

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\
 Data File : VX011101.D
 Acq On : 26 Jul 2019 19:19
 Operator : JC/SP
 Sample : PB121723ZHE#07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#07

Quant Time: Jul 27 02:05:25 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	195400	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	315539	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	307718	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	141953	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	108512	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
35) Dibromofluoromethane	5.50	113	100312	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
50) Toluene-d8	8.71	98	392011	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	
62) 4-Bromofluorobenzene	11.13	95	137629	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	

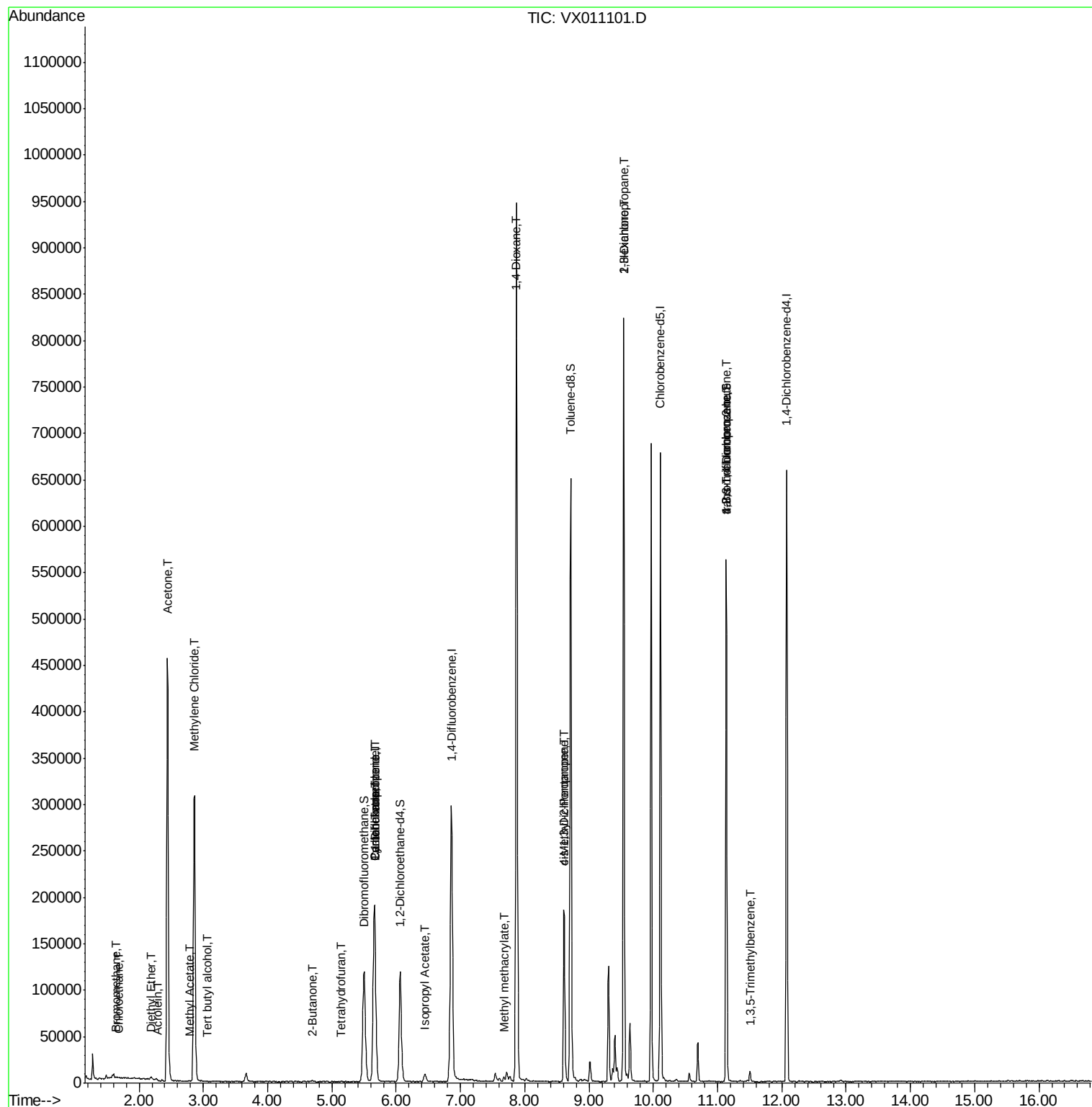
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	405	0.392	ug/l #	66
6) Chloroethane	1.69	64	264	0.227	ug/l #	41
8) Diethyl Ether	2.18	74	689	0.645	ug/l	63
11) Tert butyl alcohol	3.06	59	398	0.822	ug/l #	91
13) Acrolein	2.29	56	166	0.593	ug/l #	15
16) Acetone	2.44	43	471721	502.436	ug/l	97
18) Methyl Acetate	2.78	43	1640	0.767	ug/l	95
20) Methylene Chloride	2.86	84	153353	77.075	ug/l	98
25) 2-Butanone	4.70	43	2539	1.884	ug/l	93
29) Tetrahydrofuran	5.15	42	421	0.493	ug/l #	74
31) Cyclohexane	5.66	56	3892	1.379	ug/l #	6
36) 1,1-Dichloropropene	5.67	75	13134	5.067	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18196	6.737	ug/l #	18
43) Isopropyl Acetate	6.45	43	12280	2.814	ug/l	98
48) Methyl methacrylate	7.68	41	5334	2.509	ug/l #	10
49) 1,4-Dioxane	7.87	88	171	2.876	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	61653	21.794	ug/l #	48
54) cis-1,3-Dichloropropene	8.61	75	29962	9.743	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	7494	2.200	ug/l #	44
59) 2-Hexanone	9.54	43	95319	43.443	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	69199	27.014	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	4915	0.613	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	69199	66.973	ug/l #	11

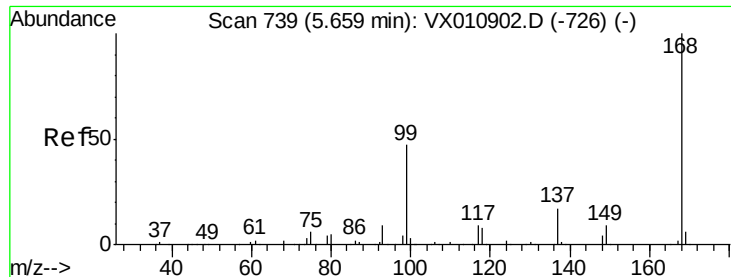
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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PB121723ZHE#07

Quant Time: Jul 27 02:05:25 2019
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: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

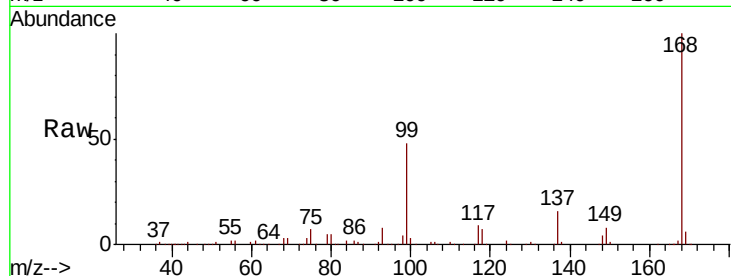
PB121723ZHE#07

Tot Ion:168 Resp: 195400

Ion Ratio Lower Upper

168 100

99 48.0 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

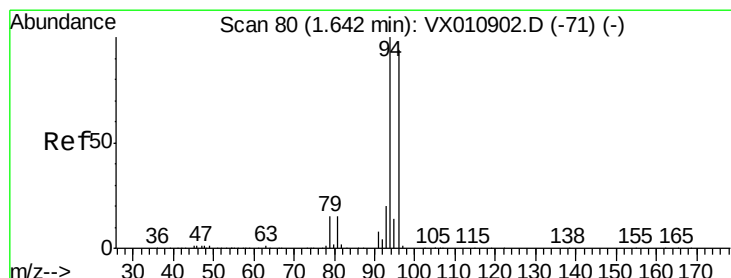
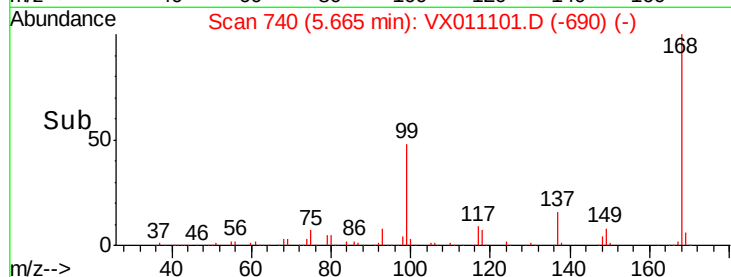
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.392 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011101.D

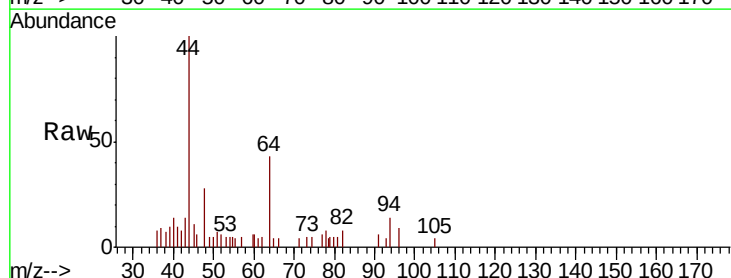
Acq: 26 Jul 2019 19:19

Tgt Ion: 94 Resp: 405

Ion Ratio Lower Upper

94 100

96 61.4 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

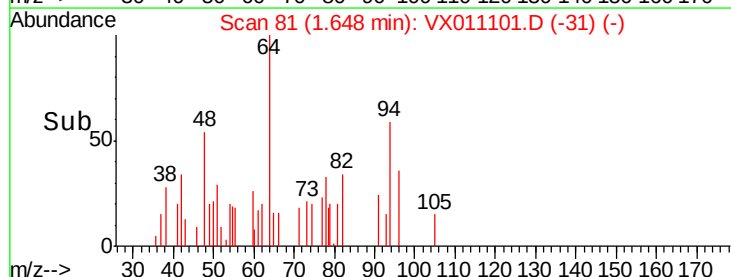
150

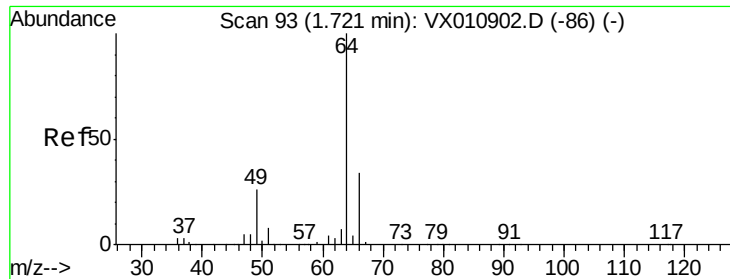
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.227 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.03 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

