

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102518\
 Data File : VN052005.D
 Acq On : 25 Oct 2018 12:14
 Operator : MD\SY
 Sample : PB114157ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114157ZHE#02

Quant Time: Oct 26 01:10:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1151945	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1671854	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1613312	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	752608	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	599659	58.45	ug/l	0.00
Spiked Amount			Recovery	=	116.90%	
35) Dibromofluoromethane	7.59	113	621221	58.23	ug/l	0.00
Spiked Amount			Recovery	=	116.46%	
50) Toluene-d8	10.09	98	2304328	59.77	ug/l	0.00
Spiked Amount			Recovery	=	119.54%	
62) 4-Bromofluorobenzene	12.40	95	748627	56.50	ug/l	0.00
Spiked Amount			Recovery	=	113.00%	

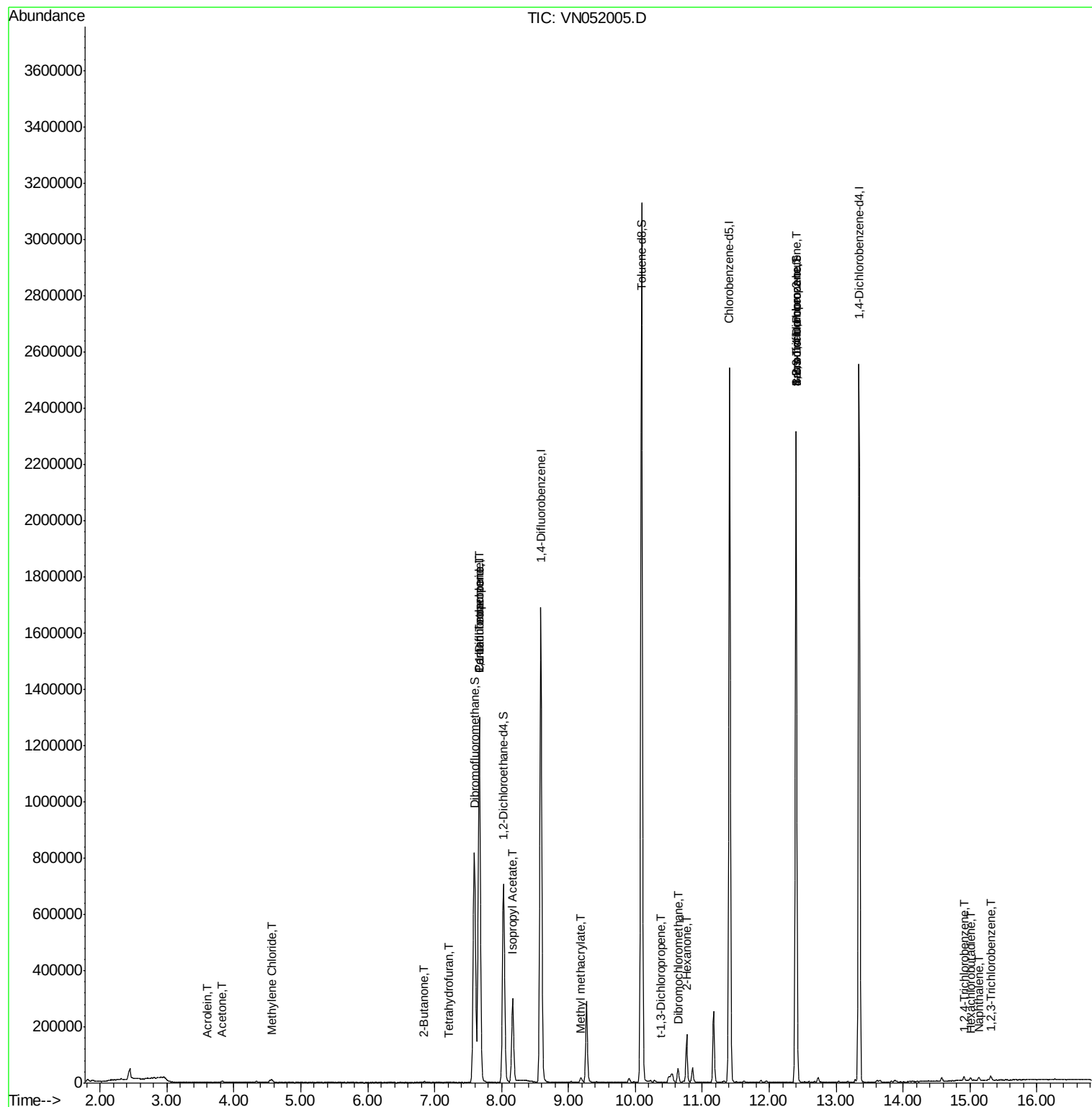
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	240	37.941	ug/l #	58
16) Acetone	3.82	43	9025	5.339	ug/l	90
18) Methyl Acetate	4.32	43	3151	Below Cal	#	54
20) Methylene Chloride	4.56	84	4597	0.464	ug/l #	85
25) 2-Butanone	6.84	43	2412	1.001	ug/l #	81
29) Tetrahydrofuran	7.23	42	1125	0.689	ug/l #	60
31) Cyclohexane	7.67	56	17819	Below Cal	#	28
36) 1,1-Dichloropropene	7.67	75	67436	5.258	ug/l #	47
37) Ethyl Acetate	6.93	43	233	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	97960	6.654	ug/l #	16
43) Isopropyl Acetate	8.17	43	330407	30.763	ug/l	99
48) Methyl methacrylate	9.18	41	8254	1.590	ug/l #	15
53) t-1,3-Dichloropropene	10.38	75	170	1.256	ug/l #	3
59) 2-Hexanone	10.76	43	22504	5.669	ug/l #	52
60) Dibromochloromethane	10.63	129	354	2.006	ug/l #	11
71) Bromoform	12.40	173	6151	4.350	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	358111	46.065	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	358111	144.940	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	5074	0.365	ug/l	92
94) Hexachlorobutadiene	15.01	225	1854	0.260	ug/l	89
95) Naphthalene	15.13	128	8979	0.298	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.31	180	4678	0.353	ug/l	90

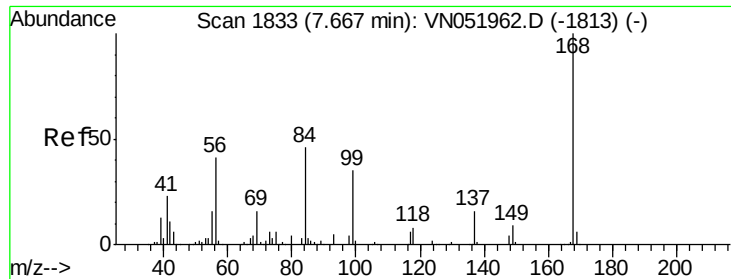
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 24 10:12:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

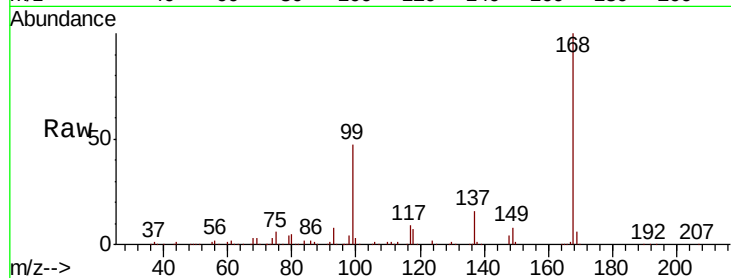
PB114157ZHE#02

Tot Ion:168 Resp: 1151945

Ion Ratio Lower Upper

168 100

99 47.5 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051962.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051962.D (-1813) (-)

7.67

500000

400000

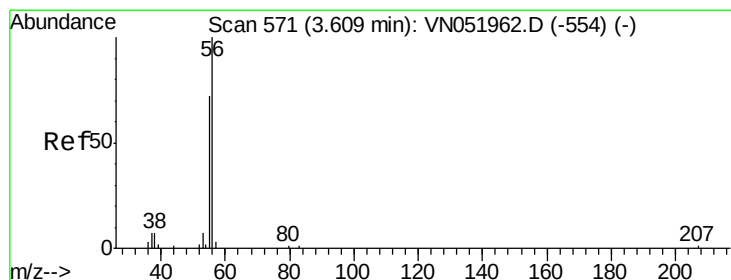
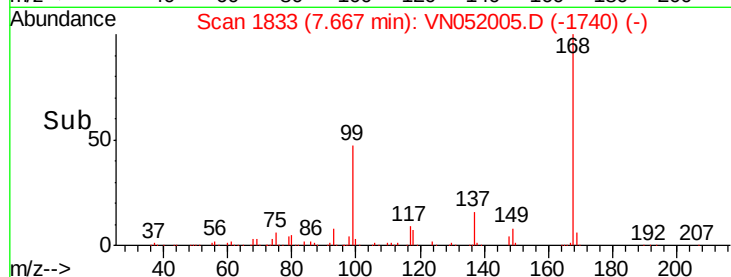
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 37.941 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN052005.D

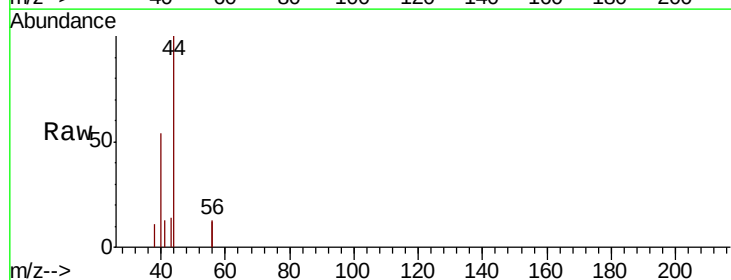
Acq: 25 Oct 2018 12:14

Tgt Ion: 56 Resp: 240

Ion Ratio Lower Upper

56 100

55 36.3 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN051962.D (-554) (-)

Ion 55.00 (54.70 to 55.70): VN051962.D (-554) (-)

