

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092419\
 Data File : VW013276.D
 Acq On : 24 Sep 2019 15:12
 Operator : SY/VA
 Sample : K5008-02
 Misc : 5.14G/5ML/MSVOA W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-2

Manual Integrations
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MMDadoda
 9/26/2019 12:37:37 AM

Quant Time: Sep 25 07:57:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.94	168	360865	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	541653	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	434371	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	169257	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	148361	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
35) Dibromofluoromethane	7.88	113	148058	49.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.40%	
50) Toluene-d8	10.32	98	640791	51.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.80%	
62) 4-Bromofluorobenzene	12.62	95	200638	47.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.22%	

Target Compounds

					Qvalue	
16) Acetone	4.14	43	86882	130.812	ug/l	96
17) Carbon Disulfide	4.36	76	11117	1.147	ug/l #	94
31) Cyclohexane	7.95	56	149421	23.406	ug/l	96
39) Methylcyclohexane	9.33	83	291832	43.285	ug/l	97
40) Benzene	8.32	78	29059	1.986	ug/l	99
52) Toluene	10.38	92	13121	1.399	ug/l	92
67) Ethyl Benzene	11.73	91	86248	5.248	ug/l	99
68) m/p-Xylenes	11.83	106	47046	7.512	ug/l	97
69) o-Xylene	12.16	106	33289	5.717	ug/l	99
73) Isopropylbenzene	12.46	105	41080	3.286	ug/l	94
78) n-propylbenzene	12.80	91	78059	5.334	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	17459	1.661	ug/l	87
83) tert-Butylbenzene	13.21	119	23660	2.565	ug/l	93
84) 1,2,4-Trimethylbenzene	13.25	105	82148	7.855	ug/l	100
85) sec-Butylbenzene	13.38	105	52170	4.102	ug/l	81
86) p-Isopropyltoluene	13.50	119	48024	4.071	ug/l	92
89) n-Butylbenzene	13.82	91	39958m	3.710	ug/l	

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

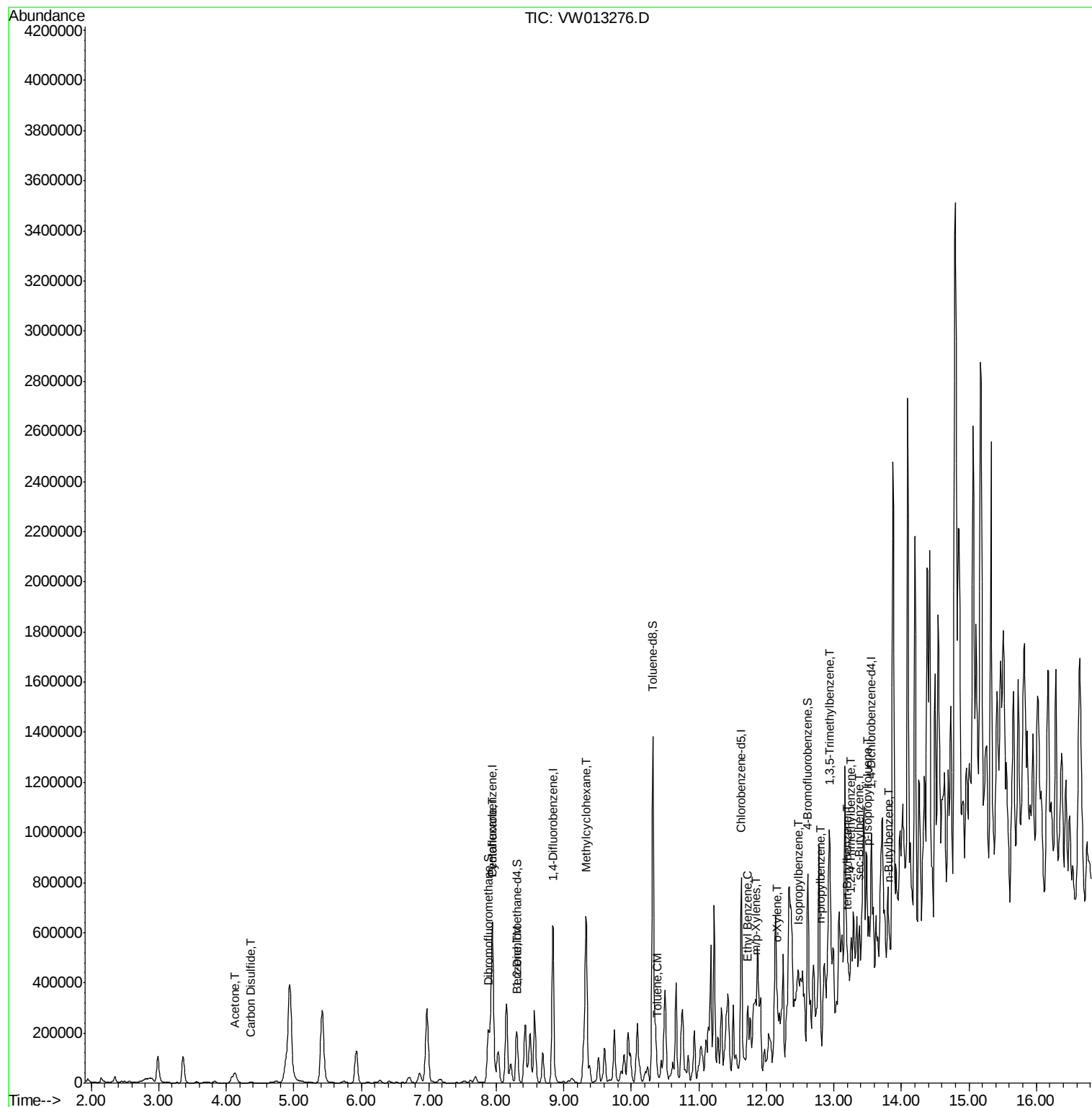
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW092419\
Data File : VW013276.D
Acq On : 24 Sep 2019 15:12
Operator : SY/VA
Sample : K5008-02
Misc : 5.14G/5ML/MSVOA W/SOIL
ALS Vial : 11 Sample Multiplier: 1

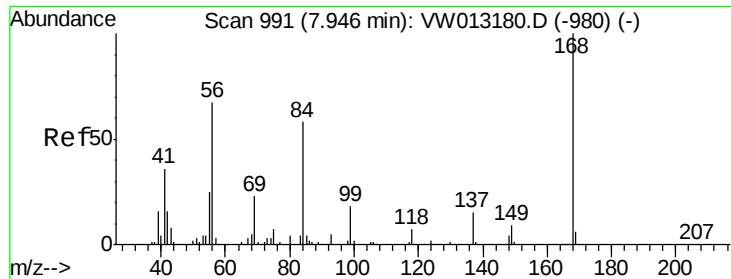
Instrument :
MSVOA_W
ClientSampleId :
SB-2

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9/26/2019 12:37:37 AM

Quant Time: Sep 25 07:57:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 20 15:58:08 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

Instrument :

MSVOA_W

ClientSampled :

SB-2

Tot Ion:168 Resp: 360865

Ion Ratio Lower Upper

168 100

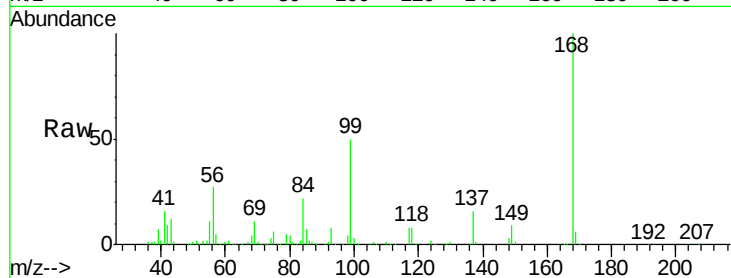
99 49.9 40.2 60.4

Manual Integrations

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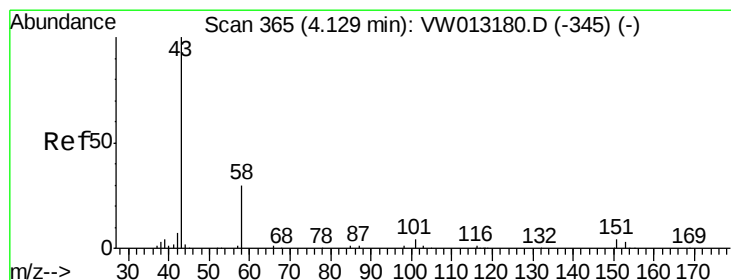
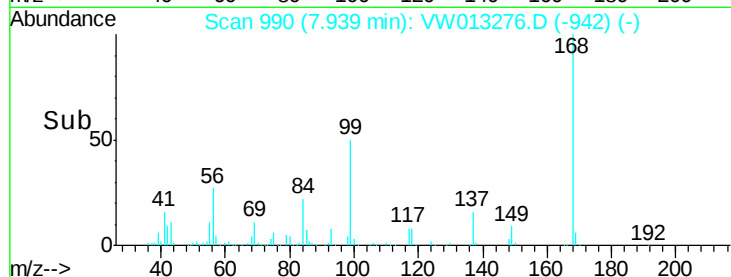
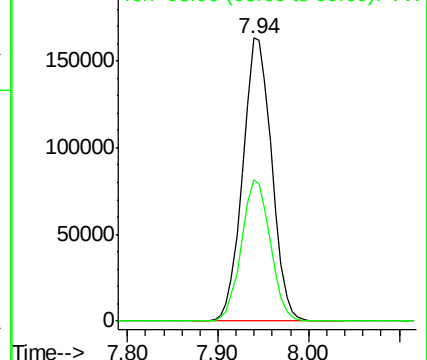
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 130.812 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW013276.D

