

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049880.D
 Acq On : 18 Jul 2018 18:29
 Operator : MD\SY
 Sample : PB111206ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 01:21:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 13:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	572461	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	958864	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	790886	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	280297	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	411993	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
35) Dibromofluoromethane	7.59	113	361957	44.97	ug/l	0.00
Spiked Amount			Recovery	=	89.94%	
50) Toluene-d8	10.09	98	1278303	43.58	ug/l	0.00
Spiked Amount			Recovery	=	87.16%	
62) 4-Bromofluorobenzene	12.40	95	341100	33.77	ug/l	0.00
Spiked Amount			Recovery	=	67.54%	

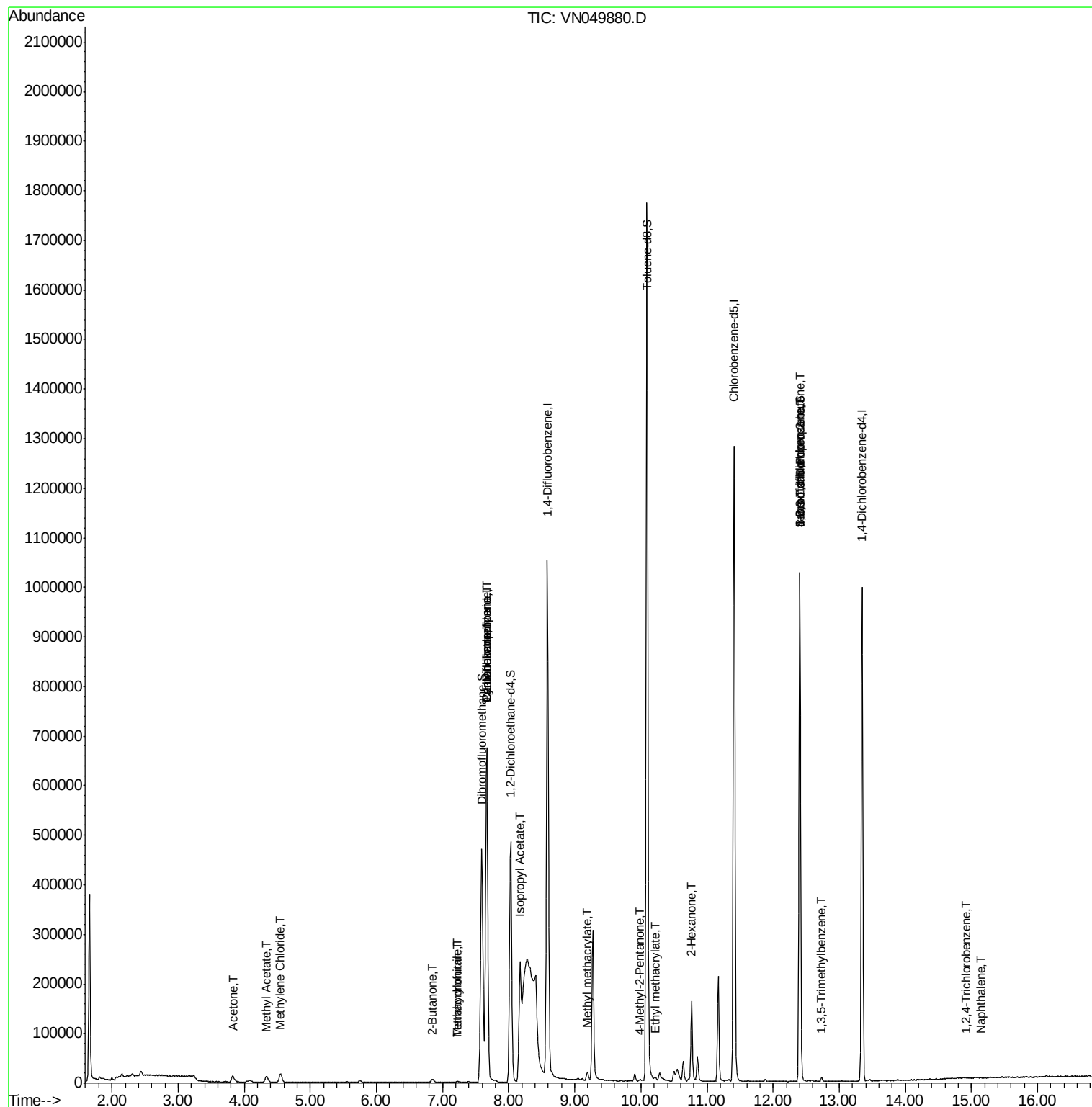
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	841	Below Cal		92
16) Acetone	3.82	43	25055	12.30	ug/l	96
18) Methyl Acetate	4.34	43	23327	2.87	ug/l	97
20) Methylene Chloride	4.55	84	13585	1.75	ug/l #	82
25) 2-Butanone	6.85	43	5639	1.94	ug/l #	78
29) Tetrahydrofuran	7.22	42	1173	0.64	ug/l #	65
31) Cyclohexane	7.66	56	11277	1.08	ug/l #	13
36) 1,1-Dichloropropene	7.67	75	40295	3.78	ug/l #	49
38) Carbon Tetrachloride	7.67	117	51127	4.48	ug/l #	17
41) Methacrylonitrile	7.22	41	805	0.22	ug/l #	44
43) Isopropyl Acetate	8.17	43	286904	22.43	ug/l	98
48) Methyl methacrylate	9.18	41	8699	1.36	ug/l #	24
51) 4-Methyl-2-Pentanone	9.99	43	2673	0.37	ug/l	96
56) Ethyl methacrylate	10.23	69	2549	2.38	ug/l #	58
59) 2-Hexanone	10.77	43	22258	4.63	ug/l #	60
71) Bromoform	12.40	173	3156	0.57	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	167670	31.89	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	3615	0.21	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	167670	99.71	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	423	3.55	ug/l #	62
95) Naphthalene	15.14	128	809	4.55	ug/l #	80

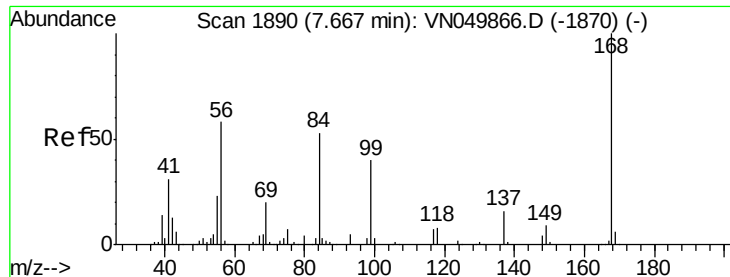
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 13:09:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

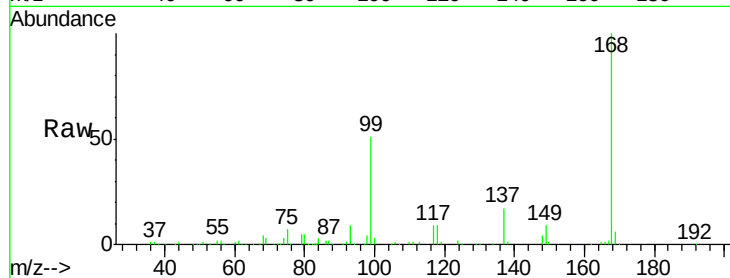
ClientSampled :

Tot Ion:168 Resp: 572461

Ion Ratio Lower Upper

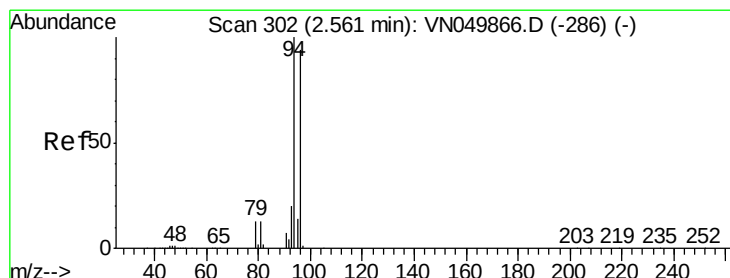
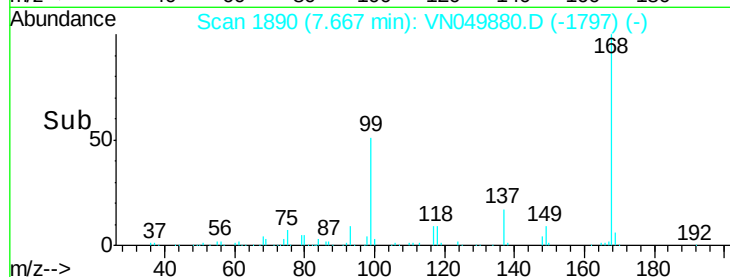
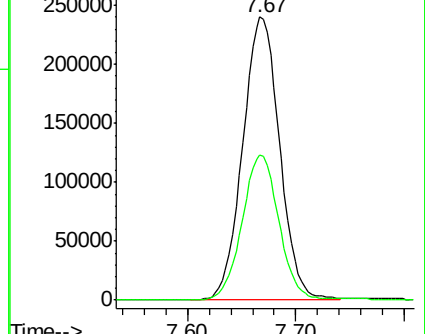
168 100

99 51.2 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN049880.D

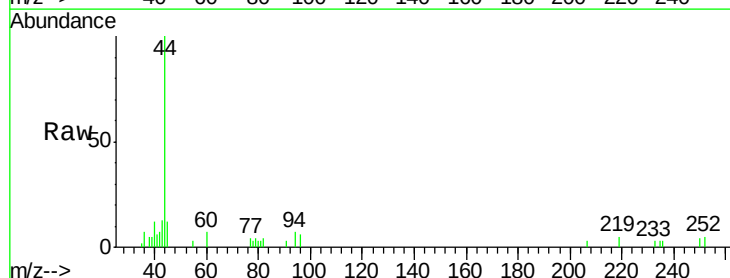
Acq: 18 Jul 2018 18:29

Tgt Ion: 94 Resp: 841

Ion Ratio Lower Upper

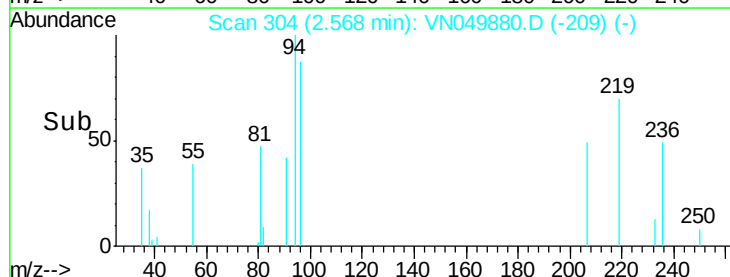
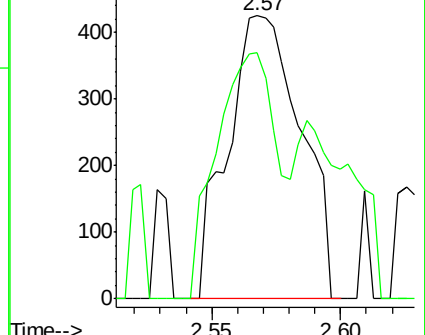
94 100