3.60

400

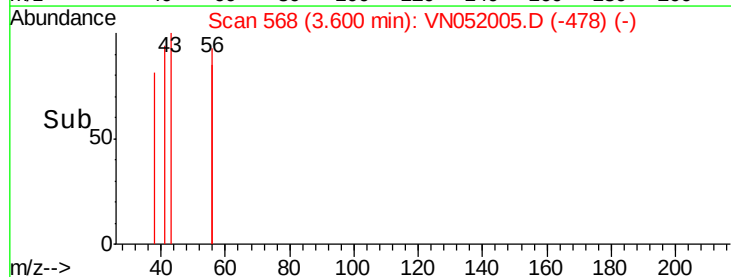
300

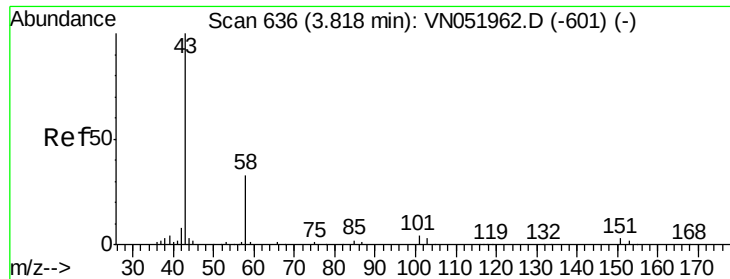
200

100

0

Time-->





#16

Acetone

Concen: 5.339 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

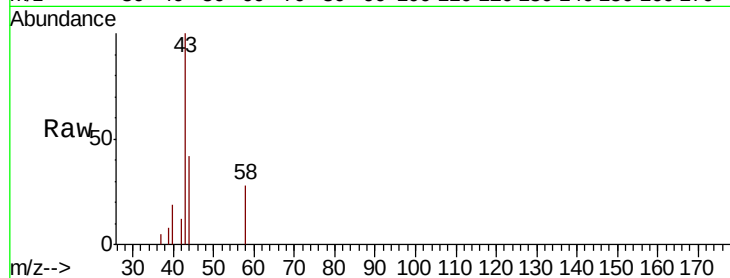
PB114157ZHE#02

Tot Ion: 43 Resp: 9025

Ion Ratio Lower Upper

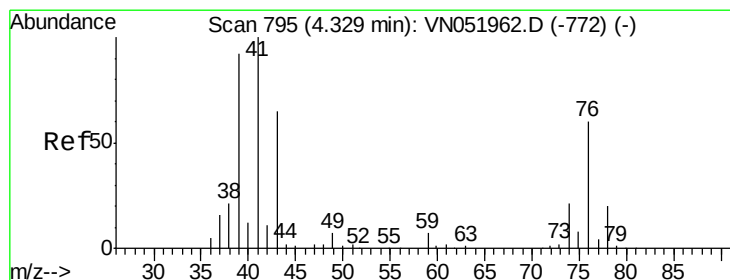
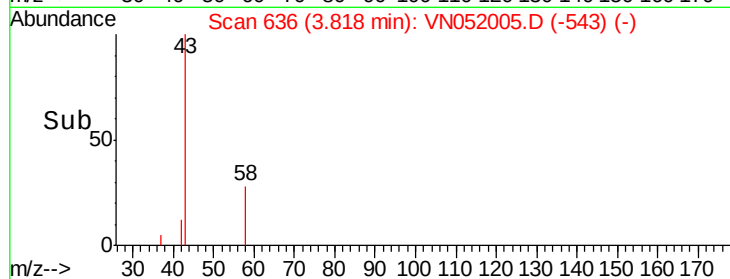
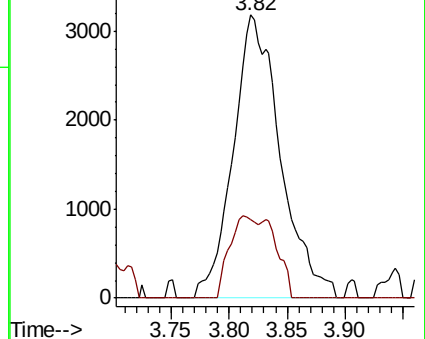
43 100

58 27.8 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN051962.D (-601) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 792

Delta R.T. -0.01 min

Lab File: VN052005.D

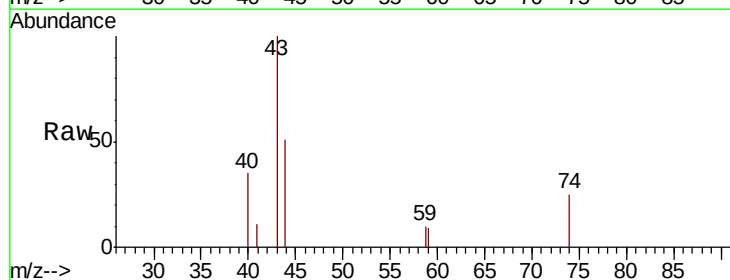
Acq: 25 Oct 2018 12:14

Tgt Ion: 43 Resp: 3151

Ion Ratio Lower Upper

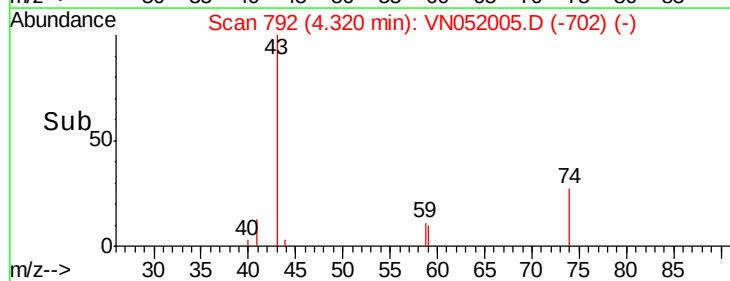
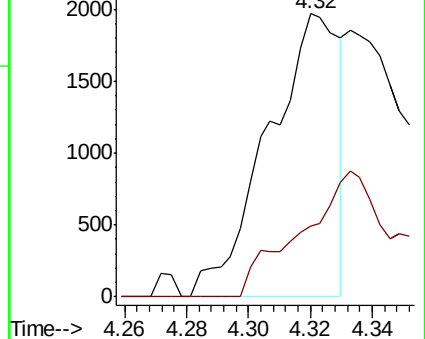
43 100

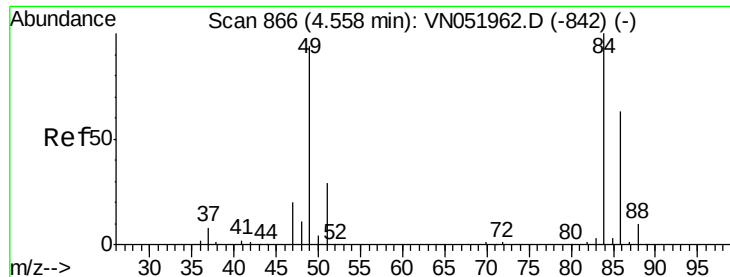
74 57.9 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-772) (-)

Ion 74.00 (73.70 to 74.70): VN051962.D (-772) (-)





#20

Methvlene Chloride

Concen: 0.464 ug/l

RT: 4.56 min Scan# 868

Delta R.T. 0.01 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

PB114157ZHE#02

Tot Ion: 84 Resp: 4597

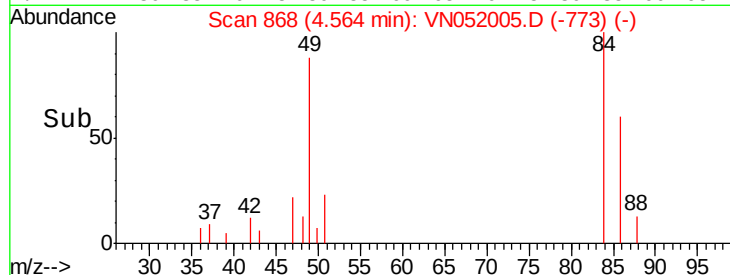
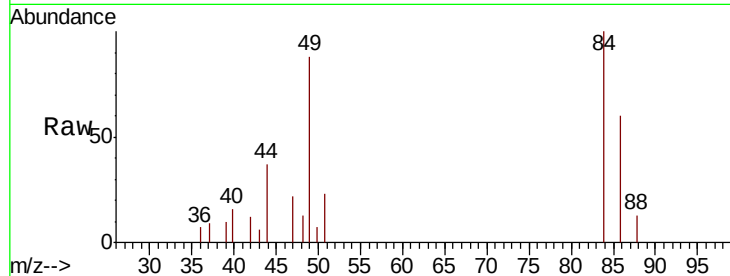
Ion Ratio Lower Upper

84 100

49 81.8 75.4 113.0

51 17.3 23.1 34.7#

86 51.0 50.2 75.4

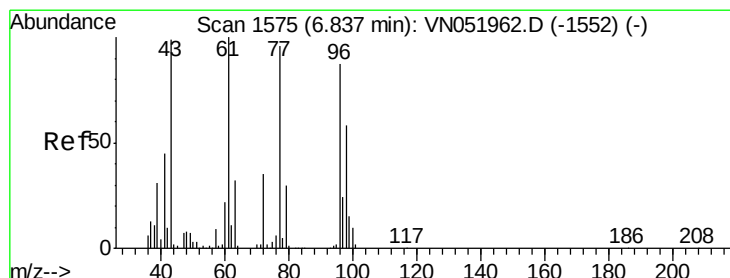
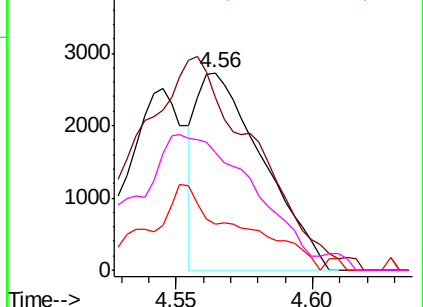


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 1.001 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052005.D

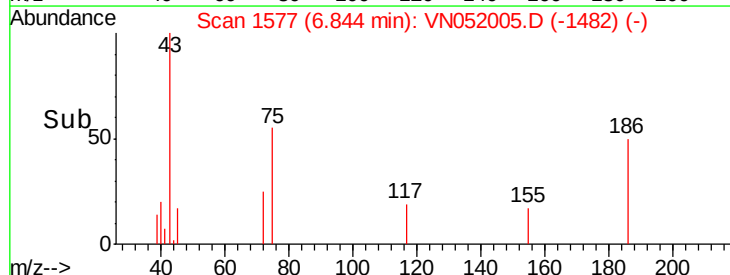
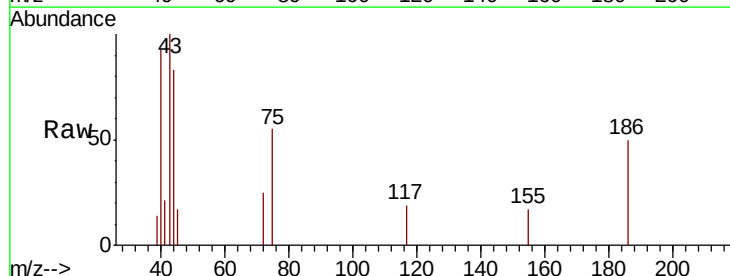
Acq: 25 Oct 2018 12:14

