

Data File : VN053392.D
Acq On : 14 Jan 2019 15:31
Operator : JC/SP
Sample : PB116342ZHE#05
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
PB116342ZHE#05

Quant Time: Jan 14 22:58:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
Quant Title : SW846 8260
QLast Update : Mon Jan 07 09:34:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	989715	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1543221	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1449516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	605500	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	503441	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
35) Dibromofluoromethane	7.59	113	444570	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
50) Toluene-d8	10.09	98	1922021	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	
62) 4-Bromofluorobenzene	12.40	95	665919	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	

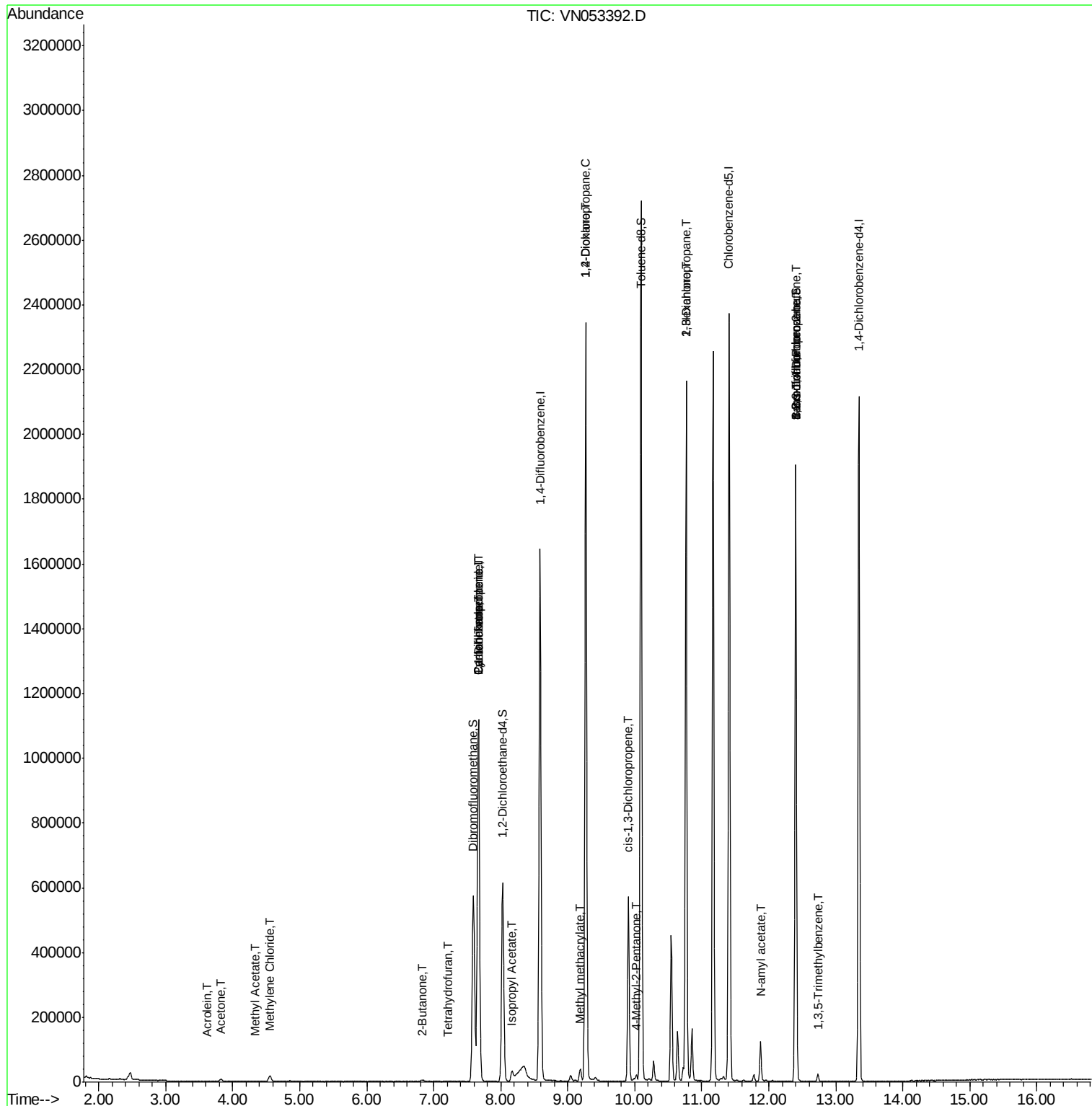
Target Compounds						Qvalue
13) Acrolein	3.61	56	271	0.348	ug/l #	14
16) Acetone	3.82	43	13389	3.196	ug/l	98
18) Methyl Acetate	4.33	43	4675	0.502	ug/l #	84
20) Methylene Chloride	4.55	84	13294	1.202	ug/l	99
25) 2-Butanone	6.84	43	1016	0.241	ug/l #	47
29) Tetrahydrofuran	7.21	42	1532	0.550	ug/l #	47
31) Cyclohexane	7.66	56	15320	0.680	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	64513	4.478	ug/l #	48
38) Carbon Tetrachloride	7.67	117	84900	6.385	ug/l #	16
43) Isopropyl Acetate	8.17	43	46486	2.518	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	2812	0.244	ug/l #	43
48) Methyl methacrylate	9.18	41	12880	1.536	ug/l #	12
49) 1,4-Dioxane	9.26	88	241	2.697	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	14701	1.584	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	107775	6.501	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	22197	1.337	ug/l #	42
59) 2-Hexanone	10.76	43	306695	48.216	ug/l #	50
71) Bromoform	12.40	173	4255	0.547	ug/l #	1
74) N-amyl acetate	11.88	43	38178	2.836	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	306573	34.713	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	10632	0.293	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	306573	102.133	ug/l #	14

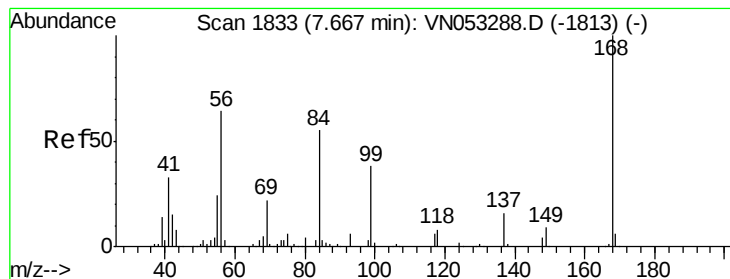
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

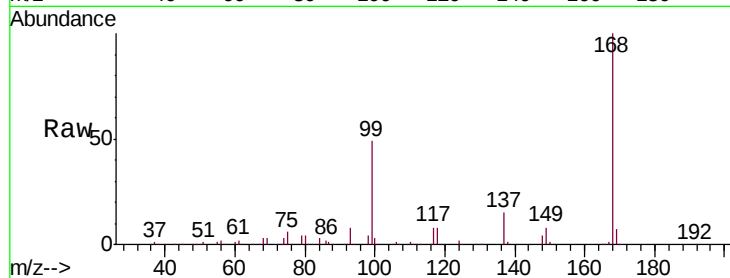
PB116342ZHE#05

Tgt Ion:168 Resp: 989715

Ion Ratio Lower Upper

168 100

99 49.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053392.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053392.D (-1740) (-)

7.67

400000

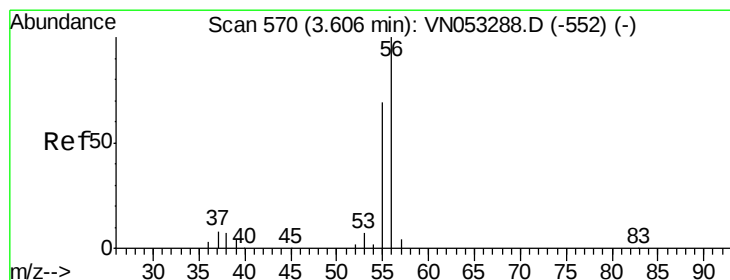
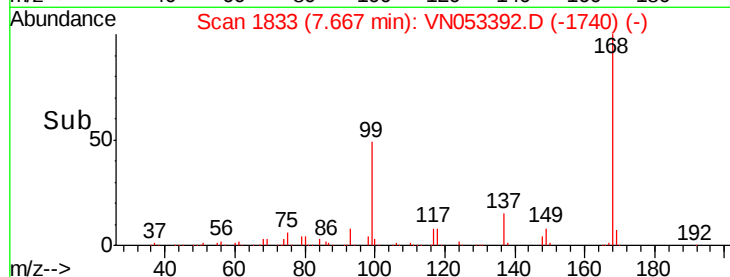
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.348 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053392.D

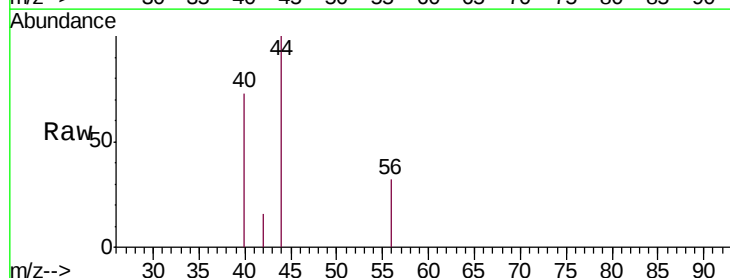
Acq: 14 Jan 2019 15:31

Tgt Ion: 56 Resp: 271

Ion Ratio Lower Upper

56 100

55 0.0 56.3 84.5#



Abundance Ion 56.00 (55.70 to 56.70): VN053392.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN053392.D (-477) (-)

