

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100319\
 Data File : VW013423.D
 Acq On : 03 Oct 2019 17:02
 Operator : SY/VA
 Sample : K5176-05RE
 Misc : 5.07G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 30464-67RE

Manual Integrations
 APPROVED

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 10/4/2019 12:06:48 PM

Quant Time: Oct 04 09:55:42 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	235532	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	356178	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	229188	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	48623	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	102146	58.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.16%	
35) Dibromofluoromethane	7.88	113	101594	54.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.72%	
50) Toluene-d8	10.32	98	348341	44.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.82%	
62) 4-Bromofluorobenzene	12.62	95	82149	31.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	63.44%	
Target Compounds						
					Qvalue	
7) Trichlorofluoromethane	3.24	101	3018	3.261	ug/l	97
11) Tert butyl alcohol	5.23	59	28668	193.738	ug/l	95
16) Acetone	4.13	43	147564	273.743	ug/l	100
17) Carbon Disulfide	4.38	76	24943	4.124	ug/l #	95
20) Methylene Chloride	4.91	84	53985	23.023	ug/l	99
25) 2-Butanone	7.17	43	39487	57.247	ug/l	98
30) Chloroform	7.67	83	353004	95.421	ug/l	99
31) Cyclohexane	7.92	56	134678	33.473	ug/l #	45
39) Methylcyclohexane	9.33	83	31489	7.227	ug/l	92
40) Benzene	8.32	78	10258	1.095	ug/l	93
51) 4-Methyl-2-Pentanone	10.21	43	39980	27.691	ug/l	100
52) Toluene	10.38	92	568441	94.108	ug/l	99
59) 2-Hexanone	10.97	43	5767m	5.763	ug/l	
67) Ethyl Benzene	11.73	91	57990	6.891	ug/l	97
68) m/p-Xylenes	11.84	106	111136	34.215	ug/l	97
69) o-Xylene	12.16	106	57282	19.073	ug/l	98
70) Styrene	12.18	104	27630m	5.382	ug/l	
73) Isopropylbenzene	12.47	105	36317	10.211	ug/l	78
78) n-propylbenzene	12.80	91	45650	11.158	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	70370	23.818	ug/l	96
84) 1,2,4-Trimethylbenzene	13.25	105	231910	78.959	ug/l	99
85) sec-Butylbenzene	13.38	105	53391	15.006	ug/l	92
86) p-Isopropyltoluene	13.50	119	264654m	80.261	ug/l	
89) n-Butylbenzene	13.82	91	35939m	12.089	ug/l	
95) Naphthalene	15.36	128	29323	17.053	ug/l #	95

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

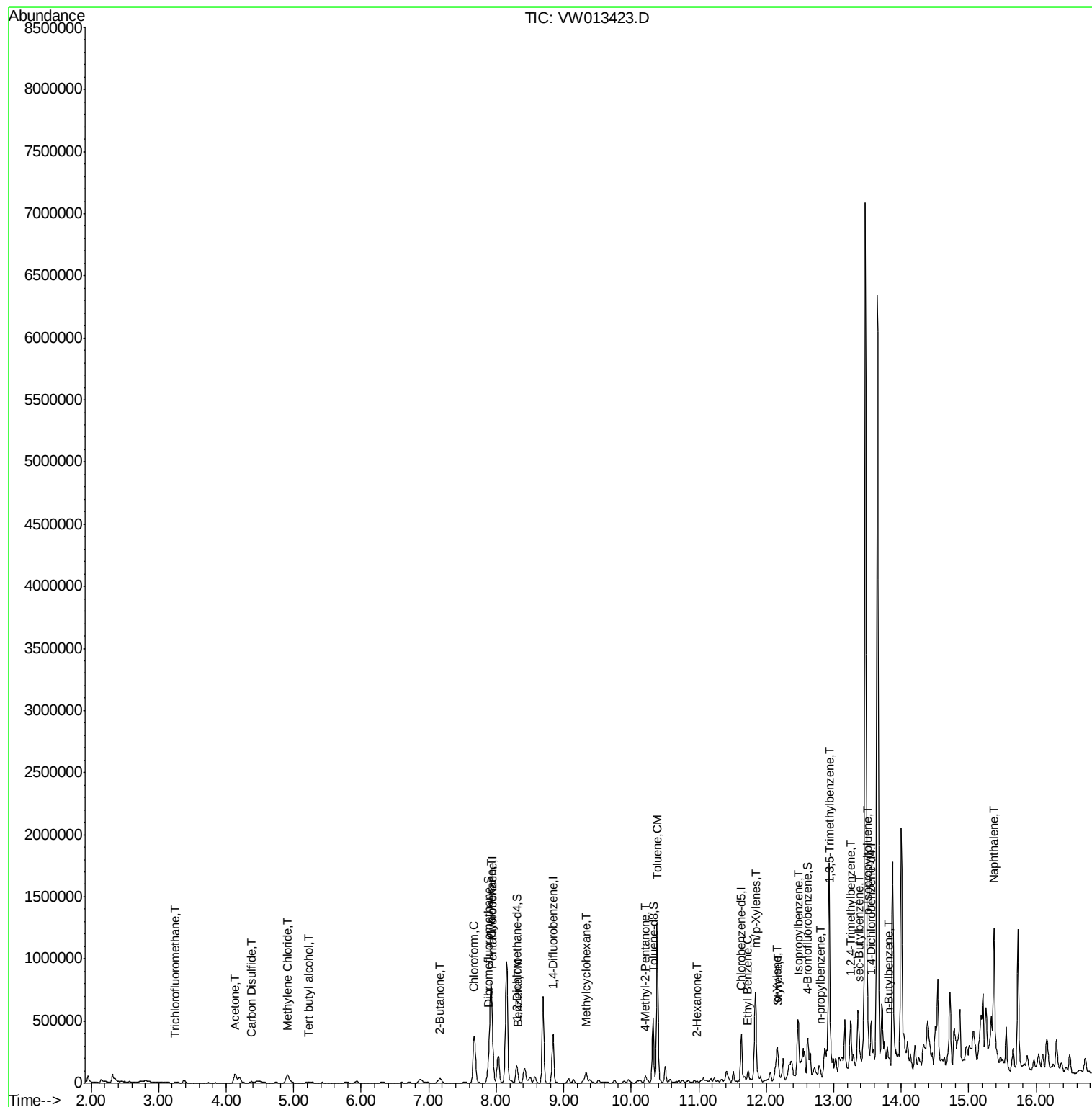
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100319\
Data File : VW013423.D
Acq On : 03 Oct 2019 17:02
Operator : SY/VA
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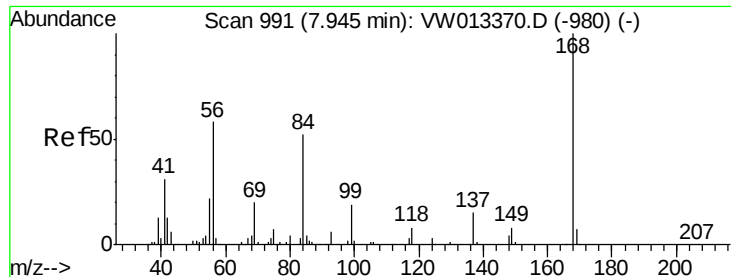
Instrument :
MSVOA_W
ClientSampleId :
30464-67RE

Manual Integrations
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10/4/2019 12:06:48 PM

Quant Time: Oct 04 09:55:42 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: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

ClientSampleId :

30464-67RE

Tot Ion:168 Resp: 235532

Ion Ratio Lower Upper

168 100

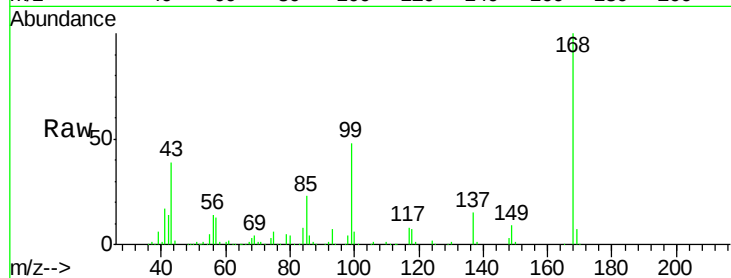
99 47.9 40.2 60.4

Manual Integrations

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10/4/2019 12:06:48 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

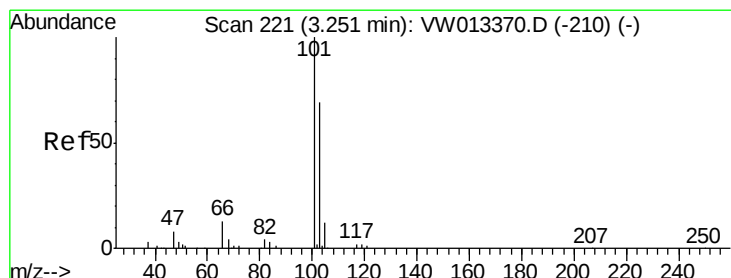
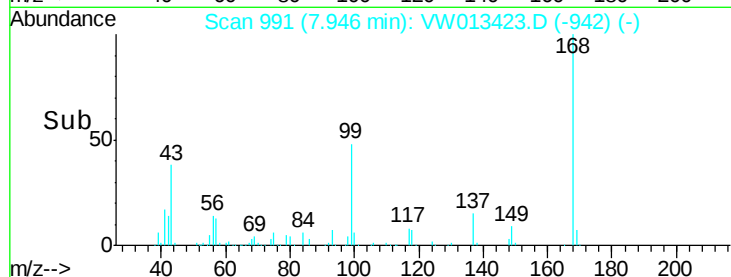
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#7

