

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021419\
 Data File : VX007524.D
 Acq On : 13 Feb 2019 16:57
 Operator : JC/SP
 Sample : K1460-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-901-20190207

Quant Time: Feb 14 03:26:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	540025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	839174	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	775328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	384134	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	287826	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
35) Dibromofluoromethane	5.50	113	265855	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
50) Toluene-d8	8.71	98	999991	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
62) 4-Bromofluorobenzene	11.13	95	364779	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	

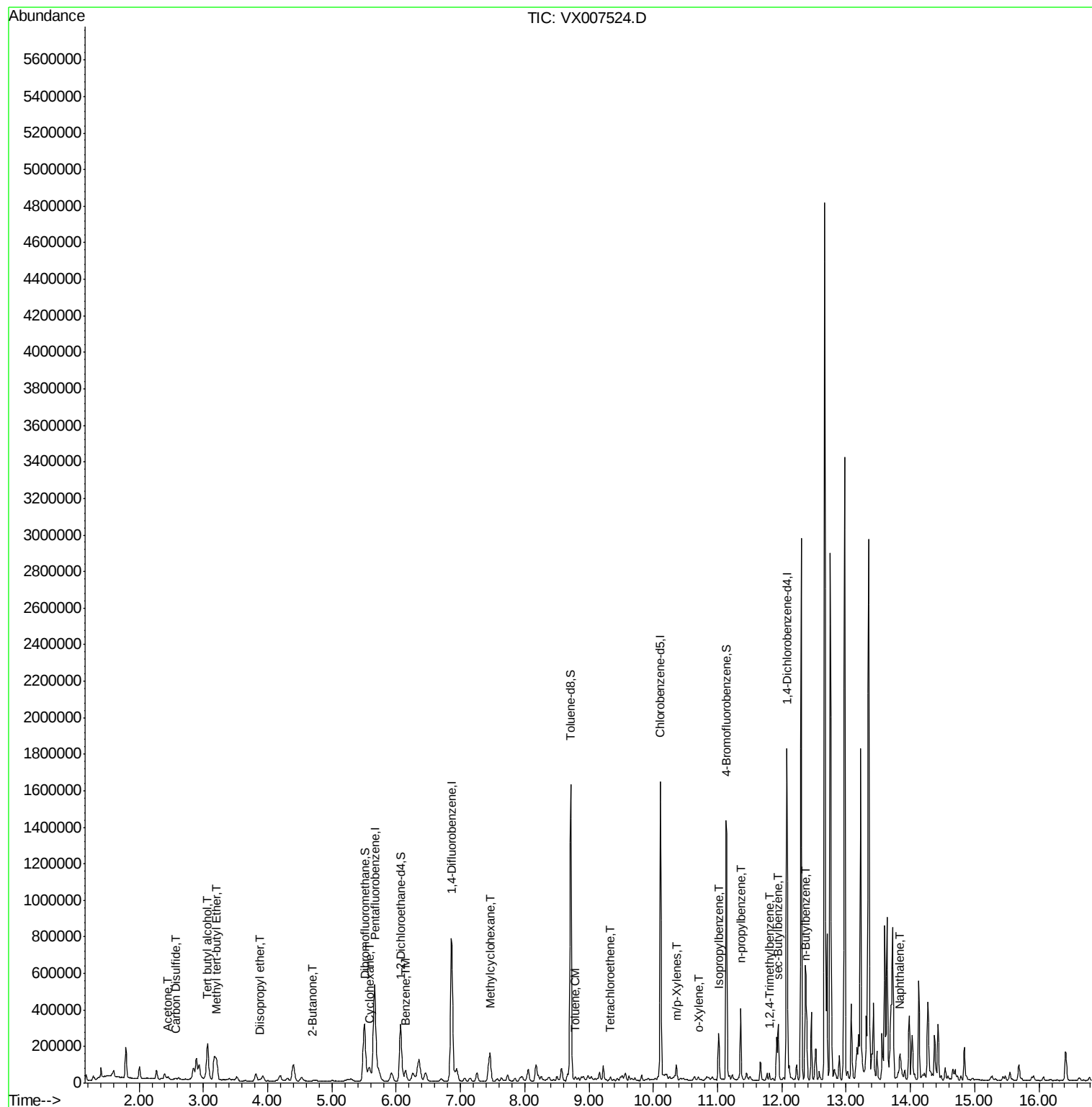
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.06	59	252115	212.535	ug/l	99
16) Acetone	2.45	43	14907	5.677	ug/l	93
17) Carbon Disulfide	2.57	76	7813	2.676	ug/l	97
19) Methyl tert-butyl Ether	3.21	73	113122	6.772	ug/l #	90
22) Diisopropyl ether	3.87	45	9852	0.638	ug/l #	81
25) 2-Butanone	4.70	43	9476	2.536	ug/l	97
31) Cyclohexane	5.57	56	50849	6.380	ug/l	94
39) Methylcyclohexane	7.46	83	67331	7.391	ug/l	95
40) Benzene	6.15	78	73605	3.319	ug/l	96
52) Toluene	8.79	92	6825	0.477	ug/l	93
64) Tetrachloroethene	9.34	164	4559	0.624	ug/l	86
68) m/p-Xylenes	10.36	106	18405	1.699	ug/l	98
69) o-Xylene	10.70	106	4616	0.443	ug/l	97
73) Isopropylbenzene	11.02	105	132408	5.072	ug/l	97
78) n-propylbenzene	11.36	91	231656	8.093	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	16281	0.751	ug/l	100
85) sec-Butylbenzene	11.94	105	152842	5.973	ug/l	97
89) n-Butylbenzene	12.38	91	188310	9.476	ug/l #	67
95) Naphthalene	13.83	128	88919	3.432	ug/l #	91

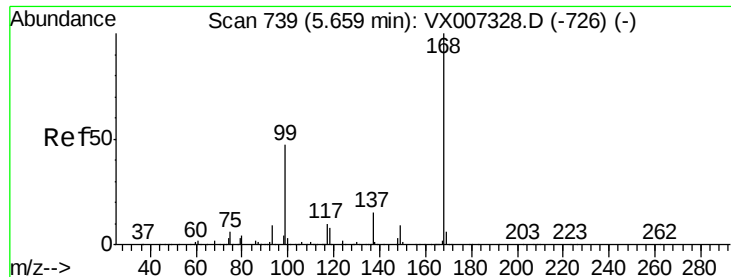
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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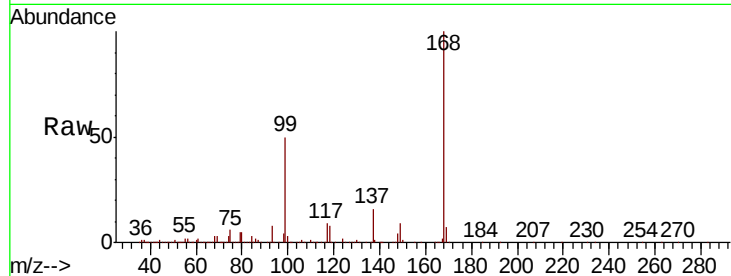


#1

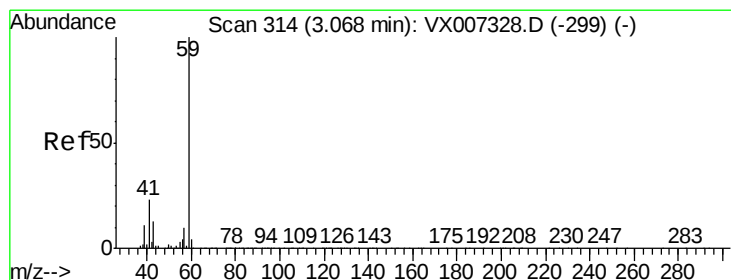
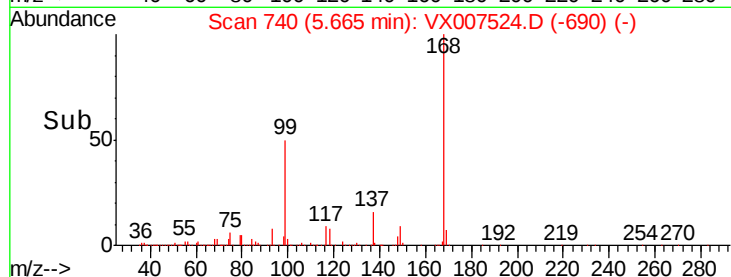
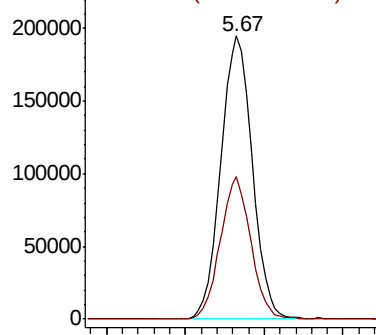
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. 0.01 min
 Lab File: VX007524.D
 Acq: 13 Feb 2019 16:57

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-901-20190207

Tot Ion:168 Resp: 540025
 Ion Ratio Lower Upper
 168 100
 99 50.2 37.9 56.9



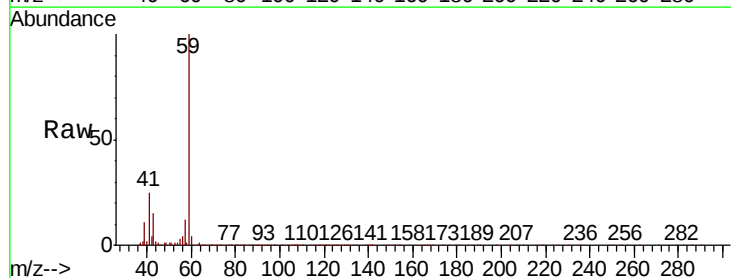
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



