

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102518\
 Data File : VN052008.D
 Acq On : 25 Oct 2018 13:35
 Operator : MD\SY
 Sample : J5661-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VB44949

Quant Time: Oct 26 01:11:45 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	1120555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1659437	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1569469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	718957	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	583147	58.43	ug/l	0.00
Spiked Amount			Recovery	=	116.86%	
35) Dibromofluoromethane	7.59	113	613438	57.93	ug/l	0.00
Spiked Amount			Recovery	=	115.86%	
50) Toluene-d8	10.09	98	2248695	58.77	ug/l	0.00
Spiked Amount			Recovery	=	117.54%	
62) 4-Bromofluorobenzene	12.40	95	718646	54.64	ug/l	0.00
Spiked Amount			Recovery	=	109.28%	

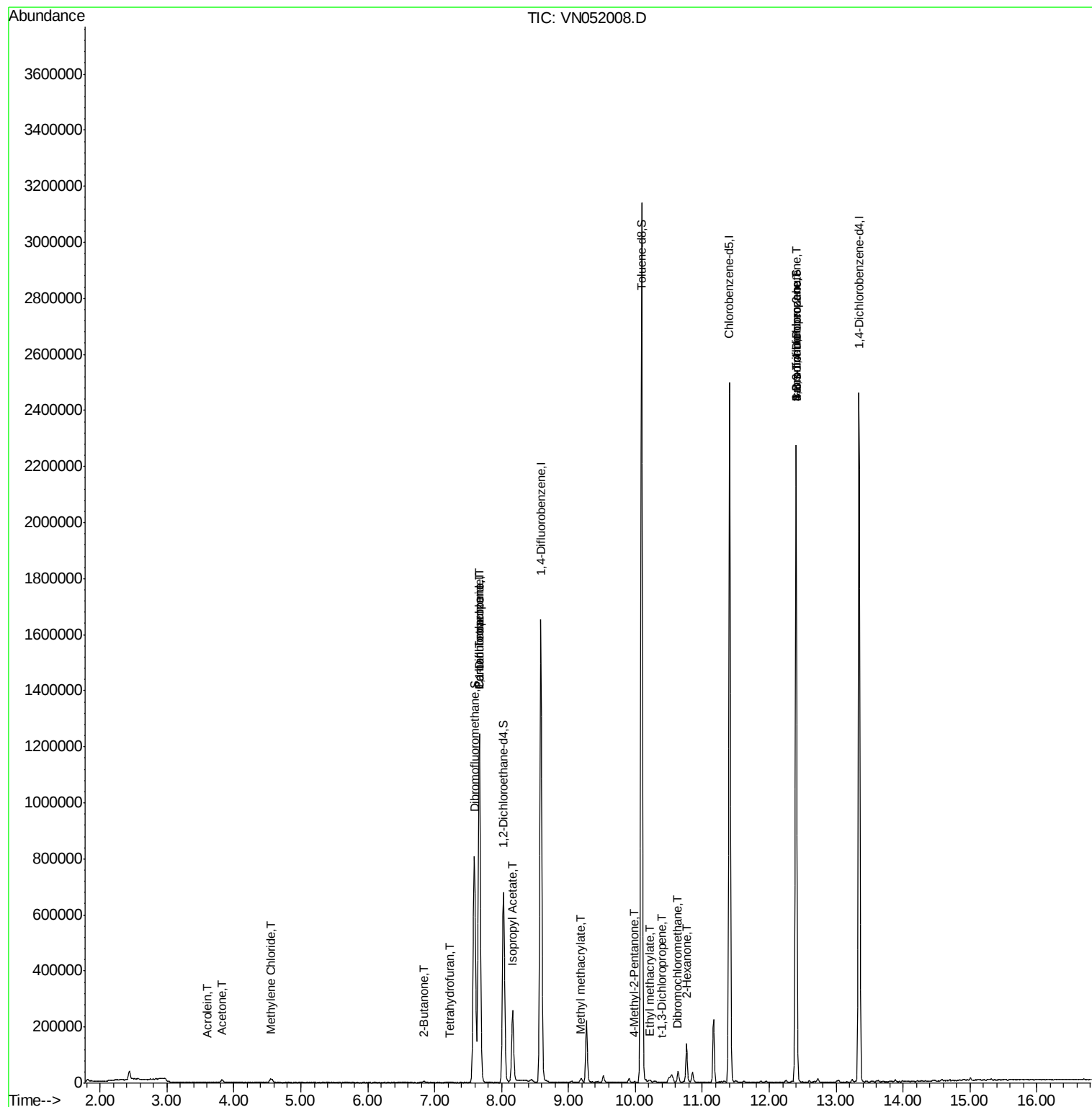
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	69	37.470	ug/l #	14
16) Acetone	3.82	43	14859	9.037	ug/l	91
18) Methyl Acetate	4.34	43	6145	Below Cal	#	45
20) Methylene Chloride	4.55	84	11305	1.172	ug/l	95
25) 2-Butanone	6.85	43	5089	2.171	ug/l	89
29) Tetrahydrofuran	7.22	42	1444	0.909	ug/l #	50
31) Cyclohexane	7.67	56	17497	Below Cal	#	32
36) 1,1-Dichloropropene	7.67	75	66600	5.232	ug/l #	47
37) Ethyl Acetate	6.93	43	301	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	99360	6.799	ug/l #	15
43) Isopropyl Acetate	8.17	43	284435	26.681	ug/l	99
48) Methyl methacrylate	9.19	41	6779	1.316	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	1817	0.310	ug/l	94
53) t-1,3-Dichloropropene	10.39	75	62	1.249	ug/l	99
56) Ethyl methacrylate	10.22	69	3205	0.315	ug/l #	80
59) 2-Hexanone	10.76	43	18724	4.752	ug/l #	52
60) Dibromochloromethane	10.62	129	156	1.990	ug/l #	11
71) Bromoform	12.40	173	6488	4.406	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	348792	46.966	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	348792	147.740	ug/l #	12

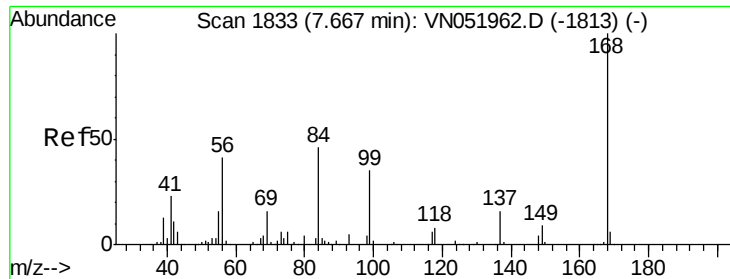
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampled :

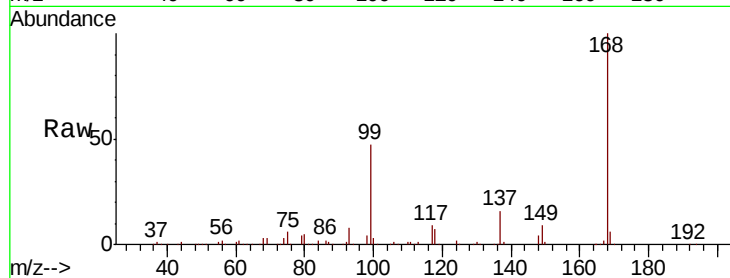
VB44949

Tot Ion:168 Resp: 1120555

Ion Ratio Lower Upper

168 100

99 46.9 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

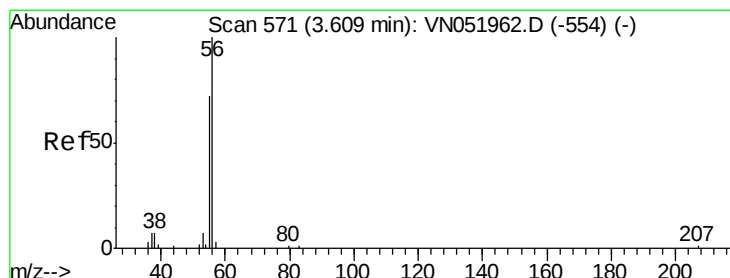
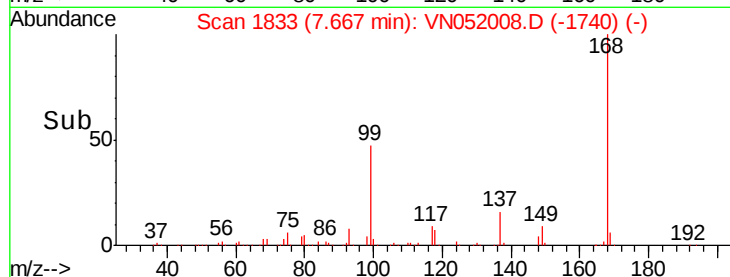
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 37.470 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052008.D

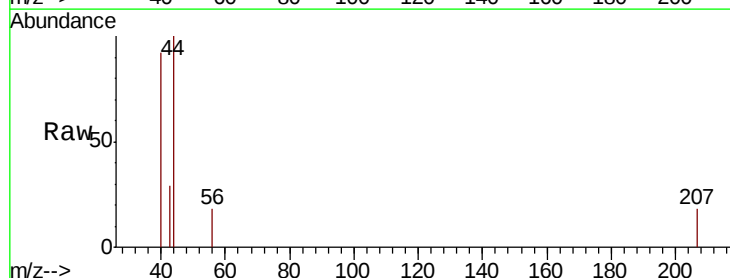
Acq: 25 Oct 2018 13:35

Tgt Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.61

200

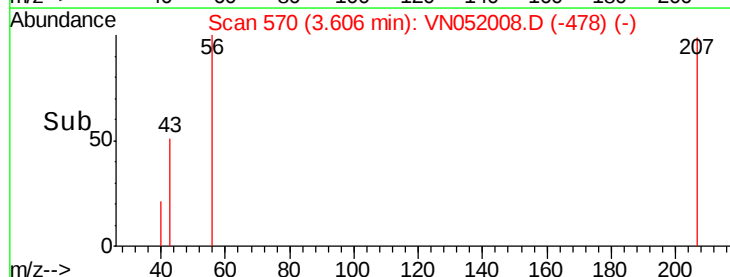
150

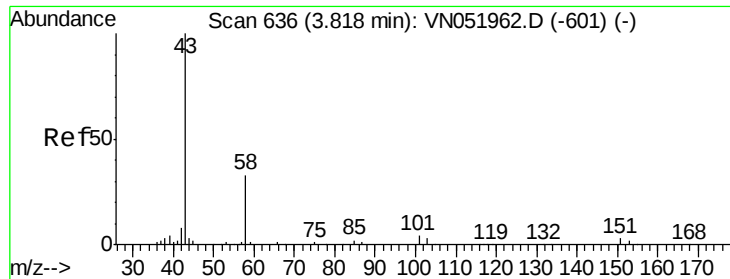
100

50

0

Time-->





#16

Acetone

Concen: 9.037 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampleId :

