

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071218\
 Data File : VN049779.D
 Acq On : 12 Jul 2018 19:44
 Operator : MD\SY
 Sample : J3762-09 MDL 0.2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Manual Integrations
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 7/13/2018 1:35:25 PM

Quant Time: Jul 13 04:38:21 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	1058645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1685548	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1454329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	552606	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	668016	54.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.48%	
35) Dibromofluoromethane	7.59	113	618984	48.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.44%	
50) Toluene-d8	10.09	98	1893454	43.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.08%	
62) 4-Bromofluorobenzene	12.40	95	574739	37.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	2696	Below Cal		97
3) Chloromethane	2.06	50	5740	Below Cal		93
4) Vinyl Chloride	2.18	62	3977	Below Cal		97
5) Bromomethane	2.57	94	5720	Below Cal		92
7) Trichlorofluoromethane	3.02	101	4705	0.23 ug/l		97
8) Diethyl Ether	3.41	74	1500m	0.21 ug/l		
9) 1,1,2-Trichlorotrifluoroet	3.76	101	3432	0.26 ug/l #		76
12) 1,1-Dichloroethene	3.73	96	2905m	0.25 ug/l		
14) Allyl chloride	4.33	41	4766m	0.26 ug/l		
15) Acrylonitrile	5.00	53	3868m	0.94 ug/l		
16) Acetone	3.82	43	5904	Below Cal		93
18) Methyl Acetate	4.34	43	14223	0.65 ug/l #		68
20) Methylene Chloride	4.55	84	6447	Below Cal #		81
21) trans-1,2-Dichloroethene	5.03	96	2812m	0.22 ug/l		
23) Vinyl Acetate	5.91	43	21105	0.82 ug/l		95
25) 2-Butanone	6.83	43	6019m	1.25 ug/l		
26) 2,2-Dichloropropane	6.83	77	4465	0.22 ug/l #		74
29) Tetrahydrofuran	7.22	42	4222	1.40 ug/l #		54
30) Chloroform	7.38	83	5525	0.22 ug/l		95
31) Cyclohexane	7.67	56	22888	0.94 ug/l #		1
32) 1,1,1-Trichloroethane	7.58	97	4524m	0.21 ug/l		
36) 1,1-Dichloropropene	7.79	75	4436	0.23 ug/l #		72
38) Carbon Tetrachloride	7.77	117	5568m	0.27 ug/l		
41) Methacrylonitrile	7.20	41	1737m	0.27 ug/l		
42) 1,2-Dichloroethane	8.12	62	4010	0.21 ug/l		76
44) Trichloroethene	8.84	130	3428	0.22 ug/l		94
46) Dibromomethane	9.20	93	1977	0.21 ug/l #		50
48) Methyl methacrylate	9.21	41	2349	0.23 ug/l #		69
49) 1,4-Dioxane	9.21	88	495	3.66 ug/l #		40
51) 4-Methyl-2-Pentanone	9.99	43	8144	0.73 ug/l		94
55) 1,1,2-Trichloroethane	10.57	97	5034	Below Cal #		62
57) 1,3-Dichloropropane	10.71	76	4503	0.20 ug/l #		71
58) 2-Chloroethyl Vinyl ether	9.70	63	5594	0.74 ug/l		91
59) 2-Hexanone	10.76	43	7256	0.97 ug/l		89

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 MDL-WATER-03-QT3-2018

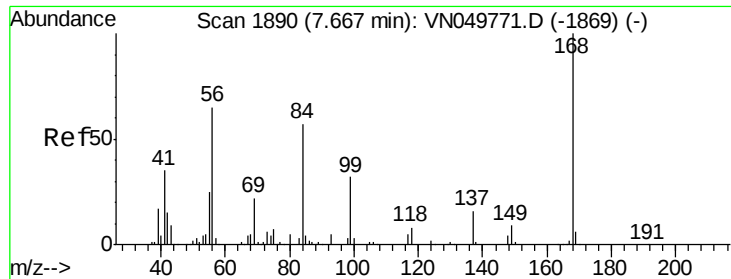
Manual Integrations
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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) Tetrachloroethene	10.64	164	3103	0.23	ug/l	90
65) Chlorobenzene	11.44	112	8538	0.23	ug/l #	88
68) m/p-Xylenes	11.63	106	7763	0.33	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.51	83	2870	Below	Cal #	93
76) 1,2,3-Trichloropropane	12.56	75	2303m	0.23	ug/l	
77) Bromobenzene	12.53	156	3398	0.28	ug/l	95
78) n-propylbenzene	12.59	91	10676	0.21	ug/l	100
79) 2-Chlorotoluene	12.68	91	7125	0.22	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	7579	0.21	ug/l	97
82) 4-Chlorotoluene	12.78	91	7019	0.22	ug/l	99
83) tert-Butylbenzene	12.99	119	6857	0.21	ug/l	96
87) 1,3-Dichlorobenzene	13.29	146	4984	0.24	ug/l	89
88) 1,4-Dichlorobenzene	13.37	146	6157m	0.30	ug/l	
90) Hexachloroethane	13.88	117	2299	Below	Cal	63
91) 1,2-Dichlorobenzene	13.66	146	4692	0.23	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.27	75	228	Below	Cal #	56
93) 1,2,4-Trichlorobenzene	14.91	180	2296	3.08	ug/l	94
94) Hexachlorobutadiene	15.01	225	1280	Below	Cal	79
95) Naphthalene	15.14	128	5068	4.22	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	2683	0.27	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 1058645

Ion Ratio Lower Upper

168 100

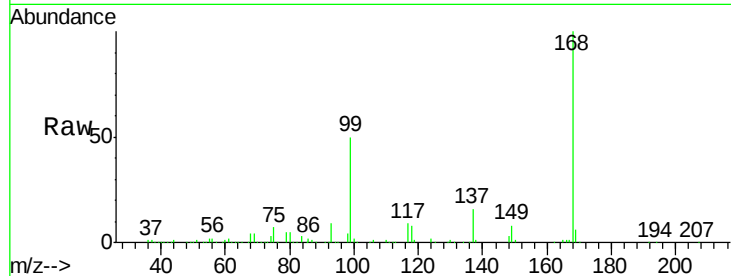
99 49.5 40.6 61.0

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

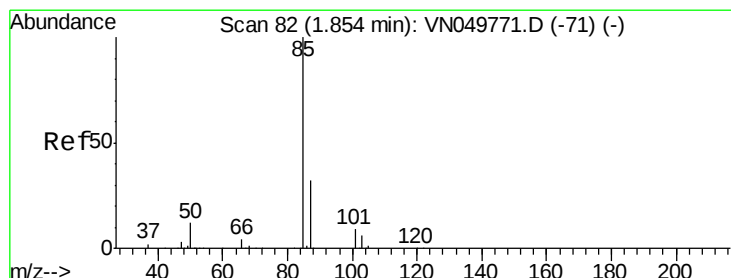
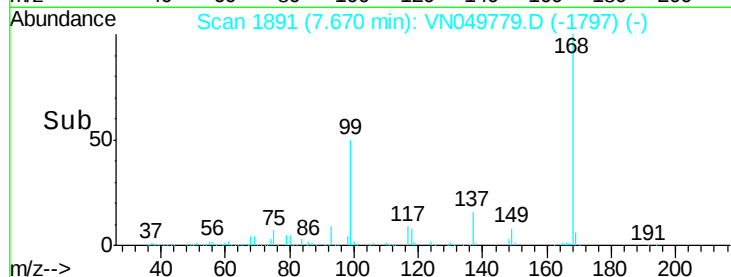
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049779.D

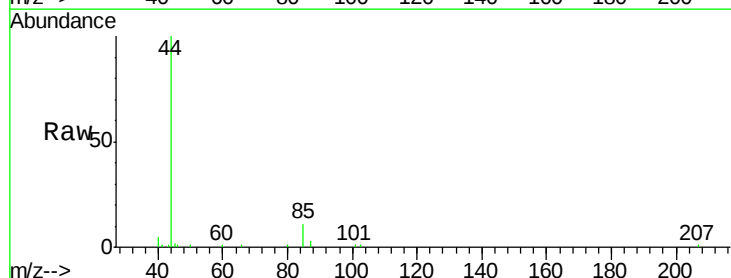
Acq: 12 Jul 2018 19:44

Tgt Ion: 85 Resp: 2696

Ion Ratio Lower Upper

85 100

87 32.3 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

2500

2000

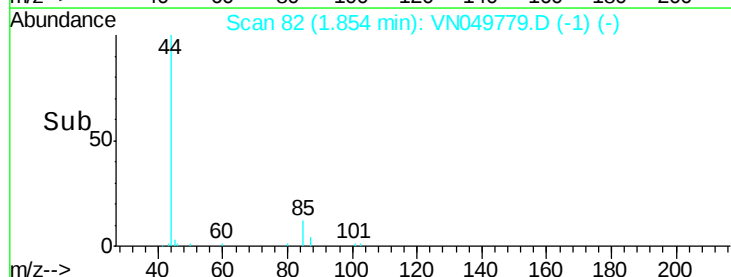
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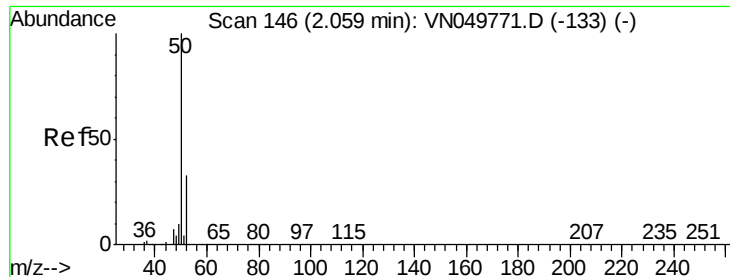
1000

500

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 50 Resp: 5740

Ion Ratio Lower Upper

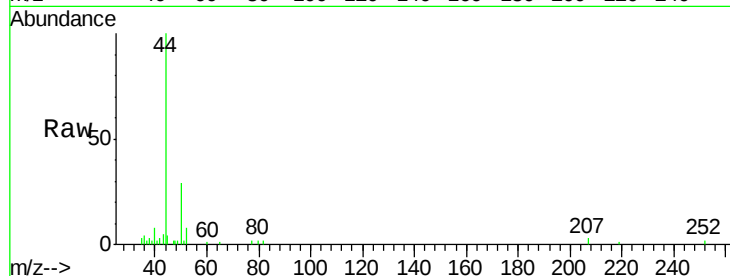
50 100

52 28.8 26.1 39.1

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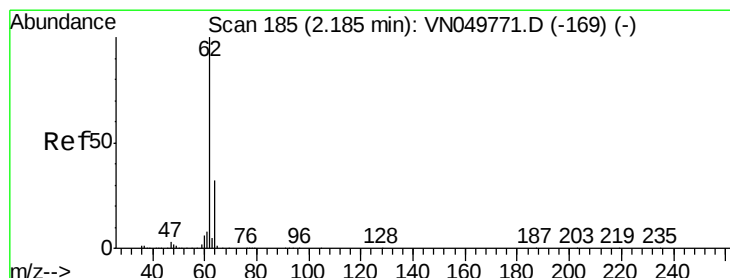
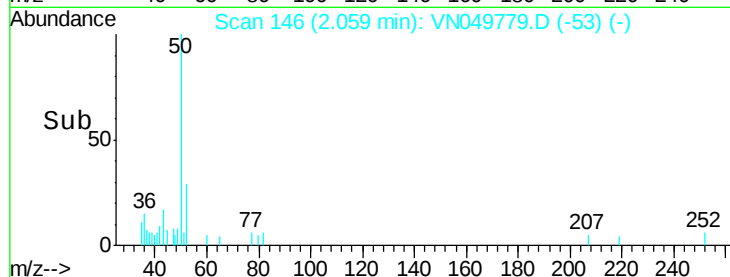
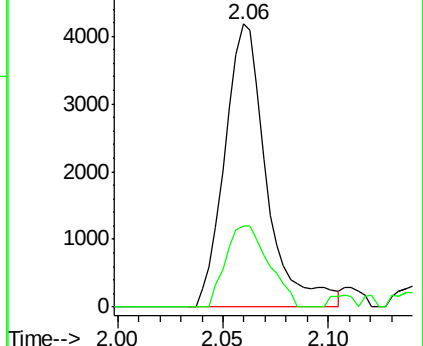
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049779.D

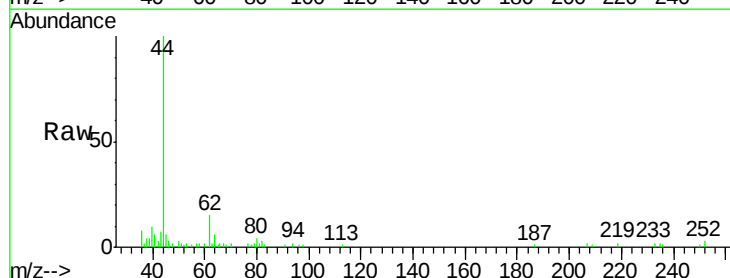
Acq: 12 Jul 2018 19:44

Tgt Ion: 62 Resp: 3977

Ion Ratio Lower Upper

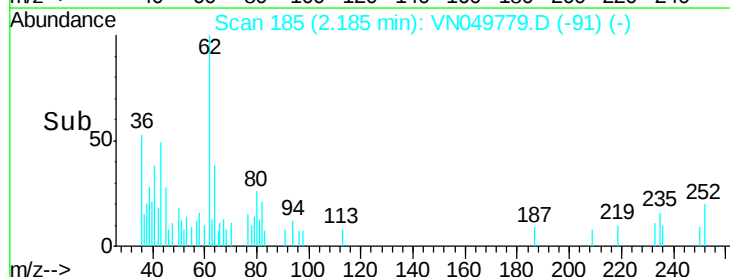
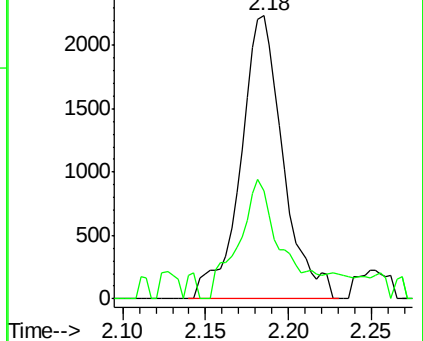
62 100

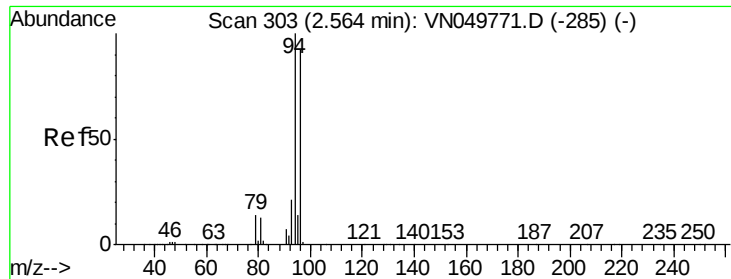
64 29.9 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 94 Resp: 5720

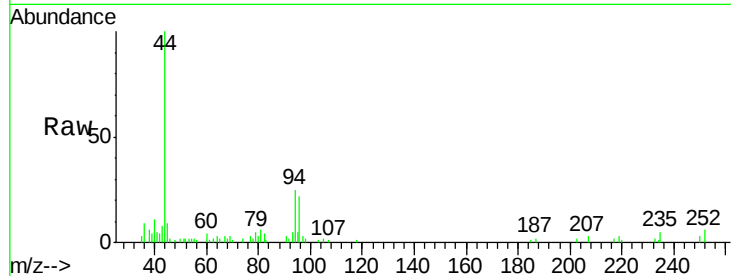
Ion Ratio Lower Upper

94 100

96 87.2 75.7 113.5

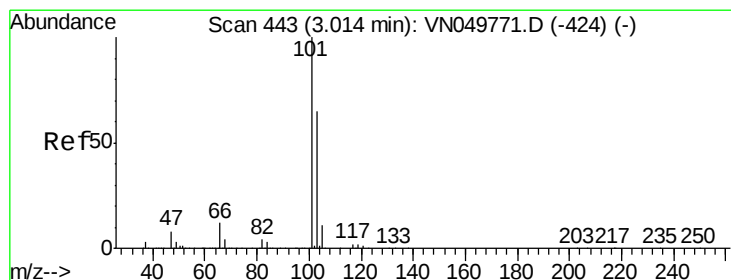
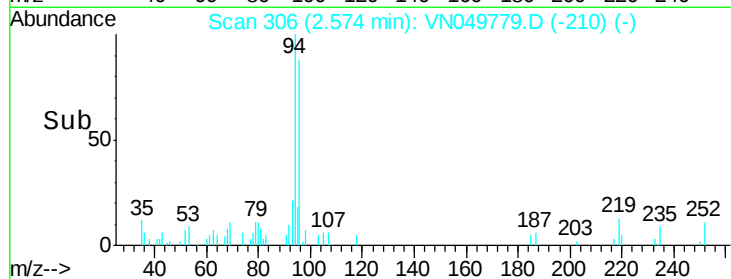
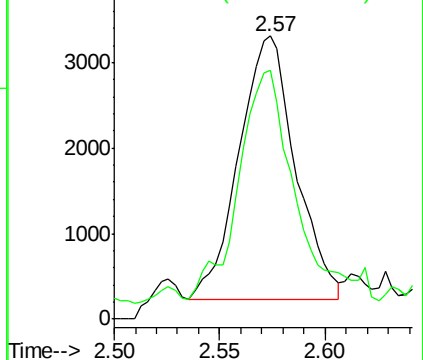
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#7

Trichlorofluoromethane

Concen: 0.23 ug/l

RT: 3.02 min Scan# 444

Delta R.T. 0.00 min

Lab File: VN049779.D

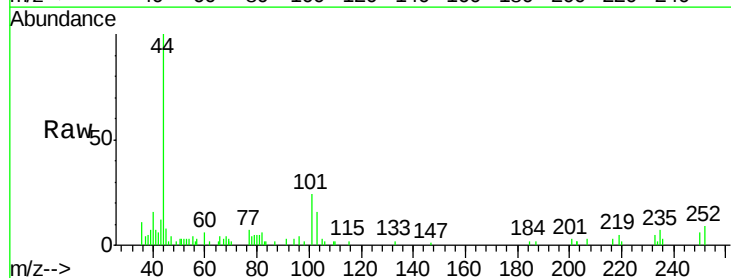
Acq: 12 Jul 2018 19:44

Tgt Ion: 101 Resp: 4705

Ion Ratio Lower Upper

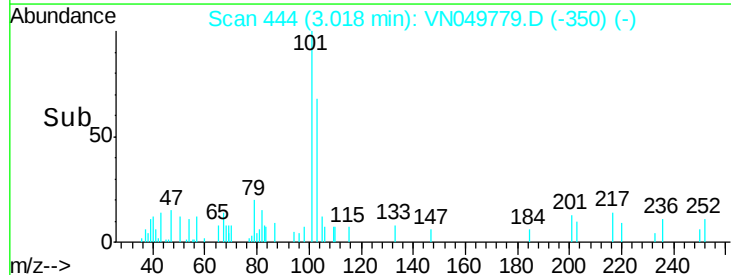
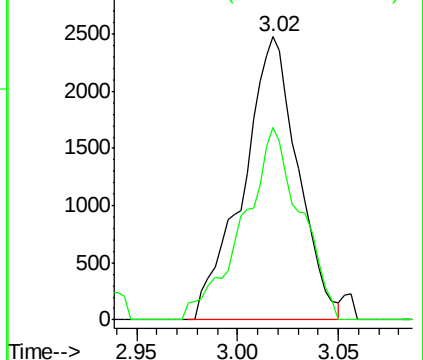
101 100

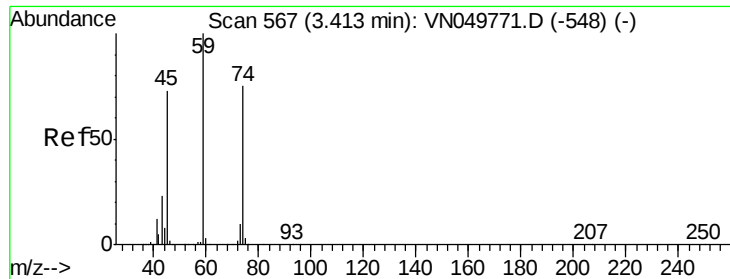
103 68.1 52.8 79.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#8

