

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061418\
 Data File : VN049226.D
 Acq On : 14 Jun 2018 14:33
 Operator : MD\SY
 Sample : J3435-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW4

Manual Integrations
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 6/15/2018 1:15:22 PM

Quant Time: Jun 15 04:59:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 14 05:15:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	469968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1161903	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1250520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	590239	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	322150	42.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.90%	
35) Dibromofluoromethane	7.59	113	265373	27.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.18%	
50) Toluene-d8	10.09	98	1495313	39.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.94%	
62) 4-Bromofluorobenzene	12.40	95	619896	49.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.86%	
Target Compounds						
					Qvalue	
17) Carbon Disulfide	4.05	76	13809	0.690	ug/l	97
25) 2-Butanone	6.84	43	98733	38.027	ug/l	96
27) cis-1,2-Dichloroethene	6.84	96	9836	1.388	ug/l	82
31) Cyclohexane	7.65	56	1371294	122.002	ug/l	99
39) Methylcyclohexane	9.08	83	1243951	82.953	ug/l	99
40) Benzene	8.04	78	761281	17.309	ug/l	100
44) Trichloroethene	8.84	130	9973	0.908	ug/l	90
52) Toluene	10.16	92	2343015	91.561	ug/l	98
67) Ethyl Benzene	11.50	91	20187943m	362.744	ug/l	
68) m/p-Xylenes	11.63	106	10195467	500.964	ug/l #	1
69) o-Xylene	11.95	106	919287	46.903	ug/l	99
73) Isopropylbenzene	12.25	105	2407066	42.458	ug/l	99
78) n-propylbenzene	12.59	91	4663091	74.042	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	3877730	89.208	ug/l	100
83) tert-Butylbenzene	12.99	119	44551	1.190	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	5492239	127.119	ug/l	99
85) sec-Butylbenzene	13.17	105	341802	6.847	ug/l #	68
86) p-Isopropyltoluene	13.29	119	132310	3.272	ug/l #	76
89) n-Butylbenzene	13.62	91	294556	9.620	ug/l #	78
95) Naphthalene	15.14	128	3746593	168.408	ug/l	99

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

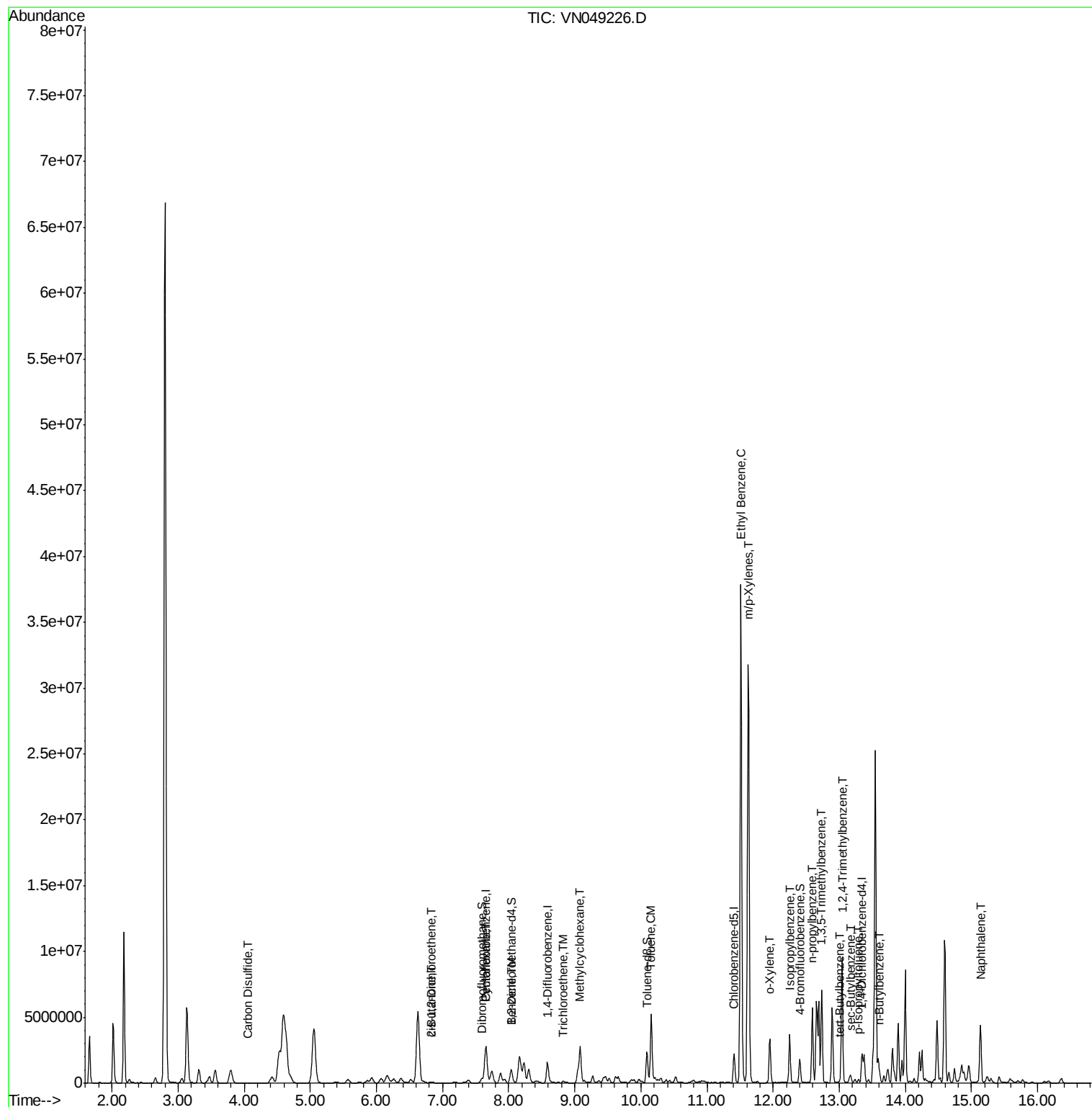
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061418\
Data File : VN049226.D
Acq On : 14 Jun 2018 14:33
Operator : MD\SY
Sample : J3435-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 1

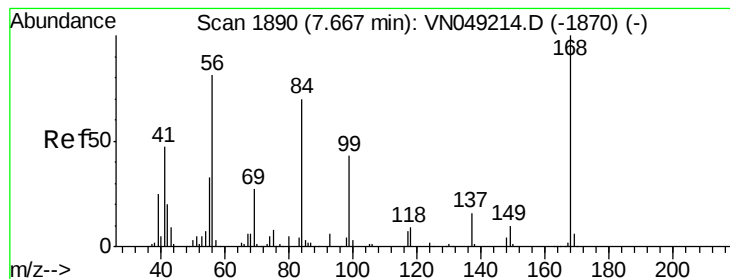
Instrument :
MSVOA_N
ClientSampleId :
MW4

Quant Time: Jun 15 04:59:59 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 14 05:15:23 2018
Response via : Initial Calibration

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

MW4

Tot Ion:168 Resp: 469968

Ion Ratio Lower Upper

168 100

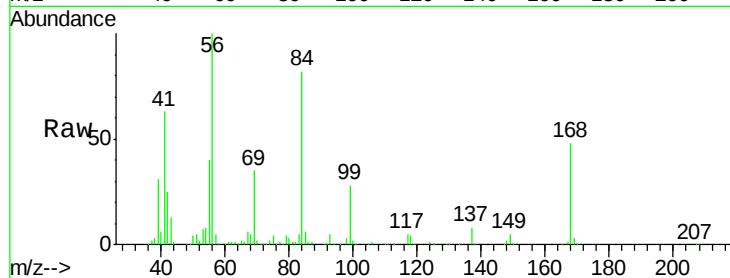
99 57.1 45.8 68.6

Manual Integrations

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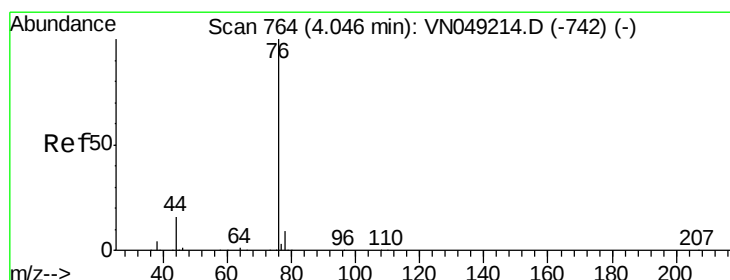
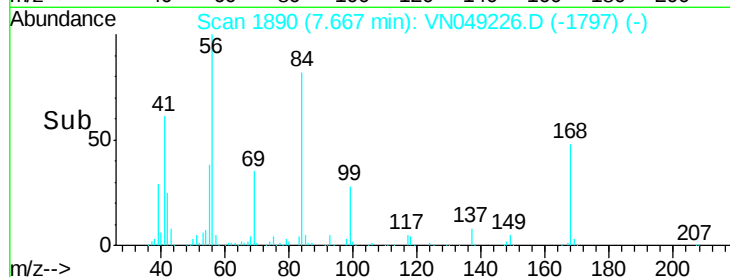
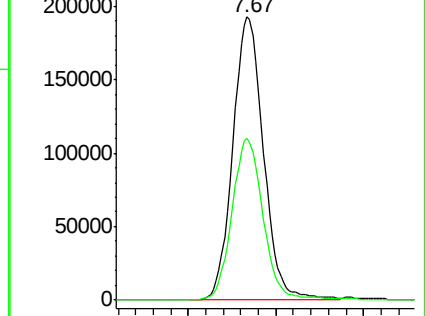
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#17

