

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051021.D
 Acq On : 4 Sep 2018 15:56
 Operator : MD\SY
 Sample : PB112553ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#07

Quant Time: Sep 05 01:09:36 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	609032	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	984219	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	818857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	268764	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	390751	53.29	ug/l	0.00
Spiked Amount			Recovery	=	106.58%	
35) Dibromofluoromethane	7.59	113	377527	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
50) Toluene-d8	10.09	98	1319760	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	
62) 4-Bromofluorobenzene	12.40	95	347209	35.69	ug/l	0.00
Spiked Amount			Recovery	=	71.38%	

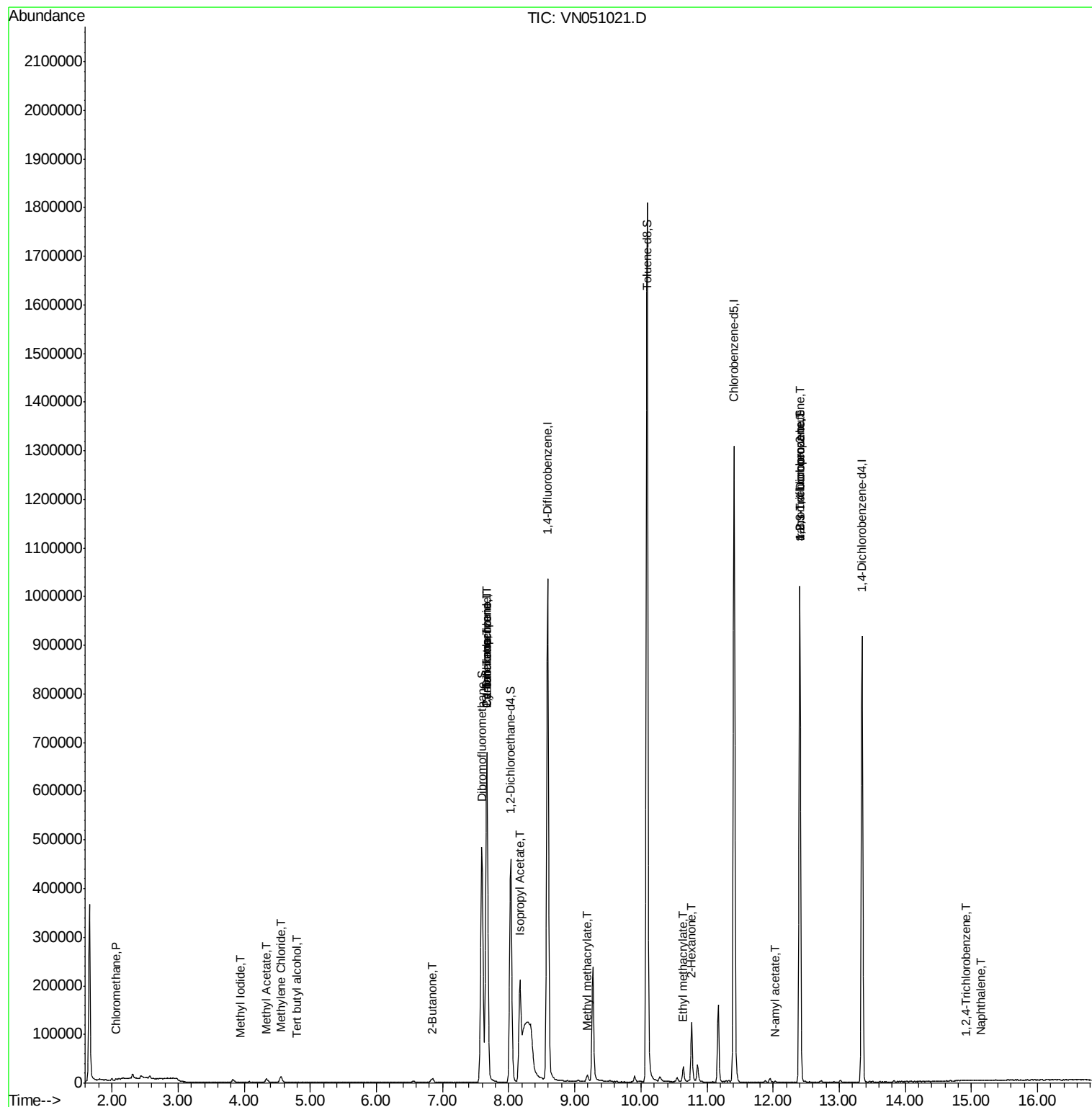
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2270	0.23	ug/l	100
5) Bromomethane	2.57	94	2074	Below	Cal	89
10) Methyl Iodide	3.94	142	138	6.36	ug/l #	43
11) Tert butyl alcohol	4.79	59	637	1.36	ug/l #	72
16) Acetone	3.83	43	10718	Below	Cal	98
18) Methyl Acetate	4.34	43	14131	2.04	ug/l	94
20) Methylene Chloride	4.56	84	9744	1.18	ug/l	93
25) 2-Butanone	6.85	43	7468	2.53	ug/l	97
31) Cyclohexane	7.67	56	10018	1.26	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39418	3.39	ug/l #	48
38) Carbon Tetrachloride	7.67	117	52096	4.44	ug/l #	17
43) Isopropyl Acetate	8.17	43	271708	23.69	ug/l	93
48) Methyl methacrylate	9.19	41	7768	1.33	ug/l #	21
56) Ethyl methacrylate	10.63	69	367	2.38	ug/l #	1
59) 2-Hexanone	10.77	43	18713	4.11	ug/l #	61
74) N-amyl acetate	12.03	43	1120	0.20	ug/l #	40
76) 1,2,3-Trichloropropane	12.40	75	162045	34.42	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	162045	116.37	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	30	4.09	ug/l #	12
95) Naphthalene	15.15	128	147	5.41	ug/l #	69

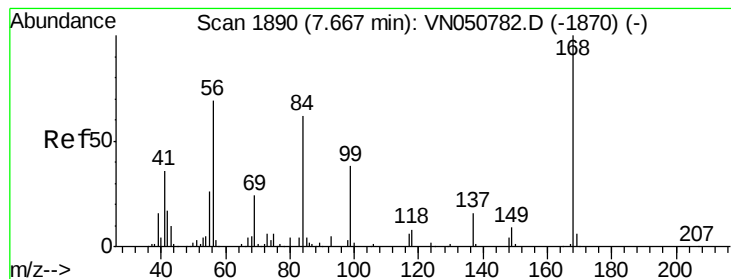
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

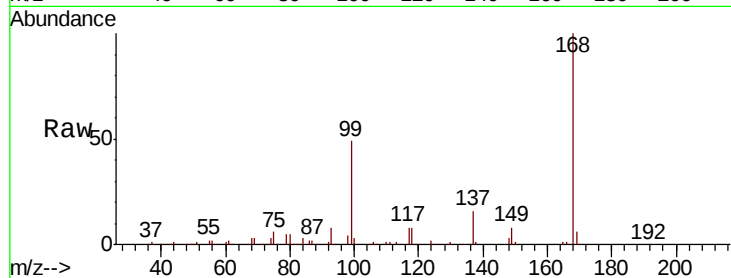
PB112553ZHE#07

Tot Ion:168 Resp: 609032

Ion Ratio Lower Upper

168 100

99 48.7 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

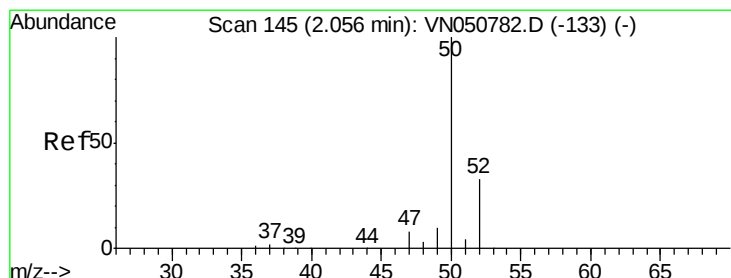
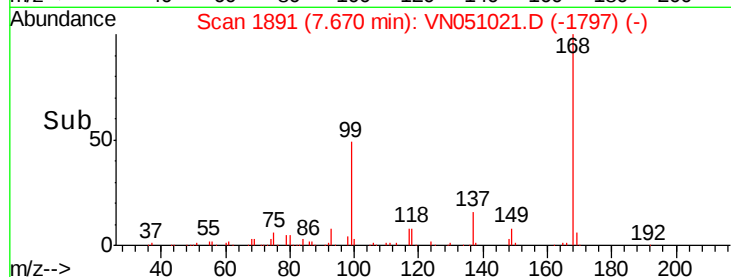
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN051021.D

