

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100319\
 Data File : VW013417.D
 Acq On : 03 Oct 2019 14:27
 Operator : SY/VA
 Sample : K5176-05
 Misc : 5.10G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 30464-67

Manual Integrations
 APPROVED

MMDadoda
 10/4/2019 12:07:35 PM

Quant Time: Oct 04 09:55:10 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	254519	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	380671	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	254570	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	60786	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	105769	55.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.32%	
35) Dibromofluoromethane	7.88	113	106607	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
50) Toluene-d8	10.32	98	387480	46.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.50%	
62) 4-Bromofluorobenzene	12.62	95	92748	33.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.02%	
Target Compounds						
					Qvalue	
7) Trichlorofluoromethane	3.24	101	3711	3.710	ug/l	99
11) Tert butyl alcohol	5.23	59	30907m	193.235	ug/l	
16) Acetone	4.14	43	106455	182.750	ug/l	97
17) Carbon Disulfide	4.37	76	15995	2.447	ug/l	98
20) Methylene Chloride	4.90	84	60146	23.795	ug/l	97
25) 2-Butanone	7.18	43	32305	43.341	ug/l	94
30) Chloroform	7.67	83	420457	105.176	ug/l	99
31) Cyclohexane	7.91	56	127078	29.228	ug/l #	42
39) Methylcyclohexane	9.34	83	29108	6.251	ug/l	88
40) Benzene	8.32	78	11200	1.119	ug/l	99
51) 4-Methyl-2-Pentanone	10.21	43	38931	25.230	ug/l	98
52) Toluene	10.38	92	576094	89.238	ug/l	99
59) 2-Hexanone	10.97	43	5507m	5.149	ug/l	
67) Ethyl Benzene	11.73	91	56441	6.038	ug/l	100
68) m/p-Xylenes	11.83	106	101221	28.055	ug/l	96
69) o-Xylene	12.16	106	52740	15.810	ug/l	96
70) Styrene	12.18	104	27468	4.817	ug/l #	73
73) Isopropylbenzene	12.47	105	29702	6.680	ug/l	84
78) n-propylbenzene	12.80	91	43572	8.519	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	66525	18.011	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	231084	62.935	ug/l	99
85) sec-Butylbenzene	13.38	105	40839	9.181	ug/l	82
86) p-Isopropyltoluene	13.50	119	243005m	58.950	ug/l	
89) n-Butylbenzene	13.82	91	32814m	8.829	ug/l	
95) Naphthalene	15.36	128	31999	14.886	ug/l #	91

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

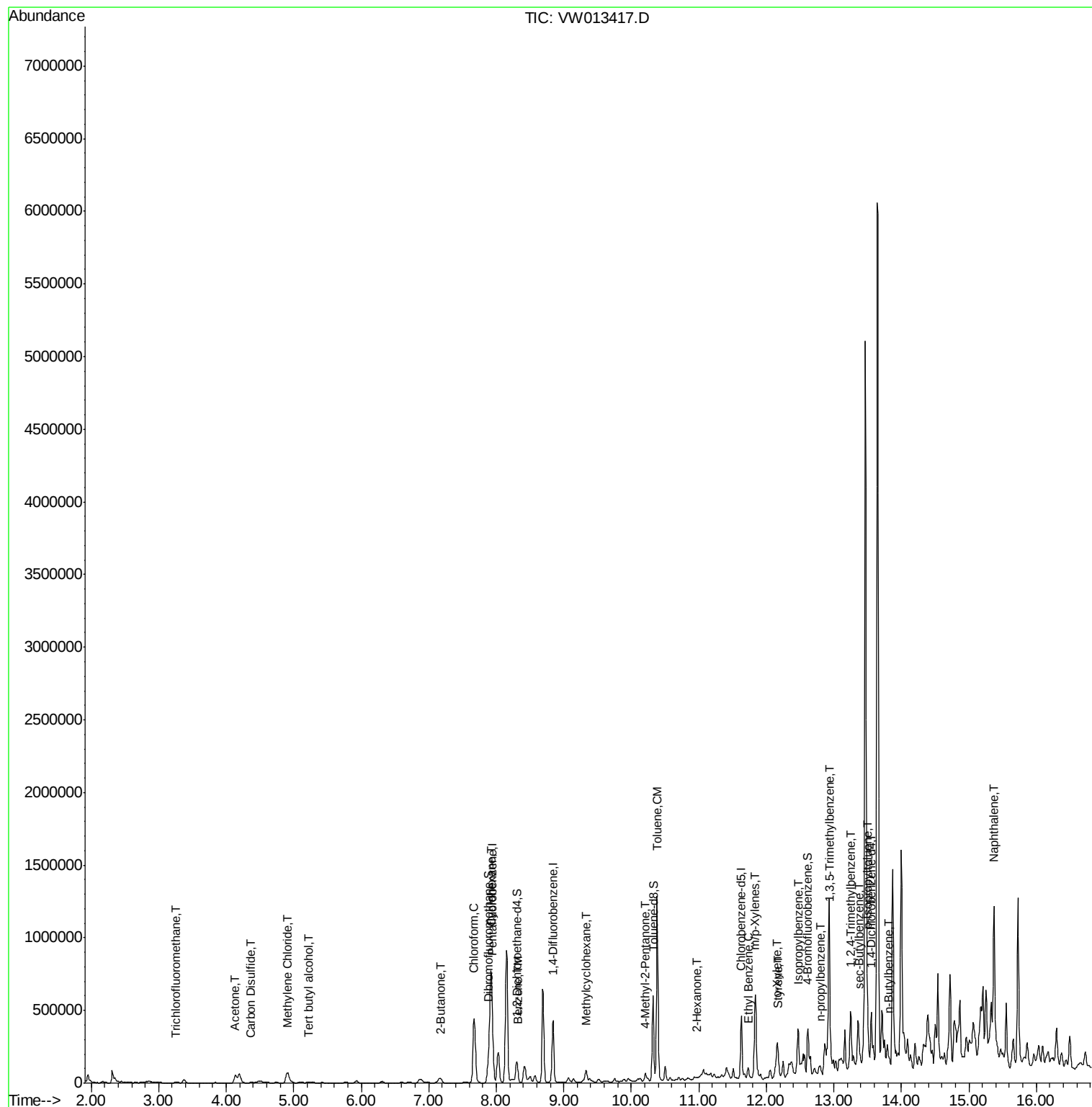
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW100319\
Data File : VW013417.D
Acq On : 03 Oct 2019 14:27
Operator : SY/VA
Sample : K5176-05
Misc : 5.10G/5ML/MSVOA W/SOIL
ALS Vial : 7 Sample Multiplier: 1

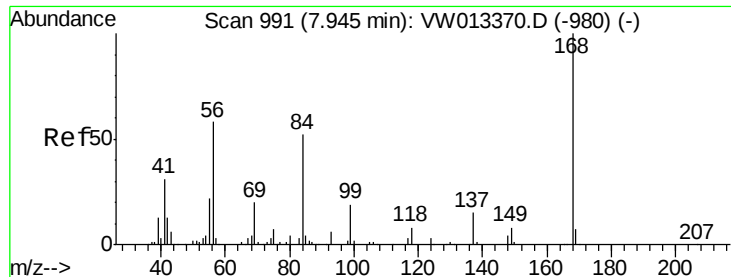
Instrument :
MSVOA_W
ClientSampleId :
30464-67

Manual Integrations
APPROVED

MMDadoda
10/4/2019 12:07:35 PM

Quant Time: Oct 04 09:55:10 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: VW013417.D

Acq: 03 Oct 2019 14:27

Instrument :

MSVOA_W

ClientSampled :

30464-67

Tot Ion:168 Resp: 254519

Ion Ratio Lower Upper

168 100

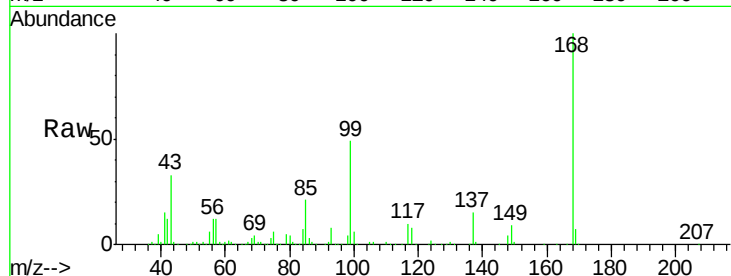
99 48.6 40.2 60.4

Manual Integrations

APPROVED

MMDadoda

10/4/2019 12:07:35 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

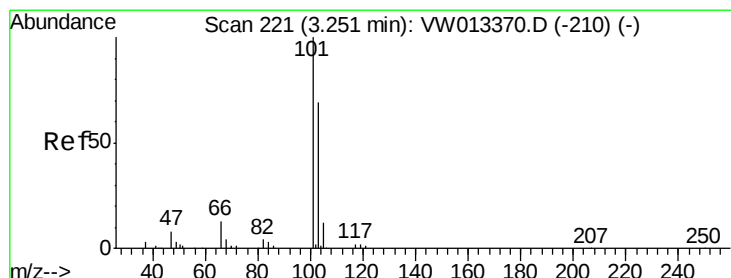
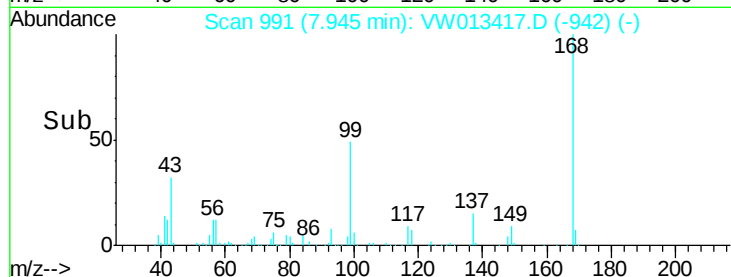
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#7

