

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051878.D
 Acq On : 15 Oct 2018 16:49
 Operator : MD\SY
 Sample : J5510-02DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:47:50 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	125847	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	695539	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	573546	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	231669	30.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.83%
60) 4-Bromofluorobenzene	12.40	95	199499	24.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	80.40%
63) Toluene-d8	10.09	98	784832	31.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.03%

Target Compounds

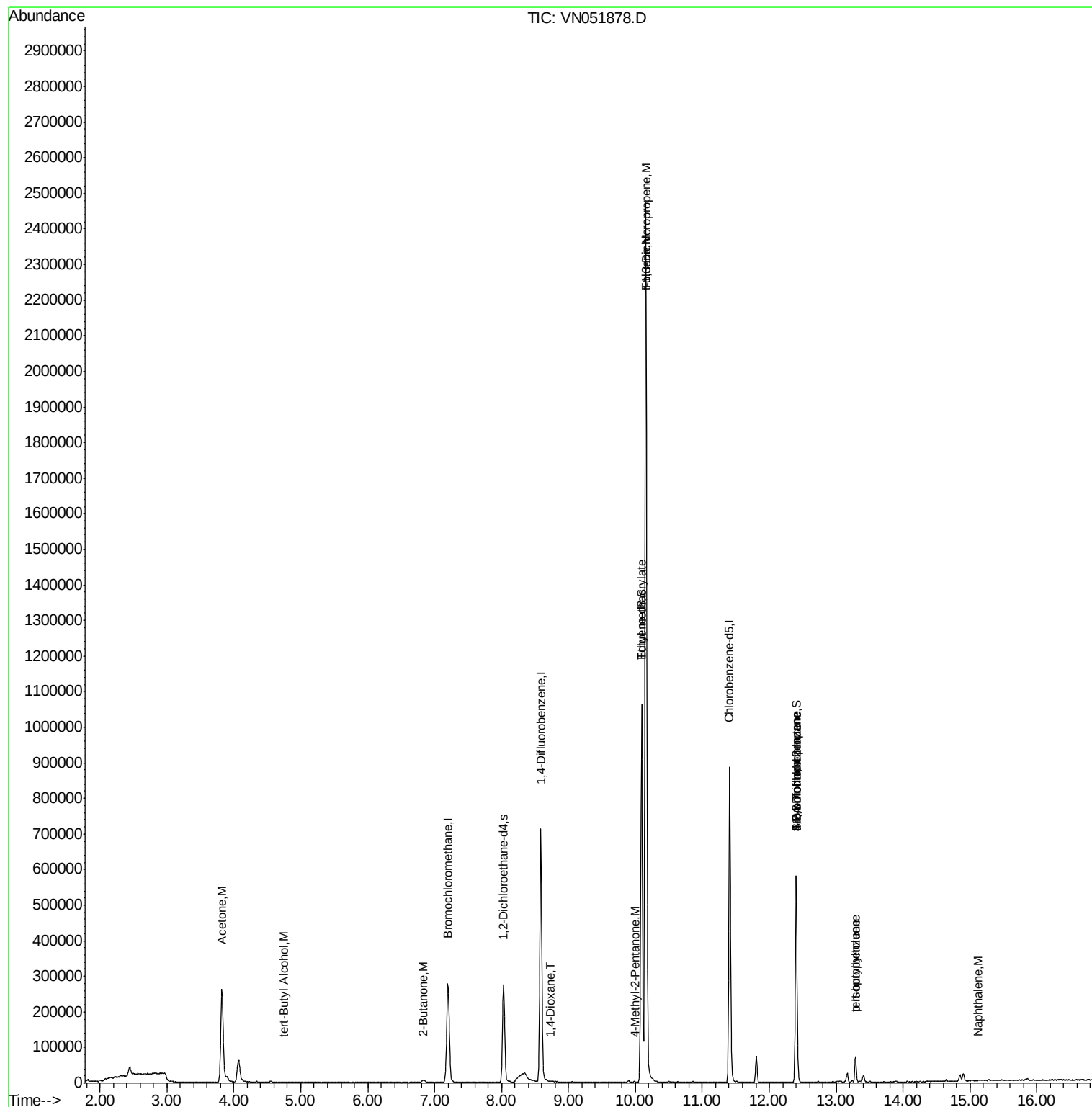
					Ovalue	
15) Acetone	3.82	58	141810	356.741	ug/l	95
23) tert-Butyl Alcohol	4.75	59	256	0.604	ug/l #	100
30) 2-Butanone	6.84	43	1595	0.851	ug/l #	90
45) 1,4-Dioxane	8.73	88	317	4.858	ug/l #	30
48) t-1,3-Dichloropropene	10.16	75	13473	1.443	ug/l #	1
51) Ethyl methacrylate	10.10	69	2190	0.299	ug/l	71
56) Bromoform	12.40	173	2038	0.390	ug/l #	1
58) 4-Methyl-2-Pentanone	9.98	43	1994	0.520	ug/l #	85
62) Toluene	10.16	91	2016224	70.762	ug/l	99
72) 1,2,3-Trichloropropane	12.40	75	100800	19.332	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	100800	58.452	ug/l #	12
79) tert-butylbenzene	13.29	119	41624	1.631	ug/l	59
82) p-Isopropyltoluene	13.29	119	41624	1.393	ug/l	98
91) Naphthalene	15.11	128	30	8.535	ug/l #	70

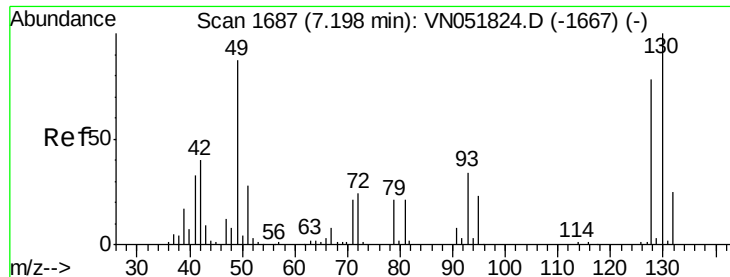
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