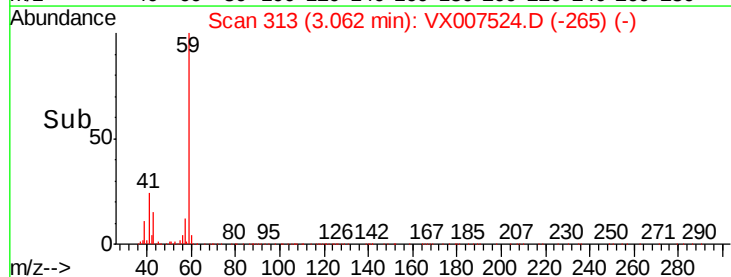
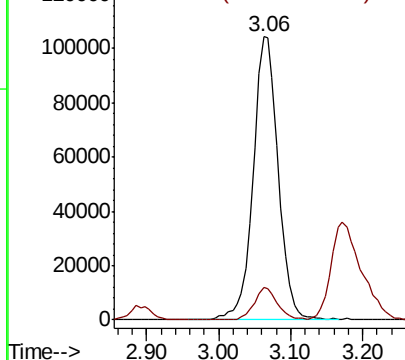
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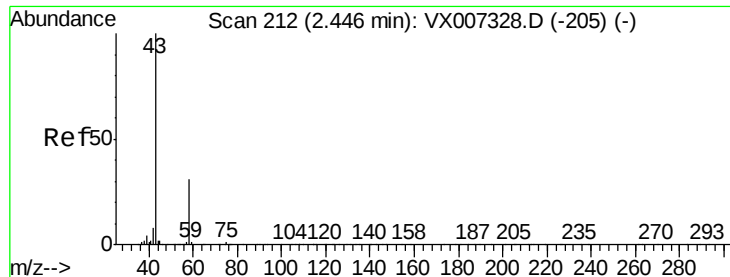
Tert butyl alcohol
 Concen: 212.535 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX007524.D
 Acq: 13 Feb 2019 16:57

Tgt Ion: 59 Resp: 252115
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.1 12.1



Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 5.677 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

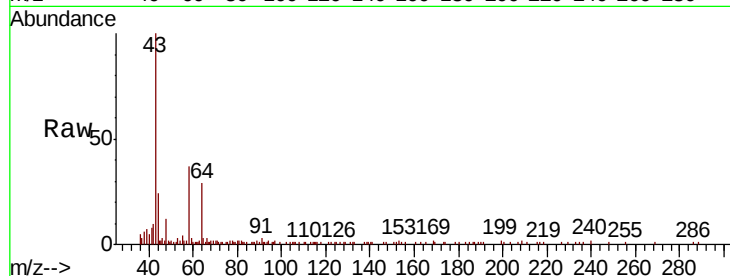
MW-901-20190207

Tot Ion: 43 Resp: 14907

Ion Ratio Lower Upper

43 100

58 35.2 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

10000

8000

6000

4000

2000

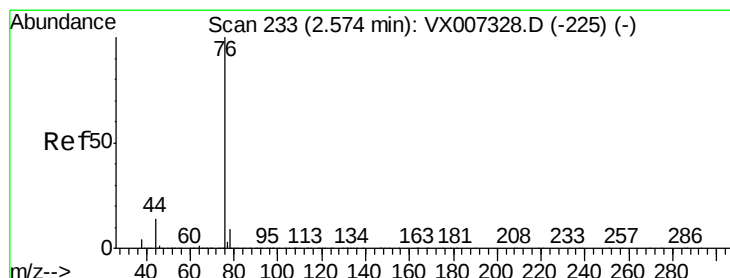
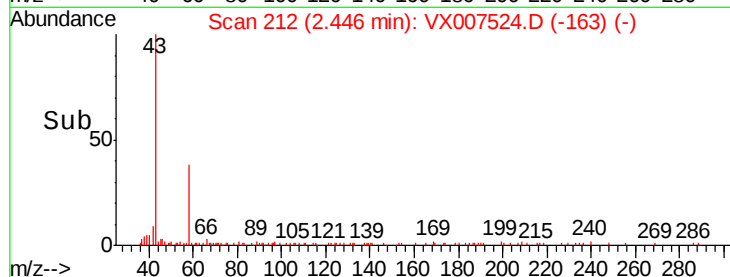
0

Time-->

2.40

2.45

2.50



#17

Carbon Disulfide

Concen: 2.676 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007524.D

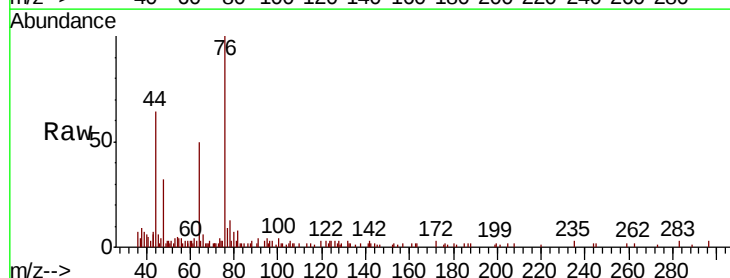
Acq: 13 Feb 2019 16:57

Tgt Ion: 76 Resp: 7813

Ion Ratio Lower Upper

76 100

78 10.1 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

5000

4000

3000

2000

1000

0

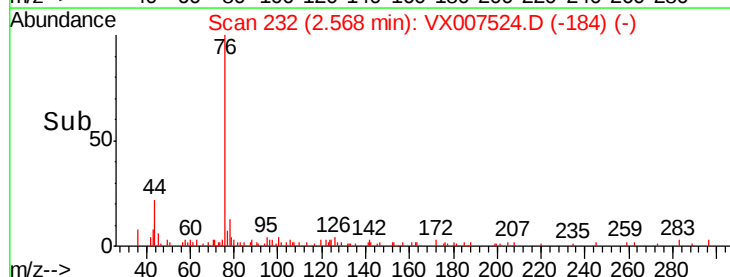
Time-->

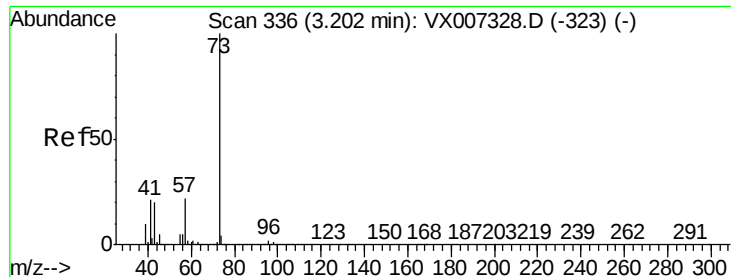
2.50

2.55

2.60

2.65

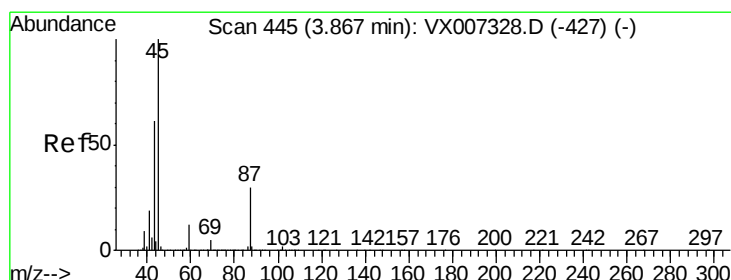
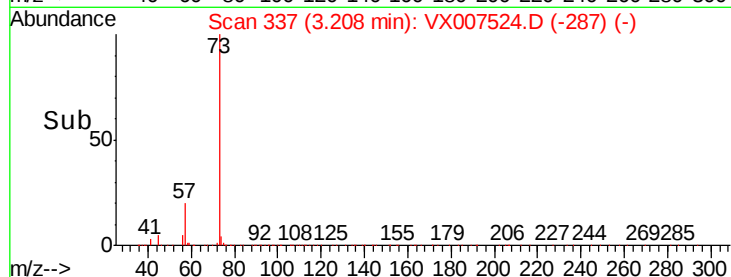
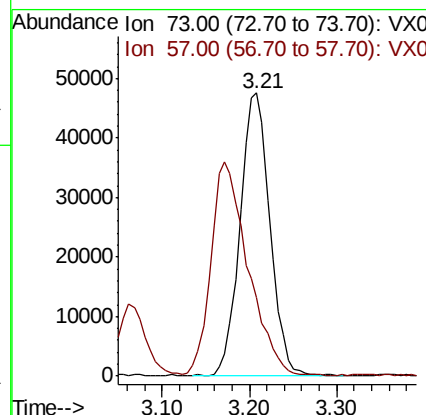
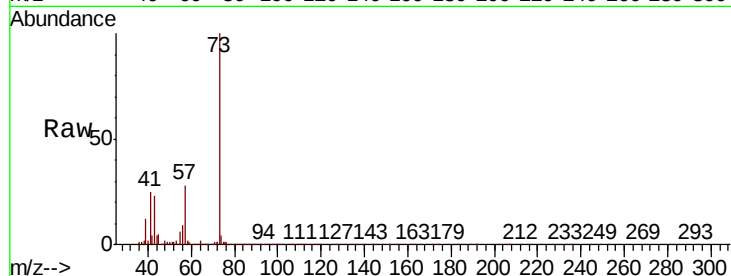




#19
Methyl tert-butyl Ether
Concen: 6.772 ug/l
RT: 3.21 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX007524.D
Acq: 13 Feb 2019 16:57