Trichlorofluoromethane

Concen: 3.710 ug/l

RT: 3.24 min Scan# 220

Delta R.T. -0.01 min

Lab File: VW013417.D

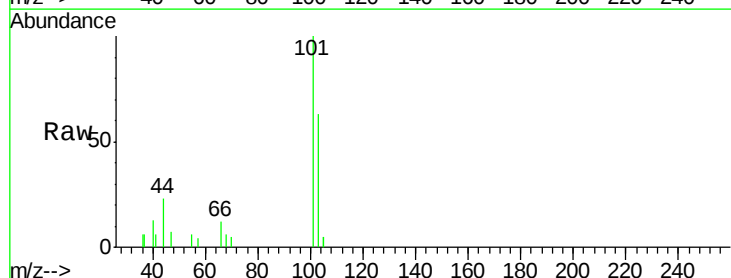
Acq: 03 Oct 2019 14:27

Tgt Ion:101 Resp: 3711

Ion Ratio Lower Upper

101 100

103 63.2 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

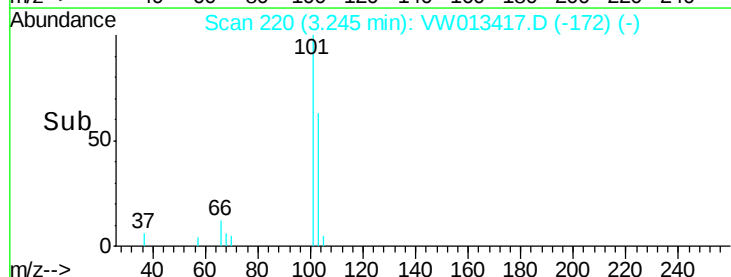
1500

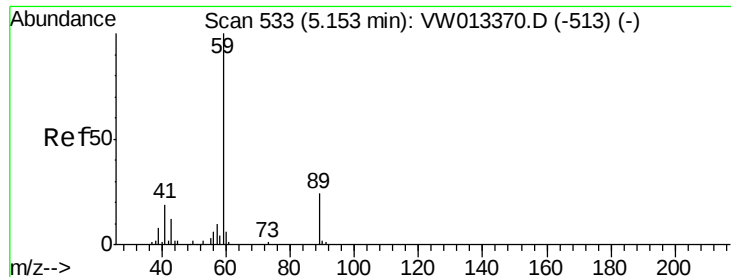
1000

500

0

Time--> 3.15 3.20 3.25 3.30





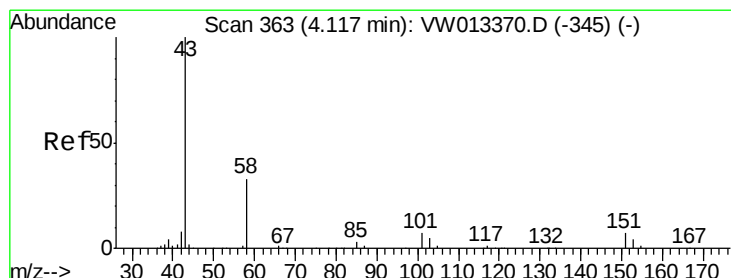
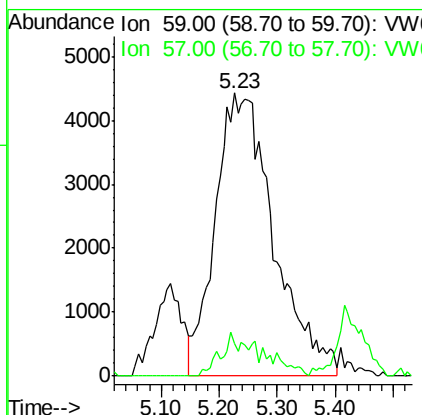
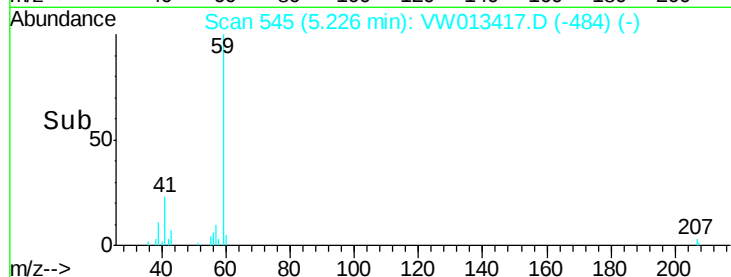
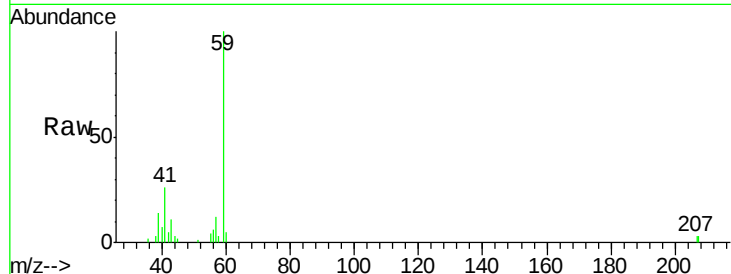
#11
Tert butyl alcohol
Concen: 193.235 ug/l m
RT: 5.23 min Scan# 545
Delta R.T. 0.07 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Instrument :
MSVOA_W
ClientSampled :
30464-67

Tot Ion: 59 Resp: 30907
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

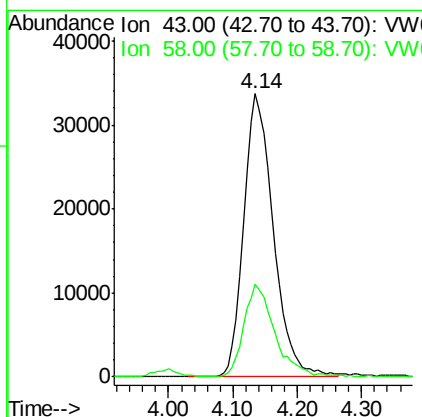
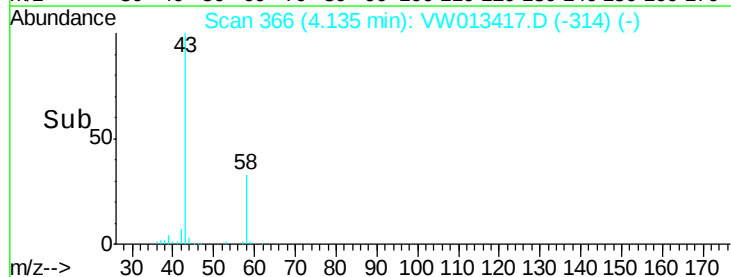
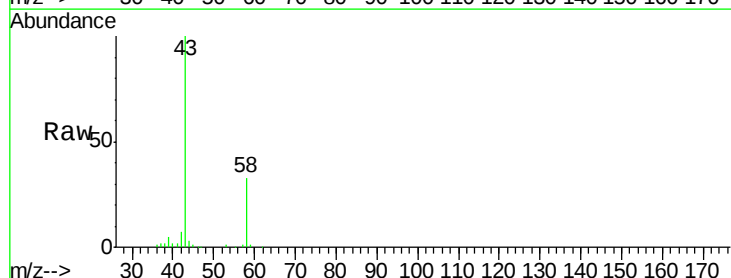
Manual Integrations
APPROVED

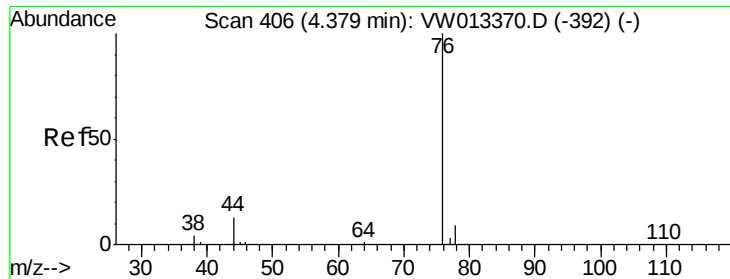
MMDadoda
10/4/2019 12:07:35 PM



#16
Acetone
Concen: 182.750 ug/l
RT: 4.14 min Scan# 366
Delta R.T. 0.02 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Tgt Ion: 43 Resp: 106455
Ion Ratio Lower Upper
43 100
58 32.0 24.1 36.1





#17

Carbon Disulfide

Concen: 2.447 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW013417.D

Acq: 03 Oct 2019 14:27

Instrument :

MSVOA_W

ClientSampleId :

30464-67

Tot Ion: 76 Resp: 15995

Ion Ratio Lower Upper

76 100

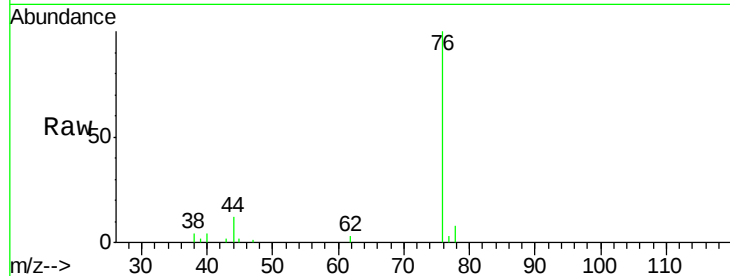
78 7.9 7.0 10.4

Manual Integrations

APPROVED

MMDadoda

10/4/2019 12:07:35 PM



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.37

6000

5000

4000

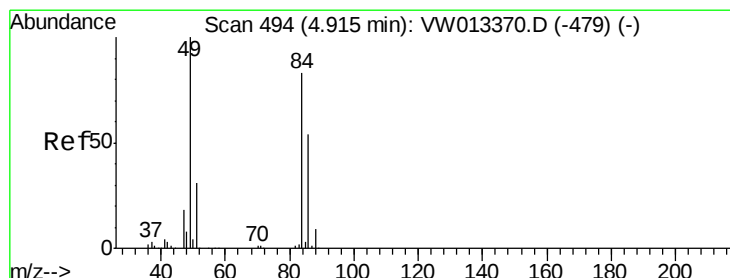
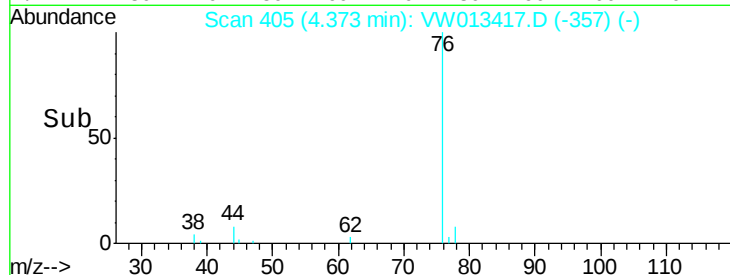
3000

2000

1000

0

Time-->



#20

Methylene Chloride

Concen: 23.795 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013417.D

Acq: 03 Oct 2019 14:27

Tgt Ion: 84 Resp: 60146

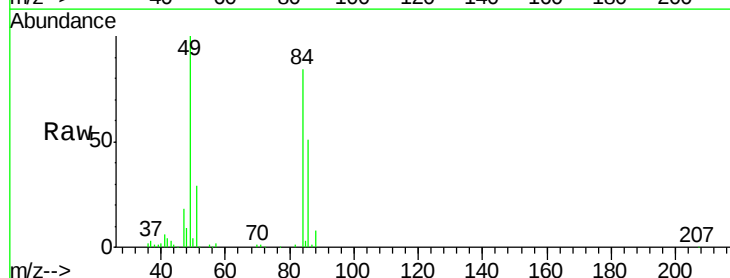
Ion Ratio Lower Upper

84 100

49 119.4 97.6 146.4

51 34.5 30.2 45.2

86 60.9 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

30000

25000

20000

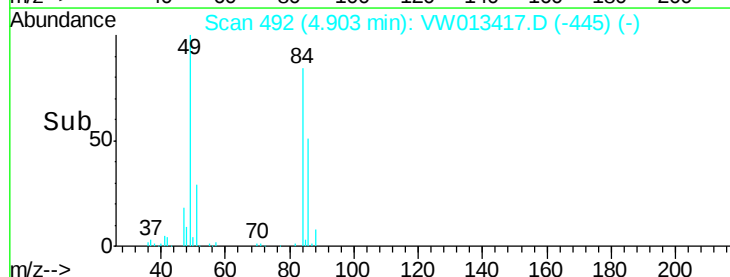
15000

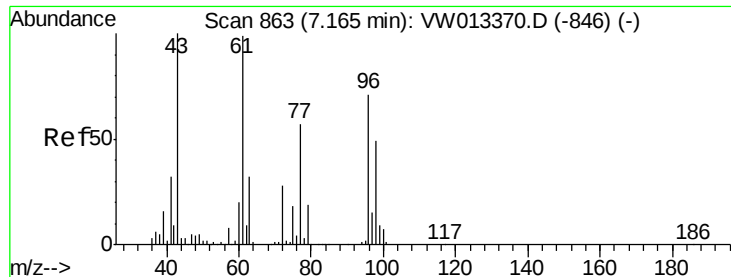
10000

5000

0

Time-->





#25

2-Butanone

Concen: 43.341 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013417.D

Acq: 03 Oct 2019 14:27

Instrument :

MSVOA_W

ClientSampleId :

30464-67

Tot Ion: 43 Resp: 32305

Ion Ratio Lower Upper

43 100

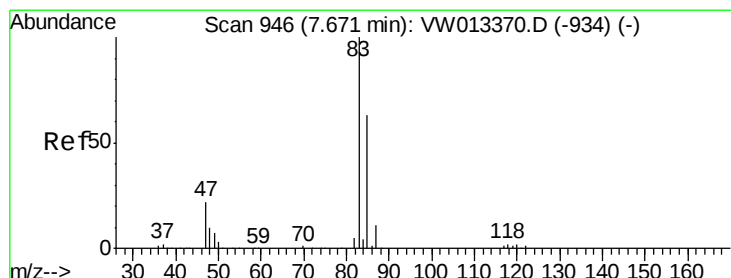
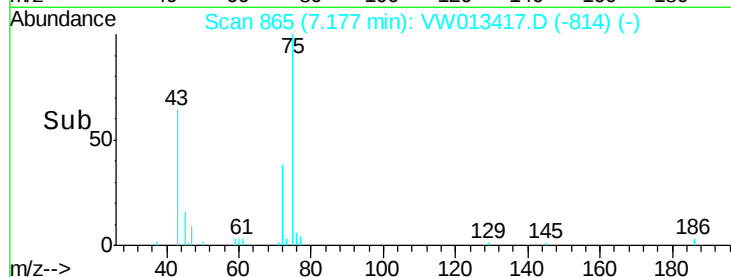
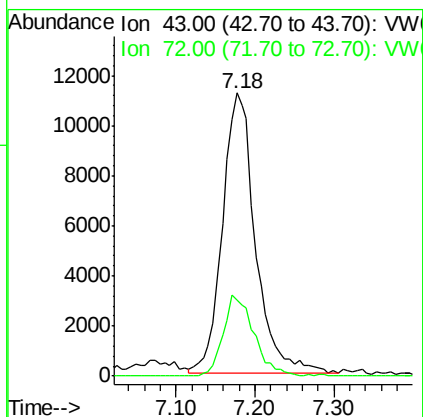
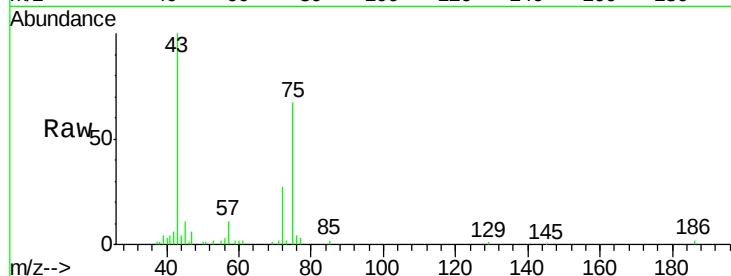
72 27.3 19.4 29.0