3.61

400

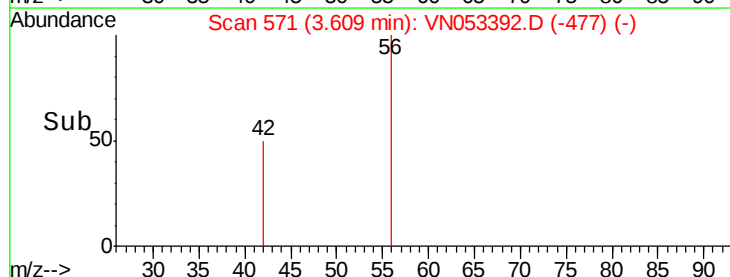
300

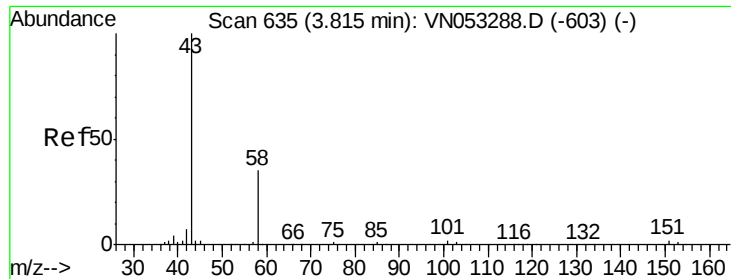
200

100

0

Time-->





#16

Acetone

Concen: 3.196 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

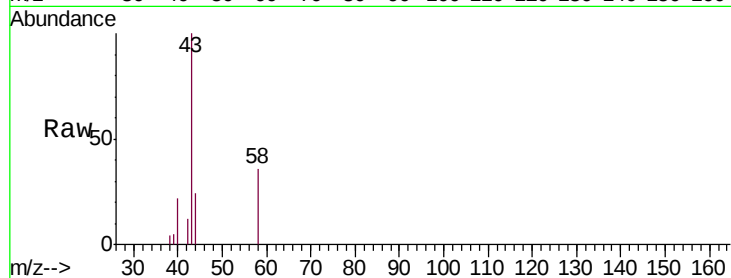
PB116342ZHE#05

Tgt Ion: 43 Resp: 13389

Ion Ratio Lower Upper

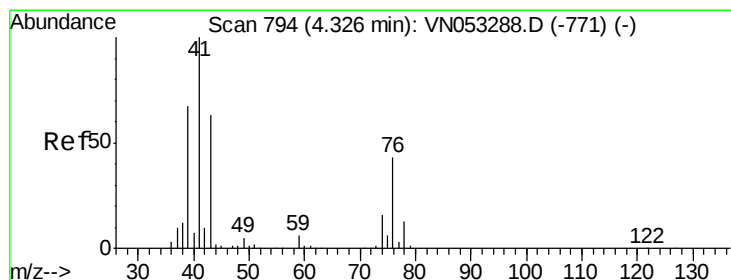
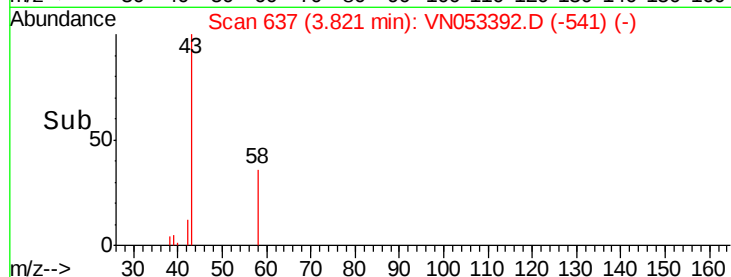
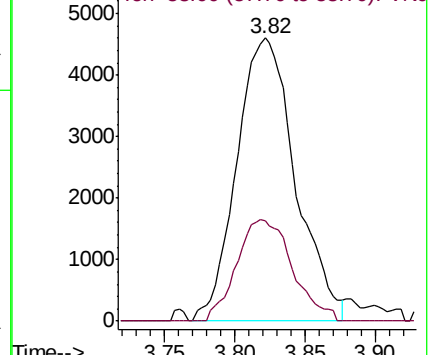
43 100

58 35.6 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN053288.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN053288.D (-603) (-)



#18

Methyl Acetate

Concen: 0.502 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053392.D

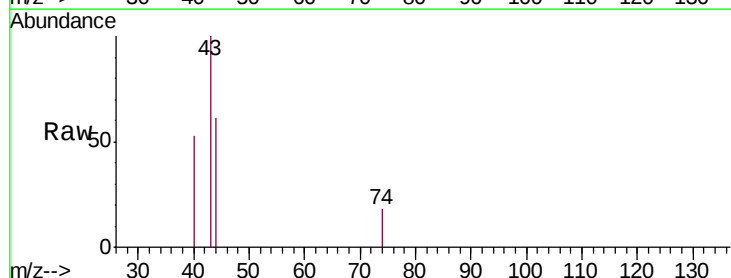
Acq: 14 Jan 2019 15:31

Tgt Ion: 43 Resp: 4675

Ion Ratio Lower Upper

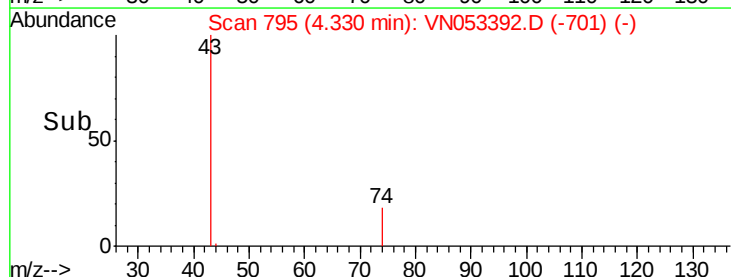
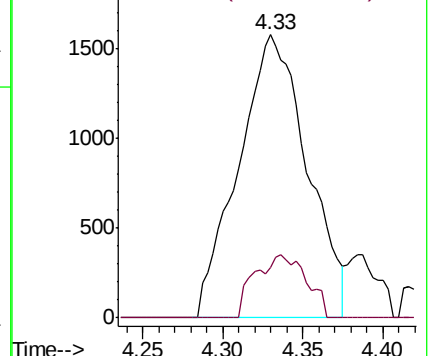
43 100

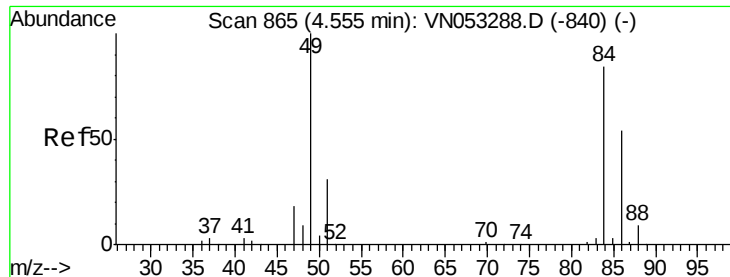
74 16.6 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN053288.D (-771) (-)

Ion 74.00 (73.70 to 74.70): VN053288.D (-771) (-)

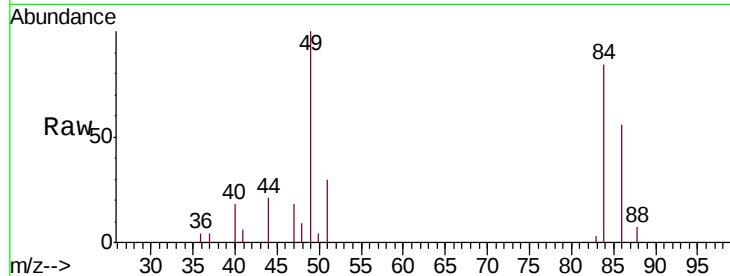




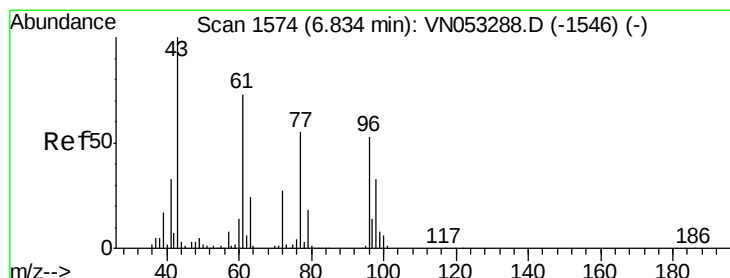
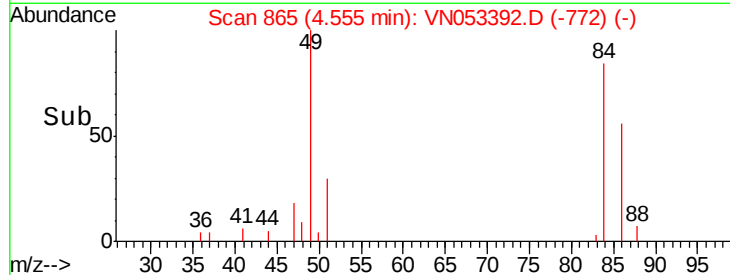
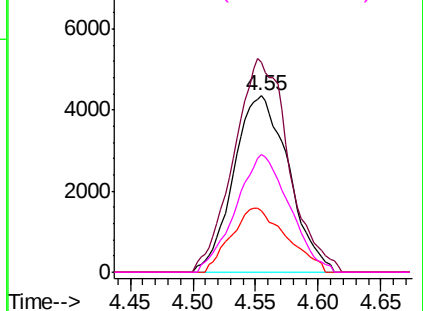
#20
Methylene Chloride
Concen: 1.202 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053392.D
Acq: 14 Jan 2019 15:31

Instrument :
MSVOA_N
ClientSampleId :
PB116342ZHE#05

Tgt Ion: 84 Resp: 13294
Ion Ratio Lower Upper
84 100
49 119.2 95.3 142.9
51 35.2 29.0 43.6
86 67.1 51.7 77.5

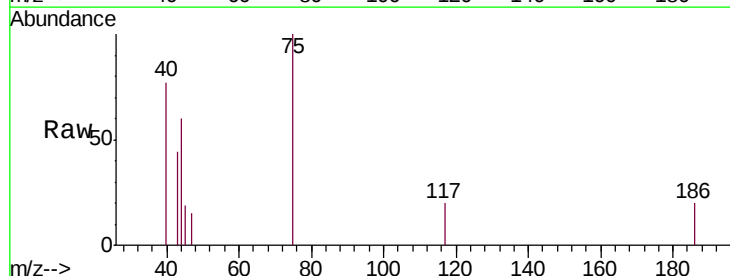


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

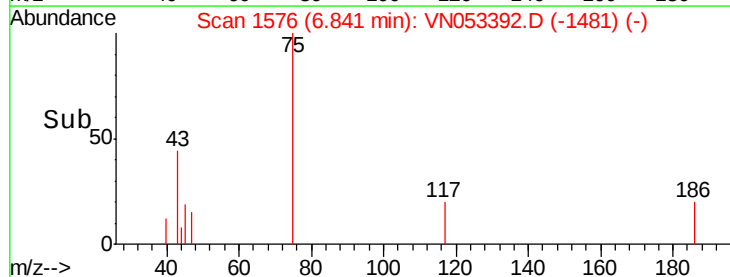
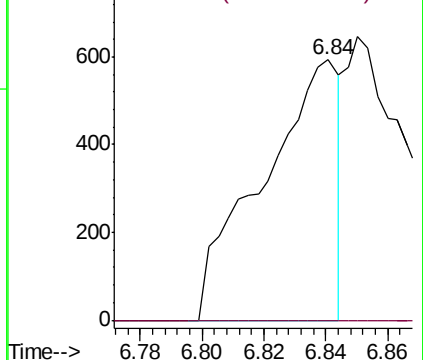


