

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049871.D
 Acq On : 18 Jul 2018 14:35
 Operator : MD\SY
 Sample : PB111206ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 01:18:17 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	606689	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	963790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	817940	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	305980	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	414928	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
35) Dibromofluoromethane	7.59	113	370184	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	
50) Toluene-d8	10.09	98	1322288	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
62) 4-Bromofluorobenzene	12.40	95	360543	35.51	ug/l	0.00
Spiked Amount			Recovery	=	71.02%	

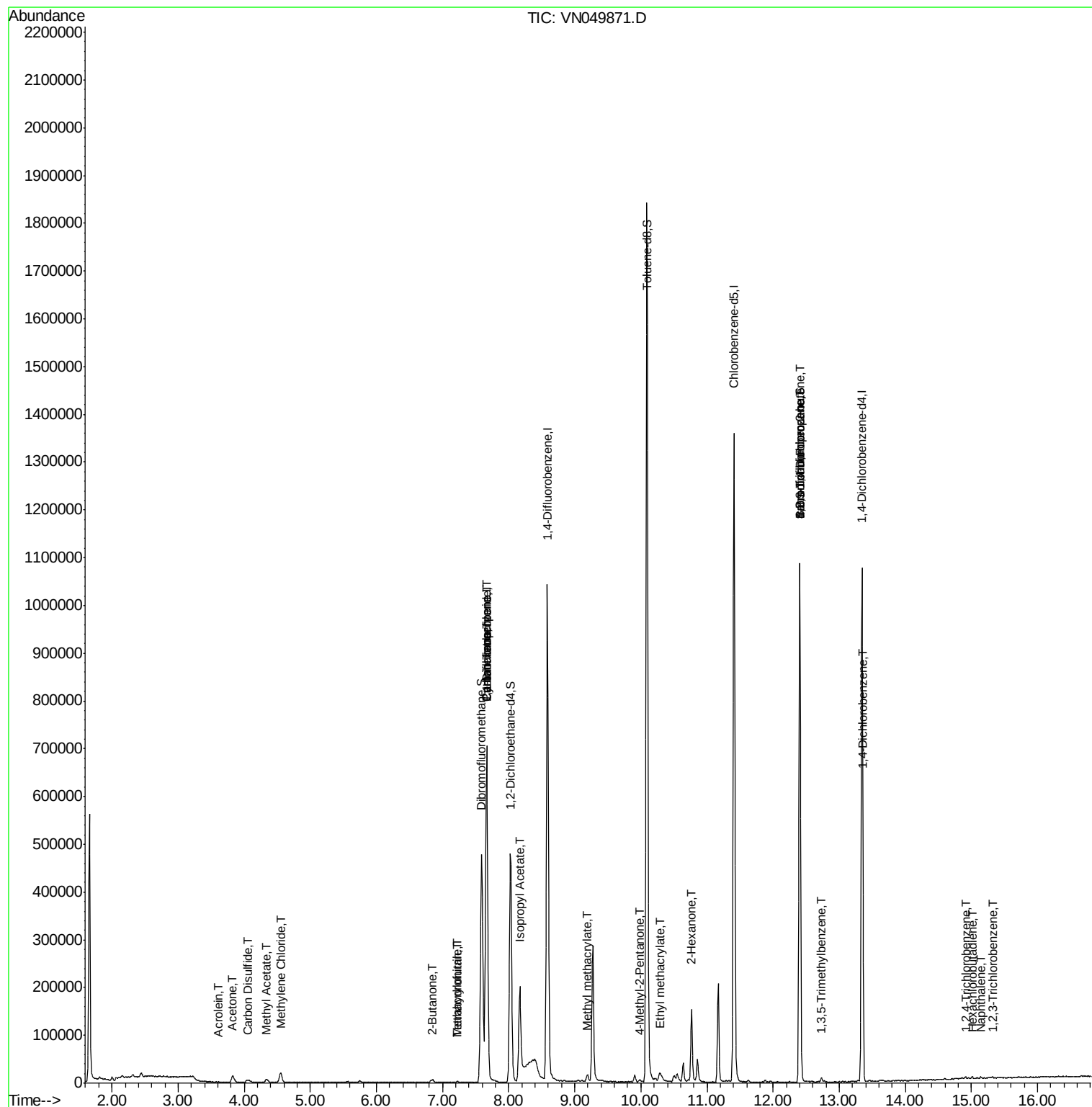
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	599	Below Cal	#	54
13) Acrolein	3.61	56	217	0.57	ug/l	# 56
16) Acetone	3.82	43	23442	10.86	ug/l	99
17) Carbon Disulfide	4.05	76	7192	0.37	ug/l	99
18) Methyl Acetate	4.33	43	12888	1.09	ug/l	95
20) Methylene Chloride	4.55	84	14796	1.80	ug/l	93
25) 2-Butanone	6.85	43	5599	1.81	ug/l	# 80
29) Tetrahydrofuran	7.22	42	2014	1.04	ug/l	# 70
31) Cyclohexane	7.66	56	11331	1.02	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	42245	3.94	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	55251	4.81	ug/l	# 15
41) Methacrylonitrile	7.22	41	1134	0.31	ug/l	# 45
43) Isopropyl Acetate	8.17	43	248187	19.30	ug/l	99
48) Methyl methacrylate	9.18	41	9058	1.40	ug/l	# 22
51) 4-Methyl-2-Pentanone	9.99	43	2613	0.36	ug/l	# 85
56) Ethyl methacrylate	10.29	69	141	2.17	ug/l	# 1
59) 2-Hexanone	10.77	43	21513	4.46	ug/l	62
71) Bromoform	12.41	173	3208	0.56	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	178661	31.13	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	3898	0.21	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	178661	97.33	ug/l	# 13
88) 1,4-Dichlorobenzene	13.37	146	2332	0.21	ug/l	# 1
93) 1,2,4-Trichlorobenzene	14.91	180	1205	3.66	ug/l	96
94) Hexachlorobutadiene	15.01	225	928	0.26	ug/l	94
95) Naphthalene	15.14	128	2805	4.67	ug/l	# 87
96) 1,2,3-Trichlorobenzene	15.32	180	1331	0.25	ug/l	87

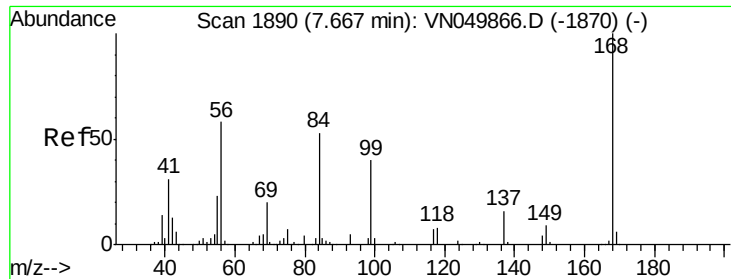
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Jul 19 01:18:17 2018
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: VN049871.D

Acq: 18 Jul 2018 14:35

Instrument :

MSVOA_N

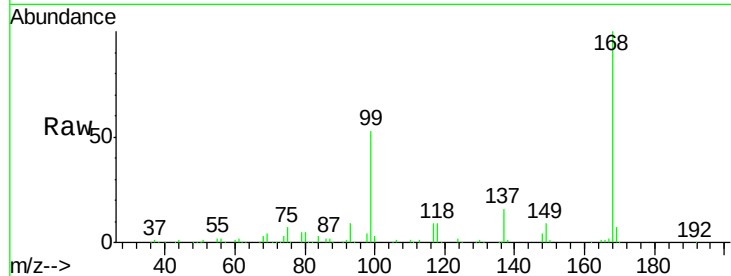
ClientSampled :

Tot Ion:168 Resp: 606689

Ion Ratio Lower Upper

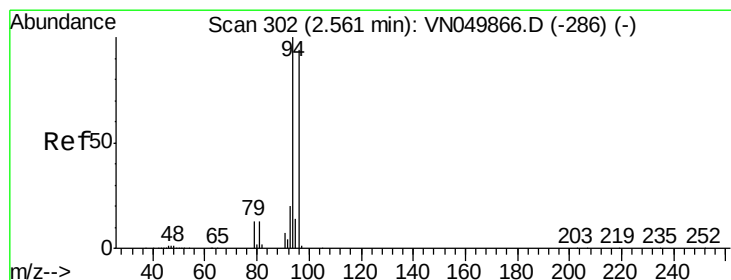
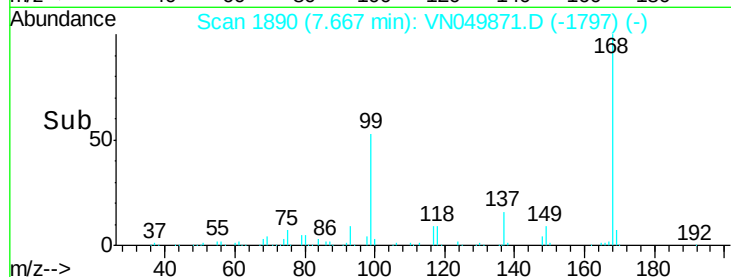
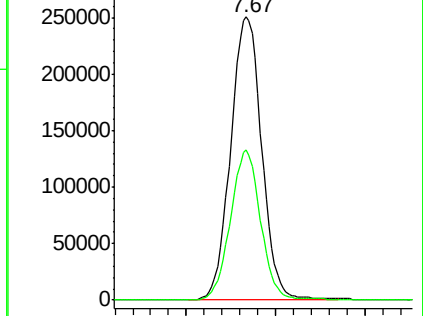
168 100

99 53.0 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# 305

Delta R.T. 0.01 min

Lab File: VN049871.D

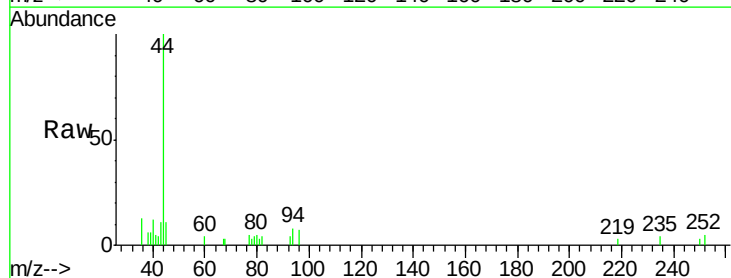
Acq: 18 Jul 2018 14:35

Tgt Ion: 94 Resp: 599

Ion Ratio Lower Upper

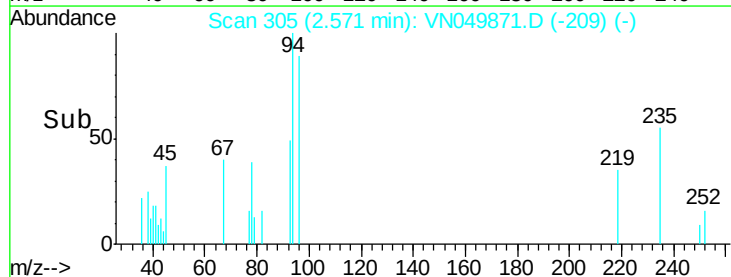
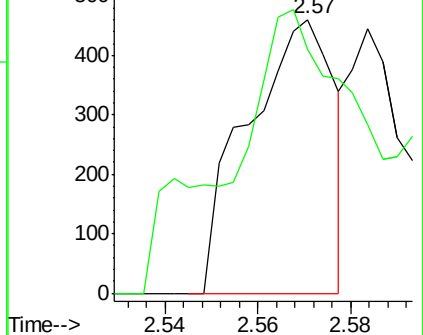
94 100

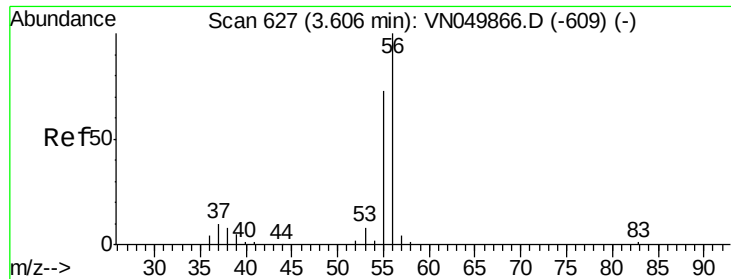
96 50.3 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

