

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052128.D
 Acq On : 2 Nov 2018 14:49
 Operator : MD\SY
 Sample : PB114370ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#17

Quant Time: Nov 02 23:13:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	273661	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	512442	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	496713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	203129	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	239596	54.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.12%	
35) Dibromofluoromethane	7.60	113	198248	61.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.68%	
50) Toluene-d8	10.09	98	769965	60.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.18%	
62) 4-Bromofluorobenzene	12.40	95	263038	55.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.84%	

Target Compounds

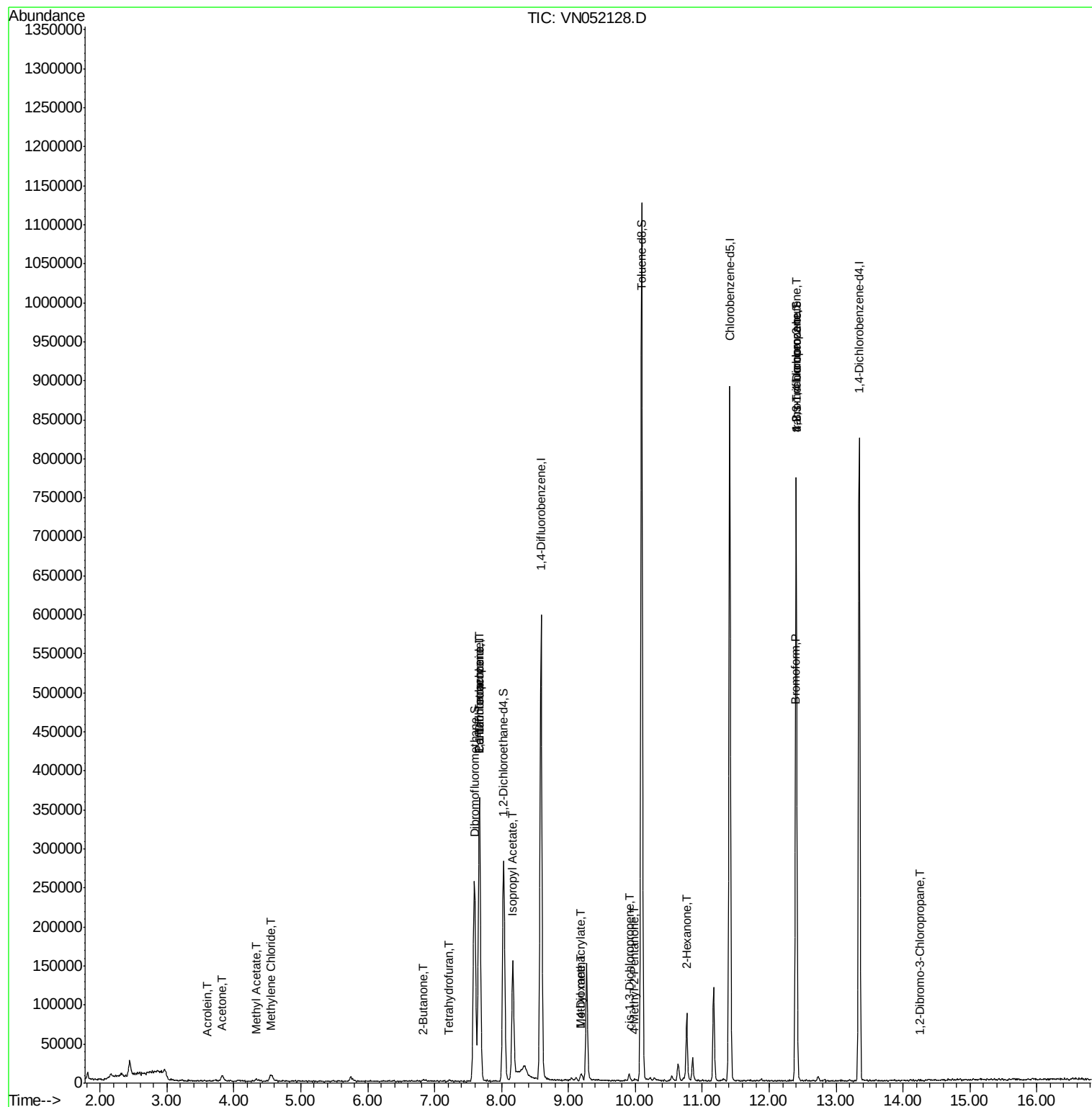
					Qvalue	
13) Acrolein	3.60	56	30	24.160	ug/l #	1
16) Acetone	3.82	43	14471	15.438	ug/l	90
18) Methyl Acetate	4.33	43	4245	1.423	ug/l #	62
20) Methylene Chloride	4.56	84	5701	1.596	ug/l #	80
25) 2-Butanone	6.83	43	1106	0.752	ug/l	97
29) Tetrahydrofuran	7.23	42	1238	1.264	ug/l #	46
31) Cyclohexane	7.67	56	7210	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	23641	4.537	ug/l #	47
38) Carbon Tetrachloride	7.67	117	27891	6.208	ug/l #	16
43) Isopropyl Acetate	8.17	43	192758	31.075	ug/l	96
48) Methyl methacrylate	9.18	41	4549	1.446	ug/l #	21
49) 1,4-Dioxane	9.18	88	32	26.244	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	1028	0.305	ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	1902	0.324	ug/l #	55
59) 2-Hexanone	10.77	43	11775	4.901	ug/l #	60
71) Bromoform	12.38	173	62	2.206	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	137689	37.029	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	137689	122.907	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	95	1.074	ug/l #	11

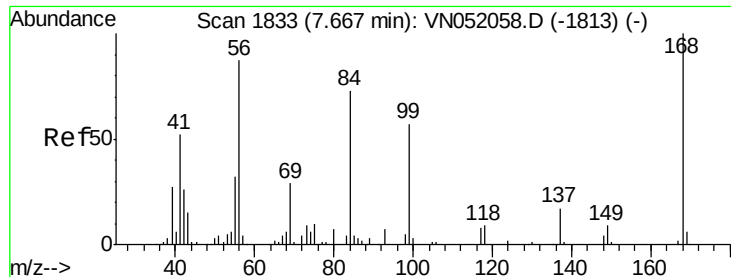
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 31 02:45:22 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

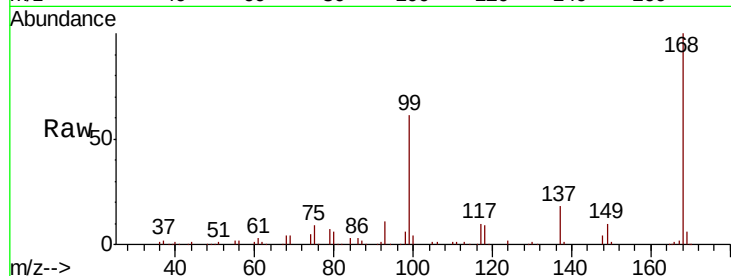
PB114370ZHE#17

Tot Ion:168 Resp: 273661

Ion Ratio Lower Upper

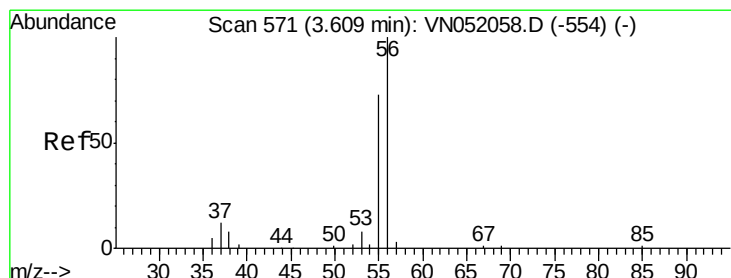
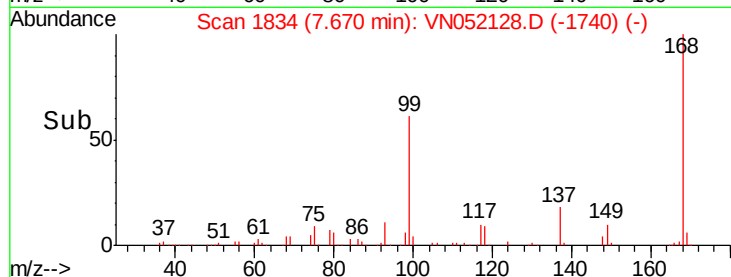
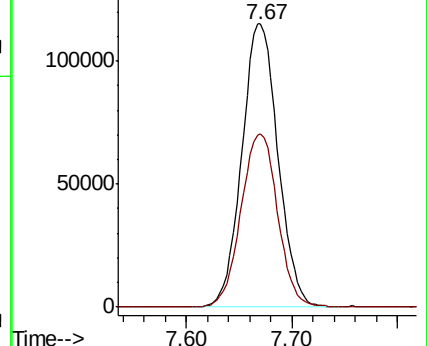
168 100

99 61.4 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 24.160 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052128.D