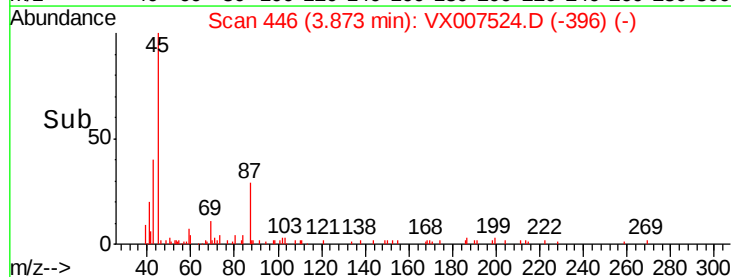
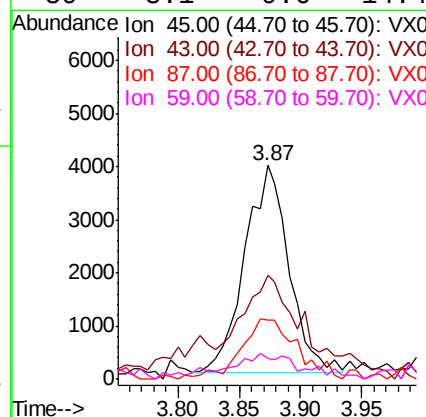
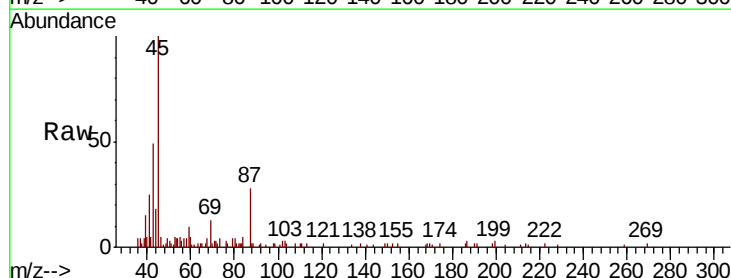
Instrument :
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MW-901-20190207

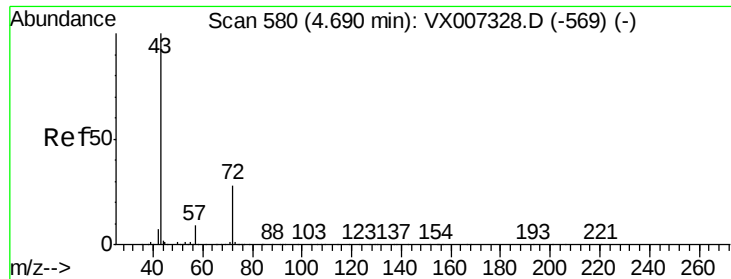
Tot Ion: 73 Resp: 113122
Ion Ratio Lower Upper
73 100
57 27.2 17.8 26.8#



#22
Diisopropyl ether
Concen: 0.638 ug/l
RT: 3.87 min Scan# 446
Delta R.T. 0.01 min
Lab File: VX007524.D
Acq: 13 Feb 2019 16:57

Tgt Ion: 45 Resp: 9852
Ion Ratio Lower Upper
45 100
43 39.0 48.9 73.3#
87 28.5 23.9 35.9
59 8.1 9.6 14.4#

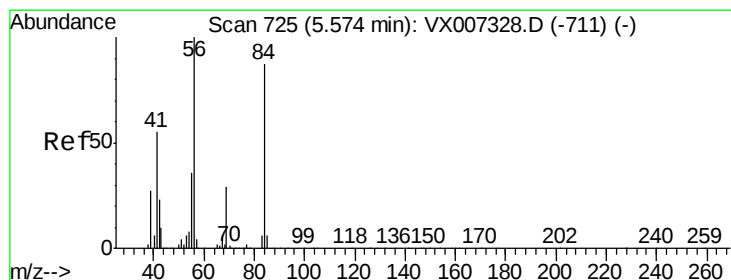
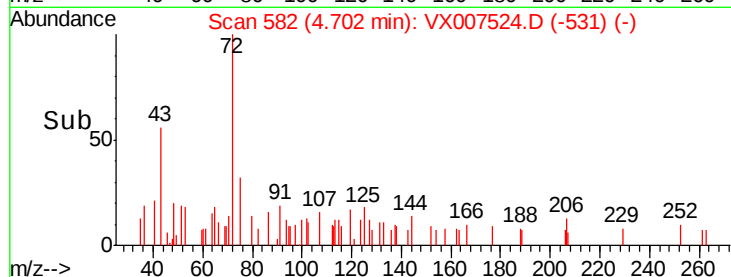
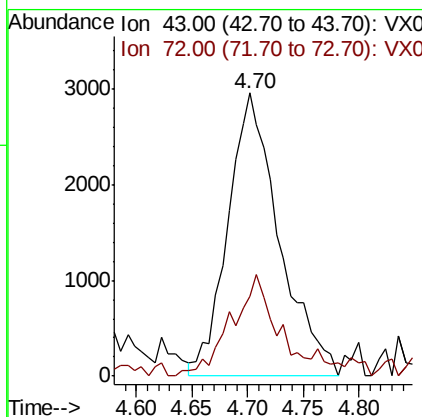
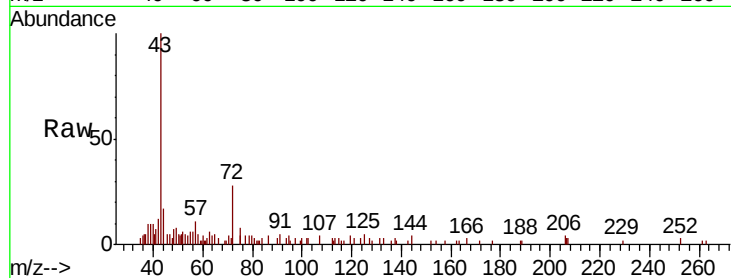




#25
2-Butanone
Concen: 2.536 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007524.D
Acq: 13 Feb 2019 16:57

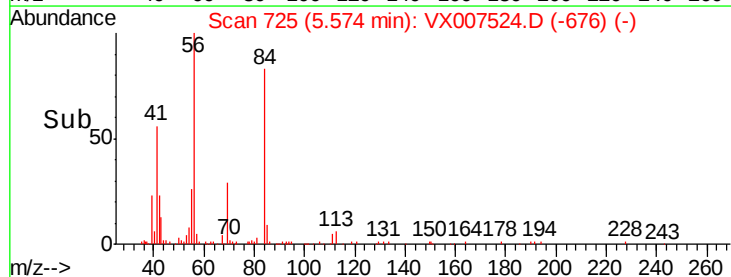
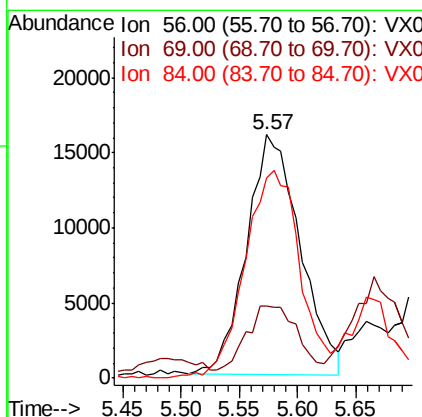
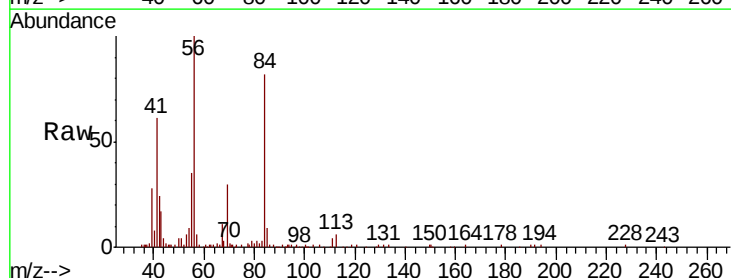
Instrument :
MSVOA_X
ClientSampleId :
MW-901-20190207

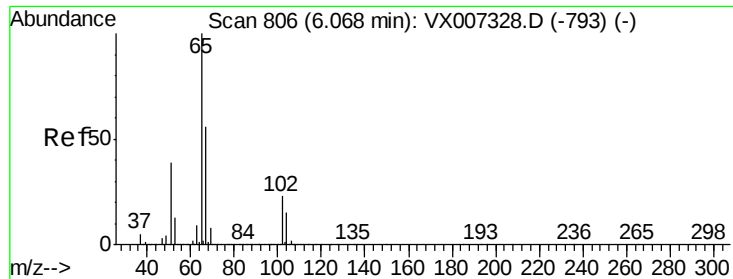
Tot Ion: 43 Resp: 9476
Ion Ratio Lower Upper
43 100
72 26.4 22.2 33.2



#31
Cyclohexane
Concen: 6.380 ug/l
RT: 5.57 min Scan# 725
Delta R.T. 0.00 min
Lab File: VX007524.D
Acq: 13 Feb 2019 16:57

Tgt Ion: 56 Resp: 50849
Ion Ratio Lower Upper
56 100
69 23.7 23.0 34.6
84 82.4 69.8 104.6

