

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062519\
 Data File : VX010445.D
 Acq On : 25 Jun 2019 19:49
 Operator : JC/SP
 Sample : K3519-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-19-JMW0882

Manual Integrations
 APPROVED

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 6/26/2019 8:49:12 AM

Quant Time: Jun 26 02:11:24 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	255419	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	397717	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	362019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	172087	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	121948	50.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.84%	
35) Dibromofluoromethane	5.50	113	121414	49.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.80%	
50) Toluene-d8	8.71	98	469819	50.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.13	95	160331	47.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.40%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.19	74	20732	16.102	ug/l	97
31) Cyclohexane	5.59	56	6583	1.903	ug/l	95
39) Methylcyclohexane	7.46	83	8059	1.940	ug/l #	85
40) Benzene	6.15	78	19801	2.011	ug/l	99
65) Chlorobenzene	10.14	112	112939	15.367	ug/l	99
68) m/p-Xylenes	10.36	106	17004	3.537	ug/l	98
73) Isopropylbenzene	11.02	105	15354	1.316	ug/l	99
78) n-propylbenzene	11.36	91	7545	0.588	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	7285	0.758	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	72812	7.536	ug/l	100
85) sec-Butylbenzene	11.94	105	10067	0.888	ug/l #	72
86) p-Isopropyltoluene	12.07	119	3904m	0.372	ug/l	
87) 1,3-Dichlorobenzene	12.10	146	4896	0.861	ug/l #	56
88) 1,4-Dichlorobenzene	12.10	146	4896	0.846	ug/l #	54
89) n-Butylbenzene	12.38	91	2698m	0.303	ug/l	
91) 1,2-Dichlorobenzene	12.39	146	5818	1.030	ug/l	98
95) Naphthalene	13.83	128	155269	12.893	ug/l	99

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

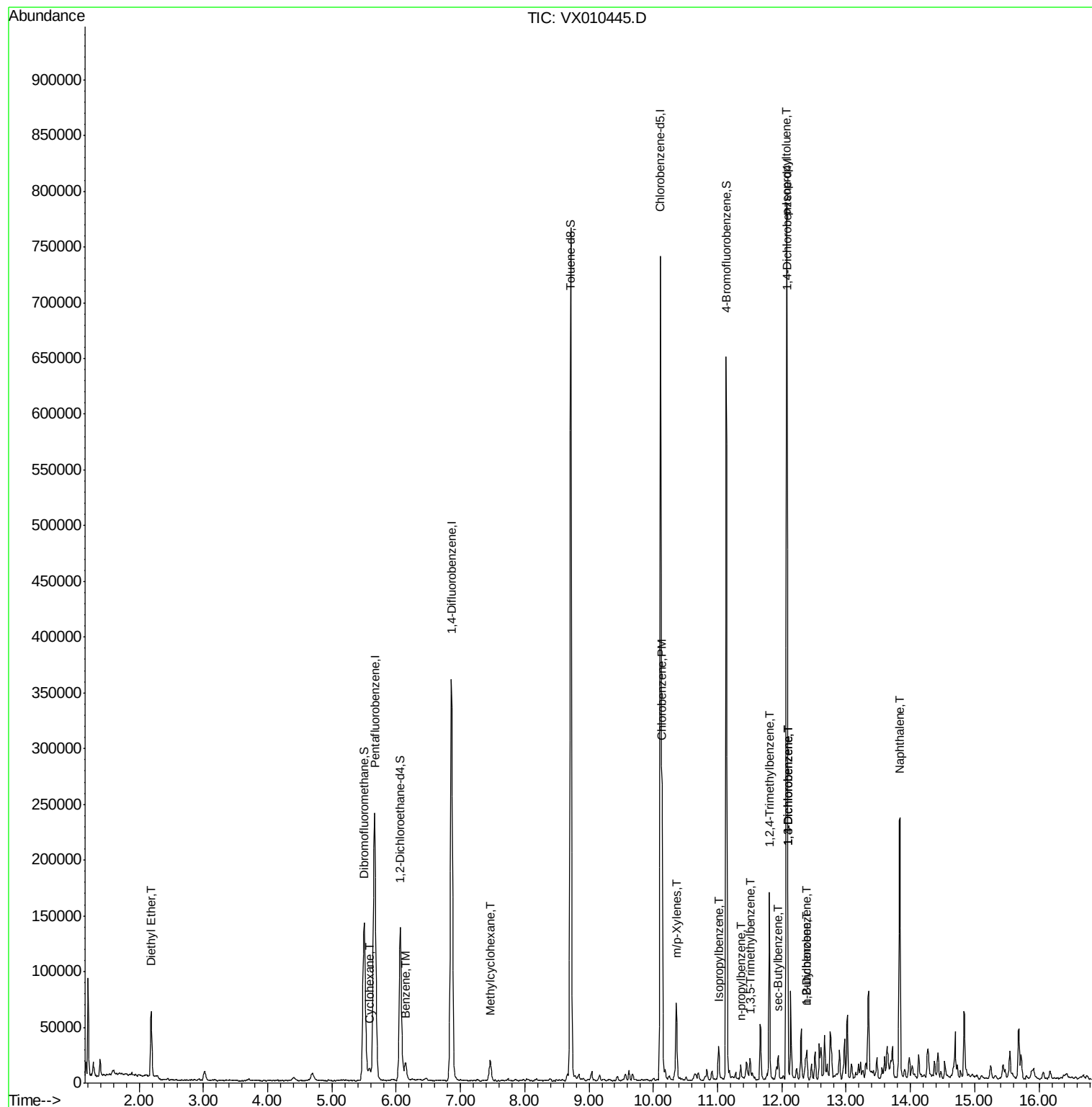
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062519\
Data File : VX010445.D
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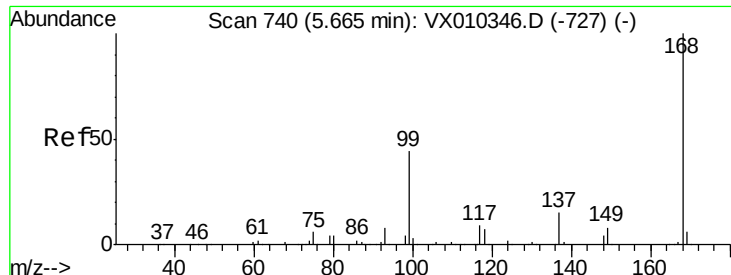
Instrument :
MSVOA_X
ClientSampleId :
SP-19-JMW0882

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Quant Time: Jun 26 02:11:24 2019
Quant Method : Z:\V0ASRV\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: VX010445.D

Acq: 25 Jun 2019 19:49

Instrument :

MSVOA_X

ClientSampleId :

SP-19-JMW0882

Tot Ion:168 Resp: 255419

Ion Ratio Lower Upper

168 100

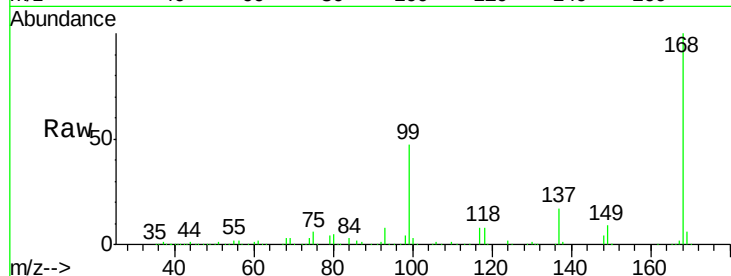
99 46.8 35.5 53.3

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

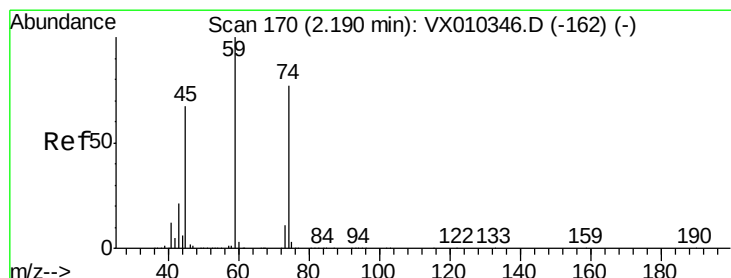
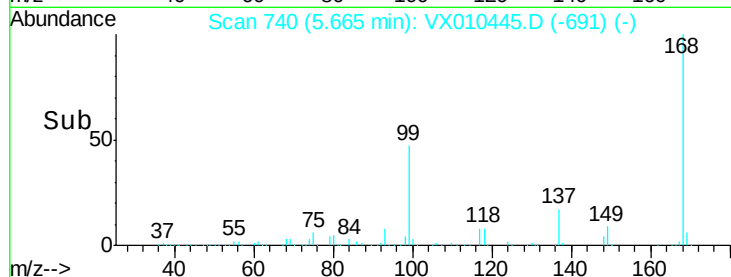
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 16.102 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX010445.D

