

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX013019\
 Data File : VX007307.D
 Acq On : 30 Jan 2019 11:51
 Operator : JC/SP
 Sample : PB116701ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116701ZHE#01

Quant Time: Jan 31 00:22:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	558599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	861574	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	843455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	405355	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	298141	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
35) Dibromofluoromethane	5.50	113	266673	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	
50) Toluene-d8	8.71	98	1052881	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
62) 4-Bromofluorobenzene	11.13	95	381141	54.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.26%	

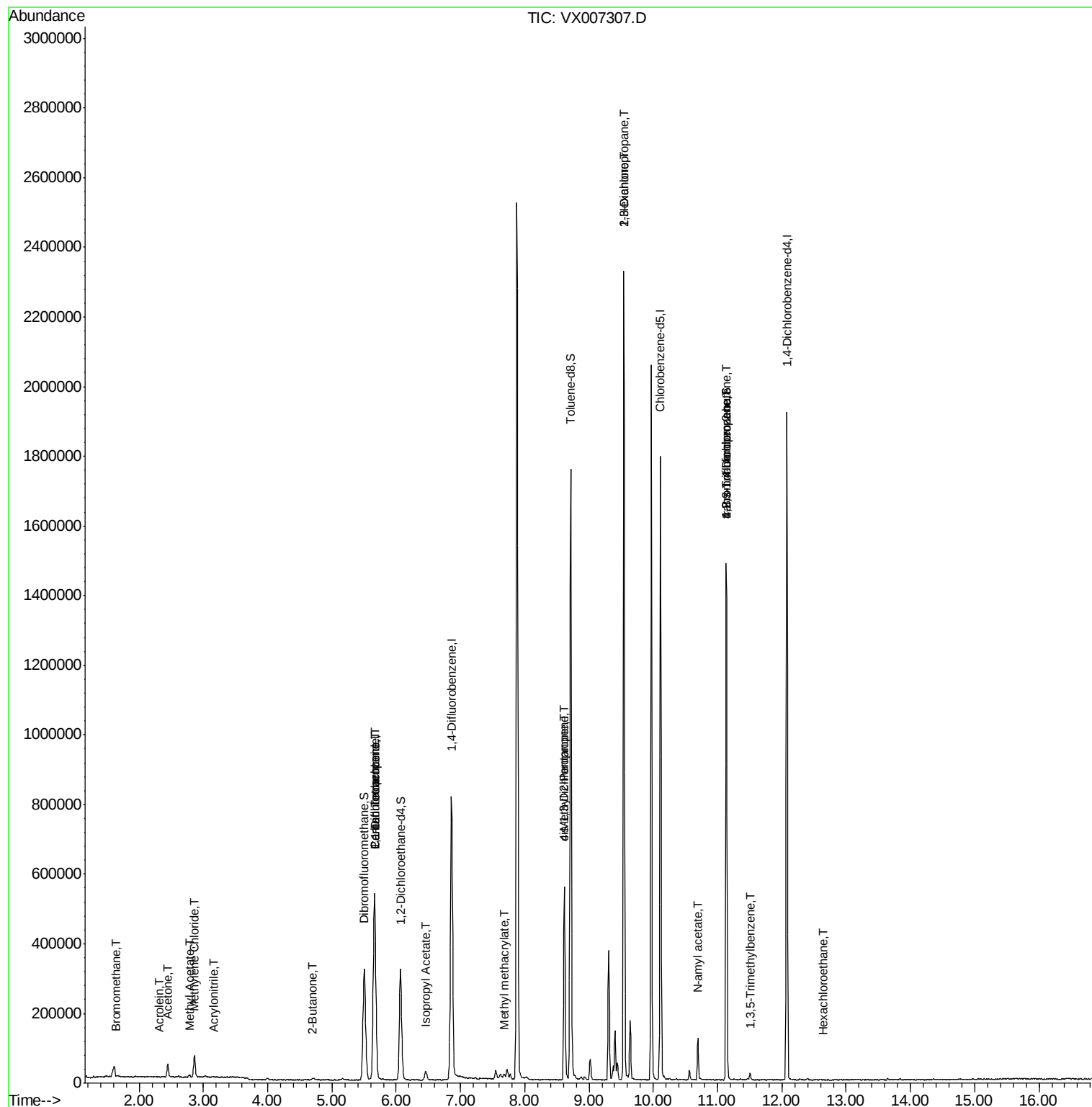
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1688	0.275	ug/l #	33
13) Acrolein	2.32	56	270	3.533	ug/l #	50
15) Acrylonitrile	3.16	53	952	0.301	ug/l #	58
16) Acetone	2.45	43	38544	13.355	ug/l	99
18) Methyl Acetate	2.78	43	8690	1.040	ug/l	93
20) Methylene Chloride	2.86	84	29173	4.803	ug/l	94
25) 2-Butanone	4.70	43	8909	2.157	ug/l #	86
36) 1,1-Dichloropropene	5.67	75	35095	4.685	ug/l #	48
38) Carbon Tetrachloride	5.67	117	51487	6.832	ug/l #	15
43) Isopropyl Acetate	6.45	43	32428	2.560	ug/l	98
48) Methyl methacrylate	7.68	41	16367	2.516	ug/l #	13
49) 1,4-Dioxane	7.76	88	127	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	174971	21.493	ug/l #	46
54) cis-1,3-Dichloropropene	8.62	75	85741	10.186	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	19271	2.000	ug/l #	44
59) 2-Hexanone	9.54	43	250450	40.371	ug/l #	51
74) N-amyl acetate	10.69	43	27081	2.353	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	182110	22.170	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	7656	0.321	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.13	75	182110	65.626	ug/l #	10
90) Hexachloroethane	12.64	117	42	2.918	ug/l	79

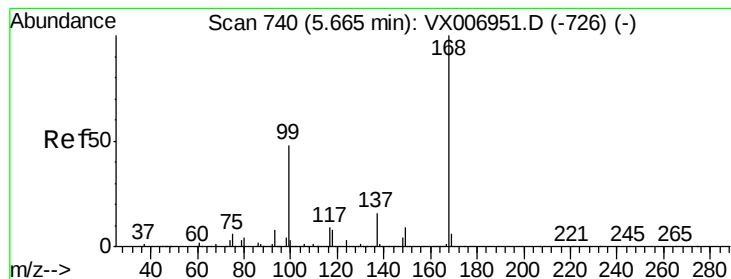
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 31 00:22:03 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

