

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090618\
 Data File : VN051035.D
 Acq On : 6 Sep 2018 16:29
 Operator : MD\SY
 Sample : J4819-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(SEP)

Quant Time: Sep 07 00:56:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	133028	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	685509	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	607055	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	256597	30.23	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.77%
60) 4-Bromofluorobenzene	12.40	95	240044	26.59	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.63%
63) Toluene-d8	10.09	98	828556	29.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.57%

Target Compounds

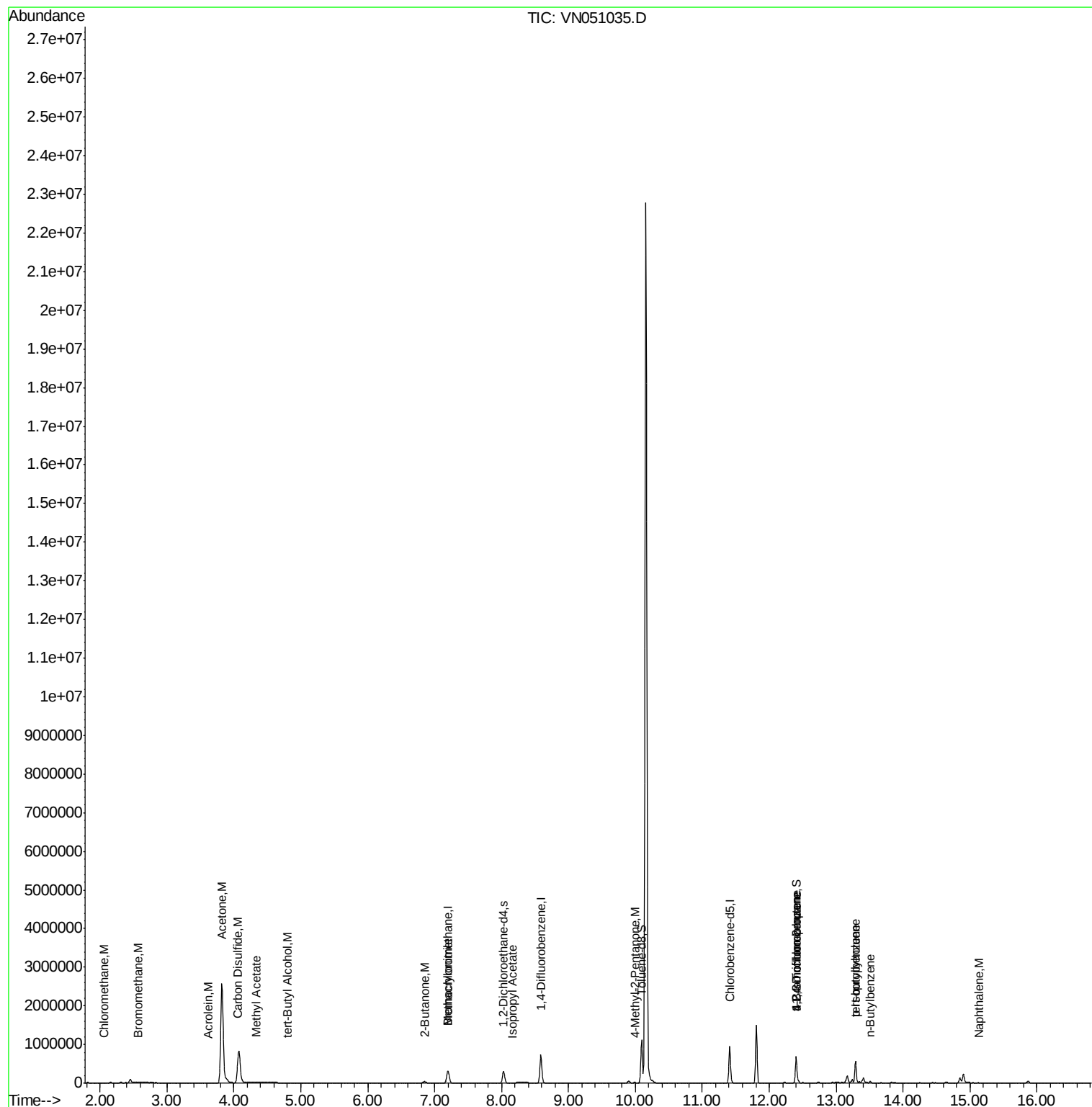
						Ovalue
3) Chloromethane	2.06	50	2031	0.21	ug/l	# 69
5) Bromomethane	2.56	94	2061	0.35	ug/l	82
12) Methyl Acetate	4.33	43	8304	1.00	ug/l	96
13) Acrolein	3.61	56	98	0.53	ug/l	# 70
15) Acetone	3.82	58	1504995	2092.81	ug/l	93
16) Carbon Disulfide	4.05	76	9991	0.46	ug/l	96
23) tert-Butyl Alcohol	4.79	59	139	0.23	ug/l	# 100
30) 2-Butanone	6.85	43	63665	20.17	ug/l	97
35) Methacrylonitrile	7.21	41	2042	0.59	ug/l	# 58
44) Isopropyl Acetate	8.17	43	2335	0.20	ug/l	# 63
58) 4-Methyl-2-Pentanone	9.99	43	15463	2.23	ug/l	98
72) 1,2,3-Trichloropropane	12.40	75	110521	13.81	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	110521	48.46	ug/l	# 13
79) tert-butylbenzene	13.29	119	300819	12.37	ug/l	61
82) p-Isopropyltoluene	13.29	119	300819	10.95	ug/l	98
85) n-Butylbenzene	13.51	91	5952	0.28	ug/l	86
91) Naphthalene	15.14	128	2761	8.71	ug/l	98

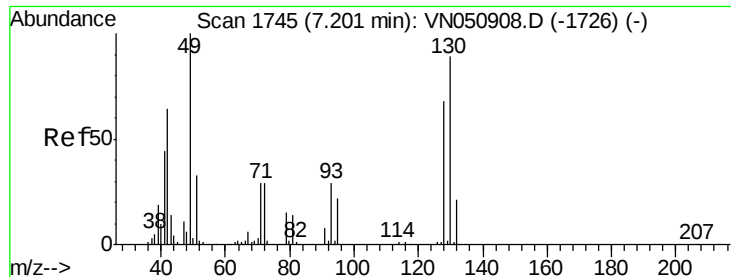
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 29 01:38:44 2018
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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051035.D

Acq: 6 Sep 2018 16:29

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)

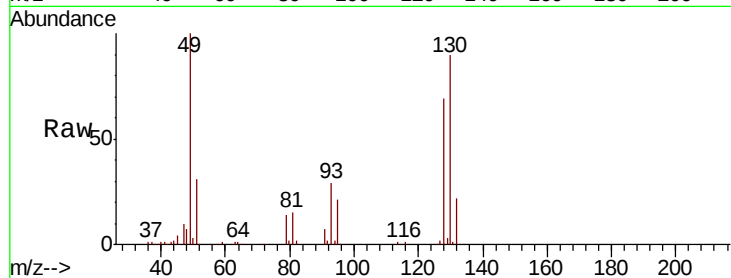
Tot Ion:128 Resp: 133028

Ion Ratio Lower Upper

128 100

49 147.1 0.0 380.3

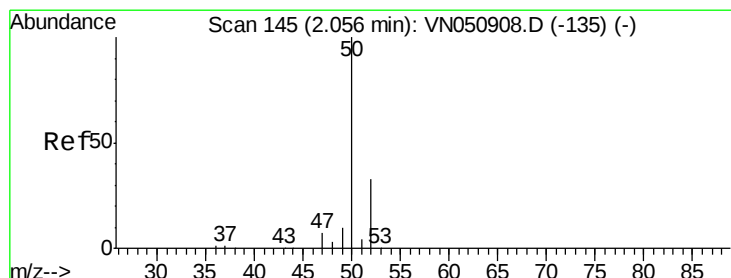
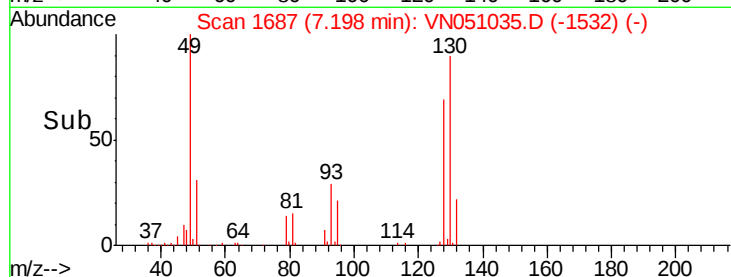
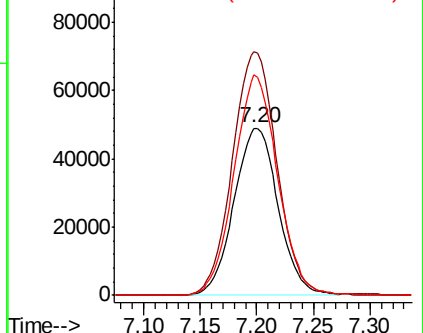
130 130.7 0.0 325.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051035.D