Carbon Disulfide

Concen: 0.690 ug/l

RT: 4.05 min Scan# 764

Delta R.T. 0.00 min

Lab File: VN049226.D

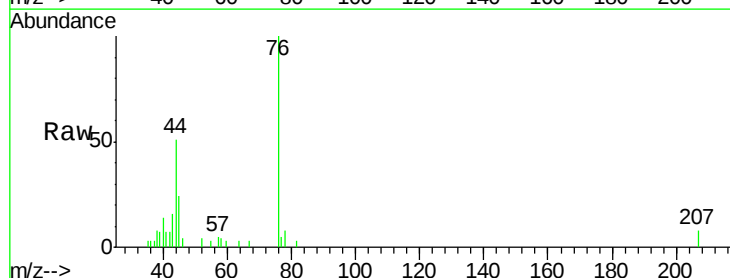
Acq: 14 Jun 2018 14:33

Tgt Ion: 76 Resp: 13809

Ion Ratio Lower Upper

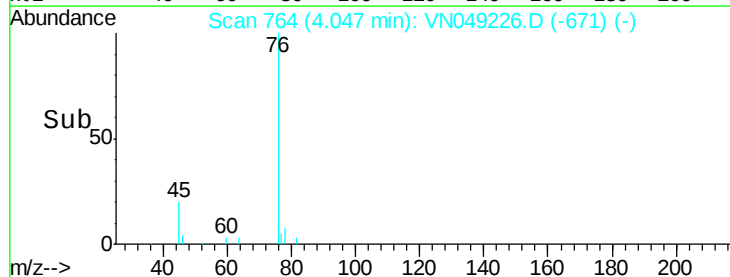
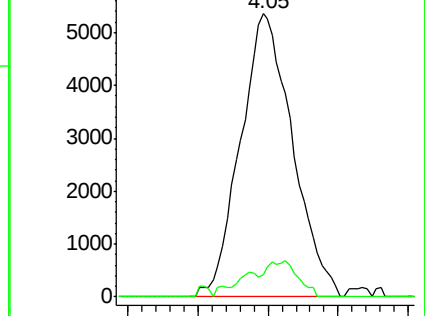
76 100

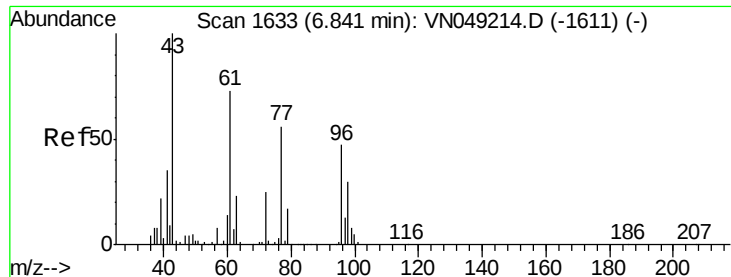
78 7.9 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO





#25

2-Butanone

Concen: 38.027 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

MW4

Tot Ion: 43 Resp: 98733

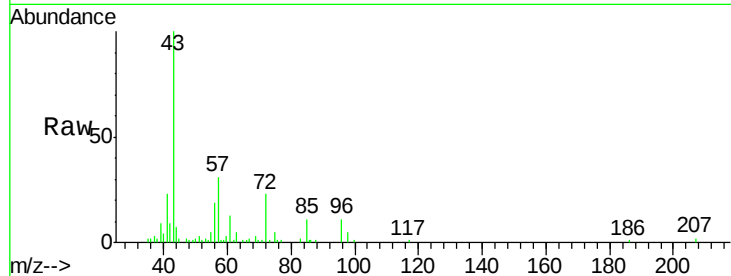
Ion Ratio Lower Upper

43 100

72 23.0 20.2 30.2

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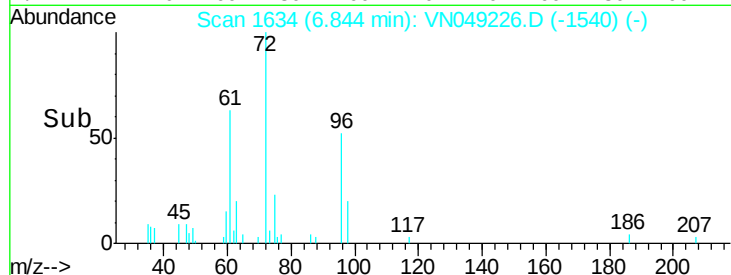
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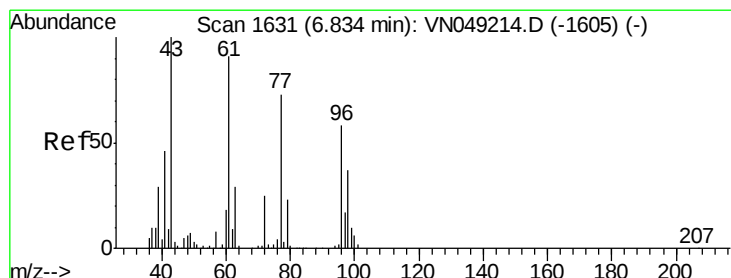
Abundance Ion 43.00 (42.70 to 43.70): VN049226.D (-1540) (-)

Ion 72.00 (71.70 to 72.70): VN049226.D (-1540) (-)

Time-->



Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.388 ug/l

RT: 6.84 min Scan# 1632

Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

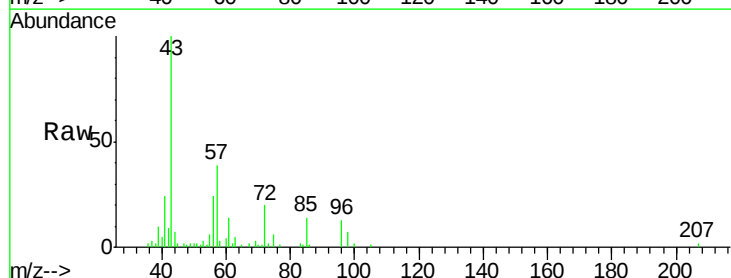
Tgt Ion: 96 Resp: 9836

Ion Ratio Lower Upper

96 100

61 127.3 0.0 316.4

98 66.9 0.0 128.4

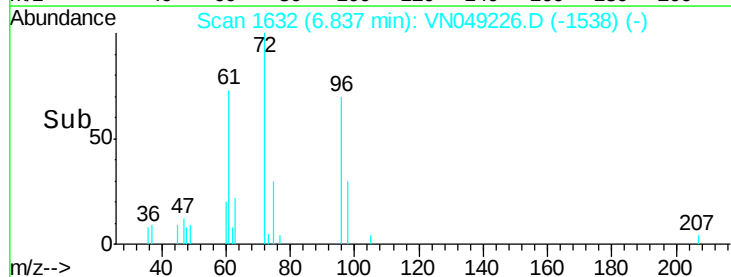


Abundance Ion 95.90 (95.60 to 96.60): VN049226.D (-1538) (-)

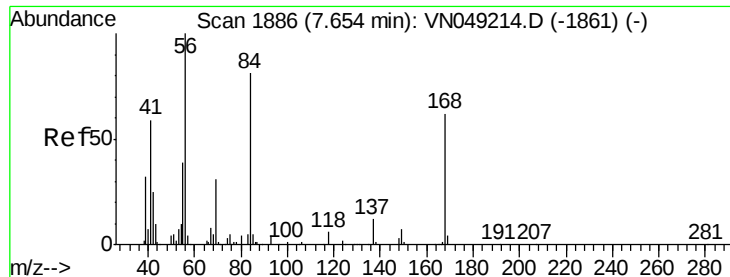
Ion 60.90 (60.60 to 61.60): VN049226.D (-1538) (-)

Ion 97.90 (97.60 to 98.60): VN049226.D (-1538) (-)

Time-->



Time-->



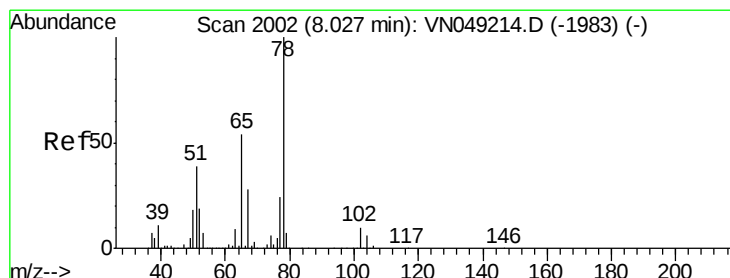
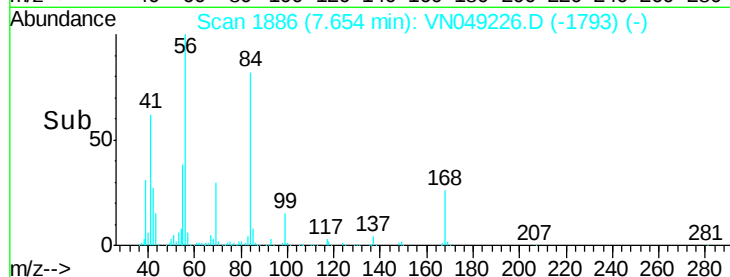
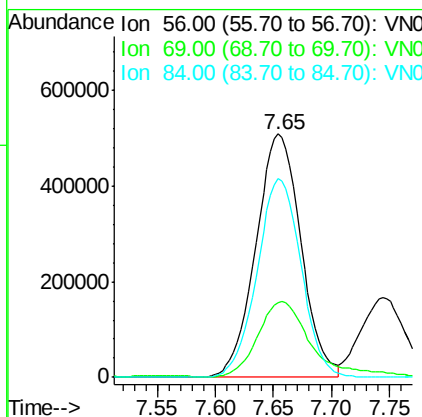
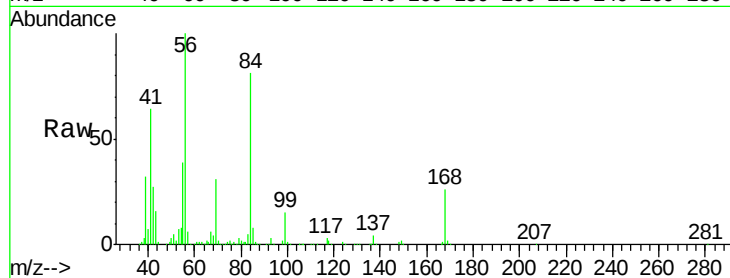
#31
Cyclohexane
Concen: 122.002 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Instrument :
MSVOA_N
ClientSampleId :
MW4

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.2	25.0	37.4
84	81.5	64.6	96.8

