

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\
 Data File : VX011099.D
 Acq On : 26 Jul 2019 18:32
 Operator : JC/SP
 Sample : PB121723ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#05

Quant Time: Jul 27 02:04:58 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	194073	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	309181	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	297429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136626	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	105200	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
35) Dibromofluoromethane	5.50	113	96597	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
50) Toluene-d8	8.71	98	380288	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
62) 4-Bromofluorobenzene	11.13	95	133418	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	

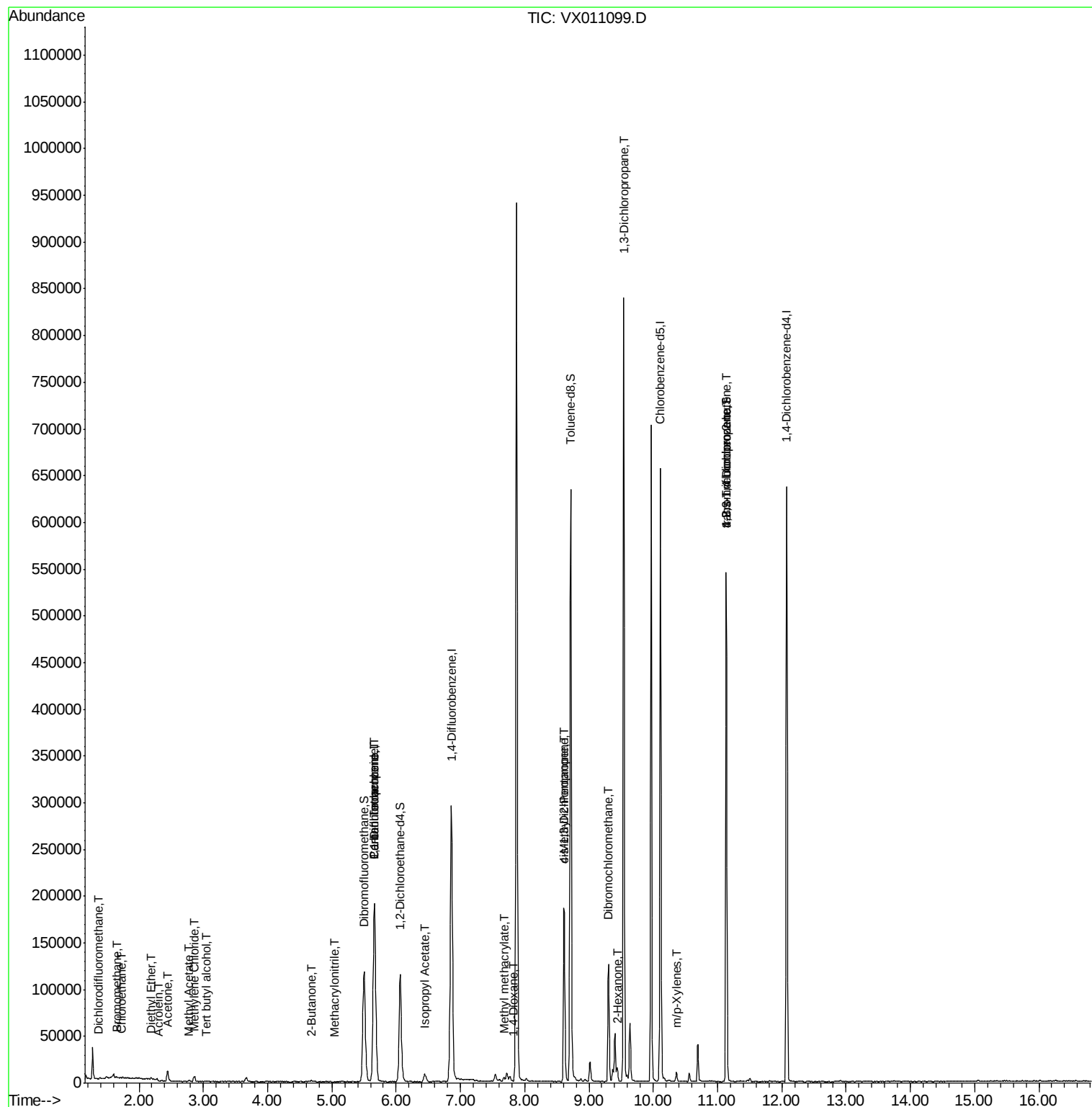
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.37	85	23	0.557	ug/l #	43
5) Bromomethane	1.66	94	269	0.262	ug/l #	69
6) Chloroethane	1.72	64	270	0.233	ug/l #	41
8) Diethyl Ether	2.19	74	283	0.267	ug/l	63
11) Tert butyl alcohol	3.04	59	240	0.499	ug/l #	1
13) Acrolein	2.31	56	231	0.832	ug/l	97
16) Acetone	2.45	43	12513	13.419	ug/l	95
18) Methyl Acetate	2.78	43	1329	0.626	ug/l #	80
20) Methylene Chloride	2.86	84	2727	1.380	ug/l #	83
25) 2-Butanone	4.68	43	2302	1.720	ug/l	94
36) 1,1-Dichloropropene	5.67	75	13061	5.143	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18008	6.805	ug/l #	16
41) Methacrylonitrile	5.03	41	350	0.237	ug/l #	51
43) Isopropyl Acetate	6.45	43	11540	2.699	ug/l	99
48) Methyl methacrylate	7.68	41	5366	2.576	ug/l #	10
49) 1,4-Dioxane	7.82	88	23	0.395	ug/l #	28
51) 4-Methyl-2-Pentanone	8.61	43	60038	21.660	ug/l #	48
54) cis-1,3-Dichloropropene	8.61	75	31281	10.381	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	7340	2.199	ug/l #	43
59) 2-Hexanone	9.44	43	8172	3.801	ug/l #	23
60) Dibromochloromethane	9.30	129	44	2.545	ug/l	63
68) m/p-Xylenes	10.36	106	2038	0.511	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	67121	27.224	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	67121	67.464	ug/l #	11

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
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: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

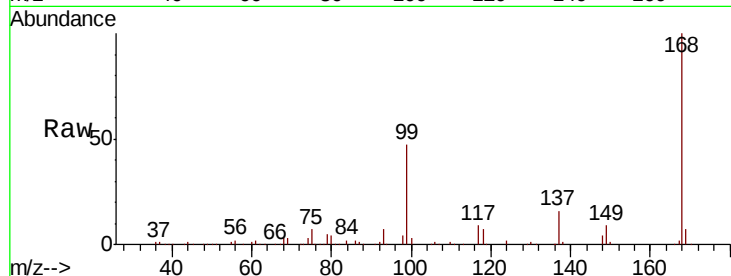
PB121723ZHE#05

Tot Ion:168 Resp: 194073

Ion Ratio Lower Upper

168 100

99 47.3 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

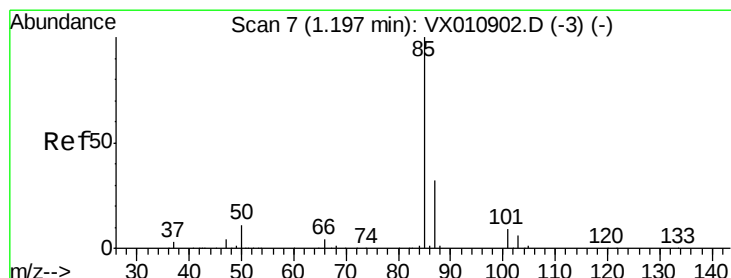
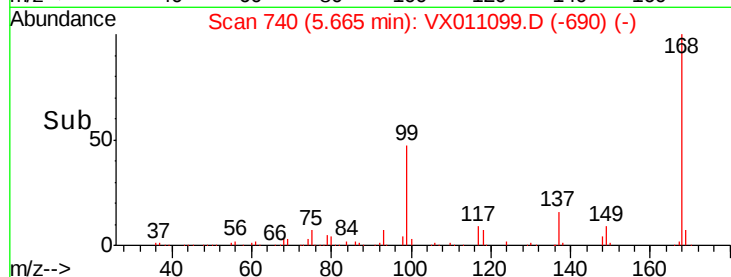
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.557 ug/l

