

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052126.D
 Acq On : 2 Nov 2018 13:55
 Operator : MD\SY
 Sample : PB114370ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#15

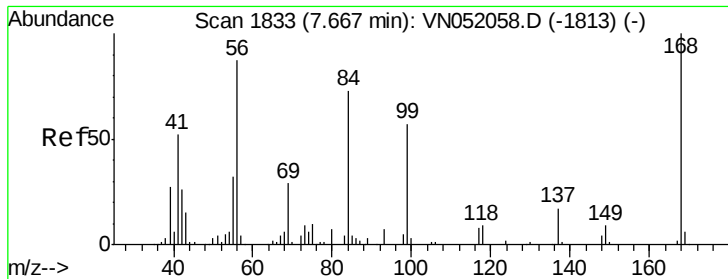
Quant Time: Nov 02 23:13:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	279598	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	532427	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	499258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	207424	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	242423	54.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.06%	
35) Dibromofluoromethane	7.59	113	197110	59.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.36%	
50) Toluene-d8	10.09	98	798061	59.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.90%	
62) 4-Bromofluorobenzene	12.40	95	270068	55.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.82	59	181	0.806	ug/l #	76
13) Acrolein	3.62	56	224	24.934	ug/l #	12
16) Acetone	3.82	43	14699	15.348	ug/l #	86
18) Methyl Acetate	4.33	43	2061	0.676	ug/l #	86
20) Methylene Chloride	4.56	84	6946	1.903	ug/l #	77
25) 2-Butanone	6.85	43	2124	1.414	ug/l	92
29) Tetrahydrofuran	7.21	42	832	0.831	ug/l #	68
31) Cyclohexane	7.66	56	7622	Below Cal	#	40
36) 1,1-Dichloropropene	7.67	75	26375	4.872	ug/l #	50
38) Carbon Tetrachloride	7.67	117	29853	6.395	ug/l #	16
43) Isopropyl Acetate	8.17	43	191218	29.670	ug/l	97
48) Methyl methacrylate	9.18	41	4925	1.507	ug/l #	18
49) 1,4-Dioxane	9.20	88	67	27.445	ug/l #	32
51) 4-Methyl-2-Pentanone	9.99	43	1645	0.470	ug/l #	87
59) 2-Hexanone	10.77	43	12726	5.098	ug/l #	57
71) Bromoform	12.38	173	248	2.290	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	144176	37.971	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	144176	126.032	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	66	1.024	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

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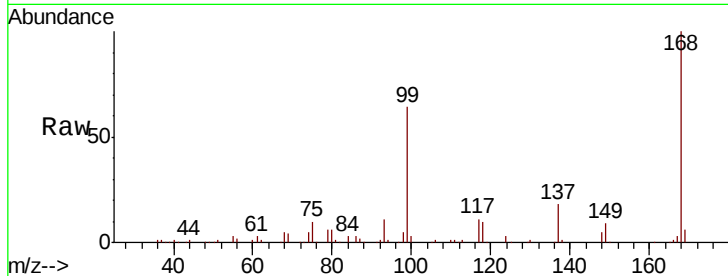
PB114370ZHE#15

Tot Ion:168 Resp: 279598

Ion Ratio Lower Upper

168 100

99 64.4 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052058.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN052126.D (-1740) (-)

7.67

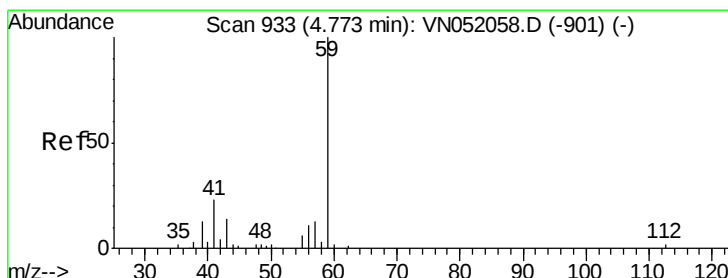
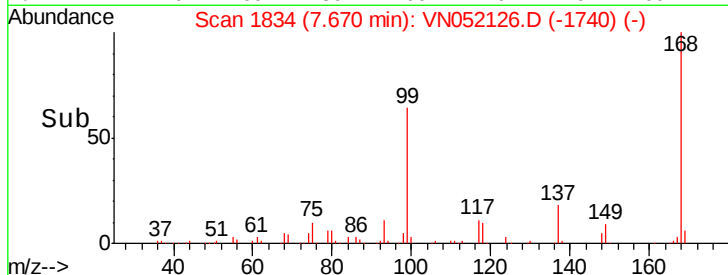
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.806 ug/l

RT: 4.82 min Scan# 946

Delta R.T. 0.04 min

Lab File: VN052126.D

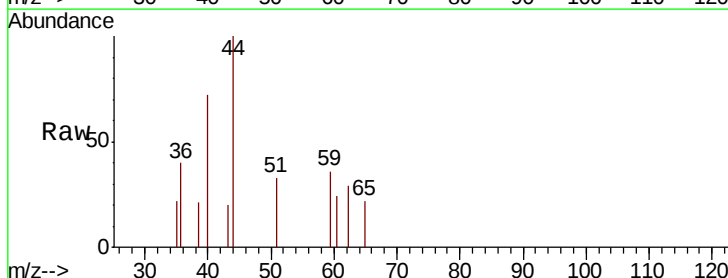
Acq: 2 Nov 2018 13:55

Tgt Ion: 59 Resp: 181

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN052058.D (-901) (-)

Ion 57.00 (56.70 to 57.70): VN052126.D (-840) (-)

4.82

300

250

200

150

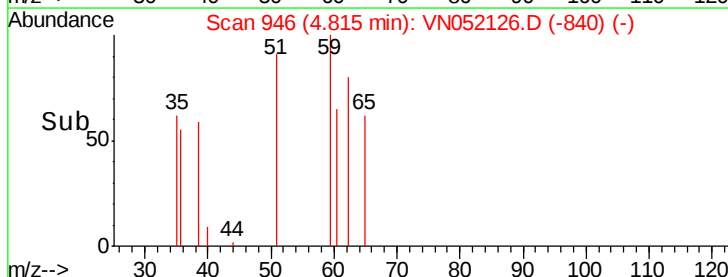
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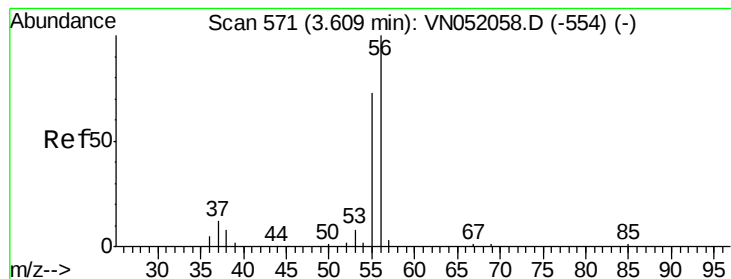
50

0

4.80 4.81 4.82 4.83

Time-->





#13

Acrolein

Concen: 24.934 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

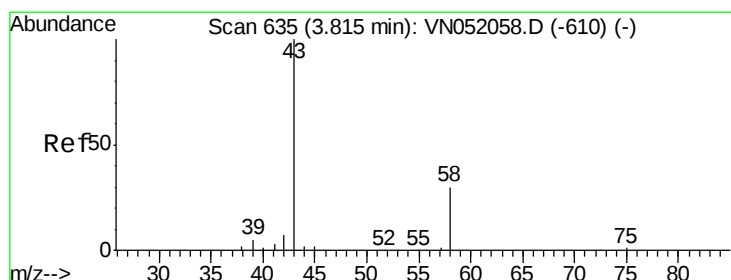
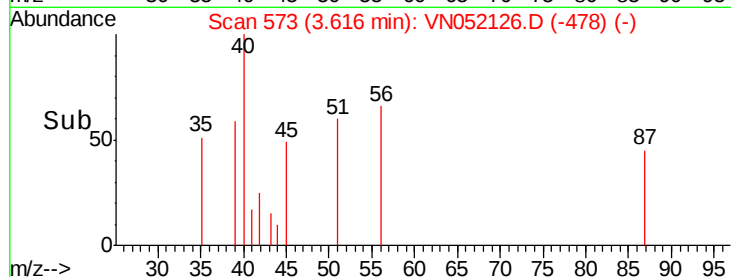
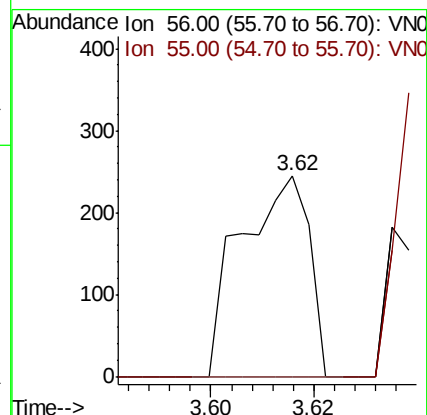
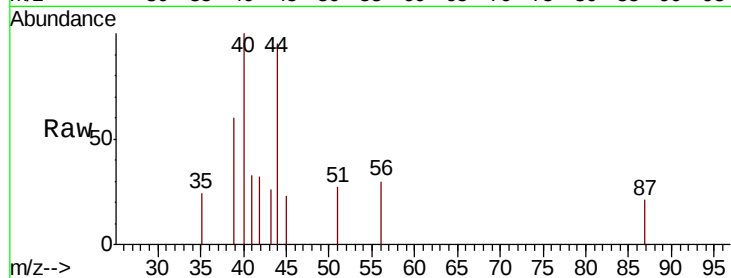
PB114370ZHE#15

