

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101018\
 Data File : VN051795.D
 Acq On : 10 Oct 2018 16:59
 Operator : MD\SY
 Sample : PB113684ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#06

Quant Time: Oct 11 01:59:07 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

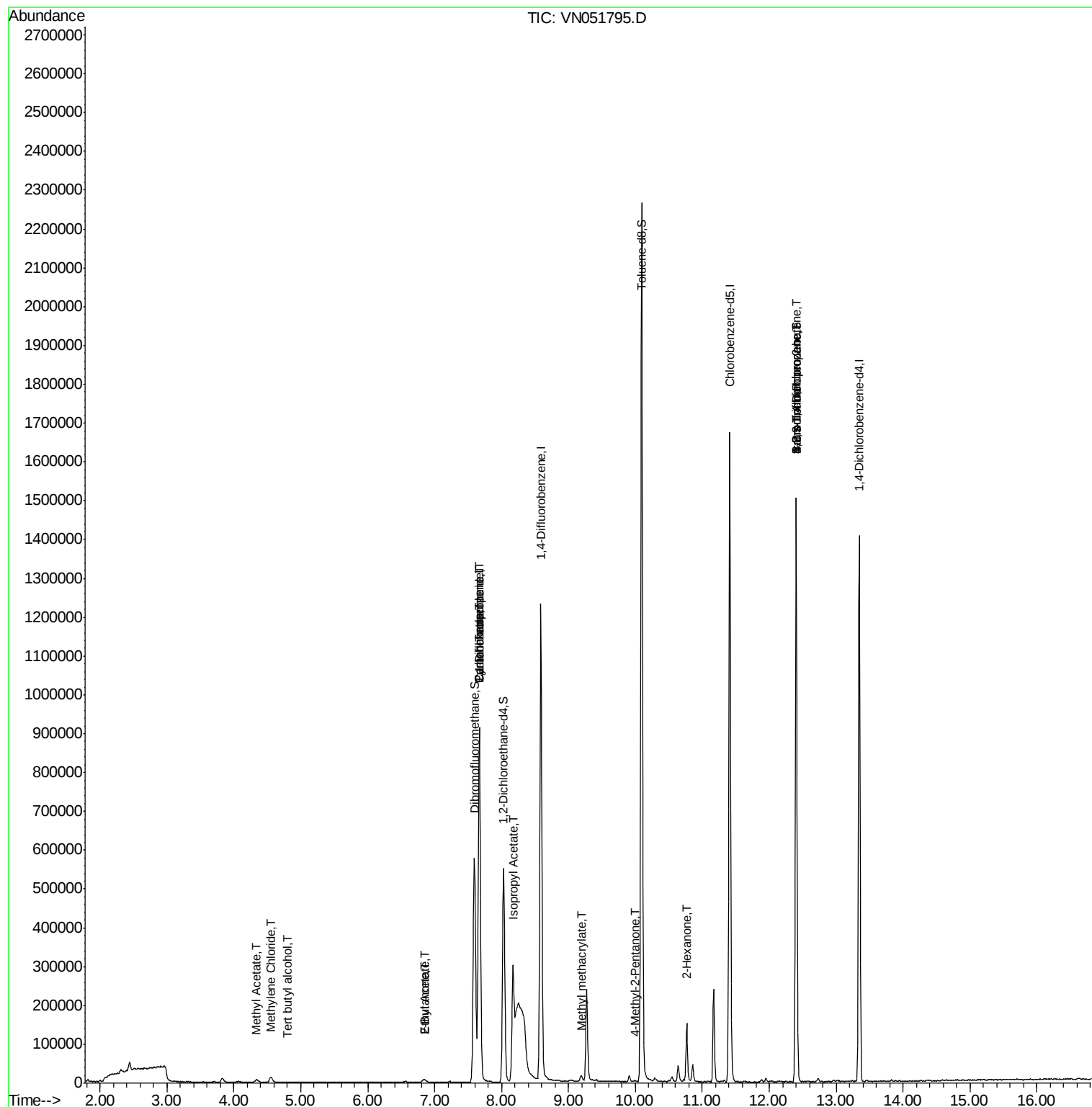
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	811310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1174623	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1038568	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	400635	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	470665	43.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.82%	
35) Dibromofluoromethane	7.59	113	431876	47.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.12%	
50) Toluene-d8	10.09	98	1662000	49.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	12.40	95	480897	40.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	80.20%	
Target Compounds						
					Qvalue	
7) Trichlorofluoromethane	2.83	101	36	Below Cal		94
11) Tert butyl alcohol	4.80	59	276	0.379 ug/l #		54
13) Acrolein	3.61	56	32	Below Cal	#	14
16) Acetone	3.82	43	17402	Below Cal		98
18) Methyl Acetate	4.33	43	13219	2.235 ug/l		99
20) Methylene Chloride	4.55	84	10430	1.183 ug/l #		95
25) 2-Butanone	6.85	43	8555	2.764 ug/l		89
31) Cyclohexane	7.67	56	14158	0.973 ug/l #		26
36) 1,1-Dichloropropene	7.67	75	49904	4.065 ug/l #		50
37) Ethyl Acetate	6.85	43	8555	1.336 ug/l #		69
38) Carbon Tetrachloride	7.67	117	72252	4.904 ug/l #		14
41) Methacrylonitrile	7.18	41	177	Below Cal	#	36
43) Isopropyl Acetate	8.17	43	377402	28.268 ug/l		95
48) Methyl methacrylate	9.18	41	7942	1.302 ug/l #		20
51) 4-Methyl-2-Pentanone	9.99	43	2144	0.317 ug/l		95
59) 2-Hexanone	10.77	43	22883	4.981 ug/l #		55
71) Bromoform	12.40	173	3626	0.473 ug/l #		1
74) N-amyl acetate	12.09	43	187	Below Cal	#	5
75) 1,1,2,2-Tetrachloroethane	12.47	83	62	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	248857	49.990 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	248857	114.181 ug/l #		14

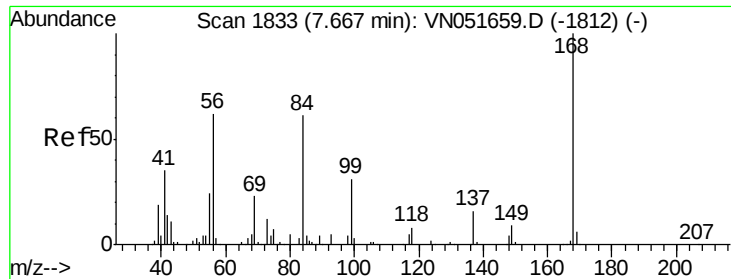
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

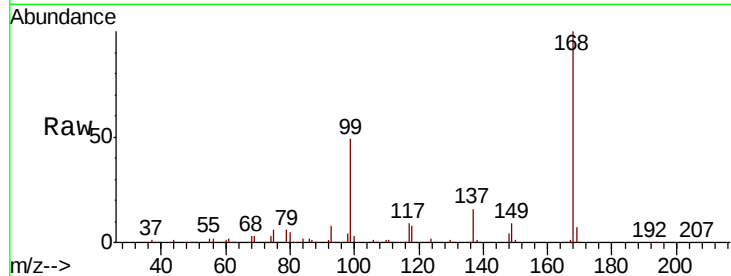
PB113684ZHE#06

Tot Ion:168 Resp: 811310

Ion Ratio Lower Upper

168 100

99 49.0 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

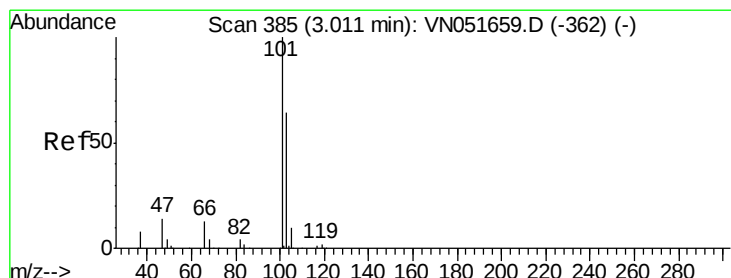
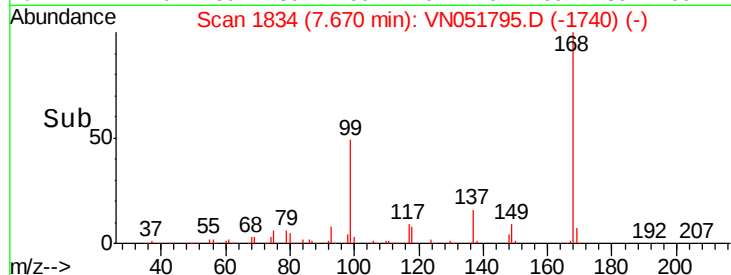
300000

200000

100000

0

Time-->



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.83 min Scan# 328

Delta R.T. -0.18 min

Lab File: VN051795.D

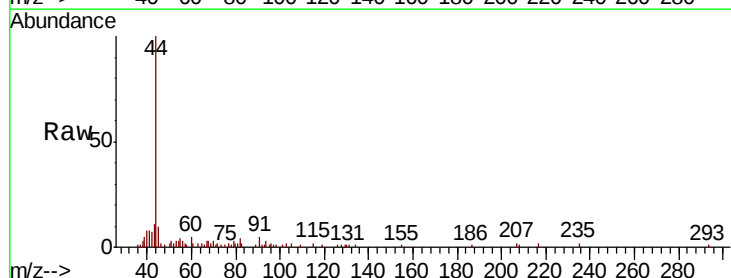
Acq: 10 Oct 2018 16:59

Tgt Ion:101 Resp: 36

Ion Ratio Lower Upper

101 100

103 58.9 51.1 76.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

2.83

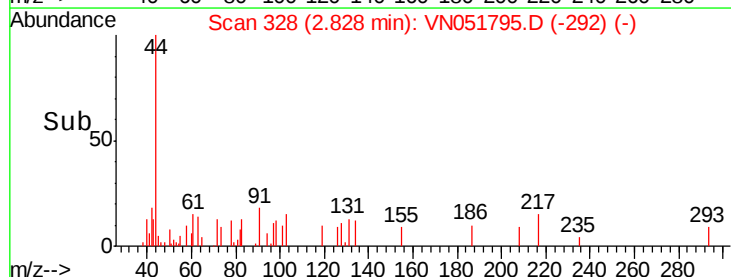
300

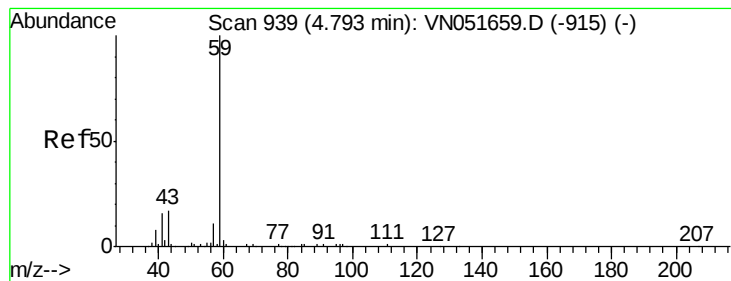
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 0.379 ug/l

