

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092018\
 Data File : VN051349.D
 Acq On : 20 Sep 2018 19:20
 Operator : MD\SY
 Sample : PB113045TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113045TB

Quant Time: Sep 21 06:44:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 03:27:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	790612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1167223	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1004685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	391669	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	443901	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
35) Dibromofluoromethane	7.59	113	432772	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	
50) Toluene-d8	10.09	98	1600403	44.13	ug/l	0.00
Spiked Amount			Recovery	=	88.26%	
62) 4-Bromofluorobenzene	12.40	95	438410	37.16	ug/l	0.00
Spiked Amount			Recovery	=	74.32%	

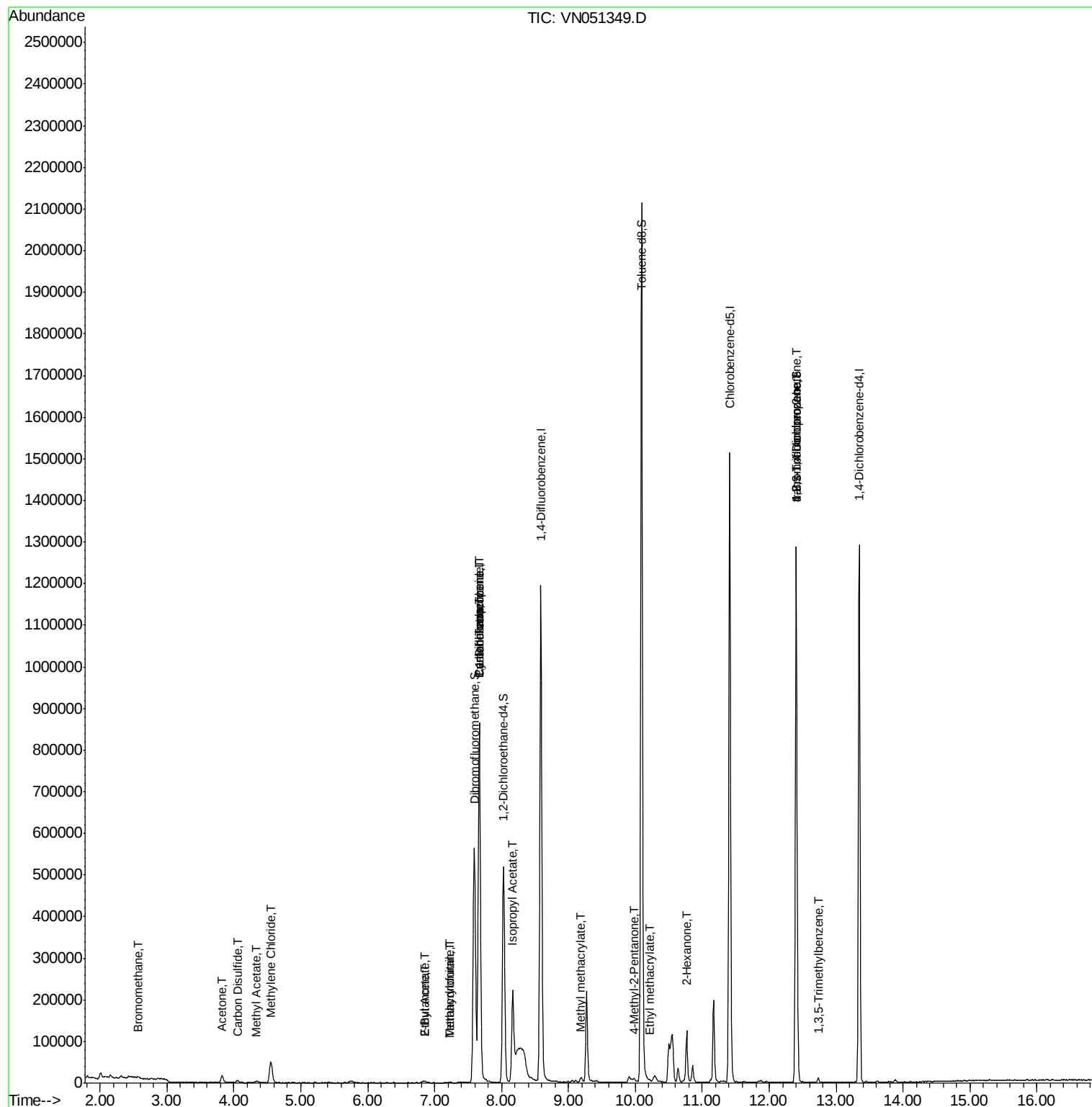
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1556	0.24	ug/l	# 78
16) Acetone	3.82	43	28136	15.98	ug/l	# 98
17) Carbon Disulfide	4.05	76	7840	0.35	ug/l	# 97
18) Methyl Acetate	4.33	43	6156	1.02	ug/l	# 90
20) Methylene Chloride	4.55	84	39083	4.44	ug/l	# 94
25) 2-Butanone	6.86	43	5174	2.11	ug/l	# 94
29) Tetrahydrofuran	7.21	42	686	0.44	ug/l	# 84
31) Cyclohexane	7.67	56	12110	0.88	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	45930	3.85	ug/l	# 48
37) Ethyl Acetate	6.86	43	5174	0.88	ug/l	# 64
38) Carbon Tetrachloride	7.67	117	65429	5.07	ug/l	# 16
41) Methacrylonitrile	7.23	41	767	0.25	ug/l	# 25
43) Isopropyl Acetate	8.17	43	280869	27.13	ug/l	# 95
48) Methyl methacrylate	9.18	41	6866	1.30	ug/l	# 17
51) 4-Methyl-2-Pentanone	9.99	43	3360	0.60	ug/l	# 84
56) Ethyl methacrylate	10.22	69	2607	0.30	ug/l	# 72
59) 2-Hexanone	10.77	43	19999	5.33	ug/l	# 48
76) 1,2,3-Trichloropropane	12.40	75	201730	35.67	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	5115	0.22	ug/l	# 97
81) trans-1,4-Dichloro-2-buten	12.40	75	201730	123.48	ug/l	# 14

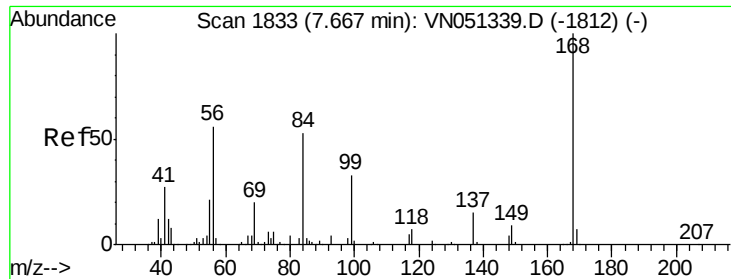
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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PB113045TB

Quant Time: Sep 21 06:44:17 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 21 03:27:45 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

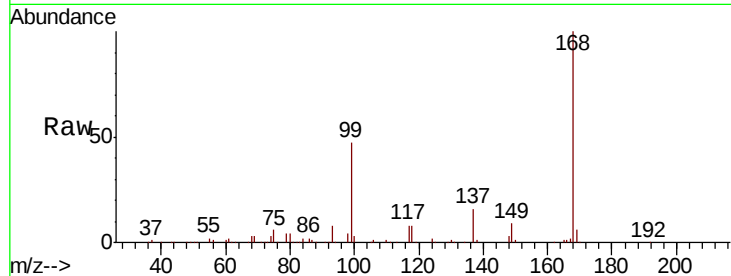
PB113045TB

Tot Ion:168 Resp: 790612

Ion Ratio Lower Upper

168 100

99 46.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051339.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051339.D (-1812) (-)

7.67

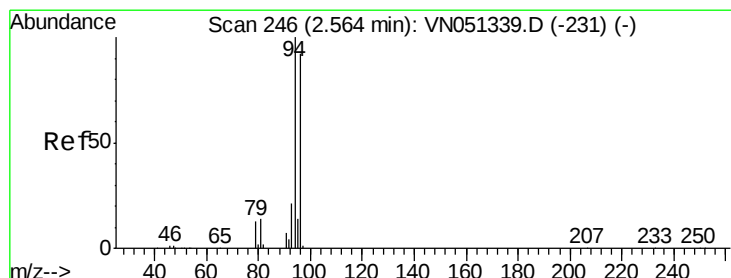
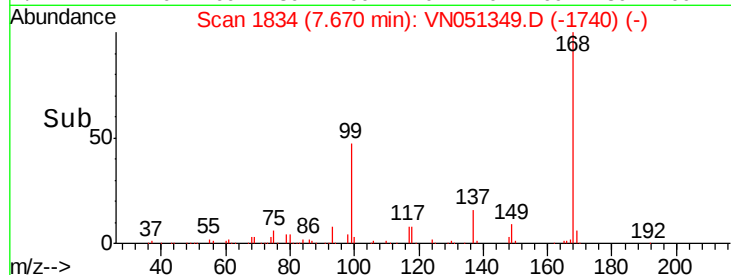
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.24 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051349.D

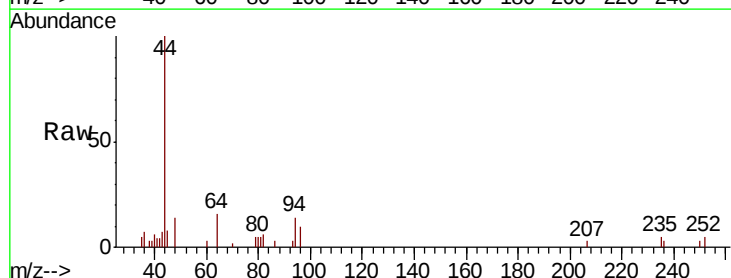
Acq: 20 Sep 2018 19:20

Tgt Ion: 94 Resp: 1556

Ion Ratio Lower Upper

94 100

96 71.5 73.8 110.8#



Abundance Ion 93.90 (93.60 to 94.60): VN051339.D (-231) (-)

