

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
 Data File : VN054295.D
 Acq On : 15 Mar 2019 7:18
 Operator : JC/SP
 Sample : K1902-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30302

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:15:00 AM

Quant Time: Mar 15 08:35:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1307919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2182780	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2358286	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1147443	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	707124	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.82%	
35) Dibromofluoromethane	7.59	113	669132	47.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.06%	
50) Toluene-d8	10.09	98	2760522	53.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.40	95	1120496	61.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	123.18%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	20099129	5053.760	ug/l	99
18) Methyl Acetate	4.33	43	298613	37.112	ug/l	100
20) Methylene Chloride	4.54	84	17118	1.311	ug/l	93
25) 2-Butanone	6.85	43	878163	188.130	ug/l	99
37) Ethyl Acetate	6.94	43	1826951	158.176	ug/l	98
52) Toluene	10.16	92	200808	5.506	ug/l	97
64) Tetrachloroethene	10.63	164	82315	3.610	ug/l	99
67) Ethyl Benzene	11.51	91	774610	9.024	ug/l	100
68) m/p-Xylenes	11.62	106	1579182	47.071	ug/l	100
69) o-Xylene	11.95	106	1128677	34.511	ug/l	99
73) Isopropylbenzene	12.25	105	137838	1.501	ug/l	99
78) n-propylbenzene	12.59	91	605302	6.077	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	1579015	20.678	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	6952115	92.802	ug/l	100
85) sec-Butylbenzene	13.17	105	142127m	1.559	ug/l	
86) p-Isopropyltoluene	13.29	119	129469	1.619	ug/l	100
89) n-Butylbenzene	13.61	91	200601	3.302	ug/l #	61
95) Naphthalene	15.13	128	2283809	45.700	ug/l	98

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

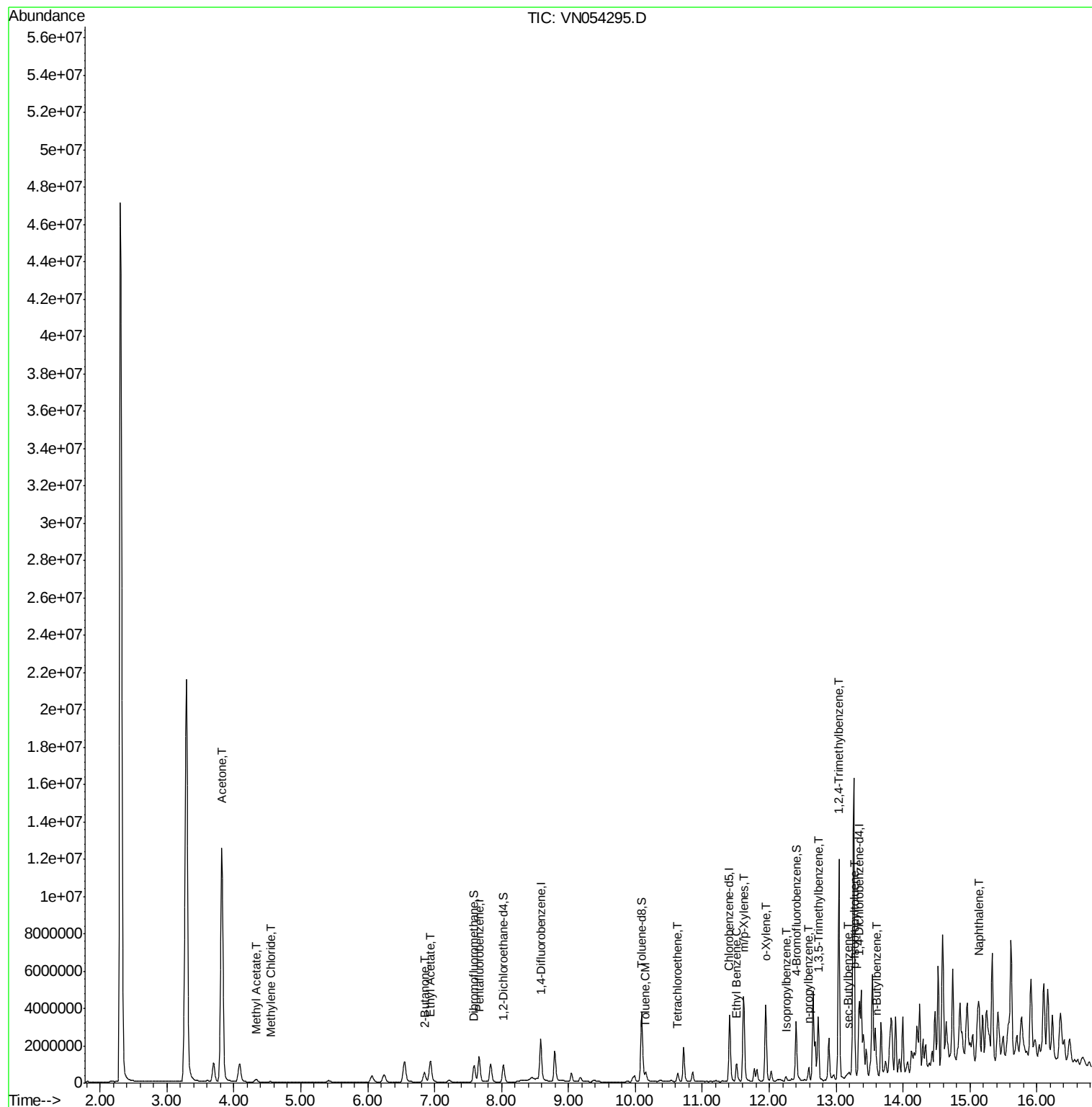
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
Data File : VN054295.D
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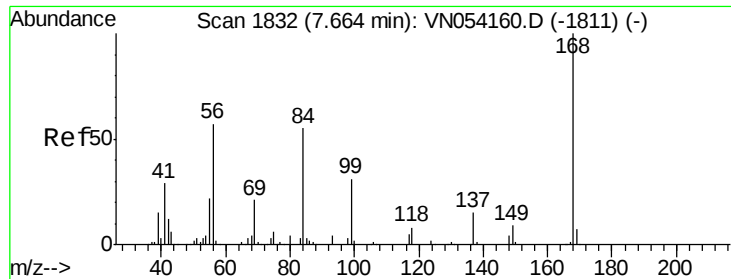
Instrument :
MSVOA_N
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30302

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3/15/2019 10:15:00 AM

Quant Time: Mar 15 08:35:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054295.D

Acq: 15 Mar 2019 7:18

Instrument :

MSVOA_N

ClientSampled :

30302

Tgt Ion:168 Resp: 1307919

Ion Ratio Lower Upper

168 100

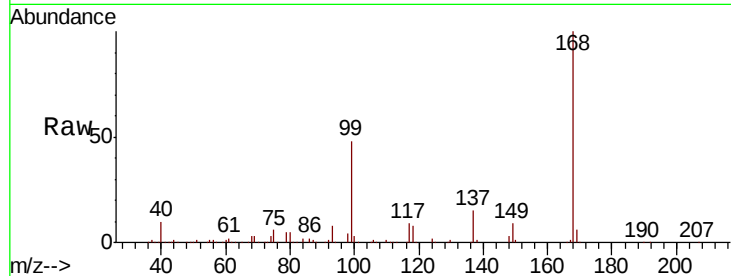
99 47.8 37.1 55.7

Manual Integrations

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3/15/2019 10:15:00 AM



Abundance Ion 167.90 (167.60 to 168.60): VN054160.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN054160.D (-1811) (-)

7.66

600000

500000

400000

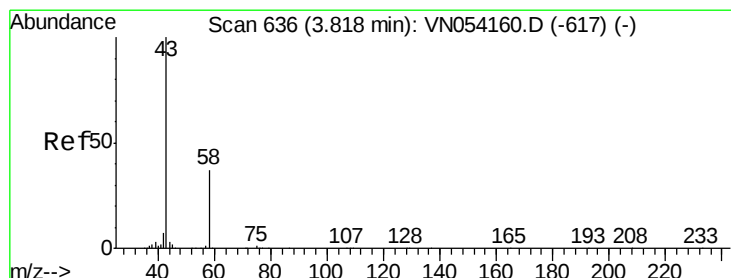
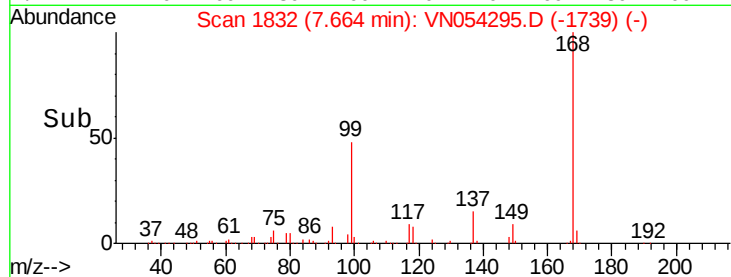
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 5053.760 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN054295.D

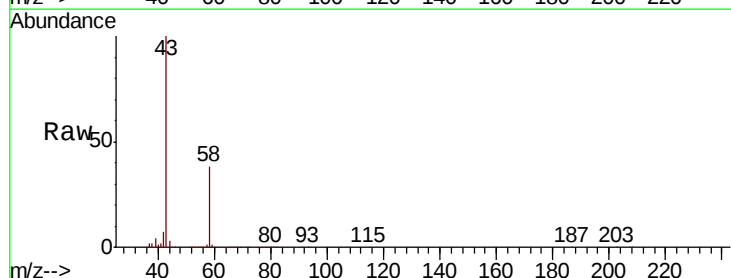
Acq: 15 Mar 2019 7:18

Tgt Ion: 43 Resp:20099129

Ion Ratio Lower Upper

43 100

58 38.1 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-617) (-)

