

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052260.D
 Acq On : 12 Nov 2018 14:18
 Operator : MD\SY
 Sample : PB114678ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#04

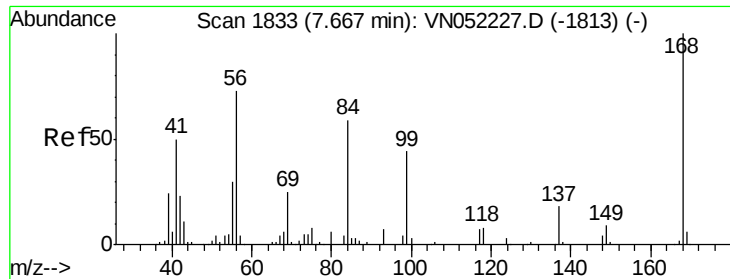
Quant Time: Nov 13 00:14:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	332886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	559452	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	489168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	175224	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	217291	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	
35) Dibromofluoromethane	7.59	113	178272	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
50) Toluene-d8	10.09	98	699335	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	12.40	95	209257	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.02	59	65	0.279	ug/l #	71
13) Acrolein	3.60	56	63	34.249	ug/l #	1
16) Acetone	3.82	43	7748	Below Cal	#	89
20) Methylene Chloride	4.55	84	10537	2.539	ug/l	96
29) Tetrahydrofuran	7.22	42	729	0.577	ug/l #	40
31) Cyclohexane	7.67	56	9727	0.701	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	29407	5.208	ug/l #	52
38) Carbon Tetrachloride	7.67	117	34521	6.746	ug/l #	16
41) Methacrylonitrile	7.21	41	515	0.209	ug/l #	29
43) Isopropyl Acetate	8.17	43	24298	3.282	ug/l	98
48) Methyl methacrylate	9.18	41	5940	1.523	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	6340	1.551	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	37321	5.960	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	7476	1.185	ug/l #	43
59) 2-Hexanone	10.76	43	127698	44.494	ug/l #	54
71) Bromoform	12.40	173	1961	0.936	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	115654	37.306	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6303	0.553	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	115654	127.341	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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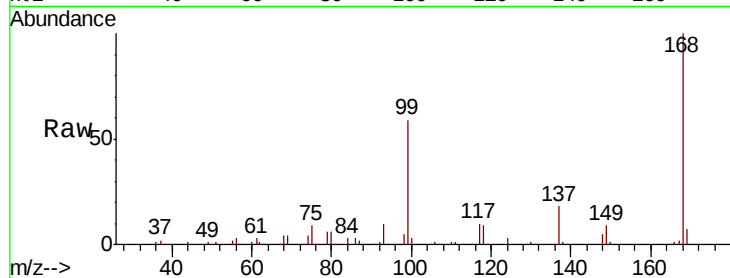
PB114678ZHE#04

Tot Ion:168 Resp: 332886

Ion Ratio Lower Upper

168 100

99 58.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN052227.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN052227.D (-1813) (-)

7.67

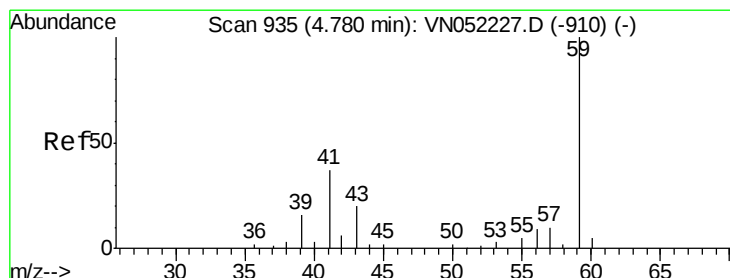
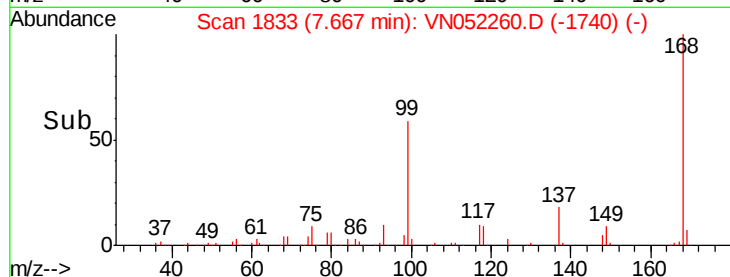
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.279 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.24 min

Lab File: VN052260.D

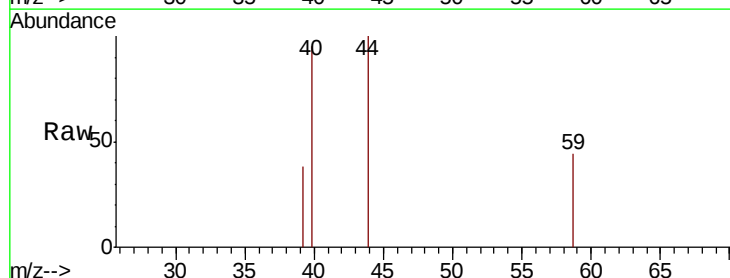
Acq: 12 Nov 2018 14:18

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VN052227.D (-910) (-)

Ion 57.00 (56.70 to 57.70): VN052227.D (-910) (-)

5.02

200

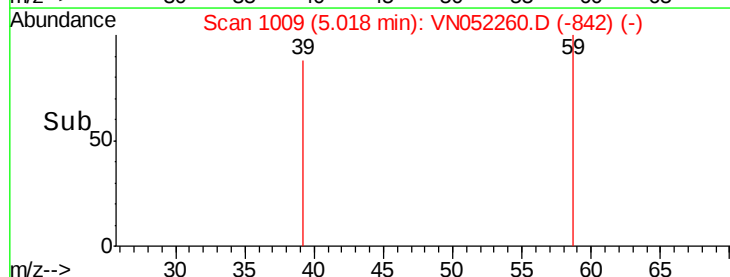
150

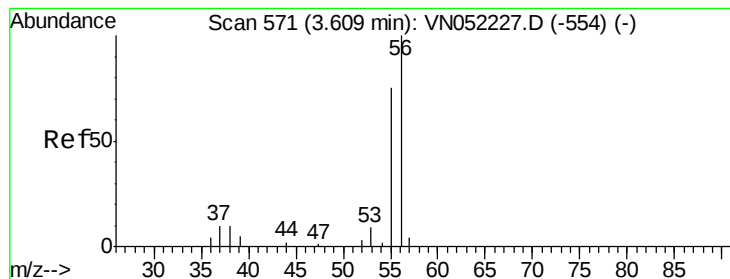
100

50

0

Time-->





#13

Acrolein

Concen: 34.249 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052260.D

Acq: 12 Nov 2018 14:18

Instrument :

MSVOA_N

ClientSampleId :

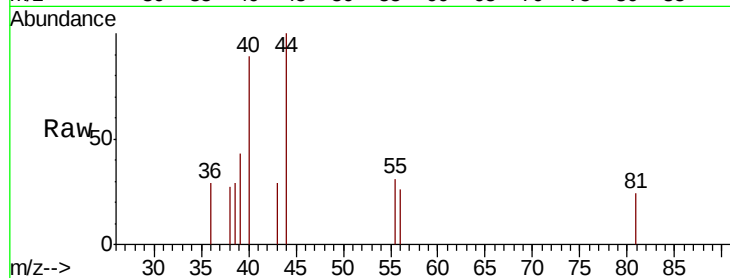
PB114678ZHE#04

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

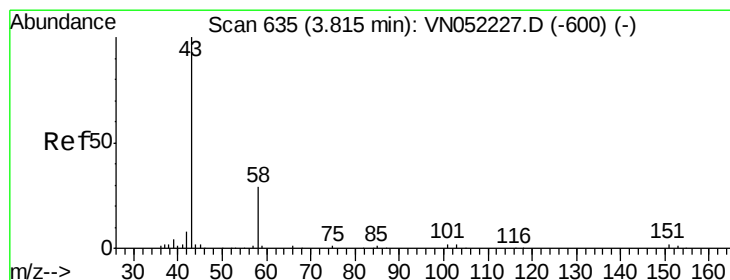
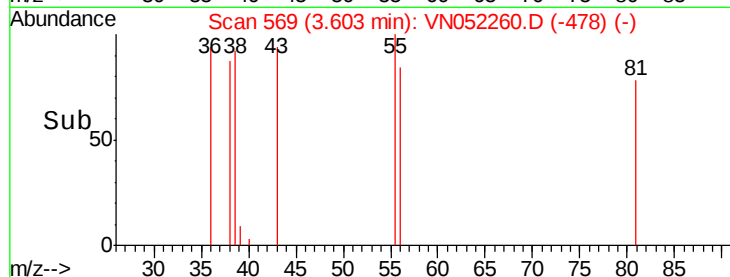
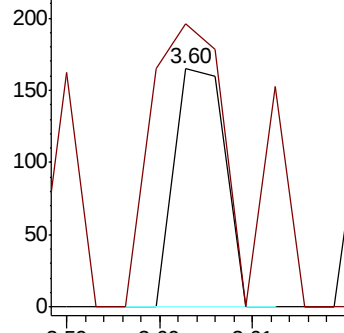
56 100

