

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\
 Data File : VX008883.D
 Acq On : 12 Apr 2019 13:57
 Operator : JC/SP
 Sample : K2366-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ118S-20190409

Quant Time: Apr 13 04:58:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	195487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	317040	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	277744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	119800	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	129754	45.51	ug/l	0.00
Spiked Amount			Recovery	=	91.02%	
35) Dibromofluoromethane	5.50	113	93026	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
50) Toluene-d8	8.71	98	395509	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
62) 4-Bromofluorobenzene	11.13	95	134389	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	

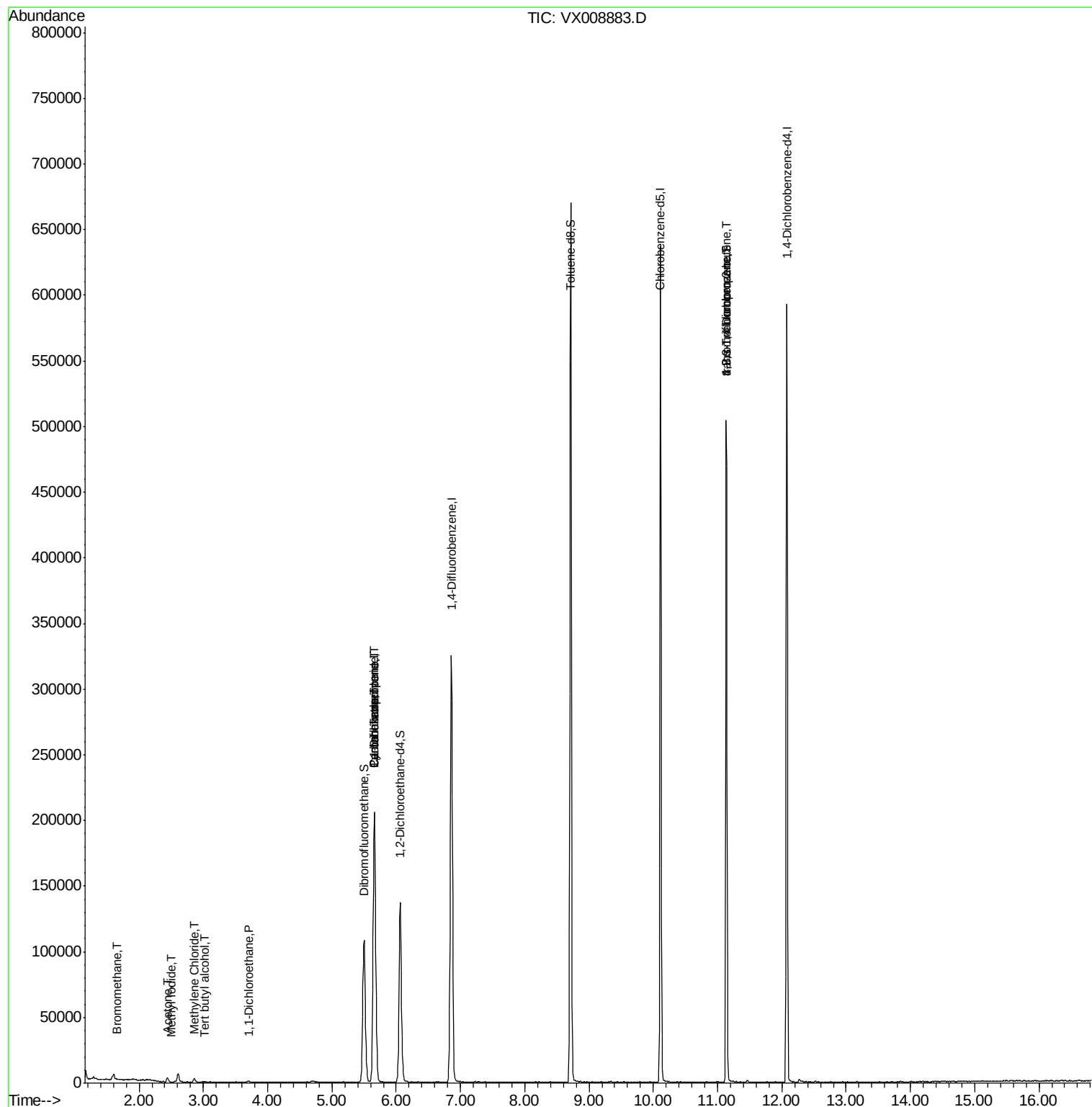
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	441	Below Cal	#	68
5) Bromomethane	1.65	94	232	2.034	ug/l	83
6) Chloroethane	1.73	64	297	Below Cal	#	43
10) Methyl Iodide	2.51	142	134	4.066	ug/l #	42
11) Tert butyl alcohol	3.02	59	367	0.550	ug/l #	72
16) Acetone	2.44	43	4022	2.449	ug/l	93
17) Carbon Disulfide	2.57	76	620	Below Cal	#	74
20) Methylene Chloride	2.86	84	994	0.362	ug/l	96
24) 1,1-Dichloroethane	3.70	63	1201	0.243	ug/l #	85
28) Bromochloromethane	5.11	49	44	Below Cal	#	22
31) Cyclohexane	5.65	56	4612	0.936	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15676	4.523	ug/l #	50
38) Carbon Tetrachloride	5.66	117	18475	6.441	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	68927	20.944	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	68927	57.733	ug/l #	9

