

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011222.D
 Acq On : 31 Jul 2019 02:38
 Operator : JC/SP
 Sample : PB121803ZHE#02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121803ZHE#02

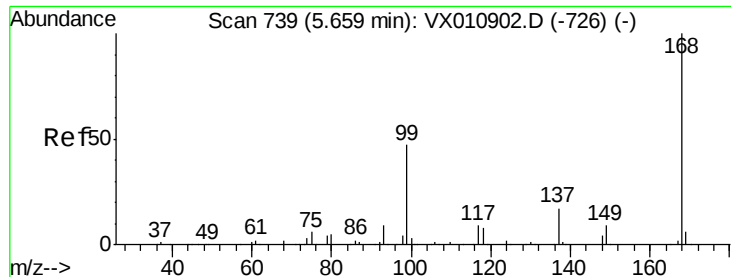
Quant Time: Jul 31 08:47:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	230652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	337211	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	304908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	139982	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	113797	46.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.76%	
35) Dibromofluoromethane	5.50	113	97970	45.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.54%	
50) Toluene-d8	8.71	98	396297	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
62) 4-Bromofluorobenzene	11.13	95	132052	44.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	57	0.569	ug/l #	1
5) Bromomethane	1.64	94	270	0.221	ug/l #	67
11) Tert butyl alcohol	3.04	59	222	0.388	ug/l #	45
13) Acrolein	2.29	56	133	0.403	ug/l	96
16) Acetone	2.45	43	4726	4.264	ug/l	90
18) Methyl Acetate	2.78	43	1618	0.641	ug/l #	85
20) Methylene Chloride	2.86	84	6894	2.935	ug/l	92
25) 2-Butanone	4.68	43	849	0.534	ug/l #	77
31) Cyclohexane	5.66	56	4440	1.333	ug/l #	12
36) 1,1-Dichloropropene	5.66	75	15911	5.744	ug/l #	48
38) Carbon Tetrachloride	5.67	117	21375	7.406	ug/l #	17
43) Isopropyl Acetate	6.45	43	11413	2.447	ug/l	98
48) Methyl methacrylate	7.67	41	5264	2.317	ug/l #	10
49) 1,4-Dioxane	7.87	88	115	1.810	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	58759	19.436	ug/l #	48
54) cis-1,3-Dichloropropene	8.61	75	29253	8.901	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	7167	1.969	ug/l #	43
59) 2-Hexanone	9.54	43	90845	38.743	ug/l #	51
68) m/p-Xylenes	10.36	106	1447	0.354	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	66626	26.376	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	1653	0.209	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	66626	65.485	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

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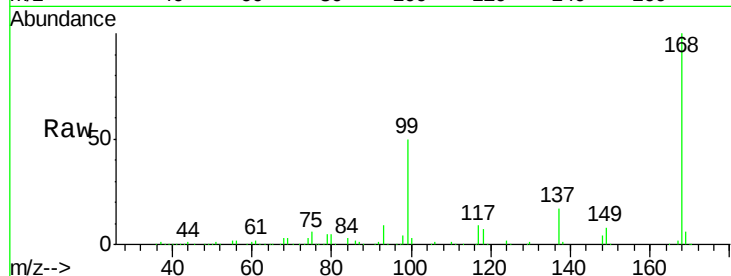
PB121803ZHE#02

Tgt Ion:168 Resp: 230652

Ion Ratio Lower Upper

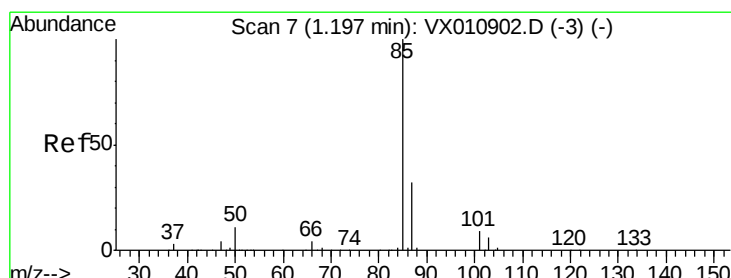
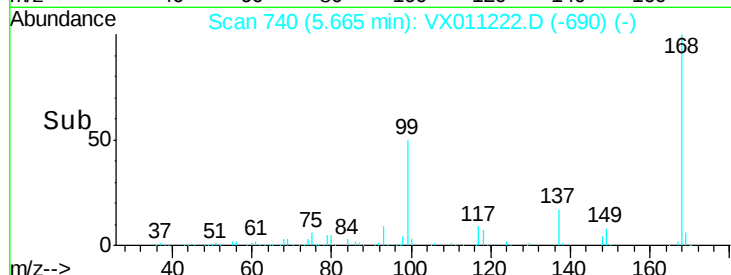
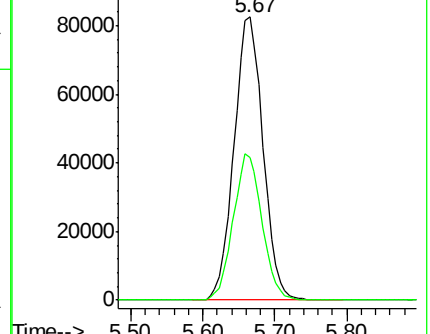
168 100

99 50.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.569 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011222.D

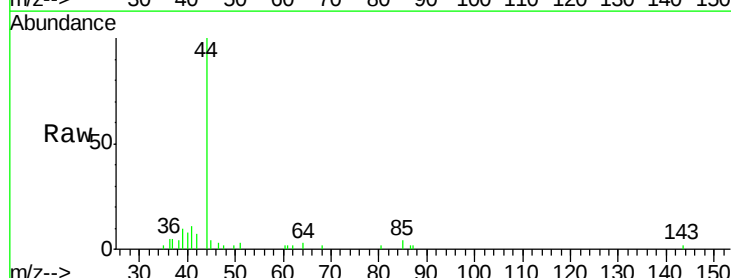
Acq: 31 Jul 2019 02:38

Tgt Ion: 85 Resp: 57

Ion Ratio Lower Upper

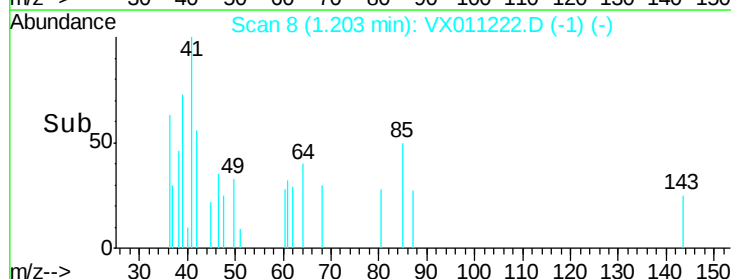
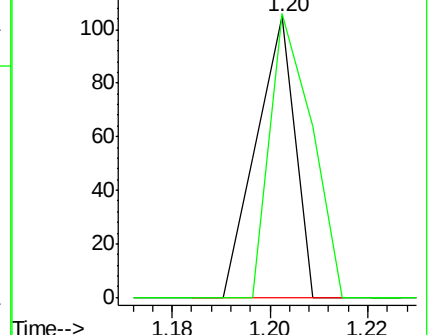
85 100

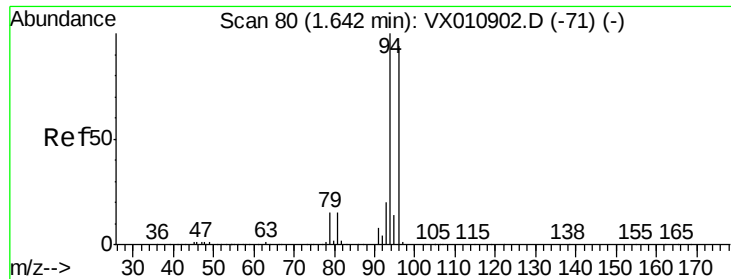
87 101.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: 0.221 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

Instrument :

MSVOA_X

ClientSampleId :

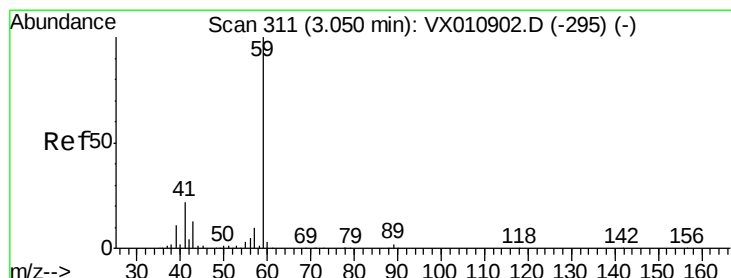
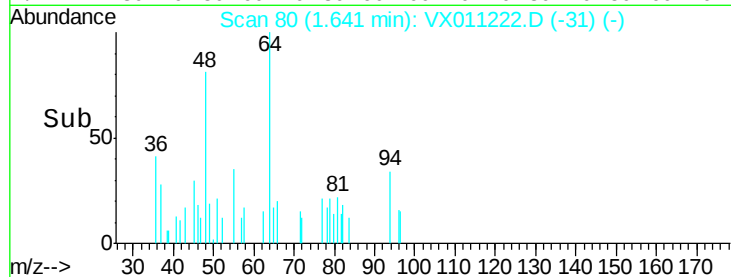
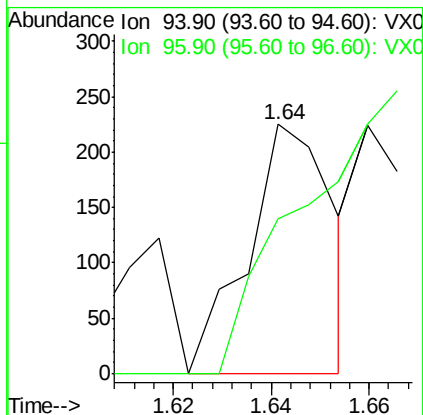
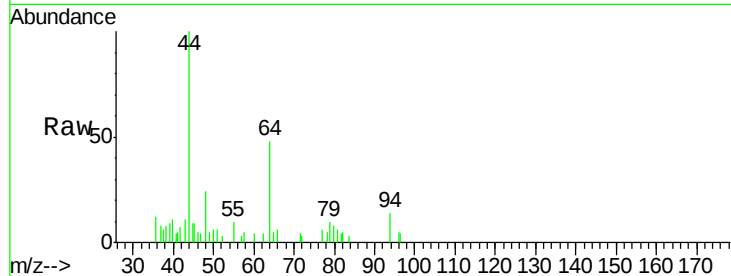
PB121803ZHE#02

