

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091418\
 Data File : VX004569.D
 Acq On : 15 Sep 2018 07:36
 Operator : JC/MD
 Sample : J4925-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0260

Manual Integrations
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 9/17/2018 5:09:30 PM

Quant Time: Sep 17 01:14:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	283426	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	377794	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	342027	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198720	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	172082	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
35) Dibromofluoromethane	5.50	113	154910	44.81	ug/l	0.00
Spiked Amount			Recovery	=	89.62%	
50) Toluene-d8	8.72	98	548175	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
62) 4-Bromofluorobenzene	11.14	95	187408	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Cyclohexane	5.58	56	1322493	250.17	ug/l	96
39) Methylcyclohexane	7.46	83	1101610	230.16	ug/l	96
40) Benzene	6.15	78	106287	7.81	ug/l	97
52) Toluene	8.79	92	17183	2.14	ug/l	96
67) Ethyl Benzene	10.26	91	11656762	843.82	ug/l #	87
68) m/p-Xylenes	10.36	106	1865432	350.56	ug/l	99
69) o-Xylene	10.70	106	320725	62.69	ug/l	99
73) Isopropylbenzene	11.02	105	960576	73.40	ug/l	100
78) n-propylbenzene	11.36	91	1275743	84.78	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	1141424	103.75	ug/l	98
83) tert-Butylbenzene	11.77	119	23323m	2.23	ug/l	
84) 1,2,4-Trimethylbenzene	11.81	105	6700000	596.45	ug/l	94
85) sec-Butylbenzene	11.95	105	171261m	12.83	ug/l	
86) p-Isopropyltoluene	12.07	119	177797	15.08	ug/l	98
89) n-Butylbenzene	12.39	91	194034	18.06	ug/l #	27
95) Naphthalene	13.83	128	3486836	257.02	ug/l	100

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

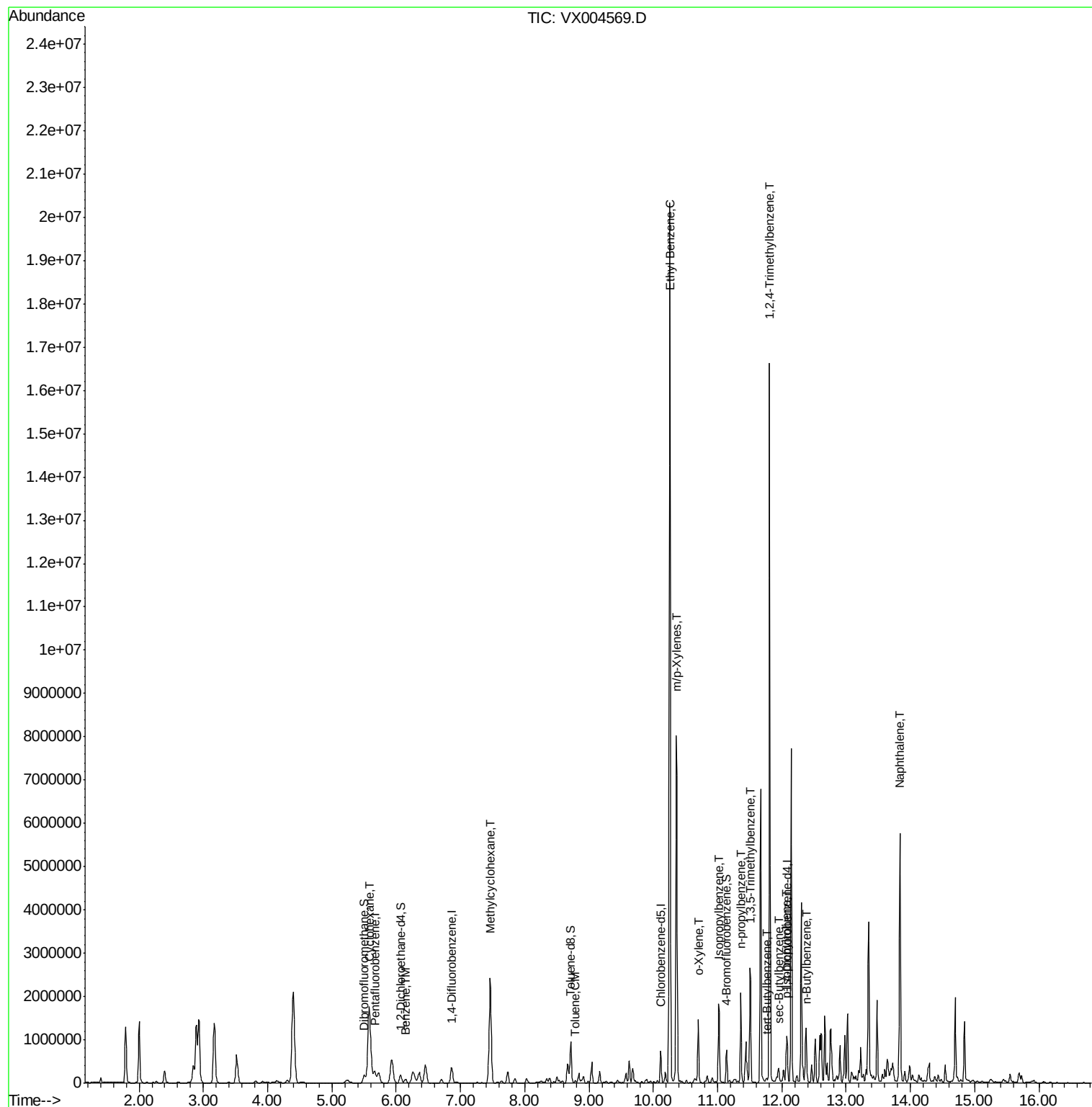
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004569.D
Acq On : 15 Sep 2018 07:36
Operator : JC/MD
Sample : J4925-13
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 43 Sample Multiplier: 1

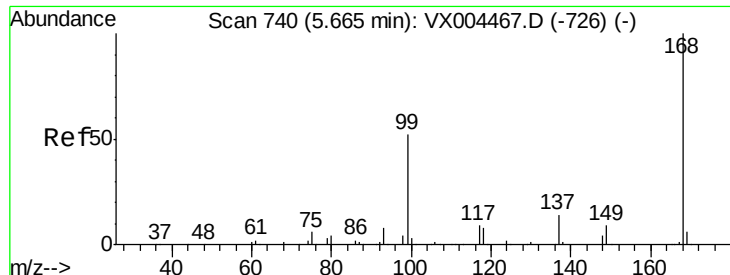
Instrument :
MSVOA_X
ClientSampleId :
S13-0260

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Quant Time: Sep 17 01:14:59 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

Instrument :

MSVOA_X

ClientSampled :

S13-0260

Tot Ion:168 Resp: 283426

Ion Ratio Lower Upper

168 100

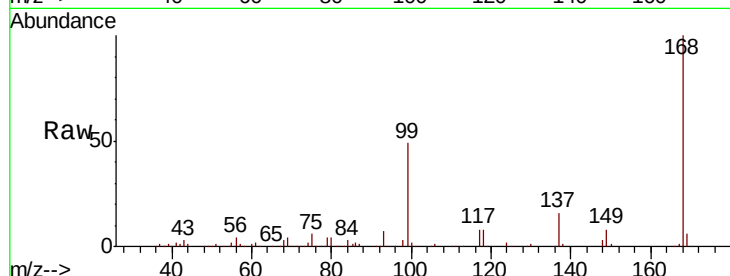
99 48.5 39.9 59.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

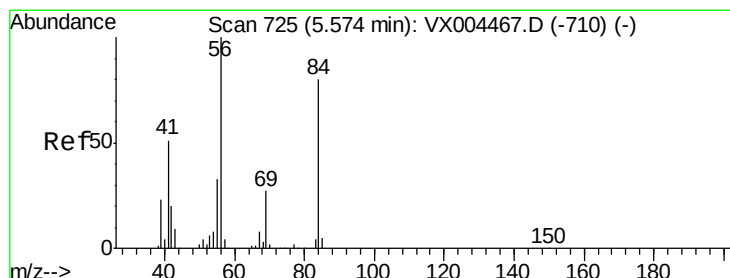
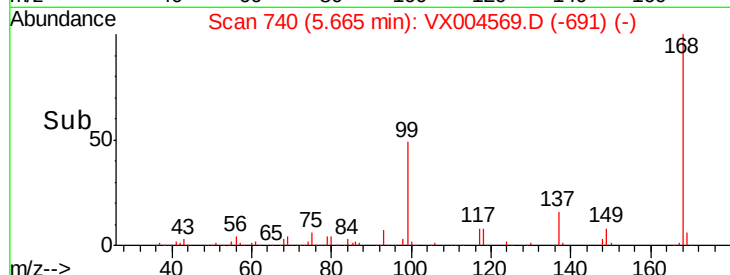
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#31

