

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052898.D
 Acq On : 14 Dec 2018 19:32
 Operator : MD\SY
 Sample : J6403-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 03:00:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1375370	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2146172	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1907443	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	783228	50.00	ug/l	0.00

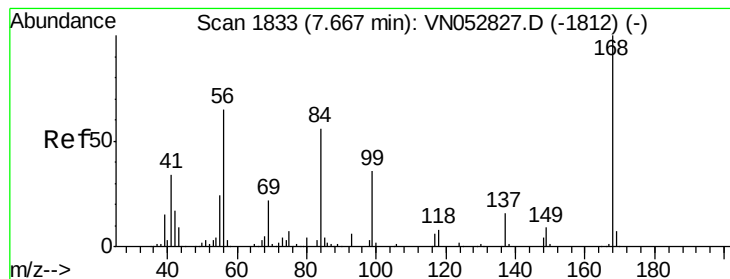
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	711185	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
35) Dibromofluoromethane	7.59	113	542084	45.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.50%	
50) Toluene-d8	10.09	98	2605351	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
62) 4-Bromofluorobenzene	12.40	95	854324	48.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.08%	

Target Compounds

						Qvalue
8) Diethyl Ether	3.42	74	5201	0.676	ug/l	99
13) Acrolein	3.62	56	171	0.222	ug/l #	61
16) Acetone	3.82	43	33765	10.280	ug/l	98
18) Methyl Acetate	4.33	43	7390	0.613	ug/l #	86
20) Methylene Chloride	4.56	84	47584	3.219	ug/l	97
25) 2-Butanone	6.84	43	11214	2.200	ug/l	100
29) Tetrahydrofuran	7.22	42	1525	0.438	ug/l #	43
31) Cyclohexane	7.67	56	23289	0.364	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	90731	4.591	ug/l #	49
37) Ethyl Acetate	6.84	43	11214	0.945	ug/l #	68
38) Carbon Tetrachloride	7.67	117	121028	6.653	ug/l #	15
43) Isopropyl Acetate	8.17	43	78986	3.245	ug/l #	80
45) 1,2-Dichloropropane	9.27	63	3849	0.248	ug/l #	44
48) Methyl methacrylate	9.18	41	22454	2.103	ug/l #	22
49) 1,4-Dioxane	9.26	88	419	3.458	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	24741	2.217	ug/l #	35
54) cis-1,3-Dichloropropene	9.91	75	161030	7.187	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	27182	1.236	ug/l #	42
59) 2-Hexanone	10.76	43	373246	48.794	ug/l #	50
71) Bromoform	12.41	173	5179	0.554	ug/l #	1
74) N-amyl acetate	11.88	43	38717	2.412	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	405186	35.064	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	11048	0.234	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	405186	112.642	ug/l #	12
95) Naphthalene	15.13	128	8486	0.296	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

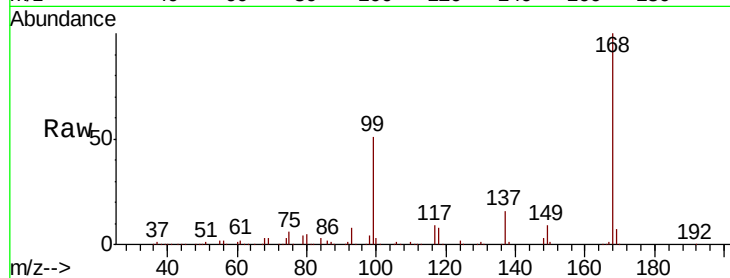
ClientSampleId :

Tot Ion:168 Resp: 1375370

Ion Ratio Lower Upper

168 100

99 50.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052827.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052827.D (-1812) (-)

7.67

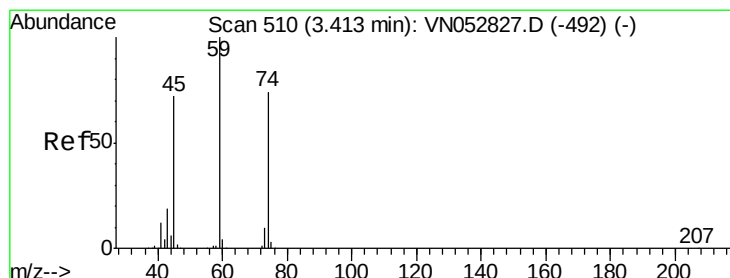
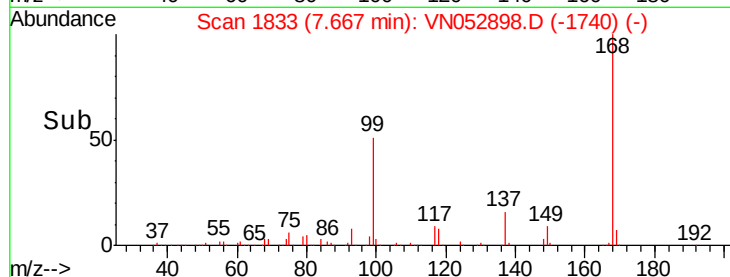
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.676 ug/l

RT: 3.42 min Scan# 512

Delta R.T. 0.01 min

Lab File: VN052898.D

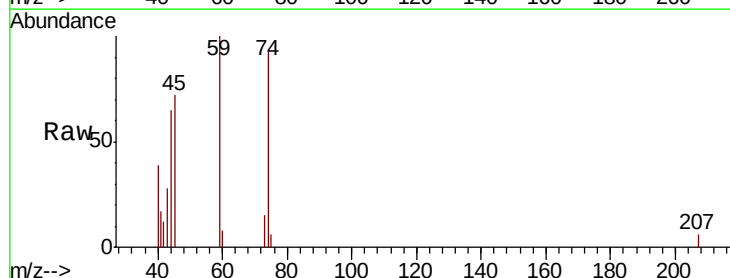
Acq: 14 Dec 2018 19:32

Tgt Ion: 74 Resp: 5201

Ion Ratio Lower Upper

74 100

45 99.9 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VN052827.D (-492) (-)

Ion 45.00 (44.70 to 45.70): VN052827.D (-492) (-)

3.42

2500

2000

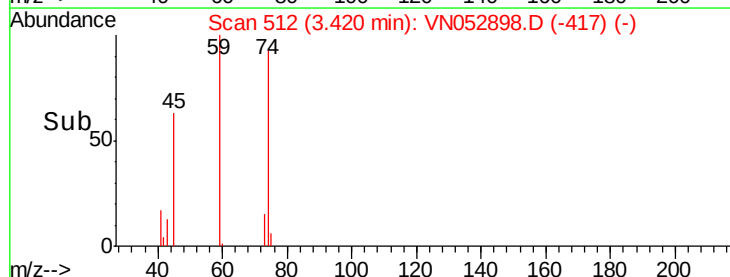
1500

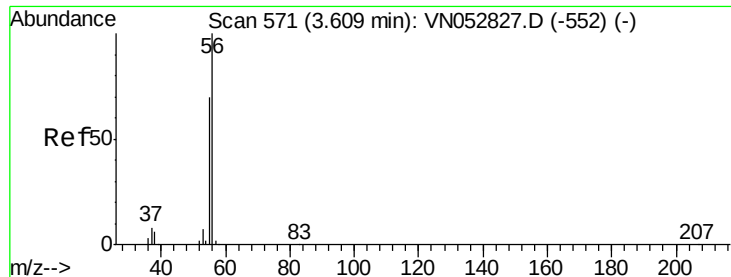
1000

500

0

Time-->





#13

Acrolein

Concen: 0.222 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

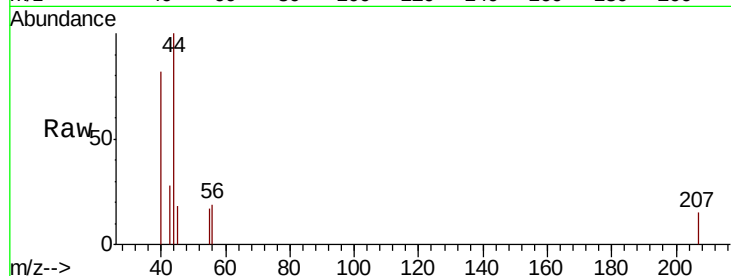
ClientSampleId :

Tot Ion: 56 Resp: 171

Ion Ratio Lower Upper

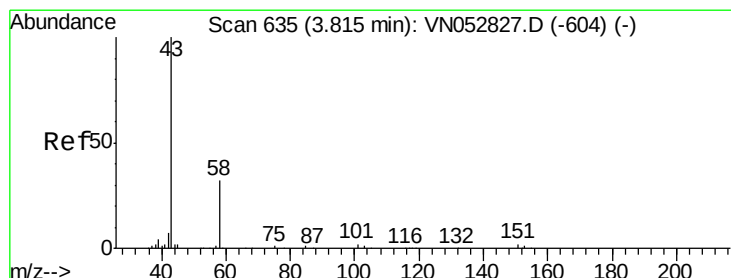
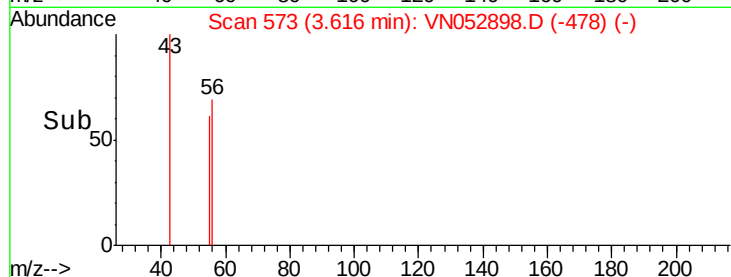
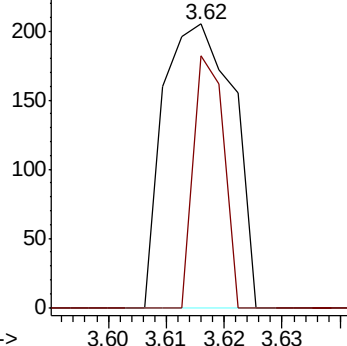
56 100

55 38.6 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 10.280 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052898.D

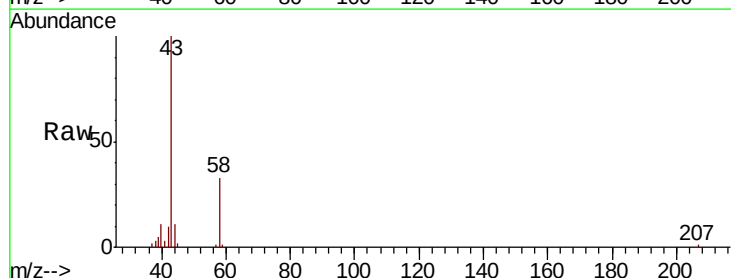
Acq: 14 Dec 2018 19:32

Tgt Ion: 43 Resp: 33765

Ion Ratio Lower Upper

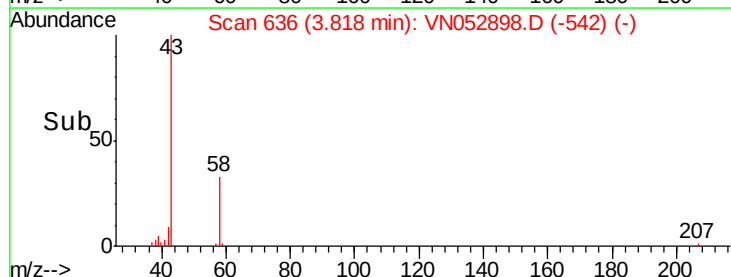
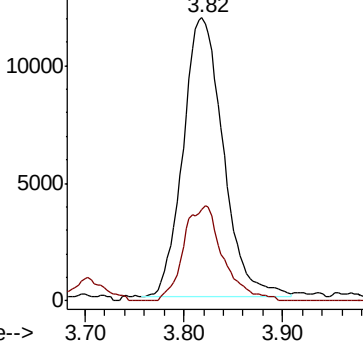
43 100

