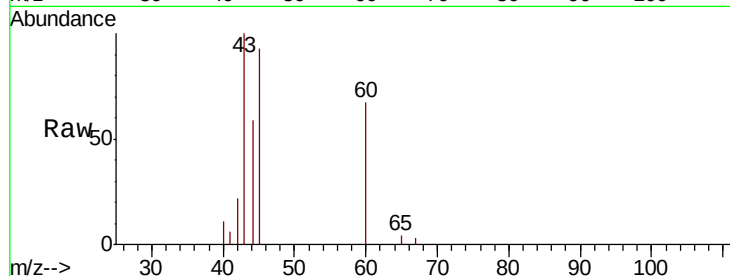
2-AVE-21

Tot Ion: 43 Resp: 9862

Ion Ratio Lower Upper

43 100

61 0.6 15.4 23.0#



Abundance Ion 43.00 (42.70 to 43.70): VN051641.D (-1972) (-)

Ion 61.00 (60.70 to 61.70): VN051641.D (-1972) (-)

8000

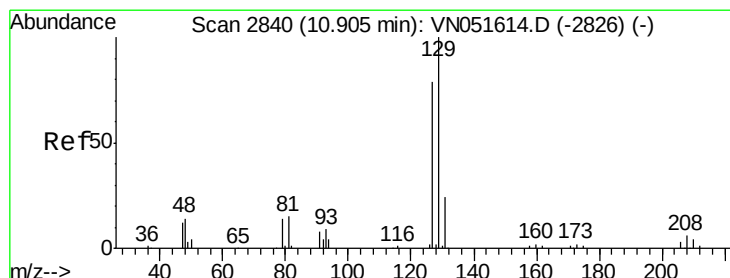
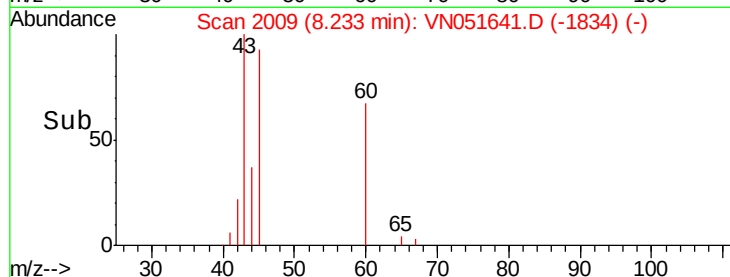
6000

4000

2000

0

Time--> 8.16 8.18 8.20 8.22 8.24



#53

Dibromochloromethane

Concen: 2.076 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN051641.D

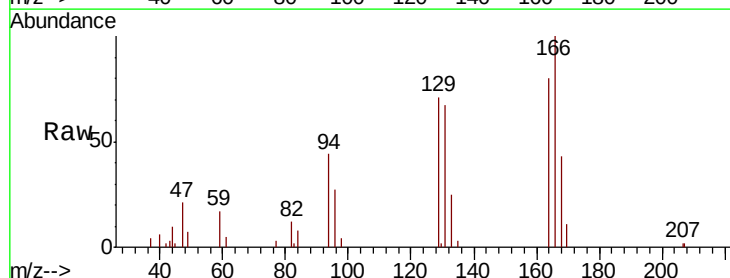
Acq: 1 Oct 2018 16:31

Tgt Ion: 129 Resp: 12122

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 129.00 (128.70 to 129.70): VN051641.D (-2826) (-)

Ion 127.00 (126.70 to 127.70): VN051641.D (-2826) (-)

