

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051867.D
 Acq On : 15 Oct 2018 12:02
 Operator : MD\SY
 Sample : J5512-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:45:06 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	116505	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	649953	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	544880	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	216295	30.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.70%
60) 4-Bromofluorobenzene	12.40	95	199122	25.34	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	84.47%
63) Toluene-d8	10.09	98	737924	31.19	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.97%

Target Compounds

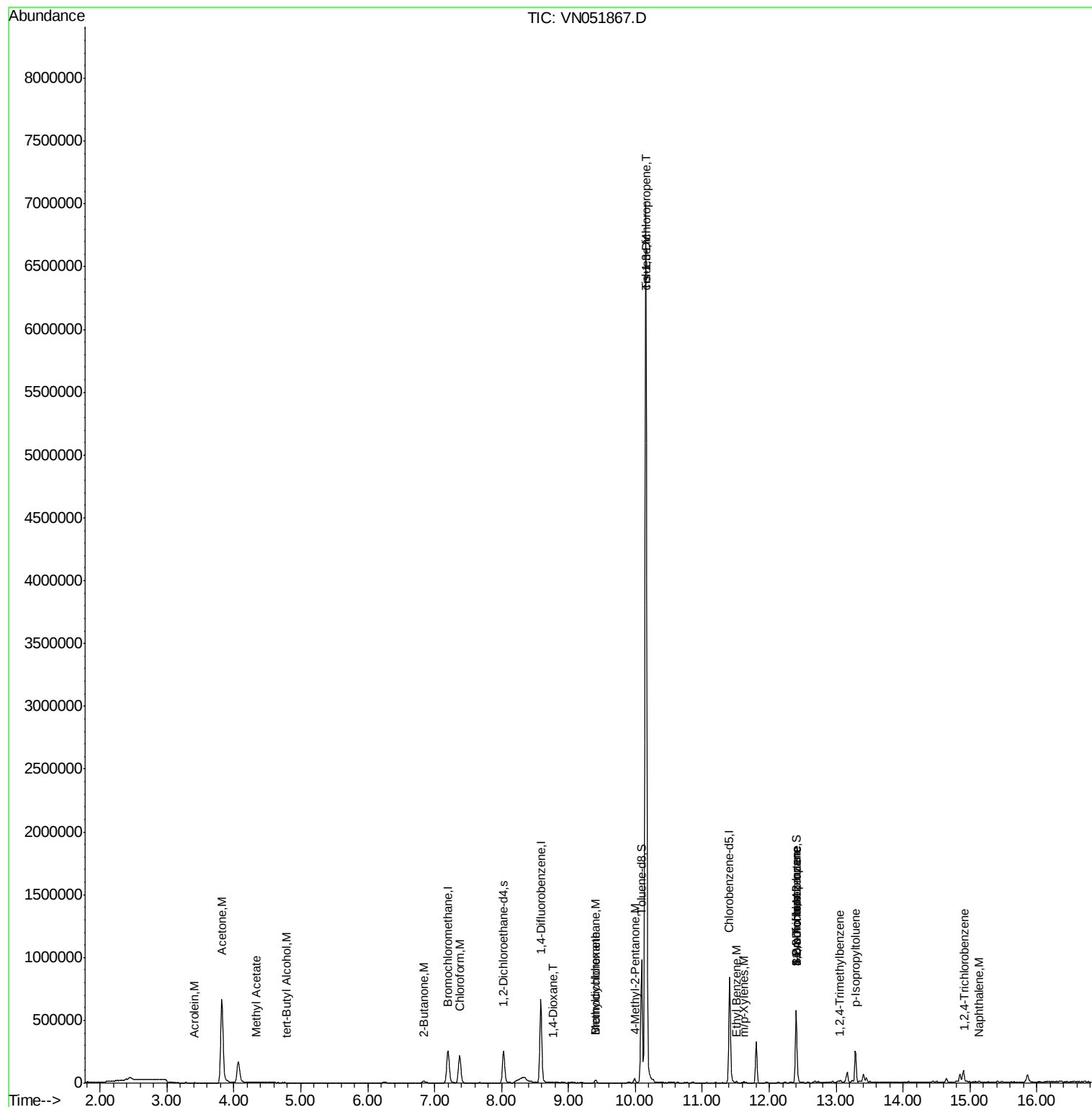
					Ovalue	
12) Methyl Acetate	4.33	43	2795	0.839	ug/l	93
13) Acrolein	3.41	56	108	0.492	ug/l	89
15) Acetone	3.82	58	366197	995.084	ug/l	96
23) tert-Butyl Alcohol	4.79	59	142	0.362	ug/l #	100
25) Chloroform	7.37	83	237228	20.177	ug/l	94
30) 2-Butanone	6.85	43	11042	6.306	ug/l #	86
38) Methylcyclohexane	9.40	83	15678	1.459	ug/l #	16
41) Bromodichloromethane	9.40	83	15678	1.752	ug/l	95
45) 1,4-Dioxane	8.76	88	61	1.000	ug/l #	1
49) cis-1,3-Dichloropropene	10.16	75	36279	3.772	ug/l #	1
56) Bromoform	12.40	173	2098	0.430	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	20473	5.615	ug/l #	88
62) Toluene	10.16	91	5713674	211.079	ug/l	99
66) Ethyl Benzene	11.51	91	7121	0.238	ug/l	93
67) m/p-Xylenes	11.61	106	2688	0.222	ug/l	80
72) 1,2,3-Trichloropropane	12.40	75	98569	19.898	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	98569	60.165	ug/l #	12
80) 1,2,4-Trimethylbenzene	13.04	105	5275	0.200	ug/l	81
82) p-Isopropyltoluene	13.29	119	150727	5.310	ug/l	97
89) 1,2,4-Trichlorobenzene	14.92	180	113	7.740	ug/l #	1
91) Naphthalene	15.14	128	2123	8.649	ug/l	96

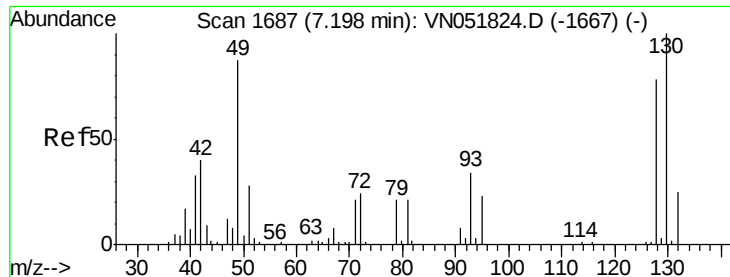
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
Data File : VN051867.D
Acq On : 15 Oct 2018 12:02
Operator : MD\SY
Sample : J5512-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Oct 16 00:45:06 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

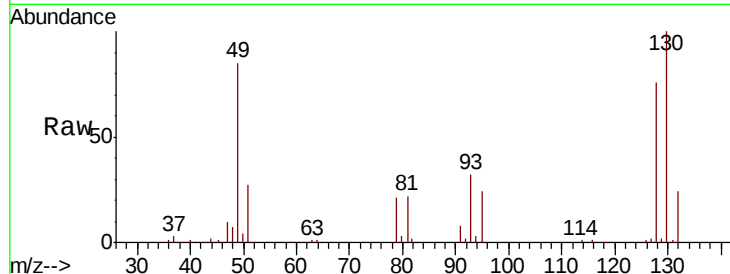




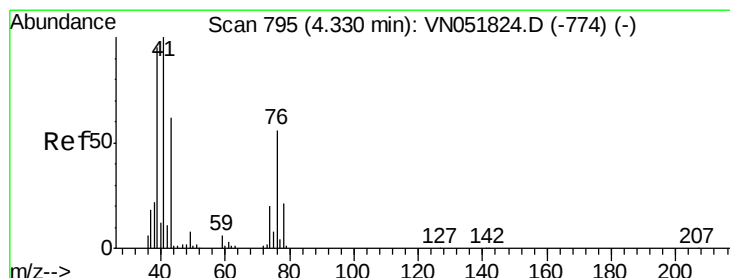
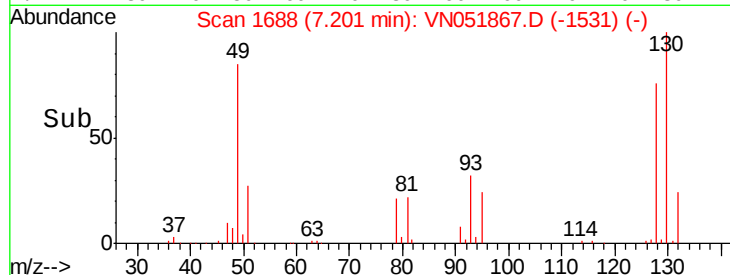
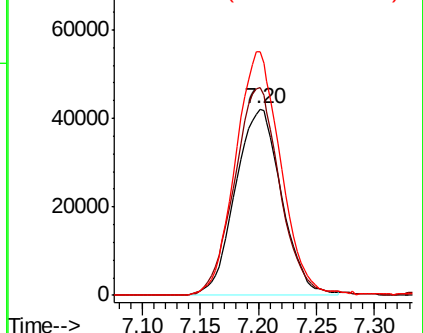
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.20 min Scan# 1688
 Delta R.T. 0.00 min
 Lab File: VN051867.D
 Acq: 15 Oct 2018 12:02

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:128 Resp: 116505
 Ion Ratio Lower Upper
 128 100
 49 110.2 0.0 403.3
 130 127.5 0.0 326.0