Cyclohexane

Concen: 250.17 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.01 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

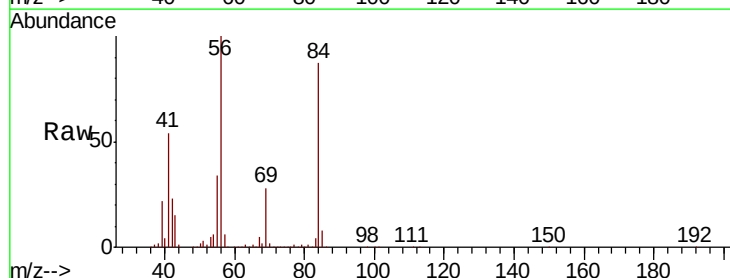
Tgt Ion: 56 Resp: 1322493

Ion Ratio Lower Upper

56 100

69 28.1 25.4 38.2

84 87.0 71.4 107.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

5.58

500000

400000

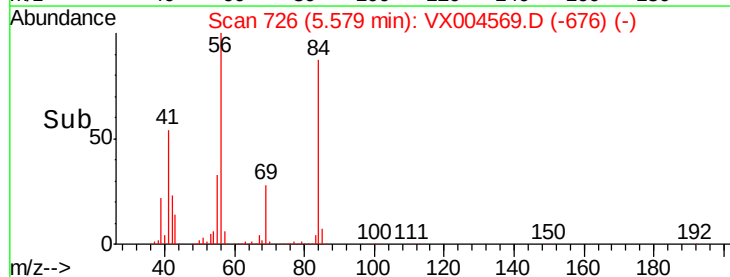
300000

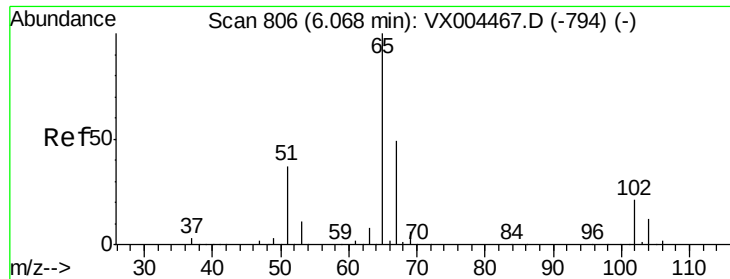
200000

100000

0

Time--> 5.40 5.50 5.60 5.70





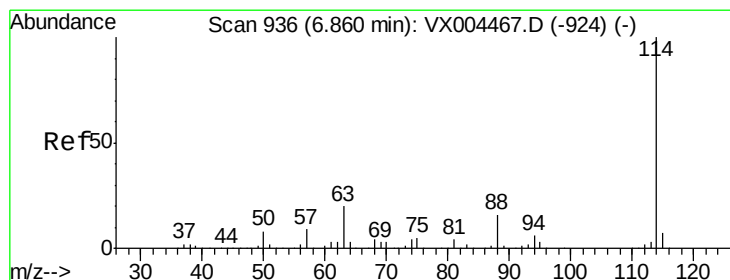
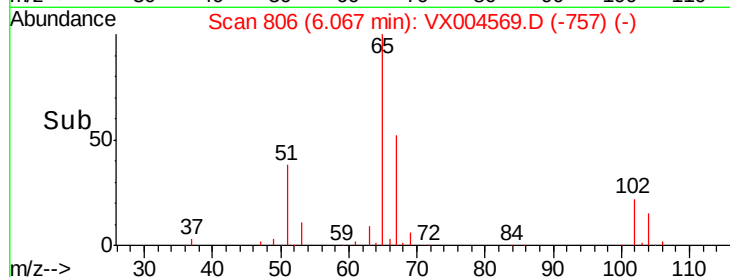
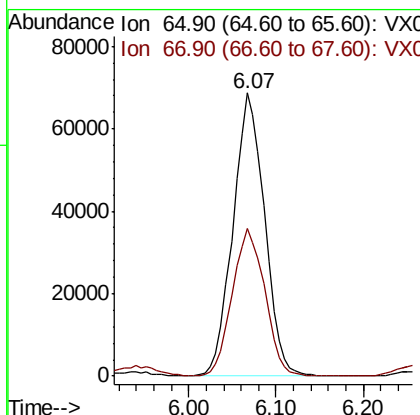
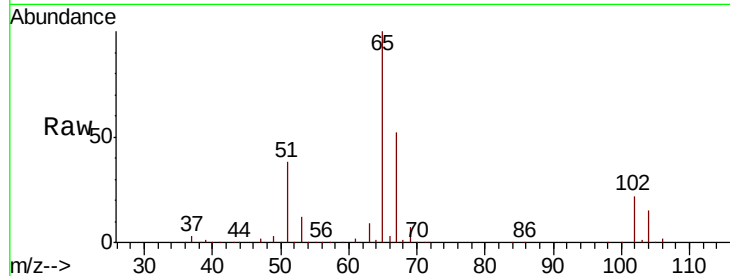
#33
 1,2-Dichloroethane-d4
 Concen: 47.09 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004569.D
 Acq: 15 Sep 2018 07:36

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0260

Tot Ion	Ratio	Resp	Lower	Upper
65	100	172082		
67	53.8	0.0	106.8	

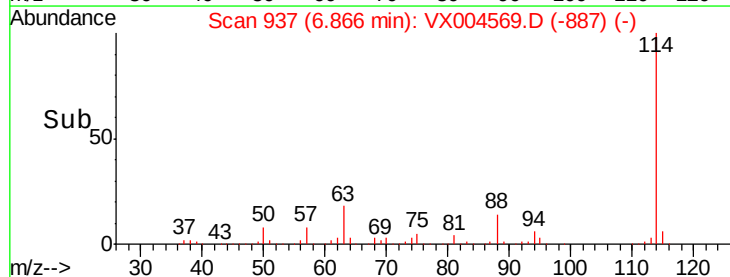
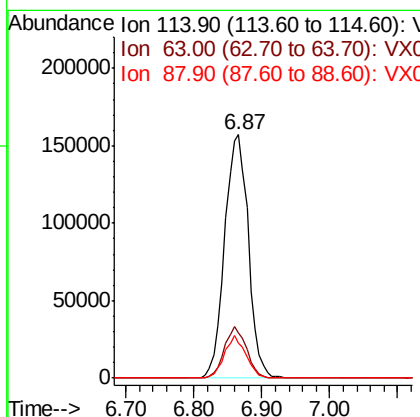
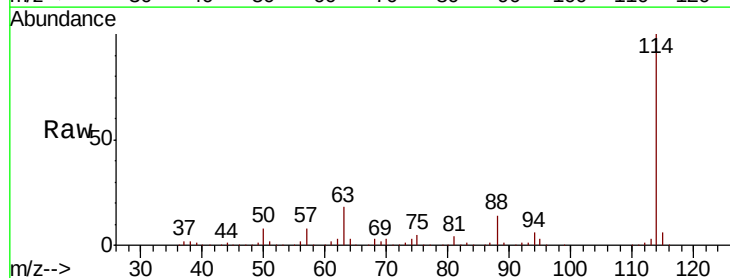
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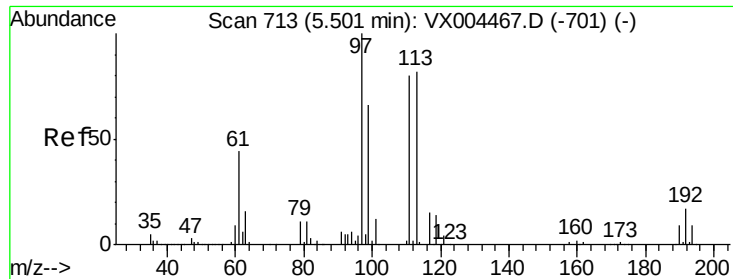
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004569.D
 Acq: 15 Sep 2018 07:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	377794		
63	18.4	0.0	39.0	
88	14.4	0.0	30.4	





