

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101118\
 Data File : VN051820.D
 Acq On : 11 Oct 2018 18:44
 Operator : MD\SY
 Sample : J5375-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 12 06:51:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 13:17:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1090959	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1519199	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1255663	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	412795	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	503019	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
35) Dibromofluoromethane	7.59	113	434417	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	
50) Toluene-d8	10.09	98	1814086	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
62) 4-Bromofluorobenzene	12.40	95	483328	39.77	ug/l	0.00
Spiked Amount			Recovery	=	79.54%	

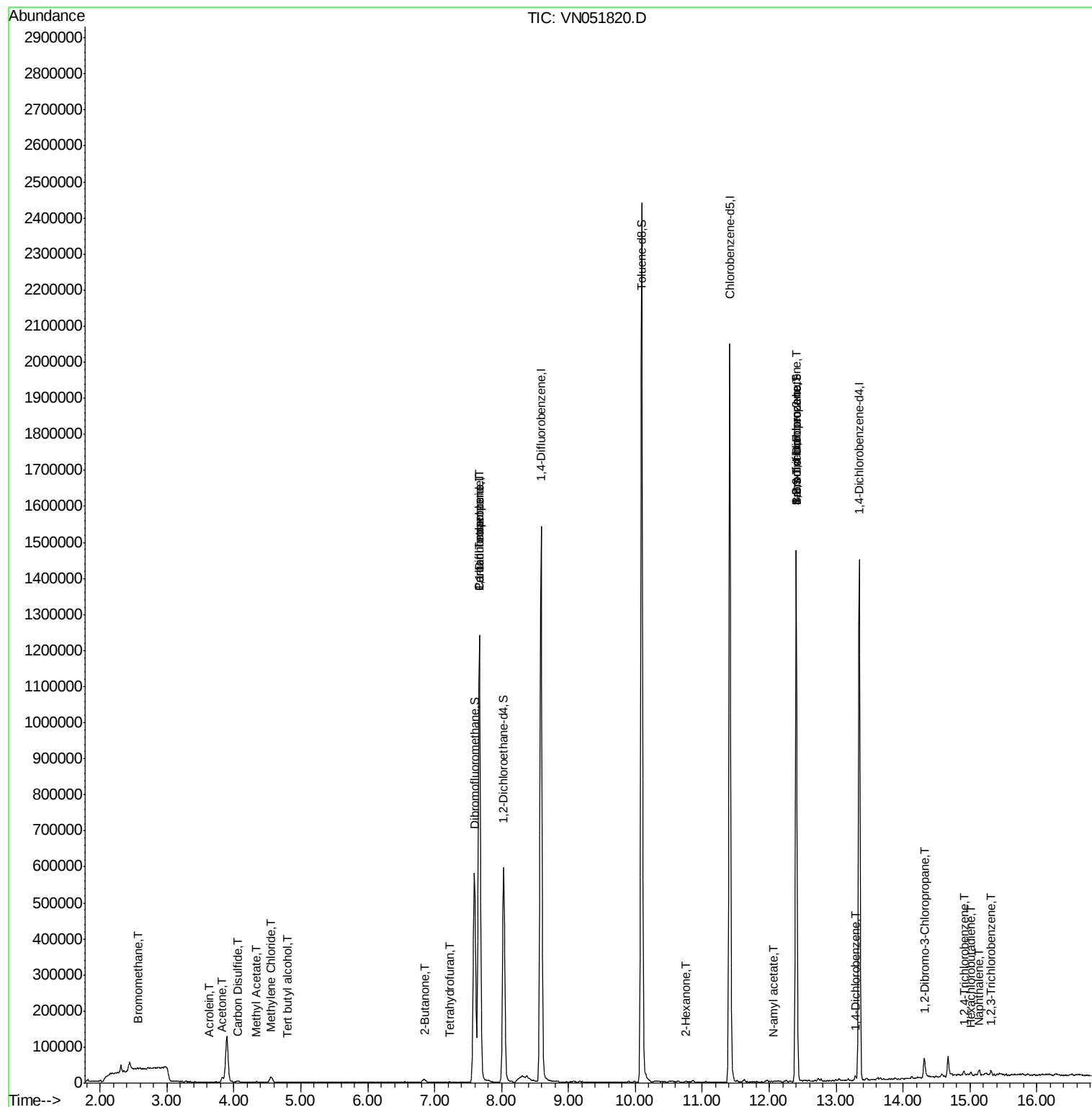
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	2660	0.268	ug/l #	79
11) Tert butyl alcohol	4.81	59	324	0.422	ug/l #	72
13) Acrolein	3.62	56	61	16.013	ug/l #	1
16) Acetone	3.82	43	22911	10.188	ug/l	98
17) Carbon Disulfide	4.05	76	7013	0.331	ug/l #	87
18) Methyl Acetate	4.34	43	2368	0.369	ug/l	95
20) Methylene Chloride	4.55	84	12314	1.323	ug/l #	93
25) 2-Butanone	6.86	43	5872	1.848	ug/l	96
29) Tetrahydrofuran	7.23	42	935	0.494	ug/l #	79
31) Cyclohexane	7.67	56	19372	Below Cal	#	16
36) 1,1-Dichloropropene	7.67	75	70210	5.709	ug/l #	51
38) Carbon Tetrachloride	7.67	117	98866	6.935	ug/l #	16
59) 2-Hexanone	10.76	43	1568	0.341	ug/l	80
71) Bromoform	12.41	173	3683	4.028	ug/l #	1
74) N-amyl acetate	12.07	43	1359	0.215	ug/l #	65
76) 1,2,3-Trichloropropane	12.40	75	247261	48.536	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	247261	137.936	ug/l #	15
88) 1,4-Dichlorobenzene	13.28	146	2690	0.205	ug/l	85
92) 1,2-Dibromo-3-Chloropropan	14.32	75	20031	19.475	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	3818	4.165	ug/l	91
94) Hexachlorobutadiene	15.02	225	1226	0.289	ug/l	96
95) Naphthalene	15.13	128	12953	5.173	ug/l	95
96) 1,2,3-Trichlorobenzene	15.32	180	4179	3.443	ug/l	93

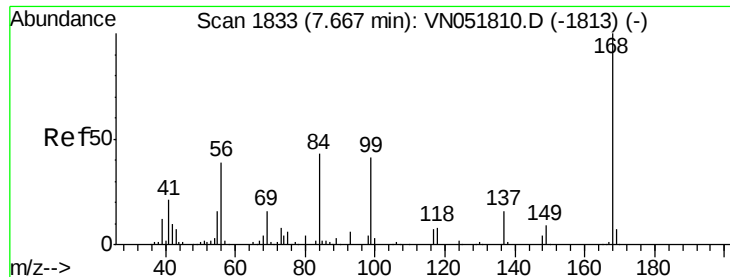
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101118\
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Acq On : 11 Oct 2018 18:44
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Quant Title : SW846 8260
QLast Update : Thu Oct 11 13:17:04 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

Instrument :

MSVOA_N

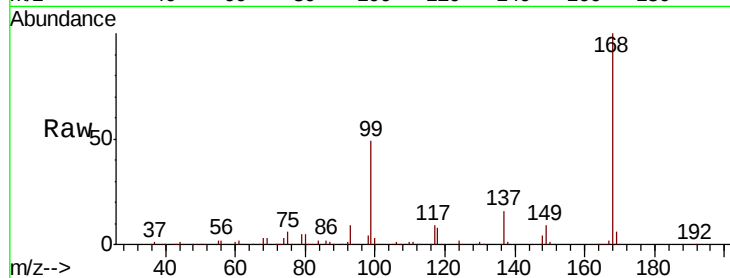
ClientSampleId :

Tot Ion:168 Resp: 1090959

Ion Ratio Lower Upper

168 100

99 49.0 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051810.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051810.D (-1813) (-)

7.67

500000

400000

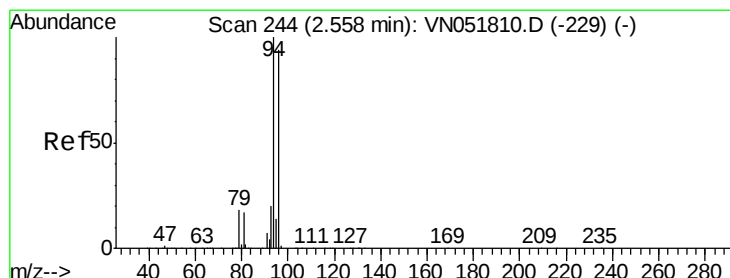
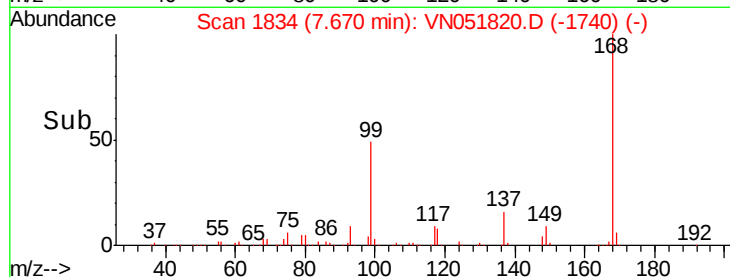
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.268 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.01 min

Lab File: VN051820.D

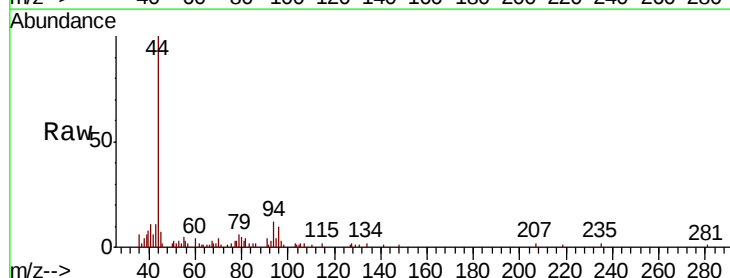
Acq: 11 Oct 2018 18:44

Tgt Ion: 94 Resp: 2660

Ion Ratio Lower Upper

94 100

96 74.3 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN051810.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN051810.D (-229) (-)