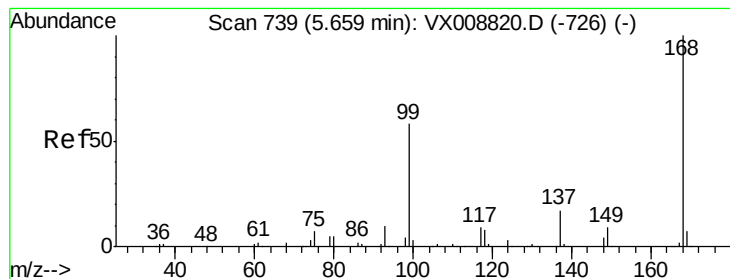
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

MSVOA_X

ClientSampleId :

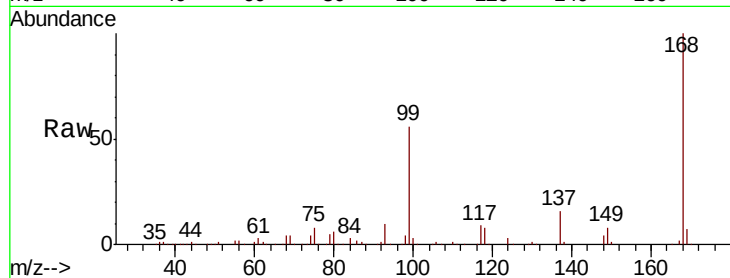
SA-PZ118S-20190409

Tot Ion:168 Resp: 195487

Ion Ratio Lower Upper

168 100

99 56.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

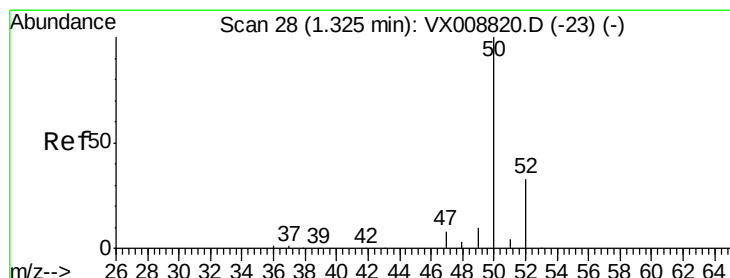
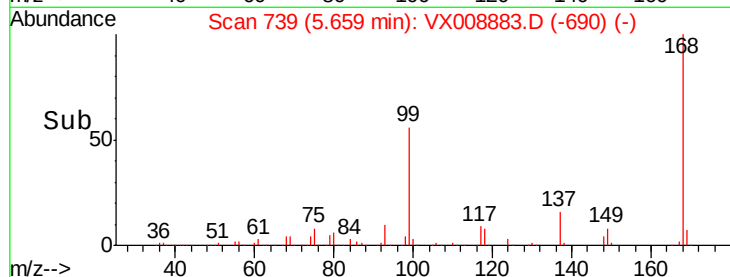
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008883.D