Trichlorofluoromethane

Concen: 3.261 ug/l

RT: 3.24 min Scan# 219

Delta R.T. -0.01 min

Lab File: VW013423.D

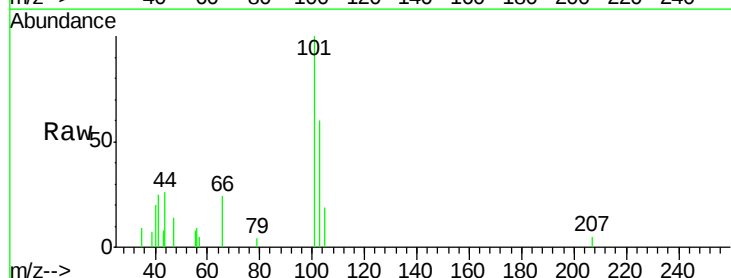
Acq: 03 Oct 2019 17:02

Tgt Ion:101 Resp: 3018

Ion Ratio Lower Upper

101 100

103 60.0 49.7 74.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

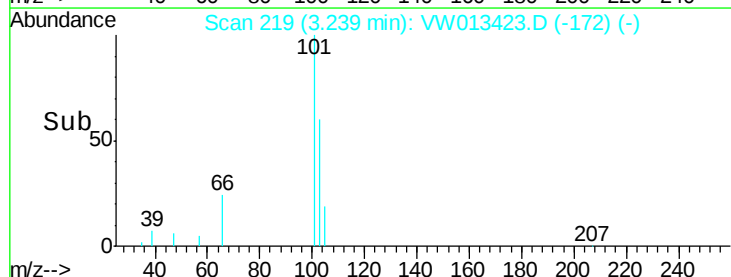
3.24

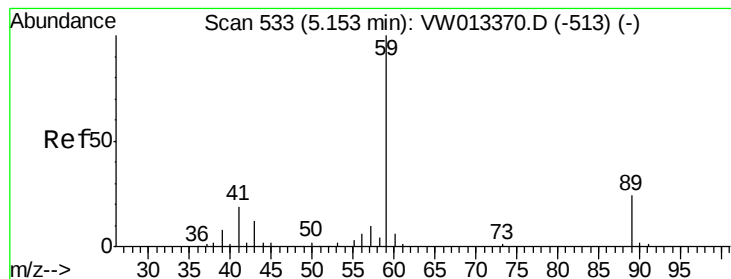
1000

500

0

Time--> 3.15 3.20 3.25 3.30





#11

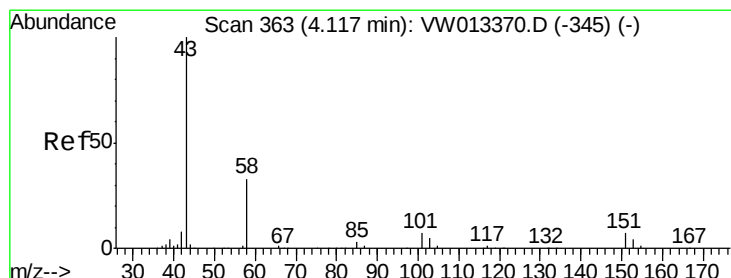
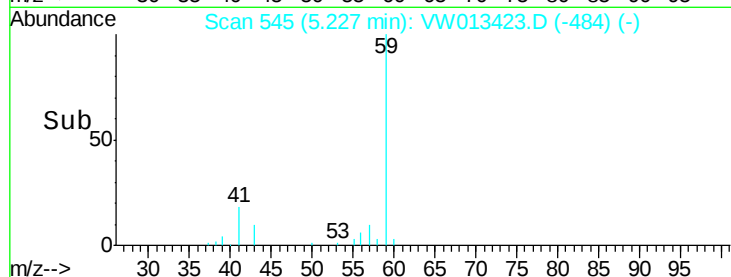
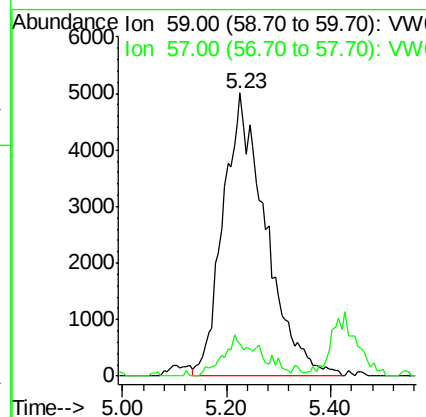
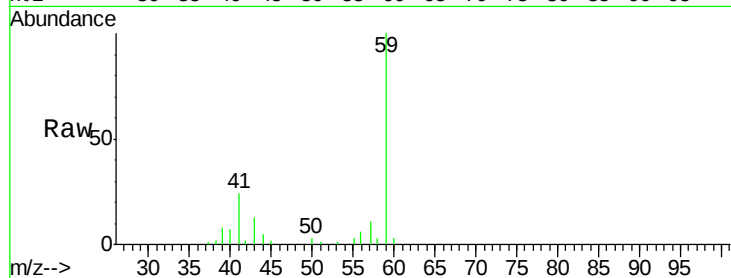
Tert butyl alcohol
 Concen: 193.738 ug/l
 RT: 5.23 min Scan# 545
 Delta R.T. 0.07 min
 Lab File: VW013423.D
 Acq: 03 Oct 2019 17:02

Instrument :
 MSVOA_W
 ClientSampleId :
 30464-67RE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	100		28668		
57	8.2			8.2	12.2

Manual Integrations
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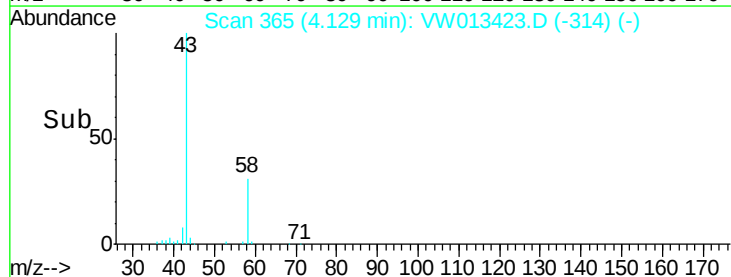
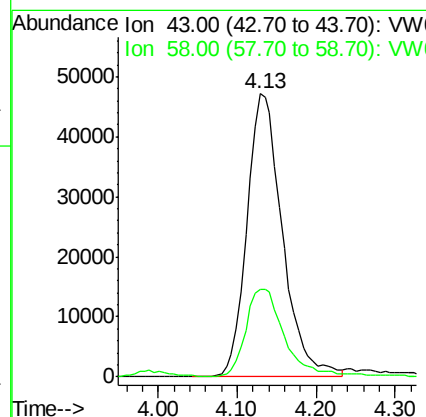
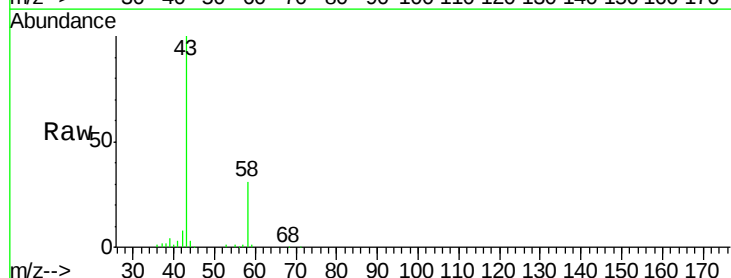
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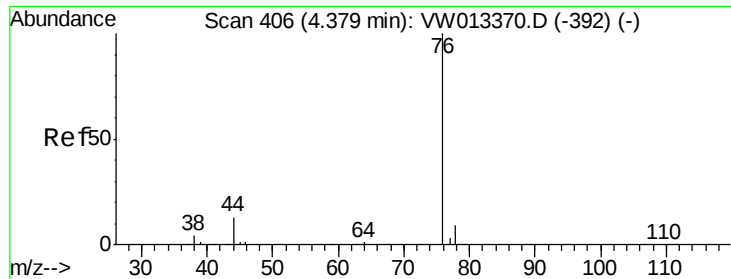


#16

Acetone
 Concen: 273.743 ug/l
 RT: 4.13 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VW013423.D
 Acq: 03 Oct 2019 17:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
43	100		147564		
58	30.3			24.1	36.1





#17

Carbon Disulfide

Concen: 4.124 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

ClientSampleId :

30464-67RE

Tot Ion: 76 Resp: 24943

Ion Ratio Lower Upper

76 100

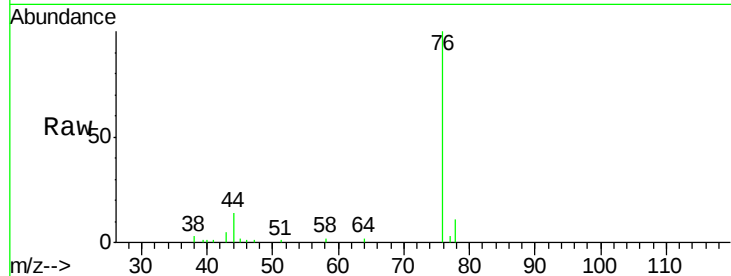
78 10.6 7.0 10.4#

Manual Integrations

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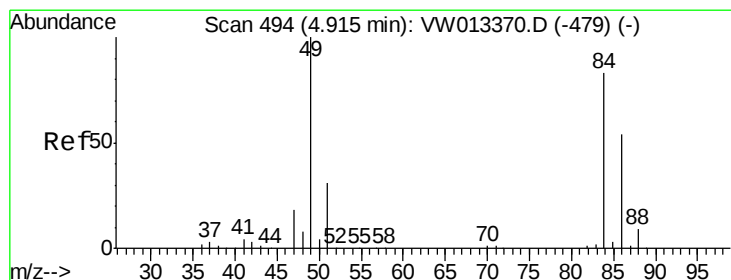
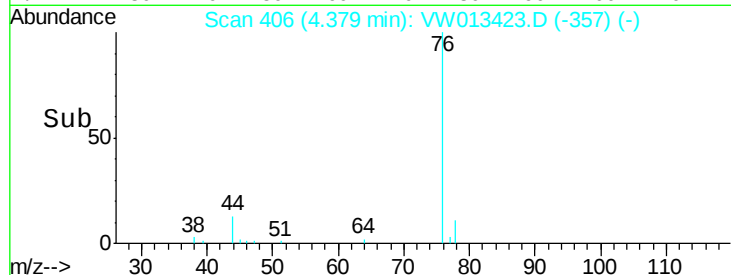
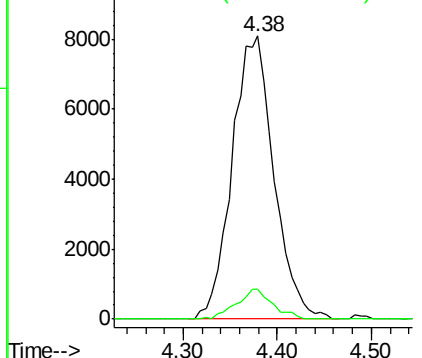
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Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 23.023 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Tgt Ion: 84 Resp: 53985

Ion Ratio Lower Upper

84 100

49 120.0 97.6 146.4

51 36.9 30.2 45.2

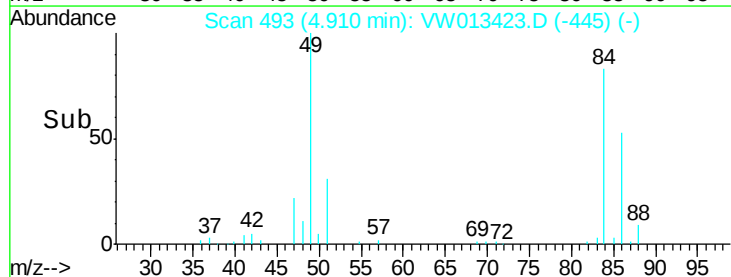
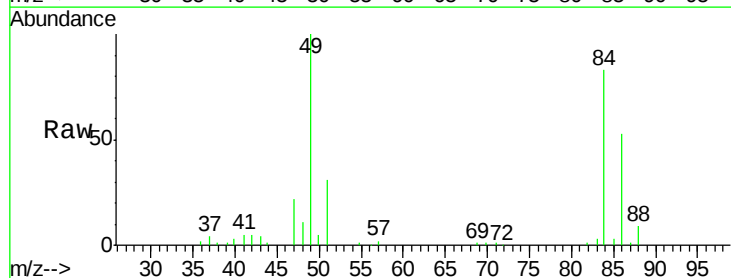
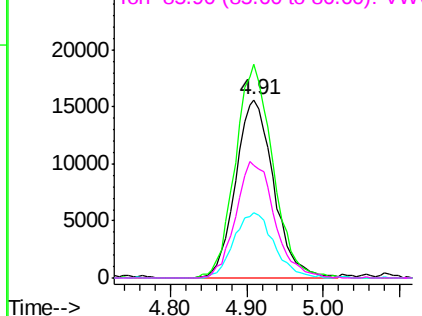
86 63.5 50.6 76.0

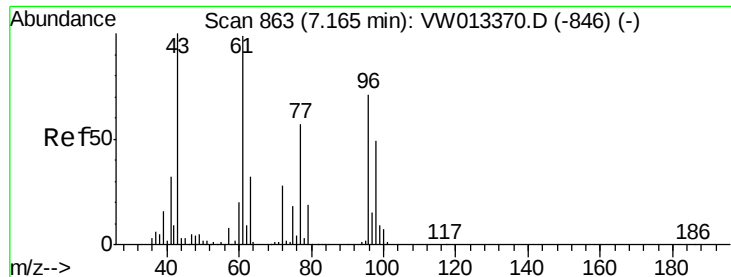
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#25

2-Butanone

Concen: 57.247 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

ClientSampleId :

