

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031619\
 Data File : VX008149.D
 Acq On : 16 Mar 2019 18:54
 Operator : JC/SP
 Sample : K1960-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T3-MW-1-9.0-031419

Quant Time: Mar 18 02:39:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	309197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	414982	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	358833	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	174318	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	134960	43.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.54%	
35) Dibromofluoromethane	5.50	113	124849	47.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.88%	
50) Toluene-d8	8.71	98	480615	48.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.04%	
62) 4-Bromofluorobenzene	11.13	95	163833	45.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.38%	

Target Compounds

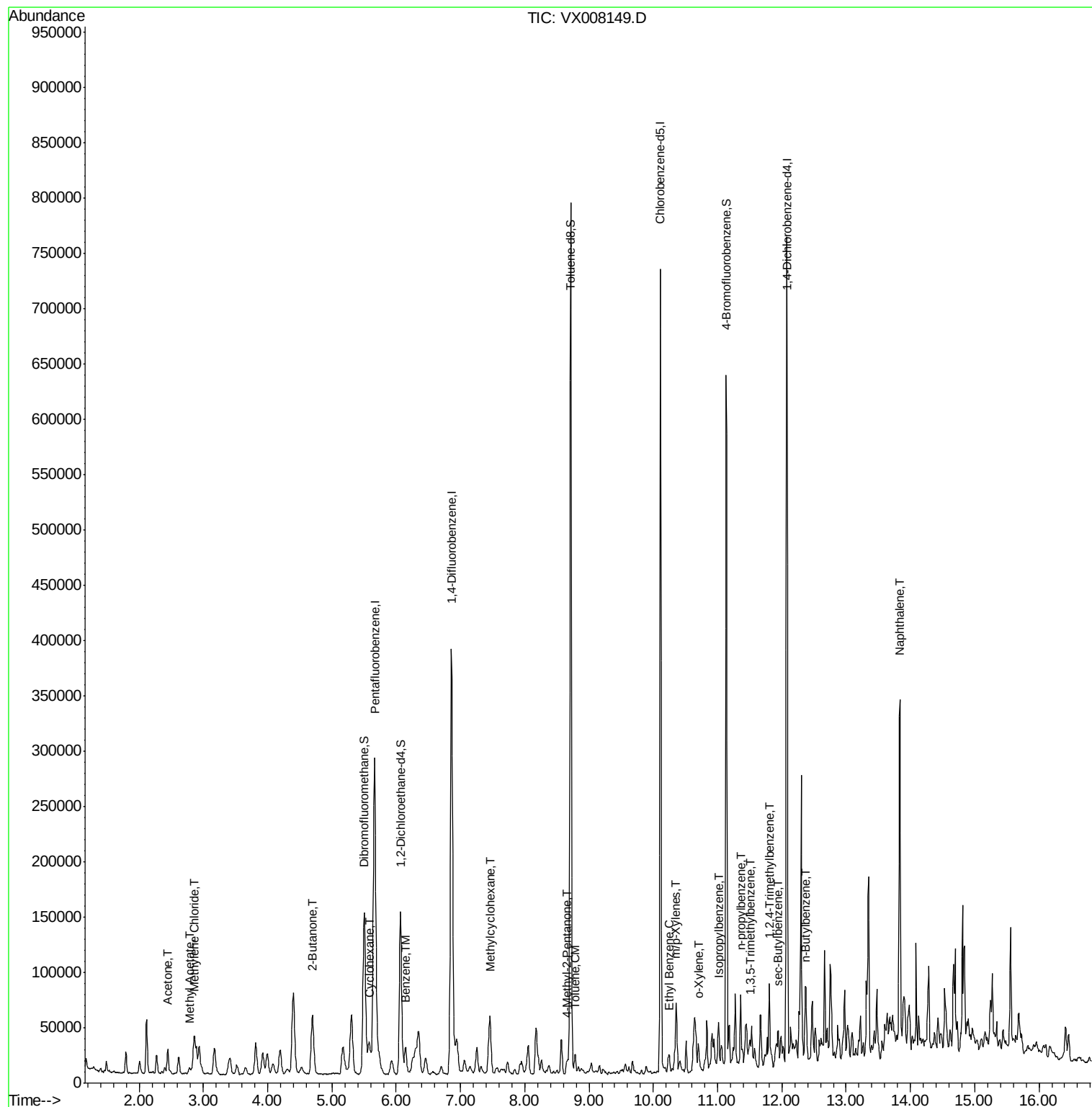
						Qvalue
16) Acetone	2.45	43	23349	15.857	ug/l	98
18) Methyl Acetate	2.78	43	5413	1.701	ug/l #	87
20) Methylene Chloride	2.86	84	12549	4.772	ug/l	91
25) 2-Butanone	4.70	43	96572	42.728	ug/l	94
31) Cyclohexane	5.58	56	20870	4.680	ug/l	90
39) Methylcyclohexane	7.46	83	21404	4.905	ug/l	97
40) Benzene	6.15	78	29262	2.798	ug/l	100
51) 4-Methyl-2-Pentanone	8.65	43	4821	1.238	ug/l	97
52) Toluene	8.79	92	6046	0.909	ug/l	98
67) Ethyl Benzene	10.25	91	4842	0.411	ug/l	91
68) m/p-Xylenes	10.35	106	10354	2.296	ug/l	98
69) o-Xylene	10.69	106	4475	1.018	ug/l	94
73) Isopropylbenzene	11.02	105	22662	2.030	ug/l	99
78) n-propylbenzene	11.36	91	40205	3.282	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	7308	0.794	ug/l	100
84) 1,2,4-Trimethylbenzene	11.80	105	21915	2.309	ug/l	100
85) sec-Butylbenzene	11.94	105	7463	0.679	ug/l	94
89) n-Butylbenzene	12.38	91	7638	0.919	ug/l #	47
95) Naphthalene	13.83	128	208378	19.442	ug/l	99

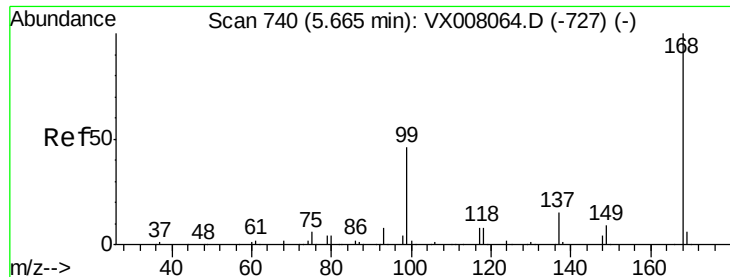
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

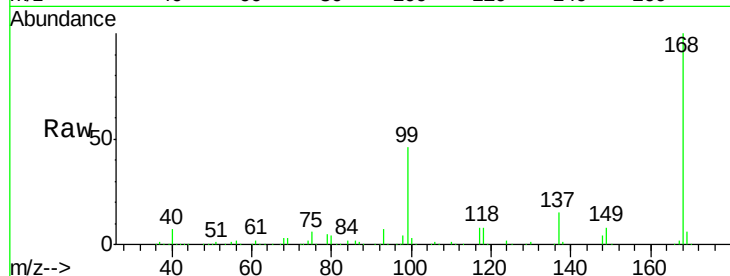
T3-MW-1-9.0-031419

Tot Ion:168 Resp: 309197

Ion Ratio Lower Upper

168 100

99 46.4 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

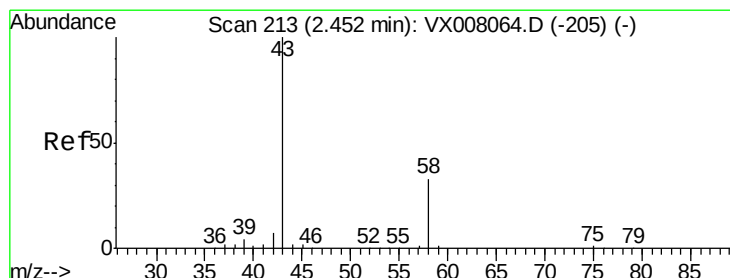
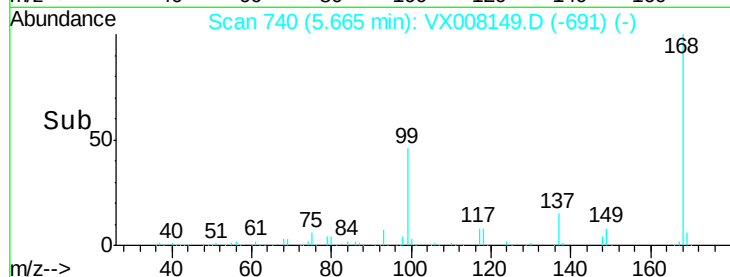
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#16