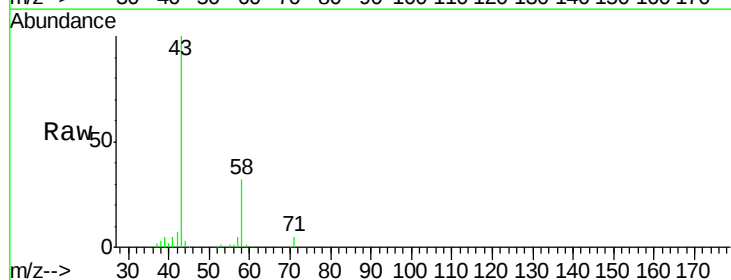
Acq: 24 Sep 2019 15:12

Tgt Ion: 43 Resp: 86882

Ion Ratio Lower Upper

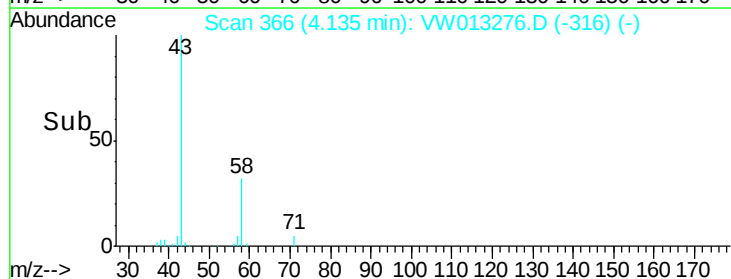
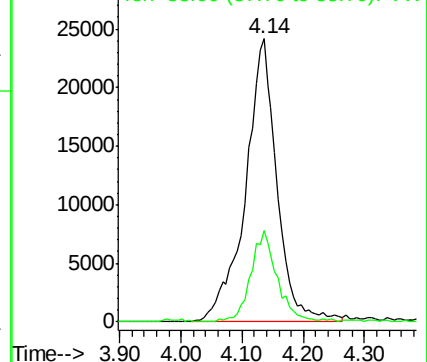
43 100

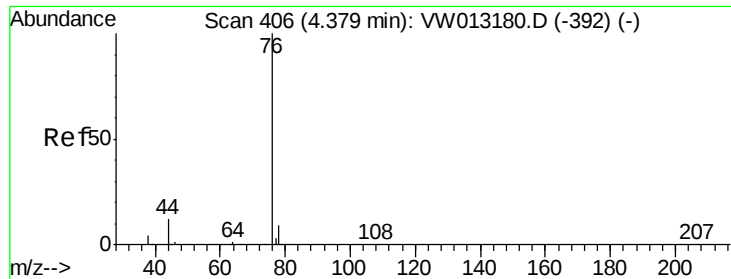
58 32.2 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 1.147 ug/l

RT: 4.36 min Scan# 403

Delta R.T. -0.02 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

SB-2

Tot Ion: 76 Resp: 11117

Ion Ratio Lower Upper

76 100

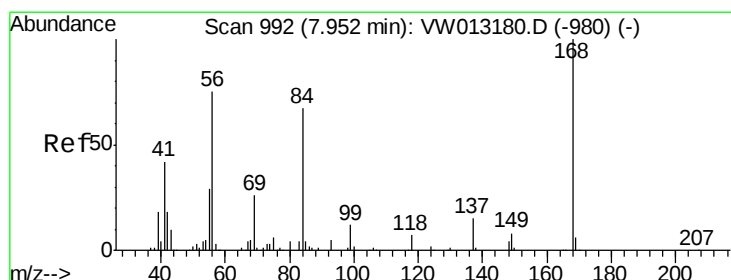
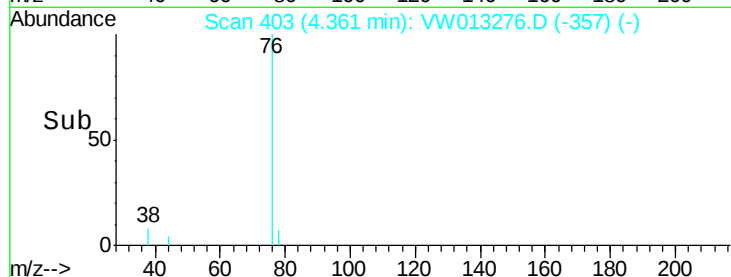
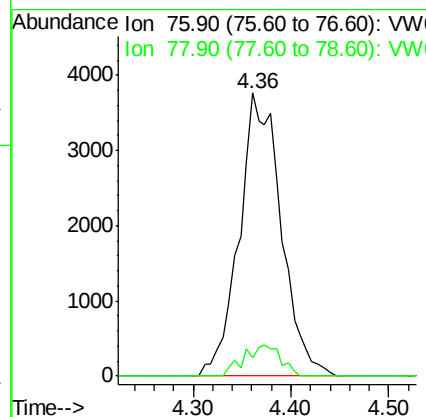
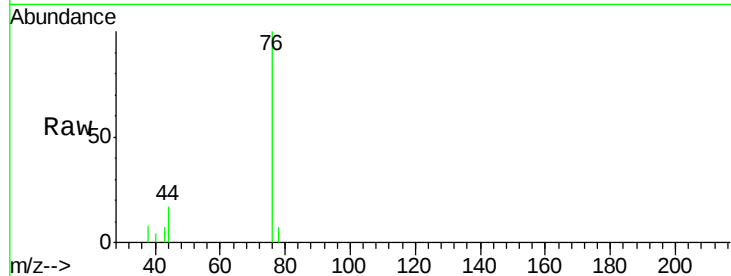
78 6.6 7.0 10.4#

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#31

Cyclohexane

Concen: 23.406 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

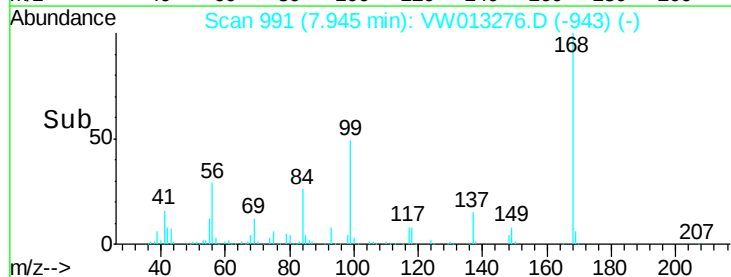
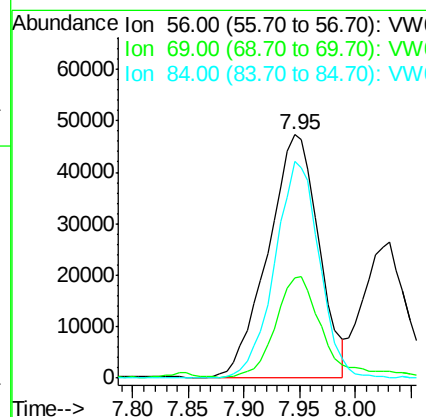
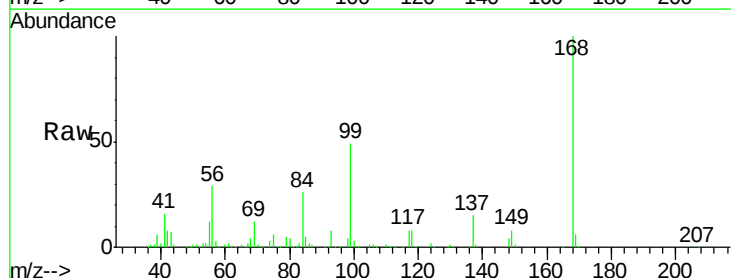
Tgt Ion: 56 Resp: 149421