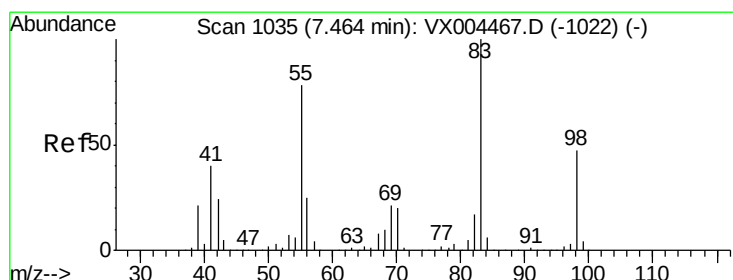
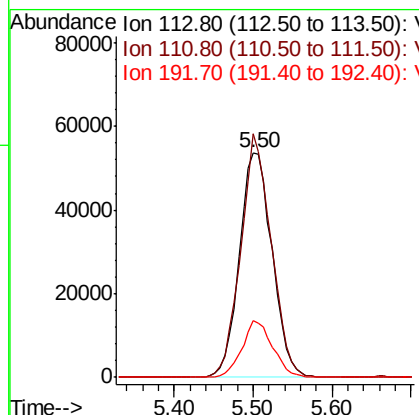
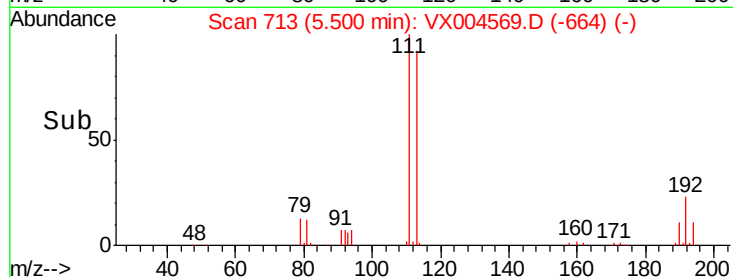
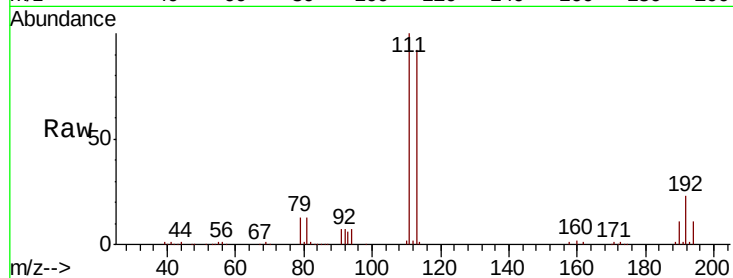
#35
 Dibromofluoromethane
 Concen: 44.81 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004569.D
 Acq: 15 Sep 2018 07:36

Instrument :
 MSVOA_X
 ClientSampled :
 S13-0260

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.4	123.6
192	23.4	19.4	29.2

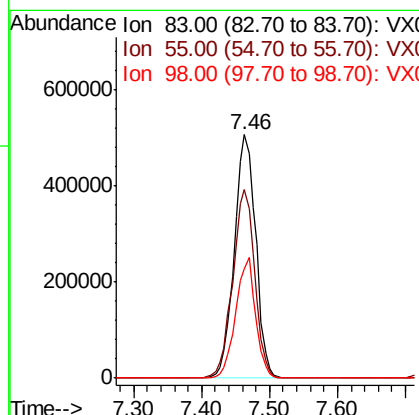
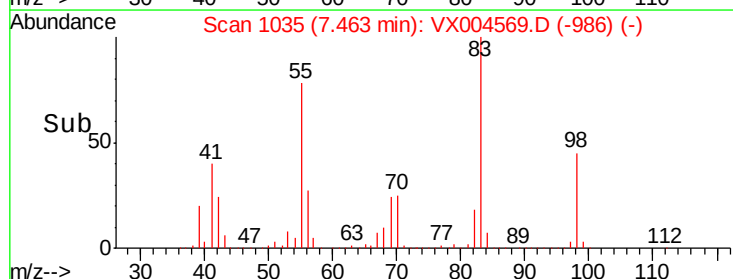
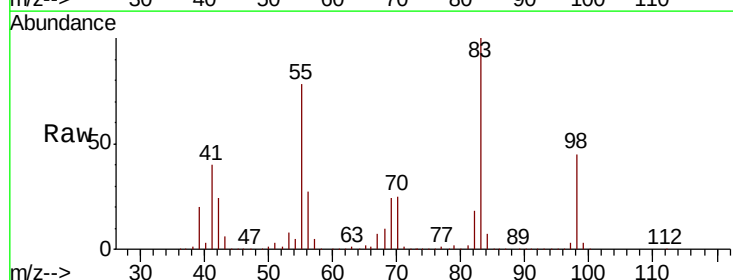
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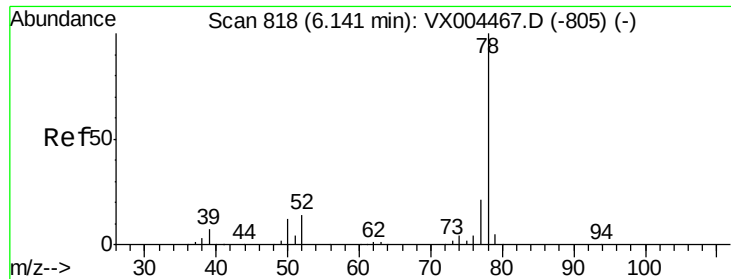
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#39
 Methylcyclohexane
 Concen: 230.16 ug/l
 RT: 7.46 min Scan# 1035
 Delta R.T. -0.00 min
 Lab File: VX004569.D
 Acq: 15 Sep 2018 07:36

Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.7	61.0	91.4
98	44.6	39.6	59.4





#40

Benzene

Concen: 7.81 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

Instrument :

MSVOA_X

ClientSampleId :

S13-0260

Tot Ion: 78 Resp: 106287

Ion Ratio Lower Upper

78 100

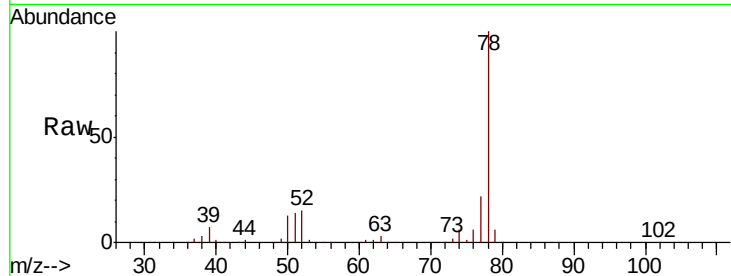
77 22.2 19.0 28.4

Manual Integrations

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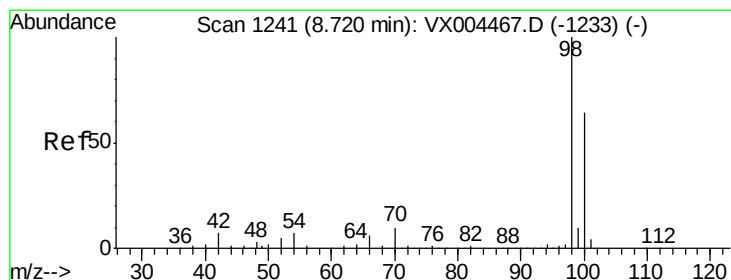
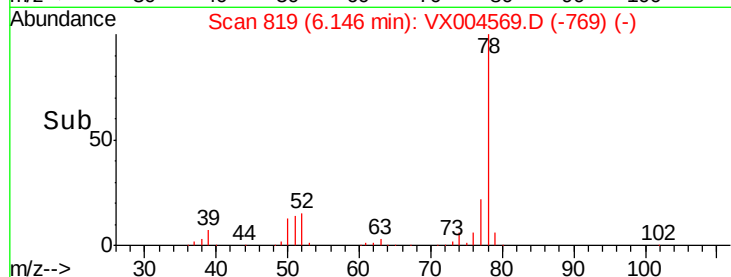
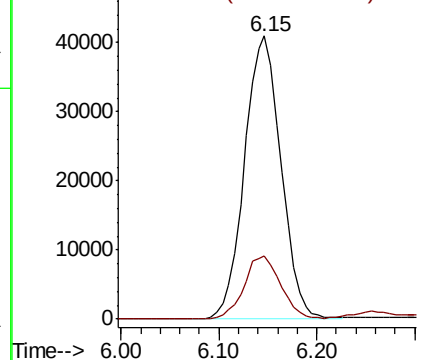
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Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 47.28 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004569.D