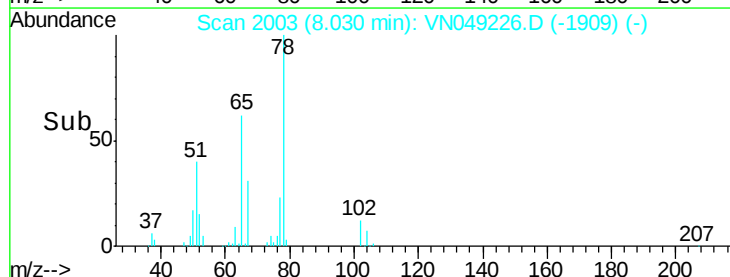
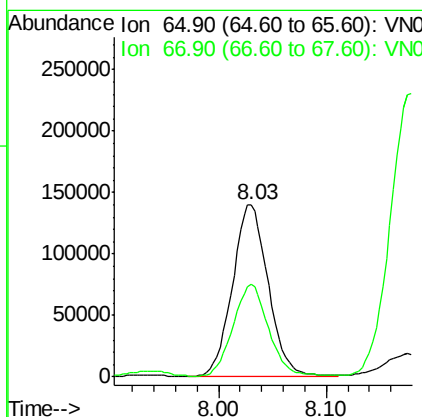
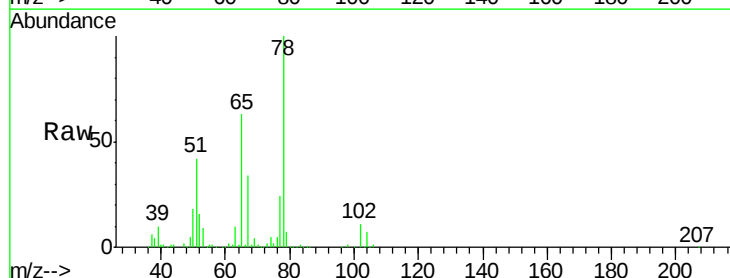
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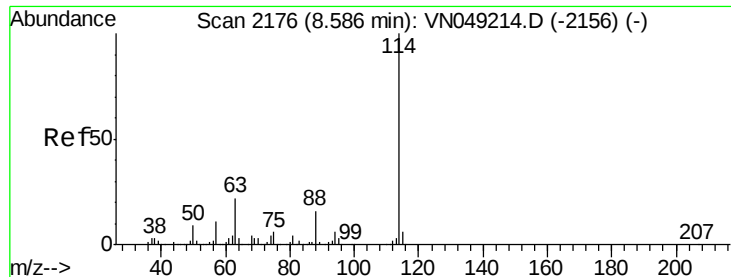
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#33
1,2-Dichloroethane-d4
Concen: 42.453 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Instrument :

MSVOA_N

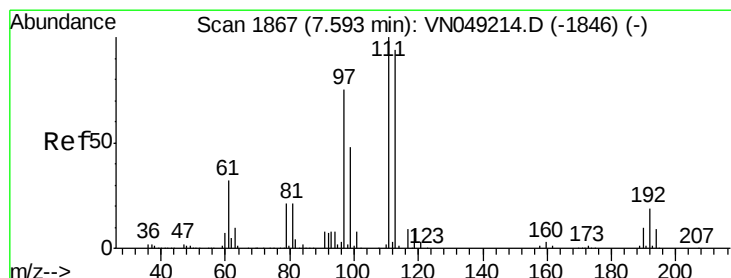
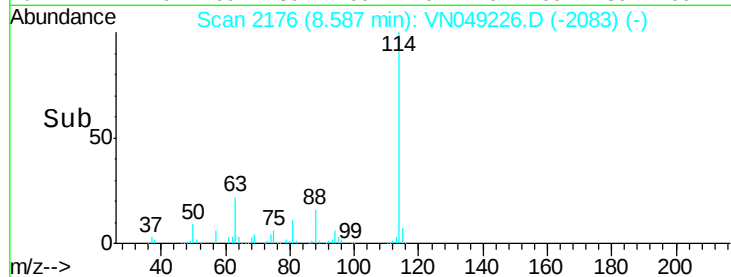
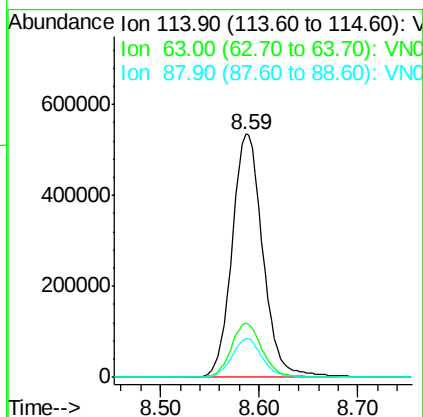
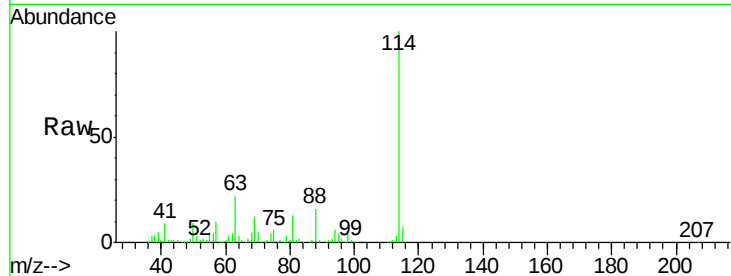
ClientSampleId :

MW4

Tot Ion:	114	Resp:	1161903
Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.4
88	15.9	0.0	31.4

Manual Integrations
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#35

Dibromofluoromethane

Concen: 27.595 ug/l

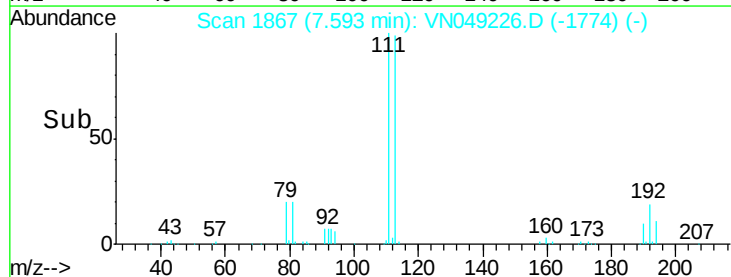
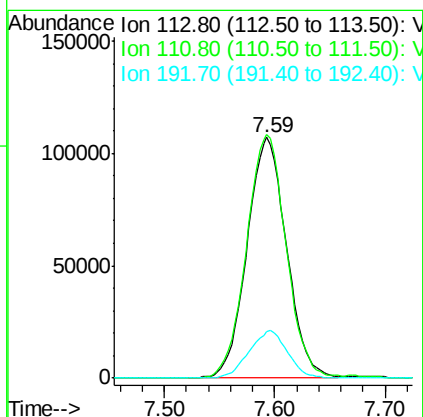
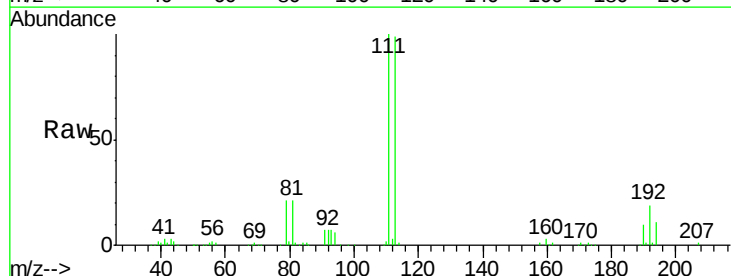
RT: 7.59 min Scan# 1867

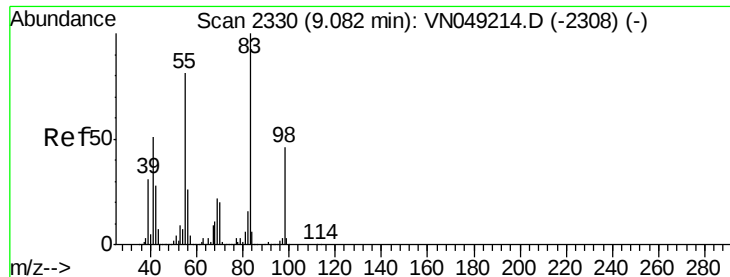
Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Tgt Ion:	113	Resp:	265373
Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.4	123.6
192	19.3	15.0	22.6





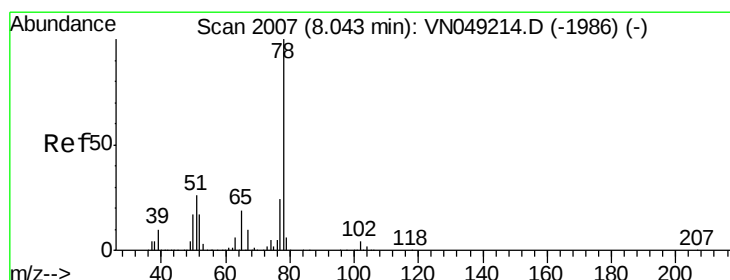
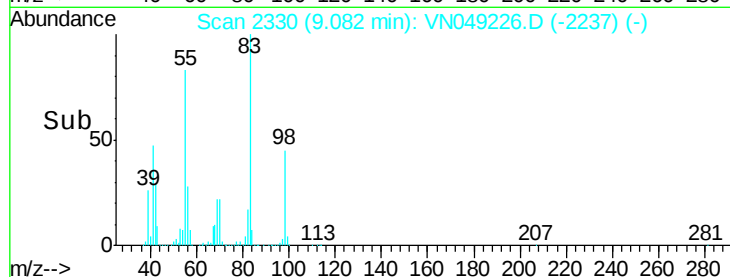
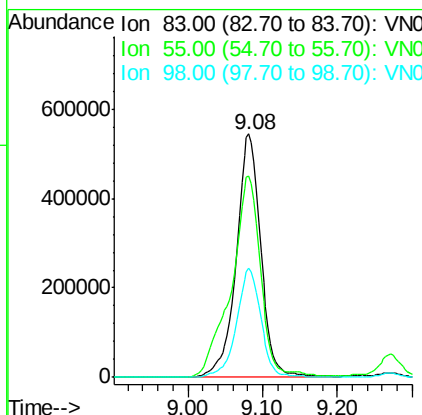
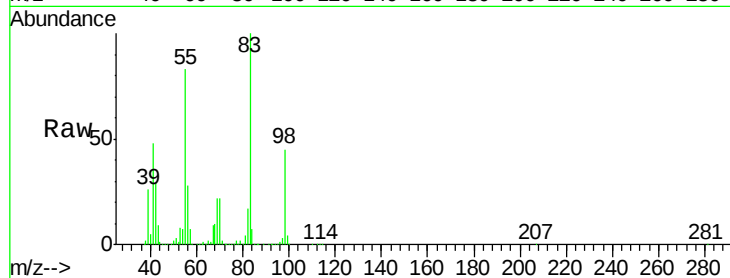
#39
Methvlcvclohexane
Concen: 82.953 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Instrument :
MSVOA_N
ClientSampleId :
MW4