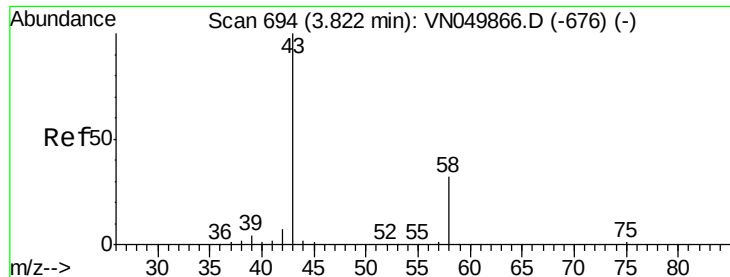
96 87.1 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#16

Acetone

Concen: 12.30 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

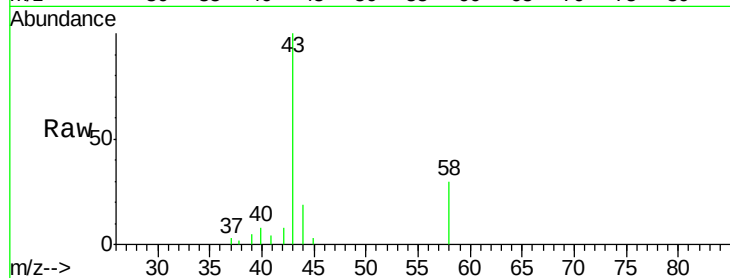
ClientSampleId :

Tot Ion: 43 Resp: 25055

Ion Ratio Lower Upper

43 100

58 30.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049880.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN049880.D (-601) (-)

3.82

8000

6000

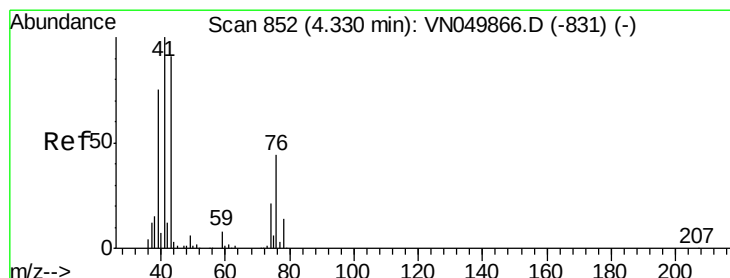
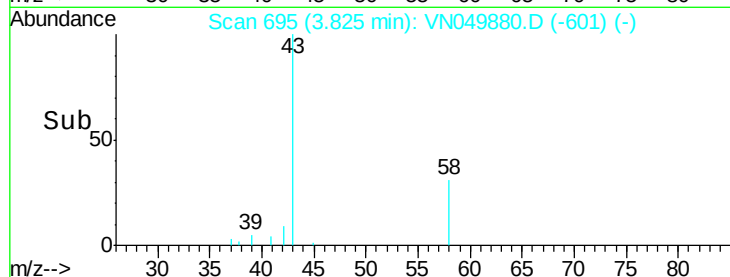
4000

2000

0

Time-->

3.70 3.80 3.90



#18

Methyl Acetate

Concen: 2.87 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN049880.D

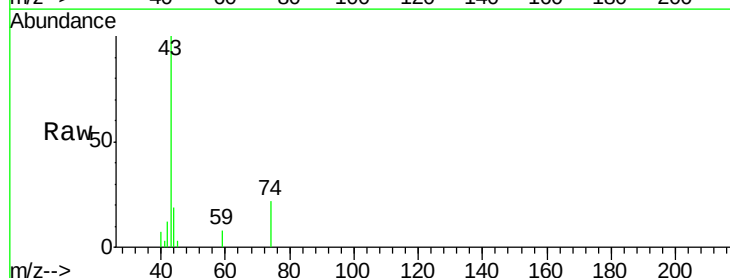
Acq: 18 Jul 2018 18:29

Tgt Ion: 43 Resp: 23327

Ion Ratio Lower Upper

43 100

74 23.1 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049880.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN049880.D (-759) (-)

4.34

8000

6000

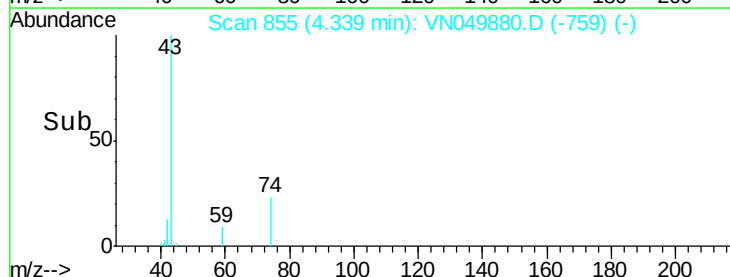
4000

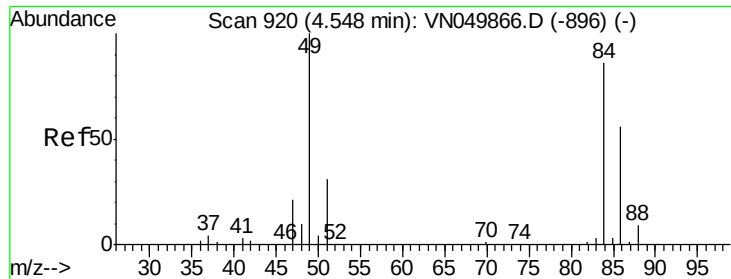
2000

0

Time-->

4.25 4.30 4.35 4.40

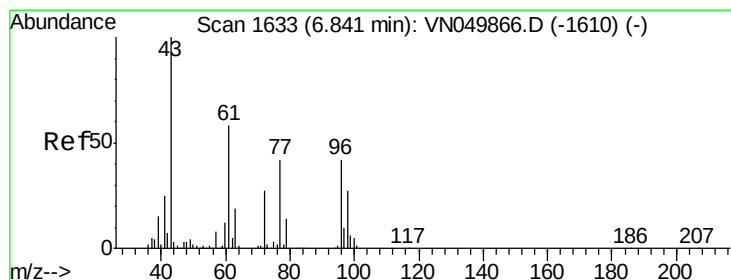
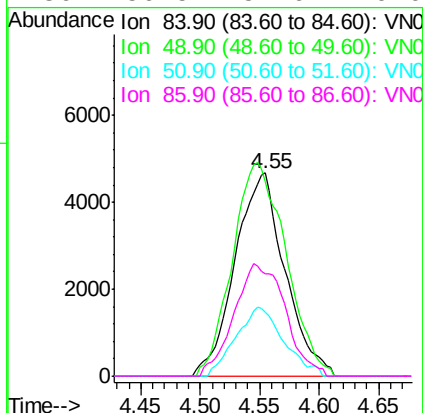
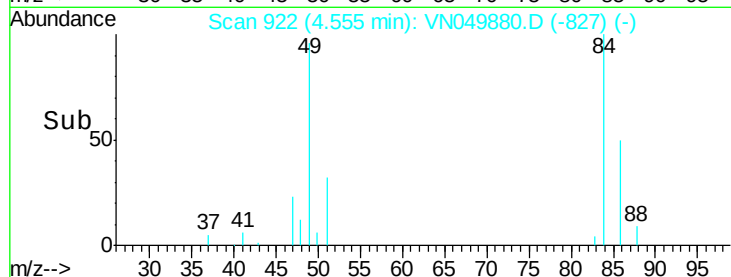
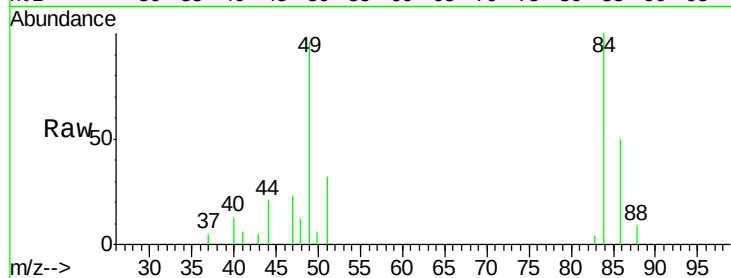




#20
Methvlene Chloride
Concen: 1.75 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.01 min
Lab File: VN049880.D
Acq: 18 Jul 2018 18:29

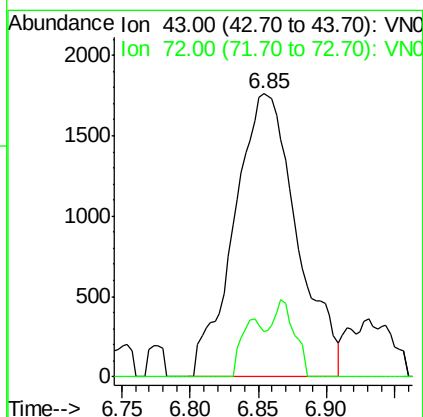
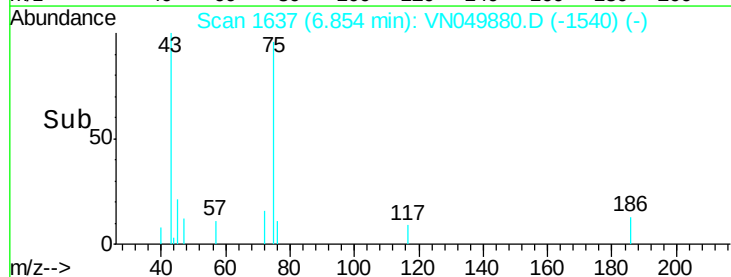
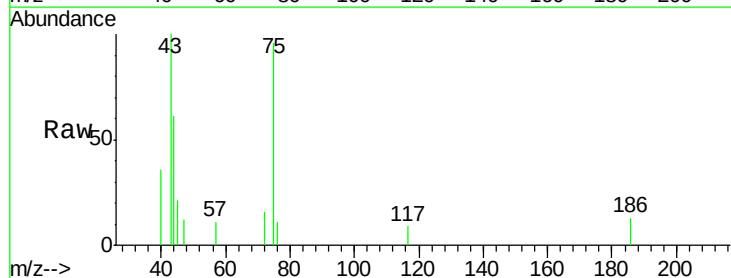
Instrument :
MSVOA_N
ClientSampled :