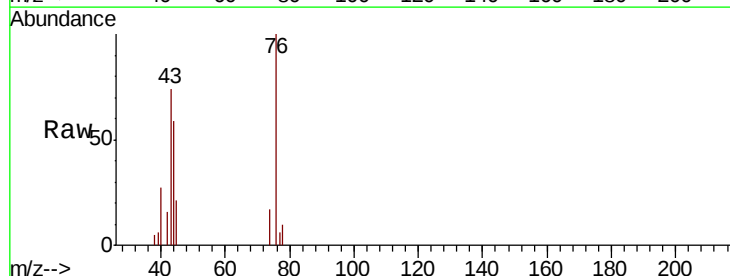


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

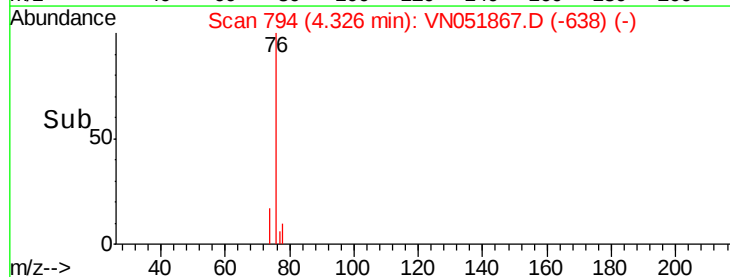
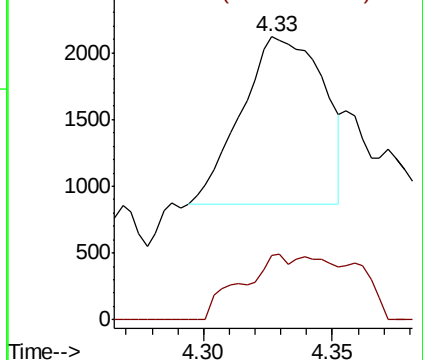


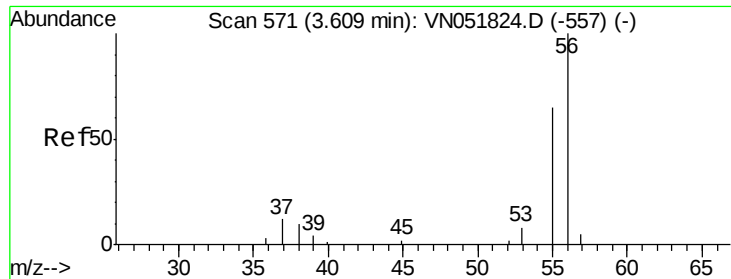
#12
 Methyl Acetate
 Concen: 0.839 ug/l
 RT: 4.33 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VN051867.D
 Acq: 15 Oct 2018 12:02

Tgt Ion: 43 Resp: 2795
 Ion Ratio Lower Upper
 43 100
 74 30.9 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 74.00 (73.70 to 74.70): VN





#13

Acrolein

Concen: 0.492 ug/l

RT: 3.41 min Scan# 509

Delta R.T. -0.20 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

Instrument :

MSVOA_N

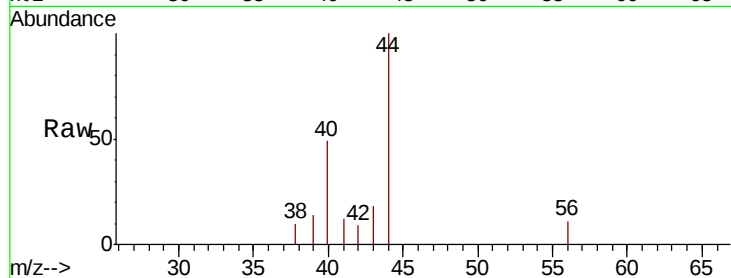
ClientSampled :

Tot Ion: 56 Resp: 108

Ion Ratio Lower Upper

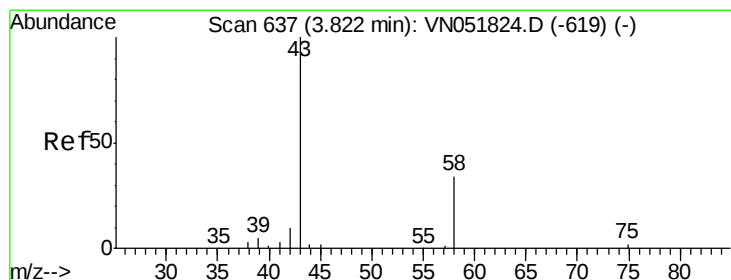
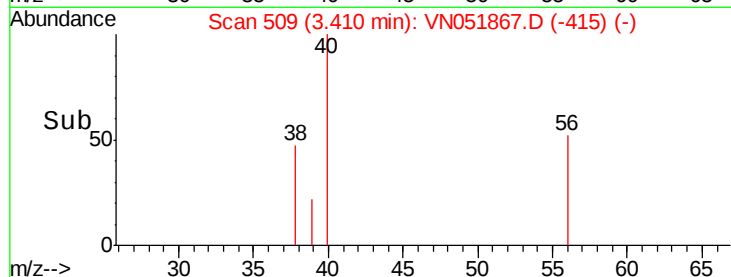
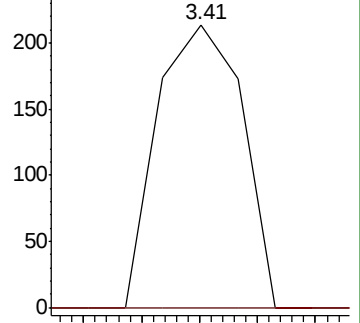
56 100

55 89.8 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 995.084 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051867.D

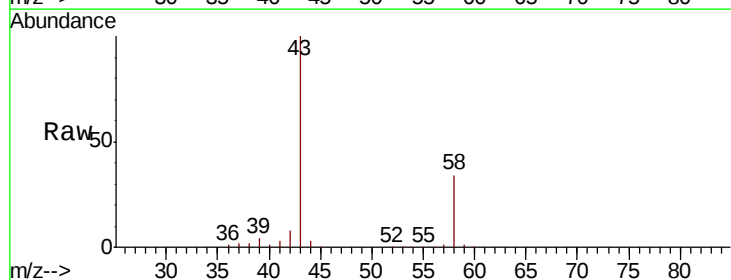
Acq: 15 Oct 2018 12:02

Tgt Ion: 58 Resp: 366197

Ion Ratio Lower Upper

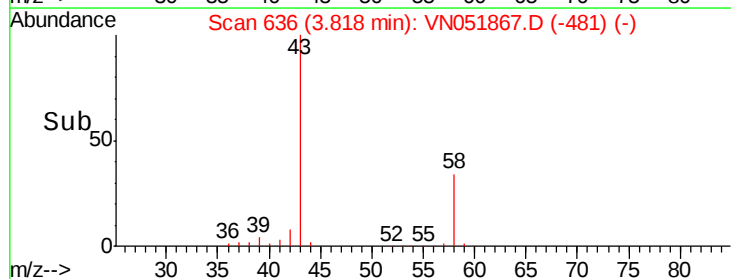
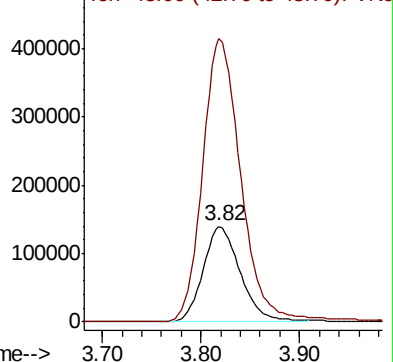
58 100

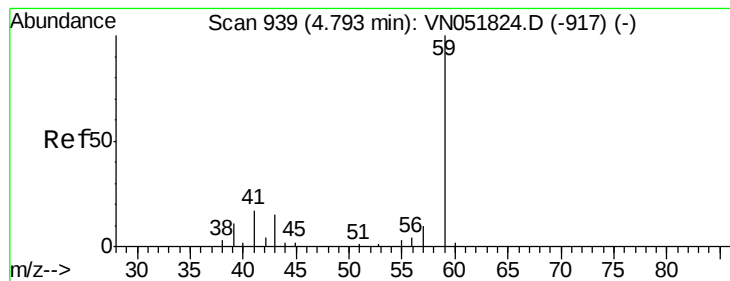
43 297.1 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



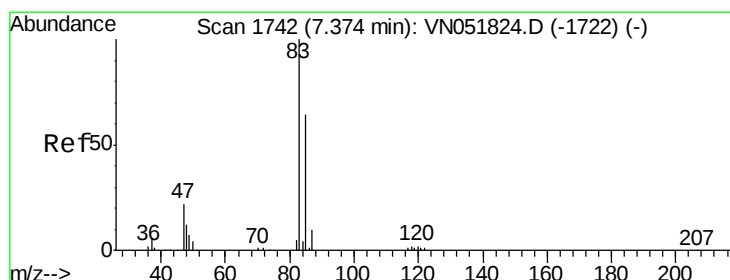
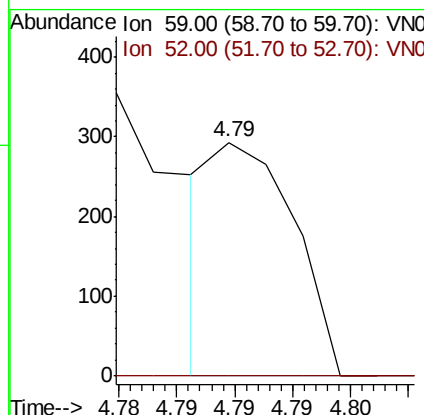
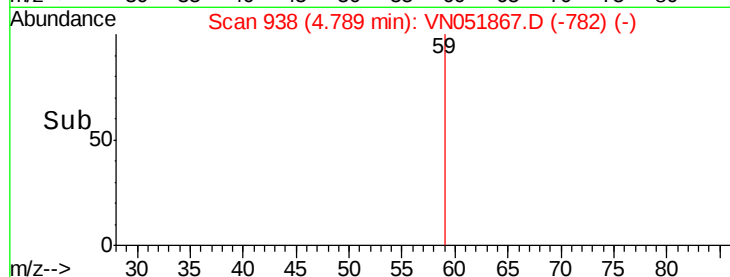
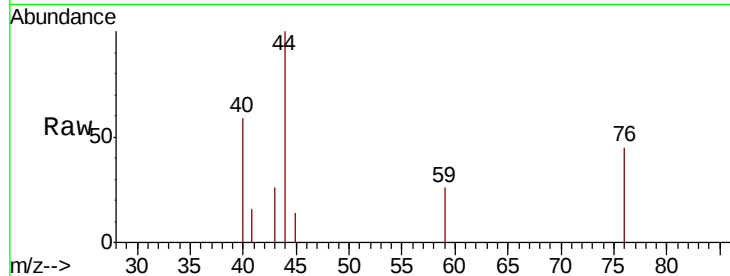