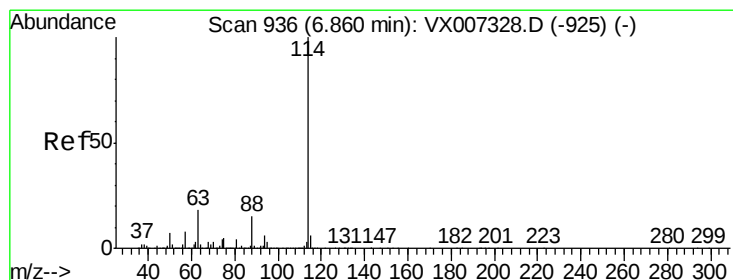
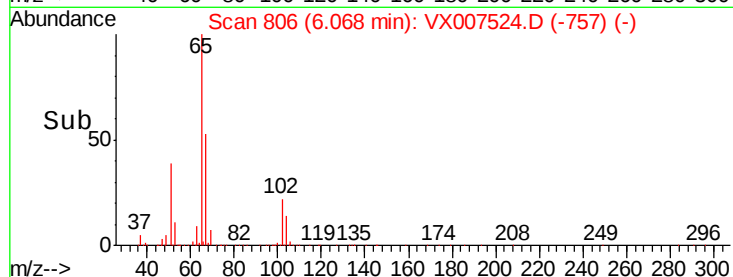
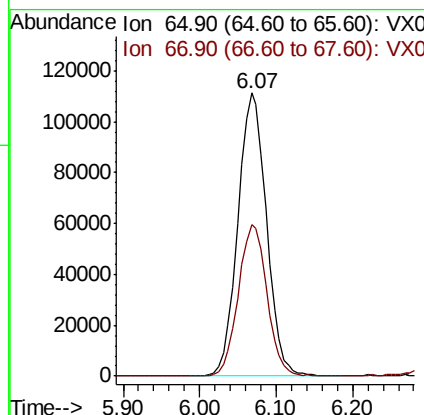
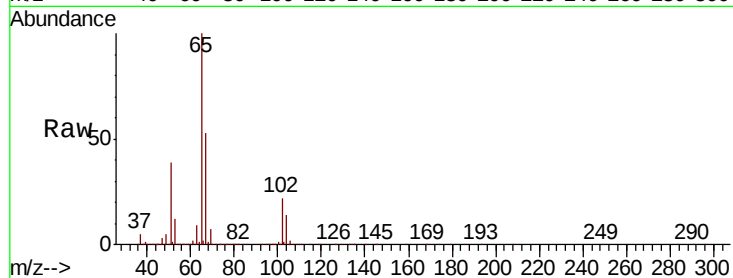




#33
 1,2-Dichloroethane-d4
 Concen: 50.214 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007524.D
 Acq: 13 Feb 2019 16:57

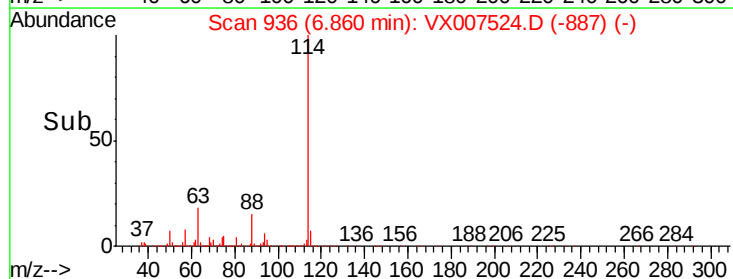
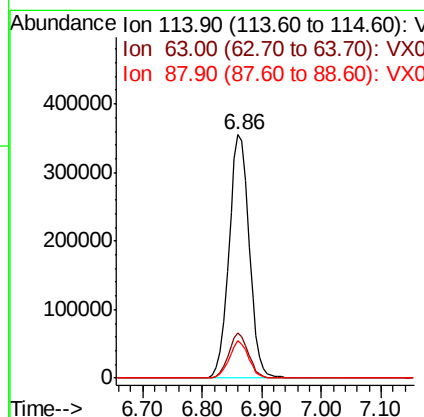
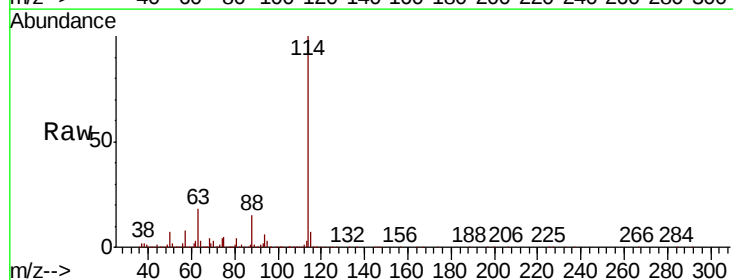
Instrument :
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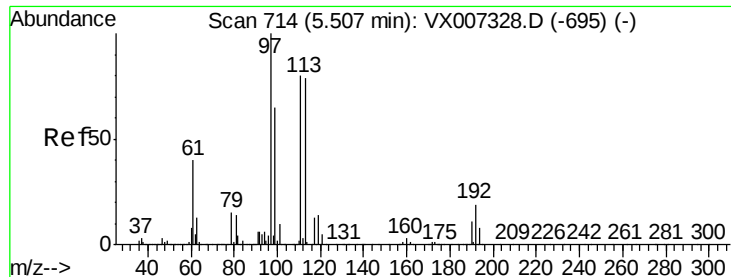
Tot Ion: 65 Resp: 287826
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007524.D
 Acq: 13 Feb 2019 16:57

Tgt Ion: 114 Resp: 839174
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 35.6
 88 15.2 0.0 29.6





#35

Dibromofluoromethane

Concen: 48.690 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

MW-901-20190207

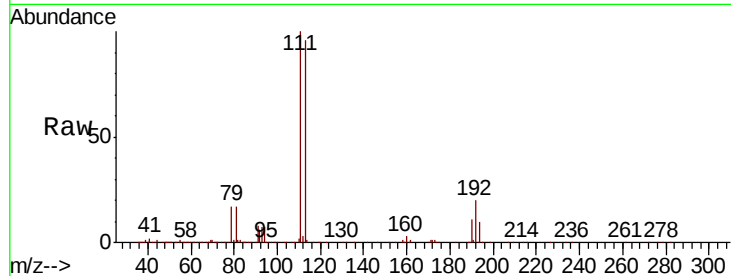
Tot Ion:113 Resp: 265855

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

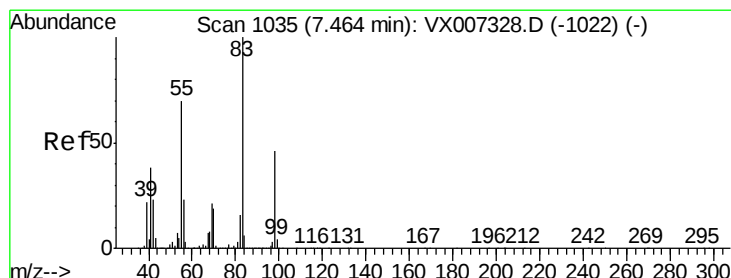
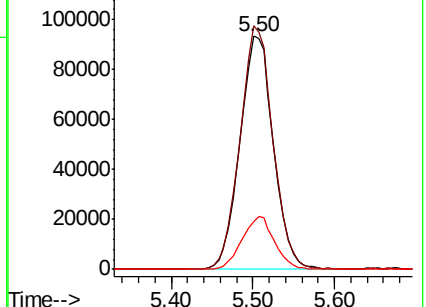
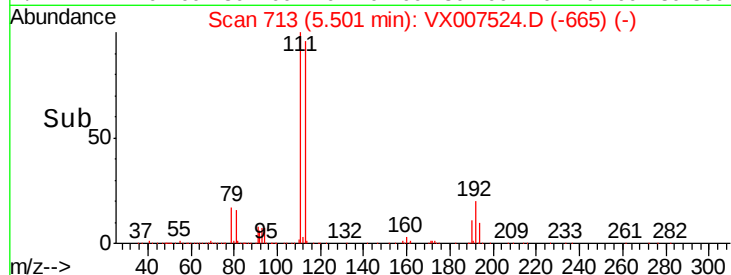
192 22.1 18.5 27.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#39

Methylcyclohexane

Concen: 7.391 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

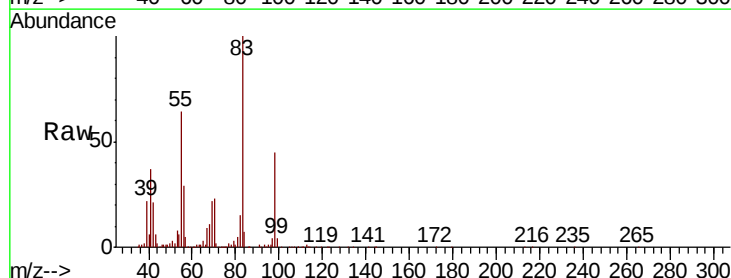
Tgt Ion: 83 Resp: 67331

Ion Ratio Lower Upper

83 100

55 63.5 56.2 84.2

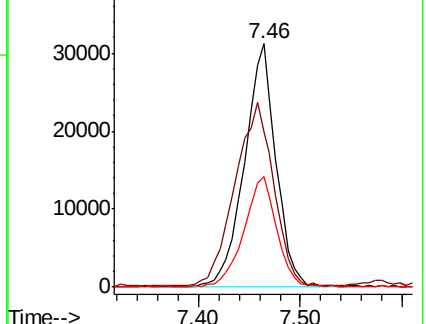
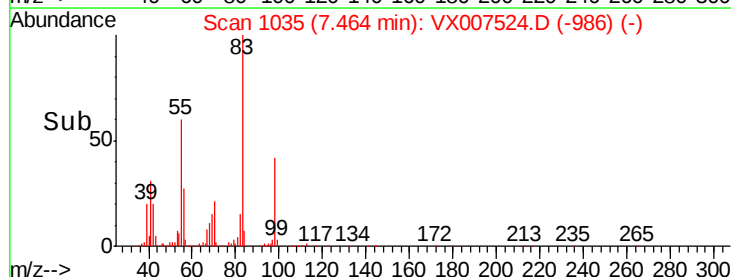
98 45.5 36.8 55.2

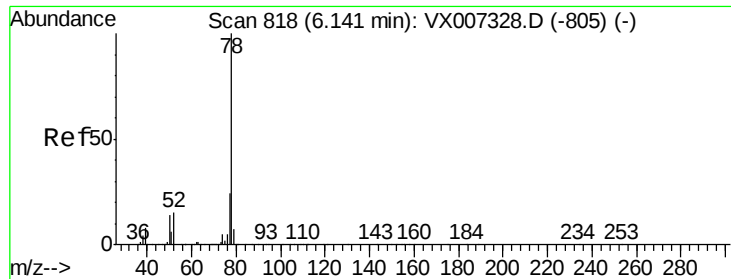


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 3.319 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

