

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049791.D
 Acq On : 13 Jul 2018 12:40
 Operator : MD\SY
 Sample : J3762-09 MDL 0.2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Quant Time: Jul 13 23:45:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1102201	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1759071	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1509826	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	580923	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	736294	57.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.86%	
35) Dibromofluoromethane	7.59	113	698656	52.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.38%	
50) Toluene-d8	10.09	98	2098402	46.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.46%	
62) 4-Bromofluorobenzene	12.40	95	629709	38.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	2752	Below Cal		92
3) Chloromethane	2.06	50	5153	Below Cal		93
4) Vinyl Chloride	2.18	62	3946	Below Cal		96
5) Bromomethane	2.57	94	6130	Below Cal		97
7) Trichlorofluoromethane	3.02	101	5167	0.25 ug/l		95
8) Diethyl Ether	3.42	74	2074	0.28 ug/l		76
12) 1,1-Dichloroethene	3.73	96	2864	0.24 ug/l	#	90
13) Acrolein	3.61	56	1319	1.75 ug/l		88
16) Acetone	3.83	43	5713	Below Cal		91
17) Carbon Disulfide	4.06	76	11683	Below Cal		99
18) Methyl Acetate	4.34	43	11722	0.36 ug/l		92
20) Methylene Chloride	4.55	84	6207	Below Cal	#	94
21) trans-1,2-Dichloroethene	5.05	96	3387	0.26 ug/l	#	81
23) Vinyl Acetate	5.91	43	17845	0.67 ug/l	#	93
25) 2-Butanone	6.85	43	5426	1.09 ug/l	#	88
27) cis-1,2-Dichloroethene	6.84	96	3271	0.22 ug/l	#	15
29) Tetrahydrofuran	7.23	42	3811	1.21 ug/l	#	89
30) Chloroform	7.38	83	5420	0.21 ug/l		96
31) Cyclohexane	7.67	56	23380	0.92 ug/l	#	1
36) 1,1-Dichloropropene	7.79	75	4898	0.24 ug/l	#	65
38) Carbon Tetrachloride	7.67	117	98050	4.63 ug/l	#	16
42) 1,2-Dichloroethane	8.13	62	4251	0.21 ug/l		92
44) Trichloroethene	8.83	130	3521	0.22 ug/l		66
45) 1,2-Dichloropropane	9.12	63	3291	0.20 ug/l		92
46) Dibromomethane	9.21	93	2097	0.22 ug/l	#	77
48) Methyl methacrylate	9.20	41	2292	0.21 ug/l		86
49) 1,4-Dioxane	9.19	88	268	1.90 ug/l	#	8
51) 4-Methyl-2-Pentanone	9.99	43	8825	0.75 ug/l		92
52) Toluene	10.16	92	7819	0.22 ug/l		92
53) t-1,3-Dichloropropene	10.39	75	4319	0.21 ug/l		90
55) 1,1,2-Trichloroethane	10.56	97	4834	Below Cal	#	66
58) 2-Chloroethyl Vinyl ether	9.70	63	5603	0.71 ug/l	#	75
59) 2-Hexanone	10.76	43	6344	0.81 ug/l		99
64) Tetrachloroethene	10.63	164	3288	0.24 ug/l	#	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

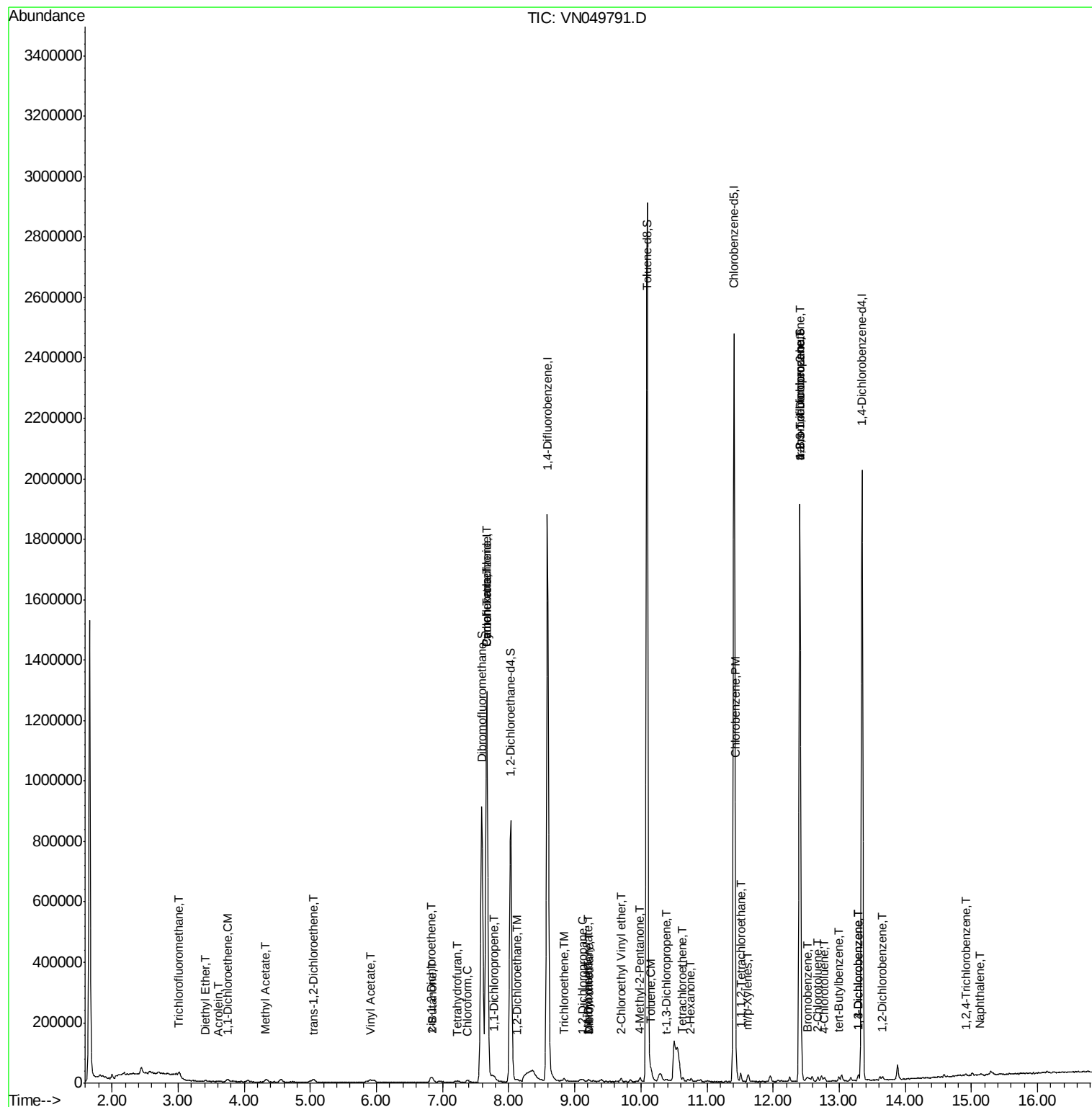
65) Chlorobenzene	11.44	112	8322	0.21	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.52	131	3284	0.22	ug/l #	65
68) m/p-Xylenes	11.62	106	8308	0.34	ug/l	84
75) 1,1,2,2-Tetrachloroethane	12.50	83	3024	Below	Cal #	96
76) 1,2,3-Trichloropropane	12.40	75	312009	30.23	ug/l #	100
77) Bromobenzene	12.53	156	3355	0.26	ug/l	85
79) 2-Chlorotoluene	12.68	91	7328	0.22	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	312009	97.63	ug/l #	13
82) 4-Chlorotoluene	12.77	91	6638	0.20	ug/l	97
83) tert-Butylbenzene	12.99	119	6907	0.20	ug/l	95
87) 1,3-Dichlorobenzene	13.29	146	4531	0.20	ug/l	93
88) 1,4-Dichlorobenzene	13.29	146	4531	0.21	ug/l	94
90) Hexachloroethane	13.88	117	2225	Below	Cal	86
91) 1,2-Dichlorobenzene	13.65	146	4786	0.22	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.28	75	574	Below	Cal #	10
93) 1,2,4-Trichlorobenzene	14.91	180	2124	3.06	ug/l	92
94) Hexachlorobutadiene	15.02	225	2026	Below	Cal	76
95) Naphthalene	15.13	128	4062	4.17	ug/l #	92

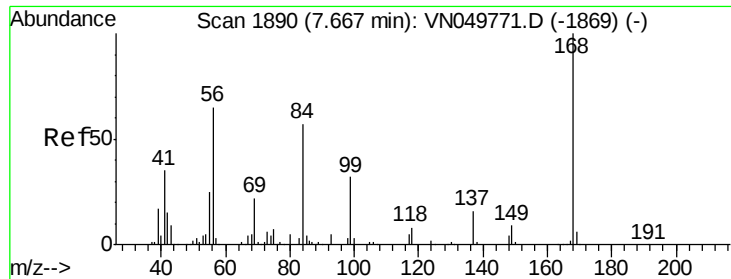
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

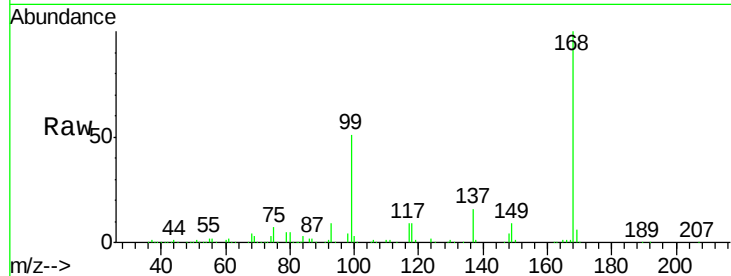
MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 1102201

Ion Ratio Lower Upper

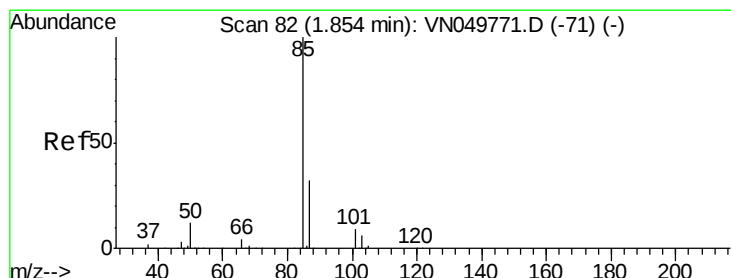
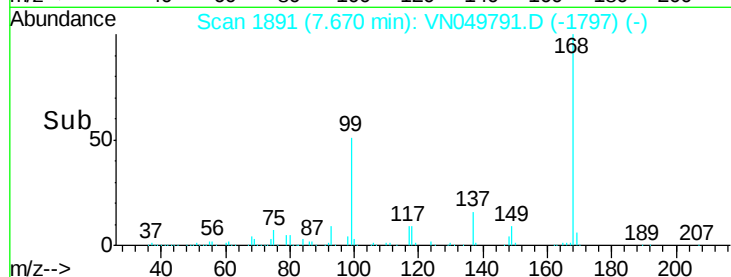
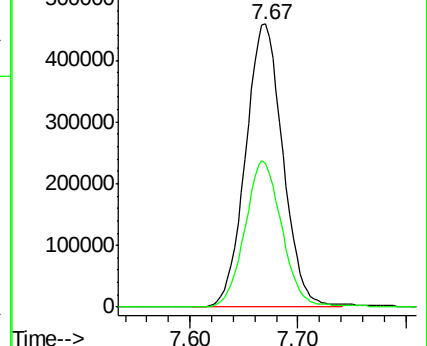
168 100

99 50.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049791.D

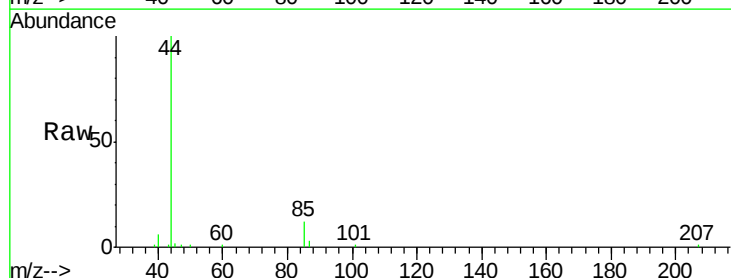
Acq: 13 Jul 2018 12:40

Tgt Ion: 85 Resp: 2752

Ion Ratio Lower Upper

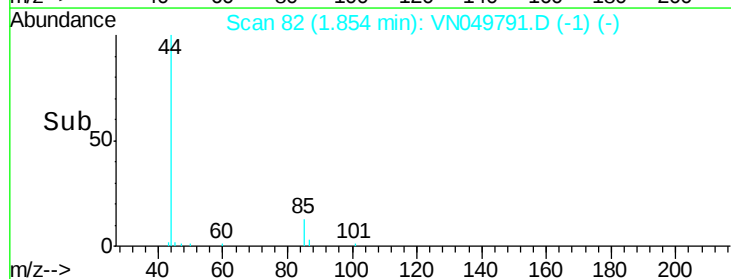
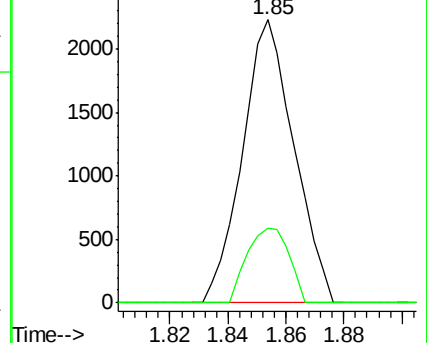
85 100

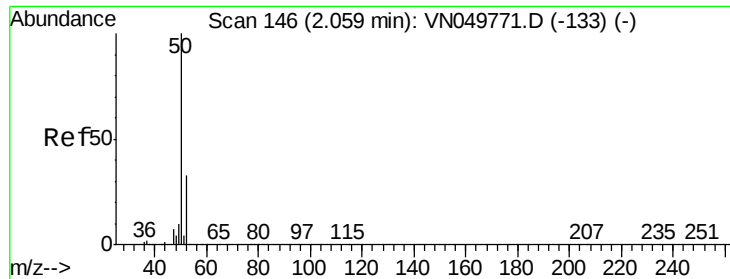
87 26.3 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 147

Delta R.T. 0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

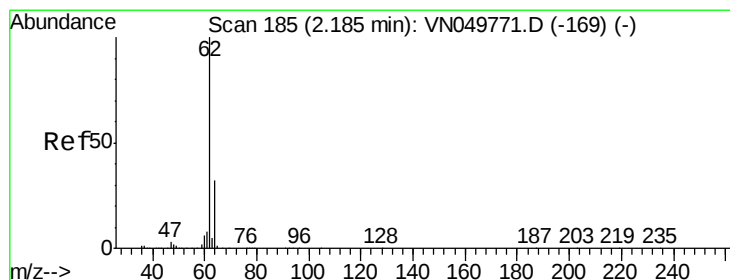
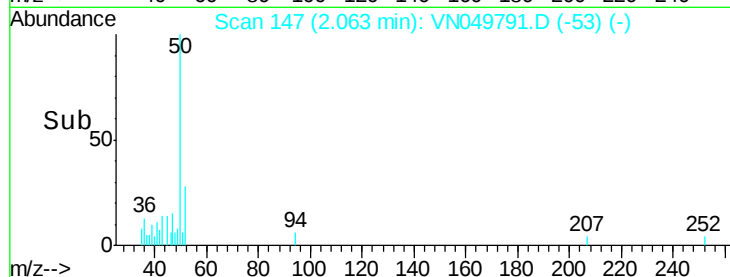
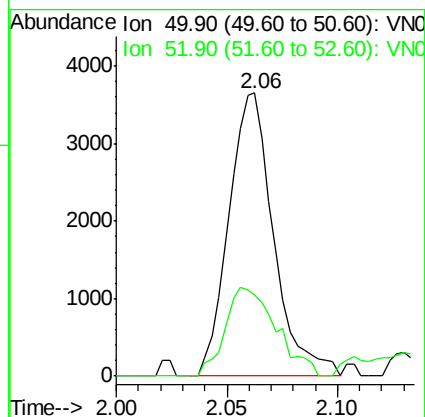
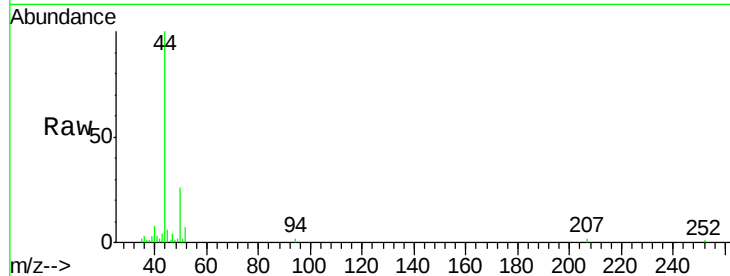
MDL-WATER-03-QT3-2018

Tot Ion: 50 Resp: 5153

Ion Ratio Lower Upper

50 100

52 28.5 26.1 39.1



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049791.D

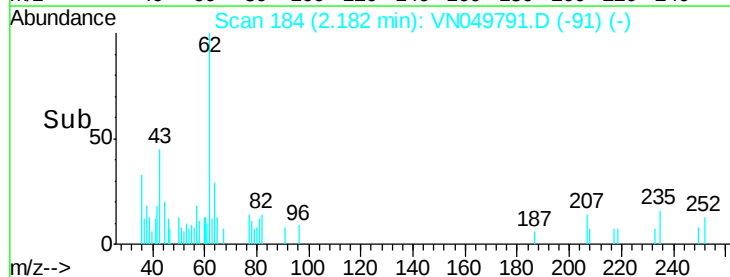
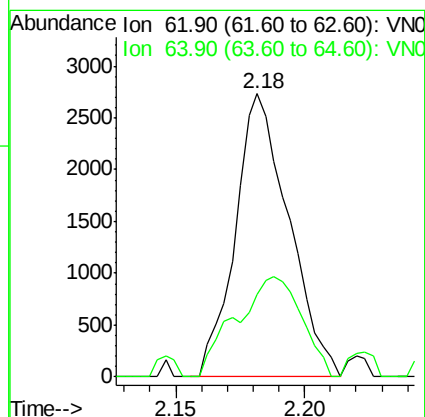
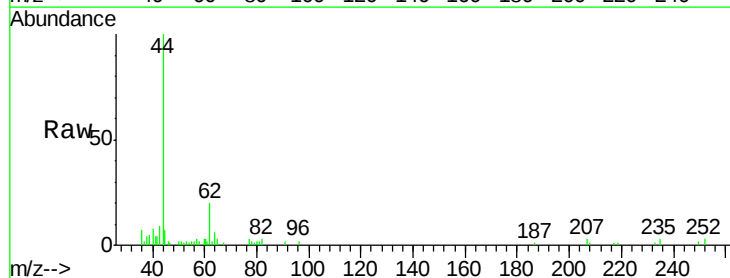
Acq: 13 Jul 2018 12:40

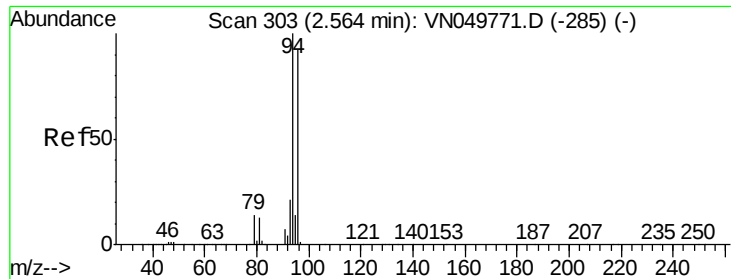
Tgt Ion: 62 Resp: 3946

Ion Ratio Lower Upper

62 100

64 29.3 25.4 38.0





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

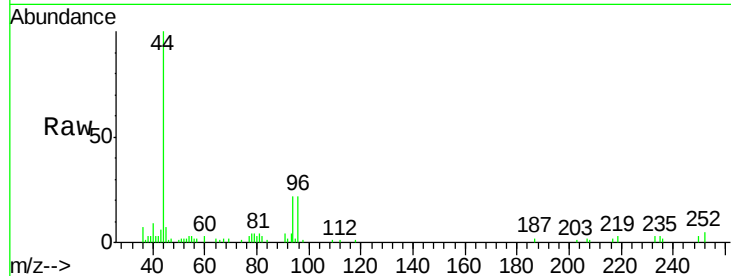
MDL-WATER-03-QT3-2018

Tot Ion: 94 Resp: 6130

Ion Ratio Lower Upper

94 100

96 91.4 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN049791.D (-285) (-)