Tot Ion: 56 Resp: 224

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



#16

Acetone

Concen: 15.348 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052126.D

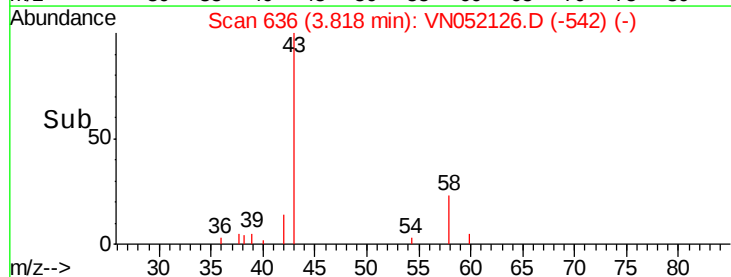
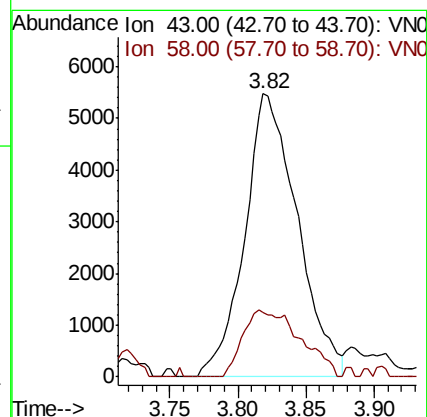
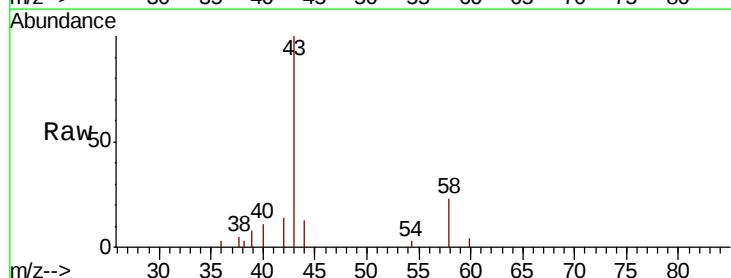
Acq: 2 Nov 2018 13:55

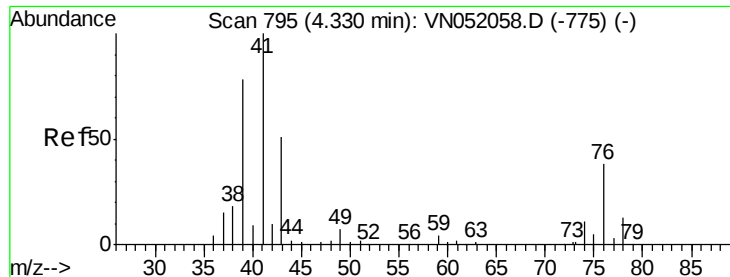
Tgt Ion: 43 Resp: 14699

Ion Ratio Lower Upper

43 100

58 22.7 24.2 36.2#

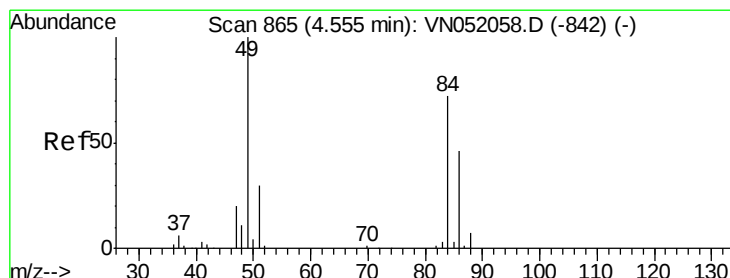
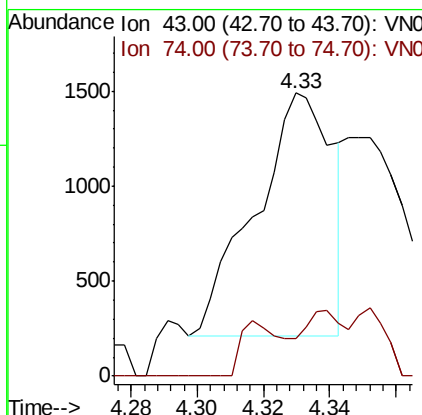
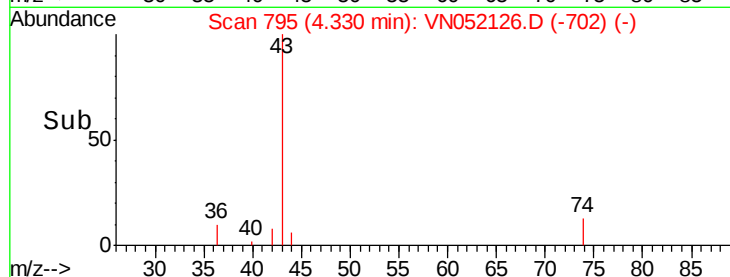
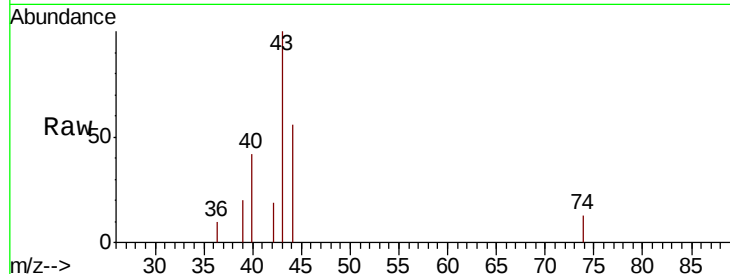




#18
Methyl Acetate
Concen: 0.676 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

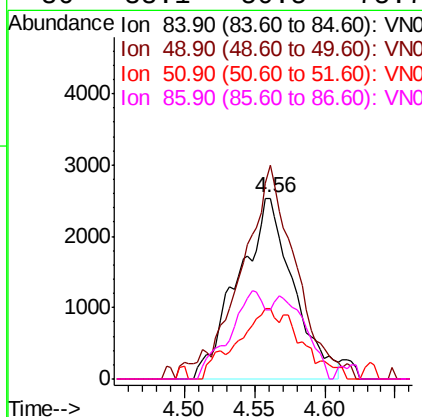
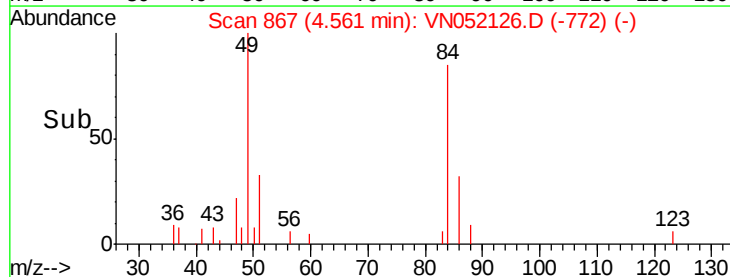
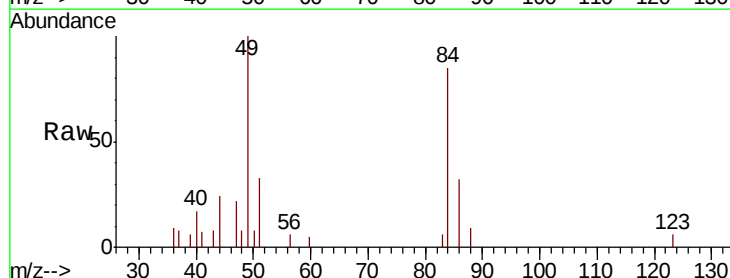
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#15

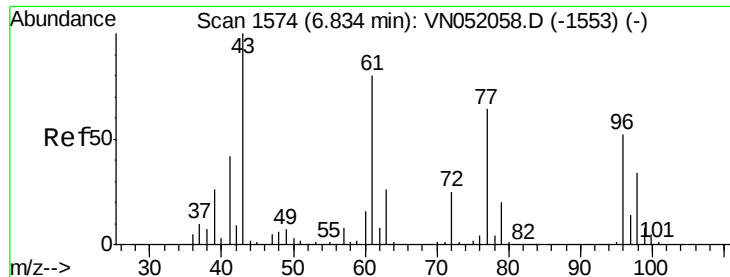
Tot Ion: 43 Resp: 2061
Ion Ratio Lower Upper
43 100
74 15.7 17.9 26.9#



#20
Methylene Chloride
Concen: 1.903 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