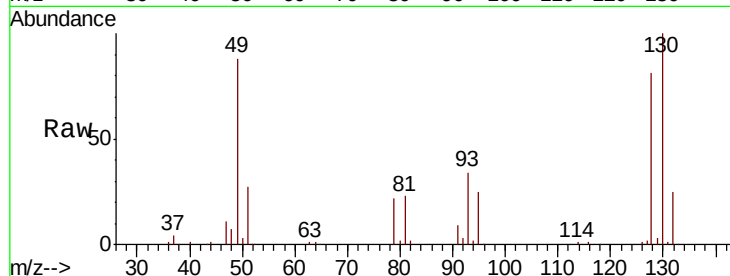




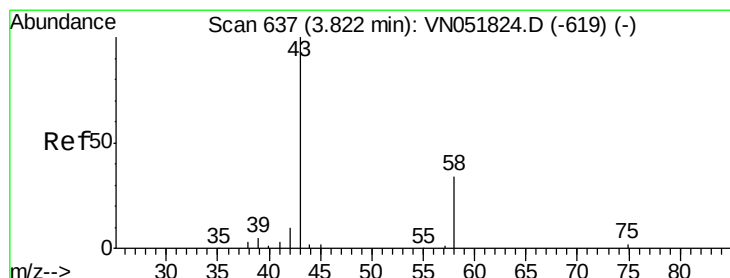
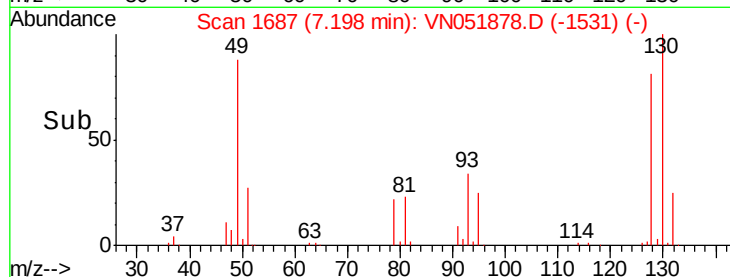
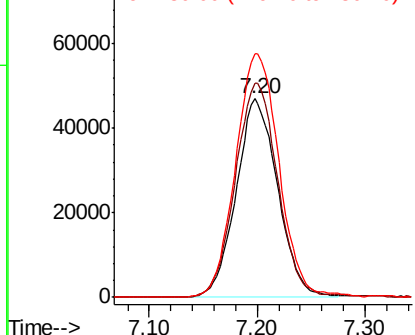
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN051878.D
Acq: 15 Oct 2018 16:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 125847
Ion Ratio Lower Upper
128 100
49 109.6 0.0 403.3
130 128.2 0.0 326.0

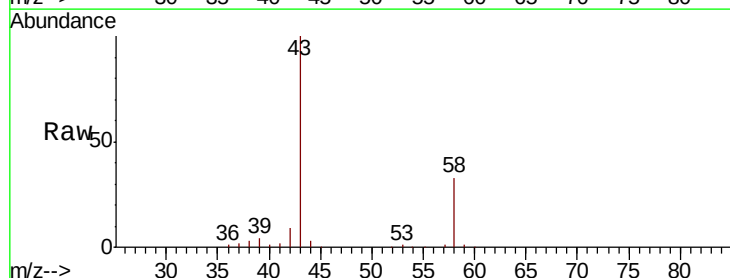


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

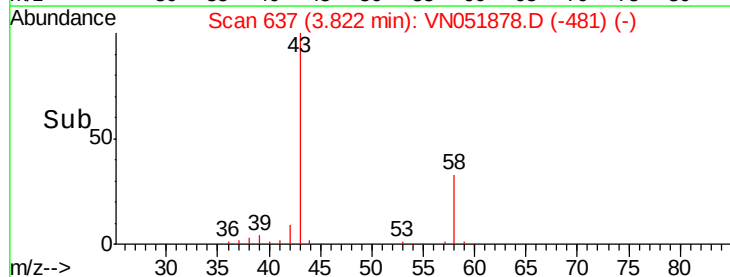
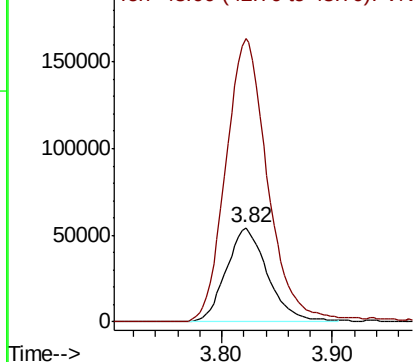


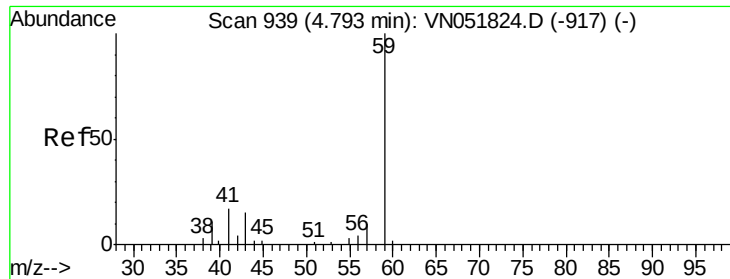
#15
Acetone
Concen: 356.741 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN051878.D
Acq: 15 Oct 2018 16:49

Tgt Ion: 58 Resp: 141810
Ion Ratio Lower Upper
58 100
43 300.1 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN
Ion 43.00 (42.70 to 43.70): VN

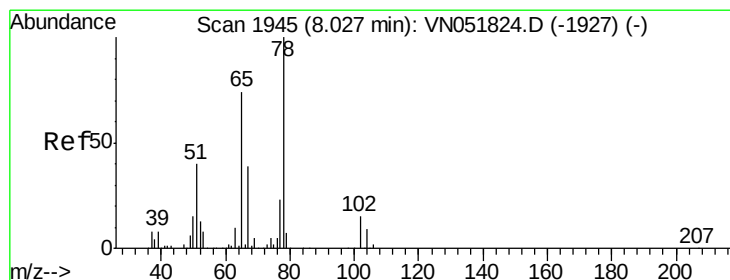
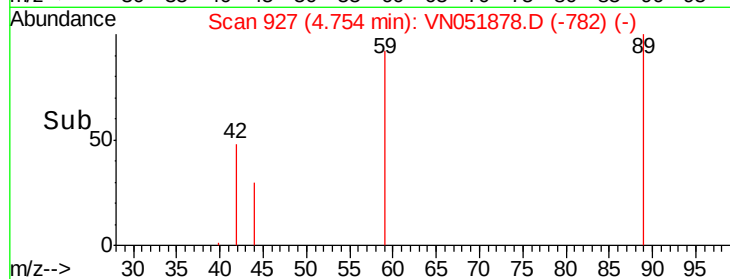
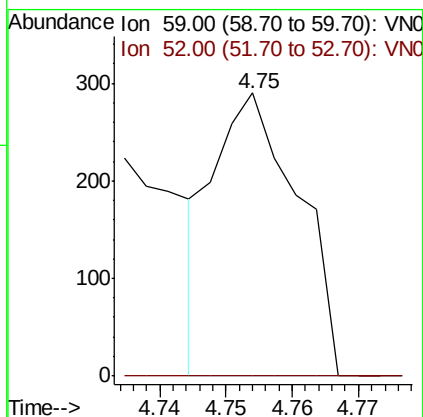
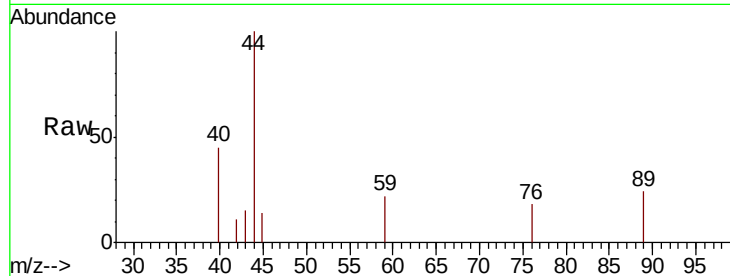




#23
 tert-Butyl Alcohol
 Concen: 0.604 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.04 min
 Lab File: VN051878.D
 Acq: 15 Oct 2018 16:49