2000

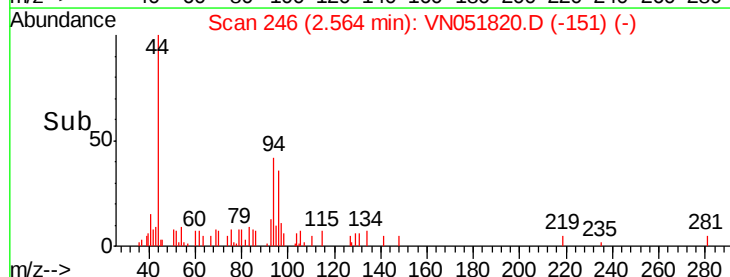
1500

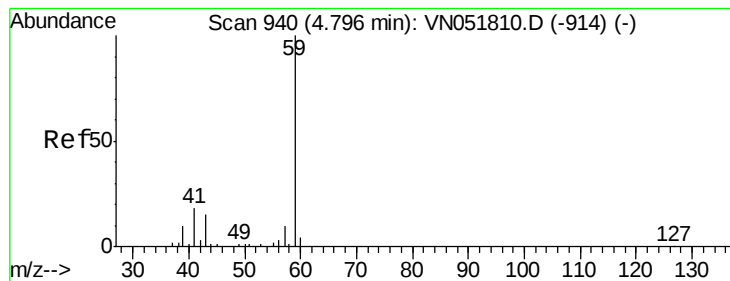
1000

500

0

Time-->



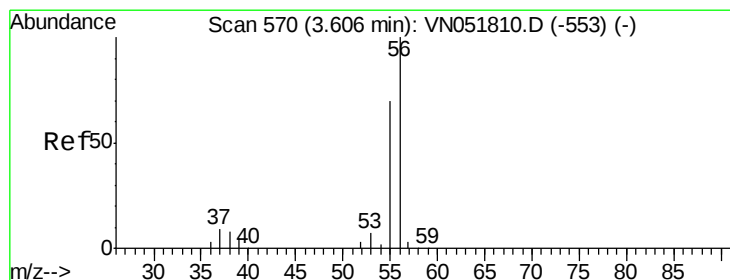
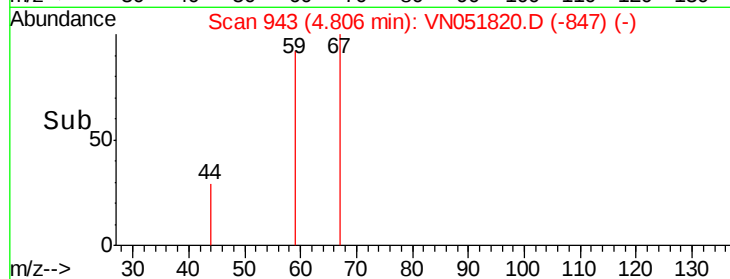
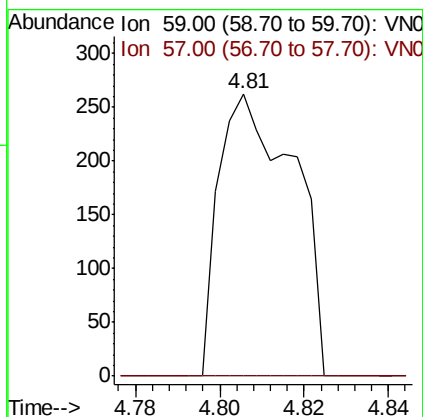
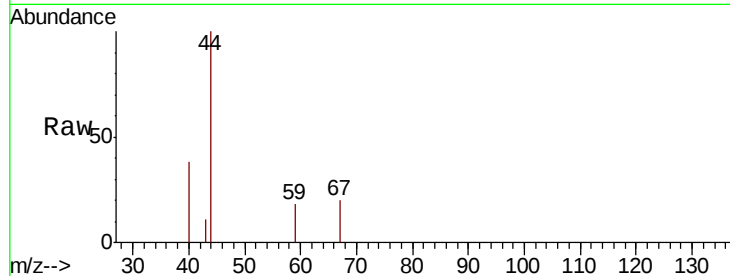


#11

Tert butyl alcohol
 Concen: 0.422 ug/l
 RT: 4.81 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

Instrument :
 MSVOA_N
 ClientSampled :

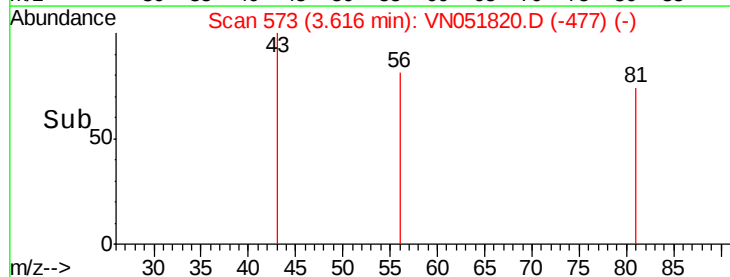
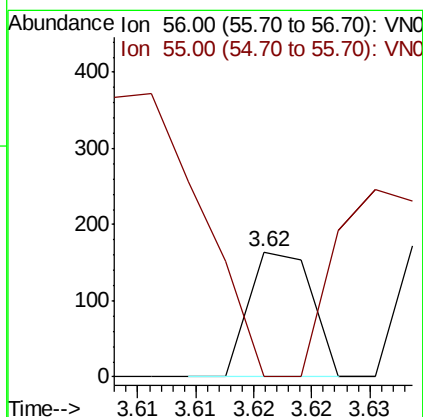
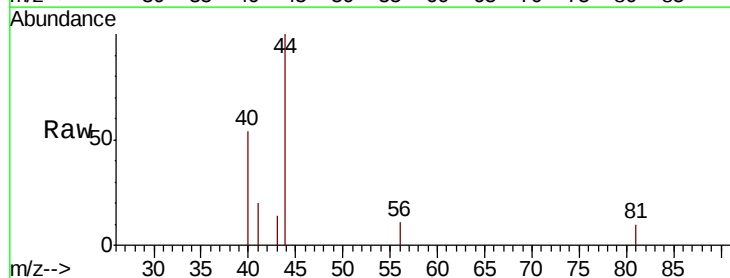
Tot Ion: 59 Resp: 324
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

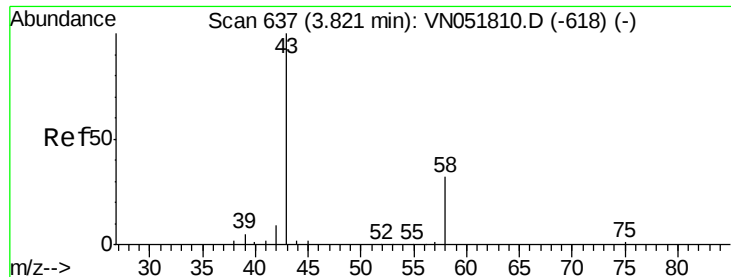


#13

Acrolein
 Concen: 16.013 ug/l
 RT: 3.62 min Scan# 573
 Delta R.T. 0.01 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

Tgt Ion: 56 Resp: 61
 Ion Ratio Lower Upper
 56 100
 55 437.7 57.7 86.5#





#16

Acetone

Concen: 10.188 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

Instrument :

MSVOA_N

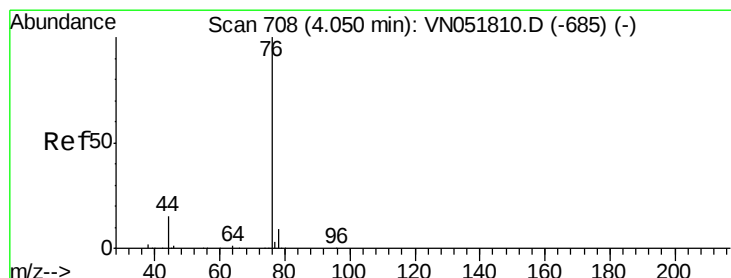
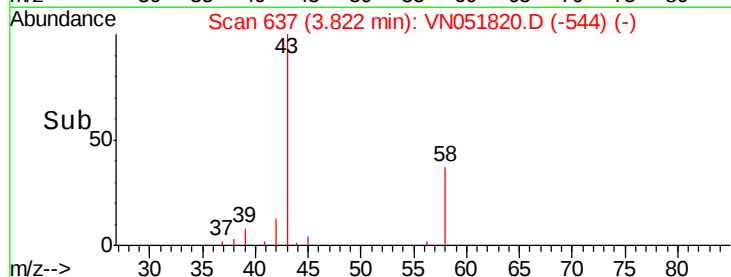
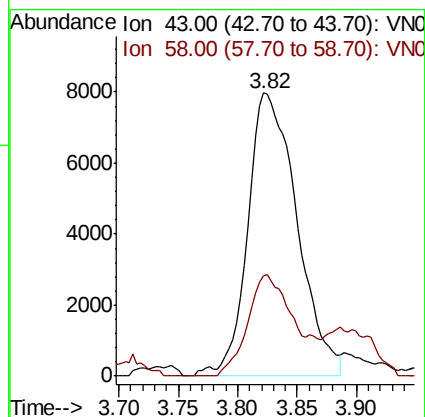
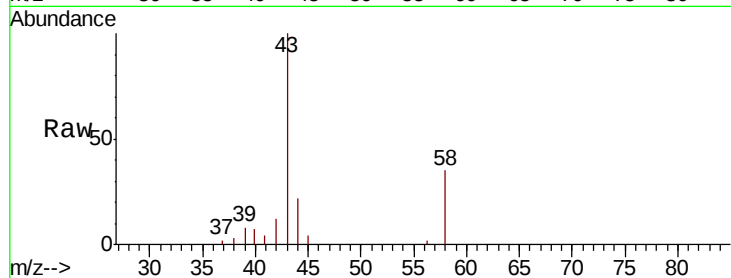
ClientSampled :

Tot Ion: 43 Resp: 22911

Ion Ratio Lower Upper

43 100

58 35.4 27.2 40.8



#17

Carbon Disulfide

Concen: 0.331 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051820.D

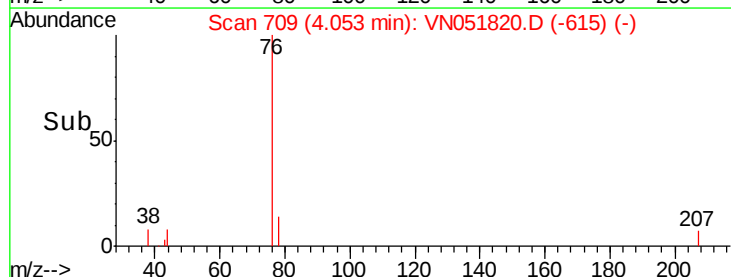
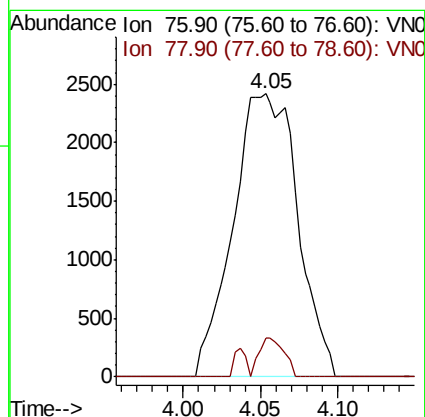
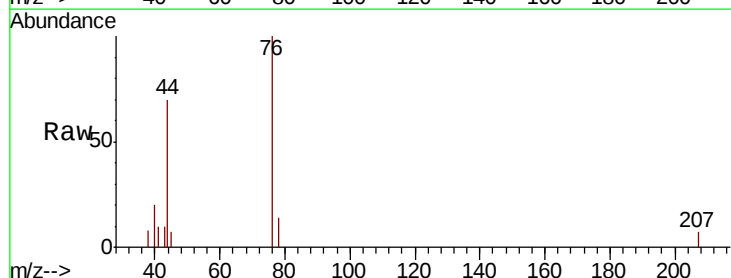
Acq: 11 Oct 2018 18:44