Tgt Ion: 84 Resp: 6946
Ion Ratio Lower Upper
84 100
49 109.6 110.6 165.8#
51 38.7 33.7 50.5
86 38.1 50.5 75.7#

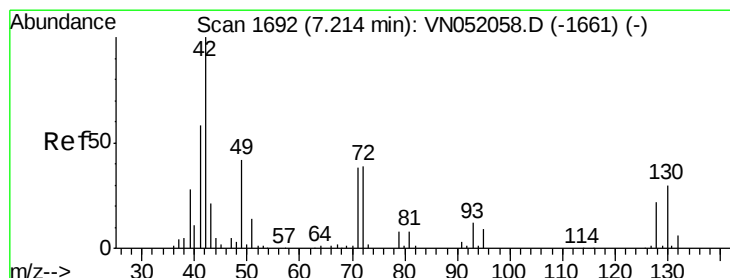
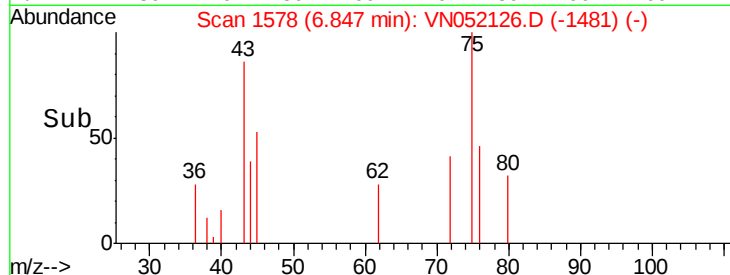
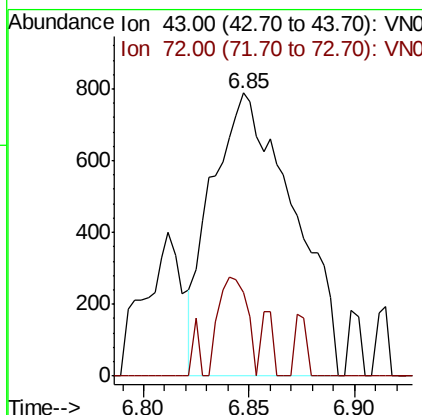
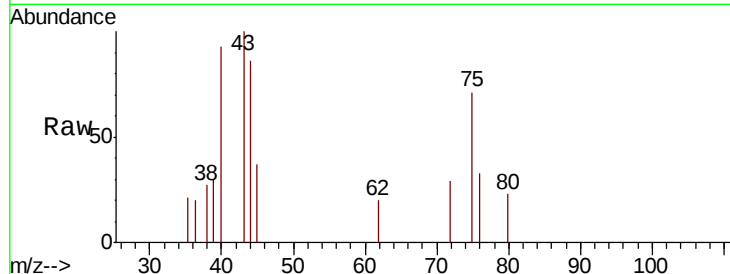




#25
2-Butanone
Concen: 1.414 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

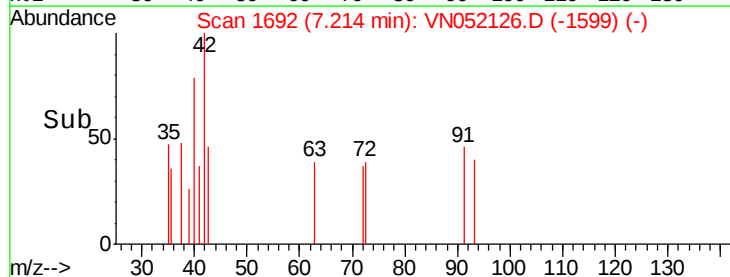
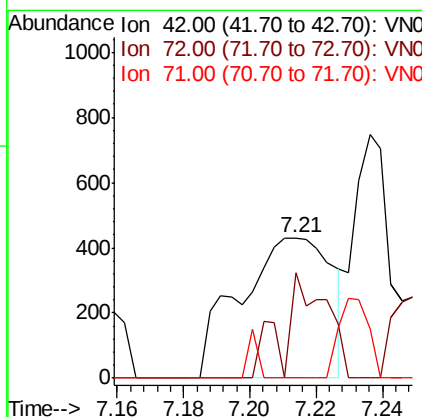
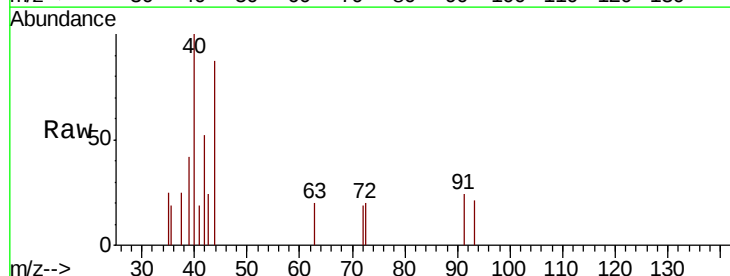
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#15

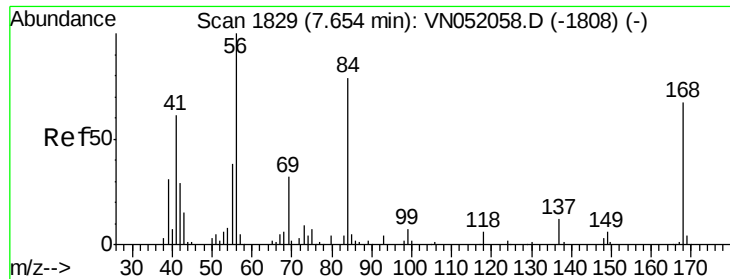
Tot Ion: 43 Resp: 2124
Ion Ratio Lower Upper
43 100
72 29.4 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.831 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

Tgt Ion: 42 Resp: 832
Ion Ratio Lower Upper
42 100
72 35.7 32.5 48.7
71 3.5 30.6 46.0#

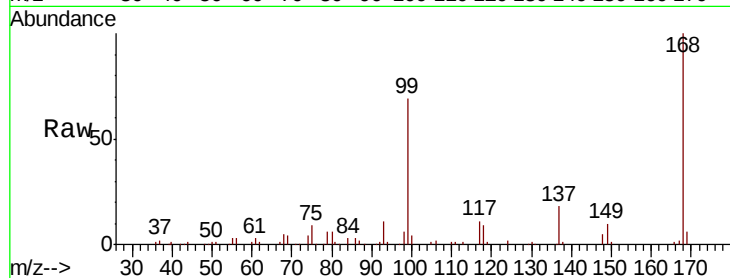




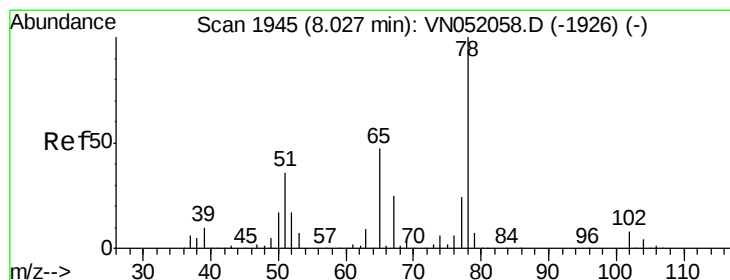
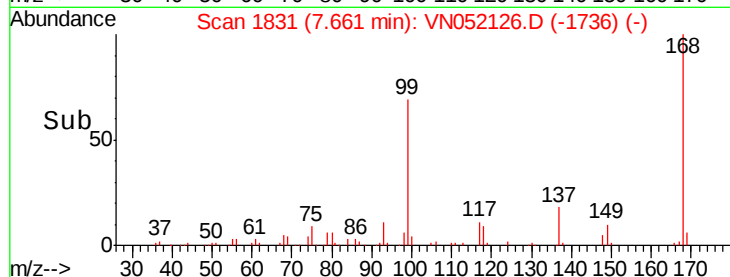
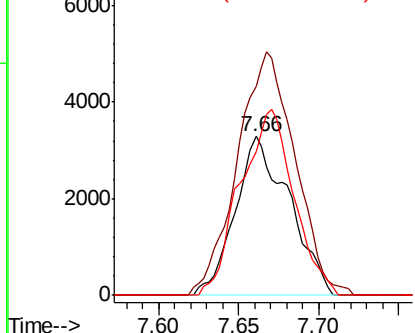
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#15

Tot Ion: 56 Resp: 7622
Ion Ratio Lower Upper
56 100
69 131.9 25.8 38.6#
84 90.5 63.5 95.3