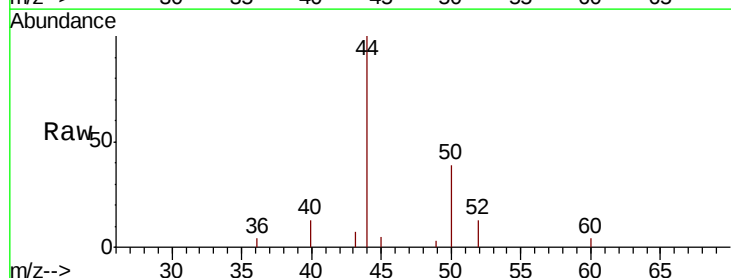
Acq: 4 Sep 2018 15:56

Tgt Ion: 50 Resp: 2270

Ion Ratio Lower Upper

50 100

52 32.9 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

1500

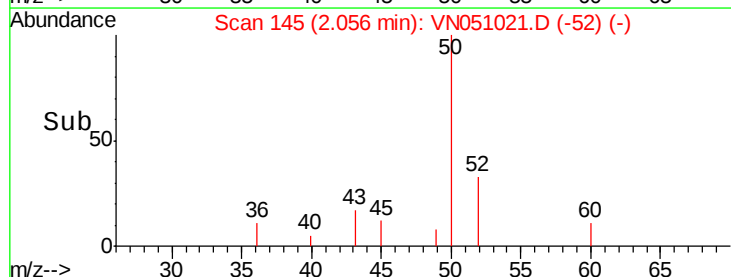
1000

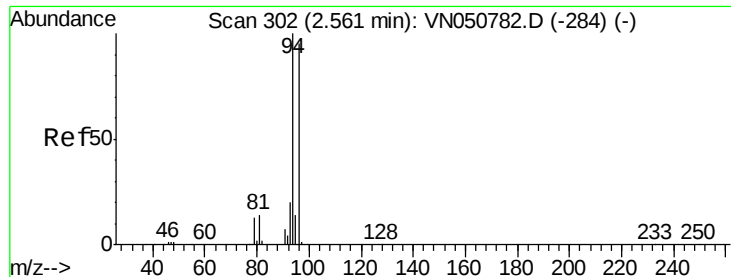
500

0

2.02 2.04 2.06 2.08 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

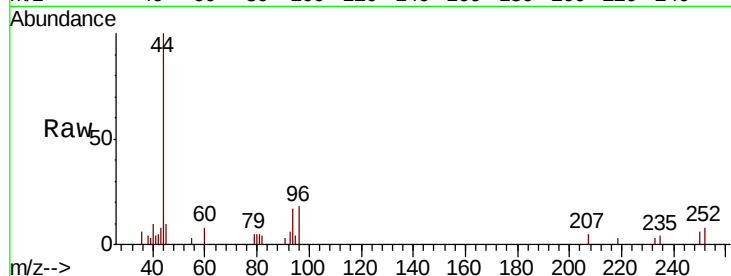
PB112553ZHE#07

Tot Ion: 94 Resp: 2074

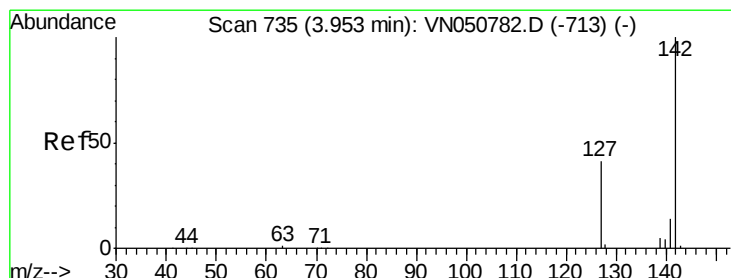
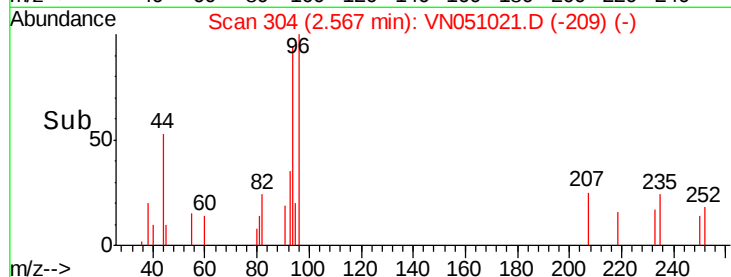
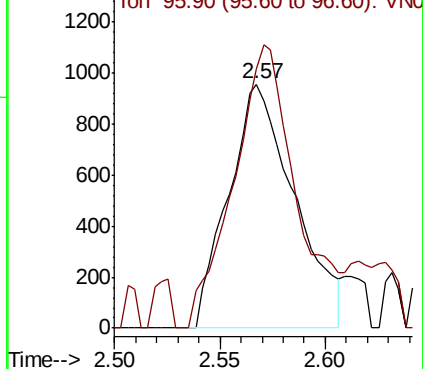
Ion Ratio Lower Upper

94 100

96 106.2 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050782.D (-284) (-)



#10

Methyl Iodide

Concen: 6.36 ug/l

RT: 3.94 min Scan# 731

Delta R.T. -0.01 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

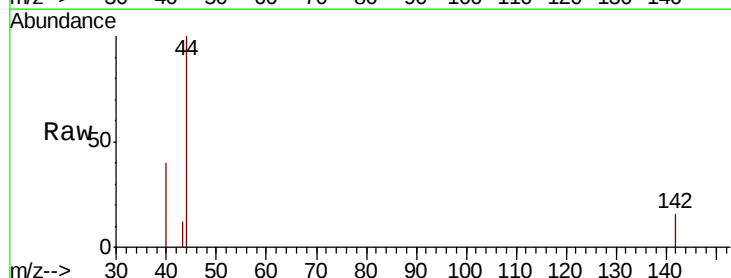
Tgt Ion: 142 Resp: 138

Ion Ratio Lower Upper

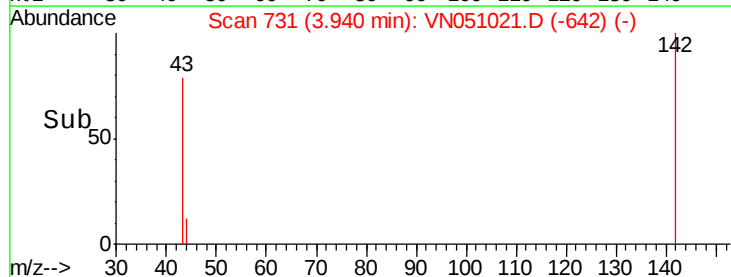
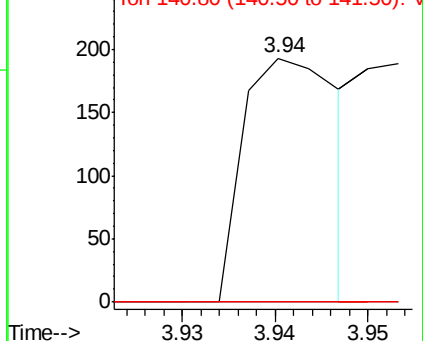
142 100

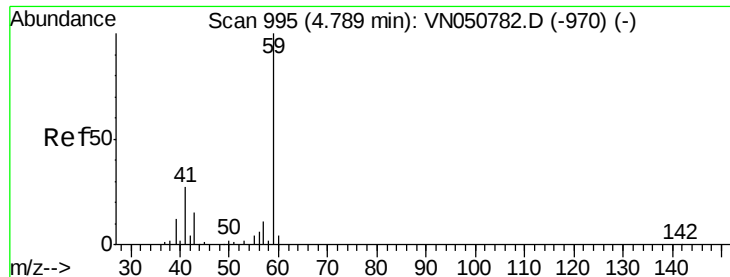
127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050782.D (-713) (-)

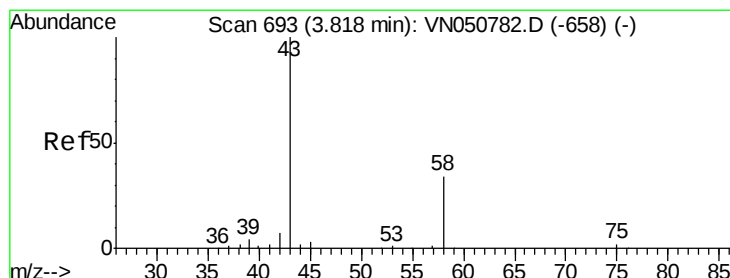
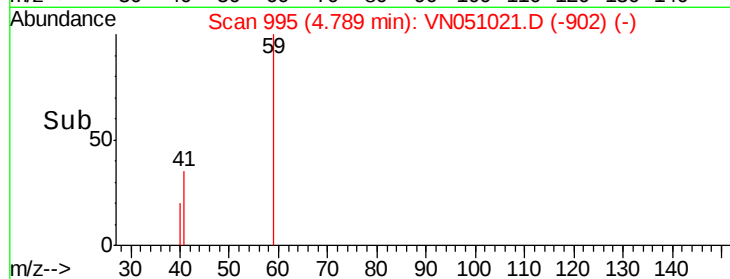
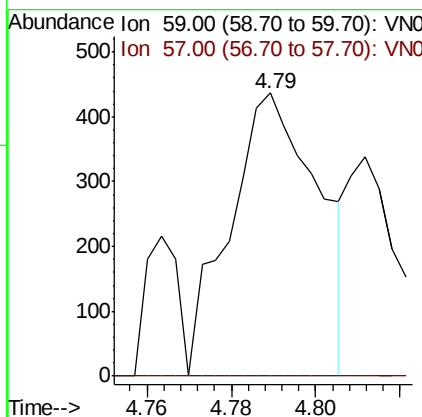
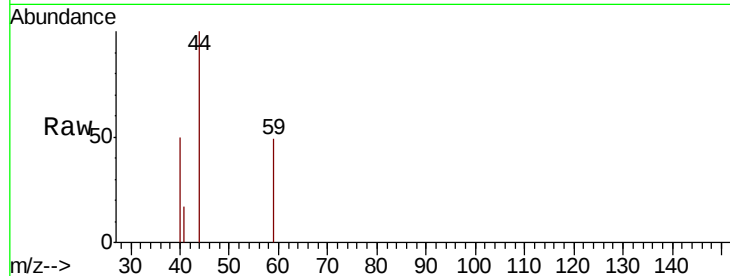




#11
Tert butyl alcohol
Concen: 1.36 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.00 min
Lab File: VN051021.D
Acq: 4 Sep 2018 15:56