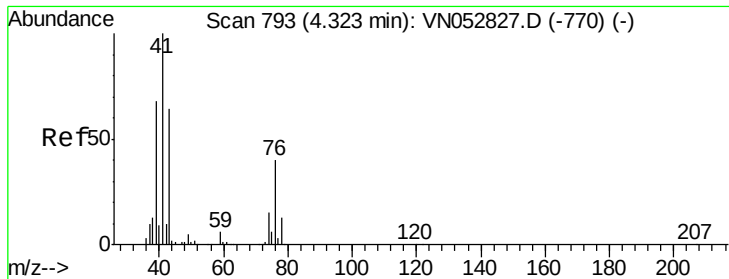
58 32.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

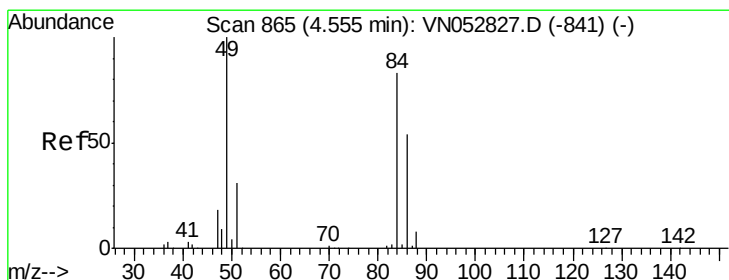
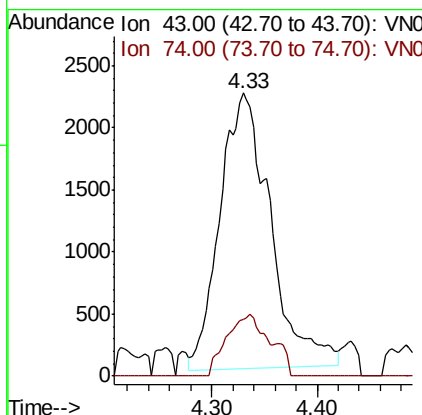
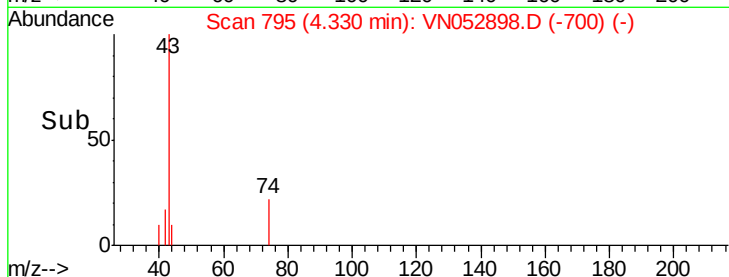
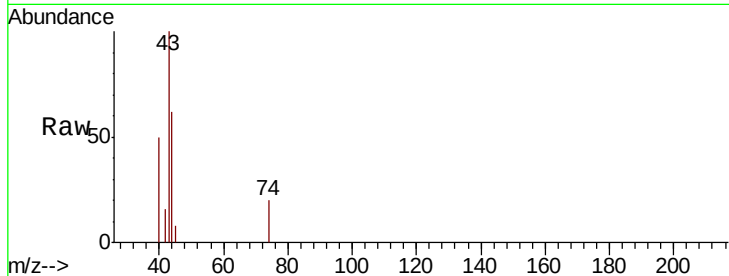




#18
Methyl Acetate
Concen: 0.613 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN052898.D
Acq: 14 Dec 2018 19:32

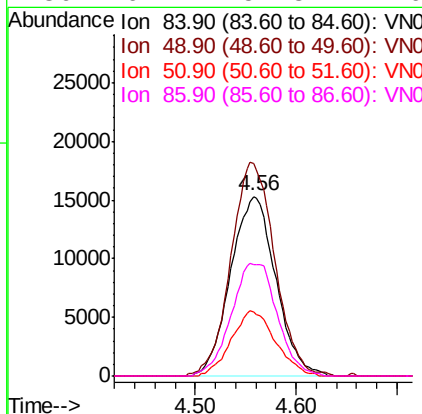
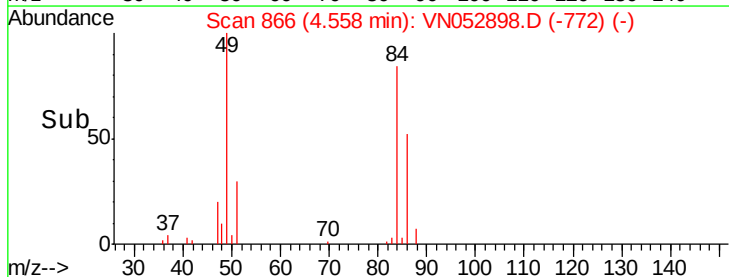
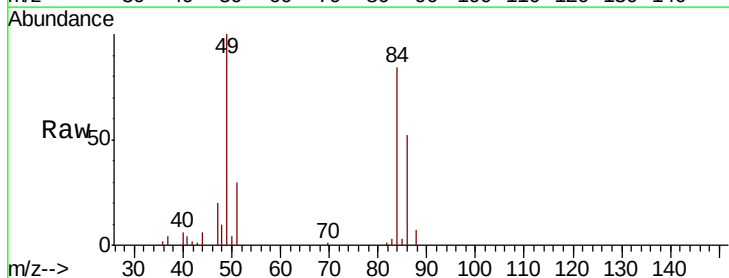
Instrument :
MSVOA_N
ClientSampled :

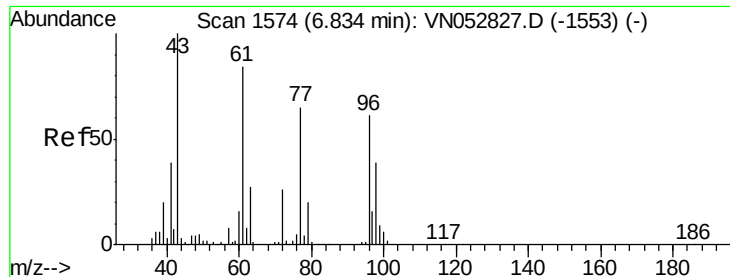
Tot Ion: 43 Resp: 7390
Ion Ratio Lower Upper
43 100
74 16.8 19.2 28.8#



#20
Methylene Chloride
Concen: 3.219 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052898.D
Acq: 14 Dec 2018 19:32

Tgt Ion: 84 Resp: 47584
Ion Ratio Lower Upper
84 100
49 118.6 96.8 145.2
51 35.8 29.9 44.9
86 62.2 51.8 77.6





#25

2-Butanone

Concen: 2.200 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

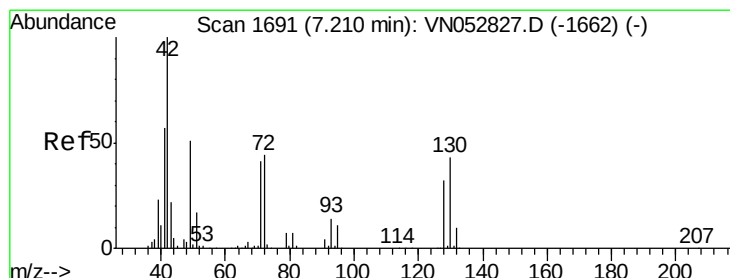
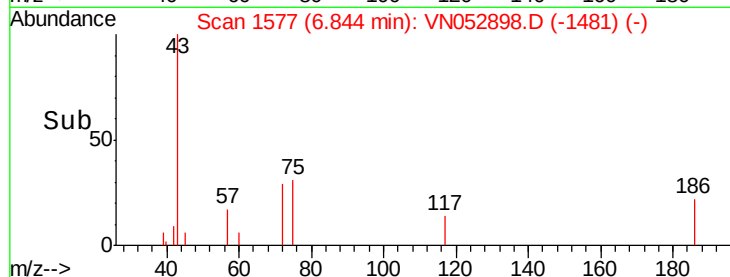
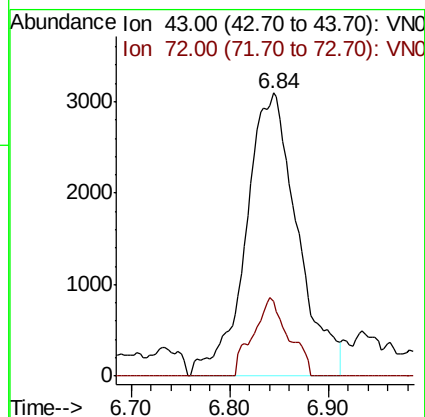
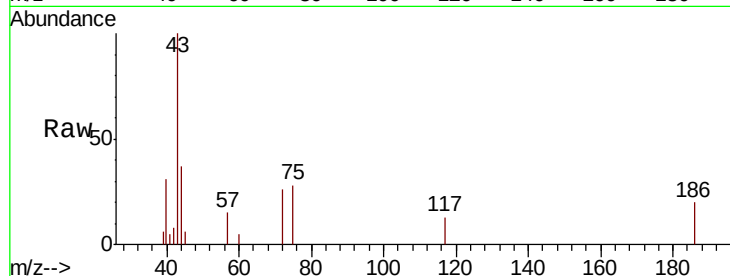
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 11214

Ion Ratio Lower Upper

43 100

72 26.2 21.0 31.6



#29

Tetrahydrofuran

Concen: 0.438 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

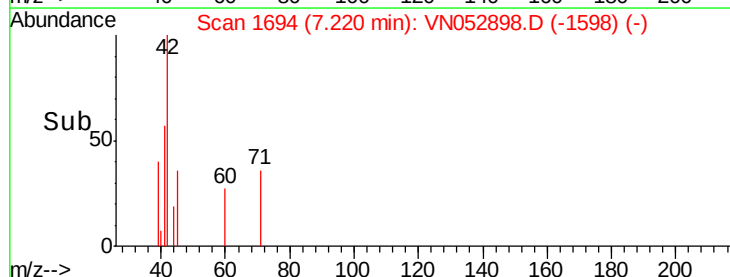
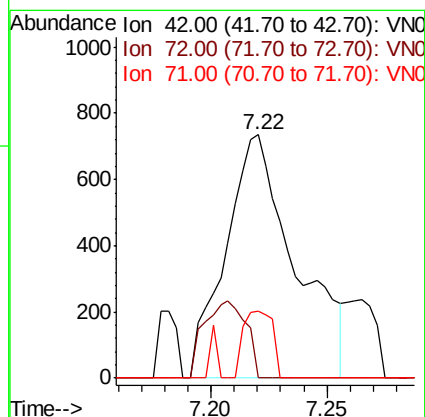
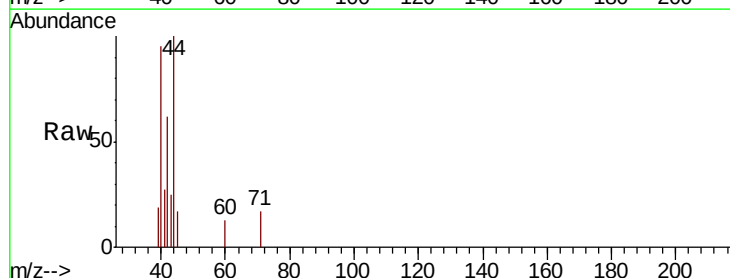
Tgt Ion: 42 Resp: 1525