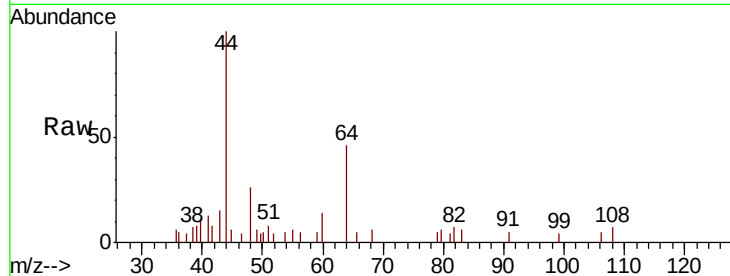
PB121723ZHE#07

Tot Ion: 64 Resp: 264

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

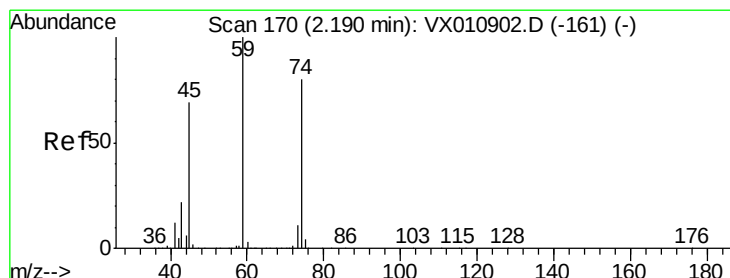
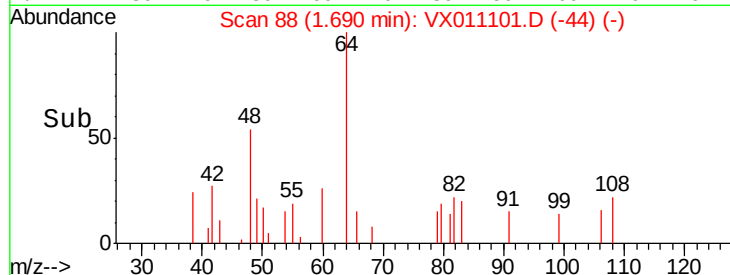
600

400

200

0

Time-->



#8

Diethyl Ether

Concen: 0.645 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX011101.D

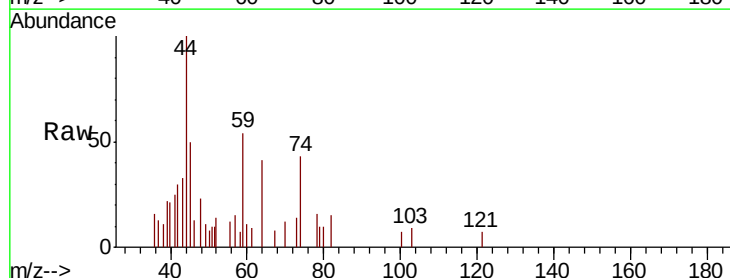
Acq: 26 Jul 2019 19:19

Tgt Ion: 74 Resp: 689

Ion Ratio Lower Upper

74 100

45 125.7 45.5 136.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

500

400

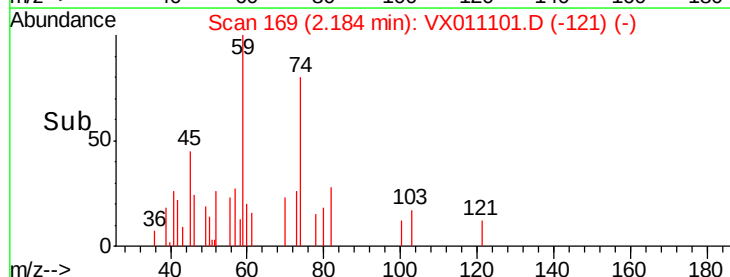
300

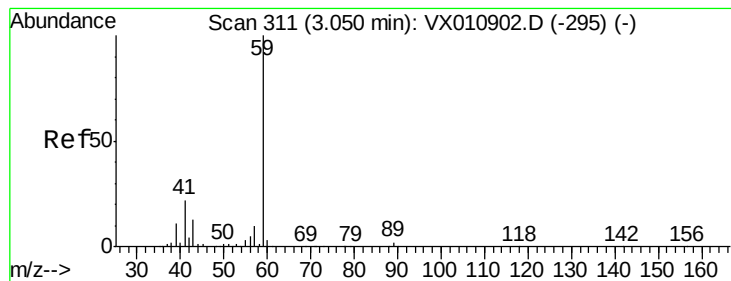
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 0.822 ug/l

RT: 3.06 min Scan# 312

Delta R.T. 0.01 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

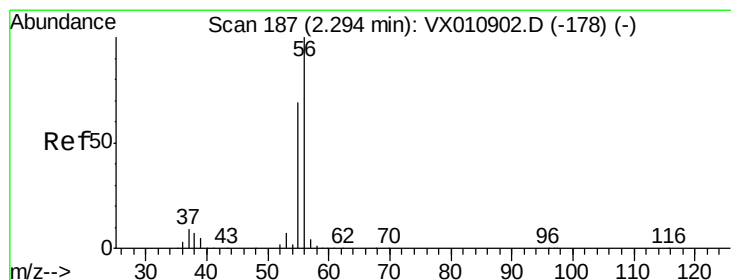
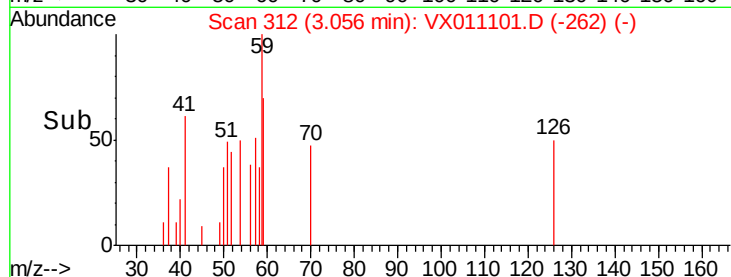
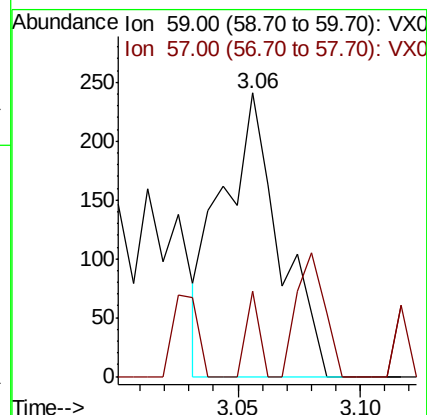
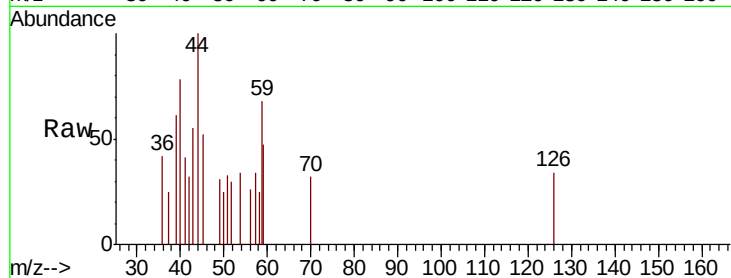
PB121723ZHE#07

Tot Ion: 59 Resp: 398

Ion Ratio Lower Upper

59 100

57 6.5 7.9 11.9#



#13

Acrolein

Concen: 0.593 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX011101.D

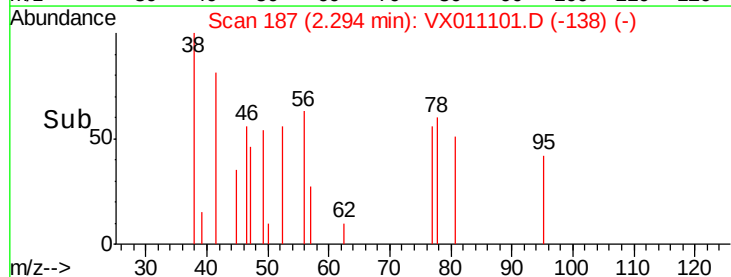
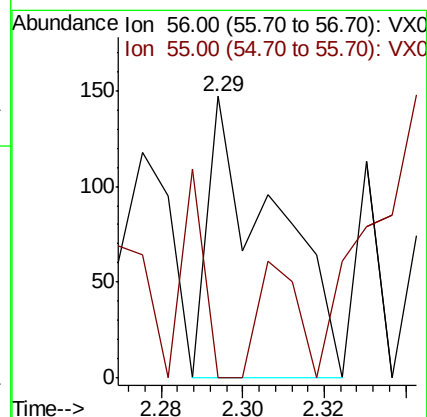
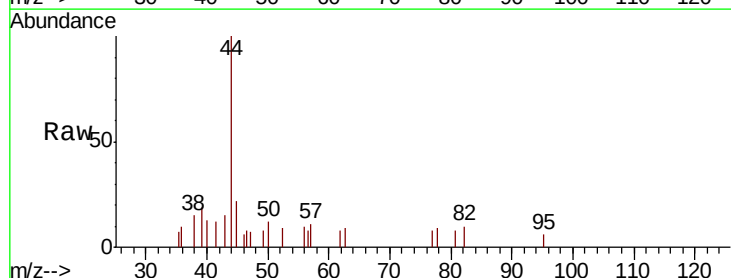
Acq: 26 Jul 2019 19:19

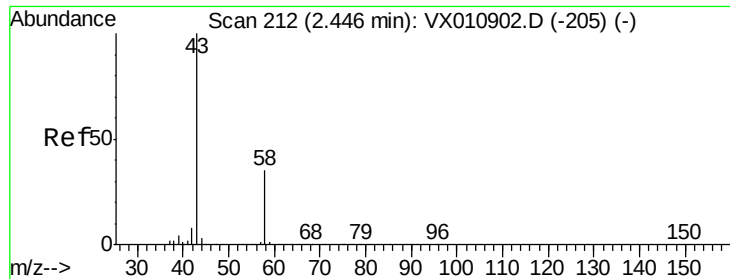
Tgt Ion: 56 Resp: 166

Ion Ratio Lower Upper

56 100

55 0.0 55.9 83.9#





#16

Acetone

Concen: 502.436 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

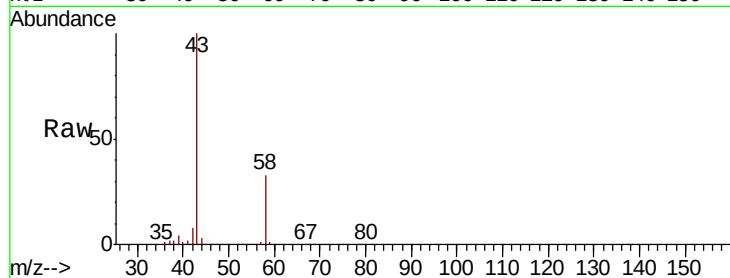
PB121723ZHE#07

Tot Ion: 43 Resp: 471721

Ion Ratio Lower Upper

43 100

58 33.0 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

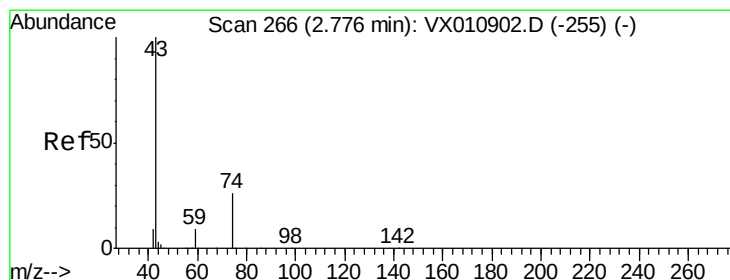
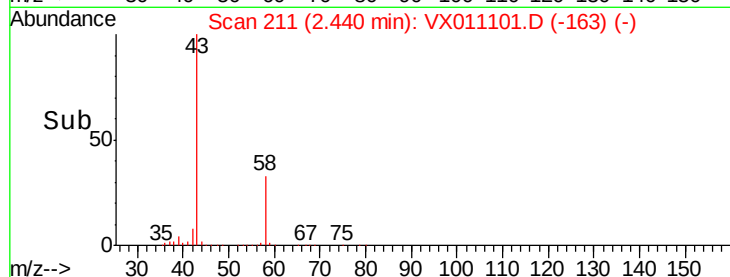
300000