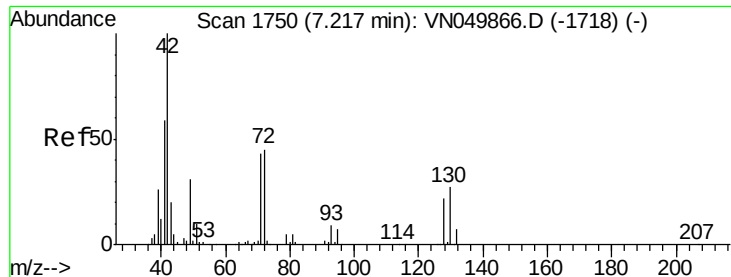
Tot Ion: 84	Resp: 13585
Ion Ratio	Lower Upper
84 100	
49 95.8	95.4 143.2
51 31.8	28.4 42.6
86 50.5	52.6 79.0#



#25
2-Butanone
Concen: 1.94 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049880.D
Acq: 18 Jul 2018 18:29

Tgt Ion: 43	Resp: 5639
Ion Ratio	Lower Upper
43 100	
72 16.1	22.1 33.1#

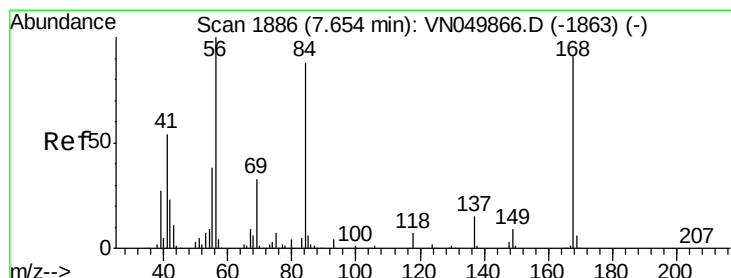
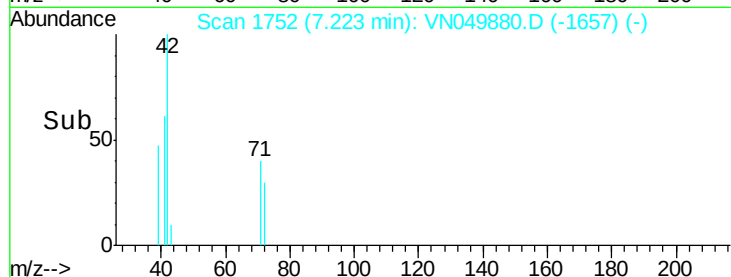
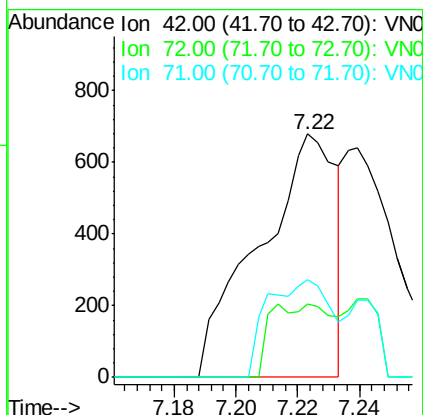
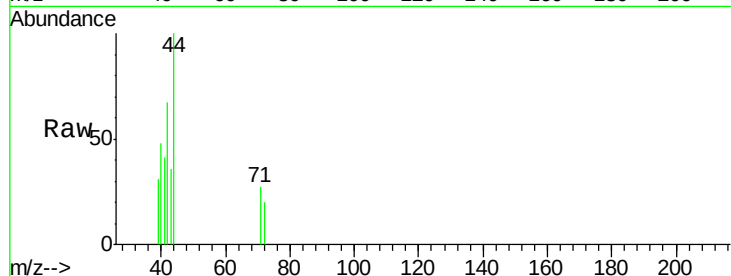




#29
Tetrahydrofuran
Concen: 0.64 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049880.D
Acq: 18 Jul 2018 18:29

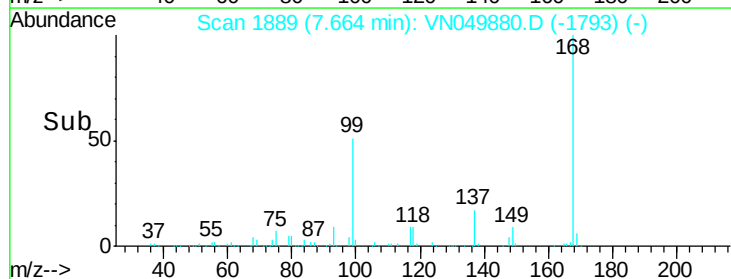
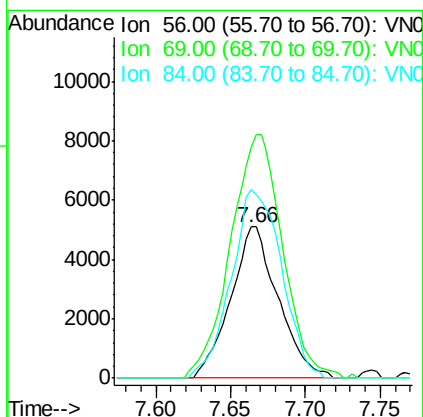
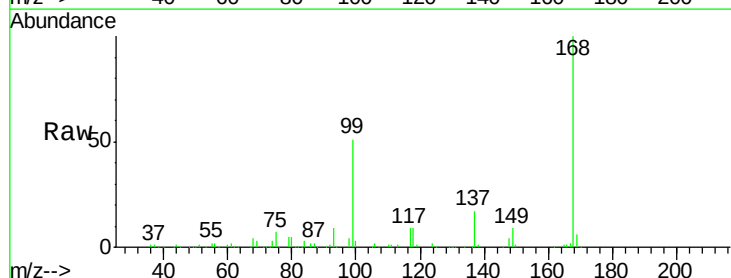
Instrument :
MSVOA_N
ClientSampleId :

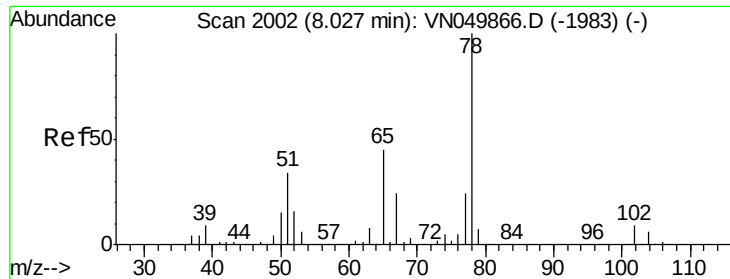
Tot Ion: 42 Resp: 1173
Ion Ratio Lower Upper
42 100
72 9.3 35.6 53.4#
71 33.0 34.0 51.0#



#31
Cyclohexane
Concen: 1.08 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049880.D
Acq: 18 Jul 2018 18:29

Tgt Ion: 56 Resp: 11277
Ion Ratio Lower Upper
56 100
69 149.6 26.6 40.0#
84 124.4 69.0 103.6#

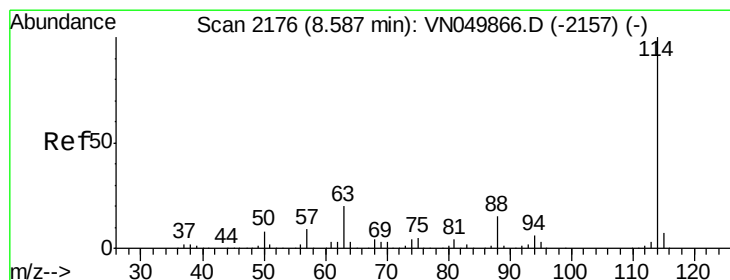
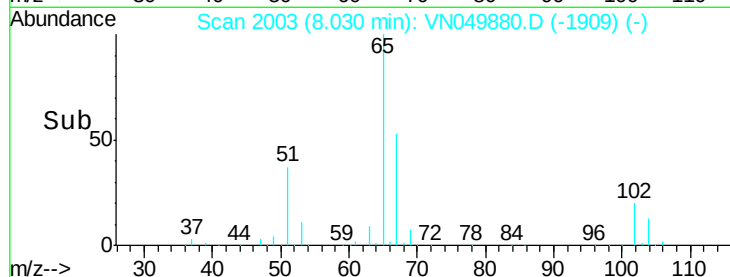
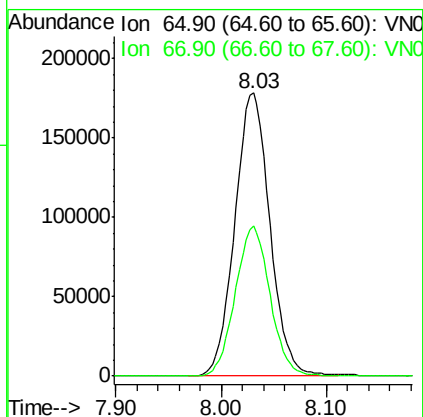
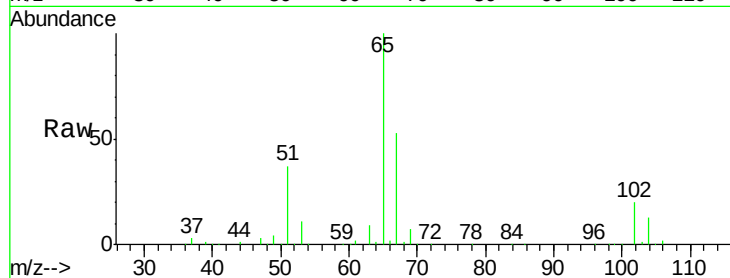




#33
 1,2-Dichloroethane-d4
 Concen: 52.36 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049880.D
 Acq: 18 Jul 2018 18:29

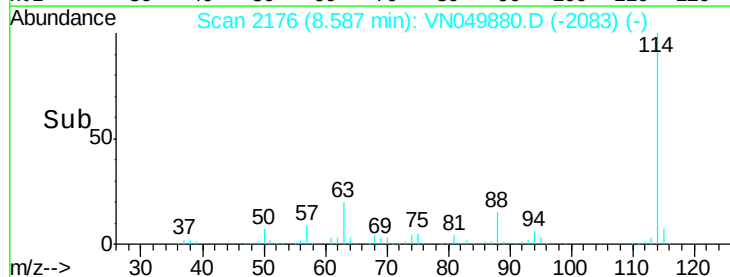
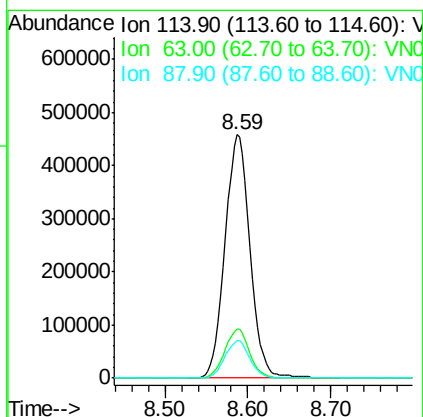
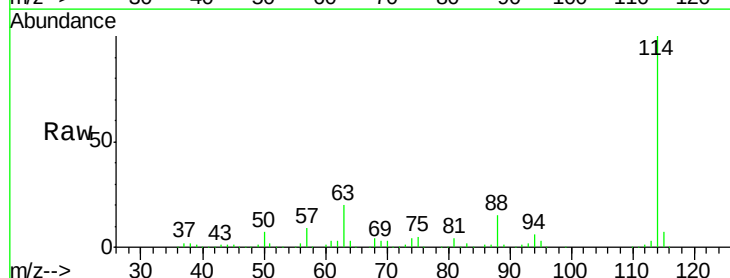
Instrument :
 MSVOA_N
 ClientSampled :