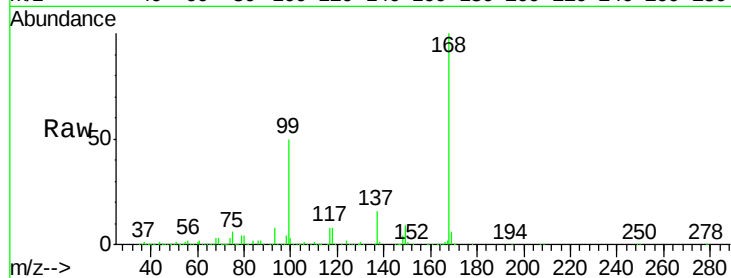
PB116701ZHE#01

Tot Ion:168 Resp: 558599

Ion Ratio Lower Upper

168 100

99 49.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

100000

50000

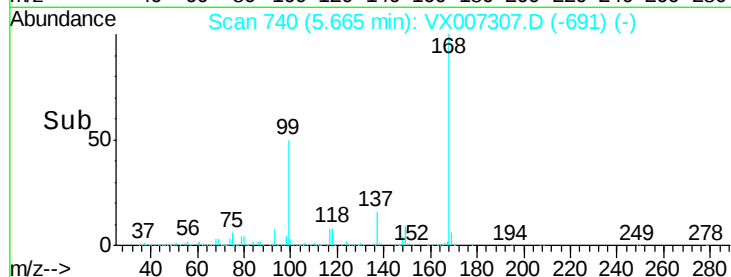
0

5.67

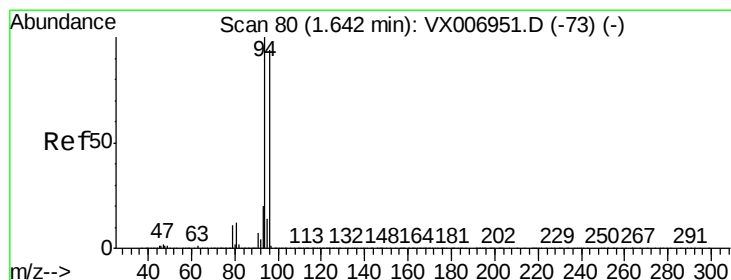
5.60

5.70

5.80



Time-->



#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007307.D

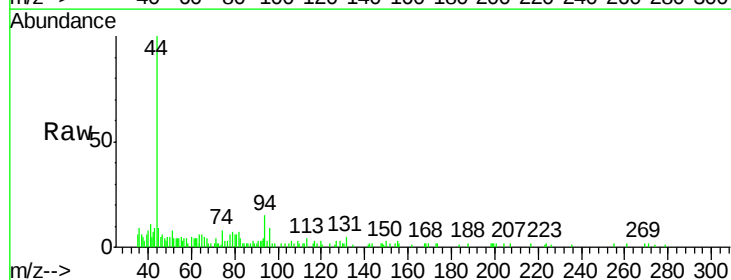
Acq: 30 Jan 2019 11:51

Tgt Ion: 94 Resp: 1688

Ion Ratio Lower Upper

94 100

96 27.7 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

400

200

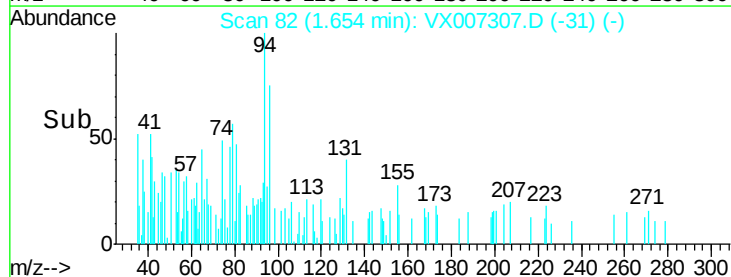
0

1.65

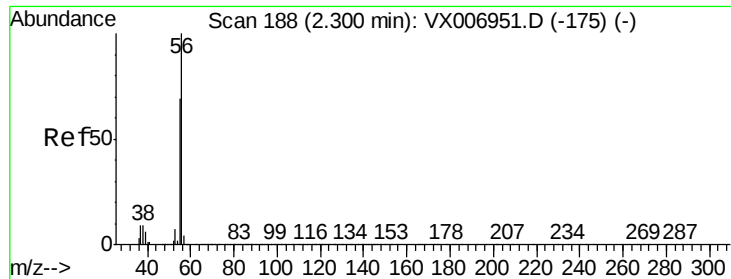
1.60

1.70

1.75



Time-->



#13

Acrolein

Concen: 3.533 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

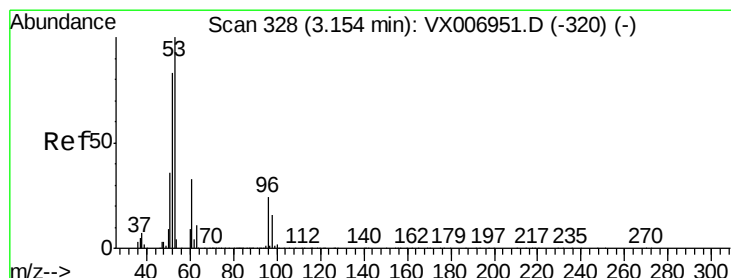
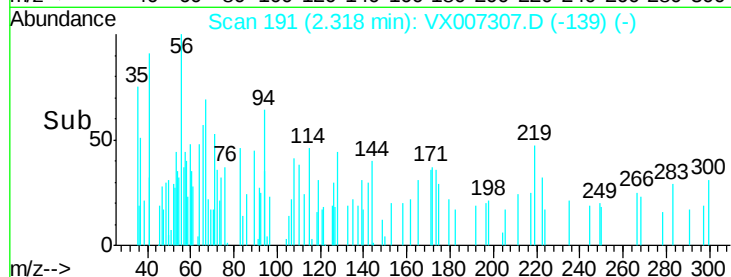
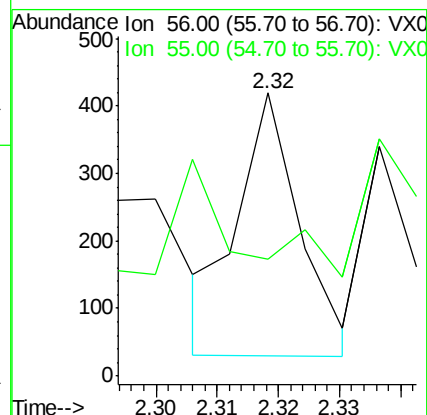
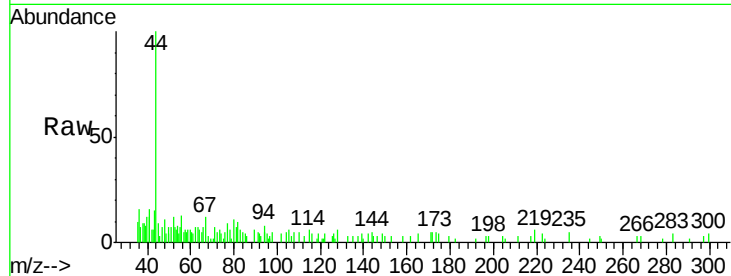
PB116701ZHE#01

Tot Ion: 56 Resp: 270

Ion Ratio Lower Upper

56 100

55 30.7 58.2 87.4#



#15

Acrylonitrile

Concen: 0.301 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

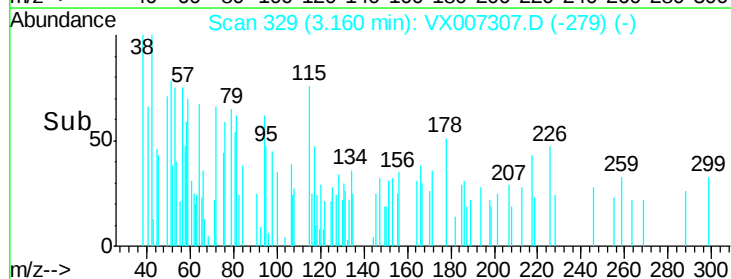
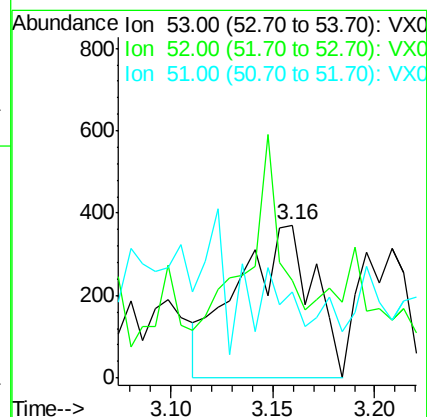
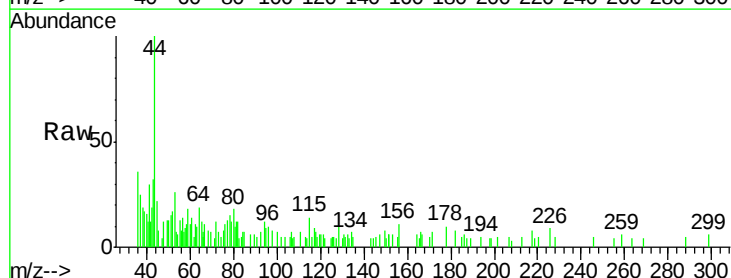
Tgt Ion: 53 Resp: 952

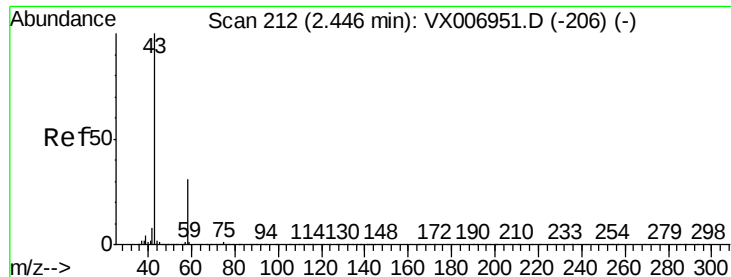
Ion Ratio Lower Upper

53 100

52 51.8 66.0 99.0#

51 0.0 28.6 42.8#

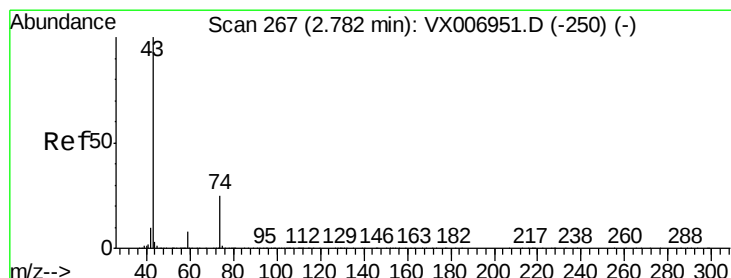
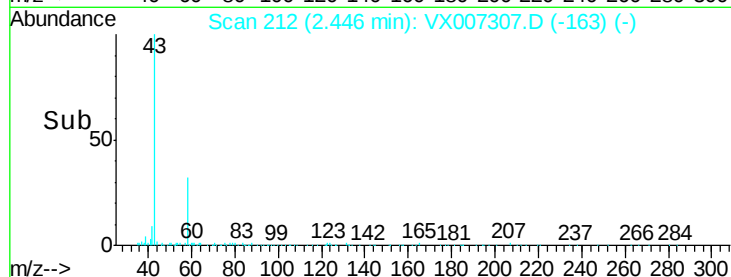
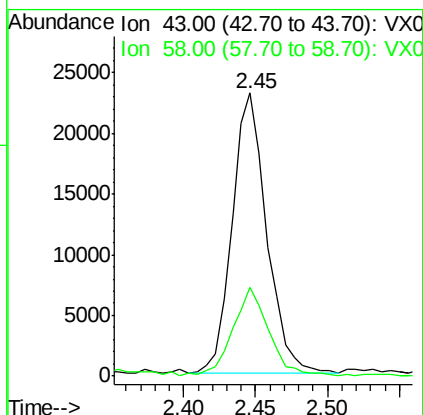
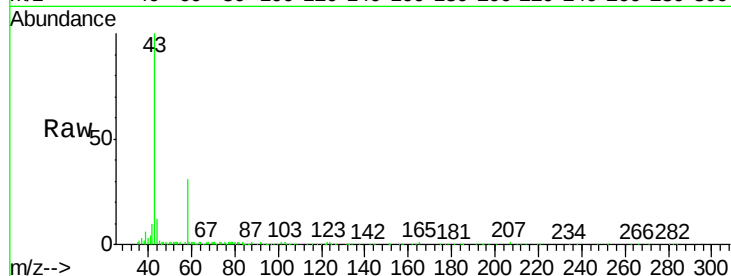




#16
Acetone
Concen: 13.355 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007307.D
Acq: 30 Jan 2019 11:51

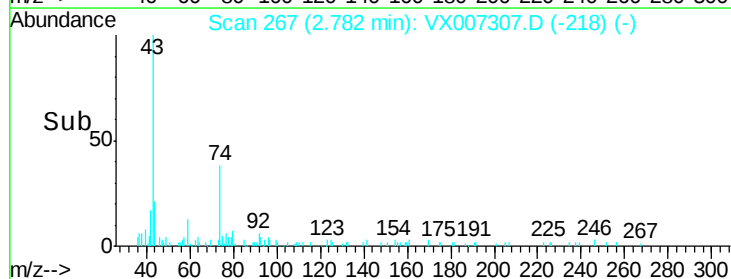
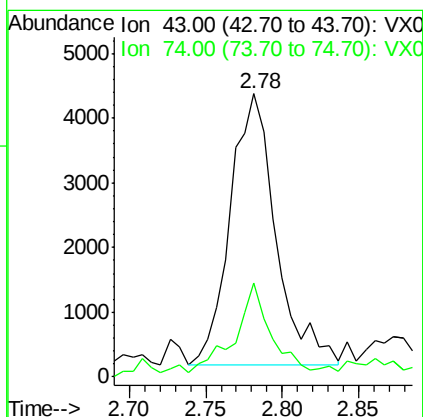
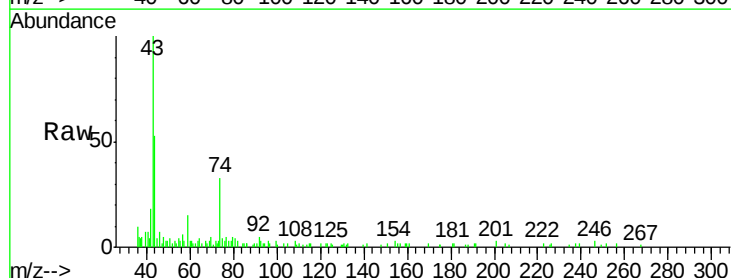
Instrument :
MSVOA_X
ClientSampleId :
PB116701ZHE#01

