

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100319\
 Data File : VW013422.D
 Acq On : 03 Oct 2019 16:36
 Operator : SY/VA
 Sample : K5176-02
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 30440-3077

Manual Integrations
 APPROVED

MMDadoda
 10/4/2019 12:06:53 PM

Quant Time: Oct 04 09:44:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 11:49:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	241969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	362244	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	217628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	52103	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	108078	59.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.64%	
35) Dibromofluoromethane	7.88	113	106078	55.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.62%	
50) Toluene-d8	10.32	98	363883	46.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.26%	
62) 4-Bromofluorobenzene	12.62	95	78843	29.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.86%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.22	59	997144	3544.232	ug/l	99
16) Acetone	4.14	43	5300672	9571.582	ug/l	95
17) Carbon Disulfide	4.37	76	44348	7.137	ug/l	95
18) Methyl Acetate	4.68	43	30487	23.521	ug/l #	88
19) Methyl tert-butyl Ether	5.42	73	23147	7.061	ug/l #	71
25) 2-Butanone	7.17	43	98637	139.196	ug/l	95
31) Cyclohexane	7.92	56	215949	52.245	ug/l #	45
39) Methylcyclohexane	9.34	83	97987	22.114	ug/l	95
40) Benzene	8.32	78	27347	2.871	ug/l	99
48) Methyl methacrylate	9.43	41	466655	347.511	ug/l	93
51) 4-Methyl-2-Pentanone	10.21	43	715073	486.989	ug/l	98
52) Toluene	10.39	92	10379483	1689.591	ug/l	90
59) 2-Hexanone	10.97	43	32306m	31.742	ug/l	
64) Tetrachloroethene	10.86	164	19867	11.999	ug/l	94
67) Ethyl Benzene	11.73	91	347113	43.439	ug/l	100
68) m/p-Xylenes	11.83	106	433745	140.627	ug/l	100
69) o-Xylene	12.16	106	157577	55.256	ug/l	99
73) Isopropylbenzene	12.46	105	73460	19.275	ug/l	99
78) n-propylbenzene	12.80	91	290090	66.170	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	288861	91.240	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	880792	279.855	ug/l	100
85) sec-Butylbenzene	13.38	105	95906	25.155	ug/l	87
86) p-Isopropyltoluene	13.50	119	51017	14.439	ug/l	100
89) n-Butylbenzene	13.82	91	102749m	32.254	ug/l	
95) Naphthalene	15.36	128	120992	65.665	ug/l	98

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

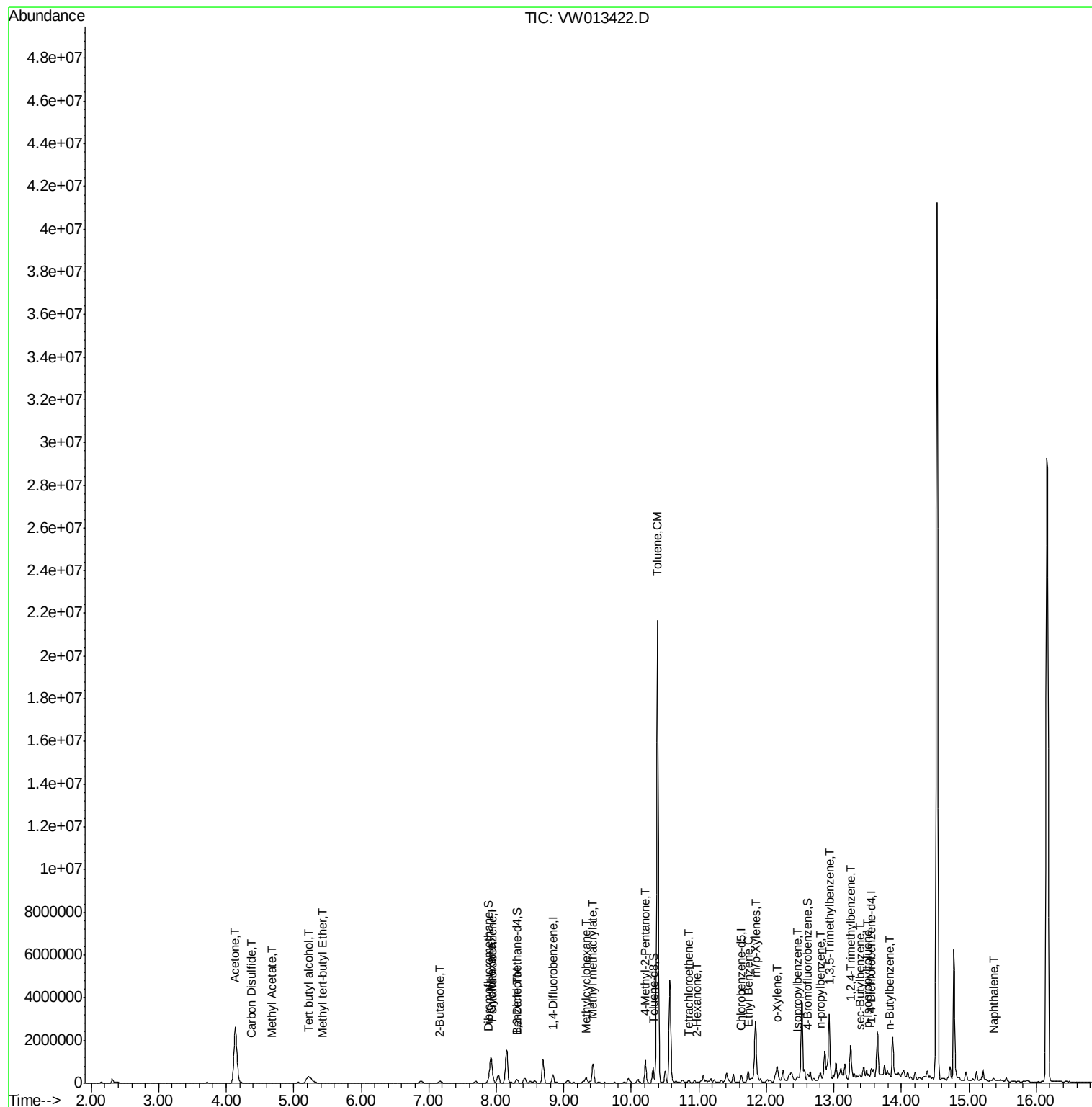
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100319\
Data File : VW013422.D
Acq On : 03 Oct 2019 16:36
Operator : SY/VA
Sample : K5176-02
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 12 Sample Multiplier: 1

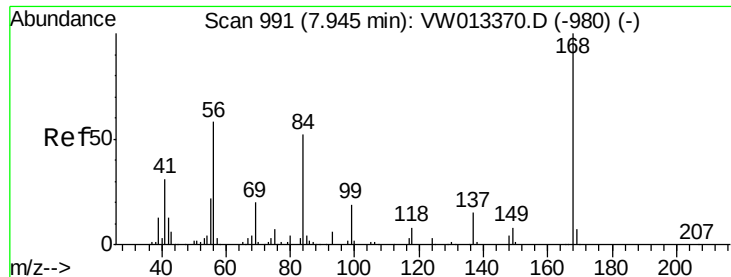
Instrument :
MSVOA_W
ClientSampleId :
30440-3077

Manual Integrations
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Quant Time: Oct 04 09:44:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 11:49:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

Tot Ion:168 Resp: 241969

Ion Ratio Lower Upper

168 100

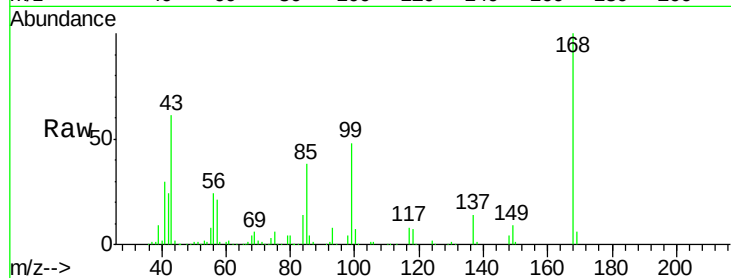
99 48.4 40.2 60.4

Manual Integrations

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10/4/2019 12:06:53 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

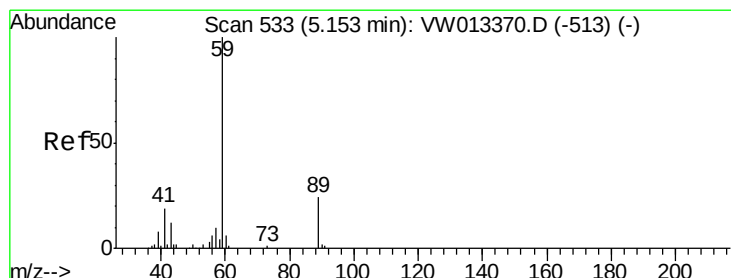
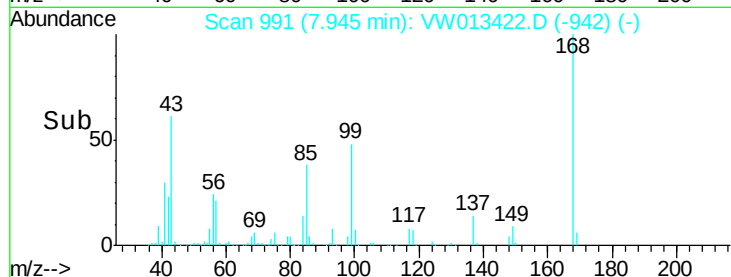
40000

20000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 3544.232 ug/l

RT: 5.22 min Scan# 544

Delta R.T. 0.07 min

Lab File: VW013422.D

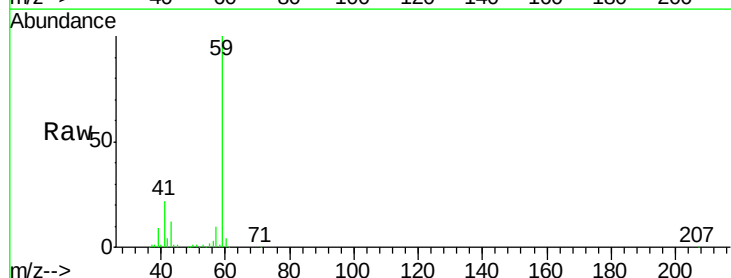
Acq: 03 Oct 2019 16:36

Tgt Ion: 59 Resp: 997144

Ion Ratio Lower Upper

59 100

57 9.9 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.22

200000

150000

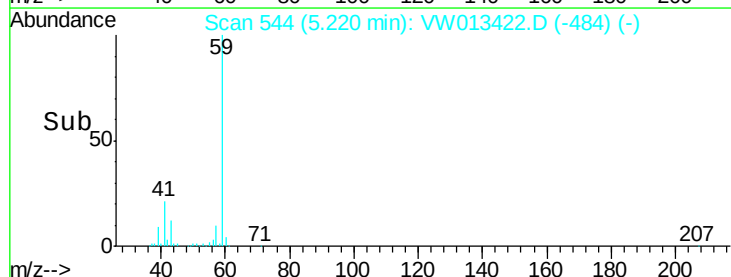
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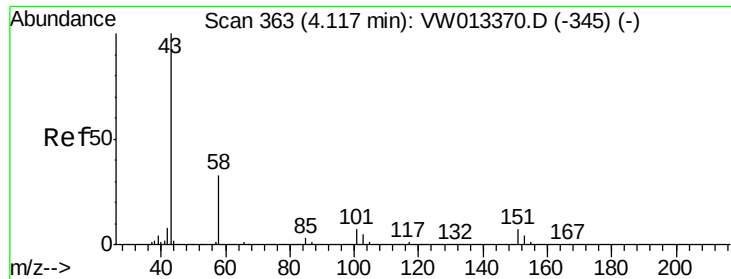
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0