Acetone

Concen: 15.857 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008149.D

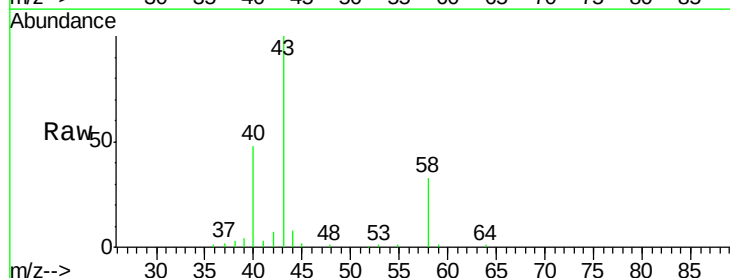
Acq: 16 Mar 2019 18:54

Tgt Ion: 43 Resp: 23349

Ion Ratio Lower Upper

43 100

58 33.2 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

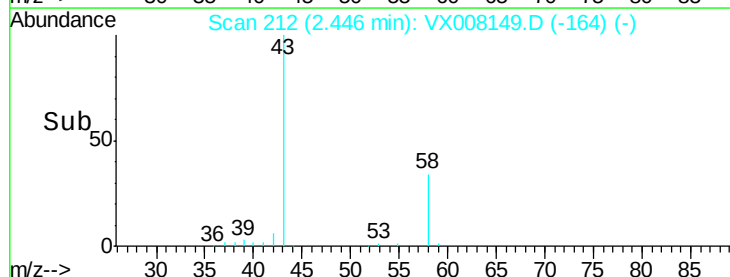
15000

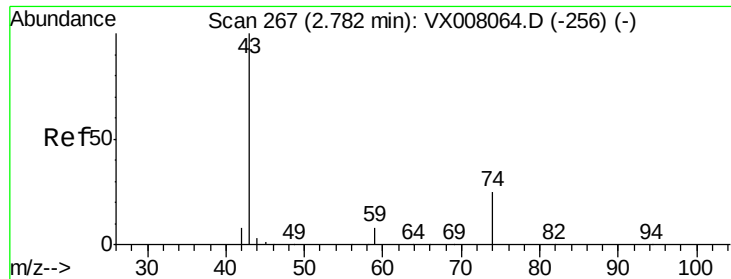
10000

5000

0

Time--> 2.40 2.45 2.50 2.55

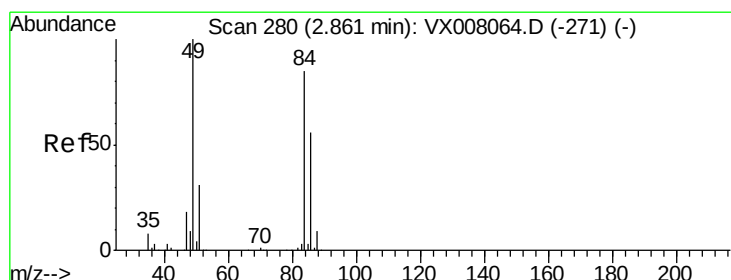
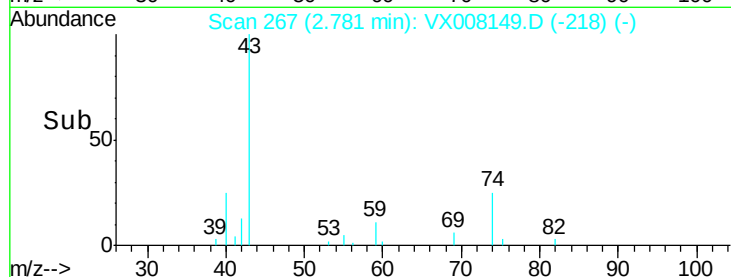
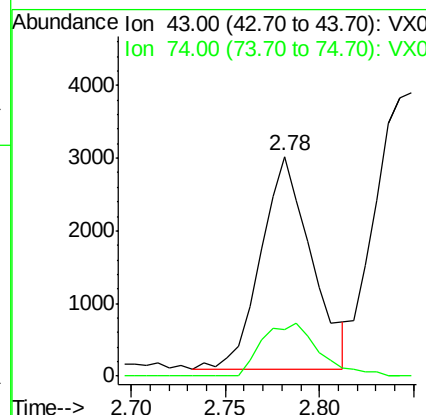
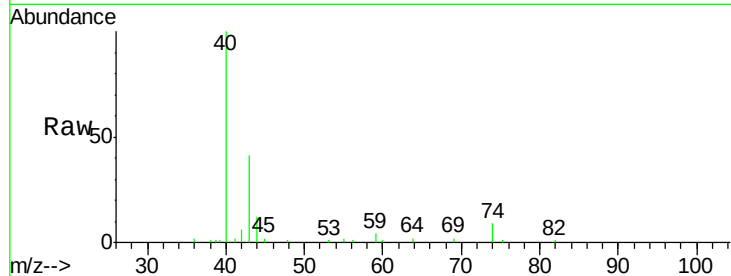




#18
Methyl Acetate
Concen: 1.701 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX008149.D
Acq: 16 Mar 2019 18:54

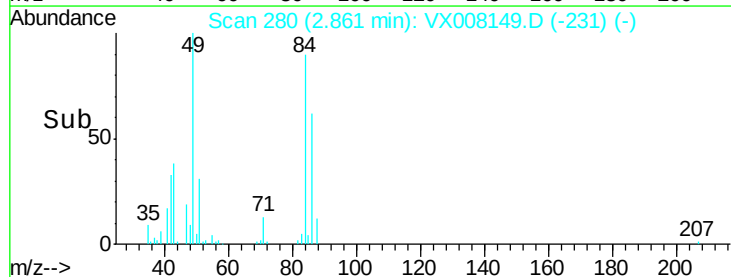
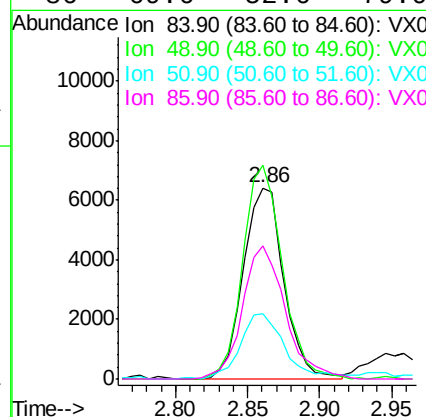
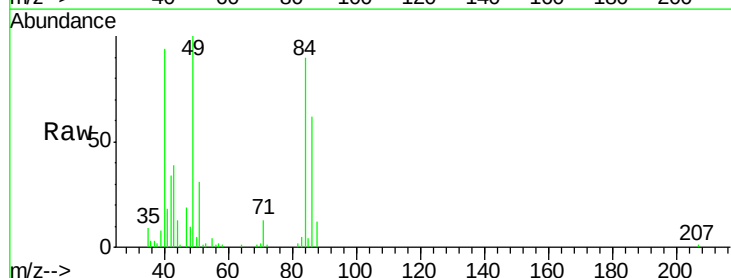
Instrument :
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ClientSampleId :
T3-MW-1-9.0-031419

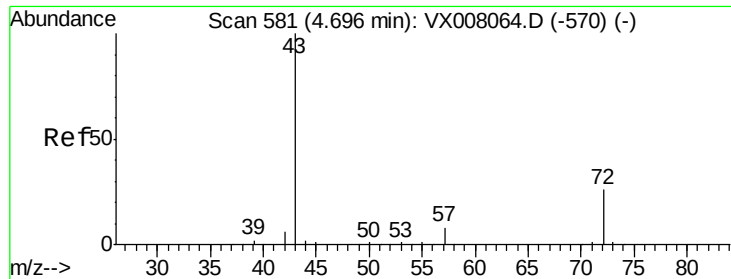
Tot Ion: 43 Resp: 5413
Ion Ratio Lower Upper
43 100
74 28.2 17.8 26.6#



#20
Methylene Chloride
Concen: 4.772 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008149.D
Acq: 16 Mar 2019 18:54

Tgt Ion: 84 Resp: 12549
Ion Ratio Lower Upper
84 100
49 111.7 99.3 148.9
51 33.2 31.3 46.9
86 69.6 52.6 79.0





#25

2-Butanone

Concen: 42.728 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

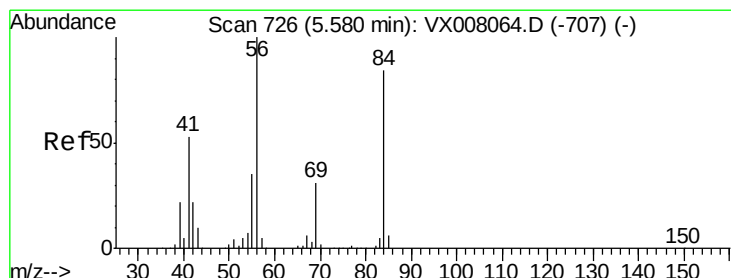
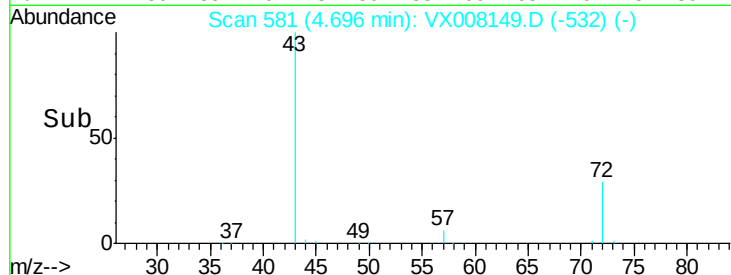
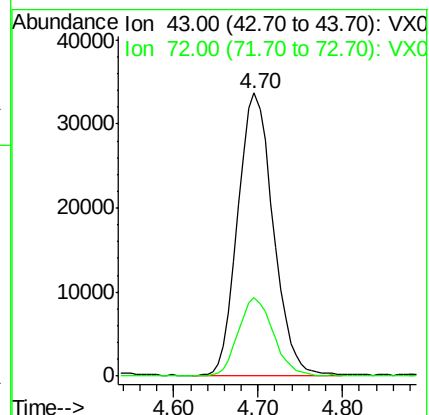
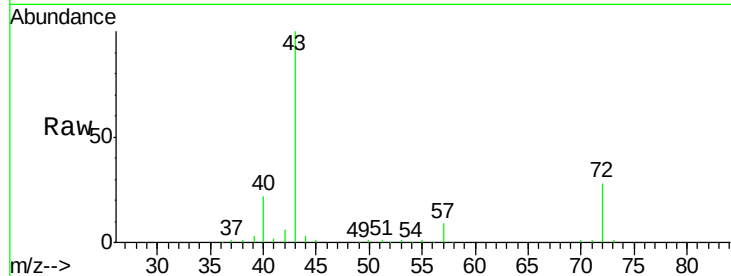
T3-MW-1-9.0-031419