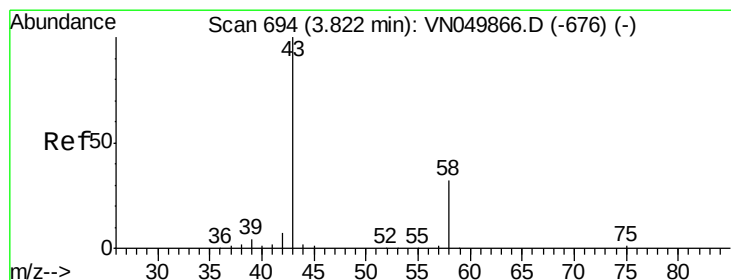
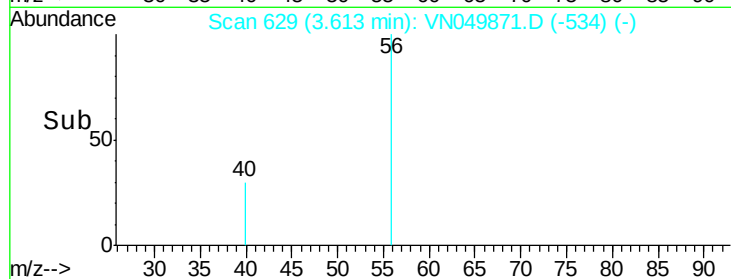
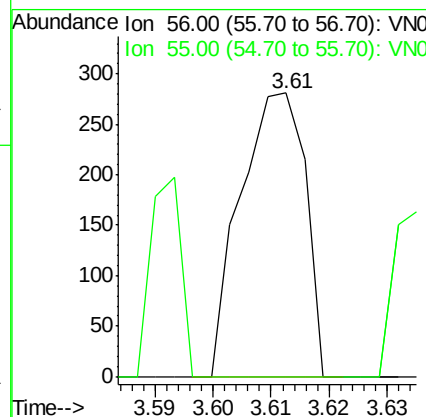
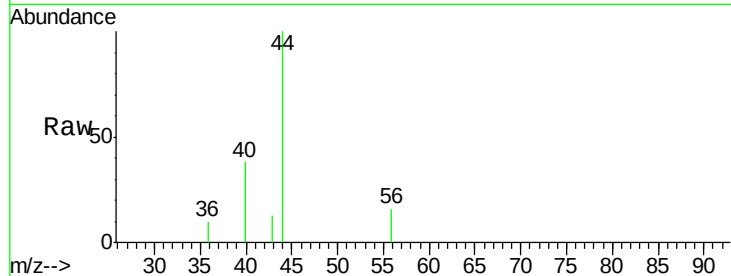




#13
Acrolein
Concen: 0.57 ug/l
RT: 3.61 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

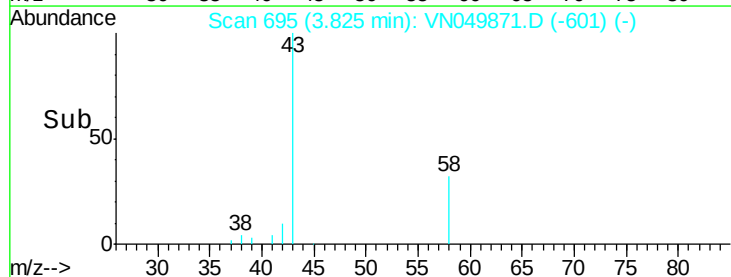
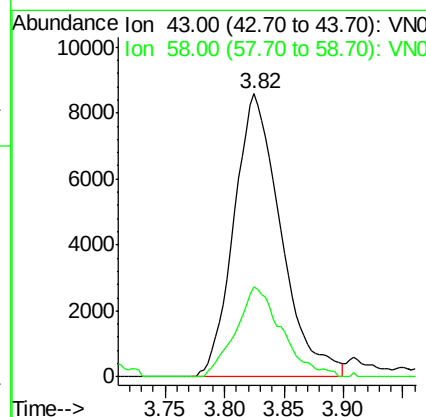
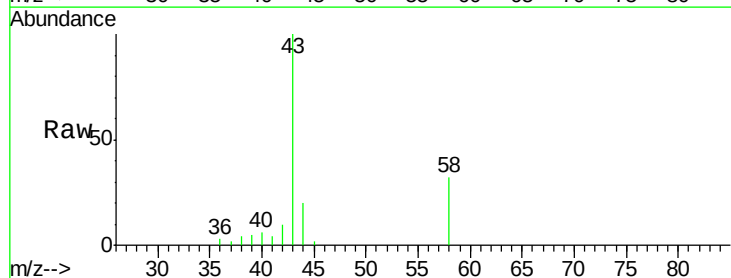
Instrument :
MSVOA_N
ClientSampled :

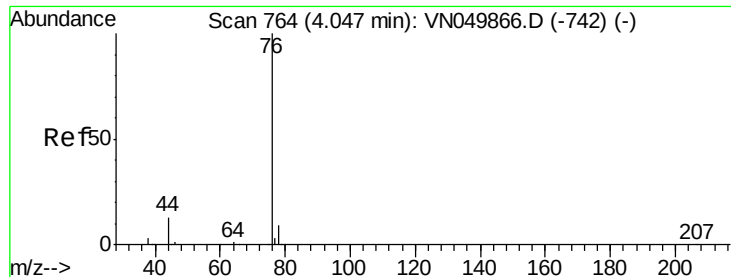
Tot Ion: 56 Resp: 217
Ion Ratio Lower Upper
56 100
55 33.6 55.8 83.8#



#16
Acetone
Concen: 10.86 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Tgt Ion: 43 Resp: 23442
Ion Ratio Lower Upper
43 100
58 31.9 25.9 38.9

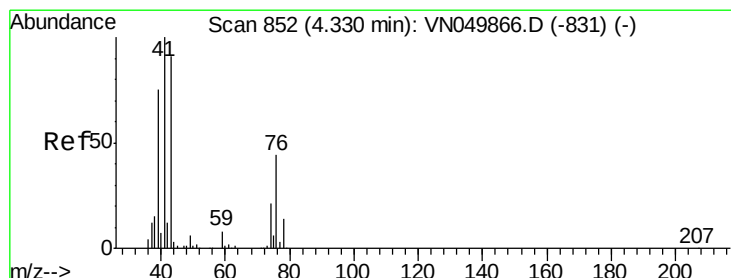
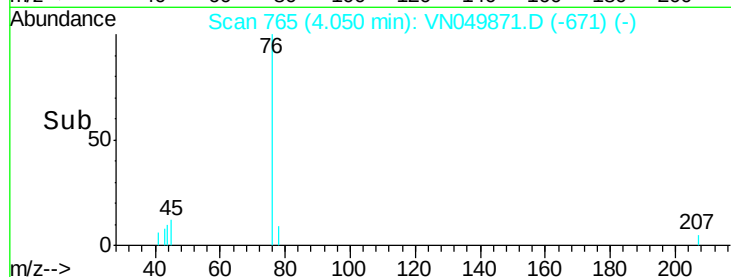
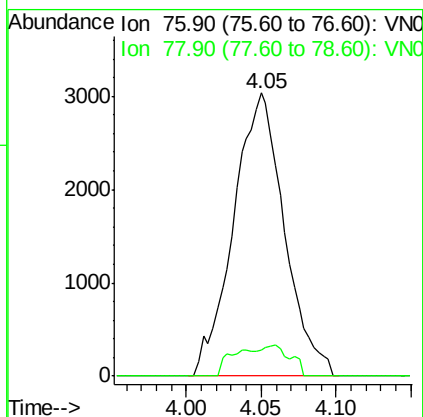
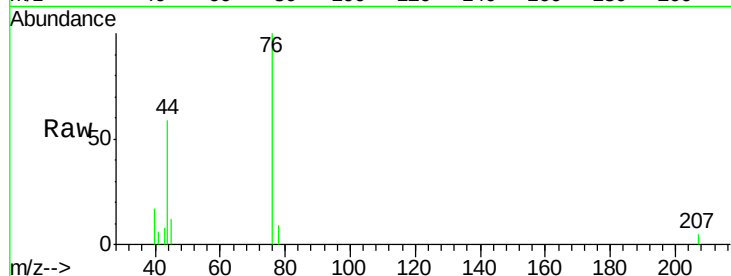




#17
Carbon Disulfide
Concen: 0.37 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

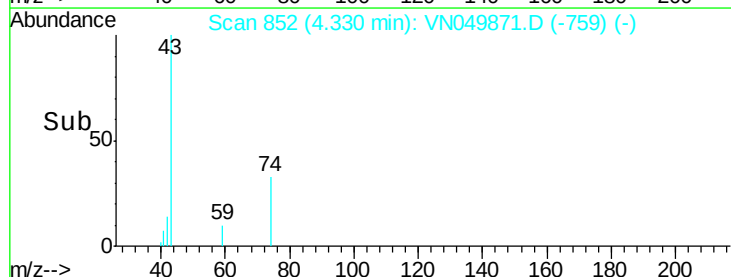
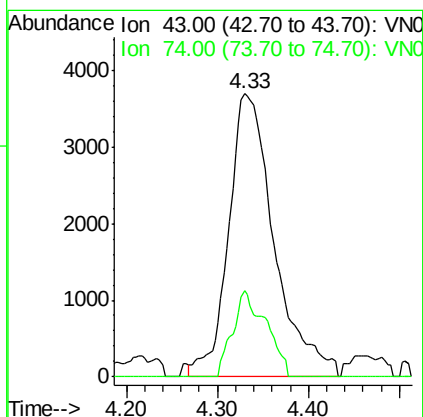
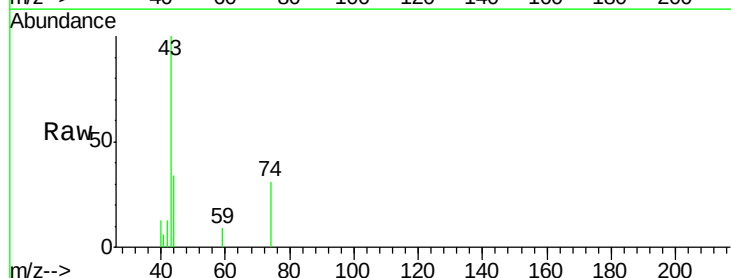
Instrument :
MSVOA_N
ClientSampled :

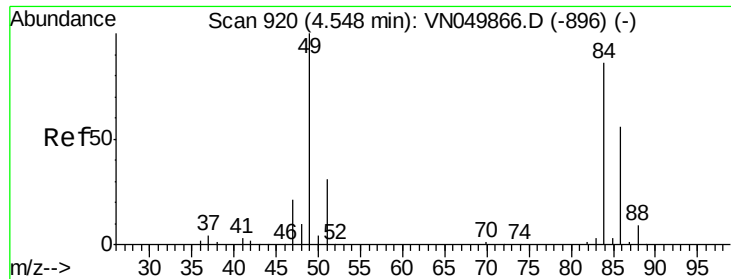
Tot Ion: 76 Resp: 7192
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7



#18
Methyl Acetate
Concen: 1.09 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Tgt Ion: 43 Resp: 12888
Ion Ratio Lower Upper
43 100
74 22.1 19.8 29.8

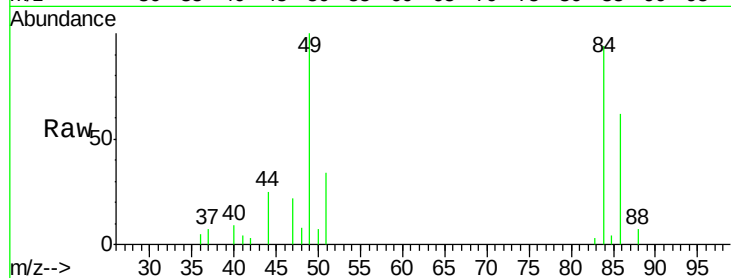




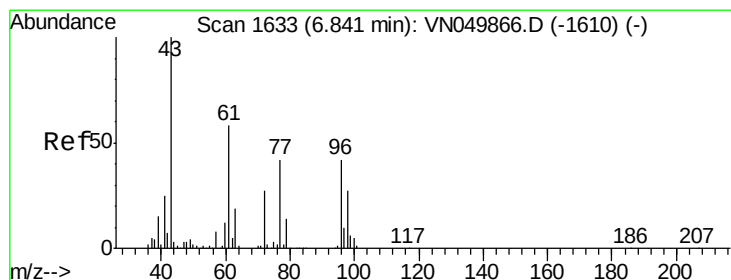
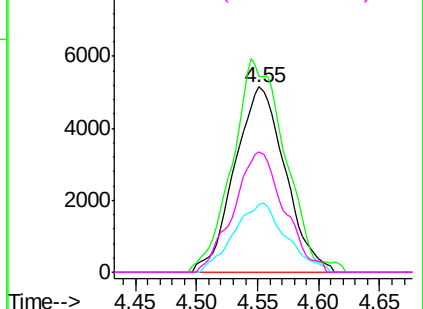
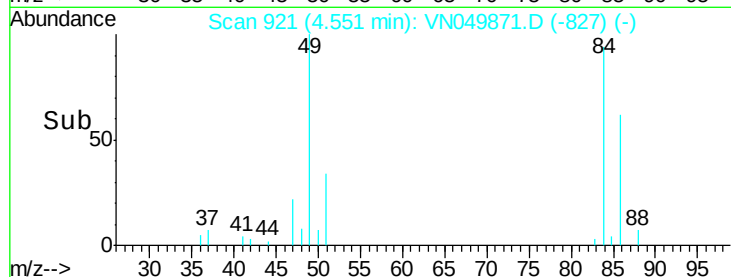
#20
Methvlene Chloride
Concen: 1.80 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 14796
Ion Ratio Lower Upper
84 100
49 106.0 95.4 143.2
51 36.4 28.4 42.6
86 65.3 52.6 79.0