Ion 58.00 (57.70 to 58.70): VN054160.D (-617) (-)

3.82

8000000

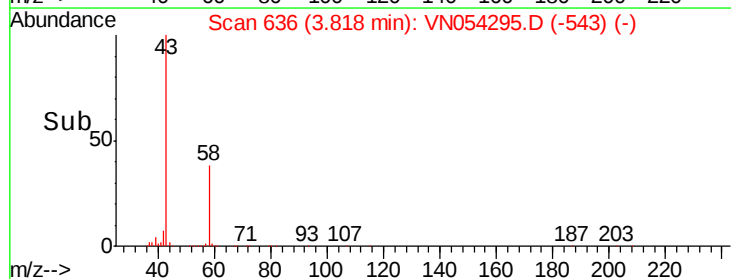
6000000

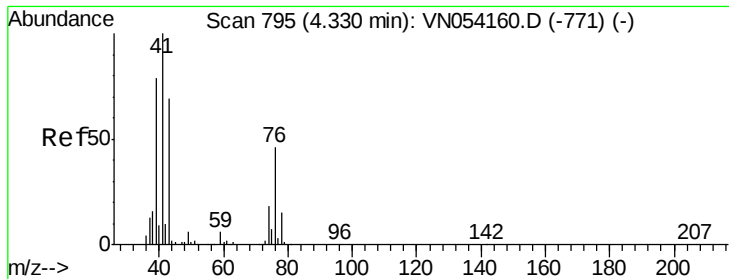
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2000000

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Time-->





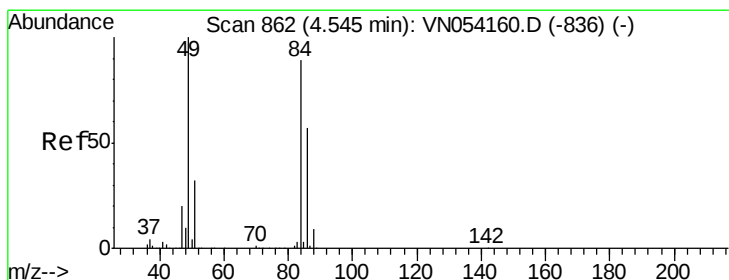
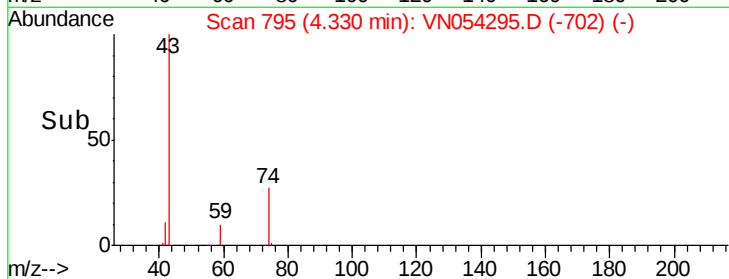
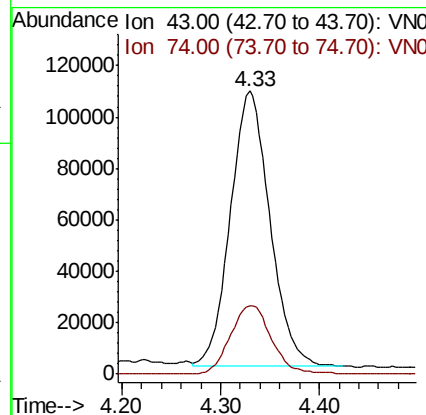
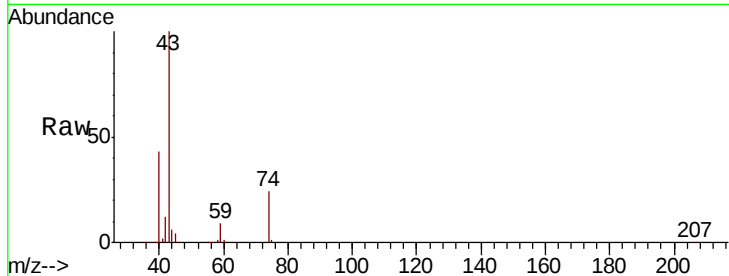
#18
Methyl Acetate
Concen: 37.112 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Instrument :
MSVOA_N
ClientSampleId :
30302

Tgt Ion: 43 Resp: 298613
Ion Ratio Lower Upper
43 100
74 25.9 20.8 31.2

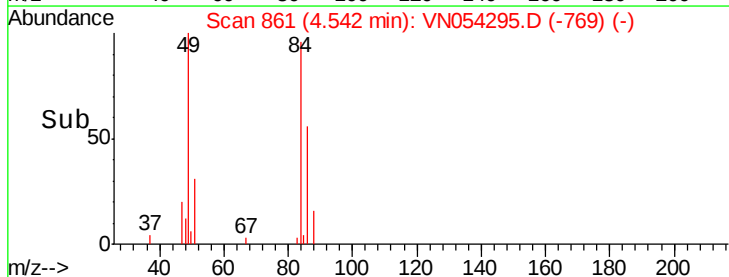
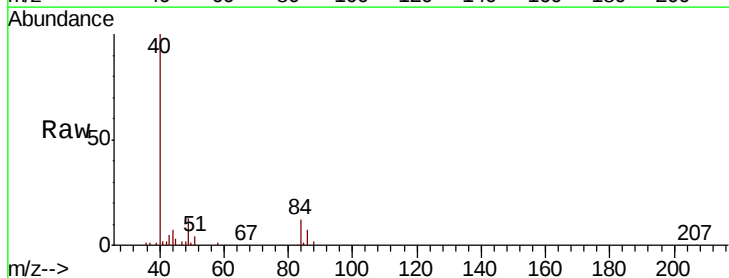
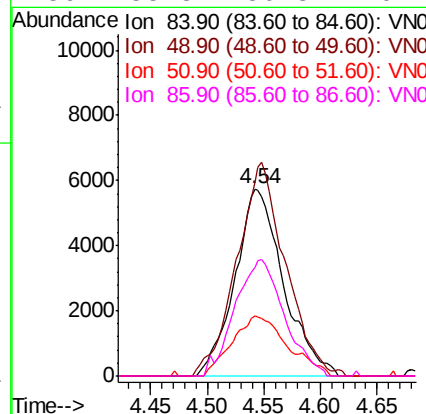
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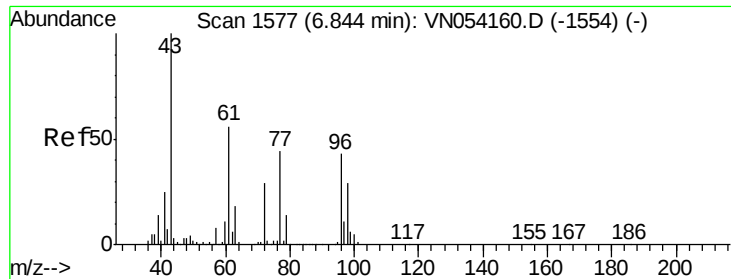
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#20
Methylene Chloride
Concen: 1.311 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Tgt Ion: 84 Resp: 17118
Ion Ratio Lower Upper
84 100
49 103.9 89.7 134.5
51 32.5 28.2 42.4
86 58.3 50.8 76.2





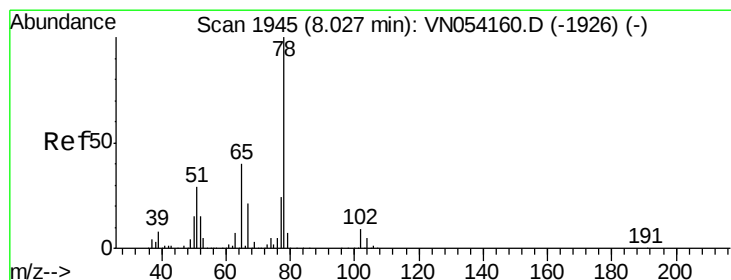
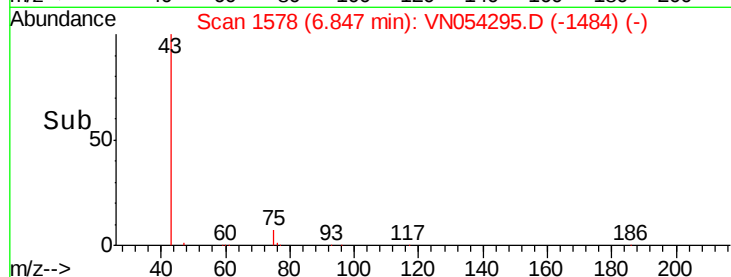
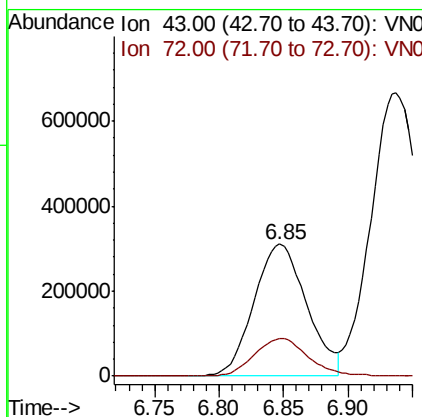
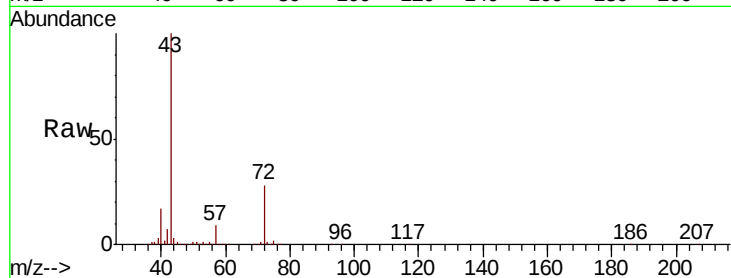
#25
2-Butanone
Concen: 188.130 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Instrument :
MSVOA_N
ClientSampled :
30302