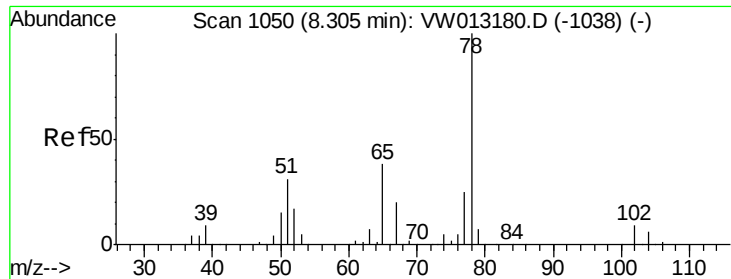
Ion Ratio Lower Upper

56 100

69 40.2 27.2 40.8

84 89.4 70.8 106.2





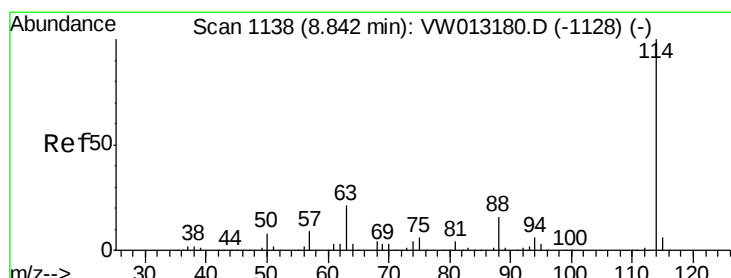
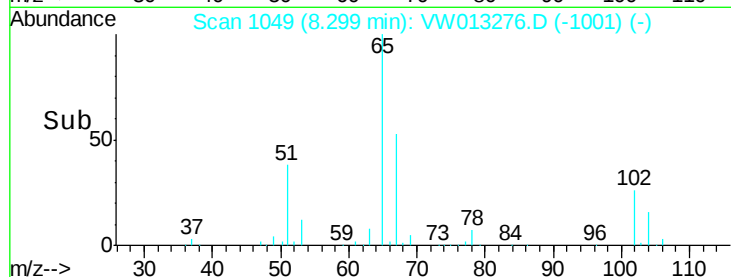
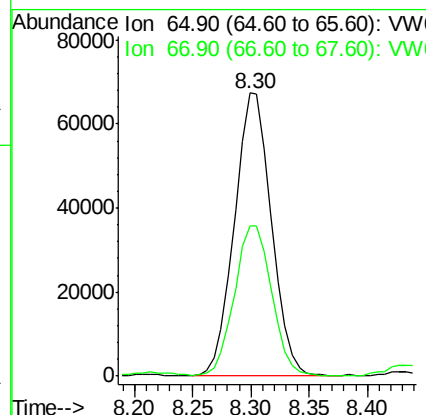
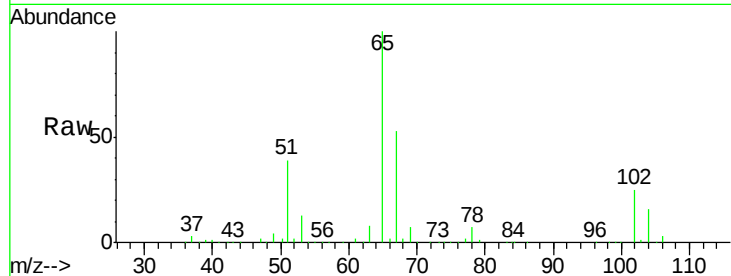
#33
 1,2-Dichloroethane-d4
 Concen: 50.374 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013276.D
 Acq: 24 Sep 2019 15:12

Instrument :
 MSVOA_W
 ClientSampled :
 SB-2

Tot Ion	Ratio	Resp	Lower	Upper
65	100	148361		
67	53.4	0.0	106.2	

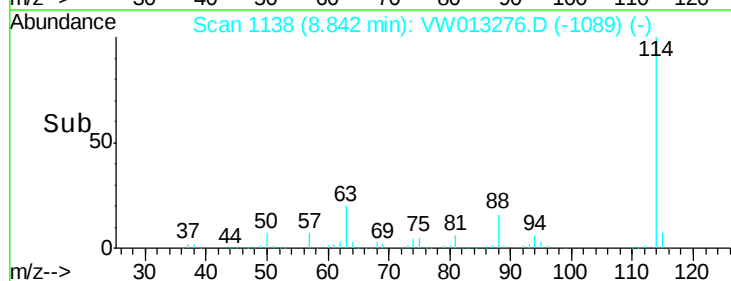
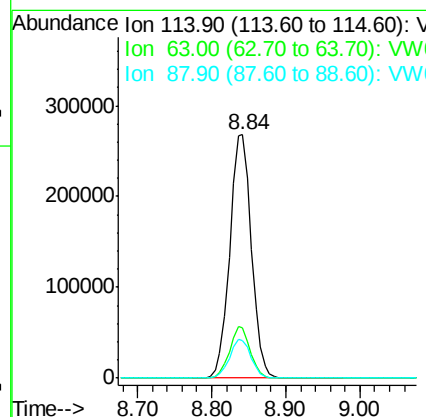
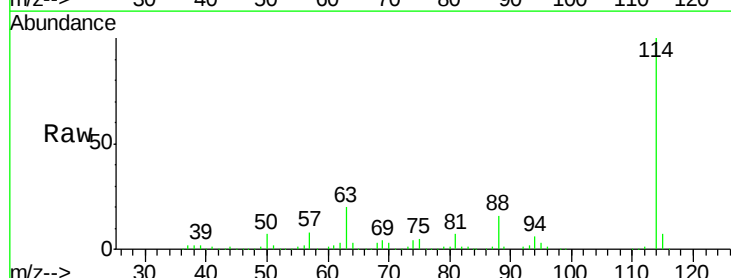
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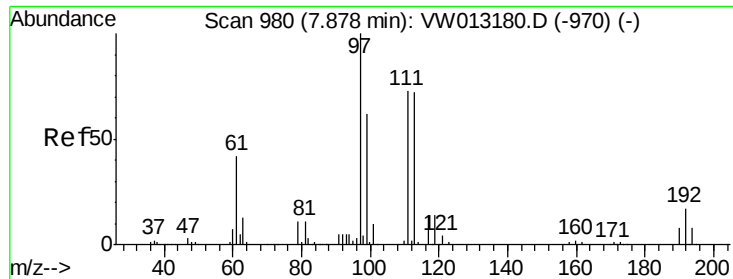
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013276.D
 Acq: 24 Sep 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	541653		
63	20.5	0.0	41.4	
88	15.6	0.0	32.0	





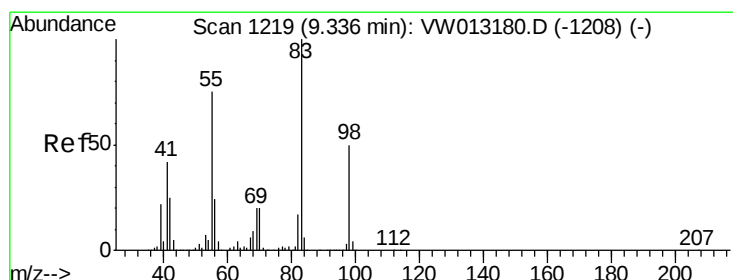
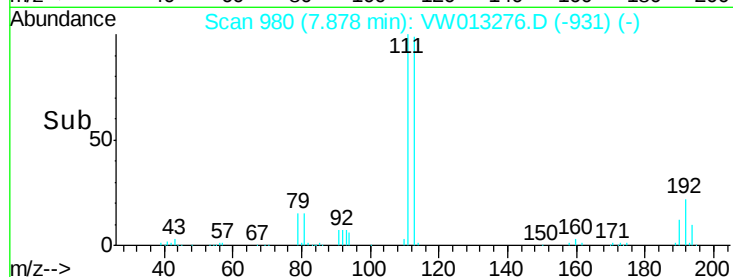
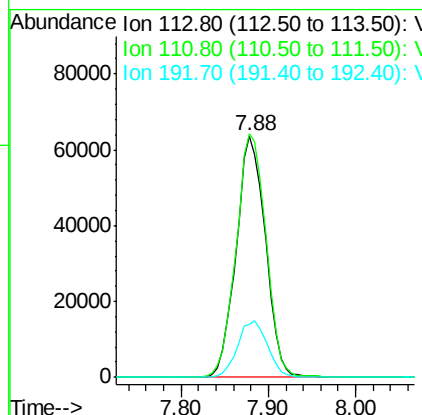
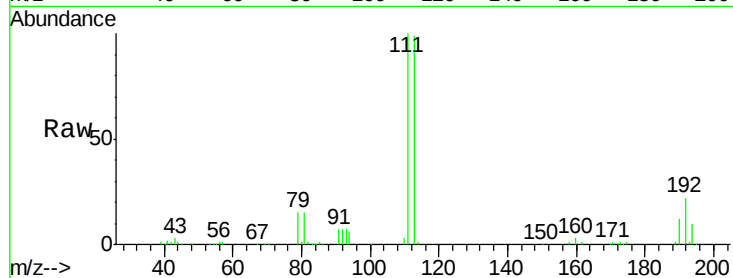
#35
Dibromofluoromethane
Concen: 49.699 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.00 min
Lab File: VW013276.D
Acq: 24 Sep 2019 15:12

Instrument :
MSVOA_W
ClientSampleId :
SB-2

Tot Ion	Ratio	Resp	Lower	Upper
113	100	148058		
111	103.3	81.9	122.9	
192	23.9	19.1	28.7	