Tgt Ion: 94 Resp: 270

Ion Ratio Lower Upper

94 100

96 62.2 75.6 113.4#



#11

Tert butyl alcohol

Concen: 0.388 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX011222.D

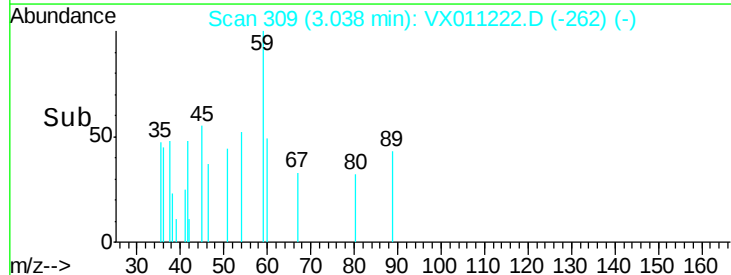
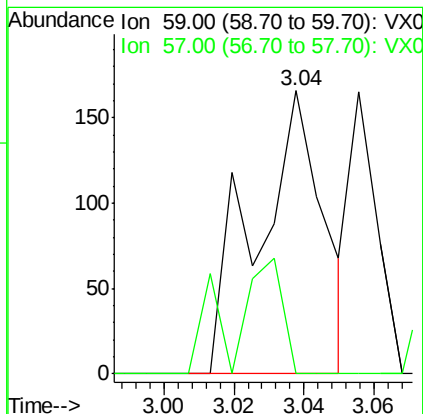
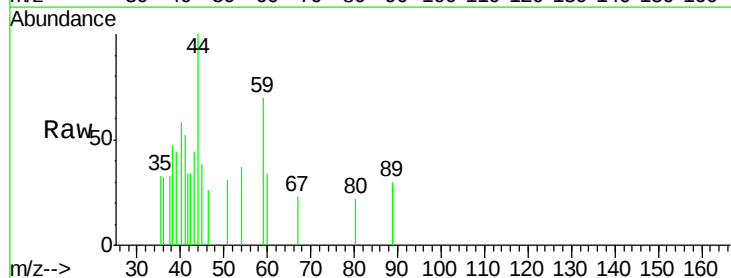
Acq: 31 Jul 2019 02:38

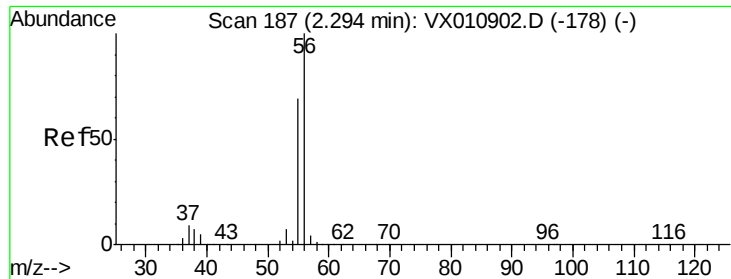
Tgt Ion: 59 Resp: 222

Ion Ratio Lower Upper

59 100

57 30.2 7.9 11.9#





#13

Acrolein

Concen: 0.403 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

Instrument :

MSVOA_X

ClientSampleId :

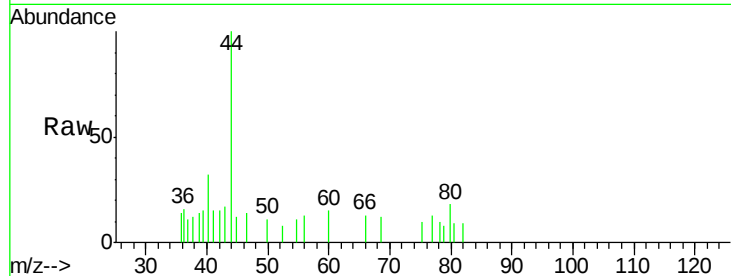
PB121803ZHE#02

Tgt Ion: 56 Resp: 133

Ion Ratio Lower Upper

56 100

55 66.9 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

100

50

0

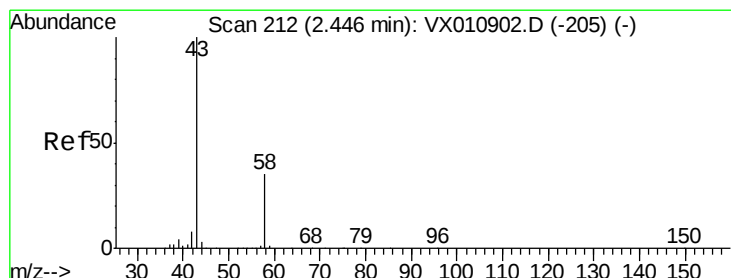
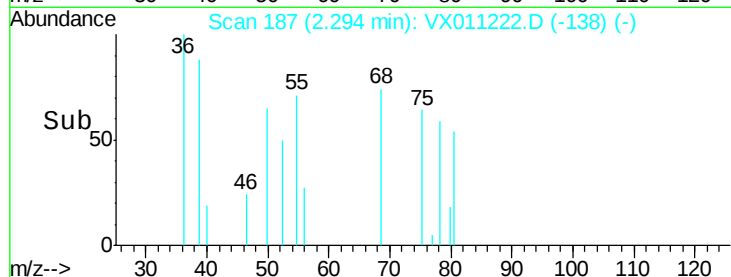
2.26

2.28

2.30

2.32

Time-->



#16

Acetone

Concen: 4.264 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011222.D

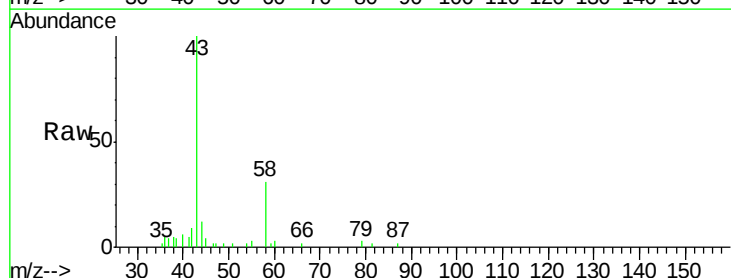
Acq: 31 Jul 2019 02:38

Tgt Ion: 43 Resp: 4726

Ion Ratio Lower Upper

43 100

58 28.7 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2000

1000

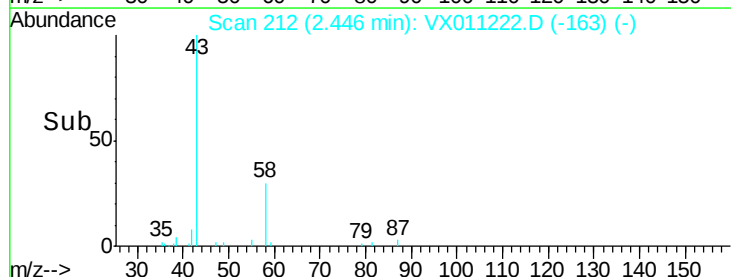
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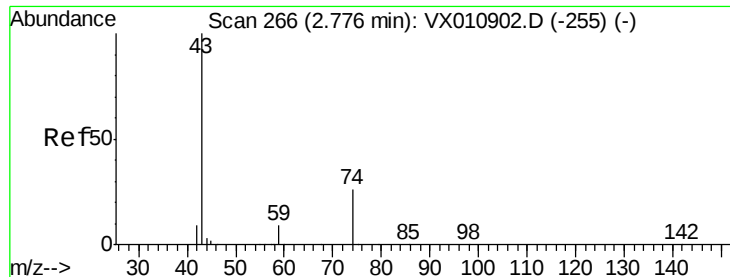
2.40

2.45

2.50

Time-->

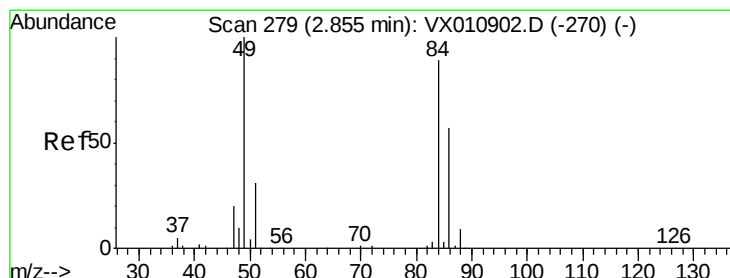
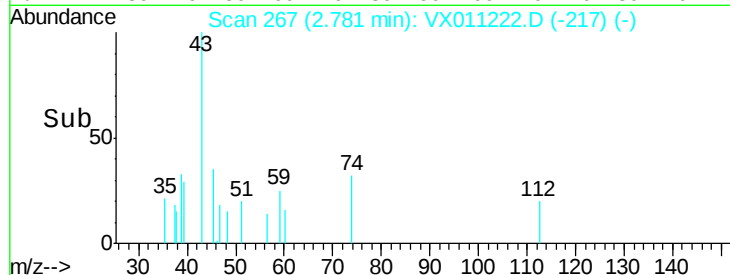
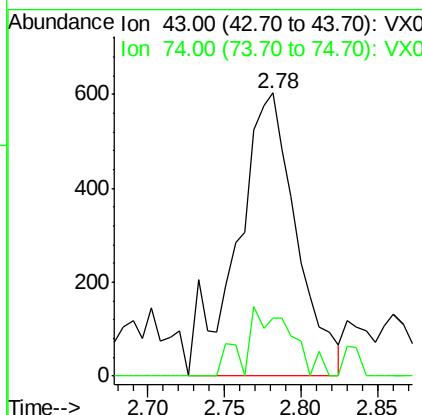
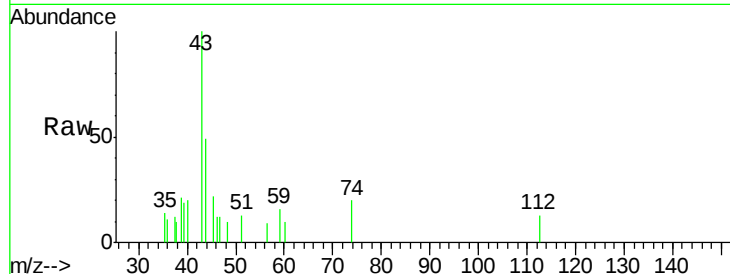




