

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051221.D
 Acq On : 15 Sep 2018 14:41
 Operator : MD\SY
 Sample : PB112879ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

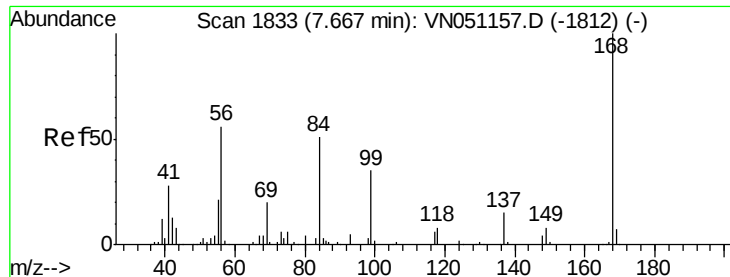
Quant Time: Sep 17 02:14:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	456672	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	699847	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	577868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	176160	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	237642	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	
35) Dibromofluoromethane	7.59	113	258226	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	10.09	98	899108	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	
62) 4-Bromofluorobenzene	12.40	95	241499	36.59	ug/l	0.00
Spiked Amount			Recovery	=	73.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2247	Below Cal		99
5) Bromomethane	2.58	94	2688	Below Cal	#	77
10) Methyl Iodide	3.95	142	878	5.79	ug/l #	53
11) Tert butyl alcohol	4.79	59	384	0.99	ug/l #	73
16) Acetone	3.82	43	9000	1.36	ug/l	94
17) Carbon Disulfide	4.05	76	2901	0.31	ug/l #	76
18) Methyl Acetate	4.33	43	10047	2.47	ug/l #	74
20) Methylene Chloride	4.55	84	6180	1.10	ug/l	93
25) 2-Butanone	6.86	43	5813	2.91	ug/l #	84
29) Tetrahydrofuran	7.22	42	645	0.52	ug/l #	49
31) Cyclohexane	7.66	56	3792	0.23	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	29706	3.87	ug/l #	43
38) Carbon Tetrachloride	7.67	117	38856	5.14	ug/l #	17
43) Isopropyl Acetate	8.17	43	210294	26.78	ug/l #	86
48) Methyl methacrylate	9.18	41	5837	1.53	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1451	0.33	ug/l	93
56) Ethyl methacrylate	10.27	69	29	2.46	ug/l #	1
59) 2-Hexanone	10.76	43	13588	4.61	ug/l	66
75) 1,1,2,2-Tetrachloroethane	12.50	83	61	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	112851	41.05	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	112851	121.66	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	765	4.20	ug/l #	53
94) Hexachlorobutadiene	15.01	225	270	Below Cal	#	19
95) Naphthalene	15.13	128	1712	5.57	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.32	180	617	3.14	ug/l #	76

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

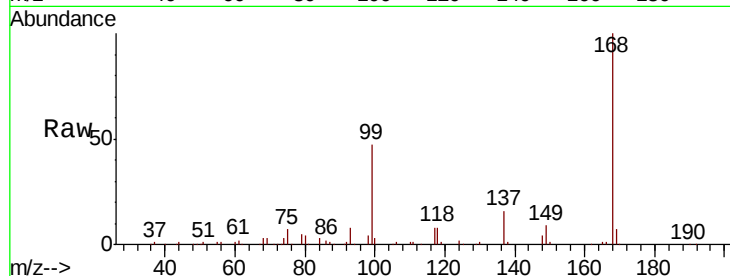


#1

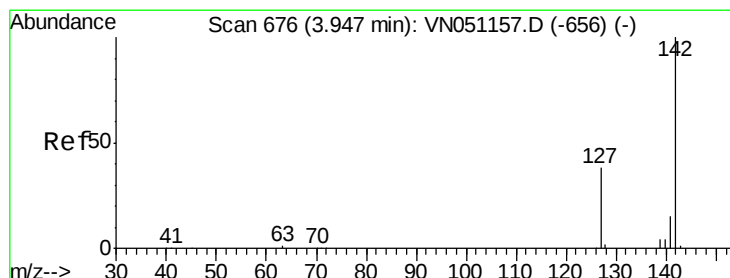
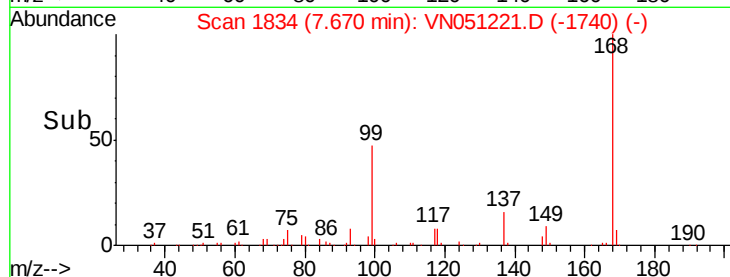
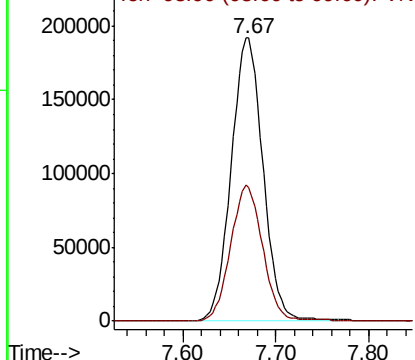
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: VN051221.D
 Acq: 15 Sep 2018 14:41

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:168 Resp: 456672
 Ion Ratio Lower Upper
 168 100
 99 47.2 38.3 57.5



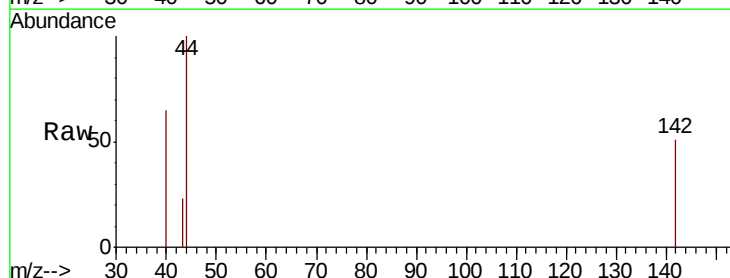
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VN



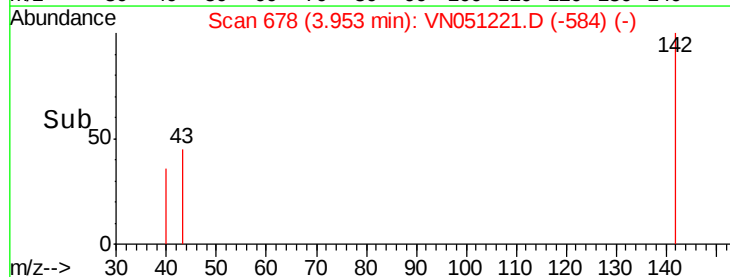
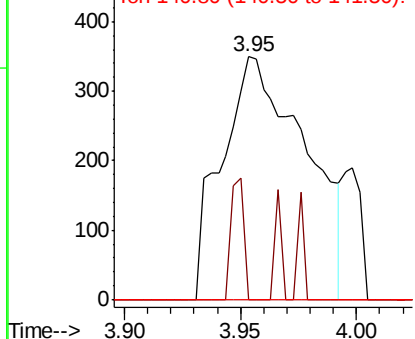
#10

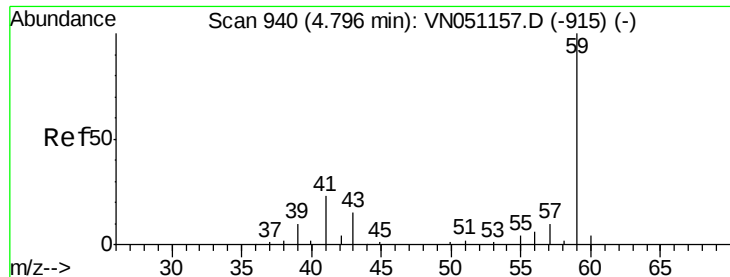
Methyl Iodide
 Concen: 5.79 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VN051221.D
 Acq: 15 Sep 2018 14:41

Tgt Ion:142 Resp: 878
 Ion Ratio Lower Upper
 142 100
 127 7.4 31.0 46.4#
 141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V
 Ion 126.80 (126.50 to 127.50): V
 Ion 140.80 (140.50 to 141.50): V

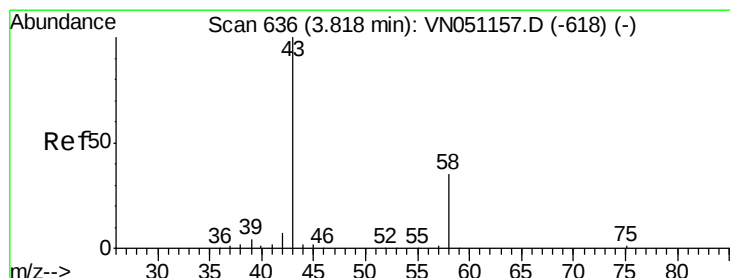
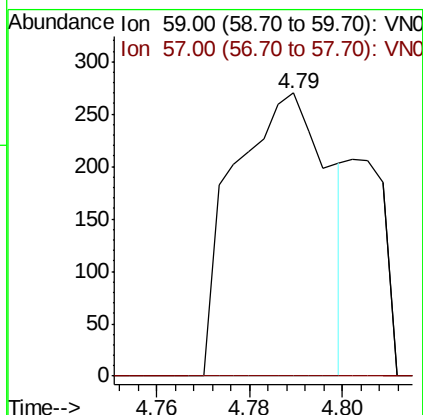
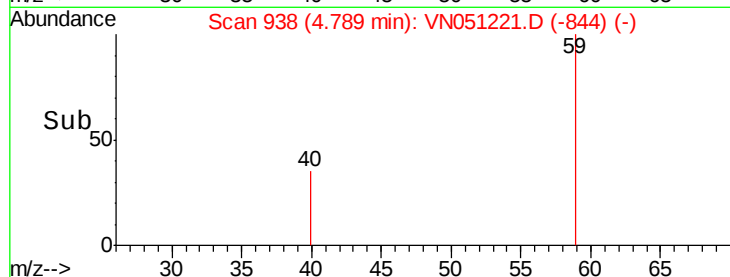
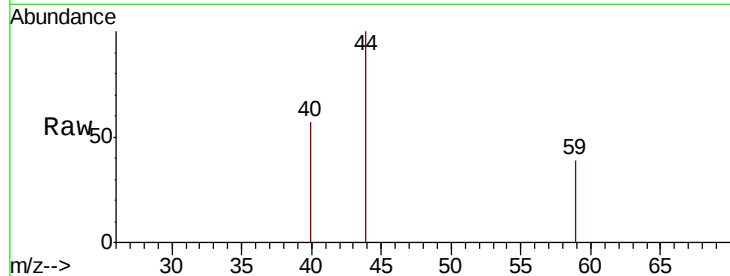




