

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072619\
 Data File : VX011100.D
 Acq On : 26 Jul 2019 18:56
 Operator : JC/SP
 Sample : PB121723ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#06

Quant Time: Jul 27 02:05:13 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	199797	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	319288	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	310026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144438	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	110195	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
35) Dibromofluoromethane	5.50	113	98732	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
50) Toluene-d8	8.71	98	398339	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	
62) 4-Bromofluorobenzene	11.13	95	142301	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	25	0.558	ug/l #	43
5) Bromomethane	1.64	94	263	0.249	ug/l #	52
8) Diethyl Ether	2.19	74	415	0.380	ug/l	59
13) Acrolein	2.29	56	237	0.829	ug/l #	64
16) Acetone	2.44	43	12249	12.759	ug/l	99
18) Methyl Acetate	2.78	43	1227	0.561	ug/l #	84
20) Methylene Chloride	2.86	84	2998	1.474	ug/l	94
25) 2-Butanone	4.70	43	1696	1.231	ug/l	95
29) Tetrahydrofuran	5.15	42	726	0.832	ug/l #	64
36) 1,1-Dichloropropene	5.66	75	13222	5.041	ug/l #	49
38) Carbon Tetrachloride	5.67	117	18499	6.769	ug/l #	16
43) Isopropyl Acetate	6.45	43	11853	2.684	ug/l	99
48) Methyl methacrylate	7.67	41	5557	2.583	ug/l #	10
49) 1,4-Dioxane	7.87	88	186	3.091	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	59286	20.711	ug/l #	49
54) cis-1,3-Dichloropropene	8.61	75	29783	9.571	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	7101	2.060	ug/l #	46
59) 2-Hexanone	9.54	43	92703	41.754	ug/l #	52
68) m/p-Xylenes	10.36	106	2134	0.513	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	71395	27.392	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	71395	67.854	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

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

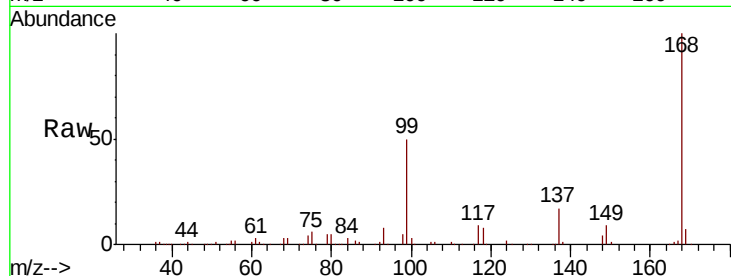
PB121723ZHE#06

Tot Ion:168 Resp: 199797

Ion Ratio Lower Upper

168 100

99 49.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

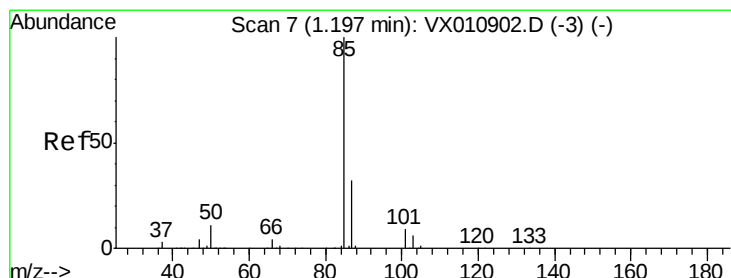
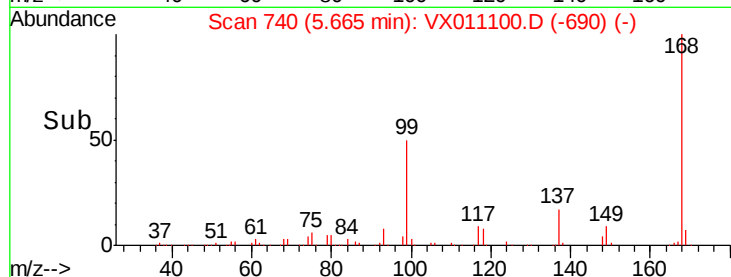
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.558 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011100.D

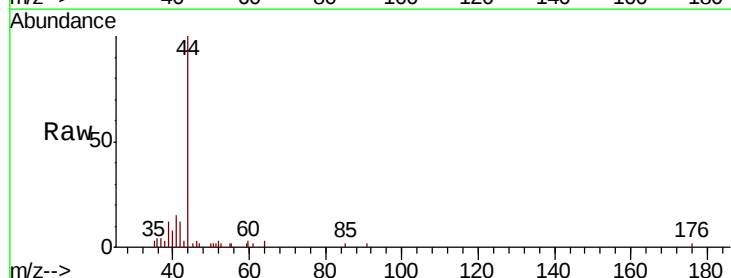
Acq: 26 Jul 2019 18:56

Tgt Ion: 85 Resp: 25

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

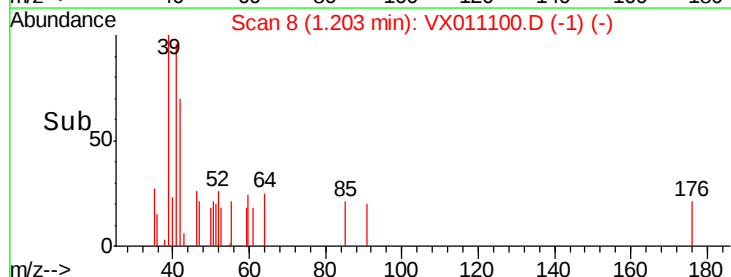
60

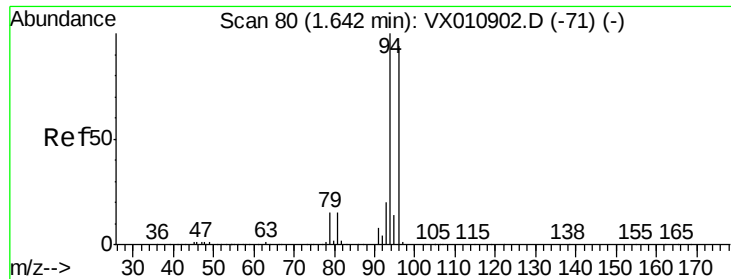
40

20

0

Time--> 1.18 1.19 1.20 1.21 1.22





#5

Bromomethane

Concen: 0.249 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

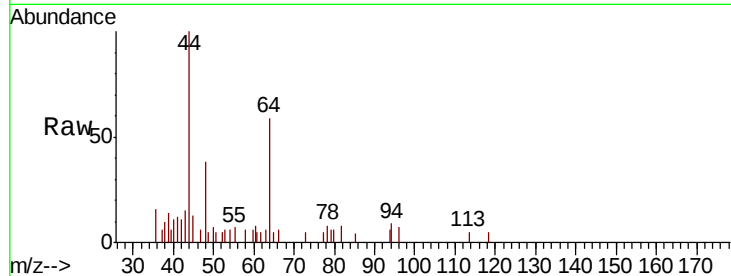
PB121723ZHE#06

Tot Ion: 94 Resp: 263

Ion Ratio Lower Upper

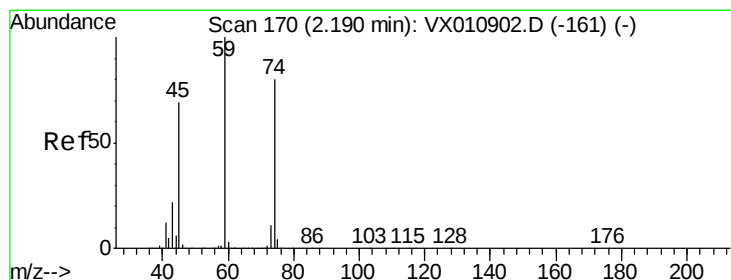
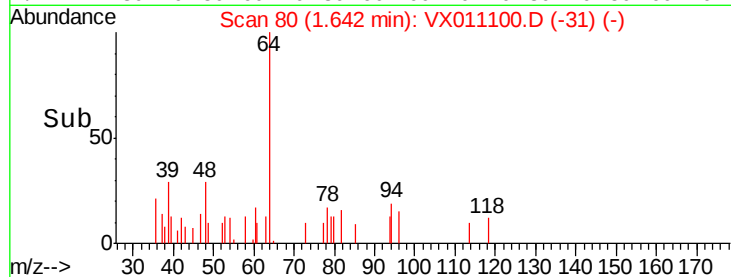
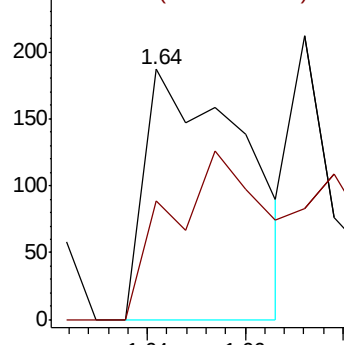
94 100

96 47.6 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.380 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX011100.D