#23

tert-Butyl Alcohol
 Concen: 0.362 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VN051867.D
 Acq: 15 Oct 2018 12:02

Instrument :
 MSVOA_N
 ClientSampled :

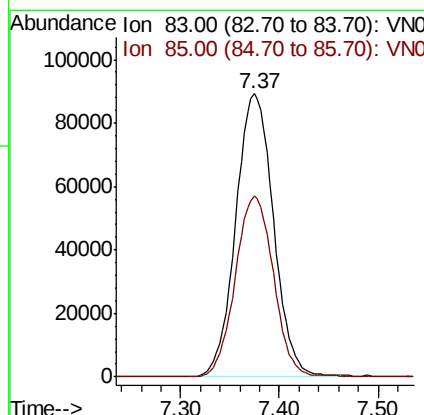
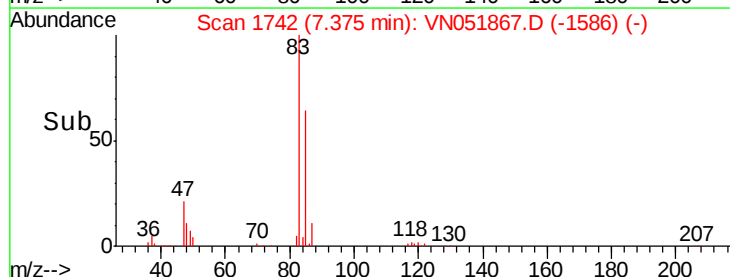
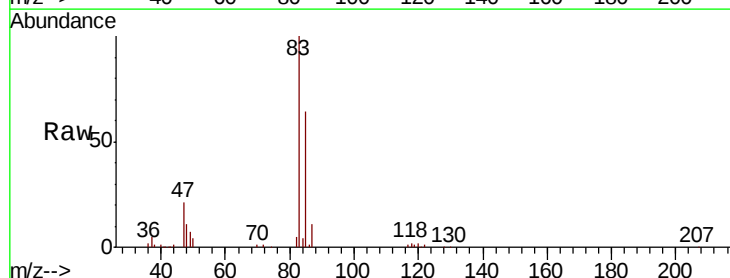
Tot Ion: 59 Resp: 142
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

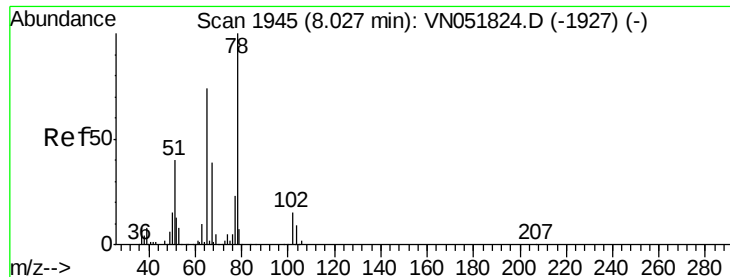


#25

Chloroform
 Concen: 20.177 ug/l
 RT: 7.37 min Scan# 1742
 Delta R.T. 0.00 min
 Lab File: VN051867.D
 Acq: 15 Oct 2018 12:02

Tgt Ion: 83 Resp: 237228
 Ion Ratio Lower Upper
 83 100
 85 63.8 54.6 82.0





#27

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

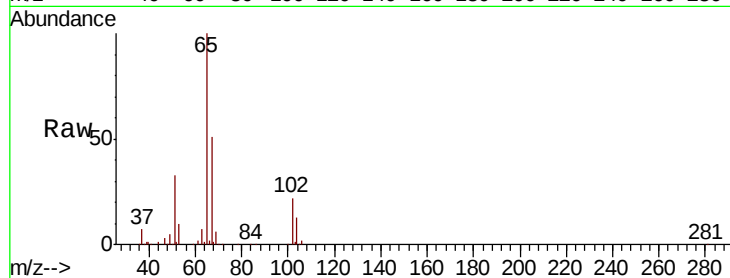
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 216295

Ion Ratio Lower Upper

65 100

67 52.9 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.03

100000

80000

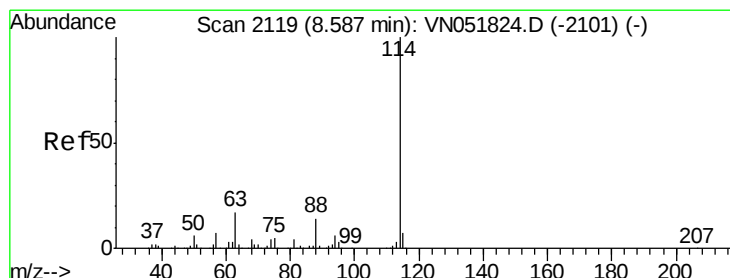
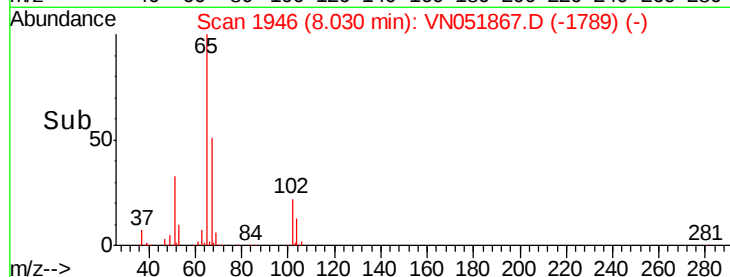
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

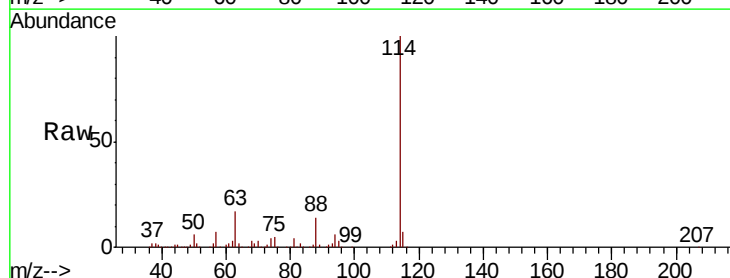
Tgt Ion:114 Resp: 649953

Ion Ratio Lower Upper

114 100

63 16.6 16.2 24.2

88 14.3 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

8.59

400000

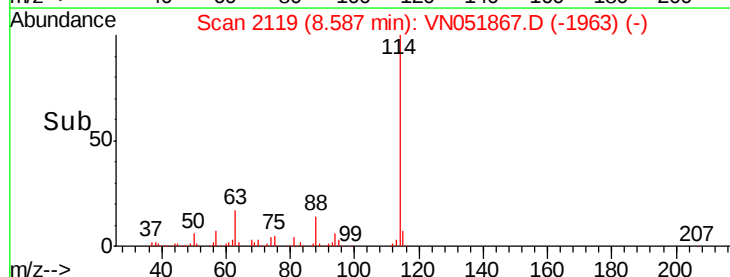
300000

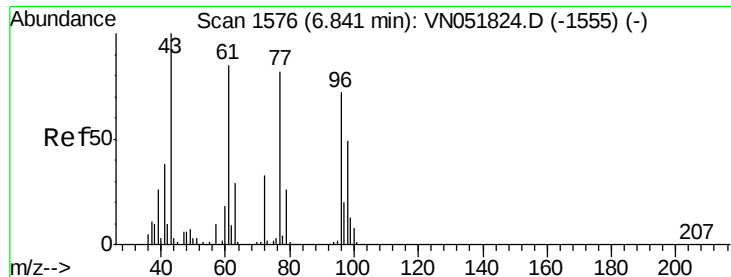
200000

100000

0

Time-->

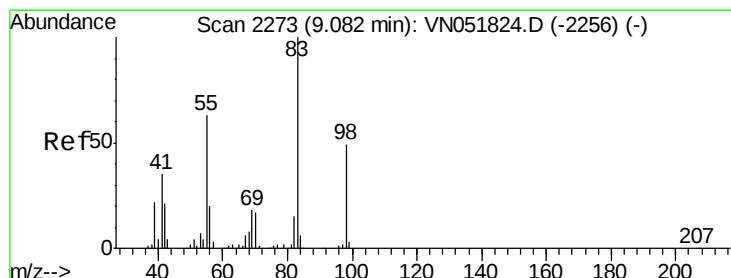
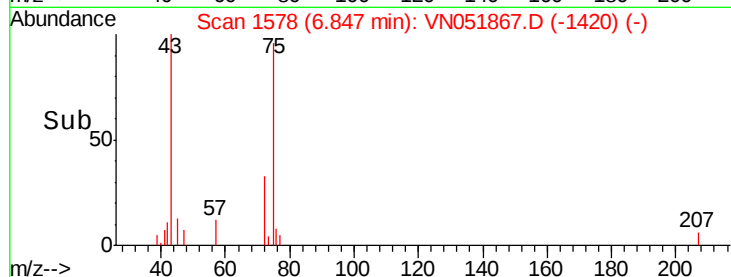
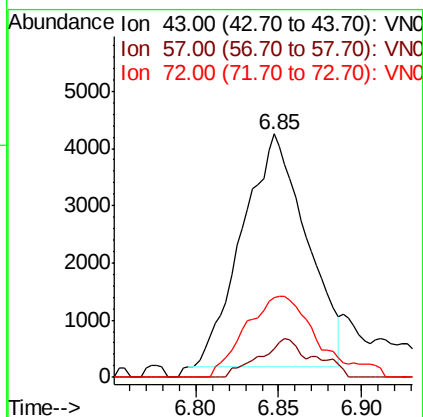
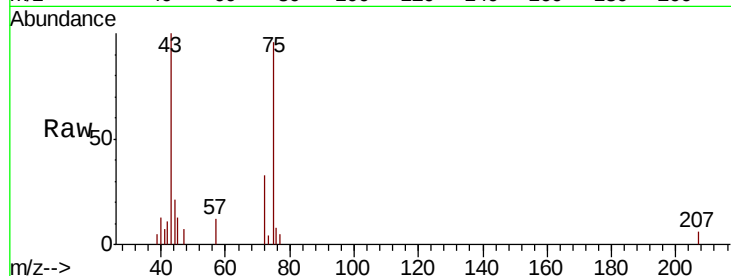




