

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061418\
 Data File : VN049237.D
 Acq On : 14 Jun 2018 19:16
 Operator : MD\SY
 Sample : J3435-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 NW1

Manual Integrations
 APPROVED

MMDadoda
 6/15/2018 1:15:31 PM

Quant Time: Jun 15 05:55:46 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	650680	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1155456	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1190340	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	460302	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	409682	38.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.98%	
35) Dibromofluoromethane	7.59	113	369094	38.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.18%	
50) Toluene-d8	10.09	98	1458388	39.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	78.40%	
62) 4-Bromofluorobenzene	12.40	95	548007	44.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.76%	
Target Compounds						
					Qvalue	
17) Carbon Disulfide	4.05	76	6681	0.241	ug/l #	92
25) 2-Butanone	6.85	43	41942	11.668	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	14421	1.470	ug/l	85
31) Cyclohexane	7.65	56	1034969	66.340	ug/l	99
39) Methylcyclohexane	9.08	83	369396	24.771	ug/l	99
40) Benzene	8.04	78	390673	8.932	ug/l	99
44) Trichloroethene	8.84	130	14084	1.290	ug/l	80
51) 4-Methyl-2-Pentanone	9.99	43	18351	2.056	ug/l	100
52) Toluene	10.16	92	371618	14.603	ug/l	98
64) Tetrachloroethene	10.63	164	6664	0.559	ug/l	95
67) Ethyl Benzene	11.51	91	2506924	47.323	ug/l	99
68) m/p-Xylenes	11.63	106	468954	24.207	ug/l	99
69) o-Xylene	11.95	106	98159	5.261	ug/l	96
73) Isopropylbenzene	12.25	105	429133	9.706	ug/l	98
78) n-propylbenzene	12.59	91	568749	11.580	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	989430	29.365	ug/l	99
85) sec-Butylbenzene	13.17	105	57955	1.489	ug/l #	66
89) n-Butylbenzene	13.62	91	54794m	3.479	ug/l	
95) Naphthalene	15.14	128	784107	49.156	ug/l	99

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

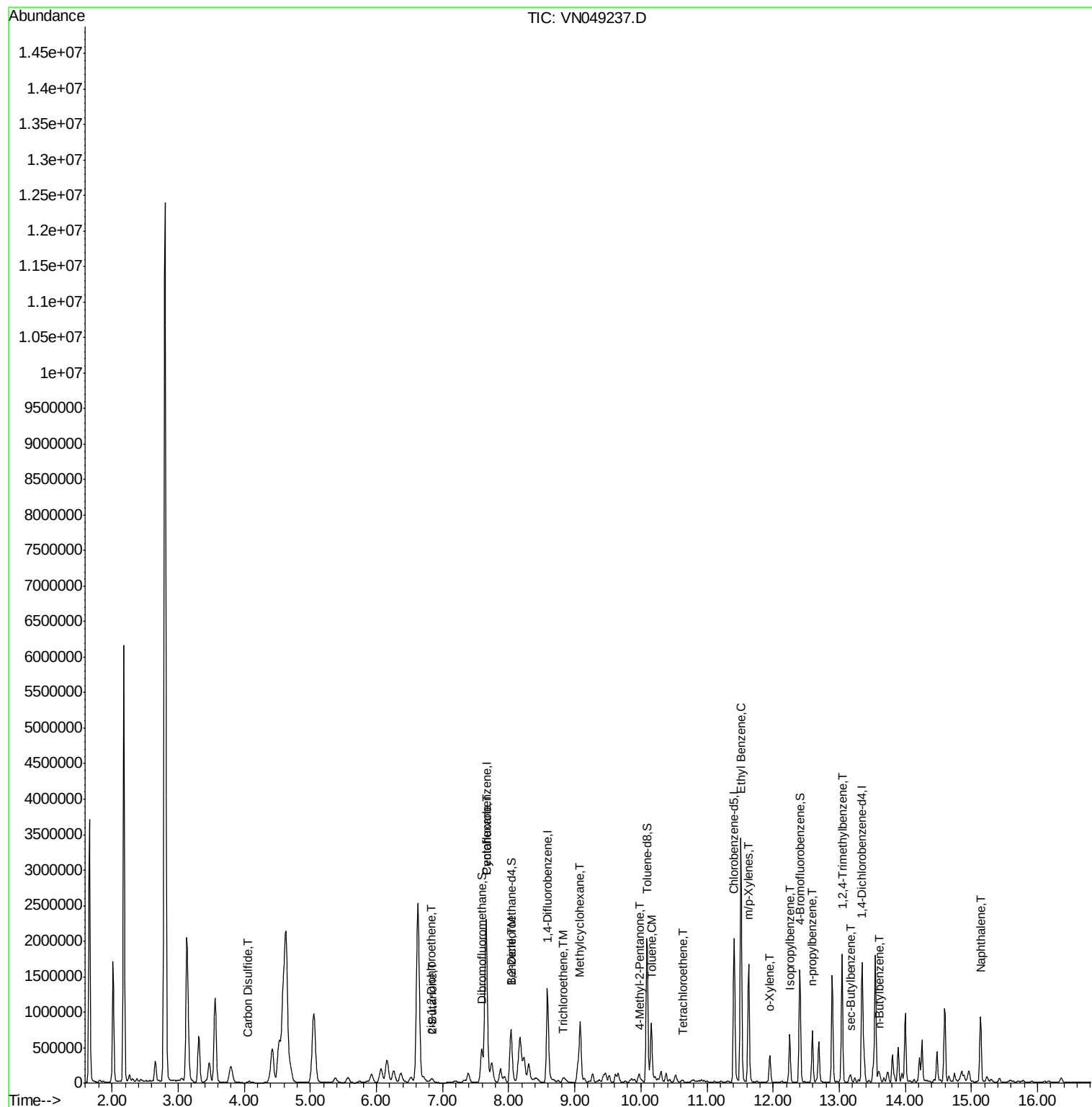
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061418\
Data File : VN049237.D
Acq On : 14 Jun 2018 19:16
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 23 Sample Multiplier: 1

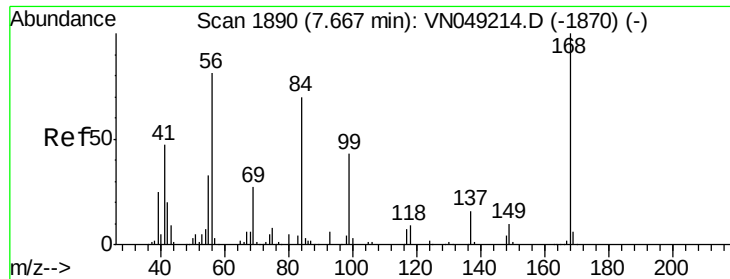
Instrument :
MSVOA_N
ClientSampleId :
NW1

Manual Integrations
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Quant Time: Jun 15 05:55:46 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

Instrument :

MSVOA_N

ClientSampleId :

NW1

Tot Ion:168 Resp: 650680

Ion Ratio Lower Upper

168 100

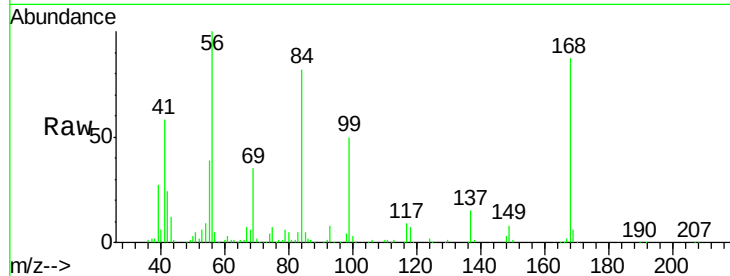
99 56.9 45.8 68.6

Manual Integrations

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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

250000

200000

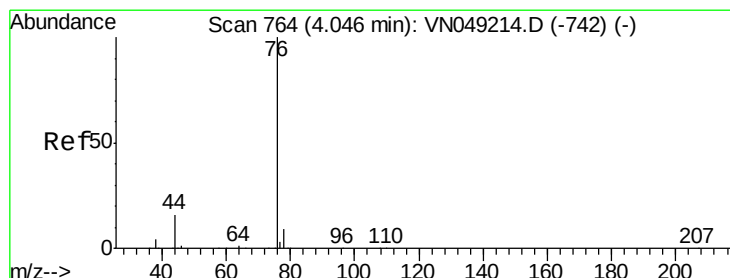
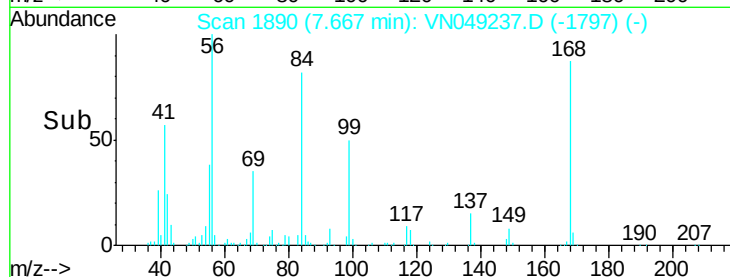
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#17

