

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062419\
 Data File : VX010407.D
 Acq On : 24 Jun 2019 12:54
 Operator : JC/SP
 Sample : K3500-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-A-061919

Manual Integrations
 APPROVED

MMDadoda
 6/25/2019 9:01:24 AM

Quant Time: Jun 25 04:03:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	304342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	464720	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	417794	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	199370	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	138753	48.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.26%	
35) Dibromofluoromethane	5.50	113	141026	49.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.20%	
50) Toluene-d8	8.71	98	548124	50.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.78%	
62) 4-Bromofluorobenzene	11.13	95	189936	48.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.72%	
Target Compounds						
					Qvalue	
16) Acetone	2.45	43	29251	20.454	ug/l	97
25) 2-Butanone	4.68	43	13013	6.203	ug/l	97
27) cis-1,2-Dichloroethene	4.61	96	1426	0.435	ug/l	86
31) Cyclohexane	5.58	56	633931	153.802	ug/l	97
39) Methylcyclohexane	7.46	83	103363	21.293	ug/l	95
52) Toluene	8.79	92	5603	0.740	ug/l	95
67) Ethyl Benzene	10.25	91	1008762	70.447	ug/l	100
68) m/p-Xylenes	10.36	106	452316	81.521	ug/l	99
69) o-Xylene	10.69	106	30214	5.537	ug/l	97
73) Isopropylbenzene	11.02	105	1317287	97.470	ug/l	99
78) n-propylbenzene	11.36	91	3153288	212.294	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	200832	18.026	ug/l	100
83) tert-Butylbenzene	11.77	119	3812m	0.341	ug/l	
84) 1,2,4-Trimethylbenzene	11.81	105	6190227	553.016	ug/l	98
85) sec-Butylbenzene	11.94	105	148510m	11.311	ug/l	
86) p-Isopropyltoluene	12.06	119	15351m	1.264	ug/l	
89) n-Butylbenzene	12.38	91	27609m	2.675	ug/l	
91) 1,2-Dichlorobenzene	12.39	146	3633	0.555	ug/l	96
95) Naphthalene	13.83	128	3717808	266.467	ug/l	99

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

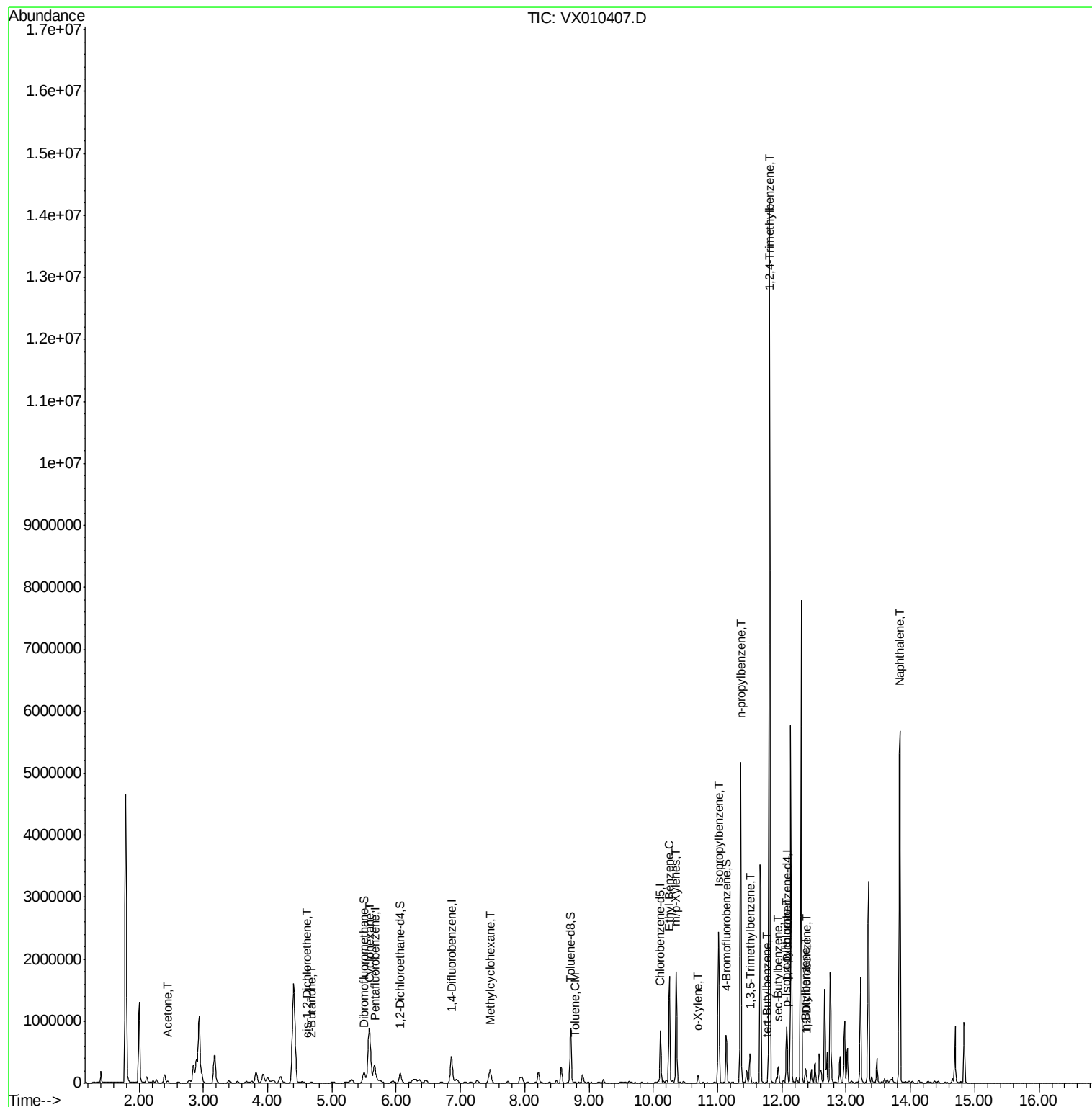
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062419\
Data File : VX010407.D
Acq On : 24 Jun 2019 12:54
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Sample : K3500-09
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

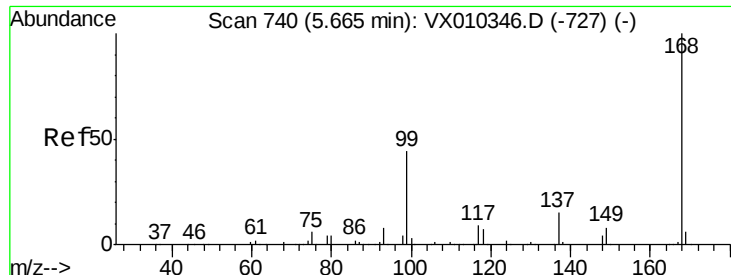
Instrument :
MSVOA_X
ClientSampleId :
GW-A-061919

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Quant Time: Jun 25 04:03:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

Instrument :

MSVOA_X

ClientSampleId :

GW-A-061919

Tot Ion:168 Resp: 304342

Ion Ratio Lower Upper

168 100

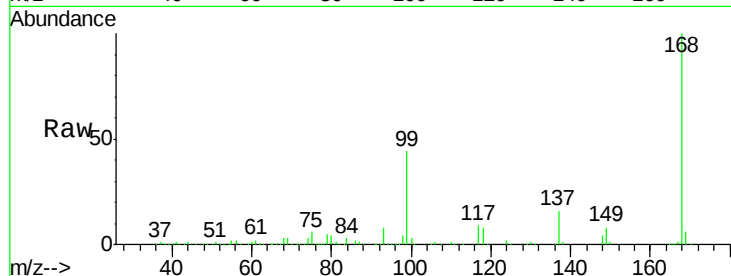
99 44.2 35.5 53.3

Manual Integrations

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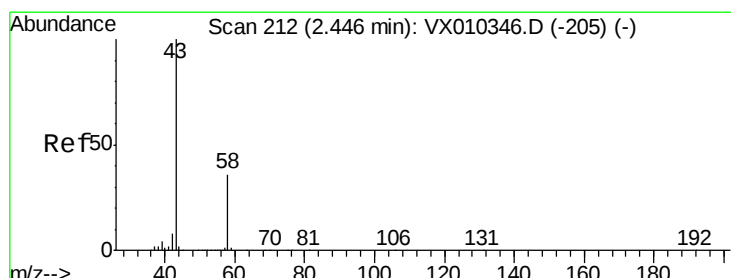
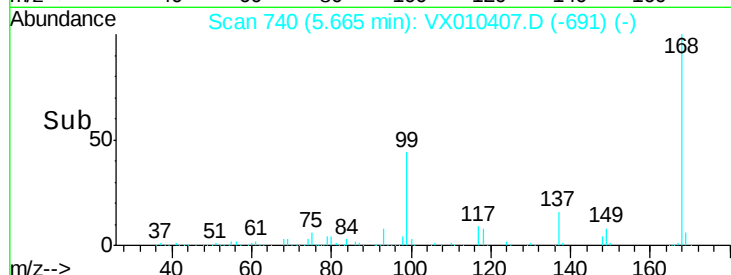
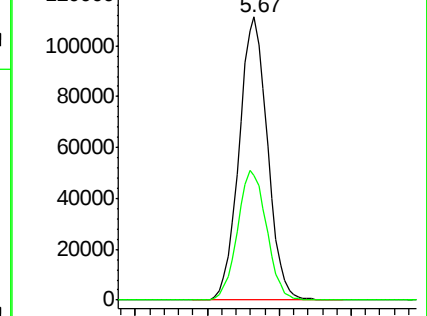
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 20.454 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010407.D