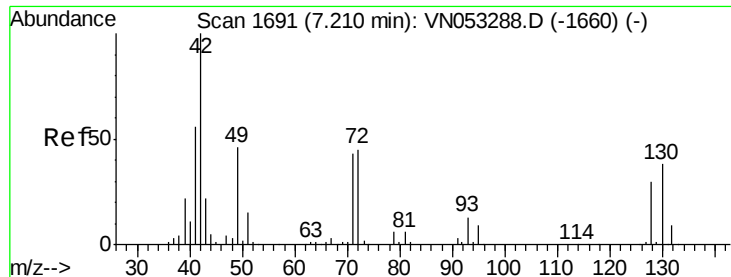
#25
2-Butanone
Concen: 0.241 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053392.D
Acq: 14 Jan 2019 15:31

Tgt Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#



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





#29

Tetrahydrofuran

Concen: 0.550 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB116342ZHE#05

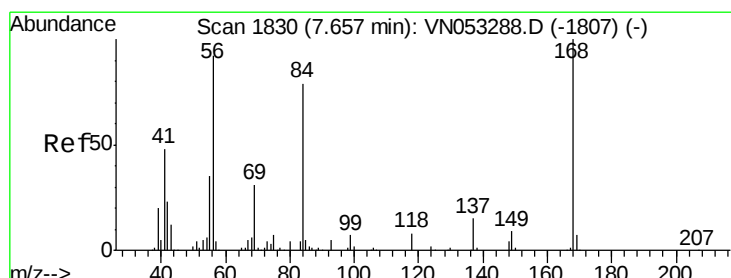
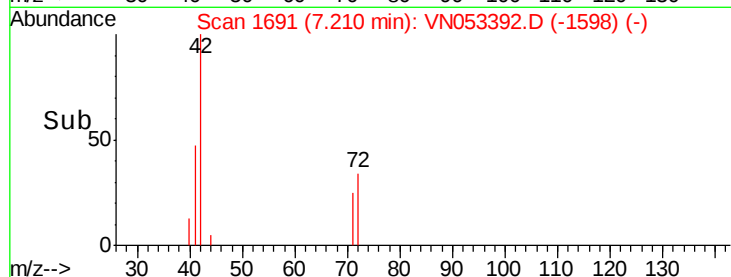
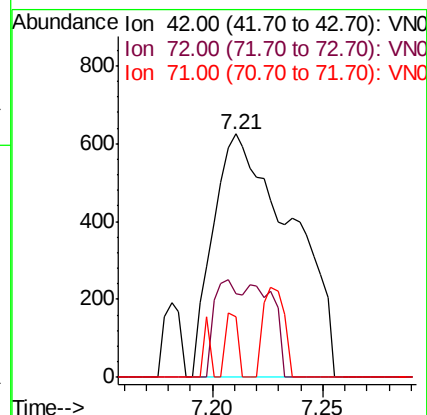
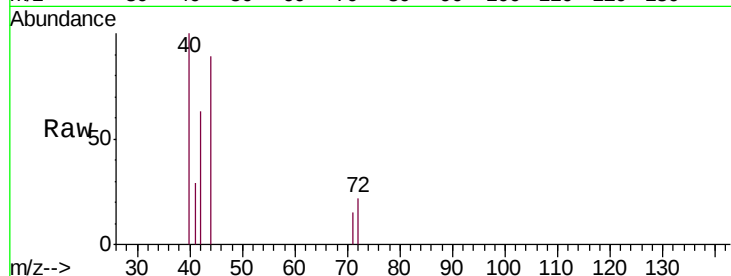
Tgt Ion: 42 Resp: 1532

Ion Ratio Lower Upper

42 100

72 14.0 35.6 53.4#

71 4.0 33.8 50.8#



#31

Cyclohexane

Concen: 0.680 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

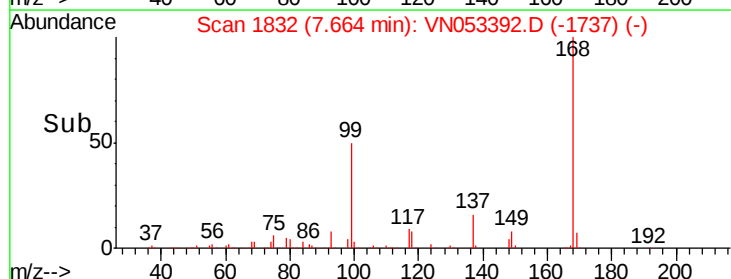
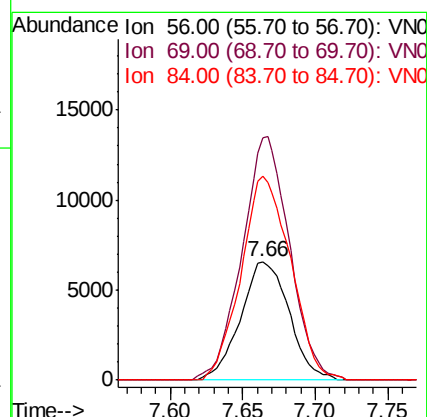
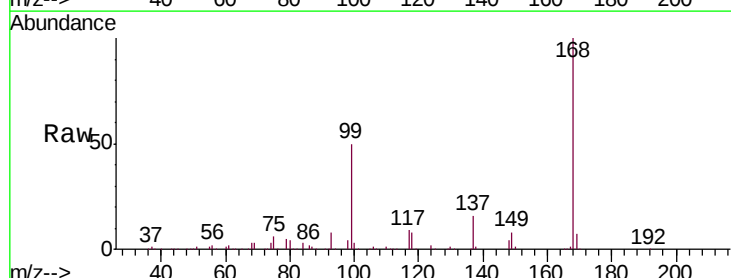
Tgt Ion: 56 Resp: 15320

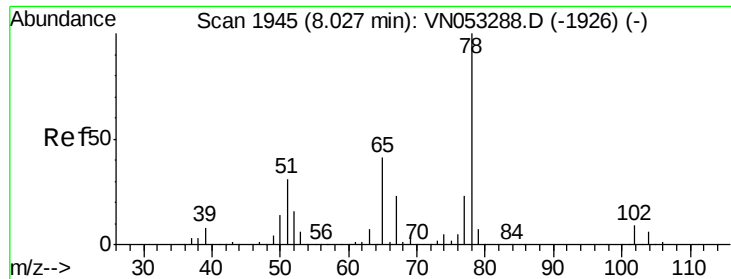
Ion Ratio Lower Upper

56 100

69 204.3 26.7 40.1#

84 171.9 68.2 102.4#

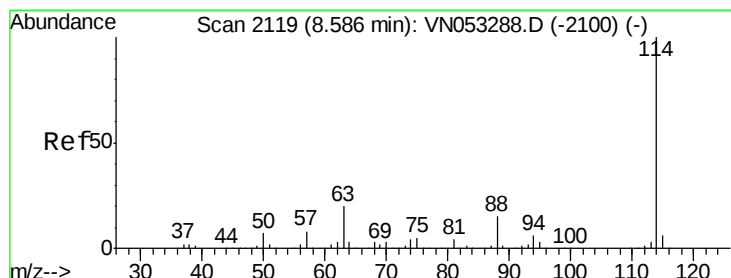
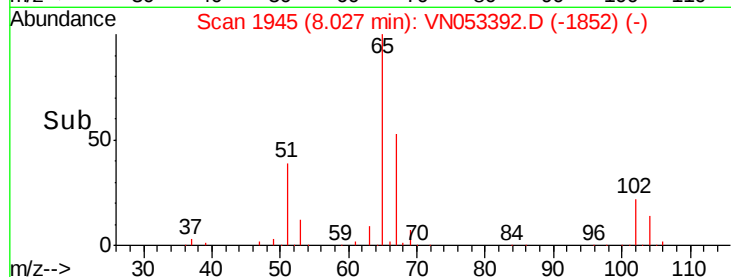
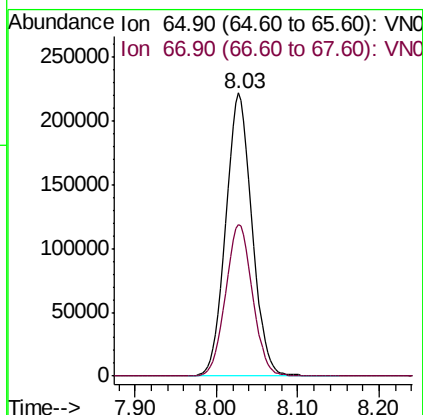
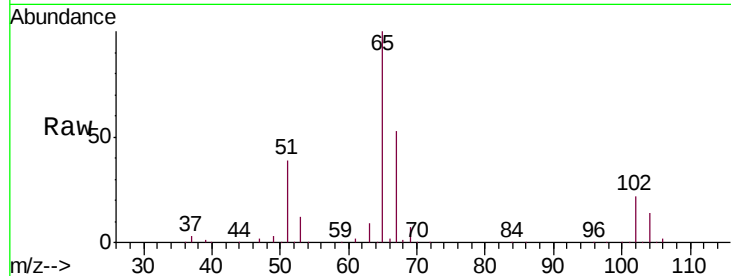




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053392.D
 Acq: 14 Jan 2019 15:31