55 212.7 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052260.D

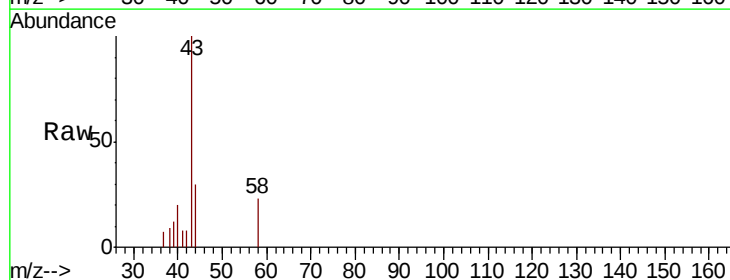
Acq: 12 Nov 2018 14:18

Tgt Ion: 43 Resp: 7748

Ion Ratio Lower Upper

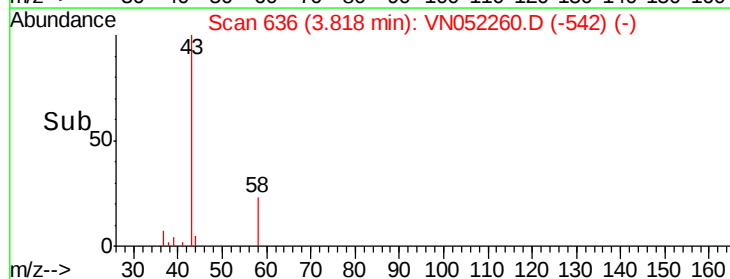
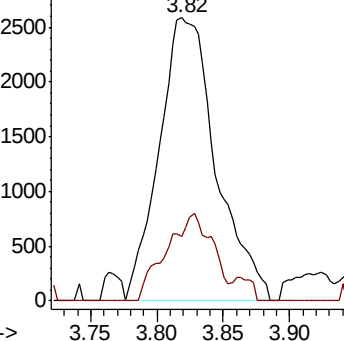
43 100

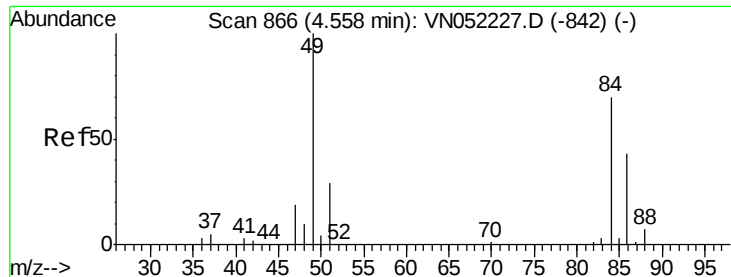
58 22.9 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

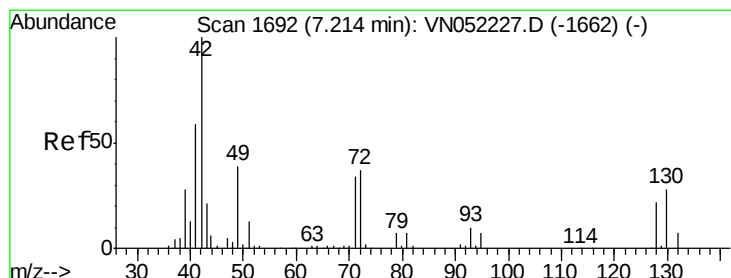
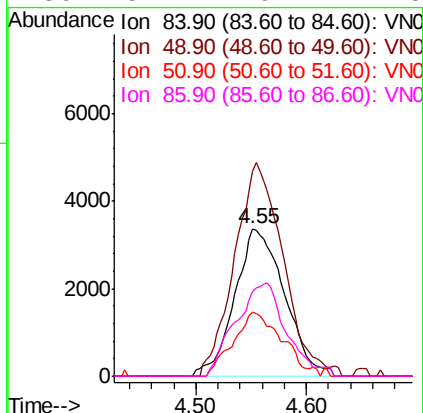
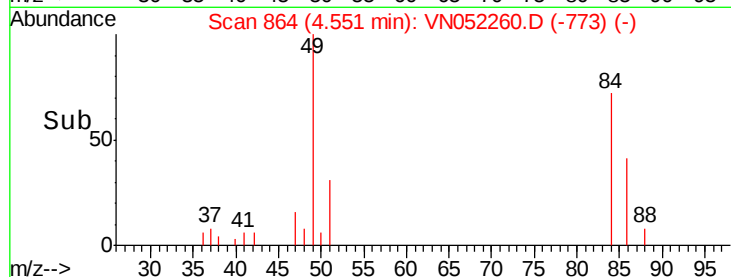
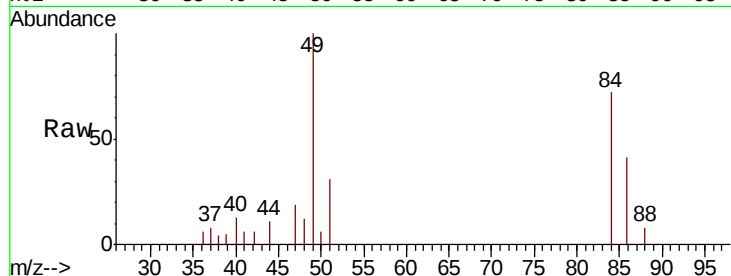




#20
Methylene Chloride
Concen: 2.539 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.01 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

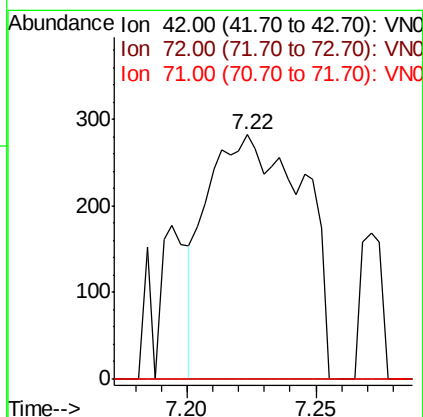
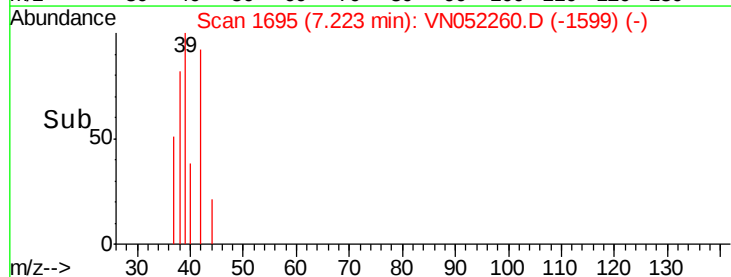
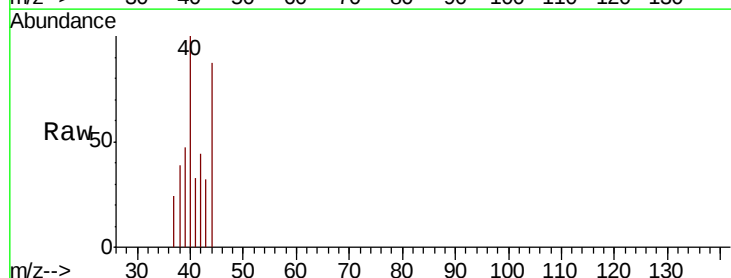
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#04

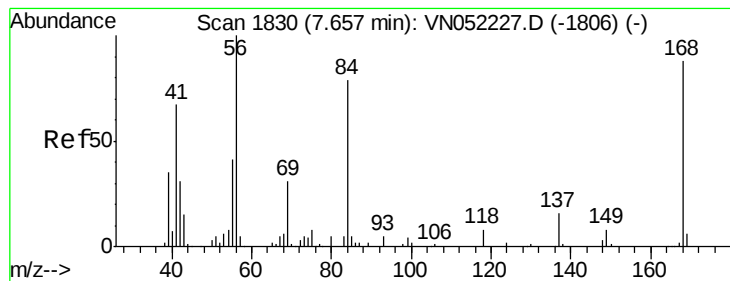
Tot Ion:	84	Resp:	10537
Ion	Ratio	Lower	Upper
84	100		
49	139.1	114.8	172.2
51	43.1	33.1	49.7
86	57.4	49.7	74.5



#29
Tetrahydrofuran
Concen: 0.577 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

Tgt Ion:	42	Resp:	729
Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.6	43.0#
71	0.0	27.1	40.7#





