

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX073019\
 Data File : VX011224.D
 Acq On : 31 Jul 2019 03:24
 Operator : JC/SP
 Sample : PB121803ZHE#04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121803ZHE#04

Quant Time: Jul 31 08:48:26 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	226082	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	329319	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	302287	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	138468	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	113657	47.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.52%	
35) Dibromofluoromethane	5.50	113	97578	46.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.36%	
50) Toluene-d8	8.71	98	389770	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	11.13	95	131199	45.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.06%	

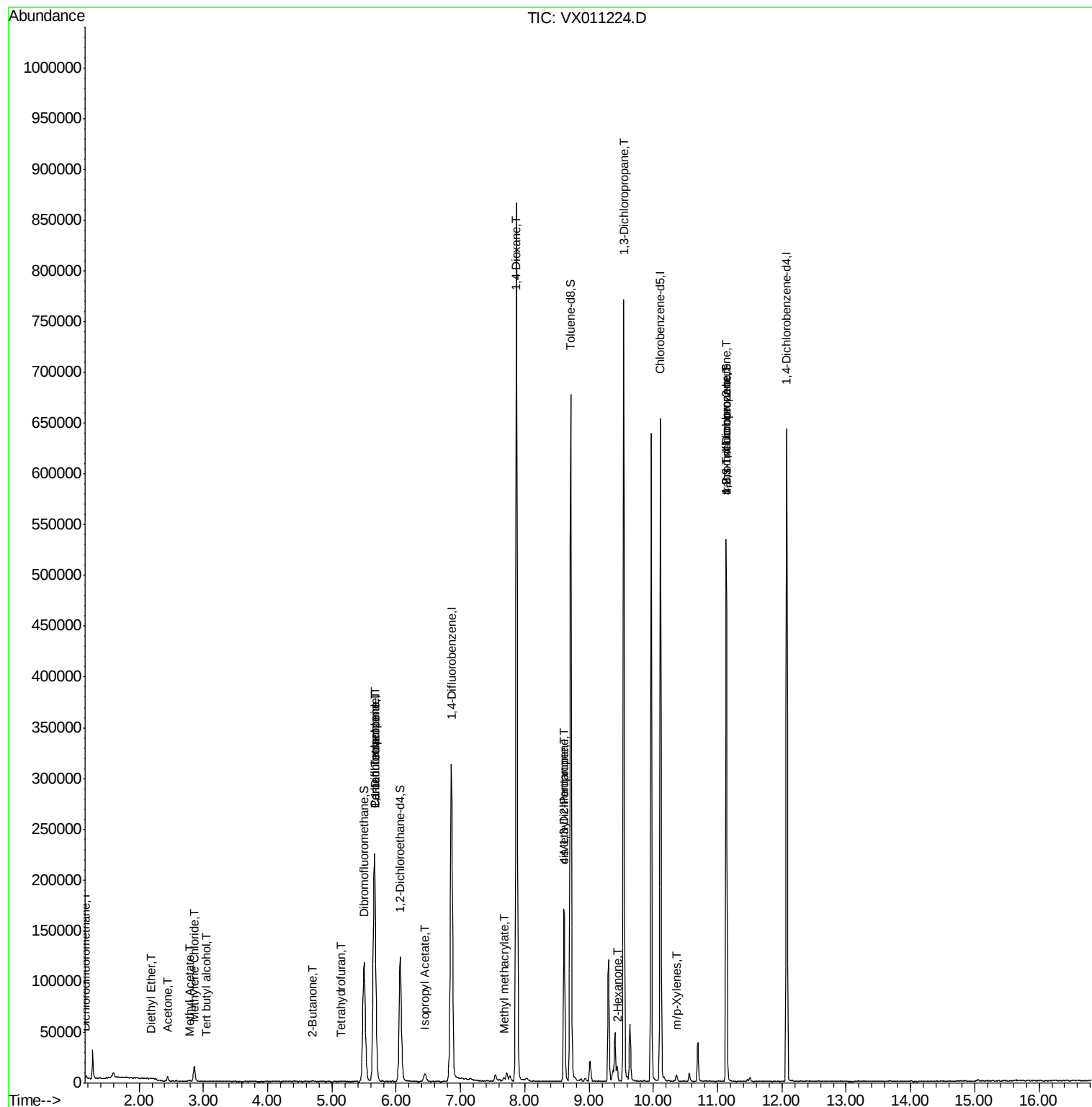
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	19	0.554	ug/l #	1
8) Diethyl Ether	2.19	74	364	0.294	ug/l #	46
11) Tert butyl alcohol	3.04	59	169	0.302	ug/l #	32
16) Acetone	2.45	43	5206	4.792	ug/l	100
18) Methyl Acetate	2.78	43	1480	0.598	ug/l	97
20) Methylene Chloride	2.85	84	7047	3.061	ug/l	98
25) 2-Butanone	4.68	43	532	0.341	ug/l	95
29) Tetrahydrofuran	5.13	42	216	0.219	ug/l #	49
36) 1,1-Dichloropropene	5.67	75	15054	5.565	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20828	7.389	ug/l #	18
43) Isopropyl Acetate	6.44	43	11675	2.563	ug/l	99
48) Methyl methacrylate	7.68	41	4942	2.227	ug/l #	10
49) 1,4-Dioxane	7.87	88	217	3.496	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	55605	18.834	ug/l #	48
54) cis-1,3-Dichloropropene	8.61	75	28098	8.754	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	7226	2.032	ug/l #	44
59) 2-Hexanone	9.44	43	8077	3.527	ug/l #	23
68) m/p-Xylenes	10.35	106	1453	0.358	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	67124	26.863	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	67124	66.622	ug/l #	11

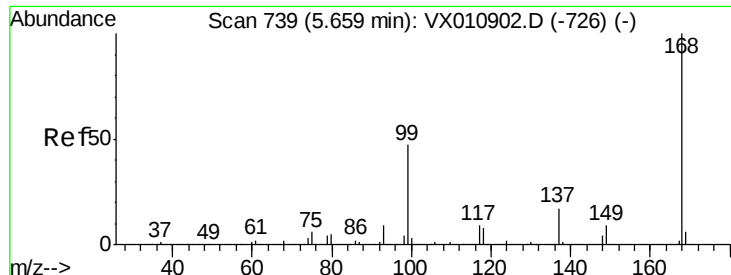
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

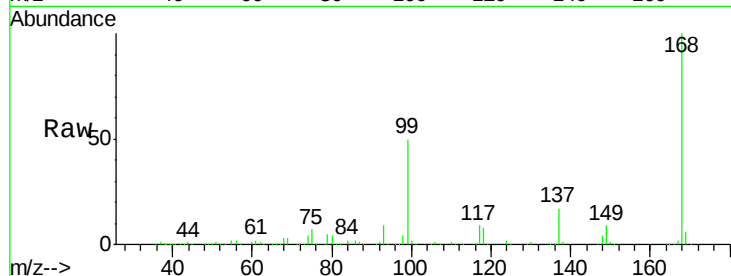
PB121803ZHE#04

Tgt Ion:168 Resp: 226082

Ion Ratio Lower Upper

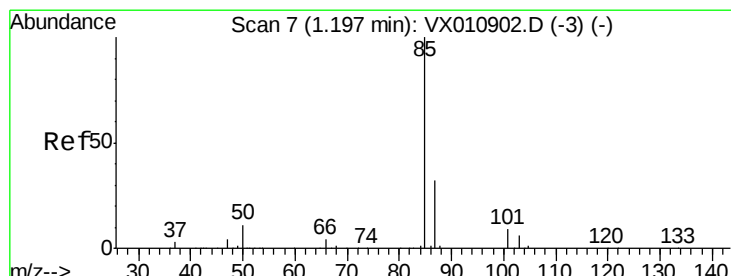
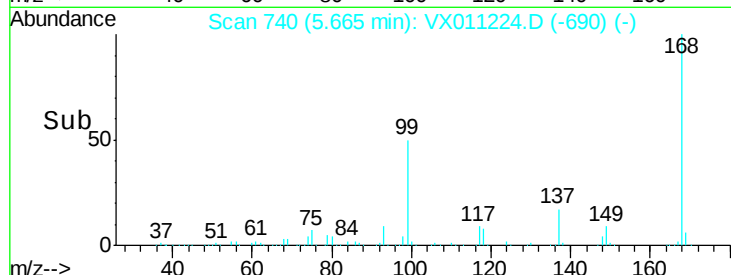
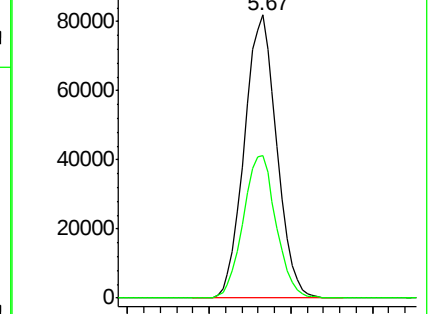
168 100

99 50.5 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: 0.554 ug/l

RT: 1.18 min Scan# 4

Delta R.T. -0.02 min

Lab File: VX011224.D

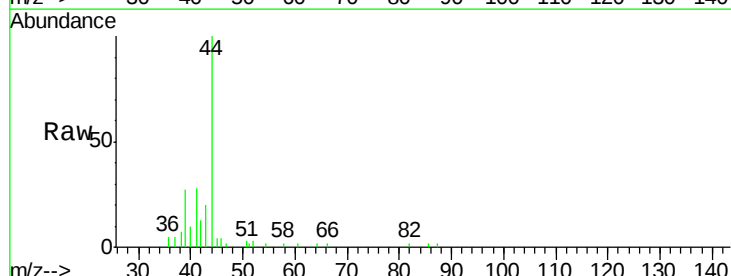
Acq: 31 Jul 2019 03:24

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

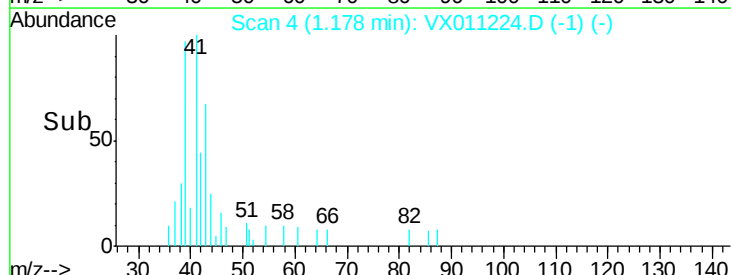
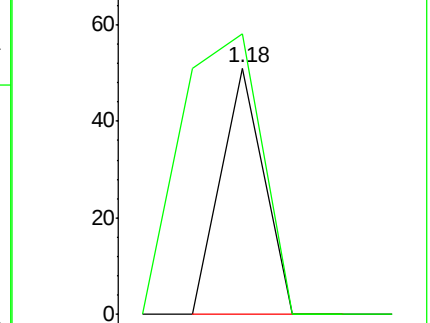
85 100