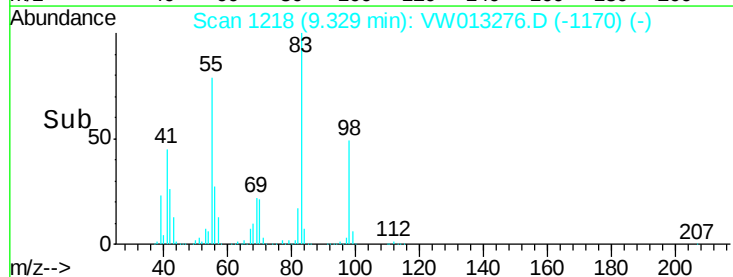
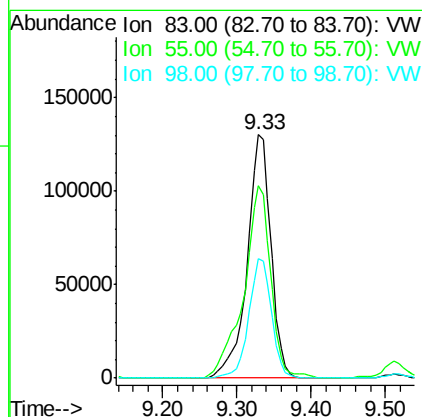
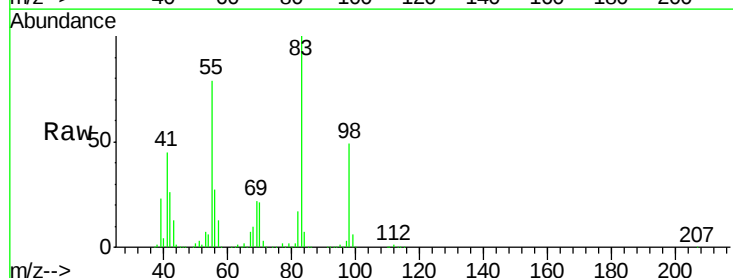
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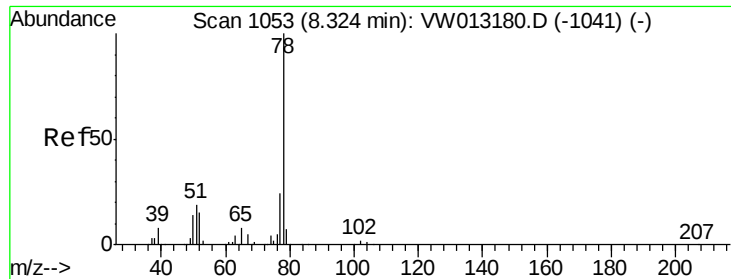
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#39
Methylcyclohexane
Concen: 43.285 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013276.D
Acq: 24 Sep 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	291832		
55	78.8	60.4	90.6	
98	49.1	40.0	60.0	





#40

Benzene

Concen: 1.986 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

Instrument :

MSVOA_W

ClientSampled :

SB-2

Tot Ion: 78 Resp: 29059

Ion Ratio Lower Upper

78 100

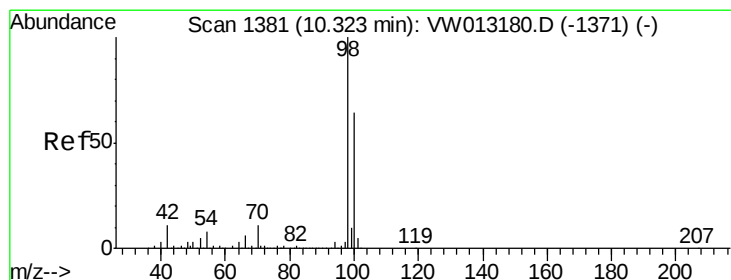
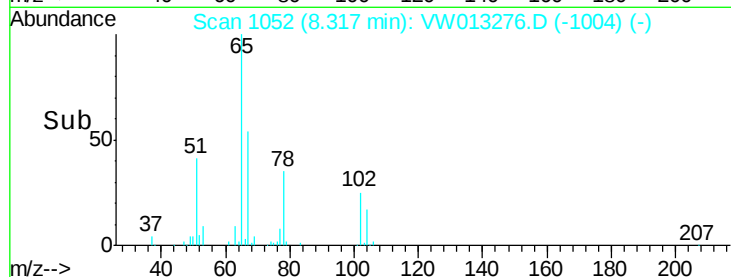
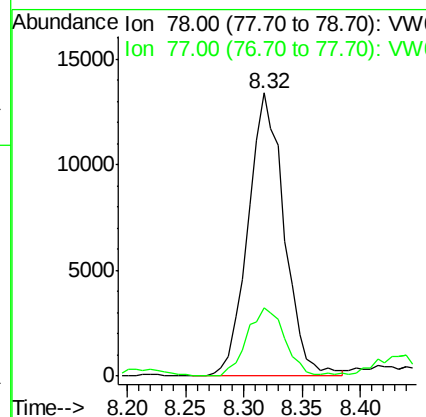
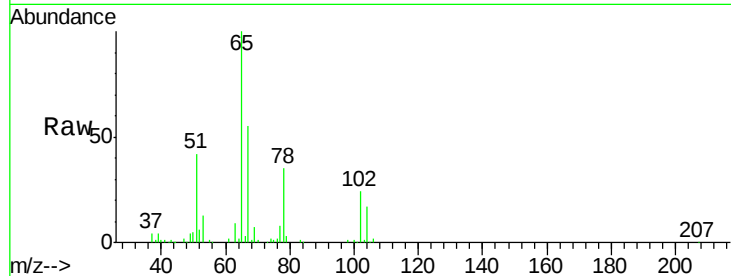
77 24.2 19.1 28.7

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#50

Toluene-d8

Concen: 51.395 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013276.D

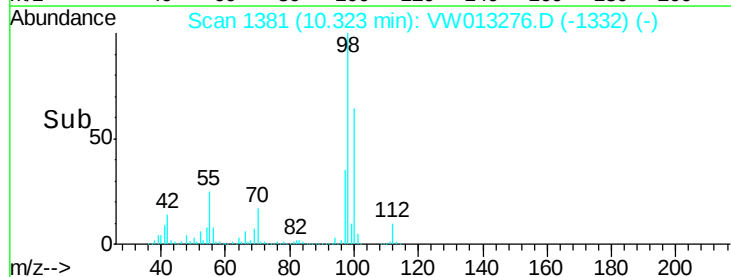
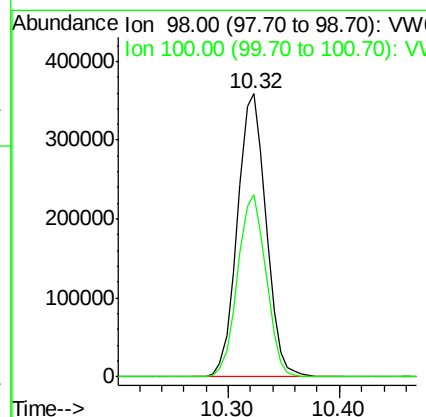
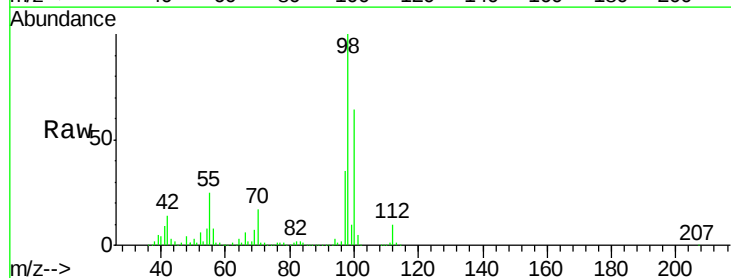
Acq: 24 Sep 2019 15:12

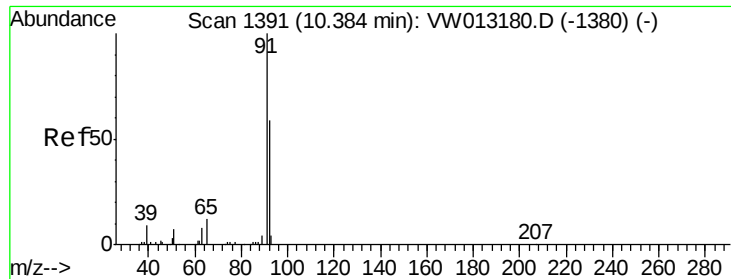
Tgt Ion: 98 Resp: 640791

Ion Ratio Lower Upper

98 100

100 63.6 52.9 79.3





#52

Toluene

Concen: 1.399 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

Instrument :

MSVOA_W

ClientSampled :

SB-2

Tot Ion: 92 Resp: 13121

Ion Ratio Lower Upper

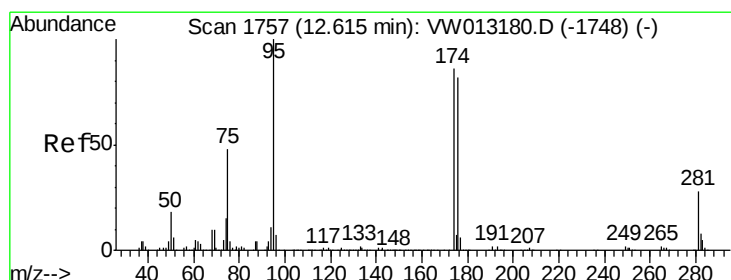
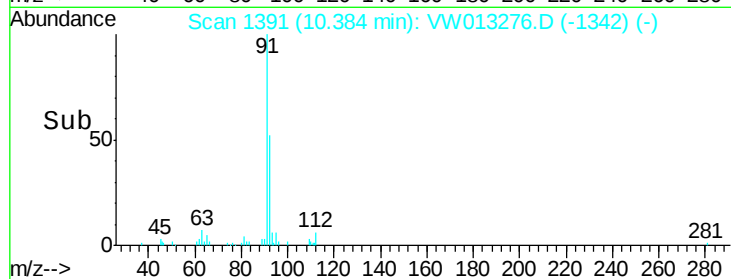
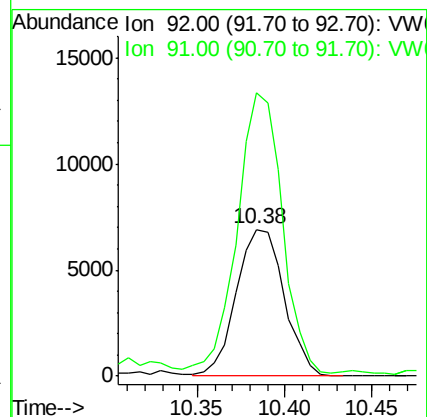
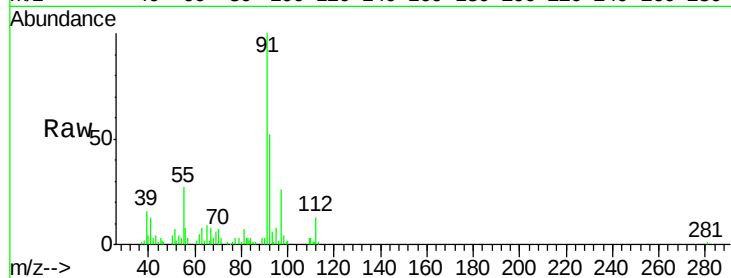
92 100