#11
Tert butyl alcohol
Concen: 0.99 ug/l
RT: 4.79 min Scan# 938
Delta R.T. 0.00 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

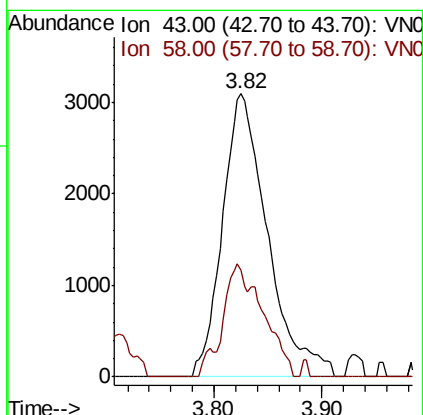
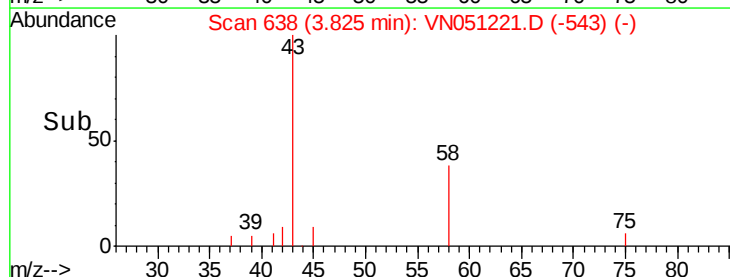
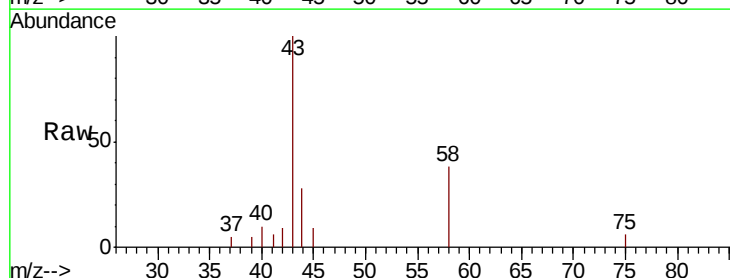
Instrument :
MSVOA_N
ClientSampleId :

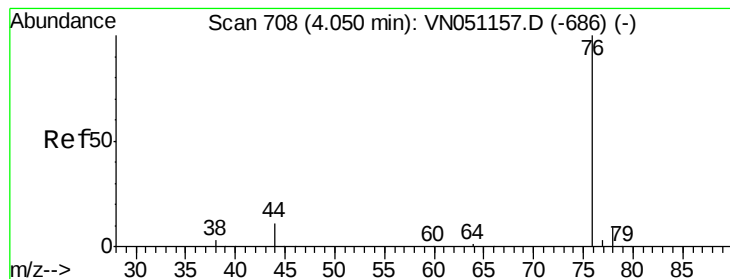
Tot Ion: 59 Resp: 384
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 1.36 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

Tgt Ion: 43 Resp: 9000
Ion Ratio Lower Upper
43 100
58 37.9 27.8 41.6





#17

Carbon Disulfide

Concen: 0.31 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

Instrument :

MSVOA_N

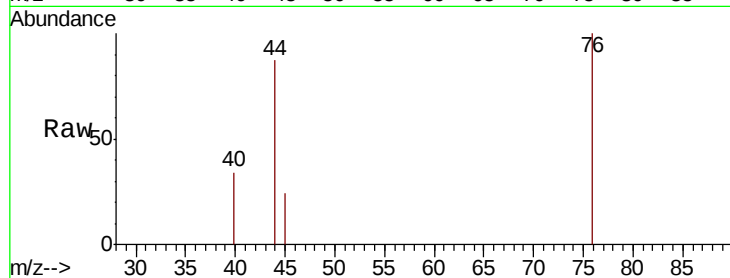
ClientSampled :

Tot Ion: 76 Resp: 2901

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

1200

1000

800

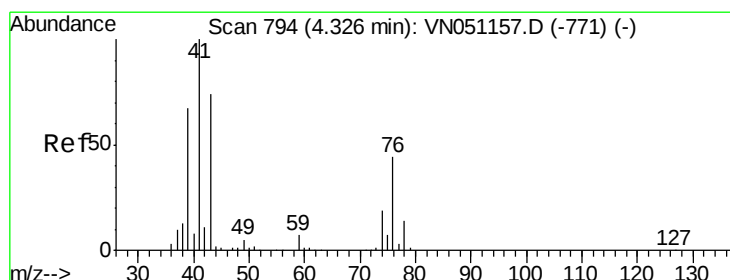
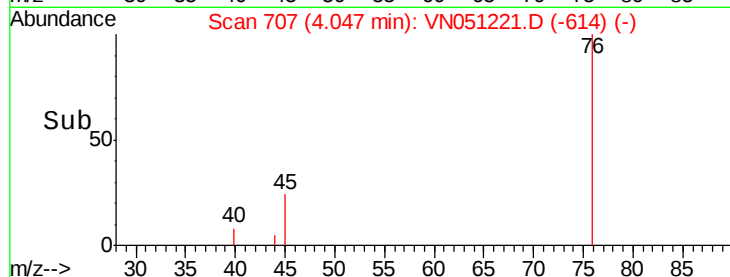
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 2.47 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051221.D

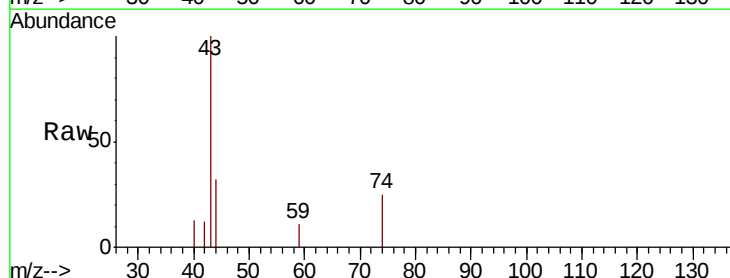
Acq: 15 Sep 2018 14:41

Tgt Ion: 43 Resp: 10047

Ion Ratio Lower Upper

43 100

74 12.7 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

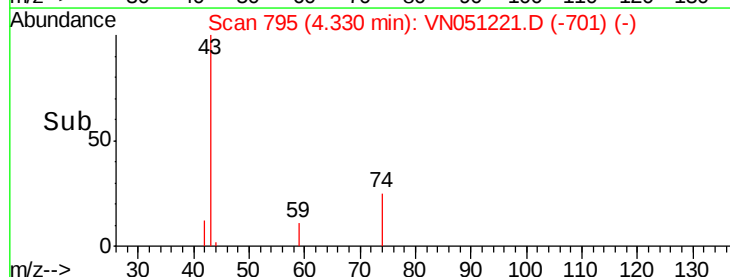
3000

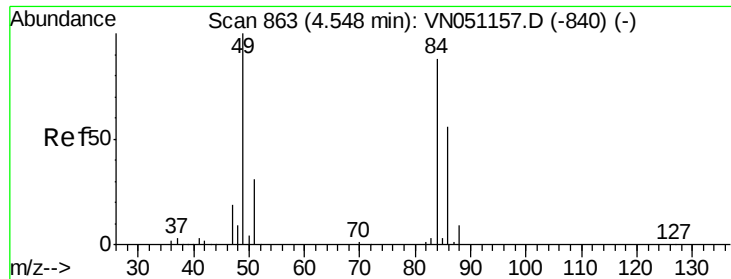
2000

1000

0

Time-->

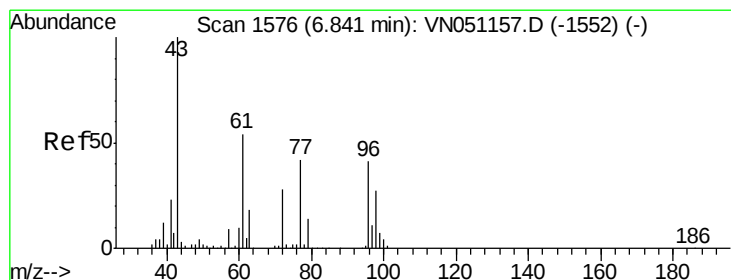
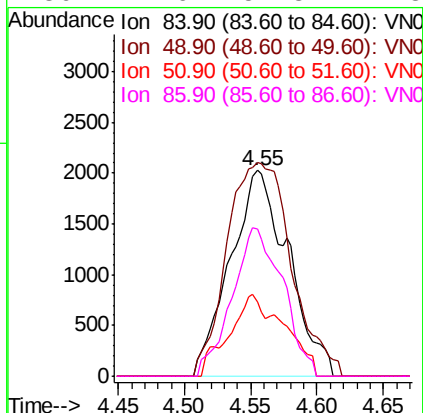
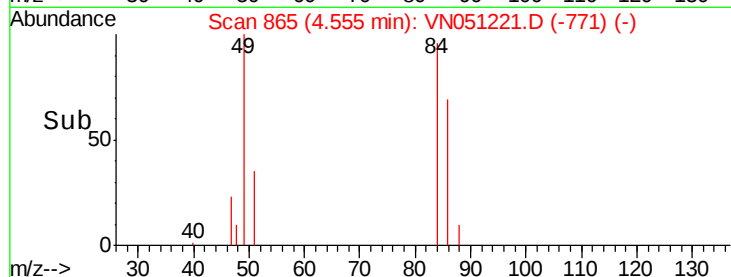
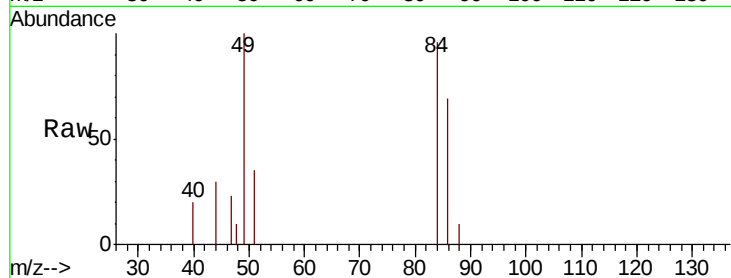