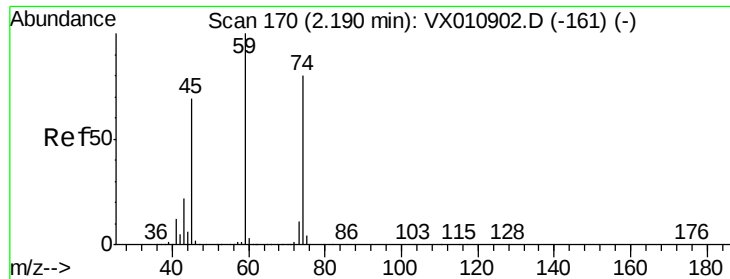
87 113.7 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#8

Diethyl Ether

Concen: 0.294 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

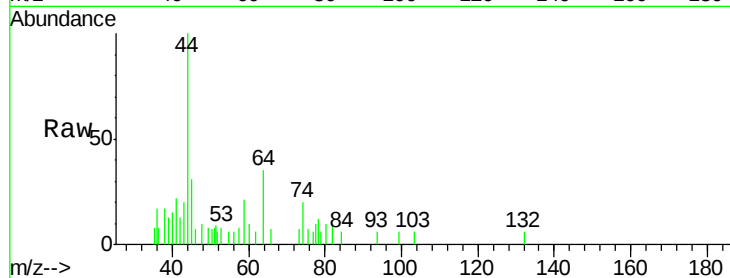
PB121803ZHE#04

Tgt Ion: 74 Resp: 364

Ion Ratio Lower Upper

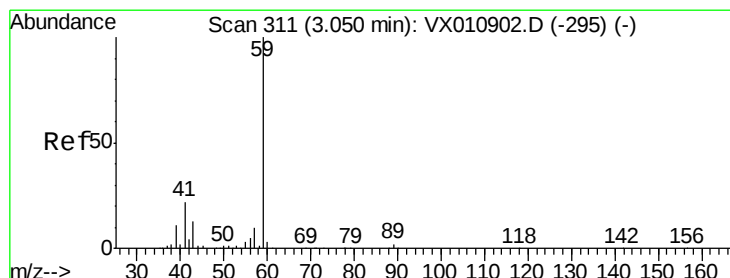
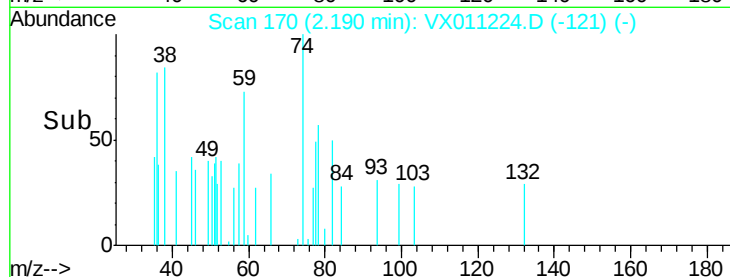
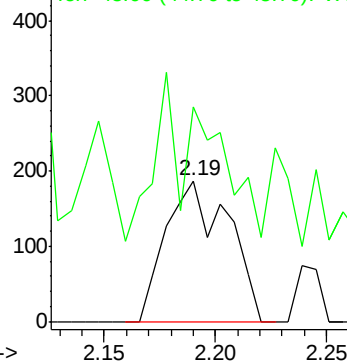
74 100

45 40.1 45.5 136.5#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.302 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX011224.D

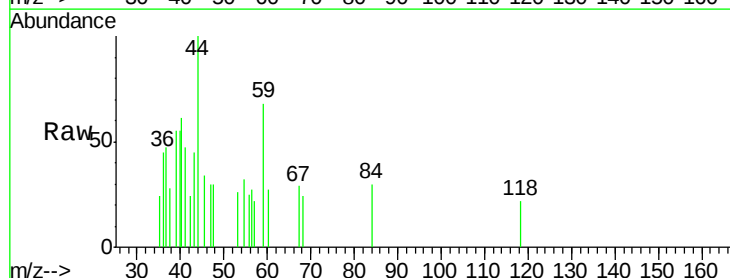
Acq: 31 Jul 2019 03:24

Tgt Ion: 59 Resp: 169

Ion Ratio Lower Upper

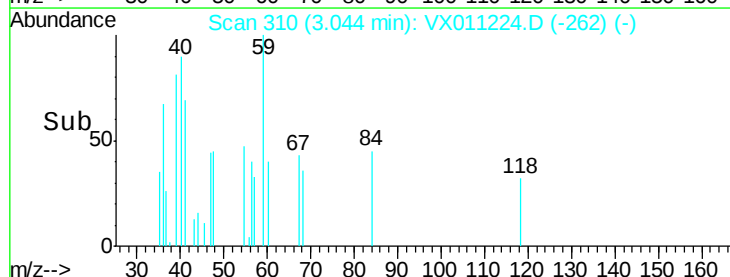
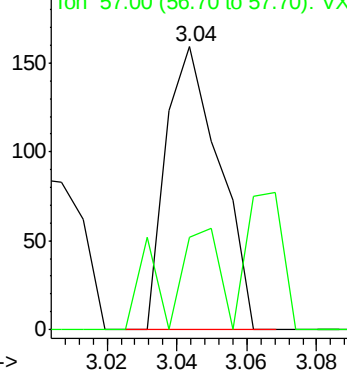
59 100

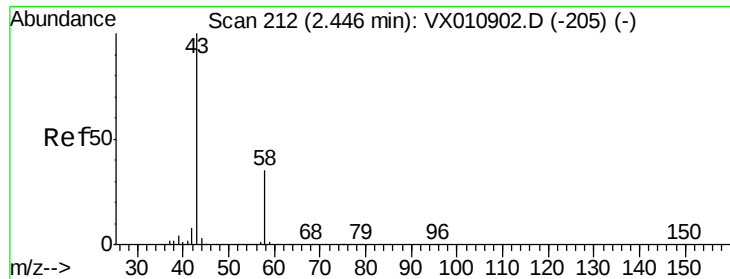
57 34.9 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 4.792 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

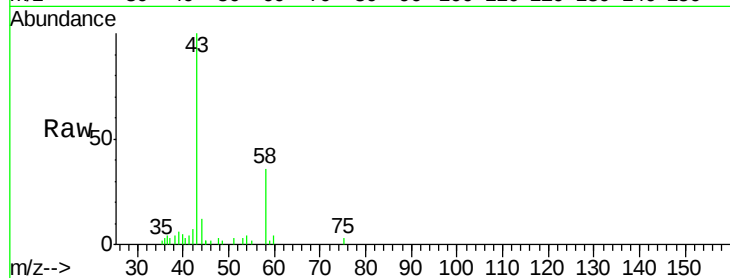
PB121803ZHE#04

Tgt Ion: 43 Resp: 5206

Ion Ratio Lower Upper

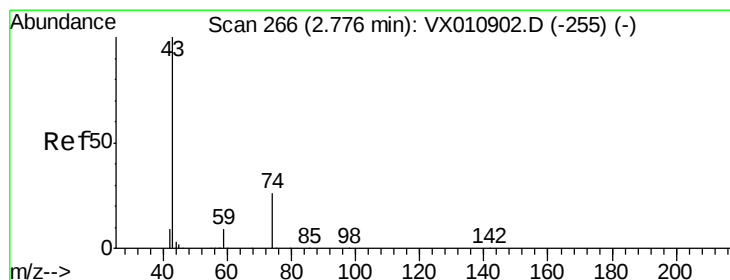
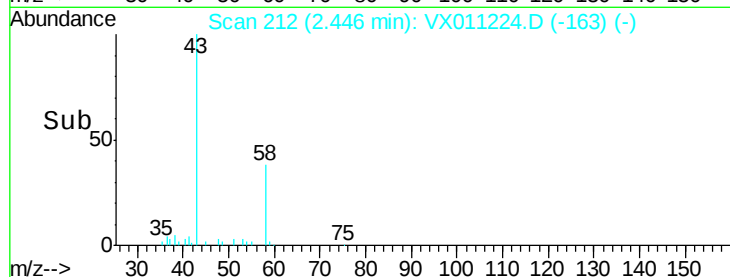
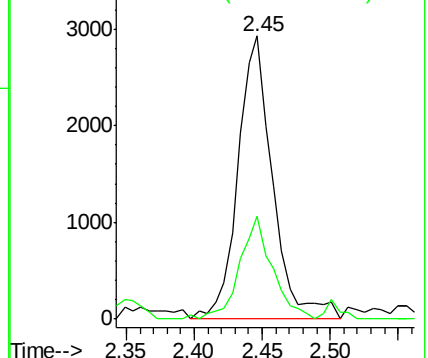
43 100

58 34.6 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.598 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX011224.D