Ion 95.90 (95.60 to 96.60): VN049791.D (-285) (-)

2.57

3000

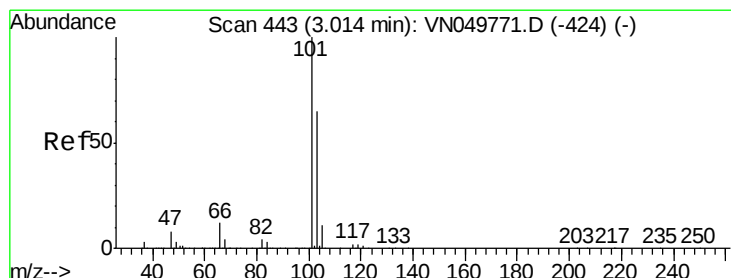
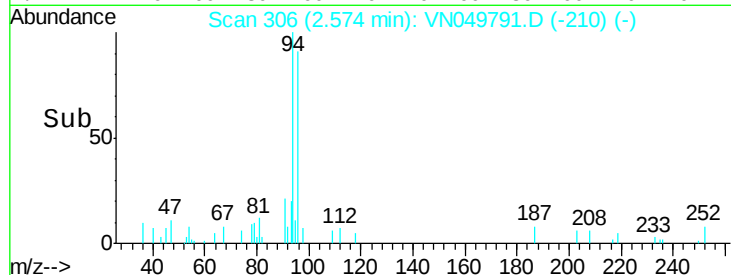
2000

1000

0

Time-->

2.50 2.55 2.60 2.65



#7

Trichlorofluoromethane

Concen: 0.25 ug/l

RT: 3.02 min Scan# 444

Delta R.T. 0.00 min

Lab File: VN049791.D

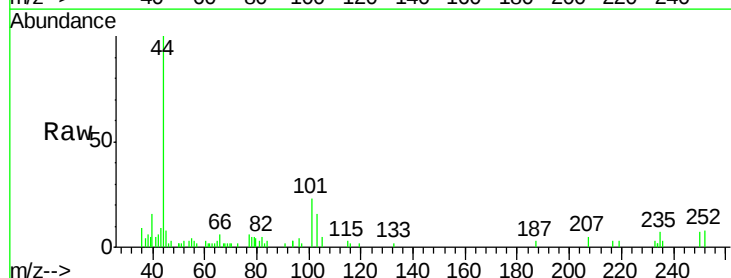
Acq: 13 Jul 2018 12:40

Tgt Ion: 101 Resp: 5167

Ion Ratio Lower Upper

101 100

103 70.2 52.8 79.2



Abundance Ion 100.90 (100.60 to 101.60): VN049791.D (-424) (-)

Ion 102.80 (102.50 to 103.50): VN049791.D (-424) (-)

3.02

2500

2000

1500

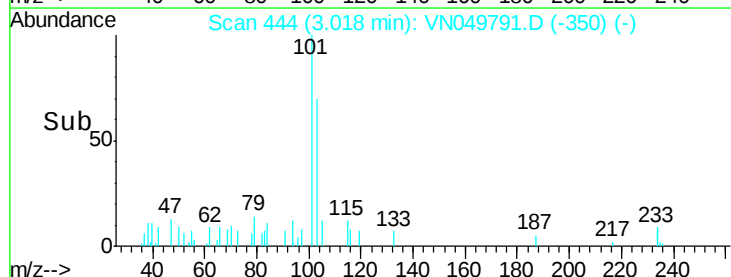
1000

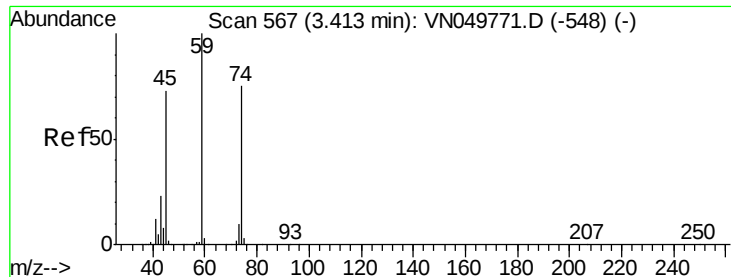
500

0

Time-->

2.95 3.00 3.05





#8

Diethyl Ether

Concen: 0.28 ug/l

RT: 3.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

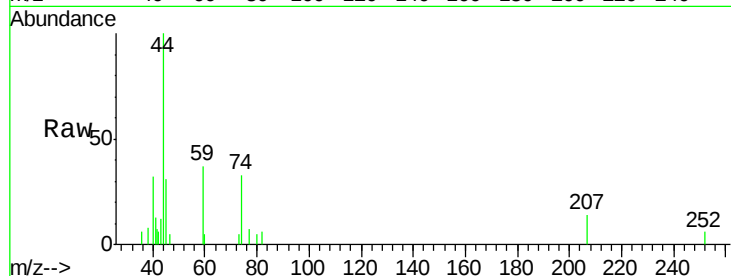
MDL-WATER-03-QT3-2018

Tot Ion: 74 Resp: 2074

Ion Ratio Lower Upper

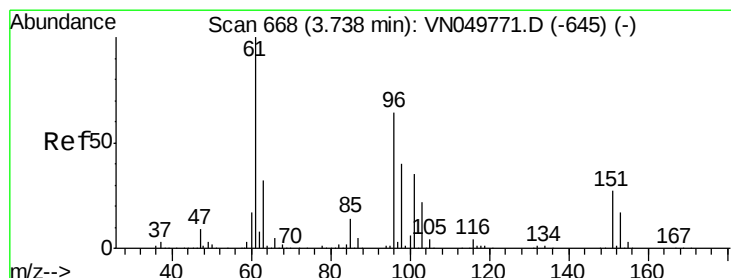
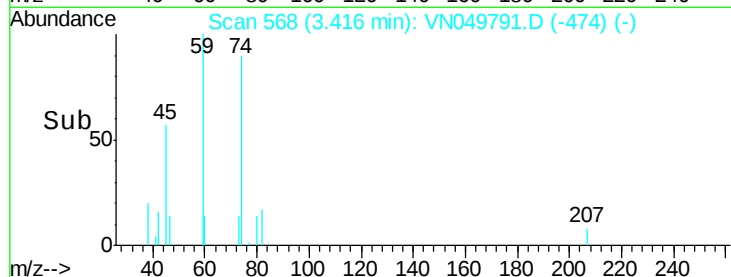
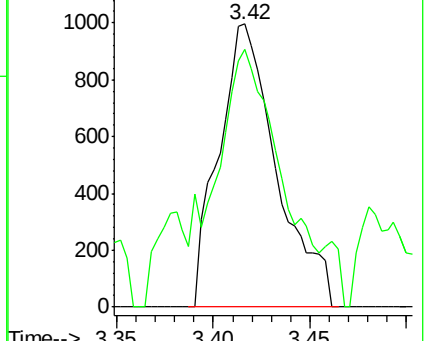
74 100

45 73.5 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#12

1,1-Dichloroethene

Concen: 0.24 ug/l

RT: 3.73 min Scan# 666

Delta R.T. -0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

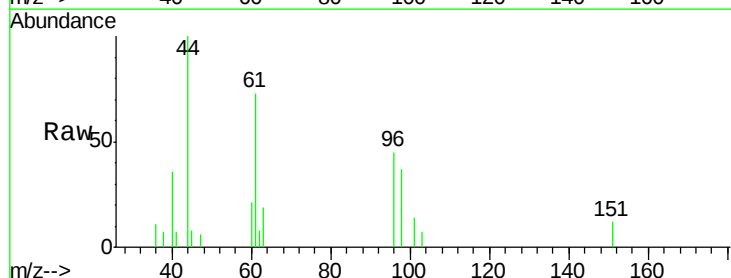
Tgt Ion: 96 Resp: 2864

Ion Ratio Lower Upper

96 100

61 163.0 126.5 189.7

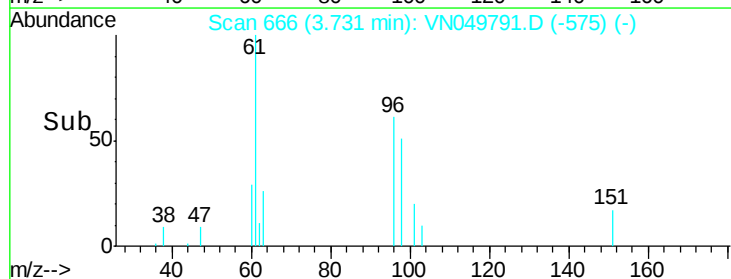
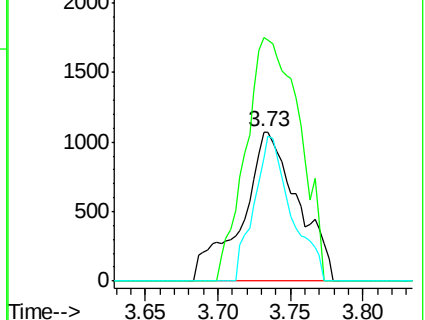
98 82.6 51.0 76.6#

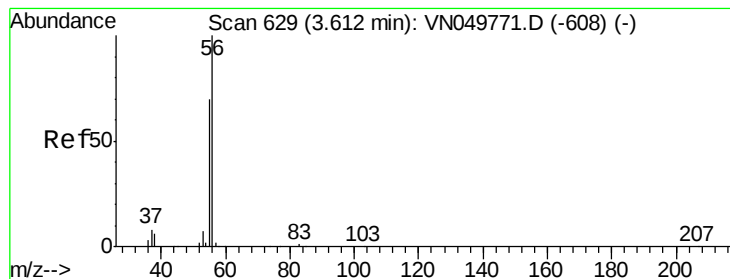


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#13

Acrolein

Concen: 1.75 ua/l

RT: 3.61 min Scan# 629

Delta R.T. -0.00 min

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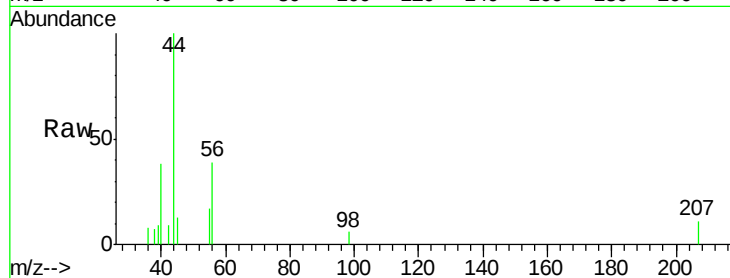
MDL-WATER-03-QT3-2018

Tot Ion: 56 Resp: 1319

Ion Ratio Lower Upper

56 100

55 60.0 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VN049791.D (-608) (-)

Ion 55.00 (54.70 to 55.70): VN049791.D (-608) (-)

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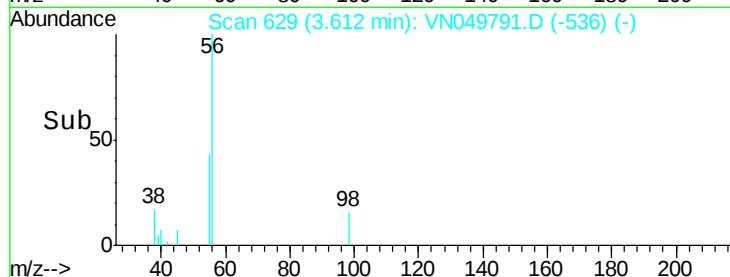
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3.61

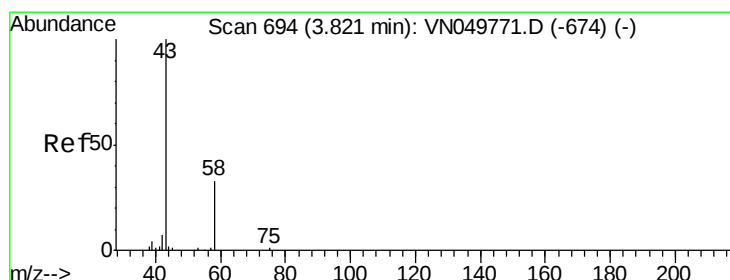
3.61

3.61

3.61



Time-->



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049791.D

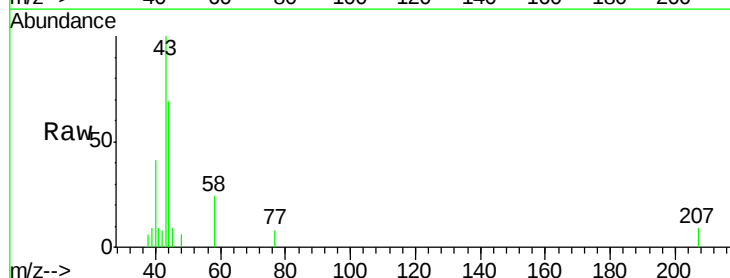
Acq: 13 Jul 2018 12:40

Tgt Ion: 43 Resp: 5713

Ion Ratio Lower Upper

43 100

58 27.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049791.D (-674) (-)

Ion 58.00 (57.70 to 58.70): VN049791.D (-674) (-)

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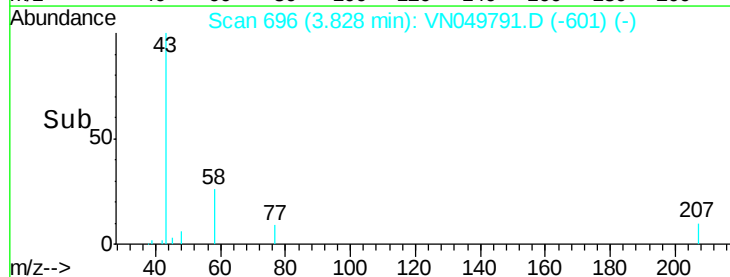
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3.83

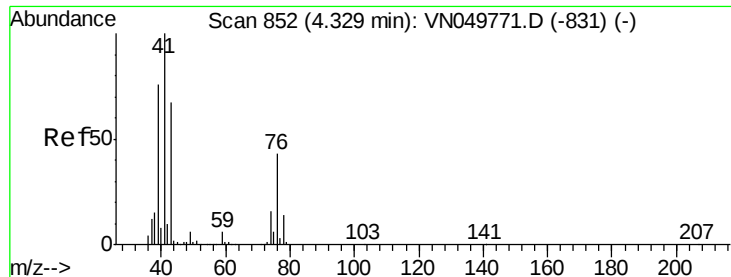
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3.83

3.83



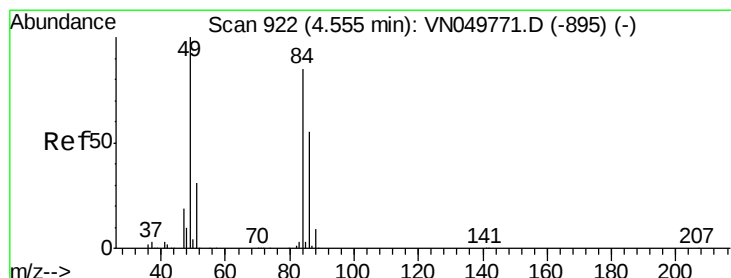
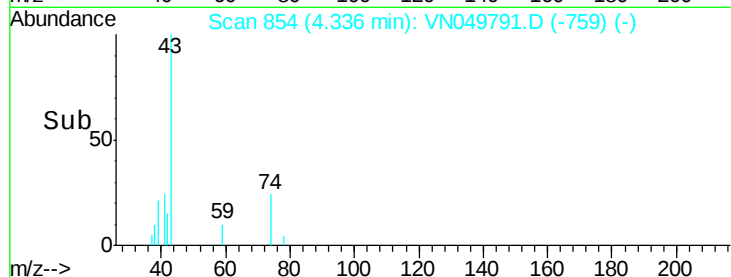
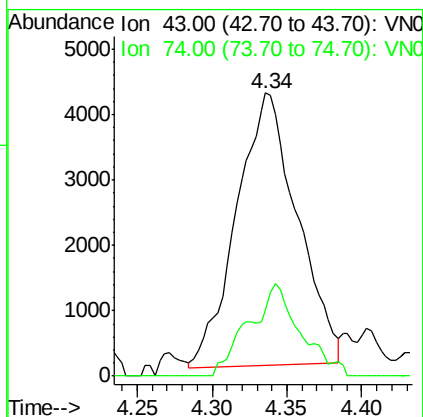
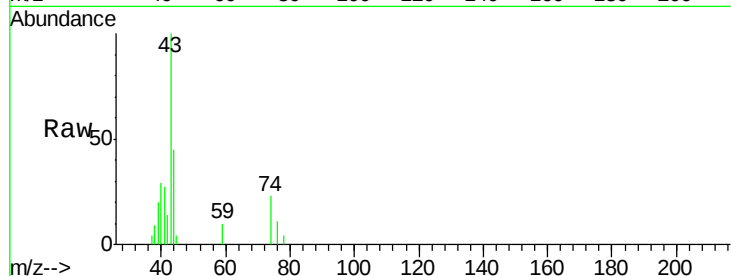
Time-->



#18
Methvl Acetate
Concen: 0.36 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

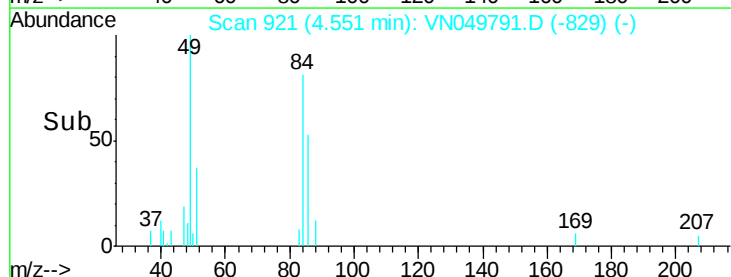
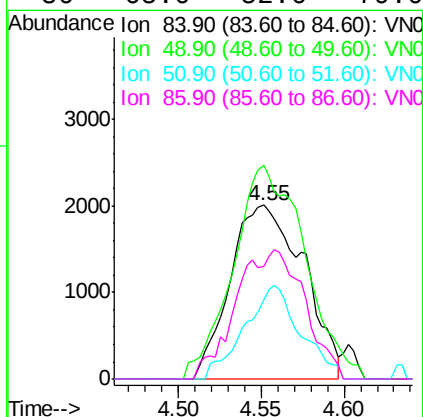
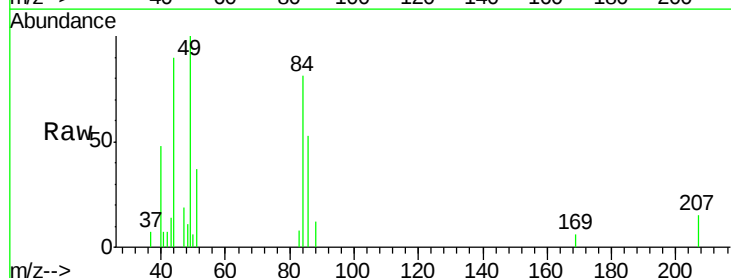
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

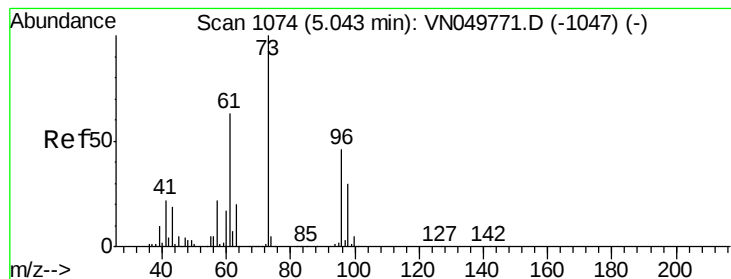
Tot Ion: 43 Resp: 11722
Ion Ratio Lower Upper
43 100
74 28.9 19.8 29.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

Tgt Ion: 84 Resp: 6207
Ion Ratio Lower Upper
84 100
49 113.2 95.4 143.2
51 45.9 28.4 42.6#
86 65.0 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 0.26 ug/l