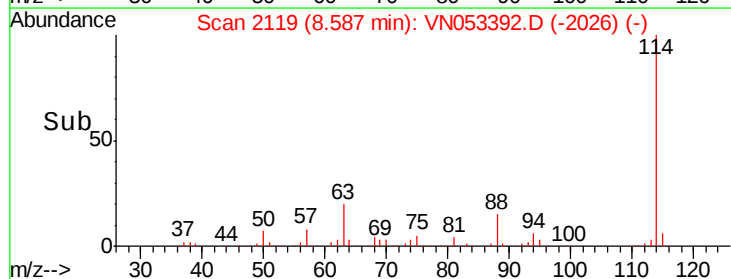
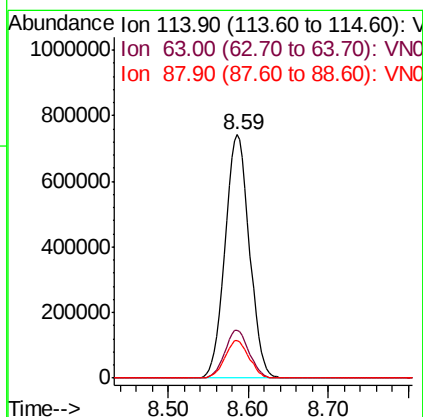
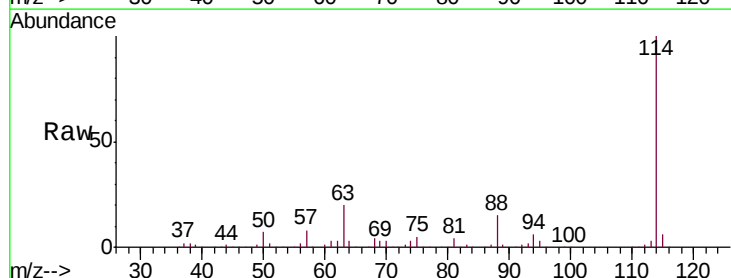
Instrument :
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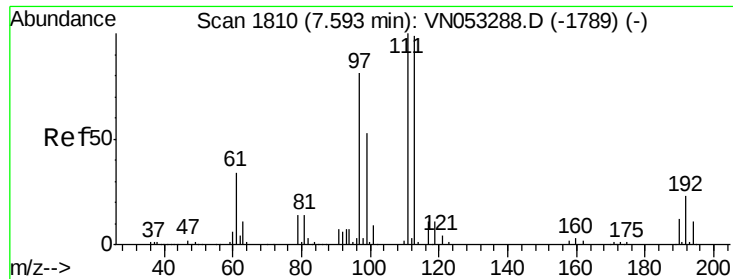
Tgt Ion: 65 Resp: 503441
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053392.D
 Acq: 14 Jan 2019 15:31

Tgt Ion: 114 Resp: 1543221
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.5 0.0 30.8

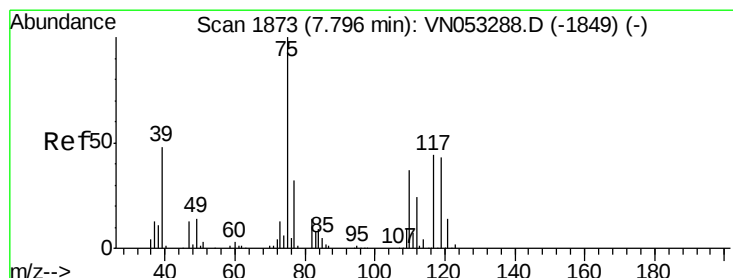
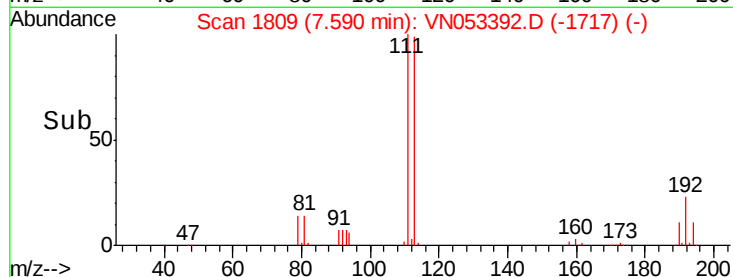
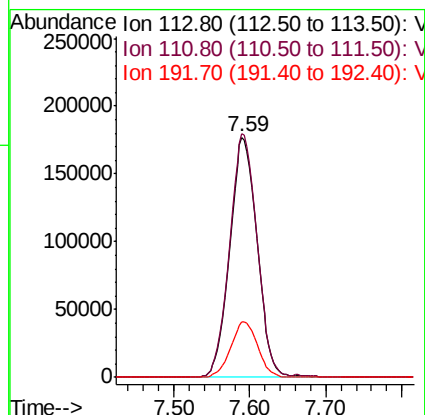
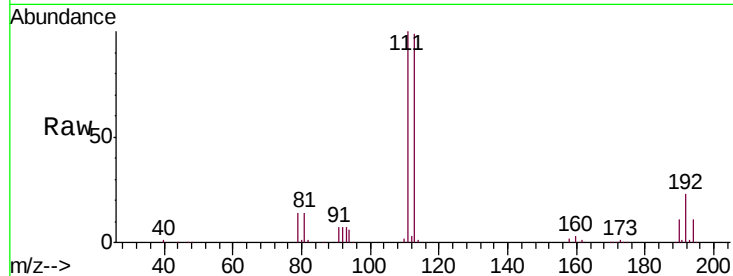




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053392.D
 Acq: 14 Jan 2019 15:31

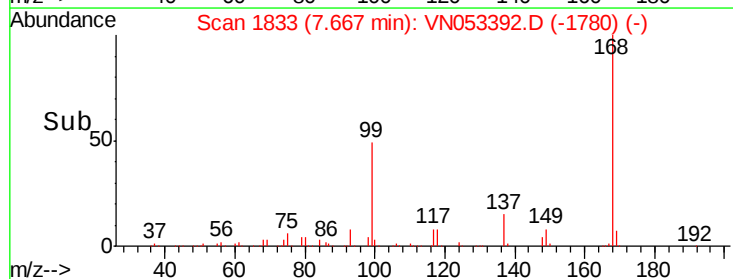
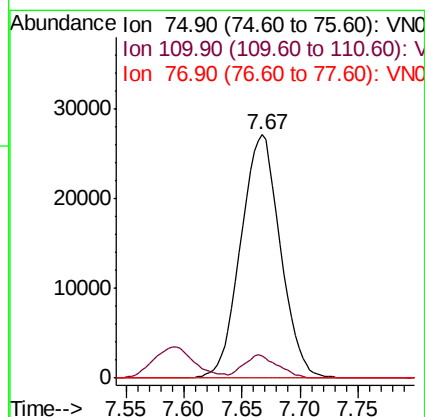
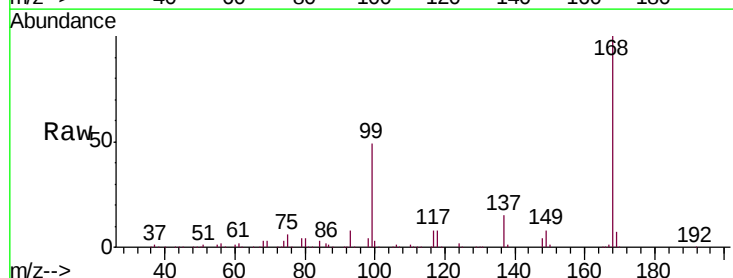
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116342ZHE#05

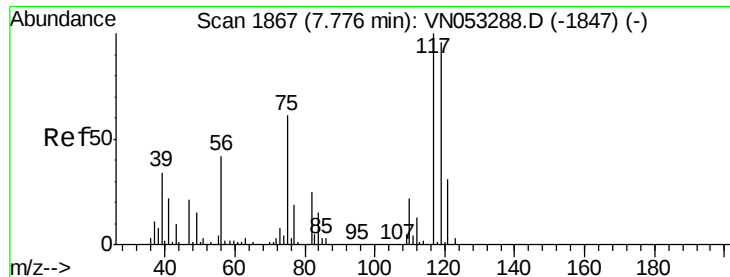
Tgt Ion:113 Resp: 444570
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.4 122.2
 192 22.8 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.478 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053392.D
 Acq: 14 Jan 2019 15:31

Tgt Ion: 75 Resp: 64513
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.4 55.0#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.385 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB116342ZHE#05

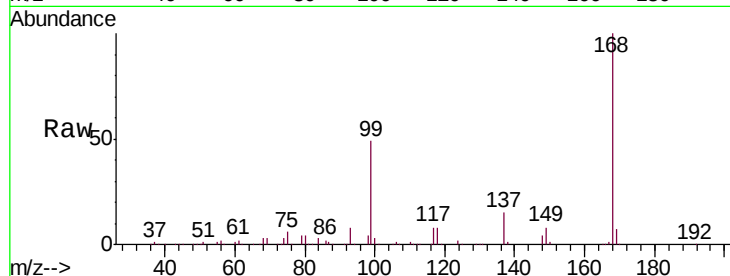
Tgt Ion:117 Resp: 84900

Ion Ratio Lower Upper

117 100

119 5.4 76.6 115.0#

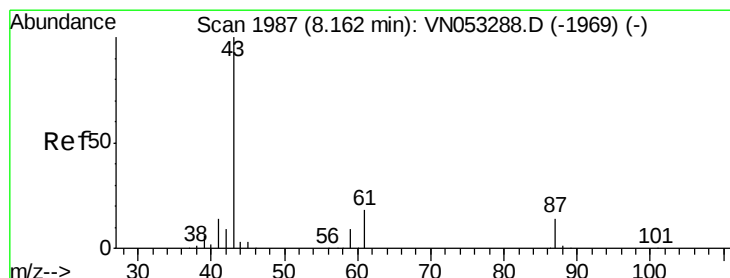
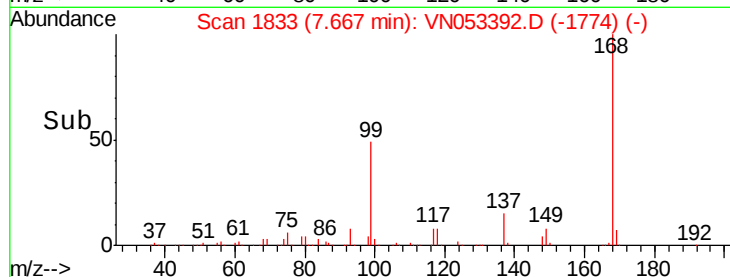
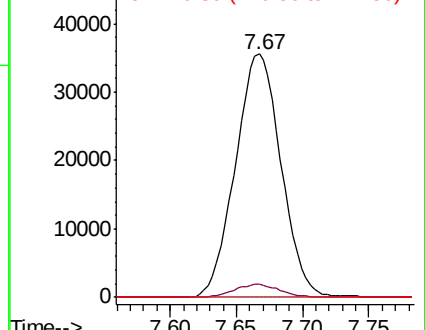
121 0.0 25.0 37.4#



