

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112718\
 Data File : VN052500.D
 Acq On : 28 Nov 2018 1:38
 Operator : MD\SY
 Sample : J6086-01 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: Nov 28 06:20:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	172217	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	987979	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	816339	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	357304	30.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.50%
60) 4-Bromofluorobenzene	12.40	95	329112	26.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.90%
63) Toluene-d8	10.09	98	1154538	30.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.67%

Target Compounds

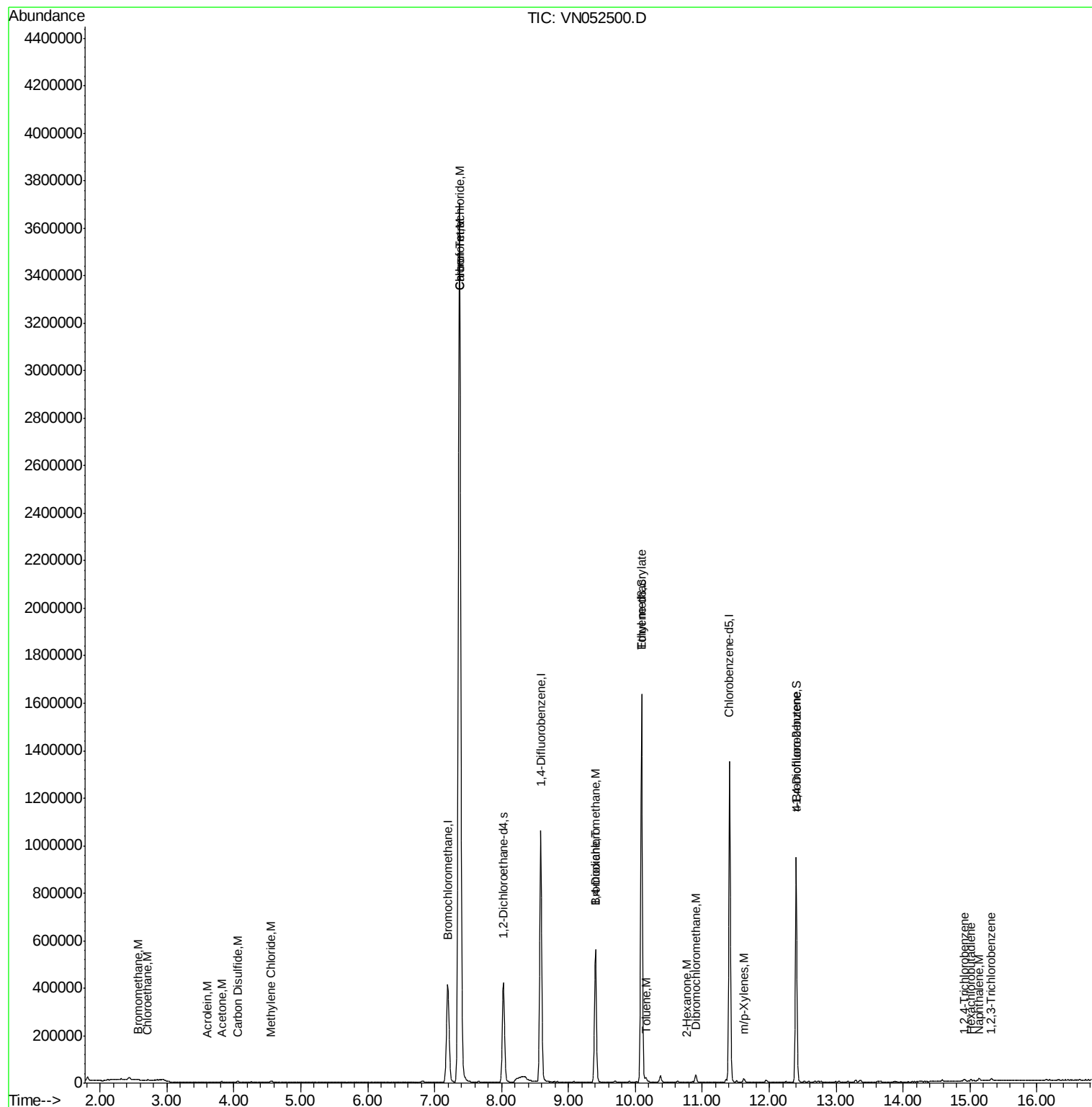
					Ovalue	
5) Bromomethane	2.58	94	1546	0.207	ug/l	94
6) Chloroethane	2.72	64	1792	0.230	ug/l #	63
13) Acrolein	3.60	56	392	0.407	ug/l #	73
15) Acetone	3.82	58	1008	1.113	ug/l #	64
16) Carbon Disulfide	4.06	76	7469	0.244	ug/l	98
18) Methylene Chloride	4.56	84	2371	0.212	ug/l #	91
25) Chloroform	7.37	83	3983560	204.688	ug/l	99
33) Carbon Tetrachloride	7.37	117	46679	3.398	ug/l	98
41) Bromodichloromethane	9.40	83	397202	27.360	ug/l	97
45) 1,4-Dioxane	9.40	88	282	3.424	ug/l #	31
51) Ethyl methacrylate	10.10	69	3517	0.301	ug/l	95
53) Dibromochloromethane	10.90	129	17341	1.691	ug/l	94
59) 2-Hexanone	10.76	43	1410	0.261	ug/l #	65
62) Toluene	10.16	91	11037	0.245	ug/l	99
67) m/p-Xylenes	11.62	106	5089	0.282	ug/l	98
77) t-1,4-Dichloro-2-butene	12.40	75	156907	57.002	ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	2830	0.304	ug/l	98
90) Hexachlorobutadiene	15.01	225	1264	0.207	ug/l	70
91) Naphthalene	15.14	128	8134	0.433	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.32	180	3319	0.387	ug/l	98

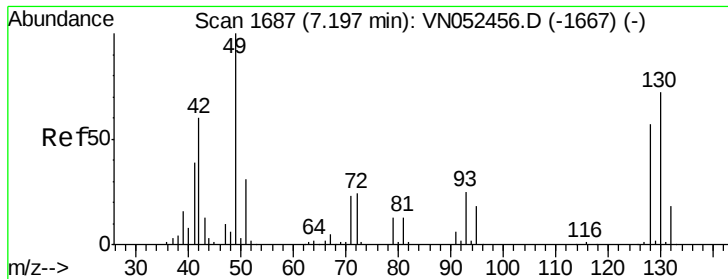
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

Instrument :

MSVOA_N

ClientSampled :

14B-1

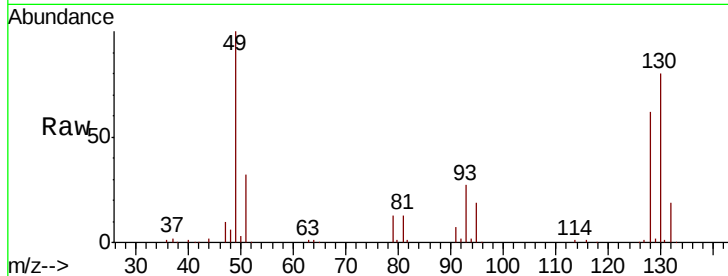
Tot Ion:128 Resp: 172217

Ion Ratio Lower Upper

128 100

49 162.4 0.0 431.8

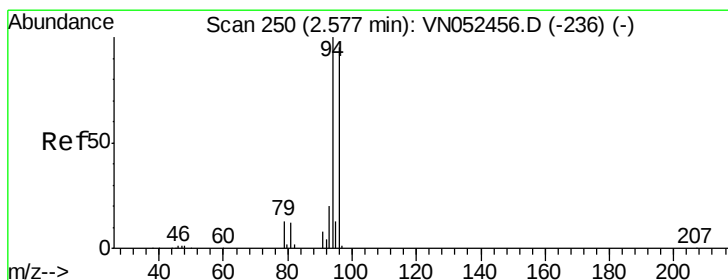
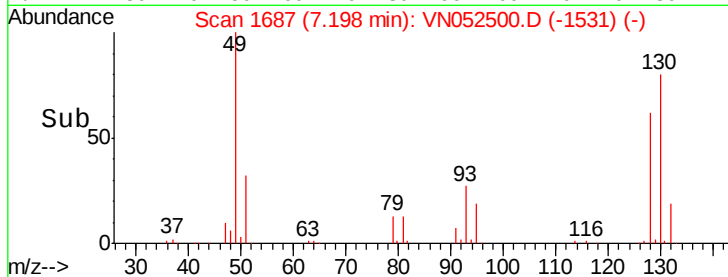
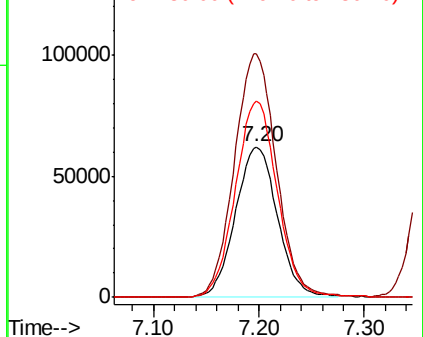
130 130.4 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.207 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052500.D