Tgt Ion: 43 Resp: 878163
Ion Ratio Lower Upper
43 100
72 28.2 23.0 34.6

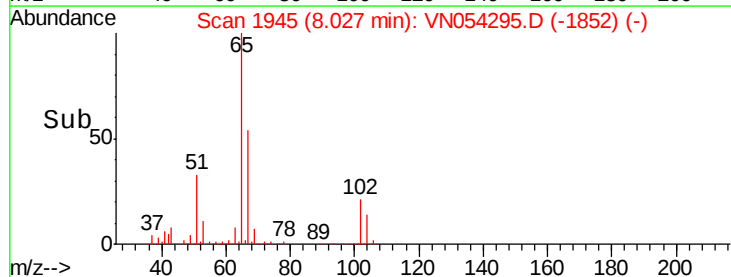
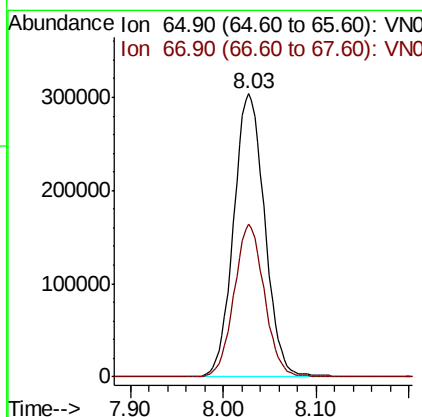
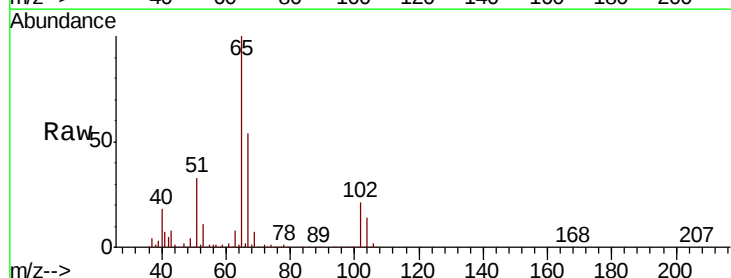
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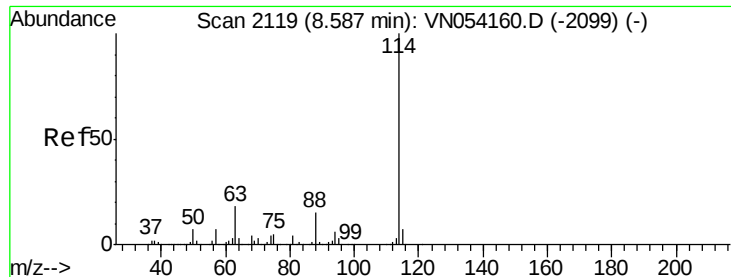
MMDadoda
3/15/2019 10:15:00 AM



#33
1,2-Dichloroethane-d4
Concen: 50.908 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Tgt Ion: 65 Resp: 707124
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.6





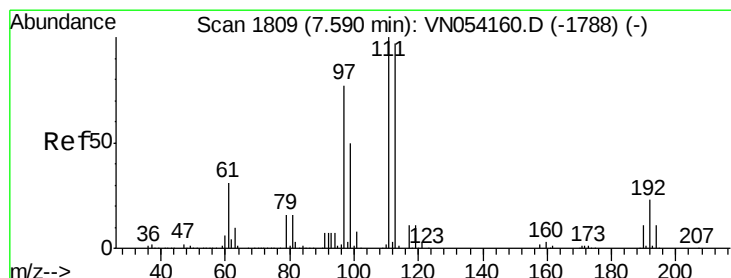
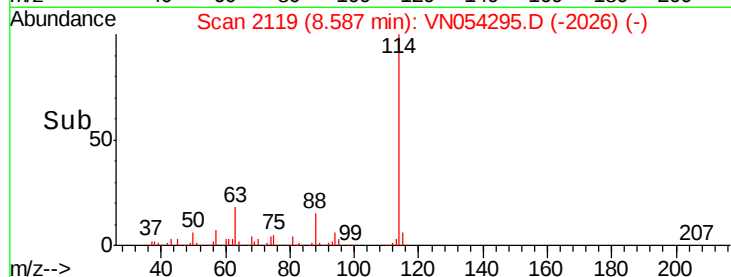
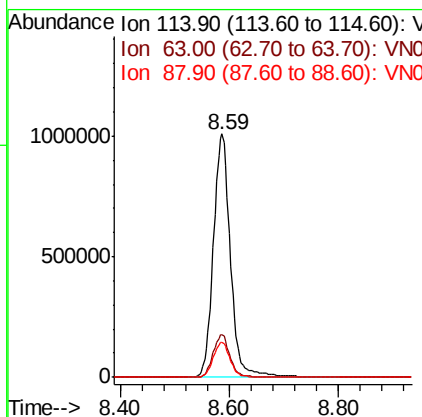
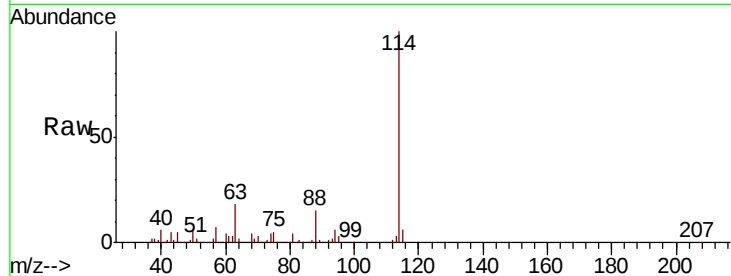
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Instrument :
MSVOA_N
ClientSampled :
30302

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.7	0.0	35.2
88	14.6	0.0	30.2

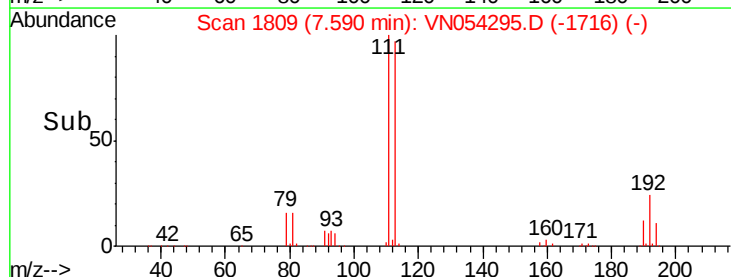
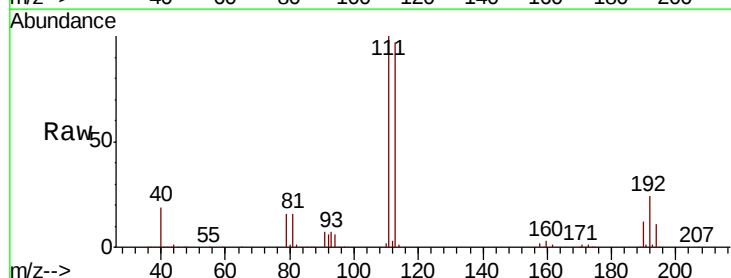
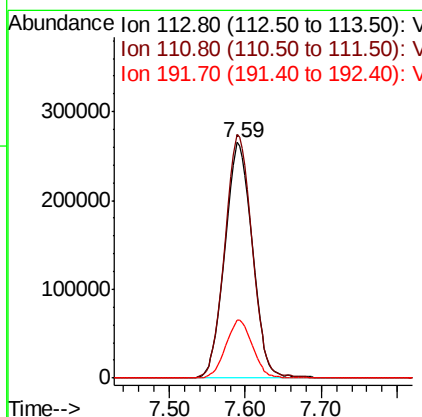
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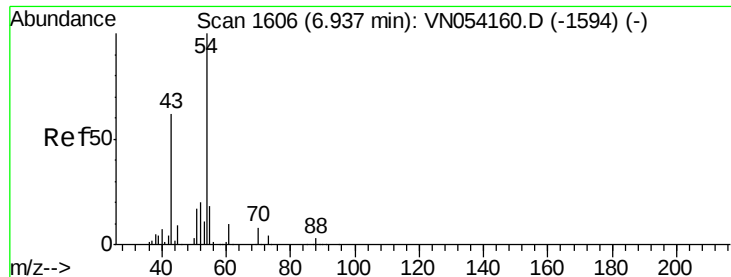
MMDadoda
3/15/2019 10:15:00 AM



#35
Dibromofluoromethane
Concen: 47.530 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	24.0	19.2	28.8





#37

Ethyl Acetate

Concen: 158.176 ug/l

RT: 6.94 min Scan# 1606

Delta R.T. 0.00 min

Lab File: VN054295.D

Acq: 15 Mar 2019 7:18

Instrument :

MSVOA_N

ClientSampled :