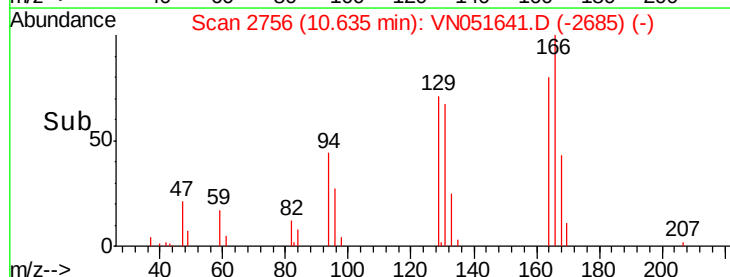
6000

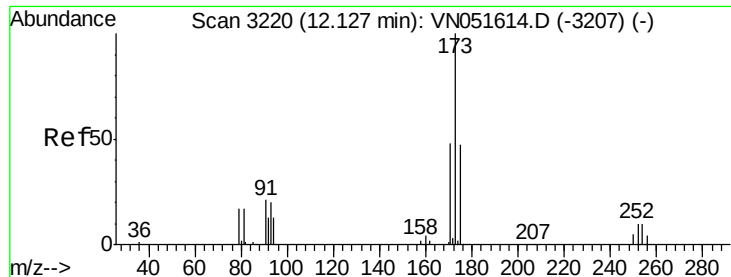
4000

2000

0

Time--> 10.60 10.63 10.66

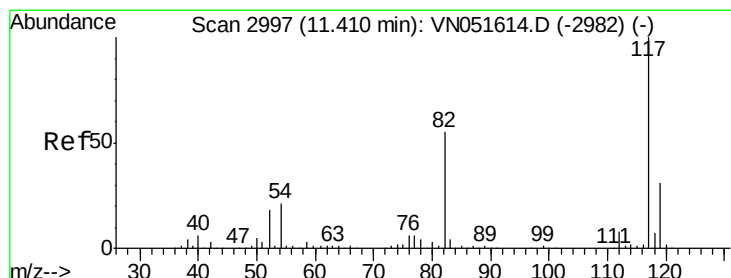
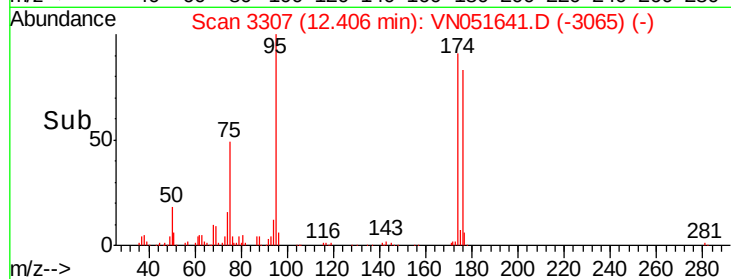
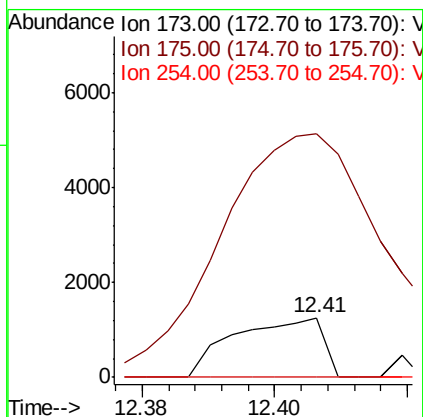
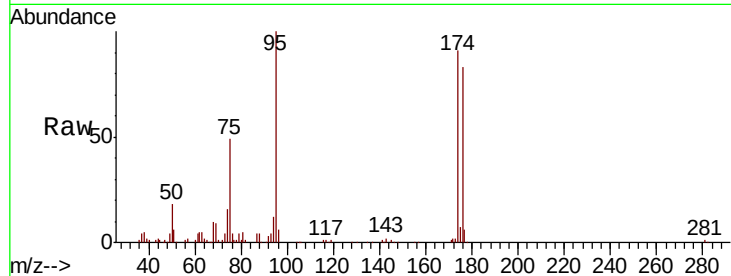




#56
Bromoform
Concen: 0.300 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN051641.D
Acq: 1 Oct 2018 16:31

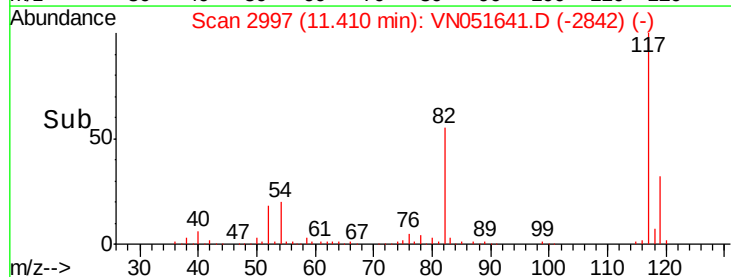
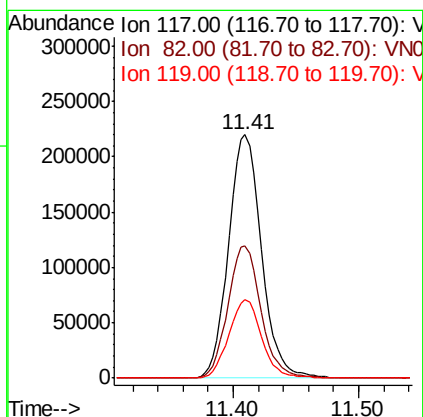
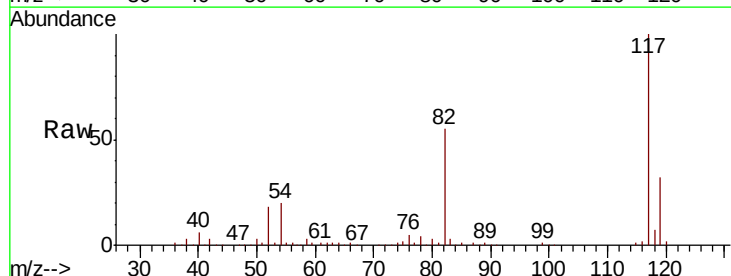
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-21