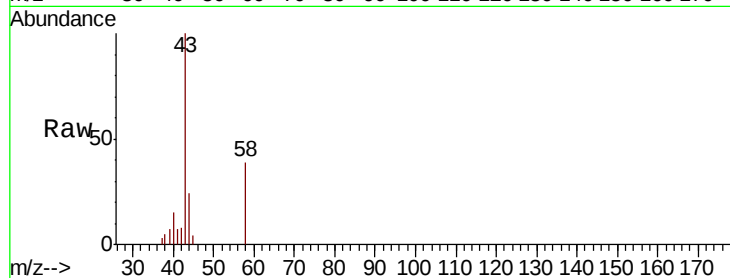
VB44949

Tot Ion: 43 Resp: 14859

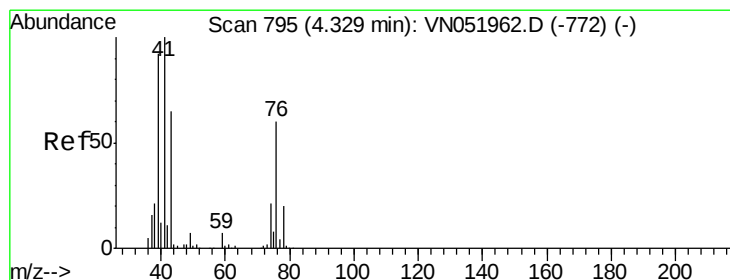
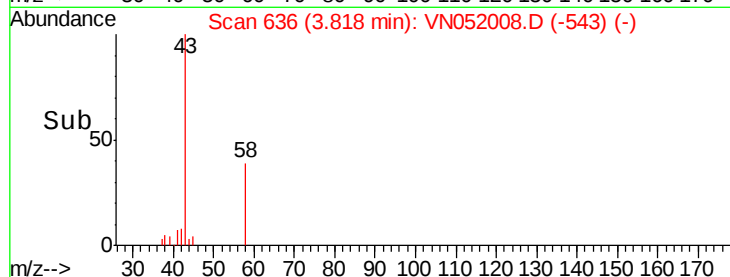
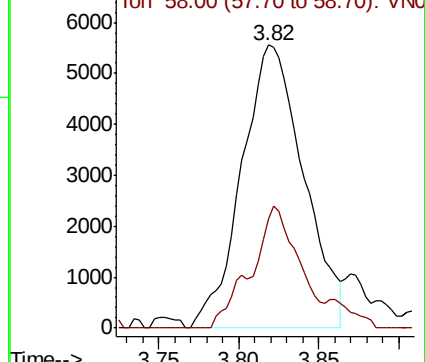
Ion Ratio Lower Upper

43 100

58 38.8 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-601) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 799

Delta R.T. 0.01 min

Lab File: VN052008.D

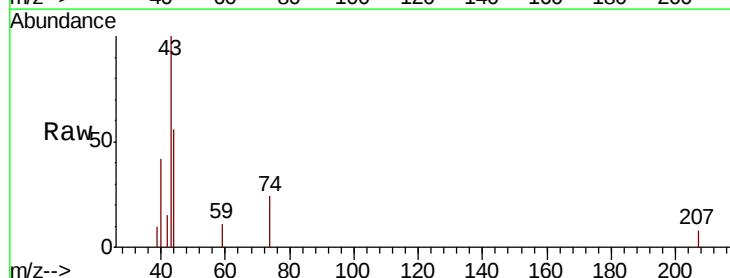
Acq: 25 Oct 2018 13:35

Tgt Ion: 43 Resp: 6145

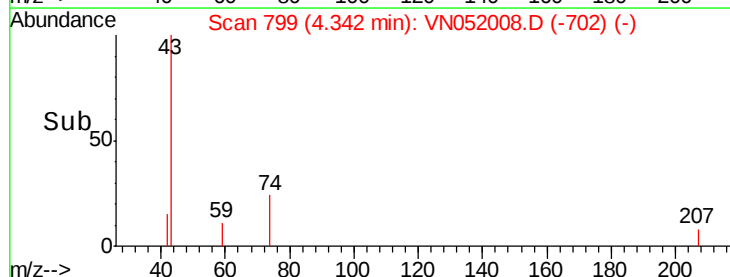
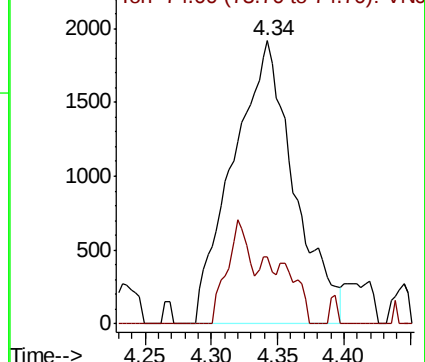
Ion Ratio Lower Upper

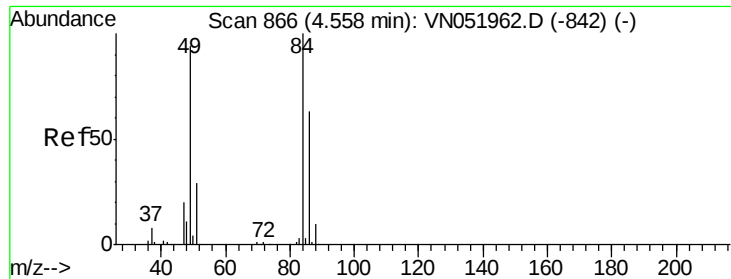
43 100

74 1.4 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-772) (-)

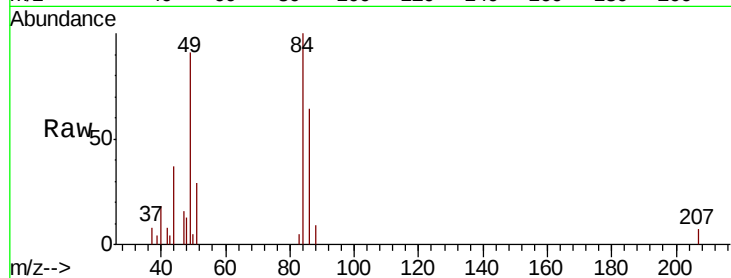




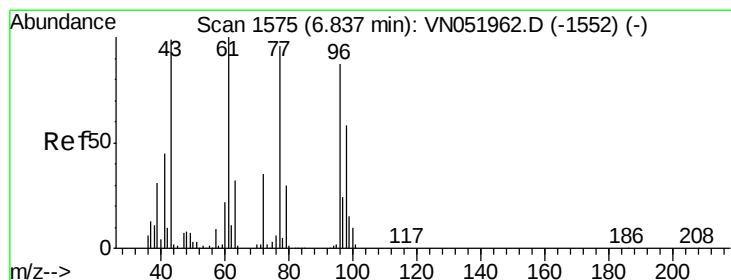
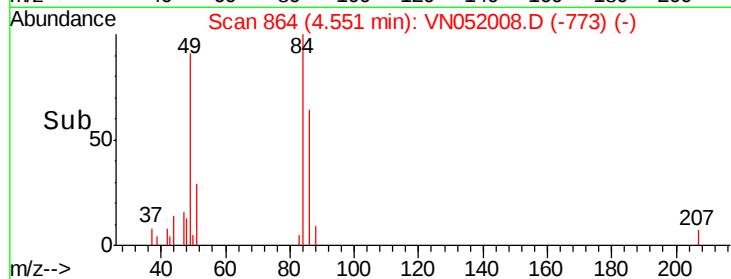
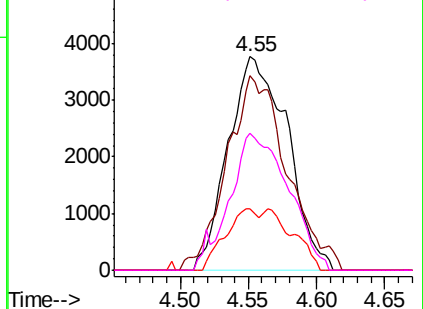
#20
Methvlene Chloride
Concen: 1.172 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.01 min
Lab File: VN052008.D
Acq: 25 Oct 2018 13:35

Instrument :
MSVOA_N
ClientSampleId :
VB44949

Tot Ion:	84	Resp:	11305
Ion	Ratio	Lower	Upper
84	100		
49	86.6	75.4	113.0
51	29.0	23.1	34.7
86	64.1	50.2	75.4