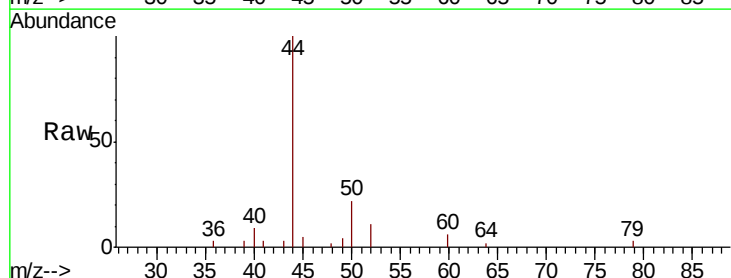
Acq: 6 Sep 2018 16:29

Tgt Ion: 50 Resp: 2031

Ion Ratio Lower Upper

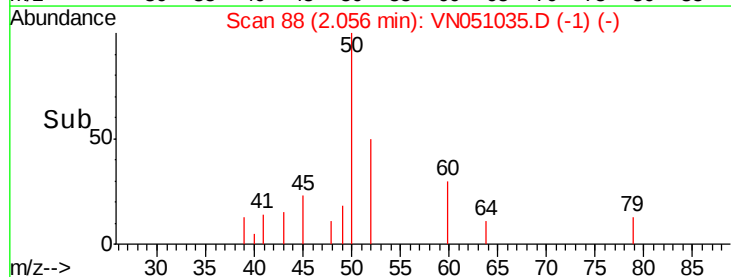
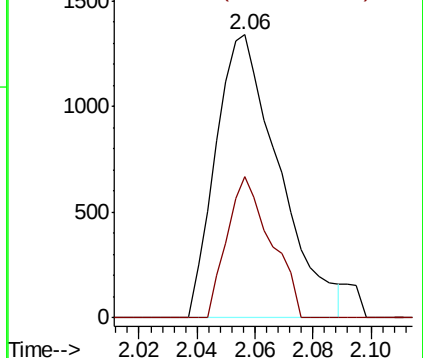
50 100

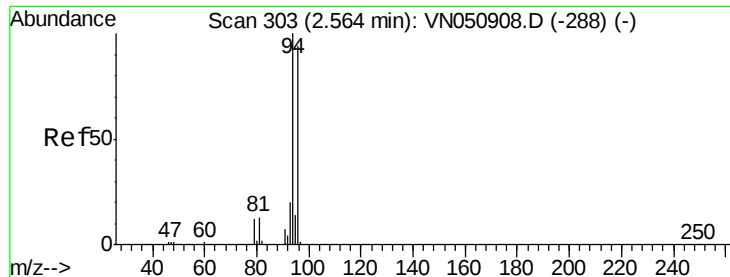
52 50.1 26.2 39.4#



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.35 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.00 min

Lab File: VN051035.D

Acq: 6 Sep 2018 16:29

Instrument :

MSVOA_N

ClientSampleId :

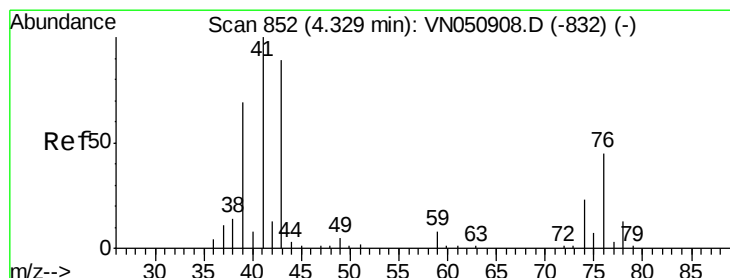
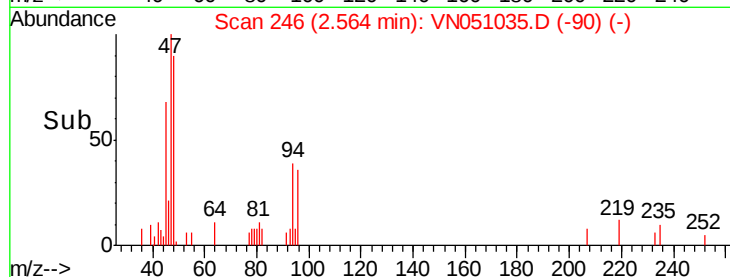
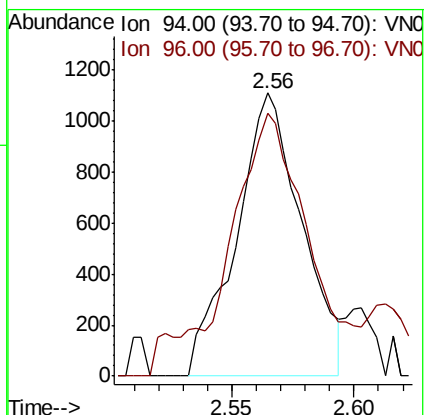
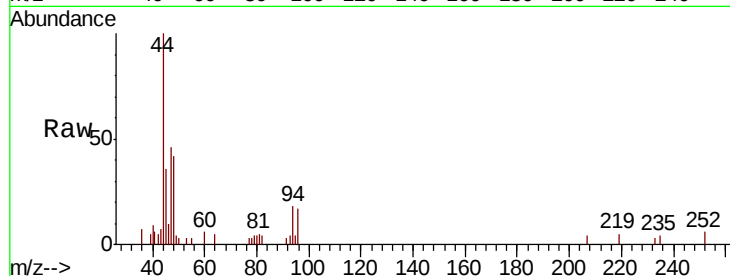
002M-35TH-AVE(SEP)

Tot Ion: 94 Resp: 2061

Ion Ratio Lower Upper

94 100

96 76.5 74.9 112.3



#12

Methyl Acetate

Concen: 1.00 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051035.D

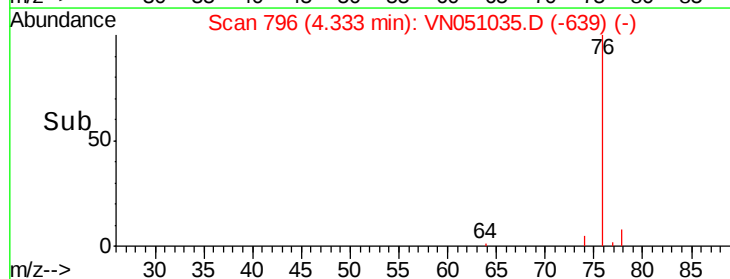
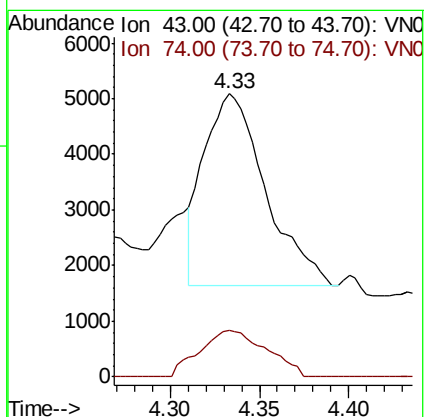
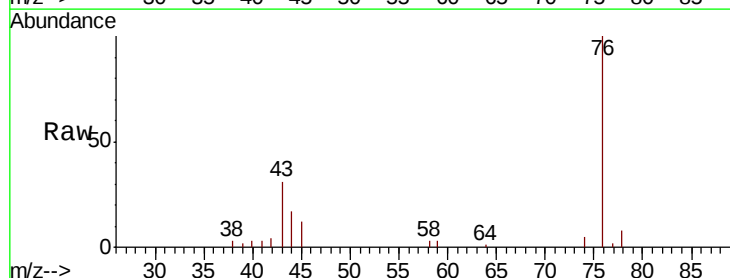
Acq: 6 Sep 2018 16:29

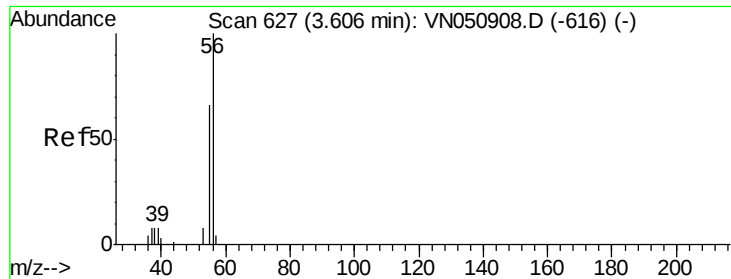
Tgt Ion: 43 Resp: 8304

Ion Ratio Lower Upper

43 100

74 23.6 20.6 31.0





#13

Acrolein

Concen: 0.53 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051035.D

Acq: 6 Sep 2018 16:29

Instrument :