RT: 1.37 min Scan# 35

Delta R.T. 0.17 min

Lab File: VX011099.D

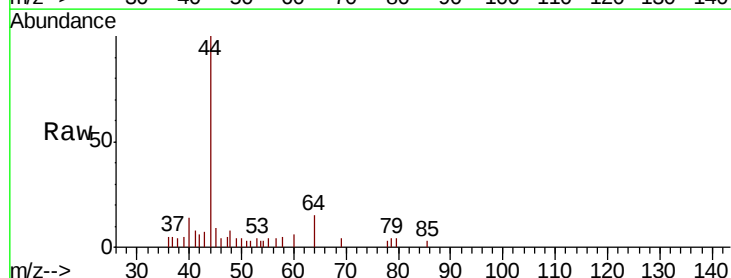
Acq: 26 Jul 2019 18:32

Tgt Ion: 85 Resp: 23

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

1.37

60

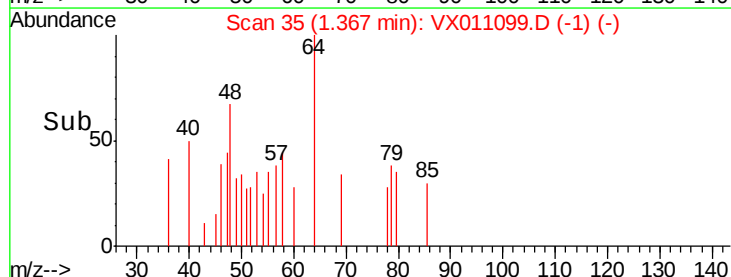
40

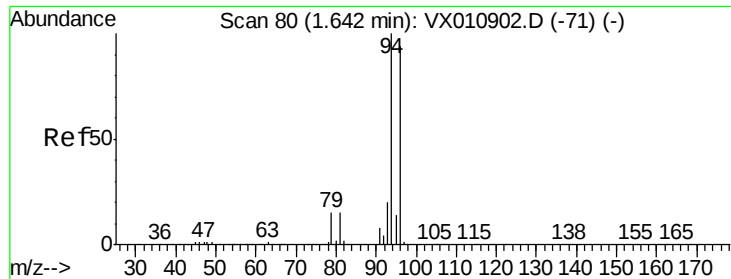
20

0

Time-->

1.35 1.36 1.37 1.38





#5

Bromomethane

Concen: 0.262 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

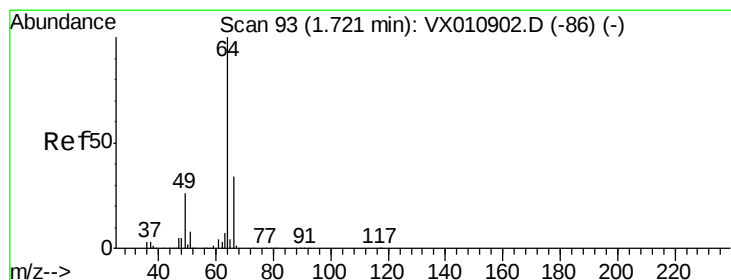
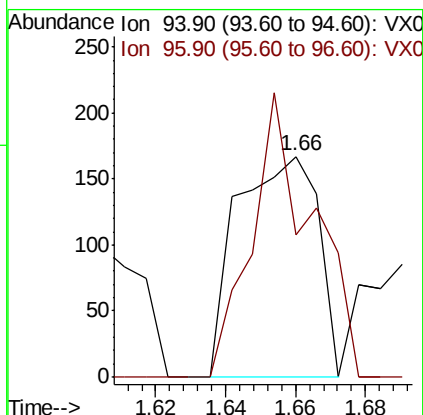
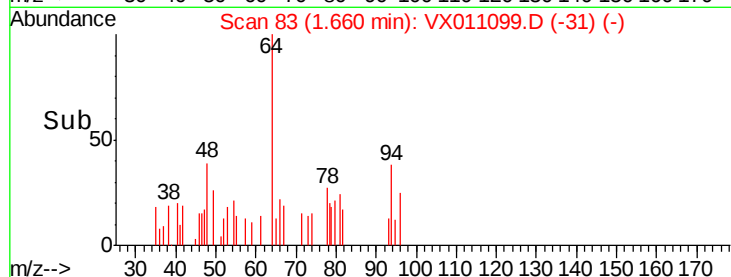
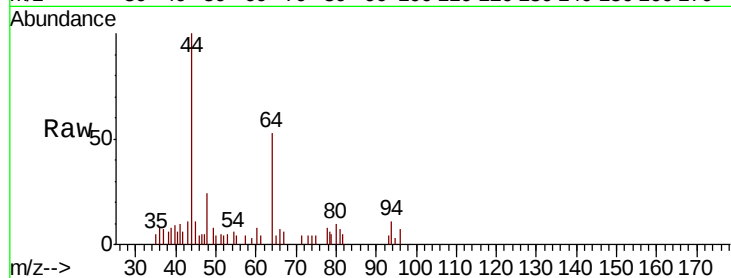
PB121723ZHE#05

Tot Ion: 94 Resp: 269

Ion Ratio Lower Upper

94 100

96 64.7 75.6 113.4#



#6

Chloroethane

Concen: 0.233 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX011099.D

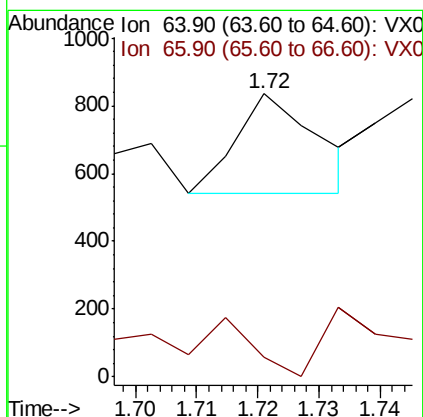
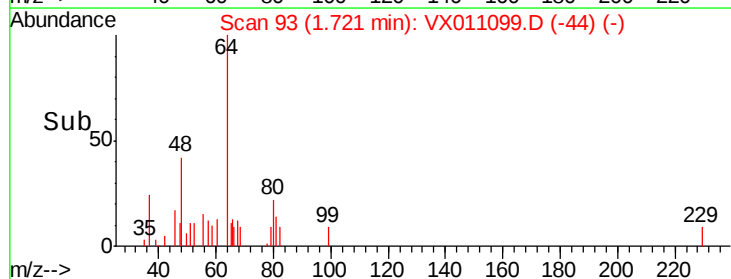
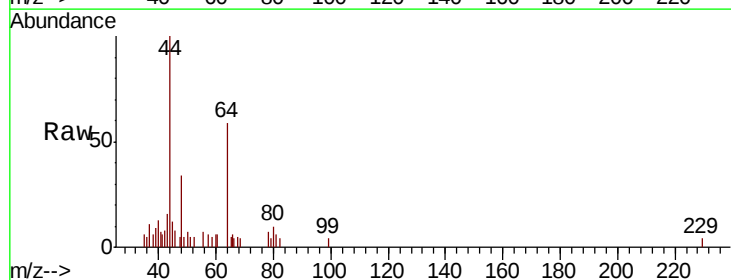
Acq: 26 Jul 2019 18:32

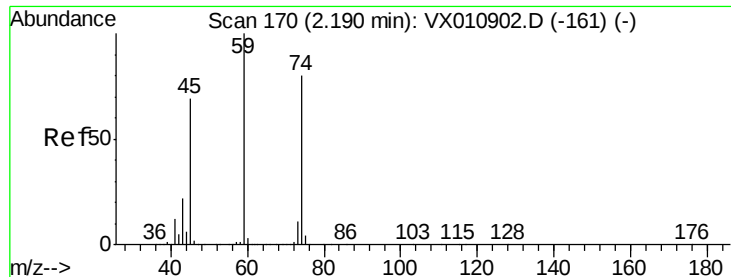
Tgt Ion: 64 Resp: 270

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.6#





#8

Diethyl Ether

Concen: 0.267 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

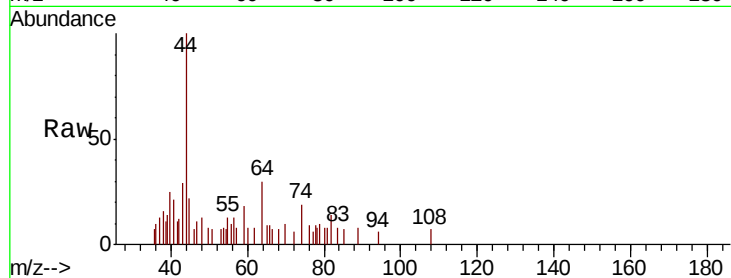
PB121723ZHE#05

Tot Ion: 74 Resp: 283

Ion Ratio Lower Upper

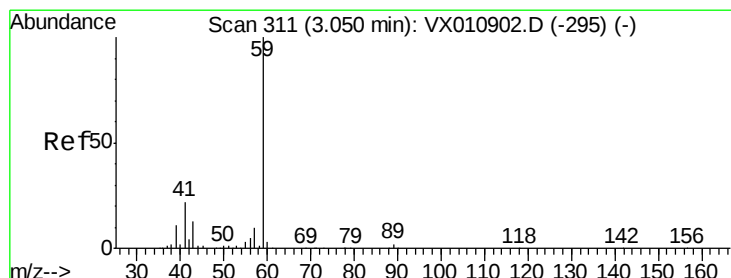
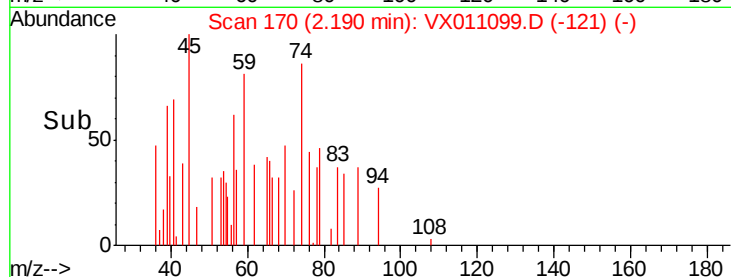
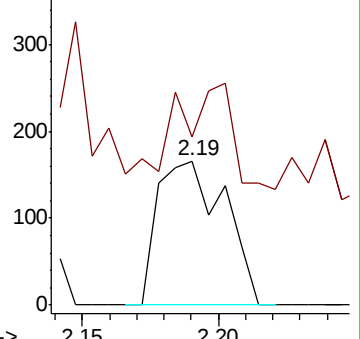
74 100

45 55.5 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: 0.499 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX011099.D

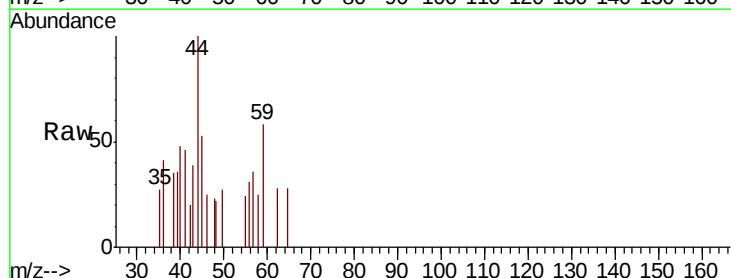
Acq: 26 Jul 2019 18:32

Tgt Ion: 59 Resp: 240

Ion Ratio Lower Upper

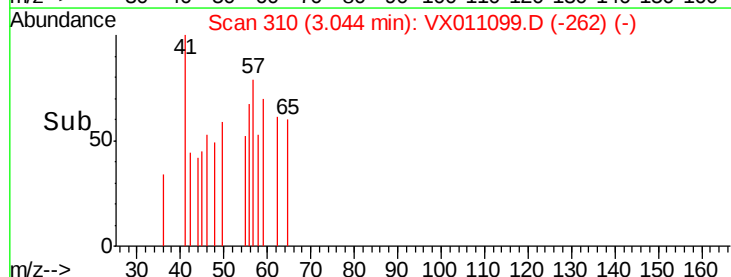
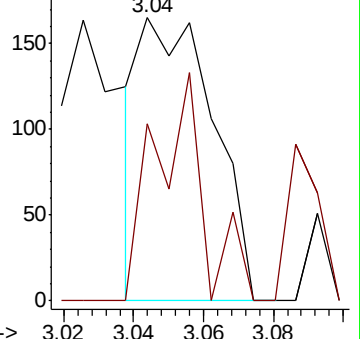
59 100

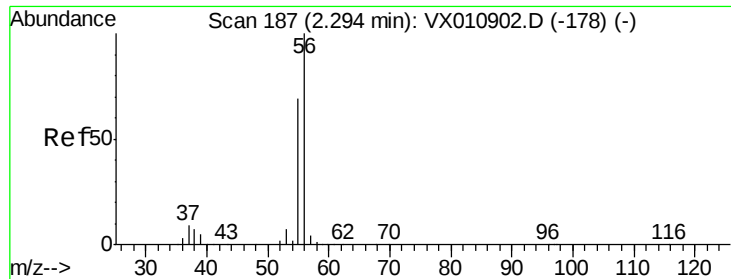
57 53.8 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.832 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

