

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051869.D
 Acq On : 15 Oct 2018 13:08
 Operator : MD\SY
 Sample : J5512-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:45:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	142710	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1189032	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	1142627	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	284369	32.75	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.17%
60) 4-Bromofluorobenzene	12.40	95	445876	27.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.20%
63) Toluene-d8	10.09	98	1526257	30.76	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.53%

Target Compounds

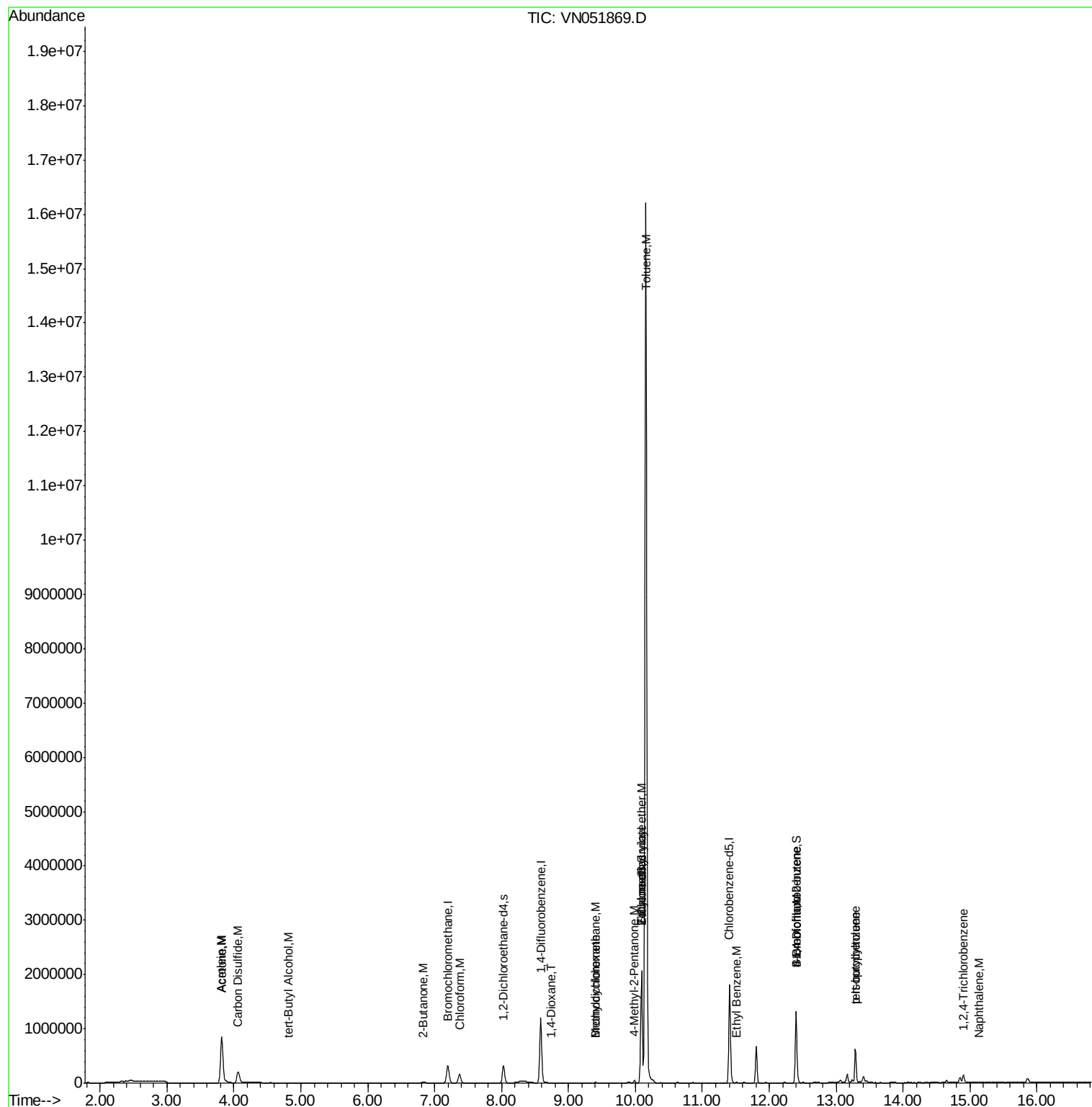
					Ovalue	
13) Acrolein	3.81	56	167	0.621	ug/l #	45
15) Acetone	3.82	58	467582	1037.273	ug/l	93
16) Carbon Disulfide	4.06	76	6274	0.364	ug/l	98
23) tert-Butyl Alcohol	4.81	59	236	0.491	ug/l #	100
25) Chloroform	7.37	83	173513	12.048	ug/l	93
30) 2-Butanone	6.84	43	13624	4.253	ug/l #	87
38) Methylcyclohexane	9.40	83	11891	0.605	ug/l #	16
41) Bromodichloromethane	9.40	83	11891	0.727	ug/l	91
45) 1,4-Dioxane	8.75	88	132	1.183	ug/l #	17
51) Ethyl methacrylate	10.09	69	4333	0.346	ug/l	86
55) 2-Chloroethyl vinyl ether	10.09	63	1297	0.242	ug/l #	1
56) Bromoform	12.40	173	3906	0.437	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	28383	3.712	ug/l #	89
62) Toluene	10.16	91	13017199	229.321	ug/l	98
66) Ethyl Benzene	11.51	91	14156	0.226	ug/l	95
77) t-1,4-Dichloro-2-butene	12.40	75	221370	64.434	ug/l #	12
79) tert-butylbenzene	13.29	119	361754	7.114	ug/l	58
82) p-Isopropyltoluene	13.29	119	361754	6.078	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	122	7.734	ug/l #	59
91) Naphthalene	15.13	128	2063	8.587	ug/l #	88

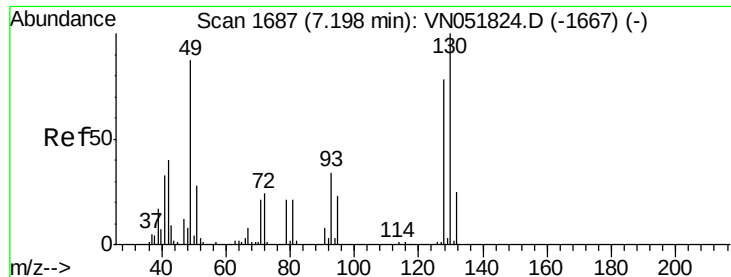
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
Data File : VN051869.D
Acq On : 15 Oct 2018 13:08
Operator : MD\SY
Sample : J5512-04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Oct 16 00:45:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 12 10:23:44 2018
Response via : Initial Calibration

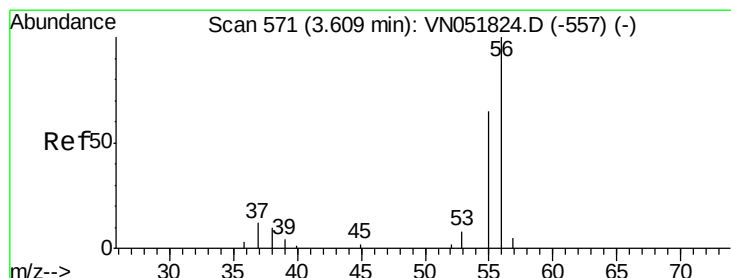
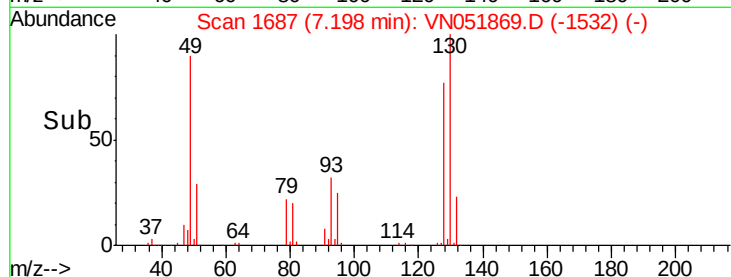
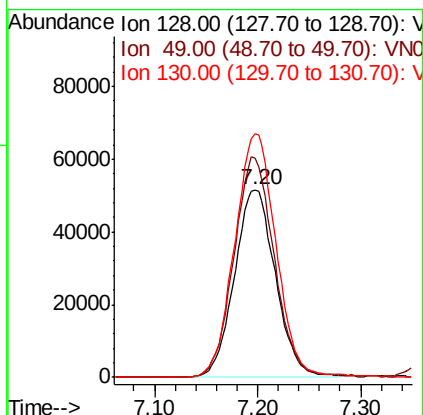
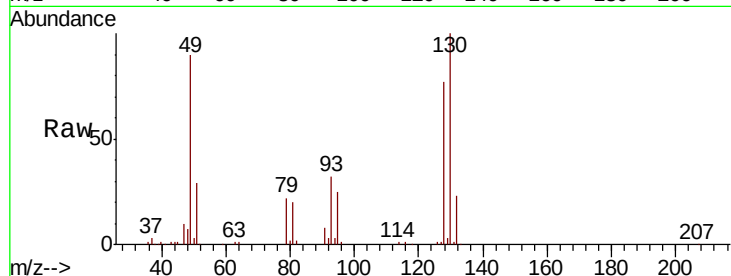




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. -0.00 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