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



#43

Isopropyl Acetate

Concen: 2.518 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

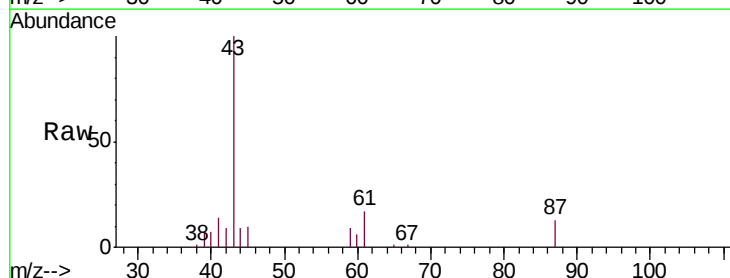
Tgt Ion: 43 Resp: 46486

Ion Ratio Lower Upper

43 100

61 17.3 23.3 34.9#

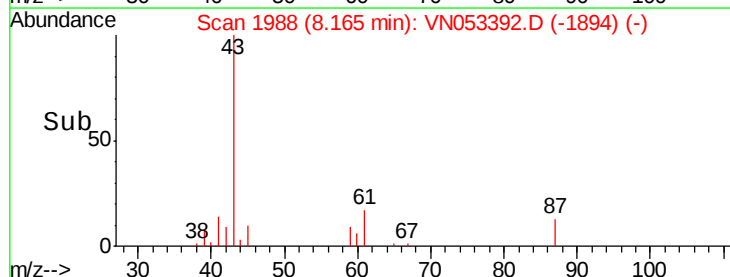
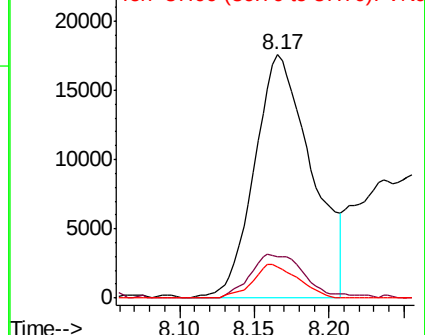
87 11.0 10.8 16.2

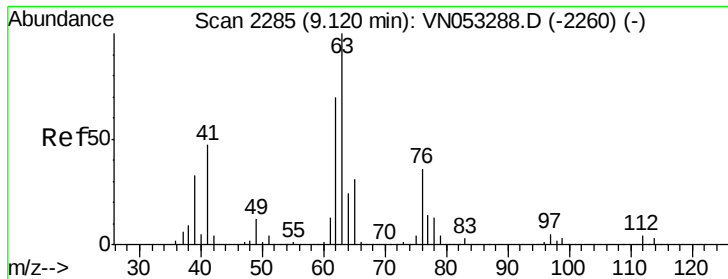


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.244 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

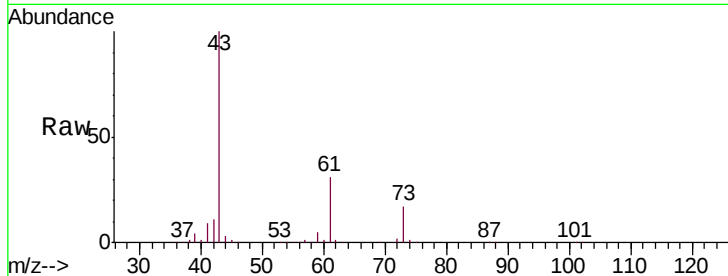
PB116342ZHE#05

Tgt Ion: 63 Resp: 2812

Ion Ratio Lower Upper

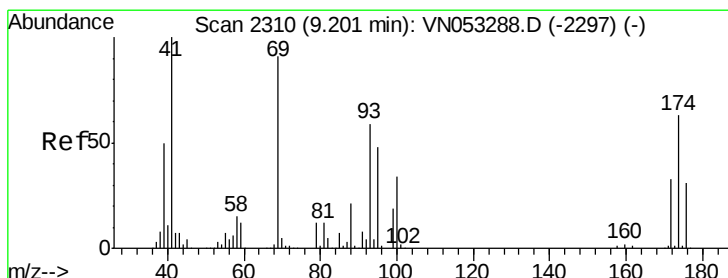
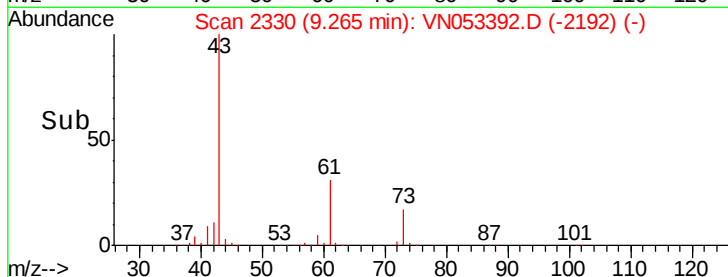
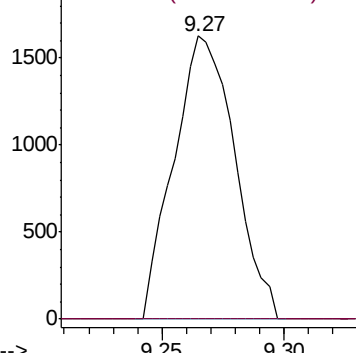
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.536 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

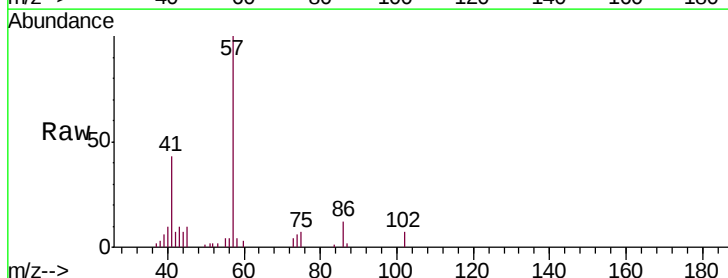
Tgt Ion: 41 Resp: 12880

Ion Ratio Lower Upper

41 100

69 0.0 73.5 110.3#

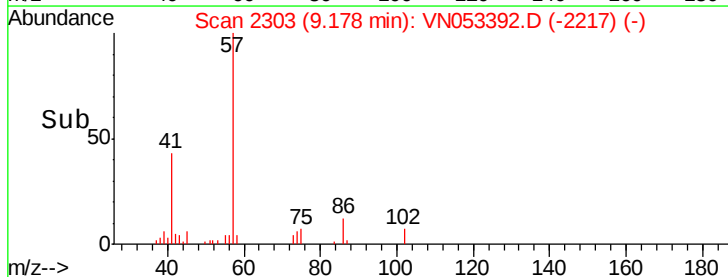
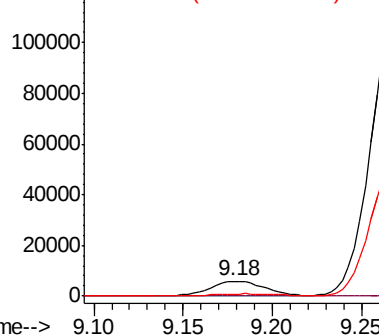
39 0.0 41.6 62.4#

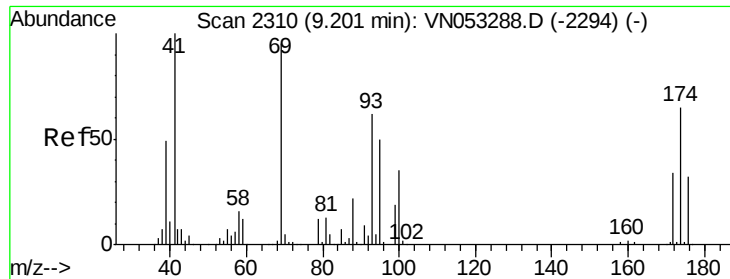


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 2.697 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB116342ZHE#05

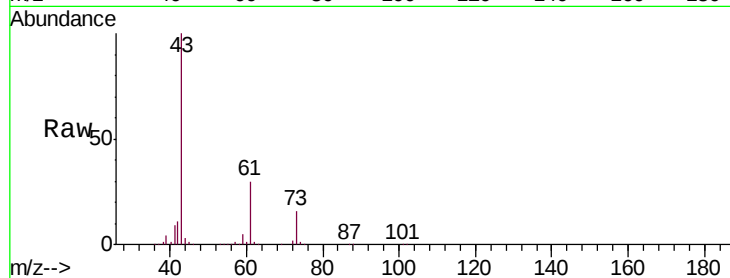
Tgt Ion: 88 Resp: 241

Ion Ratio Lower Upper

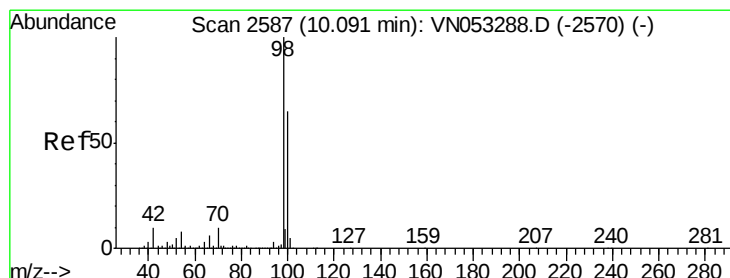
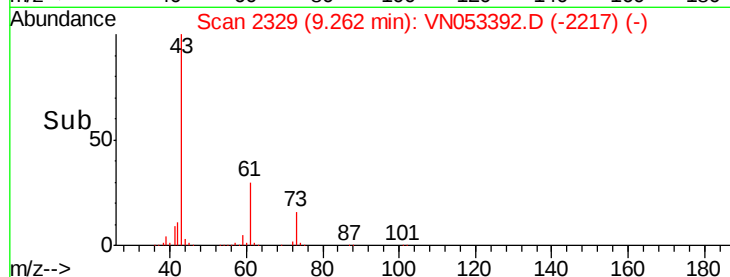
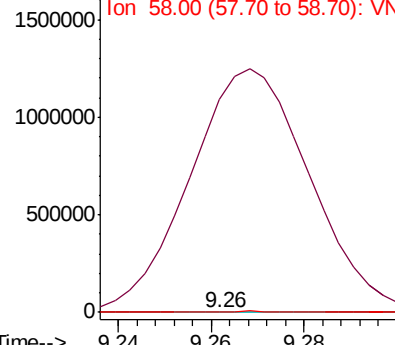
88 100