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.6	65.1	97.7
98	44.8	36.5	54.7

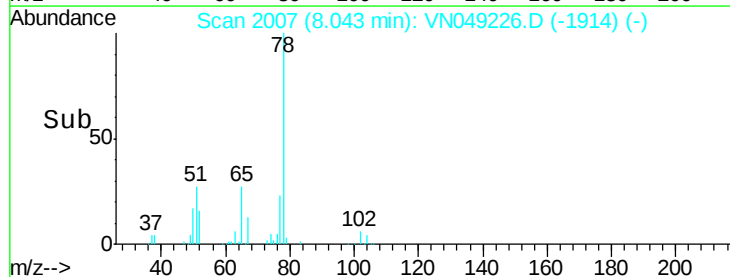
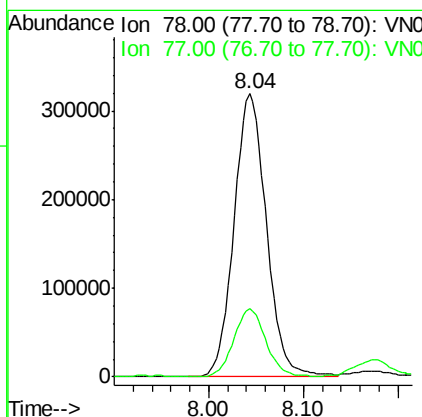
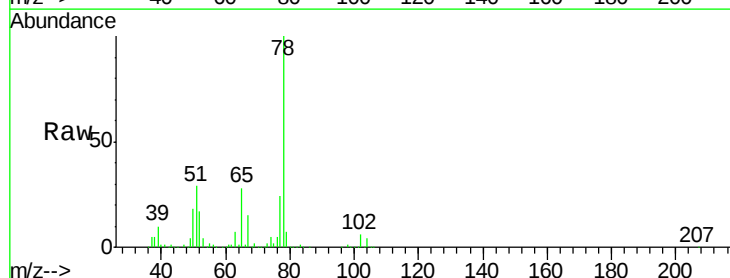
Manual Integrations
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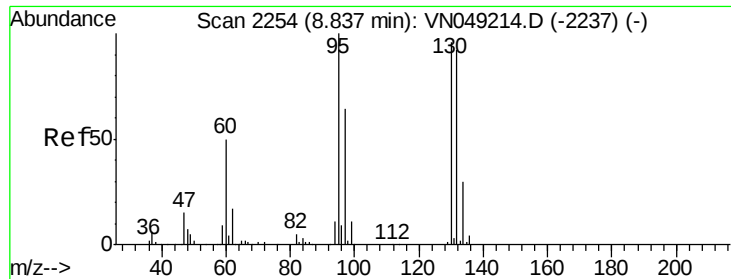
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#40
Benzene
Concen: 17.309 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.4	29.0





#44

Trichloroethene

Concen: 0.908 ug/l

RT: 8.84 min Scan# 2255

Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

MW4

Tot Ion:130 Resp: 9973

Ion Ratio Lower Upper

130 100

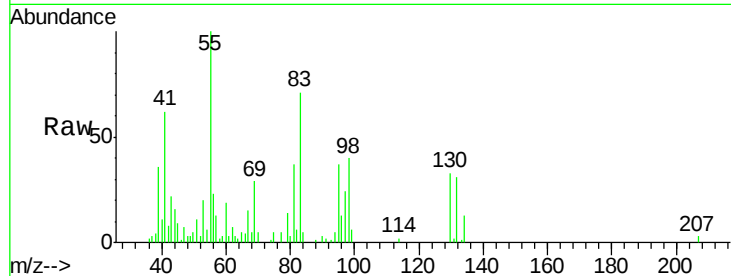
95 114.4 0.0 208.6

Manual Integrations

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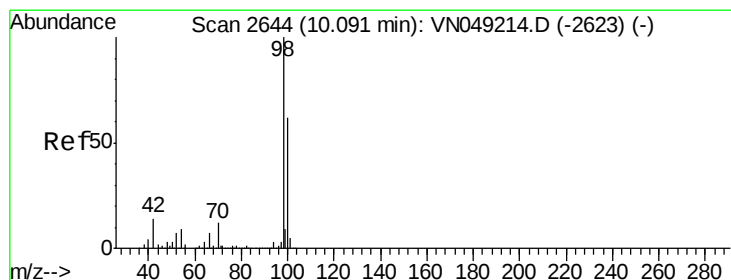
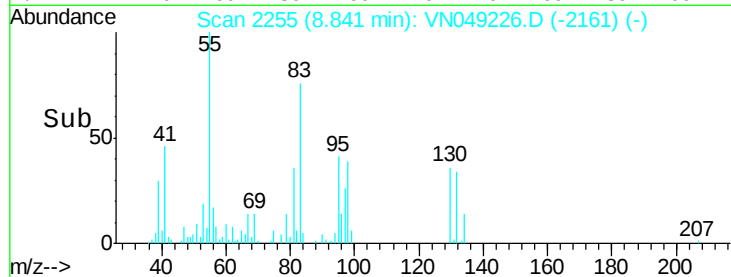
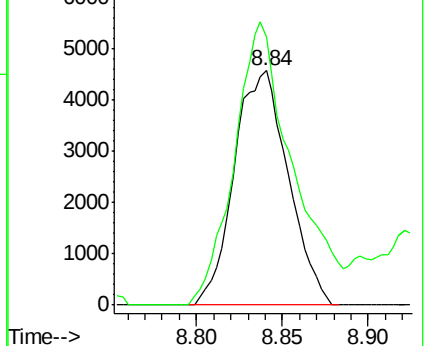
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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 39.970 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049226.D

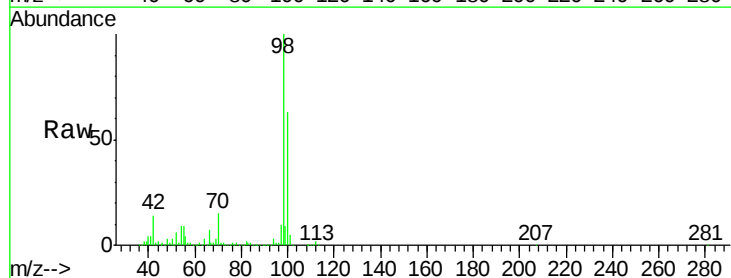
Acq: 14 Jun 2018 14:33

Tgt Ion: 98 Resp: 1495313

Ion Ratio Lower Upper

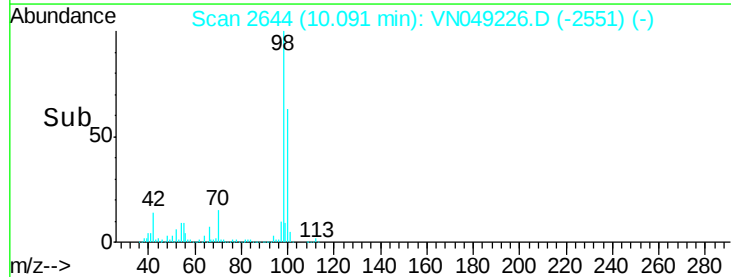
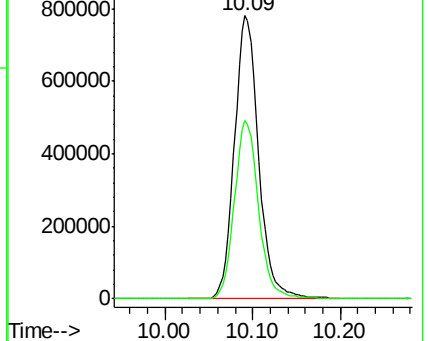
98 100

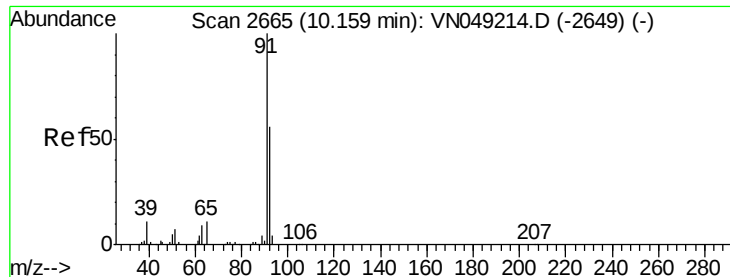
100 63.0 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#52

Toluene

Concen: 91.561 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

MW4

Tot Ion: 92 Resp: 2343015

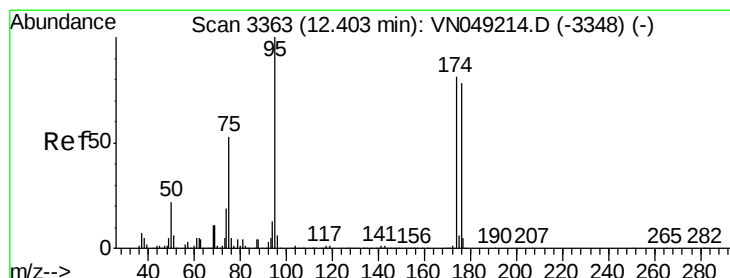
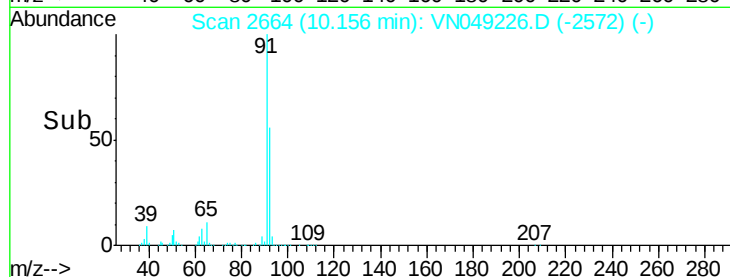
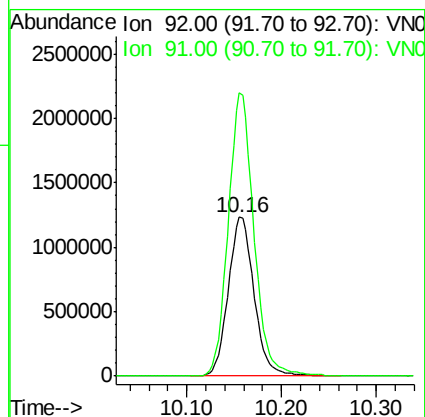
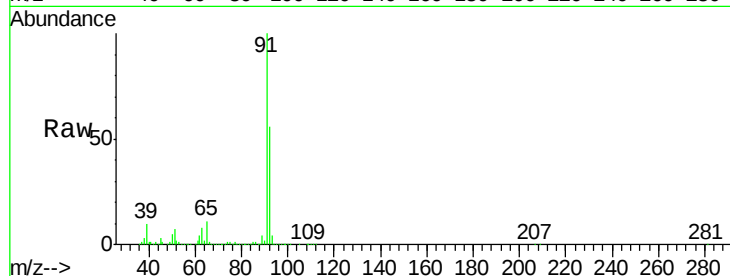
Ion Ratio Lower Upper