Manual Integrations

APPROVED

MMDadoda

10/4/2019 12:07:35 PM



#30

Chloroform

Concen: 105.176 ug/l

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW013417.D

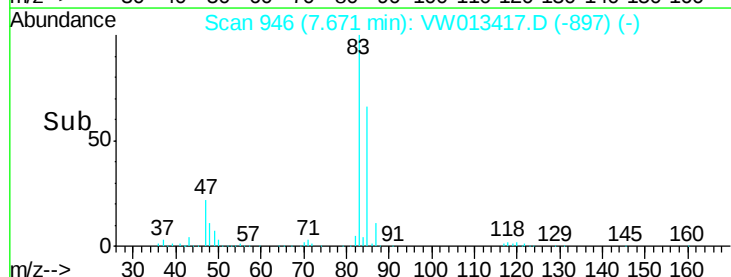
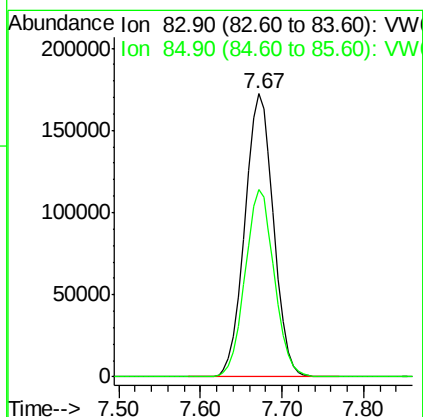
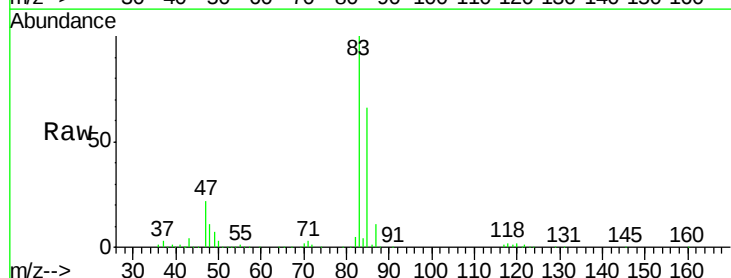
Acq: 03 Oct 2019 14:27

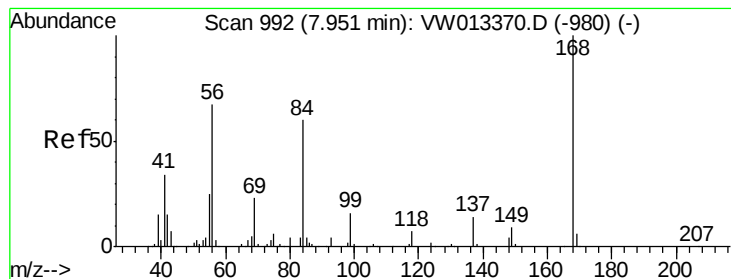
Tgt Ion: 83 Resp: 420457

Ion Ratio Lower Upper

83 100

85 66.3 52.3 78.5





#31

Cyclohexane

Concen: 29.228 ug/l

RT: 7.91 min Scan# 986

Delta R.T. -0.04 min

Lab File: VW013417.D

Acq: 03 Oct 2019 14:27

Instrument :

MSVOA_W

ClientSampleId :

30464-67

Tot Ion: 56 Resp: 127078

Ion Ratio Lower Upper

56 100

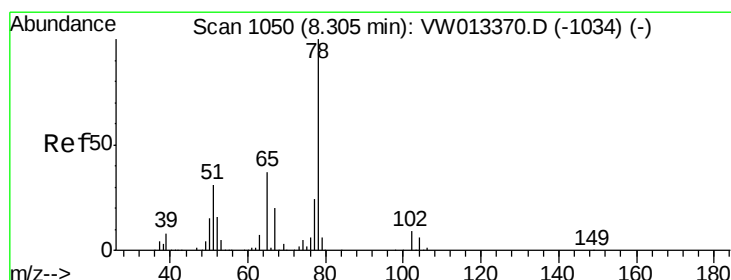
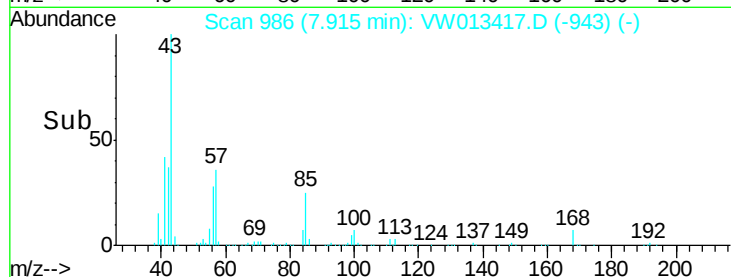
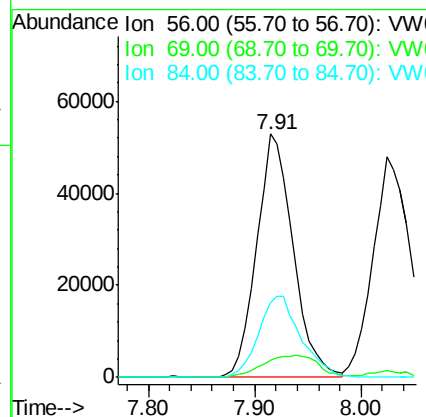
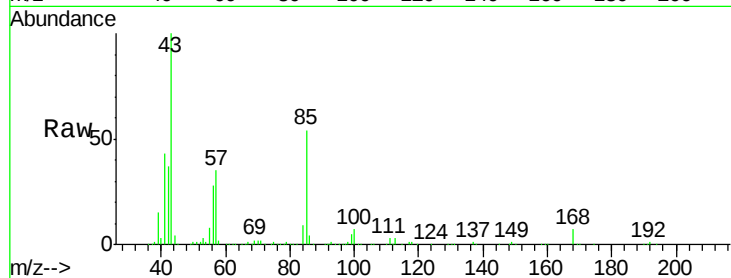
69 6.5 27.2 40.8#

84 30.5 70.8 106.2#

Manual Integrations
APPROVED

MMDadoda

10/4/2019 12:07:35 PM



#33

1,2-Dichloroethane-d4

Concen: 55.656 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013417.D

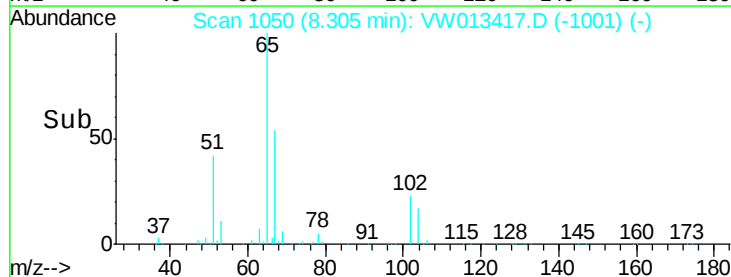
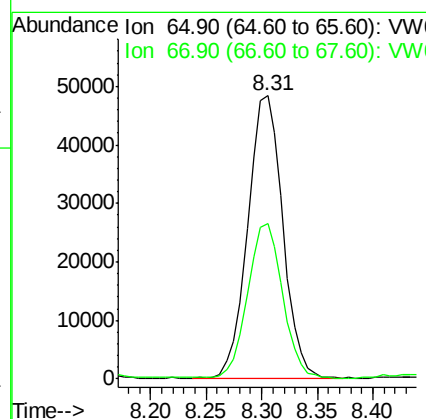
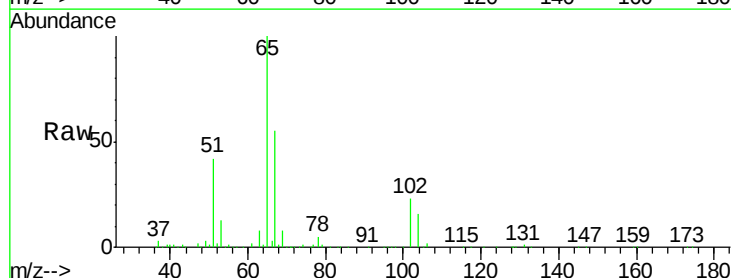
Acq: 03 Oct 2019 14:27

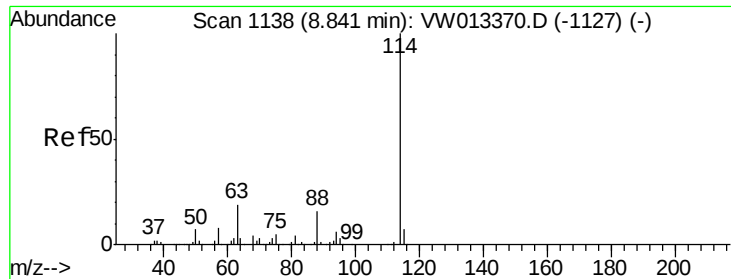
Tgt Ion: 65 Resp: 105769

Ion Ratio Lower Upper

65 100

67 54.4 0.0 106.2





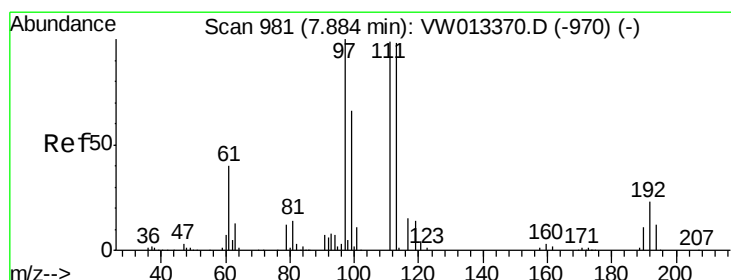
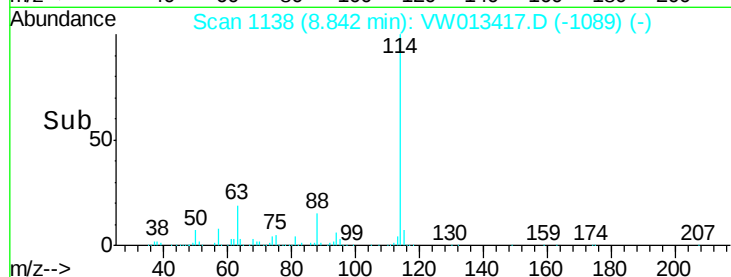
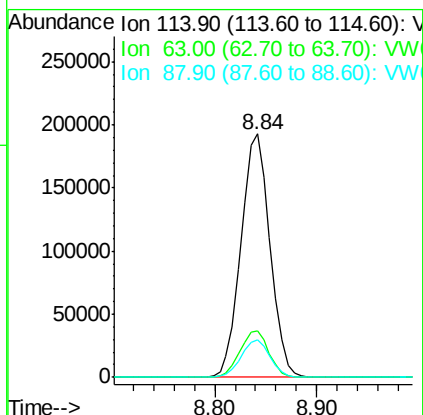
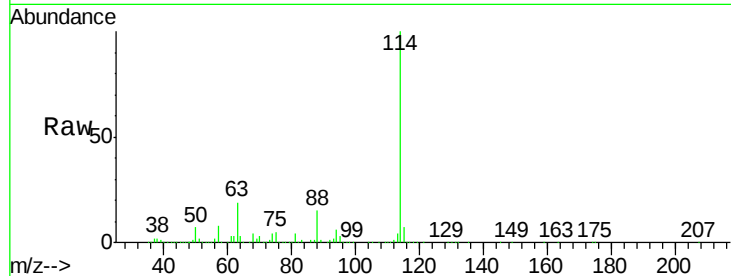
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013417.D
 Acq: 03 Oct 2019 14:27