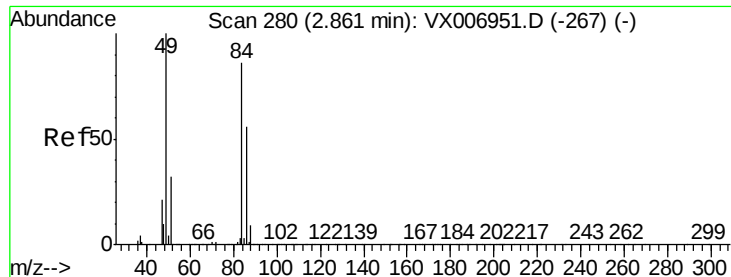
Tot Ion: 43 Resp: 38544
Ion Ratio Lower Upper
43 100
58 31.6 25.0 37.6



#18
Methyl Acetate
Concen: 1.040 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007307.D
Acq: 30 Jan 2019 11:51

Tgt Ion: 43 Resp: 8690
Ion Ratio Lower Upper
43 100
74 26.8 18.6 28.0





#20

Methylene Chloride

Concen: 4.803 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#01

Tot Ion: 84 Resp: 29173

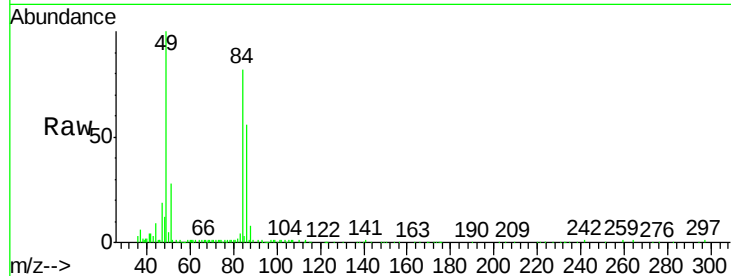
Ion Ratio Lower Upper

84 100

49 121.0 91.8 137.6

51 33.6 28.5 42.7

86 68.1 50.2 75.2



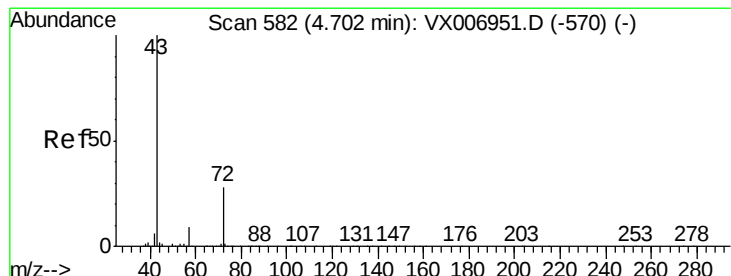
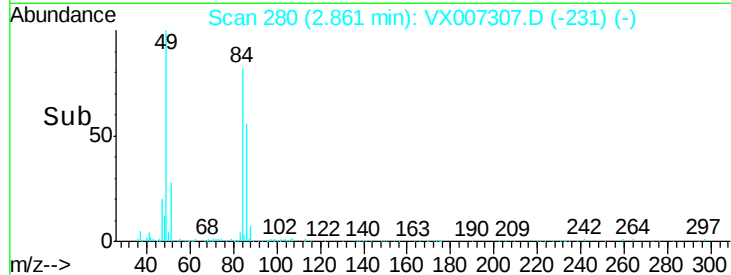
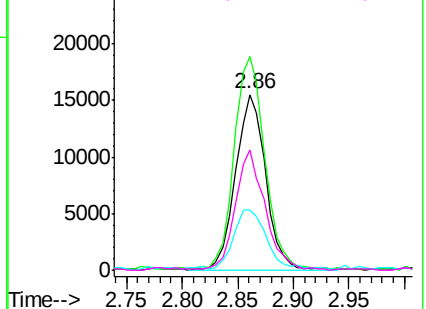
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 2.157 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX007307.D

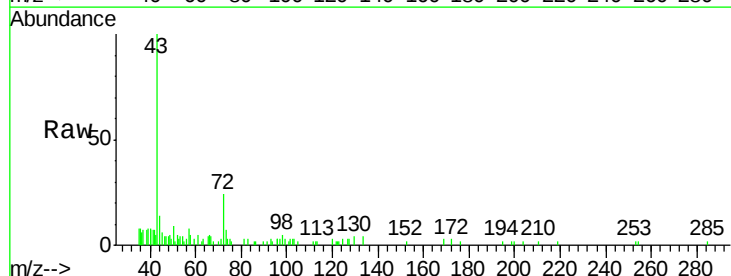
Acq: 30 Jan 2019 11:51

Tgt Ion: 43 Resp: 8909

Ion Ratio Lower Upper

43 100

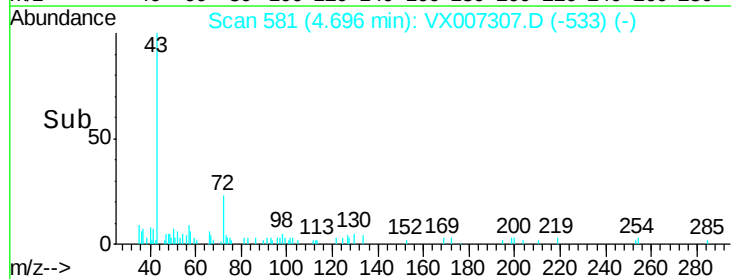
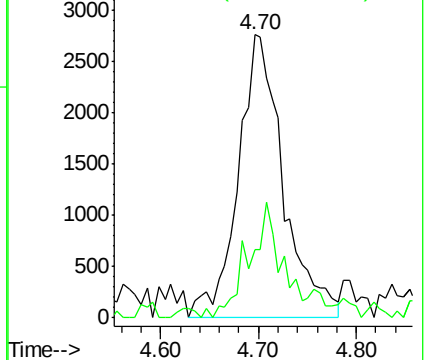
72 20.6 22.4 33.6#

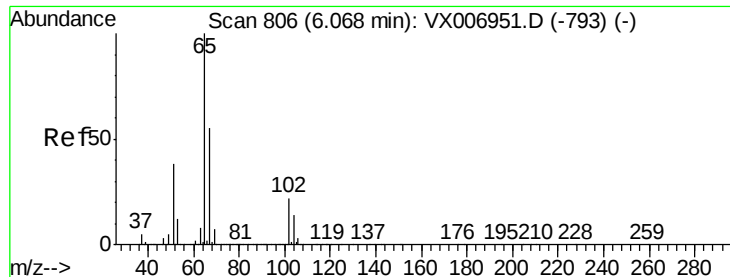


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.070 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

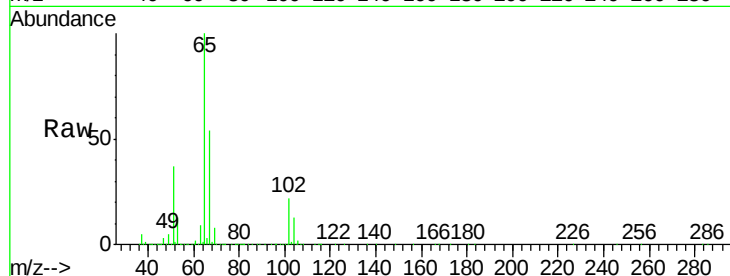
PB116701ZHE#01

Tot Ion: 65 Resp: 298141

Ion Ratio Lower Upper

65 100

67 53.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

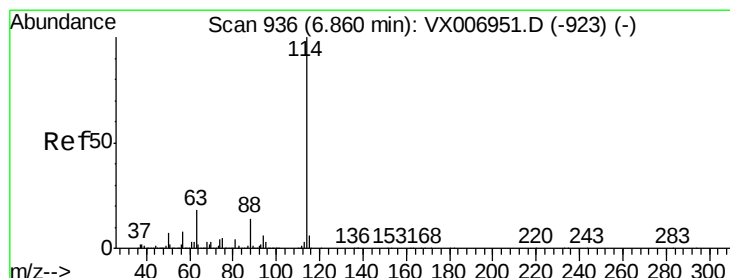
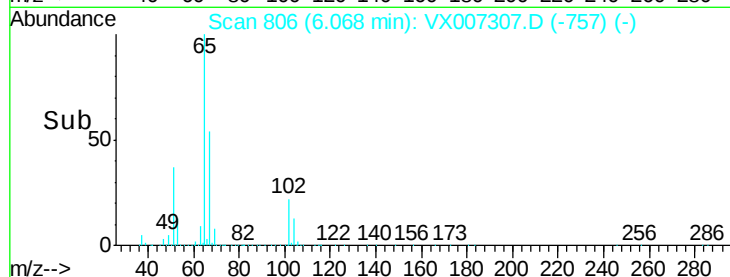
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