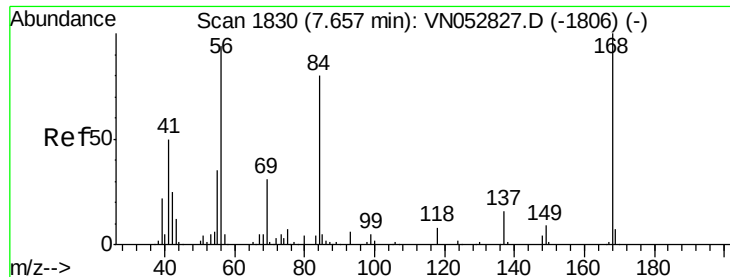
Ion Ratio Lower Upper

42 100

72 0.0 34.7 52.1#

71 11.7 32.3 48.5#





#31

Cyclohexane

Concen: 0.364 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

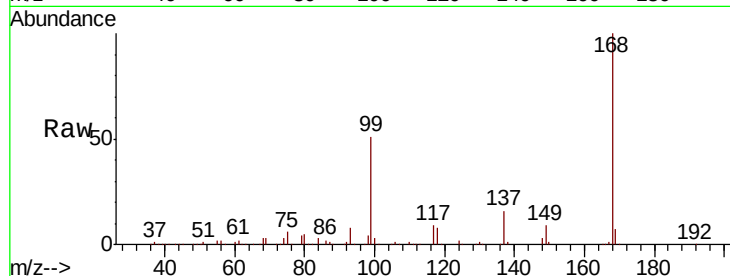
Tot Ion: 56 Resp: 23289

Ion Ratio Lower Upper

56 100

69 190.4 26.6 39.8#

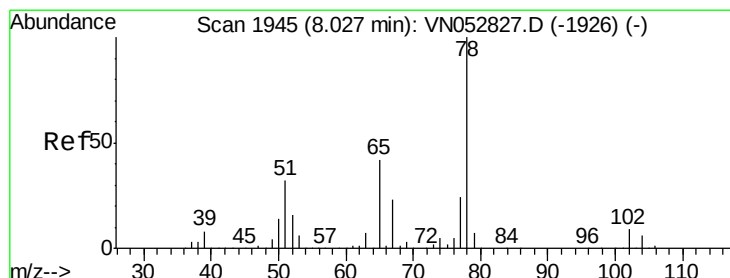
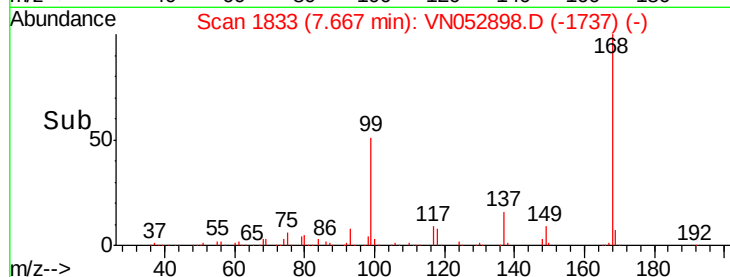
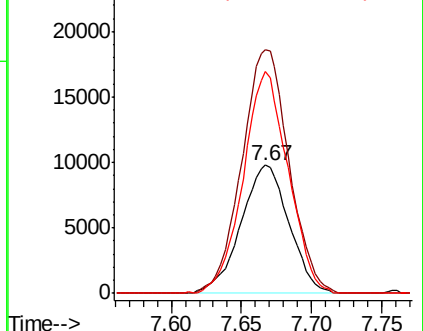
84 173.9 68.4 102.6#



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: VN052898.D

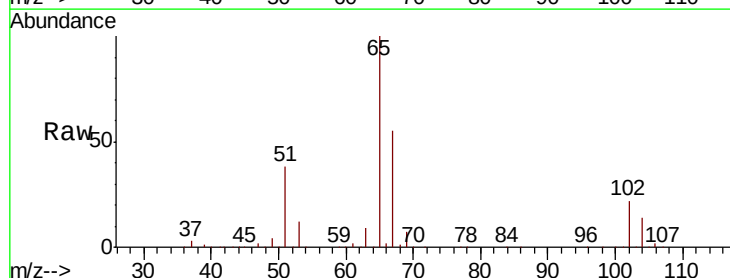
Acq: 14 Dec 2018 19:32

Tgt Ion: 65 Resp: 711185

Ion Ratio Lower Upper

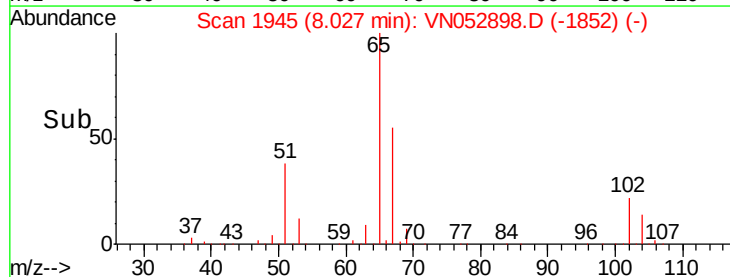
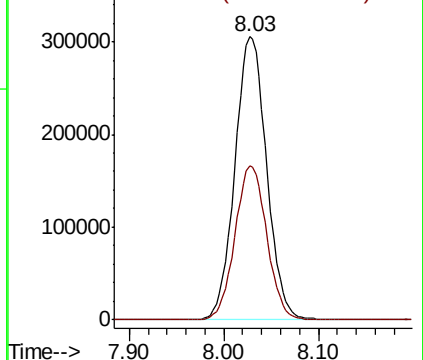
65 100

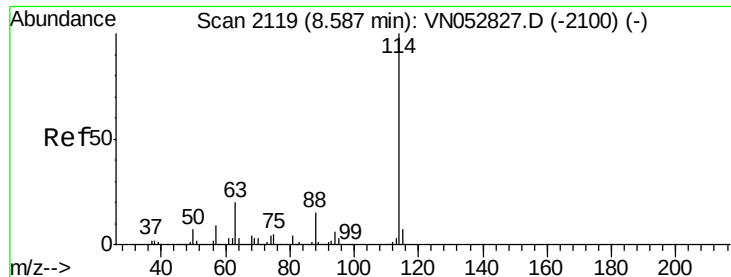
67 54.6 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

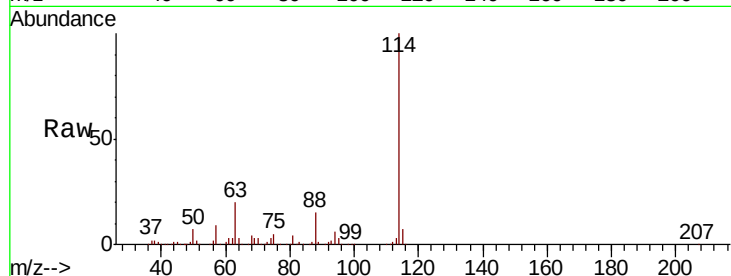




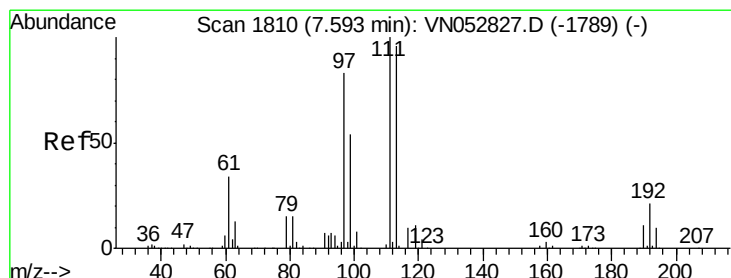
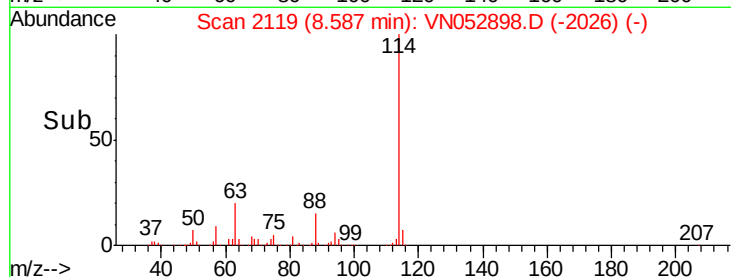
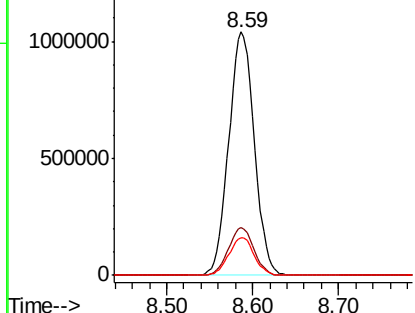
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052898.D
 Acq: 14 Dec 2018 19:32

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 2146172
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.5 0.0 31.0

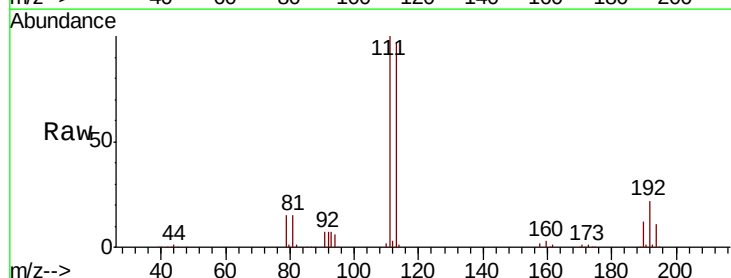


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

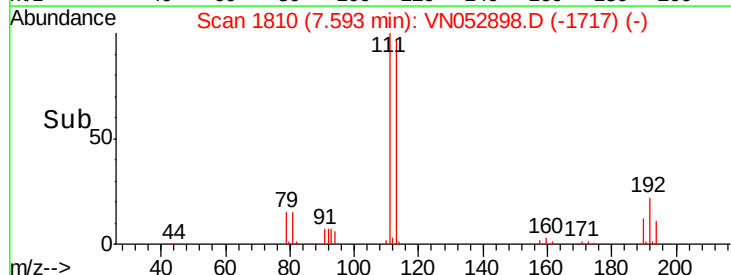
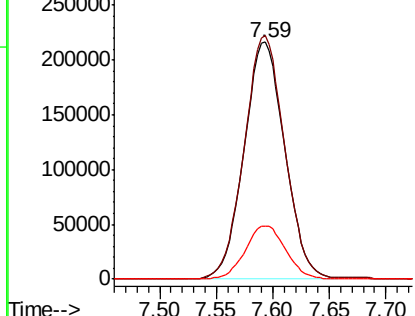