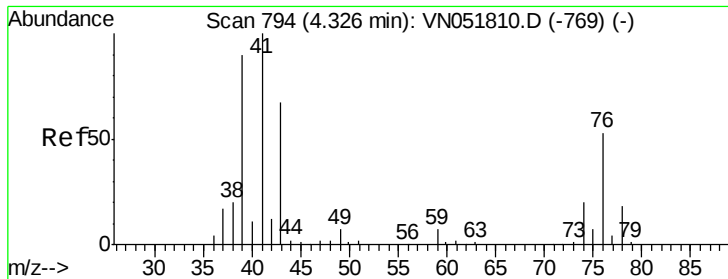
Tgt Ion: 76 Resp: 7013

Ion Ratio Lower Upper

76 100

78 13.6 7.3 10.9#

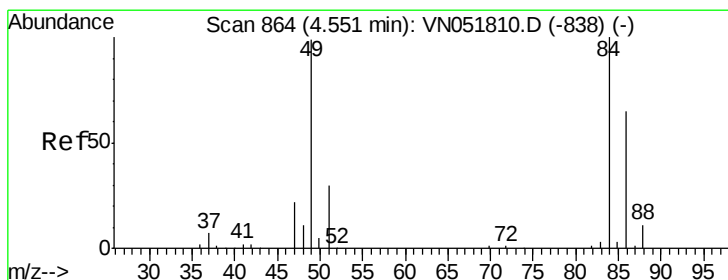
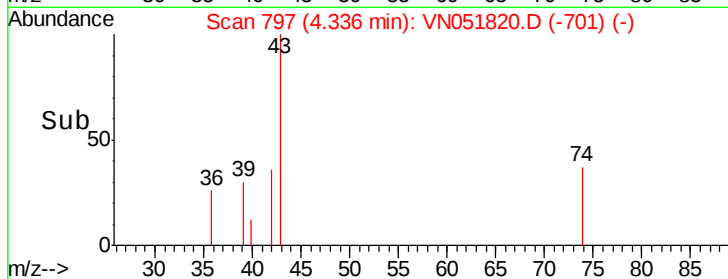
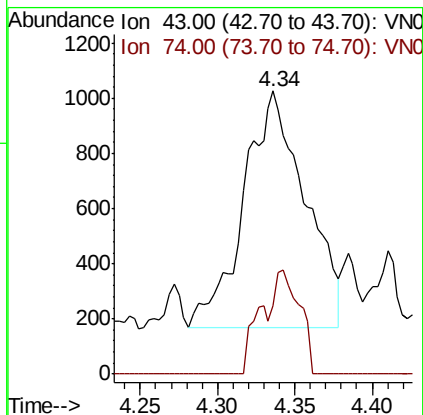
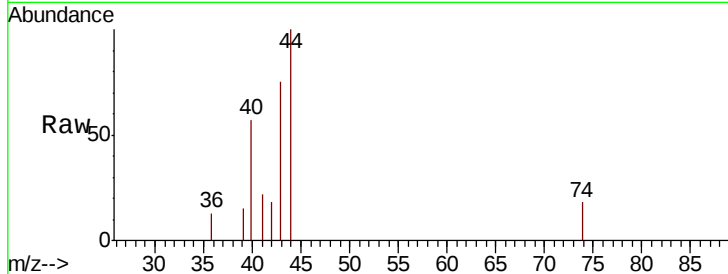




#18
Methyl Acetate
Concen: 0.369 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051820.D
Acq: 11 Oct 2018 18:44

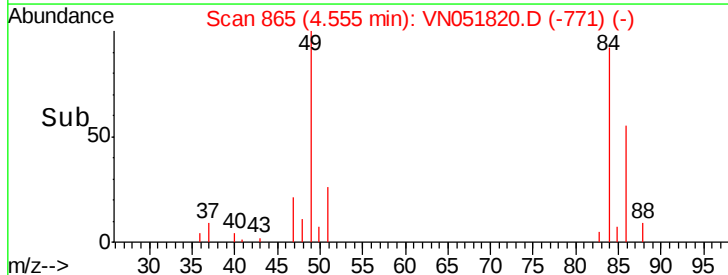
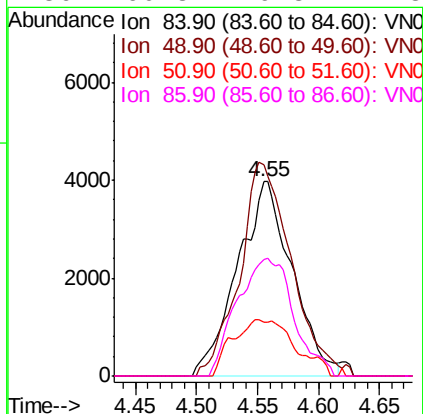
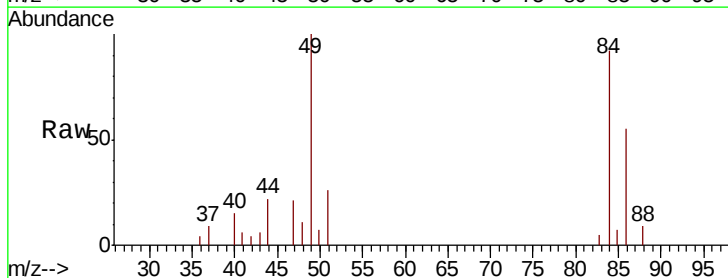
Instrument :
MSVOA_N
ClientSampled :

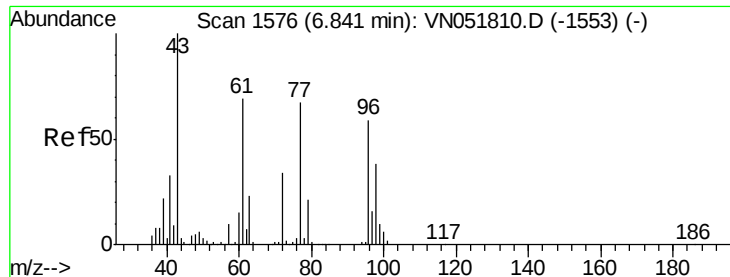
Tot Ion: 43 Resp: 2368
Ion Ratio Lower Upper
43 100
74 27.1 19.8 29.8



#20
Methylene Chloride
Concen: 1.323 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051820.D
Acq: 11 Oct 2018 18:44

Tgt Ion: 84 Resp: 12314
Ion Ratio Lower Upper
84 100
49 108.9 93.2 139.8
51 27.8 29.0 43.6#
86 60.3 49.8 74.8





#25

2-Butanone

Concen: 1.848 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

Instrument :

MSVOA_N

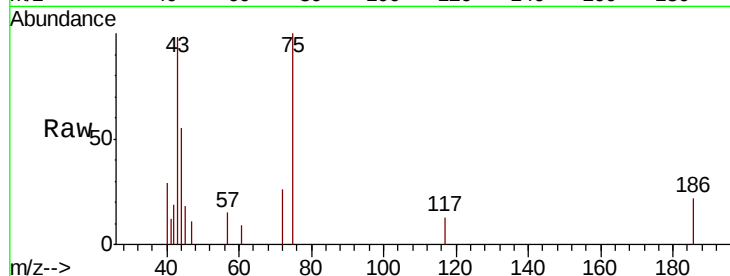
ClientSampled :

Tot Ion: 43 Resp: 5872

Ion Ratio Lower Upper

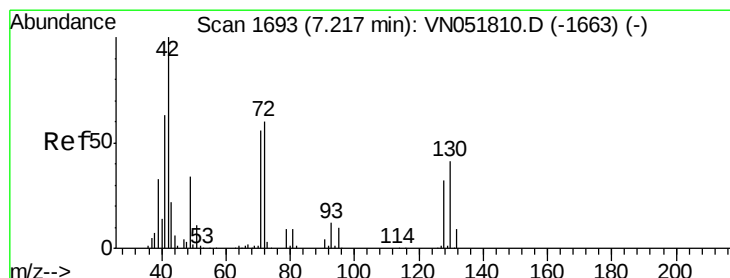
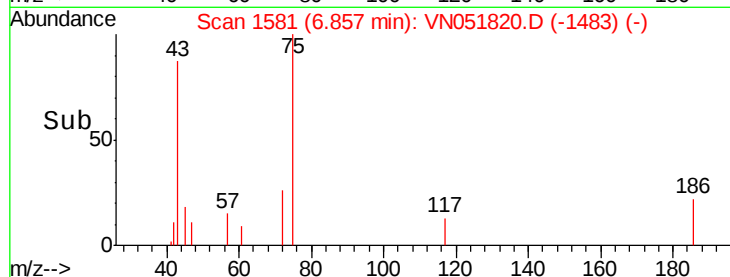
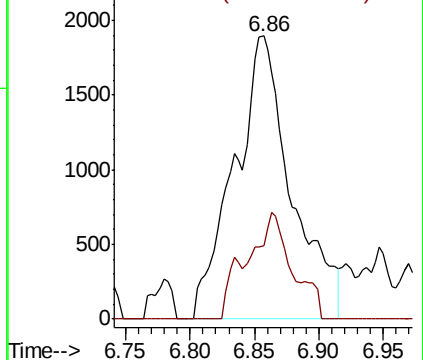
43 100

72 26.1 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.494 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

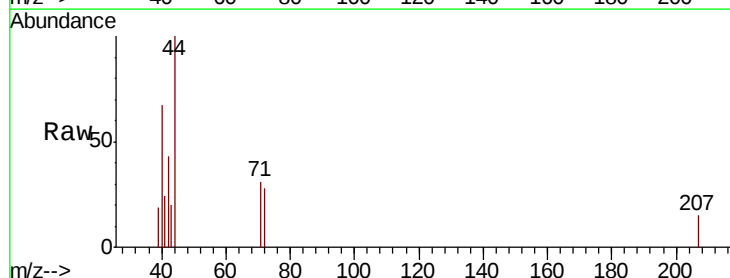
Tgt Ion: 42 Resp: 935

Ion Ratio Lower Upper

42 100

72 52.6 35.5 53.3

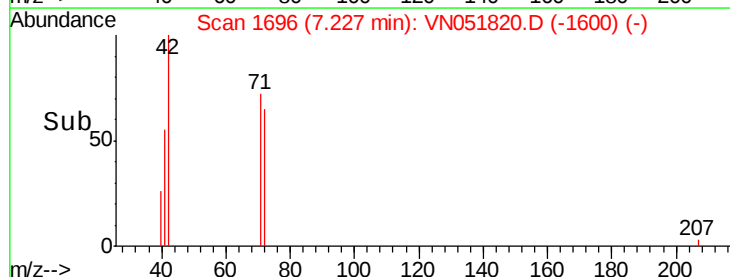
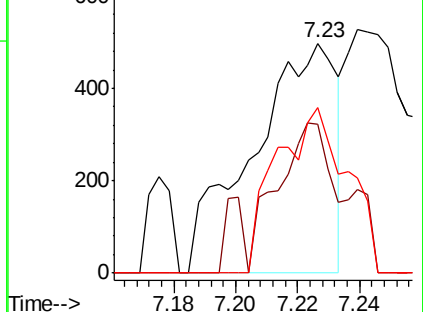
71 60.9 33.7 50.5#

