

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052896.D
 Acq On : 14 Dec 2018 18:38
 Operator : MD\SY
 Sample : J6403-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 03:00:21 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	1336507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2071668	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1776716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	687818	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	690476	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
35) Dibromofluoromethane	7.59	113	538355	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
50) Toluene-d8	10.09	98	2484175	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
62) 4-Bromofluorobenzene	12.40	95	777501	45.76	ug/l	0.00
Spiked Amount			Recovery	=	91.52%	

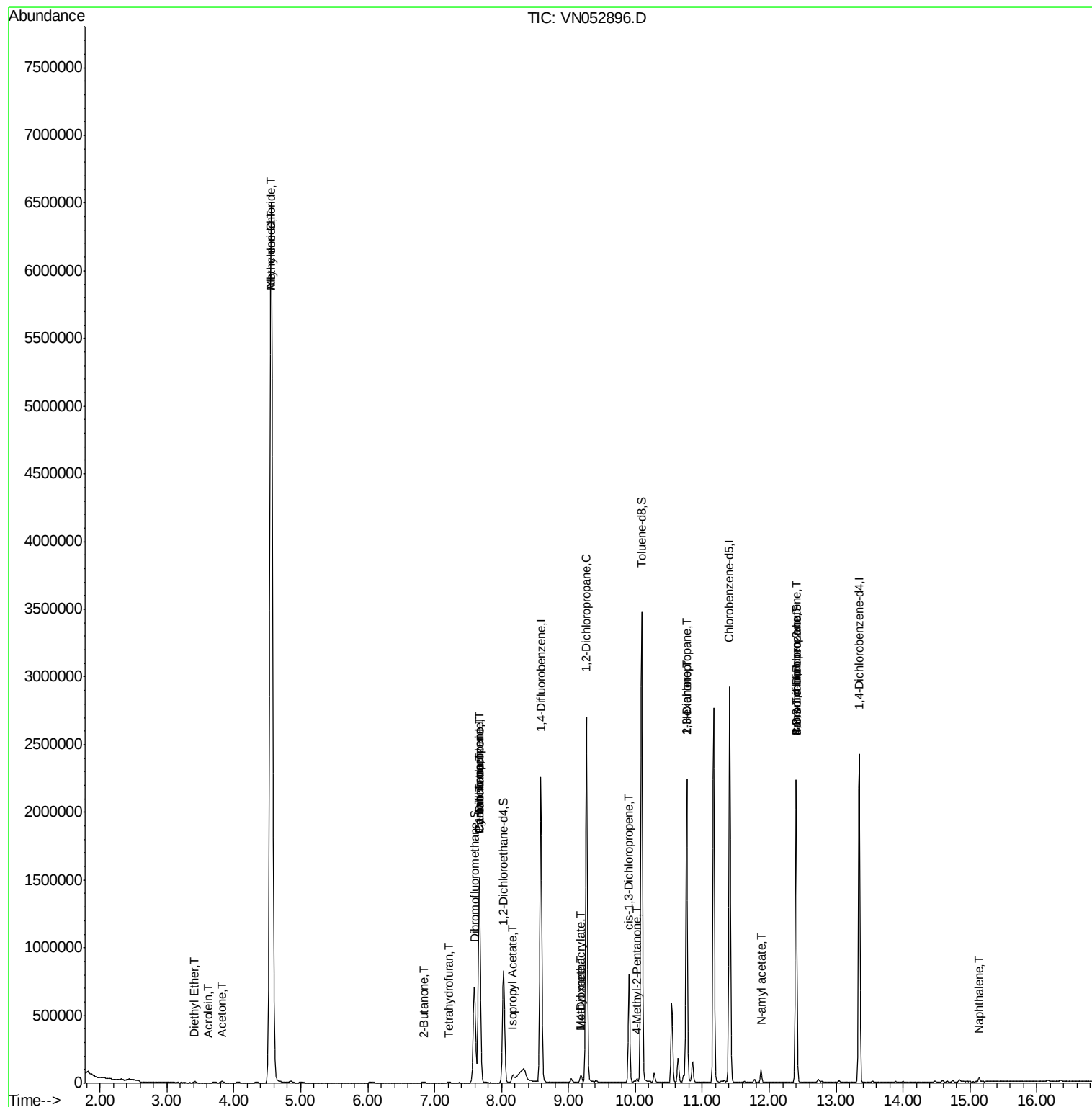
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	5061	0.677	ug/l	74
13) Acrolein	3.62	56	165	0.221	ug/l #	36
14) Allyl chloride	4.55	41	181259	9.031	ug/l #	24
16) Acetone	3.82	43	20541	6.436	ug/l	95
20) Methylene Chloride	4.56	84	5063718	352.547	ug/l	98
25) 2-Butanone	6.84	43	3445	0.696	ug/l #	64
29) Tetrahydrofuran	7.22	42	1834	0.542	ug/l #	45
31) Cyclohexane	7.67	56	22647	0.365	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	89217	4.677	ug/l #	48
38) Carbon Tetrachloride	7.67	117	117076	6.667	ug/l #	16
43) Isopropyl Acetate	8.17	43	77125	3.282	ug/l #	79
45) 1,2-Dichloropropane	9.27	63	3320	0.221	ug/l #	44
48) Methyl methacrylate	9.18	41	18909	1.835	ug/l #	22
49) 1,4-Dioxane	9.20	88	29	0.248	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	22177	2.058	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	147280	6.810	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	23377	1.101	ug/l #	42
59) 2-Hexanone	10.76	43	330671	44.783	ug/l #	50
71) Bromoform	12.40	173	4072	0.468	ug/l #	1
74) N-amyl acetate	11.88	43	29243	2.074	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	363955	35.865	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	363955	115.215	ug/l #	12
95) Naphthalene	15.13	128	26679	1.061	ug/l	99

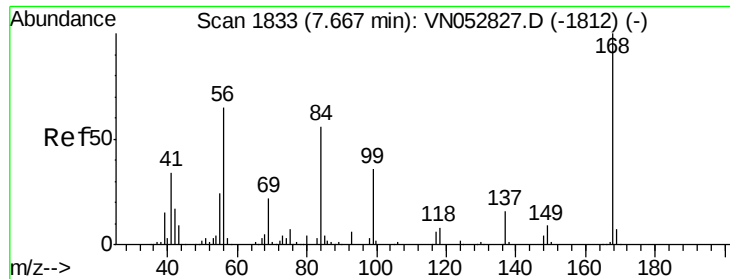
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121418\
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Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

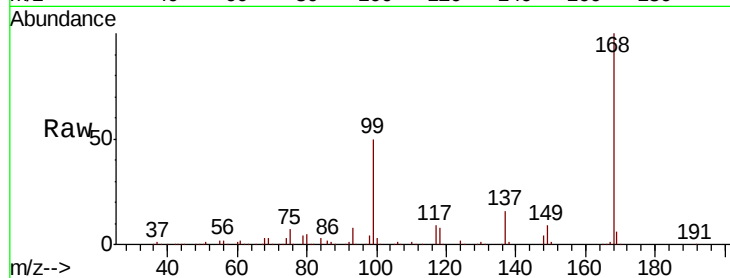
ClientSampled :

Tot Ion:168 Resp: 1336507

Ion Ratio Lower Upper

168 100

99 49.6 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

500000

400000

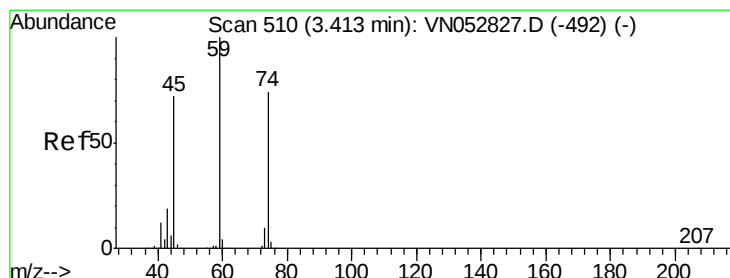
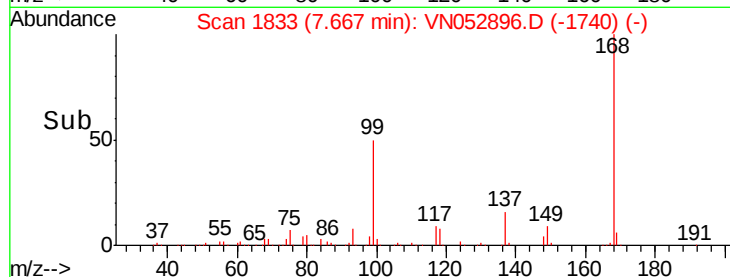
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.677 ug/l

RT: 3.42 min Scan# 512

Delta R.T. 0.01 min

Lab File: VN052896.D

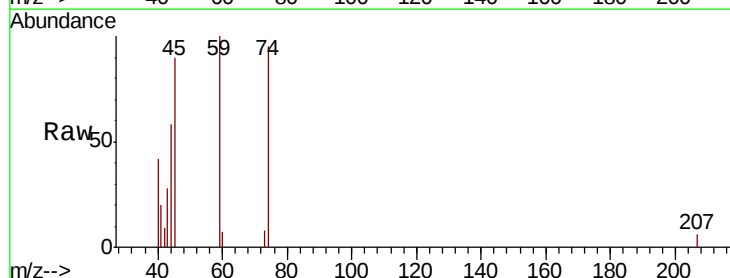
Acq: 14 Dec 2018 18:38

Tgt Ion: 74 Resp: 5061

Ion Ratio Lower Upper

74 100

45 124.5 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

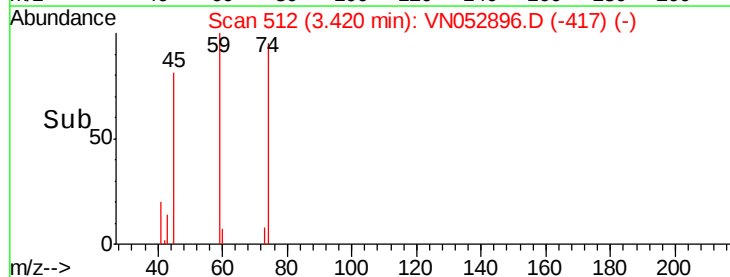
1500

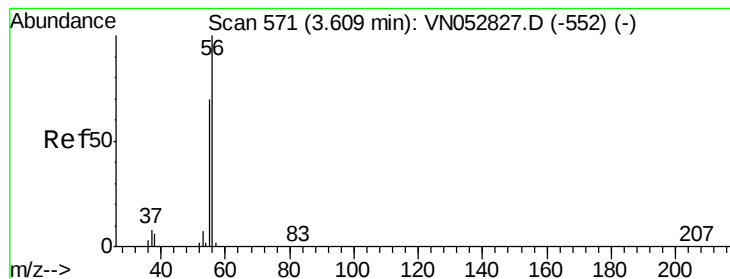
1000

500

0

Time-->





#13

Acrolein

Concen: 0.221 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

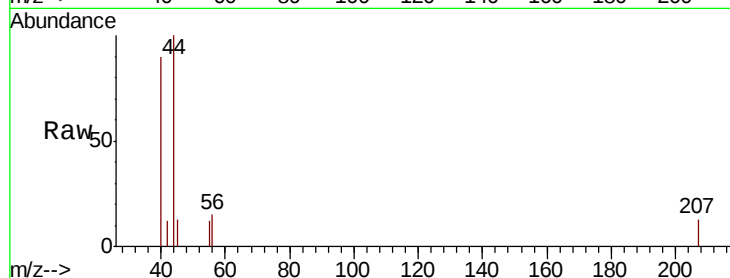
ClientSampleId :