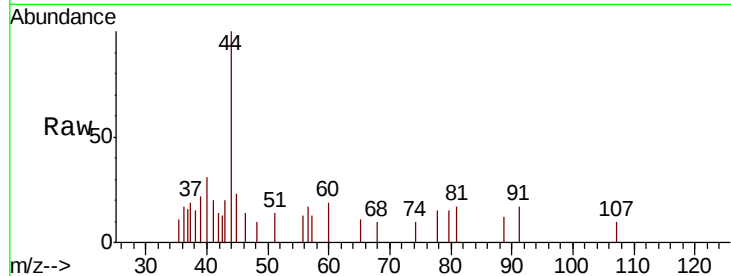
PB121723ZHE#05

Tot Ion: 56 Resp: 231

Ion Ratio Lower Upper

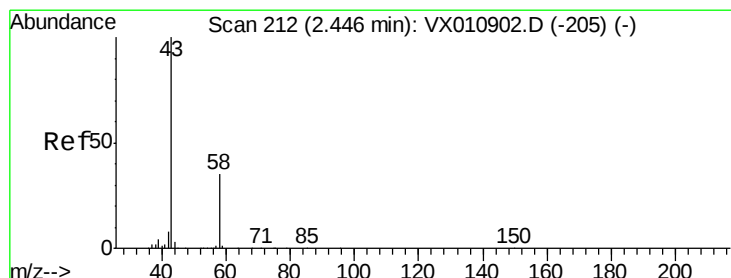
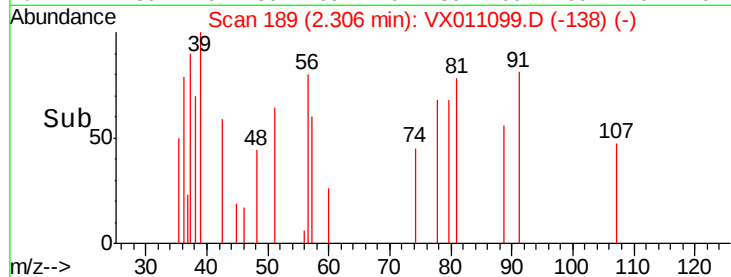
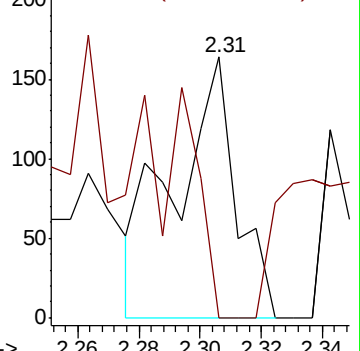
56 100

55 67.1 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 13.419 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX011099.D

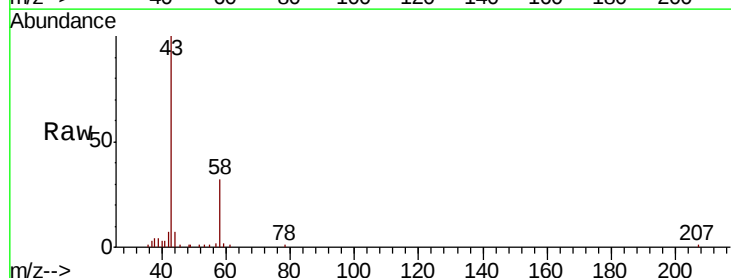
Acq: 26 Jul 2019 18:32

Tgt Ion: 43 Resp: 12513

Ion Ratio Lower Upper

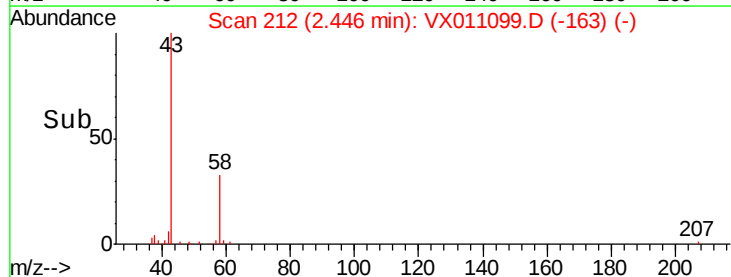
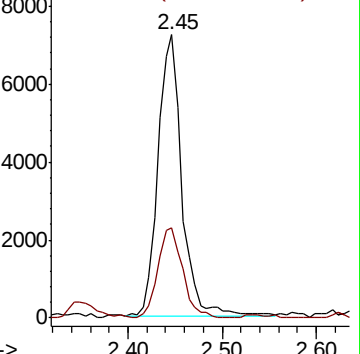
43 100

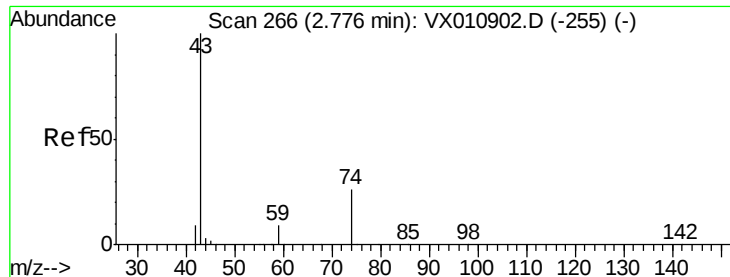
58 31.6 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

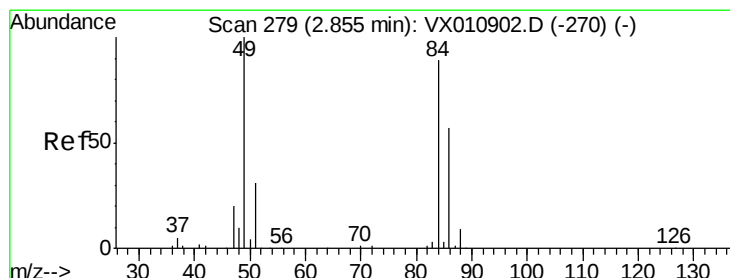
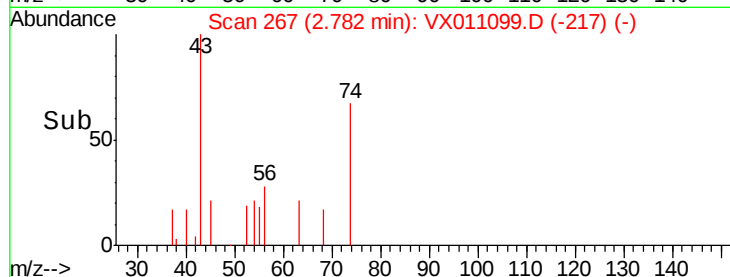
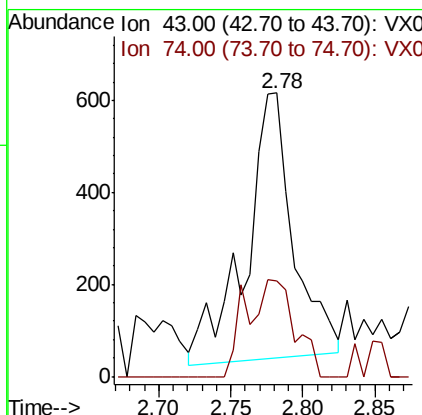
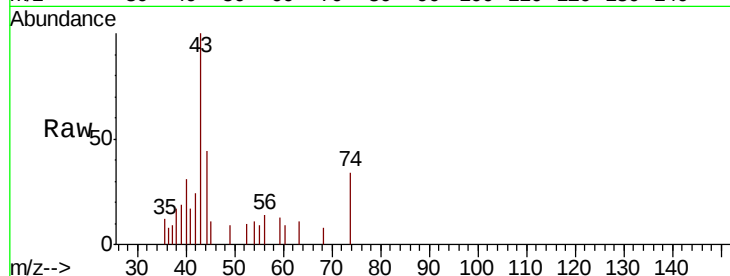




#18
Methyl Acetate
Concen: 0.626 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

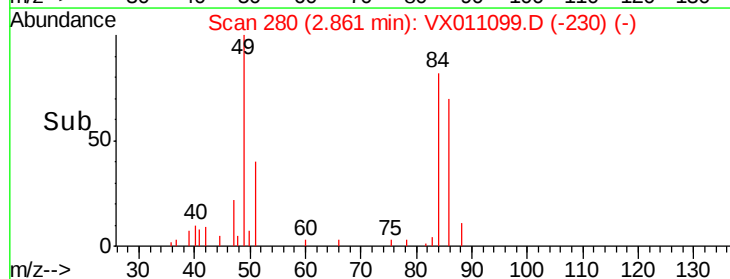
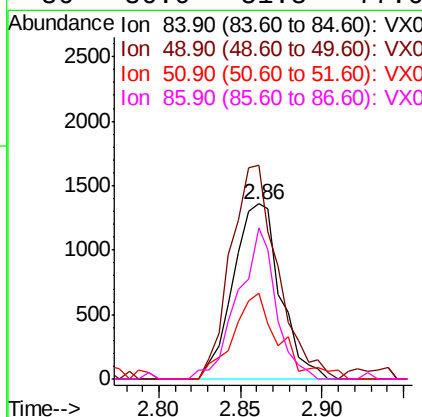
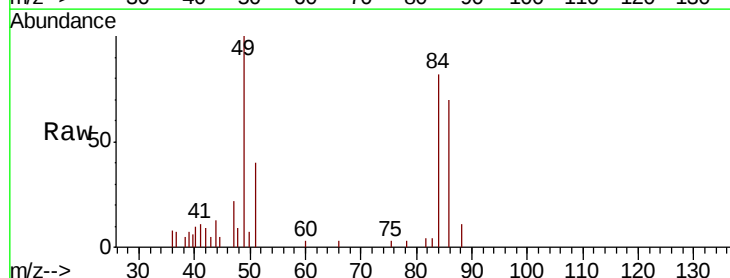
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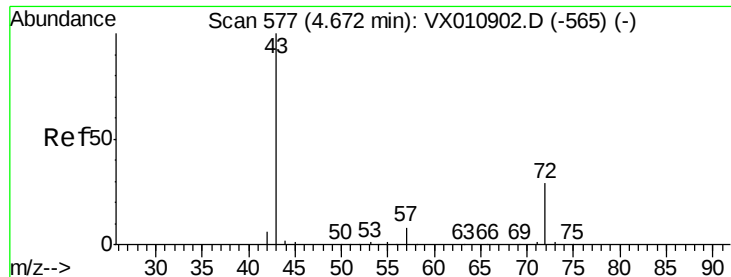
Tot Ion: 43 Resp: 1329
Ion Ratio Lower Upper
43 100
74 37.2 21.5 32.3#



#20
Methylene Chloride
Concen: 1.380 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

Tgt Ion: 84 Resp: 2727
Ion Ratio Lower Upper
84 100
49 122.1 89.9 134.9
51 49.0 27.8 41.6#
86 86.0 51.8 77.6#





#25

2-Butanone

Concen: 1.720 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

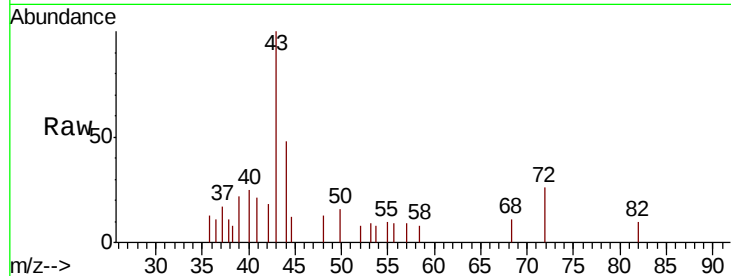
PB121723ZHE#05

Tot Ion: 43 Resp: 2302

Ion Ratio Lower Upper

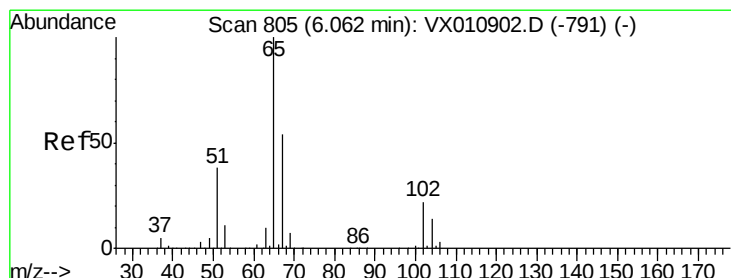
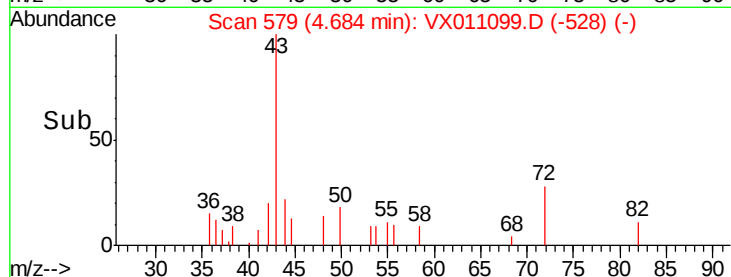
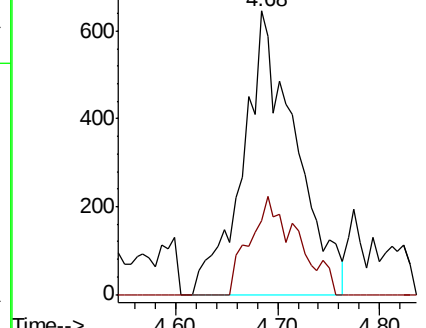
43 100