MSVOA_N

ClientSampleId :

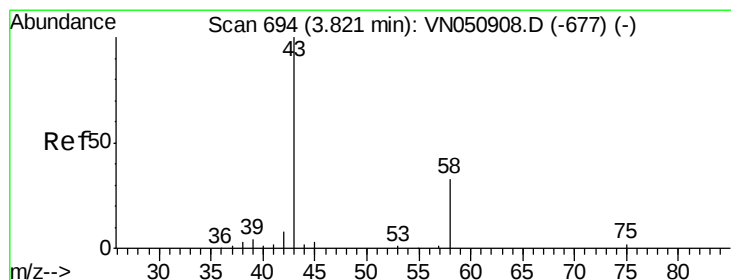
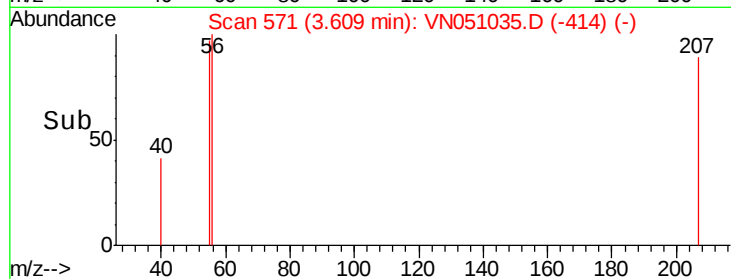
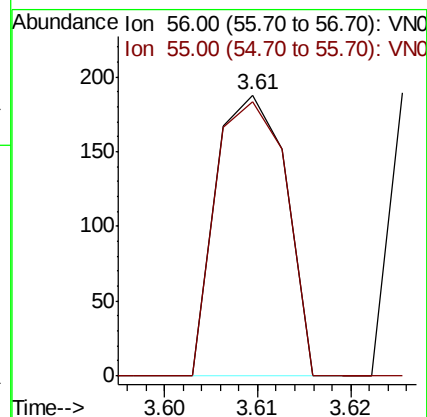
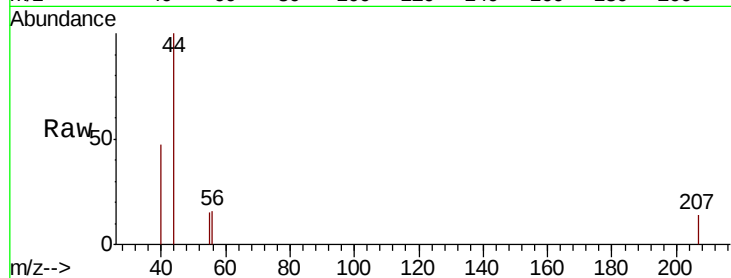
002M-35TH-AVE(SEP)

Tot Ion: 56 Resp: 98

Ion Ratio Lower Upper

56 100

55 99.0 59.1 88.7#



#15

Acetone

Concen: 2092.81 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051035.D

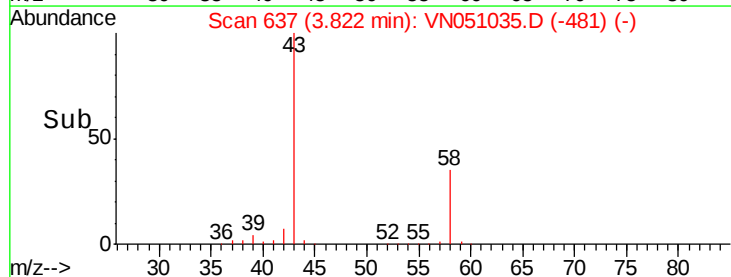
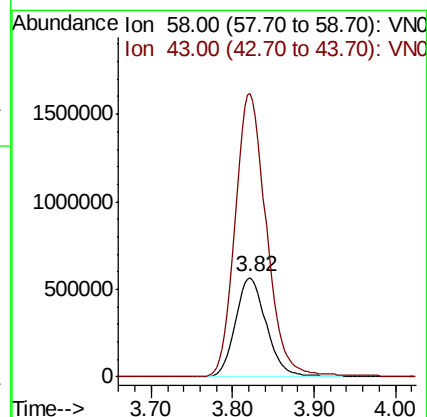
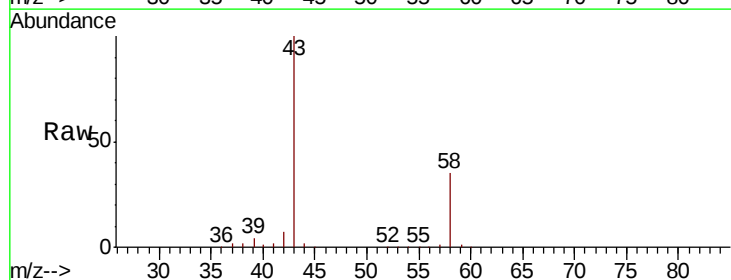
Acq: 6 Sep 2018 16:29

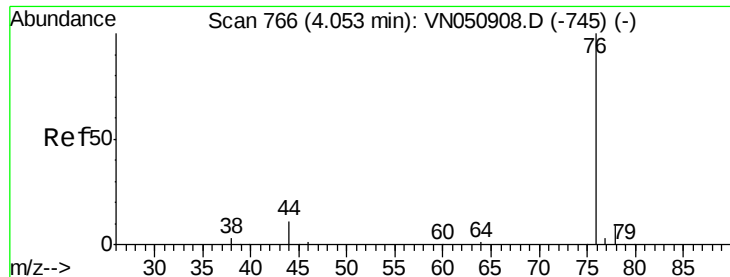
Tgt Ion: 58 Resp: 1504995

Ion Ratio Lower Upper

58 100

43 285.5 239.4 359.0

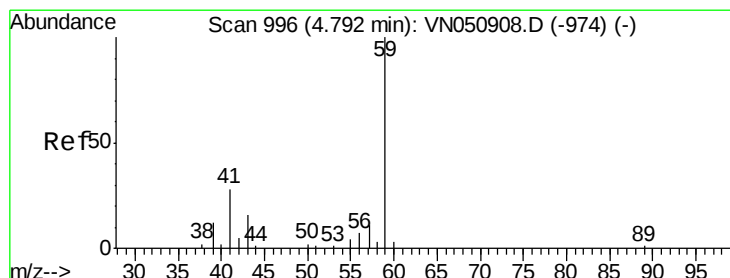
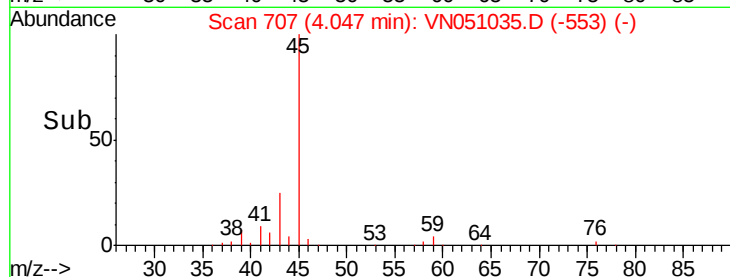
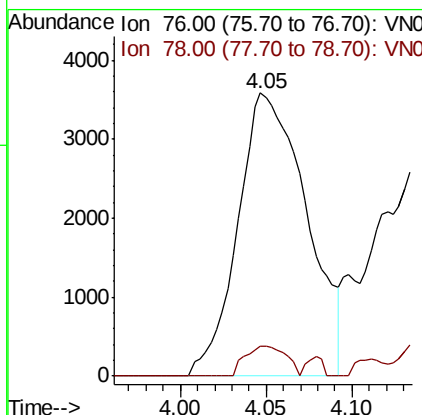
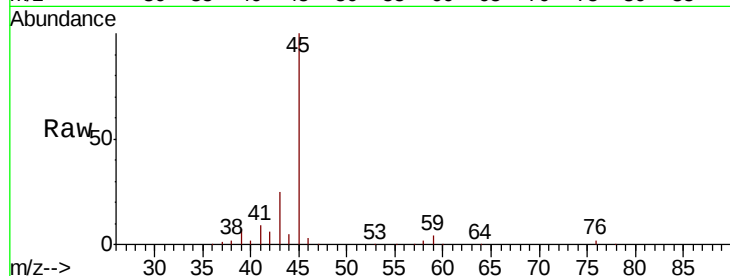




#16
Carbon Disulfide
Concen: 0.46 ug/l
RT: 4.05 min Scan# 707
Delta R.T. -0.01 min
Lab File: VN051035.D
Acq: 6 Sep 2018 16:29