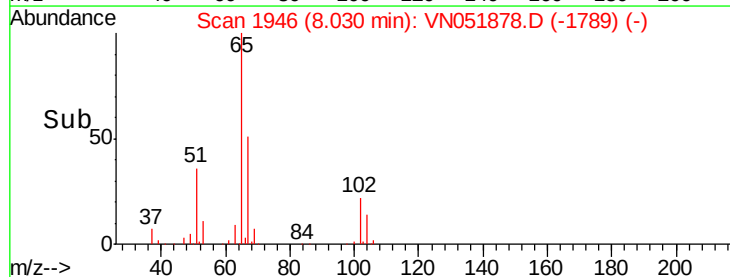
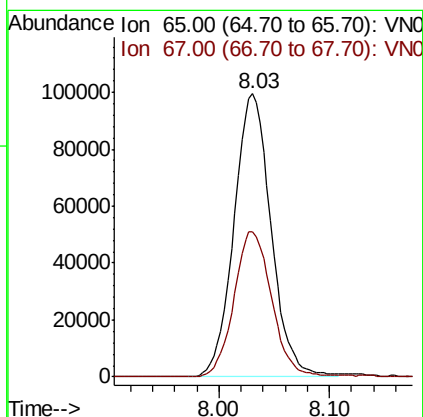
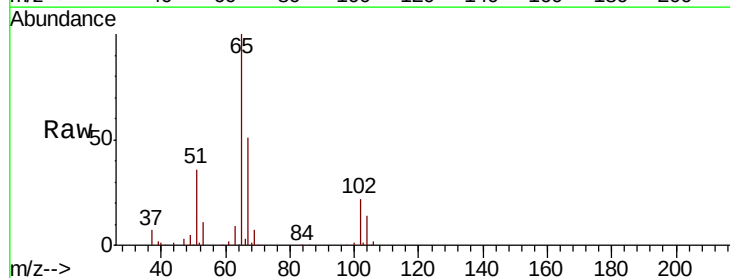
Instrument :
 MSVOA_N
 ClientSampleId :

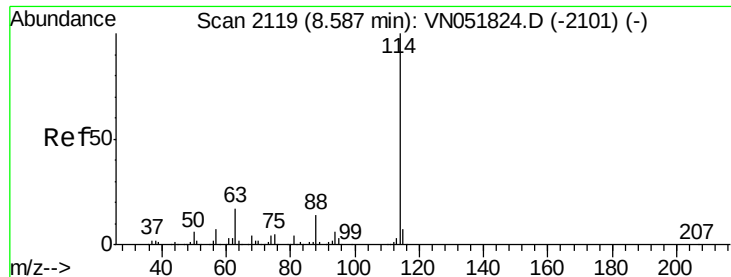
Tot Ion: 59 Resp: 256
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#27
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051878.D
 Acq: 15 Oct 2018 16:49

Tgt Ion: 65 Resp: 231669
 Ion Ratio Lower Upper
 65 100
 67 52.1 41.8 62.8

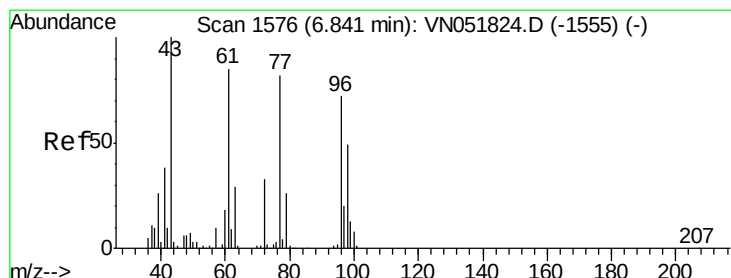
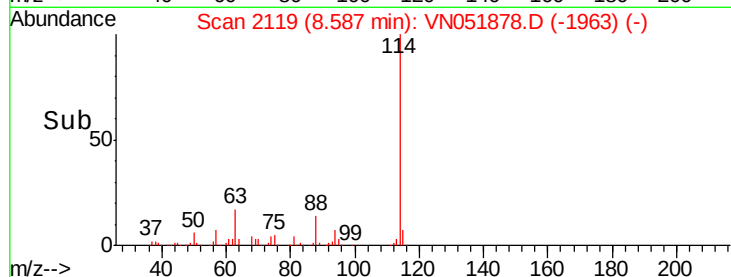
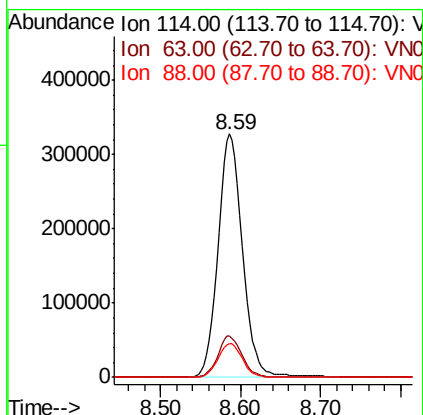
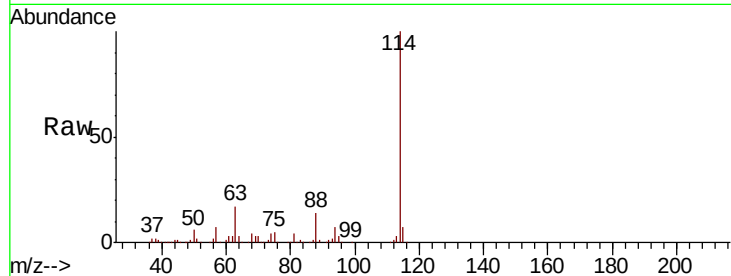




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051878.D
 Acq: 15 Oct 2018 16:49

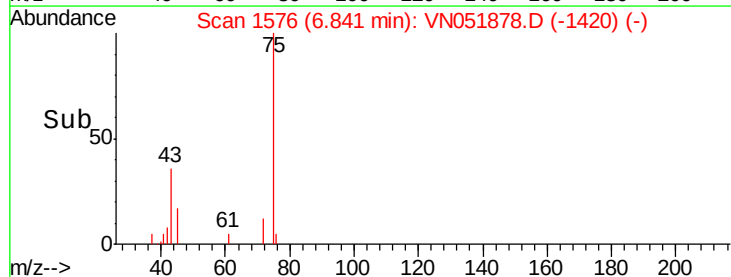
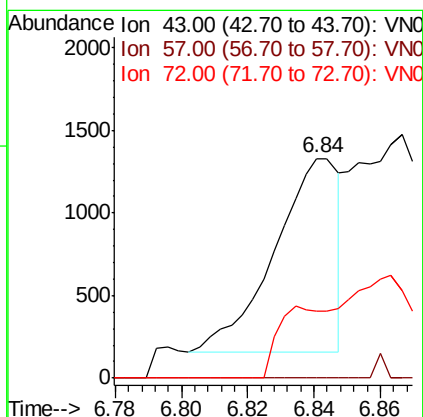
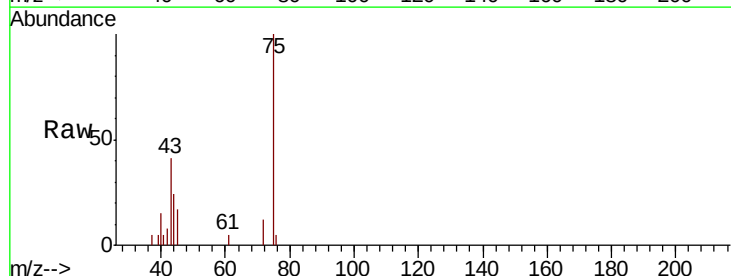
Instrument :
 MSVOA_N
 ClientSampleId :

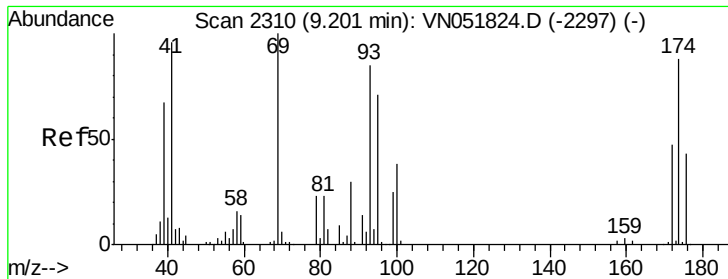
Tot Ion	Ratio	Lower	Upper
114	100		
63	16.8	16.2	24.2
88	13.8	12.2	18.4