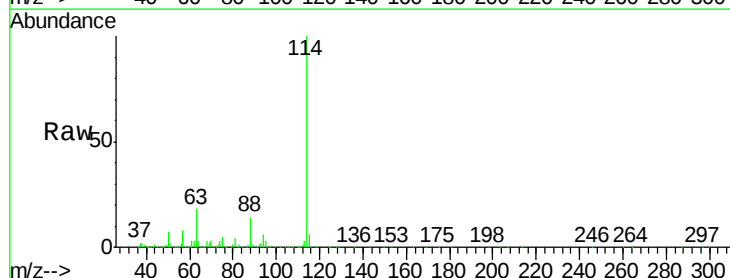
Tgt Ion: 114 Resp: 861574

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.8

88 14.0 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

500000

400000

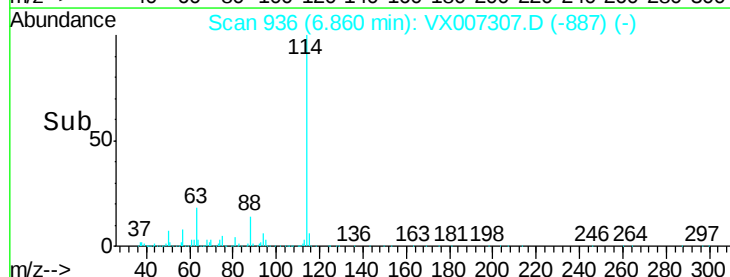
300000

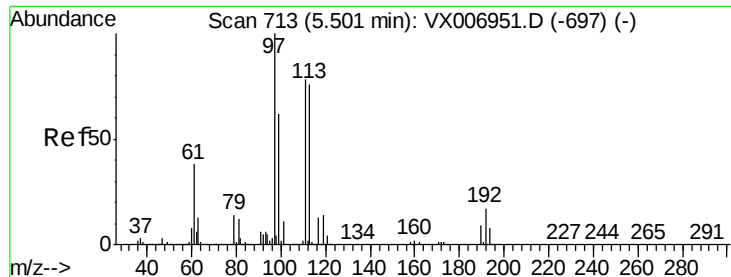
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.333 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#01

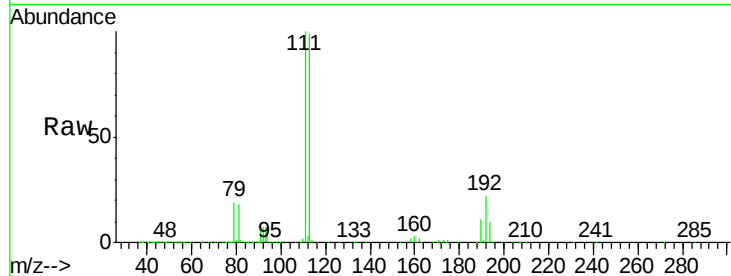
Tot Ion:113 Resp: 266673

Ion Ratio Lower Upper

113 100

111 103.3 81.6 122.4

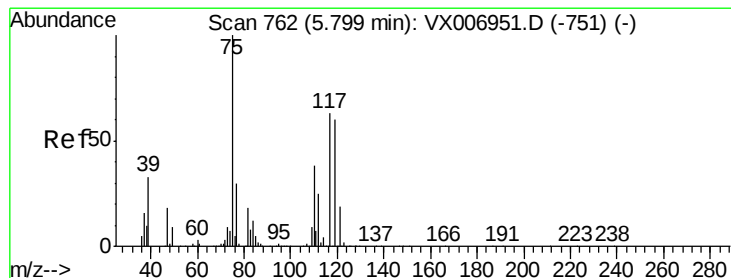
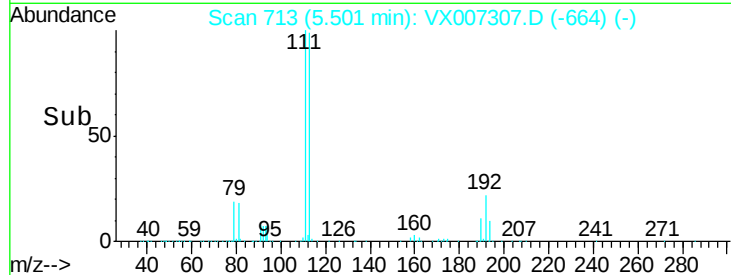
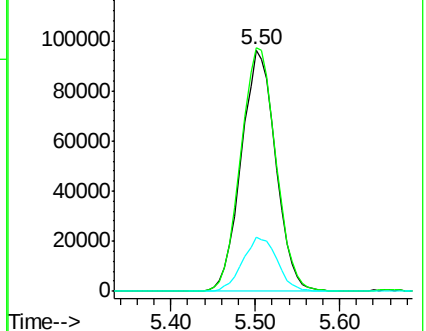
192 22.6 16.7 25.1



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



#36

1,1-Dichloropropene

Concen: 4.685 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

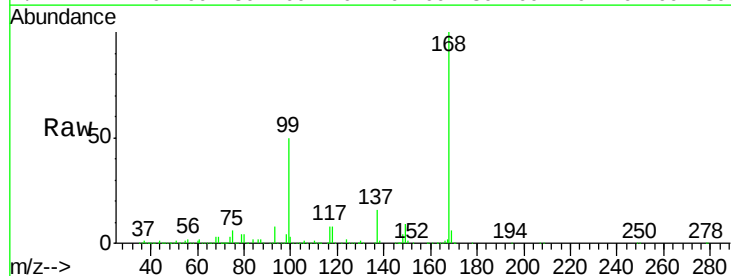
Tgt Ion: 75 Resp: 35095

Ion Ratio Lower Upper

75 100

110 10.0 20.2 60.5#

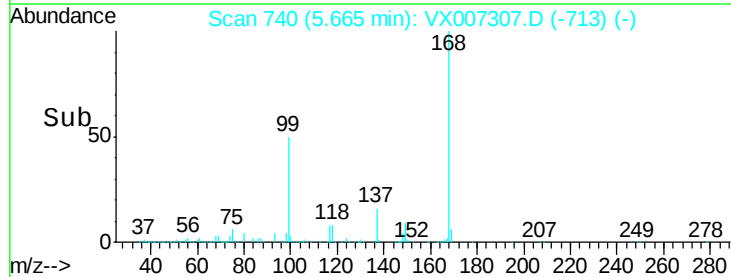
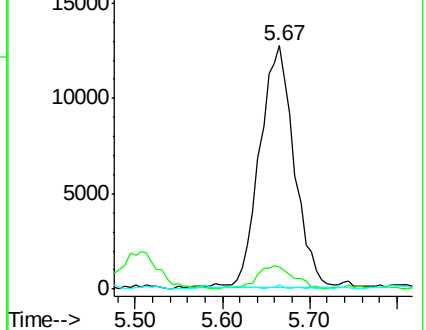
77 0.5 24.8 37.2#

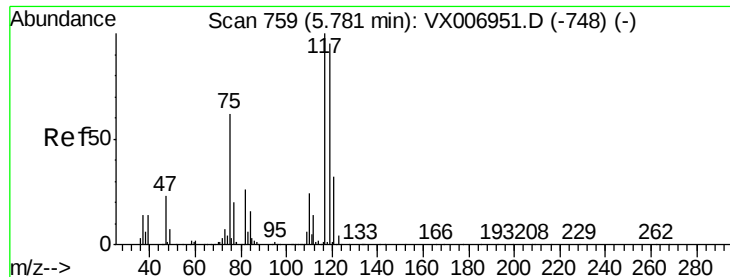


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.832 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#01

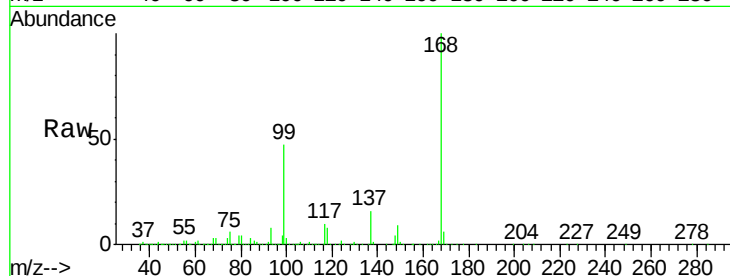
Tot Ion:117 Resp: 51487

Ion Ratio Lower Upper

117 100

119 5.1 79.4 119.2#

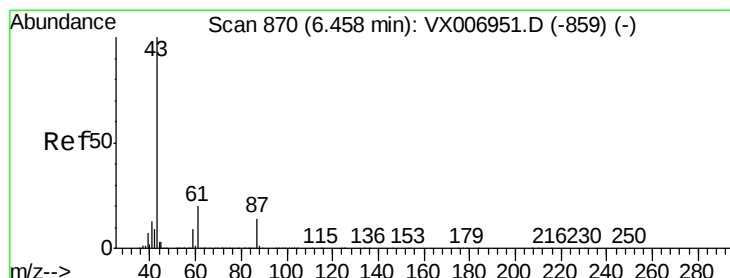
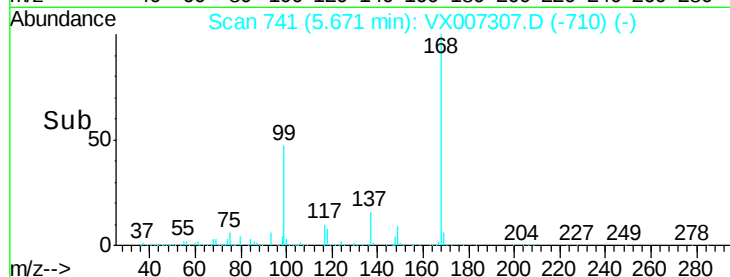
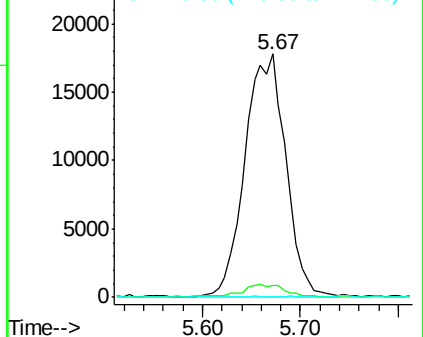
121 0.4 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.560 ug/l

RT: 6.45 min Scan# 869

Delta R.T. -0.01 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

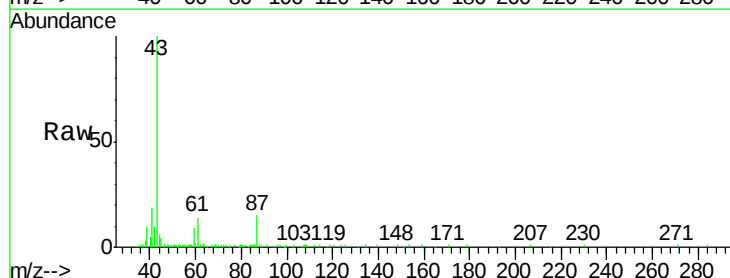
Tgt Ion: 43 Resp: 32428

Ion Ratio Lower Upper

43 100

61 19.9 16.8 25.2

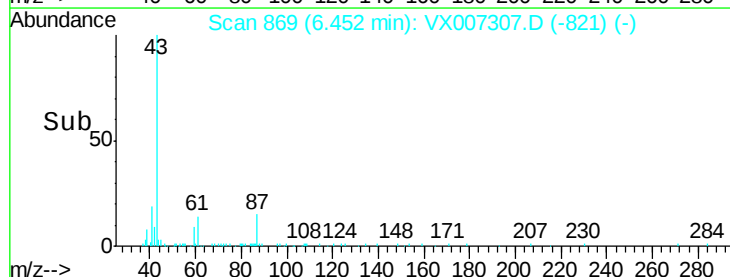
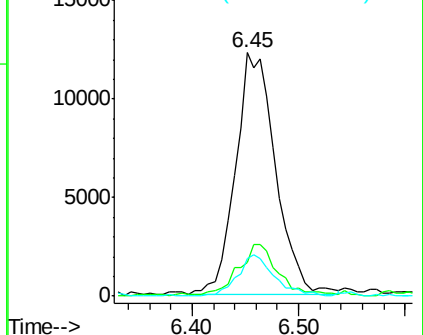
87 15.8 12.4 18.6