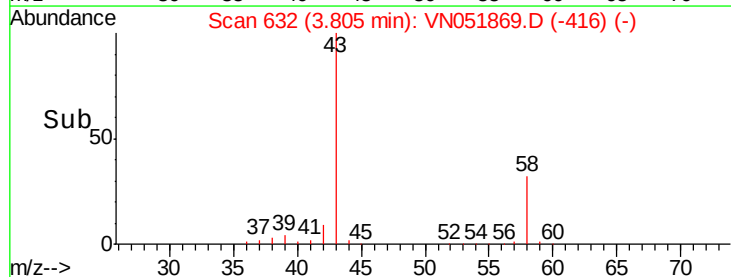
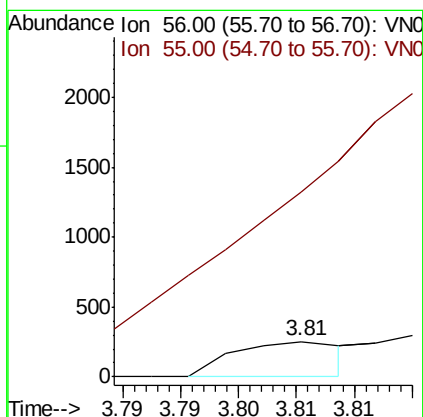
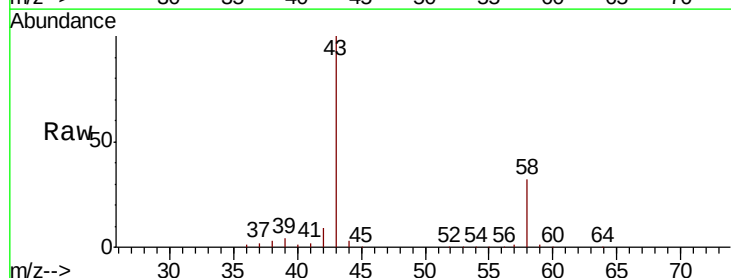
Instrument :
 MSVOA_N
 ClientSampled :

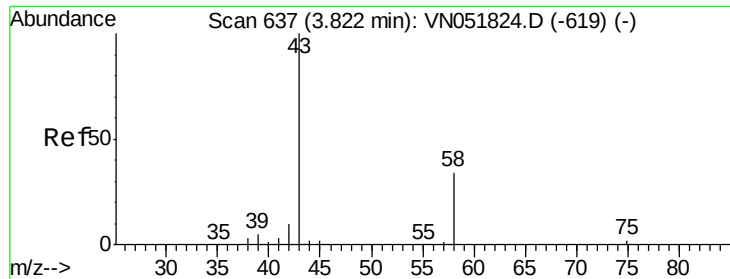
Tot Ion:128 Resp: 142710
 Ion Ratio Lower Upper
 128 100
 49 115.7 0.0 403.3
 130 130.3 0.0 326.0



#13
 Acrolein
 Concen: 0.621 ug/l
 RT: 3.81 min Scan# 632
 Delta R.T. 0.20 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

Tgt Ion: 56 Resp: 167
 Ion Ratio Lower Upper
 56 100
 55 128.1 64.0 96.0#





#15

Acetone

Concen: 1037.273 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

Instrument :

MSVOA_N

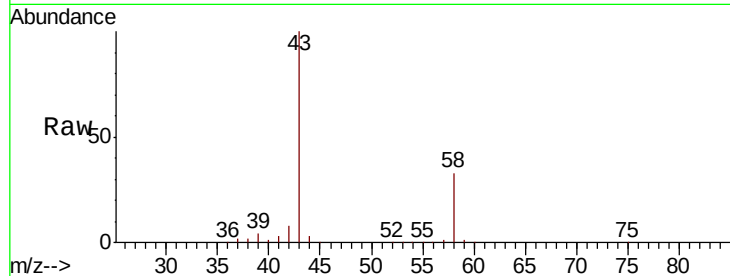
ClientSampled :

Tot Ion: 58 Resp: 467582

Ion Ratio Lower Upper

58 100

43 304.4 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN051824.D (-619) (-)

Ion 43.00 (42.70 to 43.70): VN051824.D (-619) (-)

600000

500000

400000

300000

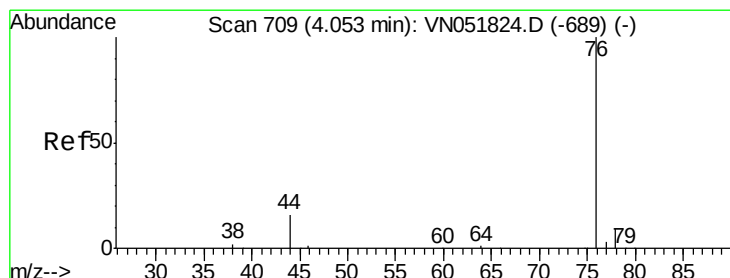
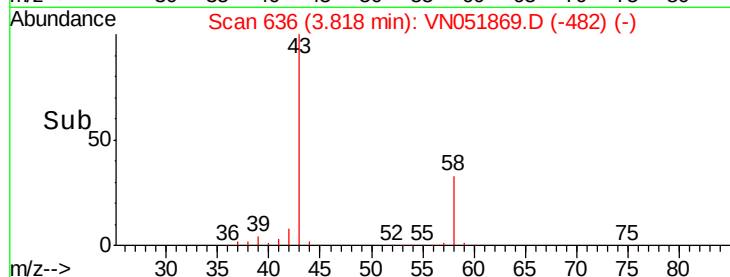
200000

100000

0

3.70 3.80 3.90

Time-->



#16

Carbon Disulfide

Concen: 0.364 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.01 min

Lab File: VN051869.D

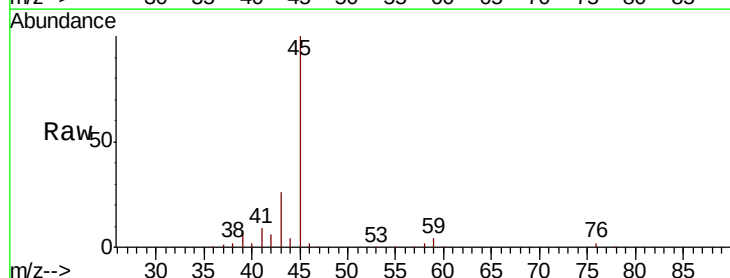
Acq: 15 Oct 2018 13:08

Tgt Ion: 76 Resp: 6274

Ion Ratio Lower Upper

76 100

78 7.7 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN051824.D (-689) (-)

Ion 78.00 (77.70 to 78.70): VN051824.D (-689) (-)

2500

2000

1500

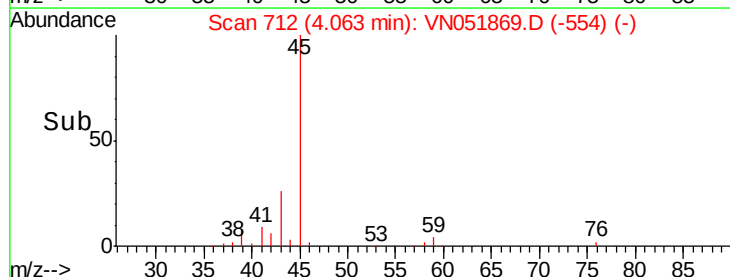
1000

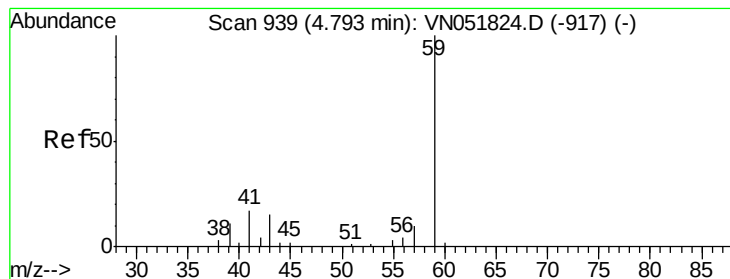
500

0

4.00 4.05 4.10

Time-->



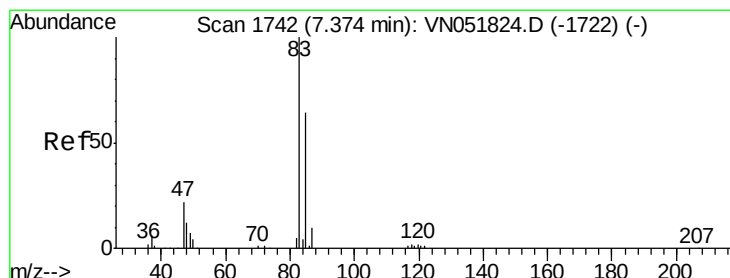
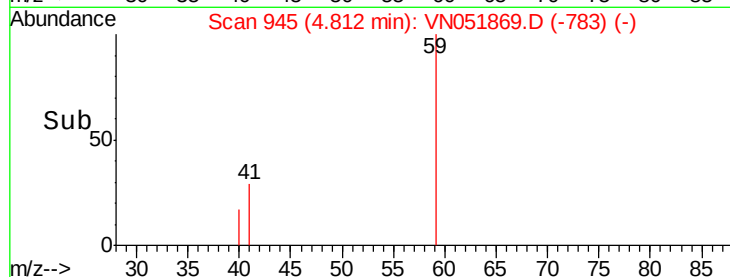
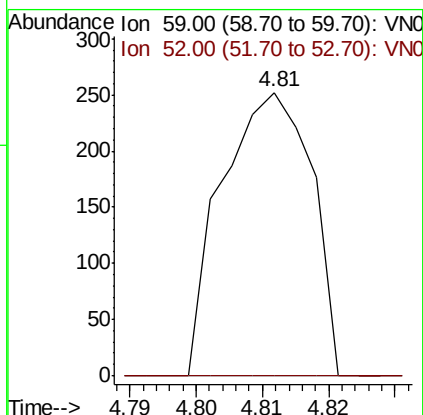
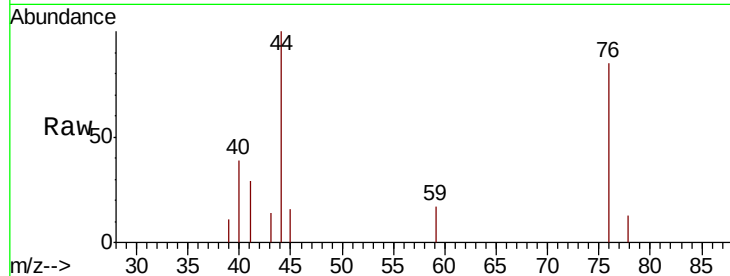