Ion 95.90 (95.60 to 96.60): VN051339.D (-231) (-)

2.57

800

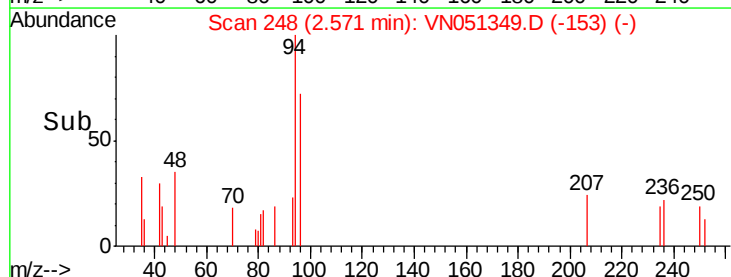
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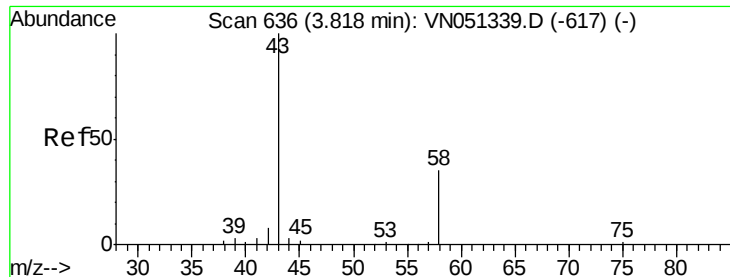
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200

0

Time-->





#16

Acetone

Concen: 15.98 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

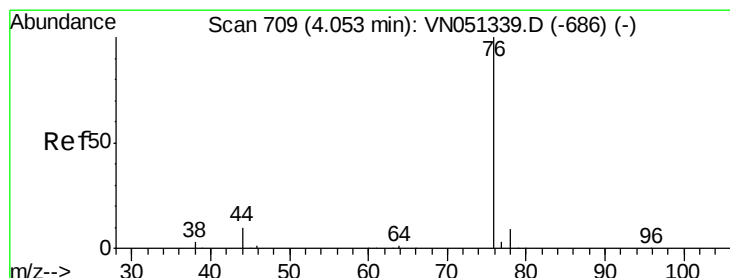
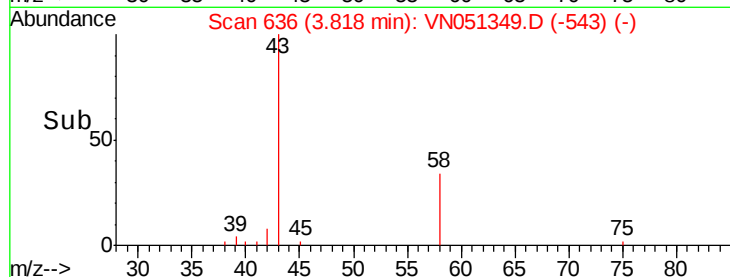
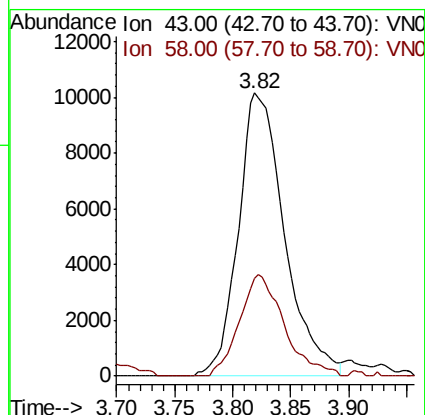
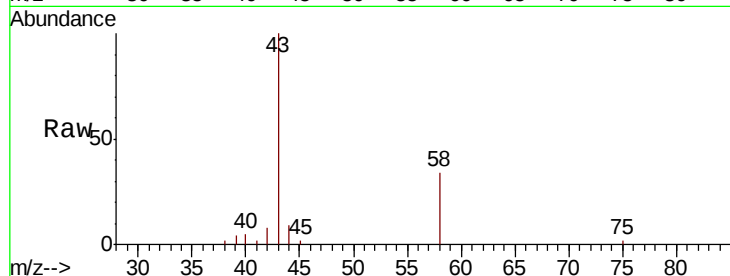
PB113045TB

Tot Ion: 43 Resp: 28136

Ion Ratio Lower Upper

43 100

58 34.4 28.3 42.5



#17

Carbon Disulfide

Concen: 0.35 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051349.D

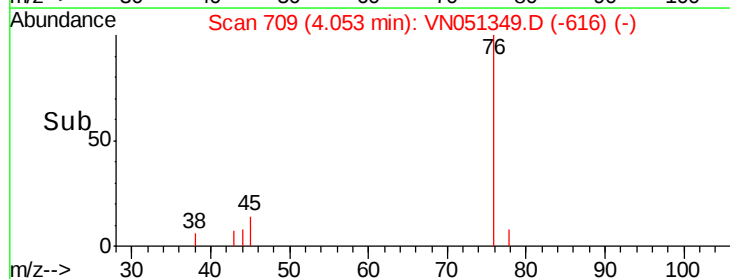
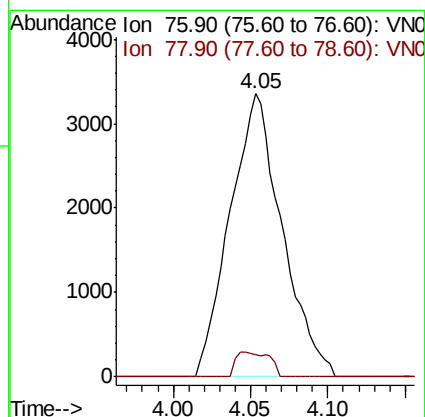
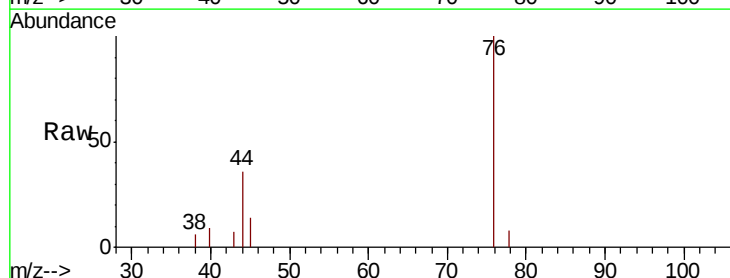
Acq: 20 Sep 2018 19:20

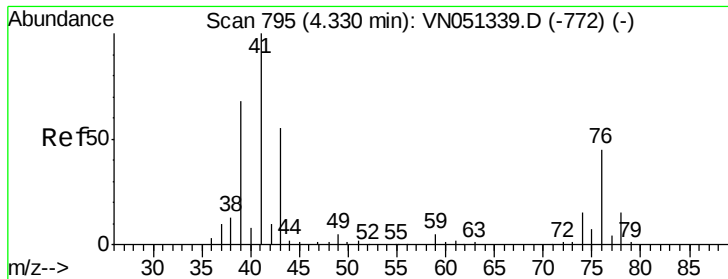
Tgt Ion: 76 Resp: 7840

Ion Ratio Lower Upper

76 100

78 7.7 7.0 10.6

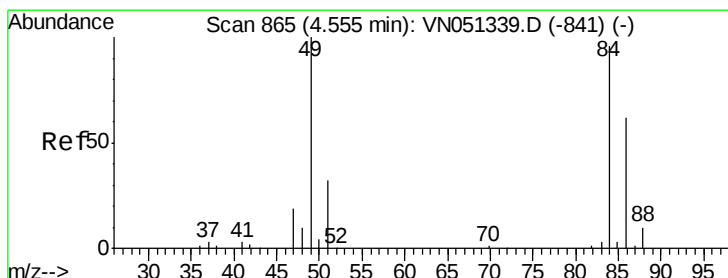
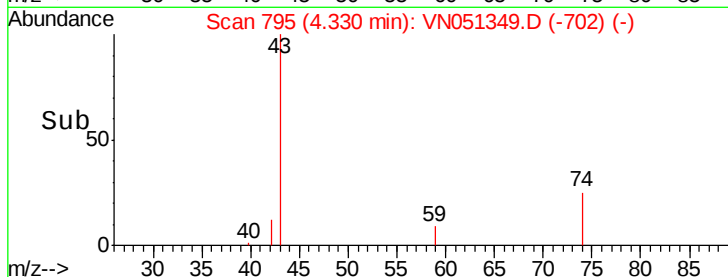
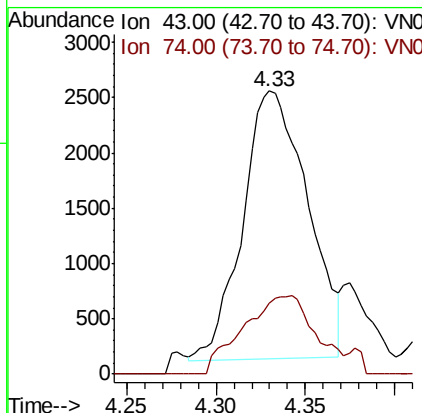
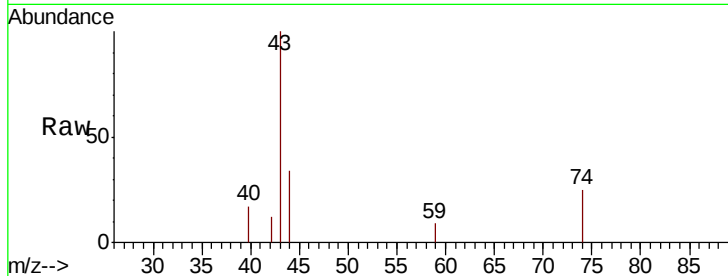




#18
Methvl Acetate
Concen: 1.02 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051349.D
Acq: 20 Sep 2018 19:20