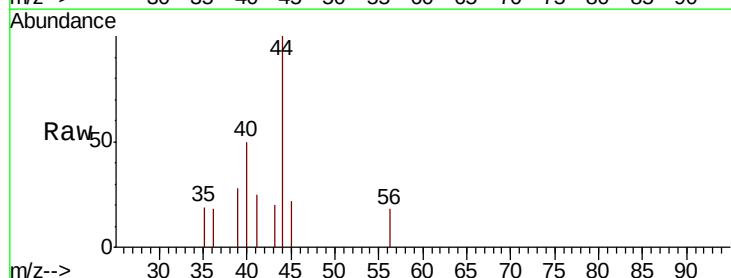
Acq: 2 Nov 2018 14:49

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

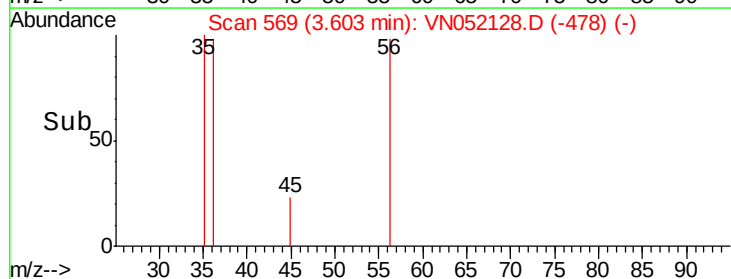
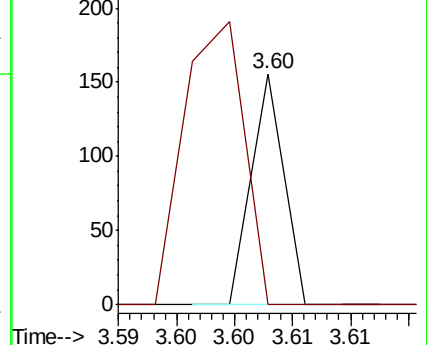
56 100

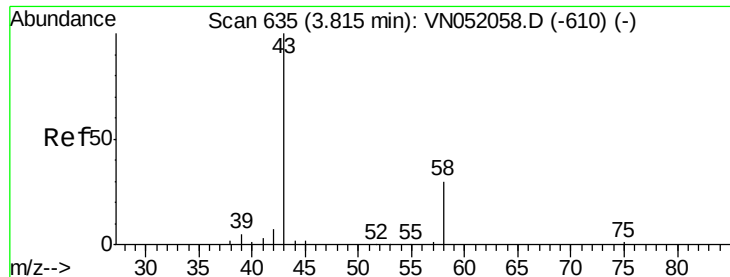
55 226.7 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO





#16

Acetone

Concen: 15.438 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

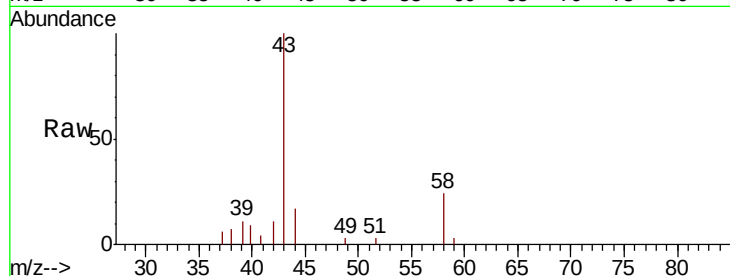
PB114370ZHE#17

Tot Ion: 43 Resp: 14471

Ion Ratio Lower Upper

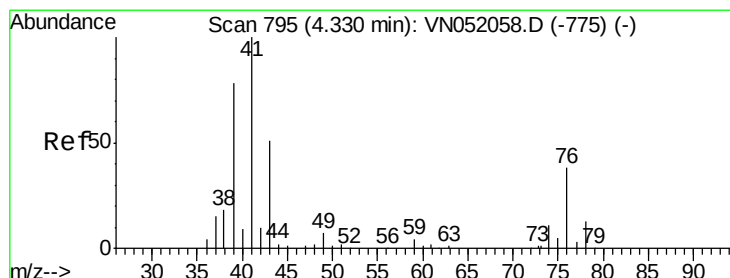
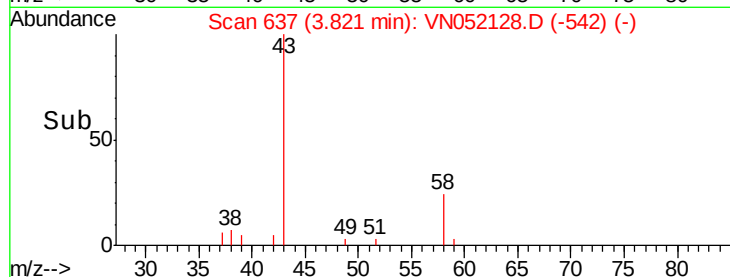
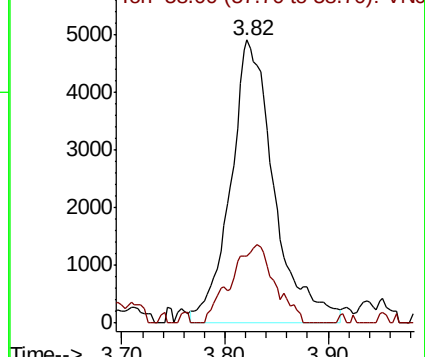
43 100

58 24.6 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.423 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN052128.D

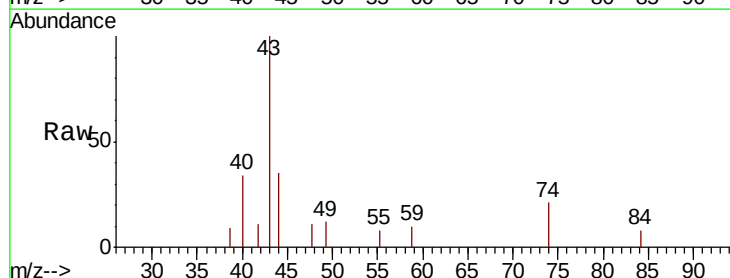
Acq: 2 Nov 2018 14:49

Tgt Ion: 43 Resp: 4245

Ion Ratio Lower Upper

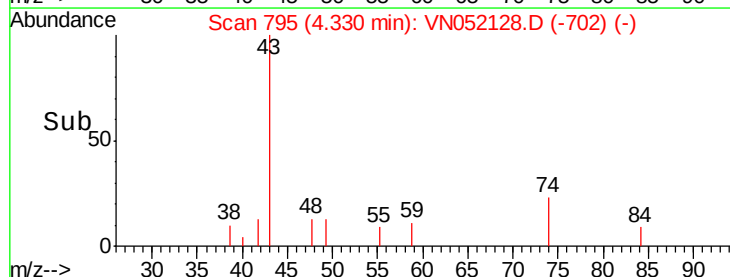
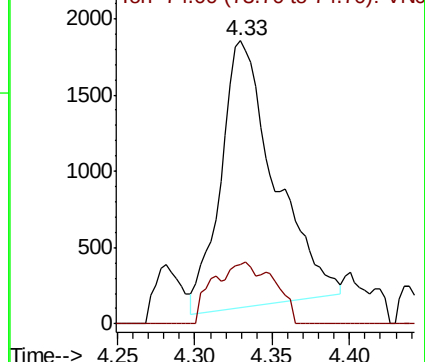
43 100

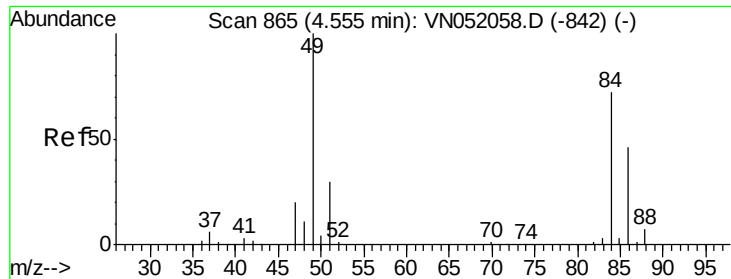
74 4.4 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

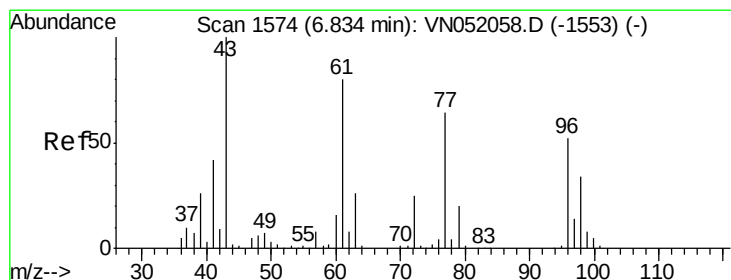
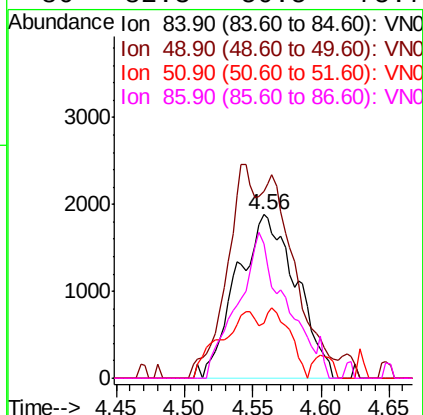
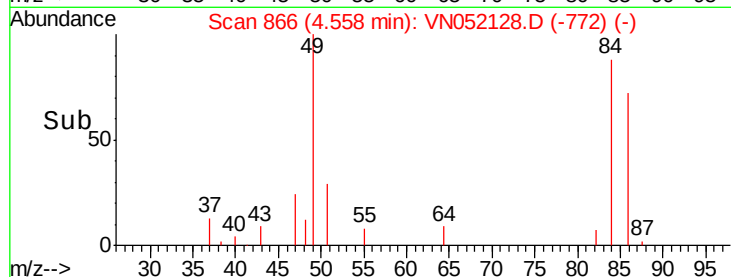
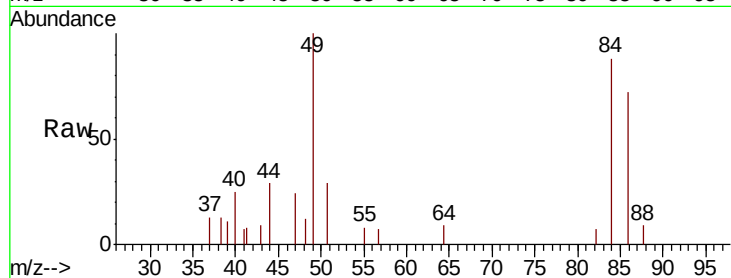