#23

tert-Butyl Alcohol
 Concen: 0.491 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. 0.02 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

Instrument :
 MSVOA_N
 ClientSampled :

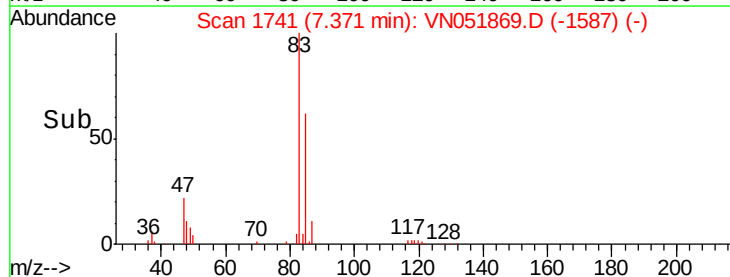
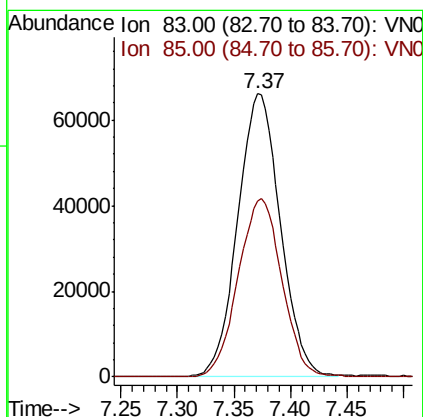
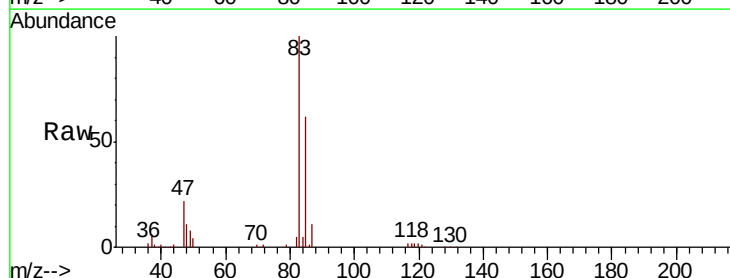
Tot Ion: 59 Resp: 236
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

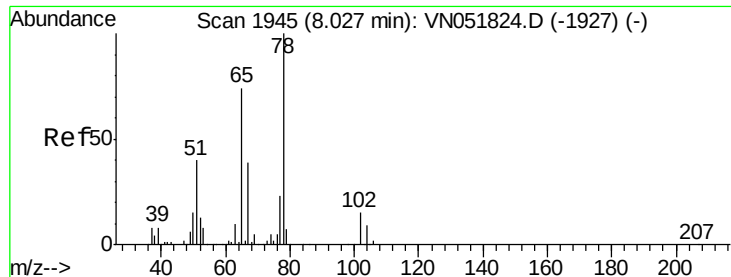


#25

Chloroform
 Concen: 12.048 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

Tgt Ion: 83 Resp: 173513
 Ion Ratio Lower Upper
 83 100
 85 62.3 54.6 82.0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

Instrument :

MSVOA_N

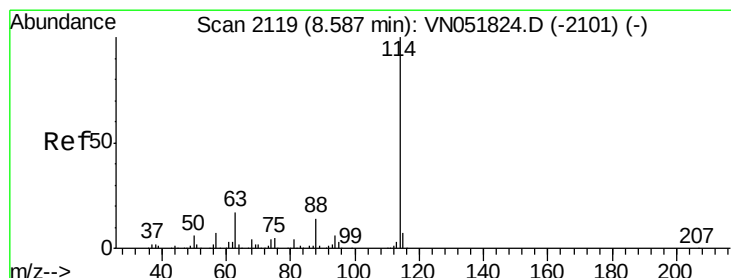
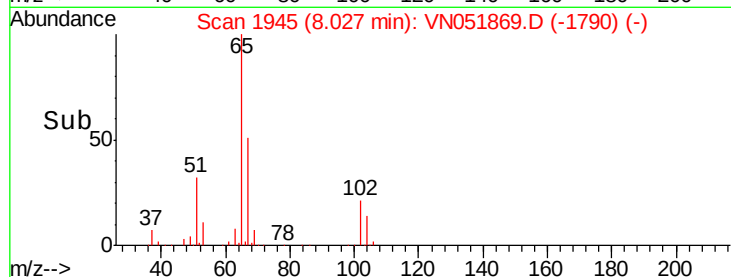
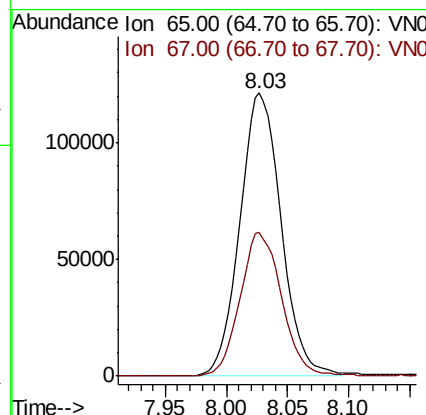
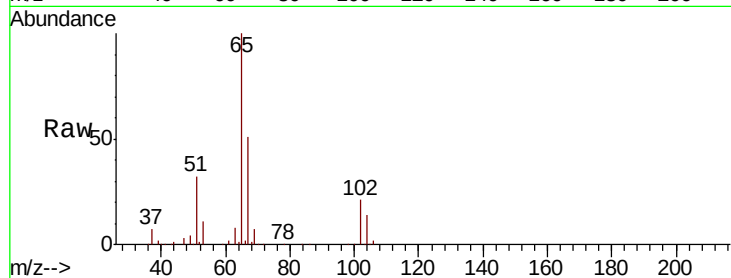
ClientSampled :

Tot Ion: 65 Resp: 284369

Ion Ratio Lower Upper

65 100

67 50.9 41.8 62.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

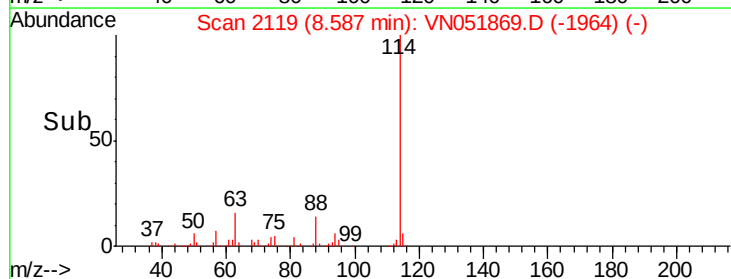
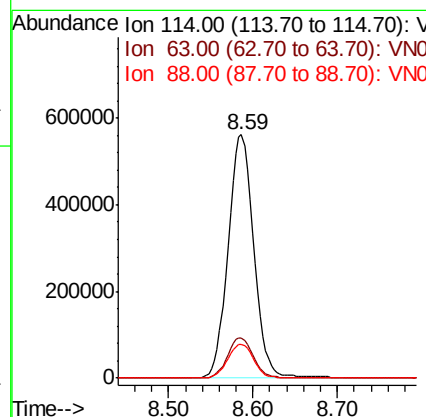
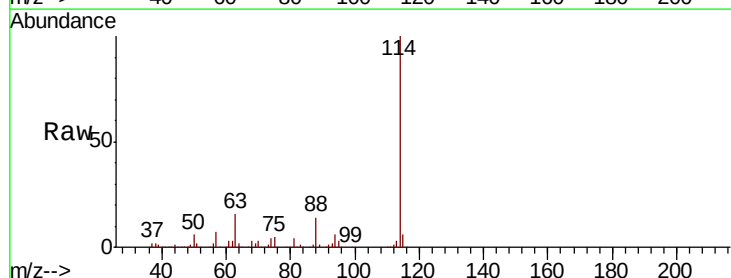
Tgt Ion: 114 Resp: 1189032