#30
 2-Butanone
 Concen: 0.851 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VN051878.D
 Acq: 15 Oct 2018 16:49

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	4.5	6.7#
72	22.8	21.5	32.3





#45

1,4-Dioxane

Concen: 4.858 ug/l

RT: 8.73 min Scan# 2164

Delta R.T. -0.47 min

Lab File: VN051878.D

Acq: 15 Oct 2018 16:49

Instrument :
MSVOA_N
ClientSampled :

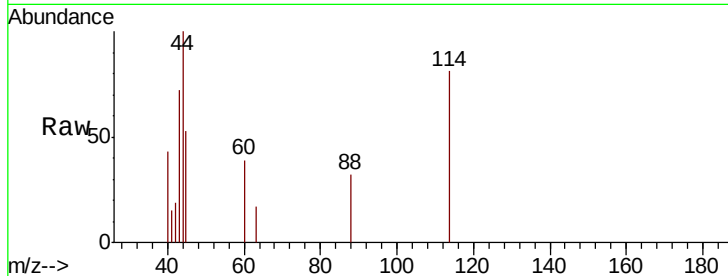
Tot Ion: 88 Resp: 317

Ion Ratio Lower Upper

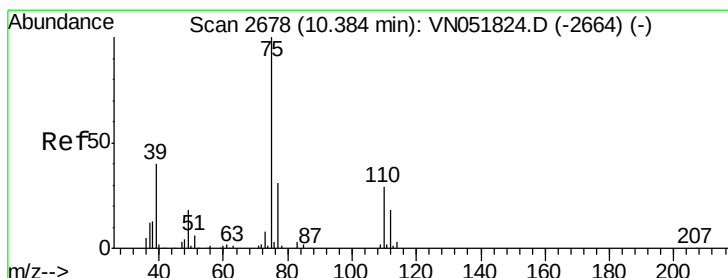
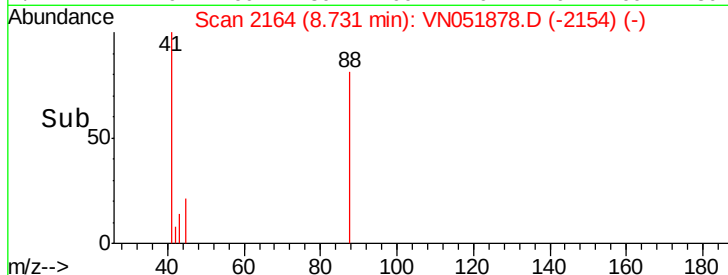
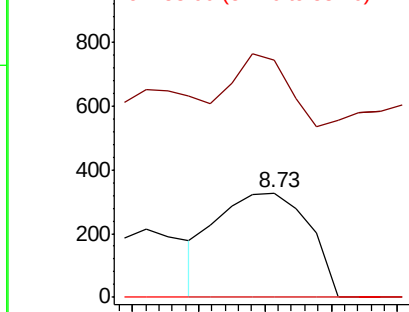
88 100

43 42.0 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



#48

t-1,3-Dichloropropene

Concen: 1.443 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.22 min

Lab File: VN051878.D

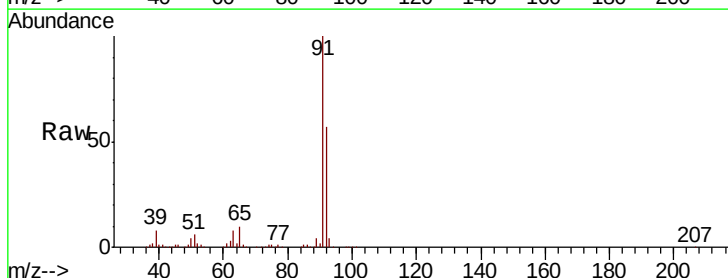
Acq: 15 Oct 2018 16:49

Tgt Ion: 75 Resp: 13473

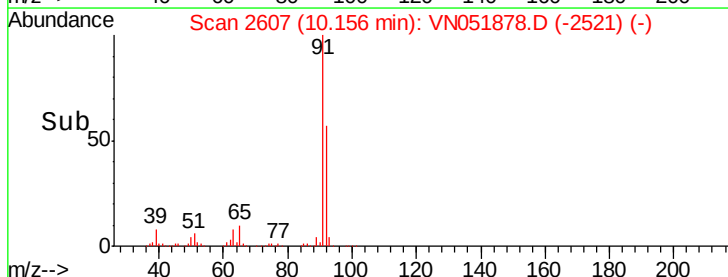
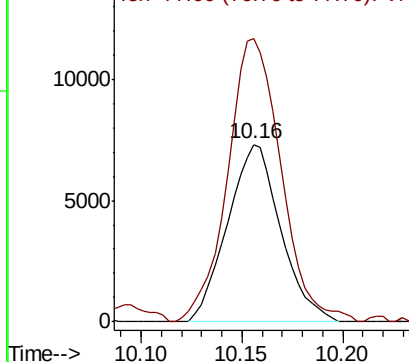
Ion Ratio Lower Upper

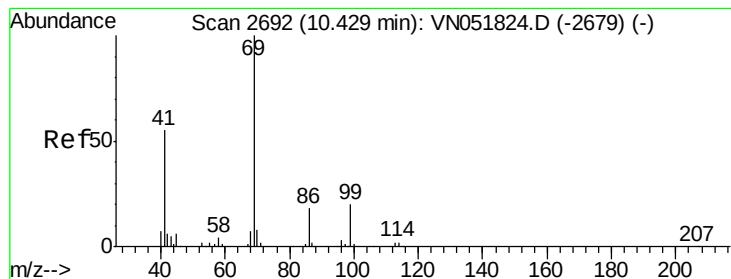
75 100

77 153.7 24.6 37.0#



Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#51

Ethyl methacrylate

Concen: 0.299 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.33 min

Lab File: VN051878.D

Acq: 15 Oct 2018 16:49

Instrument :

MSVOA_N

ClientSampled :