#18
Methyl Acetate
Concen: 0.641 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

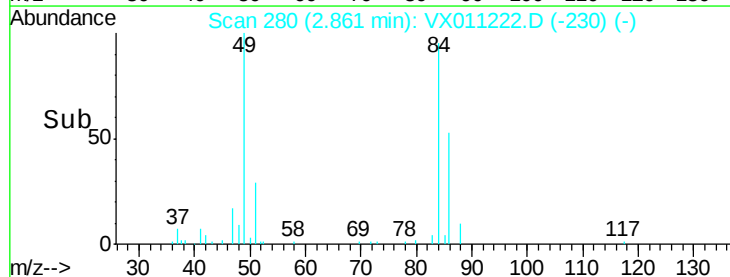
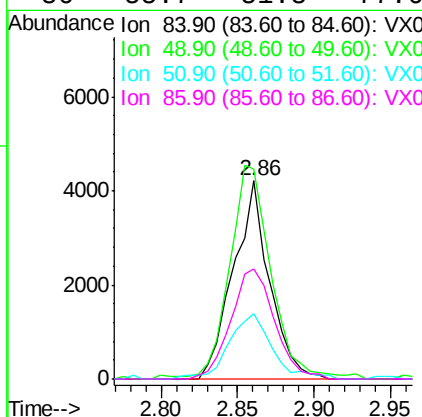
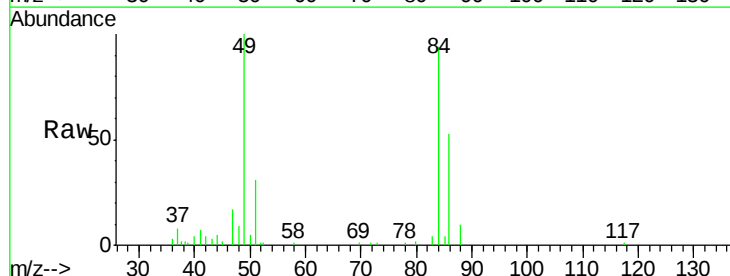
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#02

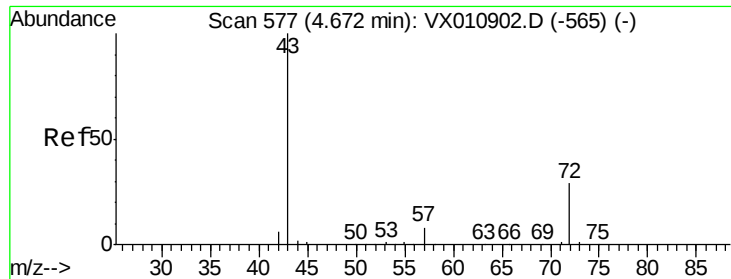
Tgt Ion: 43 Resp: 1618
Ion Ratio Lower Upper
43 100
74 19.2 21.5 32.3#



#20
Methylene Chloride
Concen: 2.935 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

Tgt Ion: 84 Resp: 6894
Ion Ratio Lower Upper
84 100
49 104.4 89.9 134.9
51 32.8 27.8 41.6
86 55.7 51.8 77.6





#25

2-Butanone

Concen: 0.534 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

Instrument :

MSVOA_X

ClientSampleId :

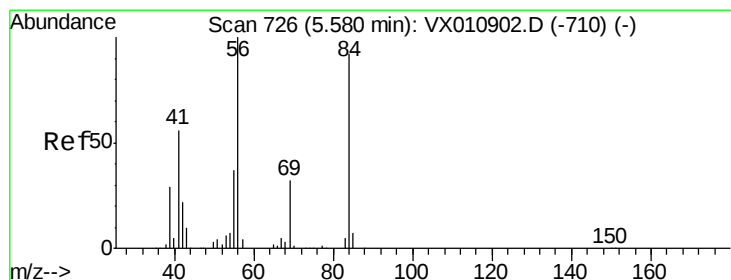
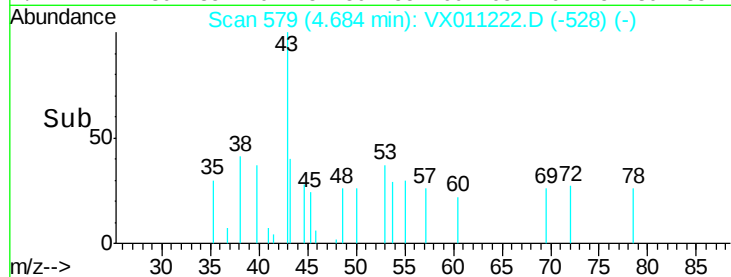
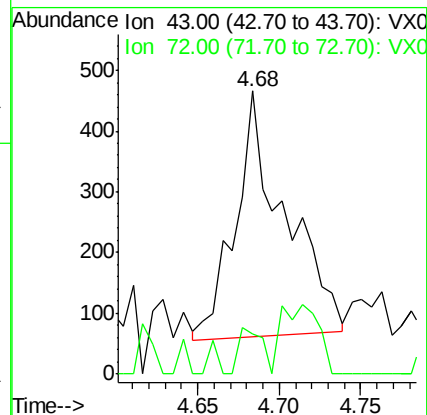
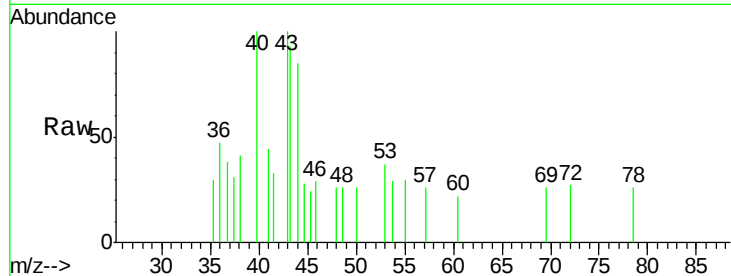
PB121803ZHE#02

Tgt Ion: 43 Resp: 849

Ion Ratio Lower Upper

43 100

72 16.7 23.0 34.6#



#31

Cyclohexane

Concen: 1.333 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

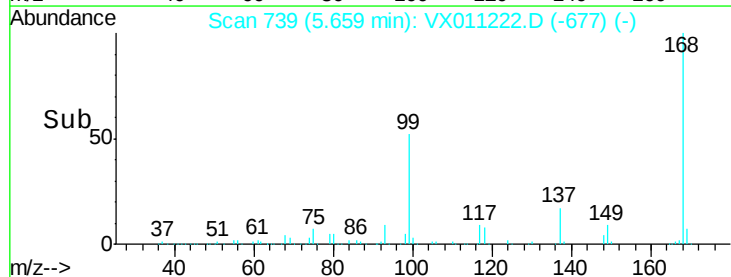
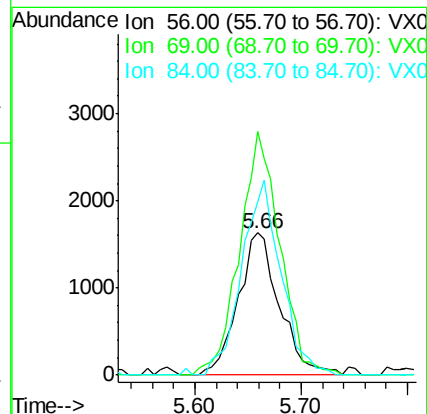
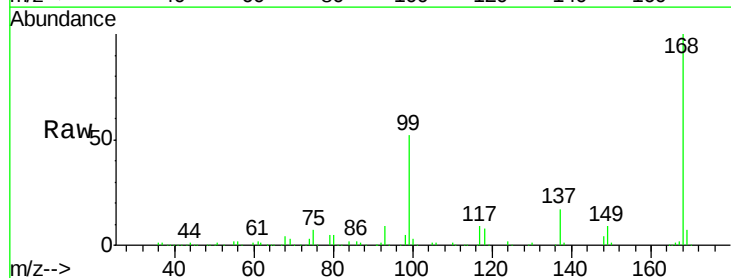
Tgt Ion: 56 Resp: 4440

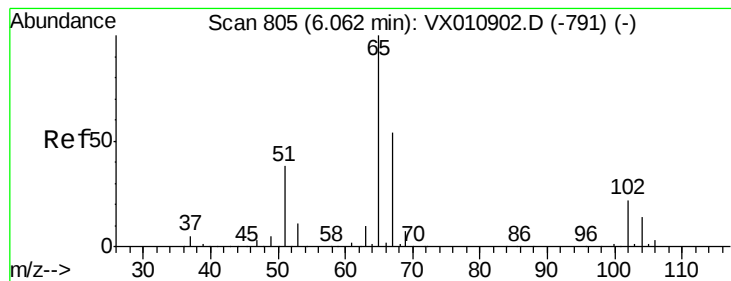
Ion Ratio Lower Upper

56 100

69 171.2 25.8 38.8#

84 122.1 73.8 110.6#





#33

1,2-Dichloroethane-d4

Concen: 46.376 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

Instrument :

MSVOA_X

ClientSampleId :