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

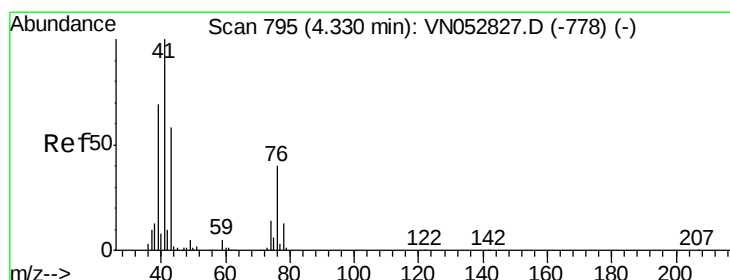
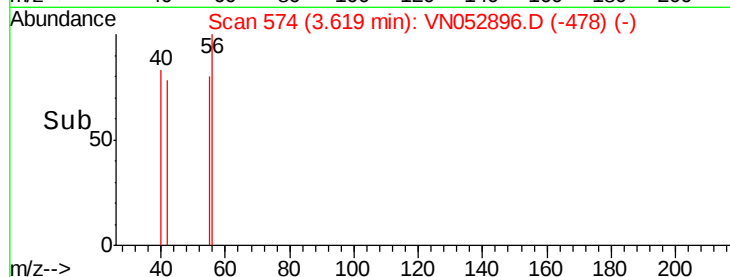
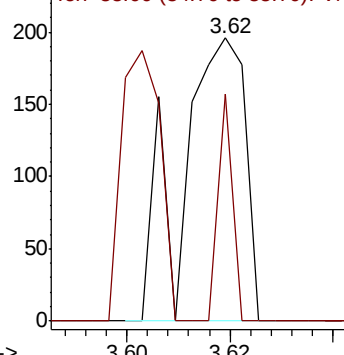
56 100

55 18.2 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 9.031 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.23 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

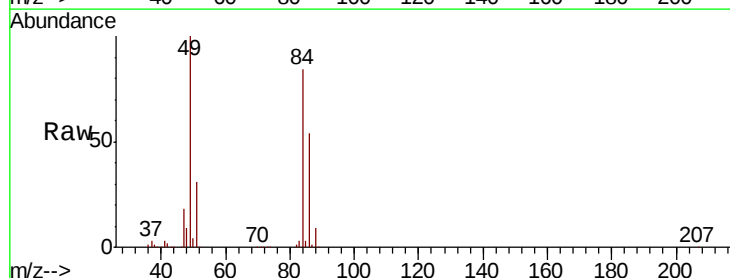
Tgt Ion: 41 Resp: 181259

Ion Ratio Lower Upper

41 100

39 0.5 54.1 81.1#

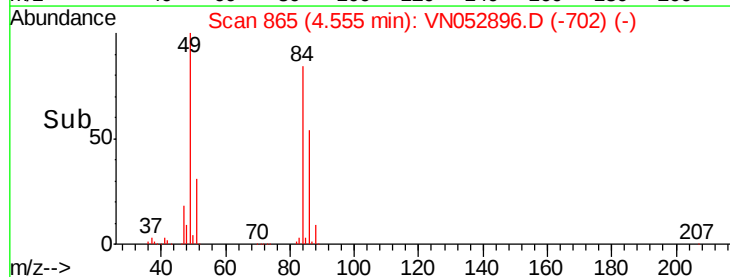
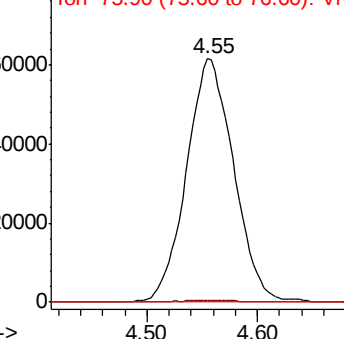
76 0.0 30.3 45.5#

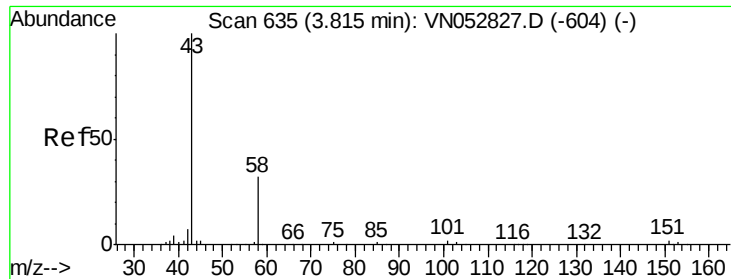


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 6.436 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

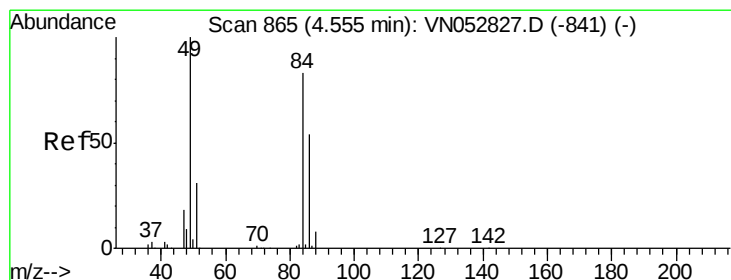
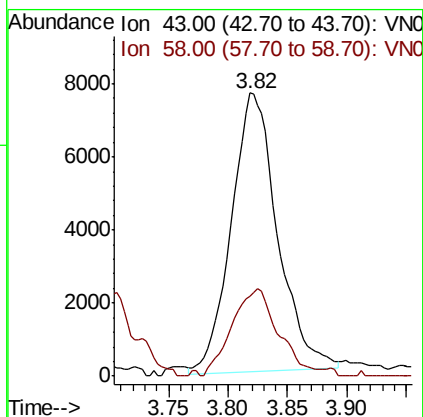
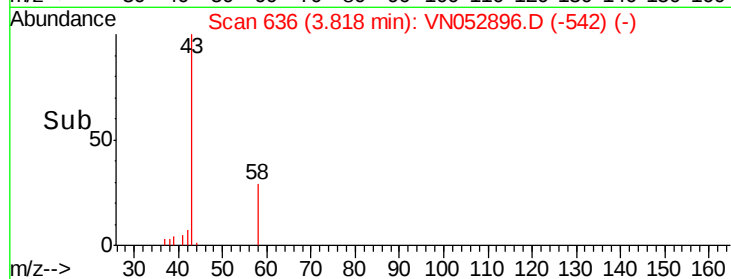
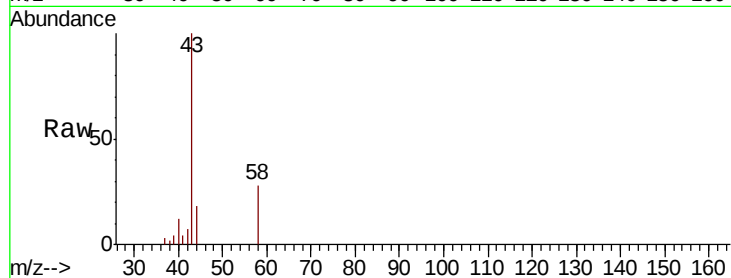
ClientSampleId :

Tot Ion: 43 Resp: 20541

Ion Ratio Lower Upper

43 100

58 29.0 25.4 38.0



#20

Methylene Chloride

Concen: 352.547 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Tgt Ion: 84 Resp: 5063718

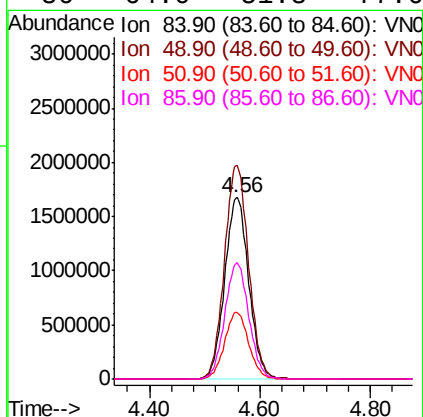
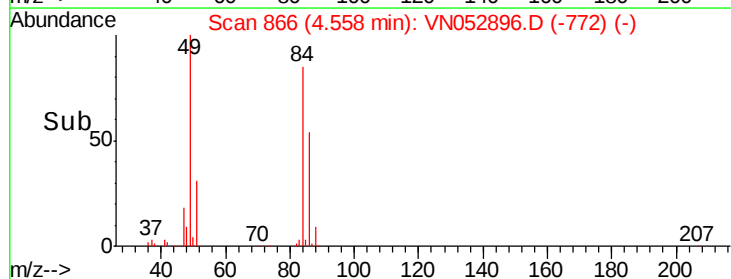
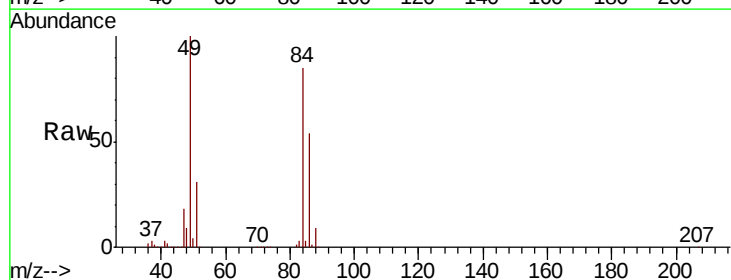
Ion Ratio Lower Upper