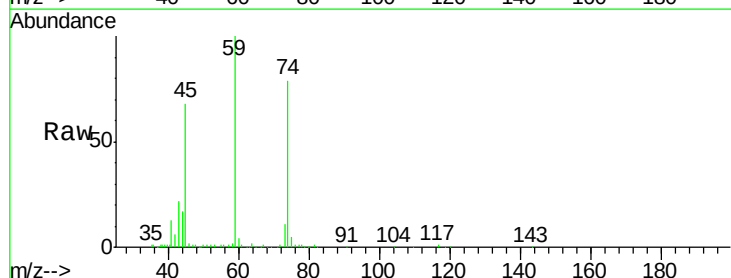
Acq: 25 Jun 2019 19:49

Tgt Ion: 74 Resp: 20732

Ion Ratio Lower Upper

74 100

45 92.3 44.8 134.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.19

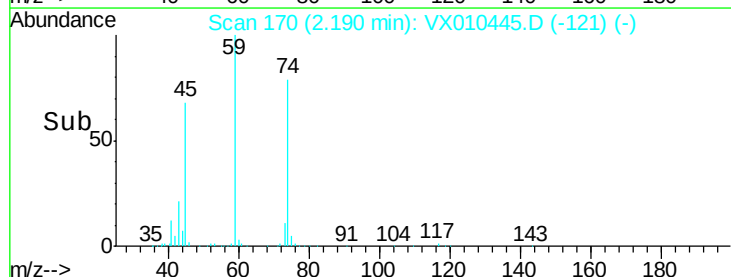
15000

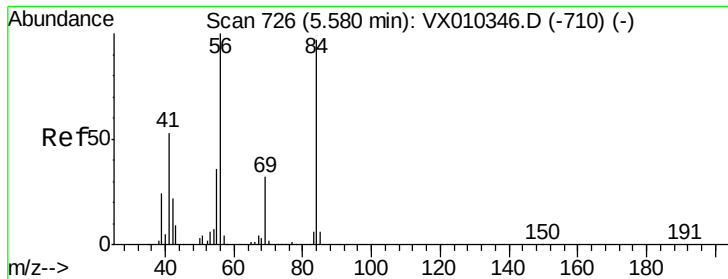
10000

5000

0

Time--> 2.10 2.15 2.20 2.25 2.30





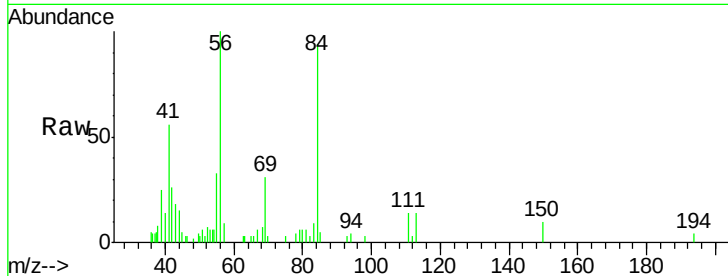
#31
Cyclohexane
Concen: 1.903 ug/l
RT: 5.59 min Scan# 727
Delta R.T. 0.01 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Instrument :
MSVOA_X
ClientSampleId :
SP-19-JMW0882

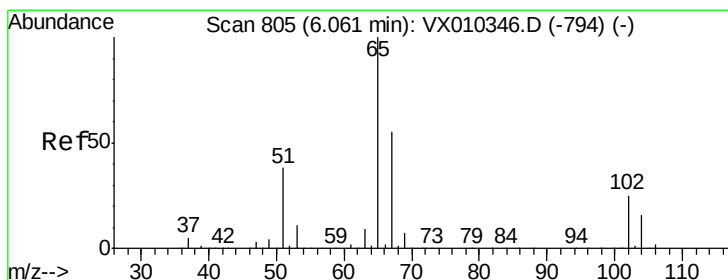
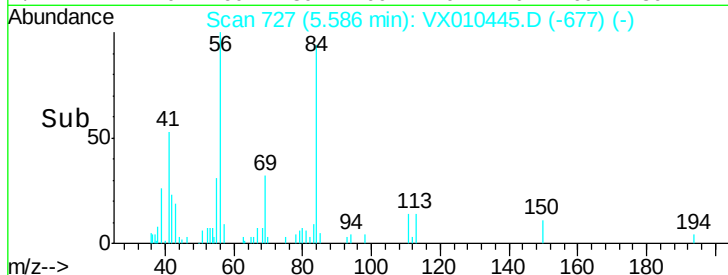
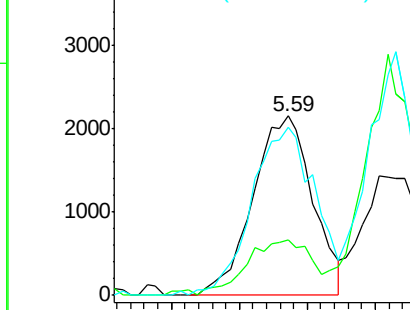
Tot Ion	Ratio	Lower	Upper
56	100		
69	27.9	25.9	38.9
84	93.9	78.0	117.0

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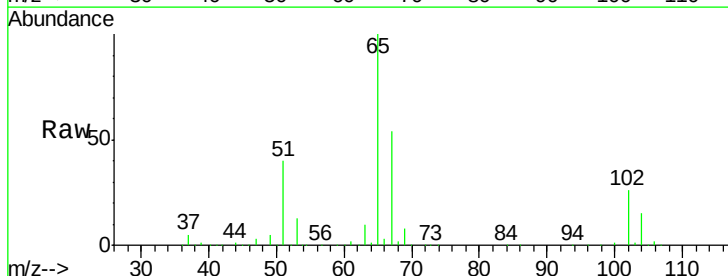


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

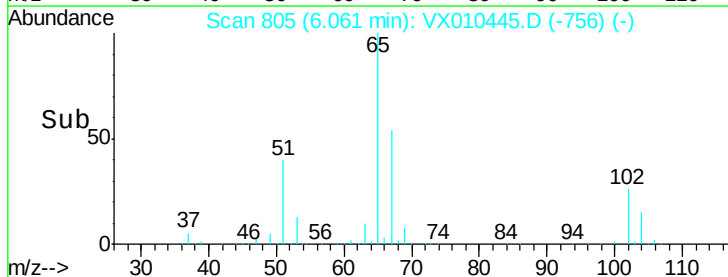
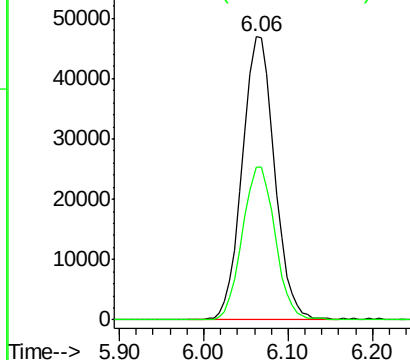


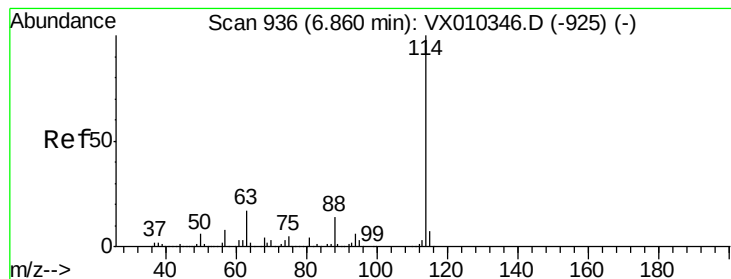
#33
1,2-Dichloroethane-d4
Concen: 50.922 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Tgt Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010445.D

Acq: 25 Jun 2019 19:49

Instrument :

MSVOA_X

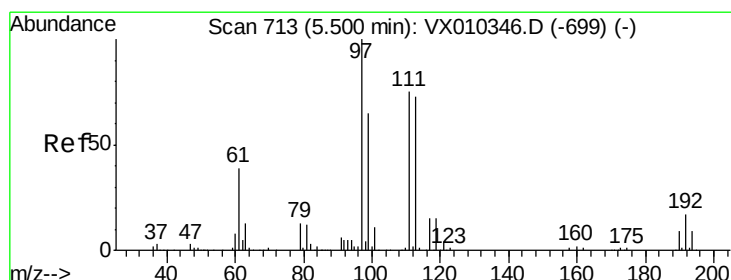
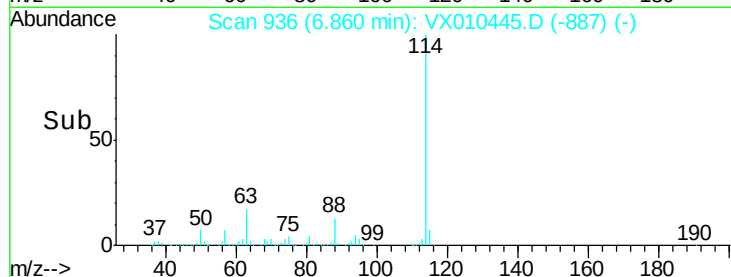
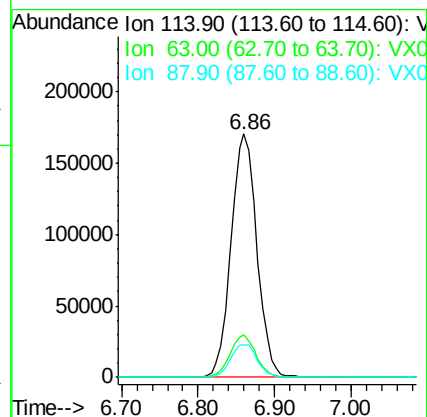
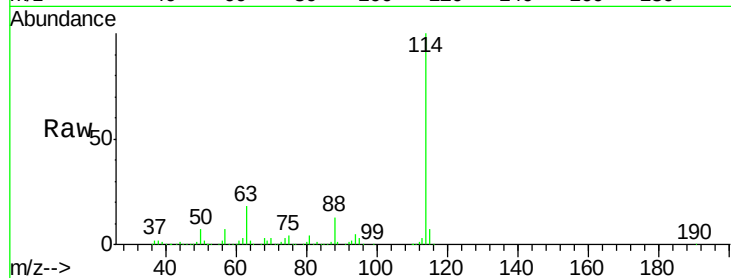
ClientSampleId :