#31

Cyclohexane

Concen: 0.701 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052260.D

Acq: 12 Nov 2018 14:18

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#04

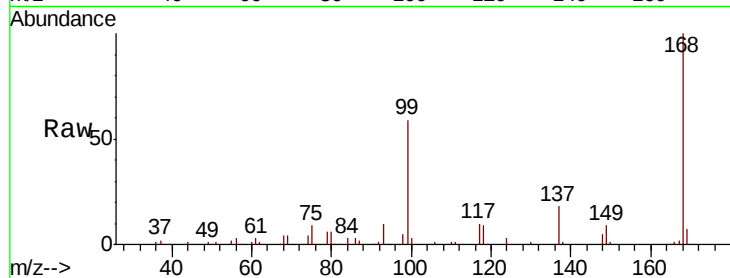
Tot Ion: 56 Resp: 9727

Ion Ratio Lower Upper

56 100

69 159.5 24.8 37.2#

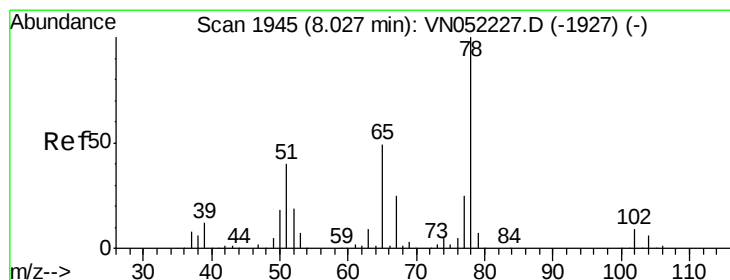
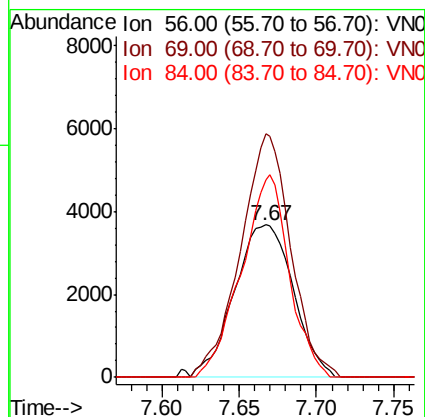
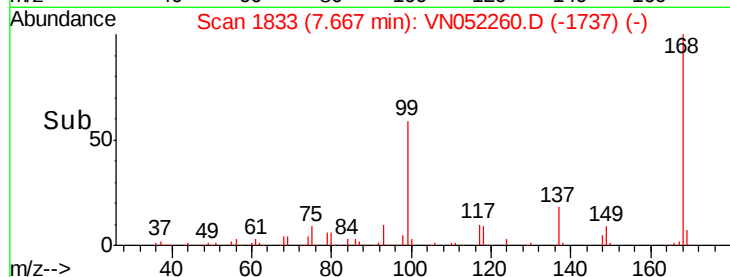
84 129.6 63.1 94.7#



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



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052260.D

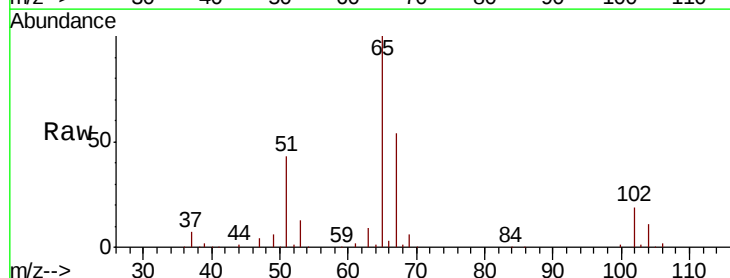
Acq: 12 Nov 2018 14:18

Tgt Ion: 65 Resp: 217291

Ion Ratio Lower Upper

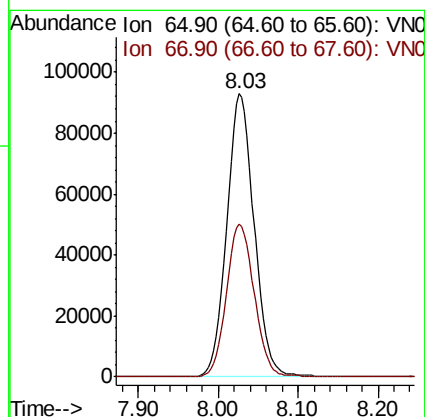
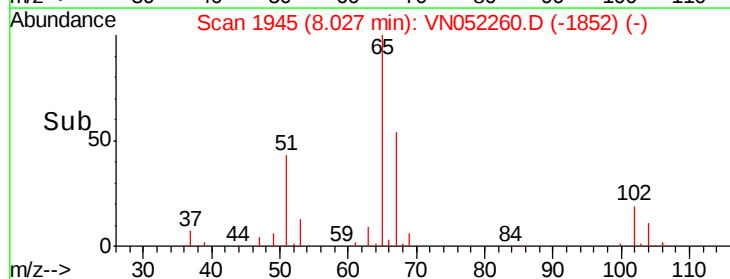
65 100

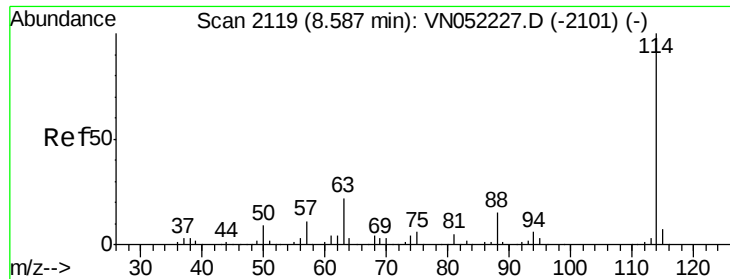
67 54.9 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

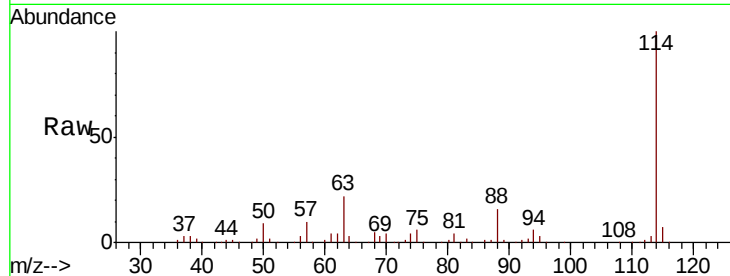




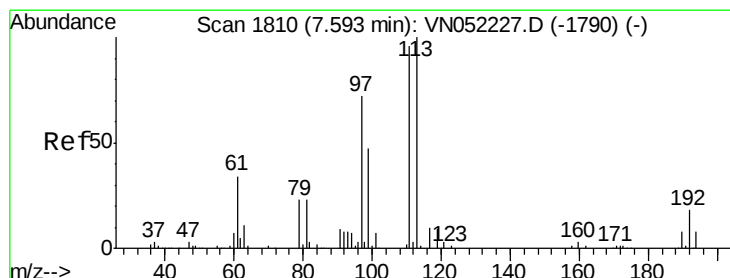
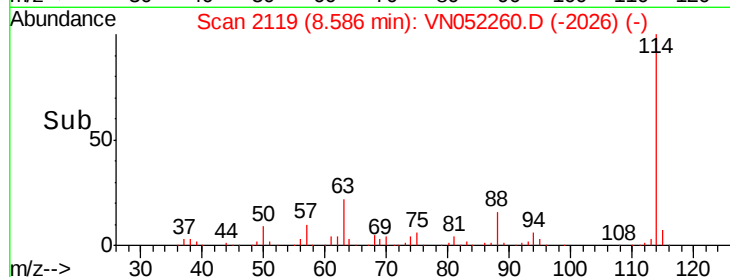
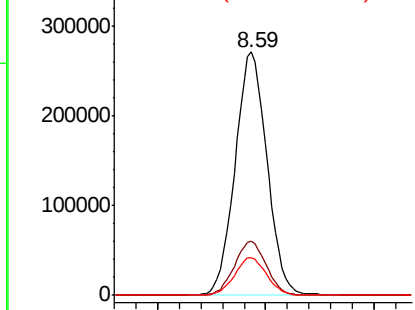
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#04

Tot Ion:114 Resp: 559452
Ion Ratio Lower Upper
114 100
63 22.1 0.0 43.4
88 15.6 0.0 30.2

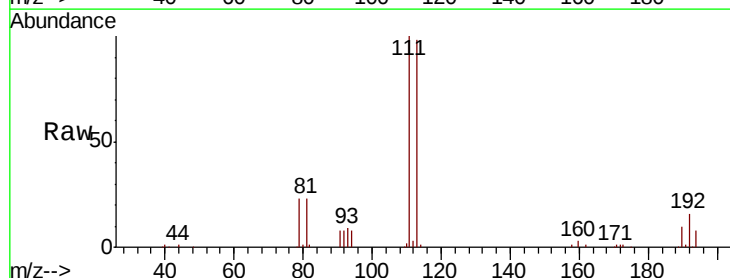


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

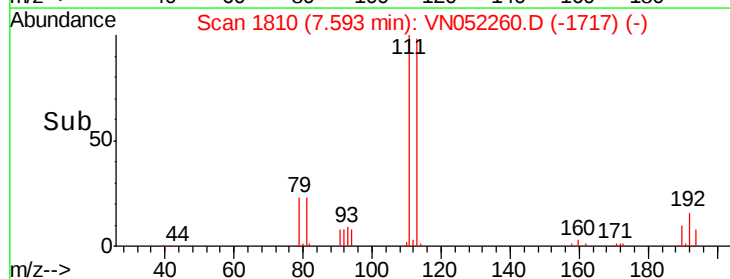
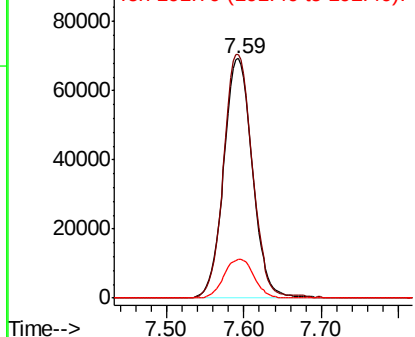