Tot Ion: 43 Resp: 96572

Ion Ratio Lower Upper

43 100

72 27.8 19.9 29.9



#31

Cyclohexane

Concen: 4.680 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

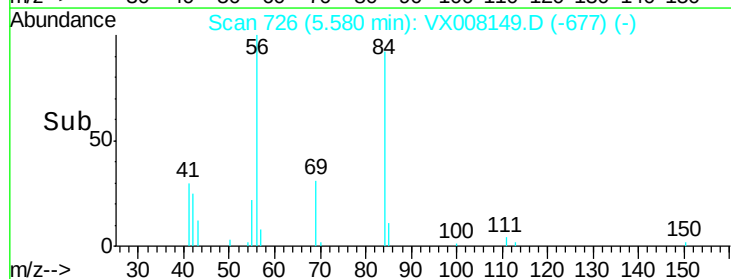
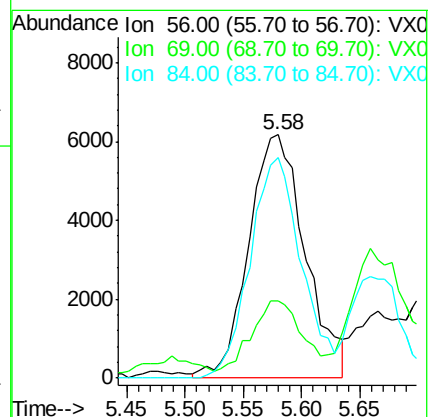
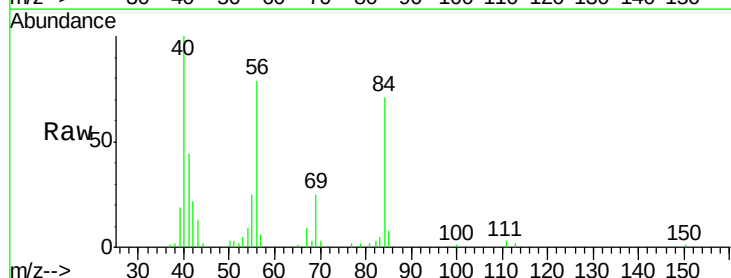
Tgt Ion: 56 Resp: 20870

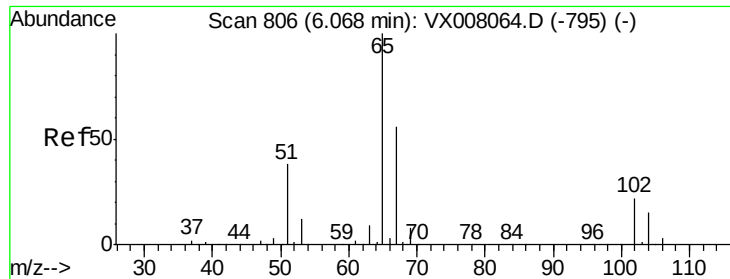
Ion Ratio Lower Upper

56 100

69 26.3 24.0 36.0

84 92.0 65.3 97.9

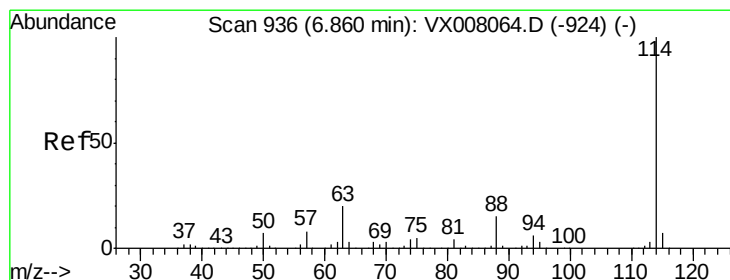
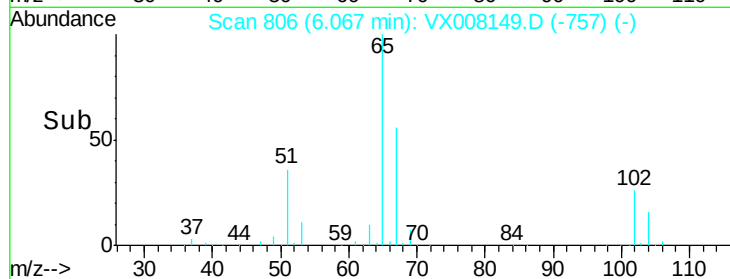
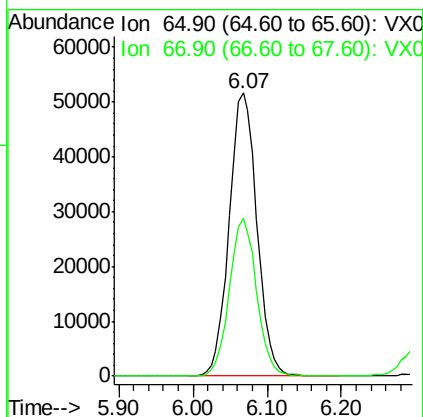
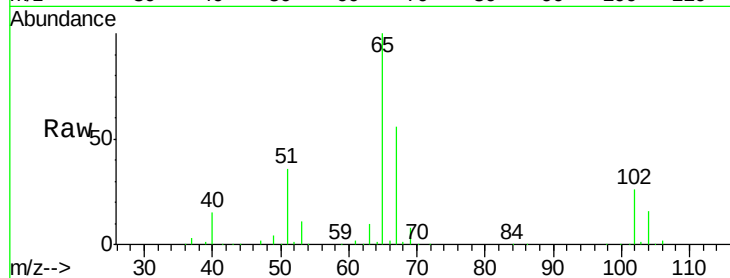




#33
 1,2-Dichloroethane-d4
 Concen: 43.270 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX008149.D
 Acq: 16 Mar 2019 18:54

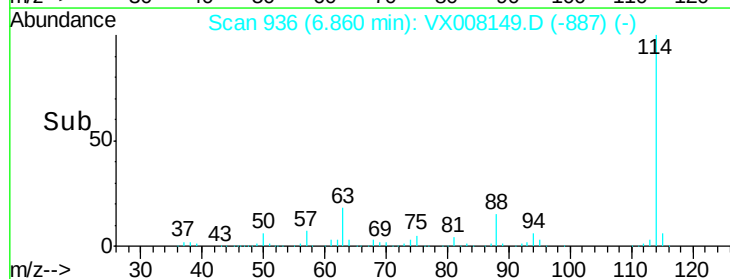
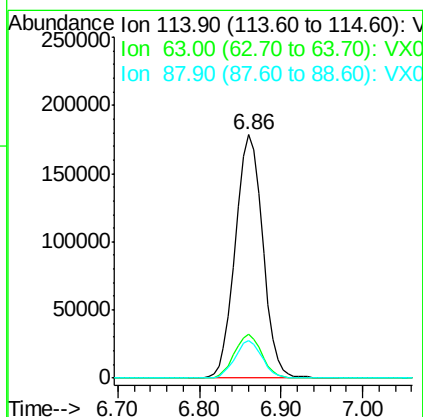
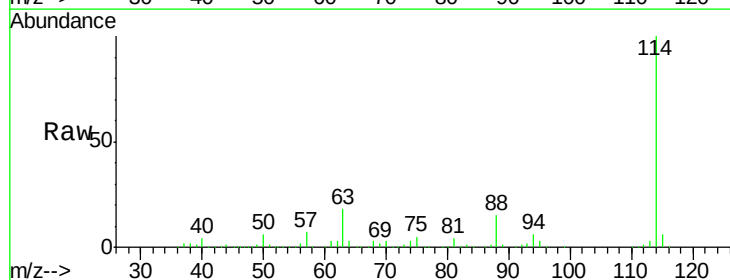
Instrument :
 MSVOA_X
 ClientSampleId :
 T3-MW-1-9.0-031419

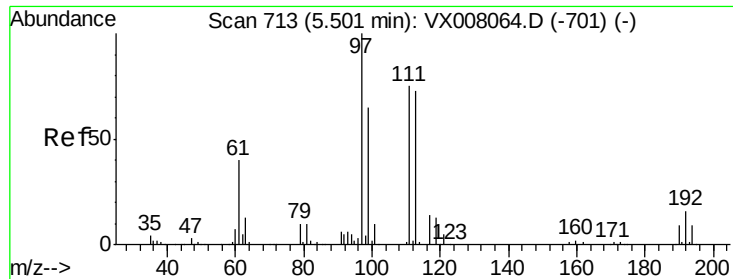
Tot Ion: 65 Resp: 134960
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008149.D
 Acq: 16 Mar 2019 18:54

Tgt Ion: 114 Resp: 414982
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 39.8
 88 15.4 0.0 31.4