30302

Tgt Ion: 43 Resp: 1826951

Ion Ratio Lower Upper

43 100

61 15.3 11.8 17.6

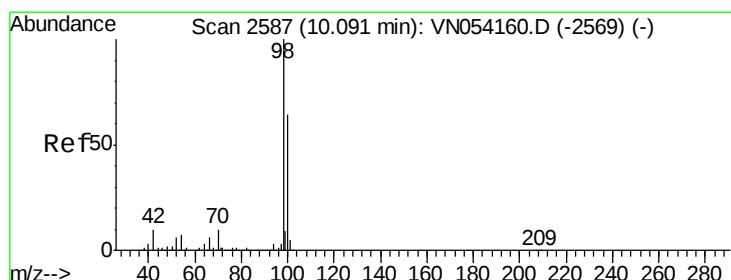
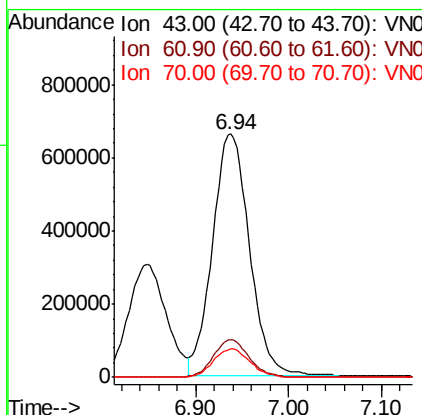
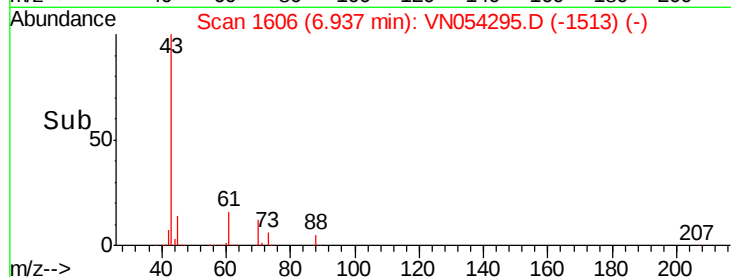
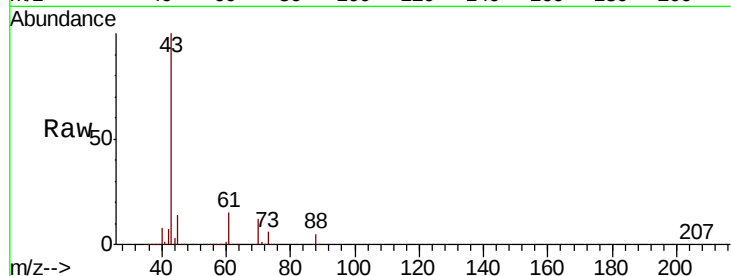
70 11.8 8.4 12.6

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#50

Toluene-d8

Concen: 53.095 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054295.D

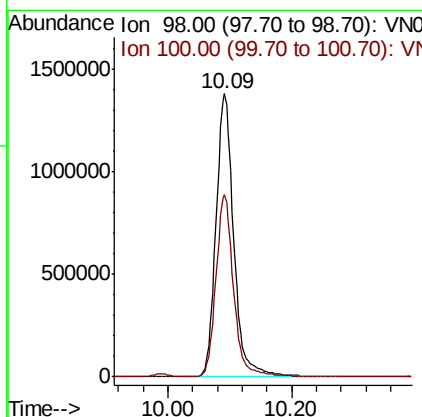
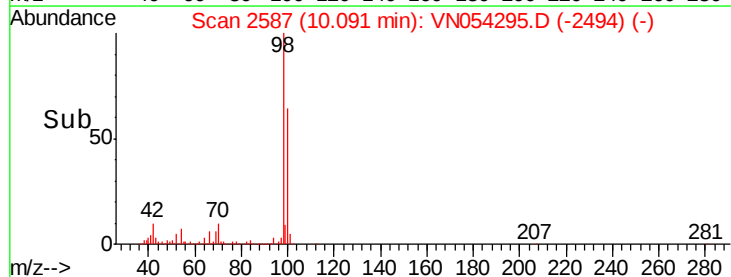
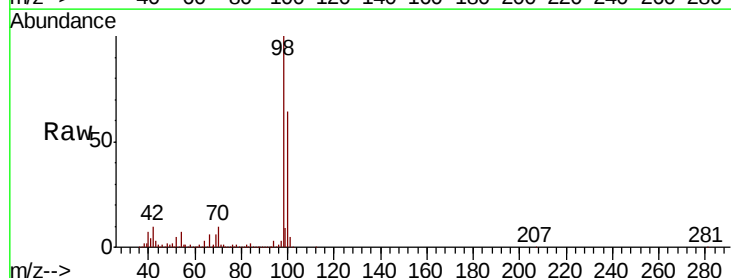
Acq: 15 Mar 2019 7:18

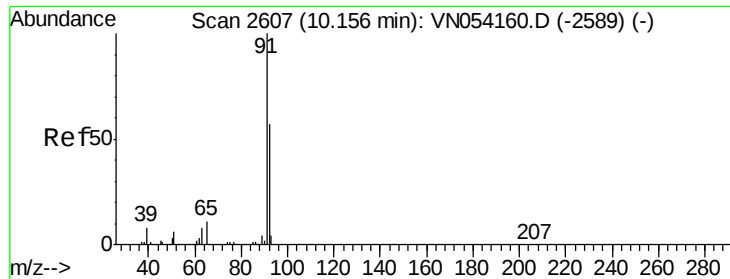
Tgt Ion: 98 Resp: 2760522

Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8





#52

Toluene

Concen: 5.506 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054295.D

Acq: 15 Mar 2019 7:18

Instrument :

MSVOA_N

ClientSampled :

30302

Tgt Ion: 92 Resp: 200808

Ion Ratio Lower Upper

92 100

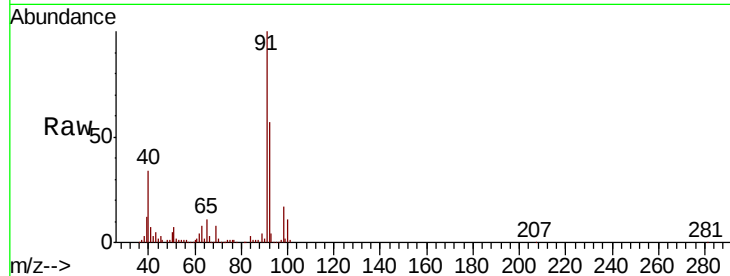
91 179.7 140.7 211.1

Manual Integrations

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3/15/2019 10:15:00 AM



Abundance Ion 92.00 (91.70 to 92.70): VN054160.D (-2589) (-)

Ion 91.00 (90.70 to 91.70): VN054160.D (-2589) (-)

200000

150000

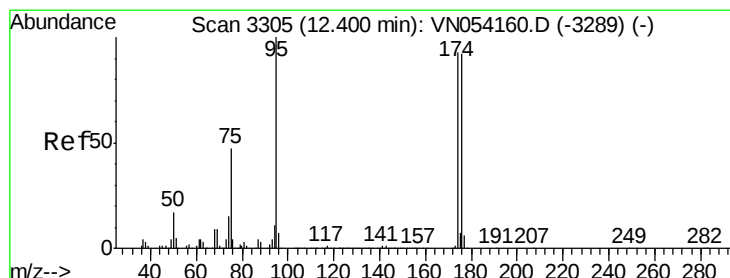
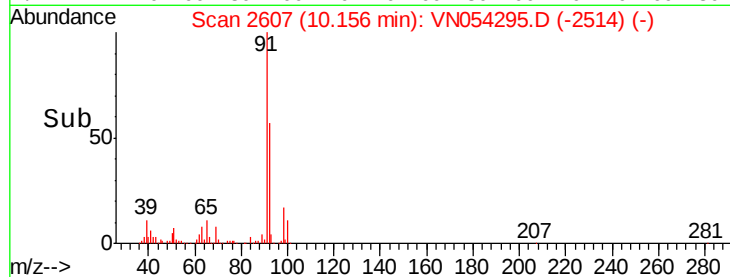
100000

50000

0

10.10 10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 61.592 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054295.D

Acq: 15 Mar 2019 7:18

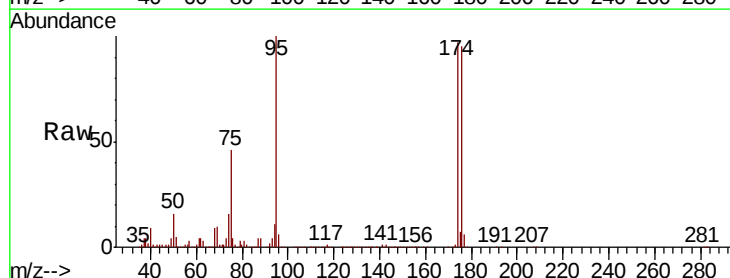
Tgt Ion: 95 Resp: 1120496

Ion Ratio Lower Upper

95 100

174 97.0 0.0 191.0

176 94.8 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054160.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN054160.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN054160.D (-3289) (-)

800000

600000

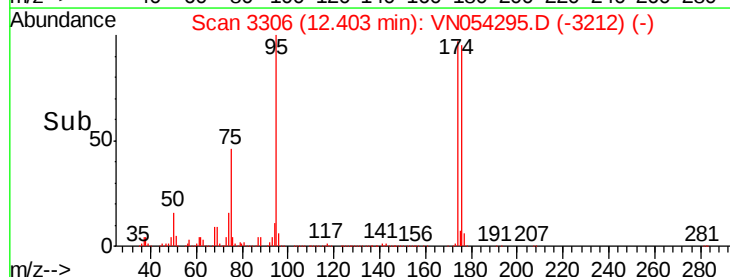
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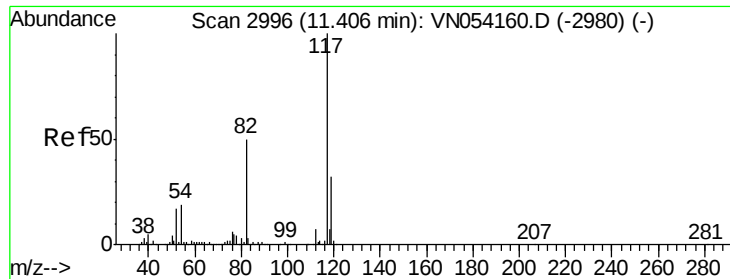
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0

