

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052264.D
 Acq On : 12 Nov 2018 16:05
 Operator : MD\SY
 Sample : PB114678ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#08

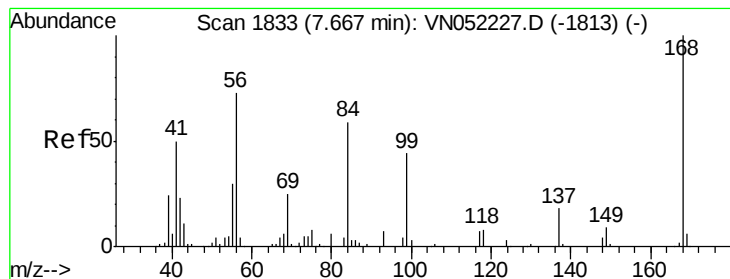
Quant Time: Nov 13 00:15:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	343895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	578067	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	478029	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	164059	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	227403	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
35) Dibromofluoromethane	7.59	113	179931	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
50) Toluene-d8	10.09	98	721143	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
62) 4-Bromofluorobenzene	12.40	95	201365	42.49	ug/l	0.00
Spiked Amount			Recovery	=	84.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	59	34.235	ug/l #	12
16) Acetone	3.82	43	3933	Below Cal		95
20) Methylene Chloride	4.56	84	5944	1.386	ug/l	95
29) Tetrahydrofuran	7.21	42	328	0.251	ug/l #	55
31) Cyclohexane	7.67	56	9619	0.642	ug/l #	19
36) 1,1-Dichloropropene	7.67	75	29585	5.071	ug/l #	51
38) Carbon Tetrachloride	7.67	117	36532	6.909	ug/l #	16
43) Isopropyl Acetate	8.16	43	23322	3.049	ug/l #	89
45) 1,2-Dichloropropane	9.27	63	1278	0.274	ug/l #	44
48) Methyl methacrylate	9.18	41	5385	1.336	ug/l #	15
49) 1,4-Dioxane	9.27	88	68	2.099	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	7798	1.846	ug/l #	40
54) cis-1,3-Dichloropropene	9.91	75	39428	6.094	ug/l #	71
57) 1,3-Dichloropropane	10.76	76	8384	1.286	ug/l #	43
59) 2-Hexanone	10.76	43	134349	45.304	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	112855	38.880	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7332	0.687	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	112855	132.716	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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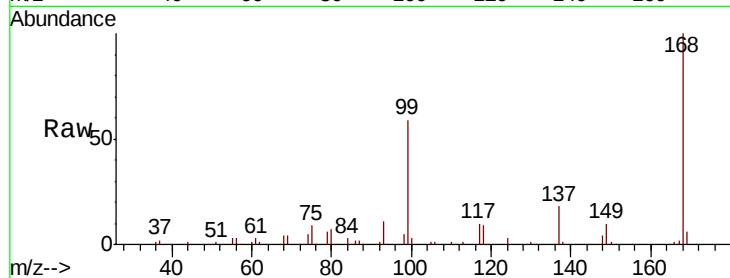
PB114678ZHE#08

Tot Ion:168 Resp: 343895

Ion Ratio Lower Upper

168 100

99 58.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

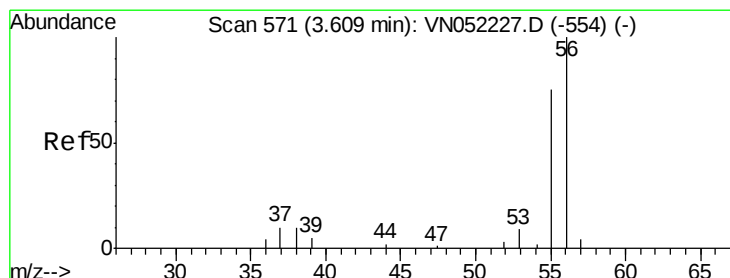
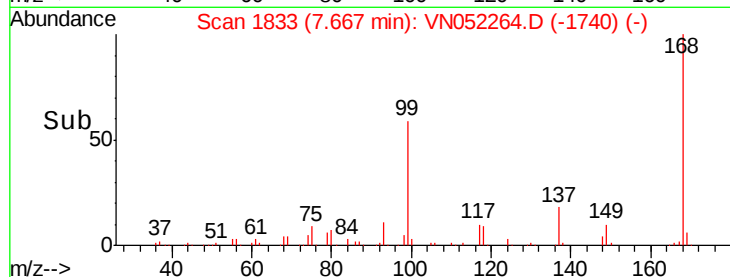
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 34.235 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052264.D

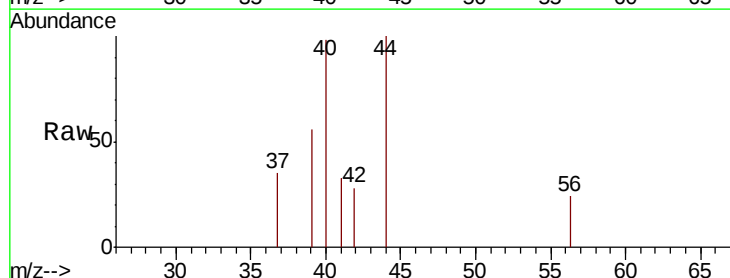
Acq: 12 Nov 2018 16:05

Tgt Ion: 56 Resp: 59

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

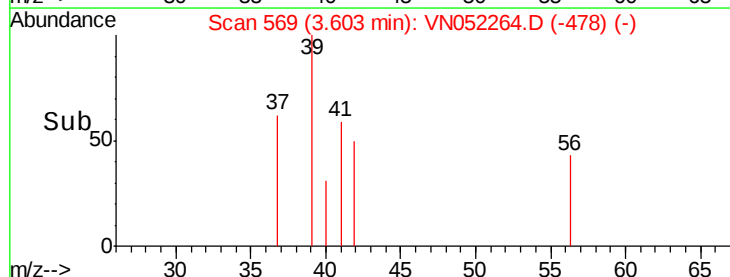
150

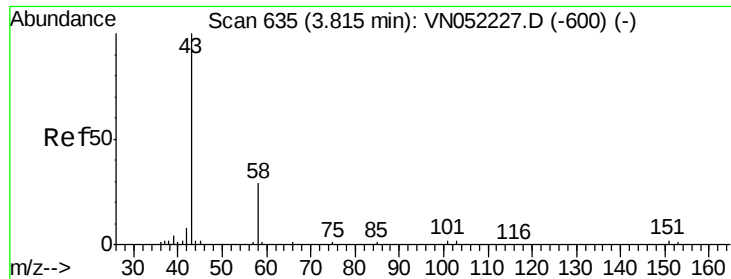
100

50

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

Instrument :

MSVOA_N

ClientSampleId :

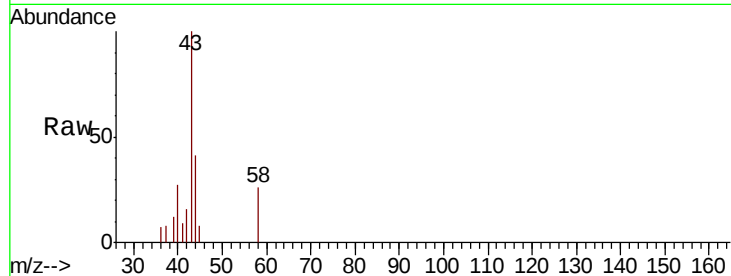
PB114678ZHE#08

Tot Ion: 43 Resp: 3933

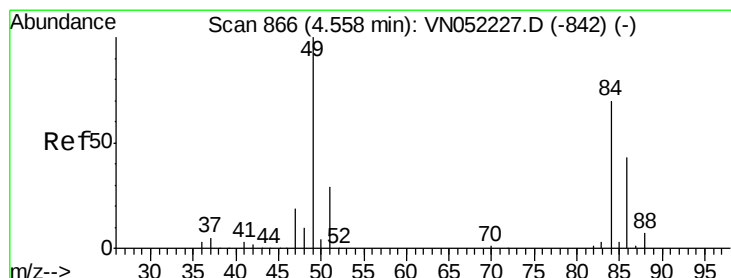
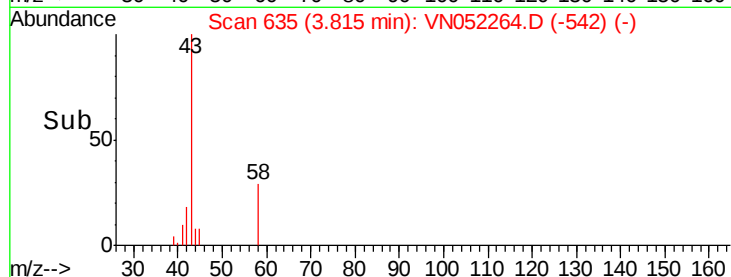
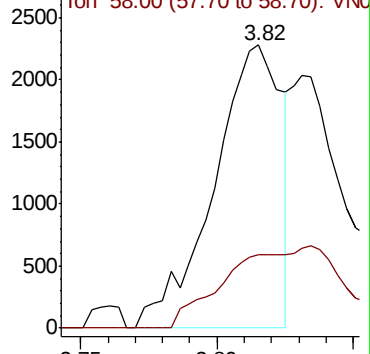
Ion Ratio Lower Upper