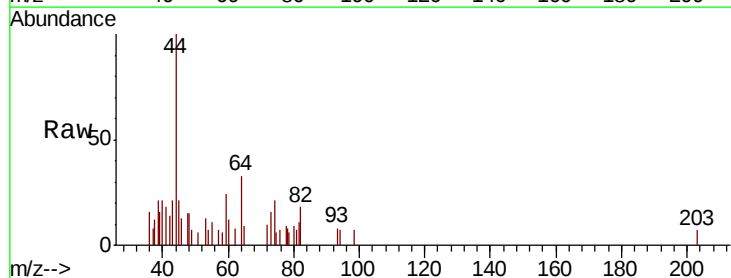
Acq: 26 Jul 2019 18:56

Tgt Ion: 74 Resp: 415

Ion Ratio Lower Upper

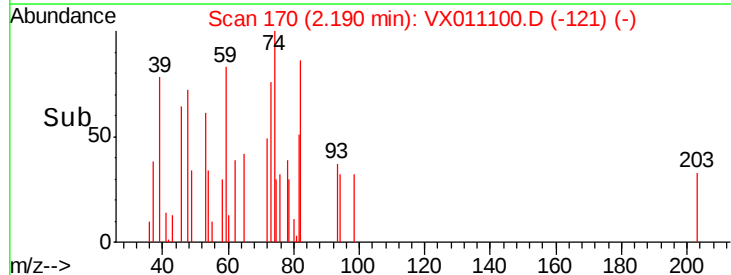
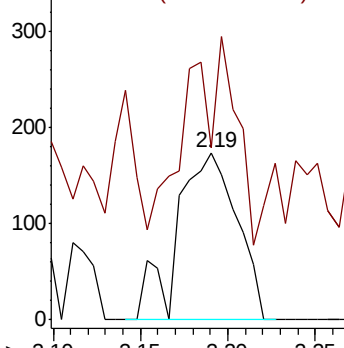
74 100

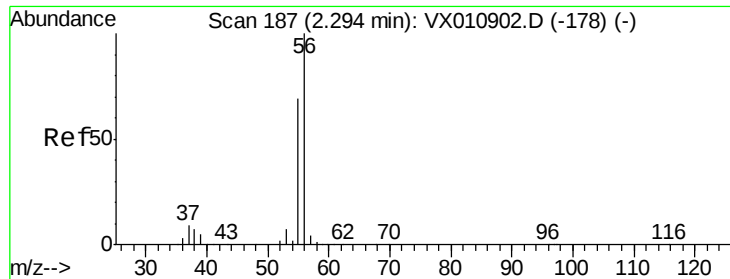
45 52.0 45.5 136.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#13

Acrolein

Concen: 0.829 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

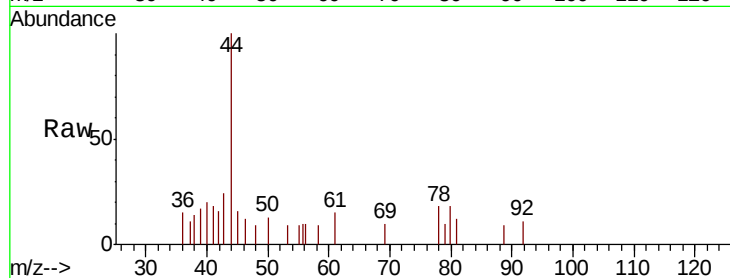
PB121723ZHE#06

Tot Ion: 56 Resp: 237

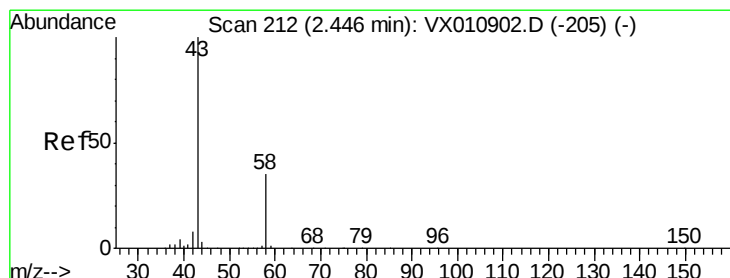
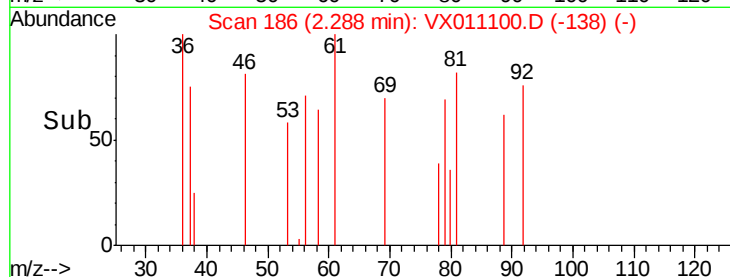
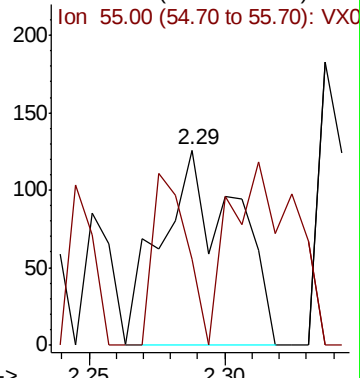
Ion Ratio Lower Upper

56 100

55 40.5 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0



#16

Acetone

Concen: 12.759 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011100.D

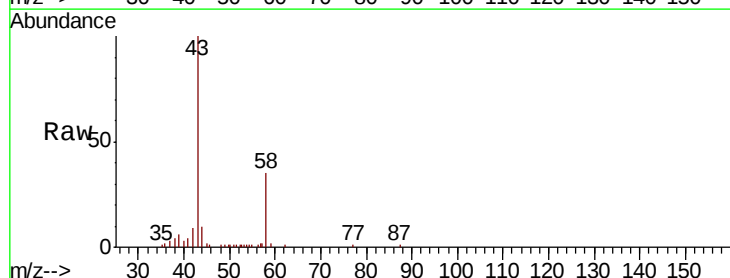
Acq: 26 Jul 2019 18:56

Tgt Ion: 43 Resp: 12249

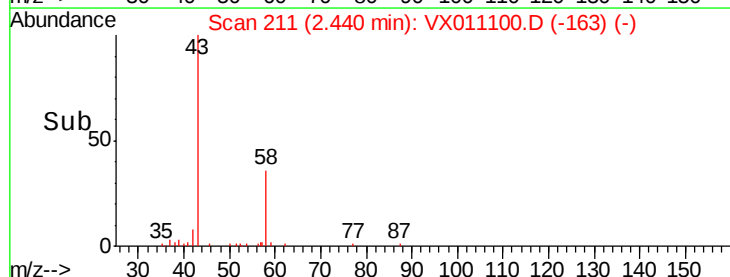
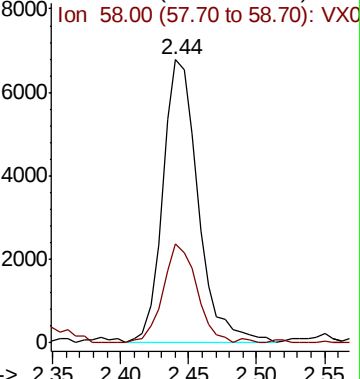
Ion Ratio Lower Upper

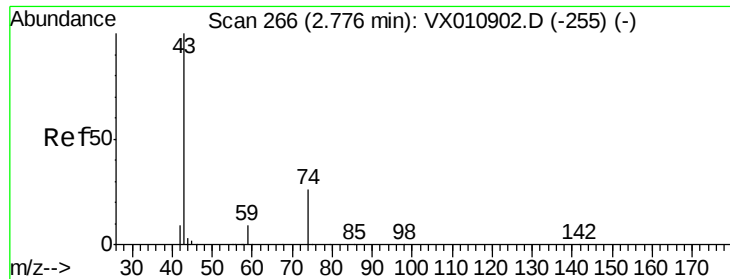
43 100

58 34.9 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

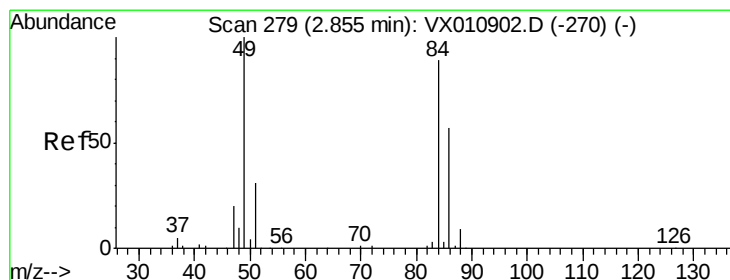
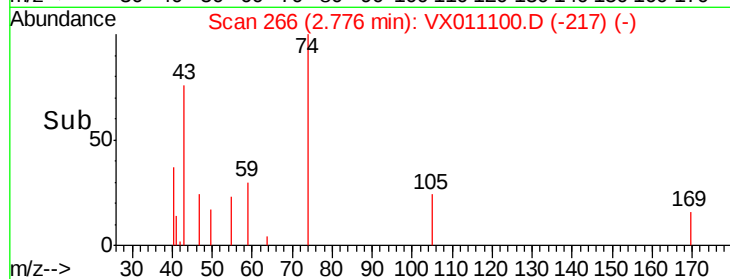
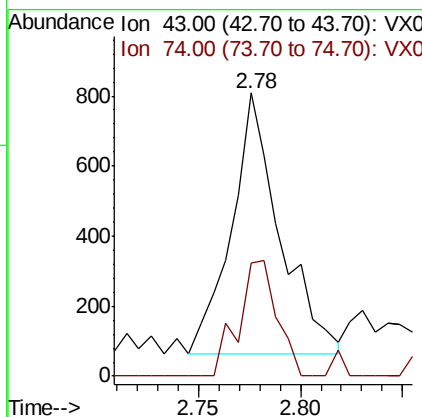
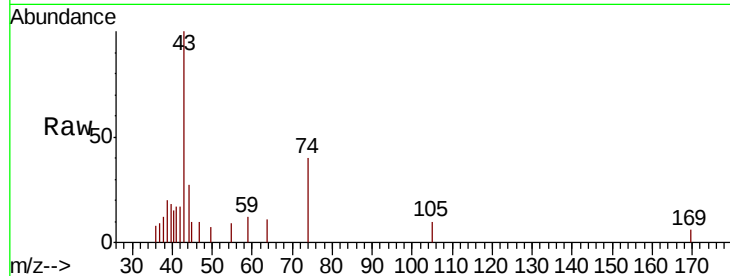