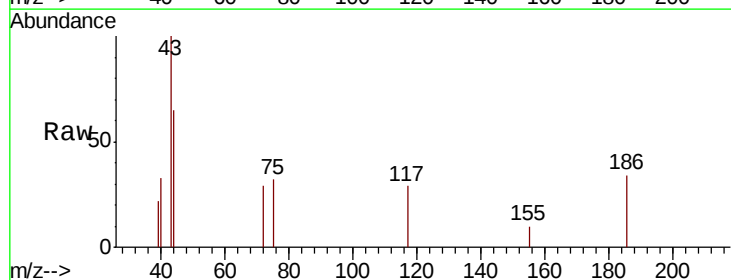


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

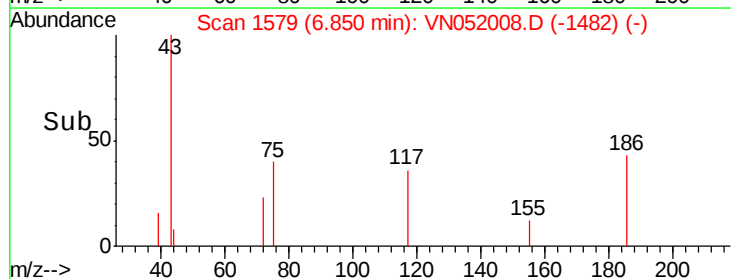
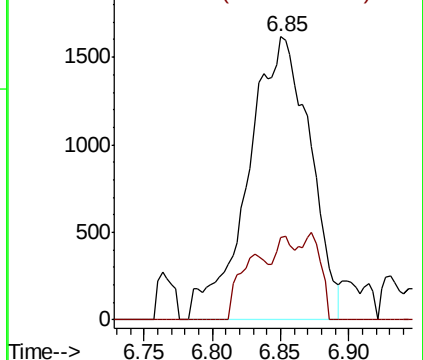


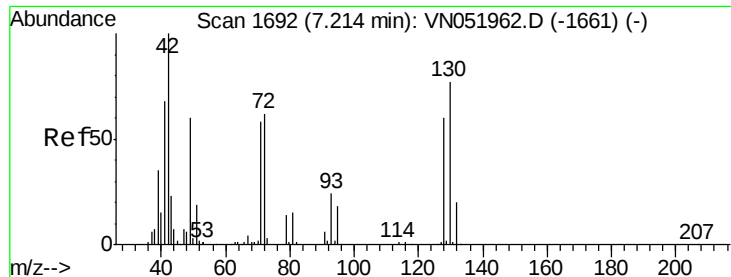
#25
2-Butanone
Concen: 2.171 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN052008.D
Acq: 25 Oct 2018 13:35

Tgt Ion:	43	Resp:	5089
Ion	Ratio	Lower	Upper
43	100		
72	29.3	28.5	42.7



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





#29

Tetrahydrofuran

Concen: 0.909 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampled :

VB44949

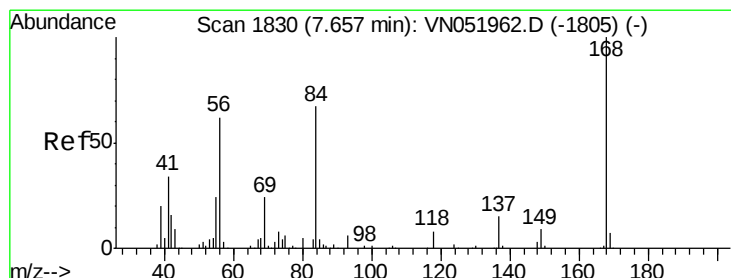
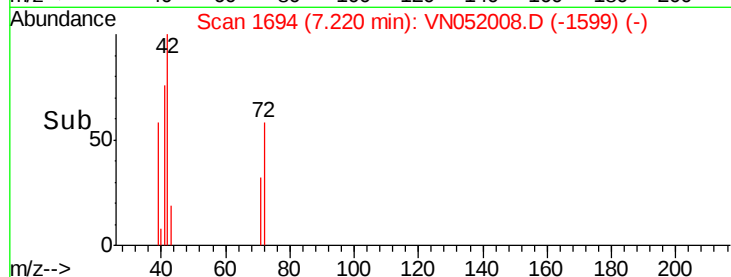
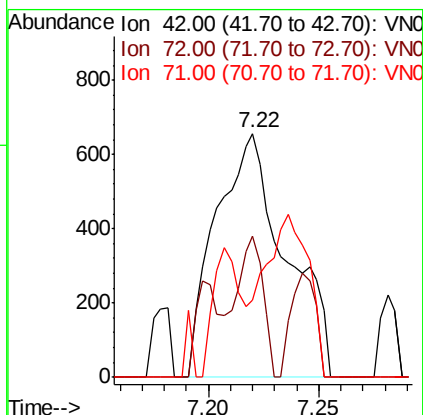
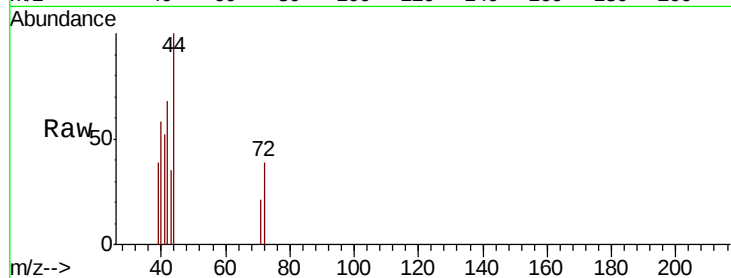
Tot Ion: 42 Resp: 1444

Ion Ratio Lower Upper

42 100

72 21.6 47.5 71.3#

71 20.6 45.4 68.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

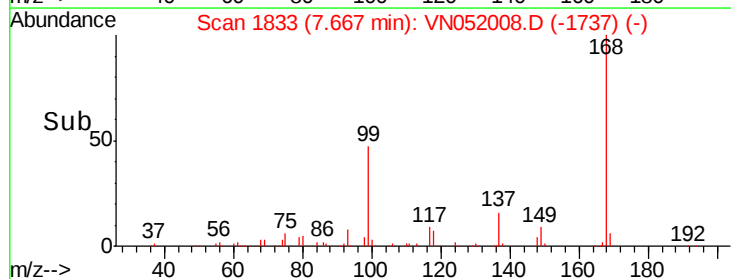
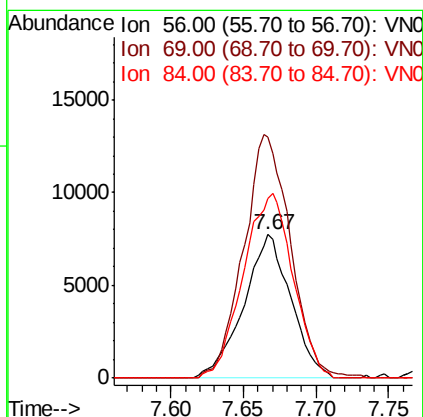
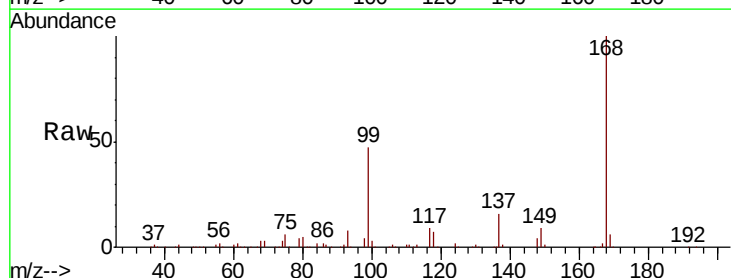
Tgt Ion: 56 Resp: 17497

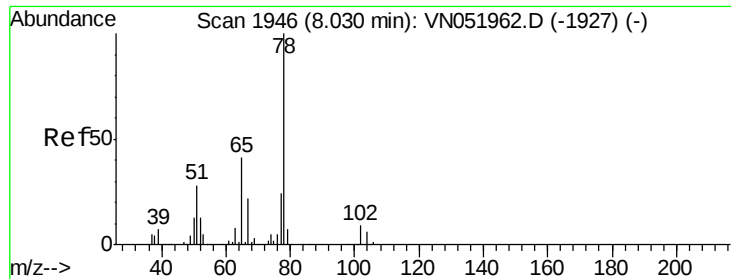
Ion Ratio Lower Upper

56 100

69 167.5 31.2 46.8#

84 124.7 86.3 129.5

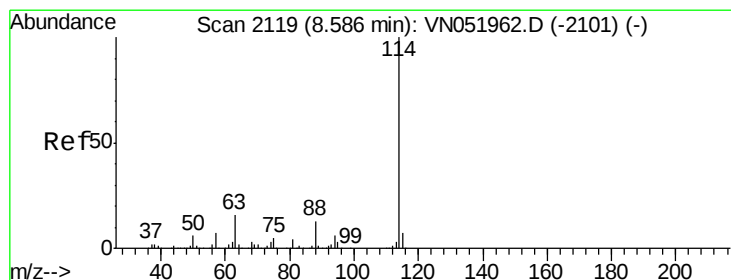
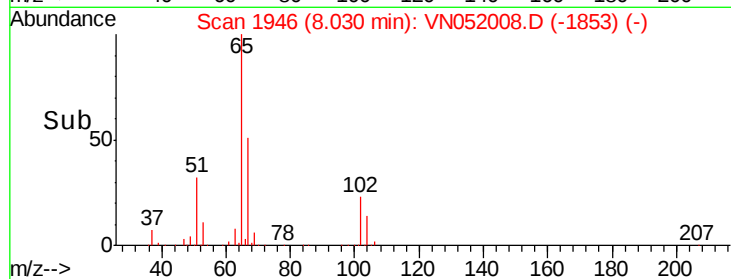
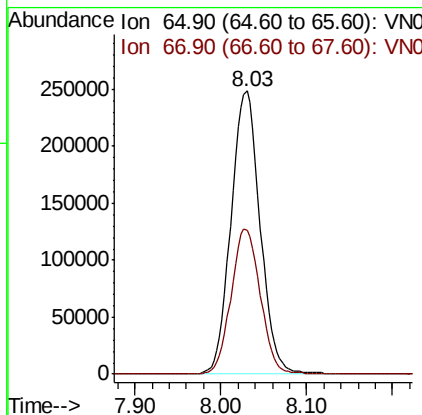
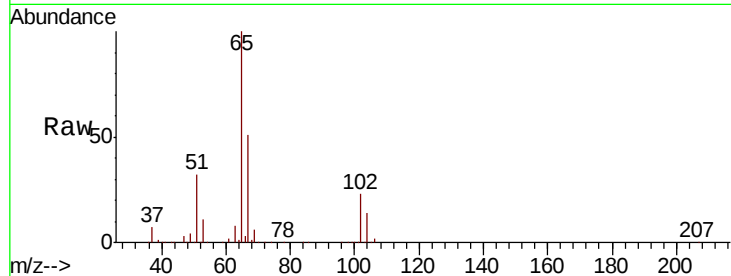