43 100

58 26.1 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-600) (-)



#20

Methylene Chloride

Concen: 1.386 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

Tgt Ion: 84 Resp: 5944

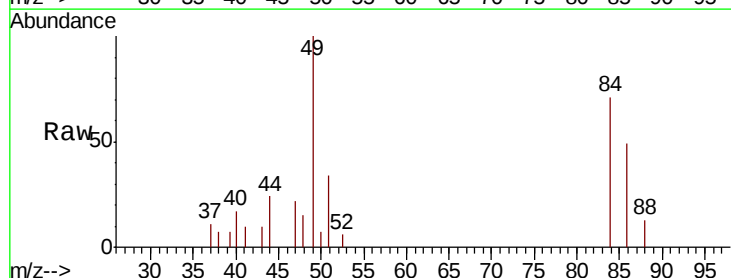
Ion Ratio Lower Upper

84 100

49 140.5 114.8 172.2

51 47.4 33.1 49.7

86 69.4 49.7 74.5

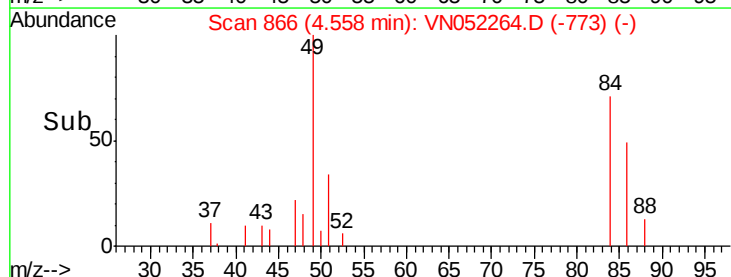
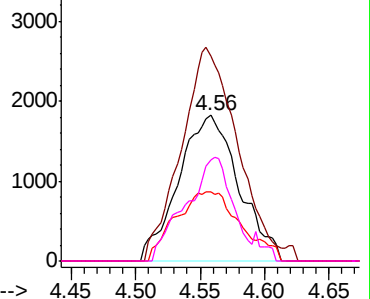


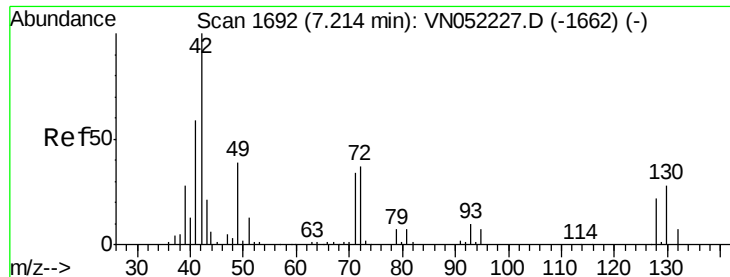
Abundance Ion 83.90 (83.60 to 84.60): VN052227.D (-842) (-)

Ion 48.90 (48.60 to 49.60): VN052227.D (-842) (-)

Ion 50.90 (50.60 to 51.60): VN052227.D (-842) (-)

Ion 85.90 (85.60 to 86.60): VN052227.D (-842) (-)





#29

Tetrahydrofuran

Concen: 0.251 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

Instrument :

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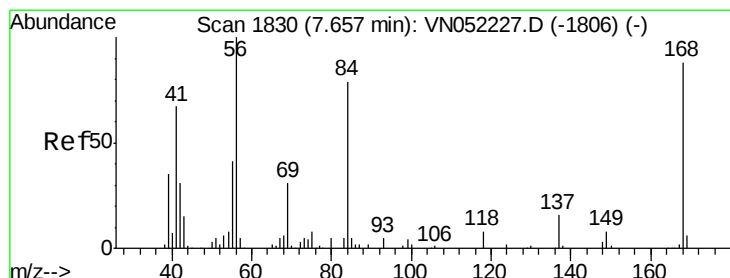
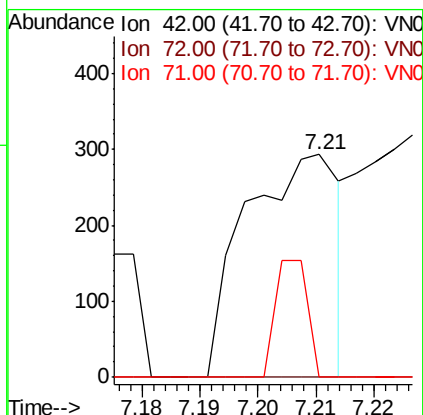
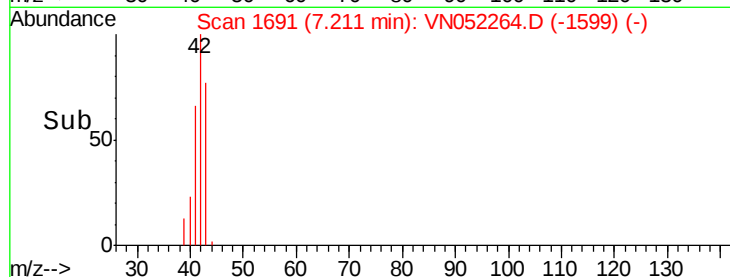
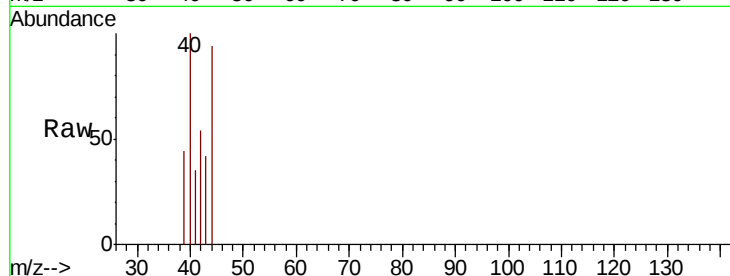
Tot Ion: 42 Resp: 328

Ion Ratio Lower Upper

42 100

72 0.0 28.6 43.0#

71 18.0 27.1 40.7#



#31

Cyclohexane

Concen: 0.642 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

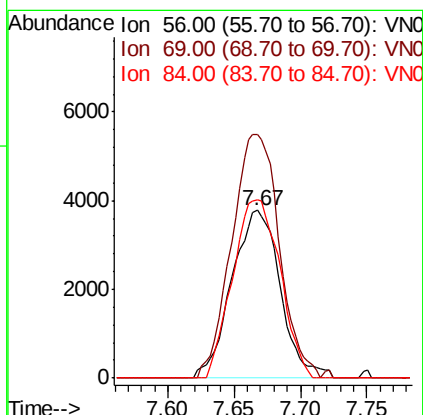
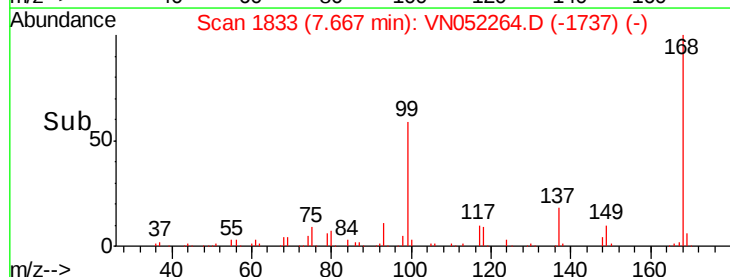
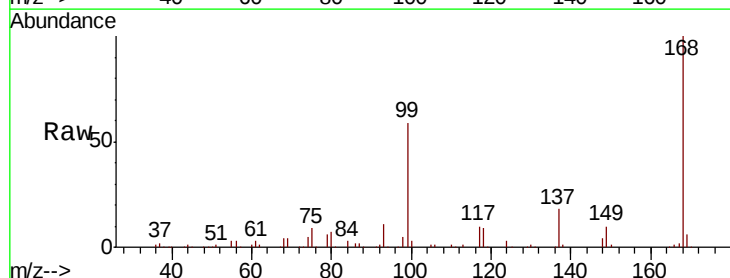
Tgt Ion: 56 Resp: 9619