Instrument :
 MSVOA_W
 ClientSampled :
 30464-67

Tot Ion	Ratio	Resp	Lower	Upper
114	100	380671		
63	19.3		0.0	41.4
88	15.3		0.0	32.0

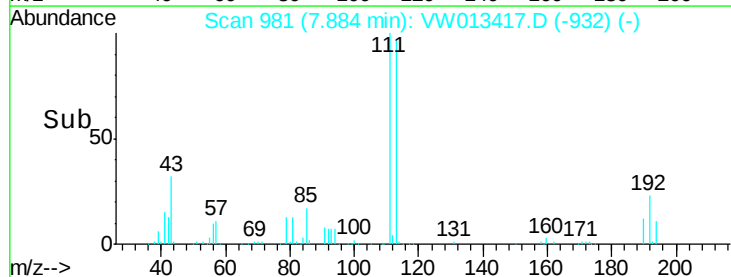
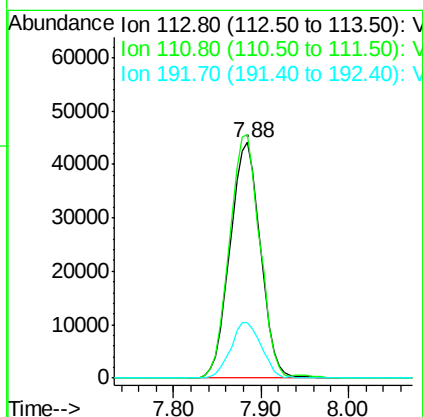
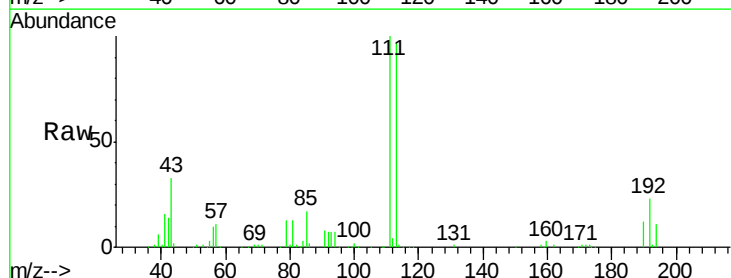
Manual Integrations
 APPROVED

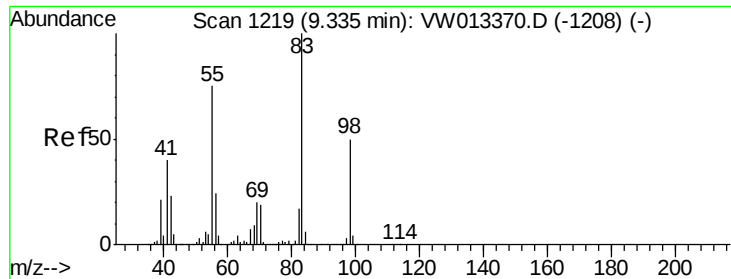
MMDadoda
 10/4/2019 12:07:35 PM



#35
 Dibromofluoromethane
 Concen: 53.371 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013417.D
 Acq: 03 Oct 2019 14:27

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	106607		
111	103.7		81.9	122.9
192	23.9		19.1	28.7





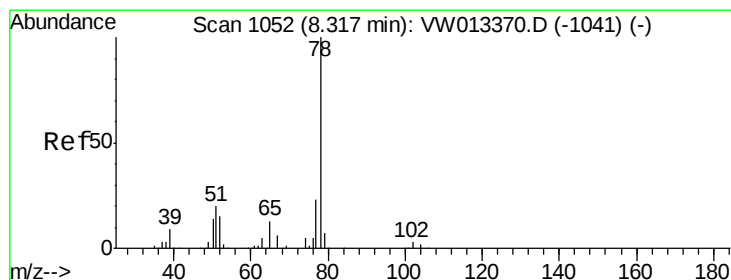
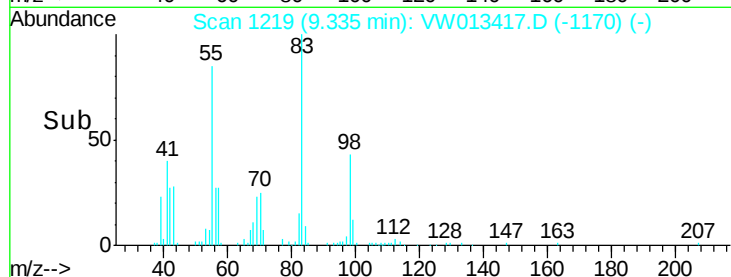
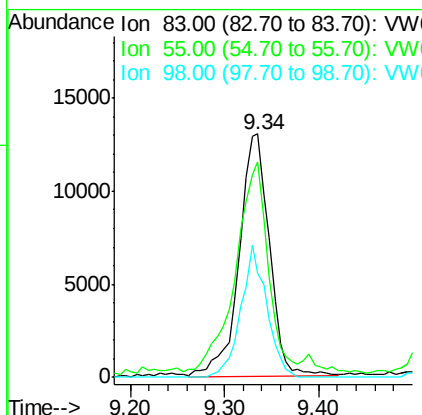
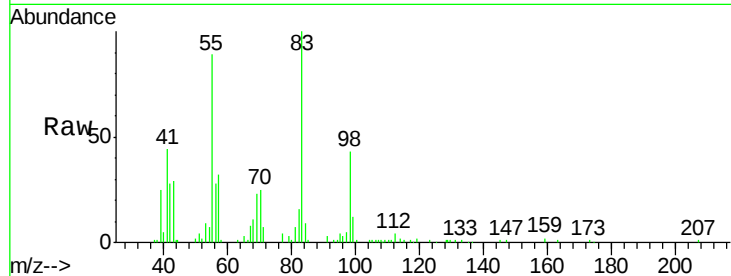
#39
Methvlcvclohexane
Concen: 6.251 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Instrument :
MSVOA_W
ClientSampleId :
30464-67

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	86.6	60.4	90.6	
98	43.3	40.0	60.0	

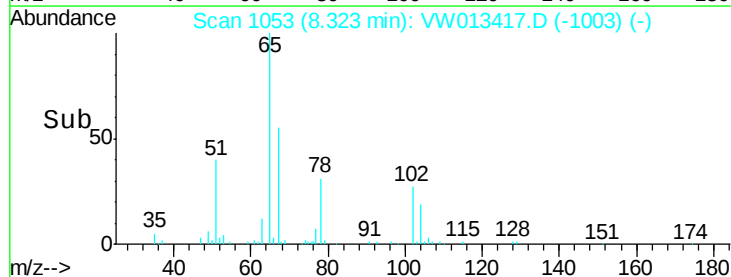
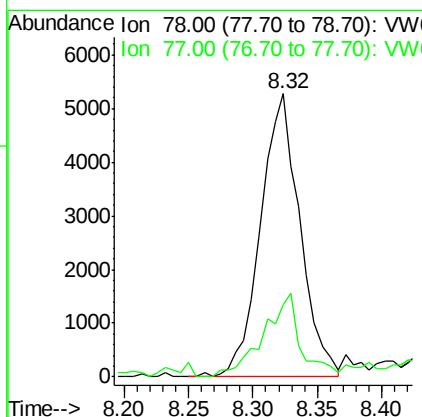
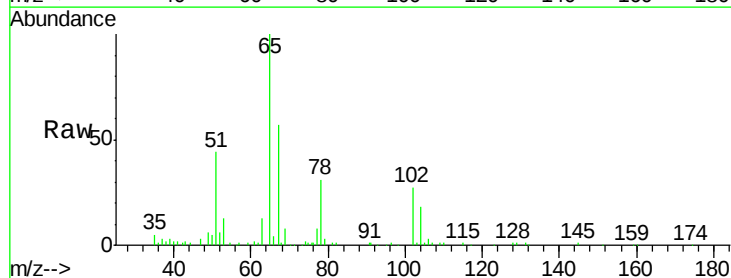
Manual Integrations
APPROVED

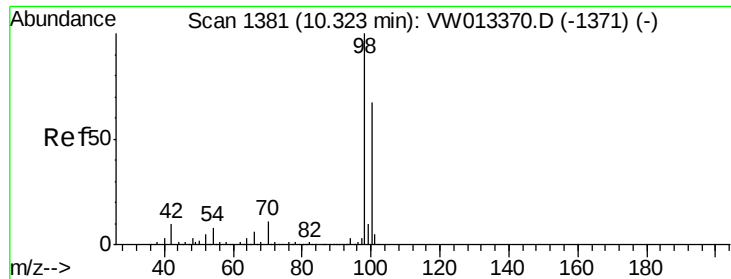
MMDadoda
10/4/2019 12:07:35 PM



#40
Benzene
Concen: 1.119 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.2	19.1	28.7	





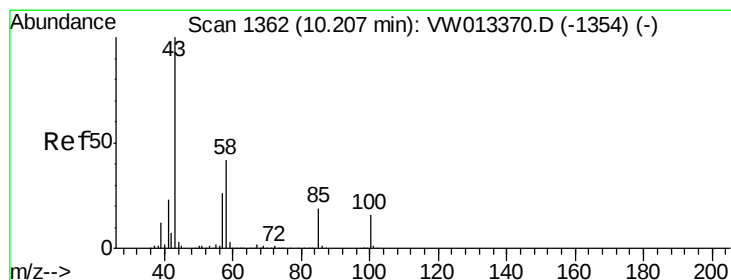
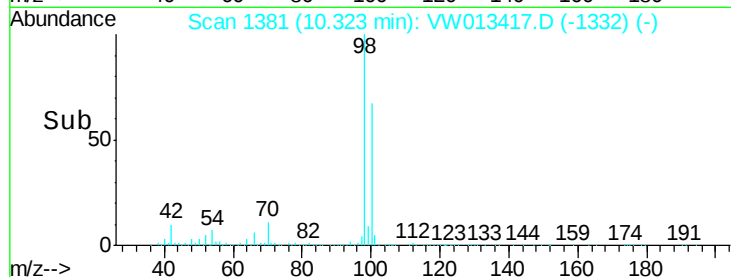
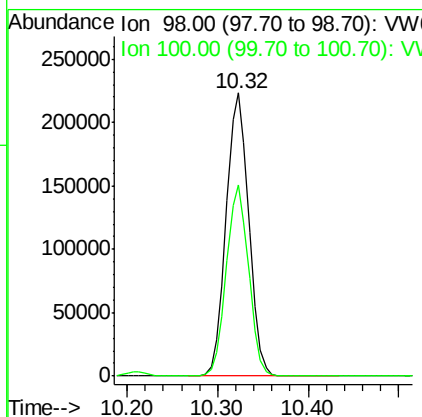
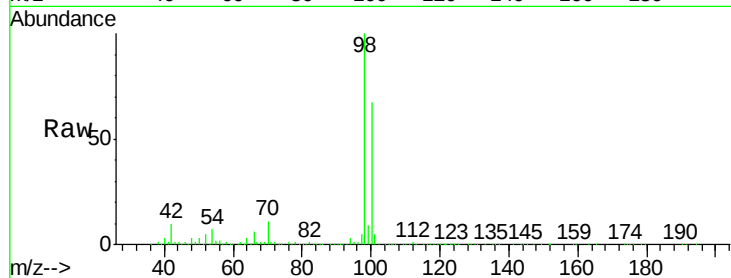
#50
Toluene-d8
Concen: 46.746 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Instrument :
MSVOA_W
ClientSampleId :
30464-67