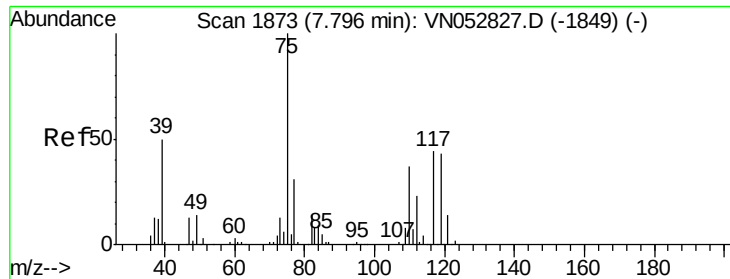
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052898.D
 Acq: 14 Dec 2018 19:32

Tgt Ion:113 Resp: 542084
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.0 124.4
 192 22.3 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

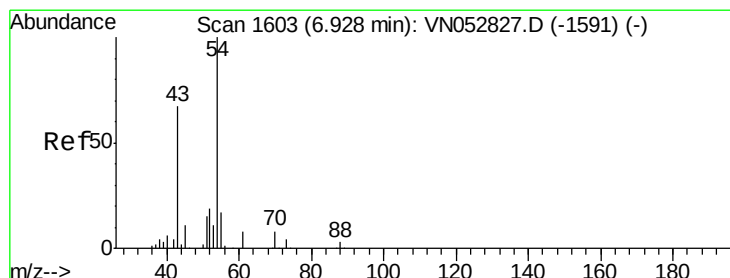
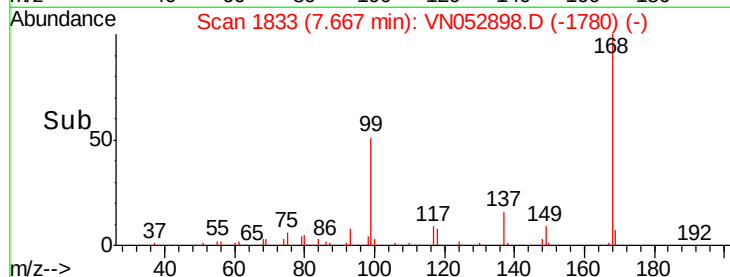
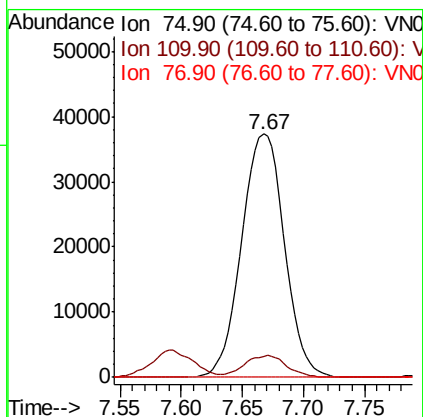
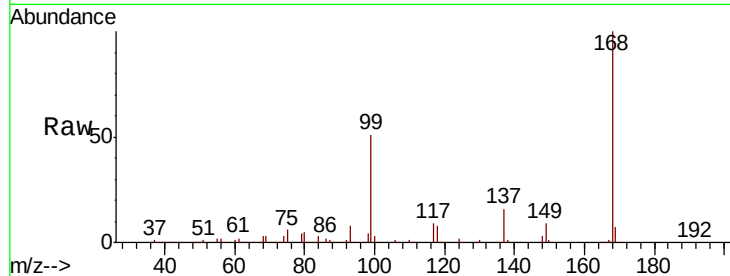




#36
 1,1-Dichloropropene
 Concen: 4.591 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052898.D
 Acq: 14 Dec 2018 19:32

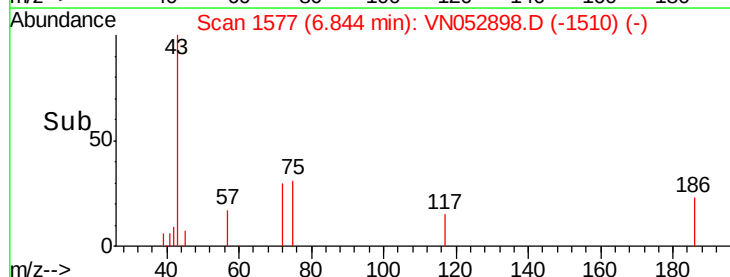
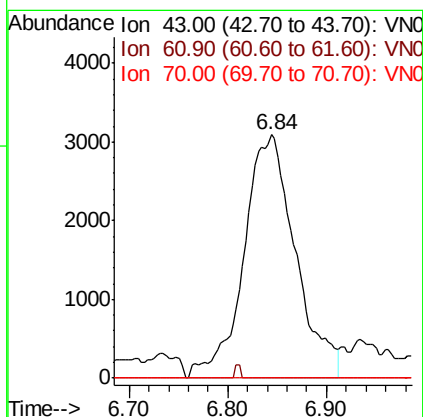
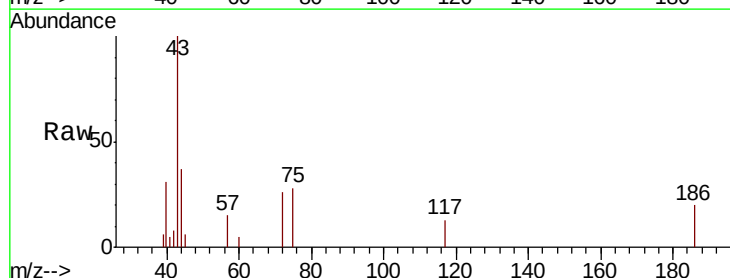
Instrument :
 MSVOA_N
 ClientSampled :

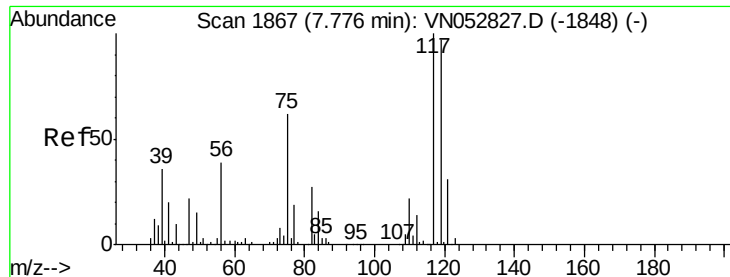
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.2	54.6#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 0.945 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. -0.08 min
 Lab File: VN052898.D
 Acq: 14 Dec 2018 19:32

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	0.0	8.4	12.6#





#38

Carbon Tetrachloride

Concen: 6.653 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

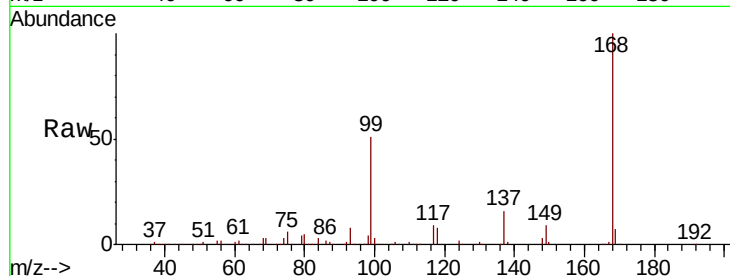
Tot Ion:117 Resp: 121028

Ion Ratio Lower Upper

117 100

119 4.5 77.1 115.7#

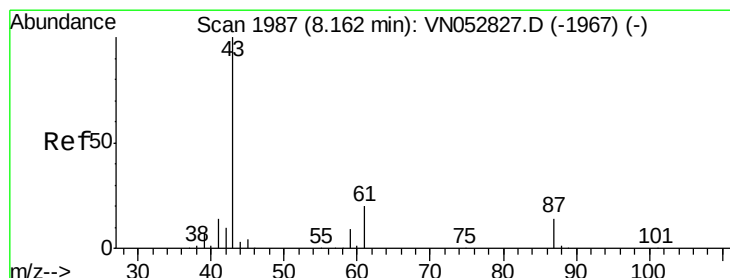
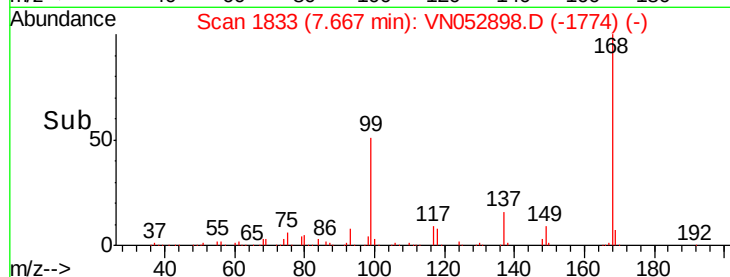
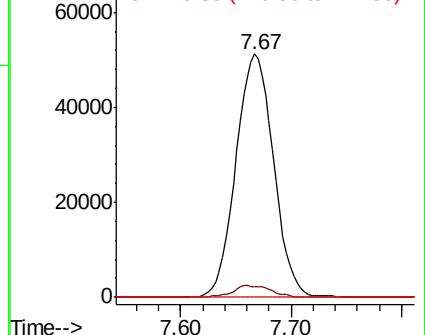
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 3.245 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

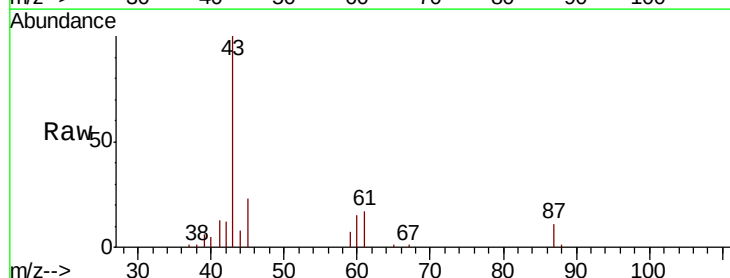
Tgt Ion: 43 Resp: 78986

Ion Ratio Lower Upper

43 100

61 15.2 22.9 34.3#

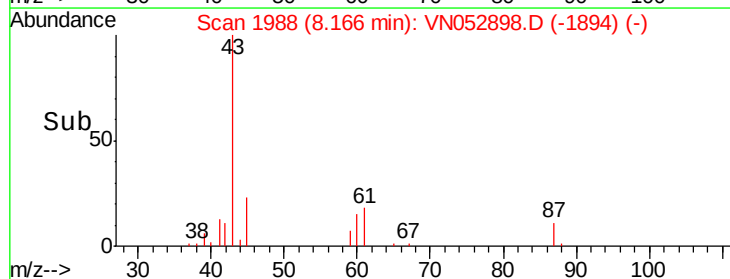
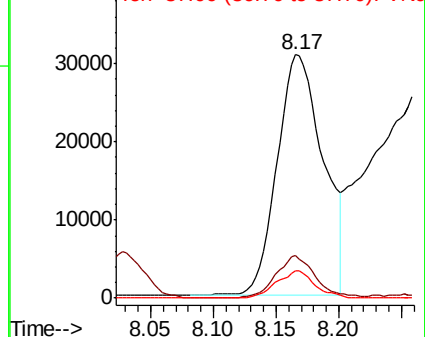
87 9.2 10.6 15.8#