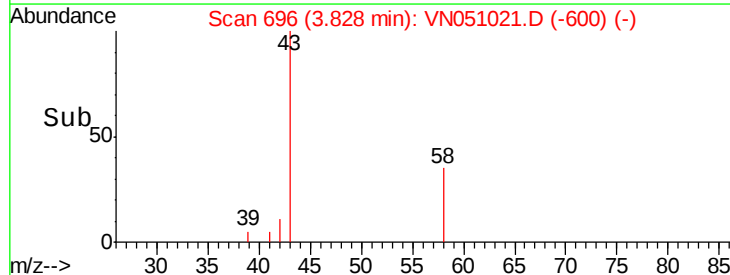
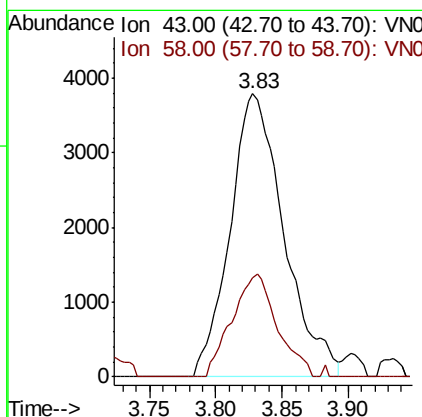
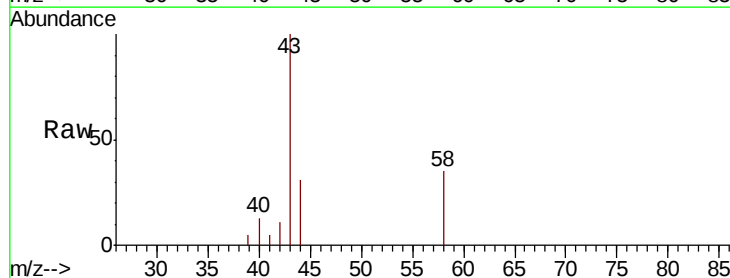
Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#07

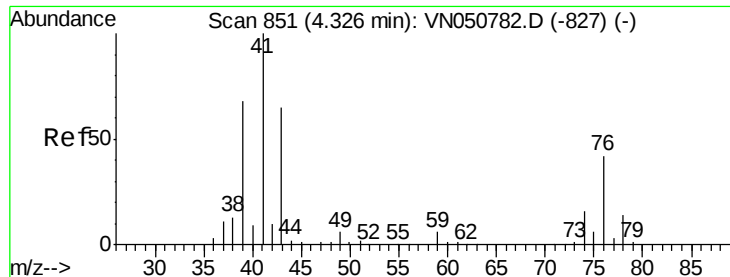
Tot Ion: 59 Resp: 637
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN051021.D
Acq: 4 Sep 2018 15:56

Tgt Ion: 43 Resp: 10718
Ion Ratio Lower Upper
43 100
58 35.0 27.2 40.8





#18

Methyl Acetate

Concen: 2.04 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

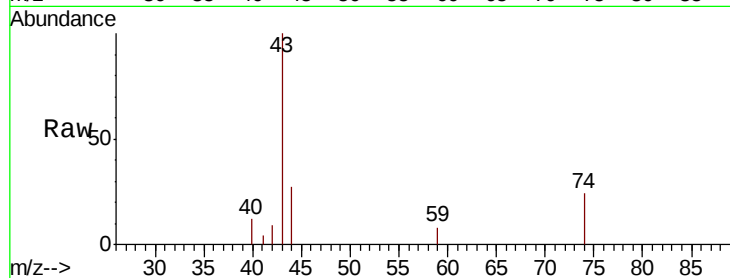
PB112553ZHE#07

Tot Ion: 43 Resp: 14131

Ion Ratio Lower Upper

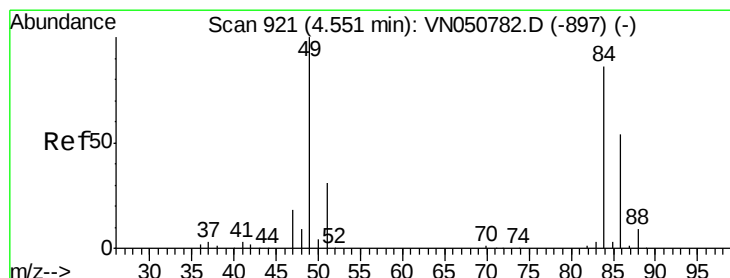
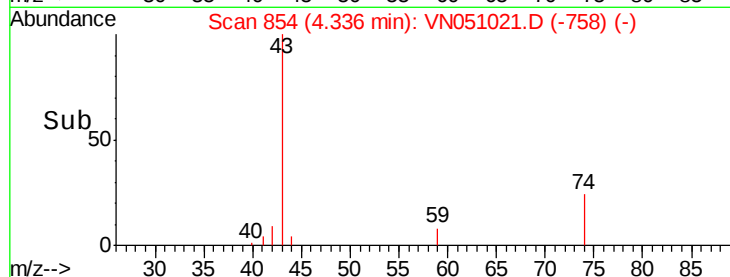
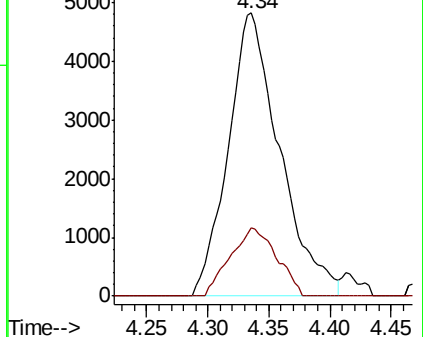
43 100

74 21.7 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN051021.D (-758) (-)

Ion 74.00 (73.70 to 74.70): VN051021.D (-758) (-)



#20

Methylene Chloride

Concen: 1.18 ug/l

RT: 4.56 min Scan# 923

Delta R.T. 0.01 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Tgt Ion: 84 Resp: 9744

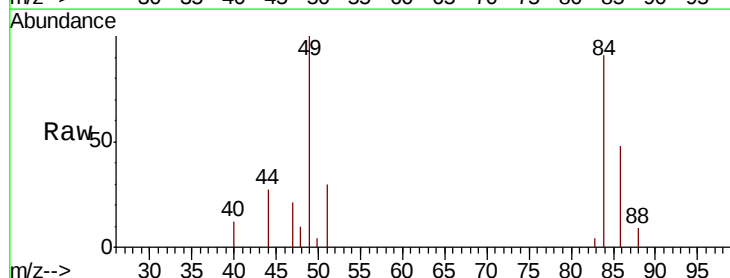
Ion Ratio Lower Upper

84 100

49 110.2 93.2 139.8

51 33.3 29.0 43.6

86 53.1 49.8 74.8

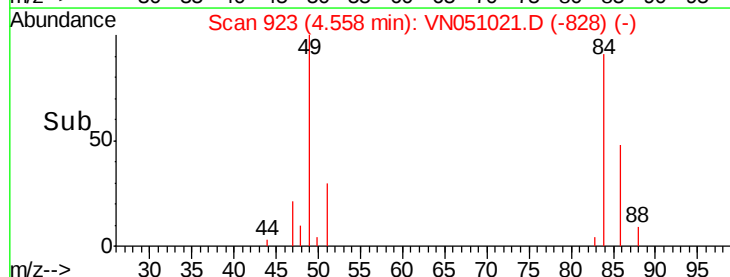
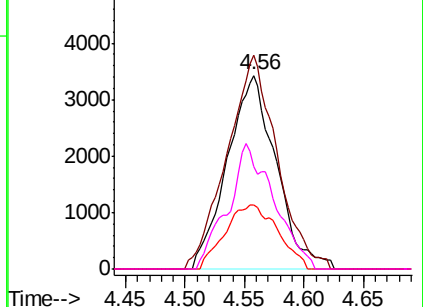


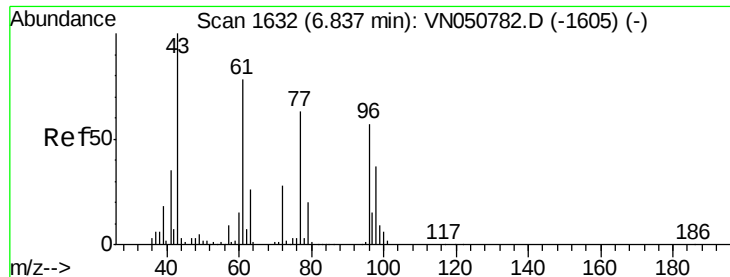
Abundance Ion 83.90 (83.60 to 84.60): VN051021.D (-828) (-)

Ion 48.90 (48.60 to 49.60): VN051021.D (-828) (-)

Ion 50.90 (50.60 to 51.60): VN051021.D (-828) (-)

Ion 85.90 (85.60 to 86.60): VN051021.D (-828) (-)

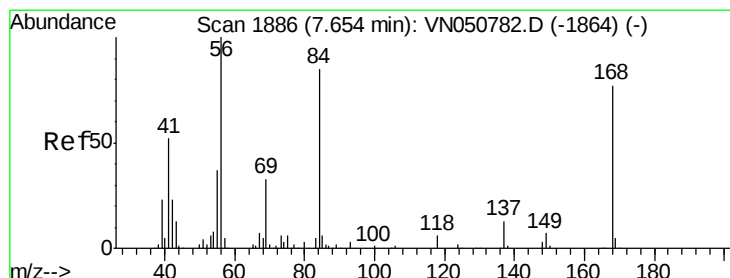
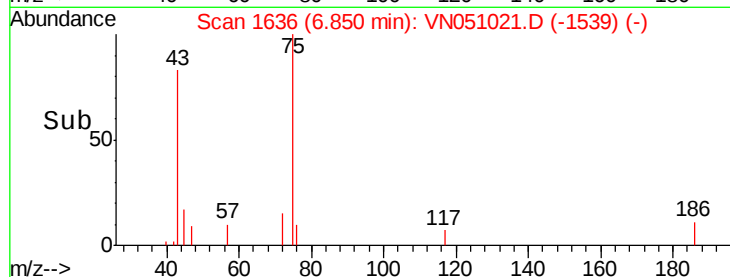
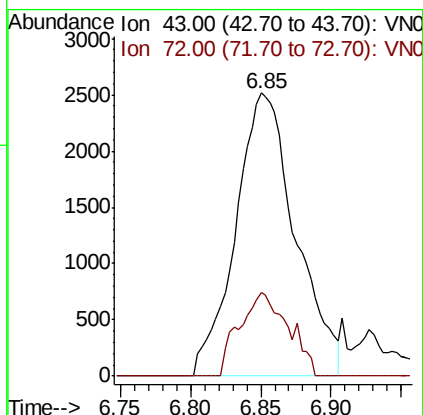
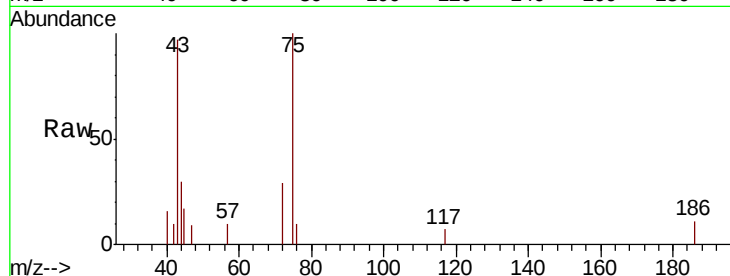