5.00 5.20 5.40

Time-->





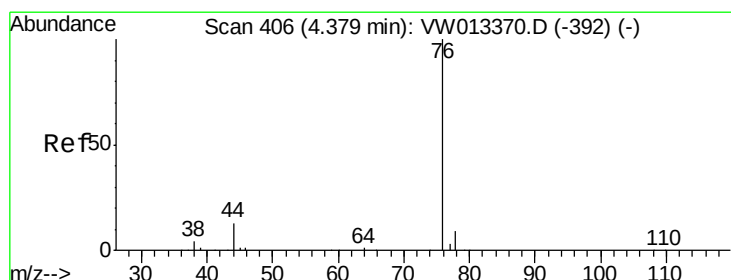
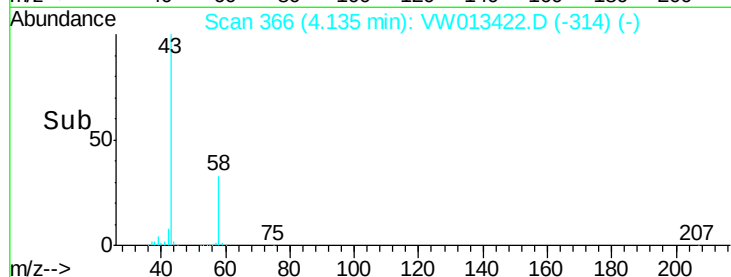
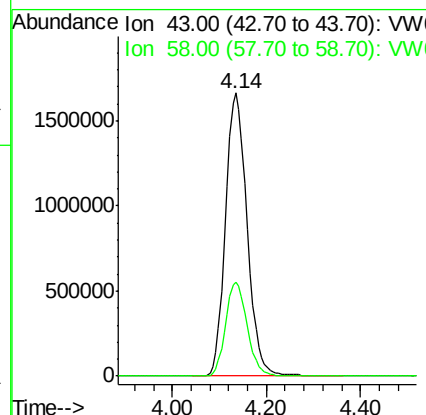
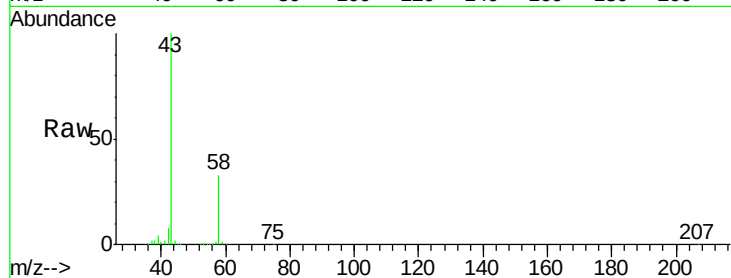
#16
Acetone
Concen: 9571.582 ug/l
RT: 4.14 min Scan# 366
Delta R.T. 0.02 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Instrument :
MSVOA_W
ClientSampleId :
30440-3077

Tot Ion: 43 Resp: 5300672
Ion Ratio Lower Upper
43 100
58 32.9 24.1 36.1

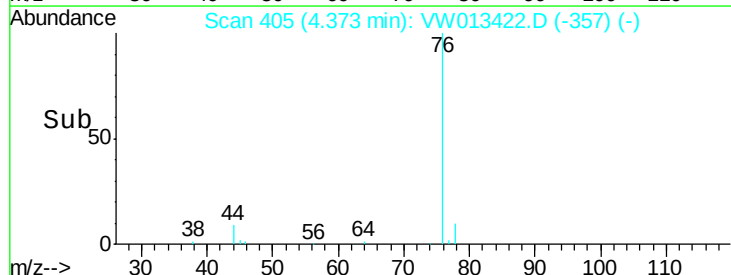
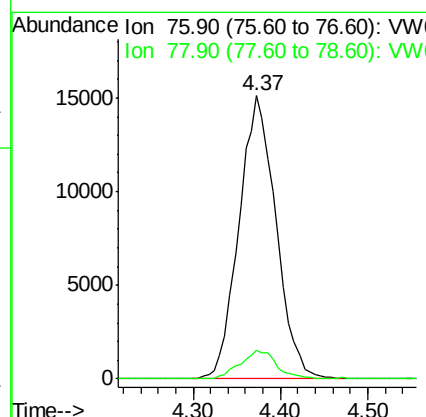
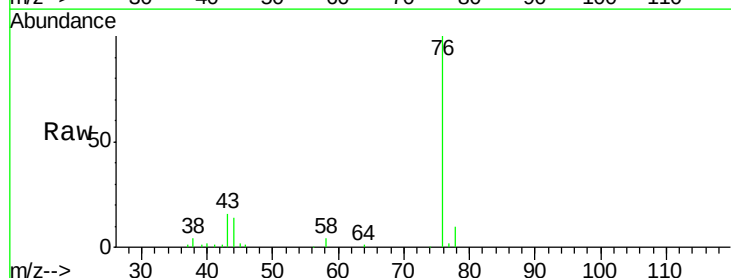
Manual Integrations
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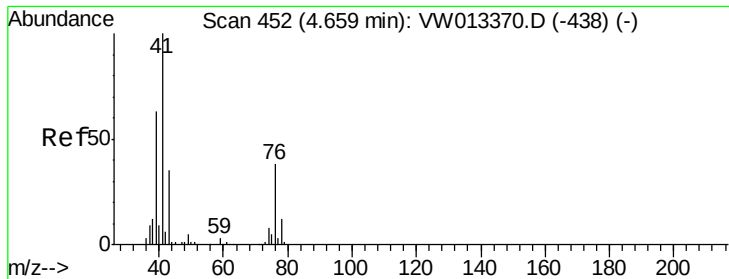
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#17
Carbon Disulfide
Concen: 7.137 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Tgt Ion: 76 Resp: 44348
Ion Ratio Lower Upper
76 100
78 10.3 7.0 10.4





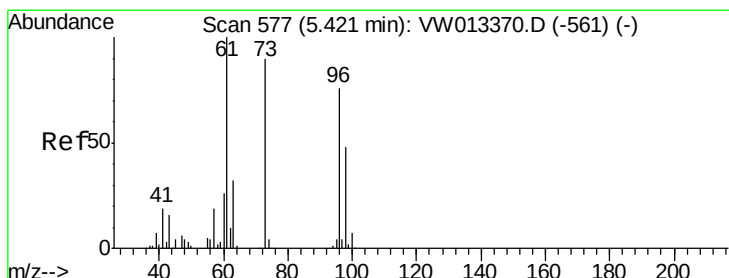
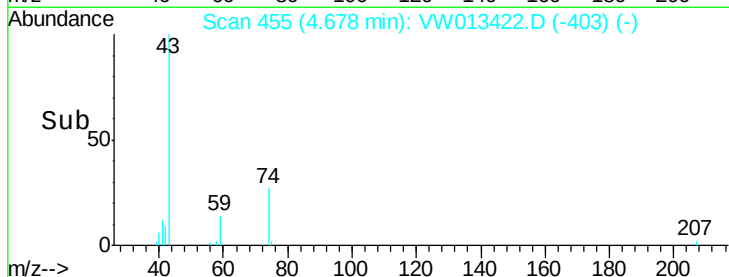
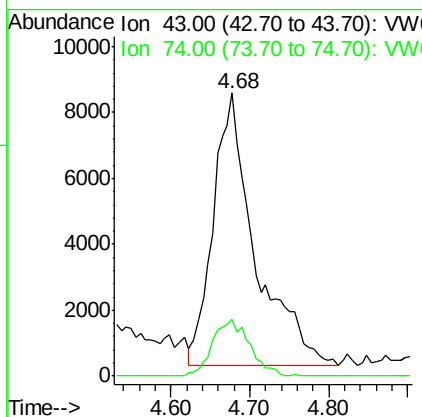
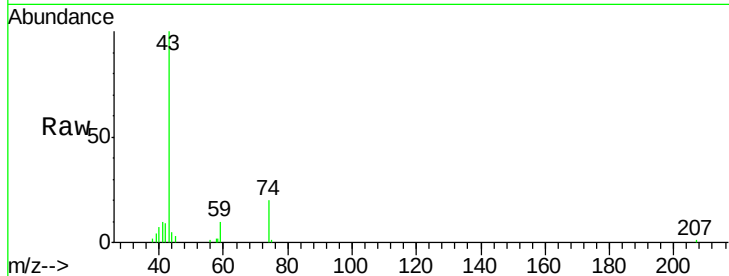
#18
Methyl Acetate
Concen: 23.521 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.02 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Instrument :
MSVOA_W
ClientSampleId :
30440-3077

Tot Ion: 43 Resp: 30487
Ion Ratio Lower Upper
43 100
74 18.4 19.3 28.9#

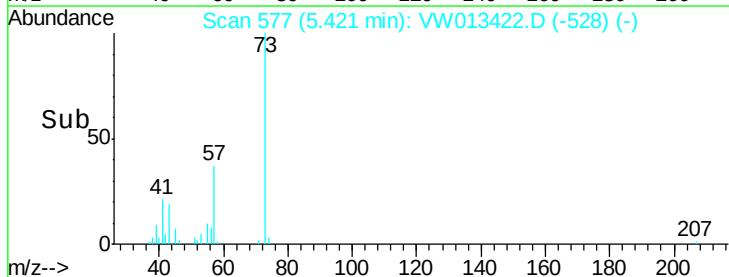
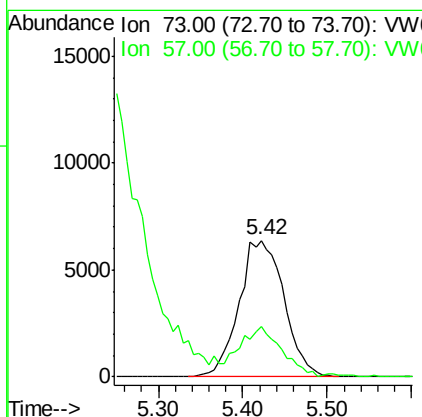
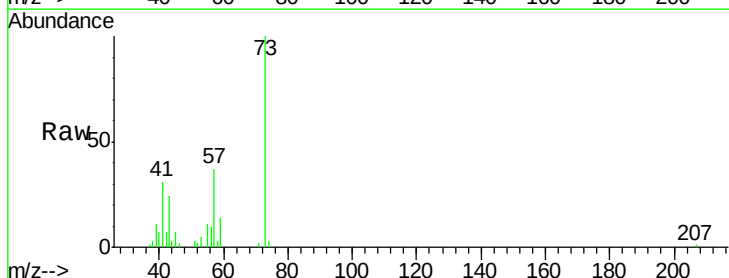
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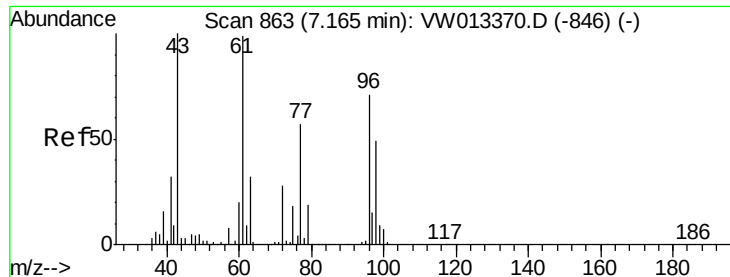
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#19
Methyl tert-butyl Ether
Concen: 7.061 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Tgt Ion: 73 Resp: 23147
Ion Ratio Lower Upper
73 100
57 35.7 17.6 26.4#