72 25.9 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.953 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX011099.D

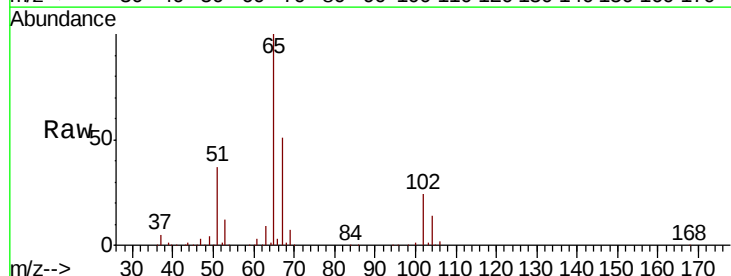
Acq: 26 Jul 2019 18:32

Tgt Ion: 65 Resp: 105200

Ion Ratio Lower Upper

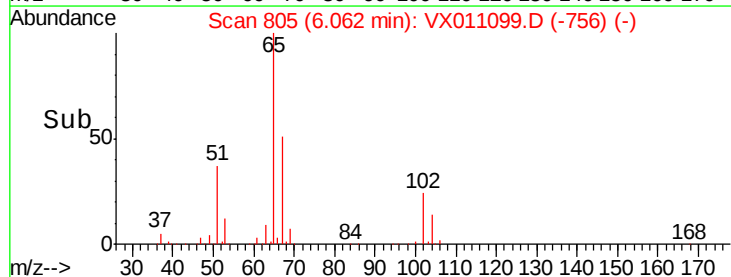
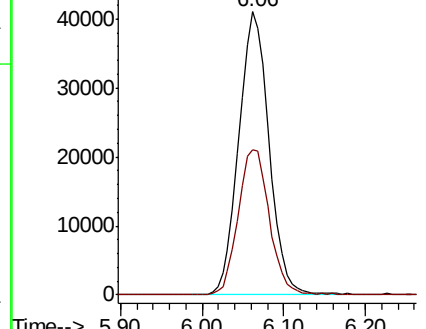
65 100

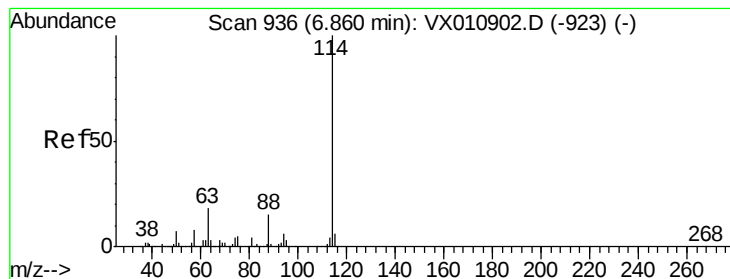
67 53.0 0.0 107.8



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: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#05

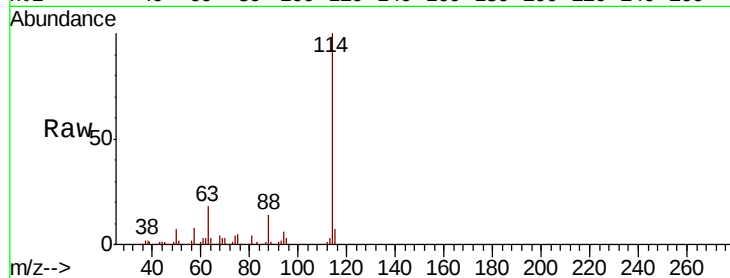
Tot Ion:114 Resp: 309181

Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

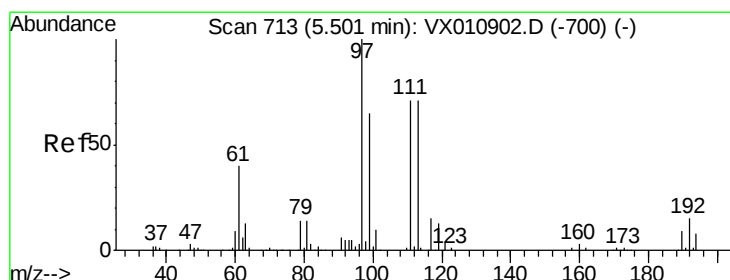
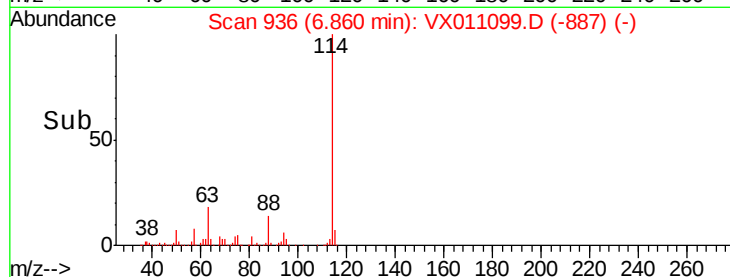
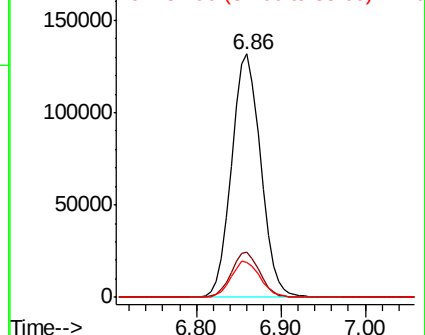
88 14.5 0.0 29.8



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: 49.223 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

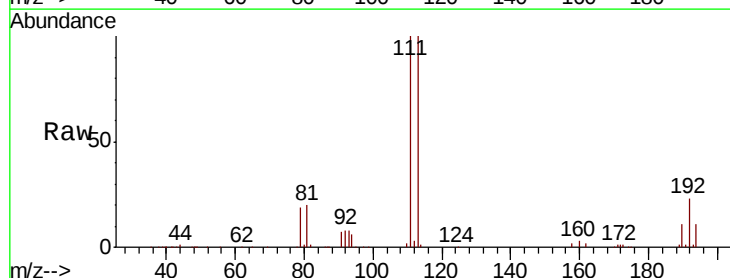
Tgt Ion:113 Resp: 96597

Ion Ratio Lower Upper

113 100

111 103.2 82.3 123.5

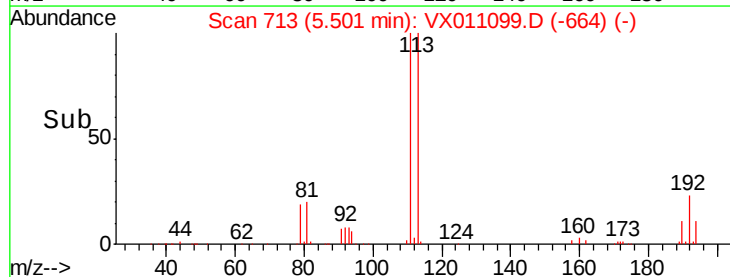
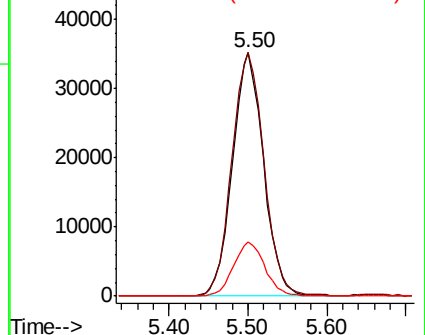
192 22.3 17.4 26.2

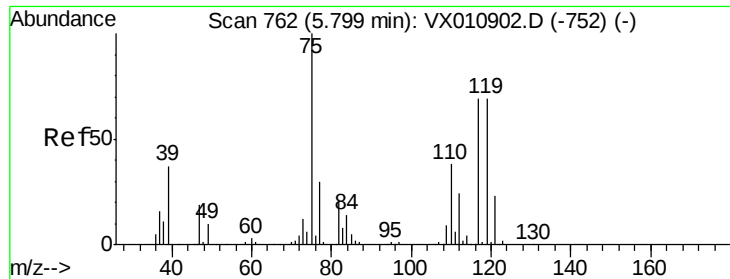


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.143 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#05

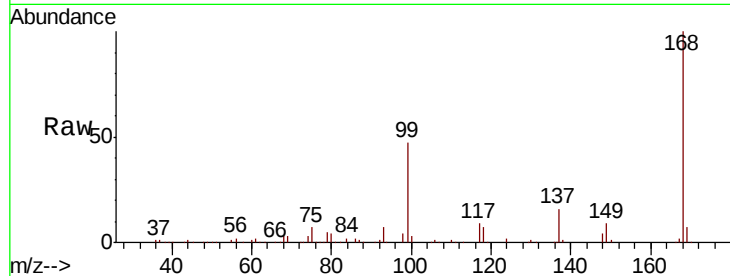
Tot Ion: 75 Resp: 13061

Ion Ratio Lower Upper

75 100

110 10.5 19.9 59.7#

77 0.2 25.0 37.4#

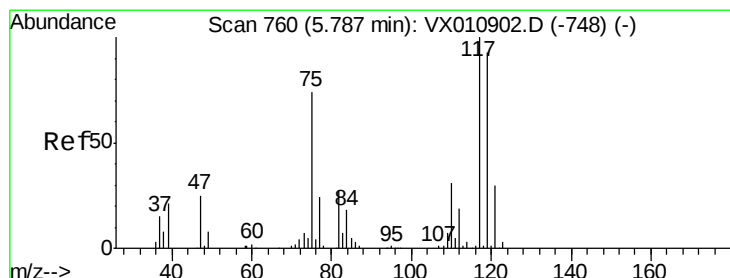
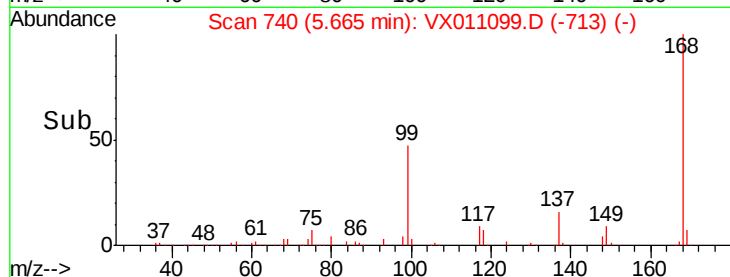