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052008.D
 Acq: 25 Oct 2018 13:35

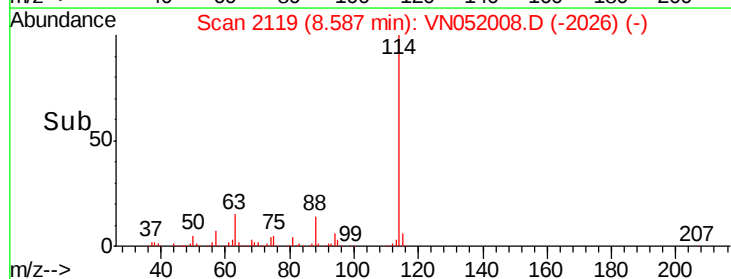
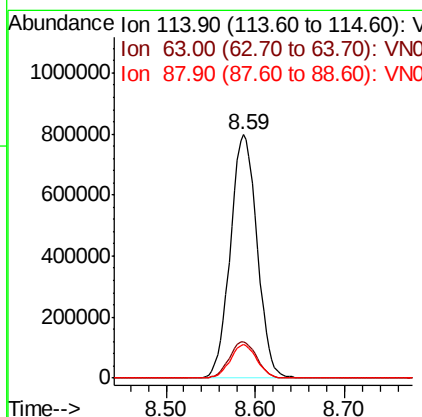
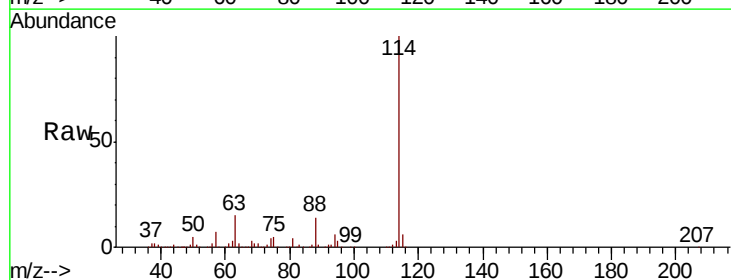
Instrument :
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 ClientSampled :
 VB44949

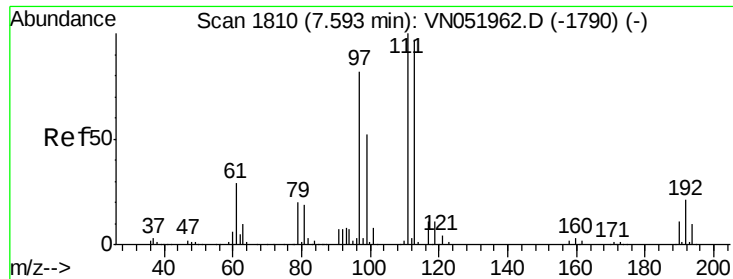
Tot Ion: 65 Resp: 583147
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052008.D
 Acq: 25 Oct 2018 13:35

Tgt Ion: 114 Resp: 1659437
 Ion Ratio Lower Upper
 114 100
 63 15.0 0.0 31.2
 88 13.6 0.0 27.0

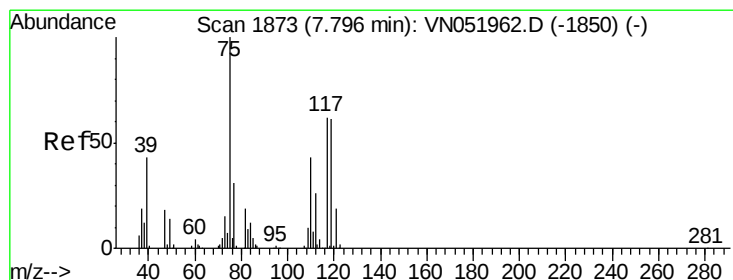
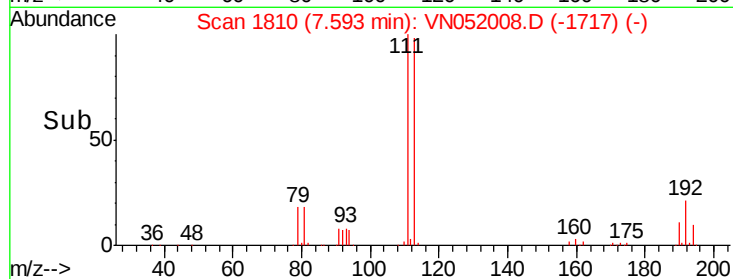
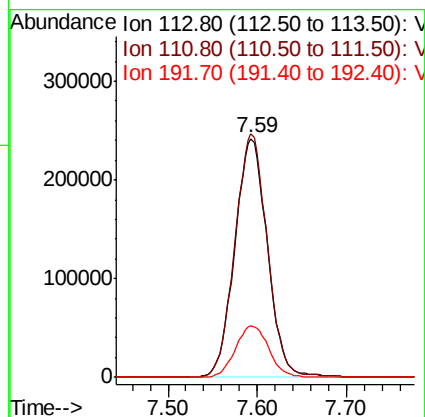
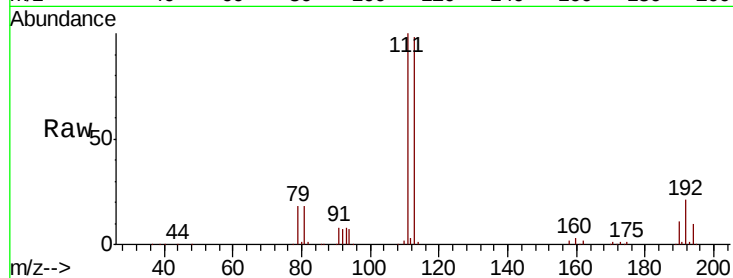




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052008.D
 Acq: 25 Oct 2018 13:35

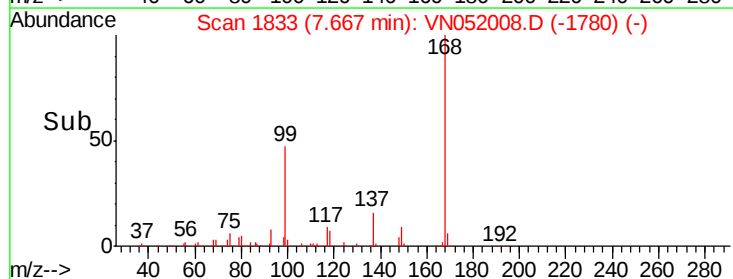
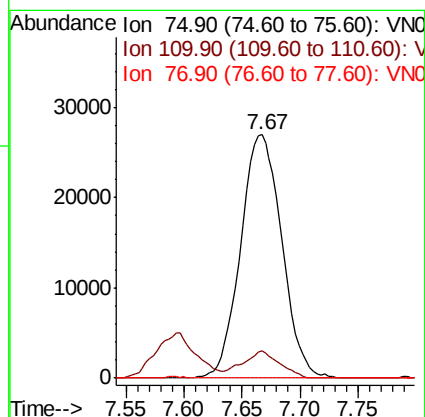
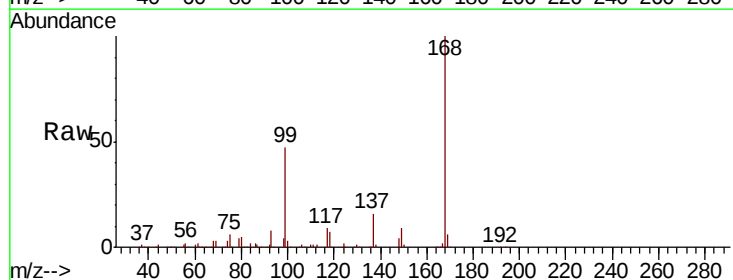
Instrument :
 MSVOA_N
 ClientSampleId :
 VB44949

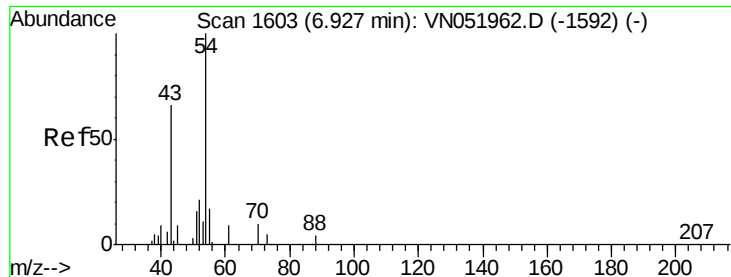
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.7	121.1
192	22.0	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 5.232 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052008.D
 Acq: 25 Oct 2018 13:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	20.9	62.8#
77	0.0	24.9	37.3#