200000

100000

0

Time--> 2.30 2.40 2.50 2.60



#18

Methyl Acetate

Concen: 0.767 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX011101.D

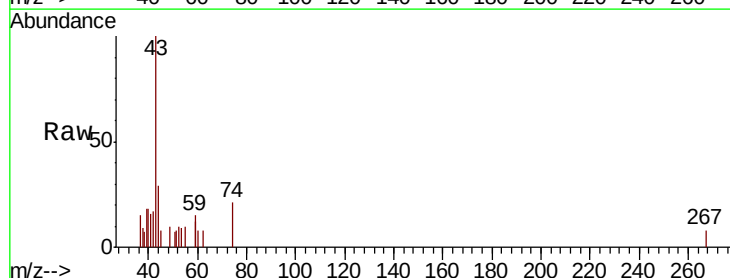
Acq: 26 Jul 2019 19:19

Tgt Ion: 43 Resp: 1640

Ion Ratio Lower Upper

43 100

74 24.2 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

800

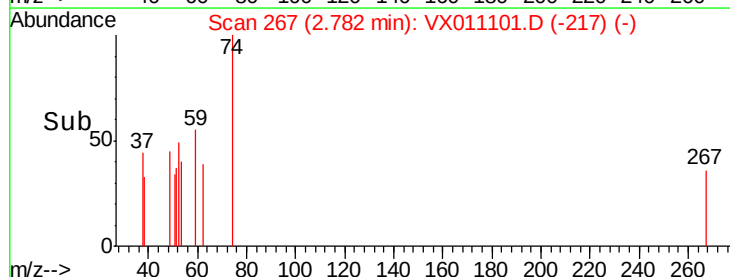
600

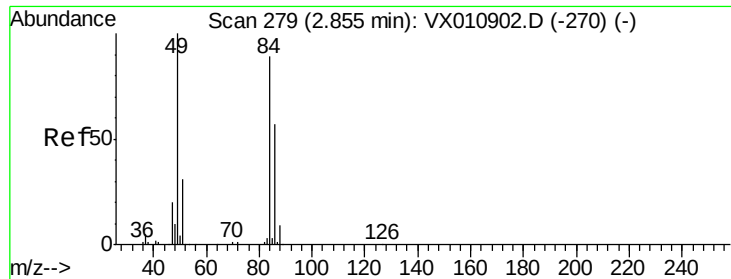
400

200

0

Time--> 2.70 2.75 2.80 2.85

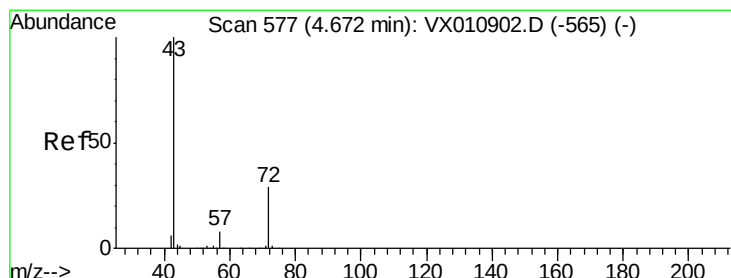
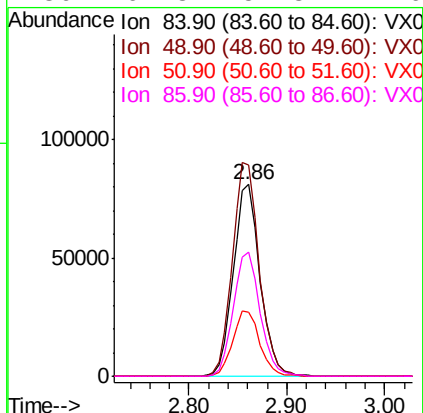
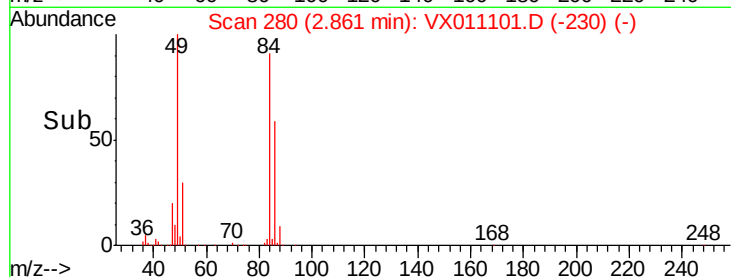
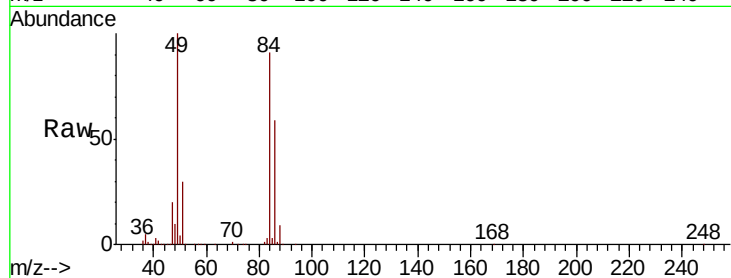




#20
Methvlene Chloride
Concen: 77.075 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011101.D
Acq: 26 Jul 2019 19:19

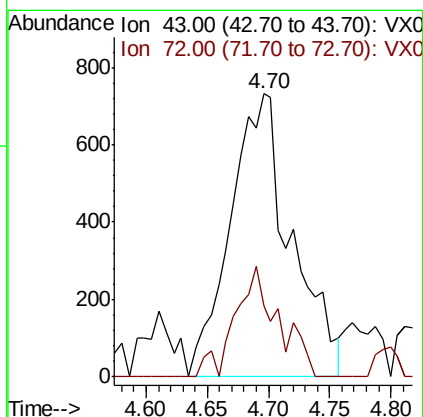
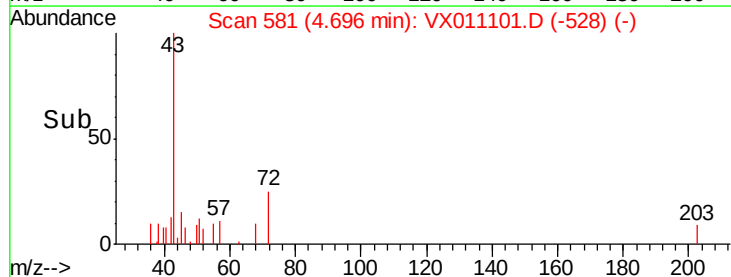
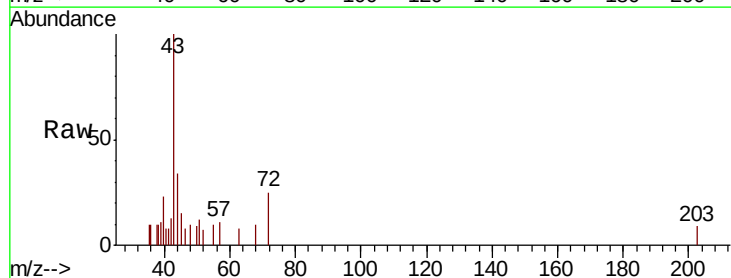
Instrument :
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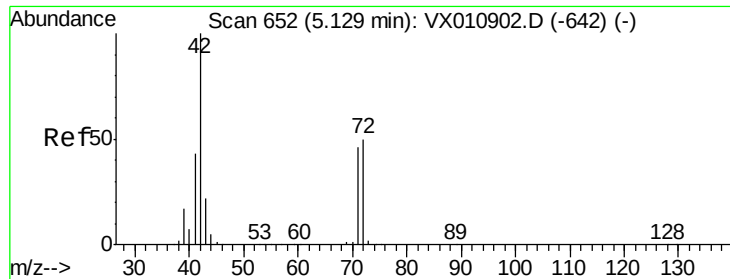
Tot Ion: 84 Resp: 153353
Ion Ratio Lower Upper
84 100
49 110.0 89.9 134.9
51 33.3 27.8 41.6
86 64.8 51.8 77.6



#25
2-Butanone
Concen: 1.884 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX011101.D
Acq: 26 Jul 2019 19:19

Tgt Ion: 43 Resp: 2539
Ion Ratio Lower Upper
43 100
72 25.0 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.493 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#07

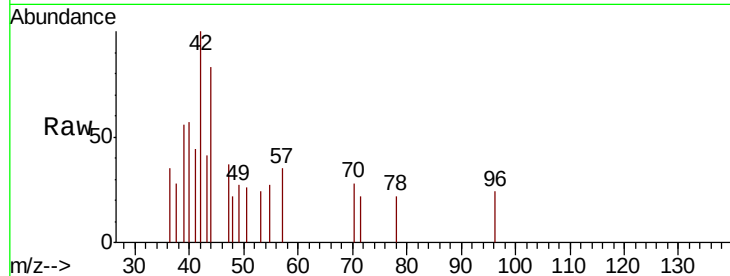
Tot Ion: 42 Resp: 421

Ion Ratio Lower Upper

42 100

72 21.9 39.8 59.8#

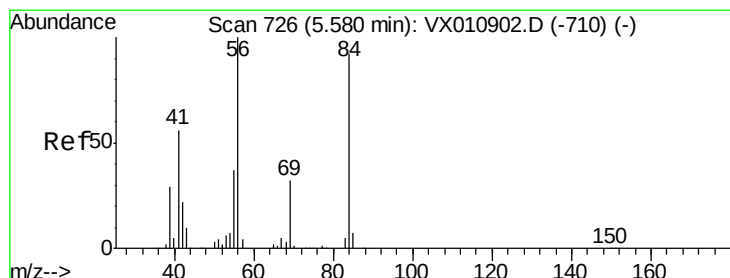
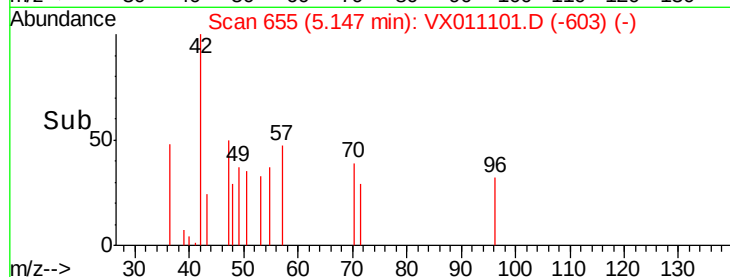
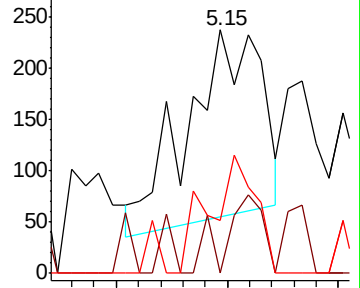
71 39.7 37.0 55.4