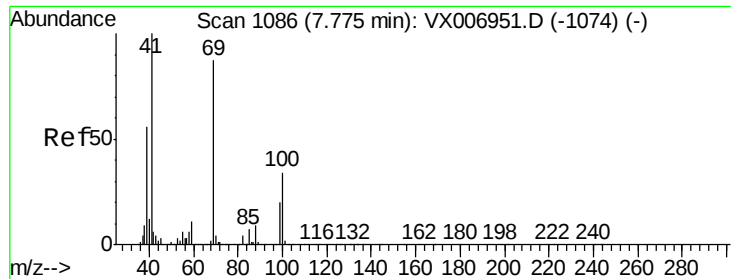


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 2.516 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#01

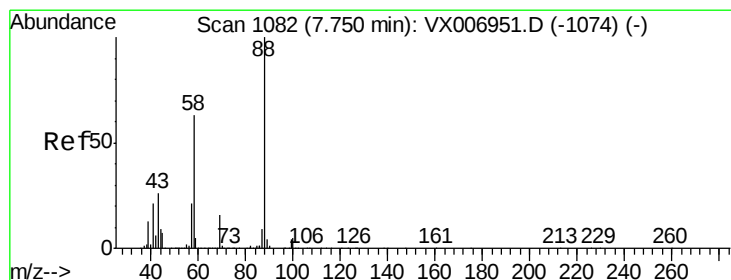
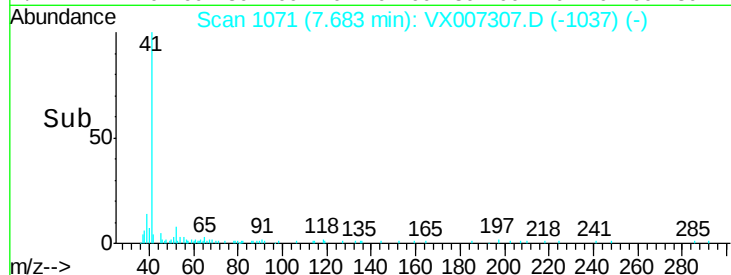
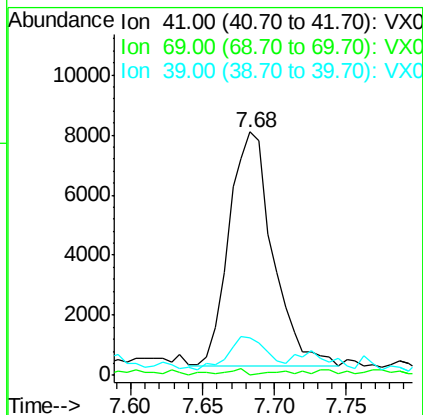
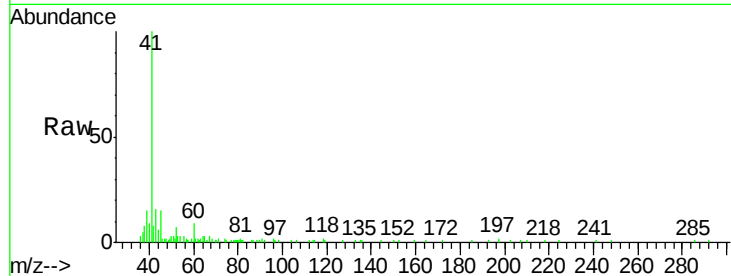
Tot Ion: 41 Resp: 16367

Ion Ratio Lower Upper

41 100

69 1.9 72.4 108.6#

39 0.0 45.8 68.8#



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

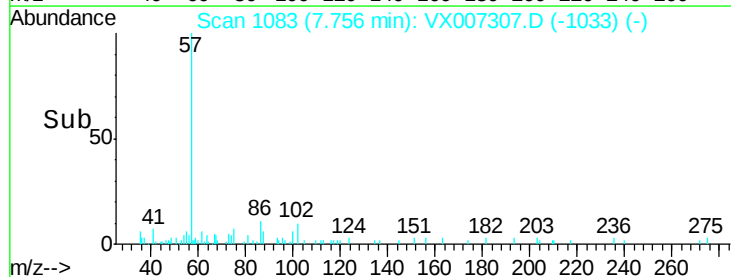
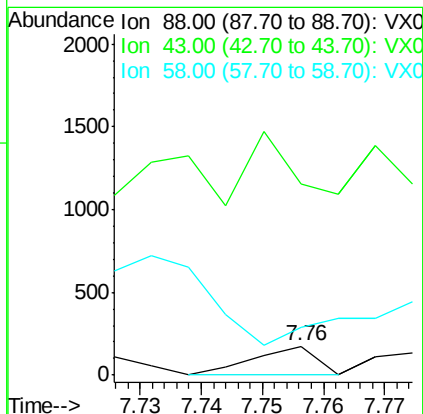
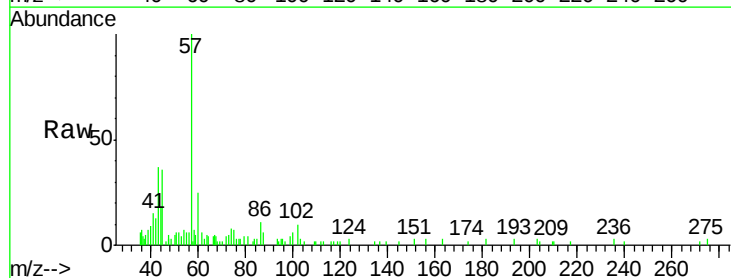
Tgt Ion: 88 Resp: 127

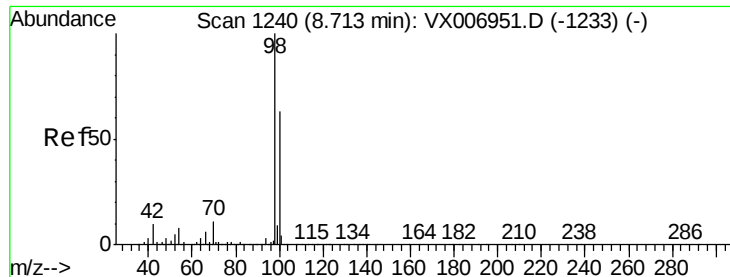
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 0.0 51.0 76.4#





#50

Toluene-d8

Concen: 52.134 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

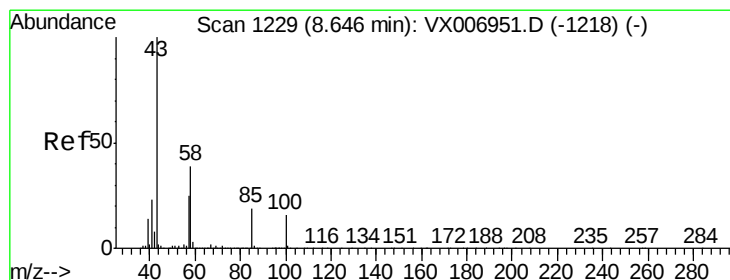
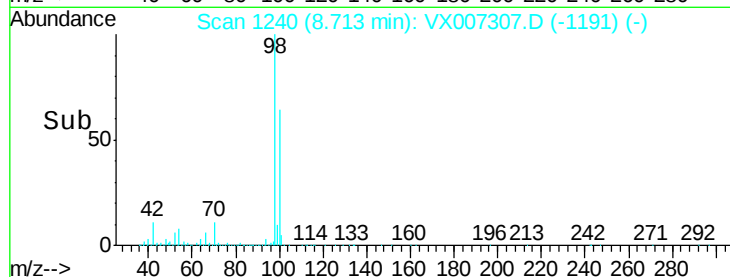
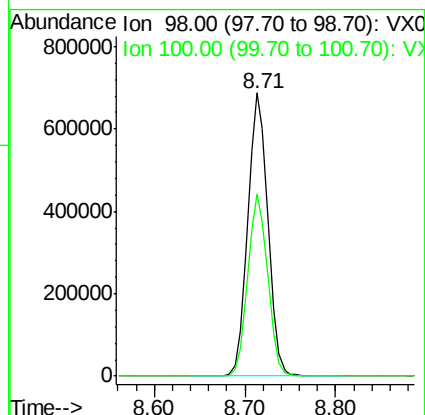
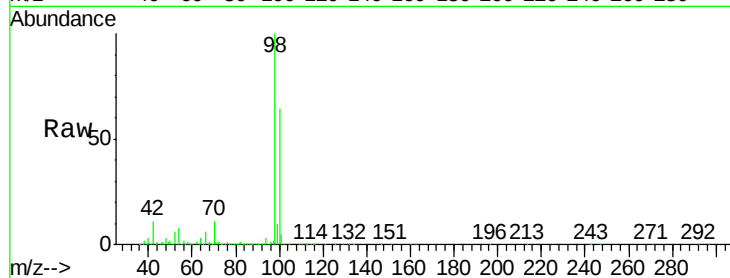
PB116701ZHE#01

Tot Ion: 98 Resp: 1052881

Ion Ratio Lower Upper

98 100

100 63.7 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 21.493 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007307.D