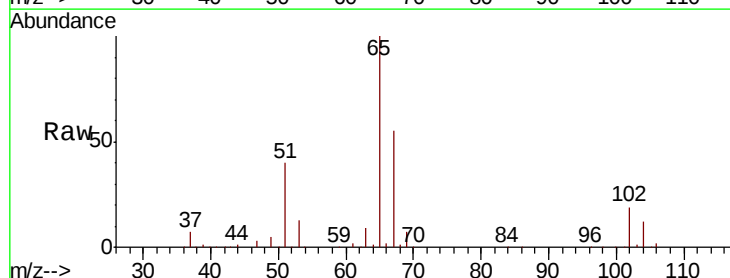


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

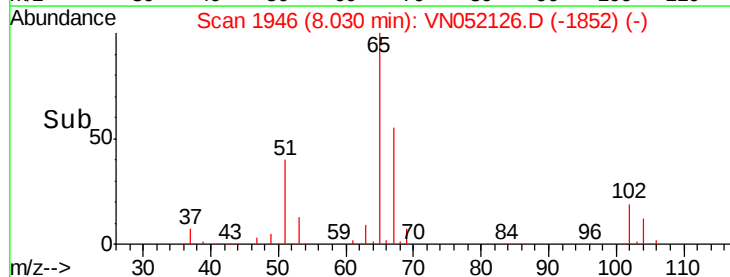
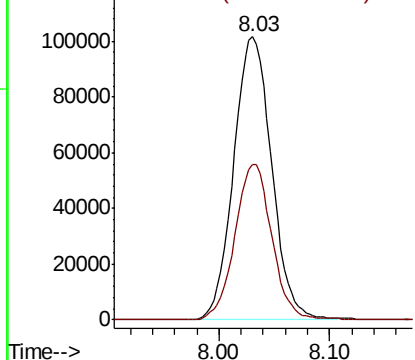


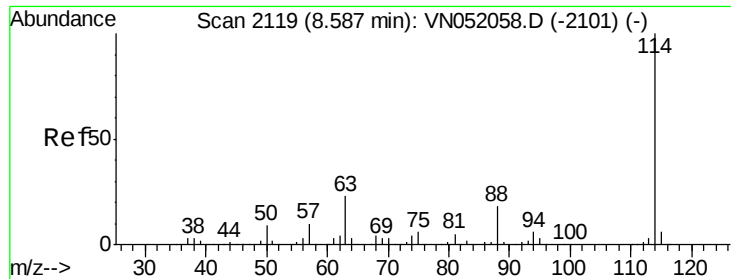
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

Tgt Ion: 65 Resp: 242423
Ion Ratio Lower Upper
65 100
67 53.4 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

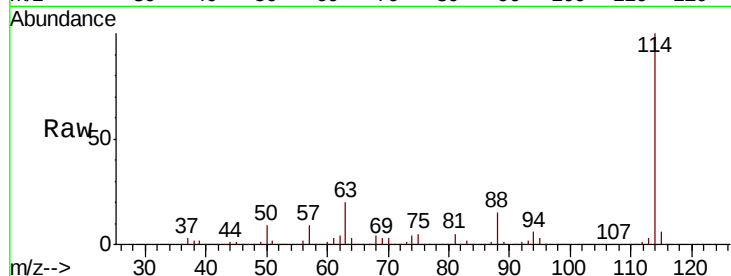




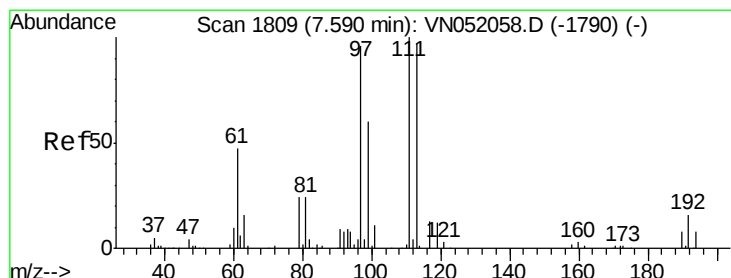
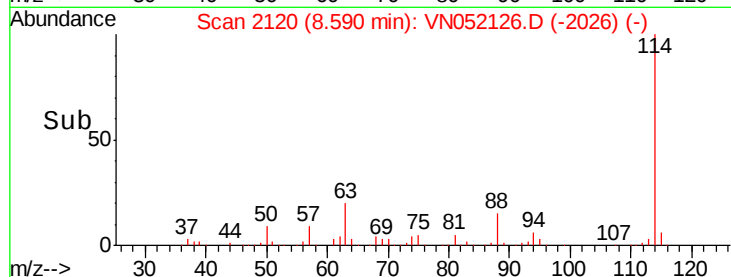
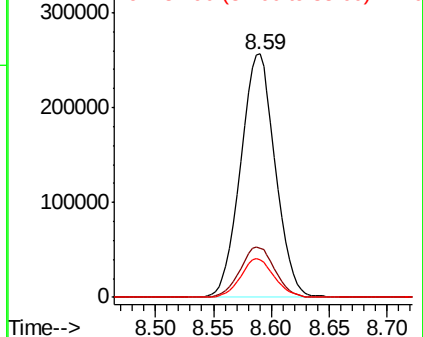
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2120
Delta R.T. 0.00 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#15

Tot Ion:114 Resp: 532427
Ion Ratio Lower Upper
114 100
63 20.4 0.0 46.0
88 15.5 0.0 35.4

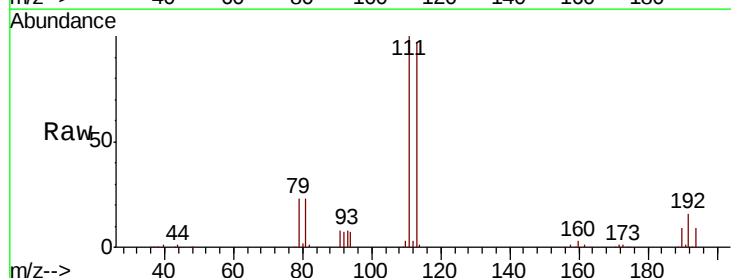


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

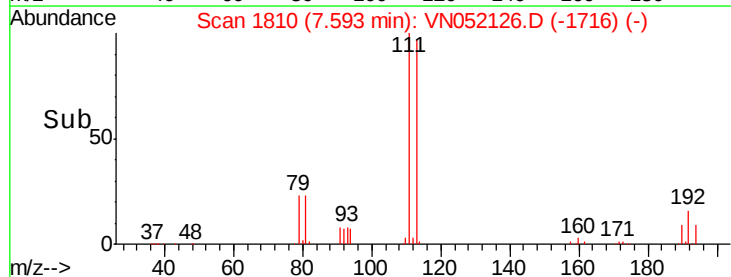
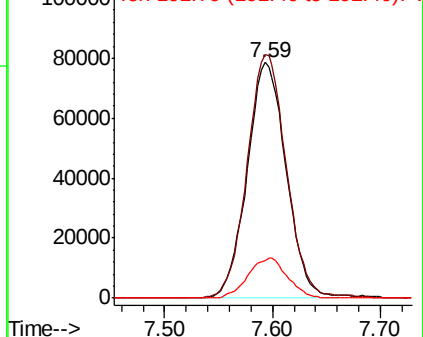


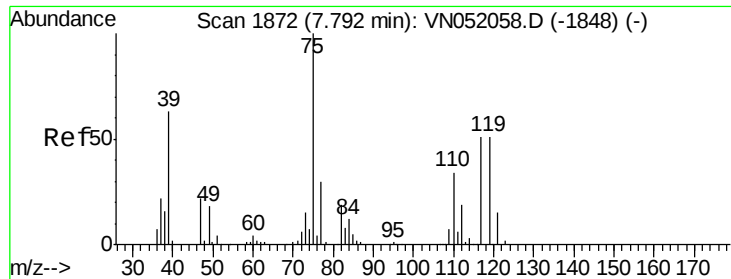
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

Tgt Ion:113 Resp: 197110
Ion Ratio Lower Upper
113 100
111 103.7 83.1 124.7
192 17.1 12.7 19.1



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

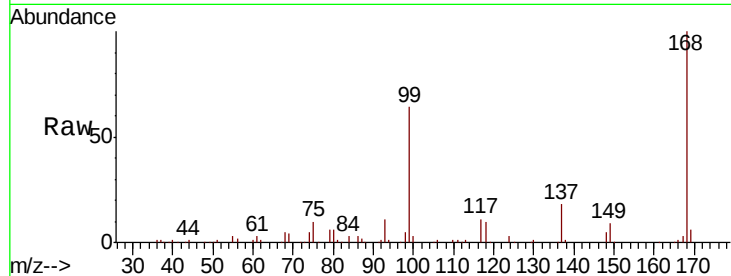




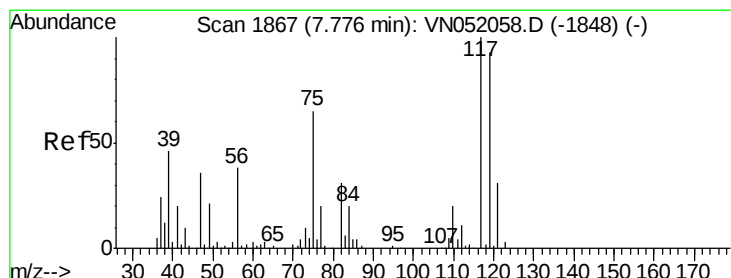
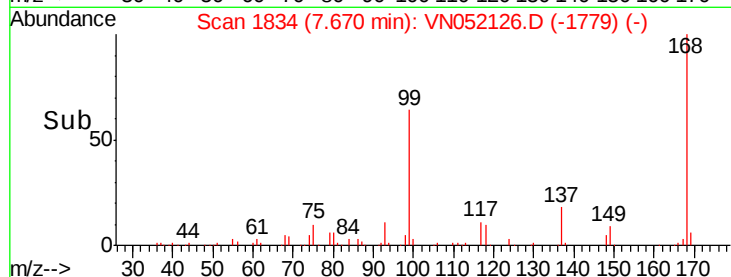
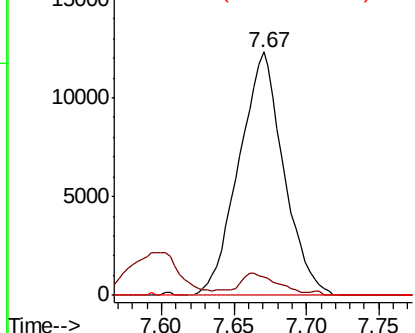
#36
 1,1-Dichloropropene
 Concen: 4.872 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052126.D
 Acq: 2 Nov 2018 13:55