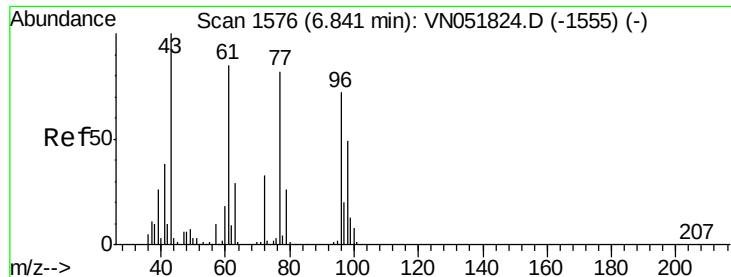
Ion Ratio Lower Upper

114 100

63 16.6 16.2 24.2

88 14.3 12.2 18.4

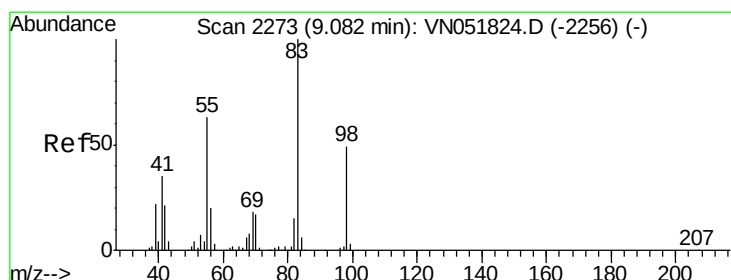
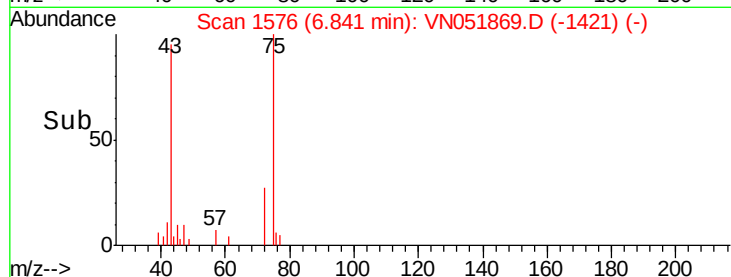
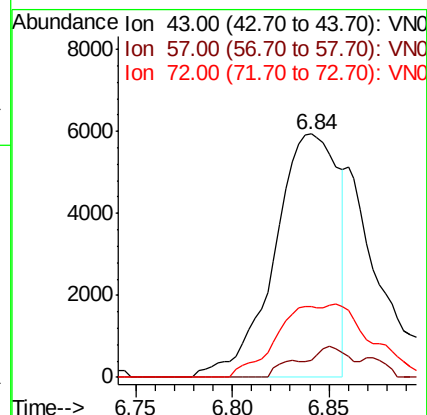
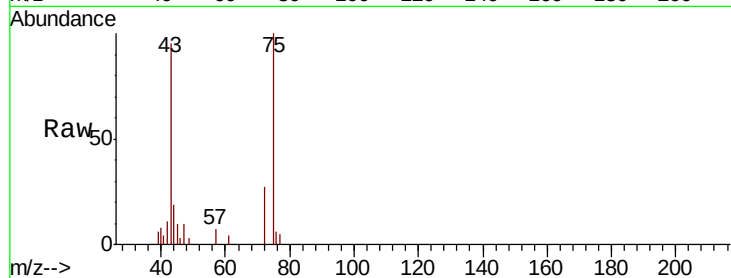




#30
 2-Butanone
 Concen: 4.253 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

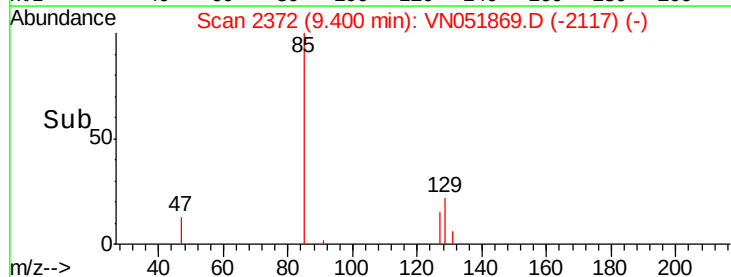
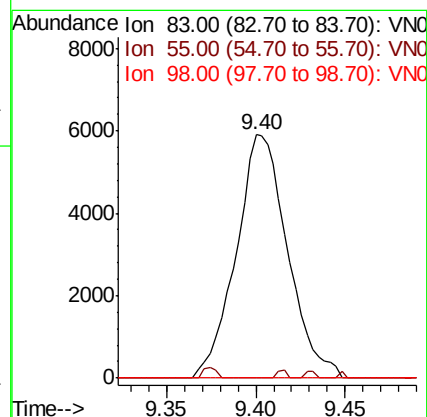
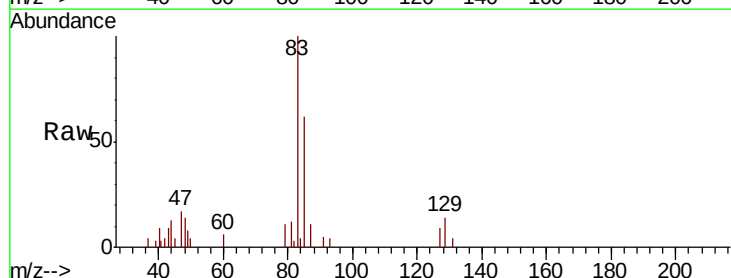
Instrument :
 MSVOA_N
 ClientSampleId :

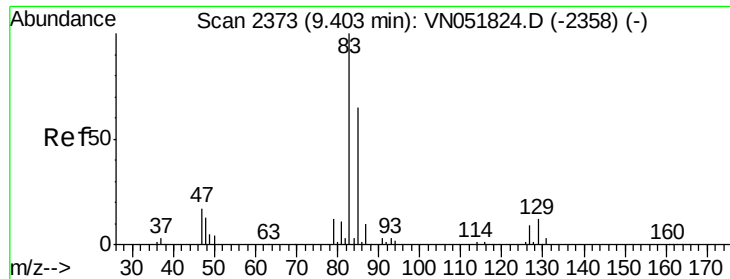
Tot Ion: 43 Resp: 13624
 Ion Ratio Lower Upper
 43 100
 57 3.0 4.5 6.7#
 72 19.9 21.5 32.3#



#38
 Methylcyclohexane
 Concen: 0.605 ug/l
 RT: 9.40 min Scan# 2372
 Delta R.T. 0.32 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

Tgt Ion: 83 Resp: 11891
 Ion Ratio Lower Upper
 83 100
 55 0.6 43.0 129.2#
 98 0.0 21.3 63.7#

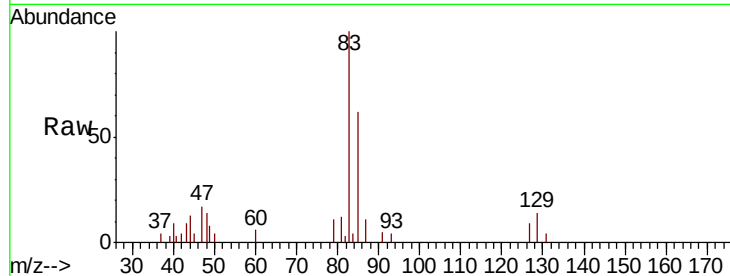




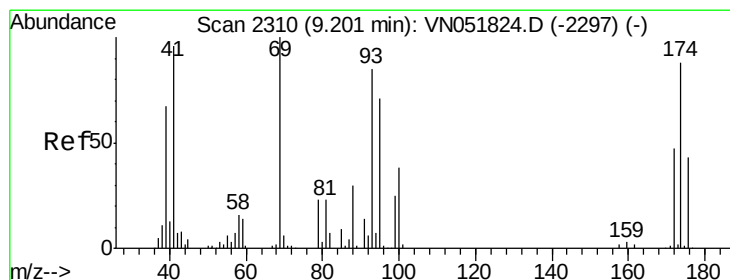
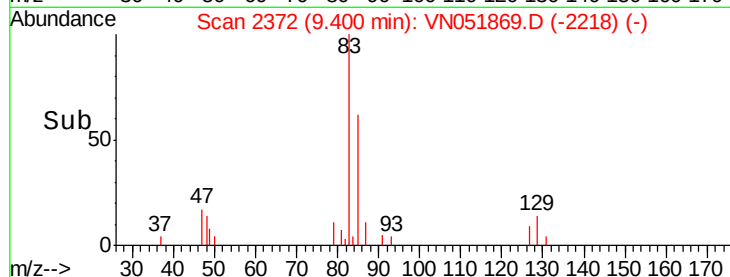
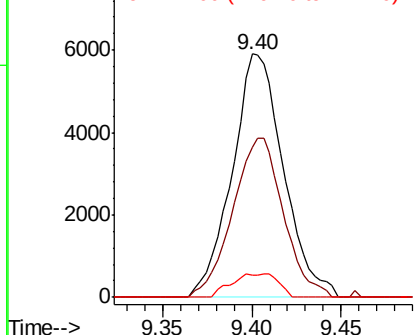
#41
 Bromodichloromethane
 Concen: 0.727 ug/l
 RT: 9.40 min Scan# 2372
 Delta R.T. -0.00 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 83 Resp: 11891
 Ion Ratio Lower Upper
 83 100
 85 61.9 55.7 83.5
 127 9.1 8.2 12.4

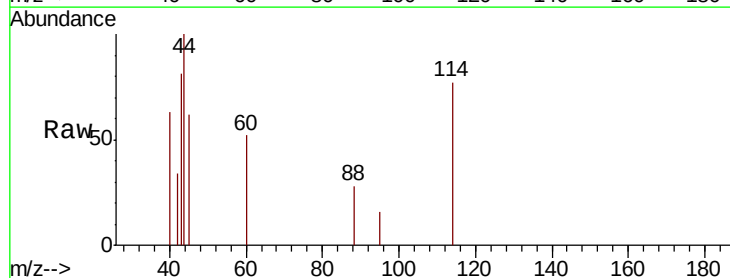


Abundance Ion 83.00 (82.70 to 83.70): VN0
 Ion 85.00 (84.70 to 85.70): VN0
 Ion 127.00 (126.70 to 127.70): V