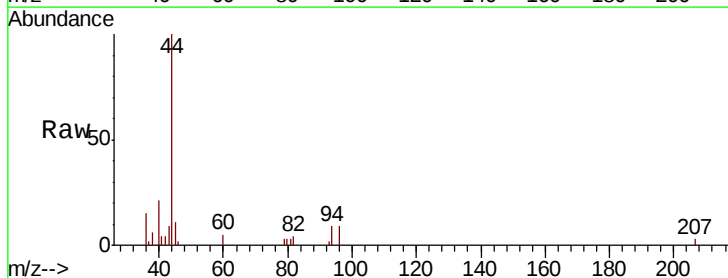
Acq: 28 Nov 2018 1:38

Tgt Ion: 94 Resp: 1546

Ion Ratio Lower Upper

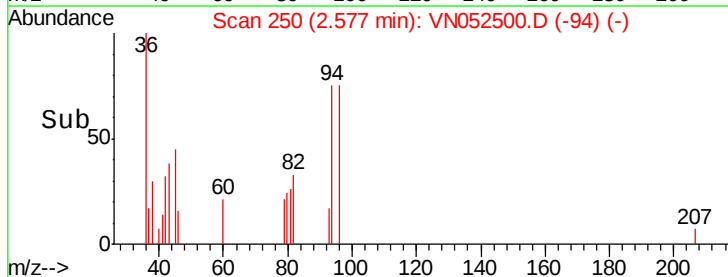
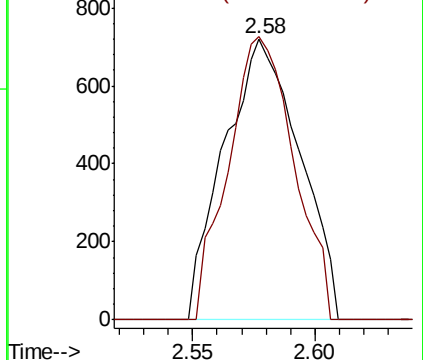
94 100

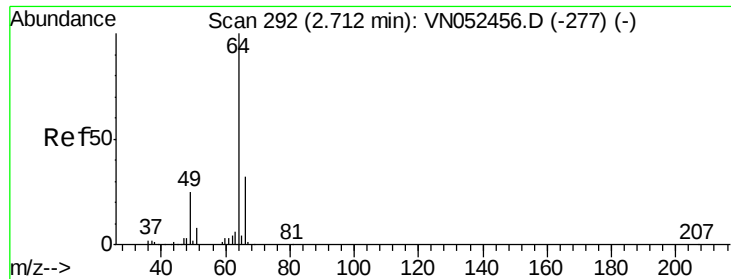
96 100.8 76.2 114.2



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

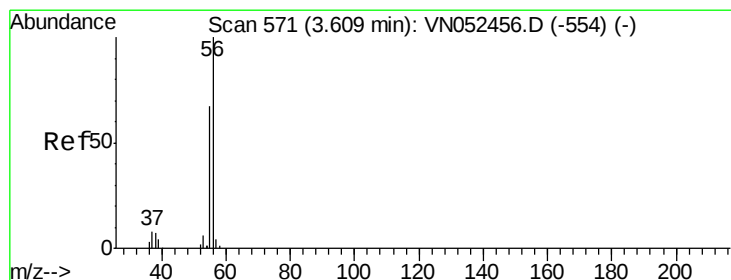
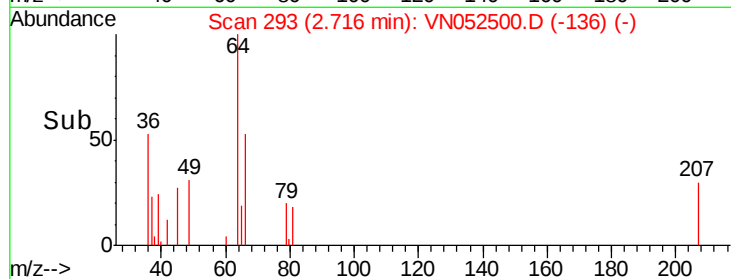
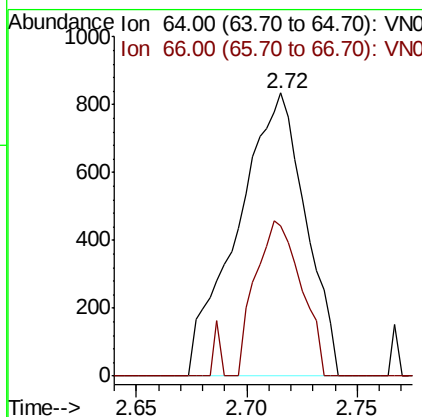
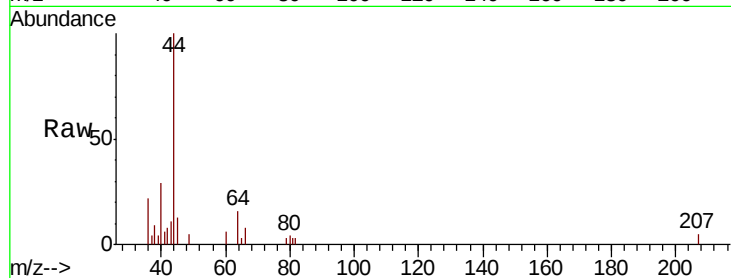




#6
Chloroethane
Concen: 0.230 ug/l
RT: 2.72 min Scan# 293
Delta R.T. 0.00 min
Lab File: VN052500.D
Acq: 28 Nov 2018 1:38

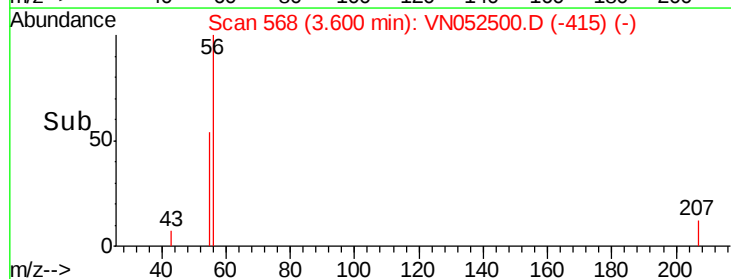
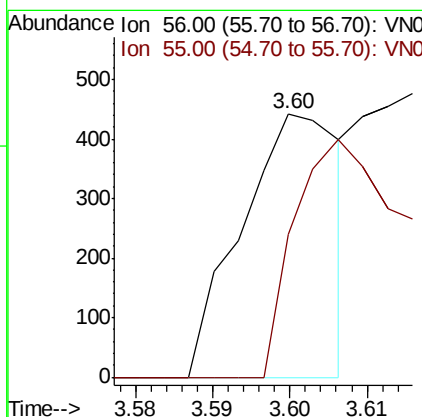
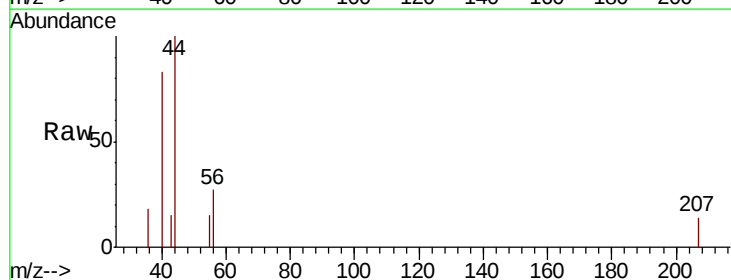
Instrument :
MSVOA_N
ClientSampleId :
14B-1

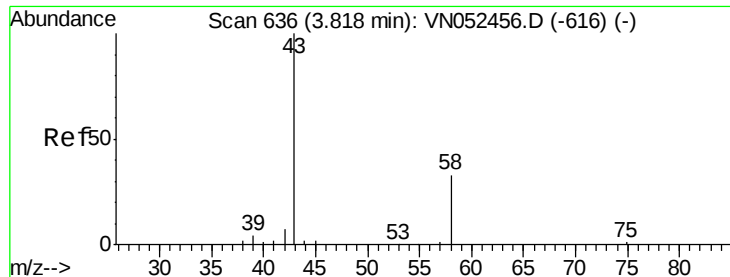
Tot Ion: 64 Resp: 1792
Ion Ratio Lower Upper
64 100
66 52.9 25.6 38.4#



#13
Acrolein
Concen: 0.407 ug/l
RT: 3.60 min Scan# 568
Delta R.T. -0.01 min
Lab File: VN052500.D
Acq: 28 Nov 2018 1:38

Tgt Ion: 56 Resp: 392
Ion Ratio Lower Upper
56 100
55 92.9 56.7 85.1#





#15

Acetone

Concen: 1.113 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

Instrument :

MSVOA_N

ClientSampled :

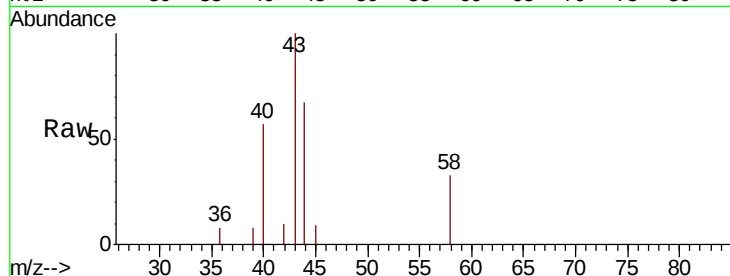
14B-1

Tot Ion: 58 Resp: 1008

Ion Ratio Lower Upper

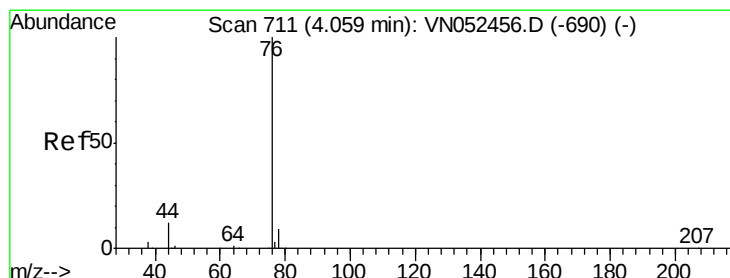
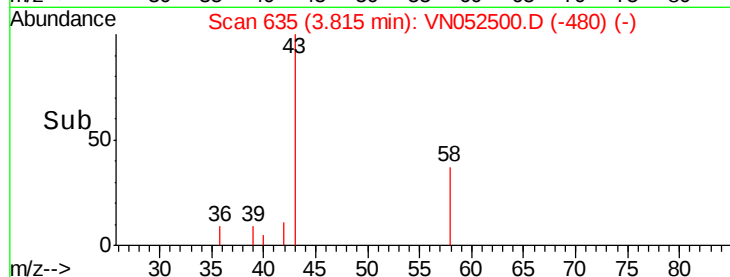
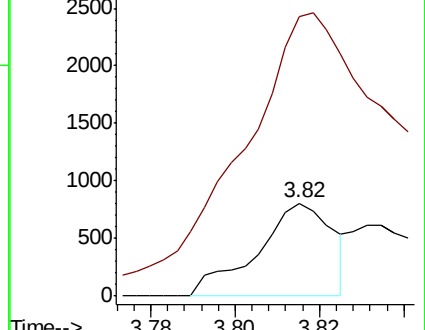
58 100