Tgt Ion: 43 Resp: 2412

Ion Ratio Lower Upper

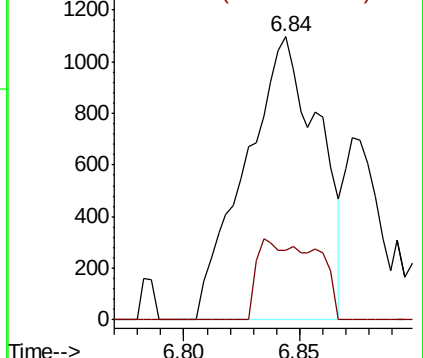
43 100

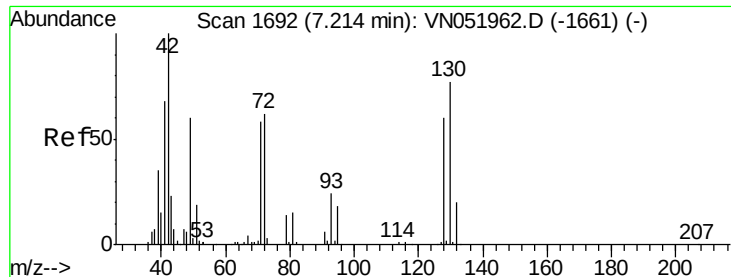
72 24.6 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.689 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

PB114157ZHE#02

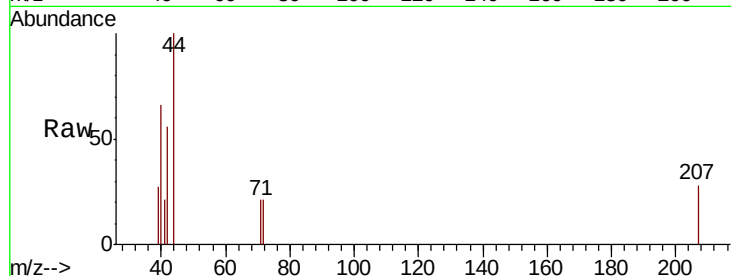
Tot Ion: 42 Resp: 1125

Ion Ratio Lower Upper

42 100

72 22.5 47.5 71.3#

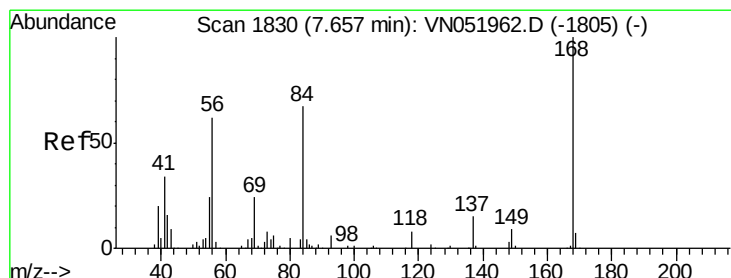
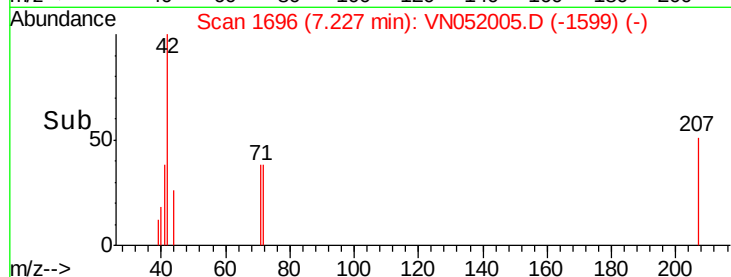
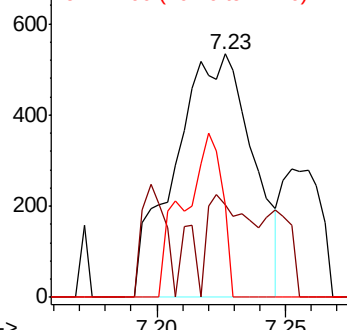
71 33.8 45.4 68.2#



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



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

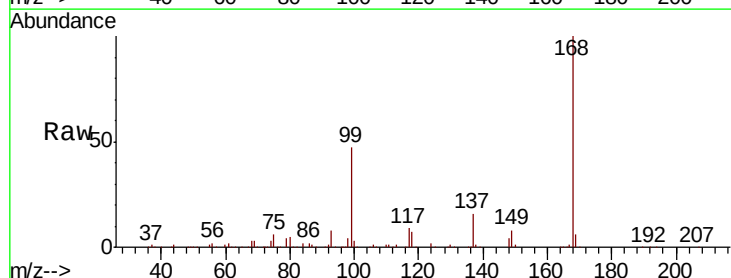
Tgt Ion: 56 Resp: 17819

Ion Ratio Lower Upper

56 100

69 159.3 31.2 46.8#

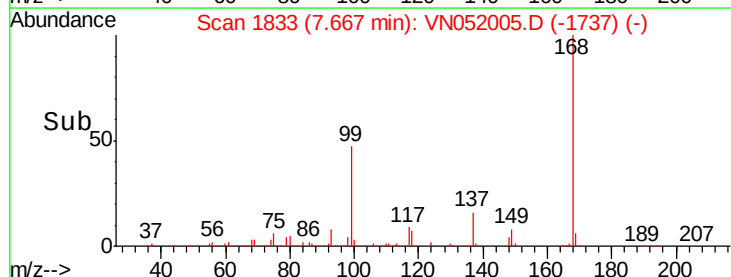
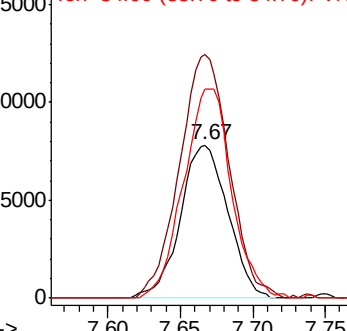
84 136.4 86.3 129.5#

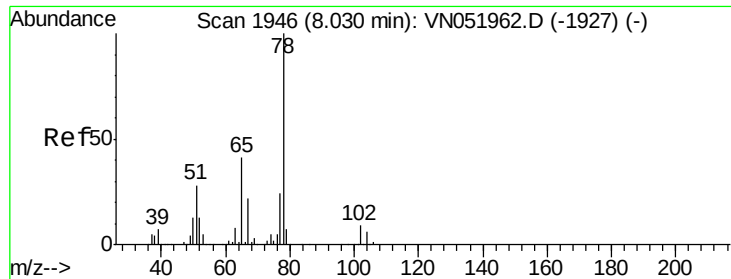


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

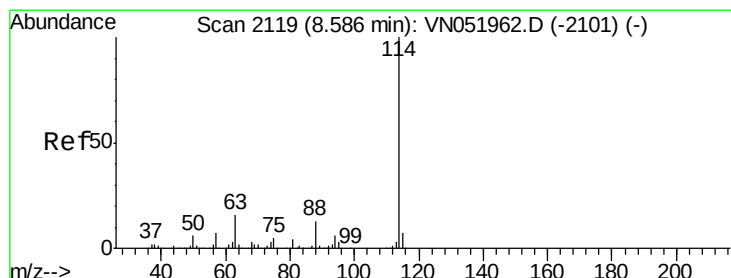
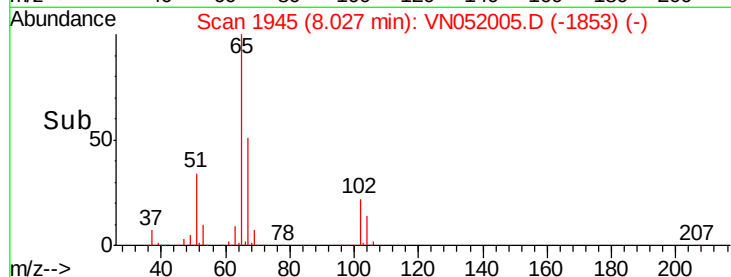
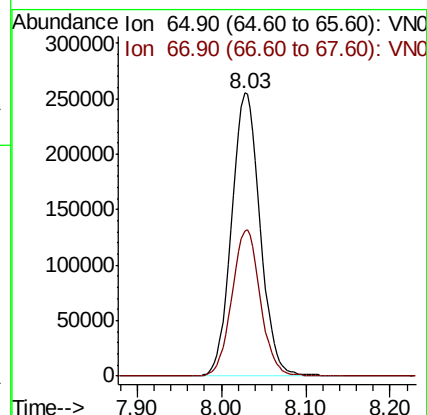
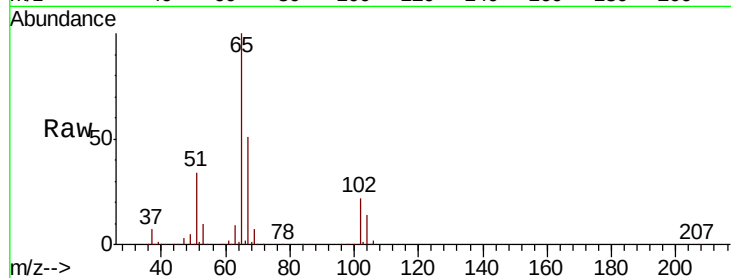




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052005.D
 Acq: 25 Oct 2018 12:14

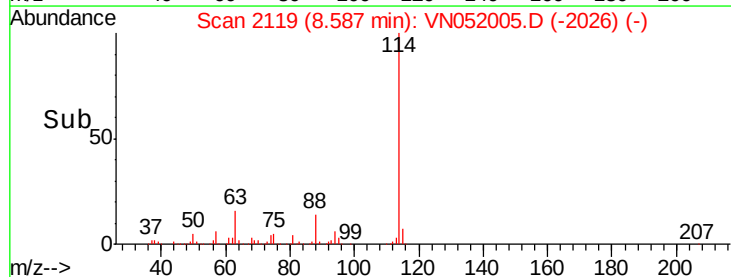
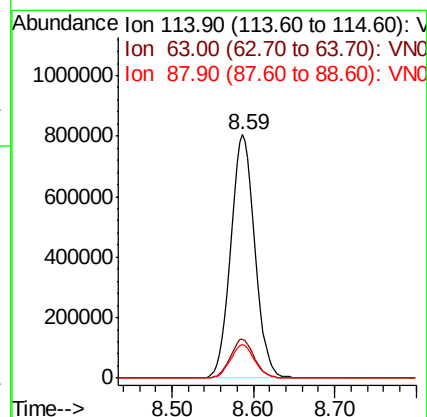
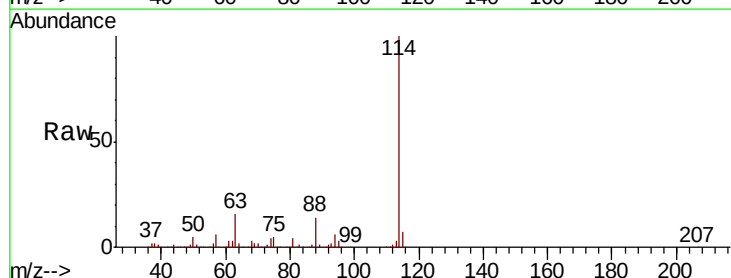
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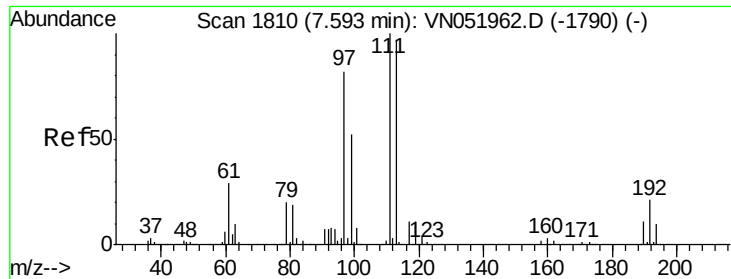
Tot Ion: 65 Resp: 599659
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052005.D
 Acq: 25 Oct 2018 12:14