91 180.5 135.7 203.5

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 47.110 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

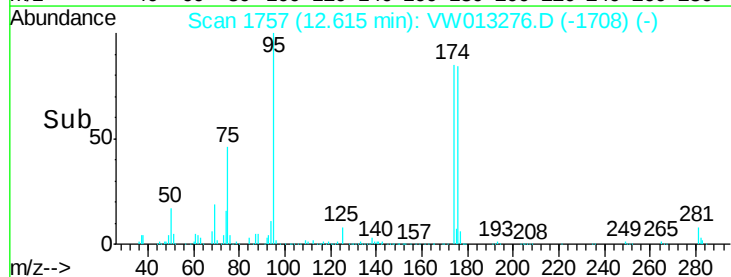
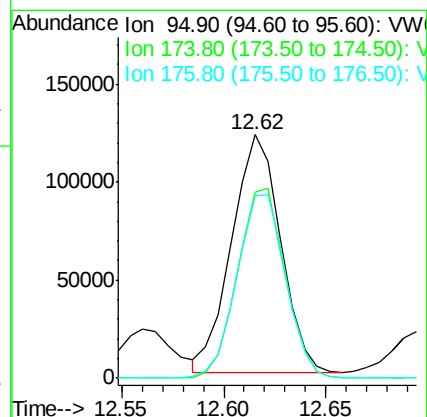
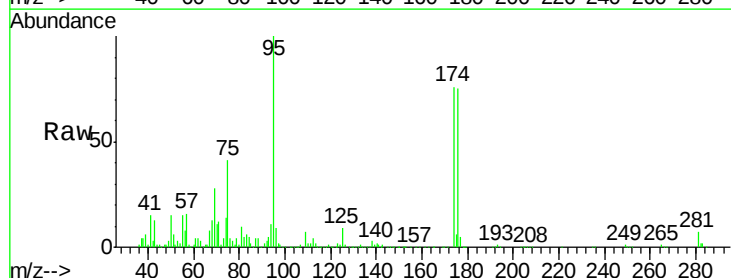
Tgt Ion: 95 Resp: 200638

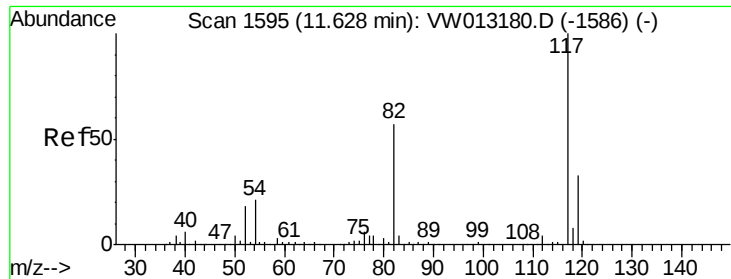
Ion Ratio Lower Upper

95 100

174 78.5 0.0 178.4

176 77.5 0.0 172.2





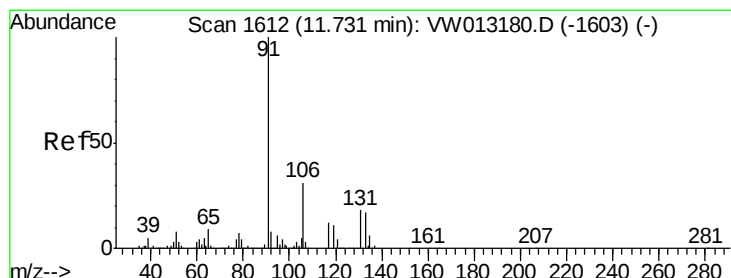
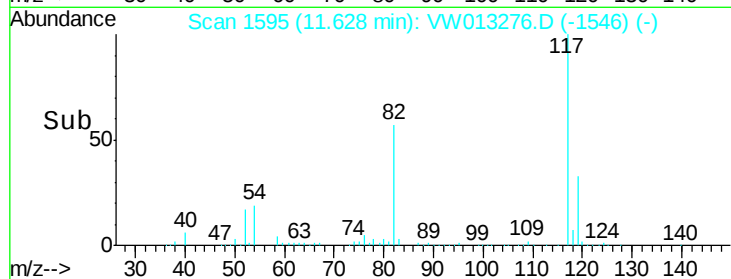
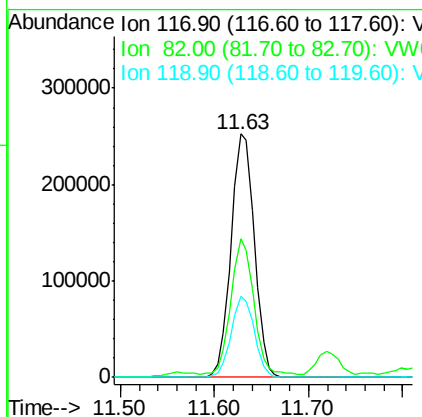
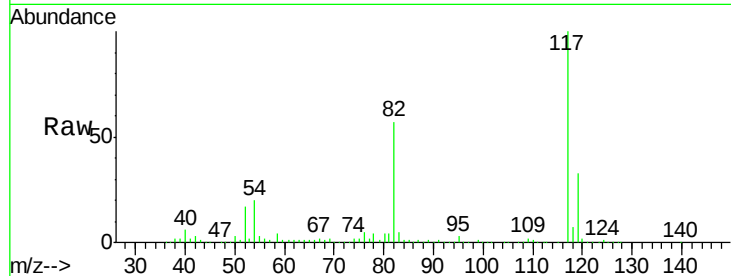
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013276.D
Acq: 24 Sep 2019 15:12

Instrument :
MSVOA_W
ClientSampleId :
SB-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	45.9	68.9
119	33.4	26.2	39.2

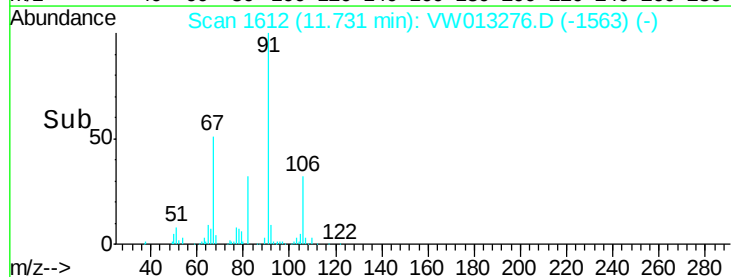
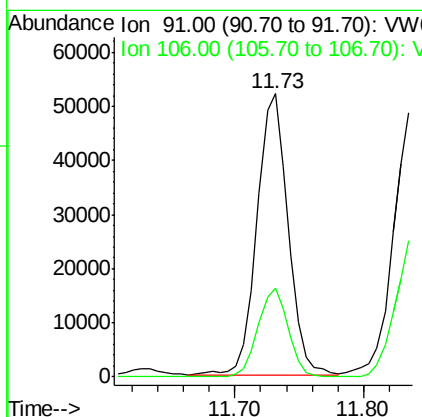
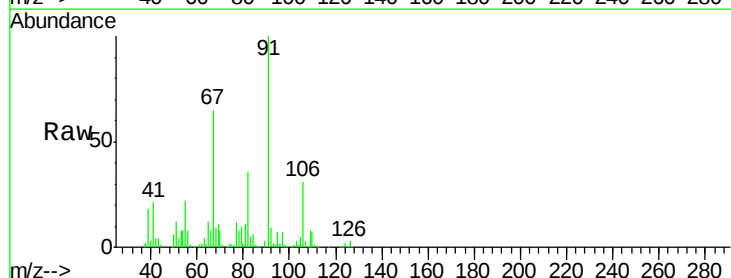
Manual Integrations
APPROVED

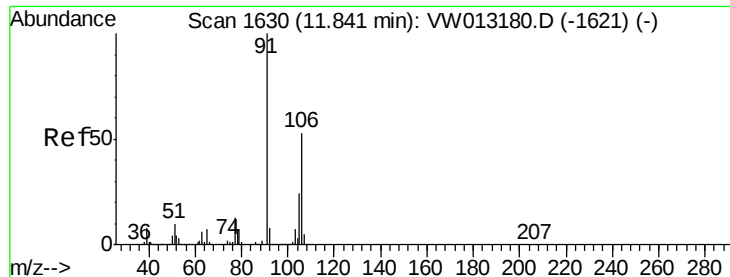
MMDadoda
9/26/2019 12:37:37 AM



#67
Ethyl Benzene
Concen: 5.248 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013276.D
Acq: 24 Sep 2019 15:12