Tot Ion: 98 Resp: 387480
Ion Ratio Lower Upper
98 100
100 66.4 52.9 79.3

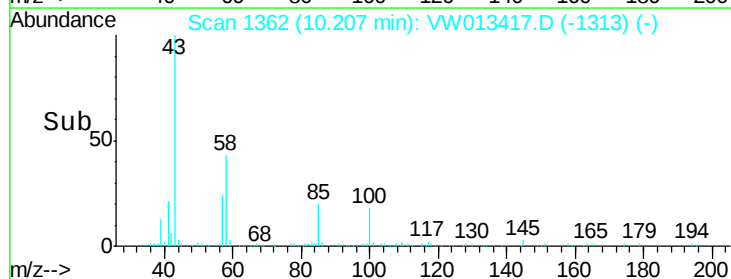
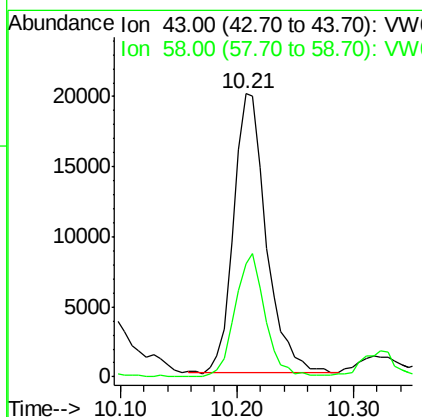
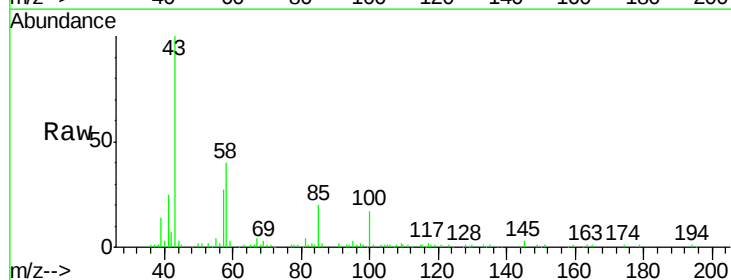
Manual Integrations
APPROVED

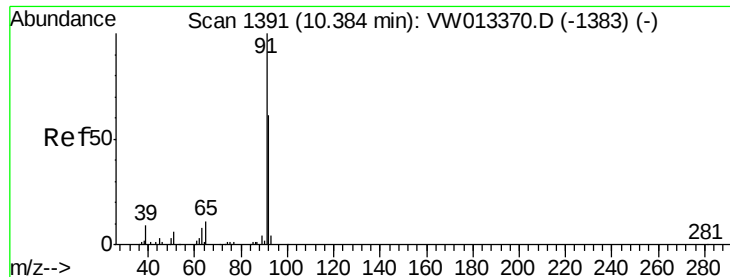
MMDadoda
10/4/2019 12:07:35 PM



#51
4-Methyl-2-Pentanone
Concen: 25.230 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Tgt Ion: 43 Resp: 38931
Ion Ratio Lower Upper
43 100
58 40.5 31.7 47.5





#52

Toluene

Concen: 89.238 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013417.D

Acq: 03 Oct 2019 14:27

Instrument :

MSVOA_W

ClientSampleId :

30464-67

Tot Ion: 92 Resp: 576094

Ion Ratio Lower Upper

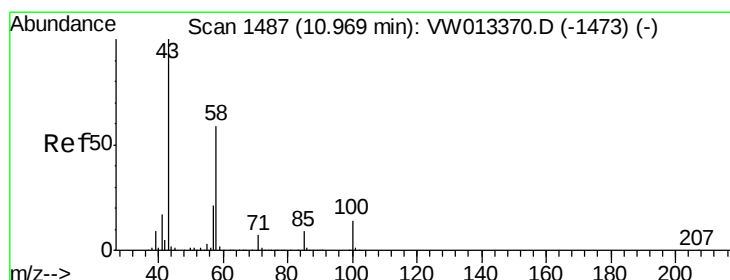
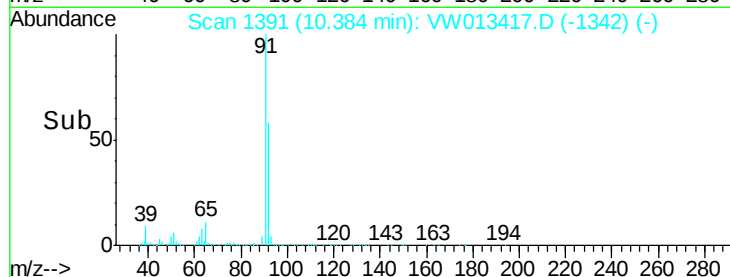
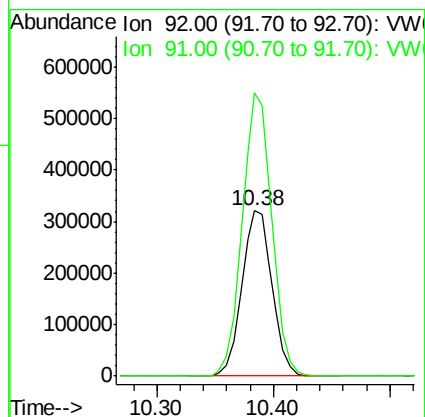
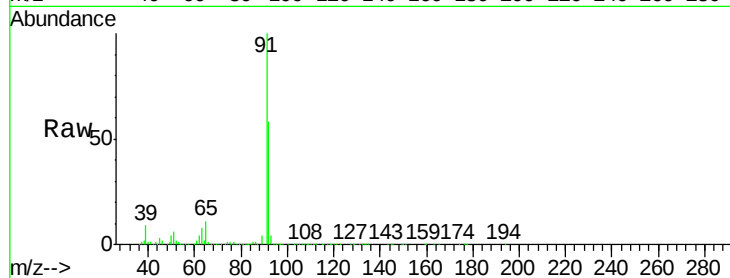
92 100

91 167.8 135.7 203.5

Manual Integrations
APPROVED

MMDadoda

10/4/2019 12:07:35 PM



#59

2-Hexanone

Concen: 5.149 ug/l m

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013417.D

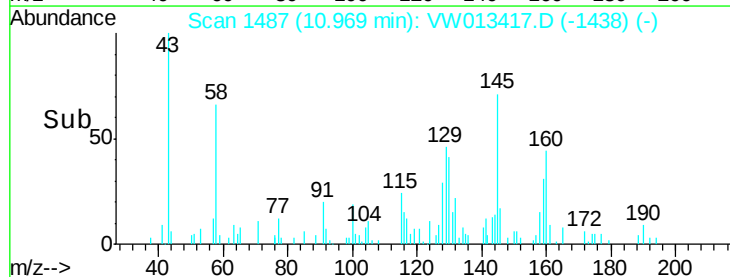
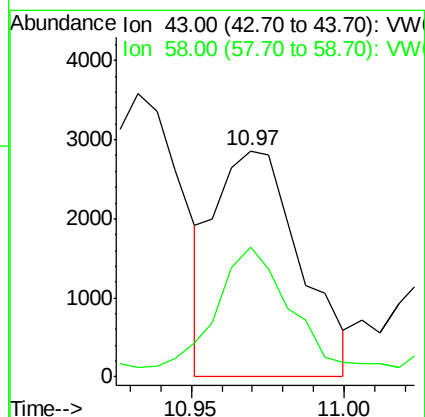
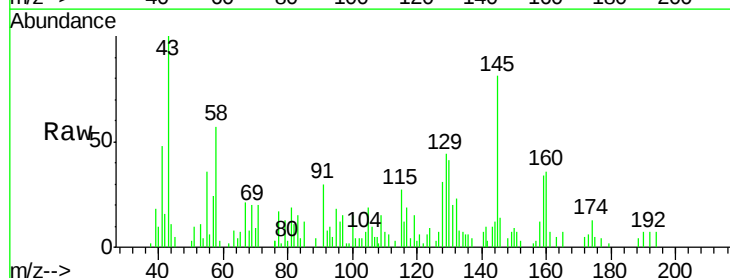
Acq: 03 Oct 2019 14:27

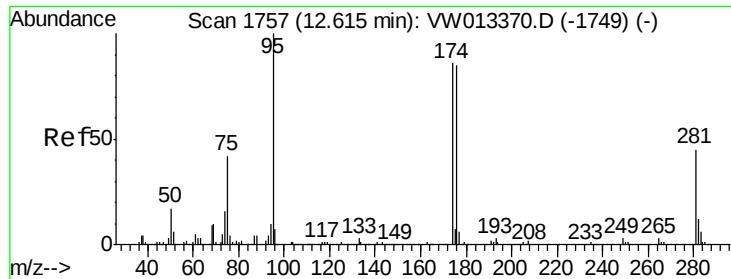
Tgt Ion: 43 Resp: 5507

Ion Ratio Lower Upper

43 100

58 0.0 28.1 84.2#





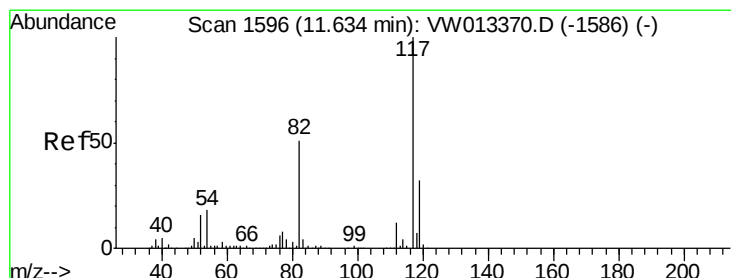
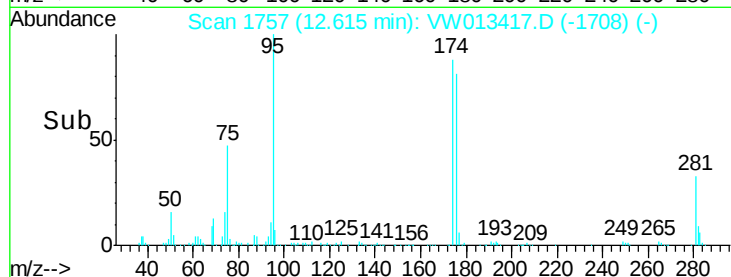
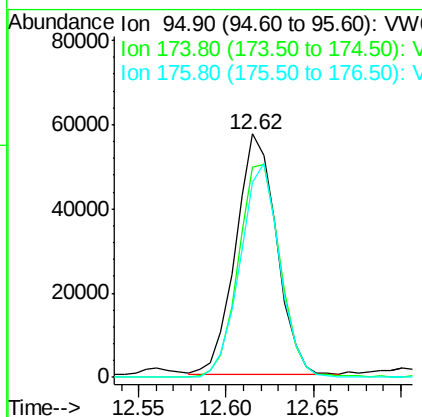
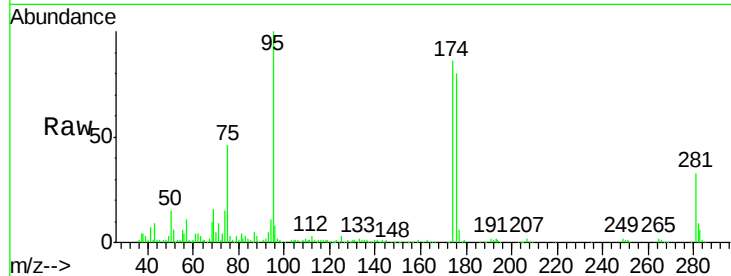
#62
4-Bromofluorobenzene
Concen: 33.507 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Instrument :
MSVOA_W
ClientSampled :
30464-67

Tot Ion	Ratio	Resp	Lower	Upper
95	100	92748		
174	90.1	0.0	178.4	
176	86.3	0.0	172.2	

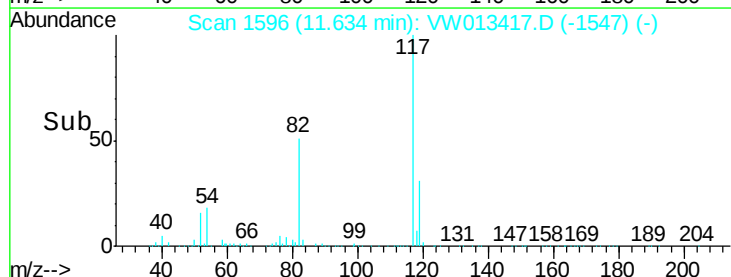
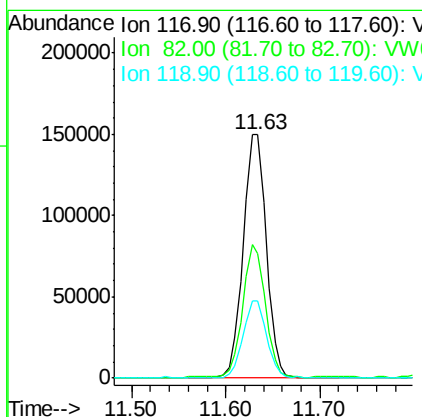
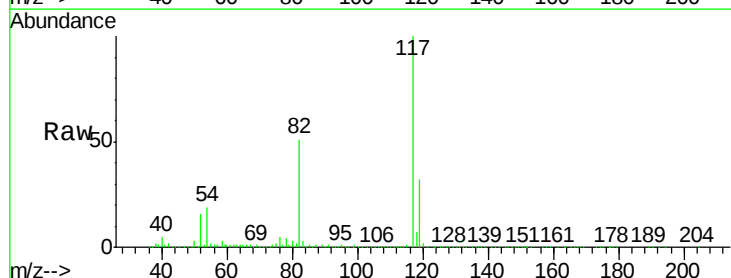
Manual Integrations
APPROVED