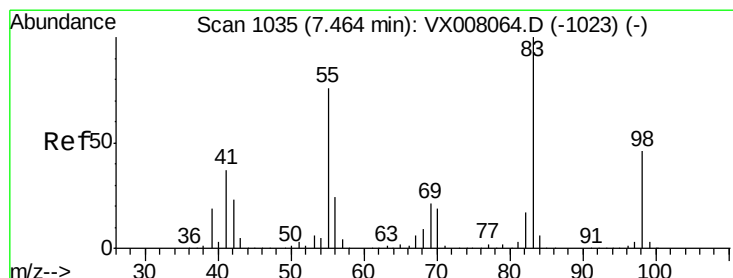
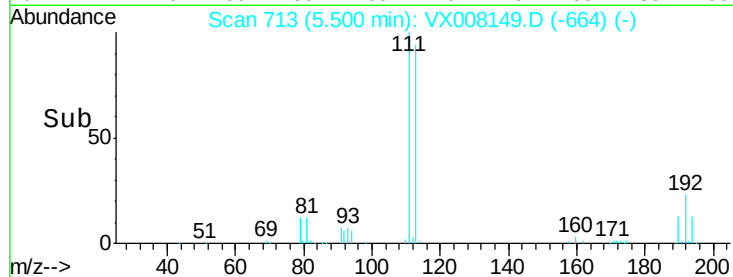
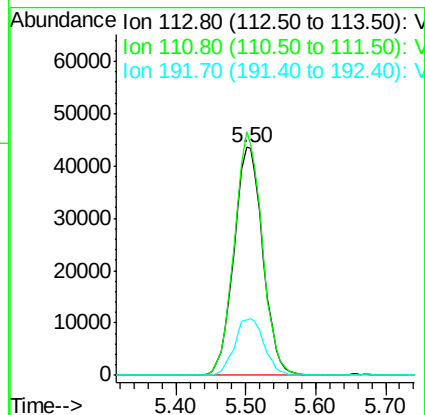
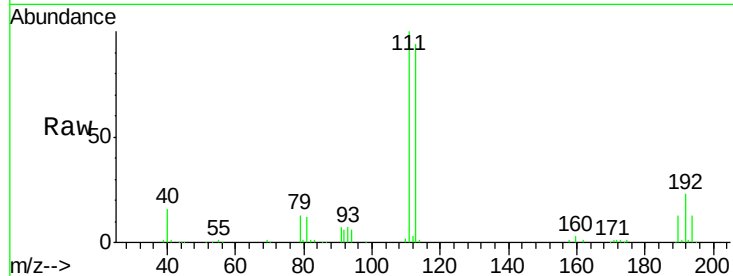




#35
 Dibromofluoromethane
 Concen: 47.442 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008149.D
 Acq: 16 Mar 2019 18:54

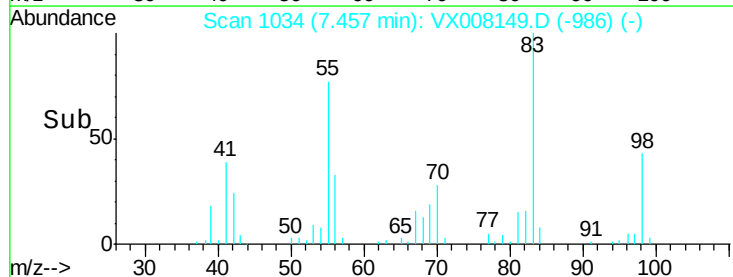
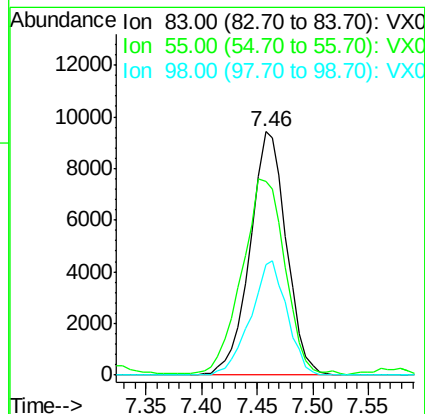
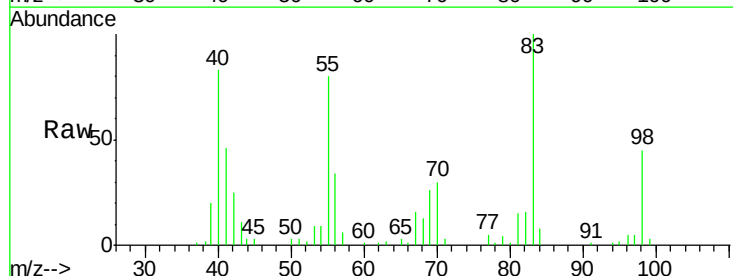
Instrument :
 MSVOA_X
 ClientSampleId :
 T3-MW-1-9.0-031419

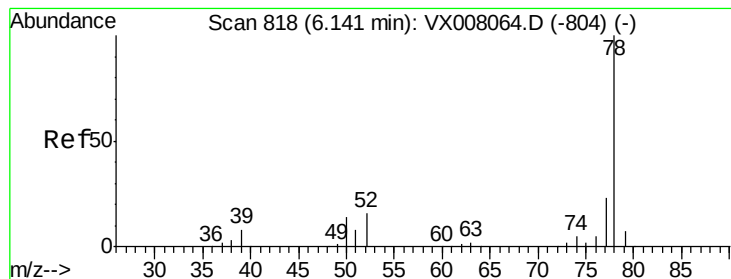
Tot Ion:113 Resp: 124849
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.4 122.0
 192 25.5 19.4 29.0



#39
 Methylcyclohexane
 Concen: 4.905 ug/l
 RT: 7.46 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: VX008149.D
 Acq: 16 Mar 2019 18:54

Tgt Ion: 83 Resp: 21404
 Ion Ratio Lower Upper
 83 100
 55 79.1 60.4 90.6
 98 45.5 36.5 54.7





#40

Benzene

Concen: 2.798 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

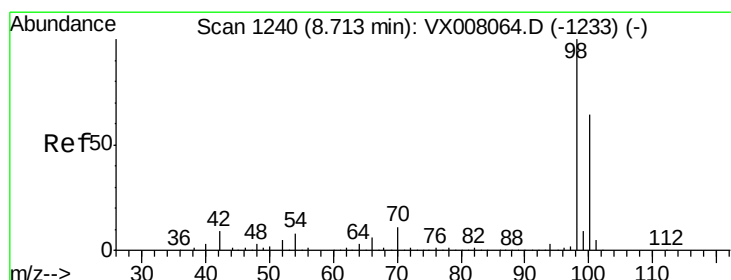
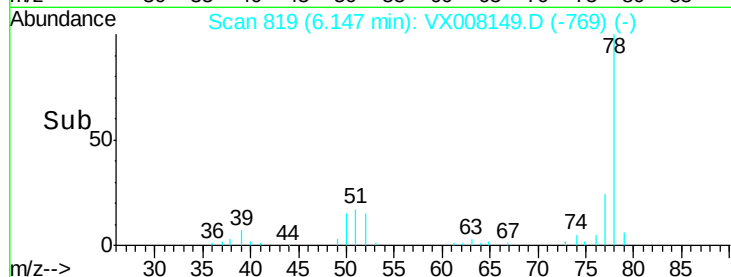
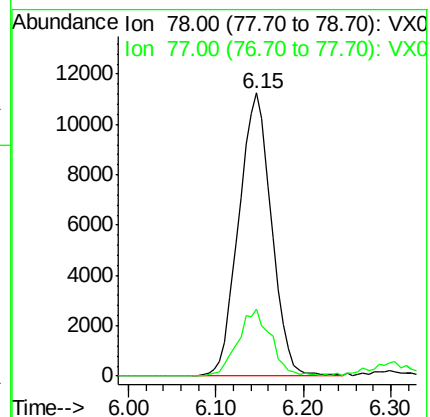
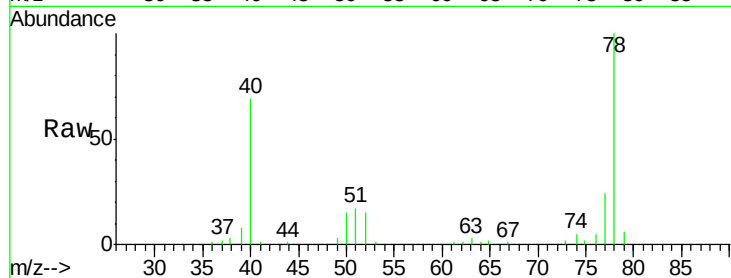
T3-MW-1-9.0-031419

Tot Ion: 78 Resp: 29262

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.4



#50

Toluene-d8

Concen: 48.020 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008149.D

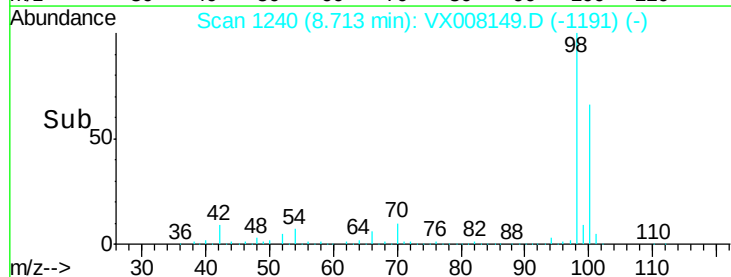
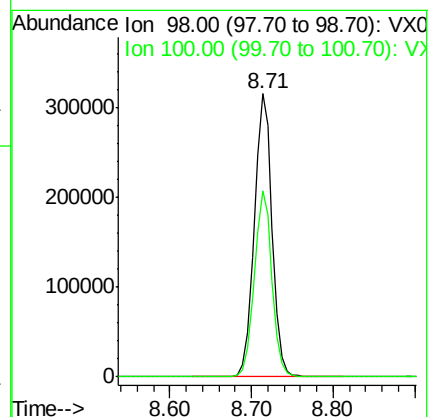
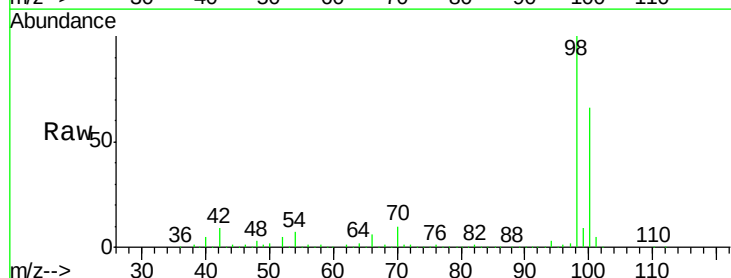
Acq: 16 Mar 2019 18:54