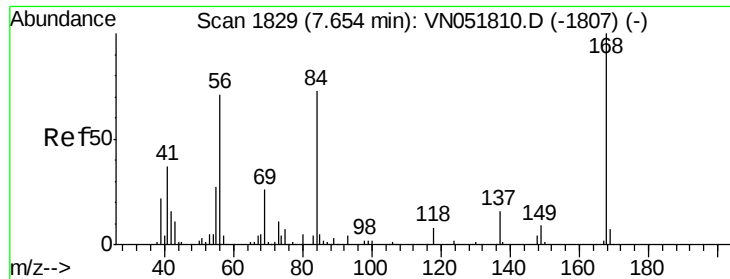


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

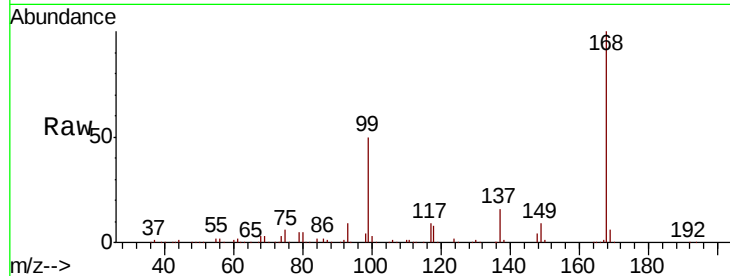




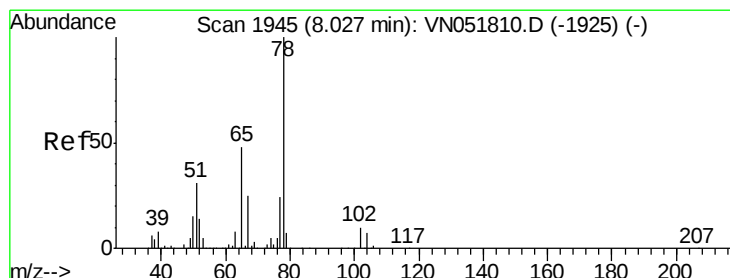
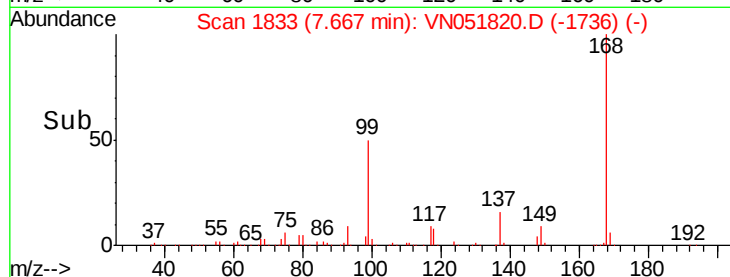
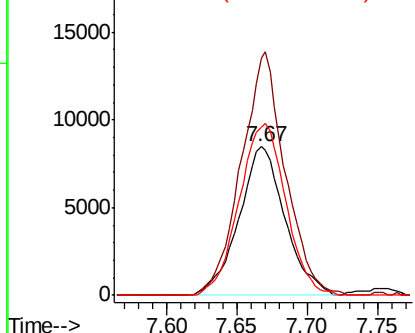
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051820.D
Acq: 11 Oct 2018 18:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 19372
Ion Ratio Lower Upper
56 100
69 159.5 26.2 39.4#
84 113.4 68.3 102.5#

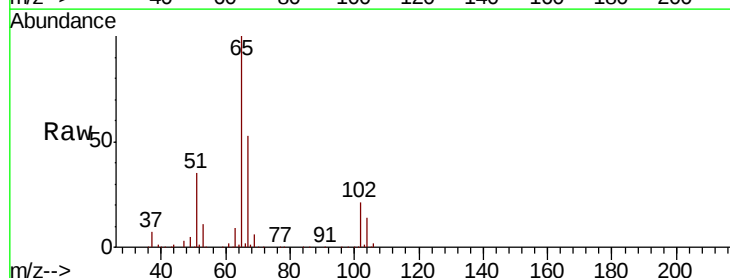


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

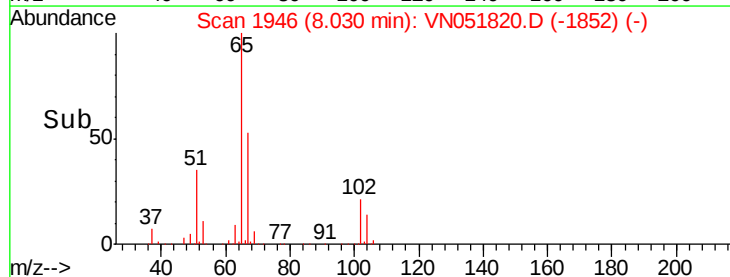
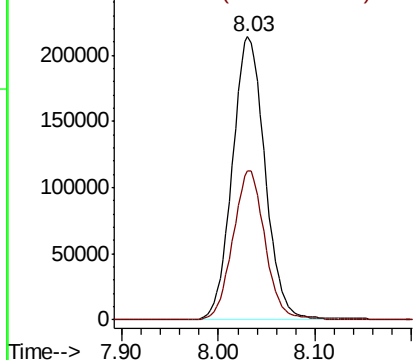


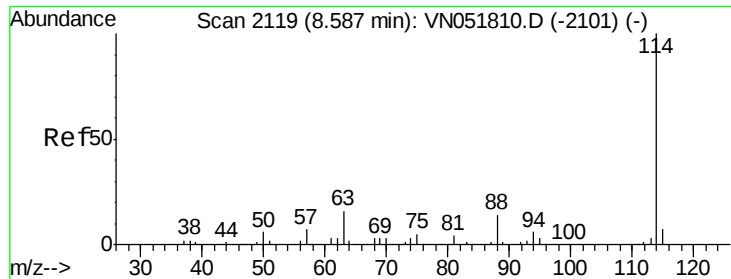
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051820.D
Acq: 11 Oct 2018 18:44

Tgt Ion: 65 Resp: 503019
Ion Ratio Lower Upper
65 100
67 51.9 0.0 110.4



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

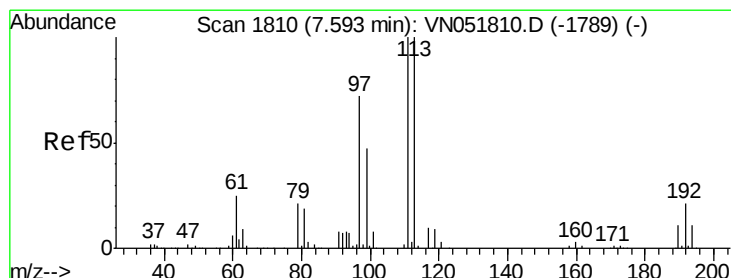
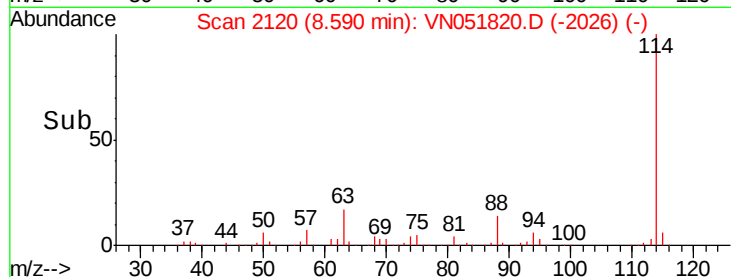
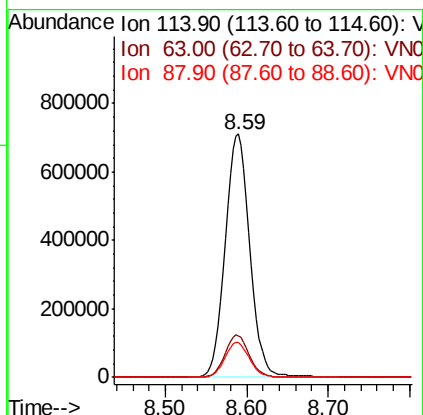
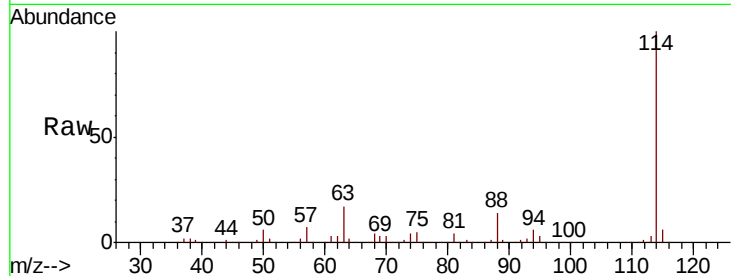




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

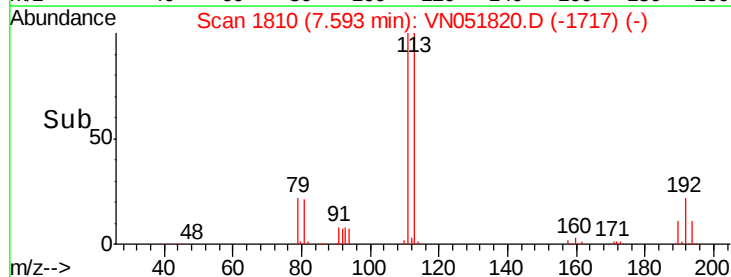
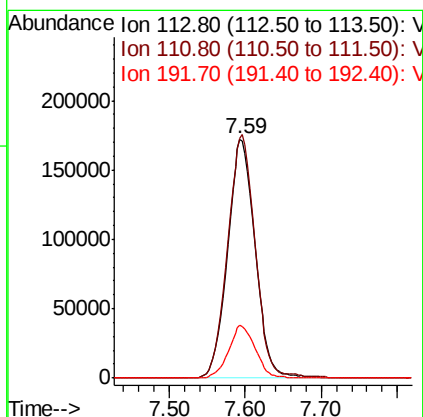
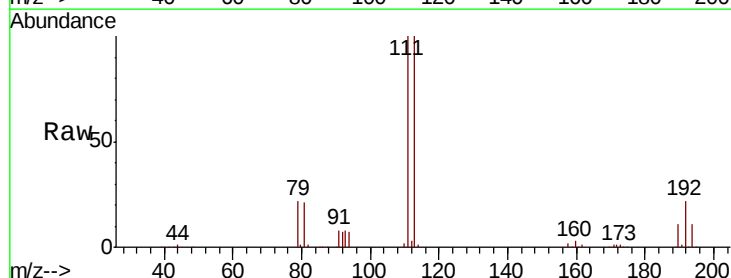
Instrument :
 MSVOA_N
 ClientSampleId :

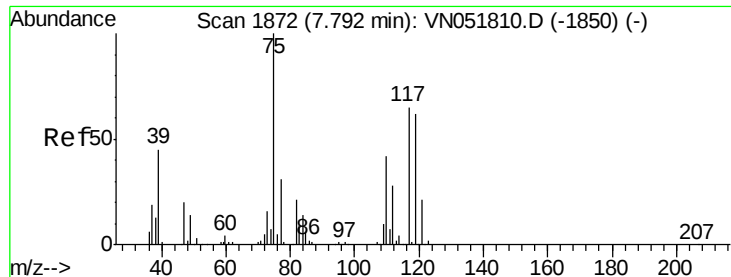
Tot Ion:114 Resp: 1519199
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 38.6
 88 14.2 0.0 30.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