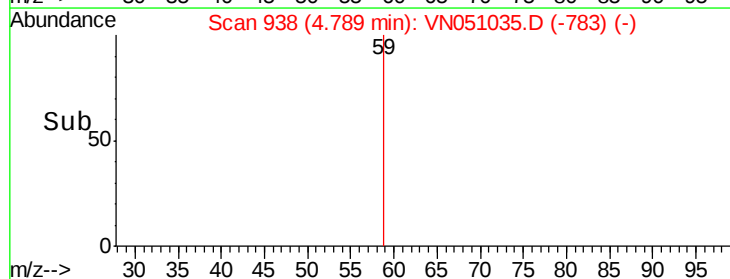
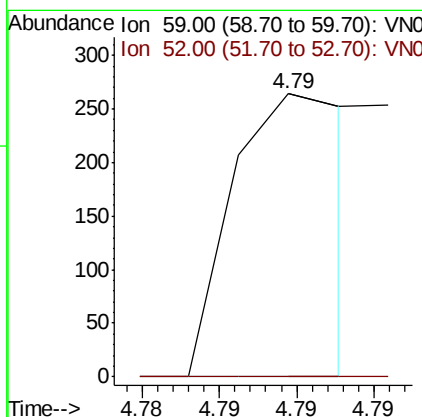
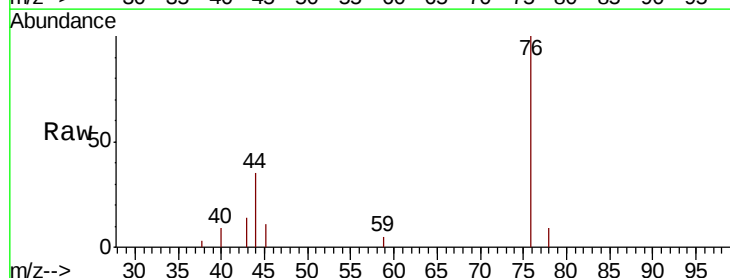
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(SEP)

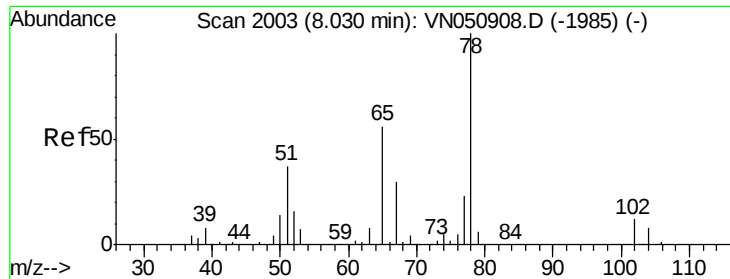
Tot Ion: 76 Resp: 9991
Ion Ratio Lower Upper
76 100
78 10.4 7.3 10.9



#23
tert-Butyl Alcohol
Concen: 0.23 ug/l
RT: 4.79 min Scan# 938
Delta R.T. -0.00 min
Lab File: VN051035.D
Acq: 6 Sep 2018 16:29

Tgt Ion: 59 Resp: 139
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#





#27

1,2-Dichloroethane-d4

Concen: 30.23 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051035.D

Acq: 6 Sep 2018 16:29

Instrument :

MSVOA_N

ClientSampleId :

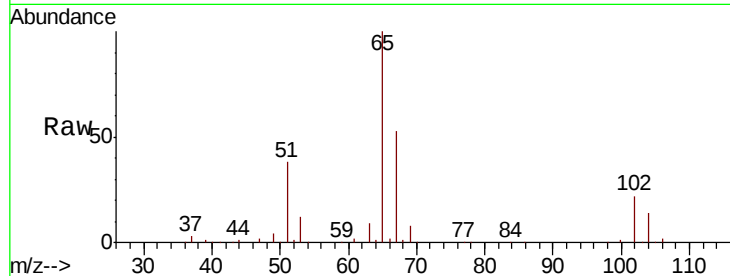
002M-35TH-AVE(SEP)

Tot Ion: 65 Resp: 256597

Ion Ratio Lower Upper

65 100

67 54.1 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN051035.D (-1946) (-)

Ion 67.00 (66.70 to 67.70): VN051035.D (-1946) (-)

8.03

120000

100000

80000

60000

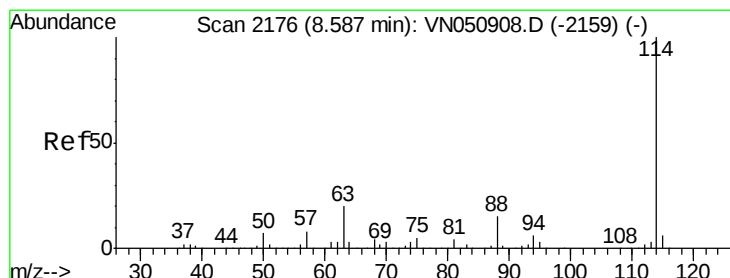
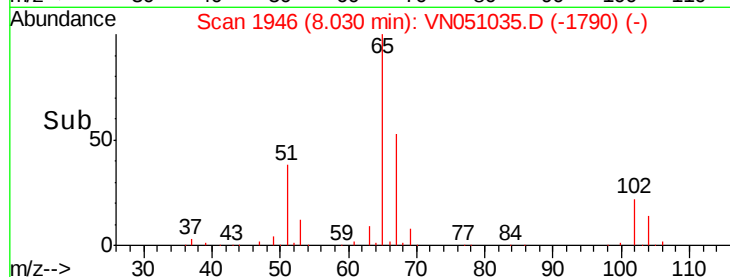
40000

20000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051035.D

Acq: 6 Sep 2018 16:29

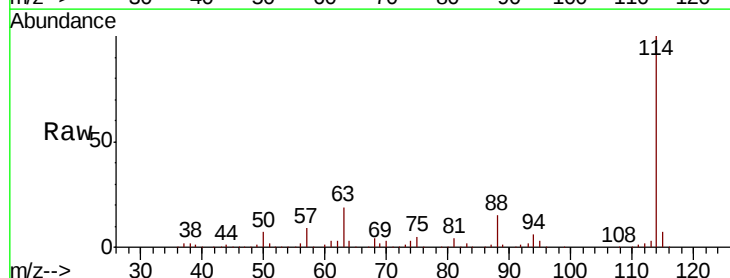
Tgt Ion: 114 Resp: 685509

Ion Ratio Lower Upper

114 100

63 19.1 15.6 23.4

88 15.2 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051035.D (-2119) (-)

Ion 63.00 (62.70 to 63.70): VN051035.D (-2119) (-)

Ion 88.00 (87.70 to 88.70): VN051035.D (-2119) (-)