SP-19-JMW0882

Tot Ion	Ion	Ratio	Resp	Lower	Upper
114	100		397717		
63	17.5	0.0	33.8		
88	13.5	0.0	27.6		

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#35

Dibromofluoromethane

Concen: 49.895 ug/l

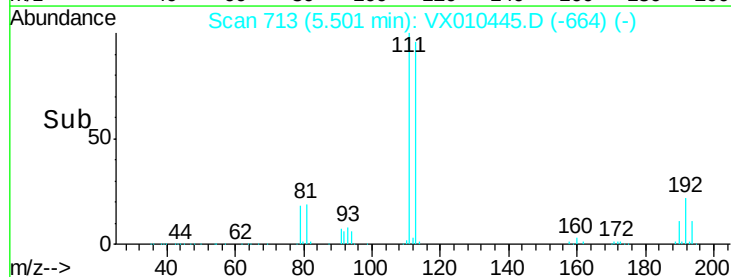
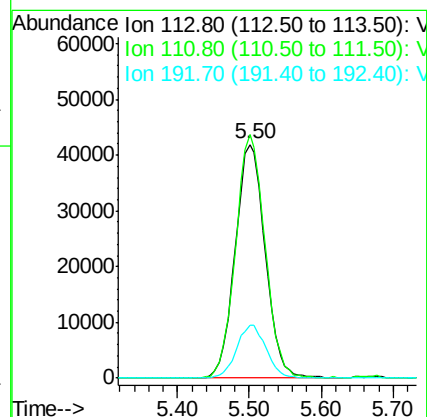
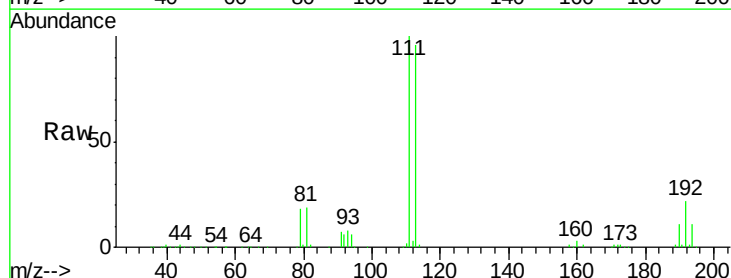
RT: 5.50 min Scan# 713

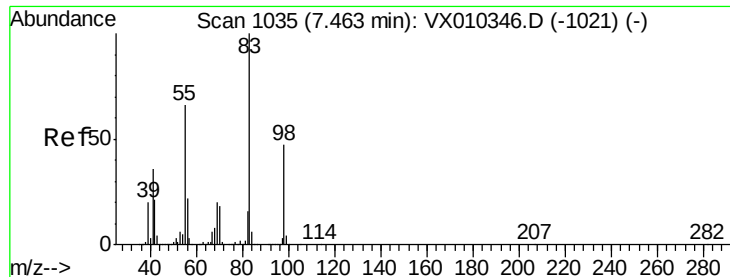
Delta R.T. 0.00 min

Lab File: VX010445.D

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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
113	100		121414		
111	101.7	81.2	121.8		
192	22.3	18.6	27.8		





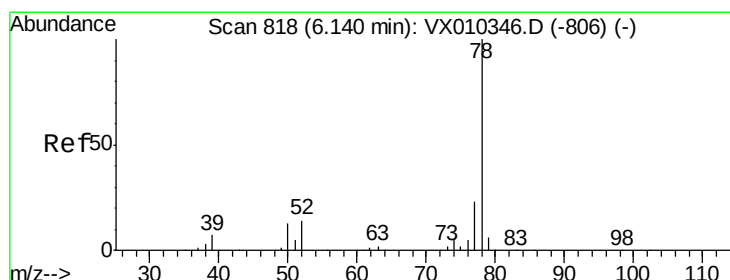
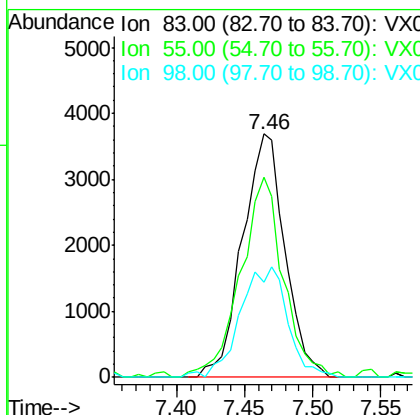
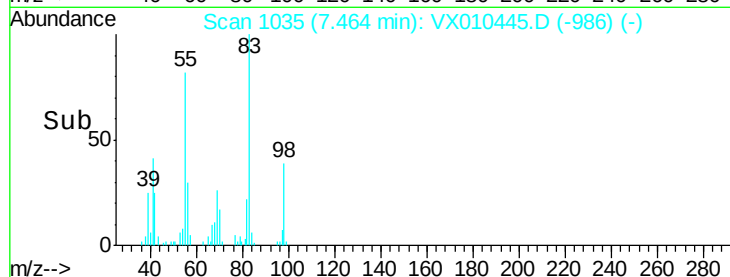
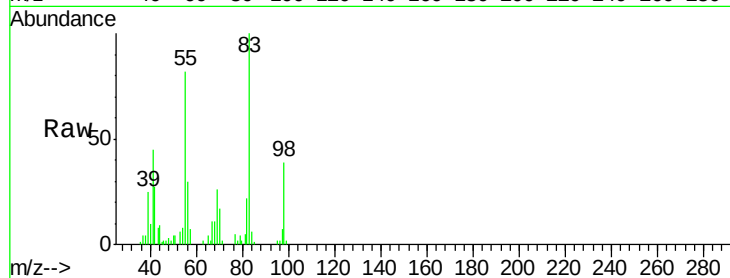
#39
Methylvclclohexane
Concen: 1.940 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Instrument :
MSVOA_X
ClientSampleId :
SP-19-JMW0882

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.9	53.0	79.6#
98	39.0	37.8	56.8

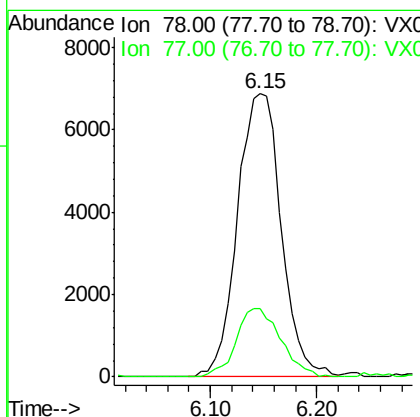
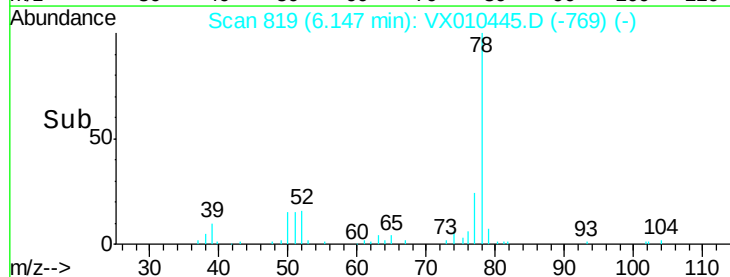
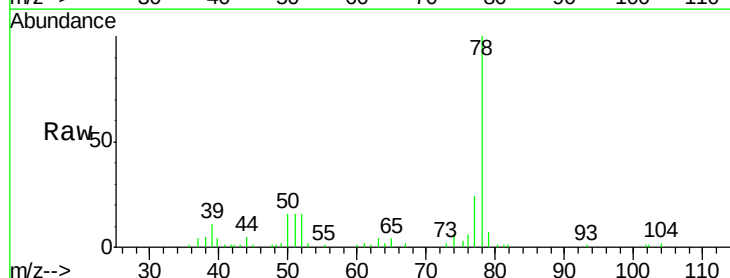
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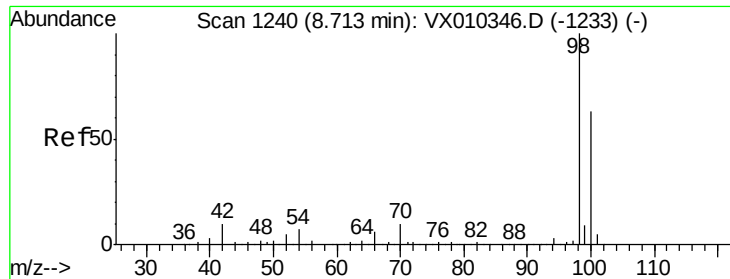
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#40
Benzene
Concen: 2.011 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0