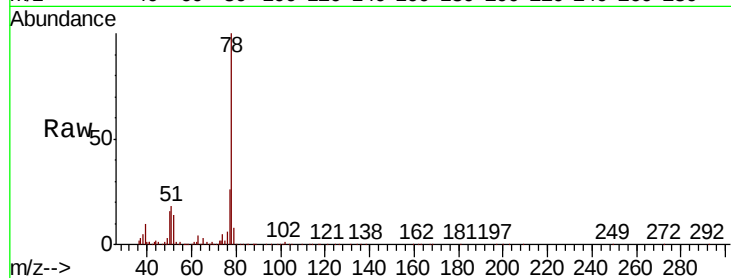
MW-901-20190207

Tot Ion: 78 Resp: 73605

Ion Ratio Lower Upper

78 100

77 26.1 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

30000

25000

20000

15000

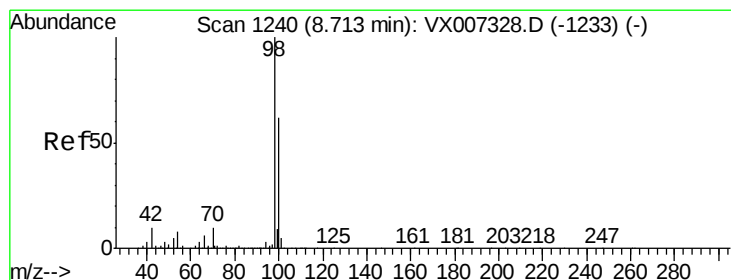
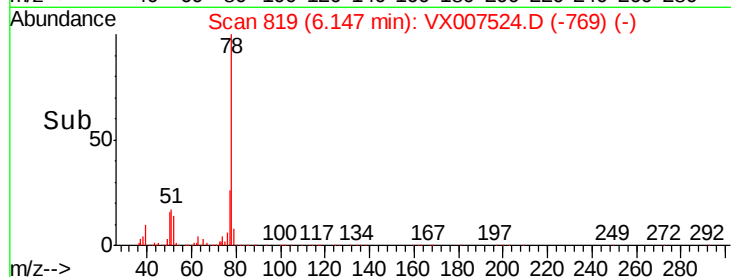
10000

5000

0

6.10 6.20

Time-->



#50

Toluene-d8

Concen: 49.362 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007524.D

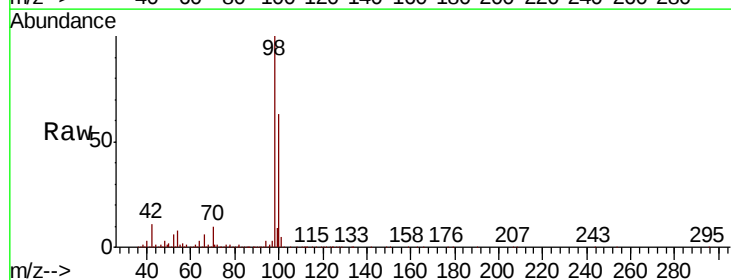
Acq: 13 Feb 2019 16:57

Tgt Ion: 98 Resp: 999991

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

600000

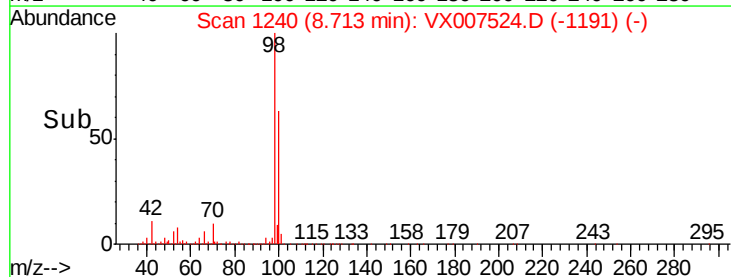
400000

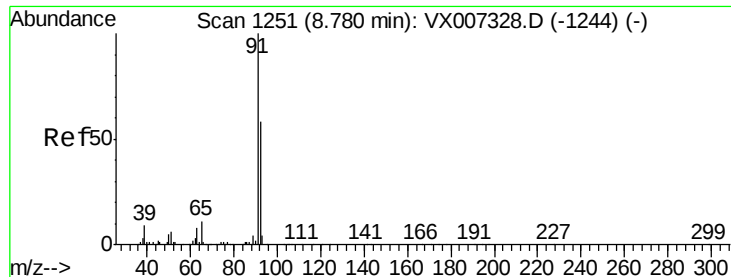
200000

0

8.60 8.70 8.80 8.90

Time-->





#52

Toluene

Concen: 0.477 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

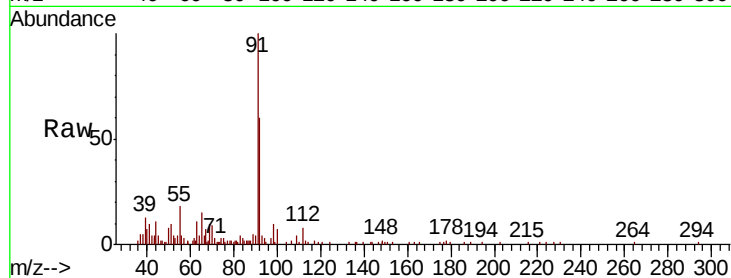
MW-901-20190207

Tot Ion: 92 Resp: 6825

Ion Ratio Lower Upper

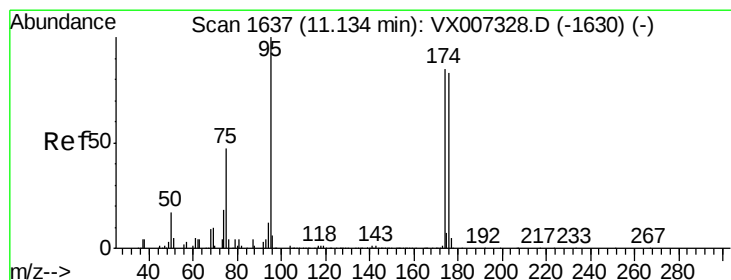
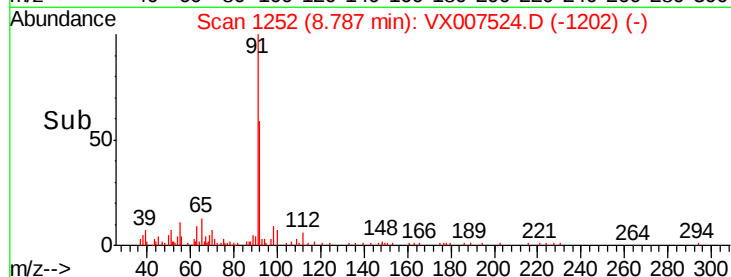
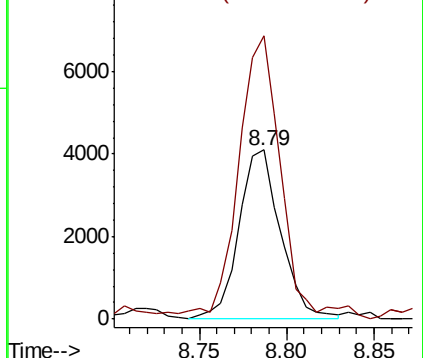
92 100

91 163.5 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VX007328.D (-1244) (-)

Ion 91.00 (90.70 to 91.70): VX007328.D (-1244) (-)



#62

4-Bromofluorobenzene

Concen: 49.319 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

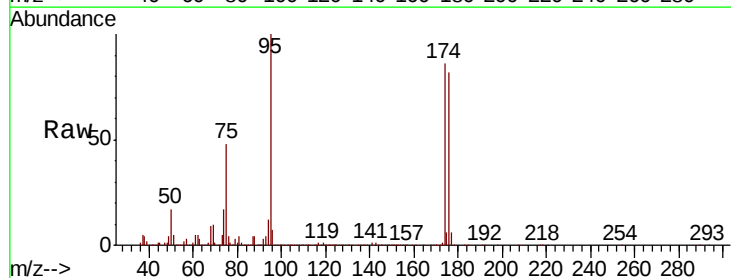
Tgt Ion: 95 Resp: 364779

Ion Ratio Lower Upper

95 100

174 91.7 0.0 189.2

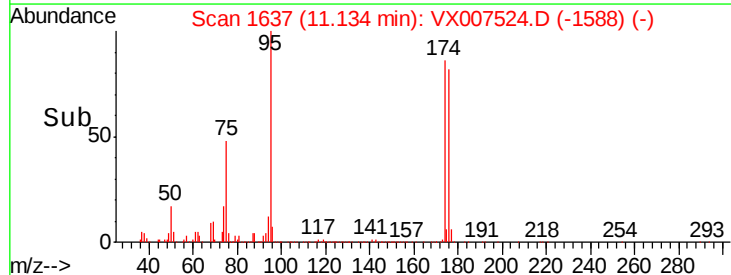
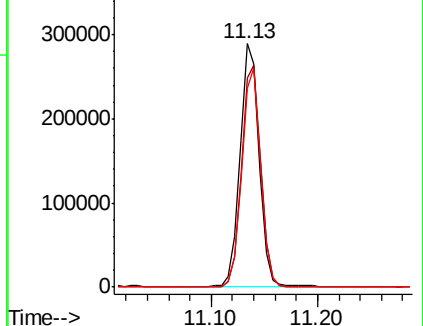
176 88.9 0.0 186.2