30464-67RE

Tot Ion: 43 Resp: 39487

Ion Ratio Lower Upper

43 100

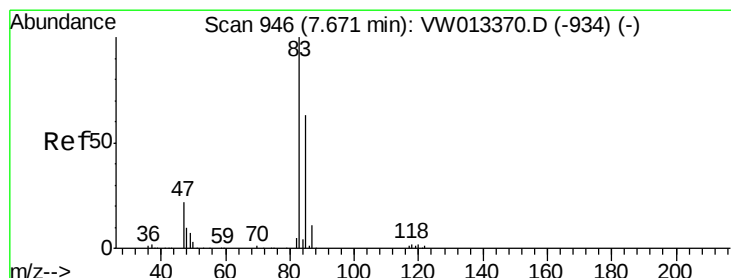
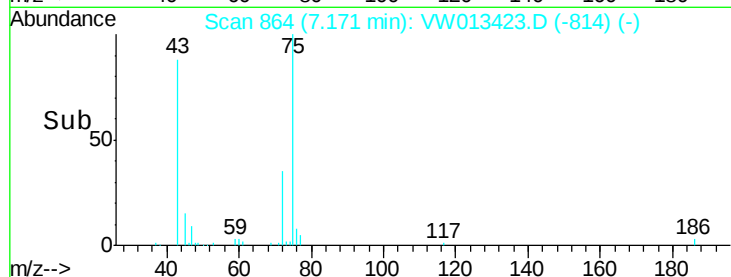
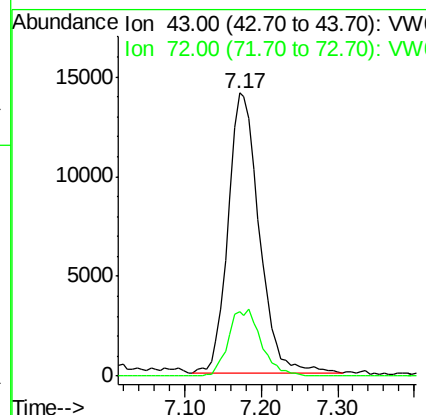
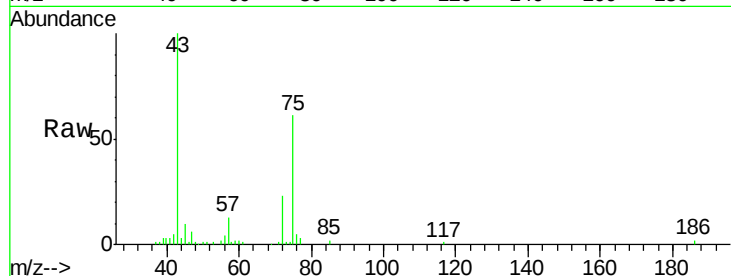
72 23.3 19.4 29.0

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#30

Chloroform

Concen: 95.421 ug/l

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW013423.D

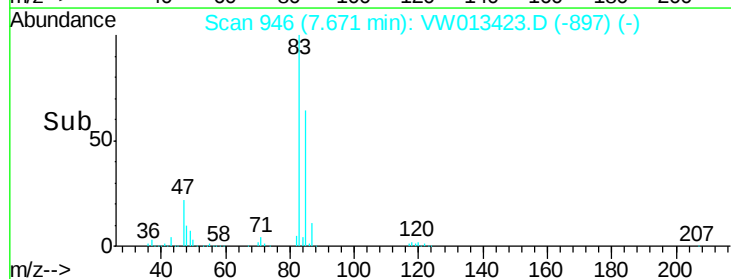
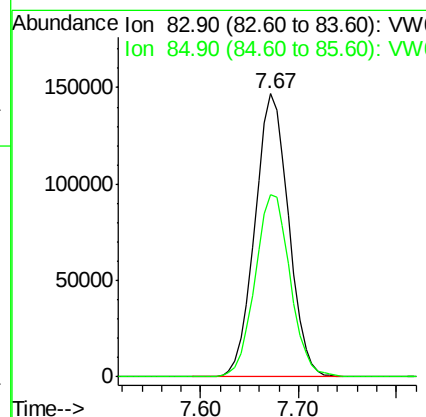
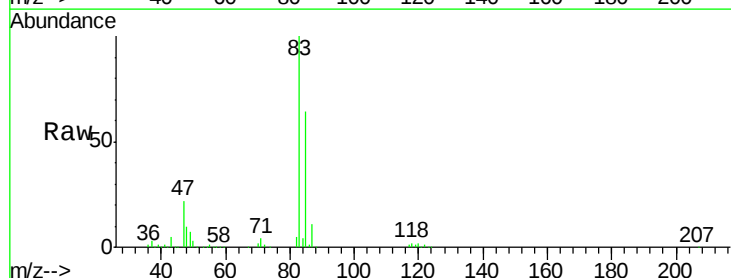
Acq: 03 Oct 2019 17:02

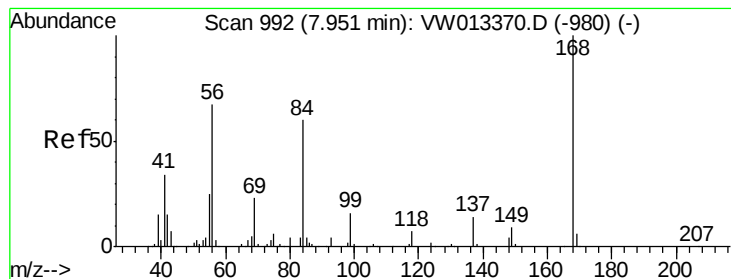
Tgt Ion: 83 Resp: 353004

Ion Ratio Lower Upper

83 100

85 64.5 52.3 78.5





#31

Cvclohexane

Concen: 33.473 ug/l

RT: 7.92 min Scan# 987

Delta R.T. -0.03 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

ClientSampleId :

30464-67RE

Tot Ion: 56 Resp: 134678
Ion Ratio Lower Upper

56 100

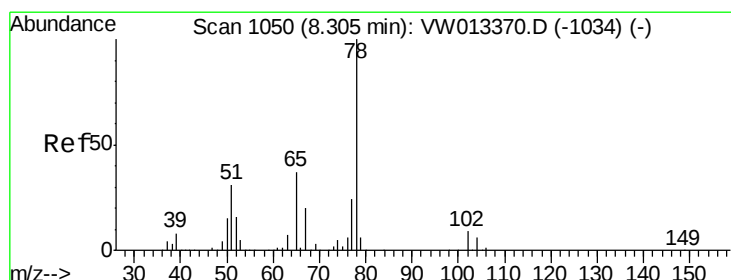
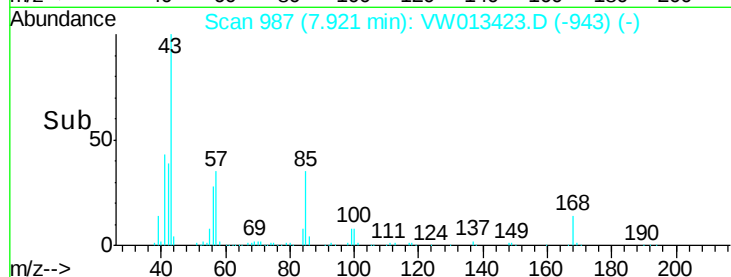
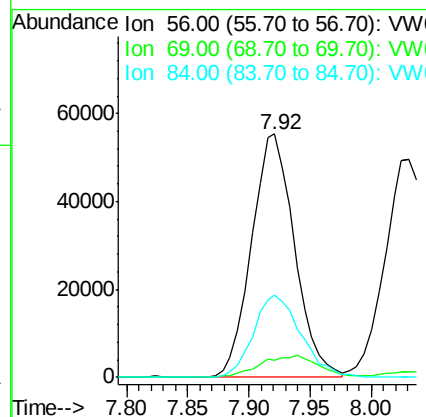
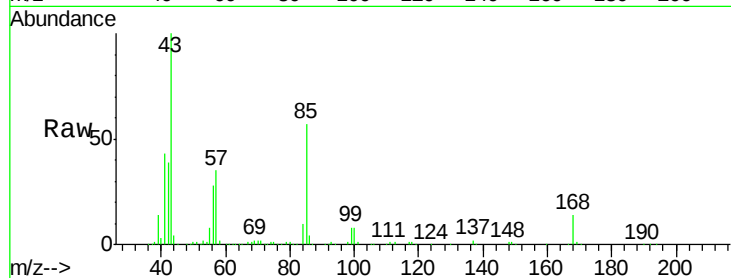
69 7.1 27.2 40.8#

84 34.1 70.8 106.2#

Manual Integrations
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#33

1,2-Dichloroethane-d4

Concen: 58.082 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

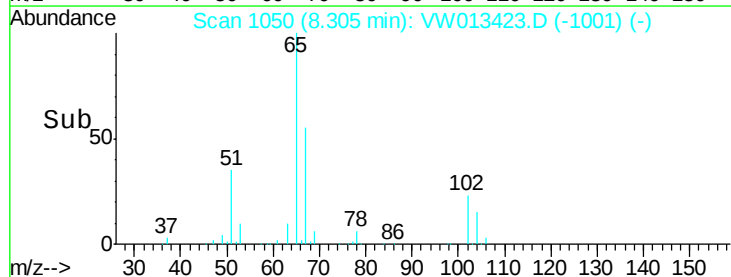
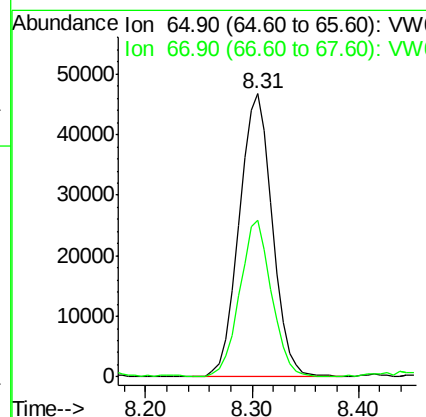
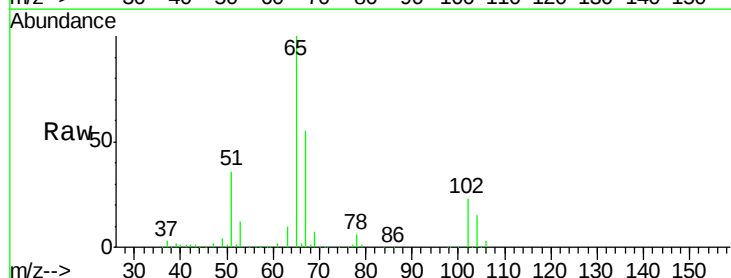
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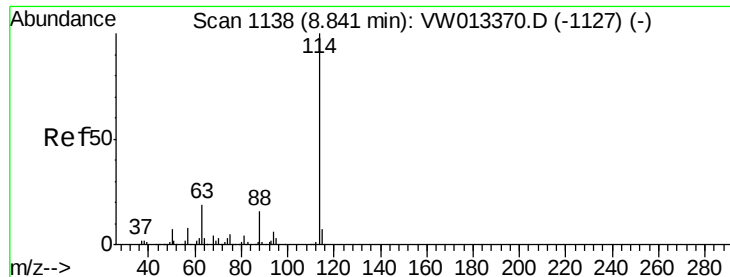
Acq: 03 Oct 2019 17:02

Tgt Ion: 65 Resp: 102146
Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.2





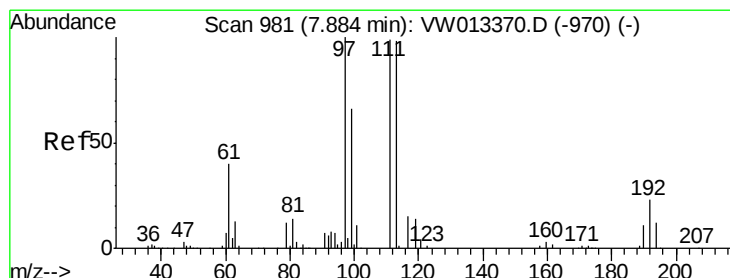
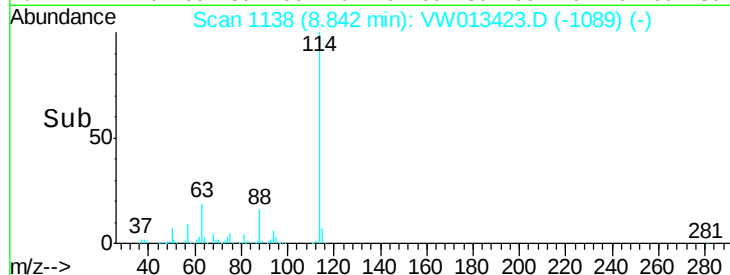
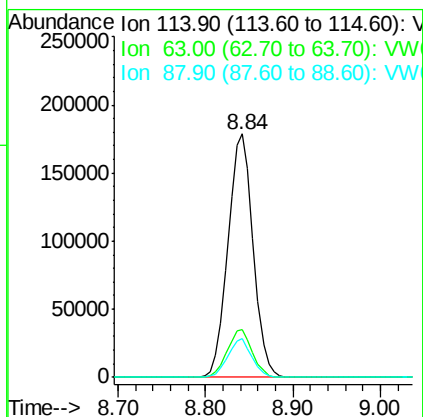
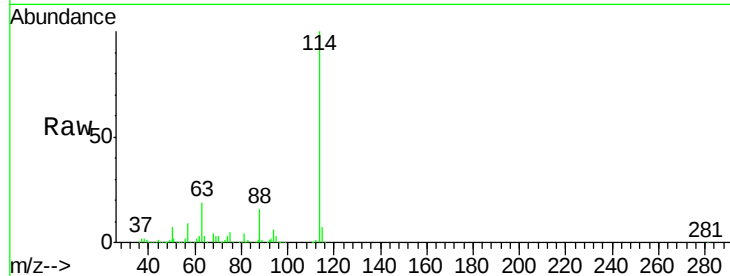
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013423.D
 Acq: 03 Oct 2019 17:02