12.30 12.40 12.50

Time-->





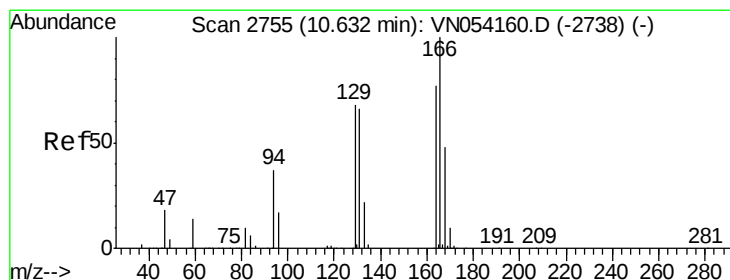
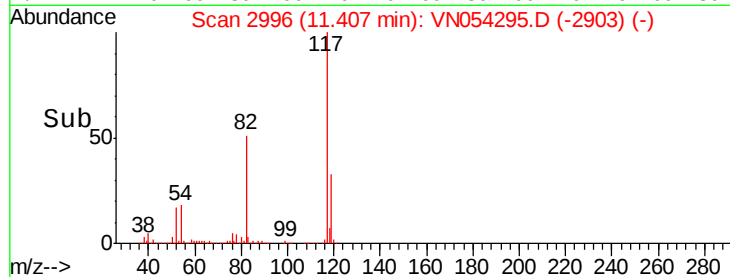
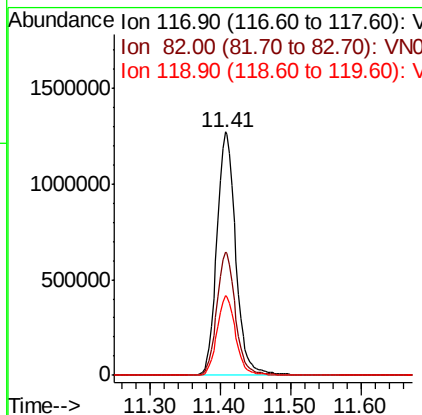
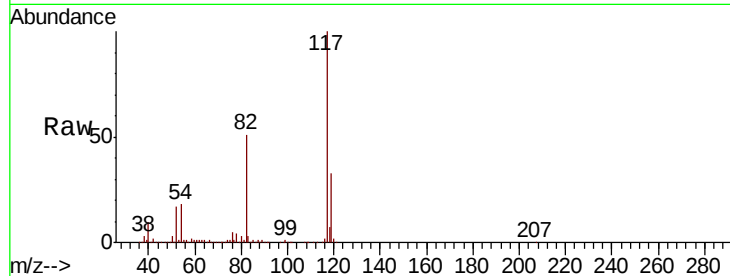
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Instrument :
MSVOA_N
ClientSampleId :
30302

Tgt Ion:117 Resp: 2358286
Ion Ratio Lower Upper
117 100
82 50.7 40.0 60.0
119 32.6 25.8 38.6

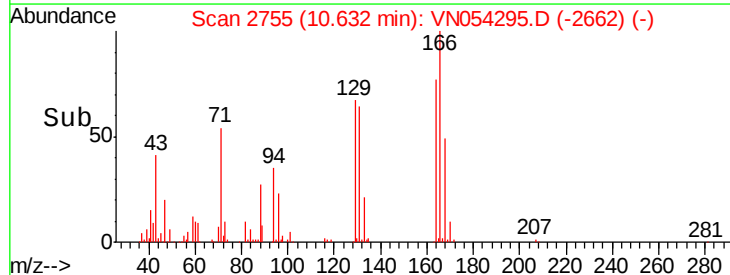
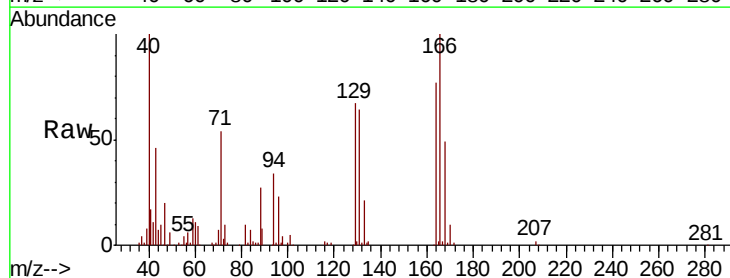
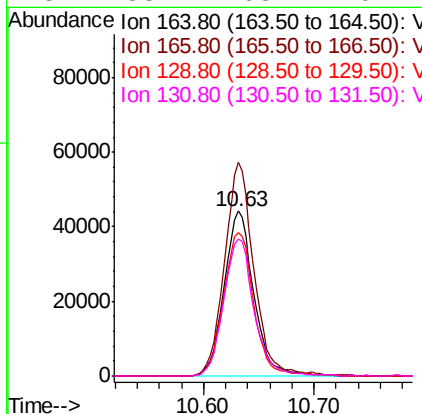
Manual Integrations
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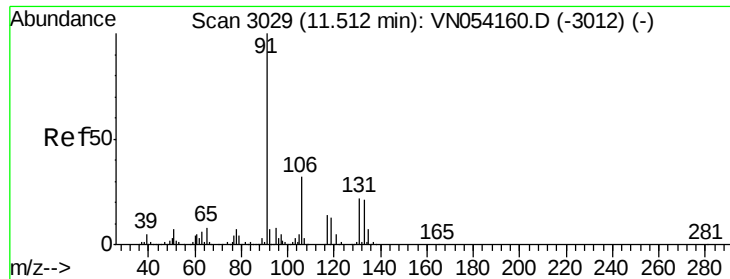
MMDadoda
3/15/2019 10:15:00 AM



#64
Tetrachloroethene
Concen: 3.610 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Tgt Ion:164 Resp: 82315
Ion Ratio Lower Upper
164 100
166 129.8 103.9 155.9
129 87.0 71.1 106.7
131 83.1 68.2 102.4





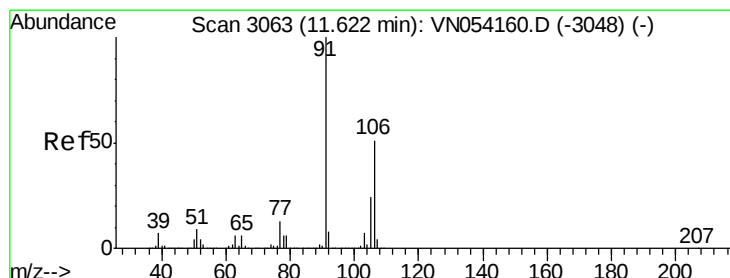
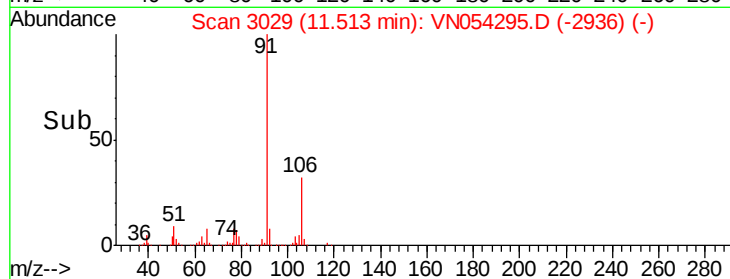
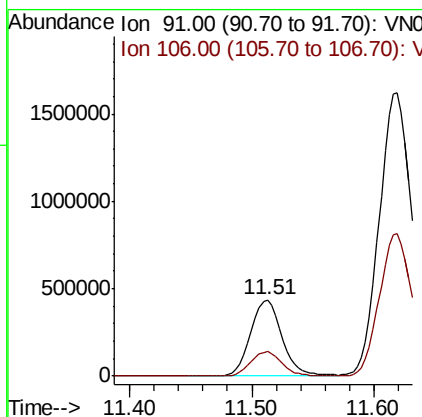
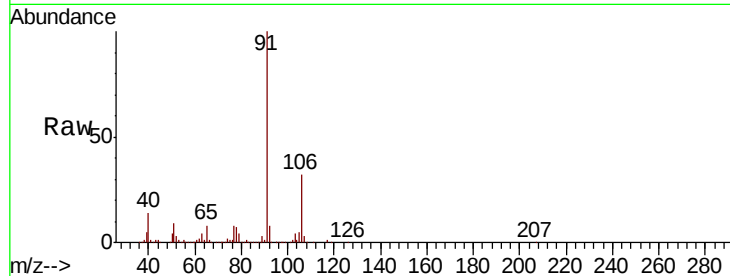
#67
Ethyl Benzene
Concen: 9.024 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Instrument :
MSVOA_N
ClientSampled :
30302

