

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102518\
 Data File : VN052009.D
 Acq On : 25 Oct 2018 14:01
 Operator : MD\SY
 Sample : J5651-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR-200030

Quant Time: Oct 26 01:12:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1148572	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1681972	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1576892	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	736775	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	580843	56.78	ug/l	0.00
Spiked Amount			Recovery	=	113.56%	
35) Dibromofluoromethane	7.59	113	613074	57.12	ug/l	0.00
Spiked Amount			Recovery	=	114.24%	
50) Toluene-d8	10.09	98	2297186	59.23	ug/l	0.00
Spiked Amount			Recovery	=	118.46%	
62) 4-Bromofluorobenzene	12.40	95	725254	54.40	ug/l	0.00
Spiked Amount			Recovery	=	108.80%	

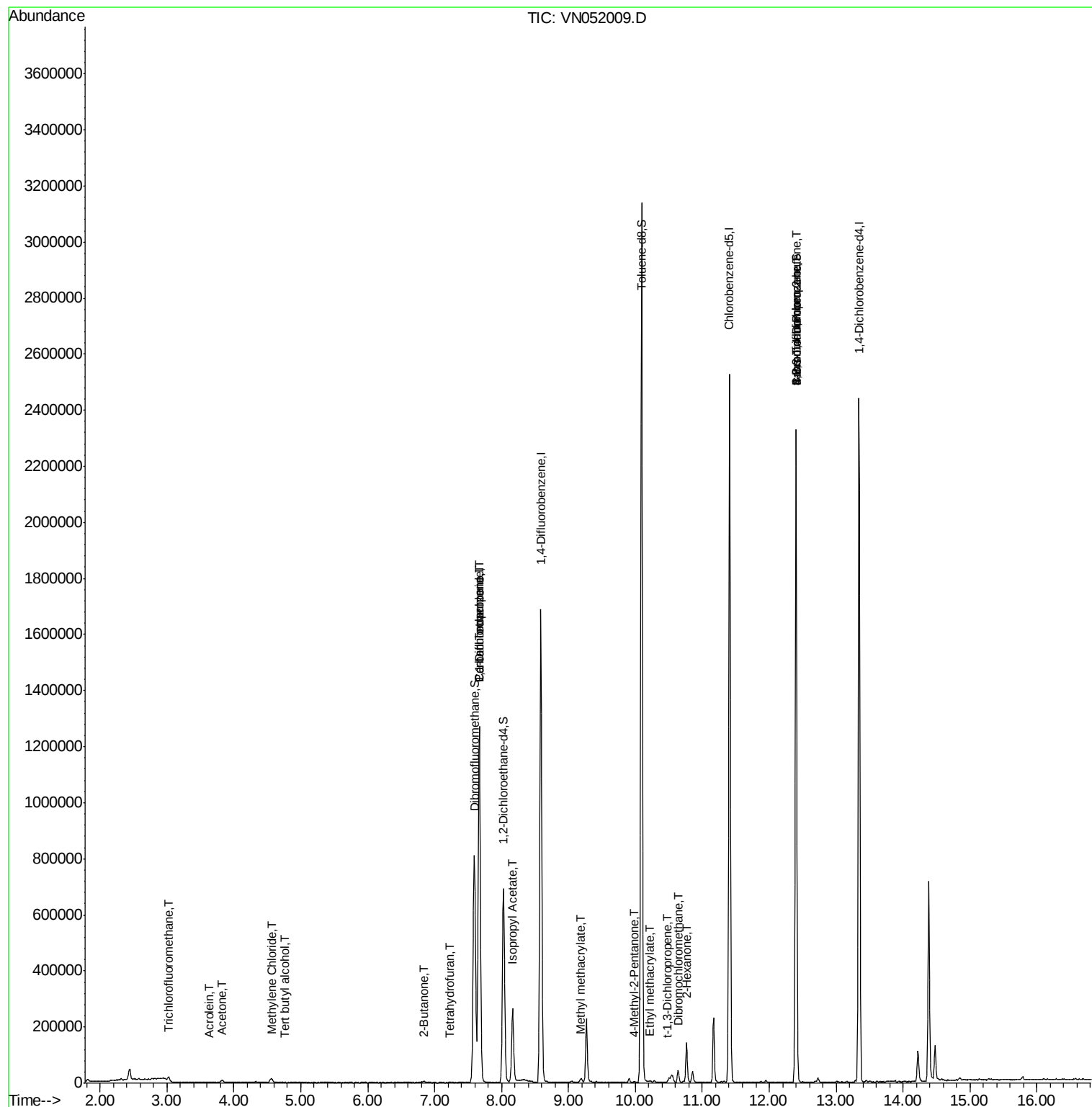
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	3.02	101	16985	1.084	ug/l	96
11) Tert butyl alcohol	4.76	59	137	0.259	ug/l #	72
13) Acrolein	3.63	56	118	37.602	ug/l #	14
16) Acetone	3.82	43	16125	9.568	ug/l	92
18) Methyl Acetate	4.33	43	6351	Below Cal	#	80
20) Methylene Chloride	4.55	84	11579	1.171	ug/l #	87
25) 2-Butanone	6.85	43	3837	1.597	ug/l #	71
29) Tetrahydrofuran	7.22	42	635	0.390	ug/l #	42
31) Cyclohexane	7.67	56	17099	Below Cal	#	27
36) 1,1-Dichloropropene	7.67	75	65676	5.090	ug/l #	42
37) Ethyl Acetate	6.93	43	160	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	101683	6.865	ug/l #	16
43) Isopropyl Acetate	8.17	43	289220	26.766	ug/l	98
48) Methyl methacrylate	9.18	41	7085	1.357	ug/l #	4
51) 4-Methyl-2-Pentanone	9.99	43	1518	0.255	ug/l	88
53) t-1,3-Dichloropropene	10.46	75	30	1.246	ug/l #	43
56) Ethyl methacrylate	10.22	69	3774	0.366	ug/l #	71
59) 2-Hexanone	10.76	43	17433	4.365	ug/l #	55
60) Dibromochloromethane	10.63	129	138	1.988	ug/l #	11
71) Bromoform	12.40	173	5995	4.349	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	348406	45.780	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	348406	144.053	ug/l #	12

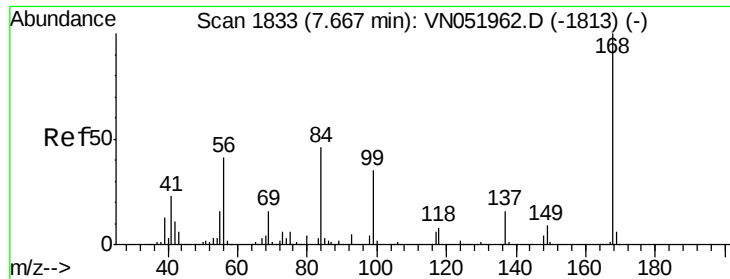
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 24 10:12:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

Instrument :

MSVOA_N

ClientSampled :

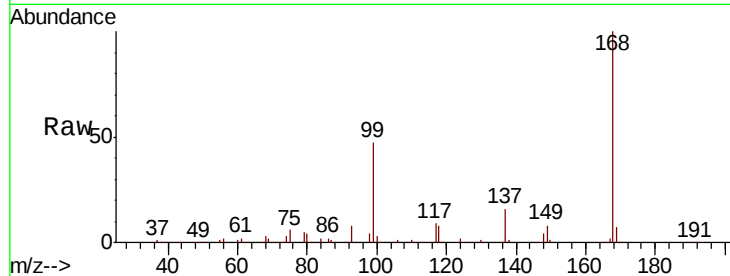
RBR-200030

Tot Ion:168 Resp: 1148572

Ion Ratio Lower Upper

168 100

99 46.8 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

300000

200000

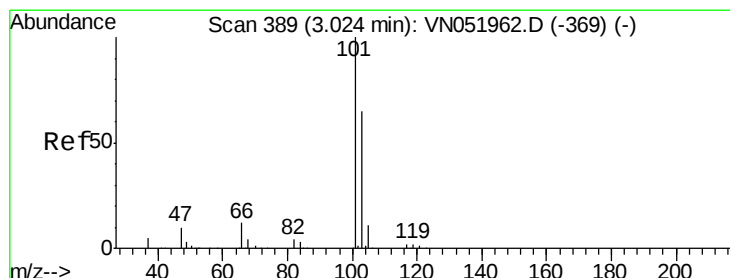
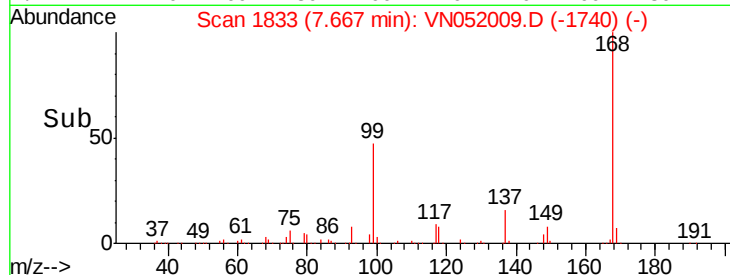
100000