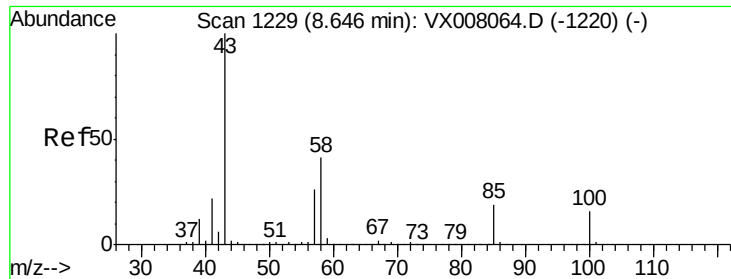
Tgt Ion: 98 Resp: 480615

Ion Ratio Lower Upper

98 100

100 64.9 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.238 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

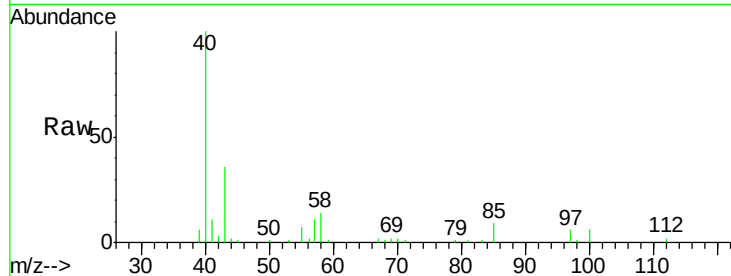
T3-MW-1-9.0-031419

Tot Ion: 43 Resp: 4821

Ion Ratio Lower Upper

43 100

58 41.2 31.3 46.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.65

8.65

8.65

8.65

8.65

8.65

8.65

8.65

8.65

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8.65

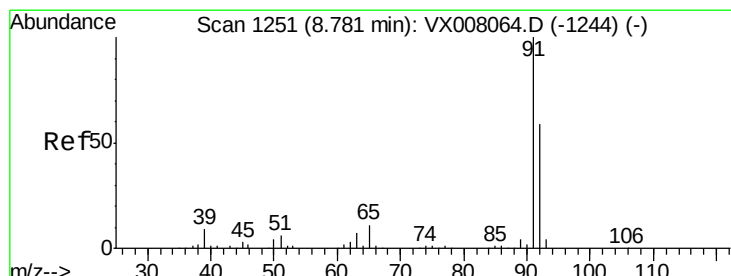
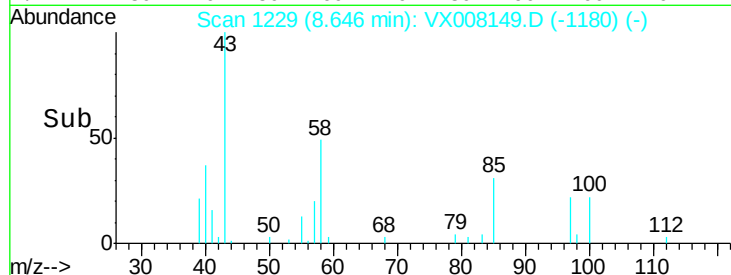
8.65

8.65

8.65

8.65

8.65



#52

Toluene

Concen: 0.909 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX008149.D

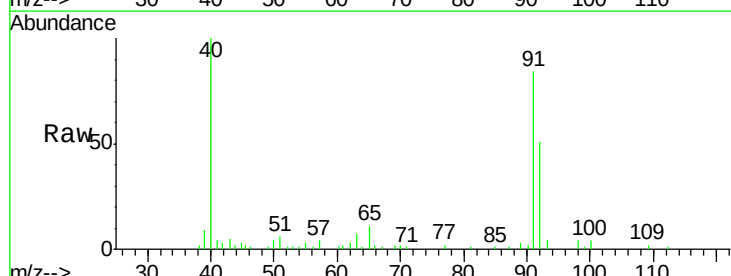
Acq: 16 Mar 2019 18:54

Tgt Ion: 92 Resp: 6046

Ion Ratio Lower Upper

92 100

91 174.1 137.4 206.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

8.79

8.79

8.79

8.79

8.79

8.79

8.79

8.79

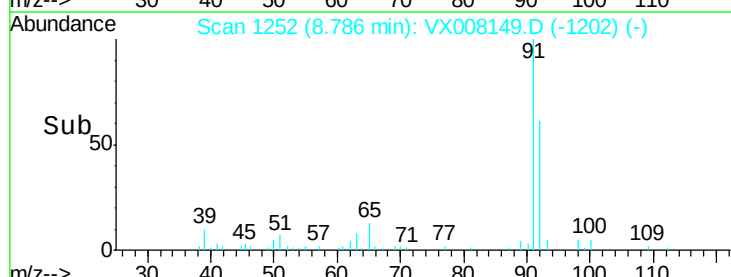
8.79

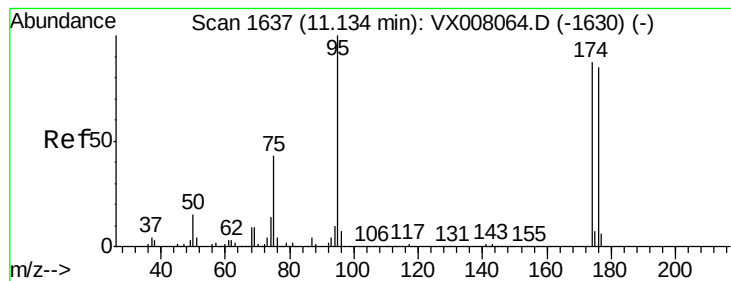
8.79

8.79

8.79

8.79





#62

4-Bromofluorobenzene

Concen: 45.694 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

T3-MW-1-9.0-031419

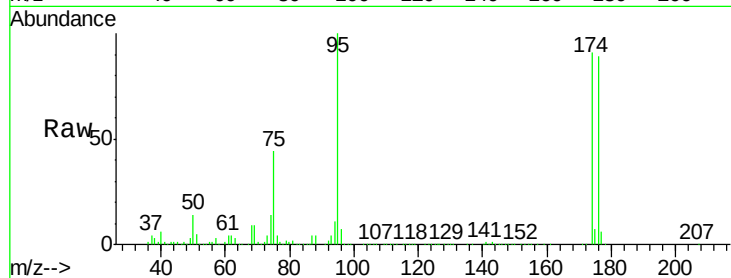
Tot Ion: 95 Resp: 163833

Ion Ratio Lower Upper

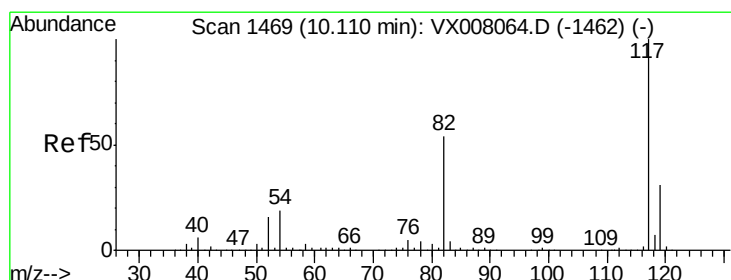
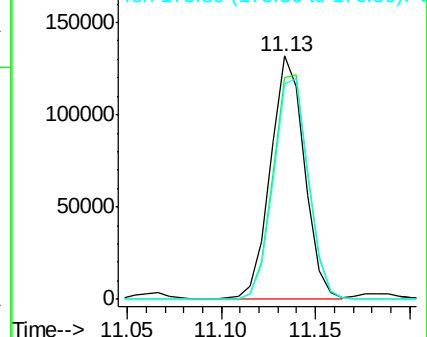
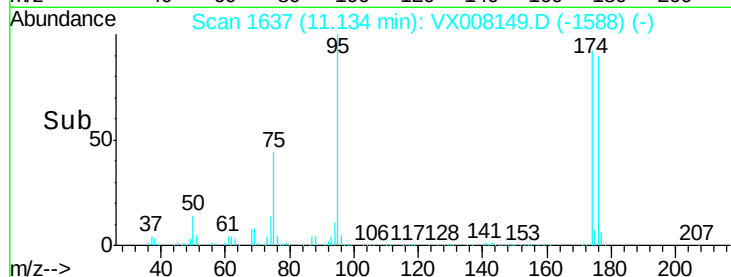
95 100

174 96.5 0.0 182.8

176 94.4 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX008149.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

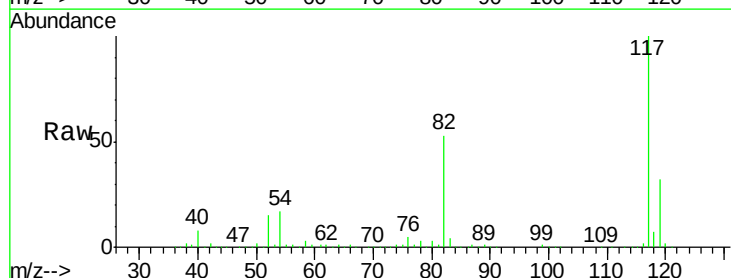
Tgt Ion: 117 Resp: 358833

Ion Ratio Lower Upper

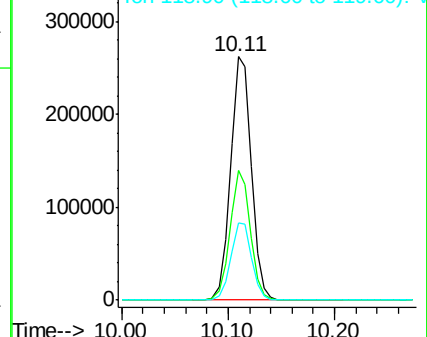
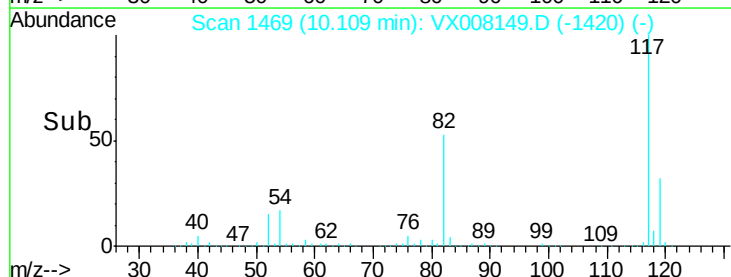
117 100