Tgt Ion: 114 Resp: 1671854
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 31.2
 88 13.8 0.0 27.0

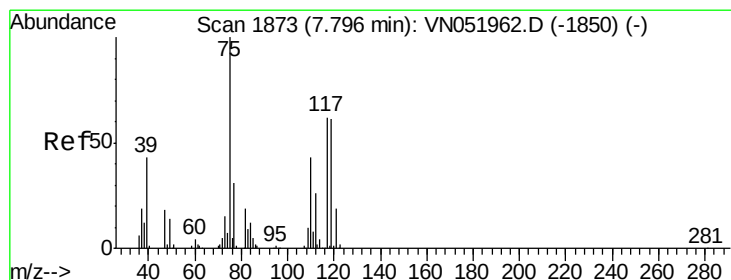
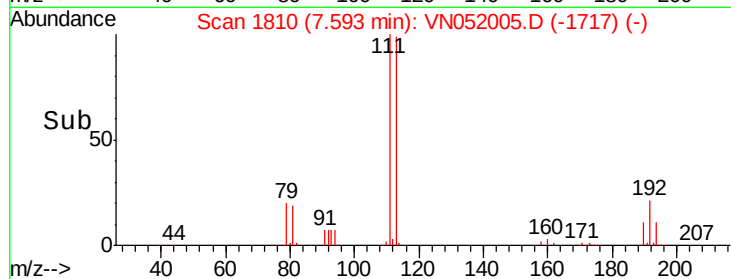
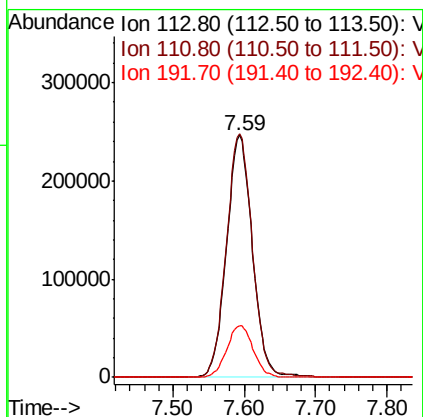
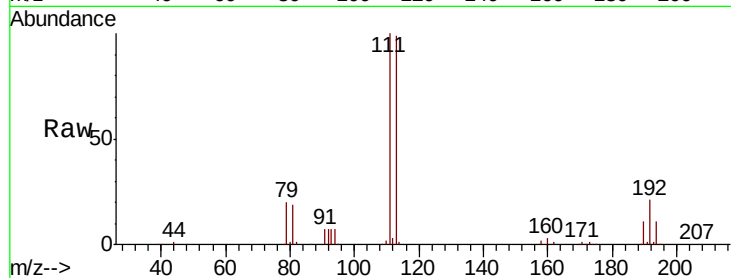




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052005.D
 Acq: 25 Oct 2018 12:14

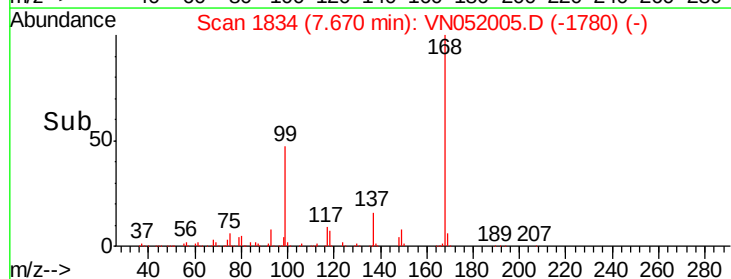
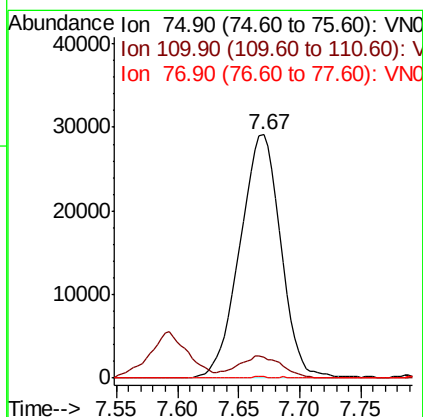
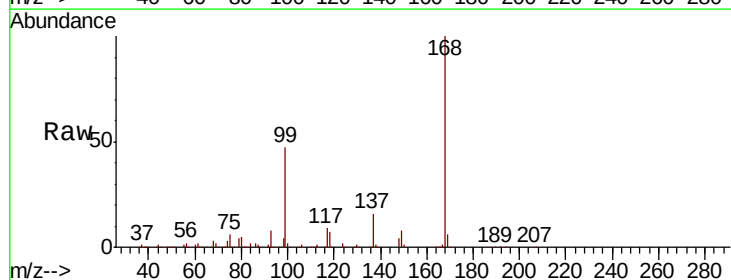
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114157ZHE#02

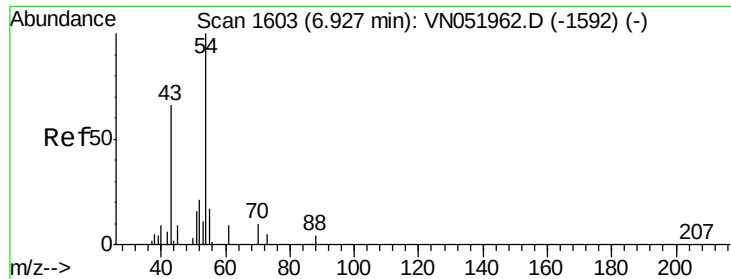
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	80.7	121.1
192	21.8	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 5.258 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN052005.D
 Acq: 25 Oct 2018 12:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	20.9	62.8#
77	0.2	24.9	37.3#

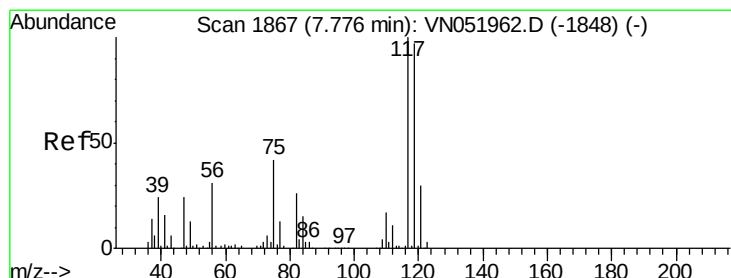
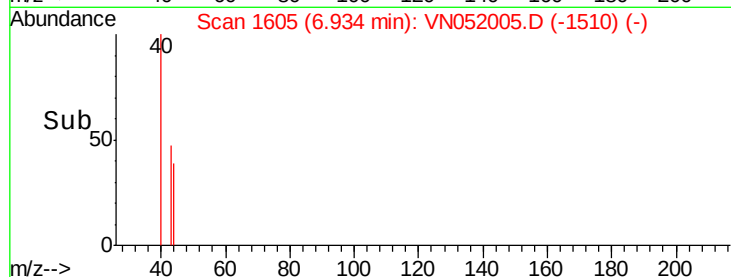
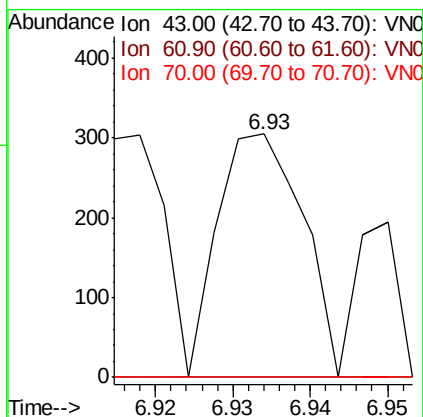
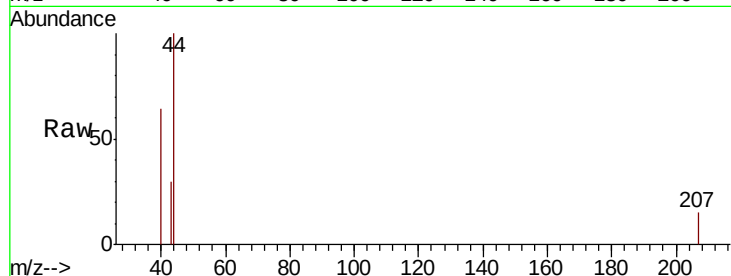




#37
Ethyl Acetate
Concen: Below Cal
RT: 6.93 min Scan# 1605
Delta R.T. 0.01 min
Lab File: VN052005.D
Acq: 25 Oct 2018 12:14

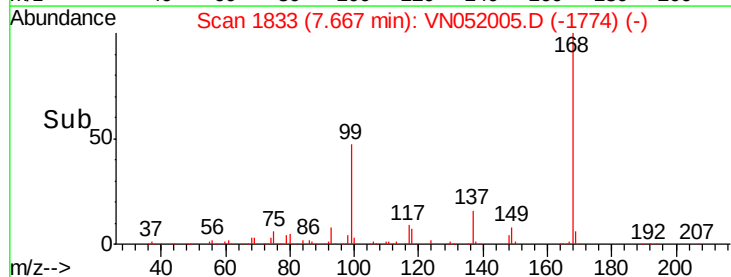
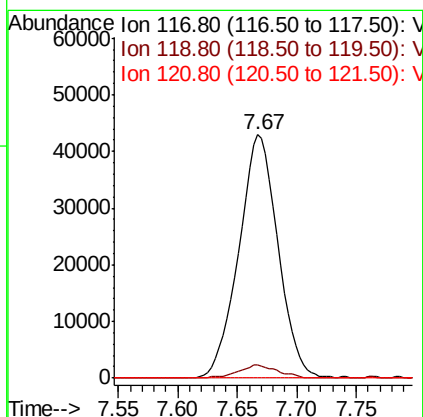
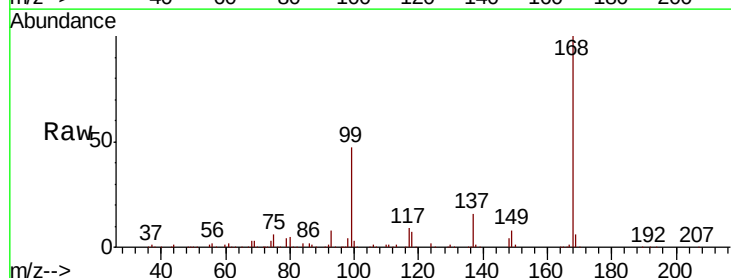
Instrument :
MSVOA_N
ClientSampleId :
PB114157ZHE#02