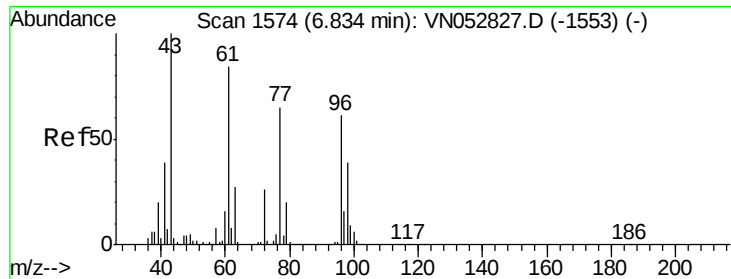
84 100

49 117.9 96.8 145.2

51 36.9 29.9 44.9

86 64.0 51.8 77.6

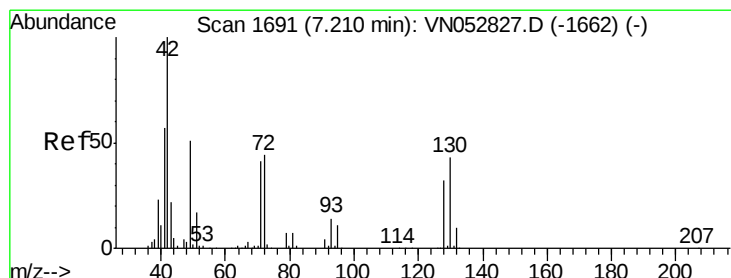
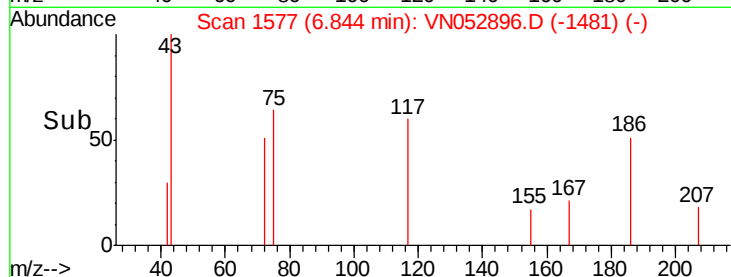
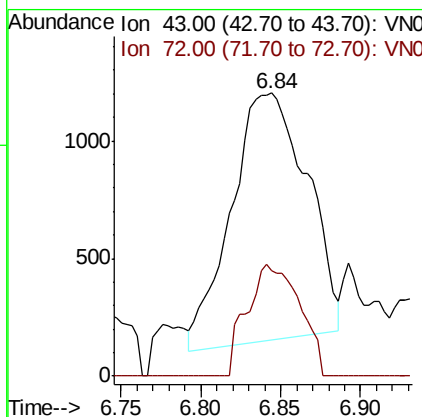
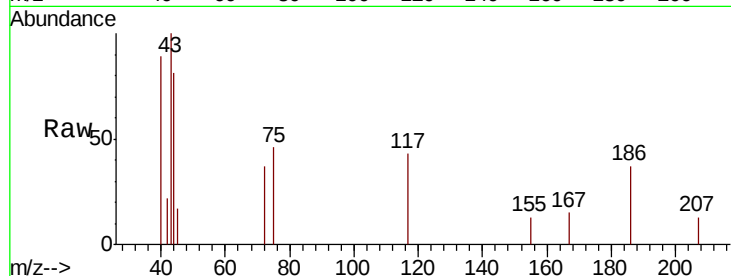




#25
2-Butanone
Concen: 0.696 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

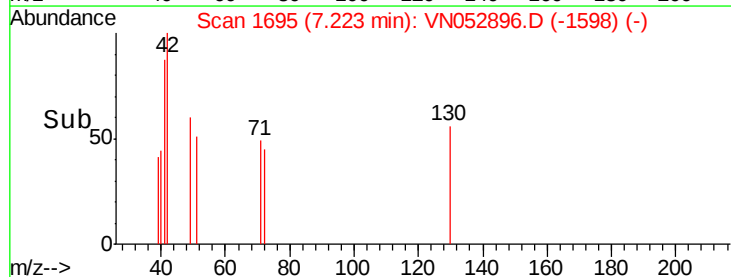
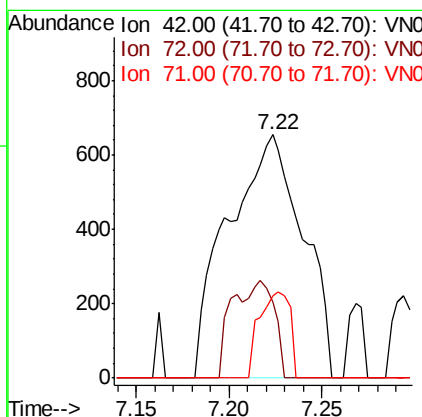
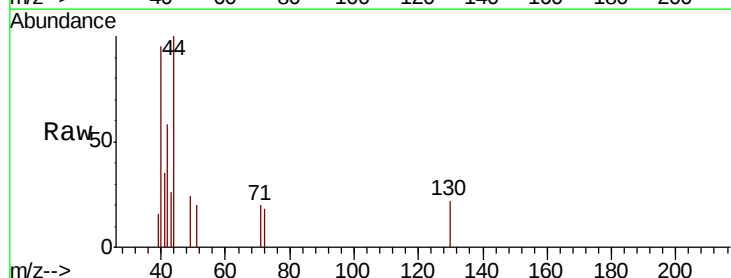
Instrument :
MSVOA_N
ClientSampled :

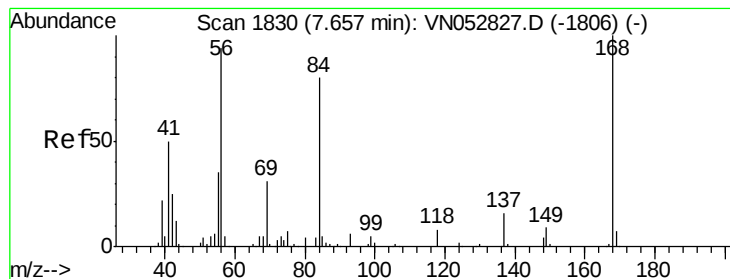
Tot Ion: 43 Resp: 3445
Ion Ratio Lower Upper
43 100
72 44.5 21.0 31.6#



#29
Tetrahydrofuran
Concen: 0.542 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

Tgt Ion: 42 Resp: 1834
Ion Ratio Lower Upper
42 100
72 0.0 34.7 52.1#
71 14.4 32.3 48.5#





#31

Cyclohexane

Concen: 0.365 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

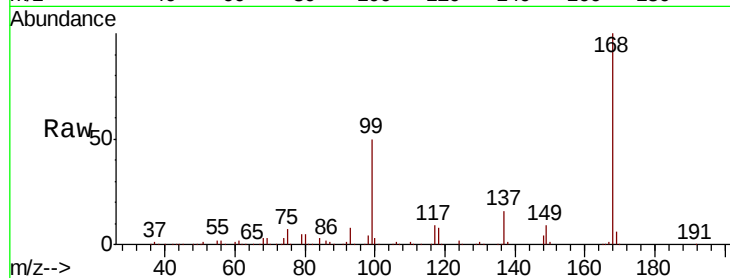
Tot Ion: 56 Resp: 22647

Ion Ratio Lower Upper

56 100

69 178.6 26.6 39.8#

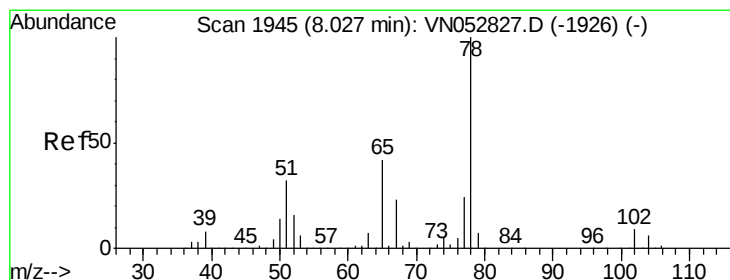
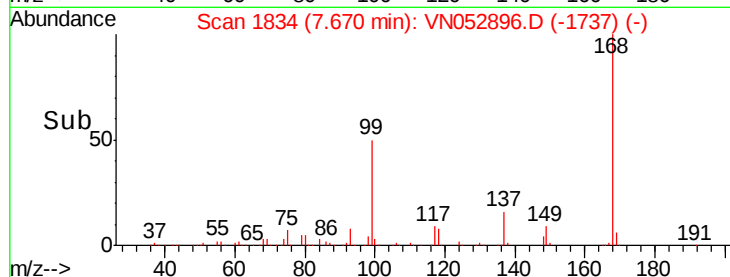
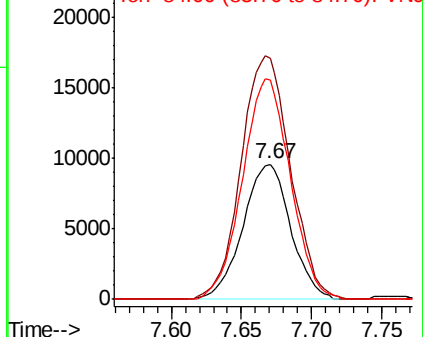
84 162.1 68.4 102.6#



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# 1946

Delta R.T. 0.00 min

Lab File: VN052896.D

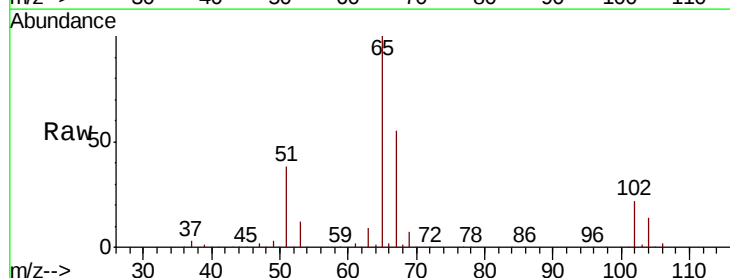
Acq: 14 Dec 2018 18:38

Tgt Ion: 65 Resp: 690476

Ion Ratio Lower Upper

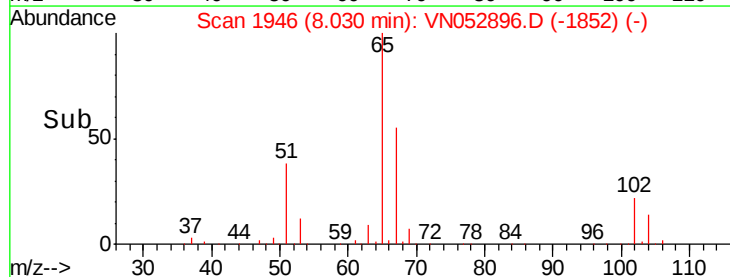
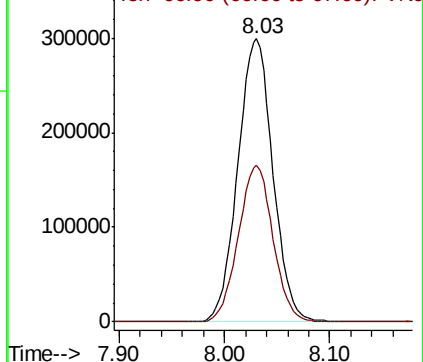
65 100