Instrument :
 MSVOA_W
 ClientSampleId :
 30464-67RE

Tot Ion	Ratio	Resp Lower	Resp Upper
114	100		
63	19.4	0.0	41.4
88	15.8	0.0	32.0

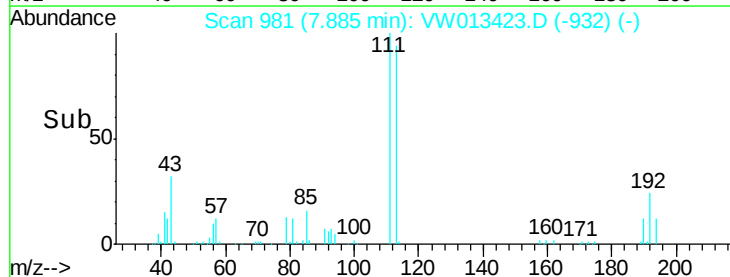
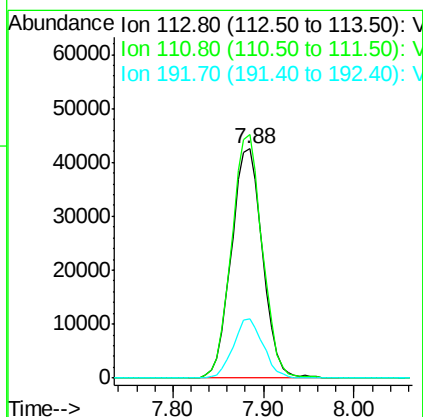
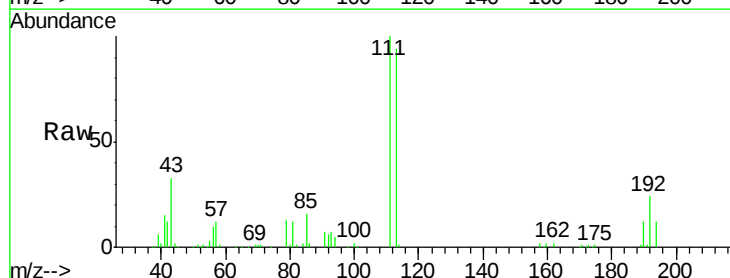
Manual Integrations
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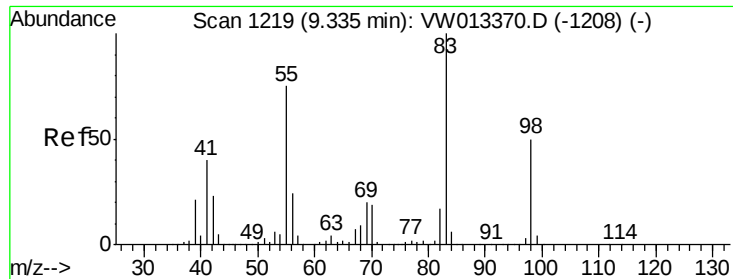
MMDadoda
 10/4/2019 12:06:48 PM



#35
 Dibromofluoromethane
 Concen: 54.359 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013423.D
 Acq: 03 Oct 2019 17:02

Tgt Ion	Ratio	Resp Lower	Resp Upper
113	100		
111	104.3	81.9	122.9
192	24.7	19.1	28.7





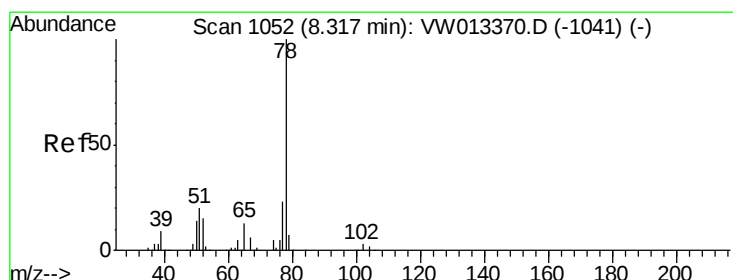
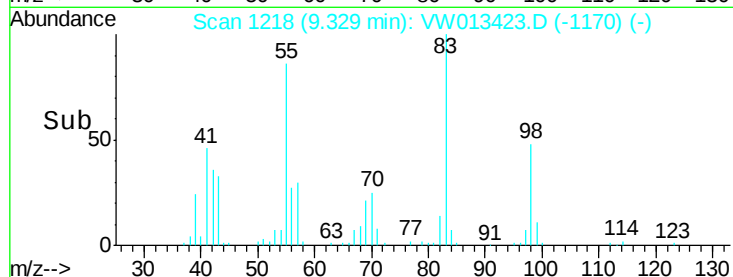
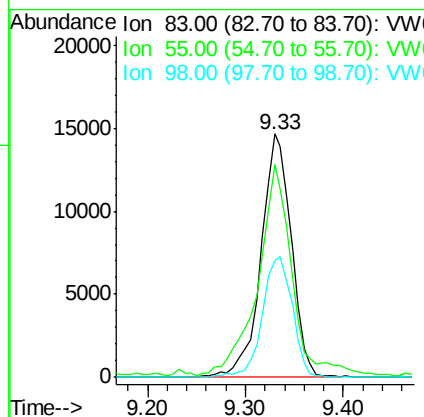
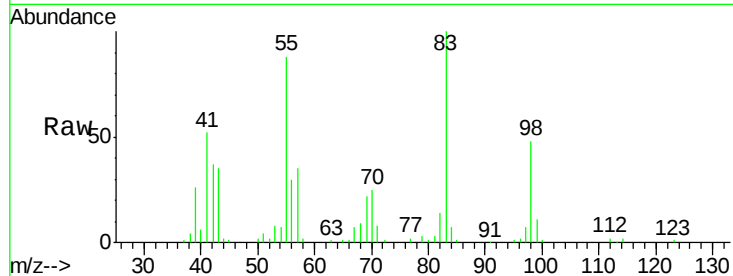
#39
Methvlcvclohexane
Concen: 7.227 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Instrument :
MSVOA_W
ClientSampleId :
30464-67RE

Tot Ion	Ratio	Resp	Lower	Upper
83	100	31489		
55	85.7		60.4	90.6
98	48.3		40.0	60.0

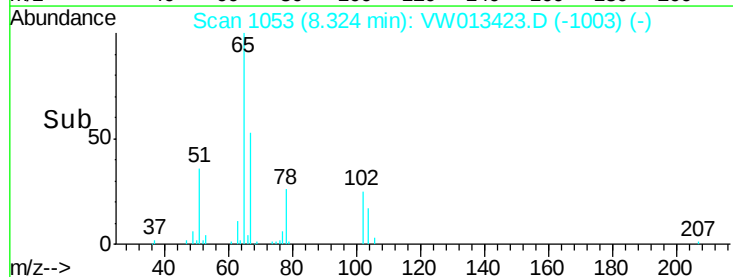
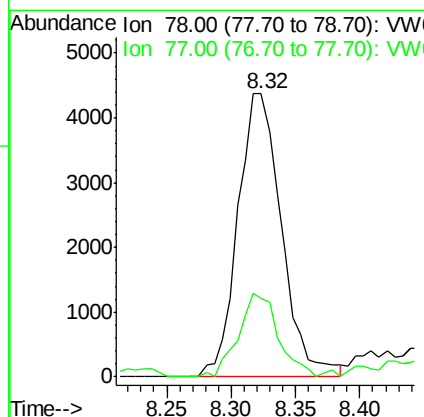
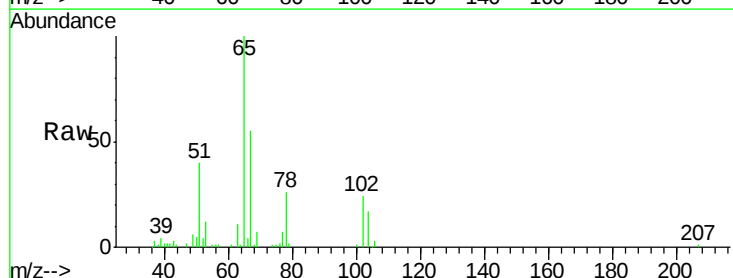
Manual Integrations
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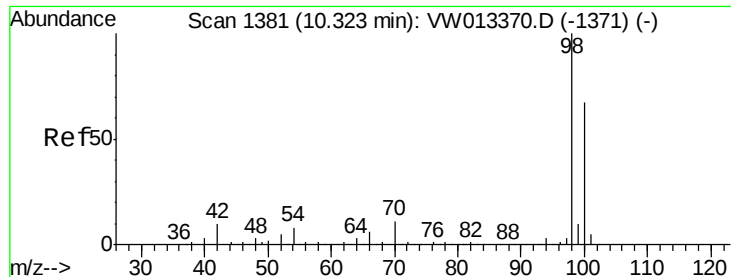
MMDadoda
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#40
Benzene
Concen: 1.095 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	10258		
77	27.6		19.1	28.7





#50

Toluene-d8

Concen: 44.914 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

ClientSampleId :

30464-67RE

Tot Ion: 98 Resp: 348341

Ion Ratio Lower Upper

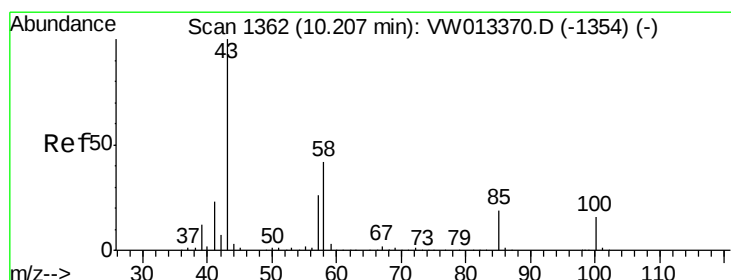
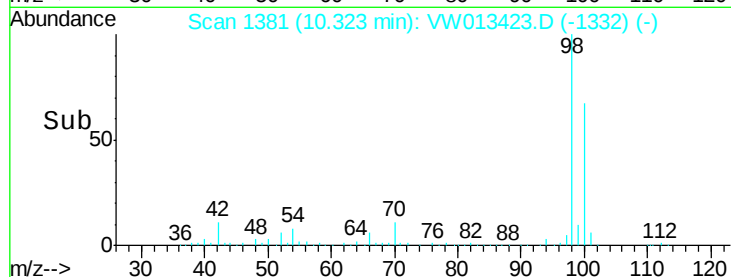
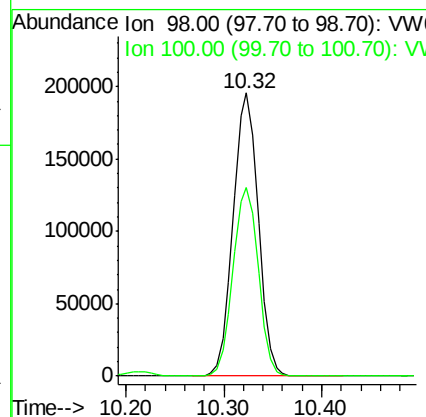
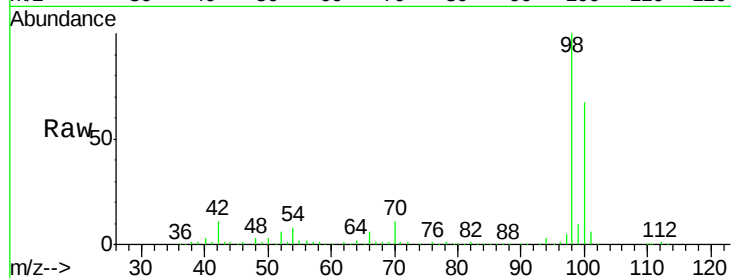
98 100