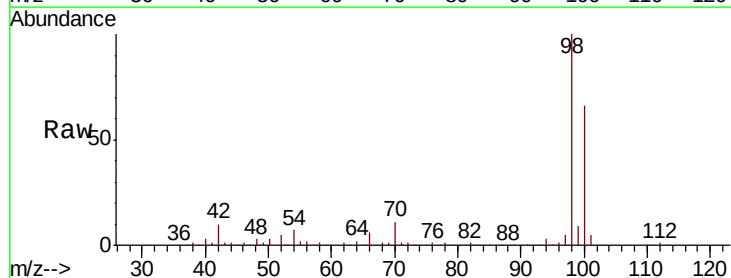
Acq: 15 Sep 2018 07:36

Tgt Ion: 98 Resp: 548175

Ion Ratio Lower Upper

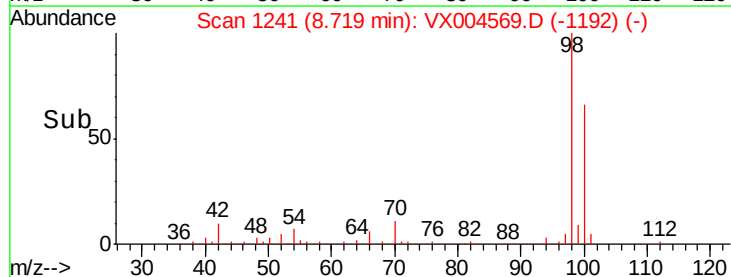
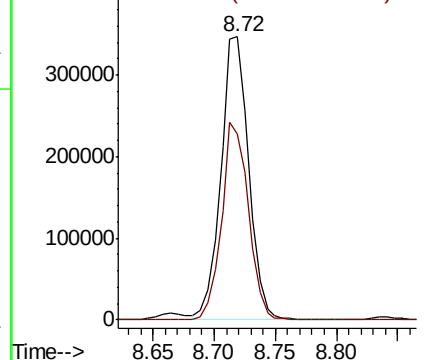
98 100

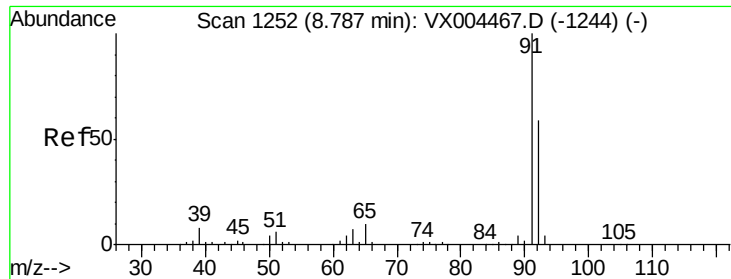
100 67.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 2.14 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

Instrument :

MSVOA_X

ClientSampled :

S13-0260

Tot Ion: 92 Resp: 17183

Ion Ratio Lower Upper

92 100

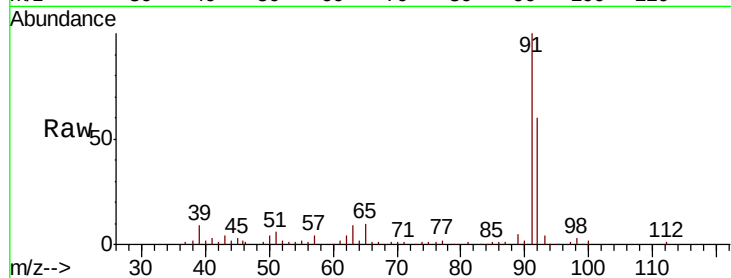
91 175.7 136.4 204.6

Manual Integrations

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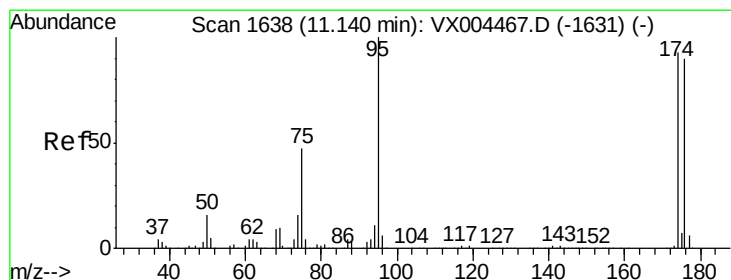
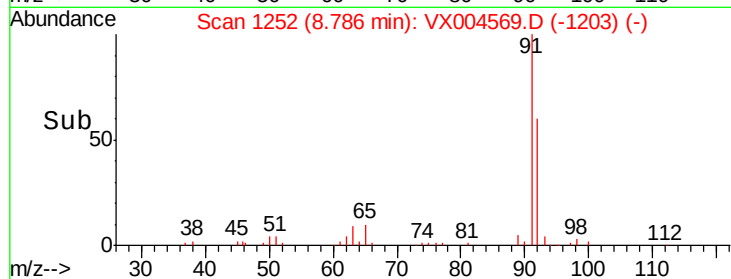
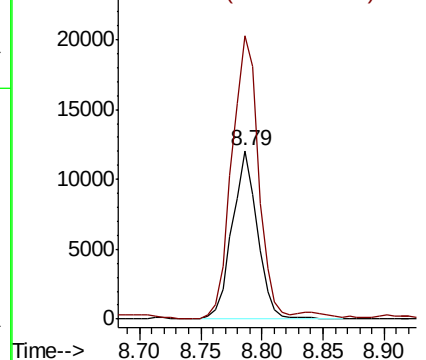
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Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.28 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

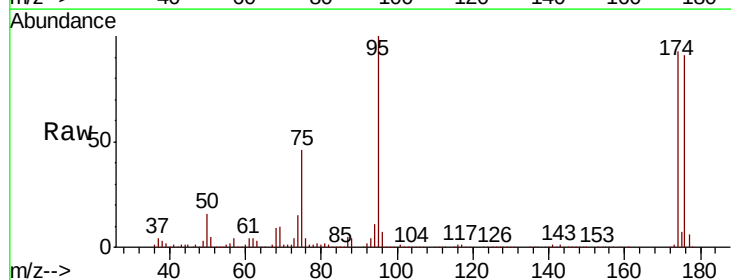
Tgt Ion: 95 Resp: 187408

Ion Ratio Lower Upper

95 100

174 92.5 0.0 185.2

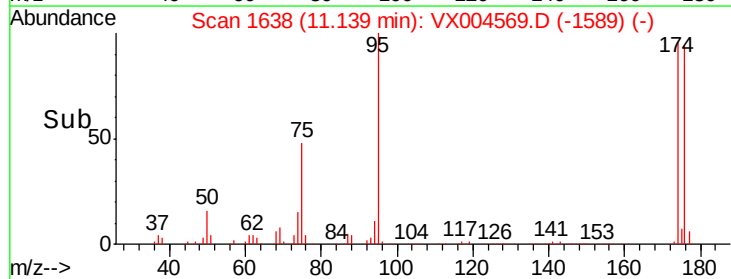
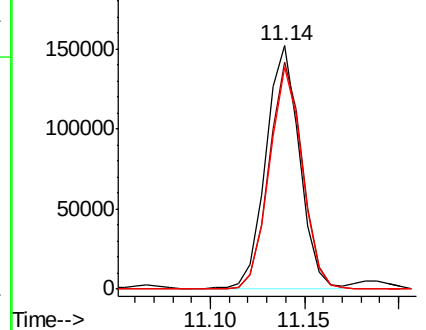
176 89.8 0.0 178.6

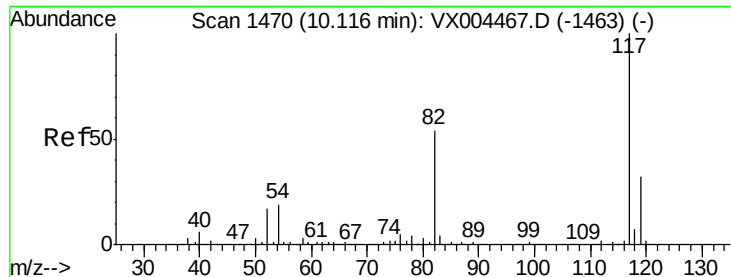


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





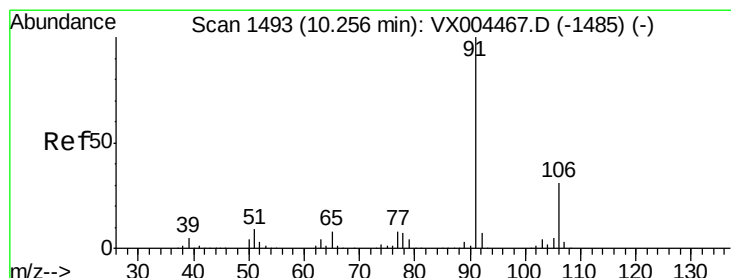
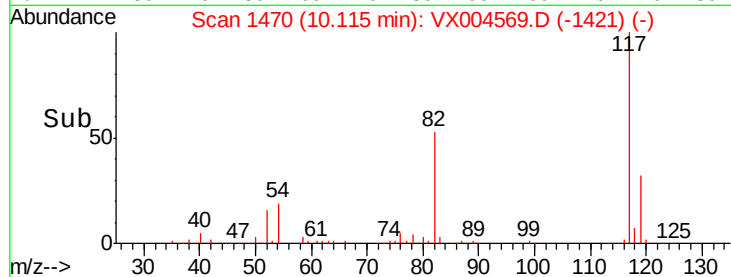
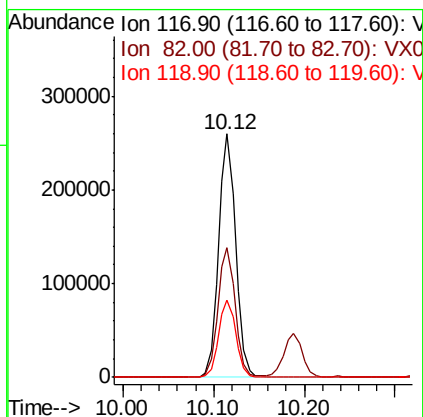
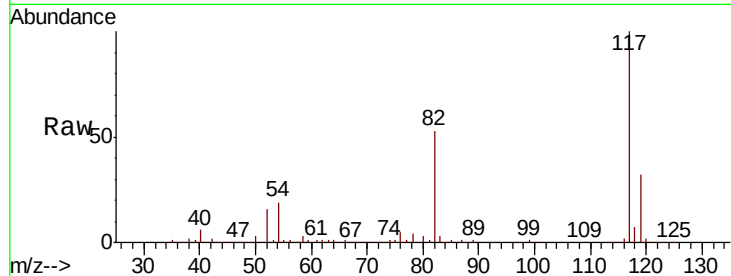
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004569.D
Acq: 15 Sep 2018 07:36