Tgt Ion: 91 Resp: 774610
Ion Ratio Lower Upper
91 100
106 31.8 25.5 38.3

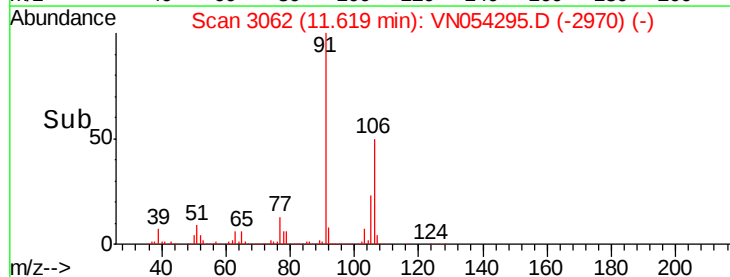
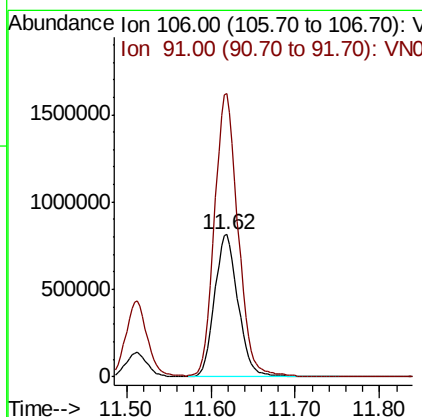
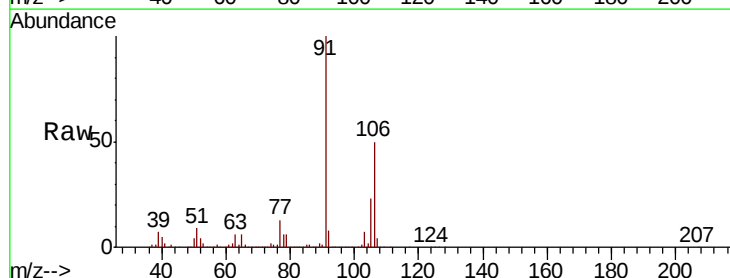
Manual Integrations
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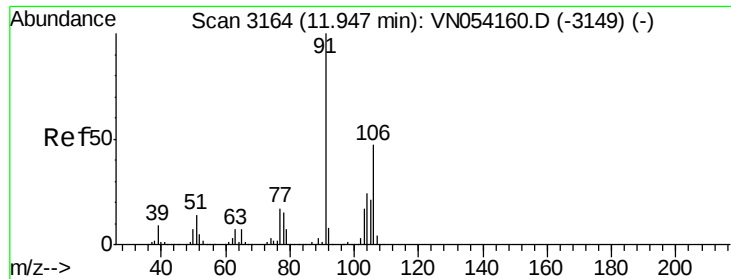
MMDadoda
3/15/2019 10:15:00 AM



#68
m/p-Xylenes
Concen: 47.071 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Tgt Ion: 106 Resp: 1579182
Ion Ratio Lower Upper
106 100
91 199.4 159.4 239.2





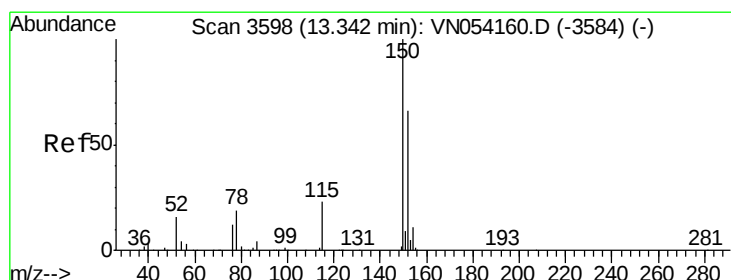
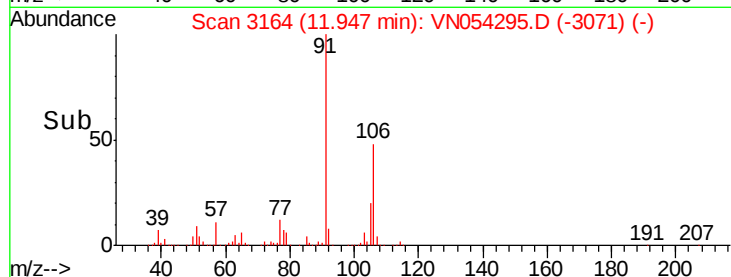
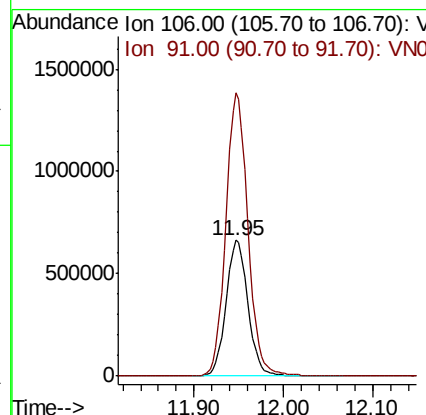
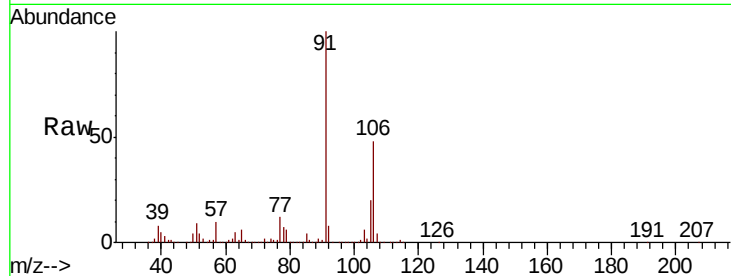
#69
o-Xylene
Concen: 34.511 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Instrument :
MSVOA_N
ClientSampleId :
30302

Tgt Ion:106 Resp: 1128677
Ion Ratio Lower Upper
106 100
91 209.6 105.7 317.1

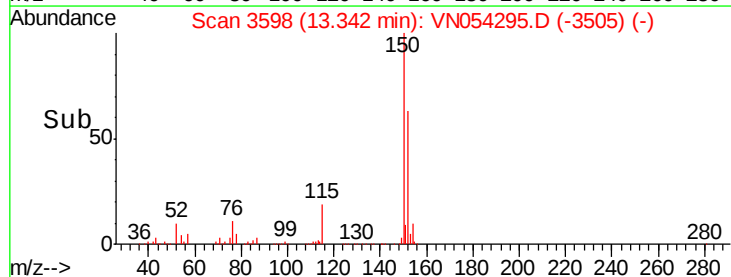
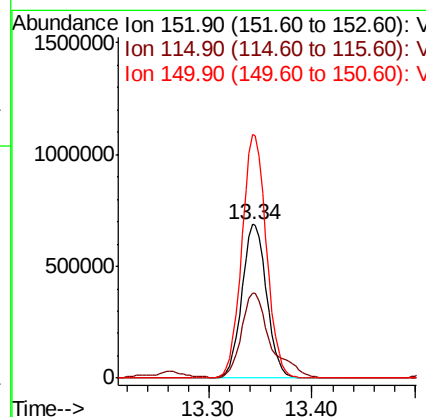
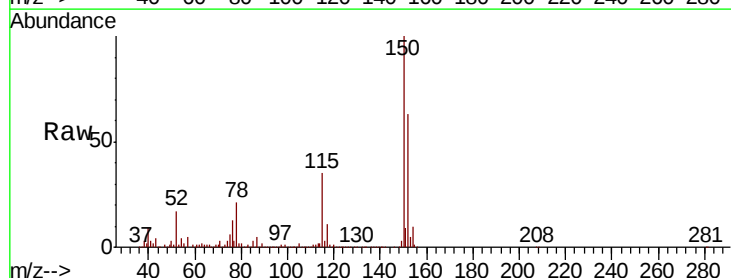
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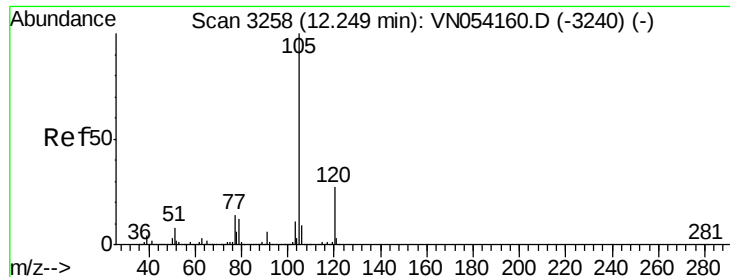
MMDadoda
3/15/2019 10:15:00 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Tgt Ion:152 Resp: 1147443
Ion Ratio Lower Upper
152 100
115 64.6 27.2 81.6
150 157.3 0.0 349.2





#73

Isopropylbenzene

Concen: 1.501 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054295.D

Acq: 15 Mar 2019 7:18

Instrument :

MSVOA_N

ClientSampleId :