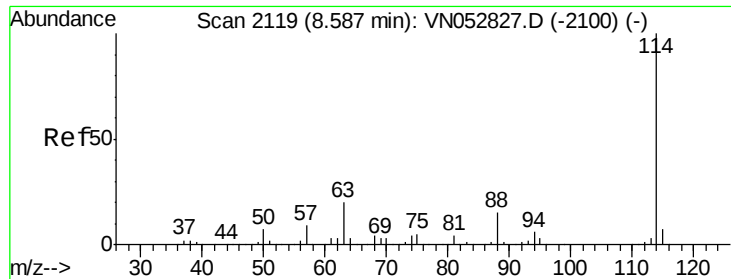
67 54.7 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

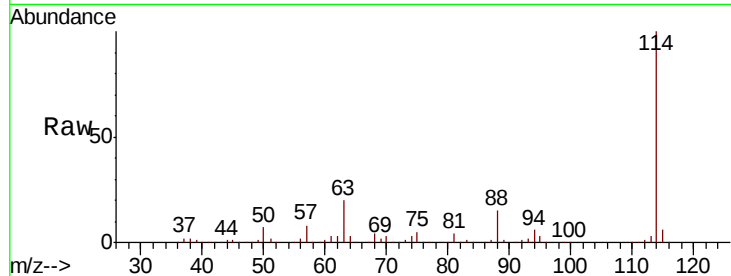




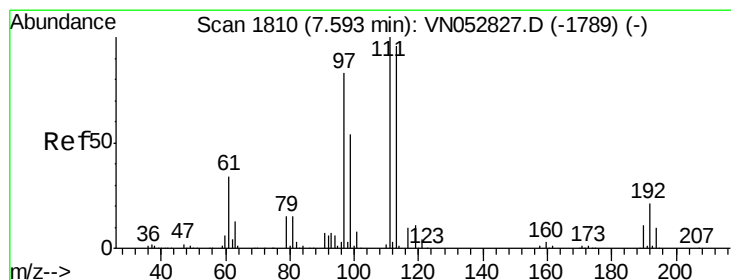
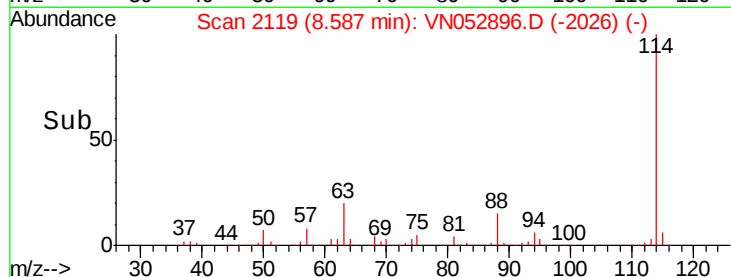
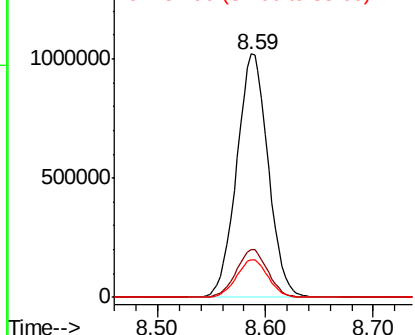
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 2071668
Ion Ratio Lower Upper
114 100
63 19.6 0.0 39.8
88 15.3 0.0 31.0

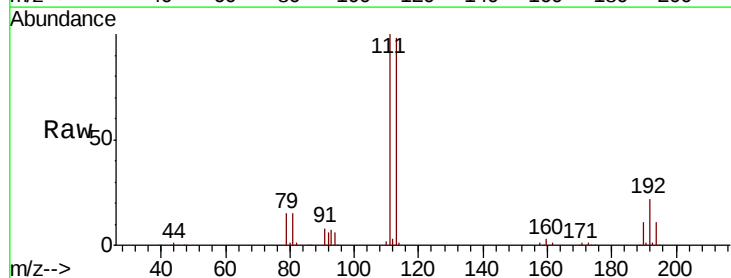


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

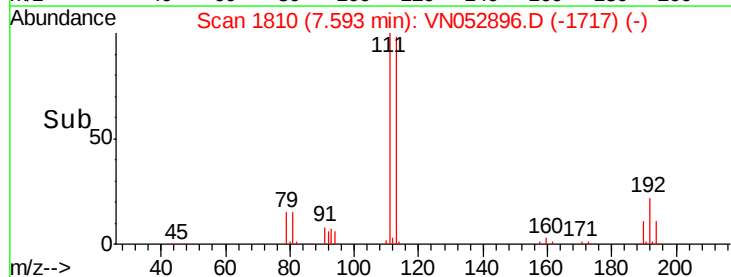
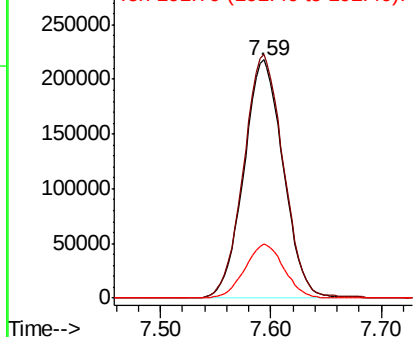


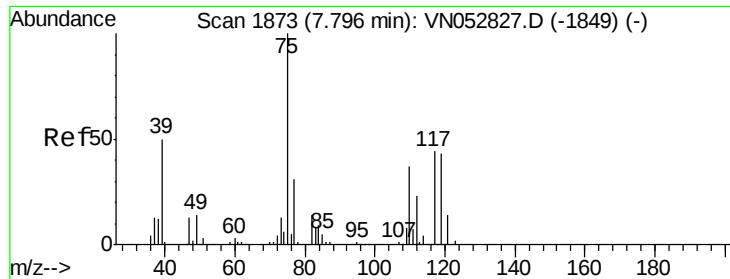
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

Tgt Ion:113 Resp: 538355
Ion Ratio Lower Upper
113 100
111 103.6 83.0 124.4
192 22.5 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

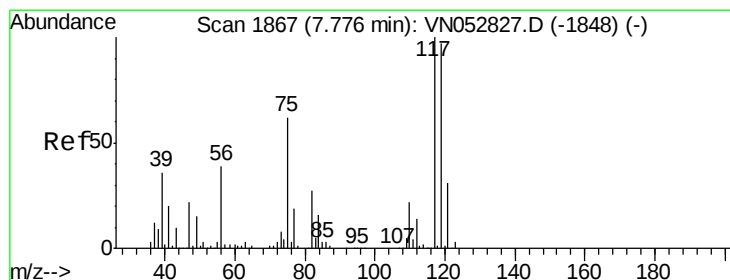
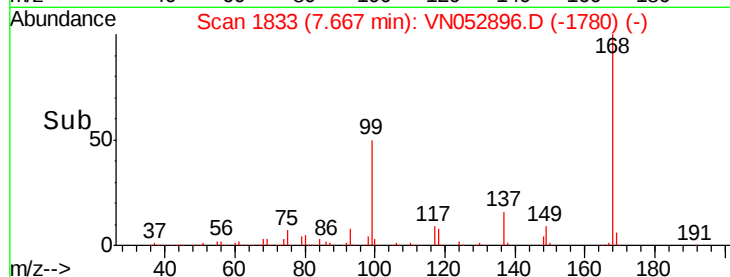
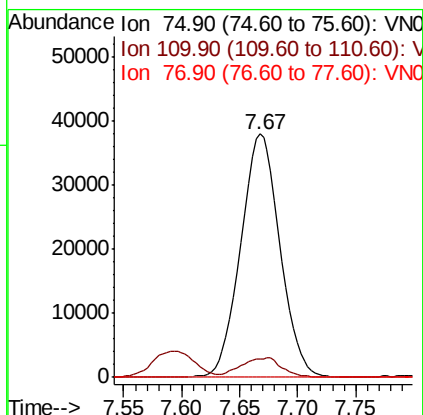
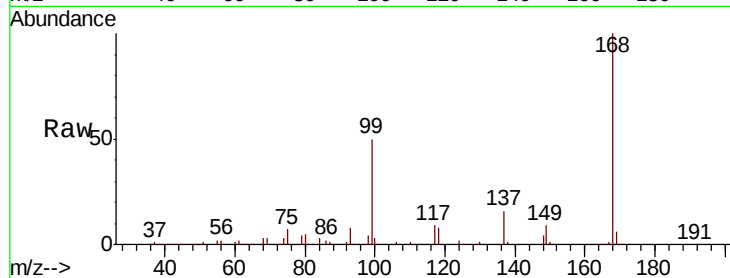




#36
 1,1-Dichloropropene
 Concen: 4.677 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052896.D
 Acq: 14 Dec 2018 18:38

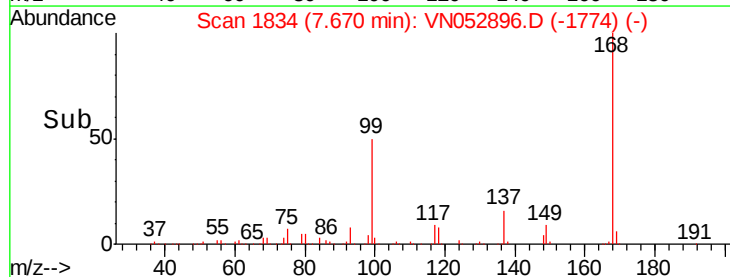
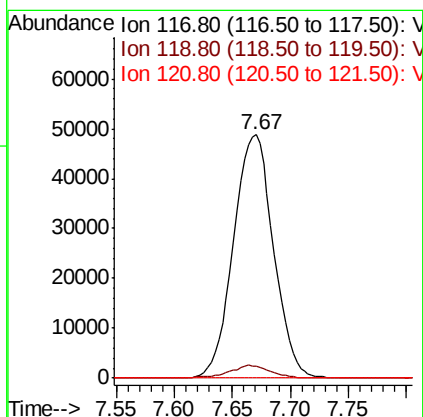
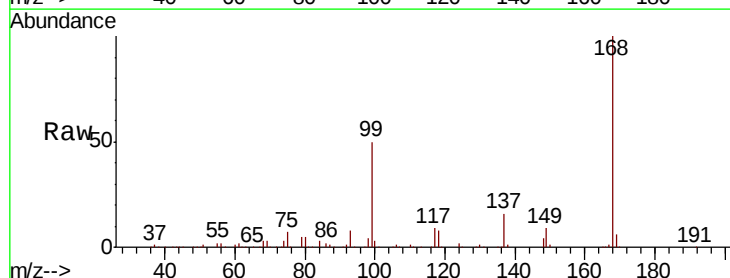
Instrument :
 MSVOA_N
 ClientSampleId :