Carbon Disulfide

Concen: 0.241 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN049237.D

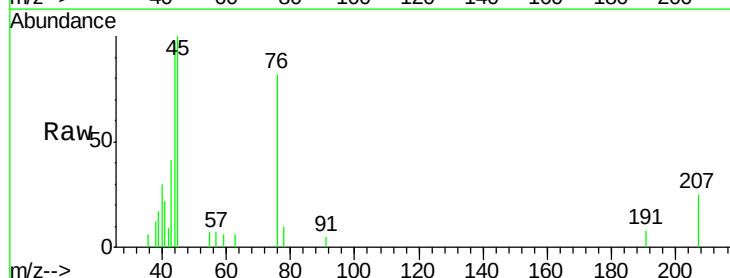
Acq: 14 Jun 2018 19:16

Tgt Ion: 76 Resp: 6681

Ion Ratio Lower Upper

76 100

78 12.3 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.05

3000

2500

2000

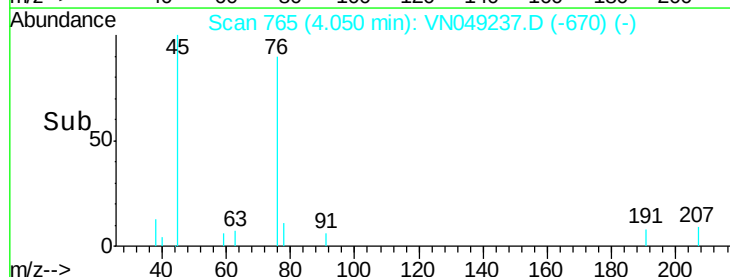
1500

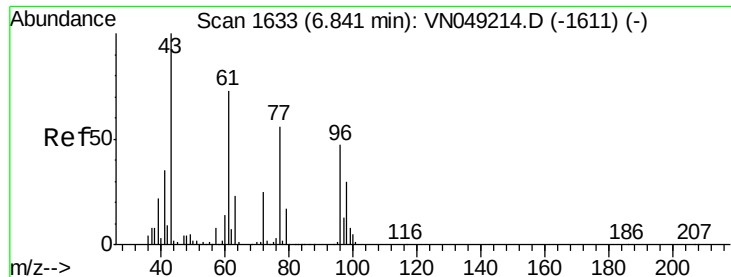
1000

500

0

Time--> 4.00 4.05 4.10





#25

2-Butanone

Concen: 11.668 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

Instrument :

MSVOA_N

ClientSampleId :

NW1

Tot Ion: 43 Resp: 41942

Ion Ratio Lower Upper

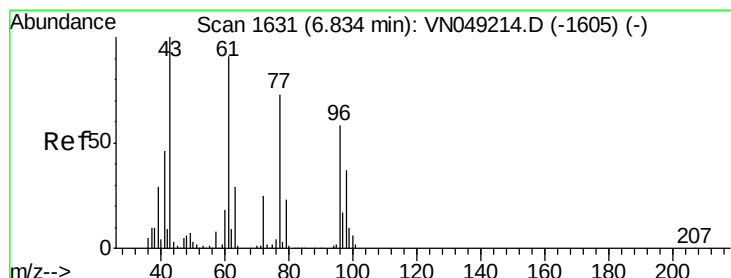
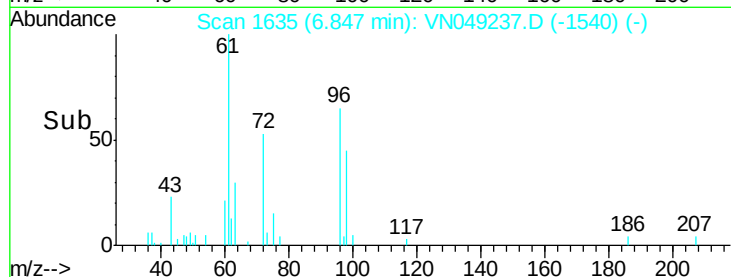
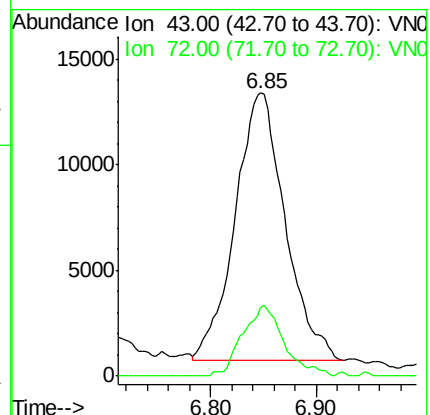
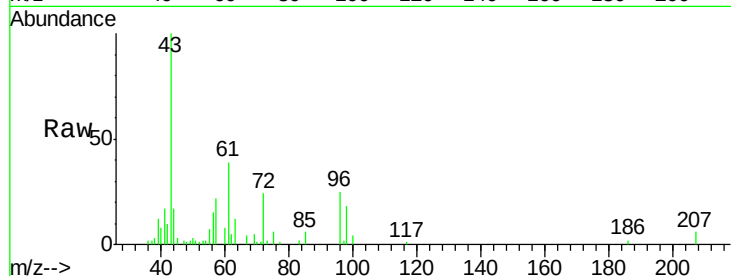
43 100

72 25.7 20.2 30.2

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#27

cis-1,2-Dichloroethene

Concen: 1.470 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

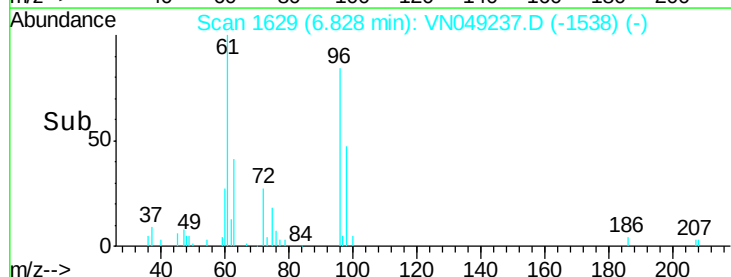
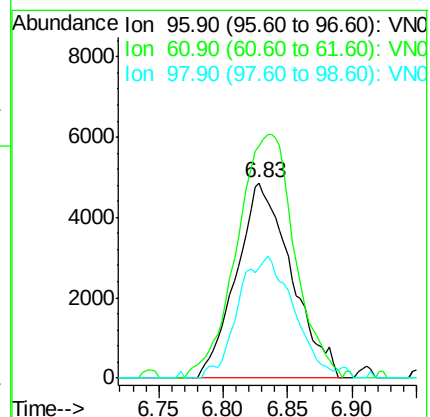
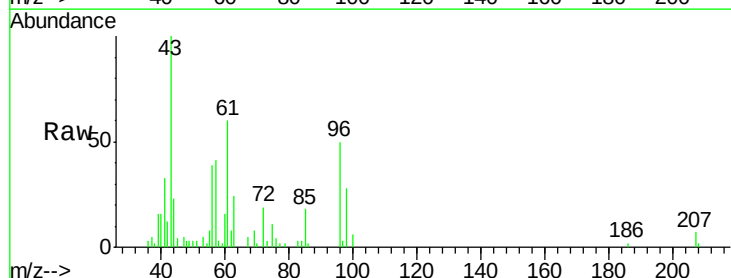
Tgt Ion: 96 Resp: 14421

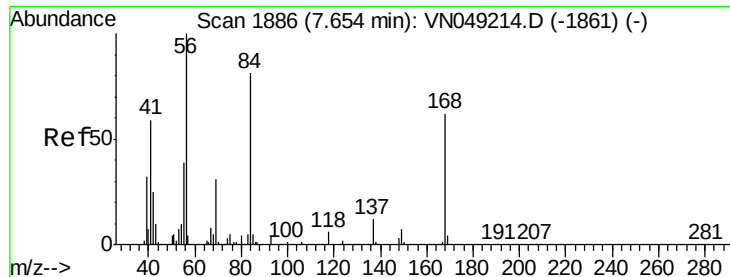
Ion Ratio Lower Upper

96 100

61 131.0 0.0 316.4

98 62.5 0.0 128.4





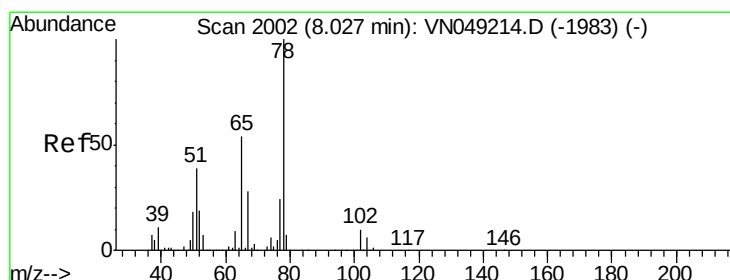
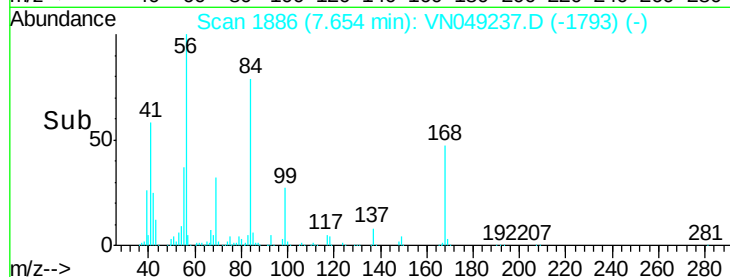
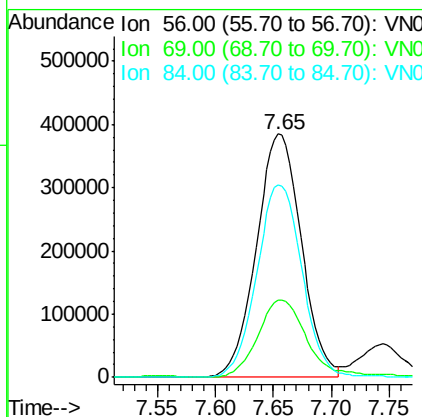
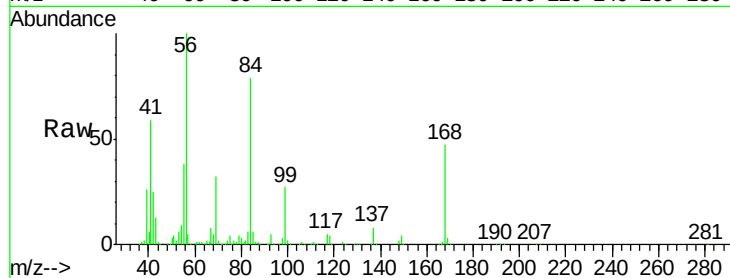
#31
Cyclohexane
Concen: 66.340 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Instrument :
MSVOA_N
ClientSampled :
NW1