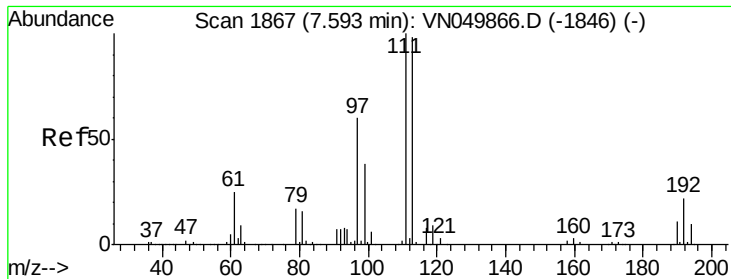
Tot Ion: 65 Resp: 411993
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049880.D
 Acq: 18 Jul 2018 18:29

Tgt Ion: 114 Resp: 958864
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.8
 88 15.5 0.0 30.6

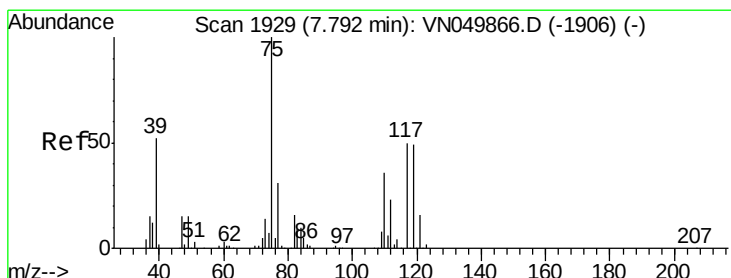
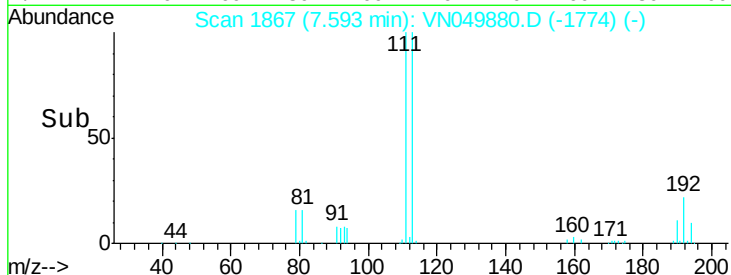
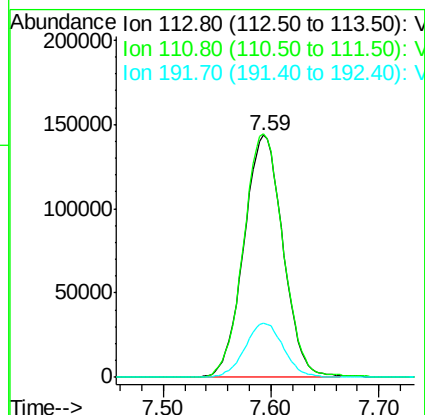
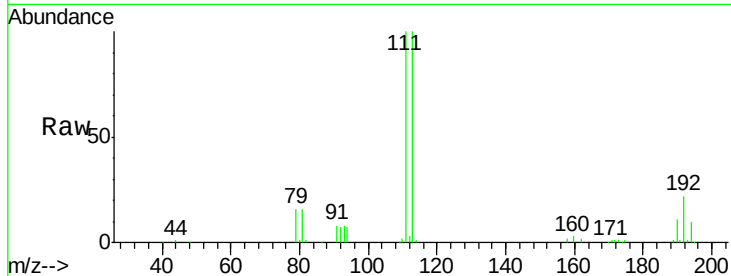




#35
 Dibromofluoromethane
 Concen: 44.97 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049880.D
 Acq: 18 Jul 2018 18:29

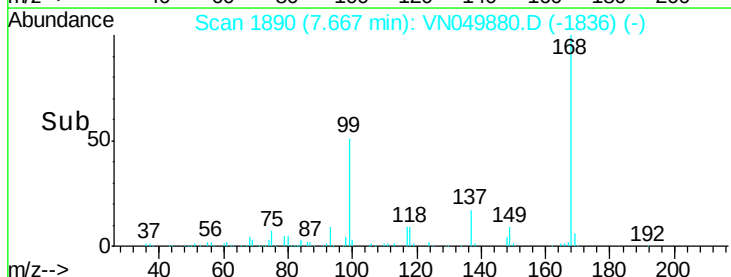
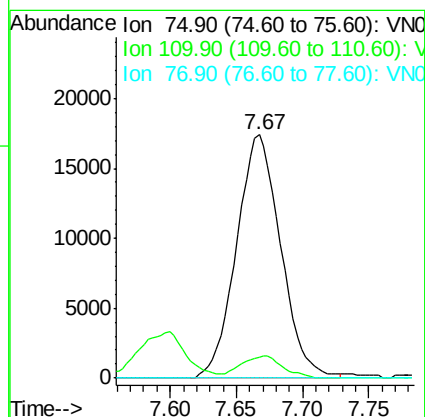
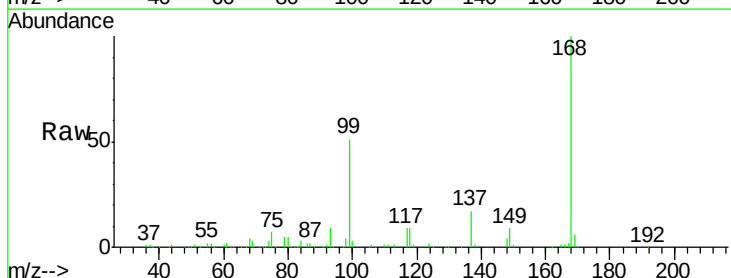
Instrument :
 MSVOA_N
 ClientSampleId :

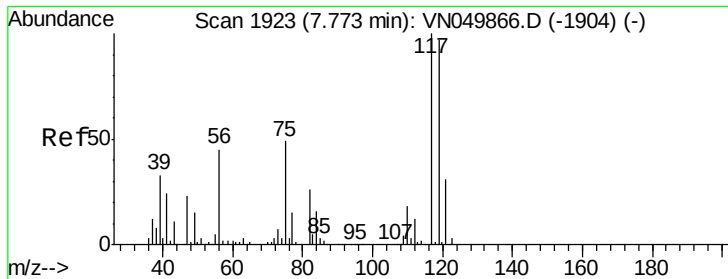
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.8
192	22.1	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049880.D
 Acq: 18 Jul 2018 18:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.4#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.48 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.10 min

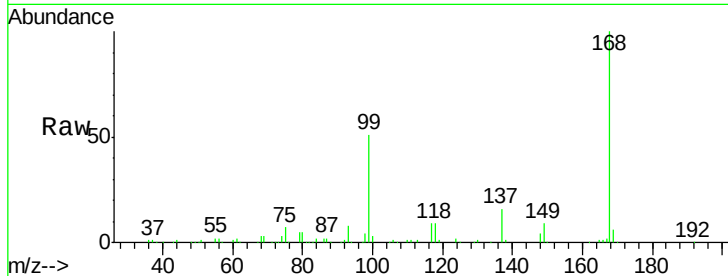
Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

ClientSampled :



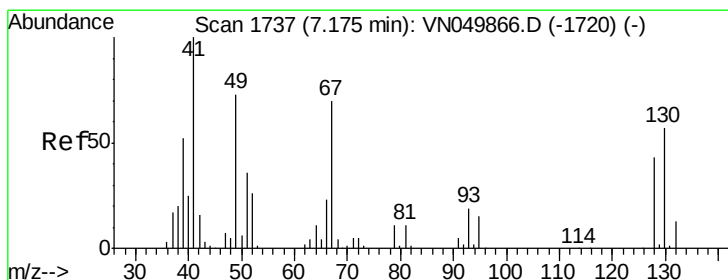
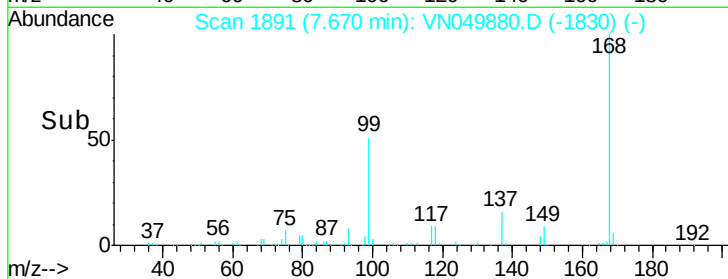
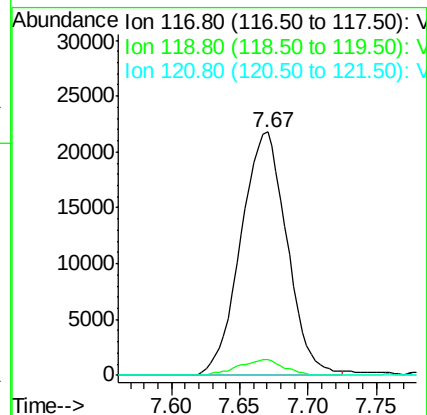
Tot Ion:117 Resp: 51127

Ion Ratio Lower Upper

117 100

119 6.4 77.2 115.8#

121 0.0 25.0 37.6#



#41

Methacrylonitrile

Concen: 0.22 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.04 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Tgt Ion: 41 Resp: 805

