

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101018\
 Data File : VN051793.D
 Acq On : 10 Oct 2018 16:09
 Operator : MD\SY
 Sample : PB113684ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#04

Quant Time: Oct 11 01:58:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

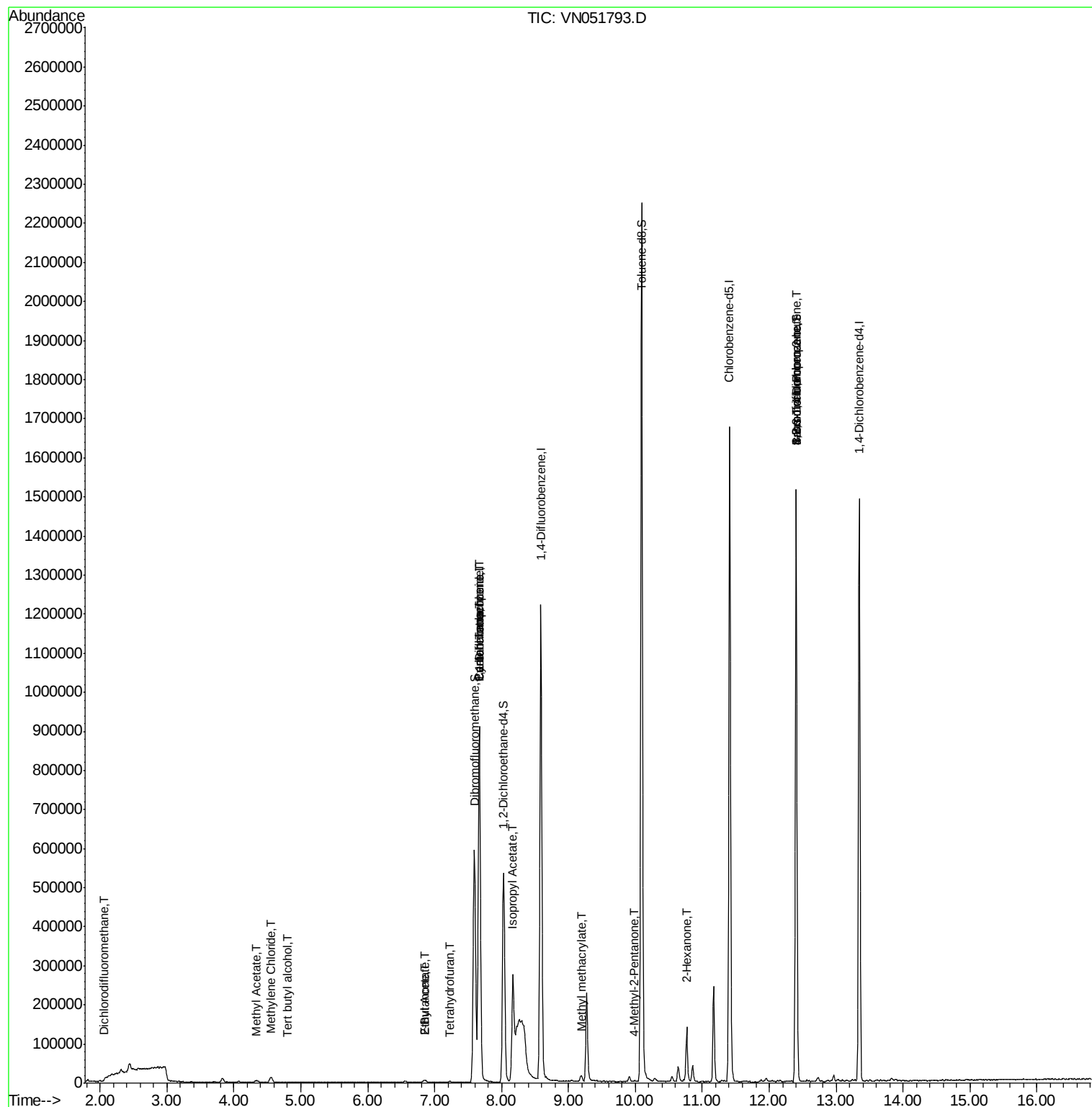
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	814423	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1175786	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1047618	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	416191	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	468858	43.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.16%	
35) Dibromofluoromethane	7.59	113	437986	48.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.36%	
50) Toluene-d8	10.09	98	1666192	49.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.26%	
62) 4-Bromofluorobenzene	12.40	95	488406	40.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	81.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.05	85	30	1.152	ug/l #	42
11) Tert butyl alcohol	4.79	59	327	0.447	ug/l #	73
13) Acrolein	3.58	56	31	Below Cal	#	14
16) Acetone	3.82	43	18315	Below Cal		94
18) Methyl Acetate	4.33	43	3618	0.609	ug/l #	47
20) Methylene Chloride	4.56	84	10764	1.216	ug/l	87
25) 2-Butanone	6.86	43	8574	2.760	ug/l #	72
29) Tetrahydrofuran	7.22	42	918	0.482	ug/l #	86
31) Cyclohexane	7.67	56	14944	1.023	ug/l #	43
36) 1,1-Dichloropropene	7.67	75	51587	4.198	ug/l #	49
37) Ethyl Acetate	6.86	43	8574	1.338	ug/l #	69
38) Carbon Tetrachloride	7.67	117	72382	4.908	ug/l #	15
43) Isopropyl Acetate	8.17	43	351586	26.309	ug/l	95
48) Methyl methacrylate	9.18	41	8576	1.404	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1627	0.240	ug/l #	77
59) 2-Hexanone	10.77	43	20378	4.431	ug/l #	57
71) Bromoform	12.40	173	3651	0.472	ug/l #	1
74) N-amyl acetate	12.08	43	136	Below Cal	#	1
75) 1,1,2,2-Tetrachloroethane	12.53	83	73	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	251549	48.522	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	251549	111.102	ug/l #	14

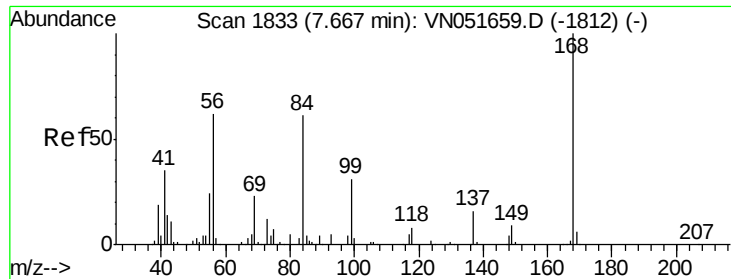
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

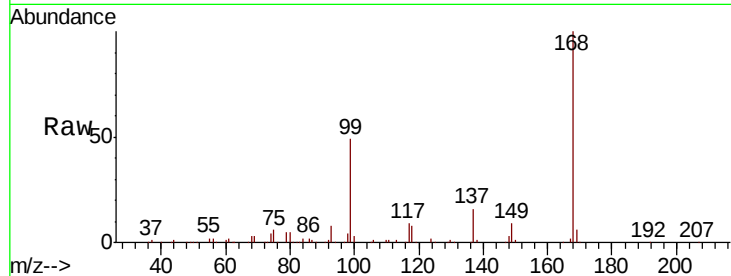
PB113684ZHE#04

Tot Ion:168 Resp: 814423

Ion Ratio Lower Upper

168 100

99 49.2 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

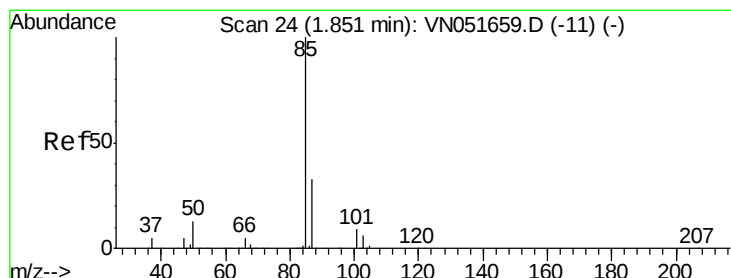
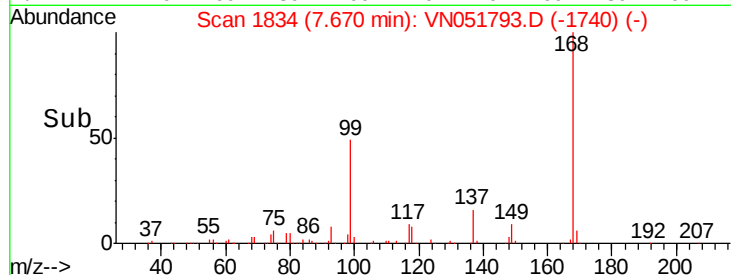
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 1.152 ug/l