#20
Methvlene Chloride
Concen: 1.10 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

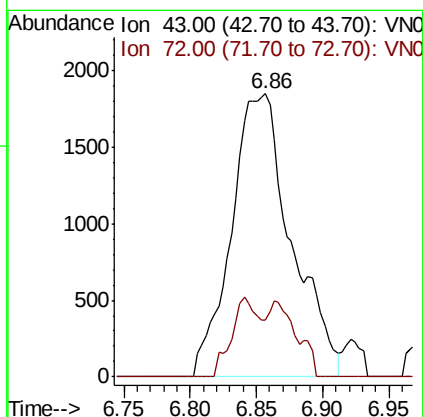
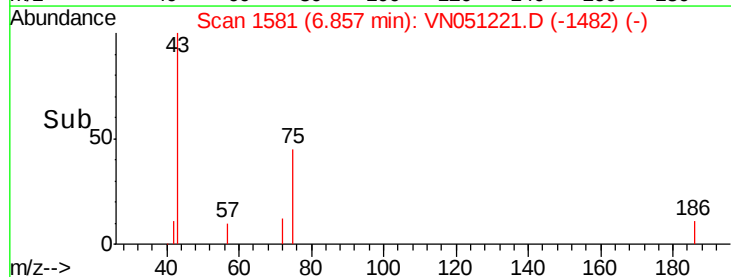
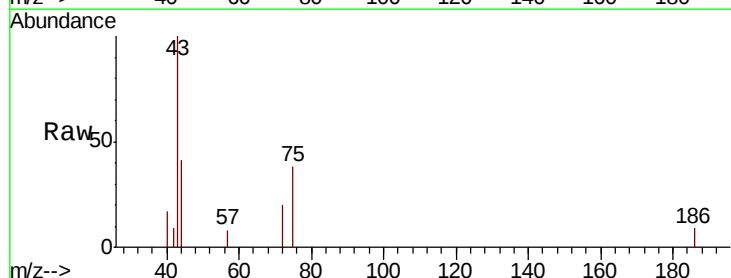
Instrument :
MSVOA_N
ClientSampled :

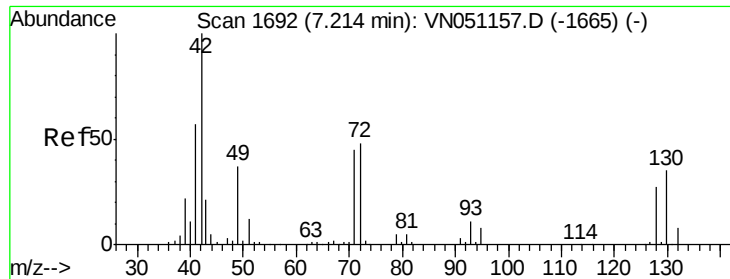
Tot Ion: 84 Resp: 6180
Ion Ratio Lower Upper
84 100
49 103.9 90.2 135.2
51 36.3 28.4 42.6
86 71.6 51.8 77.8



#25
2-Butanone
Concen: 2.91 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

Tgt Ion: 43 Resp: 5813
Ion Ratio Lower Upper
43 100
72 20.3 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.52 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampled :

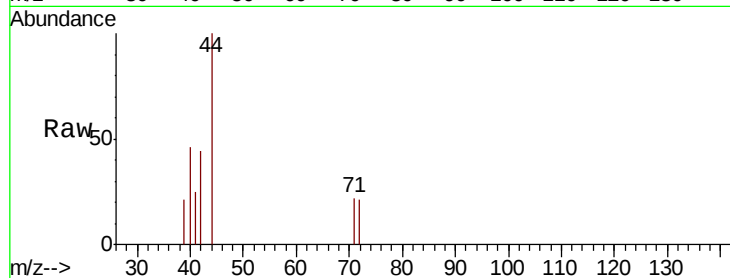
Tot Ion: 42 Resp: 645

Ion Ratio Lower Upper

42 100

72 14.3 37.4 56.0#

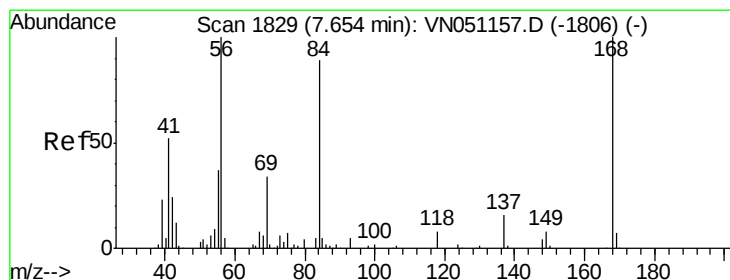
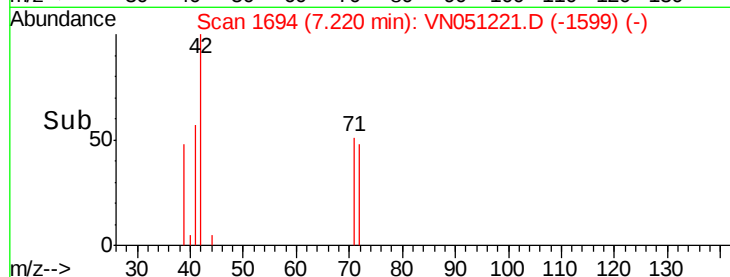
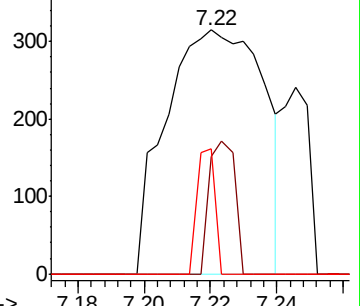
71 9.5 34.7 52.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.23 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

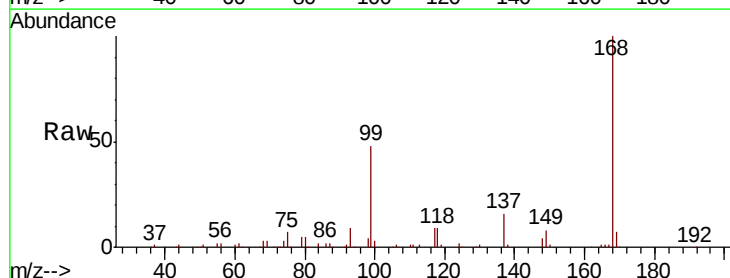
Tgt Ion: 56 Resp: 3792

Ion Ratio Lower Upper

56 100

69 199.5 26.3 39.5#

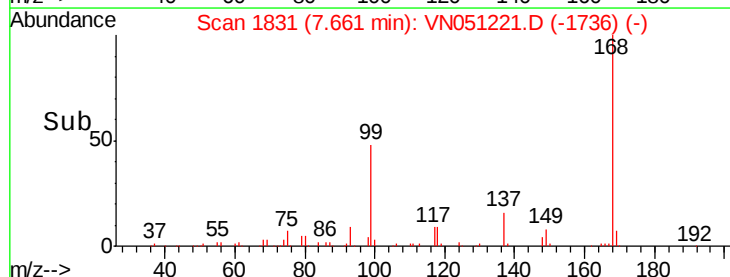
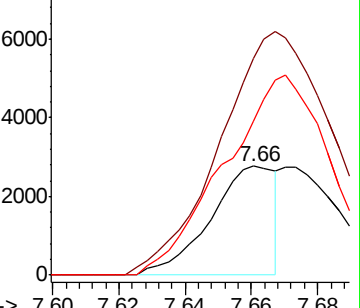
84 141.9 69.4 104.0#

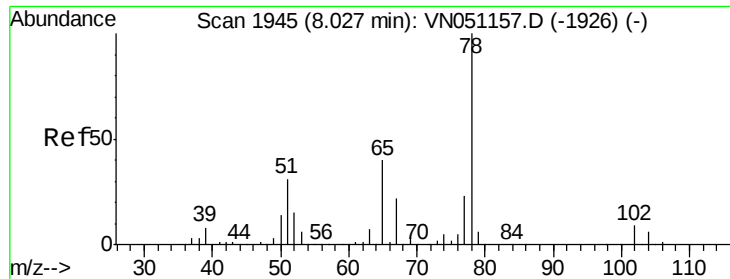


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

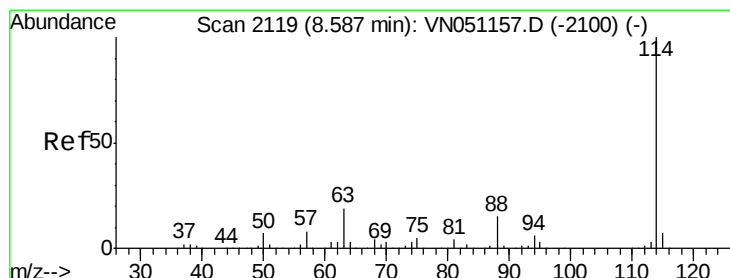
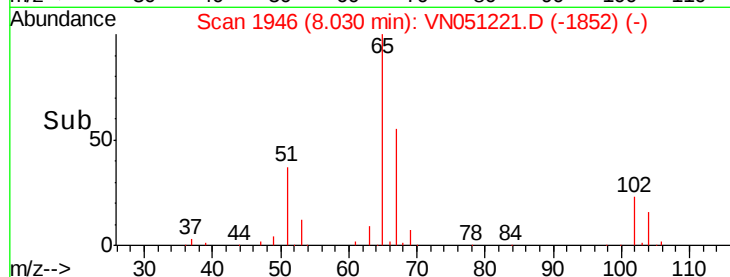
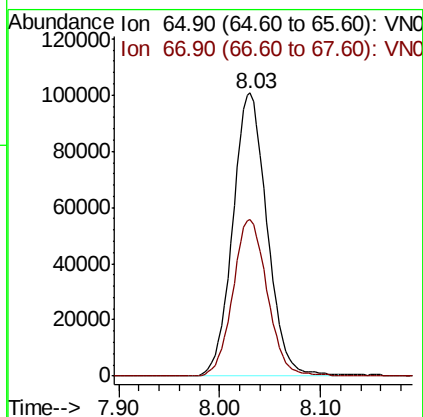
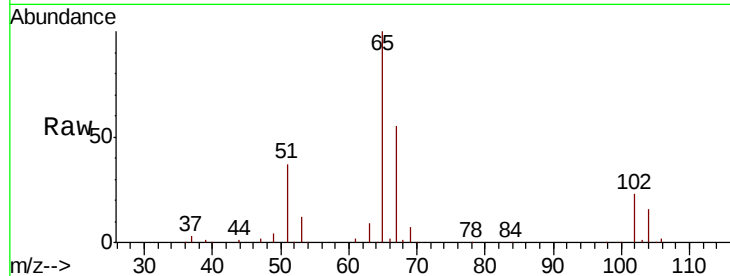