#18
Methvl Acetate
Concen: 0.561 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX011100.D
Acq: 26 Jul 2019 18:56

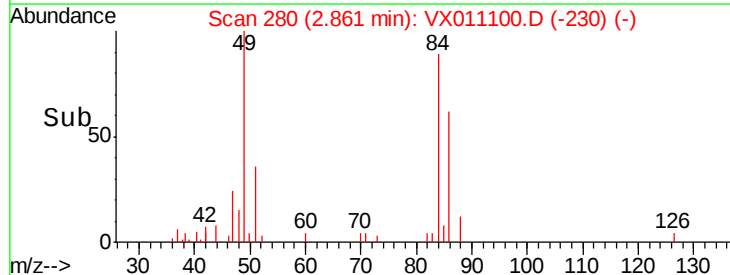
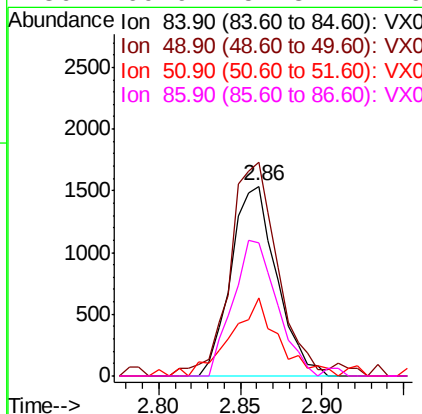
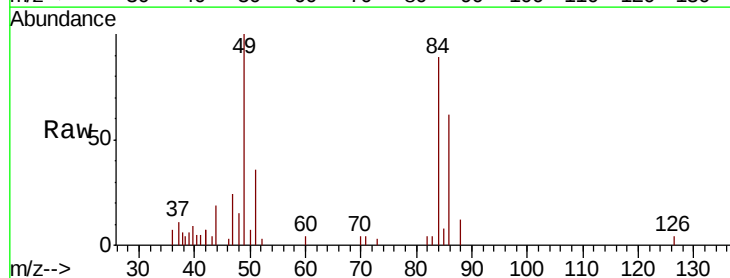
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#06

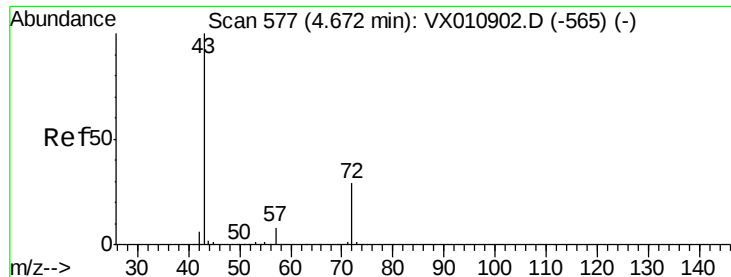
Tot Ion: 43 Resp: 1227
Ion Ratio Lower Upper
43 100
74 35.1 21.5 32.3#



#20
Methylene Chloride
Concen: 1.474 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011100.D
Acq: 26 Jul 2019 18:56

Tgt Ion: 84 Resp: 2998
Ion Ratio Lower Upper
84 100
49 108.3 89.9 134.9
51 41.1 27.8 41.6
86 69.9 51.8 77.6





#25

2-Butanone

Concen: 1.231 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

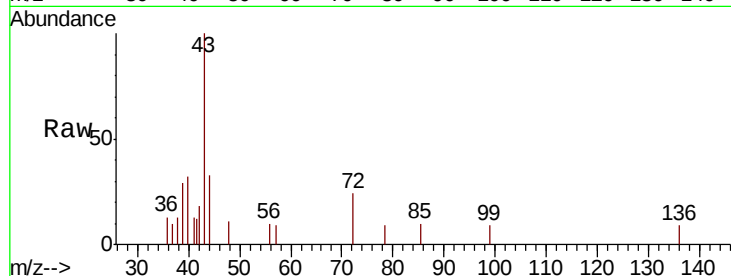
PB121723ZHE#06

Tot Ion: 43 Resp: 1696

Ion Ratio Lower Upper

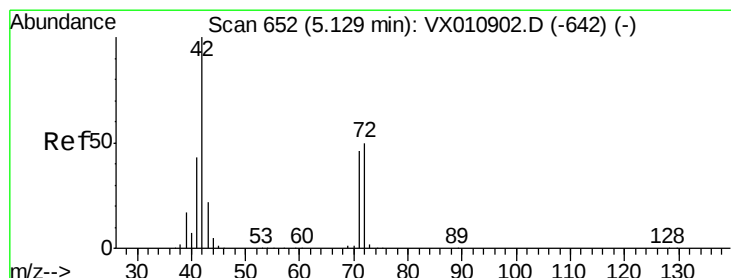
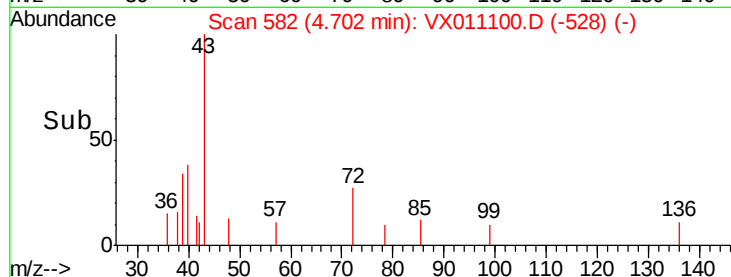
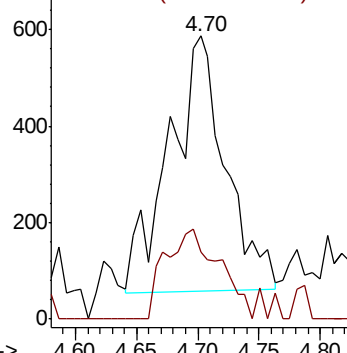
43 100

72 26.2 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: 0.832 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

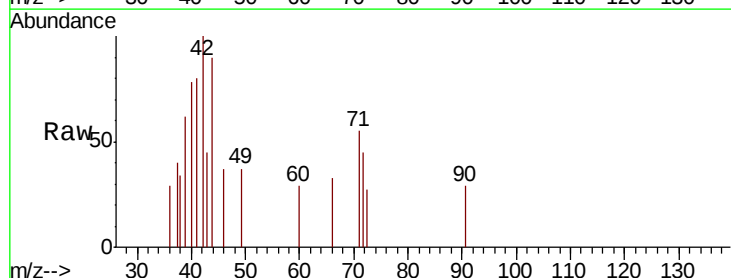
Tgt Ion: 42 Resp: 726

Ion Ratio Lower Upper

42 100

72 21.3 39.8 59.8#

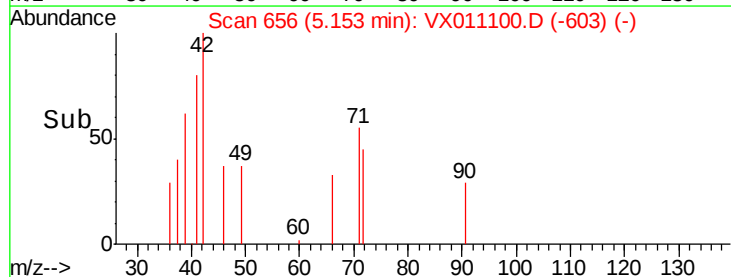
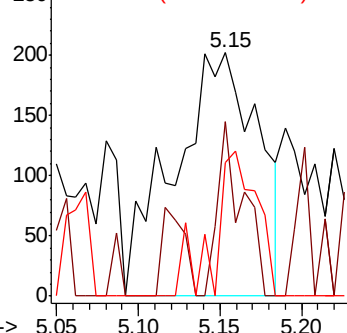
71 26.4 37.0 55.4#

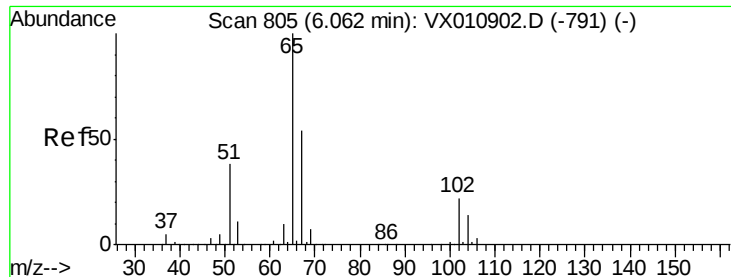


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.843 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