0

7.60

7.70

Time-->



#7

Trichlorofluoromethane

Concen: 1.084 ug/l

RT: 3.02 min Scan# 389

Delta R.T. 0.00 min

Lab File: VN052009.D

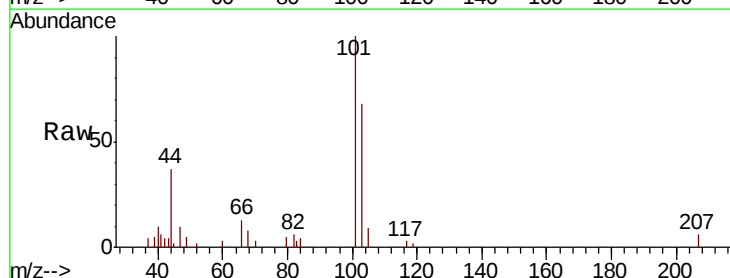
Acq: 25 Oct 2018 14:01

Tgt Ion:101 Resp: 16985

Ion Ratio Lower Upper

101 100

103 68.4 52.0 78.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.02

8000

6000

4000

2000

0

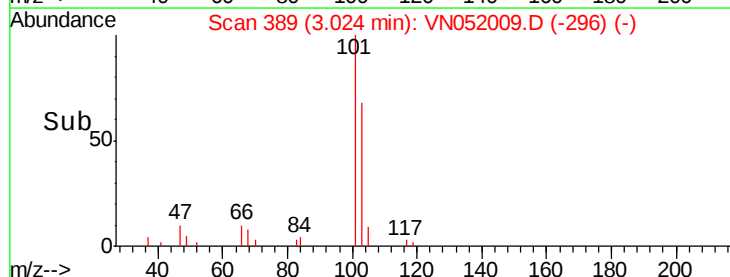
2.95

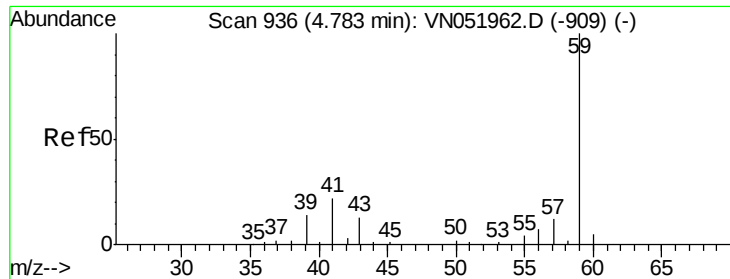
3.00

3.05

3.10

Time-->

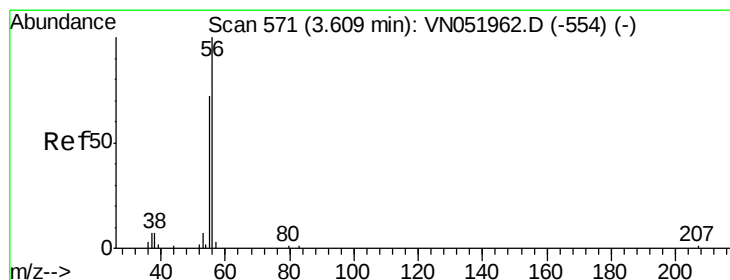
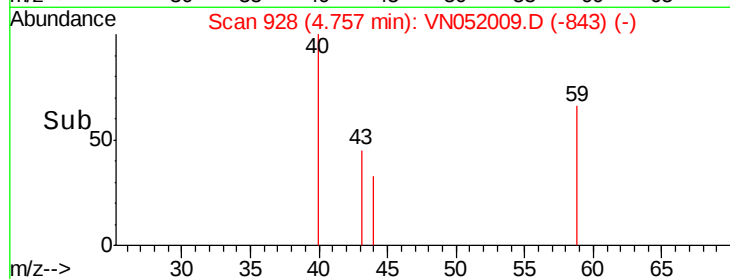
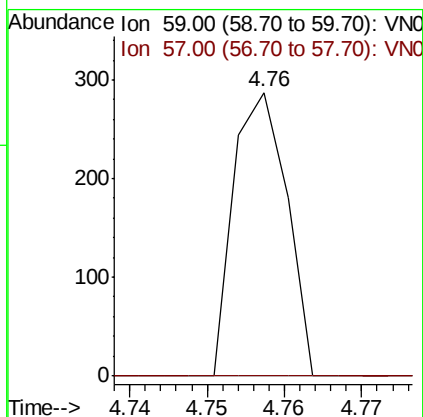
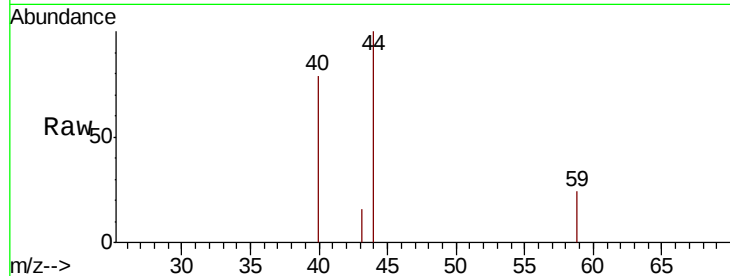




#11
Tert butyl alcohol
Concen: 0.259 ug/l
RT: 4.76 min Scan# 928
Delta R.T. -0.03 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

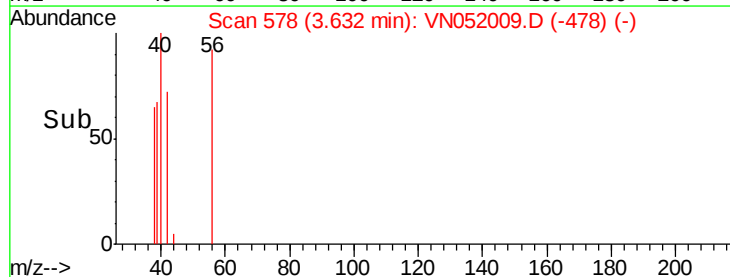
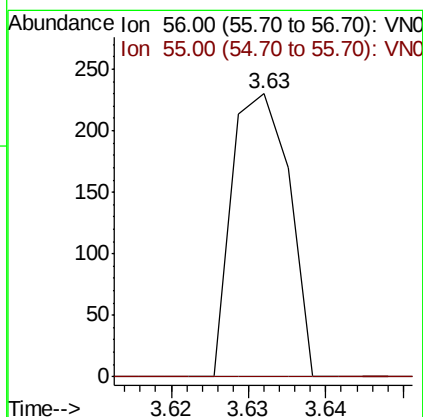
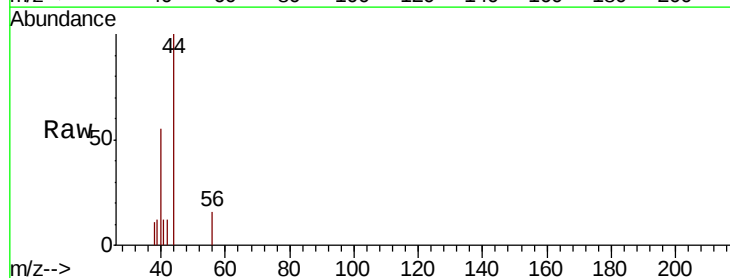
Instrument :
MSVOA_N
ClientSampleID :
RBR-200030

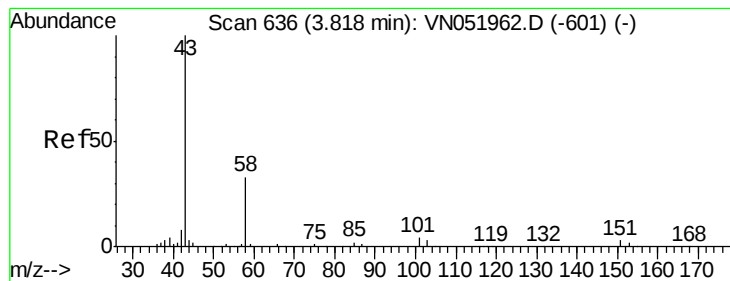
Tot Ion: 59 Resp: 137
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 37.602 ug/l
RT: 3.63 min Scan# 578
Delta R.T. 0.02 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

Tgt Ion: 56 Resp: 118
Ion Ratio Lower Upper
56 100
55 0.0 56.6 84.8#





#16

Acetone

Concen: 9.568 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

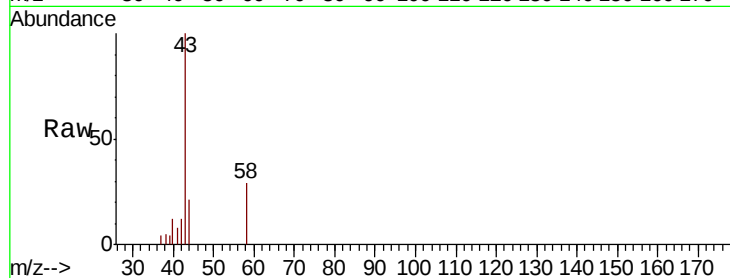
RBR-200030

Tot Ion: 43 Resp: 16125

Ion Ratio Lower Upper

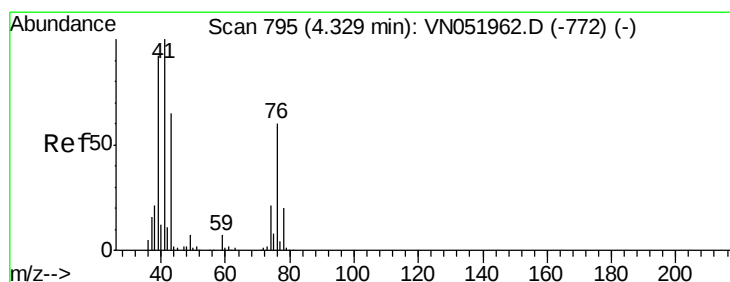
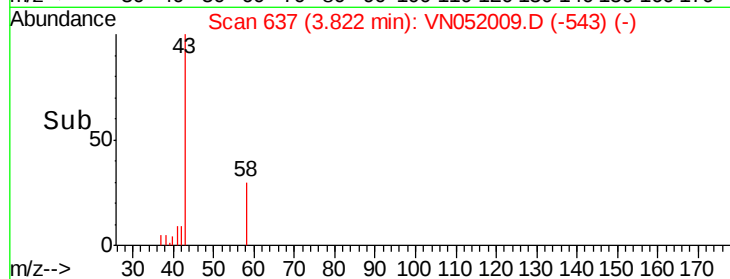
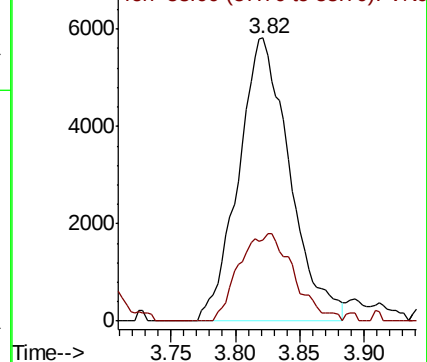
43 100

58 28.8 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052009.D

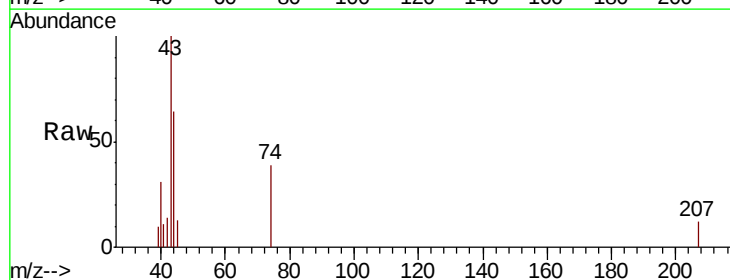
Acq: 25 Oct 2018 14:01

Tgt Ion: 43 Resp: 6351

Ion Ratio Lower Upper

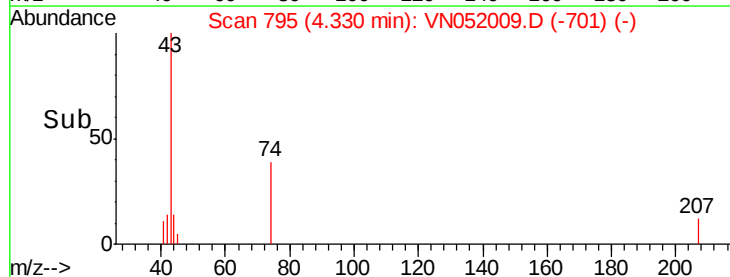
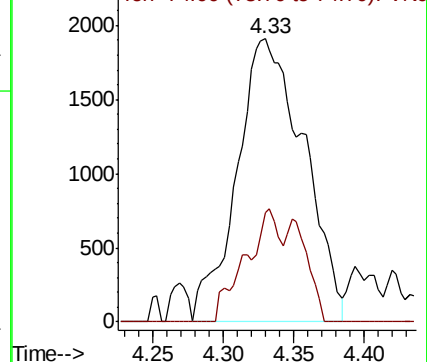
43 100