#25
2-Butanone
Concen: 2.53 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN051021.D
Acq: 4 Sep 2018 15:56

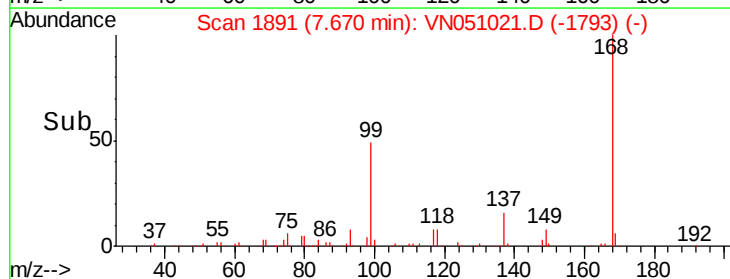
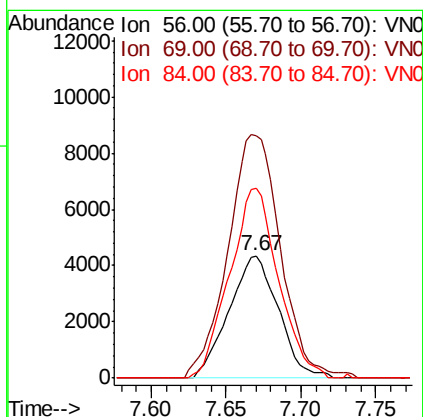
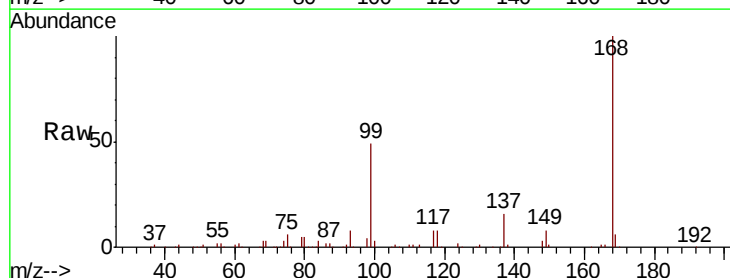
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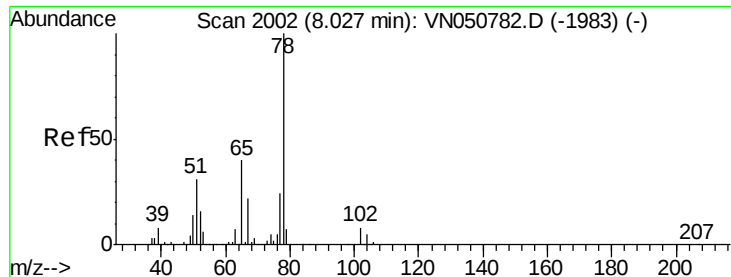
Tot Ion: 43 Resp: 7468
Ion Ratio Lower Upper
43 100
72 29.5 22.3 33.5



#31
Cyclohexane
Concen: 1.26 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN051021.D
Acq: 4 Sep 2018 15:56

Tgt Ion: 56 Resp: 10018
Ion Ratio Lower Upper
56 100
69 193.6 26.2 39.4#
84 154.8 68.3 102.5#





#33

1,2-Dichloroethane-d4

Concen: 53.29 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

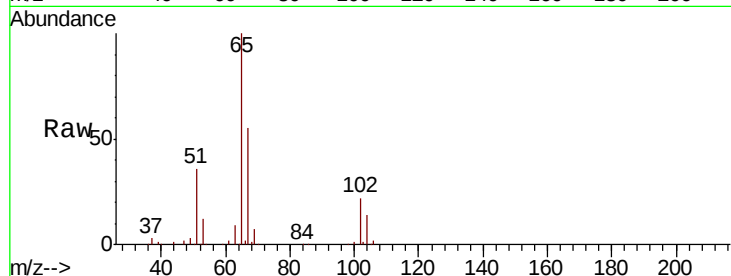
PB112553ZHE#07

Tot Ion: 65 Resp: 390751

Ion Ratio Lower Upper

65 100

67 54.6 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

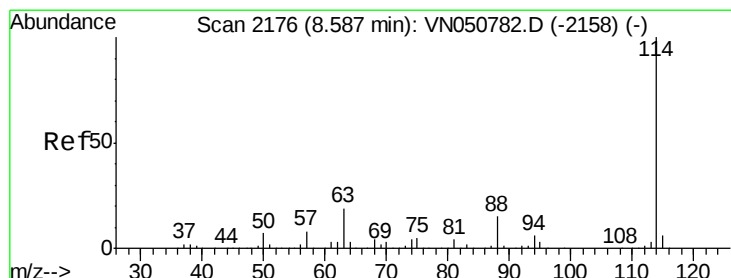
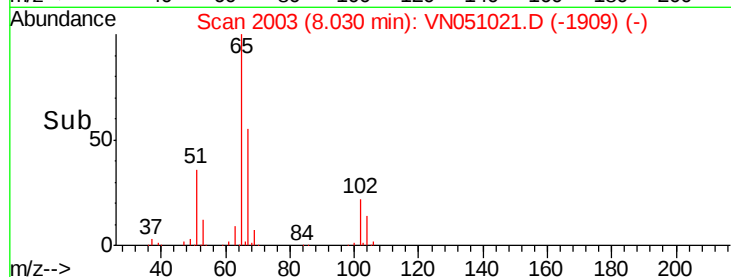
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

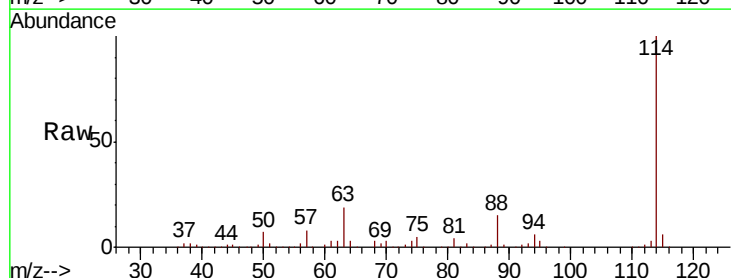
Tgt Ion: 114 Resp: 984219

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.6

88 15.2 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

600000

500000

400000

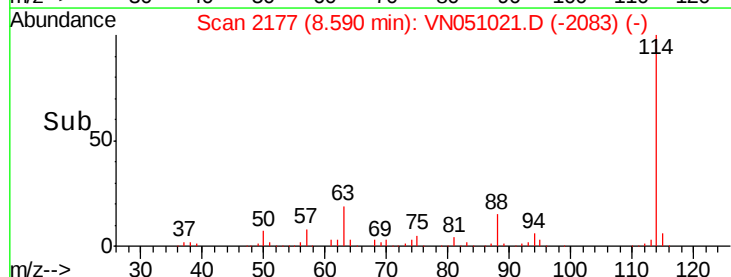
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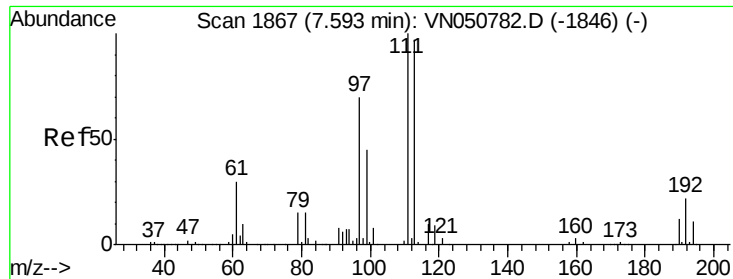
200000

100000

0

Time--> 8.50 8.60 8.70 8.80

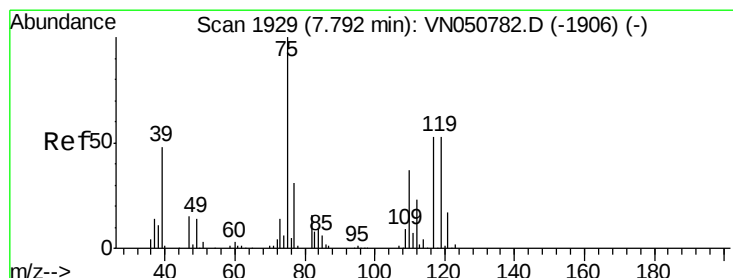
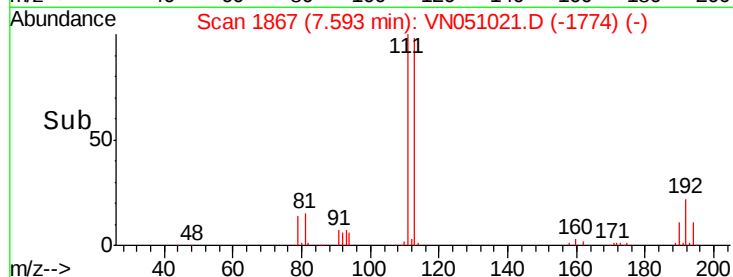
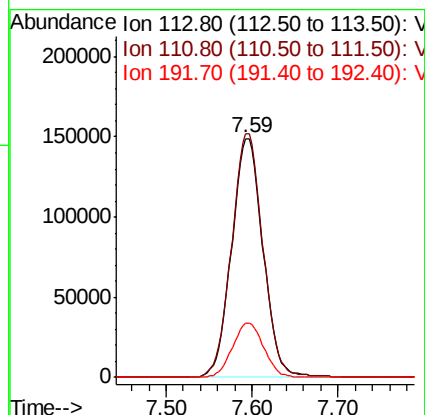
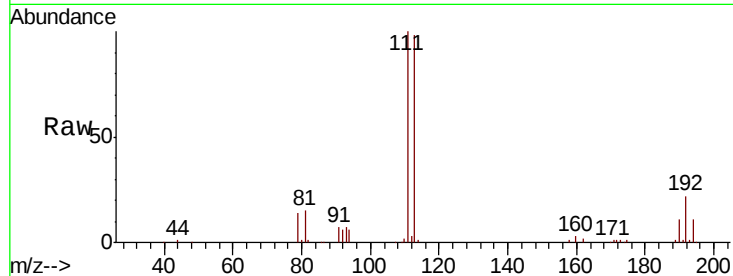