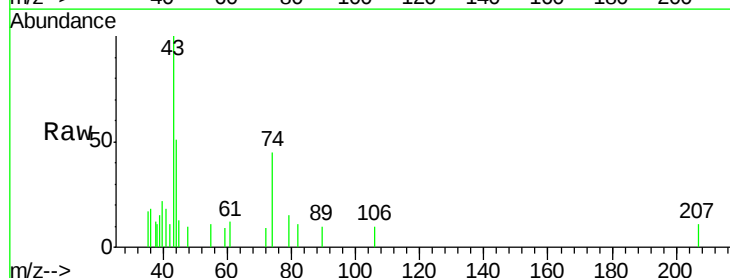
Acq: 31 Jul 2019 03:24

Tgt Ion: 43 Resp: 1480

Ion Ratio Lower Upper

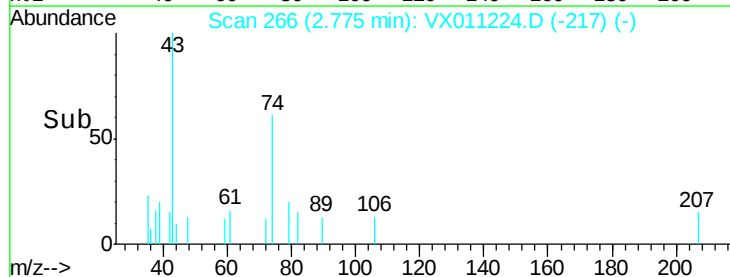
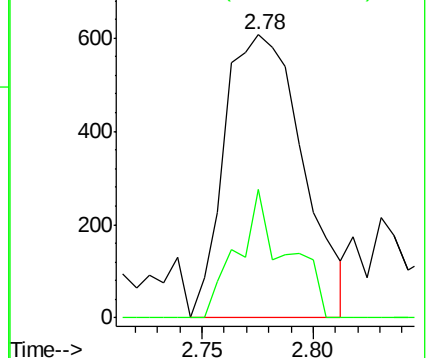
43 100

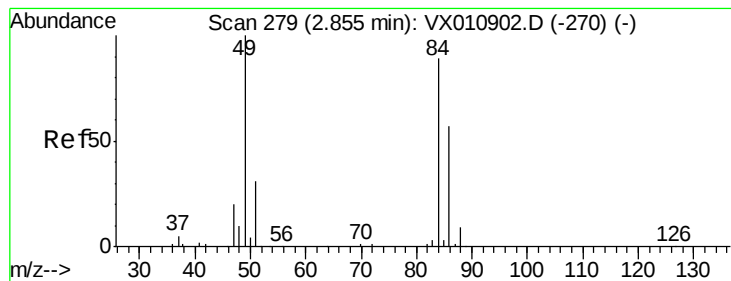
74 28.6 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 3.061 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#04

Tgt Ion: 84 Resp: 7047

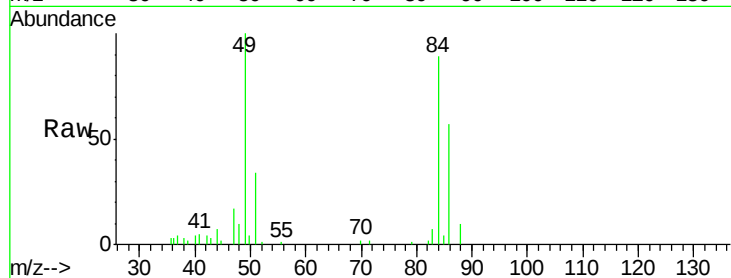
Ion Ratio Lower Upper

84 100

49 111.3 89.9 134.9

51 37.8 27.8 41.6

86 63.8 51.8 77.6

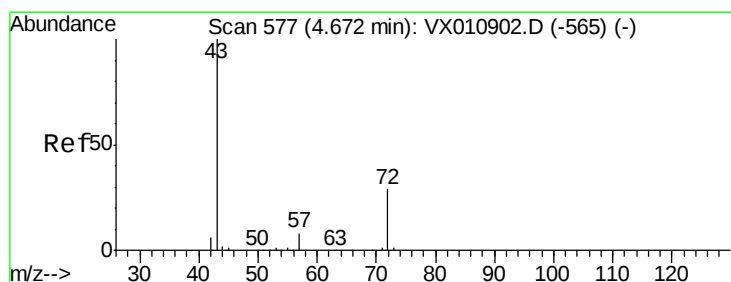
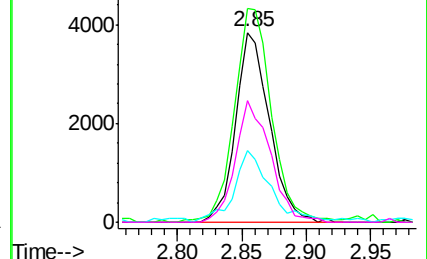
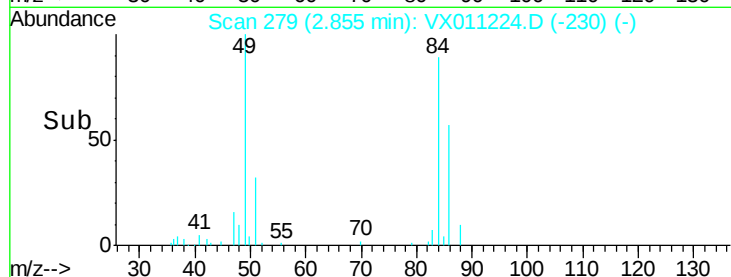


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.341 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX011224.D

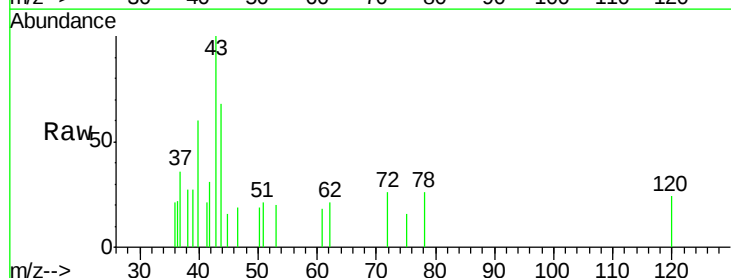
Acq: 31 Jul 2019 03:24

Tgt Ion: 43 Resp: 532

Ion Ratio Lower Upper

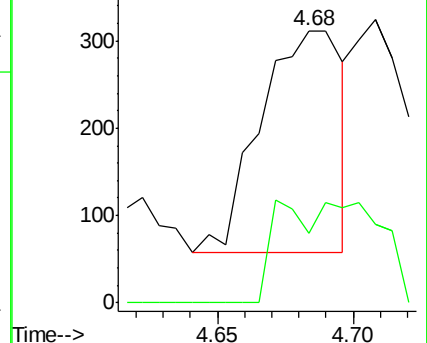
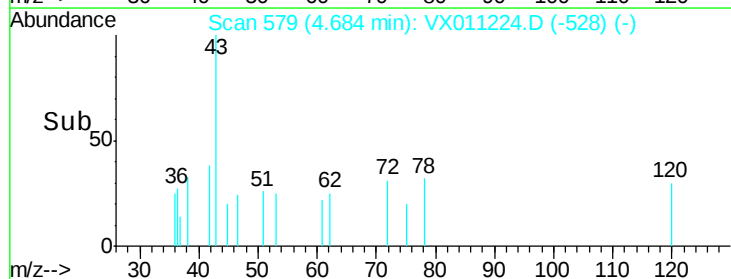
43 100

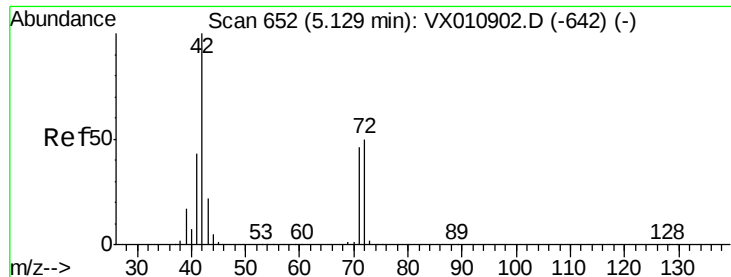
72 31.4 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

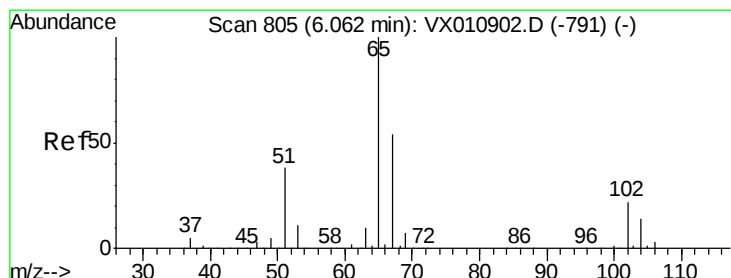
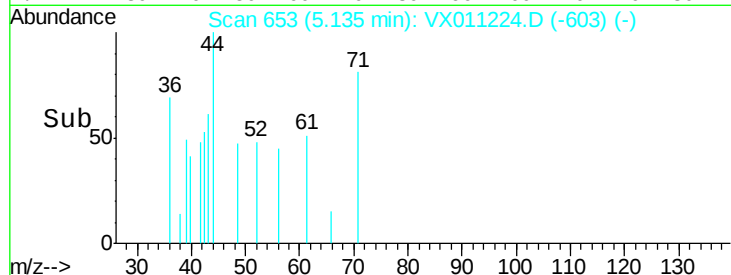
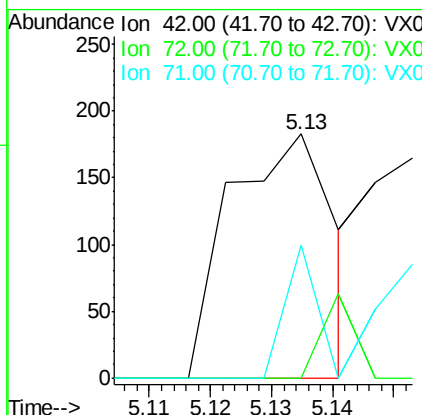
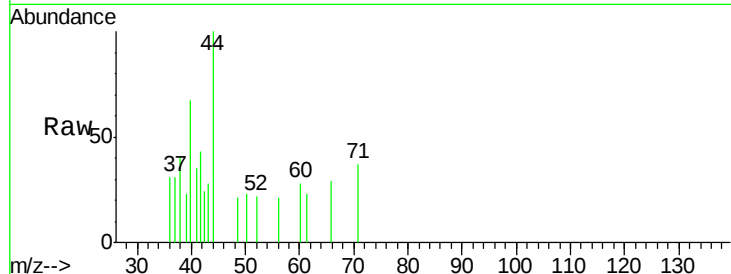




#29
Tetrahydrofuran
Concen: 0.219 ug/l
RT: 5.13 min Scan# 653
Delta R.T. 0.01 min
Lab File: VX011224.D
Acq: 31 Jul 2019 03:24