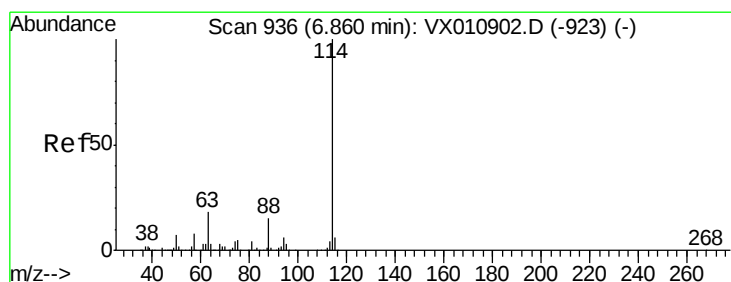
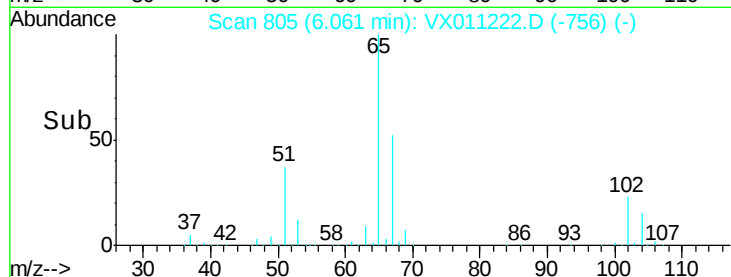
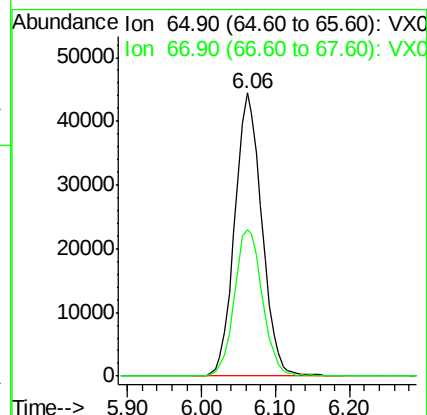
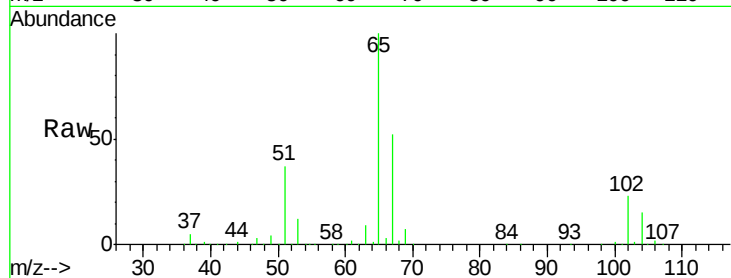
PB121803ZHE#02

Tgt Ion: 65 Resp: 113797

Ion Ratio Lower Upper

65 100

67 53.4 0.0 107.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

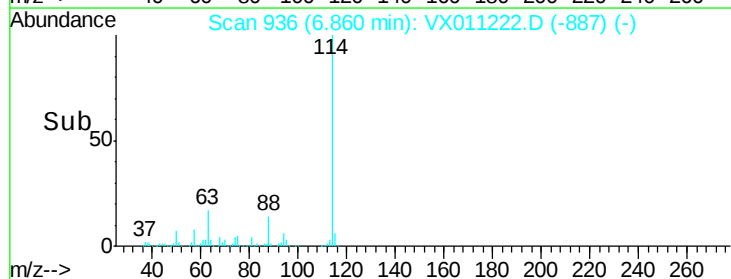
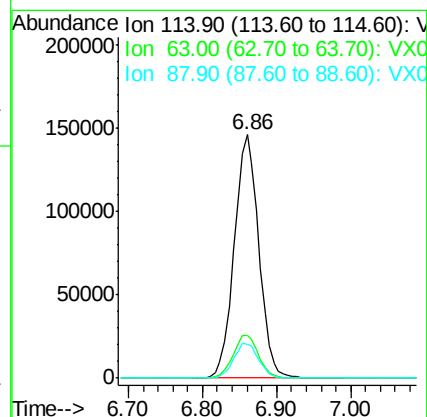
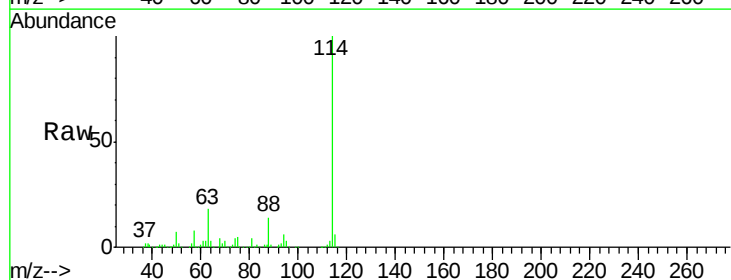
Tgt Ion: 114 Resp: 337211

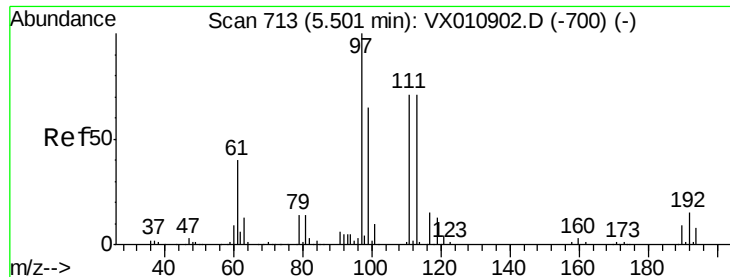
Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.6

88 14.1 0.0 29.8





#35

Dibromofluoromethane

Concen: 45.773 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#02

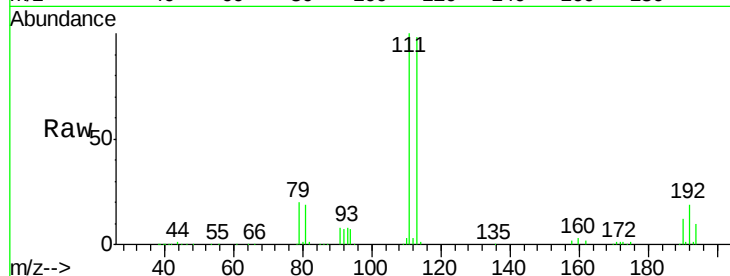
Tgt Ion:113 Resp: 97970

Ion Ratio Lower Upper

113 100

111 103.0 82.3 123.5

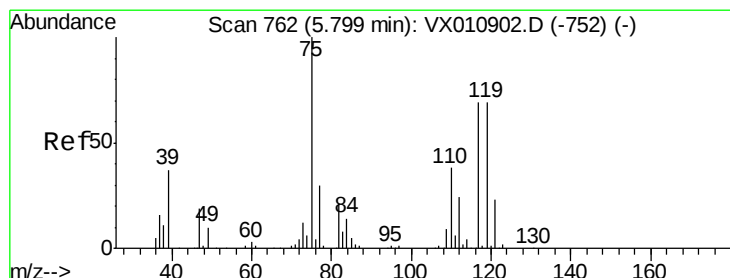
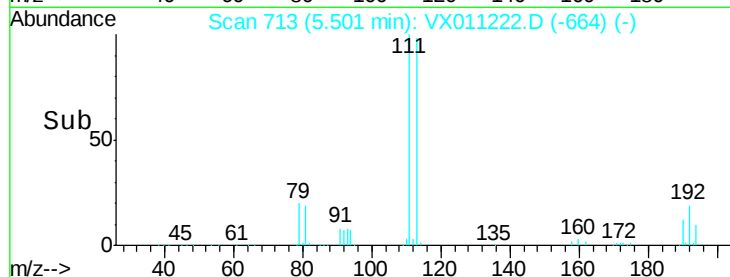
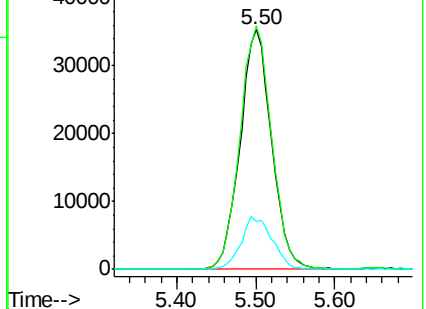
192 21.8 17.4 26.2



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: 5.744 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

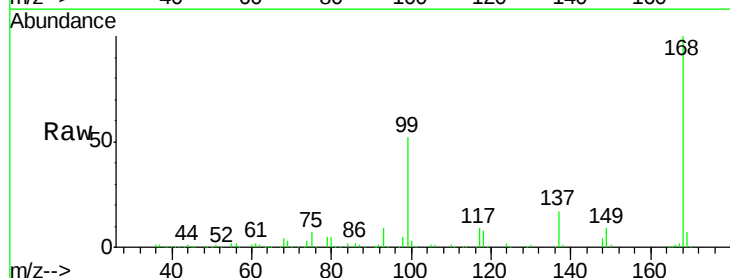
Tgt Ion: 75 Resp: 15911

Ion Ratio Lower Upper

75 100

110 10.2 19.9 59.7#

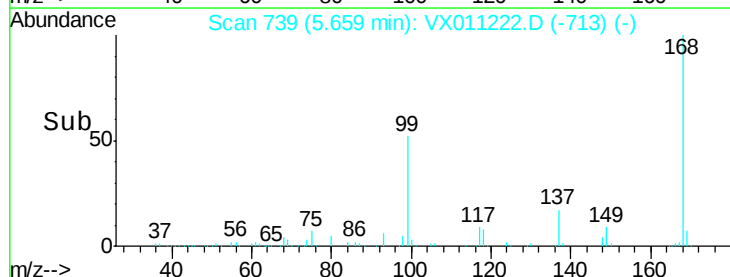
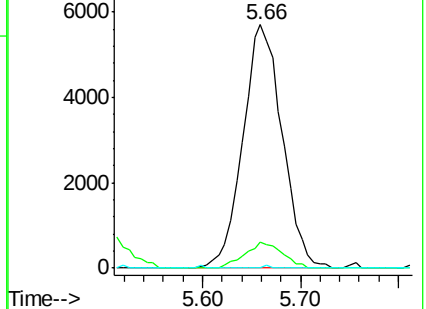
77 0.2 25.0 37.4#