Tot Ion: 56 Resp: 1034969
Ion Ratio Lower Upper
56 100
69 31.4 25.0 37.4
84 79.1 64.6 96.8

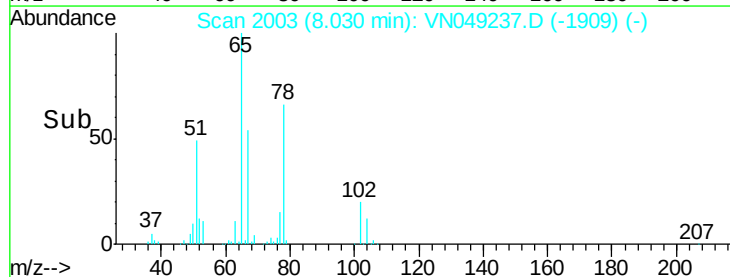
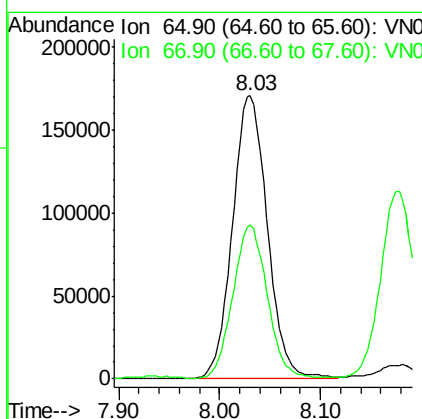
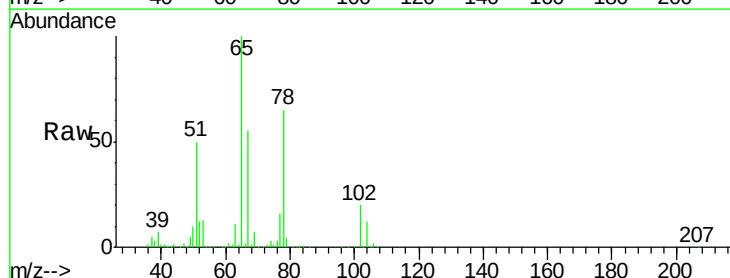
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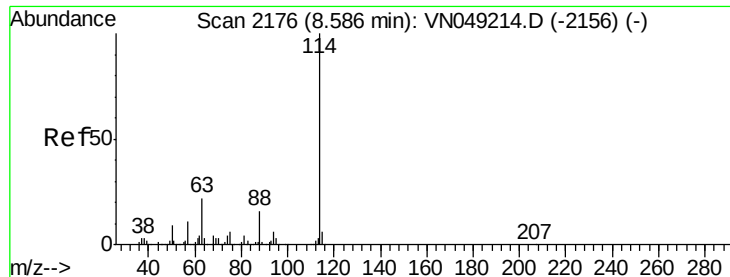
MMDadoda
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#33
1,2-Dichloroethane-d4
Concen: 38.994 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Tgt Ion: 65 Resp: 409682
Ion Ratio Lower Upper
65 100
67 53.4 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

Instrument :

MSVOA_N

ClientSampleId :

NW1

Tot Ion:114 Resp: 1155456

Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.4

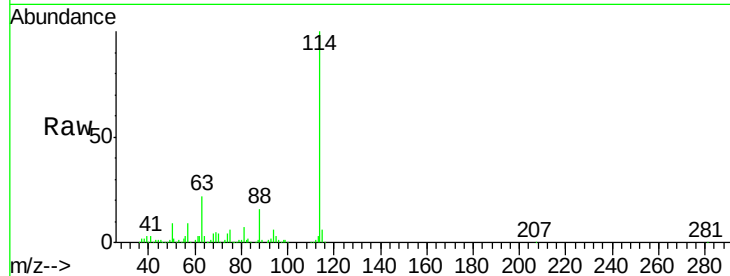
88 15.8 0.0 31.4

Manual Integrations

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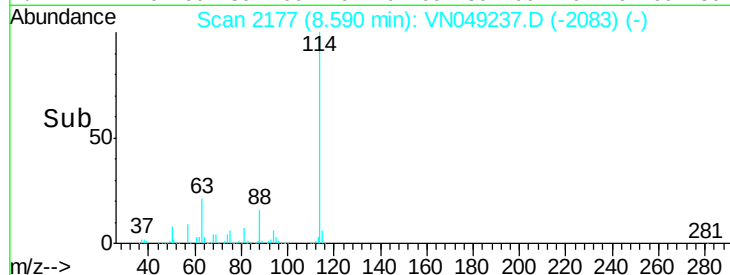
6/15/2018 1:15:31 PM



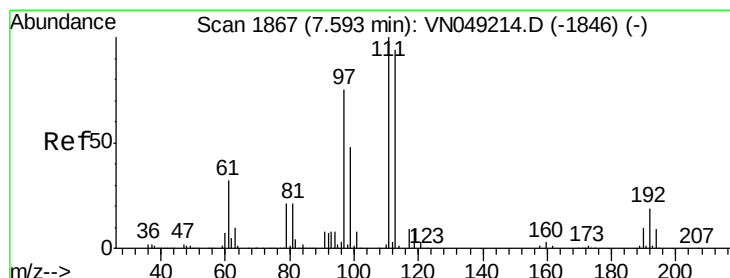
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



Time-->



#35

Dibromofluoromethane

Concen: 38.594 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

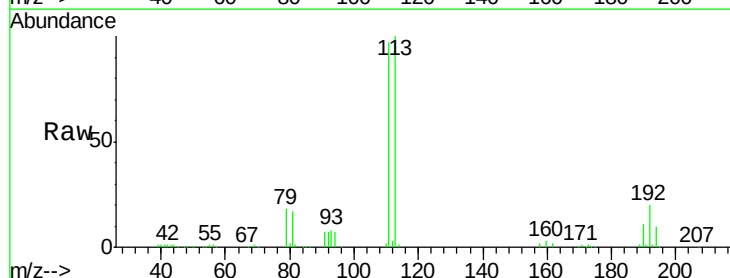
Tgt Ion:113 Resp: 369094

Ion Ratio Lower Upper

113 100

111 99.4 82.4 123.6

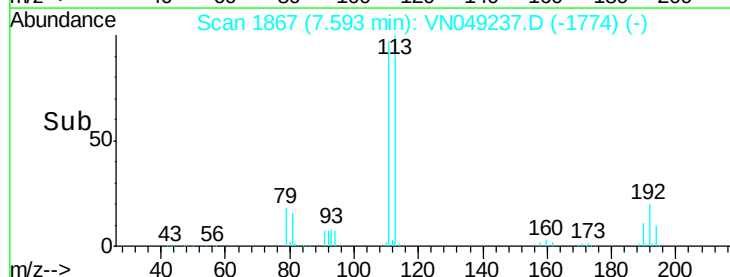
192 19.6 15.0 22.6



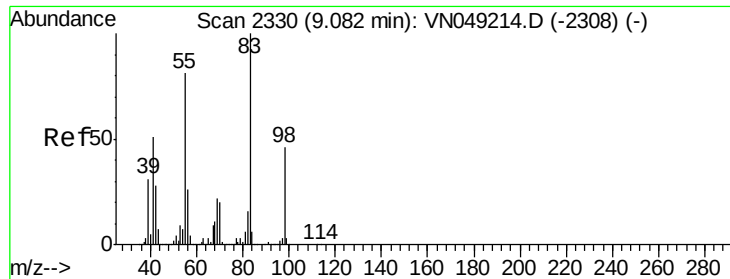
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->



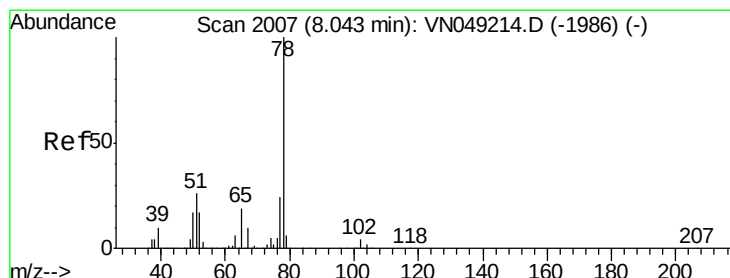
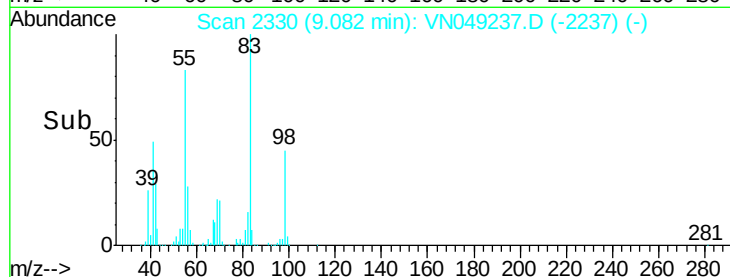
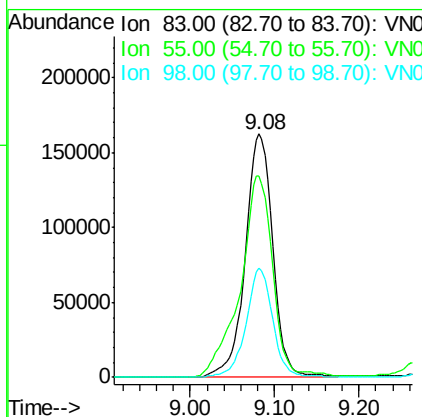
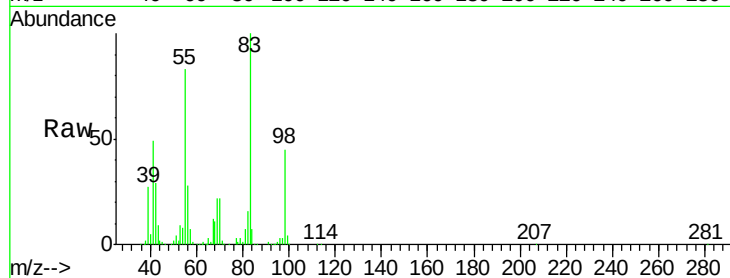
#39
Methylvlcyclohexane
Concen: 24.771 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Instrument :
MSVOA_N
ClientSampleId :
NW1