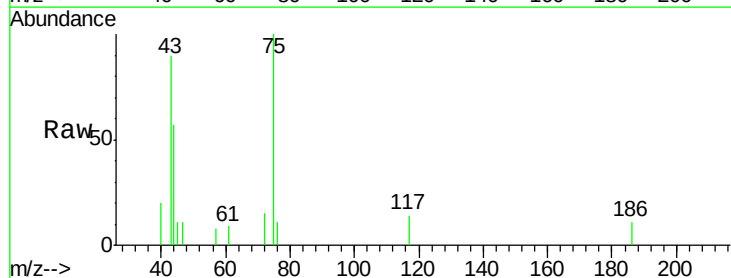


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

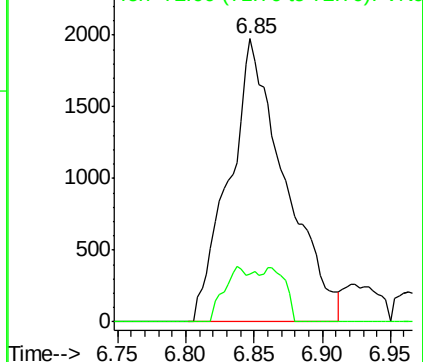
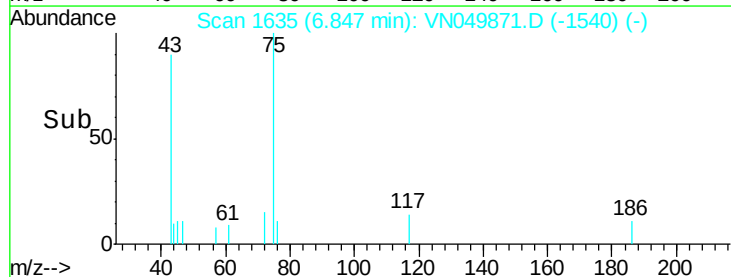


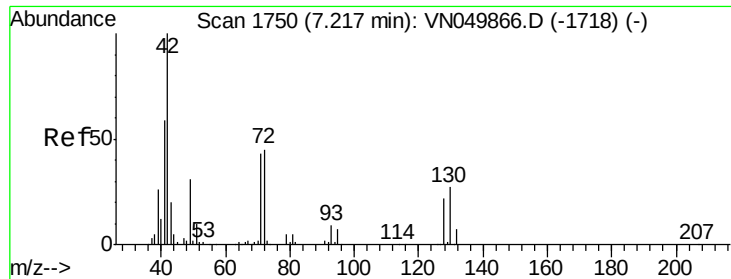
#25
2-Butanone
Concen: 1.81 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Tgt Ion: 43 Resp: 5599
Ion Ratio Lower Upper
43 100
72 17.1 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

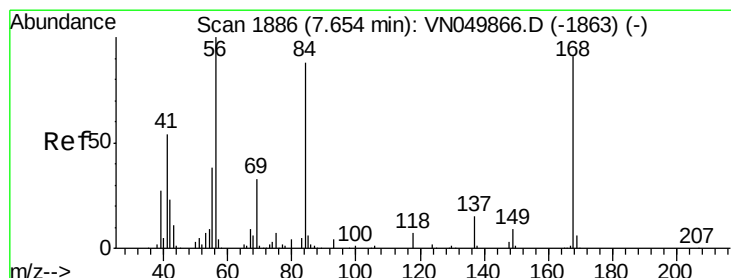
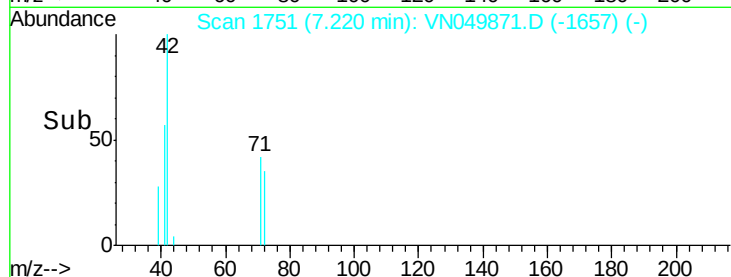
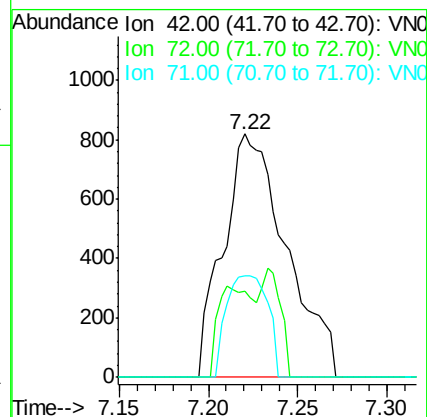
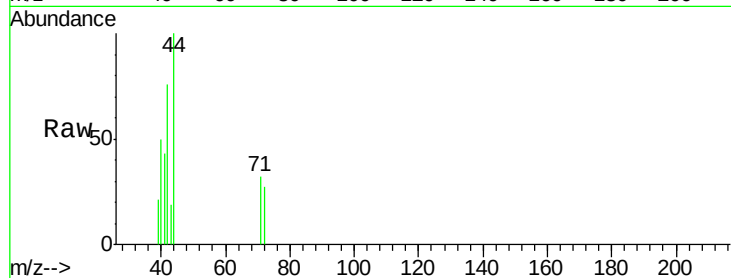




#29
Tetrahydrofuran
Concen: 1.04 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

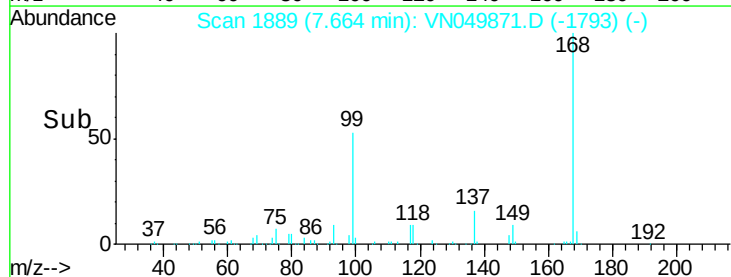
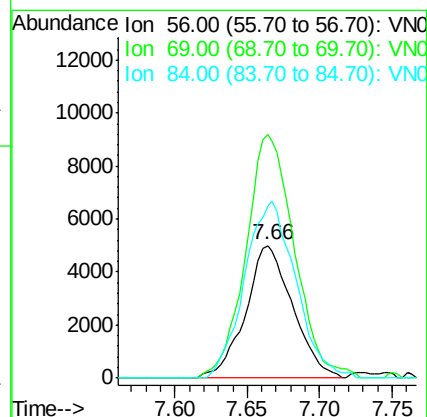
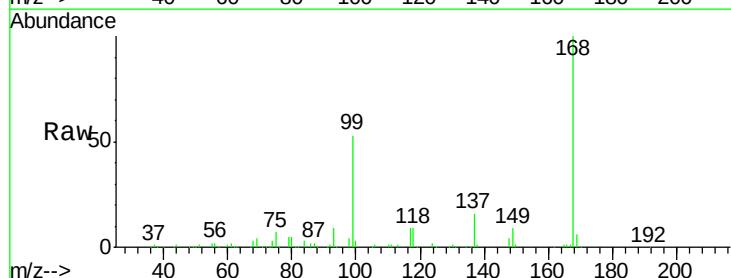
Instrument :
MSVOA_N
ClientSampleId :

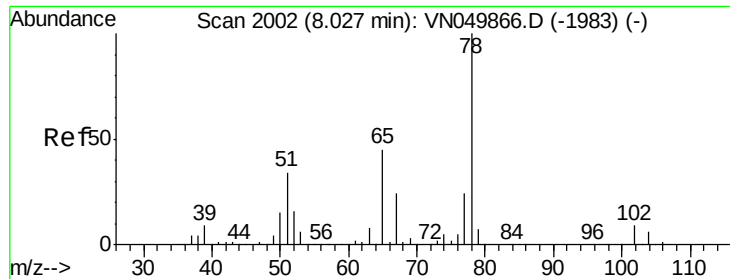
Tot Ion: 42 Resp: 2014
Ion Ratio Lower Upper
42 100
72 20.7 35.6 53.4#
71 27.2 34.0 51.0#



#31
Cyclohexane
Concen: 1.02 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Tgt Ion: 56 Resp: 11331
Ion Ratio Lower Upper
56 100
69 183.5 26.6 40.0#
84 129.7 69.0 103.6#

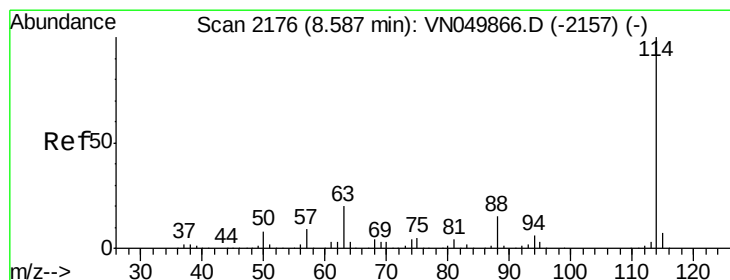
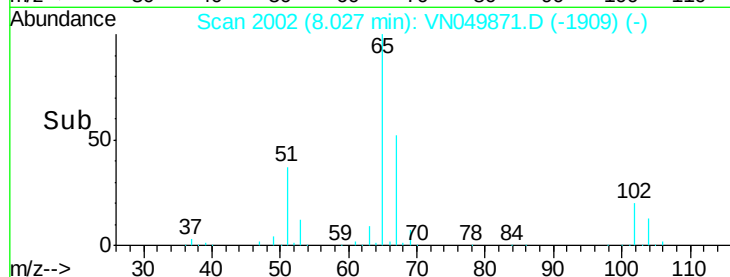
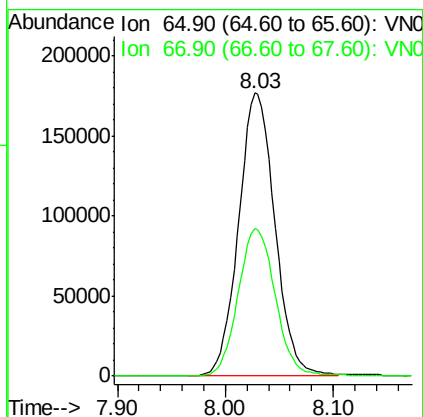
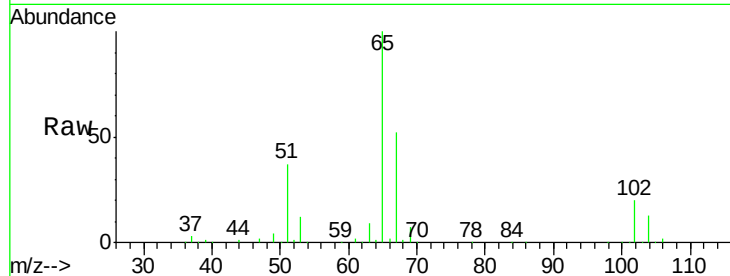




#33
 1,2-Dichloroethane-d4
 Concen: 49.76 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN049871.D
 Acq: 18 Jul 2018 14:35