Tgt Ion:113 Resp: 434417
 Ion Ratio Lower Upper
 113 100
 111 100.8 82.6 123.8
 192 21.4 18.0 27.0

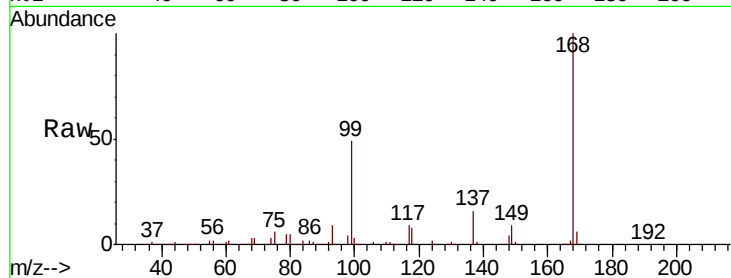




#36
 1,1-Dichloropropene
 Concen: 5.709 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	70210
Ion Ratio	100		
Lower	18.1		
Upper	54.4		
77	0.0		
	24.8		
	37.2		

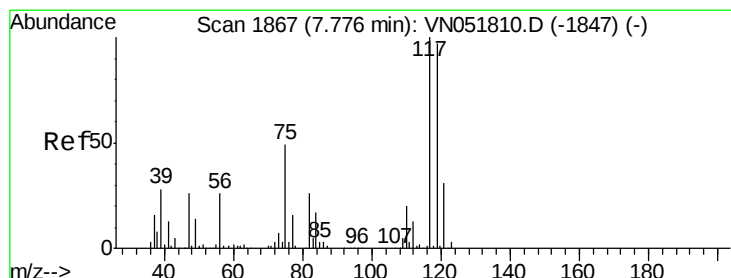
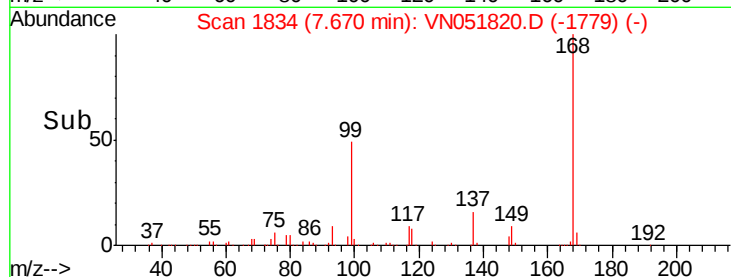
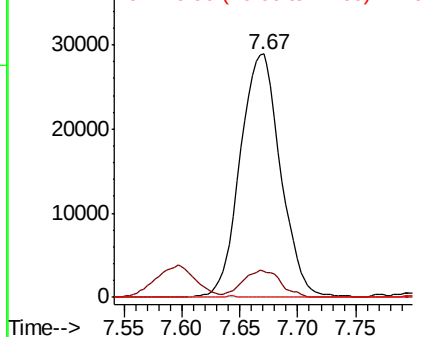


Abundance

Ion 74.90 (74.60 to 75.60): VN051810.D (-1850) (-)

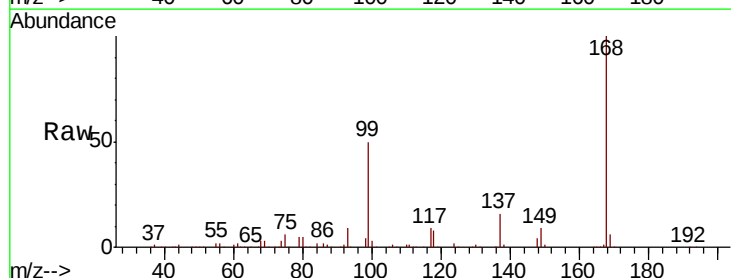
Ion 109.90 (109.60 to 110.60): VN051810.D (-1850) (-)

Ion 76.90 (76.60 to 77.60): VN051810.D (-1850) (-)



#38
 Carbon Tetrachloride
 Concen: 6.935 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

Tgt Ion	117	Resp	98866
Ion Ratio	100		
Lower	76.3		
Upper	114.5		
119	4.4		
121	0.0		
	24.6		
	36.8		

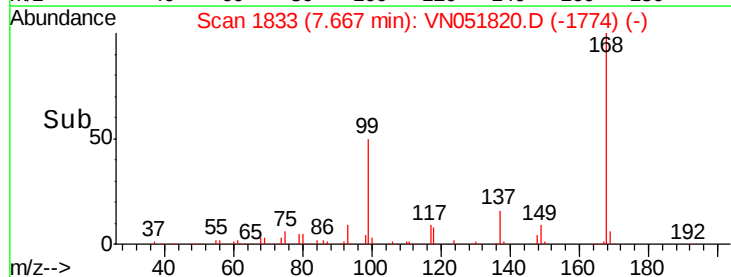
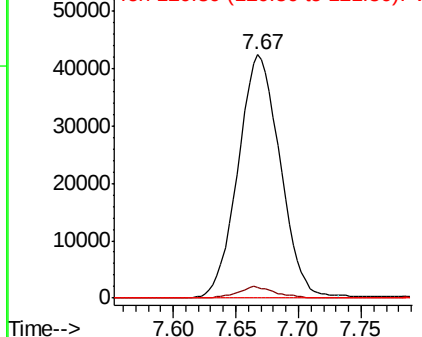


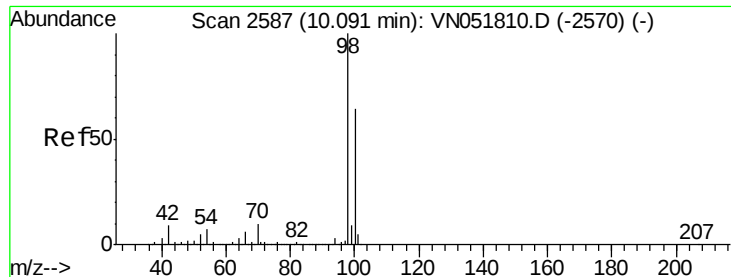
Abundance

Ion 116.80 (116.50 to 117.50): VN051810.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN051810.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN051810.D (-1847) (-)





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

Instrument :

MSVOA_N

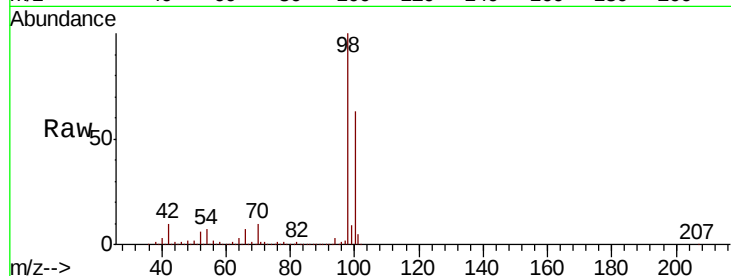
ClientSampleId :

Tot Ion: 98 Resp: 1814086

Ion Ratio Lower Upper

98 100

100 62.9 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN051810.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051810.D (-2570) (-)

10.09

1000000

800000

600000

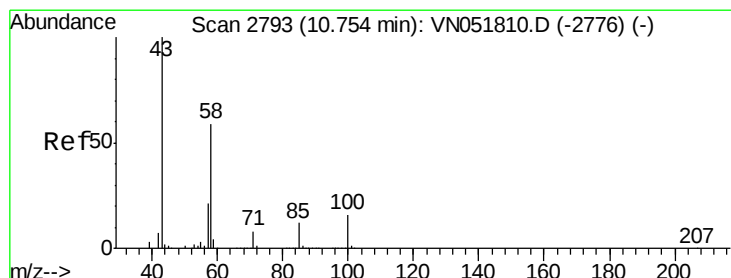
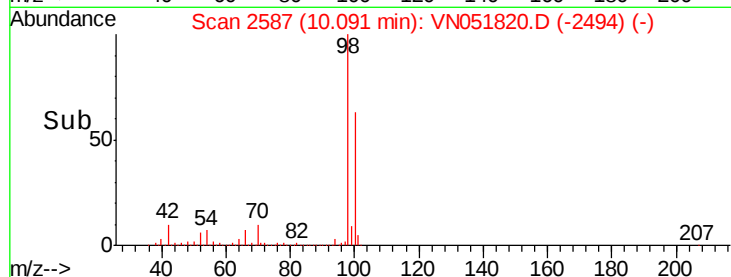
400000

200000

0

10.00 10.10 10.20 10.30

Time-->



#59

2-Hexanone

Concen: 0.341 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN051820.D

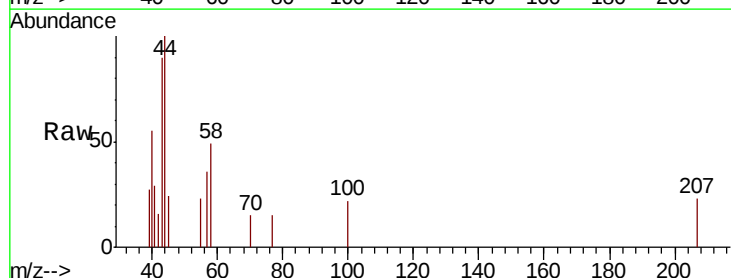
Acq: 11 Oct 2018 18:44

Tgt Ion: 43 Resp: 1568

Ion Ratio Lower Upper

43 100

58 42.3 28.3 85.0



Abundance Ion 43.00 (42.70 to 43.70): VN051810.D (-2776) (-)

Ion 58.00 (57.70 to 58.70): VN051810.D (-2776) (-)