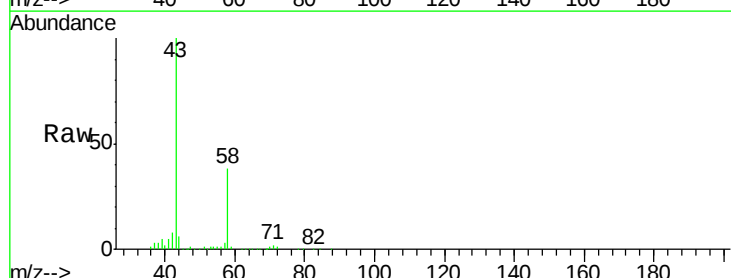
Acq: 24 Jun 2019 12:54

Tgt Ion: 43 Resp: 29251

Ion Ratio Lower Upper

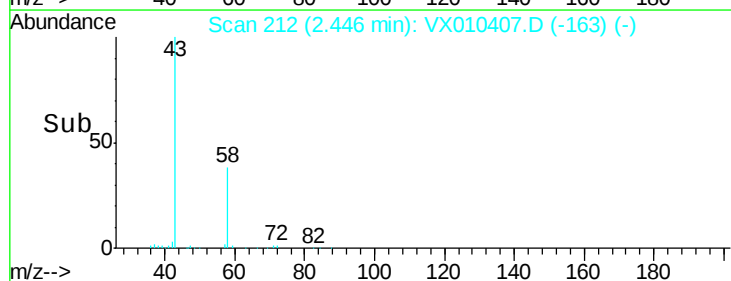
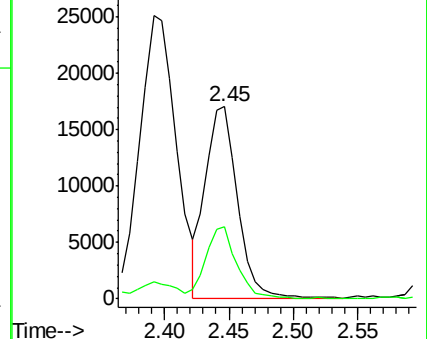
43 100

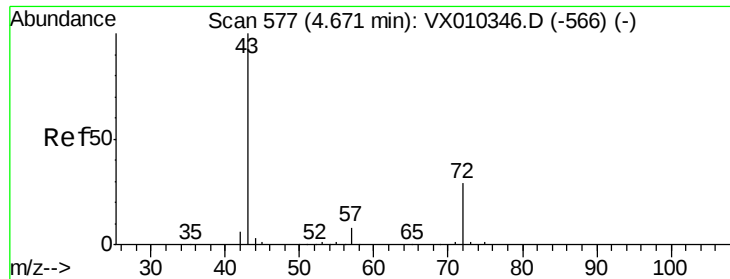
58 37.8 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#25

2-Butanone

Concen: 6.203 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

Instrument :

MSVOA_X

ClientSampled :

GW-A-061919

Tot Ion: 43 Resp: 13013

Ion Ratio Lower Upper

43 100

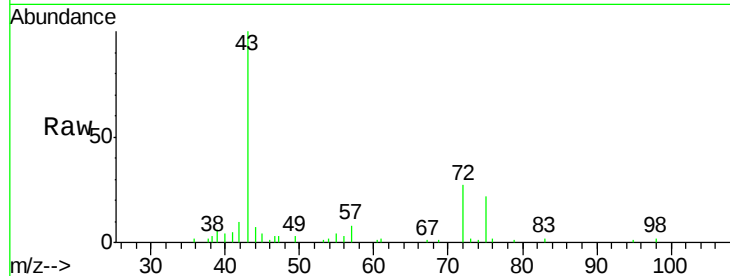
72 27.4 23.3 34.9

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

468

4000

3000

2000

1000

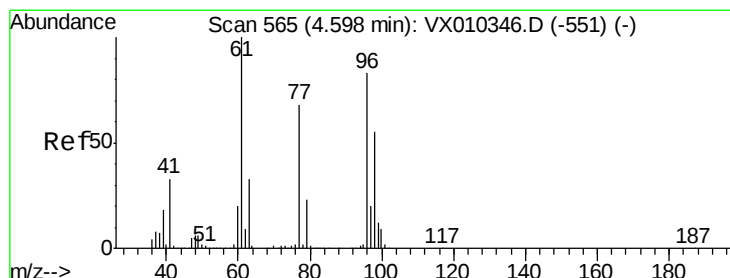
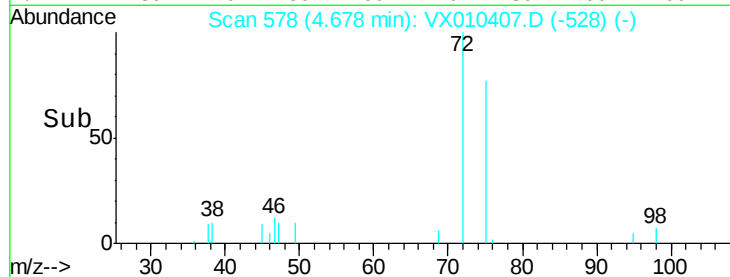
0

4.60

4.70

4.80

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.435 ug/l

RT: 4.61 min Scan# 567

Delta R.T. 0.01 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

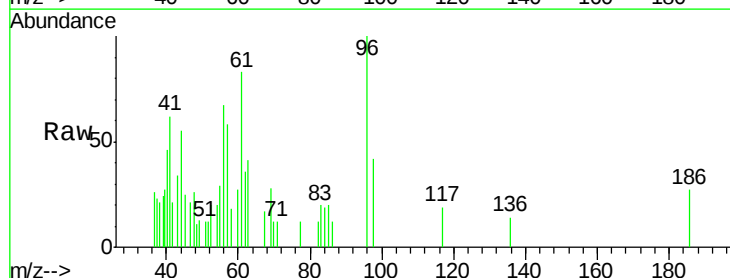
Tgt Ion: 96 Resp: 1426

Ion Ratio Lower Upper

96 100

61 115.8 0.0 251.8

98 45.4 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

461

400

200

0

4.50

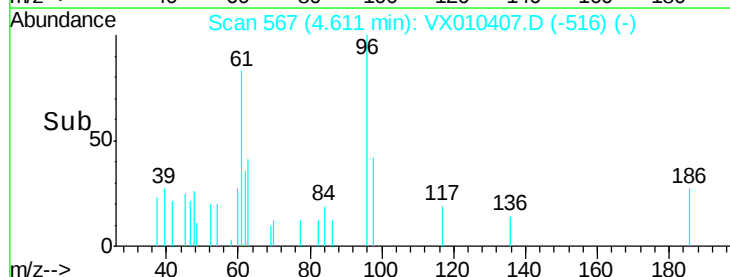
4.55

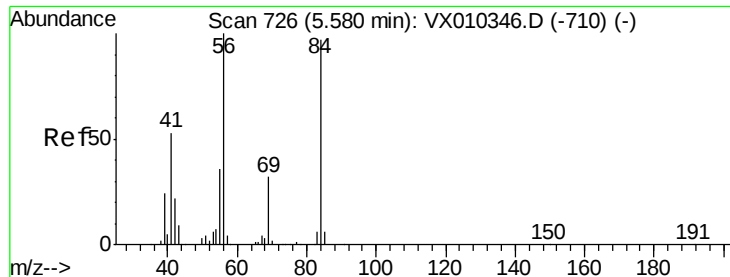
4.60

4.65

4.70

Time-->





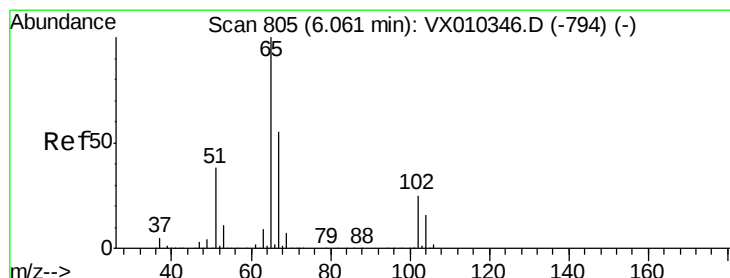
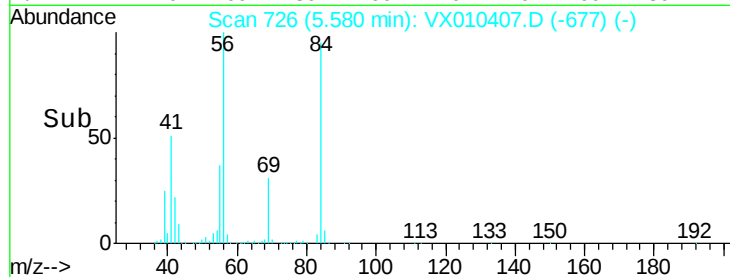
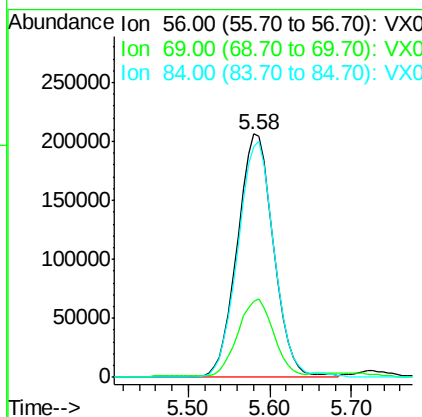
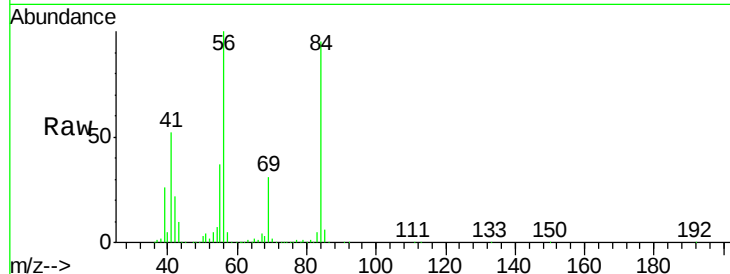
#31
Cyclohexane
Concen: 153.802 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :
GW-A-061919