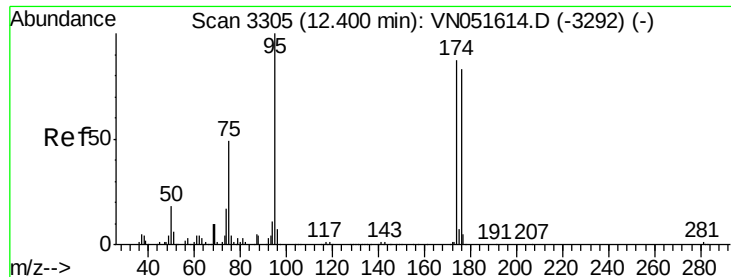
Tot Ion:173 Resp: 1163
Ion Ratio Lower Upper
173 100
175 788.0 39.0 58.4#
254 0.0 8.7 13.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN051641.D
Acq: 1 Oct 2018 16:31

Tgt Ion:117 Resp: 401329
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 32.0 25.2 37.8





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051641.D

Acq: 1 Oct 2018 16:31

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-21

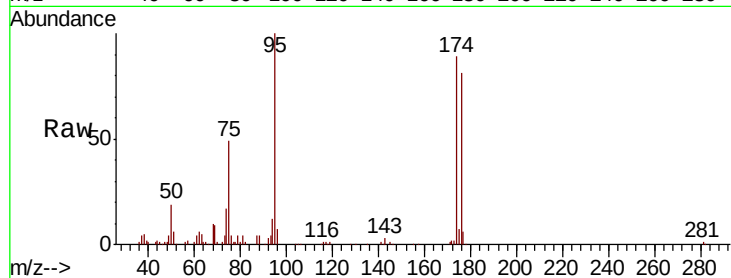
Tot Ion: 95 Resp: 133326

Ion Ratio Lower Upper

95 100

174 89.6 71.2 106.8

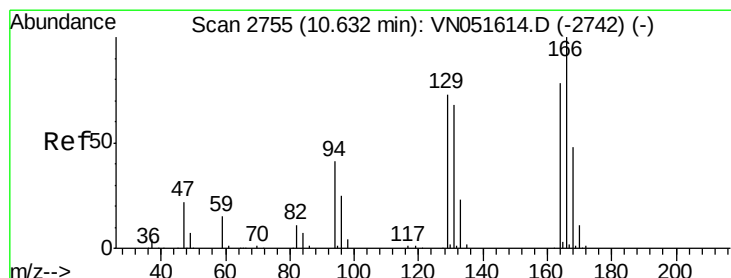
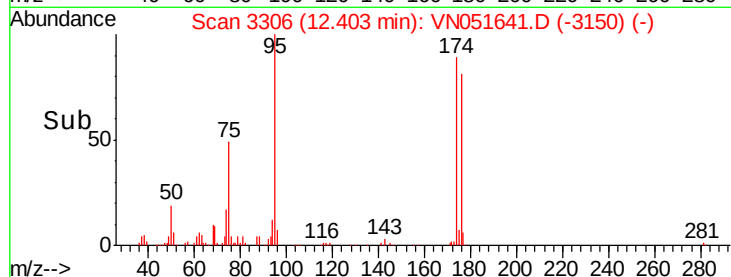
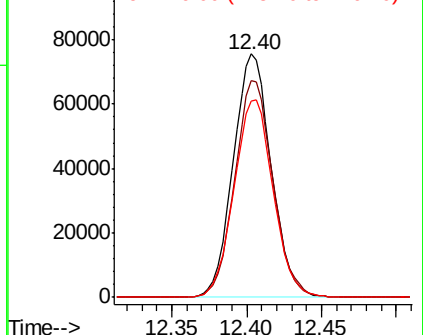
176 83.6 67.8 101.8