Diethyl Ether

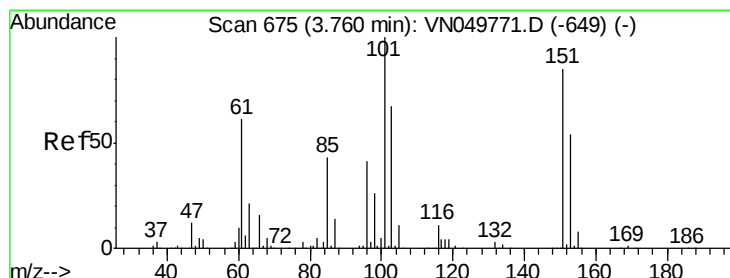
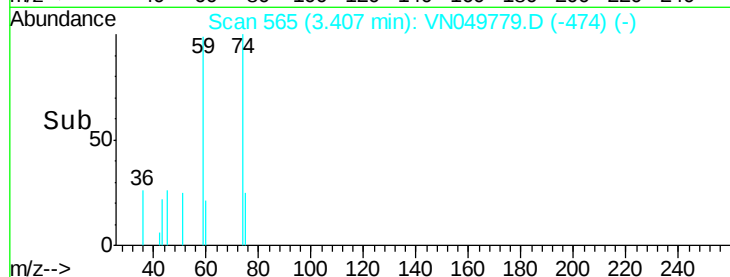
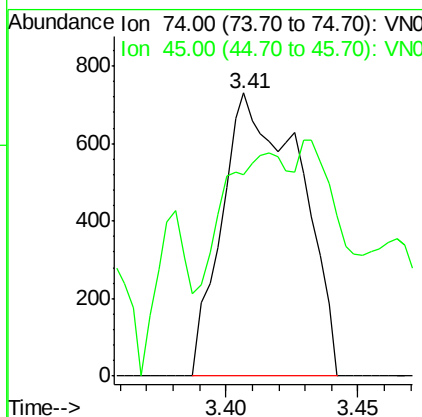
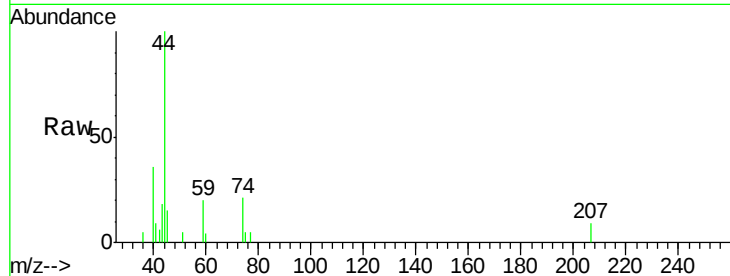
Concen: 0.21 ug/l m
 RT: 3.41 min Scan# 565
 Delta R.T. -0.01 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion: 74 Resp: 1500
 Ion Ratio Lower Upper
 74 100
 45 42.7 48.4 145.2#

Manual Integrations
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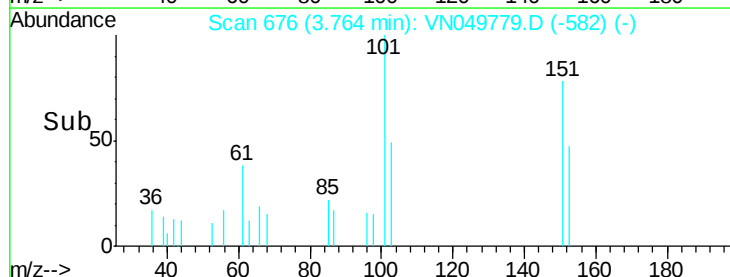
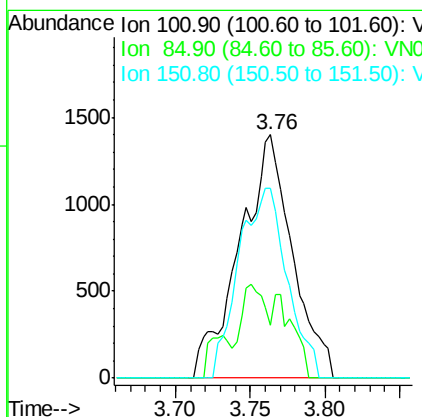
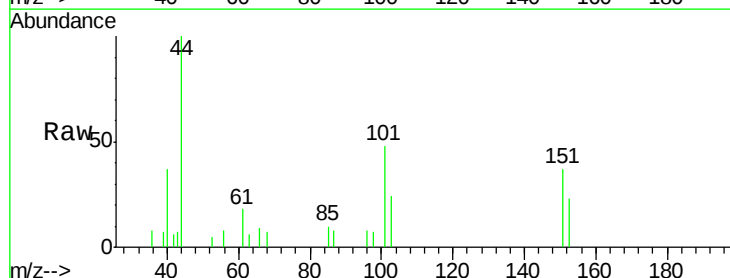


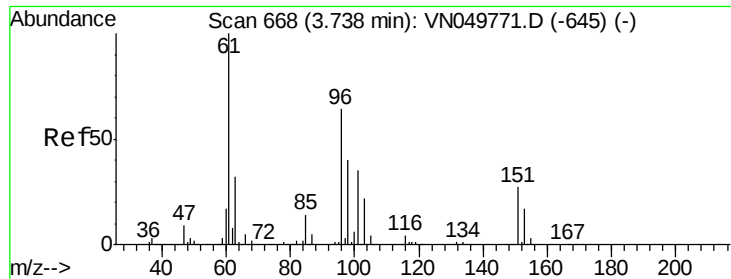
#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.26 ug/l
 RT: 3.76 min Scan# 676
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion: 101 Resp: 3432
 Ion Ratio Lower Upper
 101 100
 85 12.9 34.4 51.6#
 151 71.4 66.2 99.4





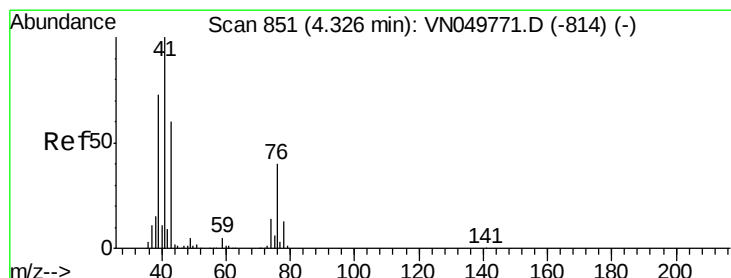
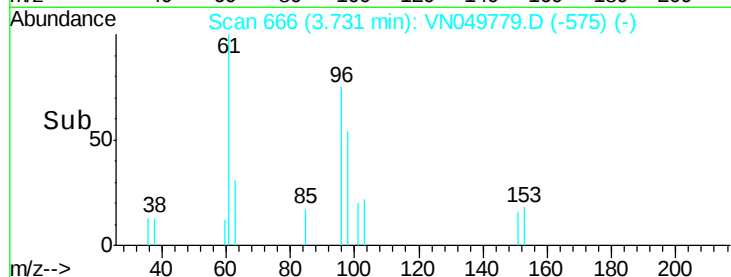
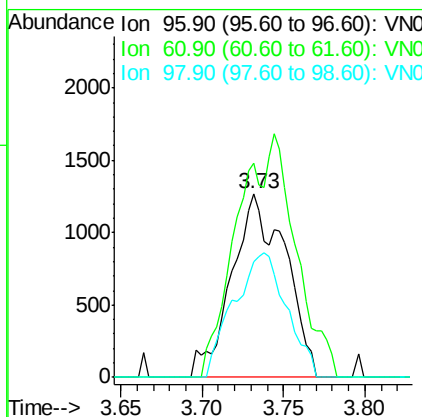
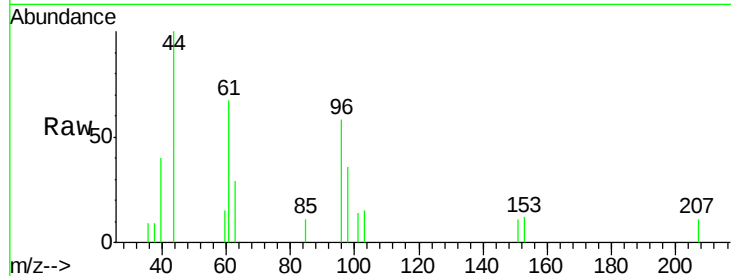
#12
 1,1-Dichloroethene
 Concen: 0.25 ug/l m
 RT: 3.73 min Scan# 666
 Delta R.T. -0.01 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	116.1	126.5	189.7#
98	62.6	51.0	76.6

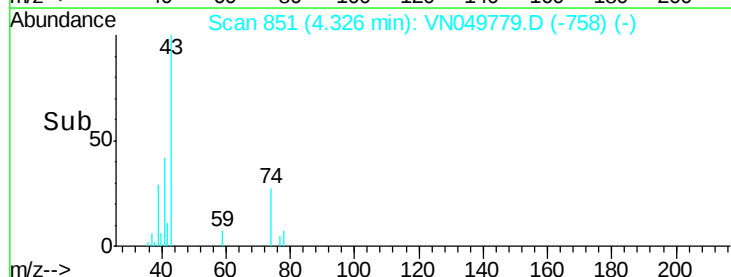
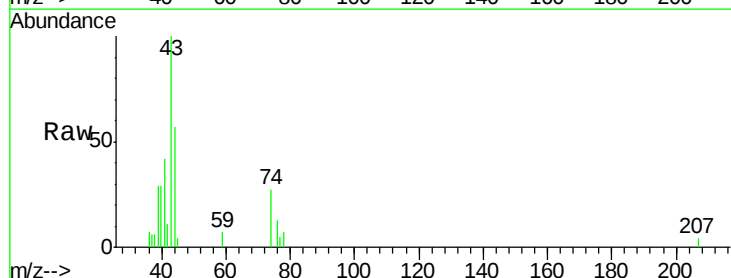
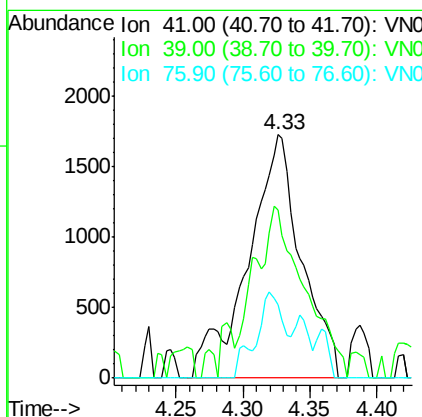
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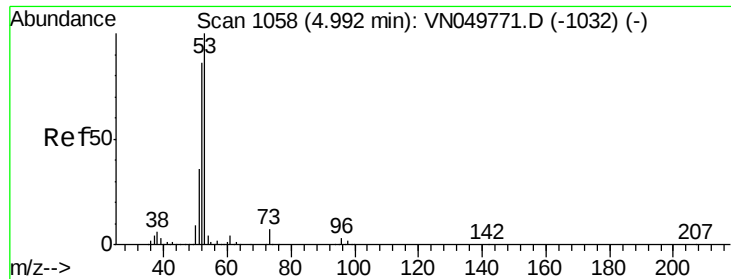
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#14
 Allyl chloride
 Concen: 0.26 ug/l m
 RT: 4.33 min Scan# 851
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
41	100		
39	50.7	53.2	79.8#
76	10.2	29.0	43.6#





#15

Acrylonitrile

Concen: 0.94 ug/l m

RT: 5.00 min Scan# 1061

Delta R.T. 0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

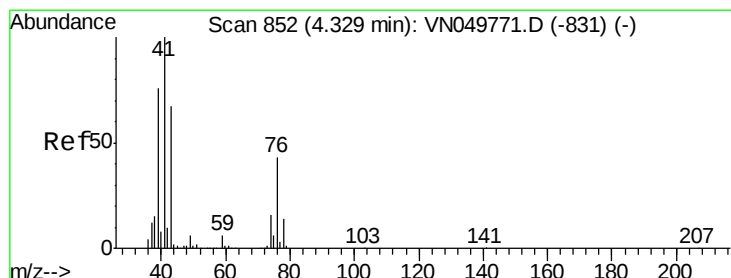
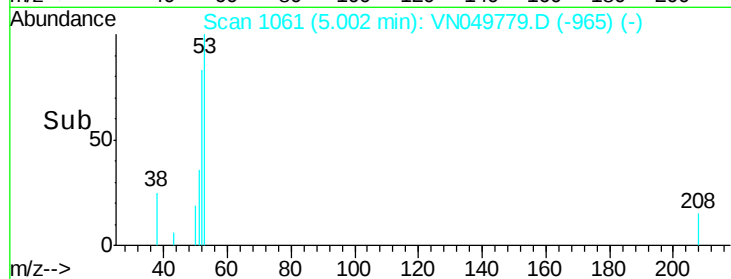
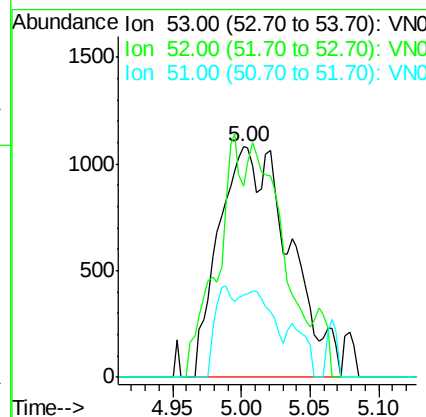
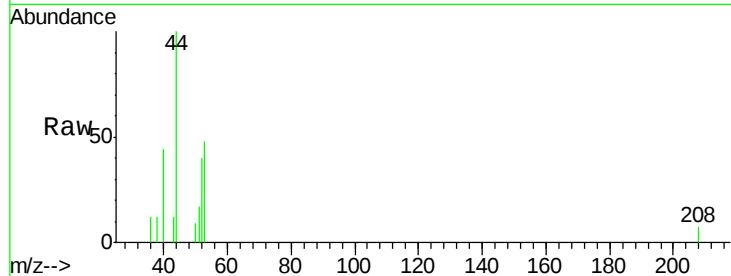
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	53	Resp:	3868
Ion	Ratio	Lower	Upper
53	100		
52	38.8	64.8	97.2#
51	10.7	28.9	43.3#

Manual Integrations
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#18

Methyl Acetate

Concen: 0.65 ug/l

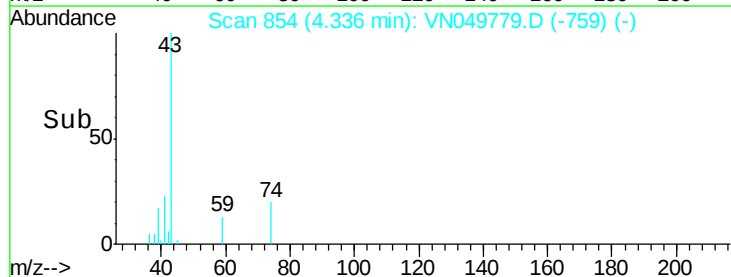
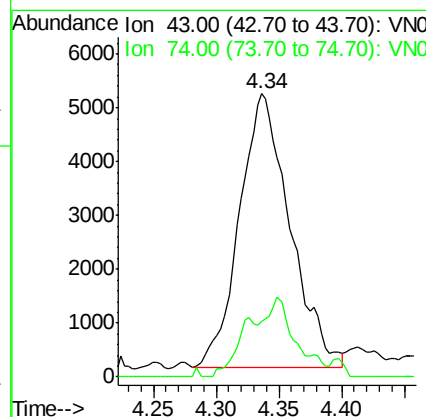
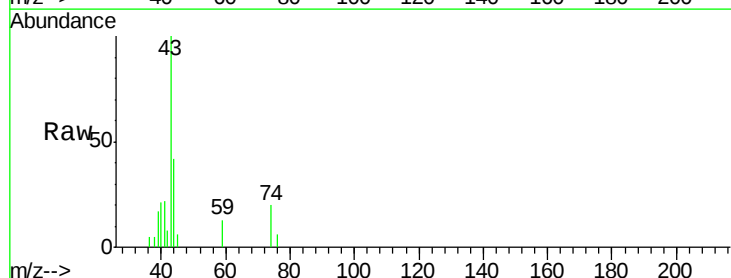
RT: 4.34 min Scan# 854

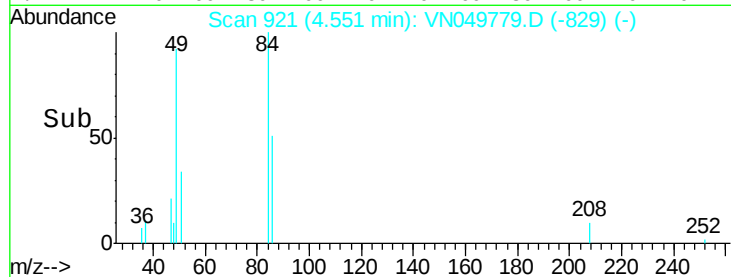
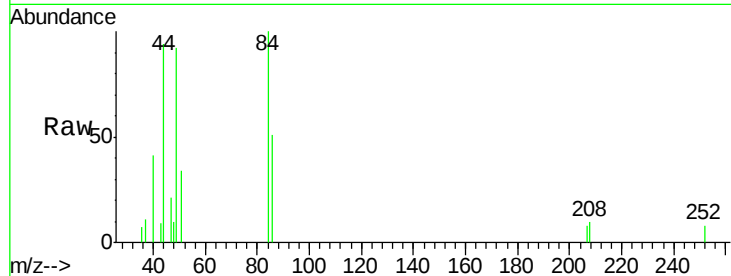
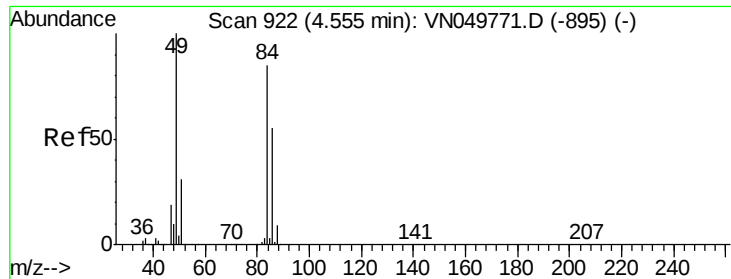
Delta R.T. 0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Tgt Ion:	43	Resp:	14223
Ion	Ratio	Lower	Upper
43	100		
74	9.0	19.8	29.8#





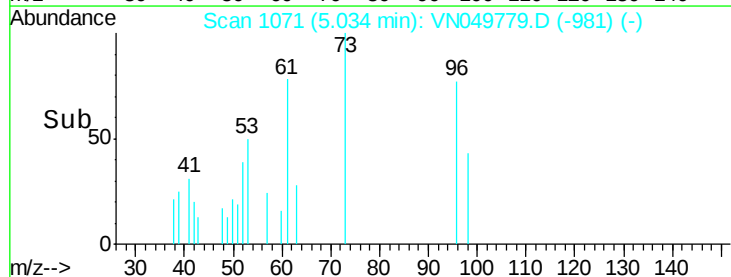
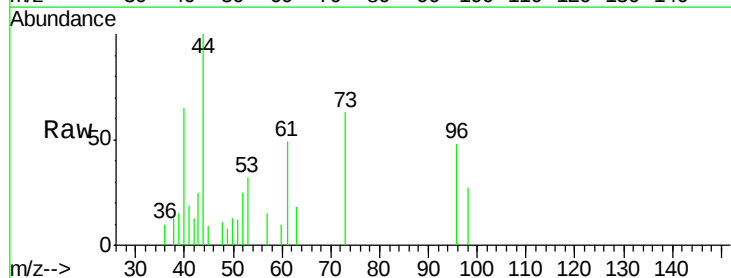
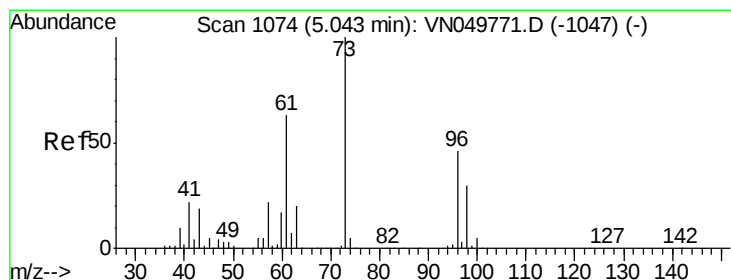
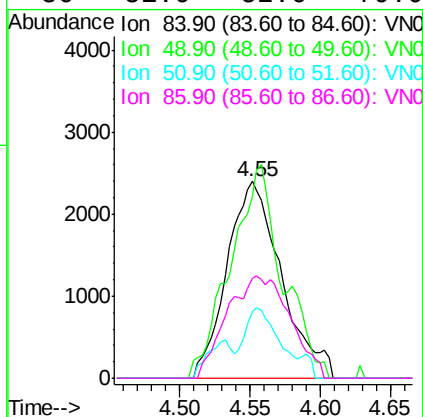
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tot Ion	Ratio	Lower	Upper
84	100		
49	92.4	95.4	143.2#
51	33.7	28.4	42.6
86	51.0	52.6	79.0#

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

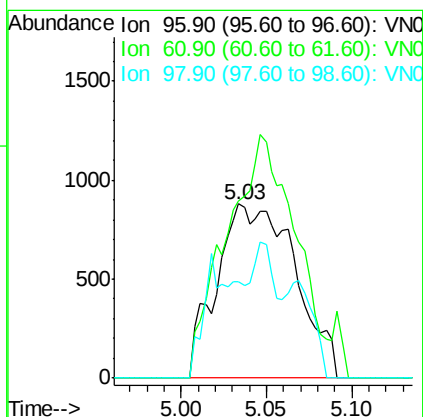
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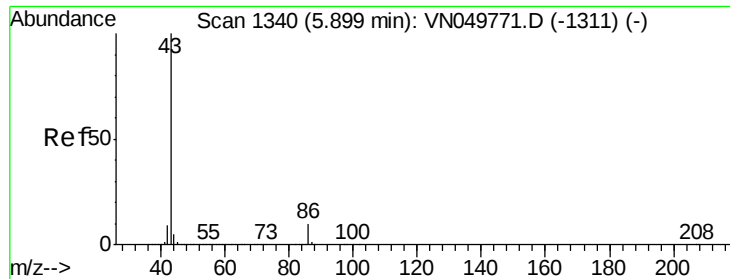
MMDadoda
7/13/2018 1:35:25 PM