30302

Tgt Ion: 105 Resp: 137838

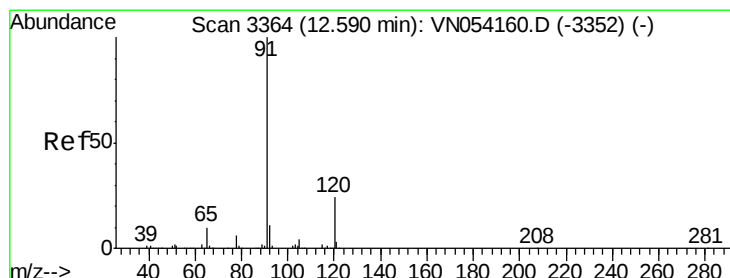
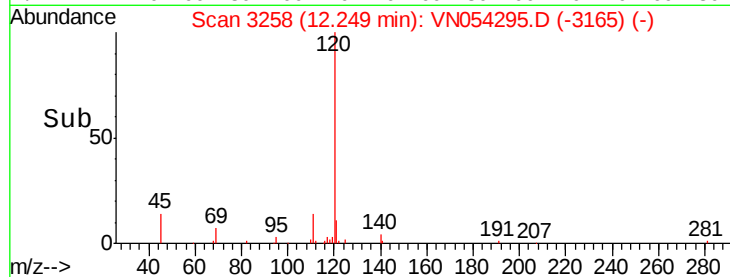
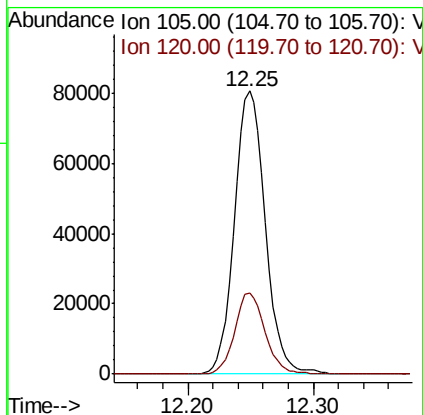
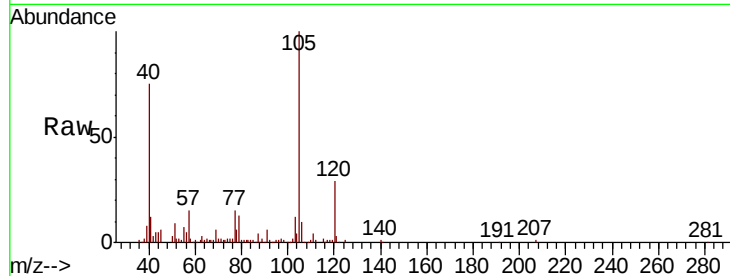
Ion Ratio Lower Upper

105 100

120 28.2 13.8 41.3

Manual Integrations
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#78

n-propylbenzene

Concen: 6.077 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054295.D

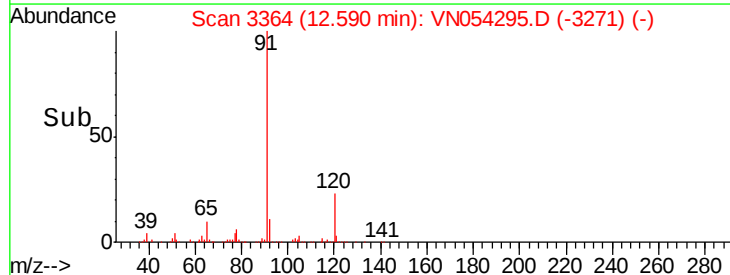
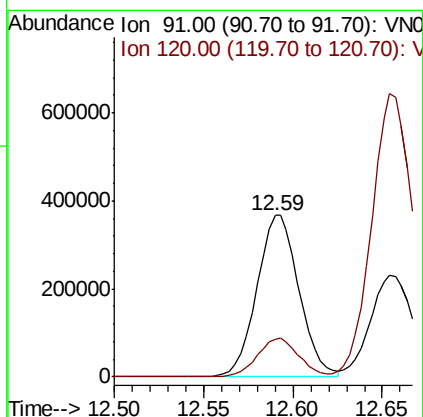
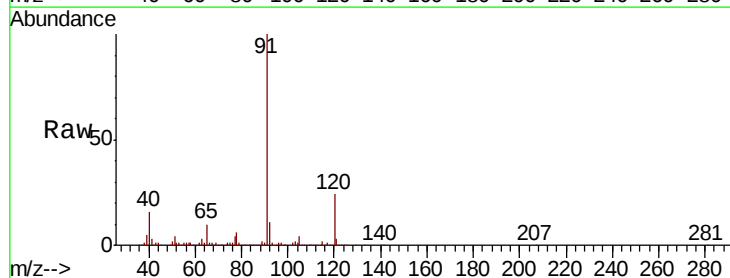
Acq: 15 Mar 2019 7:18

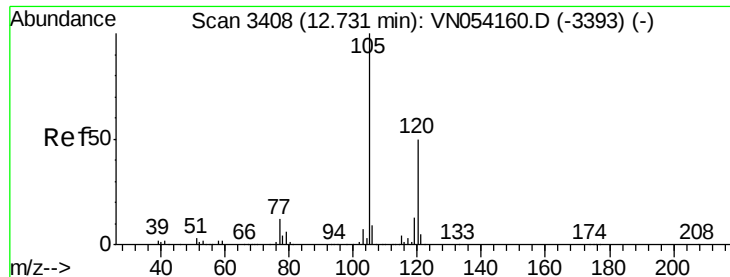
Tgt Ion: 91 Resp: 605302

Ion Ratio Lower Upper

91 100

120 23.6 12.3 36.9





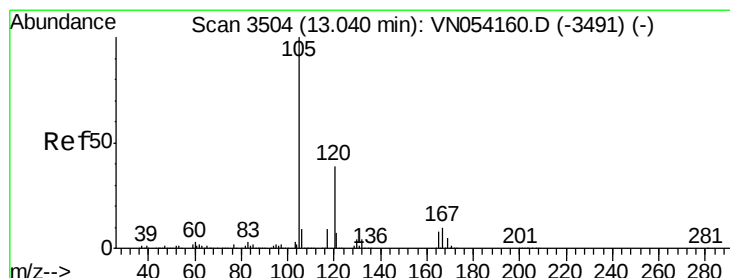
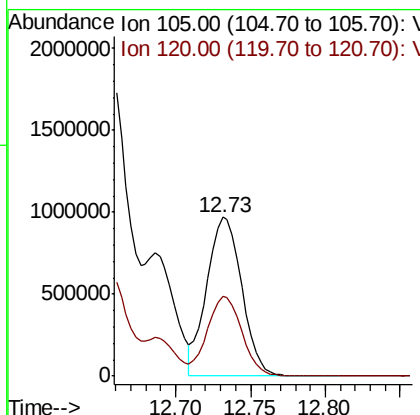
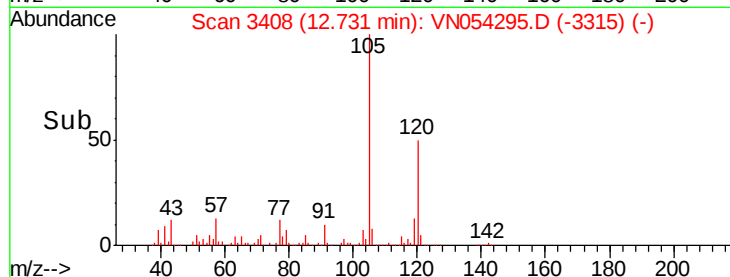
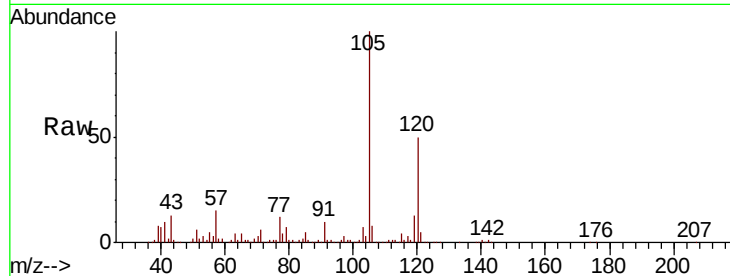
#80
 1,3,5-Trimethylbenzene
 Concen: 20.678 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN054295.D
 Acq: 15 Mar 2019 7:18

Instrument :
 MSVOA_N
 ClientSampled :
 30302

Tgt Ion:105 Resp: 1579015
 Ion Ratio Lower Upper
 105 100
 120 49.6 25.0 75.0

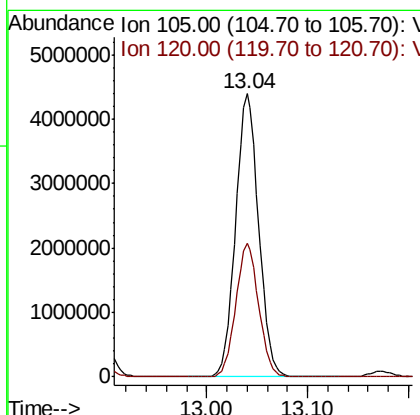
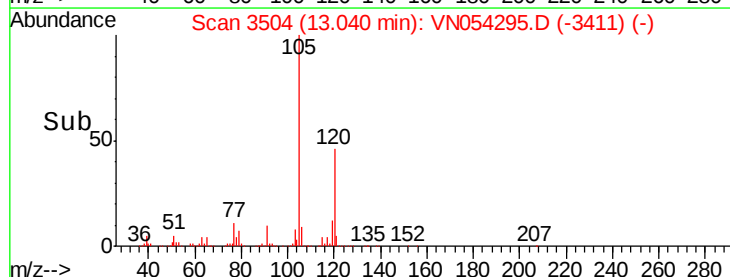
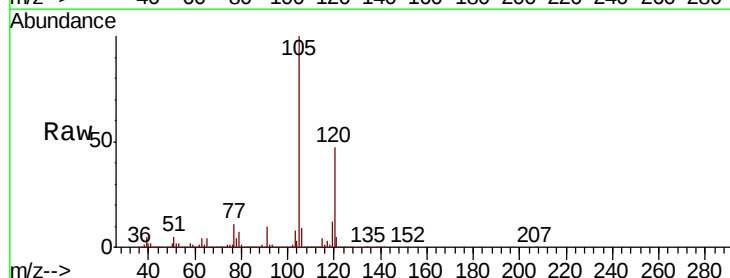
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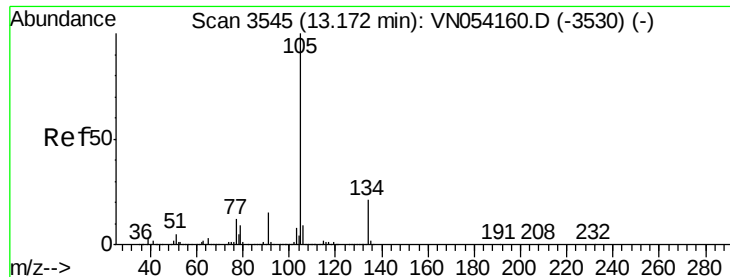
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 3/15/2019 10:15:00 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 92.802 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054295.D
 Acq: 15 Mar 2019 7:18