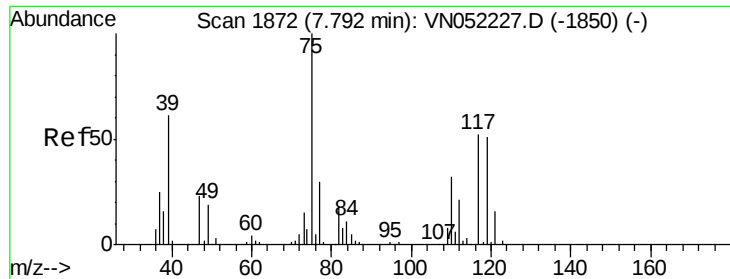
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

Tgt Ion:113 Resp: 178272
Ion Ratio Lower Upper
113 100
111 101.6 80.2 120.4
192 17.1 14.1 21.1



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

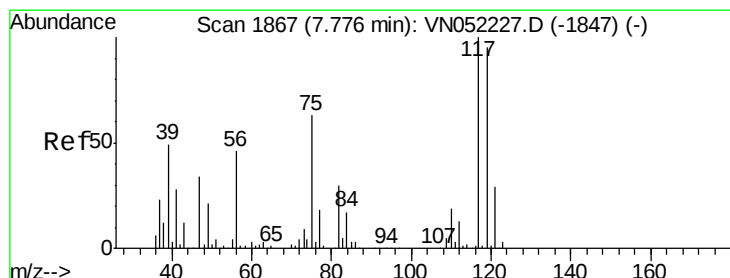
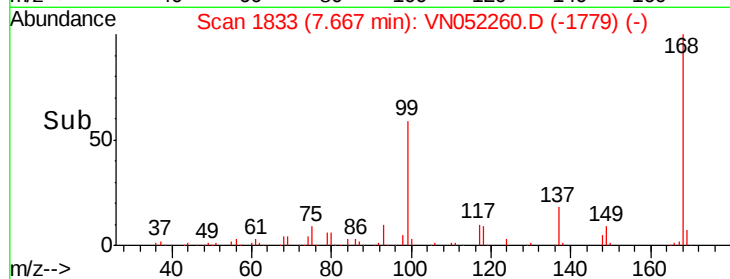
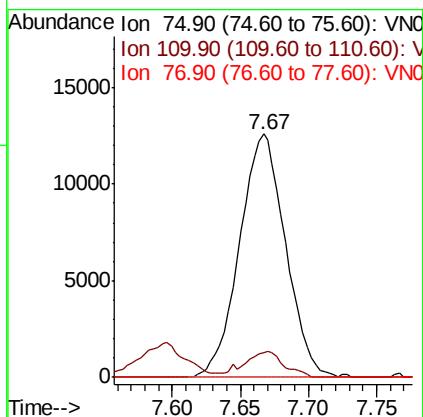
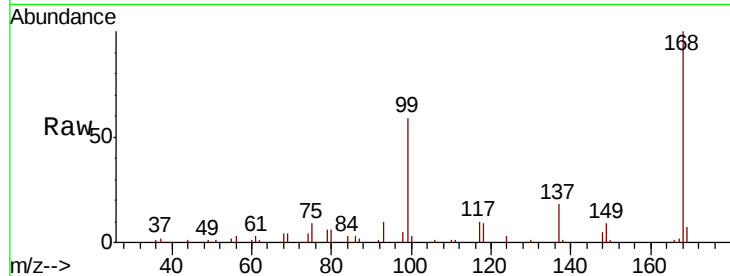




#36
 1,1-Dichloropropene
 Concen: 5.208 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052260.D
 Acq: 12 Nov 2018 14:18

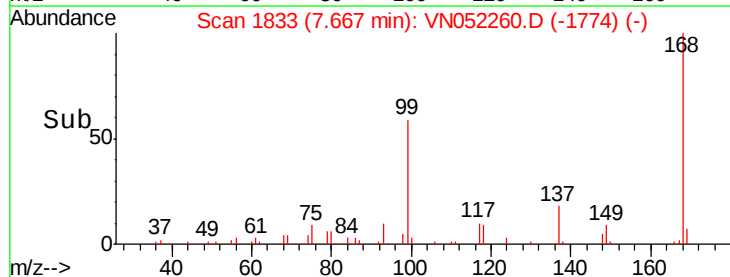
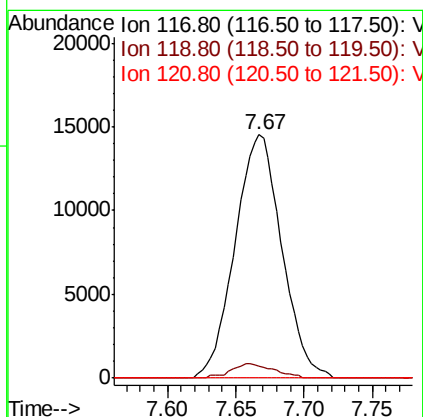
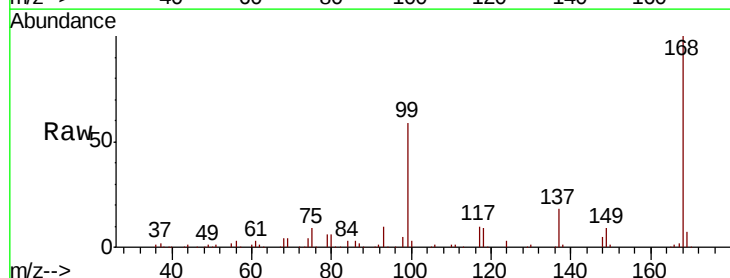
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 PB114678ZHE#04

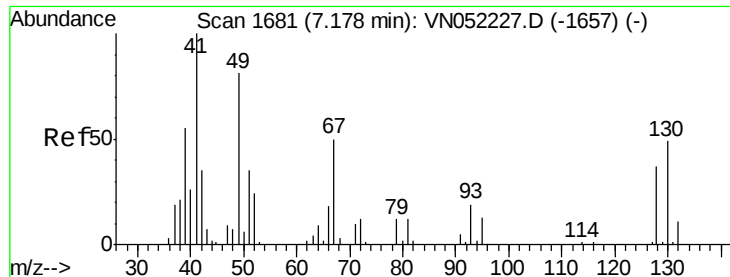
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	16.4	49.4#
77	0.0	23.9	35.9#



#38
 Carbon Tetrachloride
 Concen: 6.746 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052260.D
 Acq: 12 Nov 2018 14:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	75.8	113.8#
121	0.0	23.4	35.2#

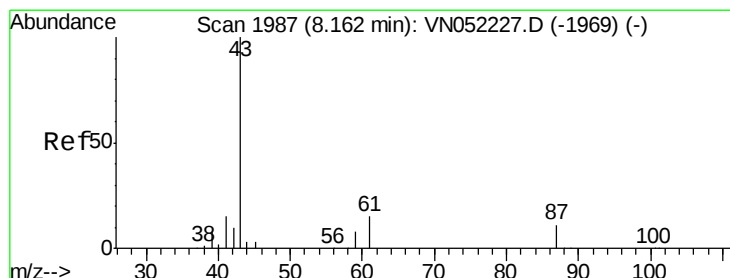
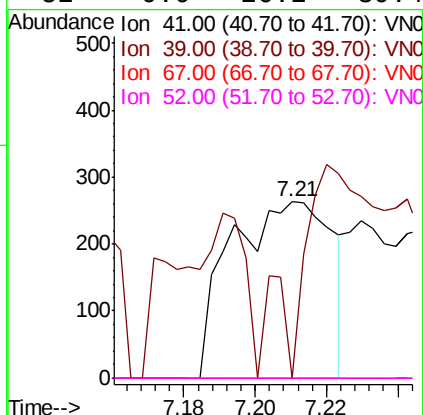
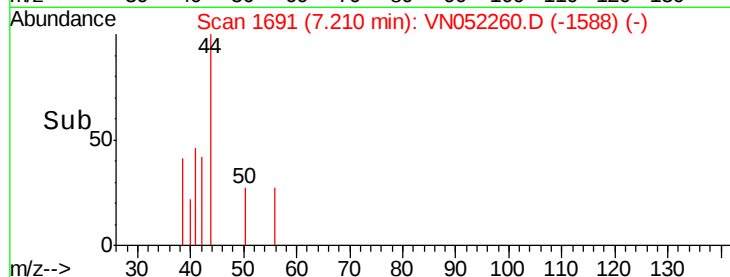
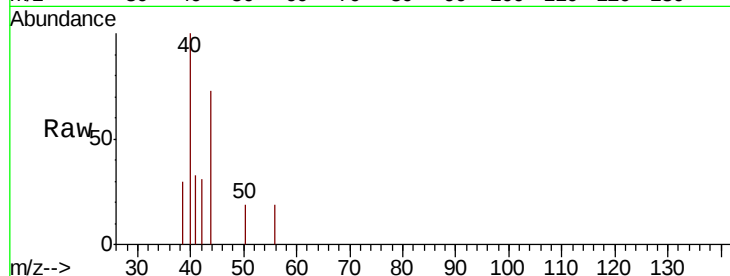




#41
Methacrylonitrile
Concen: 0.209 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.03 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