#21
trans-1,2-Dichloroethene
Concen: 0.22 ug/l m
RT: 5.03 min Scan# 1071
Delta R.T. -0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	102.2	109.0	163.6#
98	55.7	51.1	76.7





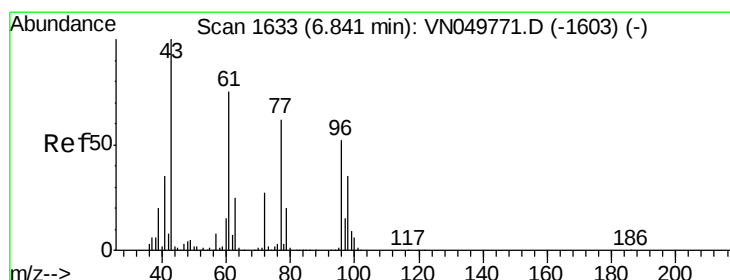
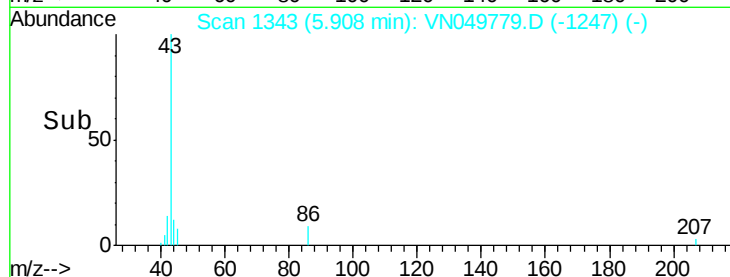
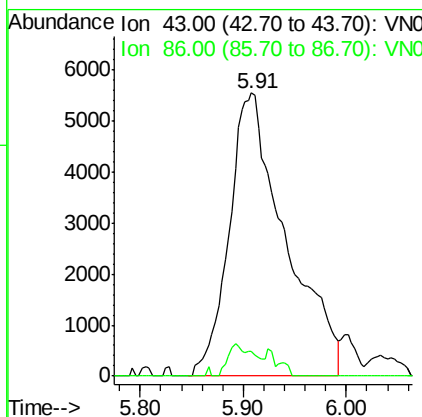
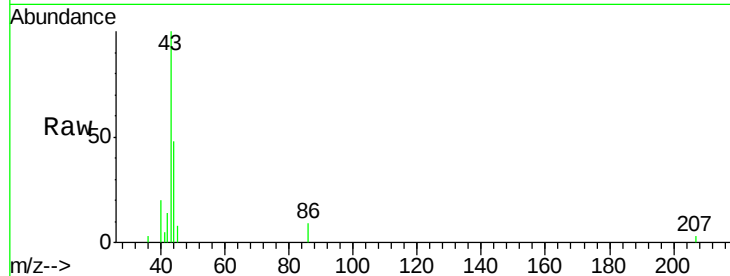
#23
 Vinyl Acetate
 Concen: 0.82 ug/l
 RT: 5.91 min Scan# 1343
 Delta R.T. 0.01 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion	43	Resp	21105
Ion Ratio	Lower	Upper	
43	100		
86	8.6	8.4	12.6

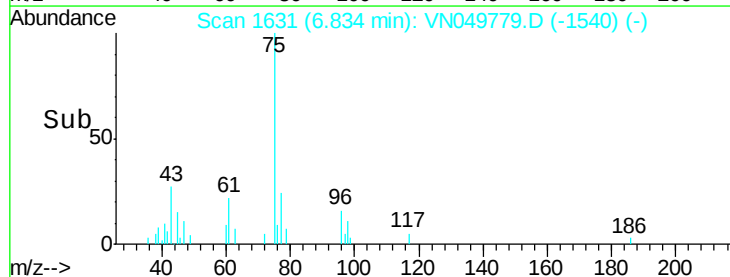
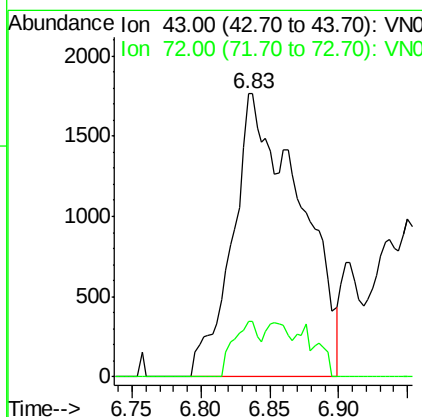
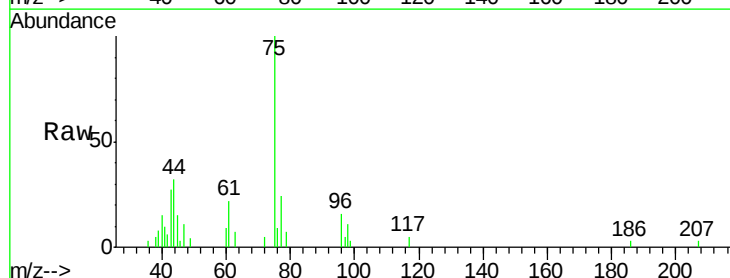
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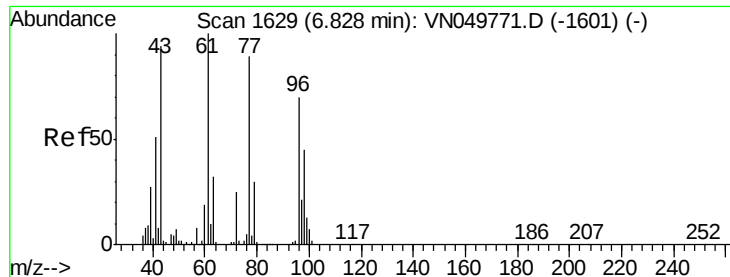
MMDadoda
 7/13/2018 1:35:25 PM



#25
 2-Butanone
 Concen: 1.25 ug/l m
 RT: 6.83 min Scan# 1631
 Delta R.T. -0.01 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion	43	Resp	6019
Ion Ratio	Lower	Upper	
43	100		
72	19.7	22.1	33.1#





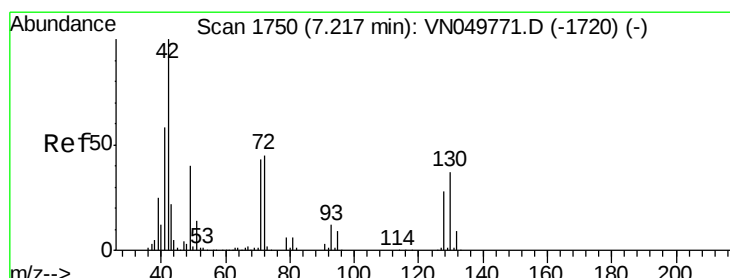
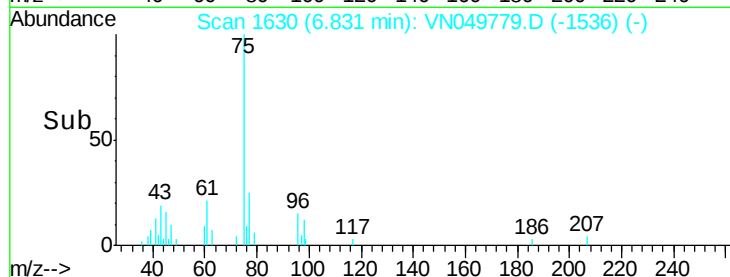
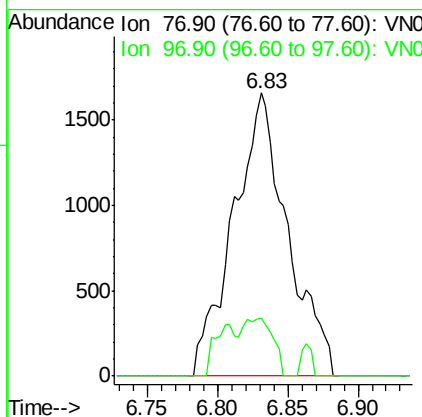
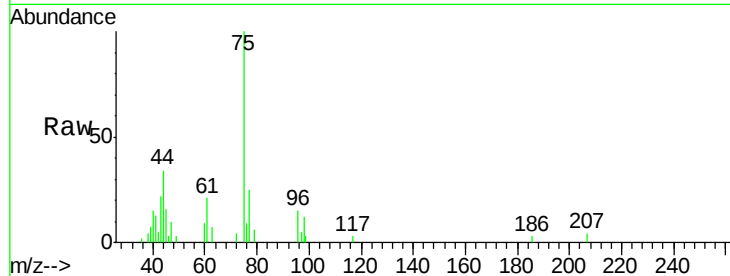
#26
 2,2-Dichloropropane
 Concen: 0.22 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion: 77 Resp: 4465
 Ion Ratio Lower Upper
 77 100
 97 11.1 11.9 35.5#

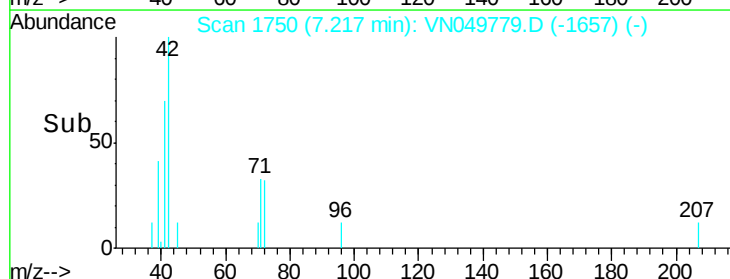
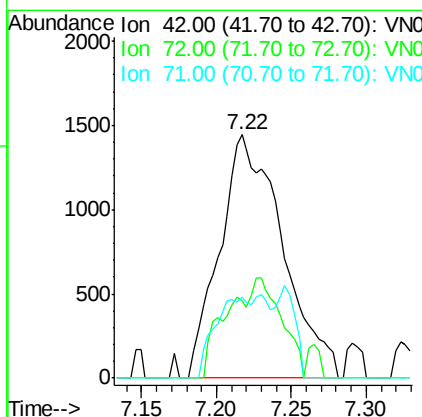
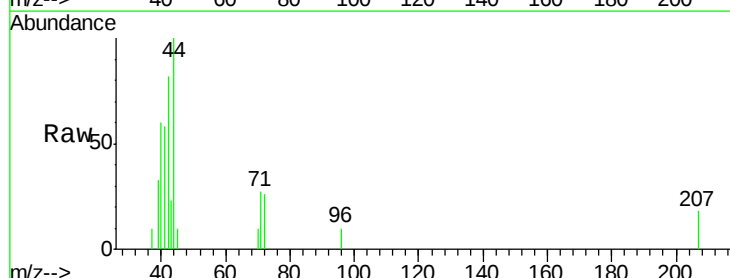
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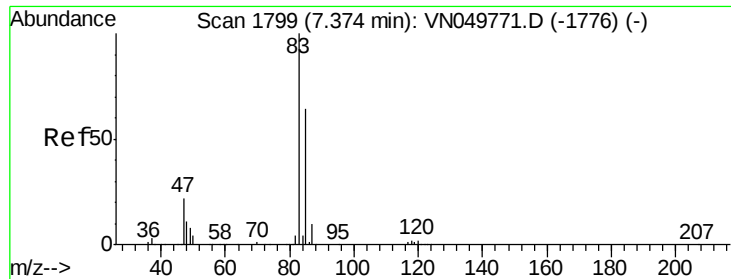
MMDadoda
 7/13/2018 1:35:25 PM



#29
 Tetrahydrofuran
 Concen: 1.40 ug/l
 RT: 7.22 min Scan# 1750
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion: 42 Resp: 4222
 Ion Ratio Lower Upper
 42 100
 72 15.6 35.6 53.4#
 71 12.8 34.0 51.0#





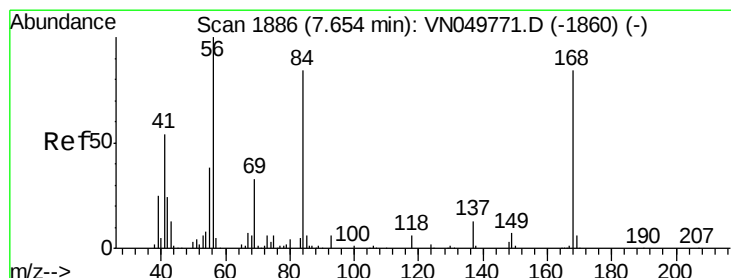
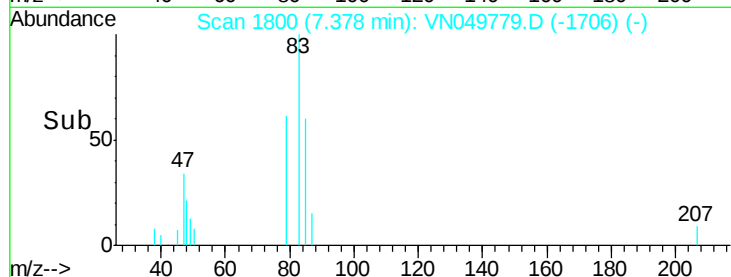
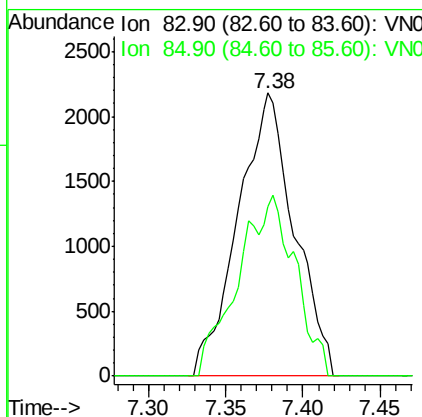
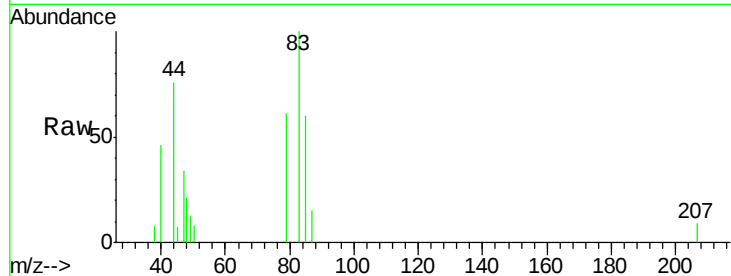
#30
Chloroform
Concen: 0.22 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

Tot Ion: 83 Resp: 5525
Ion Ratio Lower Upper
83 100
85 60.1 51.4 77.2

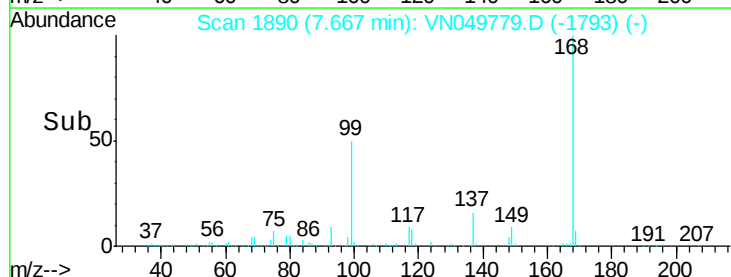
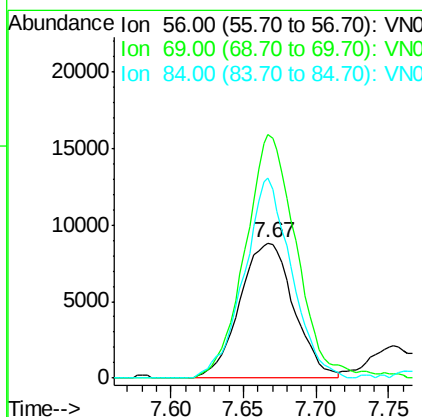
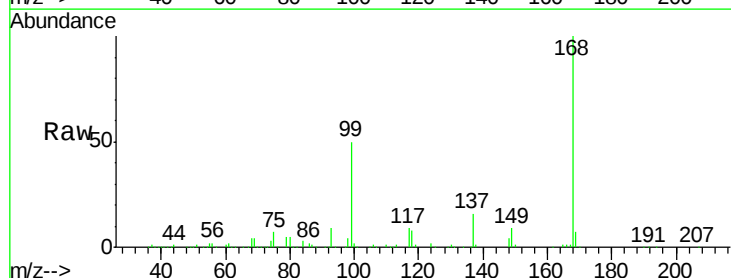
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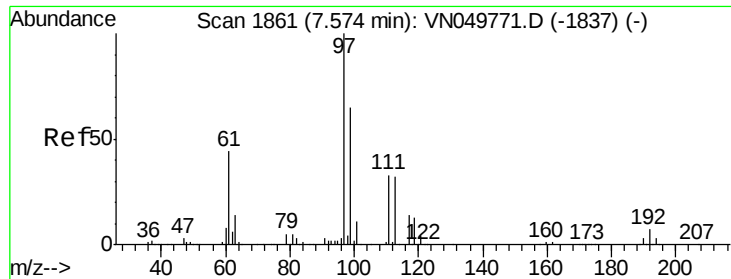
MMDadoda
7/13/2018 1:35:25 PM



#31
Cyclohexane
Concen: 0.94 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 56 Resp: 22888
Ion Ratio Lower Upper
56 100
69 180.5 26.6 40.0#
84 148.3 69.0 103.6#





#32

1,1,1-Trichloroethane

Concen: 0.21 ug/l m

RT: 7.58 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

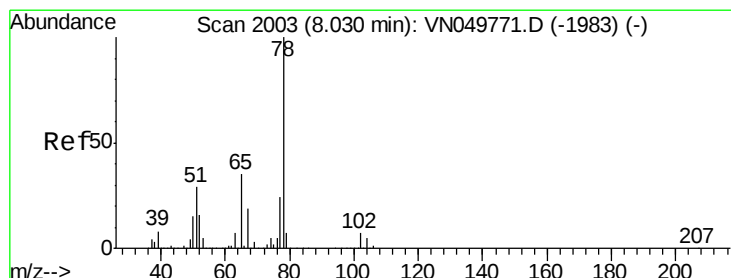
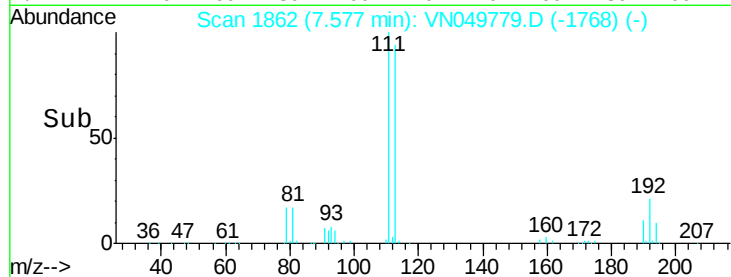
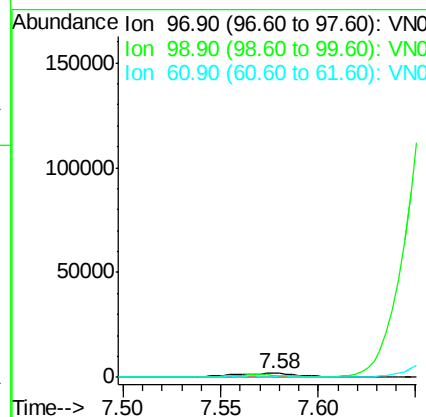
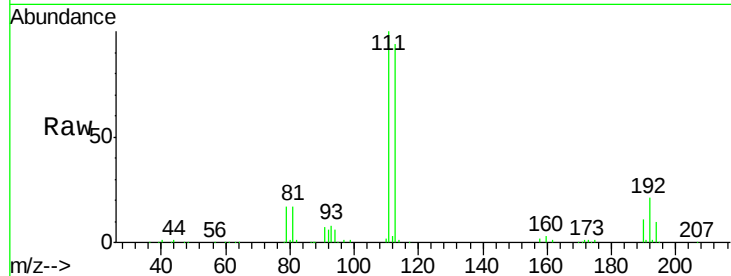
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	97	Resp:	4524
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.0	76.4#
61	16.9	35.5	53.3#