92 100

91 177.1 143.4 215.2

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 49.926 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

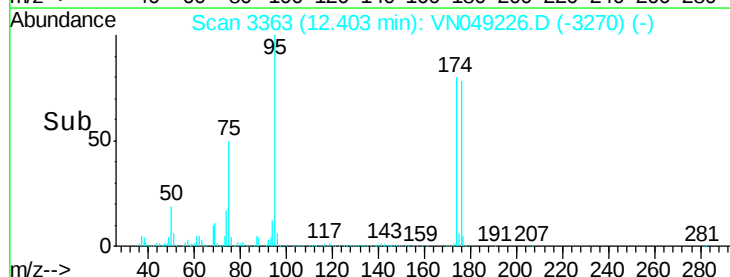
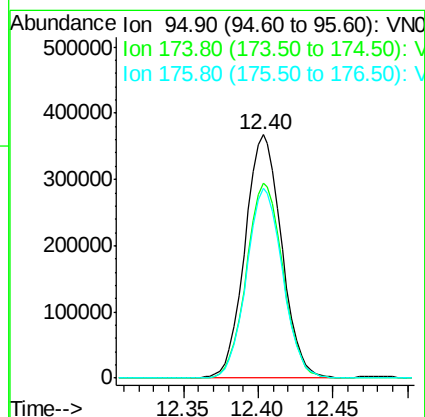
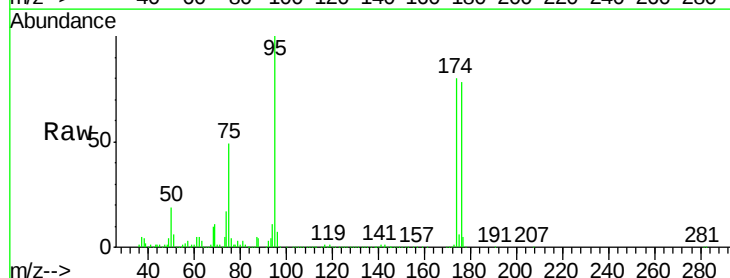
Tgt Ion: 95 Resp: 619896

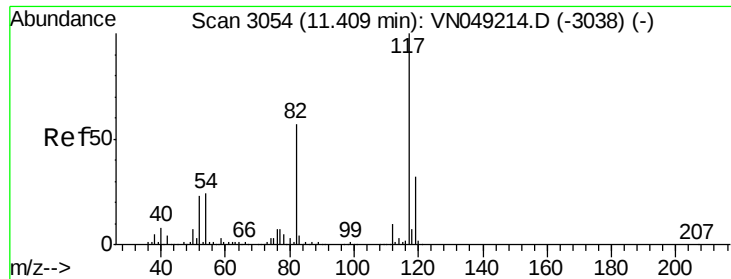
Ion Ratio Lower Upper

95 100

174 80.6 0.0 165.6

176 77.9 0.0 157.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampled :

MW4

Tot Ion:117 Resp: 1250520

Ion Ratio Lower Upper

117 100

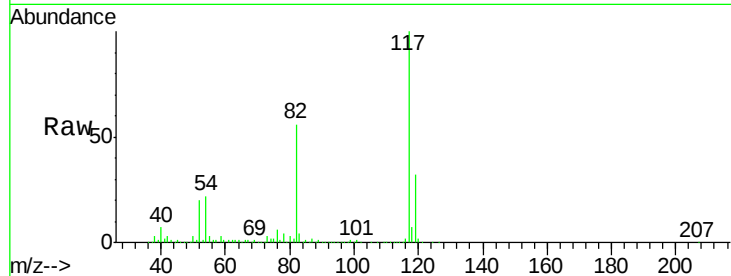
82 56.1 45.9 68.9

119 32.5 25.5 38.3

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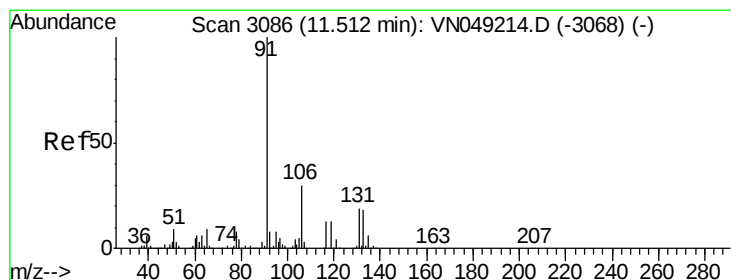
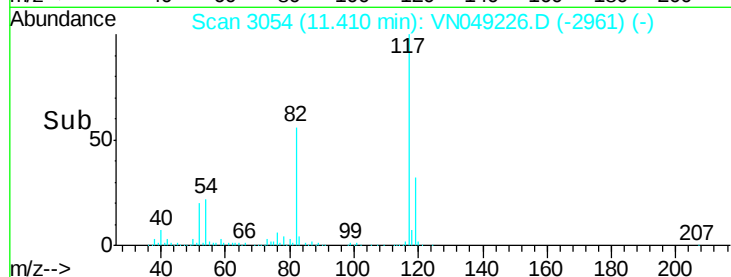
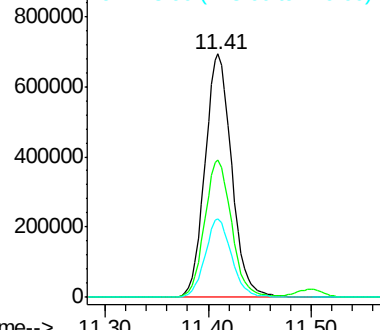
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 362.744 ug/l m

RT: 11.50 min Scan# 3083

Delta R.T. -0.01 min

Lab File: VN049226.D

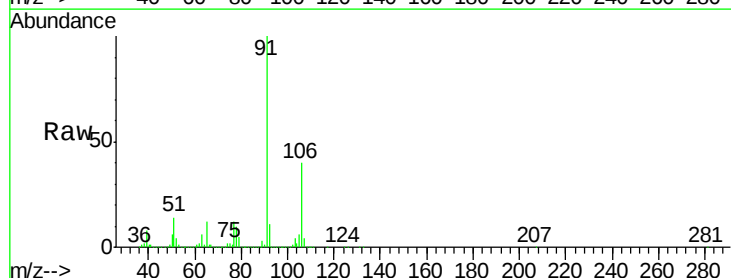
Acq: 14 Jun 2018 14:33

Tgt Ion: 91 Resp:20187943

Ion Ratio Lower Upper

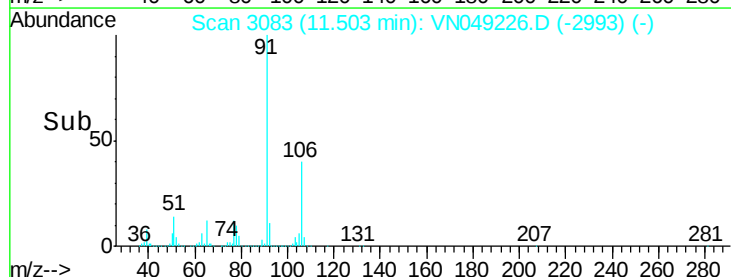
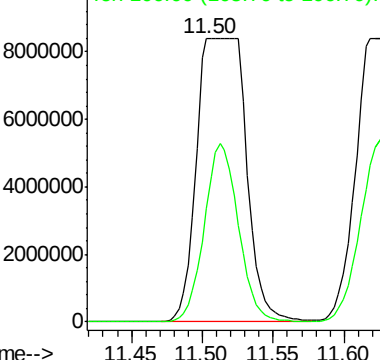
91 100

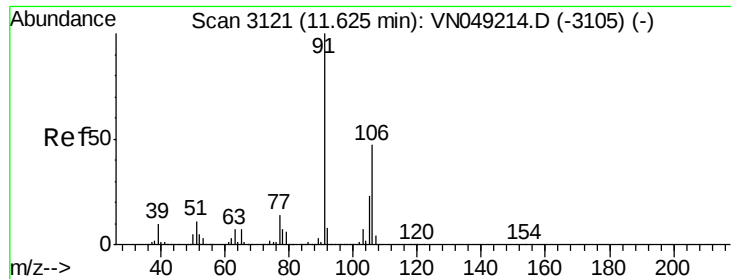
106 40.1 23.9 35.9#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