43 233.0 243.6 365.4#



Abundance Ion 58.00 (57.70 to 58.70): VN052500.D (-480) (-)

Ion 43.00 (42.70 to 43.70): VN052500.D (-480) (-)



#16

Carbon Disulfide

Concen: 0.244 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052500.D

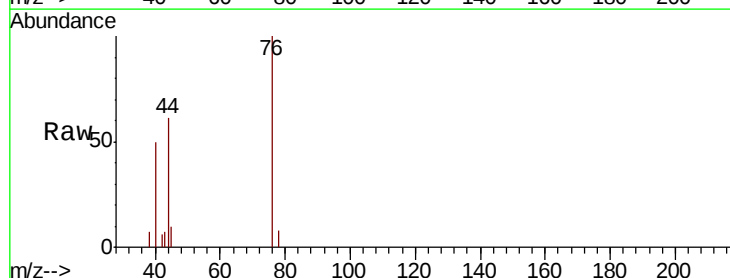
Acq: 28 Nov 2018 1:38

Tgt Ion: 76 Resp: 7469

Ion Ratio Lower Upper

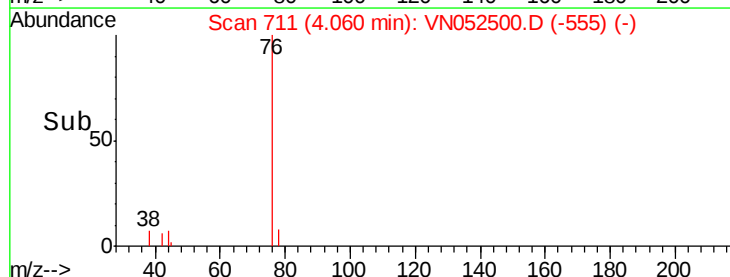
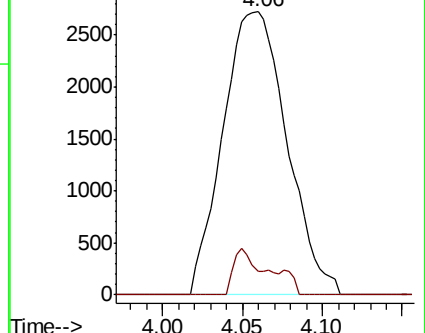
76 100

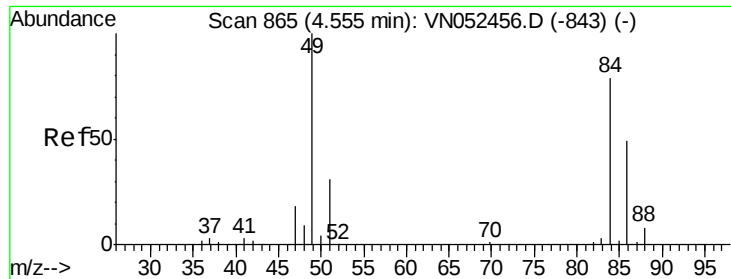
78 8.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN052500.D (-555) (-)

Ion 78.00 (77.70 to 78.70): VN052500.D (-555) (-)

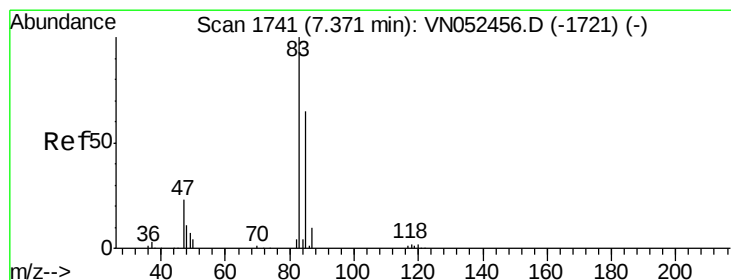
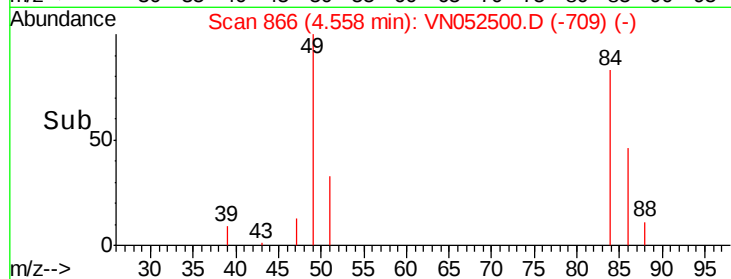
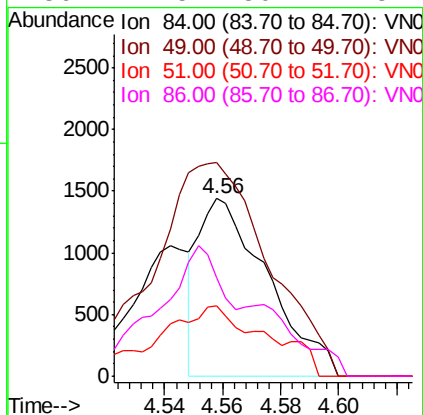
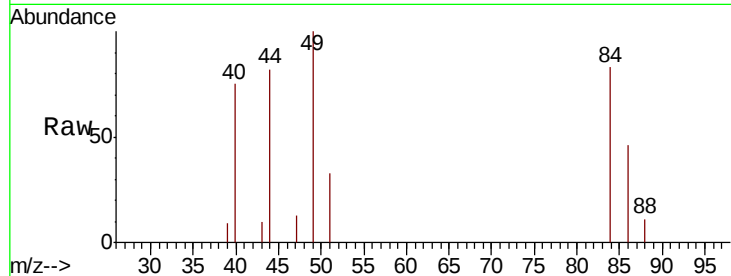




#18
Methvlene Chloride
Concen: 0.212 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052500.D
Acq: 28 Nov 2018 1:38

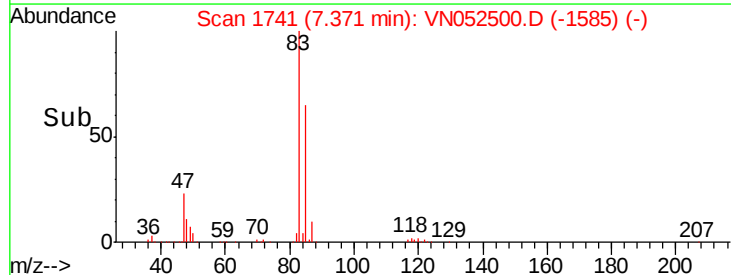
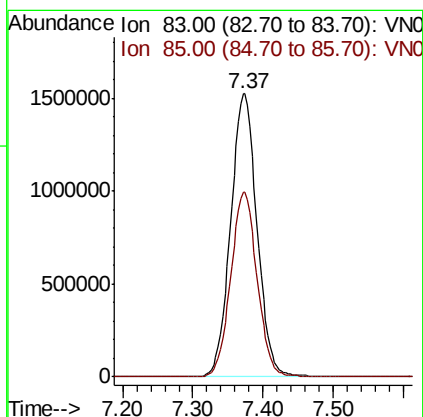
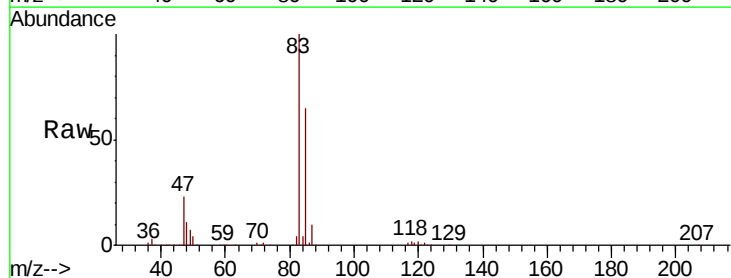
Instrument :
MSVOA_N
ClientSampleId :
14B-1

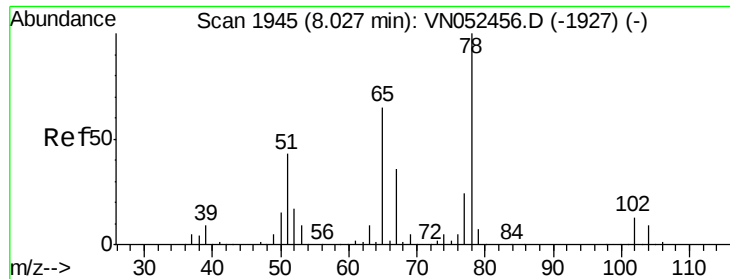
Tot Ion: 84 Resp: 2371
Ion Ratio Lower Upper
84 100
49 120.4 101.4 152.0
51 39.6 31.7 47.5
86 44.5 50.1 75.1#