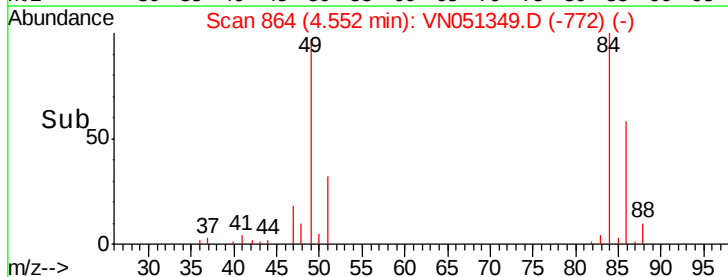
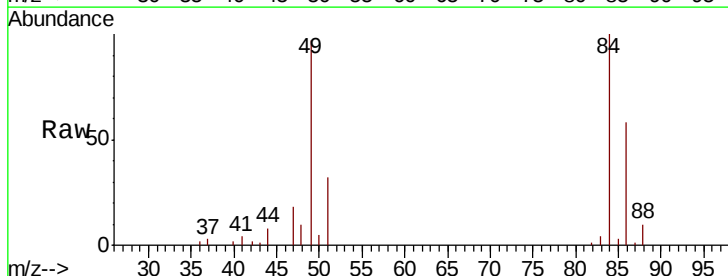
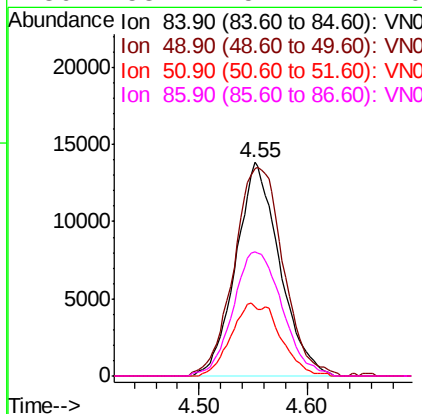
Instrument :
MSVOA_N
ClientSampleId :
PB113045TB

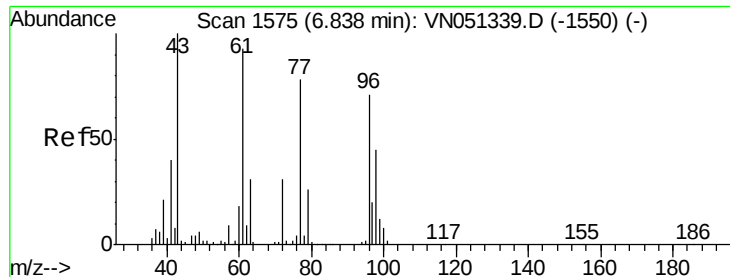
Tot Ion: 43 Resp: 6156
Ion Ratio Lower Upper
43 100
74 32.5 21.7 32.5



#20
Methylene Chloride
Concen: 4.44 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051349.D
Acq: 20 Sep 2018 19:20

Tgt Ion: 84 Resp: 39083
Ion Ratio Lower Upper
84 100
49 96.8 83.2 124.8
51 32.3 26.4 39.6
86 58.1 51.4 77.0

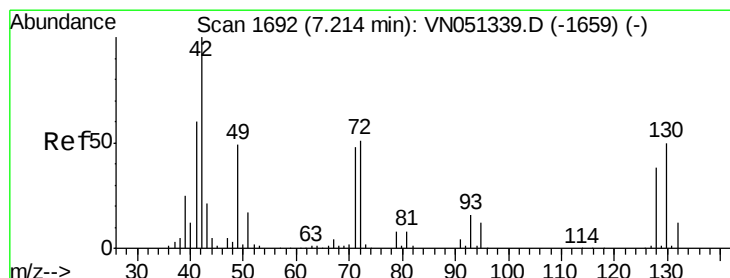
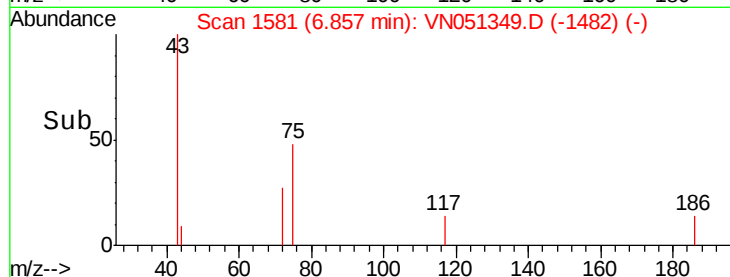
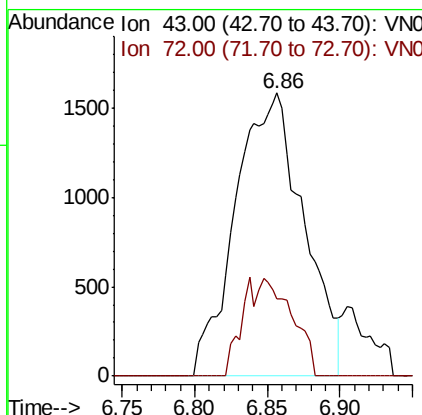
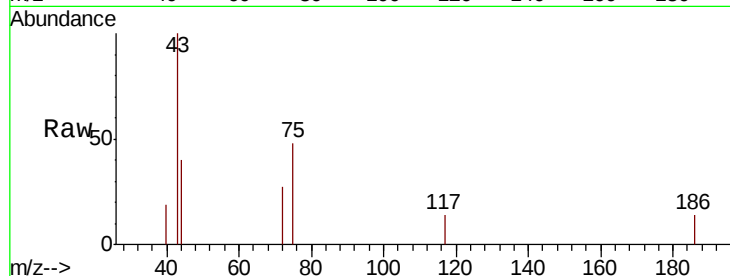




#25
2-Butanone
Concen: 2.11 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051349.D
Acq: 20 Sep 2018 19:20

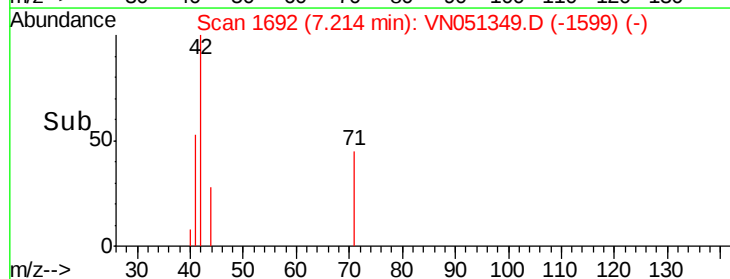
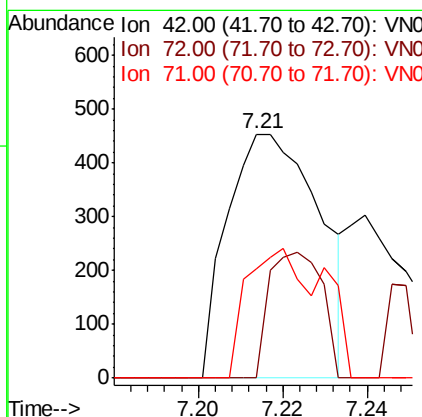
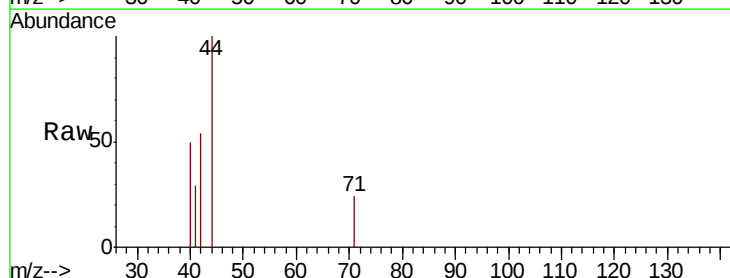
Instrument :
MSVOA_N
ClientSampled :
PB113045TB

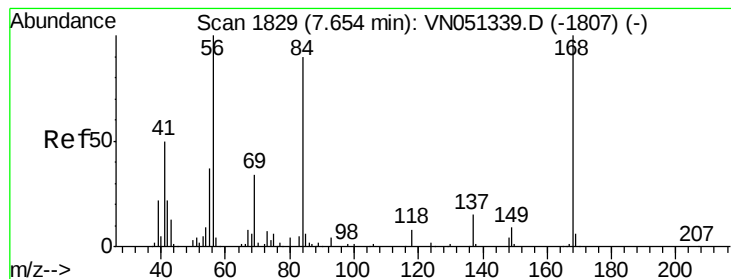
Tot Ion: 43 Resp: 5174
Ion Ratio Lower Upper
43 100
72 27.4 24.7 37.1



#29
Tetrahydrofuran
Concen: 0.44 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051349.D
Acq: 20 Sep 2018 19:20

Tgt Ion: 42 Resp: 686
Ion Ratio Lower Upper
42 100
72 29.4 39.0 58.4#
71 44.0 36.5 54.7