#20
Methvlene Chloride
Concen: 1.596 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052128.D
Acq: 2 Nov 2018 14:49

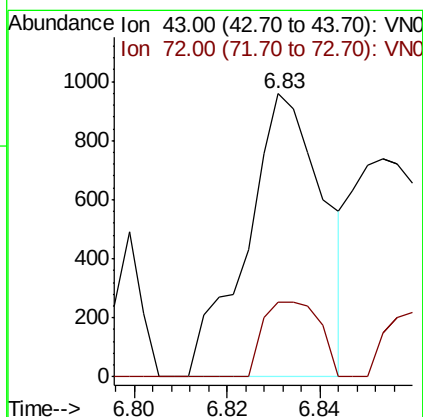
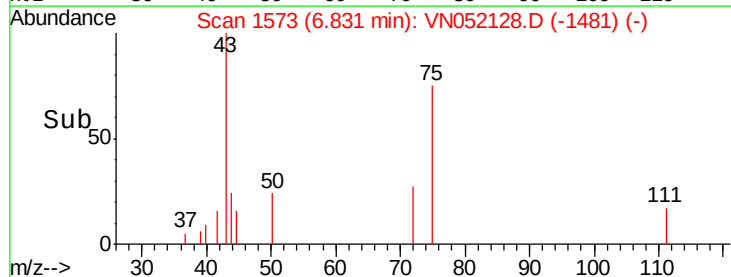
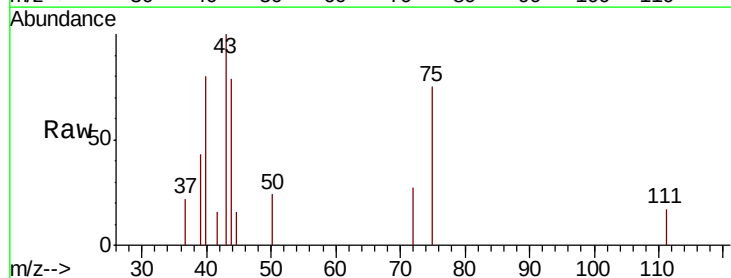
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#17

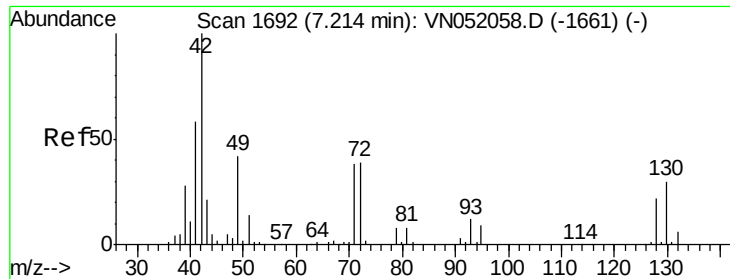
Tot Ion: 84 Resp: 5701
Ion Ratio Lower Upper
84 100
49 114.1 110.6 165.8
51 33.4 33.7 50.5#
86 82.3 50.5 75.7#



#25
2-Butanone
Concen: 0.752 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN052128.D
Acq: 2 Nov 2018 14:49

Tgt Ion: 43 Resp: 1106
Ion Ratio Lower Upper
43 100
72 26.5 20.2 30.2





#29

Tetrahydrofuran

Concen: 1.264 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#17

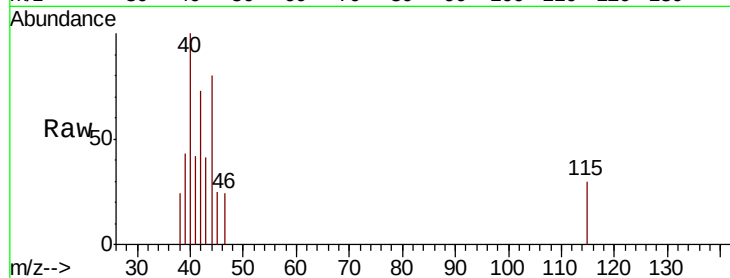
Tot Ion: 42 Resp: 1238

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

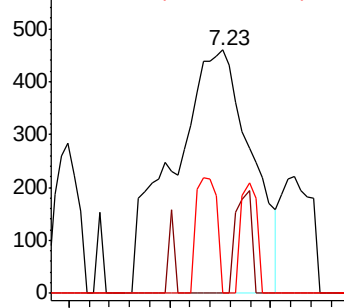
71 12.7 30.6 46.0#



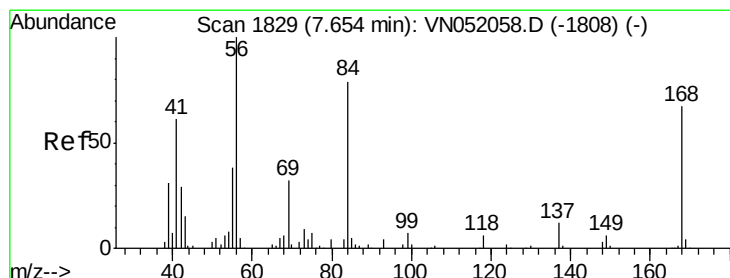
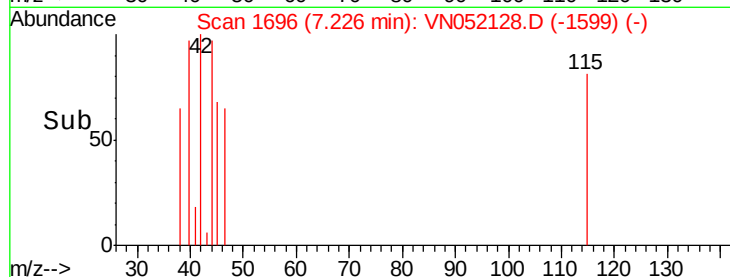
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

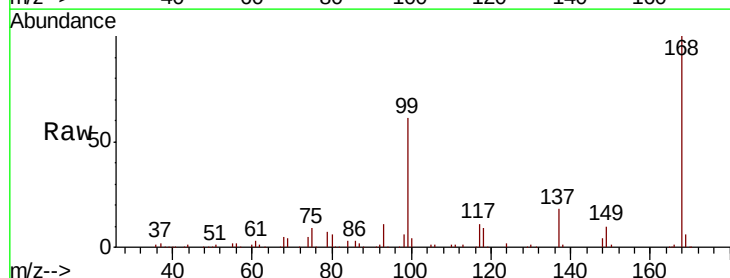
Tgt Ion: 56 Resp: 7210

Ion Ratio Lower Upper

56 100

69 159.9 25.8 38.6#

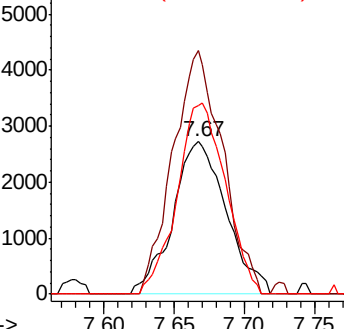
84 124.2 63.5 95.3#



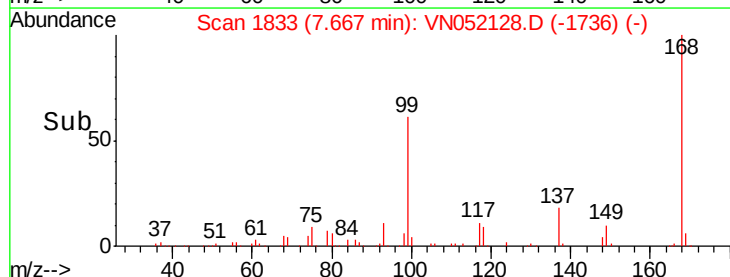
Abundance Ion 56.00 (55.70 to 56.70): VN0

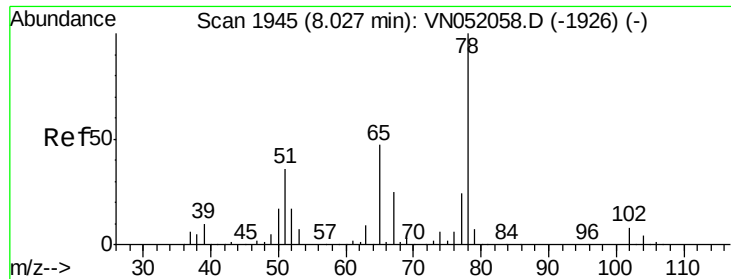
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