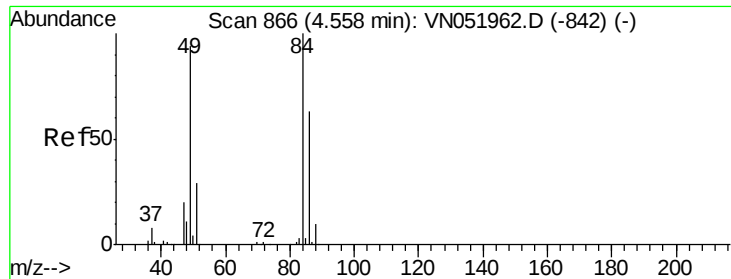
74 20.8 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

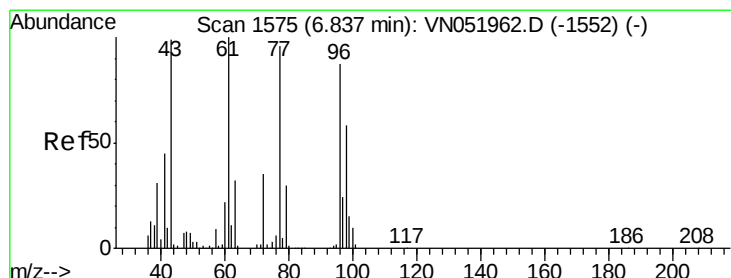
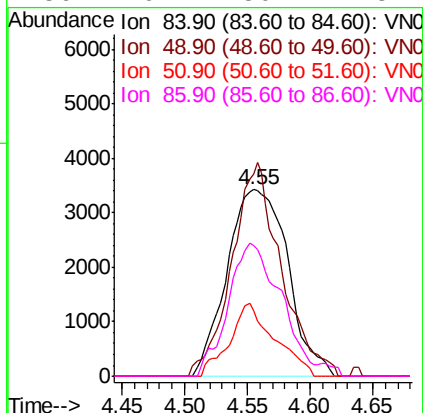
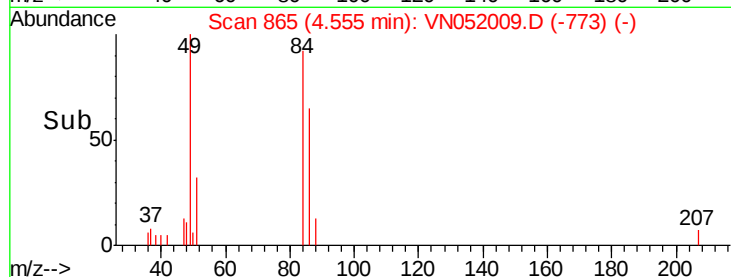
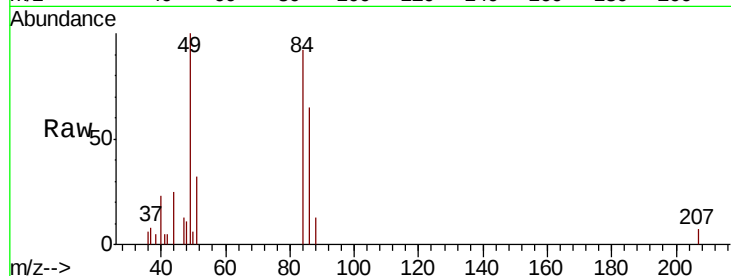




#20
Methvlene Chloride
Concen: 1.171 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

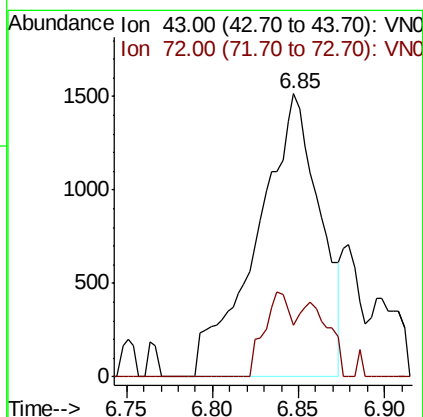
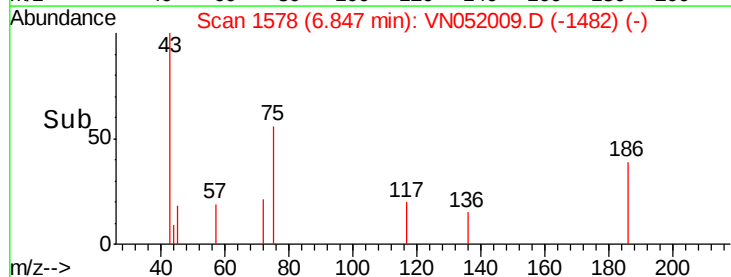
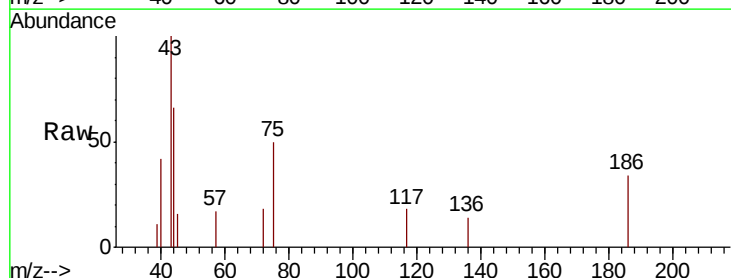
Instrument :
MSVOA_N
ClientSampled :
RBR-200030

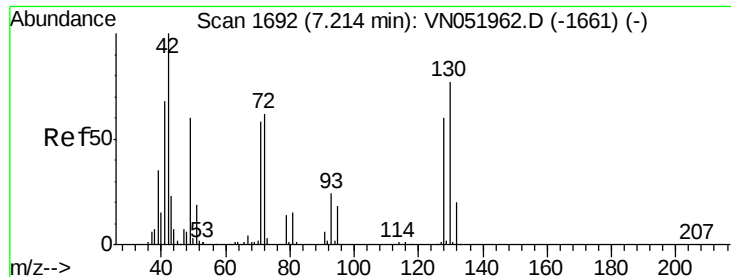
Tot Ion: 84 Resp: 11579
Ion Ratio Lower Upper
84 100
49 108.6 75.4 113.0
51 35.3 23.1 34.7#
86 70.2 50.2 75.4



#25
2-Butanone
Concen: 1.597 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

Tgt Ion: 43 Resp: 3837
Ion Ratio Lower Upper
43 100
72 18.5 28.5 42.7#

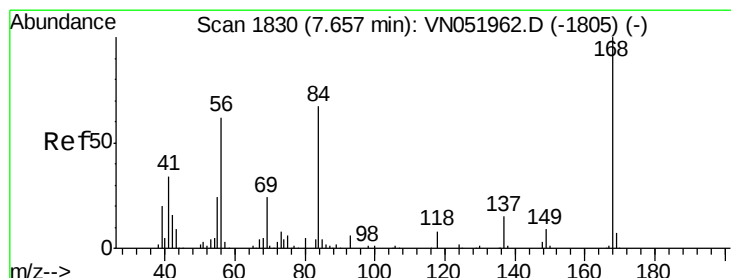
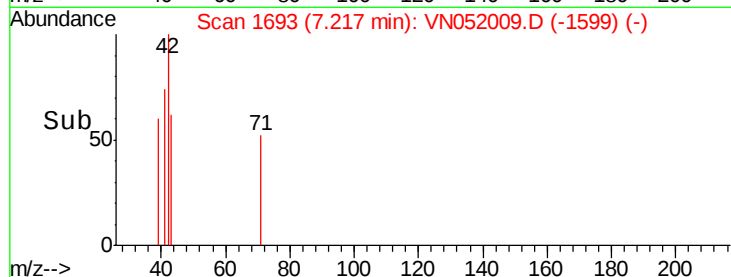
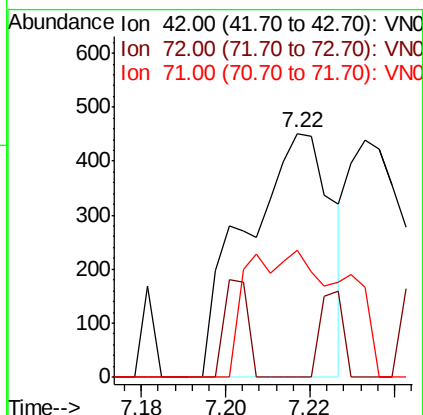
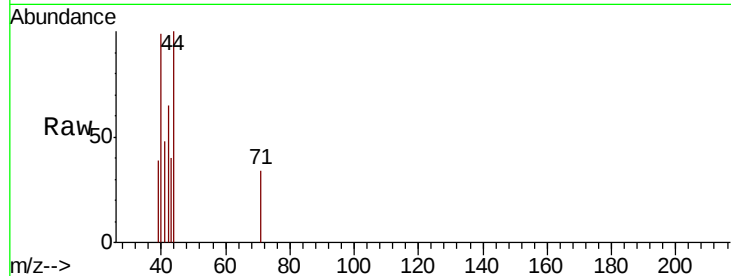




#29
Tetrahydrofuran
Concen: 0.390 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

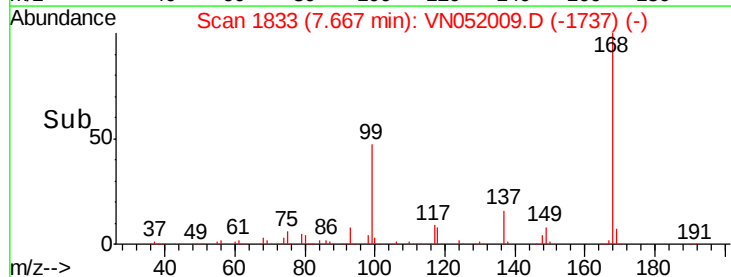
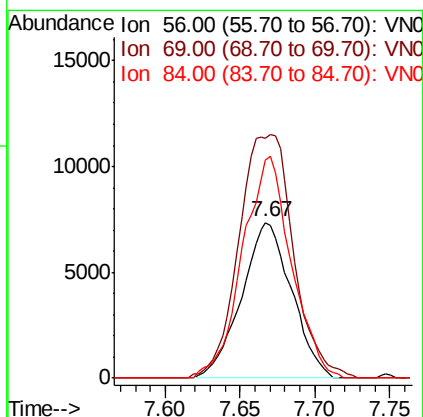
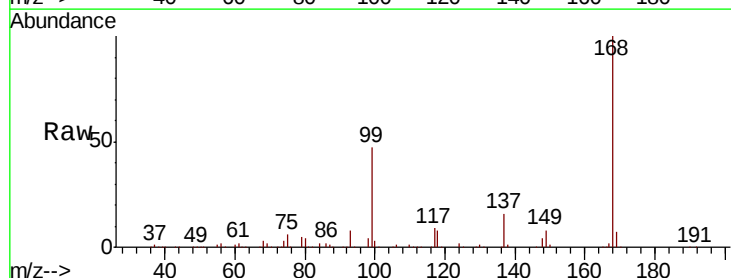
Instrument :
MSVOA_N
ClientSampled :
RBR-200030