#25

2-Butanone

Concen: 139.196 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

Tot Ion: 43 Resp: 98637

Ion Ratio Lower Upper

43 100

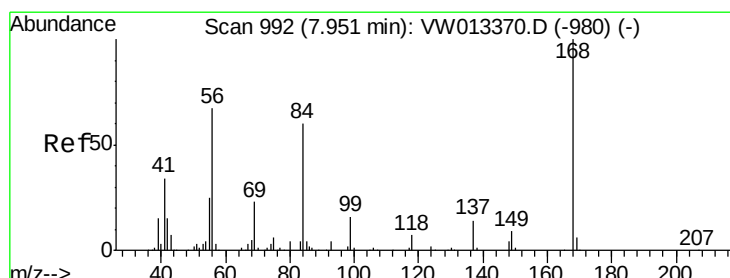
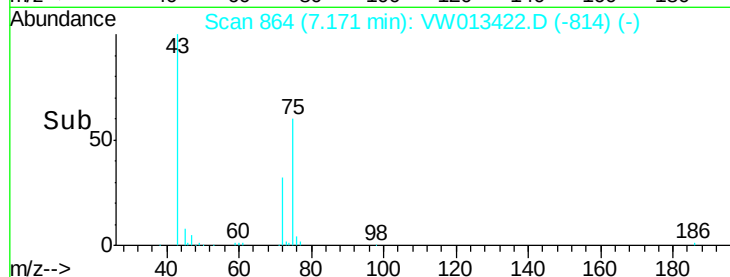
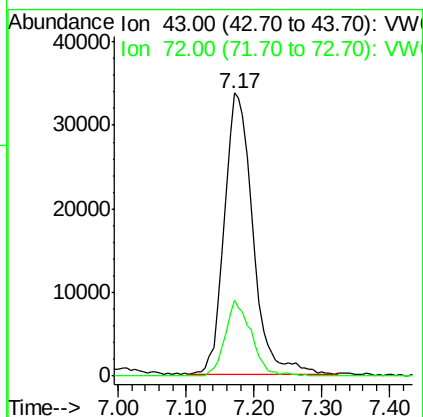
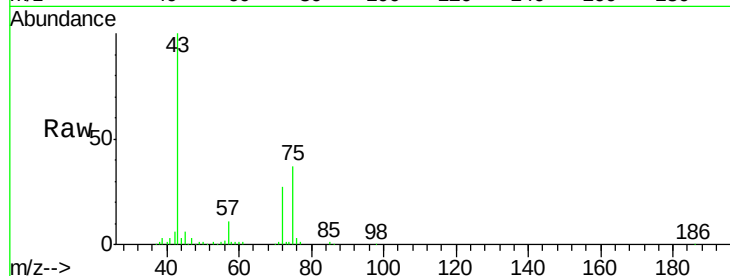
72 26.8 19.4 29.0

Manual Integrations

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#31

Cyclohexane

Concen: 52.245 ug/l

RT: 7.92 min Scan# 987

Delta R.T. -0.03 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

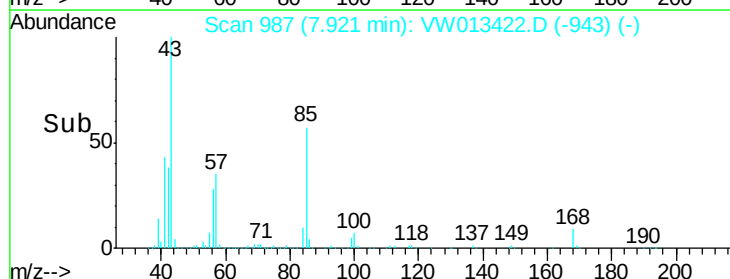
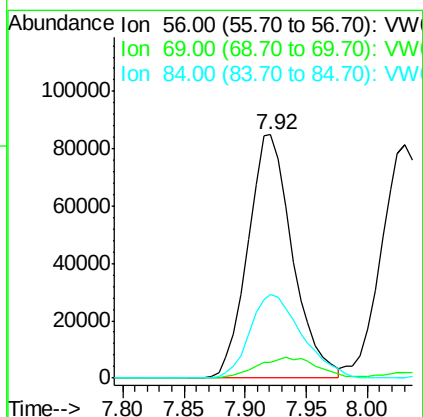
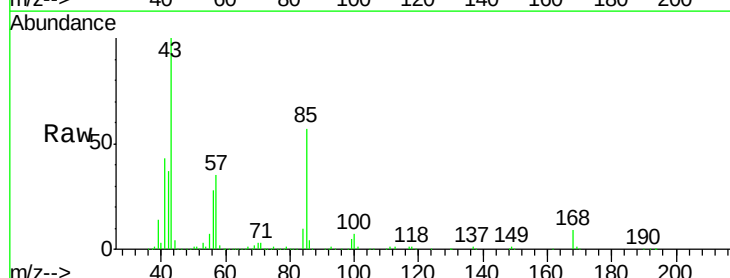
Tgt Ion: 56 Resp: 215949

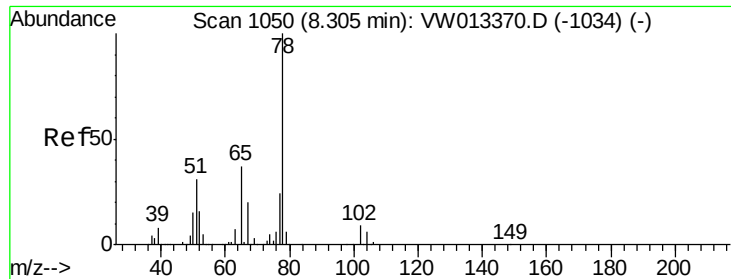
Ion Ratio Lower Upper

56 100

69 6.6 27.2 40.8#

84 34.6 70.8 106.2#





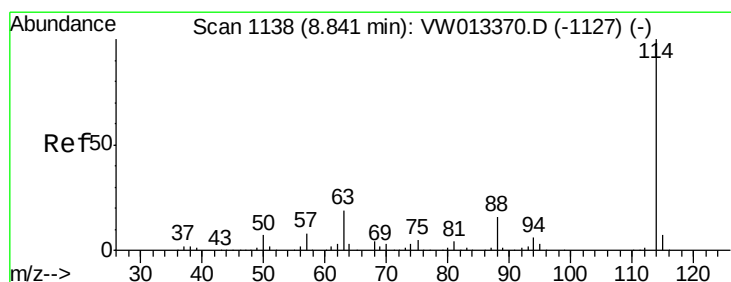
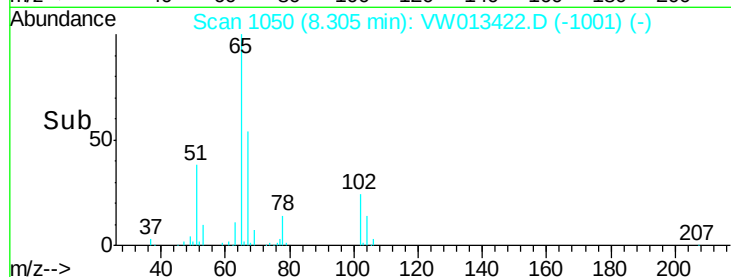
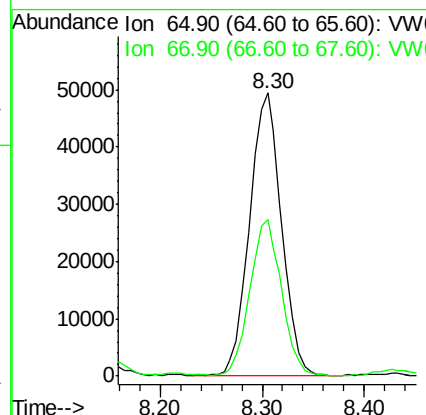
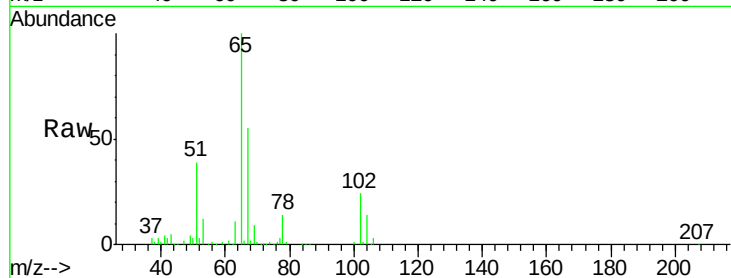
#33
 1,2-Dichloroethane-d4
 Concen: 59.820 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 16:36

Instrument :
 MSVOA_W
 ClientSampled :
 30440-3077

Tot Ion	Ratio	Resp	Lower	Upper
65	100	108078		
67	54.3	0.0	106.2	

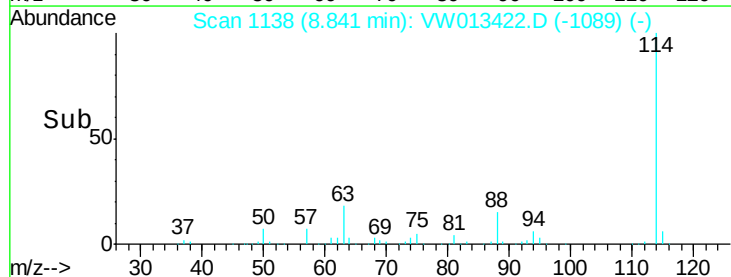
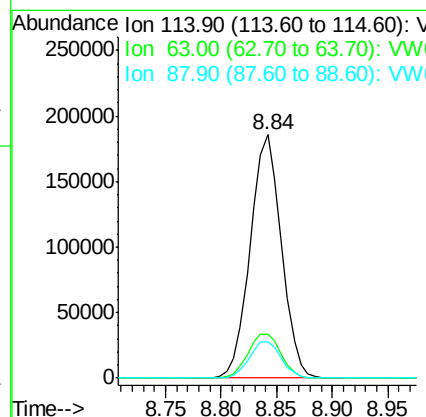
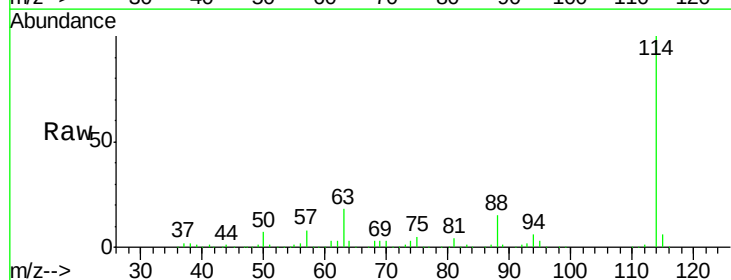
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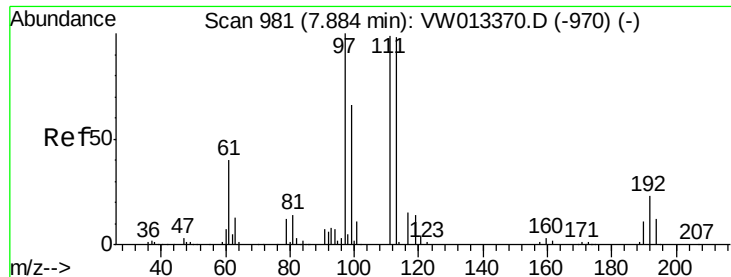
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 16:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	362244		
63	18.3	0.0	41.4	
88	14.9	0.0	32.0	





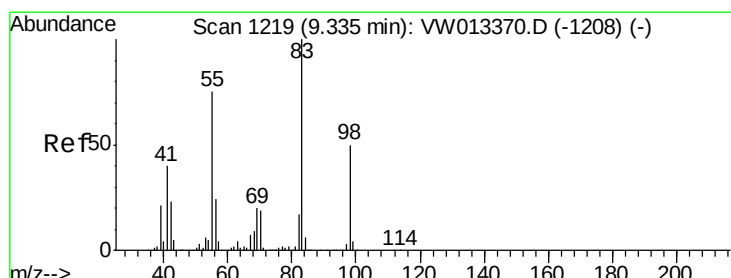
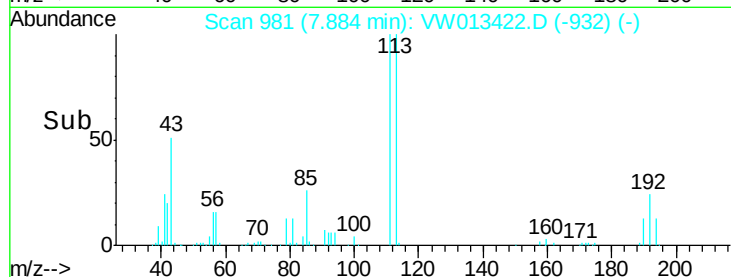
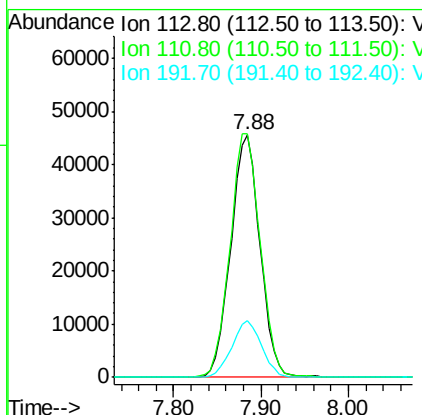
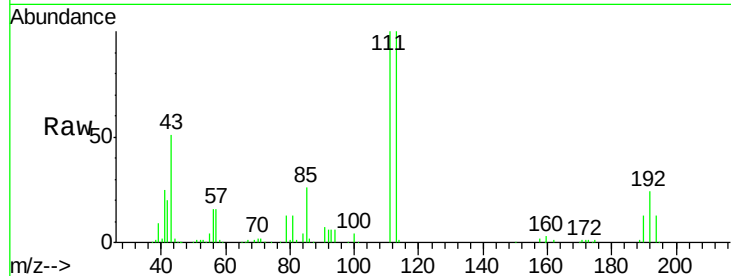
#35
Dibromofluoromethane
Concen: 55.808 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Instrument :
MSVOA_W
ClientSampleId :
30440-3077