43 941808.3 26.2 39.4#

58 4286.3 55.5 83.3#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO



#50

Toluene-d8

Concen: 2.697 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053392.D

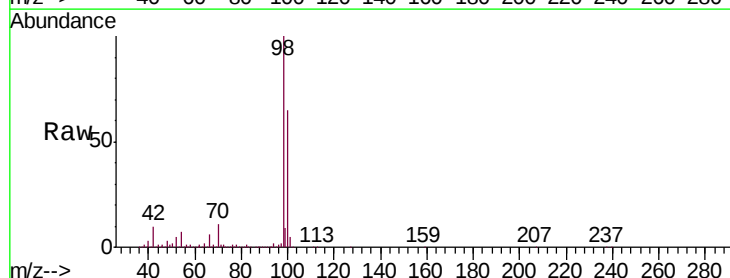
Acq: 14 Jan 2019 15:31

Tgt Ion: 98 Resp: 1922021

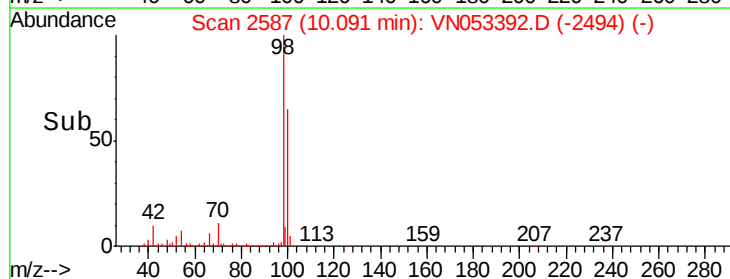
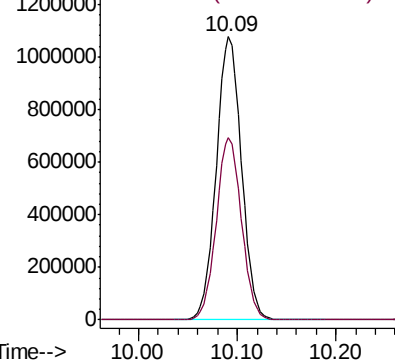
Ion Ratio Lower Upper

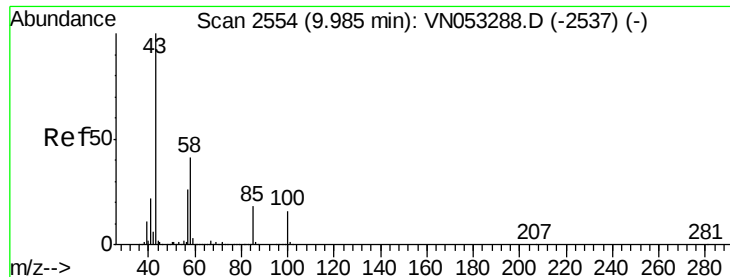
98 100

100 64.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VNO
Ion 100.00 (99.70 to 100.70): VNO

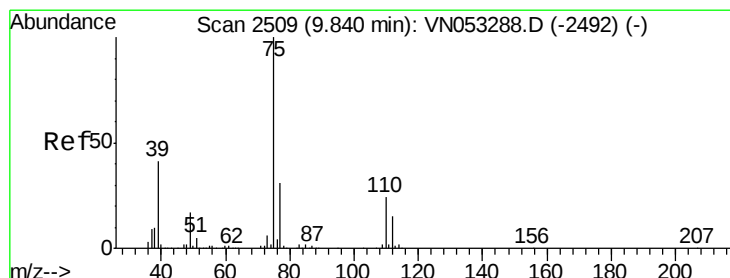
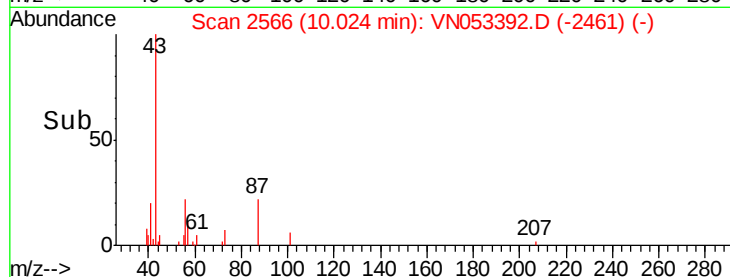
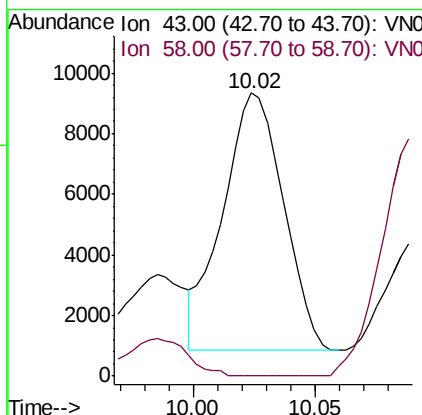
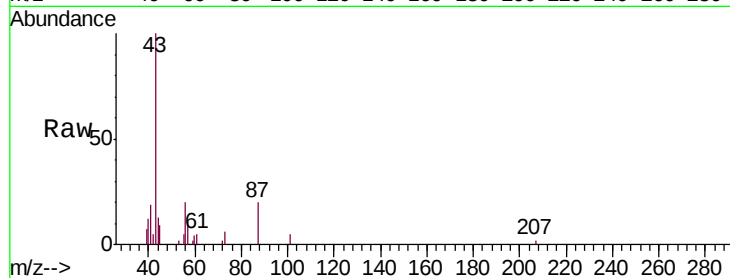




#51
 4-Methyl-2-Pentanone
 Concen: 1.584 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN053392.D
 Acq: 14 Jan 2019 15:31

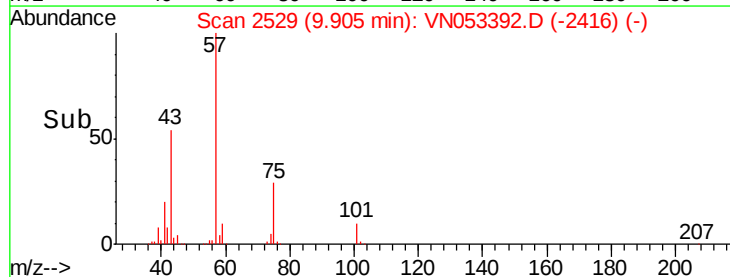
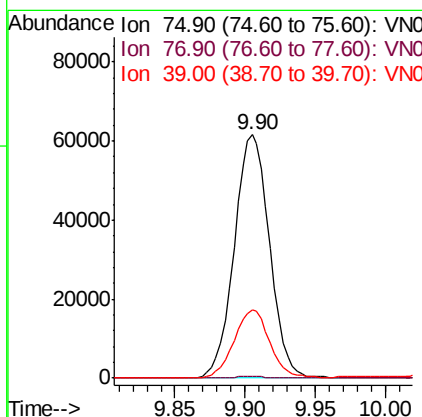
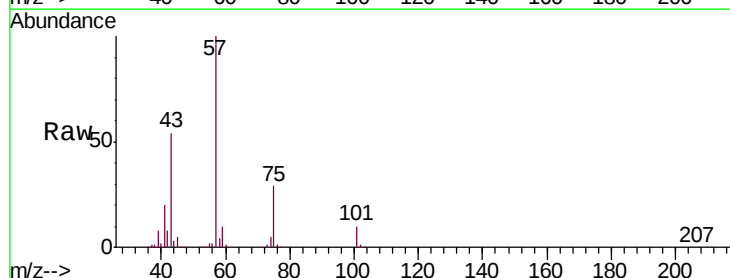
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116342ZHE#05

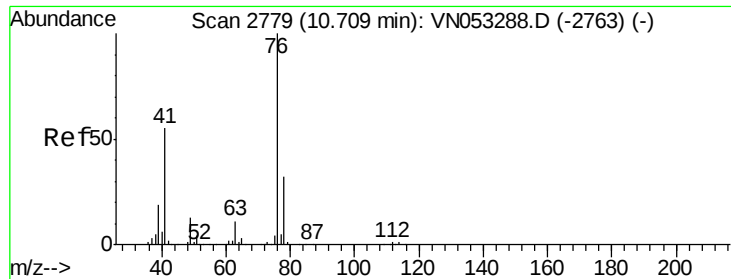
Tgt Ion: 43 Resp: 14701
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.7 49.1#



#54
 cis-1,3-Dichloropropene
 Concen: 6.501 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN053392.D
 Acq: 14 Jan 2019 15:31

Tgt Ion: 75 Resp: 107775
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.1 37.7#
 39 27.8 33.1 49.7#





#57

1,3-Dichloropropane

Concen: 1.337 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

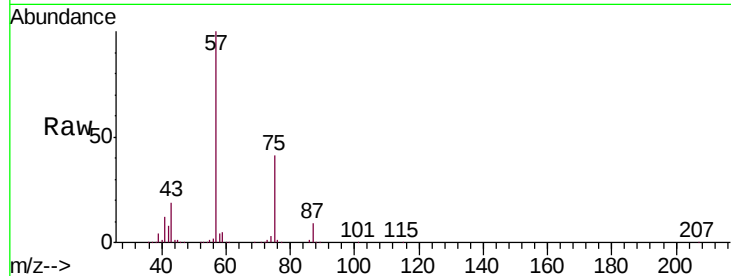
PB116342ZHE#05

Tgt Ion: 76 Resp: 22197

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

15000

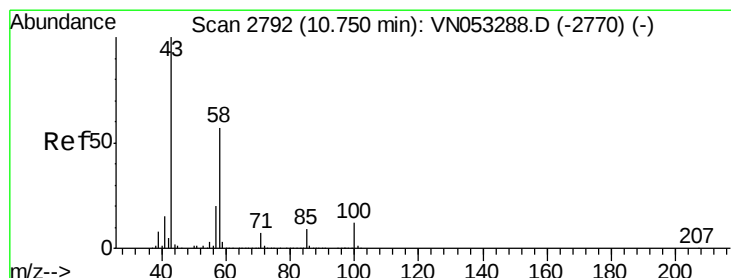
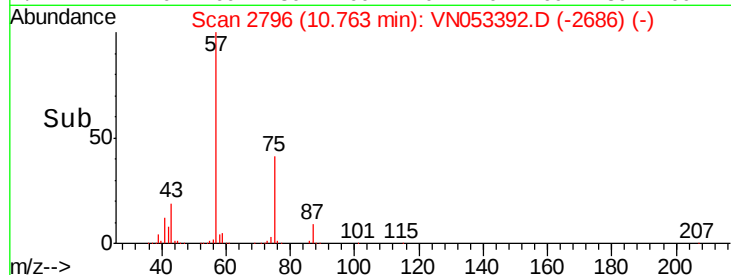
10000