RT: 4.80 min Scan# 942

Delta R.T. 0.01 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

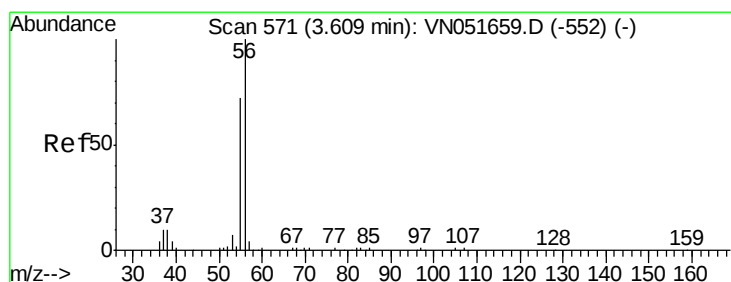
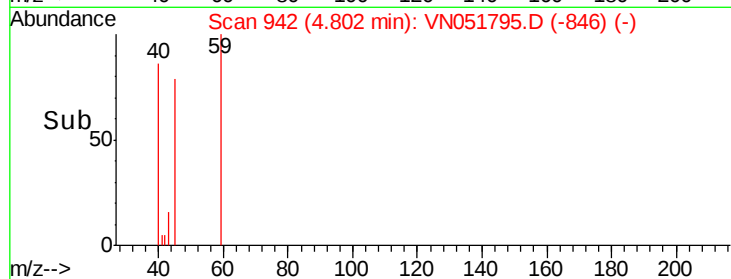
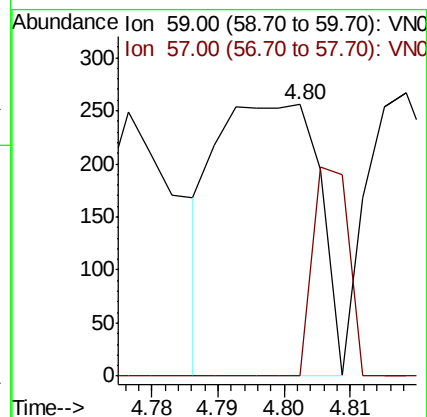
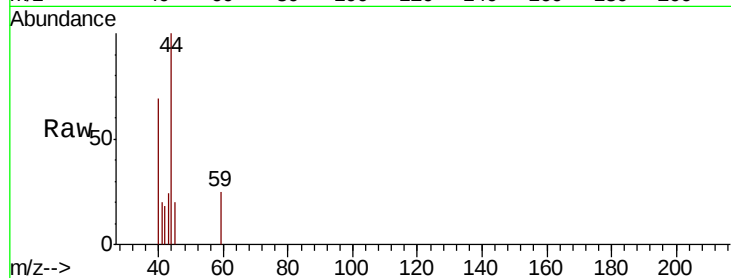
PB113684ZHE#06

Tot Ion: 59 Resp: 276

Ion Ratio Lower Upper

59 100

57 27.2 8.1 12.1#



#13

Acrolein

Concen: Below Cal

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051795.D

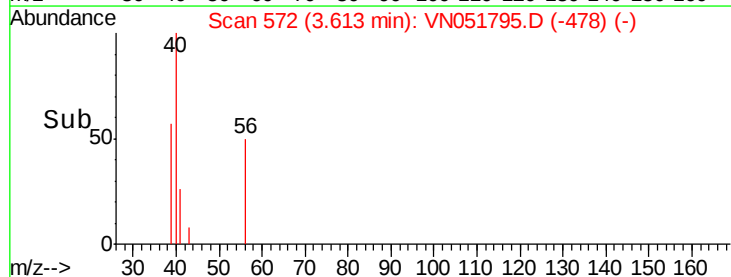
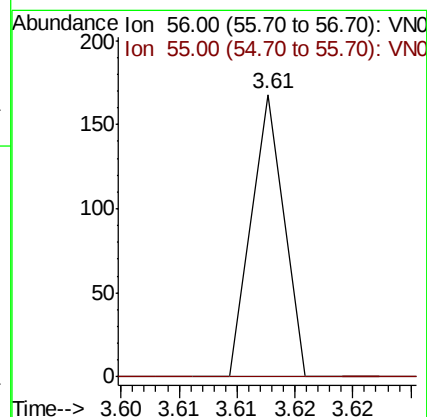
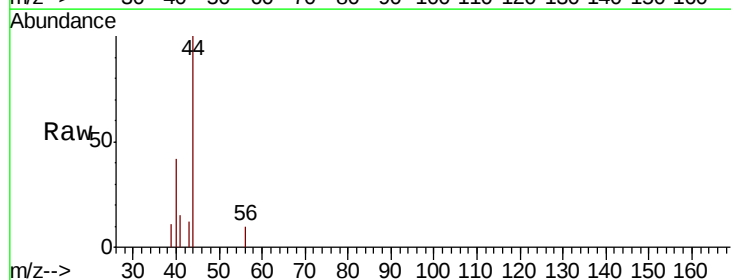
Acq: 10 Oct 2018 16:59

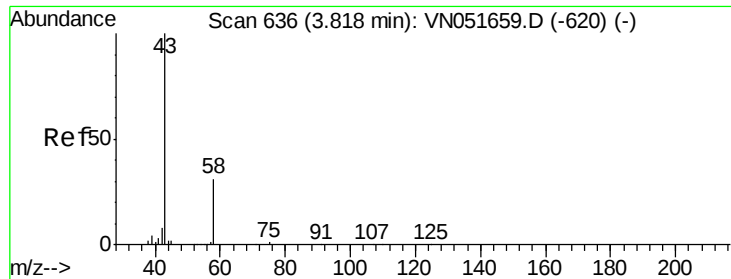
Tgt Ion: 56 Resp: 32

Ion Ratio Lower Upper

56 100

55 0.0 57.5 86.3#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

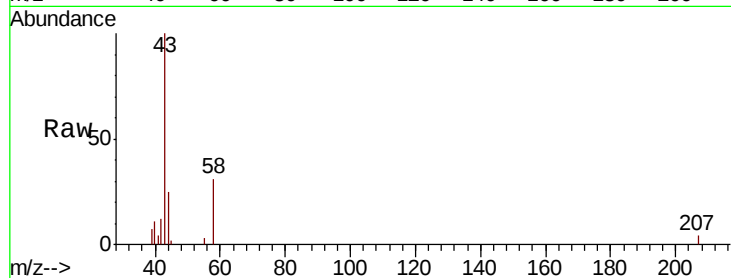
PB113684ZHE#06

Tot Ion: 43 Resp: 17402

Ion Ratio Lower Upper

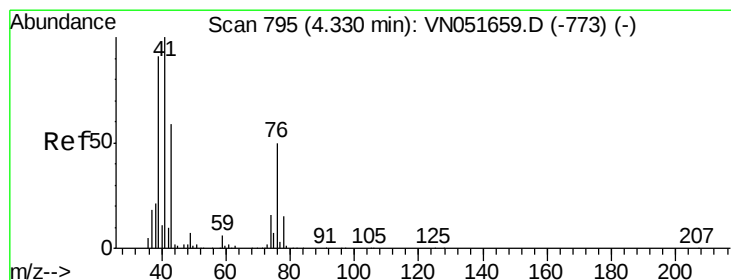
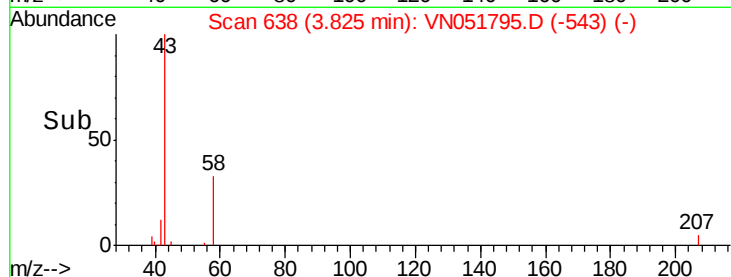
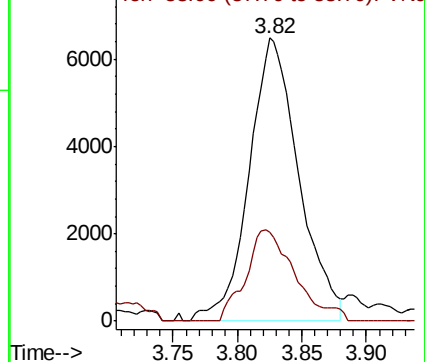
43 100

58 31.4 24.3 36.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.235 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051795.D

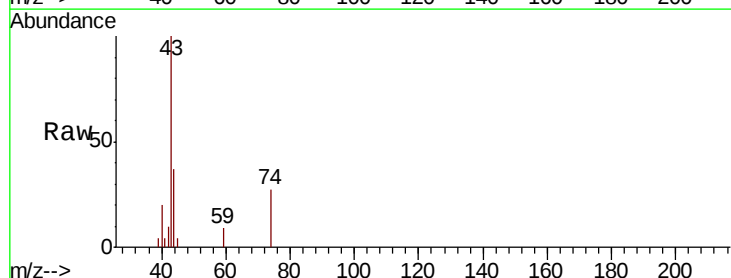
Acq: 10 Oct 2018 16:59

Tgt Ion: 43 Resp: 13219

Ion Ratio Lower Upper

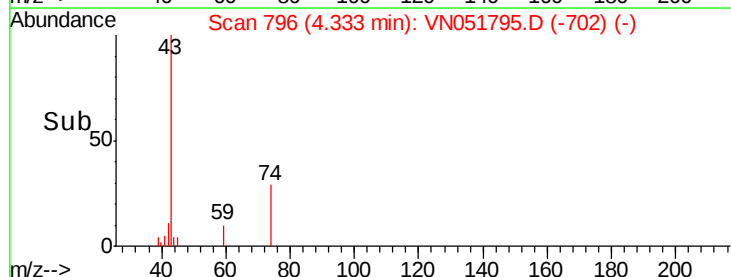
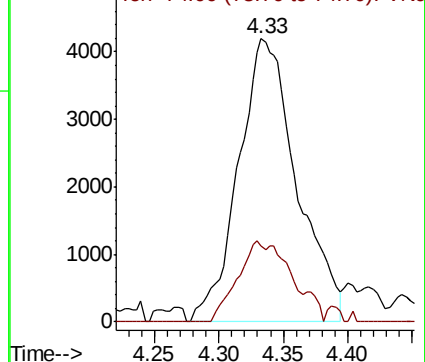
43 100