Abundance Ion 95.00 (94.70 to 95.70): VN051641.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN051641.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN051641.D (-3292) (-)



#61

Tetrachloroethene

Concen: 2.302 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN051641.D

Acq: 1 Oct 2018 16:31

Tgt Ion: 164 Resp: 13078

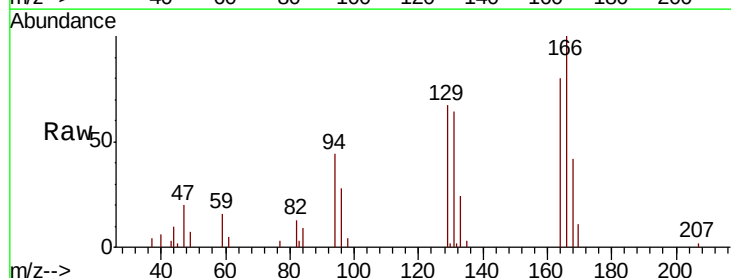
Ion Ratio Lower Upper

164 100

166 124.7 103.1 154.7

129 80.1 75.3 112.9

131 79.4 70.8 106.2

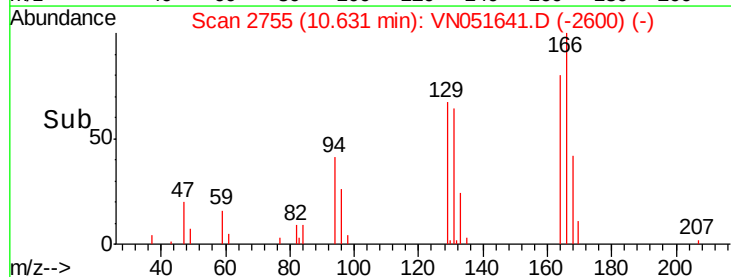
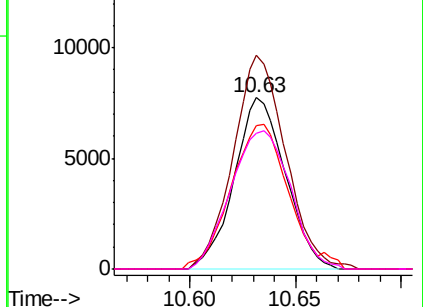


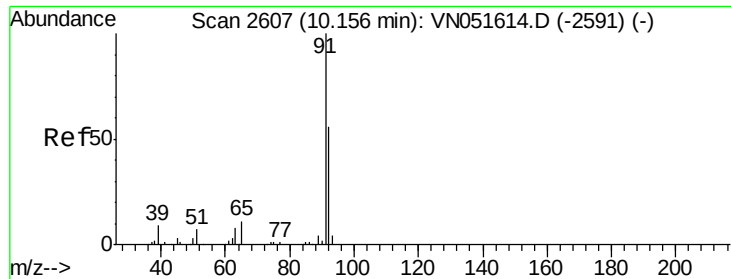
Abundance Ion 163.85 (163.55 to 164.55): VN051641.D (-2742) (-)

Ion 165.80 (165.50 to 166.50): VN051641.D (-2742) (-)

Ion 128.90 (128.60 to 129.60): VN051641.D (-2742) (-)

Ion 130.90 (130.60 to 131.60): VN051641.D (-2742) (-)





#62

Toluene

Concen: 0.306 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051641.D

Acq: 1 Oct 2018 16:31

Instrument :

MSVOA_N

ClientSampleId :