Tgt Ion:105 Resp: 6952115
 Ion Ratio Lower Upper
 105 100
 120 46.8 23.4 70.3





#85

sec-Butylbenzene

Concen: 1.559 ug/l m

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054295.D

Acq: 15 Mar 2019 7:18

Instrument :

MSVOA_N

ClientSampled :

30302

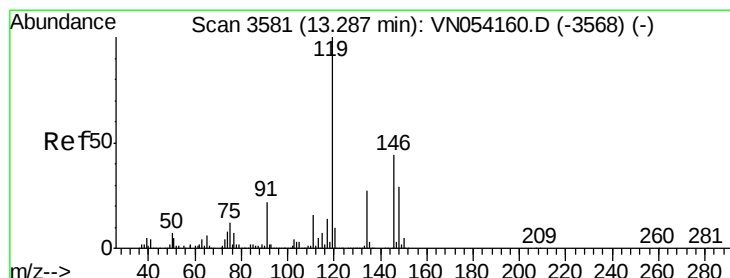
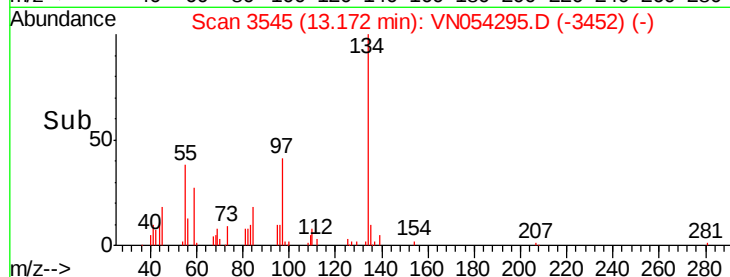
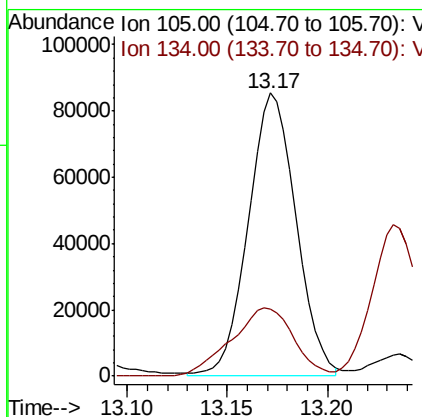
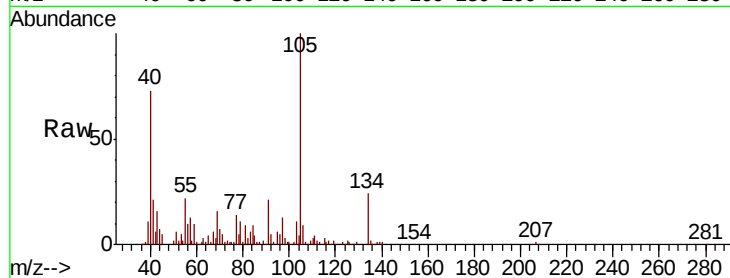
Tgt Ion:105 Resp: 142127
Ion Ratio Lower Upper

105 100

134 0.0 10.7 32.1#

Manual Integrations
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3/15/2019 10:15:00 AM



#86

p-Isopropyltoluene

Concen: 1.619 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054295.D

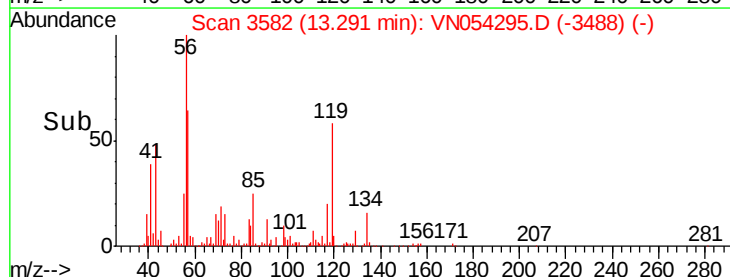
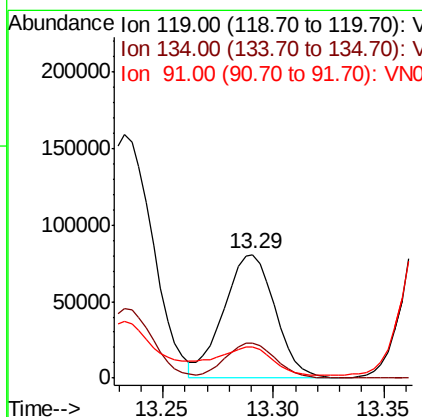
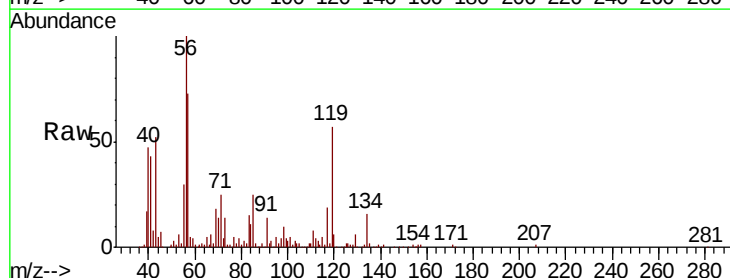
Acq: 15 Mar 2019 7:18

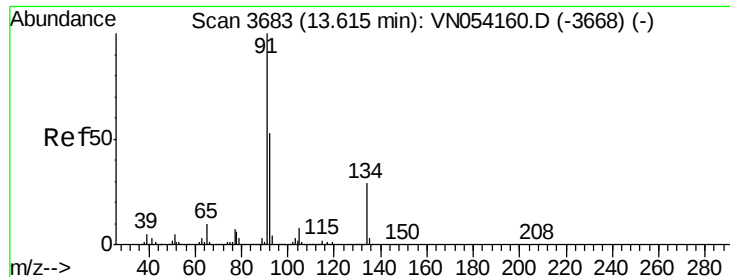
Tgt Ion:119 Resp: 129469
Ion Ratio Lower Upper

119 100

134 26.9 13.6 40.8

91 22.2 11.1 33.3





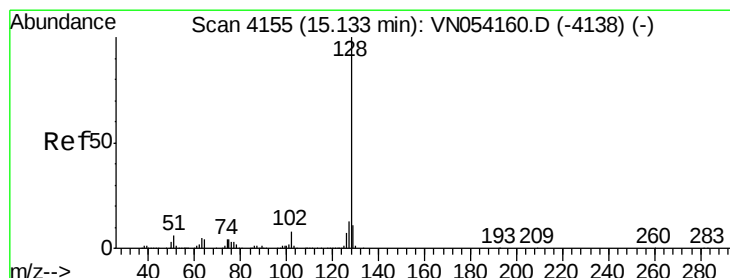
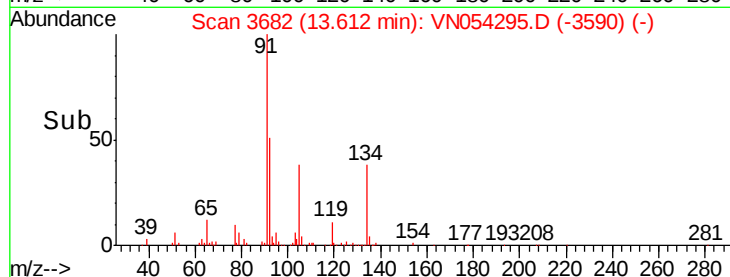
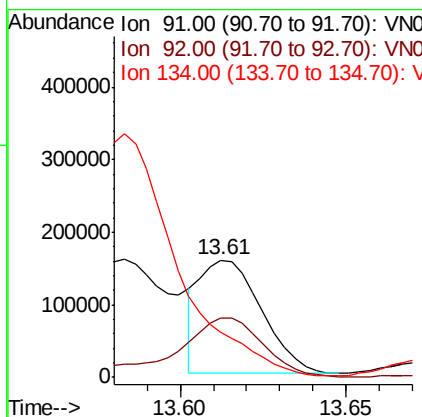
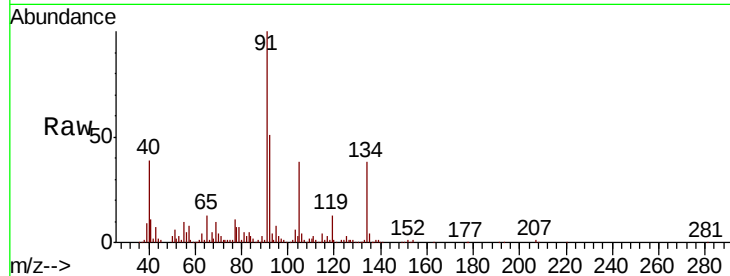
#89
n-Butylbenzene
Concen: 3.302 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Instrument :
MSVOA_N
ClientSampleId :
30302

Tgt Ion	Ratio	Lower	Upper
91	100		
92	73.7	26.2	78.6
134	0.0	14.3	42.9#

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#95
Naphthalene
Concen: 45.700 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054295.D
Acq: 15 Mar 2019 7:18

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.1	15.1
129	11.4	8.7	13.1