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.5	25.9	38.9
84	94.8	78.0	117.0

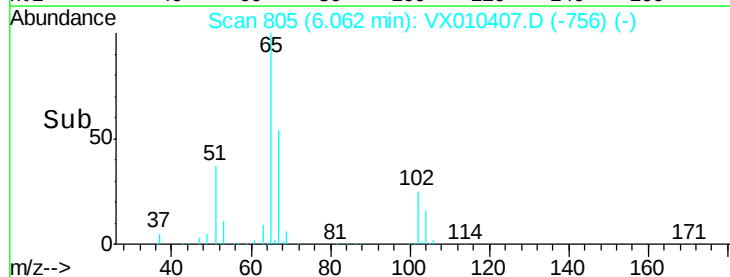
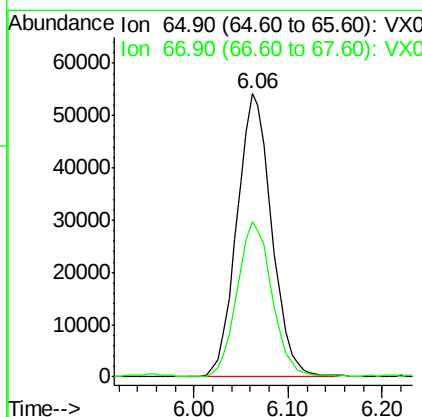
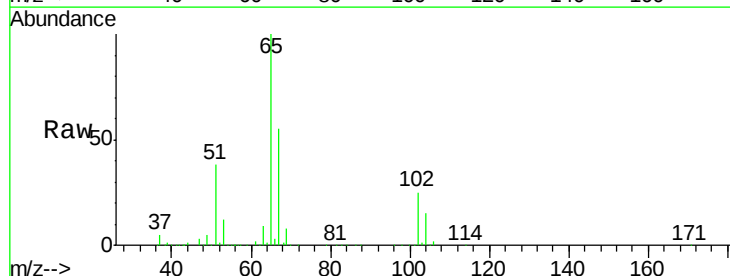
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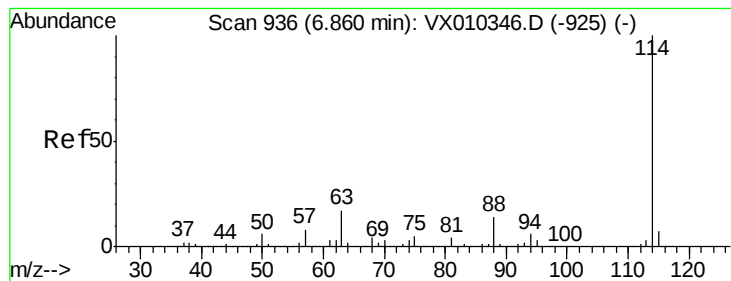
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#33
1,2-Dichloroethane-d4
Concen: 48.625 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Tgt Ion	Ratio	Lower	Upper
65	100		
67	55.1	0.0	110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

Instrument :

MSVOA_X

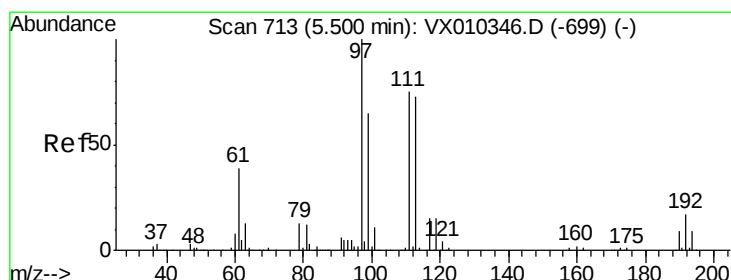
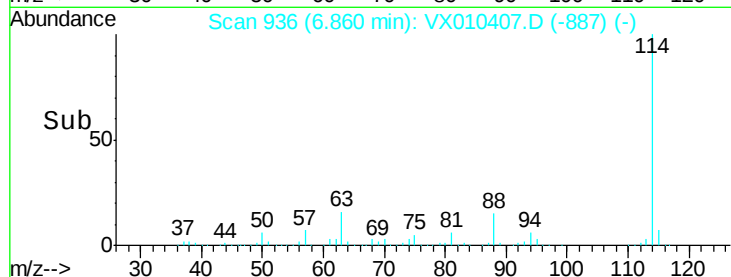
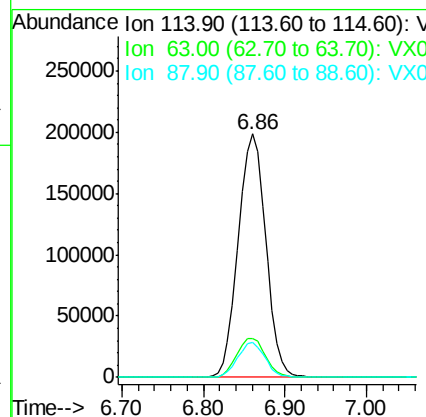
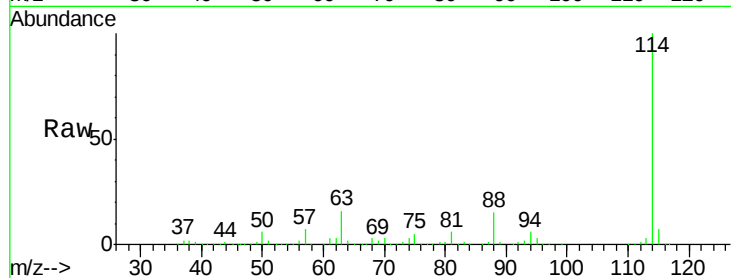
ClientSampleId :

GW-A-061919

Tot Ion:	114	Resp:	464720
Ion Ratio	Lower	Upper	
114	100		
63	16.2	0.0	33.8
88	14.5	0.0	27.6

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#35

Dibromofluoromethane

Concen: 49.599 ug/l

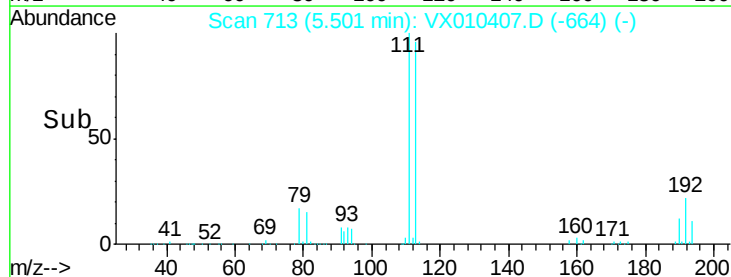
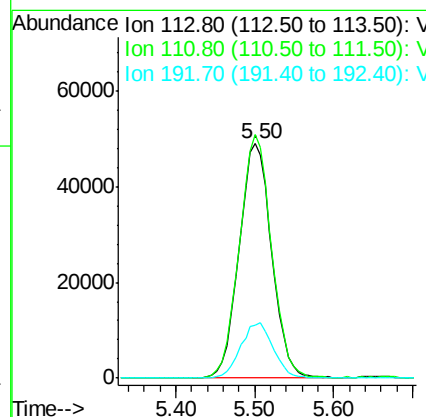
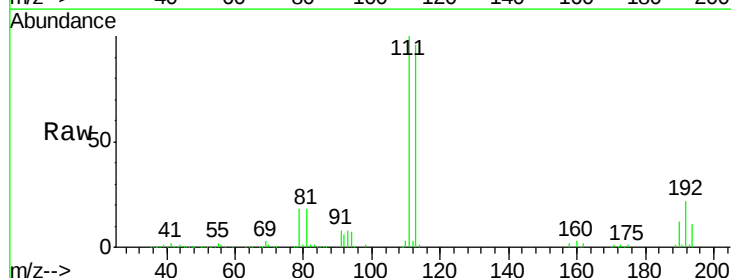
RT: 5.50 min Scan# 713

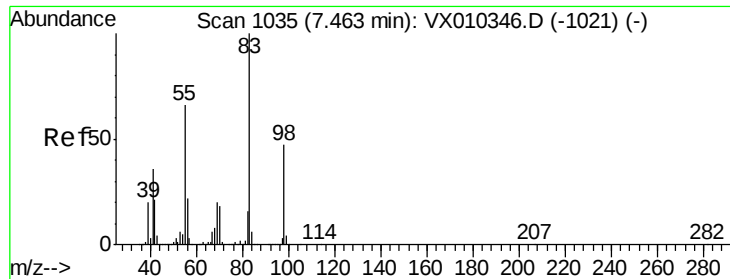
Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

Tgt Ion:	113	Resp:	141026
Ion Ratio	Lower	Upper	
113	100		
111	102.2	81.2	121.8
192	23.5	18.6	27.8