#35
 Dibromofluoromethane
 Concen: 48.22 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN051021.D
 Acq: 4 Sep 2018 15:56

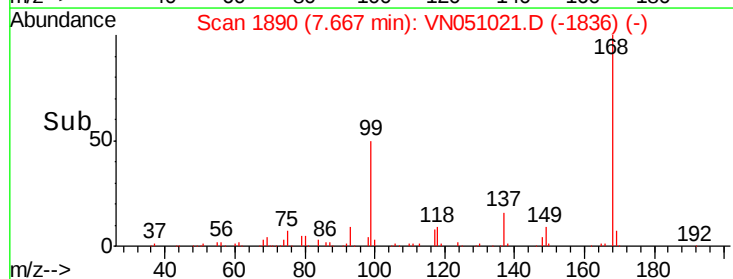
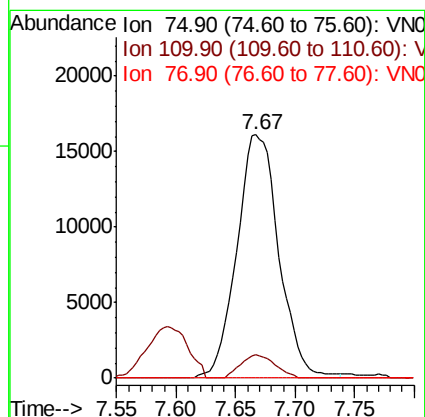
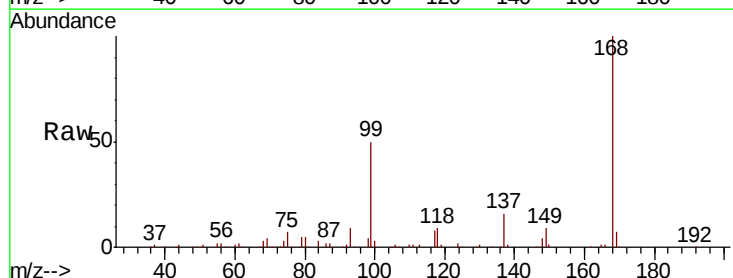
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#07

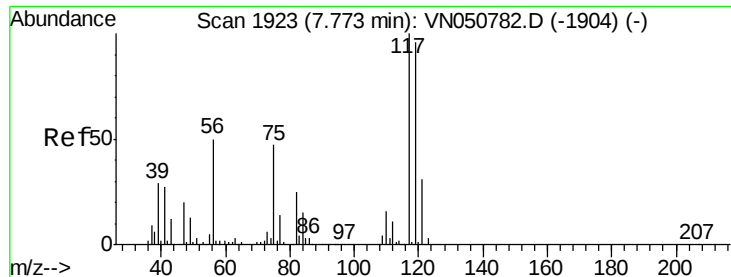
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.6	123.8
192	22.7	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.39 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN051021.D
 Acq: 4 Sep 2018 15:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.1	54.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 4.44 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.10 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#07

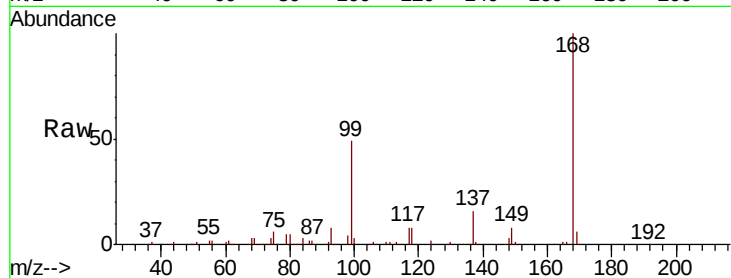
Tot Ion:117 Resp: 52096

Ion Ratio Lower Upper

117 100

119 5.6 76.3 114.5#

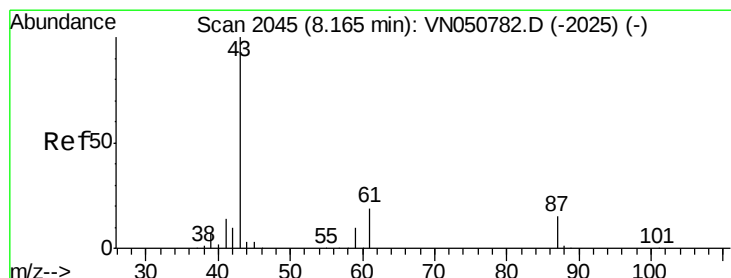
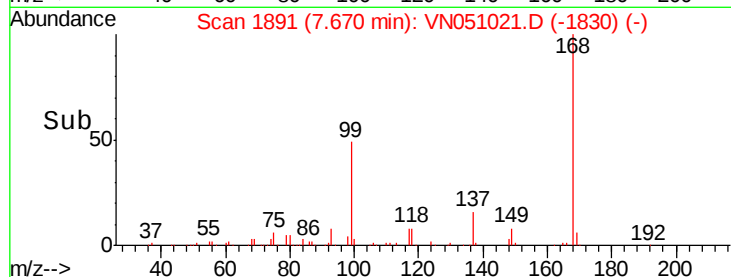
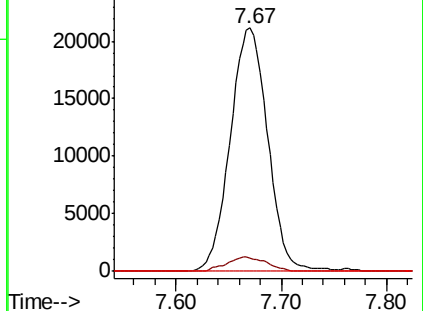
121 0.0 24.6 36.8#



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: 23.69 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

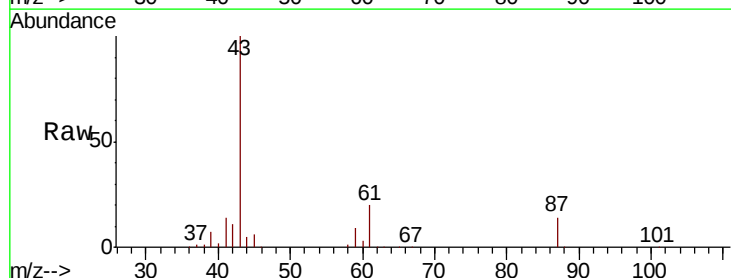
Tgt Ion: 43 Resp: 271708

Ion Ratio Lower Upper

43 100

61 18.0 17.5 26.3

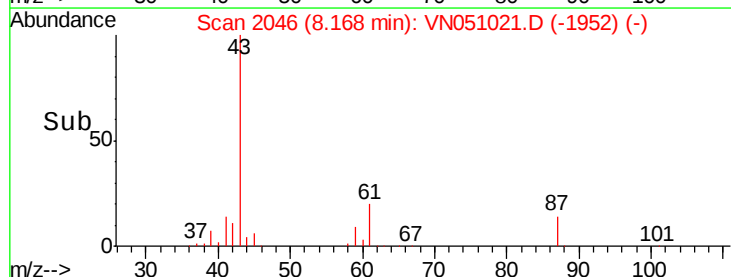
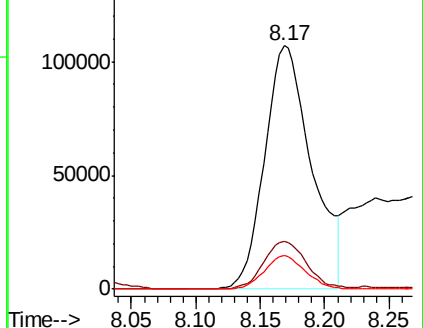
87 11.9 11.3 16.9