RT: 5.05 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

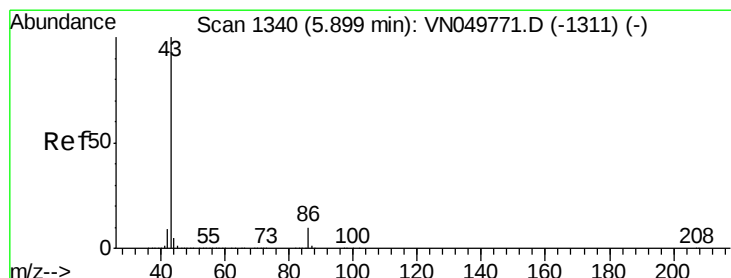
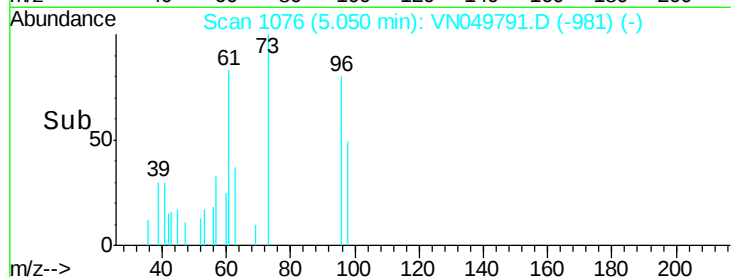
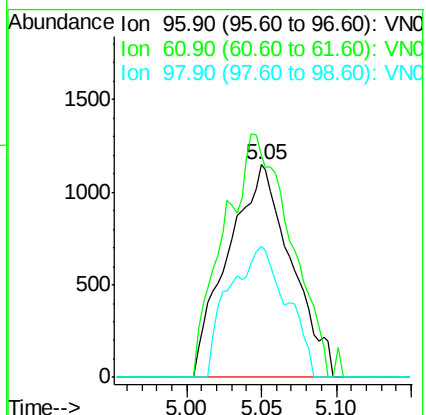
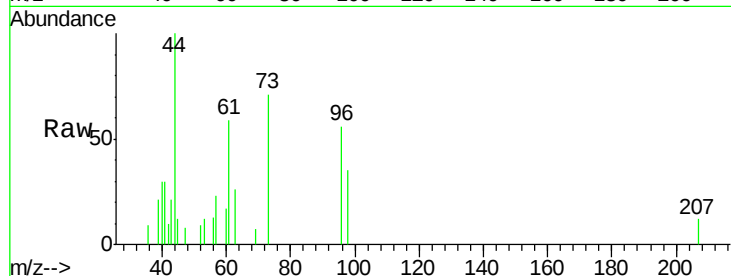
Tot Ion: 96 Resp: 3387

Ion Ratio Lower Upper

96 100

61 104.2 109.0 163.6#

98 61.6 51.1 76.7



#23

Vinyl Acetate

Concen: 0.67 ug/l

RT: 5.91 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VN049791.D

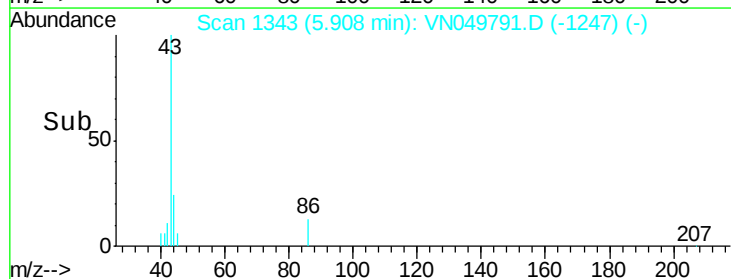
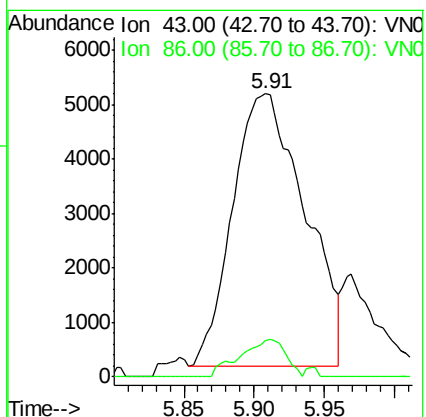
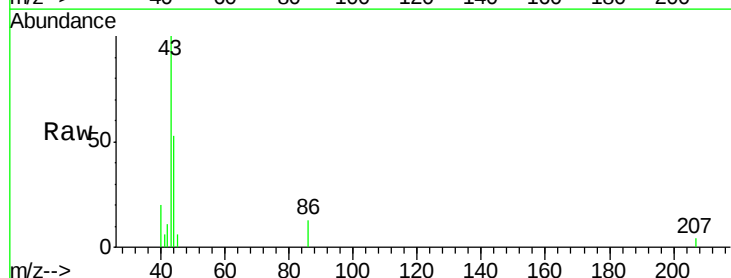
Acq: 13 Jul 2018 12:40

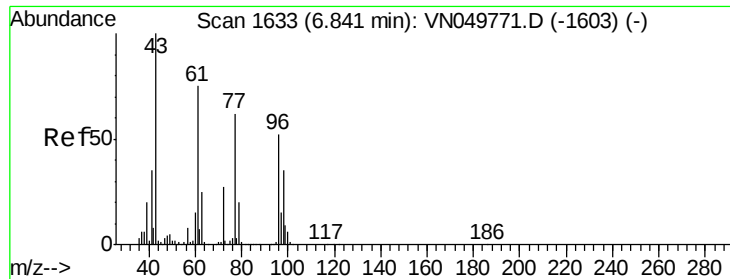
Tgt Ion: 43 Resp: 17845

Ion Ratio Lower Upper

43 100

86 13.2 8.4 12.6#





#25

2-Butanone

Concen: 1.09 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

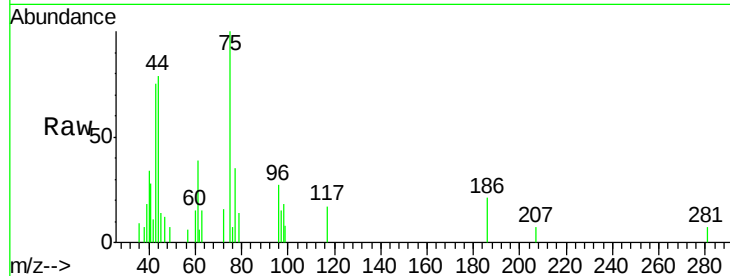
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 5426

Ion Ratio Lower Upper

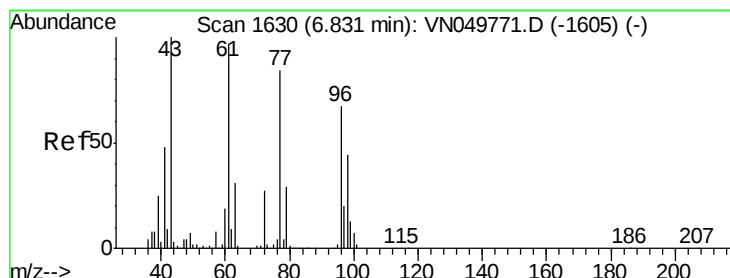
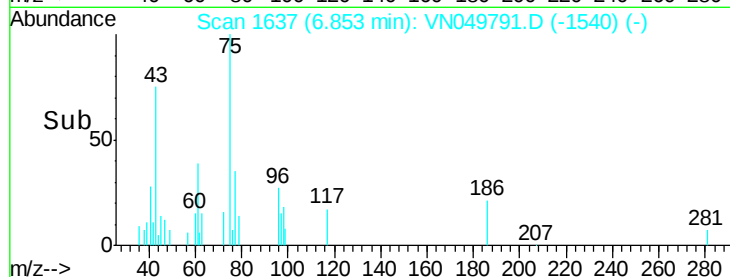
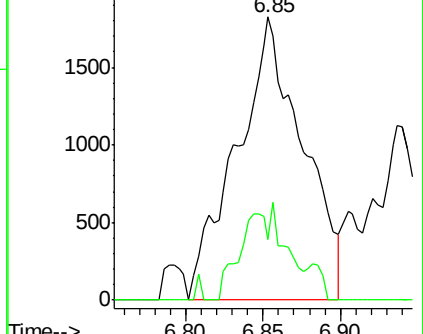
43 100

72 21.5 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#27

cis-1,2-Dichloroethene

Concen: 0.22 ug/l

RT: 6.84 min Scan# 1632

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

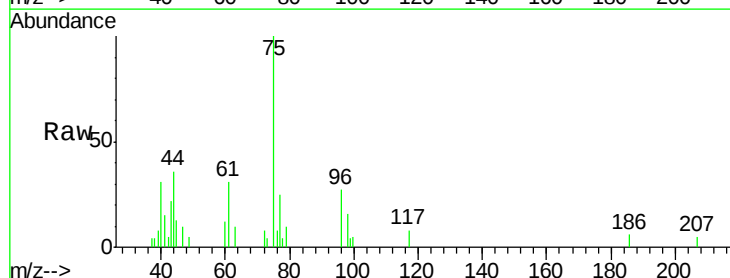
Tgt Ion: 96 Resp: 3271

Ion Ratio Lower Upper

96 100

61 0.0 0.0 289.0

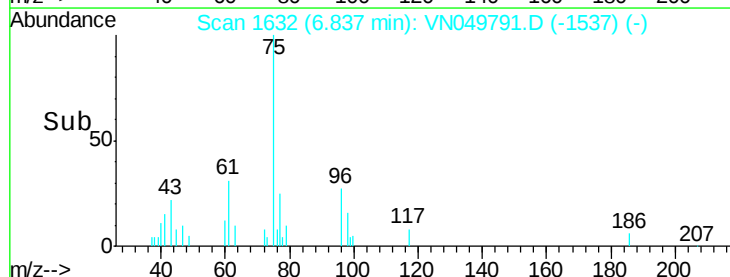
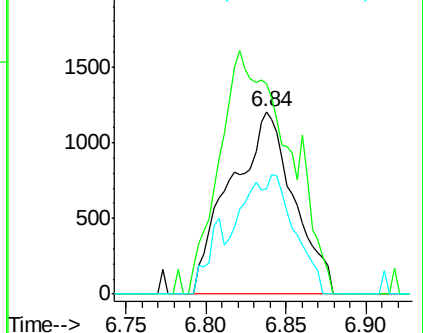
98 52.8 0.0 130.2

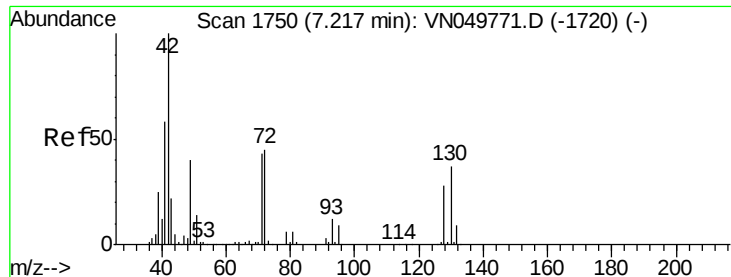


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#29

Tetrahydrofuran

Concen: 1.21 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

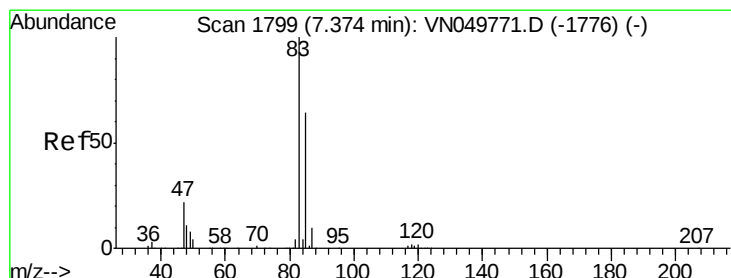
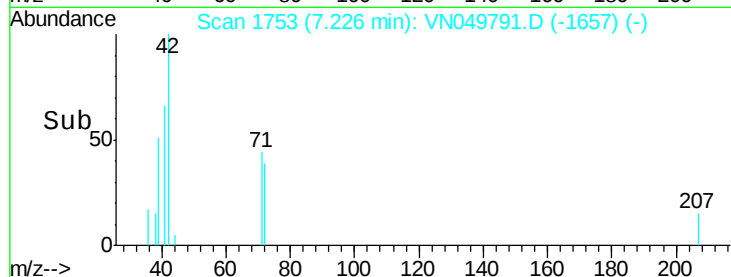
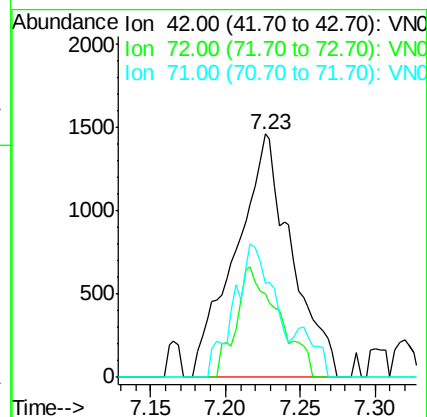
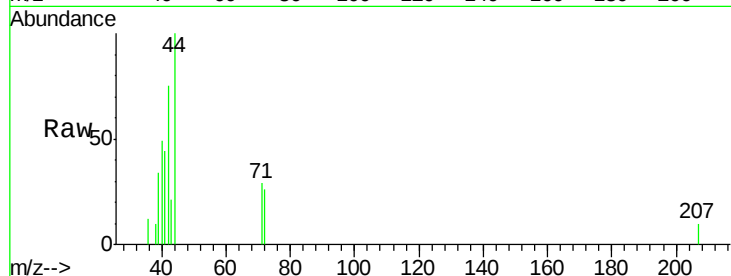
Tot Ion: 42 Resp: 3811

Ion Ratio Lower Upper

42 100

72 34.5 35.6 53.4#

71 38.8 34.0 51.0



#30

Chloroform

Concen: 0.21 ug/l

RT: 7.38 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VN049791.D

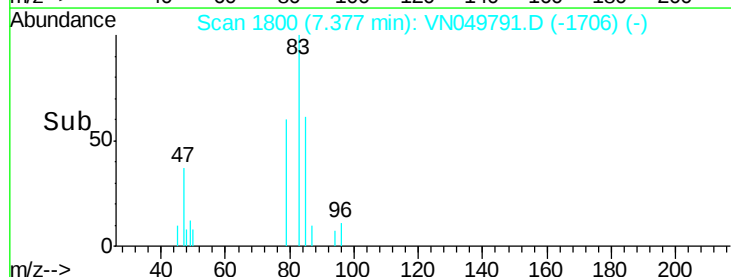
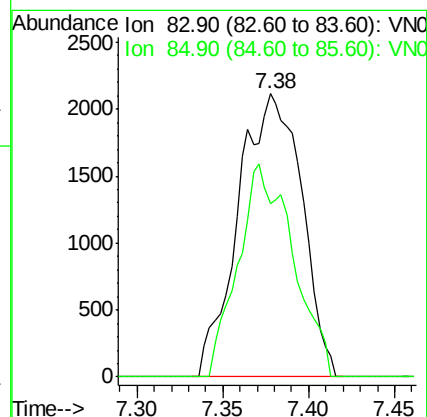
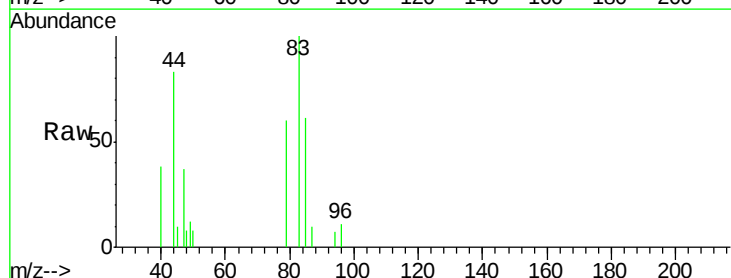
Acq: 13 Jul 2018 12:40

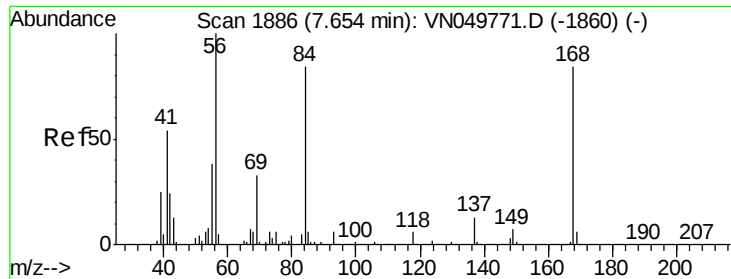
Tgt Ion: 83 Resp: 5420

Ion Ratio Lower Upper

83 100

85 61.1 51.4 77.2

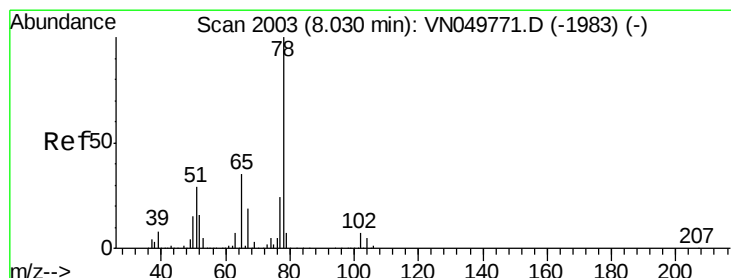
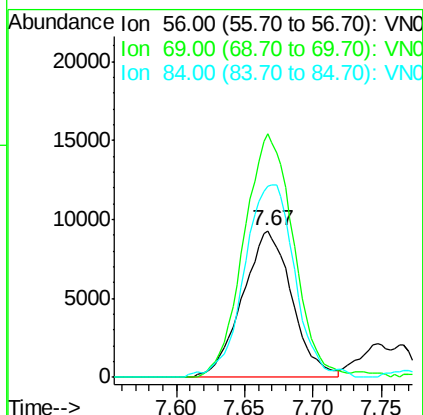
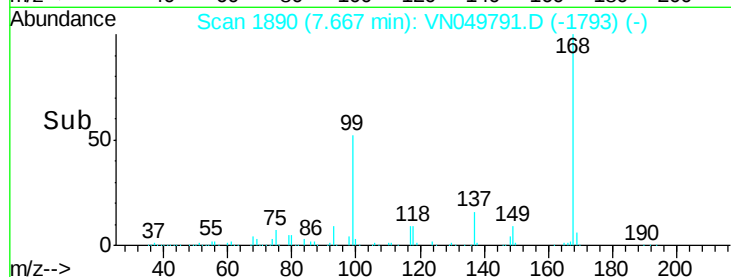
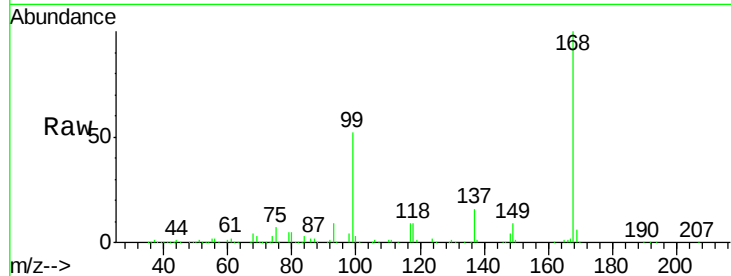




#31
Cyclohexane
Concen: 0.92 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

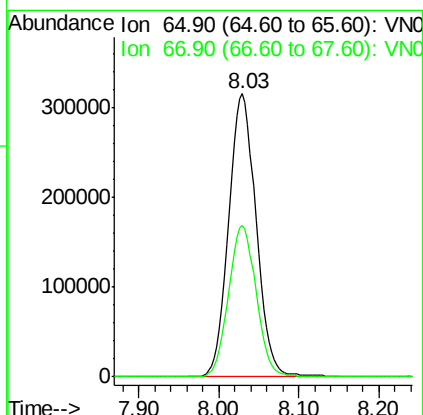
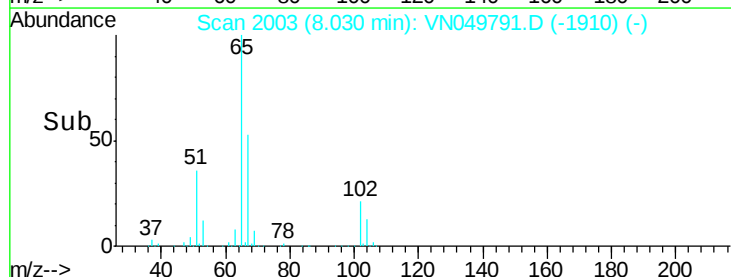
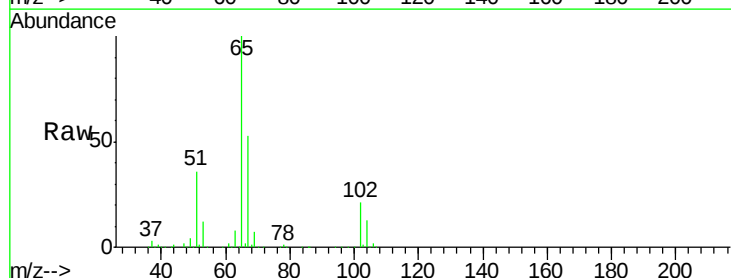
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