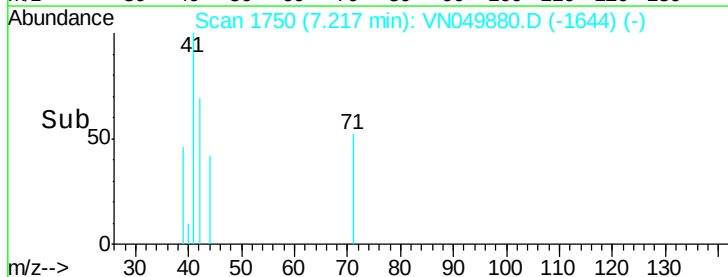
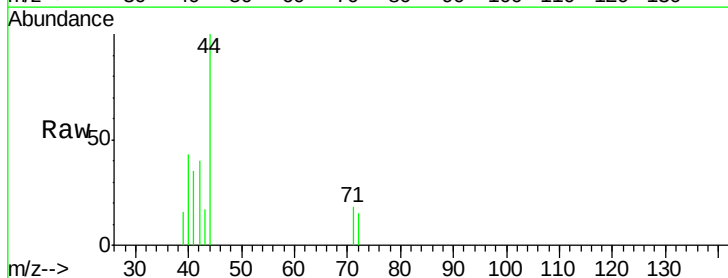
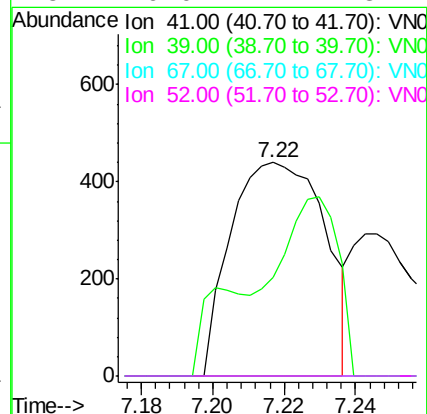
Ion Ratio Lower Upper

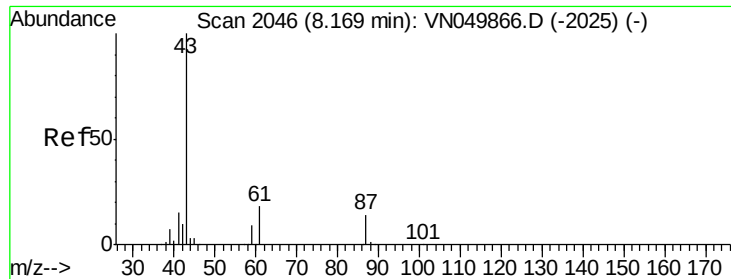
41 100

39 53.8 45.4 68.2

67 0.0 65.4 98.0#

52 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 22.43 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

ClientSampled :

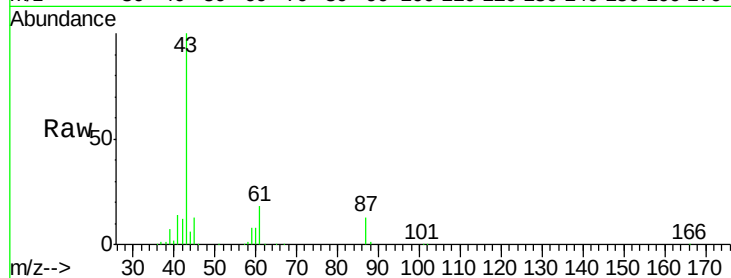
Tot Ion: 43 Resp: 286904

Ion Ratio Lower Upper

43 100

61 17.4 14.9 22.3

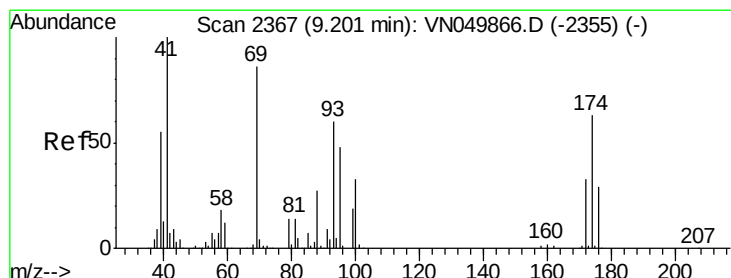
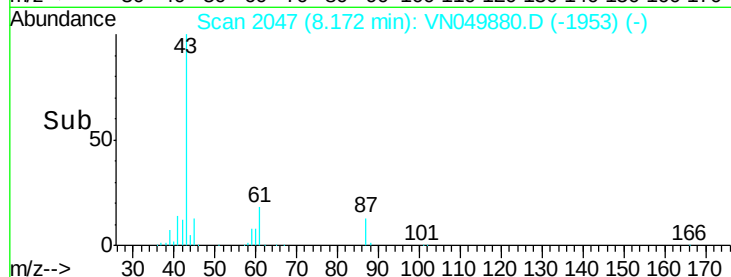
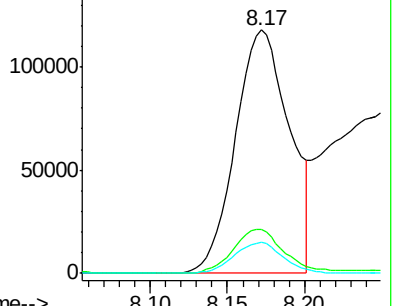
87 11.6 10.0 15.0



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2025) (-)

Ion 61.00 (60.70 to 61.70): VN049866.D (-2025) (-)

Ion 87.00 (86.70 to 87.70): VN049866.D (-2025) (-)



#48

Methyl methacrylate

Concen: 1.36 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

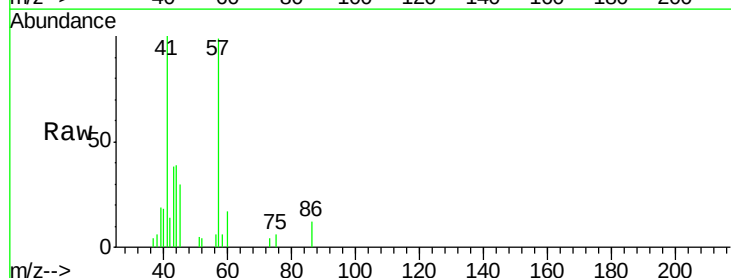
Tgt Ion: 41 Resp: 8699

Ion Ratio Lower Upper

41 100

69 0.0 71.5 107.3#

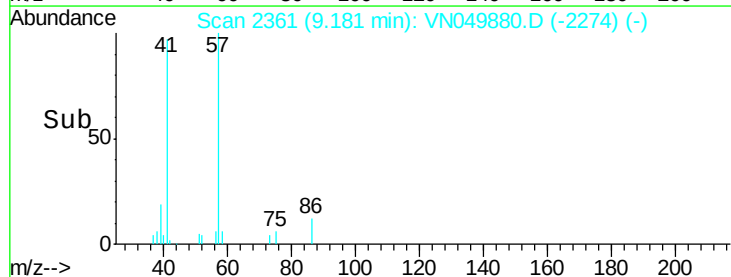
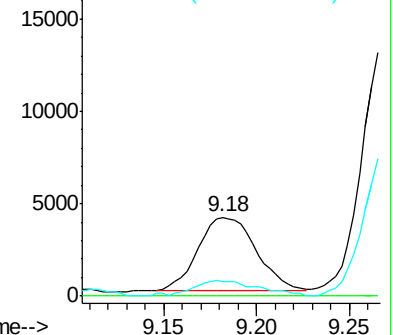
39 23.3 44.7 67.1#

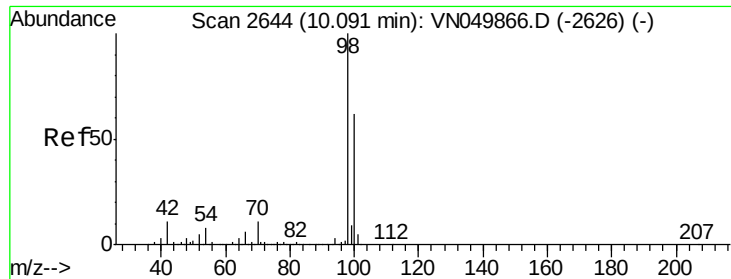


Abundance Ion 41.00 (40.70 to 41.70): VN049866.D (-2355) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-2355) (-)

Ion 39.00 (38.70 to 39.70): VN049866.D (-2355) (-)





#50

Toluene-d8

Concen: 43.58 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

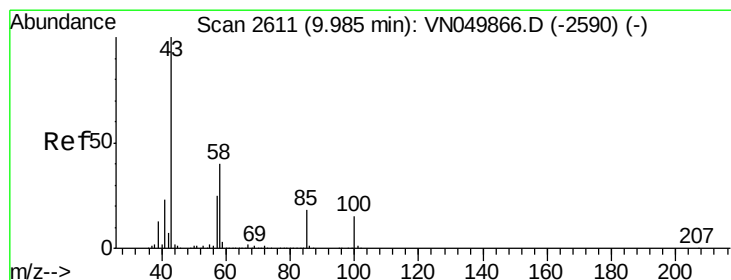
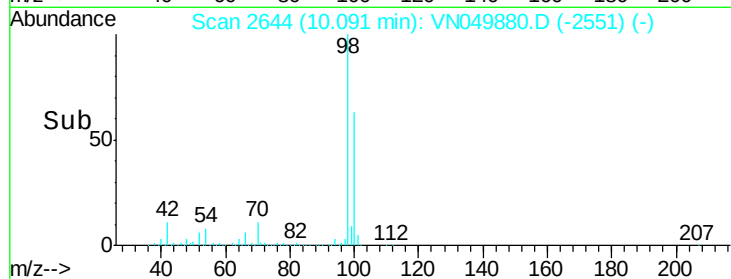
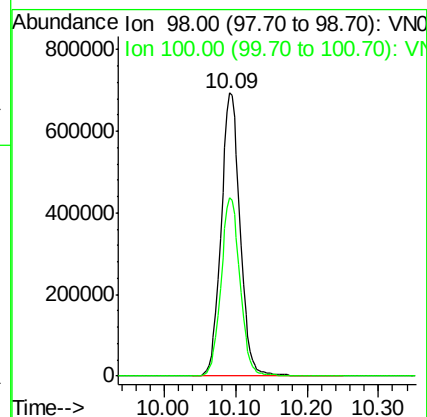
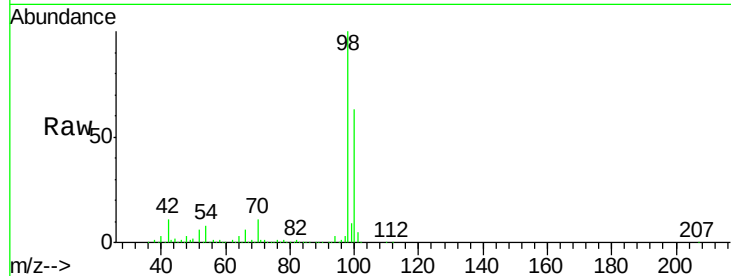
ClientSampleId :

Tot Ion: 98 Resp: 1278303

Ion Ratio Lower Upper

98 100

100 63.2 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 0.37 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.01 min