#31

Cyclohexane

Concen: 0.88 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB113045TB

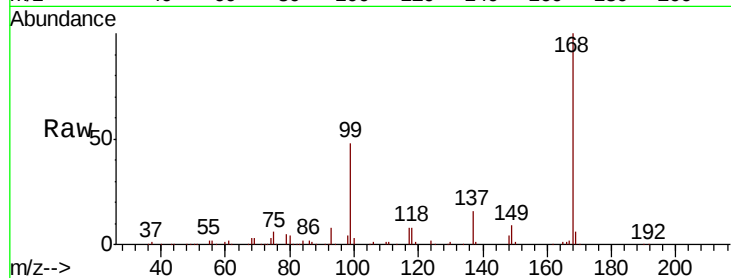
Tot Ion: 56 Resp: 12110

Ion Ratio Lower Upper

56 100

69 213.8 27.3 40.9#

84 144.2 72.2 108.2#

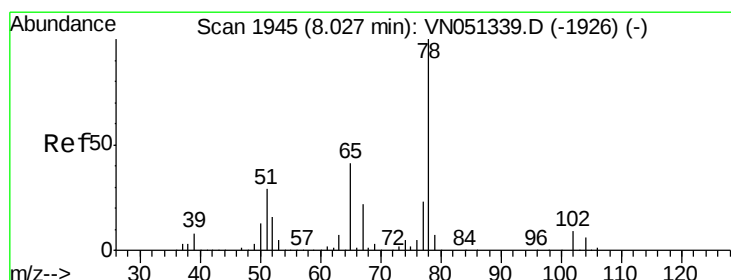
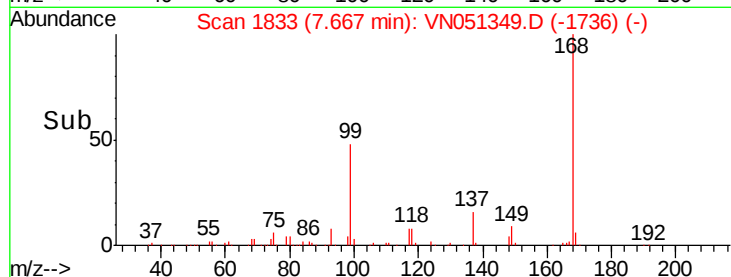
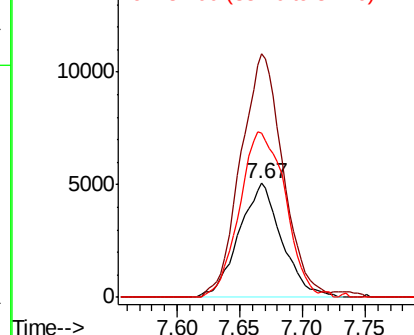


Abundance

Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 51.80 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051349.D

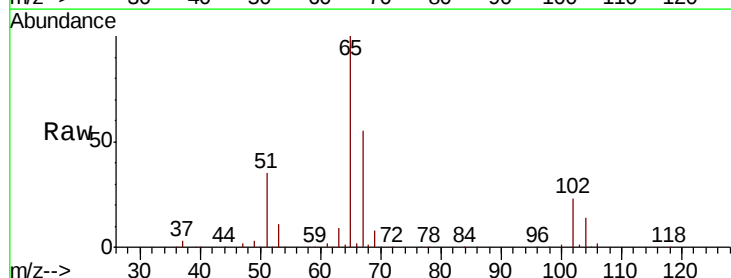
Acq: 20 Sep 2018 19:20

Tgt Ion: 65 Resp: 443901

Ion Ratio Lower Upper

65 100

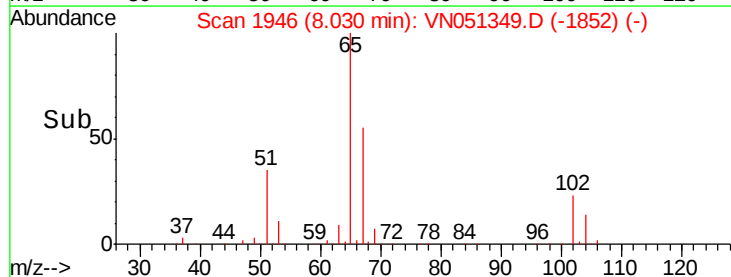
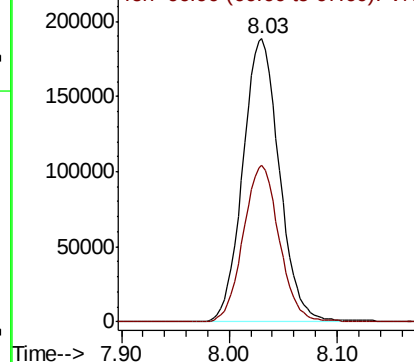
67 54.5 0.0 108.8

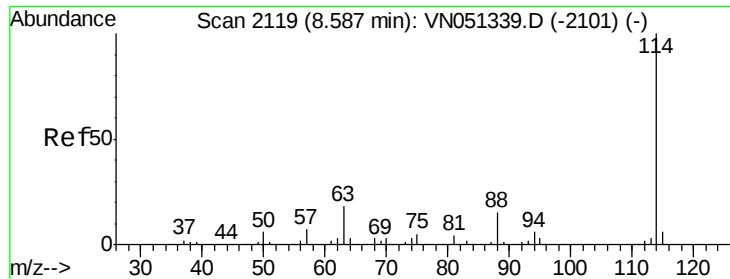


Abundance

Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC

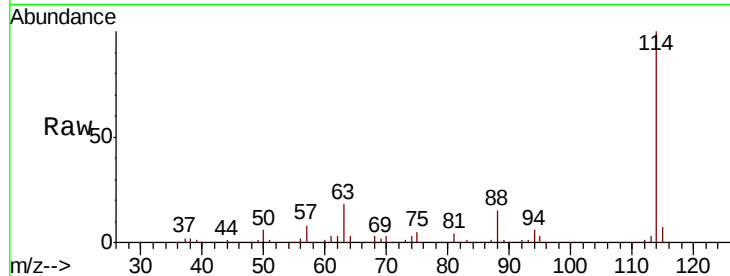




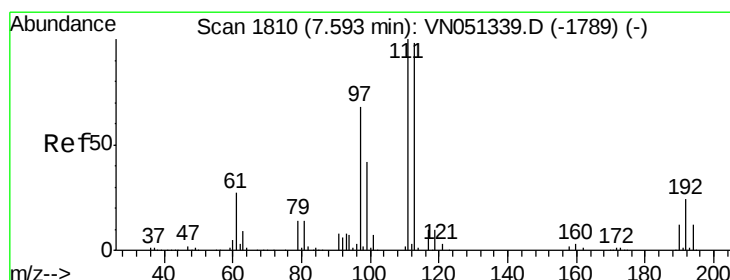
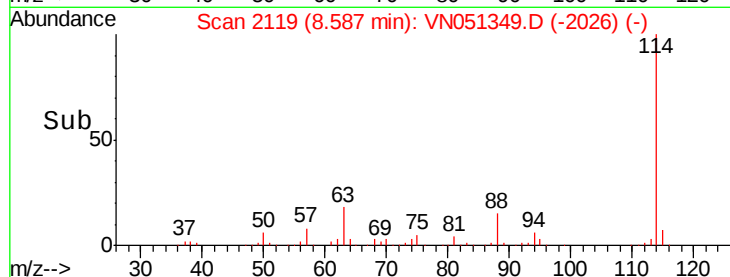
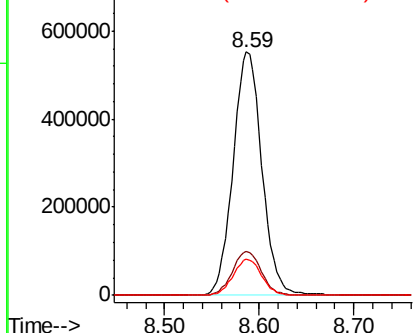
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051349.D
 Acq: 20 Sep 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113045TB

Tot Ion:114 Resp: 1167223
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 36.6
 88 14.7 0.0 29.8

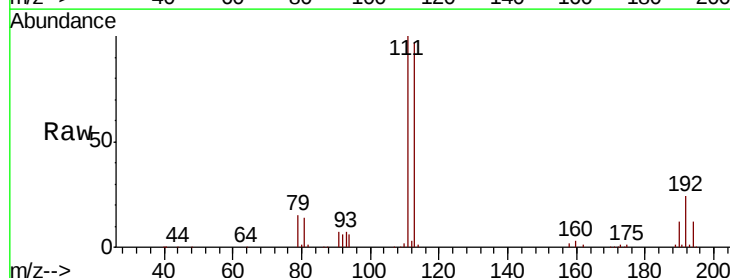


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

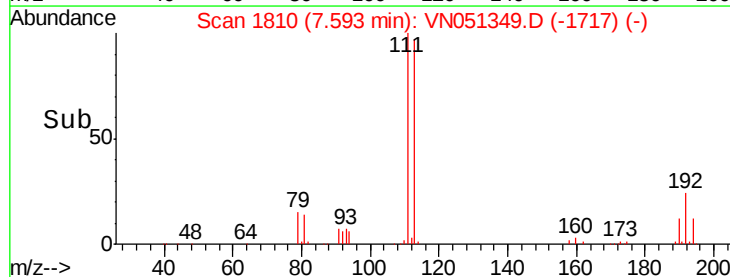
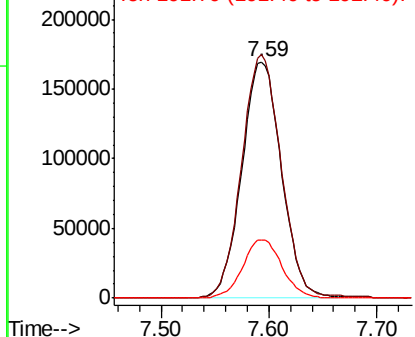


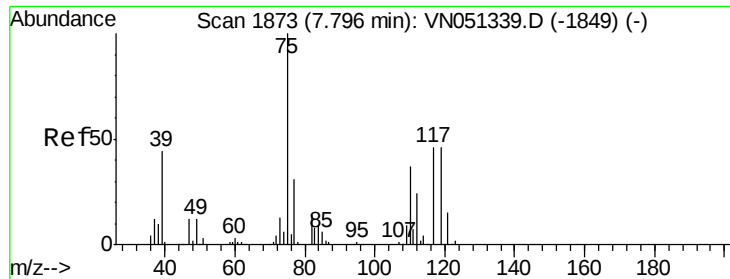
#35
 Dibromofluoromethane
 Concen: 45.88 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051349.D
 Acq: 20 Sep 2018 19:20

Tgt Ion:113 Resp: 432772
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.9 122.9
 192 24.5 19.8 29.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