10.76

1000

800

600

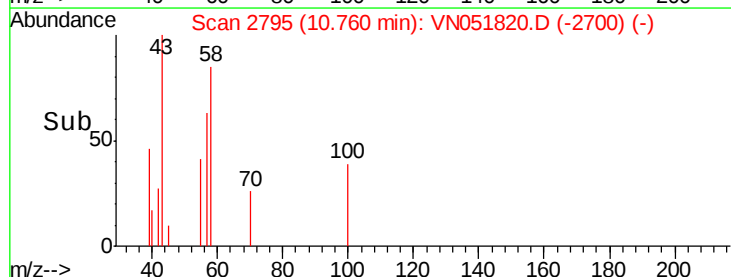
400

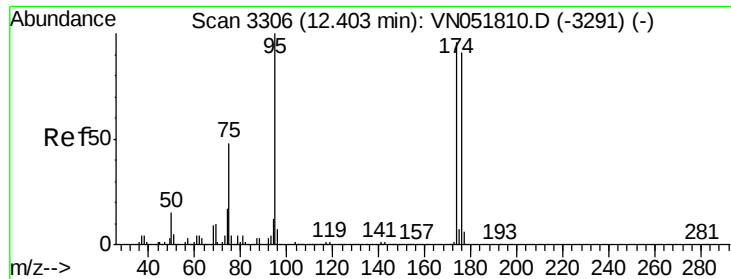
200

0

10.70 10.75 10.80

Time-->

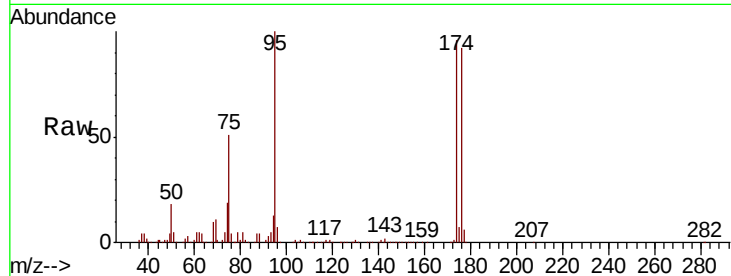




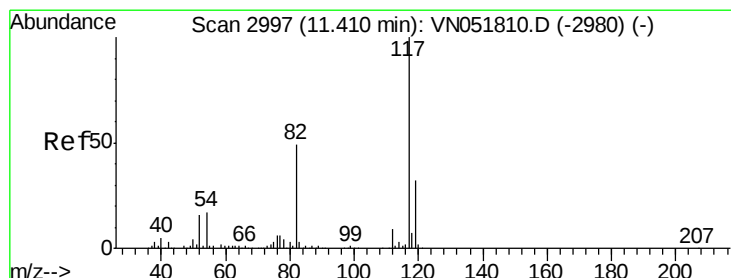
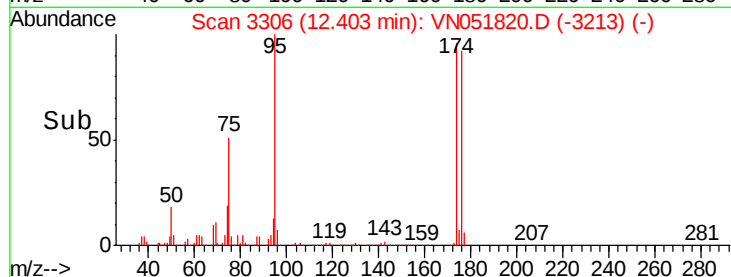
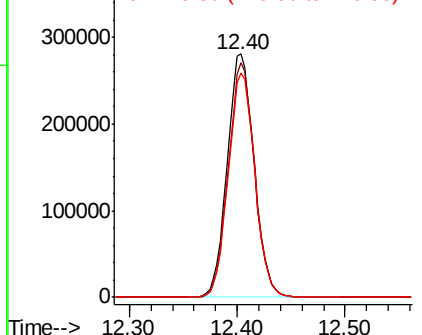
#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051820.D
Acq: 11 Oct 2018 18:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 483328
Ion Ratio Lower Upper
95 100
174 95.3 0.0 183.0
176 92.1 0.0 178.8

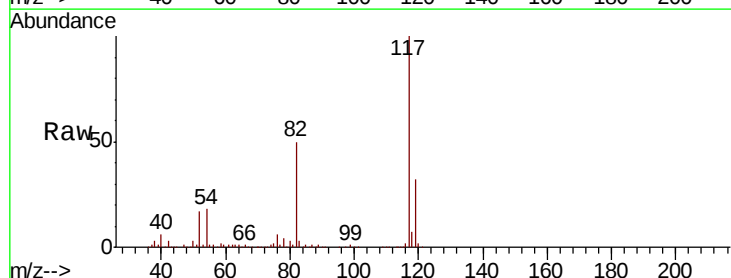


Abundance Ion 94.90 (94.60 to 95.60): VN
Ion 173.80 (173.50 to 174.50): VN
Ion 175.80 (175.50 to 176.50): VN

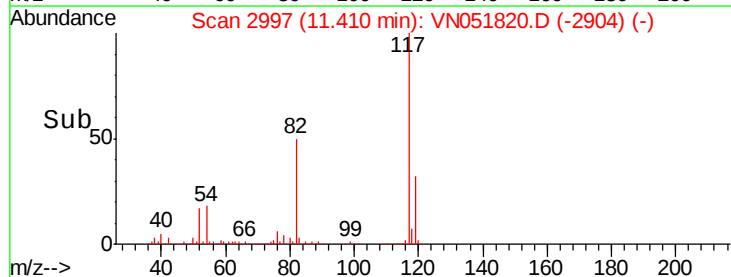
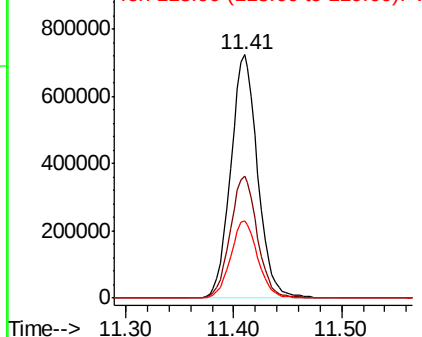


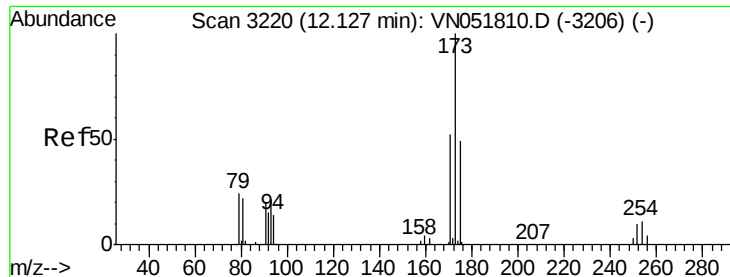
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051820.D
Acq: 11 Oct 2018 18:44

Tgt Ion: 117 Resp: 1255663
Ion Ratio Lower Upper
117 100
82 50.0 42.6 64.0
119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): VN





#71

Bromoform

Concen: 4.028 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

Instrument :

MSVOA_N

ClientSampleId :

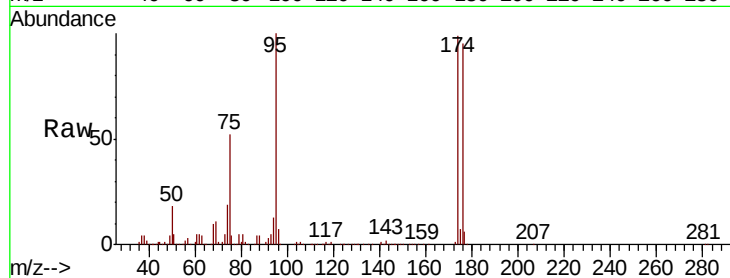
Tot Ion:173 Resp: 3683

Ion Ratio Lower Upper

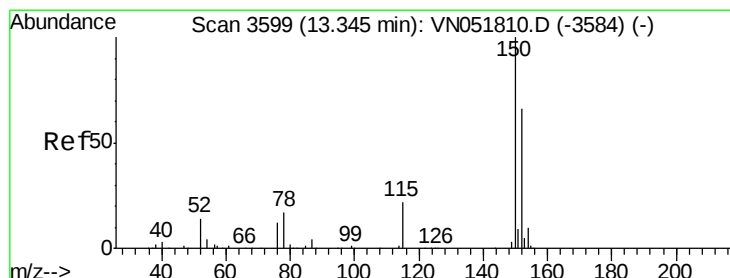
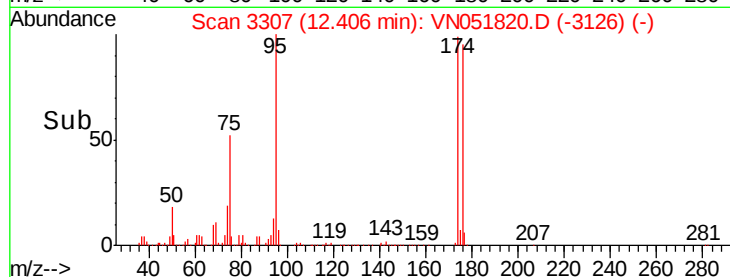
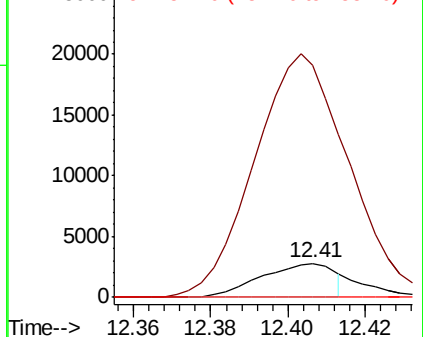
173 100

175 757.5 24.4 73.4#

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

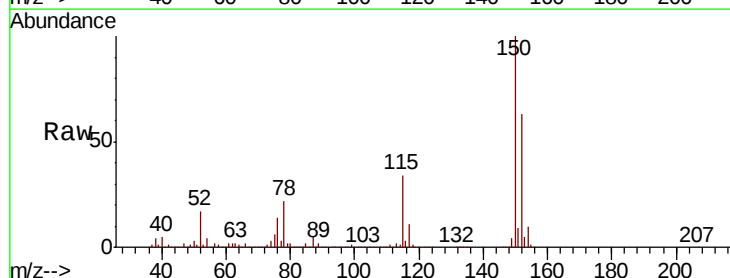
Tgt Ion:152 Resp: 412795

Ion Ratio Lower Upper

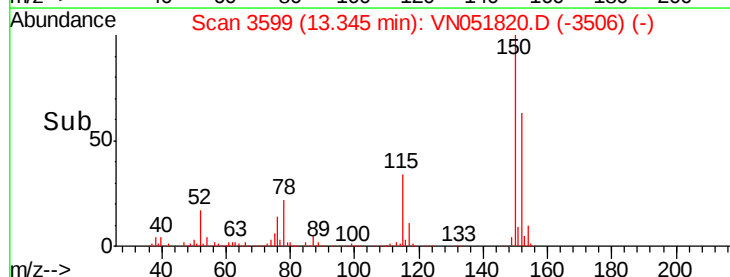
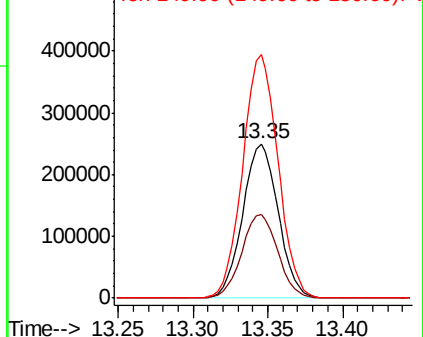
152 100