Abundance Ion 74.90 (74.60 to 75.60): VX011099.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX011099.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX011099.D (-713) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.805 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

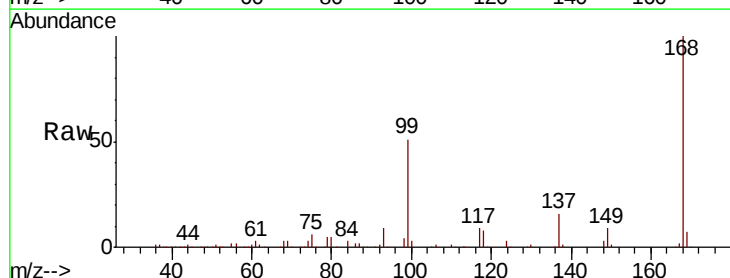
Tgt Ion: 117 Resp: 18008

Ion Ratio Lower Upper

117 100

119 3.9 74.2 111.2#

121 0.0 24.2 36.2#

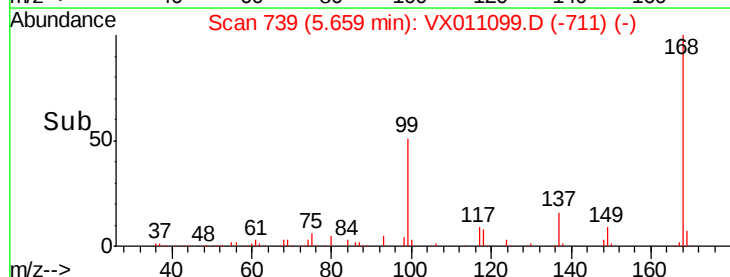


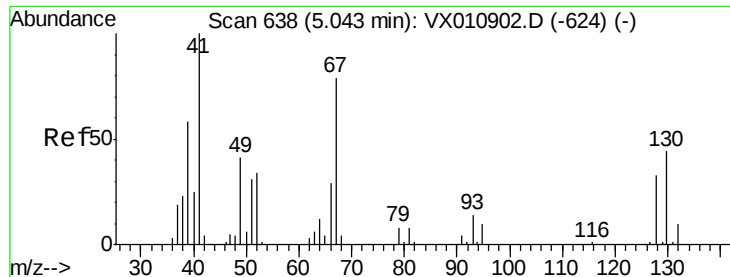
Abundance Ion 116.80 (116.50 to 117.50): VX011099.D (-711) (-)

Ion 118.80 (118.50 to 119.50): VX011099.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX011099.D (-711) (-)

Time-->





#41

Methacrylonitrile

Concen: 0.237 ug/l

RT: 5.03 min Scan# 636

Delta R.T. -0.01 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#05

Tot Ion: 41 Resp: 350

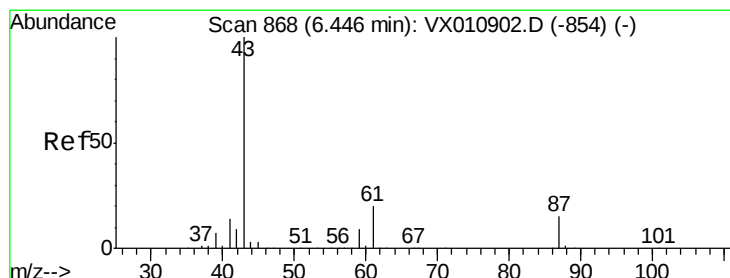
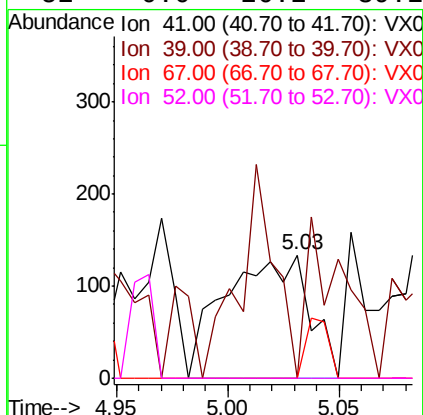
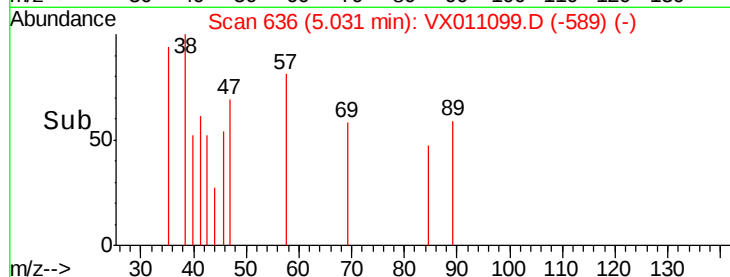
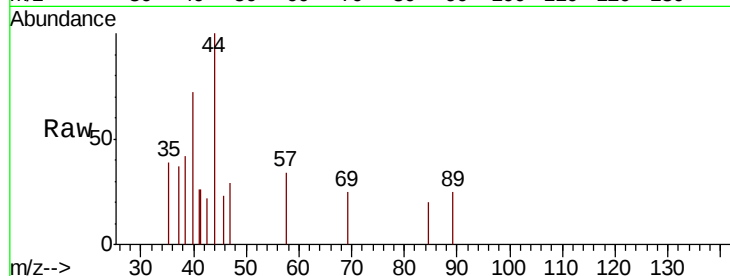
Ion Ratio Lower Upper

41 100

39 58.0 45.4 68.2

67 13.1 65.9 98.9#

52 0.0 26.2 39.2#



#43

Isopropyl Acetate

Concen: 2.699 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.00 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

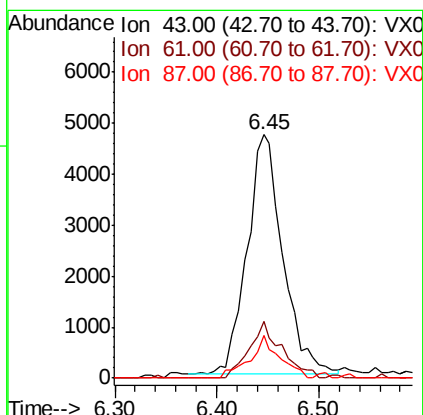
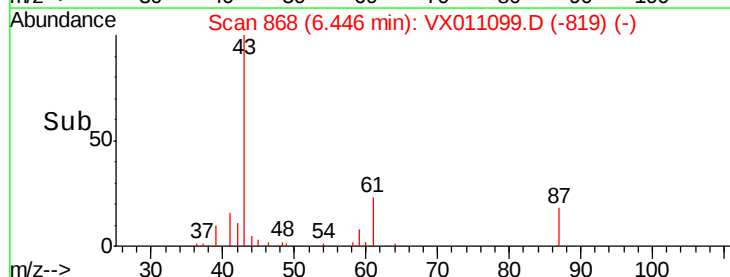
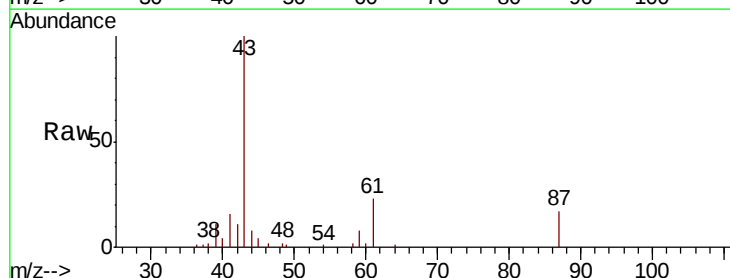
Tgt Ion: 43 Resp: 11540

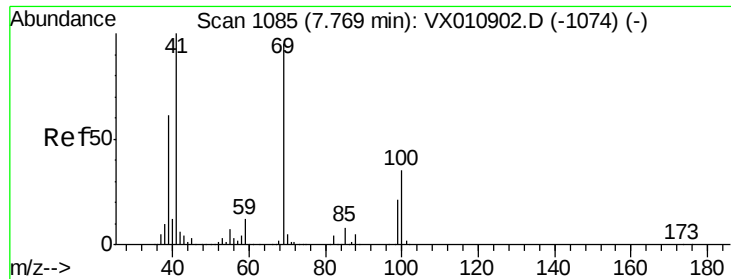
Ion Ratio Lower Upper

43 100

61 21.3 17.1 25.7

87 14.6 12.0 18.0

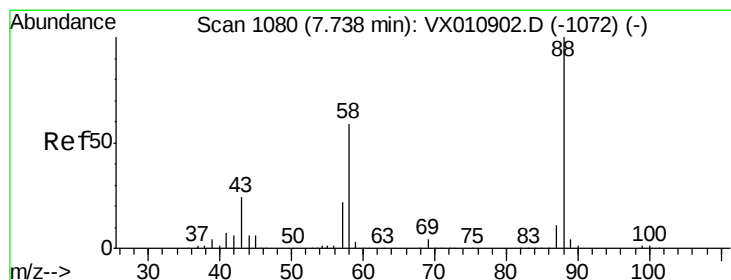
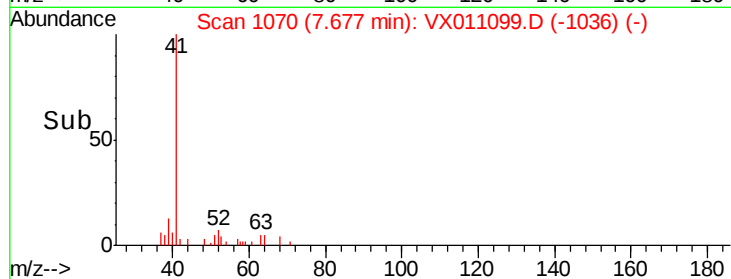
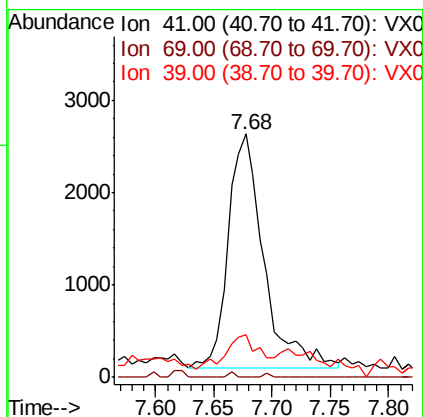
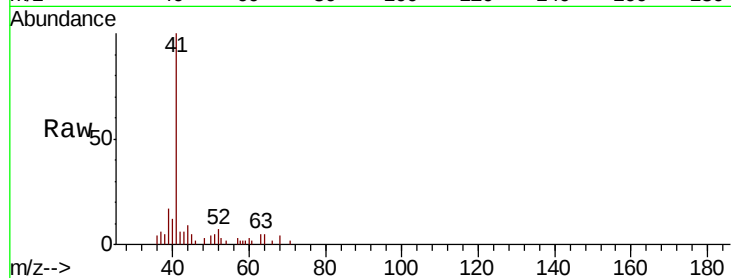