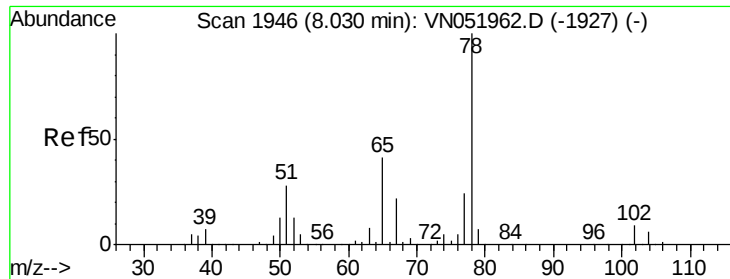
Tot Ion: 42 Resp: 635
Ion Ratio Lower Upper
42 100
72 10.9 47.5 71.3#
71 18.9 45.4 68.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

Tgt Ion: 56 Resp: 17099
Ion Ratio Lower Upper
56 100
69 154.3 31.2 46.8#
84 139.8 86.3 129.5#

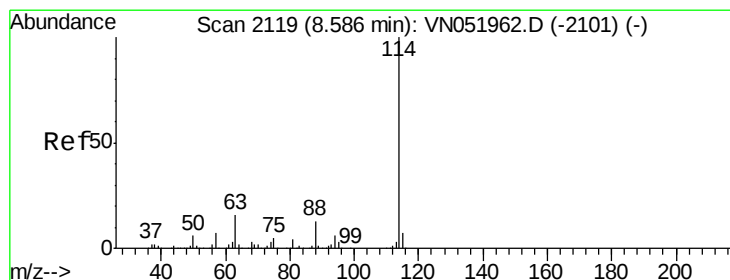
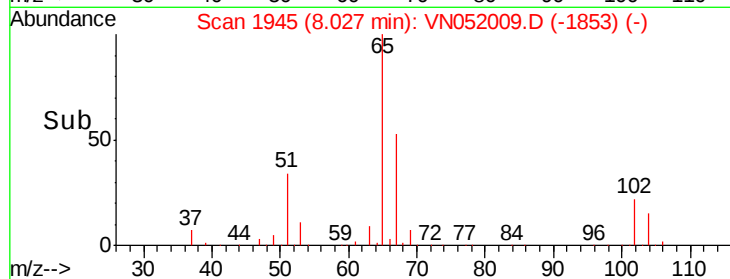
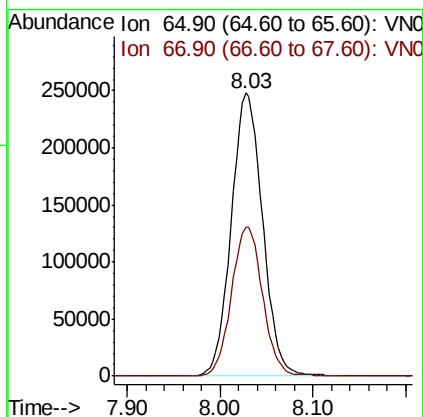
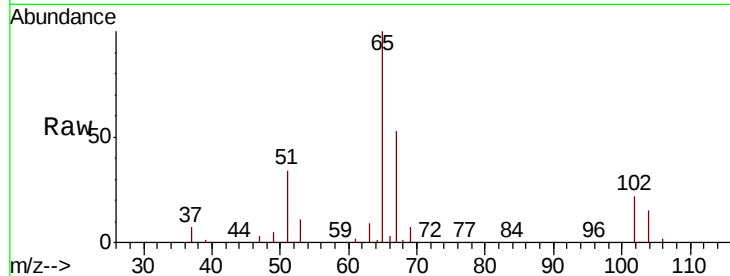




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052009.D
 Acq: 25 Oct 2018 14:01

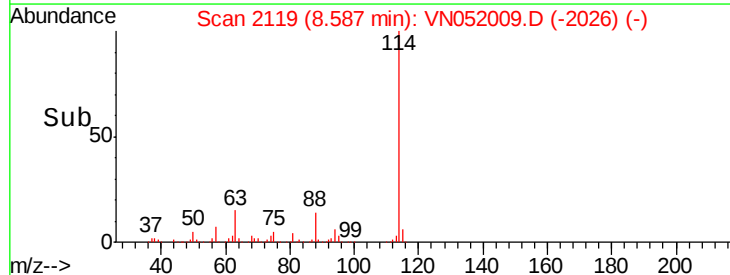
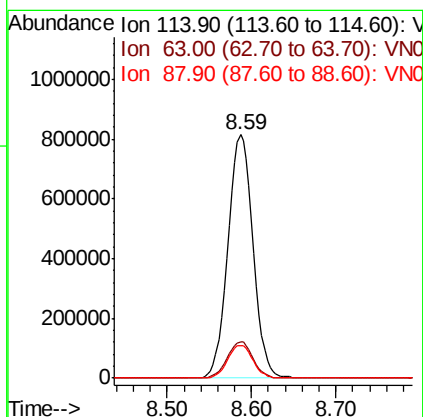
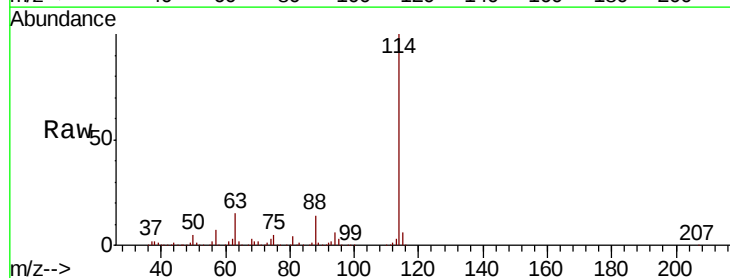
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 RBR-200030

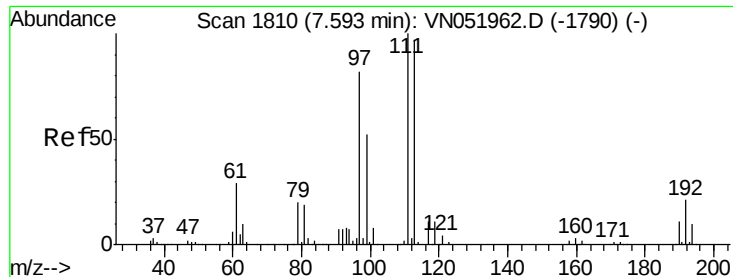
Tot Ion: 65 Resp: 580843
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052009.D
 Acq: 25 Oct 2018 14:01

Tgt Ion: 114 Resp: 1681972
 Ion Ratio Lower Upper
 114 100
 63 15.0 0.0 31.2
 88 13.6 0.0 27.0

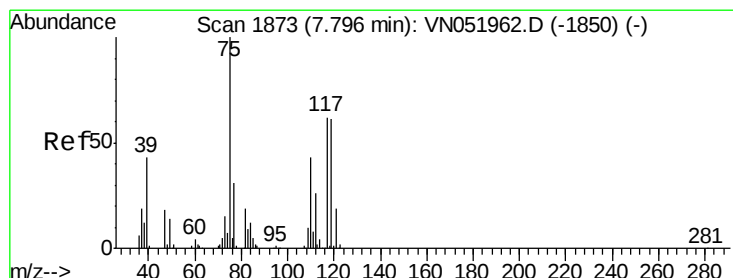
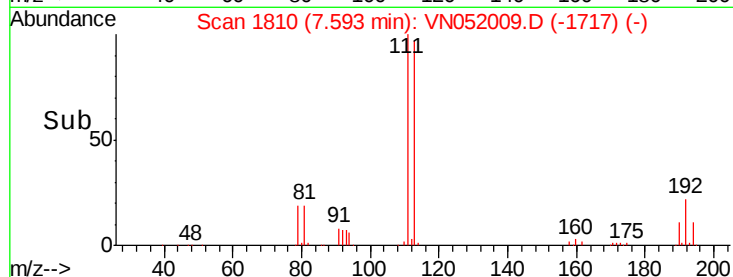
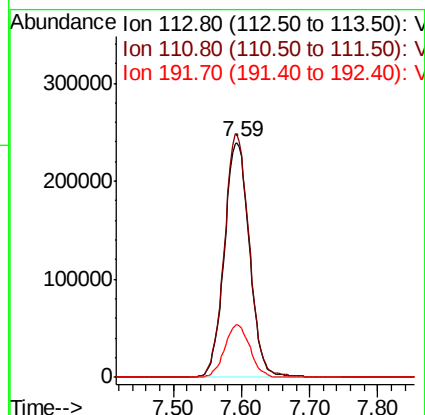
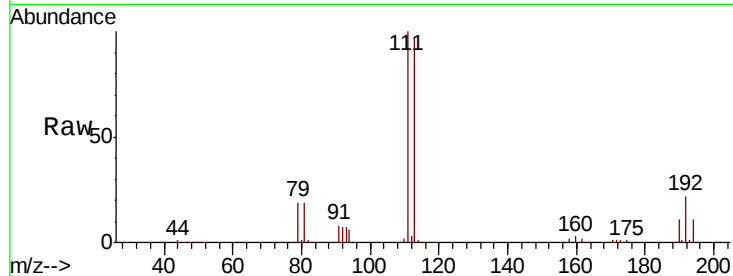




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052009.D
 Acq: 25 Oct 2018 14:01