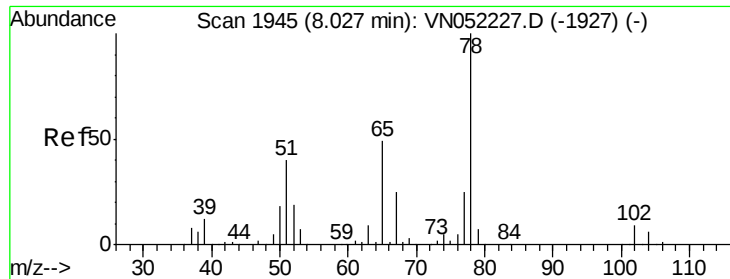
Ion Ratio Lower Upper

56 100

69 145.2 24.8 37.2#

84 106.7 63.1 94.7#

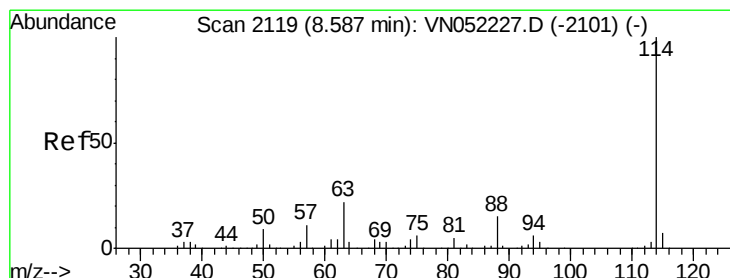
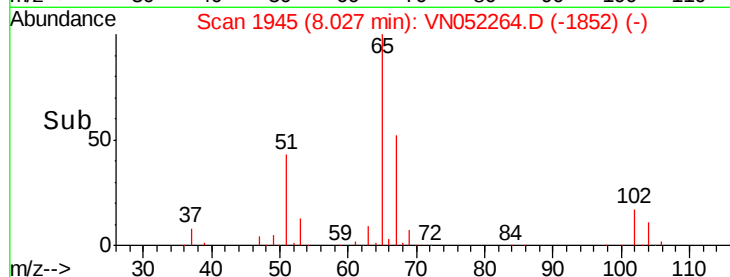
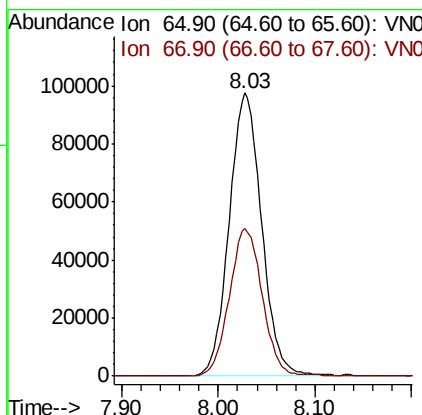
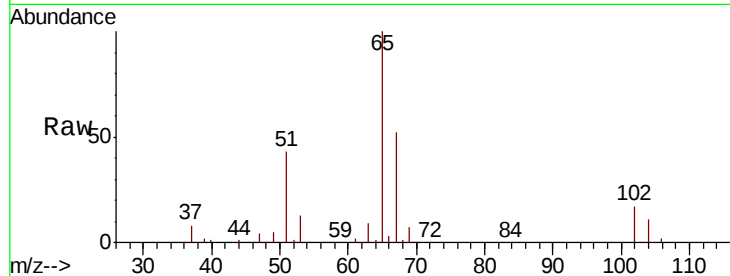




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052264.D
 Acq: 12 Nov 2018 16:05

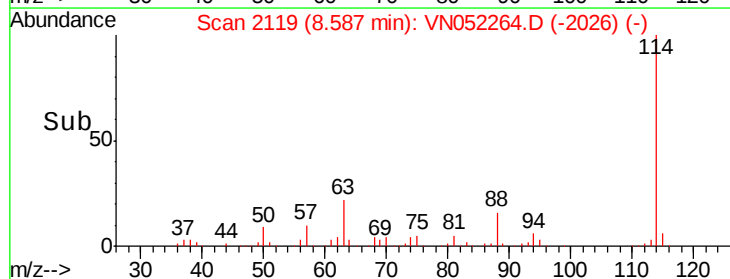
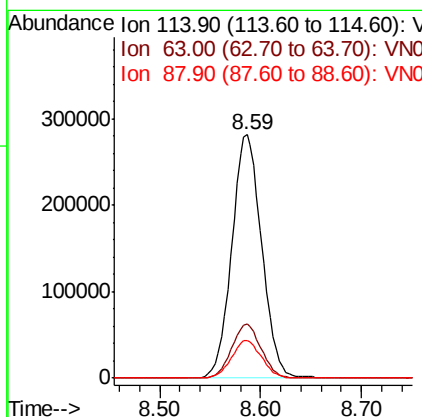
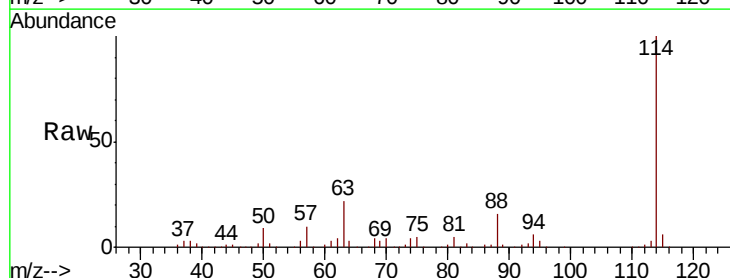
Instrument :
 MSVOA_N
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 PB114678ZHE#08

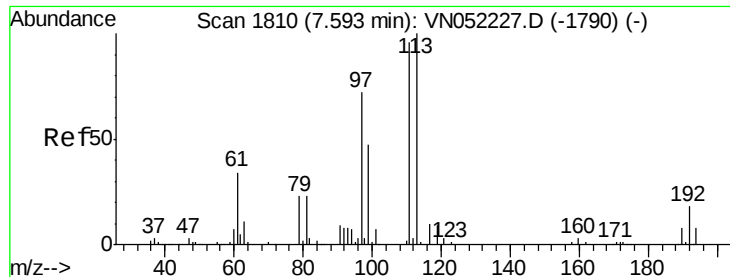
Tot Ion: 65 Resp: 227403
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052264.D
 Acq: 12 Nov 2018 16:05

Tgt Ion: 114 Resp: 578067
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.4
 88 15.6 0.0 30.2

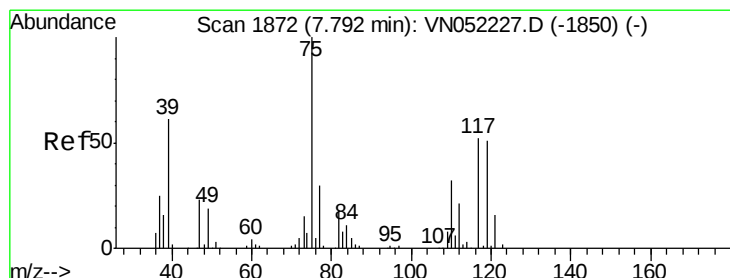
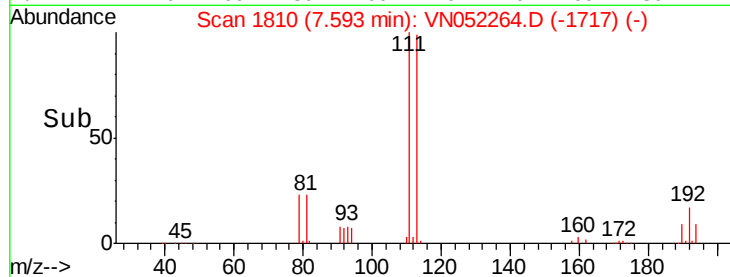
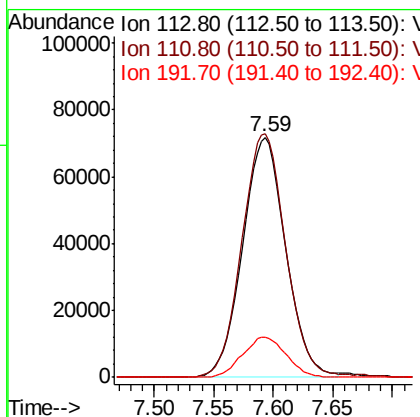
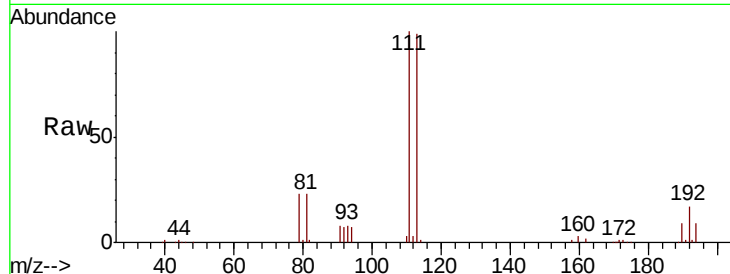




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052264.D
 Acq: 12 Nov 2018 16:05