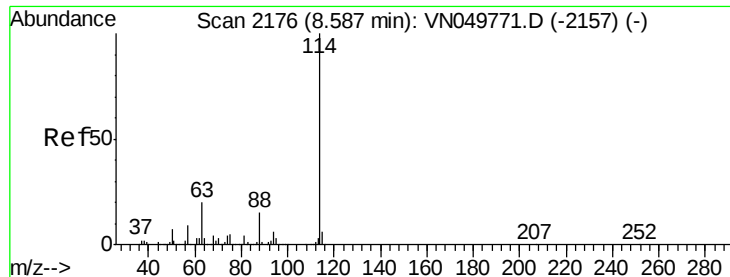
Tot Ion: 56 Resp: 23380
Ion Ratio Lower Upper
56 100
69 166.4 26.6 40.0#
84 128.9 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 57.43 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. -0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

Tgt Ion: 65 Resp: 736294
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.2

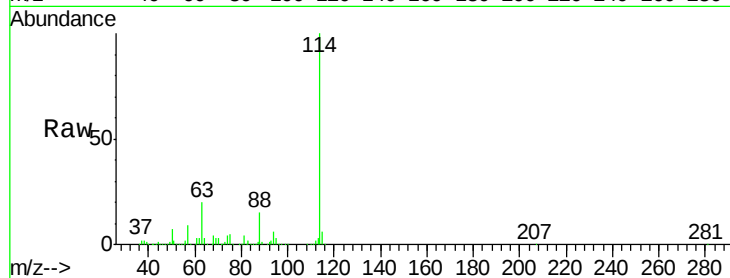




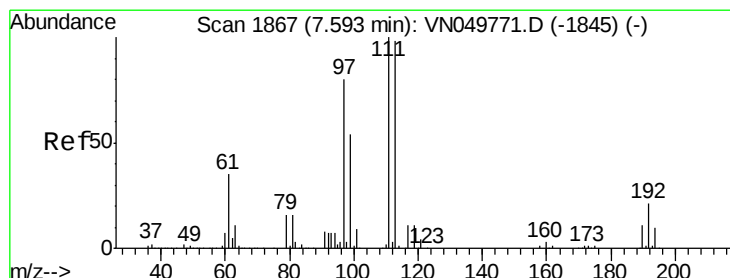
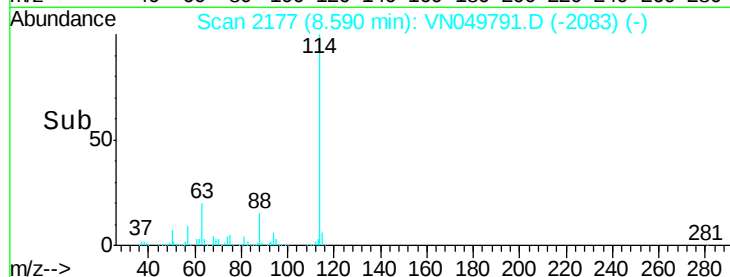
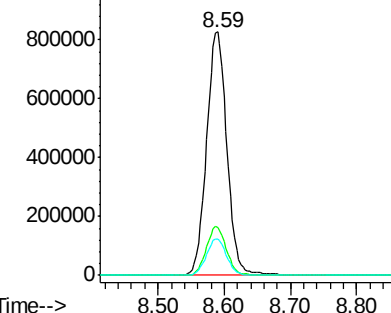
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion:114 Resp: 1759071
Ion Ratio Lower Upper
114 100
63 19.8 0.0 39.8
88 15.1 0.0 30.6

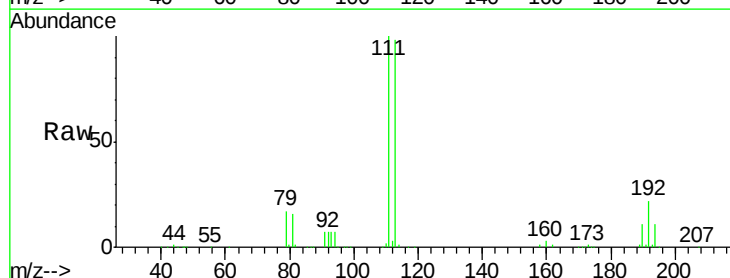


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

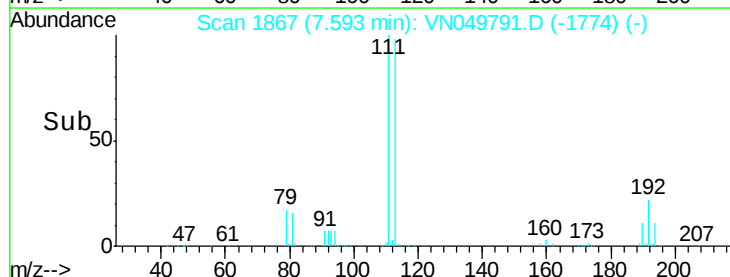
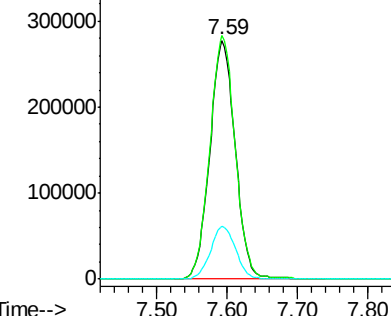


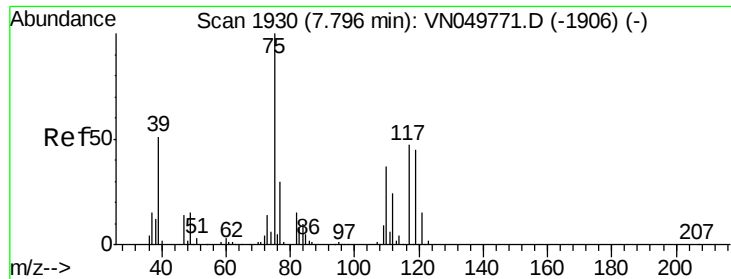
#35
Dibromofluoromethane
Concen: 52.69 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

Tgt Ion:113 Resp: 698656
Ion Ratio Lower Upper
113 100
111 101.8 81.8 122.8
192 21.9 17.8 26.6



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





#36

1,1-Dichloropropene

Concen: 0.24 ug/l

RT: 7.79 min Scan# 1928

Delta R.T. -0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

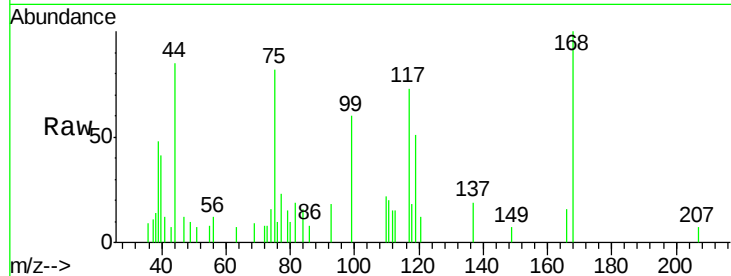
Tot Ion: 75 Resp: 4898

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

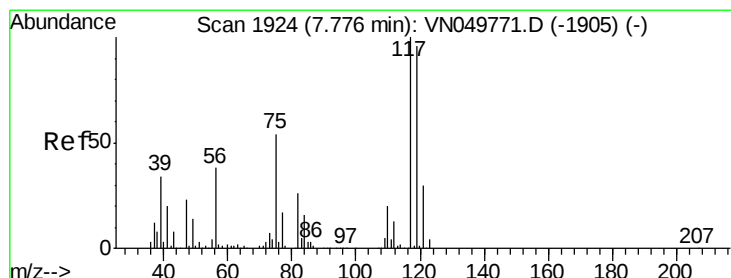
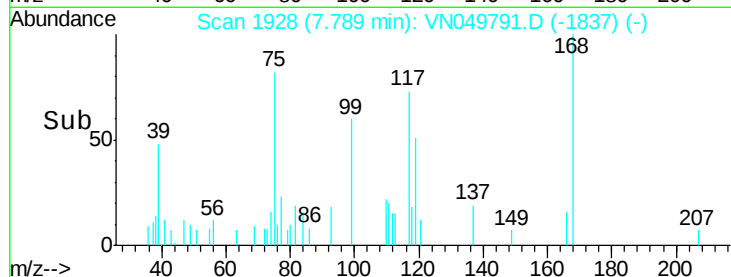
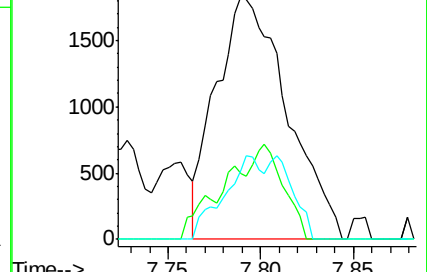
77 18.8 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN049791.D (-1837) (-)

Ion 109.90 (109.60 to 110.60): VN049791.D (-1837) (-)

Ion 76.90 (76.60 to 77.60): VN049791.D (-1837) (-)



#38

Carbon Tetrachloride

Concen: 4.63 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

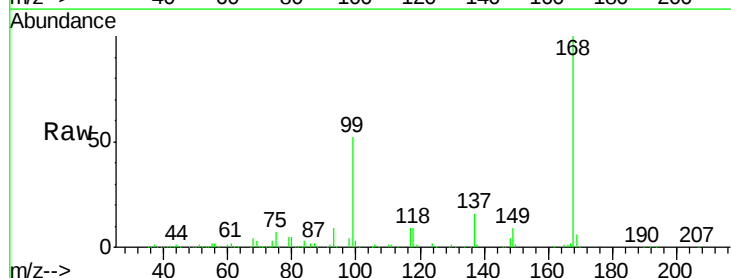
Tgt Ion: 117 Resp: 98050

Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

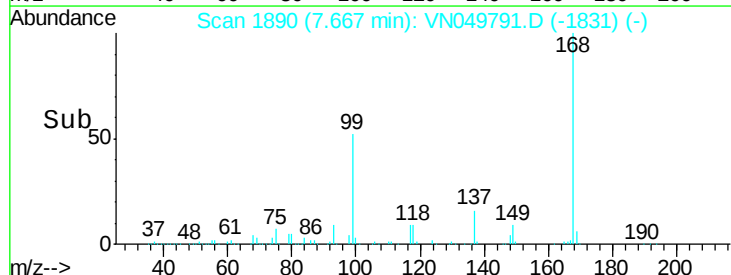
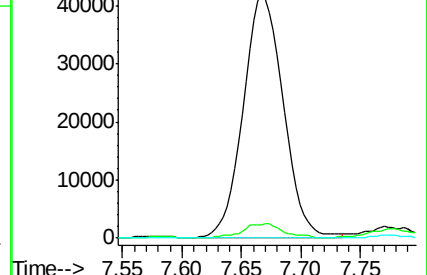
121 0.0 25.0 37.6#

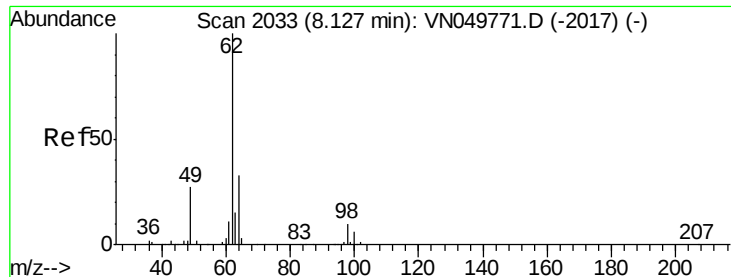


Abundance Ion 116.80 (116.50 to 117.50): VN049791.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049791.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049791.D (-1831) (-)





#42

1,2-Dichloroethane

Concen: 0.21 ug/l

RT: 8.13 min Scan# 2035

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

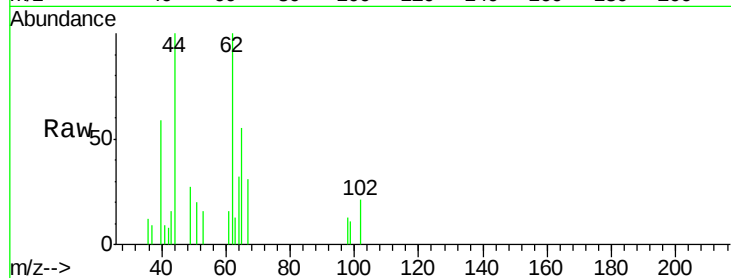
MDL-WATER-03-QT3-2018

Tot Ion: 62 Resp: 4251

Ion Ratio Lower Upper

62 100

98 6.5 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VN049771.D (-2017) (-)

Ion 97.90 (97.60 to 98.60): VN049771.D (-2017) (-)

8.13

2500

2000

1500

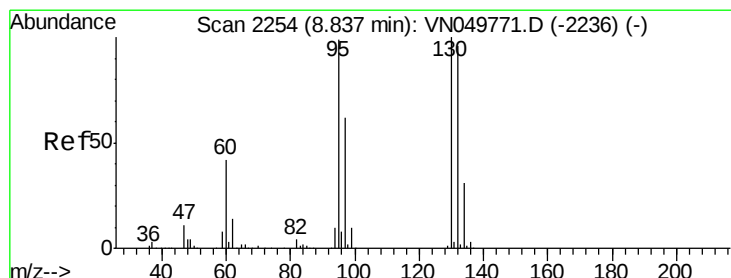
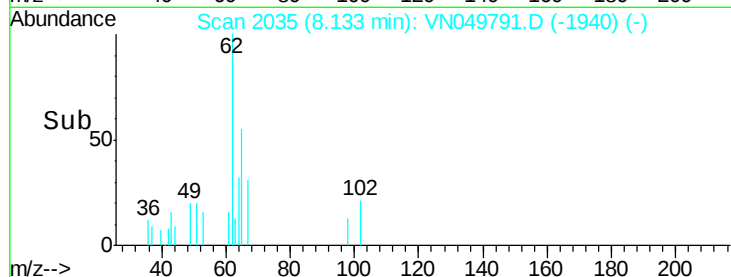
1000

500

0

8.10 8.15

Time-->



#44

Trichloroethene

Concen: 0.22 ug/l

RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VN049791.D

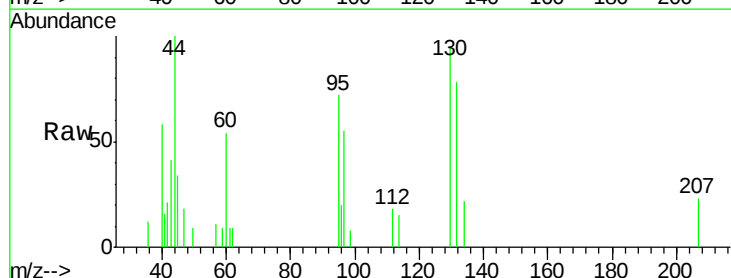
Acq: 13 Jul 2018 12:40

Tgt Ion: 130 Resp: 3521

Ion Ratio Lower Upper

130 100

95 63.4 0.0 192.8



Abundance Ion 129.80 (129.50 to 130.50): VN049771.D (-2236) (-)

Ion 94.90 (94.60 to 95.60): VN049771.D (-2236) (-)

8.83

2000

1500

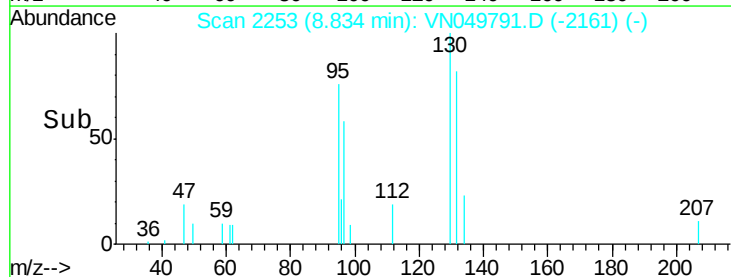
1000

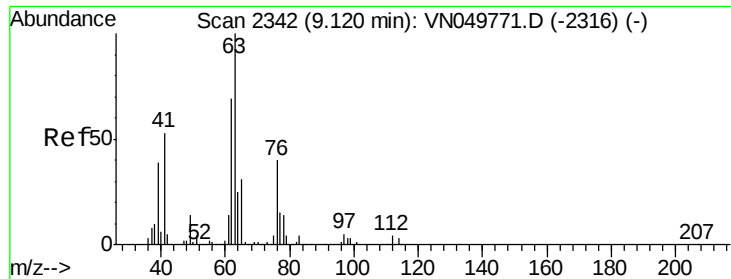
500

0

8.80 8.85

Time-->





#45

1,2-Dichloropropane

Concen: 0.20 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

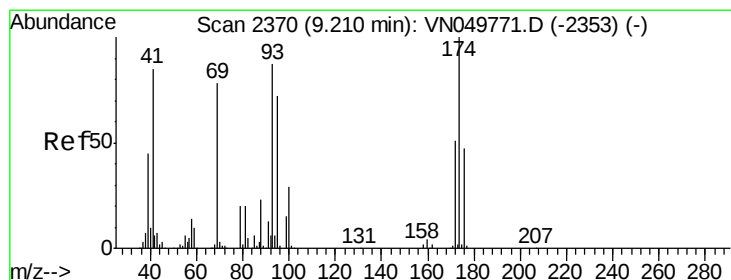
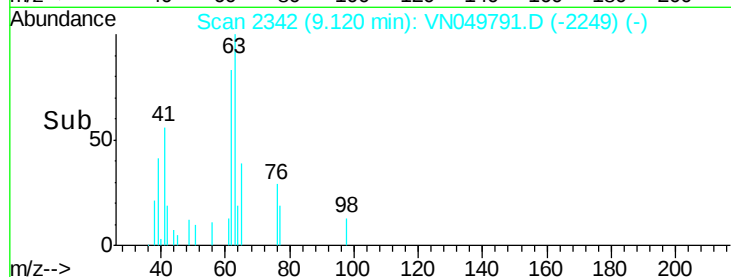
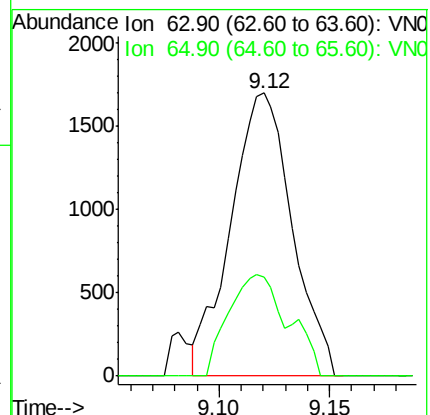
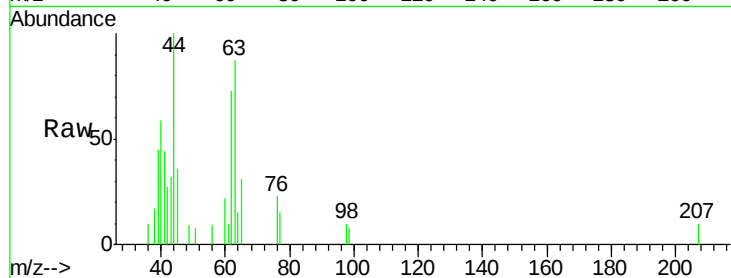
MDL-WATER-03-QT3-2018