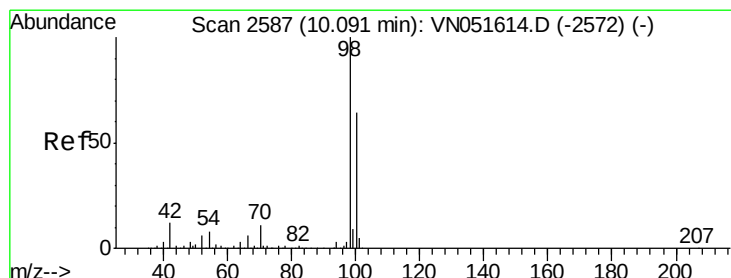
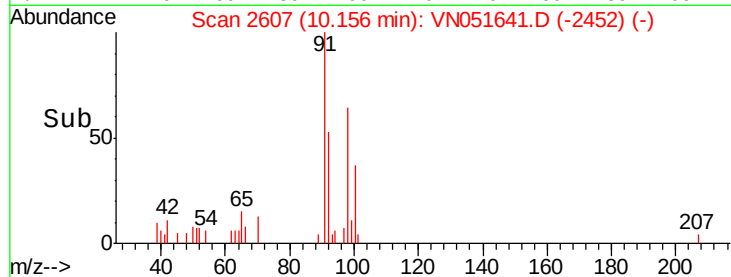
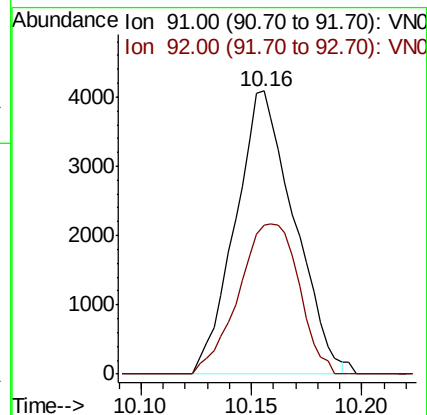
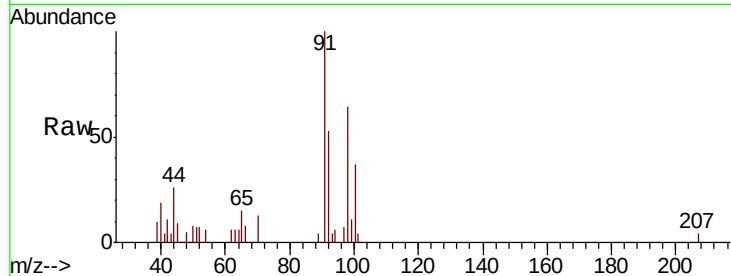
2-AVE-21

Tot Ion: 91 Resp: 7534

Ion Ratio Lower Upper

91 100

92 54.5 45.3 67.9



#63

Toluene-d8

Concen: 0.306 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051641.D

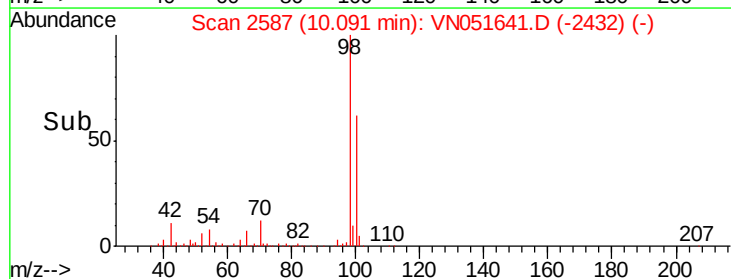
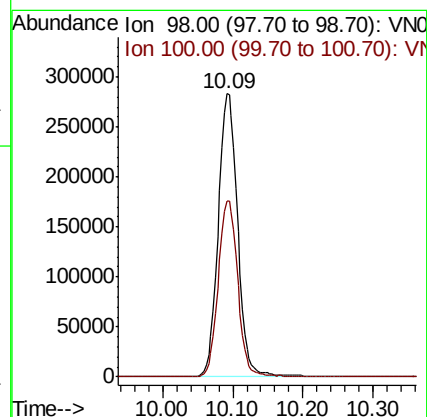
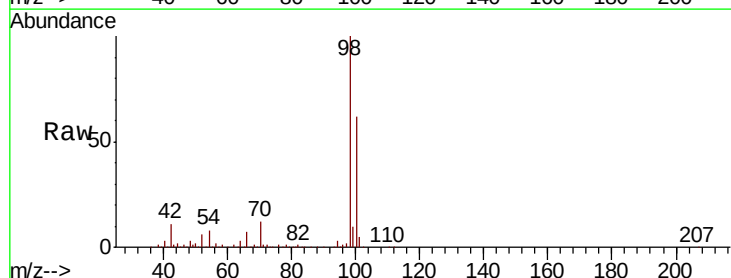
Acq: 1 Oct 2018 16:31