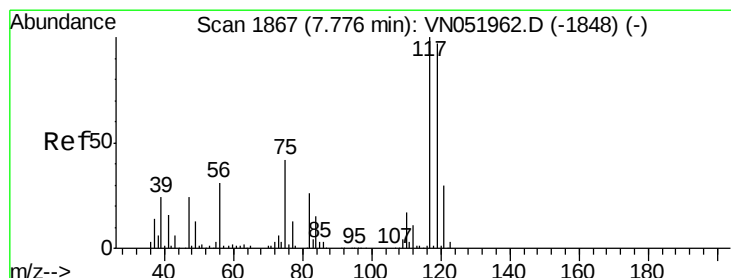
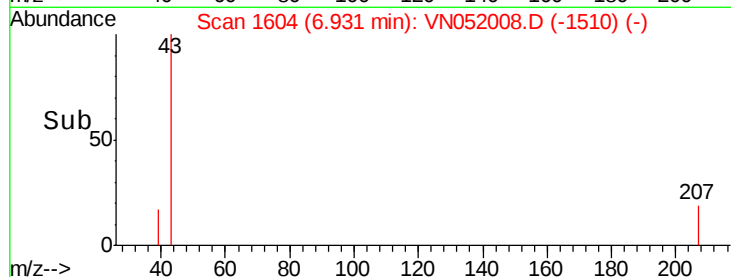
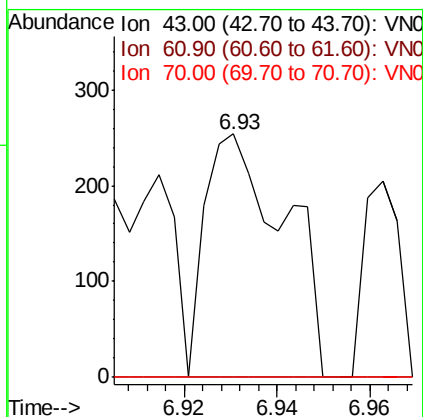
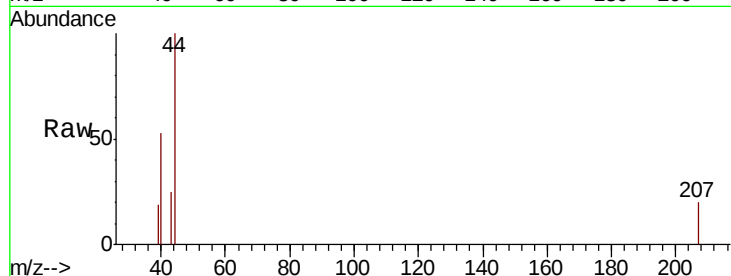




#37
Ethyl Acetate
Concen: Below Cal
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052008.D
Acq: 25 Oct 2018 13:35

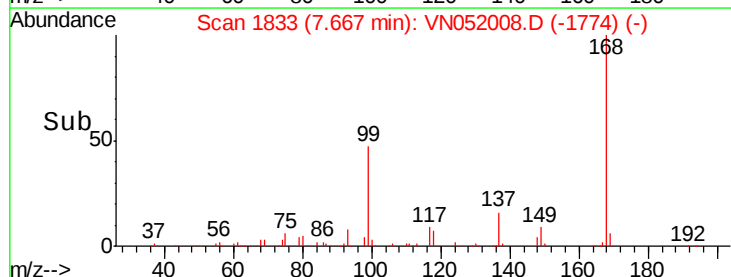
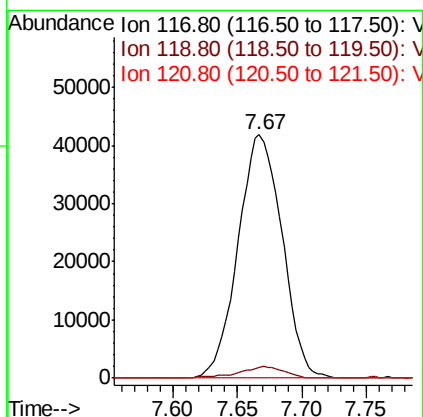
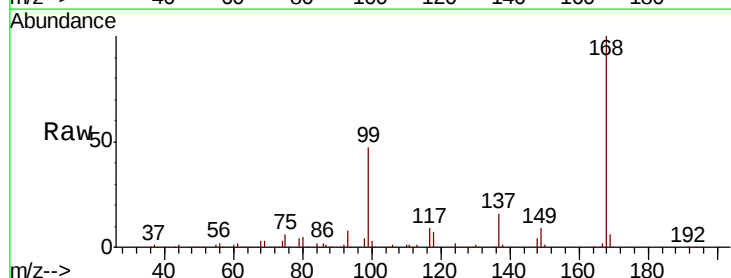
Instrument :
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ClientSampleId :
VB44949

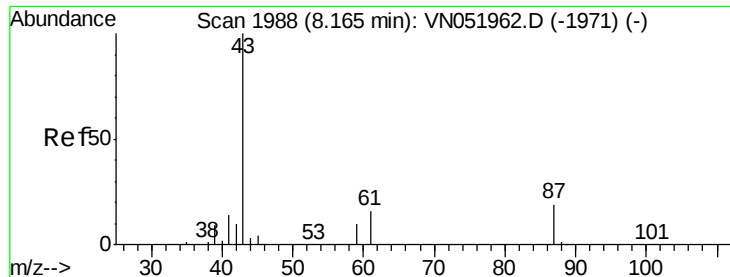
Tot Ion: 43 Resp: 301
Ion Ratio Lower Upper
43 100
61 0.0 13.5 20.3#
70 0.0 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 6.799 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN052008.D
Acq: 25 Oct 2018 13:35

Tgt Ion: 117 Resp: 99360
Ion Ratio Lower Upper
117 100
119 4.6 77.4 116.0#
121 0.0 24.2 36.4#





#43

Isopropyl Acetate

Concen: 26.681 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampleId :

VB44949

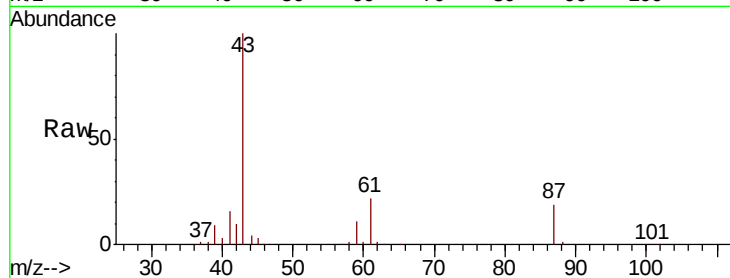
Tot Ion: 43 Resp: 284435

Ion Ratio Lower Upper

43 100

61 21.1 17.2 25.8

87 18.2 15.2 22.8



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN051962.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN051962.D (-1971) (-)

8.17

150000

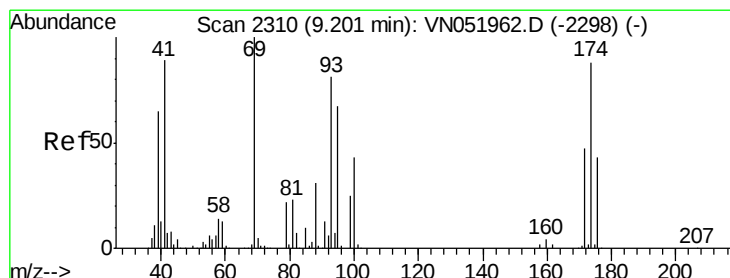
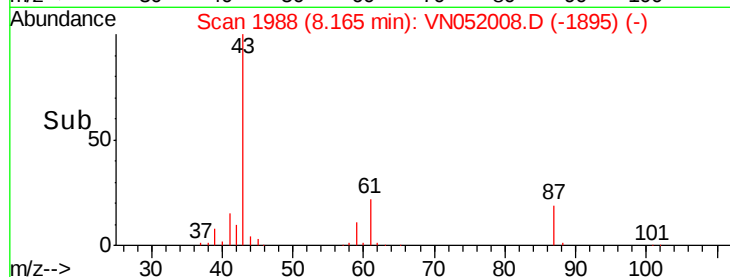
100000

50000

0

Time-->

8.05 8.10 8.15 8.20 8.25



#48

Methyl methacrylate

Concen: 1.316 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

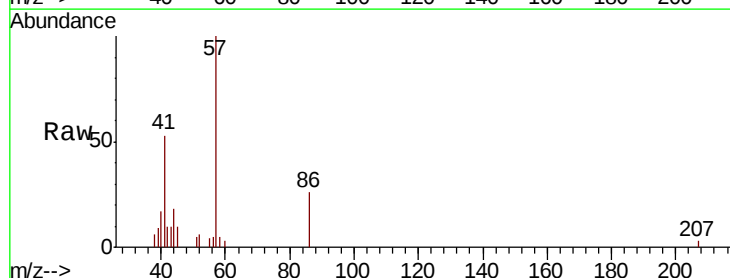
Tgt Ion: 41 Resp: 6779

Ion Ratio Lower Upper

41 100

69 0.0 92.2 138.4#

39 0.0 60.2 90.4#



Abundance Ion 41.00 (40.70 to 41.70): VN051962.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051962.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051962.D (-2298) (-)

9.19

15000

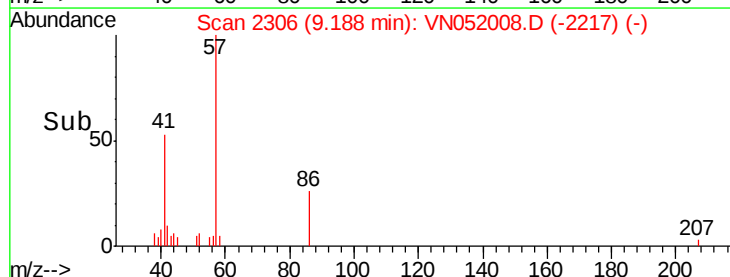
10000

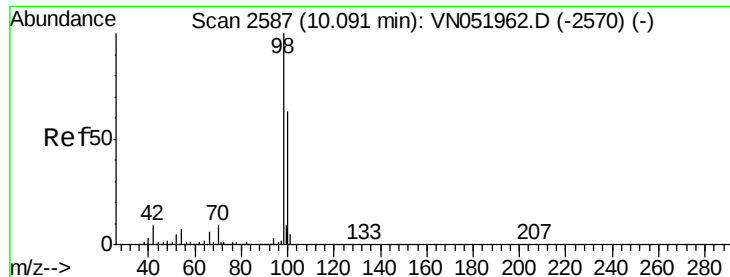
5000

0

Time-->

9.10 9.15 9.20 9.25





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampled :