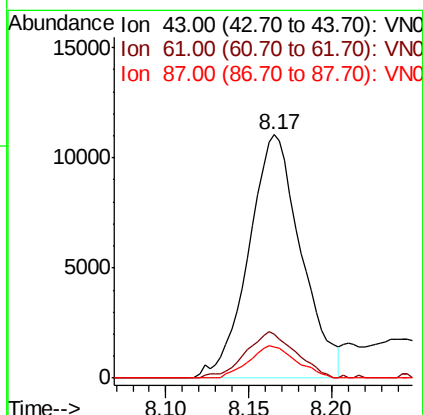
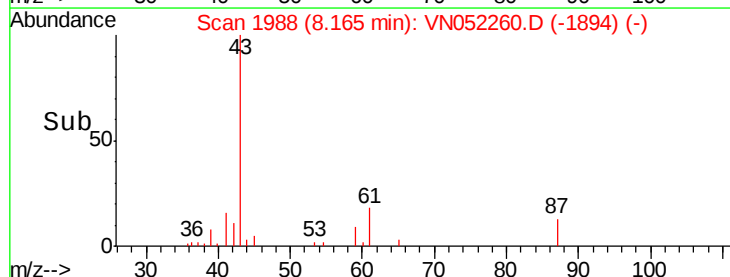
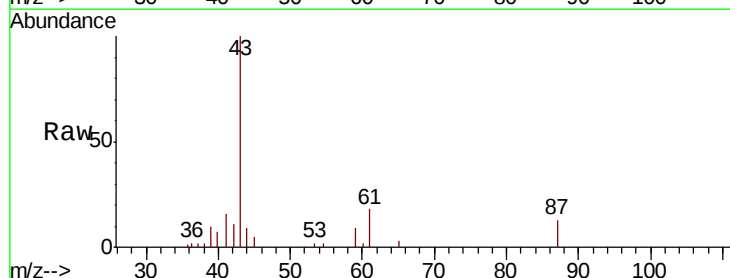
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#04

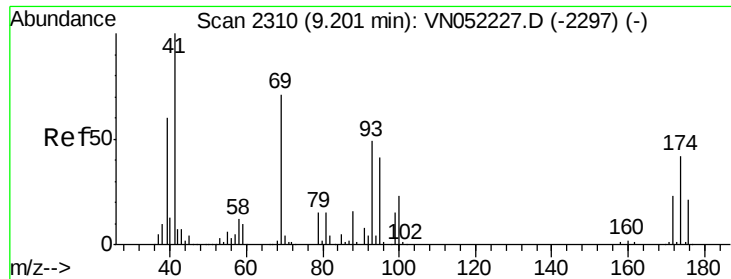
Tot Ion: 41 Resp: 515
Ion Ratio Lower Upper
41 100
39 11.3 47.8 71.6#
67 0.0 54.3 81.5#
52 0.0 26.2 39.4#



#43
Isopropyl Acetate
Concen: 3.282 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

Tgt Ion: 43 Resp: 24298
Ion Ratio Lower Upper
43 100
61 18.2 14.2 21.4
87 12.0 8.4 12.6

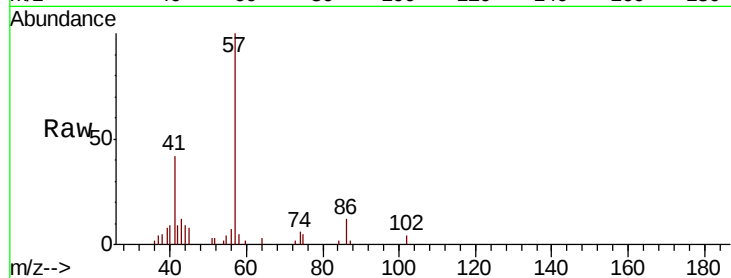




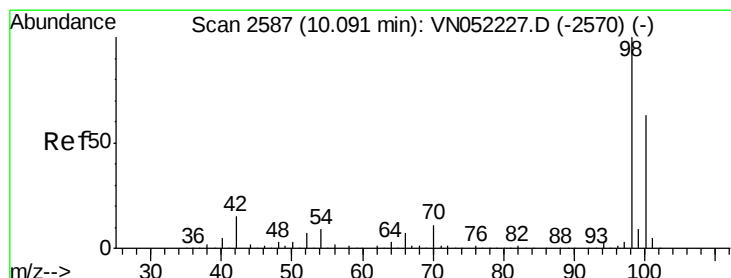
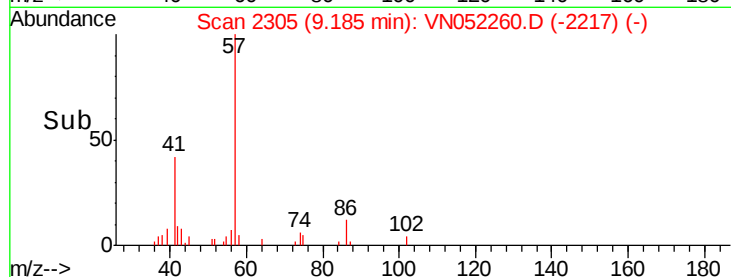
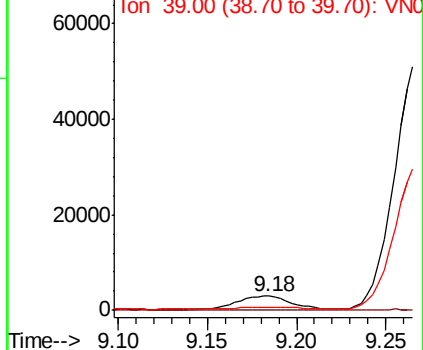
#48
Methvl methacrylate
Concen: 1.523 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#04

Tot Ion: 41 Resp: 5940
Ion Ratio Lower Upper
41 100
69 1.1 58.8 88.2#
39 0.0 50.7 76.1#

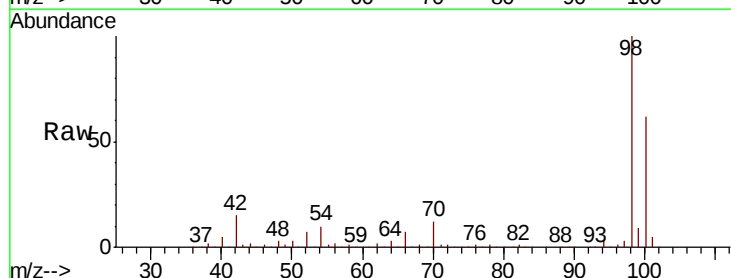


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

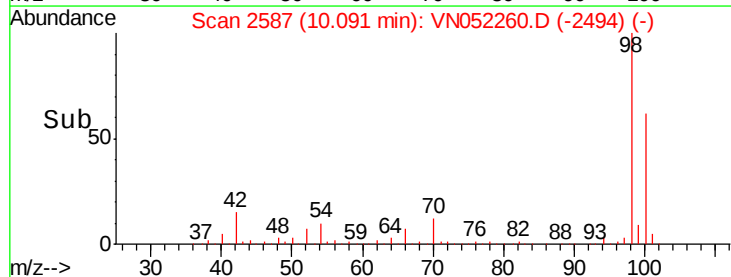
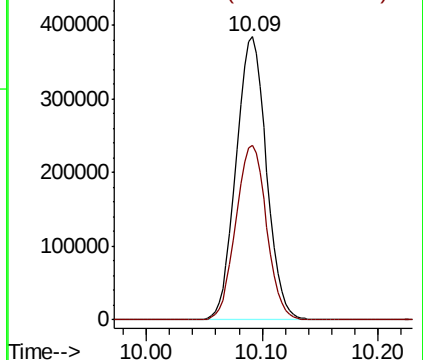


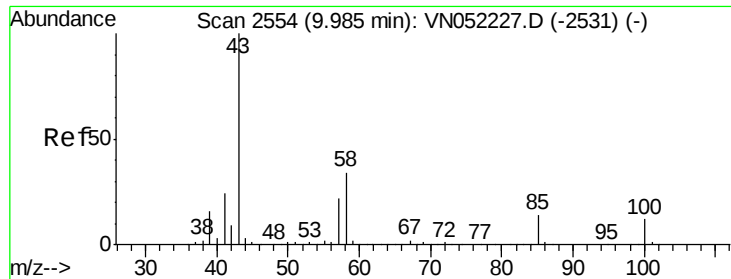
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

Tgt Ion: 98 Resp: 699335
Ion Ratio Lower Upper
98 100
100 62.6 50.2 75.2



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





#51

4-Methyl-2-Pentanone

Concen: 1.551 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052260.D

Acq: 12 Nov 2018 14:18

Instrument :

MSVOA_N

ClientSampleId :