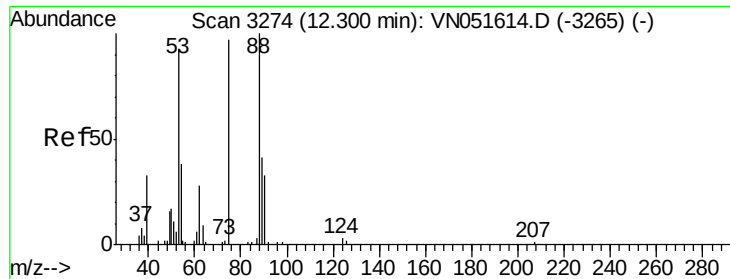
Tgt Ion: 98 Resp: 541714

Ion Ratio Lower Upper

98 100

100 62.3 51.4 77.0

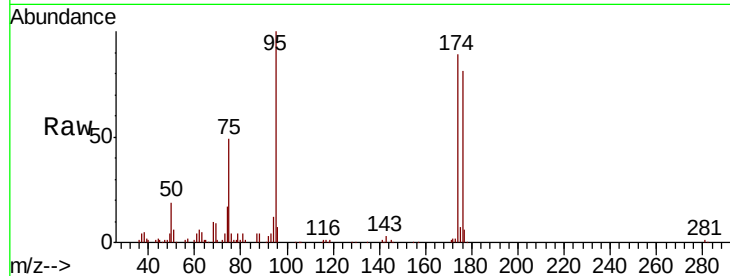




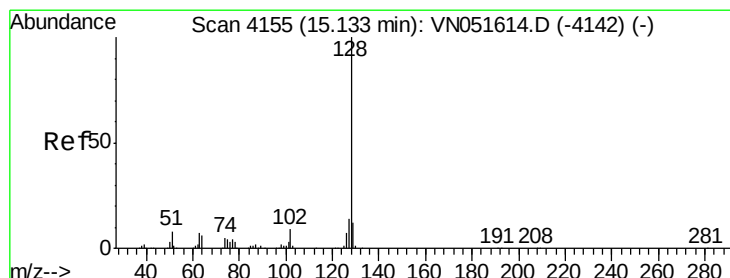
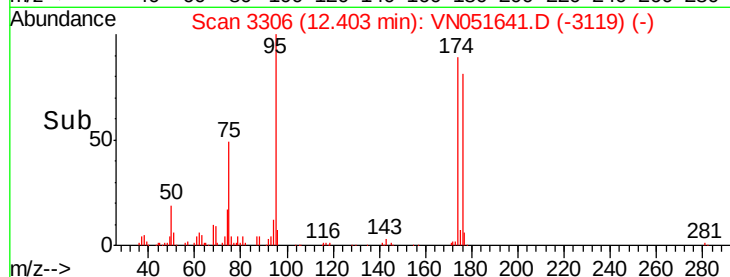
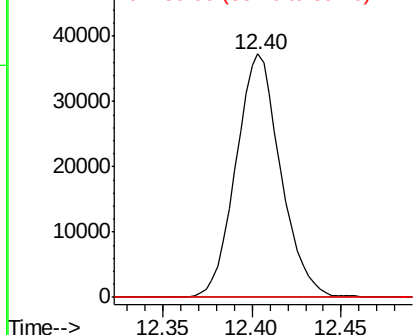
#77
t-1,4-Dichloro-2-butene
Concen: 40.237 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051641.D
Acq: 1 Oct 2018 16:31

Instrument :
MSVOA_N
ClientSampled :
2-AVE-21

Tot Ion: 75 Resp: 65153
Ion Ratio Lower Upper
75 100
53 0.0 48.1 144.4#
89 0.0 22.4 67.3#

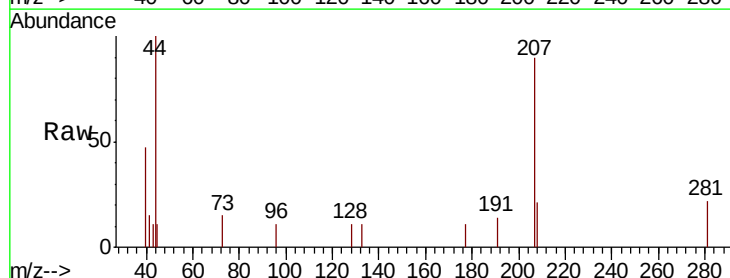


Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 89.00 (88.70 to 89.70): VN0



#91
Naphthalene
Concen: 8.277 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051641.D
Acq: 1 Oct 2018 16:31

Tgt Ion: 128 Resp: 60
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 0.0 9.1 13.7#



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