#48
Methvl methacrylate
Concen: 2.576 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

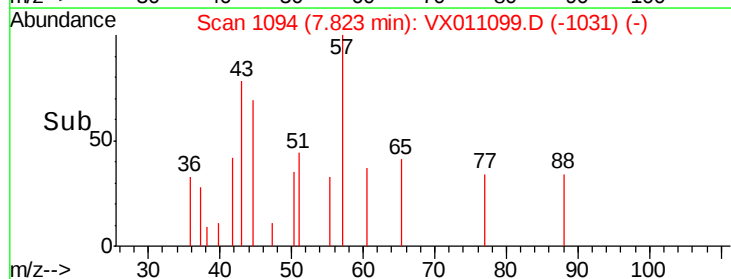
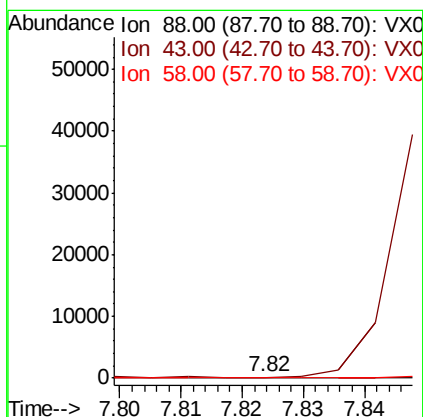
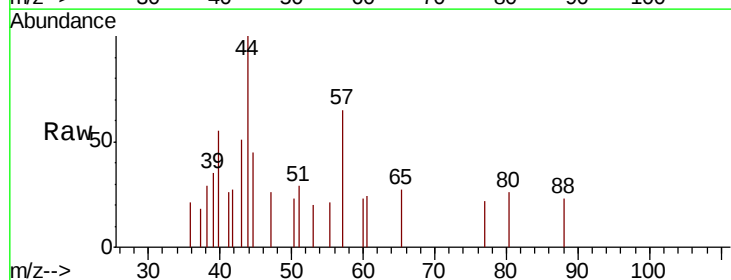
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#05

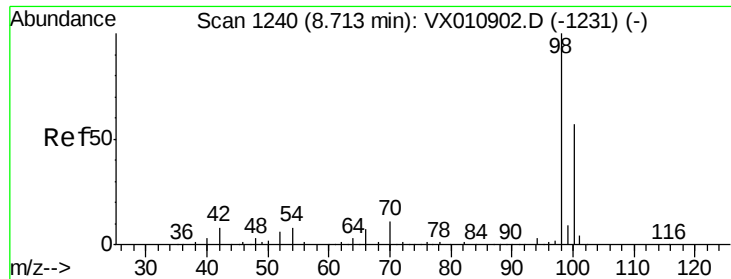
Tot Ion: 41 Resp: 5366
Ion Ratio Lower Upper
41 100
69 0.4 74.4 111.6#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.395 ug/l
RT: 7.82 min Scan# 1094
Delta R.T. 0.09 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 0.0 49.8 74.8#

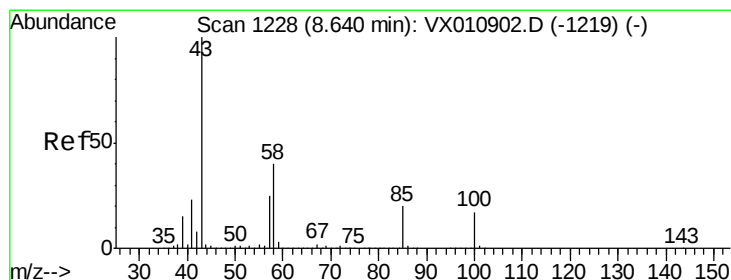
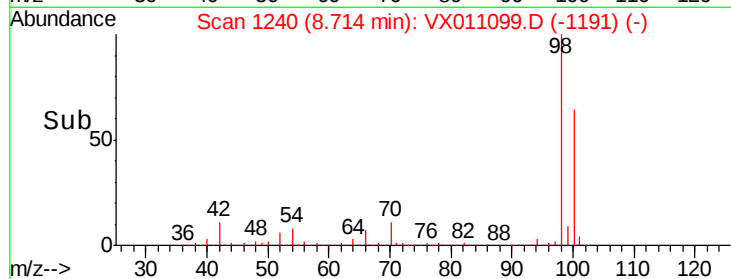
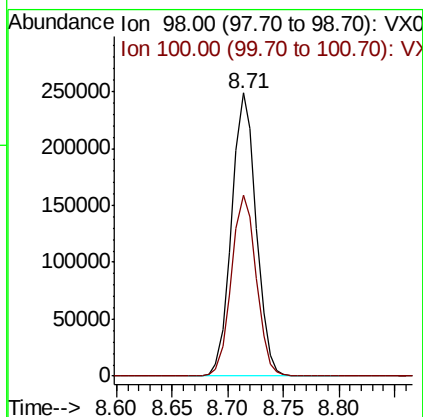
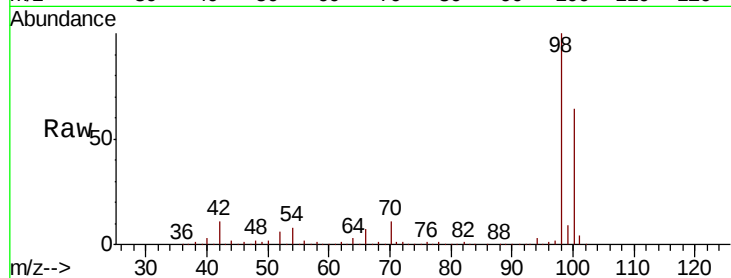




#50
Toluene-d8
Concen: 51.667 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

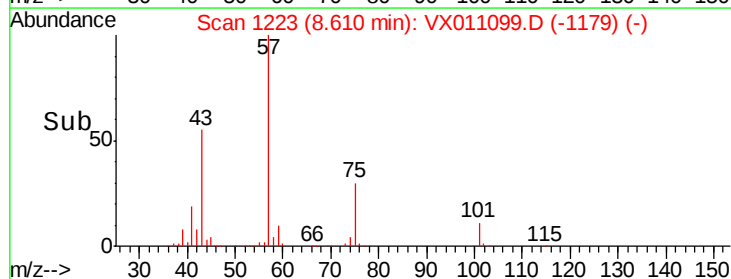
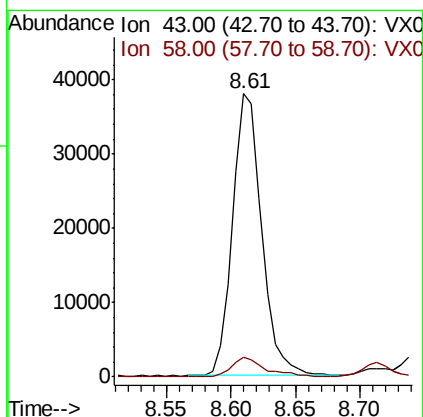
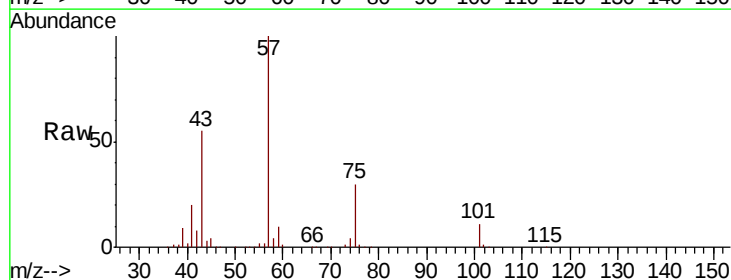
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#05

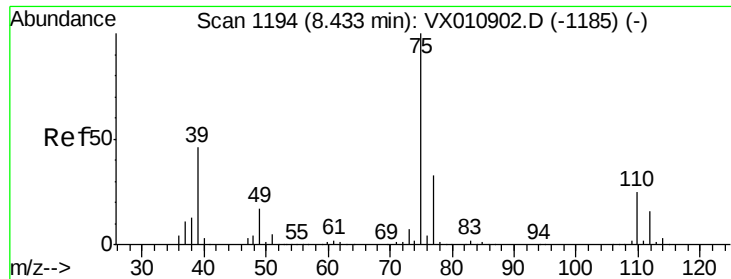
Tot Ion: 98 Resp: 380288
Ion Ratio Lower Upper
98 100
100 64.7 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 21.660 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

Tgt Ion: 43 Resp: 60038
Ion Ratio Lower Upper
43 100
58 8.0 32.2 48.4#



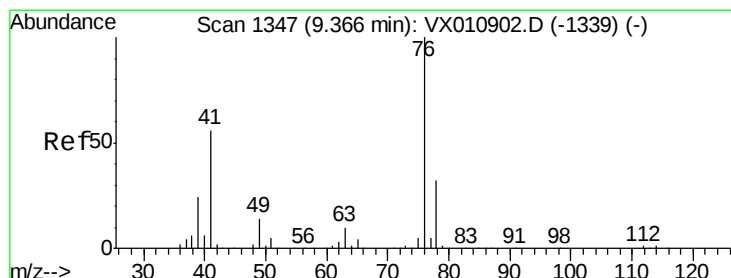
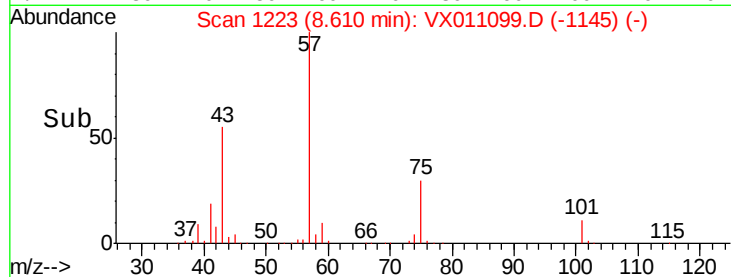
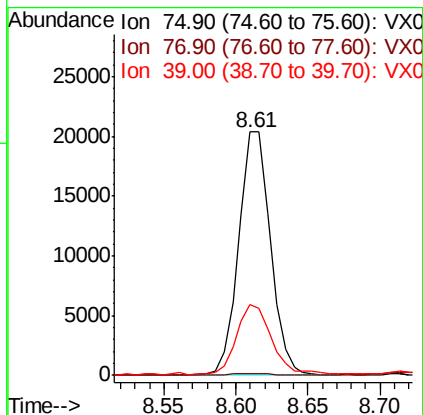
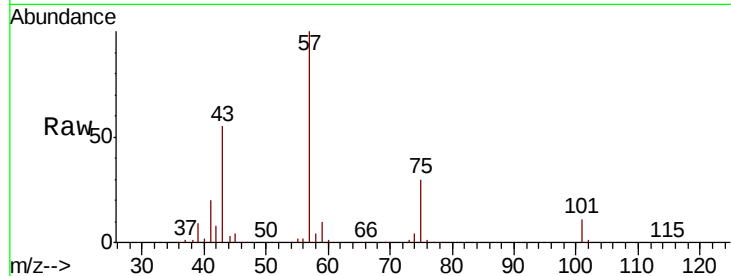


#54

cis-1,3-Dichloropropene
 Concen: 10.381 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011099.D
 Acq: 26 Jul 2019 18:32