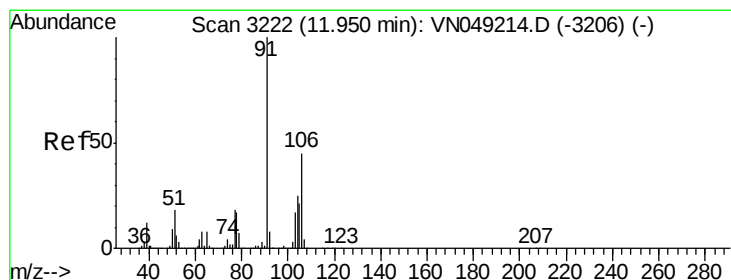
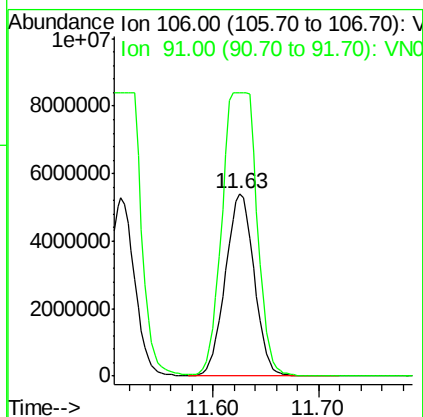
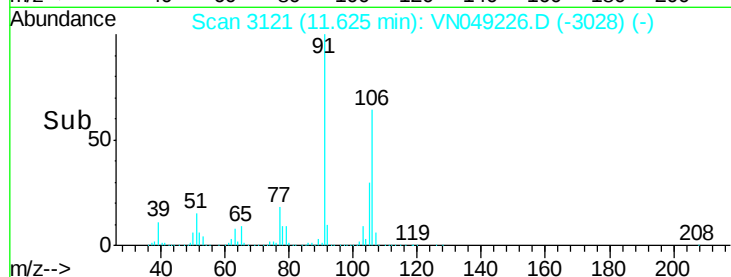
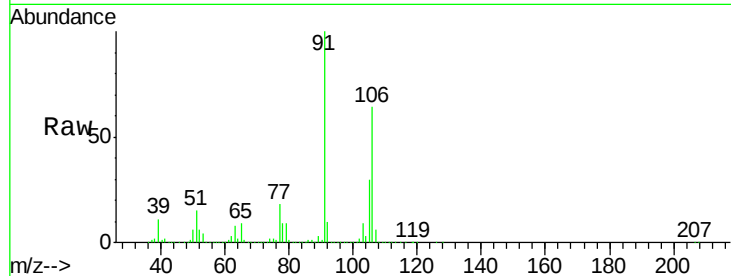
#68
m/p-Xylenes
Concen: 500.964 ug/l
RT: 11.63 min Scan# 3121
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Instrument :
MSVOA_N
ClientSampled :
MW4

Tot Ion:106 Resp:10195467
Ion Ratio Lower Upper
106 100
91 0.0 167.3 250.9#

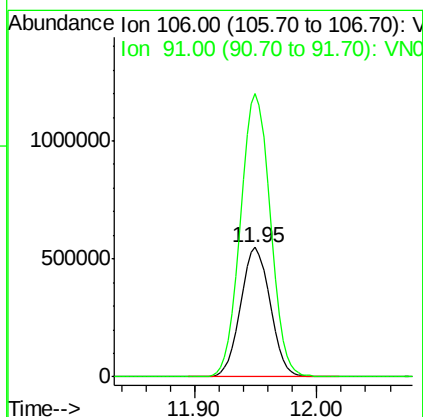
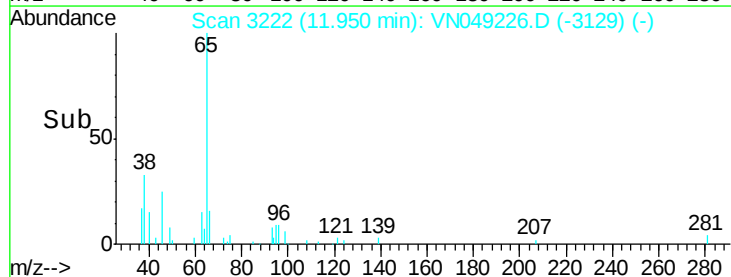
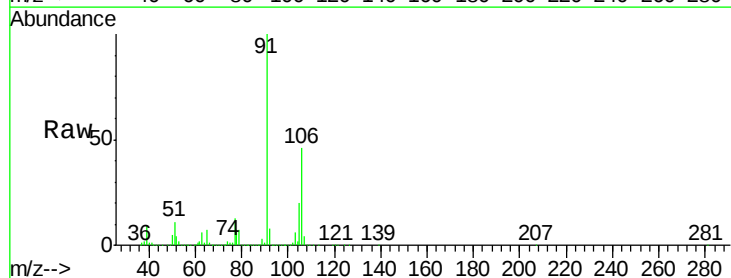
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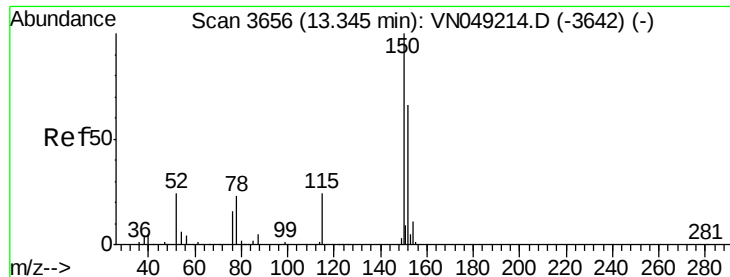
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#69
o-Xylene
Concen: 46.903 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Tgt Ion:106 Resp: 919287
Ion Ratio Lower Upper
106 100
91 220.1 111.0 333.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Instrument :

MSVOA_N

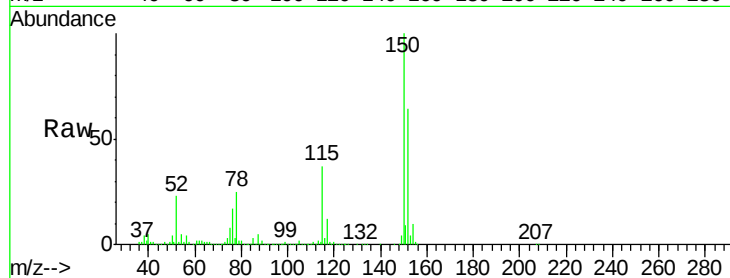
ClientSampled :

MW4

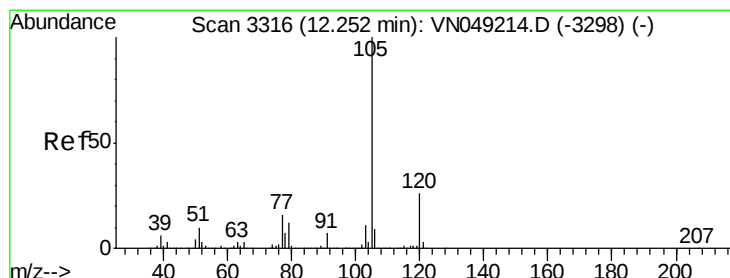
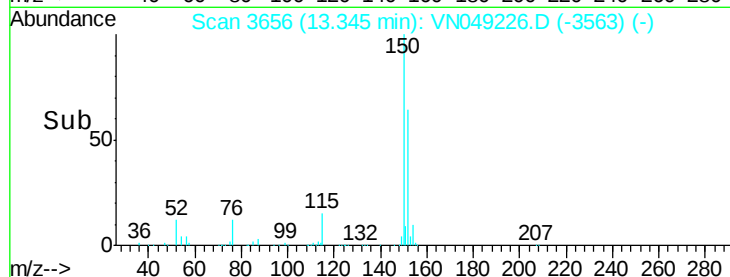
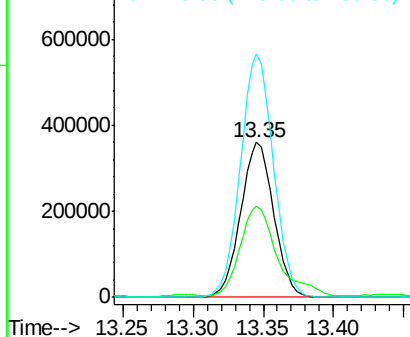
Tot Ion:	152	Resp:	590239
Ion Ratio	Lower	Upper	
152	100		
115	64.8	28.7	86.1
150	157.0	0.0	351.0

Manual Integrations
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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



#73

Isopropylbenzene

Concen: 42.458 ug/l

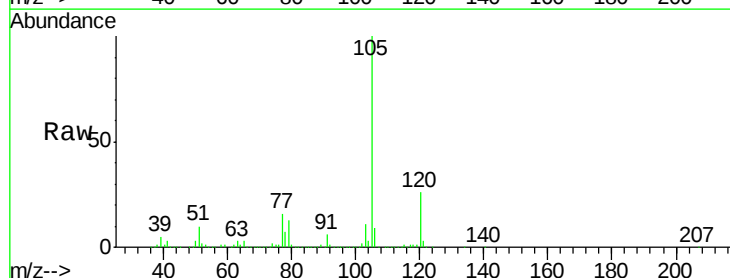
RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

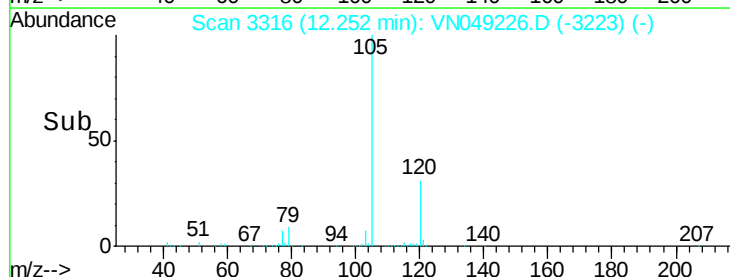
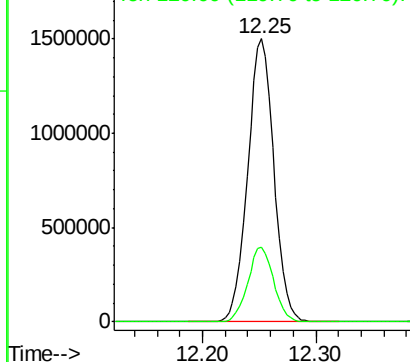
Lab File: VN049226.D

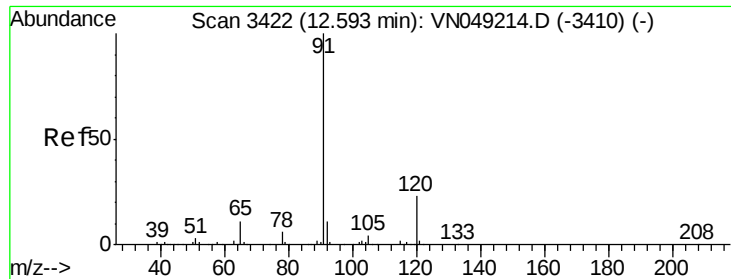
Acq: 14 Jun 2018 14:33

Tgt Ion:	105	Resp:	2407066
Ion Ratio	Lower	Upper	
105	100		
120	26.1	12.8	38.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