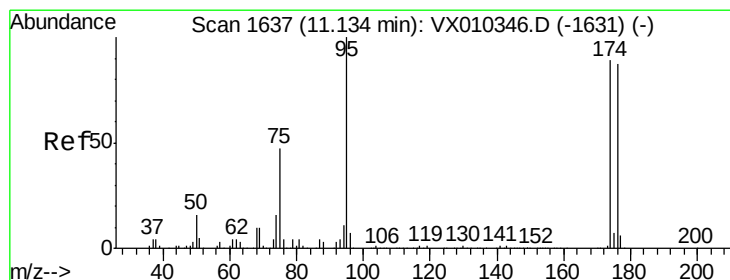
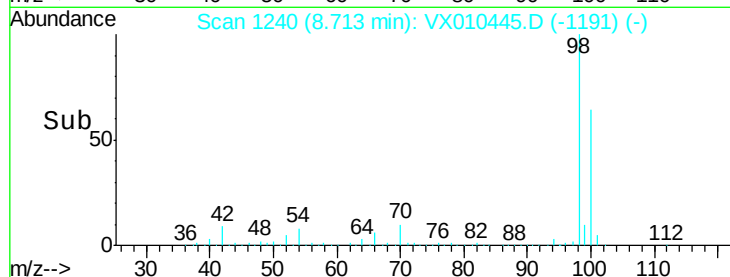
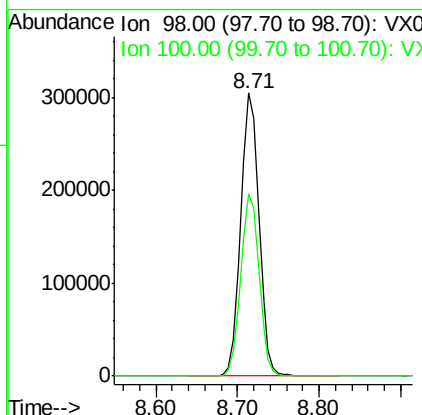
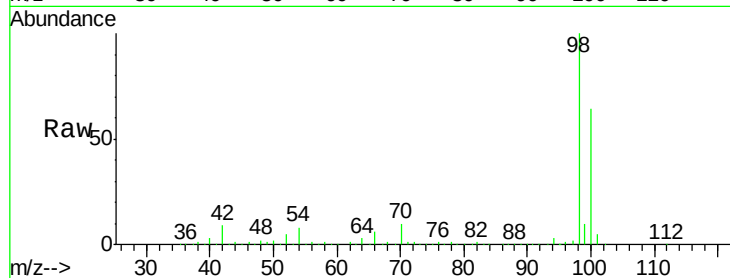
#50
Toluene-d8
Concen: 50.466 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Instrument :
MSVOA_X
ClientSampled :
SP-19-JMW0882

Tot Ion: 98 Resp: 469819
Ion Ratio Lower Upper
98 100
100 64.6 51.6 77.4

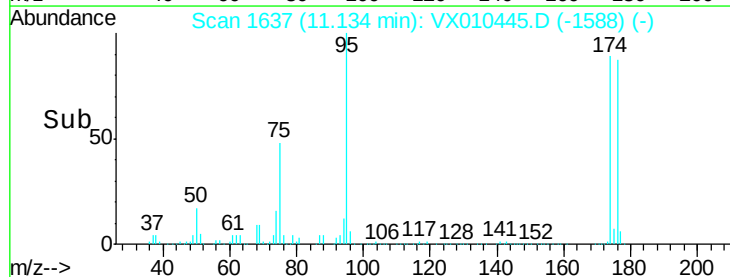
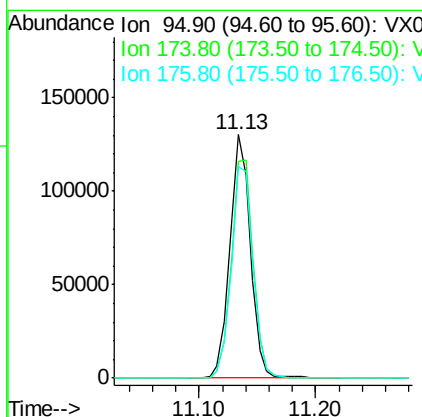
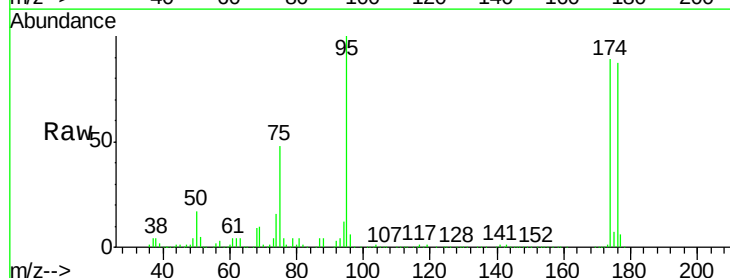
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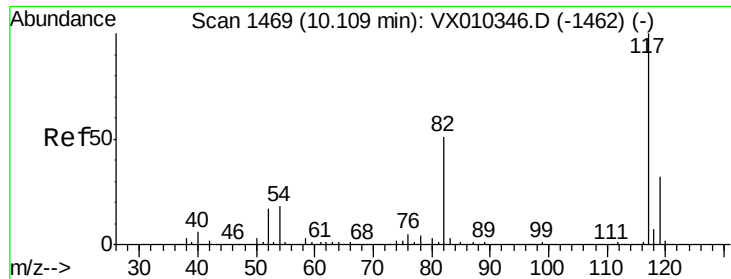
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#62
4-Bromofluorobenzene
Concen: 47.703 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Tgt Ion: 95 Resp: 160331
Ion Ratio Lower Upper
95 100
174 95.4 0.0 187.6
176 91.3 0.0 184.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010445.D

Acq: 25 Jun 2019 19:49

Instrument :

MSVOA_X

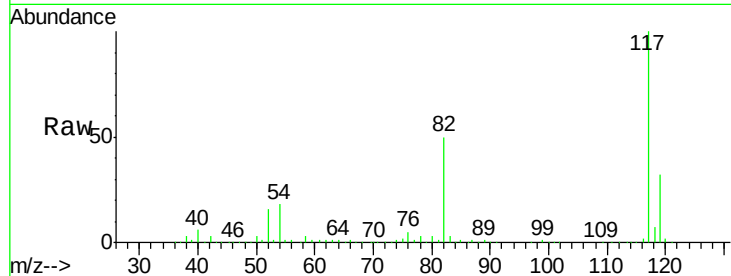
ClientSampleId :

SP-19-JMW0882

Tot Ion:	117	Resp:	362019
Ion Ratio	Lower	Upper	
117	100		
82	49.9	41.2	61.8
119	31.7	25.5	38.3

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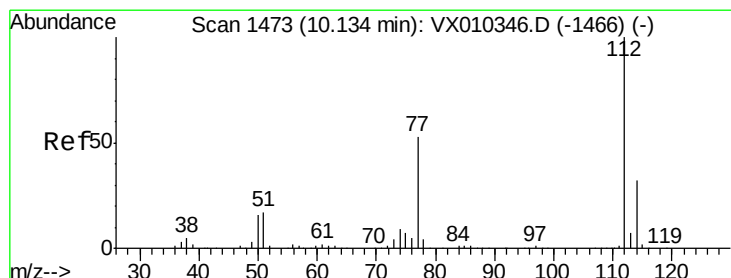
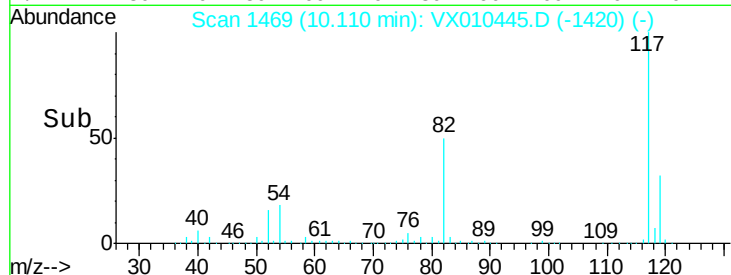
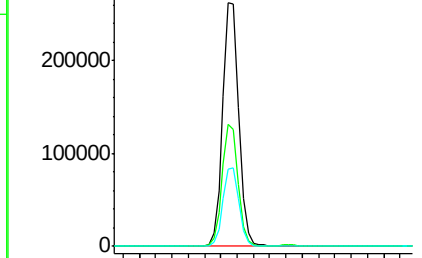
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#65

Chlorobenzene

Concen: 15.367 ug/l

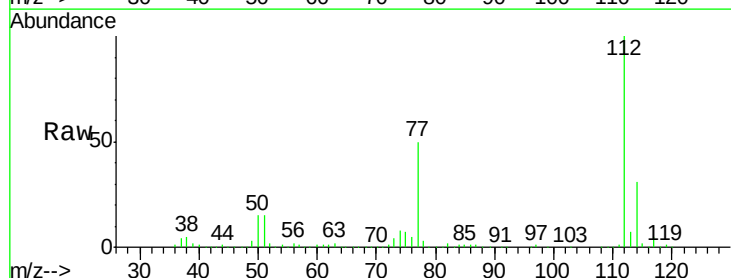
RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX010445.D