8.59

400000

300000

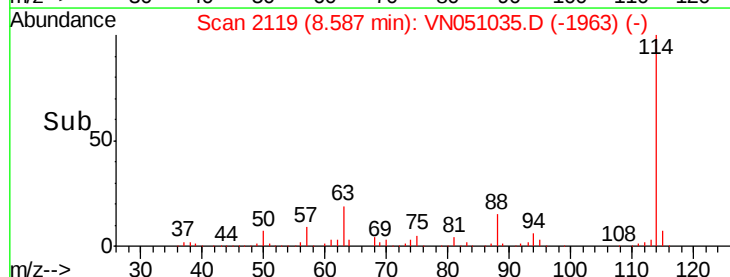
200000

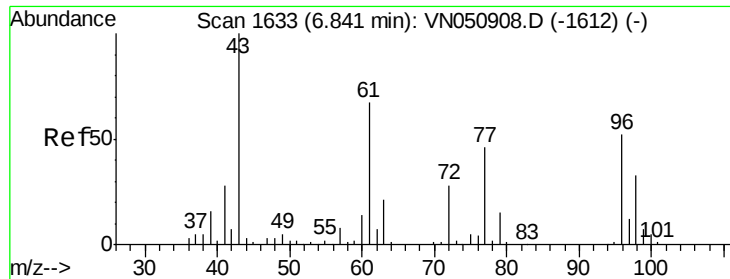
100000

0

8.50 8.60 8.70

Time-->

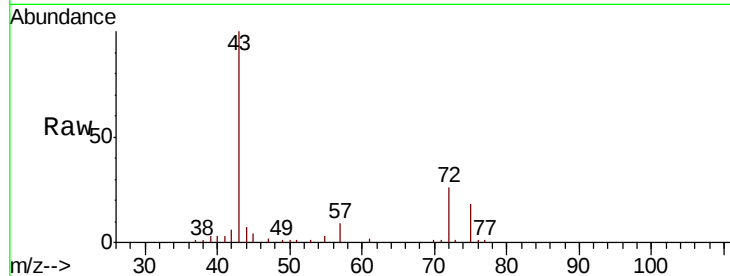




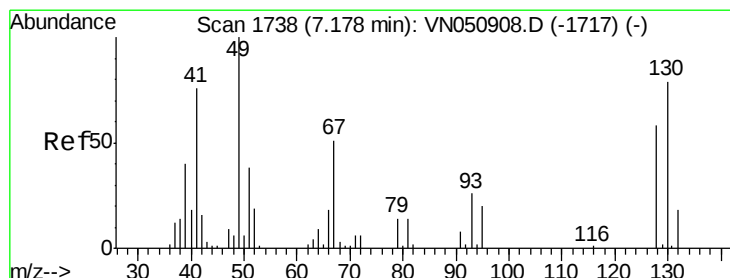
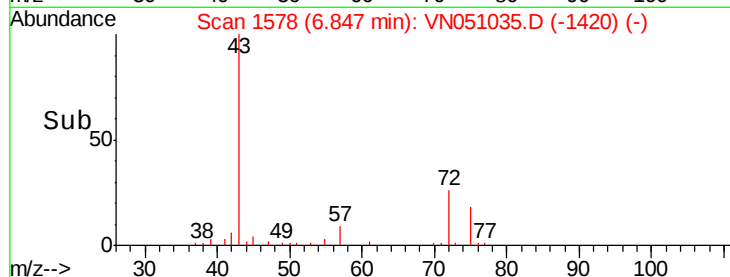
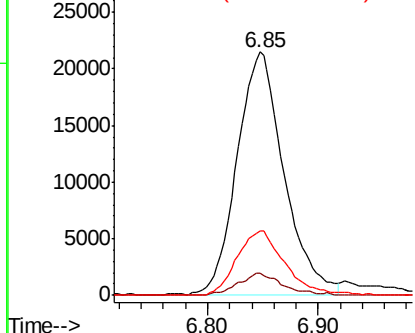
#30
2-Butanone
Concen: 20.17 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051035.D
Acq: 6 Sep 2018 16:29

Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(SEP)

Tot Ion: 43 Resp: 63665
Ion Ratio Lower Upper
43 100
57 8.4 6.9 10.3
72 26.5 22.8 34.2

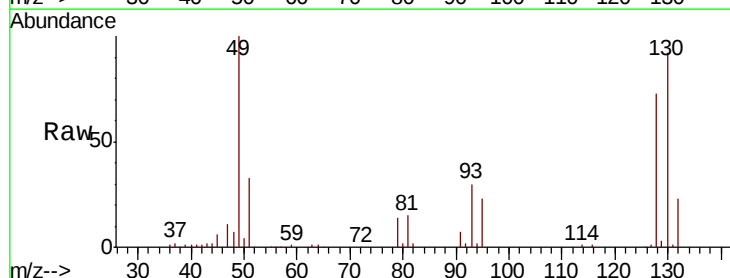


Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 57.00 (56.70 to 57.70): VNC
Ion 72.00 (71.70 to 72.70): VNC

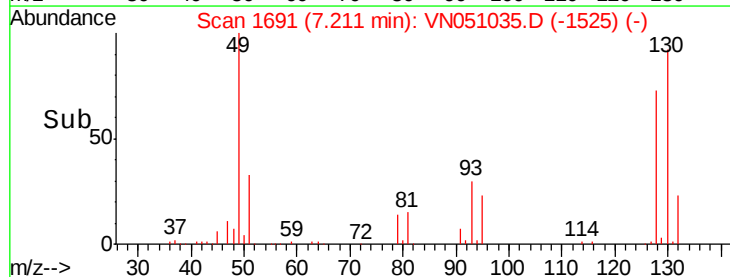
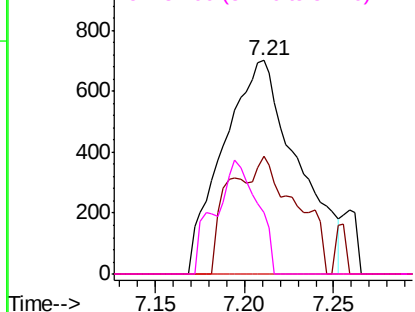


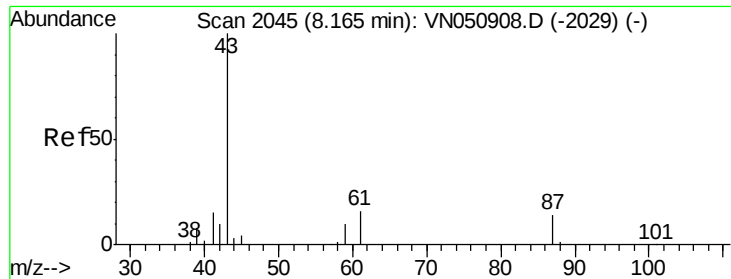
#35
Methacrylonitrile
Concen: 0.59 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.03 min
Lab File: VN051035.D
Acq: 6 Sep 2018 16:29

Tgt Ion: 41 Resp: 2042
Ion Ratio Lower Upper
41 100
39 55.0 26.2 78.5
67 0.0 33.9 101.6#
52 29.1 12.5 37.5



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC



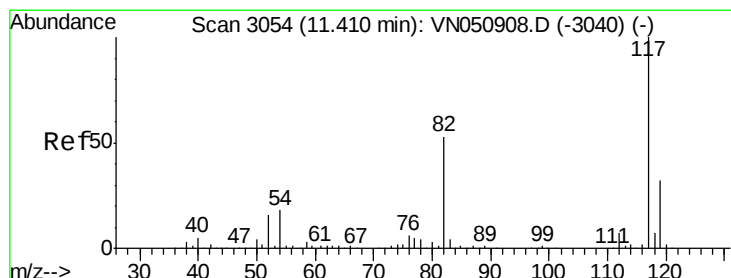
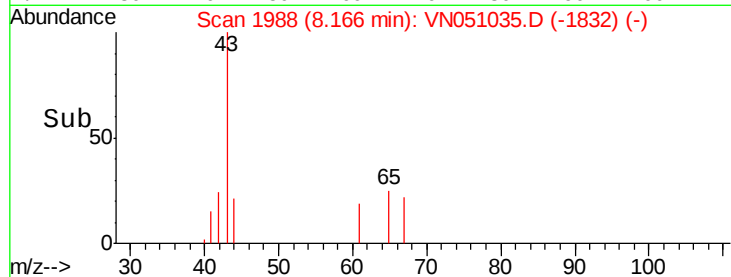
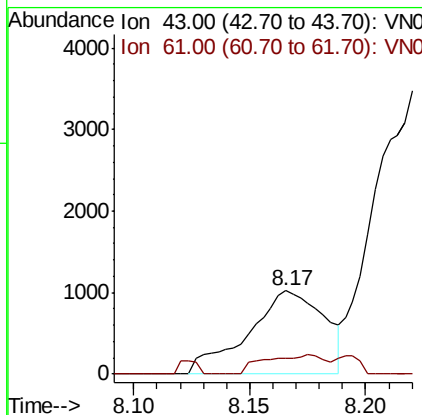
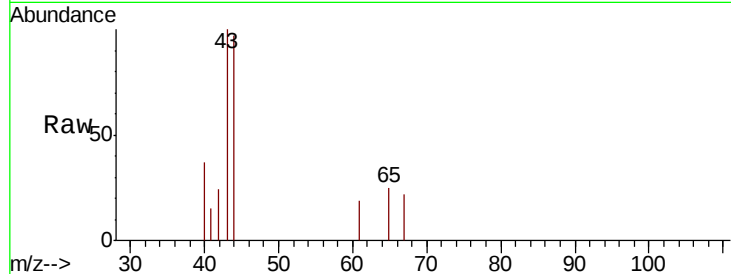


#44

Isopropyl Acetate
 Concen: 0.20 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN051035.D
 Acq: 6 Sep 2018 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(SEP)