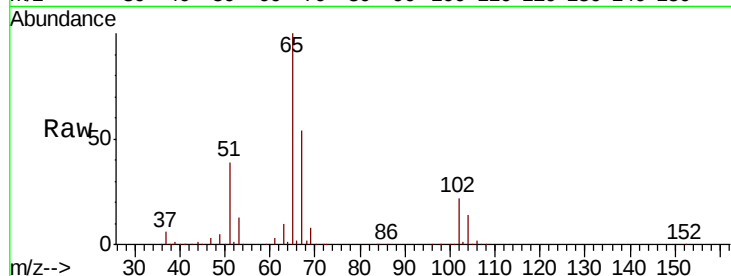
PB121723ZHE#06

Tot Ion: 65 Resp: 110195

Ion Ratio Lower Upper

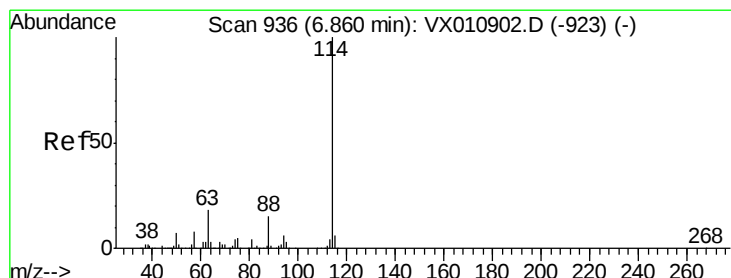
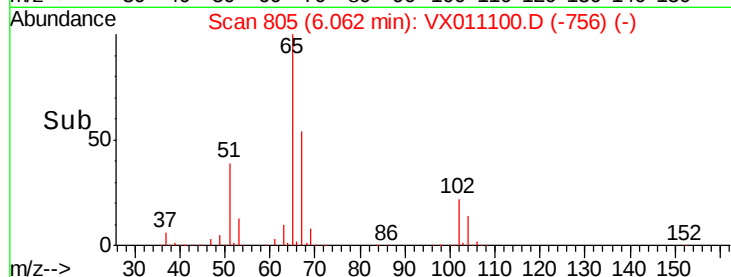
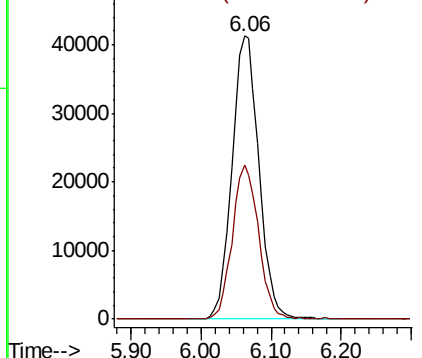
65 100

67 53.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

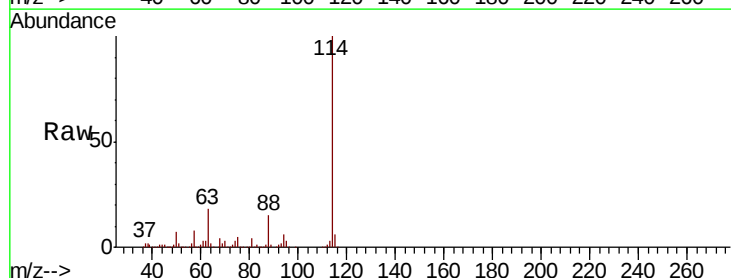
Tgt Ion: 114 Resp: 319288

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

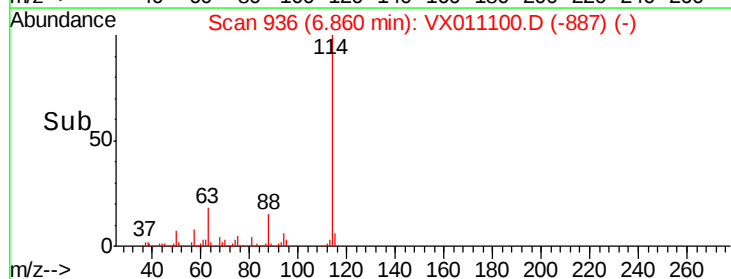
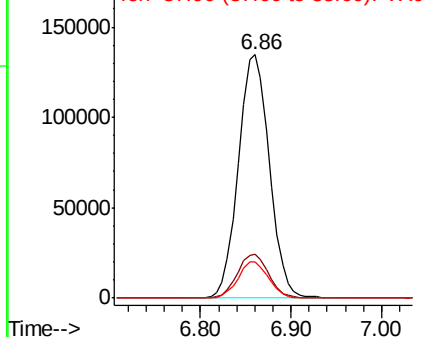
88 14.9 0.0 29.8

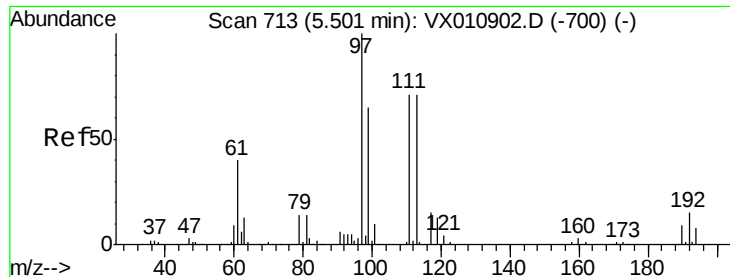


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.718 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

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ClientSampleId :

PB121723ZHE#06

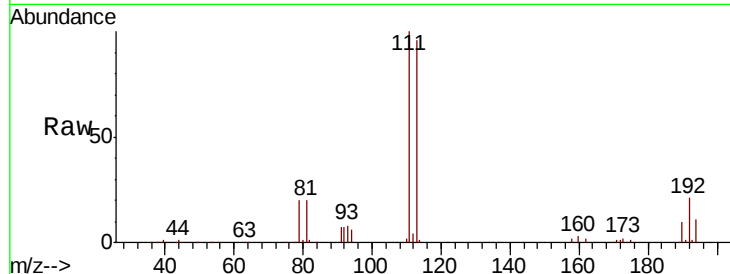
Tot Ion:113 Resp: 98732

Ion Ratio Lower Upper

113 100

111 102.0 82.3 123.5

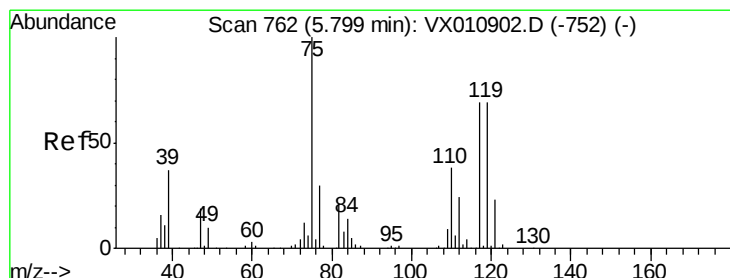
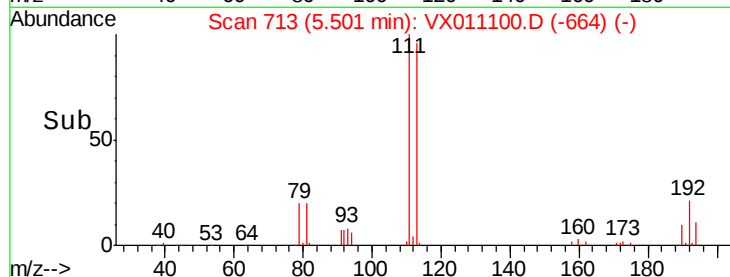
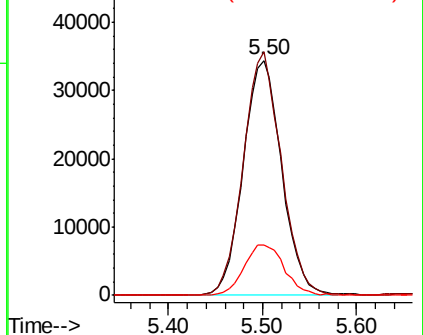
192 22.5 17.4 26.2



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: 5.041 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

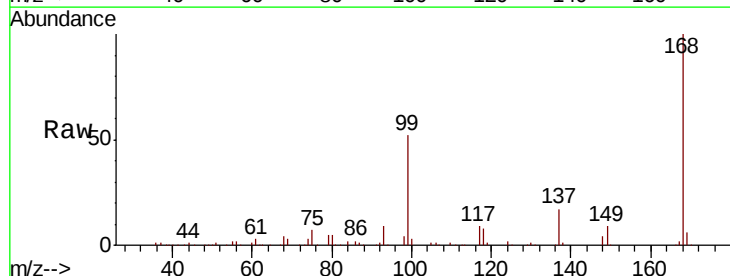
Tgt Ion: 75 Resp: 13222

Ion Ratio Lower Upper

75 100

110 11.2 19.9 59.7#

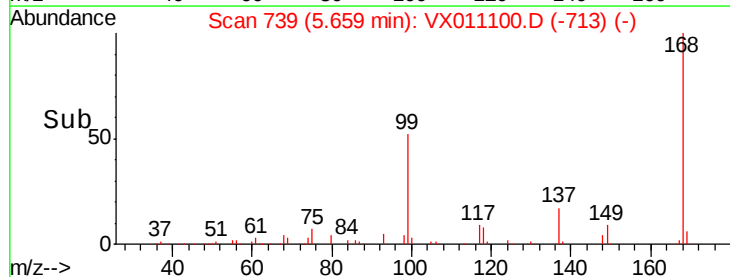
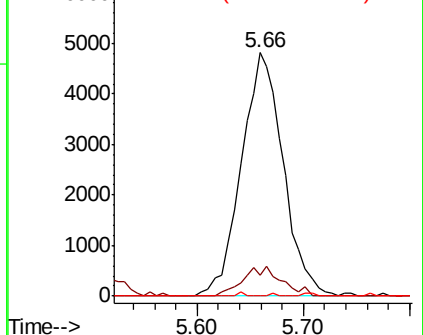
77 0.2 25.0 37.4#

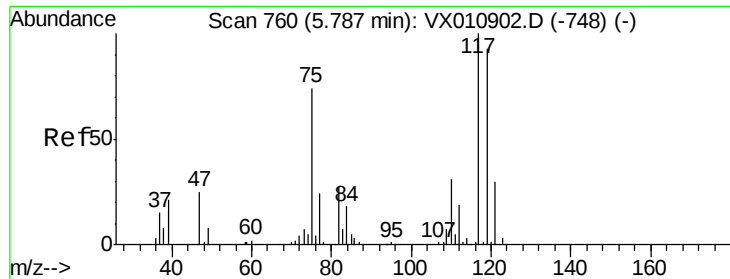


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.769 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#06