Tot Ion: 63 Resp: 3291

Ion Ratio Lower Upper

63 100

65 35.2 24.7 37.1



#46

Dibromomethane

Concen: 0.22 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

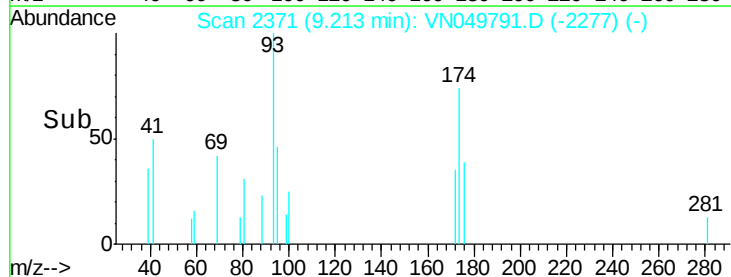
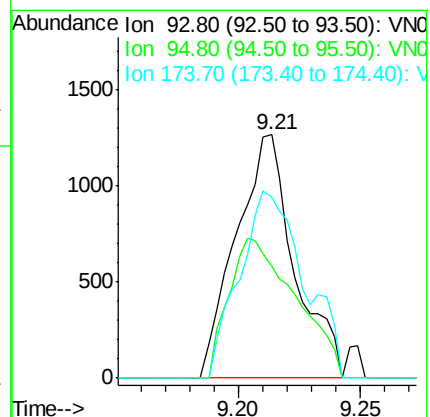
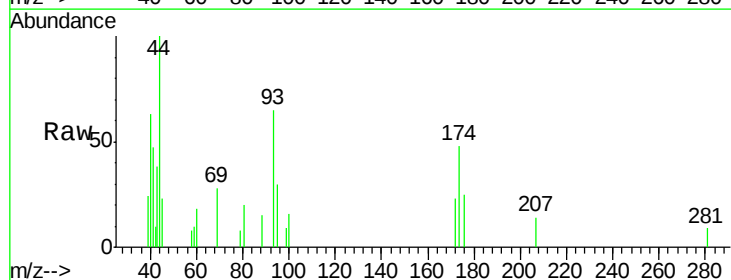
Tgt Ion: 93 Resp: 2097

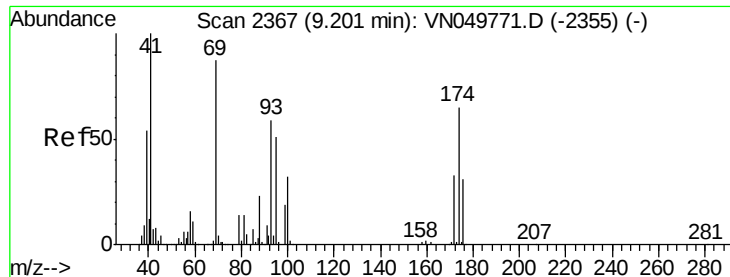
Ion Ratio Lower Upper

93 100

95 66.1 67.9 101.9#

174 85.5 89.4 134.0#

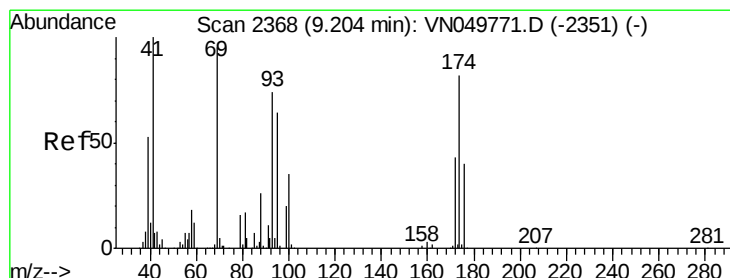
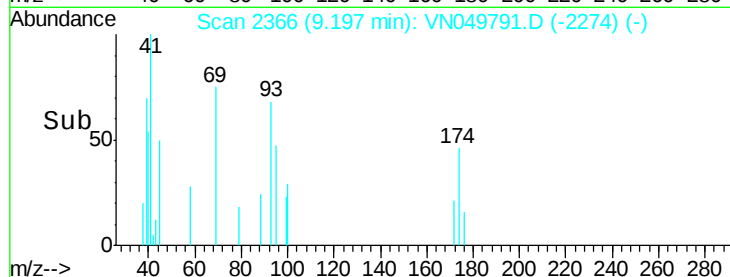
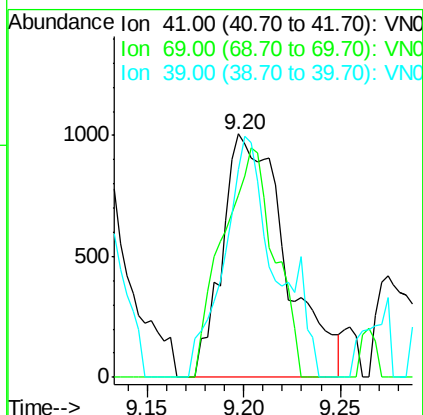
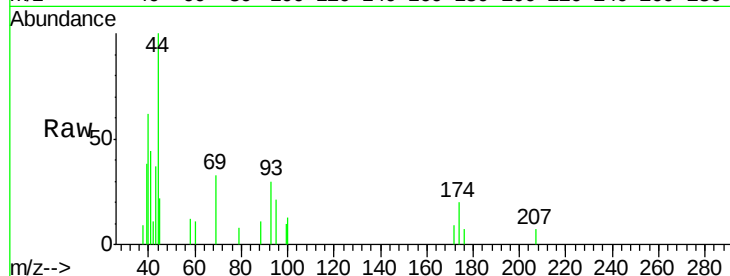




#48
Methvl methacrylate
Concen: 0.21 ug/l
RT: 9.20 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

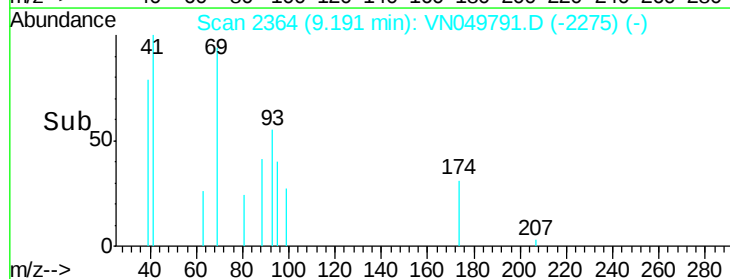
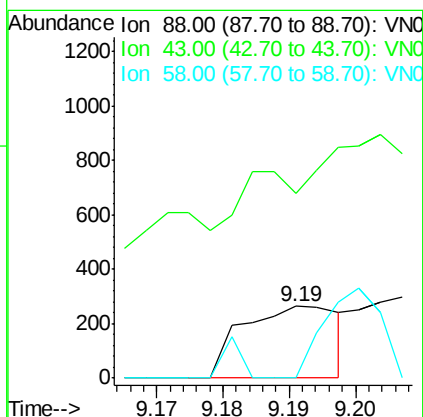
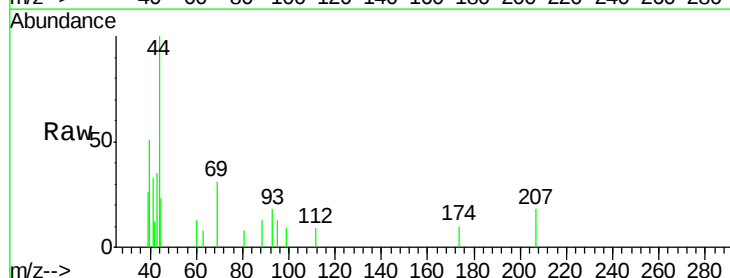
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

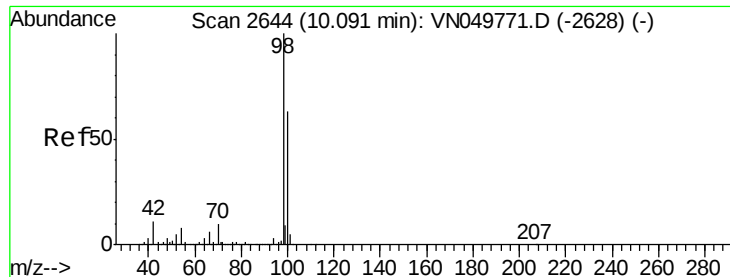
Tot Ion: 41 Resp: 2292
Ion Ratio Lower Upper
41 100
69 77.1 71.5 107.3
39 66.9 44.7 67.1



#49
1,4-Dioxane
Concen: 1.90 ug/l
RT: 9.19 min Scan# 2364
Delta R.T. -0.01 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

Tgt Ion: 88 Resp: 268
Ion Ratio Lower Upper
88 100
43 176.9 25.1 37.7#
58 73.5 52.5 78.7





#50

Toluene-d8

Concen: 46.23 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

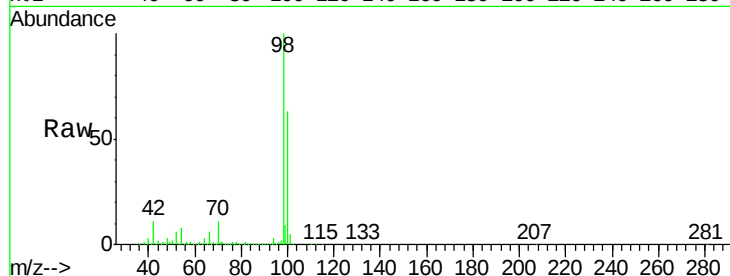
MDL-WATER-03-QT3-2018

Tot Ion: 98 Resp: 2098402

Ion Ratio Lower Upper

98 100

100 63.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049791.D (-2551) (-)

Ion 100.00 (99.70 to 100.70): VN049791.D (-2551) (-)

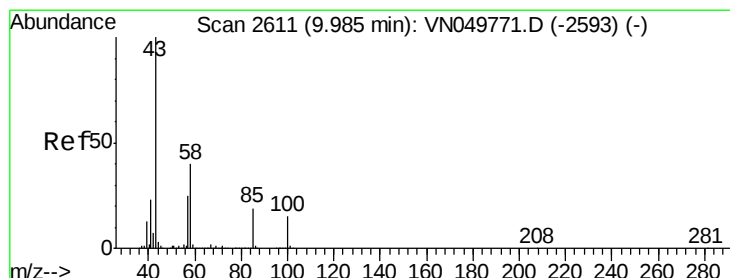
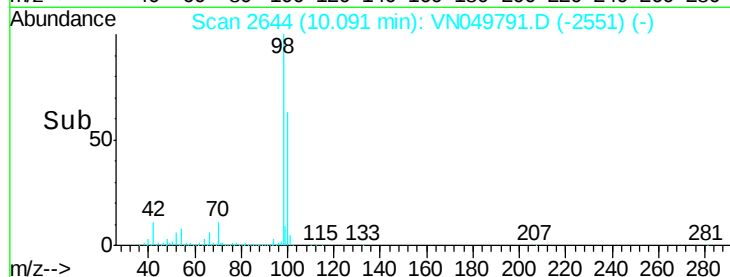
10.09

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.75 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049791.D

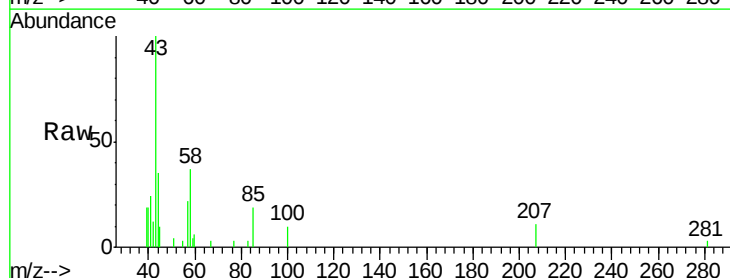
Acq: 13 Jul 2018 12:40

Tgt Ion: 43 Resp: 8825

Ion Ratio Lower Upper

43 100

58 35.2 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN049791.D (-2518) (-)

Ion 58.00 (57.70 to 58.70): VN049791.D (-2518) (-)

9.99

10000

8000

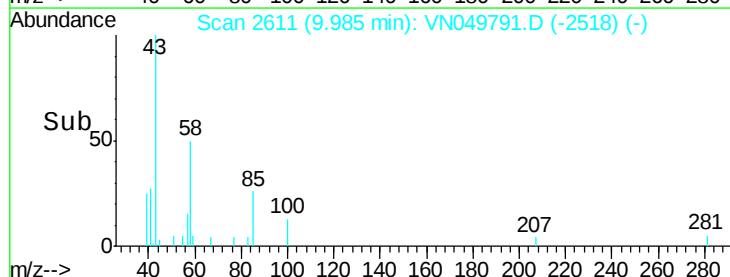
6000

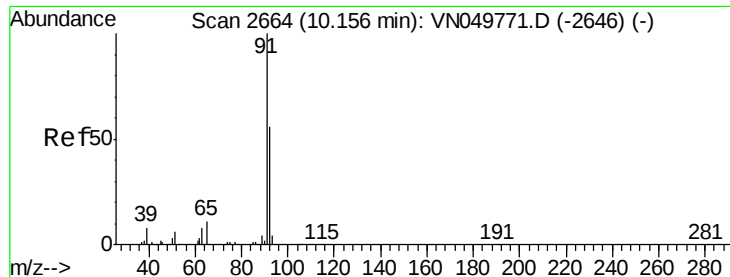
4000

2000

0

Time-->





#52

Toluene

Concen: 0.22 ug/l

RT: 10.16 min Scan# 2666

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

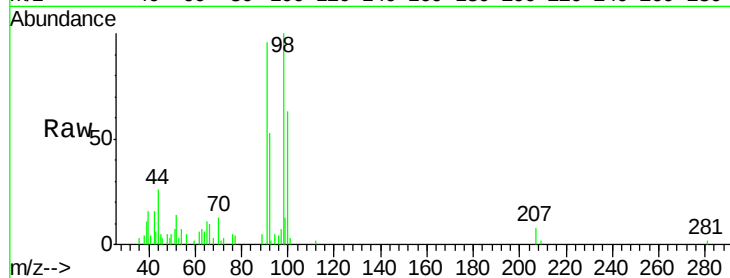
MDL-WATER-03-QT3-2018

Tot Ion: 92 Resp: 7819

Ion Ratio Lower Upper

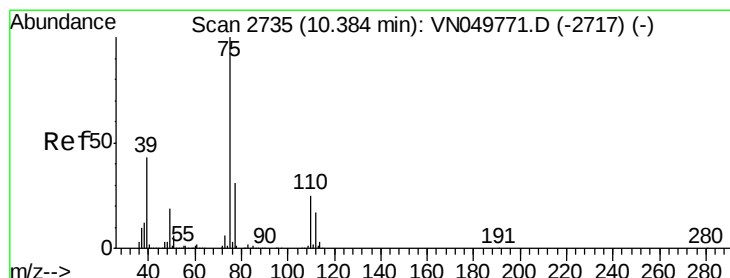
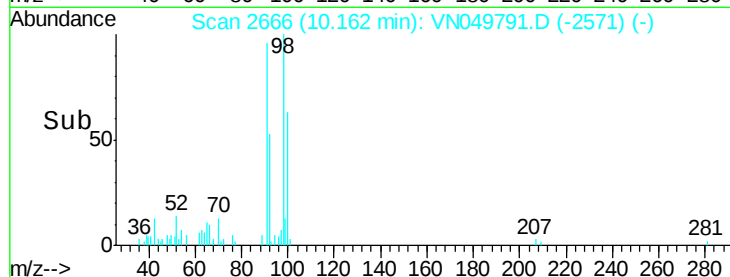
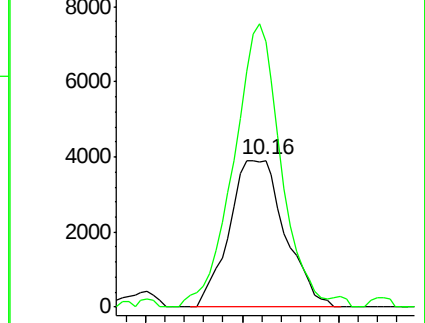
92 100

91 163.7 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 0.21 ug/l

RT: 10.39 min Scan# 2736

Delta R.T. 0.00 min

Lab File: VN049791.D

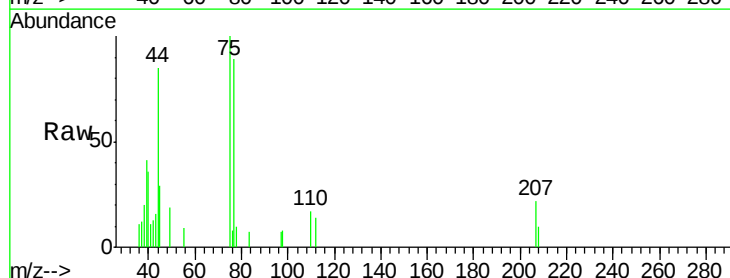
Acq: 13 Jul 2018 12:40

Tgt Ion: 75 Resp: 4319

Ion Ratio Lower Upper

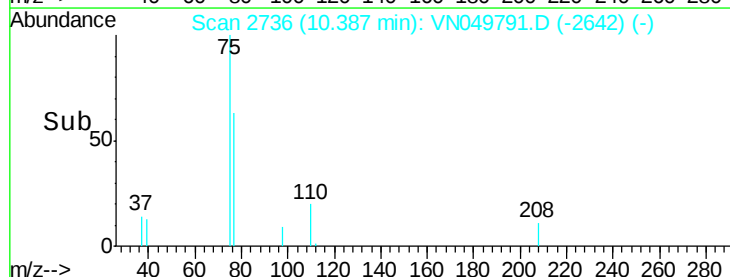
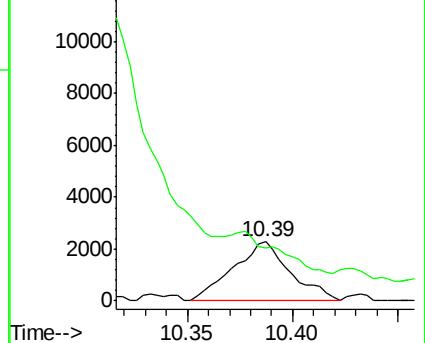
75 100

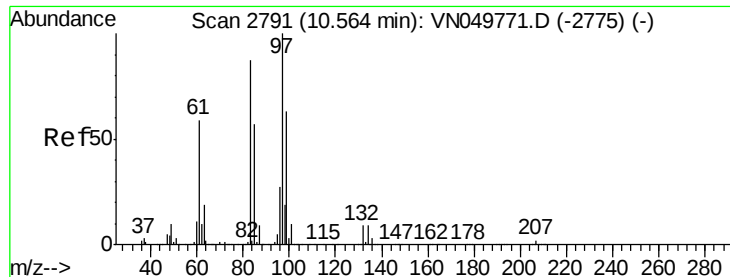
77 37.0 25.2 37.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

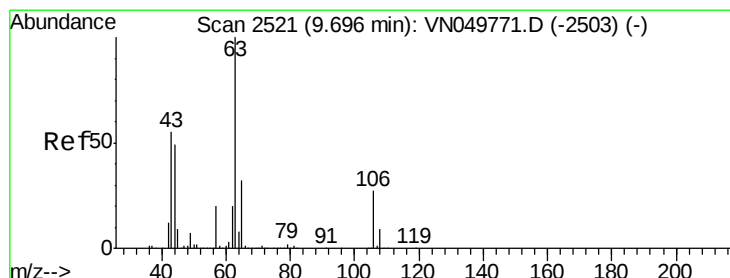
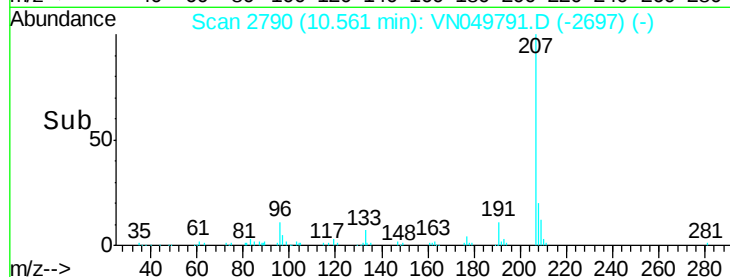
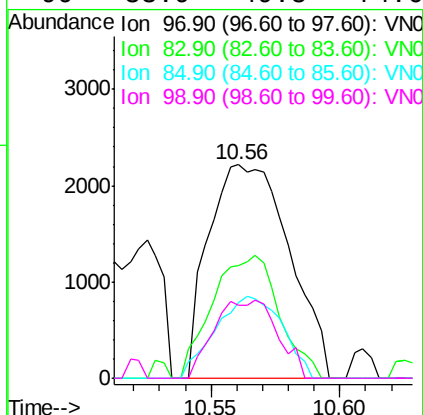
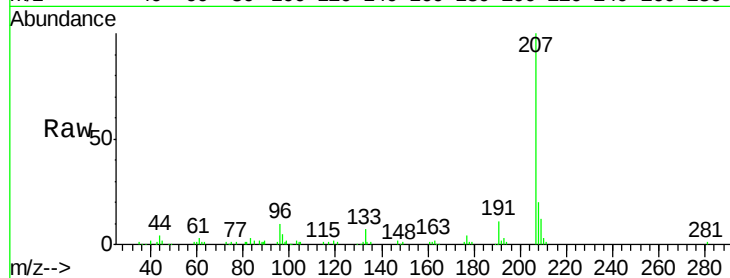