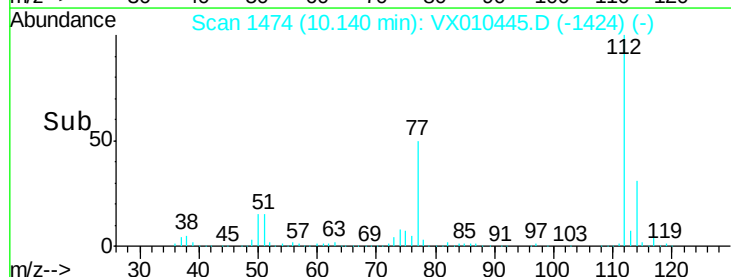
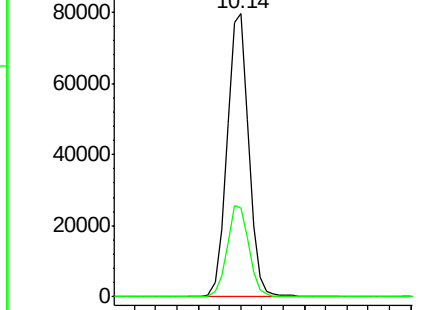
Acq: 25 Jun 2019 19:49

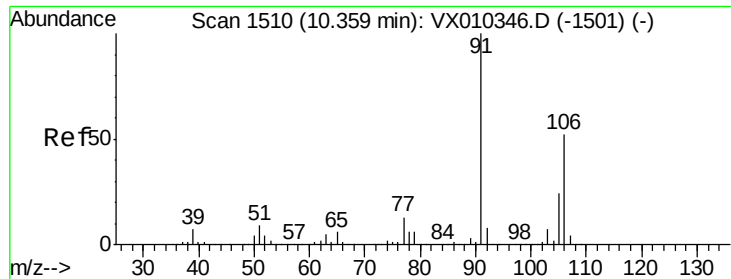
Tgt Ion:	112	Resp:	112939
Ion Ratio	Lower	Upper	
112	100		
114	31.2	25.4	38.2



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





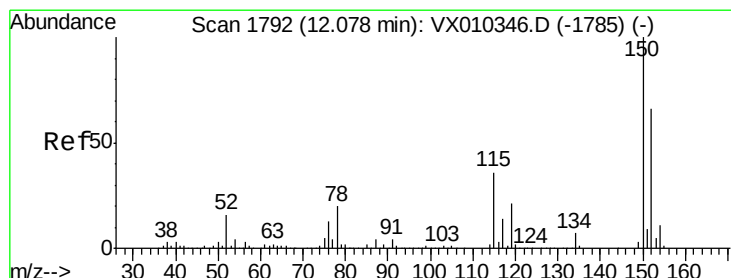
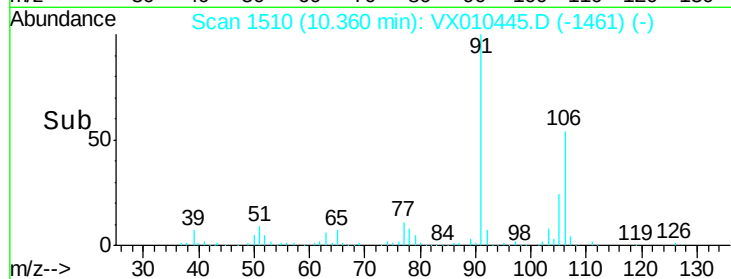
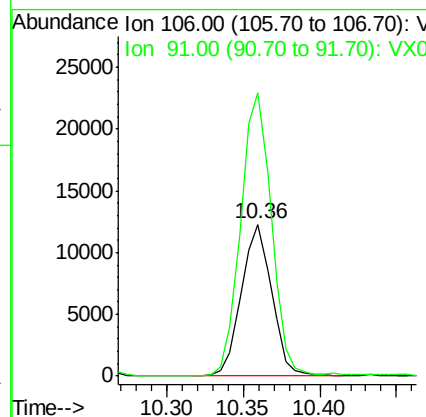
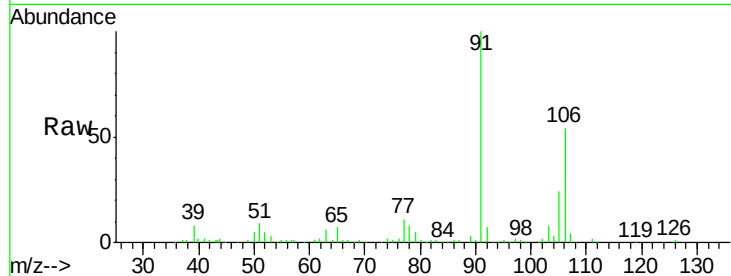
#68
m/p-Xvlenes
Concen: 3.537 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Instrument :
MSVOA_X
ClientSampleId :
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Tot Ion:106 Resp: 17004
Ion Ratio Lower Upper
106 100
91 191.0 155.3 232.9

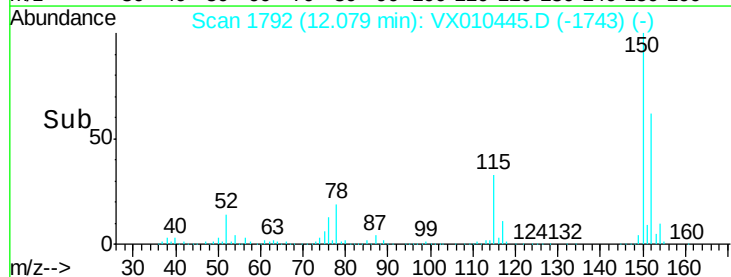
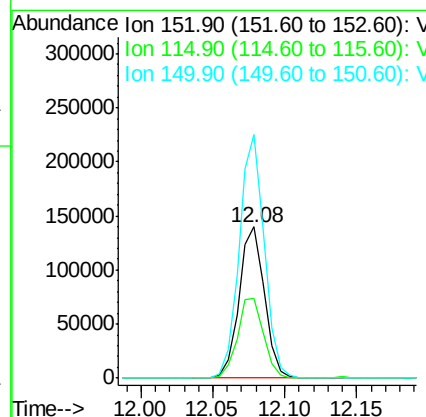
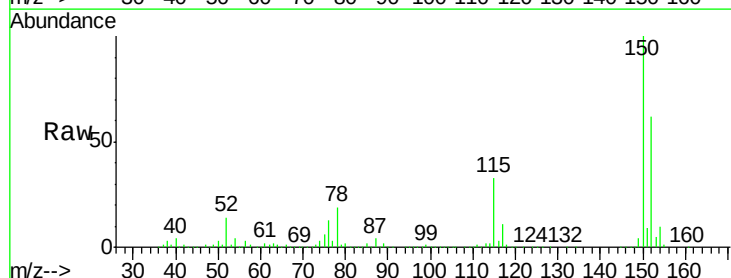
Manual Integrations
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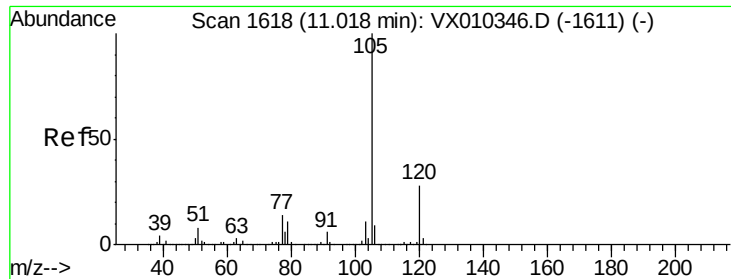
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Tgt Ion:152 Resp: 172087
Ion Ratio Lower Upper
152 100
115 54.7 38.6 115.7
150 158.8 0.0 347.4





#73

Isopropylbenzene

Concen: 1.316 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX010445.D

Acq: 25 Jun 2019 19:49

Instrument :

MSVOA_X

ClientSampleId :