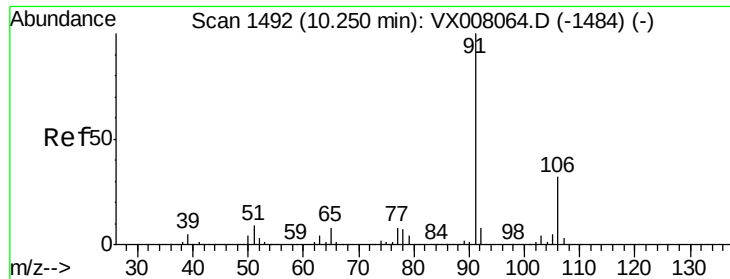
82 53.3 44.3 66.5

119 31.7 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VX008149.D (-1420) (-)

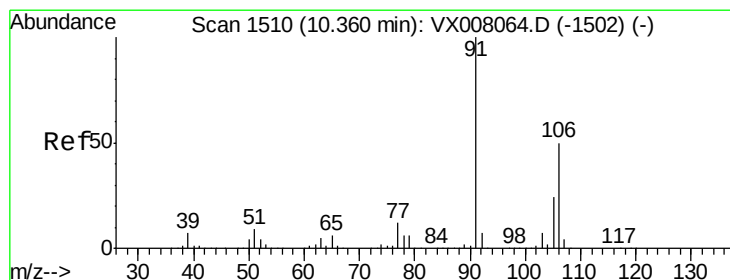
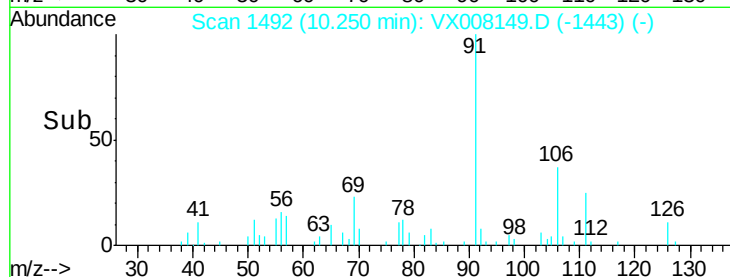
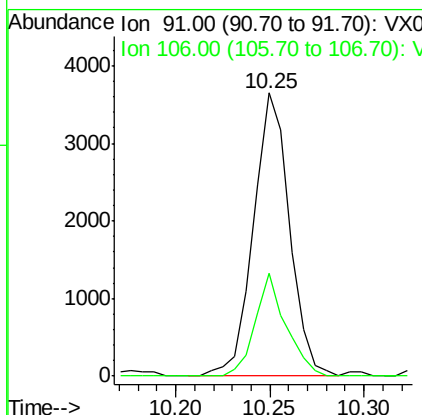
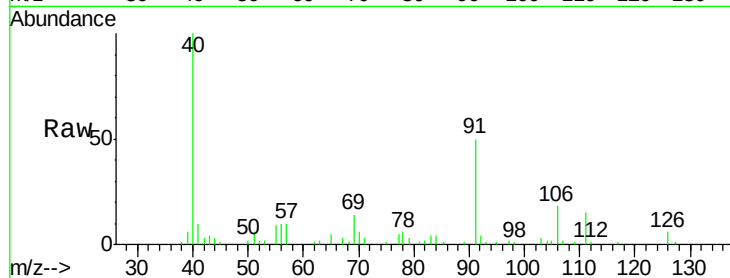




#67
Ethyl Benzene
Concen: 0.411 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX008149.D
Acq: 16 Mar 2019 18:54

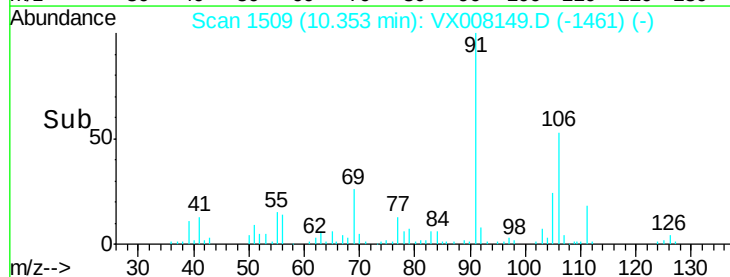
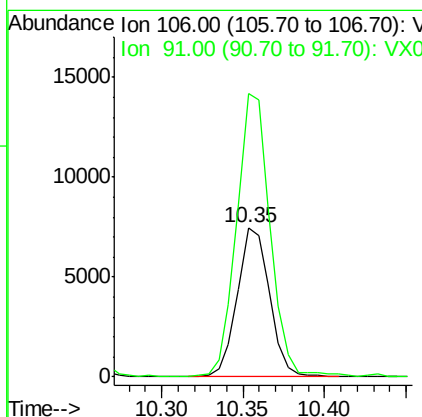
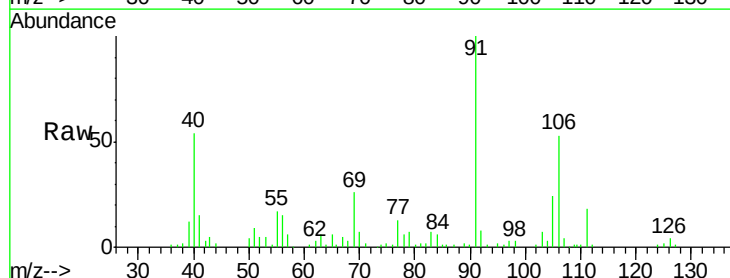
Instrument :
MSVOA_X
ClientSampleId :
T3-MW-1-9.0-031419

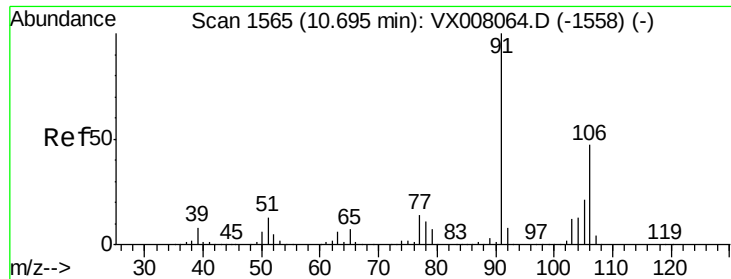
Tot Ion: 91 Resp: 4842
Ion Ratio Lower Upper
91 100
106 36.6 25.2 37.8



#68
m/p-Xylenes
Concen: 2.296 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX008149.D
Acq: 16 Mar 2019 18:54

Tgt Ion: 106 Resp: 10354
Ion Ratio Lower Upper
106 100
91 196.9 159.8 239.6

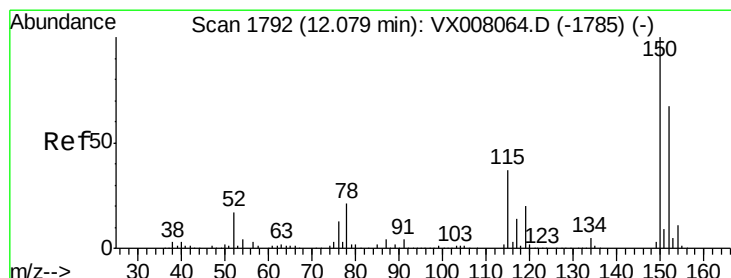
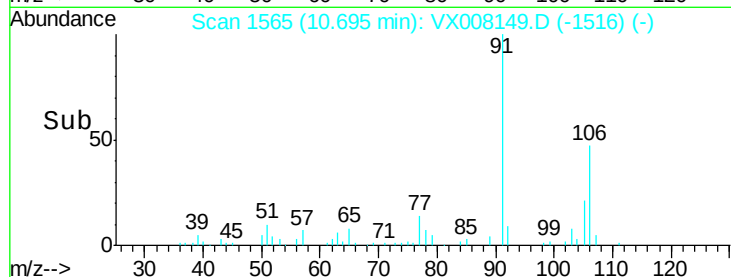
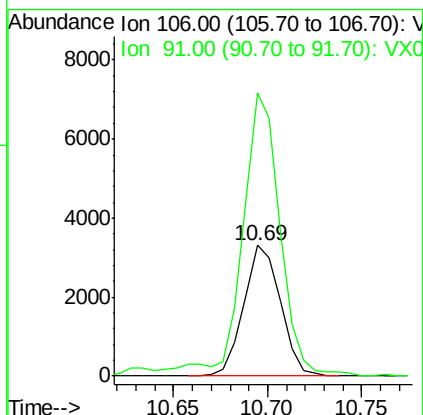
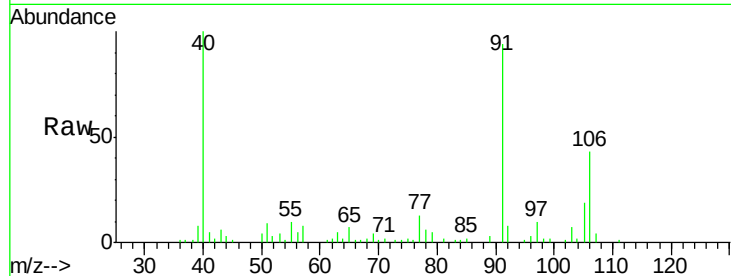




#69
o-Xylene
Concen: 1.018 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX008149.D
Acq: 16 Mar 2019 18:54