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.5	65.1	97.7
98	44.8	36.5	54.7

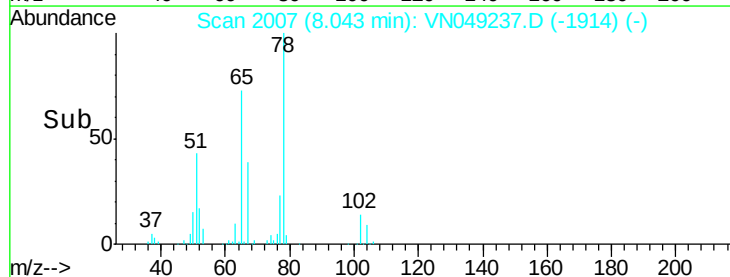
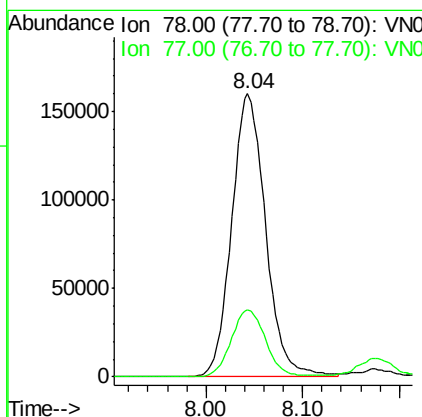
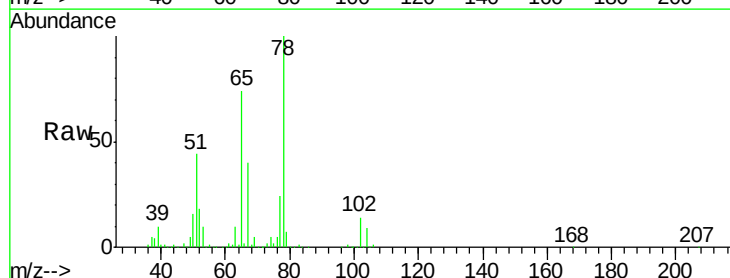
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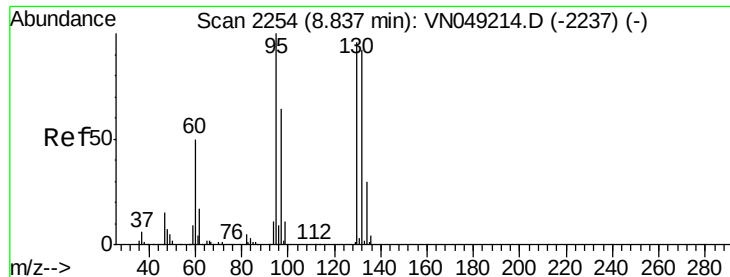
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#40
Benzene
Concen: 8.932 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.4	29.0





#44

Trichloroethene

Concen: 1.290 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

Instrument :

MSVOA_N

ClientSampleId :

NW1

Tot Ion:130 Resp: 14084

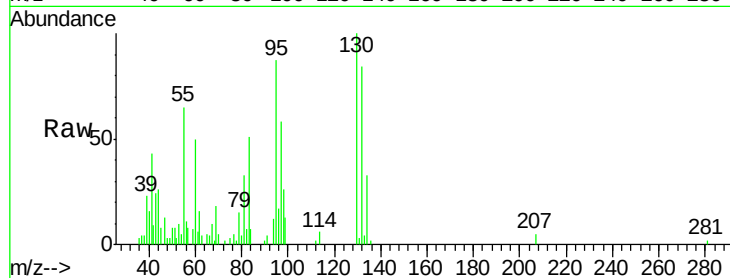
Ion Ratio Lower Upper

130 100

95 84.1 0.0 208.6

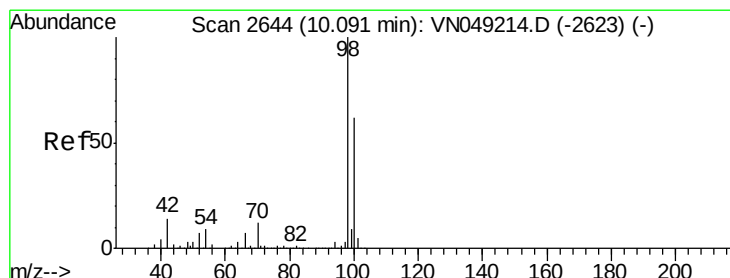
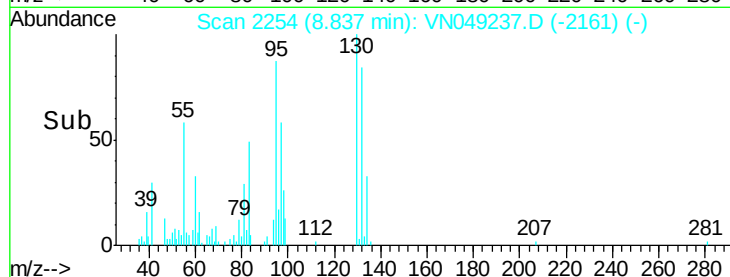
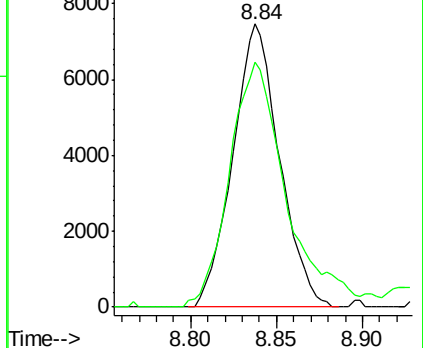
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Abundance Ion 129.80 (129.50 to 130.50): VN049214.D (-2237) (-)

Ion 94.90 (94.60 to 95.60): VN049214.D (-2237) (-)



#50

Toluene-d8

Concen: 39.200 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049237.D

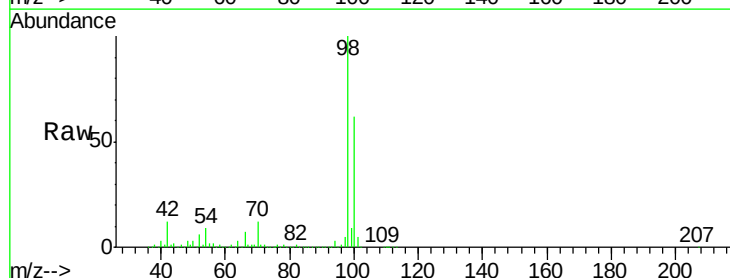
Acq: 14 Jun 2018 19:16

Tgt Ion: 98 Resp: 1458388

Ion Ratio Lower Upper

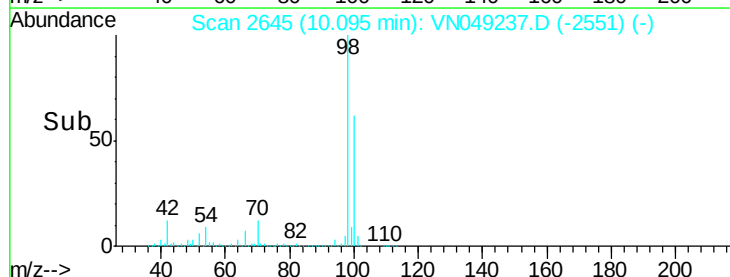
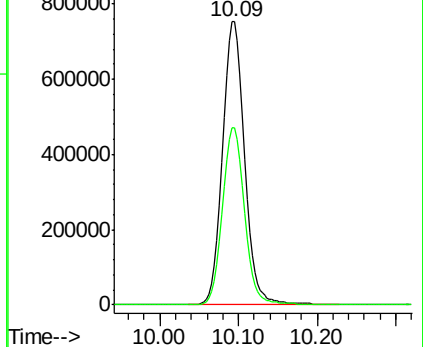
98 100

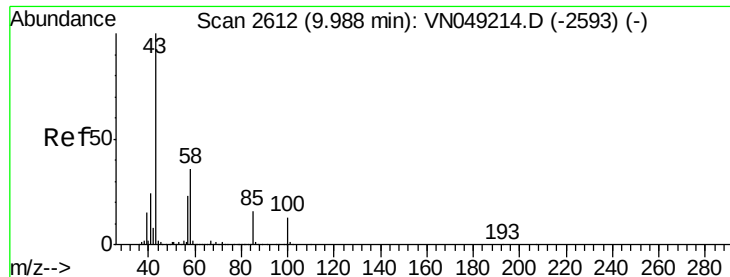
100 62.7 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049214.D (-2623) (-)

Ion 100.00 (99.70 to 100.70): VN049214.D (-2623) (-)





#51

4-Methyl-2-Pentanone

Concen: 2.056 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

Instrument :

MSVOA_N

ClientSampled :