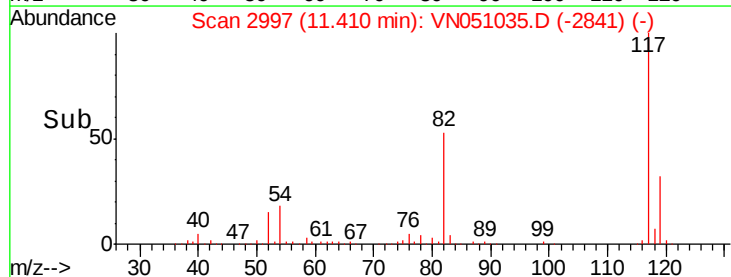
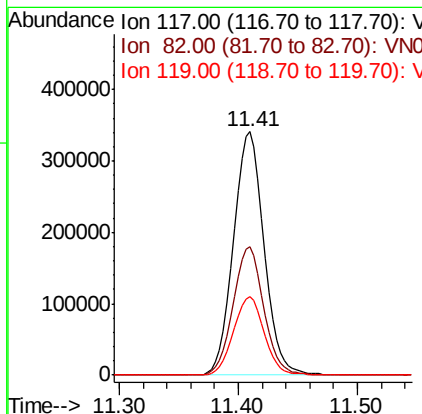
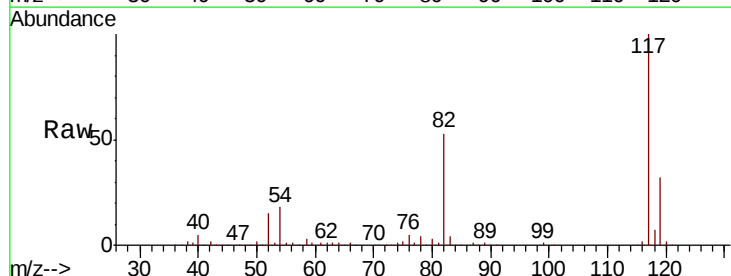
Tot Ion: 43 Resp: 2335
 Ion Ratio Lower Upper
 43 100
 61 3.2 16.3 24.5#

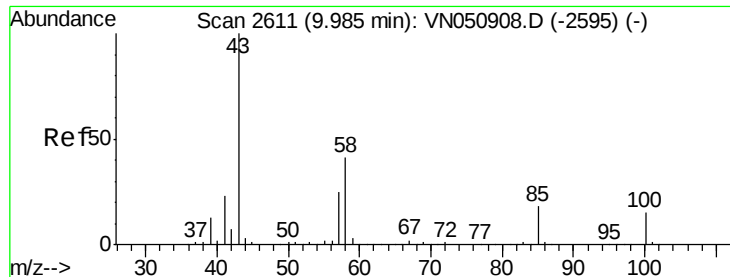


#57

Chlorobenzene-d5
 Concen: 30.00 ug/l
 RT: 11.41 min Scan# 2997
 Delta R.T. 0.00 min
 Lab File: VN051035.D
 Acq: 6 Sep 2018 16:29

Tgt Ion: 117 Resp: 607055
 Ion Ratio Lower Upper
 117 100
 82 52.7 42.6 64.0
 119 32.6 25.7 38.5

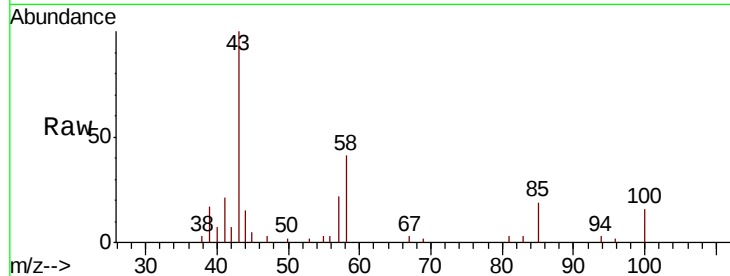




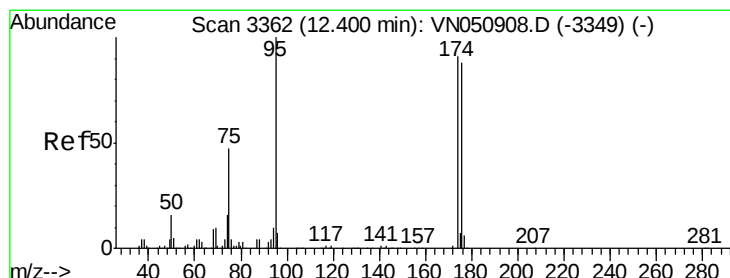
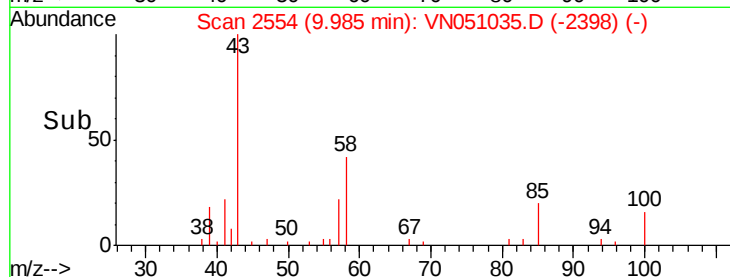
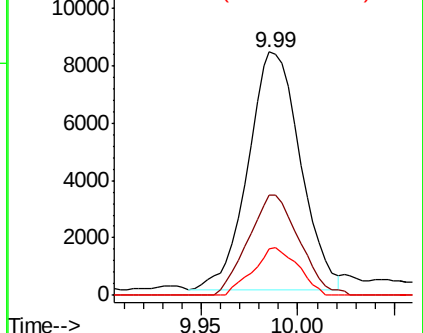
#58
 4-Methyl-2-Pentanone
 Concen: 2.23 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN051035.D
 Acq: 6 Sep 2018 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(SEP)

Tot Ion: 43 Resp: 15463
 Ion Ratio Lower Upper
 43 100
 58 41.4 32.3 48.5
 85 17.3 14.9 22.3

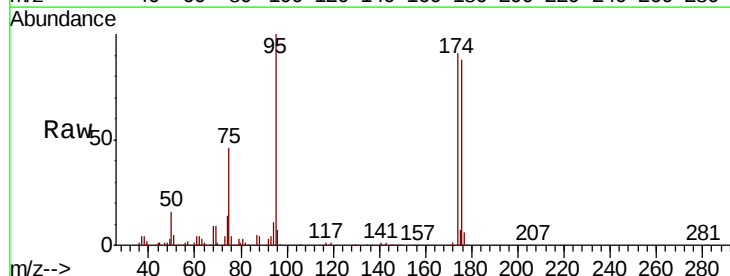


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0
 Ion 85.00 (84.70 to 85.70): VN0

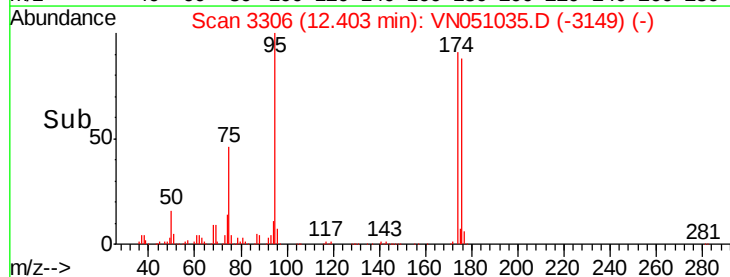
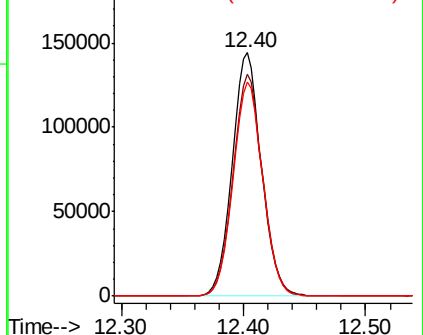


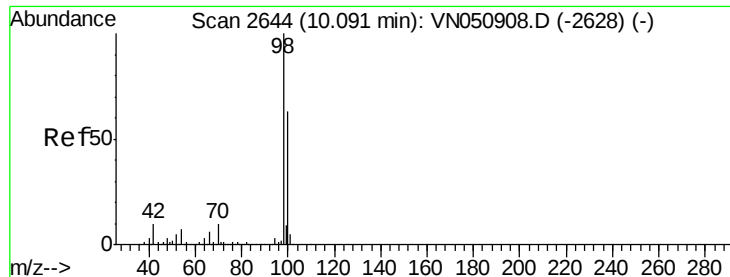
#60
 4-Bromofluorobenzene
 Concen: 26.59 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN051035.D
 Acq: 6 Sep 2018 16:29

Tgt Ion: 95 Resp: 240044
 Ion Ratio Lower Upper
 95 100
 174 91.9 74.6 112.0
 176 88.9 71.5 107.3



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





#63

Toluene-d8

Concen: 29.27 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051035.D

Acq: 6 Sep 2018 16:29

Instrument :

MSVOA_N

ClientSampleId :