#30
2-Butanone
Concen: 6.306 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051867.D
Acq: 15 Oct 2018 12:02

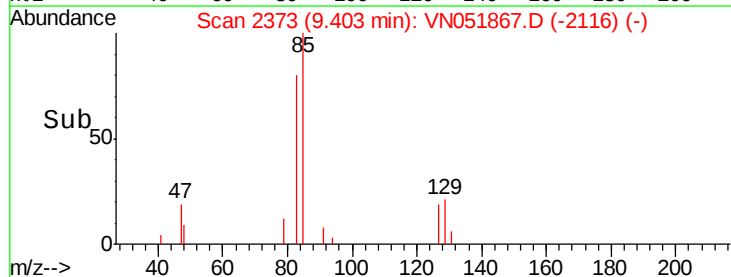
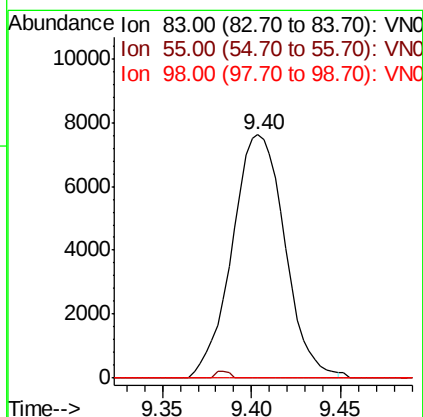
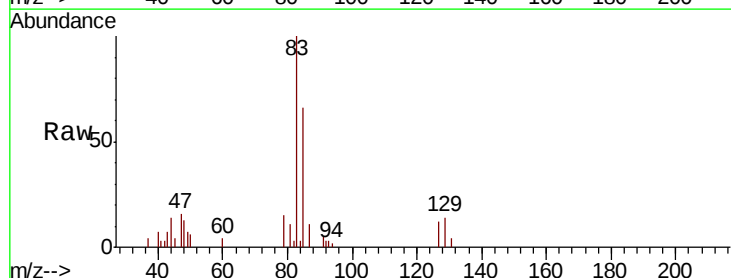
Instrument :
MSVOA_N
ClientSampled :

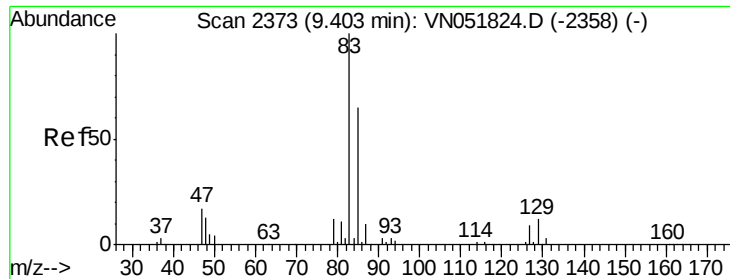
Tot Ion: 43 Resp: 11042
Ion Ratio Lower Upper
43 100
57 10.4 4.5 6.7#
72 34.3 21.5 32.3#



#38
Methylcyclohexane
Concen: 1.459 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.32 min
Lab File: VN051867.D
Acq: 15 Oct 2018 12:02

Tgt Ion: 83 Resp: 15678
Ion Ratio Lower Upper
83 100
55 0.7 43.0 129.2#
98 0.0 21.3 63.7#





#41

Bromodichloromethane

Concen: 1.752 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

Instrument :

MSVOA_N

ClientSampleId :

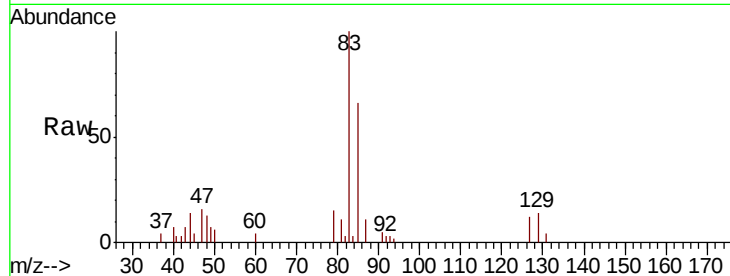
Tot Ion: 83 Resp: 15678

Ion Ratio Lower Upper

83 100

85 65.6 55.7 83.5

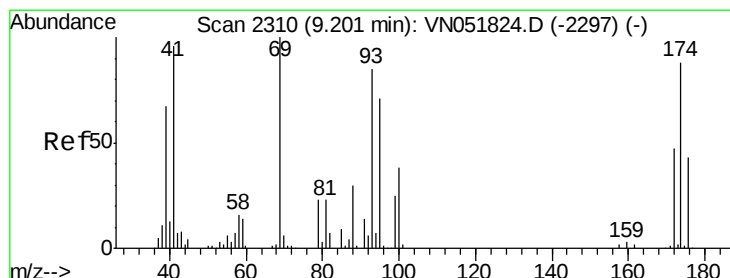
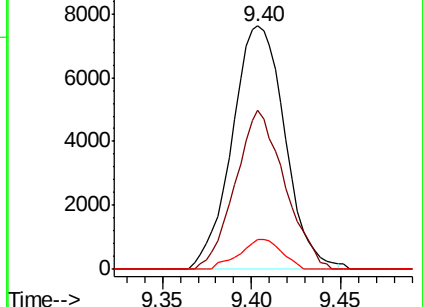
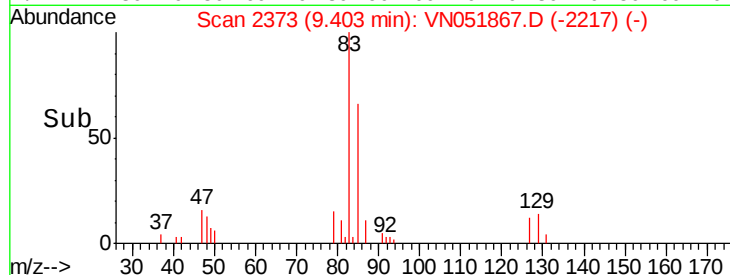
127 12.3 8.2 12.4



Abundance Ion 83.00 (82.70 to 83.70): VN051867.D (-2217) (-)

Ion 85.00 (84.70 to 85.70): VN051867.D (-2217) (-)

Ion 127.00 (126.70 to 127.70): VN051867.D (-2217) (-)



#45

1,4-Dioxane

Concen: 1.000 ug/l

RT: 8.76 min Scan# 2172

Delta R.T. -0.44 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

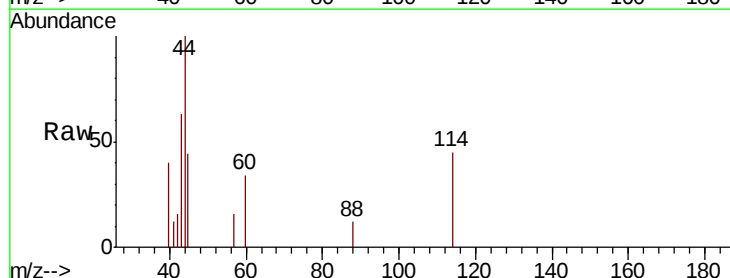
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 309.8 26.2 39.2#

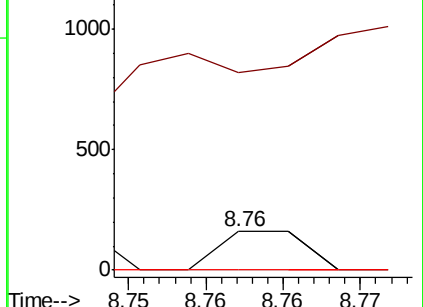
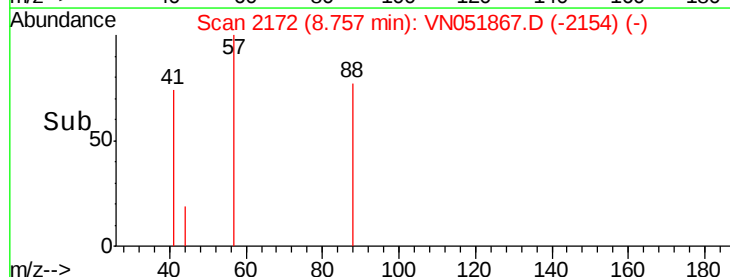
58 0.0 65.6 98.4#

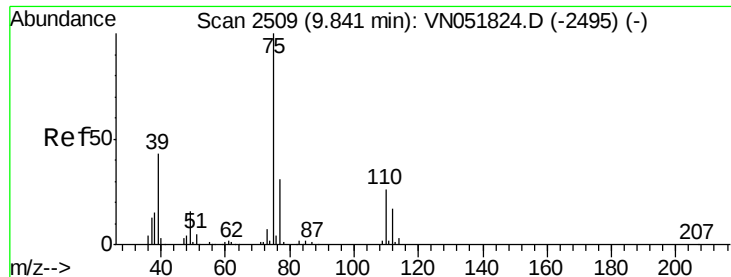


Abundance Ion 88.00 (87.70 to 88.70): VN051867.D (-2154) (-)

Ion 43.00 (42.70 to 43.70): VN051867.D (-2154) (-)

Ion 58.00 (57.70 to 58.70): VN051867.D (-2154) (-)





#49

cis-1,3-Dichloropropene

Concen: 3.772 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.32 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

Instrument :

MSVOA_N

ClientSampleId :