#25
Chloroform
Concen: 204.688 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN052500.D
Acq: 28 Nov 2018 1:38

Tgt Ion: 83 Resp: 3983560
Ion Ratio Lower Upper
83 100
85 65.4 51.7 77.5





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

Instrument :

MSVOA_N

ClientSampleId :

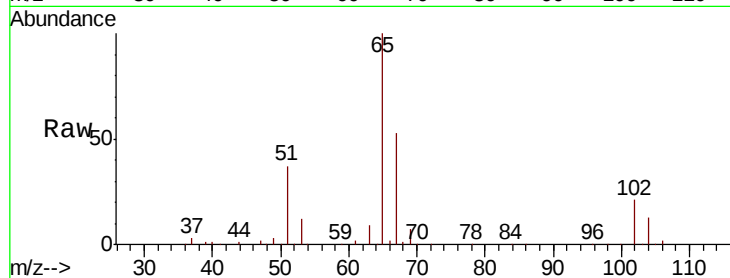
14B-1

Tot Ion: 65 Resp: 357304

Ion Ratio Lower Upper

65 100

67 54.6 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.03

150000

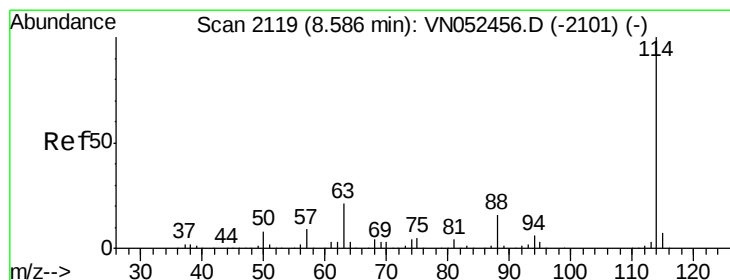
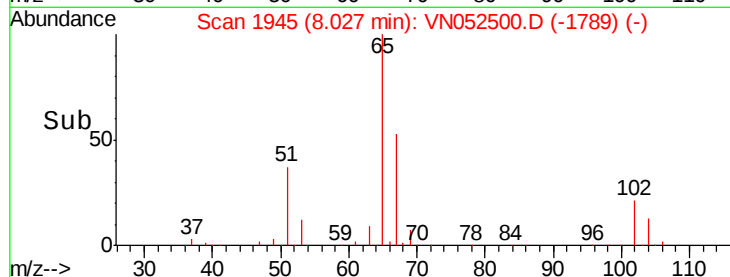
100000

50000

0

8.00 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

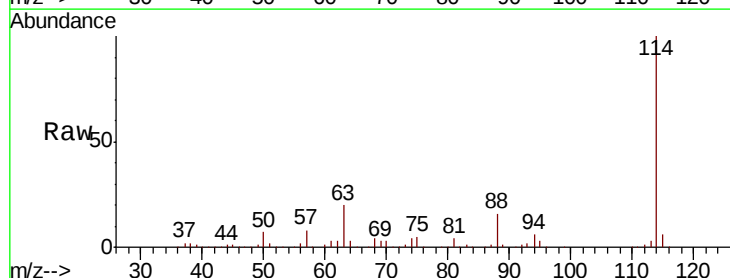
Tgt Ion: 114 Resp: 987979

Ion Ratio Lower Upper

114 100

63 20.5 16.9 25.3

88 15.5 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

600000

500000

400000

300000

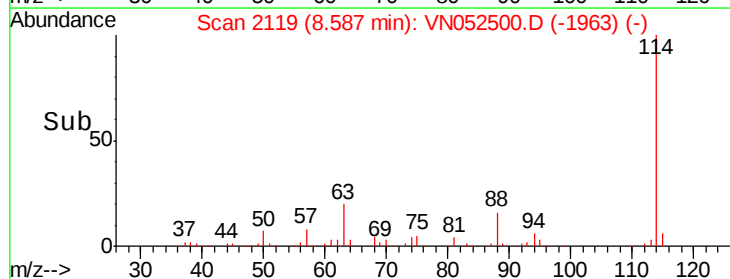
200000

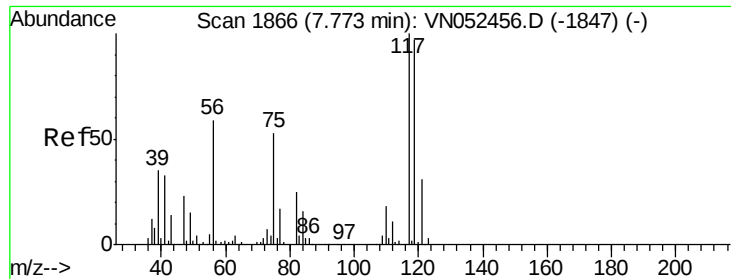
100000

0

8.50 8.60 8.70

Time-->





#33

Carbon Tetrachloride

Concen: 3.398 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.40 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

Instrument :

MSVOA_N

ClientSampleId :

14B-1

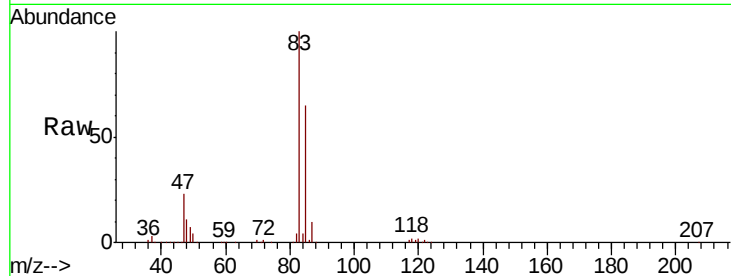
Tot Ion:117 Resp: 46679

Ion Ratio Lower Upper

117 100

119 99.3 77.3 115.9

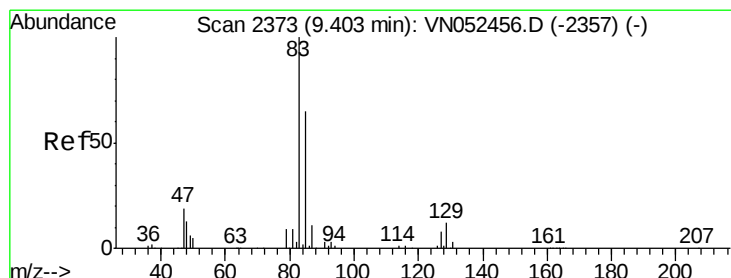
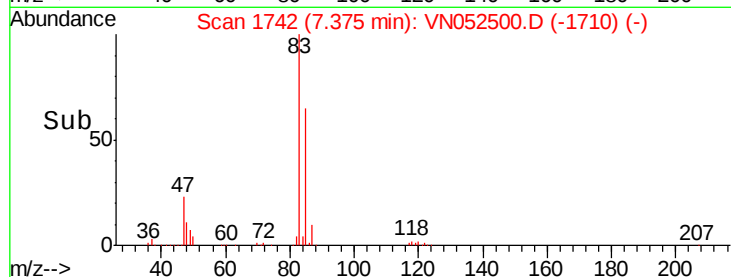
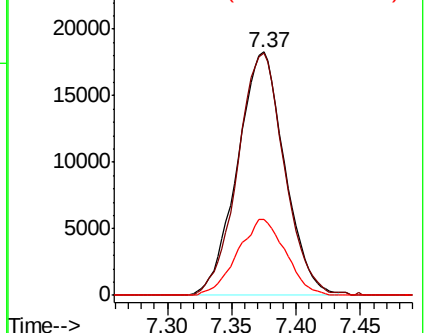
121 31.2 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#41

Bromodichloromethane

Concen: 27.360 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

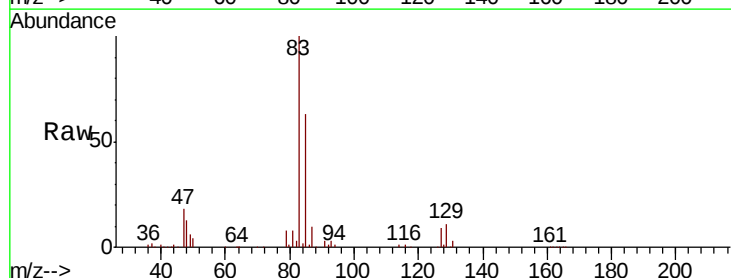
Tgt Ion: 83 Resp: 397202

Ion Ratio Lower Upper

83 100

85 63.3 52.4 78.6

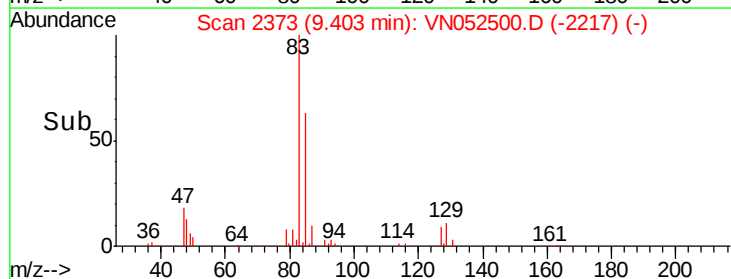
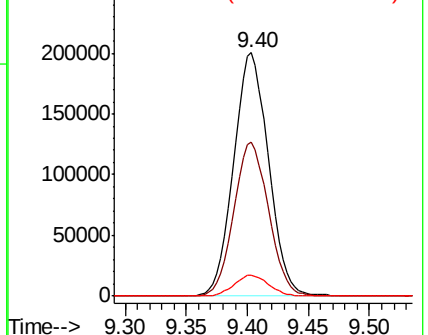
127 8.8 6.6 9.8