5000

0

Time-->

10.70 10.75 10.80



#59

2-Hexanone

Concen: 48.216 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053392.D

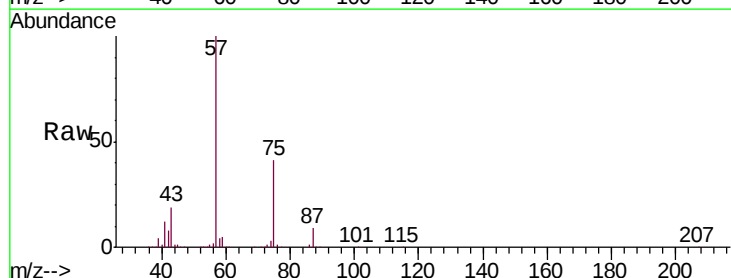
Acq: 14 Jan 2019 15:31

Tgt Ion: 43 Resp: 306695

Ion Ratio Lower Upper

43 100

58 19.9 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

200000

150000

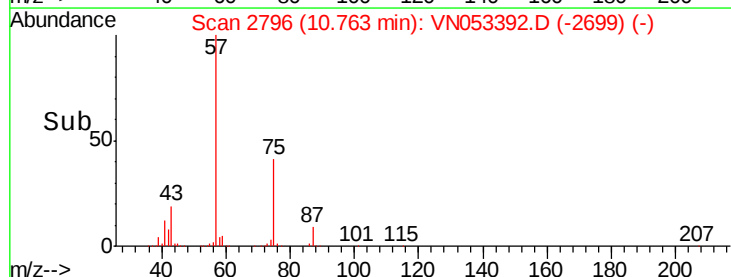
100000

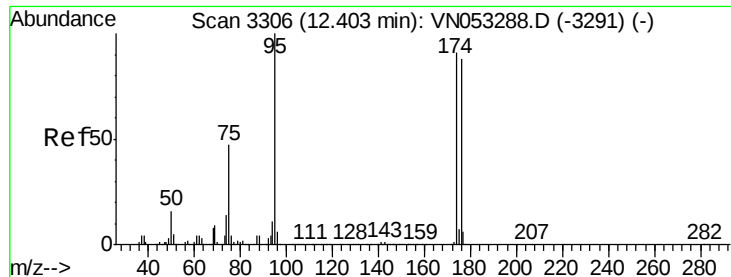
50000

0

Time-->

10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB116342ZHE#05

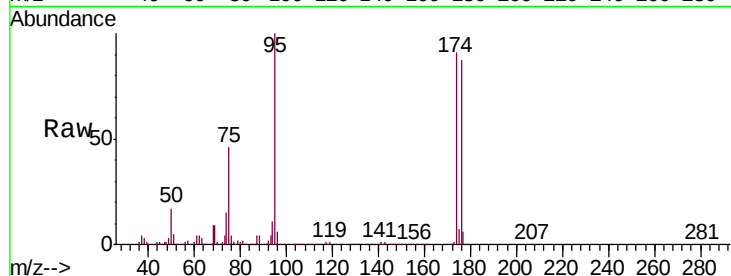
Tgt Ion: 95 Resp: 665919

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.4

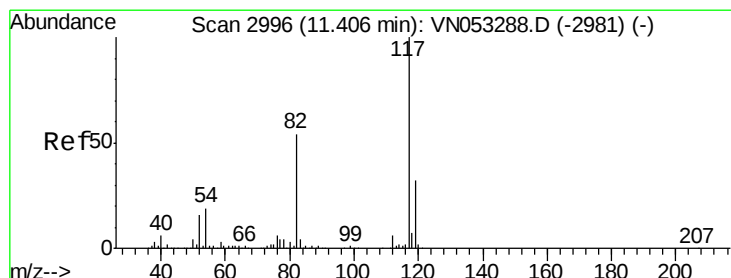
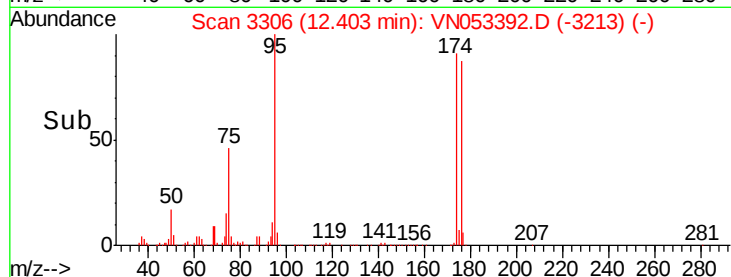
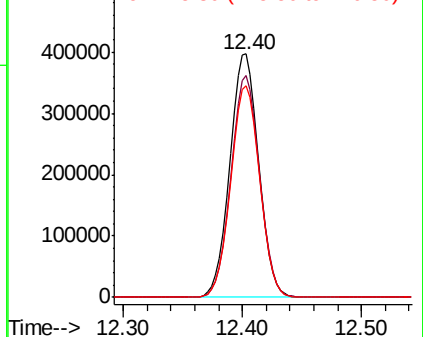
176 87.3 0.0 175.6



Abundance Ion 94.90 (94.60 to 95.60): VN053392.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN053392.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN053392.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

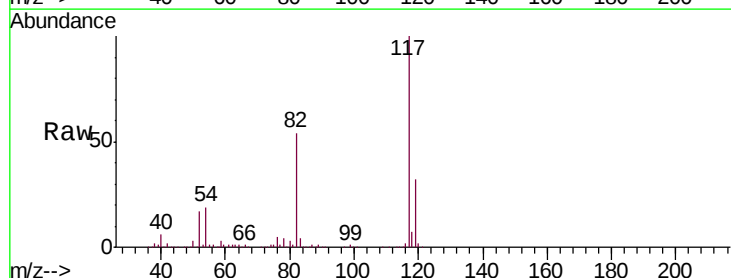
Tgt Ion: 117 Resp: 1449516

Ion Ratio Lower Upper

117 100

82 54.2 42.9 64.3

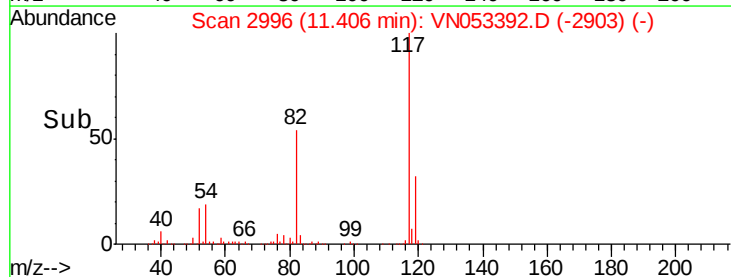
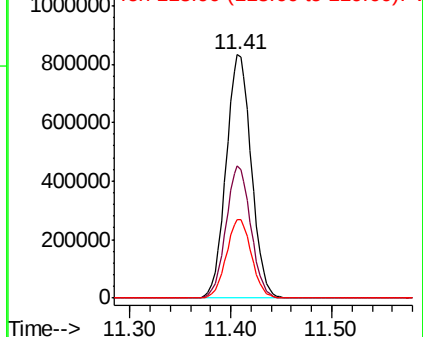
119 32.3 25.6 38.4

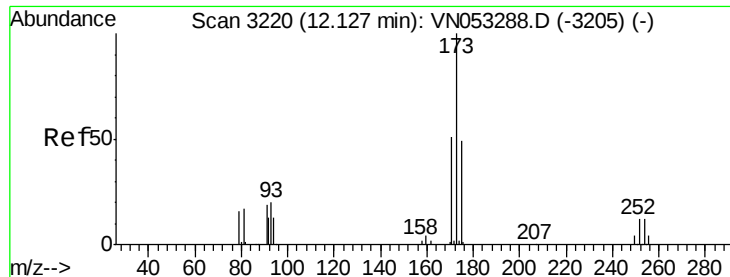


Abundance Ion 116.90 (116.60 to 117.60): VN053392.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053392.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053392.D (-2903) (-)





#71

Bromoform

Concen: 0.547 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB116342ZHE#05

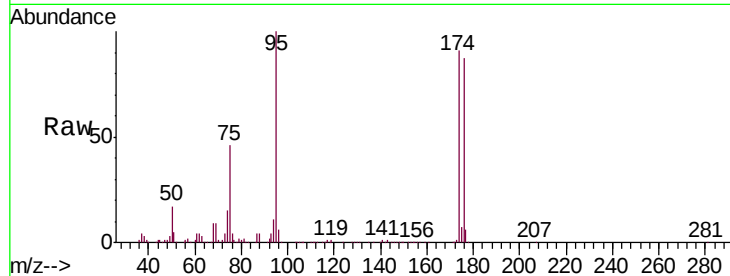
Tgt Ion:173 Resp: 4255

Ion Ratio Lower Upper

173 100

175 883.8 24.3 72.8#

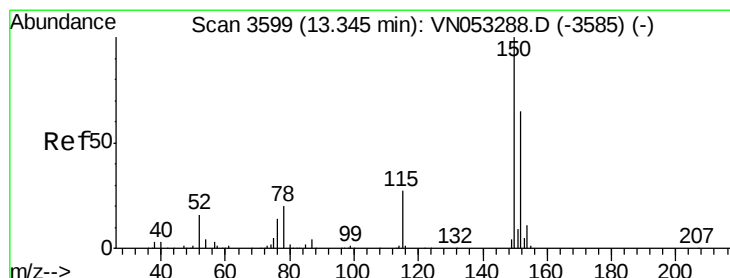
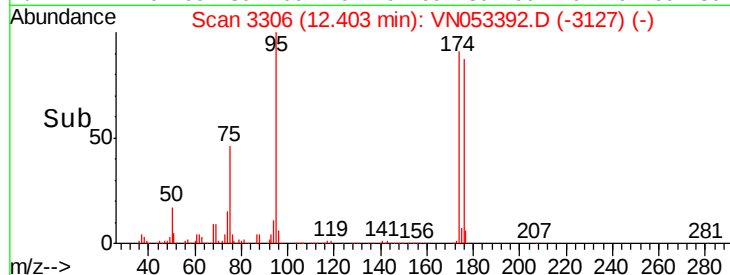
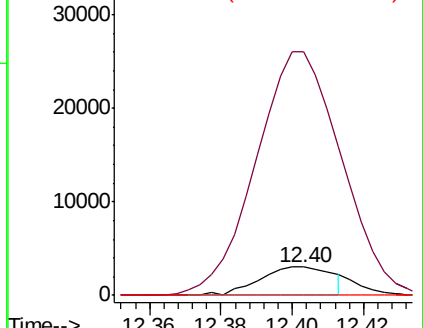
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