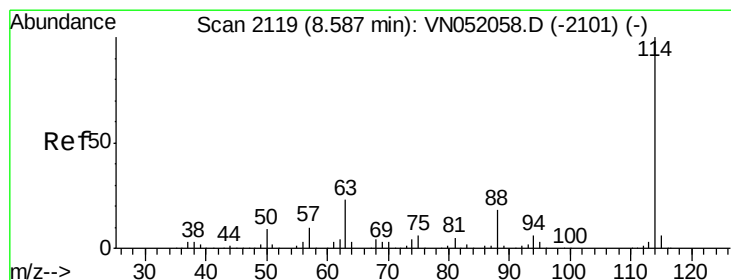
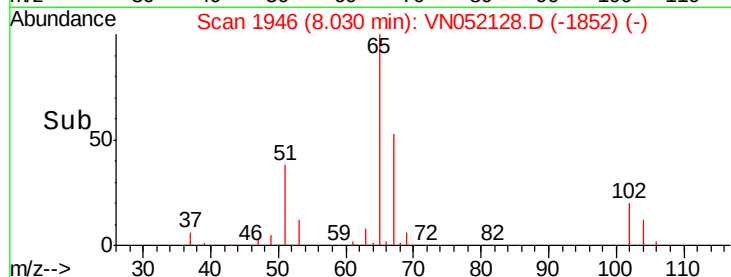
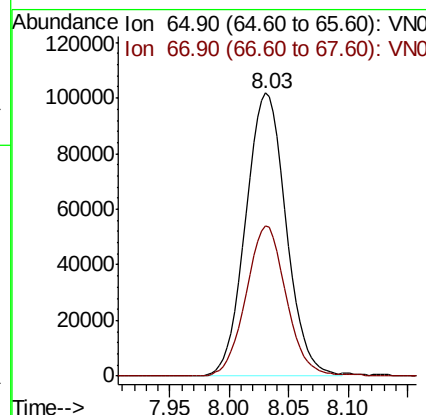
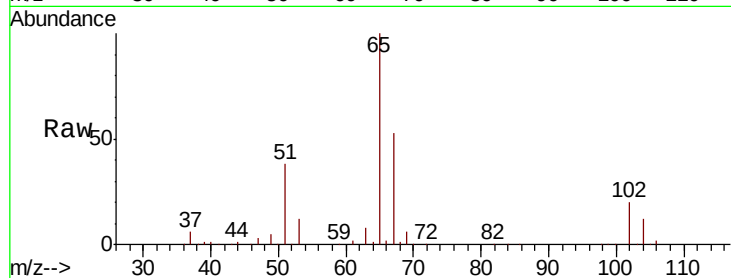




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052128.D
 Acq: 2 Nov 2018 14:49

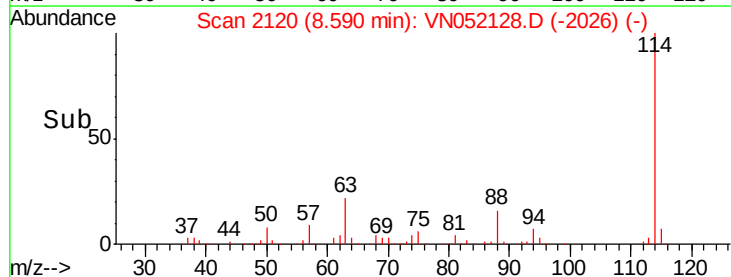
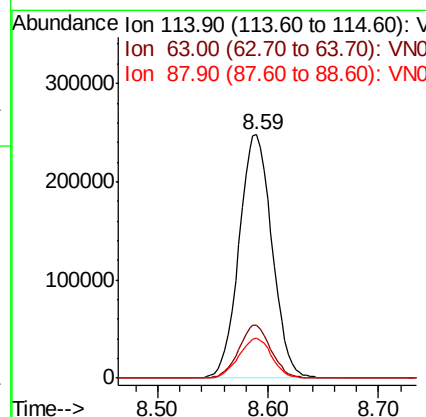
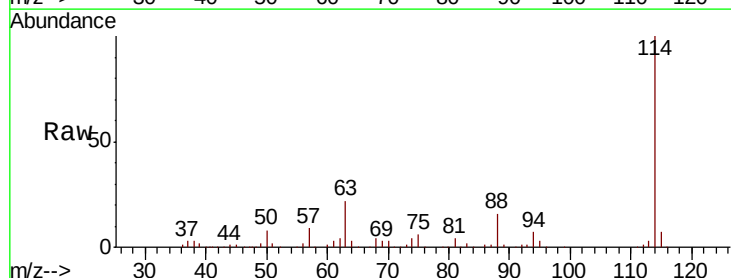
Instrument :
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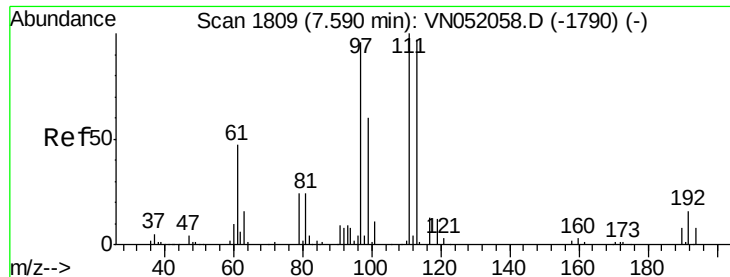
Tot Ion: 65 Resp: 239596
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN052128.D
 Acq: 2 Nov 2018 14:49

Tgt Ion: 114 Resp: 512442
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 46.0
 88 16.3 0.0 35.4

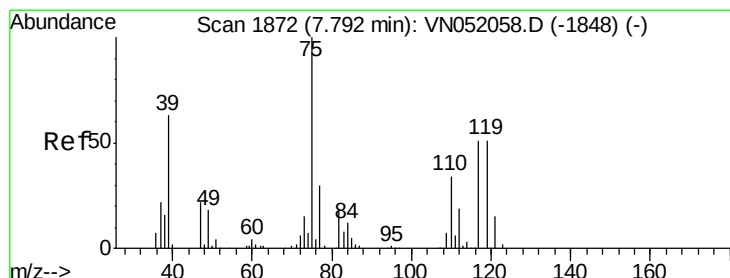
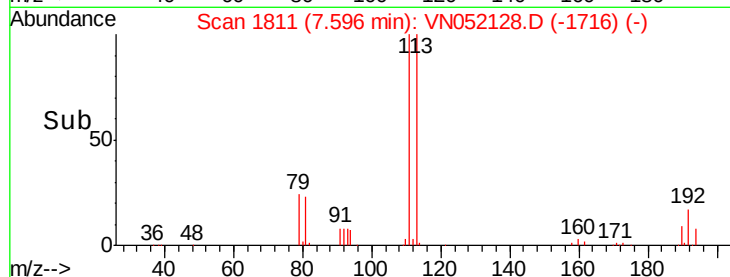
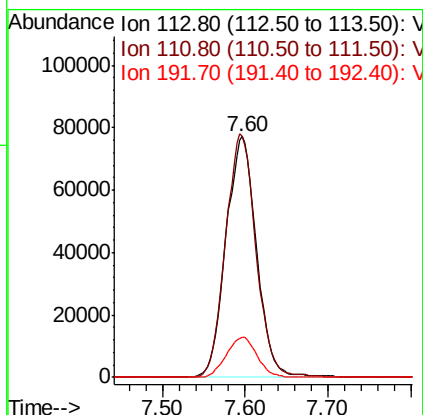
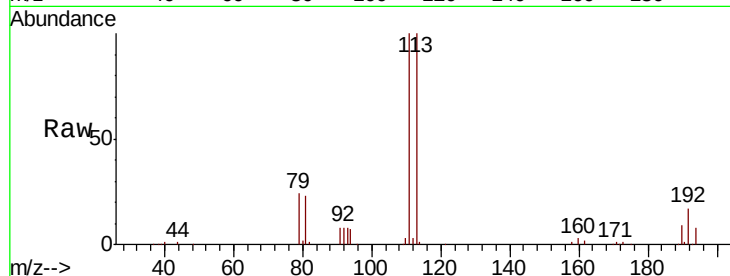




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.60 min Scan# 1811
 Delta R.T. 0.01 min
 Lab File: VN052128.D
 Acq: 2 Nov 2018 14:49

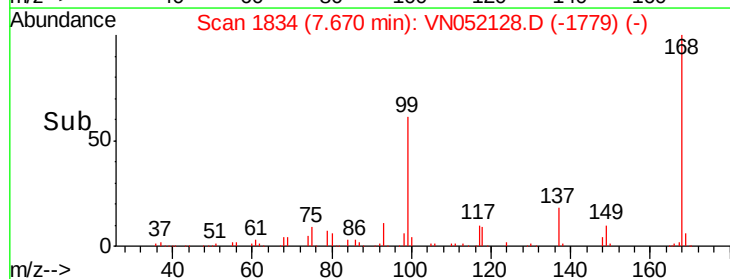
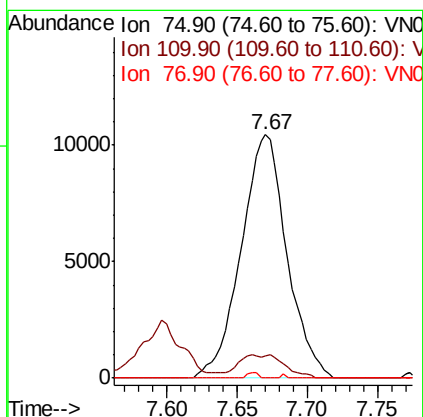
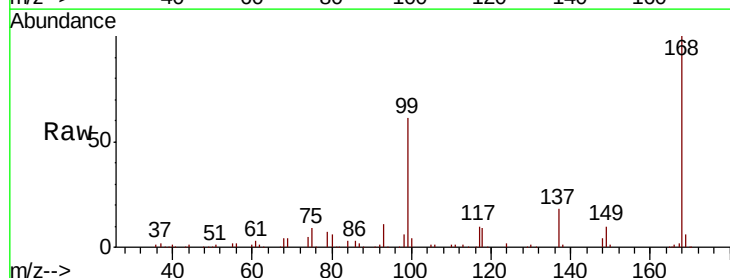
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#17