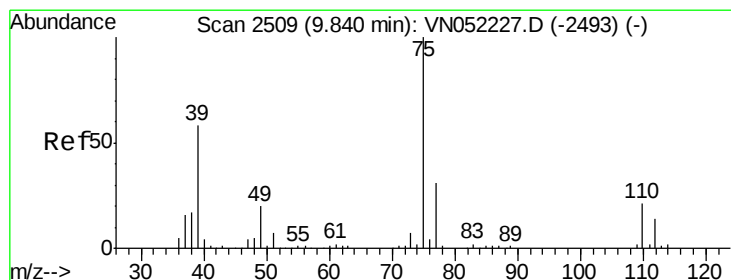
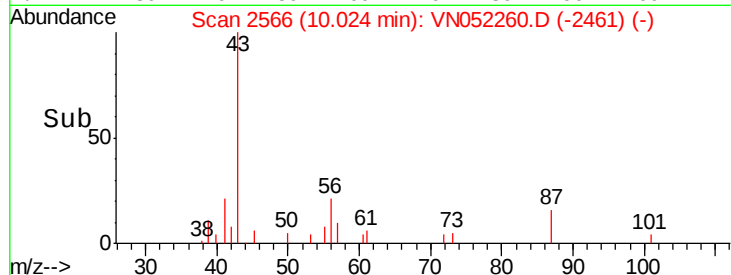
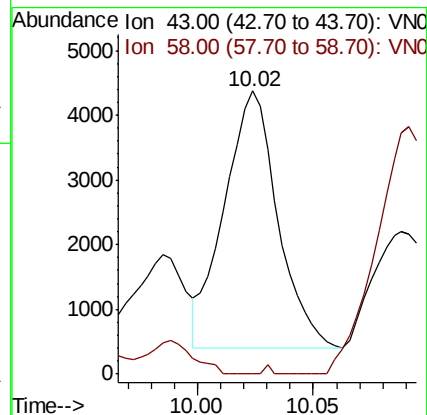
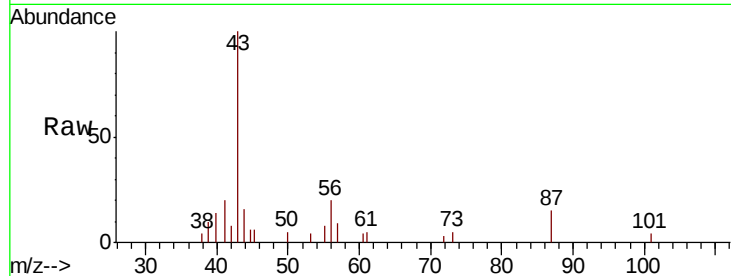
PB114678ZHE#04

Tot Ion: 43 Resp: 6340

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.0#



#54

cis-1,3-Dichloropropene

Concen: 5.960 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052260.D

Acq: 12 Nov 2018 14:18

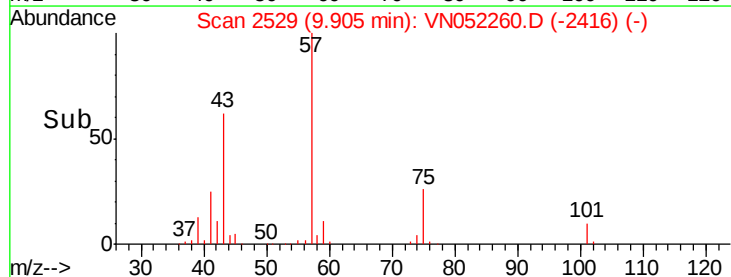
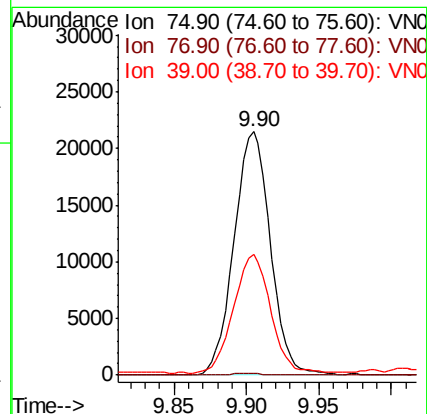
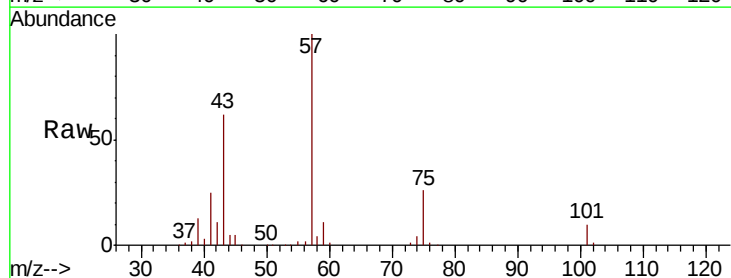
Tgt Ion: 75 Resp: 37321

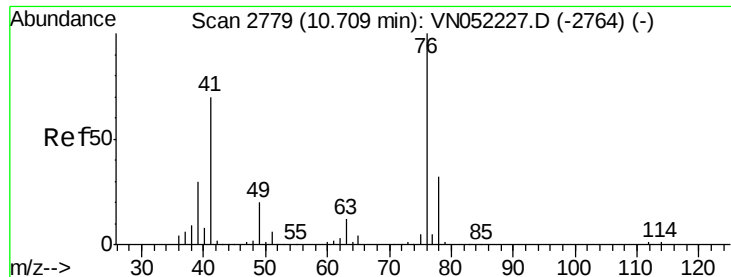
Ion Ratio Lower Upper

75 100

77 0.9 25.2 37.8#

39 48.6 46.6 70.0





#57

1,3-Dichloropropane

Concen: 1.185 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052260.D

Acq: 12 Nov 2018 14:18

Instrument :

MSVOA_N

ClientSampleId :

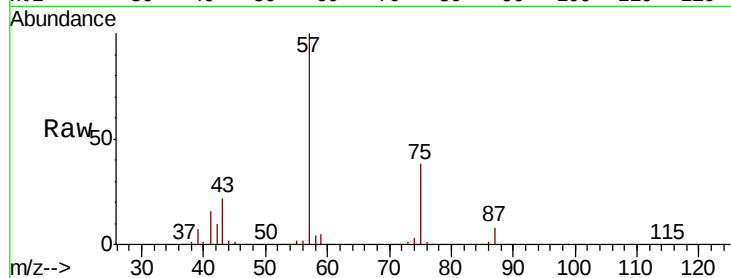
PB114678ZHE#04

Tot Ion: 76 Resp: 7476

Ion Ratio Lower Upper

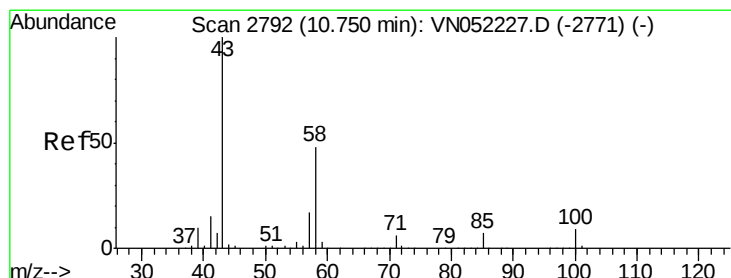
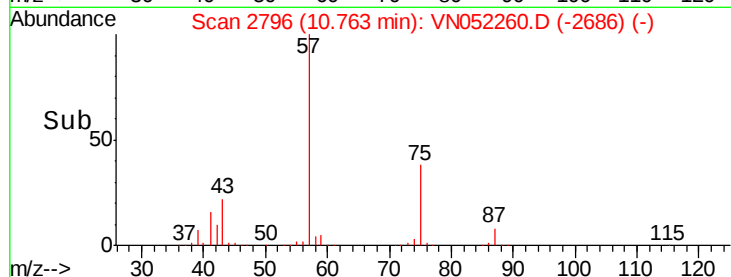
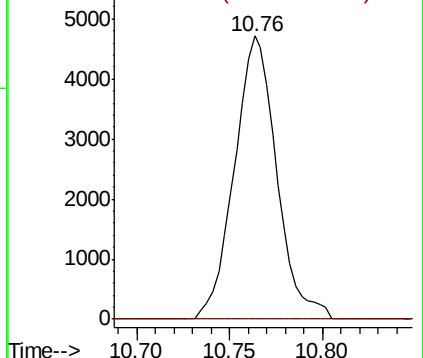
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 44.494 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052260.D

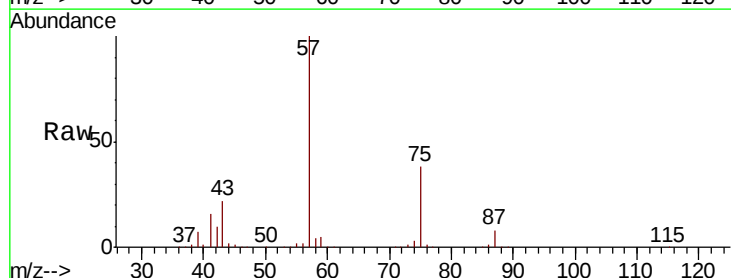
Acq: 12 Nov 2018 14:18

Tgt Ion: 43 Resp: 127698

Ion Ratio Lower Upper

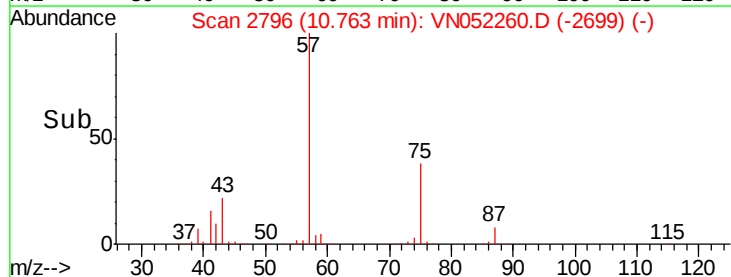
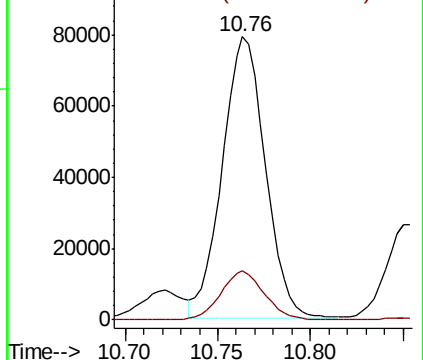
43 100