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



#31

Cyclohexane

Concen: 1.379 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

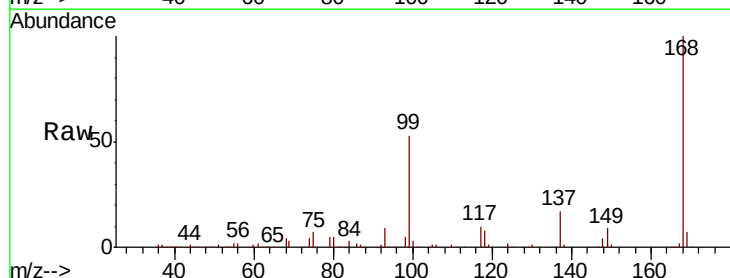
Tgt Ion: 56 Resp: 3892

Ion Ratio Lower Upper

56 100

69 169.5 25.8 38.8#

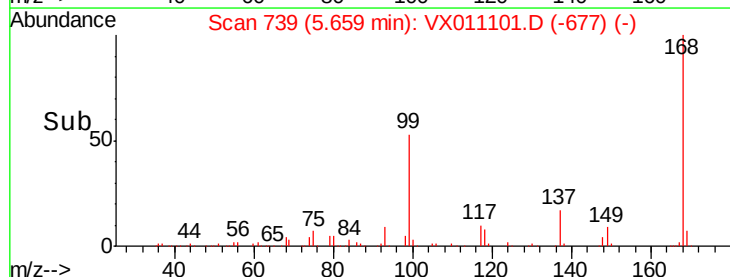
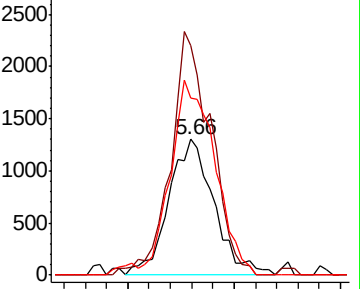
84 130.8 73.8 110.6#

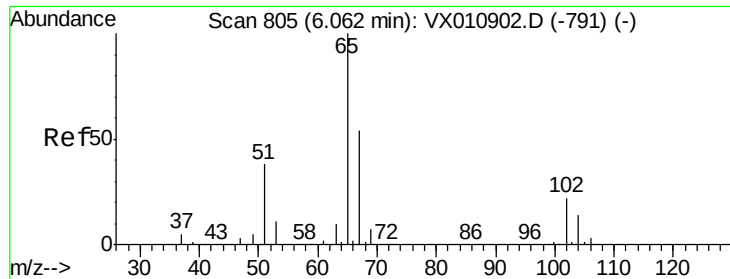


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

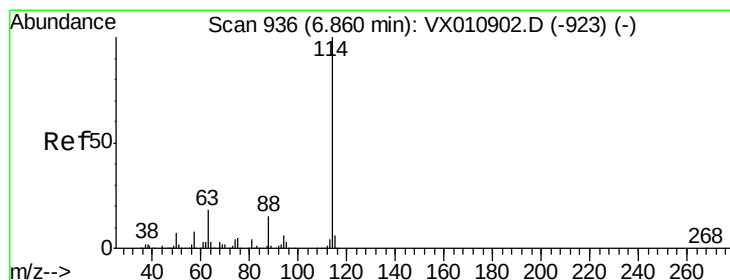
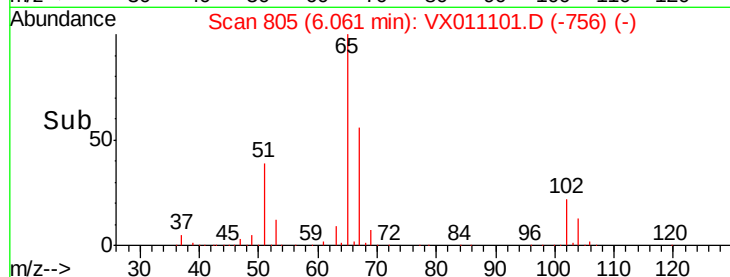
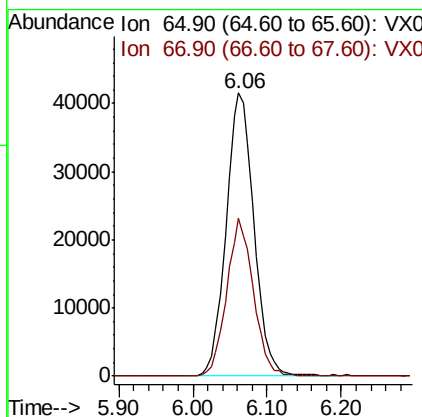
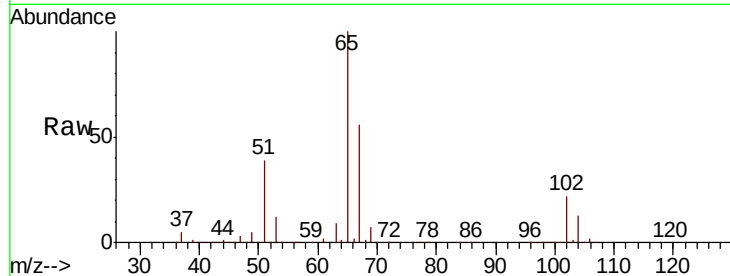




#33
 1,2-Dichloroethane-d4
 Concen: 52.200 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX011101.D
 Acq: 26 Jul 2019 19:19

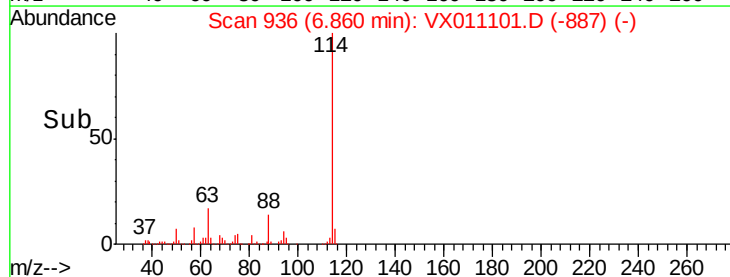
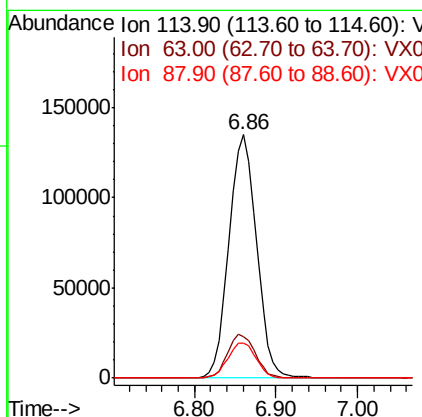
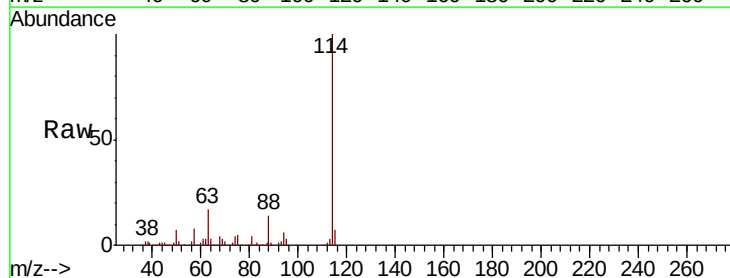
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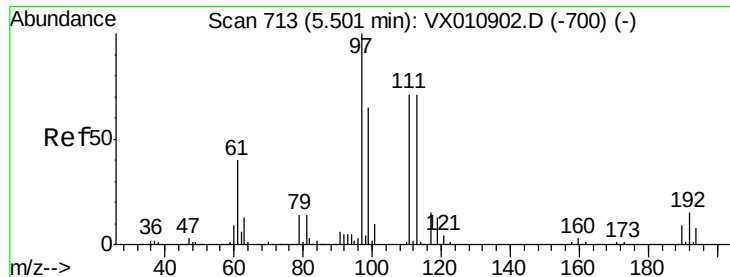
Tot Ion: 65 Resp: 108512
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX011101.D
 Acq: 26 Jul 2019 19:19

Tgt Ion: 114 Resp: 315539
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 35.6
 88 14.1 0.0 29.8





#35

Dibromofluoromethane

Concen: 50.086 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#07

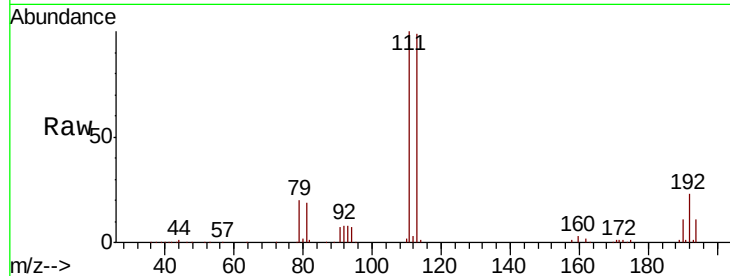
Tot Ion:113 Resp: 100312

Ion Ratio Lower Upper

113 100

111 101.9 82.3 123.5

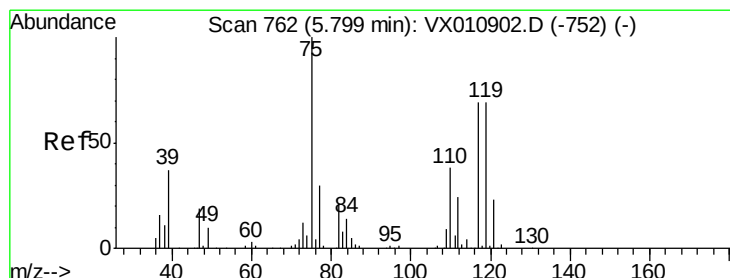
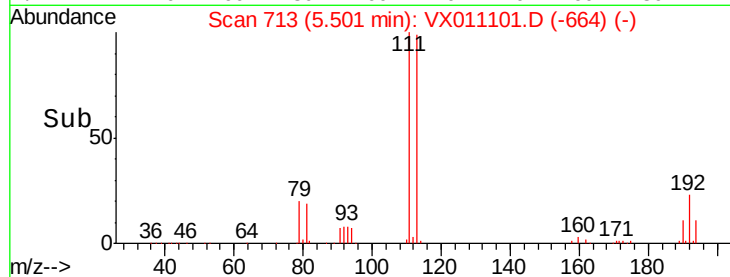
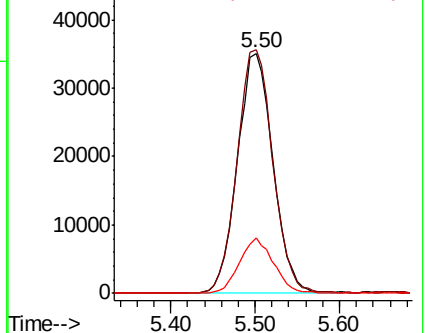
192 21.9 17.4 26.2