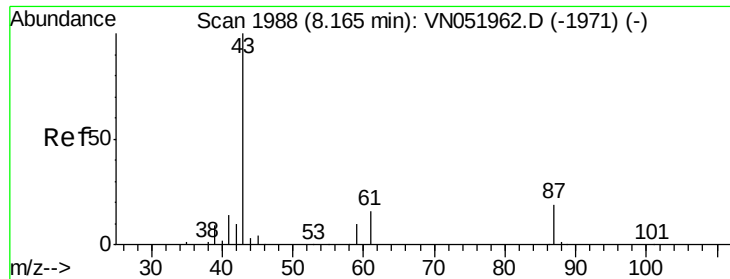
Tot Ion: 43 Resp: 233
Ion Ratio Lower Upper
43 100
61 0.0 13.5 20.3#
70 0.0 9.8 14.6#



#38
Carbon Tetrachloride
Concen: 6.654 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN052005.D
Acq: 25 Oct 2018 12:14

Tgt Ion: 117 Resp: 97960
Ion Ratio Lower Upper
117 100
119 5.5 77.4 116.0#
121 0.0 24.2 36.4#





#43

Isopropyl Acetate

Concen: 30.763 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

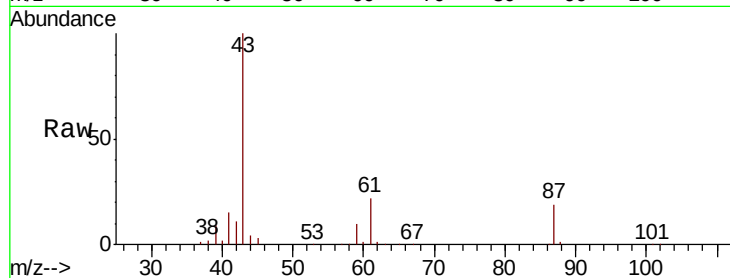
MSVOA_N

ClientSampleId :

PB114157ZHE#02

Tot Ion: 43 Resp: 330407

Ion	Ratio	Lower	Upper
43	100		
61	21.3	17.2	25.8
87	18.6	15.2	22.8

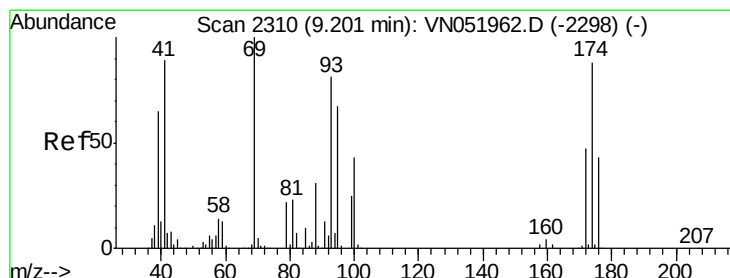
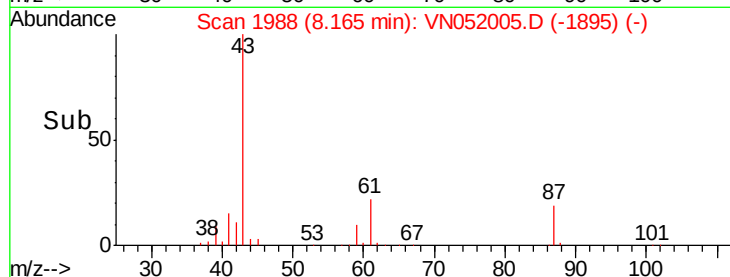
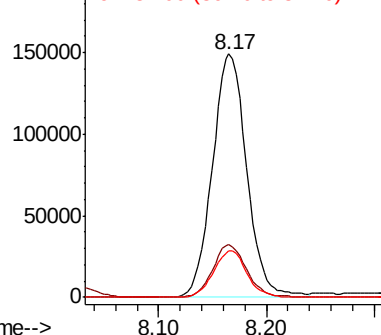


Abundance

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

Methyl methacrylate

Concen: 1.590 ug/l

RT: 9.18 min Scan# 2303

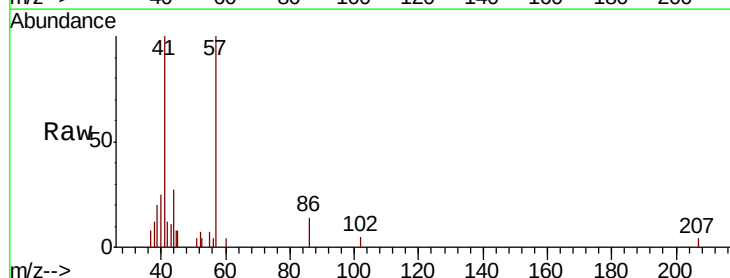
Delta R.T. -0.02 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Tgt Ion: 41 Resp: 8254

Ion	Ratio	Lower	Upper
41	100		
69	0.0	92.2	138.4#
39	30.4	60.2	90.4#

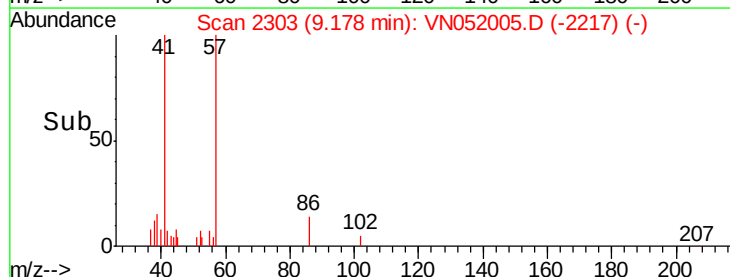
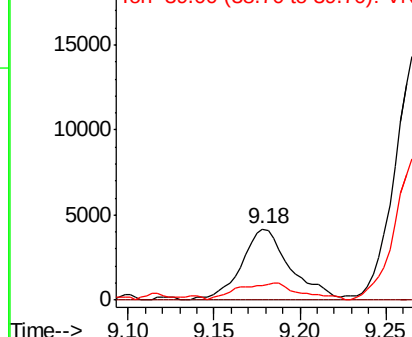


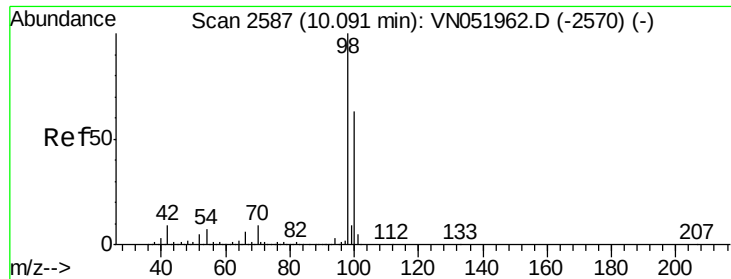
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

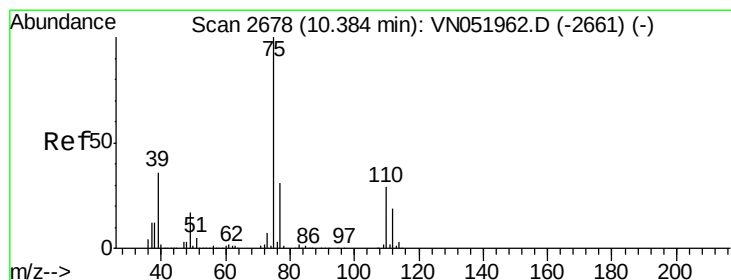
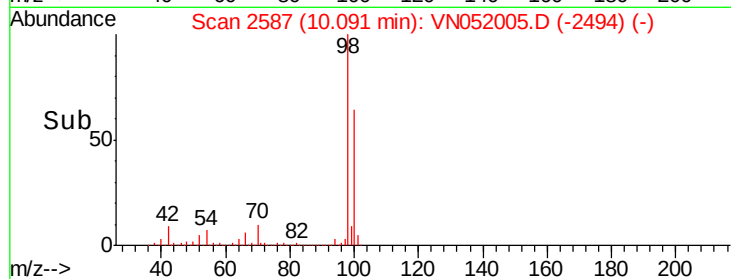
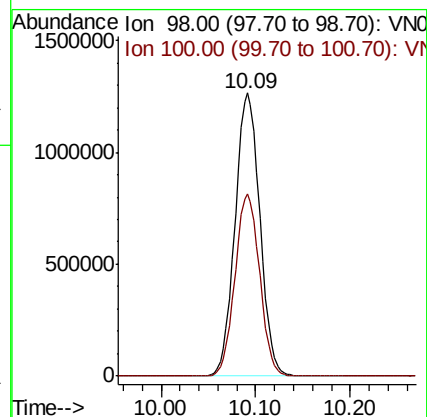
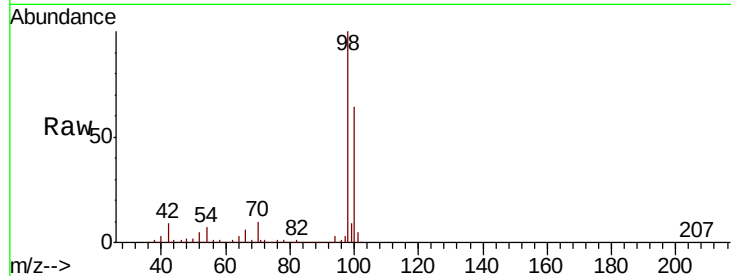
PB114157ZHE#02

Tot Ion: 98 Resp: 2304328

Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



#53

t-1,3-Dichloropropene

Concen: 1.256 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.01 min

Lab File: VN052005.D

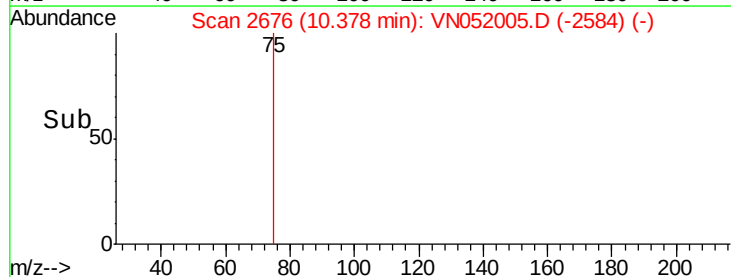
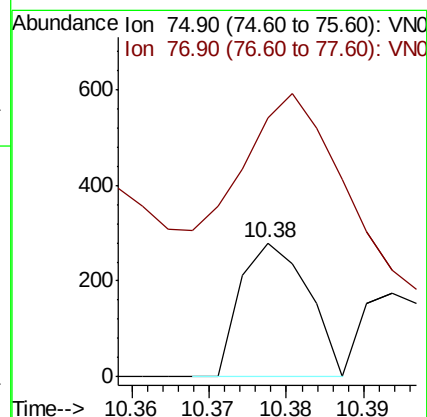
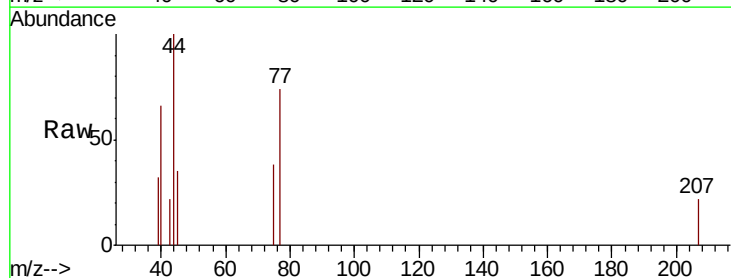
Acq: 25 Oct 2018 12:14