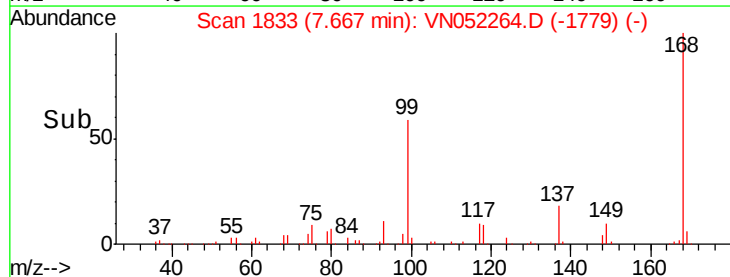
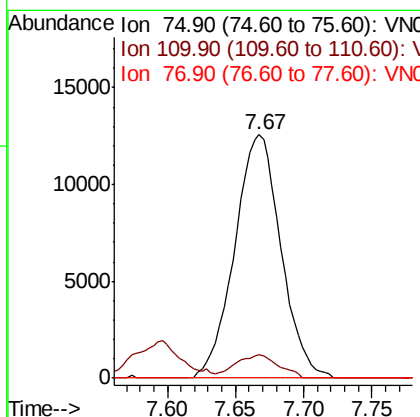
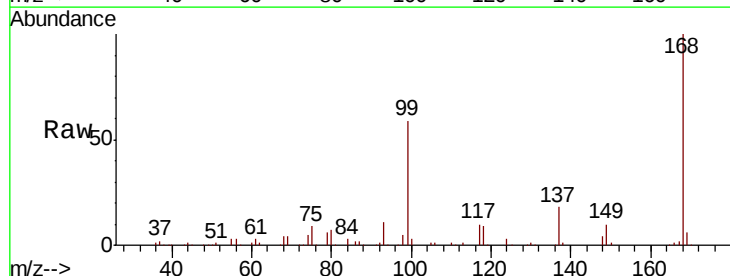
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#08

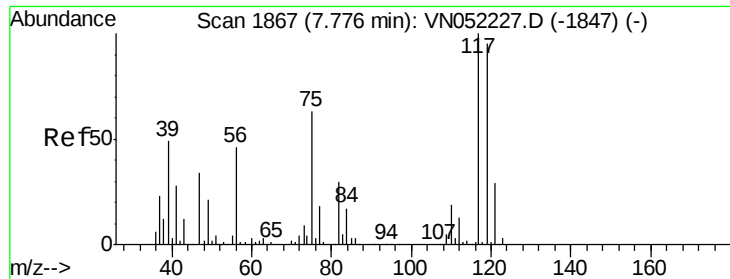
Tot Ion:113 Resp: 179931
 Ion Ratio Lower Upper
 113 100
 111 103.2 80.2 120.4
 192 17.1 14.1 21.1



#36
 1,1-Dichloropropene
 Concen: 5.071 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052264.D
 Acq: 12 Nov 2018 16:05

Tgt Ion: 75 Resp: 29585
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.4 49.4#
 77 0.0 23.9 35.9#





#38

Carbon Tetrachloride

Concen: 6.909 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#08

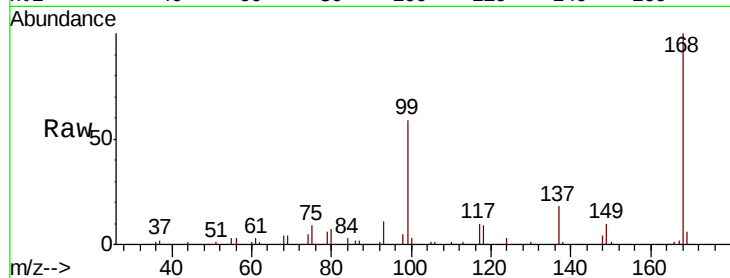
Tot Ion:117 Resp: 36532

Ion Ratio Lower Upper

117 100

119 4.3 75.8 113.8#

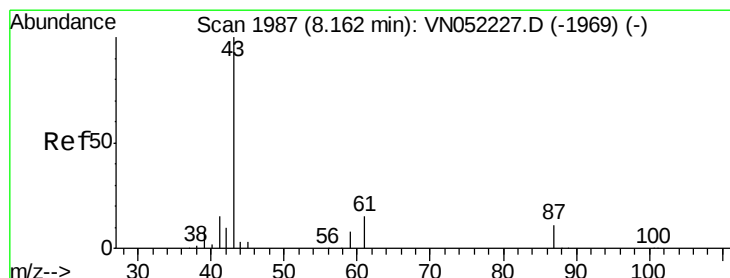
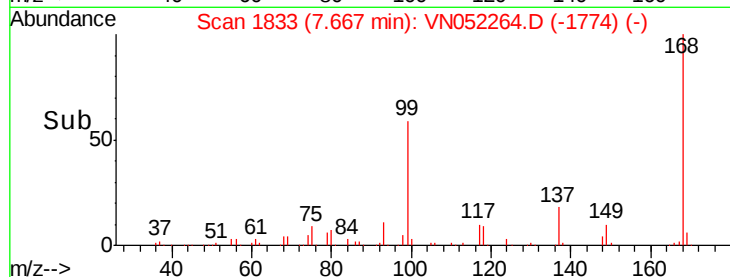
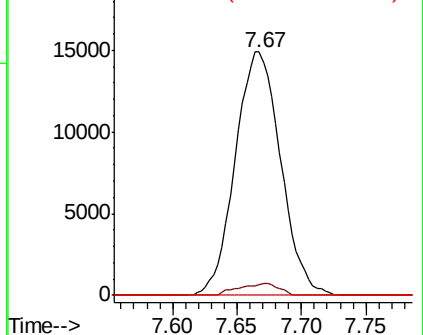
121 0.0 23.4 35.2#



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: 3.049 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

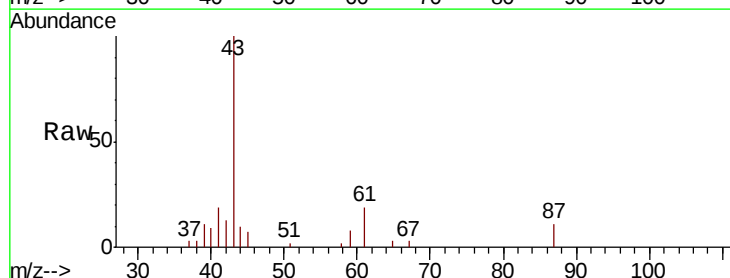
Tgt Ion: 43 Resp: 23322

Ion Ratio Lower Upper

43 100

61 14.4 14.2 21.4

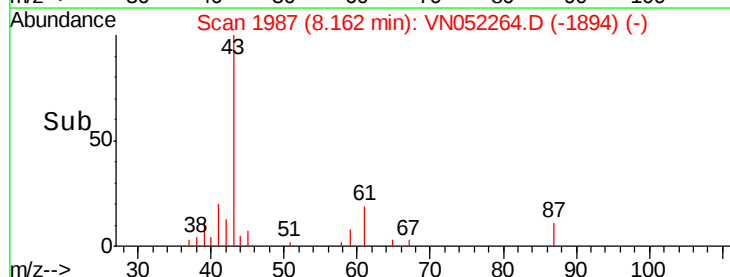
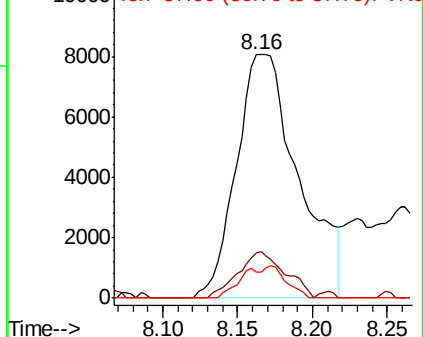
87 3.9 8.4 12.6#