RT: 2.05 min Scan# 85

Delta R.T. 0.20 min

Lab File: VN051793.D

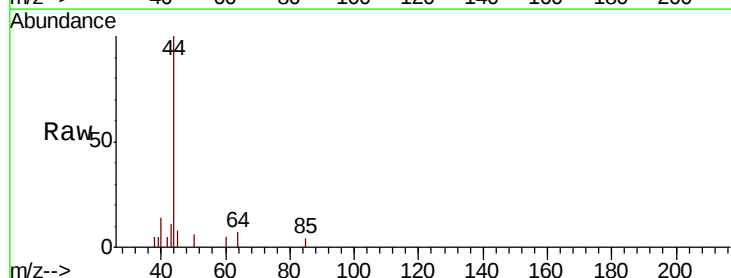
Acq: 10 Oct 2018 16:09

Tgt Ion: 85 Resp: 30

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

2.05

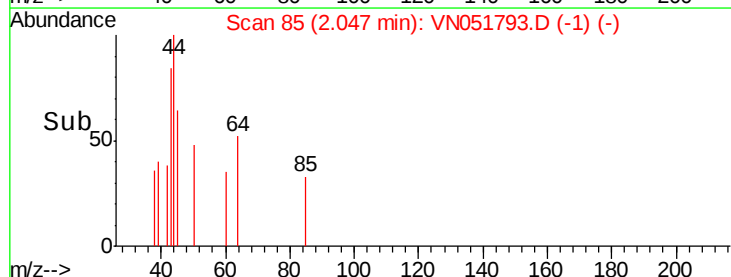
150

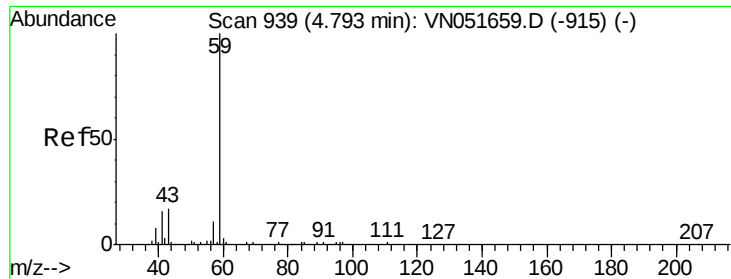
100

50

0

Time--> 2.04 2.04 2.04 2.05 2.06

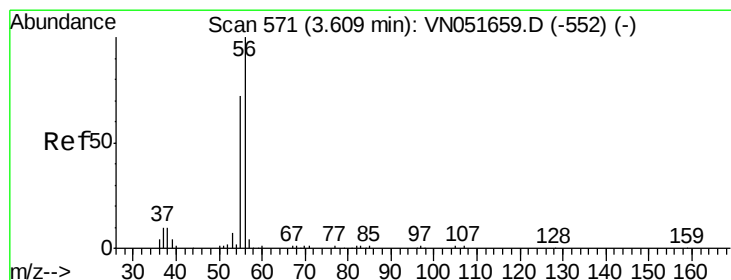
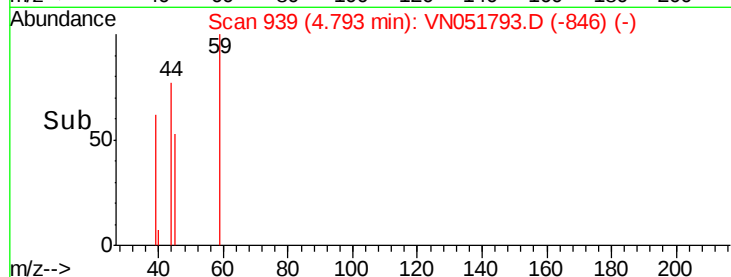
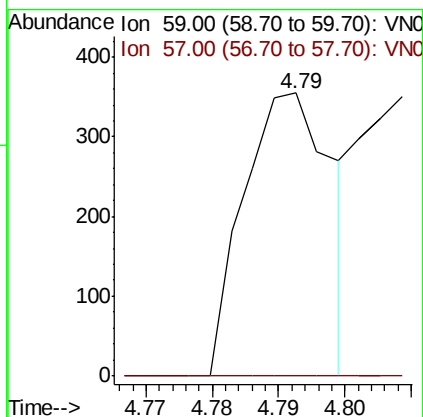
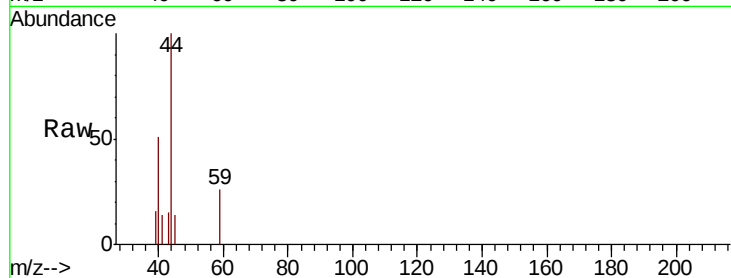




#11
Tert butyl alcohol
Concen: 0.447 ug/l
RT: 4.79 min Scan# 939
Delta R.T. -0.00 min
Lab File: VN051793.D
Acq: 10 Oct 2018 16:09

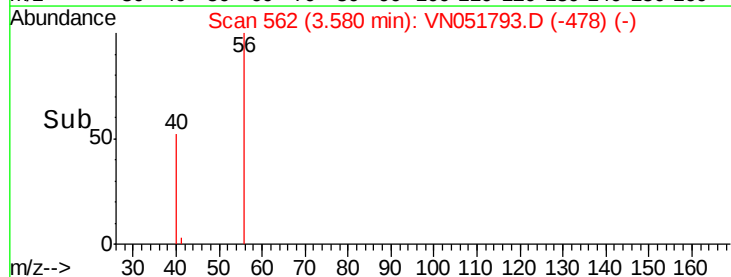
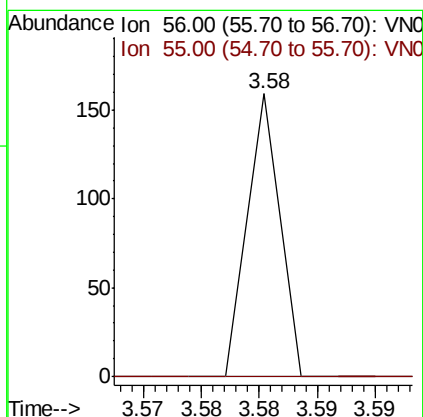
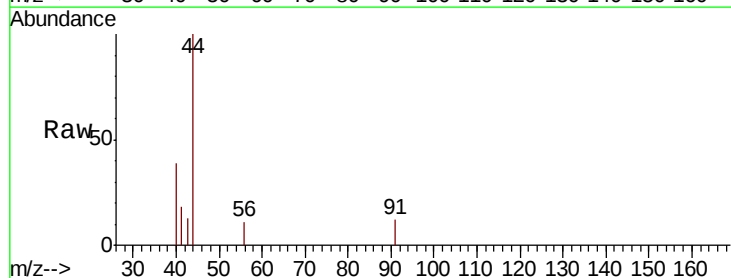
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#04

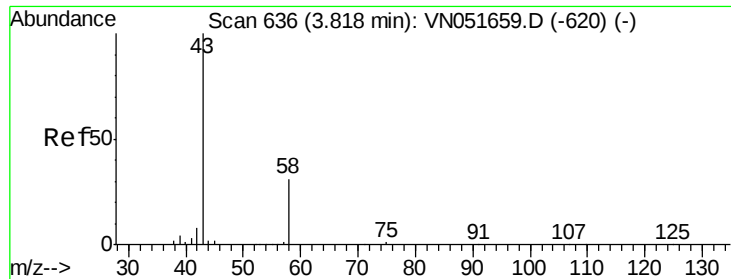
Tot Ion: 59 Resp: 327
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 3.58 min Scan# 562
Delta R.T. -0.03 min
Lab File: VN051793.D
Acq: 10 Oct 2018 16:09

Tgt Ion: 56 Resp: 31
Ion Ratio Lower Upper
56 100
55 0.0 57.5 86.3#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

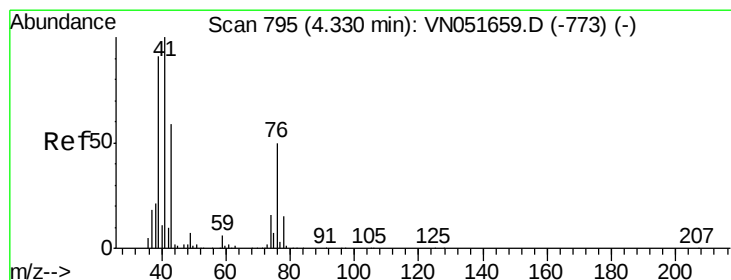
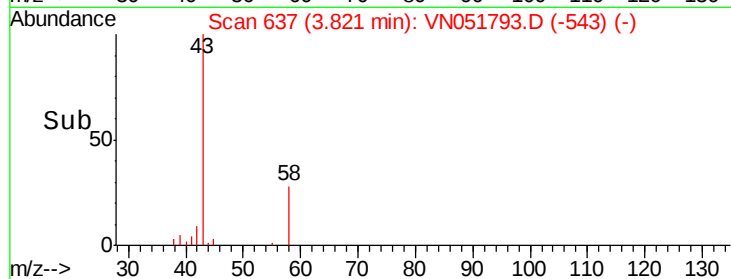
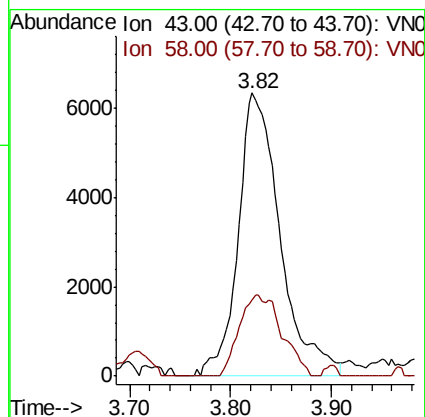
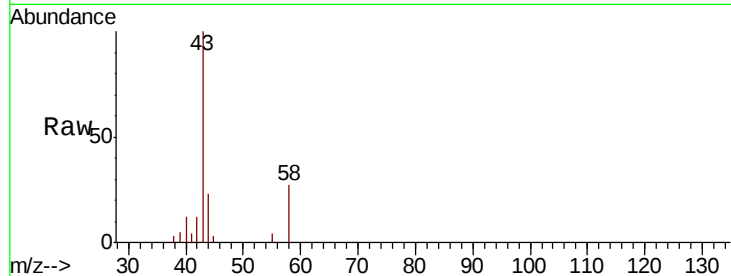
PB113684ZHE#04

Tot Ion: 43 Resp: 18315

Ion Ratio Lower Upper

43 100

58 27.0 24.3 36.5



#18

Methyl Acetate

Concen: 0.609 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN051793.D

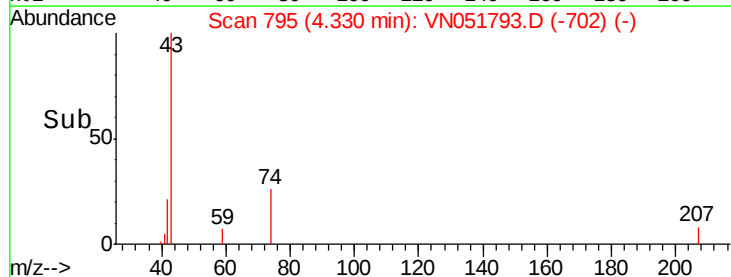
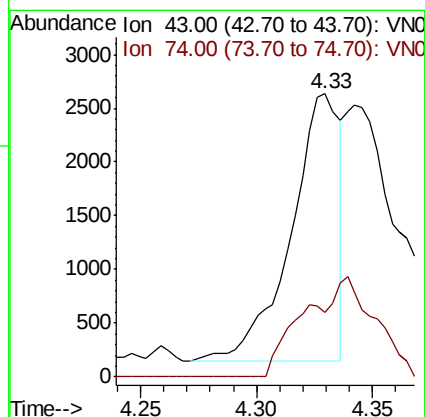
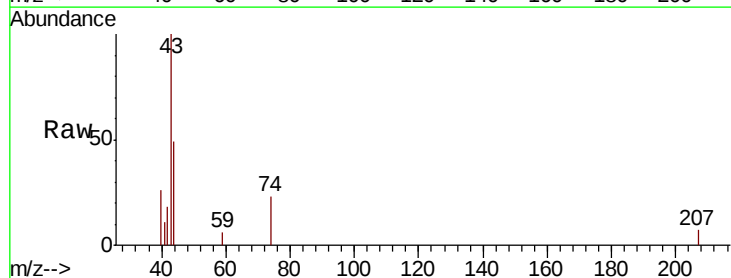
Acq: 10 Oct 2018 16:09