#33
 1,2-Dichloroethane-d4
 Concen: 46.76 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051221.D
 Acq: 15 Sep 2018 14:41

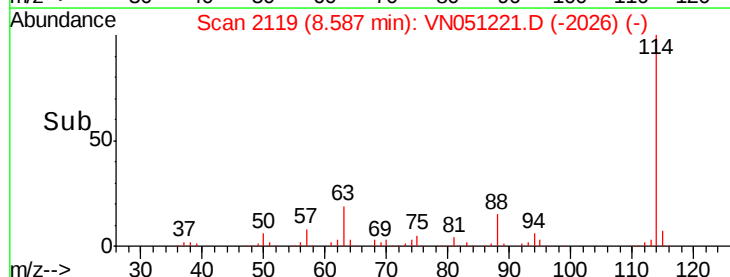
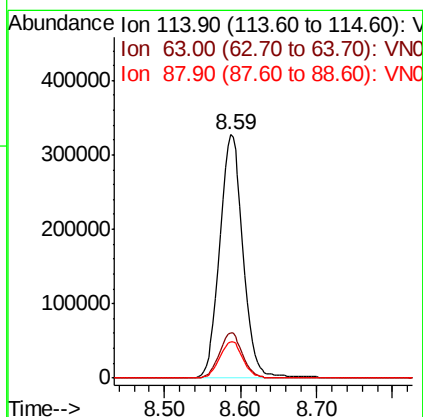
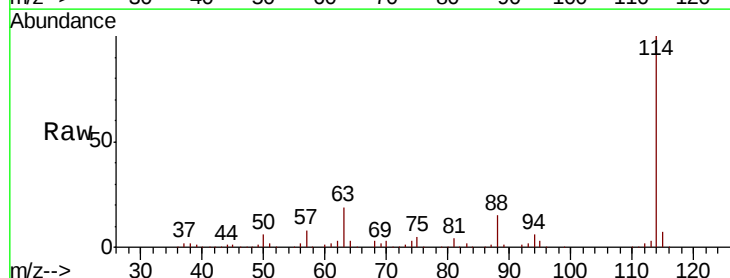
Instrument :
 MSVOA_N
 ClientSampled :

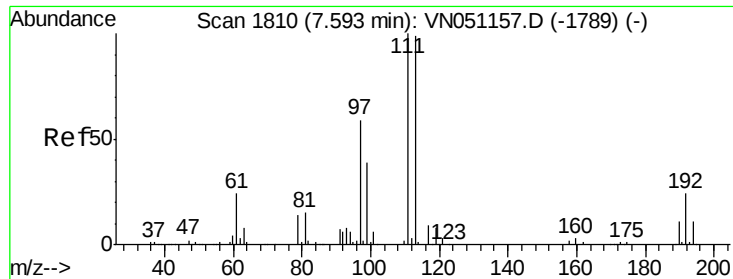
Tot Ion: 65 Resp: 237642
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051221.D
 Acq: 15 Sep 2018 14:41

Tgt Ion: 114 Resp: 699847
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 37.8
 88 15.1 0.0 30.8

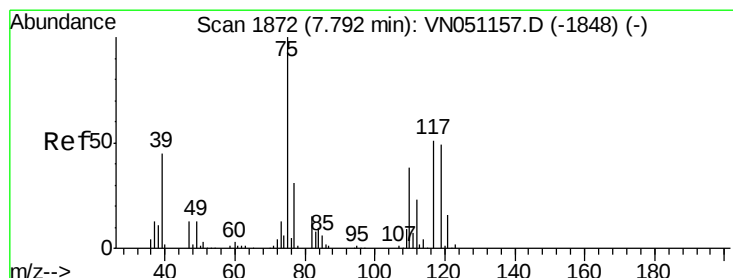
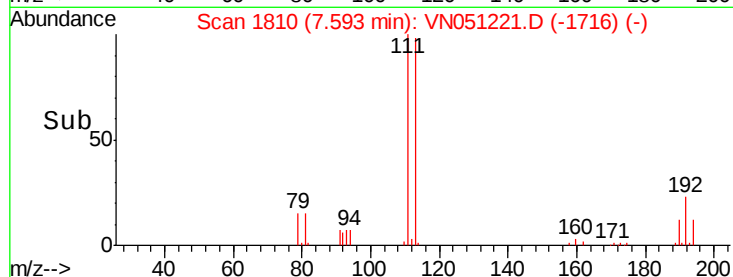
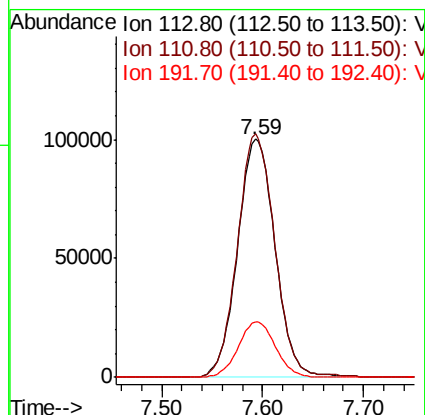
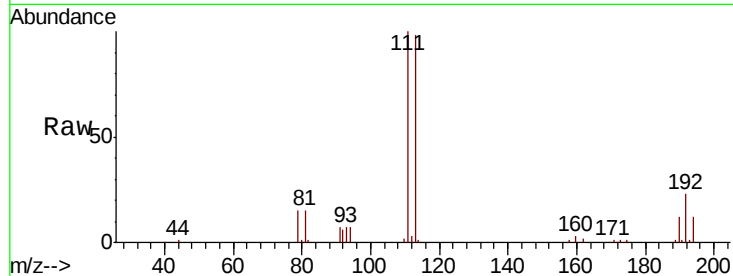




#35
 Dibromofluoromethane
 Concen: 49.10 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051221.D
 Acq: 15 Sep 2018 14:41

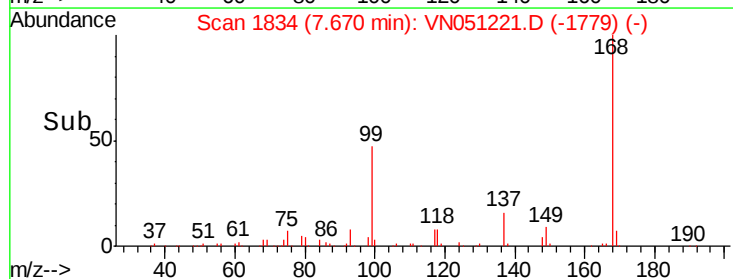
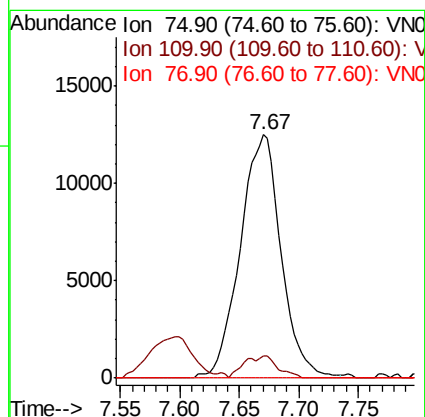
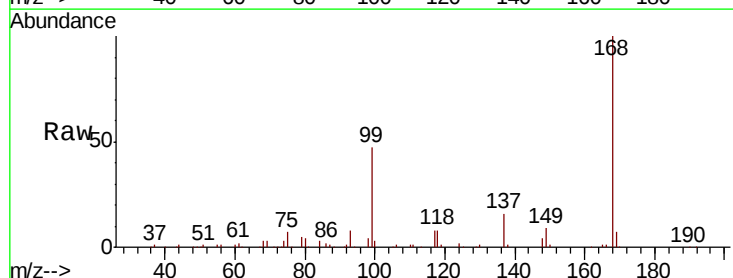
Instrument :
 MSVOA_N
 ClientSampleId :

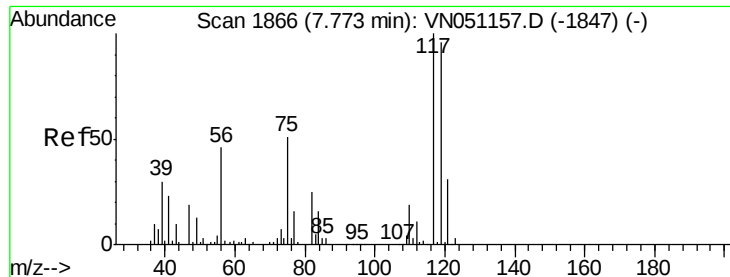
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.0	124.6
192	23.3	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 3.87 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051221.D
 Acq: 15 Sep 2018 14:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.2	18.6	55.8#
77	0.0	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 5.14 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