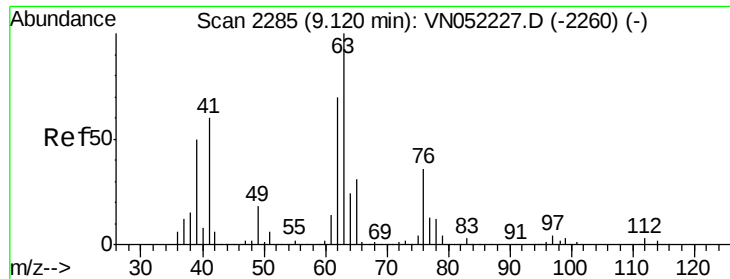


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

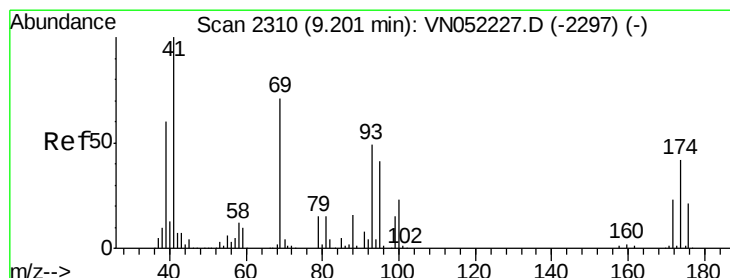
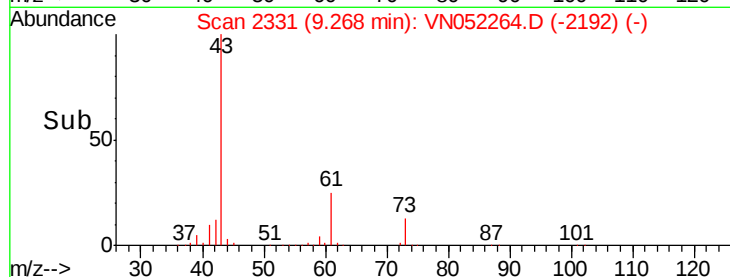
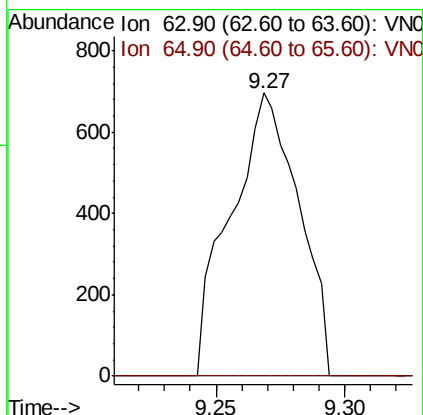
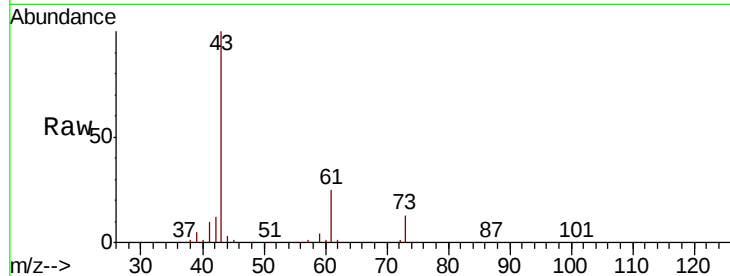




#45
 1,2-Dichloropropane
 Concen: 0.274 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN052264.D
 Acq: 12 Nov 2018 16:05

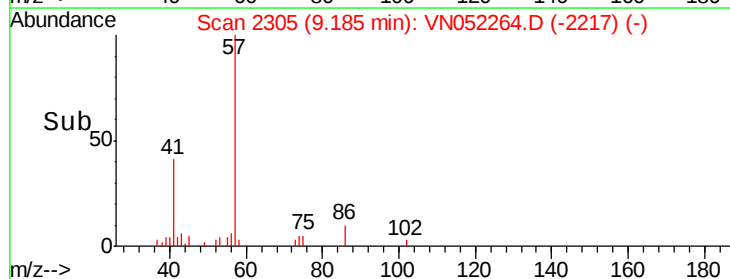
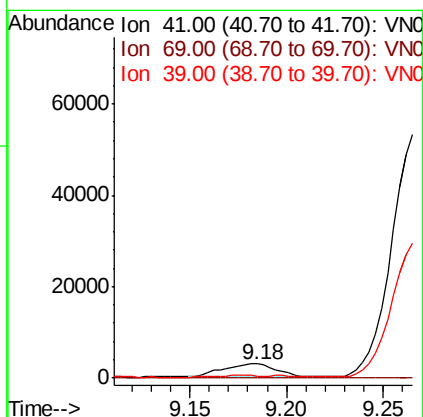
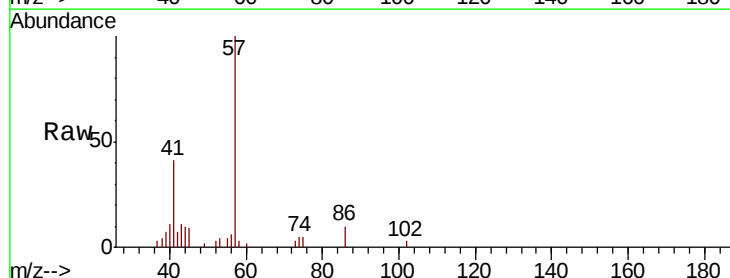
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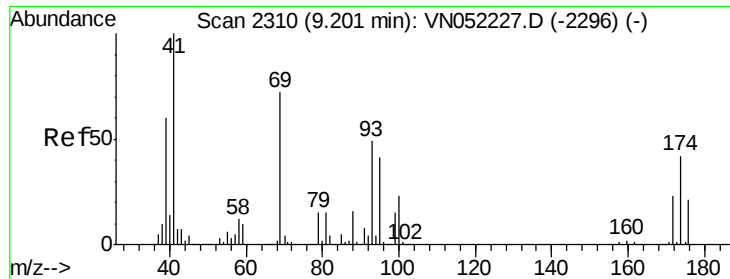
Tot Ion: 63 Resp: 1278
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.336 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN052264.D
 Acq: 12 Nov 2018 16:05

Tgt Ion: 41 Resp: 5385
 Ion Ratio Lower Upper
 41 100
 69 0.0 58.8 88.2#
 39 0.0 50.7 76.1#





#49

1,4-Dioxane

Concen: 2.099 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#08

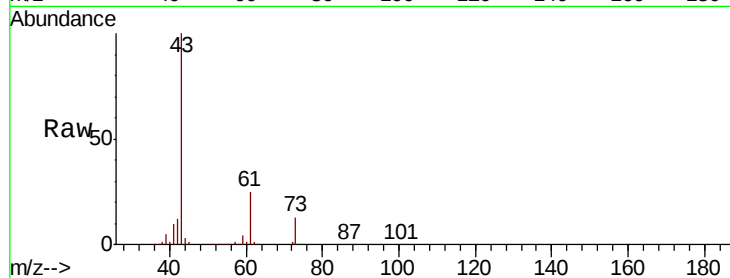
Tot Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 1505705.9 32.5 48.7#

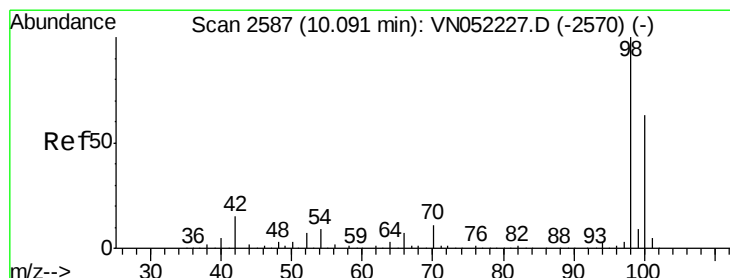
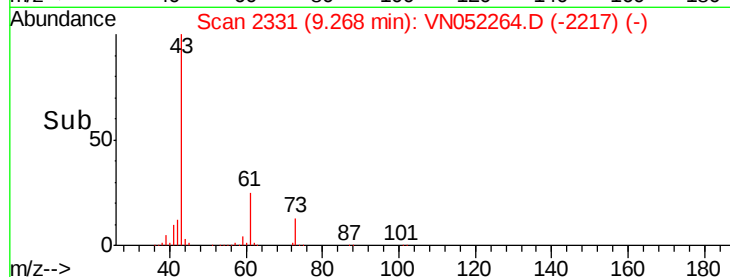
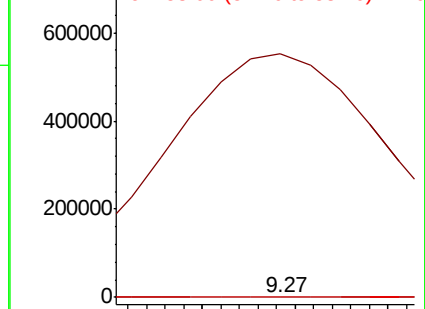
58 6986.8 58.2 87.4#



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: 2.099 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052264.D

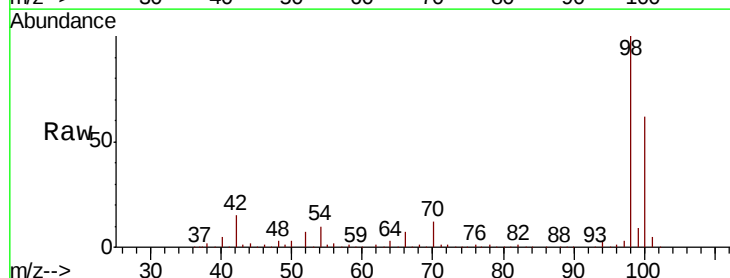
Acq: 12 Nov 2018 16:05

Tgt Ion: 98 Resp: 721143

Ion Ratio Lower Upper

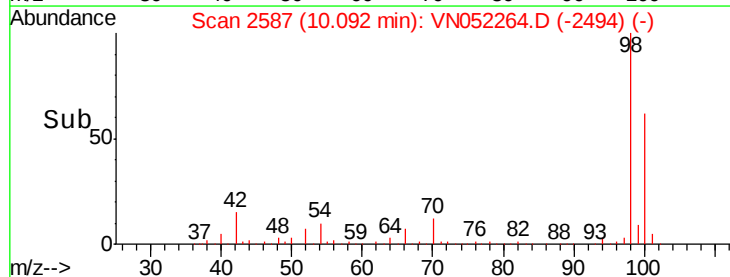
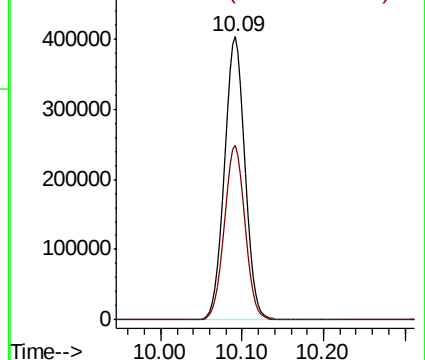
98 100