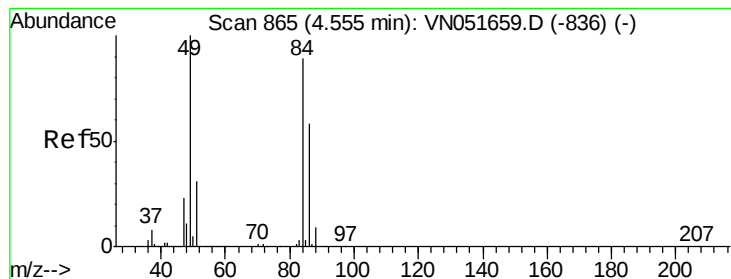
Tgt Ion: 43 Resp: 3618

Ion Ratio Lower Upper

43 100

74 54.4 21.5 32.3#





#20

Methvlene Chloride

Concen: 1.216 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.01 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#04

Tot Ion: 84 Resp: 10764

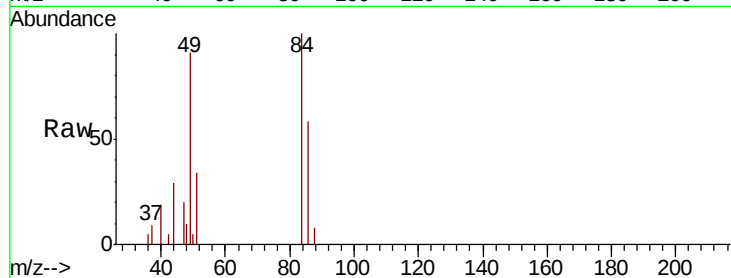
Ion Ratio Lower Upper

84 100

49 91.0 89.5 134.3

51 34.3 27.4 41.0

86 57.6 51.9 77.9

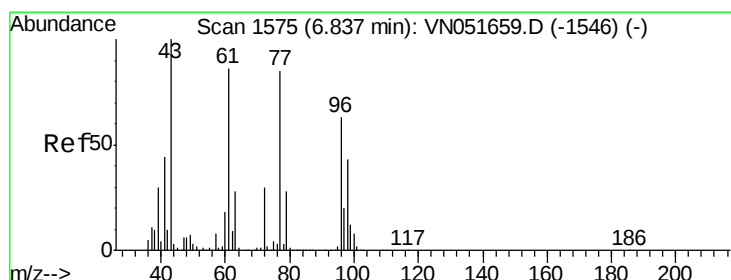
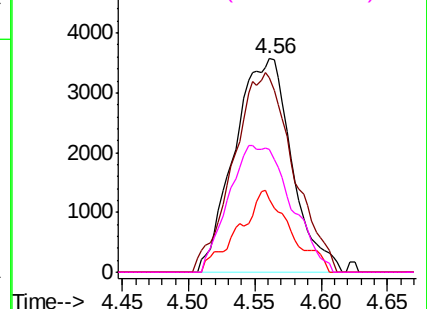
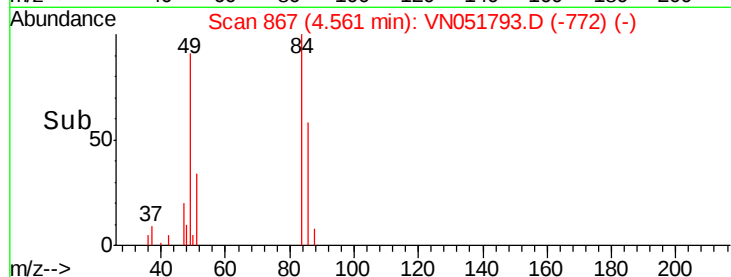


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.760 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VN051793.D

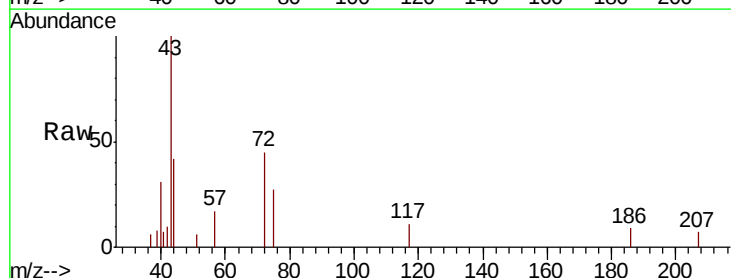
Acq: 10 Oct 2018 16:09

Tgt Ion: 43 Resp: 8574

Ion Ratio Lower Upper

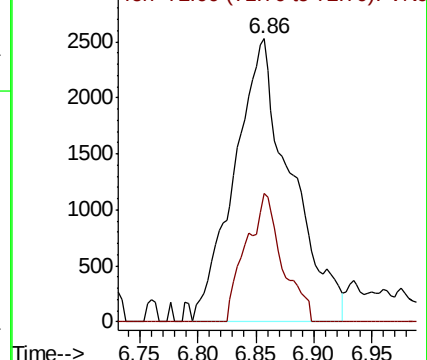
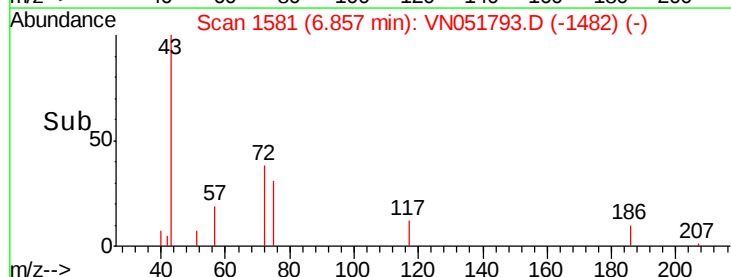
43 100

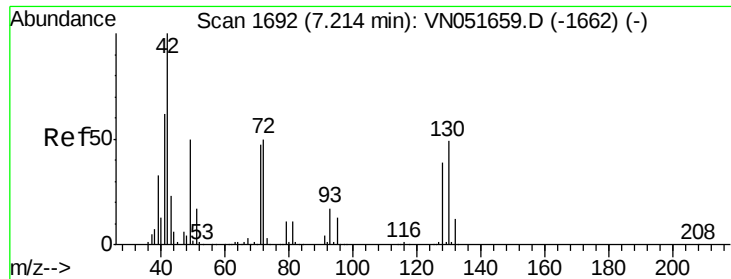
72 45.3 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.482 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

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ClientSampleId :

PB113684ZHE#04

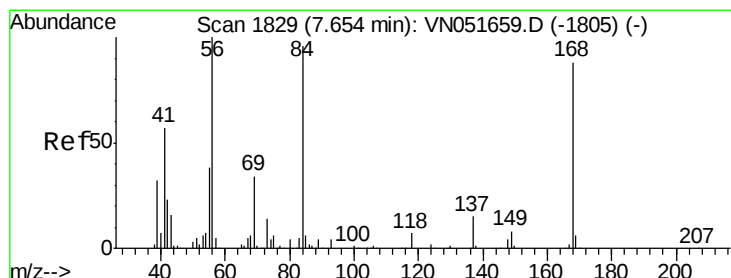
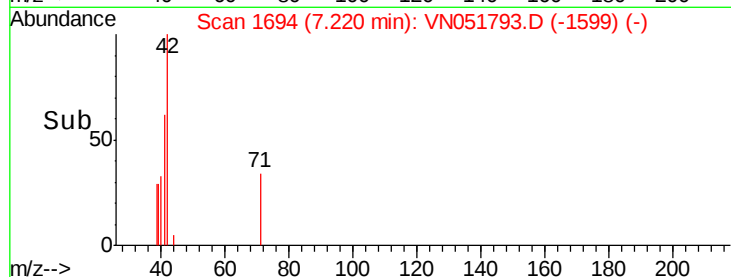
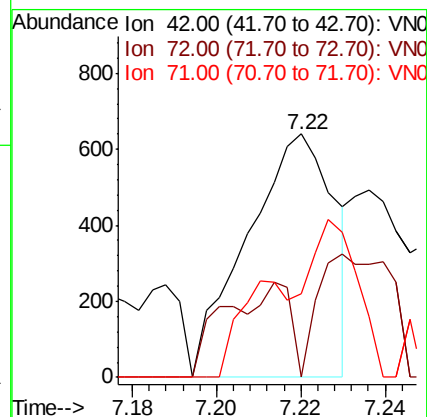
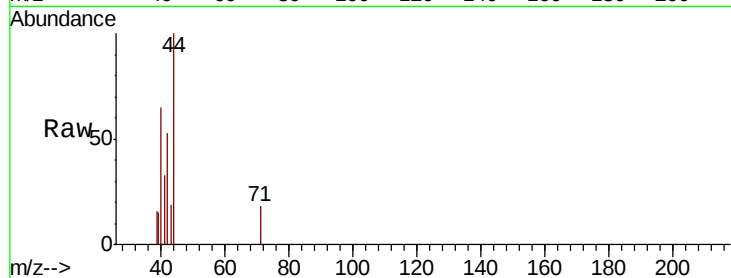
Tot Ion: 42 Resp: 918