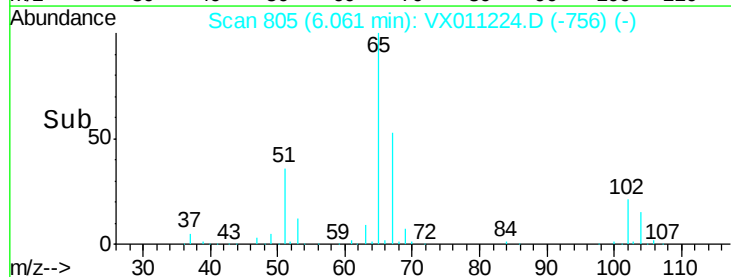
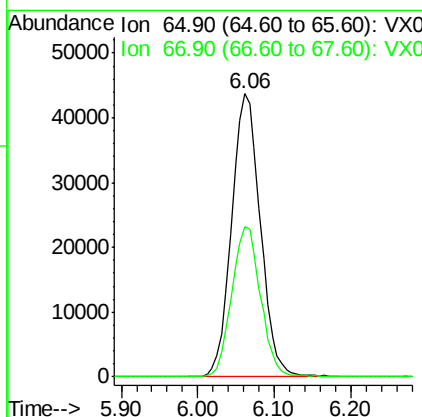
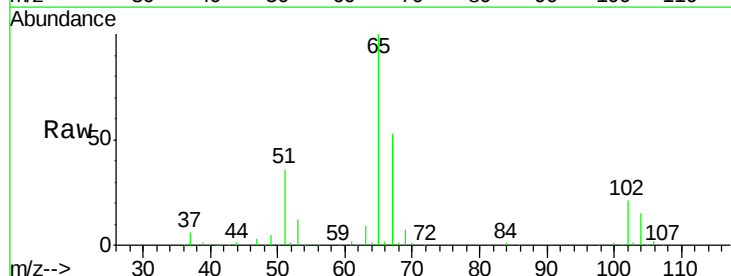
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#04

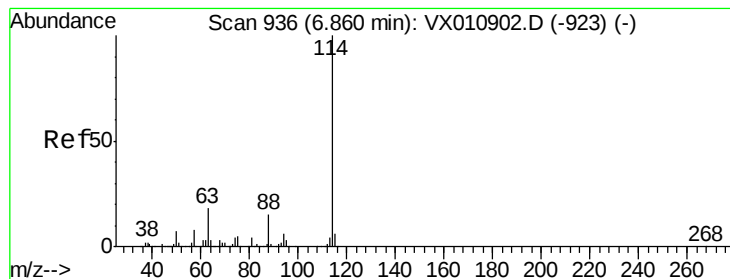
Tgt Ion: 42 Resp: 216
Ion Ratio Lower Upper
42 100
72 10.6 39.8 59.8#
71 17.1 37.0 55.4#



#33
1,2-Dichloroethane-d4
Concen: 47.255 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX011224.D
Acq: 31 Jul 2019 03:24

Tgt Ion: 65 Resp: 113657
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: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#04

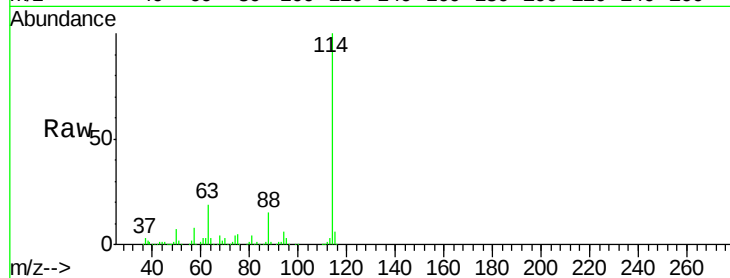
Tgt Ion:114 Resp: 329319

Ion Ratio Lower Upper

114 100

63 18.9 0.0 35.6

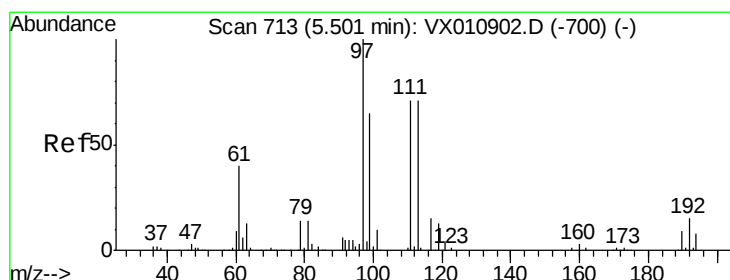
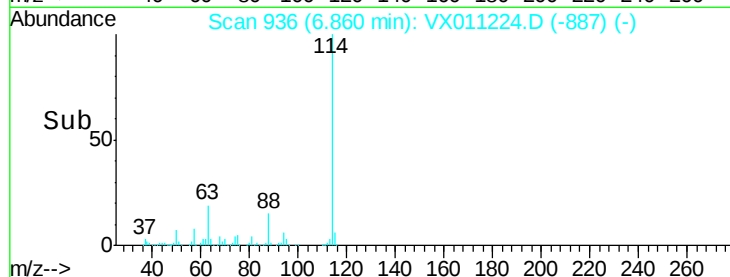
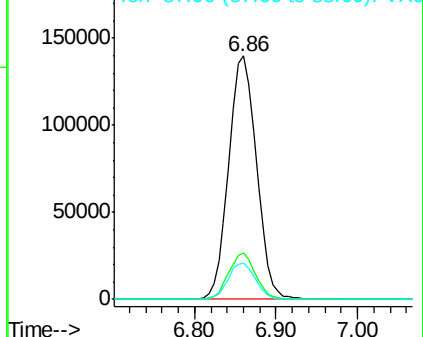
88 14.8 0.0 29.8



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



#35

Dibromofluoromethane

Concen: 46.682 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

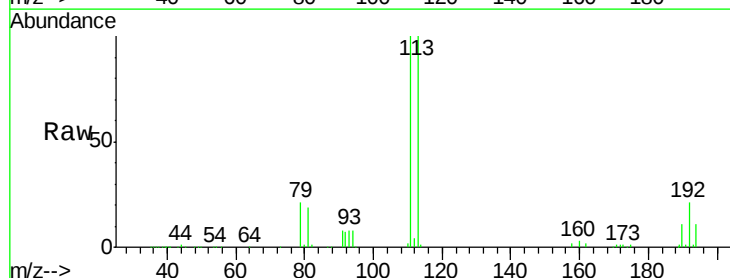
Tgt Ion:113 Resp: 97578

Ion Ratio Lower Upper

113 100

111 101.5 82.3 123.5

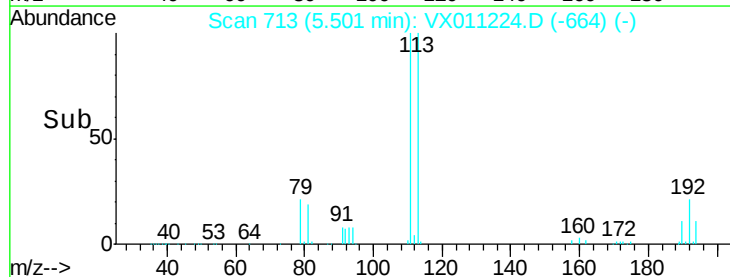
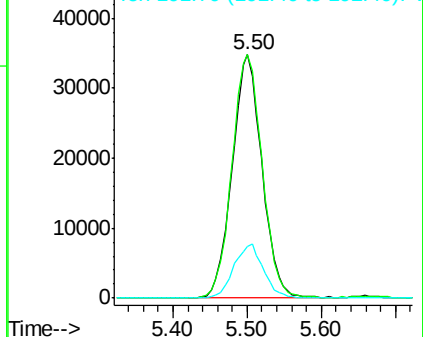
192 22.0 17.4 26.2

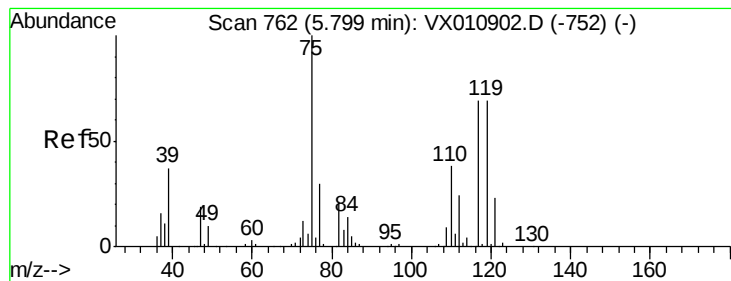


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.565 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

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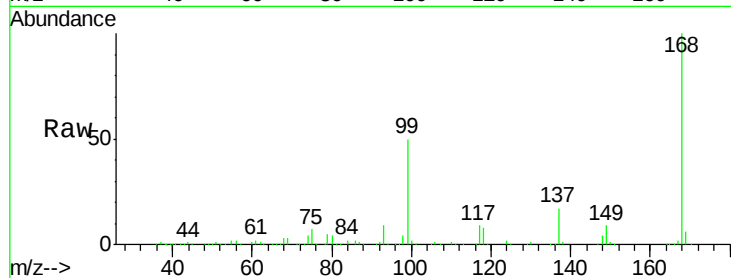
Tgt Ion: 75 Resp: 15054