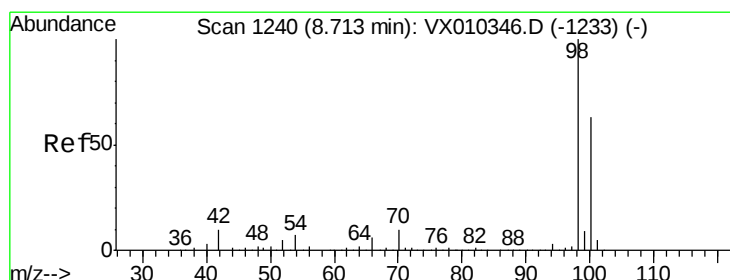
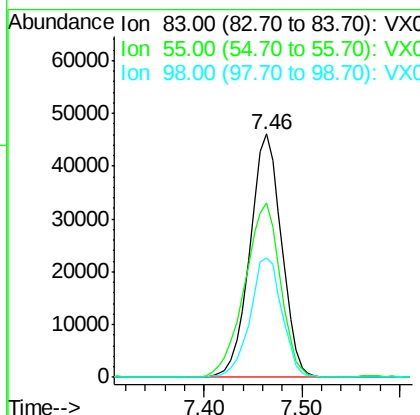
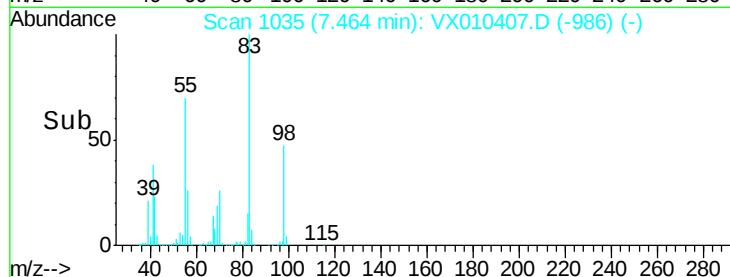
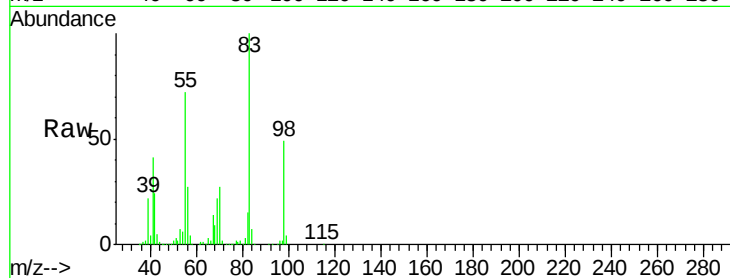
#39
Methylcyclohexane
Concen: 21.293 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :
GW-A-061919

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.4	53.0	79.6
98	49.0	37.8	56.8

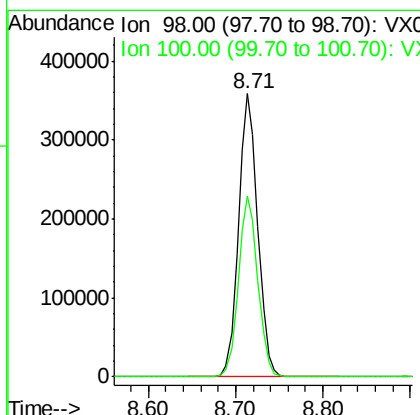
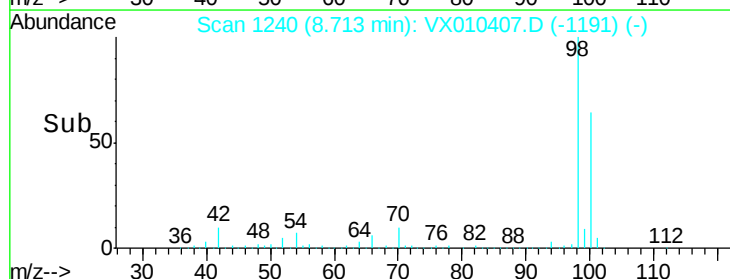
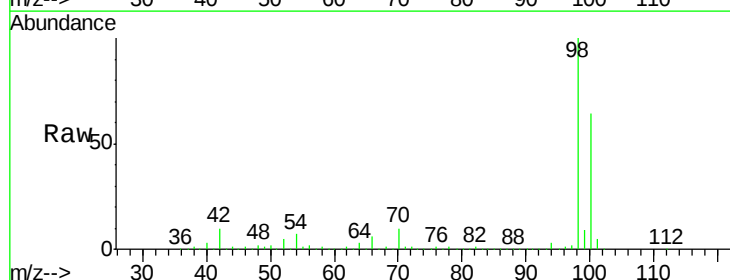
Manual Integrations
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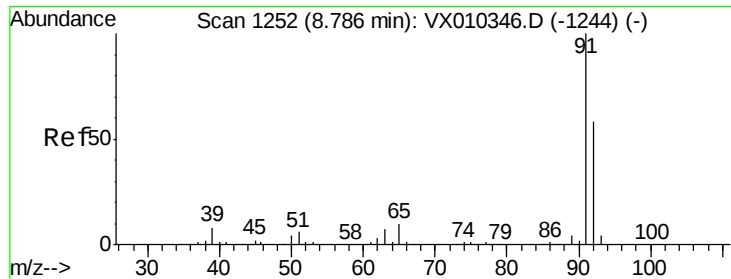
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#50
Toluene-d8
Concen: 50.388 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4





#52

Toluene

Concen: 0.740 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

Instrument :

MSVOA_X

ClientSampleId :

GW-A-061919

Tot Ion: 92 Resp: 5603

Ion Ratio Lower Upper

92 100

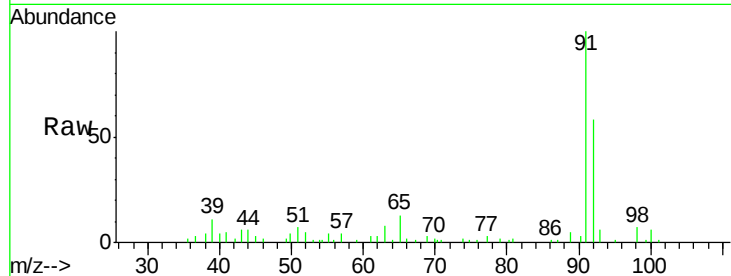
91 182.2 139.8 209.6

Manual Integrations

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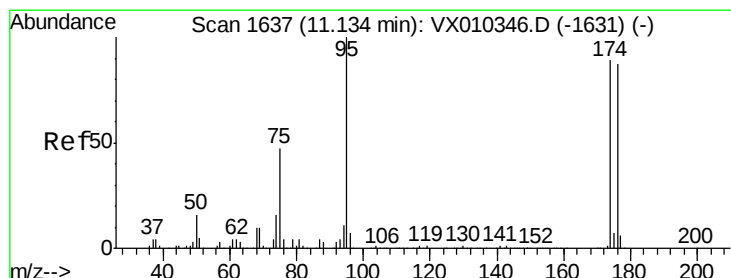
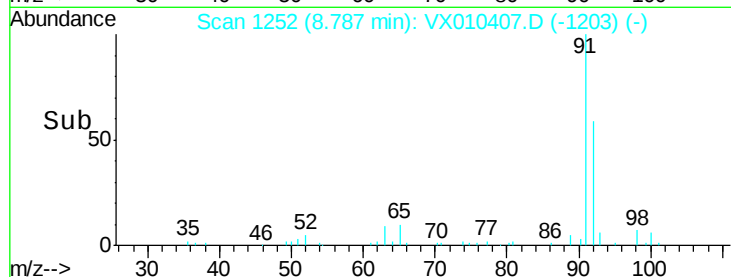
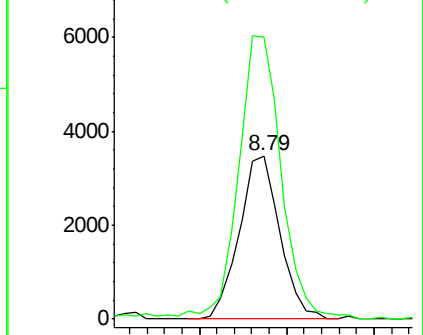
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Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 48.363 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

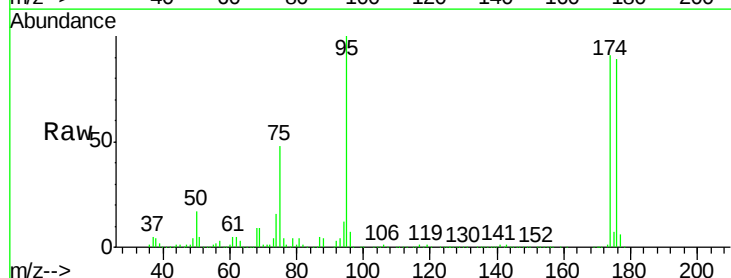
Tgt Ion: 95 Resp: 189936

Ion Ratio Lower Upper

95 100

174 93.6 0.0 187.6

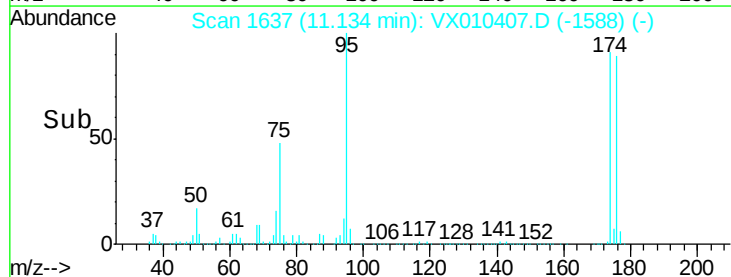
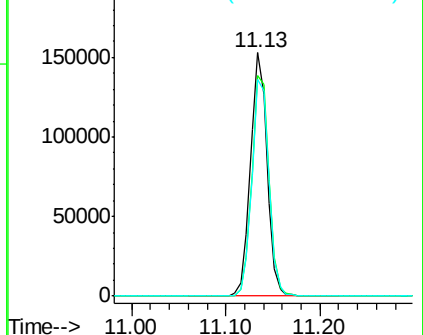
176 91.4 0.0 184.0