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.9	37.3





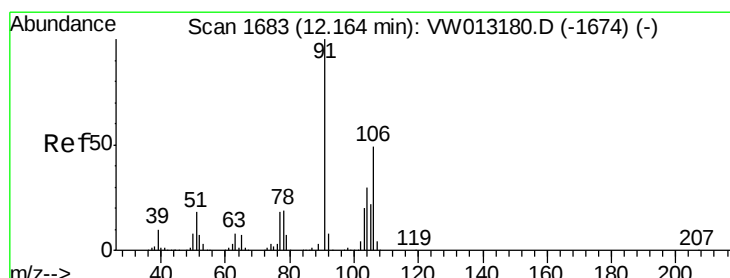
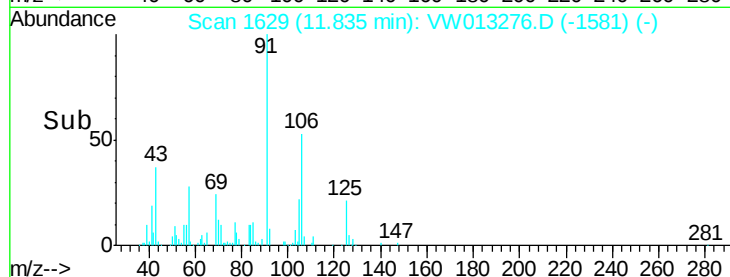
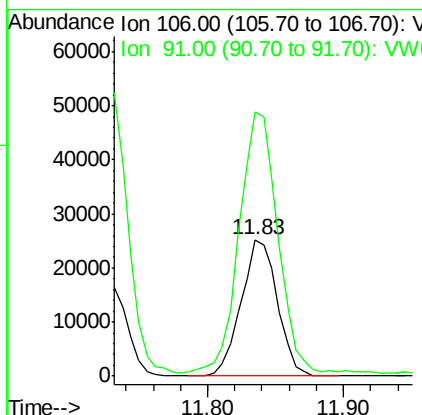
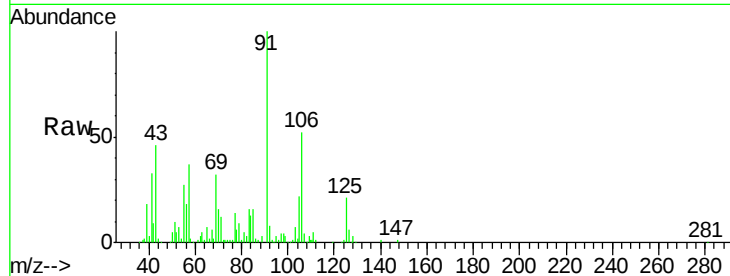
#68
m/p-Xylenes
Concen: 7.512 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013276.D
Acq: 24 Sep 2019 15:12

Instrument :
MSVOA_W
ClientSampled :
SB-2

Tot Ion	Ratio	Lower	Upper
106	100		
91	202.1	157.9	236.9

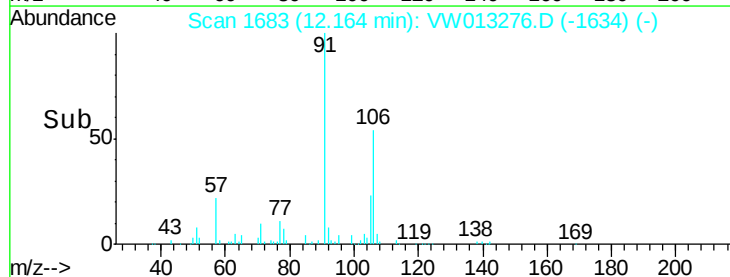
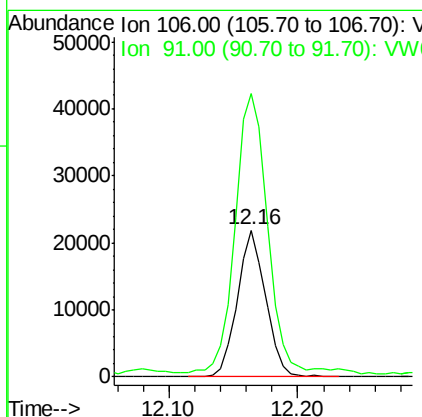
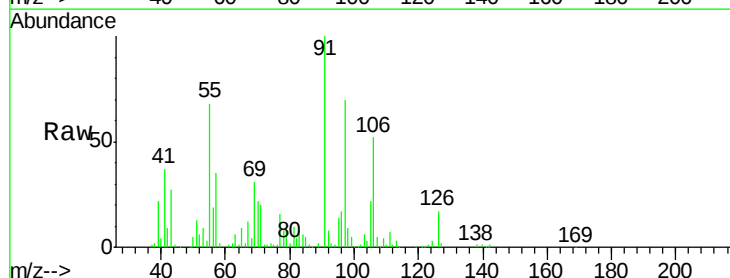
Manual Integrations
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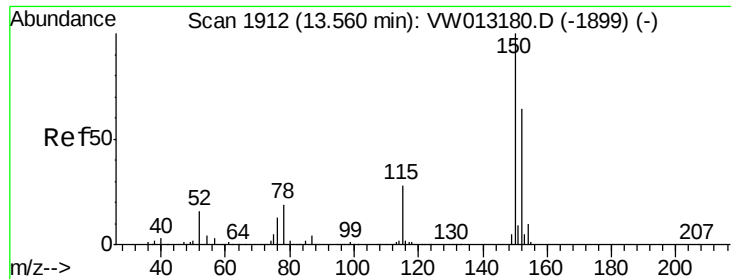
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9/26/2019 12:37:37 AM



#69
o-Xylene
Concen: 5.717 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013276.D
Acq: 24 Sep 2019 15:12

Tgt Ion	Ratio	Lower	Upper
106	100		
91	214.6	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: VW013276.D

Acq: 24 Sep 2019 15:12

Instrument :

MSVOA_W

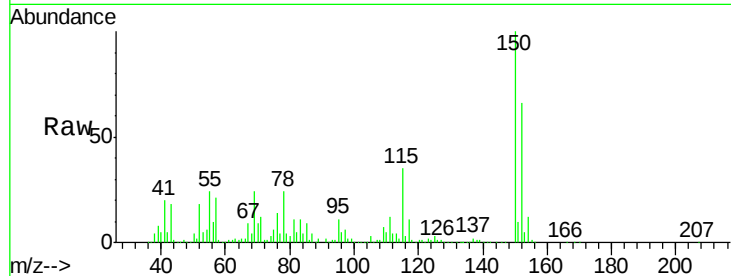
ClientSampled :

SB-2

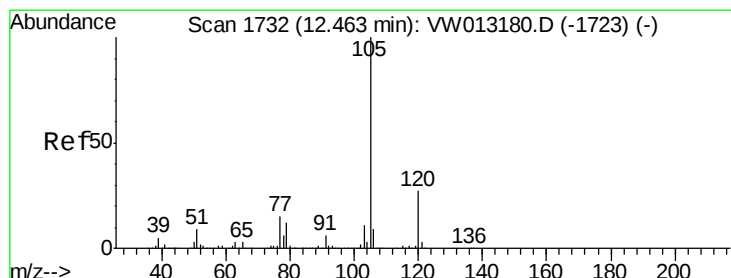
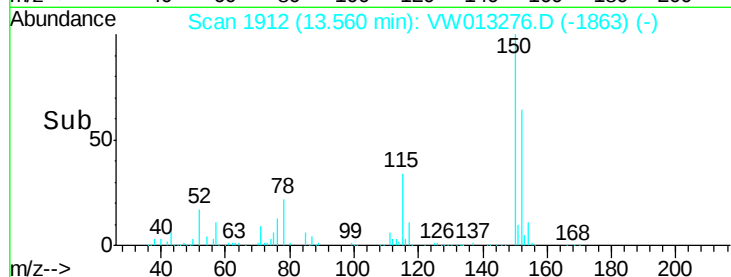
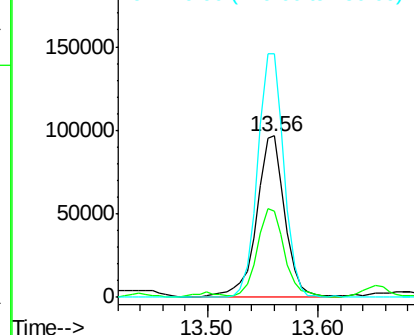
Tot Ion:	152	Resp:	169257
Ion Ratio	Lower	Upper	
152	100		
115	53.6	27.3	81.9
150	140.5	0.0	349.0

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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: 3.286 ug/l

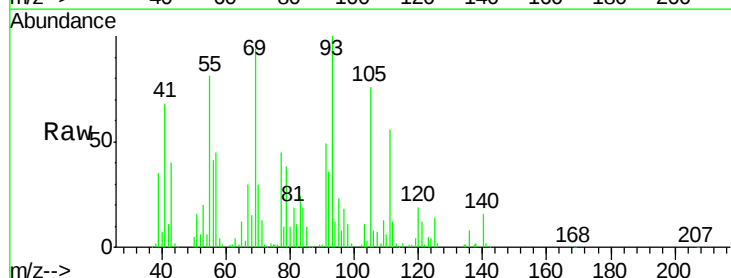
RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