Tot Ion	Ratio	Resp	Lower	Upper
113	100	106078		
111	103.5	81.9	122.9	
192	23.6	19.1	28.7	

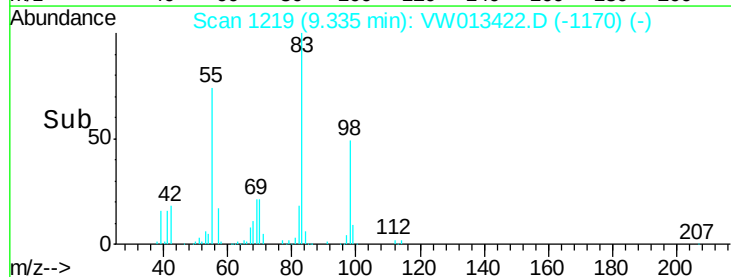
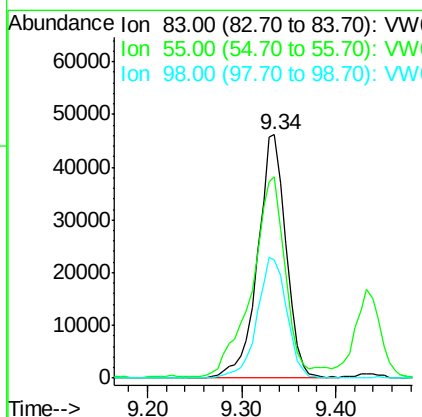
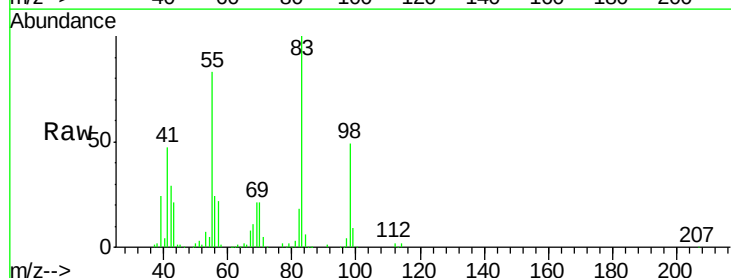
Manual Integrations
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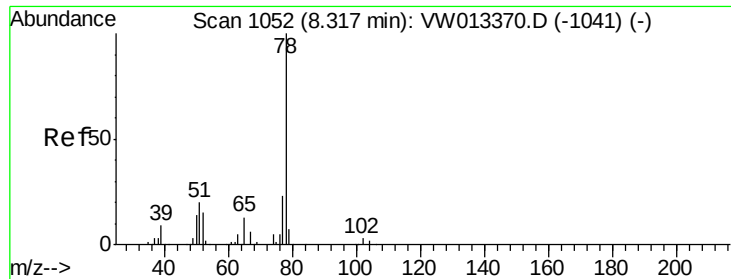
MMDadoda
10/4/2019 12:06:53 PM



#39
Methylcyclohexane
Concen: 22.114 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	97987		
55	81.9	60.4	90.6	
98	48.5	40.0	60.0	





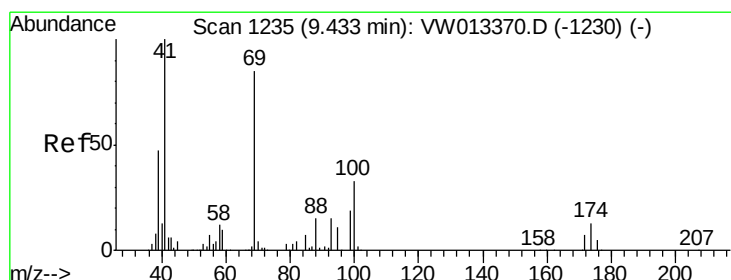
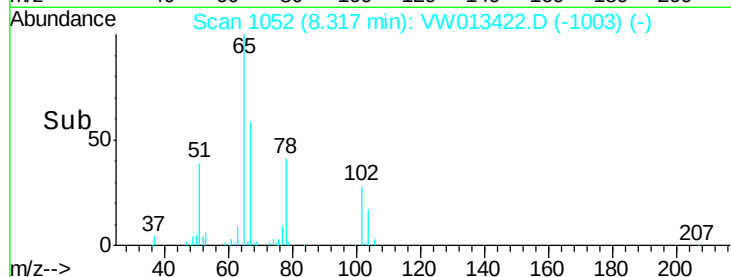
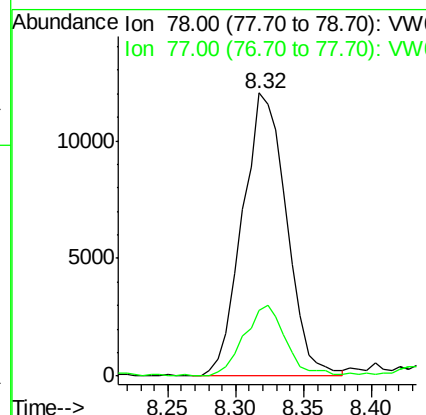
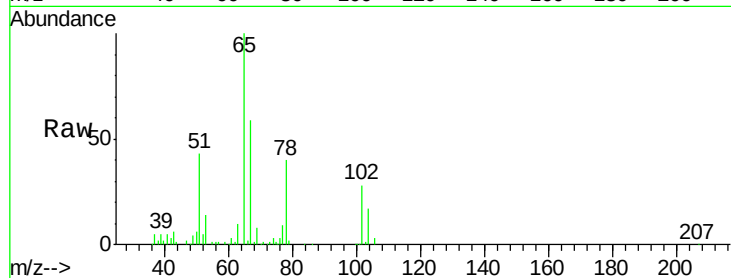
#40
Benzene
Concen: 2.871 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Instrument :
MSVOA_W
ClientSampled :
30440-3077

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.1	28.7

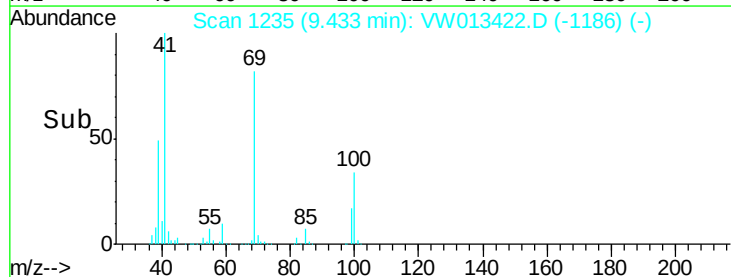
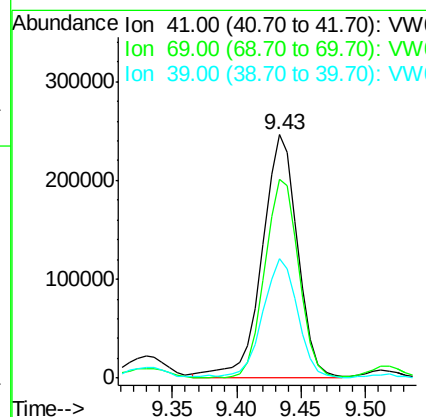
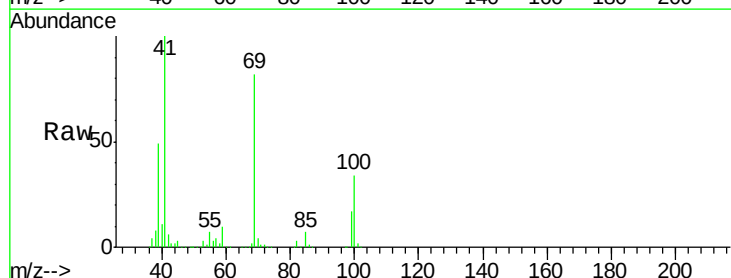
Manual Integrations
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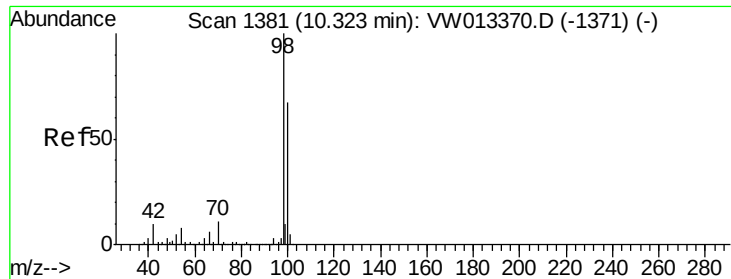
MMDadoda
10/4/2019 12:06:53 PM



#48
Methyl methacrylate
Concen: 347.511 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Tgt Ion	Ratio	Lower	Upper
41	100		
69	78.9	69.7	104.5
39	48.7	41.1	61.7





#50

Toluene-d8

Concen: 46.132 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

Tot Ion: 98 Resp: 363883

Ion Ratio Lower Upper

98 100

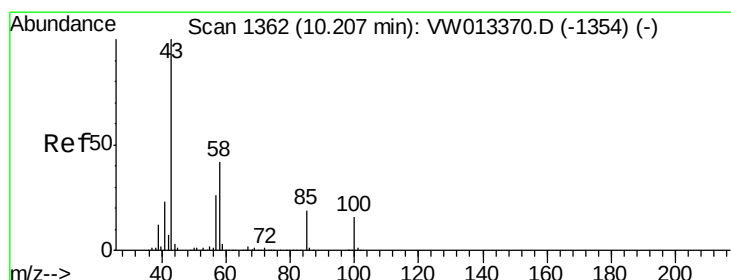
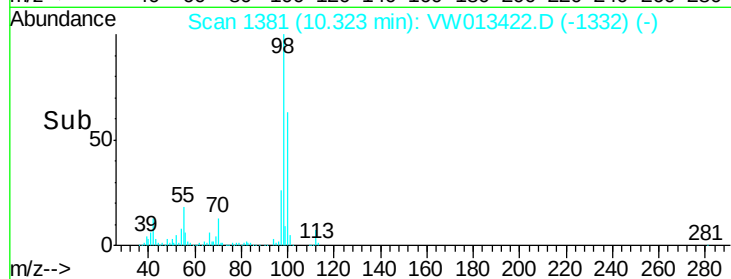
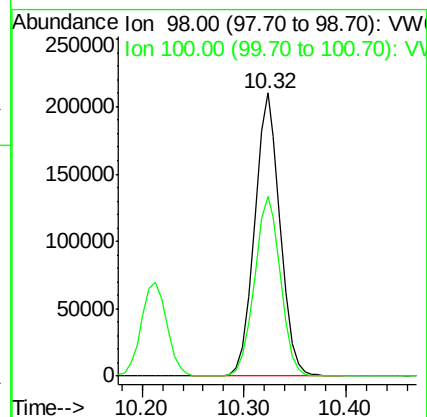
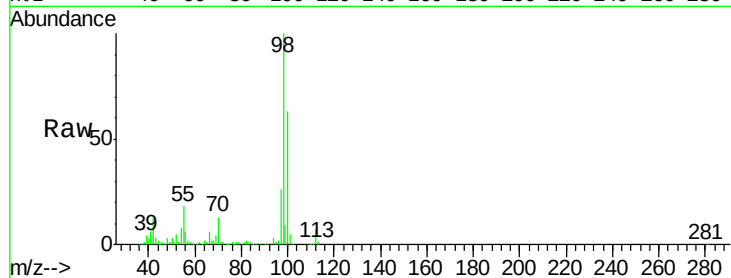
100 64.7 52.9 79.3