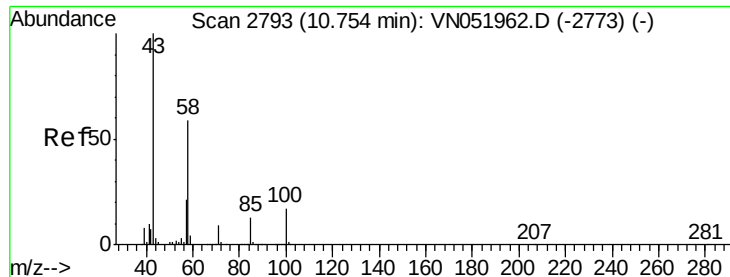
Tgt Ion: 75 Resp: 170

Ion Ratio Lower Upper

75 100

77 84.6 25.0 37.4#

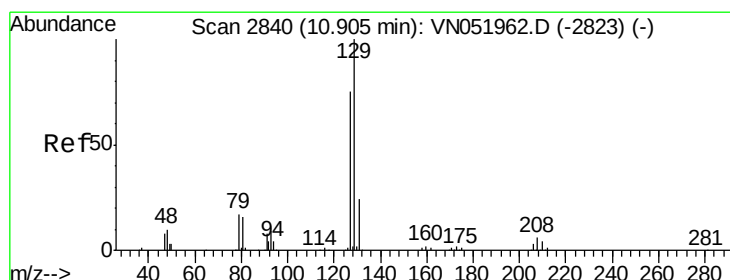
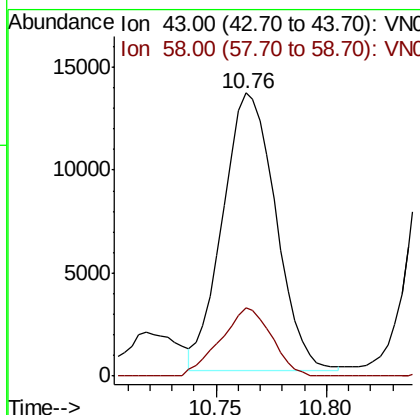
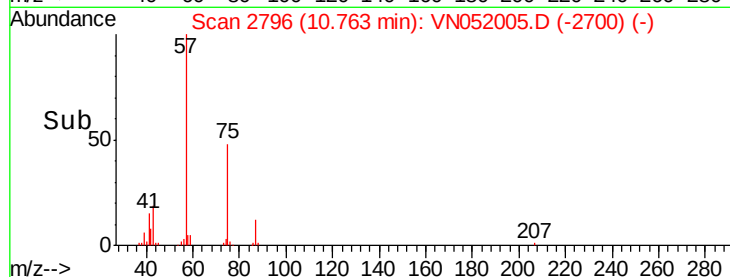
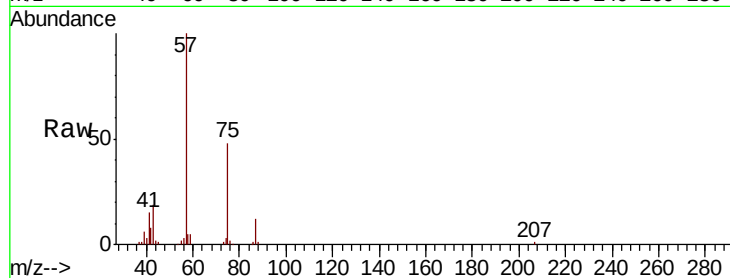




#59
2-Hexanone
Concen: 5.669 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052005.D
Acq: 25 Oct 2018 12:14

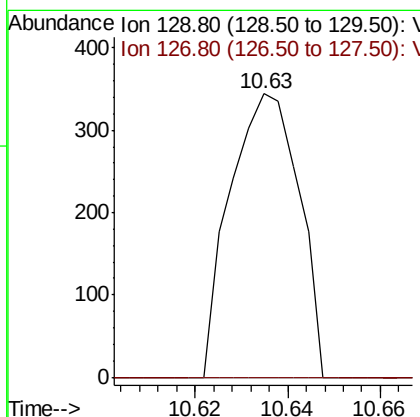
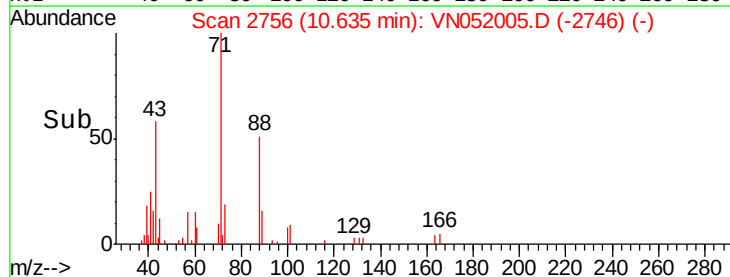
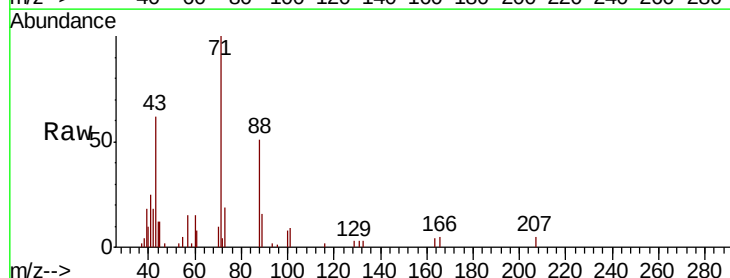
Instrument :
MSVOA_N
ClientSampleId :
PB114157ZHE#02

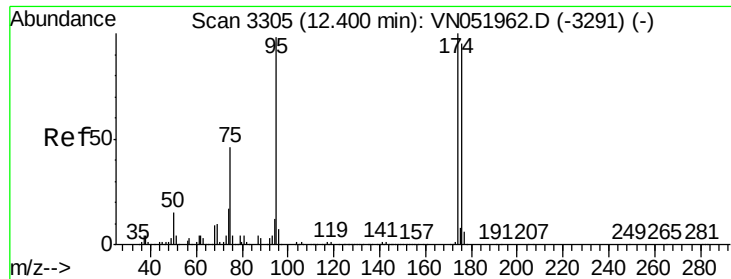
Tot Ion: 43 Resp: 22504
Ion Ratio Lower Upper
43 100
58 23.7 29.9 89.8#



#60
Dibromochloromethane
Concen: 2.006 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN052005.D
Acq: 25 Oct 2018 12:14

Tgt Ion: 129 Resp: 354
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

PB114157ZHE#02

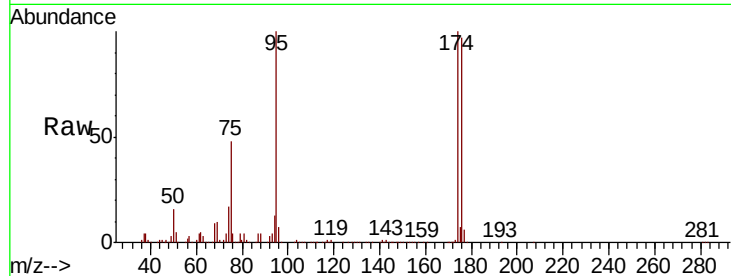
Tot Ion: 95 Resp: 748627

Ion Ratio Lower Upper

95 100

174 100.5 0.0 206.0

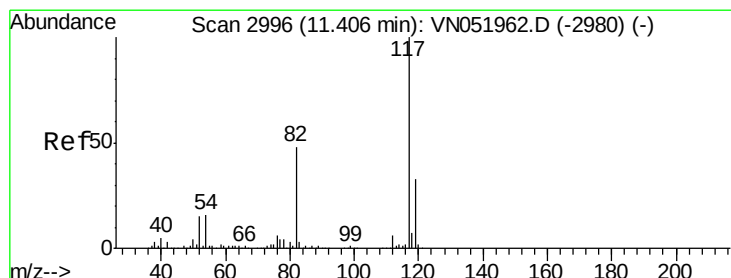
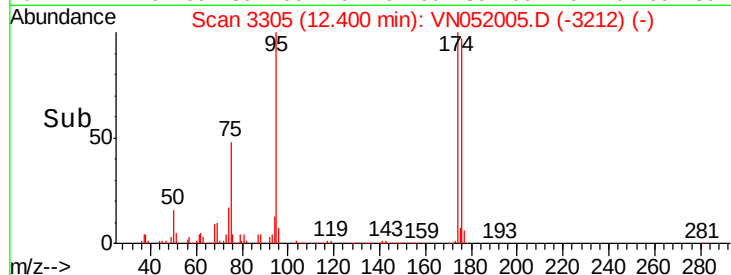
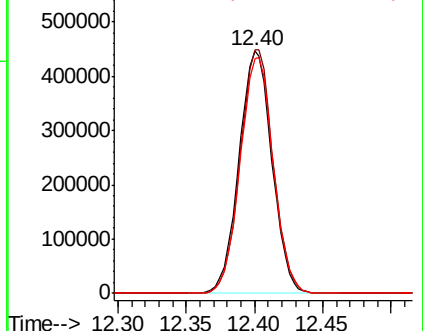
176 97.6 0.0 198.0



Abundance Ion 94.90 (94.60 to 95.60): VN051962.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051962.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051962.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

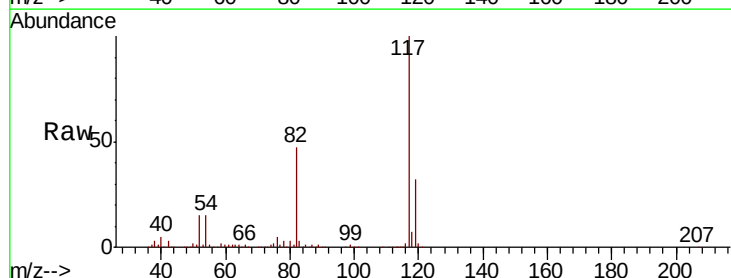
Tgt Ion: 117 Resp: 1613312

Ion Ratio Lower Upper

117 100

82 46.9 38.1 57.1

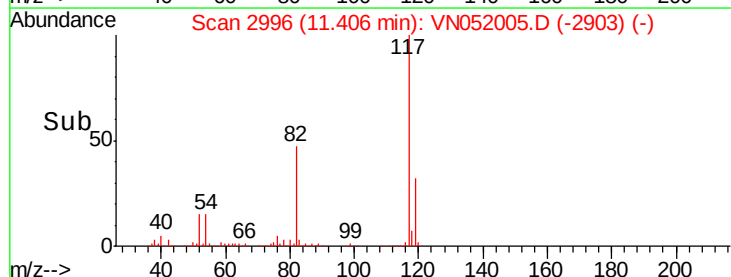
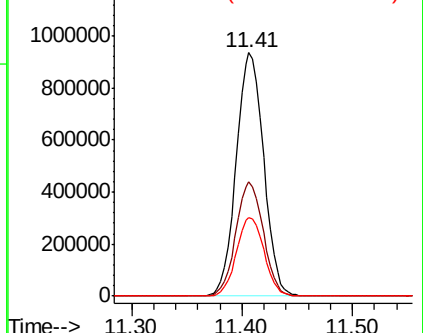
119 32.5 26.4 39.6