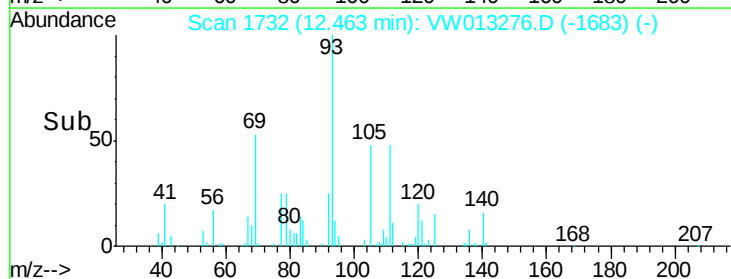
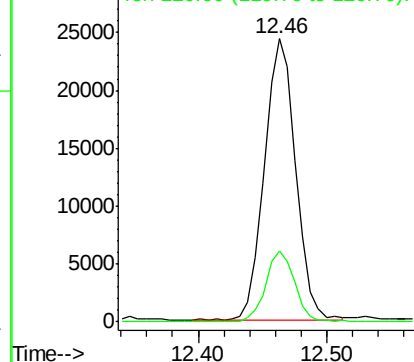
Lab File: VW013276.D

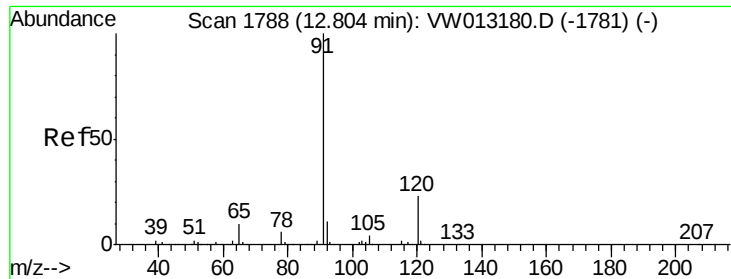
Acq: 24 Sep 2019 15:12

Tgt Ion:	105	Resp:	41080
Ion Ratio	Lower	Upper	
105	100		
120	23.4	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: 5.334 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

Instrument :

MSVOA_W

ClientSampled :

SB-2

Tot Ion: 91 Resp: 78059

Ion Ratio Lower Upper

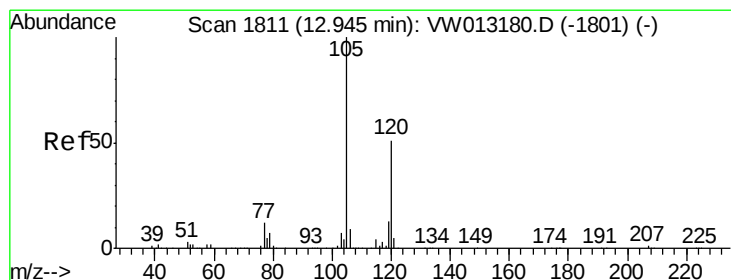
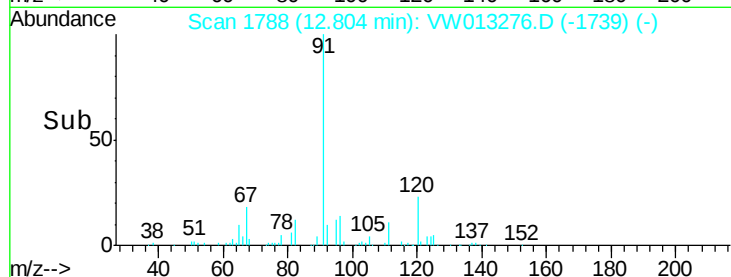
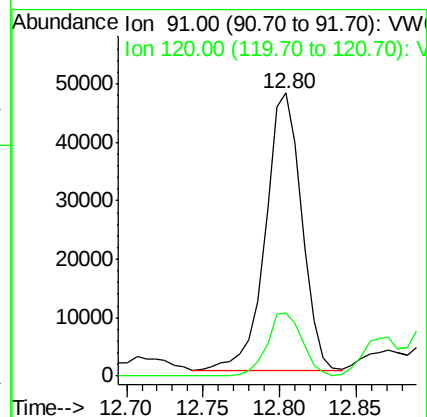
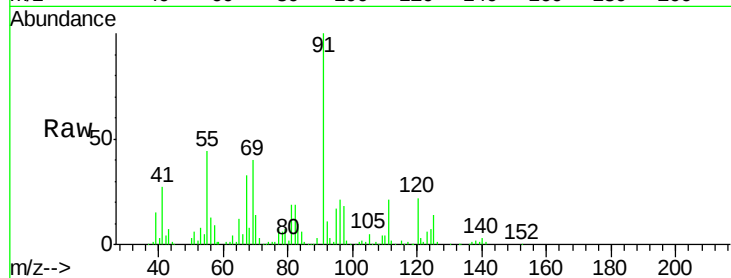
91 100

120 22.4 11.7 35.1

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 1.661 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013276.D

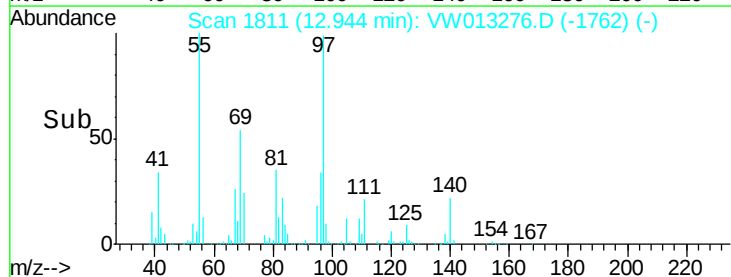
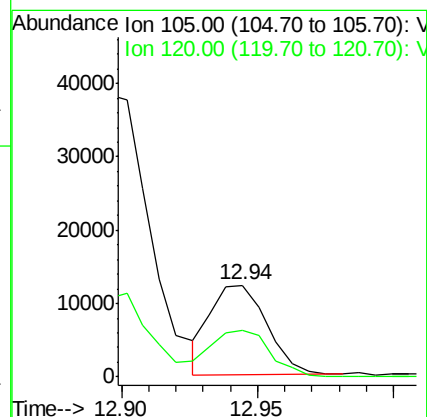
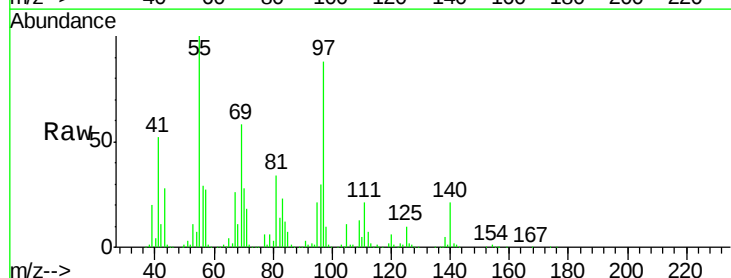
Acq: 24 Sep 2019 15:12

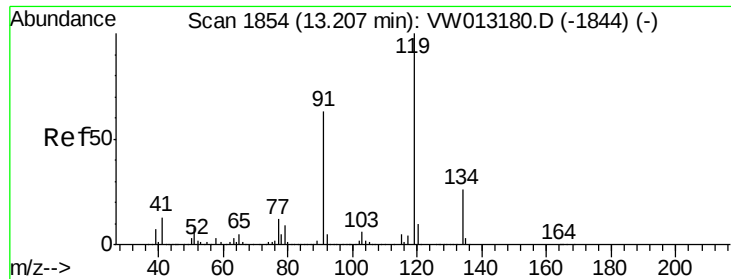
Tgt Ion: 105 Resp: 17459

Ion Ratio Lower Upper

105 100

120 59.0 24.9 74.8





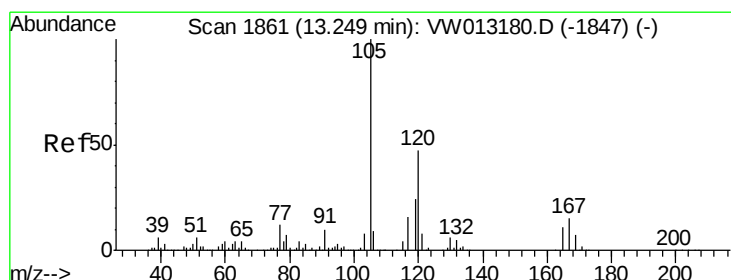
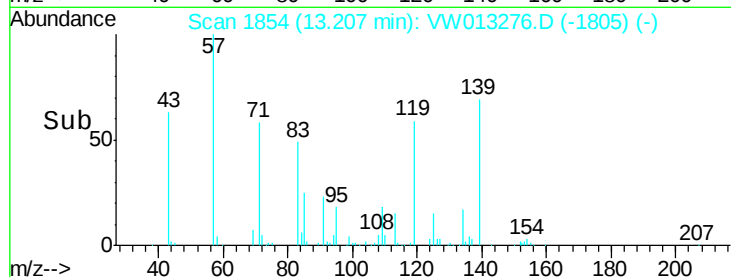
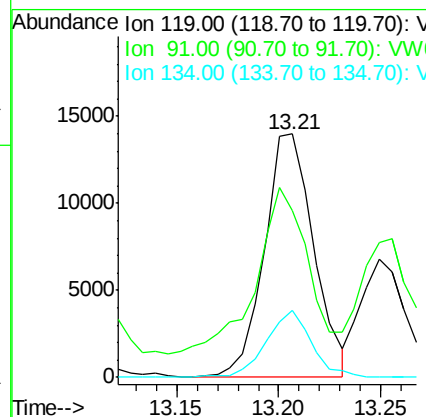
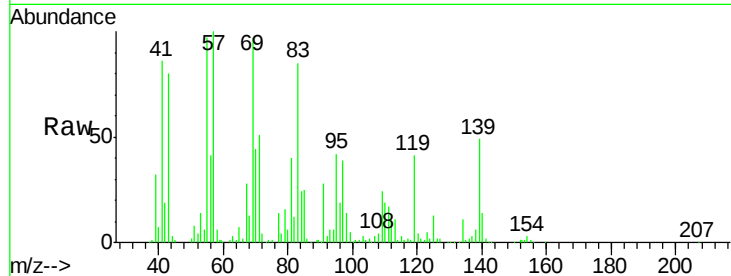
#83
tert-Butylbenzene
Concen: 2.565 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW013276.D
Acq: 24 Sep 2019 15:12