Ion Ratio Lower Upper

42 100

72 41.5 40.1 60.1

71 37.5 38.0 57.0#



#31

Cyclohexane

Concen: 1.023 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

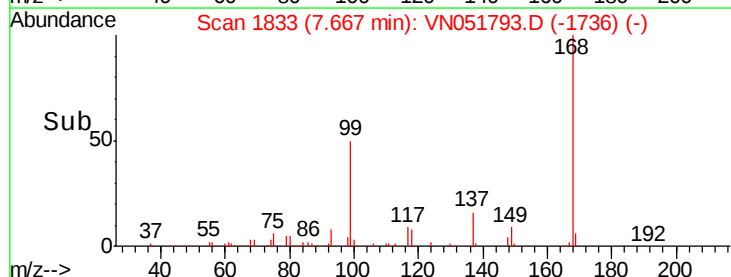
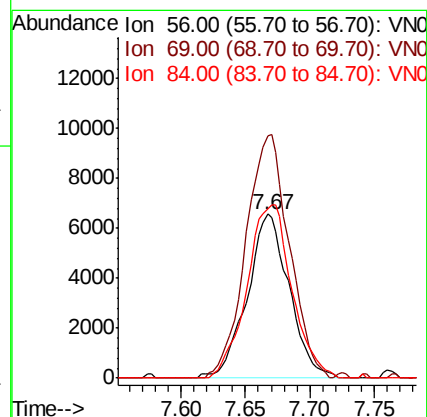
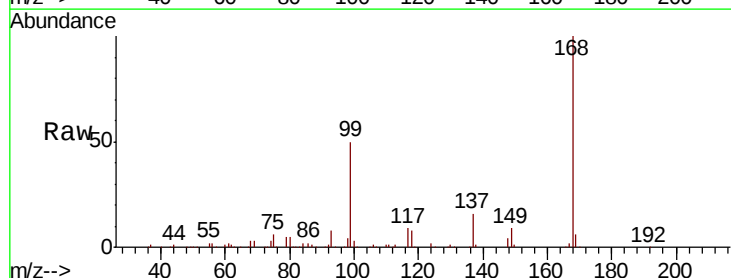
Tgt Ion: 56 Resp: 14944

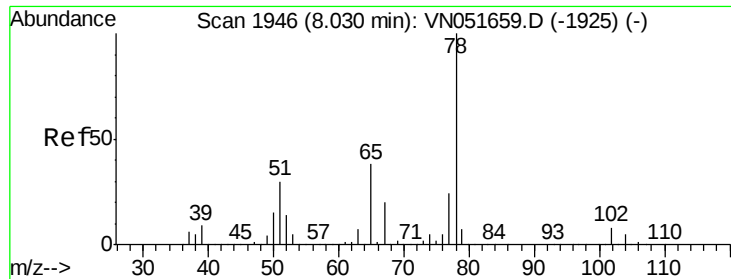
Ion Ratio Lower Upper

56 100

69 147.9 27.5 41.3#

84 103.1 76.7 115.1

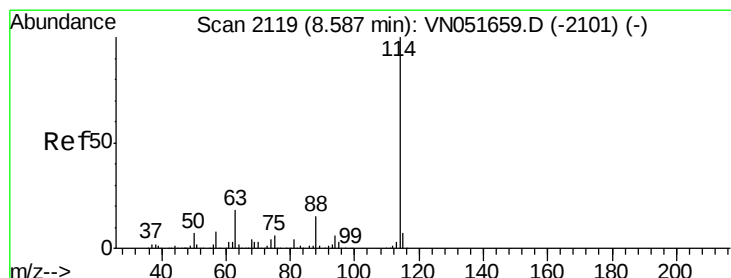
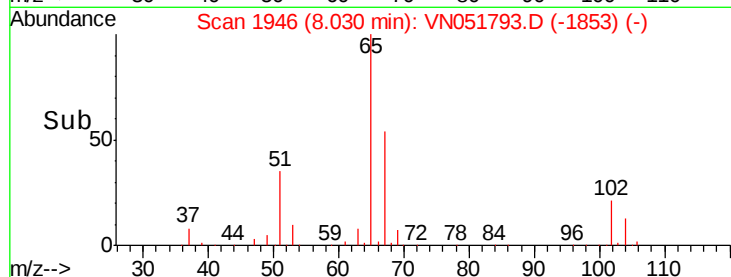
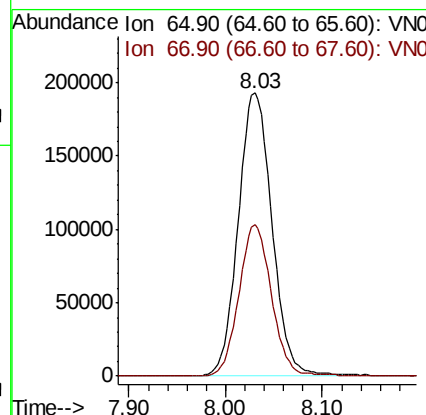
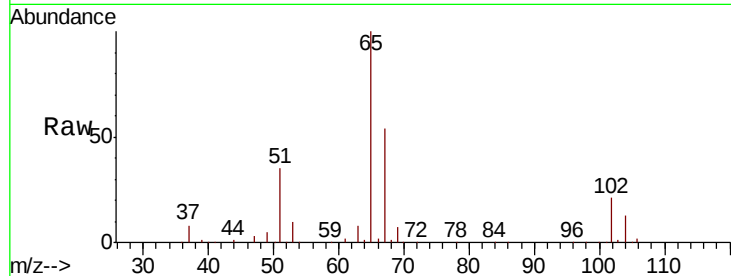




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VN051793.D
 Acq: 10 Oct 2018 16:09

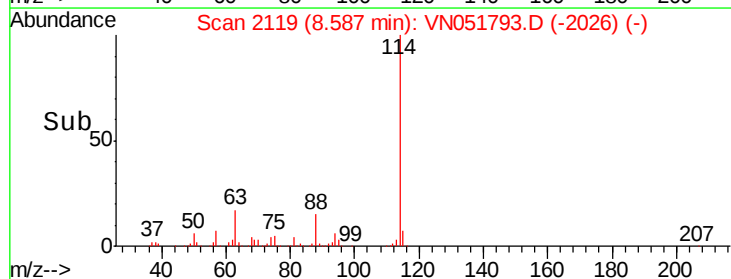
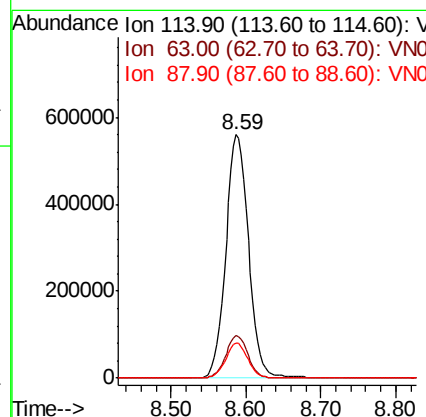
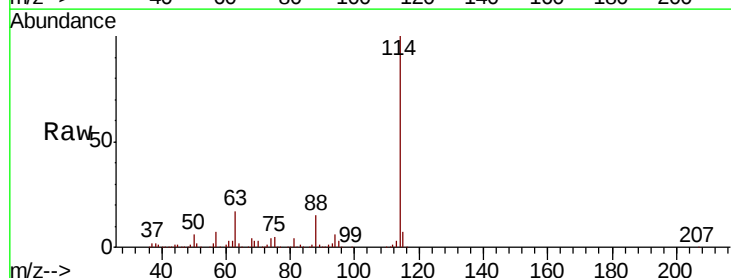
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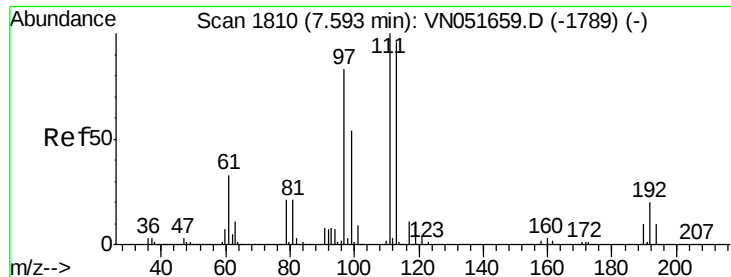
Tot Ion: 65 Resp: 468858
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051793.D
 Acq: 10 Oct 2018 16:09

Tgt Ion: 114 Resp: 1175786
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 36.2
 88 14.5 0.0 30.2

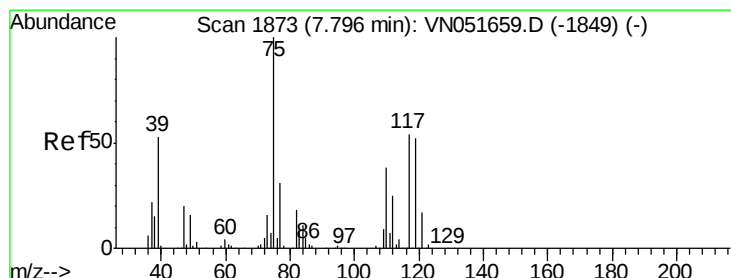
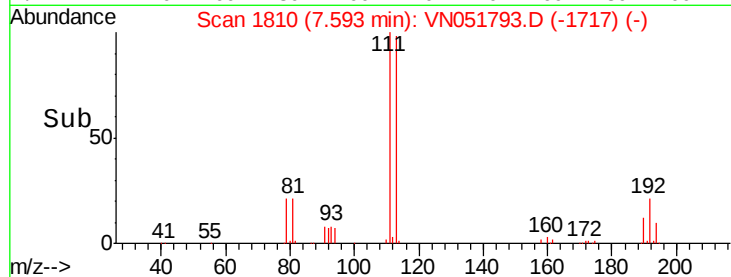
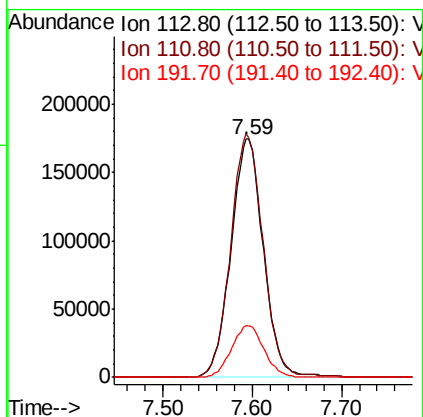
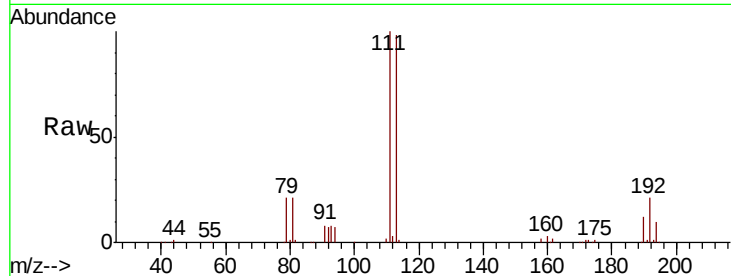