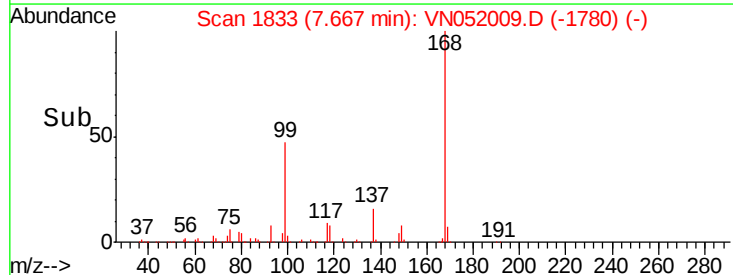
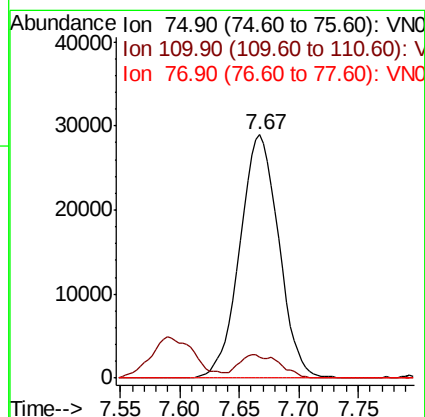
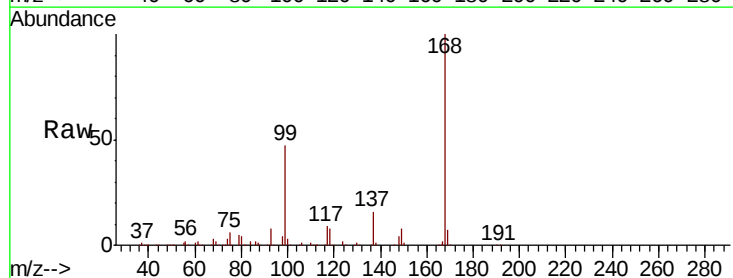
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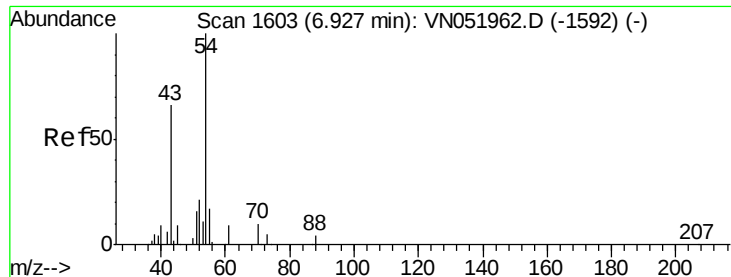
Tot Ion:113 Resp: 613074
 Ion Ratio Lower Upper
 113 100
 111 102.8 80.7 121.1
 192 22.5 17.2 25.8



#36
 1,1-Dichloropropene
 Concen: 5.090 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052009.D
 Acq: 25 Oct 2018 14:01

Tgt Ion: 75 Resp: 65676
 Ion Ratio Lower Upper
 75 100
 110 4.2 20.9 62.8#
 77 0.0 24.9 37.3#

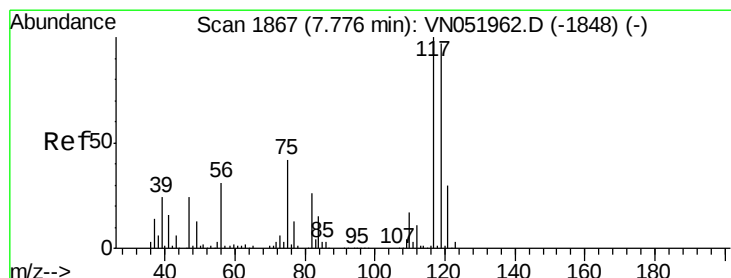
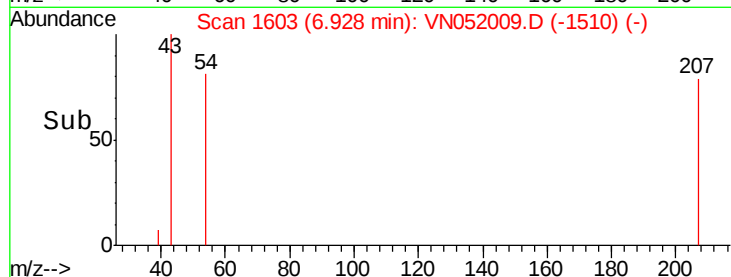
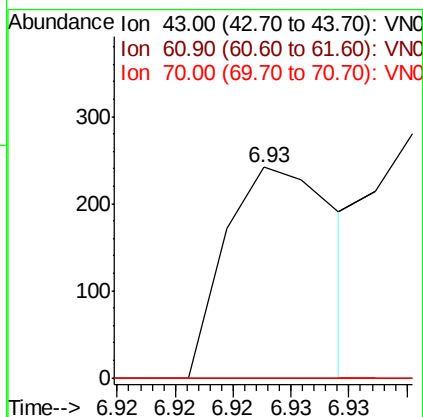
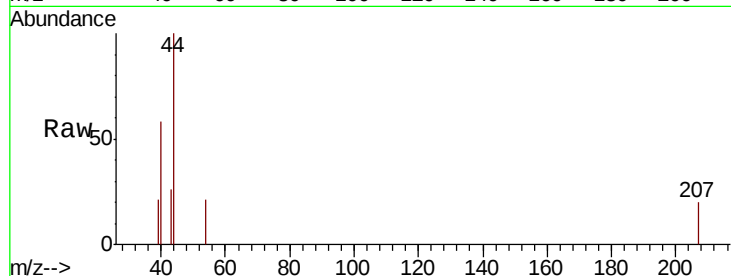




#37
Ethyl Acetate
Concen: Below Cal
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

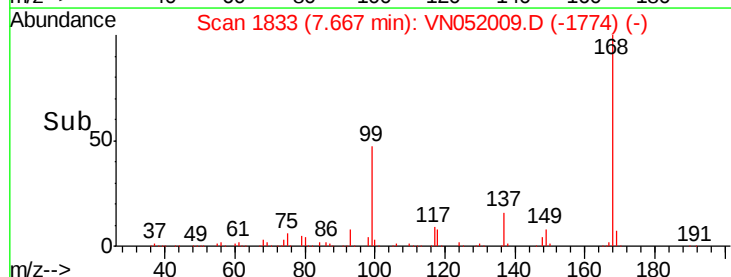
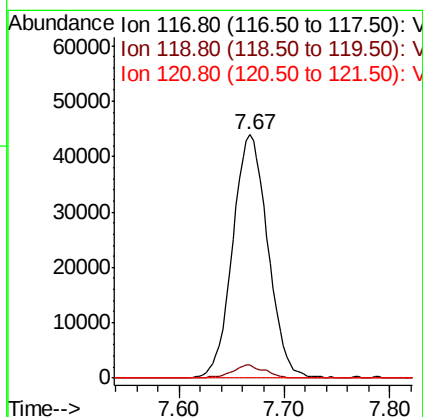
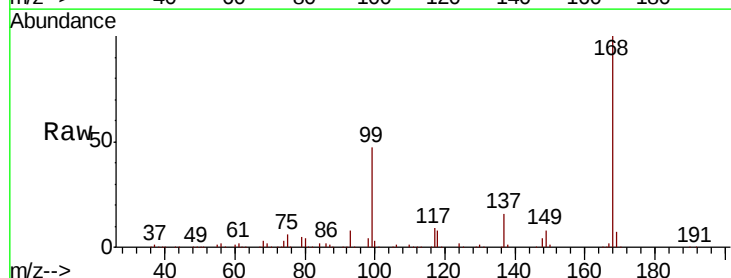
Instrument :
MSVOA_N
ClientSampleId :
RBR-200030

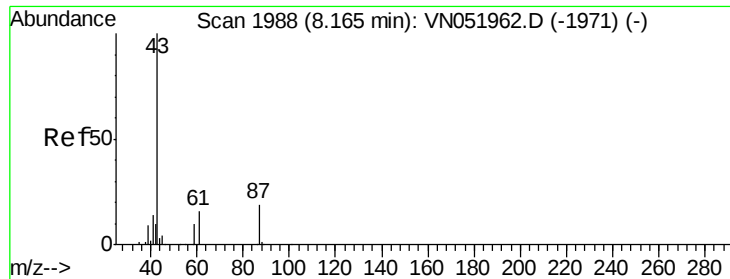
Tot Ion: 43 Resp: 160
Ion Ratio Lower Upper
43 100
61 0.0 13.5 20.3#
70 0.0 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 6.865 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

Tgt Ion: 117 Resp: 101683
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.0#
121 0.0 24.2 36.4#





#43

Isopropyl Acetate

Concen: 26.766 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

RBR-200030

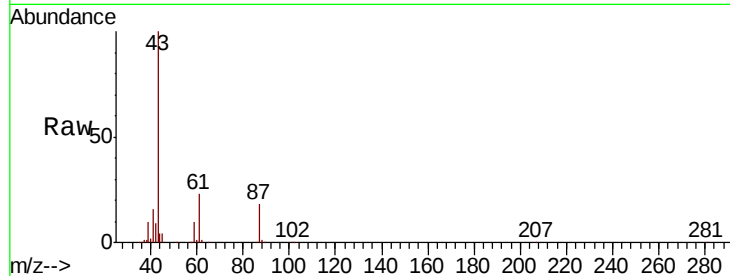
Tot Ion: 43 Resp: 289220

Ion Ratio Lower Upper

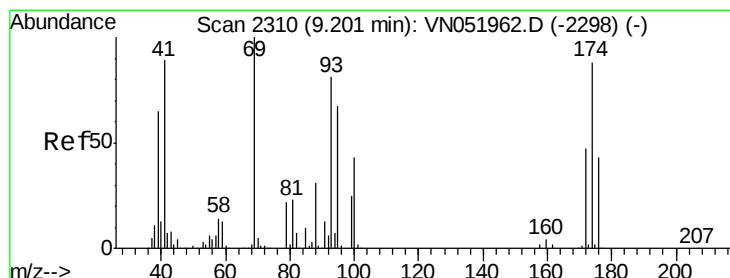
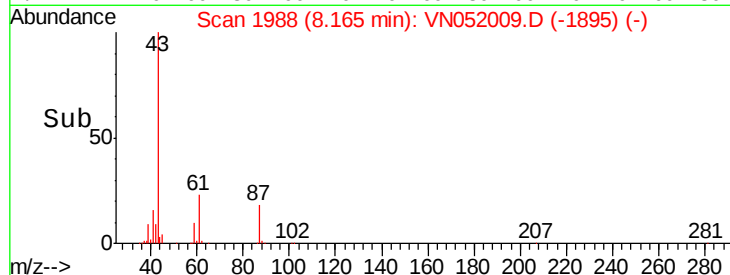
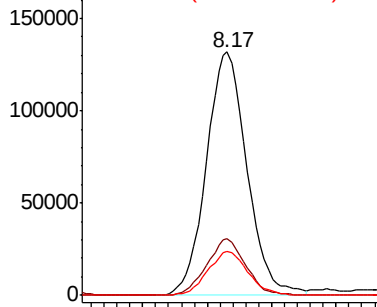
43 100

61 22.3 17.2 25.8

87 17.9 15.2 22.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.357 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

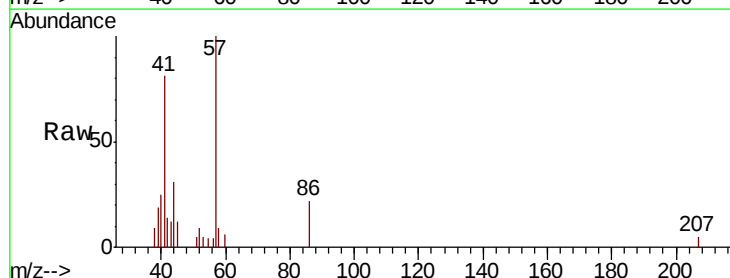
Tgt Ion: 41 Resp: 7085

Ion Ratio Lower Upper

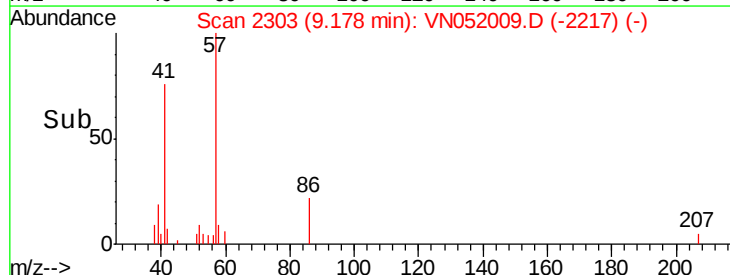
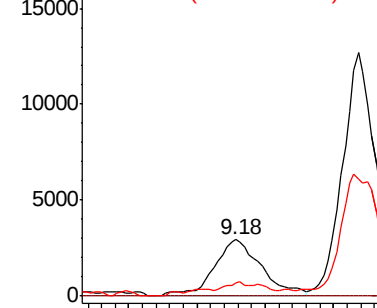
41 100