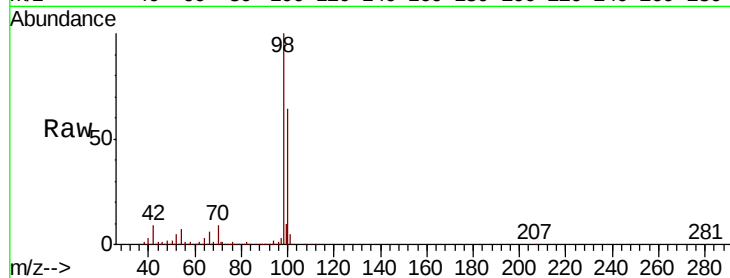
VB44949

Tot Ion: 98 Resp: 2248695

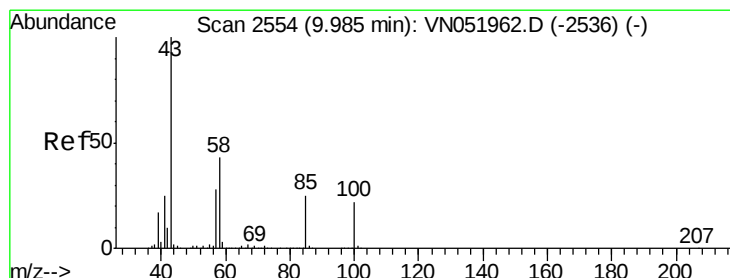
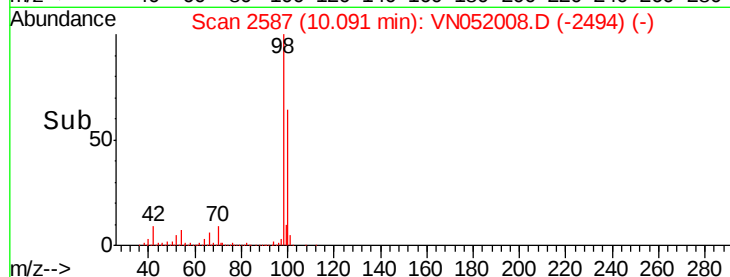
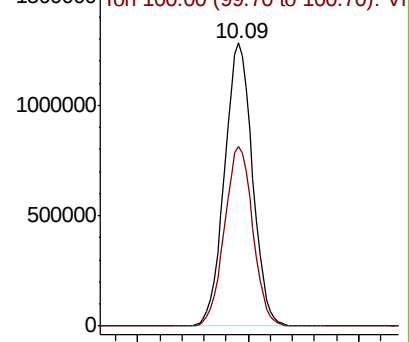
Ion Ratio Lower Upper

98 100

100 64.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN051962.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.310 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN052008.D

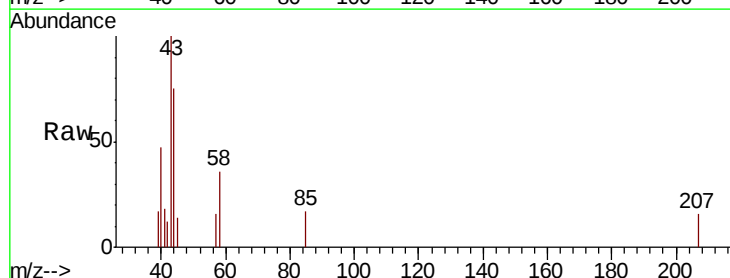
Acq: 25 Oct 2018 13:35

Tgt Ion: 43 Resp: 1817

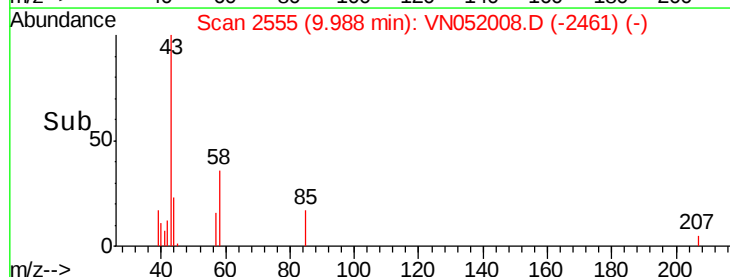
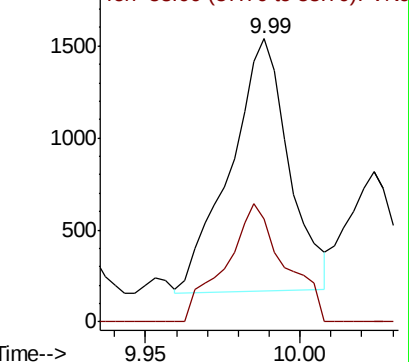
Ion Ratio Lower Upper

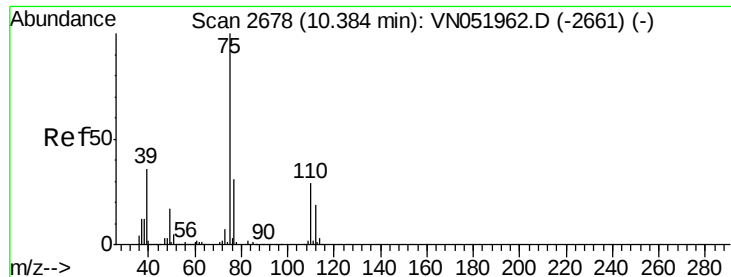
43 100

58 47.3 34.8 52.2



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-2536) (-)





#53

t-1,3-Dichloropropene

Concen: 1.249 ug/l

RT: 10.39 min Scan# 2680

Delta R.T. 0.01 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampled :

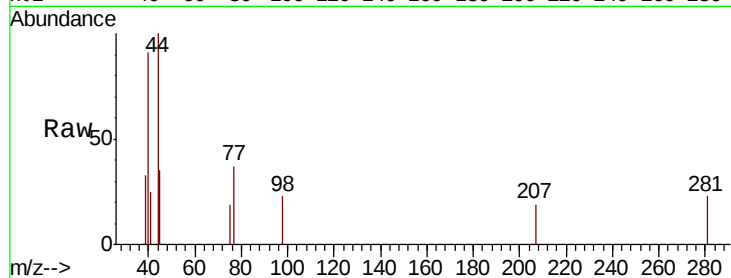
VB44949

Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

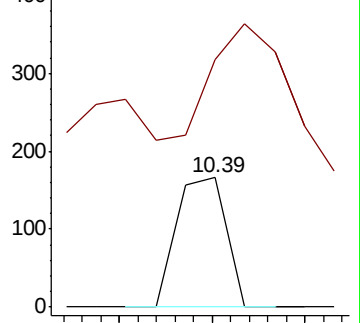
75 100

77 30.7 25.0 37.4

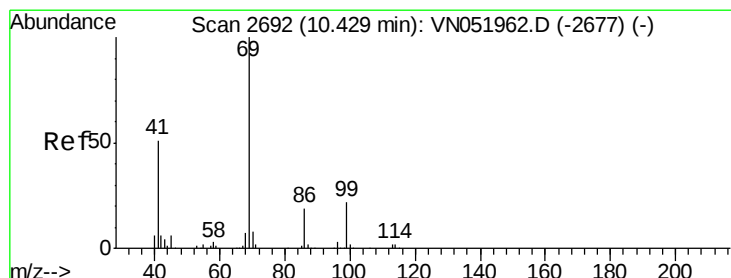
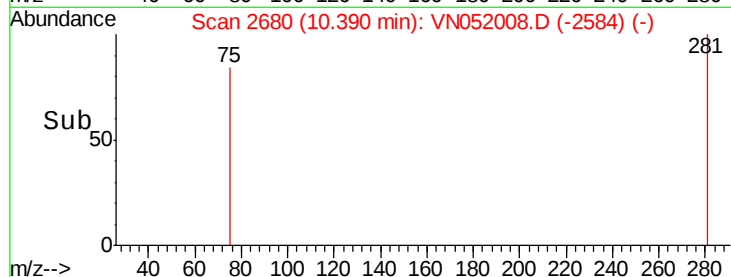


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->



#56

Ethyl methacrylate

Concen: 0.315 ug/l

RT: 10.22 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

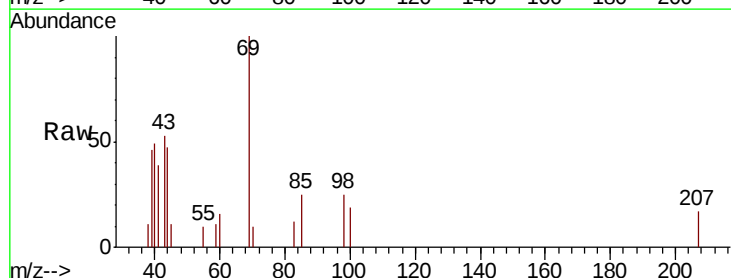
Tgt Ion: 69 Resp: 3205

Ion Ratio Lower Upper

69 100

41 33.5 40.7 61.1#

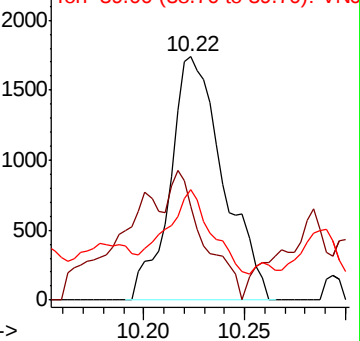
39 29.3 29.3 43.9



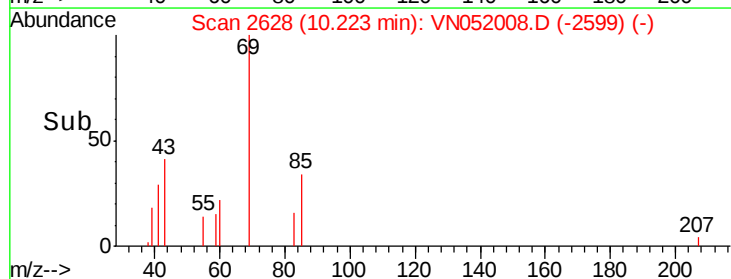
Abundance Ion 69.00 (68.70 to 69.70): VN0

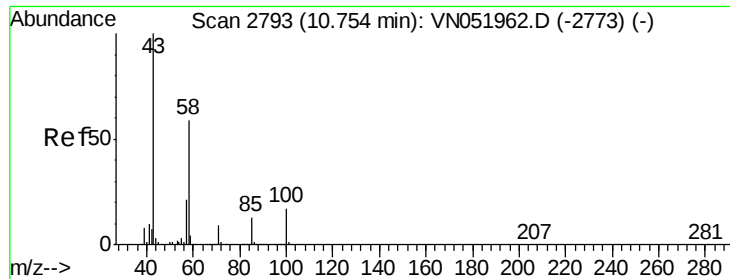
Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->