Manual Integrations

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#51

4-Methyl-2-Pentanone

Concen: 486.989 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW013422.D

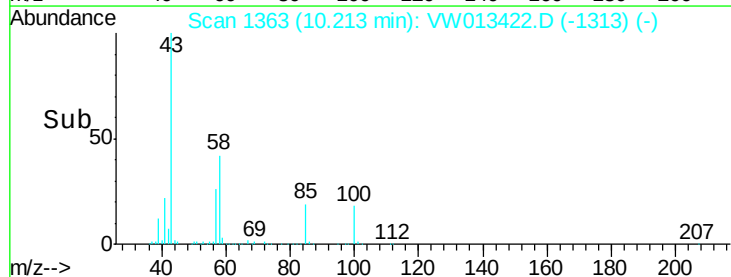
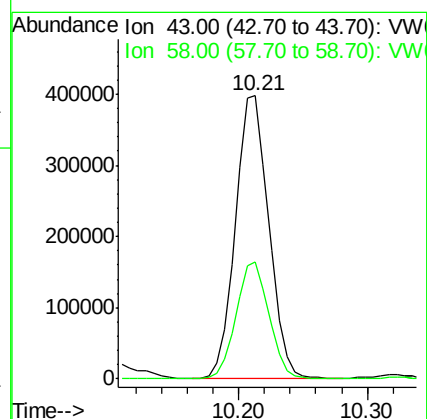
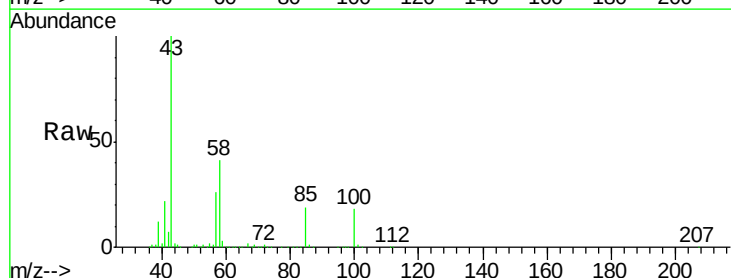
Acq: 03 Oct 2019 16:36

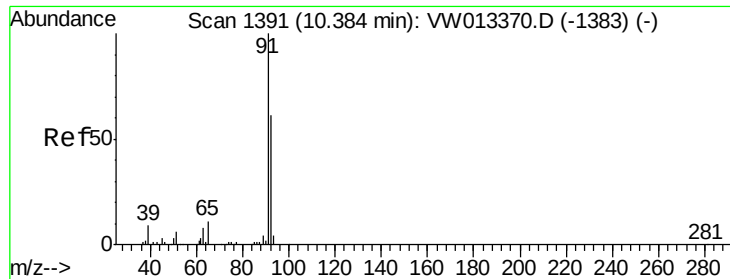
Tgt Ion: 43 Resp: 715073

Ion Ratio Lower Upper

43 100

58 40.8 31.7 47.5





#52

Toluene

Concen: 1689.591 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

Tot Ion: 92 Resp: 10379483

Ion Ratio Lower Upper

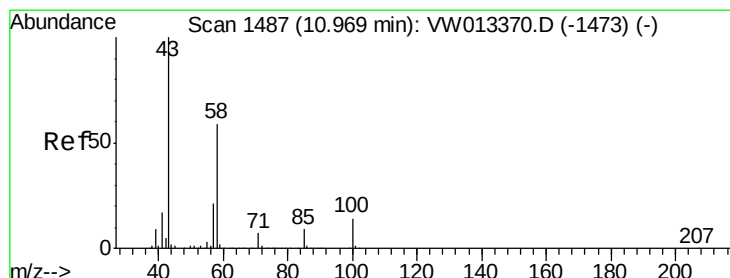
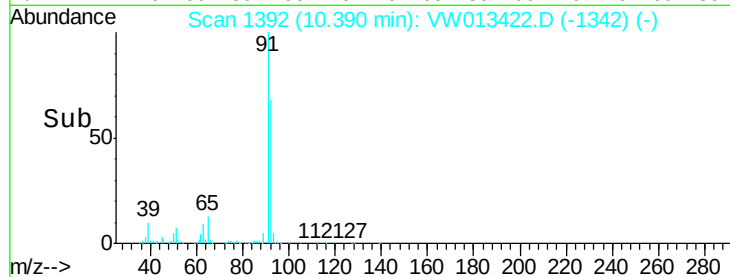
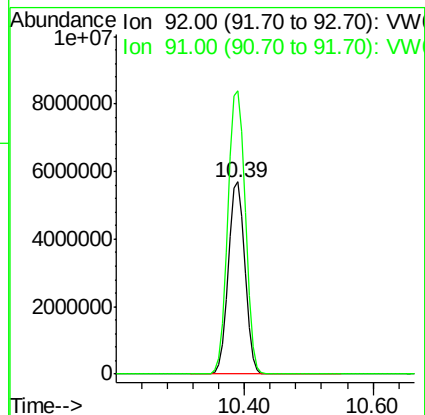
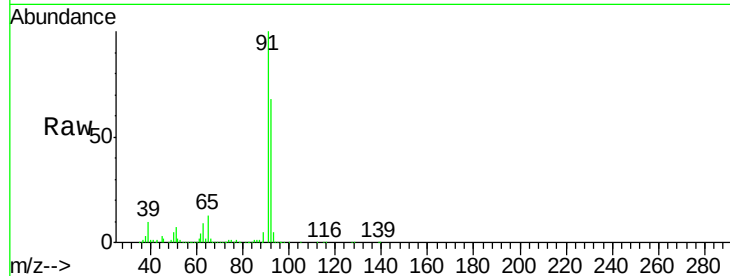
92 100

91 156.0 135.7 203.5

Manual Integrations
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#59

2-Hexanone

Concen: 31.742 ug/l m

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013422.D

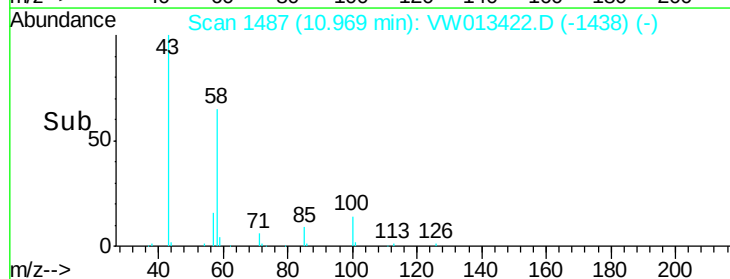
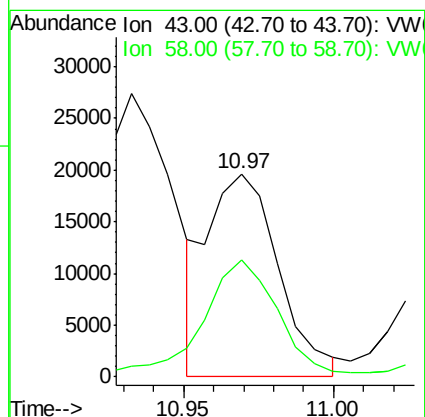
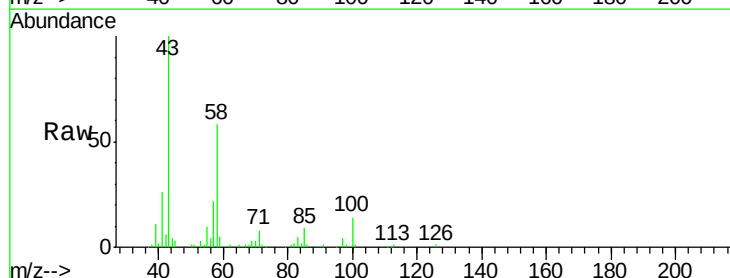
Acq: 03 Oct 2019 16:36

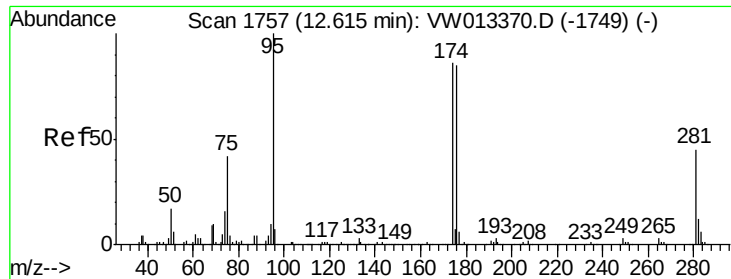
Tgt Ion: 43 Resp: 32306

Ion Ratio Lower Upper

43 100

58 61.0 28.1 84.2





#62

4-Bromofluorobenzene

Concen: 29.932 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

Instrument :

MSVOA_W

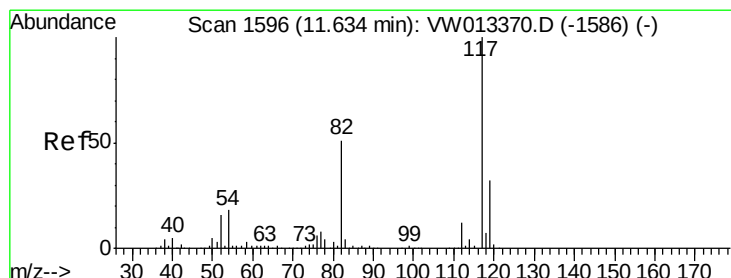
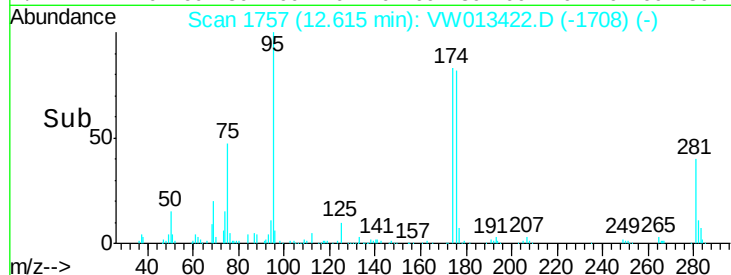
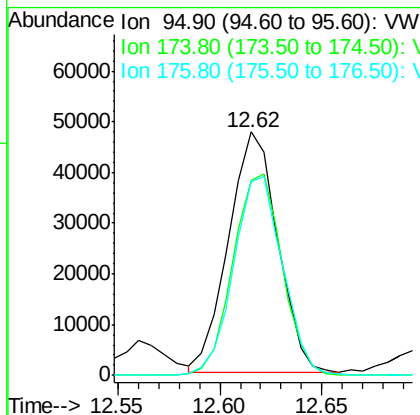
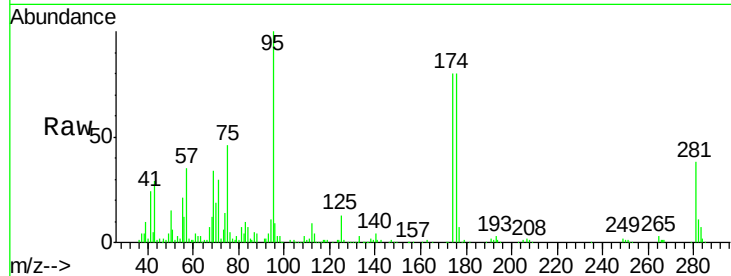
ClientSampleId :

30440-3077

Tot Ion:	95	Resp:	78843
Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	178.4
176	82.8	0.0	172.2

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

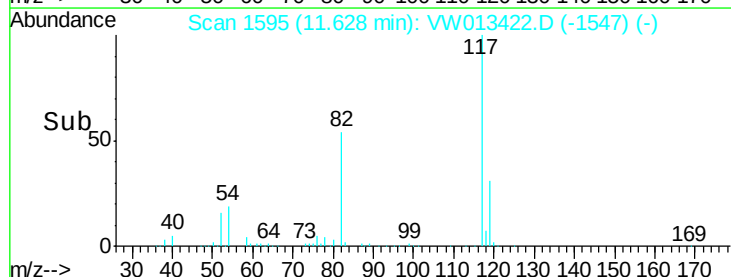
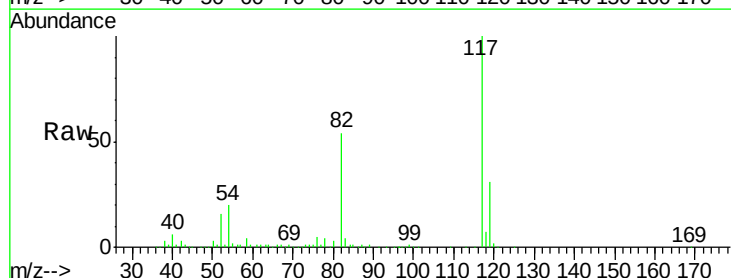
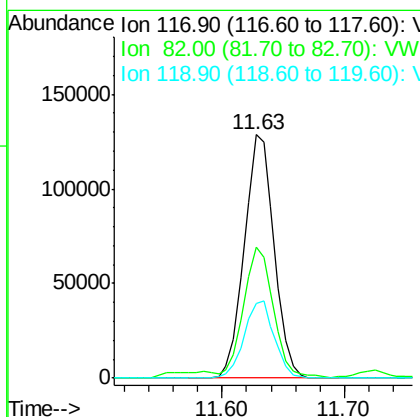
RT: 11.63 min Scan# 1595