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: 5.067 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

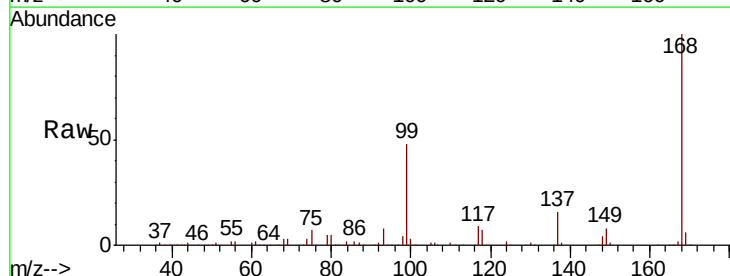
Tgt Ion: 75 Resp: 13134

Ion Ratio Lower Upper

75 100

110 11.3 19.9 59.7#

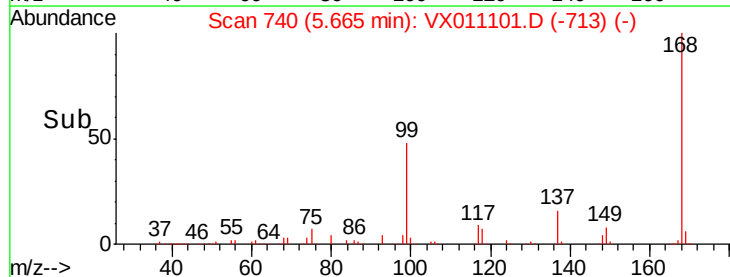
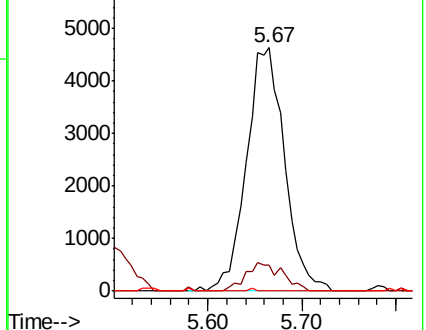
77 0.2 25.0 37.4#

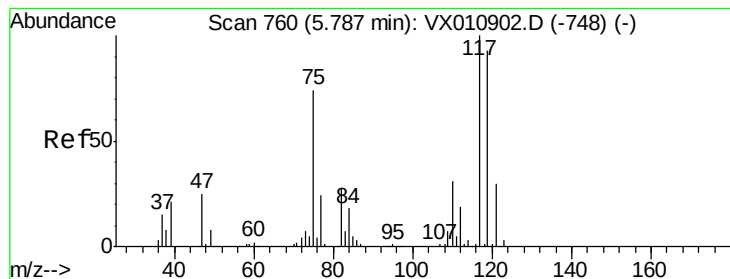


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.737 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#07

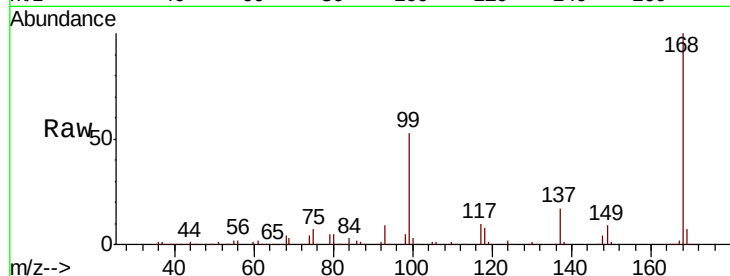
Tot Ion:117 Resp: 18196

Ion Ratio Lower Upper

117 100

119 6.3 74.2 111.2#

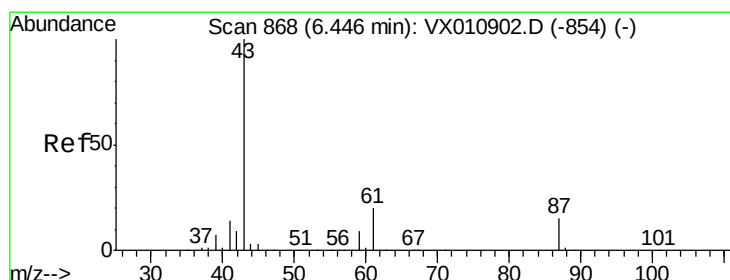
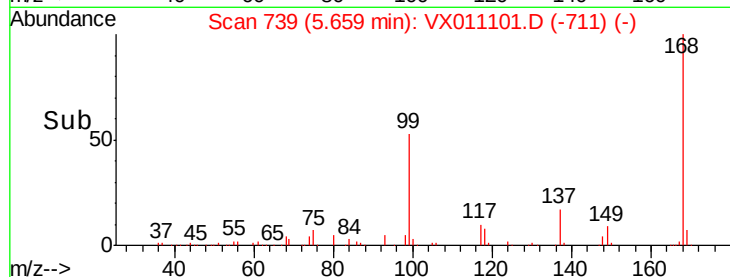
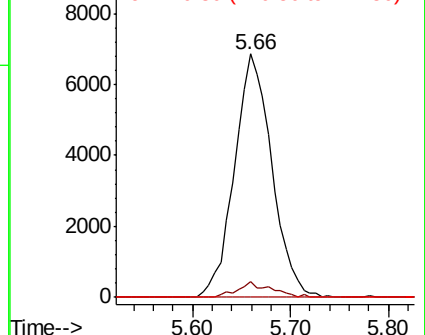
121 0.0 24.2 36.2#



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: 2.814 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

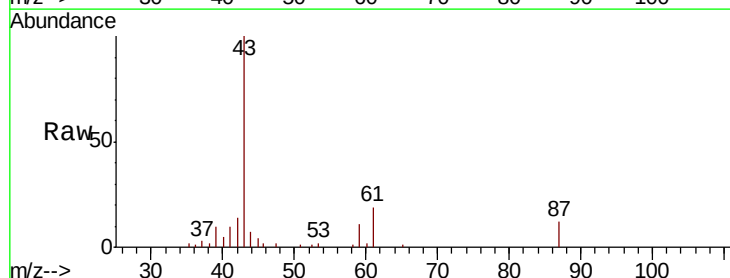
Tgt Ion: 43 Resp: 12280

Ion Ratio Lower Upper

43 100

61 20.7 17.1 25.7

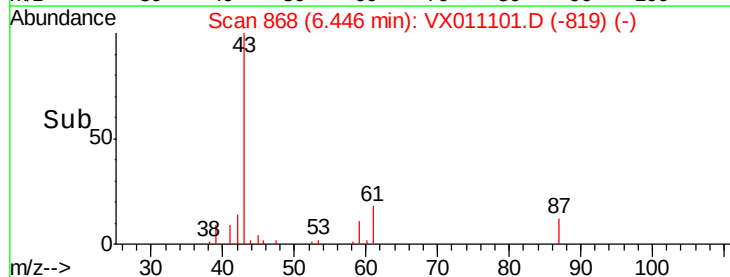
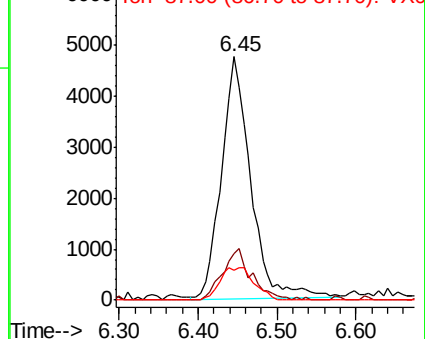
87 15.7 12.0 18.0

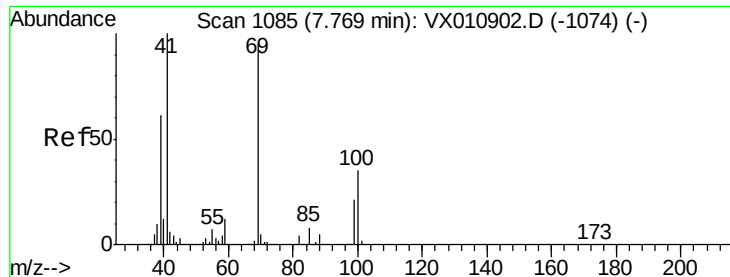


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

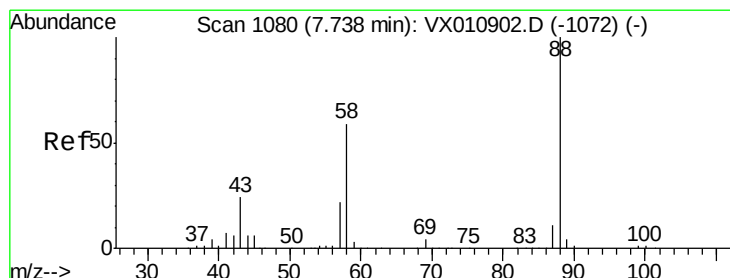
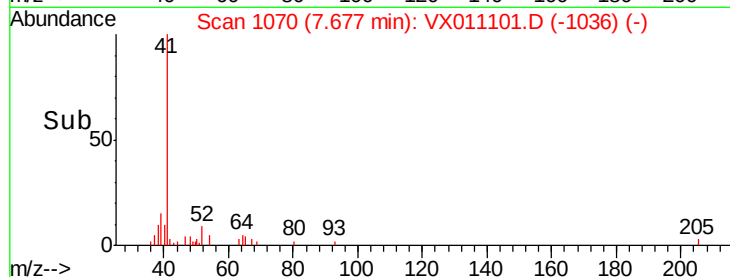
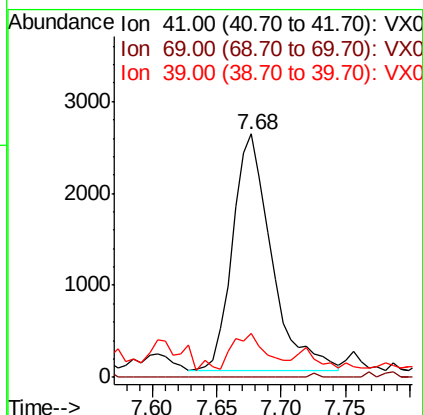
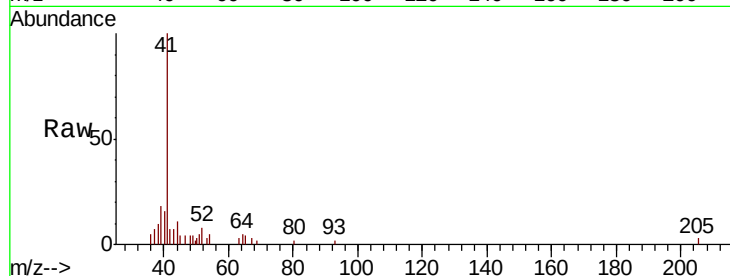