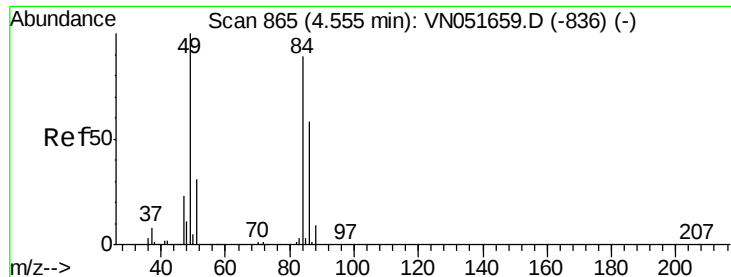
74 26.5 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

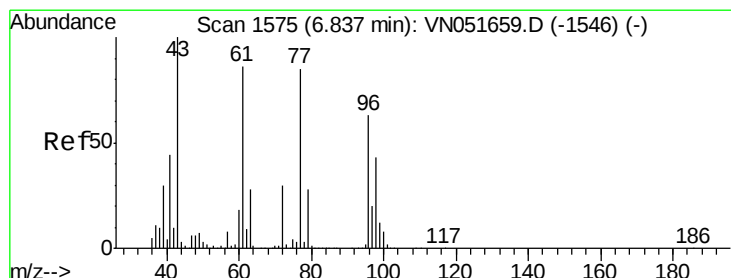
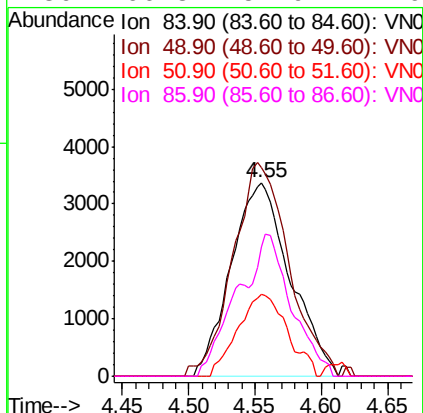
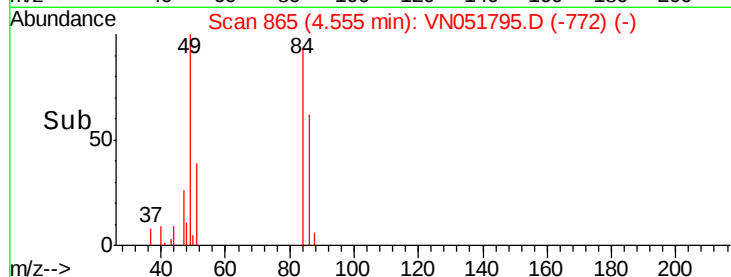
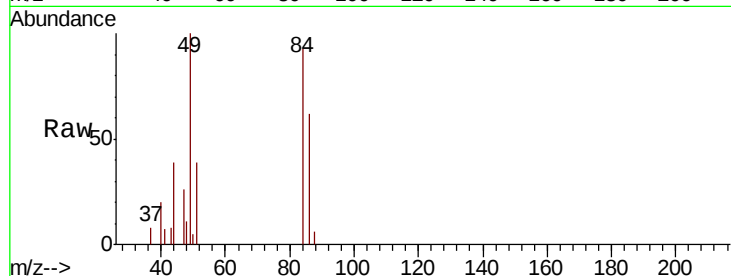




#20
Methvlene Chloride
Concen: 1.183 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051795.D
Acq: 10 Oct 2018 16:59

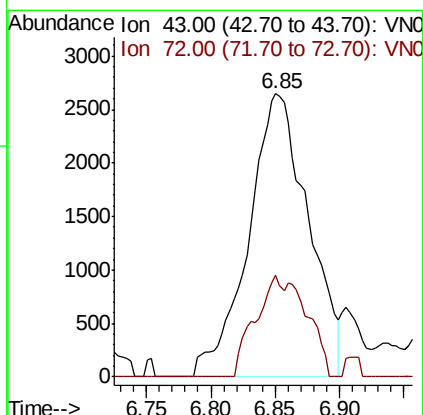
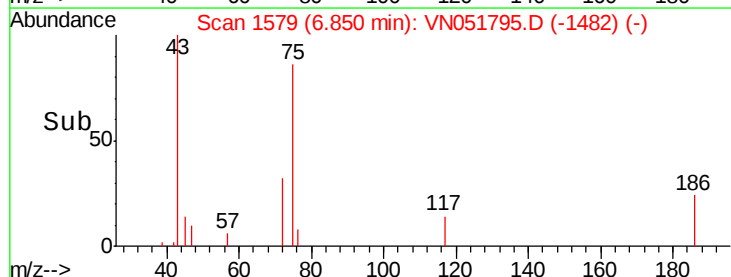
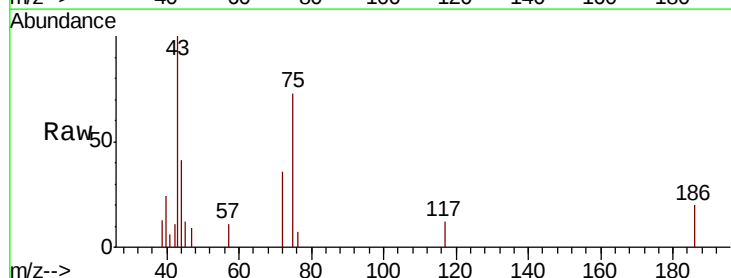
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#06

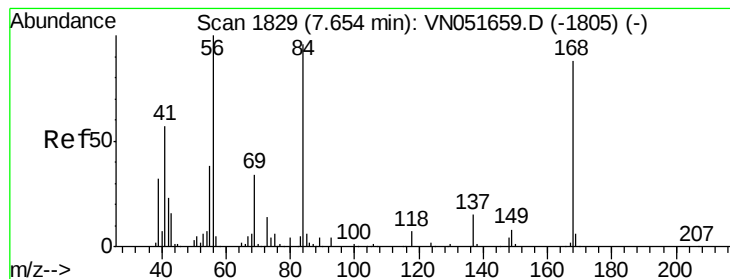
Tot Ion: 84 Resp: 10430
Ion Ratio Lower Upper
84 100
49 108.0 89.5 134.3
51 42.1 27.4 41.0#
86 66.8 51.9 77.9



#25
2-Butanone
Concen: 2.764 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051795.D
Acq: 10 Oct 2018 16:59

Tgt Ion: 43 Resp: 8555
Ion Ratio Lower Upper
43 100
72 35.9 24.2 36.2





#31

Cvclohexane

Concen: 0.973 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#06

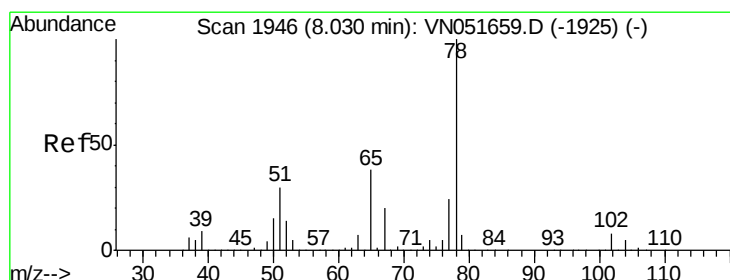
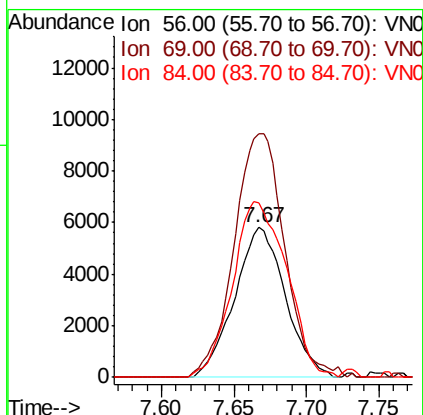
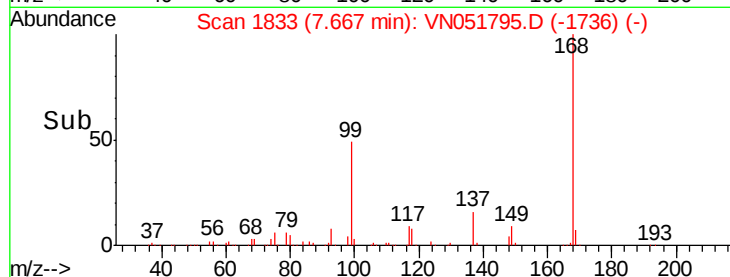
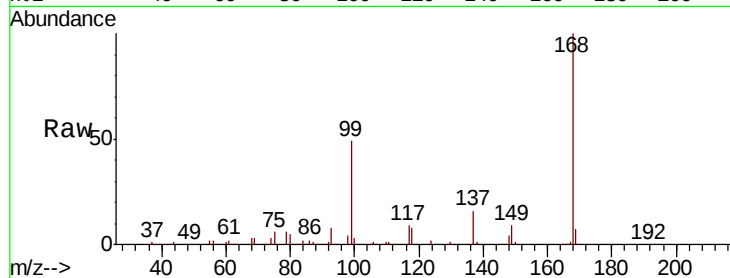
Tot Ion: 56 Resp: 14158