Manual Integrations
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#33

1,2-Dichloroethane-d4

Concen: 54.24 ug/l

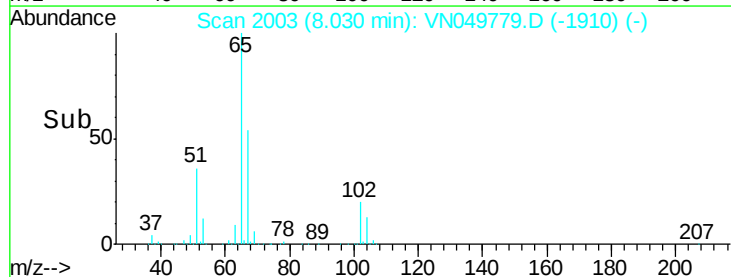
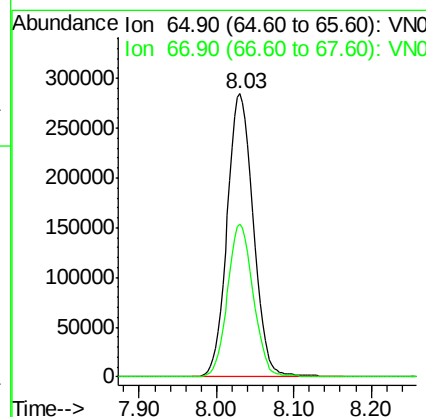
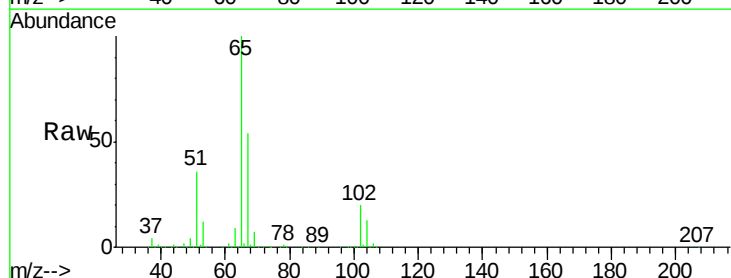
RT: 8.03 min Scan# 2003

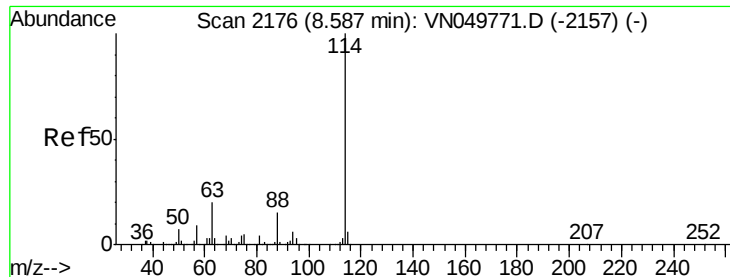
Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Tgt Ion:	65	Resp:	668016
Ion Ratio	Lower	Upper	
65	100		
67	53.1	0.0	107.2





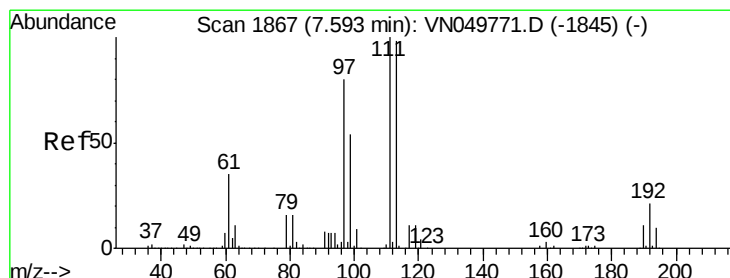
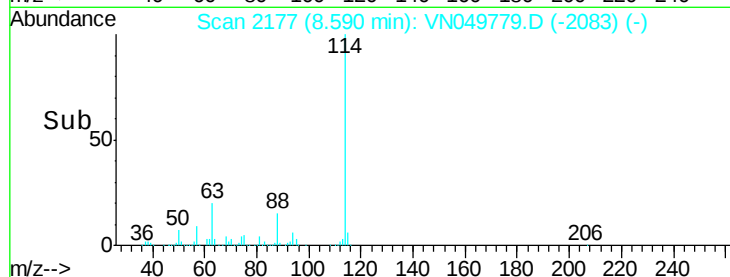
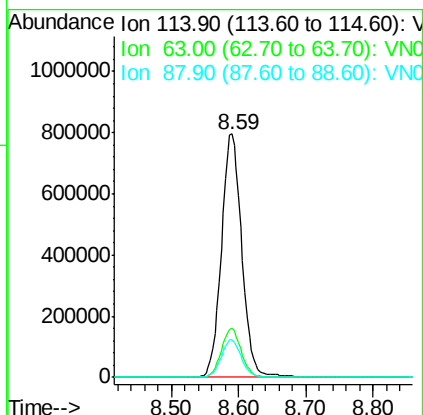
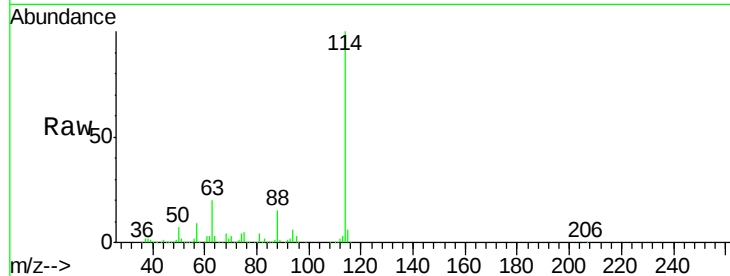
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	39.8
88	15.3	0.0	30.6

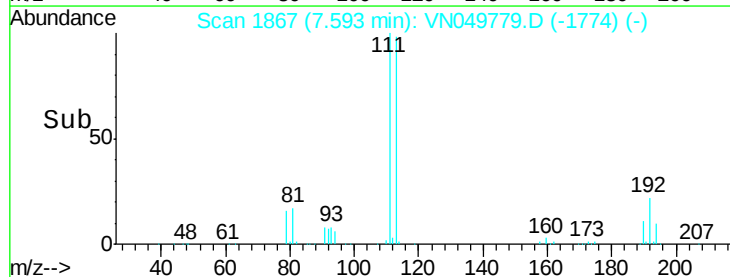
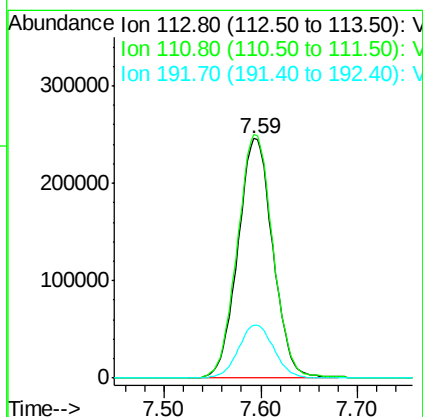
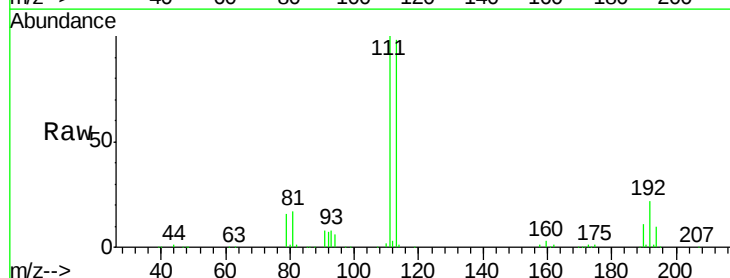
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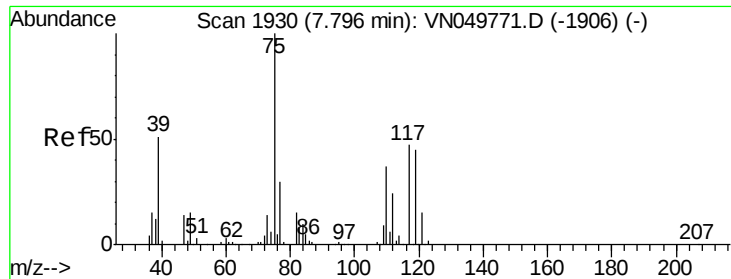
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#35
 Dibromofluoromethane
 Concen: 48.72 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.8	122.8
192	22.3	17.8	26.6





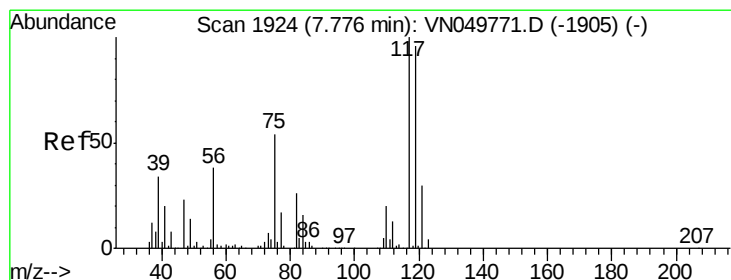
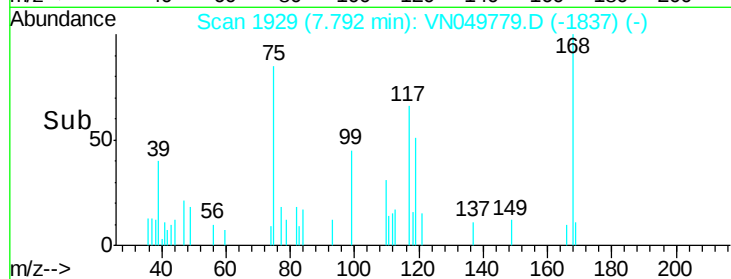
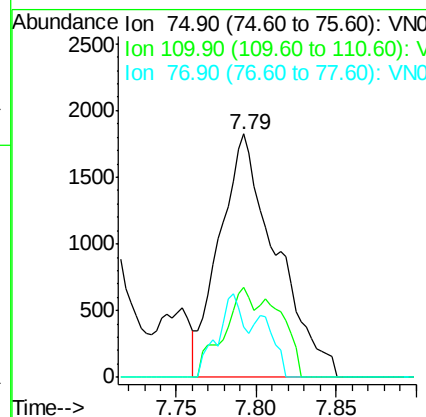
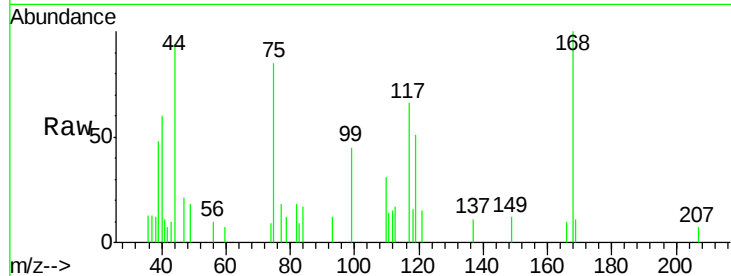
#36
 1,1-Dichloropropene
 Concen: 0.23 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Lower	Upper
75	100		
110	19.5	18.1	54.4
77	16.4	24.9	37.3#

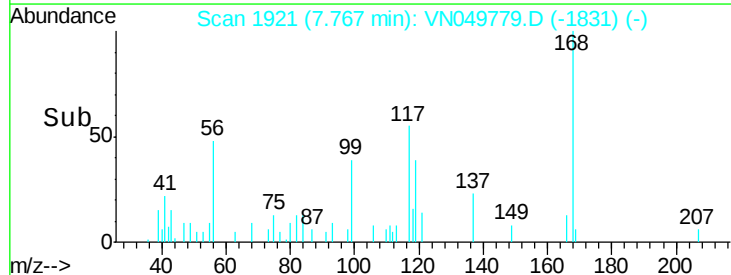
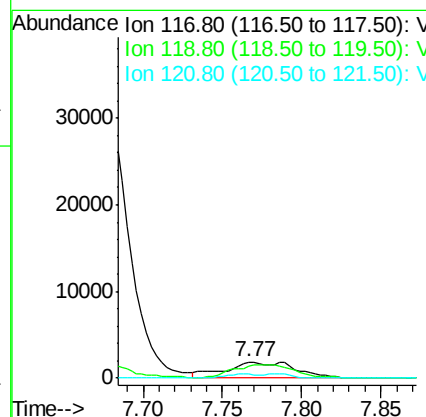
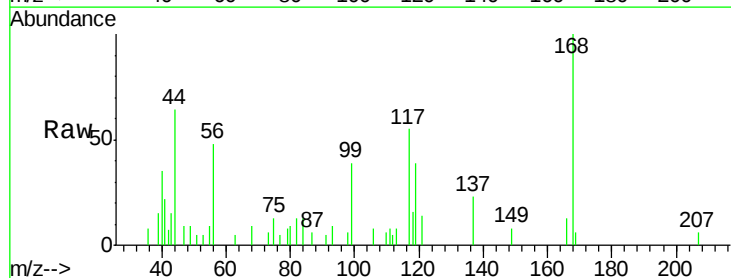
Manual Integrations
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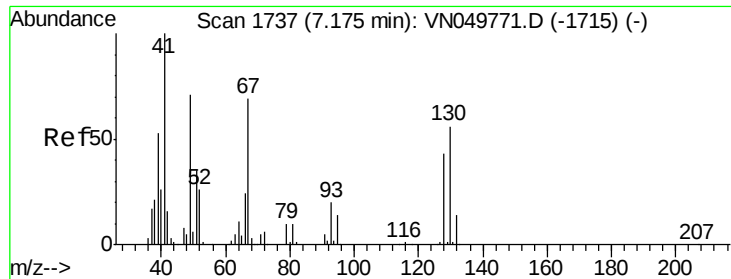
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#38
 Carbon Tetrachloride
 Concen: 0.27 ug/l m
 RT: 7.77 min Scan# 1921
 Delta R.T. -0.01 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	72.1	77.2	115.8#
121	25.8	25.0	37.6





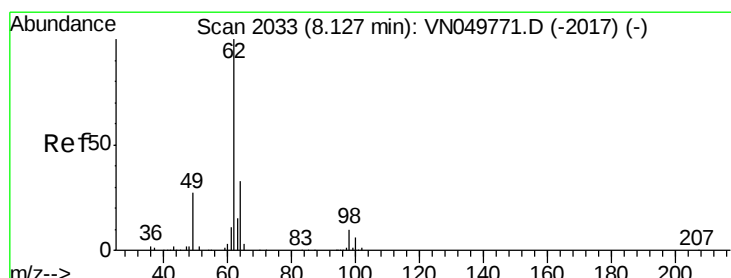
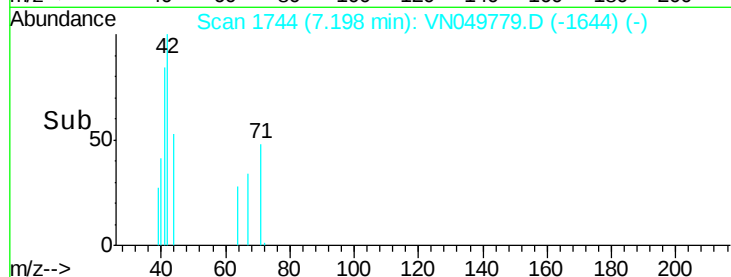
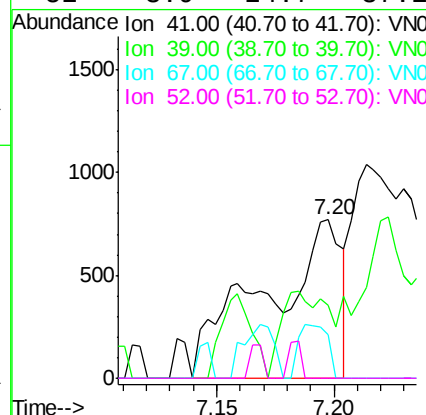
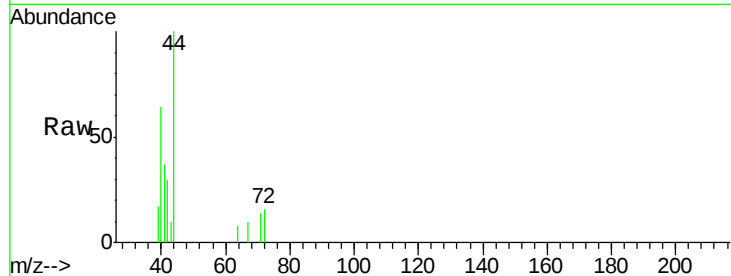
#41
Methacrylonitrile
Concen: 0.27 ug/l m
RT: 7.20 min Scan# 1744
Delta R.T. 0.02 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	33.7	45.4	68.2#
67	13.1	65.4	98.0#
52	3.9	24.7	37.1#

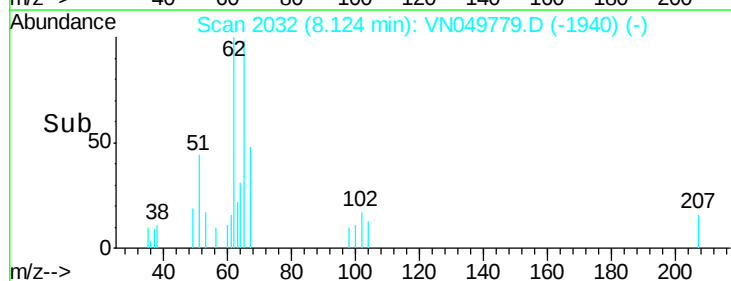
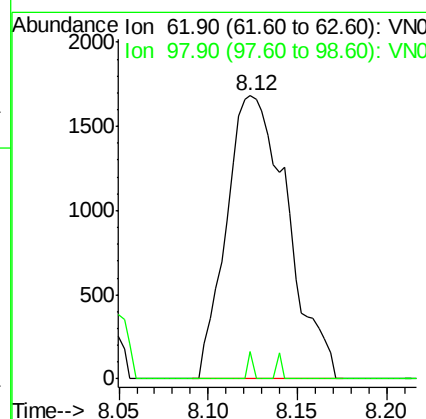
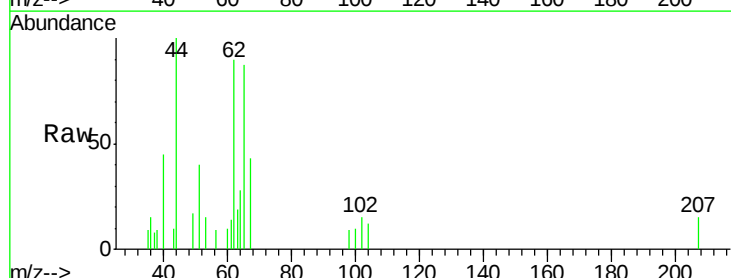
Manual Integrations
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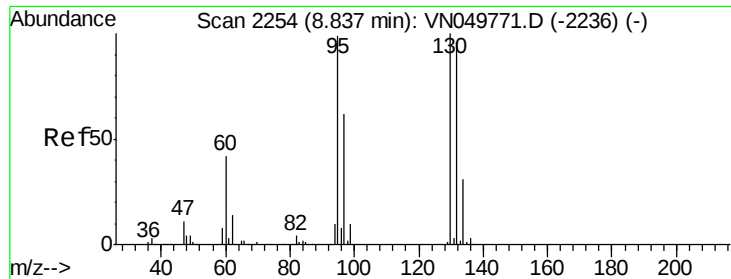
MMDadoda
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#42
1,2-Dichloroethane
Concen: 0.21 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
62	100		
98	0.8	0.0	19.0





#44

Trichloroethene

Concen: 0.22 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:130 Resp: 3428

Ion Ratio Lower Upper

130 100

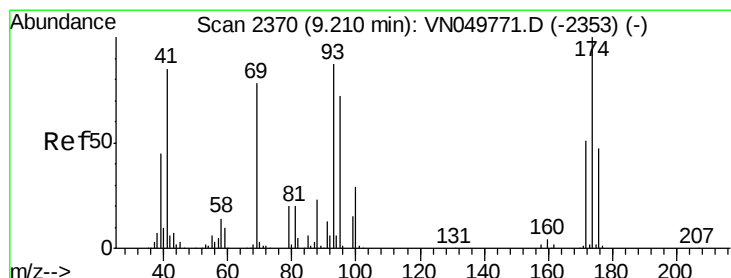
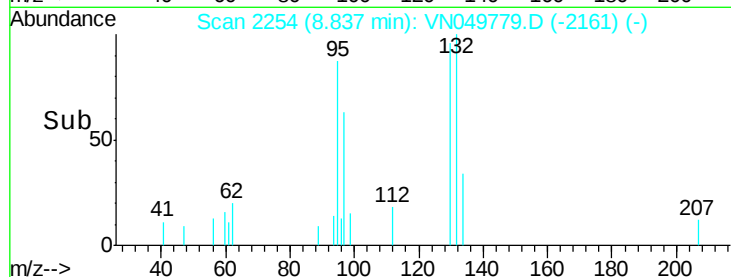
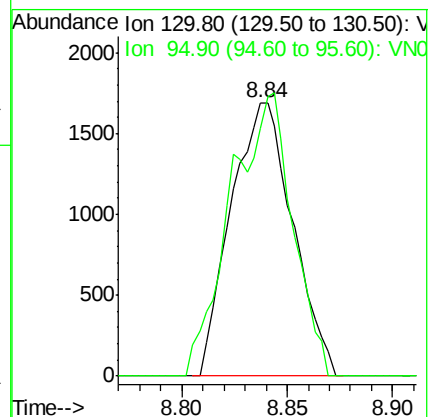
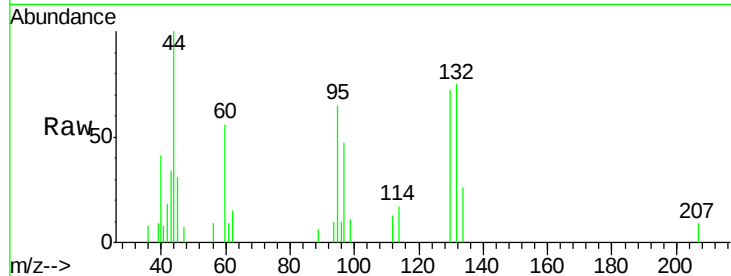
95 90.6 0.0 192.8