#55
 1,1,2-Trichloroethane
 Concen: Below Cal
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN049791.D
 Acq: 13 Jul 2018 12:40

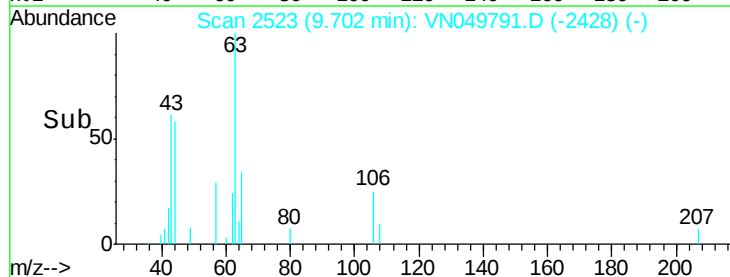
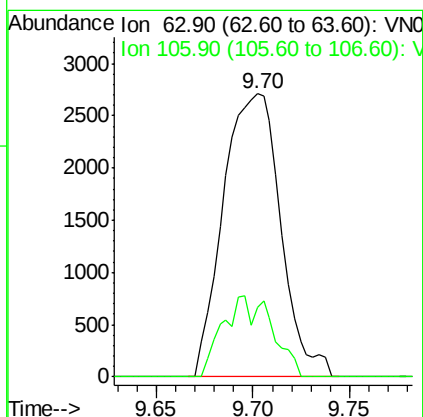
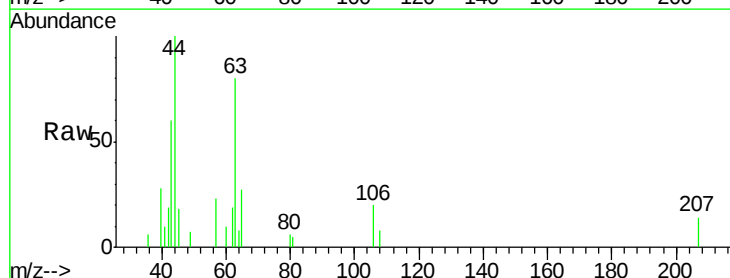
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2018

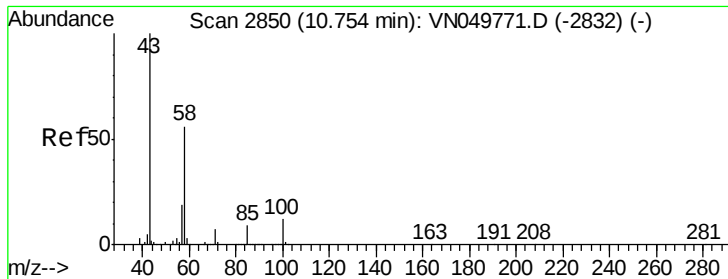
Tot Ion: 97 Resp: 4834
 Ion Ratio Lower Upper
 97 100
 83 52.6 69.0 103.6#
 85 35.3 44.9 67.3#
 99 33.9 49.8 74.6#



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.71 ug/l
 RT: 9.70 min Scan# 2523
 Delta R.T. 0.01 min
 Lab File: VN049791.D
 Acq: 13 Jul 2018 12:40

Tgt Ion: 63 Resp: 5603
 Ion Ratio Lower Upper
 63 100
 106 14.2 21.8 32.8#





#59

2-Hexanone

Concen: 0.81 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

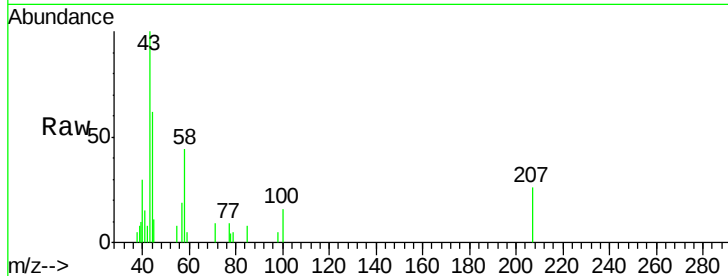
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 6344

Ion Ratio Lower Upper

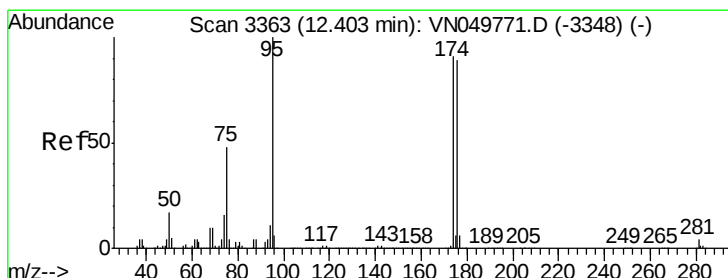
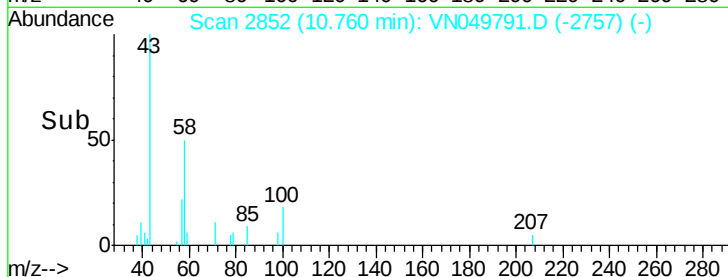
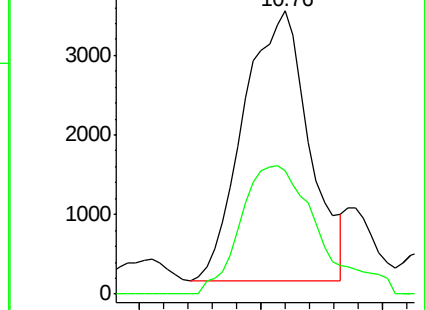
43 100

58 56.1 27.8 83.4



Abundance Ion 43.00 (42.70 to 43.70): VN049791.D (-2757) (-)

Ion 58.00 (57.70 to 58.70): VN049791.D (-2757) (-)



#62

4-Bromofluorobenzene

Concen: 38.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

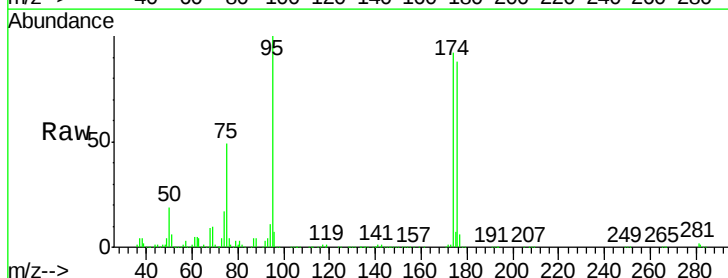
Tgt Ion: 95 Resp: 629709

Ion Ratio Lower Upper

95 100

174 92.5 0.0 179.6

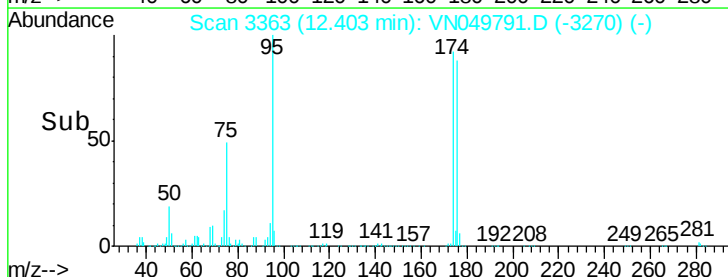
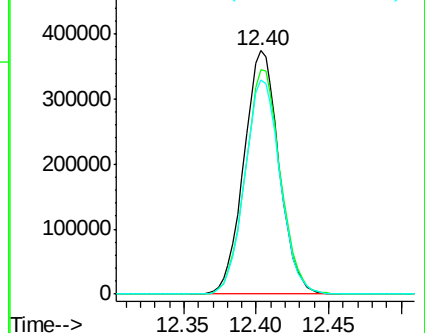
176 88.7 0.0 174.0

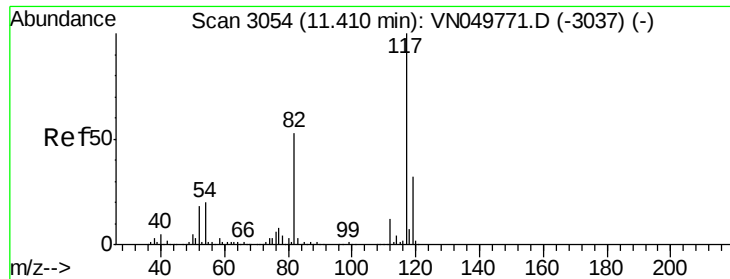


Abundance Ion 94.90 (94.60 to 95.60): VN049791.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049791.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049791.D (-3270) (-)

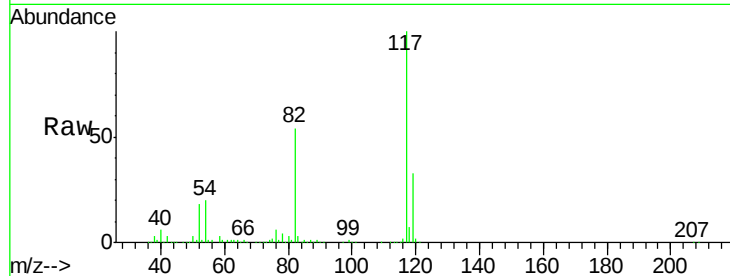




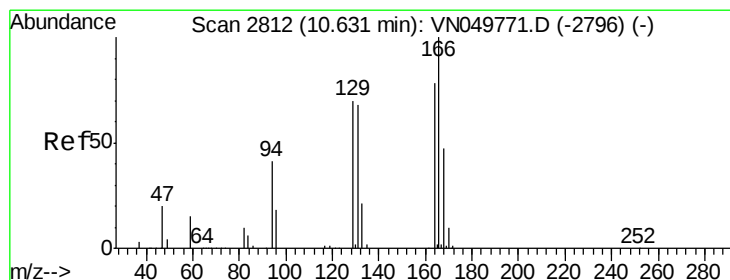
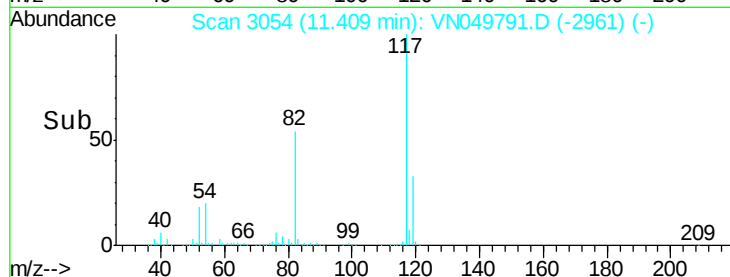
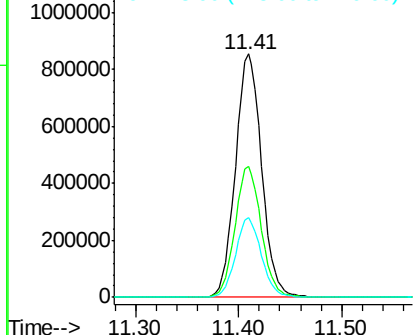
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion:117 Resp: 1509826
Ion Ratio Lower Upper
117 100
82 54.1 41.9 62.9
119 32.7 25.4 38.2

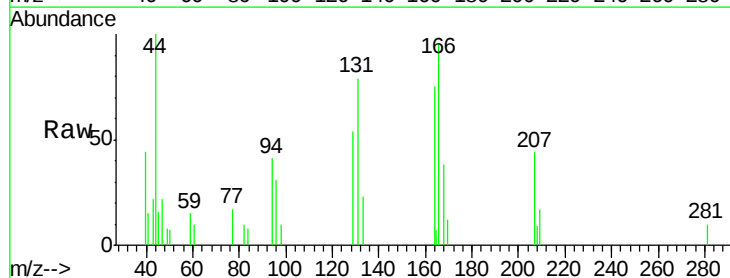


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

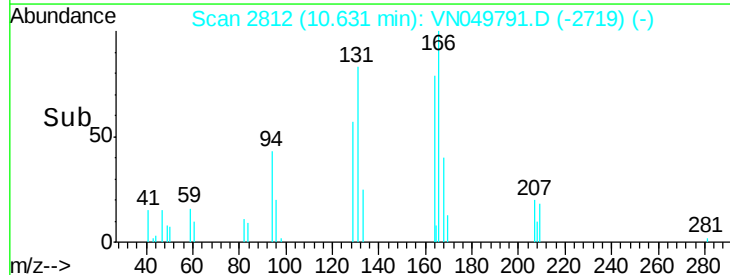
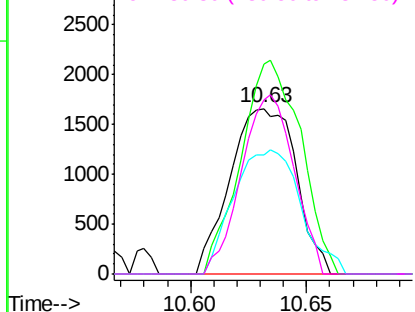


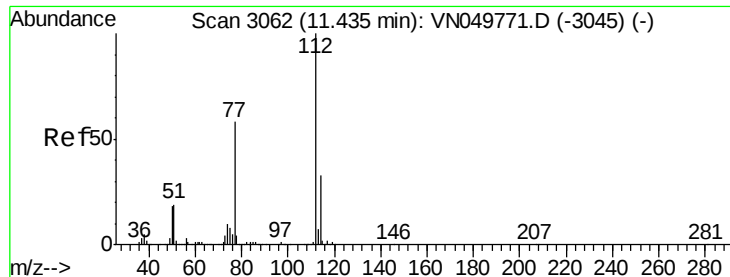
#64
Tetrachloroethene
Concen: 0.24 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

Tgt Ion:164 Resp: 3288
Ion Ratio Lower Upper
164 100
166 127.0 101.8 152.6
129 72.1 72.8 109.2#
131 105.7 70.0 105.0#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 0.21 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

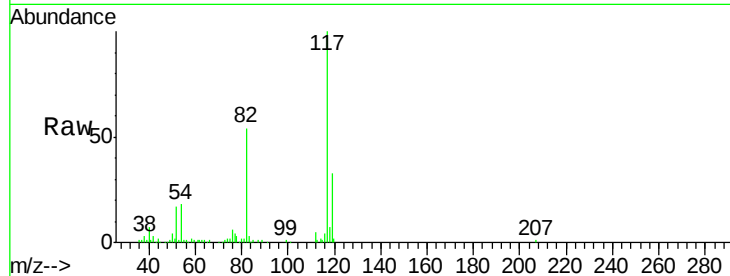
MDL-WATER-03-QT3-2018

Tot Ion:112 Resp: 8322

Ion Ratio Lower Upper

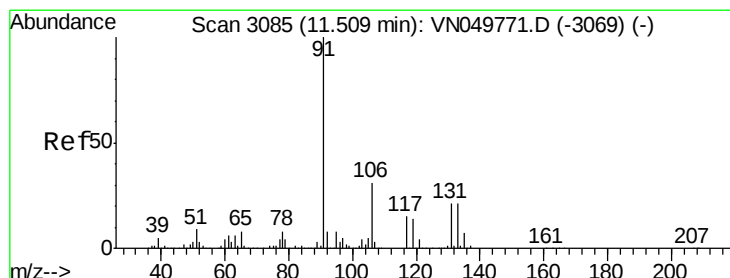
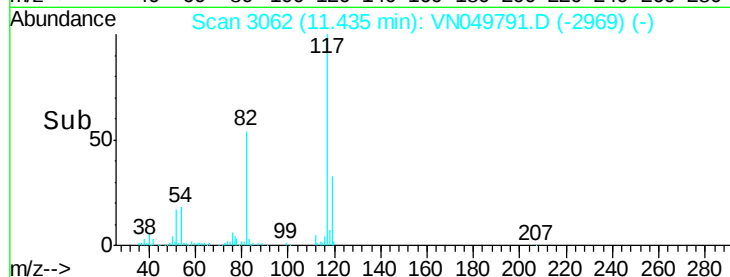
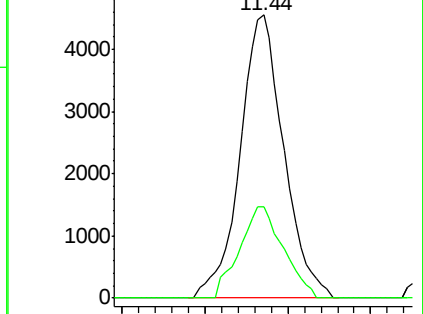
112 100

114 32.3 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.22 ug/l

RT: 11.52 min Scan# 3087

Delta R.T. 0.01 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

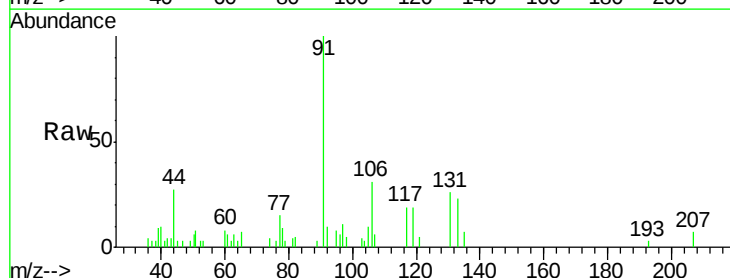
Tgt Ion:131 Resp: 3284

Ion Ratio Lower Upper

131 100

133 97.1 47.5 142.6

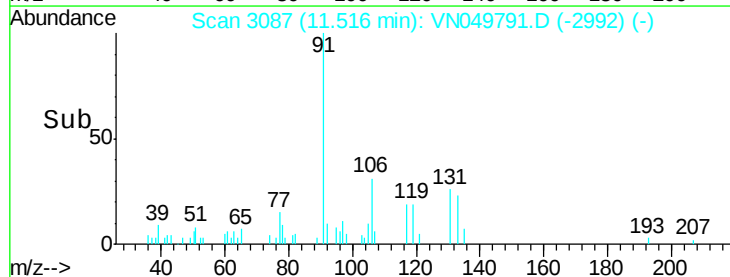
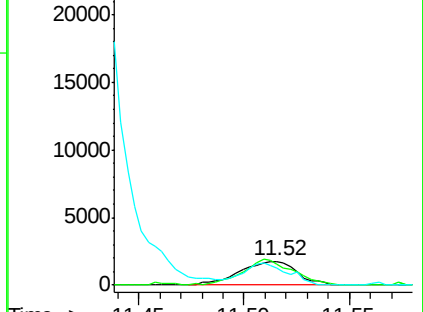
119 0.0 33.1 99.3#