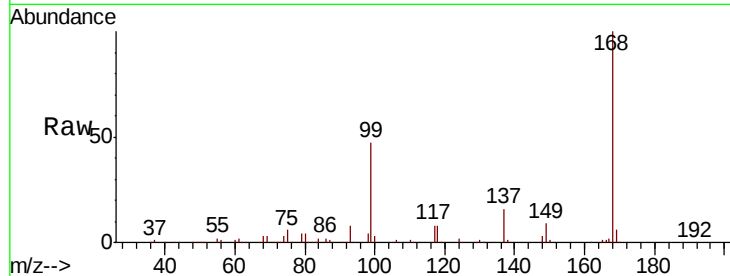




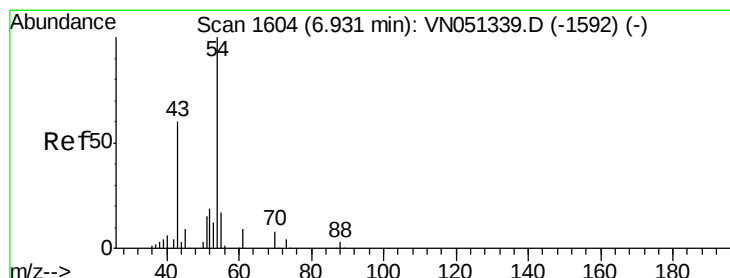
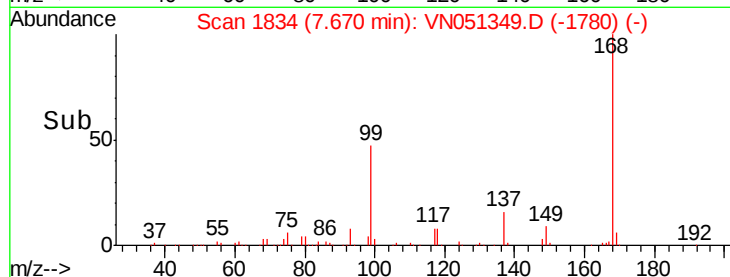
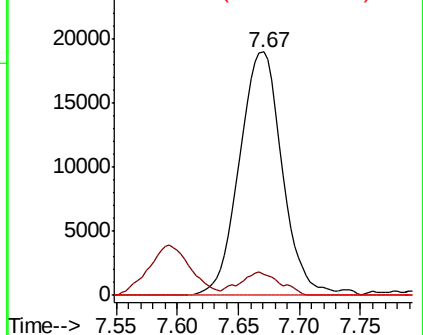
#36
 1,1-Dichloropropene
 Concen: 3.85 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN051349.D
 Acq: 20 Sep 2018 19:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113045TB

Tot Ion: 75 Resp: 45930
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.9 56.5#
 77 0.0 25.4 38.2#

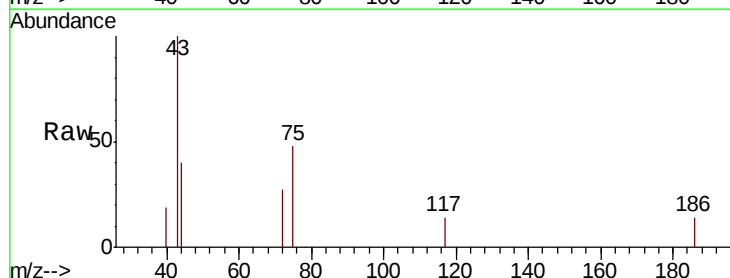


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

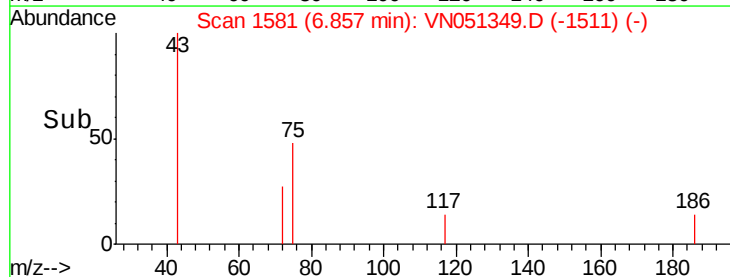
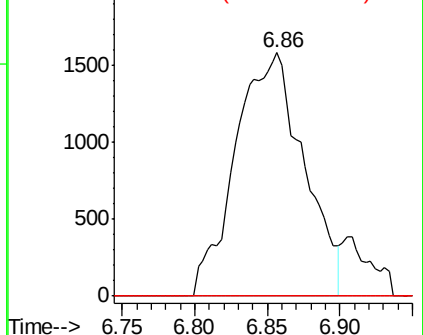


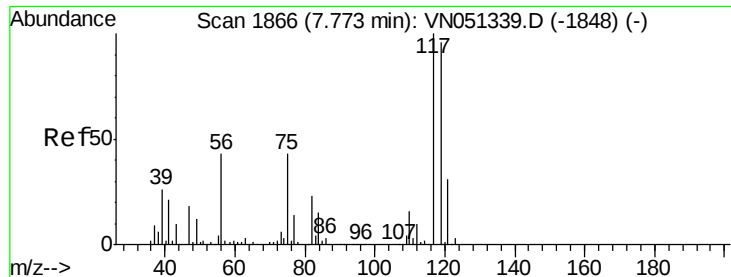
#37
 Ethyl Acetate
 Concen: 0.88 ug/l
 RT: 6.86 min Scan# 1581
 Delta R.T. -0.07 min
 Lab File: VN051349.D
 Acq: 20 Sep 2018 19:20

Tgt Ion: 43 Resp: 5174
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.6 20.4#
 70 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.07 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB113045TB

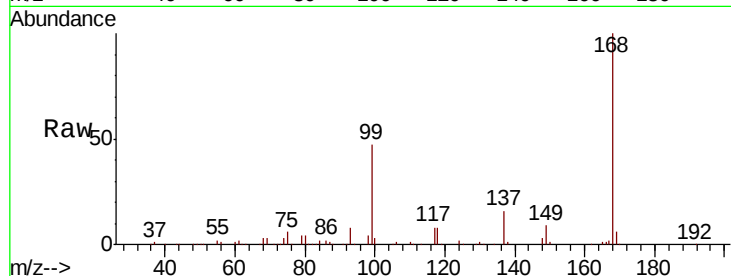
Tot Ion:117 Resp: 65429

Ion Ratio Lower Upper

117 100

119 5.8 77.0 115.4#

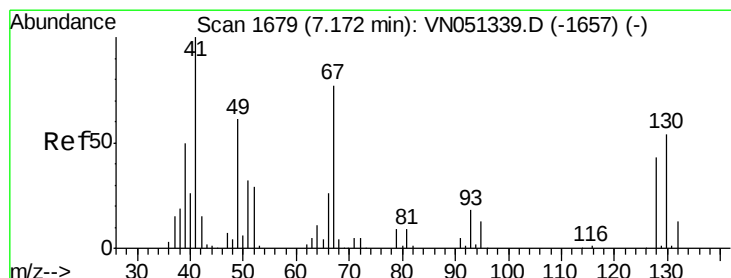
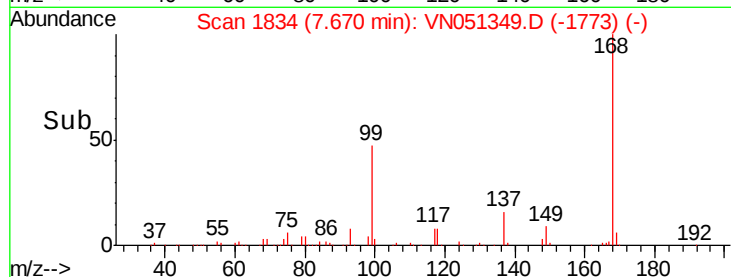
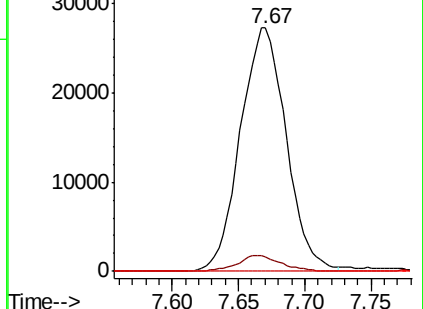
121 0.0 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.25 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.06 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Tgt Ion: 41 Resp: 767

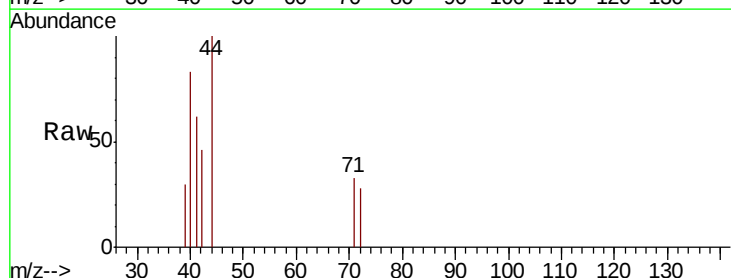
Ion Ratio Lower Upper

41 100

39 26.9 51.3 76.9#

67 0.0 77.0 115.4#

52 0.0 30.4 45.6#

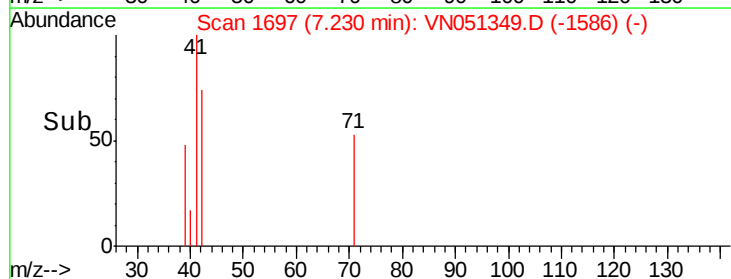
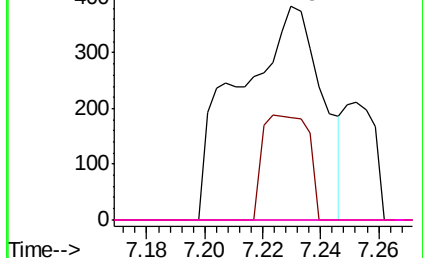