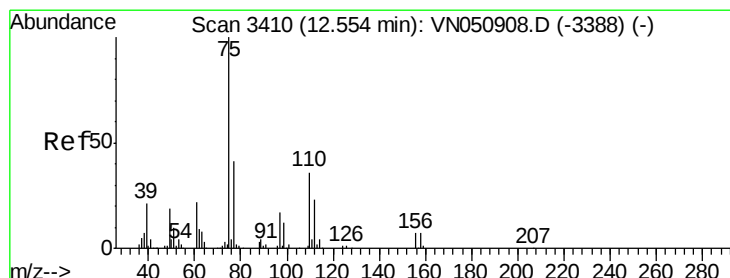
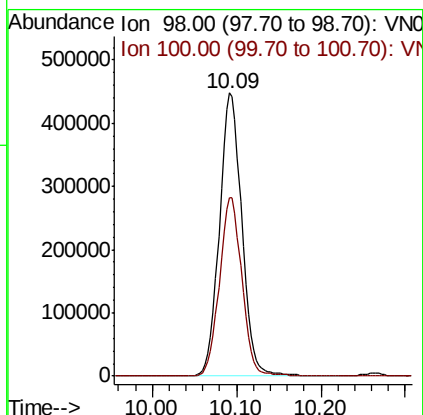
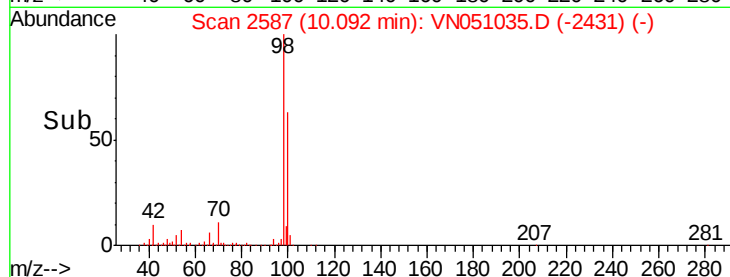
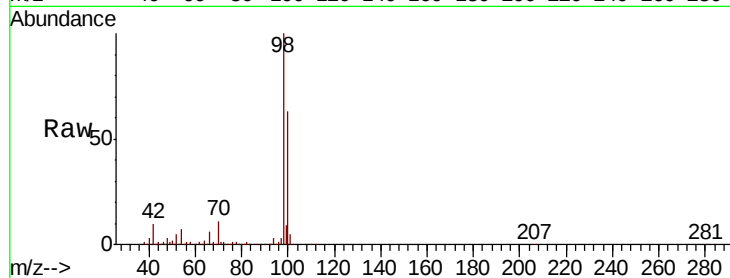
002M-35TH-AVE(SEP)

Tot Ion: 98 Resp: 828556

Ion Ratio Lower Upper

98 100

100 63.1 50.6 75.8



#72

1,2,3-Trichloropropane

Concen: 13.81 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051035.D

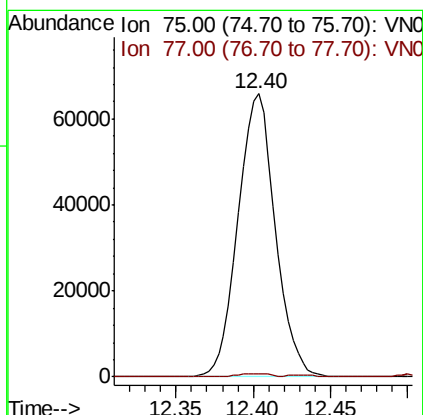
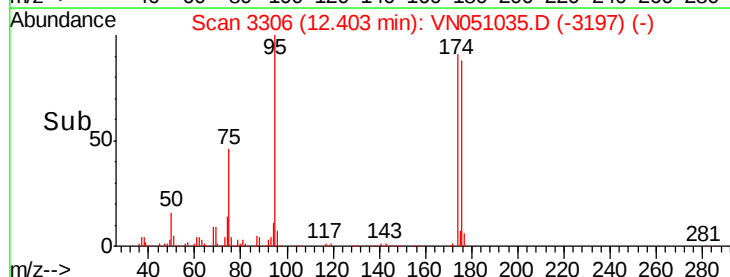
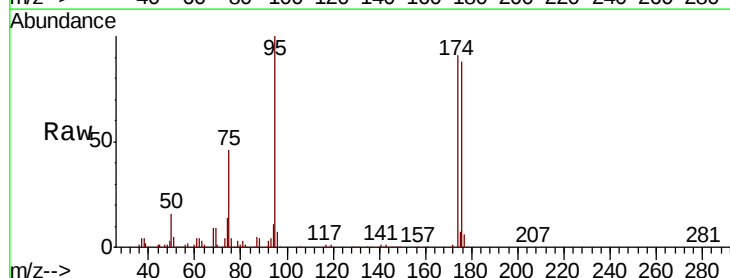
Acq: 6 Sep 2018 16:29

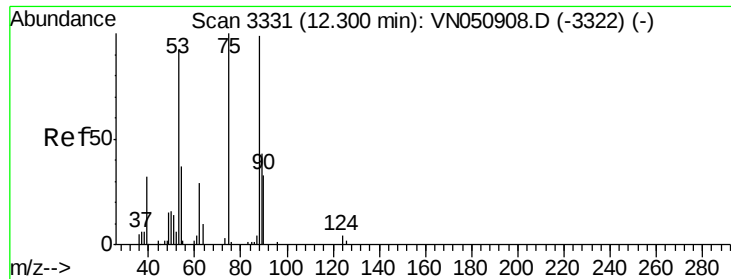
Tgt Ion: 75 Resp: 110521

Ion Ratio Lower Upper

75 100

77 1.0 0.0 301.6

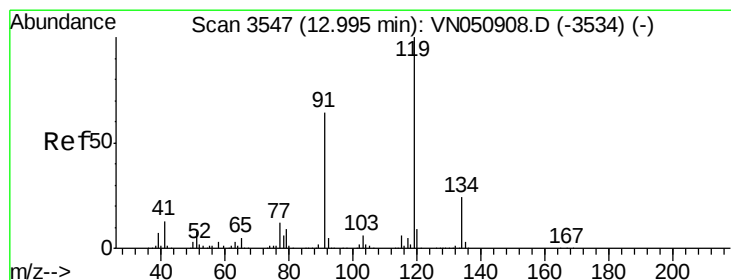
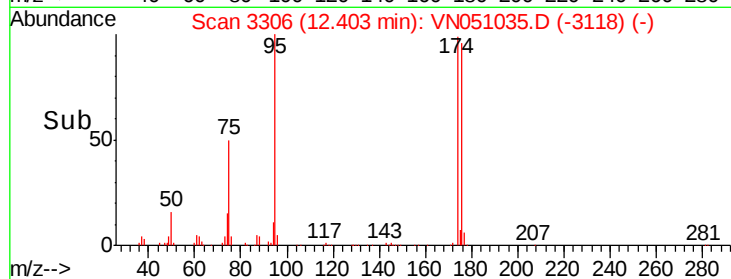
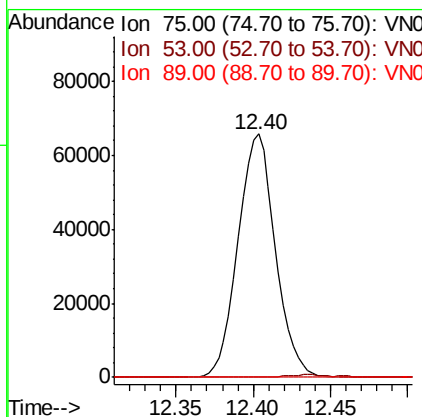
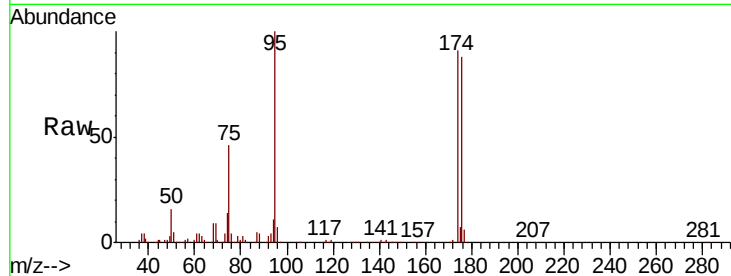




#77
t-1,4-Dichloro-2-butene
Concen: 48.46 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051035.D
Acq: 6 Sep 2018 16:29

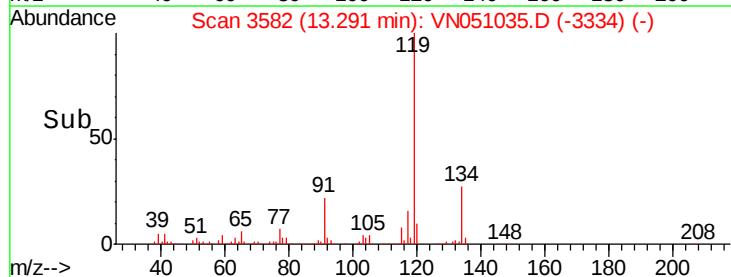
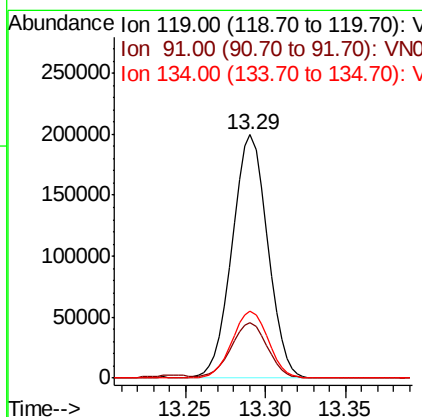
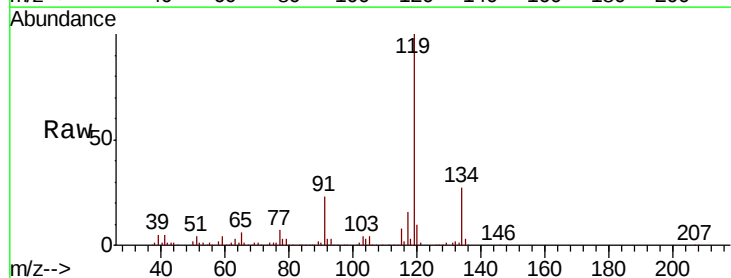
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(SEP)