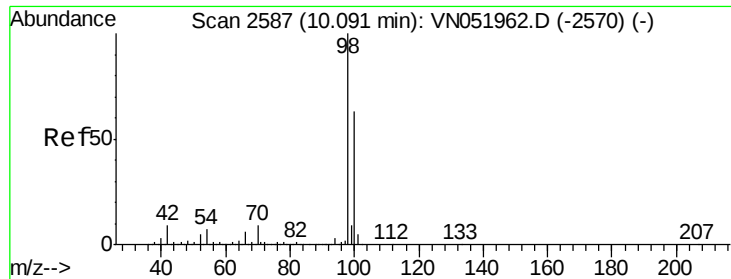
69 0.0 92.2 138.4#

39 5.7 60.2 90.4#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

Instrument :

MSVOA_N

ClientSampled :

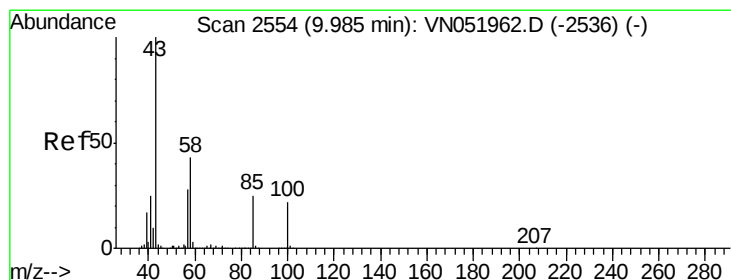
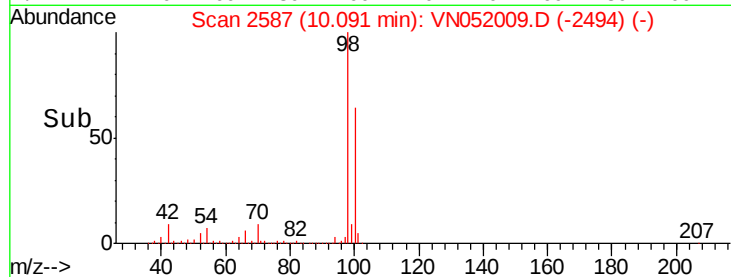
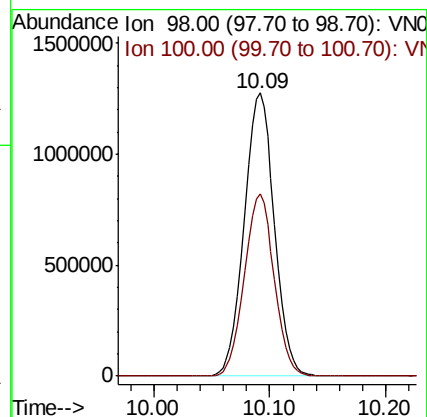
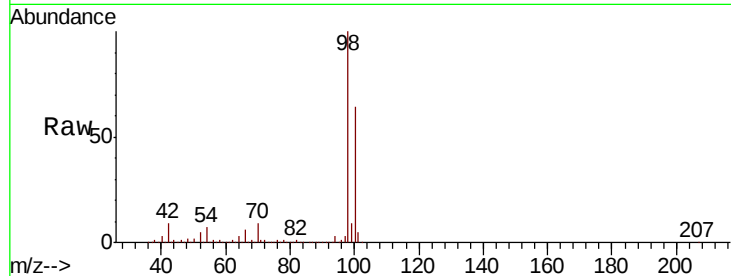
RBR-200030

Tot Ion: 98 Resp: 2297186

Ion Ratio Lower Upper

98 100

100 63.7 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.255 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052009.D

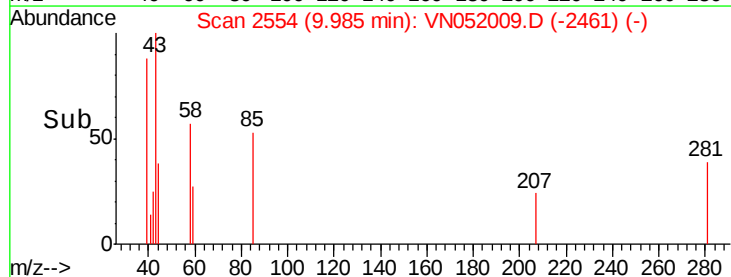
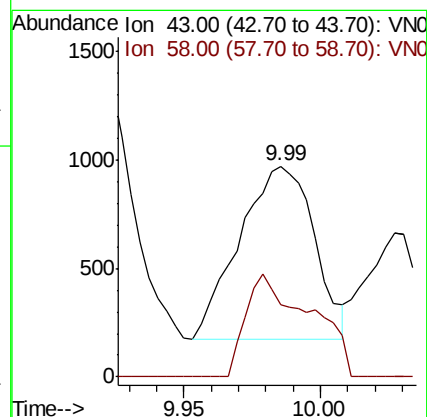
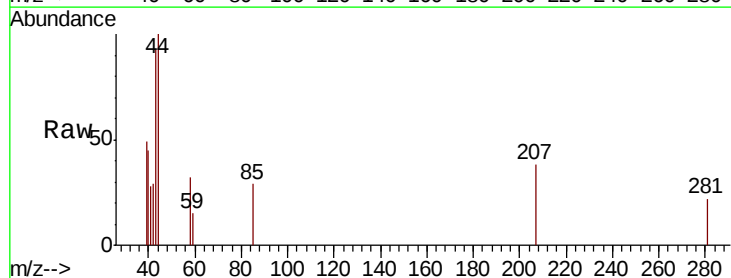
Acq: 25 Oct 2018 14:01

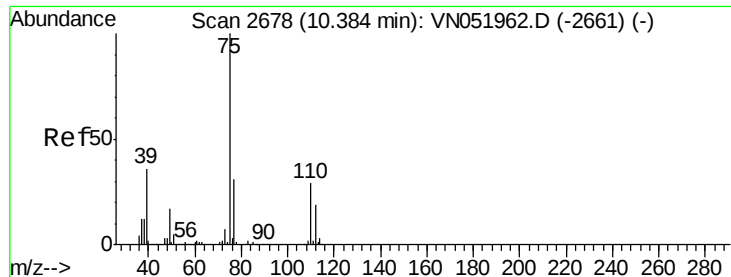
Tgt Ion: 43 Resp: 1518

Ion Ratio Lower Upper

43 100

58 50.9 34.8 52.2

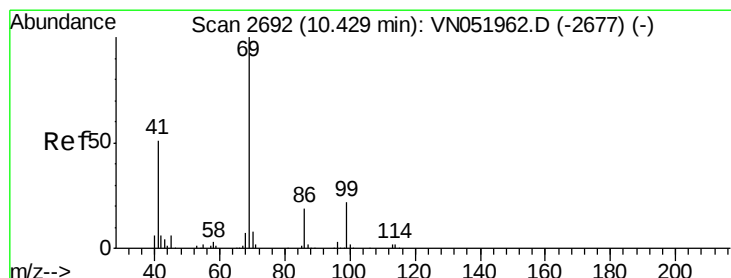
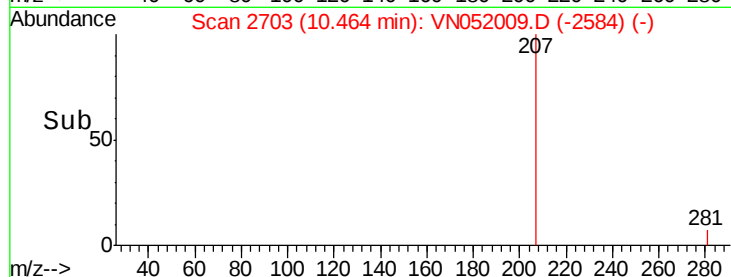
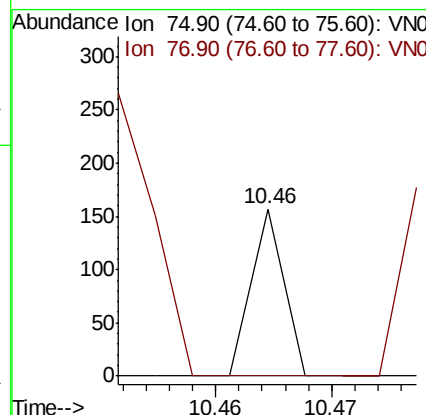
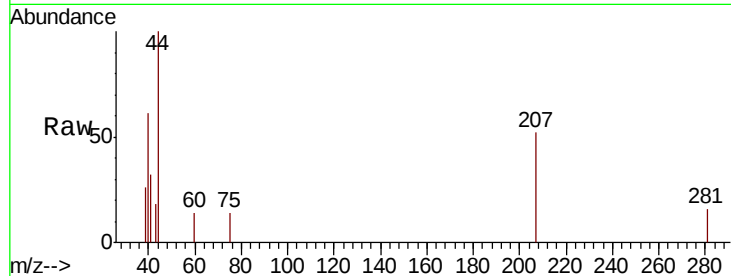




#53
t-1,3-Dichloropropene
Concen: 1.246 ug/l
RT: 10.46 min Scan# 2703
Delta R.T. 0.08 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