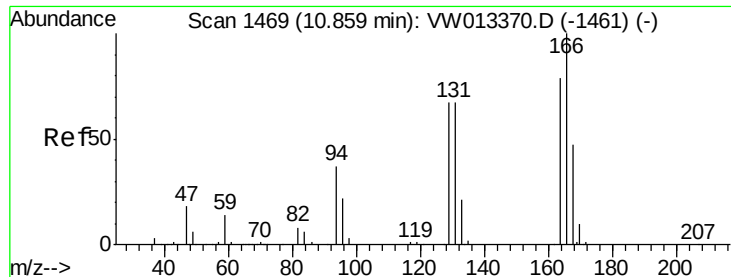
Delta R.T. -0.01 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

Tgt Ion:	117	Resp:	217628
Ion	Ratio	Lower	Upper
117	100		
82	53.5	45.9	68.9
119	30.8	26.2	39.2





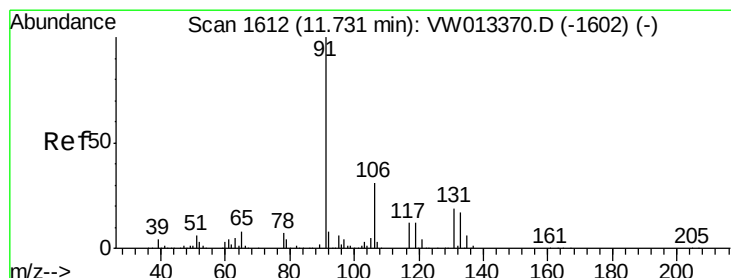
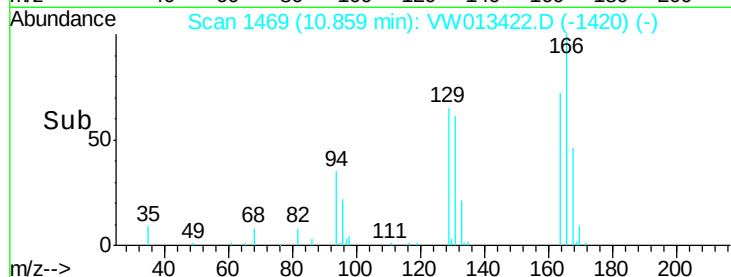
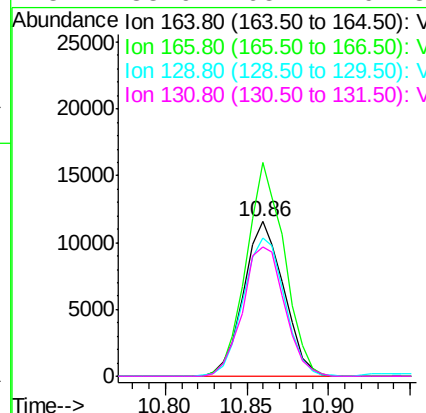
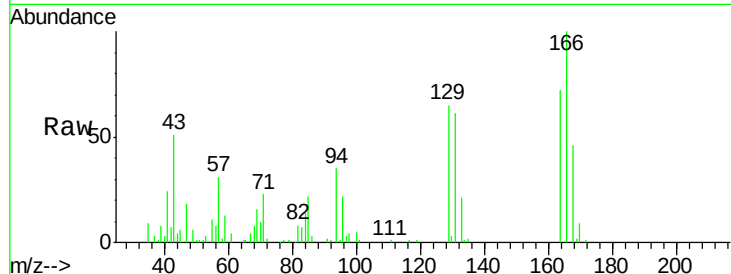
#64
Tetrachloroethene
Concen: 11.999 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Instrument :
MSVOA_W
ClientSampleId :
30440-3077

Tot Ion	Ratio	Lower	Upper
164	100		
166	138.0	101.2	151.8
129	89.4	68.8	103.2
131	83.9	65.2	97.8

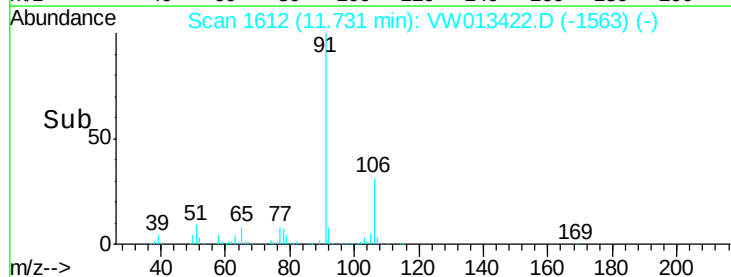
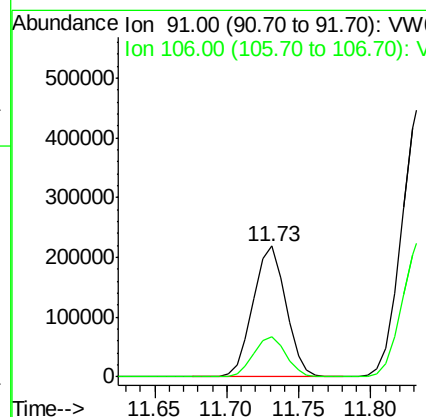
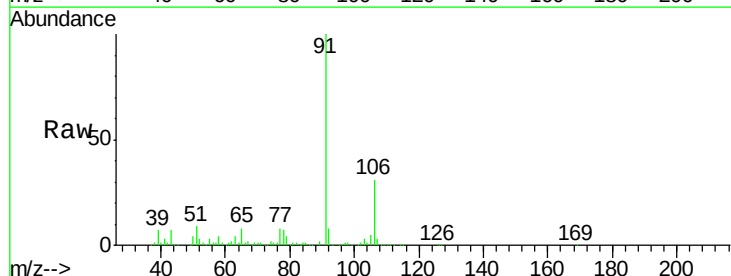
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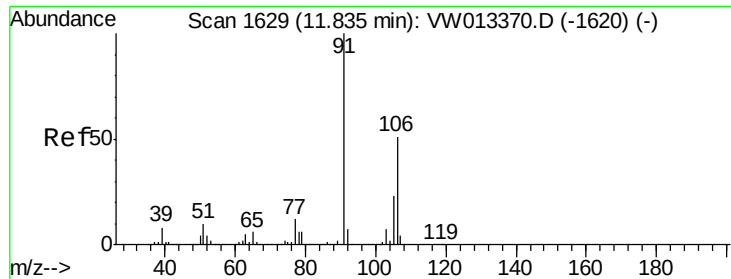
MMDadoda
10/4/2019 12:06:53 PM



#67
Ethyl Benzene
Concen: 43.439 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.9	37.3





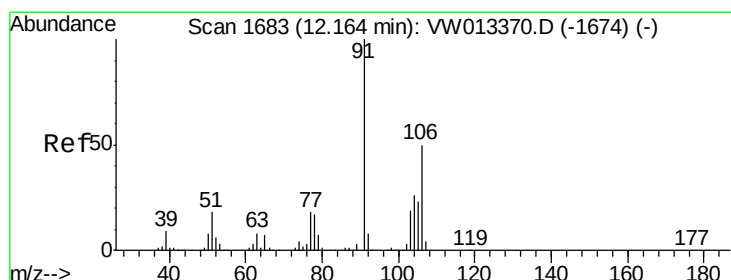
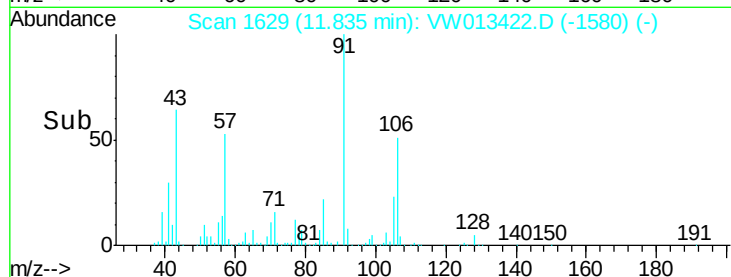
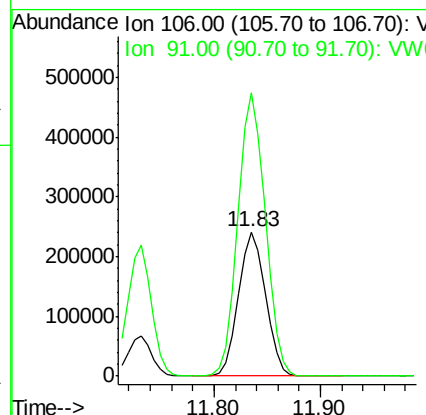
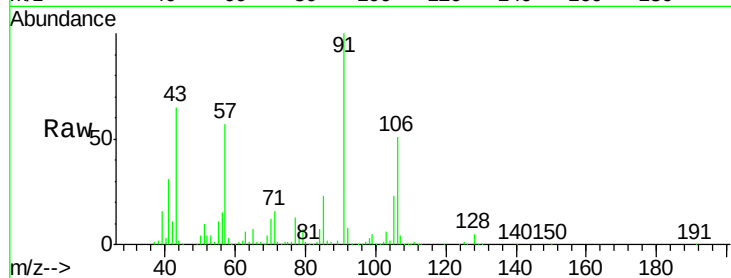
#68
m/p-Xylenes
Concen: 140.627 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Instrument :
MSVOA_W
ClientSampleId :
30440-3077

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		433745		
91	198.0	157.9	236.9		

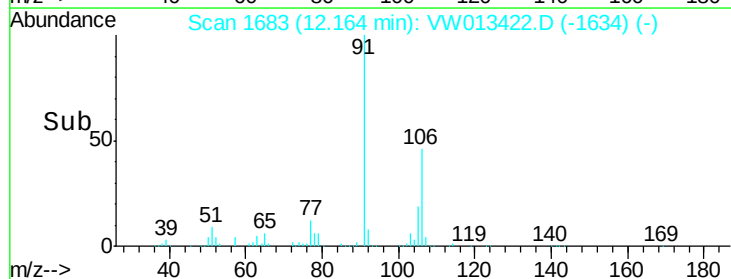
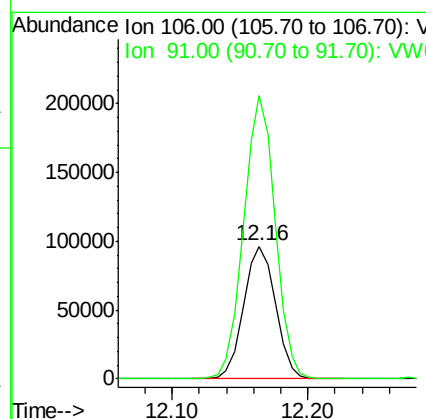
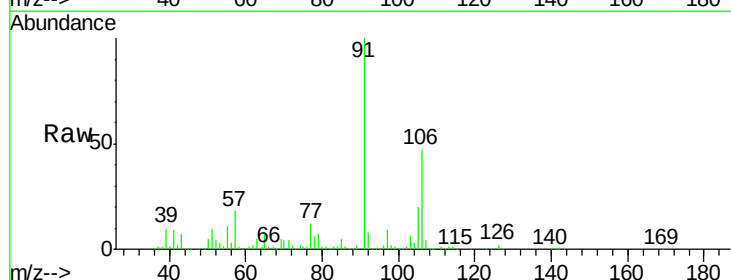
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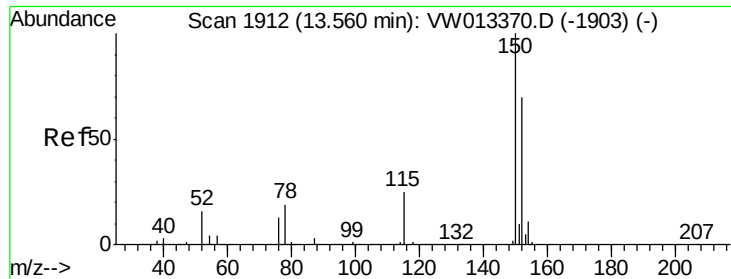
MMDadoda
10/4/2019 12:06:53 PM