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#05

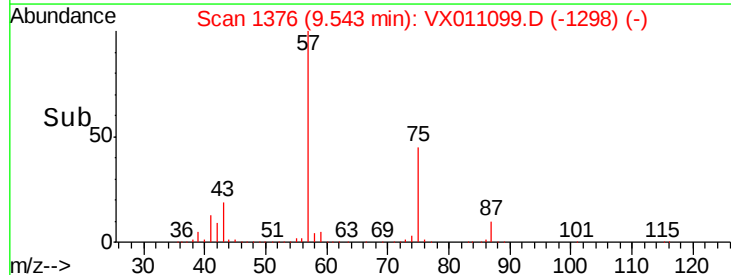
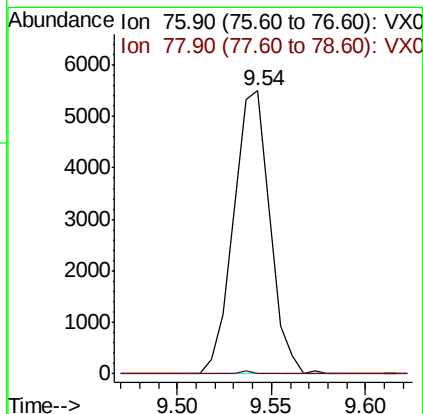
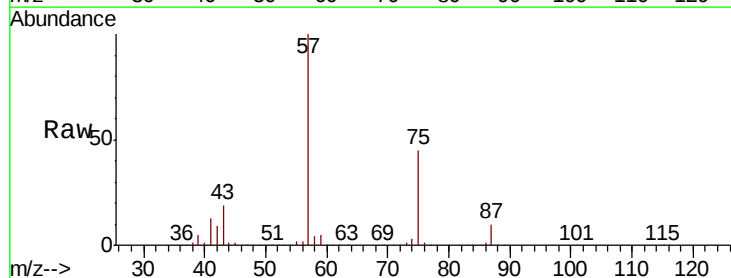
Tot Ion: 75 Resp: 31281
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 28.6 36.6 54.8#

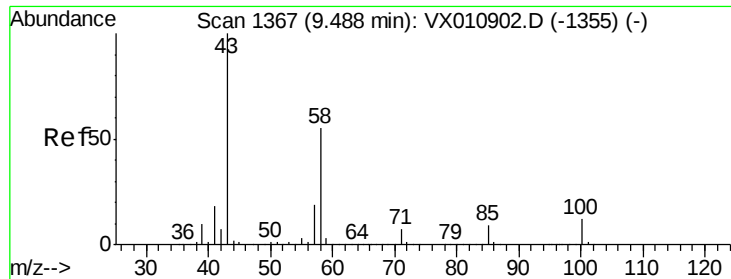


#57

1,3-Dichloropropane
 Concen: 2.199 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.18 min
 Lab File: VX011099.D
 Acq: 26 Jul 2019 18:32

Tgt Ion: 76 Resp: 7340
 Ion Ratio Lower Upper
 76 100
 78 0.3 25.6 38.4#

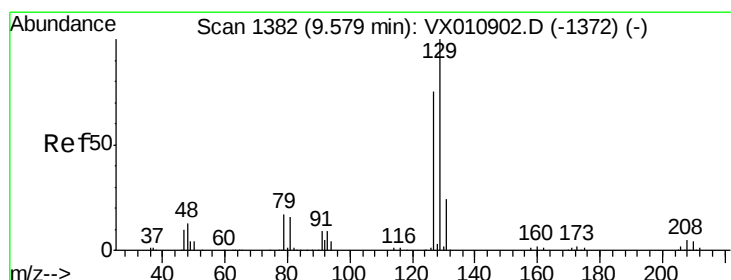
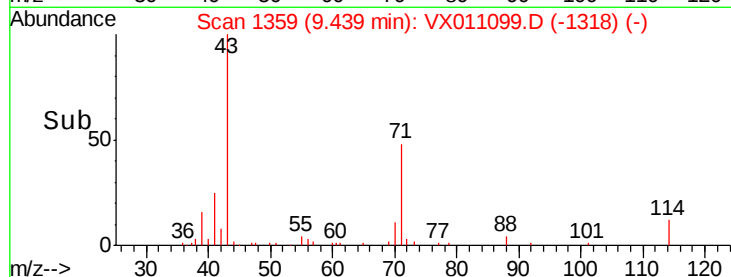
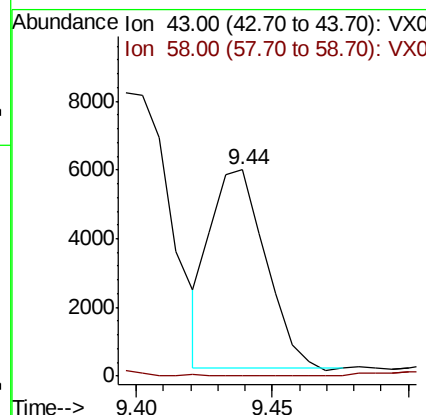
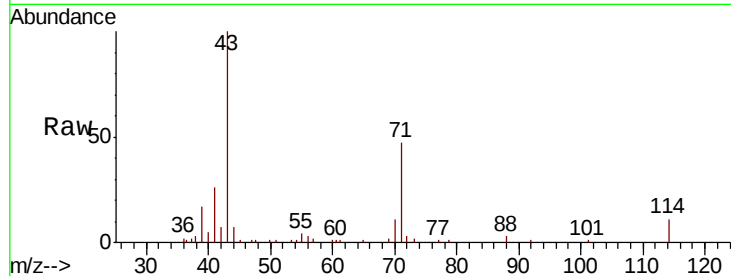




#59
2-Hexanone
Concen: 3.801 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.05 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

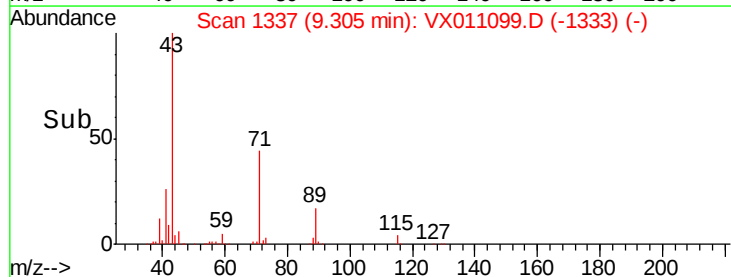
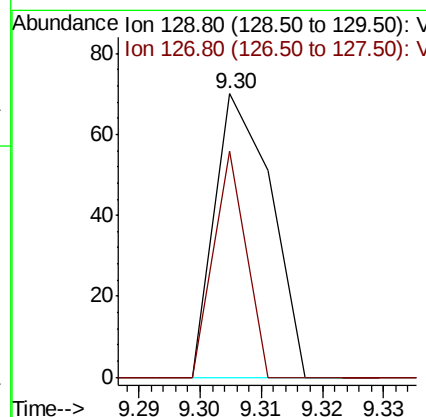
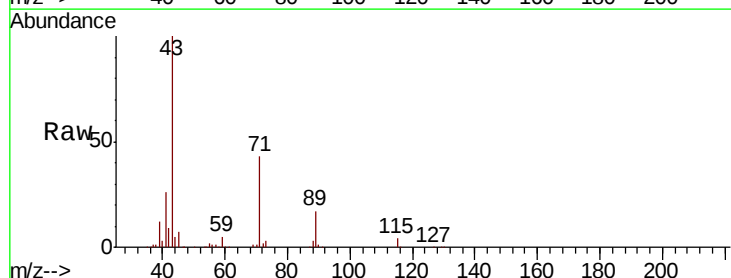
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#05

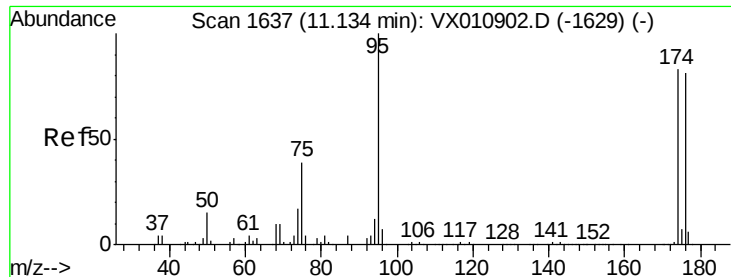
Tot Ion: 43 Resp: 8172
Ion Ratio Lower Upper
43 100
58 0.0 28.0 83.9#



#60
Dibromochloromethane
Concen: 2.545 ug/l
RT: 9.30 min Scan# 1337
Delta R.T. -0.27 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

Tgt Ion: 129 Resp: 44
Ion Ratio Lower Upper
129 100
127 45.5 38.6 115.8





#62

4-Bromofluorobenzene

Concen: 49.314 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#05

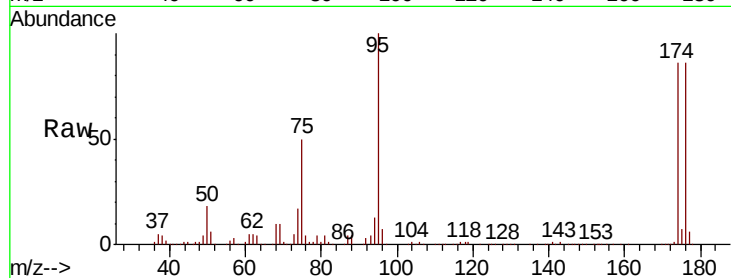
Tot Ion: 95 Resp: 133418

Ion Ratio Lower Upper

95 100

174 91.8 0.0 180.6

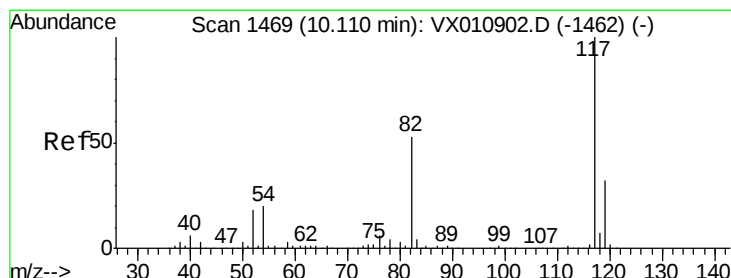
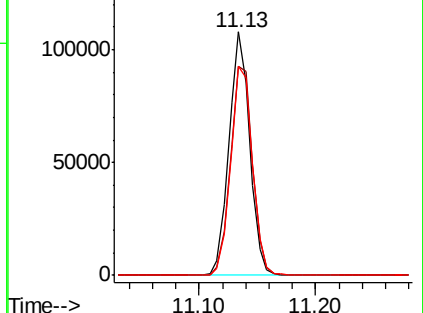
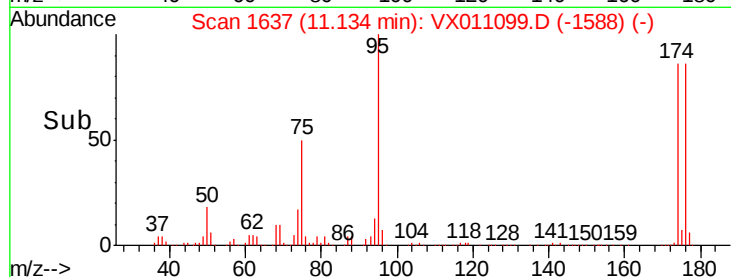
176 90.3 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011099.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011099.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011099.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