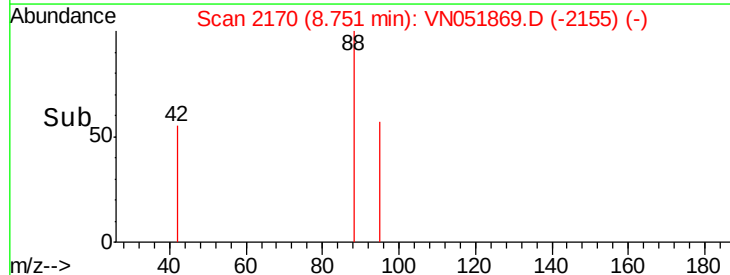
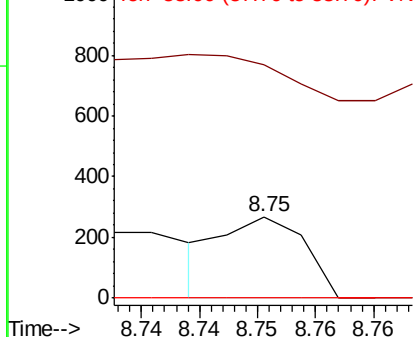


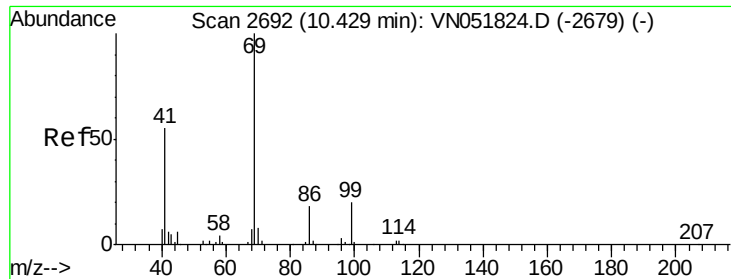
#45
 1,4-Dioxane
 Concen: 1.183 ug/l
 RT: 8.75 min Scan# 2170
 Delta R.T. -0.45 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

Tgt Ion: 88 Resp: 132
 Ion Ratio Lower Upper
 88 100
 43 67.4 26.2 39.2#
 58 0.0 65.6 98.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0





#51

Ethyl methacrylate

Concen: 0.346 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

Instrument :

MSVOA_N

ClientSampleId :

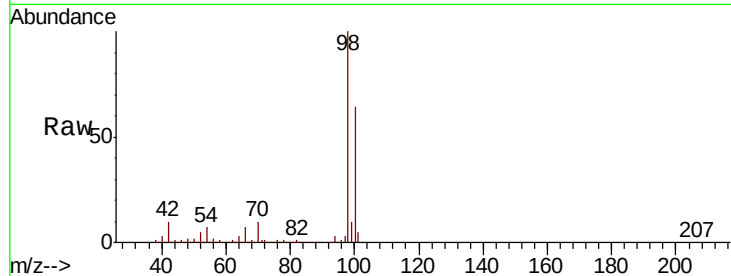
Tot Ion: 69 Resp: 4333

Ion Ratio Lower Upper

69 100

41 83.0 34.4 103.1

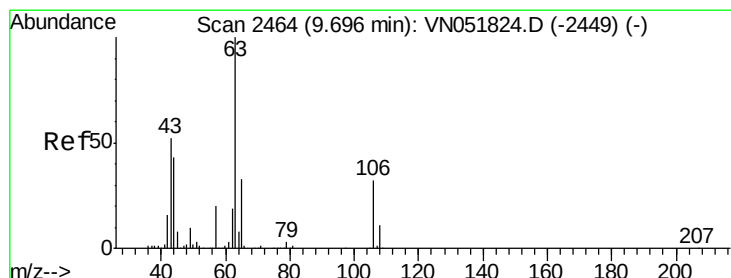
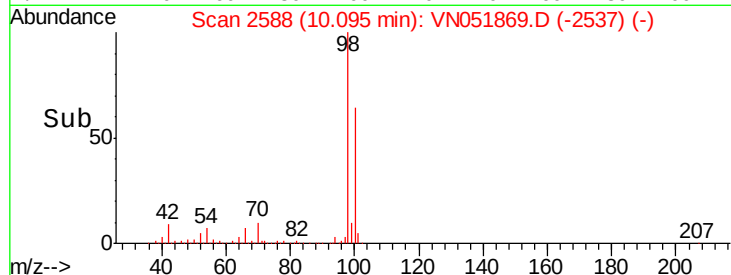
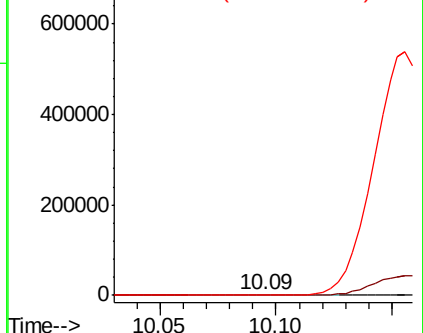
39 29.5 16.3 48.8



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#55

2-Chloroethyl vinyl ether

Concen: 0.242 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.39 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

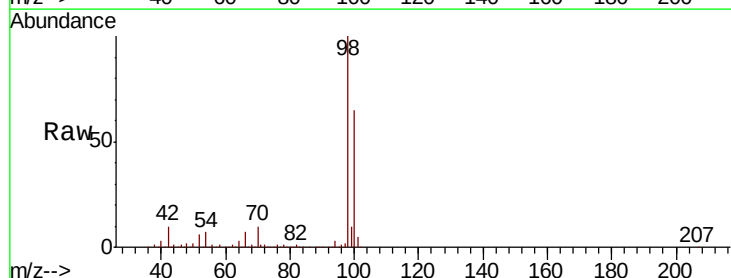
Tgt Ion: 63 Resp: 1297

Ion Ratio Lower Upper

63 100

65 222.8 25.4 38.0#

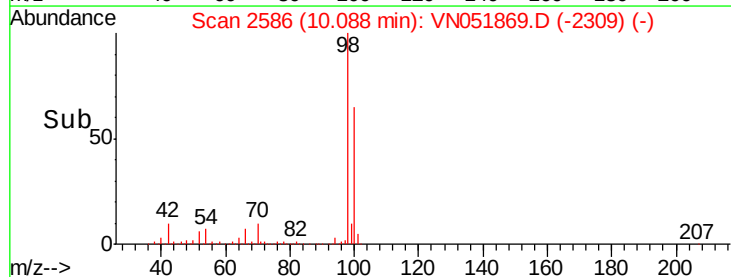
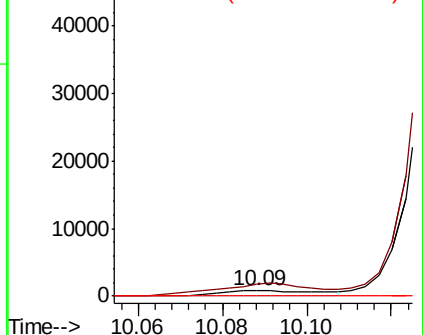
106 0.0 21.2 31.8#

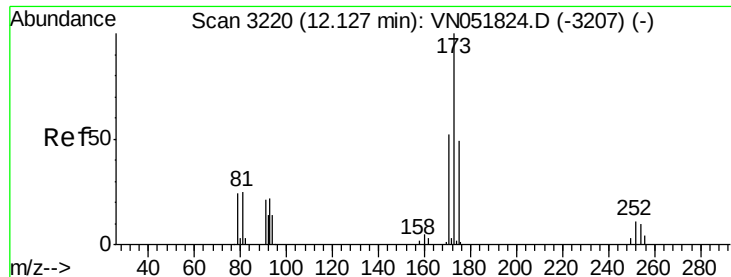


Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

Ion 106.00 (105.70 to 106.70): V





#56

Bromoform

Concen: 0.437 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

Instrument :

MSVOA_N

ClientSampled :

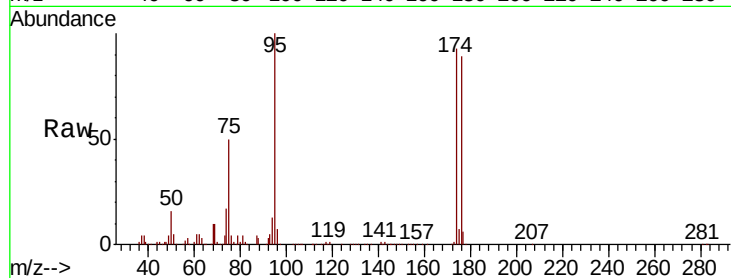
Tot Ion:173 Resp: 3906

Ion Ratio Lower Upper

173 100

175 829.1 35.8 53.8#

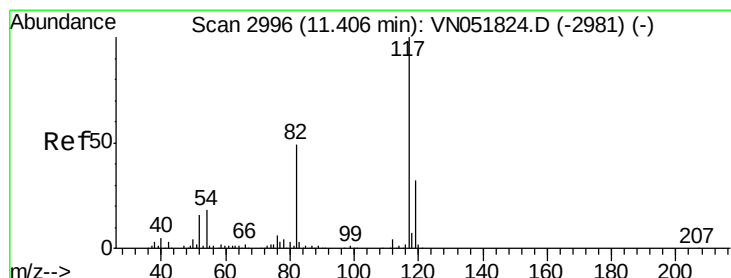
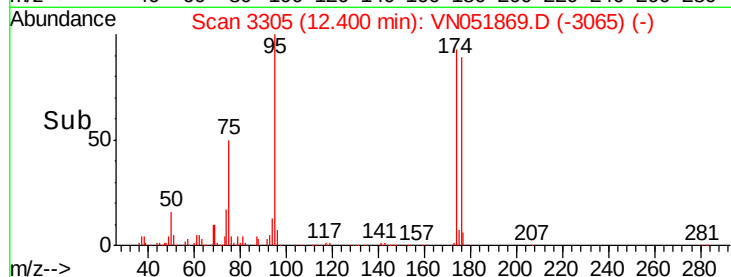
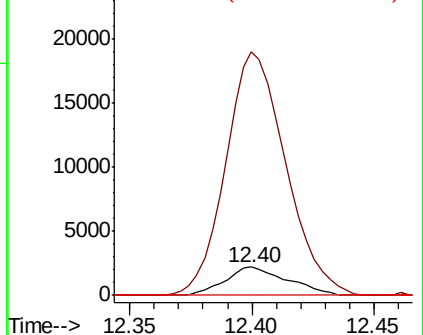
254 0.0 8.6 13.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