Instrument :
MSVOA_X
ClientSampled :
S13-0260

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	47.8	71.6
119	31.9	29.3	43.9

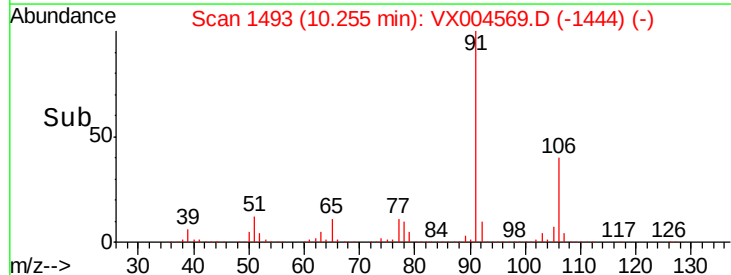
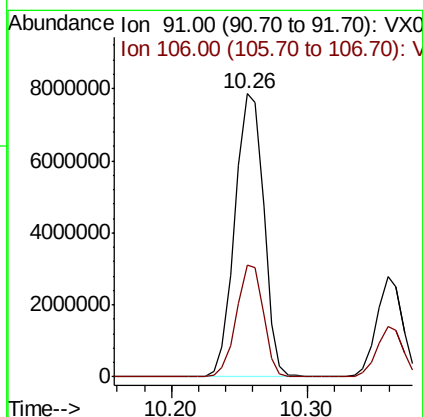
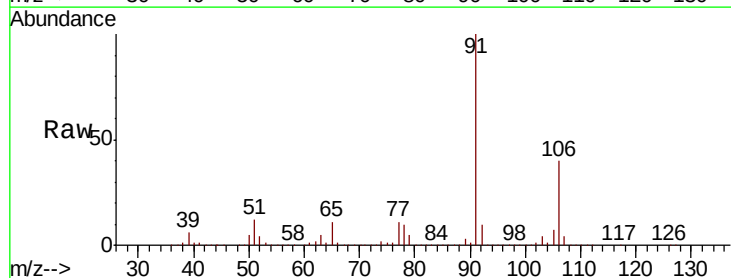
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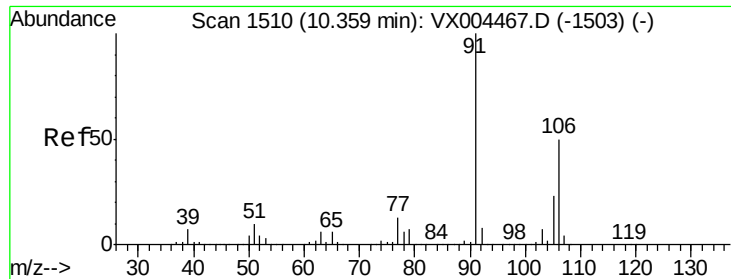
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#67
Ethyl Benzene
Concen: 843.82 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VX004569.D
Acq: 15 Sep 2018 07:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	39.7	25.9	38.9#





#68

m/p-Xylenes

Concen: 350.56 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

Instrument :

MSVOA_X

ClientSampled :

S13-0260

Tot Ion:106 Resp: 1865432

Ion Ratio Lower Upper

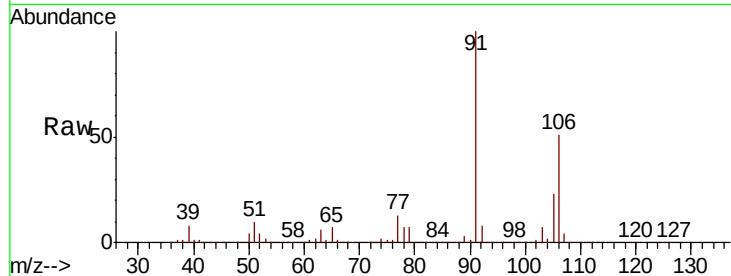
106 100

91 197.8 157.1 235.7

Manual Integrations
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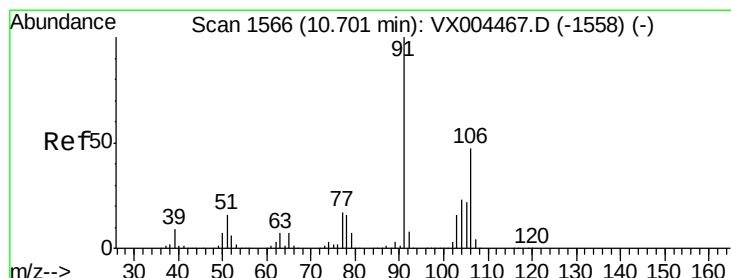
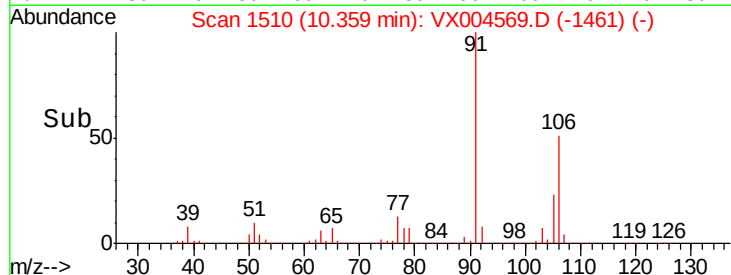
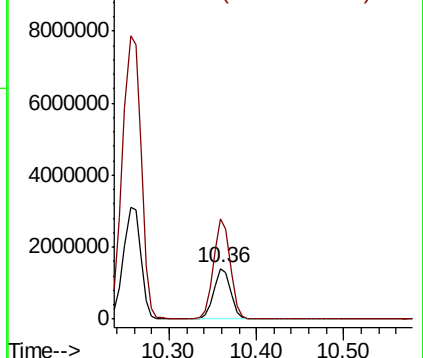
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 62.69 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VX004569.D

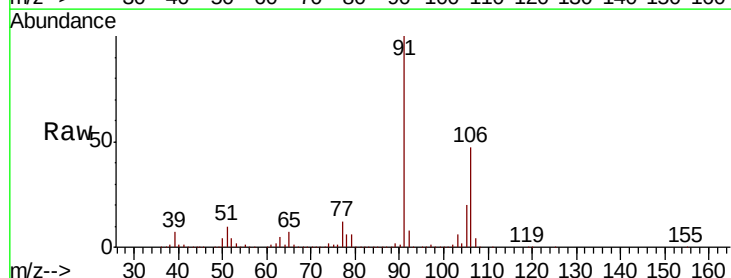
Acq: 15 Sep 2018 07:36

Tgt Ion:106 Resp: 320725

Ion Ratio Lower Upper

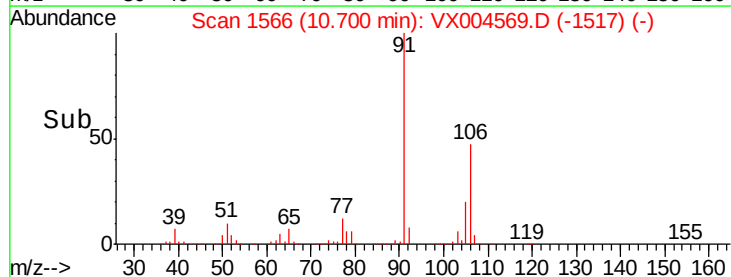
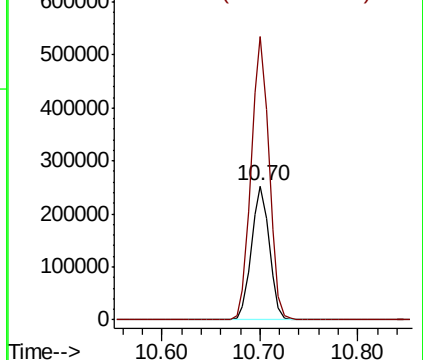
106 100