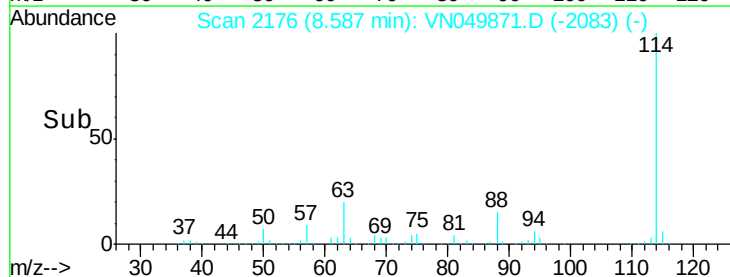
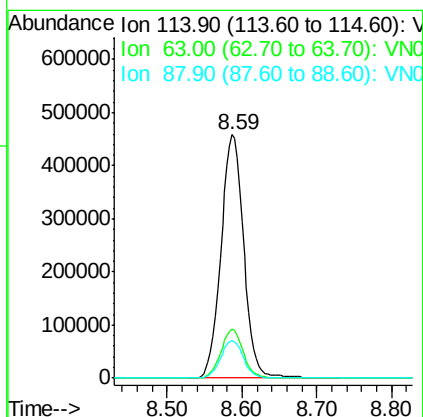
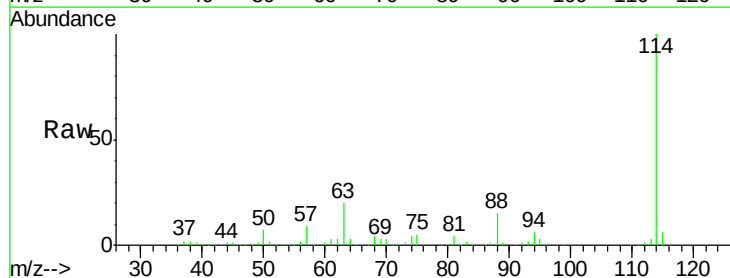
Instrument :
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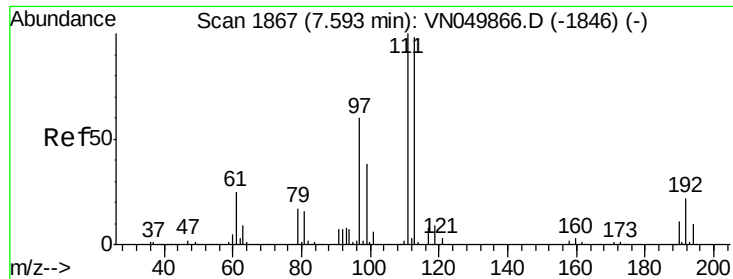
Tot Ion: 65 Resp: 414928
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049871.D
 Acq: 18 Jul 2018 14:35

Tgt Ion: 114 Resp: 963790
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.8
 88 15.2 0.0 30.6

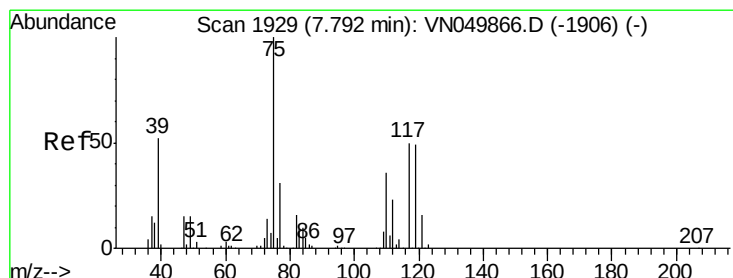
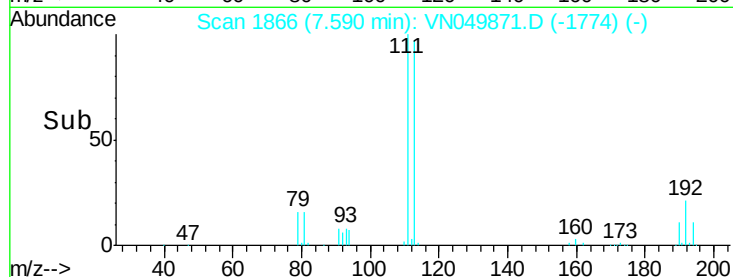
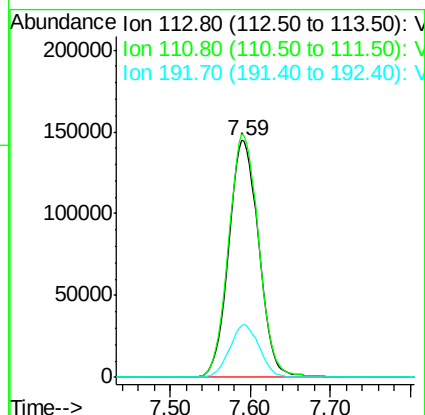
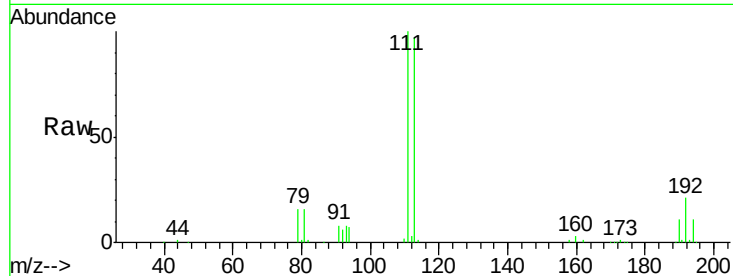




#35
 Dibromofluoromethane
 Concen: 45.75 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN049871.D
 Acq: 18 Jul 2018 14:35

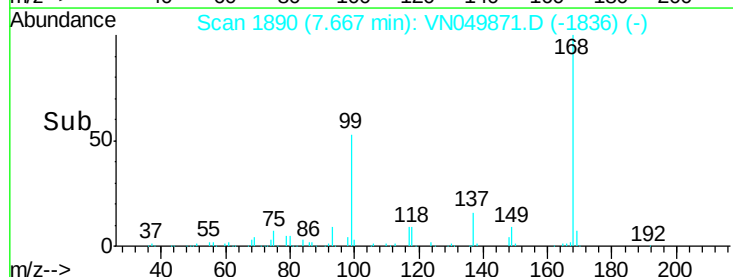
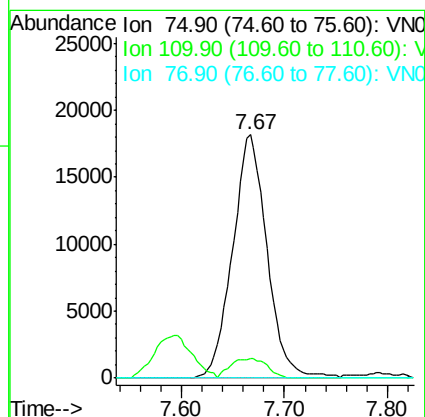
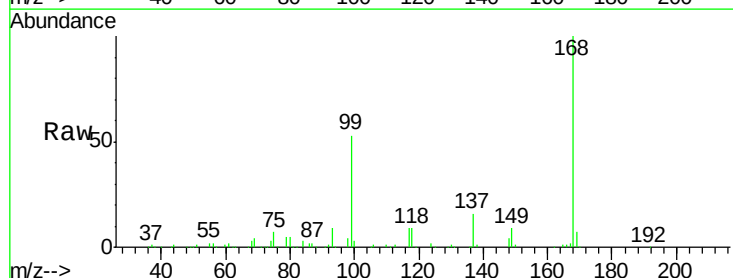
Instrument :
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 ClientSampled :

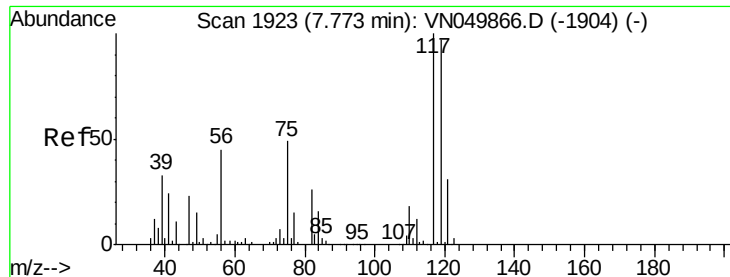
Tot Ion:113 Resp: 370184
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.8 122.8
 192 22.1 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.94 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049871.D
 Acq: 18 Jul 2018 14:35

Tgt Ion: 75 Resp: 42245
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.4#
 77 0.0 24.9 37.3#

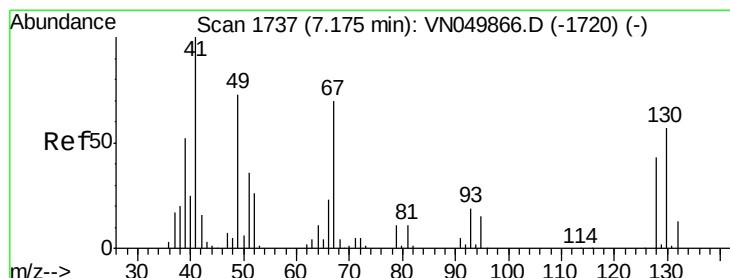
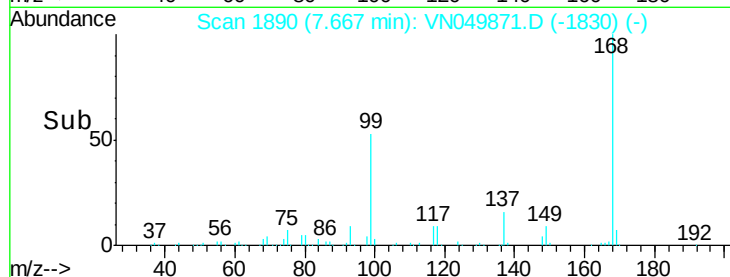
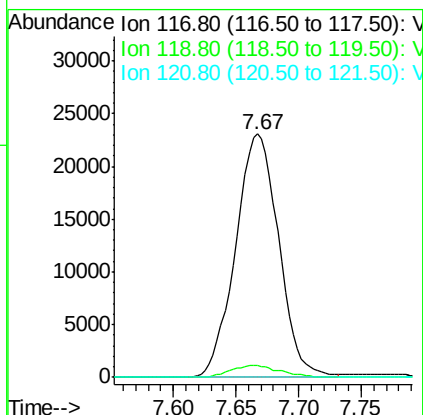
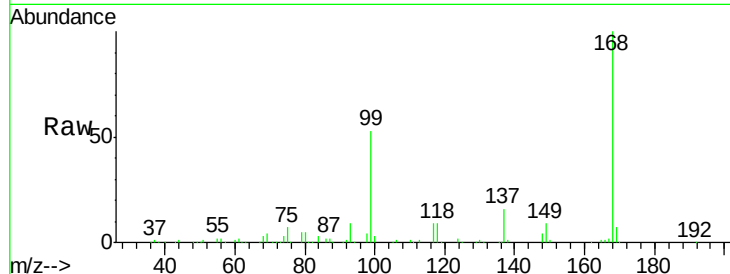




#38
Carbon Tetrachloride
Concen: 4.81 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

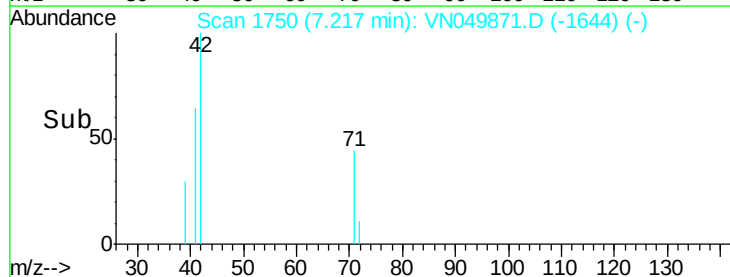
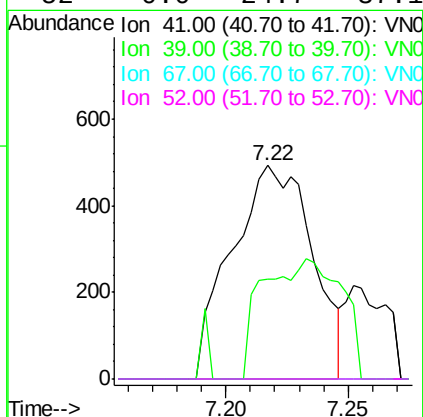
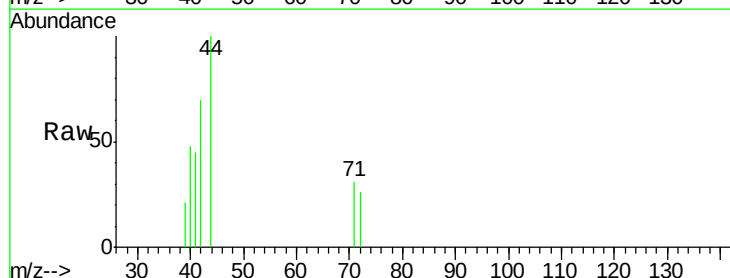
Instrument :
MSVOA_N
ClientSampleId :