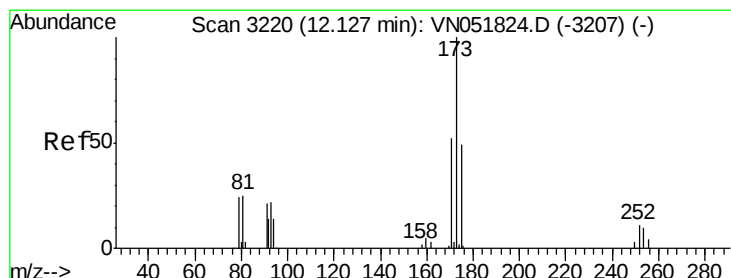
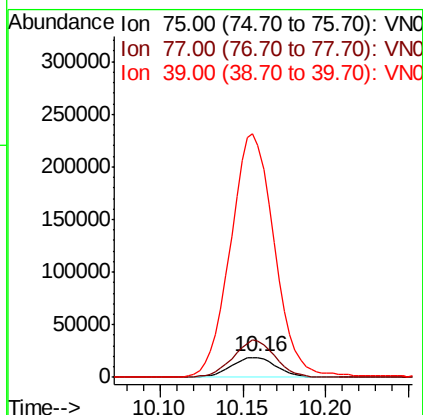
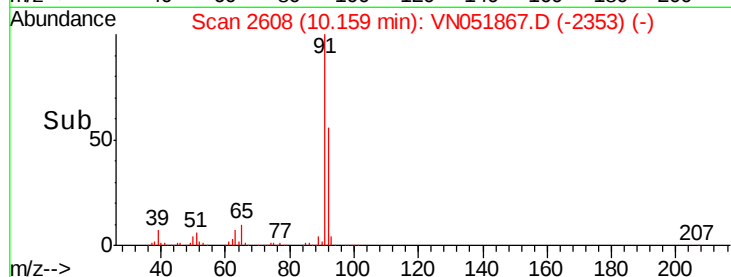
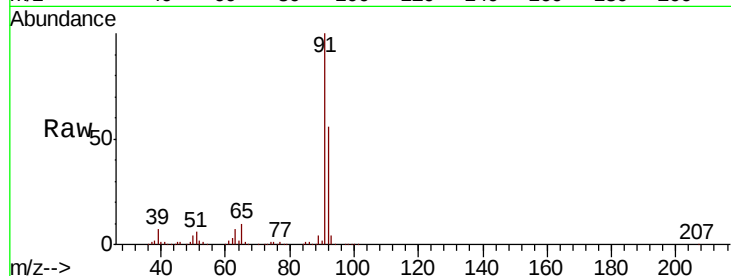
Tot Ion: 75 Resp: 36279

Ion Ratio Lower Upper

75 100

77 177.7 23.2 34.8#

39 1141.5 34.6 52.0#



#56

Bromoform

Concen: 0.430 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

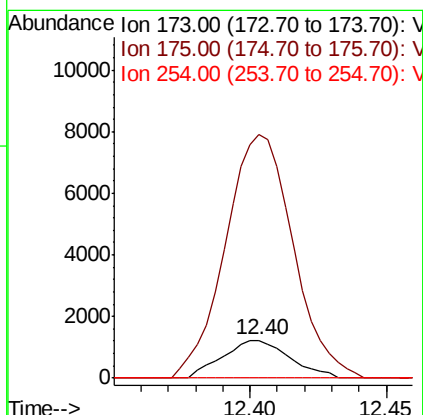
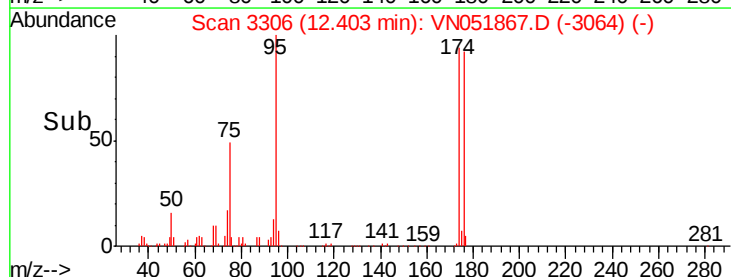
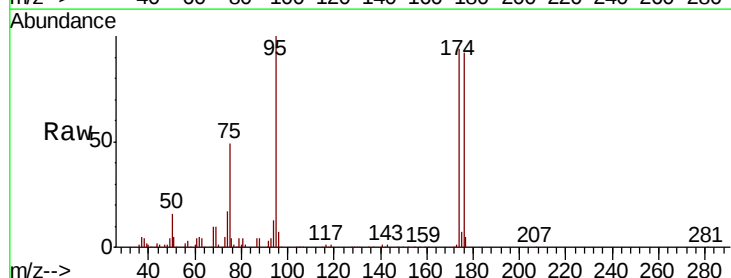
Tgt Ion: 173 Resp: 2098

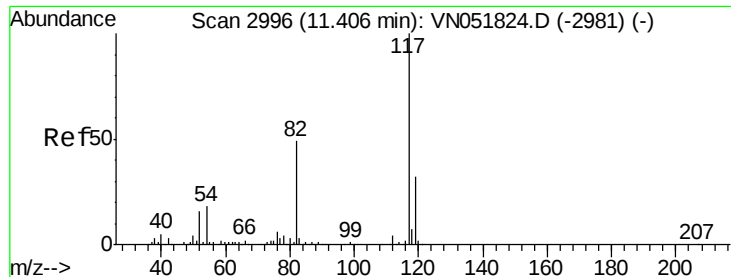
Ion Ratio Lower Upper

173 100

175 650.1 35.8 53.8#

254 0.0 8.6 13.0#

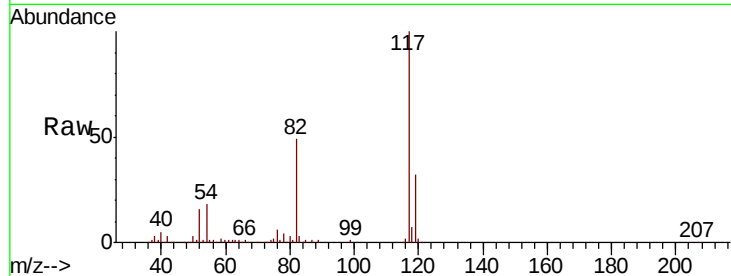




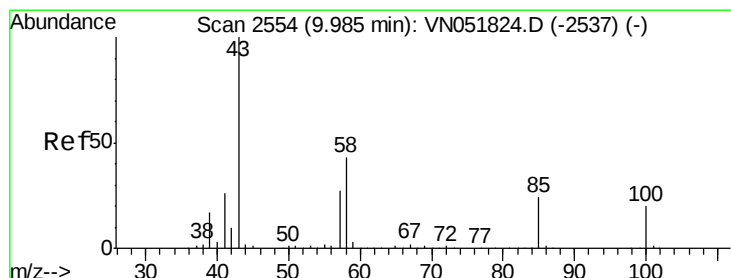
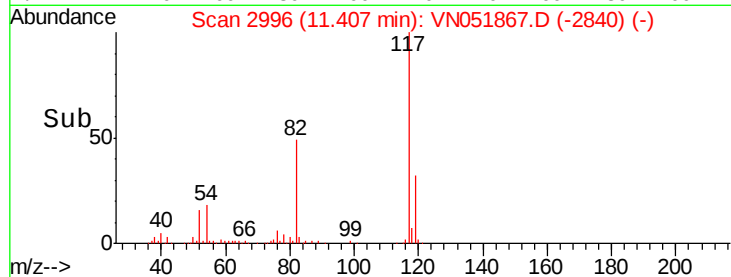
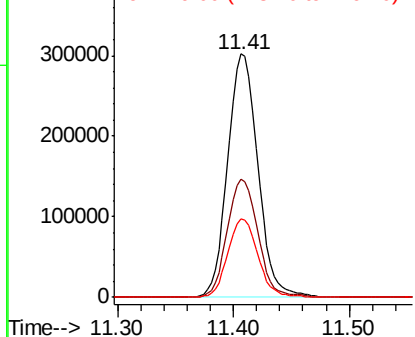
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051867.D
Acq: 15 Oct 2018 12:02

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 544880
Ion Ratio Lower Upper
117 100
82 49.3 44.1 66.1
119 32.2 25.8 38.8

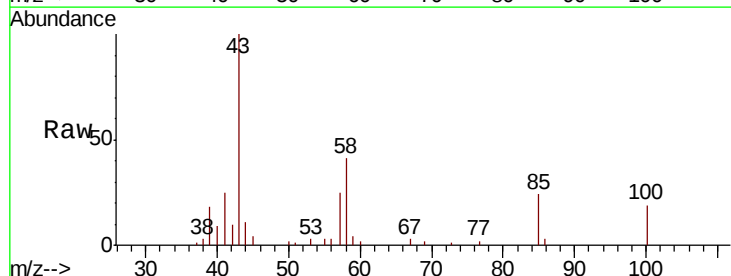


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

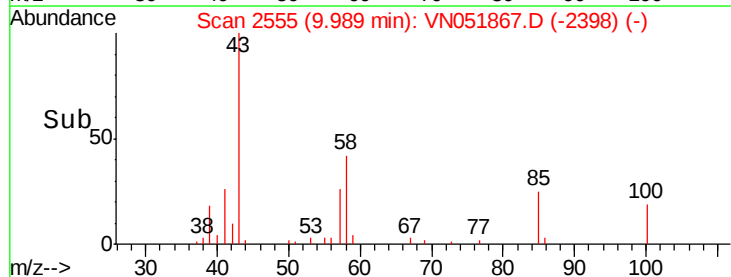
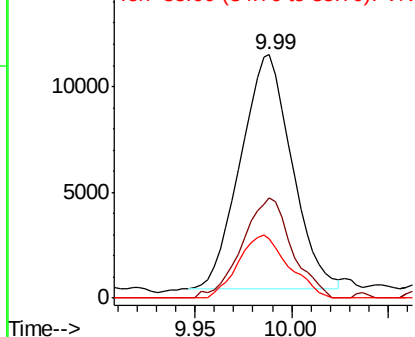