#48
Methvl methacrylate
Concen: 2.509 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011101.D
Acq: 26 Jul 2019 19:19

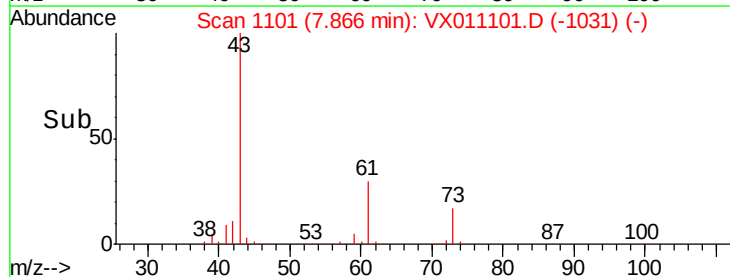
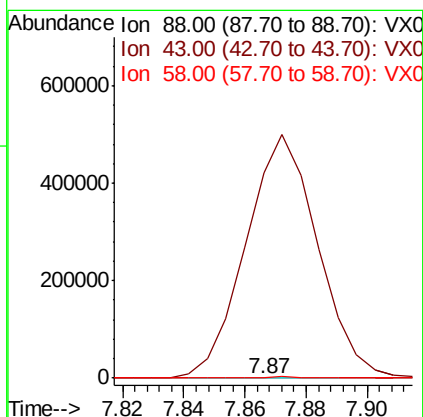
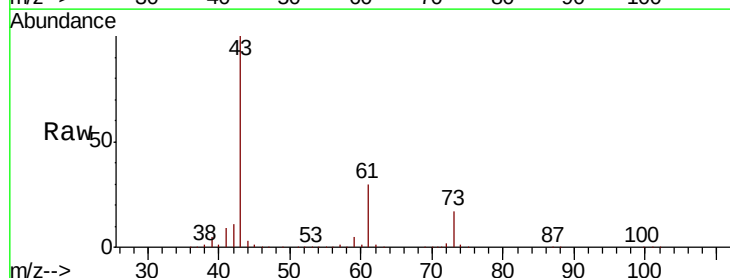
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#07

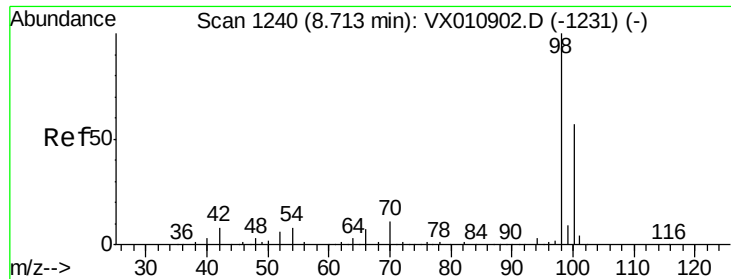
Tot Ion: 41 Resp: 5334
Ion Ratio Lower Upper
41 100
69 0.0 74.4 111.6#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 2.876 ug/l
RT: 7.87 min Scan# 1101
Delta R.T. 0.13 min
Lab File: VX011101.D
Acq: 26 Jul 2019 19:19

Tgt Ion: 88 Resp: 171
Ion Ratio Lower Upper
88 100
43 480995.3 22.9 34.3#
58 2247.4 49.8 74.8#

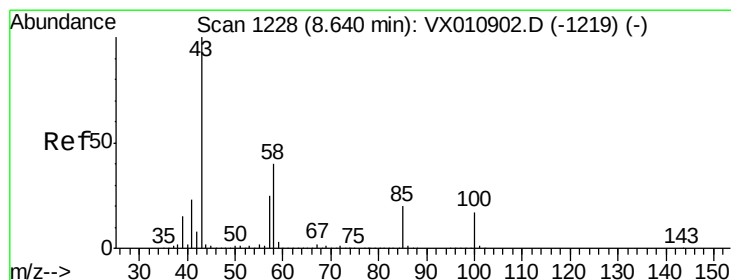
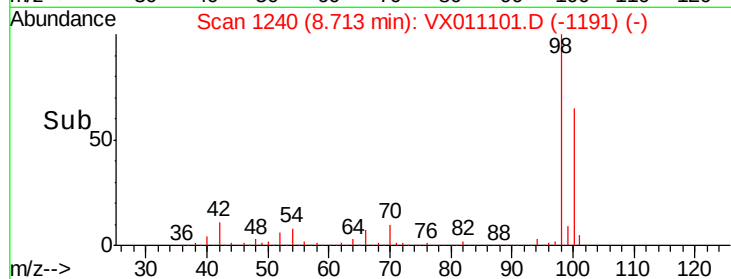
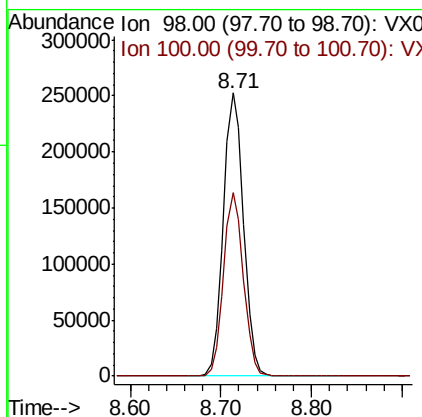
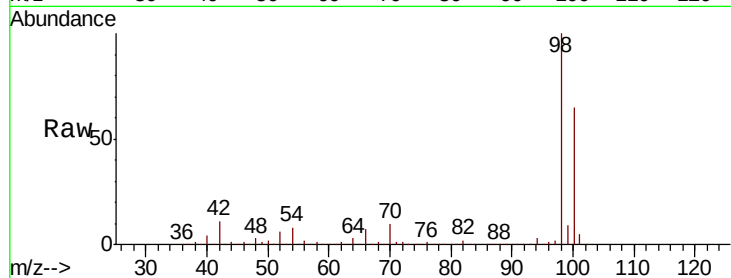




#50
Toluene-d8
Concen: 52.186 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011101.D
Acq: 26 Jul 2019 19:19

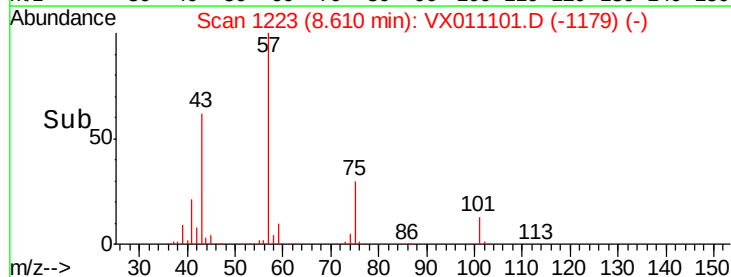
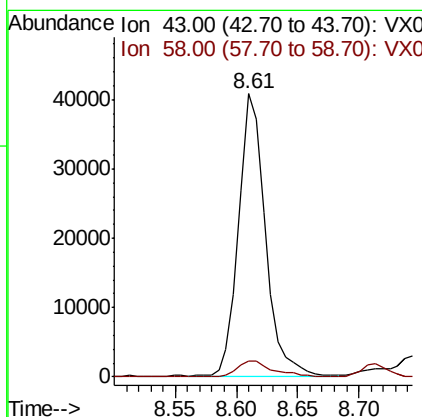
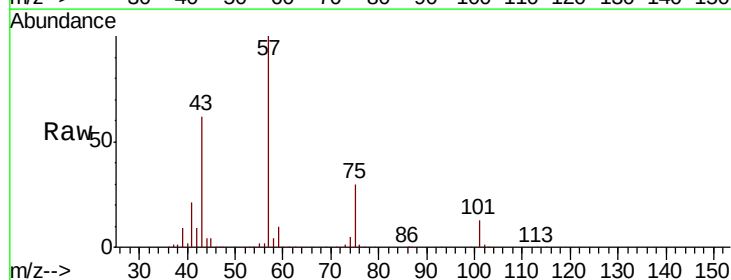
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#07

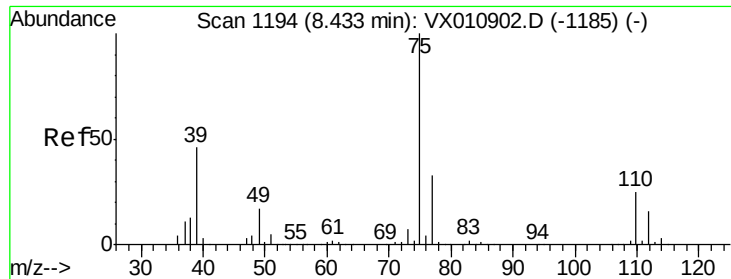
Tot Ion: 98 Resp: 392011
Ion Ratio Lower Upper
98 100
100 63.9 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 21.794 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011101.D
Acq: 26 Jul 2019 19:19