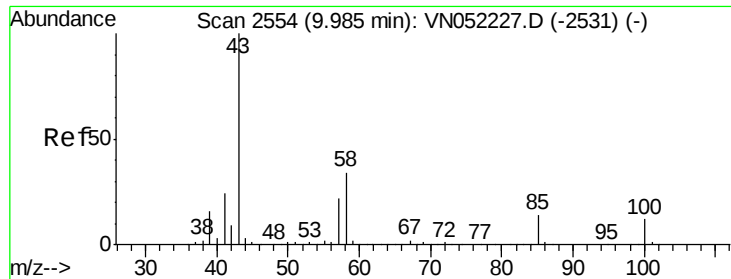
100 62.1 50.2 75.2



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: 1.846 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

Instrument :

MSVOA_N

ClientSampleId :

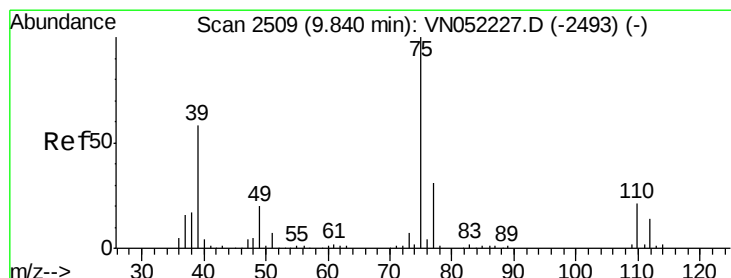
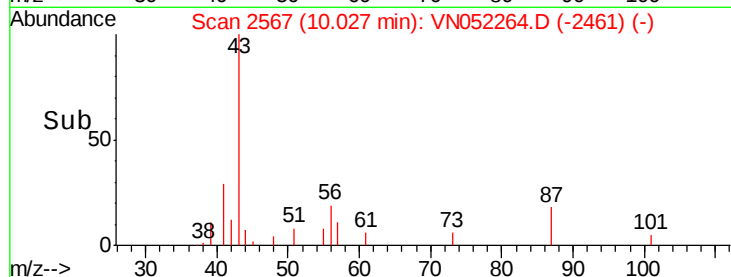
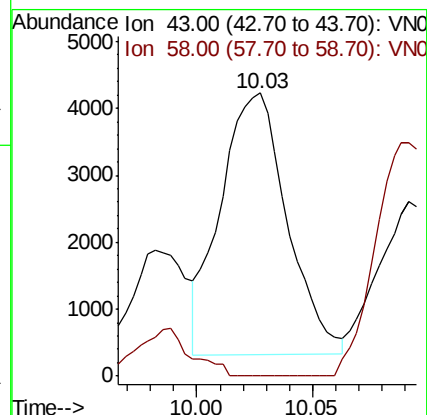
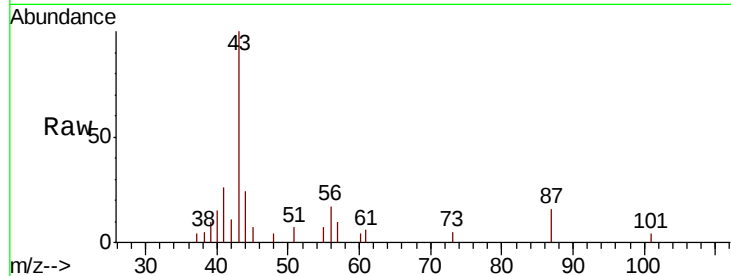
PB114678ZHE#08

Tot Ion: 43 Resp: 7798

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.0#



#54

cis-1,3-Dichloropropene

Concen: 6.094 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

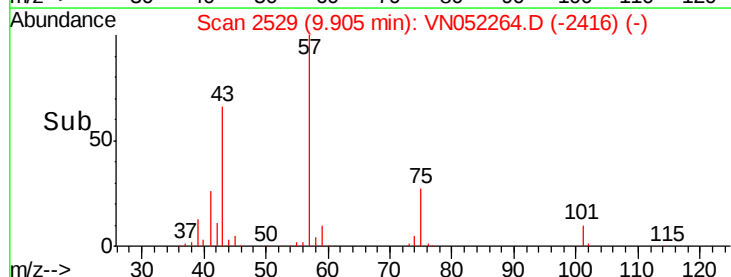
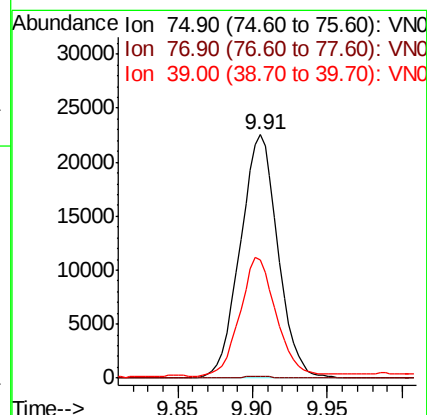
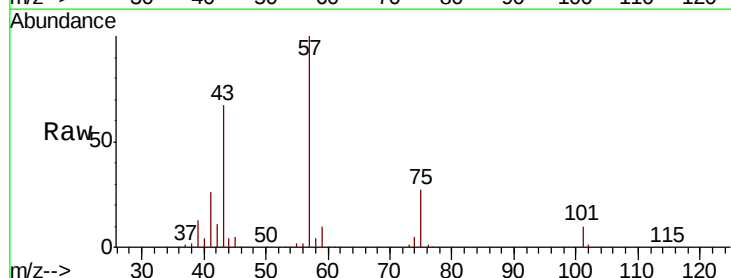
Tgt Ion: 75 Resp: 39428

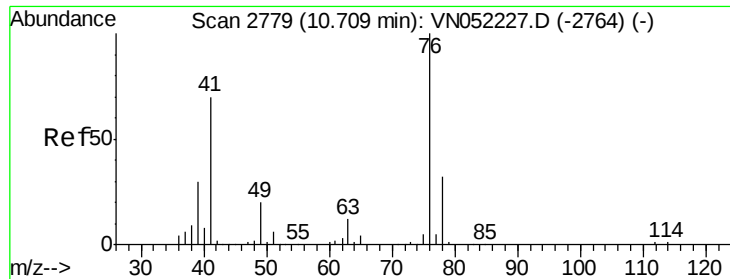
Ion Ratio Lower Upper

75 100

77 0.7 25.2 37.8#

39 47.6 46.6 70.0





#57

1,3-Dichloropropane

Concen: 1.286 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

Instrument :

MSVOA_N

ClientSampleId :

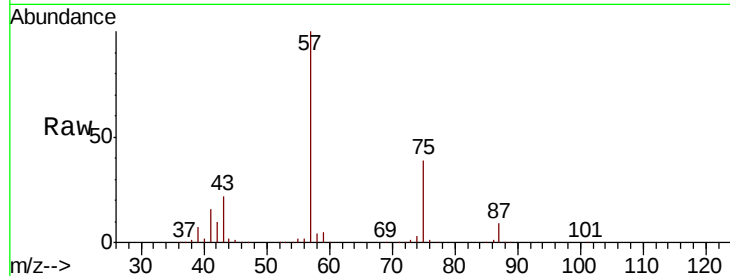
PB114678ZHE#08

Tot Ion: 76 Resp: 8384

Ion Ratio Lower Upper

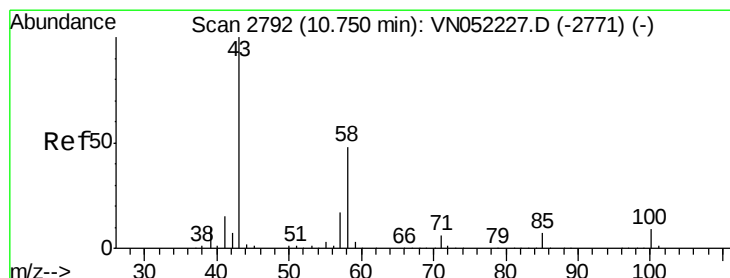
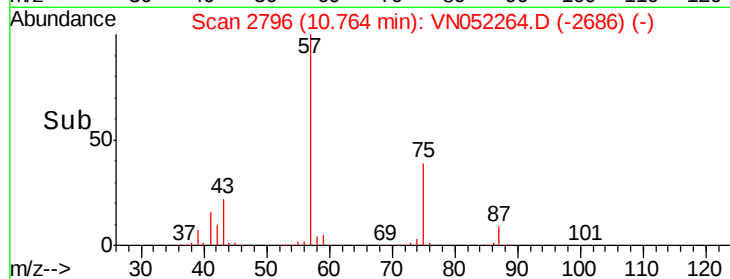
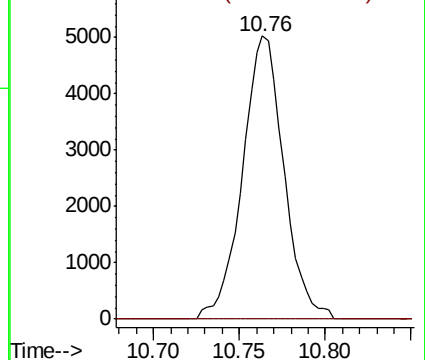
76 100