SP-19-JMW0882

Tot Ion:105 Resp: 15354

Ion Ratio Lower Upper

105 100

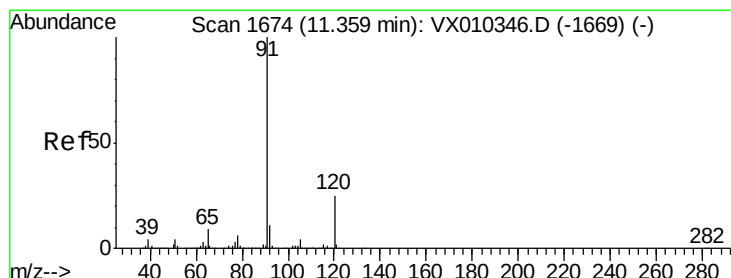
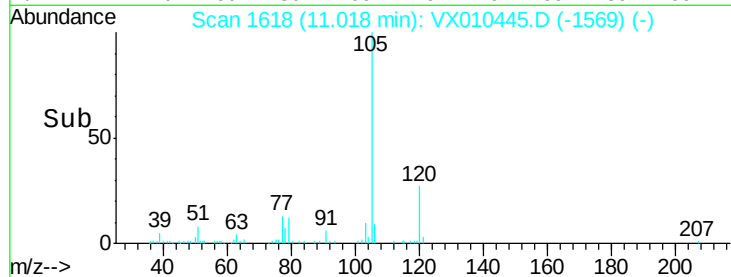
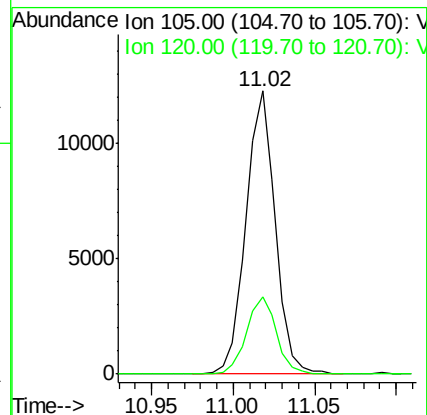
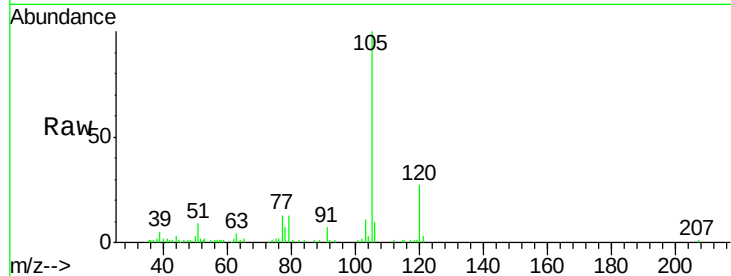
120 28.0 14.1 42.4

Manual Integrations

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#78

n-propylbenzene

Concen: 0.588 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX010445.D

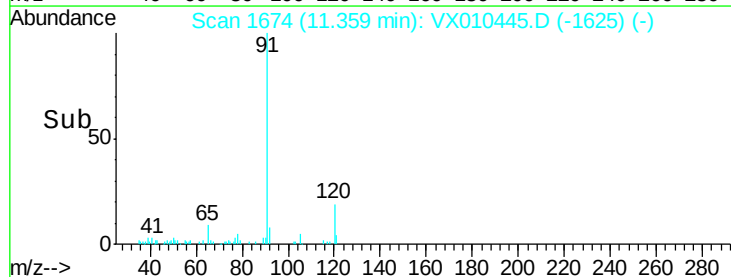
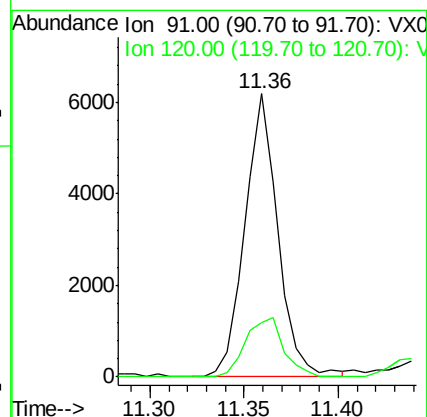
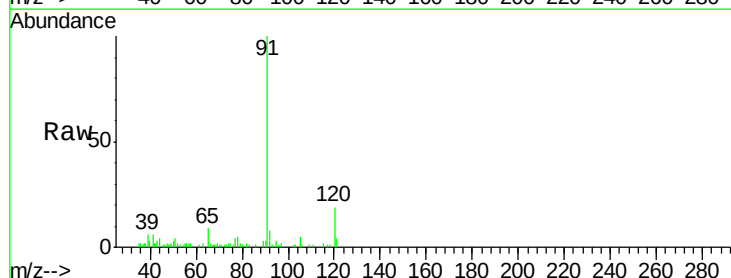
Acq: 25 Jun 2019 19:49

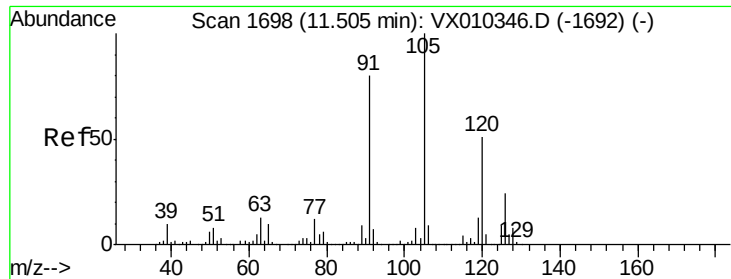
Tgt Ion: 91 Resp: 7545

Ion Ratio Lower Upper

91 100

120 23.8 12.4 37.4





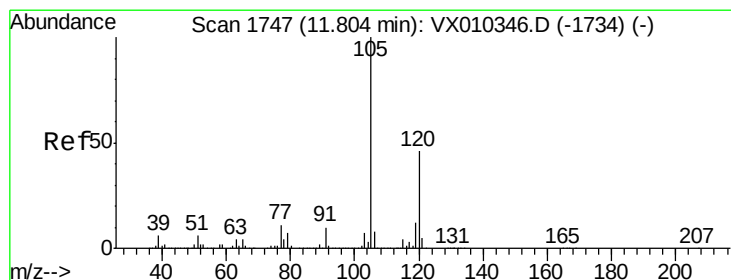
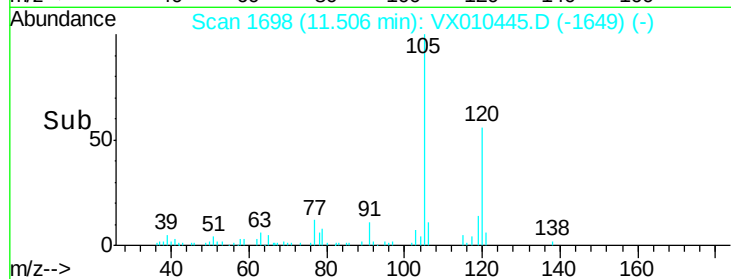
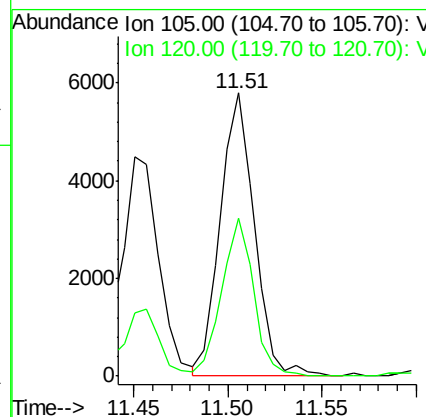
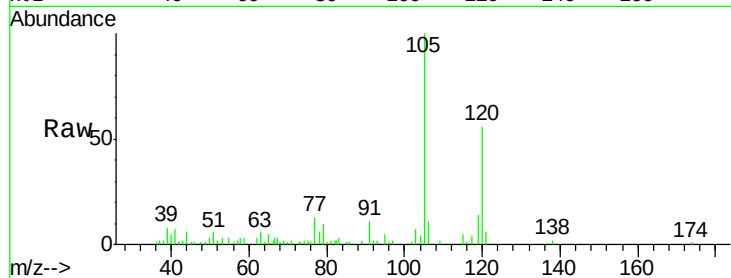
#80
 1,3,5-Trimethylbenzene
 Concen: 0.758 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX010445.D
 Acq: 25 Jun 2019 19:49

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-19-JMW0882

Tot Ion	Ratio	Lower	Upper
105	100		
120	52.1	25.2	75.6

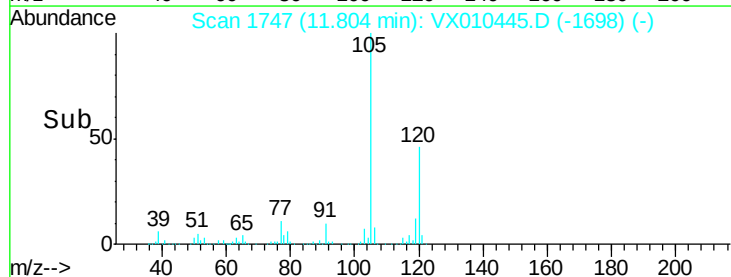
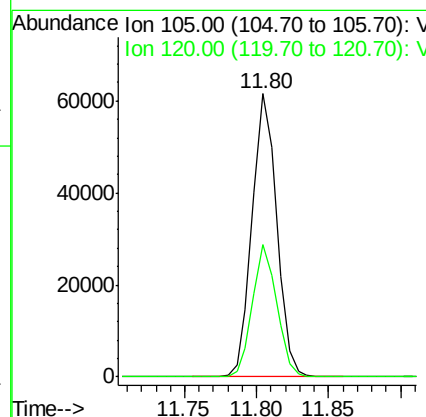
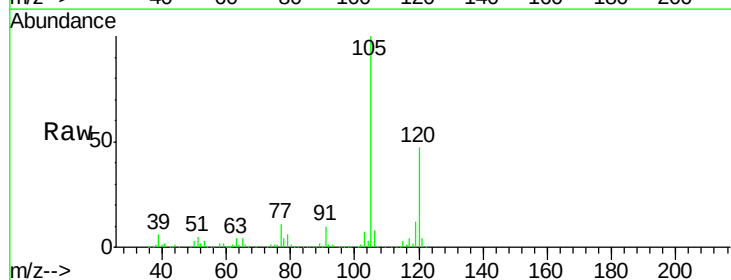
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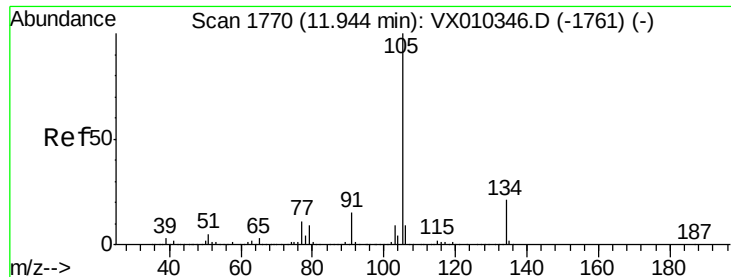
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#84
 1,2,4-Trimethylbenzene
 Concen: 7.536 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX010445.D
 Acq: 25 Jun 2019 19:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.1	69.2