Tgt Ion: 43 Resp: 61653
Ion Ratio Lower Upper
43 100
58 7.8 32.2 48.4#



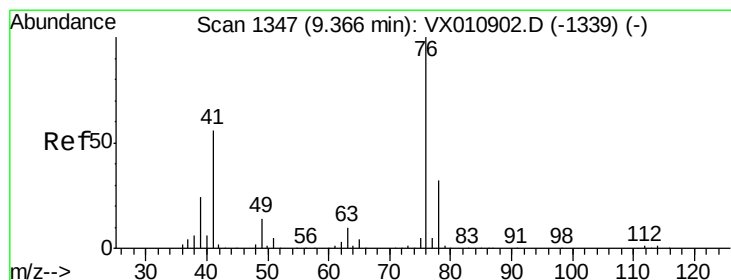
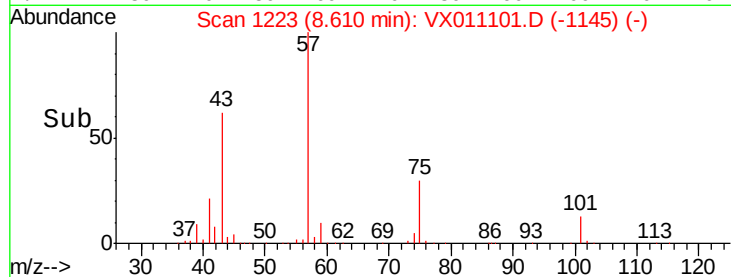
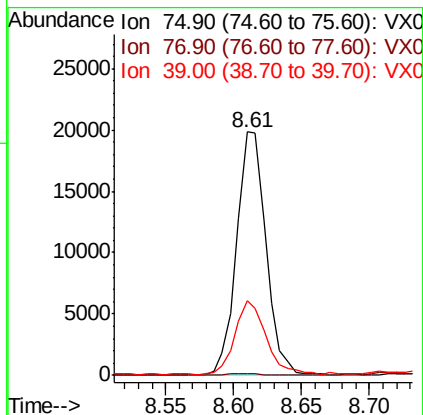
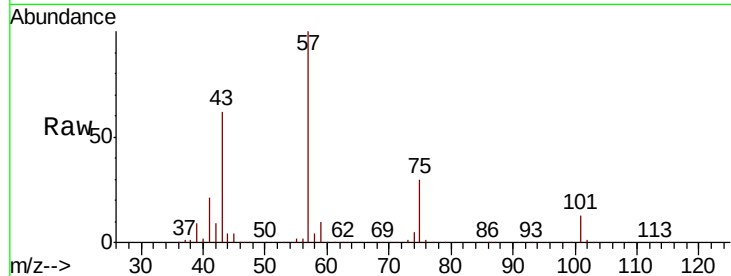


#54

cis-1,3-Dichloropropene
 Concen: 9.743 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011101.D
 Acq: 26 Jul 2019 19:19

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#07

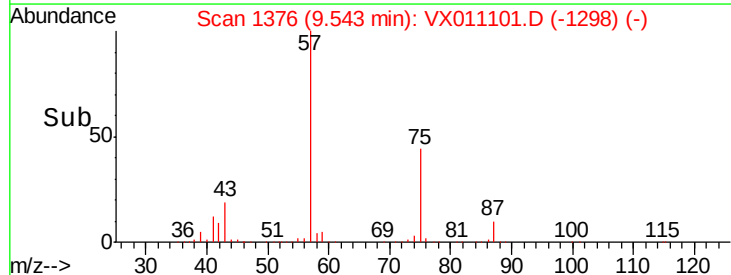
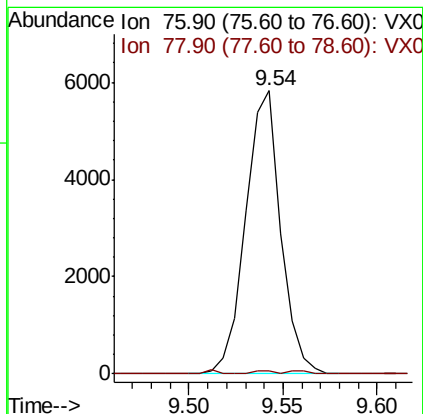
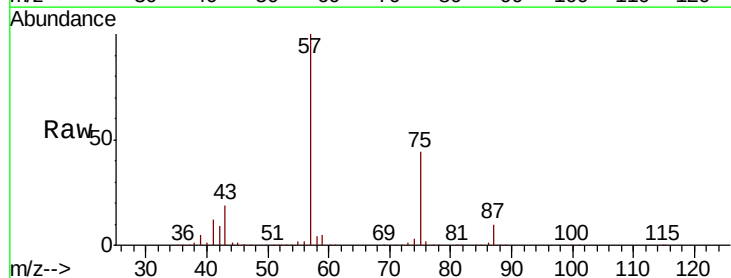
Tot Ion: 75 Resp: 29962
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 29.9 36.6 54.8#

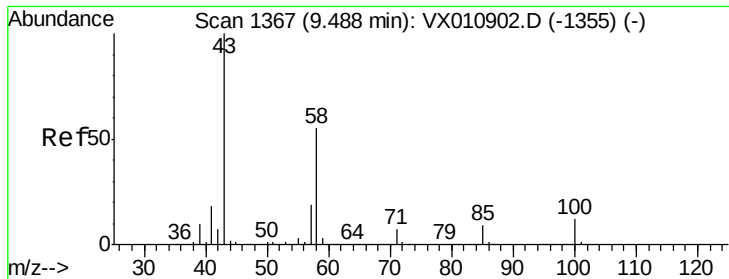


#57

1,3-Dichloropropane
 Concen: 2.200 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.18 min
 Lab File: VX011101.D
 Acq: 26 Jul 2019 19:19

Tgt Ion: 76 Resp: 7494
 Ion Ratio Lower Upper
 76 100
 78 0.7 25.6 38.4#





#59

2-Hexanone

Concen: 43.443 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

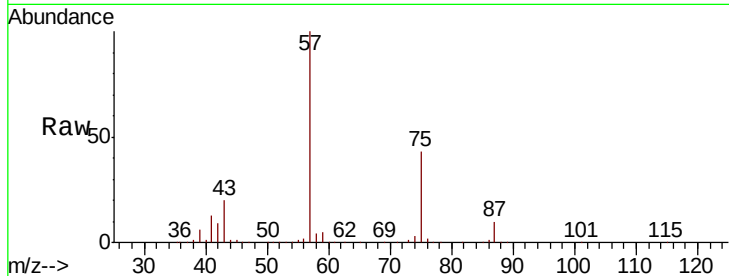
PB121723ZHE#07

Tot Ion: 43 Resp: 95319

Ion Ratio Lower Upper

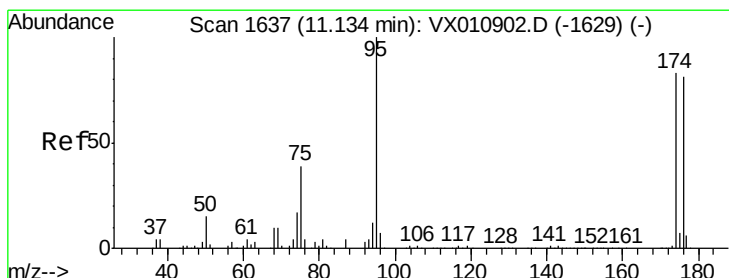
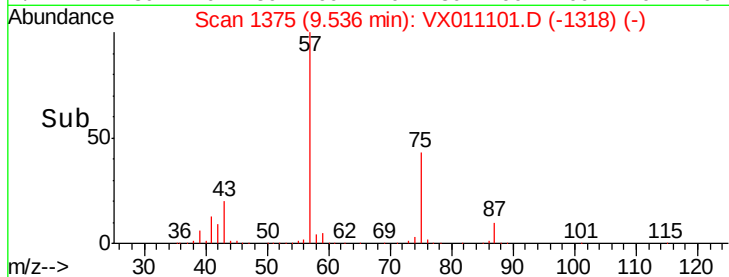
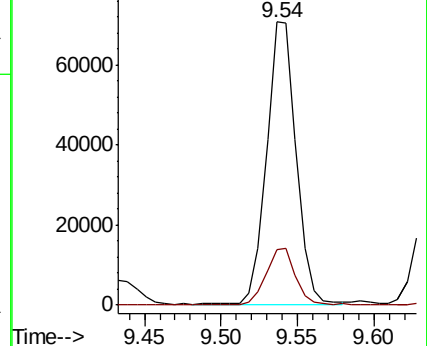
43 100

58 20.4 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 49.846 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

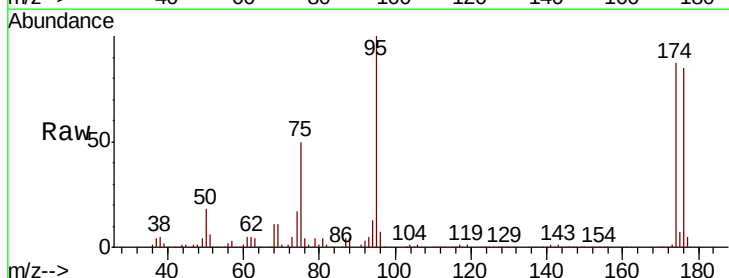
Tgt Ion: 95 Resp: 137629

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.6

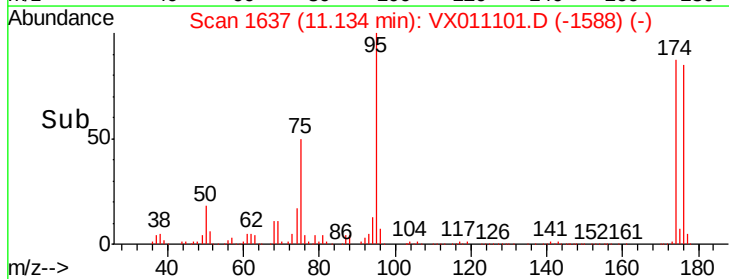
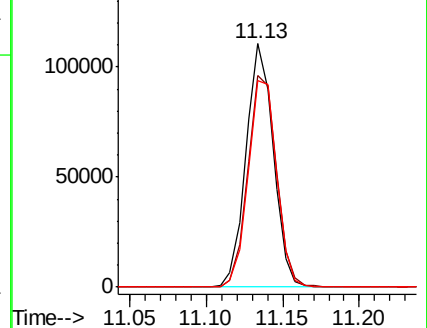
176 88.7 0.0 173.8