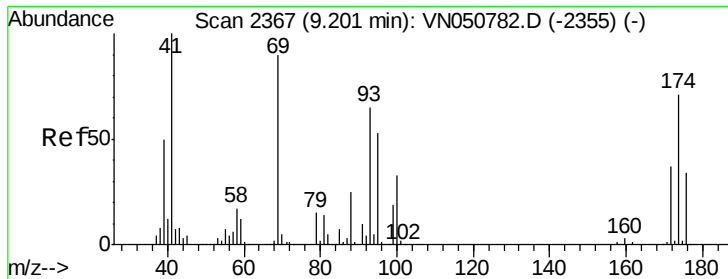


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

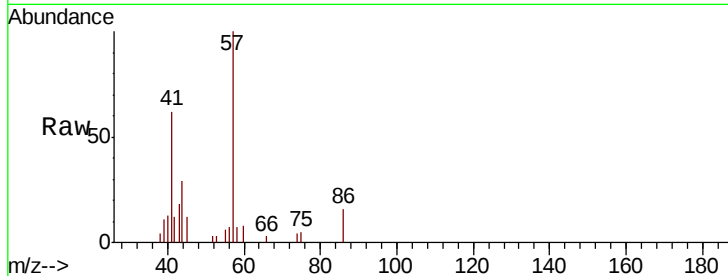




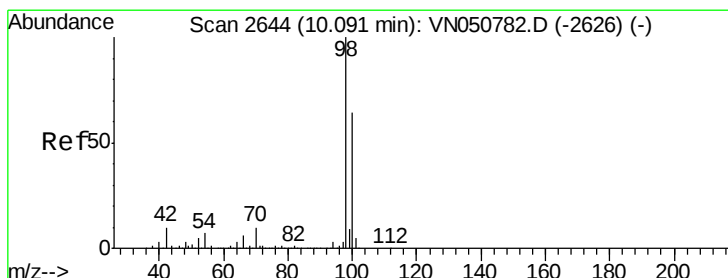
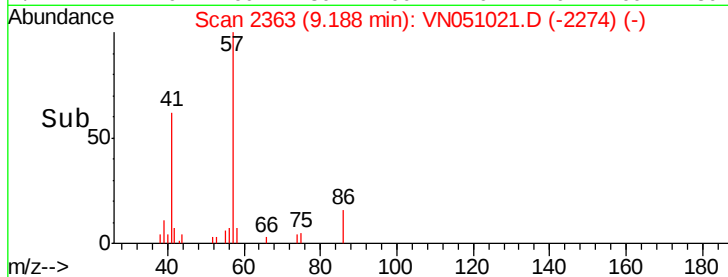
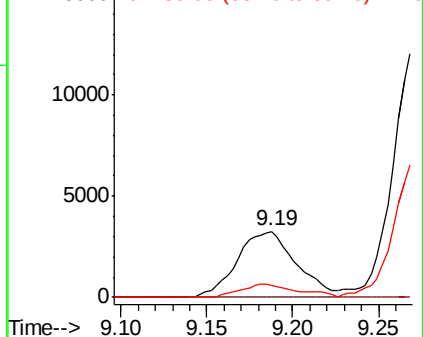
#48
Methvl methacrylate
Concen: 1.33 ug/l
RT: 9.19 min Scan# 2363
Delta R.T. -0.01 min
Lab File: VN051021.D
Acq: 4 Sep 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
PB112553ZHE#07

Tot Ion: 41 Resp: 7768
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 19.4 42.2 63.2#

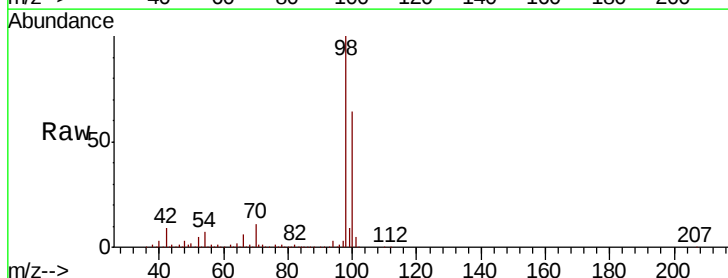


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

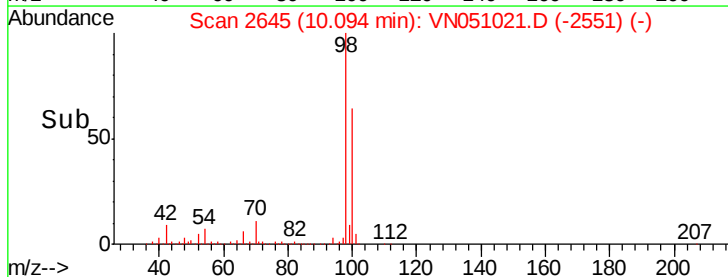
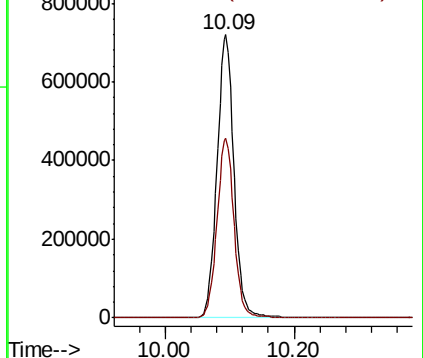


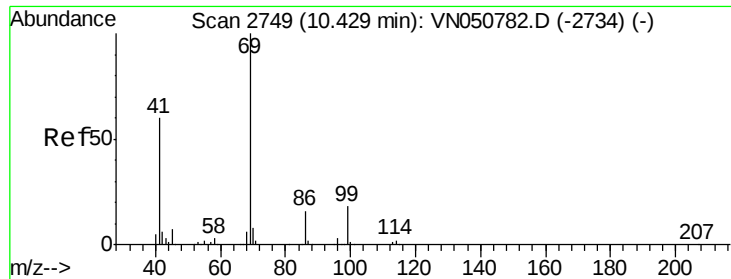
#50
Toluene-d8
Concen: 45.08 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN051021.D
Acq: 4 Sep 2018 15:56

Tgt Ion: 98 Resp: 1319760
Ion Ratio Lower Upper
98 100
100 63.9 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#56

Ethyl methacrylate

Concen: 2.38 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.21 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#07

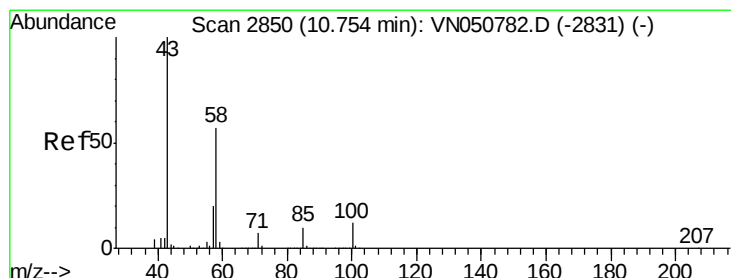
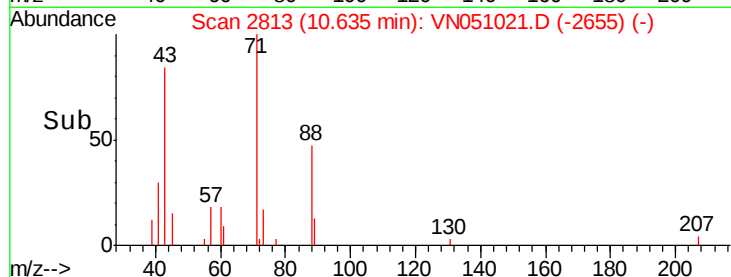
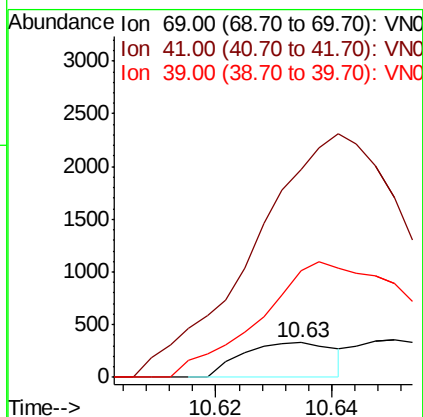
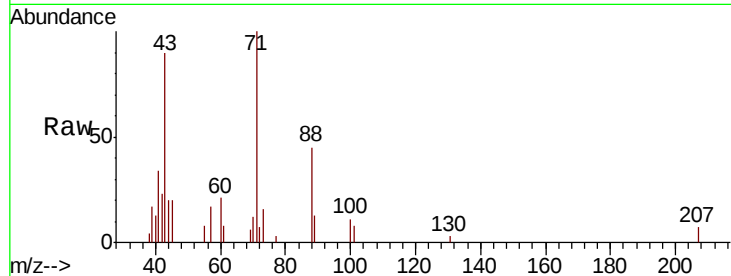
Tot Ion: 69 Resp: 367

Ion Ratio Lower Upper

69 100

41 1311.2 48.3 72.5#

39 601.4 24.0 36.0#



#59

2-Hexanone

Concen: 4.11 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN051021.D

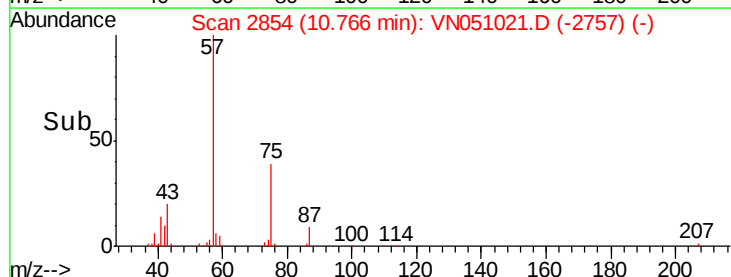
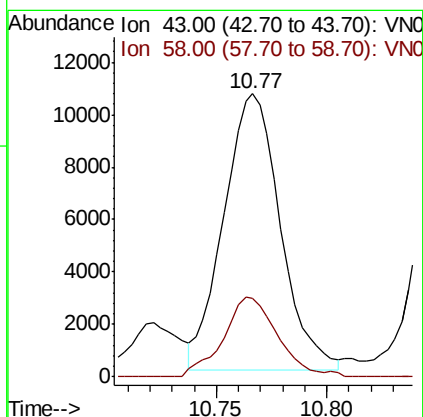
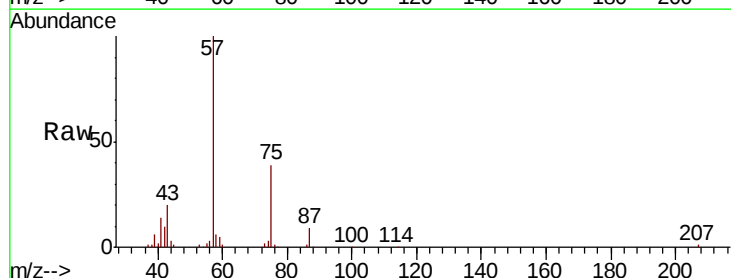
Acq: 4 Sep 2018 15:56