Lab File: VN049880.D

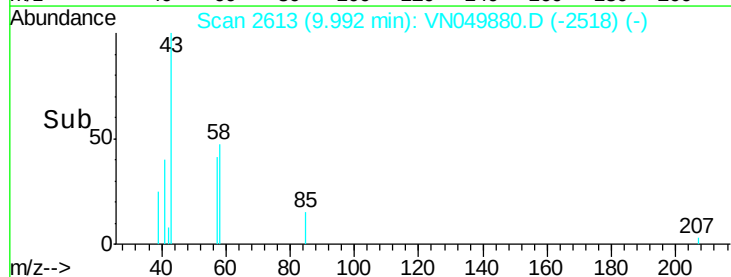
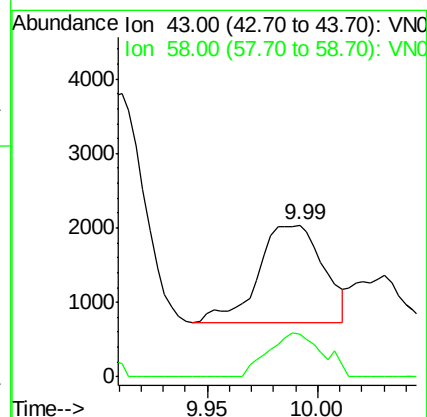
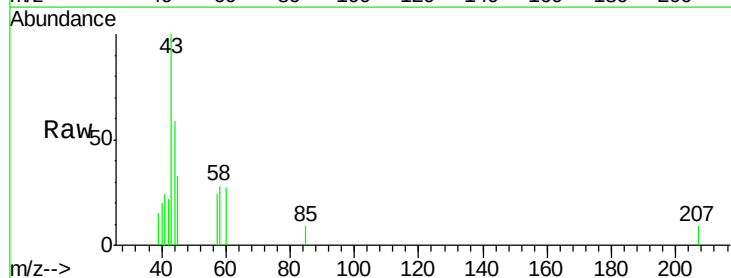
Acq: 18 Jul 2018 18:29

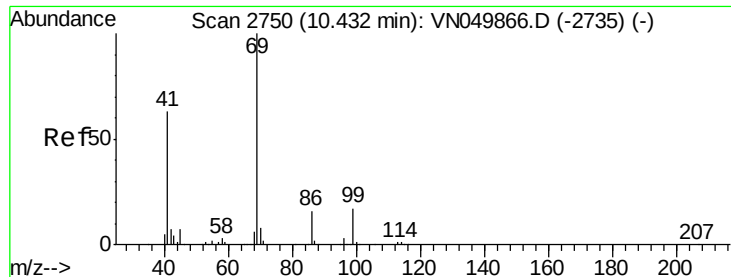
Tgt Ion: 43 Resp: 2673

Ion Ratio Lower Upper

43 100

58 37.5 31.8 47.8





#56

Ethyl methacrylate

Concen: 2.38 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

ClientSampled :

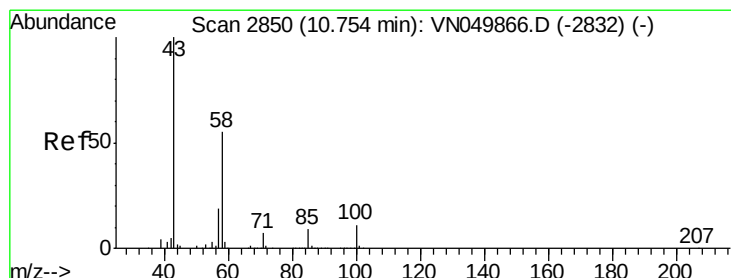
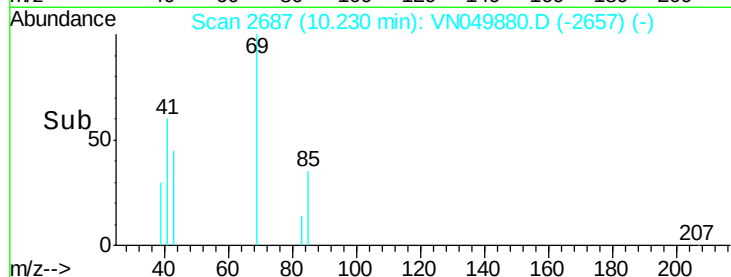
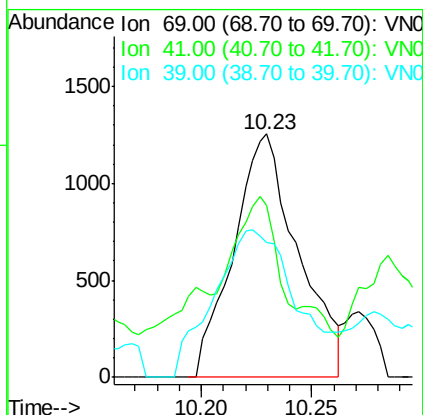
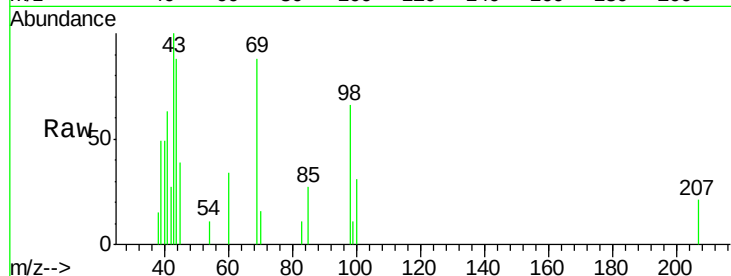
Tot Ion: 69 Resp: 2549

Ion Ratio Lower Upper

69 100

41 45.9 51.6 77.4#

39 76.2 25.8 38.8#



#59

2-Hexanone

Concen: 4.63 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049880.D

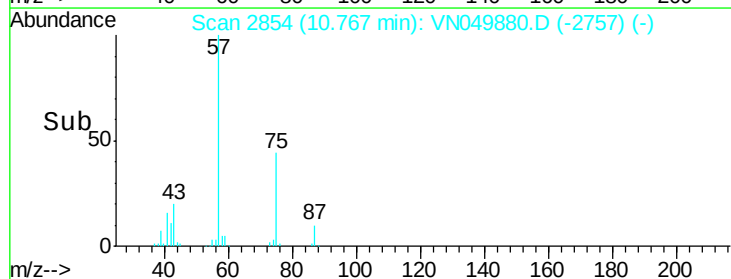
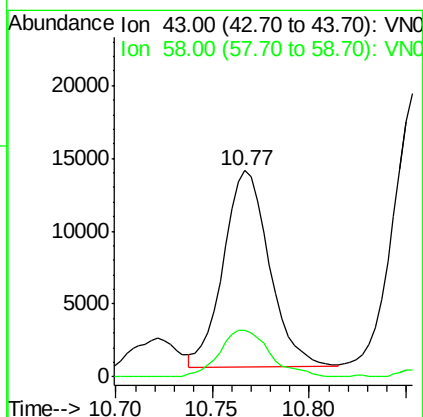
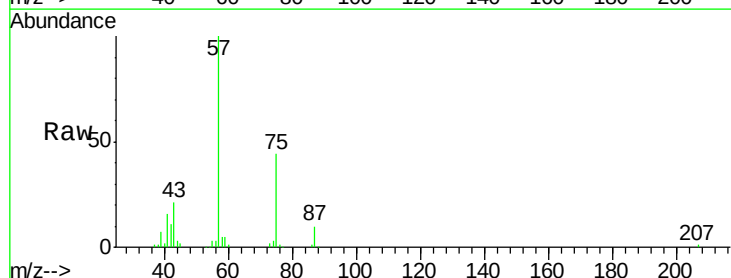
Acq: 18 Jul 2018 18:29

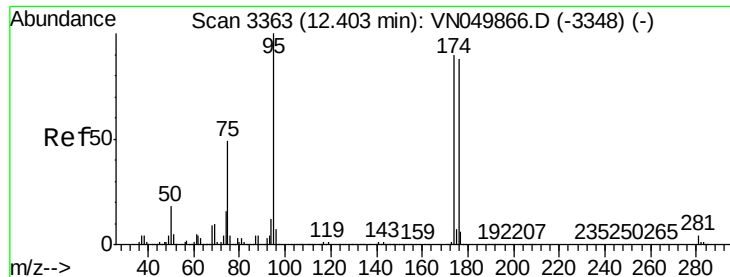
Tgt Ion: 43 Resp: 22258

Ion Ratio Lower Upper

43 100

58 26.5 27.8 83.4#

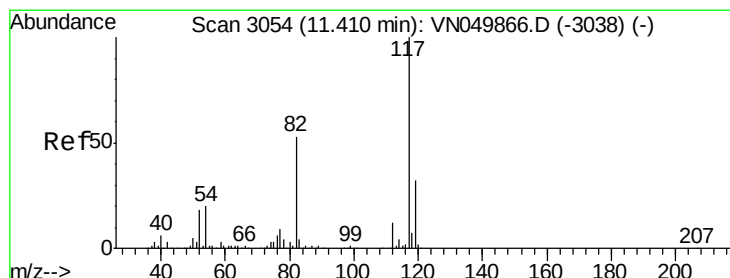
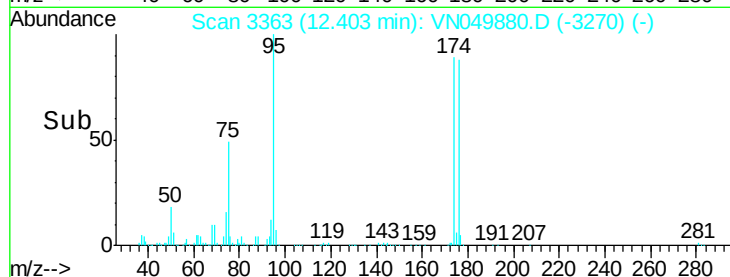
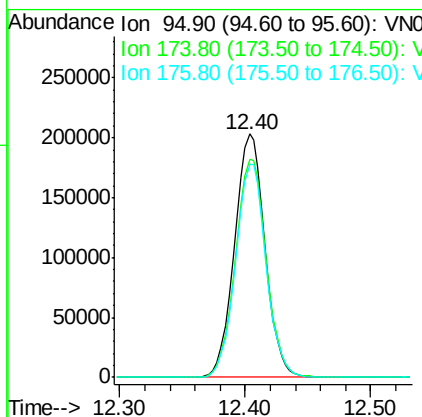
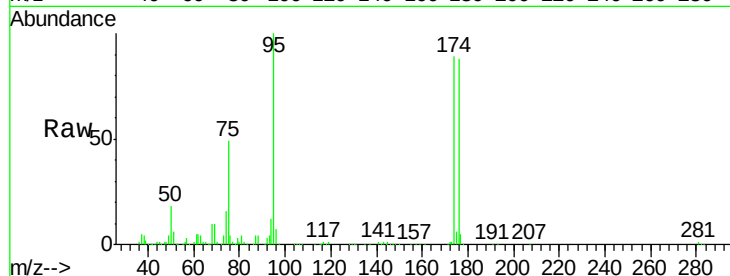