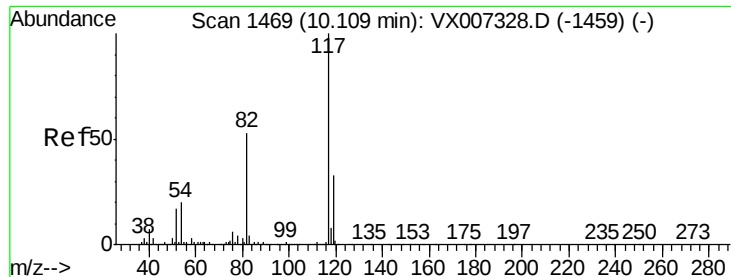


Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007328.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007328.D (-1630) (-)

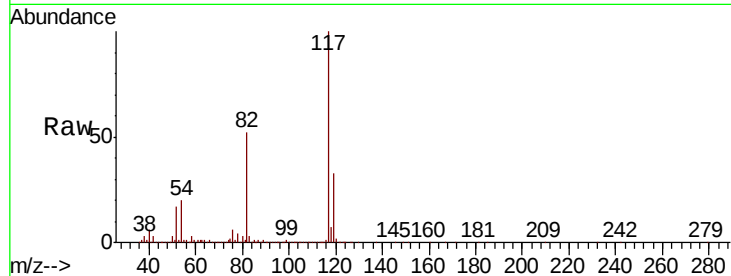




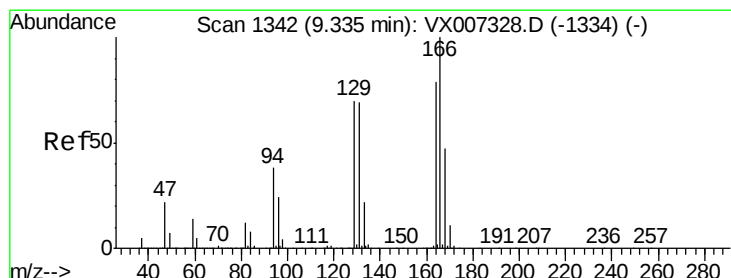
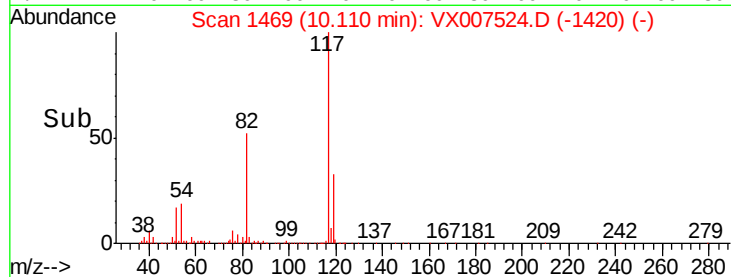
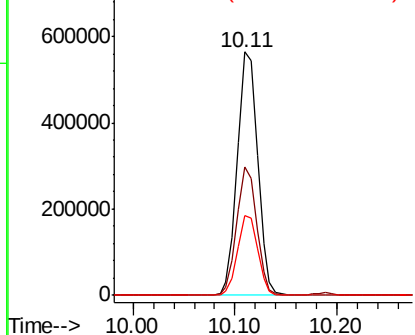
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007524.D
Acq: 13 Feb 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :
MW-901-20190207

Tot Ion:117 Resp: 775328
Ion Ratio Lower Upper
117 100
82 52.4 42.1 63.1
119 32.8 26.5 39.7

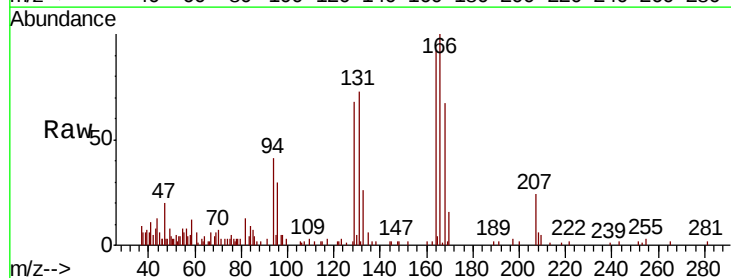


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

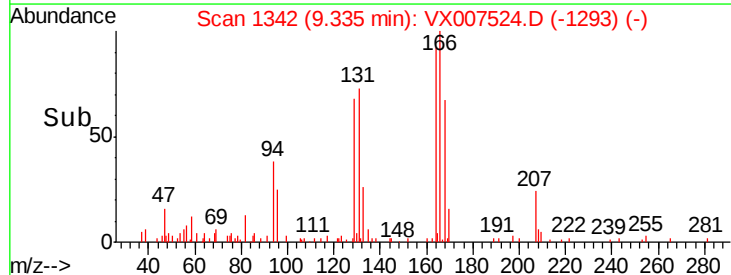
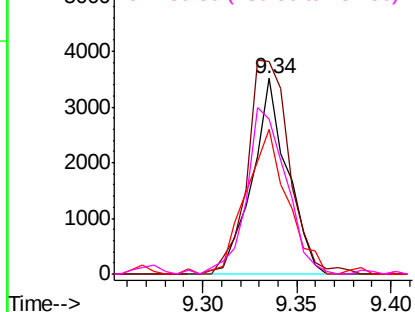


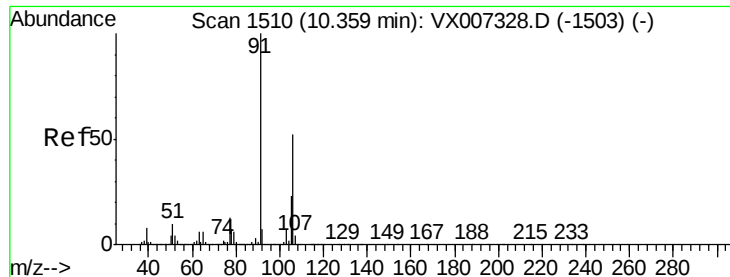
#64
Tetrachloroethene
Concen: 0.624 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007524.D
Acq: 13 Feb 2019 16:57

Tgt Ion:164 Resp: 4559
Ion Ratio Lower Upper
164 100
166 108.7 101.0 151.4
129 74.0 70.5 105.7
131 77.3 69.8 104.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#68

m/p-Xylenes

Concen: 1.699 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

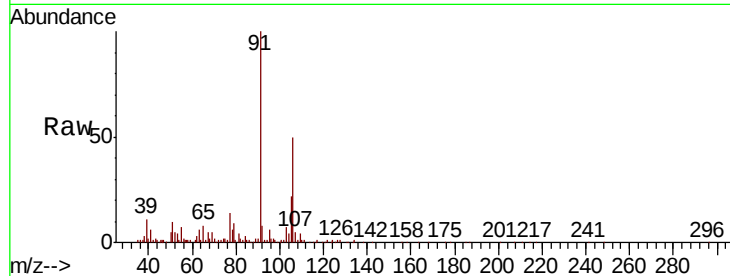
MW-901-20190207

Tot Ion:106 Resp: 18405

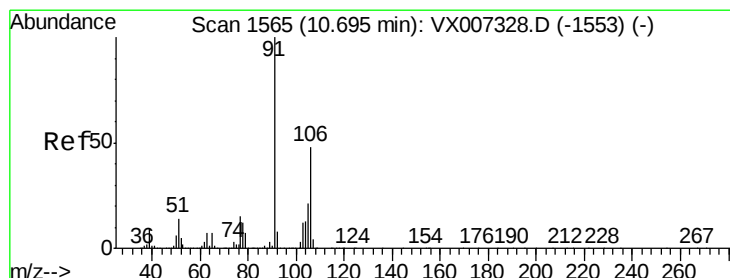
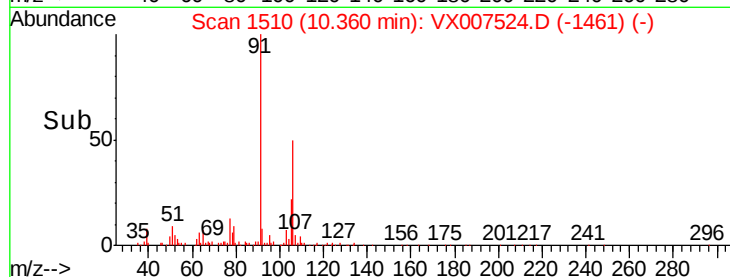
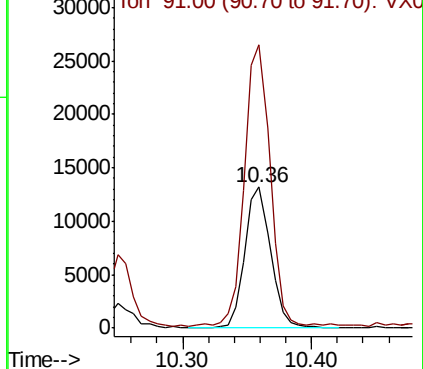
Ion Ratio Lower Upper

106 100

91 198.3 156.6 234.8



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 0.443 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VX007524.D