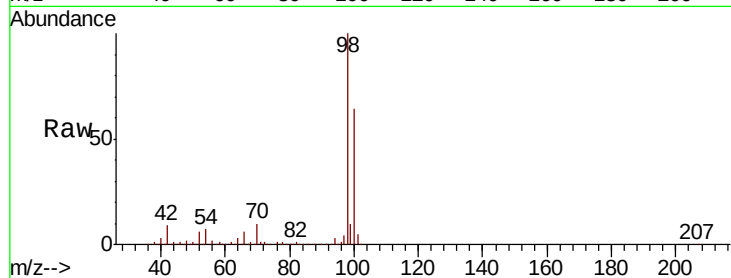
Tot Ion: 69 Resp: 2190

Ion Ratio Lower Upper

69 100

41 36.1 34.4 103.1

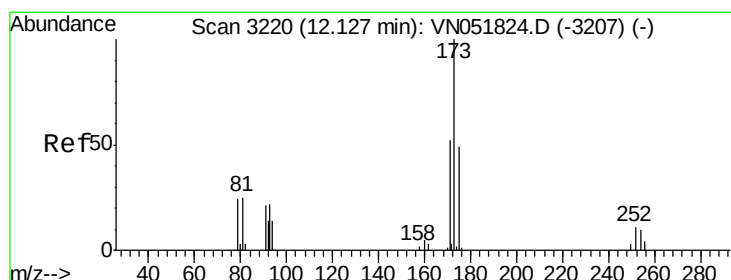
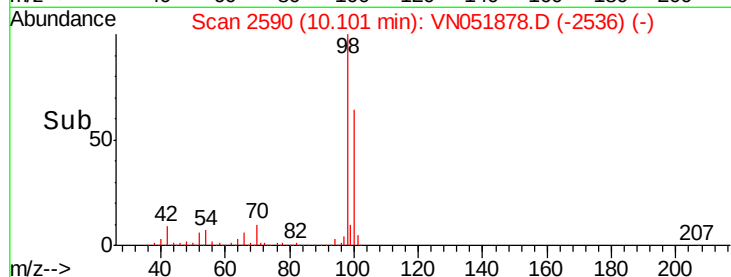
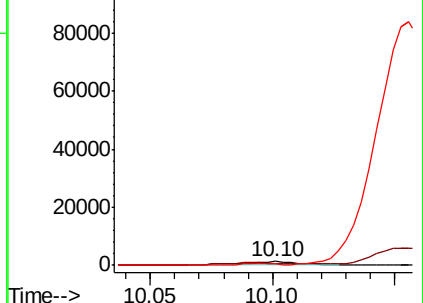
39 29.2 16.3 48.8



Abundance Ion 69.00 (68.70 to 69.70): VN051824.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN051824.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN051824.D (-2679) (-)



#56

Bromoform

Concen: 0.390 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051878.D

Acq: 15 Oct 2018 16:49

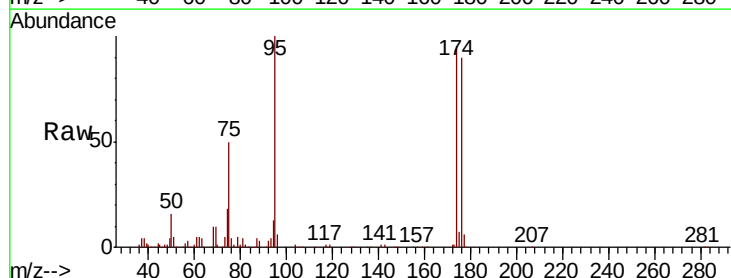
Tgt Ion: 173 Resp: 2038

Ion Ratio Lower Upper

173 100

175 709.3 35.8 53.8#

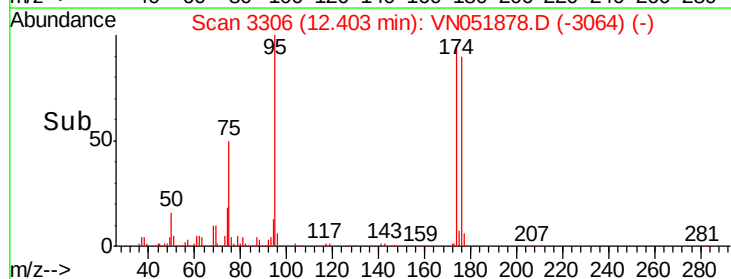
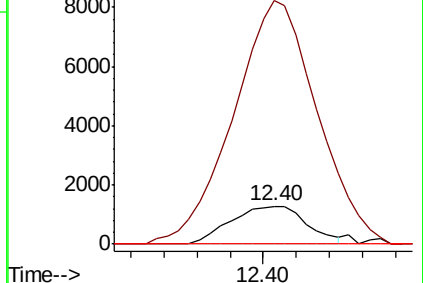
254 0.0 8.6 13.0#

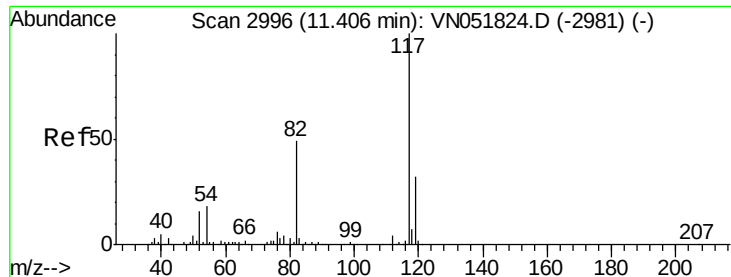


Abundance Ion 173.00 (172.70 to 173.70): VN051824.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN051824.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN051824.D (-3207) (-)

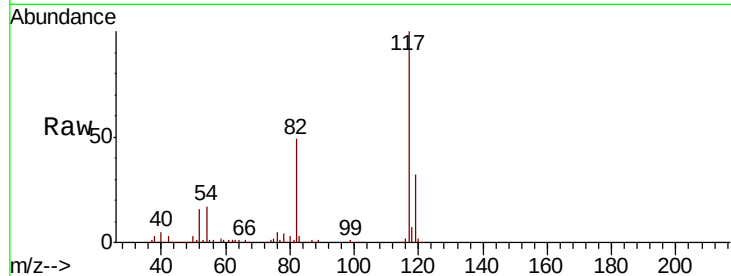




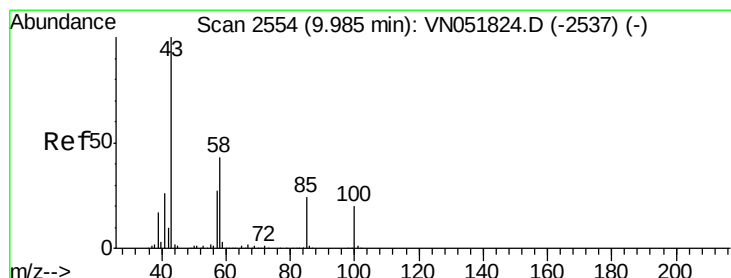
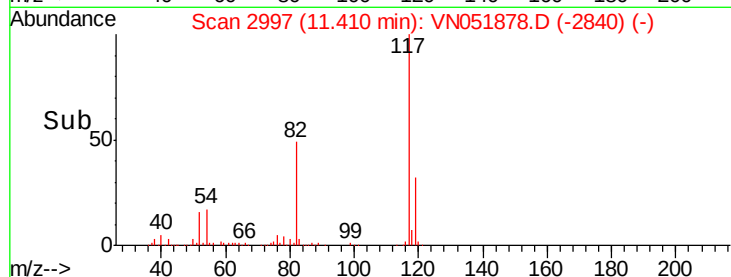
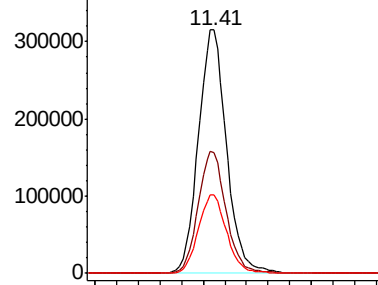
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051878.D
Acq: 15 Oct 2018 16:49

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.5	44.1	66.1
119	32.4	25.8	38.8