NW1

Tot Ion: 43 Resp: 18351

Ion Ratio Lower Upper

43 100

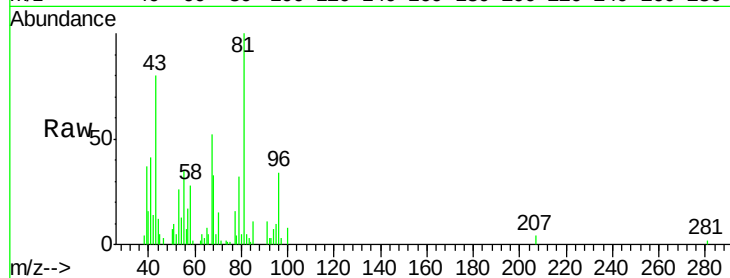
58 36.4 29.0 43.6

Manual Integrations

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6/15/2018 1:15:31 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

10000

8000

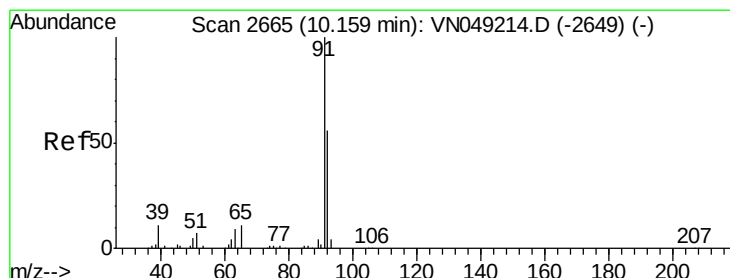
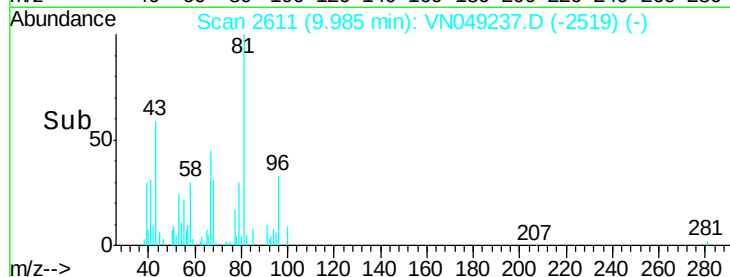
6000

4000

2000

0

Time-->



#52

Toluene

Concen: 14.603 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN049237.D

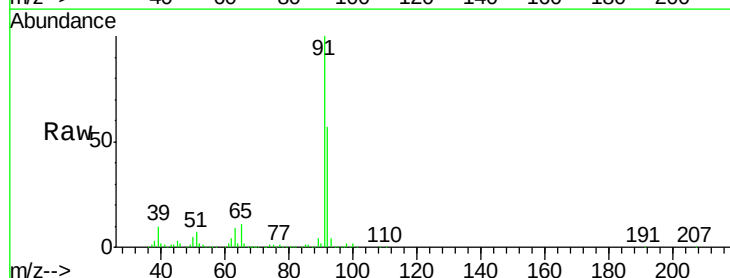
Acq: 14 Jun 2018 19:16

Tgt Ion: 92 Resp: 371618

Ion Ratio Lower Upper

92 100

91 176.5 143.4 215.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

400000

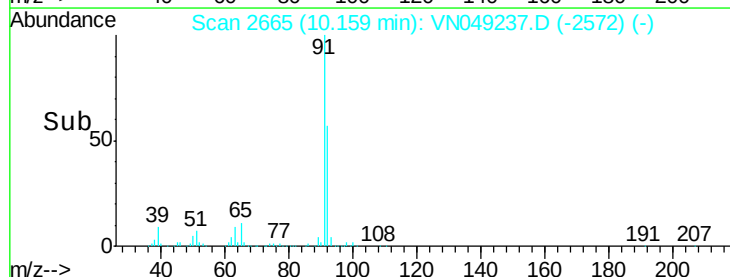
300000

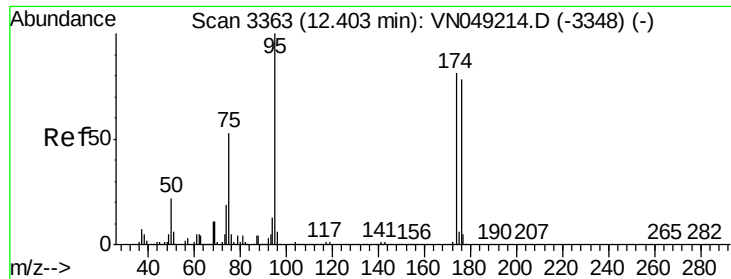
200000

100000

0

Time-->





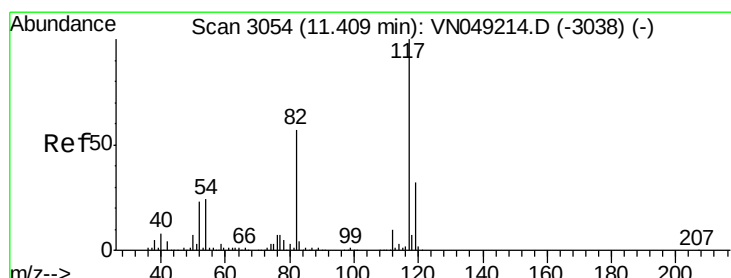
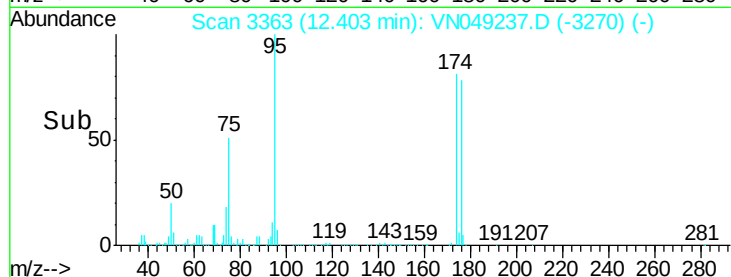
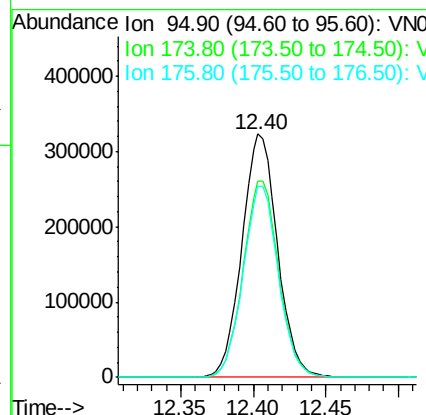
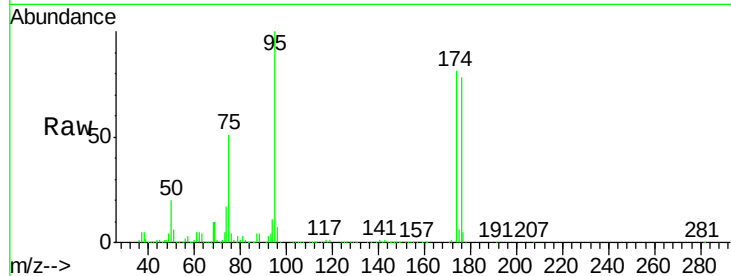
#62
4-Bromofluorobenzene
Concen: 44.382 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Instrument :
MSVOA_N
ClientSampleId :
NW1

Tot Ion	Ratio	Resp	Lower	Upper
95	100	548007		
174	81.1	0.0	165.6	
176	78.5	0.0	157.4	

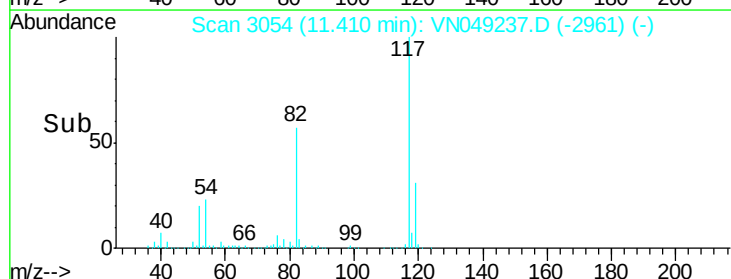
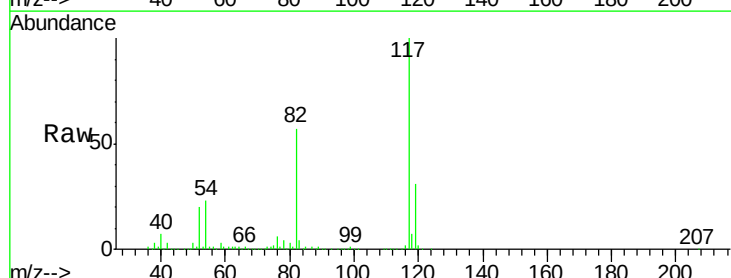
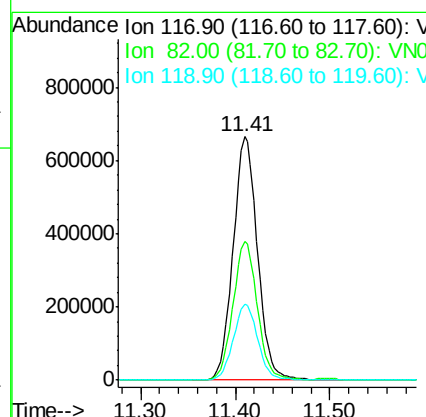
Manual Integrations
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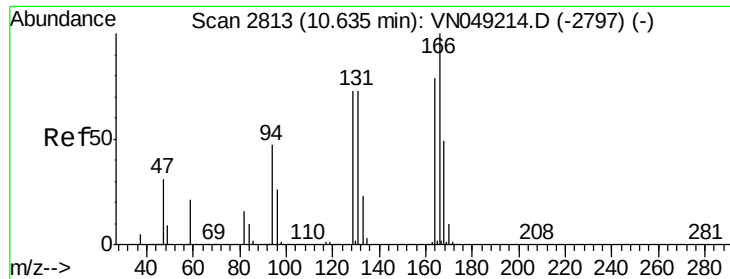
MMDadoda
6/15/2018 1:15:31 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1190340		
82	57.1	45.9	68.9	
119	31.2	25.5	38.3	