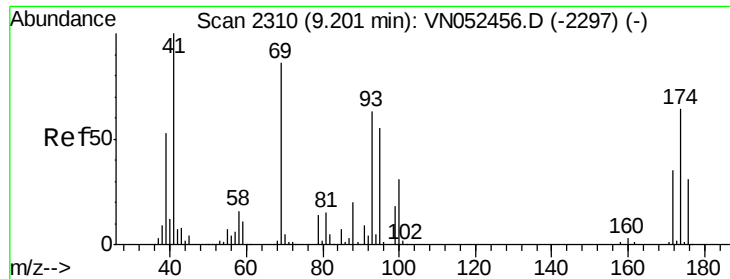


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 127.00 (126.70 to 127.70): V

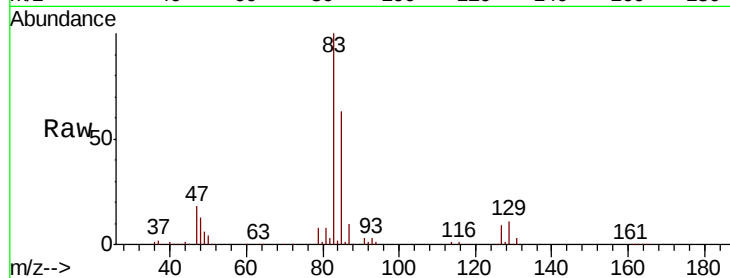




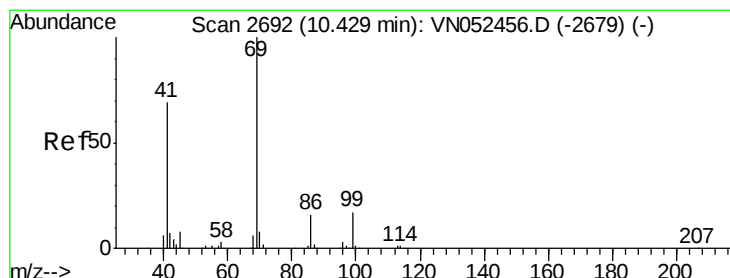
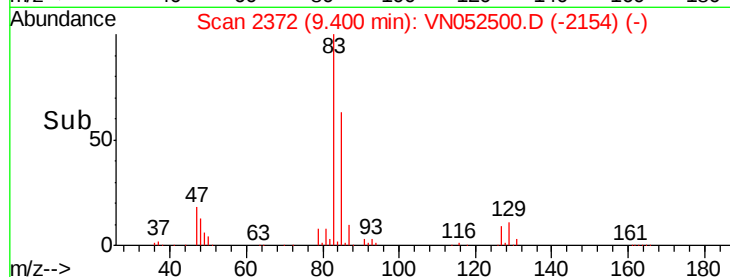
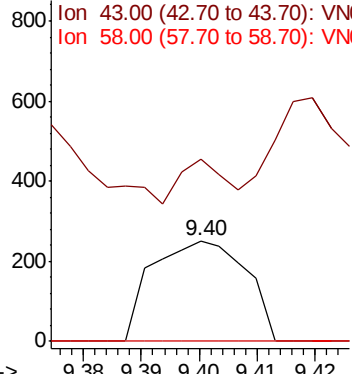
#45
 1,4-Dioxane
 Concen: 3.424 ug/l
 RT: 9.40 min Scan# 2372
 Delta R.T. 0.20 min
 Lab File: VN052500.D
 Acq: 28 Nov 2018 1:38

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Tot Ion: 88 Resp: 282
 Ion Ratio Lower Upper
 88 100
 43 20.6 29.5 44.3#
 58 0.0 61.5 92.3#

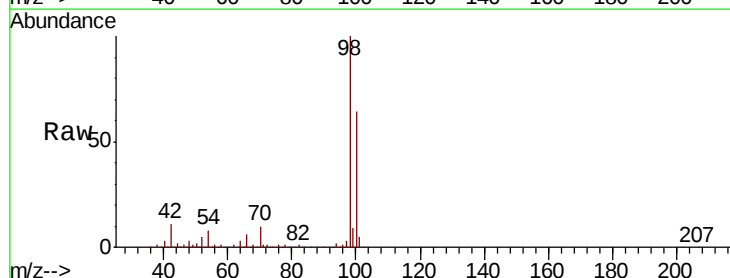


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

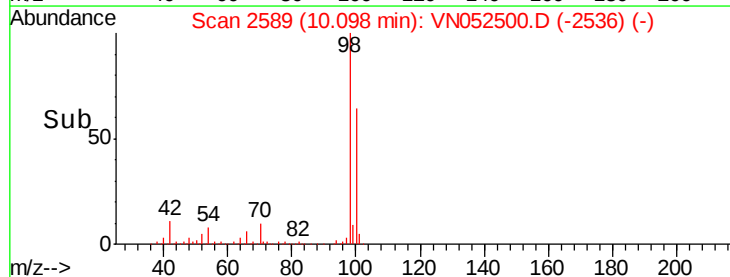
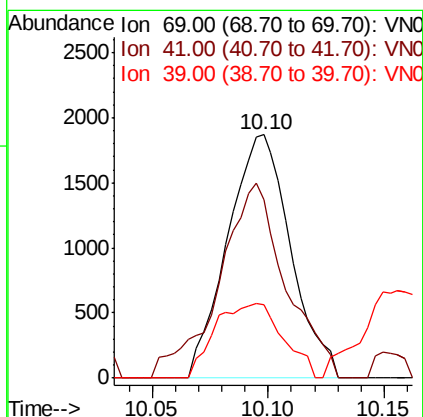


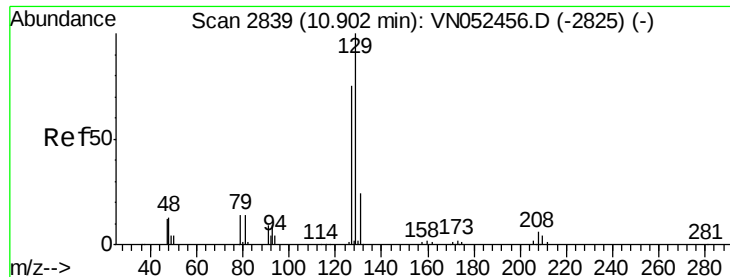
#51
 Ethyl methacrylate
 Concen: 0.301 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.33 min
 Lab File: VN052500.D
 Acq: 28 Nov 2018 1:38

Tgt Ion: 69 Resp: 3517
 Ion Ratio Lower Upper
 69 100
 41 73.4 34.4 103.3
 39 29.9 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#53

Dibromochloromethane

Concen: 1.691 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

Instrument :

MSVOA_N

ClientSampled :

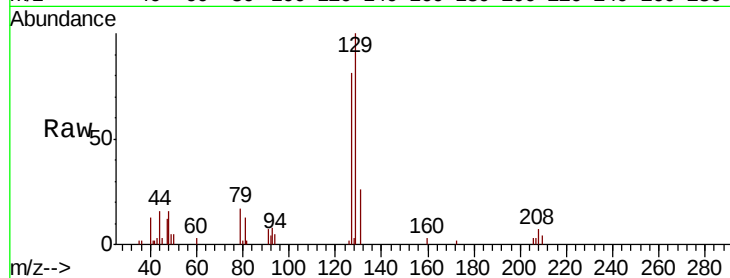
14B-1

Tot Ion:129 Resp: 17341

Ion Ratio Lower Upper

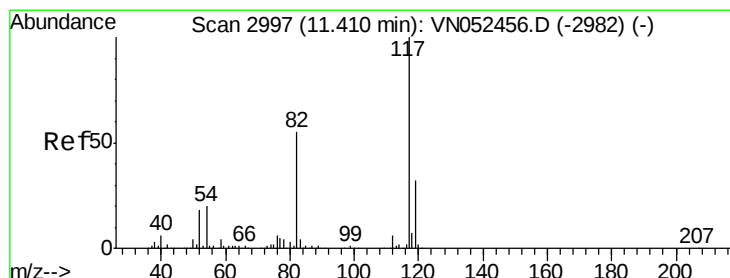
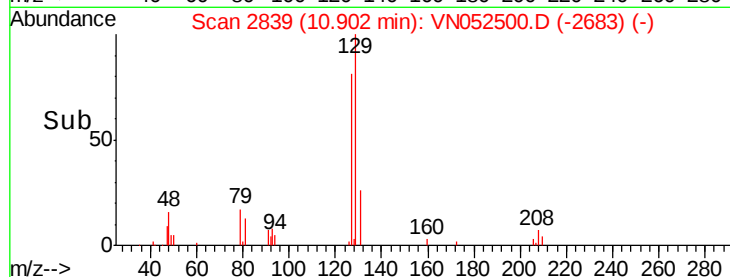
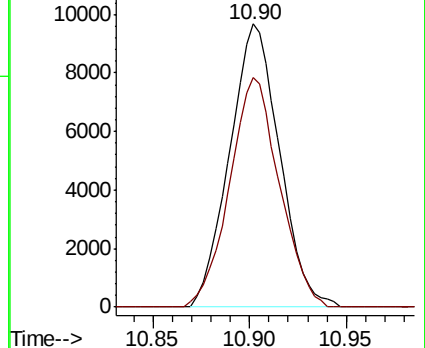
129 100