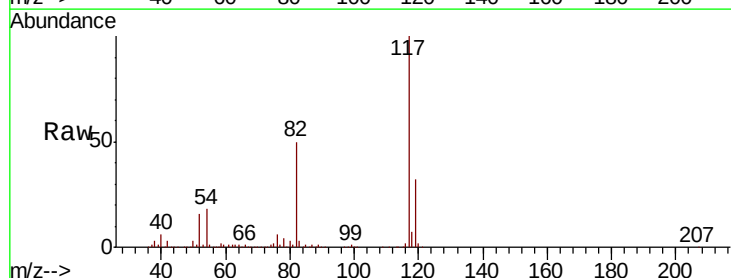
Tgt Ion:117 Resp: 1142627

Ion Ratio Lower Upper

117 100

82 50.0 44.1 66.1

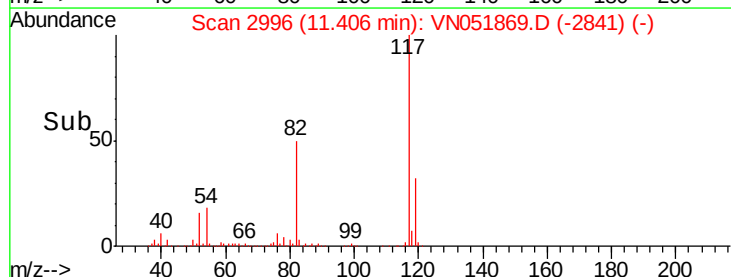
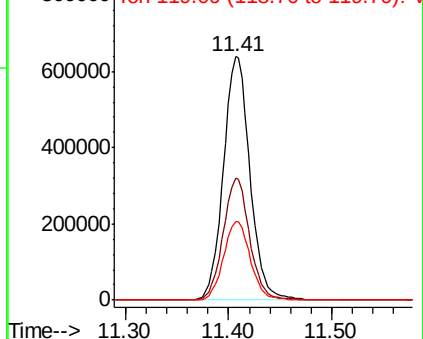
119 32.8 25.8 38.8

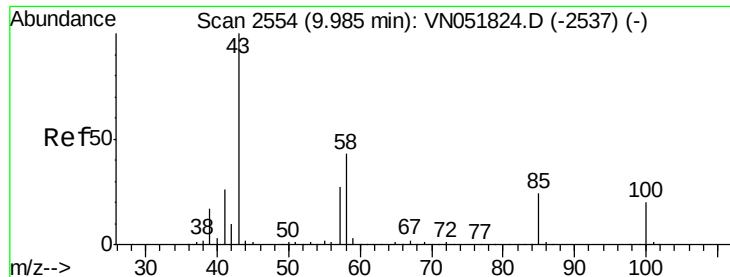


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

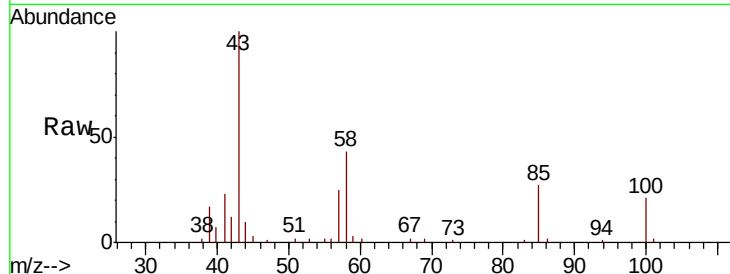




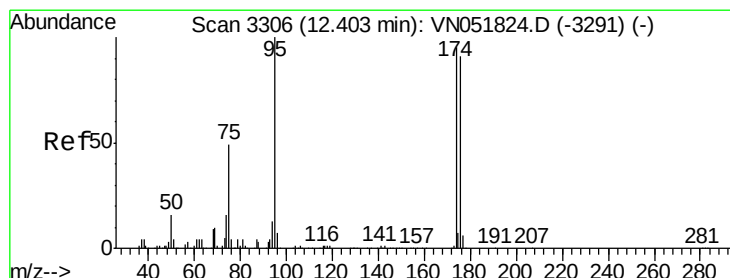
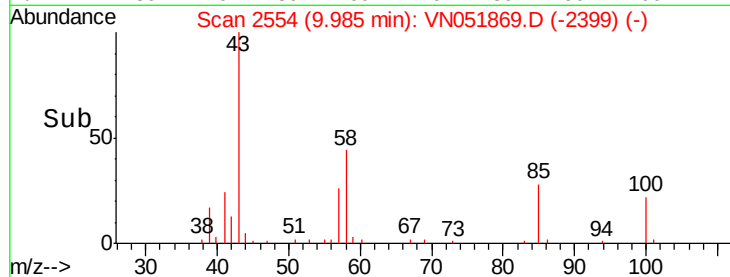
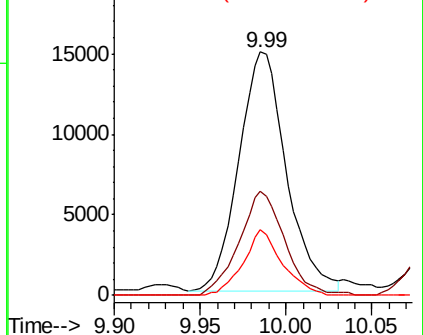
#58
4-Methyl-2-Pentanone
Concen: 3.712 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051869.D
Acq: 15 Oct 2018 13:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 28383
Ion Ratio Lower Upper
43 100
58 41.5 29.3 43.9
85 22.5 12.6 18.8#

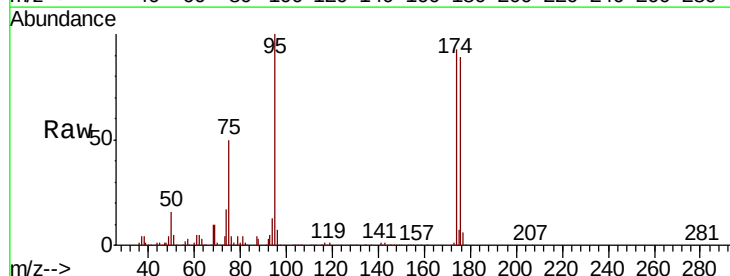


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 85.00 (84.70 to 85.70): VN0

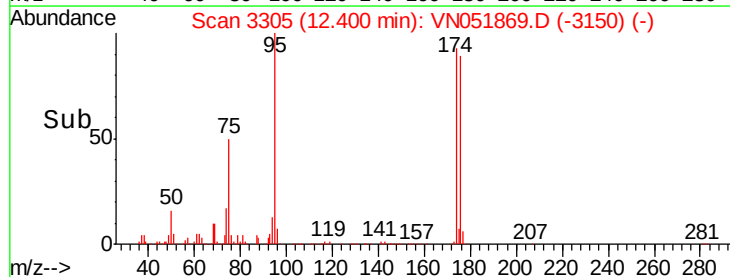
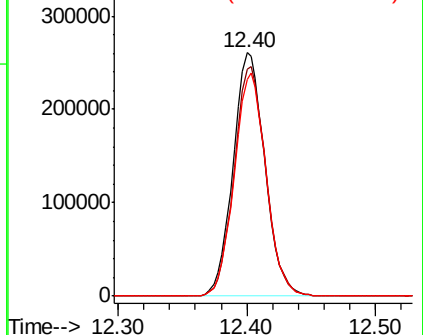


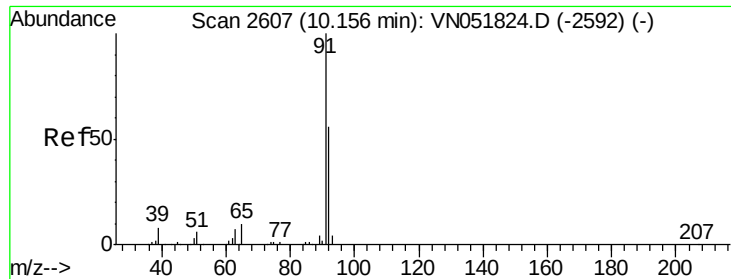
#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051869.D
Acq: 15 Oct 2018 13:08

Tgt Ion: 95 Resp: 445876
Ion Ratio Lower Upper
95 100
174 94.4 73.5 110.3
176 91.7 70.2 105.2



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





#62

Toluene

Concen: 229.321 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

Instrument :