Ion Ratio Lower Upper

56 100

69 162.3 27.5 41.3#

84 116.3 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: VN051795.D

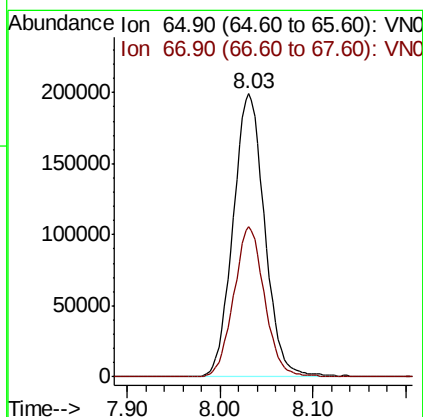
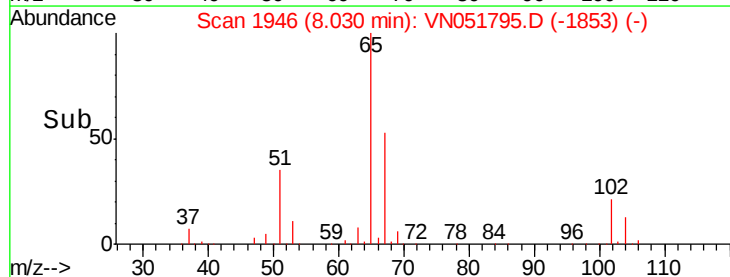
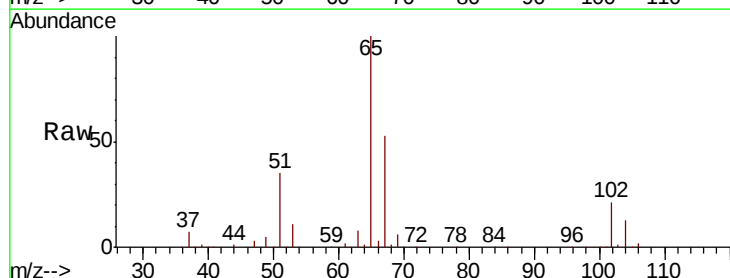
Acq: 10 Oct 2018 16:59

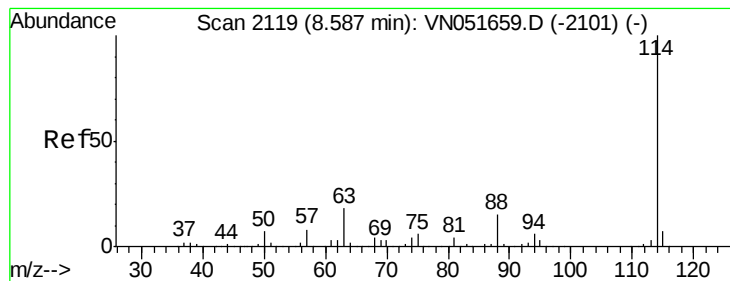
Tgt Ion: 65 Resp: 470665

Ion Ratio Lower Upper

65 100

67 51.8 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: VN051795.D

Acq: 10 Oct 2018 16:59

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MSVOA_N

ClientSampleId :

PB113684ZHE#06

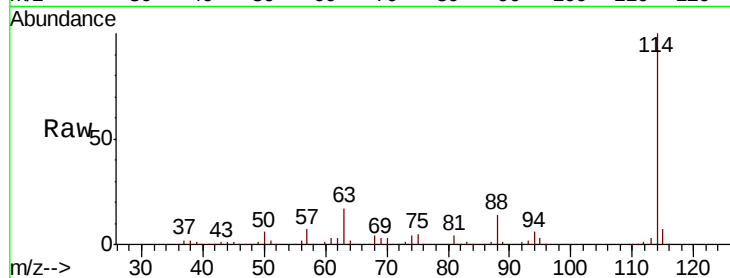
Tot Ion:114 Resp: 1174623

Ion Ratio Lower Upper

114 100

63 17.3 0.0 36.2

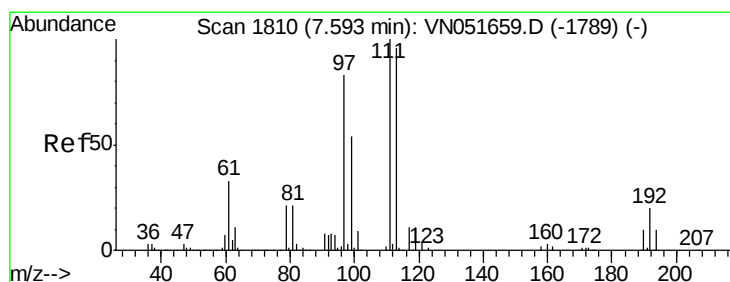
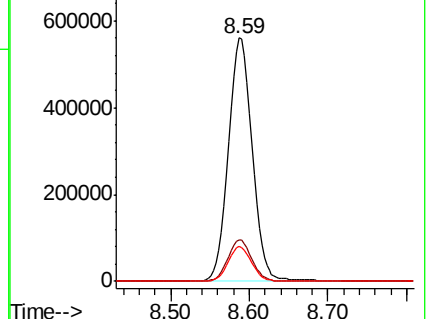
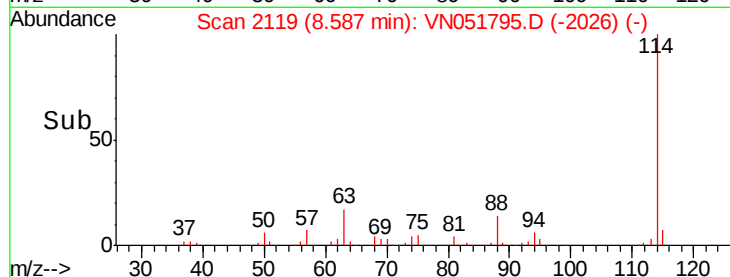
88 14.4 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

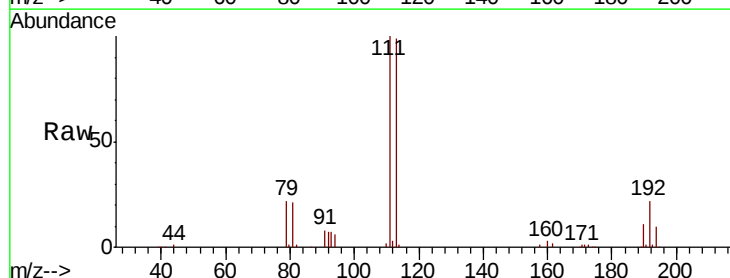
Tgt Ion:113 Resp: 431876

Ion Ratio Lower Upper

113 100

111 102.6 81.8 122.8

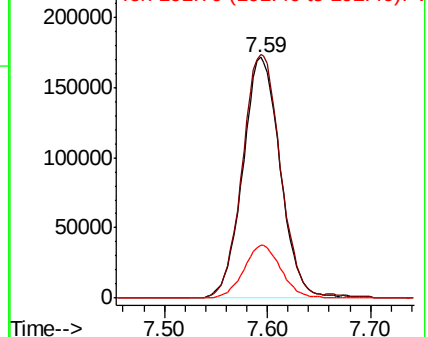
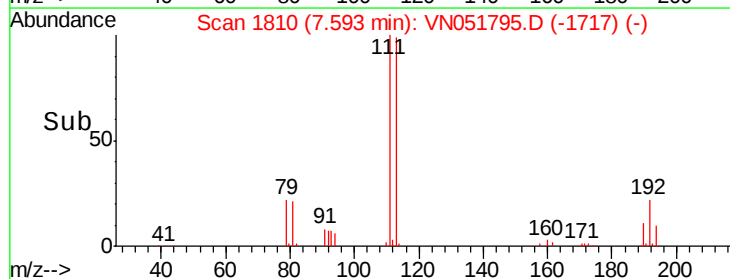
192 21.8 16.5 24.7

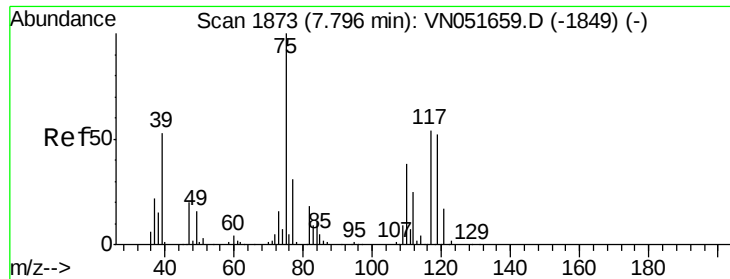


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.065 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#06

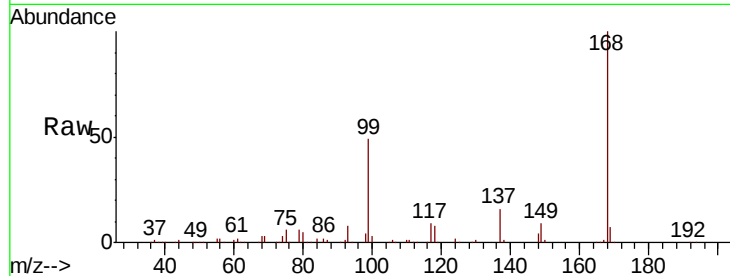
Tot Ion: 75 Resp: 49904

Ion Ratio Lower Upper

75 100

110 11.7 19.3 57.8#

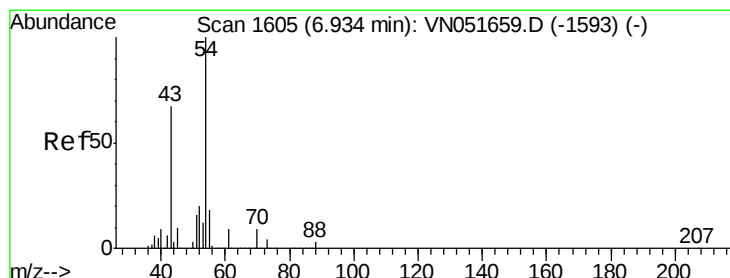
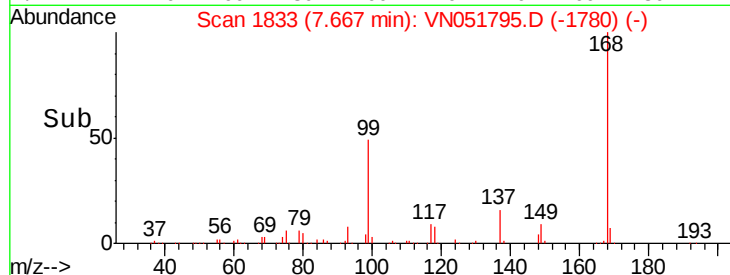
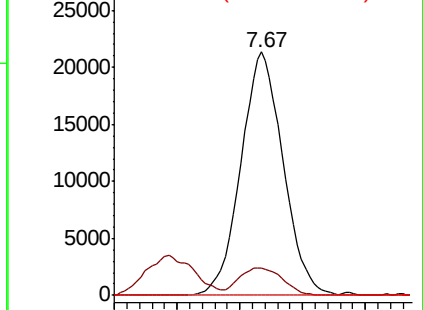
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051795.D (-1780) (-)