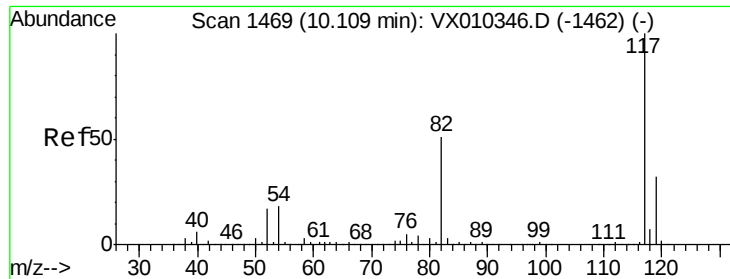


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





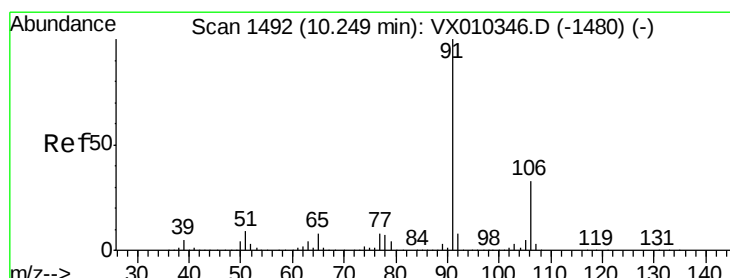
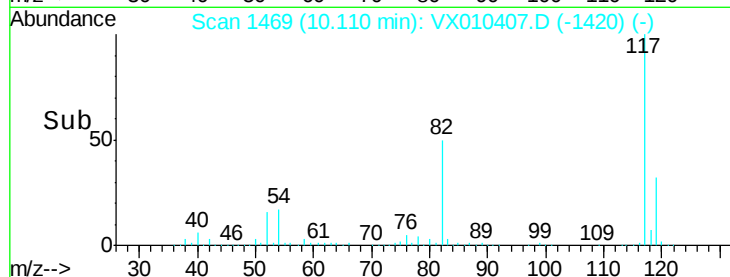
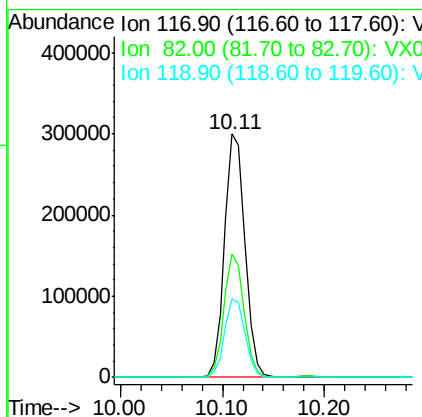
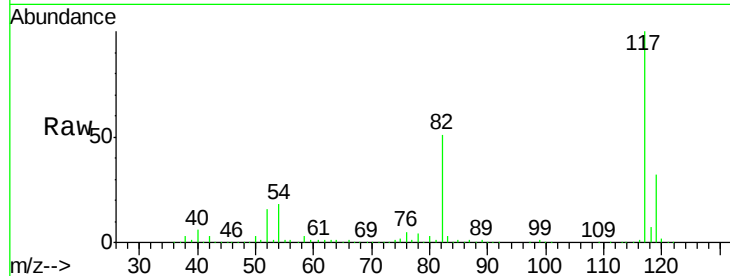
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :
GW-A-061919

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.5	41.2	61.8
119	32.4	25.5	38.3

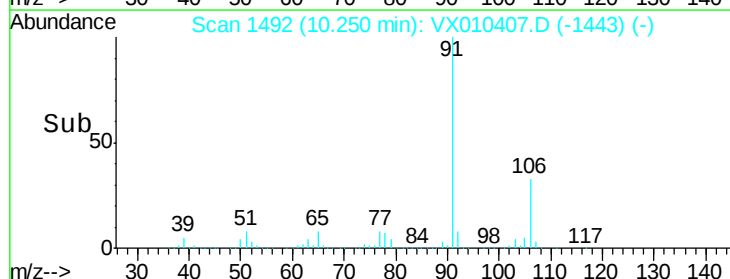
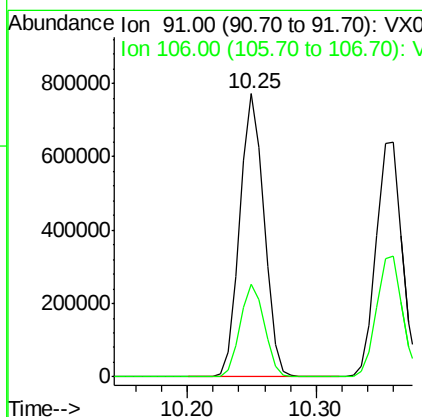
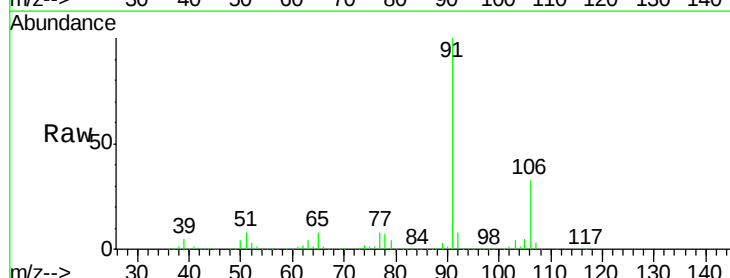
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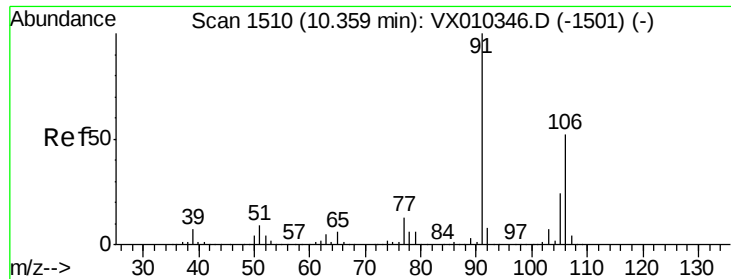
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#67
Ethyl Benzene
Concen: 70.447 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.0	26.2	39.2





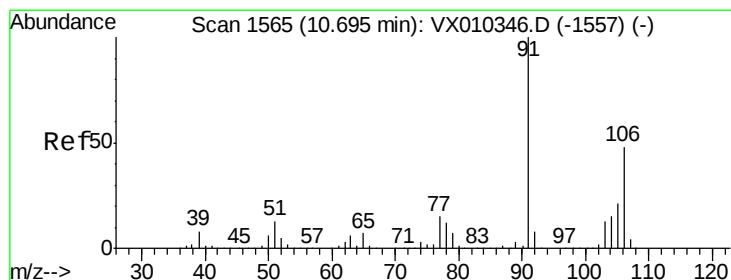
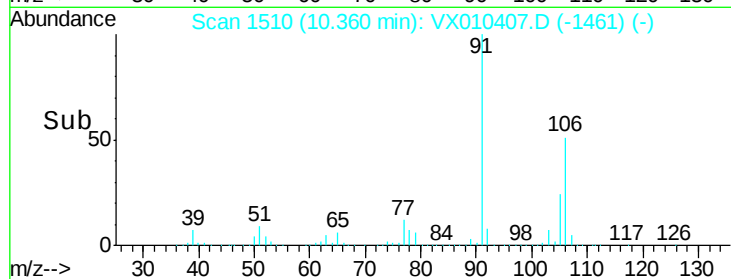
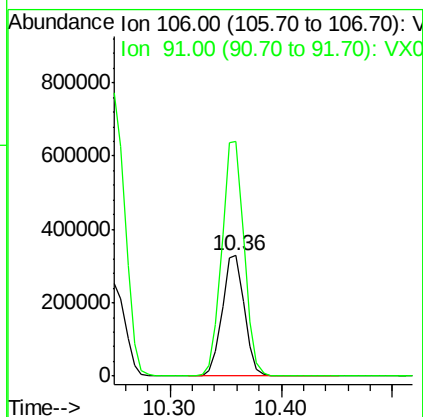
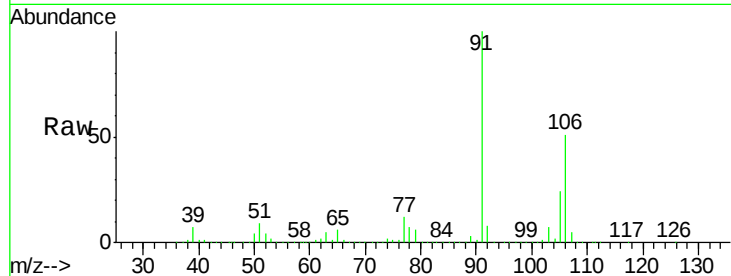
#68
m/p-Xylenes
Concen: 81.521 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :
GW-A-061919

Tot Ion:106 Resp: 452316
Ion Ratio Lower Upper
106 100
91 195.2 155.3 232.9

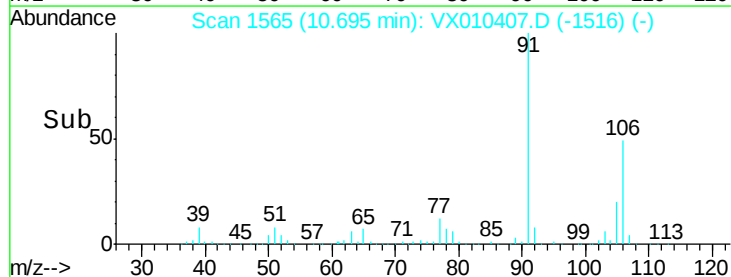
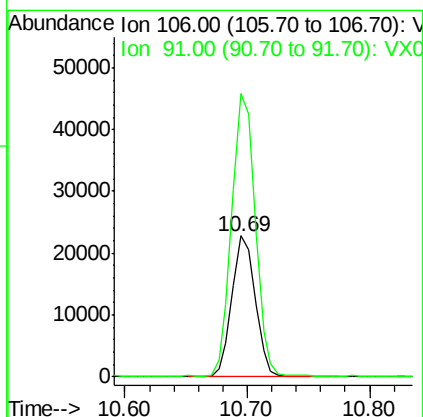
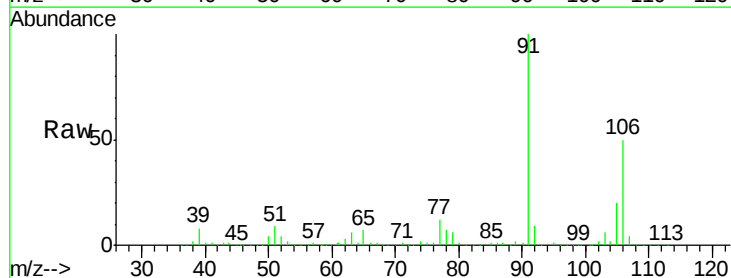
Manual Integrations
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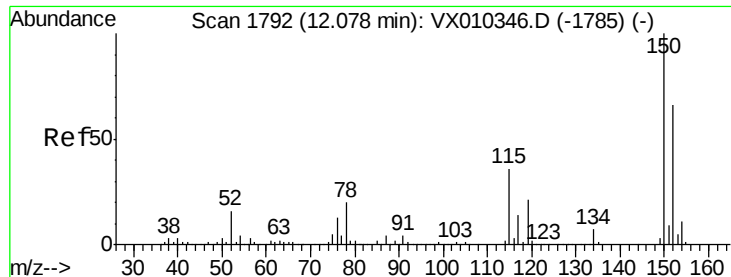
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#69
o-Xylene
Concen: 5.537 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Tgt Ion:106 Resp: 30214
Ion Ratio Lower Upper
106 100
91 200.9 102.7 308.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