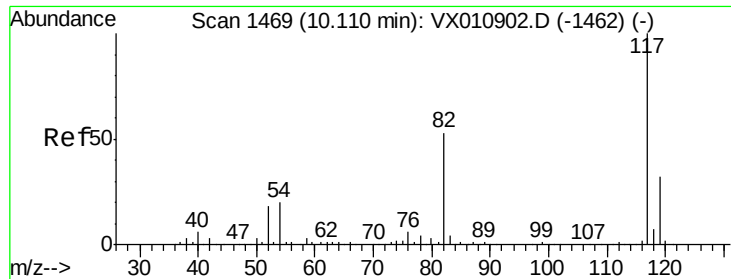


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

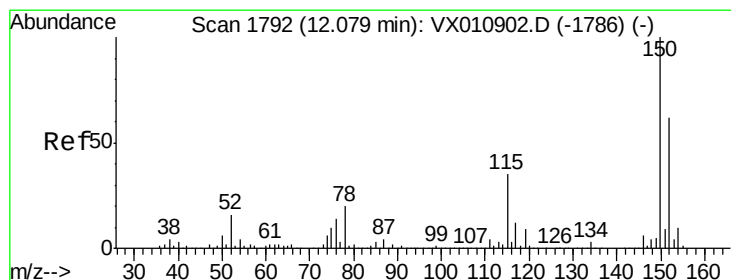
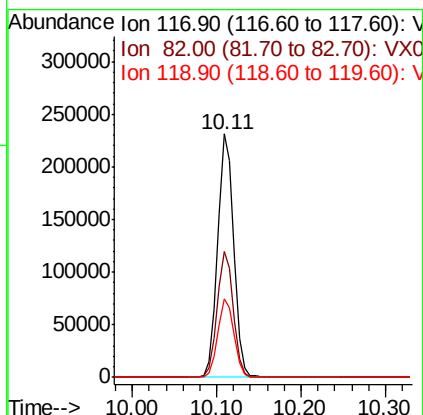
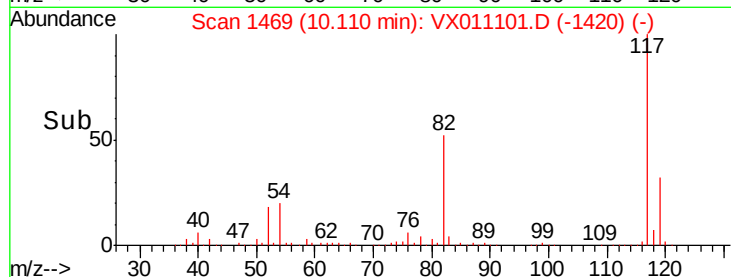
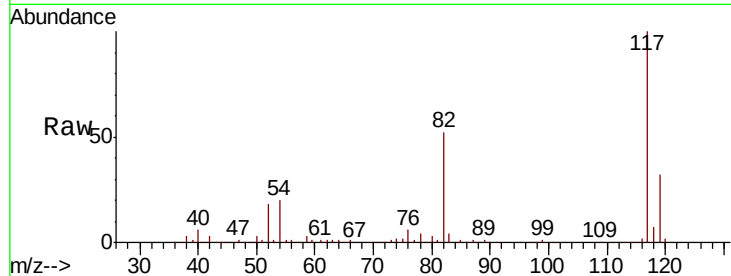




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011101.D
Acq: 26 Jul 2019 19:19

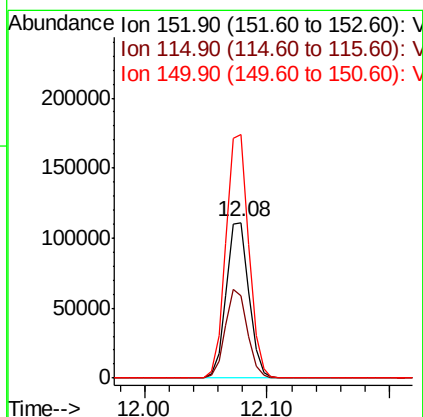
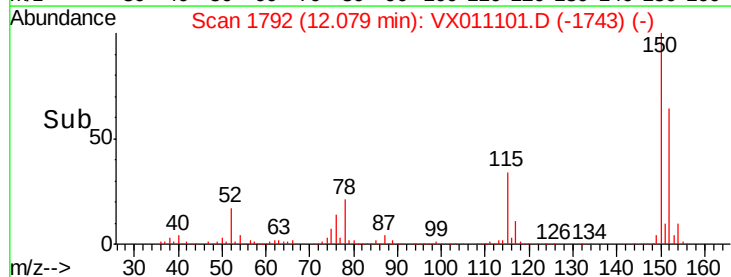
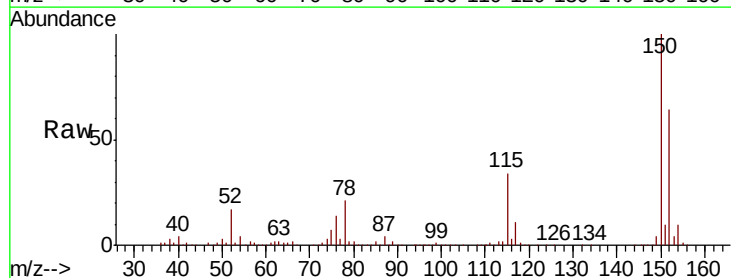
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#07

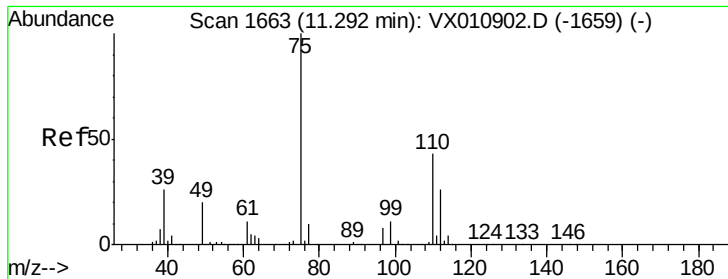
Tot Ion:117 Resp: 307718
Ion Ratio Lower Upper
117 100
82 51.8 42.6 63.8
119 32.1 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011101.D
Acq: 26 Jul 2019 19:19

Tgt Ion:152 Resp: 141953
Ion Ratio Lower Upper
152 100
115 55.8 39.7 119.1
150 158.0 0.0 345.6

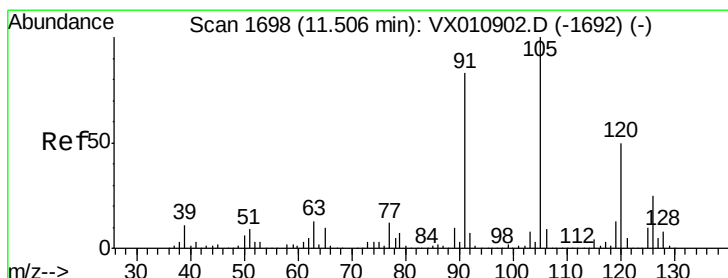
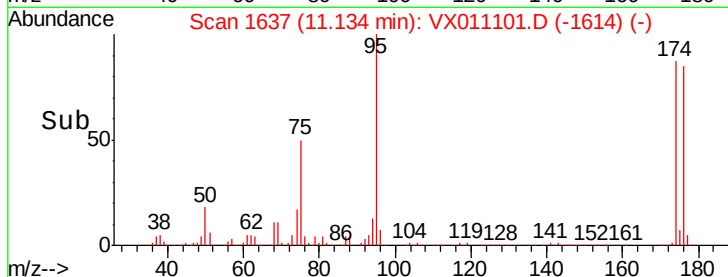
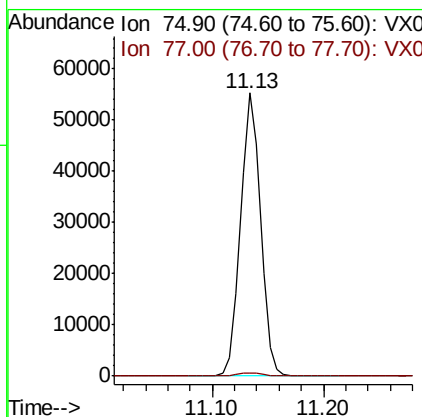
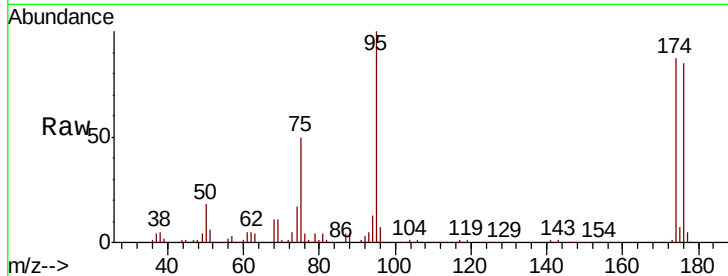




#76
 1,2,3-Trichloropropane
 Concen: 27.014 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011101.D
 Acq: 26 Jul 2019 19:19

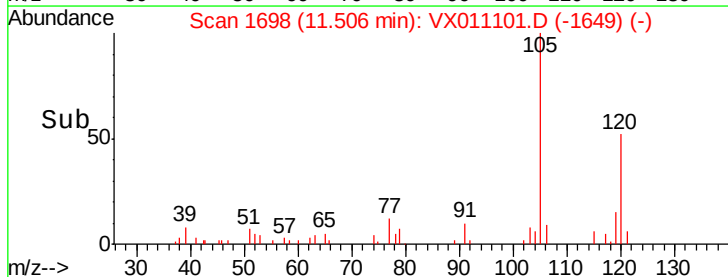
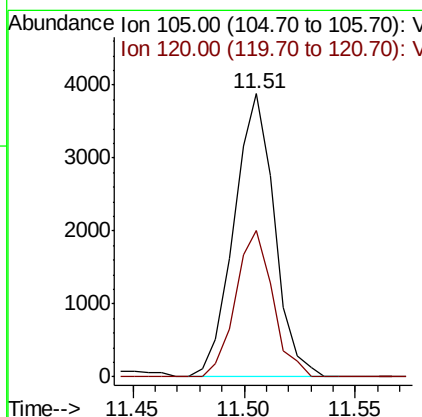
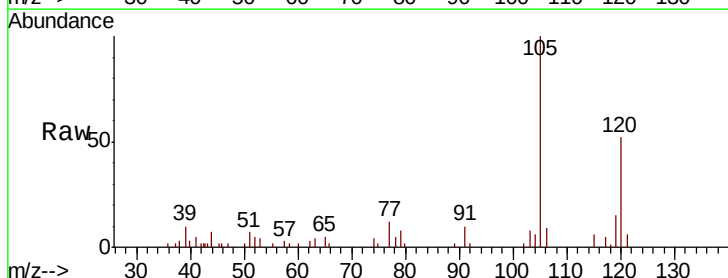
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#07

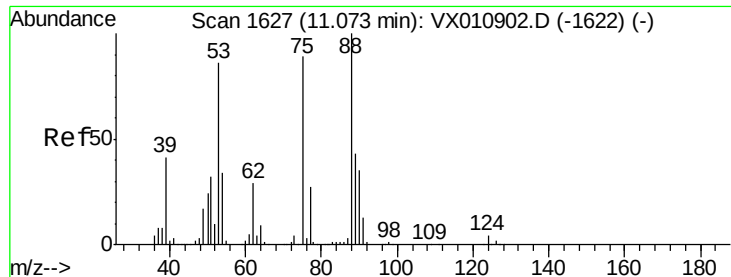
Tot Ion: 75 Resp: 69199
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.3 64.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.613 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX011101.D
 Acq: 26 Jul 2019 19:19

Tgt Ion: 105 Resp: 4915
 Ion Ratio Lower Upper
 105 100
 120 47.5 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 66.973 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011101.D

Acq: 26 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#07

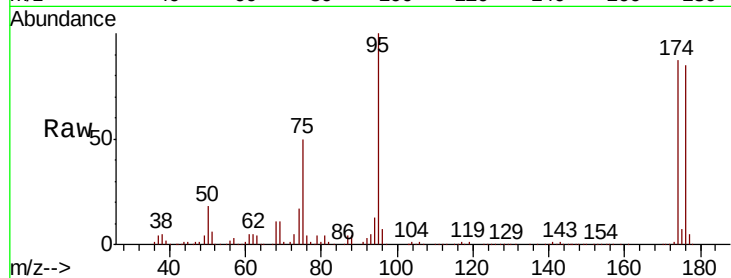
Tot Ion: 75 Resp: 69199

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