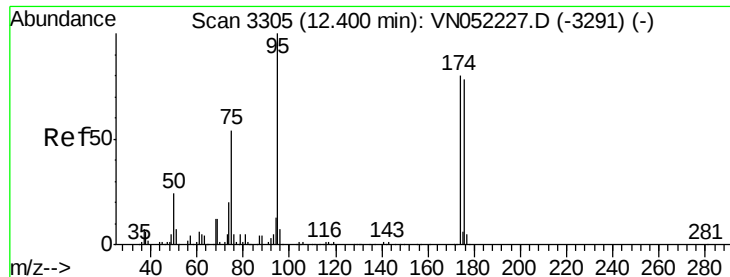
58 17.3 24.1 72.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052260.D

Acq: 12 Nov 2018 14:18

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#04

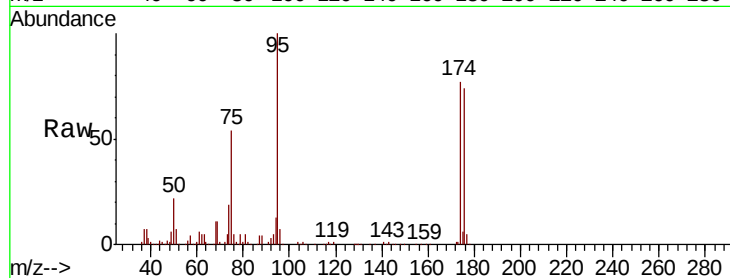
Tot Ion: 95 Resp: 209257

Ion Ratio Lower Upper

95 100

174 77.8 0.0 159.4

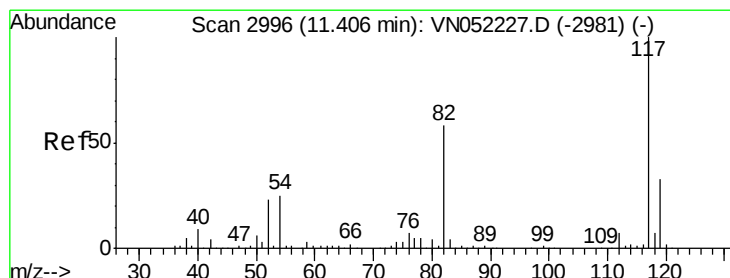
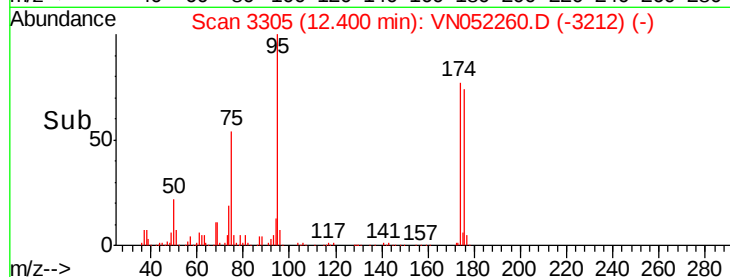
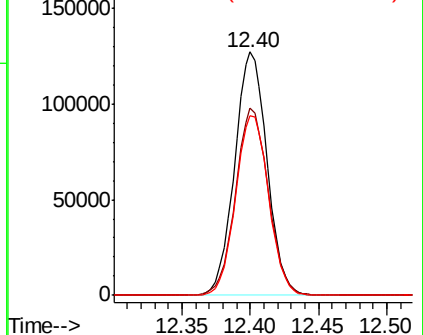
176 75.3 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052260.D

Acq: 12 Nov 2018 14:18

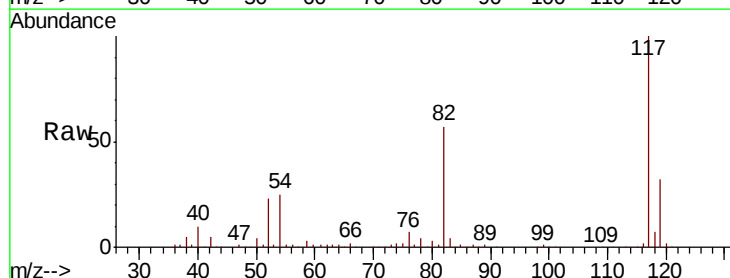
Tgt Ion: 117 Resp: 489168

Ion Ratio Lower Upper

117 100

82 57.4 46.2 69.2

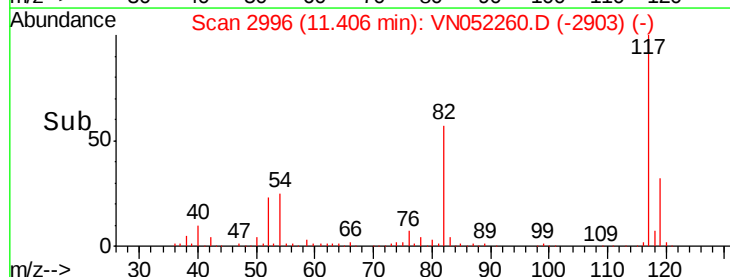
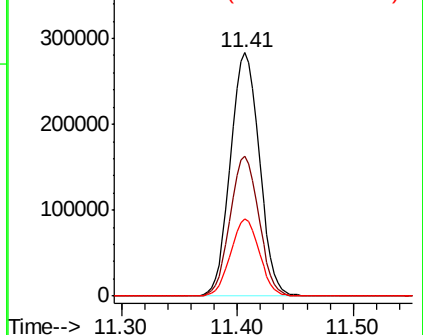
119 31.7 26.2 39.4

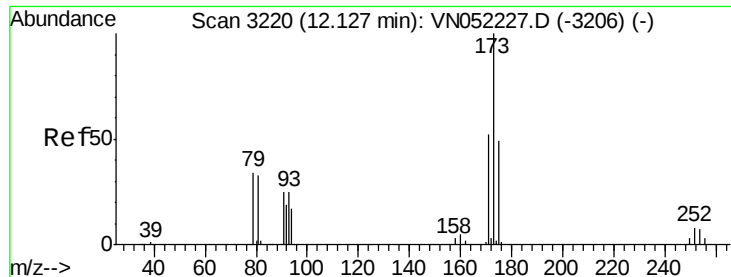


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

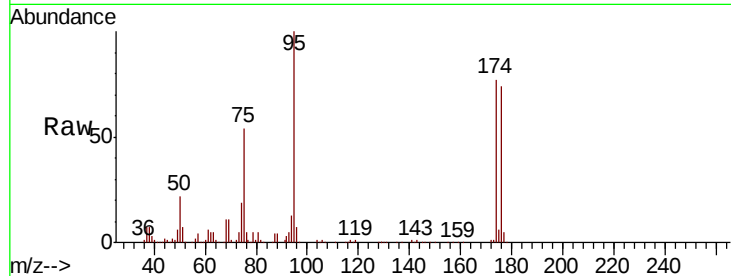




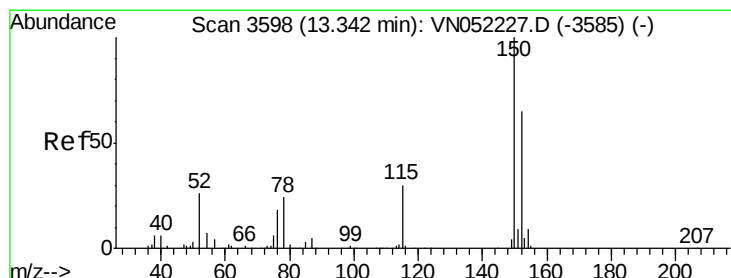
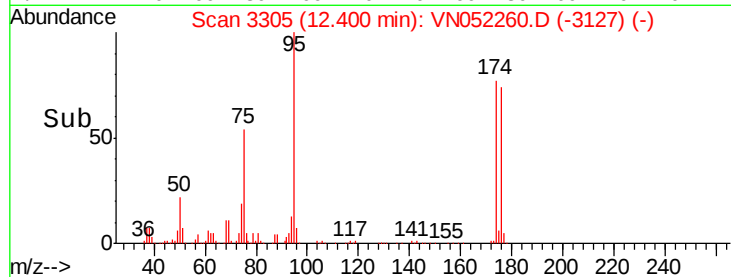
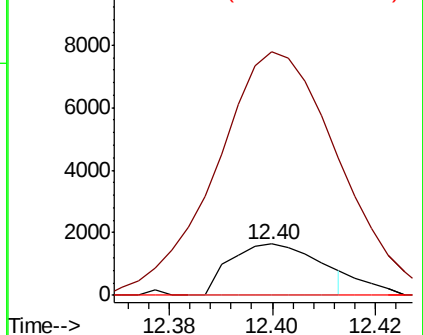
#71
Bromoform
Concen: 0.936 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#04

Tot Ion:173 Resp: 1961
Ion Ratio Lower Upper
173 100
175 576.7 24.5 73.5#
254 0.0 0.0 0.0