Instrument :

MSVOA_X

ClientSampleId :

GW-A-061919

Tot Ion:152 Resp: 199370

Ion Ratio Lower Upper

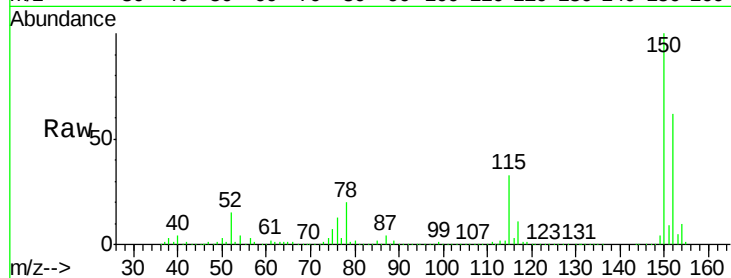
152 100

115 55.3 38.6 115.7

150 158.4 0.0 347.4

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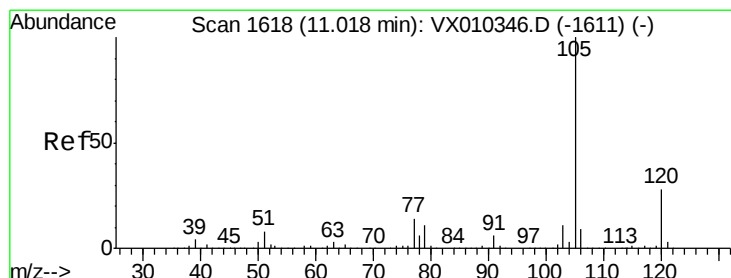
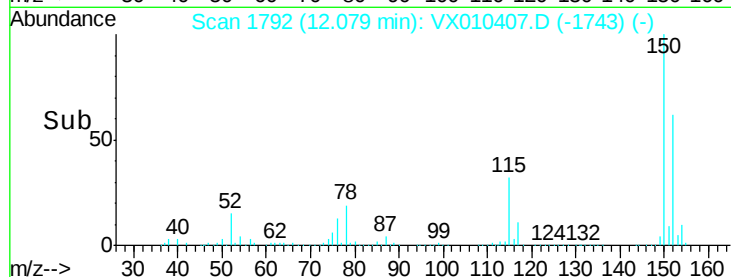
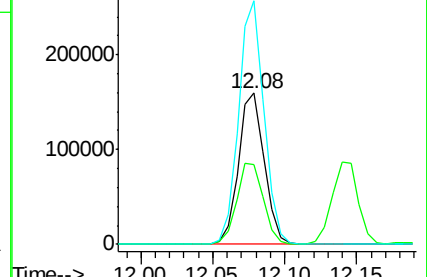
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 97.470 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010407.D

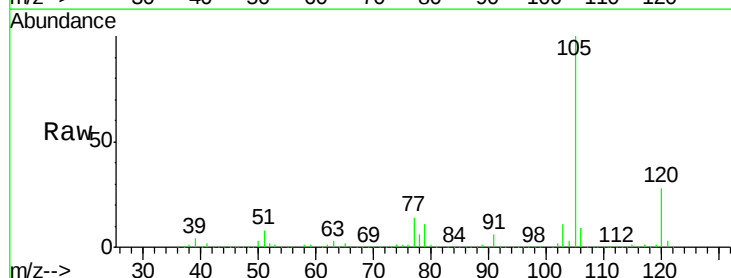
Acq: 24 Jun 2019 12:54

Tgt Ion:105 Resp: 1317287

Ion Ratio Lower Upper

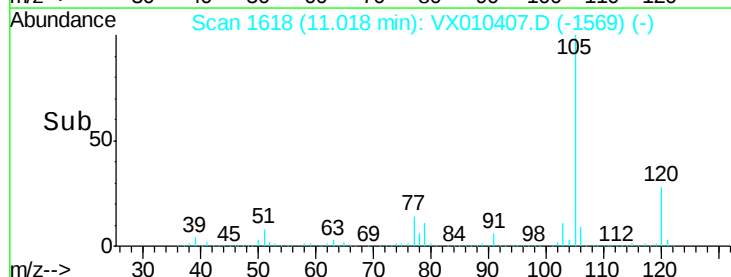
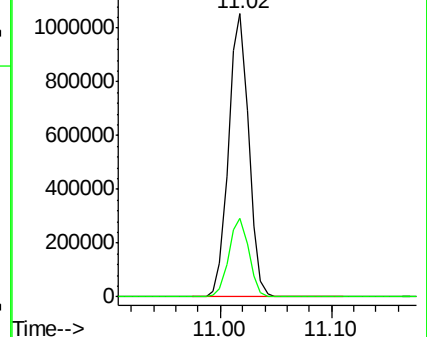
105 100

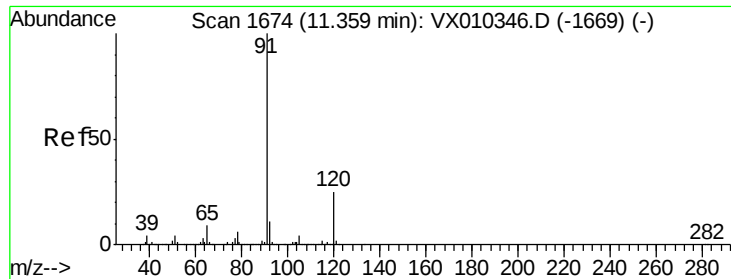
120 27.7 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 212.294 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

Instrument :

MSVOA_X

ClientSampleId :

GW-A-061919

Tot Ion: 91 Resp: 3153288

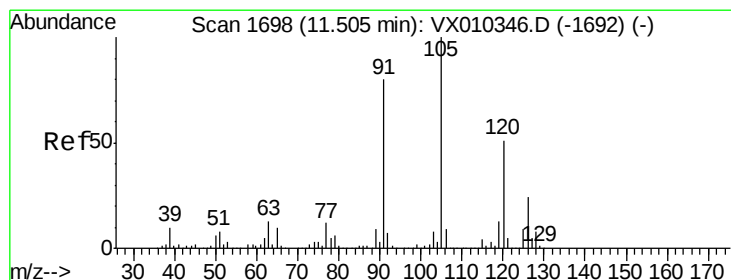
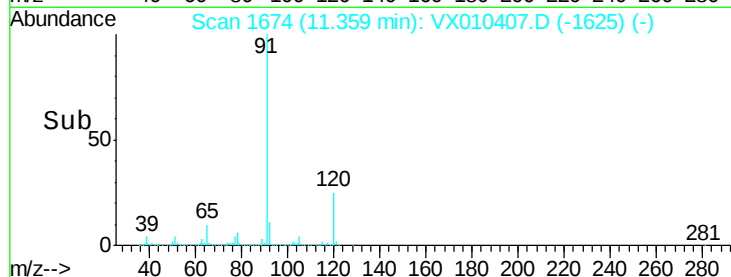
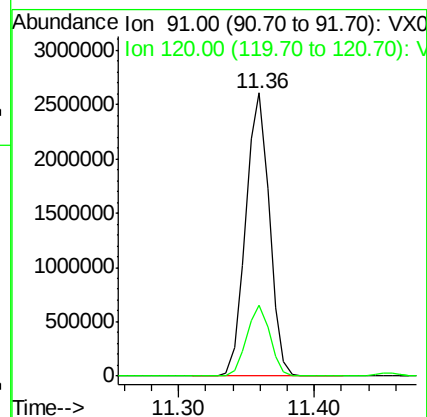
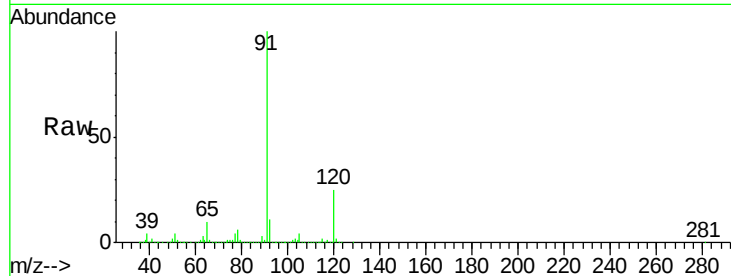
Ion Ratio Lower Upper