Ion Ratio Lower Upper

75 100

110 11.5 19.9 59.7#

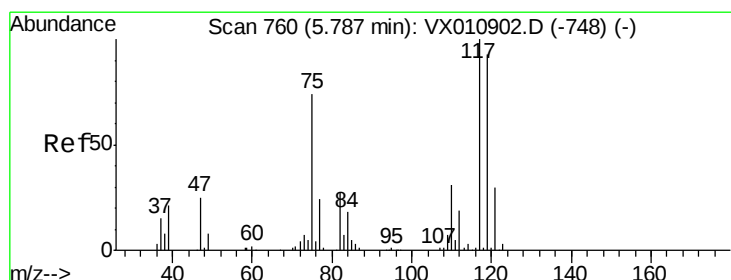
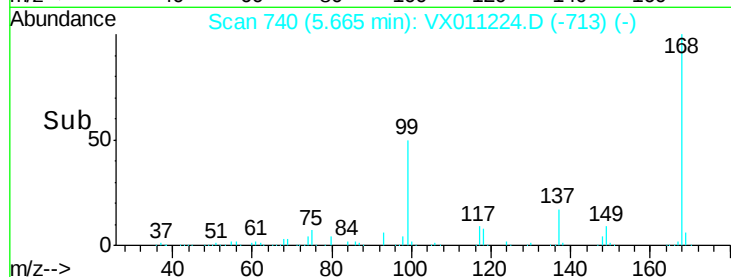
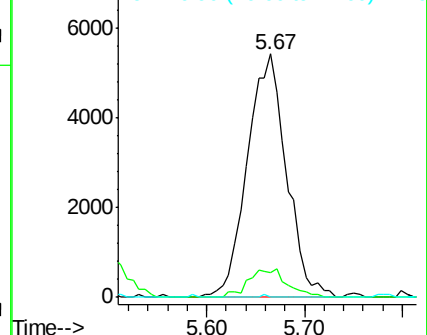
77 0.2 25.0 37.4#



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: 7.389 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

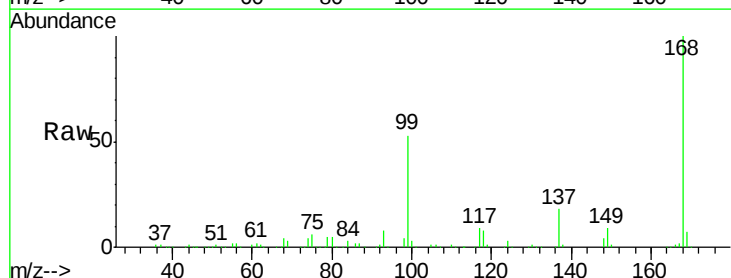
Tgt Ion: 117 Resp: 20828

Ion Ratio Lower Upper

117 100

119 5.4 74.2 111.2#

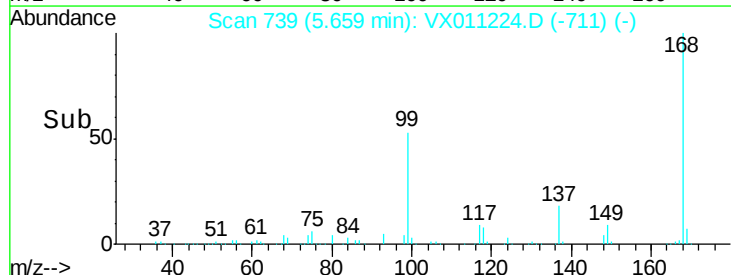
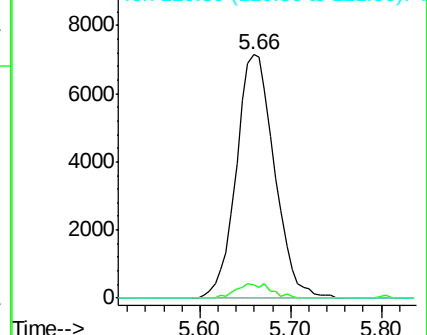
121 0.0 24.2 36.2#

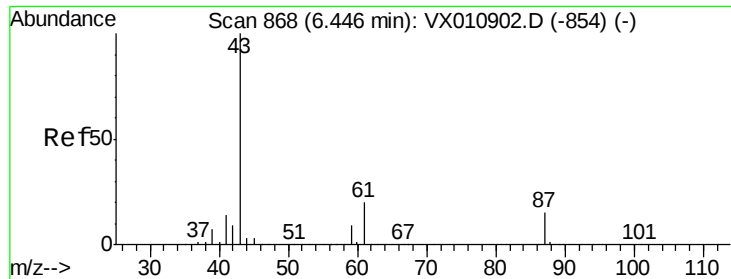


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.563 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#04

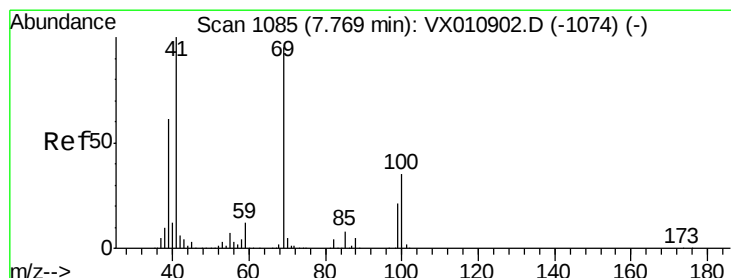
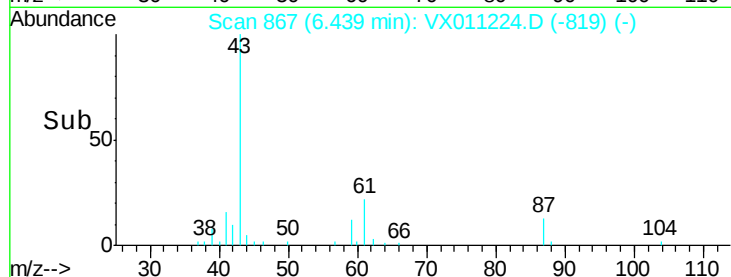
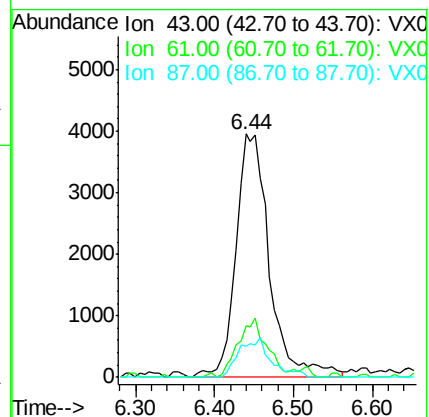
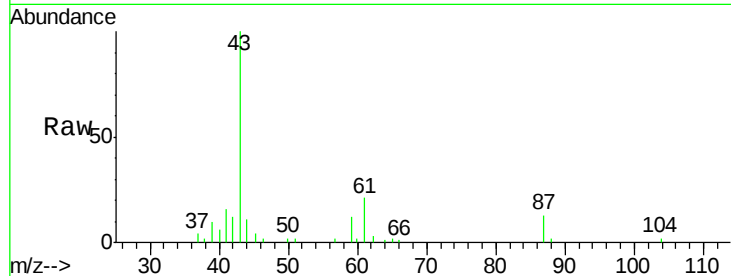
Tgt Ion: 43 Resp: 11675

Ion Ratio Lower Upper

43 100

61 21.2 17.1 25.7

87 15.3 12.0 18.0



#48

Methyl methacrylate

Concen: 2.227 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

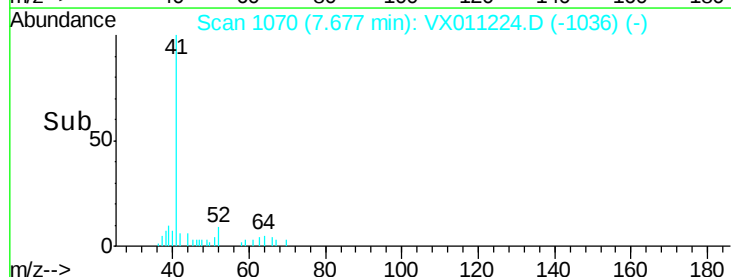
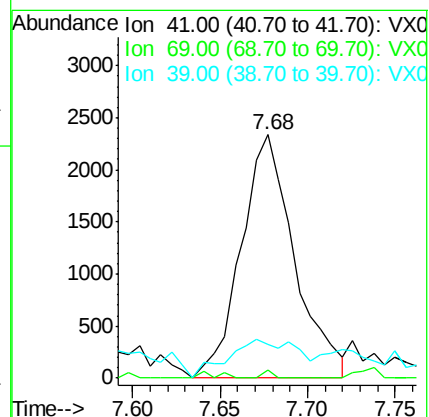
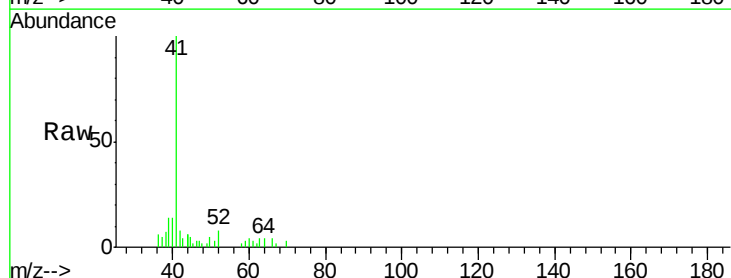
Tgt Ion: 41 Resp: 4942