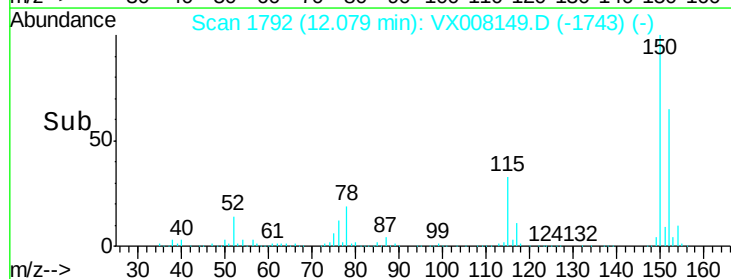
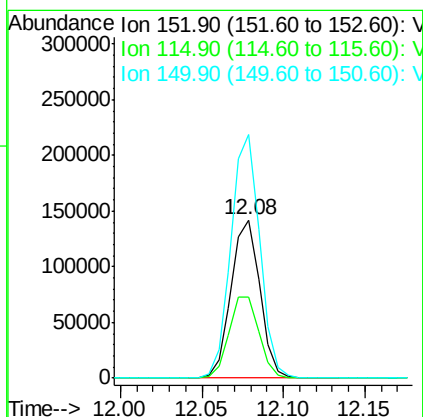
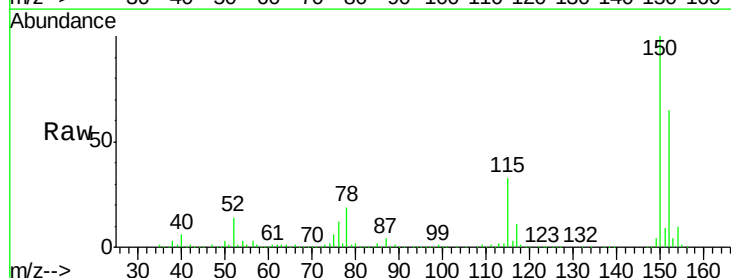
Instrument :
MSVOA_X
ClientSampleId :
T3-MW-1-9.0-031419

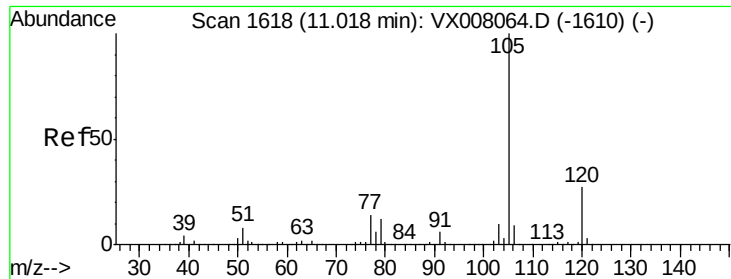
Tot Ion:106 Resp: 4475
Ion Ratio Lower Upper
106 100
91 222.6 106.3 318.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008149.D
Acq: 16 Mar 2019 18:54

Tgt Ion:152 Resp: 174318
Ion Ratio Lower Upper
152 100
115 53.5 38.6 115.7
150 154.4 0.0 348.4





#73

Isopropylbenzene

Concen: 2.030 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

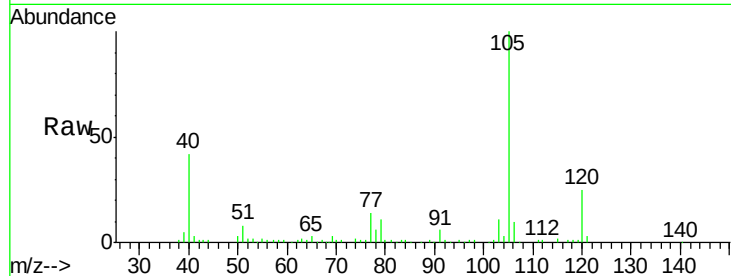
T3-MW-1-9.0-031419

Tot Ion:105 Resp: 22662

Ion Ratio Lower Upper

105 100

120 26.4 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

20000

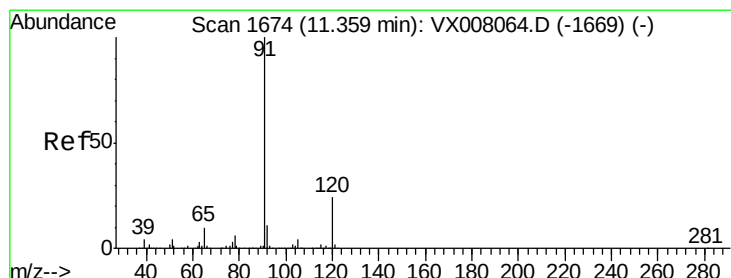
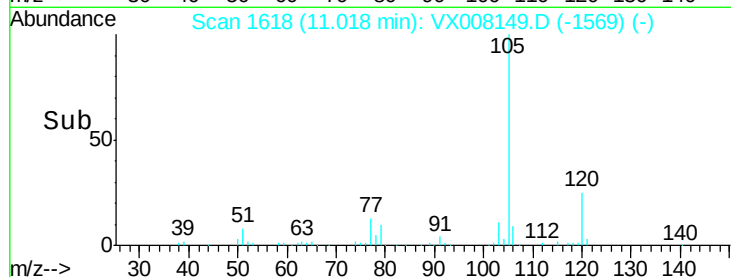
15000

10000

5000

0

Time--> 10.95 11.00 11.05 11.10



#78

n-propylbenzene

Concen: 3.282 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX008149.D

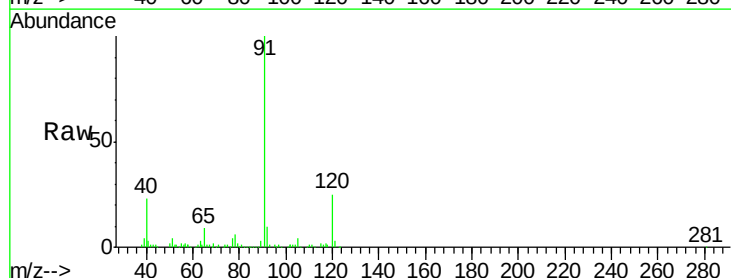
Acq: 16 Mar 2019 18:54

Tgt Ion: 91 Resp: 40205

Ion Ratio Lower Upper

91 100

120 23.8 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

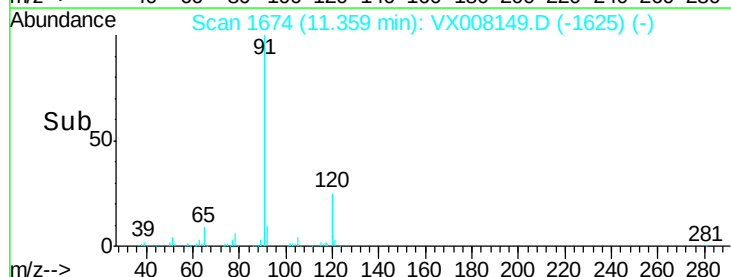
30000

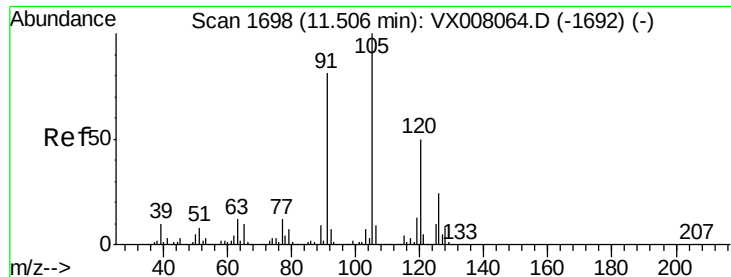
20000

10000

0

Time--> 11.30 11.35 11.40

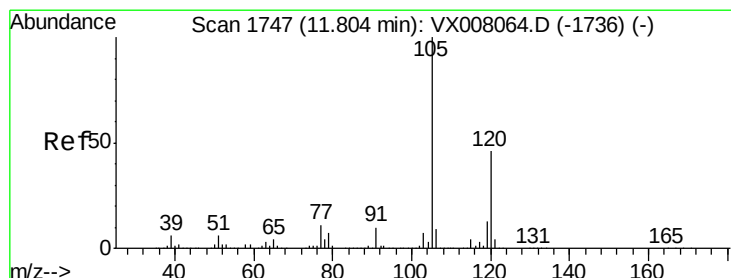
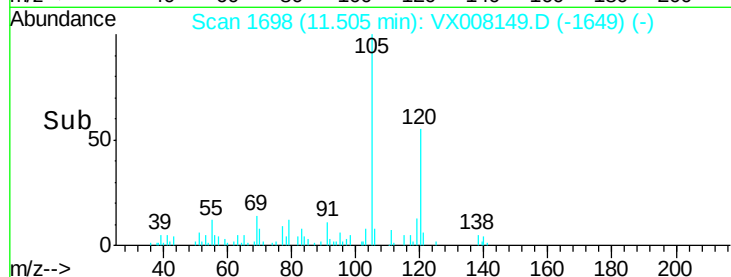
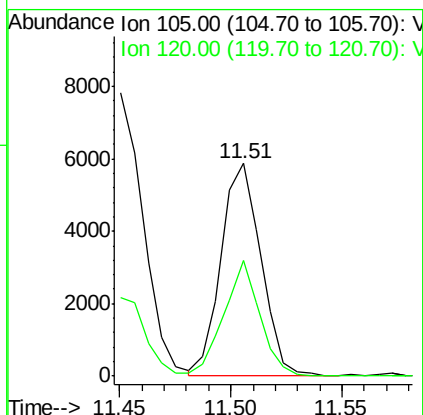
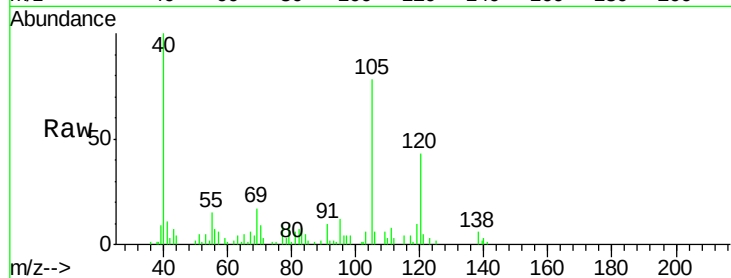