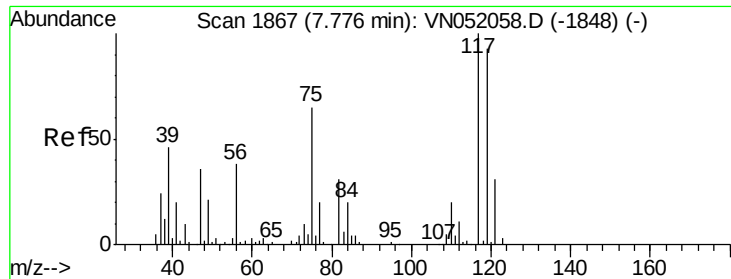
Tot Ion:113 Resp: 198248
 Ion Ratio Lower Upper
 113 100
 111 99.7 83.1 124.7
 192 16.6 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.537 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052128.D
 Acq: 2 Nov 2018 14:49

Tgt Ion: 75 Resp: 23641
 Ion Ratio Lower Upper
 75 100
 110 3.4 16.0 48.0#
 77 0.5 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 6.208 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#17

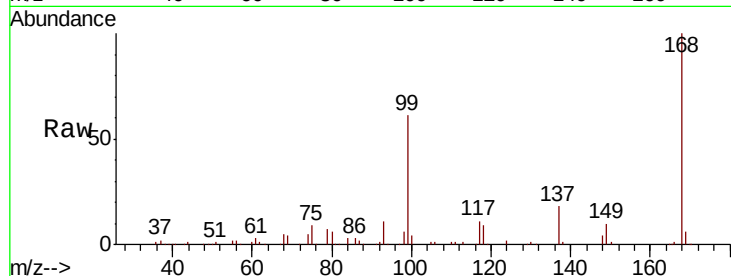
Tot Ion:117 Resp: 27891

Ion Ratio Lower Upper

117 100

119 3.2 74.8 112.2#

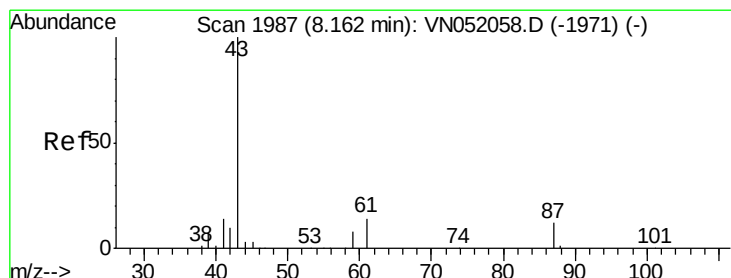
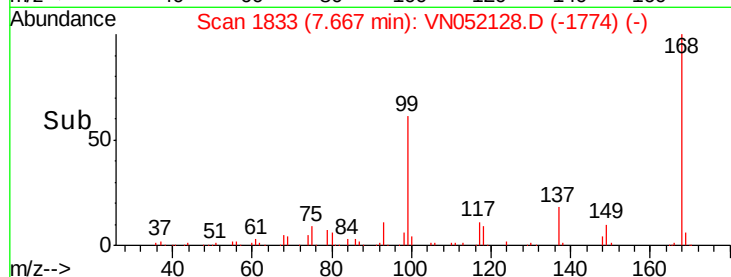
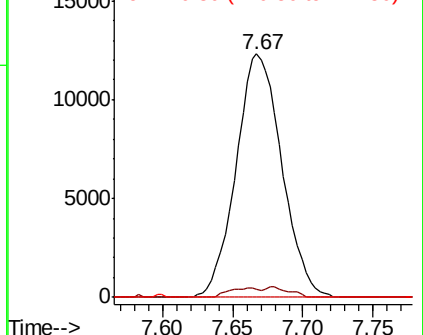
121 0.0 25.1 37.7#



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: 31.075 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

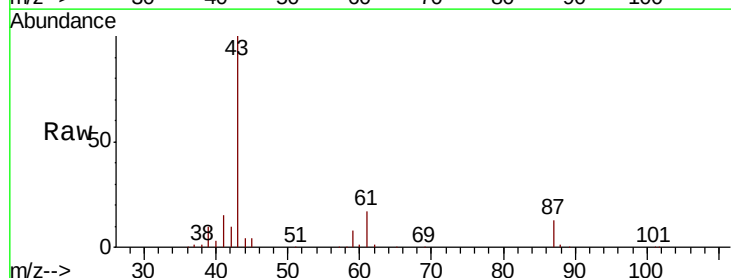
Tgt Ion: 43 Resp: 192758

Ion Ratio Lower Upper

43 100

61 16.3 15.4 23.0

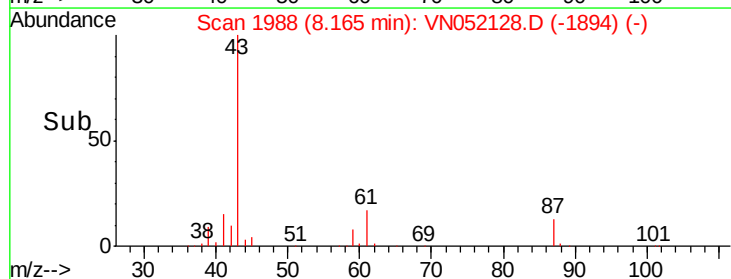
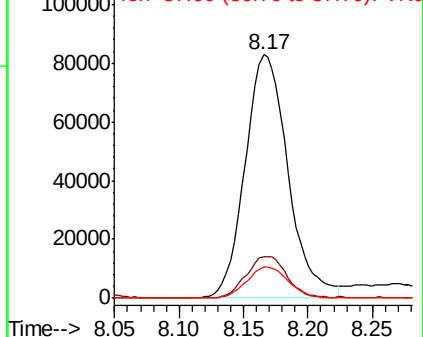
87 12.3 9.8 14.8

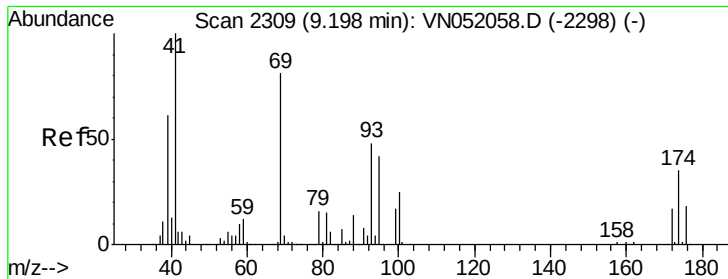


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

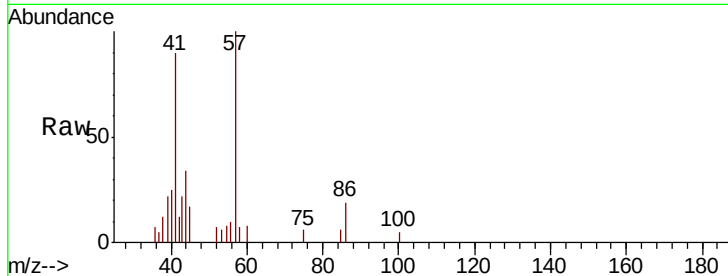




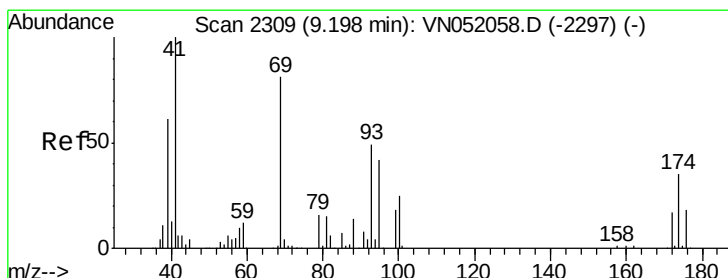
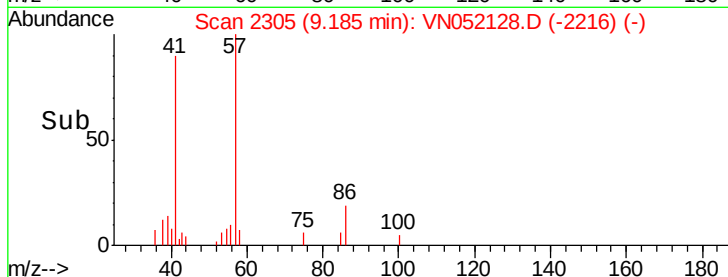
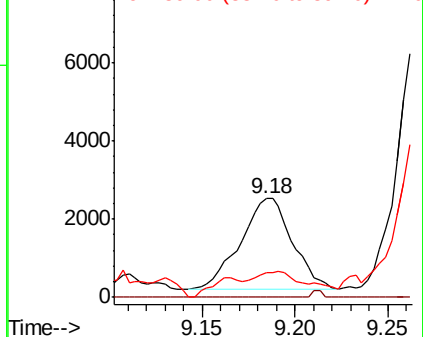
#48
Methvl methacrylate
Concen: 1.446 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN052128.D
Acq: 2 Nov 2018 14:49

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#17

Tot Ion: 41 Resp: 4549
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 16.4 50.5 75.7#