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: 45.304 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052264.D

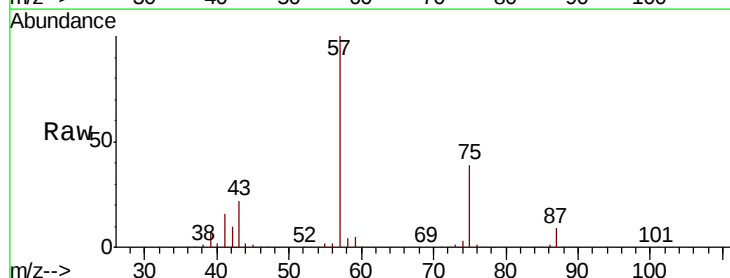
Acq: 12 Nov 2018 16:05

Tgt Ion: 43 Resp: 134349

Ion Ratio Lower Upper

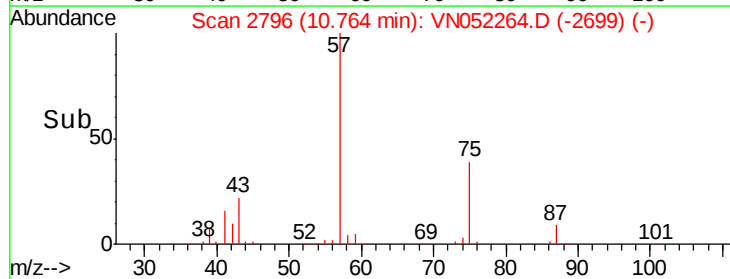
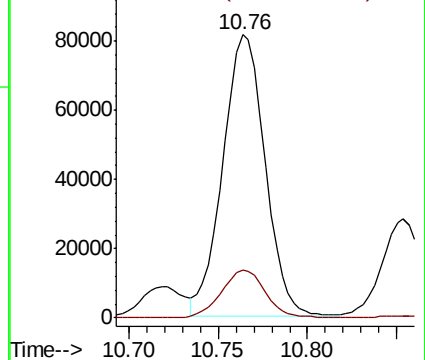
43 100

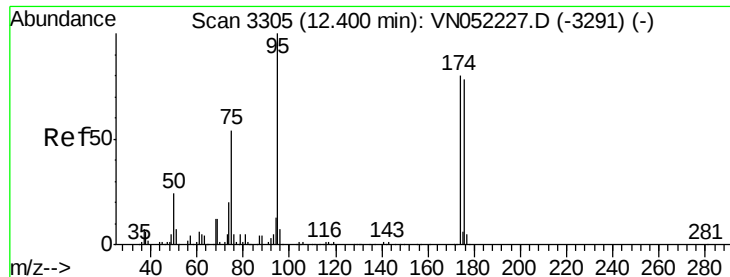
58 17.7 24.1 72.3#



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: VN052264.D

Acq: 12 Nov 2018 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#08

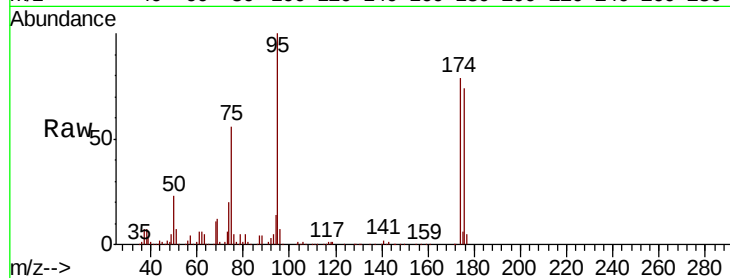
Tot Ion: 95 Resp: 201365

Ion Ratio Lower Upper

95 100

174 79.5 0.0 159.4

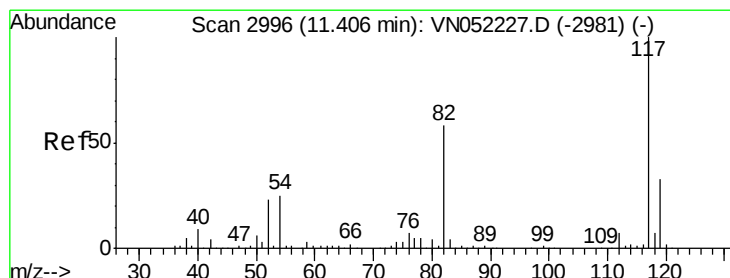
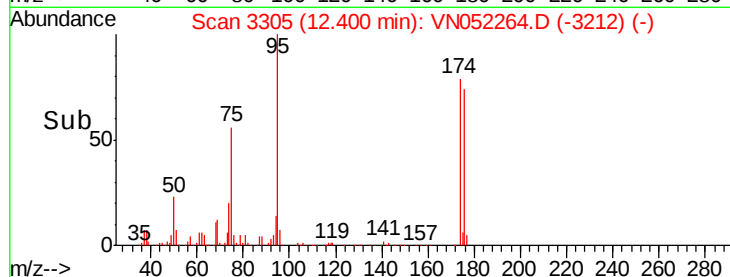
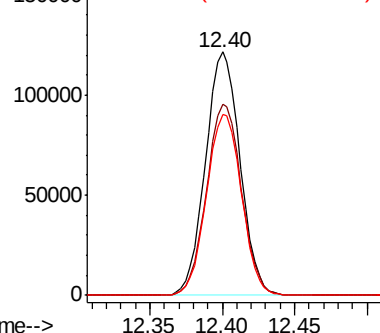
176 75.5 0.0 157.8



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: VN052264.D

Acq: 12 Nov 2018 16:05

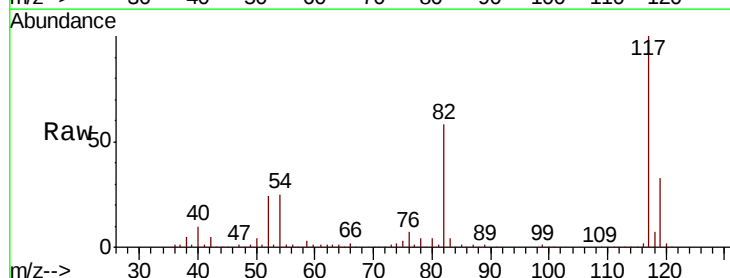
Tgt Ion: 117 Resp: 478029

Ion Ratio Lower Upper

117 100

82 58.4 46.2 69.2

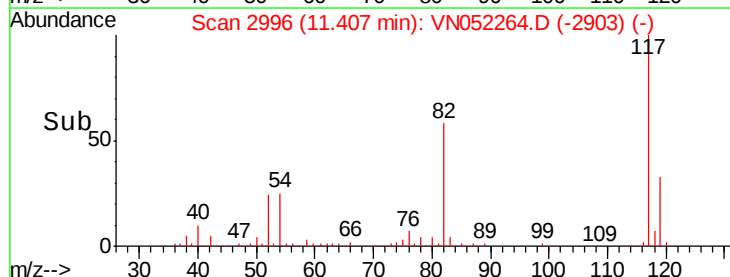
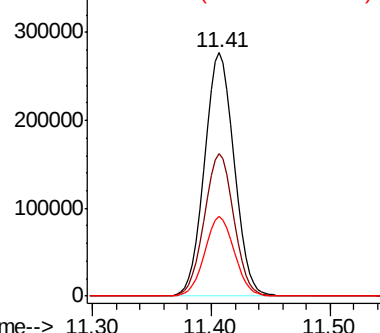
119 32.7 26.2 39.4