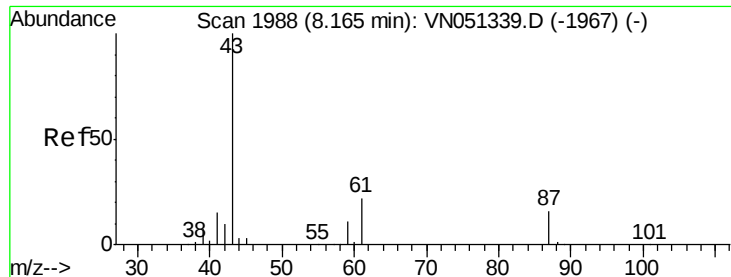
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 27.13 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB113045TB

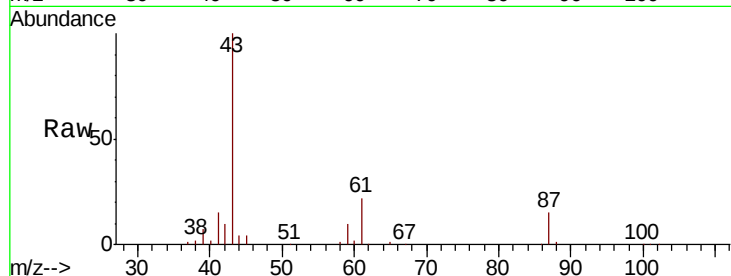
Tot Ion: 43 Resp: 280869

Ion Ratio Lower Upper

43 100

61 20.6 18.1 27.1

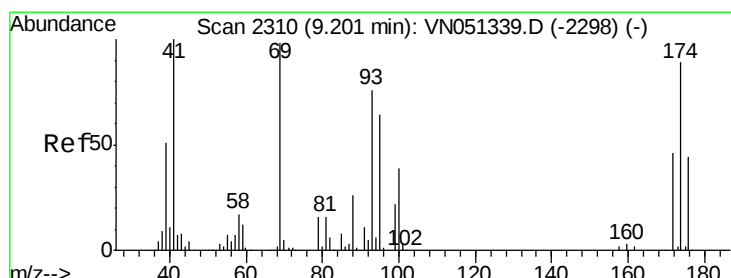
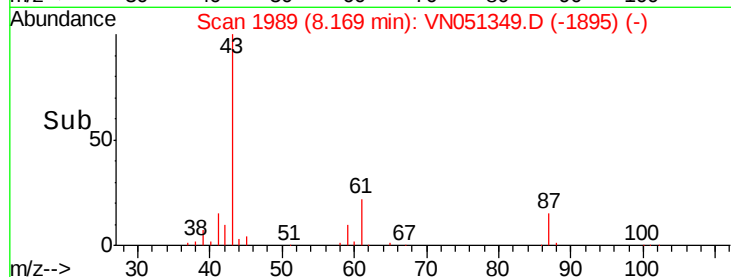
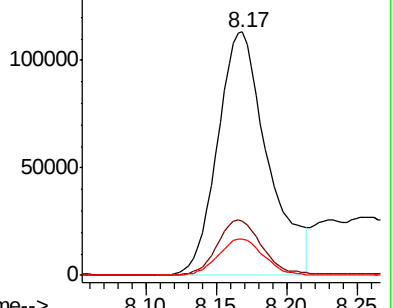
87 13.5 12.8 19.2



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN051339.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN051339.D (-1967) (-)



#48

Methyl methacrylate

Concen: 1.30 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

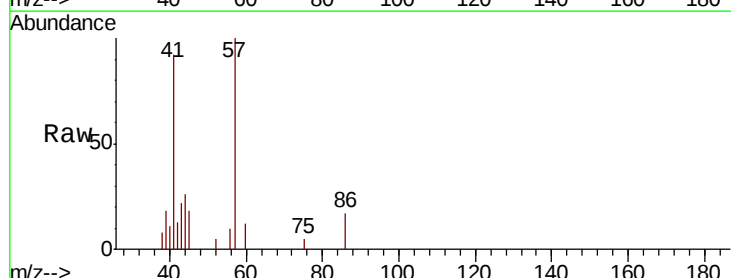
Tgt Ion: 41 Resp: 6866

Ion Ratio Lower Upper

41 100

69 0.0 79.4 119.0#

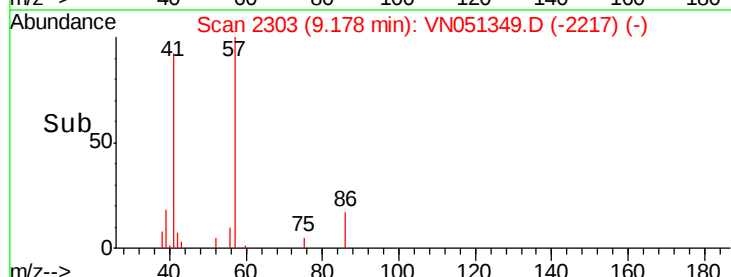
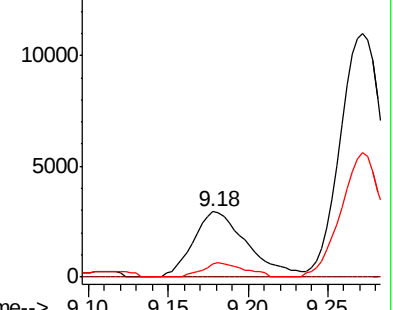
39 16.7 43.0 64.6#

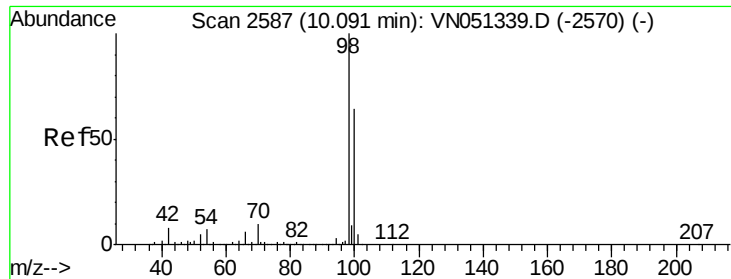


Abundance Ion 41.00 (40.70 to 41.70): VN051339.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051339.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051339.D (-2298) (-)





#50

Toluene-d8

Concen: 44.13 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

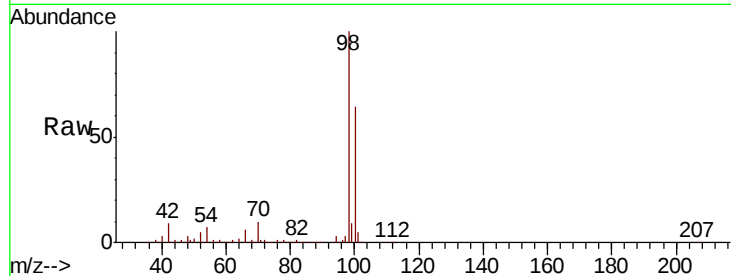
PB113045TB

Tot Ion: 98 Resp: 1600403

Ion Ratio Lower Upper

98 100

100 64.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN051339.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051339.D (-2570) (-)

10.09

800000

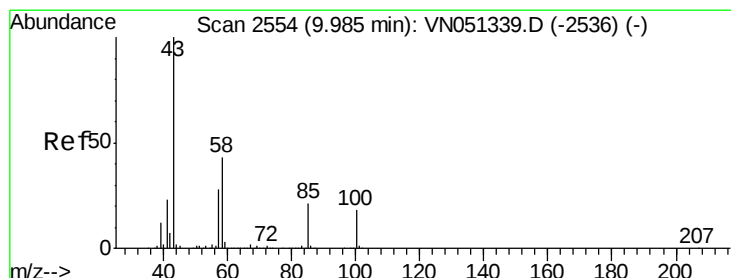
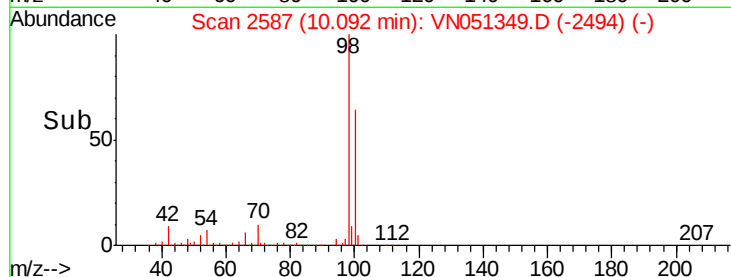
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.60 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051349.D

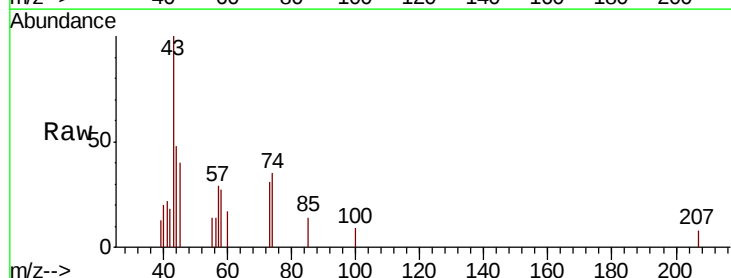
Acq: 20 Sep 2018 19:20

Tgt Ion: 43 Resp: 3360

Ion Ratio Lower Upper

43 100

58 32.4 34.2 51.4#



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN051339.D (-2536) (-)