127 80.7 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

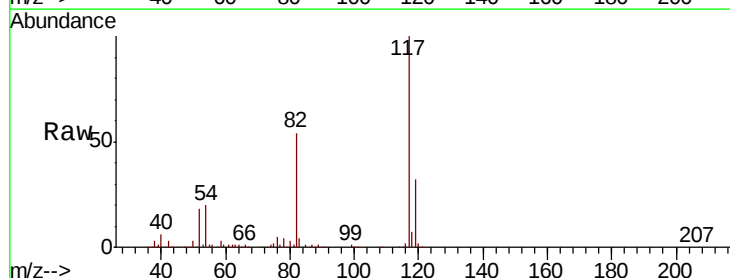
Tgt Ion:117 Resp: 816339

Ion Ratio Lower Upper

117 100

82 53.8 44.2 66.2

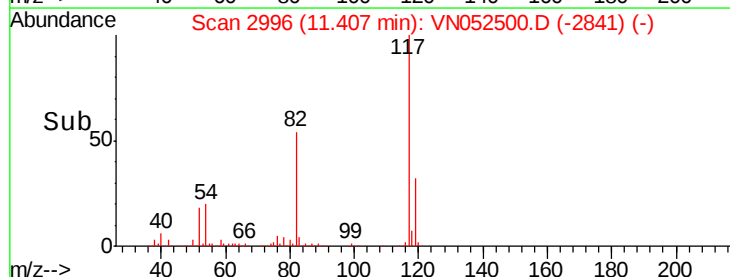
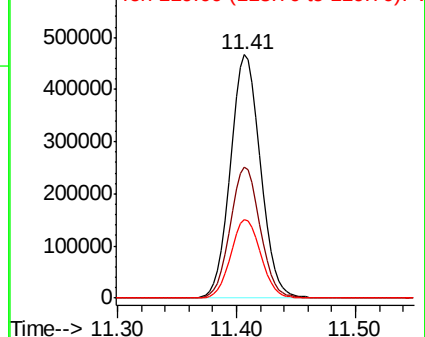
119 32.4 25.4 38.2

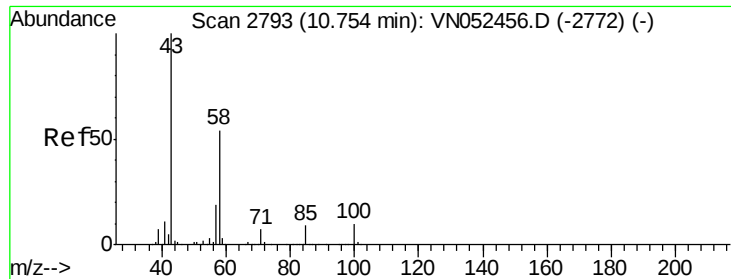


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

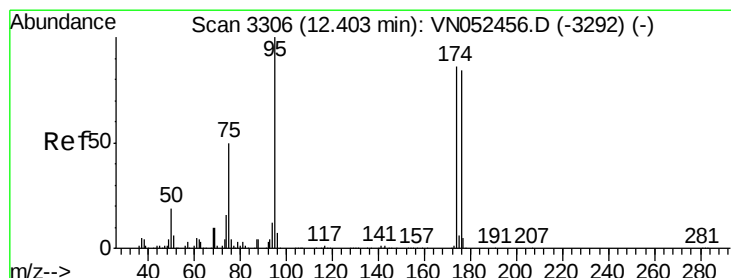
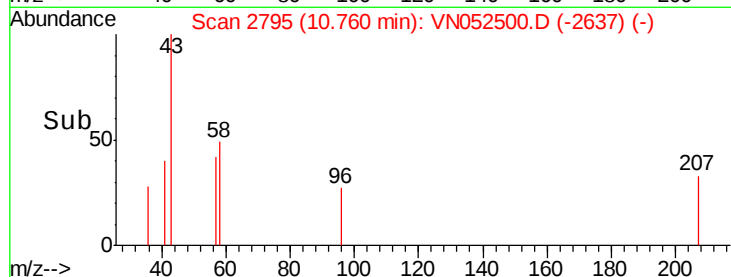
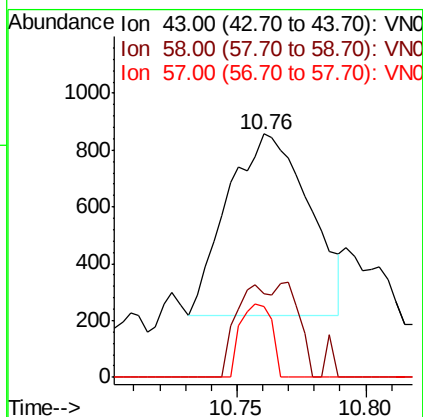
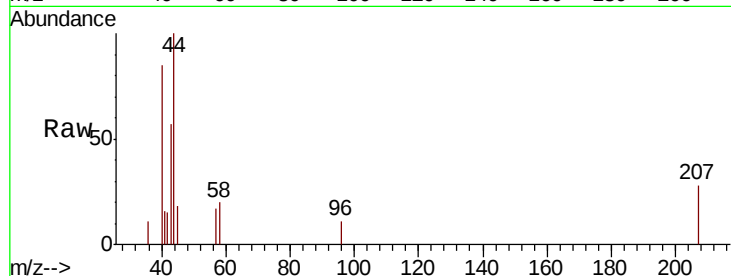




#59
2-Hexanone
Concen: 0.261 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN052500.D
Acq: 28 Nov 2018 1:38

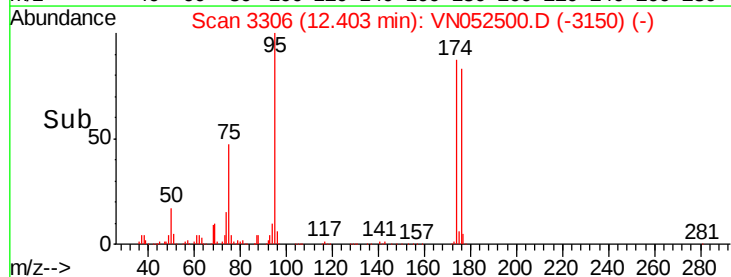
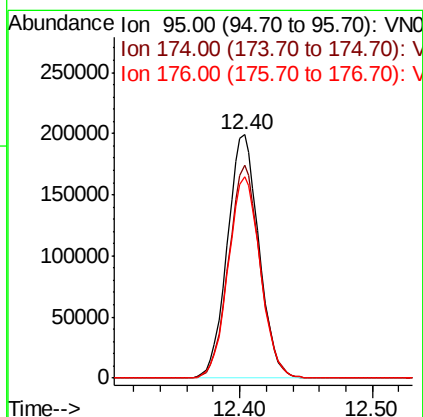
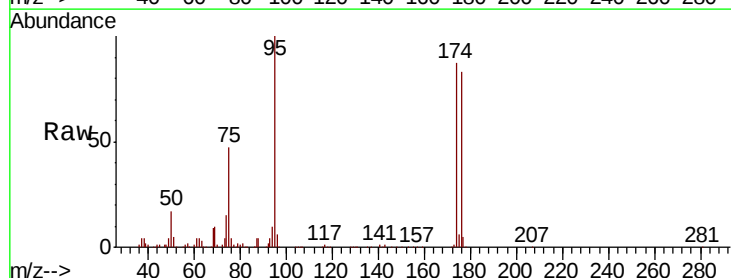
Instrument :
MSVOA_N
ClientSampled :
14B-1

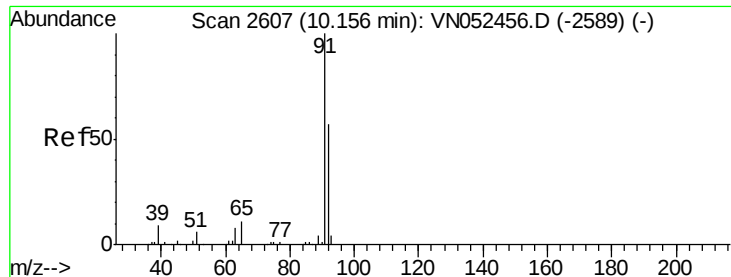
Tot Ion: 43 Resp: 1410
Ion Ratio Lower Upper
43 100
58 22.4 43.2 64.8#
57 15.4 14.9 22.3



#60
4-Bromofluorobenzene
Concen: 0.261 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052500.D
Acq: 28 Nov 2018 1:38

Tgt Ion: 95 Resp: 329112
Ion Ratio Lower Upper
95 100
174 87.0 67.9 101.9
176 84.1 66.4 99.6





#62

Toluene

Concen: 0.245 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

Instrument :

MSVOA_N

ClientSampled :

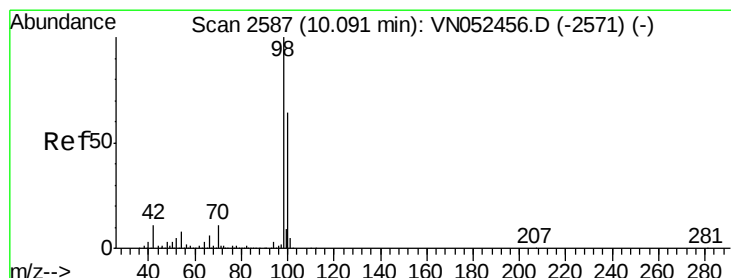
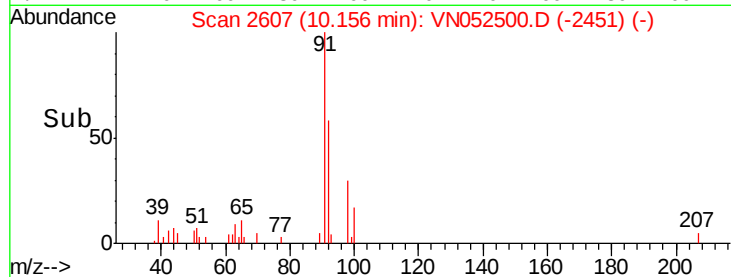
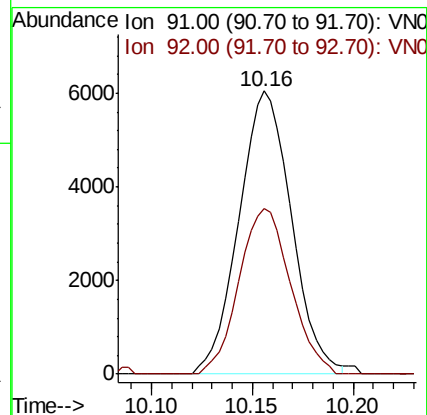
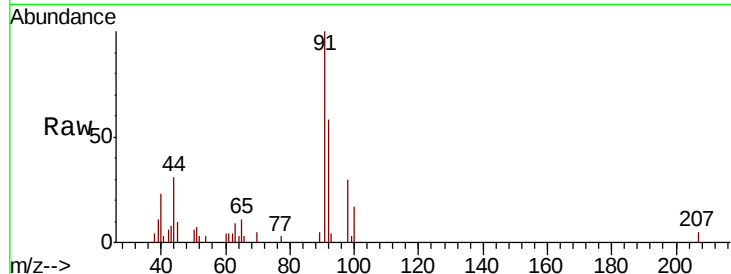
14B-1