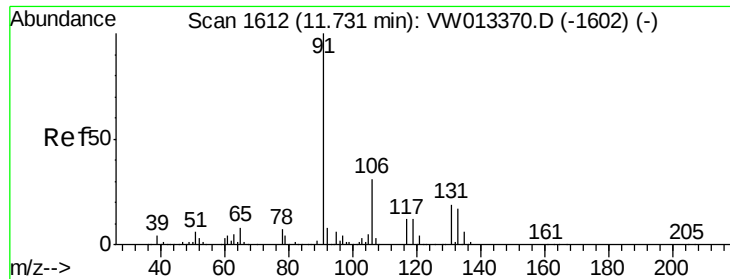
MMDadoda
10/4/2019 12:07:35 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	254570		
82	50.6	45.9	68.9	
119	31.6	26.2	39.2	





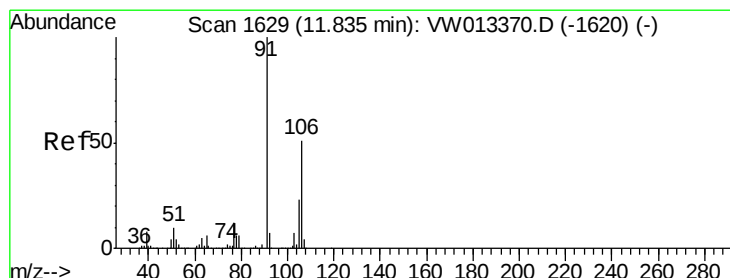
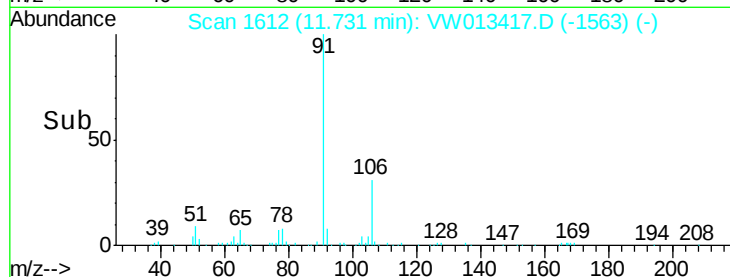
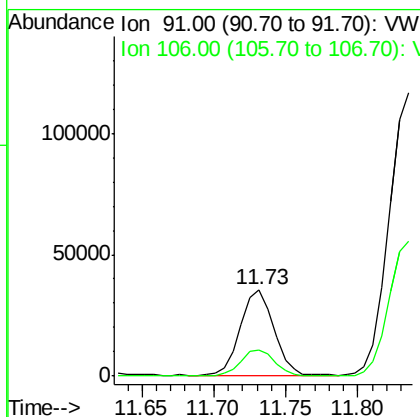
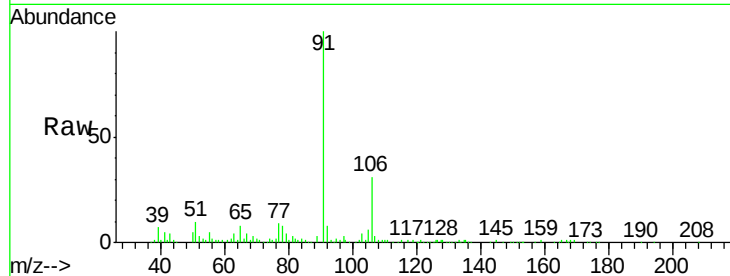
#67
Ethyl Benzene
Concen: 6.038 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Instrument :
MSVOA_W
ClientSampled :
30464-67

Tot Ion: 91 Resp: 56441
Ion Ratio Lower Upper
91 100
106 30.9 24.9 37.3

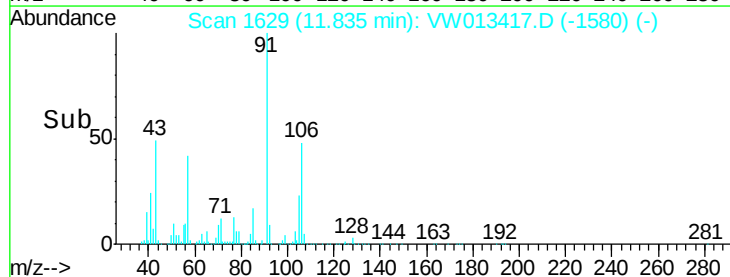
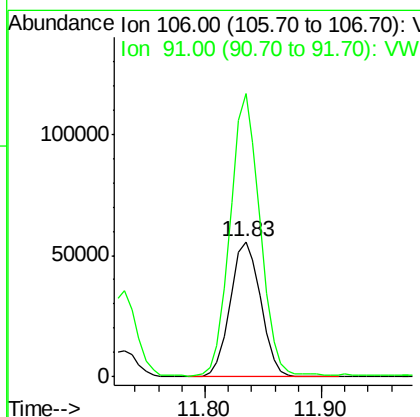
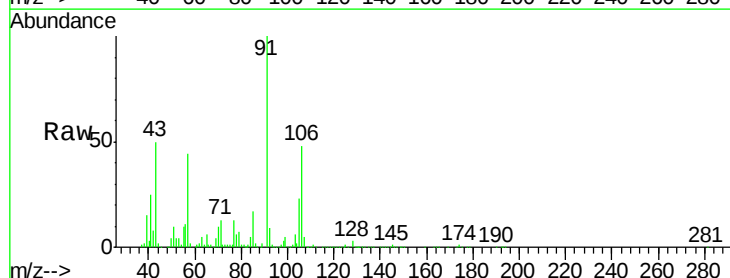
Manual Integrations
APPROVED

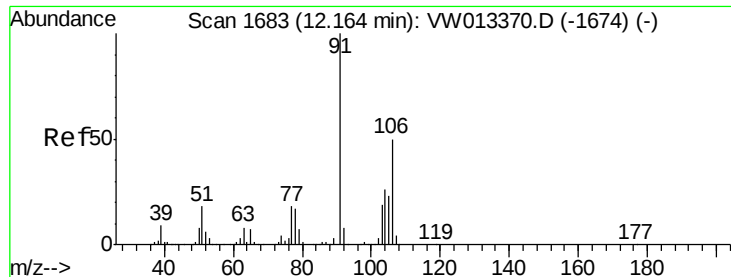
MMDadoda
10/4/2019 12:07:35 PM



#68
m/p-Xylenes
Concen: 28.055 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Tgt Ion: 106 Resp: 101221
Ion Ratio Lower Upper
106 100
91 203.6 157.9 236.9





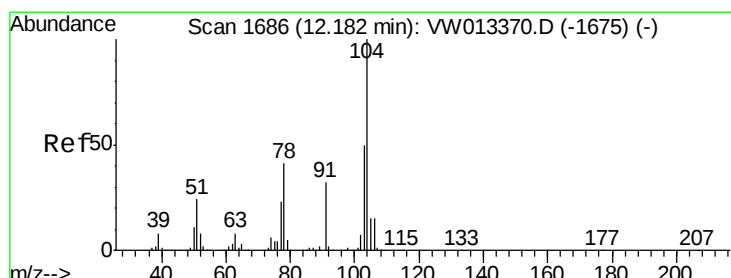
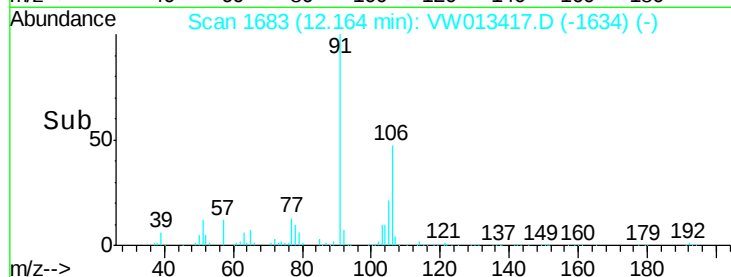
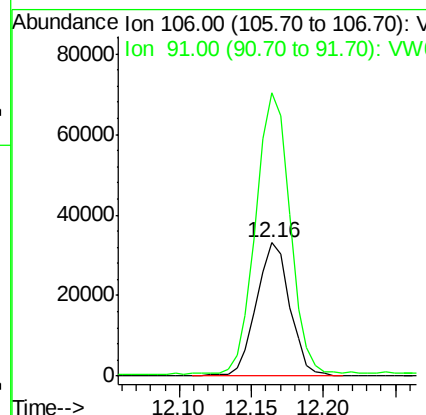
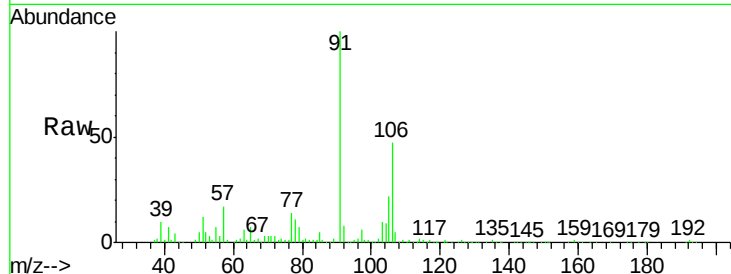
#69
o-Xylene
Concen: 15.810 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Instrument :
MSVOA_W
ClientSampled :
30464-67

Tot Ion	Ratio	Lower	Upper
106	100		
91	218.9	106.5	319.5

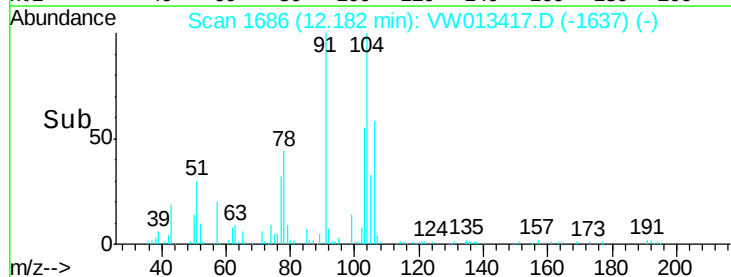
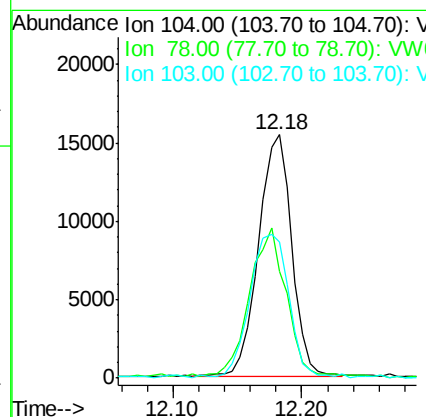
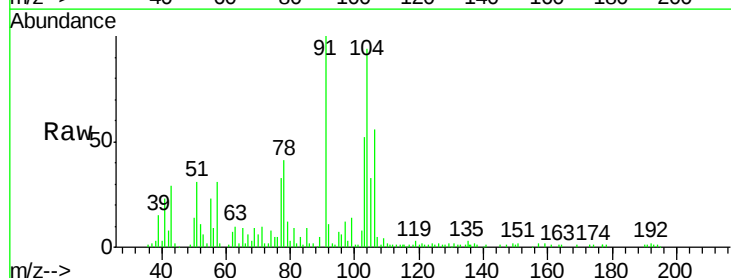
Manual Integrations
APPROVED

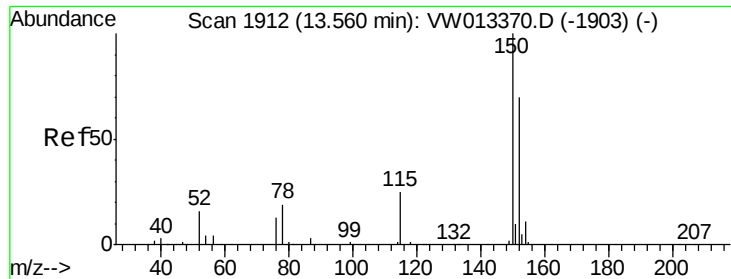
MMDadoda
10/4/2019 12:07:35 PM



#70
Styrene
Concen: 4.817 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Tgt Ion	Ratio	Lower	Upper
104	100		
78	69.3	38.4	57.6#
103	70.5	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: VW013417.D