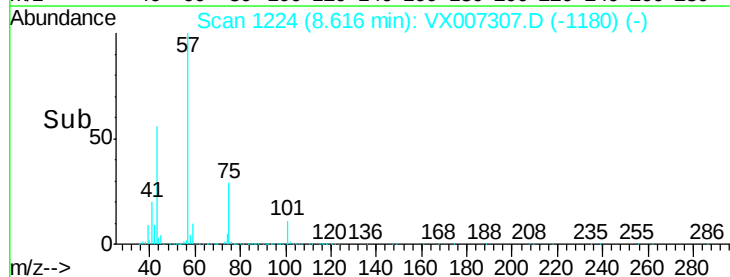
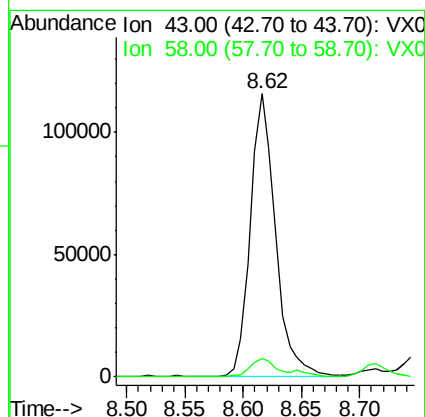
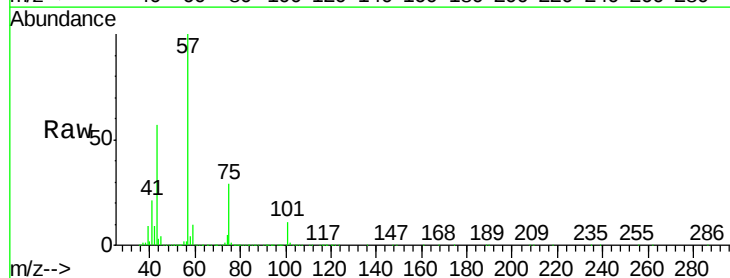
Acq: 30 Jan 2019 11:51

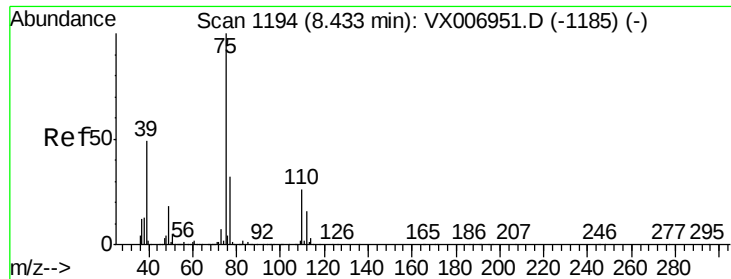
Tgt Ion: 43 Resp: 174971

Ion Ratio Lower Upper

43 100

58 6.6 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 10.186 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#01

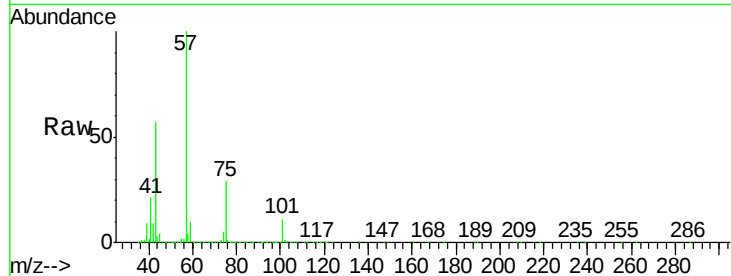
Tot Ion: 75 Resp: 85741

Ion Ratio Lower Upper

75 100

77 0.2 26.2 39.2#

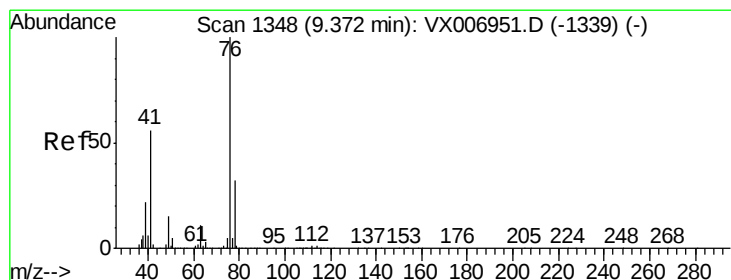
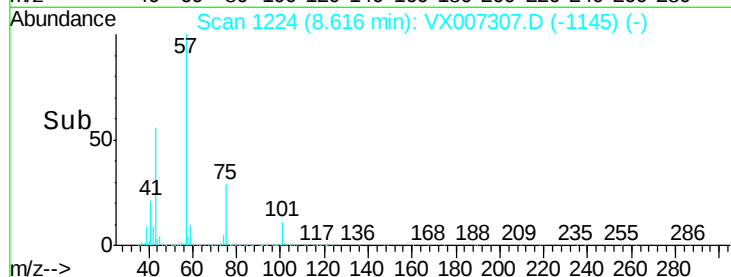
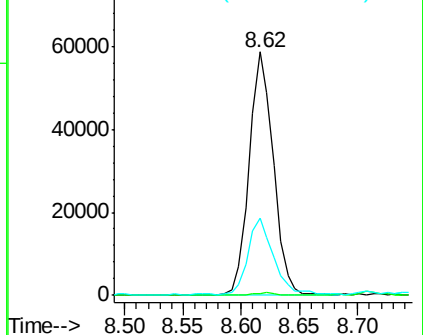
39 31.4 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 2.000 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007307.D

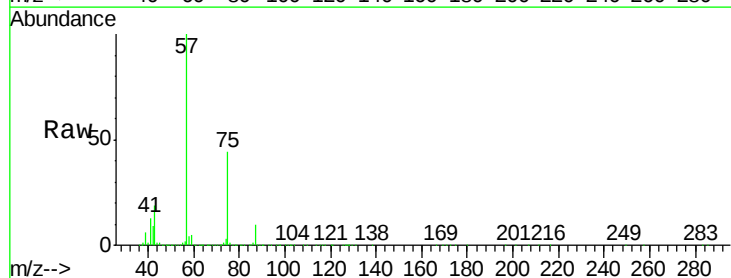
Acq: 30 Jan 2019 11:51

Tgt Ion: 76 Resp: 19271

Ion Ratio Lower Upper

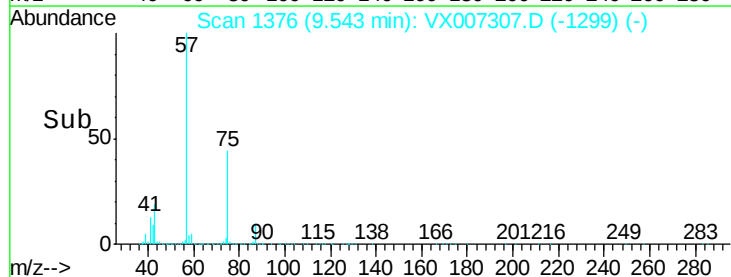
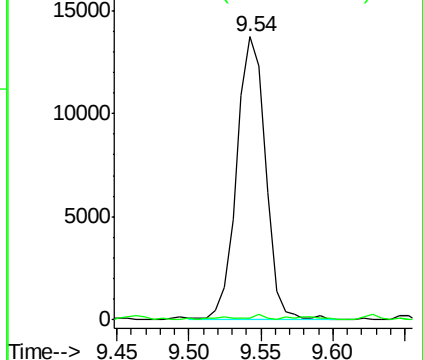
76 100

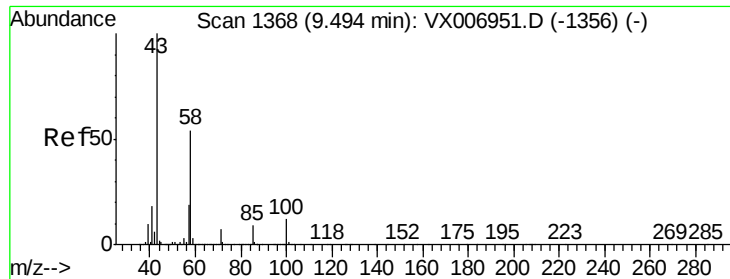
78 1.1 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#59

2-Hexanone

Concen: 40.371 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

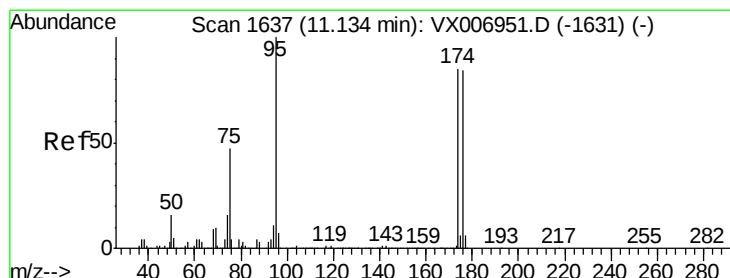
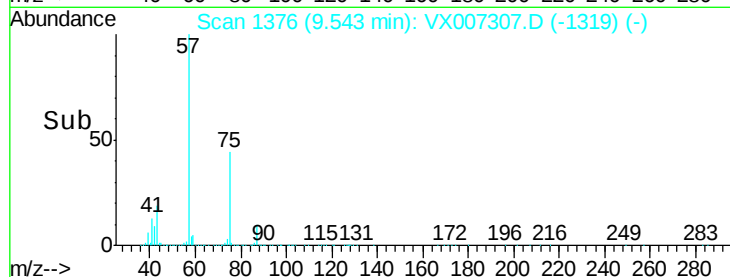
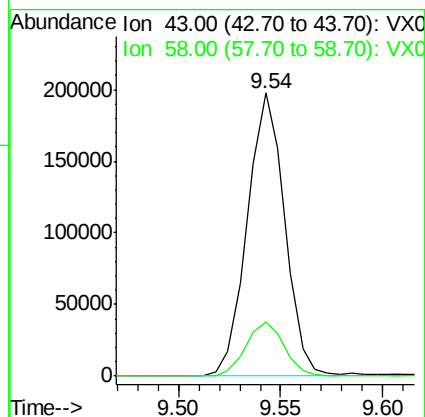
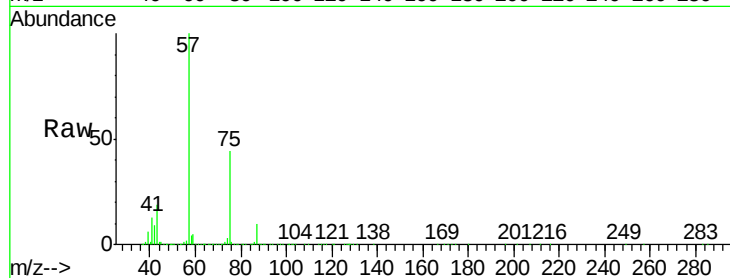
PB116701ZHE#01