Ion 109.90 (109.60 to 110.60): VN051795.D (-1780) (-)

Ion 76.90 (76.60 to 77.60): VN051795.D (-1780) (-)



#37

Ethyl Acetate

Concen: 1.336 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. -0.08 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

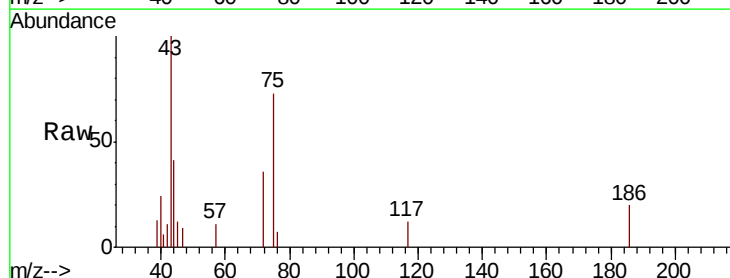
Tgt Ion: 43 Resp: 8555

Ion Ratio Lower Upper

43 100

61 1.1 11.8 17.6#

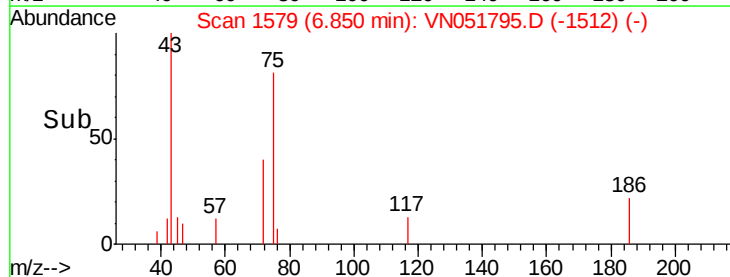
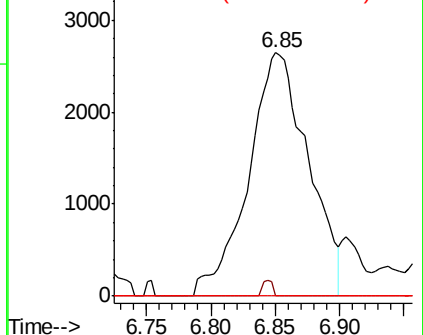
70 0.0 8.7 13.1#

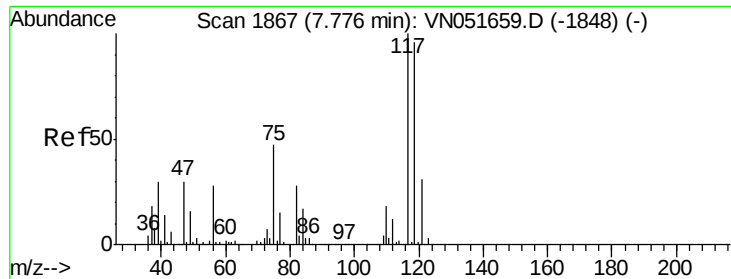


Abundance Ion 43.00 (42.70 to 43.70): VN051795.D (-1512) (-)

Ion 60.90 (60.60 to 61.60): VN051795.D (-1512) (-)

Ion 70.00 (69.70 to 70.70): VN051795.D (-1512) (-)





#38

Carbon Tetrachloride

Concen: 4.904 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#06

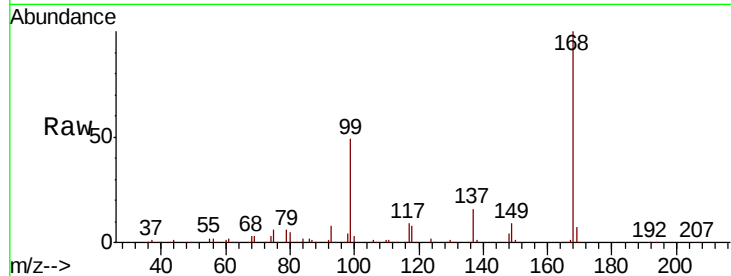
Tot Ion:117 Resp: 72252

Ion Ratio Lower Upper

117 100

119 3.1 77.0 115.6#

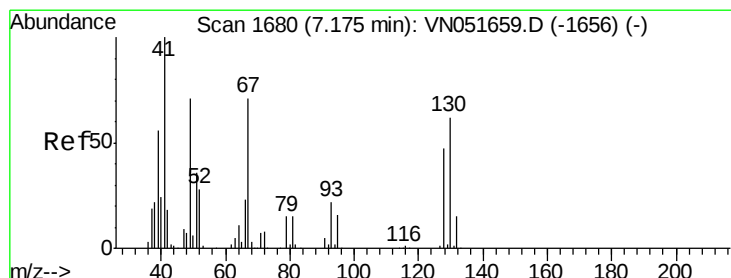
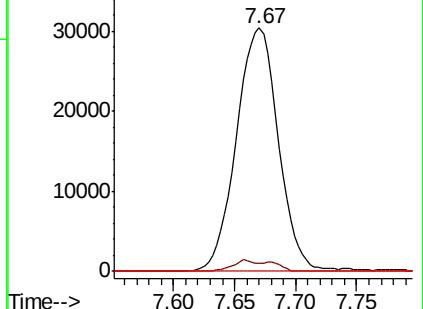
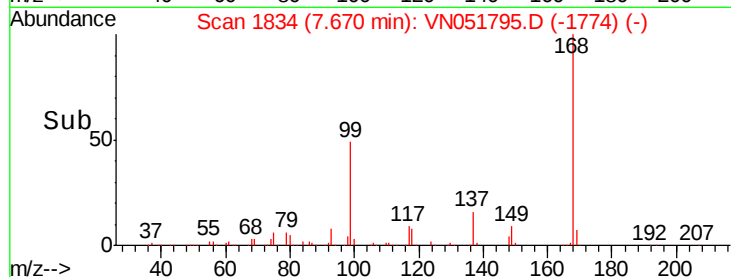
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: Below Cal

RT: 7.18 min Scan# 1682

Delta R.T. 0.01 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Tgt Ion: 41 Resp: 177

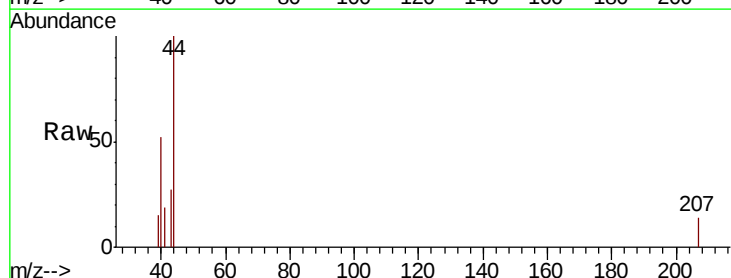
Ion Ratio Lower Upper

41 100

39 57.6 53.9 80.9

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#

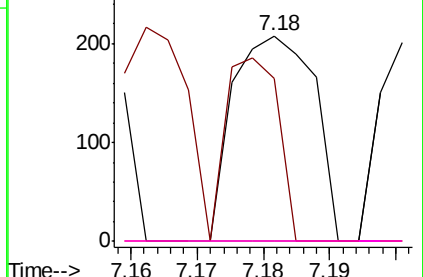
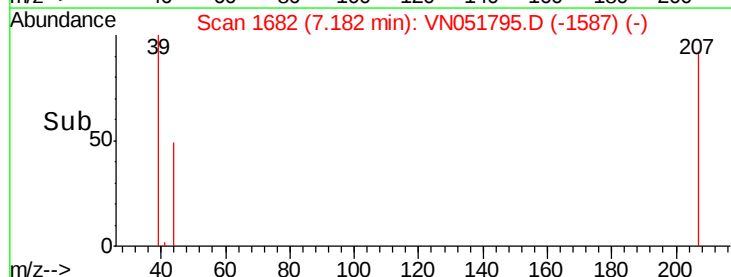


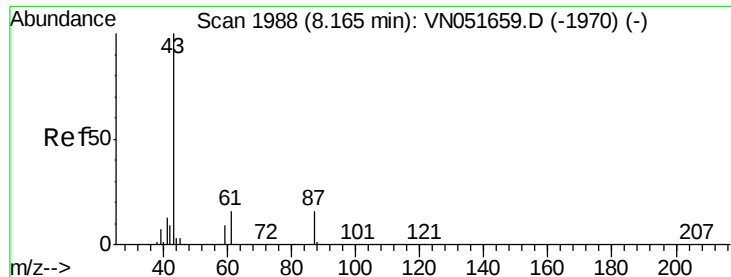
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 28.268 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#06