#69
o-Xylene
Concen: 55.256 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		157577		
91	211.3	106.5	319.5		





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

Tot Ion:152 Resp: 52103

Ion Ratio Lower Upper

152 100

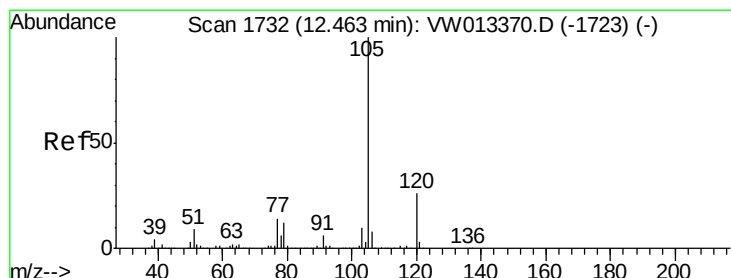
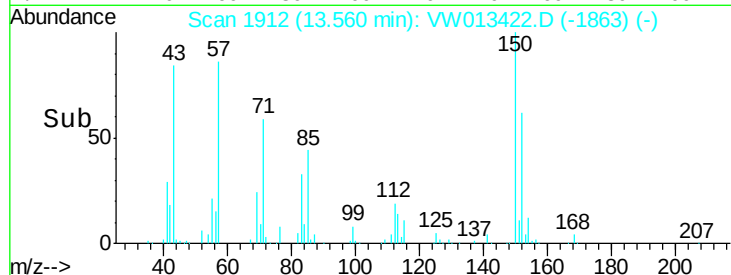
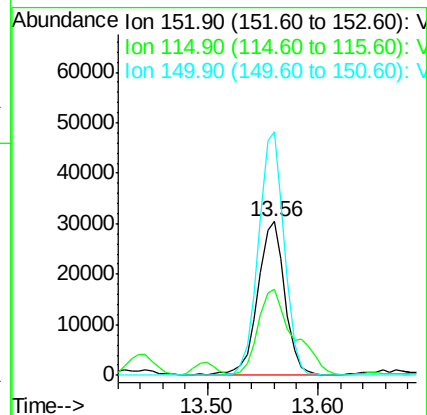
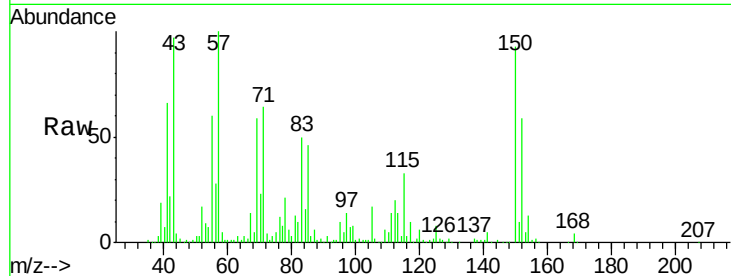
115 70.9 27.3 81.9

150 149.4 0.0 349.0

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#73

Isopropylbenzene

Concen: 19.275 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013422.D

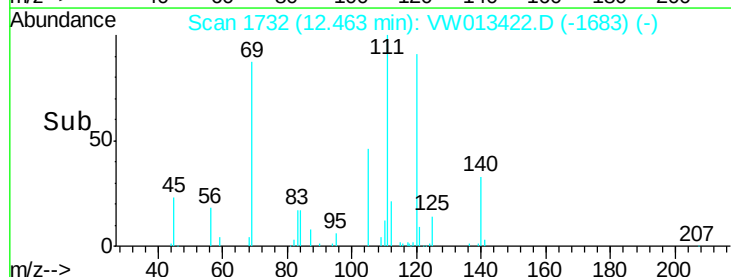
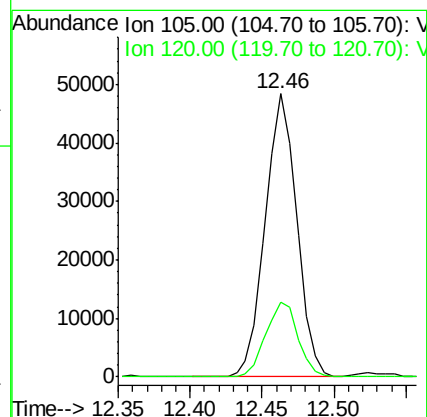
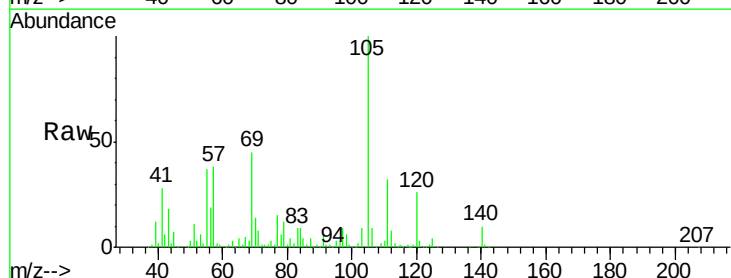
Acq: 03 Oct 2019 16:36

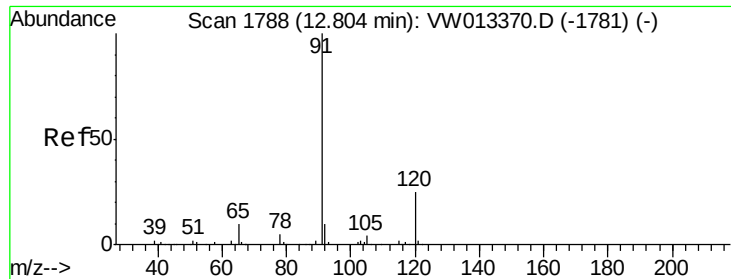
Tgt Ion:105 Resp: 73460

Ion Ratio Lower Upper

105 100

120 27.0 13.4 40.1





#78

n-propylbenzene

Concen: 66.170 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW013422.D

Acq: 03 Oct 2019 16:36

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

Tot Ion: 91 Resp: 290090

Ion Ratio Lower Upper

91 100

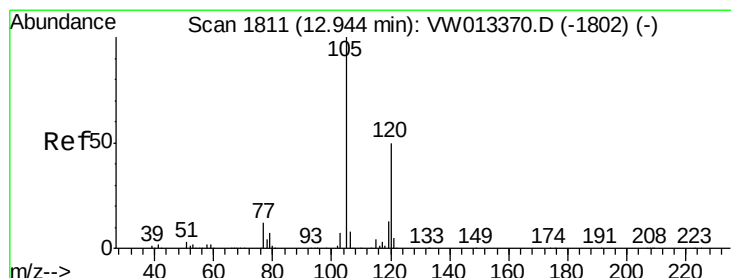
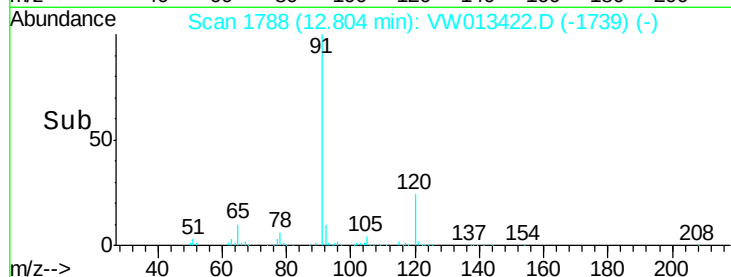
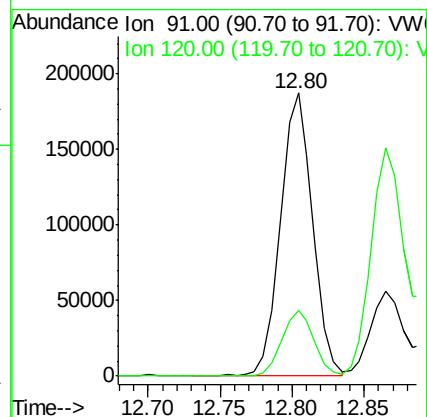
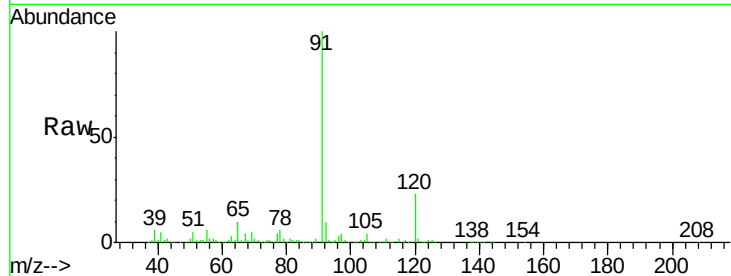
120 23.3 11.7 35.1

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#80

1,3,5-Trimethylbenzene

Concen: 91.240 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW013422.D

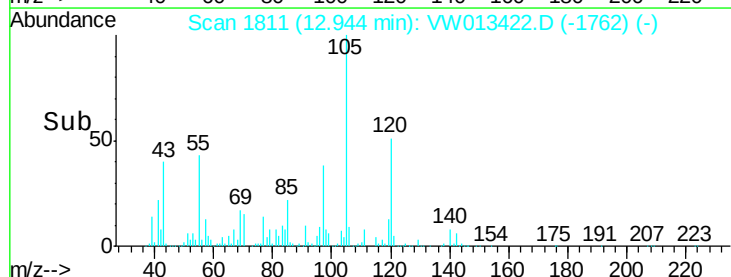
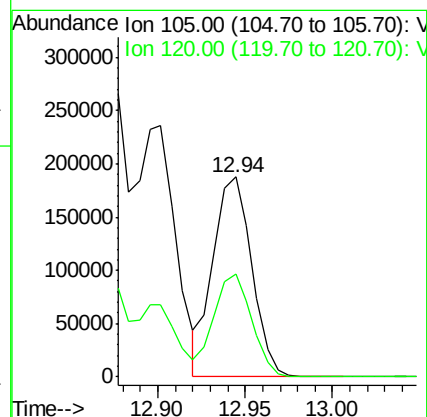
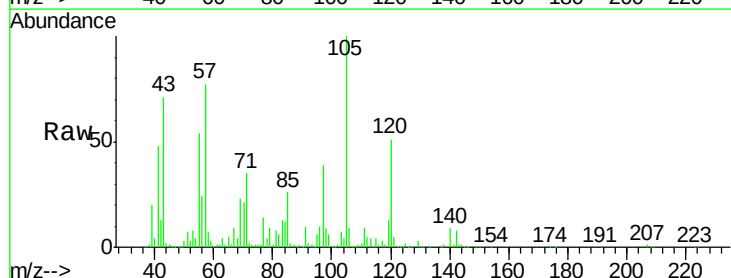
Acq: 03 Oct 2019 16:36