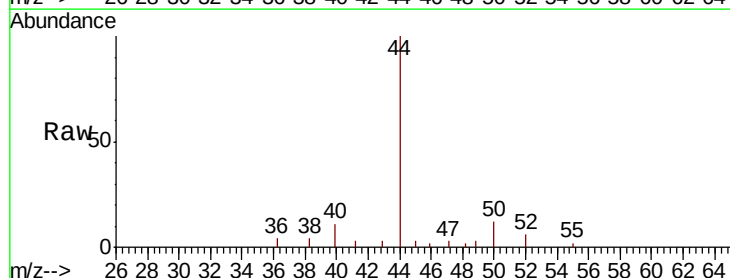
Acq: 12 Apr 2019 13:57

Tgt Ion: 50 Resp: 441

Ion Ratio Lower Upper

50 100

52 50.2 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

150

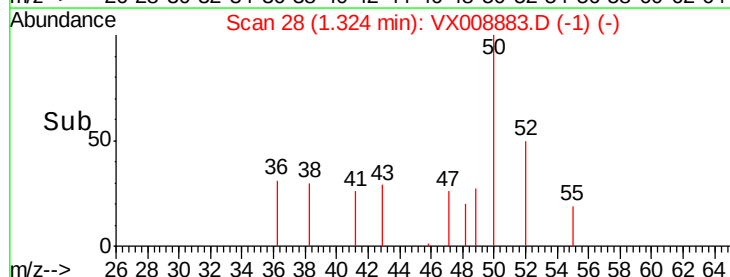
100

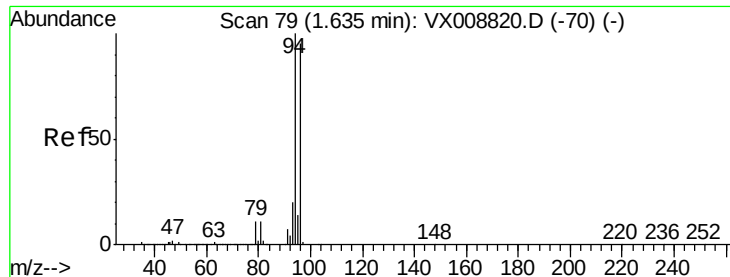
50

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 2.034 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

MSVOA_X

ClientSampleId :