Tot Ion: 91 Resp: 11037

Ion Ratio Lower Upper

91 100

92 57.4 45.4 68.2



#63

Toluene-d8

Concen: 0.245 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052500.D

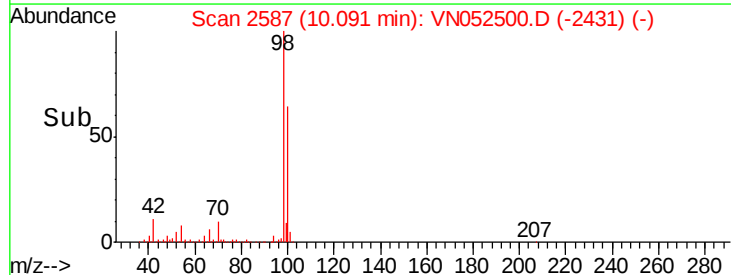
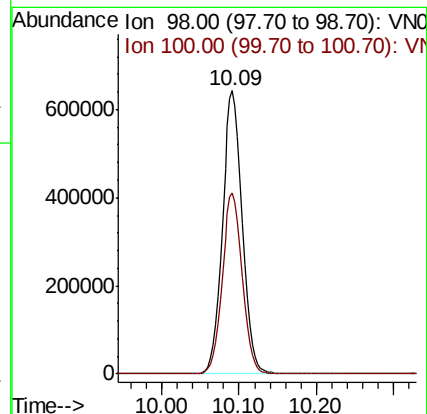
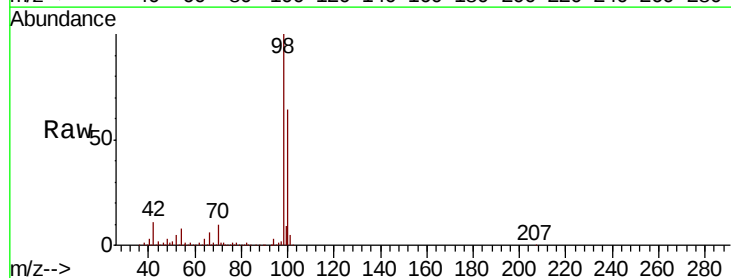
Acq: 28 Nov 2018 1:38

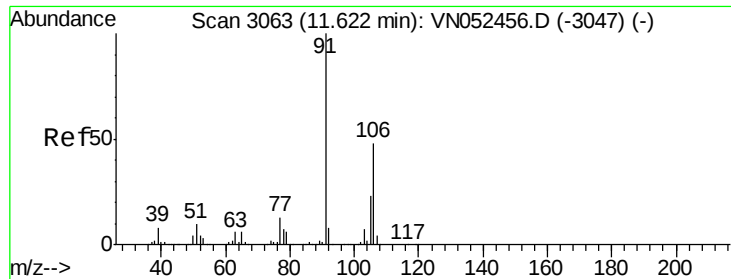
Tgt Ion: 98 Resp: 1154538

Ion Ratio Lower Upper

98 100

100 64.4 51.1 76.7

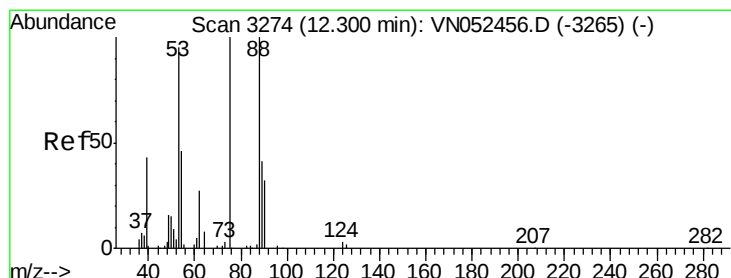
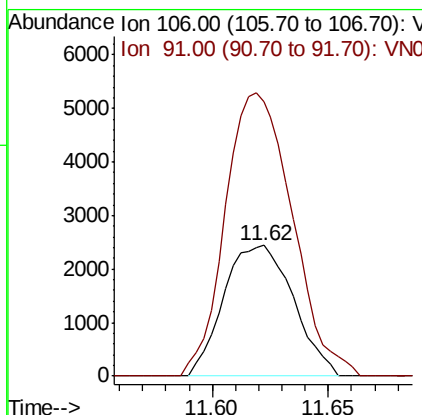
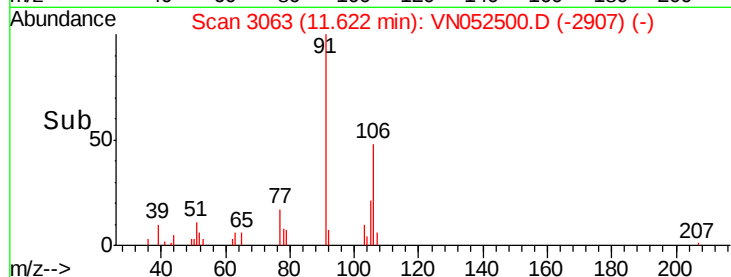
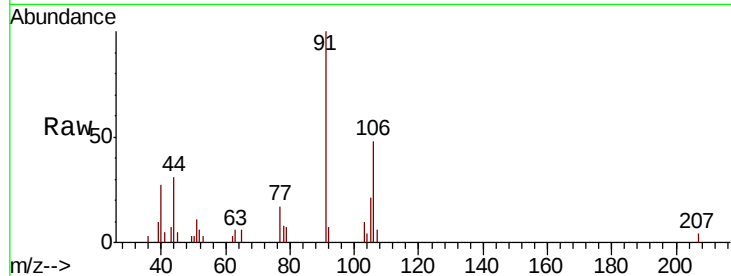




#67
m/p-Xvlenes
Concen: 0.282 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052500.D
Acq: 28 Nov 2018 1:38

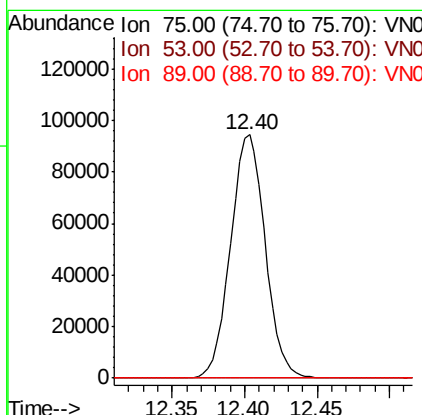
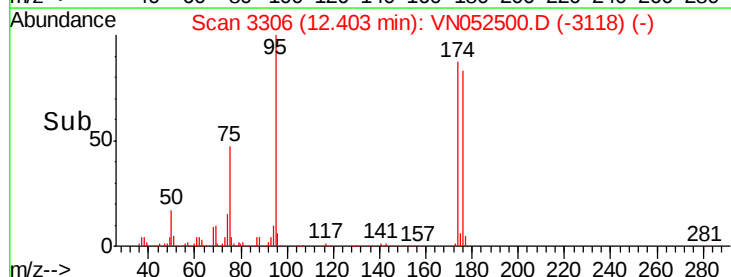
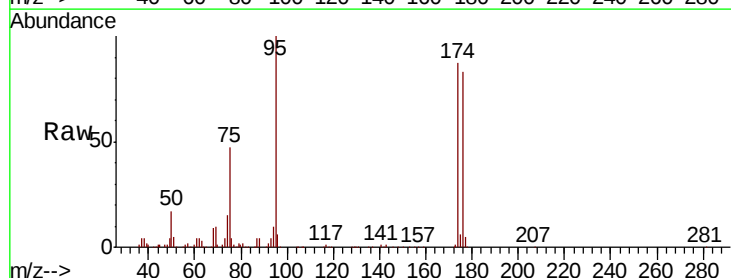
Instrument :
MSVOA_N
ClientSampleId :
14B-1

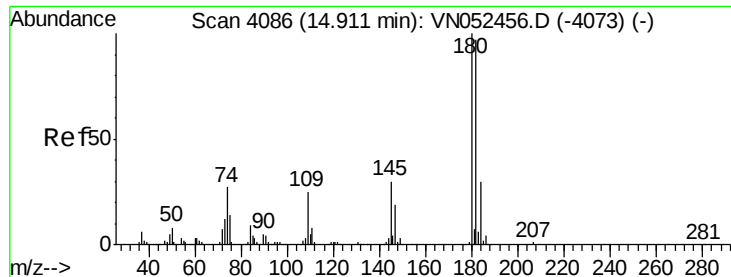
Tot Ion:106 Resp: 5089
Ion Ratio Lower Upper
106 100
91 208.7 163.9 245.9



#77
t-1,4-Dichloro-2-butene
Concen: 57.002 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN052500.D
Acq: 28 Nov 2018 1:38