Tot Ion: 43 Resp: 250450

Ion Ratio Lower Upper

43 100

58 20.1 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 54.134 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

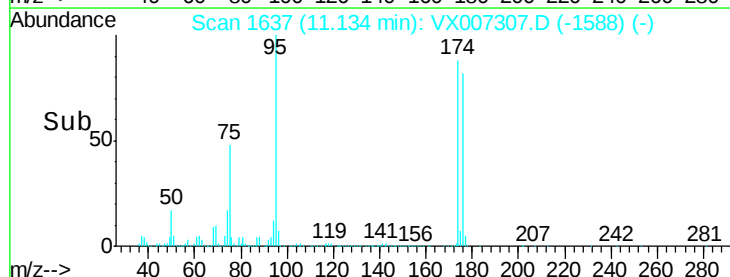
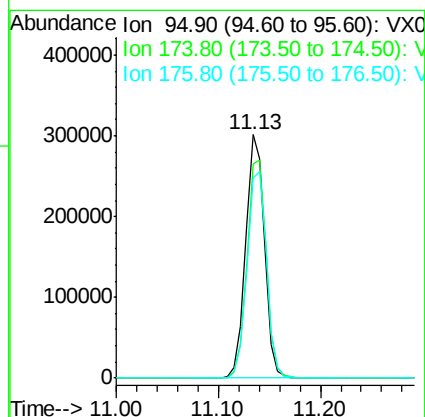
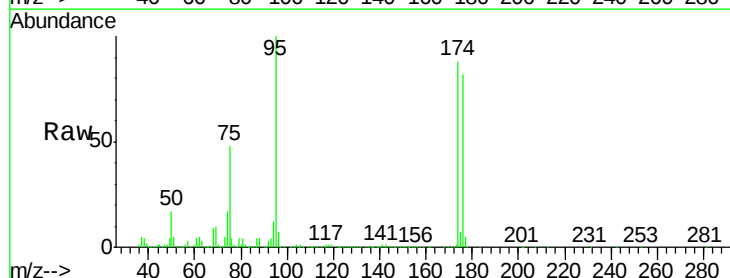
Tgt Ion: 95 Resp: 381141

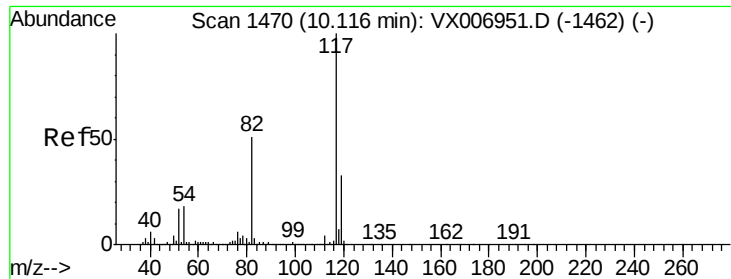
Ion Ratio Lower Upper

95 100

174 93.0 0.0 182.2

176 88.8 0.0 178.8

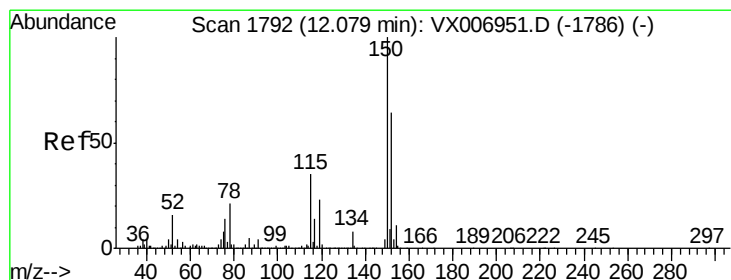
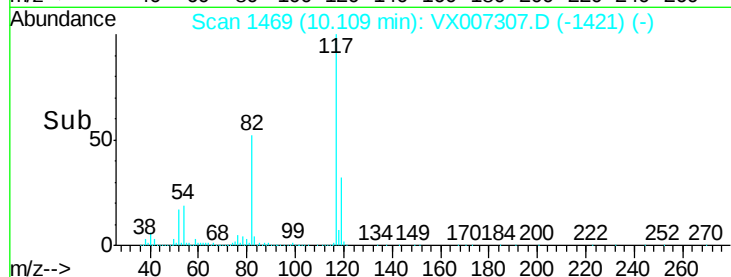
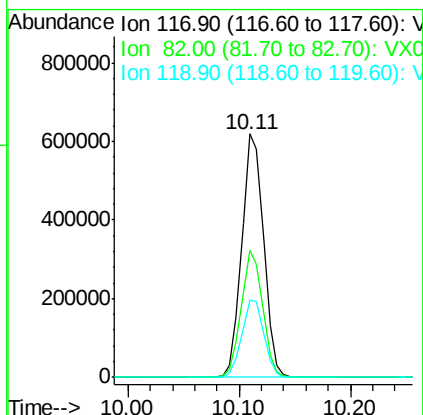
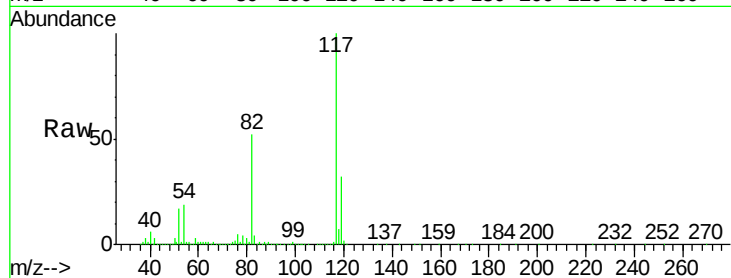




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007307.D
Acq: 30 Jan 2019 11:51

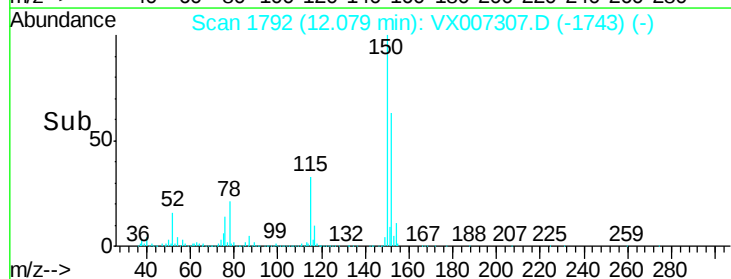
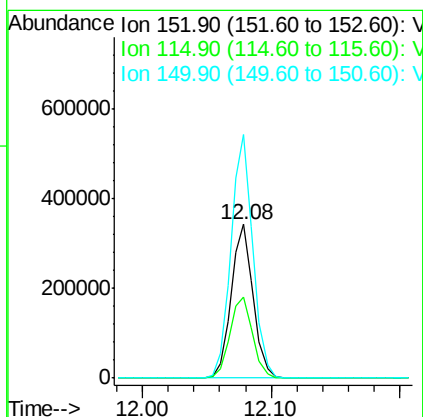
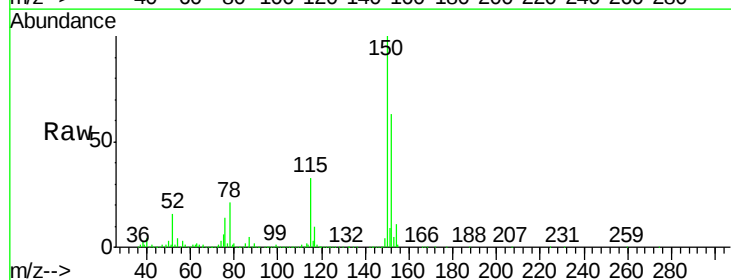
Instrument :
MSVOA_X
ClientSampleId :
PB116701ZHE#01

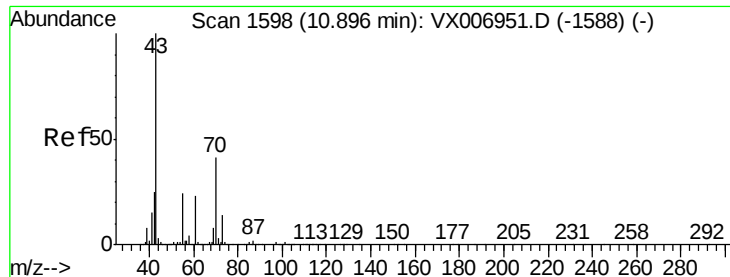
Tot Ion:117 Resp: 843455
Ion Ratio Lower Upper
117 100
82 52.3 41.0 61.6
119 31.6 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007307.D
Acq: 30 Jan 2019 11:51

Tgt Ion:152 Resp: 405355
Ion Ratio Lower Upper
152 100
115 54.5 39.1 117.2
150 158.3 0.0 344.8





#74

N-amvl acetate

Concen: 2.353 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#01

Tot Ion: 43 Resp: 27081

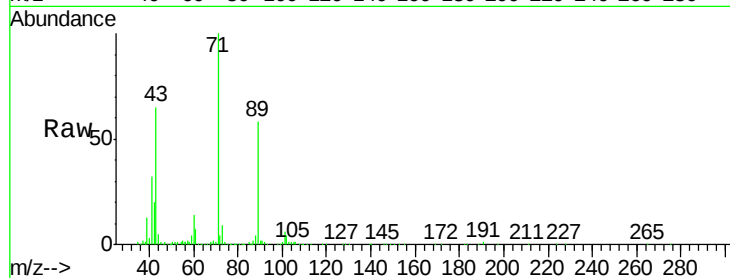
Ion Ratio Lower Upper

43 100

70 3.3 35.8 53.8#

55 5.4 19.4 29.0#

61 12.9 20.1 30.1#

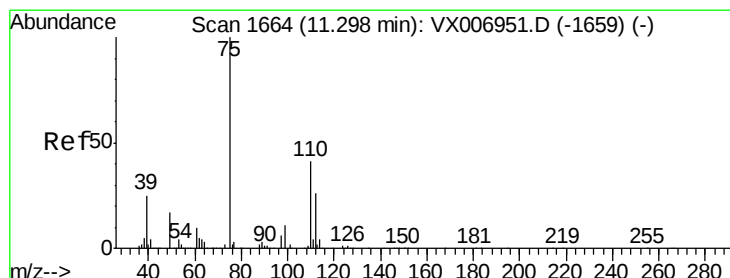
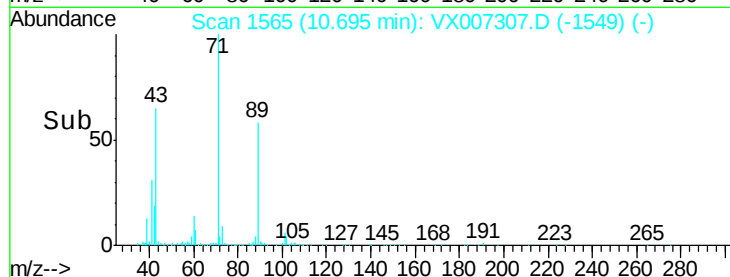
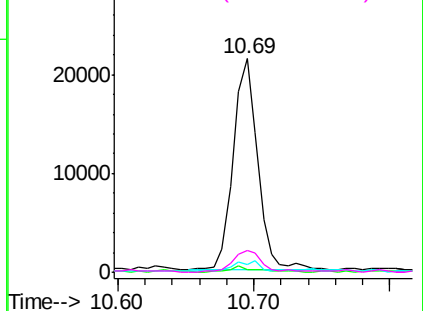