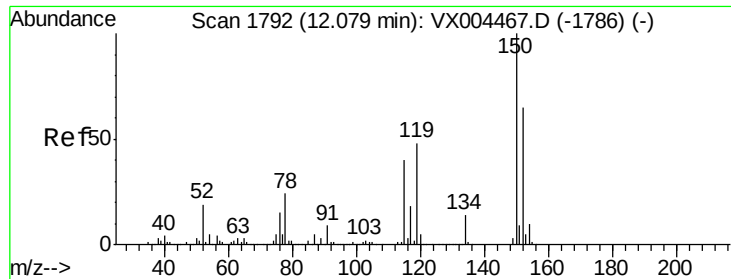
91 212.0 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

Instrument :

MSVOA_X

ClientSampleId :

S13-0260

Tot Ion:152 Resp: 198720

Ion Ratio Lower Upper

152 100

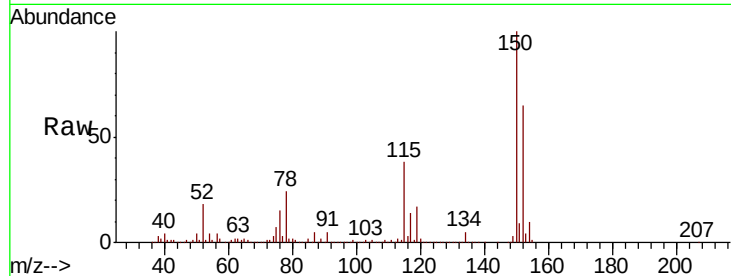
115 64.7 39.0 117.0

150 156.4 0.0 351.0

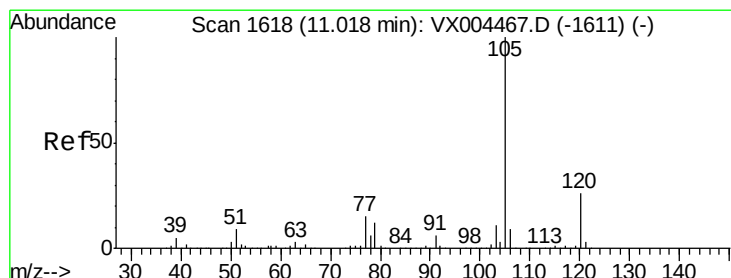
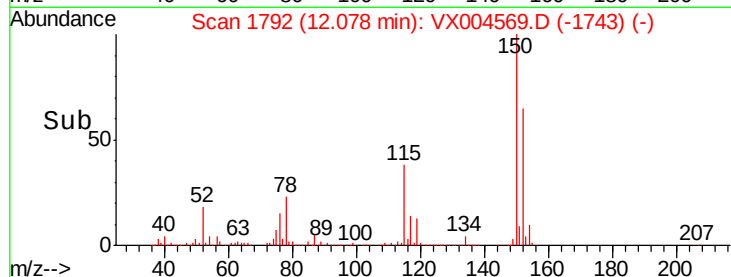
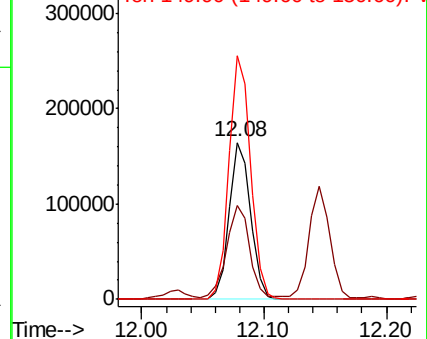
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Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 73.40 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX004569.D

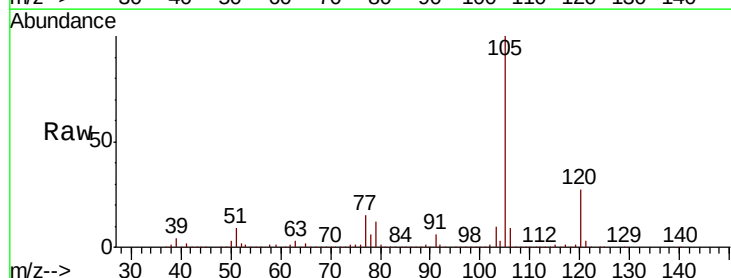
Acq: 15 Sep 2018 07:36

Tgt Ion:105 Resp: 960576

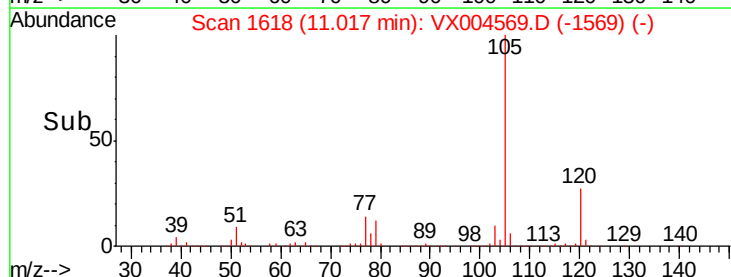
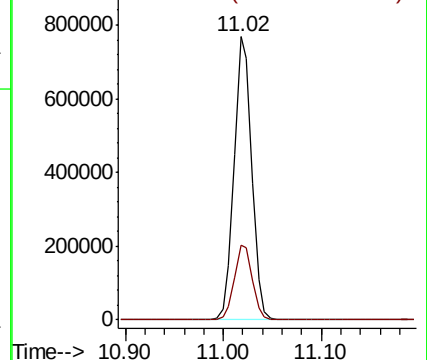
Ion Ratio Lower Upper

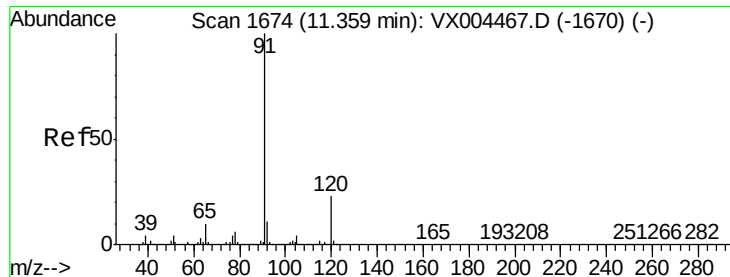
105 100

120 27.0 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 84.78 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

Instrument :

MSVOA_X

ClientSampled :

S13-0260

Tot Ion: 91 Resp: 1275743

Ion Ratio Lower Upper

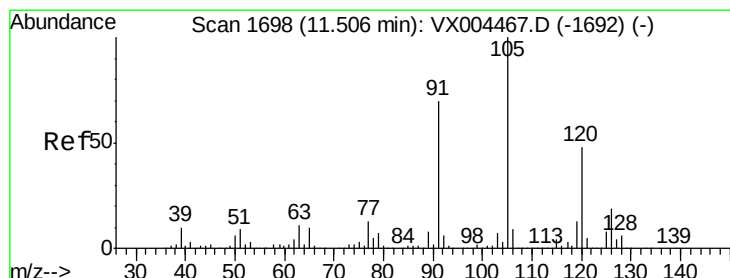
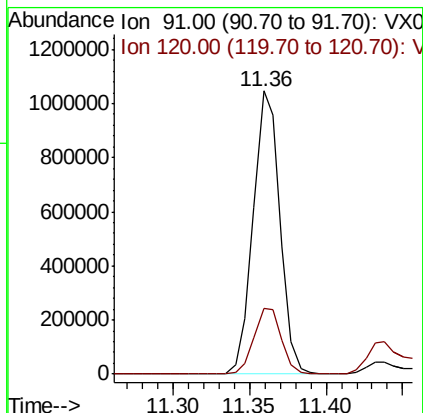
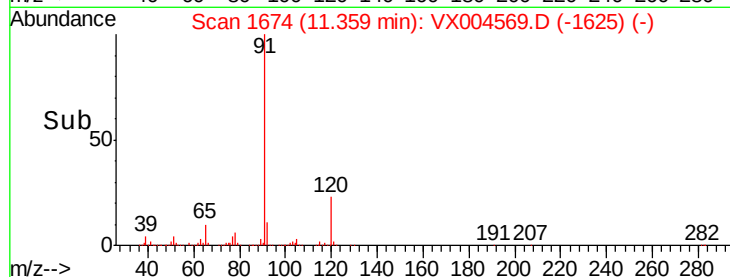
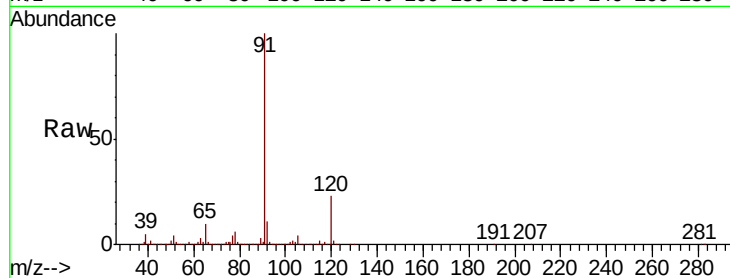
91 100