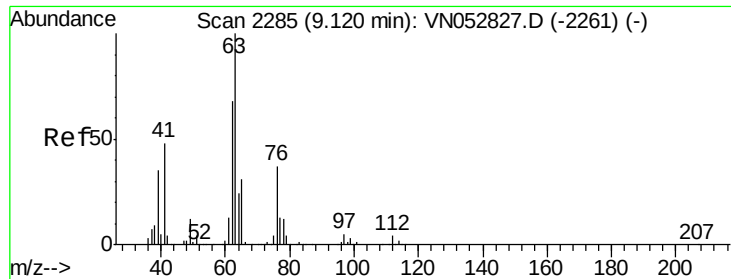


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

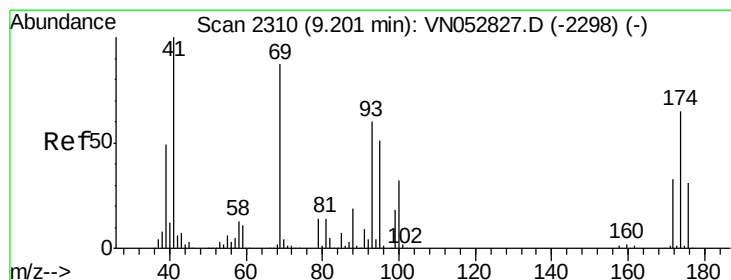
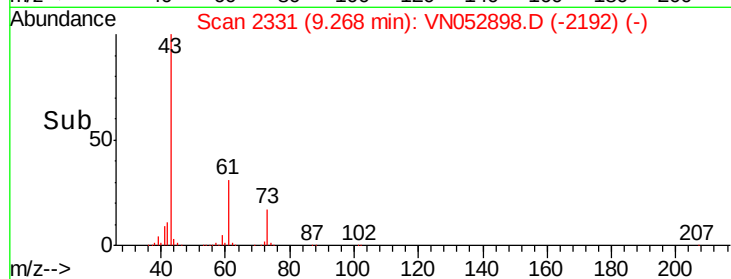
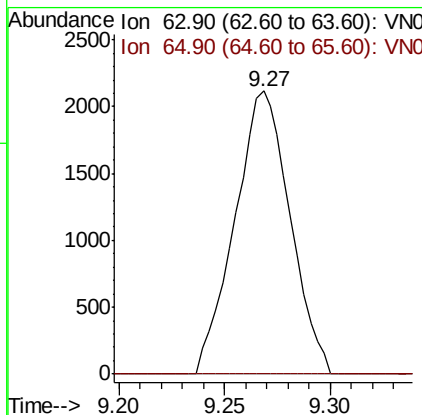
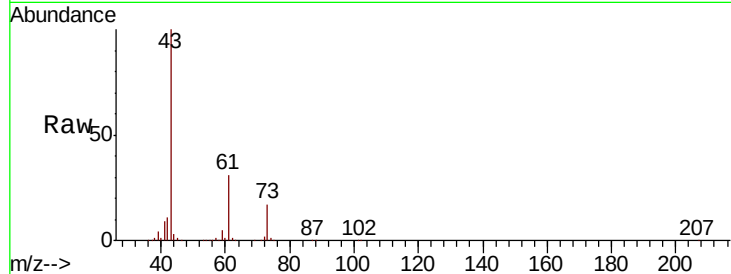




#45
 1,2-Dichloropropane
 Concen: 0.248 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN052898.D
 Acq: 14 Dec 2018 19:32

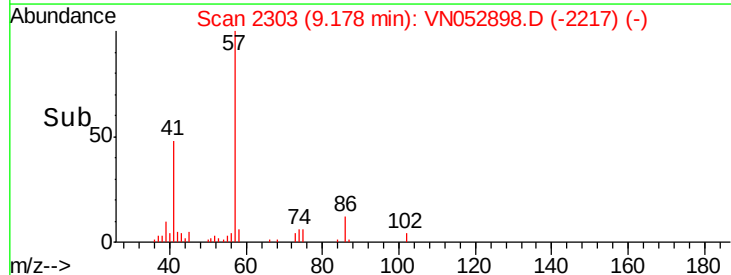
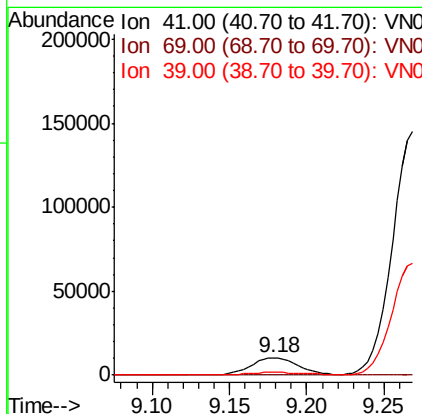
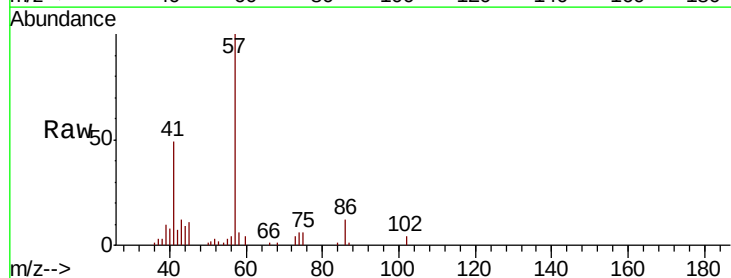
Instrument :
 MSVOA_N
 ClientSampled :

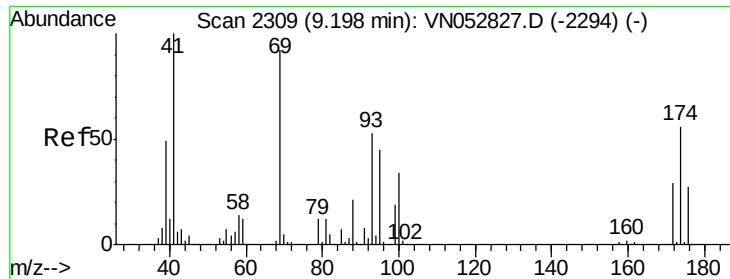
Tot Ion: 63 Resp: 3849
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.6 37.0#



#48
 Methyl methacrylate
 Concen: 2.103 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN052898.D
 Acq: 14 Dec 2018 19:32

Tgt Ion: 41 Resp: 22454
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.2 108.2#
 39 18.4 41.9 62.9#





#49

1,4-Dioxane

Concen: 3.458 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.06 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

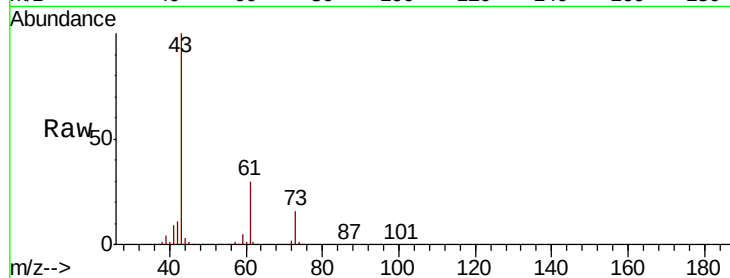
Tot Ion: 88 Resp: 419

Ion Ratio Lower Upper

88 100

43 693272.6 26.6 40.0#

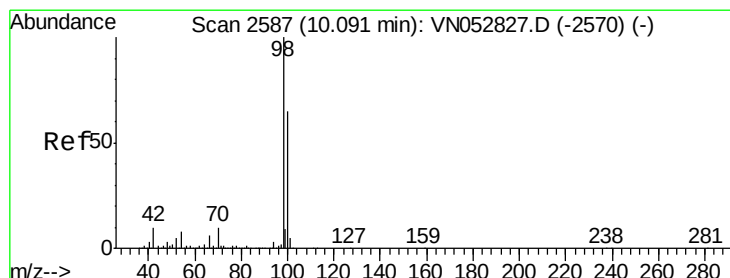
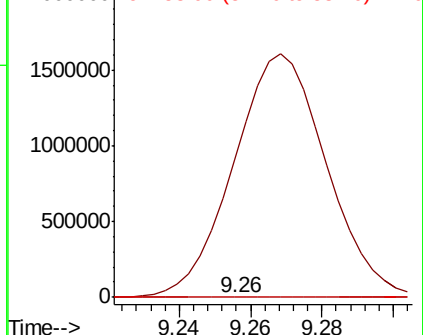
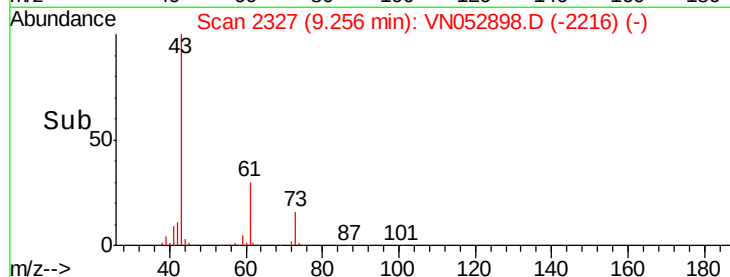
58 2919.1 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 3.458 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052898.D

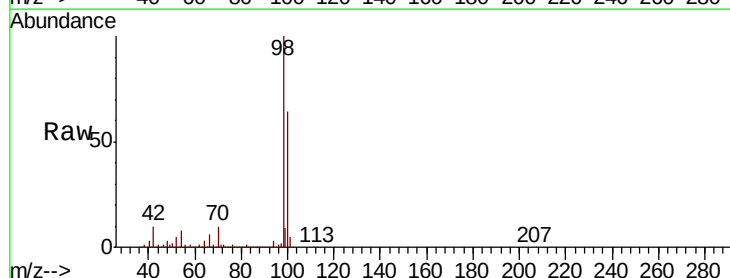
Acq: 14 Dec 2018 19:32

Tgt Ion: 98 Resp: 2605351

Ion Ratio Lower Upper

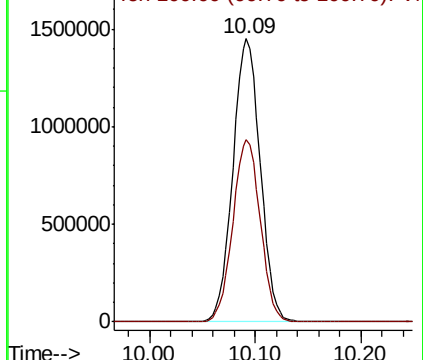
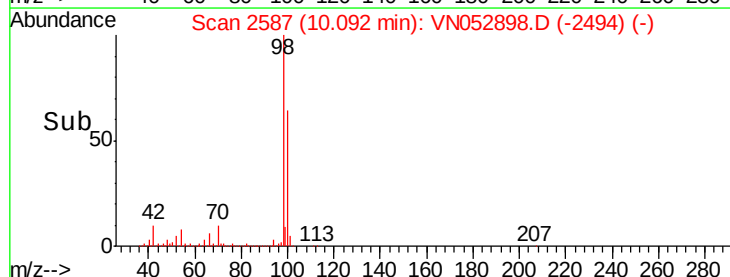
98 100

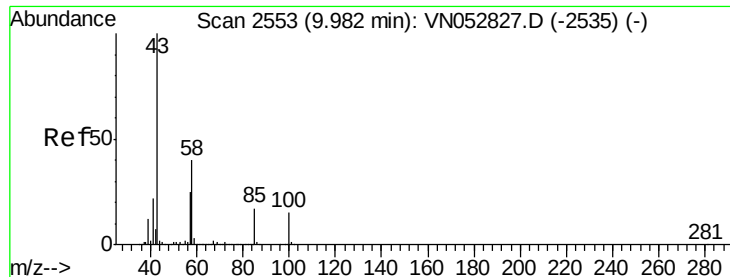
100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.217 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