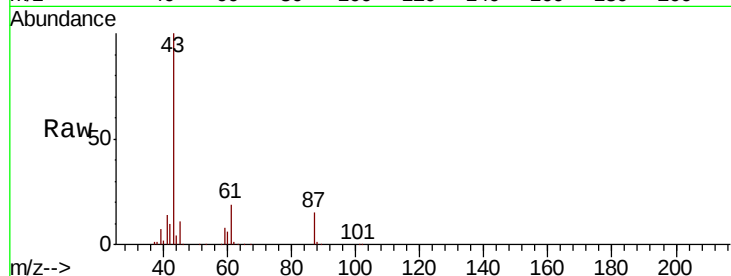
Tot Ion: 43 Resp: 377402

Ion Ratio Lower Upper

43 100

61 17.5 15.8 23.6

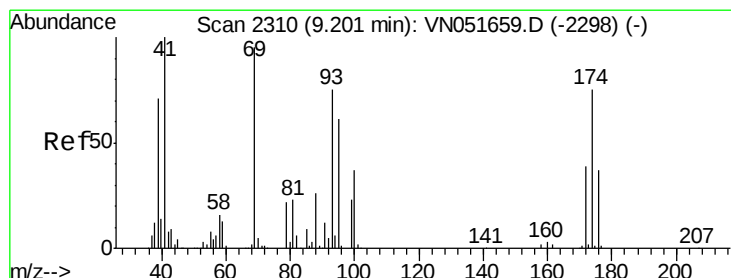
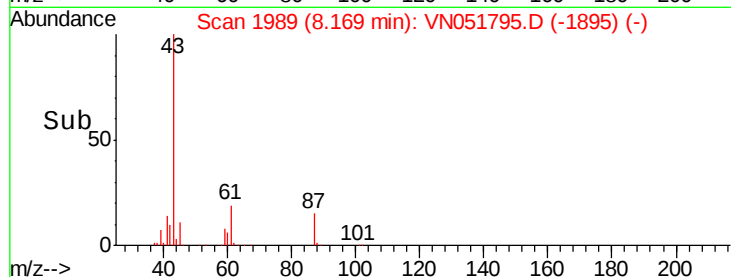
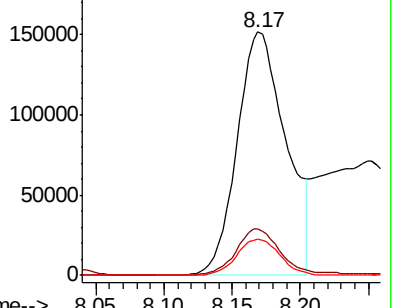
87 13.1 12.6 19.0



Abundance Ion 43.00 (42.70 to 43.70): VN051795.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN051795.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN051795.D (-1970) (-)



#48

Methyl methacrylate

Concen: 1.302 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

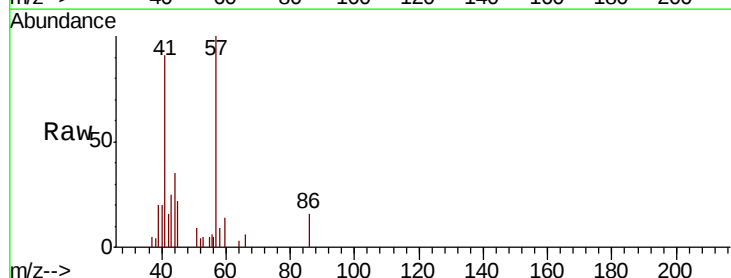
Tgt Ion: 41 Resp: 7942

Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

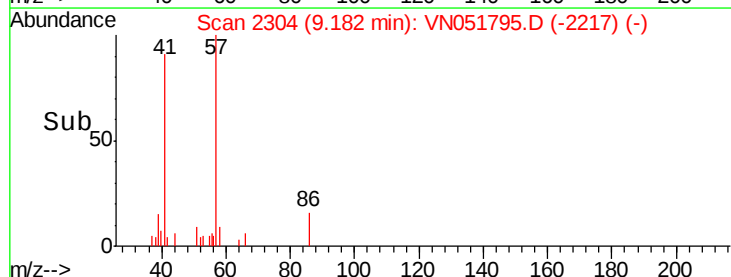
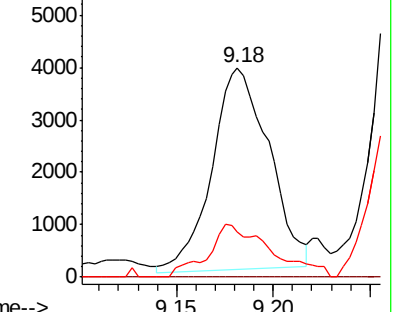
39 29.0 59.2 88.8#

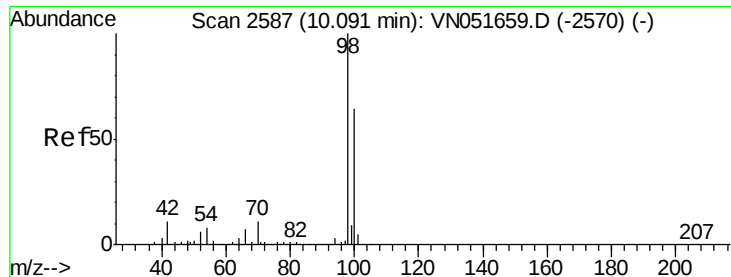


Abundance Ion 41.00 (40.70 to 41.70): VN051795.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN051795.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN051795.D (-2217) (-)





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

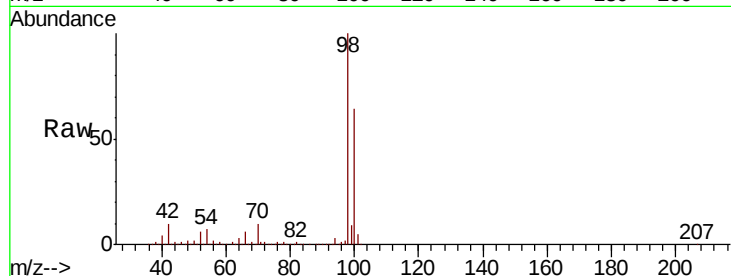
PB113684ZHE#06

Tot Ion: 98 Resp: 1662000

Ion Ratio Lower Upper

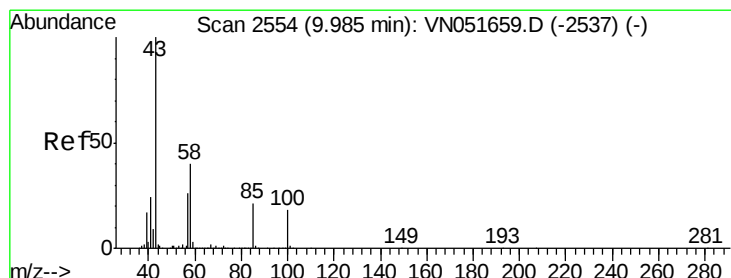
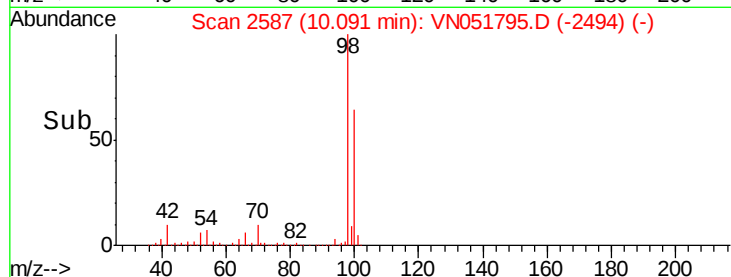
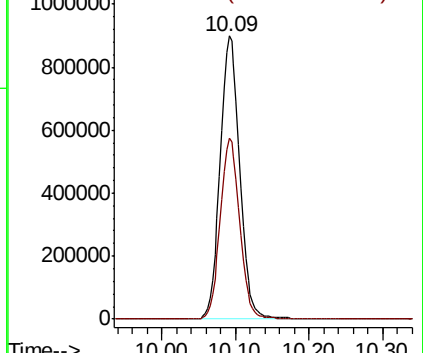
98 100

100 63.6 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.317 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051795.D

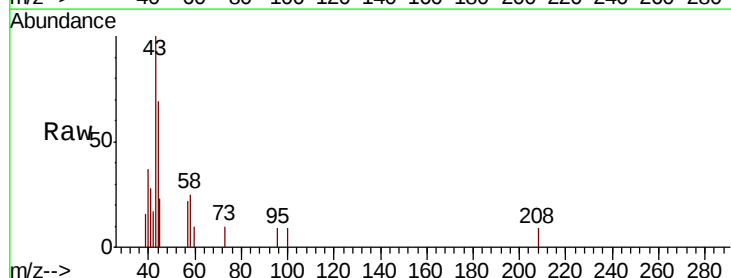
Acq: 10 Oct 2018 16:59

Tgt Ion: 43 Resp: 2144

Ion Ratio Lower Upper

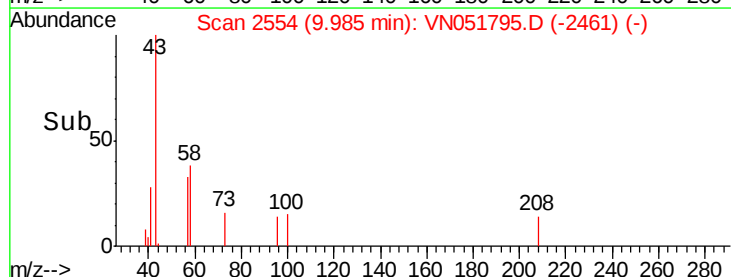
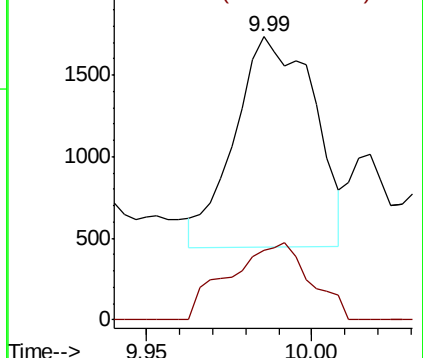
43 100

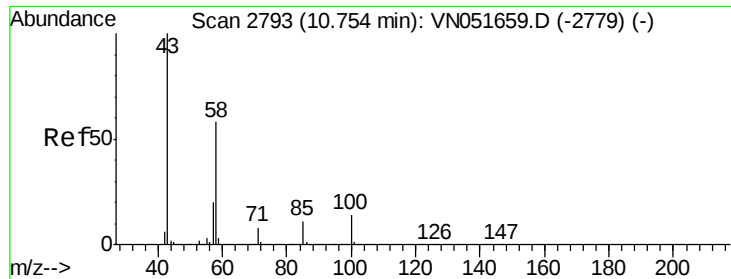
58 37.4 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