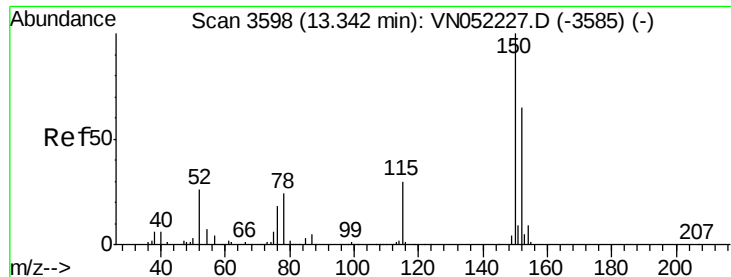


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052264.D

Acq: 12 Nov 2018 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#08

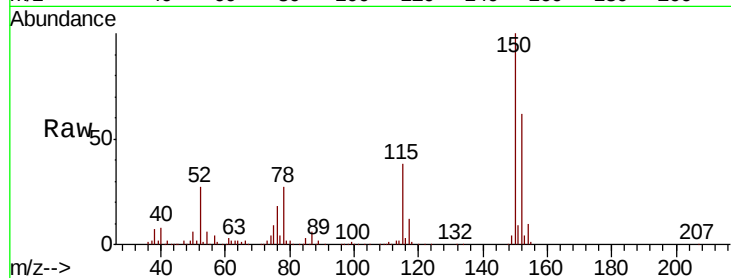
Tot Ion:152 Resp: 164059

Ion Ratio Lower Upper

152 100

115 60.9 29.8 89.5

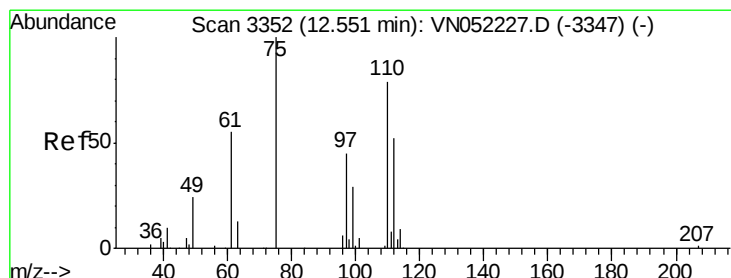
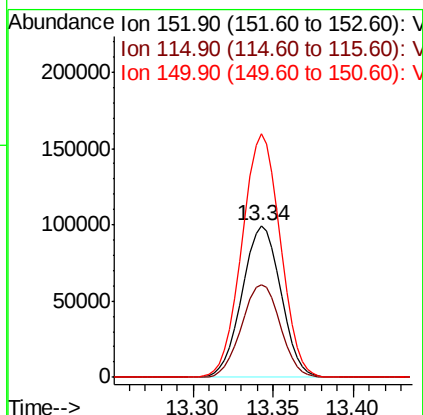
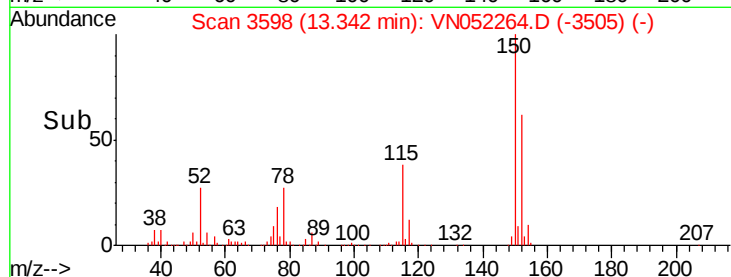
150 158.6 0.0 350.2



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: 38.880 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052264.D

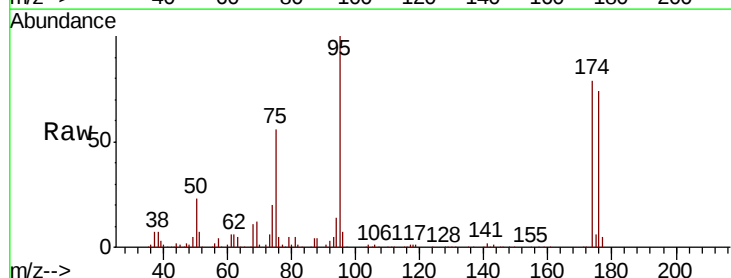
Acq: 12 Nov 2018 16:05

Tgt Ion: 75 Resp: 112855

Ion Ratio Lower Upper

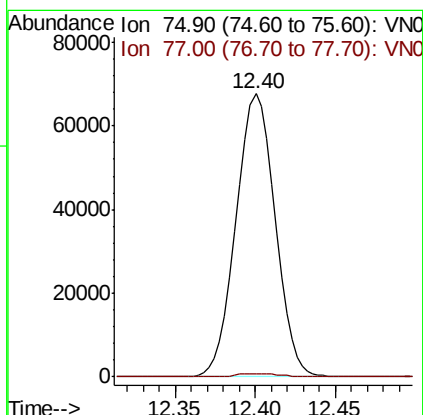
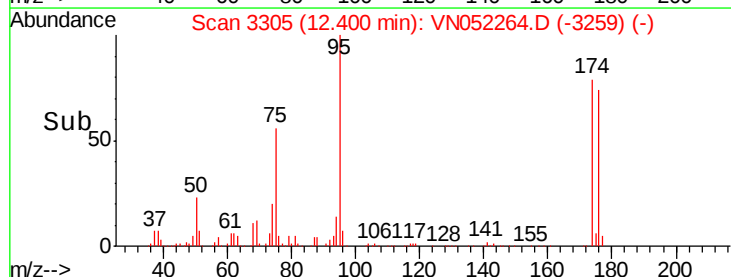
75 100

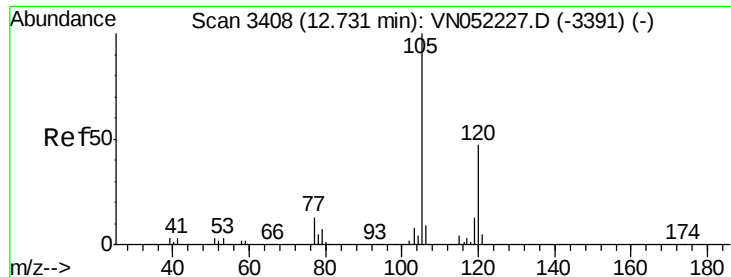
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

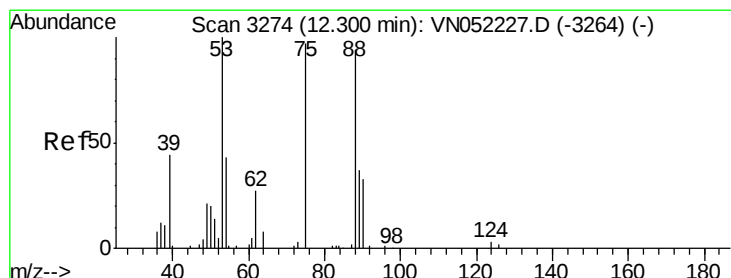
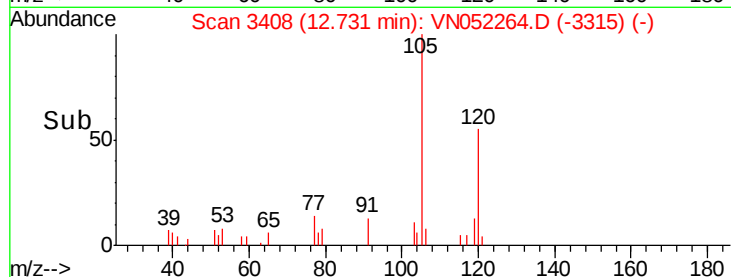
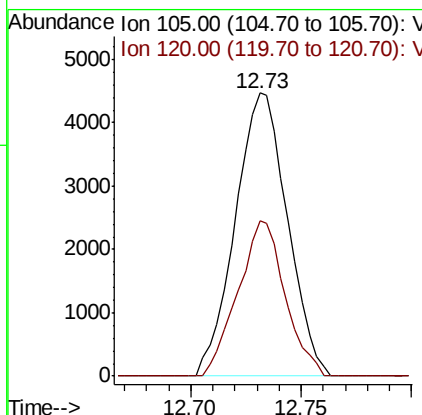
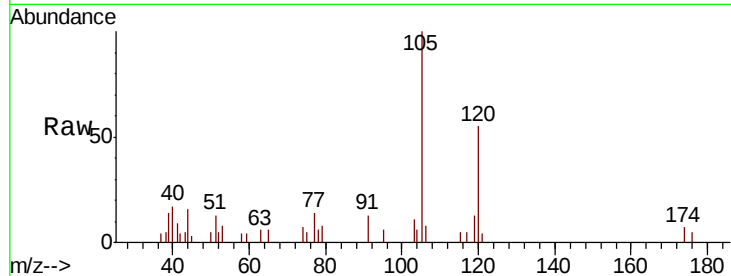




#80
 1,3,5-Trimethylbenzene
 Concen: 0.687 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN052264.D
 Acq: 12 Nov 2018 16:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#08

Tot Ion:105 Resp: 7332
 Ion Ratio Lower Upper
 105 100
 120 49.8 23.9 71.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 132.716 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052264.D
 Acq: 12 Nov 2018 16:05

Tgt Ion: 75 Resp: 112855
 Ion Ratio Lower Upper
 75 100
 53 0.1 84.0 126.0#
 89 0.0 33.7 50.5#