#62
4-Bromofluorobenzene
Concen: 33.77 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049880.D
Acq: 18 Jul 2018 18:29

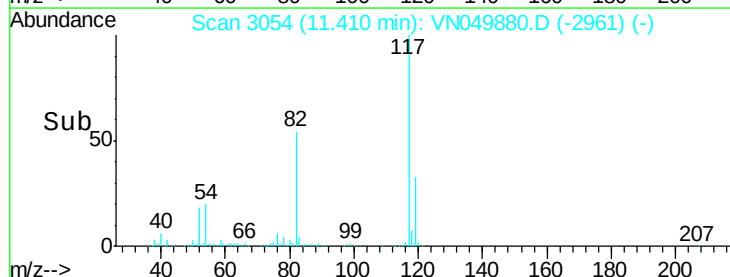
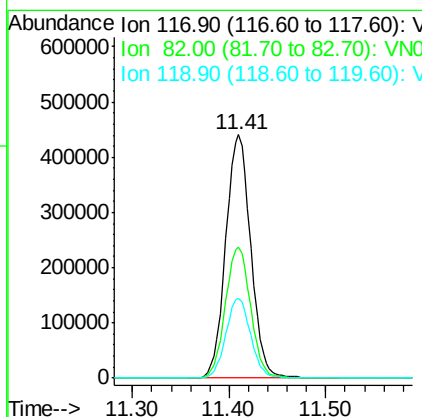
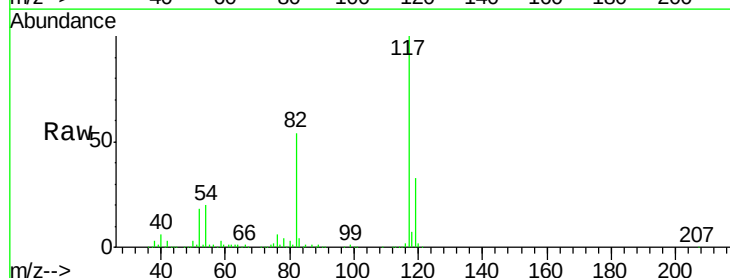
Instrument :
MSVOA_N
ClientSampled :

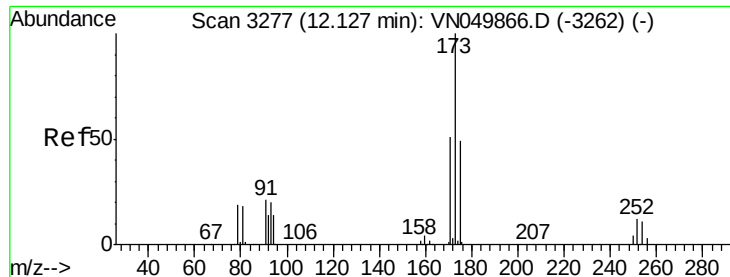
Tot Ion	95	Resp	341100
Ion Ratio	Lower	Upper	
95	100		
174	91.4	0.0	179.6
176	87.8	0.0	174.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049880.D
Acq: 18 Jul 2018 18:29

Tgt Ion	117	Resp	790886
Ion Ratio	Lower	Upper	
117	100		
82	53.7	41.9	62.9
119	32.8	25.4	38.2





#71

Bromoform

Concen: 0.57 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

ClientSampleId :

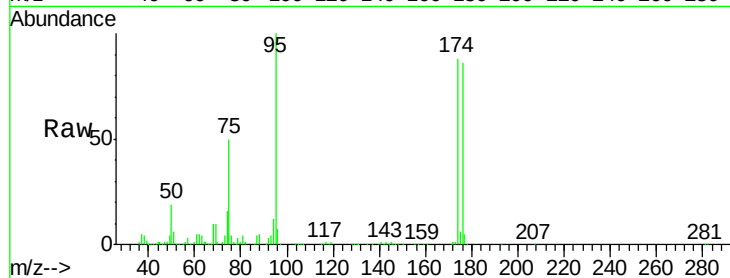
Tot Ion:173 Resp: 3156

Ion Ratio Lower Upper

173 100

175 594.6 24.6 73.8#

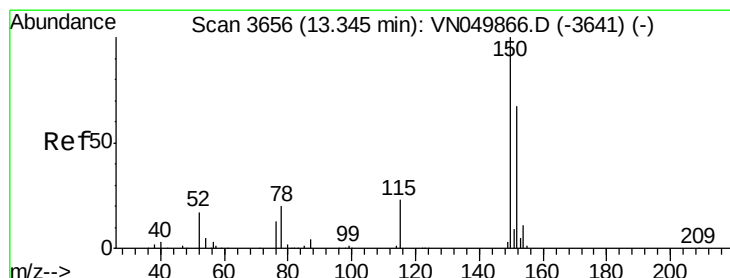
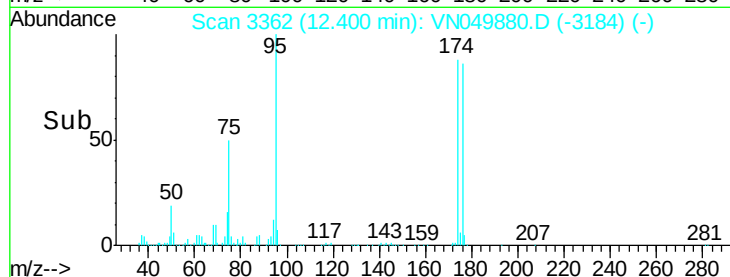
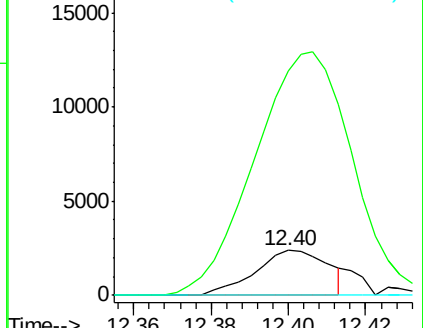
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

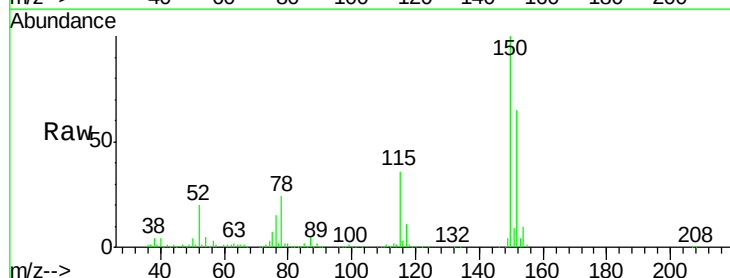
Tgt Ion:152 Resp: 280297

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.2

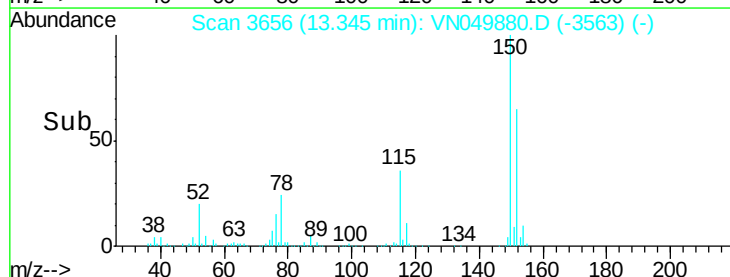
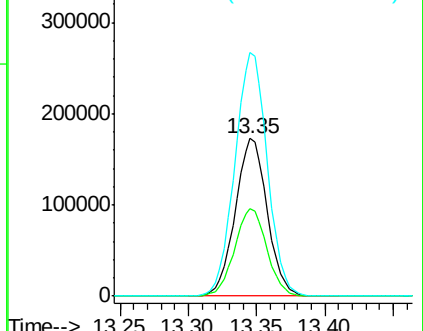
150 156.9 0.0 347.6

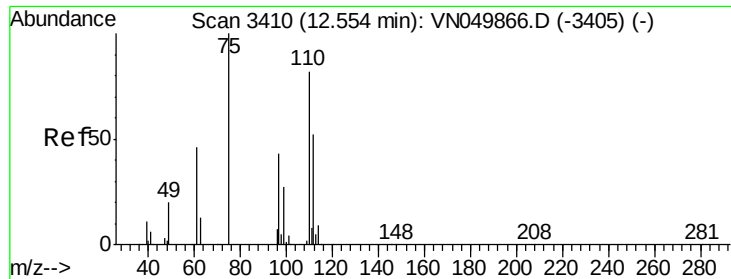


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.89 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

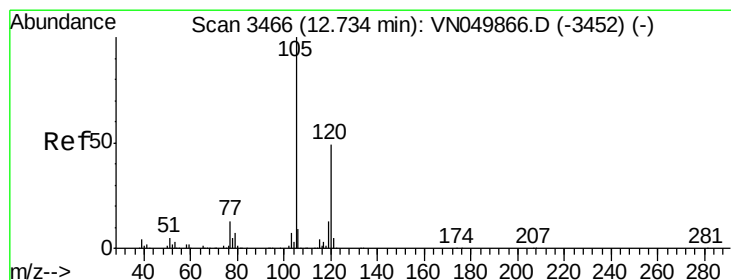
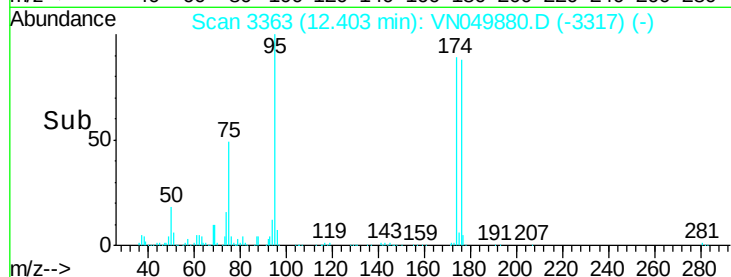
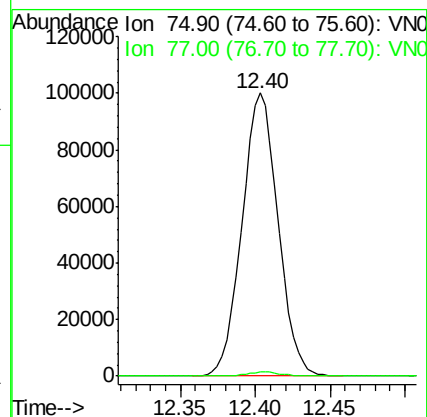
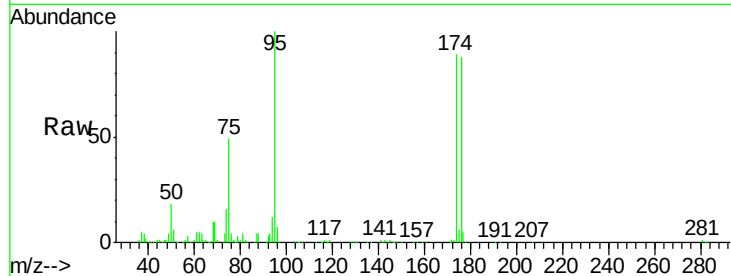
ClientSampled :