120 23.8 11.9 35.9

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#80

1,3,5-Trimethylbenzene

Concen: 103.75 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX004569.D

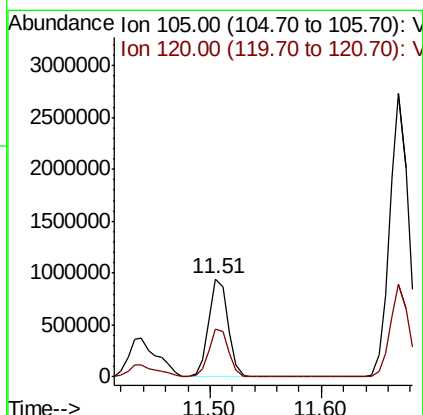
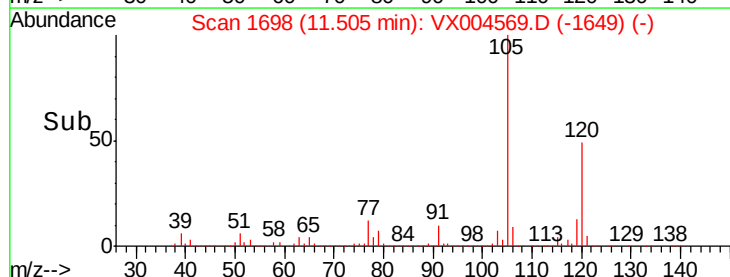
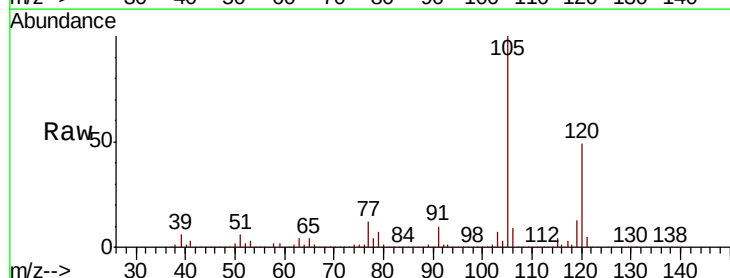
Acq: 15 Sep 2018 07:36

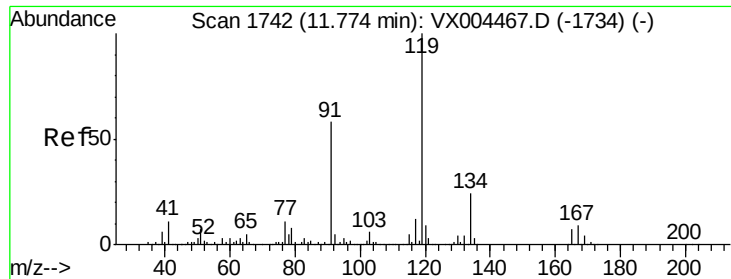
Tgt Ion:105 Resp: 1141424

Ion Ratio Lower Upper

105 100

120 49.9 25.6 76.8





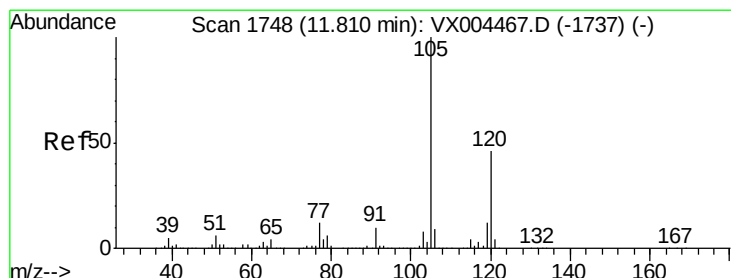
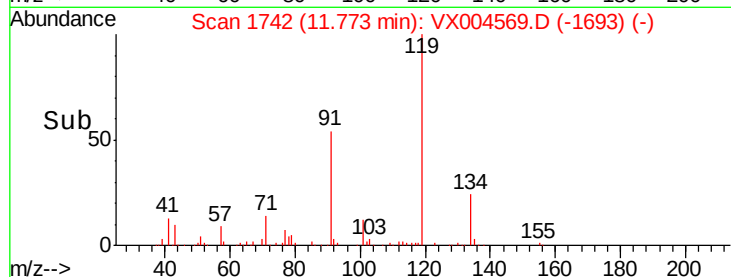
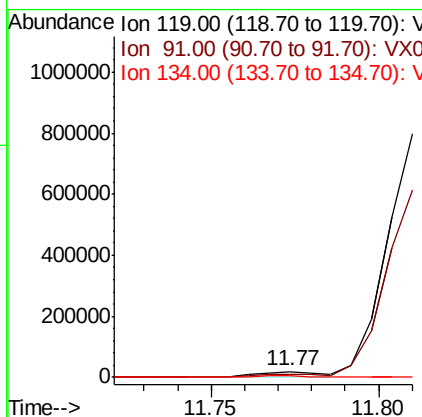
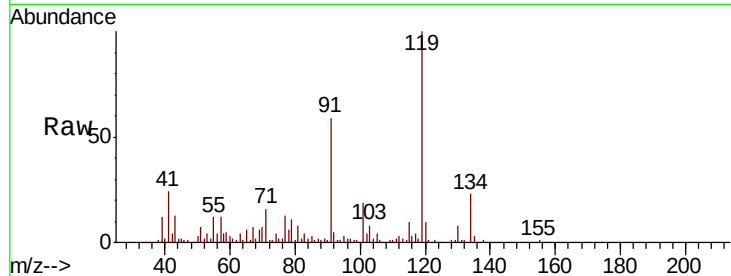
#83
 tert-Butylbenzene
 Concen: 2.23 ug/l m
 RT: 11.77 min Scan# 1742
 Delta R.T. -0.00 min
 Lab File: VX004569.D
 Acq: 15 Sep 2018 07:36

Instrument :
 MSVOA_X
 ClientSampled :
 S13-0260

Tot Ion:119 Resp: 23323
 Ion Ratio Lower Upper
 119 100
 91 3068.0 27.0 81.0
 134 0.0 11.7 35.1#

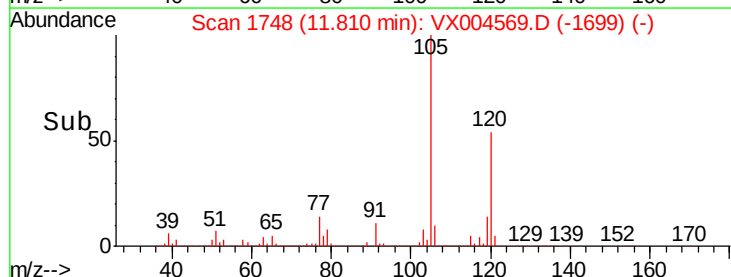
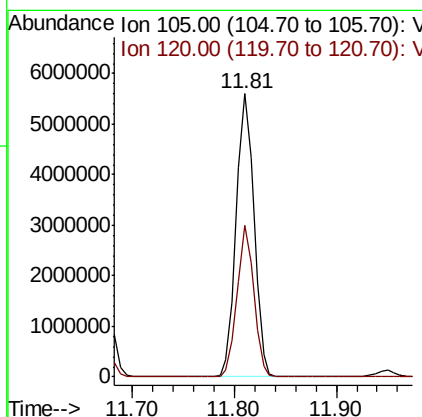
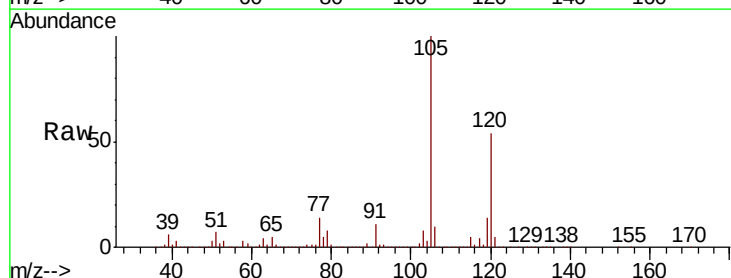
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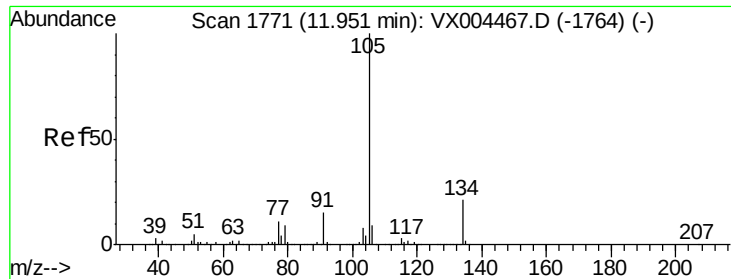
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#84
 1,2,4-Trimethylbenzene
 Concen: 596.45 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX004569.D
 Acq: 15 Sep 2018 07:36