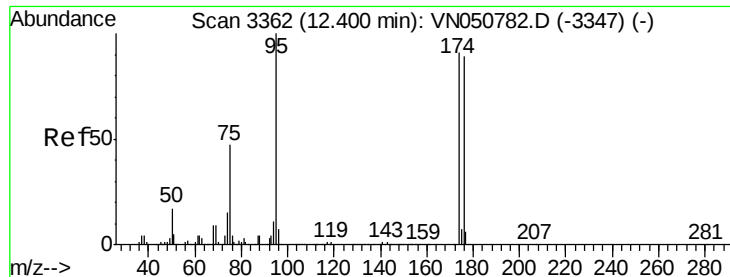
Tgt Ion: 43 Resp: 18713

Ion Ratio Lower Upper

43 100

58 28.0 28.3 85.0#





#62

4-Bromofluorobenzene

Concen: 35.69 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#07

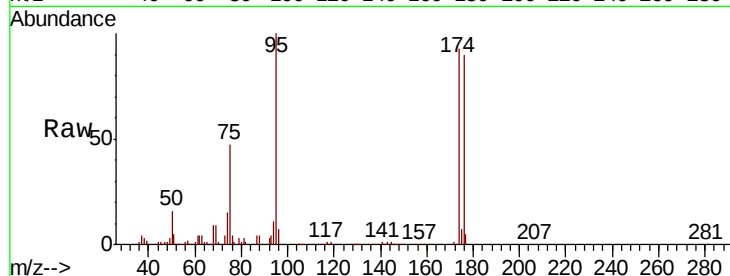
Tot Ion: 95 Resp: 347209

Ion Ratio Lower Upper

95 100

174 94.3 0.0 183.0

176 90.4 0.0 178.8

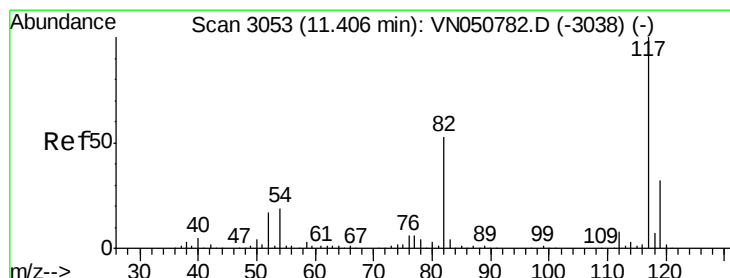
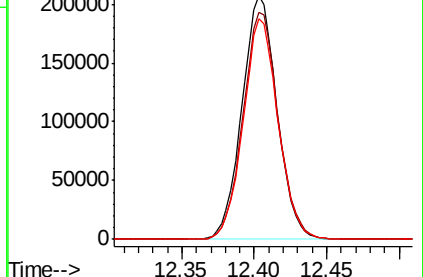
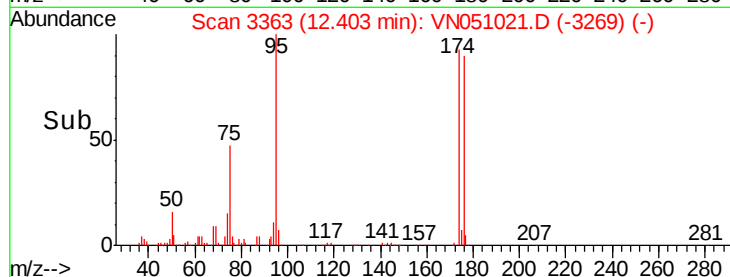


Abundance Ion 94.90 (94.60 to 95.60): VN050782.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN050782.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN050782.D (-3347) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

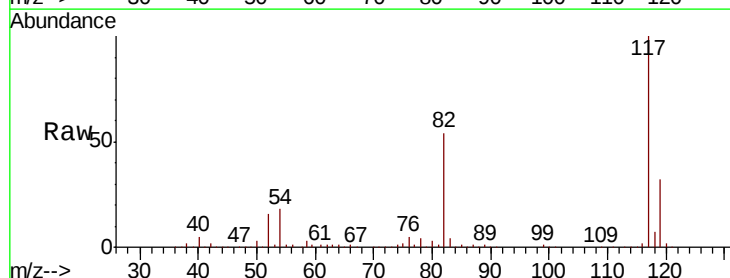
Tgt Ion: 117 Resp: 818857

Ion Ratio Lower Upper

117 100

82 53.9 42.6 64.0

119 32.2 25.8 38.6

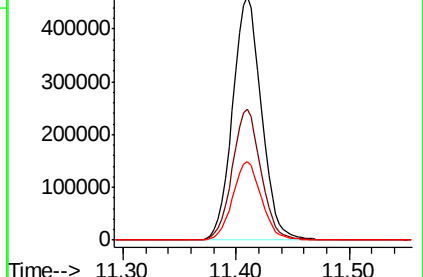
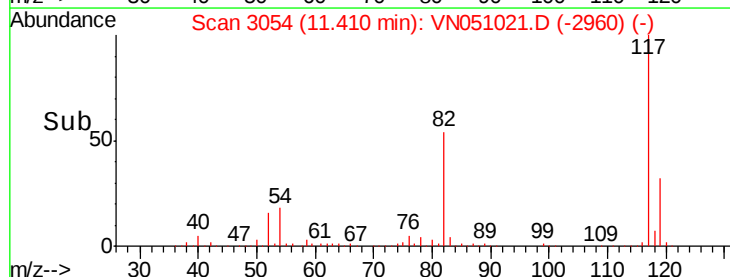


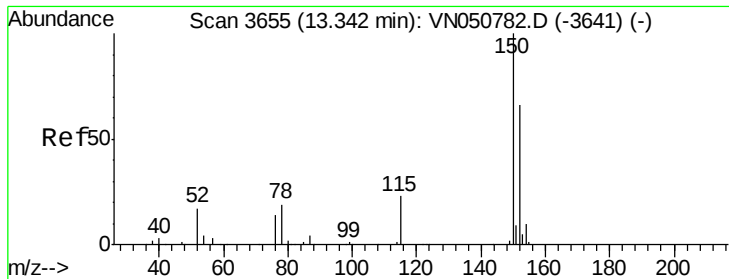
Abundance Ion 116.90 (116.60 to 117.60): VN050782.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050782.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050782.D (-3038) (-)

11.41





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB112553ZHE#07

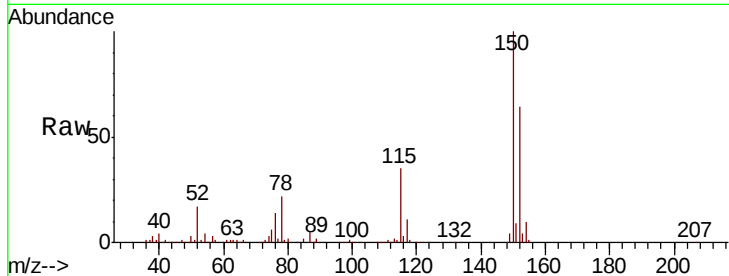
Tot Ion:152 Resp: 268764

Ion Ratio Lower Upper

152 100

115 54.8 27.8 83.4

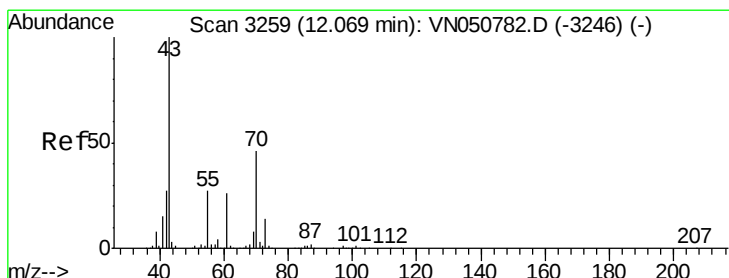
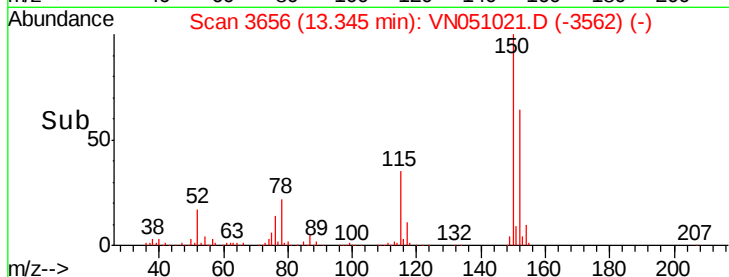
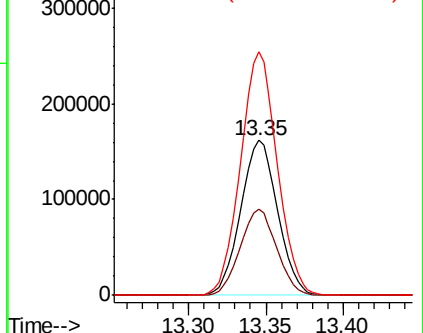
150 155.9 0.0 351.4



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



#74

N-ethyl acetate

Concen: 0.20 ug/l

RT: 12.03 min Scan# 3246

Delta R.T. -0.04 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Tgt Ion: 43 Resp: 1120

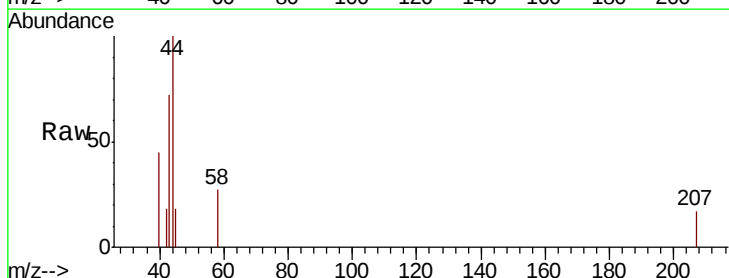
Ion Ratio Lower Upper

43 100

70 0.0 36.2 54.2#

55 0.0 21.8 32.8#

61 0.0 20.5 30.7#

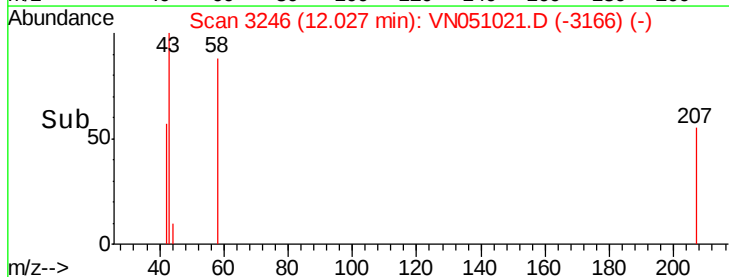
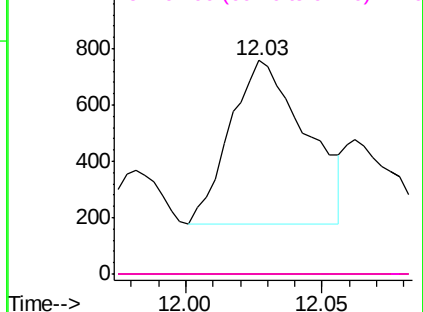