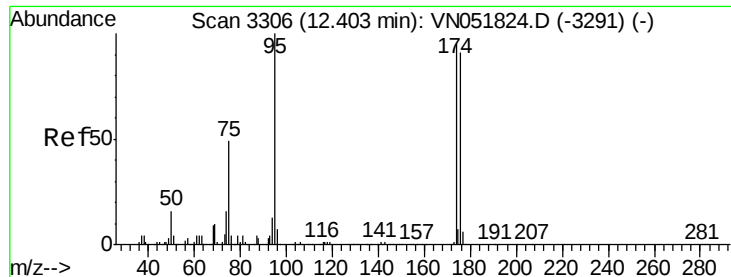
#58
4-Methyl-2-Pentanone
Concen: 5.615 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051867.D
Acq: 15 Oct 2018 12:02

Tgt Ion: 43 Resp: 20473
Ion Ratio Lower Upper
43 100
58 40.7 29.3 43.9
85 26.2 12.6 18.8#



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





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

Instrument :

MSVOA_N

ClientSampled :

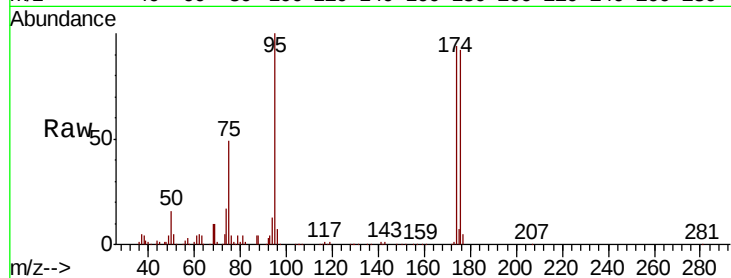
Tot Ion: 95 Resp: 199122

Ion Ratio Lower Upper

95 100

174 93.6 73.5 110.3

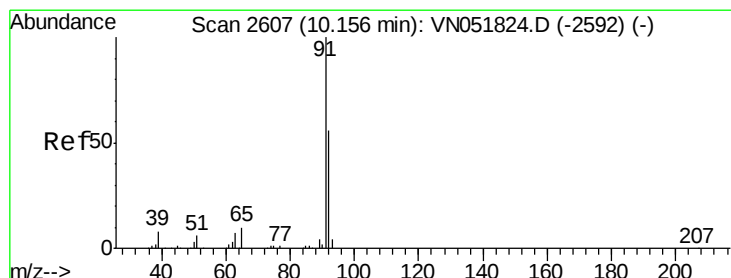
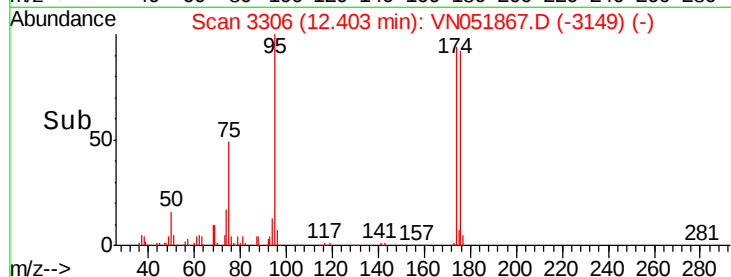
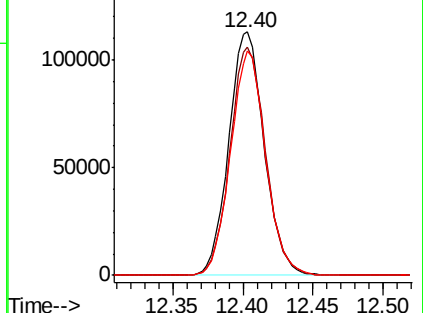
176 91.0 70.2 105.2



Abundance Ion 95.00 (94.70 to 95.70): VN051824.D (-3291) (-)

Ion 174.00 (173.70 to 174.70): VN051824.D (-3291) (-)

Ion 176.00 (175.70 to 176.70): VN051824.D (-3291) (-)



#62

Toluene

Concen: 211.079 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051867.D

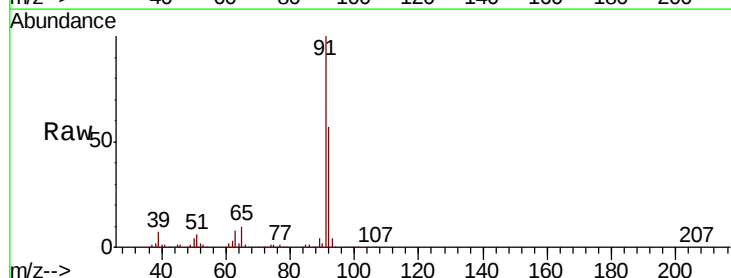
Acq: 15 Oct 2018 12:02

Tgt Ion: 91 Resp: 5713674

Ion Ratio Lower Upper

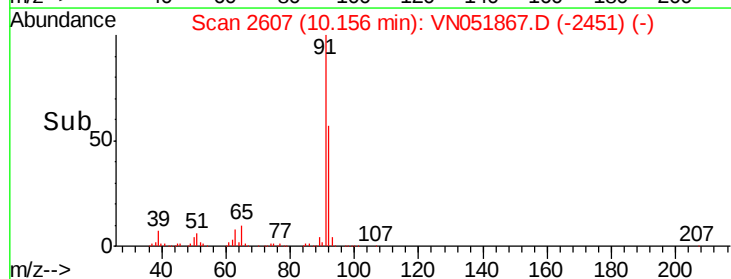
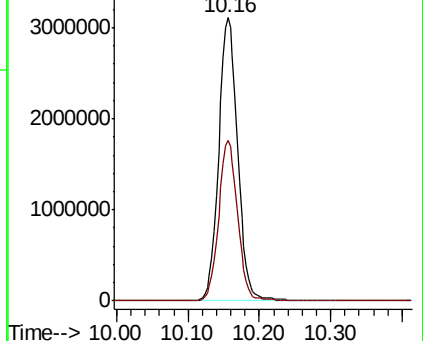
91 100

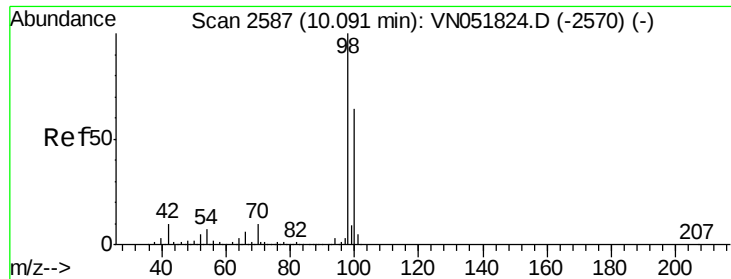
92 56.5 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-2592) (-)

Ion 92.00 (91.70 to 92.70): VN051824.D (-2592) (-)





#63

Toluene-d8

Concen: 211.079 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

Instrument :

MSVOA_N

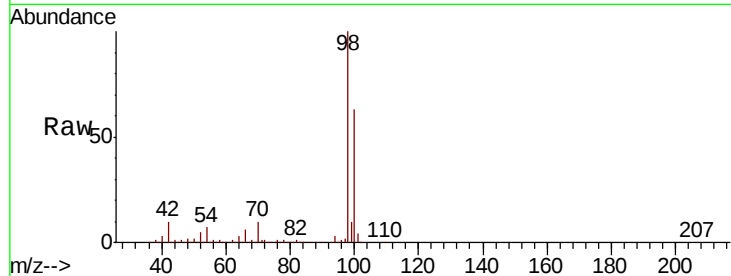
ClientSampleId :

Tot Ion: 98 Resp: 737924

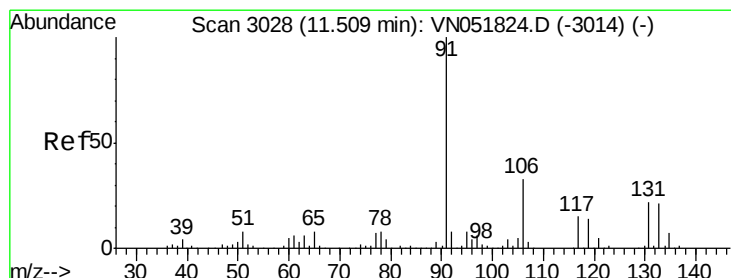
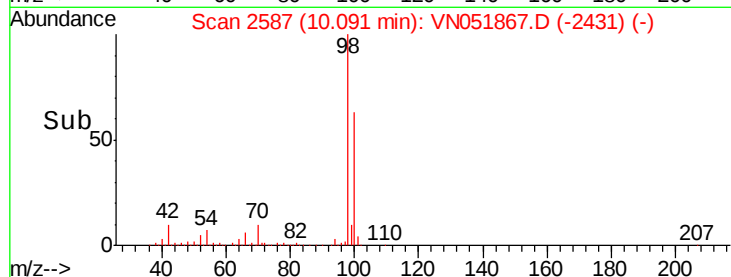
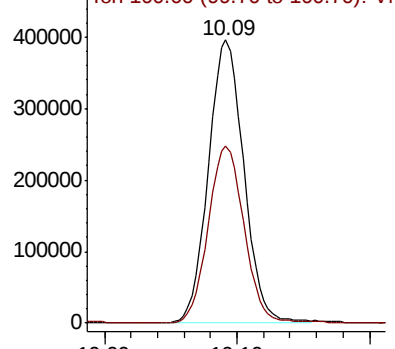
Ion Ratio Lower Upper

98 100

100 63.7 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051824.D (-2570) (-)