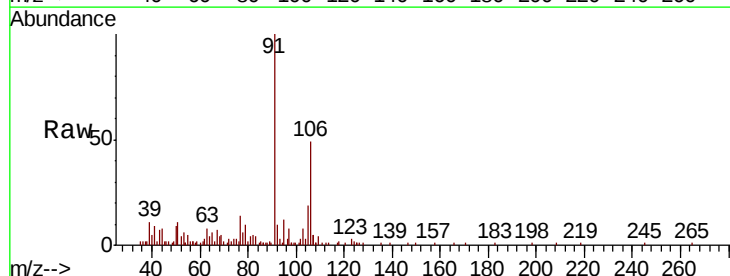
Acq: 13 Feb 2019 16:57

Tgt Ion:106 Resp: 4616

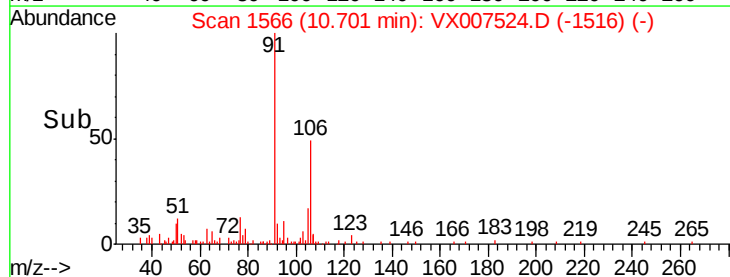
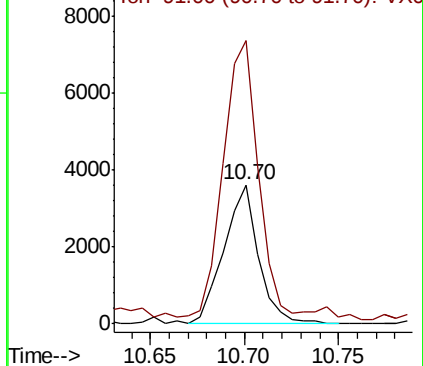
Ion Ratio Lower Upper

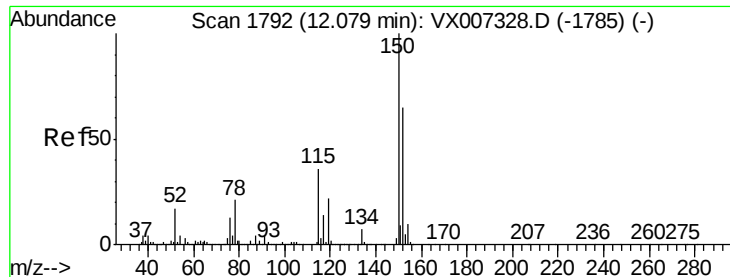
106 100

91 201.0 102.9 308.7



Abundance Ion 106.00 (105.70 to 106.70): V



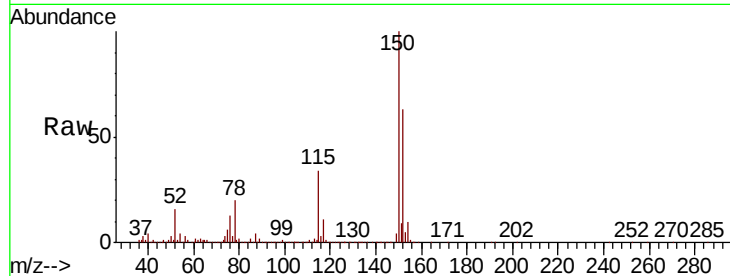


#72

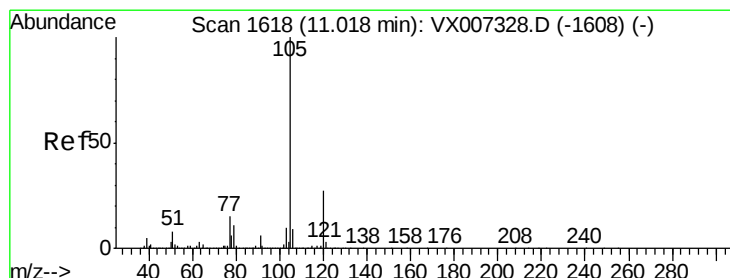
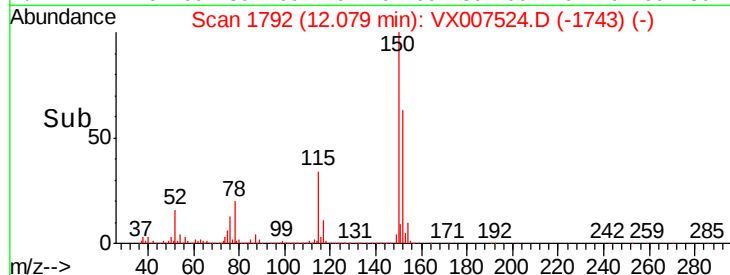
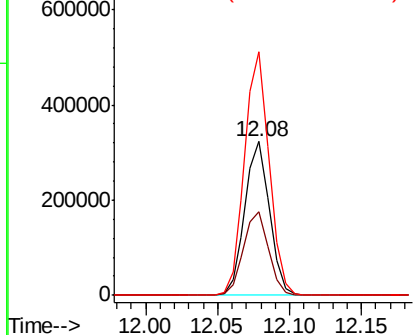
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007524.D
Acq: 13 Feb 2019 16:57

Instrument :
MSVOA_X
ClientSampleId :
MW-901-20190207

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.2	38.0	114.0
150	157.9	0.0	346.4



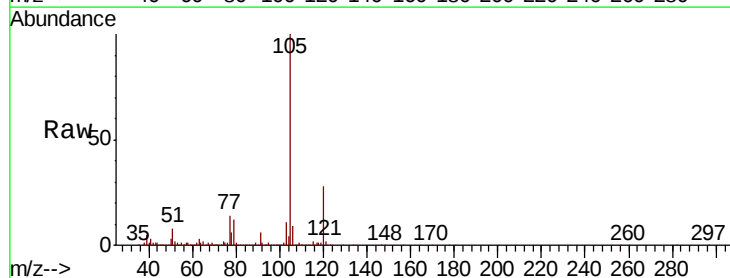
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



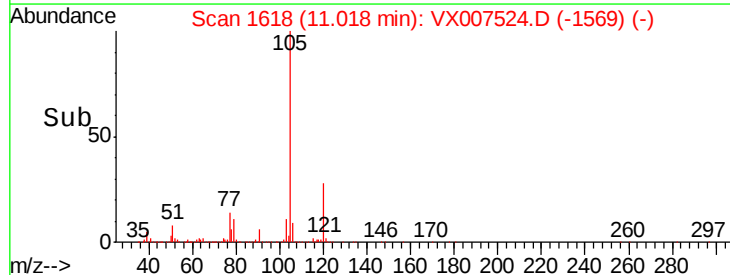
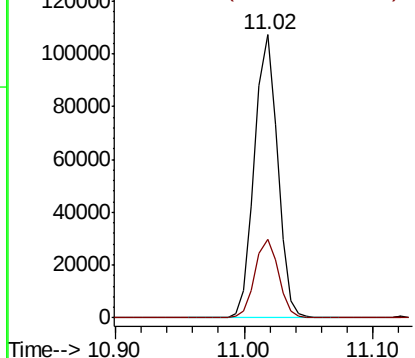
#73

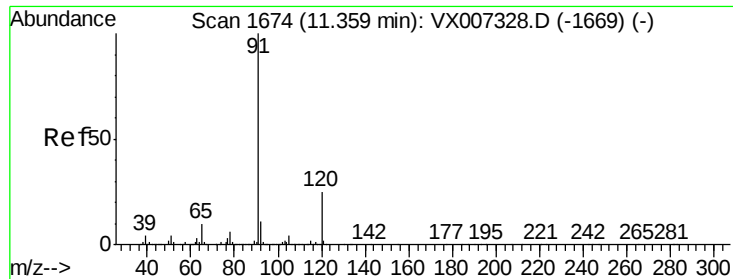
Isopropylbenzene
Concen: 5.072 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX007524.D
Acq: 13 Feb 2019 16:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.4	13.6	40.7



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





#78

n-propylbenzene

Concen: 8.093 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

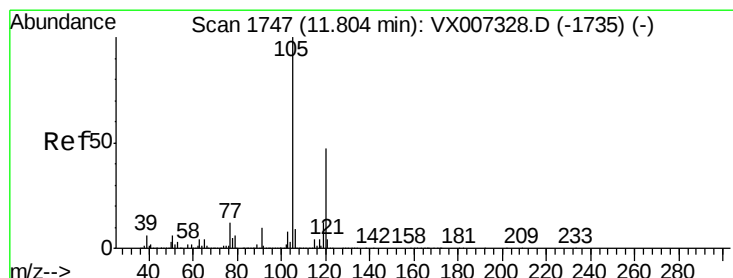
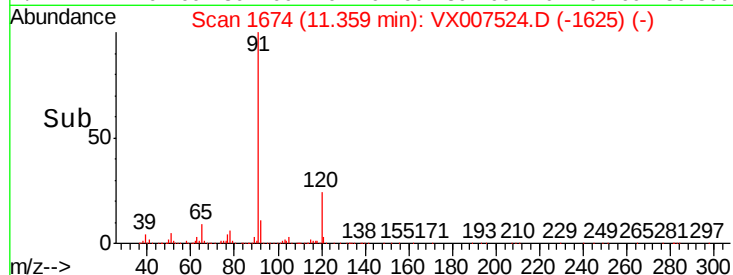
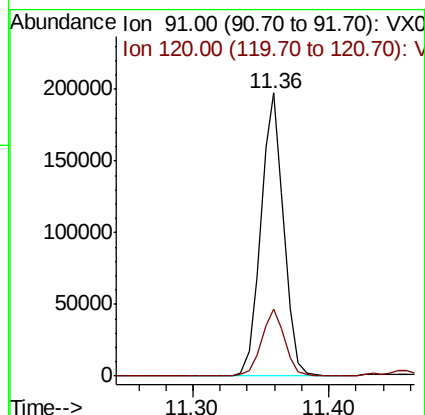
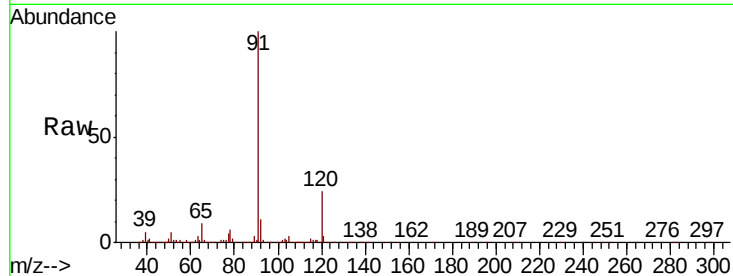
MW-901-20190207