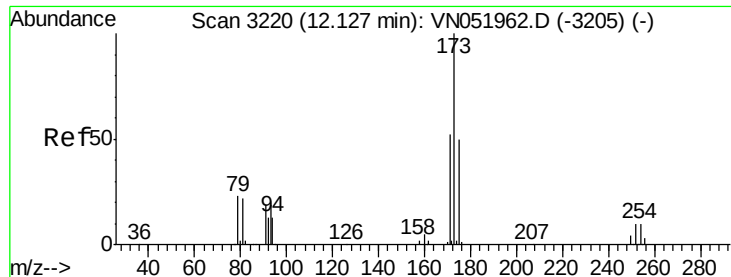


Abundance Ion 116.90 (116.60 to 117.60): VN051962.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051962.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051962.D (-2980) (-)





#71

Bromoform

Concen: 4.350 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

PB114157ZHE#02

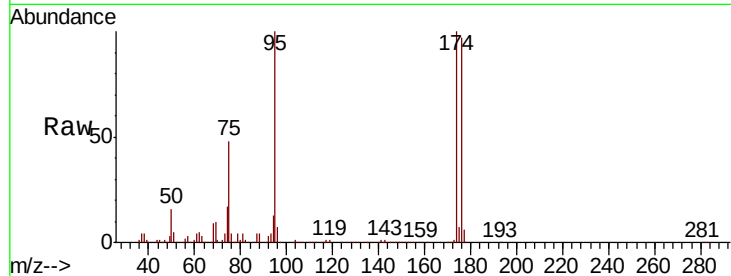
Tot Ion:173 Resp: 6151

Ion Ratio Lower Upper

173 100

175 782.8 24.6 74.0#

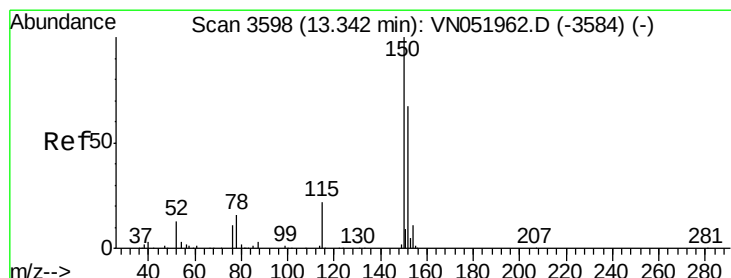
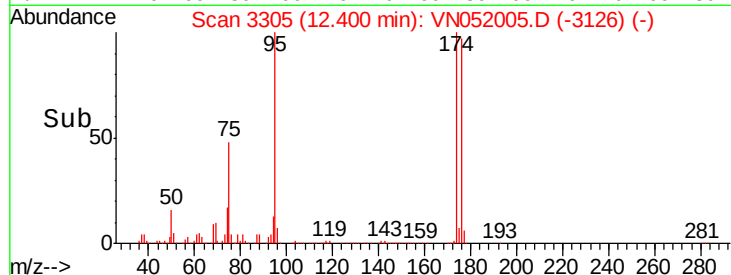
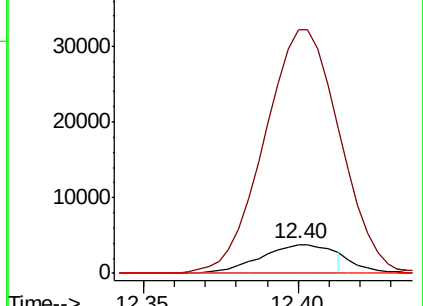
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

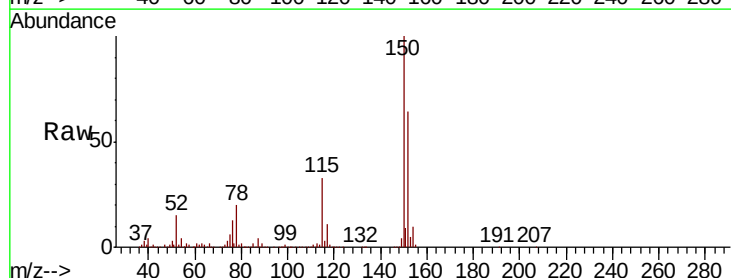
Tgt Ion:152 Resp: 752608

Ion Ratio Lower Upper

152 100

115 52.8 25.8 77.3

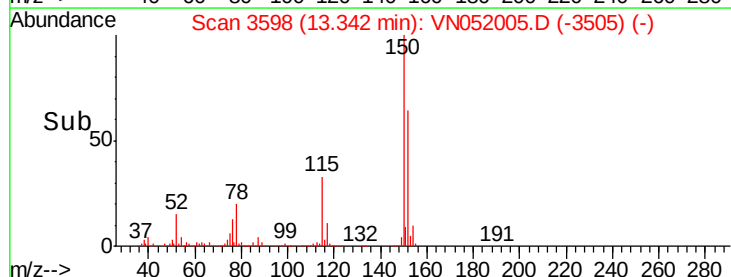
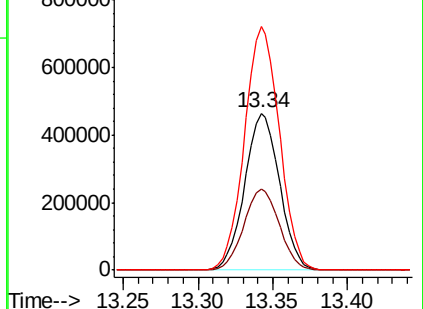
150 155.9 0.0 344.4

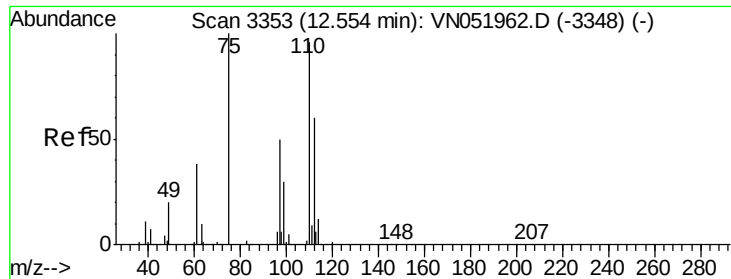


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

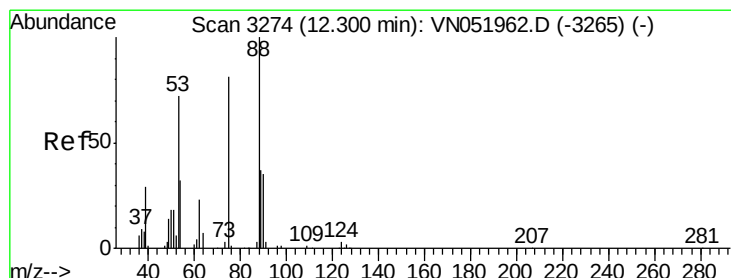
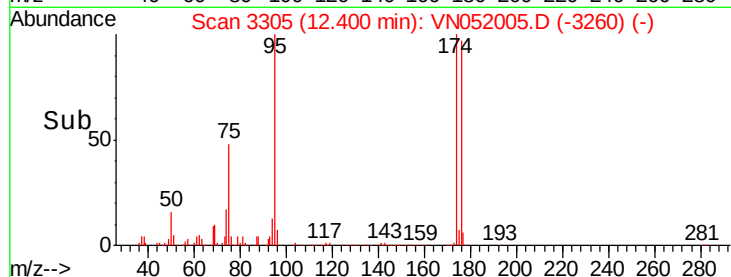
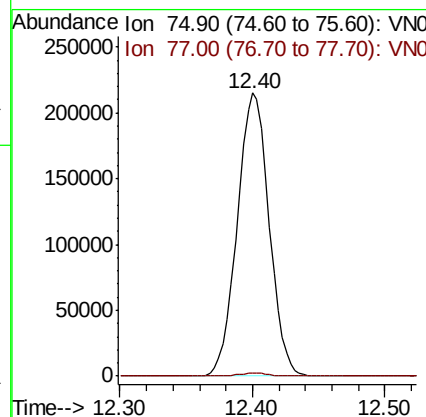
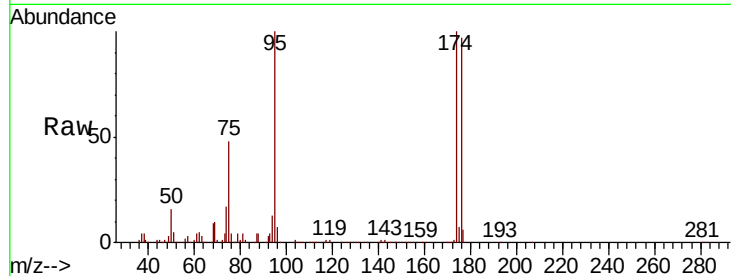




#76
 1,2,3-Trichloropropane
 Concen: 46.065 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052005.D
 Acq: 25 Oct 2018 12:14

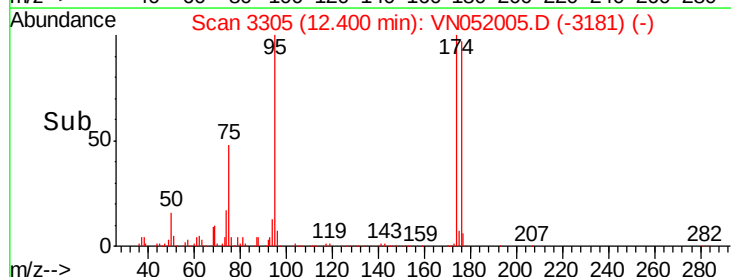
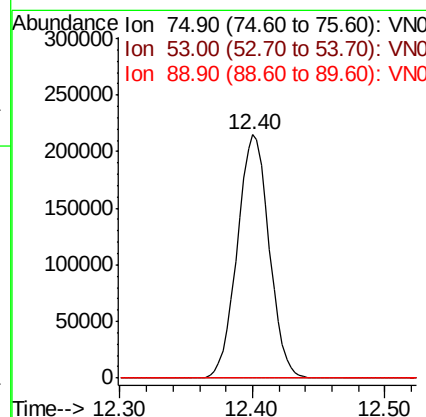
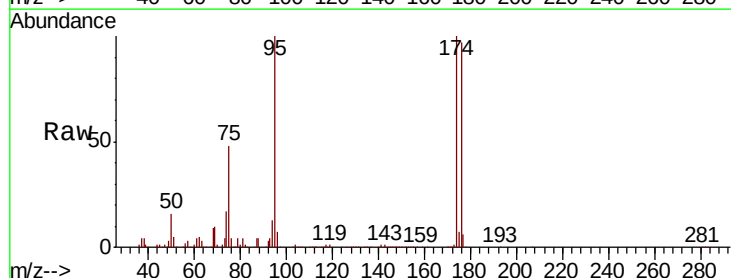
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114157ZHE#02