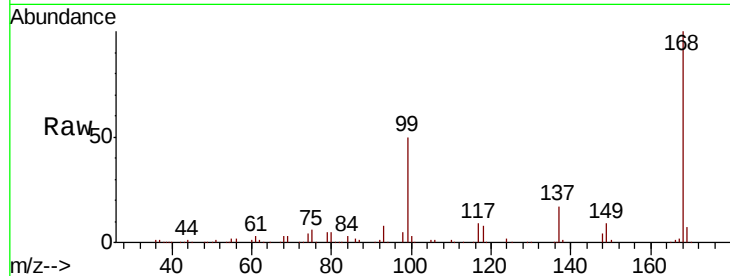
Tot Ion:117 Resp: 18499

Ion Ratio Lower Upper

117 100

119 3.7 74.2 111.2#

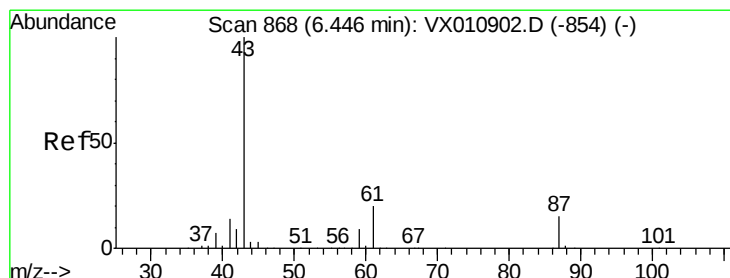
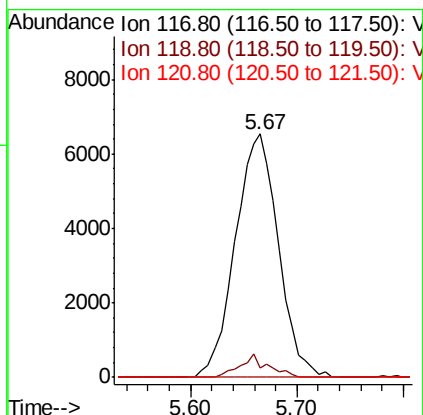
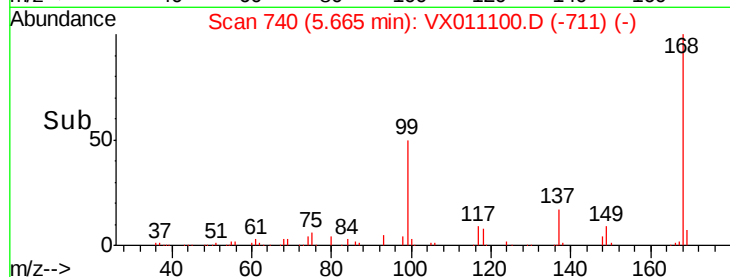
121 0.0 24.2 36.2#



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: 2.684 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.00 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

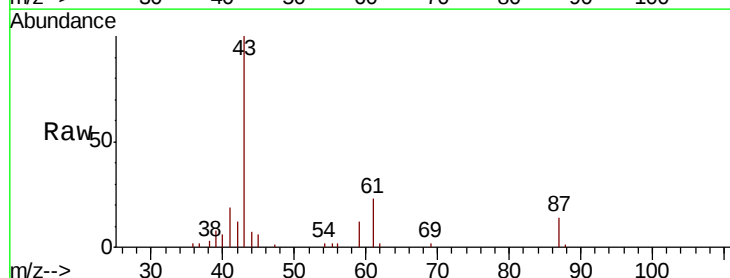
Tgt Ion: 43 Resp: 11853

Ion Ratio Lower Upper

43 100

61 20.7 17.1 25.7

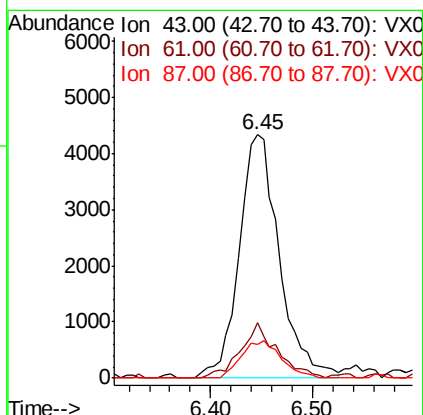
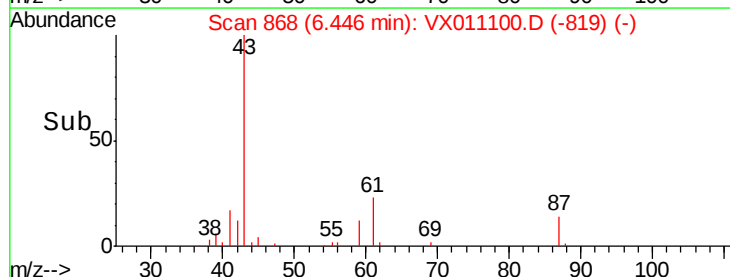
87 15.3 12.0 18.0

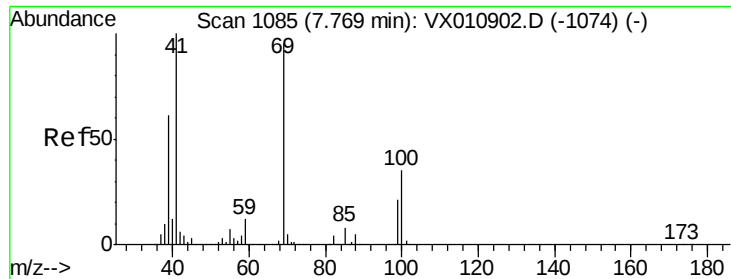


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.583 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.10 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#06

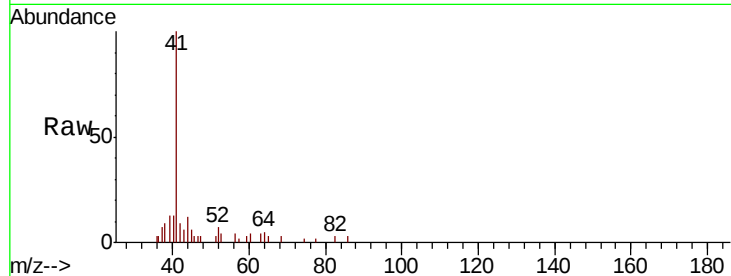
Tot Ion: 41 Resp: 5557

Ion Ratio Lower Upper

41 100

69 0.3 74.4 111.6#

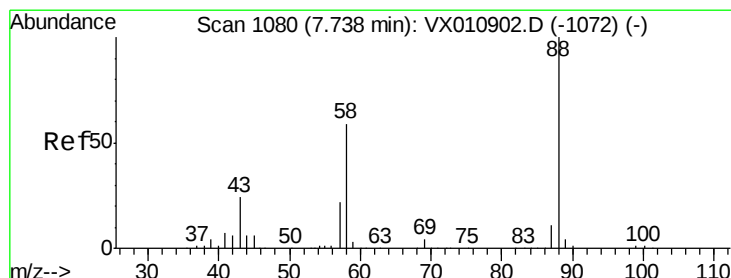
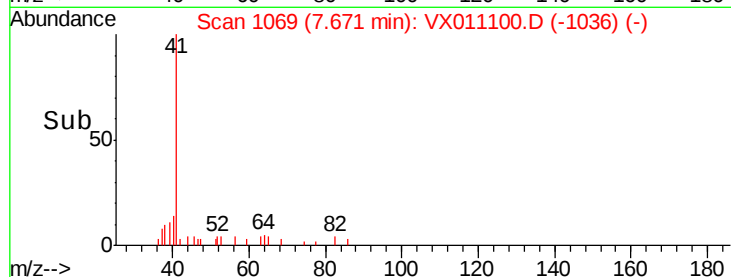
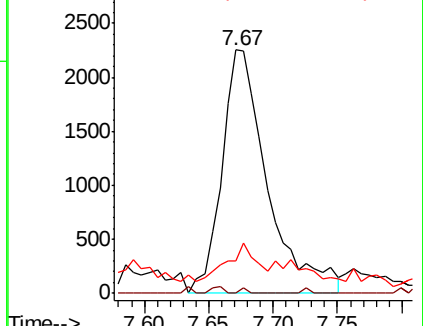
39 0.0 48.9 73.3#



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: 3.091 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.13 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

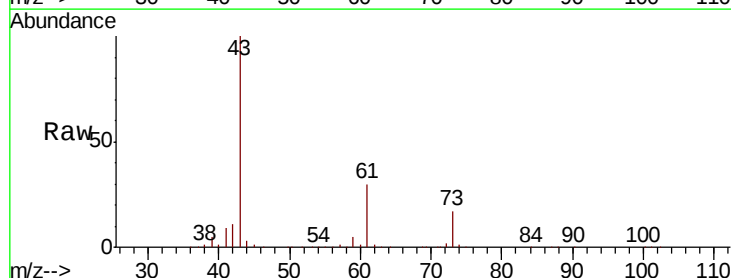
Tgt Ion: 88 Resp: 186

Ion Ratio Lower Upper

88 100

43 435664.5 22.9 34.3#

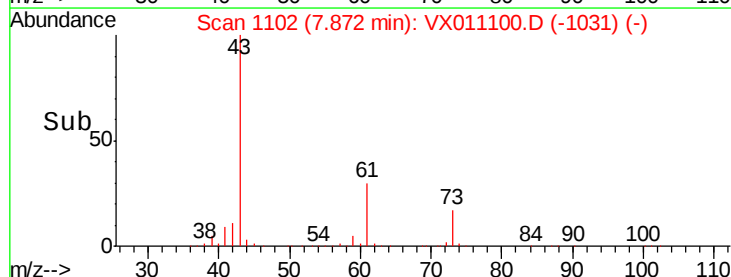
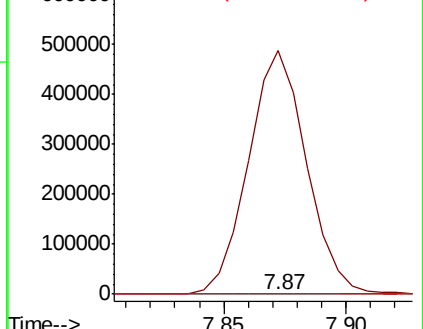
58 2089.2 49.8 74.8#