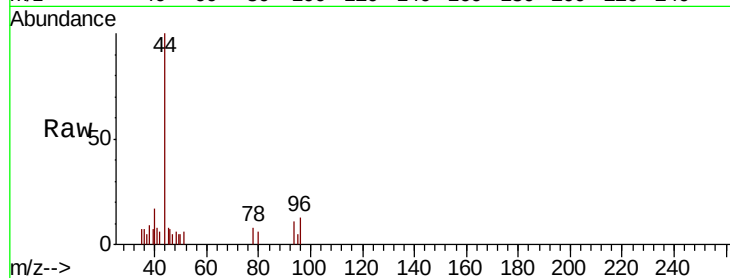
SA-PZ118S-20190409

Tot Ion: 94 Resp: 232

Ion Ratio Lower Upper

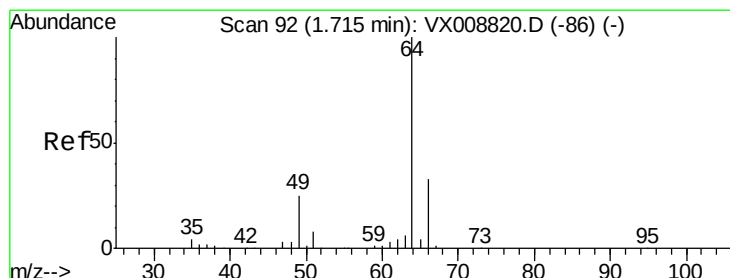
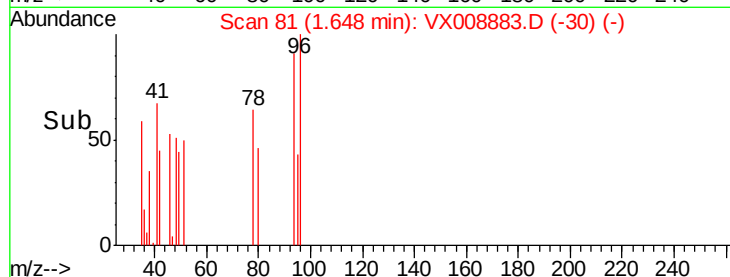
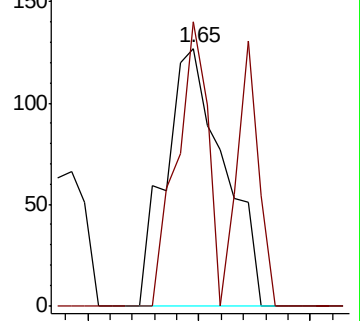
94 100

96 110.2 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008883.D

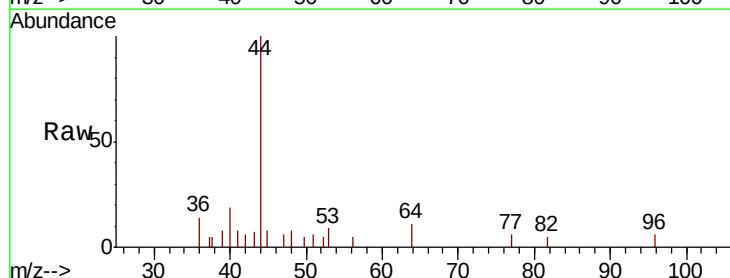
Acq: 12 Apr 2019 13:57

Tgt Ion: 64 Resp: 297

Ion Ratio Lower Upper

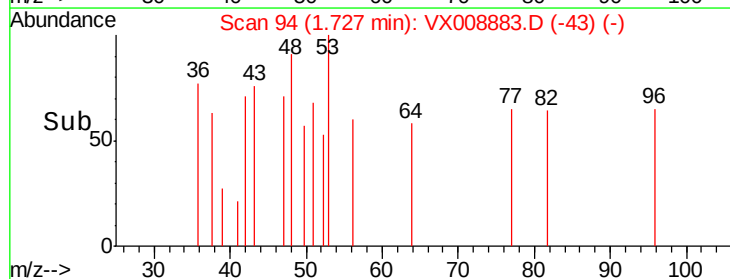
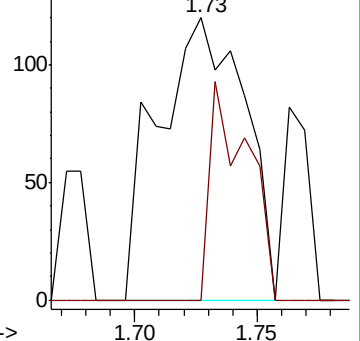
64 100

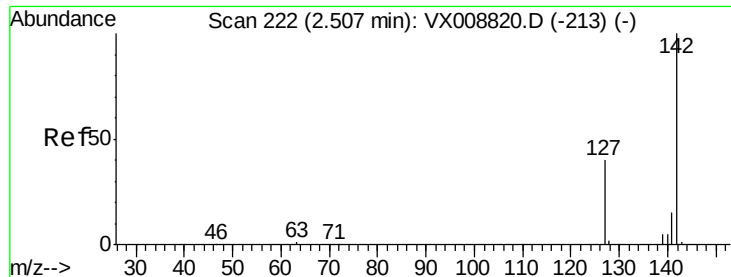
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