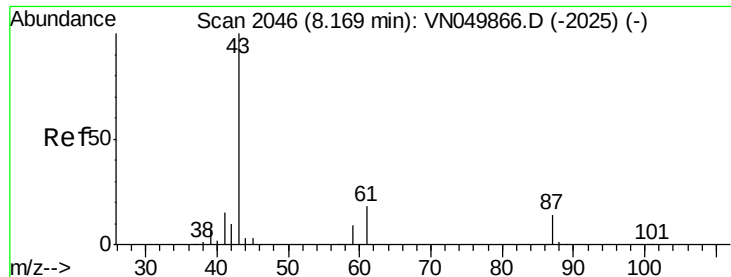
Tot Ion:117 Resp: 55251
Ion Ratio Lower Upper
117 100
119 4.7 77.2 115.8#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.31 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.04 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Tgt Ion: 41 Resp: 1134
Ion Ratio Lower Upper
41 100
39 54.5 45.4 68.2
67 0.0 65.4 98.0#
52 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 19.30 ug/l

RT: 8.17 min Scan# 2046

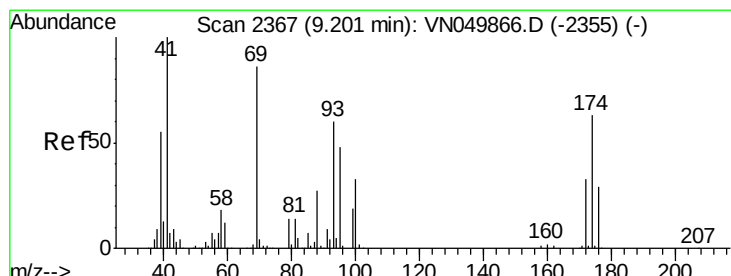
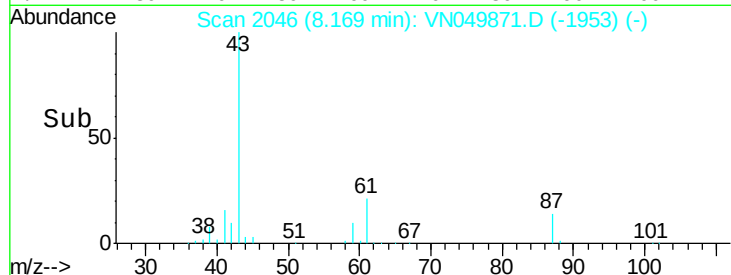
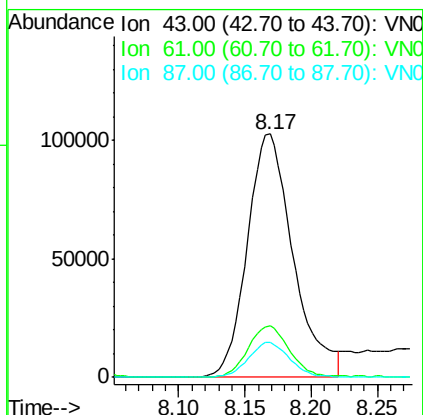
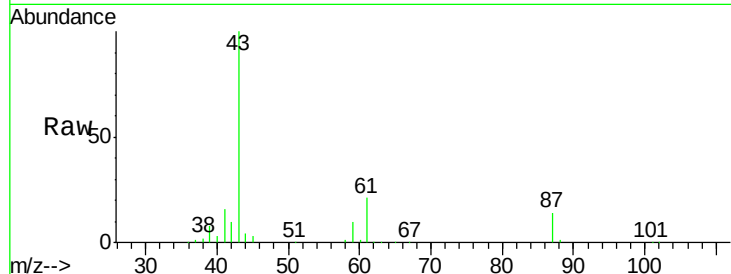
Delta R.T. 0.00 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	43	Resp:	248187
Ion	Ratio	Lower	Upper
43	100		
61	19.2	14.9	22.3
87	13.0	10.0	15.0



#48

Methyl methacrylate

Concen: 1.40 ug/l

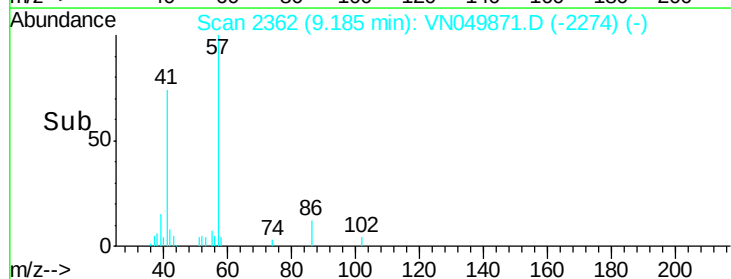
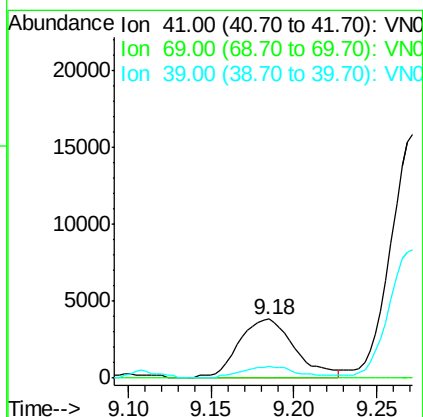
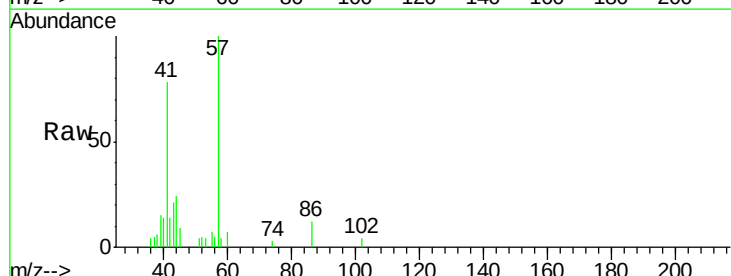
RT: 9.18 min Scan# 2362

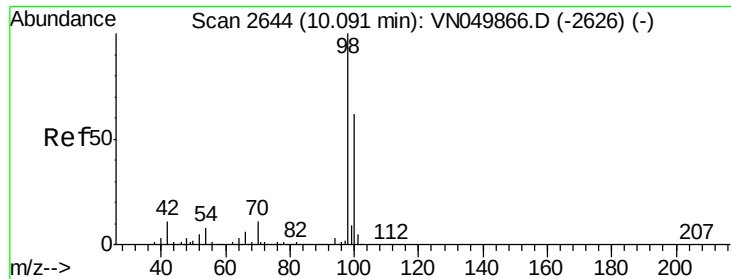
Delta R.T. -0.02 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

Tgt Ion:	41	Resp:	9058
Ion	Ratio	Lower	Upper
41	100		
69	0.0	71.5	107.3#
39	19.6	44.7	67.1#





#50

Toluene-d8

Concen: 44.85 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

Instrument :

MSVOA_N

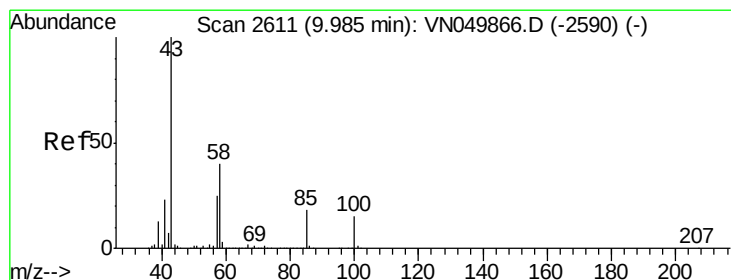
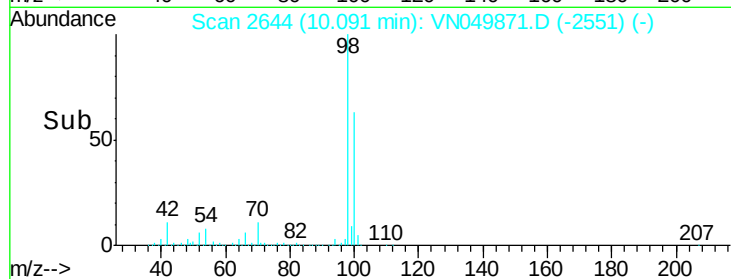
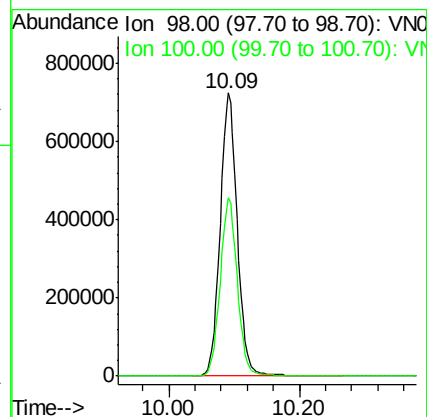
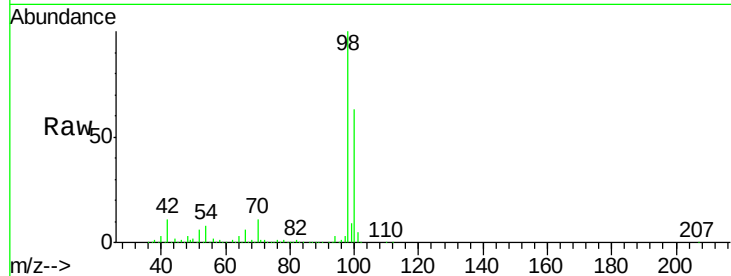
ClientSampled :

Tot Ion: 98 Resp: 1322288

Ion Ratio Lower Upper

98 100

100 63.0 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 0.36 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN049871.D

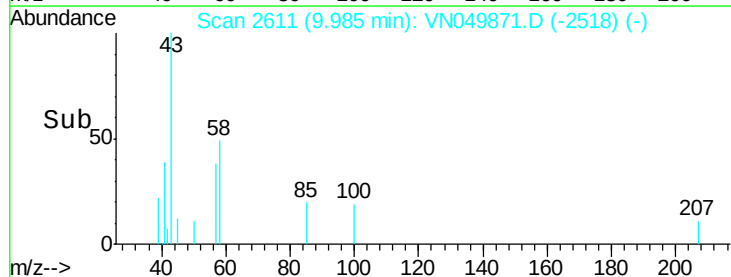
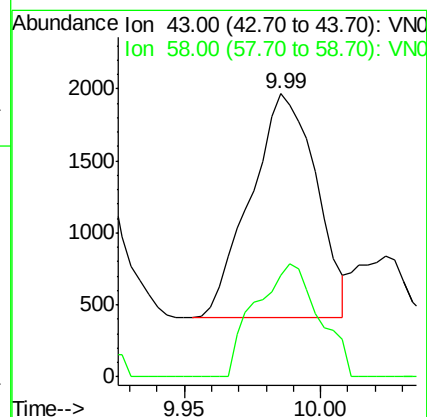
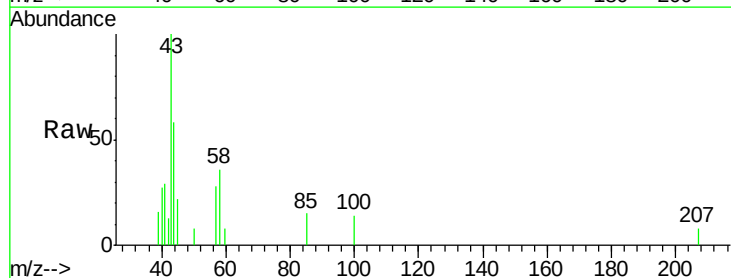
Acq: 18 Jul 2018 14:35