Acq: 03 Oct 2019 14:27

Instrument :

MSVOA_W

ClientSampleId :

30464-67

Tot Ion:152 Resp: 60786

Ion Ratio Lower Upper

152 100

115 61.5 27.3 81.9

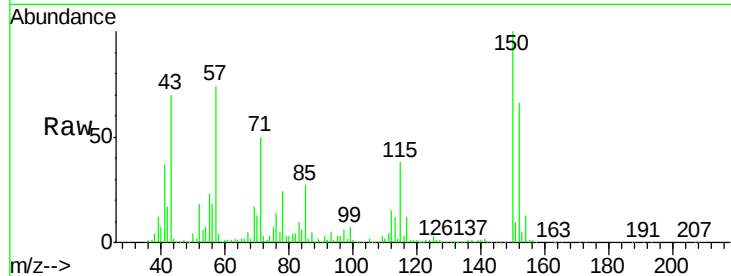
150 155.4 0.0 349.0

Manual Integrations

APPROVED

MMDadoda

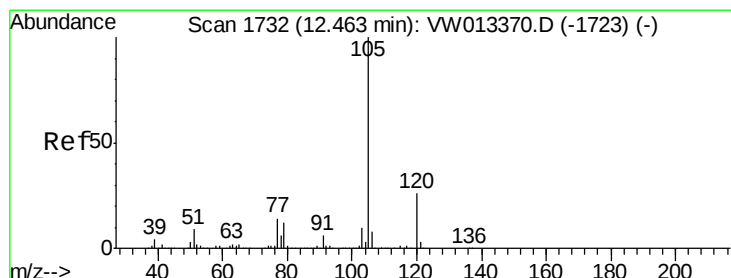
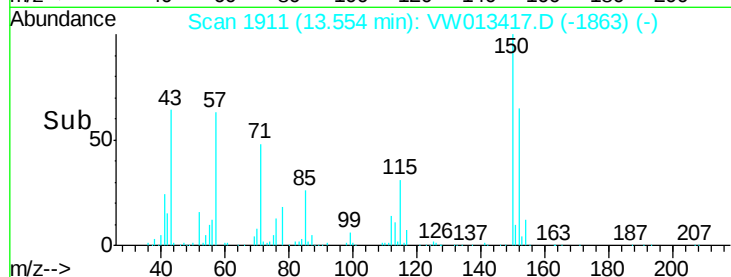
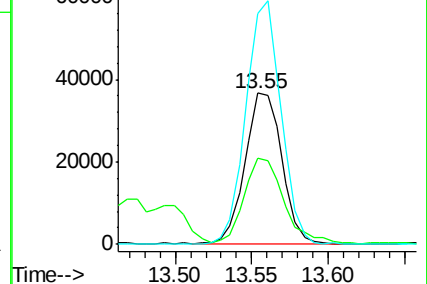
10/4/2019 12:07:35 PM



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: 6.680 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW013417.D

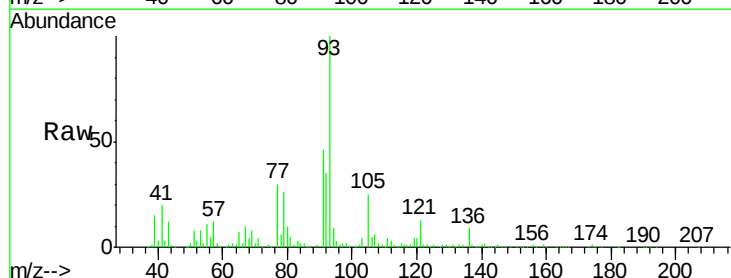
Acq: 03 Oct 2019 14:27

Tgt Ion:105 Resp: 29702

Ion Ratio Lower Upper

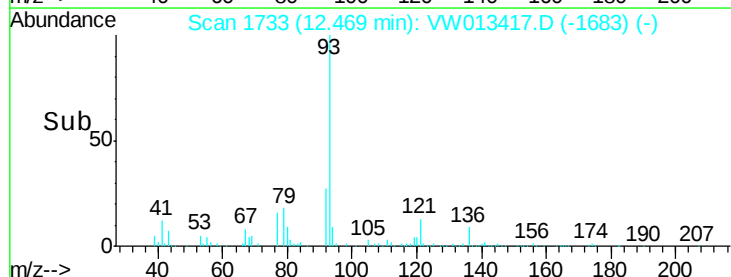
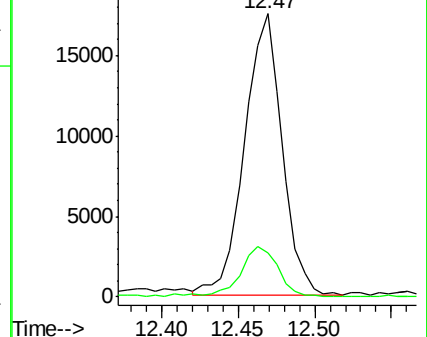
105 100

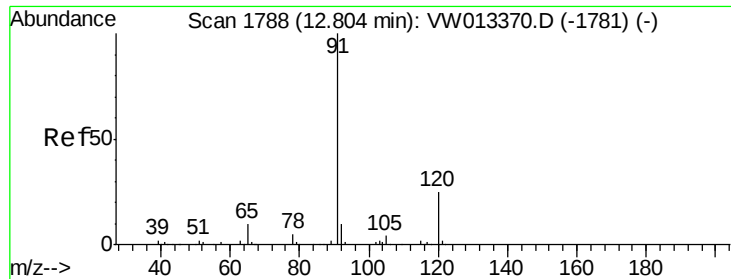
120 18.2 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





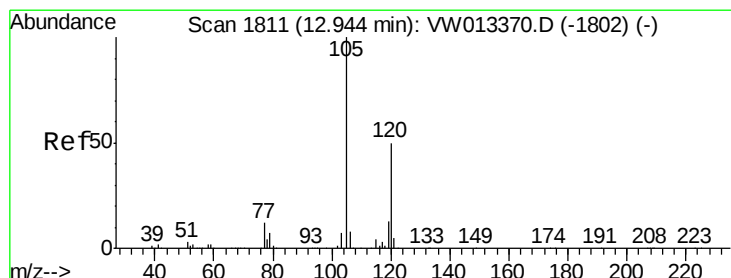
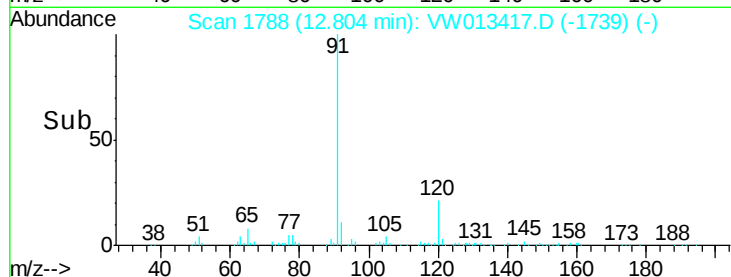
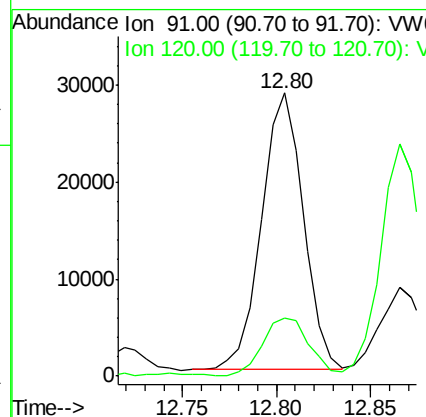
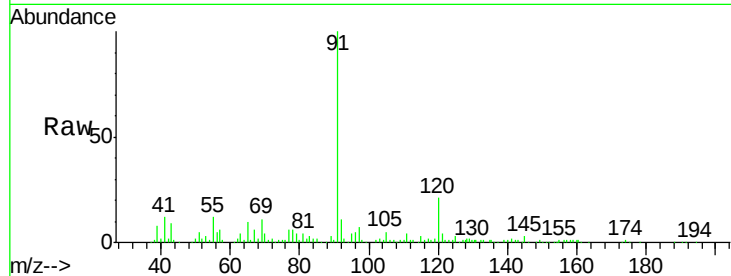
#78
n-propylbenzene
Concen: 8.519 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Instrument :
MSVOA_W
ClientSampleId :
30464-67

Tot Ion: 91 Resp: 43572
Ion Ratio Lower Upper
91 100
120 23.8 11.7 35.1

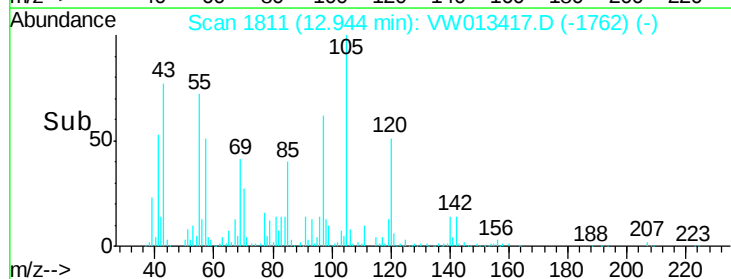
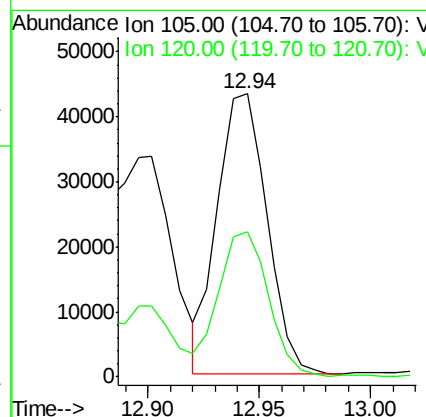
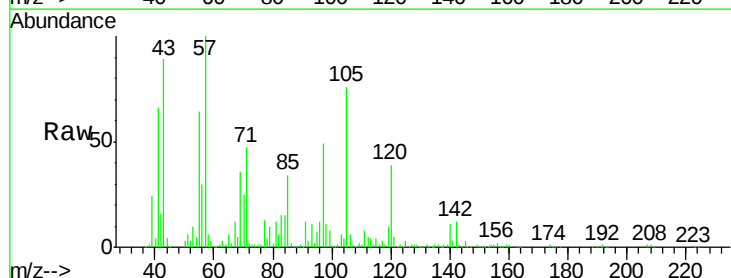
Manual Integrations
APPROVED

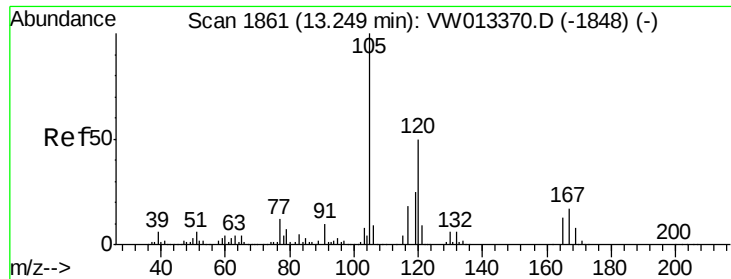
MMDadoda
10/4/2019 12:07:35 PM



#80
1,3,5-Trimethylbenzene
Concen: 18.011 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. 0.00 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Tgt Ion: 105 Resp: 66525
Ion Ratio Lower Upper
105 100
120 51.5 24.9 74.8