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#15

Tot Ion	75	Resp	26375
Ion Ratio	Lower	Upper	
75	100		
110	7.4	16.0	48.0#
77	0.0	24.5	36.7#

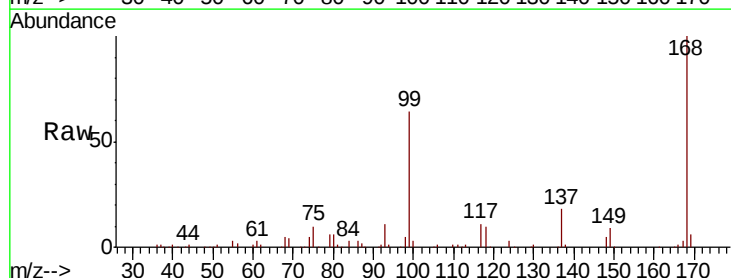


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

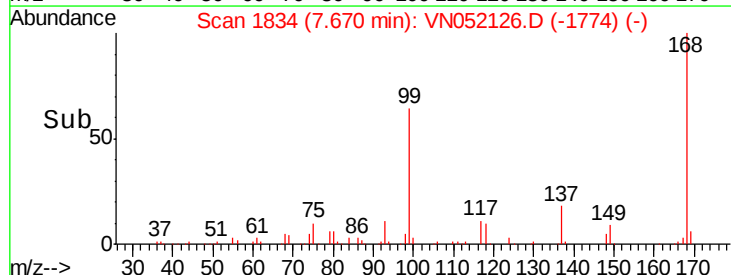
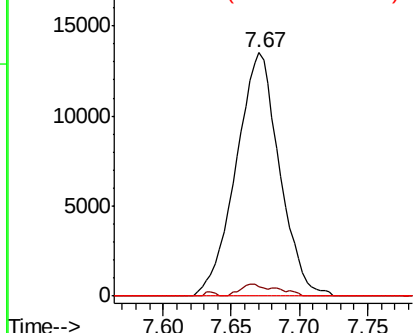


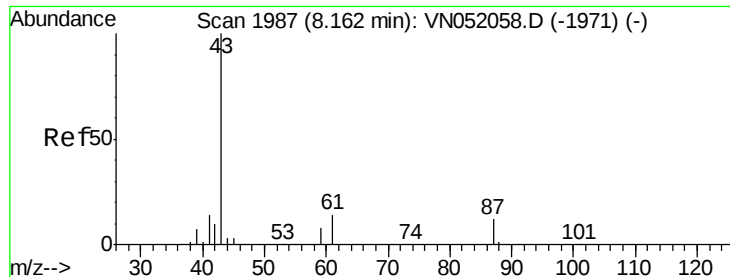
#38
 Carbon Tetrachloride
 Concen: 6.395 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN052126.D
 Acq: 2 Nov 2018 13:55

Tgt Ion	117	Resp	29853
Ion Ratio	Lower	Upper	
117	100		
119	3.8	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: 29.670 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#15

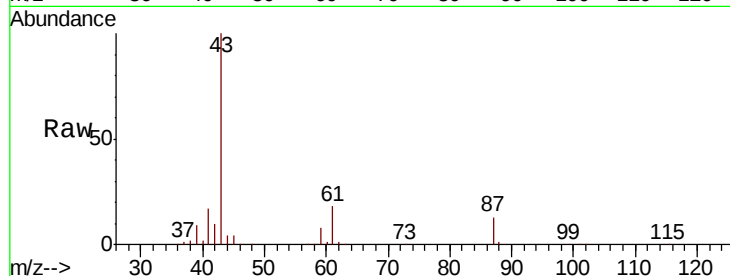
Tot Ion: 43 Resp: 191218

Ion Ratio Lower Upper

43 100

61 17.3 15.4 23.0

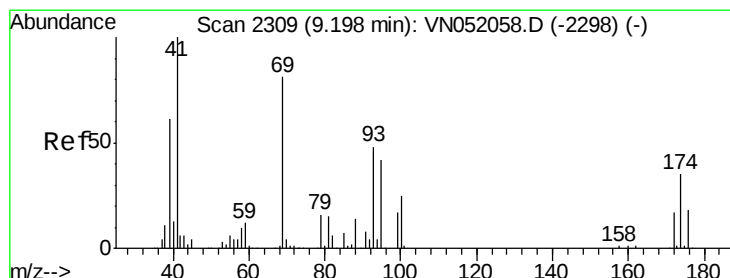
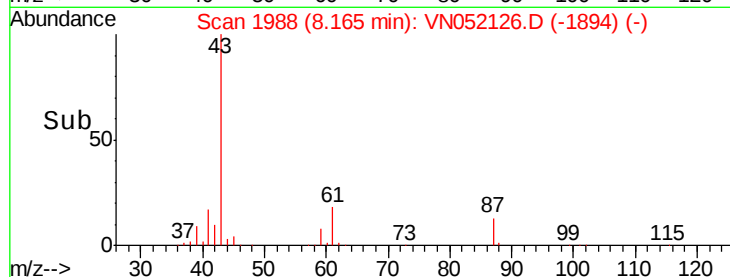
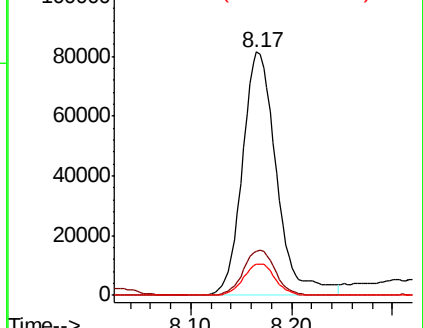
87 11.9 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.507 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

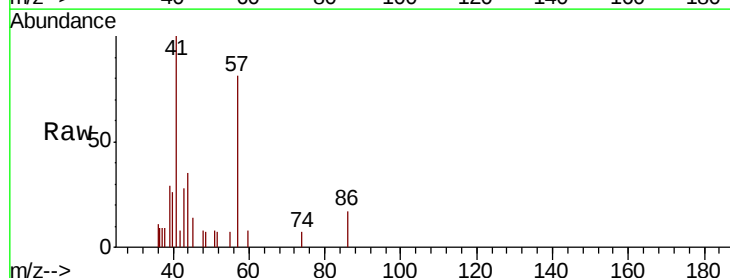
Tgt Ion: 41 Resp: 4925

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

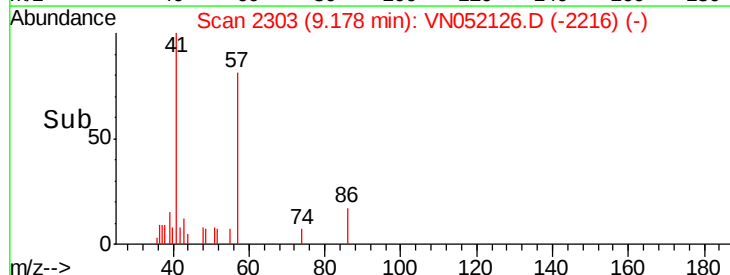
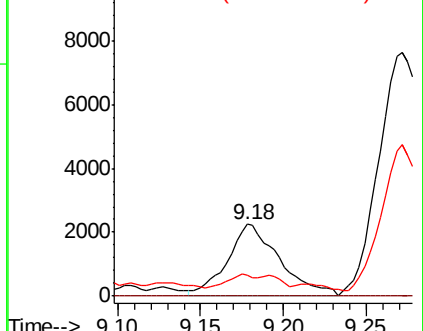
39 9.7 50.5 75.7#