MSVOA_N

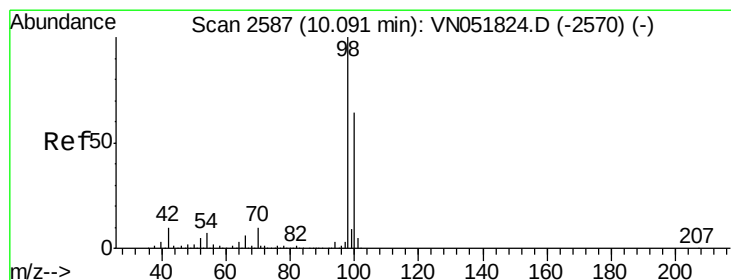
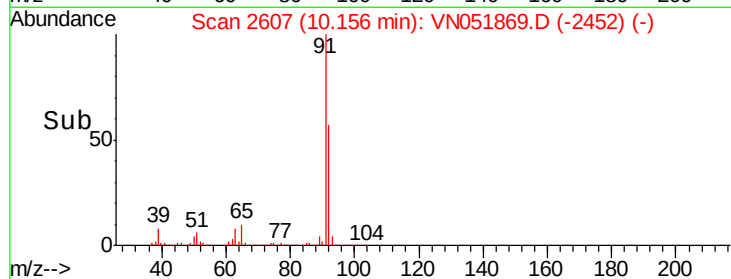
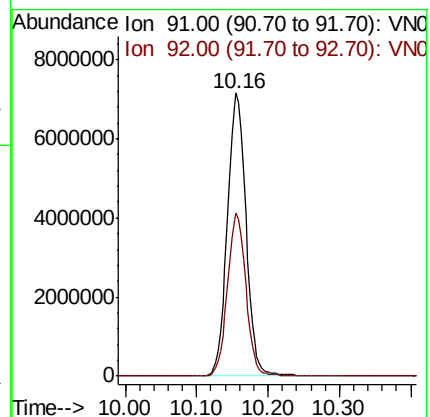
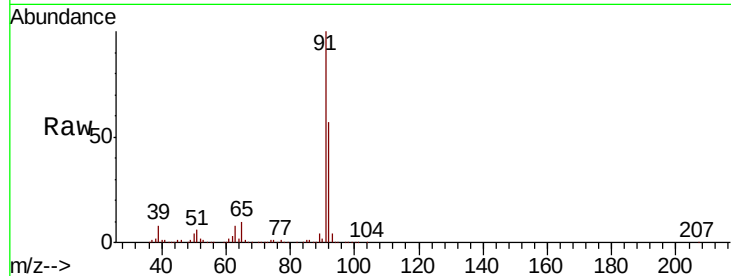
ClientSampleId :

Tot Ion: 91 Resp:13017199

Ion Ratio Lower Upper

91 100

92 57.2 44.6 66.8



#63

Toluene-d8

Concen: 229.321 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051869.D

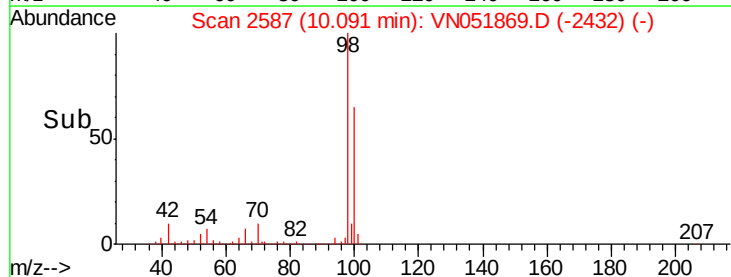
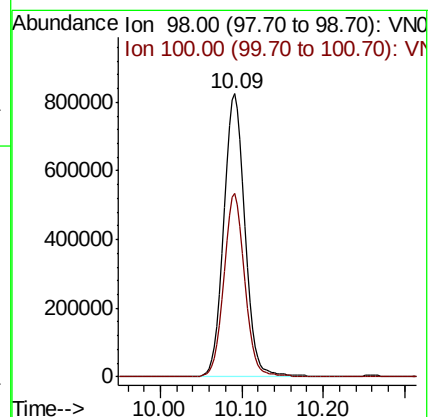
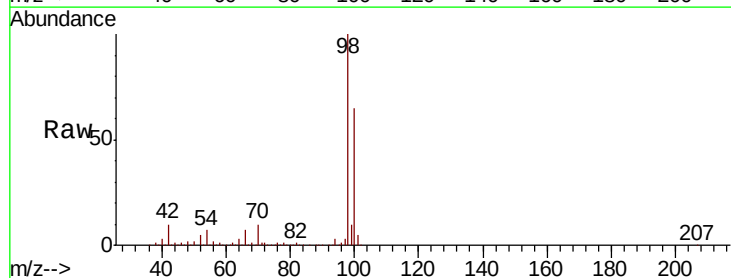
Acq: 15 Oct 2018 13:08

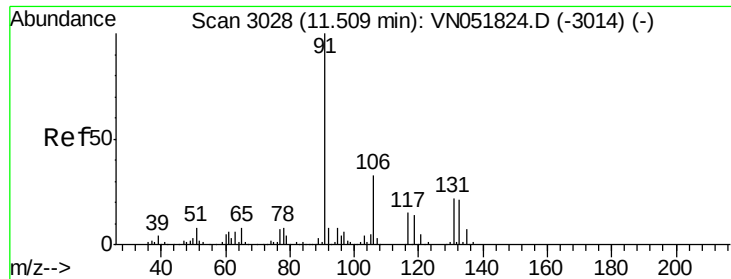
Tgt Ion: 98 Resp: 1526257

Ion Ratio Lower Upper

98 100

100 63.7 50.8 76.2





#66

Ethyl Benzene

Concen: 0.226 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

Instrument :

MSVOA_N

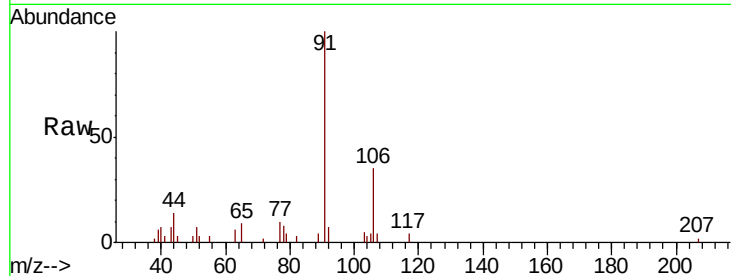
ClientSampleId :

Tot Ion: 91 Resp: 14156

Ion Ratio Lower Upper

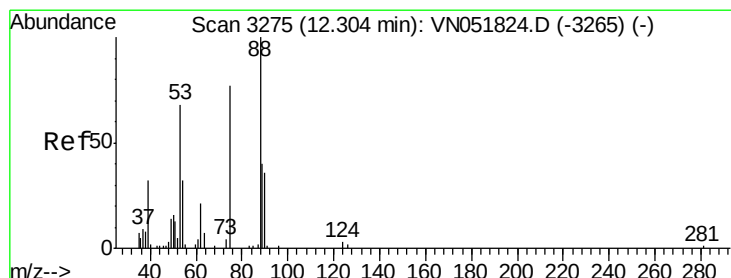
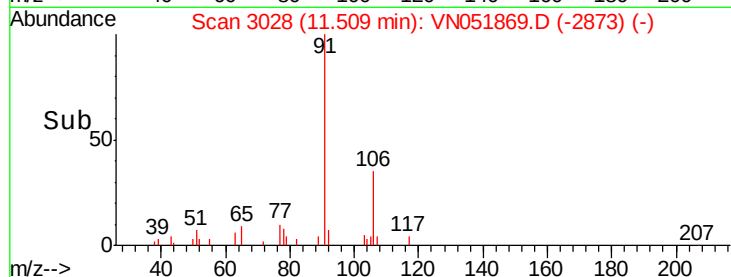
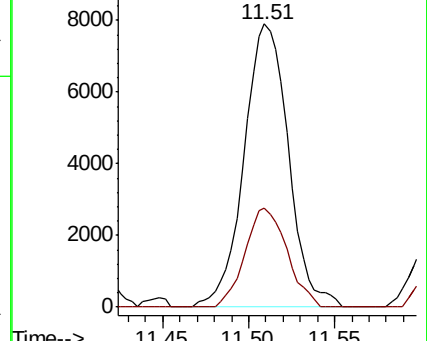
91 100

106 35.2 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): VN



#77

t-1,4-Dichloro-2-butene

Concen: 64.434 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051869.D

Acq: 15 Oct 2018 13:08

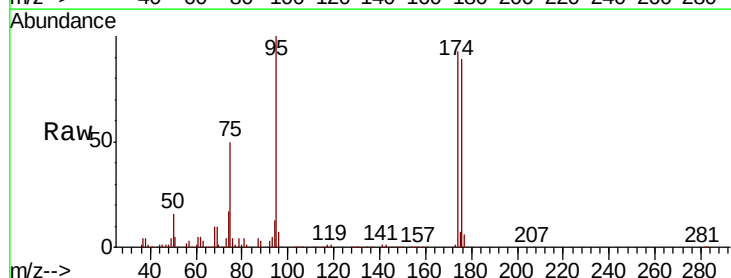
Tgt Ion: 75 Resp: 221370

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

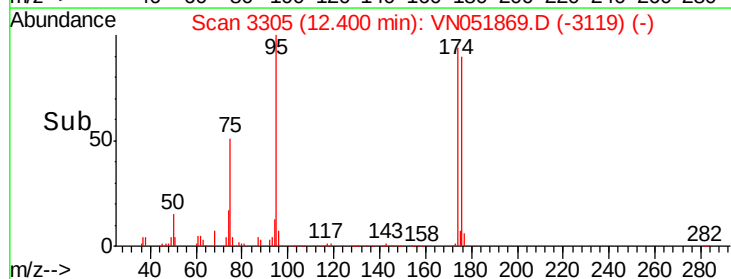
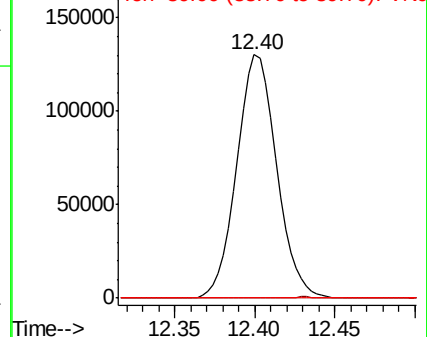
89 0.0 24.6 73.8#