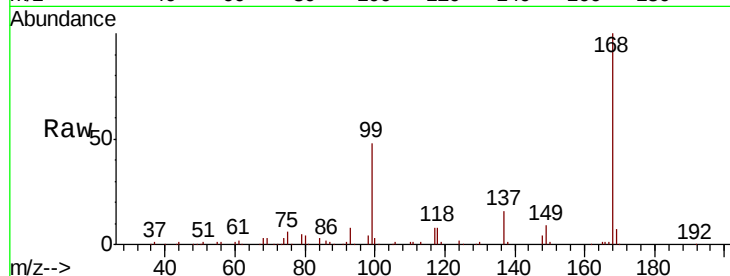
Tot Ion:117 Resp: 38856

Ion Ratio Lower Upper

117 100

119 6.4 76.8 115.2#

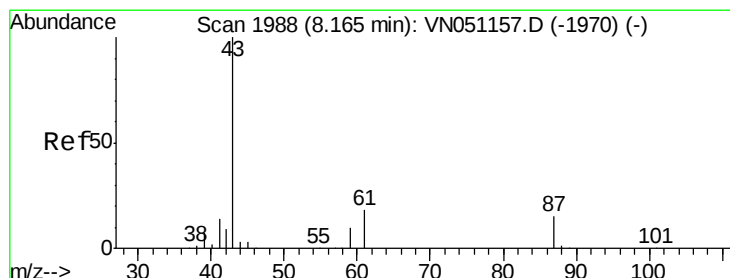
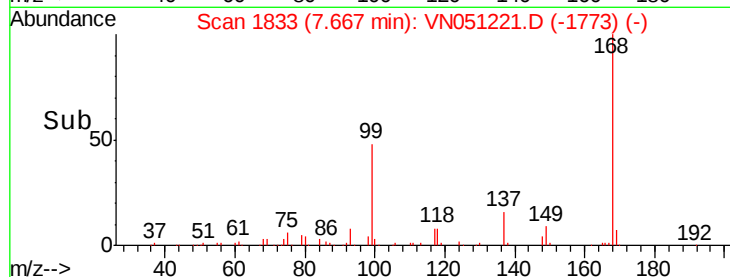
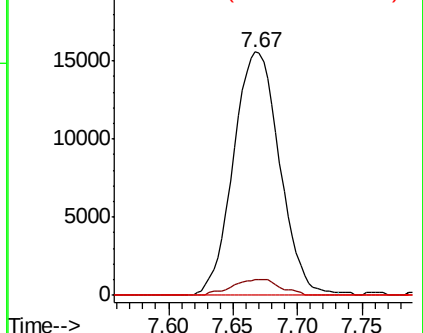
121 0.0 24.6 36.8#



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: 26.78 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

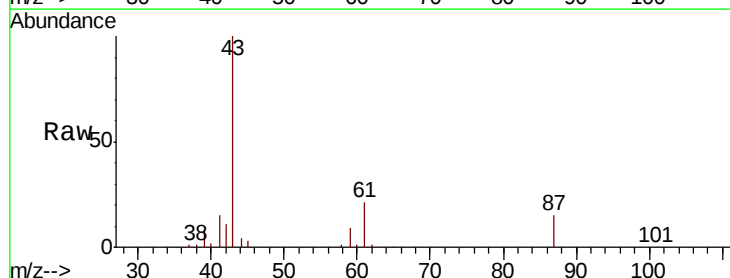
Tgt Ion: 43 Resp: 210294

Ion Ratio Lower Upper

43 100

61 20.1 25.0 37.6#

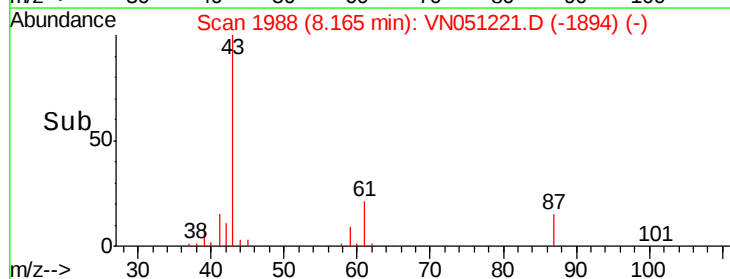
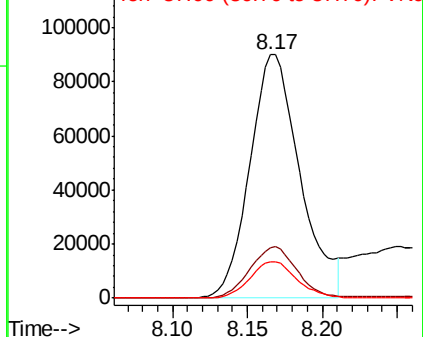
87 14.1 11.8 17.8

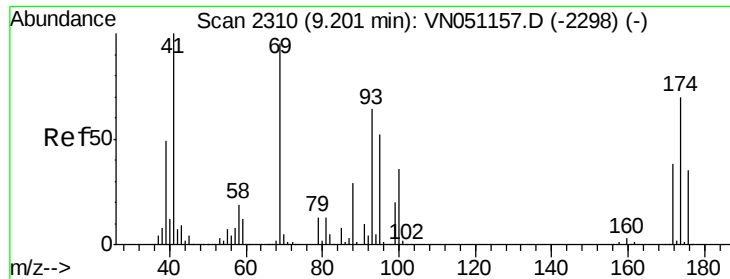


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

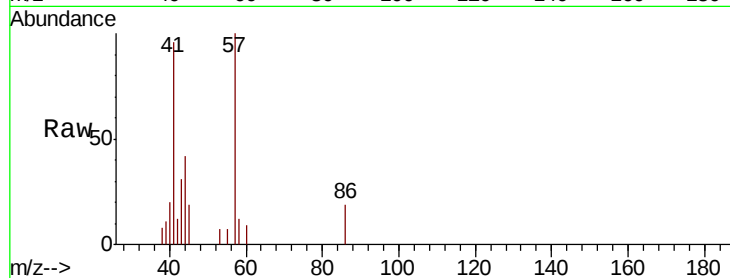




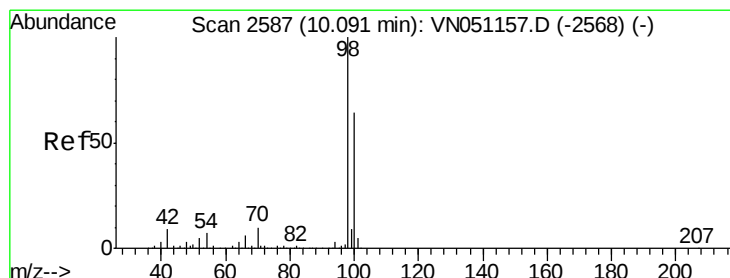
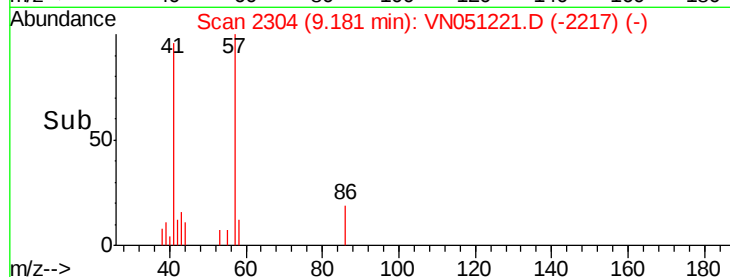
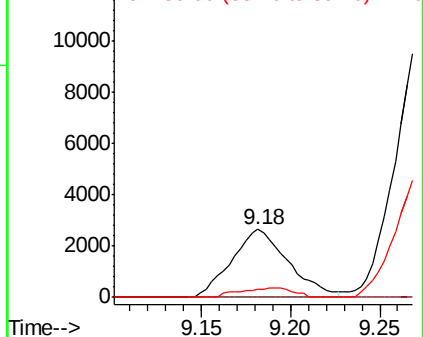
#48
Methyl methacrylate
Concen: 1.53 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 5837
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 13.1 41.6 62.4#

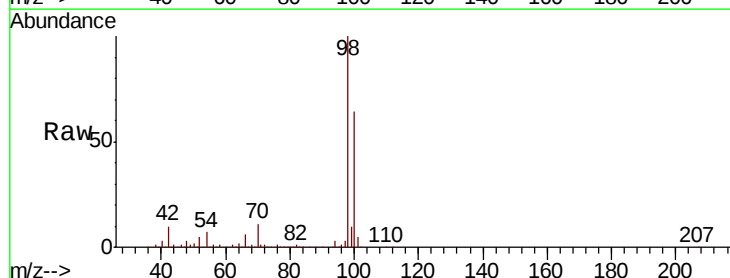


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

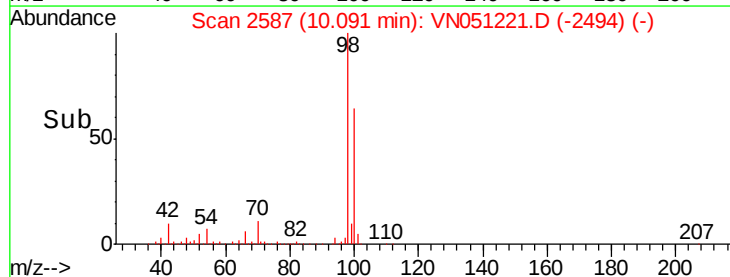
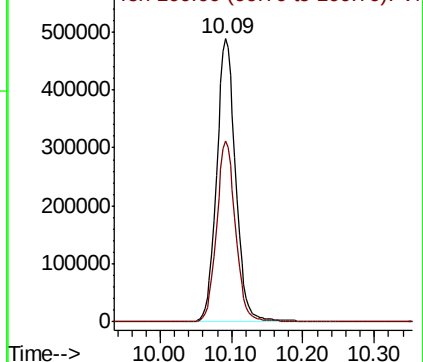


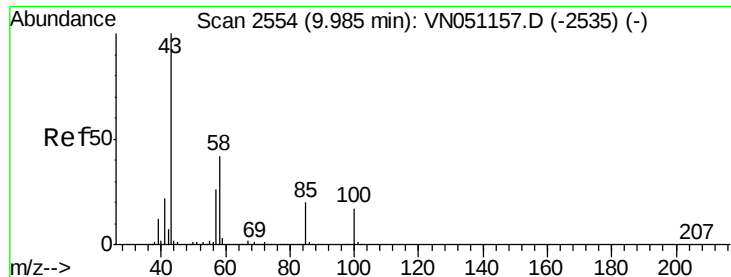
#50
Toluene-d8
Concen: 45.06 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

Tgt Ion: 98 Resp: 899108
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0



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: 0.33 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

Instrument :