Manual Integrations

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#46

Dibromomethane

Concen: 0.21 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. -0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

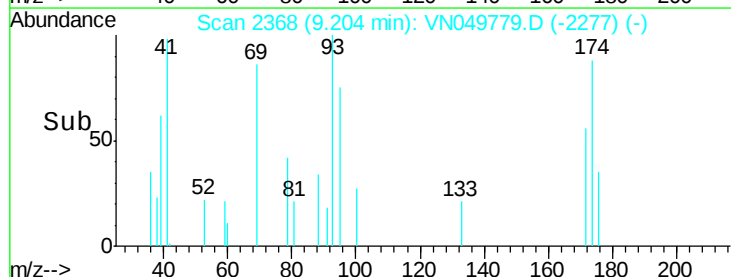
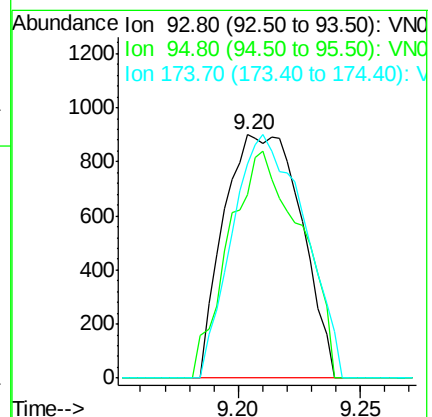
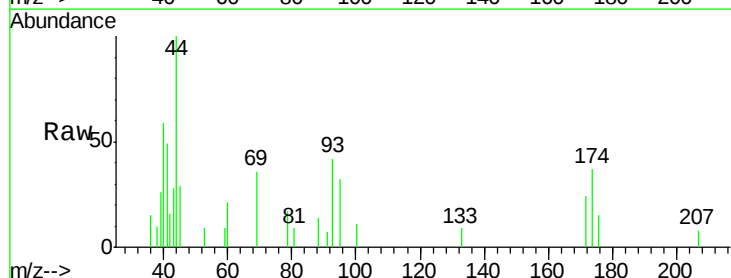
Tgt Ion: 93 Resp: 1977

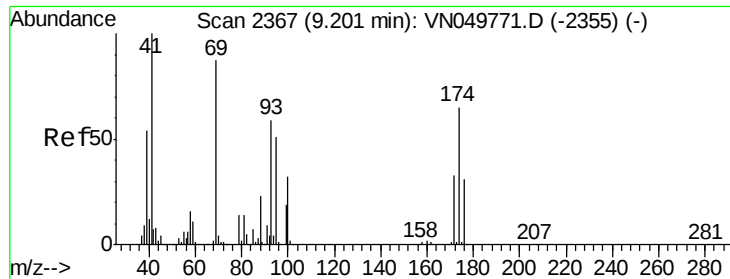
Ion Ratio Lower Upper

93 100

95 0.0 67.9 101.9#

174 93.8 89.4 134.0





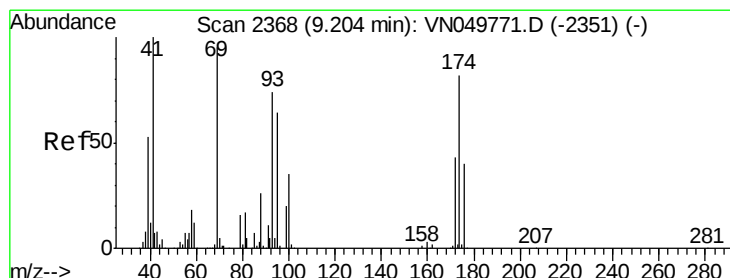
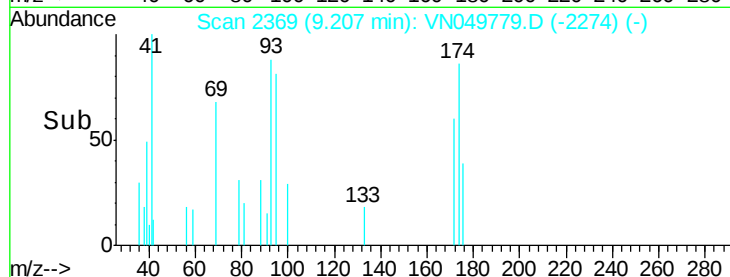
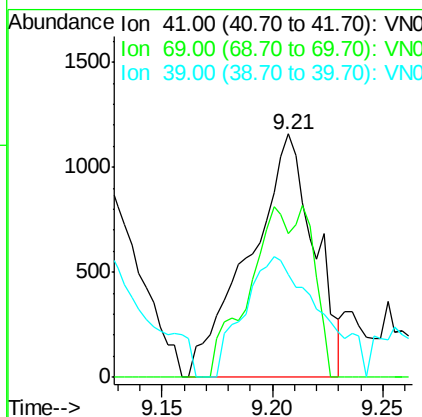
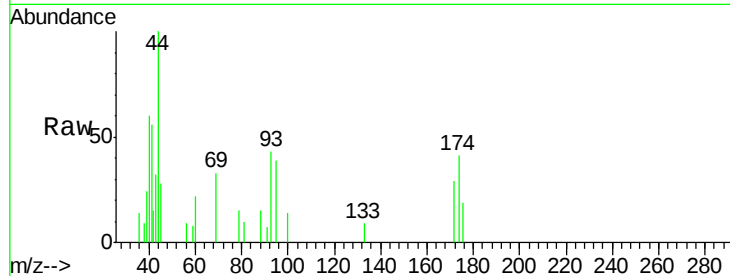
#48
Methvl methacrylate
Concen: 0.23 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Lower	Upper
41	100		
69	44.0	71.5	107.3#
39	58.0	44.7	67.1

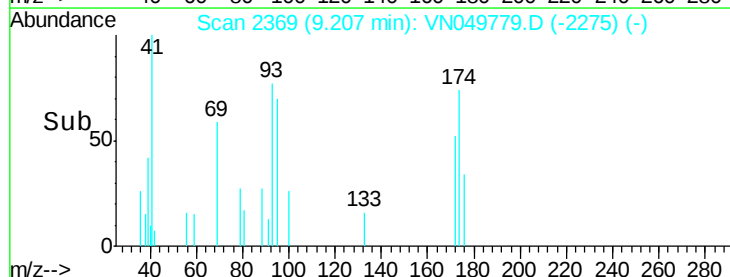
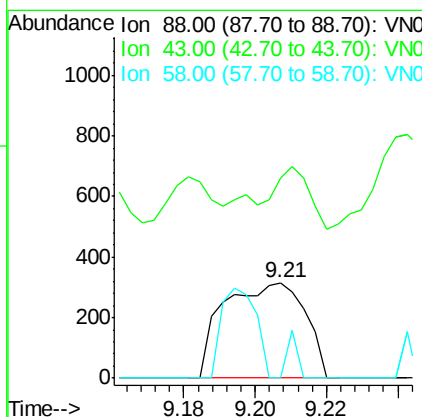
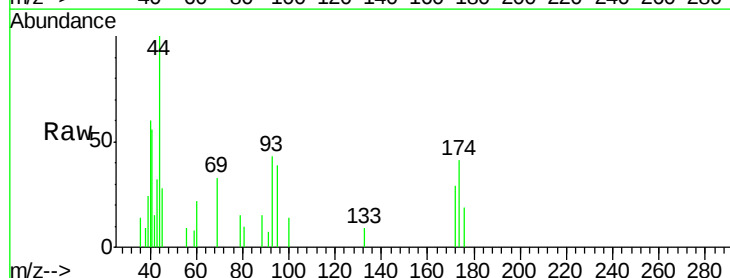
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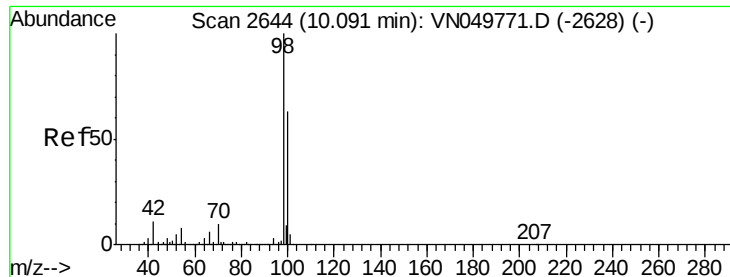
MMDadoda
7/13/2018 1:35:25 PM



#49
1,4-Dioxane
Concen: 3.66 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
88	100		
43	46.9	25.1	37.7#
58	6.1	52.5	78.7#





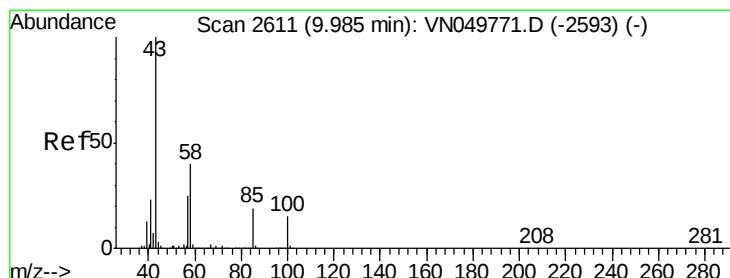
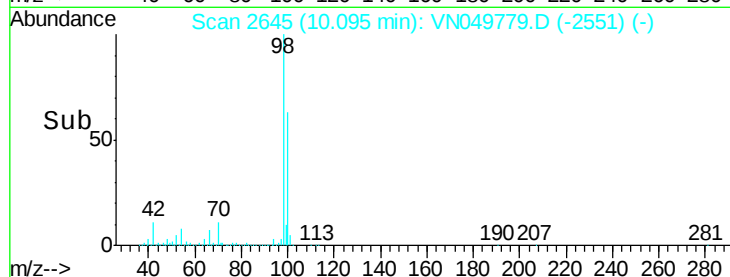
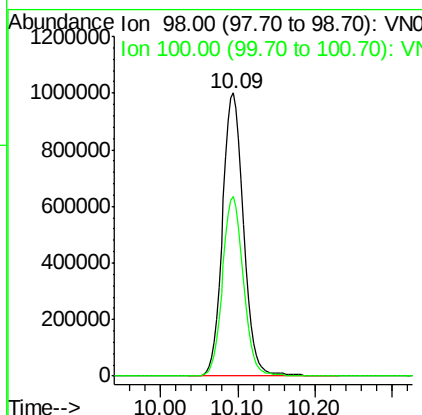
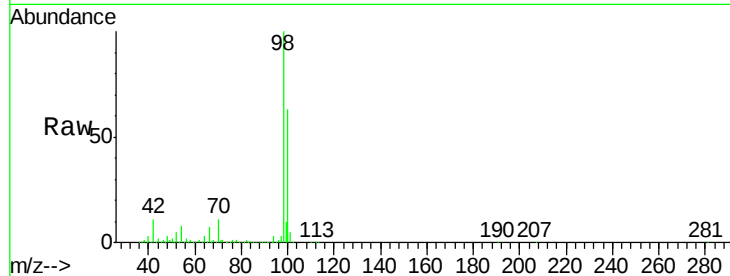
#50
Toluene-d8
Concen: 43.54 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

Tot Ion: 98 Resp: 1893454
Ion Ratio Lower Upper
98 100
100 62.8 51.7 77.5

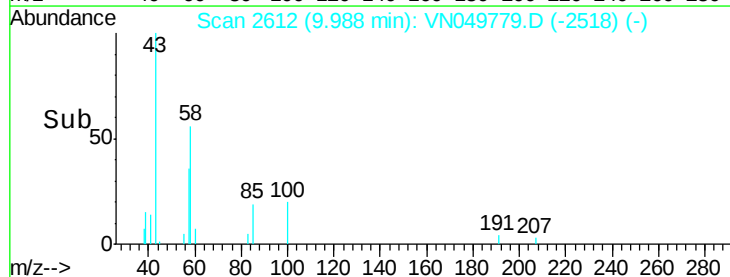
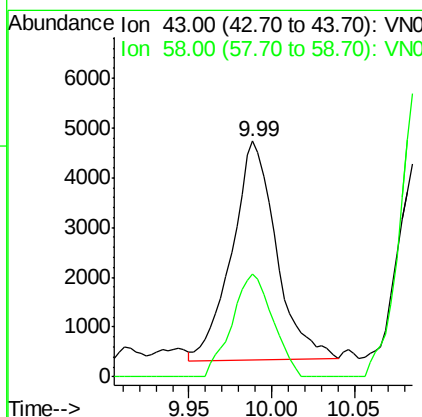
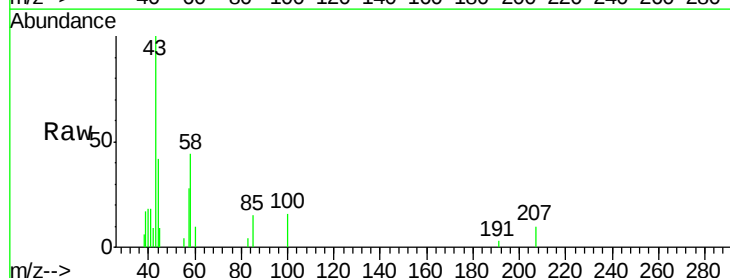
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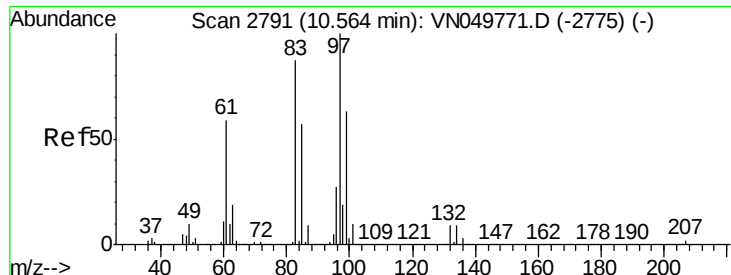
MMDadoda
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#51
4-Methyl-2-Pentanone
Concen: 0.73 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 43 Resp: 8144
Ion Ratio Lower Upper
43 100
58 43.2 31.8 47.8





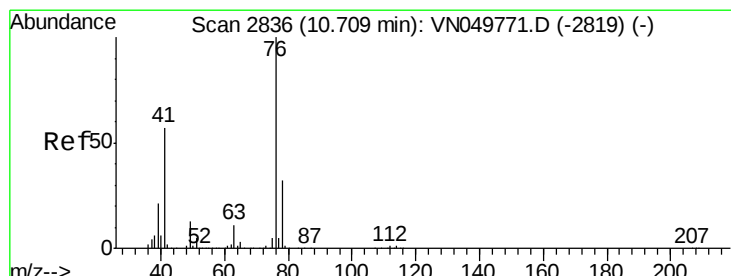
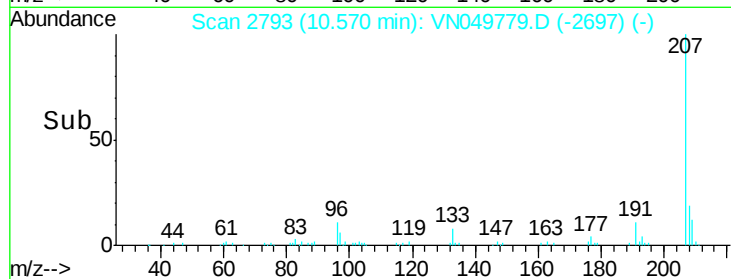
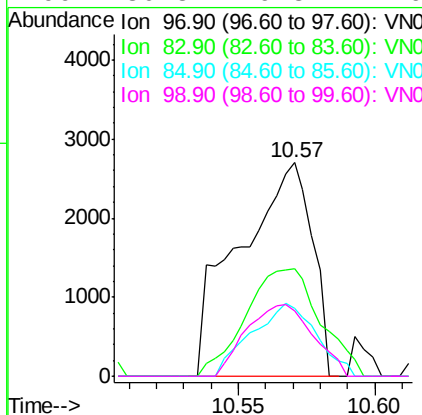
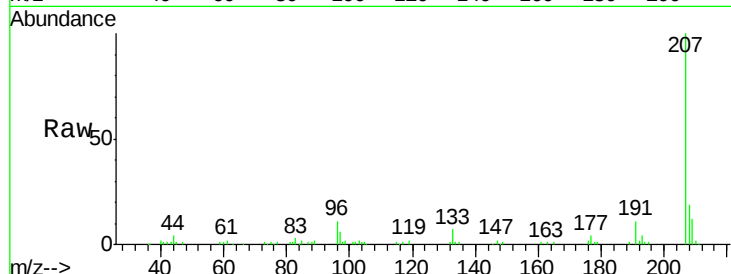
#55
 1,1,2-Trichloroethane
 Concen: Below Cal
 RT: 10.57 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Lower	Upper
97	100		
83	50.3	69.0	103.6#
85	31.5	44.9	67.3#
99	30.8	49.8	74.6#

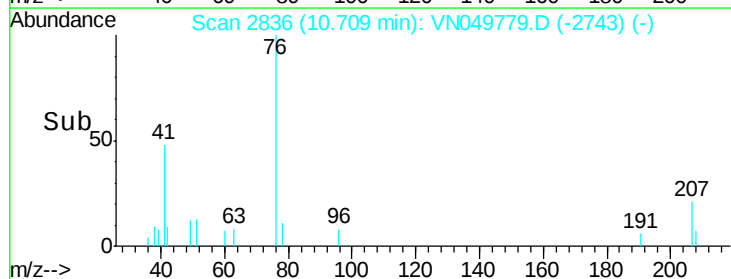
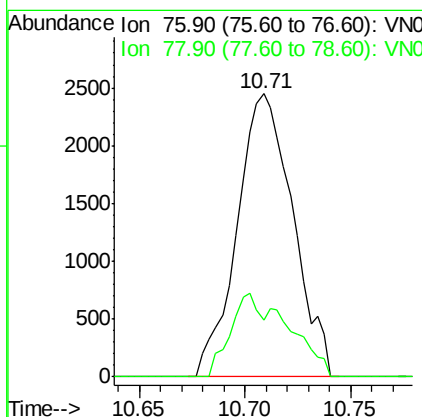
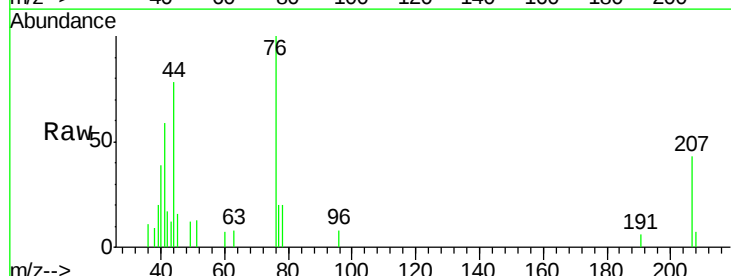
Manual Integrations
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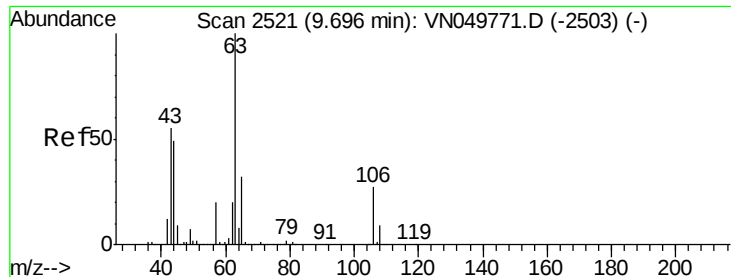
MMDadoda
 7/13/2018 1:35:25 PM



#57
 1,3-Dichloropropane
 Concen: 0.20 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
76	100		
78	16.3	25.8	38.8#





#58

2-Chloroethyl Vinyl ether

Concen: 0.74 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 63 Resp: 5594

Ion Ratio Lower Upper

63 100

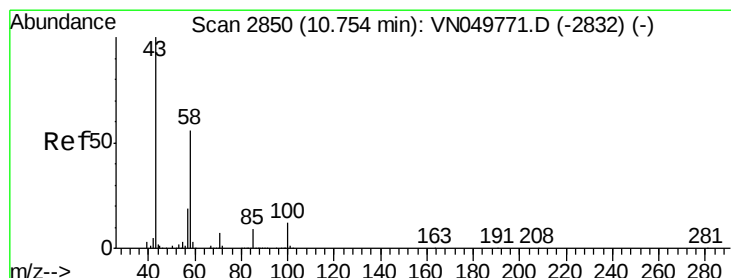
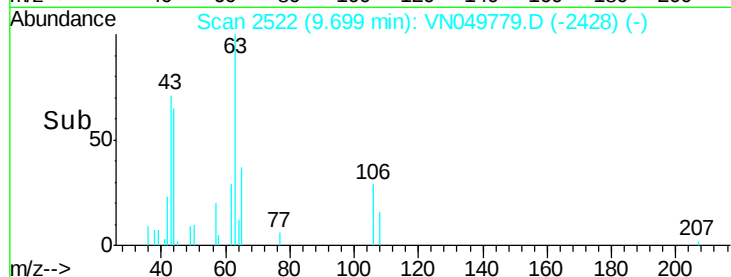
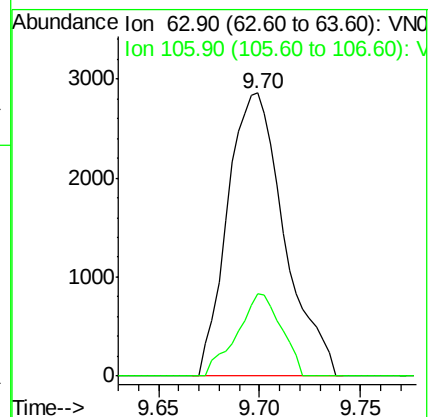
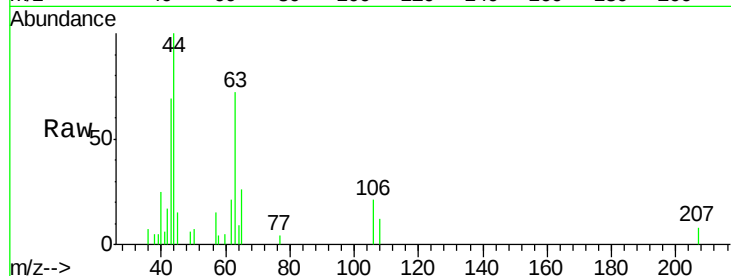
106 22.8 21.8 32.8