#59

2-Hexanone

Concen: 4.752 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampleId :

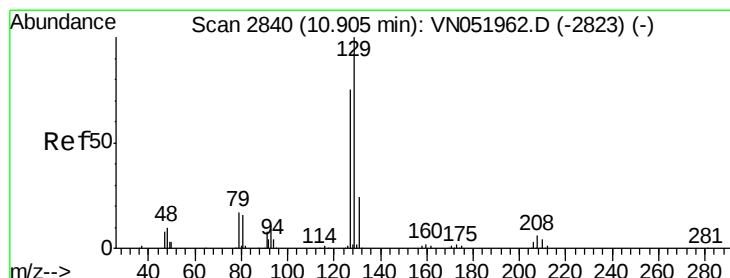
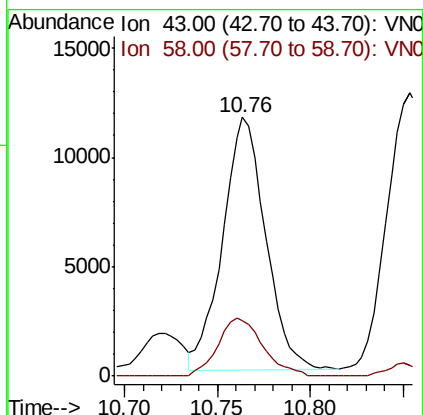
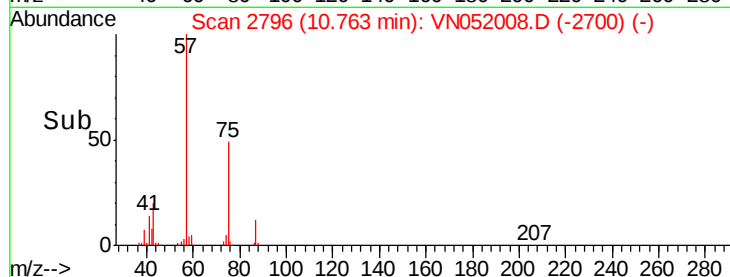
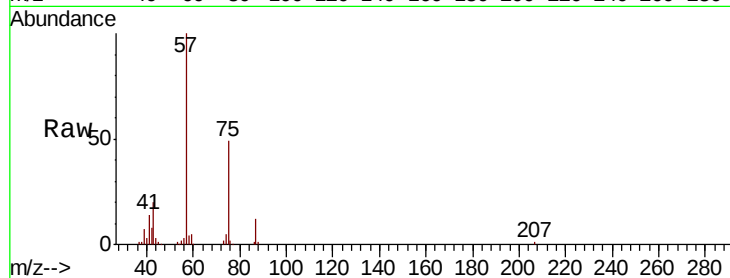
VB44949

Tot Ion: 43 Resp: 18724

Ion Ratio Lower Upper

43 100

58 23.7 29.9 89.8#



#60

Dibromochloromethane

Concen: 1.990 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.28 min

Lab File: VN052008.D

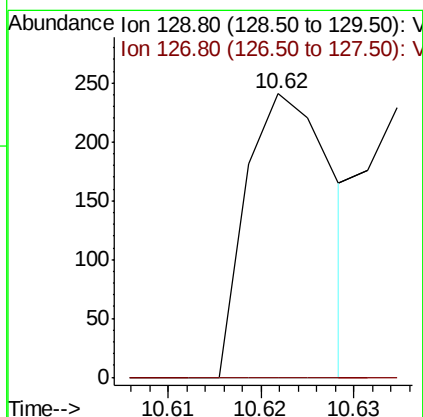
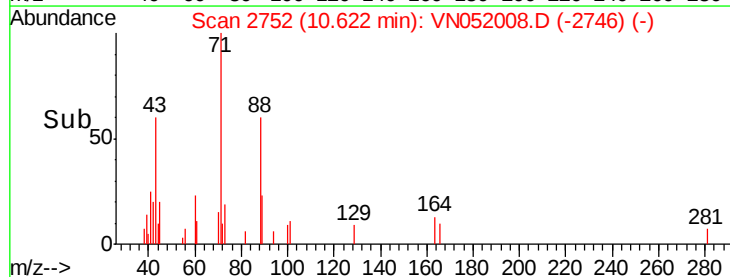
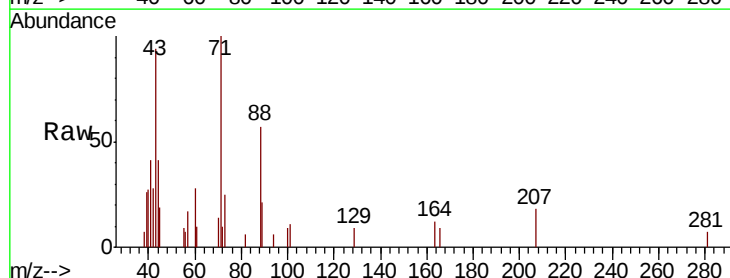
Acq: 25 Oct 2018 13:35

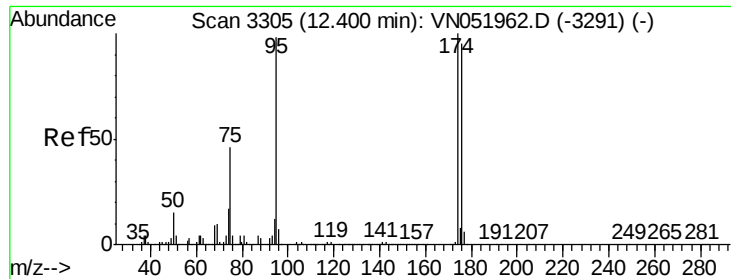
Tgt Ion: 129 Resp: 156

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampleId :

VB44949

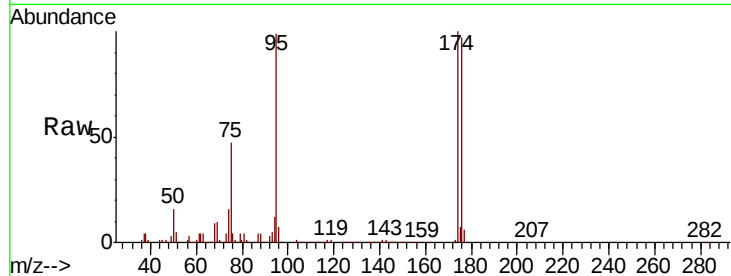
Tot Ion: 95 Resp: 718646

Ion Ratio Lower Upper

95 100

174 102.7 0.0 206.0

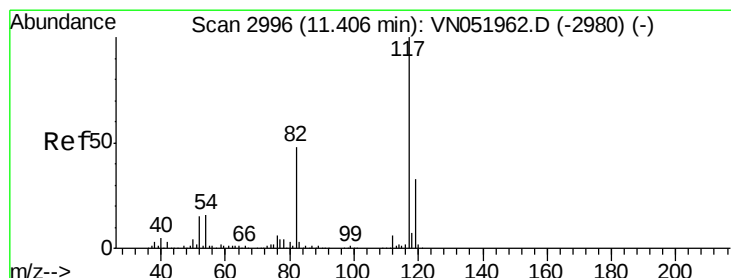
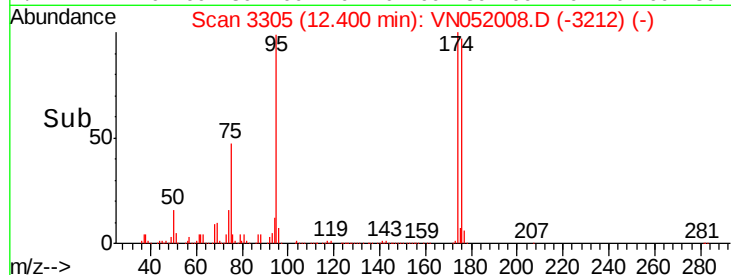
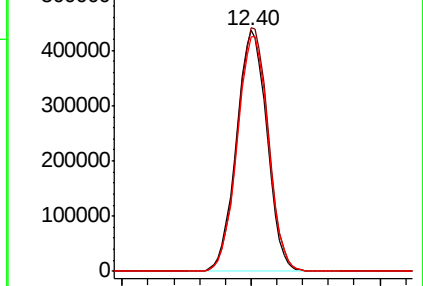
176 99.0 0.0 198.0



Abundance Ion 94.90 (94.60 to 95.60): VN051962.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051962.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051962.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

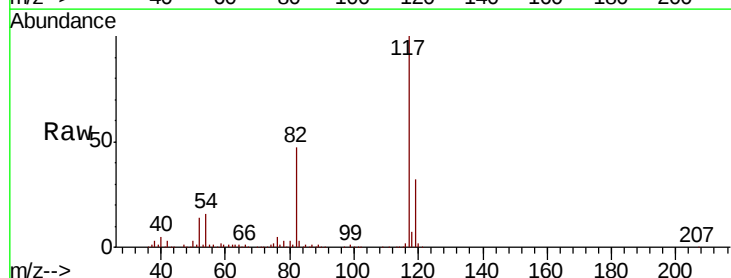
Tgt Ion: 117 Resp: 1569469

Ion Ratio Lower Upper

117 100

82 47.3 38.1 57.1

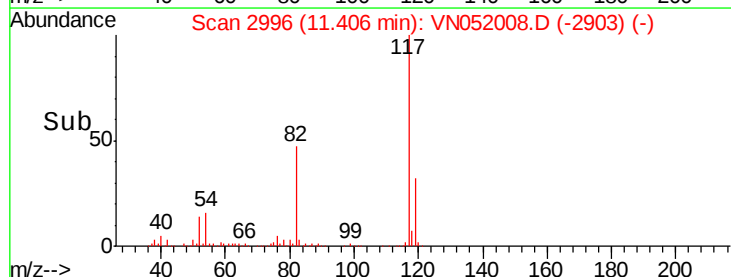
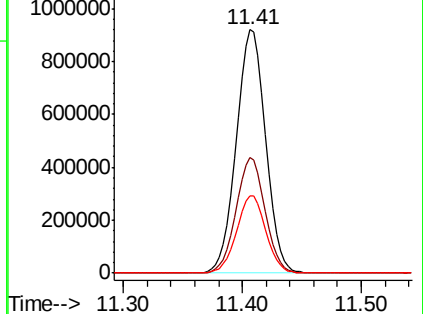
119 32.0 26.4 39.6