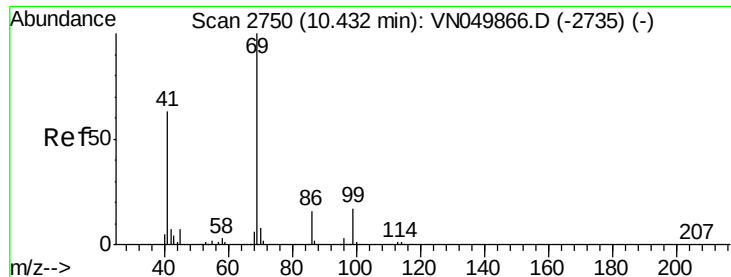
Tgt Ion: 43 Resp: 2613

Ion Ratio Lower Upper

43 100

58 48.8 31.8 47.8#

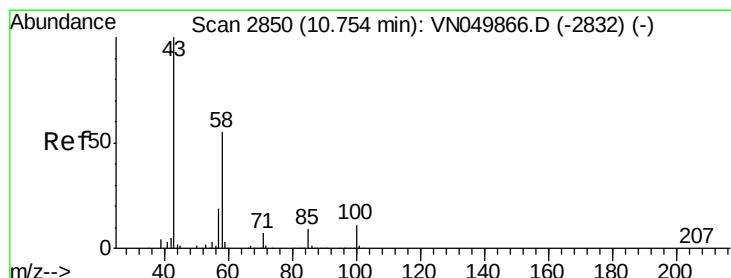
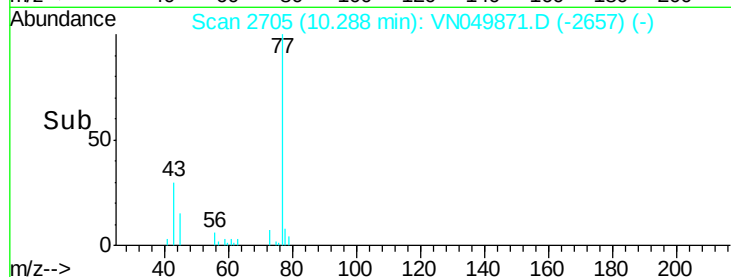
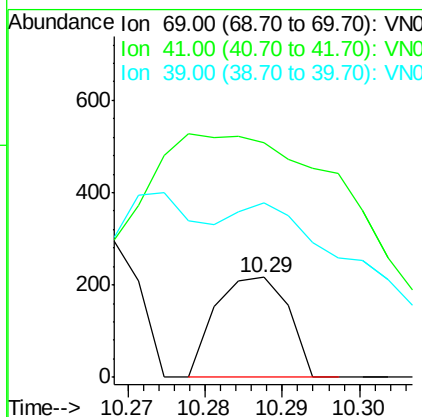
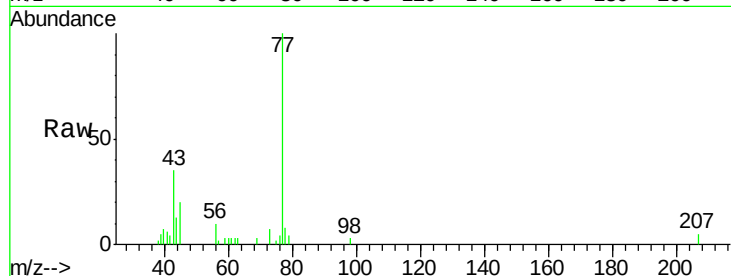




#56
Ethyl methacrylate
Concen: 2.17 ug/l
RT: 10.29 min Scan# 2705
Delta R.T. -0.14 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

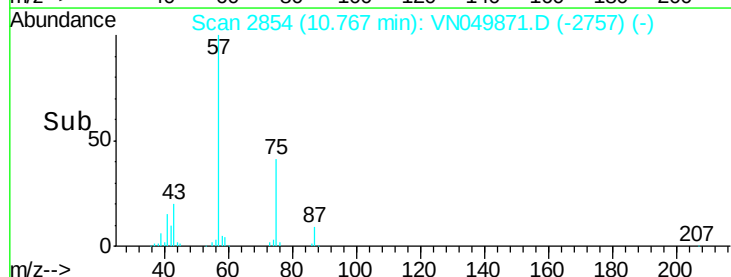
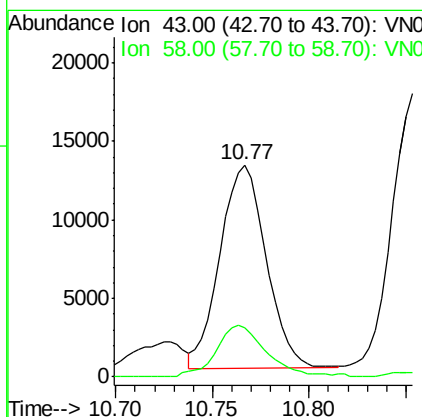
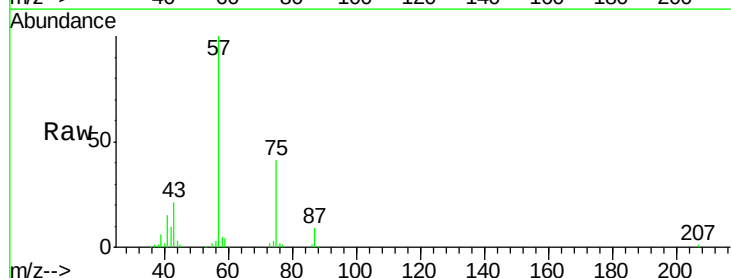
Instrument :
MSVOA_N
ClientSampled :

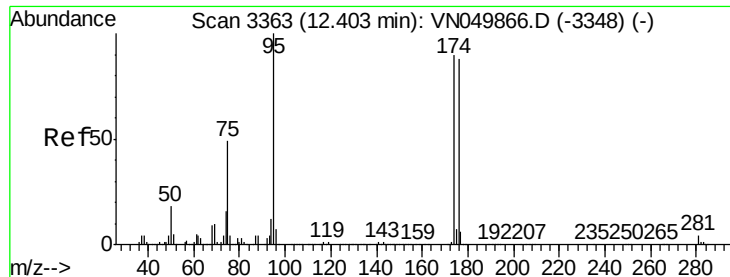
Tot Ion: 69 Resp: 141
Ion Ratio Lower Upper
69 100
41 838.3 51.6 77.4#
39 131.2 25.8 38.8#



#59
2-Hexanone
Concen: 4.46 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Tgt Ion: 43 Resp: 21513
Ion Ratio Lower Upper
43 100
58 27.9 27.8 83.4





#62

4-Bromofluorobenzene

Concen: 35.51 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

Instrument :

MSVOA_N

ClientSampleId :

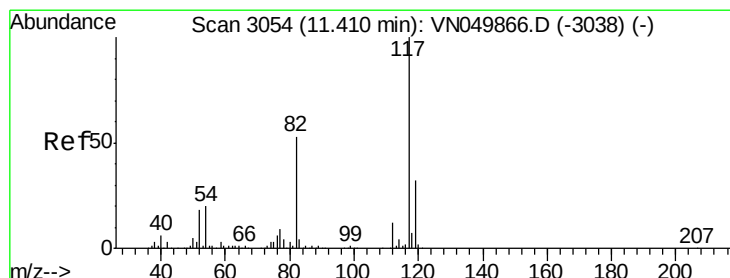
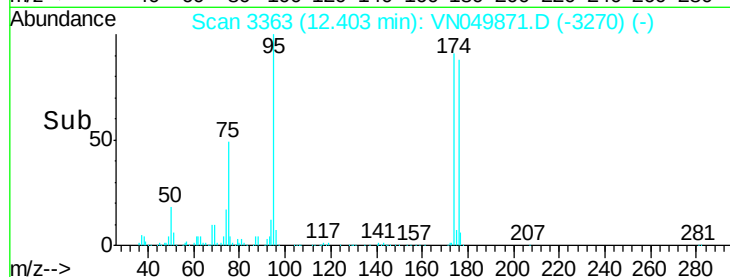
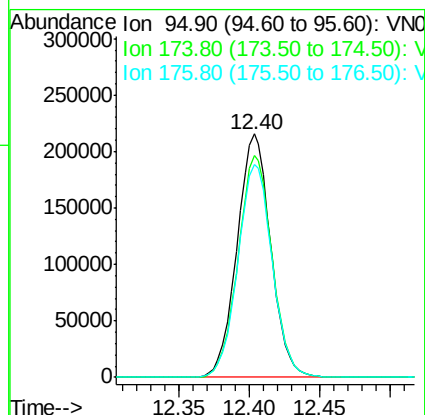
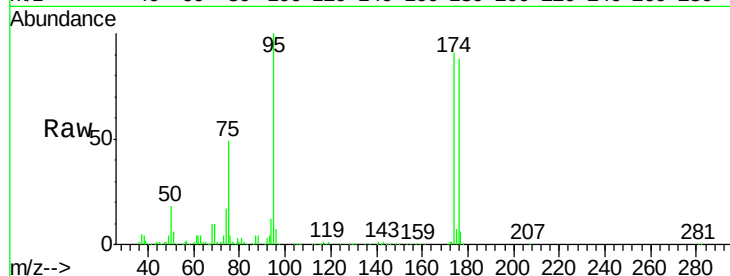
Tot Ion: 95 Resp: 360543

Ion Ratio Lower Upper

95 100

174 92.0 0.0 179.6

176 89.0 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: VN049871.D

Acq: 18 Jul 2018 14:35

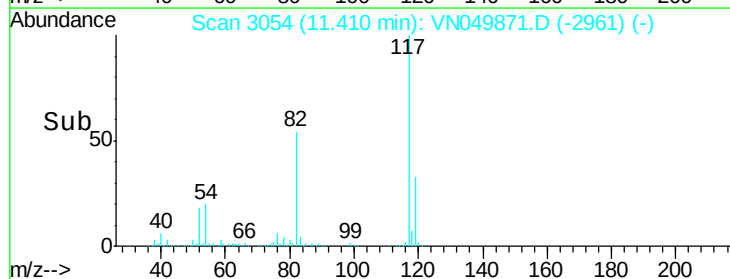
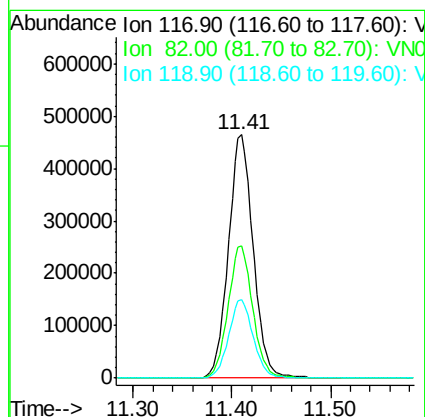
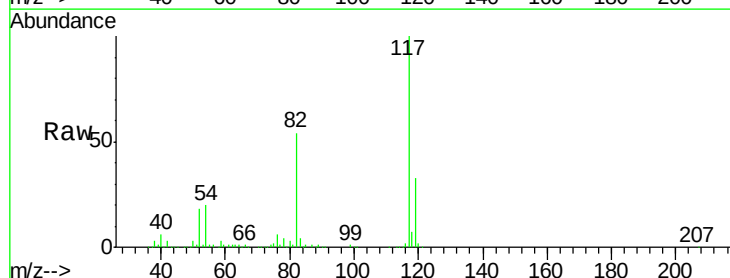
Tgt Ion: 117 Resp: 817940