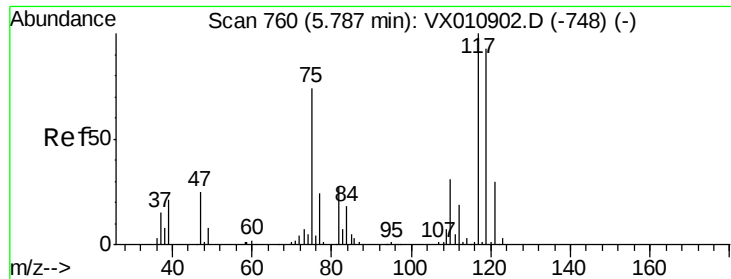


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

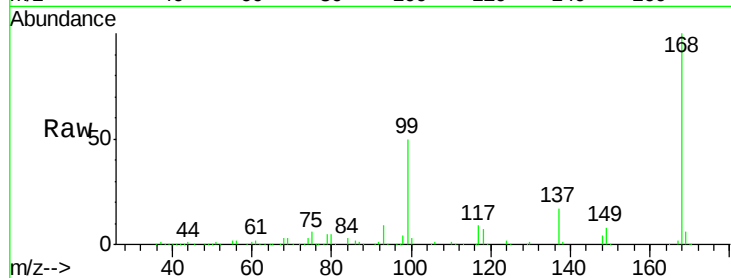




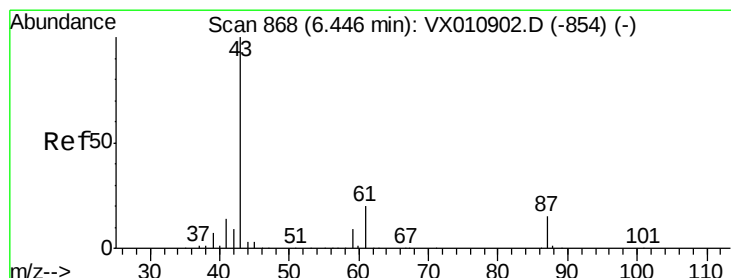
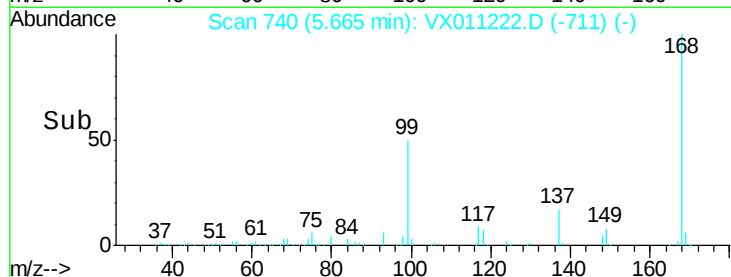
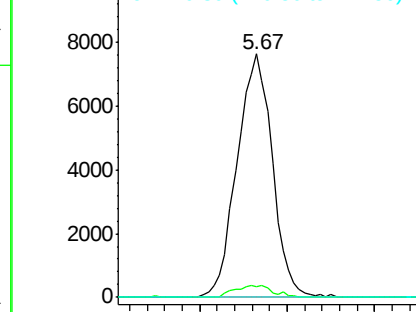
#38
Carbon Tetrachloride
Concen: 7.406 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#02

Tgt Ion:117 Resp: 21375
Ion Ratio Lower Upper
117 100
119 4.5 74.2 111.2#
121 0.0 24.2 36.2#

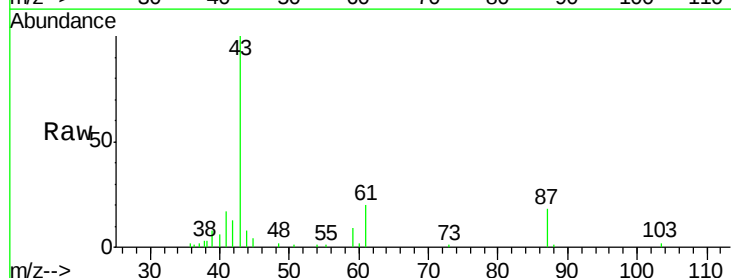


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

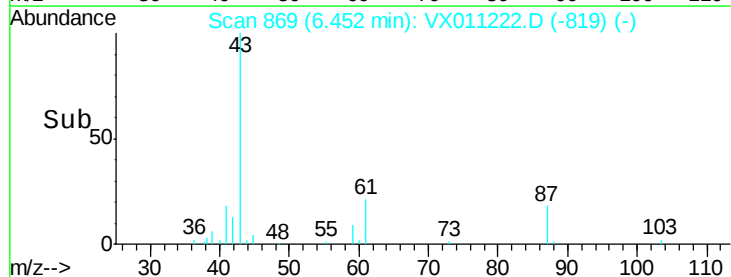
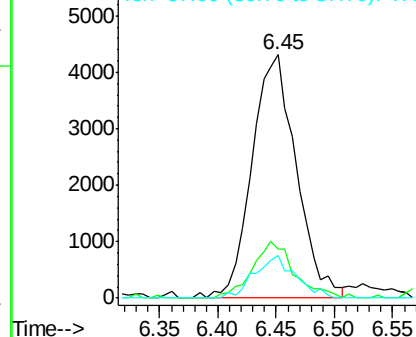


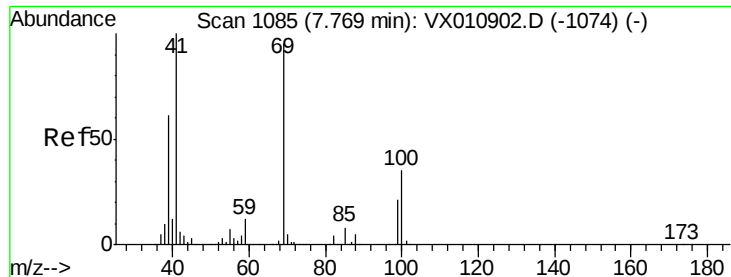
#43
Isopropyl Acetate
Concen: 2.447 ug/l
RT: 6.45 min Scan# 869
Delta R.T. 0.01 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

Tgt Ion: 43 Resp: 11413
Ion Ratio Lower Upper
43 100
61 22.2 17.1 25.7
87 16.1 12.0 18.0



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: 2.317 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.10 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#02

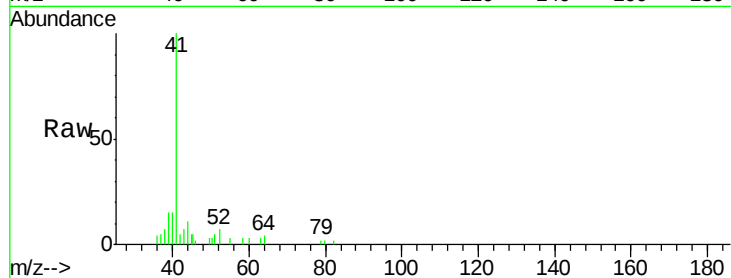
Tgt Ion: 41 Resp: 5264

Ion Ratio Lower Upper

41 100

69 0.0 74.4 111.6#

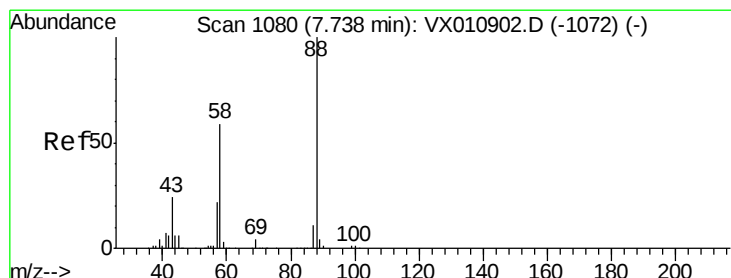
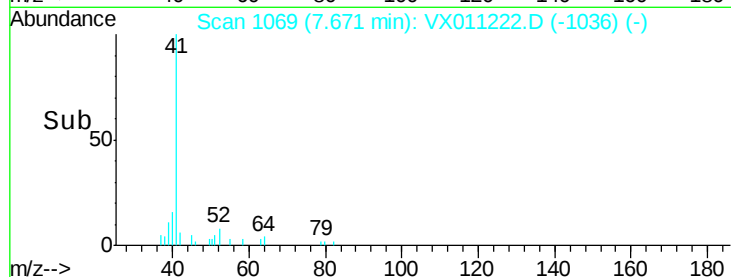
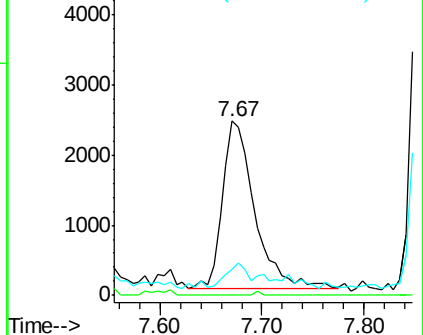
39 0.0 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 1.810 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.13 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

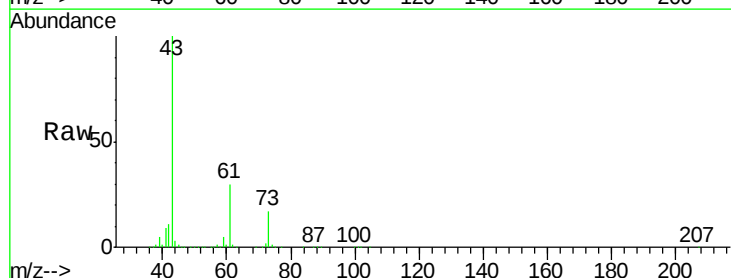
Tgt Ion: 88 Resp: 115

Ion Ratio Lower Upper

88 100

43 693457.4 22.9 34.3#

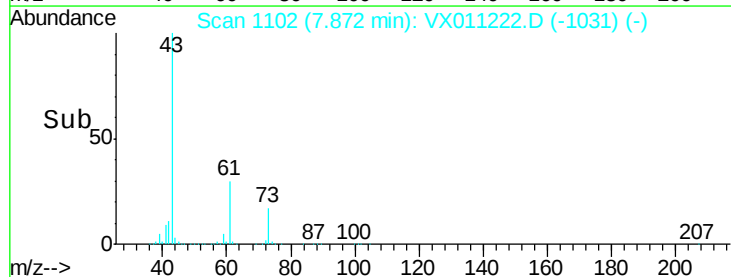
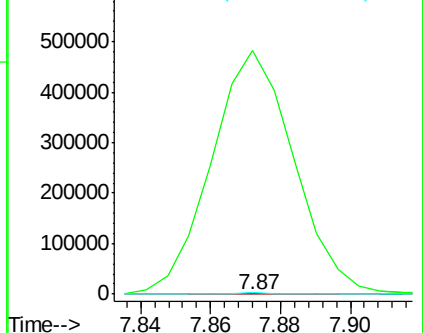
58 3664.3 49.8 74.8#