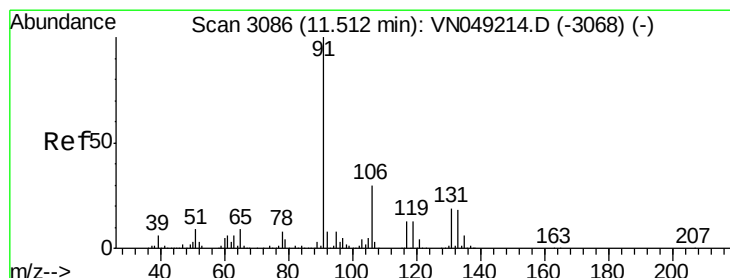
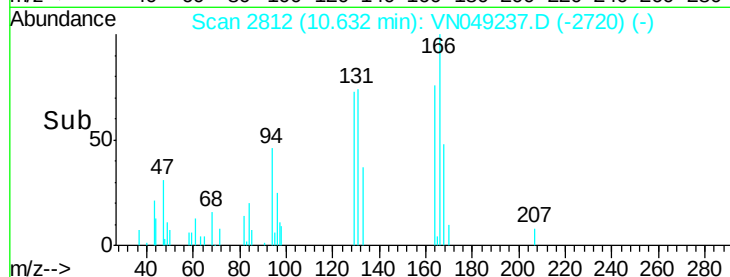
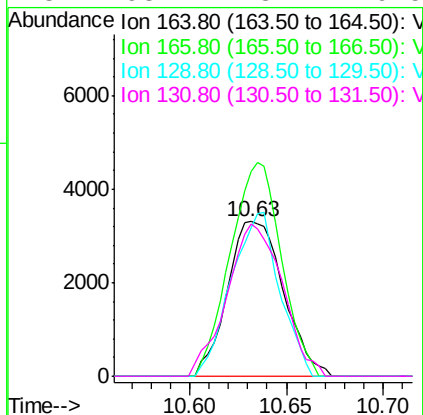
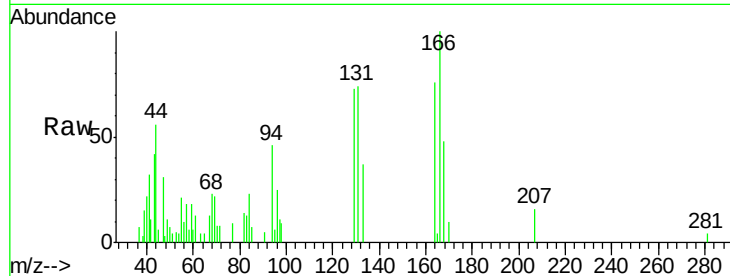
#64
Tetrachloroethene
Concen: 0.559 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Instrument :
MSVOA_N
ClientSampled :
NW1

Tot Ion	Ratio	Lower	Upper
164	100		
166	132.3	101.4	152.2
129	96.0	74.1	111.1
131	98.4	73.7	110.5

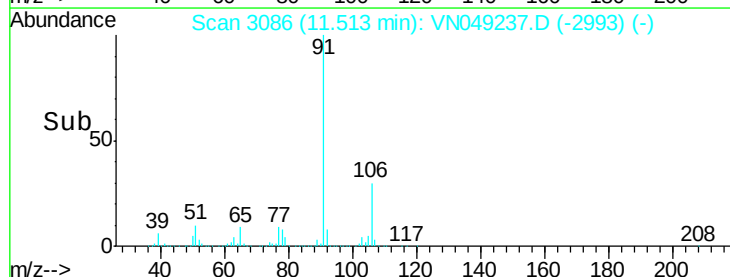
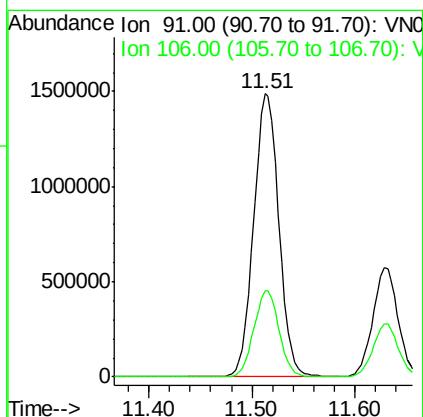
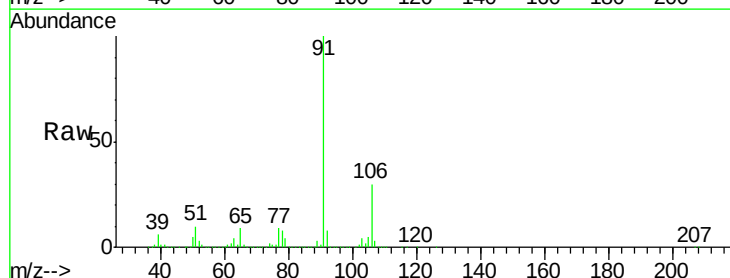
Manual Integrations
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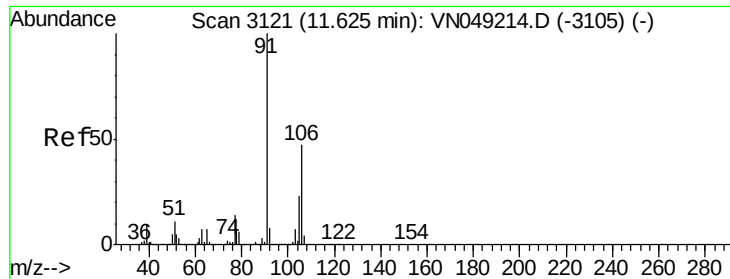
MMDadoda
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#67
Ethyl Benzene
Concen: 47.323 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.4	23.9	35.9





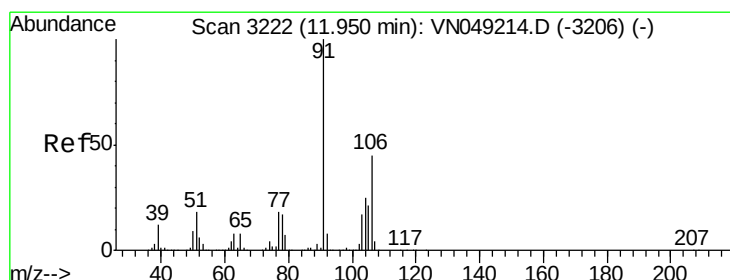
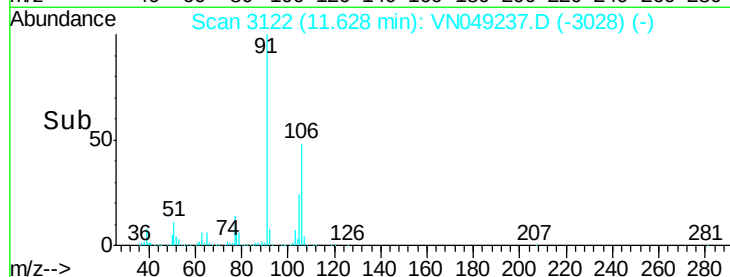
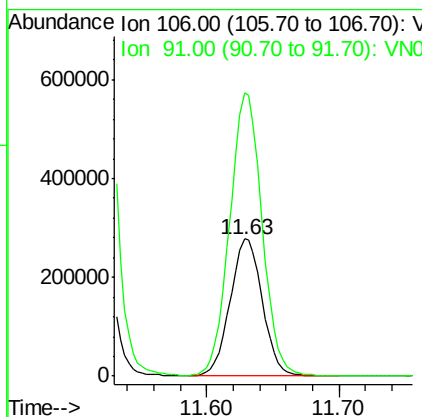
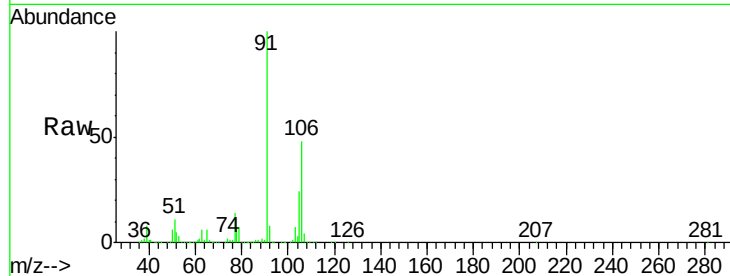
#68
m/p-Xylenes
Concen: 24.207 ug/l
RT: 11.63 min Scan# 3122
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Instrument :
MSVOA_N
ClientSampleId :
NW1