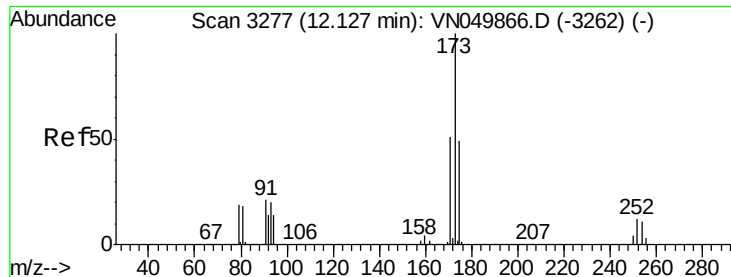
Ion Ratio Lower Upper

117 100

82 54.4 41.9 62.9

119 32.5 25.4 38.2

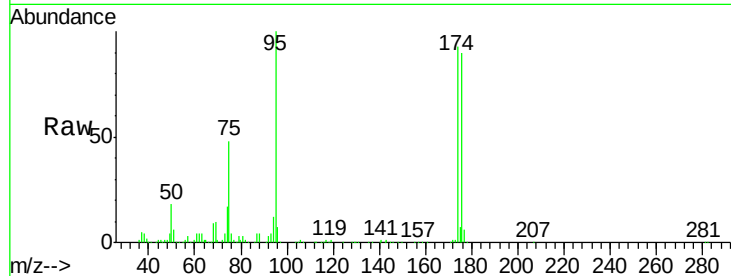




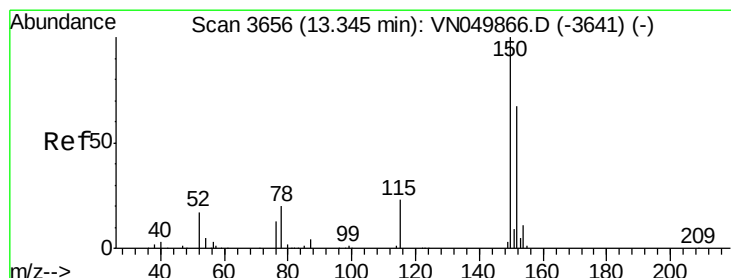
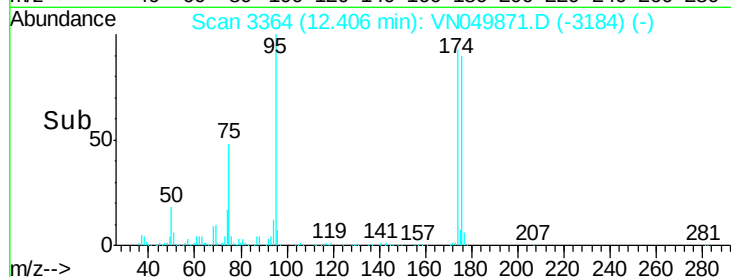
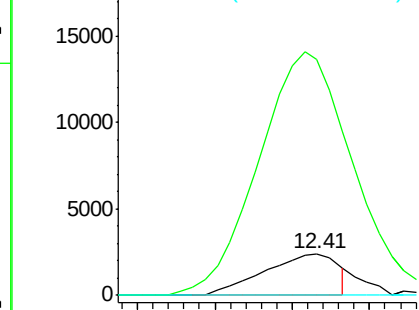
#71
Bromoform
Concen: 0.56 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 3208
Ion Ratio Lower Upper
173 100
175 613.8 24.6 73.8#
254 0.0 0.2 0.2#

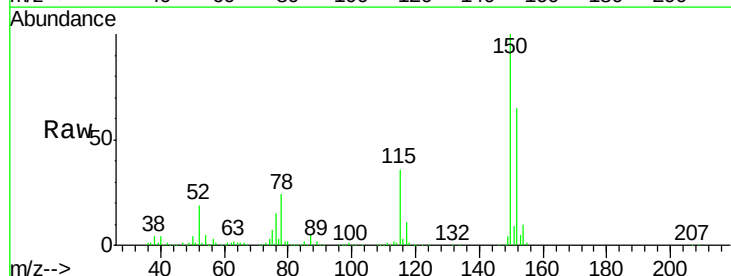


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

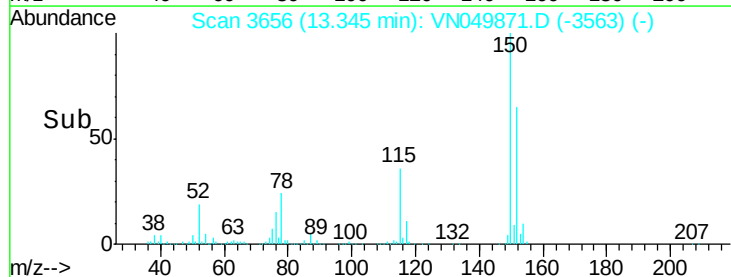
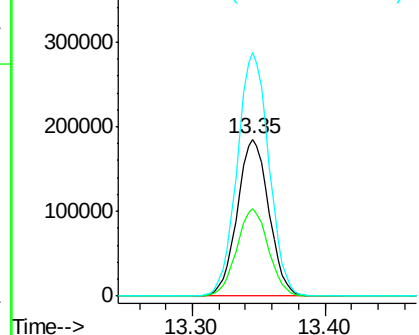


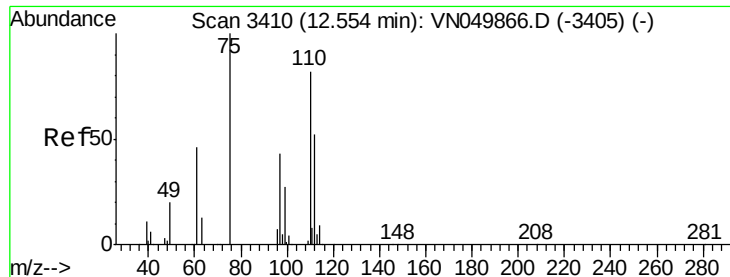
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049871.D
Acq: 18 Jul 2018 14:35

Tgt Ion:152 Resp: 305980
Ion Ratio Lower Upper
152 100
115 55.9 28.1 84.2
150 156.0 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: 31.13 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

Instrument :

MSVOA_N

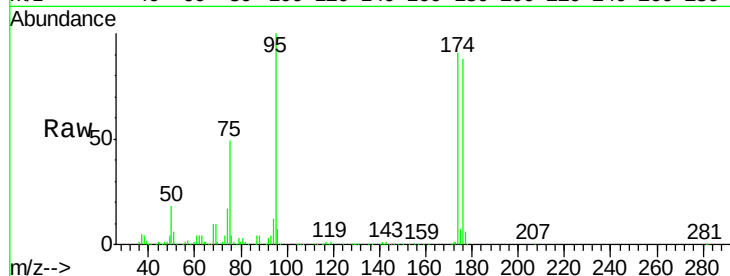
ClientSampleId :

Tot Ion: 75 Resp: 178661

Ion Ratio Lower Upper

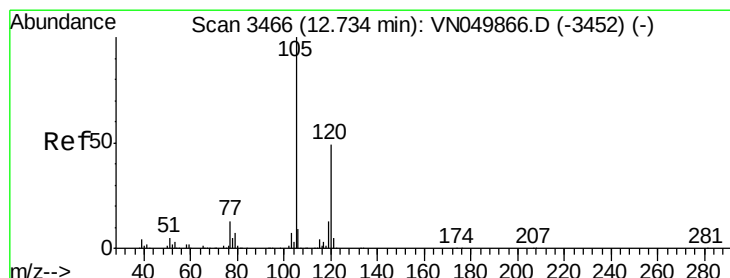
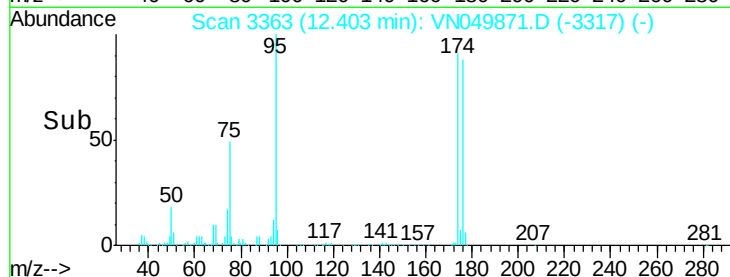
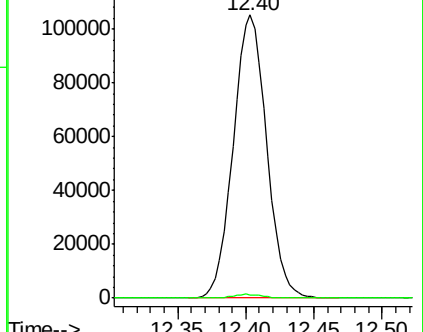
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049871.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049871.D (-3317) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049871.D

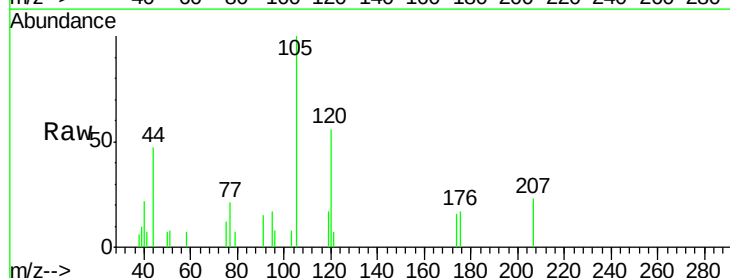
Acq: 18 Jul 2018 14:35

Tgt Ion: 105 Resp: 3898

Ion Ratio Lower Upper

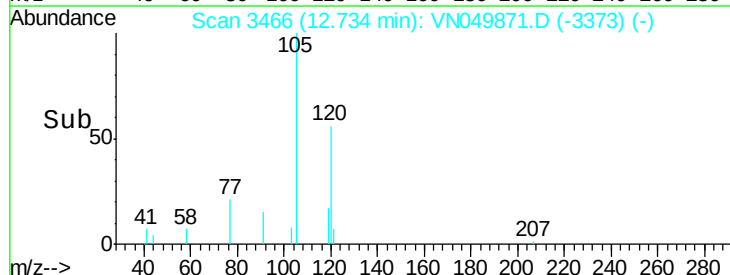
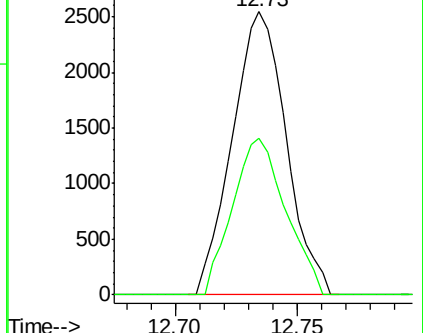
105 100

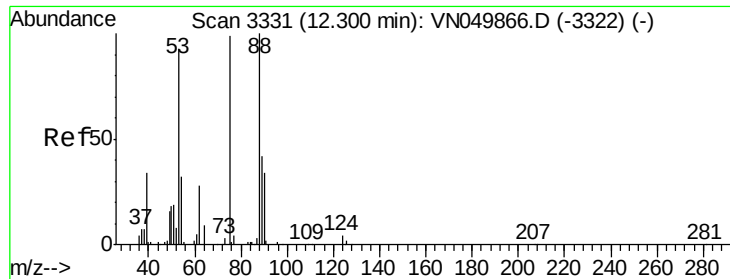
120 54.6 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049871.D (-3373) (-)

Ion 120.00 (119.70 to 120.70): VN049871.D (-3373) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 97.33 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

Instrument :

MSVOA_N

ClientSampled :

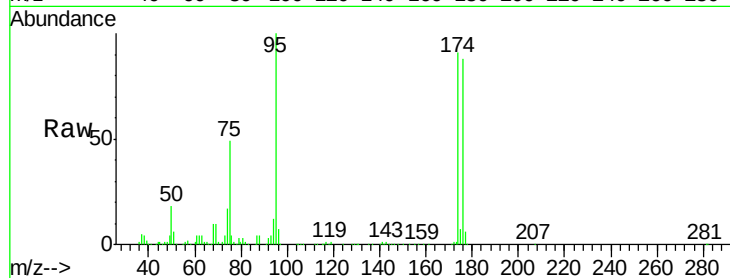
Tot Ion: 75 Resp: 178661

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

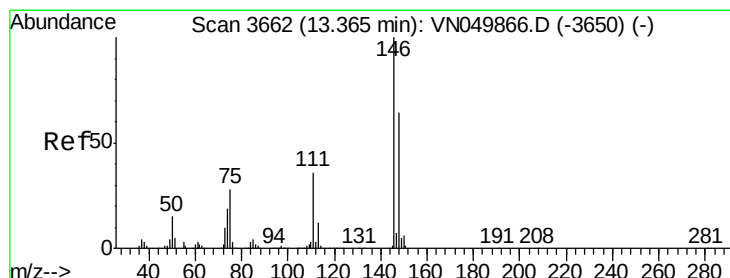
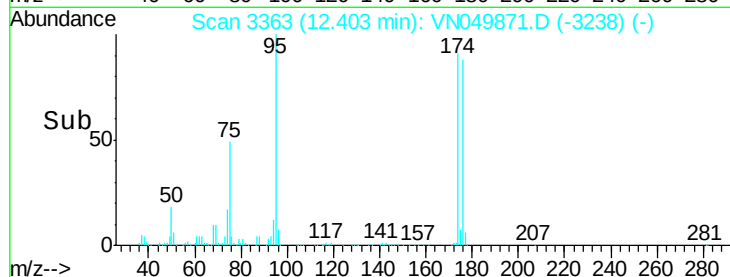
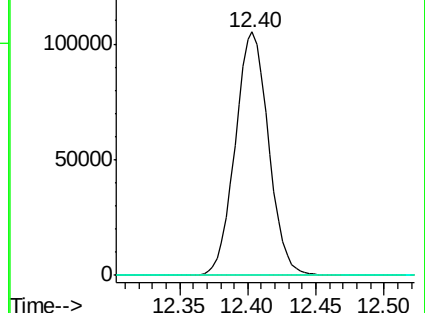
89 0.0 35.9 53.9#