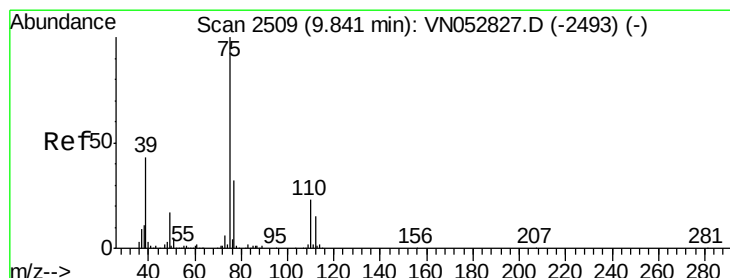
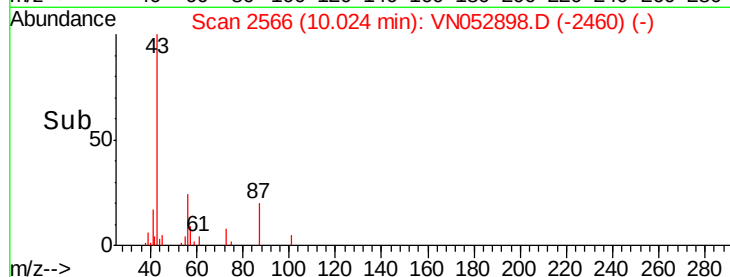
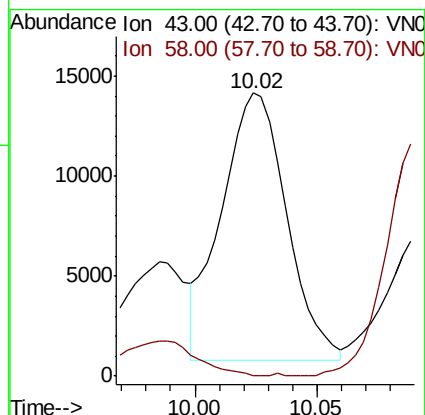
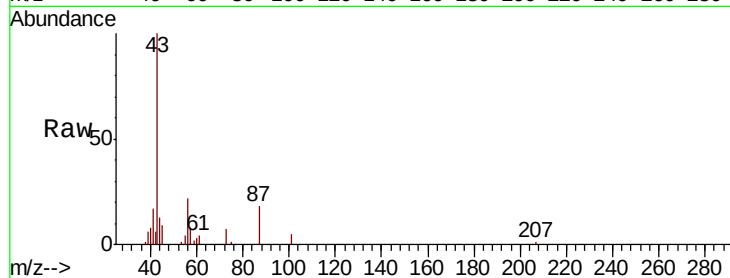
ClientSampleId :

Tot Ion: 43 Resp: 24741

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 7.187 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

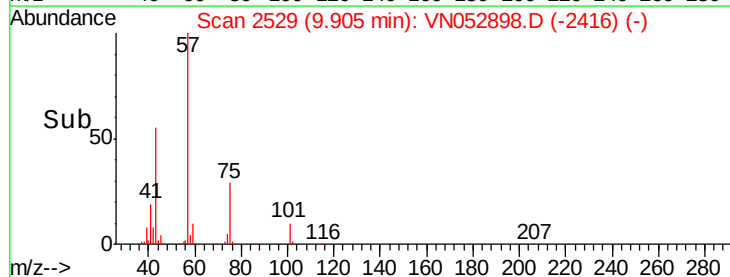
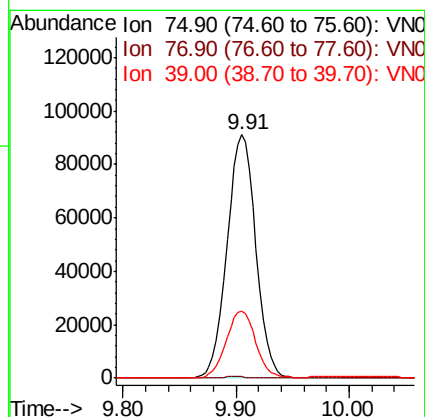
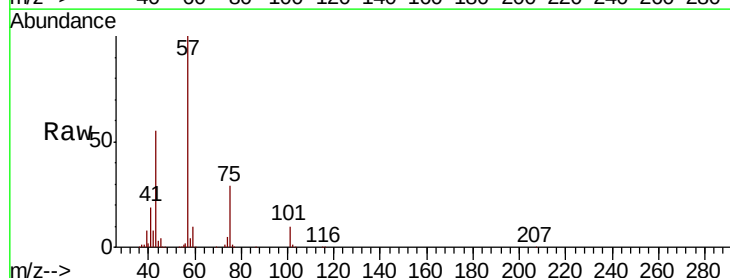
Tgt Ion: 75 Resp: 161030

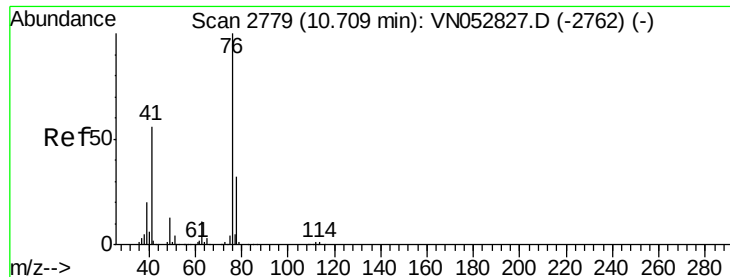
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 27.4 34.8 52.2#





#57

1,3-Dichloropropane

Concen: 1.236 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

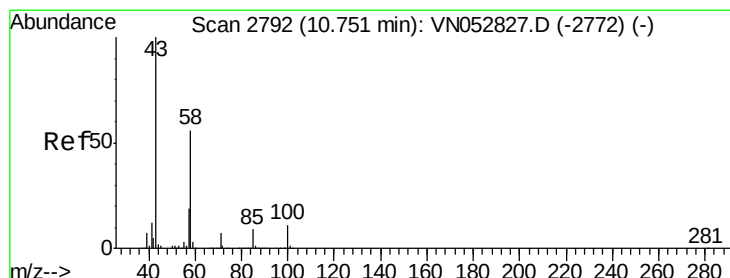
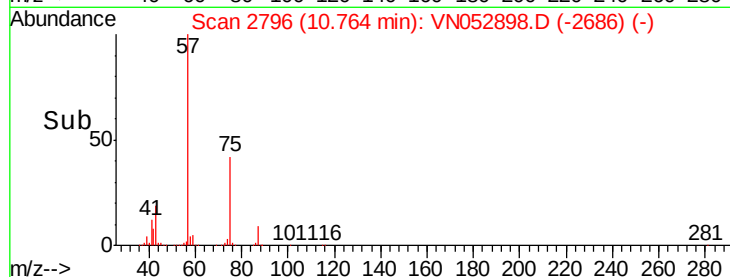
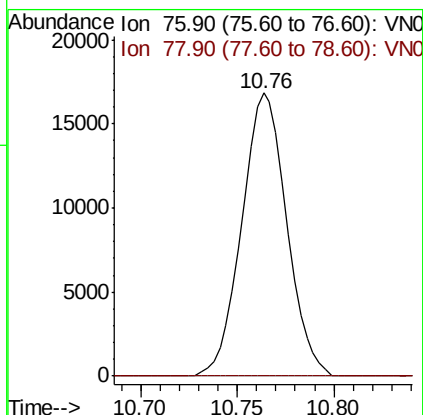
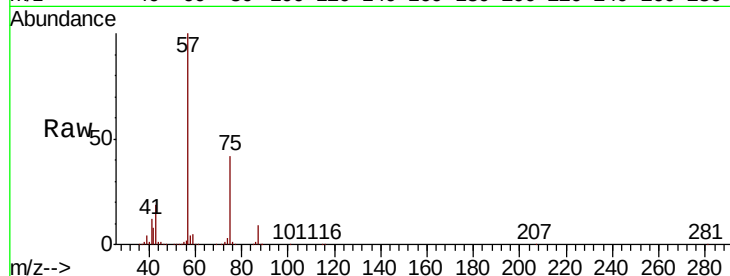
ClientSampleId :

Tot Ion: 76 Resp: 27182

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 48.794 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052898.D

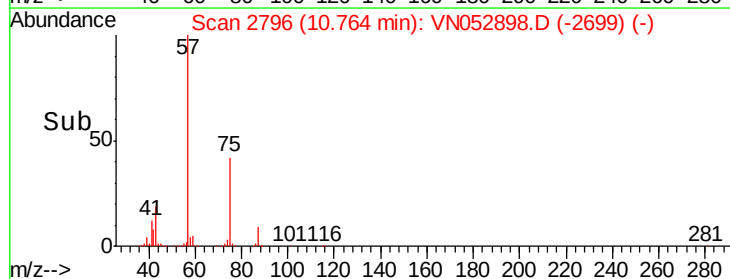
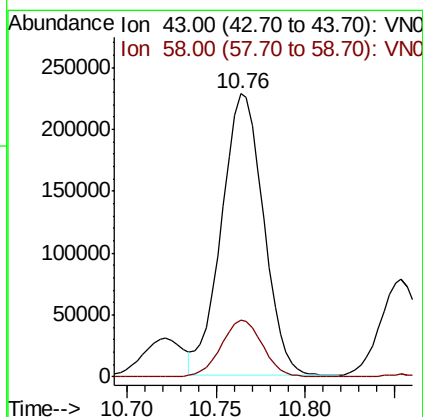
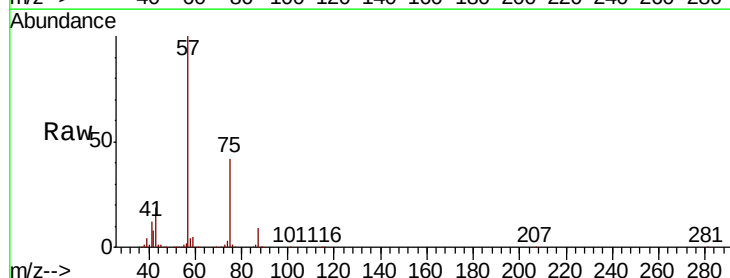
Acq: 14 Dec 2018 19:32