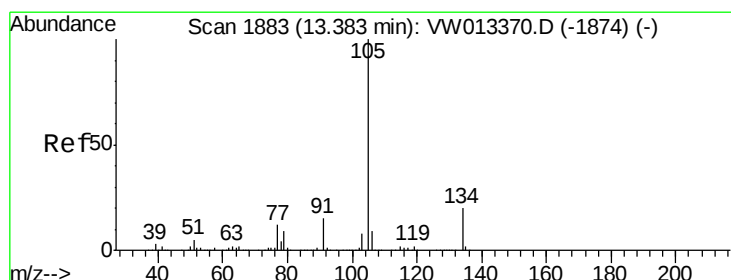
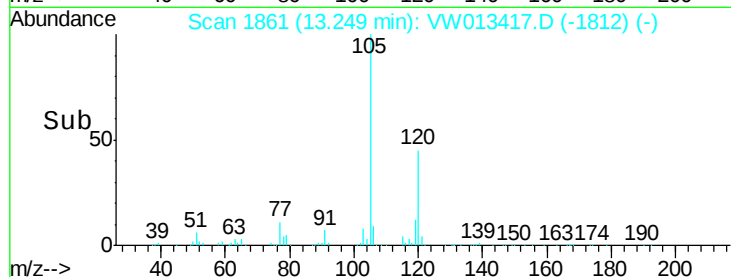
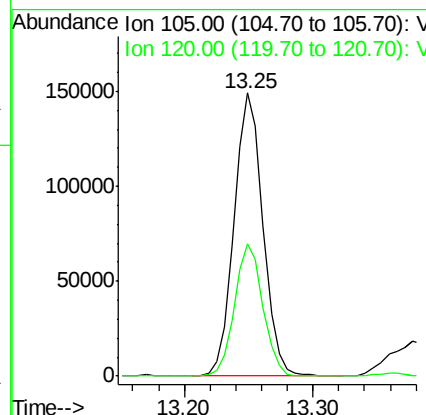
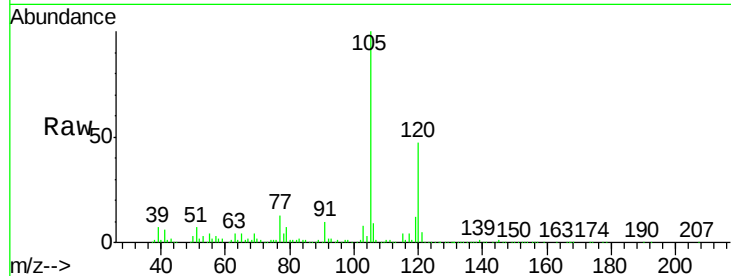
#84
 1,2,4-Trimethylbenzene
 Concen: 62.935 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW013417.D
 Acq: 03 Oct 2019 14:27

Instrument :
 MSVOA_W
 ClientSampleId :
 30464-67

Tot Ion:105 Resp: 231084
 Ion Ratio Lower Upper
 105 100
 120 46.0 23.4 70.3

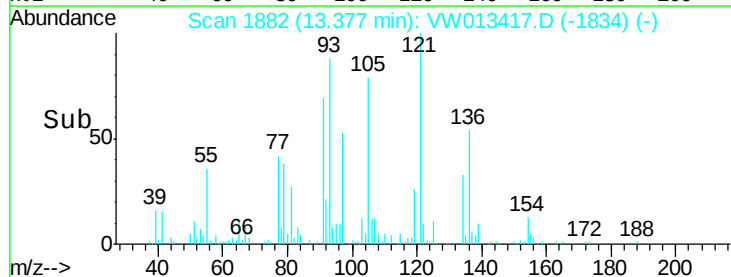
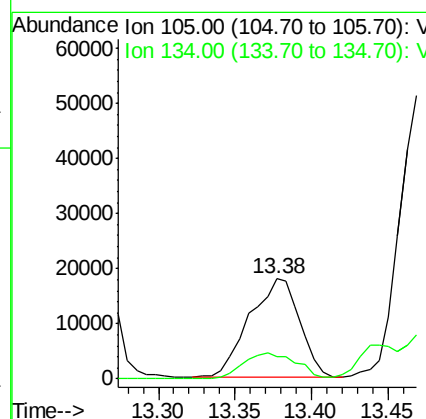
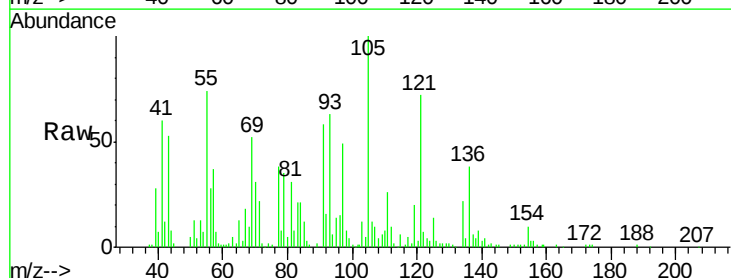
Manual Integrations
 APPROVED

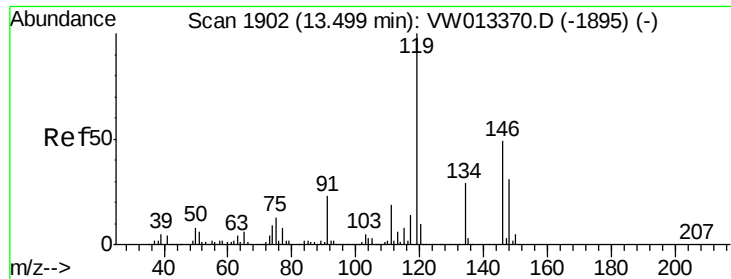
MMDadoda
 10/4/2019 12:07:35 PM



#85
 sec-Butylbenzene
 Concen: 9.181 ug/l
 RT: 13.38 min Scan# 1882
 Delta R.T. -0.01 min
 Lab File: VW013417.D
 Acq: 03 Oct 2019 14:27

Tgt Ion:105 Resp: 40839
 Ion Ratio Lower Upper
 105 100
 134 28.8 10.3 30.8





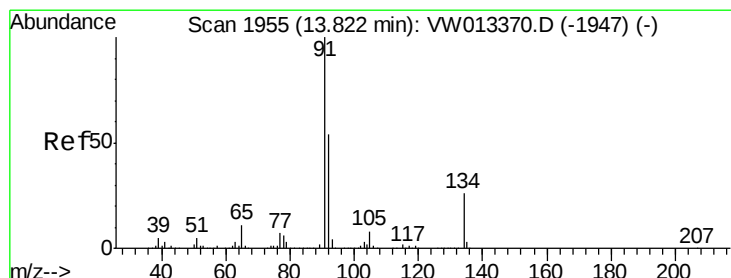
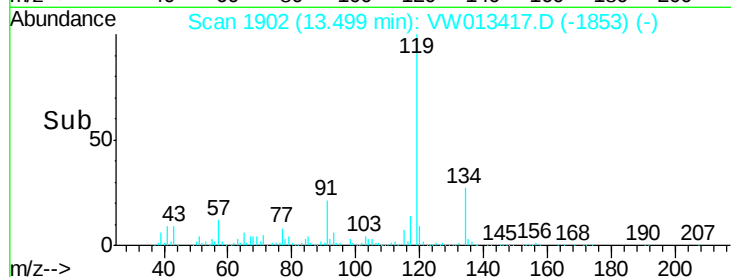
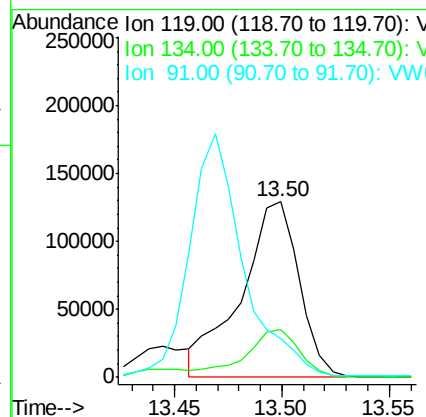
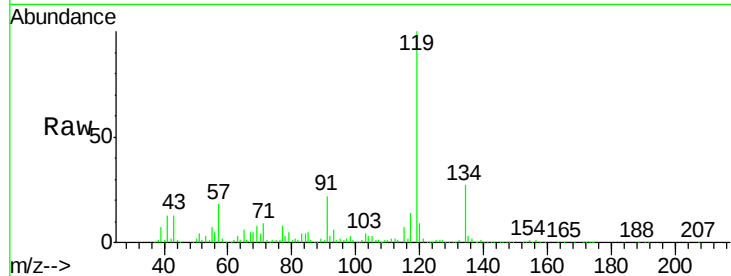
#86
 p-Isopropyltoluene
 Concen: 58.950 ug/l m
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013417.D
 Acq: 03 Oct 2019 14:27

Instrument :
 MSVOA_W
 ClientSampleId :
 30464-67

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.3	39.8
91	0.0	10.8	32.4#

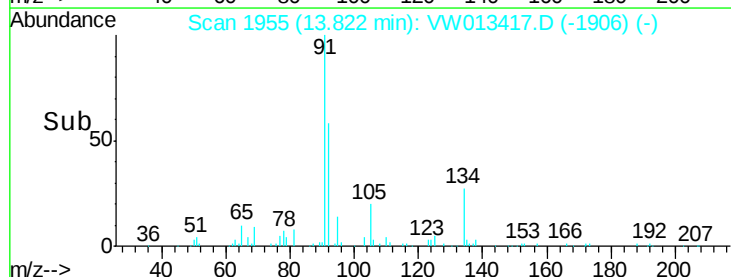
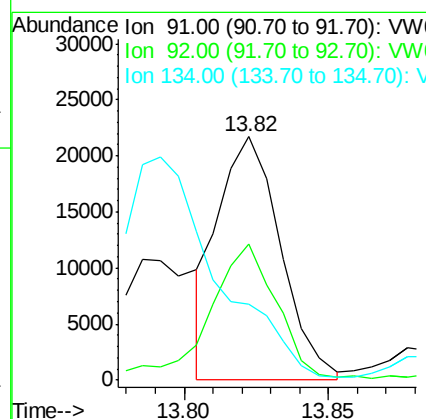
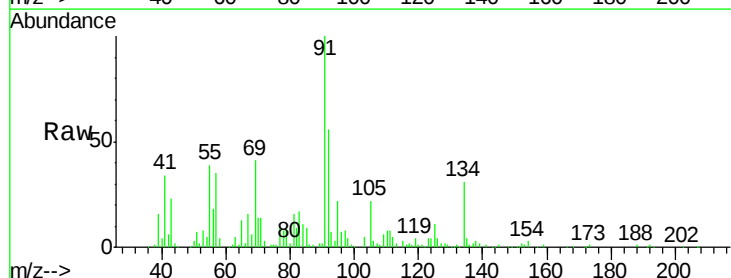
Manual Integrations
 APPROVED

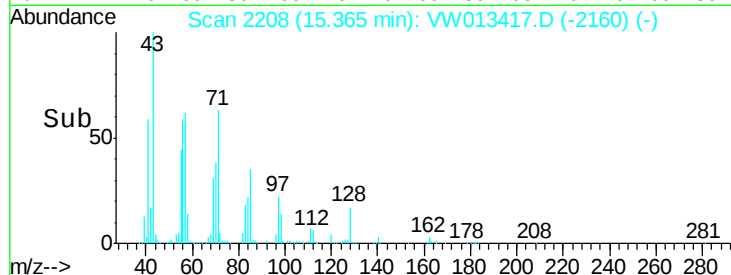
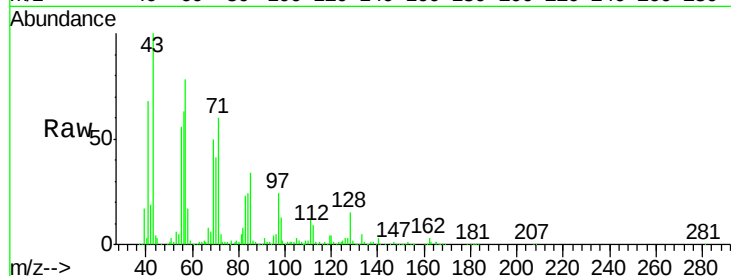
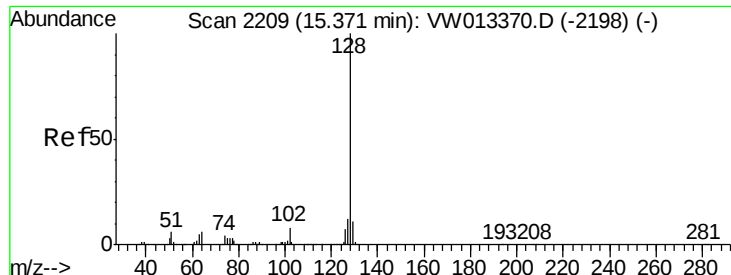
MMDadoda
 10/4/2019 12:07:35 PM



#89
 n-Butylbenzene
 Concen: 8.829 ug/l m
 RT: 13.82 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW013417.D
 Acq: 03 Oct 2019 14:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	85.7	27.6	82.8#
134	42.2	13.7	41.1#





#95
Naphthalene
Concen: 14.886 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW013417.D
Acq: 03 Oct 2019 14:27

Instrument :
MSVOA_W
ClientSampleId :
30464-67

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	19.8		10.6	15.8#
129	11.2		8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/4/2019 12:07:35 PM