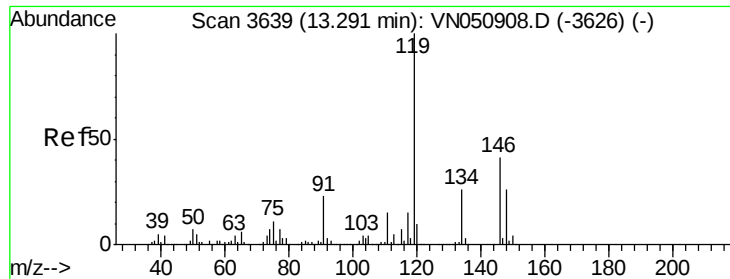
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.3	45.5	136.4#
89	0.0	21.9	65.8#



#79
tert-butylbenzene
Concen: 12.37 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.30 min
Lab File: VN051035.D
Acq: 6 Sep 2018 16:29

Tgt Ion	Ratio	Lower	Upper
119	100		
91	23.0	0.0	125.6
134	28.0	0.0	48.4

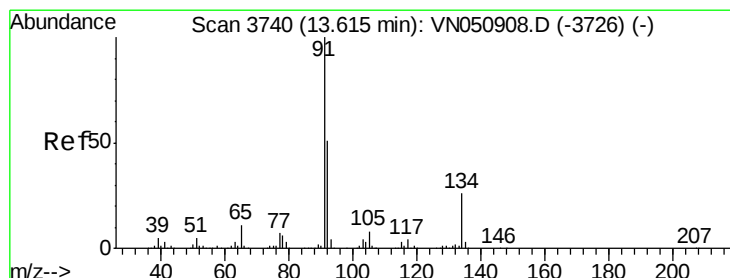
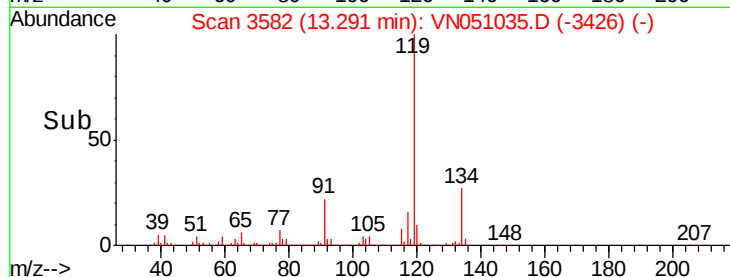
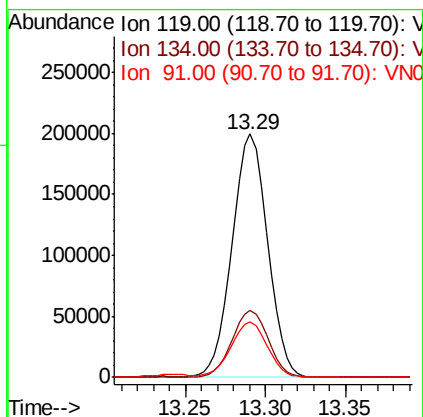
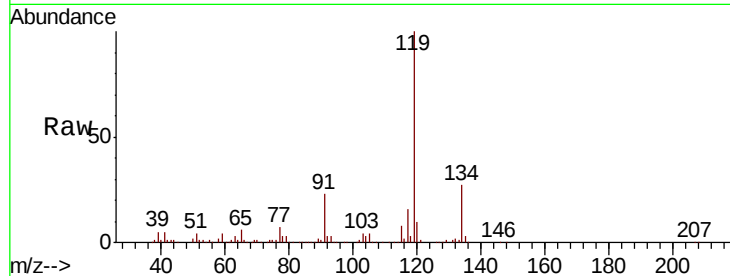




#82
p-Isopropyltoluene
Concen: 10.95 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN051035.D
Acq: 6 Sep 2018 16:29

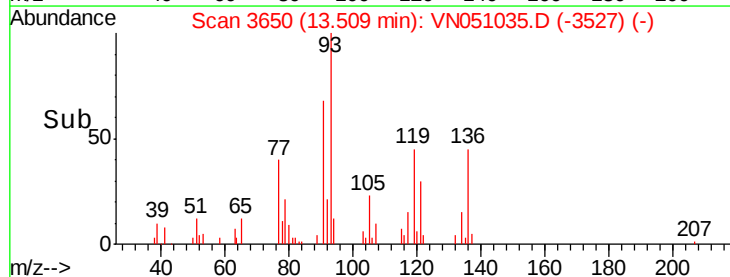
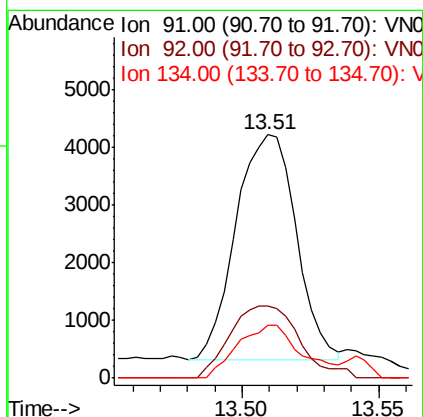
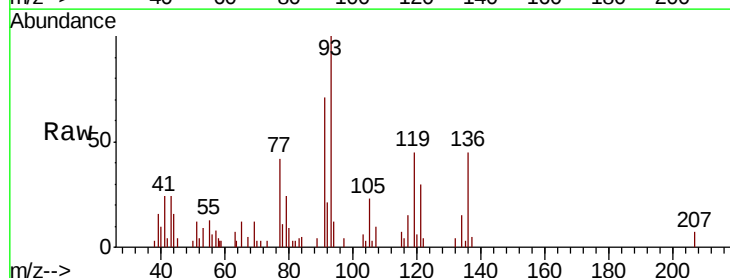
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(SEP)

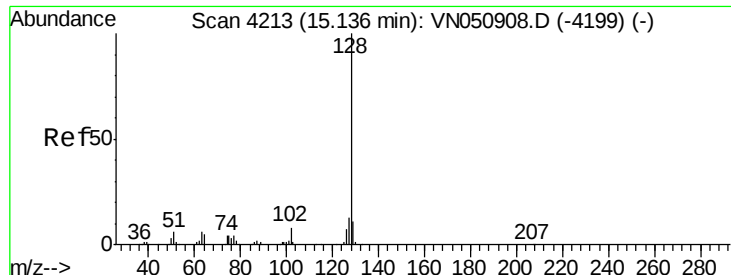
Tot Ion:119 Resp: 300819
Ion Ratio Lower Upper
119 100
134 28.0 0.0 53.2
91 23.0 0.0 46.0



#85
n-Butylbenzene
Concen: 0.28 ug/l
RT: 13.51 min Scan# 3650
Delta R.T. -0.11 min
Lab File: VN051035.D
Acq: 6 Sep 2018 16:29

Tgt Ion: 91 Resp: 5952
Ion Ratio Lower Upper
91 100
92 36.6 0.0 101.8
134 25.2 0.0 52.2





#91

Naphthalene

Concen: 8.71 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051035.D

Acq: 6 Sep 2018 16:29

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)

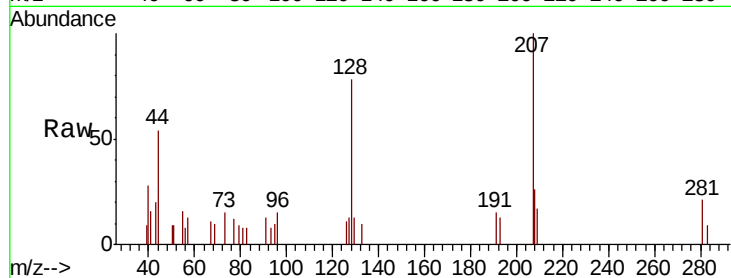
Tot Ion:128 Resp: 2761

Ion Ratio Lower Upper

128 100

127 12.7 10.6 16.0

129 10.2 8.7 13.1



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