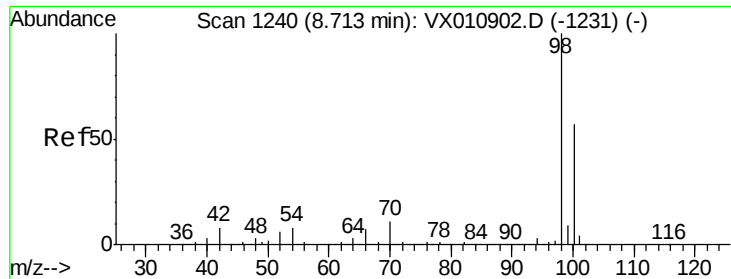


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

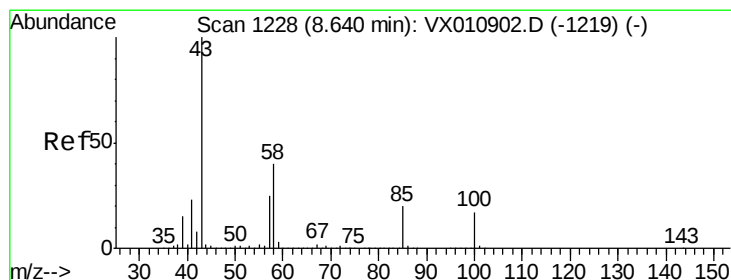
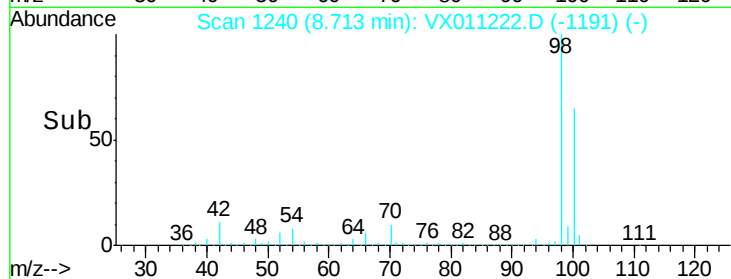
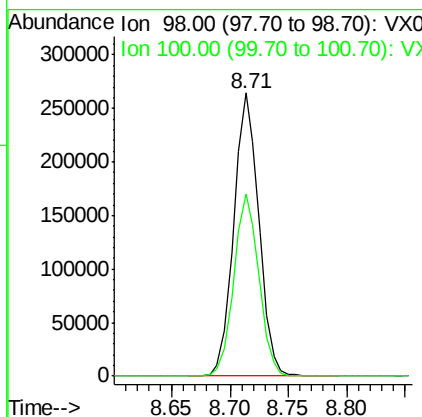
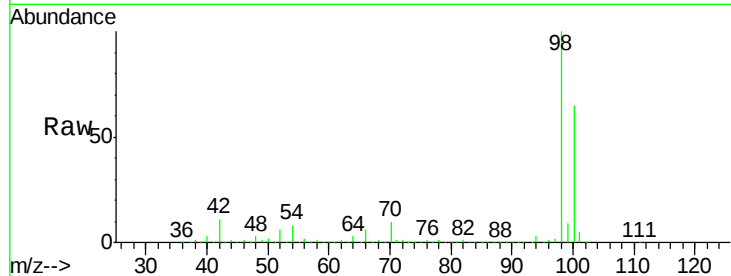




#50
Toluene-d8
Concen: 49.366 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

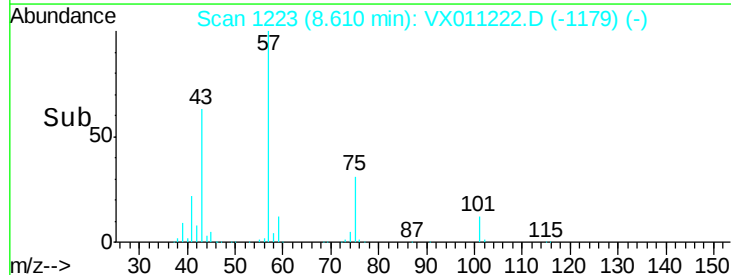
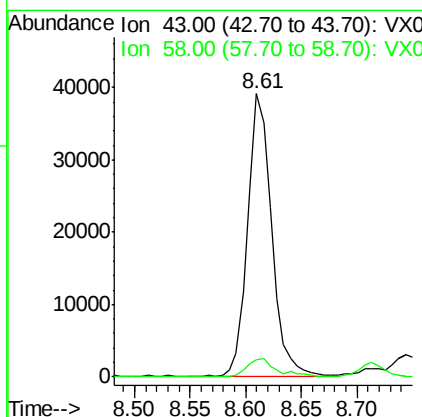
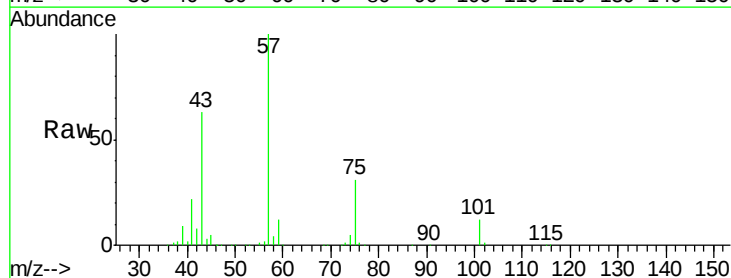
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#02

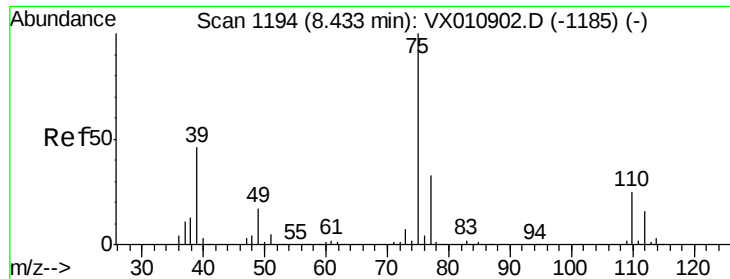
Tgt Ion: 98 Resp: 396297
Ion Ratio Lower Upper
98 100
100 64.2 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 19.436 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

Tgt Ion: 43 Resp: 58759
Ion Ratio Lower Upper
43 100
58 8.1 32.2 48.4#



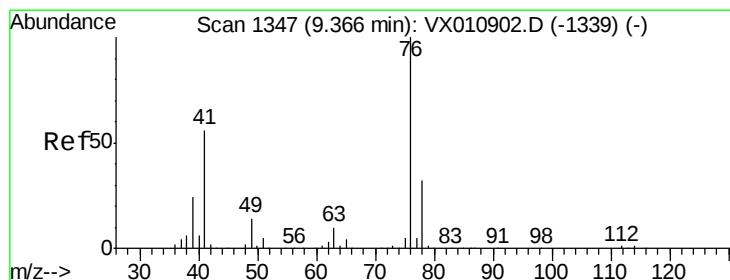
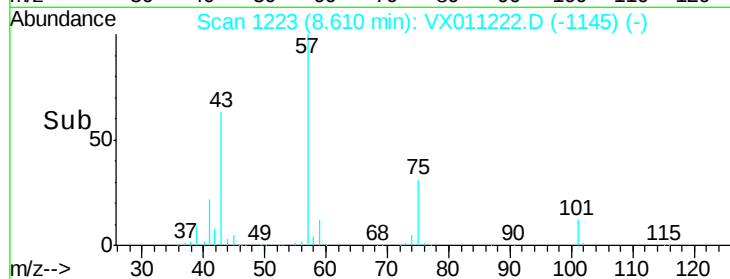
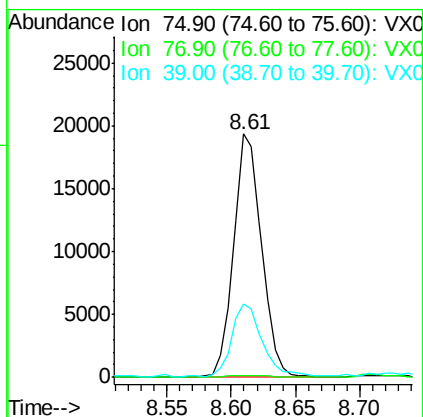
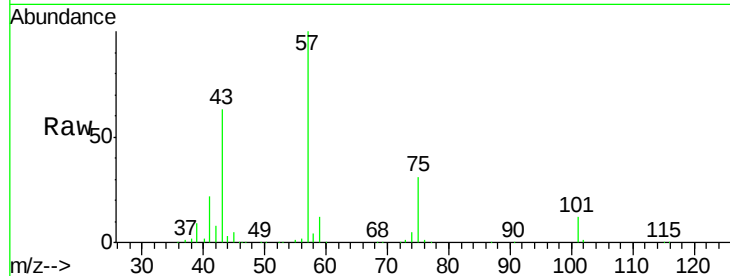


#54

cis-1,3-Dichloropropene
Concen: 8.901 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. 0.18 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#02

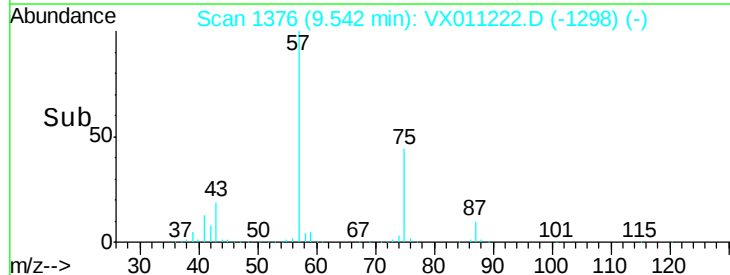
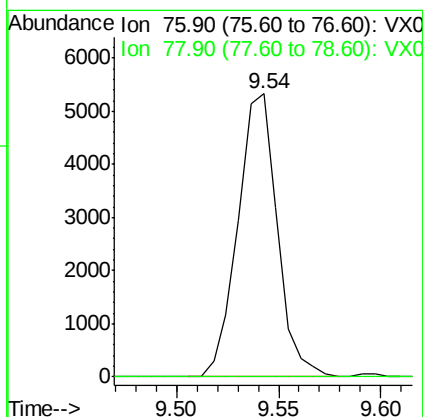
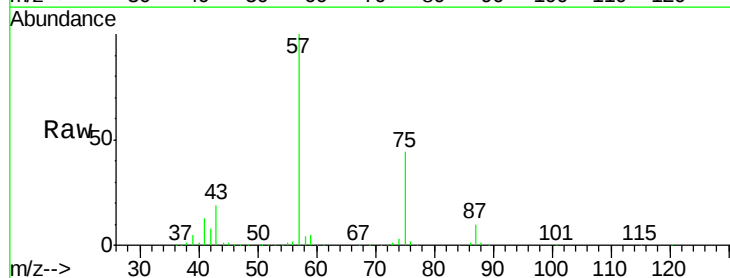
Tgt Ion: 75 Resp: 29253
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 29.3 36.6 54.8#