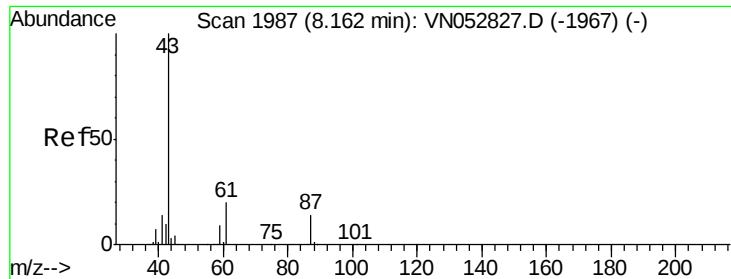
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.2	54.6#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.667 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN052896.D
 Acq: 14 Dec 2018 18:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.1	115.7#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 3.282 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

ClientSampled :

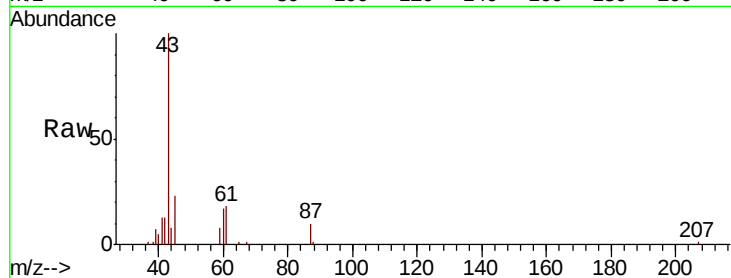
Tot Ion: 43 Resp: 77125

Ion Ratio Lower Upper

43 100

61 15.2 22.9 34.3#

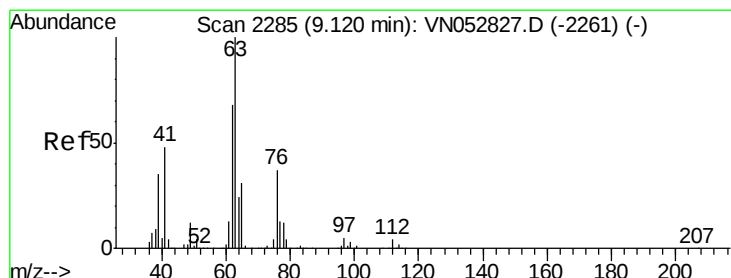
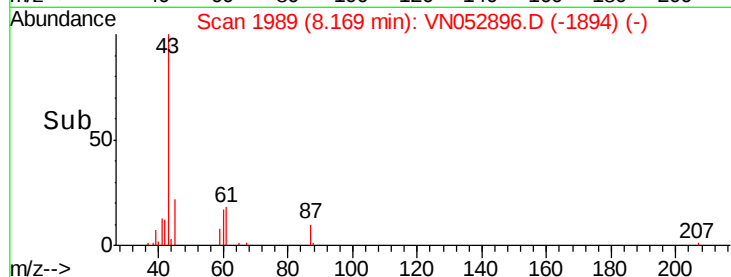
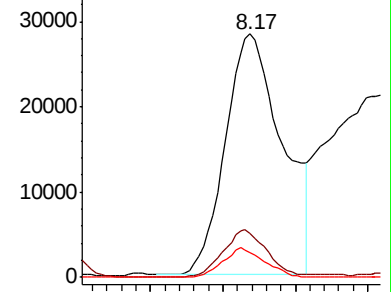
87 8.8 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN052827.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN052827.D (-1967) (-)



#45

1,2-Dichloropropane

Concen: 0.221 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN052896.D

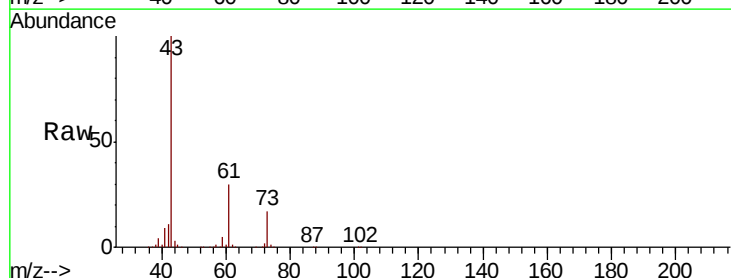
Acq: 14 Dec 2018 18:38

Tgt Ion: 63 Resp: 3320

Ion Ratio Lower Upper

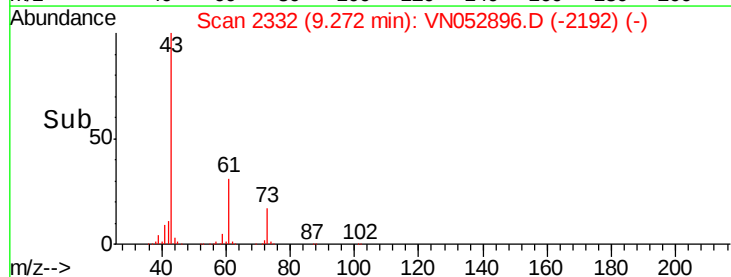
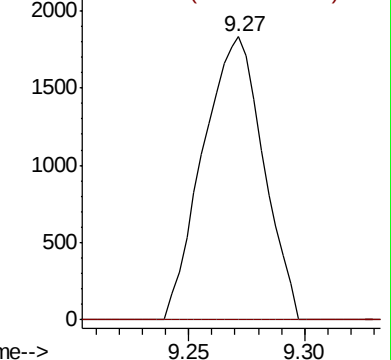
63 100

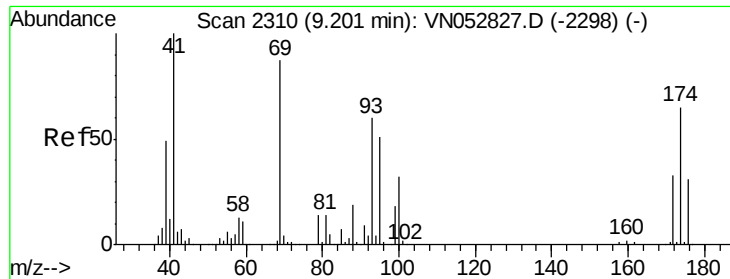
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN052827.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN052827.D (-2261) (-)

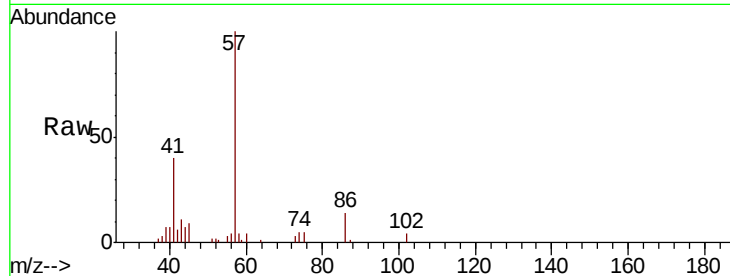




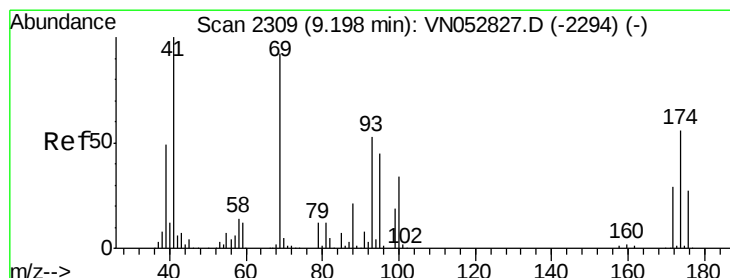
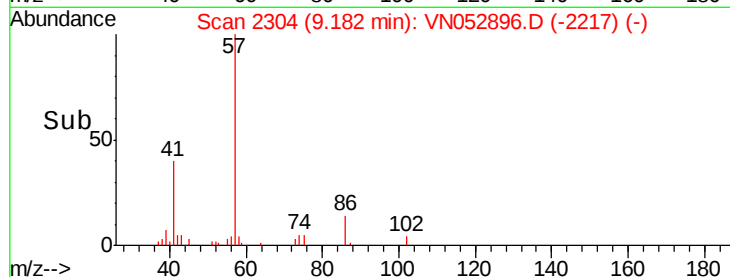
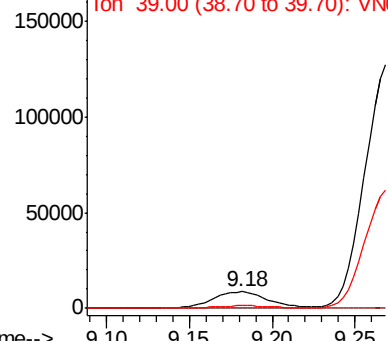
#48
Methvl methacrylate
Concen: 1.835 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 18909
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 18.9 41.9 62.9#

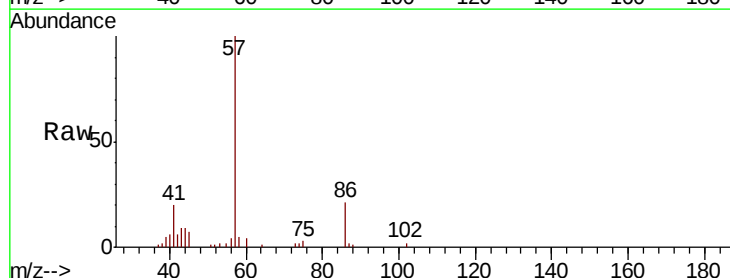


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

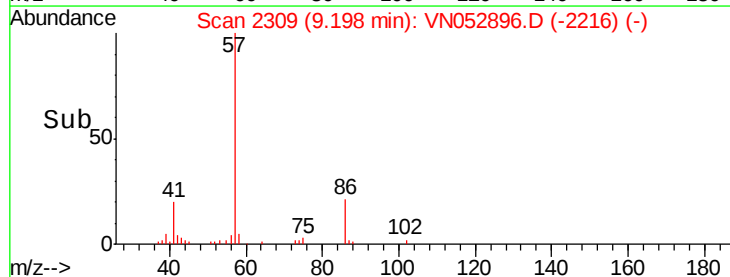
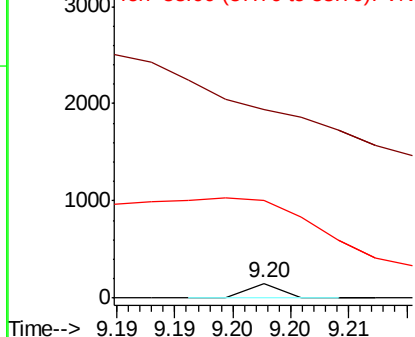