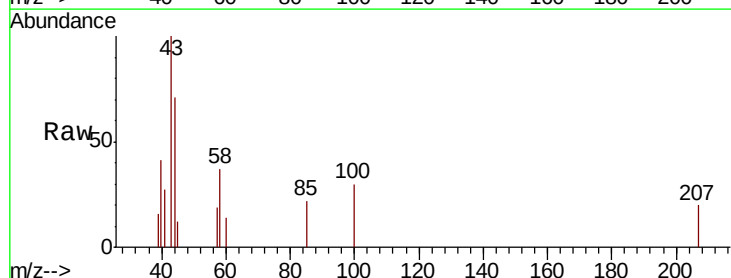


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

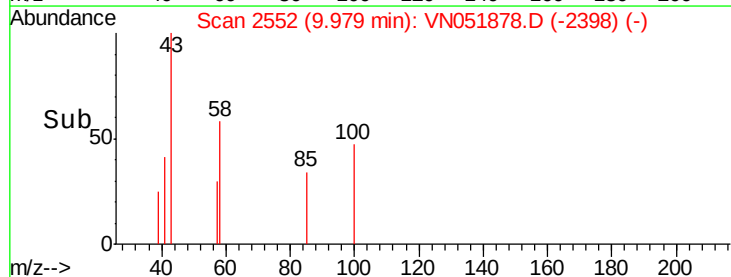
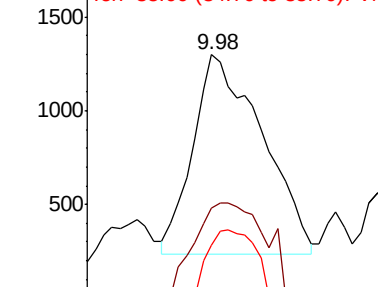


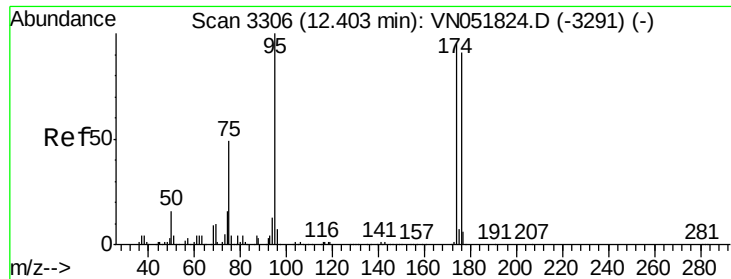
#58
4-Methyl-2-Pentanone
Concen: 0.520 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.01 min
Lab File: VN051878.D
Acq: 15 Oct 2018 16:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	44.6	29.3	43.9#
85	23.2	12.6	18.8#



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





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051878.D

Acq: 15 Oct 2018 16:49

Instrument :

MSVOA_N

ClientSampled :

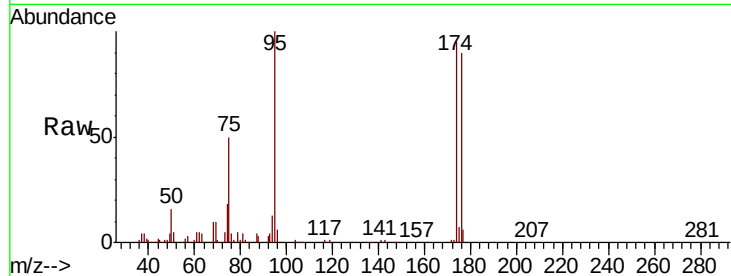
Tot Ion: 95 Resp: 199499

Ion Ratio Lower Upper

95 100

174 95.2 73.5 110.3

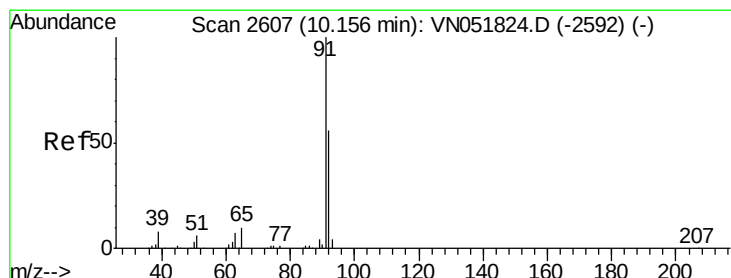
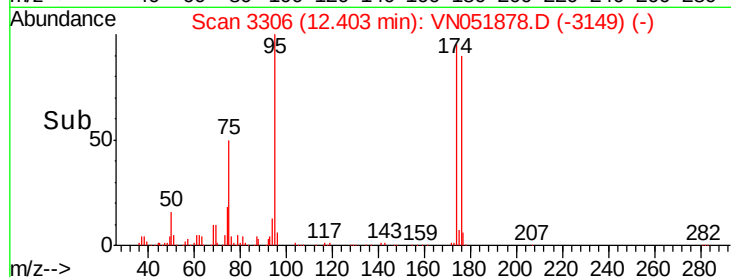
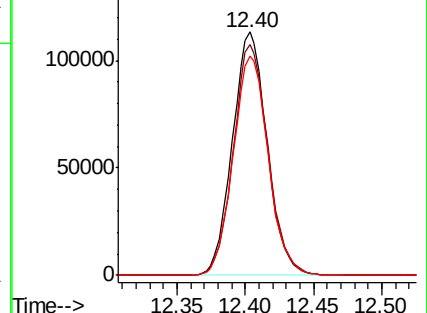
176 91.2 70.2 105.2



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: 70.762 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051878.D

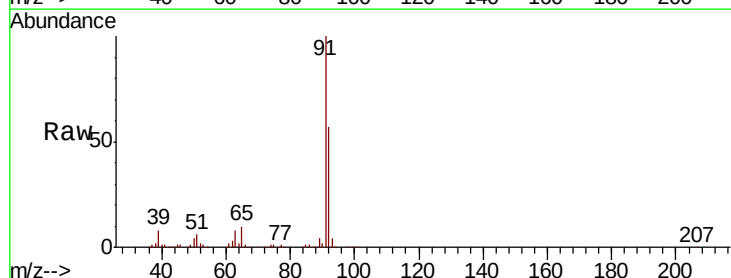
Acq: 15 Oct 2018 16:49

Tgt Ion: 91 Resp: 2016224

Ion Ratio Lower Upper

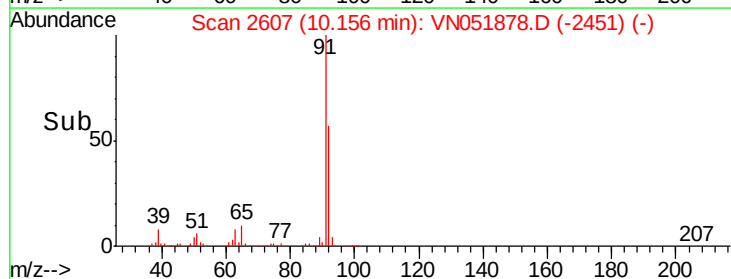
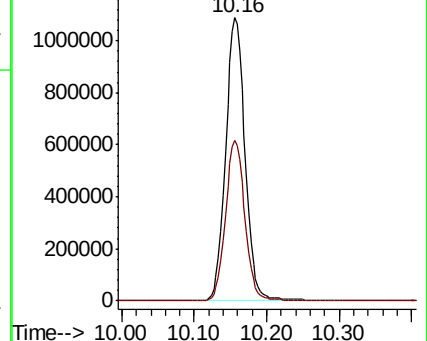
91 100

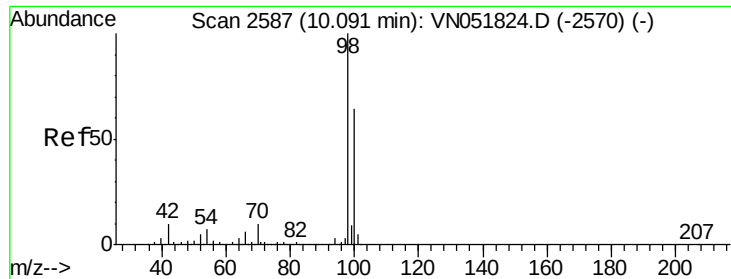
92 56.5 44.6 66.8



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: 70.762 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051878.D