#85

sec-Butylbenzene

Concen: 0.888 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX010445.D

Acq: 25 Jun 2019 19:49

Instrument :

MSVOA_X

ClientSampleId :

SP-19-JMW0882

Tot Ion:105 Resp: 10067

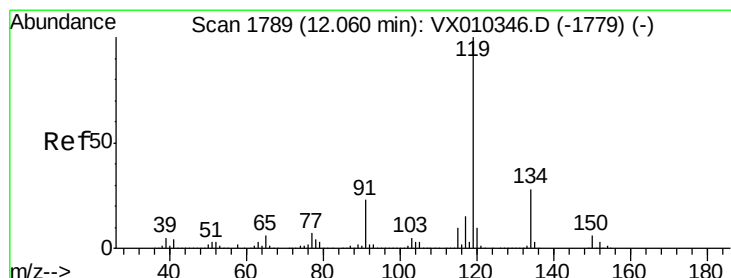
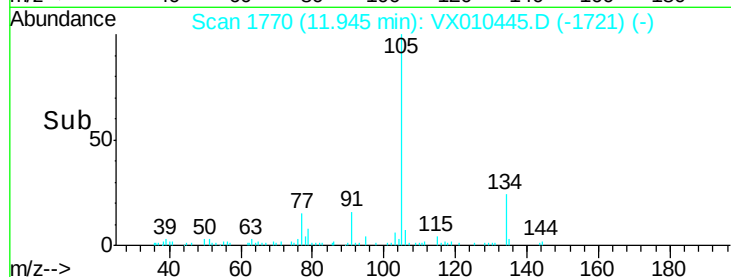
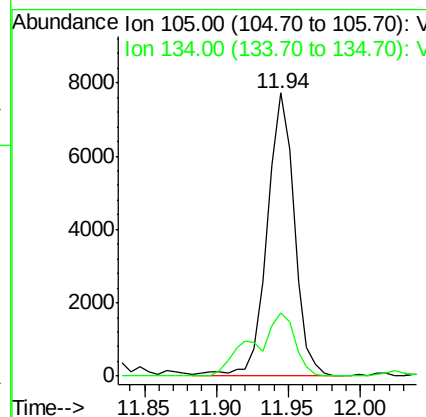
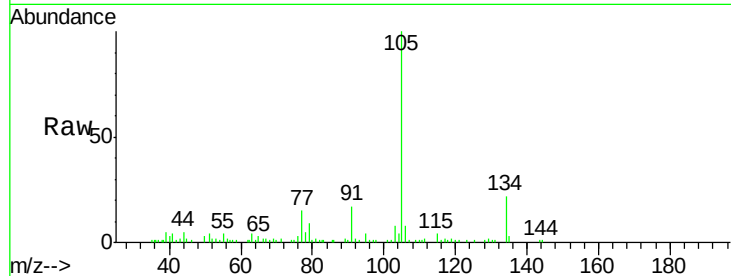
Ion Ratio Lower Upper

105 100

134 34.3 10.7 31.9#

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 0.372 ug/l m

RT: 12.07 min Scan# 1790

Delta R.T. 0.01 min

Lab File: VX010445.D

Acq: 25 Jun 2019 19:49

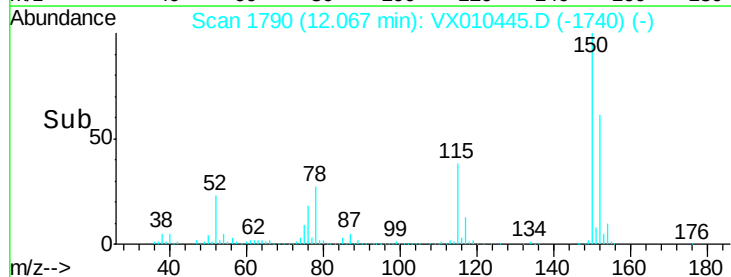
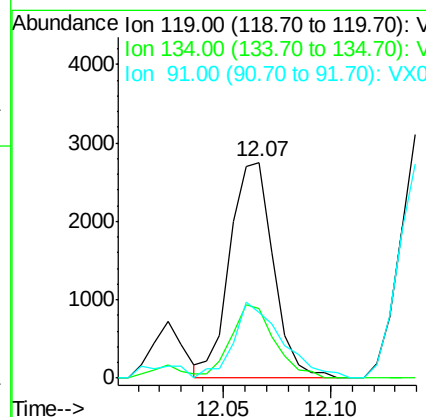
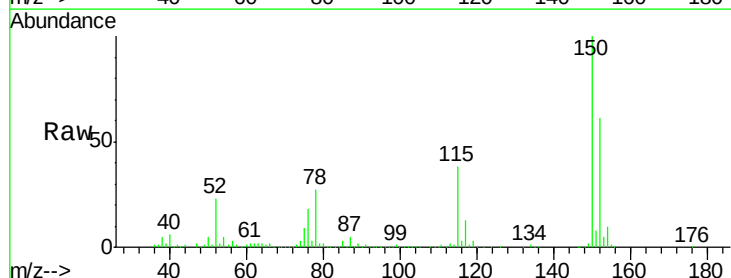
Tgt Ion:119 Resp: 3904

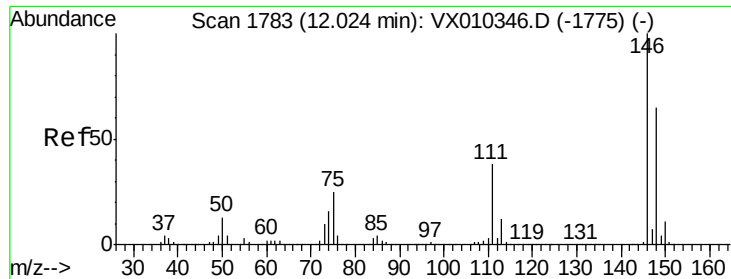
Ion Ratio Lower Upper

119 100

134 32.0 13.7 41.1

91 31.0 11.3 33.8





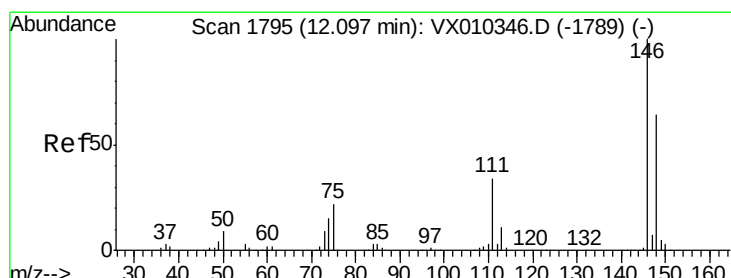
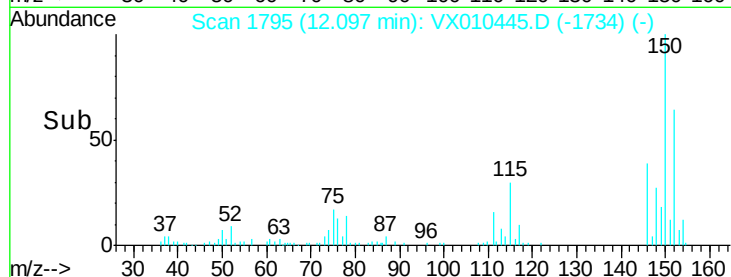
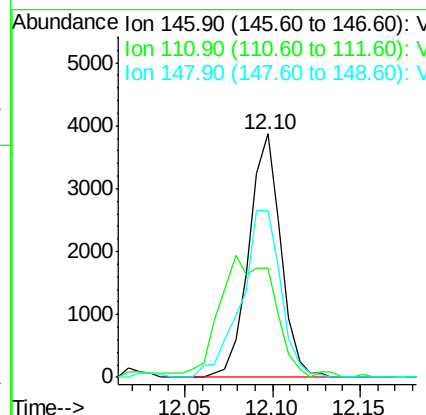
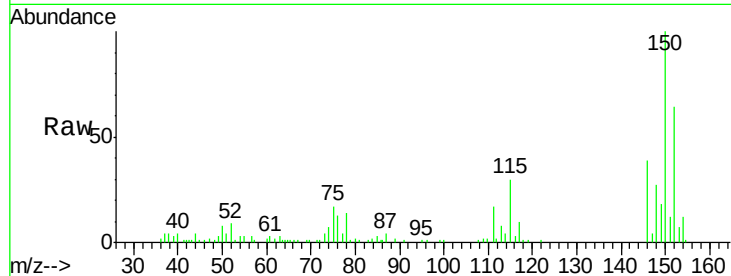
#87
 1,3-Dichlorobenzene
 Concen: 0.861 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.07 min
 Lab File: VX010445.D
 Acq: 25 Jun 2019 19:49