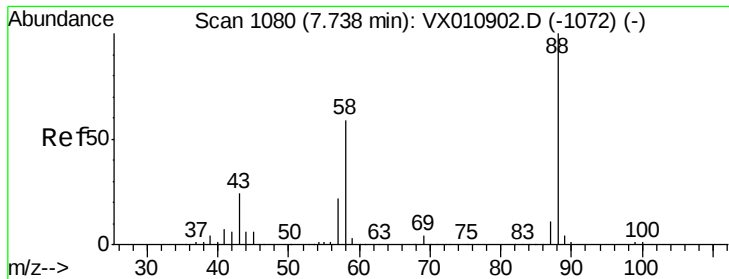
Ion Ratio Lower Upper

41 100

69 0.5 74.4 111.6#

39 0.0 48.9 73.3#

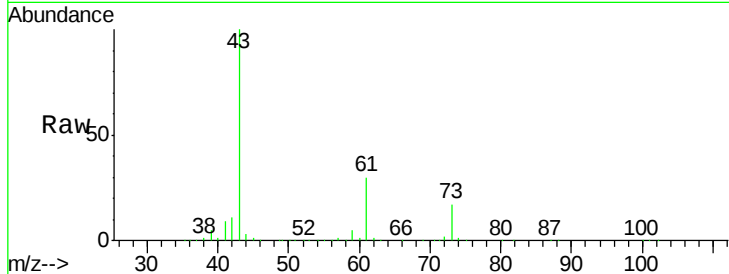




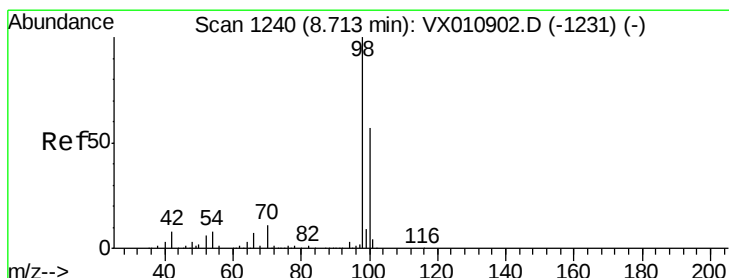
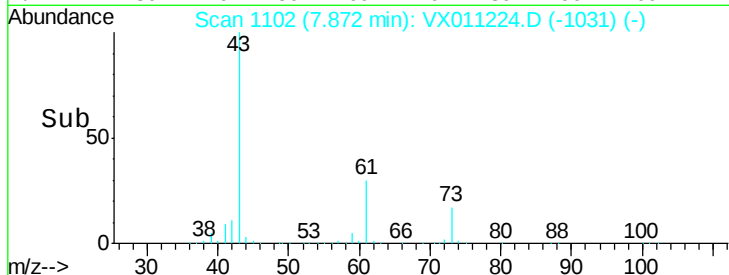
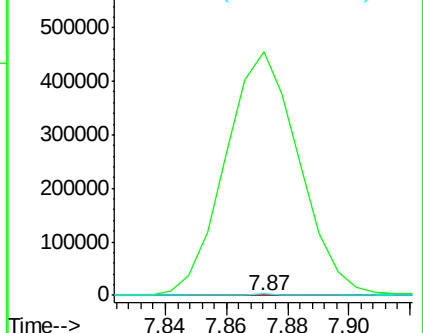
#49
1,4-Dioxane
Concen: 3.496 ug/l
RT: 7.87 min Scan# 1102
Delta R.T. 0.13 min
Lab File: VX011224.D
Acq: 31 Jul 2019 03:24

Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#04

Tgt Ion: 88 Resp: 217
Ion Ratio Lower Upper
88 100
43 352171.9 22.9 34.3#
58 1782.9 49.8 74.8#

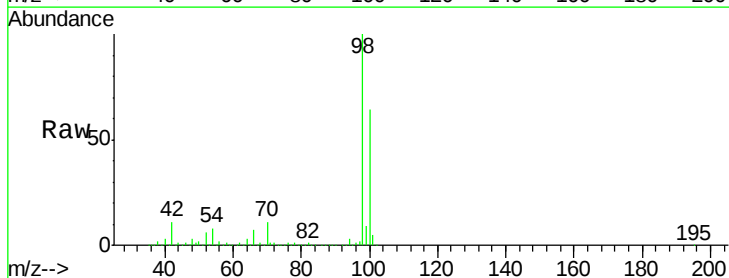


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

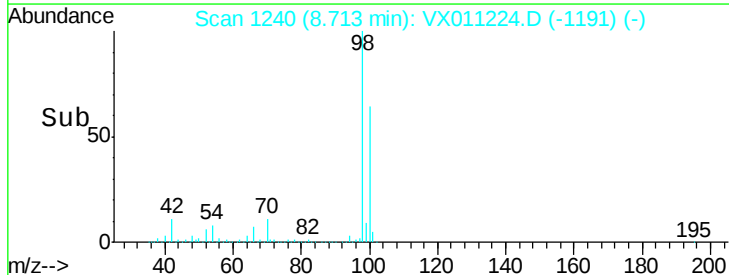
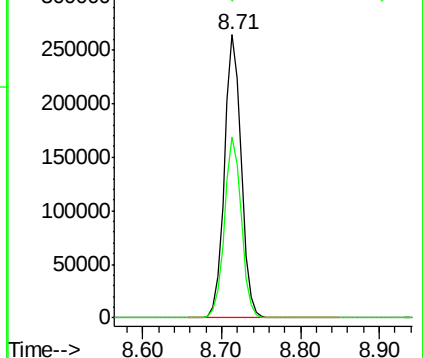


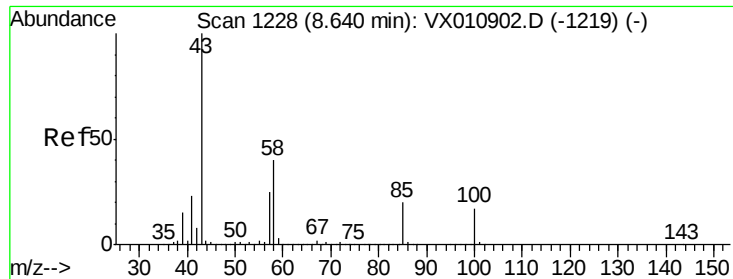
#50
Toluene-d8
Concen: 49.717 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011224.D
Acq: 31 Jul 2019 03:24

Tgt Ion: 98 Resp: 389770
Ion Ratio Lower Upper
98 100
100 64.1 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 18.834 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

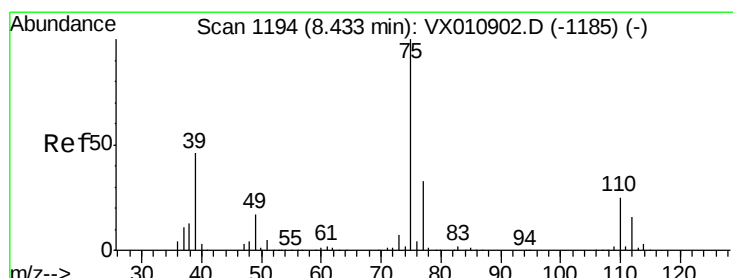
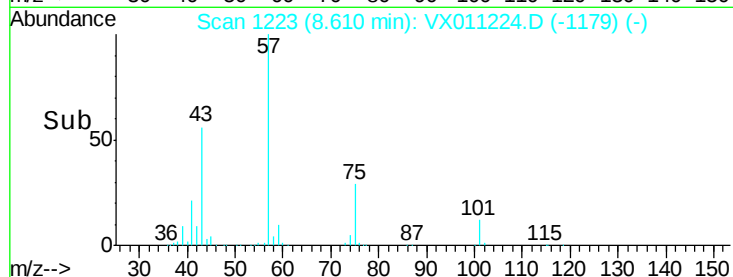
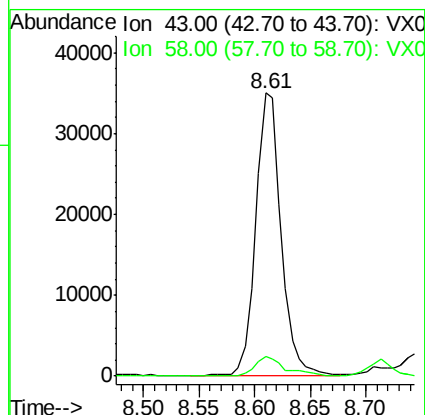
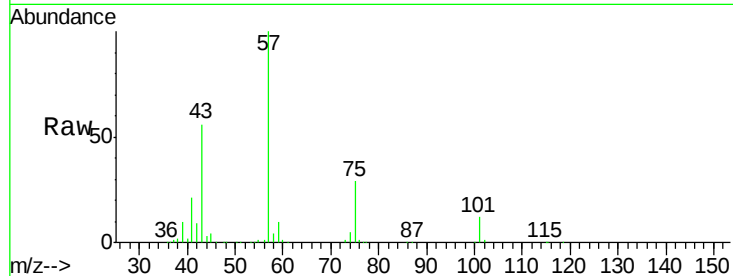
PB121803ZHE#04

Tgt Ion: 43 Resp: 55605

Ion Ratio Lower Upper

43 100

58 8.2 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 8.754 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

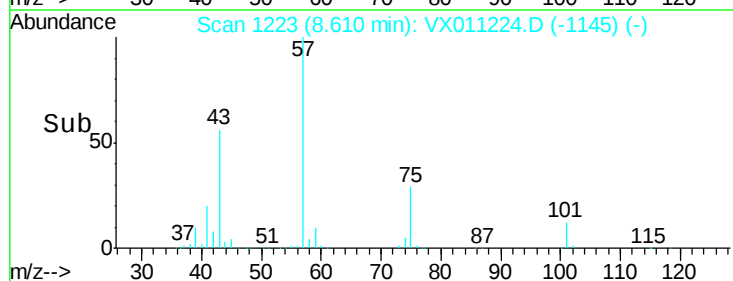
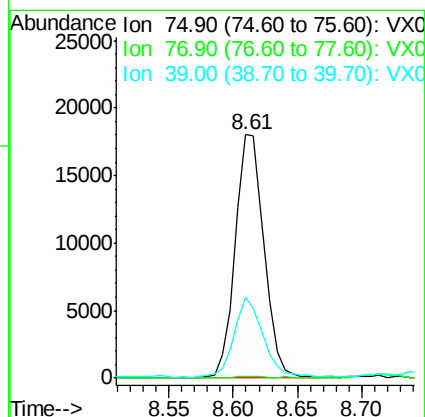
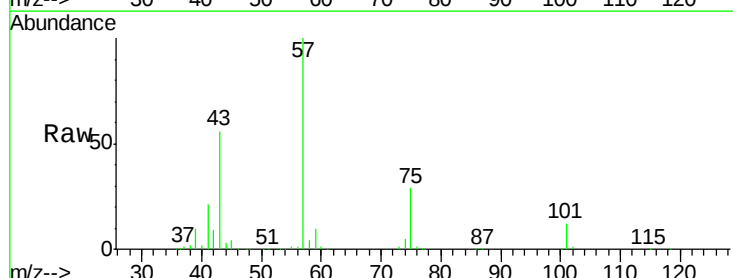
Tgt Ion: 75 Resp: 28098