Acq: 15 Oct 2018 16:49

Instrument :

MSVOA_N

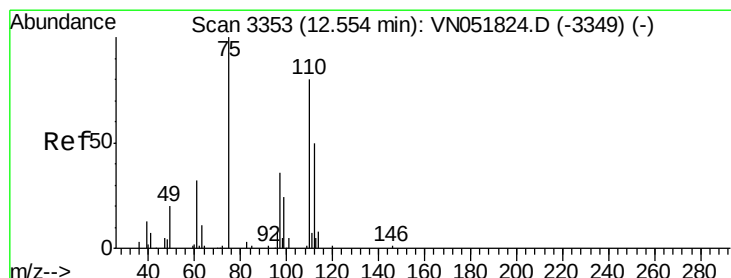
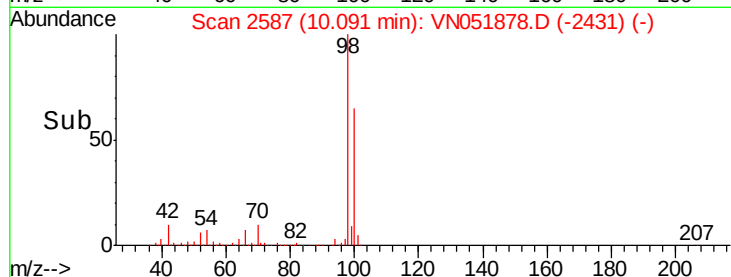
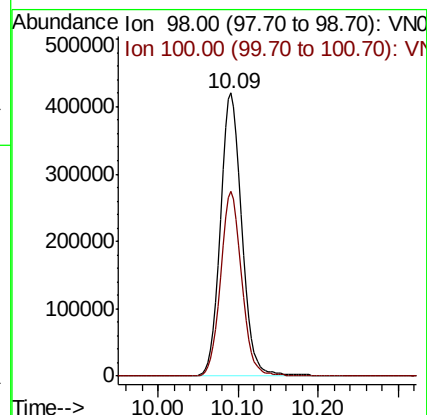
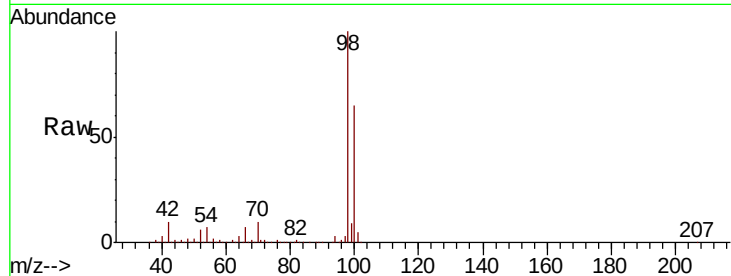
ClientSampled :

Tot Ion: 98 Resp: 784832

Ion Ratio Lower Upper

98 100

100 64.0 50.8 76.2



#72

1,2,3-Trichloropropane

Concen: 19.332 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051878.D

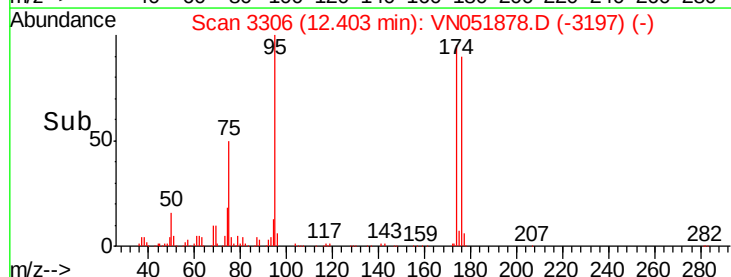
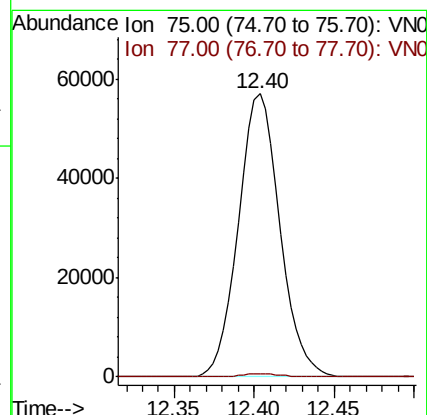
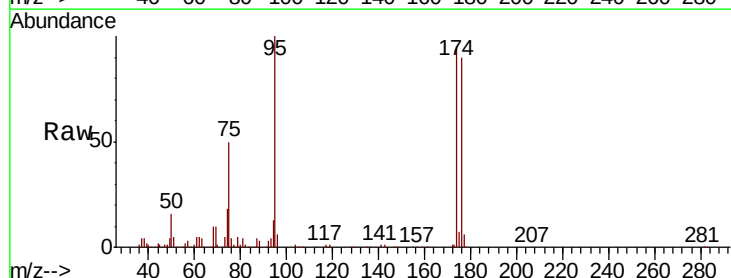
Acq: 15 Oct 2018 16:49

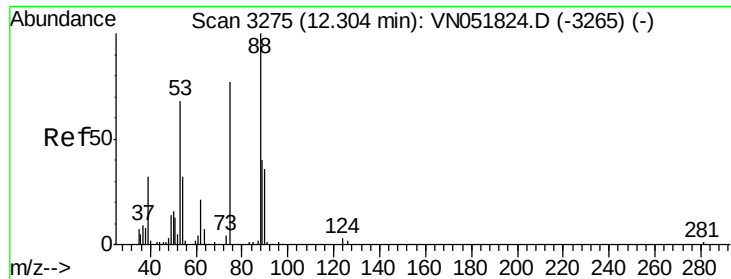
Tgt Ion: 75 Resp: 100800

Ion Ratio Lower Upper

75 100

77 1.0 0.0 400.0





#77

t-1,4-Dichloro-2-butene

Concen: 58.452 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051878.D

Acq: 15 Oct 2018 16:49

Instrument :

MSVOA_N

ClientSampled :

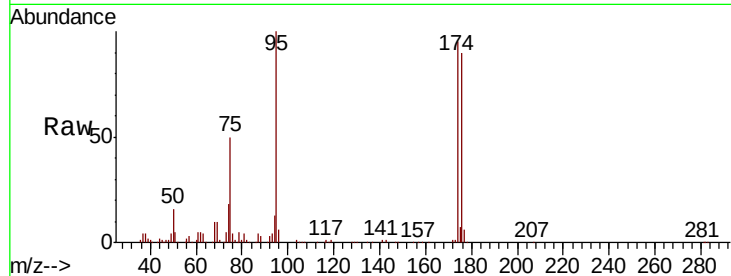
Tot Ion: 75 Resp: 100800

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

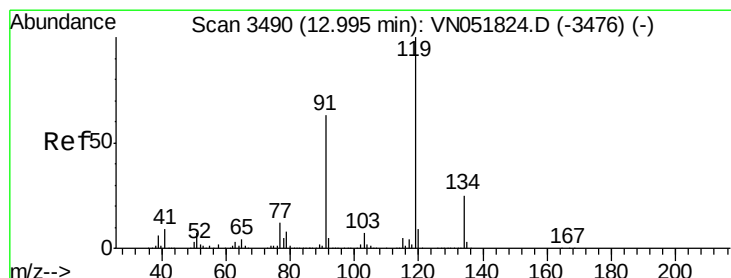
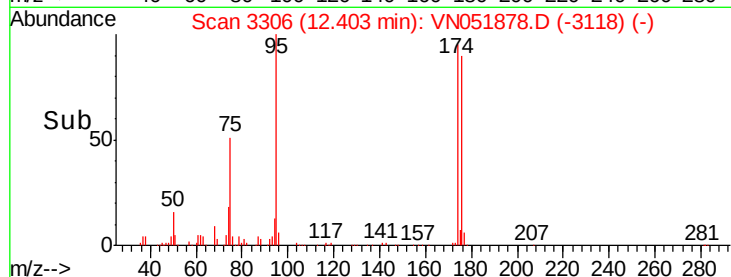
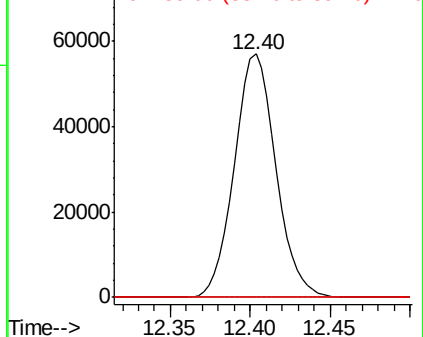
89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051878.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN051878.D (-3306) (-)