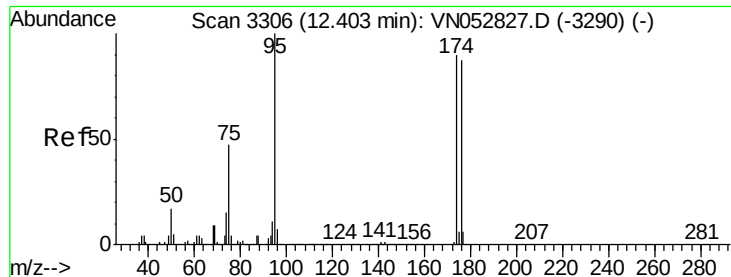
Tgt Ion: 43 Resp: 373246

Ion Ratio Lower Upper

43 100

58 19.9 28.1 84.3#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

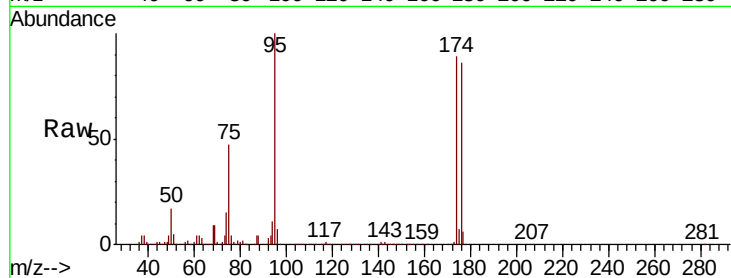
Tot Ion: 95 Resp: 854324

Ion Ratio Lower Upper

95 100

174 89.0 0.0 178.8

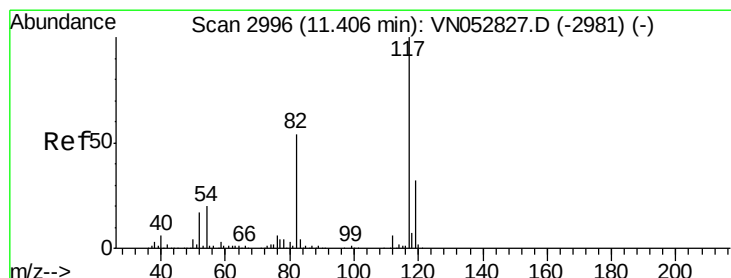
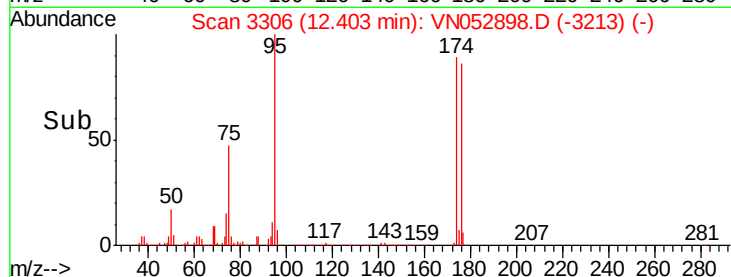
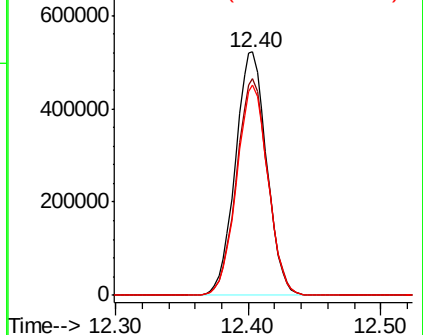
176 86.8 0.0 173.8



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# 2996

Delta R.T. 0.00 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

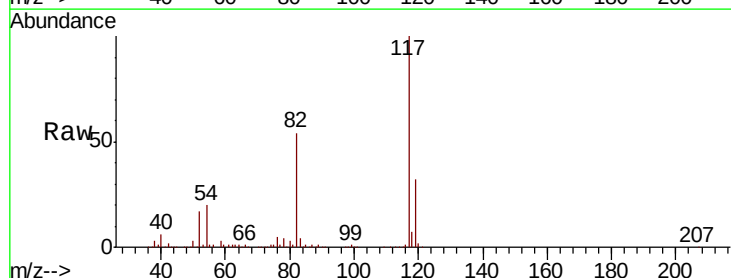
Tgt Ion: 117 Resp: 1907443

Ion Ratio Lower Upper

117 100

82 54.0 42.8 64.2

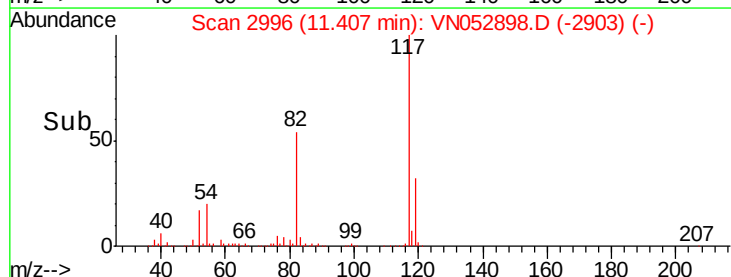
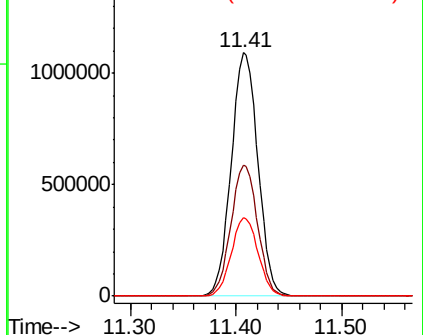
119 32.2 25.5 38.3

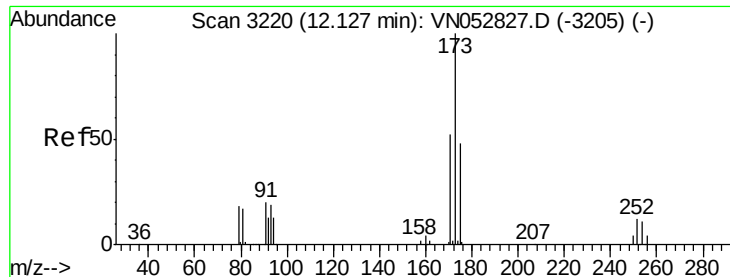


Abundance Ion 116.90 (116.60 to 117.60): VN

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): VN





#71

Bromoform

Concen: 0.554 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN052898.D

Acq: 14 Dec 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

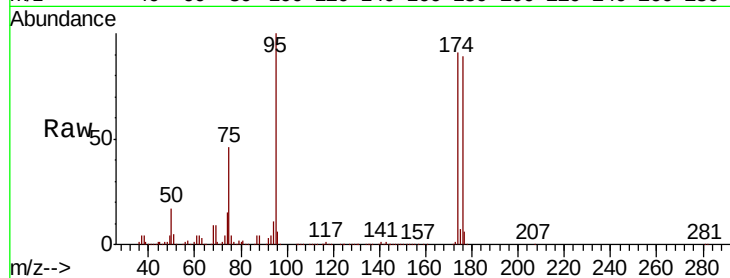
Tot Ion:173 Resp: 5179

Ion Ratio Lower Upper

173 100

175 936.7 24.3 72.9#

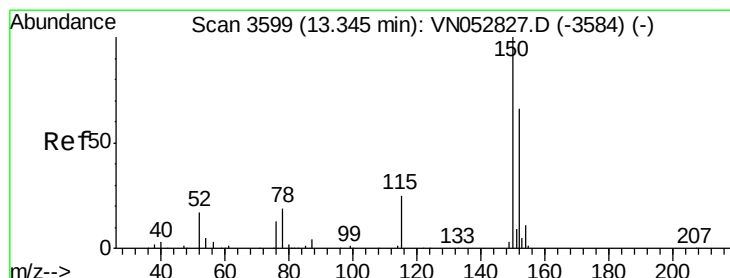
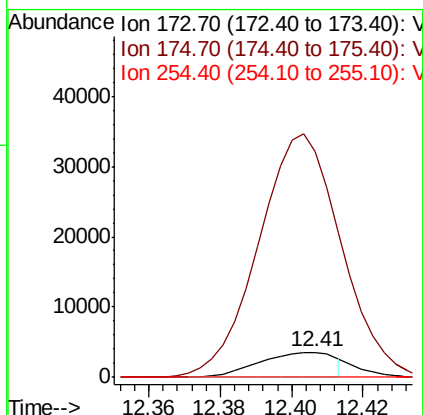
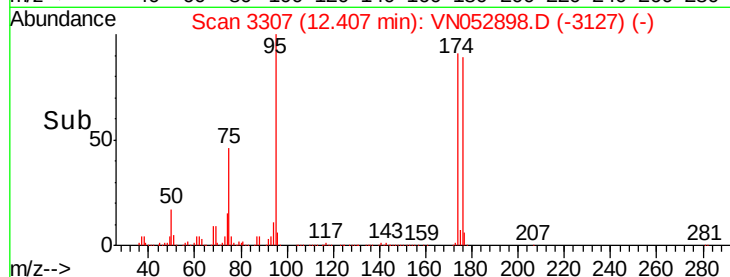
254 0.0 0.1 0.1#



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: VN052898.D

Acq: 14 Dec 2018 19:32

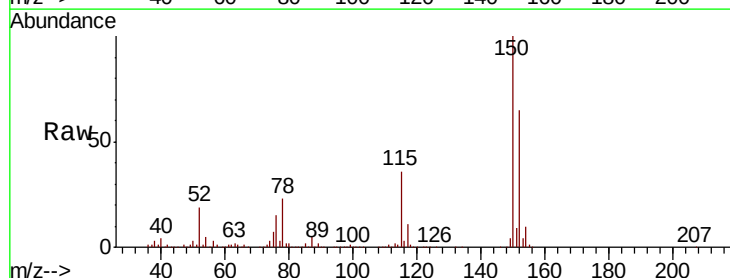
Tgt Ion:152 Resp: 783228

Ion Ratio Lower Upper

152 100

115 55.8 28.3 85.0

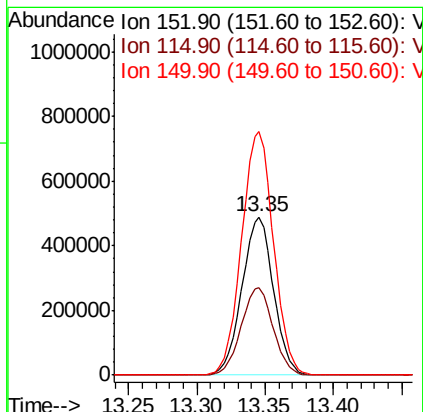
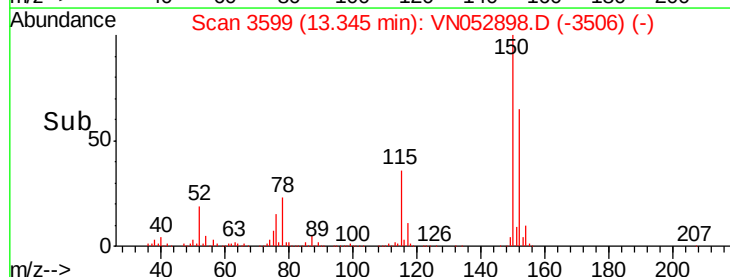
150 156.1 0.0 347.8