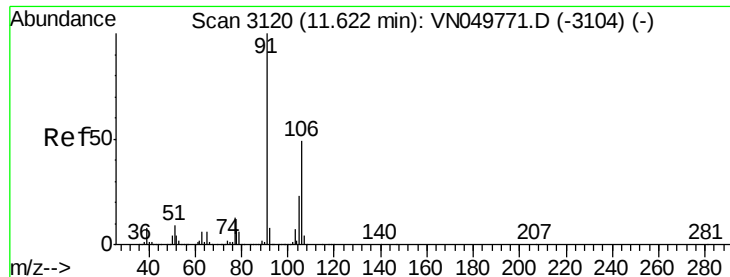


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

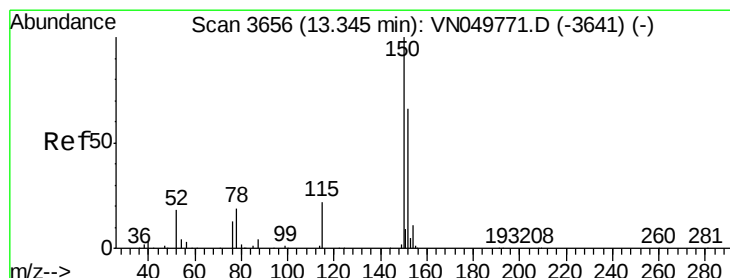
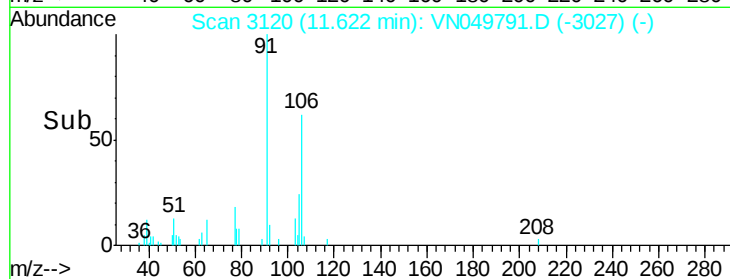
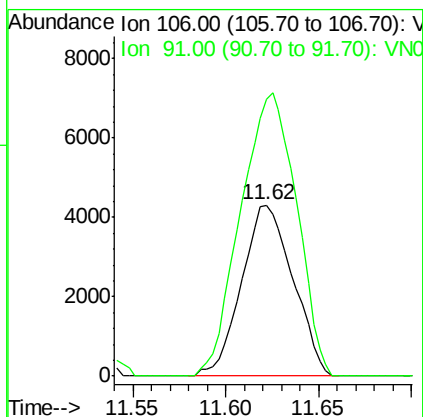
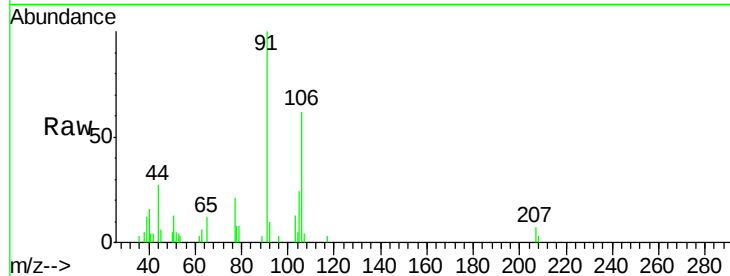




#68
m/p-Xvlenes
Concen: 0.34 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

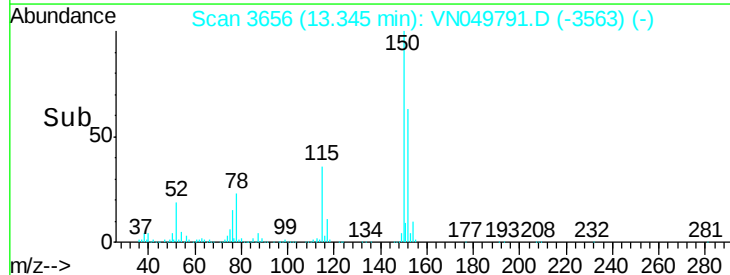
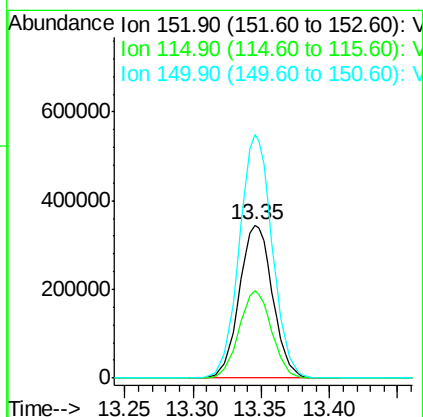
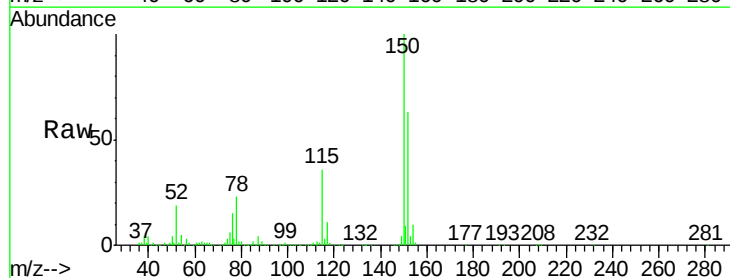
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

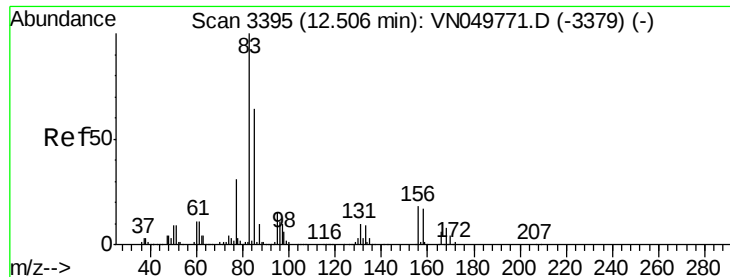
Tot Ion:106 Resp: 8308
Ion Ratio Lower Upper
106 100
91 179.6 163.4 245.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049791.D
Acq: 13 Jul 2018 12:40

Tgt Ion:152 Resp: 580923
Ion Ratio Lower Upper
152 100
115 55.8 28.1 84.2
150 157.3 0.0 347.6





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

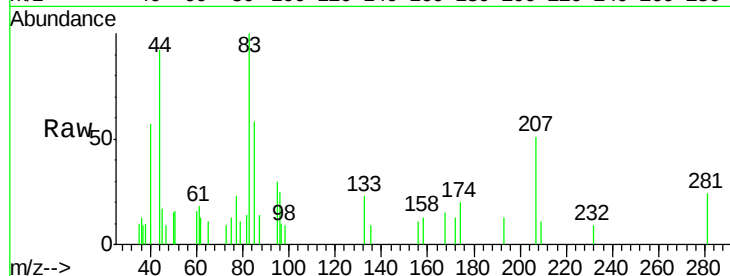
Tot Ion: 83 Resp: 3024

Ion Ratio Lower Upper

83 100

131 2.2 5.2 15.6#

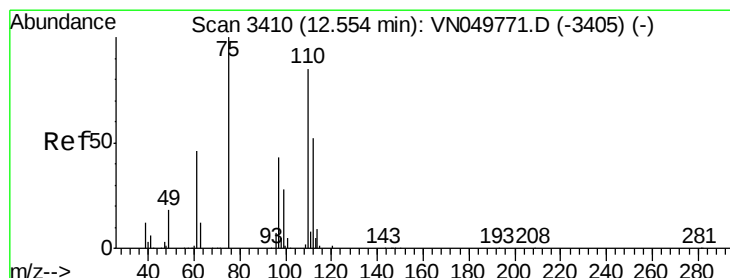
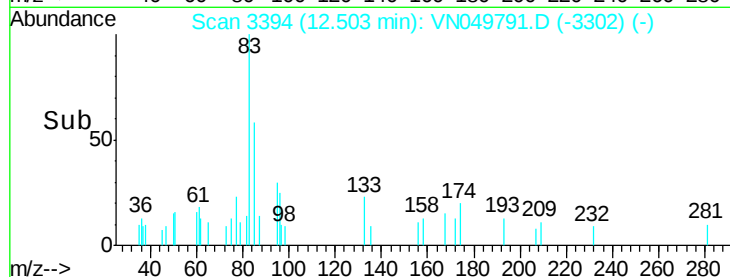
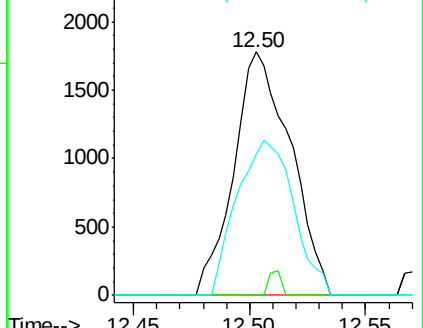
85 63.8 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 30.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049791.D

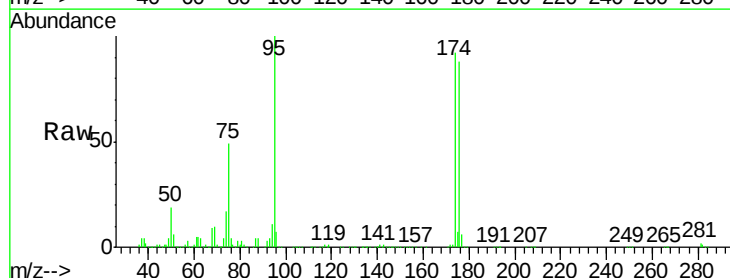
Acq: 13 Jul 2018 12:40

Tgt Ion: 75 Resp: 312009

Ion Ratio Lower Upper

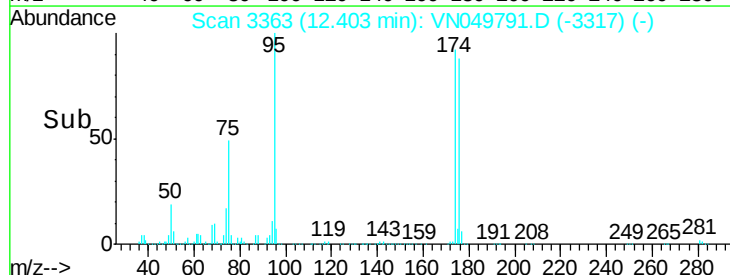
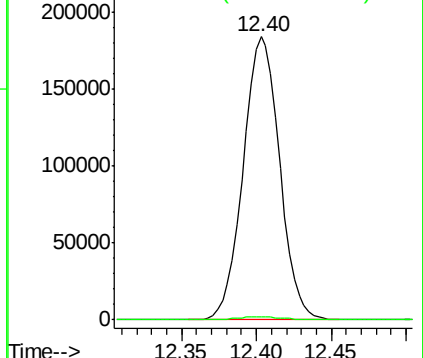
75 100

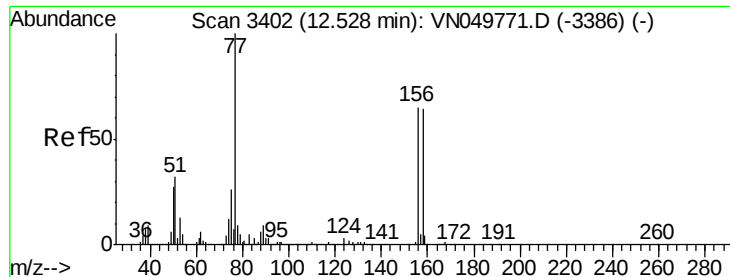
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 0.26 ug/l

RT: 12.53 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

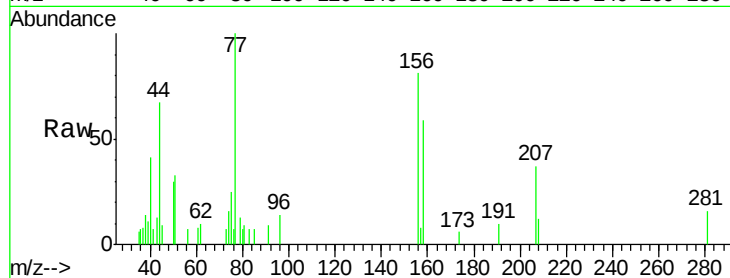
Tot Ion:156 Resp: 3355

Ion Ratio Lower Upper

156 100

77 158.9 90.2 270.6

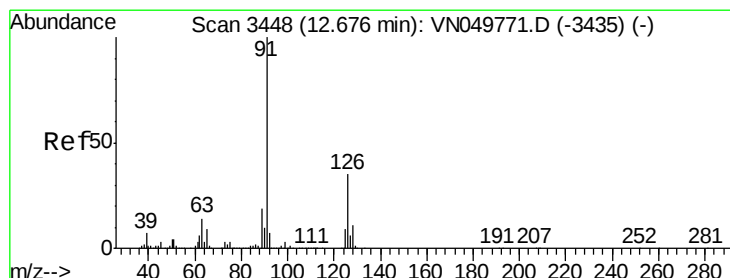
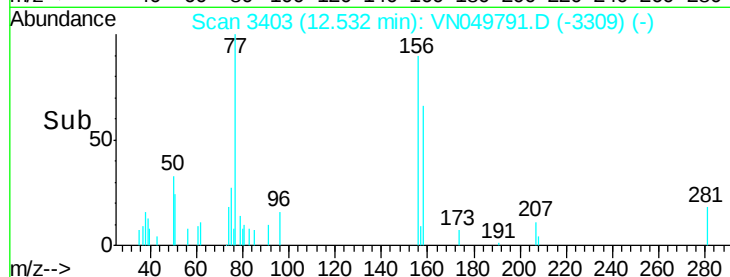
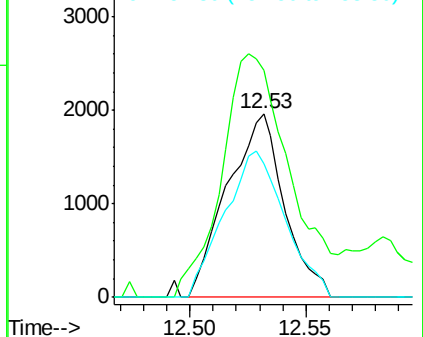
158 84.7 49.1 147.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#79

2-Chlorotoluene

Concen: 0.22 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN049791.D

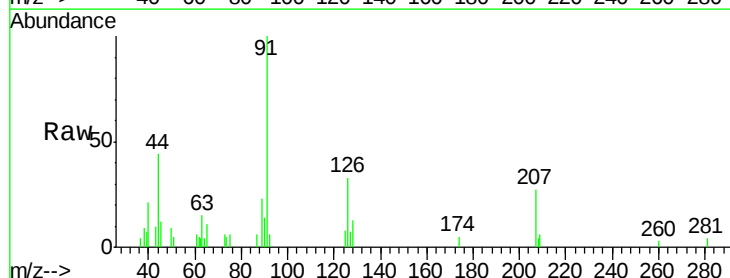
Acq: 13 Jul 2018 12:40

Tgt Ion: 91 Resp: 7328

Ion Ratio Lower Upper

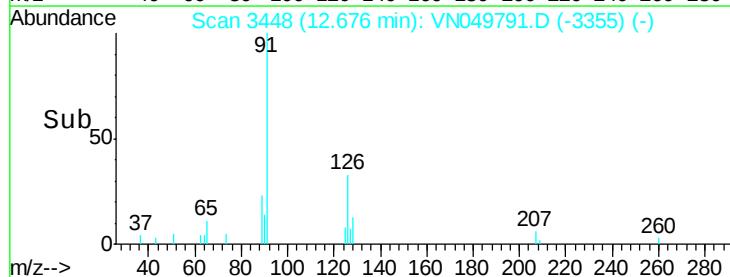
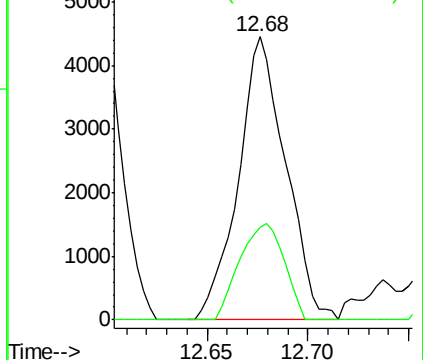
91 100

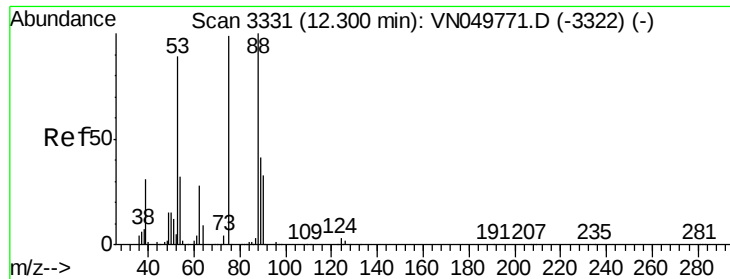
126 32.0 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 97.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

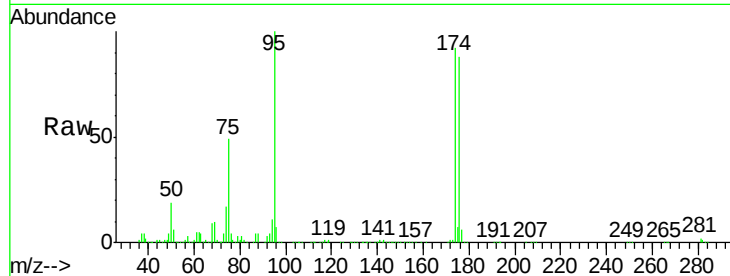
Tot Ion: 75 Resp: 312009

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

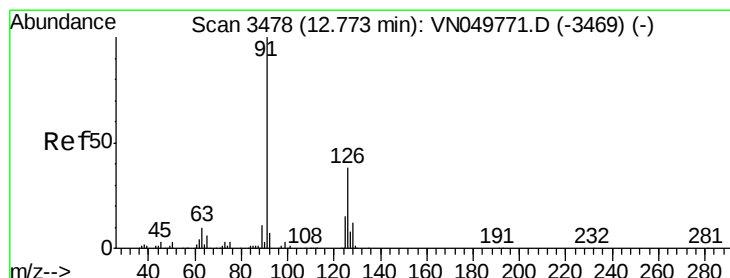
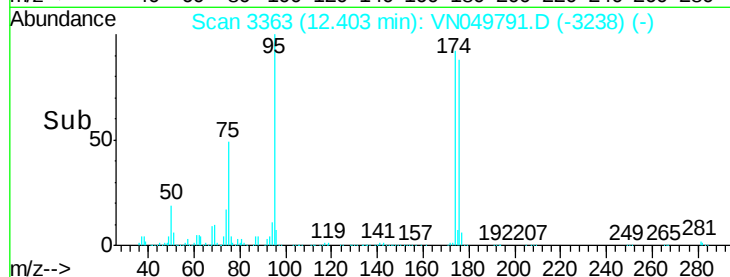
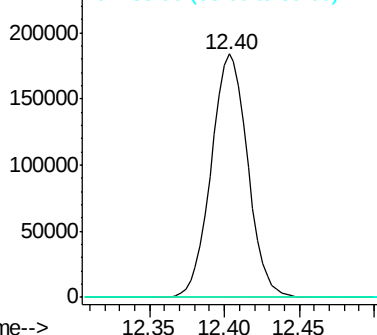
89 0.0 35.9 53.9#



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



#82

4-Chlorotoluene

Concen: 0.20 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. -0.00 min

Lab File: VN049791.D

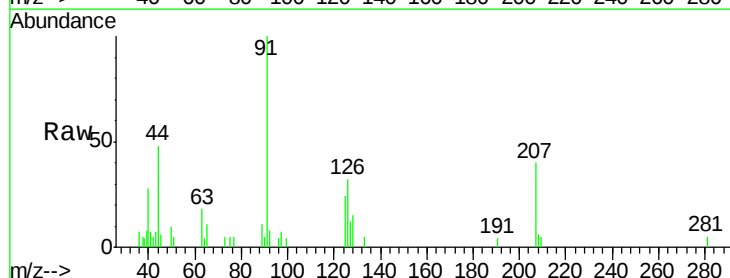
Acq: 13 Jul 2018 12:40

Tgt Ion: 91 Resp: 6638

Ion Ratio Lower Upper

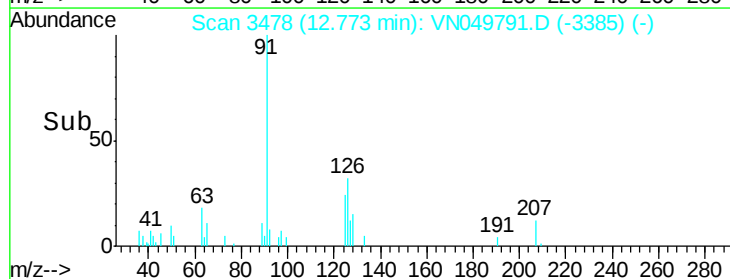
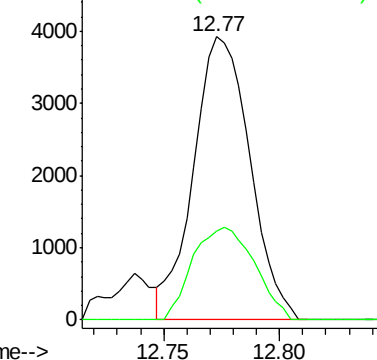
91 100