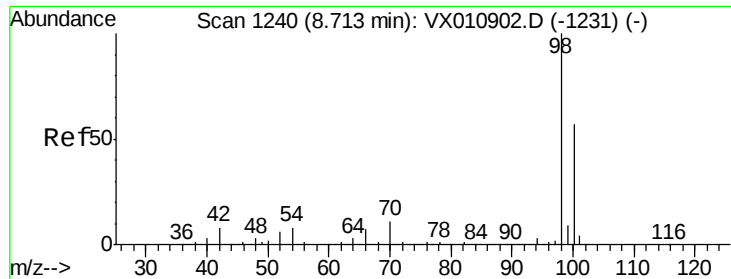


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.406 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

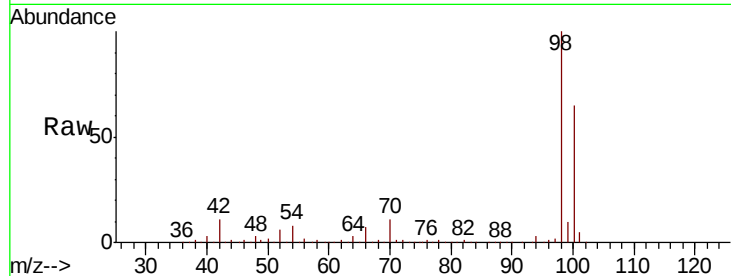
PB121723ZHE#06

Tot Ion: 98 Resp: 398339

Ion Ratio Lower Upper

98 100

100 64.5 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

250000

200000

150000

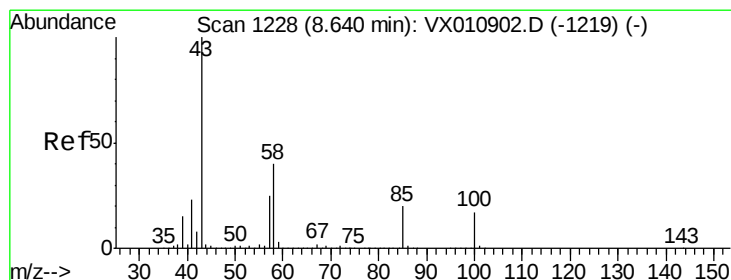
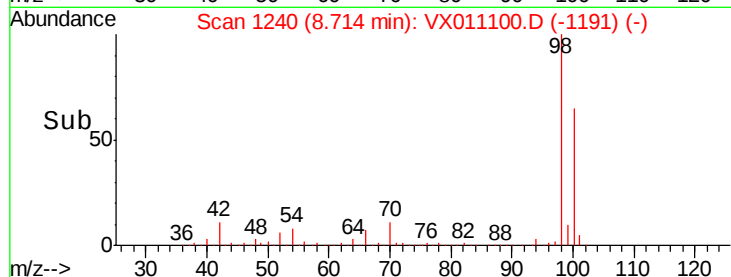
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 20.711 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011100.D

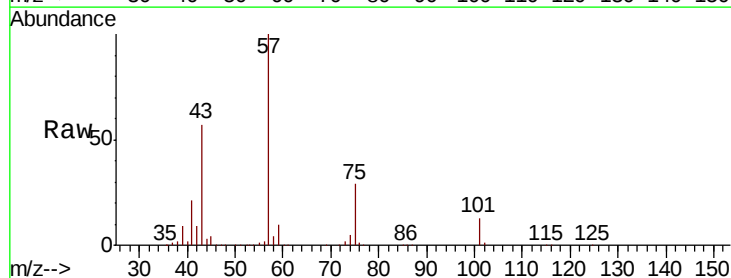
Acq: 26 Jul 2019 18:56

Tgt Ion: 43 Resp: 59286

Ion Ratio Lower Upper

43 100

58 8.6 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.61

40000

30000

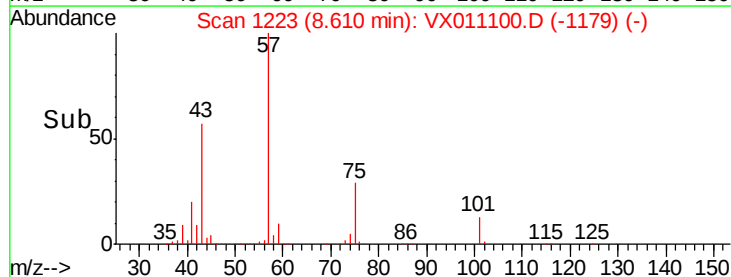
20000

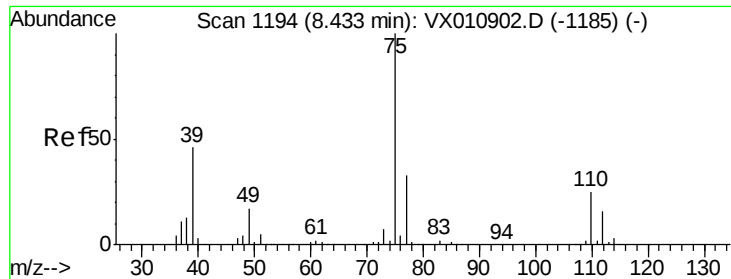
10000

0

Time-->

8.50 8.55 8.60 8.65 8.70



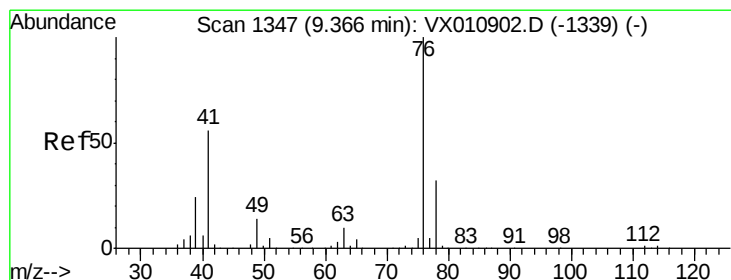
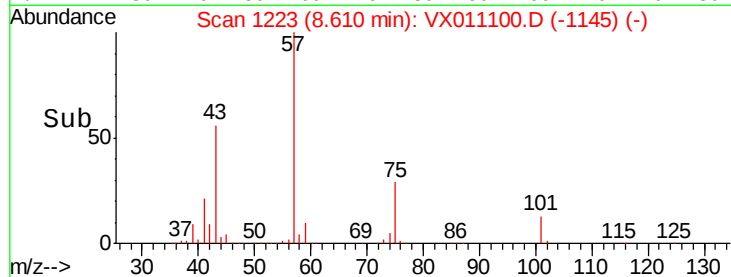
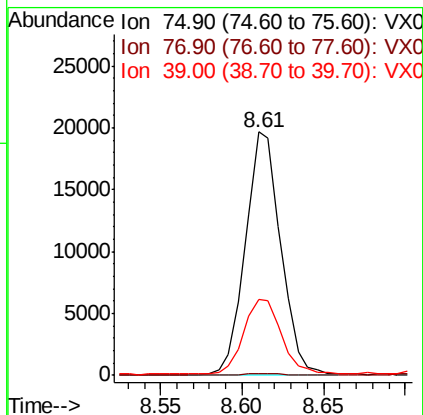
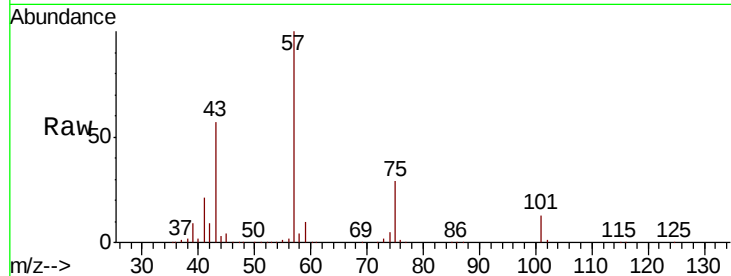


#54

cis-1,3-Dichloropropene
 Concen: 9.571 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011100.D
 Acq: 26 Jul 2019 18:56

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#06

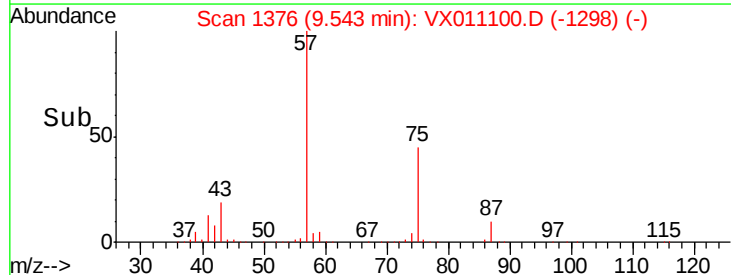
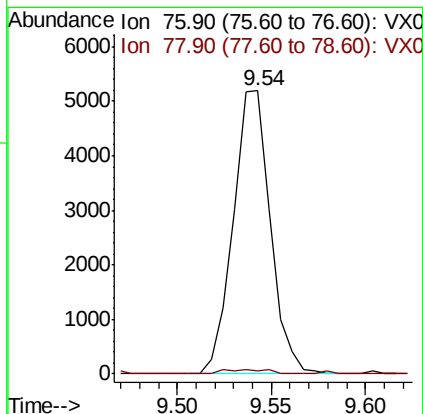
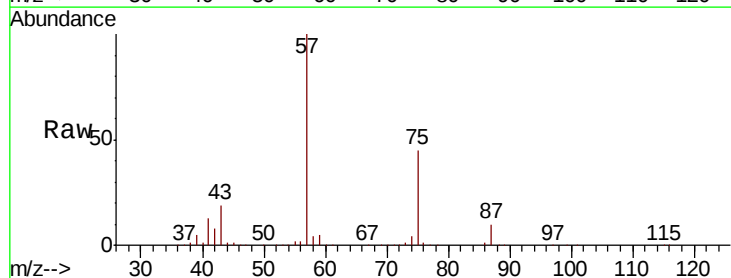
Tot Ion: 75 Resp: 29783
 Ion Ratio Lower Upper
 75 100
 77 1.0 26.1 39.1#
 39 30.8 36.6 54.8#