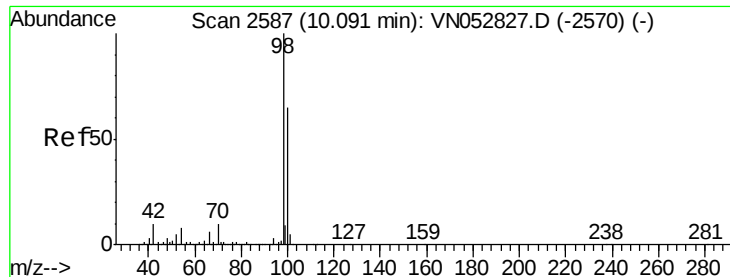
#49
1,4-Dioxane
Concen: 0.248 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 26.6 40.0#
58 7610.3 58.4 87.6#



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





#50

Toluene-d8

Concen: 0.248 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

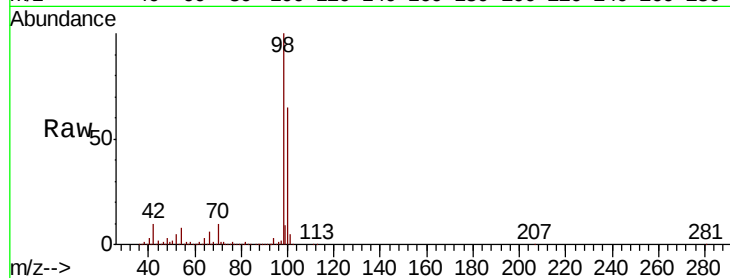
ClientSampleId :

Tot Ion: 98 Resp: 2484175

Ion Ratio Lower Upper

98 100

100 64.7 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

1500000

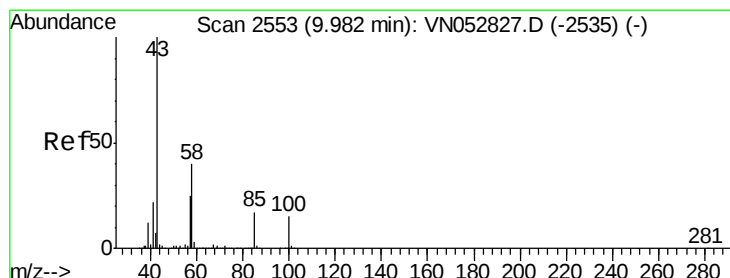
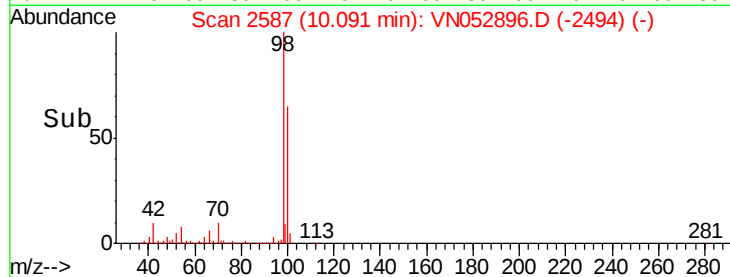
1000000

500000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 2.058 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052896.D

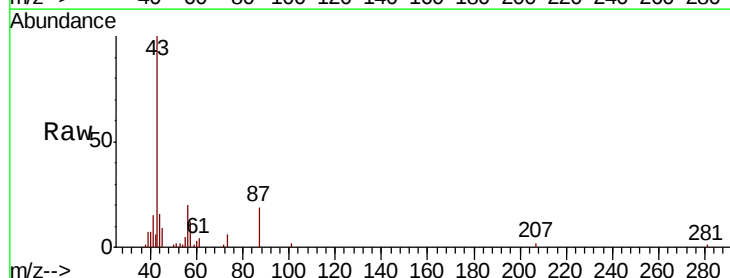
Acq: 14 Dec 2018 18:38

Tgt Ion: 43 Resp: 22177

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

15000

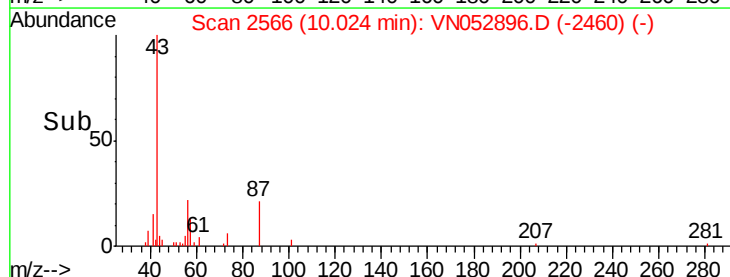
10000

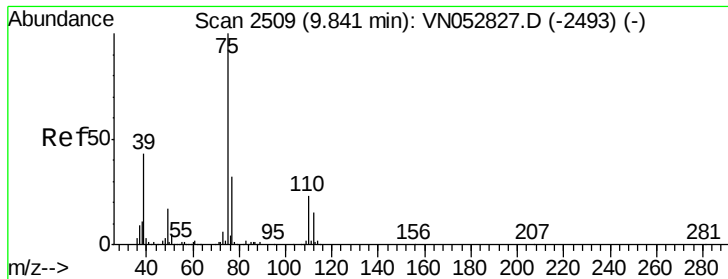
5000

0

Time-->

10.00 10.05





#54

cis-1,3-Dichloropropene

Concen: 6.810 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

ClientSampled :

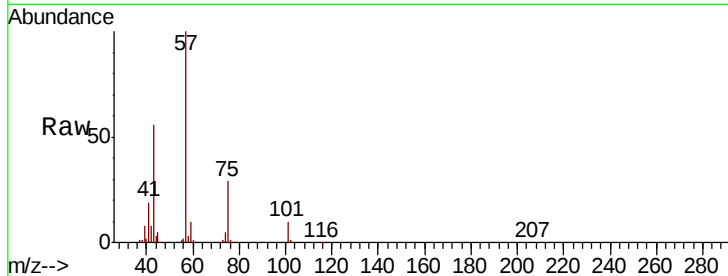
Tot Ion: 75 Resp: 147280

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

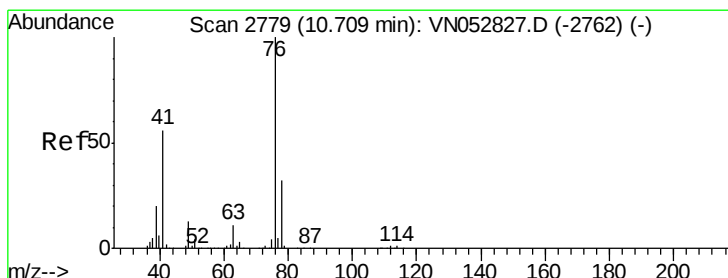
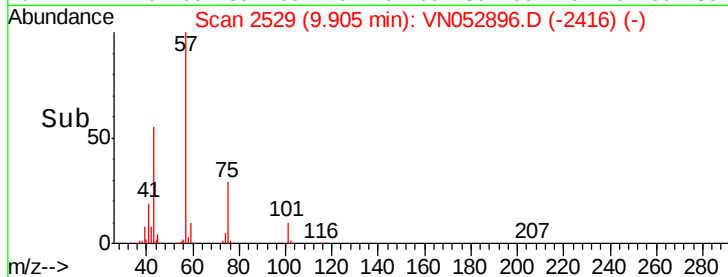
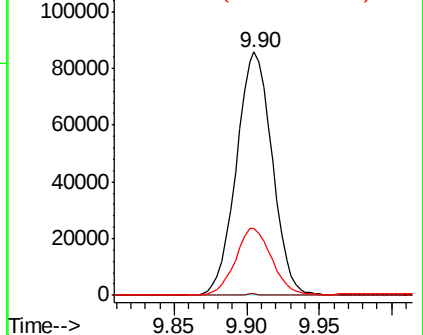
39 27.5 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.101 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052896.D

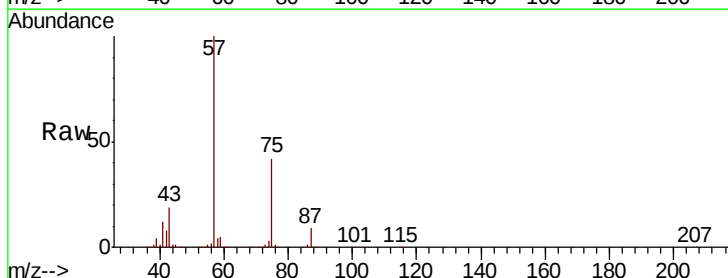
Acq: 14 Dec 2018 18:38

Tgt Ion: 76 Resp: 23377

Ion Ratio Lower Upper

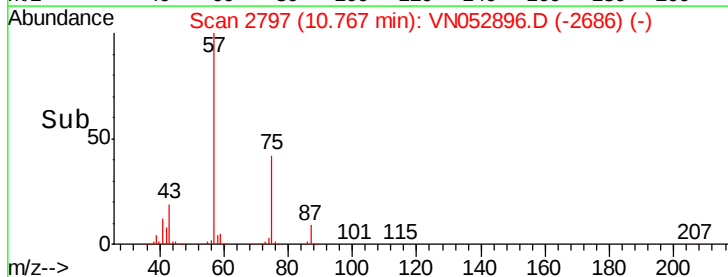
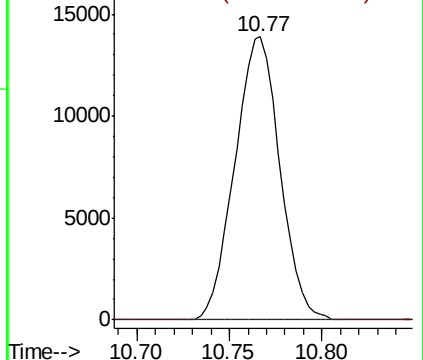
76 100

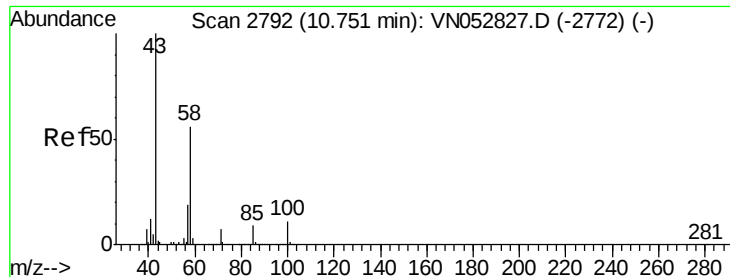
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