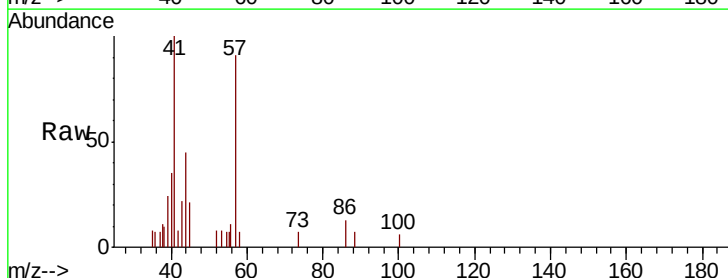


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

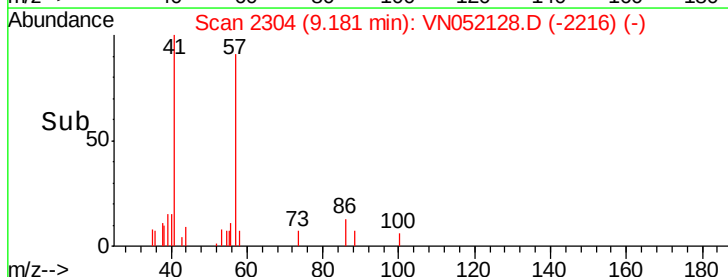
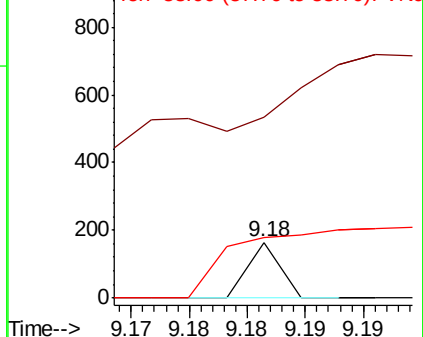


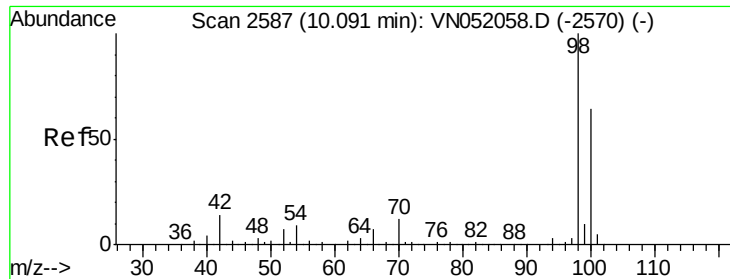
#49
1,4-Dioxane
Concen: 26.244 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052128.D
Acq: 2 Nov 2018 14:49

Tgt Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 0.0 62.8 94.2#



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





#50

Toluene-d8

Concen: 26.244 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

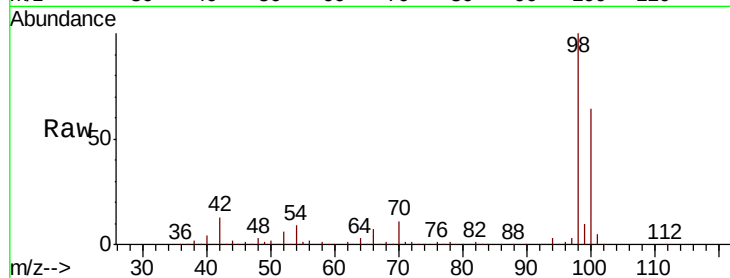
PB114370ZHE#17

Tot Ion: 98 Resp: 769965

Ion Ratio Lower Upper

98 100

100 63.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN052058.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052058.D (-2570) (-)

10.09

400000

300000

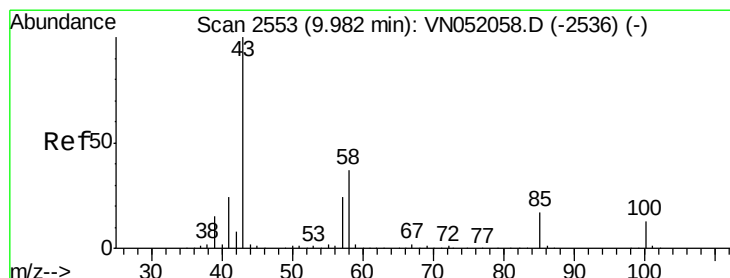
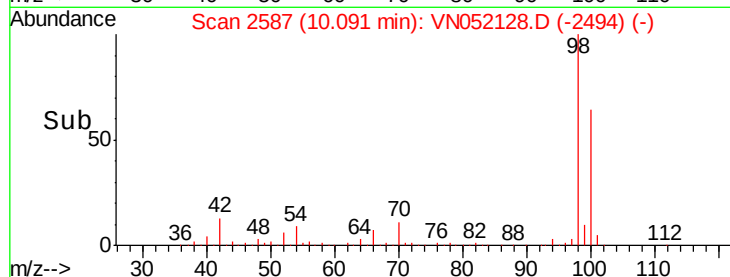
200000

100000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.305 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052128.D

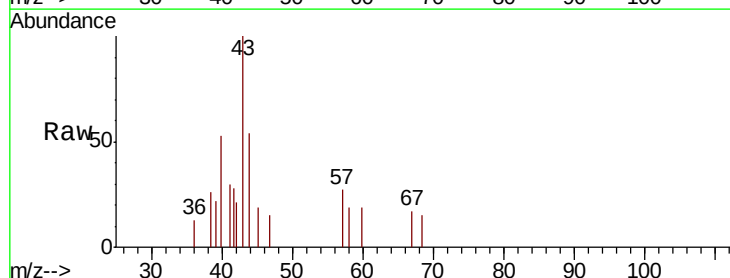
Acq: 2 Nov 2018 14:49

Tgt Ion: 43 Resp: 1028

Ion Ratio Lower Upper

43 100

58 30.5 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-2536) (-)

9.99

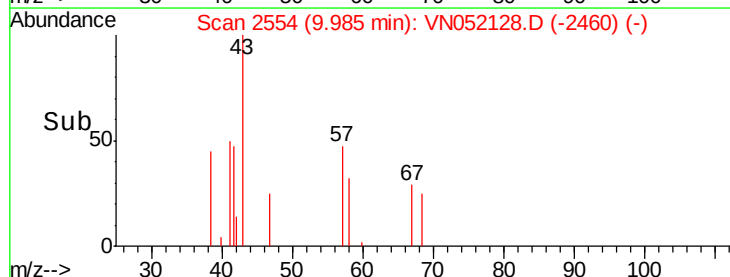
1000

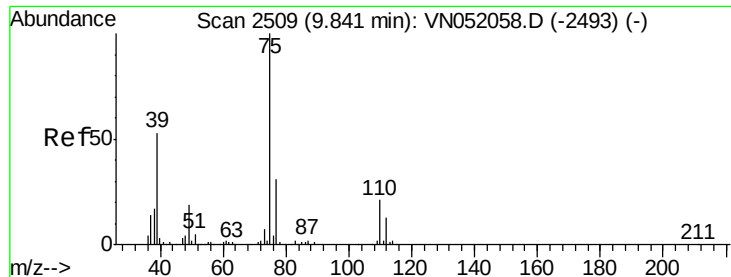
500

0

Time-->

9.94 9.96 9.98 10.00





#54

cis-1,3-Dichloropropene

Concen: 0.324 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#17

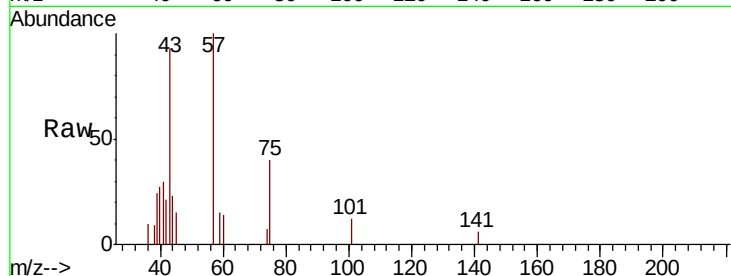
Tot Ion: 75 Resp: 1902

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

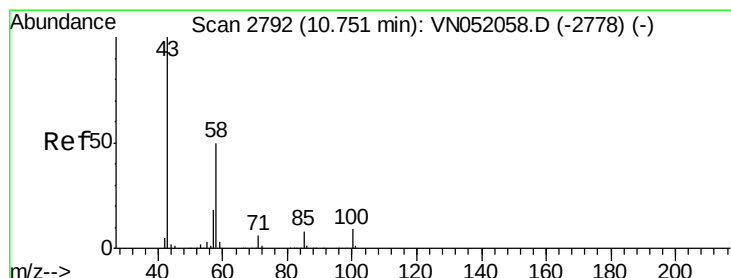
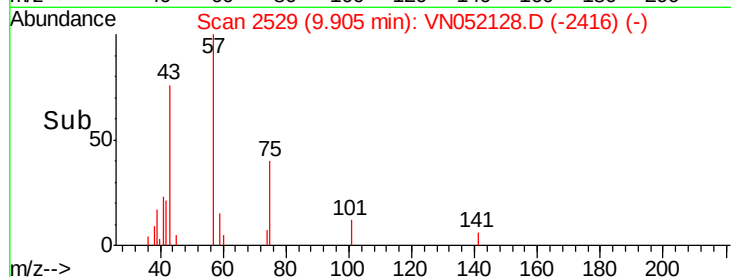
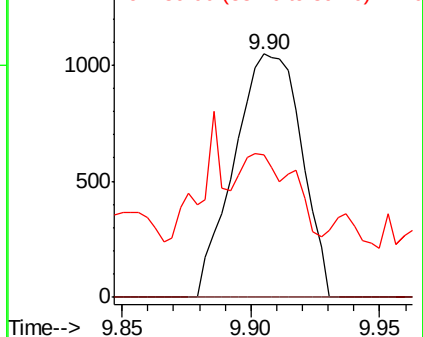
39 25.8 42.3 63.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 4.901 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052128.D