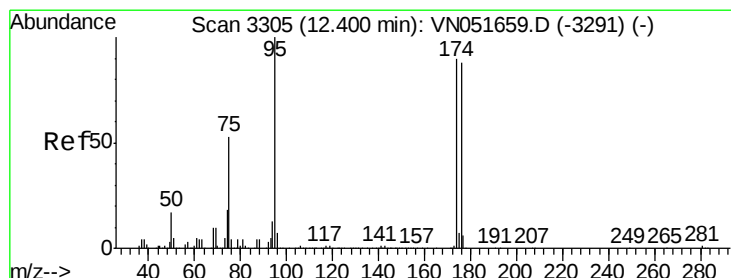
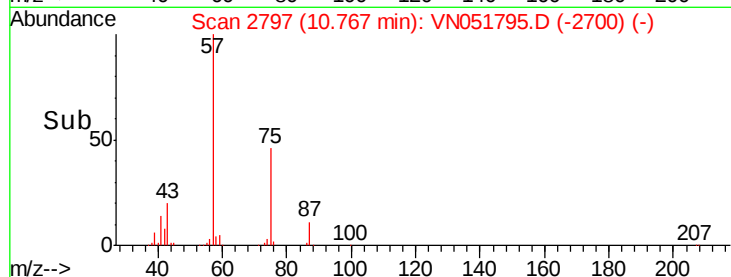
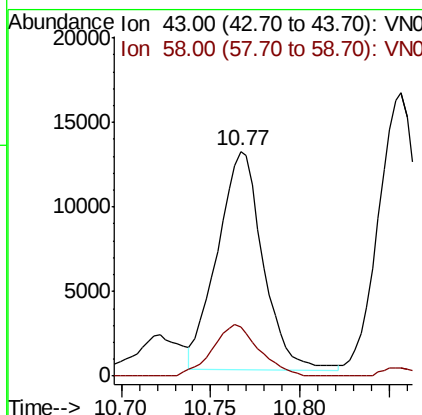
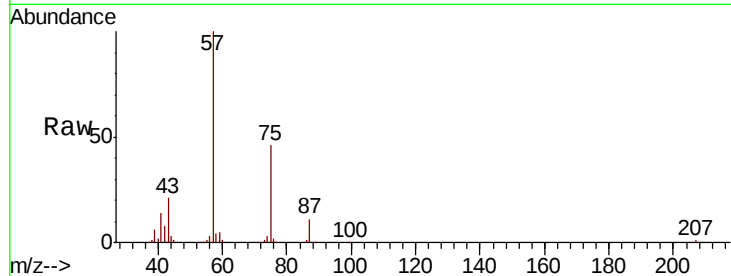




#59
2-Hexanone
Concen: 4.981 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051795.D
Acq: 10 Oct 2018 16:59

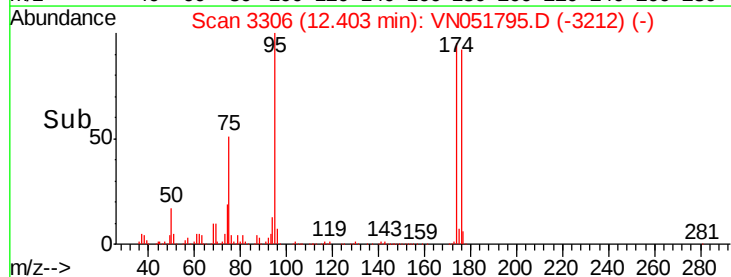
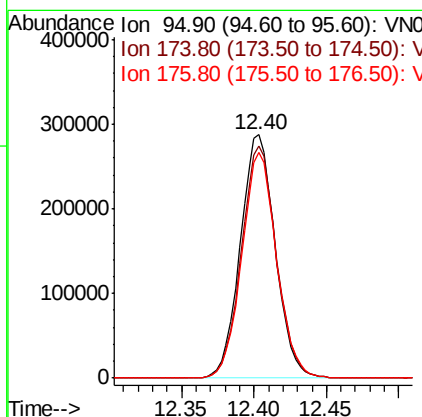
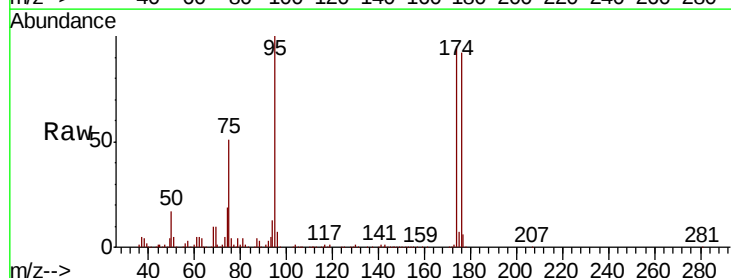
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#06

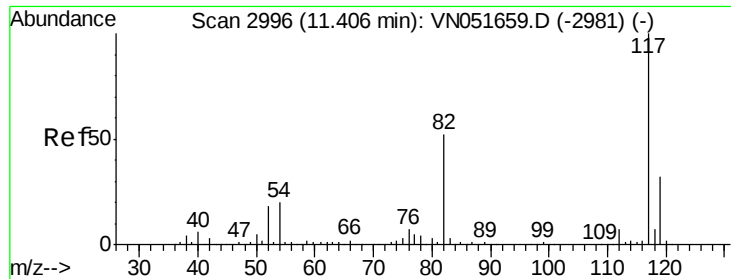
Tot Ion: 43 Resp: 22883
Ion Ratio Lower Upper
43 100
58 24.1 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051795.D
Acq: 10 Oct 2018 16:59

Tgt Ion: 95 Resp: 480897
Ion Ratio Lower Upper
95 100
174 95.5 0.0 182.8
176 92.1 0.0 176.4

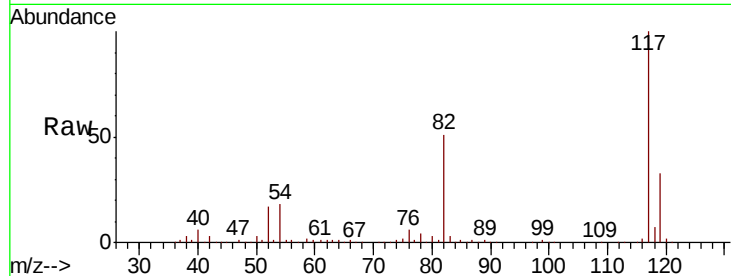




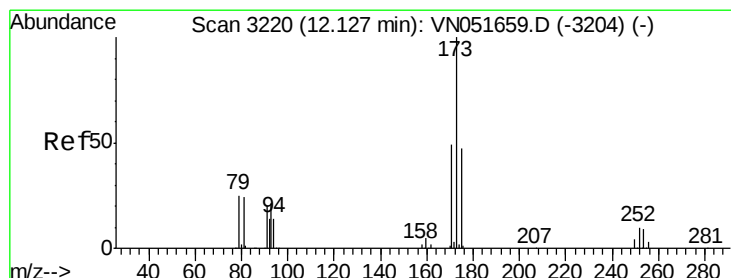
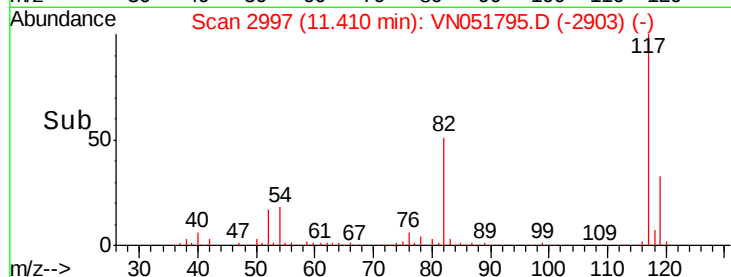
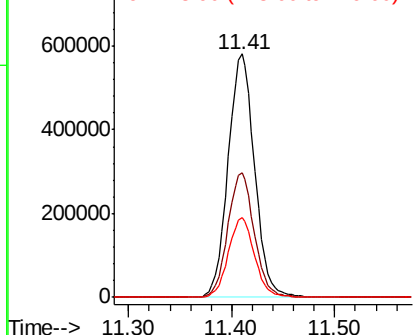
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051795.D
Acq: 10 Oct 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#06

Tot Ion:117 Resp: 1038568
Ion Ratio Lower Upper
117 100
82 51.2 41.3 61.9
119 32.6 25.9 38.9

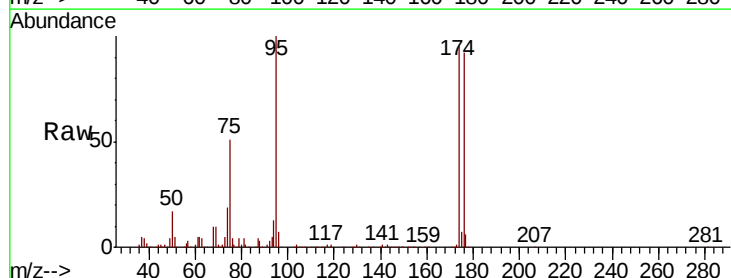


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

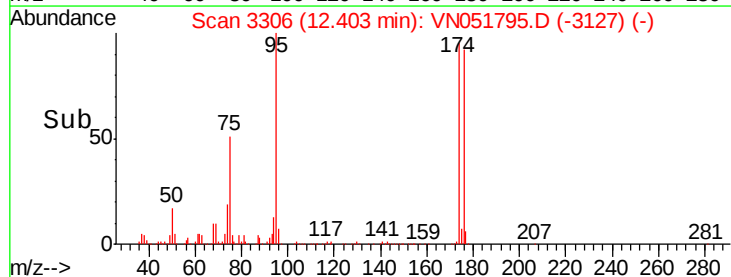
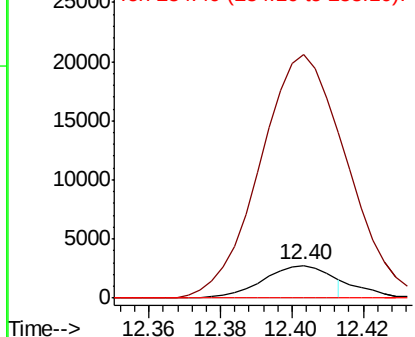


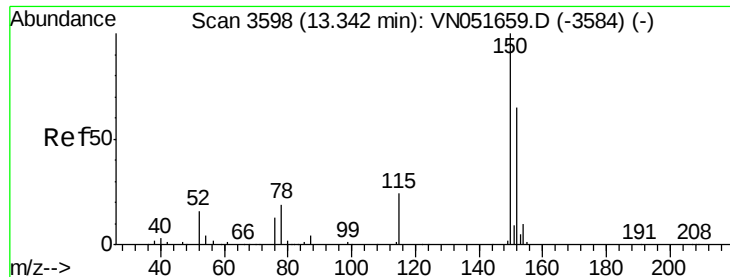
#71
Bromoform
Concen: 0.473 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051795.D
Acq: 10 Oct 2018 16:59

Tgt Ion:173 Resp: 3626
Ion Ratio Lower Upper
173 100
175 796.6 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: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#06