Instrument :
MSVOA_W
ClientSampled :
SB-2

Tot Ion	Ratio	Resp	Lower	Upper
119	100	23660		
91	69.4		30.7	92.1
134	25.1		12.6	37.6

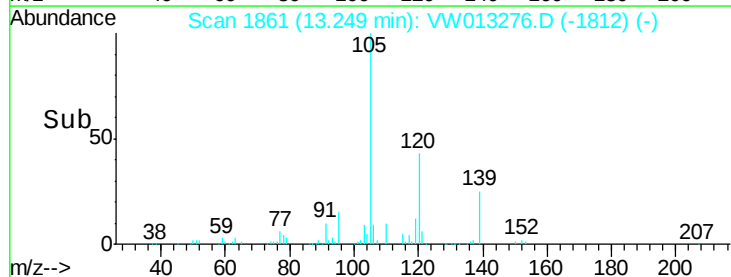
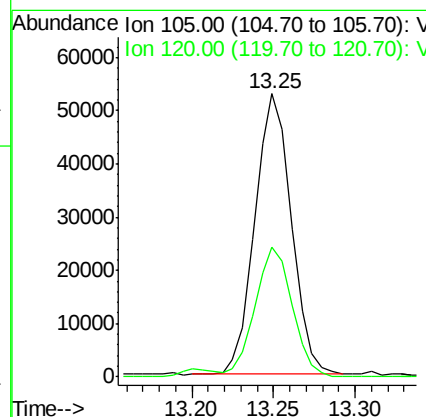
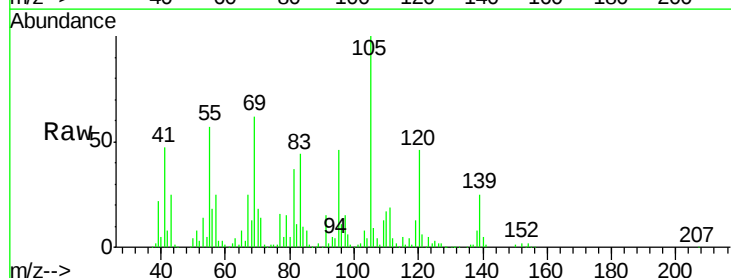
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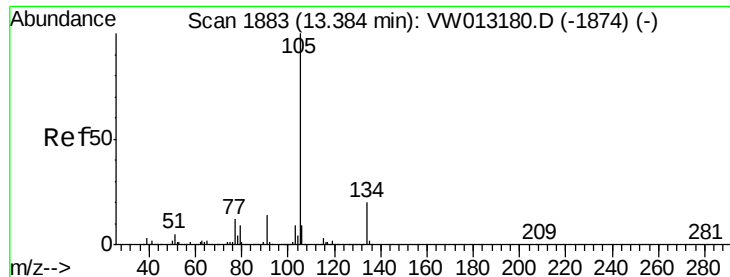
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#84
1,2,4-Trimethylbenzene
Concen: 7.855 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW013276.D
Acq: 24 Sep 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	82148		
120	47.1		23.4	70.3





#85

sec-Butylbenzene

Concen: 4.102 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

Instrument :

MSVOA_W

ClientSampled :

SB-2

Tot Ion:105 Resp: 52170

Ion Ratio Lower Upper

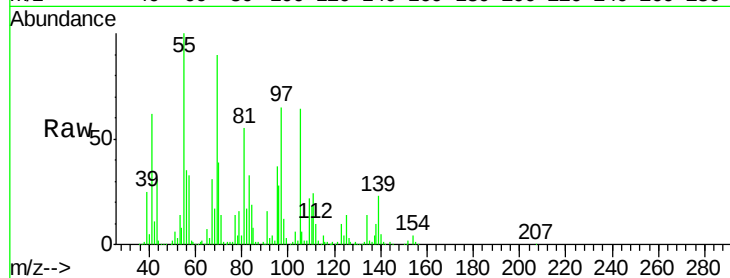
105 100

134 29.4 10.3 30.8

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.38

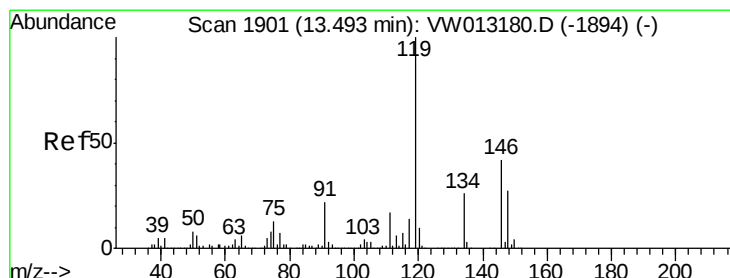
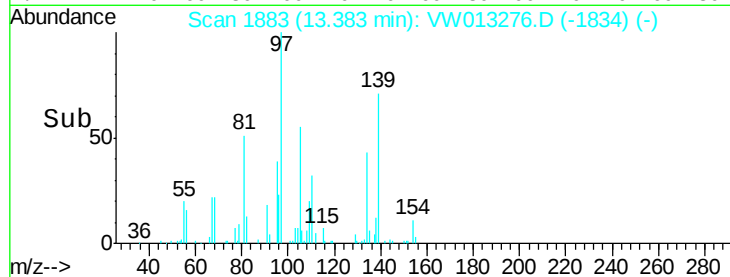
30000

20000

10000

0

Time--> 13.30 13.35 13.40 13.45



#86

p-Isopropyltoluene

Concen: 4.071 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.01 min

Lab File: VW013276.D

Acq: 24 Sep 2019 15:12

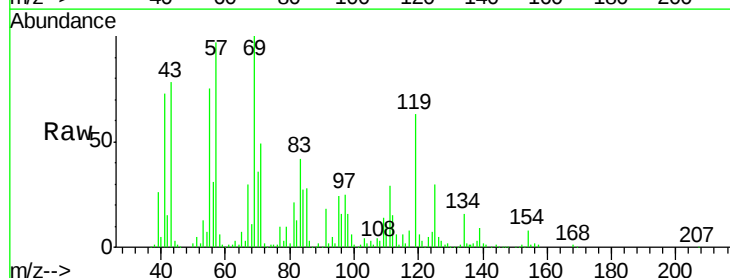
Tgt Ion:119 Resp: 48024

Ion Ratio Lower Upper

119 100

134 27.3 13.3 39.8

91 28.9 10.8 32.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.50

40000

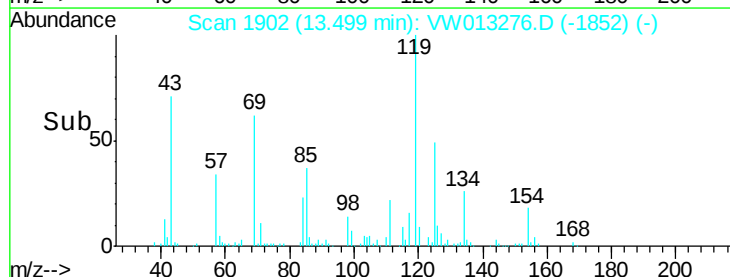
30000

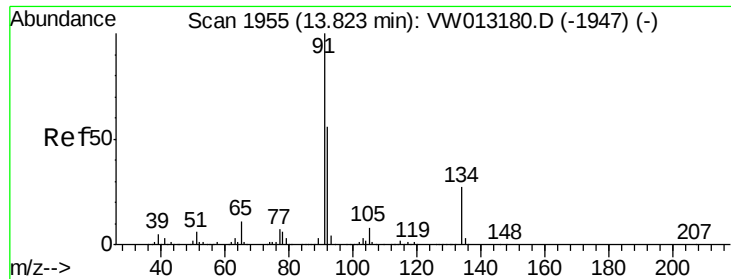
20000

10000

0

Time--> 13.45 13.50 13.55





#89
 n-Butylbenzene
 Concen: 3.710 ug/l m
 RT: 13.82 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW013276.D
 Acq: 24 Sep 2019 15:12

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-2

Tot Ion:	91	Resp:	39958
Ion Ratio	Lower	Upper	
91	100		
92	59.2	27.6	82.8
134	0.0	13.7	41.1#

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 12:37:37 AM