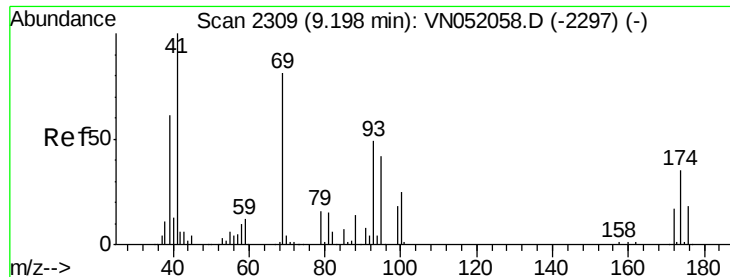


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

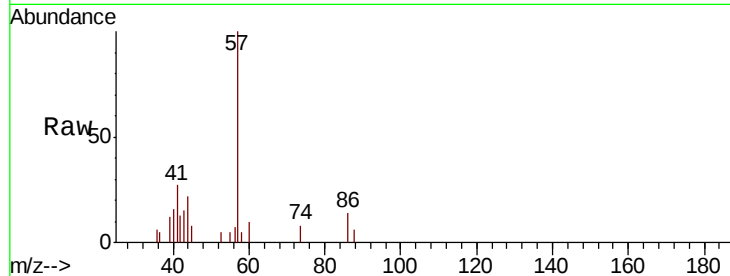




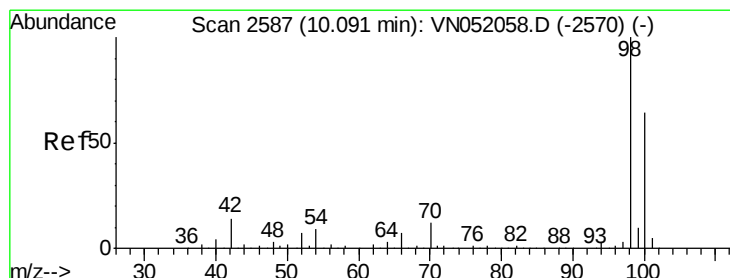
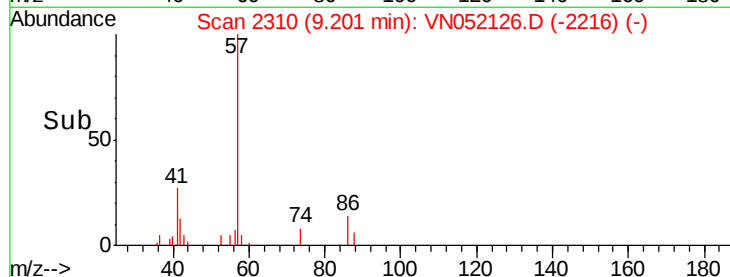
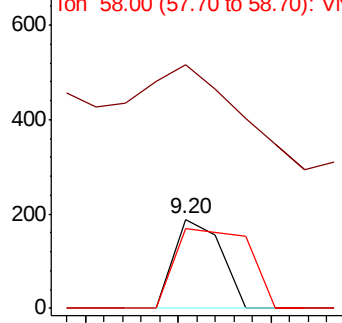
#49
1,4-Dioxane
Concen: 27.445 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#15

Tot Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 138.8 62.8 94.2#

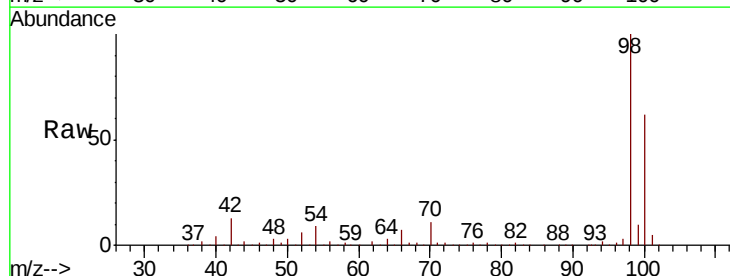


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

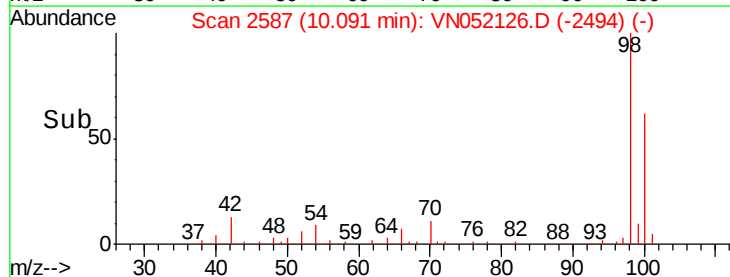
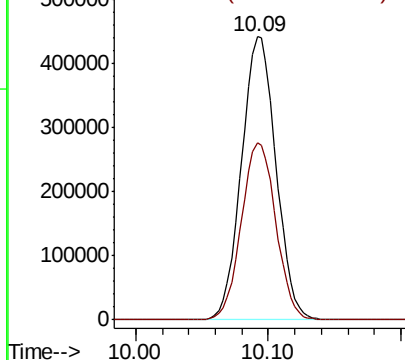


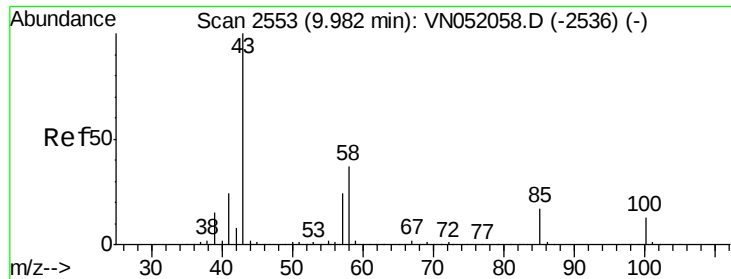
#50
Toluene-d8
Concen: 27.445 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052126.D
Acq: 2 Nov 2018 13:55

Tgt Ion: 98 Resp: 798061
Ion Ratio Lower Upper
98 100
100 62.8 51.4 77.2



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





#51

4-Methyl-2-Pentanone

Concen: 0.470 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

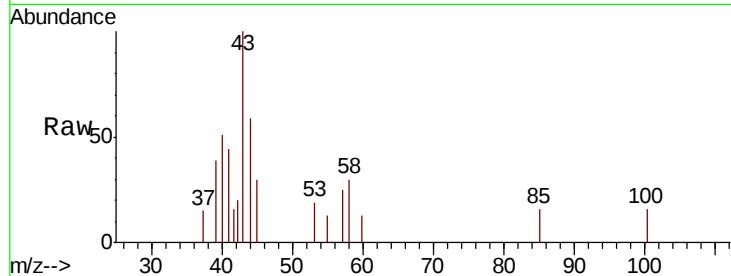
PB114370ZHE#15

Tot Ion: 43 Resp: 1645

Ion Ratio Lower Upper

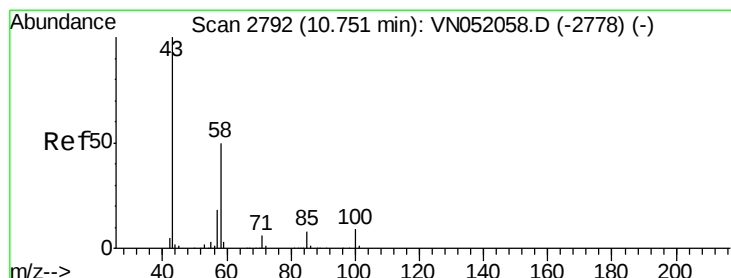
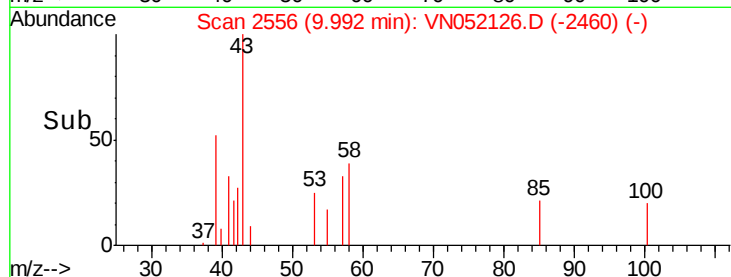
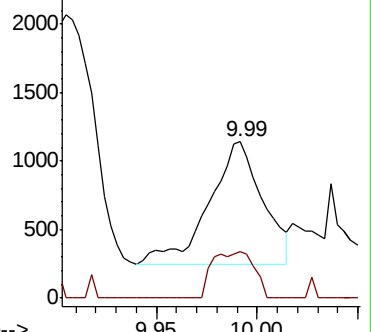
43 100

58 29.4 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) (-)