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-19-JMW0882

Tot Ion	Ratio	Lower	Upper
146	100		
111	84.1	19.1	57.1#
148	84.9	32.5	97.4

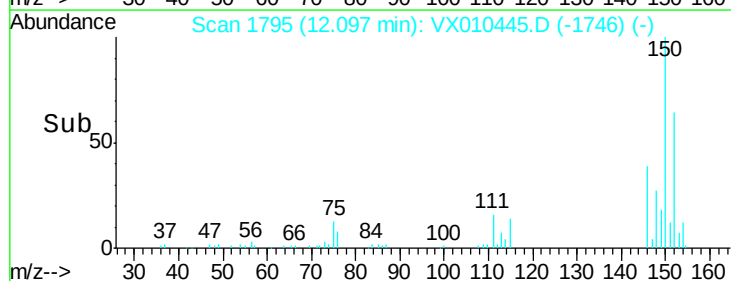
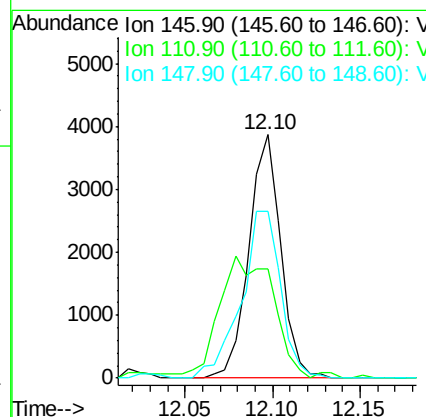
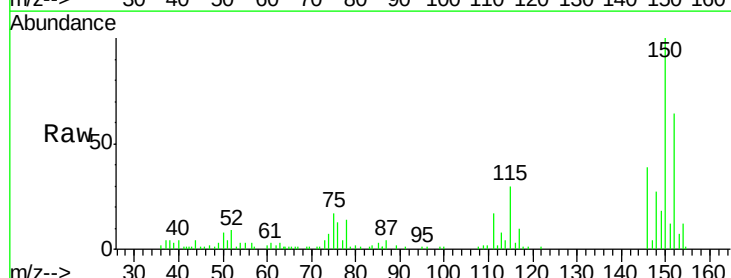
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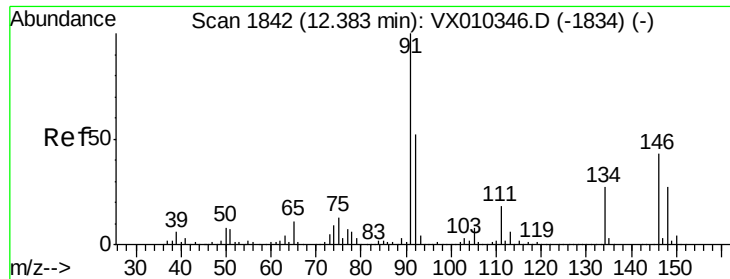
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#88
 1,4-Dichlorobenzene
 Concen: 0.846 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX010445.D
 Acq: 25 Jun 2019 19:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	84.1	18.1	54.3#
148	84.9	32.1	96.3





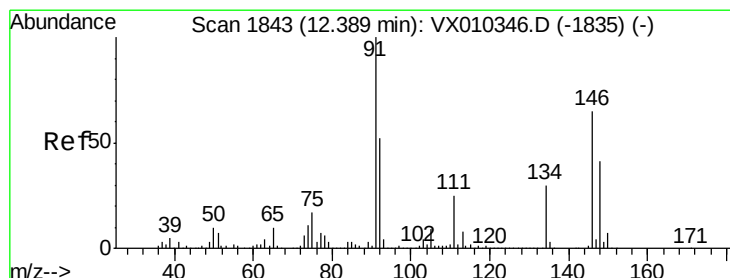
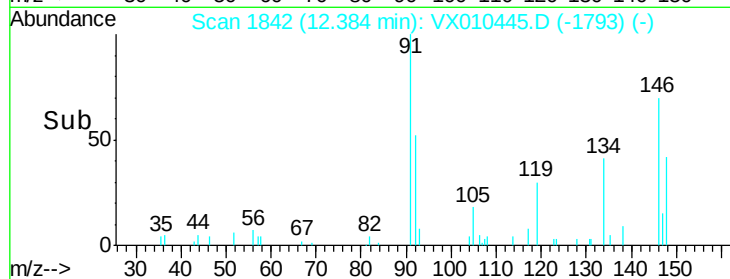
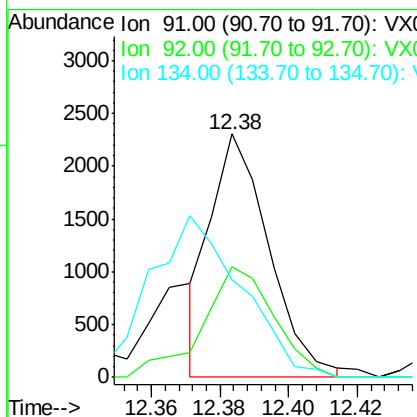
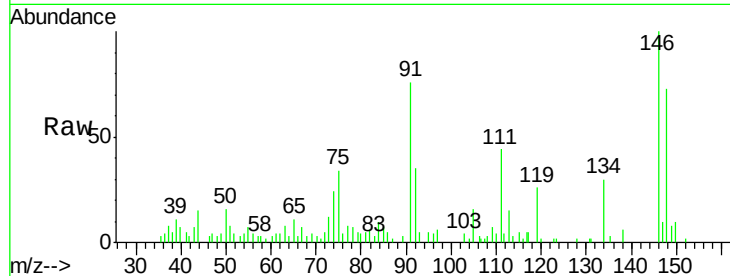
#89
n-Butylbenzene
Concen: 0.303 ug/l m
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Instrument :
MSVOA_X
ClientSampleId :
SP-19-JMW0882

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.8	26.2	78.5
134	104.8	14.1	42.4#

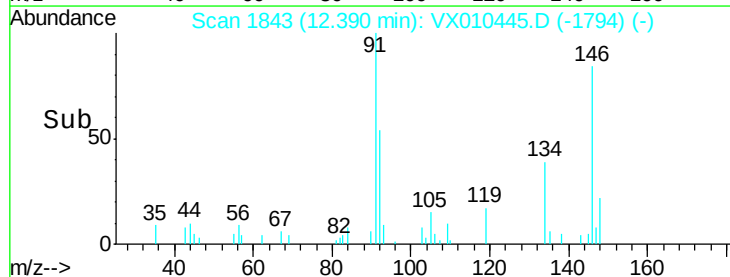
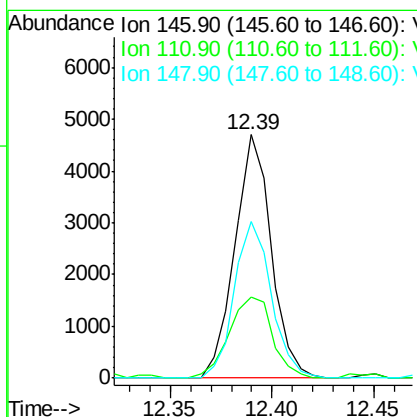
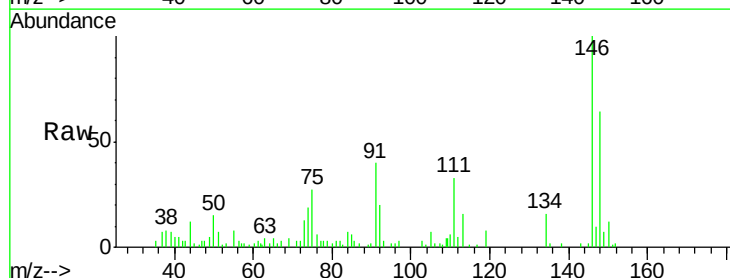
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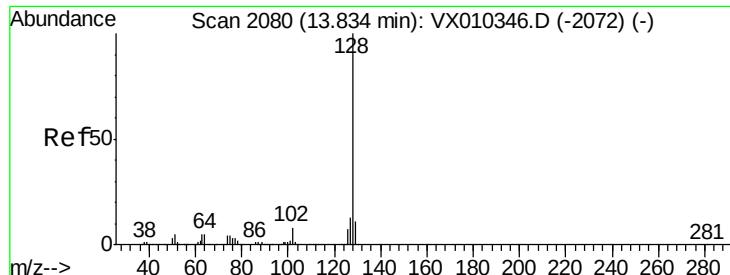
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#91
1,2-Dichlorobenzene
Concen: 1.030 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.2	57.6
148	65.2	32.0	96.0





#95
Naphthalene
Concen: 12.893 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010445.D
Acq: 25 Jun 2019 19:49

Instrument :
MSVOA_X
ClientSampleId :
SP-19-JMW0882

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	11.4	8.9	13.3

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