91 100

120 24.7 12.4 37.4

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#80

1,3,5-Trimethylbenzene

Concen: 18.026 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX010407.D

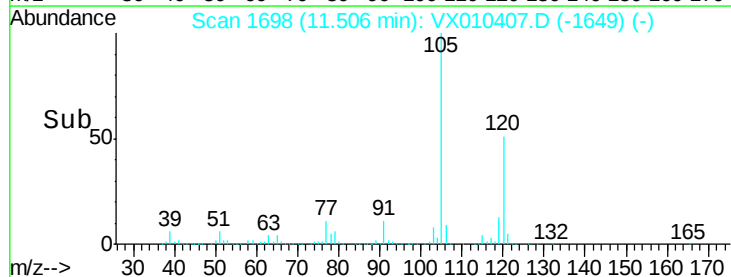
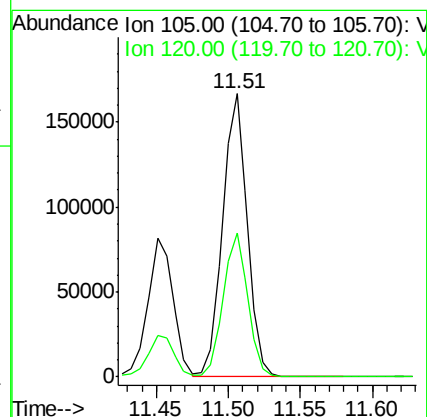
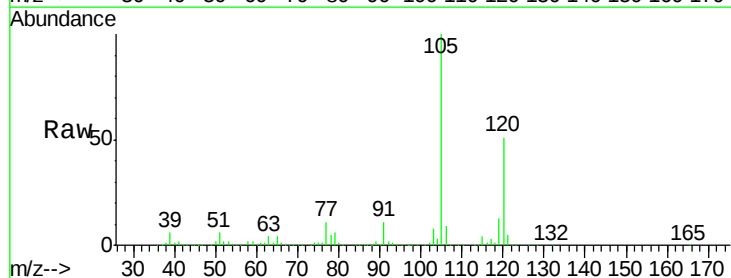
Acq: 24 Jun 2019 12:54

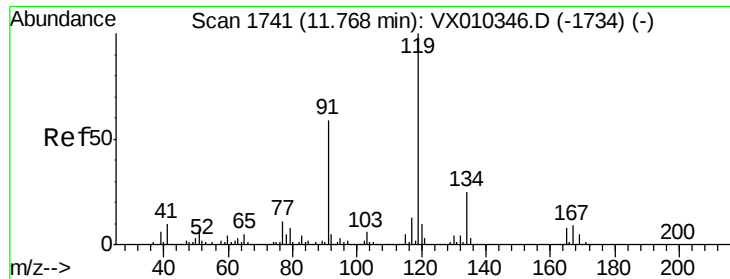
Tgt Ion: 105 Resp: 200832

Ion Ratio Lower Upper

105 100

120 50.4 25.2 75.6





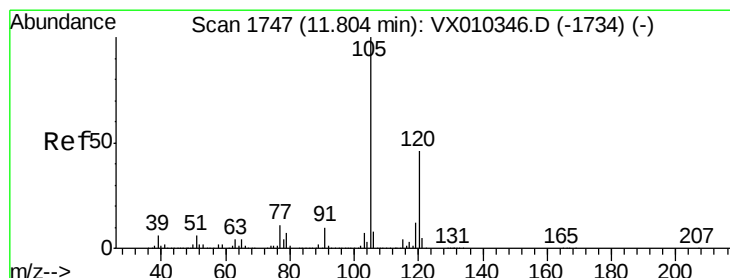
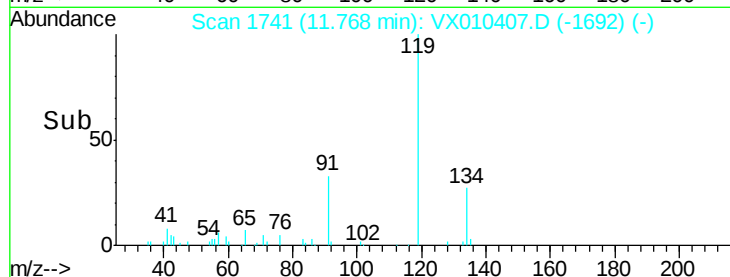
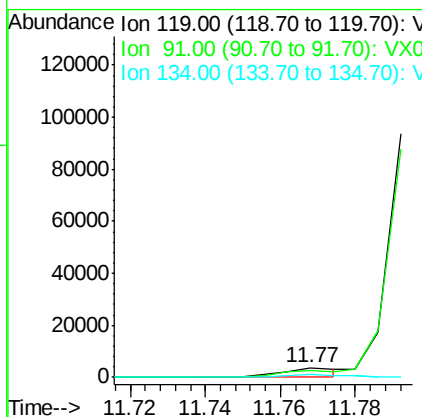
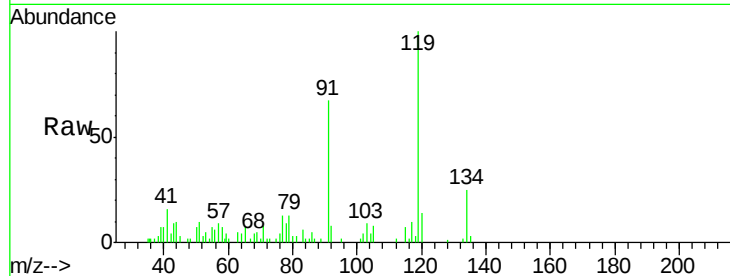
#83
tert-Butylbenzene
Concen: 0.341 ug/l m
RT: 11.77 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :
GW-A-061919

Tot Ion:119 Resp: 3812
Ion Ratio Lower Upper
119 100
91 18204.6 27.6 82.
134 0.0 11.8 35.4#

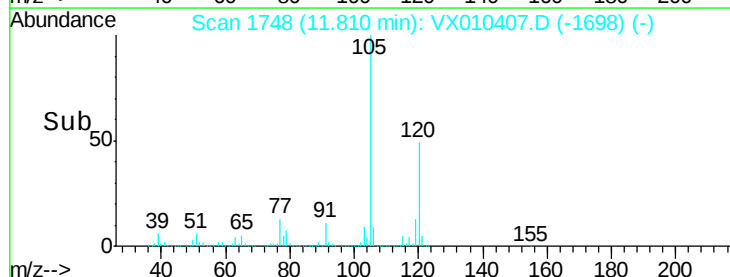
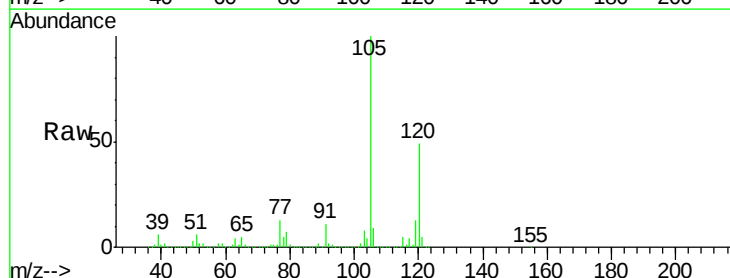
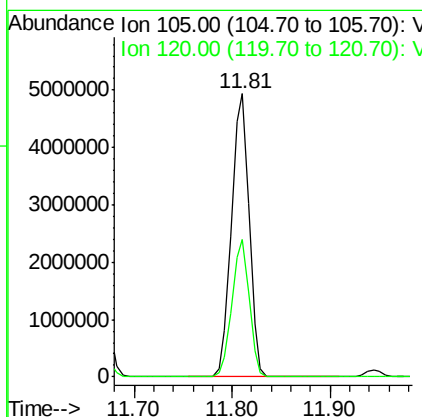
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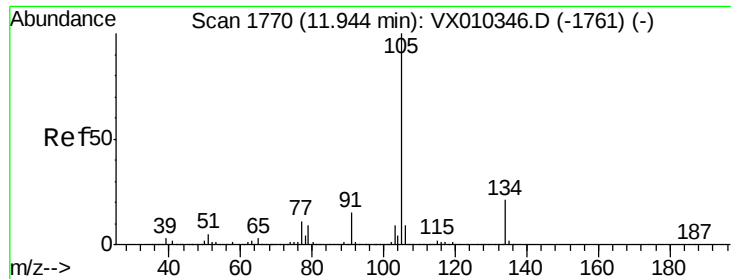
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#84
1,2,4-Trimethylbenzene
Concen: 553.016 ug/l
RT: 11.81 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Tgt Ion:105 Resp: 6190227
Ion Ratio Lower Upper
105 100
120 47.5 23.1 69.2





#85

sec-Butylbenzene

Concen: 11.311 ug/l m

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

Instrument :

MSVOA_X

ClientSampled :

GW-A-061919

Tot Ion:105 Resp: 148510

Ion Ratio Lower Upper

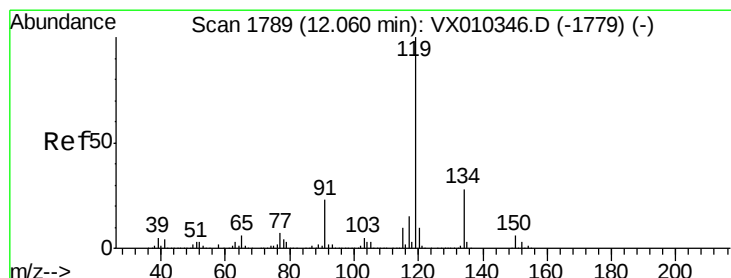
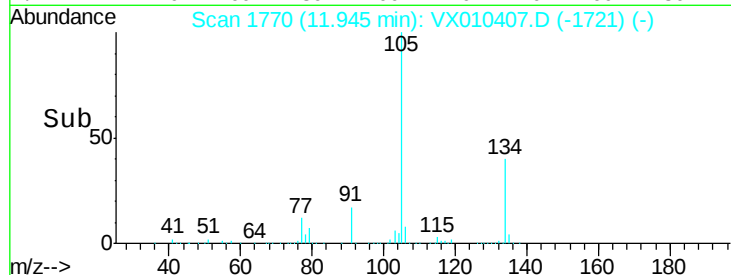
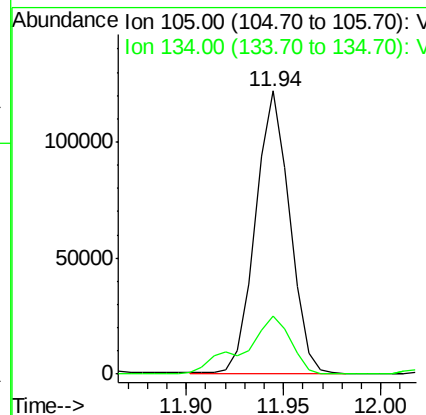
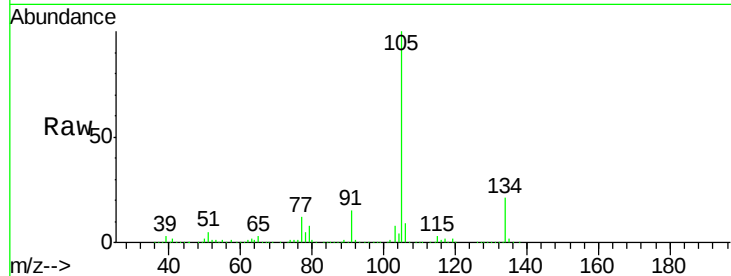
105 100