#59

2-Hexanone

Concen: 5.098 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052126.D

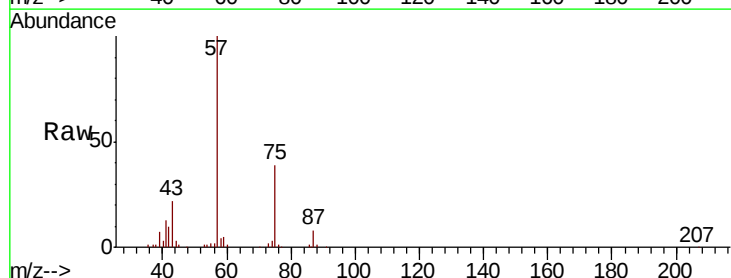
Acq: 2 Nov 2018 13:55

Tgt Ion: 43 Resp: 12726

Ion Ratio Lower Upper

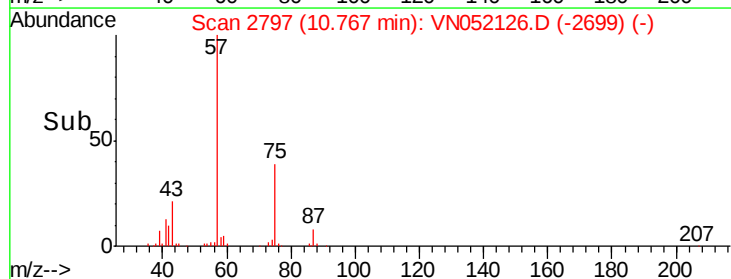
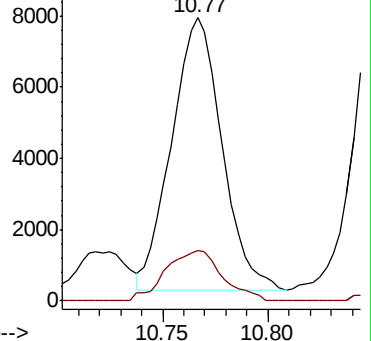
43 100

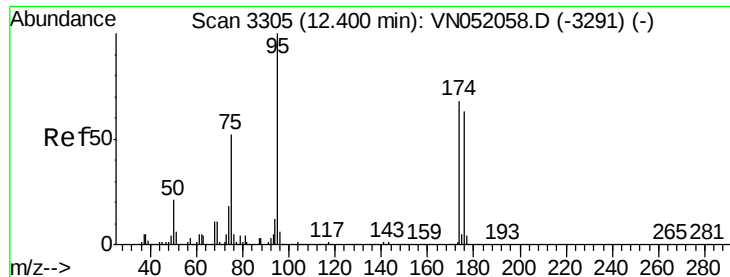
58 20.7 25.2 75.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-2778) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-2778) (-)





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#15

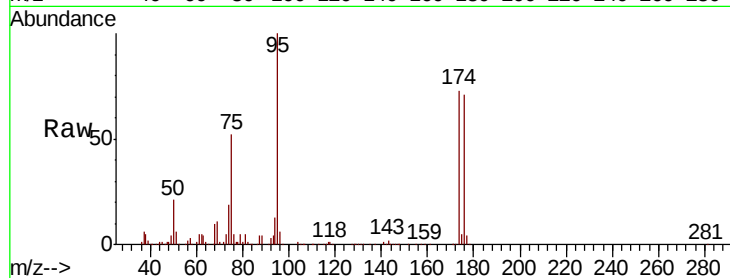
Tot Ion: 95 Resp: 270068

Ion Ratio Lower Upper

95 100

174 72.4 0.0 131.8

176 69.7 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

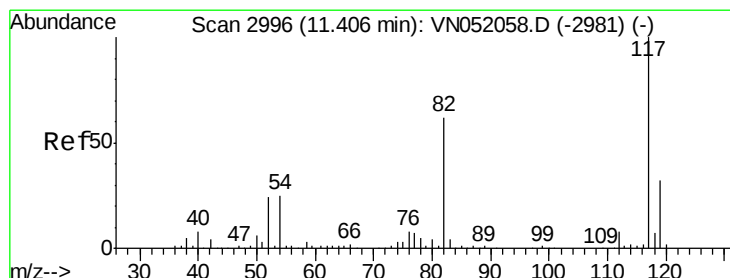
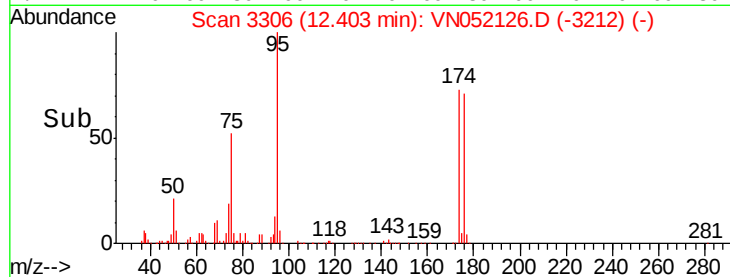
100000

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: VN052126.D

Acq: 2 Nov 2018 13:55

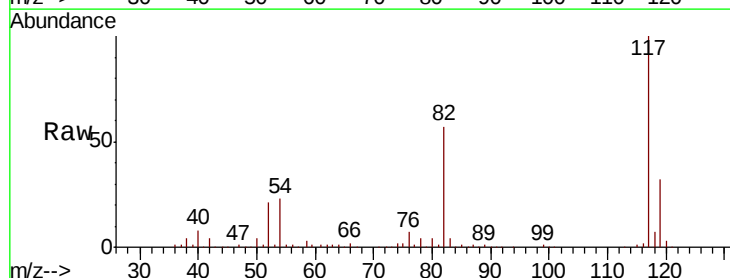
Tgt Ion: 117 Resp: 499258

Ion Ratio Lower Upper

117 100

82 56.6 49.9 74.9

119 32.0 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

400000

300000

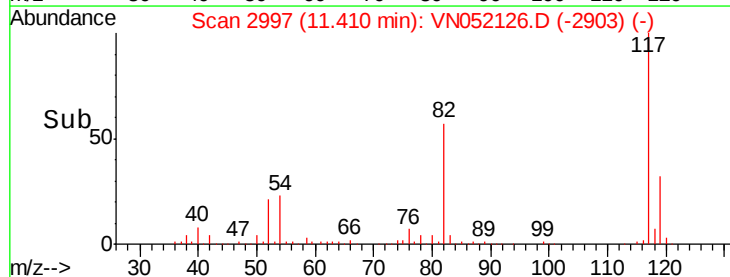
200000

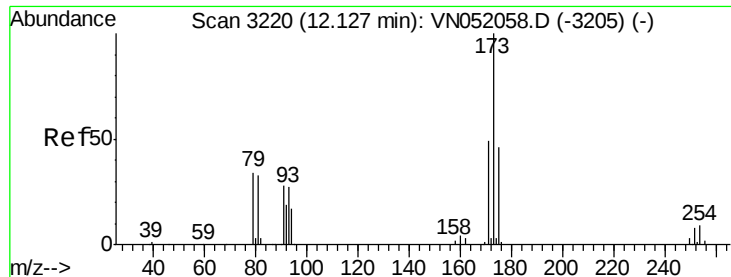
100000

0

11.40 11.50

Time-->





#71

Bromoform

Concen: 2.290 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#15

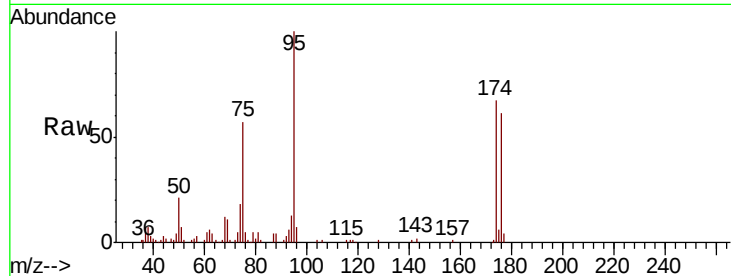
Tot Ion:173 Resp: 248

Ion Ratio Lower Upper

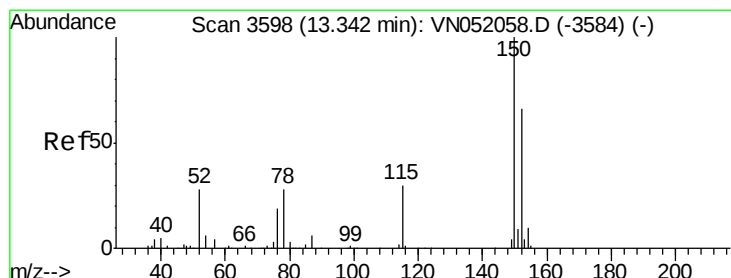
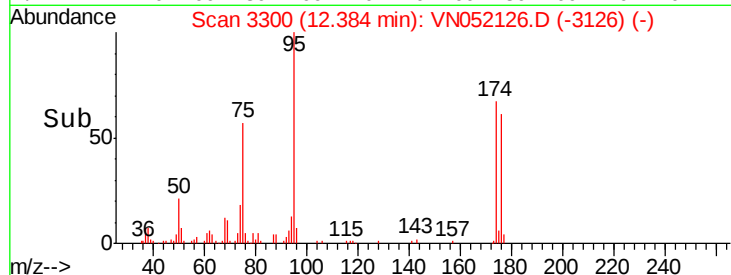
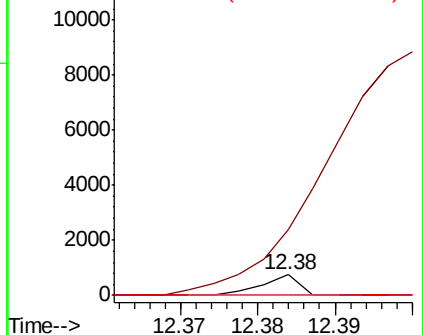
173 100