Tgt Ion:105 Resp: 6700000
 Ion Ratio Lower Upper
 105 100
 120 50.2 23.2 69.6





#85

sec-Butylbenzene

Concen: 12.83 ug/l m

RT: 11.95 min Scan# 1771

Delta R.T. -0.00 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

Instrument :

MSVOA_X

ClientSampled :

S13-0260

Tot Ion:105 Resp: 171261

Ion Ratio Lower Upper

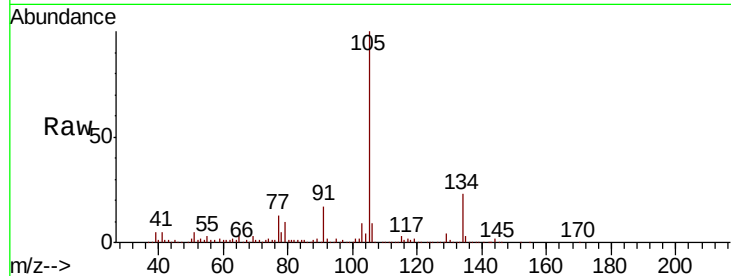
105 100

134 0.0 10.5 31.5#

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

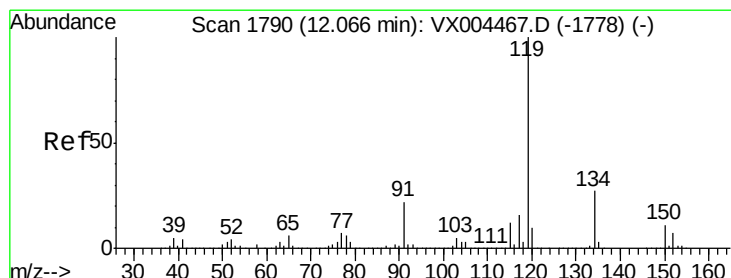
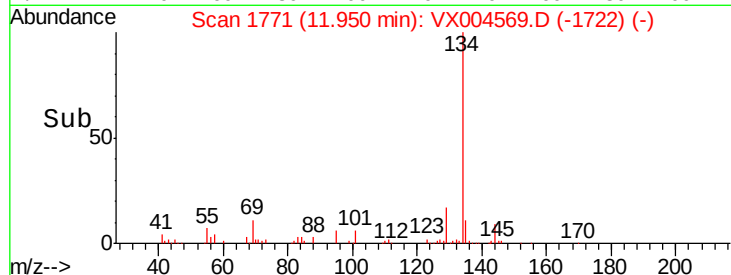
11.95

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 15.08 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. -0.00 min

Lab File: VX004569.D

Acq: 15 Sep 2018 07:36

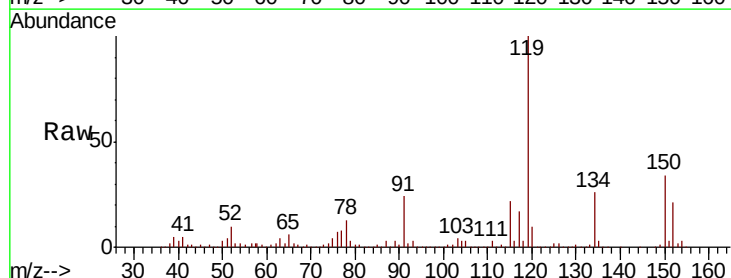
Tgt Ion:119 Resp: 177797

Ion Ratio Lower Upper

119 100

134 26.4 13.4 40.2

91 23.3 10.9 32.7



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): VX0

300000

250000

200000

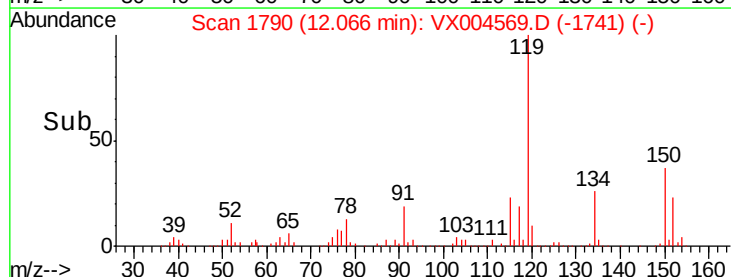
150000

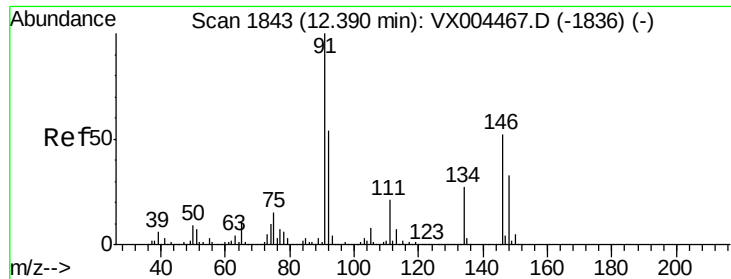
100000

50000

0

Time-->





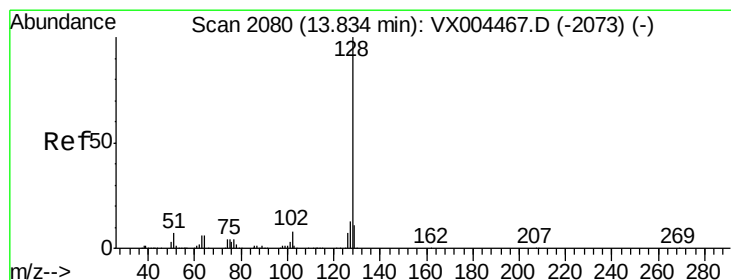
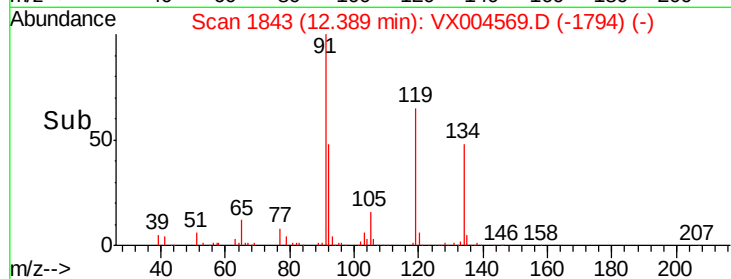
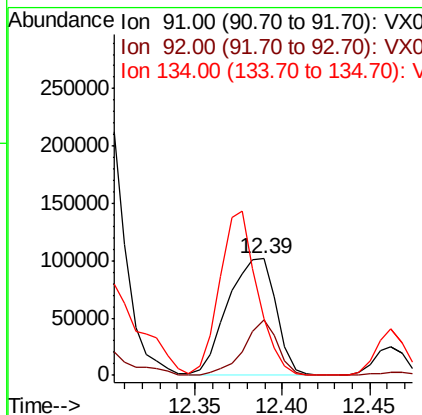
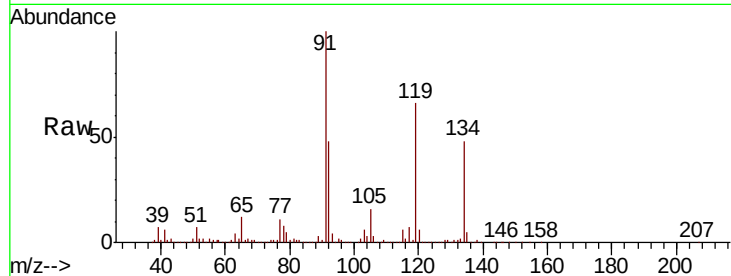
#89
n-Butylbenzene
Concen: 18.06 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX004569.D
Acq: 15 Sep 2018 07:36

Instrument :
MSVOA_X
ClientSampled :
S13-0260

Tot Ion	Ratio	Lower	Upper
91	100		
92	33.6	27.3	81.9
134	110.4	13.6	40.7#

Manual Integrations
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#95
Naphthalene
Concen: 257.02 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX004569.D
Acq: 15 Sep 2018 07:36

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.6	12.8