Tot Ion:106 Resp: 468954
Ion Ratio Lower Upper
106 100
91 206.8 167.3 250.9

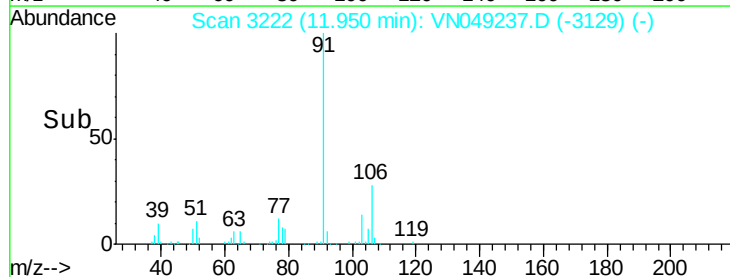
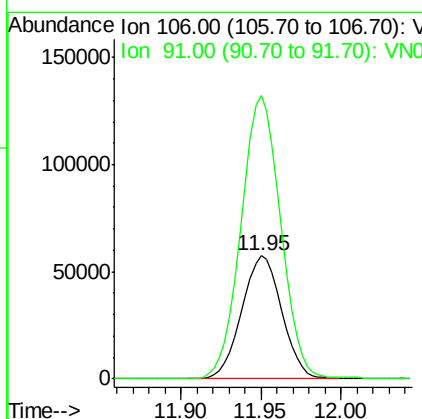
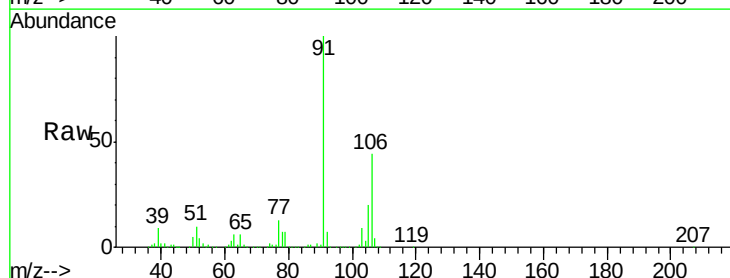
Manual Integrations
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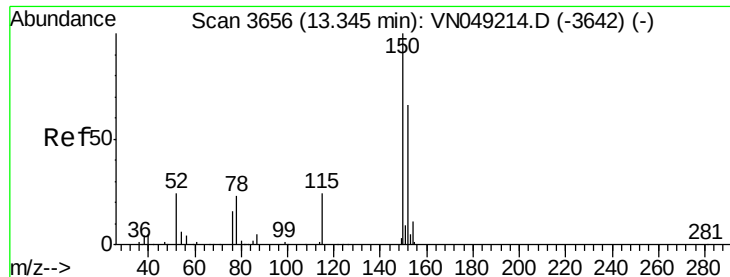
MMDadoda
6/15/2018 1:15:31 PM



#69
o-Xylene
Concen: 5.261 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Tgt Ion:106 Resp: 98159
Ion Ratio Lower Upper
106 100
91 228.0 111.0 333.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

Instrument :

MSVOA_N

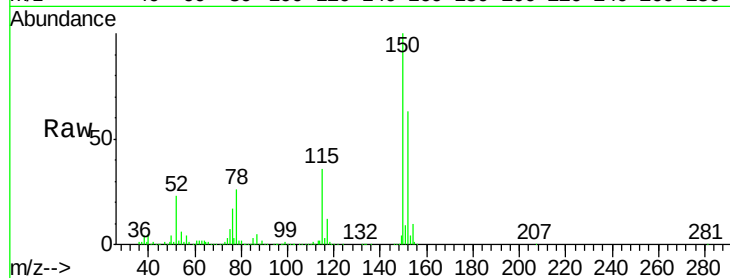
ClientSampleId :

NW1

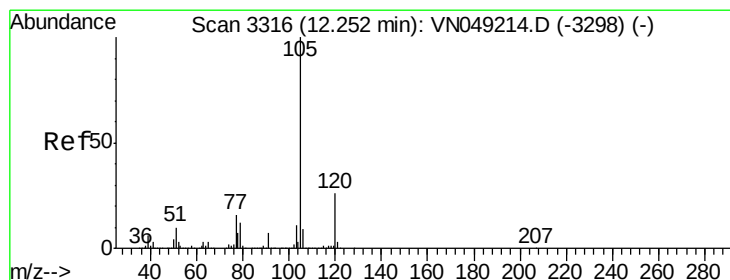
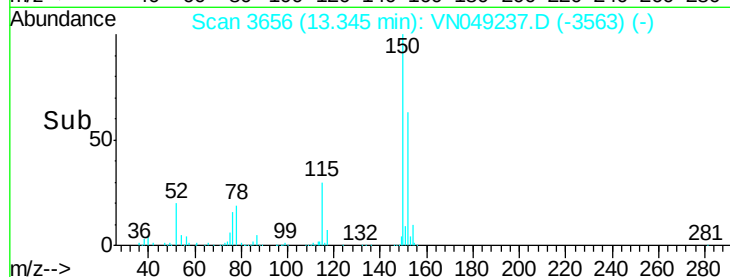
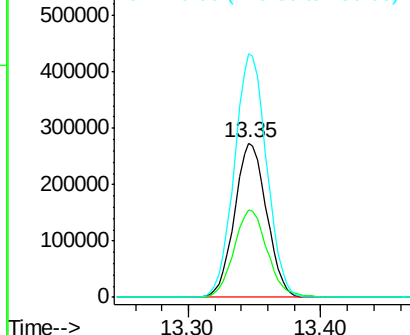
Tot Ion:	152	Resp:	460302
Ion Ratio	Lower	Upper	
152	100		
115	58.6	28.7	86.1
150	158.2	0.0	351.0

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: 9.706 ug/l

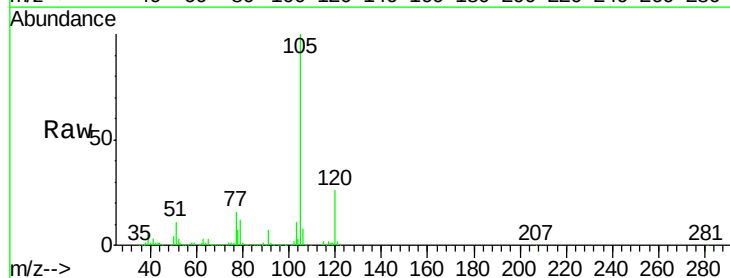
RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

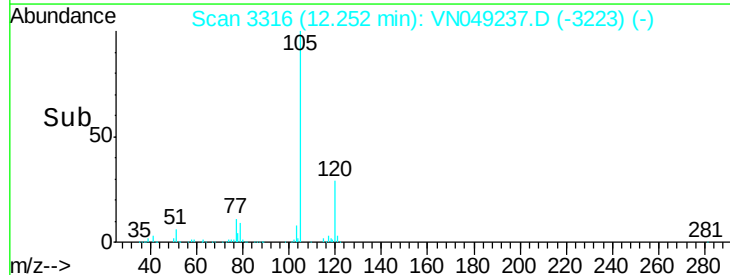
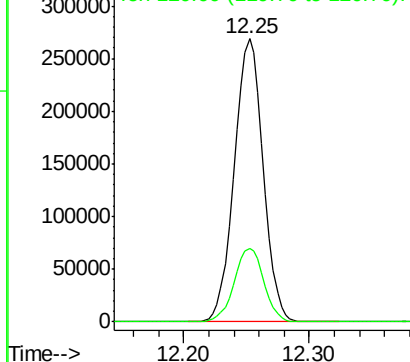
Lab File: VN049237.D

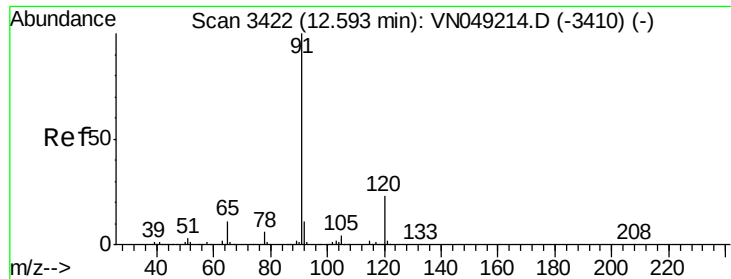
Acq: 14 Jun 2018 19:16

Tgt Ion:	105	Resp:	429133
Ion Ratio	Lower	Upper	
105	100		
120	26.6	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: 11.580 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

Instrument :

MSVOA_N

ClientSampled :

NW1

Tot Ion: 91 Resp: 568749

Ion Ratio Lower Upper

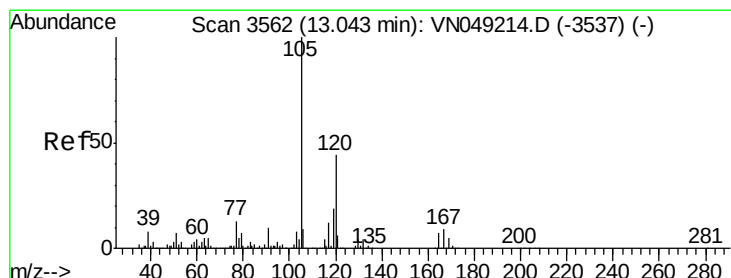
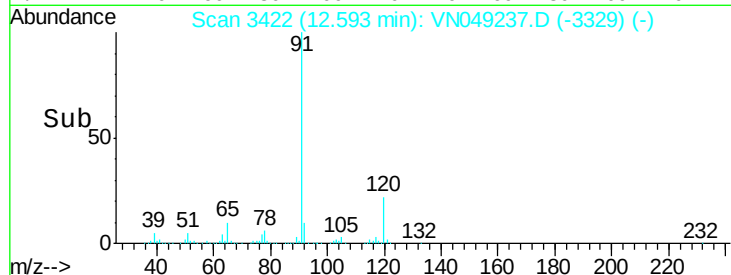
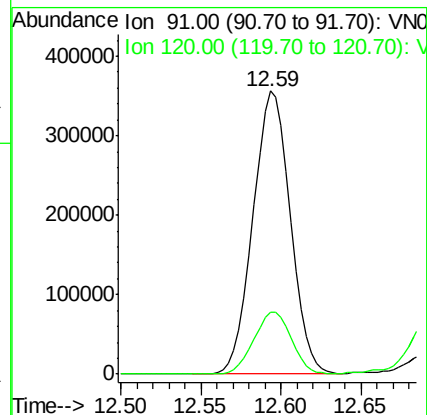
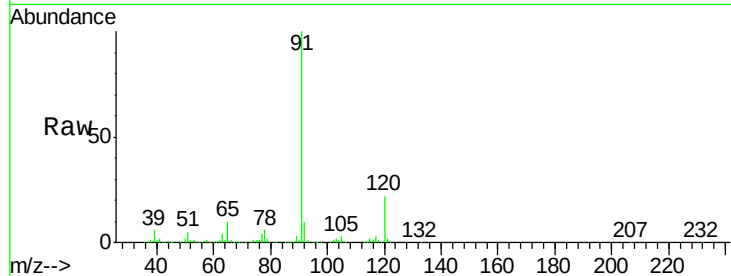
91 100