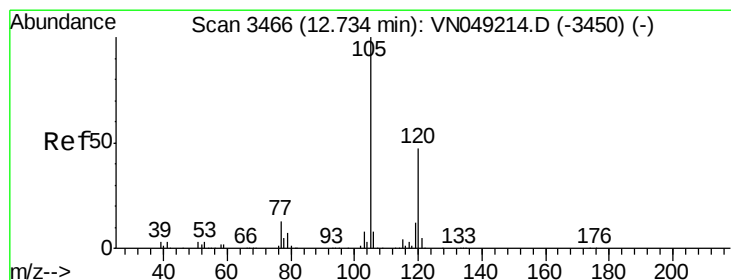
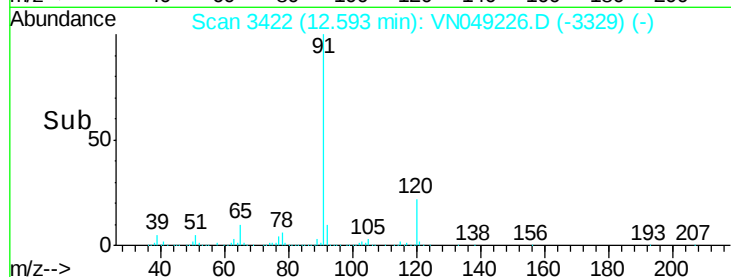
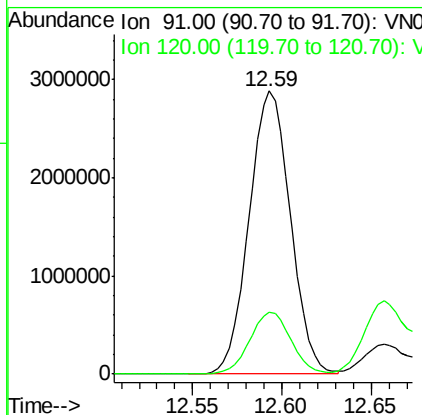
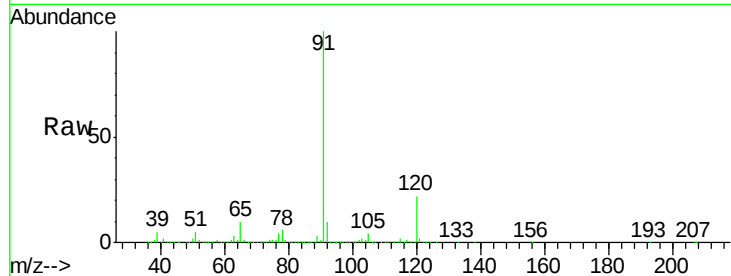
#78
n-propylbenzene
Concen: 74.042 ug/l
RT: 12.59 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Instrument :
MSVOA_N
ClientSampleId :
MW4

Tot Ion: 91 Resp: 4663091
Ion Ratio Lower Upper
91 100
120 21.8 11.2 33.5

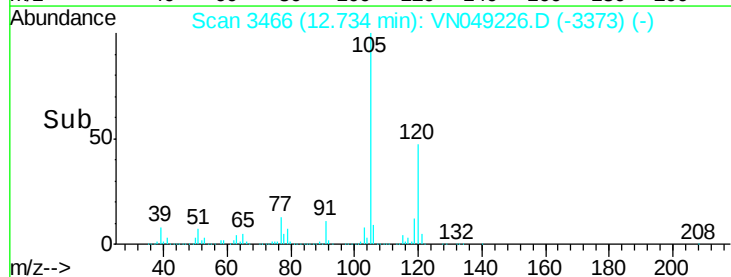
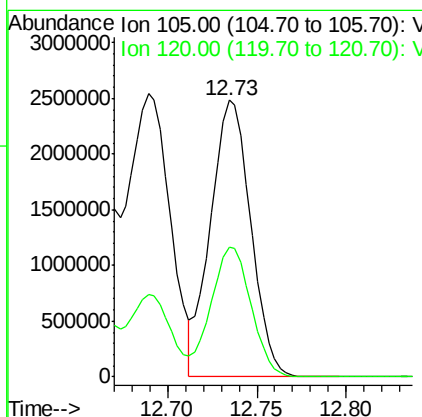
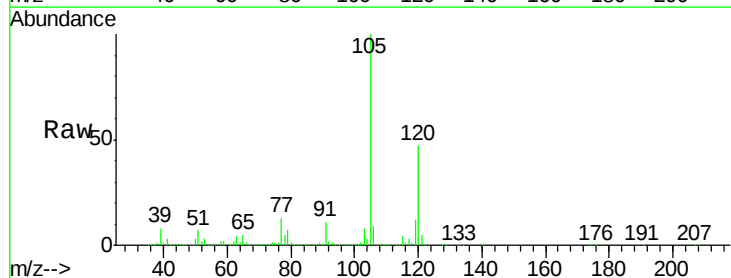
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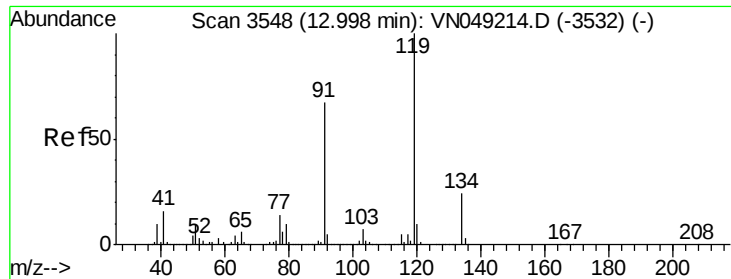
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#80
1,3,5-Trimethylbenzene
Concen: 89.208 ug/l
RT: 12.73 min Scan# 3466
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Tgt Ion: 105 Resp: 3877730
Ion Ratio Lower Upper
105 100
120 46.9 23.5 70.5





#83

tert-Butylbenzene

Concen: 1.190 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Instrument :

MSVOA_N

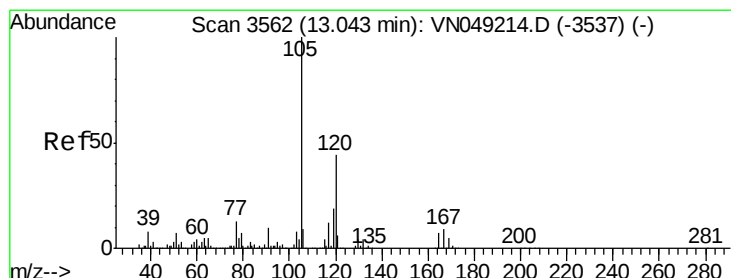
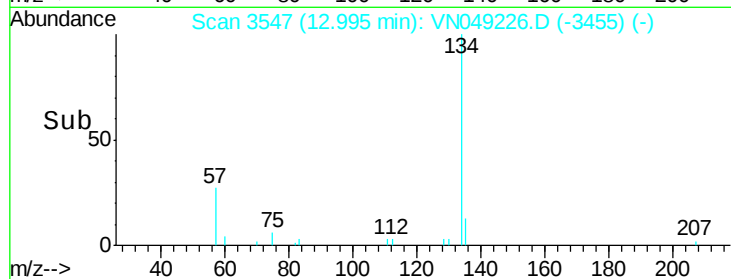
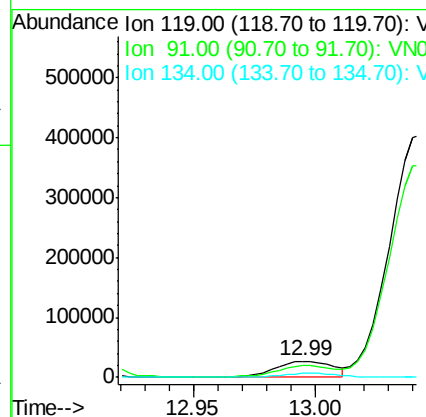
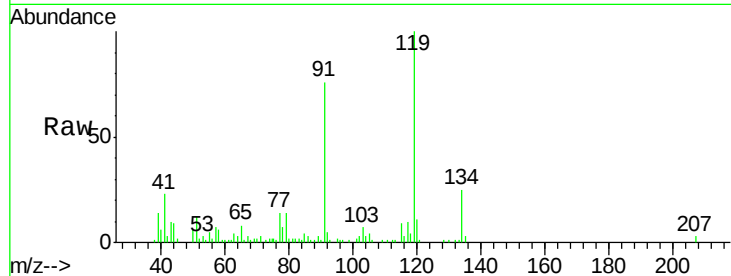
ClientSampled :

MW4

Tot Ion	Ratio	Lower	Upper
119	100		
91	70.5	33.7	101.0
134	25.7	12.9	38.6

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 127.119 ug/l

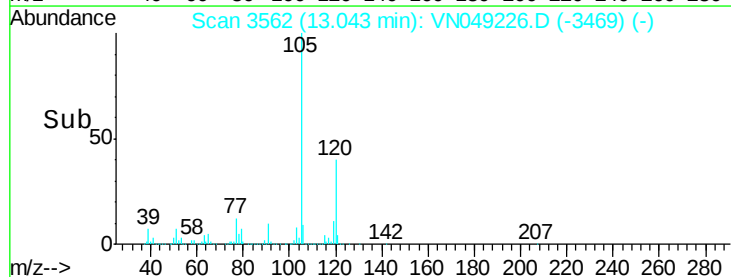
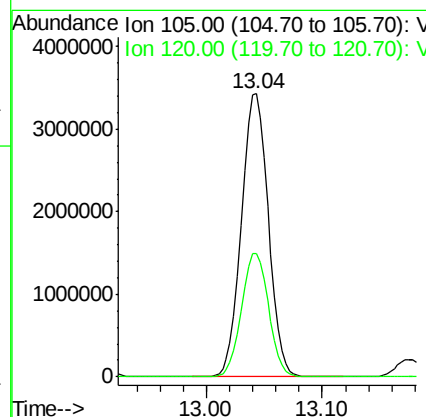
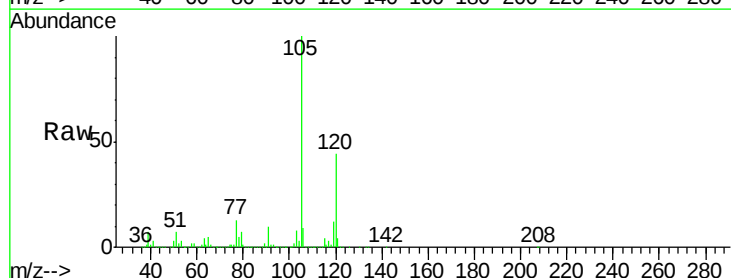
RT: 13.04 min Scan# 3562