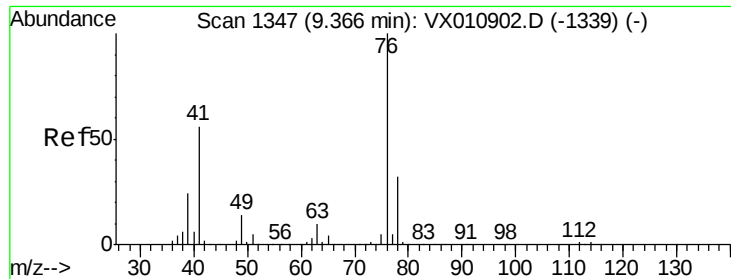
Ion Ratio Lower Upper

75 100

77 0.9 26.1 39.1#

39 32.8 36.6 54.8#

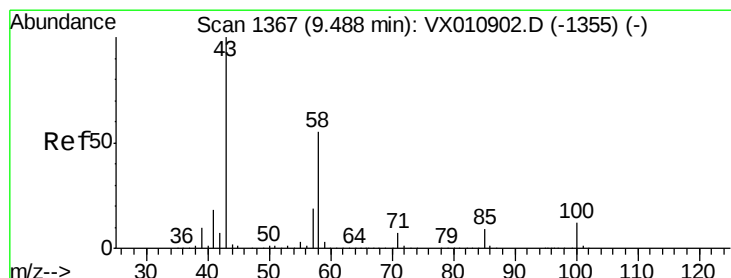
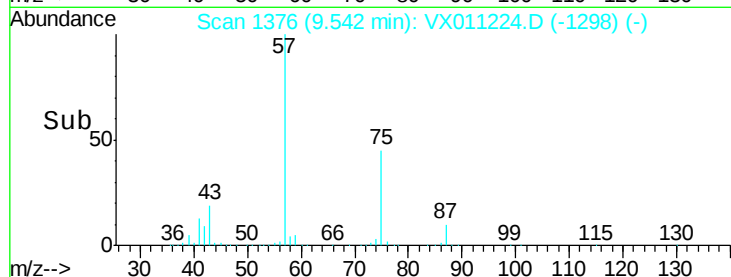
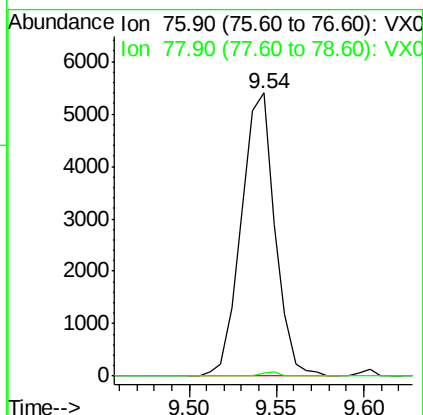
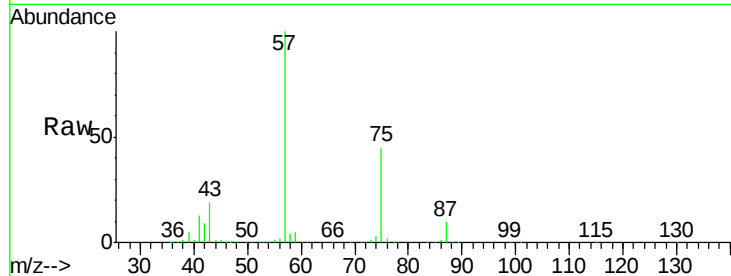




#57
 1,3-Dichloropropane
 Concen: 2.032 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.18 min
 Lab File: VX011224.D
 Acq: 31 Jul 2019 03:24

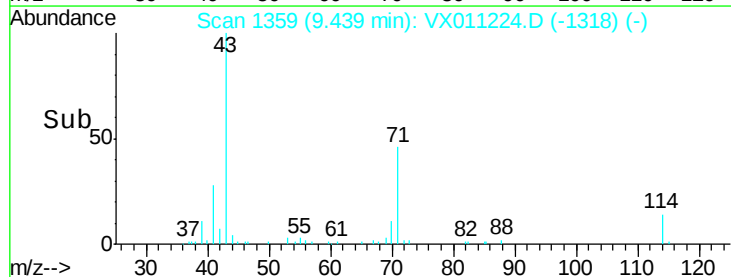
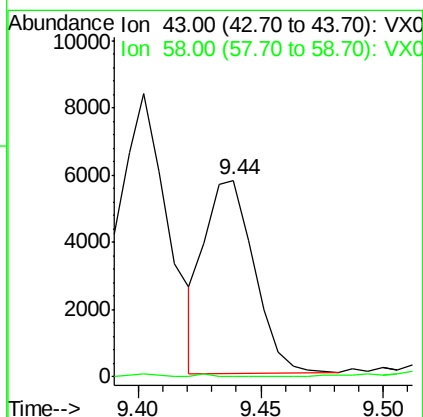
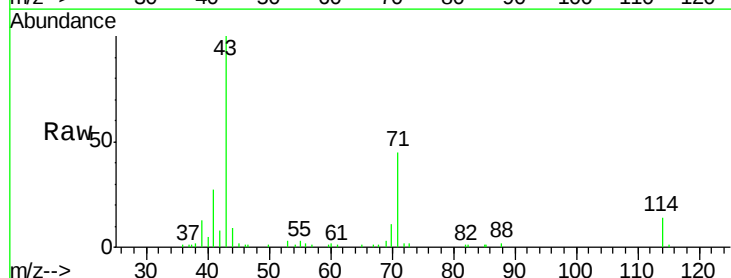
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121803ZHE#04

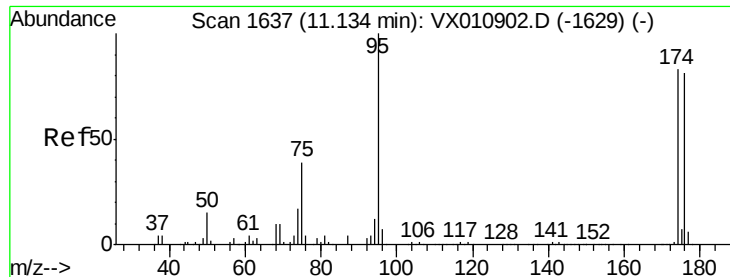
Tgt Ion: 76 Resp: 7226
 Ion Ratio Lower Upper
 76 100
 78 0.7 25.6 38.4#



#59
 2-Hexanone
 Concen: 3.527 ug/l
 RT: 9.44 min Scan# 1359
 Delta R.T. -0.05 min
 Lab File: VX011224.D
 Acq: 31 Jul 2019 03:24

Tgt Ion: 43 Resp: 8077
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 45.529 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#04

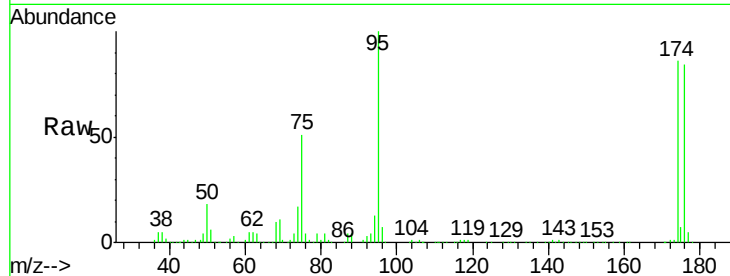
Tgt Ion: 95 Resp: 131199

Ion Ratio Lower Upper

95 100

174 92.0 0.0 180.6

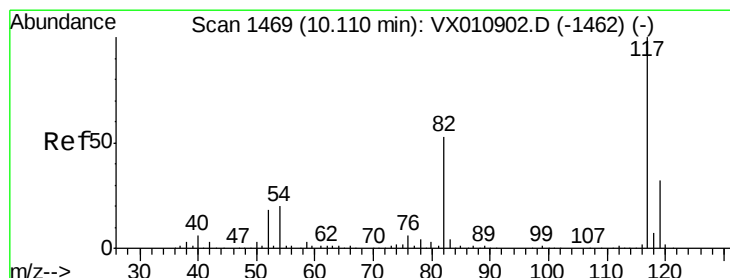
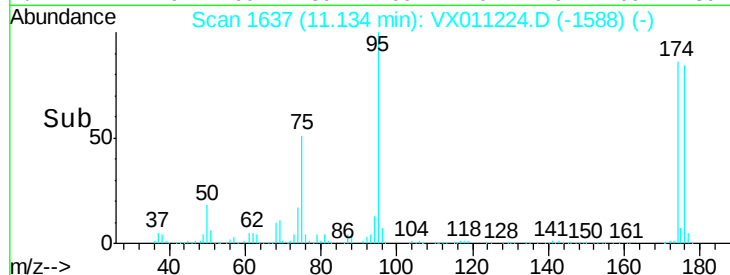
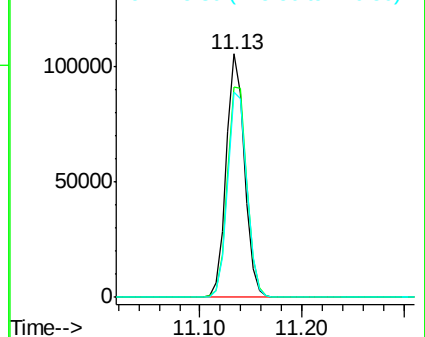
176 88.4 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011224.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011224.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011224.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

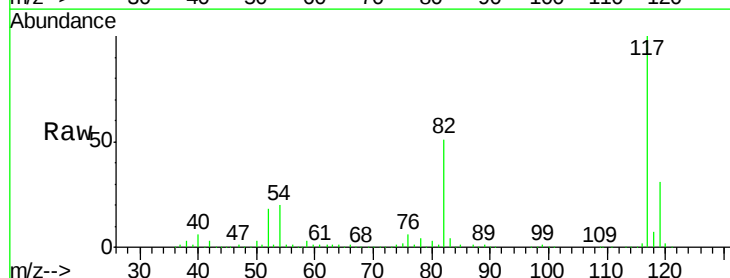
Tgt Ion: 117 Resp: 302287

Ion Ratio Lower Upper

117 100

82 51.4 42.6 63.8

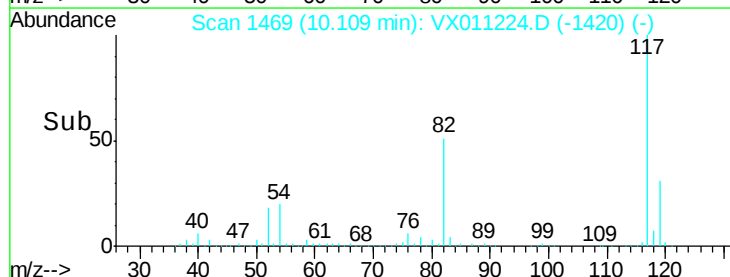
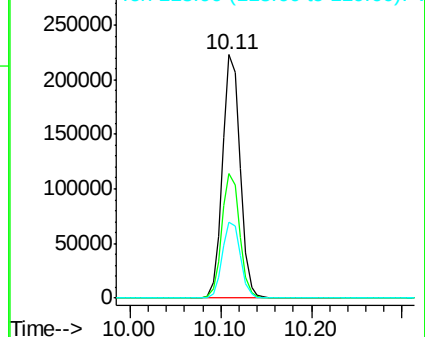
119 31.1 25.9 38.9