Manual Integrations

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7/13/2018 1:35:25 PM



#59

2-Hexanone

Concen: 0.97 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN049779.D

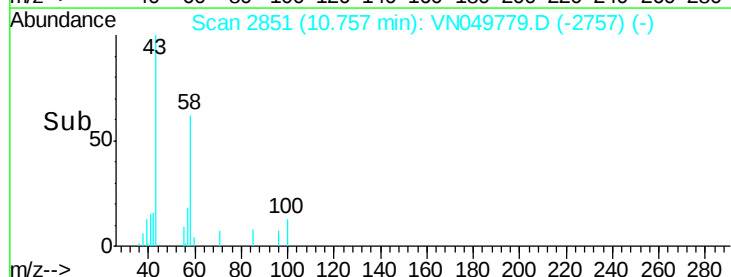
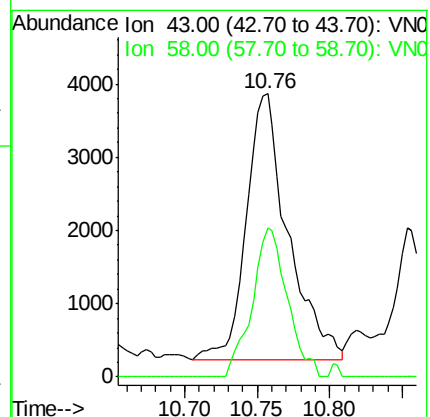
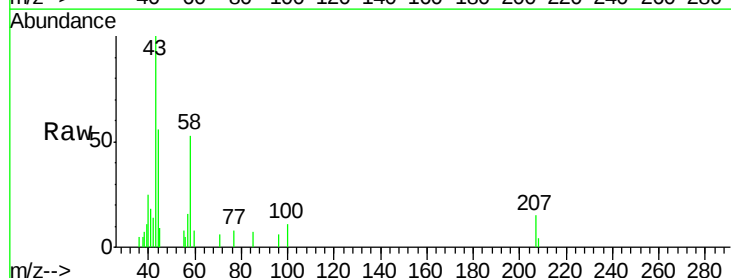
Acq: 12 Jul 2018 19:44

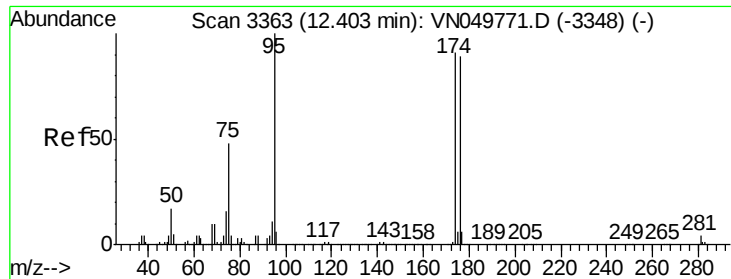
Tgt Ion: 43 Resp: 7256

Ion Ratio Lower Upper

43 100

58 47.3 27.8 83.4





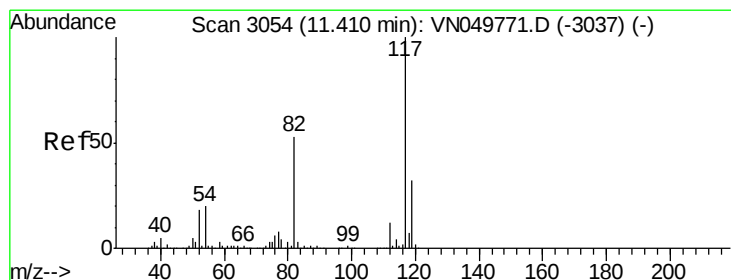
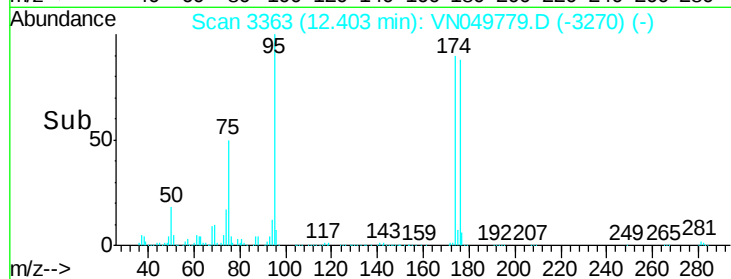
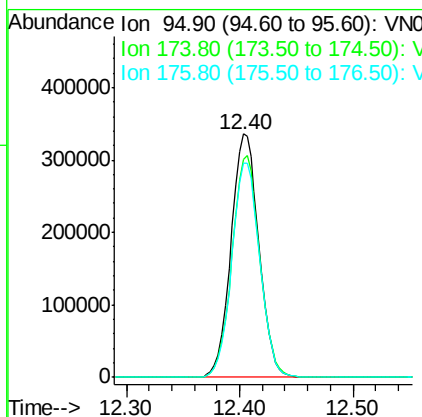
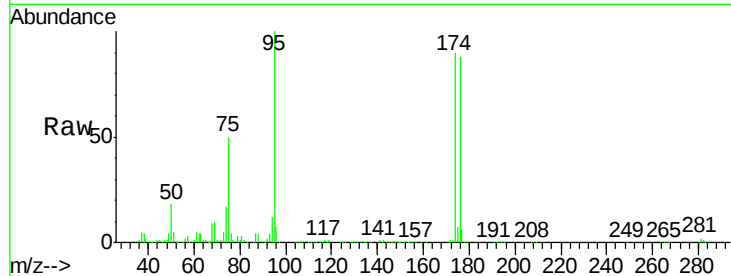
#62
4-Bromofluorobenzene
Concen: 37.00 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Resp	Lower	Upper
95	100	574739		
174	90.4	0.0	179.6	
176	88.4	0.0	174.0	

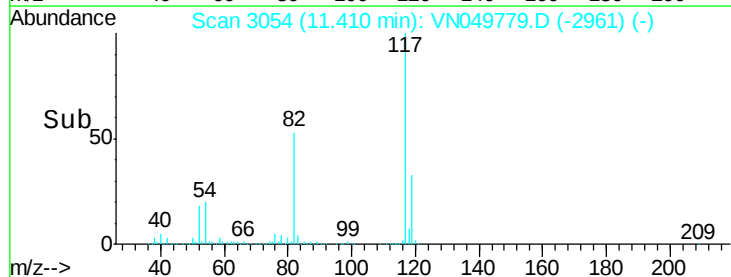
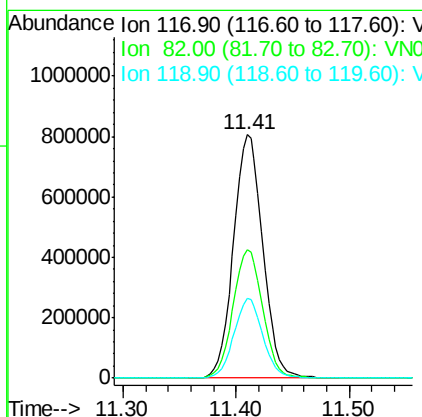
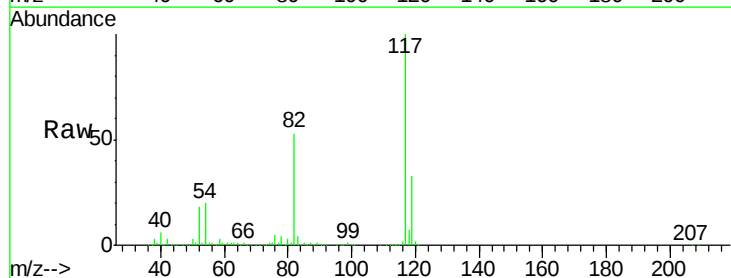
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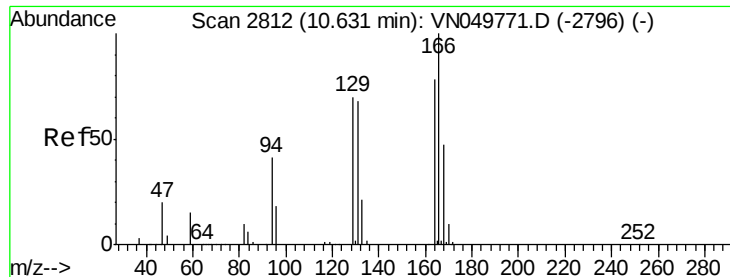
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1454329		
82	52.8	41.9	62.9	
119	32.5	25.4	38.2	





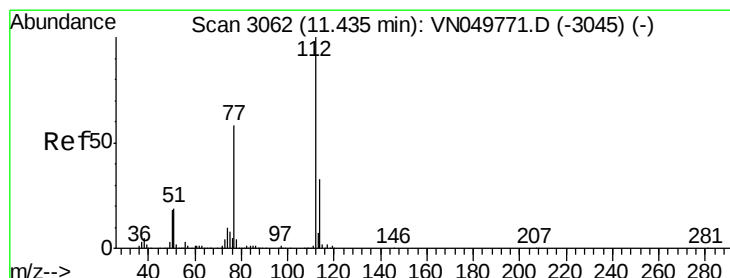
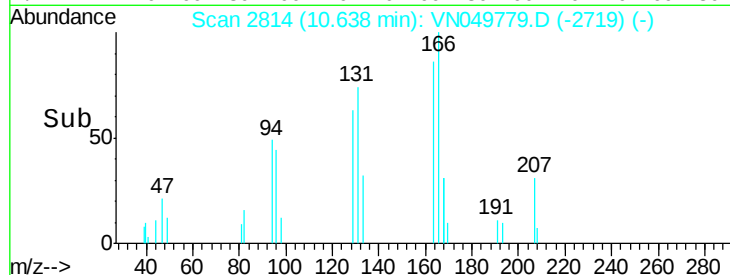
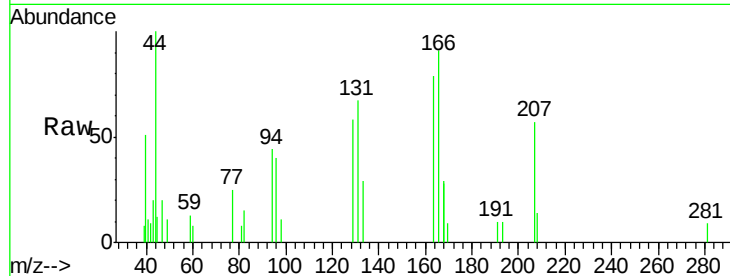
#64
Tetrachloroethene
Concen: 0.23 ug/l
RT: 10.64 min Scan# 2814
Delta R.T. 0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Lower	Upper
164	100		
166	115.9	101.8	152.6
129	73.2	72.8	109.2
131	85.5	70.0	105.0

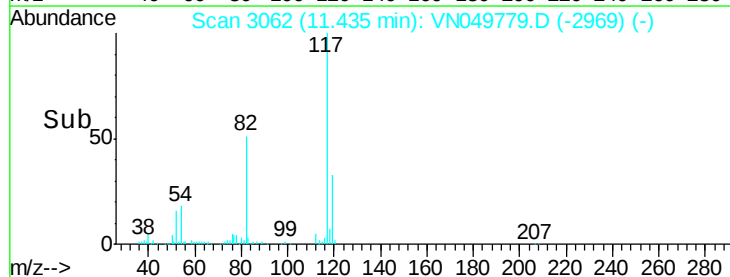
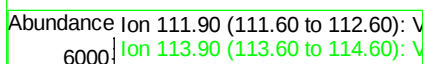
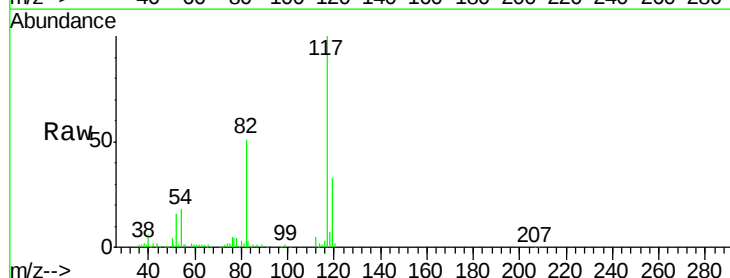
Manual Integrations
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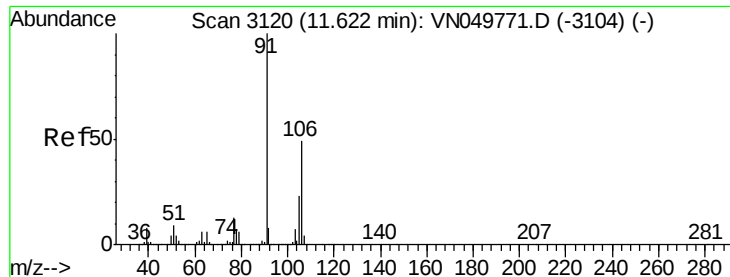
MMDadoda
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#65
Chlorobenzene
Concen: 0.23 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
112	100		
114	38.2	25.4	38.0#





#68

m/p-Xvlenes

Concen: 0.33 ug/l

RT: 11.63 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:106 Resp: 7763

Ion Ratio Lower Upper

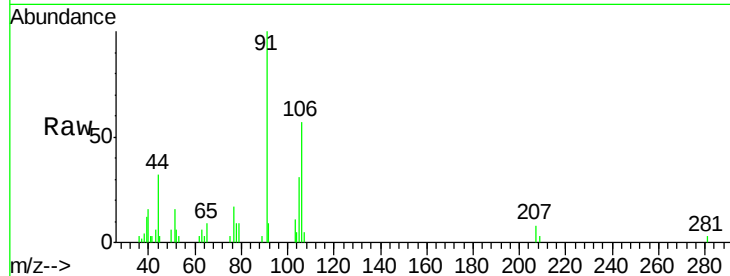
106 100

91 195.1 163.4 245.2

Manual Integrations
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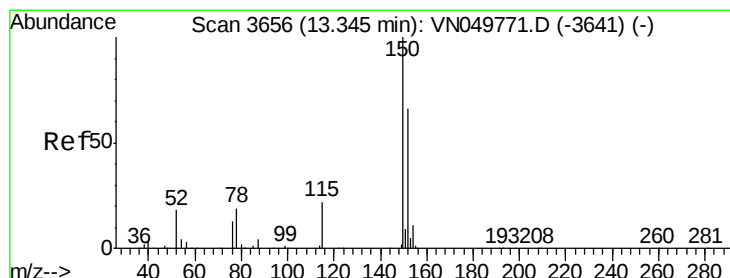
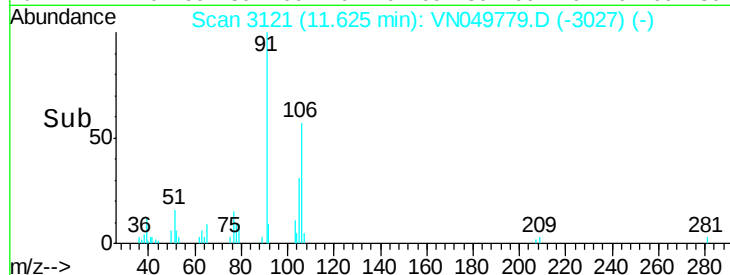
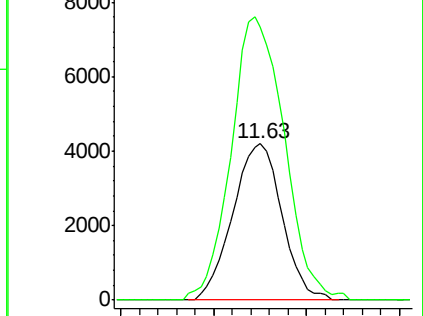
MMDadoda

7/13/2018 1:35:25 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

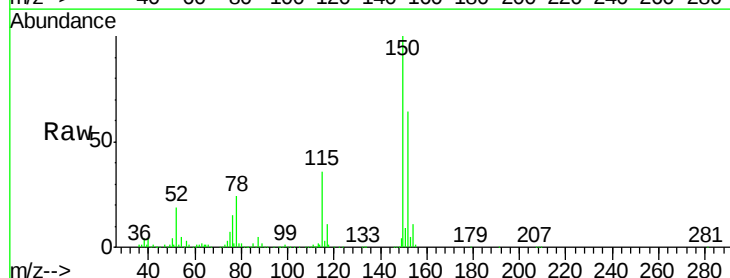
Tgt Ion:152 Resp: 552606

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.2

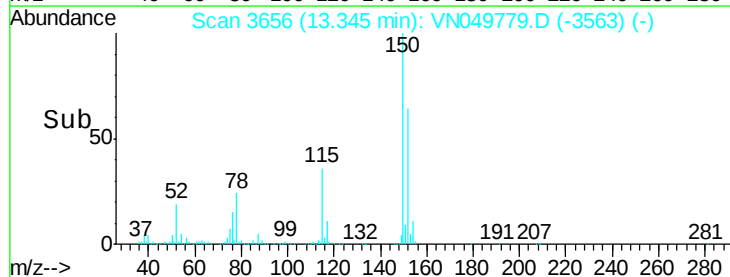
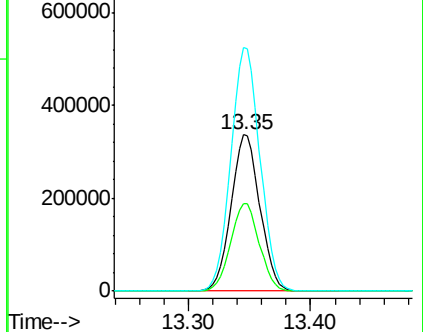
150 157.0 0.0 347.6

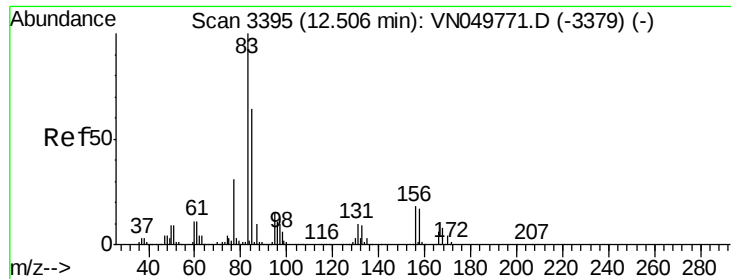


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

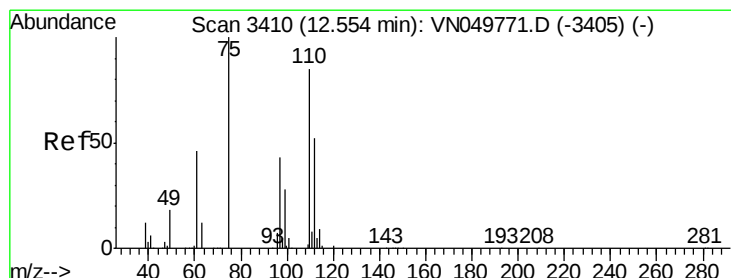
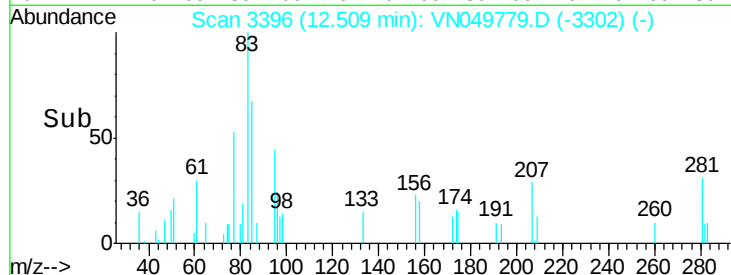
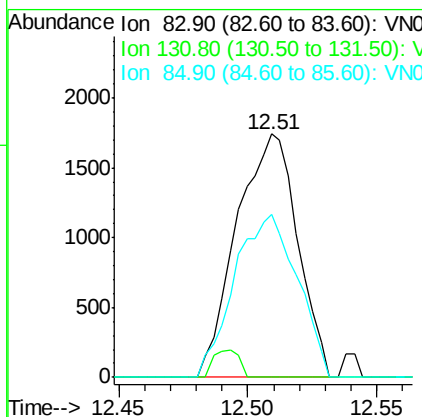
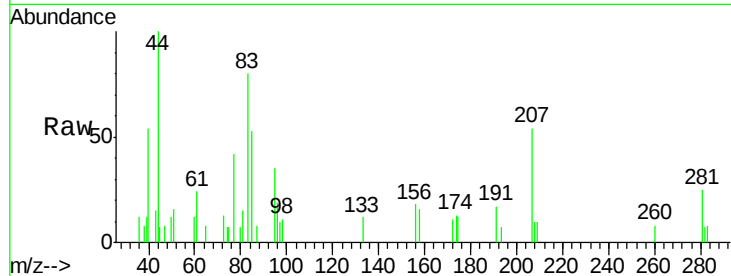
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion	83	Resp	2870
Ion Ratio	Lower	Upper	
83	100		
131	4.6	5.2	15.6#
85	69.1	32.5	97.4