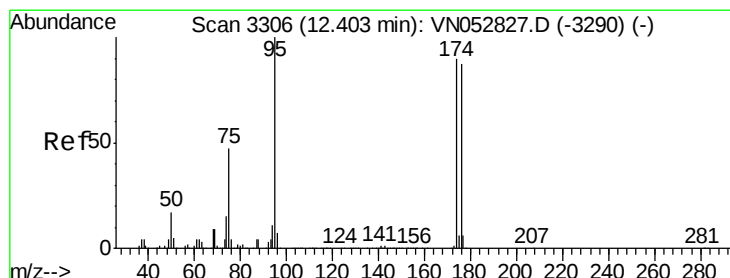
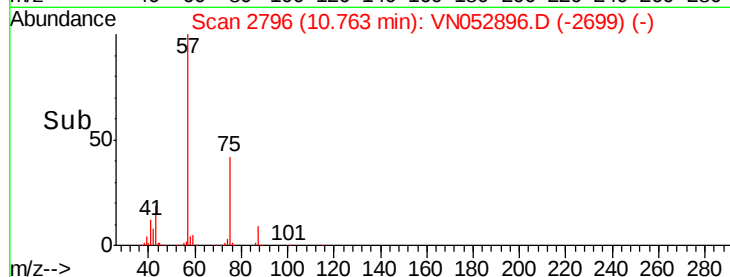
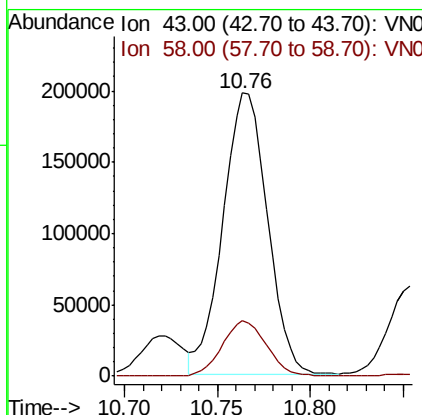
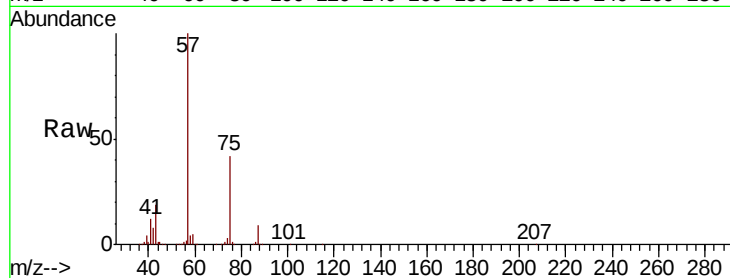




#59
2-Hexanone
Concen: 44.783 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

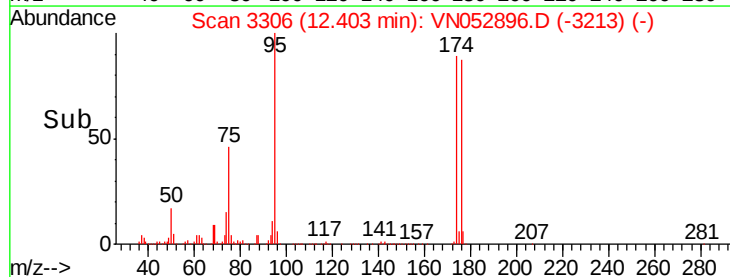
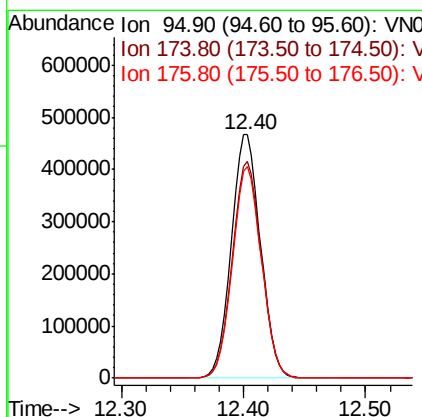
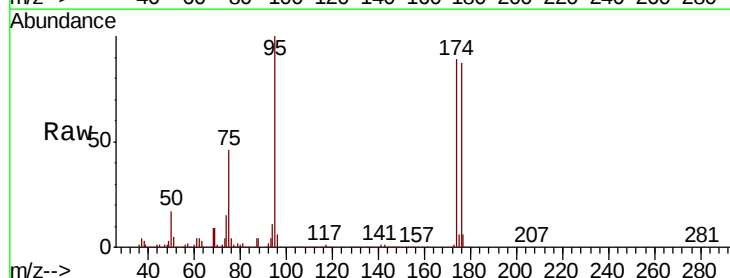
Instrument :
MSVOA_N
ClientSampleId :

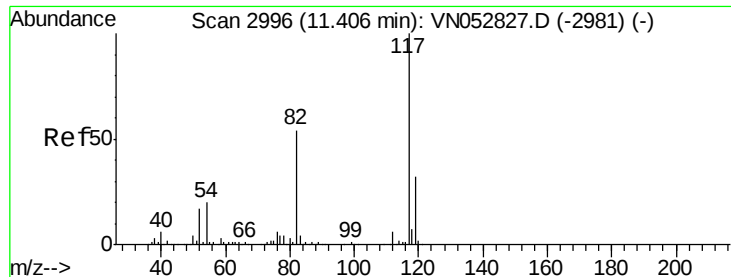
Tot Ion: 43 Resp: 330671
Ion Ratio Lower Upper
43 100
58 19.5 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

Tgt Ion: 95 Resp: 777501
Ion Ratio Lower Upper
95 100
174 88.8 0.0 178.8
176 86.2 0.0 173.8

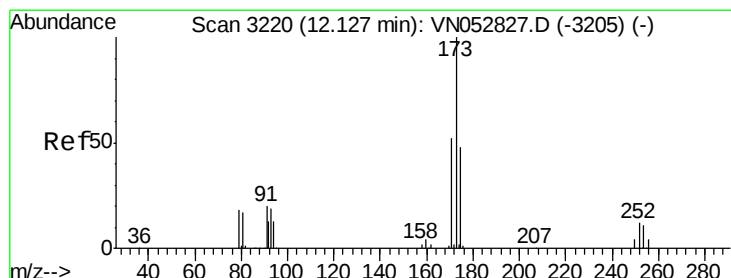
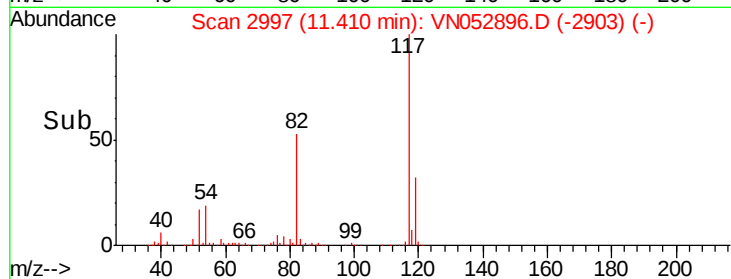
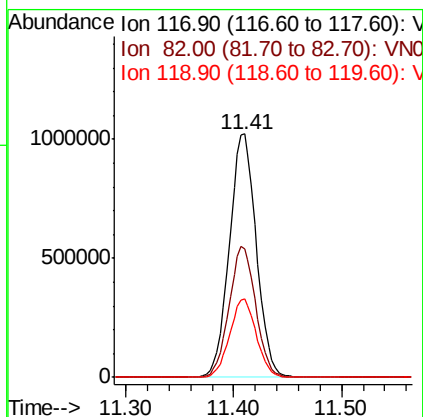
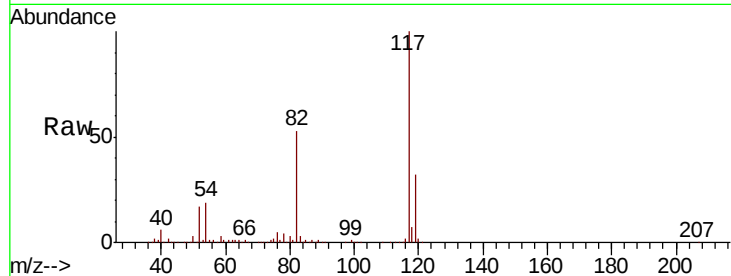




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

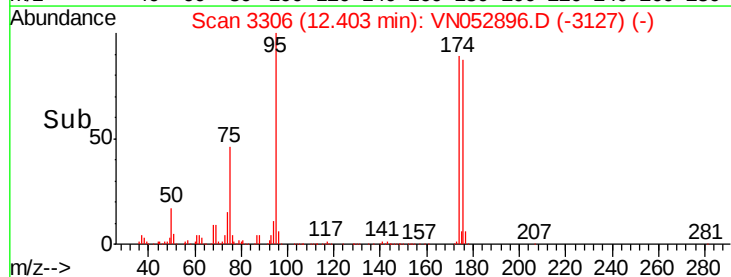
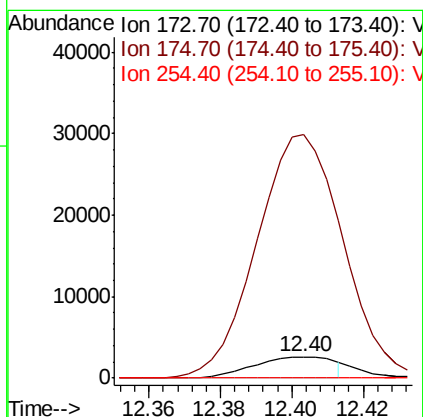
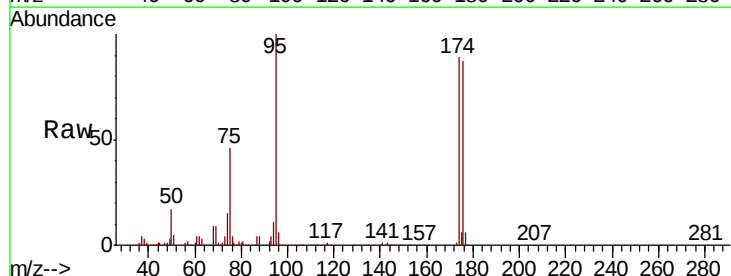
Instrument :
MSVOA_N
ClientSampled :

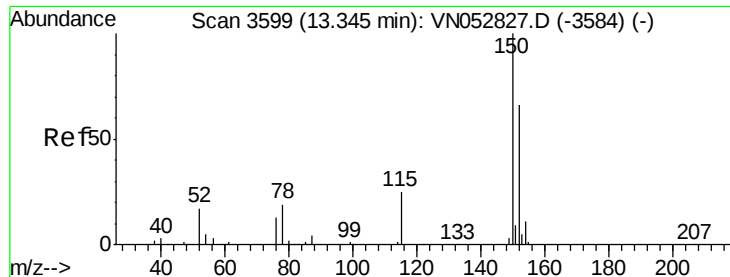
Tot Ion:117 Resp: 1776716
Ion Ratio Lower Upper
117 100
82 53.0 42.8 64.2
119 32.1 25.5 38.3



#71
Bromoform
Concen: 0.468 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