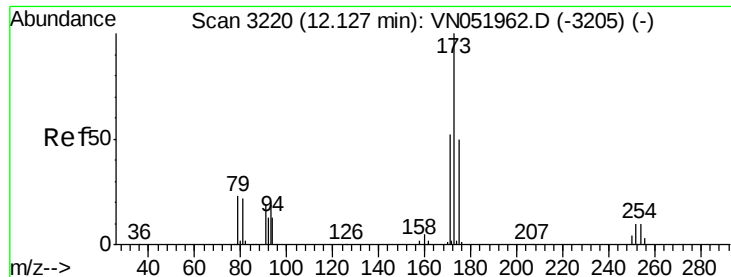


Abundance Ion 116.90 (116.60 to 117.60): VN051962.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051962.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051962.D (-2980) (-)





#71

Bromoform

Concen: 4.406 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052008.D

Acq: 25 Oct 2018 13:35

Instrument :

MSVOA_N

ClientSampleId :

VB44949

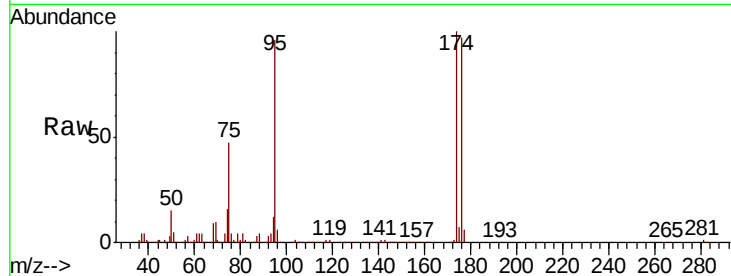
Tot Ion:173 Resp: 6488

Ion Ratio Lower Upper

173 100

175 740.6 24.6 74.0#

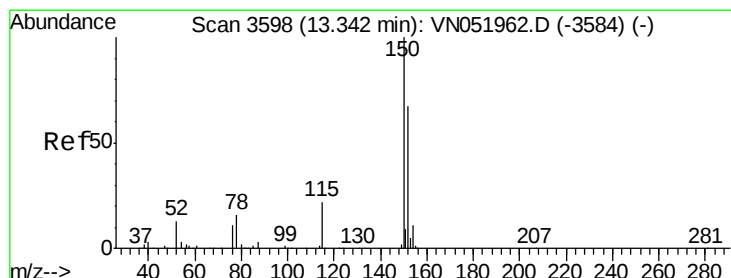
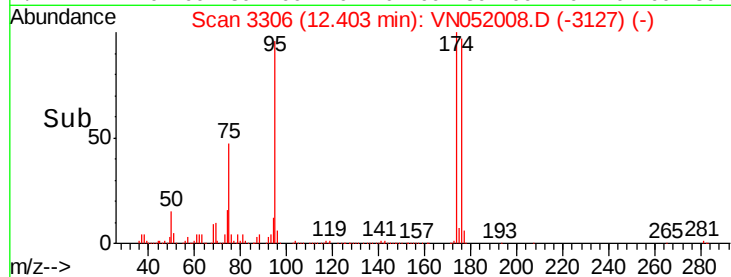
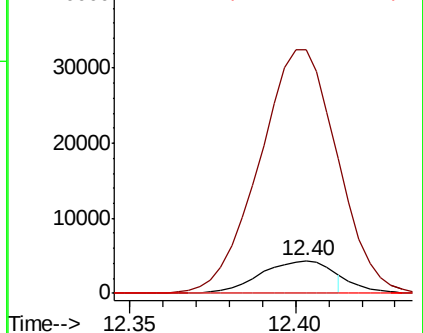
254 0.0 0.1 0.1#



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: VN052008.D

Acq: 25 Oct 2018 13:35

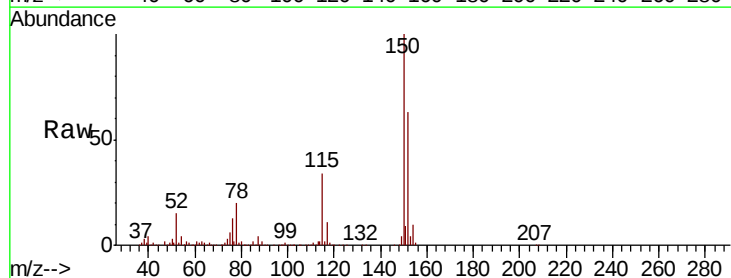
Tgt Ion:152 Resp: 718957

Ion Ratio Lower Upper

152 100

115 53.6 25.8 77.3

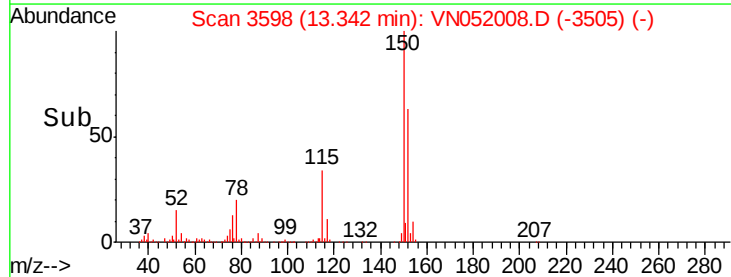
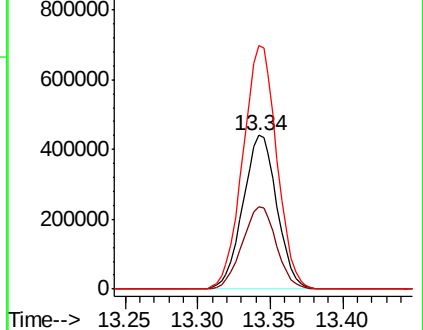
150 157.9 0.0 344.4

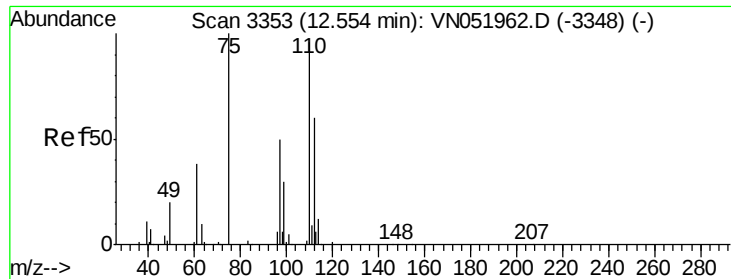


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

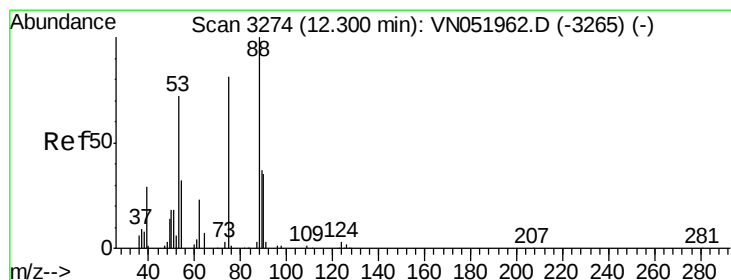
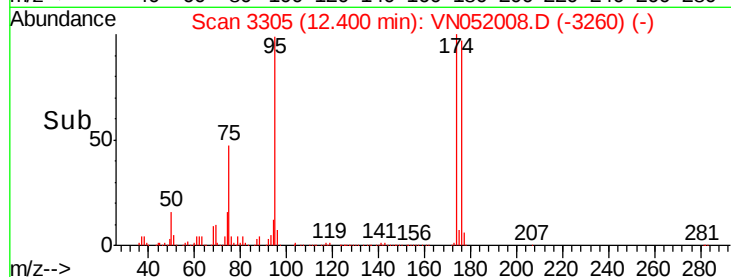
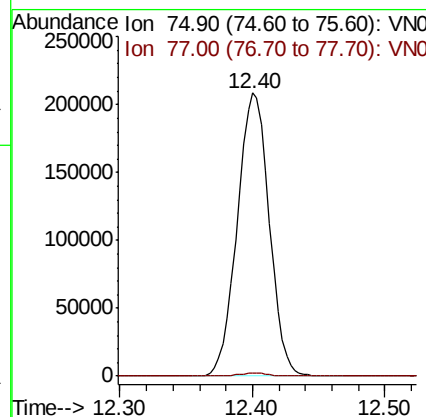
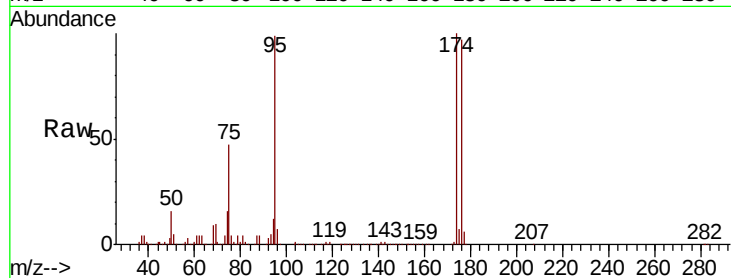




#76
 1,2,3-Trichloropropane
 Concen: 46.966 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052008.D
 Acq: 25 Oct 2018 13:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VB44949

Tot Ion: 75 Resp: 348792
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 147.740 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052008.D
 Acq: 25 Oct 2018 13:35

Tgt Ion: 75 Resp: 348792
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.5 110.3#
 89 0.0 41.6 62.4#