#66

Ethyl Benzene

Concen: 0.238 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051867.D

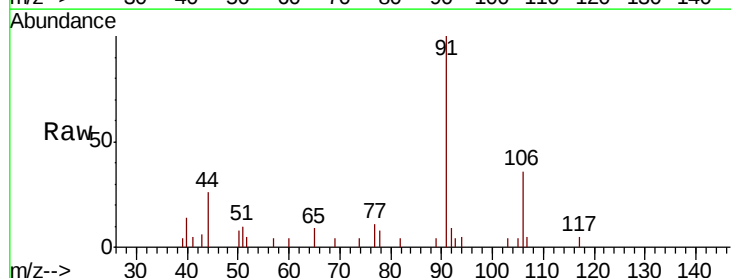
Acq: 15 Oct 2018 12:02

Tgt Ion: 91 Resp: 7121

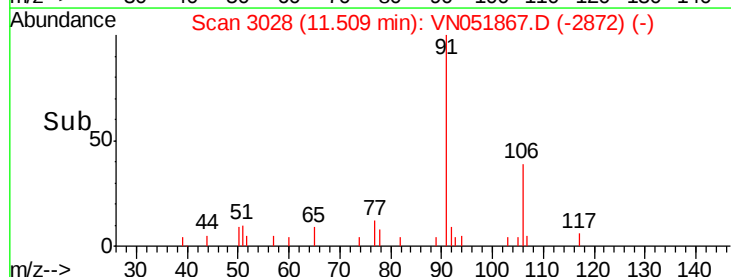
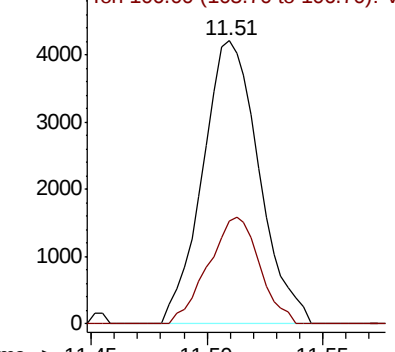
Ion Ratio Lower Upper

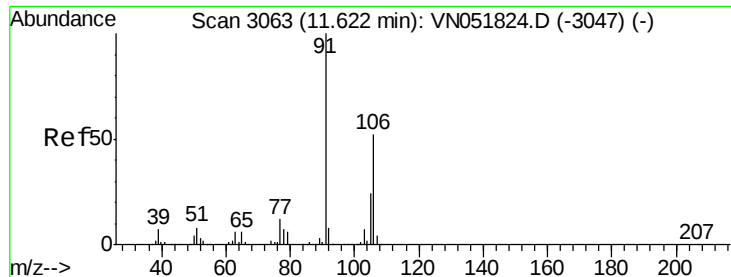
91 100

106 36.4 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-3014) (-)





#67

m/p-Xvlenes

Concen: 0.222 ug/l

RT: 11.61 min Scan# 3060

Delta R.T. -0.01 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

Instrument :

MSVOA_N

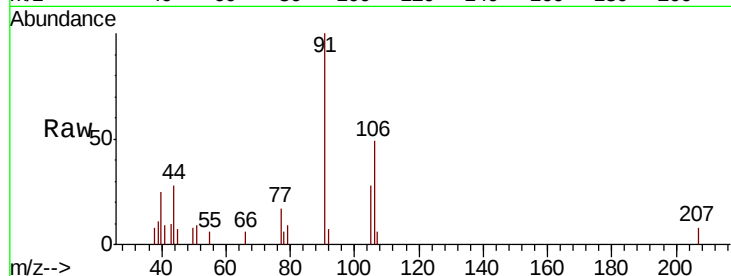
ClientSampleId :

Tot Ion:106 Resp: 2688

Ion Ratio Lower Upper

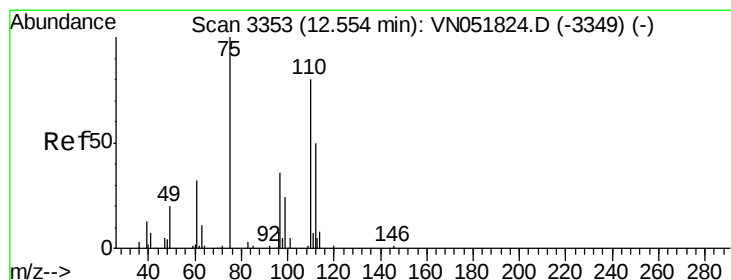
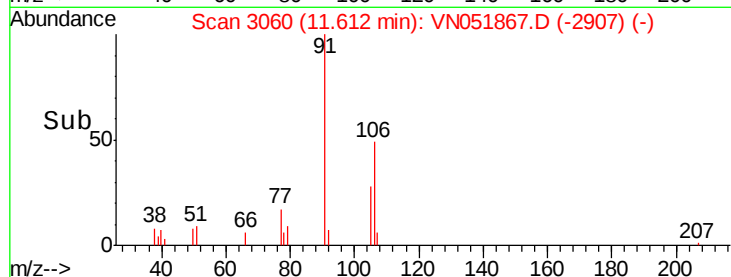
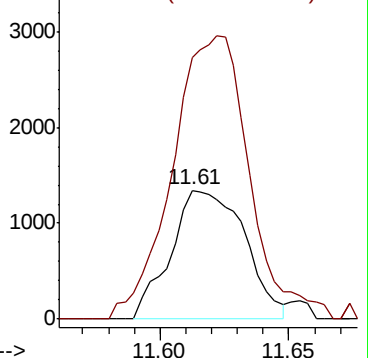
106 100

91 228.5 158.8 238.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VNO



#72

1,2,3-Trichloropropane

Concen: 19.898 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051867.D

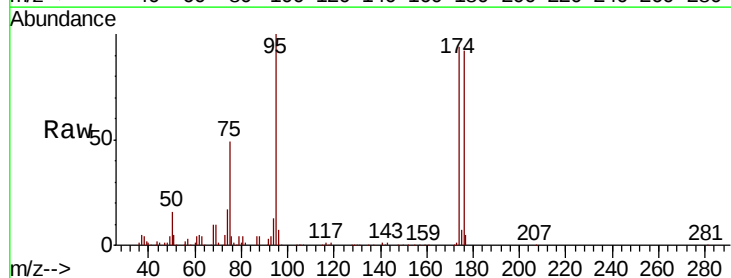
Acq: 15 Oct 2018 12:02

Tgt Ion: 75 Resp: 98569

Ion Ratio Lower Upper

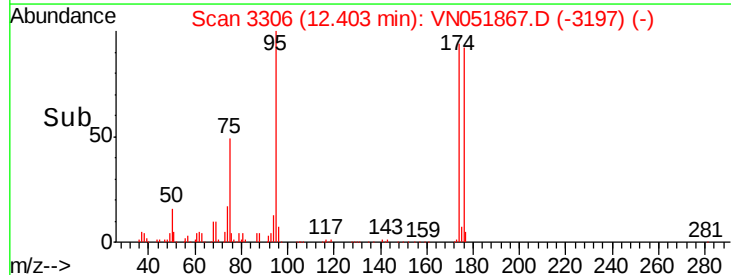
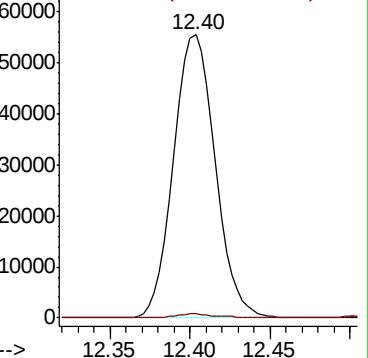
75 100

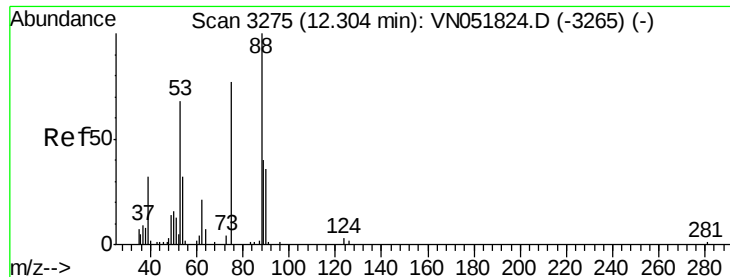
77 1.2 0.0 400.0



Abundance Ion 75.00 (74.70 to 75.70): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

t-1,4-Dichloro-2-butene

Concen: 60.165 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

Instrument :

MSVOA_N

ClientSampleId :

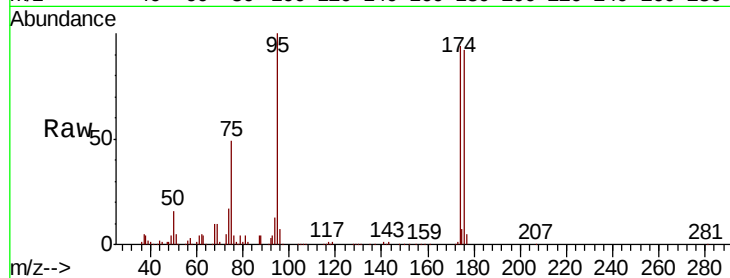
Tot Ion: 75 Resp: 98569

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

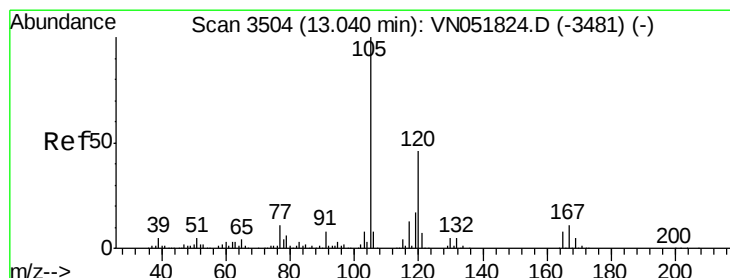
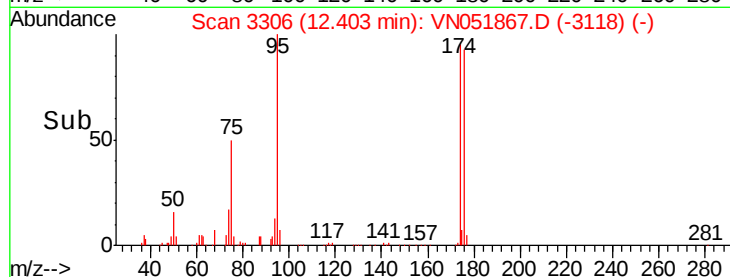
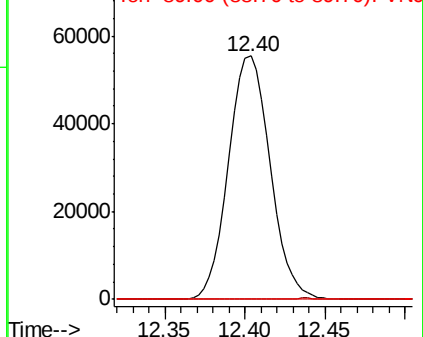
89 0.0 24.6 73.8#