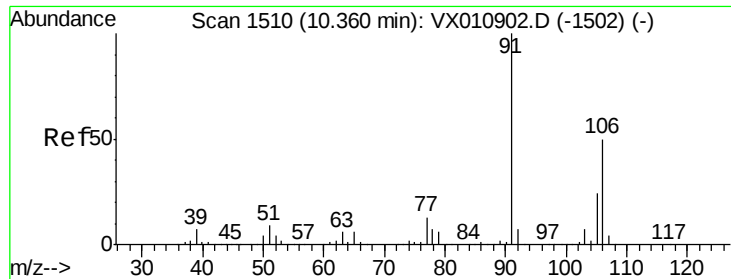


Abundance Ion 116.90 (116.60 to 117.60): VX011224.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011224.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011224.D (-1420) (-)

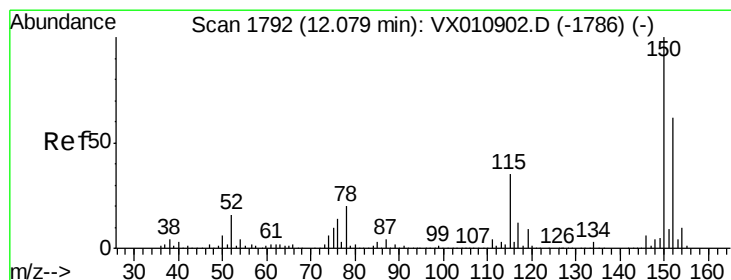
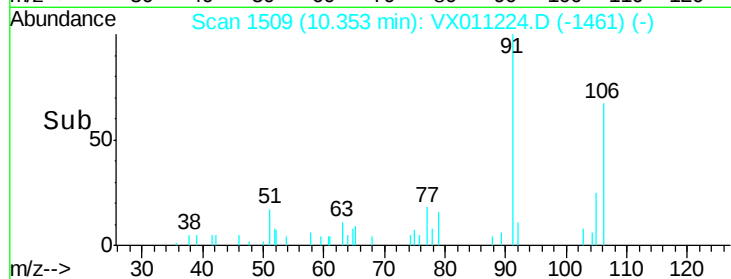
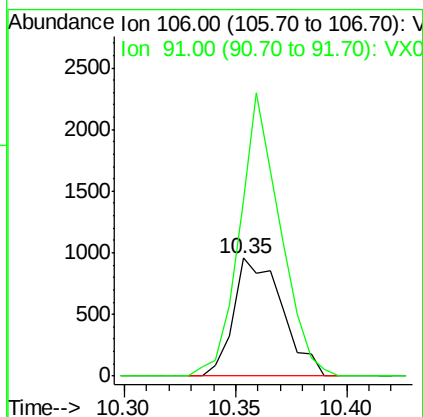
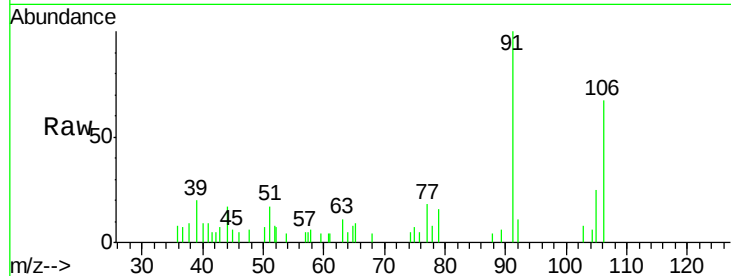




#68
m/p-Xylenes
Concen: 0.358 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX011224.D
Acq: 31 Jul 2019 03:24

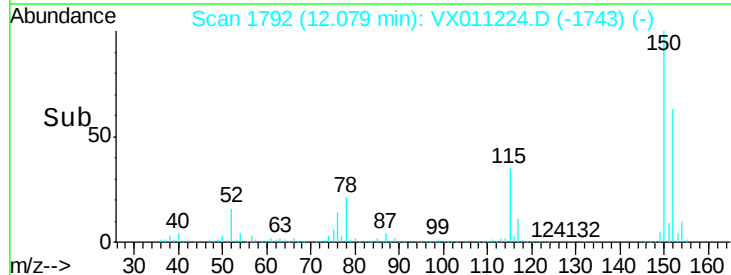
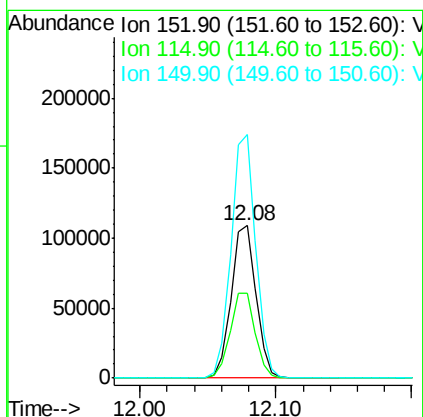
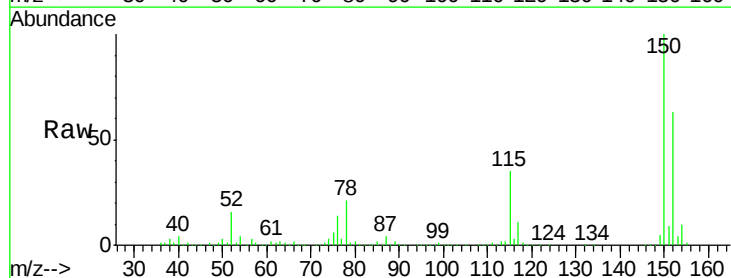
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#04

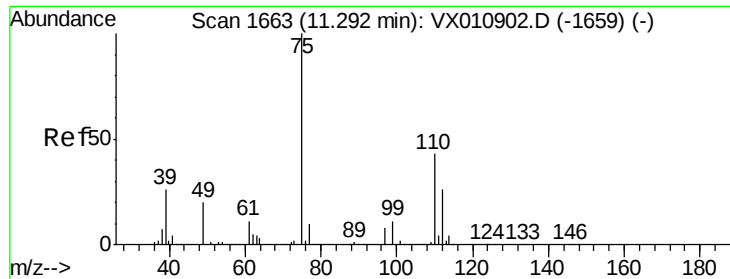
Tgt Ion:106 Resp: 1453
Ion Ratio Lower Upper
106 100
91 200.1 160.1 240.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011224.D
Acq: 31 Jul 2019 03:24

Tgt Ion:152 Resp: 138468
Ion Ratio Lower Upper
152 100
115 56.2 39.7 119.1
150 157.8 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 26.863 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

Instrument :

MSVOA_X

ClientSampleId :

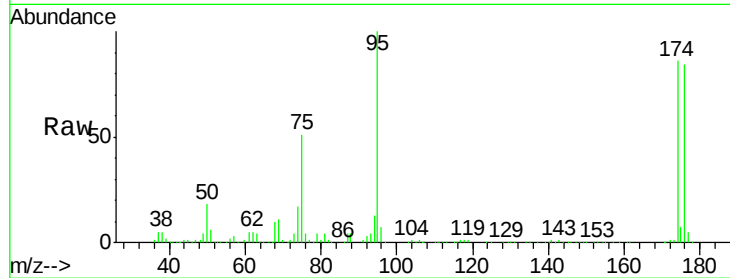
PB121803ZHE#04

Tgt Ion: 75 Resp: 67124

Ion Ratio Lower Upper

75 100

77 1.3 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

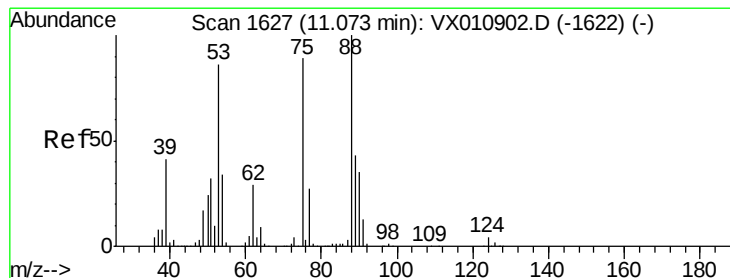
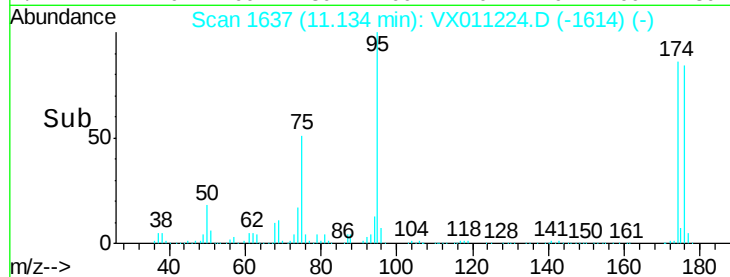
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 66.622 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011224.D

Acq: 31 Jul 2019 03:24

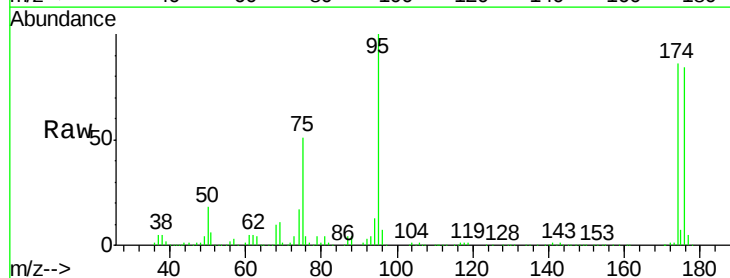
Tgt Ion: 75 Resp: 67124

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 38.5 57.7#



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

60000

40000

20000

0

Time-->

11.10 11.20