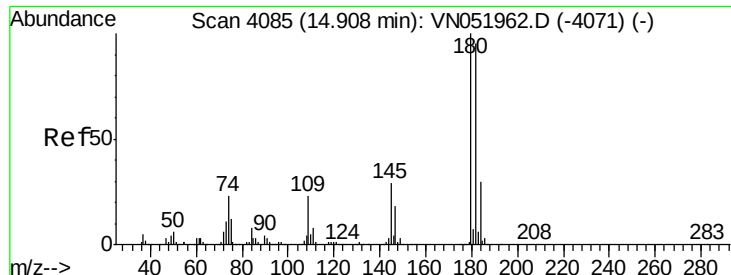
Tot Ion: 75 Resp: 358111
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 144.940 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052005.D
 Acq: 25 Oct 2018 12:14

Tgt Ion: 75 Resp: 358111
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.5 110.3#
 89 0.0 41.6 62.4#

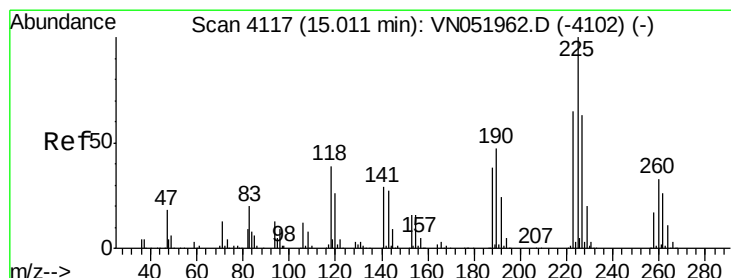
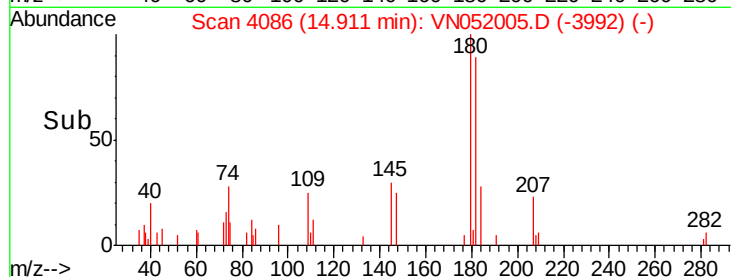
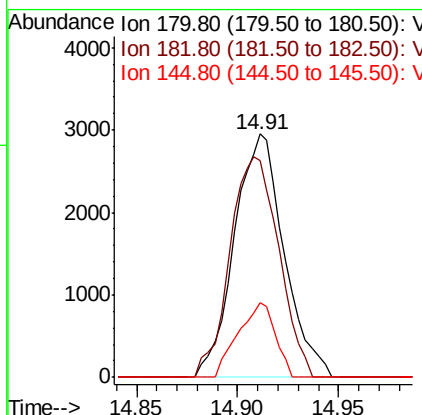
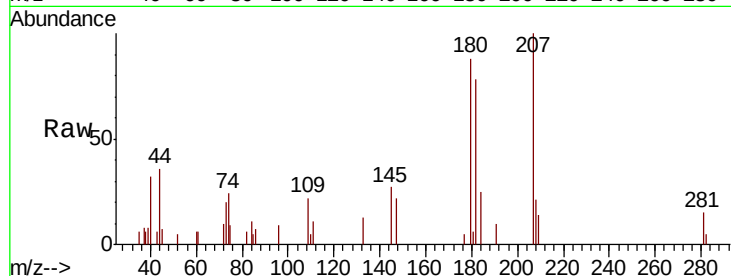




#93
 1,2,4-Trichlorobenzene
 Concen: 0.365 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052005.D
 Acq: 25 Oct 2018 12:14

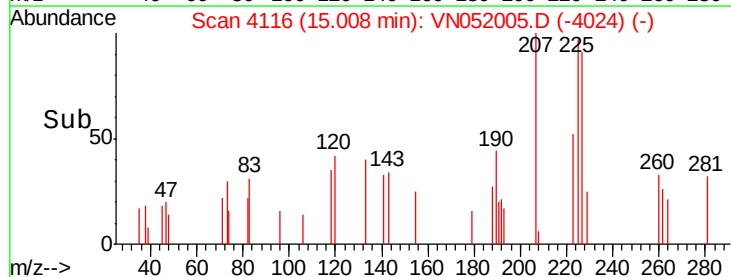
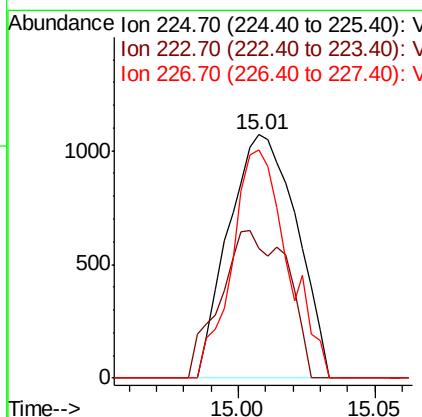
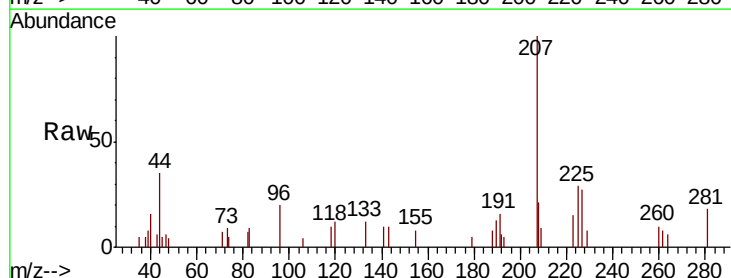
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114157ZHE#02

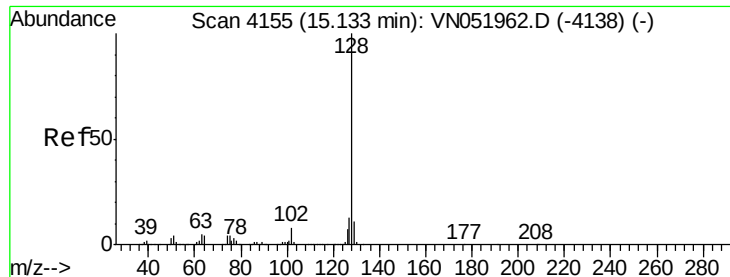
Tot Ion:180 Resp: 5074
 Ion Ratio Lower Upper
 180 100
 182 89.2 47.8 143.4
 145 22.9 14.5 43.5



#94
 Hexachlorobutadiene
 Concen: 0.260 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN052005.D
 Acq: 25 Oct 2018 12:14

Tgt Ion:225 Resp: 1854
 Ion Ratio Lower Upper
 225 100
 223 59.8 31.8 95.4
 227 76.9 31.4 94.2





#95

Naphthalene

Concen: 0.298 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

PB114157ZHE#02

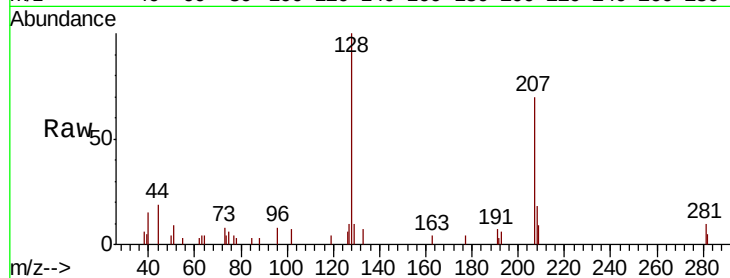
Tot Ion:128 Resp: 8979

Ion Ratio Lower Upper

128 100

127 6.7 10.3 15.5#

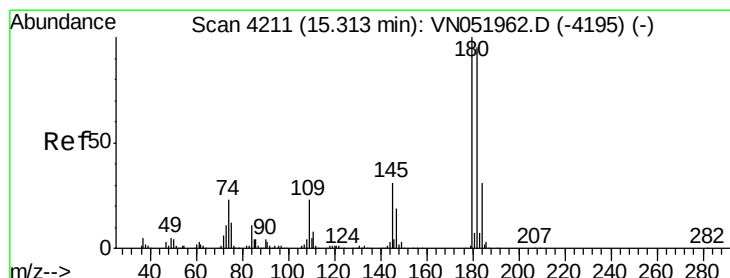
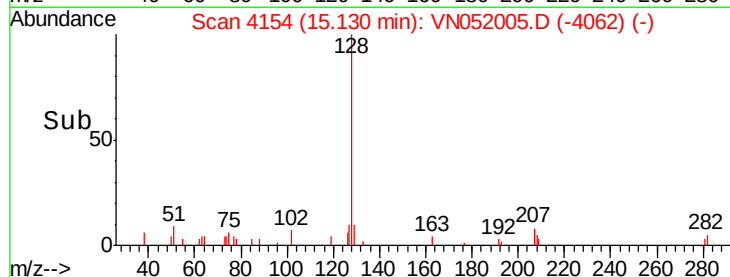
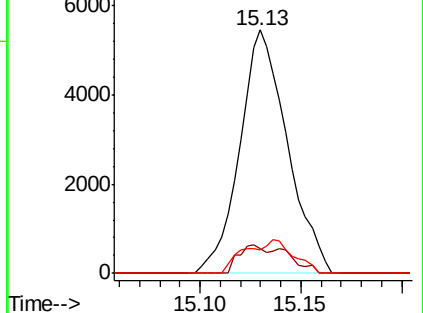
129 14.1 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.353 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052005.D

Acq: 25 Oct 2018 12:14

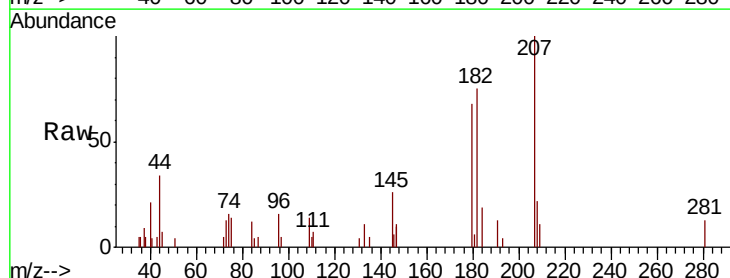
Tgt Ion:180 Resp: 4678

Ion Ratio Lower Upper

180 100

182 105.7 47.9 143.6

145 36.4 15.4 46.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