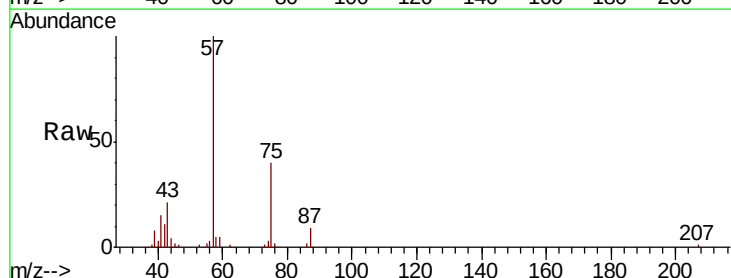
Acq: 2 Nov 2018 14:49

Tgt Ion: 43 Resp: 11775

Ion Ratio Lower Upper

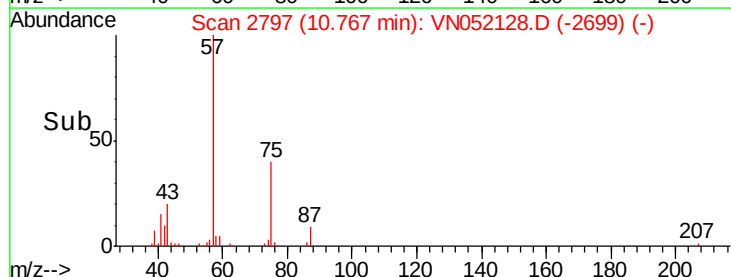
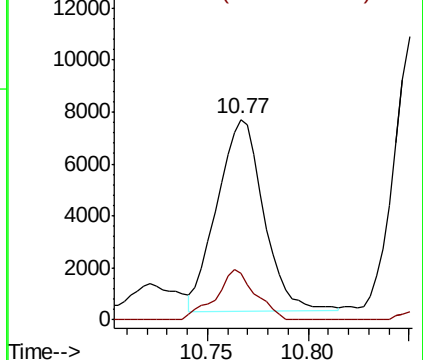
43 100

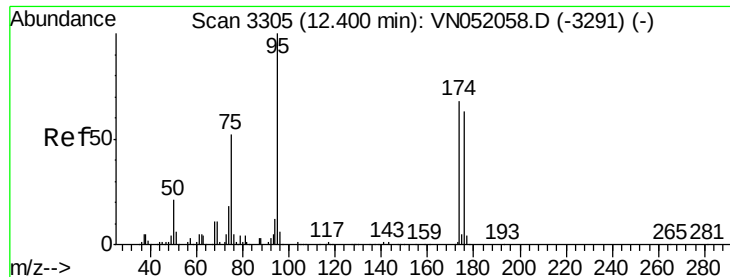
58 22.4 25.2 75.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#17

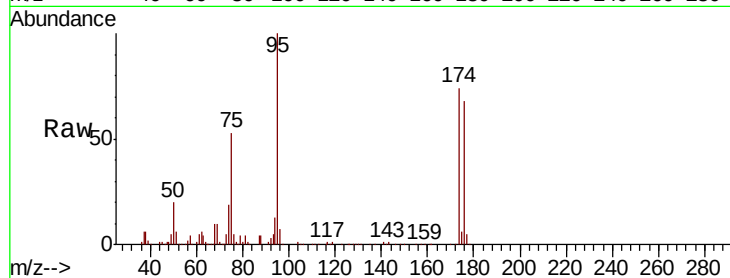
Tot Ion: 95 Resp: 263038

Ion Ratio Lower Upper

95 100

174 72.1 0.0 131.8

176 69.4 0.0 126.0



Abundance Ion 94.90 (94.60 to 95.60): VN052058.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052058.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052058.D (-3291) (-)

12.40

150000

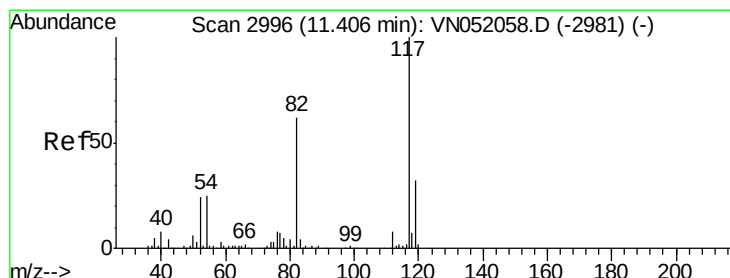
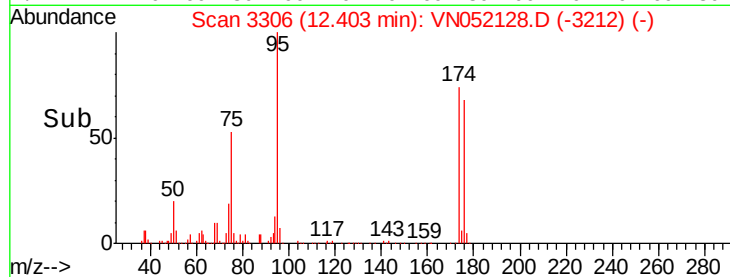
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

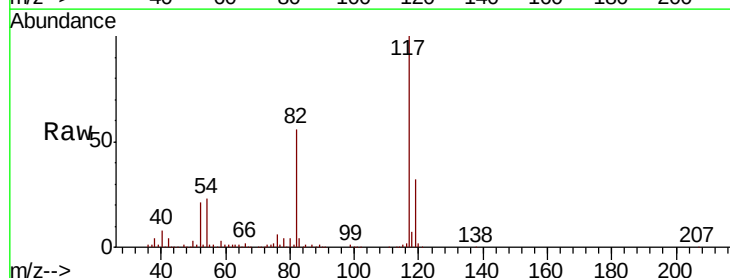
Tgt Ion: 117 Resp: 496713

Ion Ratio Lower Upper

117 100

82 56.4 49.9 74.9

119 31.8 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VN052058.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052058.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052058.D (-2981) (-)

11.41

300000

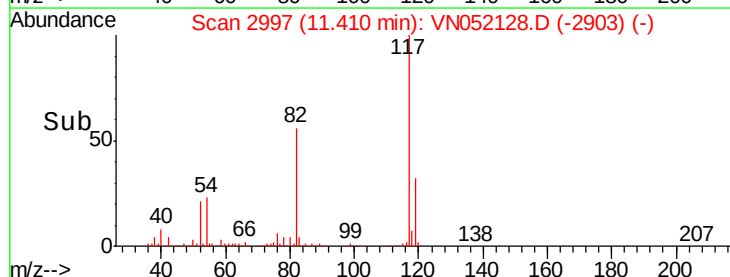
200000

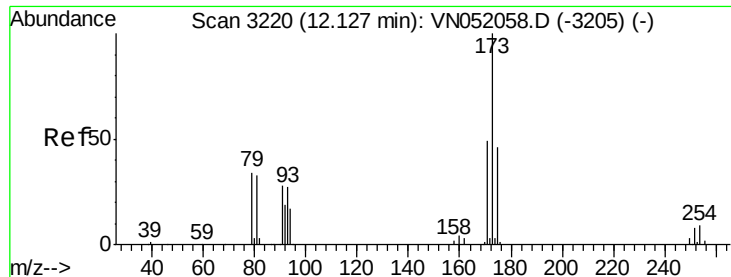
100000

0

11.35 11.40 11.45

Time-->





#71

Bromoform

Concen: 2.206 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.25 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#17

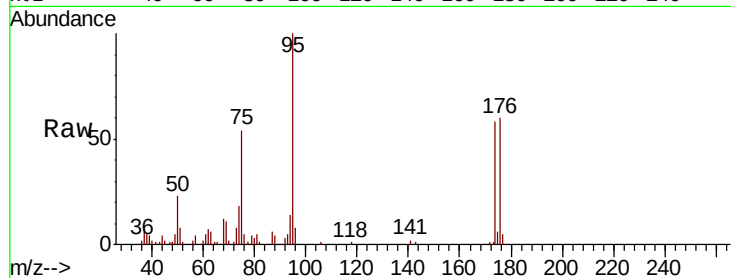
Tot Ion:173 Resp: 62

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.7#

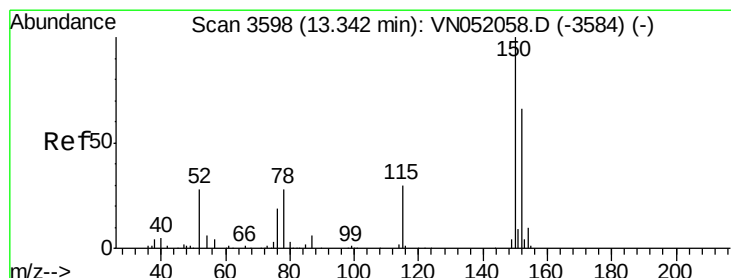
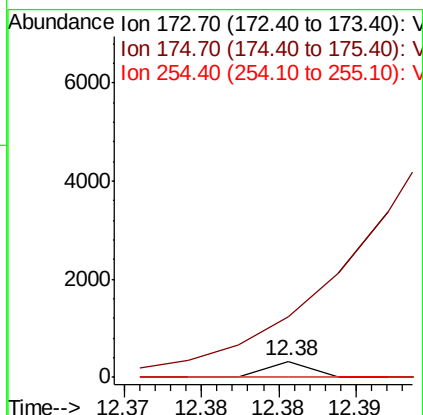
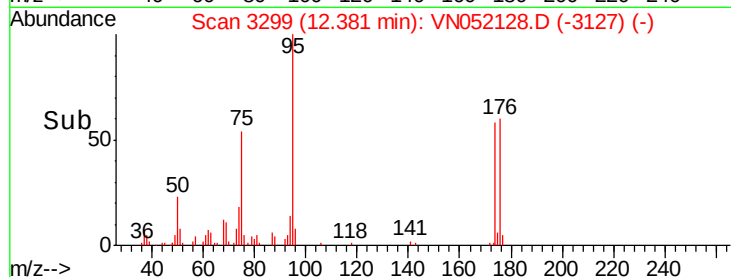
254 0.0 0.0 0.0