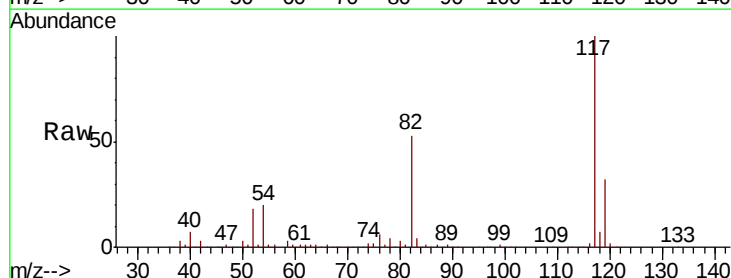
Tgt Ion: 117 Resp: 297429

Ion Ratio Lower Upper

117 100

82 53.5 42.6 63.8

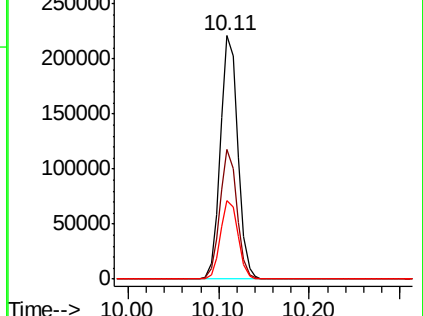
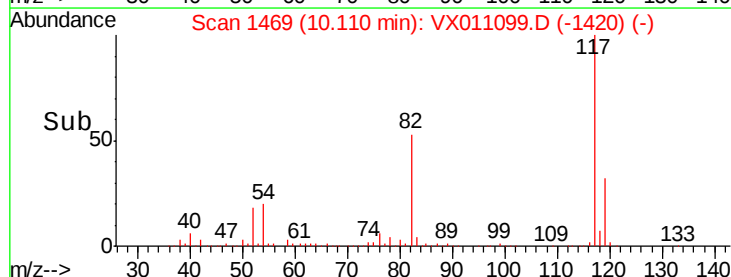
119 32.4 25.9 38.9

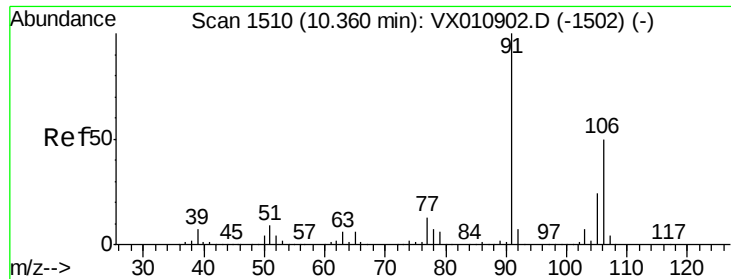


Abundance Ion 116.90 (116.60 to 117.60): VX011099.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011099.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011099.D (-1420) (-)

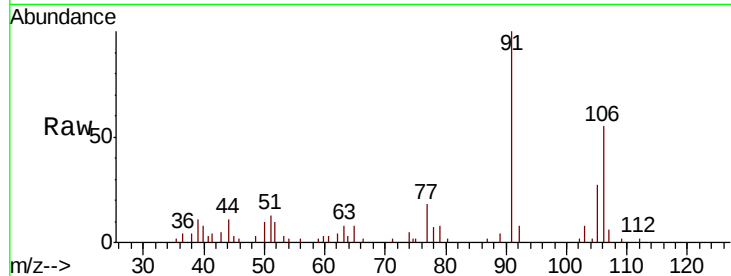




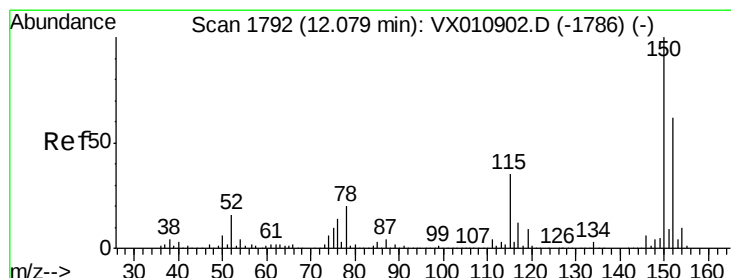
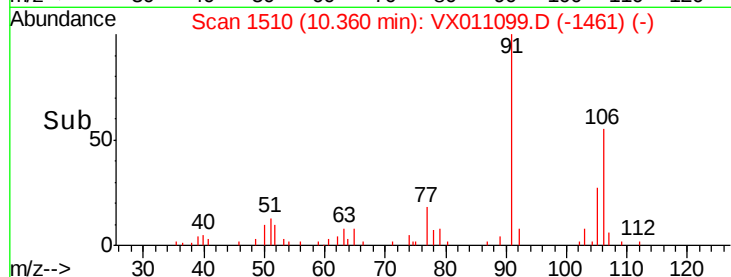
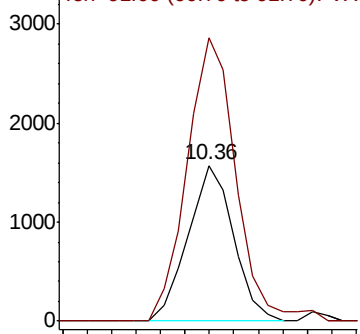
#68
m/p-Xvlenes
Concen: 0.511 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#05

Tot Ion:106 Resp: 2038
Ion Ratio Lower Upper
106 100
91 196.2 160.1 240.1

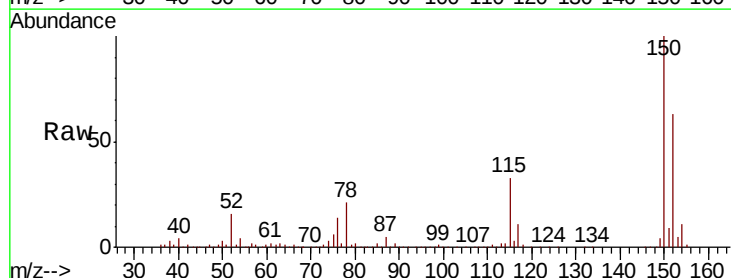


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

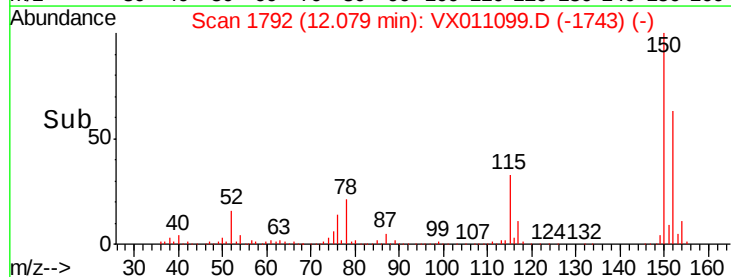
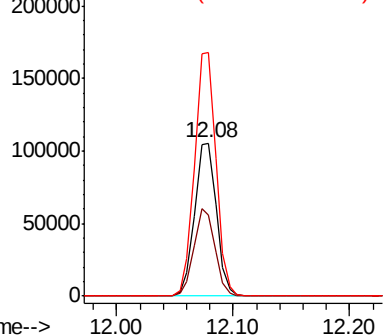


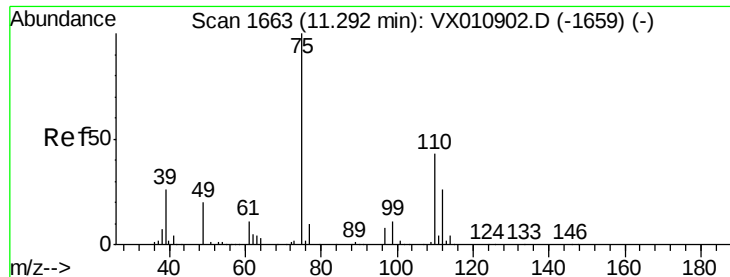
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011099.D
Acq: 26 Jul 2019 18:32

Tgt Ion:152 Resp: 136626
Ion Ratio Lower Upper
152 100
115 55.4 39.7 119.1
150 157.2 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: 27.224 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

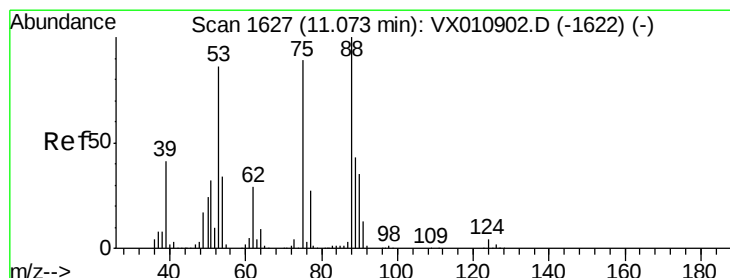
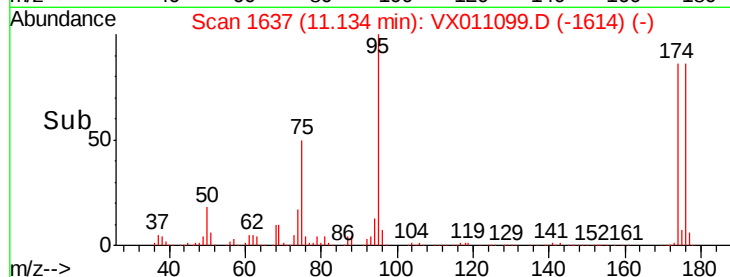
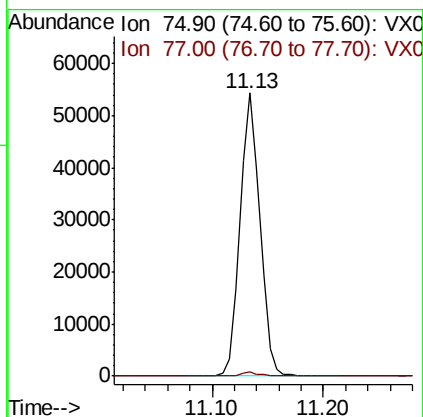
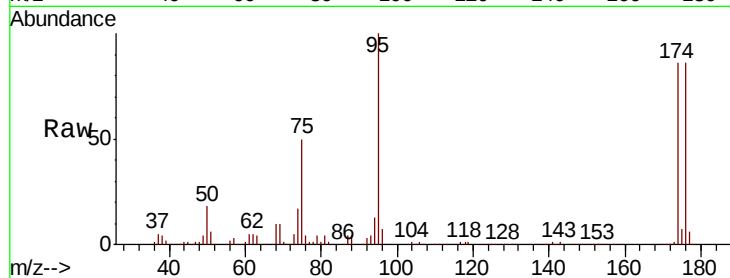
PB121723ZHE#05

Tot Ion: 75 Resp: 67121

Ion Ratio Lower Upper

75 100

77 1.3 21.3 64.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.464 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011099.D

Acq: 26 Jul 2019 18:32

Tgt Ion: 75 Resp: 67121

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#