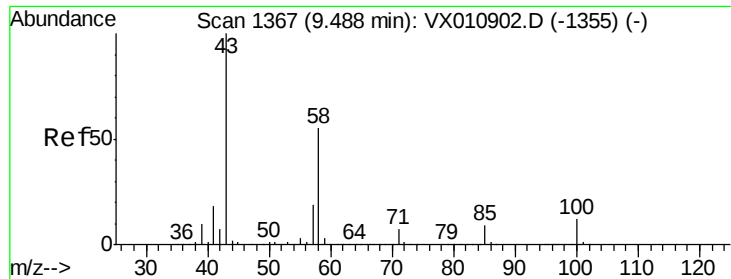


#57

1,3-Dichloropropane
Concen: 1.969 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.18 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

Tgt Ion: 76 Resp: 7167
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

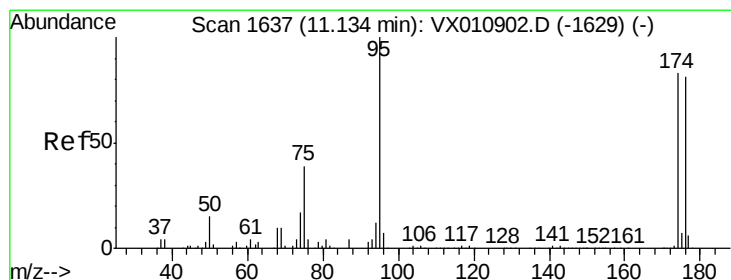
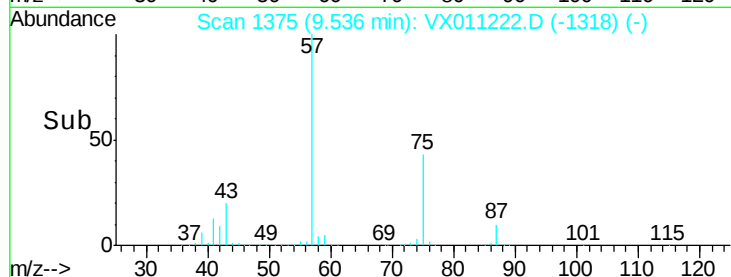
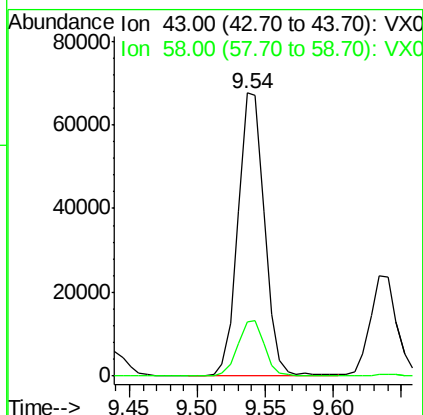
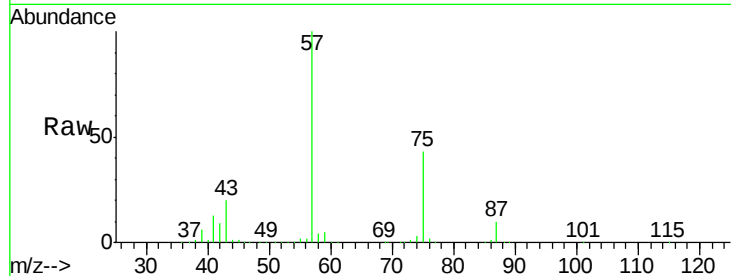




#59
2-Hexanone
Concen: 38.743 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

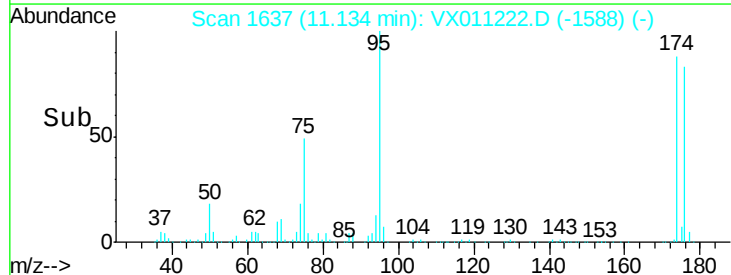
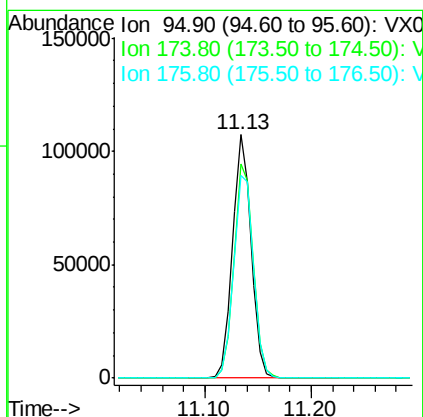
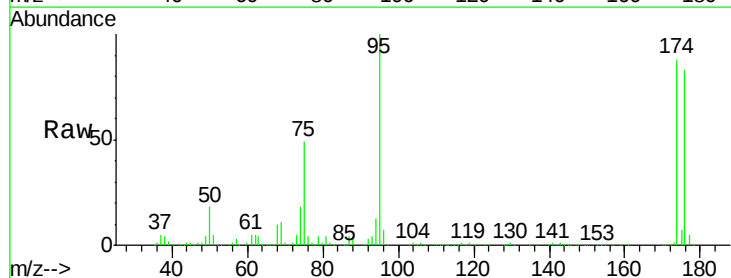
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#02

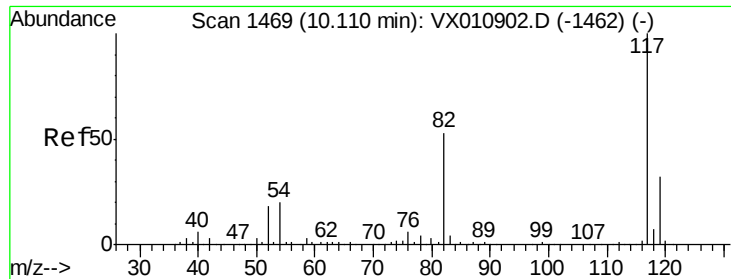
Tgt Ion: 43 Resp: 90845
Ion Ratio Lower Upper
43 100
58 20.1 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.752 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

Tgt Ion: 95 Resp: 132052
Ion Ratio Lower Upper
95 100
174 91.4 0.0 180.6
176 89.1 0.0 173.8

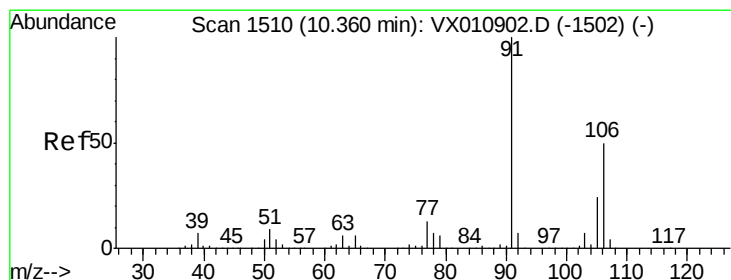
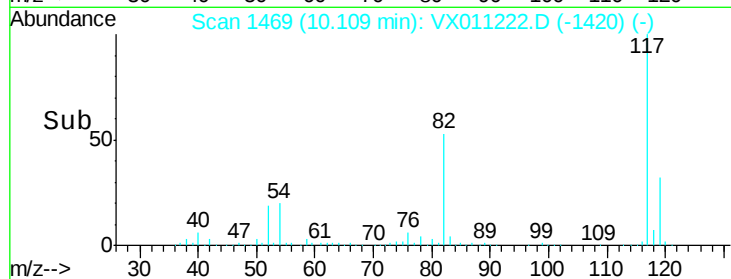
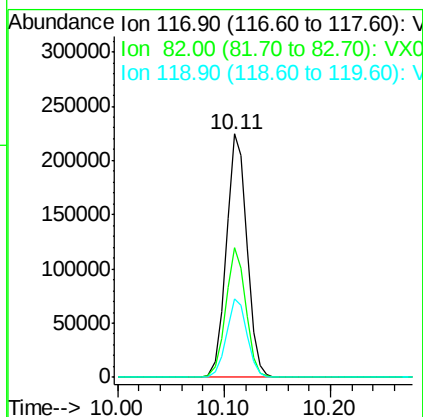
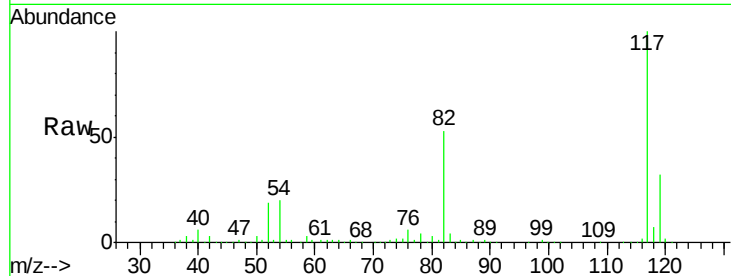




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

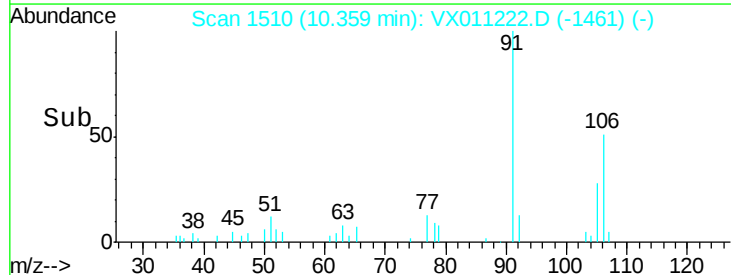
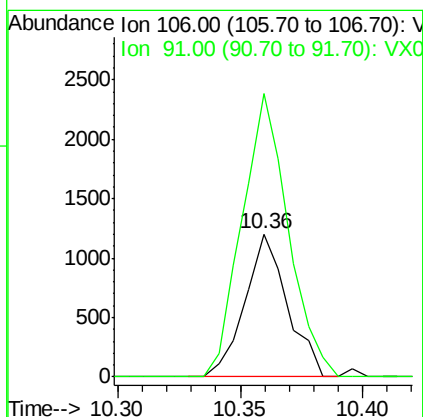
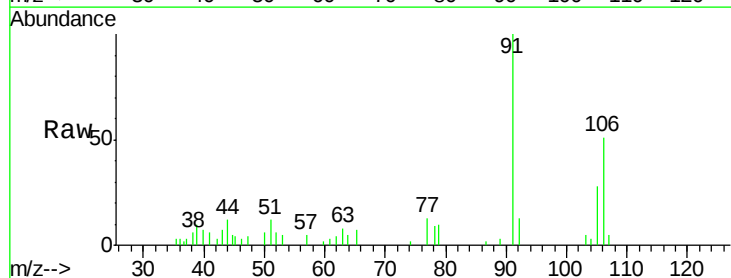
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#02