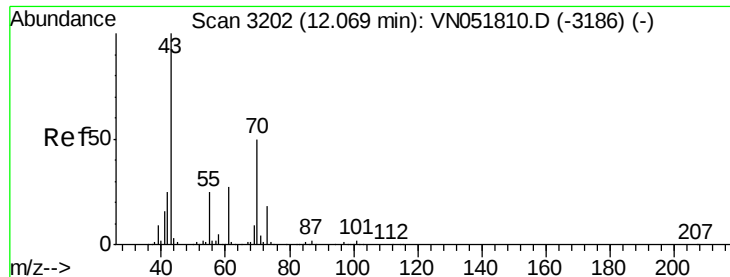
115 54.5 27.8 83.4

150 157.3 0.0 351.4



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





#74

N-amvl acetate

Concen: 0.215 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 1359

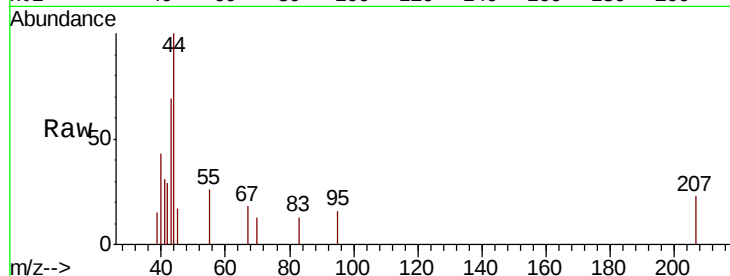
Ion Ratio Lower Upper

43 100

70 17.8 36.2 54.2#

55 31.9 21.8 32.8

61 0.0 20.5 30.7#

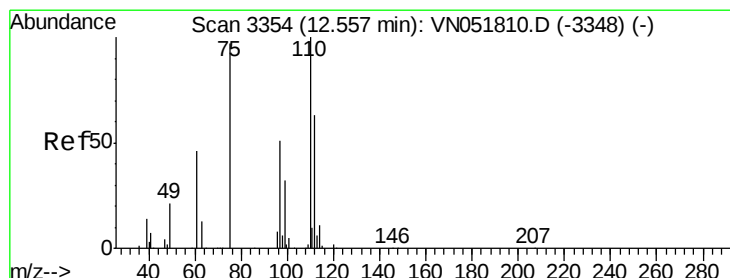
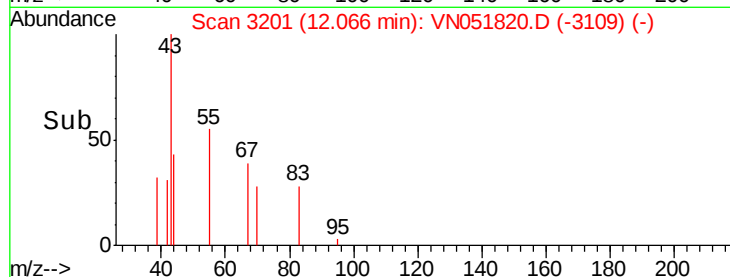
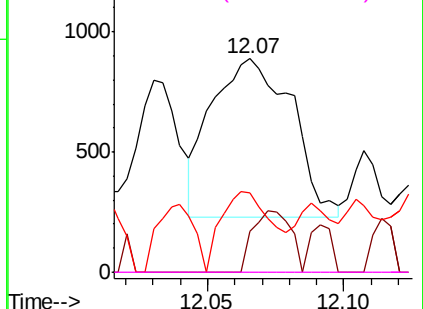


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 48.536 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051820.D

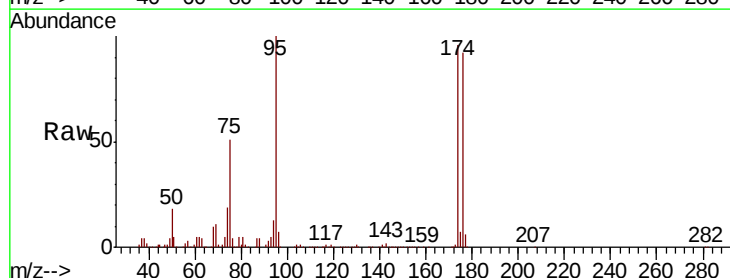
Acq: 11 Oct 2018 18:44

Tgt Ion: 75 Resp: 247261

Ion Ratio Lower Upper

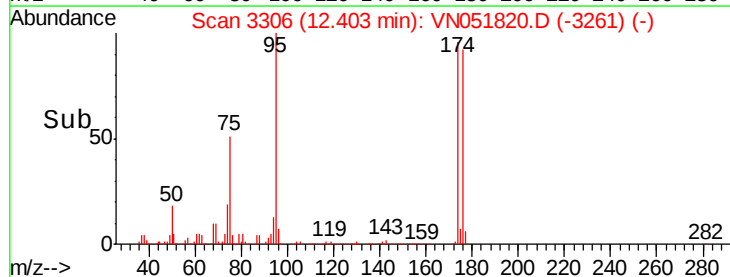
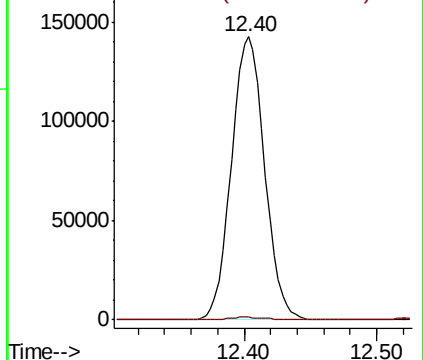
75 100

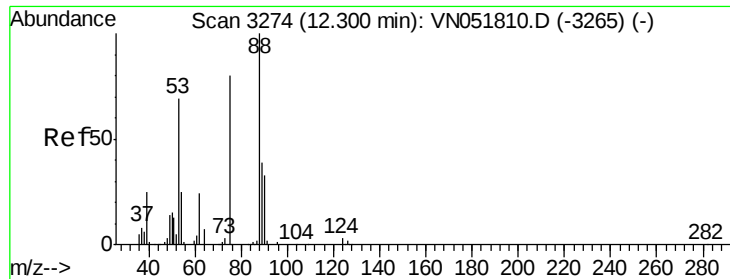
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

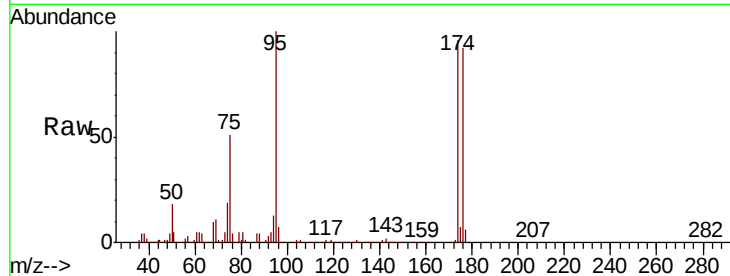




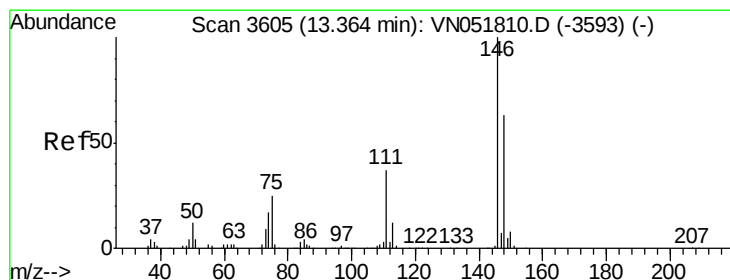
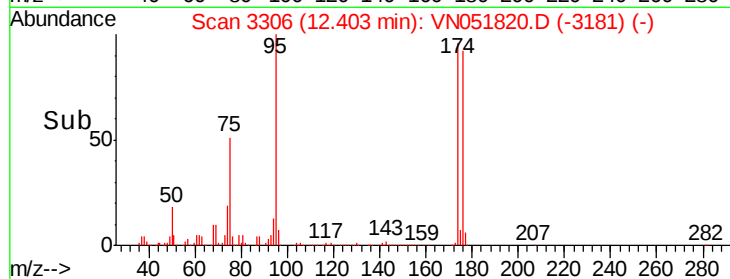
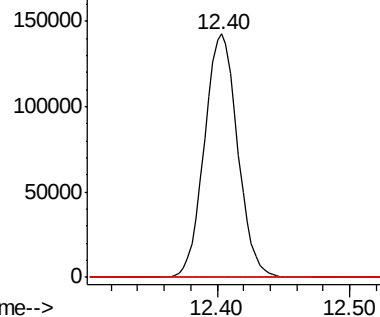
#81
trans-1,4-Dichloro-2-butene
Concen: 137.936 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051820.D
Acq: 11 Oct 2018 18:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 247261
Ion Ratio Lower Upper
75 100
53 0.0 68.9 103.3#
89 0.0 36.1 54.1#

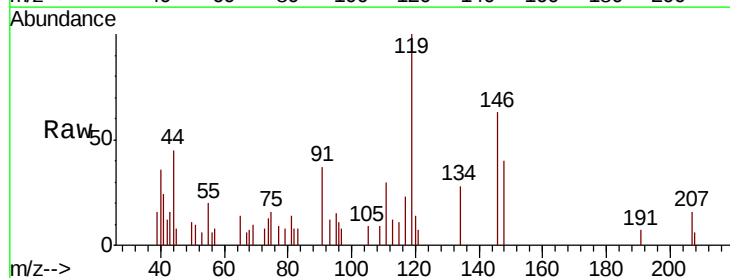


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

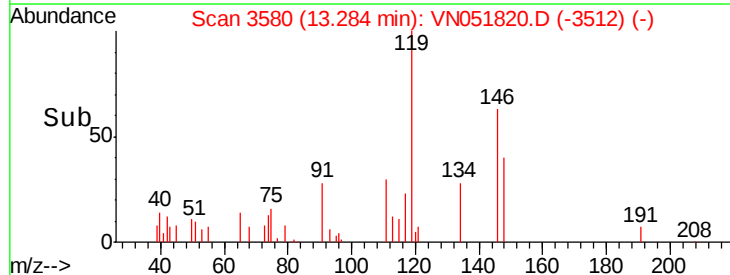
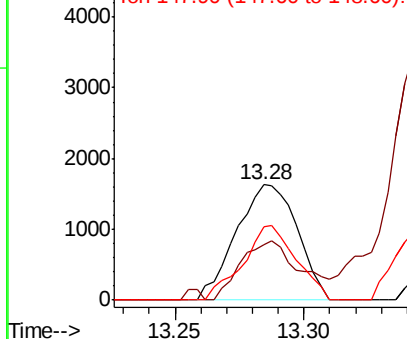


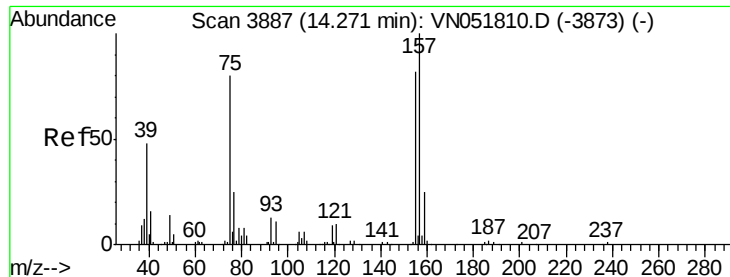
#88
1,4-Dichlorobenzene
Concen: 0.205 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. -0.08 min
Lab File: VN051820.D
Acq: 11 Oct 2018 18:44

Tgt Ion: 146 Resp: 2690
Ion Ratio Lower Upper
146 100
111 50.8 18.8 56.3
148 55.9 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