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



#80

1,2,4-Trimethylbenzene

Concen: 0.200 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051867.D

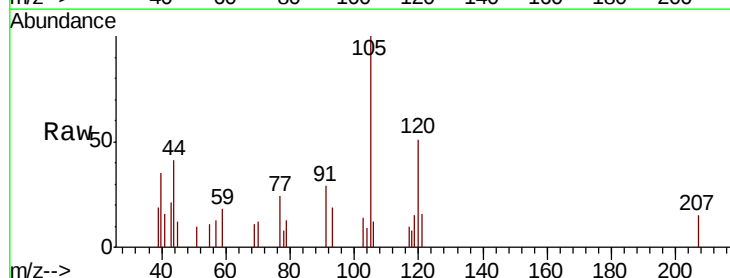
Acq: 15 Oct 2018 12:02

Tgt Ion: 105 Resp: 5275

Ion Ratio Lower Upper

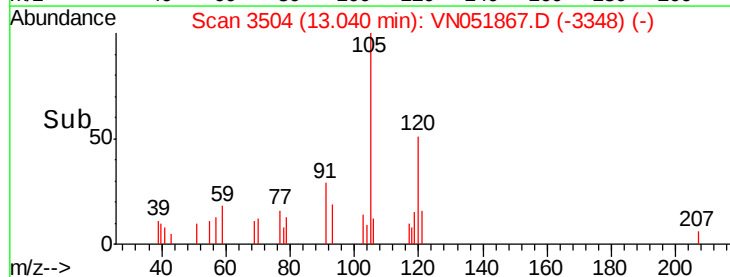
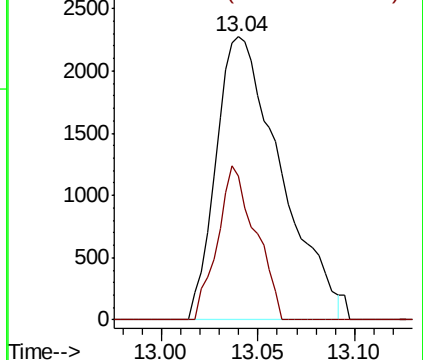
105 100

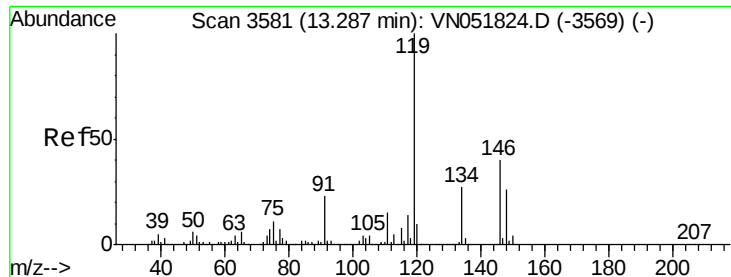
120 32.3 0.0 89.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

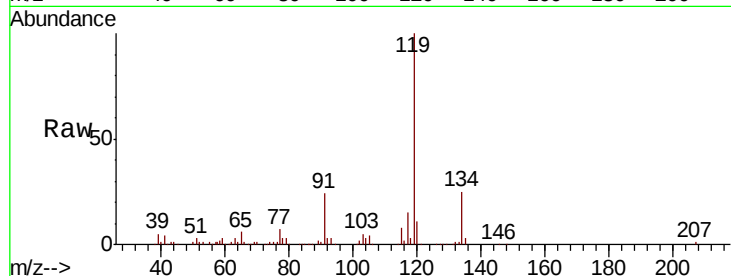




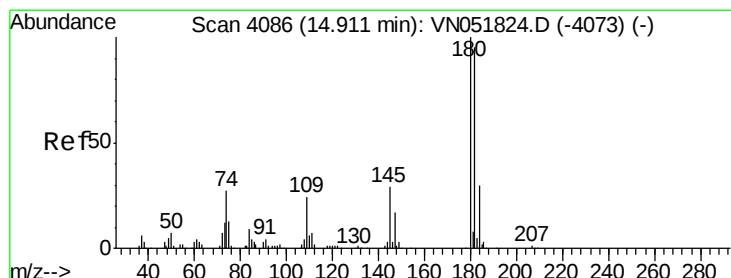
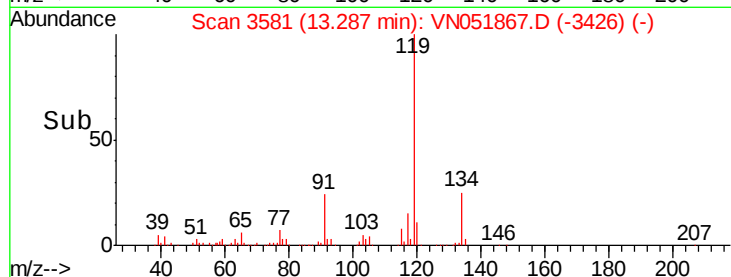
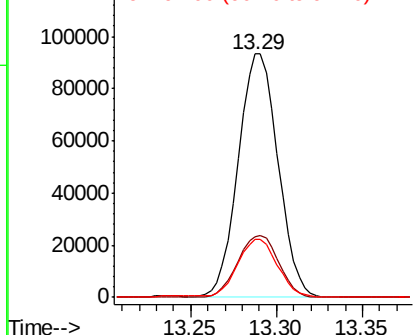
#82
 p-Isopropyltoluene
 Concen: 5.310 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051867.D
 Acq: 15 Oct 2018 12:02

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:119 Resp: 150727
 Ion Ratio Lower Upper
 119 100
 134 26.2 0.0 53.6
 91 24.0 0.0 52.0

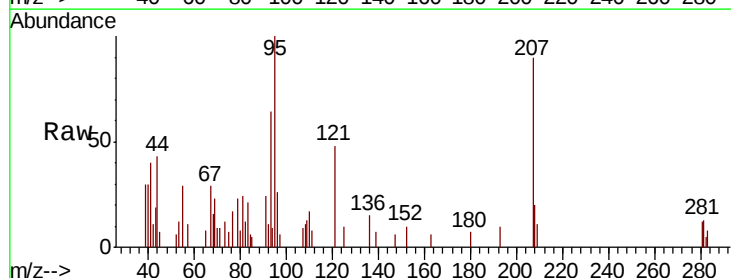


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

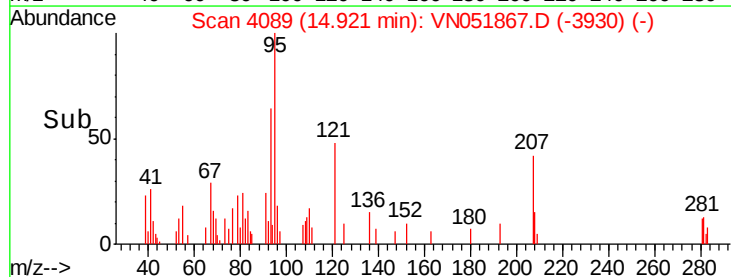
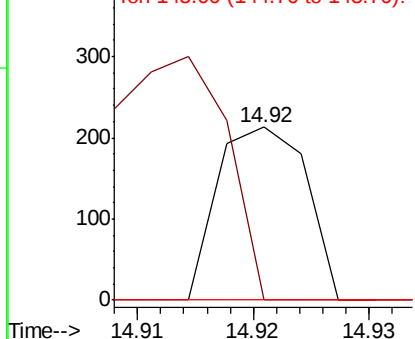


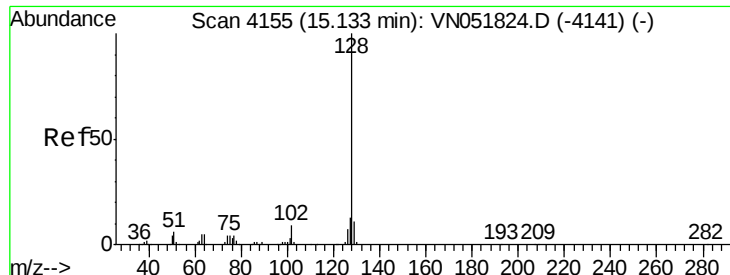
#89
 1,2,4-Trichlorobenzene
 Concen: 7.740 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN051867.D
 Acq: 15 Oct 2018 12:02

Tgt Ion:180 Resp: 113
 Ion Ratio Lower Upper
 180 100
 182 210.6 77.7 116.5#
 145 0.0 23.4 35.2#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 8.649 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN051867.D

Acq: 15 Oct 2018 12:02

Instrument :

MSVOA_N

ClientSampleId :

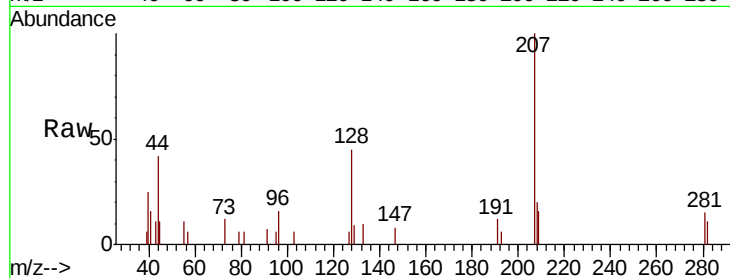
Tot Ion:128 Resp: 2123

Ion Ratio Lower Upper

128 100

127 11.0 10.1 15.1

129 12.4 8.4 12.6



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