9.99

2500

2000

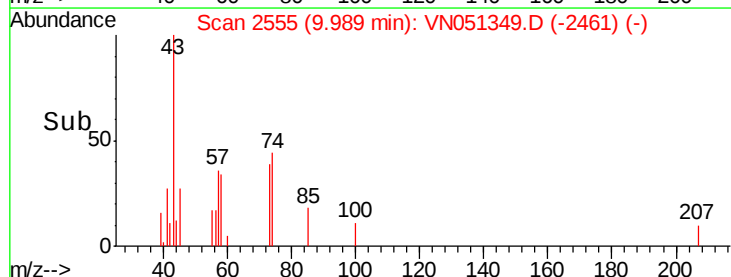
1500

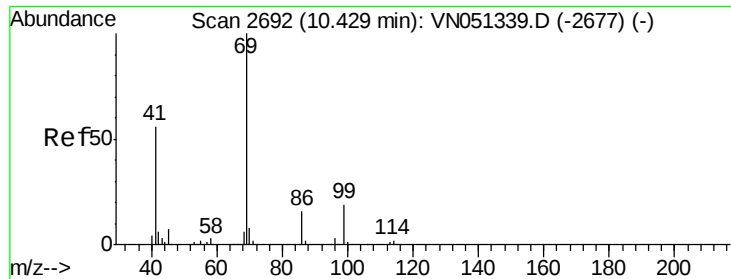
1000

500

0

Time-->





#56

Ethyl methacrylate

Concen: 0.30 ug/l

RT: 10.22 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampled :

PB113045TB

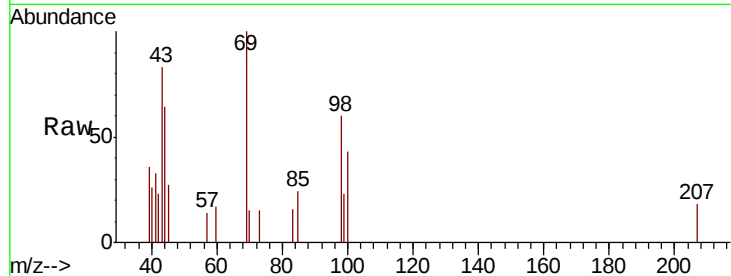
Tot Ion: 69 Resp: 2607

Ion Ratio Lower Upper

69 100

41 29.0 45.1 67.7#

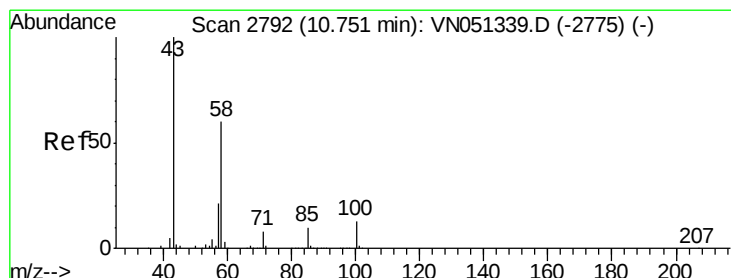
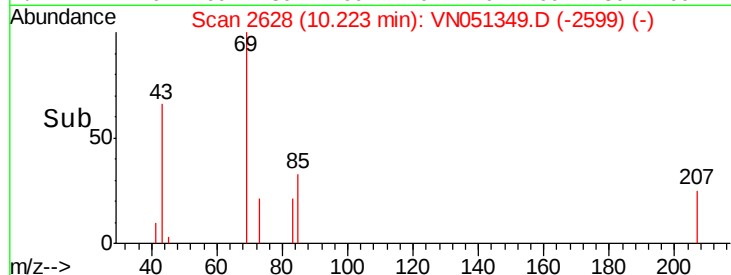
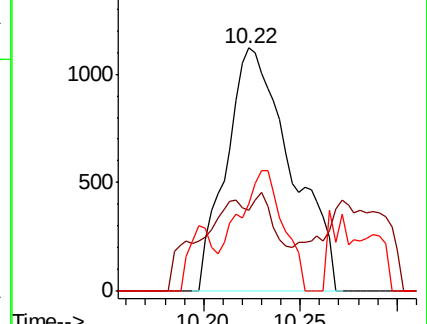
39 35.0 23.4 35.2



Abundance Ion 69.00 (68.70 to 69.70): VN051339.D (-2677) (-)

Ion 41.00 (40.70 to 41.70): VN051339.D (-2677) (-)

Ion 39.00 (38.70 to 39.70): VN051339.D (-2677) (-)



#59

2-Hexanone

Concen: 5.33 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051349.D

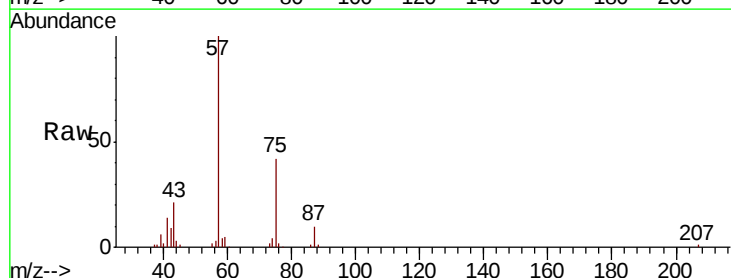
Acq: 20 Sep 2018 19:20

Tgt Ion: 43 Resp: 19999

Ion Ratio Lower Upper

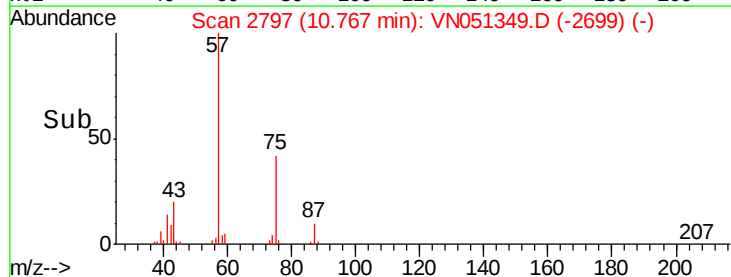
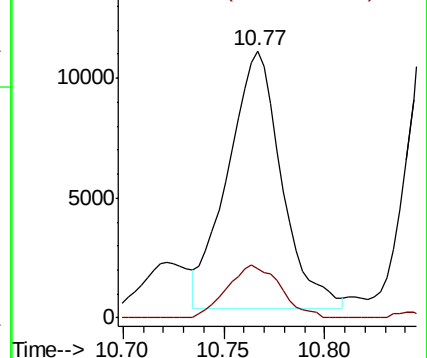
43 100

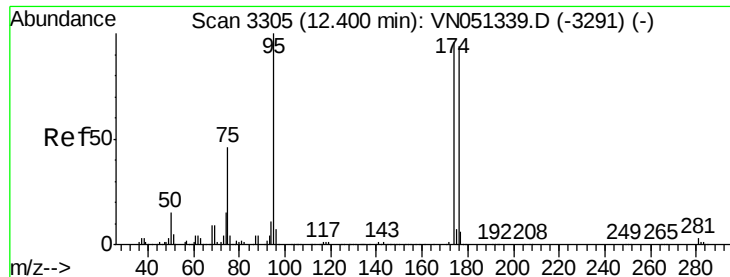
58 20.5 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-2775) (-)

Ion 58.00 (57.70 to 58.70): VN051339.D (-2775) (-)





#62

4-Bromofluorobenzene

Concen: 37.16 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB113045TB

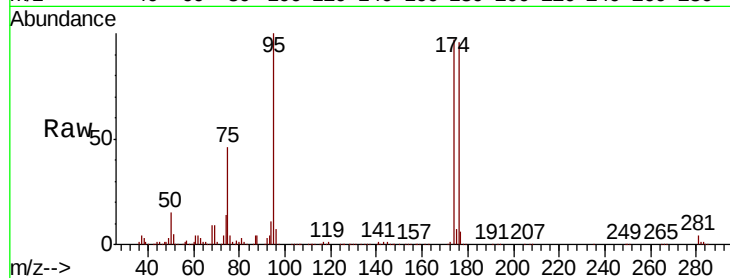
Tot Ion: 95 Resp: 438410

Ion Ratio Lower Upper

95 100

174 96.9 0.0 194.6

176 95.1 0.0 189.6



Abundance Ion 94.90 (94.60 to 95.60): VN051339.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051339.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051339.D (-3291) (-)

12.40

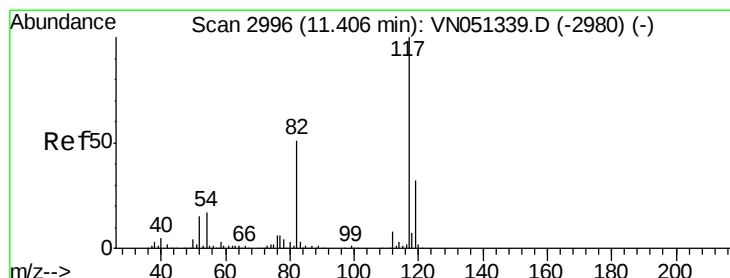
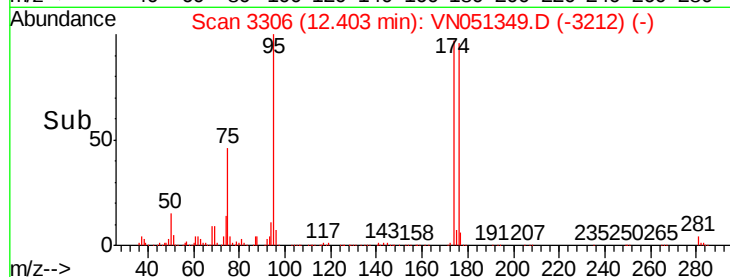
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

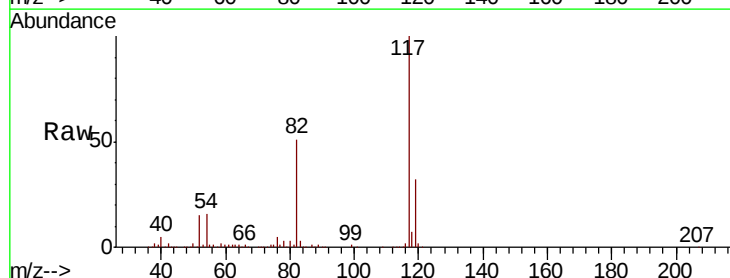
Tgt Ion: 117 Resp: 1004685

Ion Ratio Lower Upper

117 100

82 50.8 40.7 61.1

119 32.1 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN051339.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051339.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051339.D (-2980) (-)