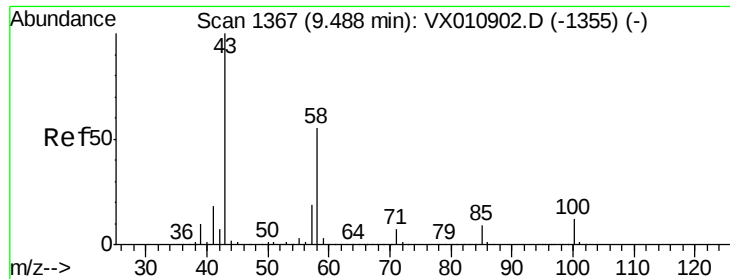


#57

1,3-Dichloropropane
 Concen: 2.060 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.18 min
 Lab File: VX011100.D
 Acq: 26 Jul 2019 18:56

Tgt Ion: 76 Resp: 7101
 Ion Ratio Lower Upper
 76 100
 78 1.7 25.6 38.4#

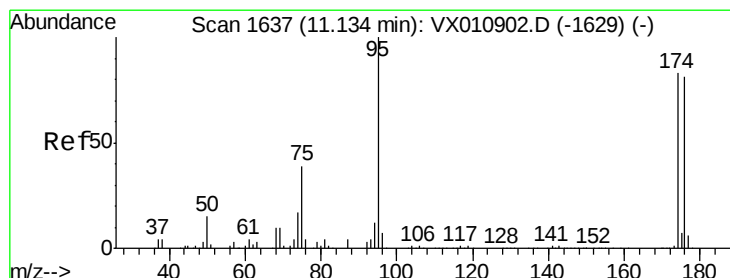
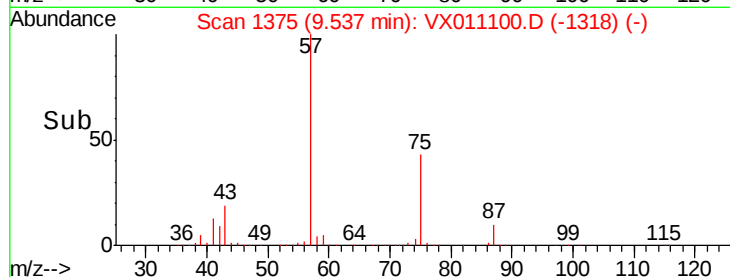
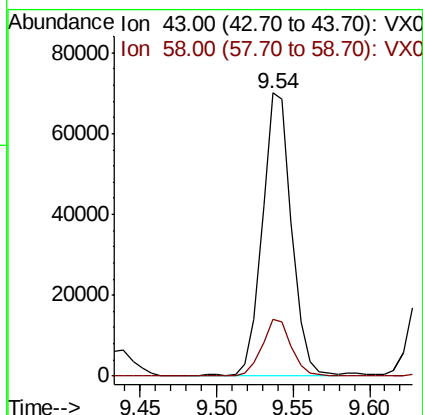
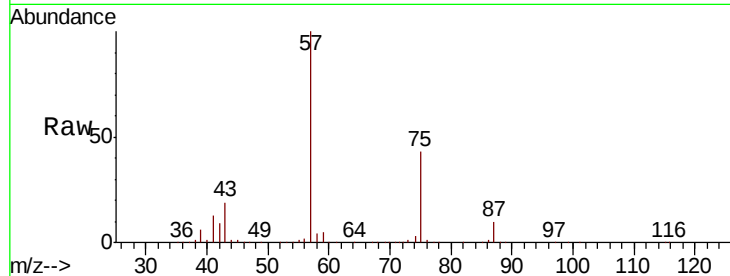




#59
2-Hexanone
Concen: 41.754 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011100.D
Acq: 26 Jul 2019 18:56

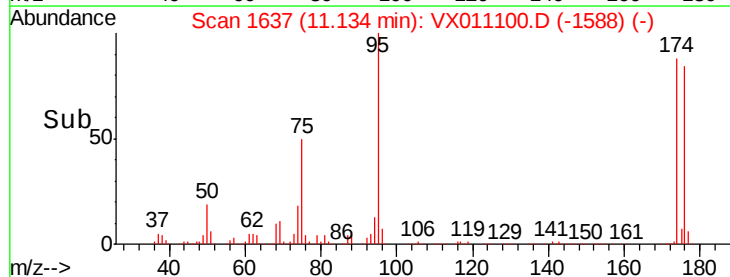
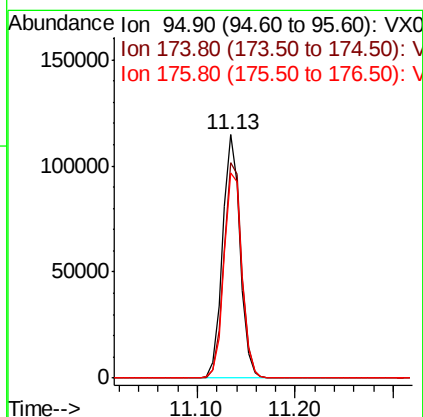
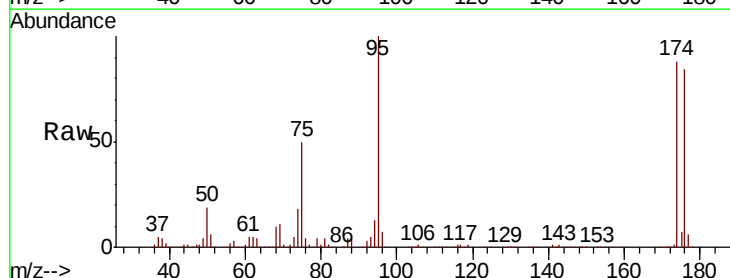
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#06

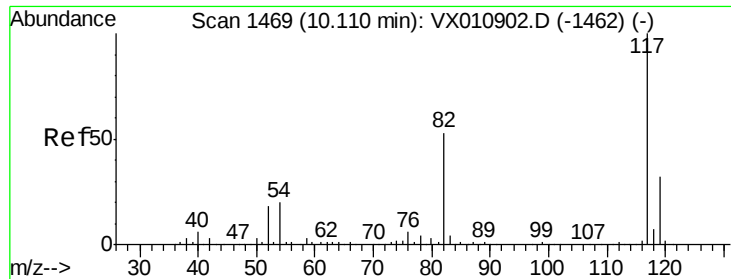
Tot Ion: 43 Resp: 92703
Ion Ratio Lower Upper
43 100
58 20.8 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 50.933 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011100.D
Acq: 26 Jul 2019 18:56

Tgt Ion: 95 Resp: 142301
Ion Ratio Lower Upper
95 100
174 90.8 0.0 180.6
176 86.9 0.0 173.8

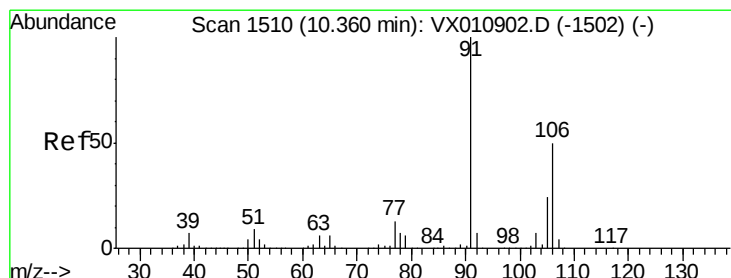
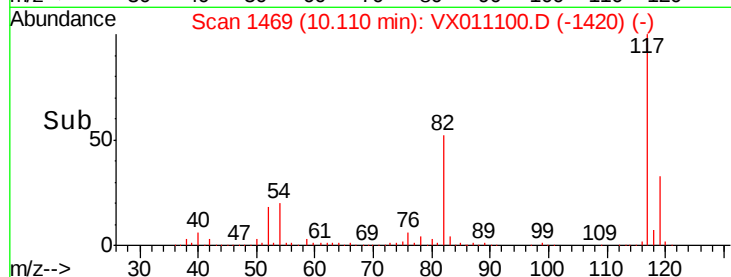
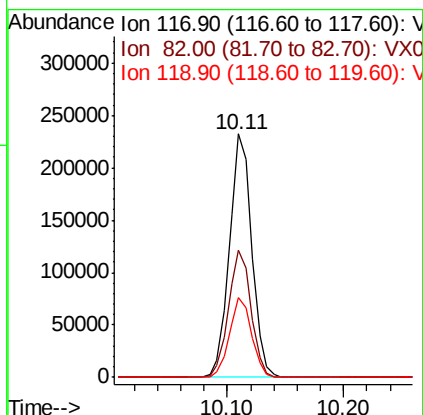
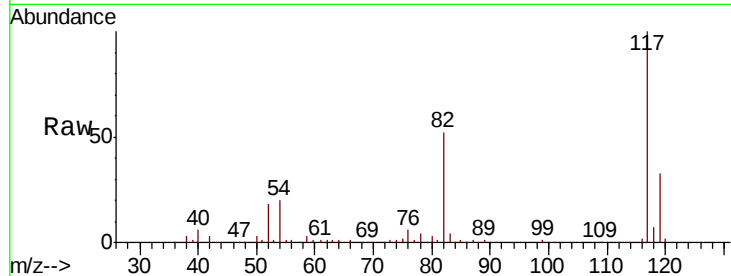