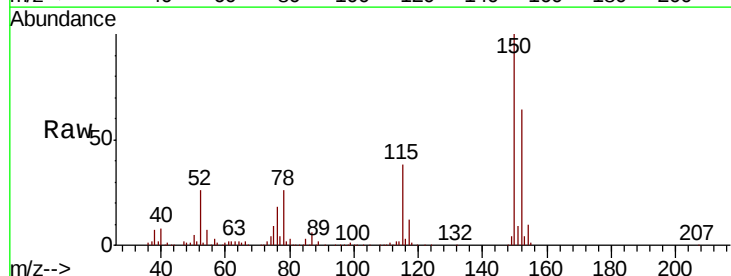


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

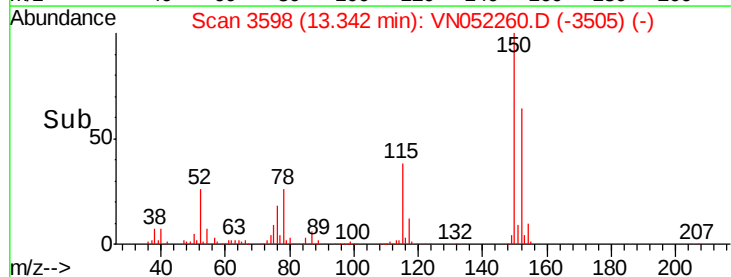
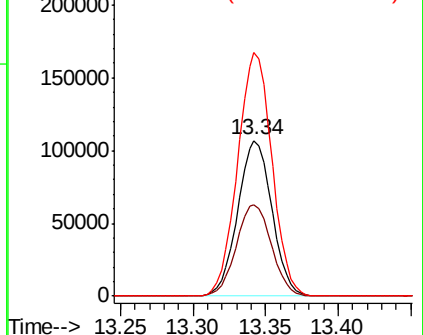


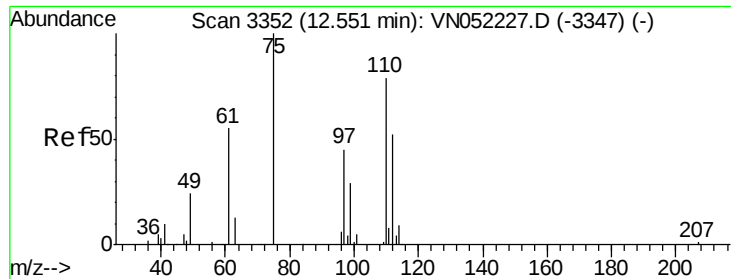
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052260.D
Acq: 12 Nov 2018 14:18

Tgt Ion:152 Resp: 175224
Ion Ratio Lower Upper
152 100
115 60.2 29.8 89.5
150 157.0 0.0 350.2



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

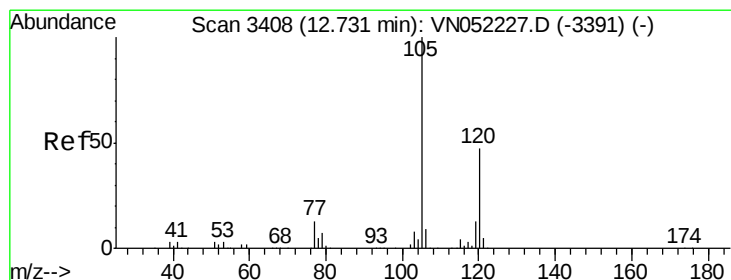
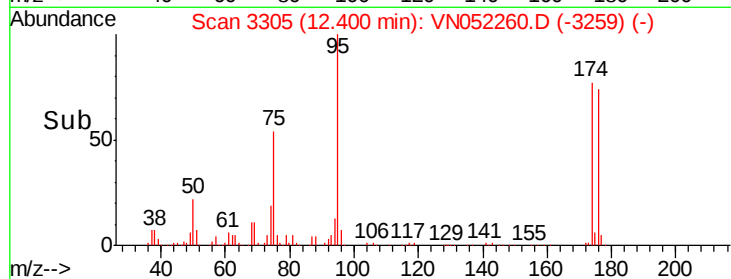
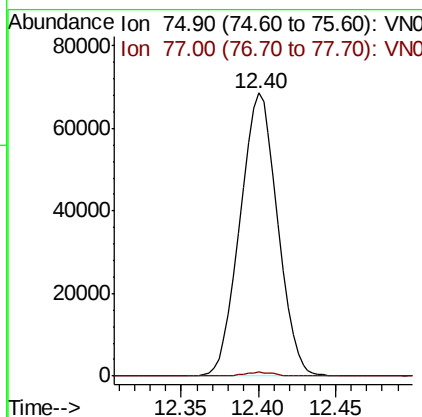
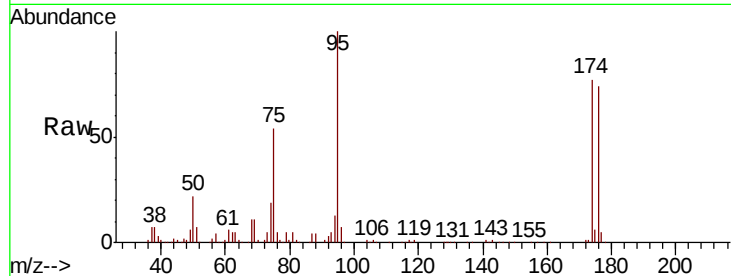




#76
 1,2,3-Trichloropropane
 Concen: 37.306 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052260.D
 Acq: 12 Nov 2018 14:18

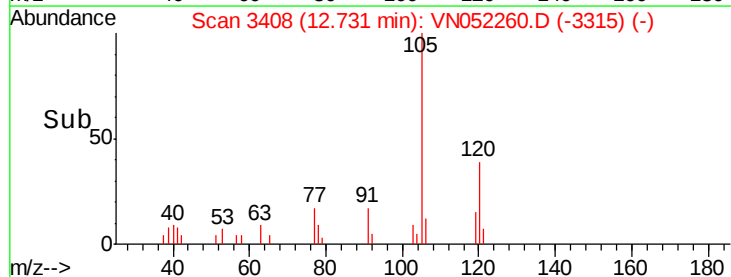
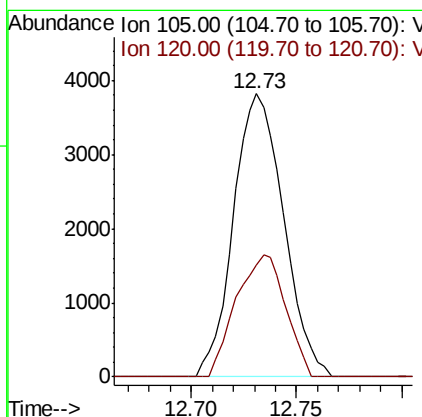
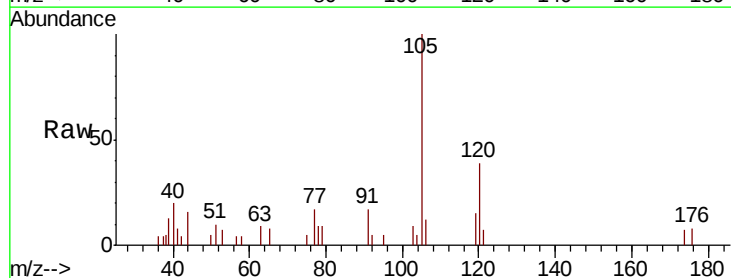
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#04

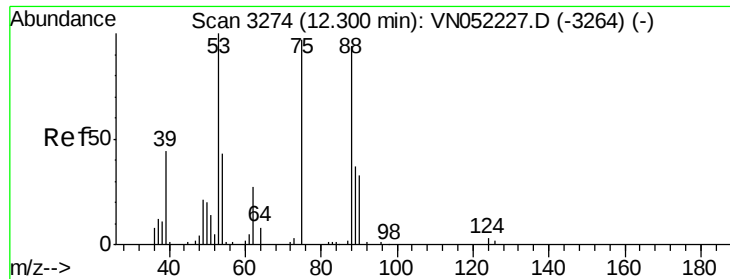
Tot Ion: 75 Resp: 115654
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.553 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN052260.D
 Acq: 12 Nov 2018 14:18

Tgt Ion: 105 Resp: 6303
 Ion Ratio Lower Upper
 105 100
 120 42.4 23.9 71.8





#81

trans-1,4-Dichloro-2-butene

Concen: 127.341 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052260.D

Acq: 12 Nov 2018 14:18

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#04

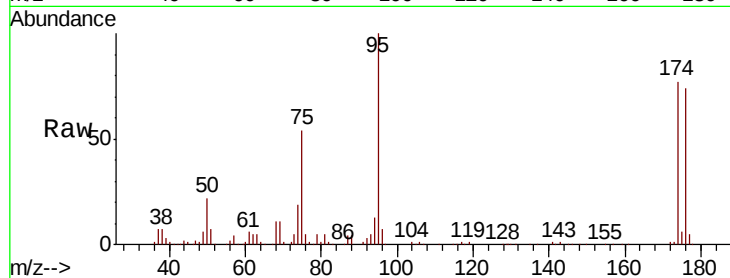
Tot Ion: 75 Resp: 115654

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 33.7 50.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