100 67.1 52.9 79.3

Manual Integrations
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#51

4-Methyl-2-Pentanone

Concen: 27.691 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW013423.D

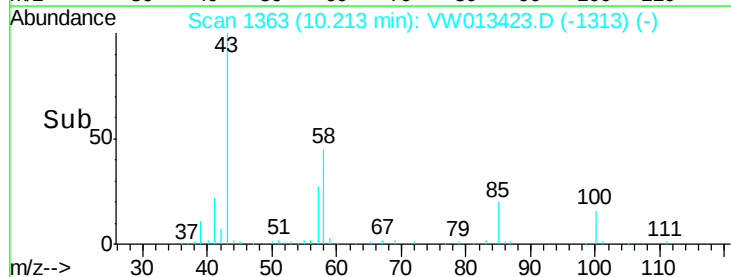
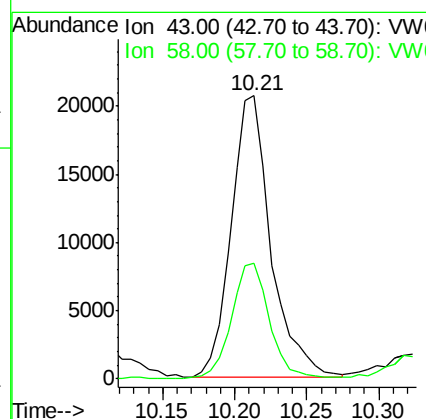
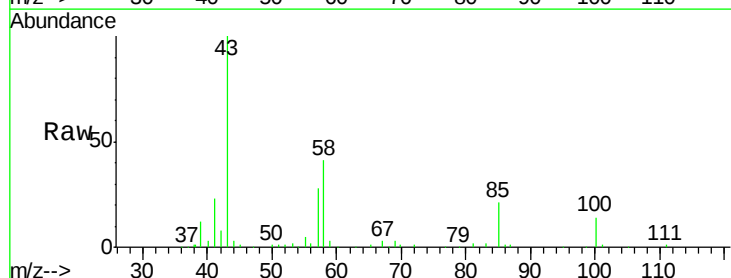
Acq: 03 Oct 2019 17:02

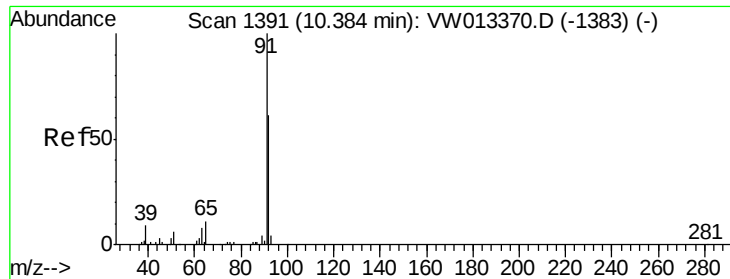
Tgt Ion: 43 Resp: 39980

Ion Ratio Lower Upper

43 100

58 39.3 31.7 47.5





#52

Toluene

Concen: 94.108 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

ClientSampleId :

30464-67RE

Tot Ion: 92 Resp: 568441

Ion Ratio Lower Upper

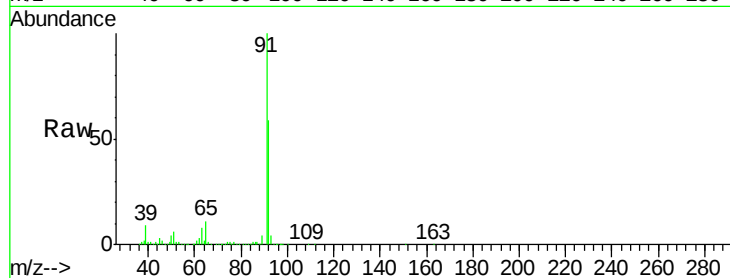
92 100

91 170.8 135.7 203.5

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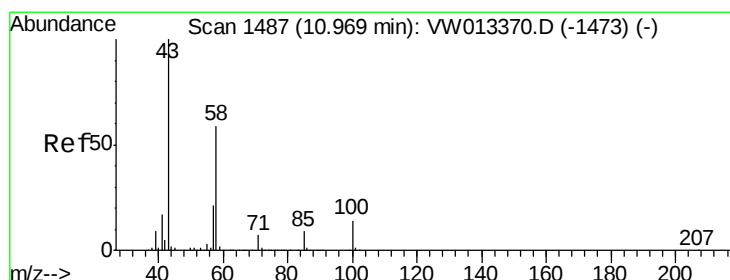
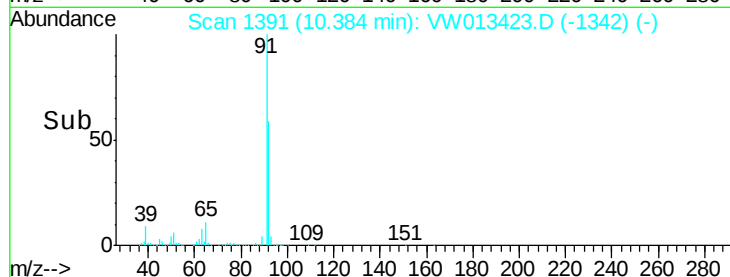
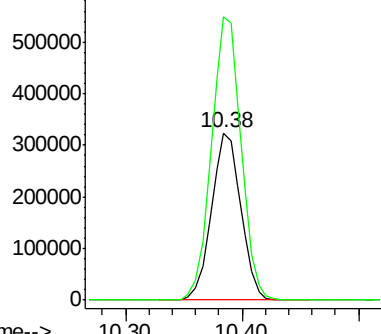
MMDadoda

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Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#59

2-Hexanone

Concen: 5.763 ug/l m

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013423.D

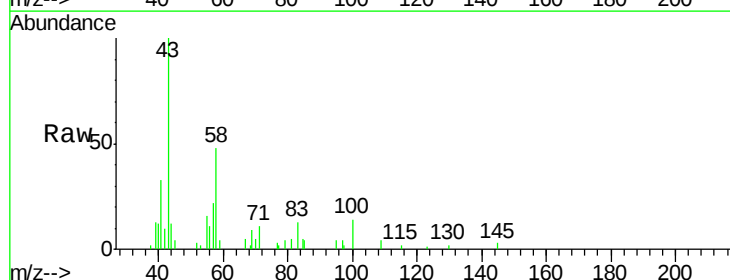
Acq: 03 Oct 2019 17:02

Tgt Ion: 43 Resp: 5767

Ion Ratio Lower Upper

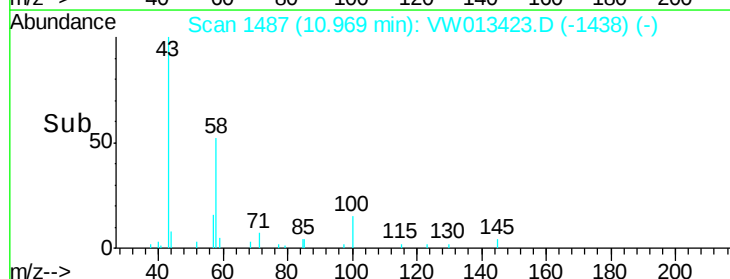
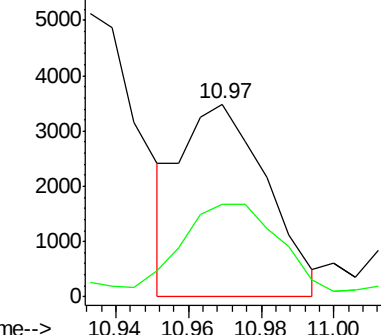
43 100

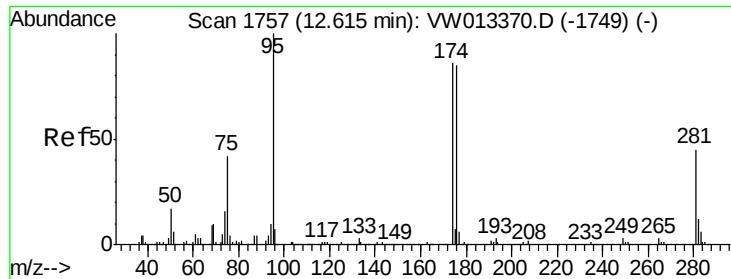
58 16.3 28.1 84.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#62

4-Bromofluorobenzene

Concen: 31.718 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

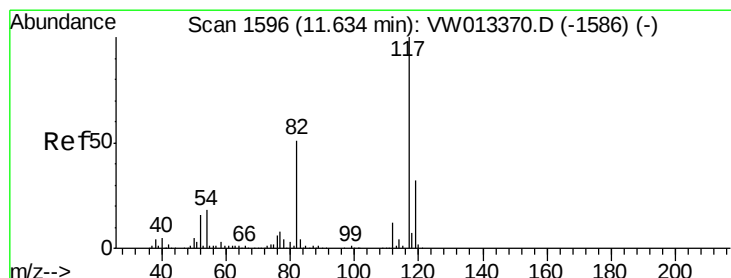
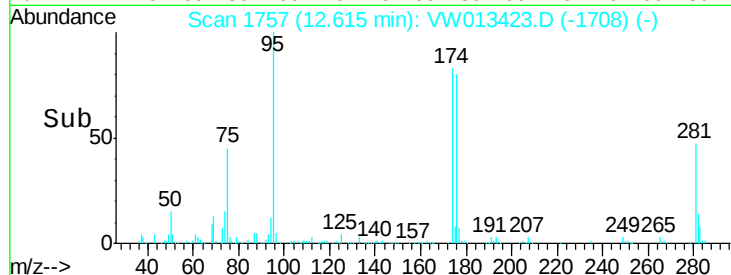
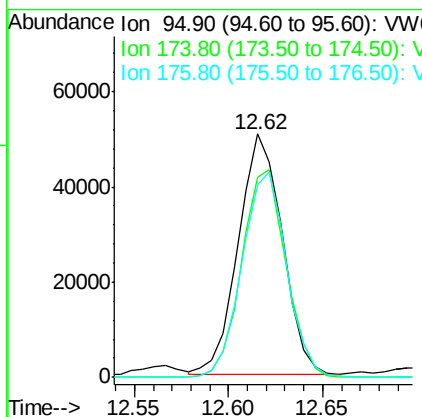
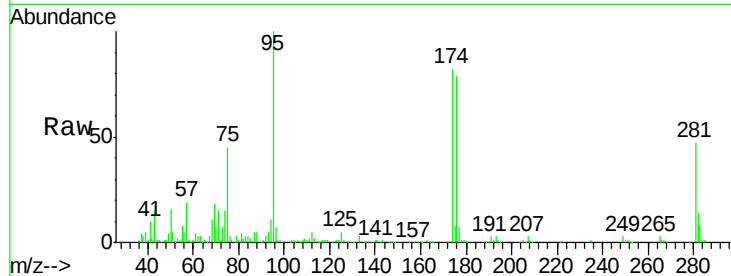
ClientSampleId :

30464-67RE

Tot Ion:	95	Resp:	82149
Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	178.4
176	86.0	0.0	172.2