175 5443.5 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: VN052126.D

Acq: 2 Nov 2018 13:55

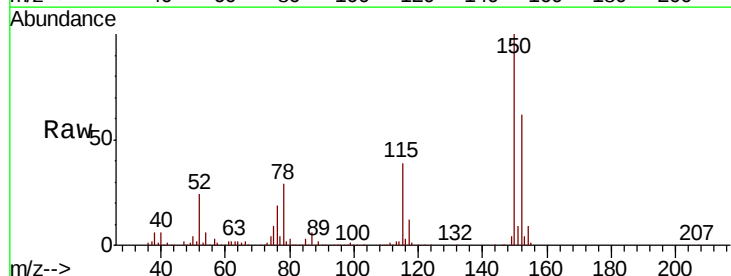
Tgt Ion:152 Resp: 207424

Ion Ratio Lower Upper

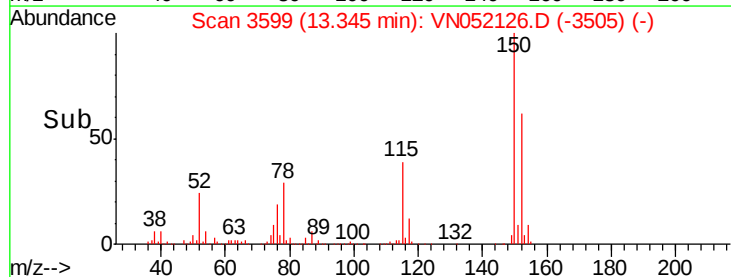
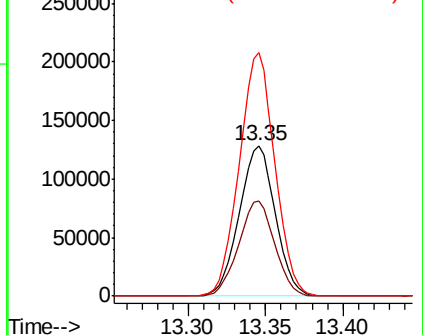
152 100

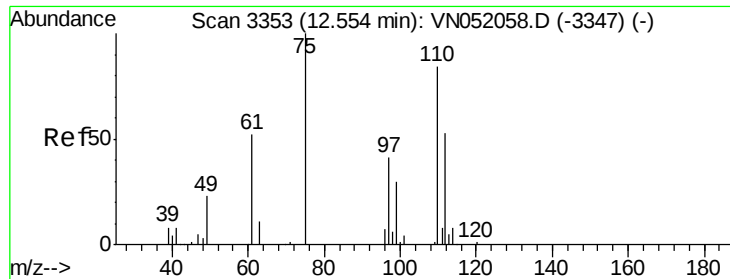
115 63.3 31.6 95.0

150 160.2 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: 37.971 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

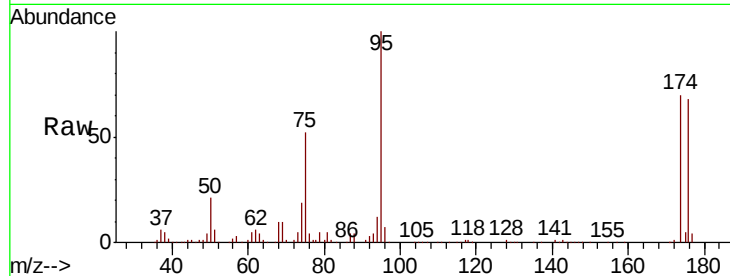
PB114370ZHE#15

Tot Ion: 75 Resp: 144176

Ion Ratio Lower Upper

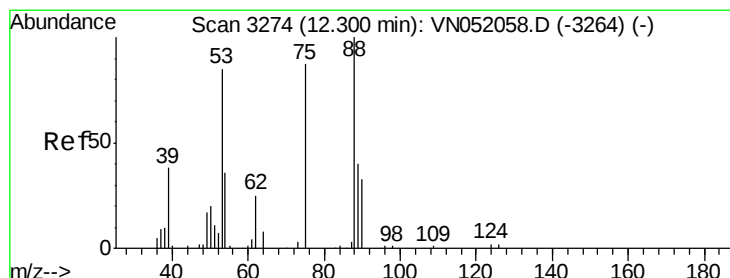
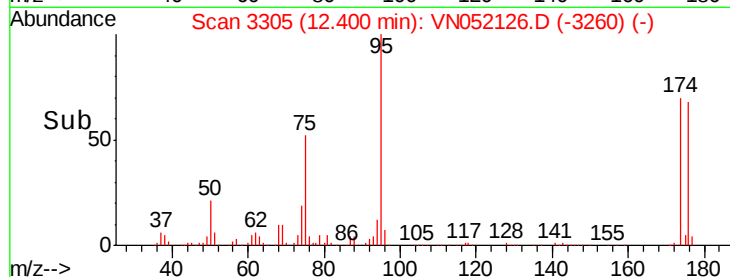
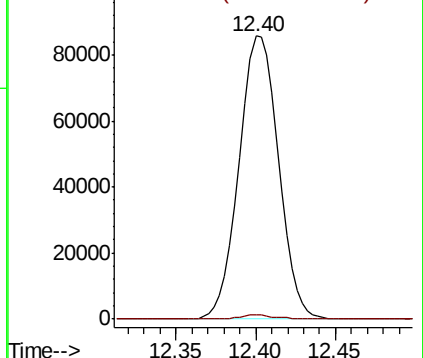
75 100

77 1.3 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: 126.032 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

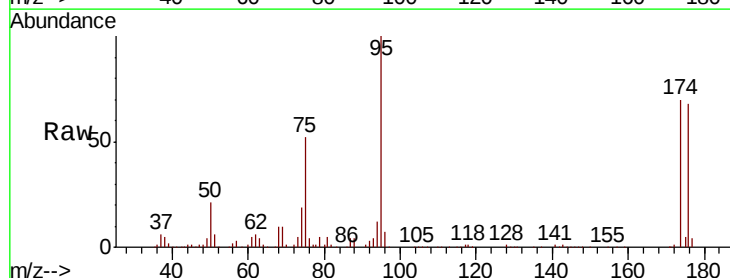
Tgt Ion: 75 Resp: 144176

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.6#

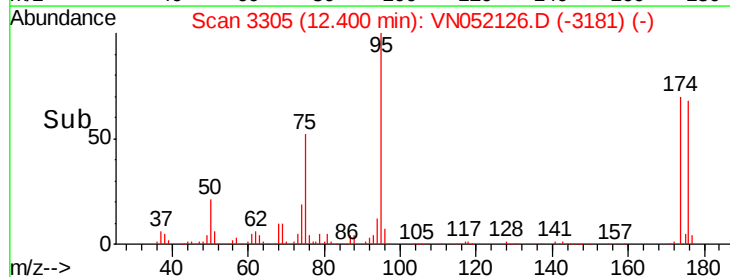
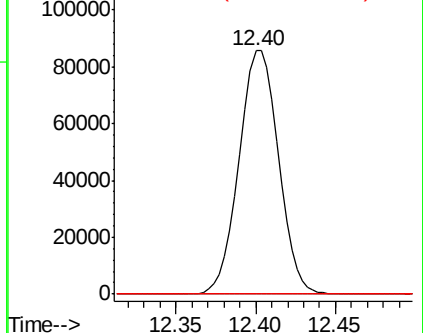
89 0.0 36.6 54.8#

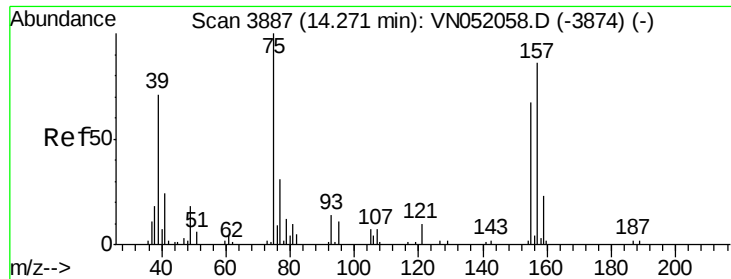


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.024 ug/l

RT: 14.26 min Scan# 3885

Delta R.T. -0.01 min

Lab File: VN052126.D

Acq: 2 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#15

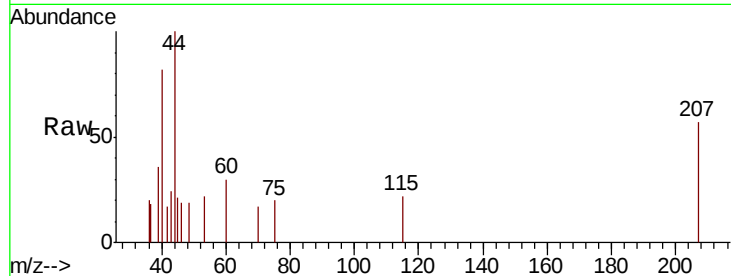
Tot Ion: 75 Resp: 66

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): VN052126.D (-3794) (-)

Ion 154.80 (154.50 to 155.50): VN052126.D (-3794) (-)

Ion 156.80 (156.50 to 157.50): VN052126.D (-3794) (-)