MSVOA_N

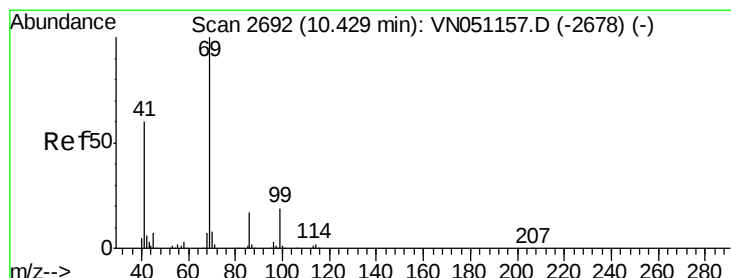
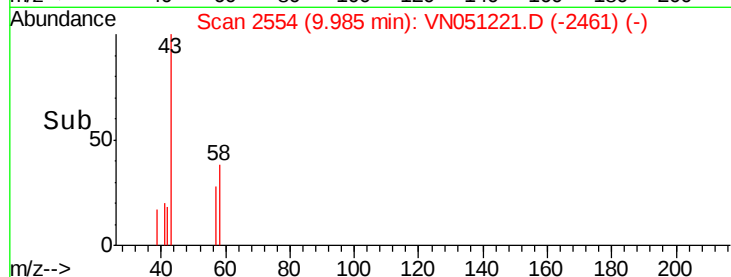
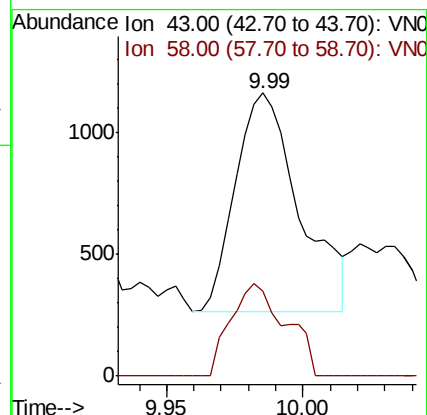
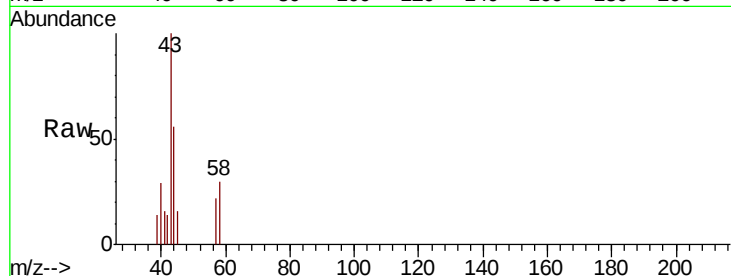
ClientSampled :

Tot Ion: 43 Resp: 1451

Ion Ratio Lower Upper

43 100

58 37.2 33.5 50.3



#56

Ethyl methacrylate

Concen: 2.46 ug/l

RT: 10.27 min Scan# 2644

Delta R.T. -0.15 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

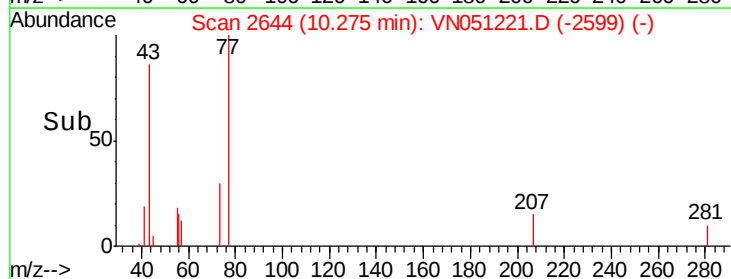
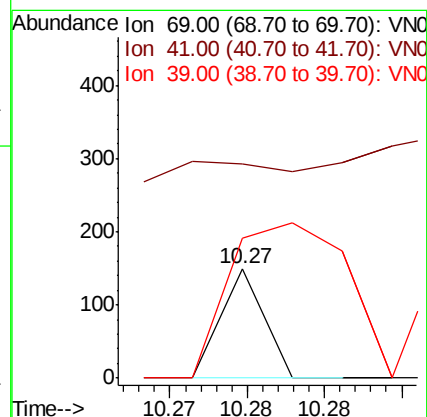
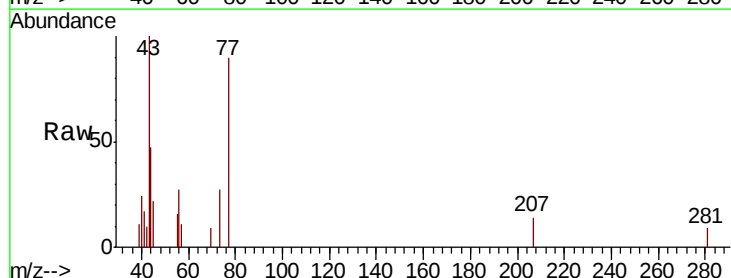
Tgt Ion: 69 Resp: 29

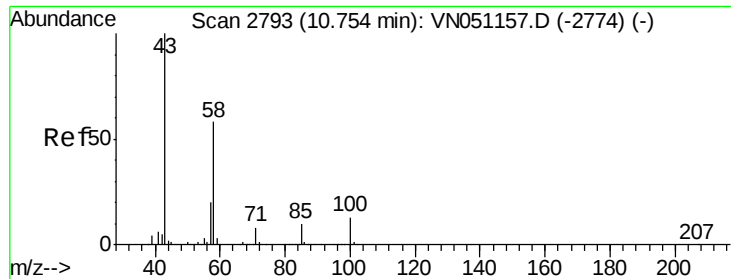
Ion Ratio Lower Upper

69 100

41 0.0 47.8 71.8#

39 386.2 23.0 34.4#

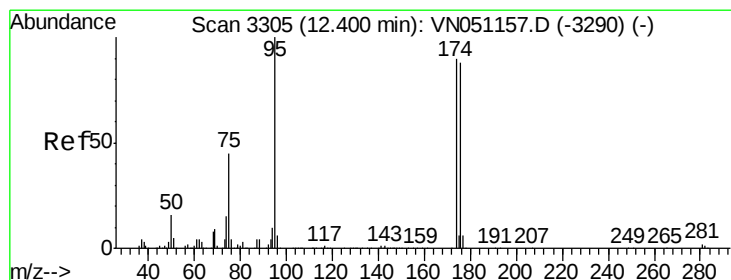
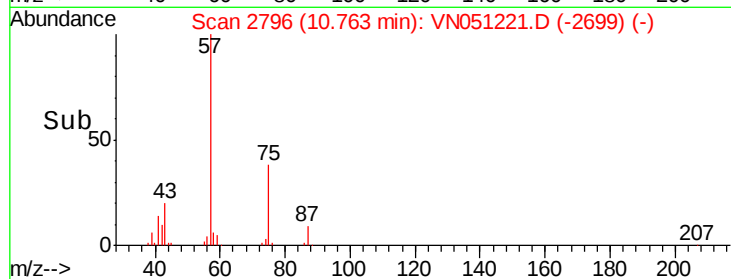
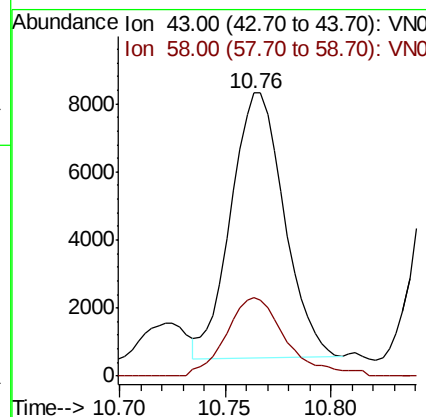
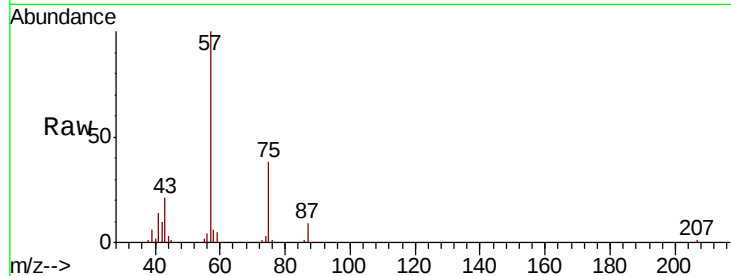




#59
2-Hexanone
Concen: 4.61 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

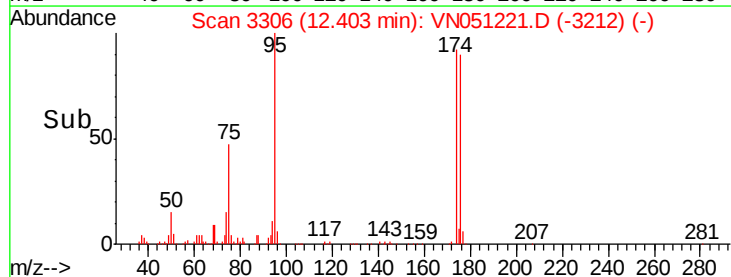
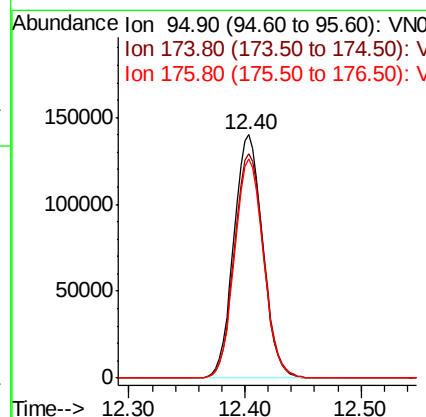
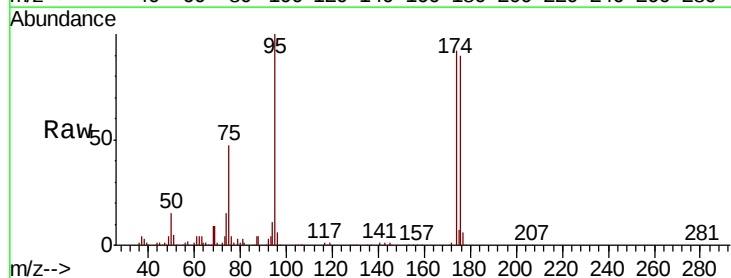
Instrument :
MSVOA_N
ClientSampleId :

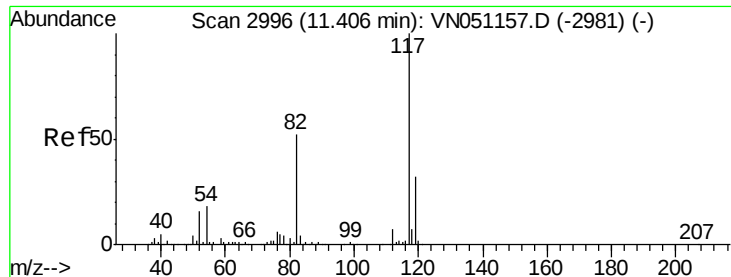
Tot Ion: 43 Resp: 13588
Ion Ratio Lower Upper
43 100
58 33.5 29.3 88.0