Ion 89.00 (88.70 to 89.70): VN051878.D (-3306) (-)



#79

tert-butylbenzene

Concen: 1.631 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.29 min

Lab File: VN051878.D

Acq: 15 Oct 2018 16:49

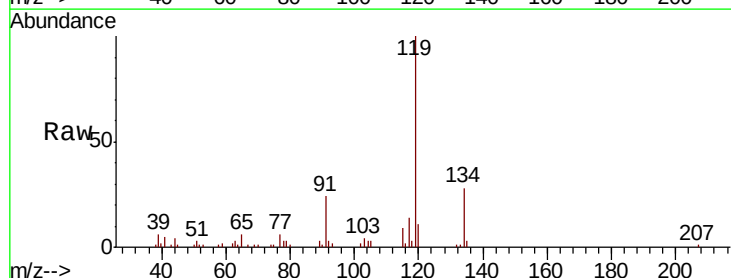
Tgt Ion: 119 Resp: 41624

Ion Ratio Lower Upper

119 100

91 24.0 0.0 131.6

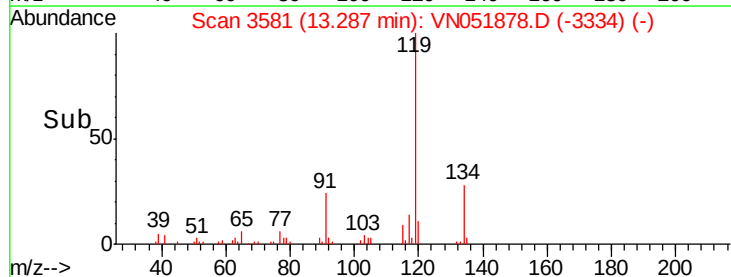
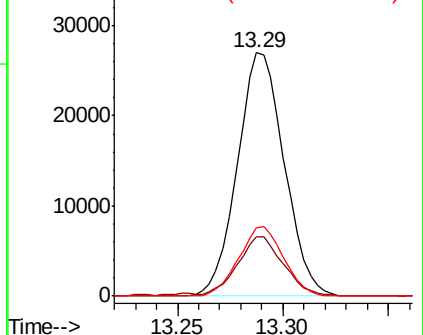
134 27.1 0.0 46.2

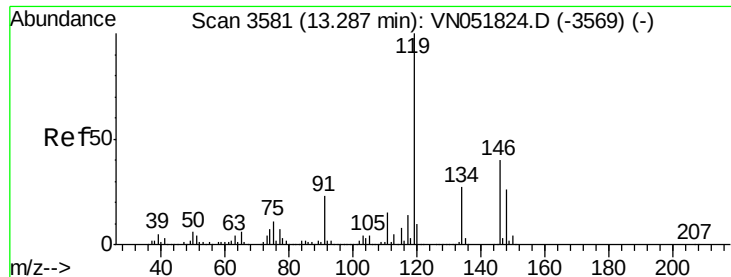


Abundance Ion 119.00 (118.70 to 119.70): VN051878.D (-3581) (-)

Ion 91.00 (90.70 to 91.70): VN051878.D (-3581) (-)

Ion 134.00 (133.70 to 134.70): VN051878.D (-3581) (-)

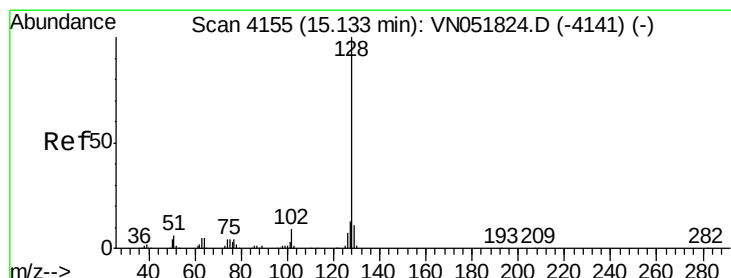
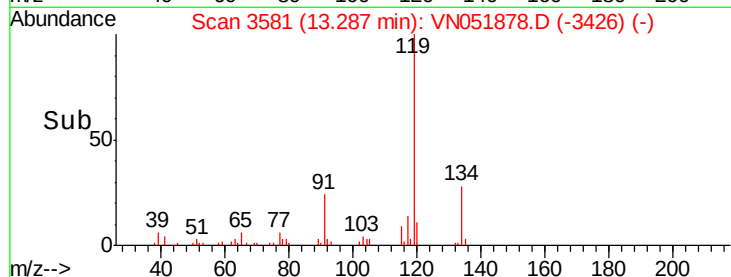
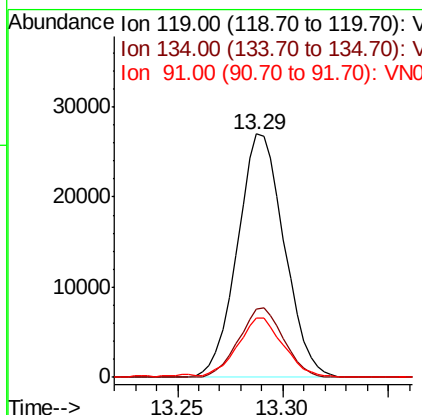
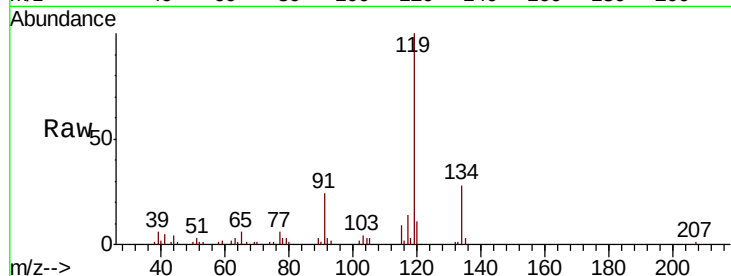




#82
p-Isopropyltoluene
Concen: 1.393 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.00 min
Lab File: VN051878.D
Acq: 15 Oct 2018 16:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:119 Resp: 41624
Ion Ratio Lower Upper
119 100
134 27.1 0.0 53.6
91 24.0 0.0 52.0



#91
Naphthalene
Concen: 8.535 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. -0.02 min
Lab File: VN051878.D
Acq: 15 Oct 2018 16:49

Tgt Ion:128 Resp: 30
Ion Ratio Lower Upper
128 100
127 0.0 10.1 15.1#
129 0.0 8.4 12.6#