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: VN052128.D

Acq: 2 Nov 2018 14:49

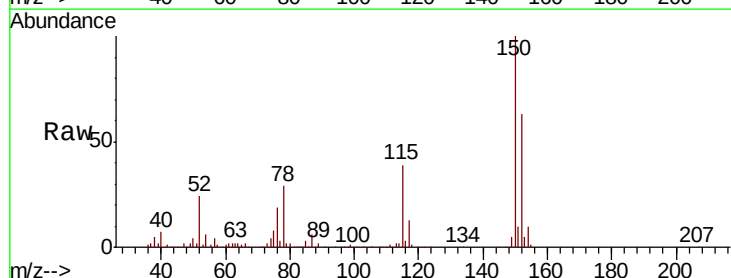
Tgt Ion:152 Resp: 203129

Ion Ratio Lower Upper

152 100

115 62.9 31.6 95.0

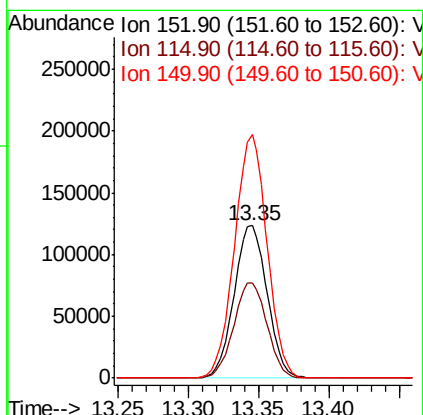
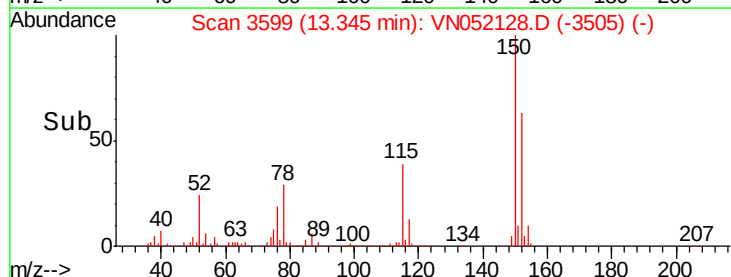
150 156.7 0.0 345.0

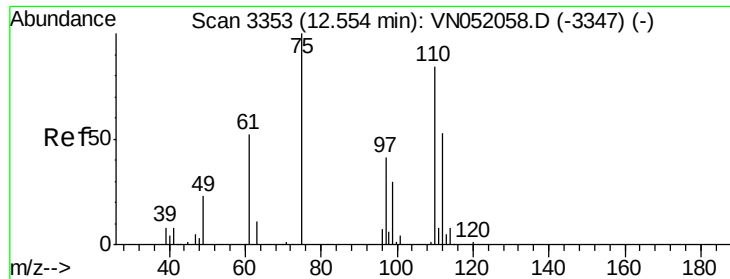


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

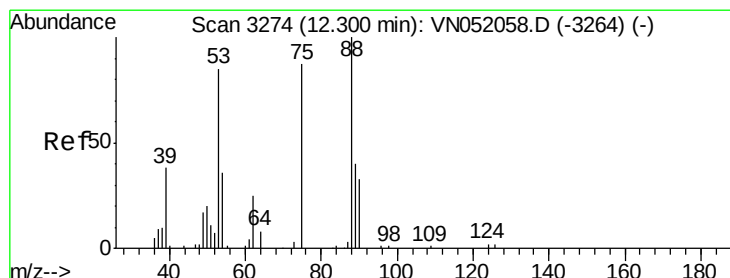
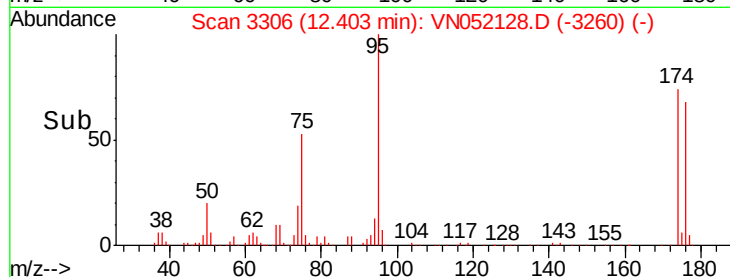
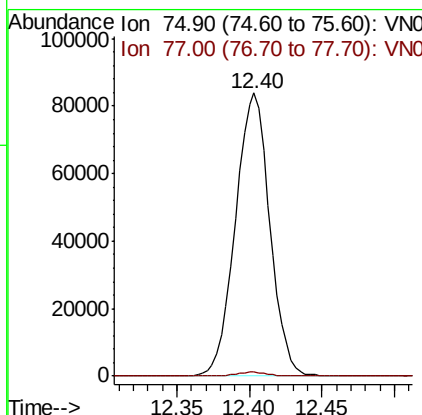
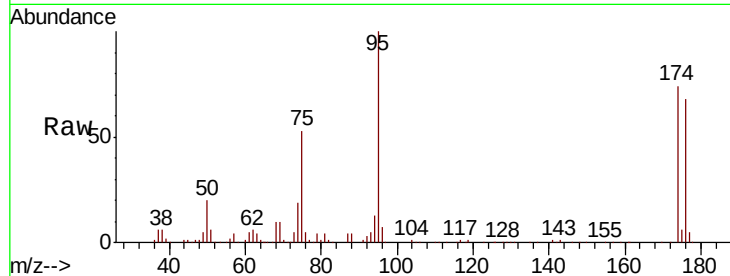




#76
 1,2,3-Trichloropropane
 Concen: 37.029 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN052128.D
 Acq: 2 Nov 2018 14:49

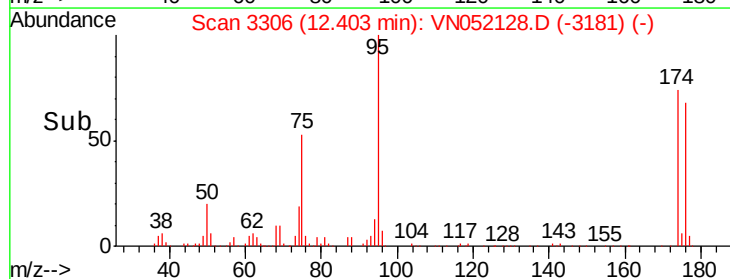
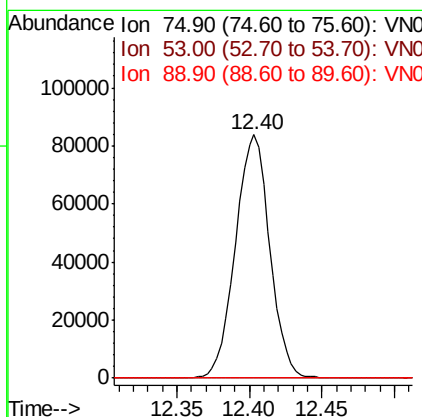
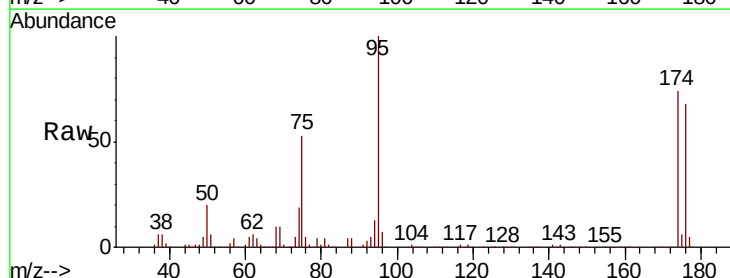
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#17

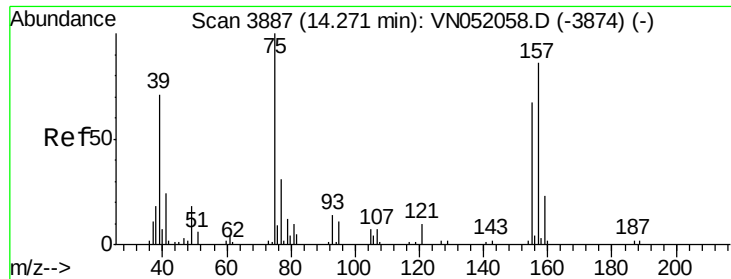
Tot Ion: 75 Resp: 137689
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 122.907 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052128.D
 Acq: 2 Nov 2018 14:49

Tgt Ion: 75 Resp: 137689
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.8 122.6#
 89 0.0 36.6 54.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.074 ug/l

RT: 14.26 min Scan# 3884

Delta R.T. -0.01 min

Lab File: VN052128.D

Acq: 2 Nov 2018 14:49

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#17

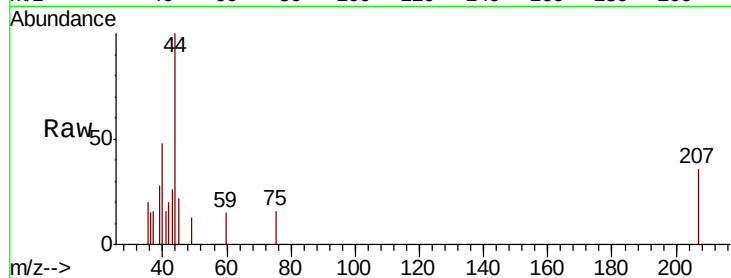
Tot Ion: 75 Resp: 95

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