Tgt Ion:173 Resp: 4072
Ion Ratio Lower Upper
173 100
175 1064.6 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

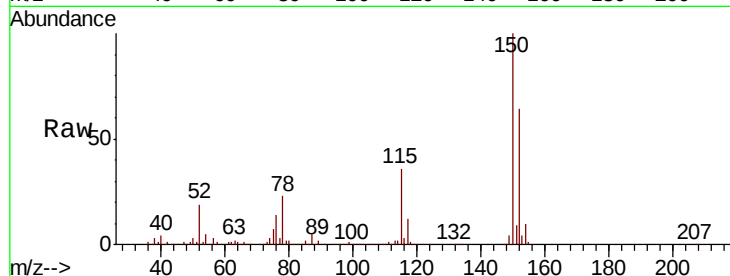
Tot Ion:152 Resp: 687818

Ion Ratio Lower Upper

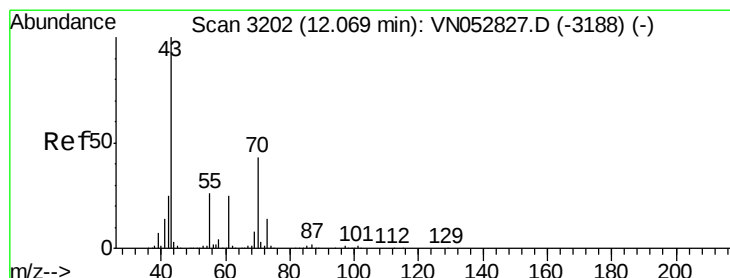
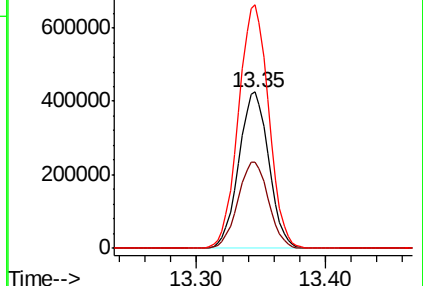
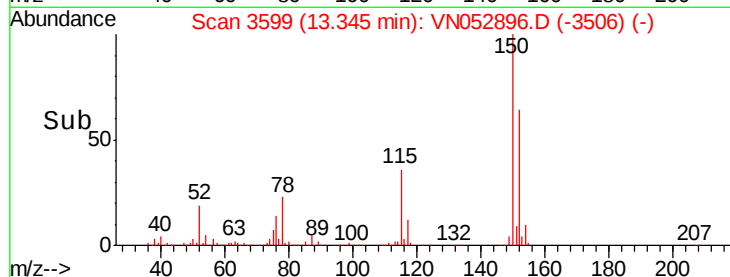
152 100

115 56.2 28.3 85.0

150 156.9 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-ethyl acetate

Concen: 2.074 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Tgt Ion: 43 Resp: 29243

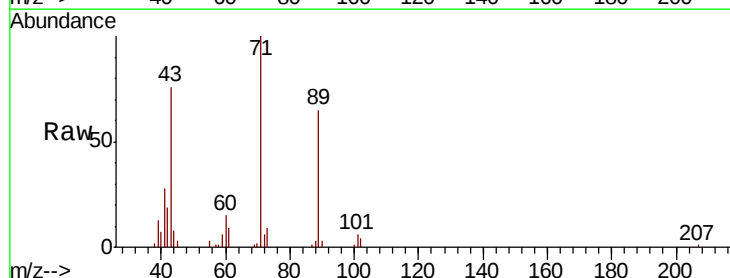
Ion Ratio Lower Upper

43 100

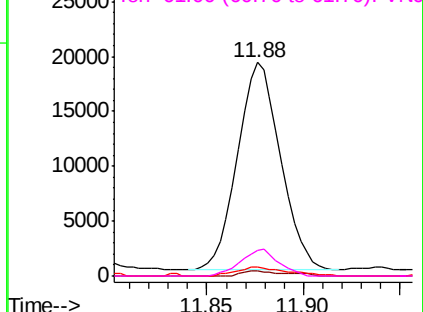
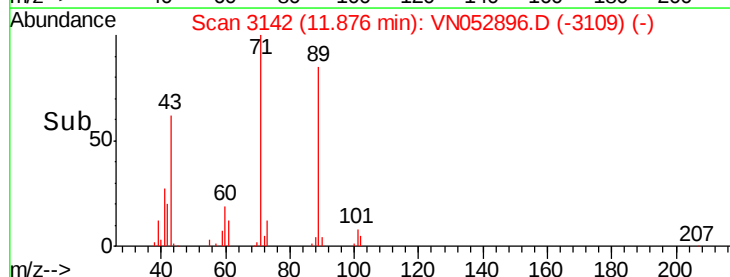
70 2.6 34.2 51.4#

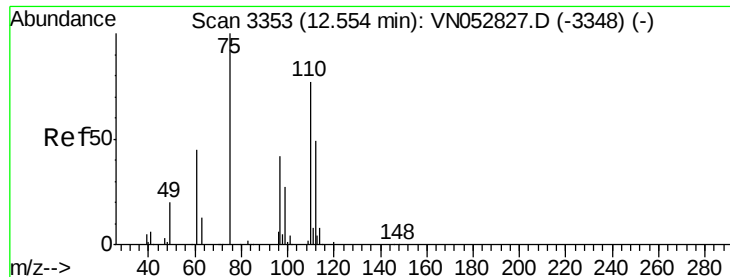
55 5.1 20.3 30.5#

61 11.2 20.0 30.0#



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





#76

1,2,3-Trichloropropane

Concen: 35.865 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

Instrument :

MSVOA_N

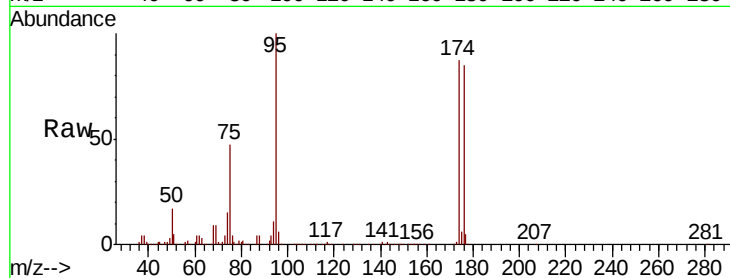
ClientSampleId :

Tot Ion: 75 Resp: 363955

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

250000

200000

150000

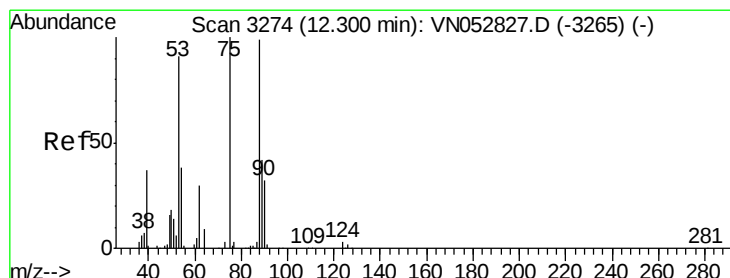
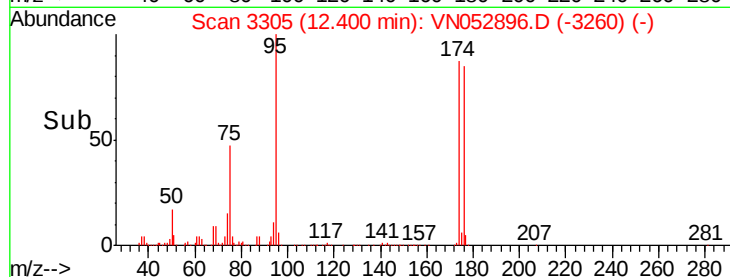
100000

50000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 115.215 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052896.D

Acq: 14 Dec 2018 18:38

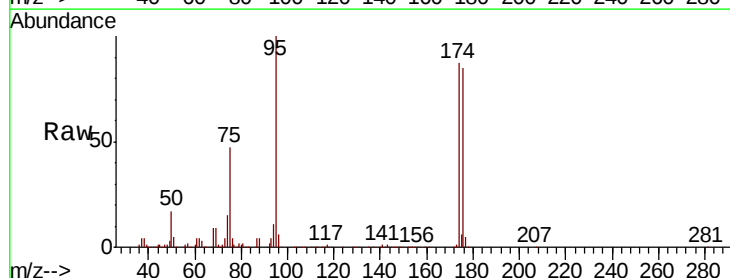
Tgt Ion: 75 Resp: 363955

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

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

300000

250000

200000

150000

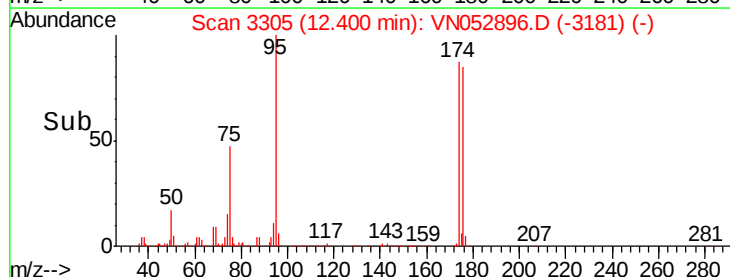
100000

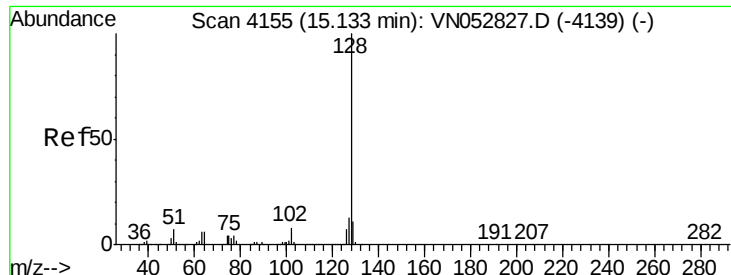
50000

0

12.35 12.40 12.45

Time-->

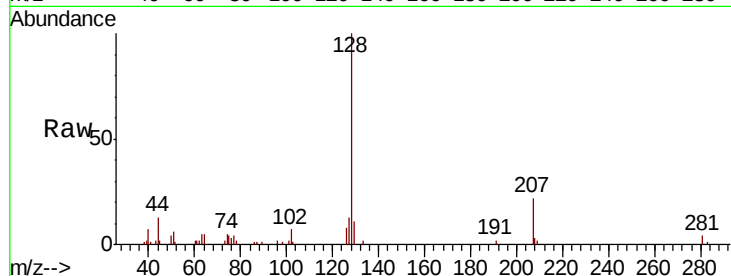




#95
Naphthalene
Concen: 1.061 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052896.D
Acq: 14 Dec 2018 18:38

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.4
129	10.7	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