#62
4-Bromofluorobenzene
Concen: 36.59 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

Tgt Ion: 95 Resp: 241499
Ion Ratio Lower Upper
95 100
174 94.3 0.0 184.8
176 90.1 0.0 178.6

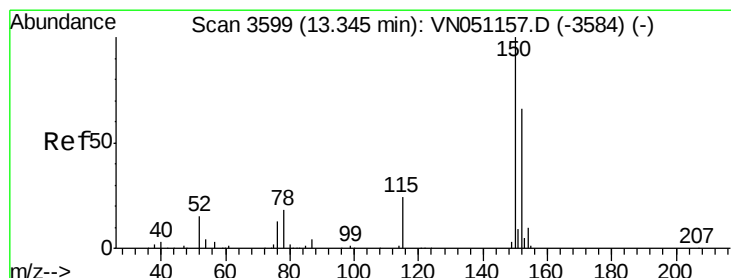
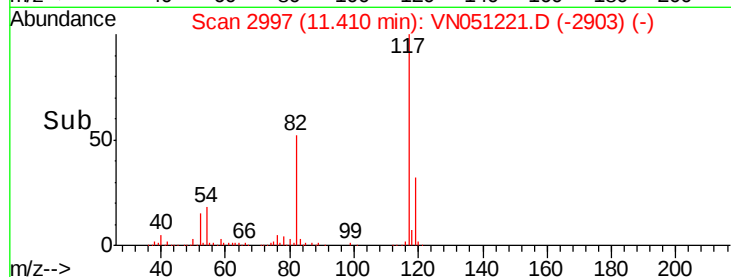
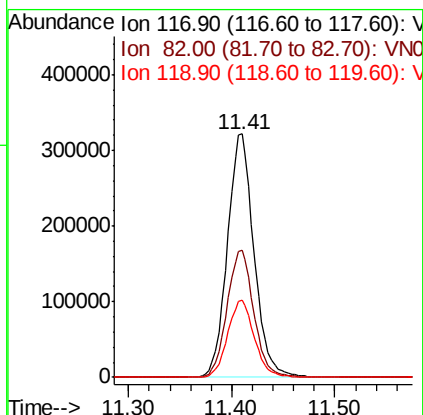
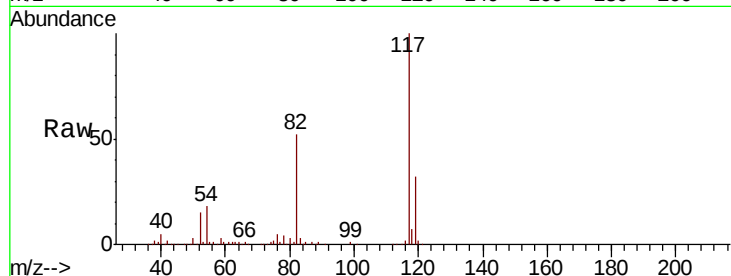




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

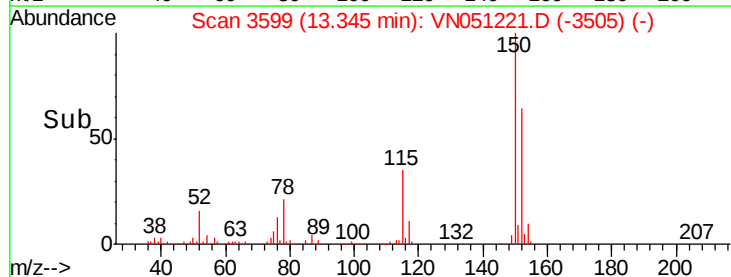
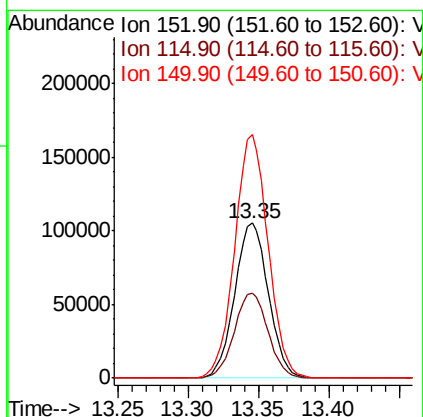
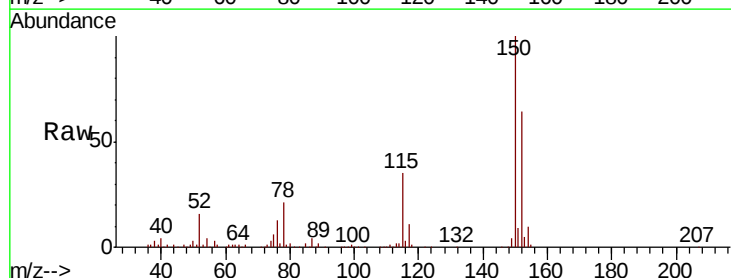
Instrument :
MSVOA_N
ClientSampleId :

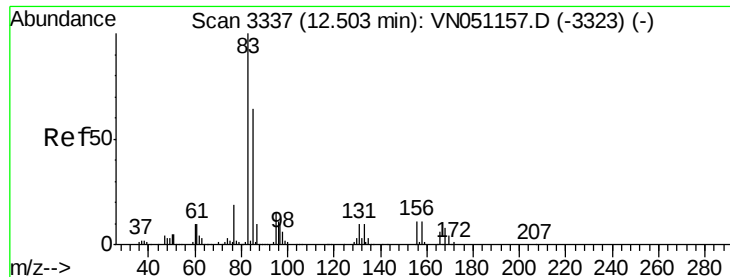
Tot Ion:117 Resp: 577868
Ion Ratio Lower Upper
117 100
82 52.2 41.8 62.6
119 31.7 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

Tgt Ion:152 Resp: 176160
Ion Ratio Lower Upper
152 100
115 55.0 28.2 84.7
150 155.7 0.0 349.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

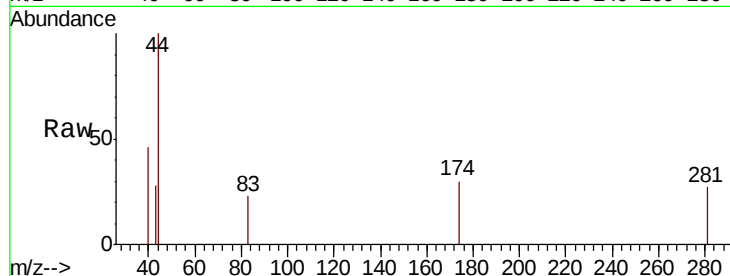
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN051157.D (-3323) (-)

Ion 130.80 (130.50 to 131.50): VN051157.D (-3323) (-)

Ion 84.90 (84.60 to 85.60): VN051157.D (-3323) (-)

12.50

150

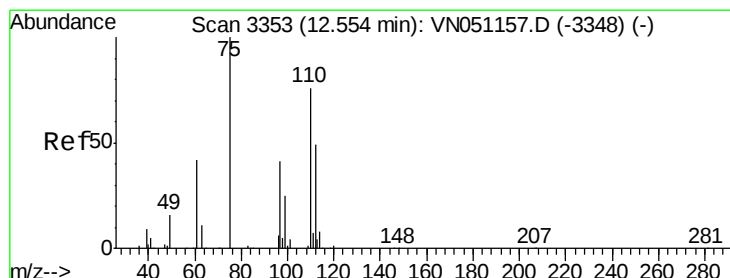
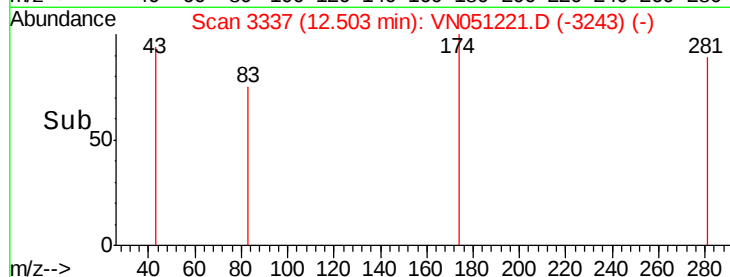
100

50

0

12.49 12.50 12.51

Time-->



#76

1,2,3-Trichloropropane

Concen: 41.05 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051221.D

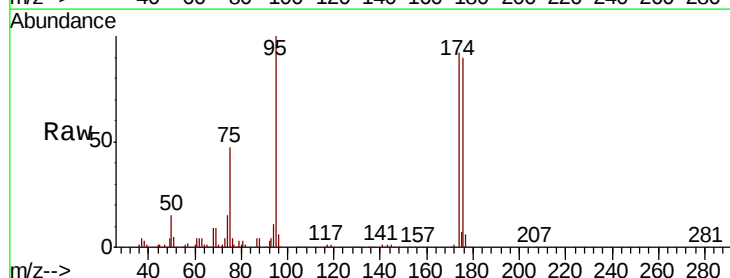
Acq: 15 Sep 2018 14:41

Tgt Ion: 75 Resp: 112851

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051157.D (-3348) (-)

12.40

60000

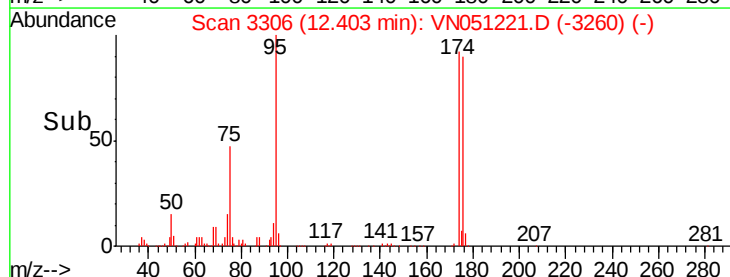
40000

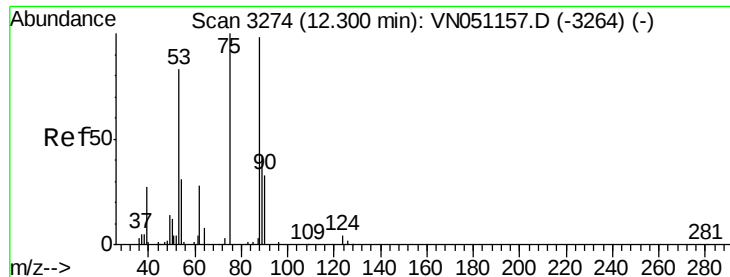
20000

0

12.35 12.40 12.45

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 121.66 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