Tot Ion: 75 Resp: 167670

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN049880.D

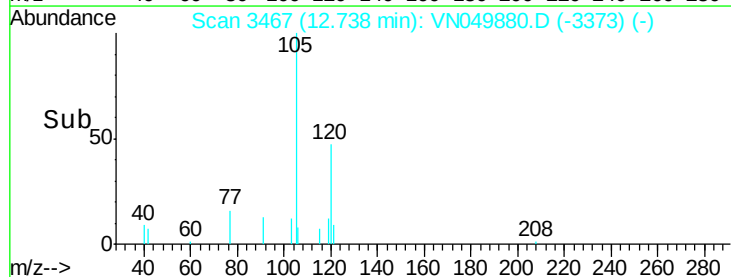
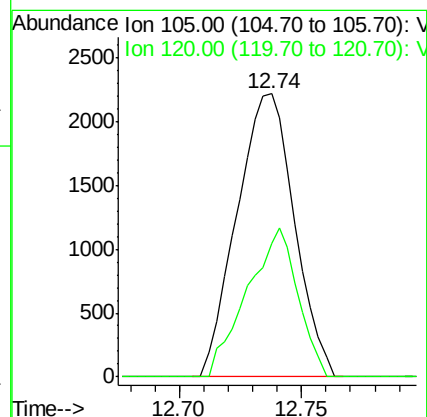
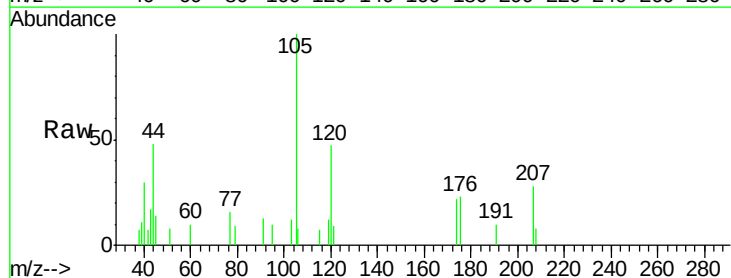
Acq: 18 Jul 2018 18:29

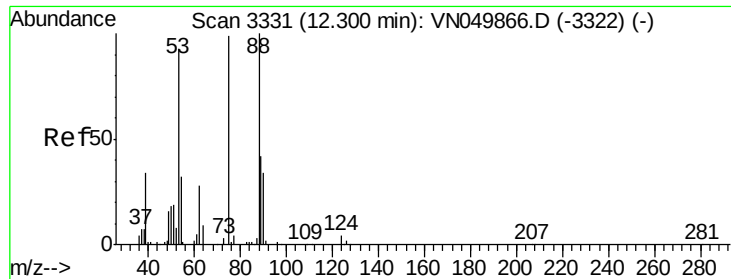
Tgt Ion: 105 Resp: 3615

Ion Ratio Lower Upper

105 100

120 46.5 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 99.71 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

ClientSampleId :

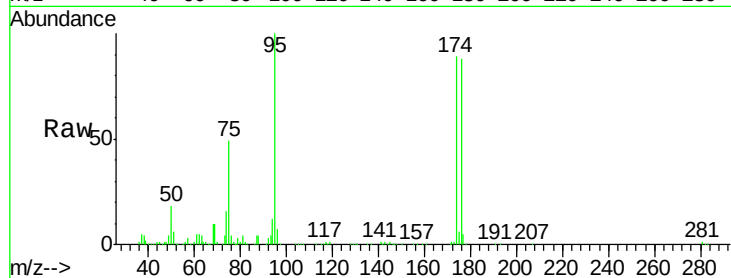
Tot Ion: 75 Resp: 167670

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

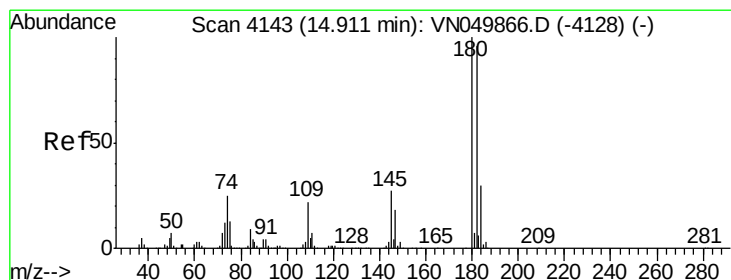
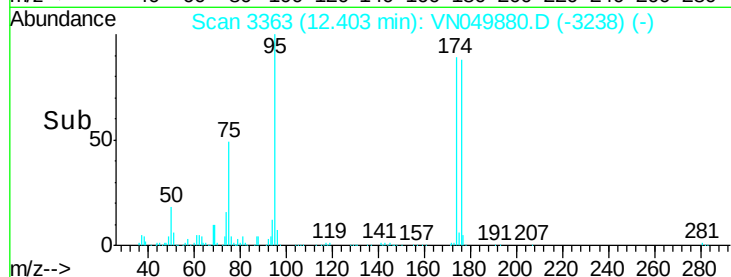
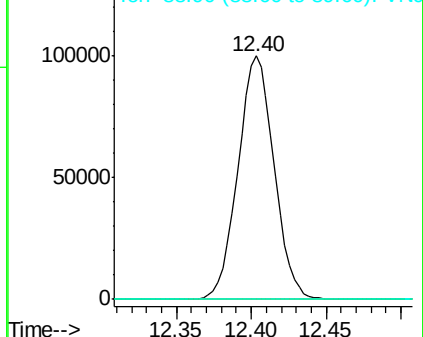
89 0.0 35.9 53.9#



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: 3.55 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

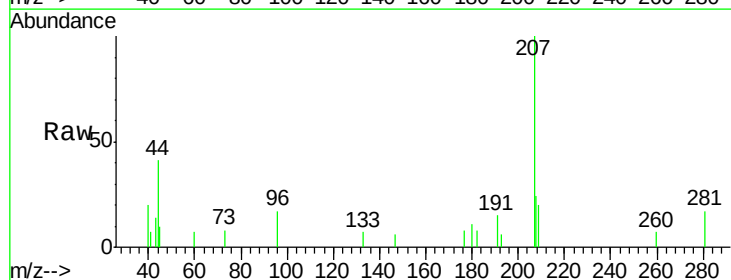
Tgt Ion:180 Resp: 423

Ion Ratio Lower Upper

180 100

182 62.2 47.3 141.9

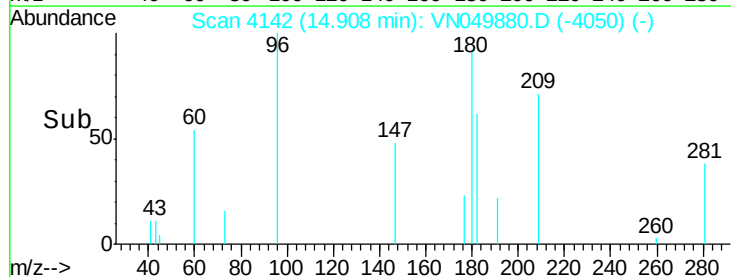
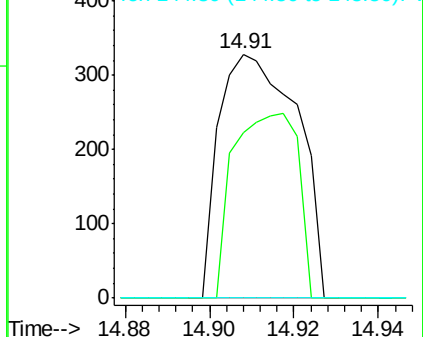
145 0.0 14.4 43.0#

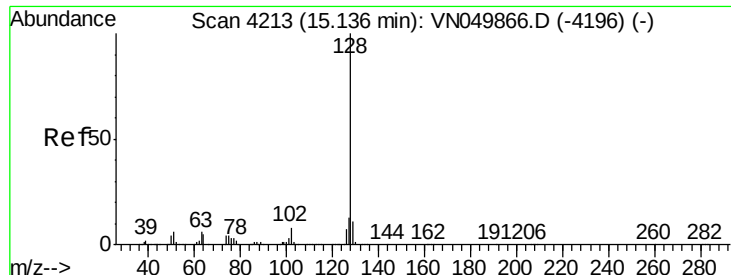


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.55 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

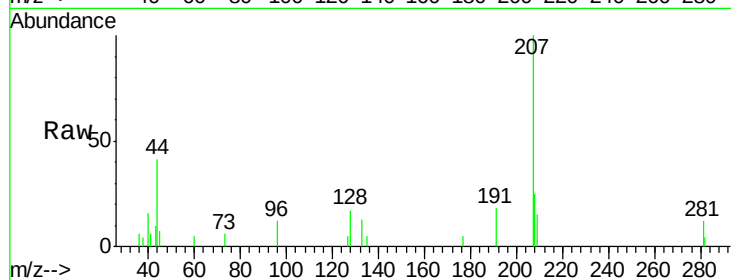
Lab File: VN049880.D

Acq: 18 Jul 2018 18:29

Instrument :

MSVOA_N

ClientSampleId :



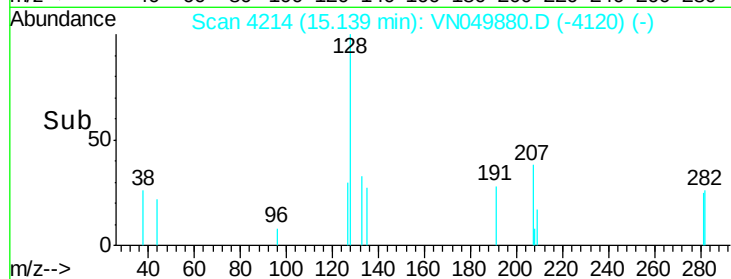
Tot Ion:128 Resp: 809

Ion Ratio Lower Upper

128 100

127 8.2 10.4 15.6#

129 0.0 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