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051793.D
 Acq: 10 Oct 2018 16:09

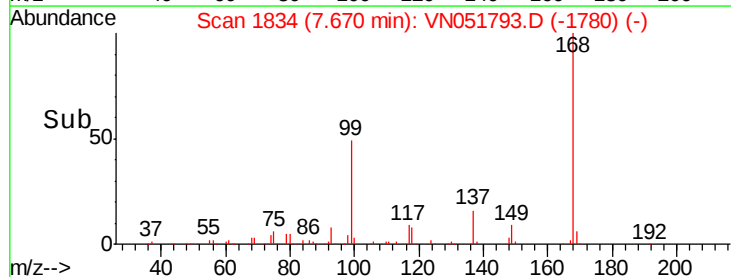
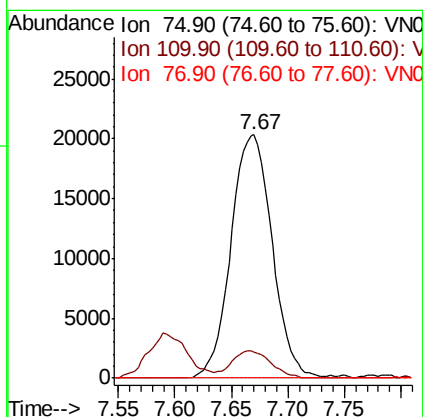
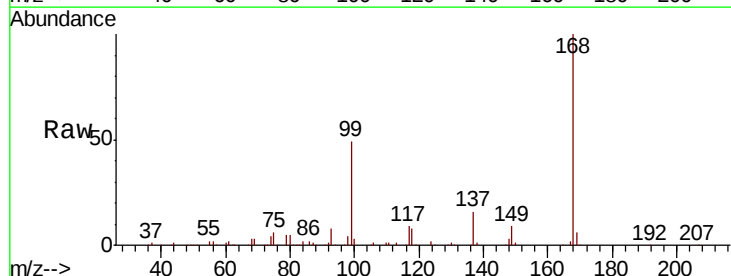
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#04

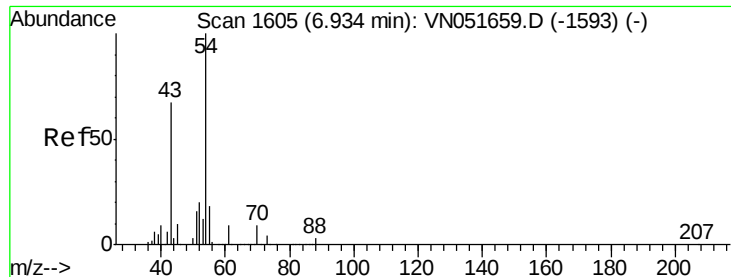
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.8	122.8
192	21.7	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.198 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN051793.D
 Acq: 10 Oct 2018 16:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	19.3	57.8#
77	0.0	24.7	37.1#

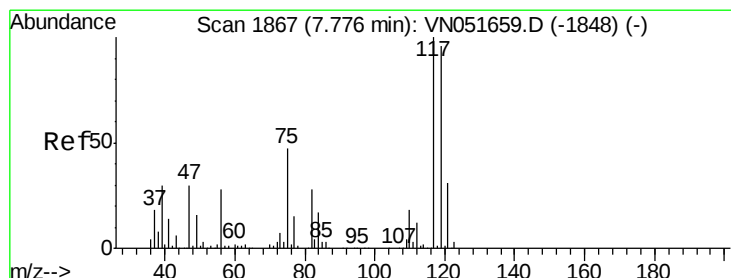
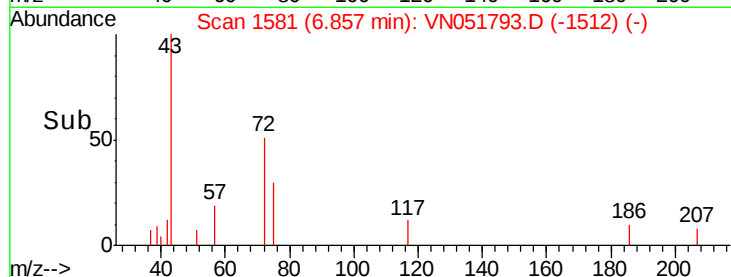
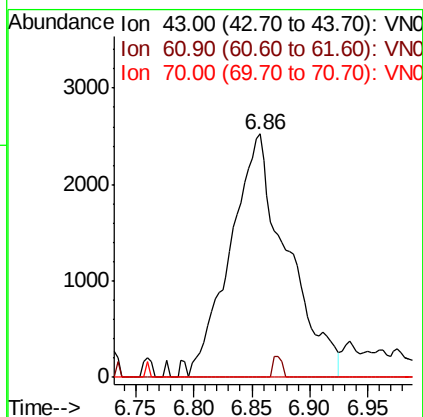
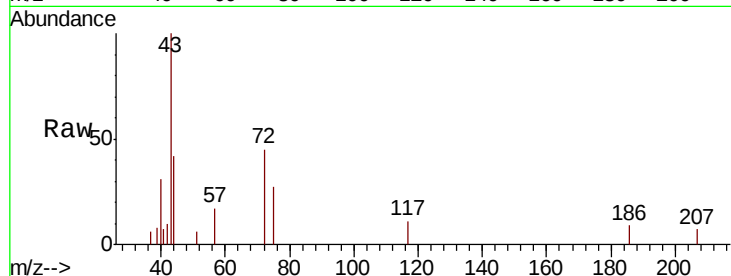




#37
Ethyl Acetate
Concen: 1.338 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. -0.08 min
Lab File: VN051793.D
Acq: 10 Oct 2018 16:09

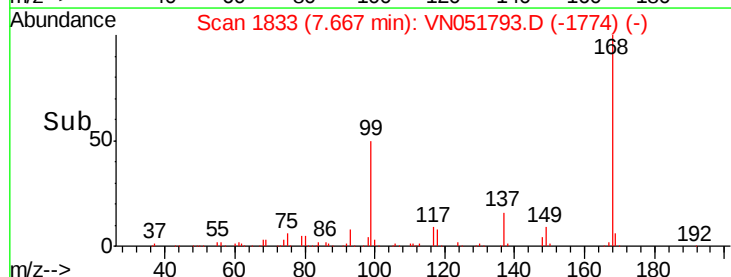
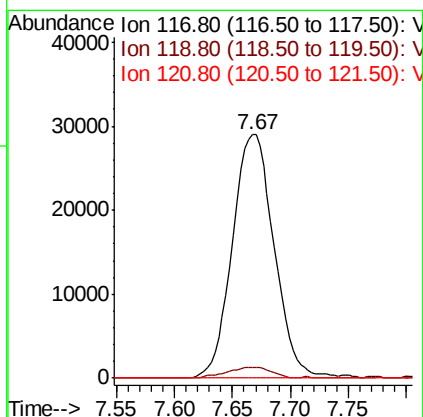
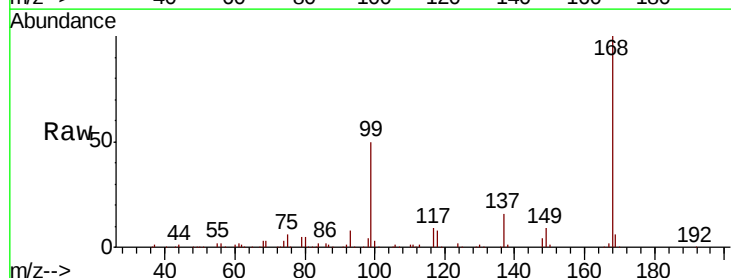
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#04

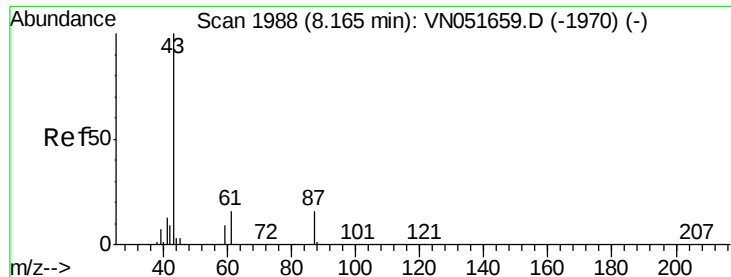
Tot Ion: 43 Resp: 8574
Ion Ratio Lower Upper
43 100
61 1.3 11.8 17.6#
70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 4.908 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051793.D
Acq: 10 Oct 2018 16:09

Tgt Ion: 117 Resp: 72382
Ion Ratio Lower Upper
117 100
119 4.6 77.0 115.6#
121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 26.309 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#04

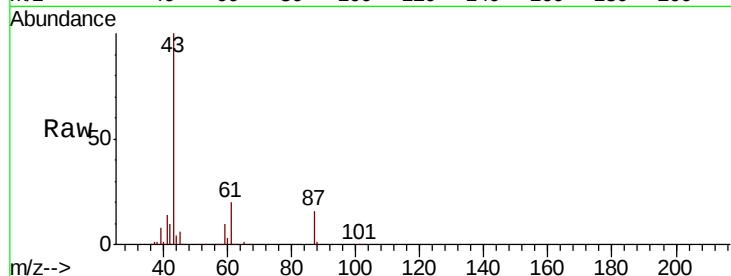
Tot Ion: 43 Resp: 351586

Ion Ratio Lower Upper

43 100

61 17.8 15.8 23.6

87 13.6 12.6 19.0

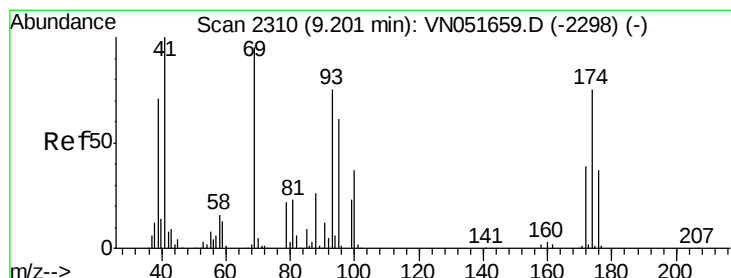
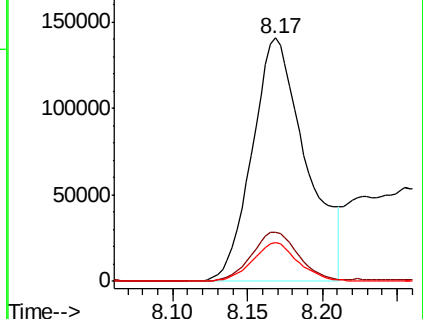
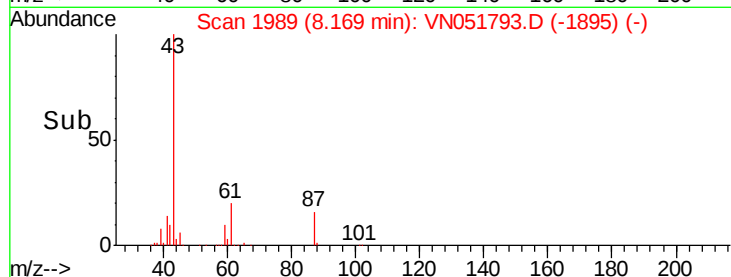


Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN051659.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN051659.D (-1970) (-)

Time-->



#48

Methyl methacrylate

Concen: 1.404 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

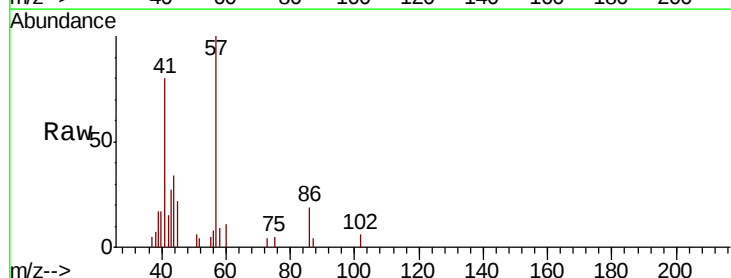
Tgt Ion: 41 Resp: 8576

Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

39 20.4 59.2 88.8#

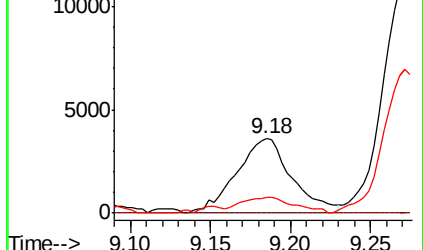
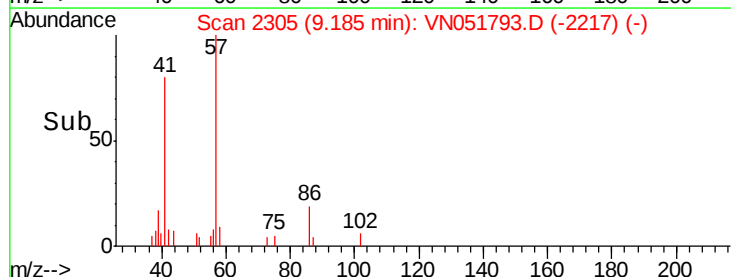


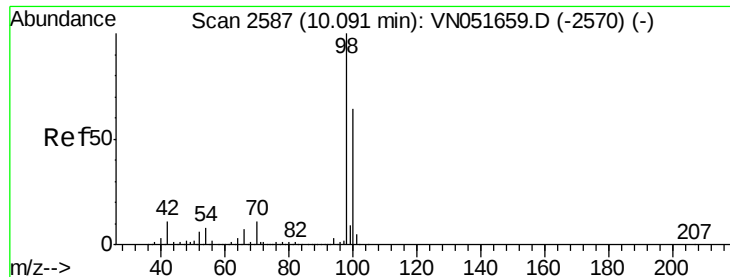
Abundance Ion 41.00 (40.70 to 41.70): VN051659.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051659.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051659.D (-2298) (-)

Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

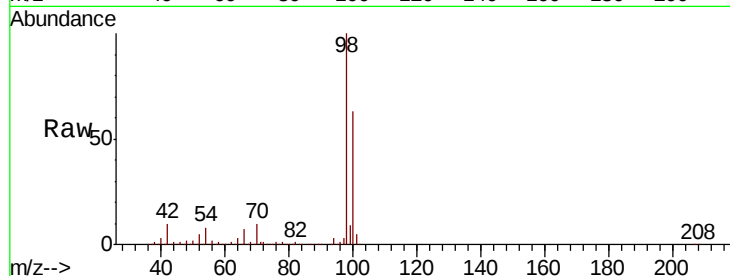
PB113684ZHE#04

Tot Ion: 98 Resp: 1666192

Ion Ratio Lower Upper

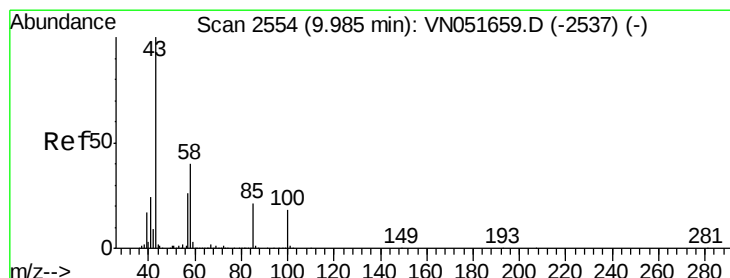
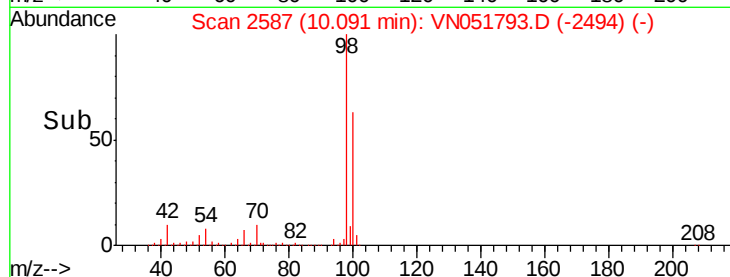
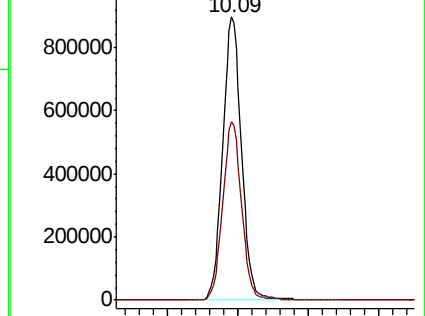
98 100

100 63.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN051659.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051659.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.240 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051793.D

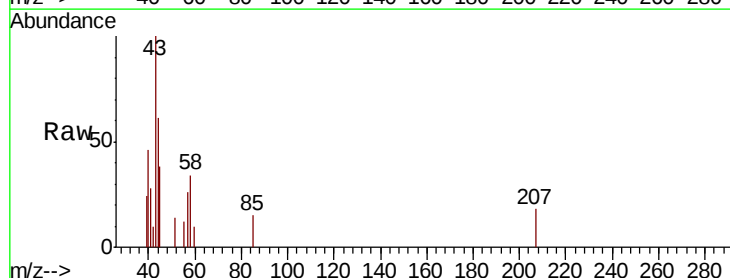
Acq: 10 Oct 2018 16:09

Tgt Ion: 43 Resp: 1627

Ion Ratio Lower Upper

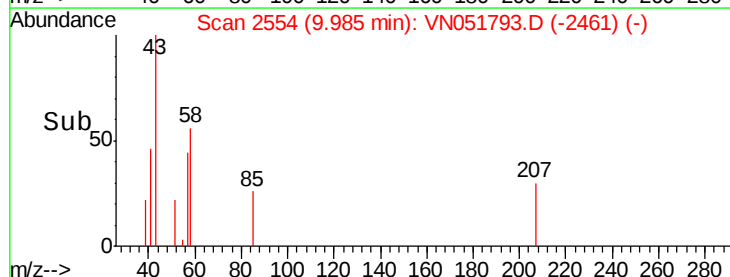
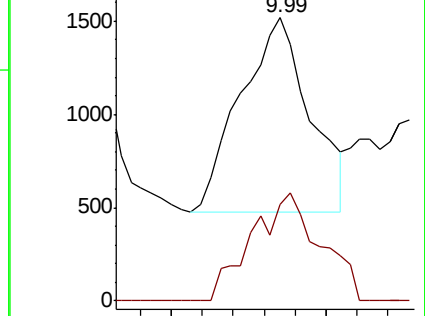
43 100

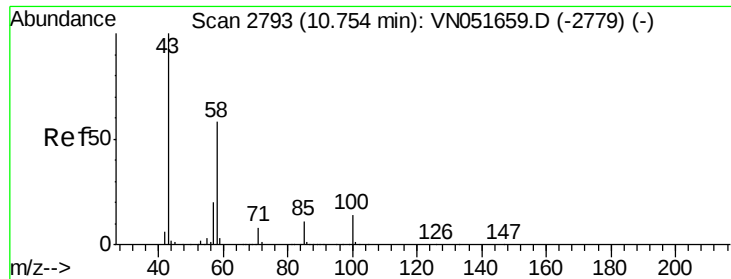
58 54.6 32.2 48.2#



Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN051659.D (-2537) (-)





#59

2-Hexanone

Concen: 4.431 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

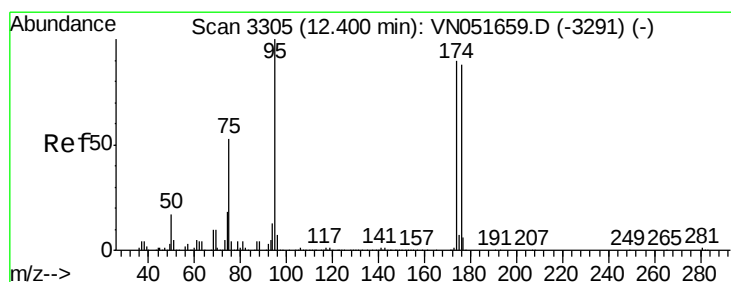
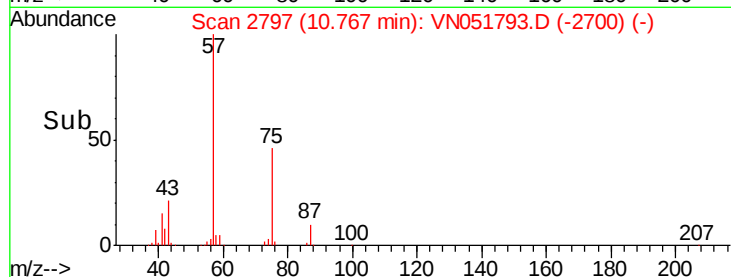
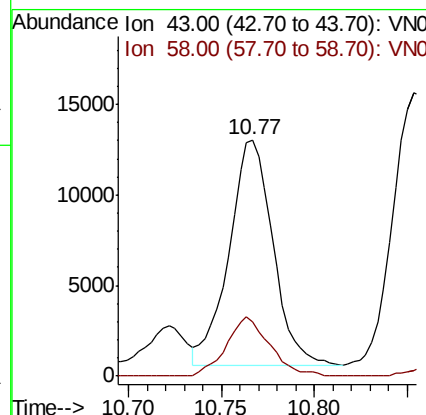
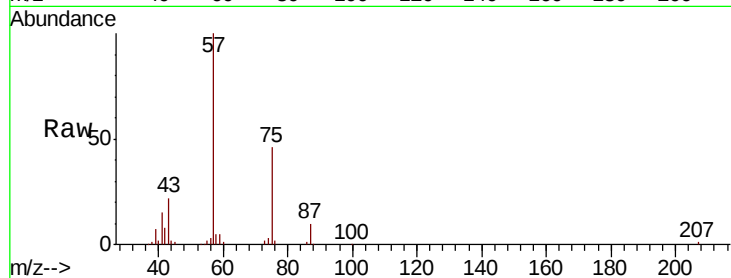
PB113684ZHE#04