Instrument :

MSVOA_N

ClientSampleId :

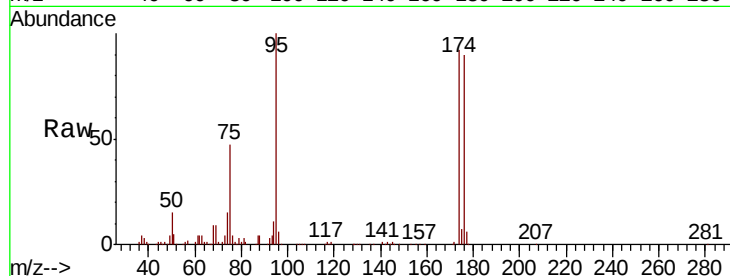
Tot Ion: 75 Resp: 112851

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

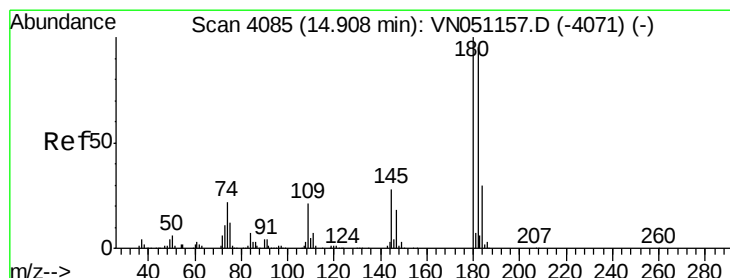
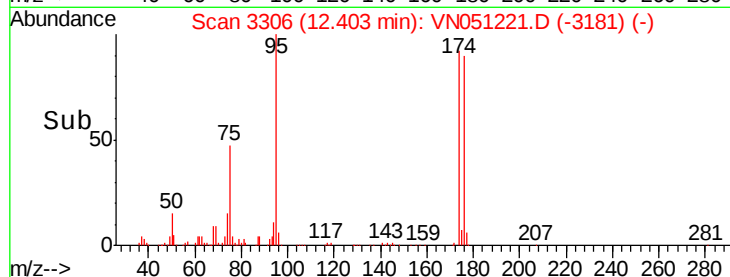
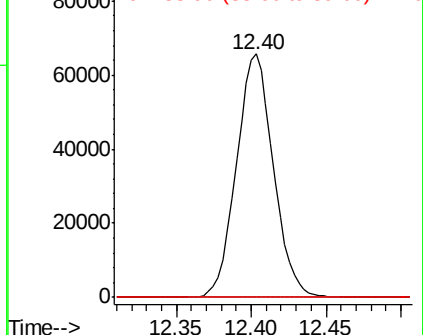
89 0.0 36.0 54.0#



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



#93

1,2,4-Trichlorobenzene

Concen: 4.20 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051221.D

Acq: 15 Sep 2018 14:41

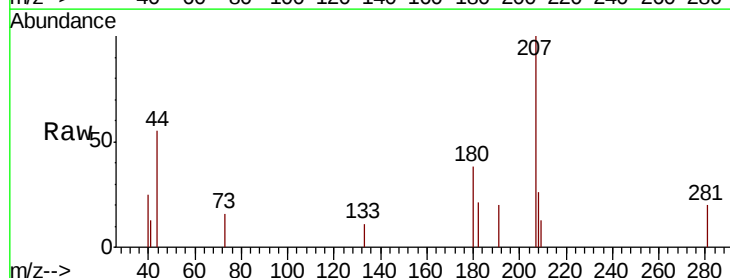
Tgt Ion: 180 Resp: 765

Ion Ratio Lower Upper

180 100

182 50.8 47.3 141.8

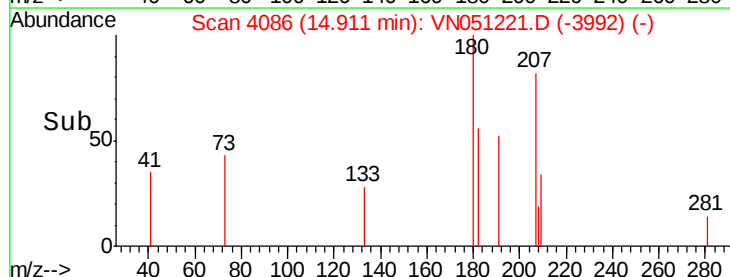
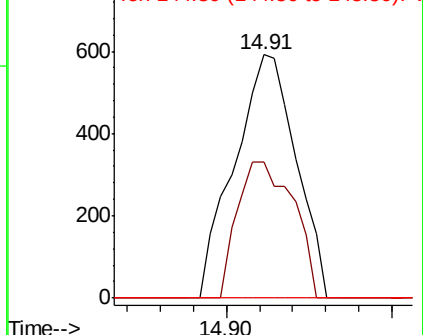
145 0.0 14.2 42.6#

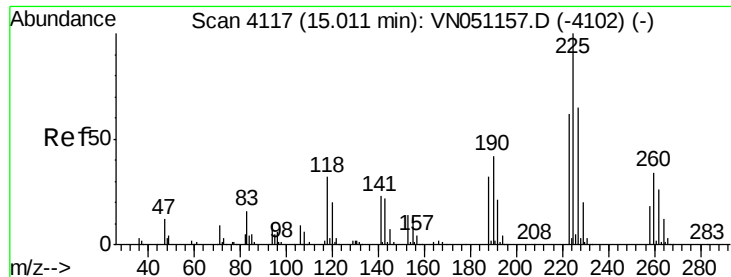


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

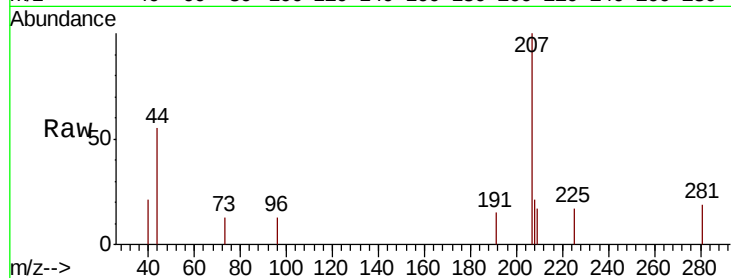




#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

Instrument :
MSVOA_N
ClientSampled :

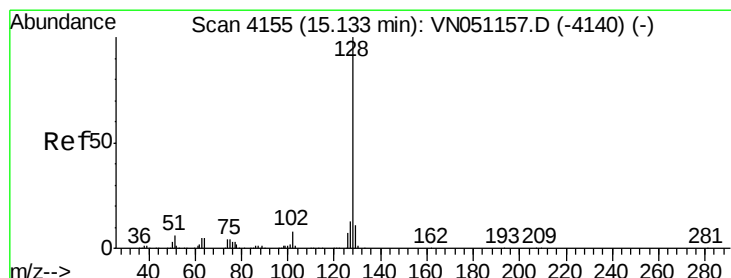
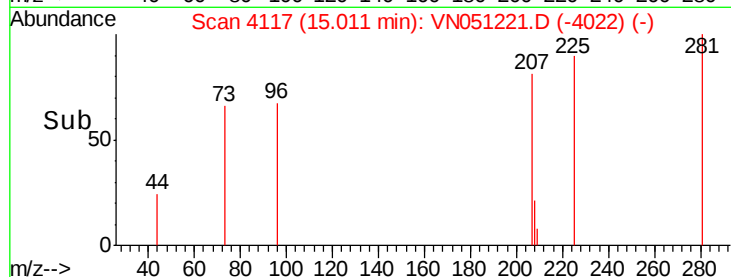
Tot Ion:225 Resp: 270
Ion Ratio Lower Upper
225 100
223 0.0 31.4 94.0#
227 0.0 32.1 96.3#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

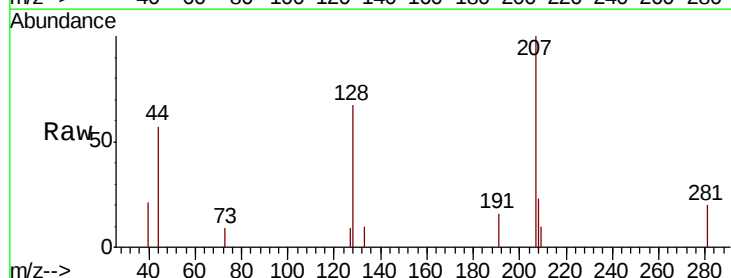
15.01

Time-->



#95
Naphthalene
Concen: 5.57 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051221.D
Acq: 15 Sep 2018 14:41

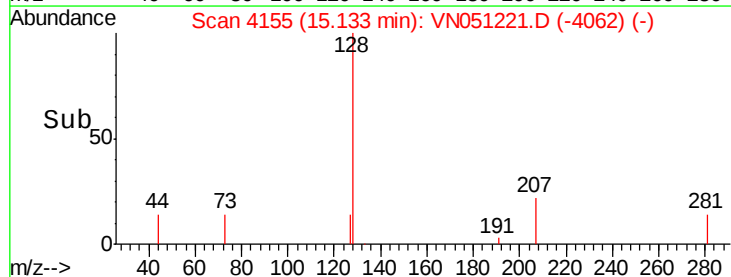
Tgt Ion:128 Resp: 1712
Ion Ratio Lower Upper
128 100
127 3.6 10.6 15.8#
129 0.0 8.6 12.8#

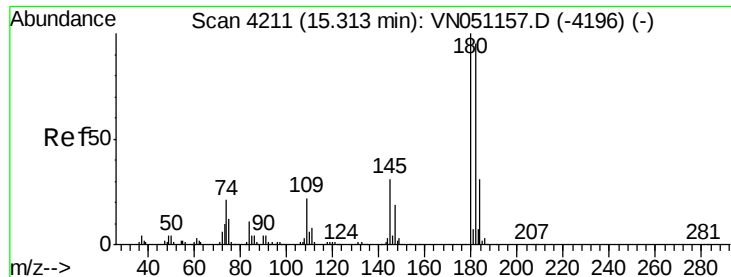


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

15.13

Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 3.14 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051221.D
 Acq: 15 Sep 2018 14:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 617
 Ion Ratio Lower Upper
 180 100
 182 109.9 47.8 143.3
 145 0.0 14.6 43.8#