Tgt Ion: 75 Resp: 156907
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.6#
89 0.0 21.7 65.1#

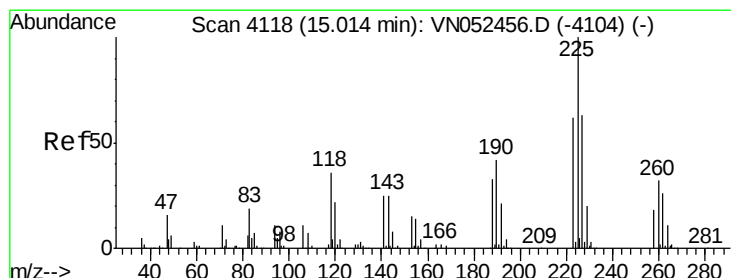
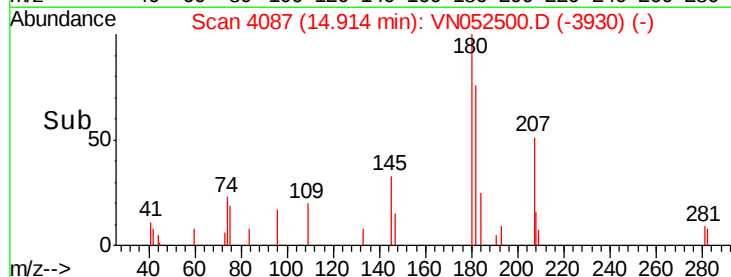
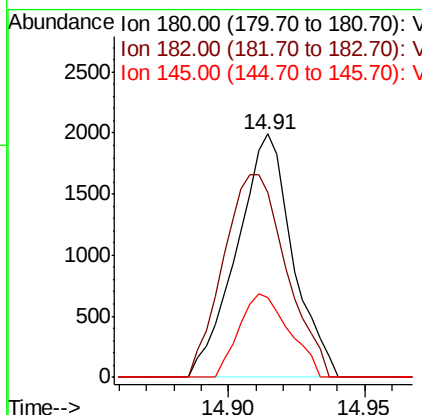
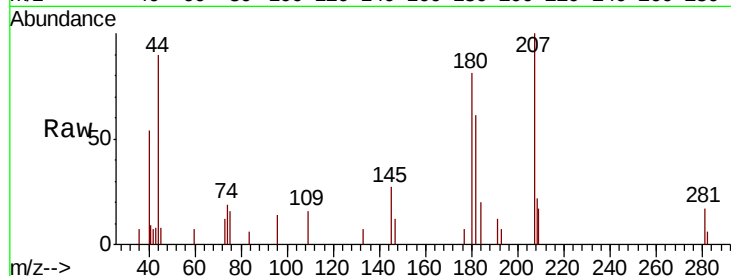




#89
 1,2,4-Trichlorobenzene
 Concen: 0.304 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN052500.D
 Acq: 28 Nov 2018 1:38

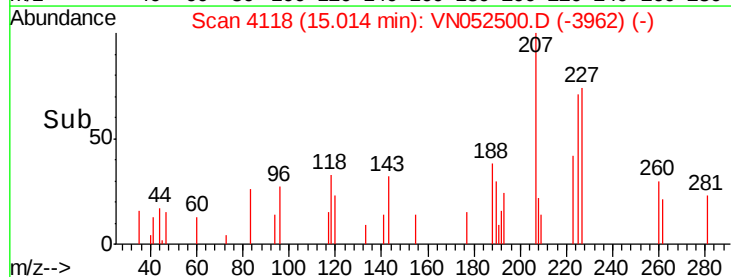
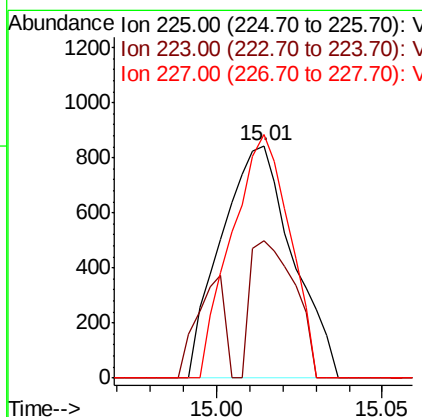
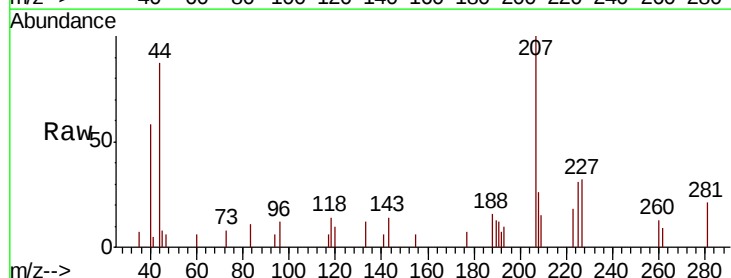
Instrument :
 MSVOA_N
 ClientSampled :
 14B-1

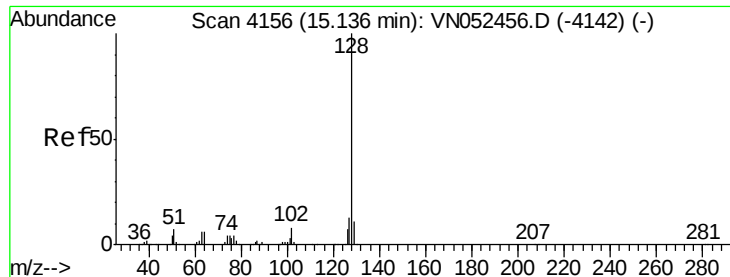
Tot Ion:180 Resp: 2830
 Ion Ratio Lower Upper
 180 100
 182 93.8 76.6 114.8
 145 30.8 23.6 35.4



#90
 Hexachlorobutadiene
 Concen: 0.207 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN052500.D
 Acq: 28 Nov 2018 1:38

Tgt Ion:225 Resp: 1264
 Ion Ratio Lower Upper
 225 100
 223 36.9 0.0 125.6
 227 84.8 0.0 127.8





#91

Naphthalene

Concen: 0.433 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

Instrument :

MSVOA_N

ClientSampled :

14B-1

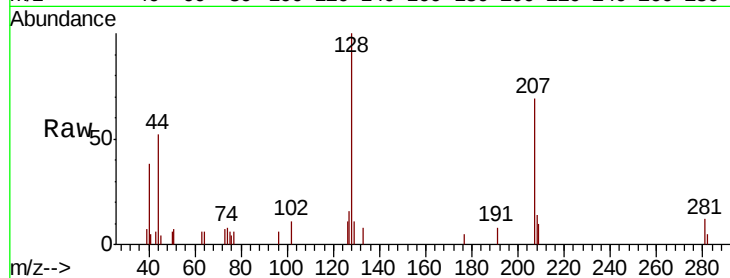
Tot Ion:128 Resp: 8134

Ion Ratio Lower Upper

128 100

127 11.3 9.9 14.9

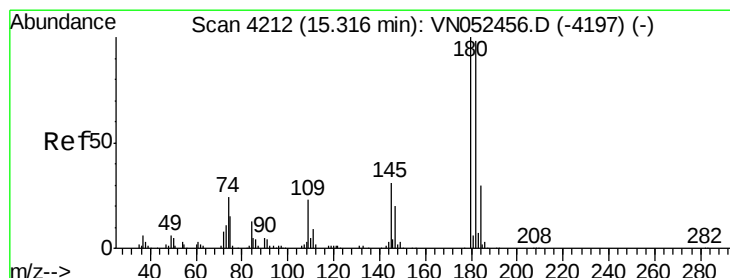
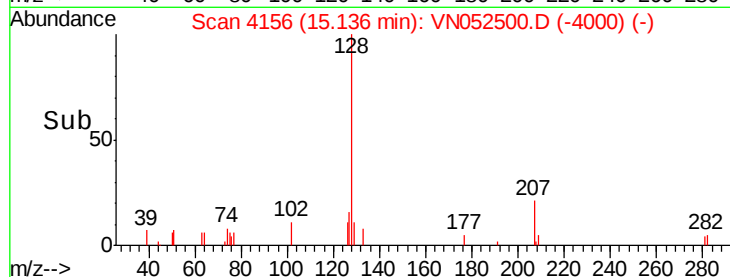
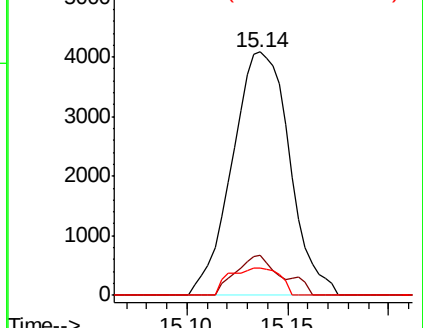
129 6.6 8.5 12.7#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.387 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052500.D

Acq: 28 Nov 2018 1:38

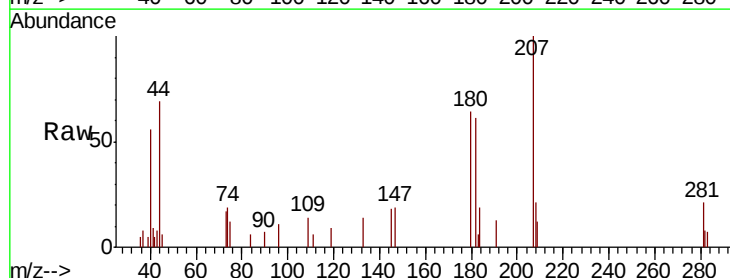
Tgt Ion:180 Resp: 3319

Ion Ratio Lower Upper

180 100

182 97.3 0.0 196.2

145 28.0 0.0 62.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