120 22.3 11.2 33.5

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 29.365 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

Lab File: VN049237.D

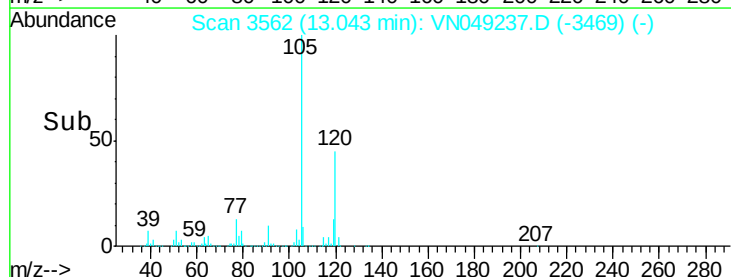
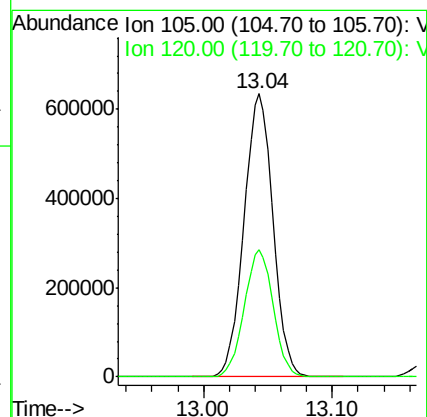
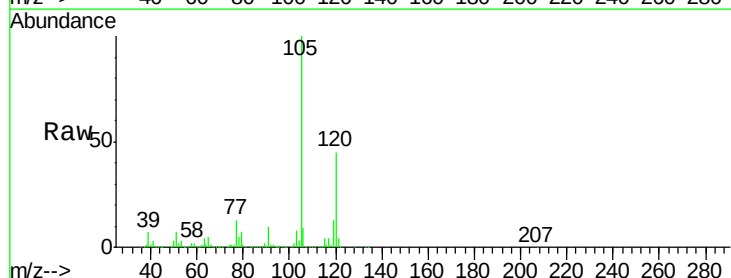
Acq: 14 Jun 2018 19:16

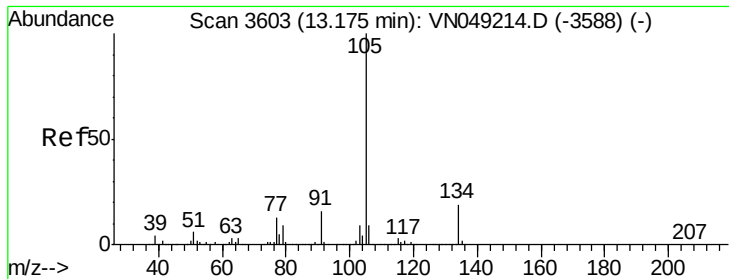
Tgt Ion: 105 Resp: 989430

Ion Ratio Lower Upper

105 100

120 45.0 22.2 66.6





#85

sec-Butylbenzene

Concen: 1.489 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

Instrument :

MSVOA_N

ClientSampled :

NW1

Tot Ion: 105 Resp: 57955

Ion Ratio Lower Upper

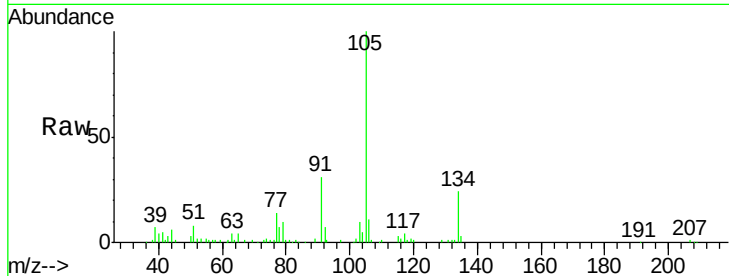
105 100

134 35.2 9.8 29.3#

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

40000

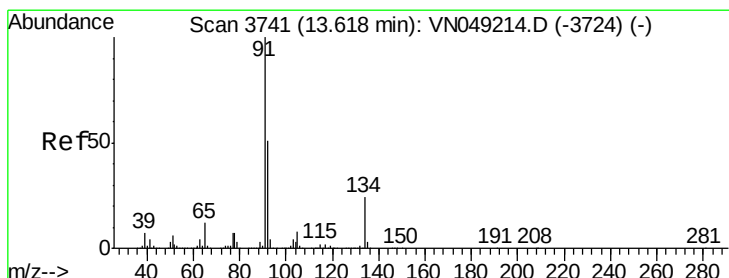
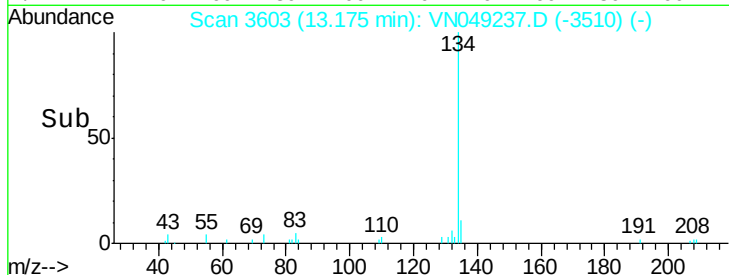
30000

20000

10000

0

Time--> 13.10 13.15 13.20



#89

n-Butylbenzene

Concen: 3.479 ug/l m

RT: 13.62 min Scan# 3741

Delta R.T. 0.00 min

Lab File: VN049237.D

Acq: 14 Jun 2018 19:16

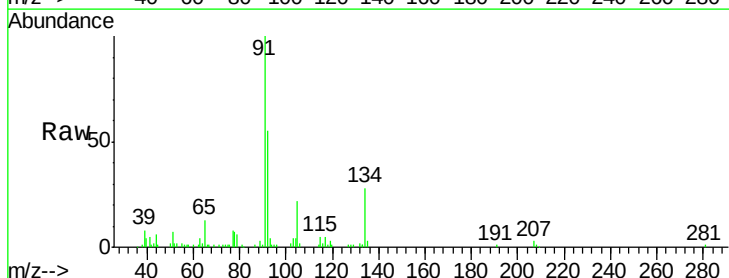
Tgt Ion: 91 Resp: 54794

Ion Ratio Lower Upper

91 100

92 51.9 25.1 75.4

134 0.0 12.0 36.0#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

40000

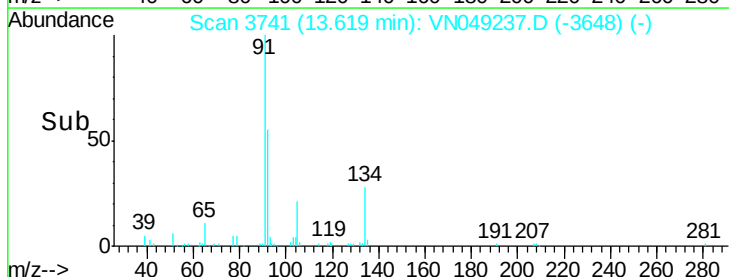
30000

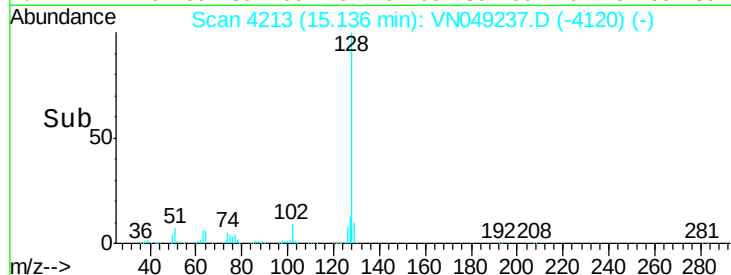
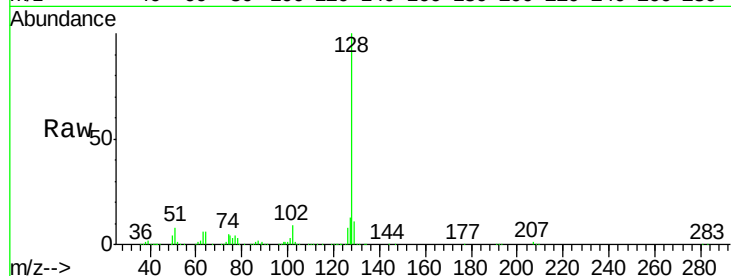
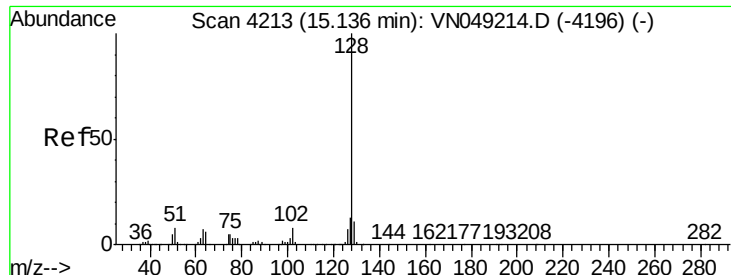
20000

10000

0

Time--> 13.60 13.65





#95
Naphthalene
Concen: 49.156 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049237.D
Acq: 14 Jun 2018 19:16

Tot Ion:	128	Resp:	784107
Ion Ratio		Lower	Upper
128	100		
127	13.2	10.6	16.0
129	11.0	8.5	12.7

Instrument :
MSVOA_N
ClientSampleId :
NW1

Manual Integrations
APPROVED

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