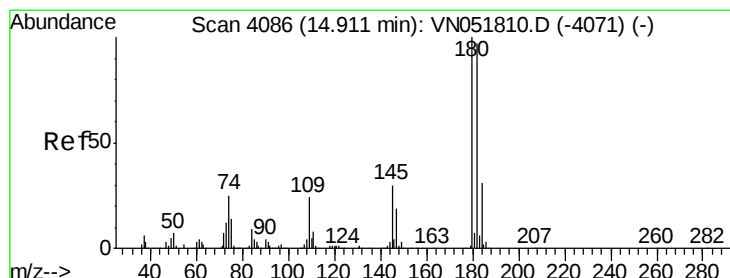
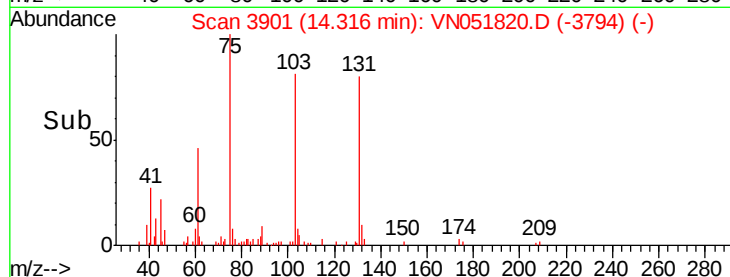
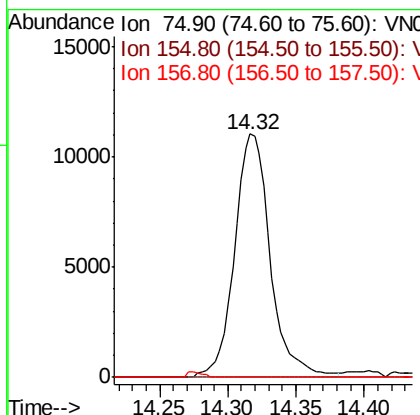
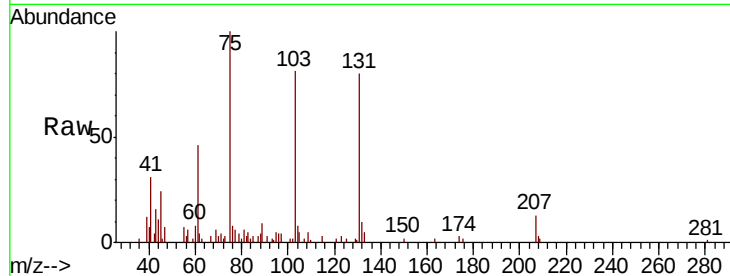




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.475 ug/l
 RT: 14.32 min Scan# 3901
 Delta R.T. 0.05 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

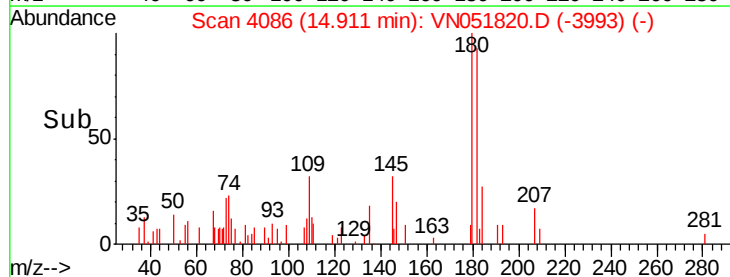
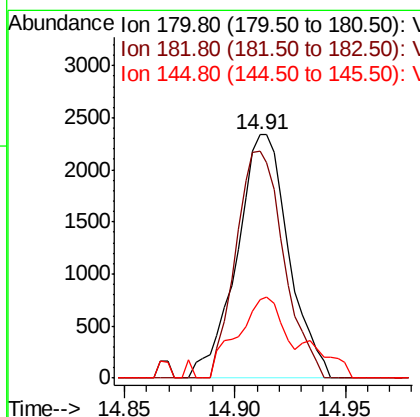
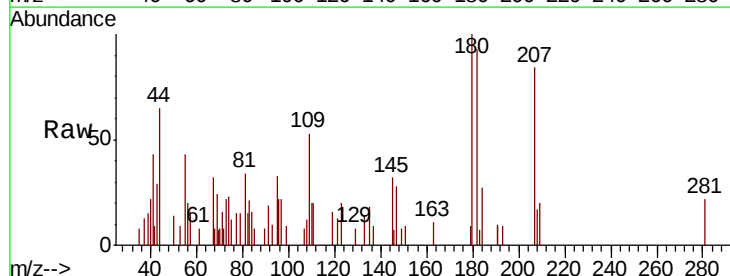
Instrument :
 MSVOA_N
 ClientSampleId :

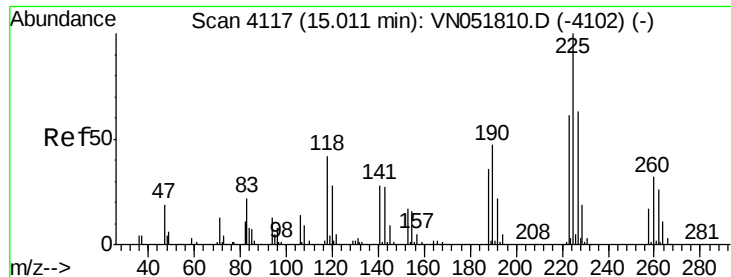
Tot Ion: 75 Resp: 20031
 Ion Ratio Lower Upper
 75 100
 155 0.0 46.4 139.1#
 157 0.0 60.7 182.0#



#93
 1,2,4-Trichlorobenzene
 Concen: 4.165 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

Tgt Ion: 180 Resp: 3818
 Ion Ratio Lower Upper
 180 100
 182 86.2 48.2 144.6
 145 30.0 14.1 42.2





#94

Hexachlorobutadiene

Concen: 0.289 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.01 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

Instrument :

MSVOA_N

ClientSampled :

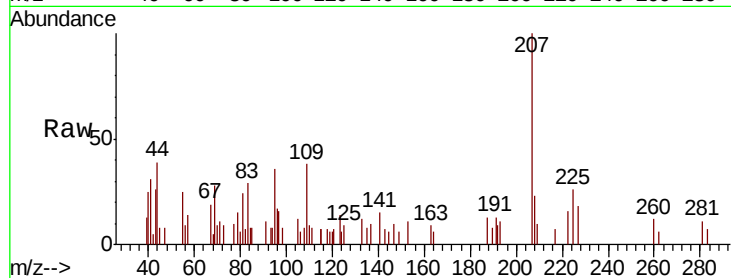
Tot Ion:225 Resp: 1226

Ion Ratio Lower Upper

225 100

223 65.3 31.3 93.8

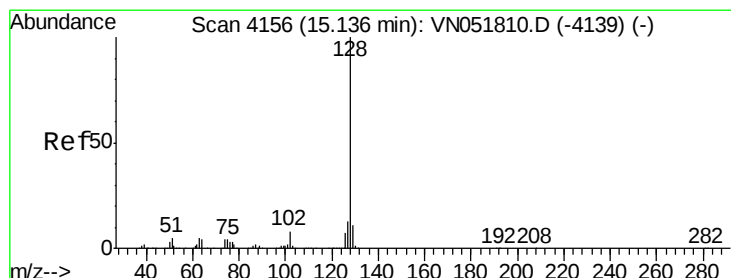
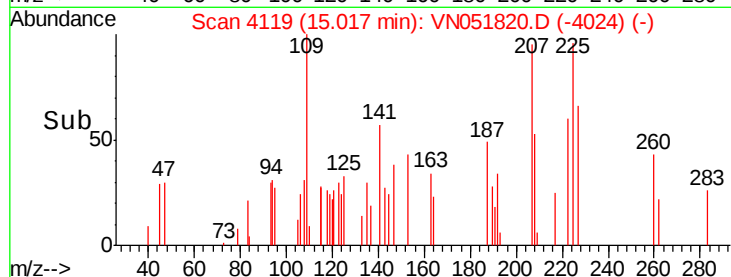
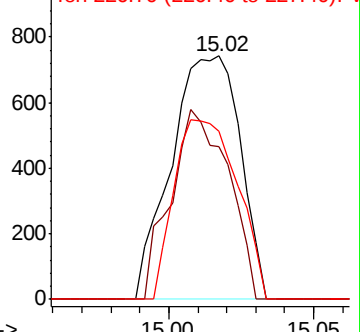
227 67.6 32.0 96.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 5.173 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051820.D

Acq: 11 Oct 2018 18:44

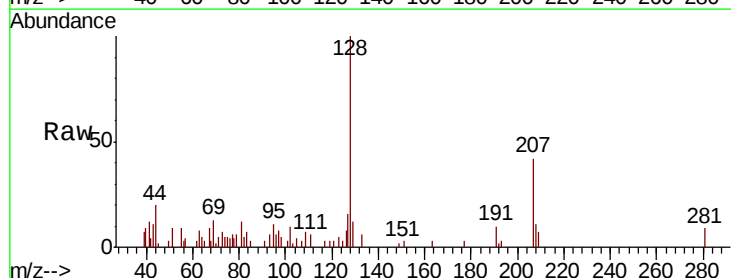
Tgt Ion:128 Resp: 12953

Ion Ratio Lower Upper

128 100

127 15.3 10.5 15.7

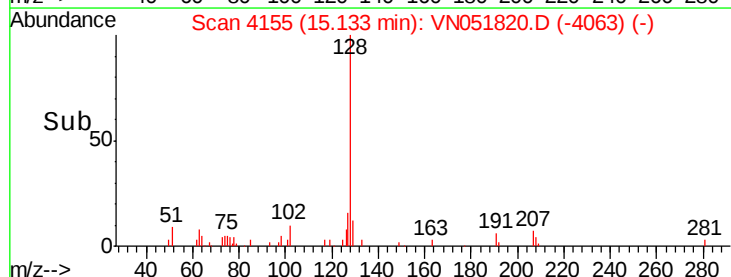
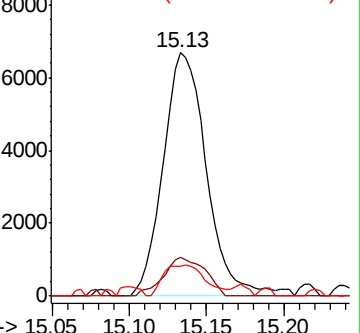
129 12.3 8.7 13.1

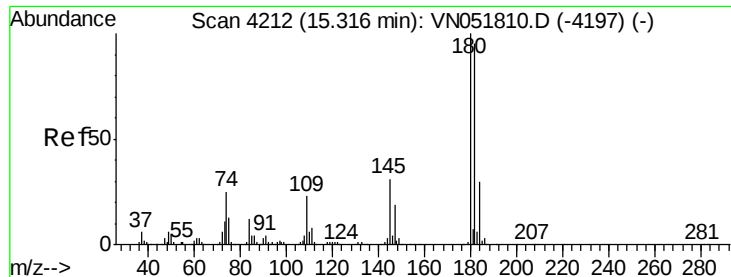


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

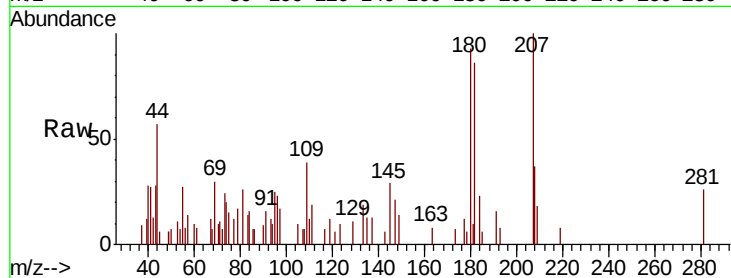




#96
 1,2,3-Trichlorobenzene
 Concen: 3.443 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN051820.D
 Acq: 11 Oct 2018 18:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.8	48.0	144.2
145	42.4	15.2	45.6



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