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

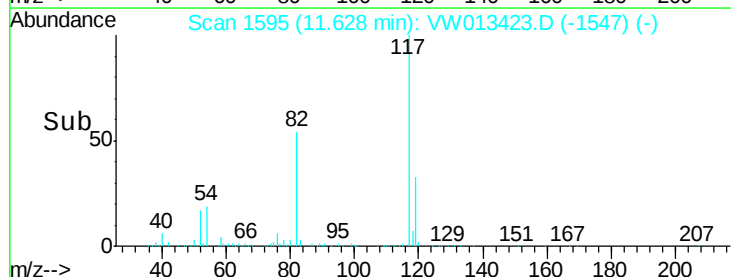
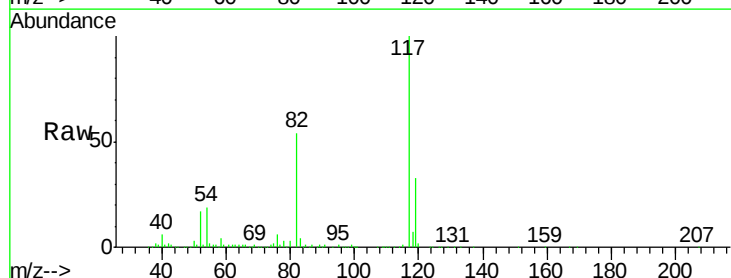
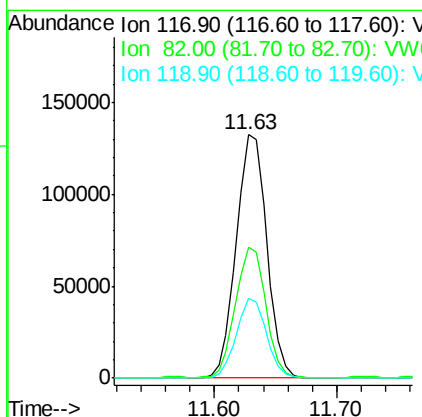
RT: 11.63 min Scan# 1595

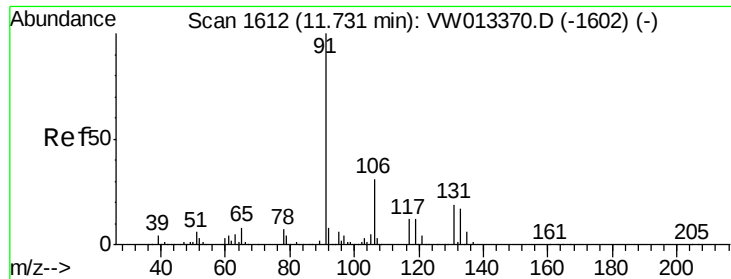
Delta R.T. -0.01 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Tgt Ion:	117	Resp:	229188
Ion	Ratio	Lower	Upper
117	100		
82	53.7	45.9	68.9
119	32.8	26.2	39.2





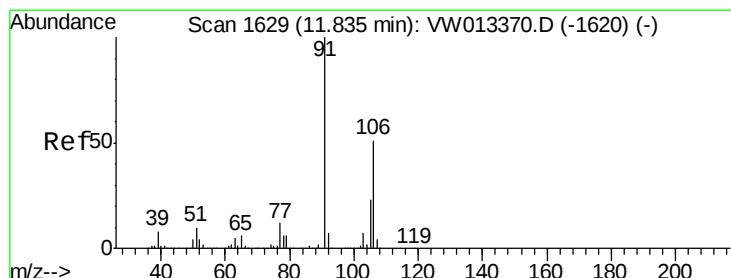
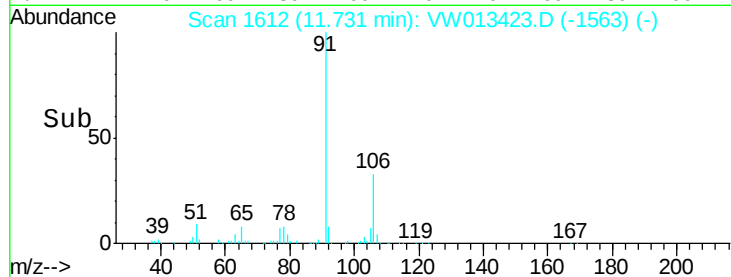
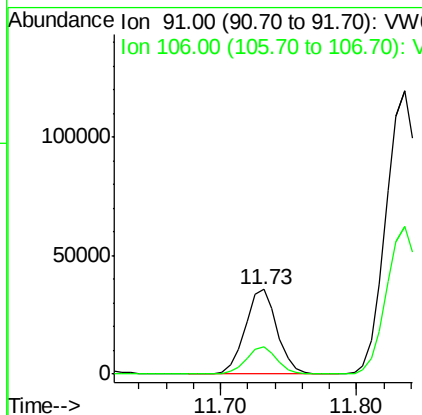
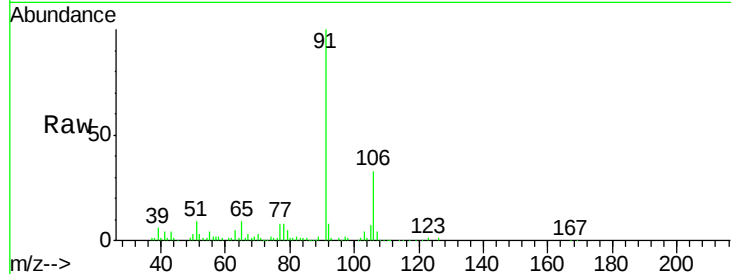
#67
Ethyl Benzene
Concen: 6.891 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Instrument :
MSVOA_W
ClientSampled :
30464-67RE

Tot Ion: 91 Resp: 57990
Ion Ratio Lower Upper
91 100
106 33.0 24.9 37.3

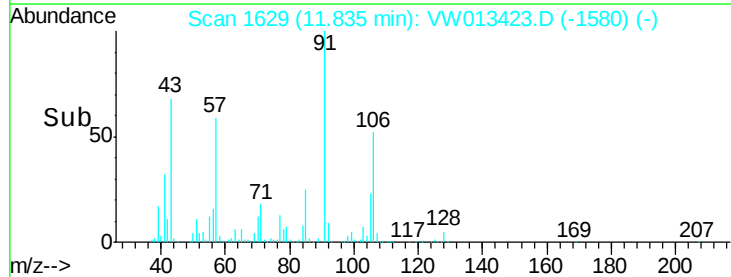
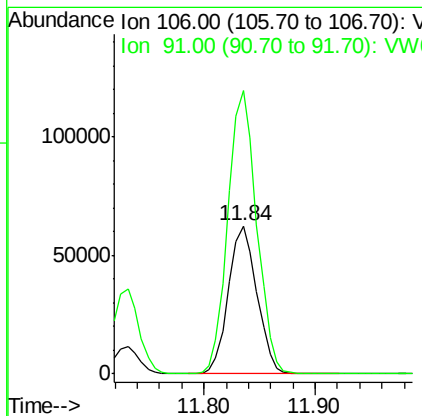
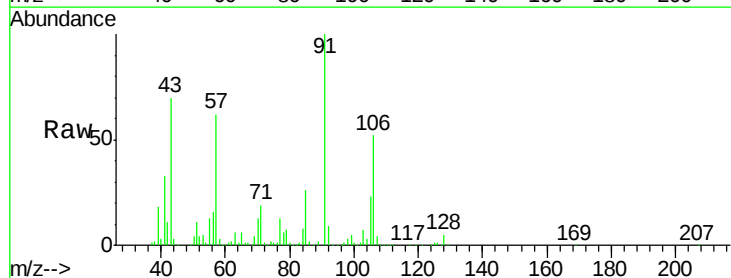
Manual Integrations
APPROVED

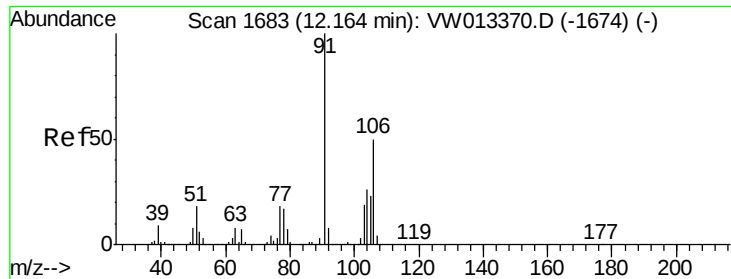
MMDadoda
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#68
m/p-Xylenes
Concen: 34.215 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Tgt Ion: 106 Resp: 111136
Ion Ratio Lower Upper
106 100
91 192.2 157.9 236.9





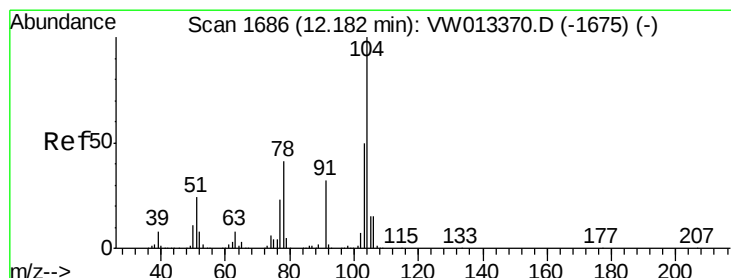
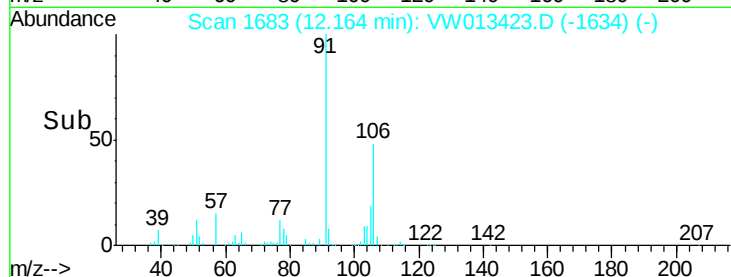
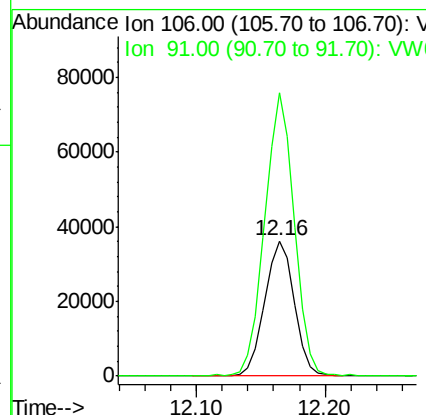
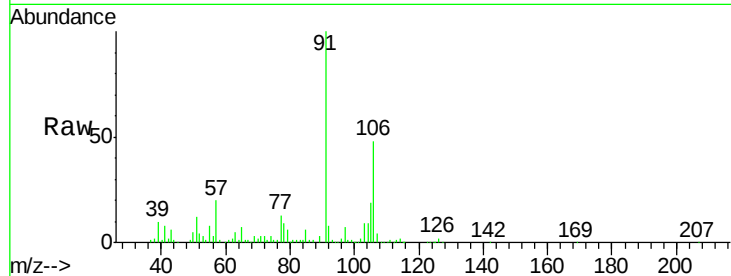
#69
o-Xylene
Concen: 19.073 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Instrument :
MSVOA_W
ClientSampleId :
30464-67RE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		57282		
91	209.3	106.5	319.5		

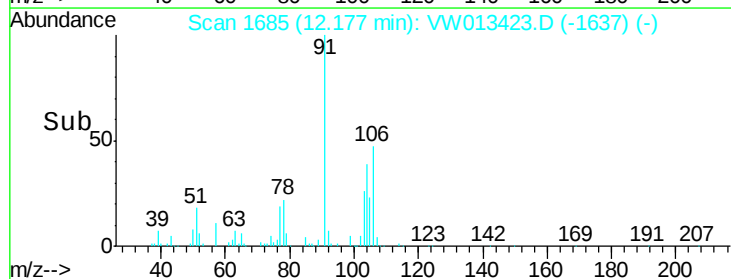
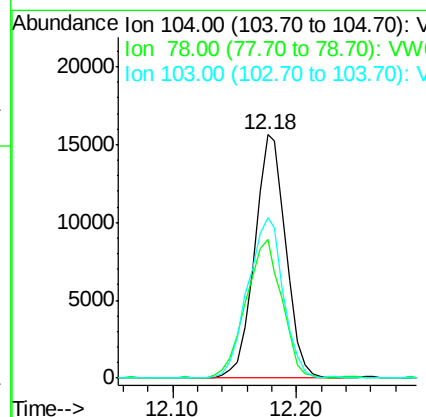
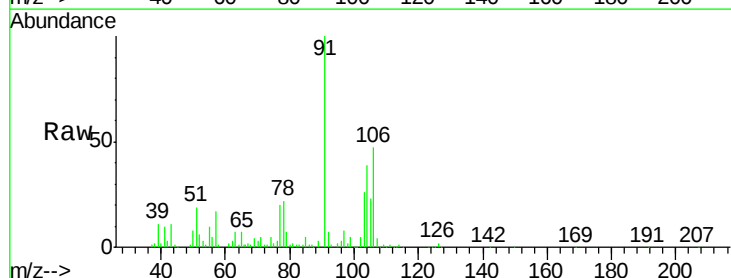
Manual Integrations
APPROVED