#80
 1,3,5-Trimethylbenzene
 Concen: 0.794 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX008149.D
 Acq: 16 Mar 2019 18:54

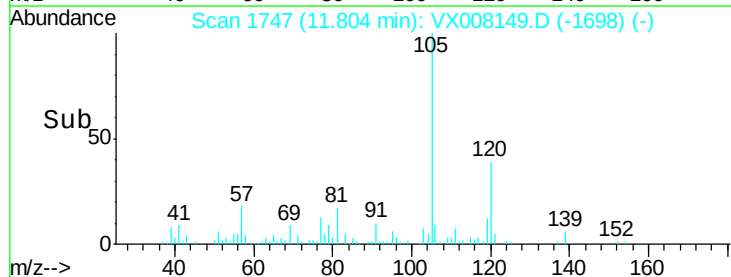
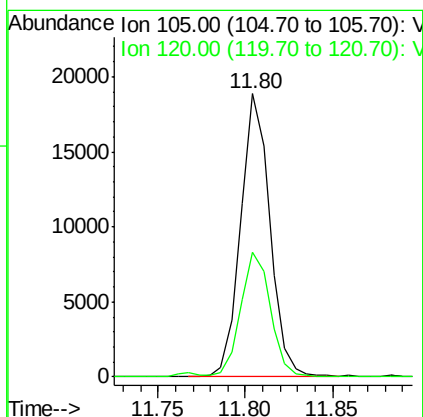
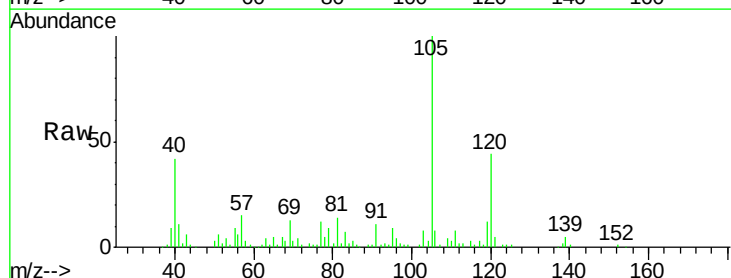
Instrument :
 MSVOA_X
 ClientSampleId :
 T3-MW-1-9.0-031419

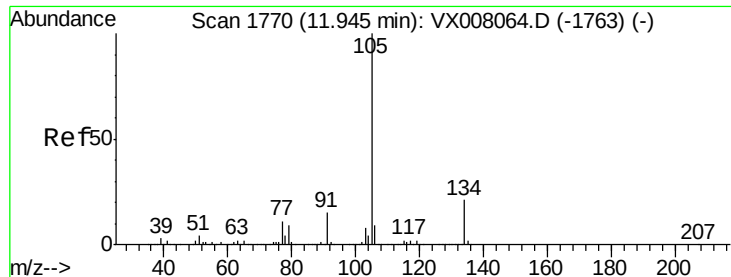
Tot Ion:105 Resp: 7308
 Ion Ratio Lower Upper
 105 100
 120 49.9 24.9 74.6



#84
 1,2,4-Trimethylbenzene
 Concen: 2.309 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: VX008149.D
 Acq: 16 Mar 2019 18:54

Tgt Ion:105 Resp: 21915
 Ion Ratio Lower Upper
 105 100
 120 44.8 22.6 67.7





#85

sec-Butylbenzene

Concen: 0.679 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

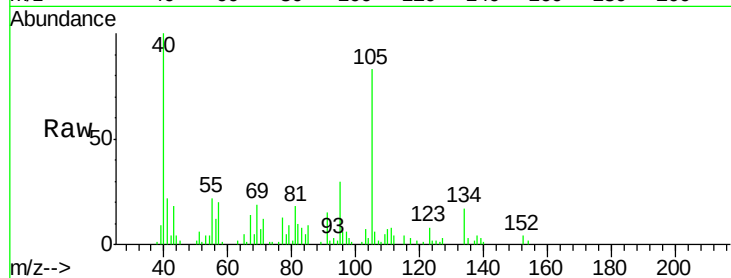
T3-MW-1-9.0-031419

Tot Ion:105 Resp: 7463

Ion Ratio Lower Upper

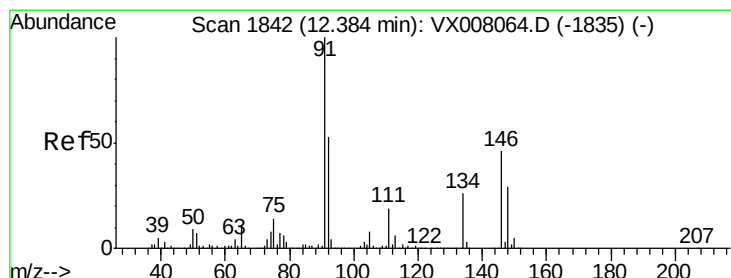
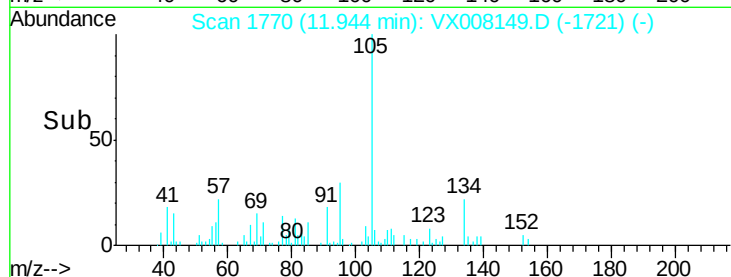
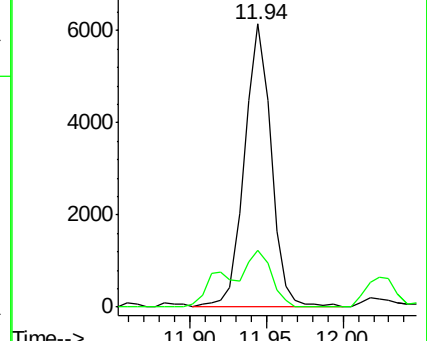
105 100

134 18.1 10.4 31.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 0.919 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

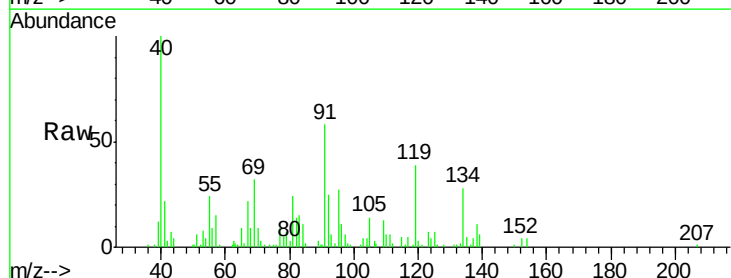
Tgt Ion: 91 Resp: 7638

Ion Ratio Lower Upper

91 100

92 36.9 27.0 80.8

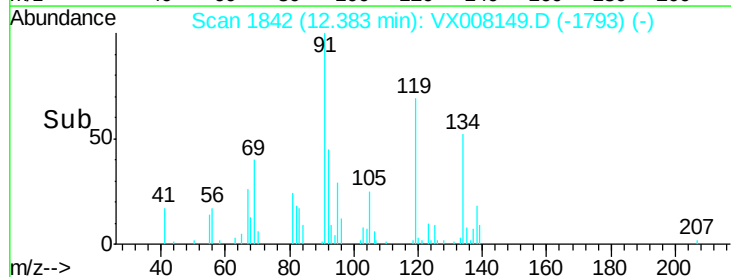
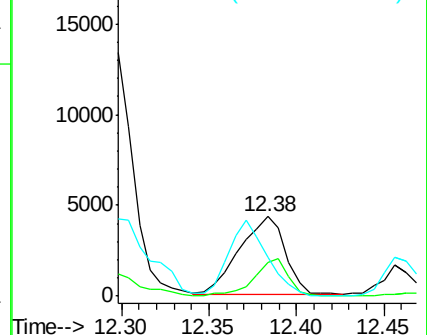
134 84.2 13.7 41.0#

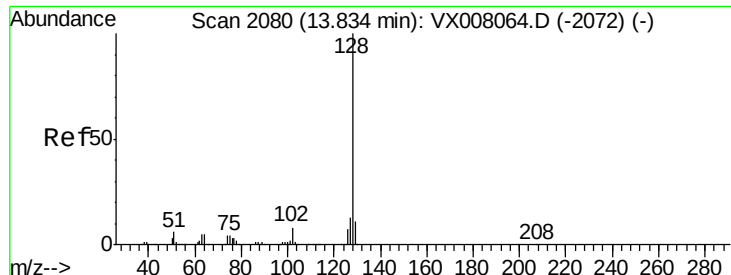


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 19.442 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008149.D

Acq: 16 Mar 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

T3-MW-1-9.0-031419

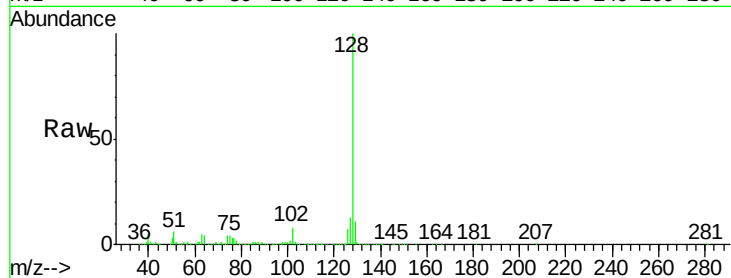
Tot Ion:128 Resp: 208378

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

129 11.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