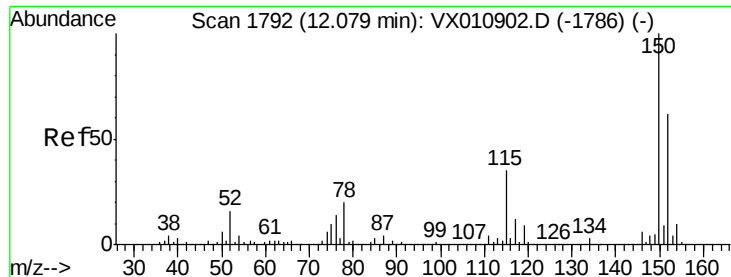
Tgt Ion:117 Resp: 304908
Ion Ratio Lower Upper
117 100
82 53.2 42.6 63.8
119 32.2 25.9 38.9



#68
m/p-Xylenes
Concen: 0.354 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX011222.D
Acq: 31 Jul 2019 02:38

Tgt Ion:106 Resp: 1447
Ion Ratio Lower Upper
106 100
91 215.8 160.1 240.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011222.D

Acq: 31 Jul 2019 02:38

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#02

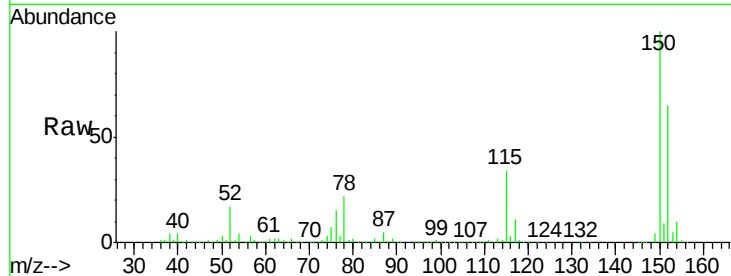
Tgt Ion:152 Resp: 139982

Ion Ratio Lower Upper

152 100

115 55.4 39.7 119.1

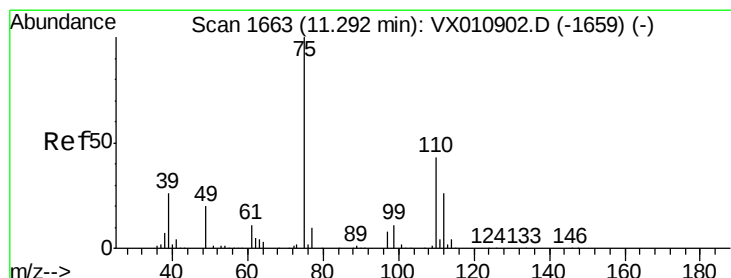
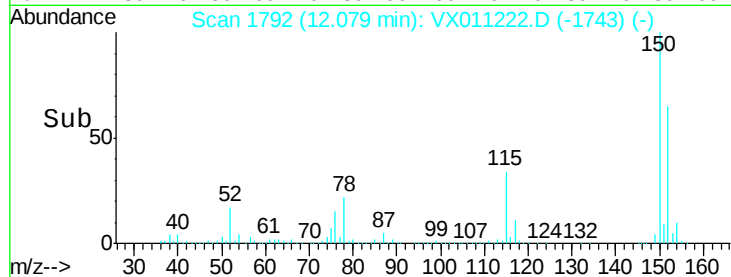
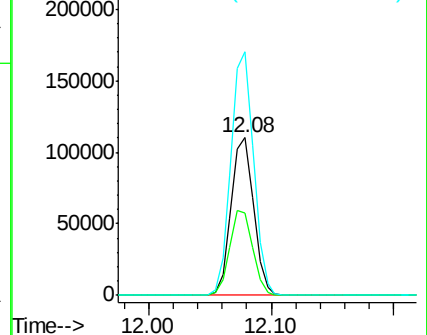
150 155.6 0.0 345.6



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



#76

1,2,3-Trichloropropane

Concen: 26.376 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011222.D

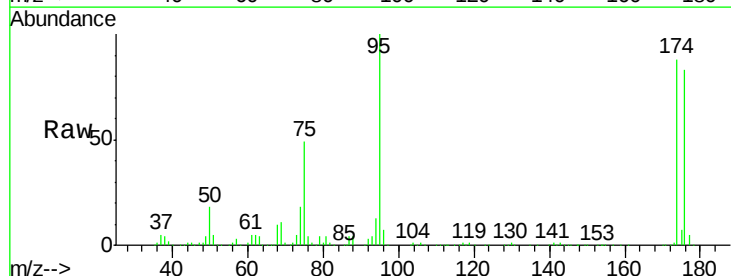
Acq: 31 Jul 2019 02:38

Tgt Ion: 75 Resp: 66626

Ion Ratio Lower Upper

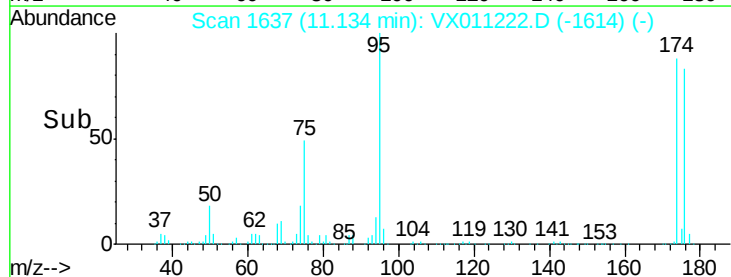
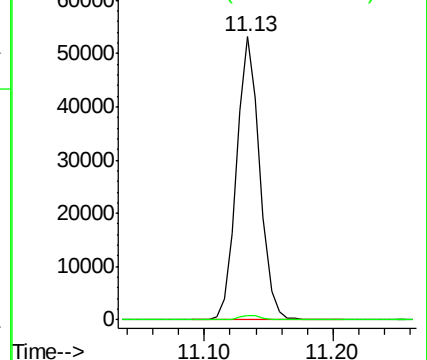
75 100

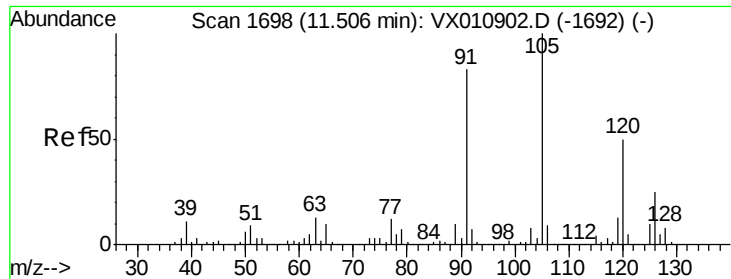
77 1.6 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

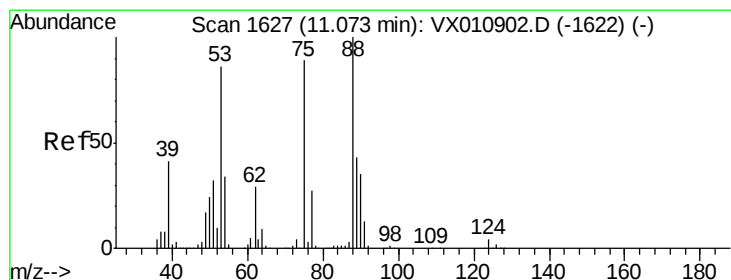
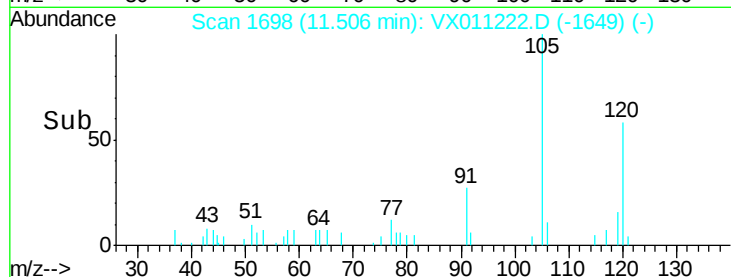
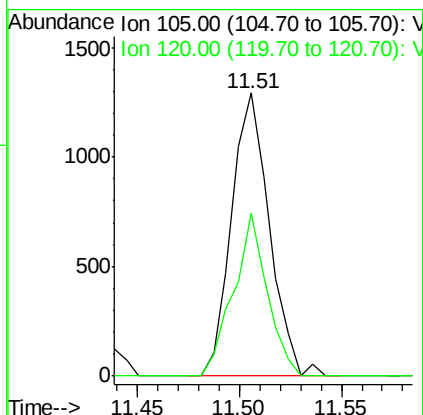
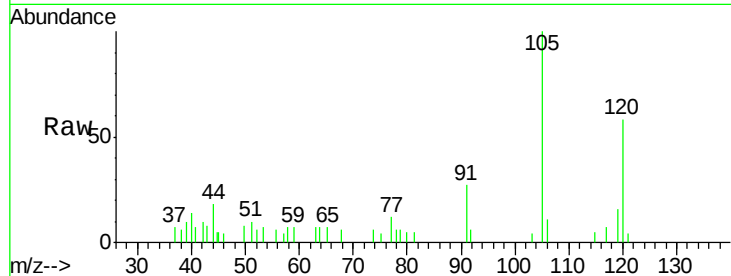




#80
 1,3,5-Trimethylbenzene
 Concen: 0.209 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX011222.D
 Acq: 31 Jul 2019 02:38

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121803ZHE#02

Tgt Ion: 105 Resp: 1653
 Ion Ratio Lower Upper
 105 100
 120 51.7 24.6 73.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.485 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011222.D
 Acq: 31 Jul 2019 02:38

Tgt Ion: 75 Resp: 66626
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.7 115.1#
 89 0.1 38.5 57.7#