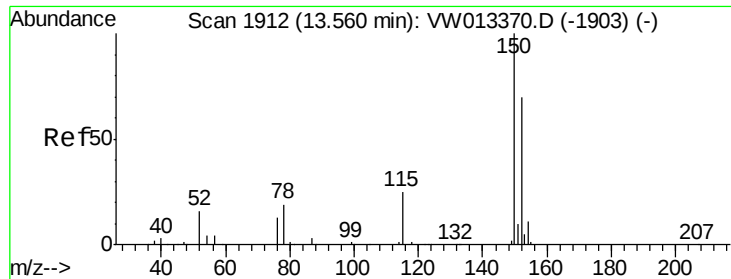
MMDadoda
10/4/2019 12:06:48 PM



#70
Styrene
Concen: 5.382 ug/l m
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		27630		
78	0.0	38.4	57.6#		
103	0.0	43.3	64.9#		





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

ClientSampleId :

30464-67RE

Tot Ion:152 Resp: 48623

Ion Ratio Lower Upper

152 100

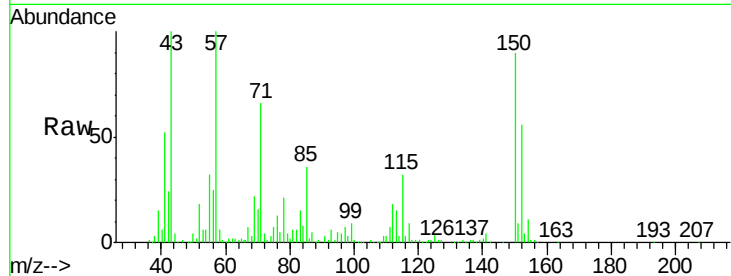
115 60.7 27.3 81.9

150 155.2 0.0 349.0

Manual Integrations
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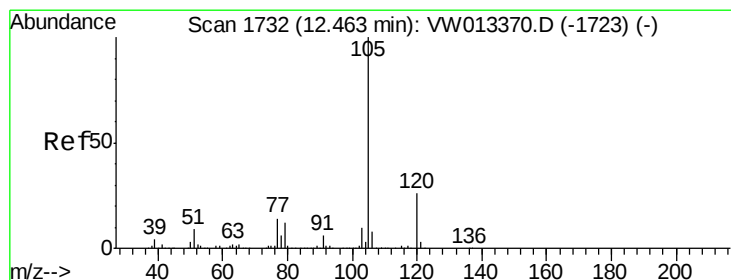
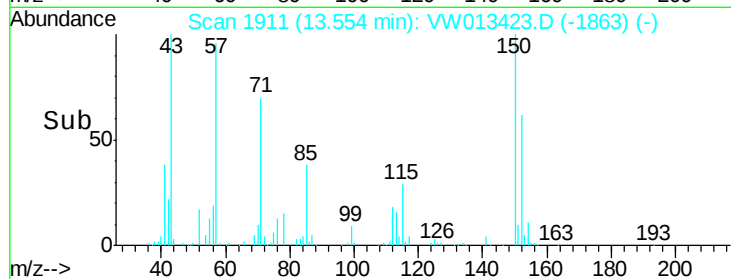
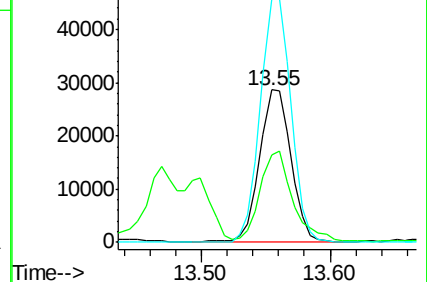
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 10.211 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW013423.D

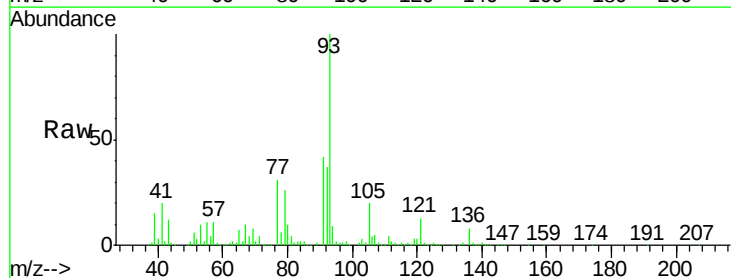
Acq: 03 Oct 2019 17:02

Tgt Ion:105 Resp: 36317

Ion Ratio Lower Upper

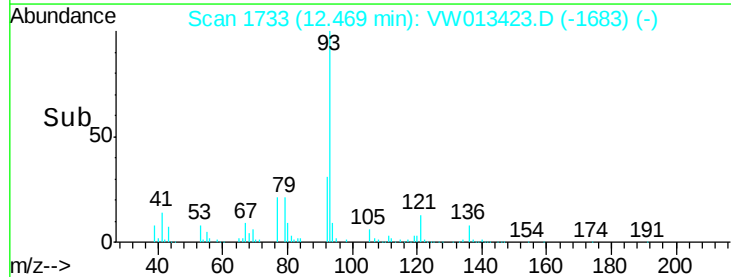
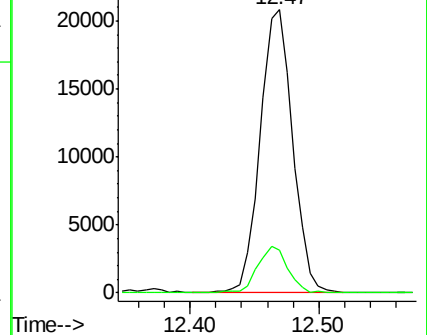
105 100

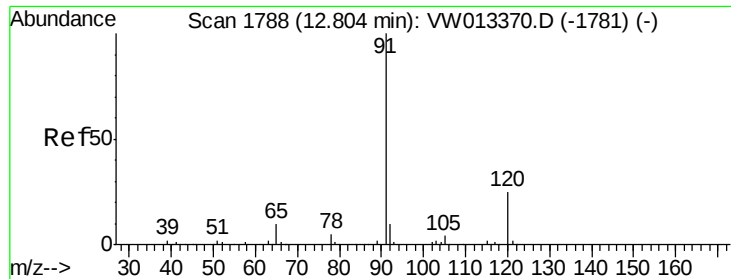
120 15.2 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 11.158 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW013423.D

Acq: 03 Oct 2019 17:02

Instrument :

MSVOA_W

ClientSampleId :

30464-67RE

Tot Ion: 91 Resp: 45650

Ion Ratio Lower Upper

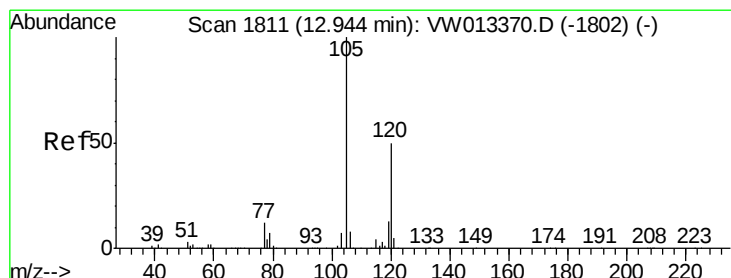
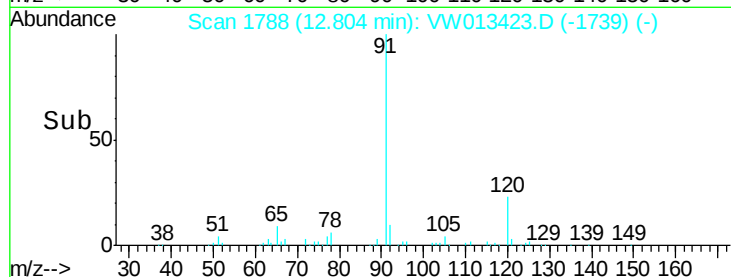
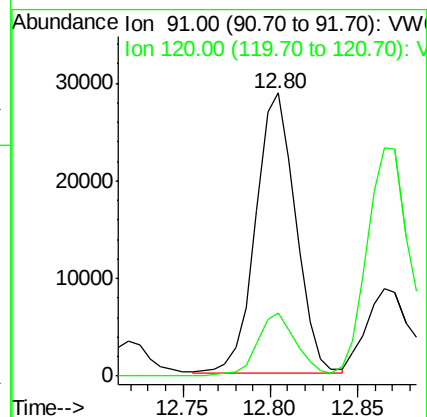
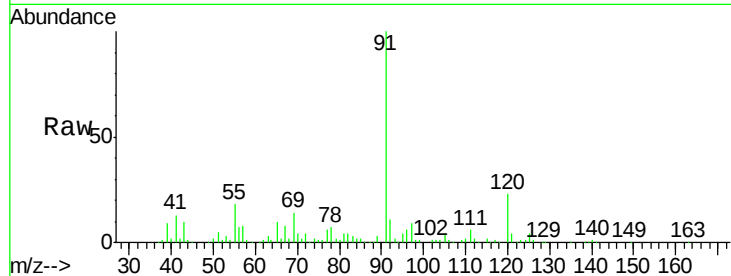
91 100

120 22.0 11.7 35.1

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#80

1,3,5-Trimethylbenzene

Concen: 23.818 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW013423.D

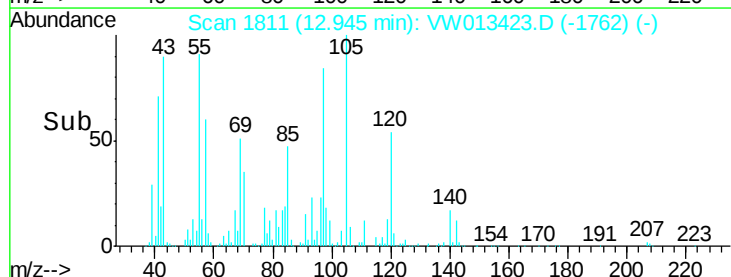
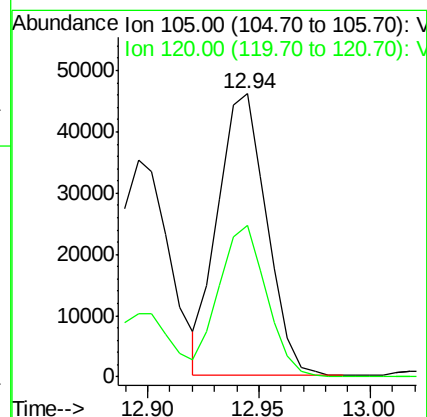
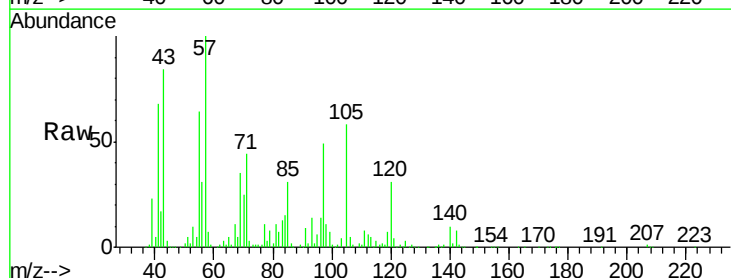
Acq: 03 Oct 2019 17:02