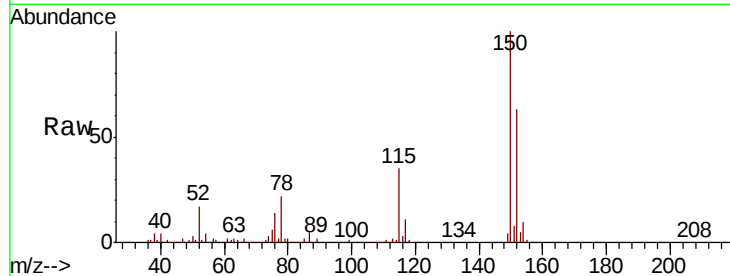
Tot Ion:152 Resp: 400635

Ion Ratio Lower Upper

152 100

115 54.5 28.6 85.8

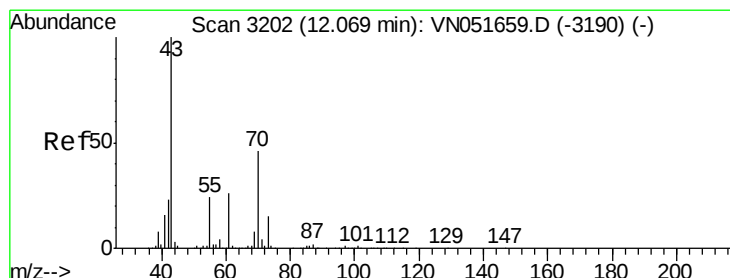
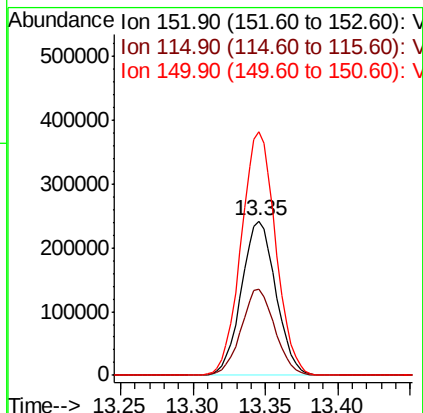
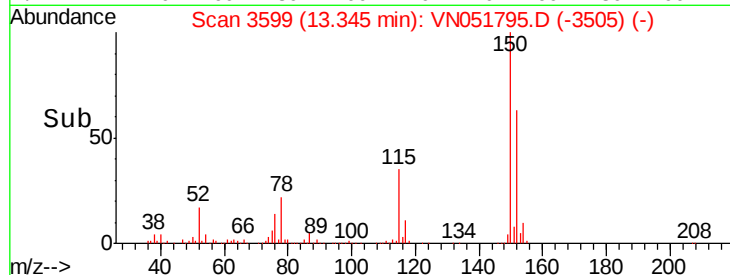
150 157.6 0.0 352.4



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: 12.09 min Scan# 3208

Delta R.T. 0.02 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Tgt Ion: 43 Resp: 187

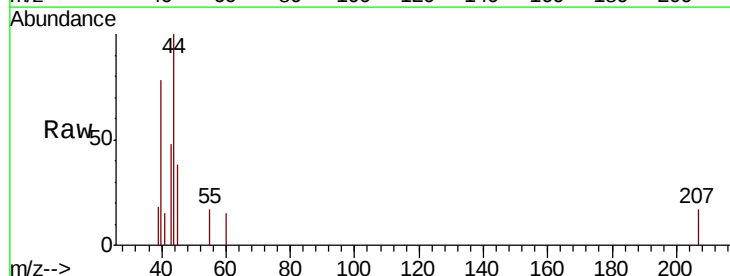
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 118.7 19.1 28.7#

61 0.0 20.8 31.2#

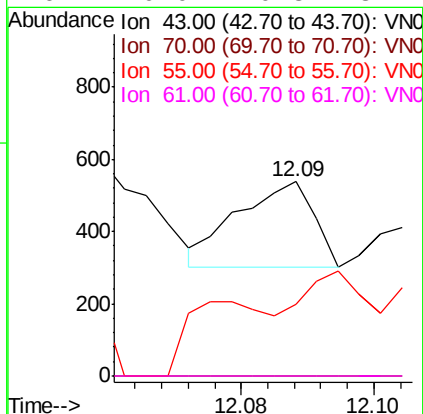
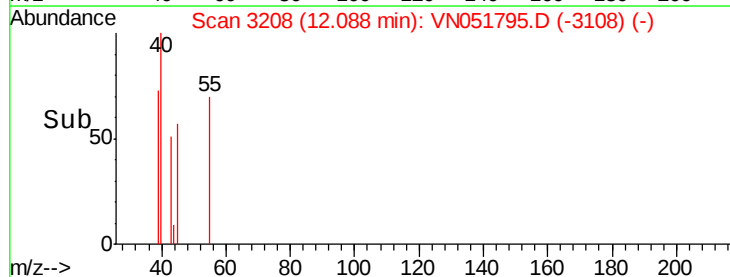


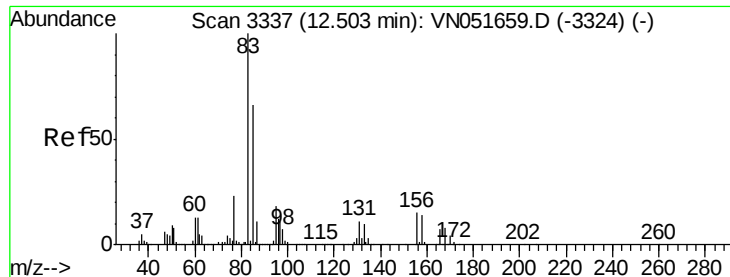
Abundance Ion 43.00 (42.70 to 43.70): VNO

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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.47 min Scan# 3328

Delta R.T. -0.03 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#06

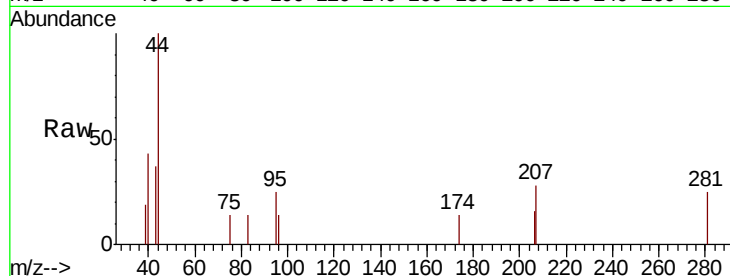
Tot Ion: 83 Resp: 62

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

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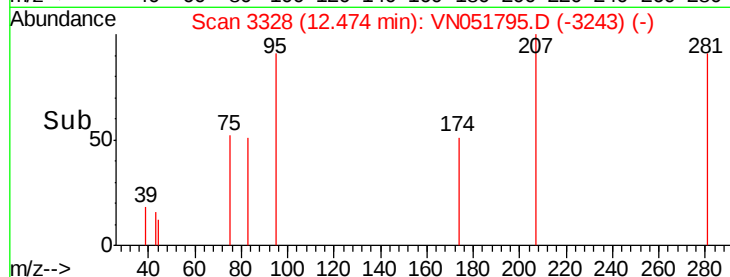
12.47

12.47

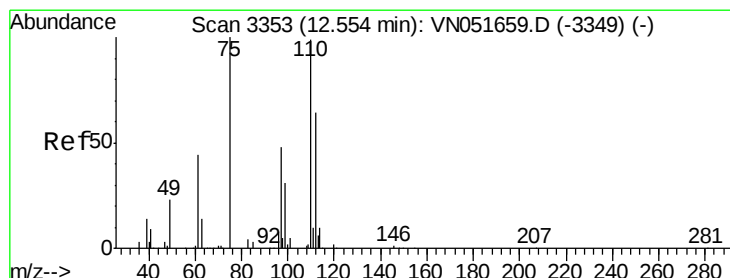
12.47

12.47

12.47



Time--> 12.46 12.47 12.48



#76

1,2,3-Trichloropropane

Concen: 49.990 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051795.D

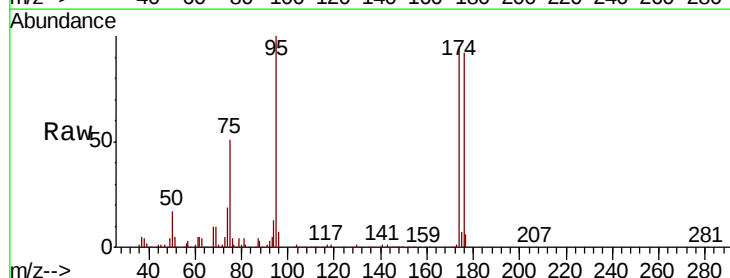
Acq: 10 Oct 2018 16:59

Tgt Ion: 75 Resp: 248857

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

12.40

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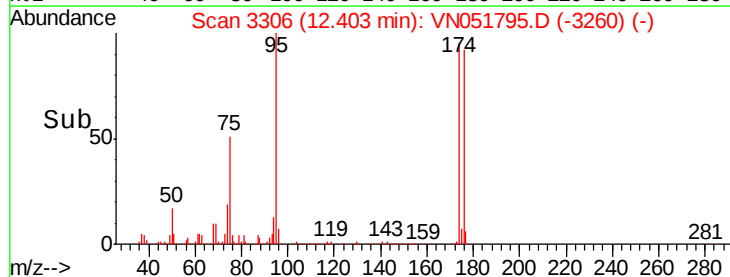
12.40

12.40

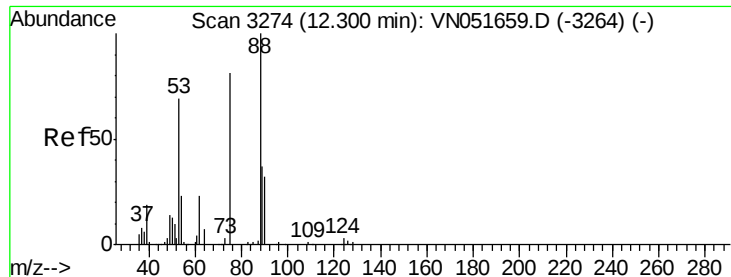
12.40

12.40

12.40



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 114.181 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051795.D

Acq: 10 Oct 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#06

Tot Ion: 75 Resp: 248857

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.1 39.4 59.2#