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011100.D
Acq: 26 Jul 2019 18:56

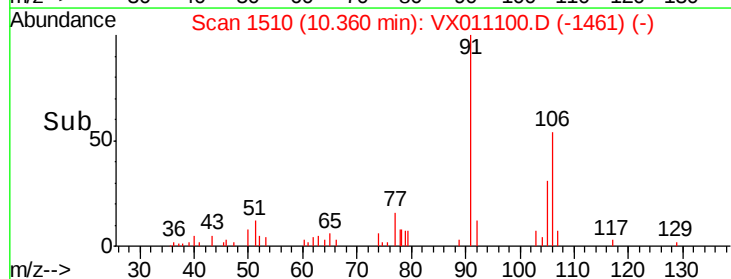
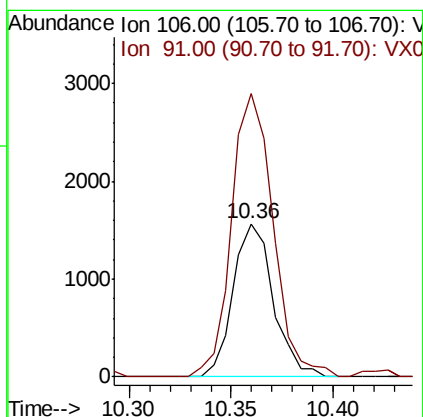
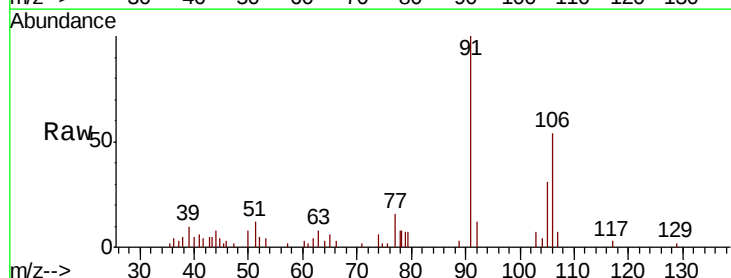
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#06

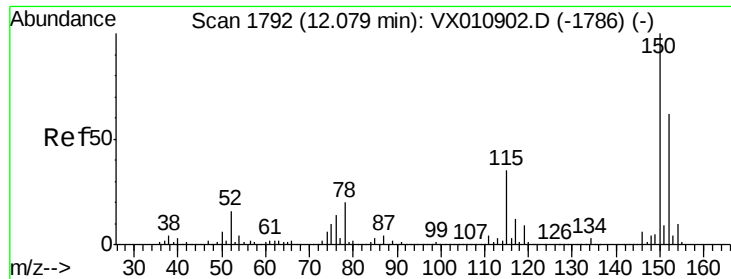
Tot Ion:117 Resp: 310026
Ion Ratio Lower Upper
117 100
82 52.4 42.6 63.8
119 32.5 25.9 38.9



#68
m/p-Xylenes
Concen: 0.513 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX011100.D
Acq: 26 Jul 2019 18:56

Tgt Ion:106 Resp: 2134
Ion Ratio Lower Upper
106 100
91 191.6 160.1 240.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#06

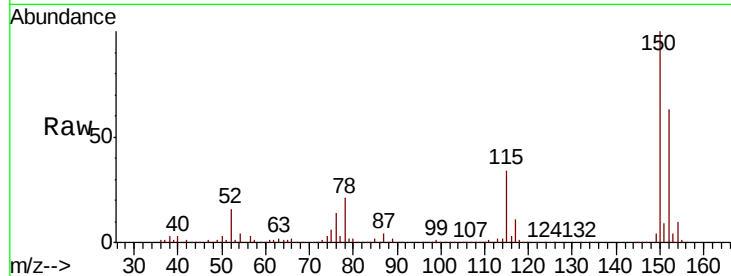
Tot Ion:152 Resp: 144438

Ion Ratio Lower Upper

152 100

115 55.8 39.7 119.1

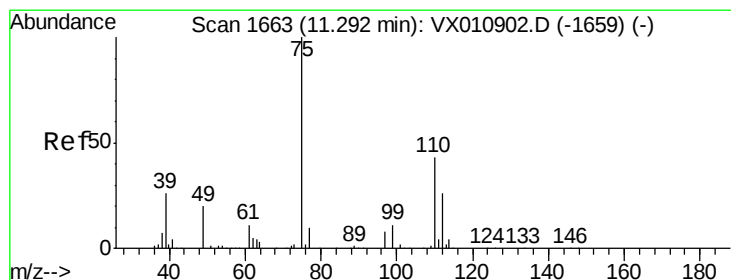
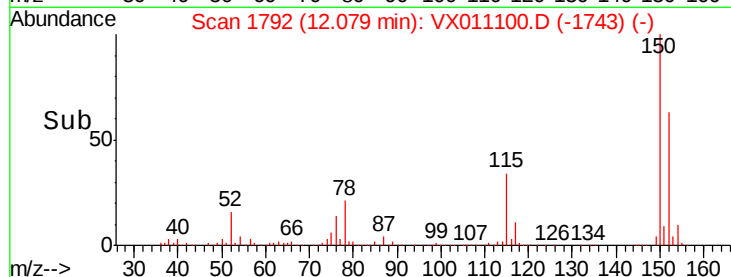
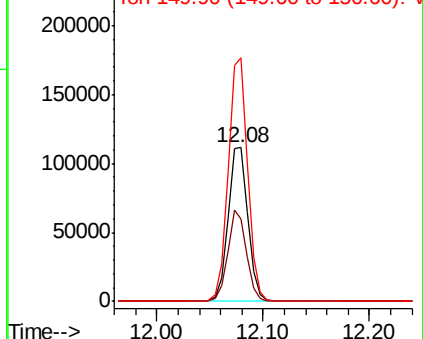
150 156.2 0.0 345.6



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: 27.392 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011100.D

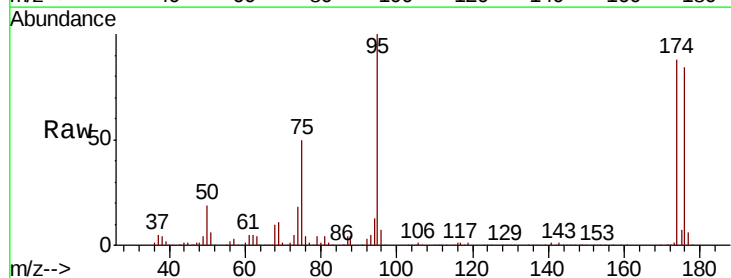
Acq: 26 Jul 2019 18:56

Tgt Ion: 75 Resp: 71395

Ion Ratio Lower Upper

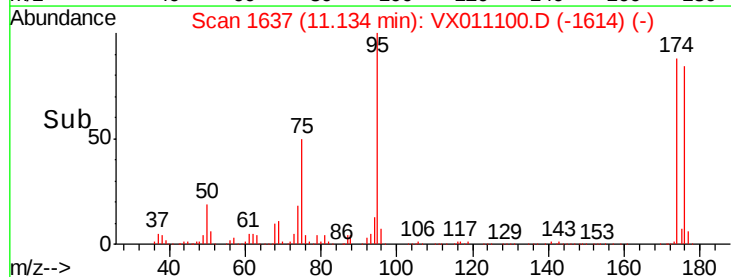
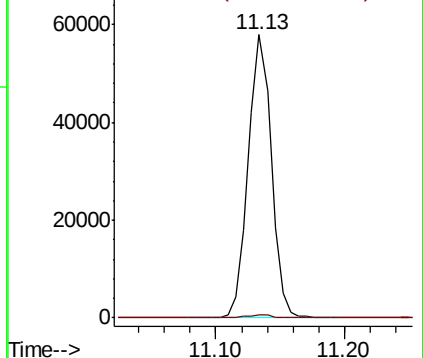
75 100

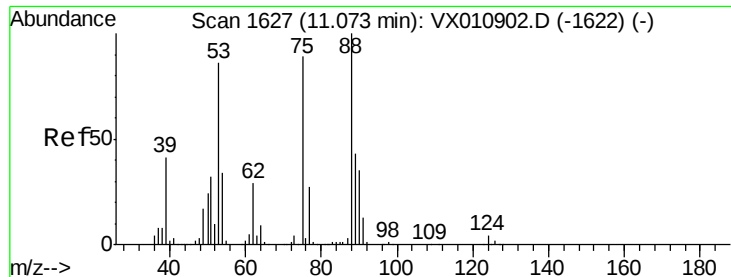
77 1.3 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.854 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011100.D

Acq: 26 Jul 2019 18:56

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#06

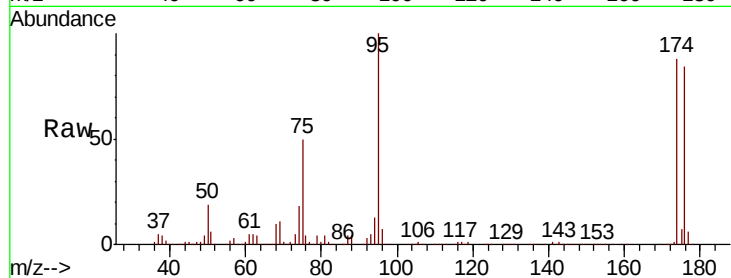
Tot Ion: 75 Resp: 71395

Ion Ratio Lower Upper

75 100

53 0.1 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