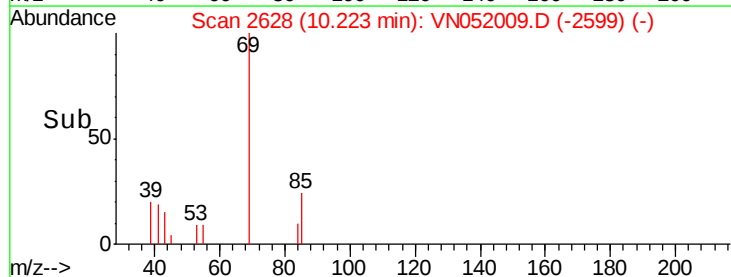
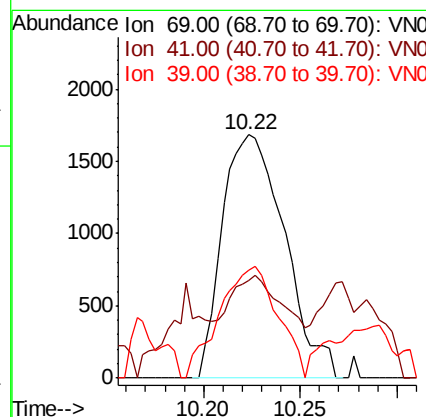
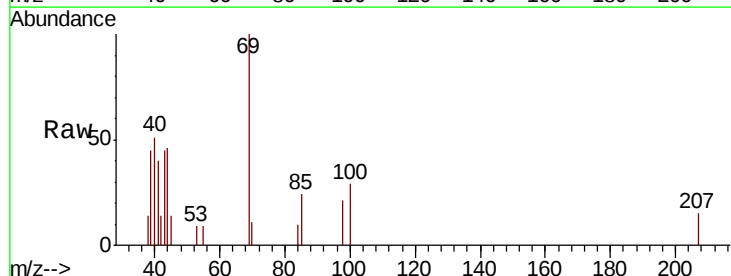
Instrument :
MSVOA_N
ClientSampled :
RBR-200030

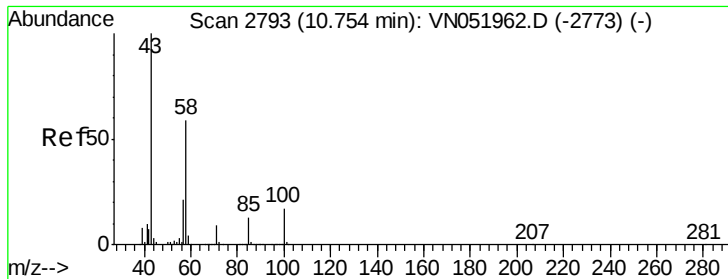
Tot Ion: 75 Resp: 30
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#



#56
Ethyl methacrylate
Concen: 0.366 ug/l
RT: 10.22 min Scan# 2628
Delta R.T. -0.21 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

Tgt Ion: 69 Resp: 3774
Ion Ratio Lower Upper
69 100
41 20.9 40.7 61.1#
39 42.8 29.3 43.9





#59

2-Hexanone

Concen: 4.365 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

Instrument :

MSVOA_N

ClientSampled :

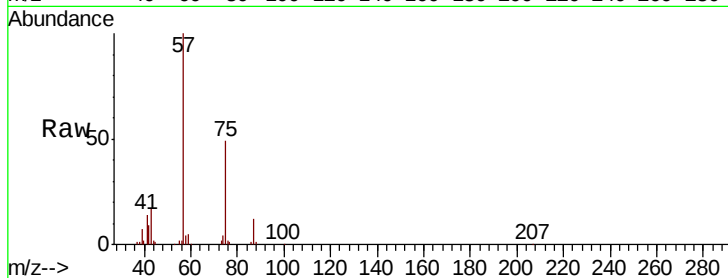
RBR-200030

Tot Ion: 43 Resp: 17433

Ion Ratio Lower Upper

43 100

58 26.3 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-2773) (-)

Ion 58.00 (57.70 to 58.70): VN051962.D (-2773) (-)

15000

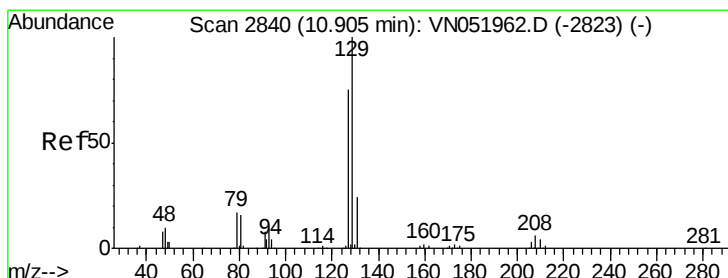
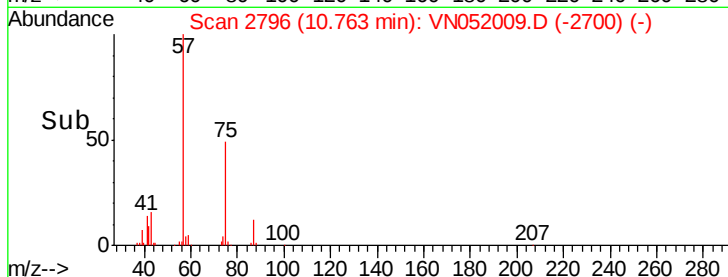
10000

5000

0

10.70 10.75 10.80

Time-->



#60

Dibromochloromethane

Concen: 1.988 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.28 min

Lab File: VN052009.D

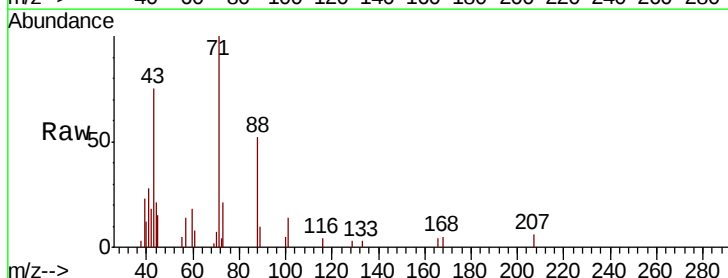
Acq: 25 Oct 2018 14:01

Tgt Ion: 129 Resp: 138

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.0#



Abundance Ion 128.80 (128.50 to 129.50): VN051962.D (-2823) (-)

Ion 126.80 (126.50 to 127.50): VN051962.D (-2823) (-)

200

150

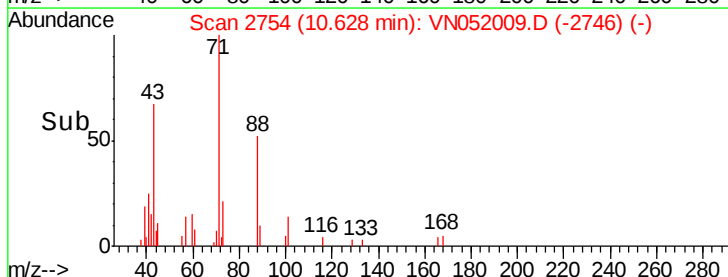
100

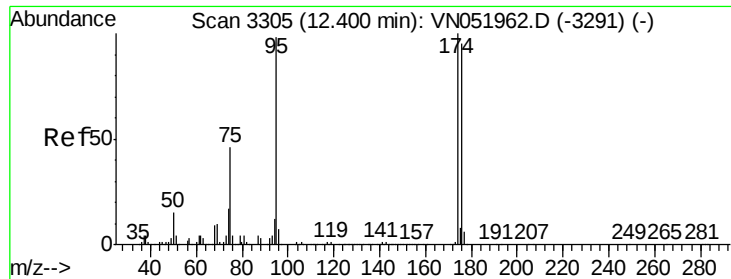
50

0

10.62 10.63 10.64

Time-->

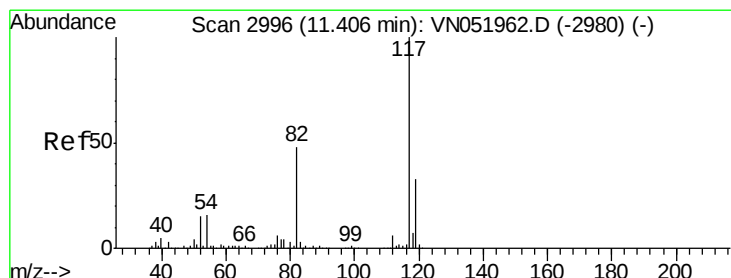
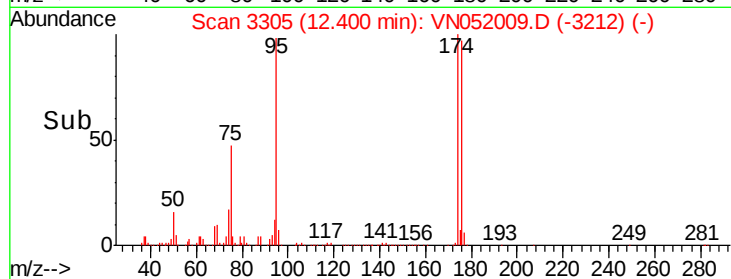
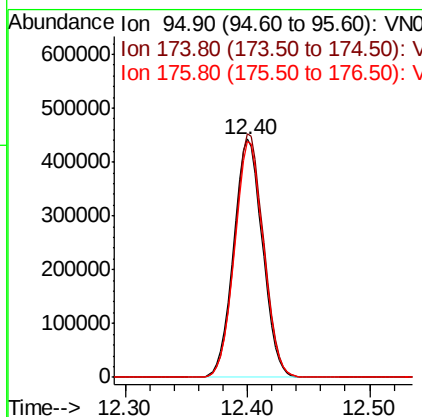
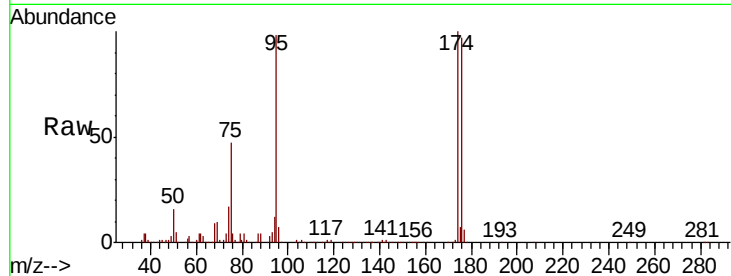




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

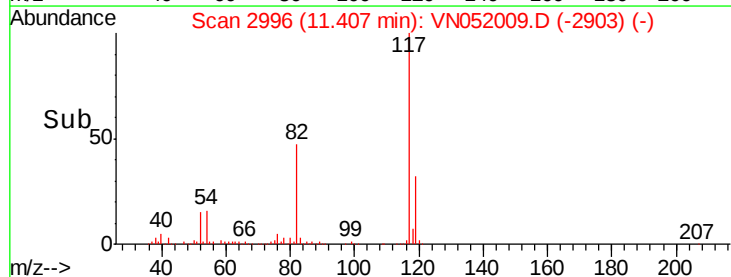
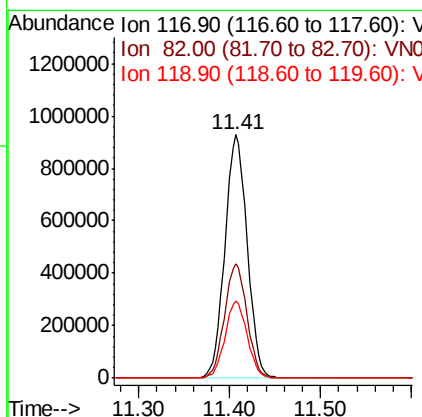
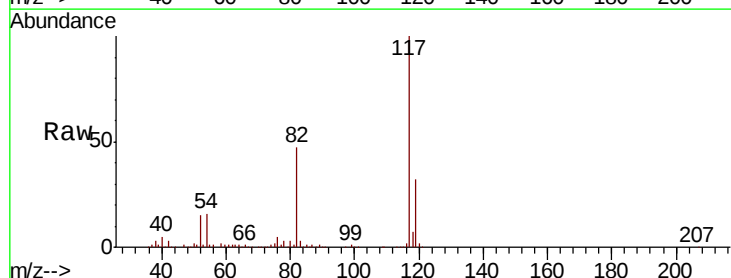
Instrument :
MSVOA_N
ClientSampleId :
RBR-200030