Tot Ion: 43 Resp: 20378

Ion Ratio Lower Upper

43 100

58 25.9 28.8 86.4#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

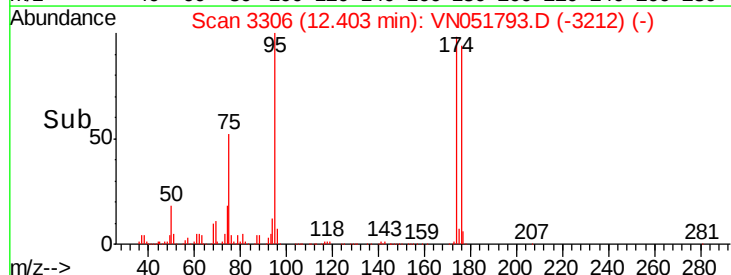
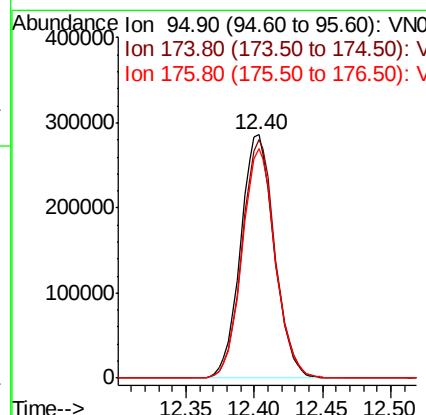
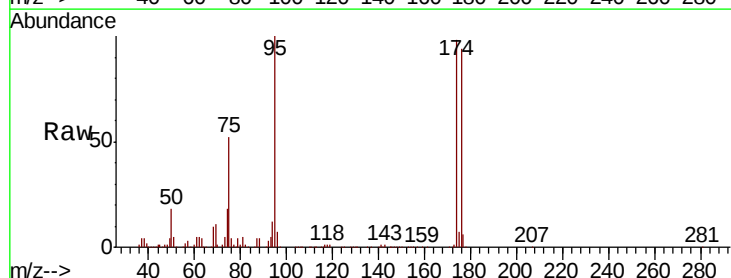
Tgt Ion: 95 Resp: 488406

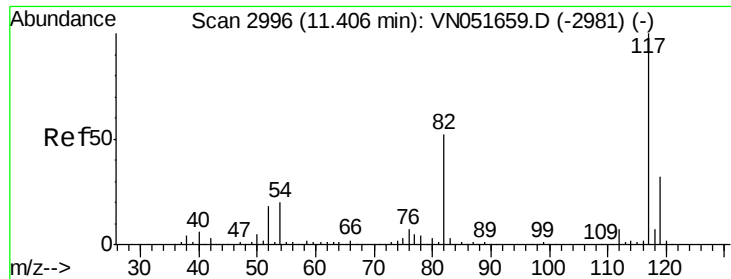
Ion Ratio Lower Upper

95 100

174 96.6 0.0 182.8

176 93.2 0.0 176.4

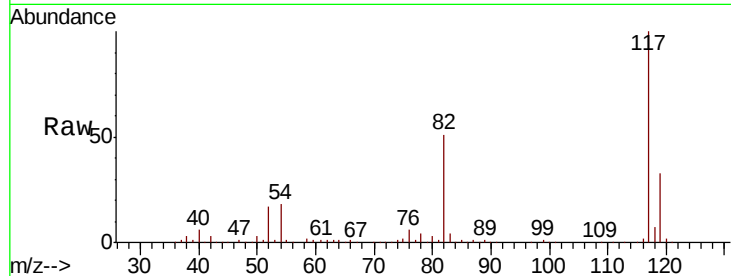




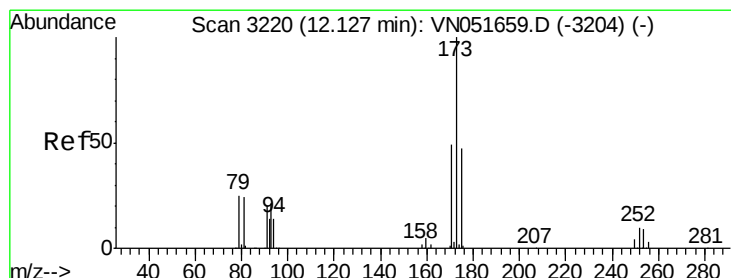
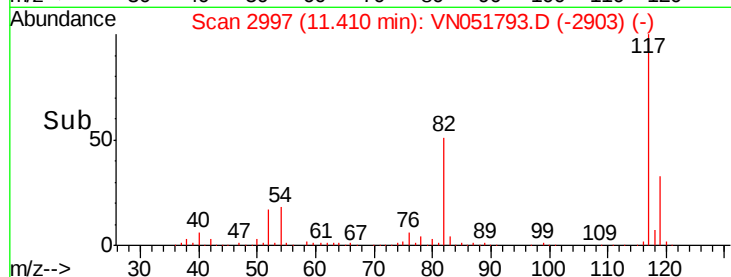
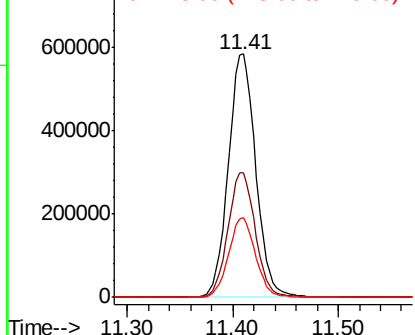
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051793.D
Acq: 10 Oct 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#04

Tot Ion:117 Resp: 1047618
Ion Ratio Lower Upper
117 100
82 51.2 41.3 61.9
119 32.6 25.9 38.9

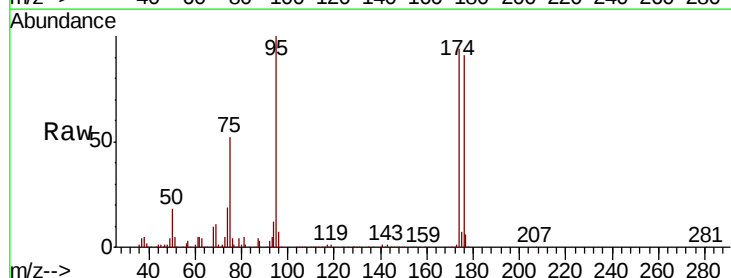


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

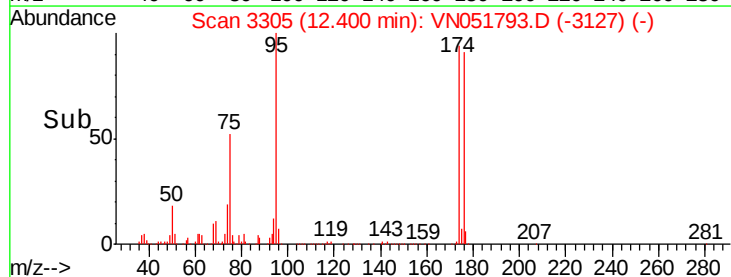
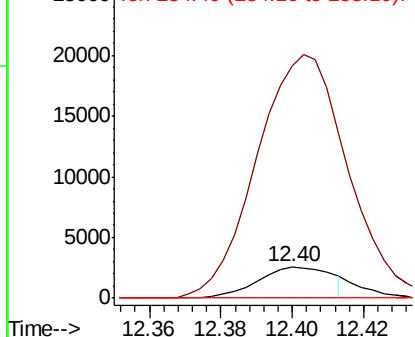


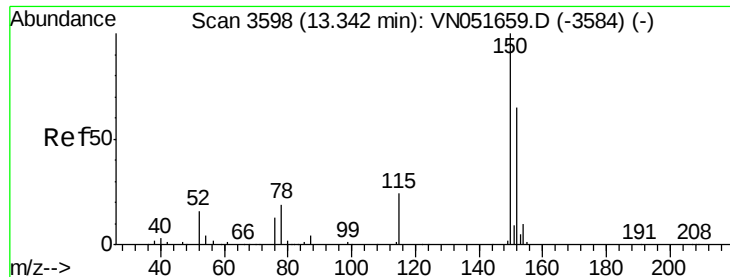
#71
Bromoform
Concen: 0.472 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051793.D
Acq: 10 Oct 2018 16:09

Tgt Ion:173 Resp: 3651
Ion Ratio Lower Upper
173 100
175 813.4 24.0 72.0#
254 0.0 0.1 0.1#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#04