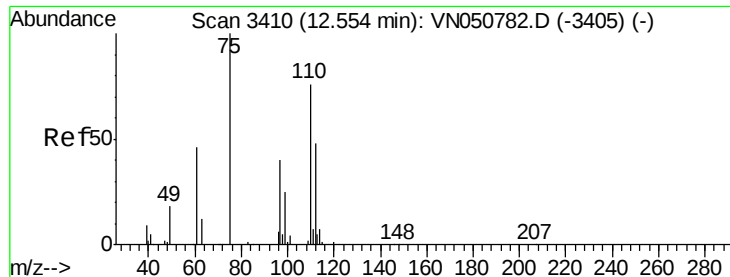
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 34.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

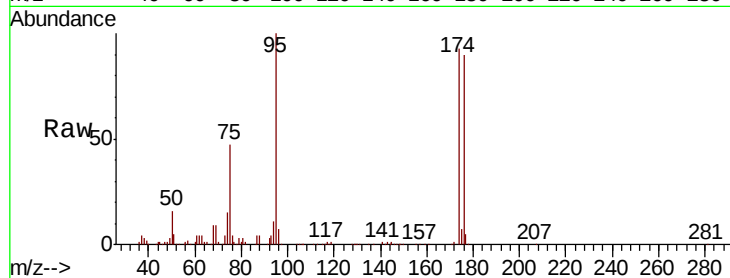
PB112553ZHE#07

Tot Ion: 75 Resp: 162045

Ion Ratio Lower Upper

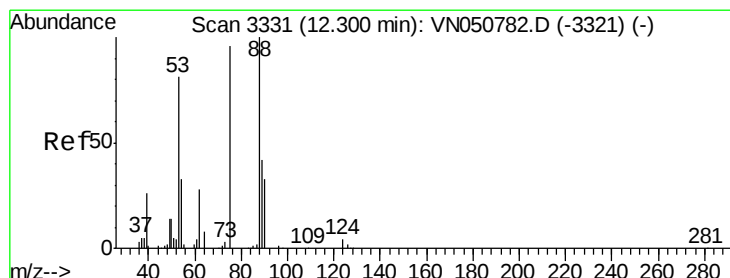
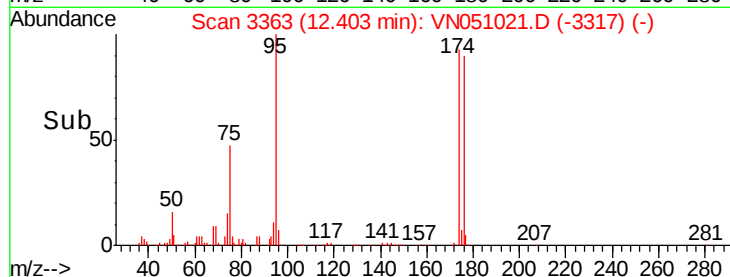
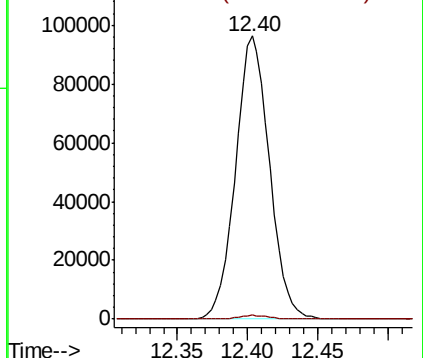
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 116.37 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN051021.D

Acq: 4 Sep 2018 15:56

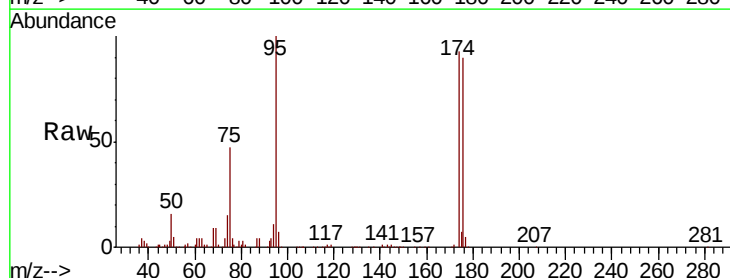
Tgt Ion: 75 Resp: 162045

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

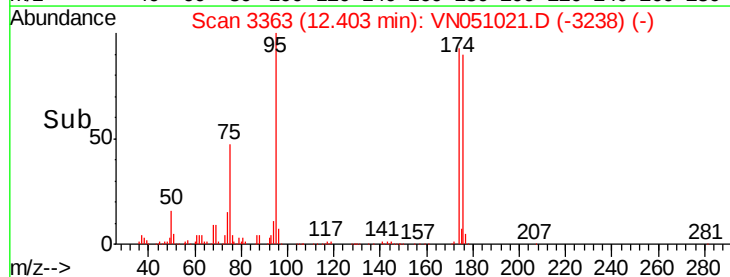
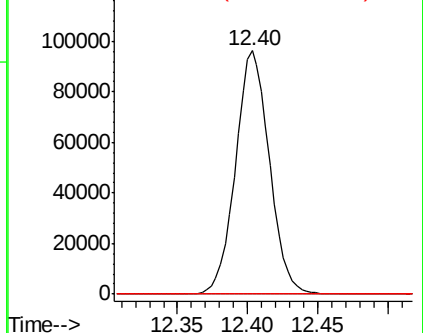
89 0.0 36.1 54.1#

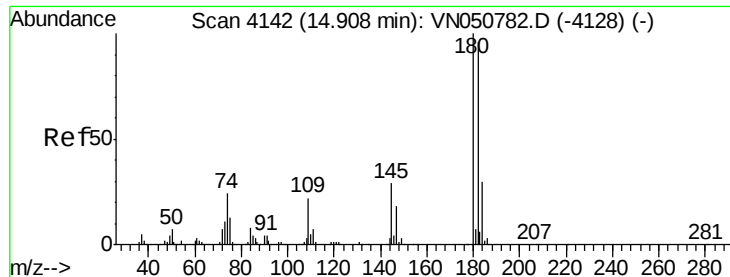


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

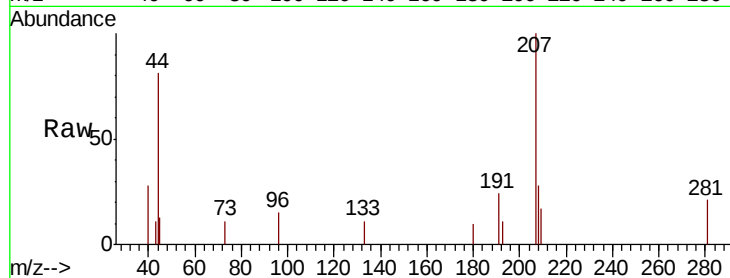




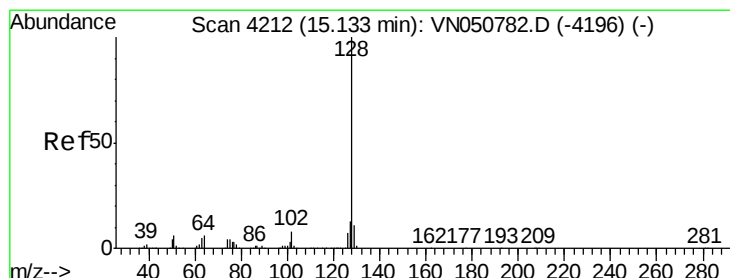
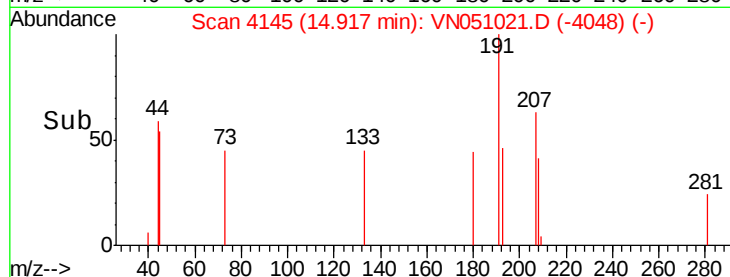
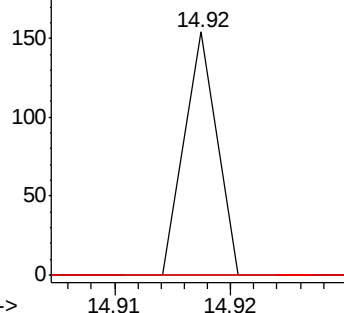
#93
 1,2,4-Trichlorobenzene
 Concen: 4.09 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.01 min
 Lab File: VN051021.D
 Acq: 4 Sep 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112553ZHE#07

Tot Ion:180 Resp: 30
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.2 144.6#
 145 0.0 14.1 42.2#

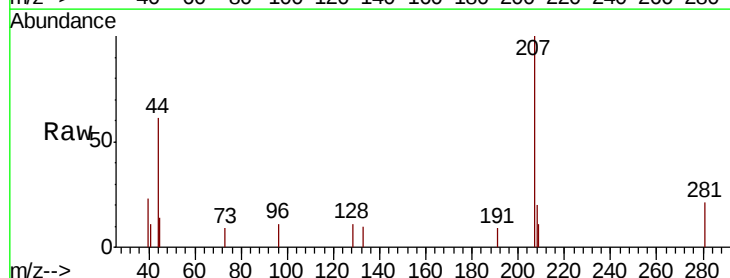


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 5.41 ug/l
 RT: 15.15 min Scan# 4216
 Delta R.T. 0.01 min
 Lab File: VN051021.D
 Acq: 4 Sep 2018 15:56

Tgt Ion:128 Resp: 147
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