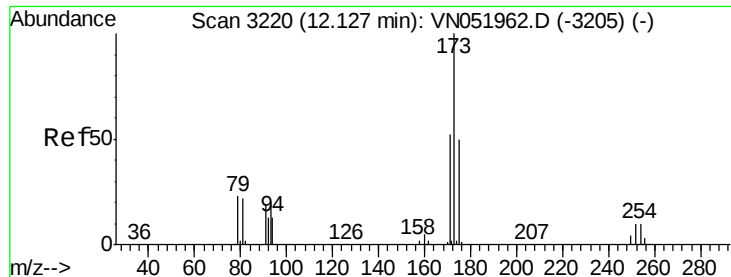
Tot Ion: 95 Resp: 725254
Ion Ratio Lower Upper
95 100
174 102.4 0.0 206.0
176 98.5 0.0 198.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052009.D
Acq: 25 Oct 2018 14:01

Tgt Ion: 117 Resp: 1576892
Ion Ratio Lower Upper
117 100
82 47.1 38.1 57.1
119 31.8 26.4 39.6





#71

Bromoform

Concen: 4.349 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

RBR-200030

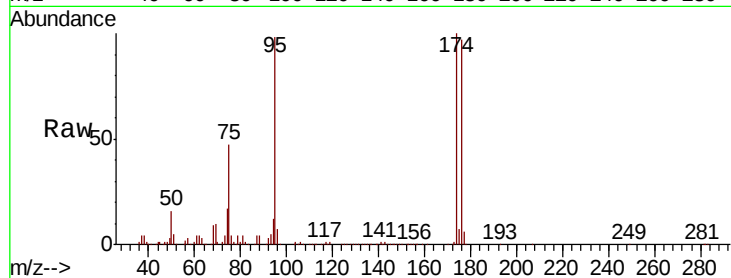
Tot Ion:173 Resp: 5995

Ion Ratio Lower Upper

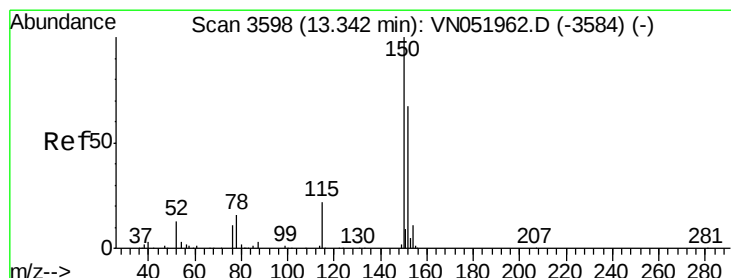
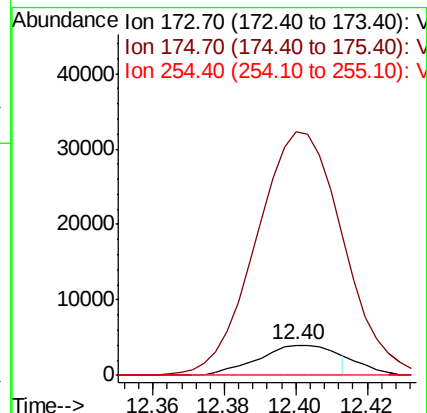
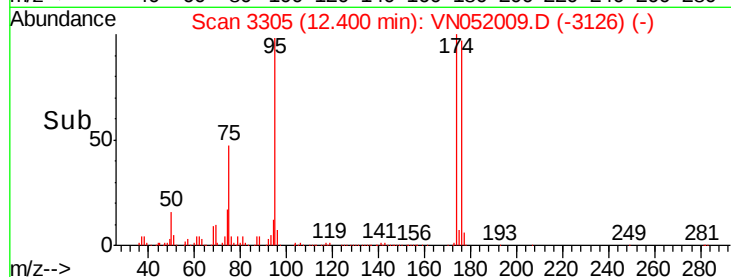
173 100

175 805.8 24.6 74.0#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

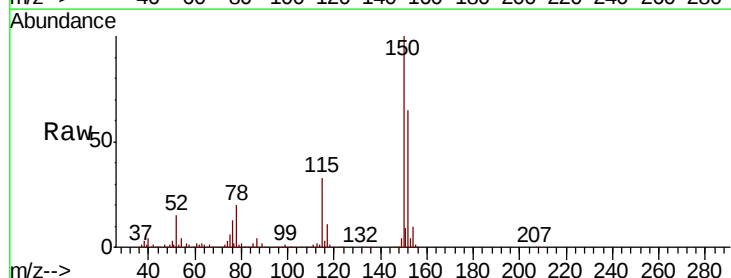
Tgt Ion:152 Resp: 736775

Ion Ratio Lower Upper

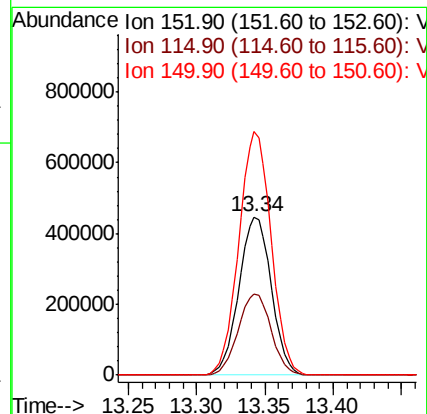
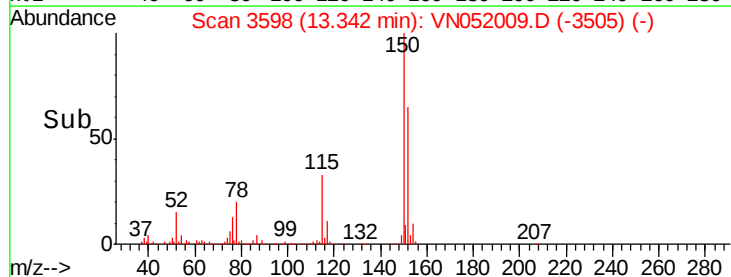
152 100

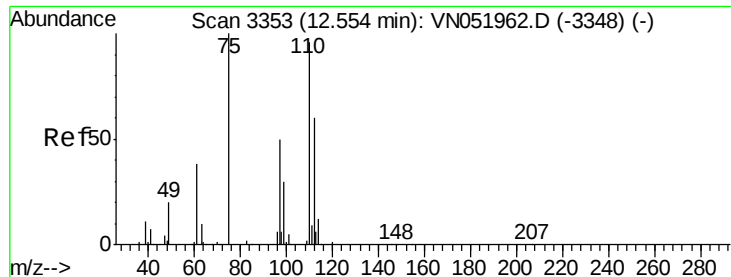
115 52.2 25.8 77.3

150 153.4 0.0 344.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 45.780 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

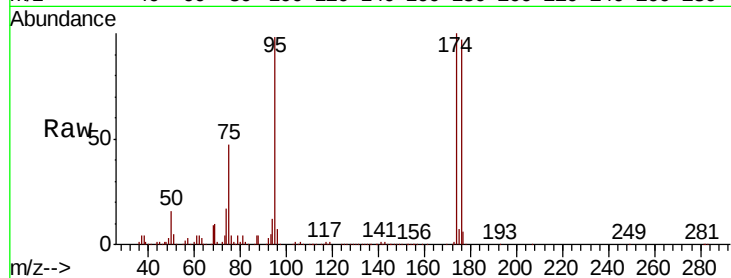
RBR-200030

Tot Ion: 75 Resp: 348406

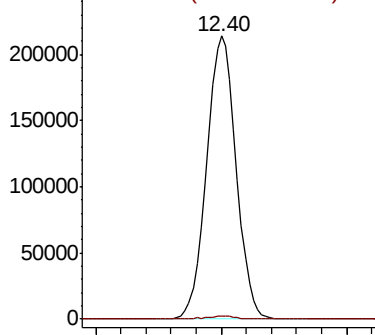
Ion Ratio Lower Upper

75 100

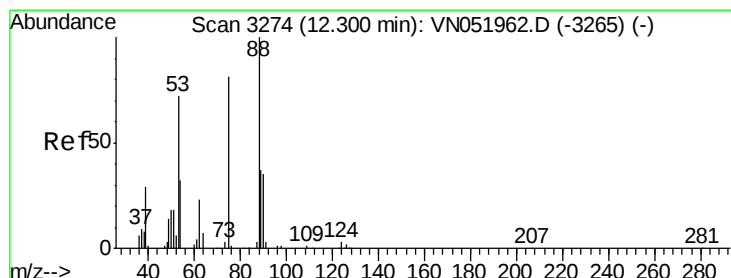
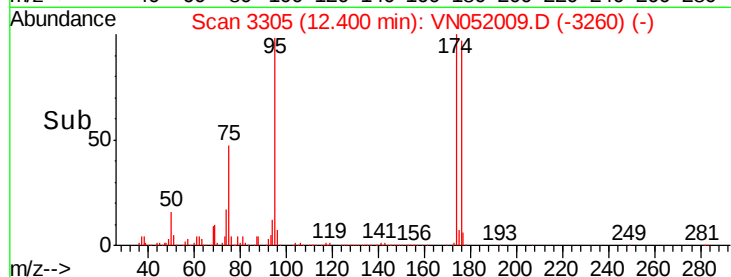
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 144.053 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052009.D

Acq: 25 Oct 2018 14:01

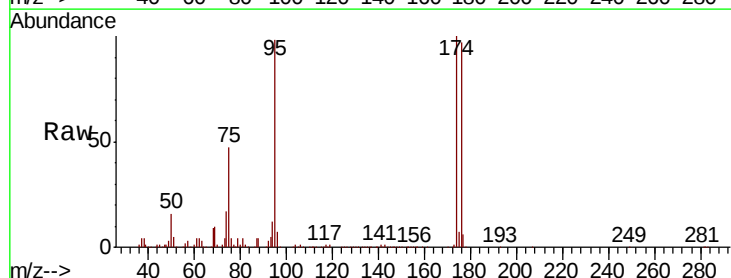
Tgt Ion: 75 Resp: 348406

Ion Ratio Lower Upper

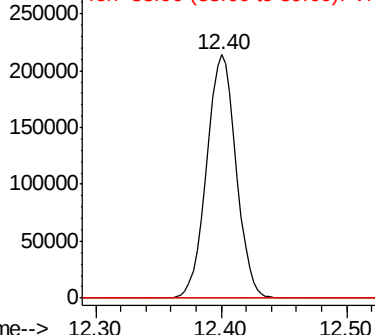
75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO



Time-->