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.170 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007307.D

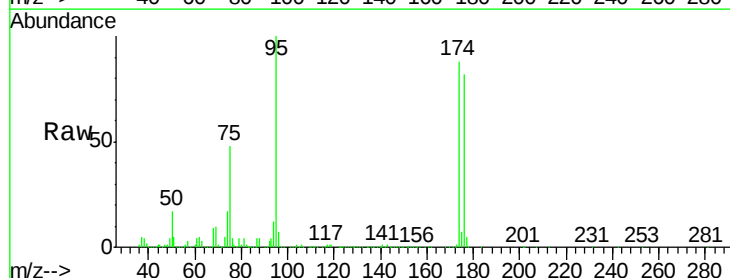
Acq: 30 Jan 2019 11:51

Tgt Ion: 75 Resp: 182110

Ion Ratio Lower Upper

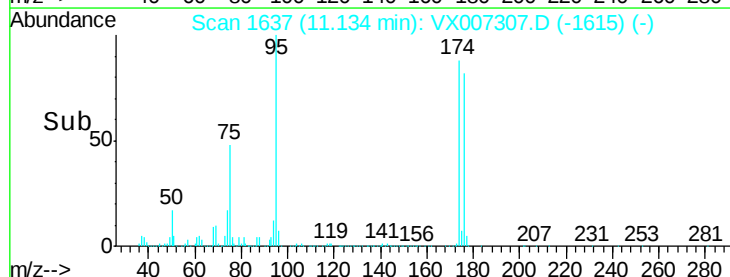
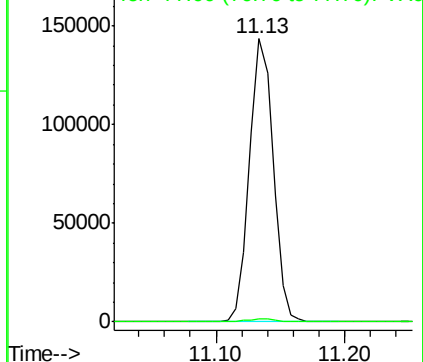
75 100

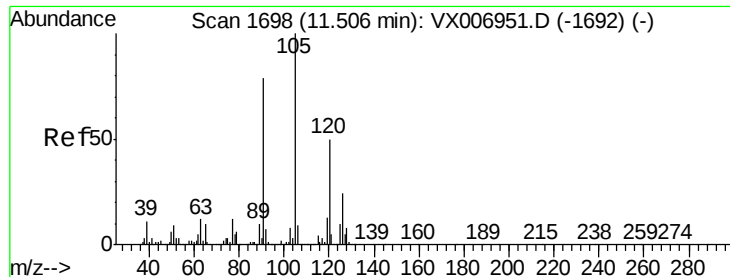
77 1.4 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.321 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

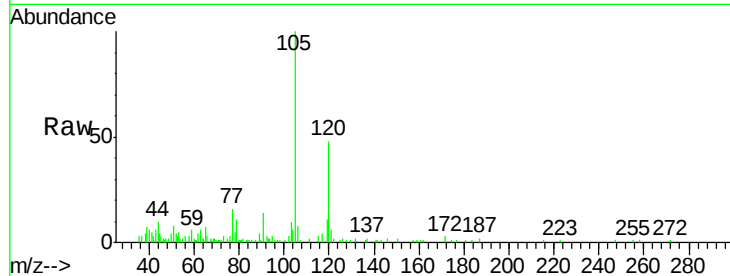
PB116701ZHE#01

Tot Ion:105 Resp: 7656

Ion Ratio Lower Upper

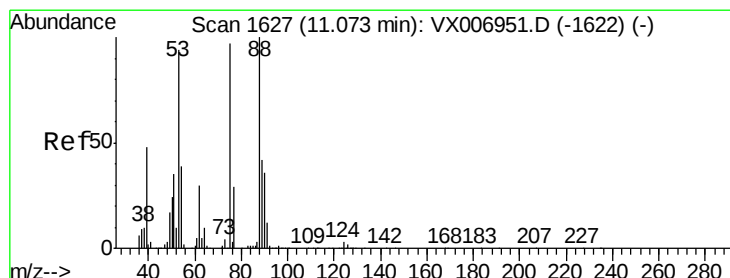
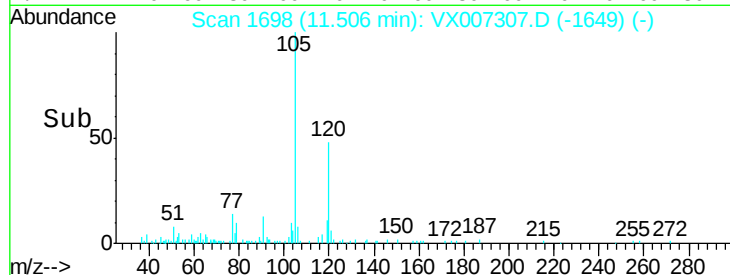
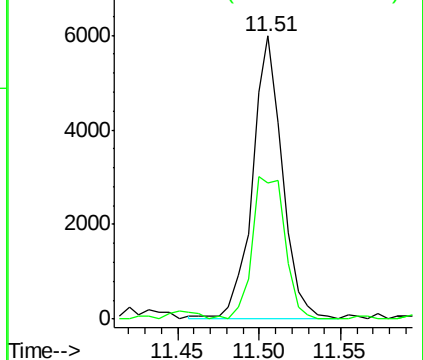
105 100

120 54.9 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.626 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

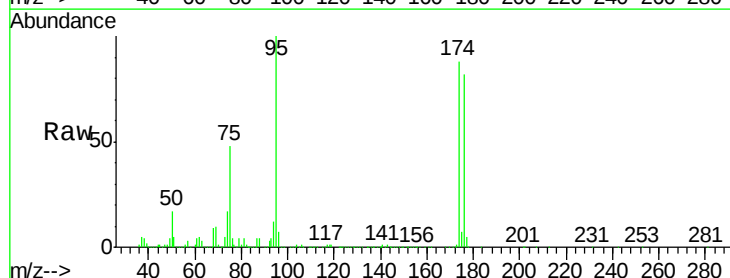
Tgt Ion: 75 Resp: 182110

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

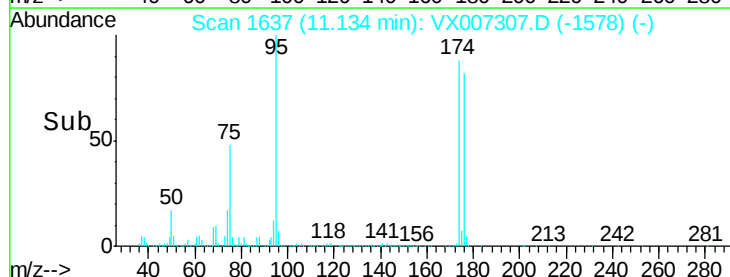
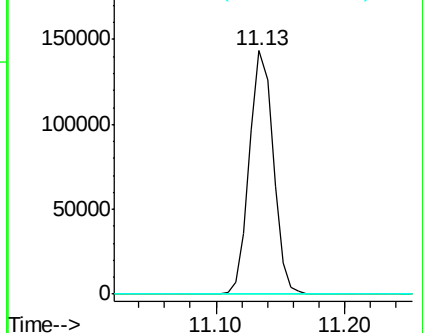
89 0.0 38.0 57.0#

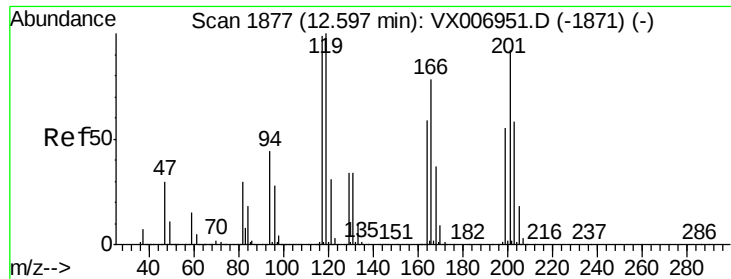


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.918 ug/l

RT: 12.64 min Scan# 1884

Delta R.T. 0.04 min

Lab File: VX007307.D

Acq: 30 Jan 2019 11:51

Instrument :

MSVOA_X

ClientSampleId :

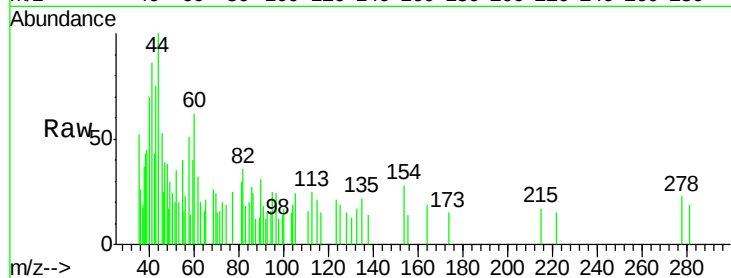
PB116701ZHE#01

Tot Ion:117 Resp: 42

Ion Ratio Lower Upper

117 100

201 104.8 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