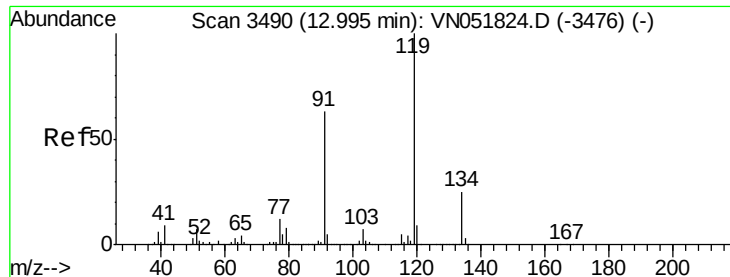


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

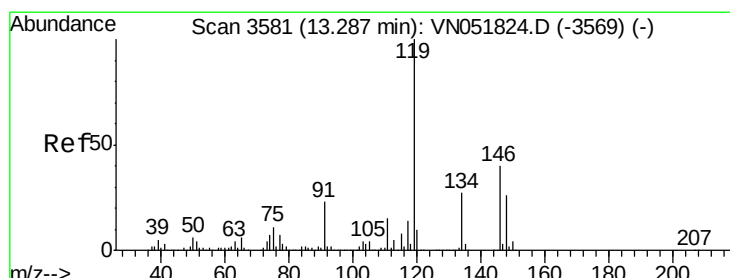
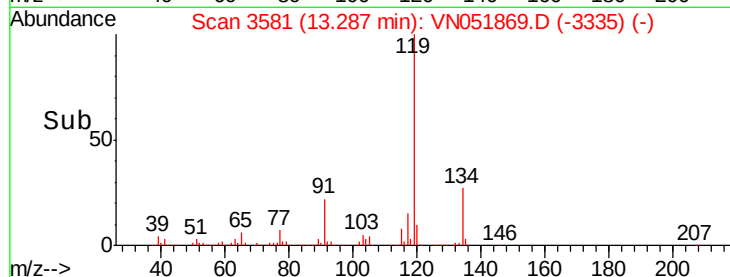
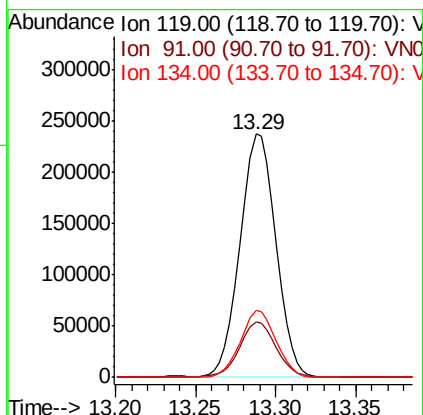
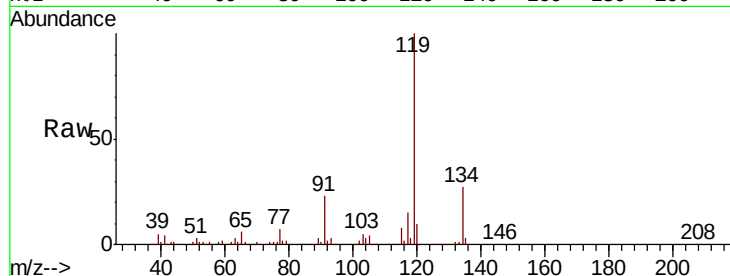




#79
tert-butylbenzene
Concen: 7.114 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.29 min
Lab File: VN051869.D
Acq: 15 Oct 2018 13:08

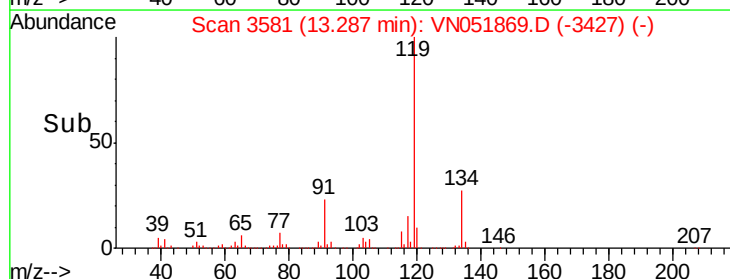
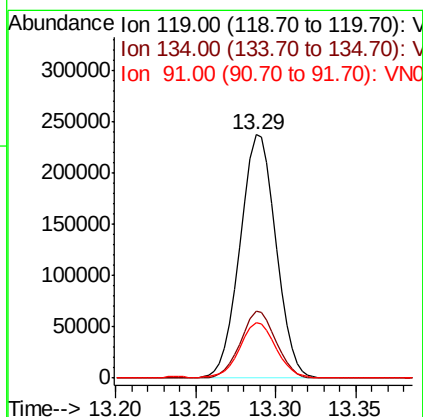
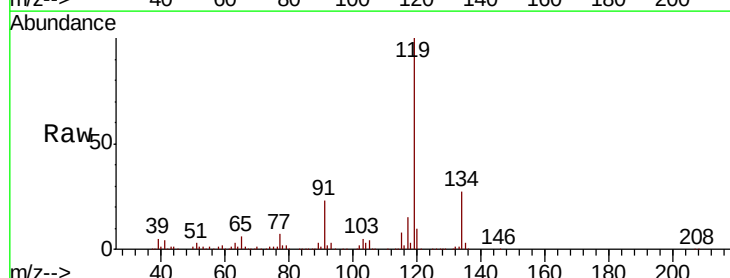
Instrument :
MSVOA_N
ClientSampleId :

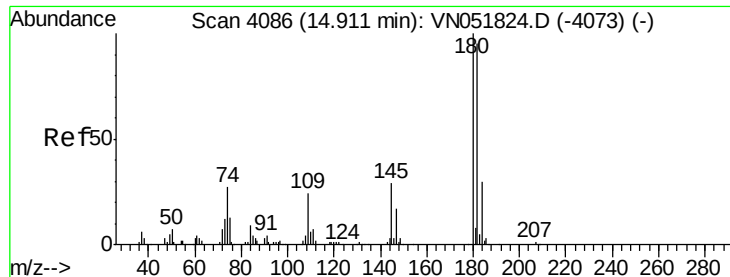
Tot Ion:119 Resp: 361754
Ion Ratio Lower Upper
119 100
91 23.1 0.0 131.6
134 27.1 0.0 46.2



#82
p-Isopropyltoluene
Concen: 6.078 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.00 min
Lab File: VN051869.D
Acq: 15 Oct 2018 13:08

Tgt Ion:119 Resp: 361754
Ion Ratio Lower Upper
119 100
134 27.1 0.0 53.6
91 23.1 0.0 52.0

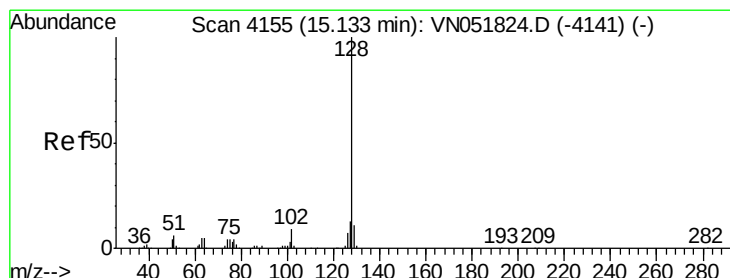
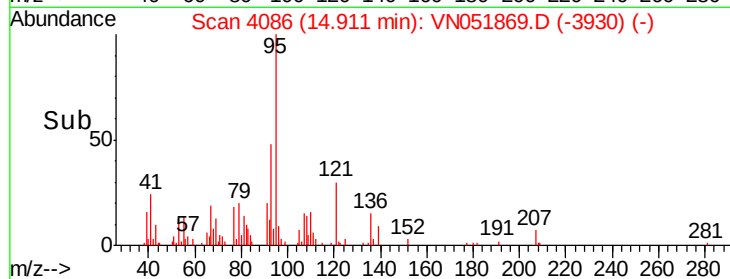
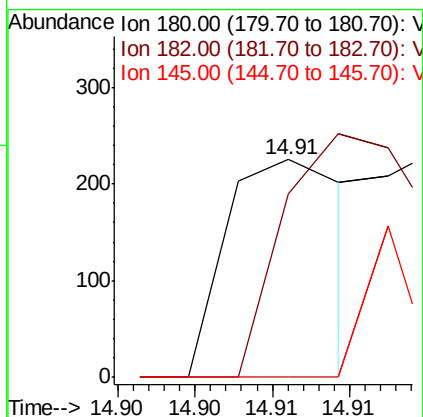
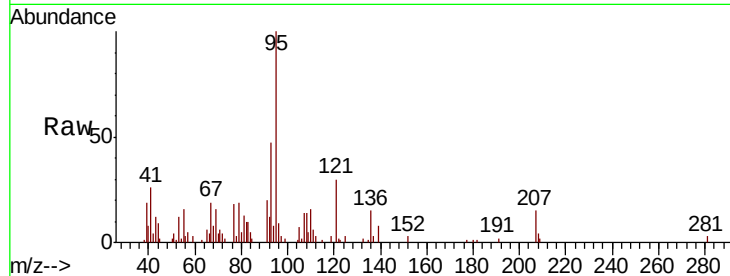




#89
 1,2,4-Trichlorobenzene
 Concen: 7.734 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 122
 Ion Ratio Lower Upper
 180 100
 182 133.6 77.7 116.5#
 145 0.0 23.4 35.2#



#91
 Naphthalene
 Concen: 8.587 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN051869.D
 Acq: 15 Oct 2018 13:08

Tgt Ion:128 Resp: 2063
 Ion Ratio Lower Upper
 128 100
 127 8.1 10.1 15.1#
 129 5.6 8.4 12.6#