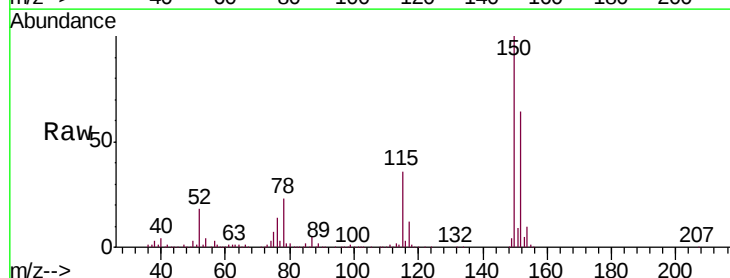
Tgt Ion:152 Resp: 605500

Ion Ratio Lower Upper

152 100

115 55.8 28.0 84.0

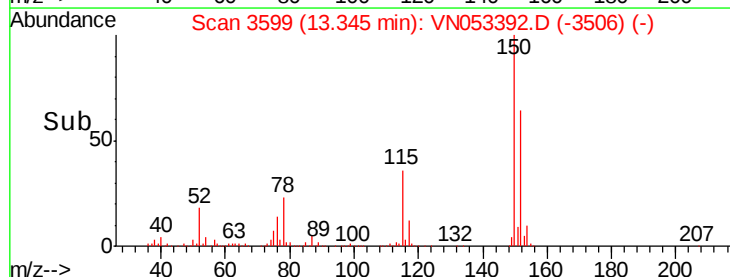
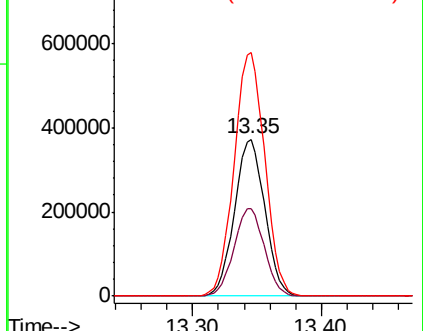
150 157.7 0.0 346.6

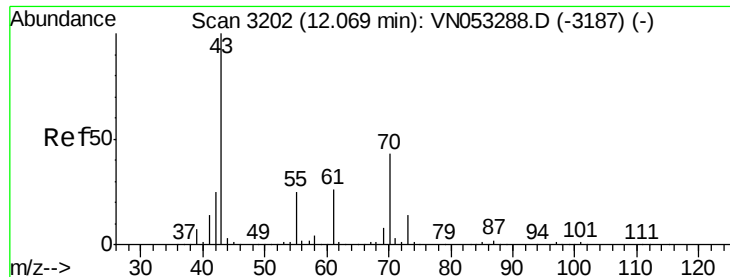


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 2.836 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

PB116342ZHE#05

Tgt Ion: 43 Resp: 38178

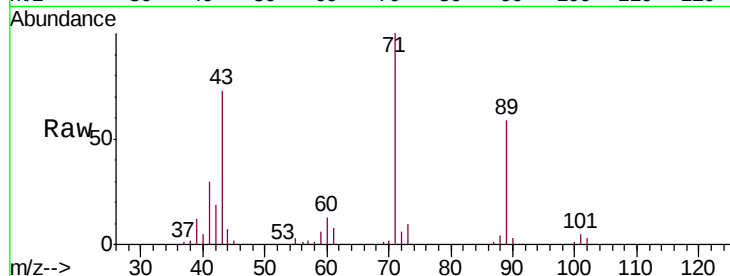
Ion Ratio Lower Upper

43 100

70 2.0 35.0 52.6#

55 4.2 20.0 30.0#

61 11.6 20.3 30.5#

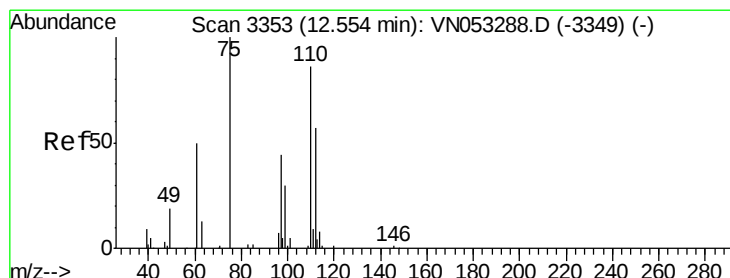
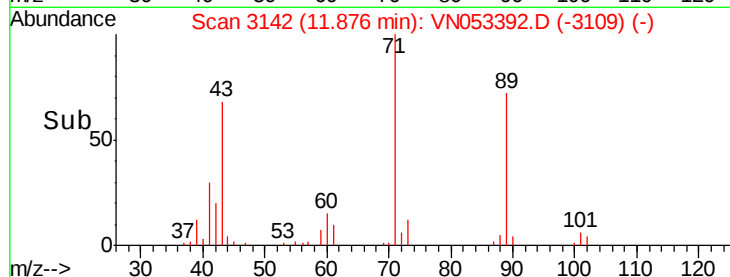
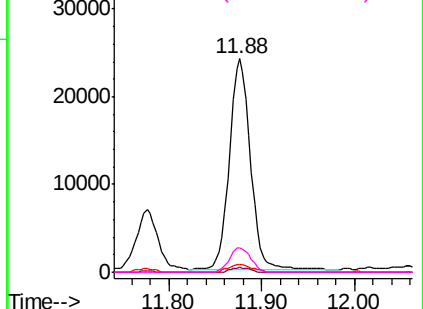


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 34.713 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053392.D

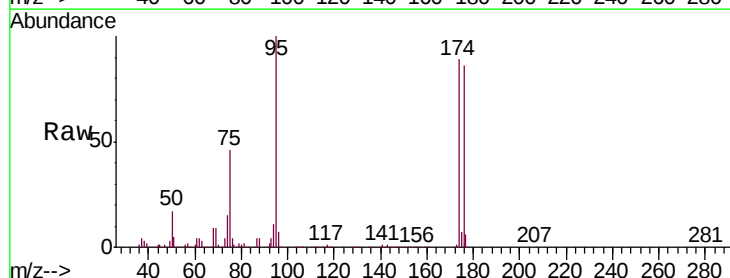
Acq: 14 Jan 2019 15:31

Tgt Ion: 75 Resp: 306573

Ion Ratio Lower Upper

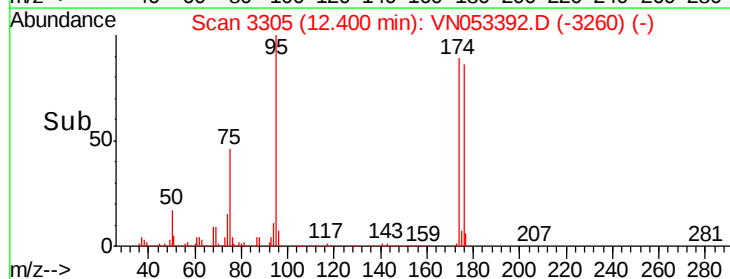
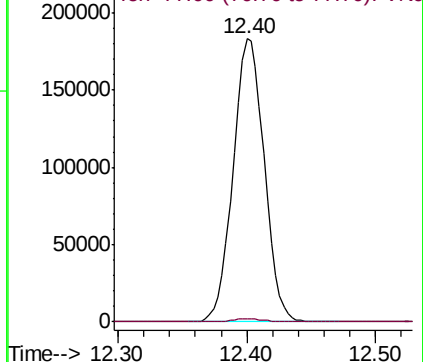
75 100

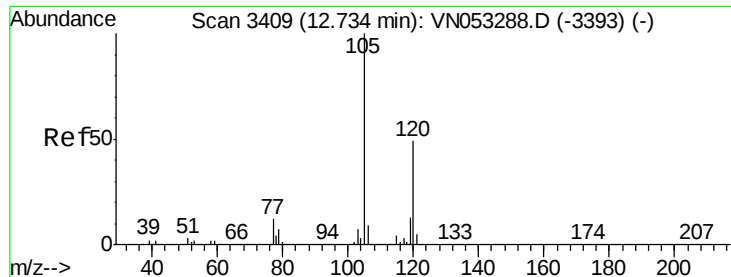
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.293 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Instrument :

MSVOA_N

ClientSampleId :

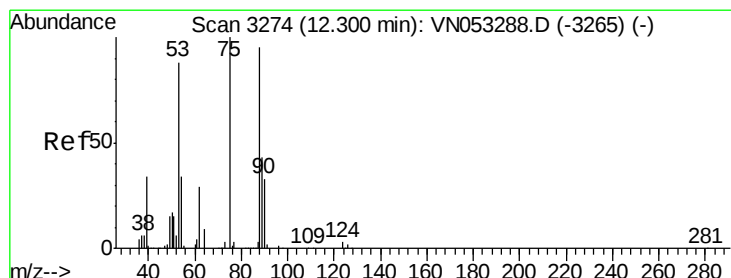
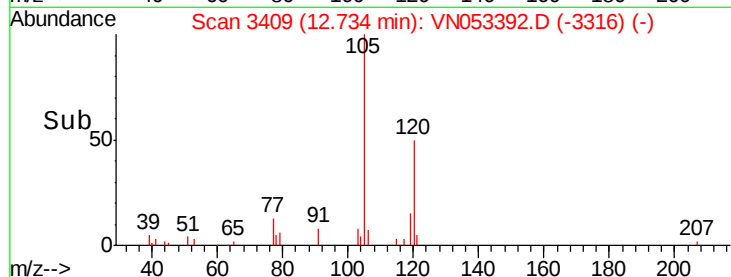
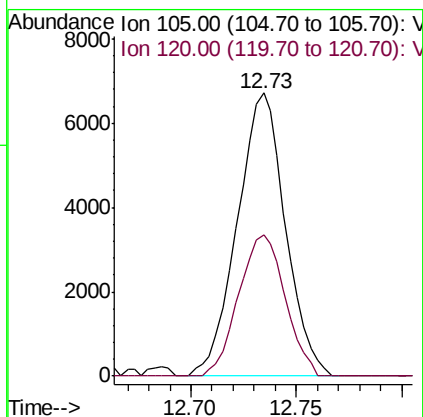
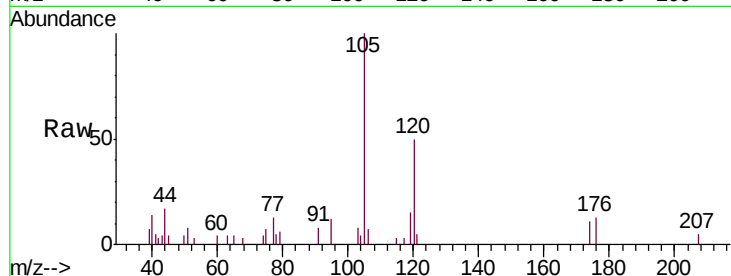
PB116342ZHE#05

Tgt Ion:105 Resp: 10632

Ion Ratio Lower Upper

105 100

120 48.2 24.7 74.1



#81

trans-1,4-Dichloro-2-butene

Concen: 102.133 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053392.D

Acq: 14 Jan 2019 15:31

Tgt Ion: 75 Resp: 306573

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 35.4 53.0#