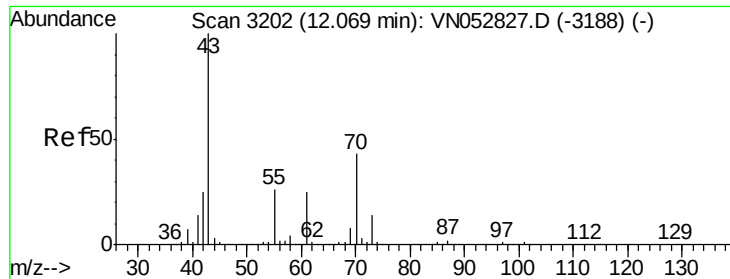


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

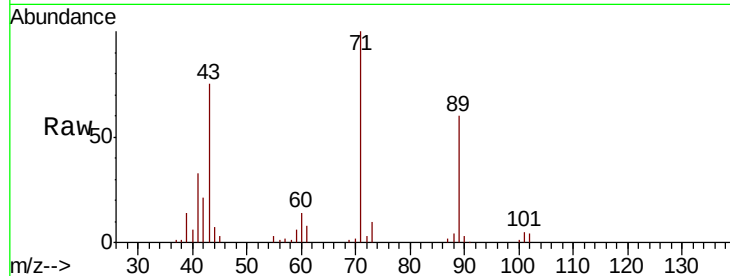




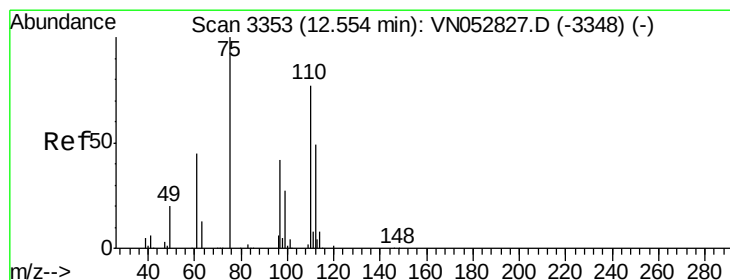
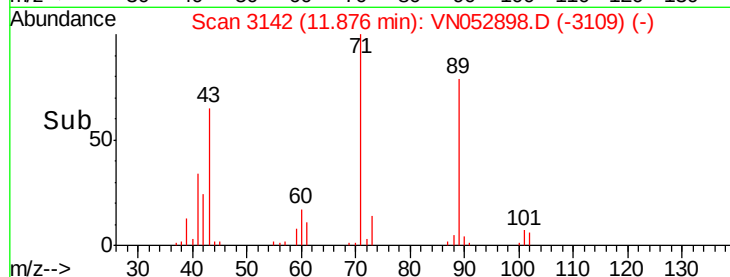
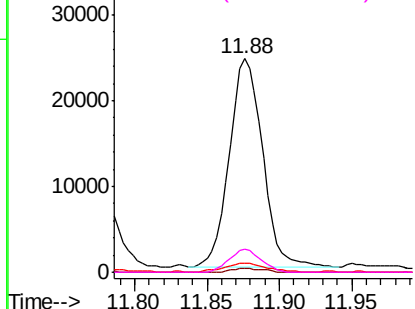
#74
N-amyl acetate
Concen: 2.412 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN052898.D
Acq: 14 Dec 2018 19:32

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 38717
Ion Ratio Lower Upper
43 100
70 1.8 34.2 51.4#
55 5.5 20.3 30.5#
61 10.6 20.0 30.0#

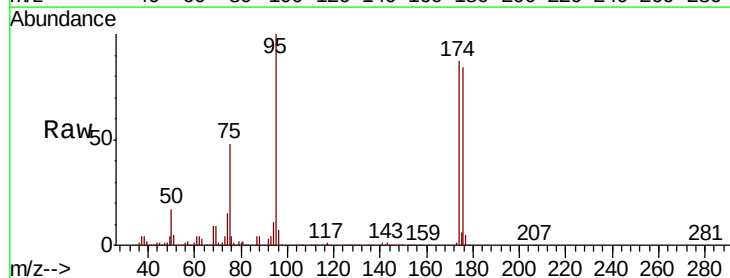


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO

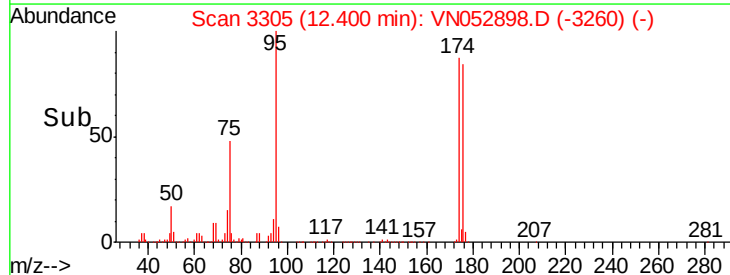
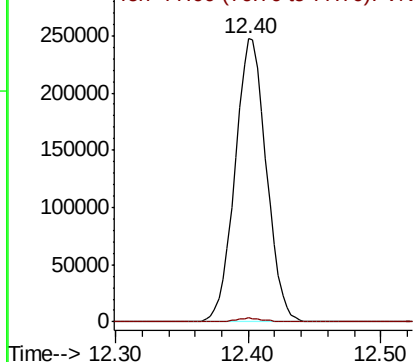


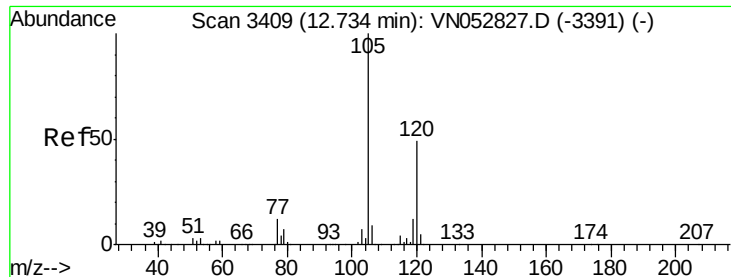
#76
1,2,3-Trichloropropane
Concen: 35.064 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN052898.D
Acq: 14 Dec 2018 19:32

Tgt Ion: 75 Resp: 405186
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO

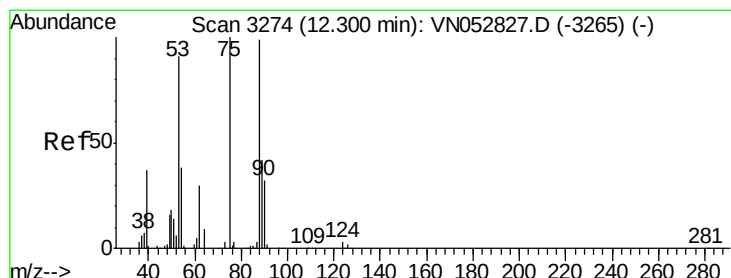
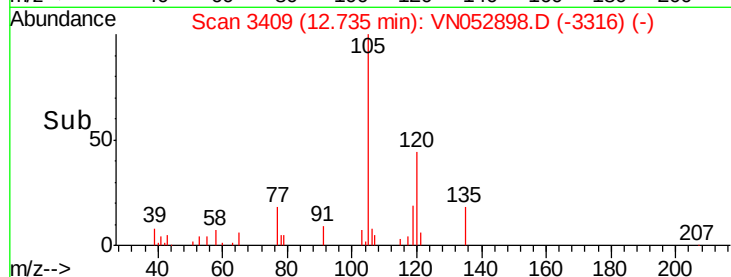
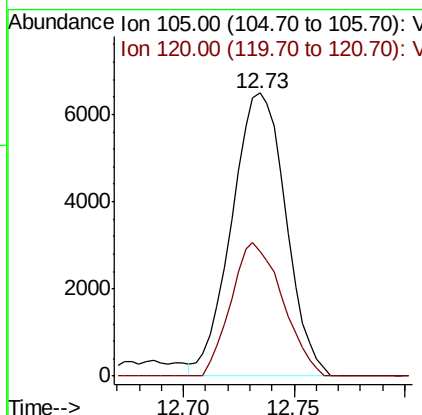
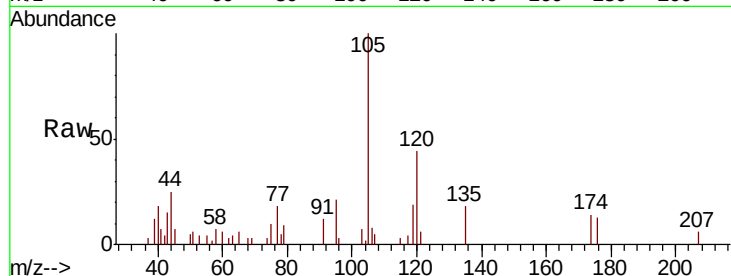




#80
 1,3,5-Trimethylbenzene
 Concen: 0.234 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052898.D
 Acq: 14 Dec 2018 19:32

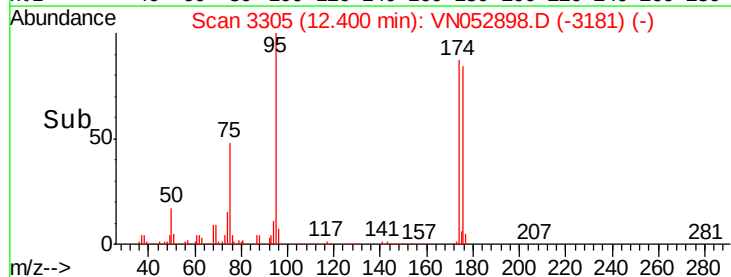
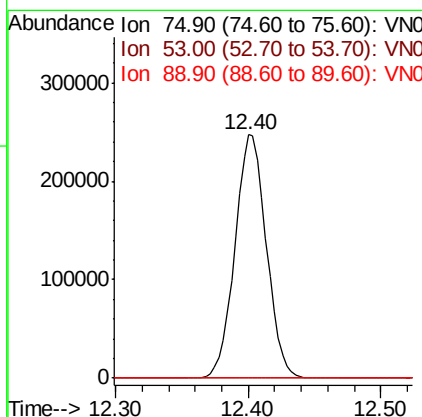
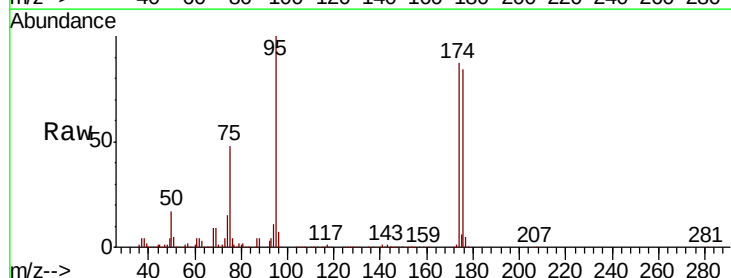
Instrument :
 MSVOA_N
 ClientSampleId :

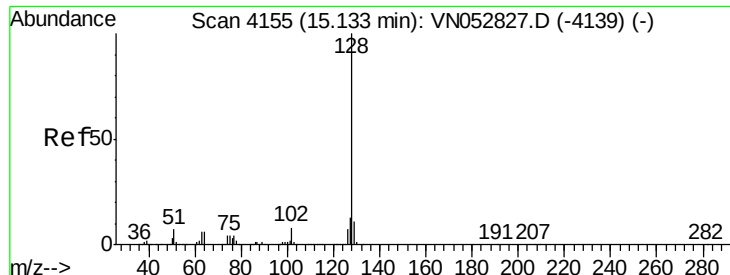
Tot Ion:105 Resp: 11048
 Ion Ratio Lower Upper
 105 100
 120 44.9 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.642 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052898.D
 Acq: 14 Dec 2018 19:32

Tgt Ion: 75 Resp: 405186
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#

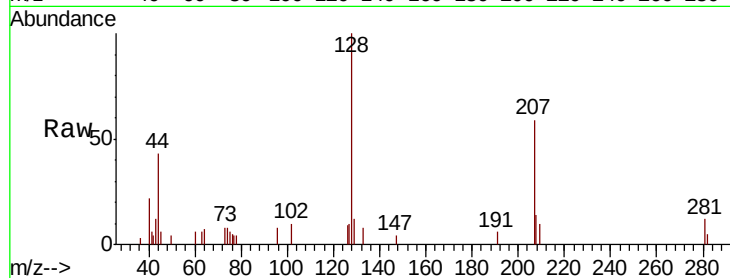




#95
Naphthalene
Concen: 0.296 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052898.D
Acq: 14 Dec 2018 19:32

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 8486
Ion Ratio Lower Upper
128 100
127 11.5 10.2 15.4
129 9.8 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