11.41

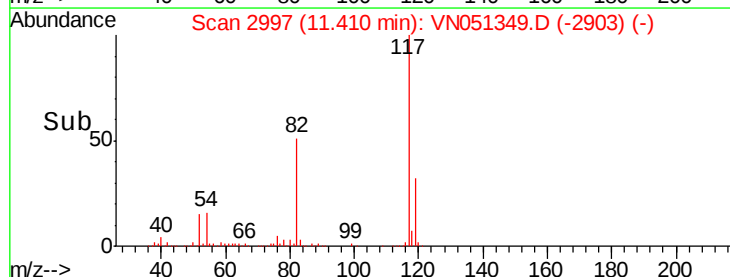
600000

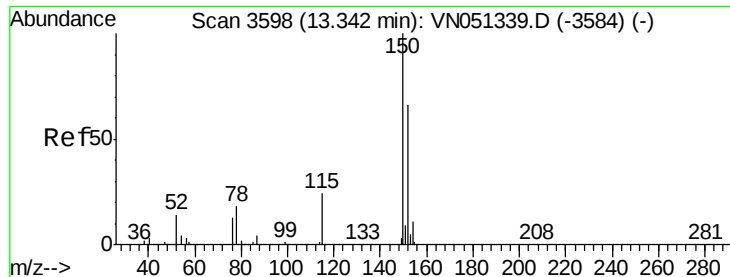
400000

200000

0

Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

PB113045TB

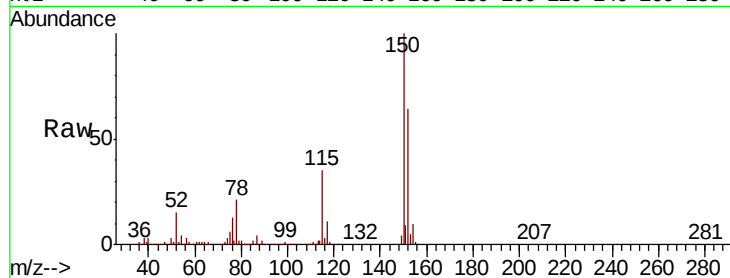
Tot Ion:152 Resp: 391669

Ion Ratio Lower Upper

152 100

115 54.6 26.9 80.7

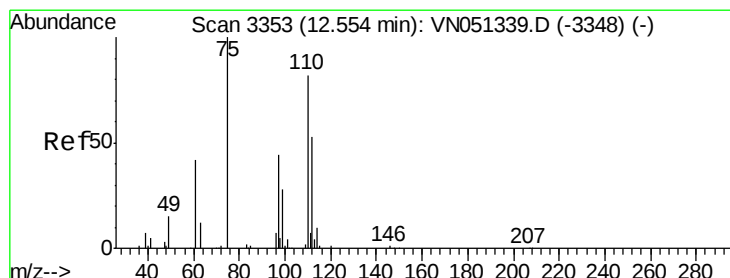
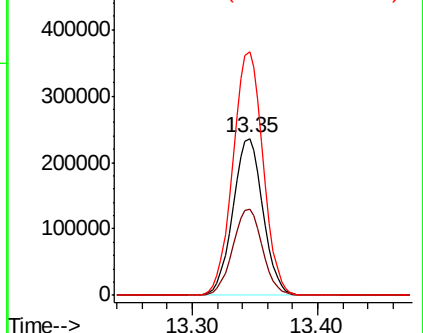
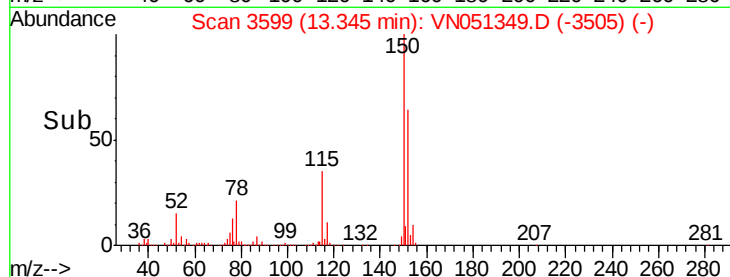
150 156.3 0.0 345.0



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: 35.67 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051349.D

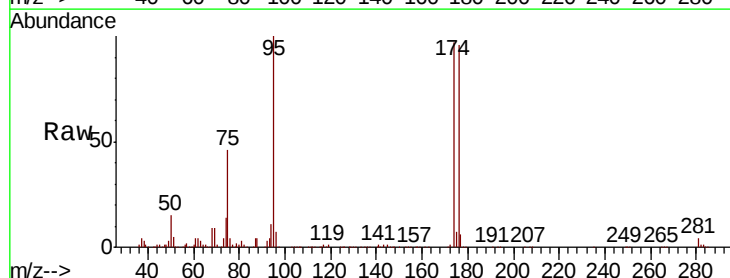
Acq: 20 Sep 2018 19:20

Tgt Ion: 75 Resp: 201730

Ion Ratio Lower Upper

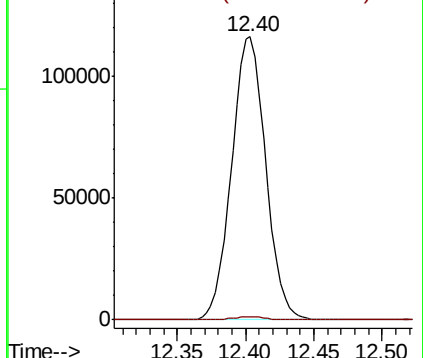
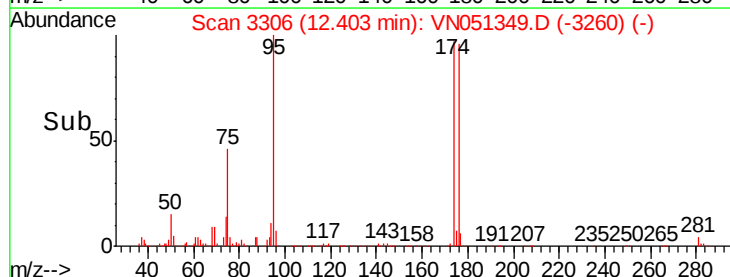
75 100

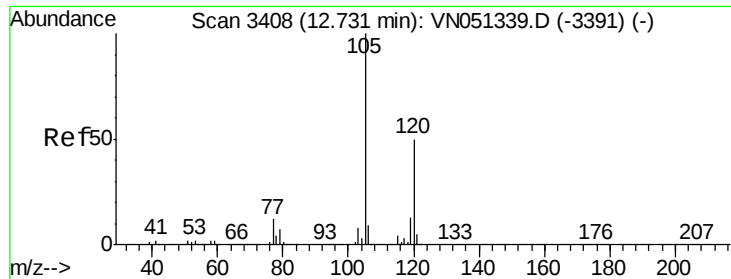
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

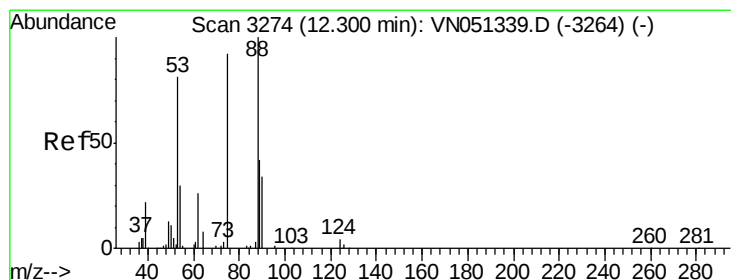
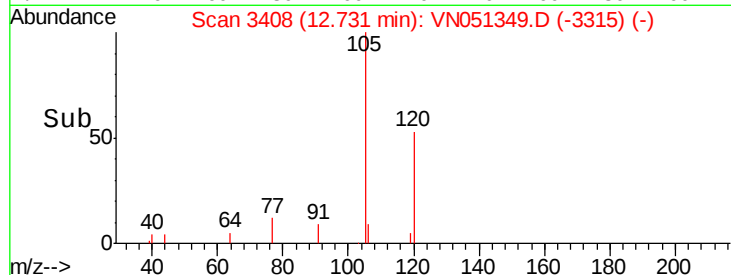
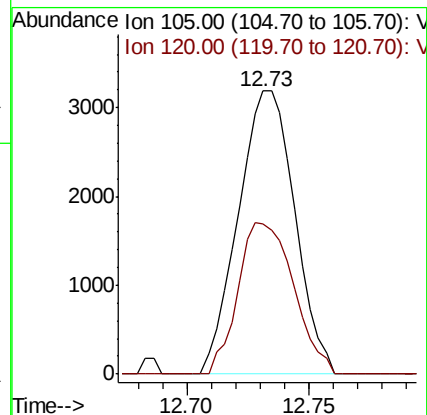
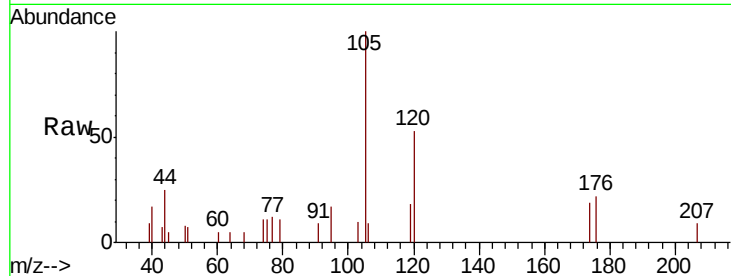
PB113045TB

Tot Ion:105 Resp: 5115

Ion Ratio Lower Upper

105 100

120 52.6 25.2 75.6



#81

trans-1,4-Dichloro-2-butene

Concen: 123.48 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051349.D

Acq: 20 Sep 2018 19:20

Tgt Ion: 75 Resp: 201730

Ion Ratio Lower Upper

75 100

53 0.1 69.9 104.9#

89 0.0 37.9 56.9#