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#76

1,2,3-Trichloropropane

Concen: 0.23 ug/l m

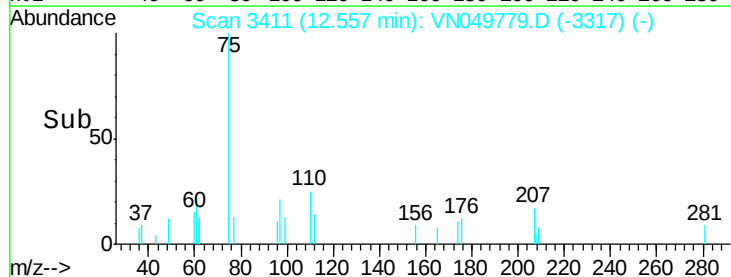
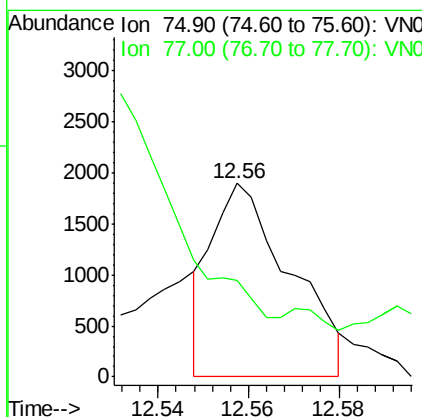
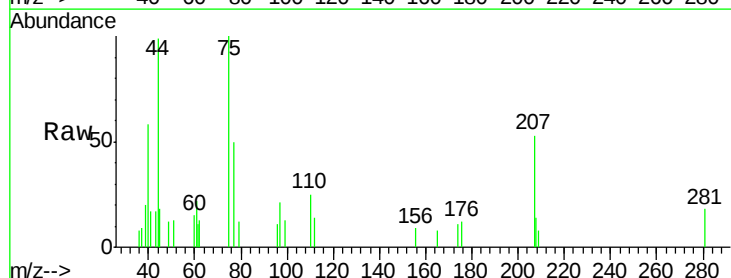
RT: 12.56 min Scan# 3411

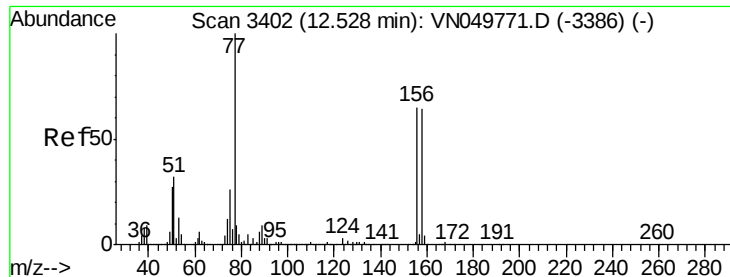
Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Tgt Ion	75	Resp	2303
Ion Ratio	Lower	Upper	
75	100		
77	167.3	0.0	0.0#





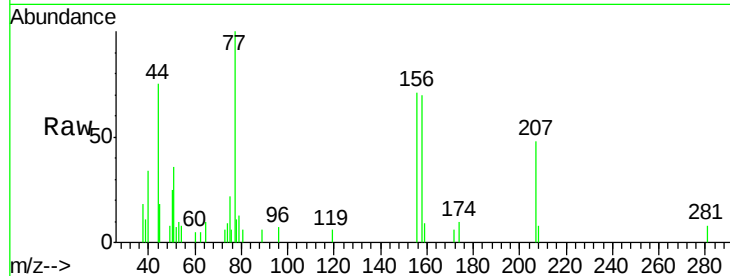
#77
Bromobenzene
Concen: 0.28 ug/l
RT: 12.53 min Scan# 3403
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

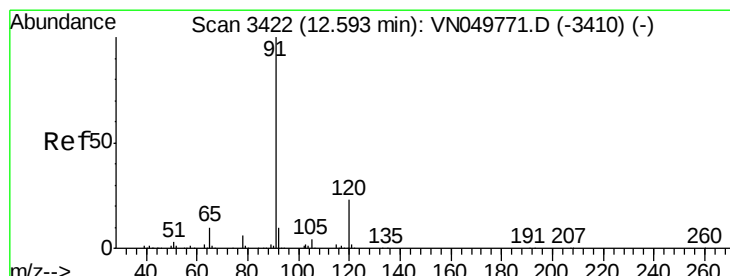
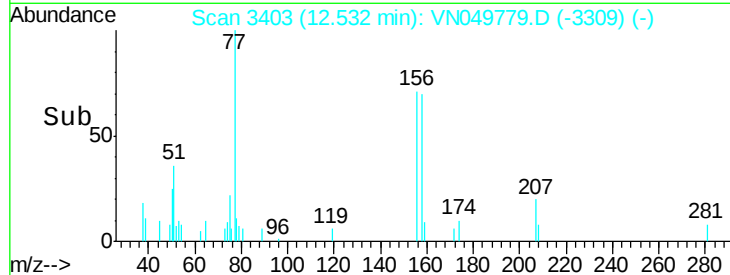
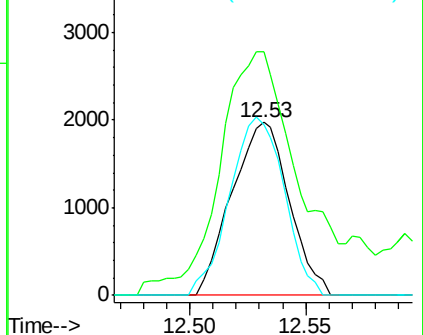
Tot Ion:156 Resp: 3398
Ion Ratio Lower Upper
156 100
77 191.9 90.2 270.6
158 97.9 49.1 147.3

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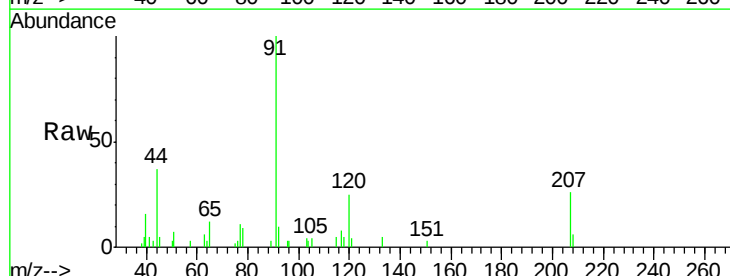


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V

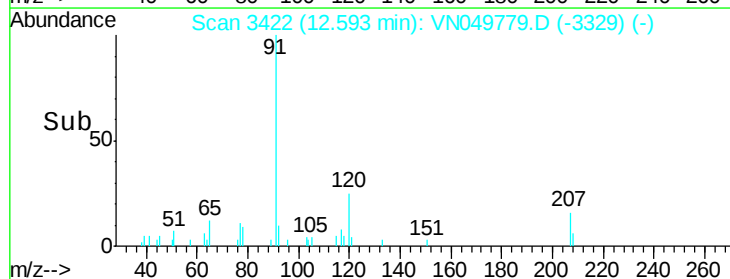
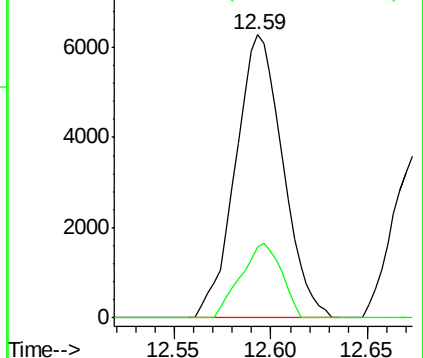


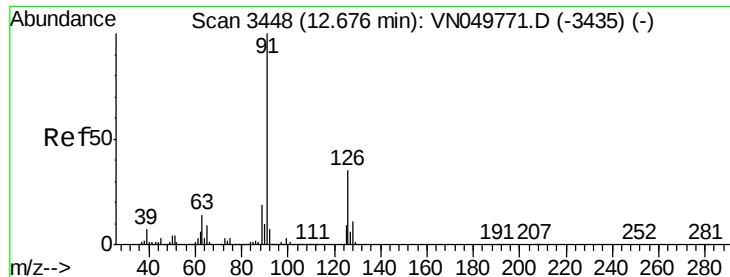
#78
n-propylbenzene
Concen: 0.21 ug/l
RT: 12.59 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 91 Resp: 10676
Ion Ratio Lower Upper
91 100
120 22.7 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





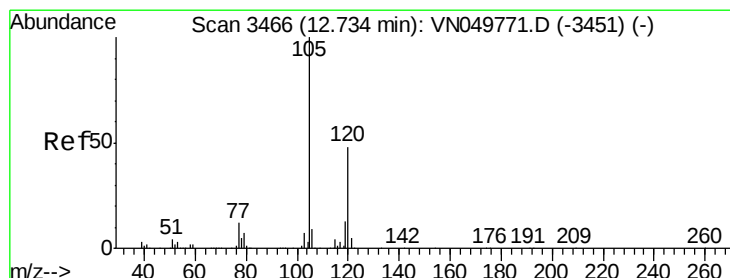
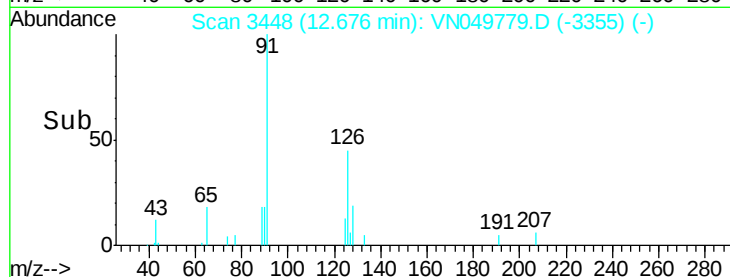
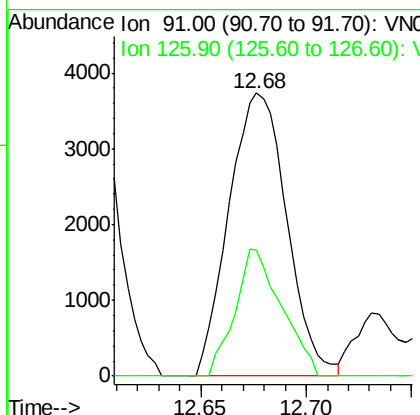
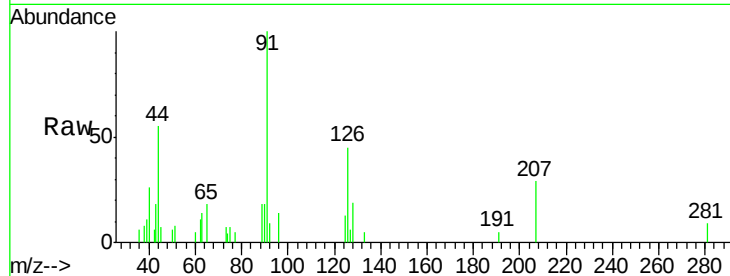
#79
 2-Chlorotoluene
 Concen: 0.22 ug/l
 RT: 12.68 min Scan# 3448
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion: 91 Resp: 7125
 Ion Ratio Lower Upper
 91 100
 126 35.8 17.5 52.5

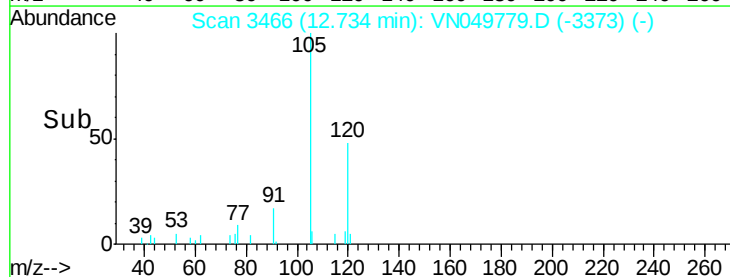
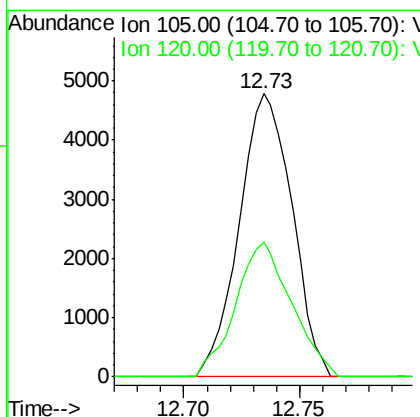
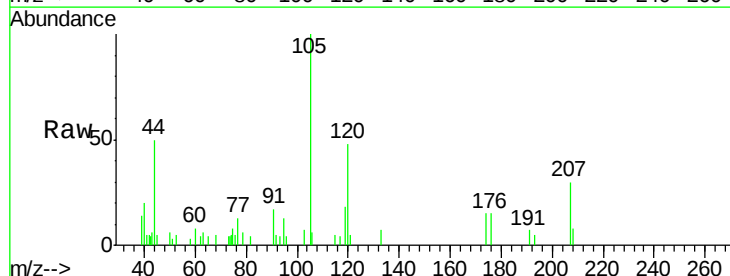
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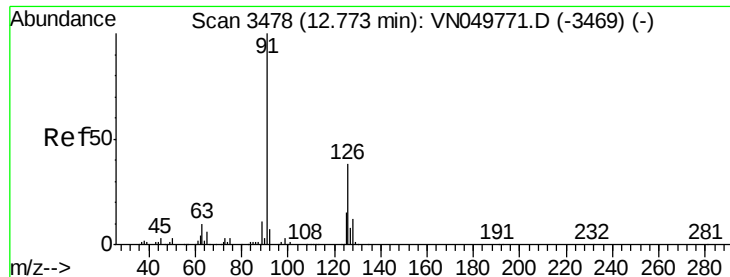
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#80
 1,3,5-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 12.73 min Scan# 3466
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion: 105 Resp: 7579
 Ion Ratio Lower Upper
 105 100
 120 50.4 24.3 72.8





#82

4-Chlorotoluene

Concen: 0.22 ug/l

RT: 12.78 min Scan# 3480

Delta R.T. 0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 7019

Ion Ratio Lower Upper

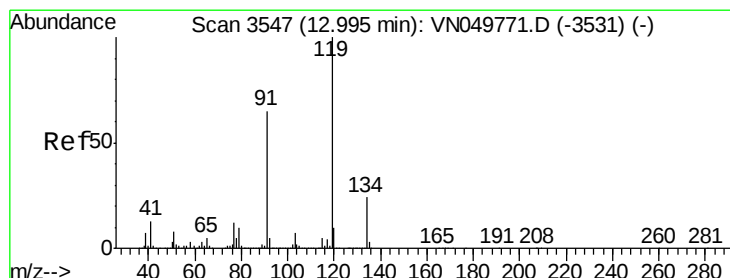
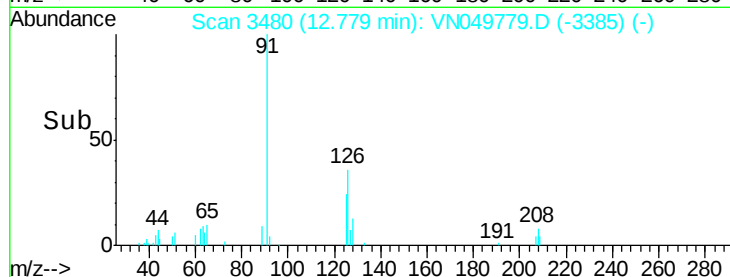
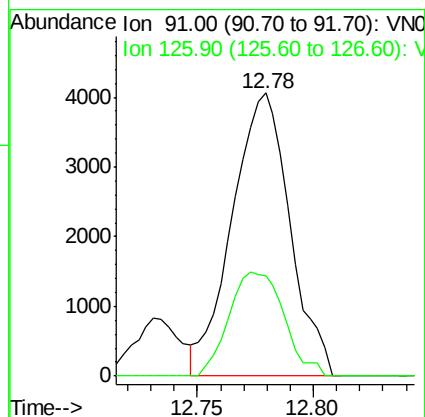
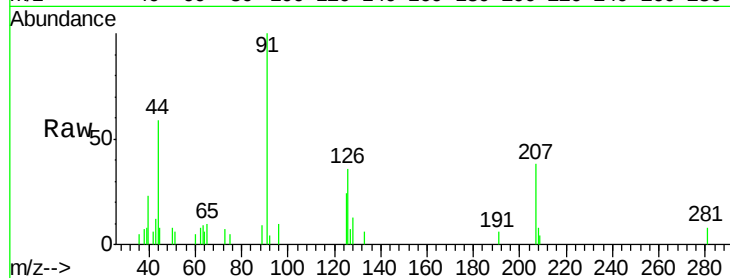
91 100

126 35.0 17.2 51.6

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#83

tert-Butylbenzene

Concen: 0.21 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

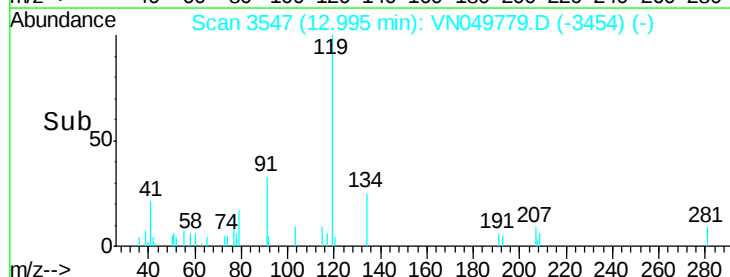
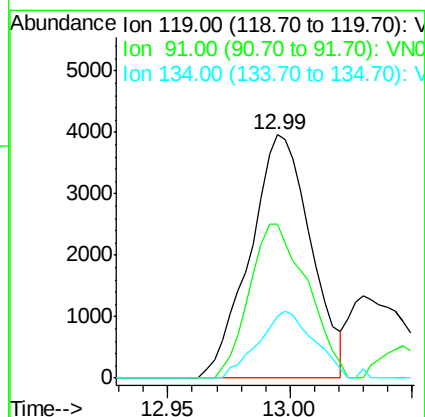
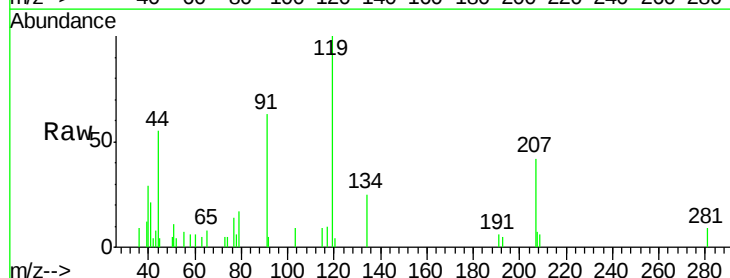
Tgt Ion: 119 Resp: 6857

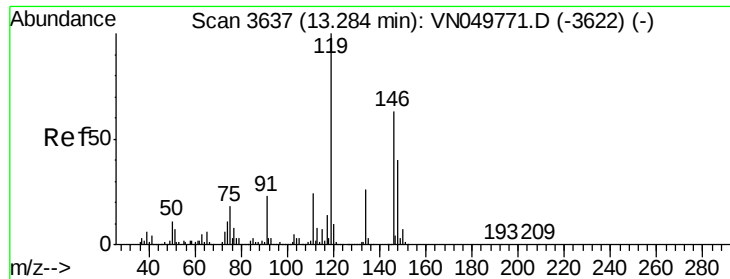
Ion Ratio Lower Upper

119 100

91 60.1 32.0 96.2

134 25.0 12.8 38.4





#87

1,3-Dichlorobenzene

Concen: 0.24 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

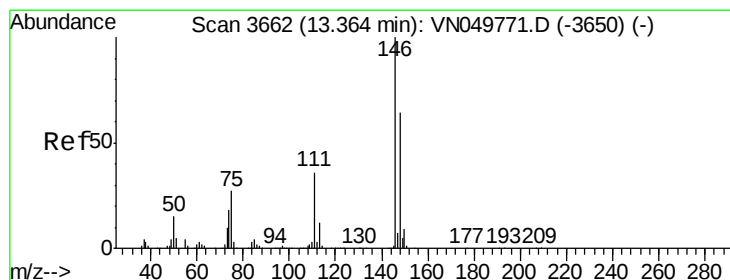
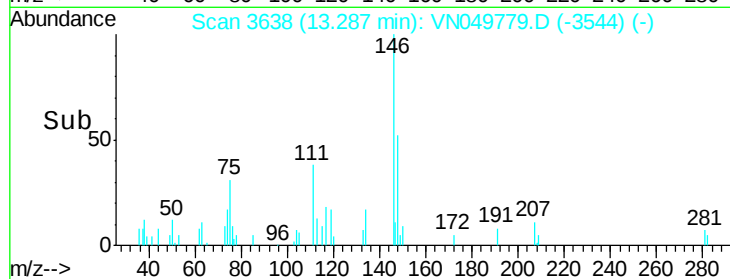
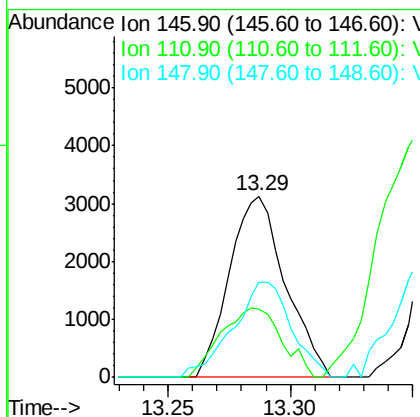
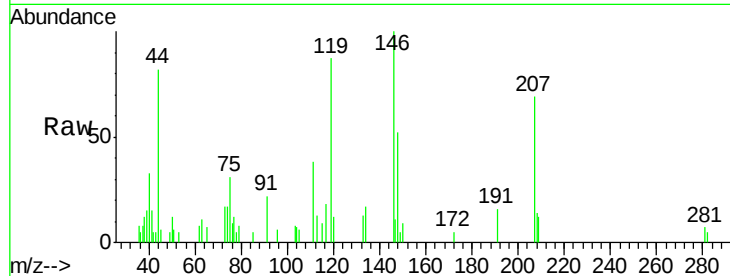
Instrument :
MSVOA_N

ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	19.0	57.0
148	54.6	32.5	97.5

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#88

1,4-Dichlorobenzene

Concen: 0.30 ug/l m

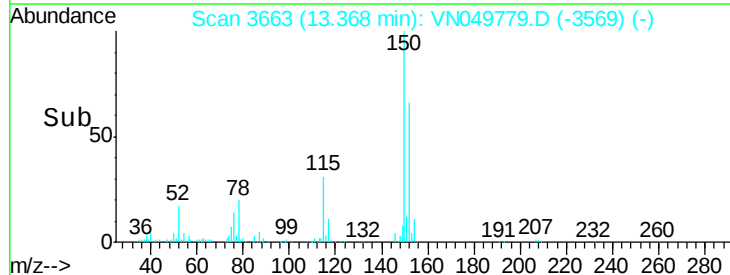
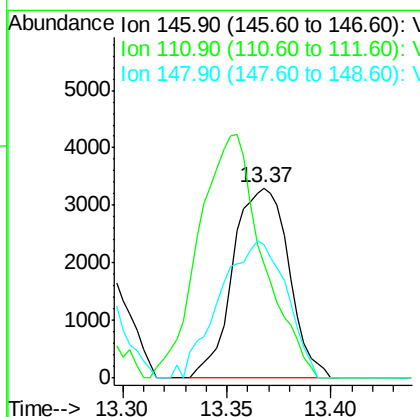
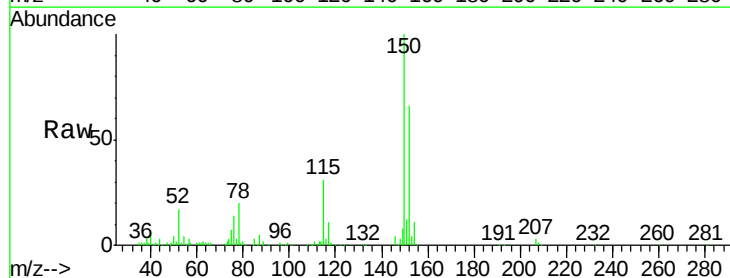
RT: 13.37 min Scan# 3663

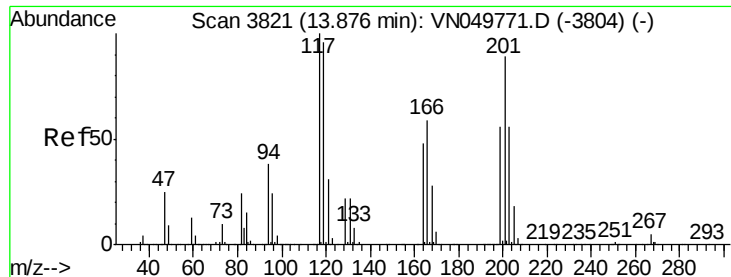
Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.8	18.9	56.5
148	44.2	32.1	96.3





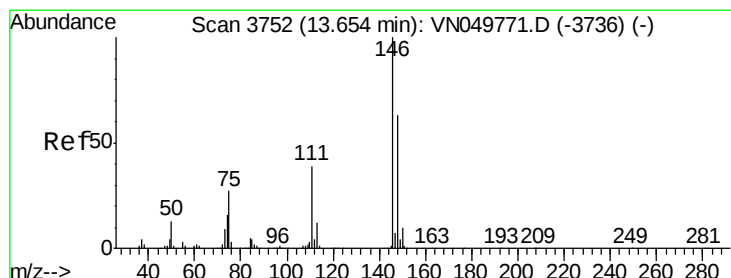
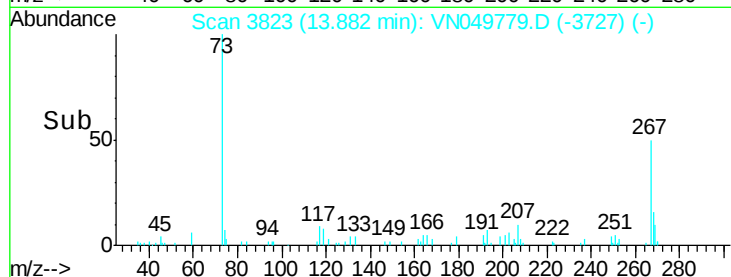
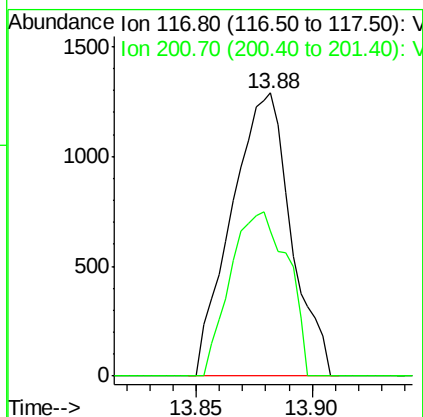
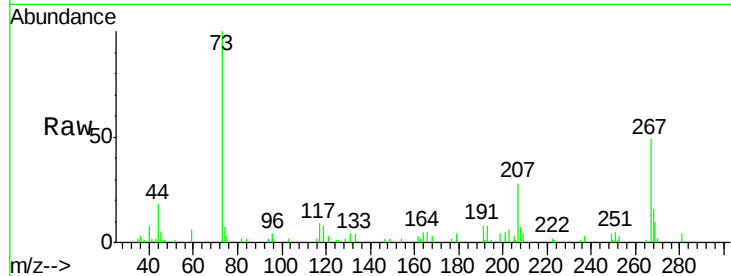
#90
Hexachloroethane
Concen: Below Cal
RT: 13.88 min Scan# 3823
Delta R.T. 0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

Tot Ion:117 Resp: 2299
Ion Ratio Lower Upper
117 100
201 55.9 45.3 135.8

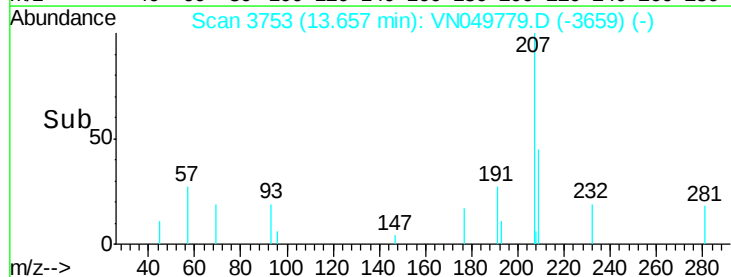
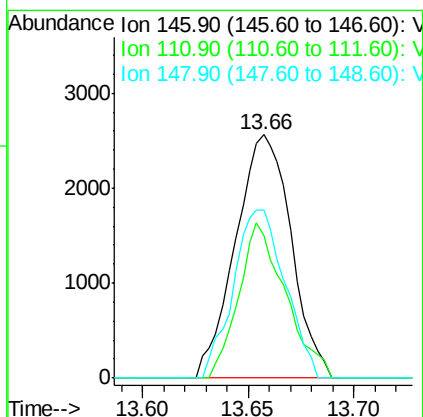
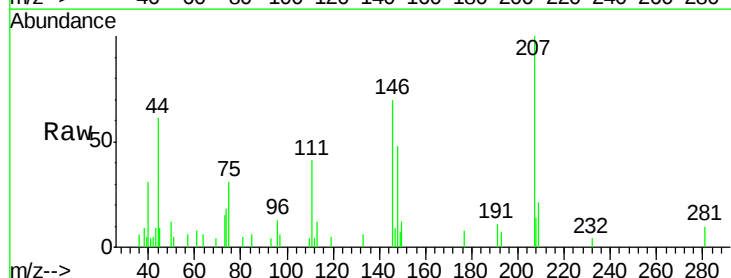
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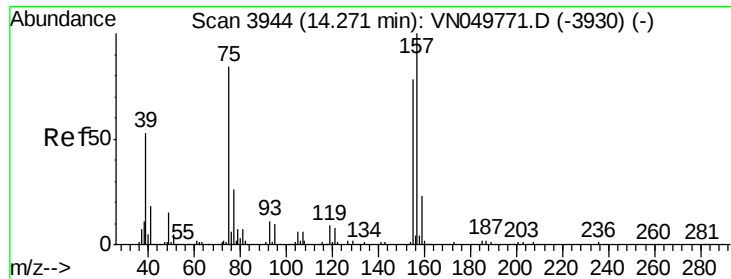
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#91
1,2-Dichlorobenzene
Concen: 0.23 ug/l
RT: 13.66 min Scan# 3753
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion:146 Resp: 4692
Ion Ratio Lower Upper
146 100
111 53.8 19.7 59.1
148 64.0 32.0 96.2





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

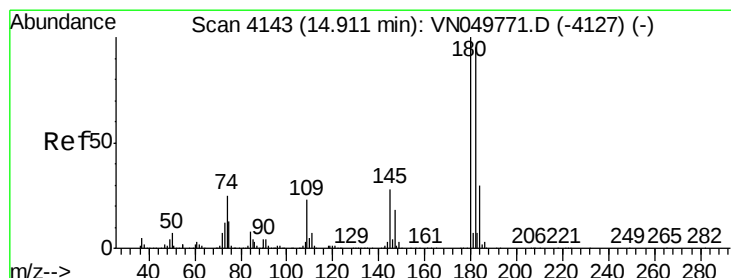
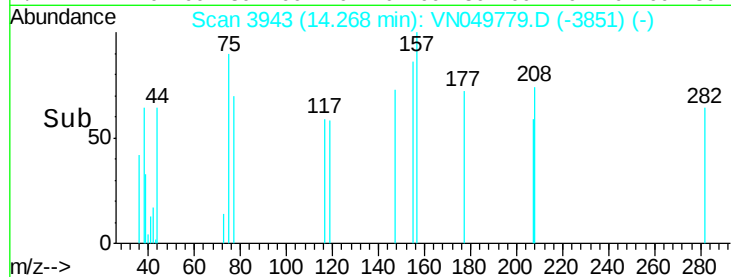
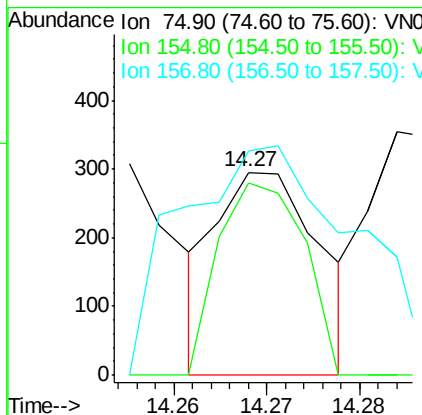
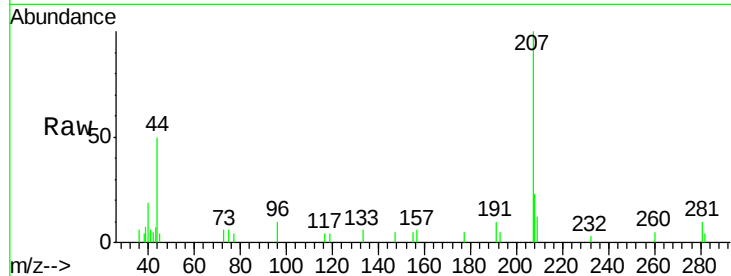
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	75	Resp:	228
Ion Ratio	Lower	Upper	
75	100		
155	79.4	45.7	137.1
157	189.0	56.9	170.7#

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#93

1,2,4-Trichlorobenzene

Concen: 3.08 ug/l

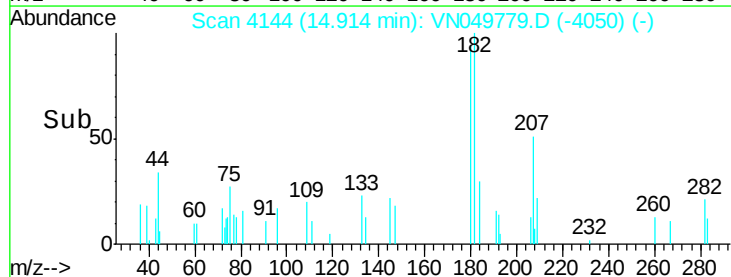
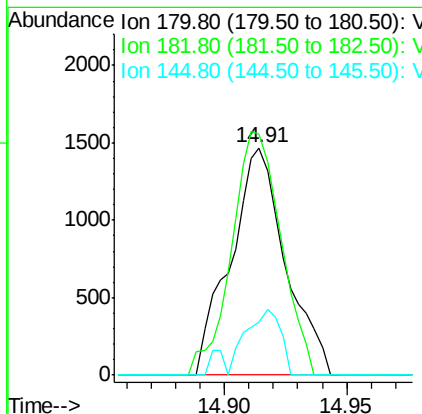
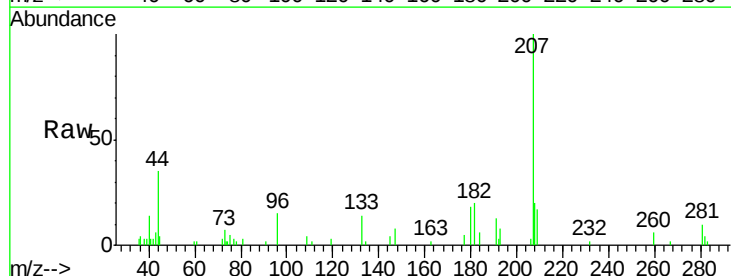
RT: 14.91 min Scan# 4144

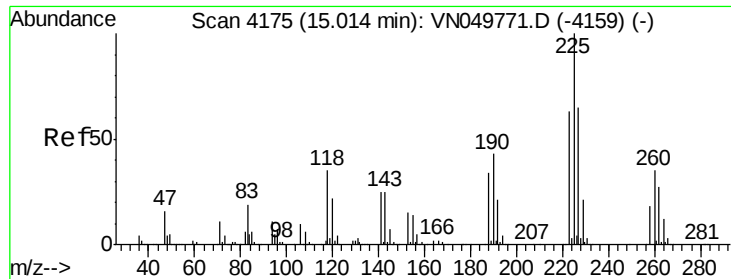
Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Tgt Ion:	180	Resp:	2296
Ion Ratio	Lower	Upper	
180	100		
182	96.1	47.3	141.9
145	18.1	14.4	43.0





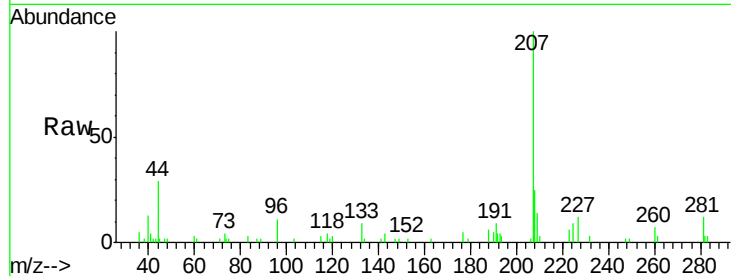
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.01 min Scan# 4174
Delta R.T. -0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

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

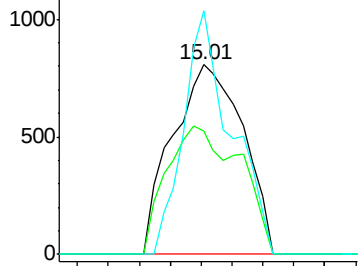
Tot Ion	Ratio	Lower	Upper
225	100		
223	70.4	30.9	92.7
227	87.0	31.8	95.4

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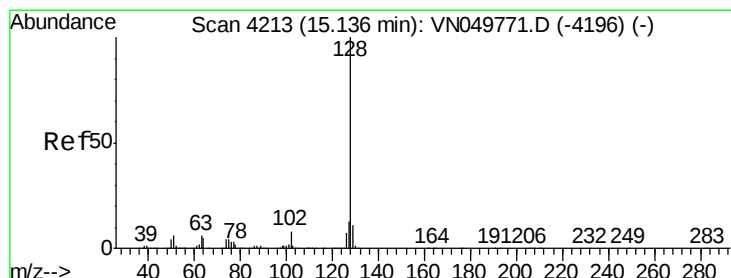
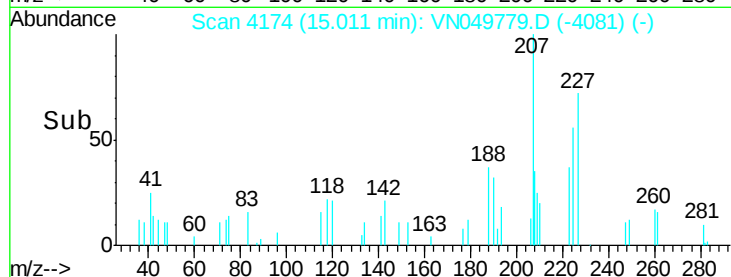
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Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

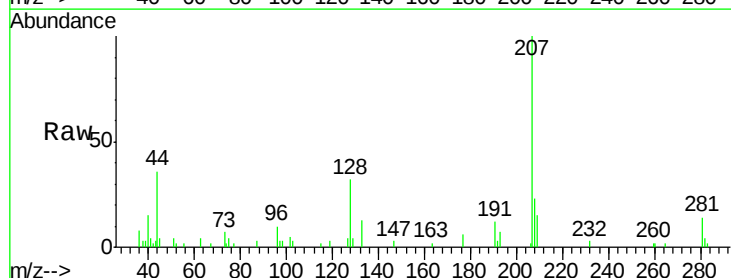


Time-->

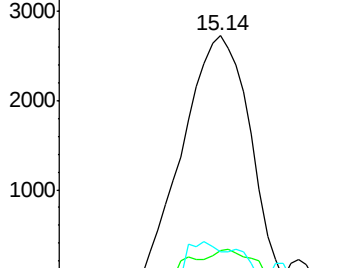


#95
Naphthalene
Concen: 4.22 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

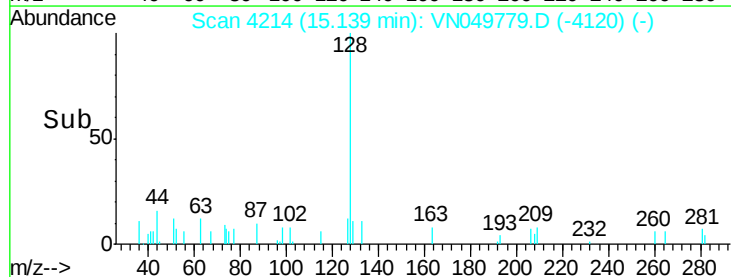
Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.4	15.6
129	11.3	8.6	13.0

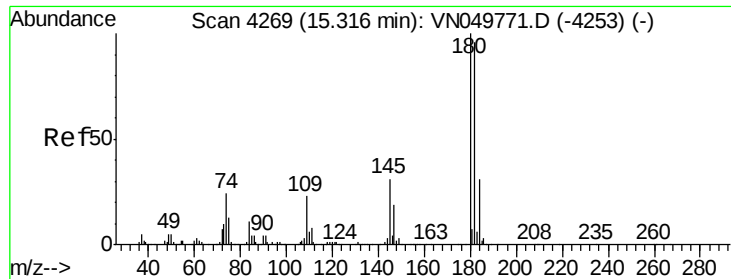


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



Time-->





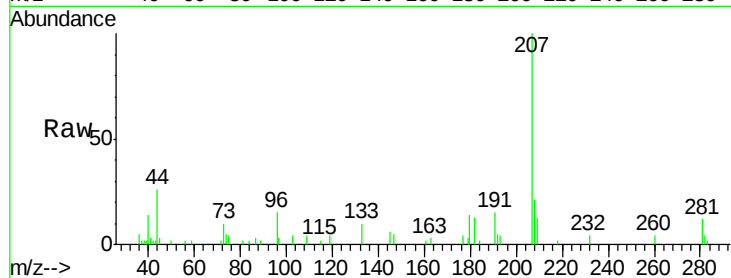
#96
 1,2,3-Trichlorobenzene
 Concen: 0.27 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.4	47.4	142.2
145	29.9	15.2	45.6

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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