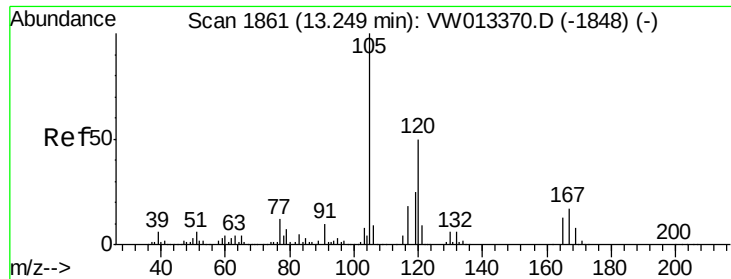
Tgt Ion: 105 Resp: 288861

Ion Ratio Lower Upper

105 100

120 50.5 24.9 74.8





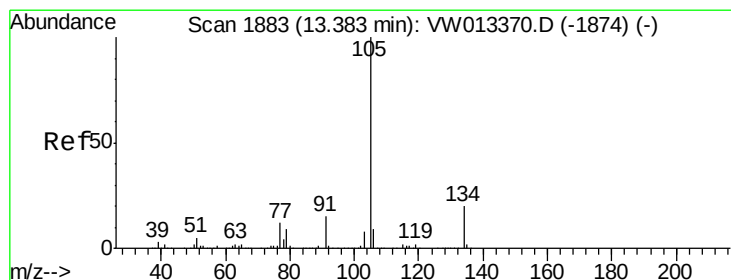
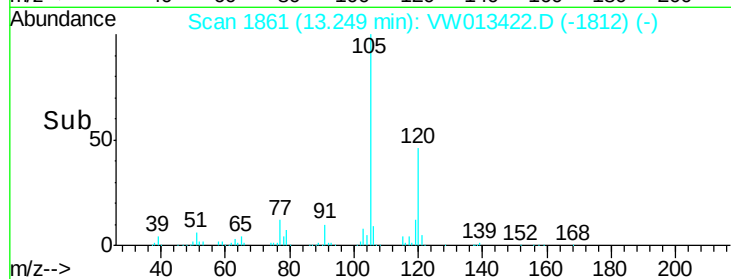
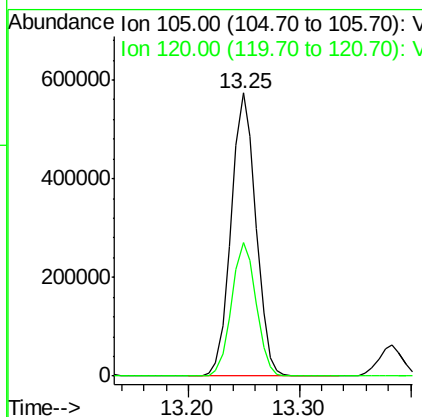
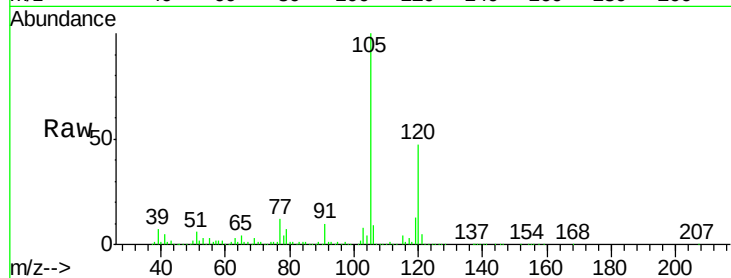
#84
 1,2,4-Trimethylbenzene
 Concen: 279.855 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 16:36

Instrument :
 MSVOA_W
 ClientSampleId :
 30440-3077

Tot Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.4	70.3

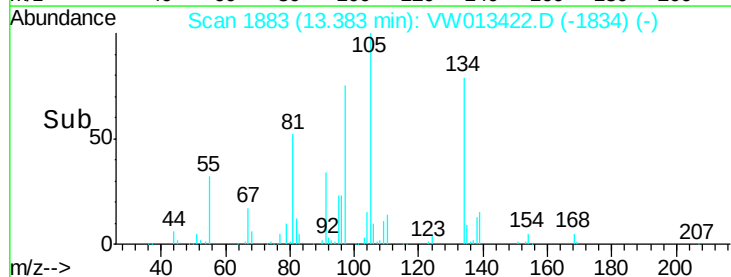
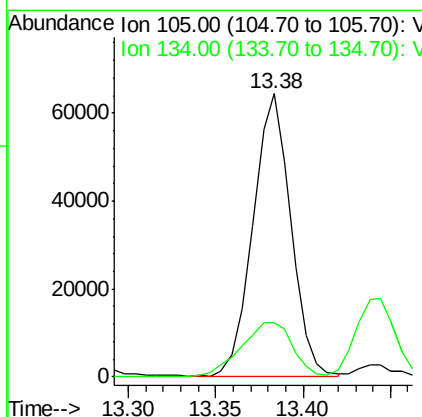
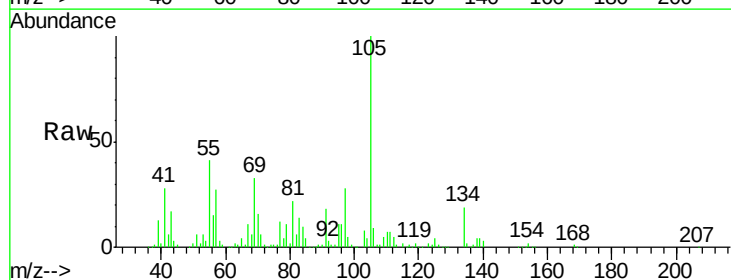
Manual Integrations
 APPROVED

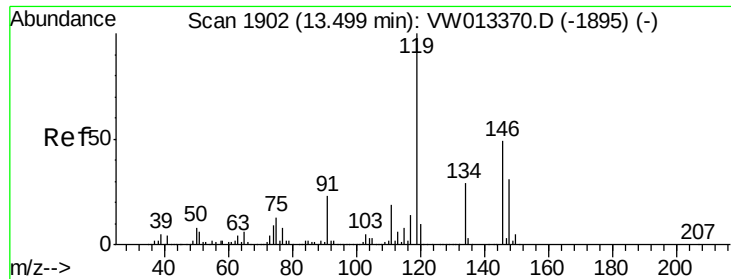
MMDadoda
 10/4/2019 12:06:53 PM



#85
 sec-Butylbenzene
 Concen: 25.155 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 16:36

Tgt Ion	Ratio	Lower	Upper
105	100		
134	26.5	10.3	30.8





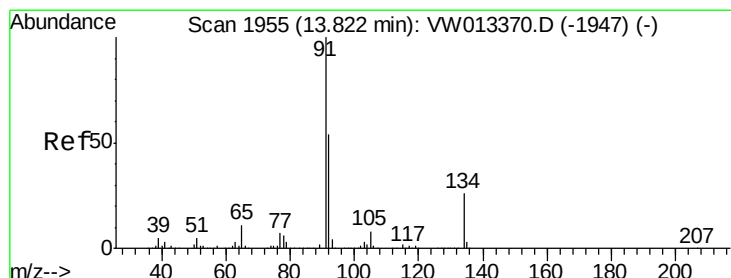
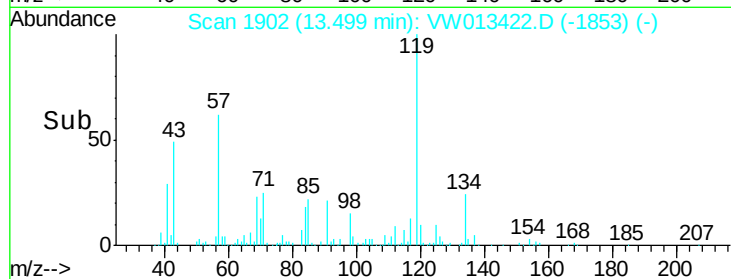
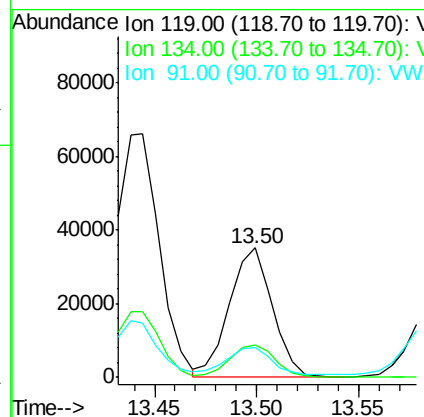
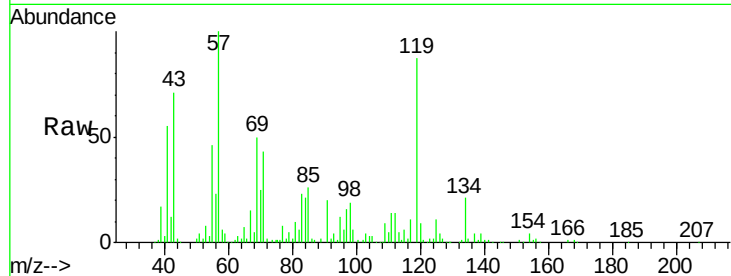
#86
 p-Isopropyltoluene
 Concen: 14.439 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 16:36

Instrument :
 MSVOA_W
 ClientSampled :
 30440-3077

Tot Ion	Ratio	Resp	Lower	Upper
119	100	51017		
134	26.4	13.3	39.8	
91	21.6	10.8	32.4	

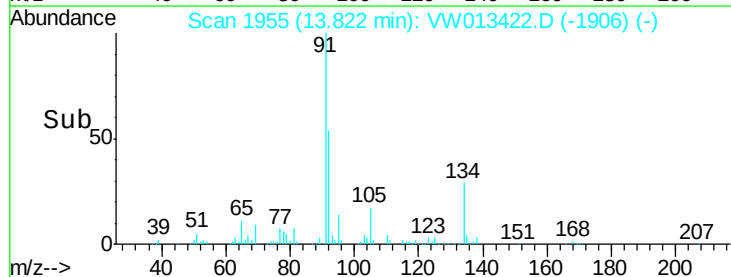
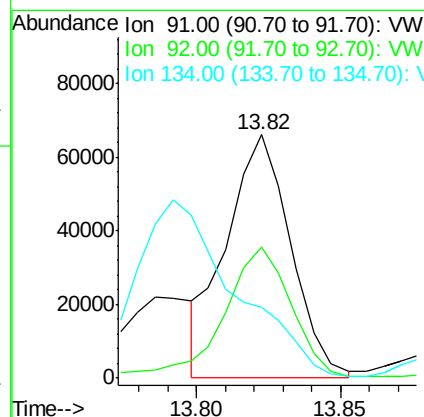
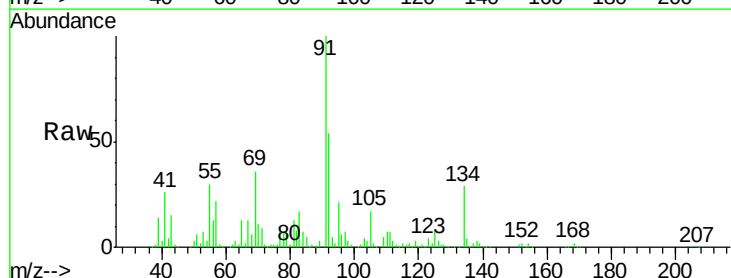
Manual Integrations
 APPROVED

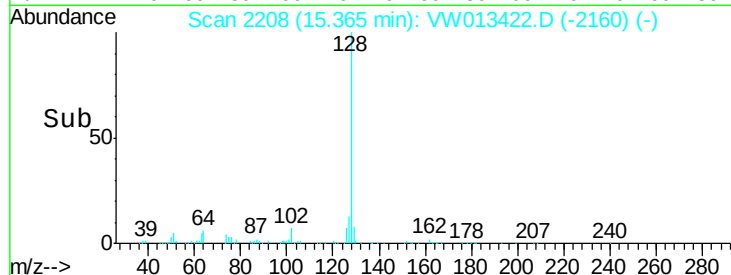
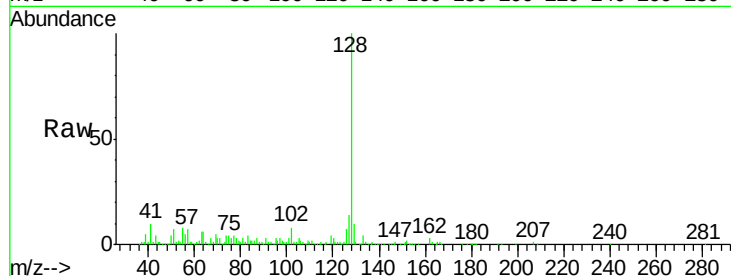
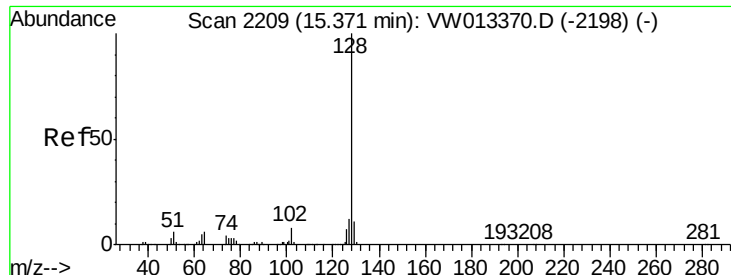
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#89
 n-Butylbenzene
 Concen: 32.254 ug/l m
 RT: 13.82 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 16:36

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	102749		
92	55.1	27.6	82.8	
134	0.0	13.7	41.1#	





#95
Naphthalene
Concen: 65.665 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW013422.D
Acq: 03 Oct 2019 16:36

Instrument :
MSVOA_W
ClientSampleId :
30440-3077

Tot Ion	Ratio	Resp	Lower	Upper
128	100	120992		
127	14.6		10.6	15.8
129	11.1		8.7	13.1

Manual Integrations
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10/4/2019 12:06:53 PM