Tot Ion: 91 Resp: 231656

Ion Ratio Lower Upper

91 100

120 24.1 12.4 37.2



#84

1,2,4-Trimethylbenzene

Concen: 0.751 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX007524.D

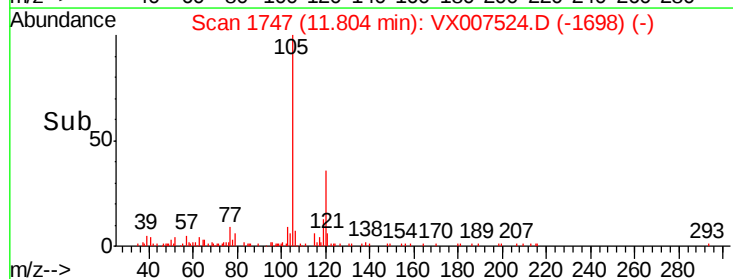
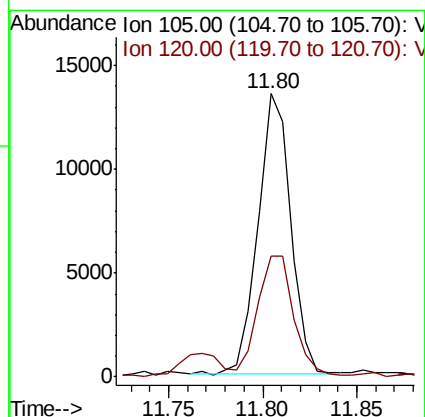
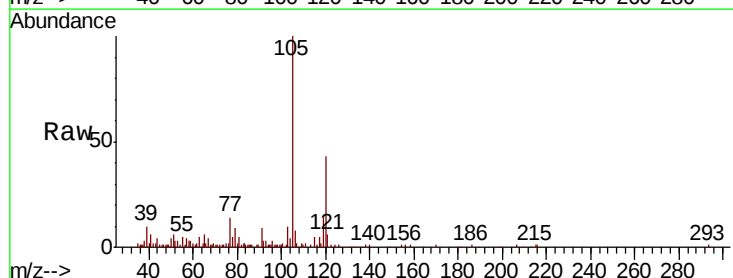
Acq: 13 Feb 2019 16:57

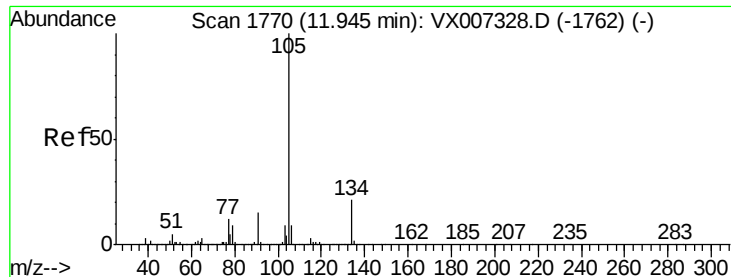
Tgt Ion: 105 Resp: 16281

Ion Ratio Lower Upper

105 100

120 46.5 23.1 69.3

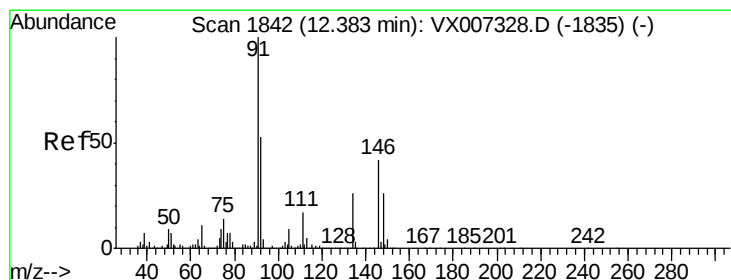
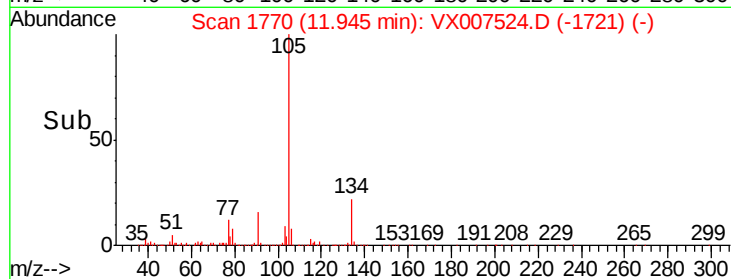
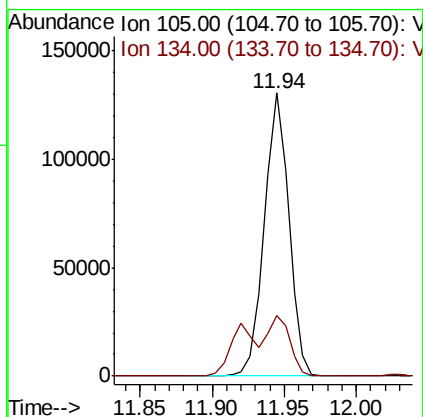
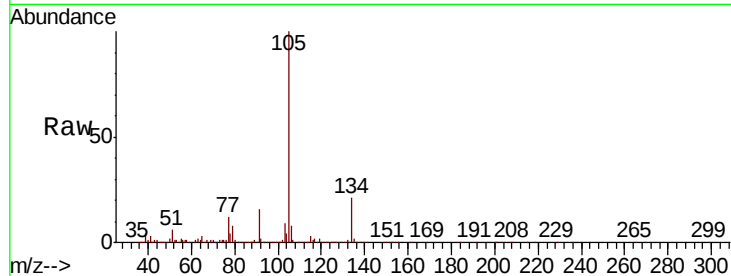




#85
 sec-Butylbenzene
 Concen: 5.973 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX007524.D
 Acq: 13 Feb 2019 16:57

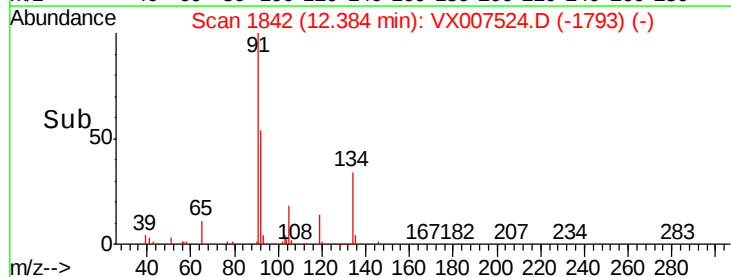
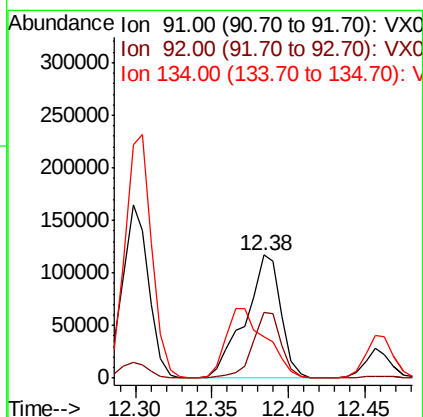
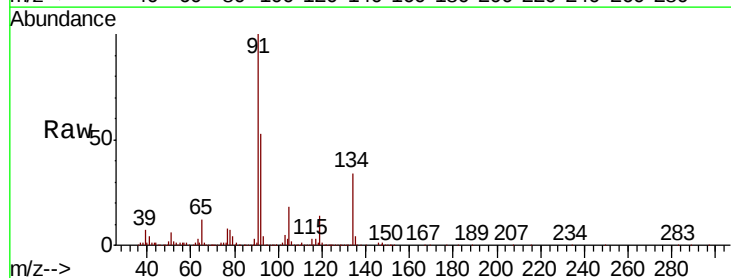
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-901-20190207

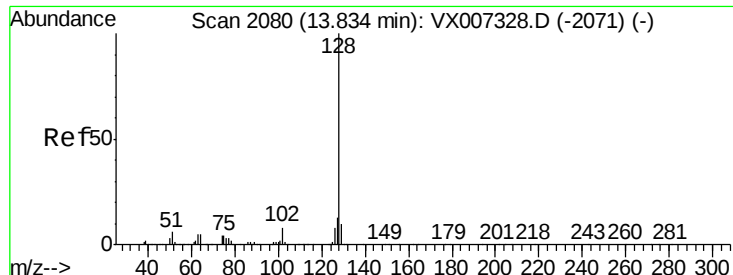
Tot Ion: 105 Resp: 152842
 Ion Ratio Lower Upper
 105 100
 134 19.8 10.6 31.8



#89
 n-Butylbenzene
 Concen: 9.476 ug/l
 RT: 12.38 min Scan# 1842
 Delta R.T. 0.00 min
 Lab File: VX007524.D
 Acq: 13 Feb 2019 16:57

Tgt Ion: 91 Resp: 188310
 Ion Ratio Lower Upper
 91 100
 92 43.0 26.3 78.9
 134 63.7 13.9 41.6#





#95

Naphthalene

Concen: 3.432 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007524.D

Acq: 13 Feb 2019 16:57

Instrument :

MSVOA_X

ClientSampleId :

MW-901-20190207

Tot Ion:128 Resp: 88919

Ion Ratio Lower Upper

128 100

127 14.3 10.5 15.7

129 17.3 8.7 13.1#