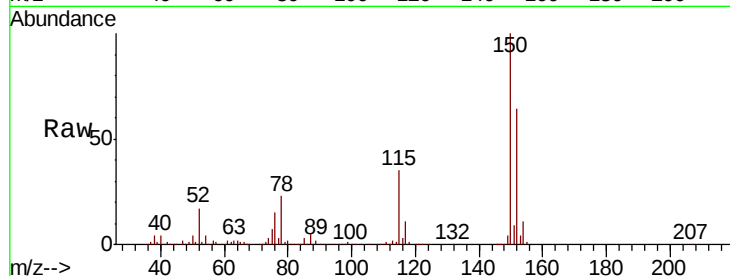
Tot Ion:152 Resp: 416191

Ion Ratio Lower Upper

152 100

115 54.6 28.6 85.8

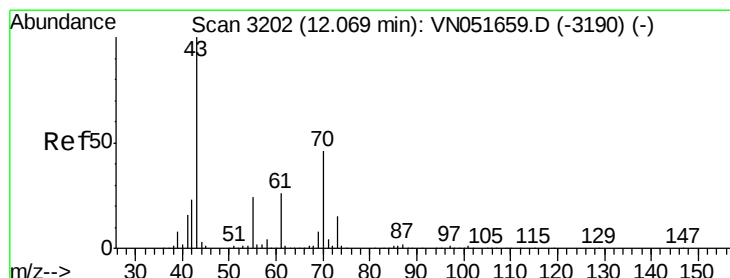
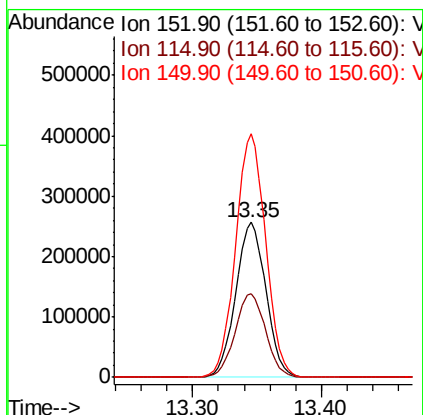
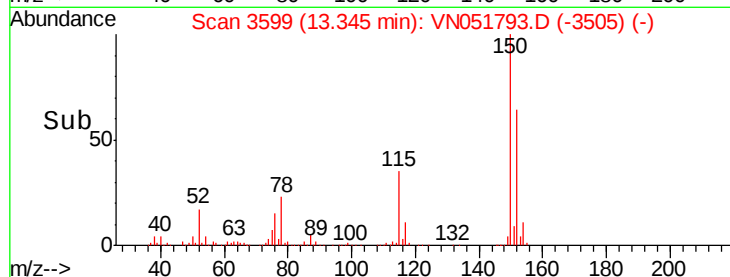
150 156.5 0.0 352.4



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: Below Cal

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Tgt Ion: 43 Resp: 136

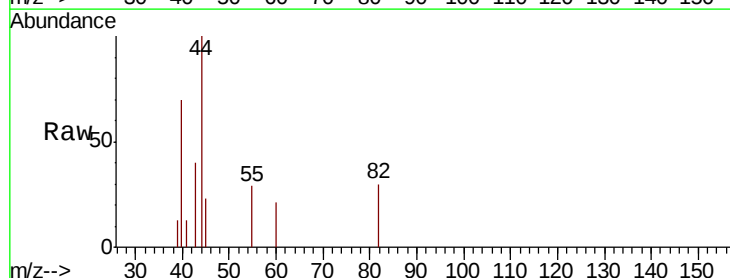
Ion Ratio Lower Upper

43 100

70 44.9 37.1 55.7

55 264.7 19.1 28.7#

61 0.0 20.8 31.2#

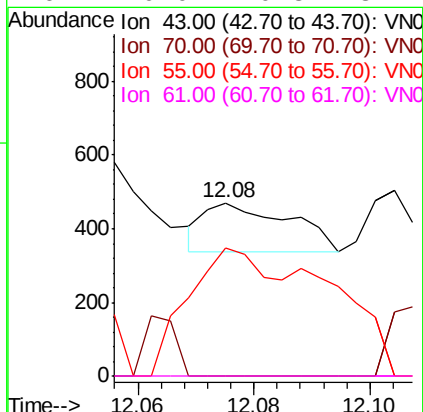
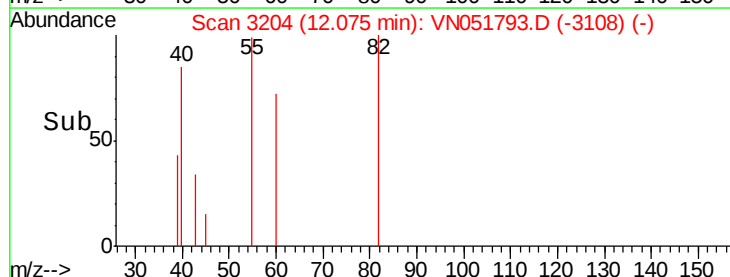


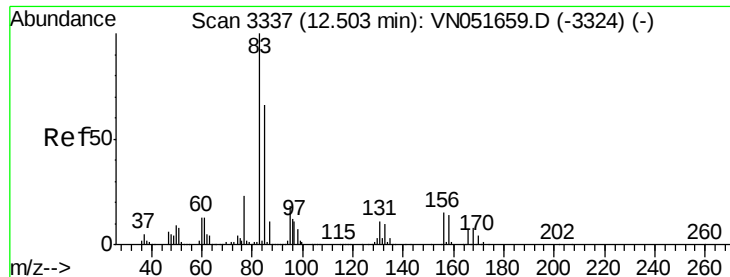
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.53 min Scan# 3346

Delta R.T. 0.03 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#04

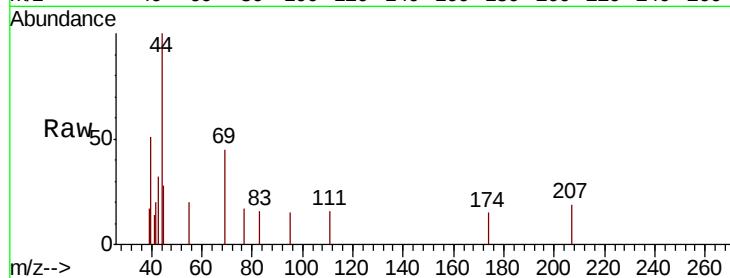
Tot Ion: 83 Resp: 73

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

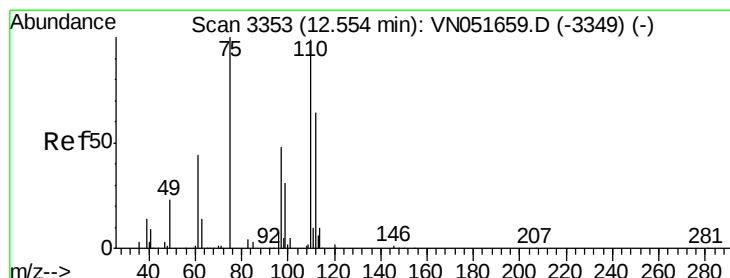
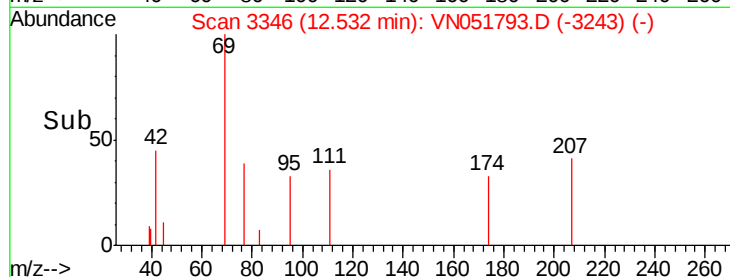
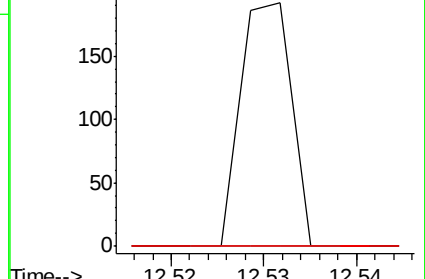
85 0.0 33.0 98.9#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 48.522 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051793.D

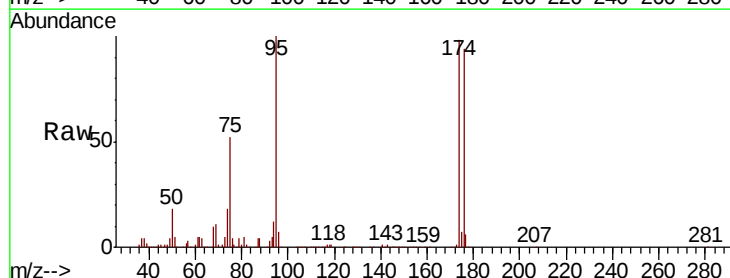
Acq: 10 Oct 2018 16:09

Tgt Ion: 75 Resp: 251549

Ion Ratio Lower Upper

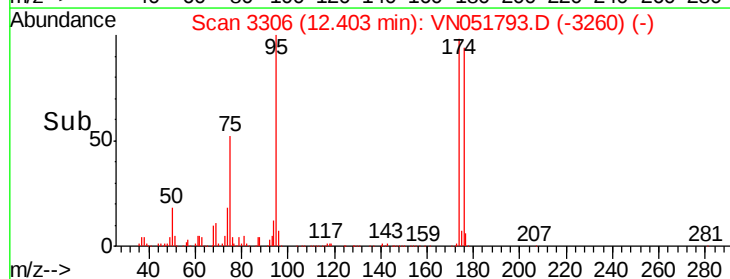
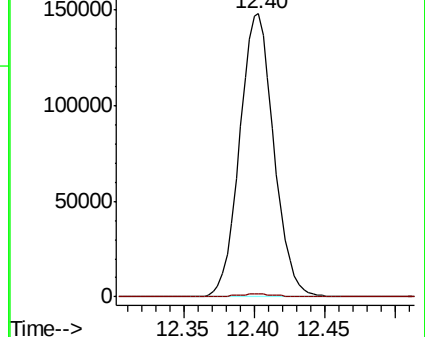
75 100

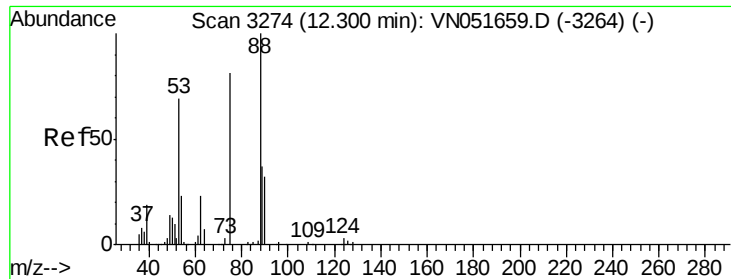
77 1.1 0.0 0.0#



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: 111.102 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051793.D

Acq: 10 Oct 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#04

Tot Ion: 75 Resp: 251549

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#