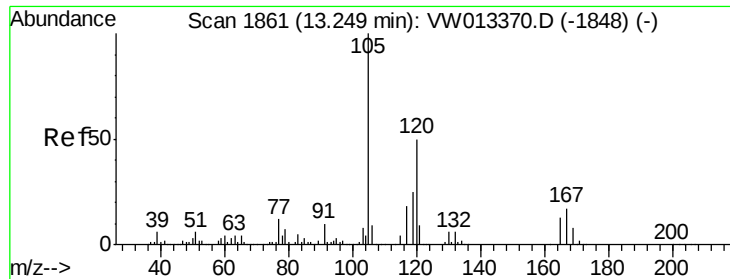
Tgt Ion: 105 Resp: 70370

Ion Ratio Lower Upper

105 100

120 52.5 24.9 74.8





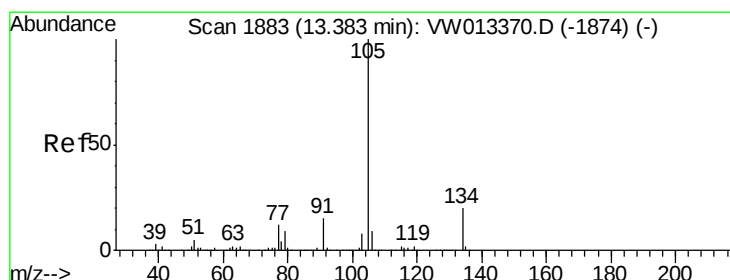
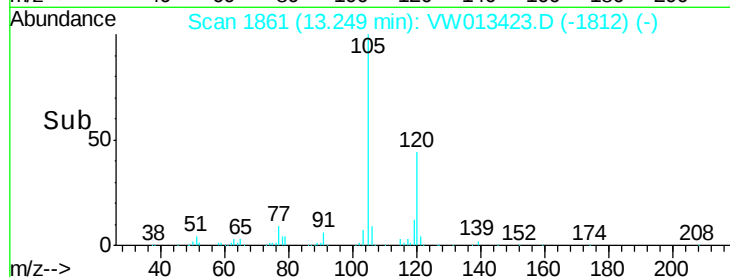
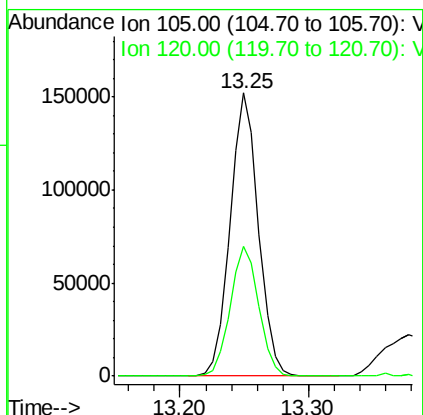
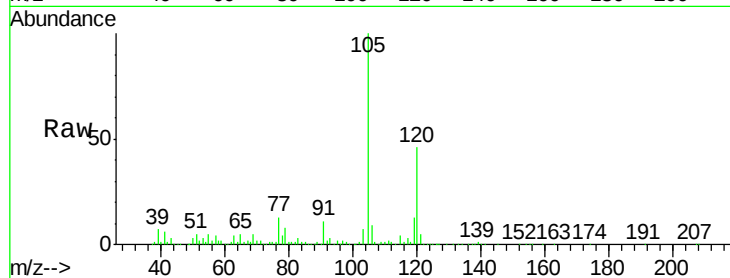
#84
1,2,4-Trimethylbenzene
Concen: 78.959 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Instrument :
MSVOA_W
ClientSampleId :
30464-67RE

Tot Ion:105 Resp: 231910
Ion Ratio Lower Upper
105 100
120 46.2 23.4 70.3

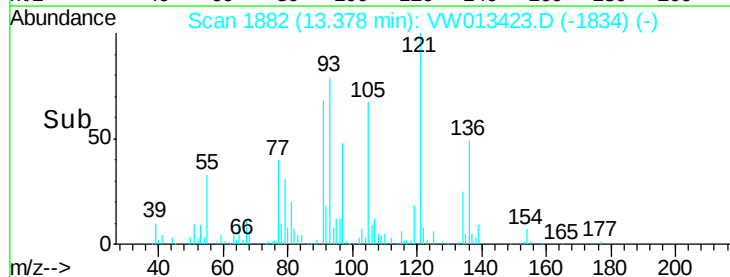
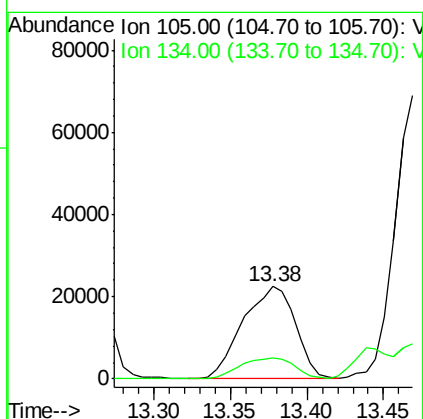
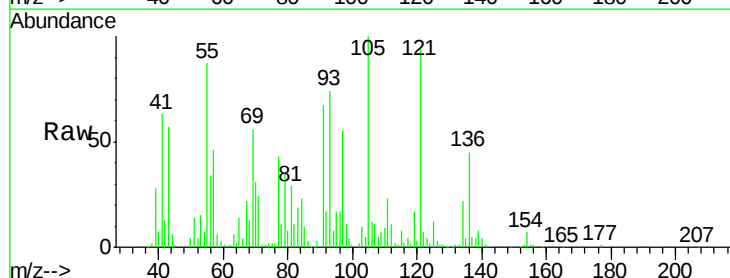
Manual Integrations
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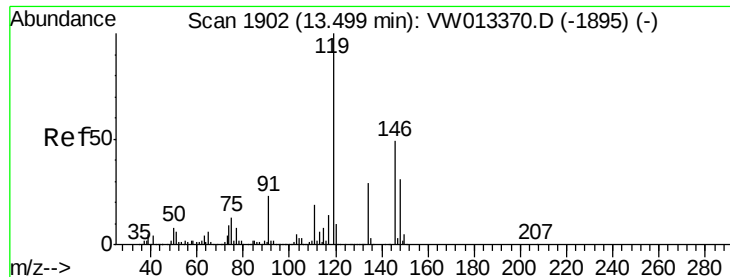
MMDadoda
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#85
sec-Butylbenzene
Concen: 15.006 ug/l
RT: 13.38 min Scan# 1882
Delta R.T. -0.01 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Tgt Ion:105 Resp: 53391
Ion Ratio Lower Upper
105 100
134 24.0 10.3 30.8





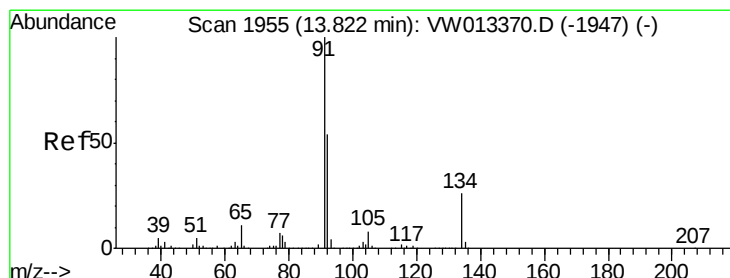
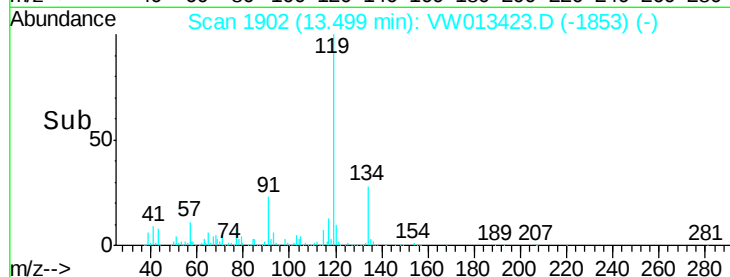
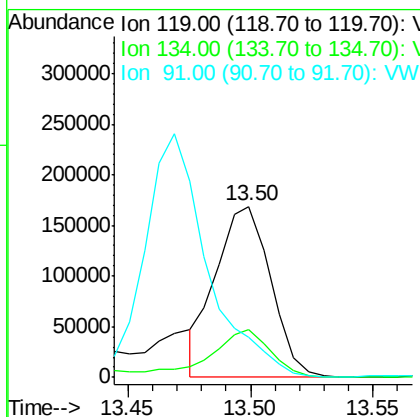
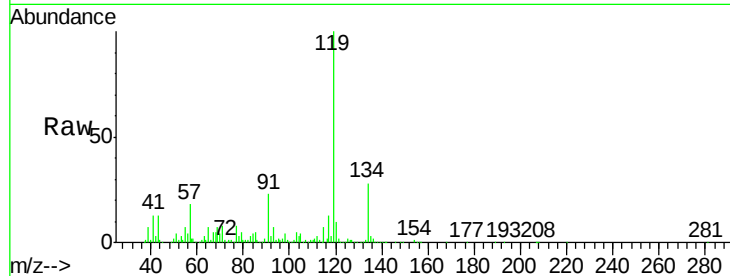
#86
p-Isopropyltoluene
Concen: 80.261 ug/l m
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Instrument :
MSVOA_W
ClientSampleId :
30464-67RE

Tot Ion	Ratio	Lower	Upper
119	100		
134	30.2	13.3	39.8
91	0.0	10.8	32.4#

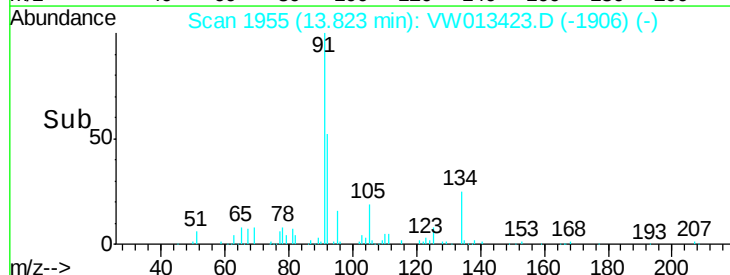
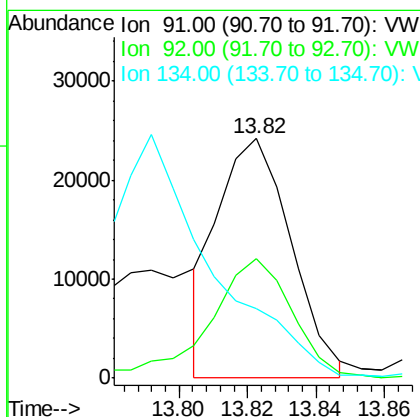
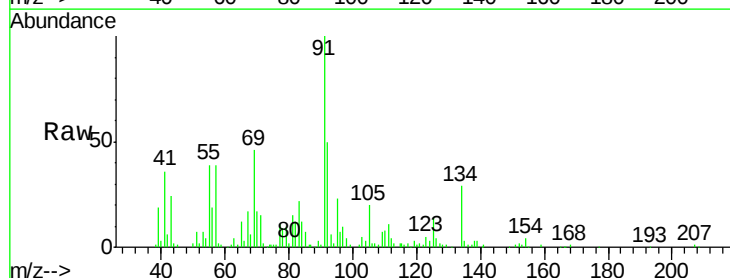
Manual Integrations
APPROVED

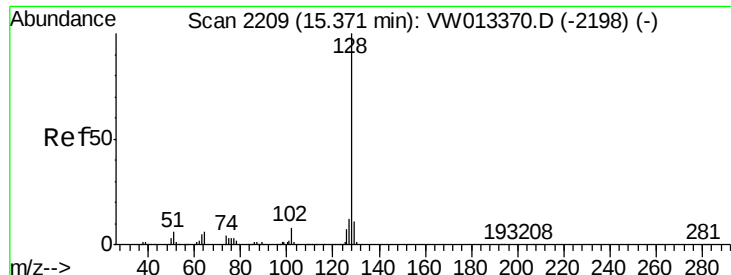
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#89
n-Butylbenzene
Concen: 12.089 ug/l m
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	107.1	27.6	82.8#
134	41.0	13.7	41.1





#95
Naphthalene
Concen: 17.053 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW013423.D
Acq: 03 Oct 2019 17:02

Instrument :
MSVOA_W
ClientSampleId :
30464-67RE

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	16.6	10.6	15.8#
129	11.2	8.7	13.1

Manual Integrations
APPROVED

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