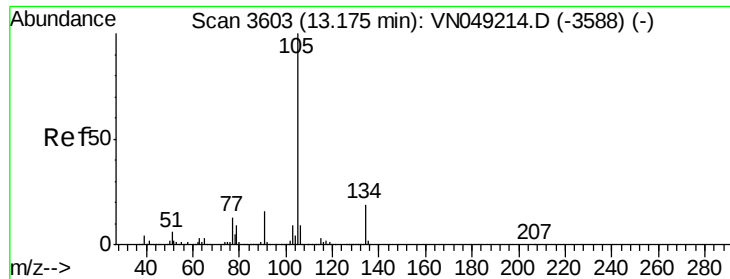
Delta R.T. 0.00 min

Lab File: VN049226.D

Acq: 14 Jun 2018 14:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.2	66.6





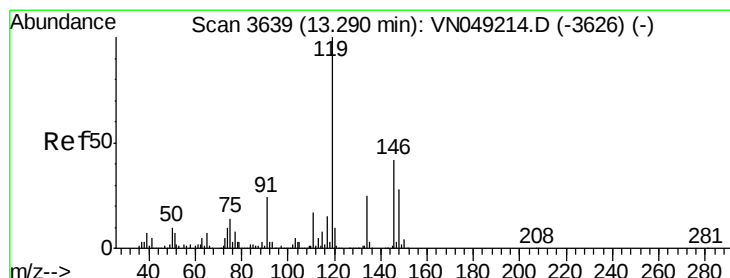
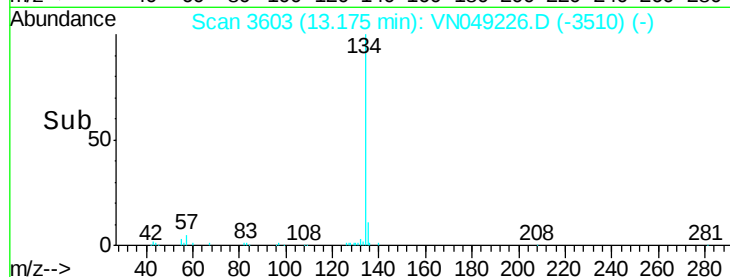
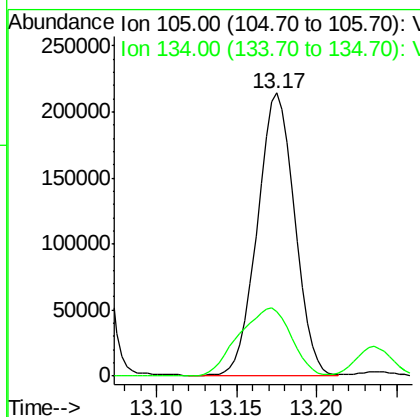
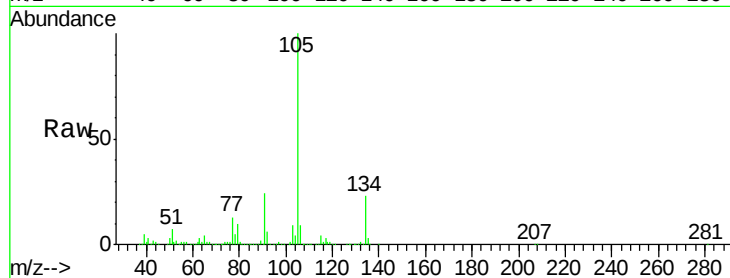
#85
 sec-Butylbenzene
 Concen: 6.847 ug/l
 RT: 13.17 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN049226.D
 Acq: 14 Jun 2018 14:33

Instrument :
 MSVOA_N
 ClientSampled :
 MW4

Tot Ion	Ratio	Lower	Upper
105	100		
134	34.0	9.8	29.3#

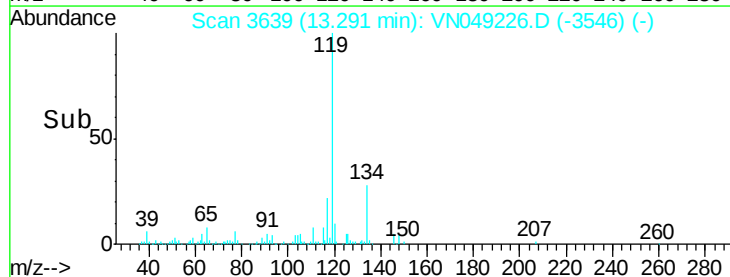
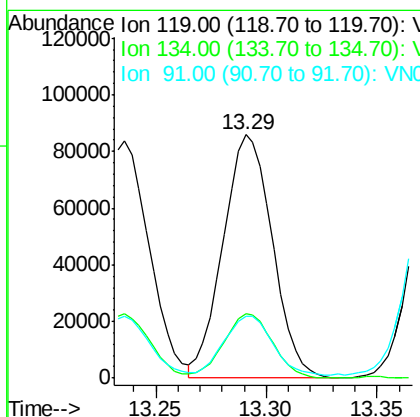
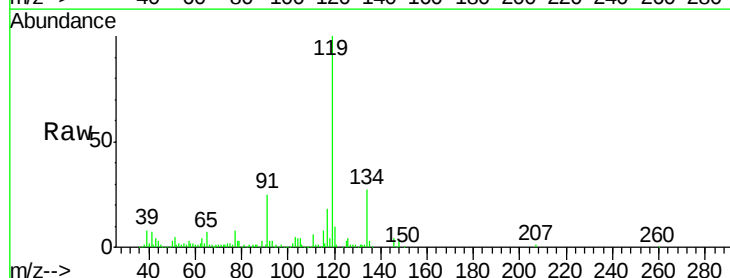
Manual Integrations
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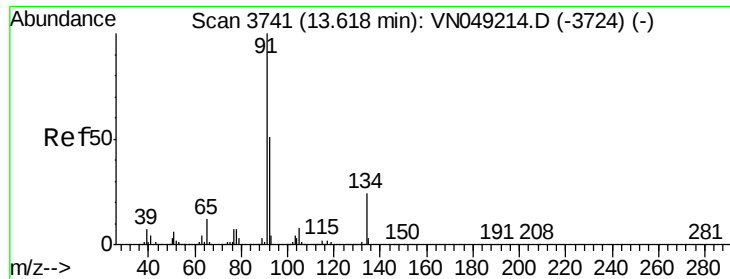
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#86
 p-Isopropyltoluene
 Concen: 3.272 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN049226.D
 Acq: 14 Jun 2018 14:33

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.9	38.6
91	0.0	12.1	36.3#





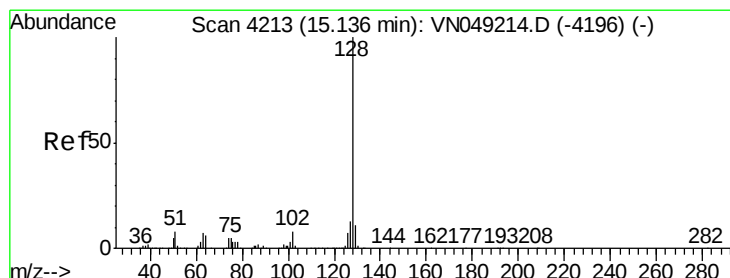
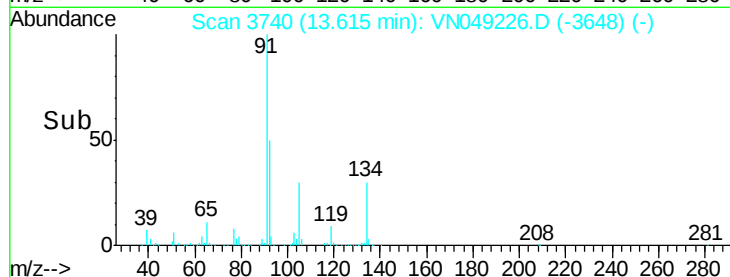
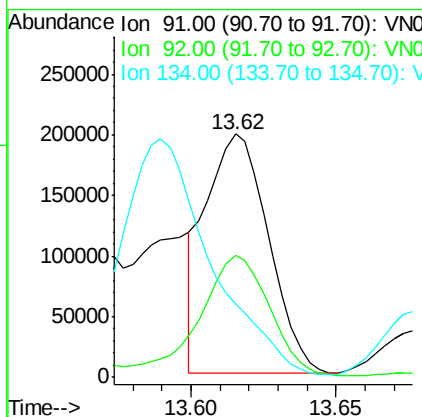
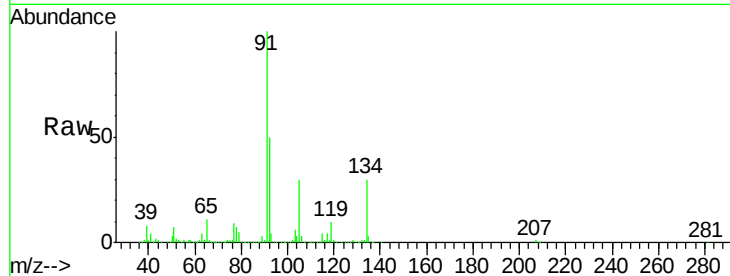
#89
n-Butylbenzene
Concen: 9.620 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Instrument :
MSVOA_N
ClientSampled :
MW4

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.8	25.1	75.4
134	0.0	12.0	36.0

Manual Integrations
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#95
Naphthalene
Concen: 168.408 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049226.D
Acq: 14 Jun 2018 14:33

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.7	8.5	12.7