134 0.0 10.7 31.9#

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#86

p-Isopropyltoluene

Concen: 1.264 ug/l m

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX010407.D

Acq: 24 Jun 2019 12:54

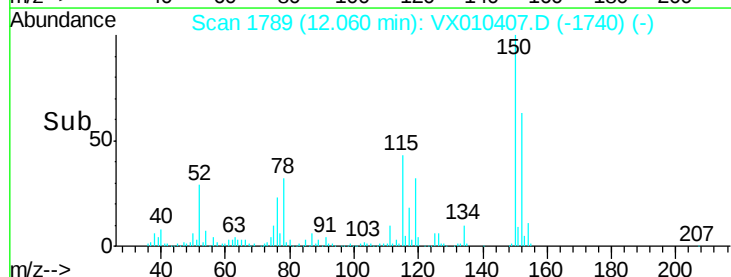
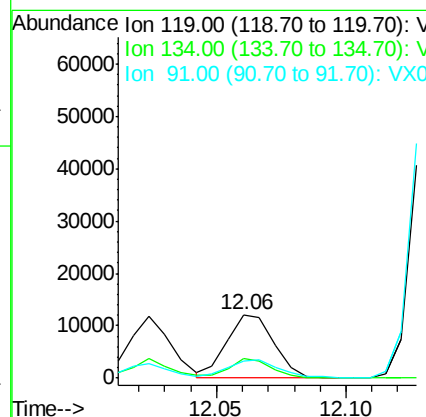
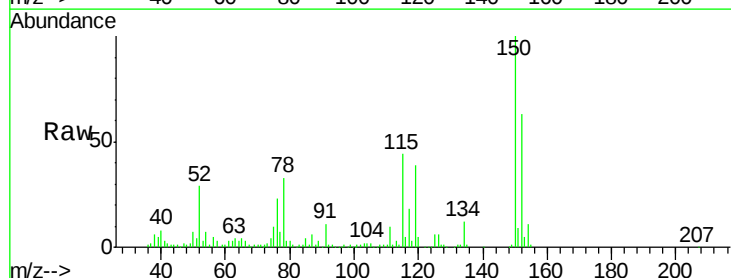
Tgt Ion:119 Resp: 15351

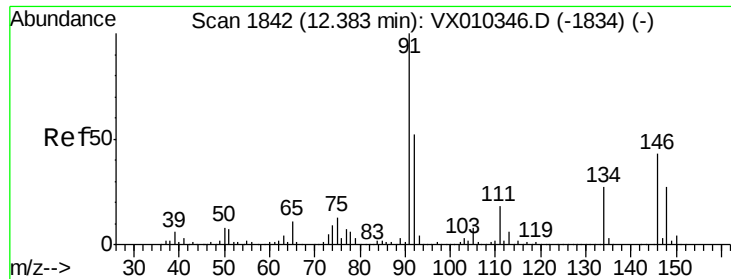
Ion Ratio Lower Upper

119 100

134 0.0 13.7 41.1#

91 1747.0 11.3 33.8#





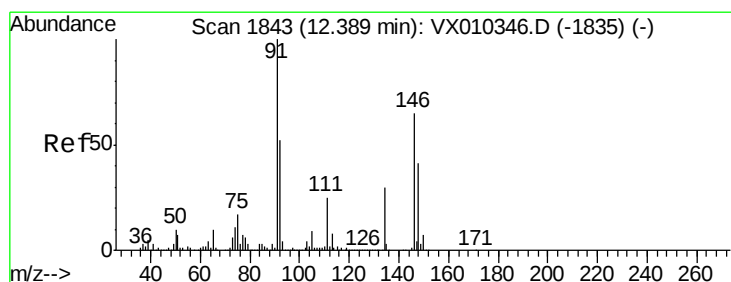
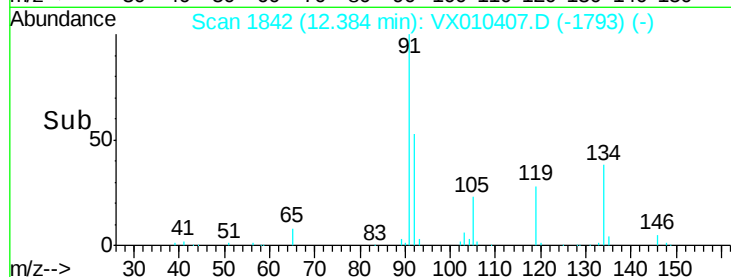
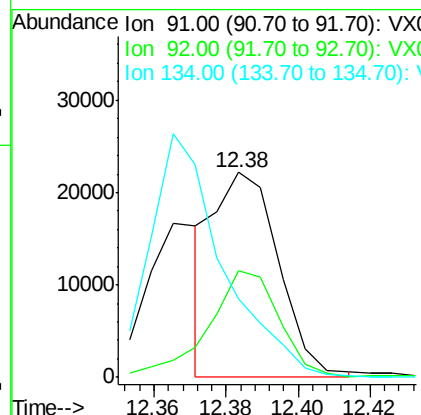
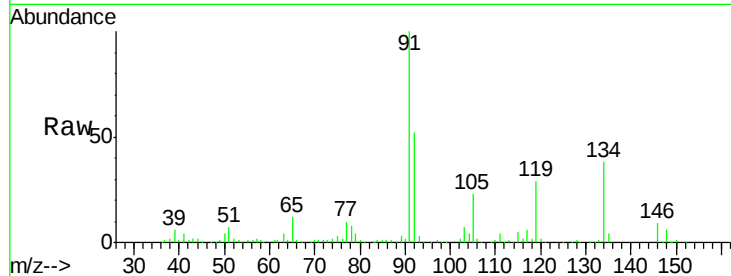
#89
n-Butylbenzene
Concen: 2.675 ug/l m
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :
GW-A-061919

Tot Ion	Ratio	Lower	Upper
91	100		
92	57.4	26.2	78.5
134	136.7	14.1	42.4#

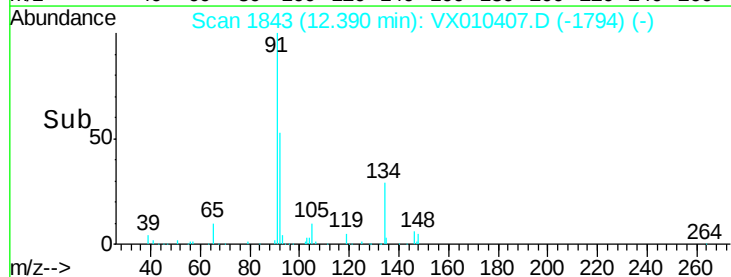
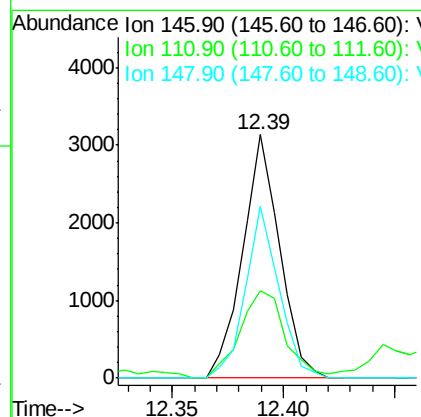
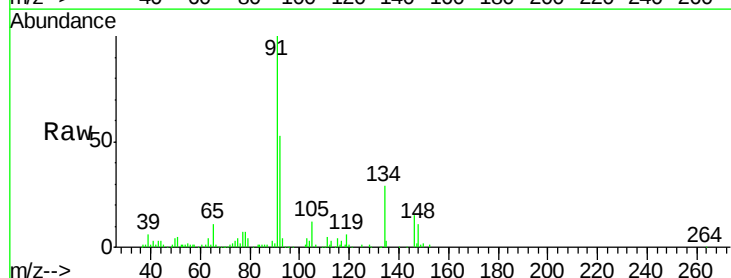
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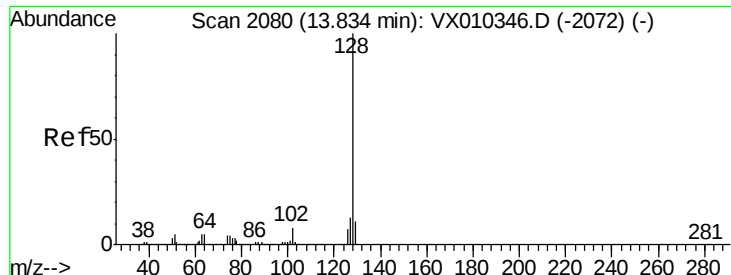
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#91
1,2-Dichlorobenzene
Concen: 0.555 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	19.2	57.6
148	64.3	32.0	96.0





#95
Naphthalene
Concen: 266.467 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010407.D
Acq: 24 Jun 2019 12:54

Instrument :
MSVOA_X
ClientSampleId :
GW-A-061919

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	11.2	8.9	13.3

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