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



#88

1,4-Dichlorobenzene

Concen: 0.21 ug/l

RT: 13.37 min Scan# 3663

Delta R.T. 0.00 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

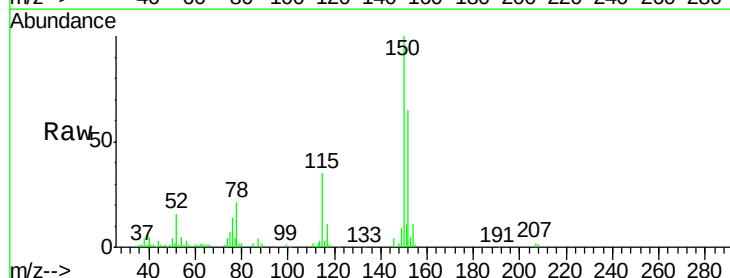
Tgt Ion: 146 Resp: 2332

Ion Ratio Lower Upper

146 100

111 190.8 18.9 56.5#

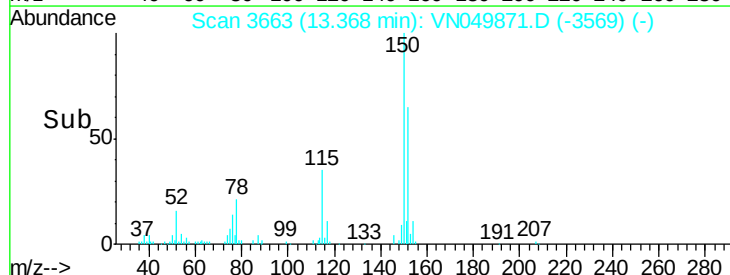
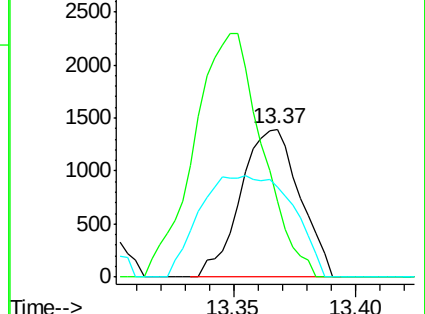
148 108.1 32.1 96.3#

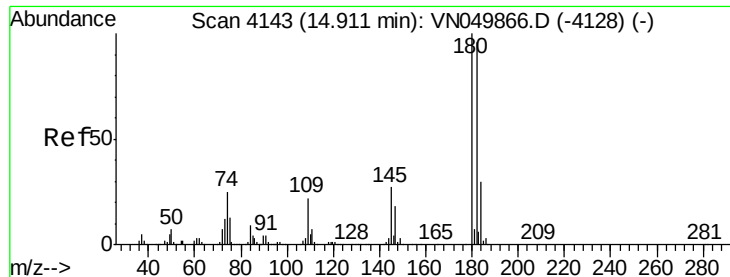


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

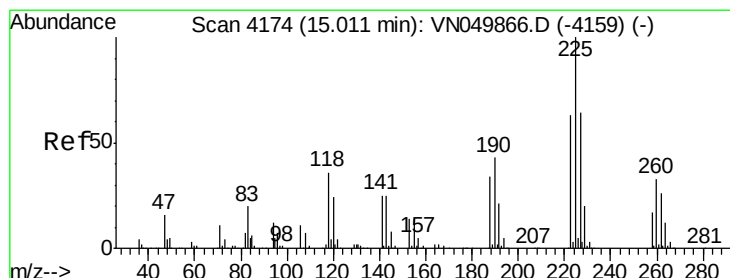
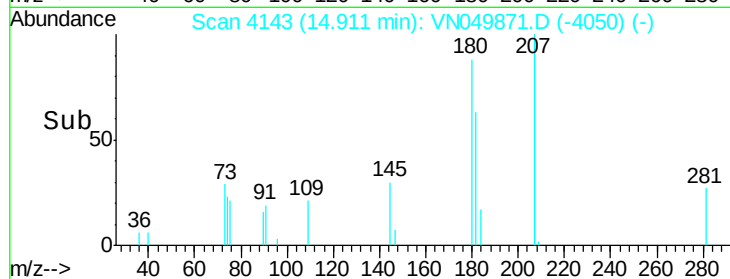
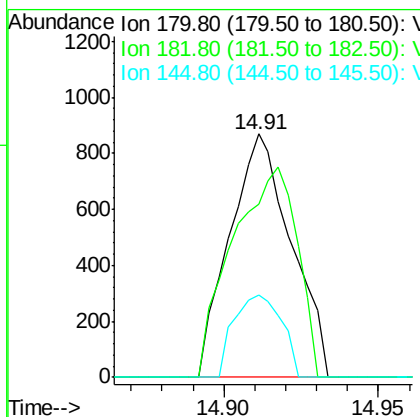
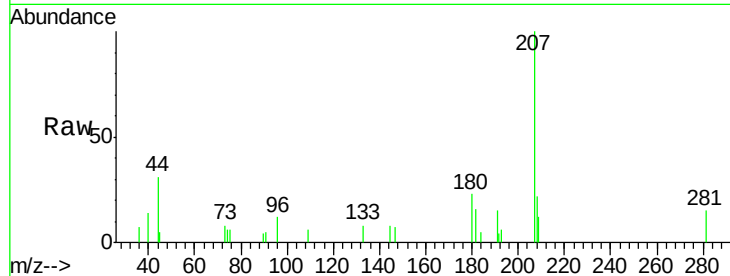




#93
 1,2,4-Trichlorobenzene
 Concen: 3.66 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049871.D
 Acq: 18 Jul 2018 14:35

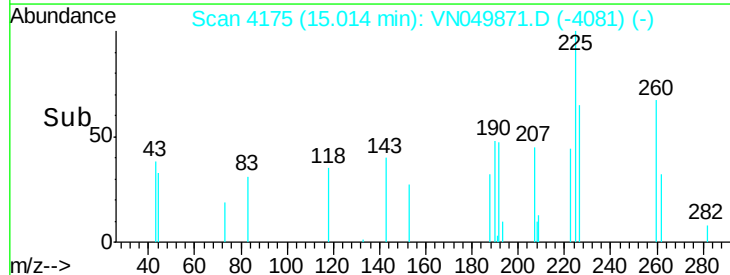
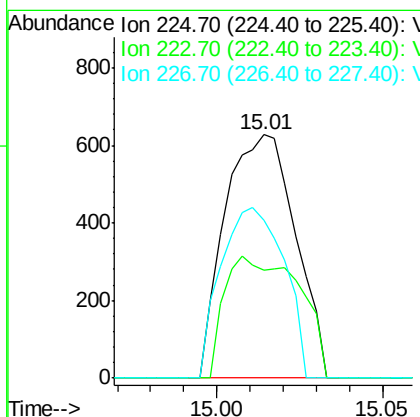
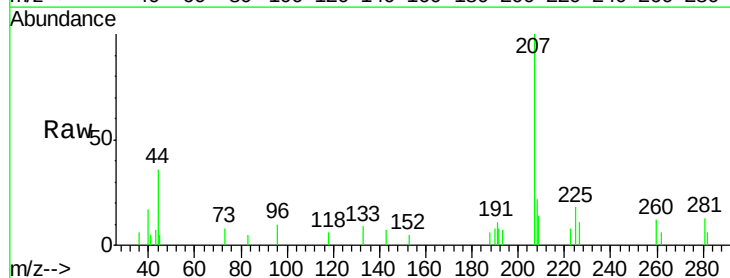
Instrument :
 MSVOA_N
 ClientSampleId :

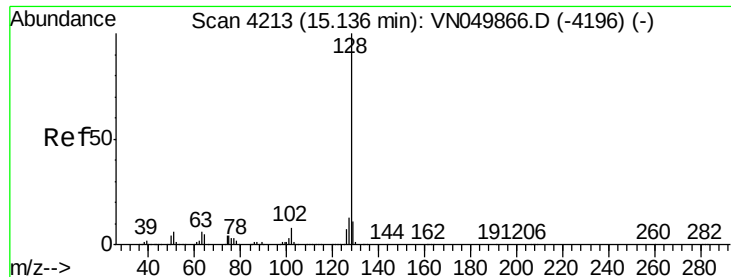
Tot Ion:180 Resp: 1205
 Ion Ratio Lower Upper
 180 100
 182 90.8 47.3 141.9
 145 26.2 14.4 43.0



#94
 Hexachlorobutadiene
 Concen: 0.26 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049871.D
 Acq: 18 Jul 2018 14:35

Tgt Ion:225 Resp: 928
 Ion Ratio Lower Upper
 225 100
 223 52.9 30.9 92.7
 227 62.6 31.8 95.4





#95

Naphthalene

Concen: 4.67 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

Instrument :

MSVOA_N

ClientSampleId :

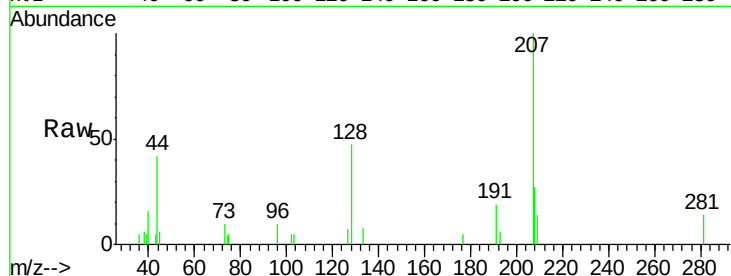
Tot Ion:128 Resp: 2805

Ion Ratio Lower Upper

128 100

127 10.7 10.4 15.6

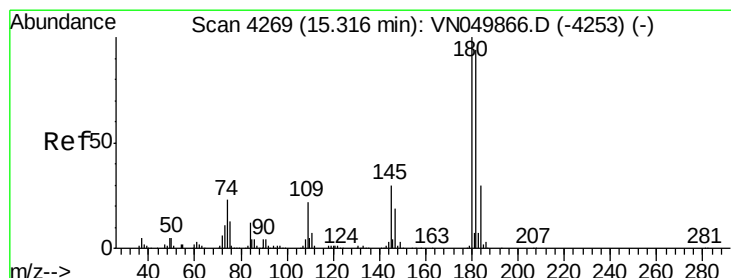
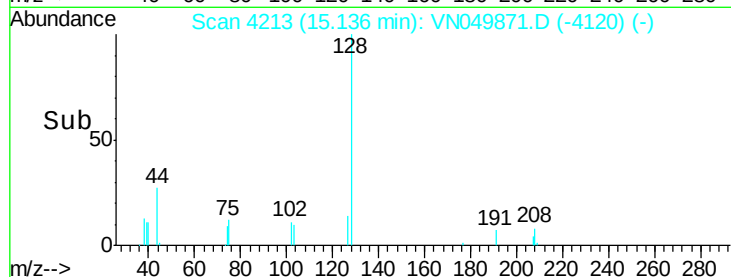
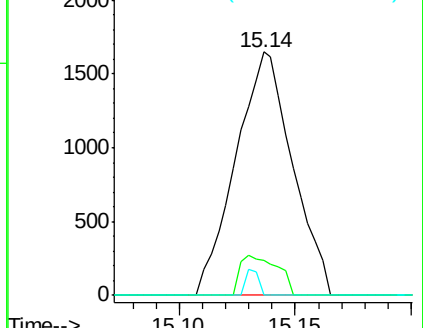
129 2.3 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.25 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN049871.D

Acq: 18 Jul 2018 14:35

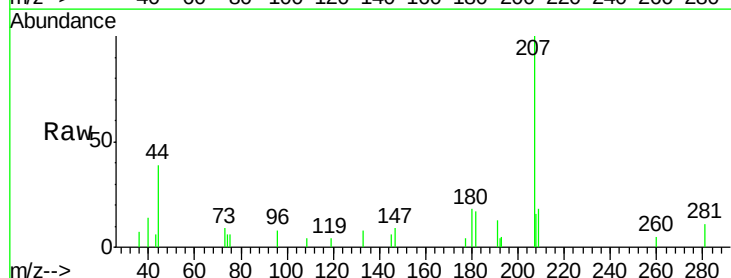
Tgt Ion:180 Resp: 1331

Ion Ratio Lower Upper

180 100

182 85.0 47.4 142.2

145 17.8 15.2 45.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