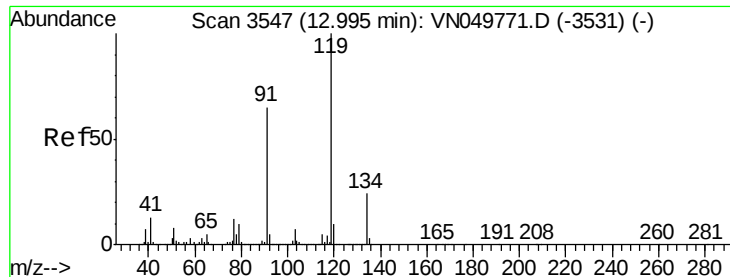
126 35.9 17.2 51.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 0.20 ug/l

RT: 12.99 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

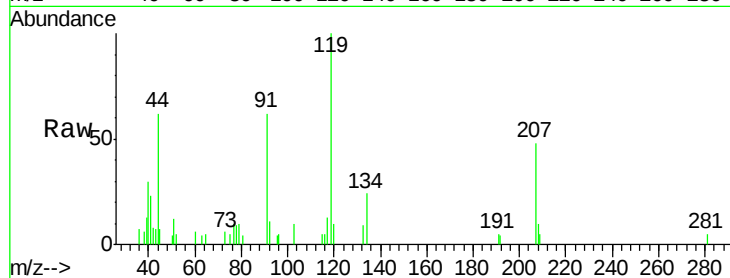
Tot Ion:119 Resp: 6907

Ion Ratio Lower Upper

119 100

91 60.2 32.0 96.2

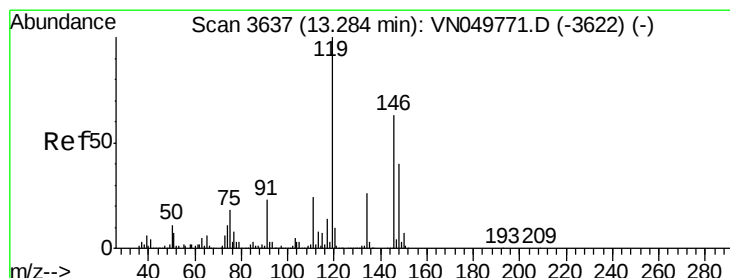
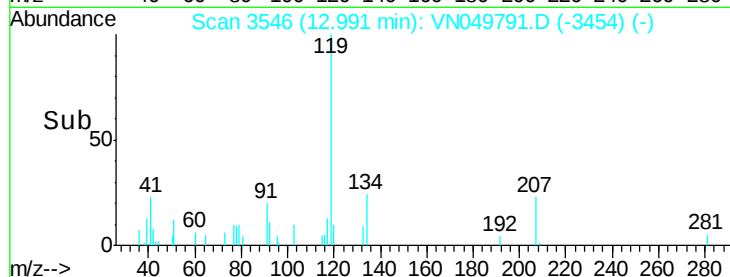
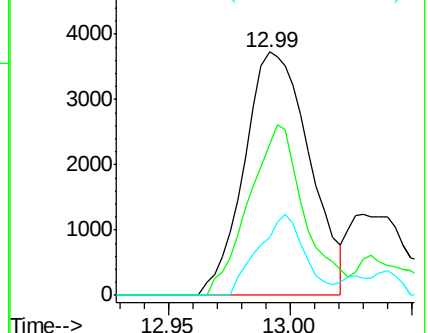
134 23.7 12.8 38.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 0.20 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

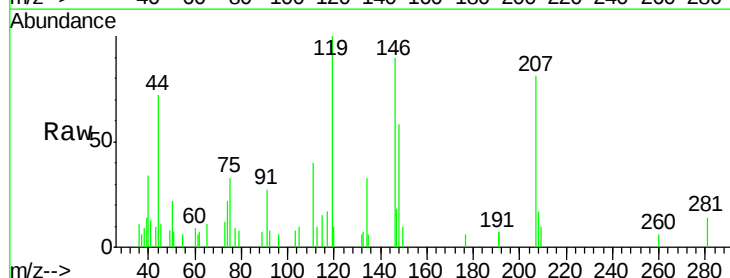
Tgt Ion:146 Resp: 4531

Ion Ratio Lower Upper

146 100

111 42.9 19.0 57.0

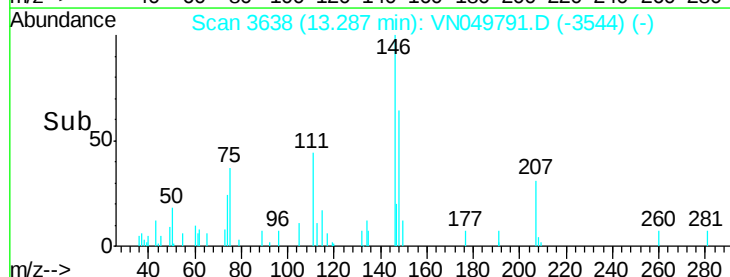
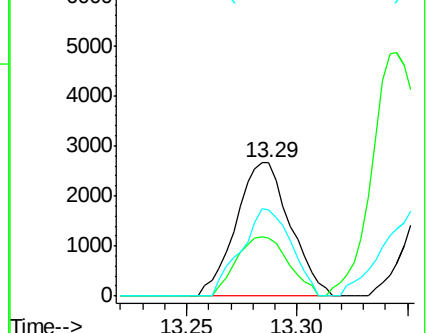
148 60.3 32.5 97.5

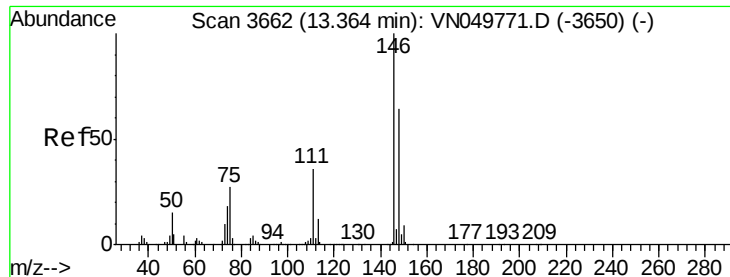


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 0.21 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. -0.08 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

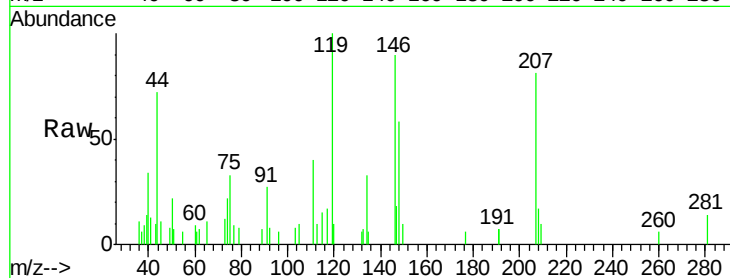
Tot Ion:146 Resp: 4531

Ion Ratio Lower Upper

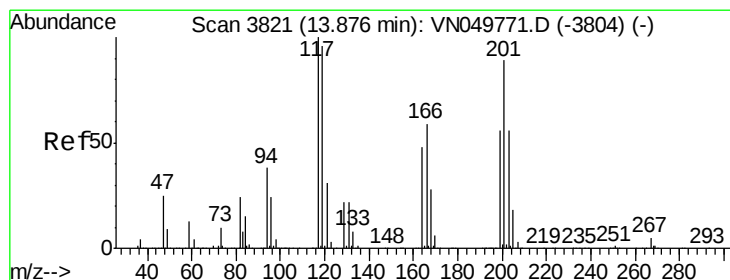
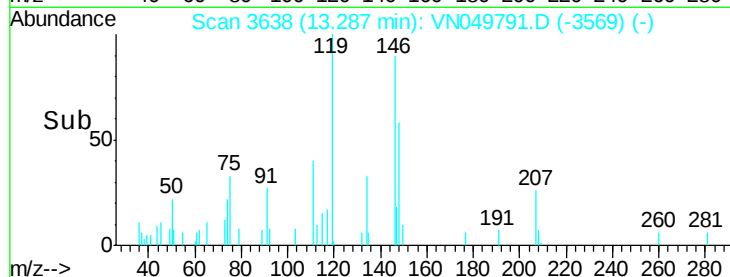
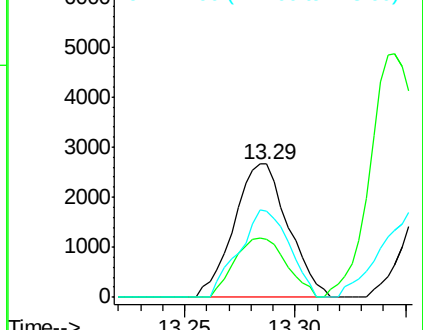
146 100

111 42.9 18.9 56.5

148 60.3 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



#90

Hexachloroethane

Concen: Below Cal

RT: 13.88 min Scan# 3821

Delta R.T. 0.00 min

Lab File: VN049791.D

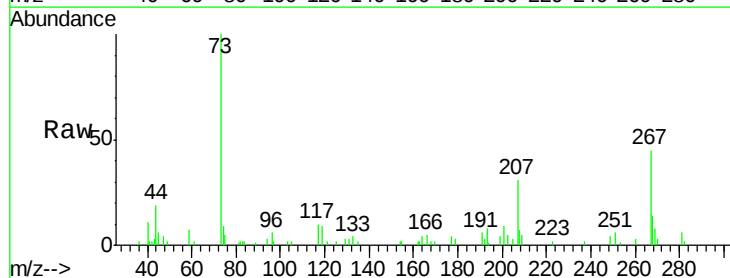
Acq: 13 Jul 2018 12:40

Tgt Ion:117 Resp: 2225

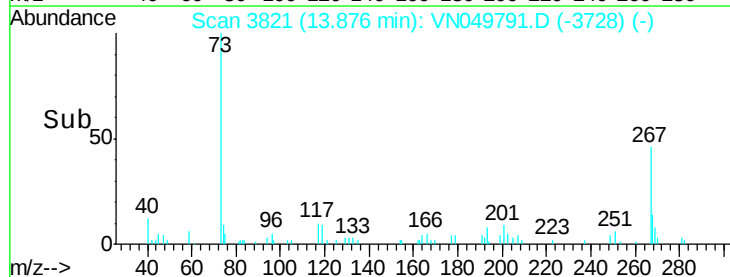
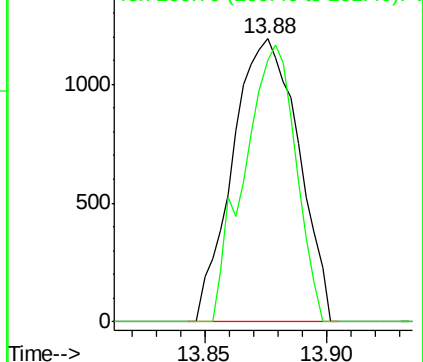
Ion Ratio Lower Upper

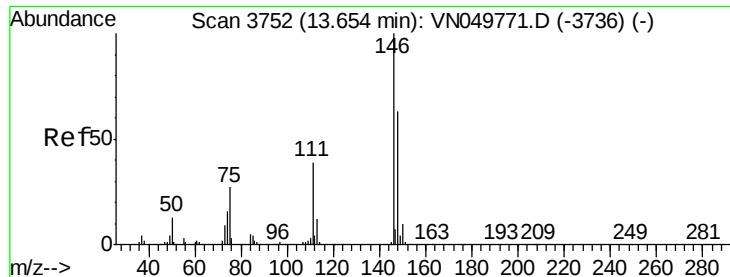
117 100

201 76.9 45.3 135.8



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 0.22 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

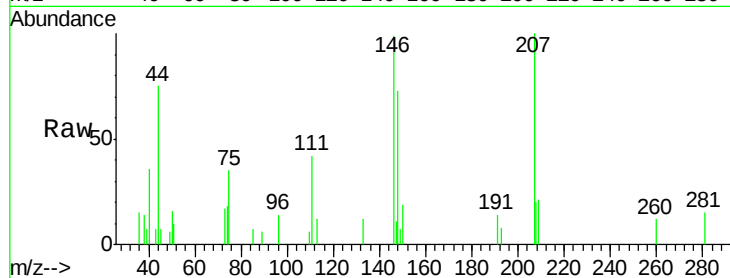
Tot Ion:146 Resp: 4786

Ion Ratio Lower Upper

146 100

111 43.3 19.7 59.1

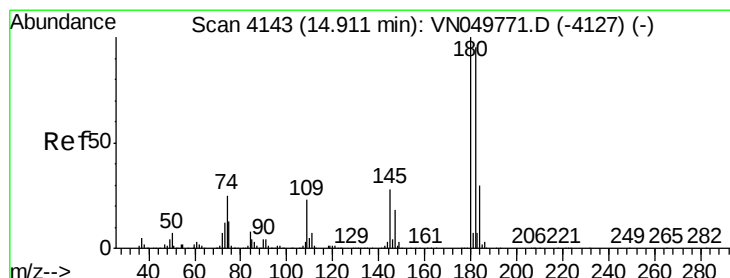
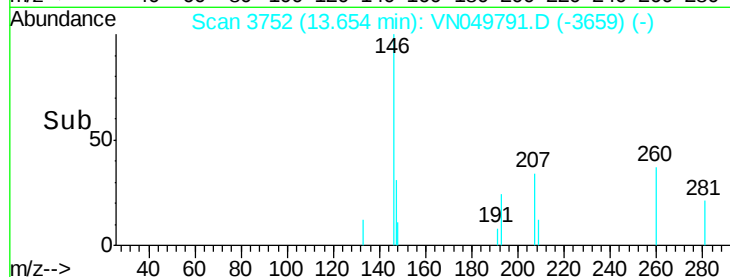
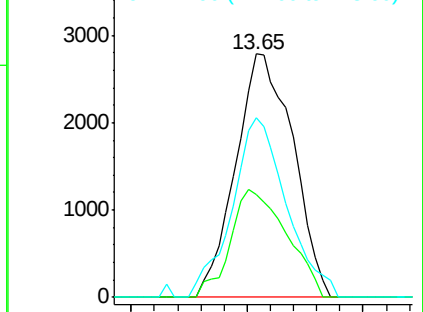
148 70.1 32.0 96.2



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: 3.06 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

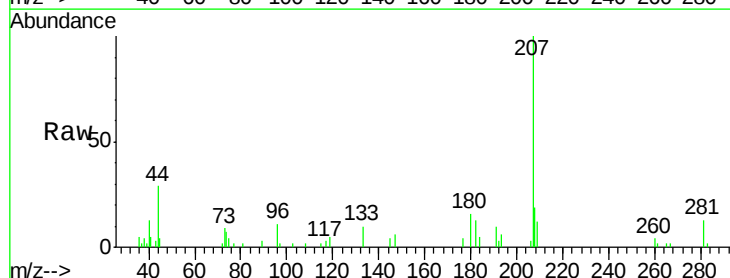
Tgt Ion:180 Resp: 2124

Ion Ratio Lower Upper

180 100

182 89.2 47.3 141.9

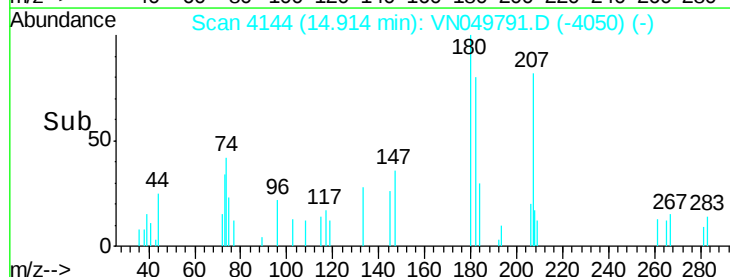
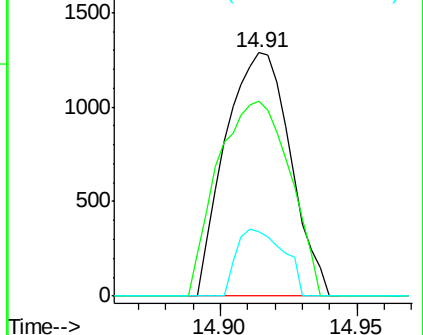
145 20.0 14.4 43.0

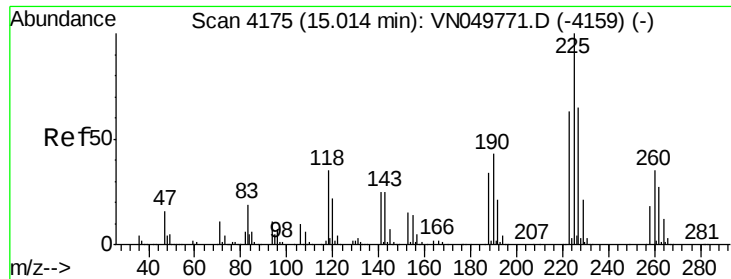


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.02 min Scan# 4176

Delta R.T. 0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

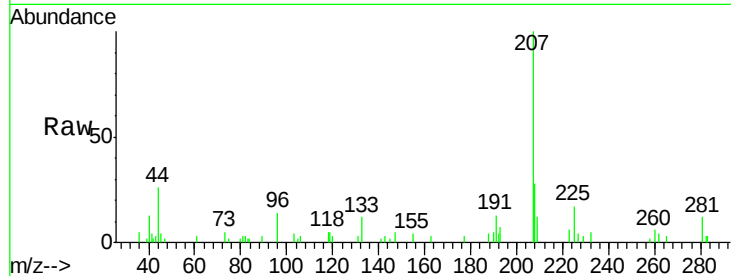
Tot Ion:225 Resp: 2026

Ion Ratio Lower Upper

225 100

223 52.1 30.9 92.7

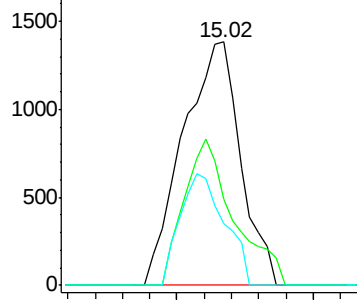
227 35.8 31.8 95.4



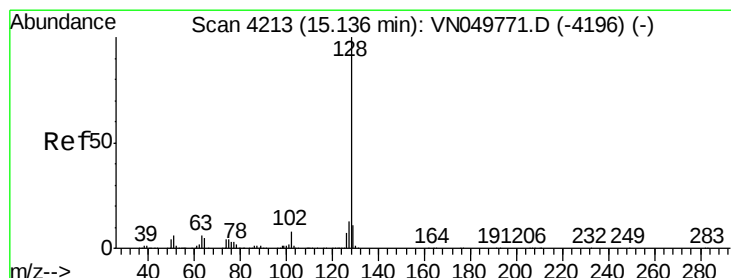
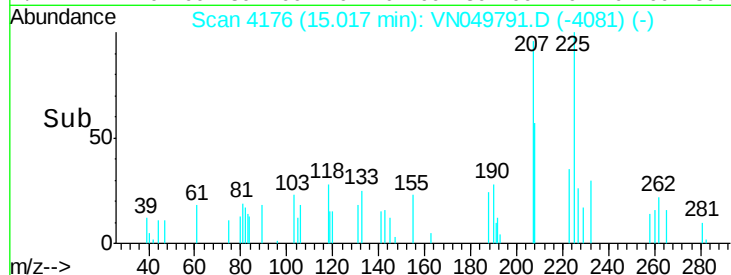
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 4.17 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049791.D

Acq: 13 Jul 2018 12:40

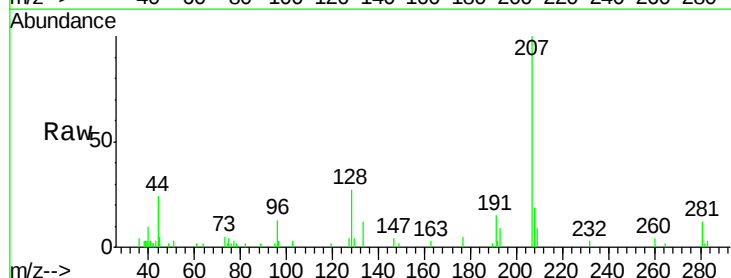
Tgt Ion:128 Resp: 4062

Ion Ratio Lower Upper

128 100

127 11.7 10.4 15.6

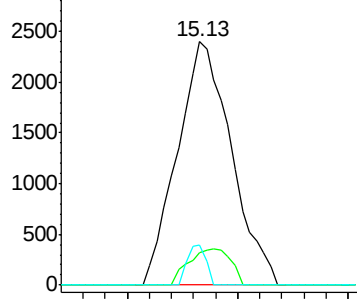
129 5.8 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->