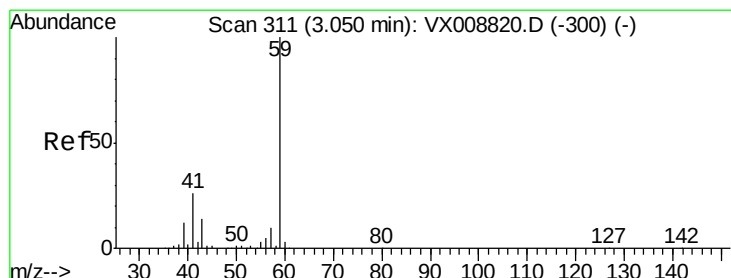
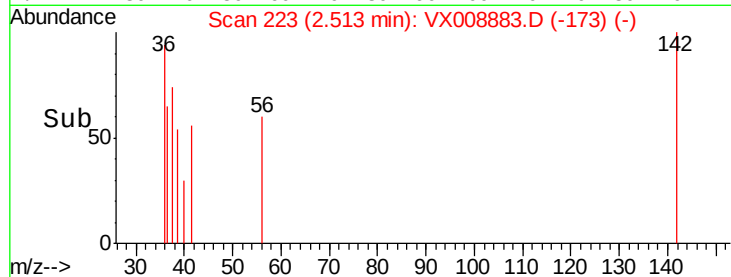
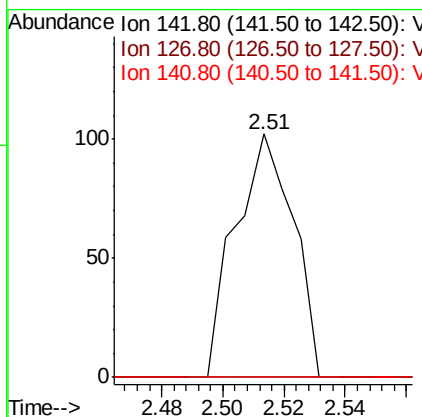
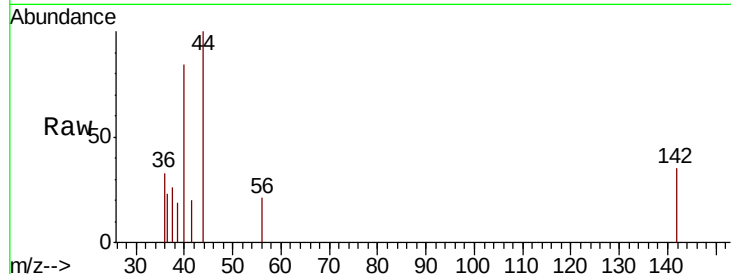




#10
Methvl Iodide
Concen: 4.066 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008883.D
Acq: 12 Apr 2019 13:57

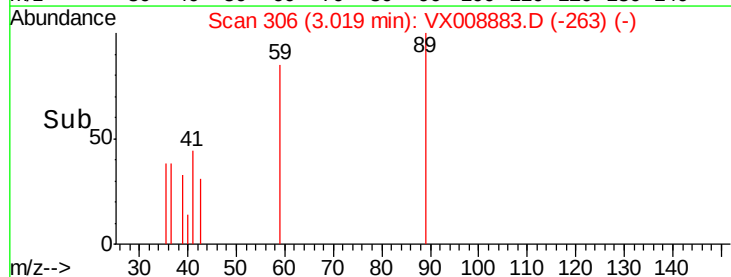
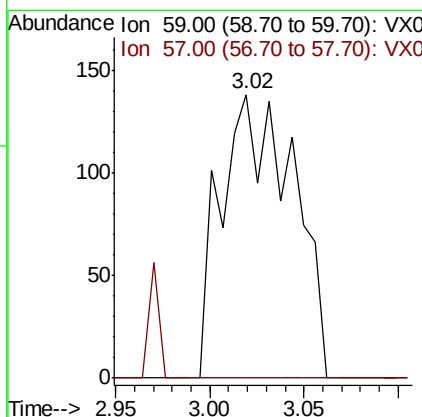
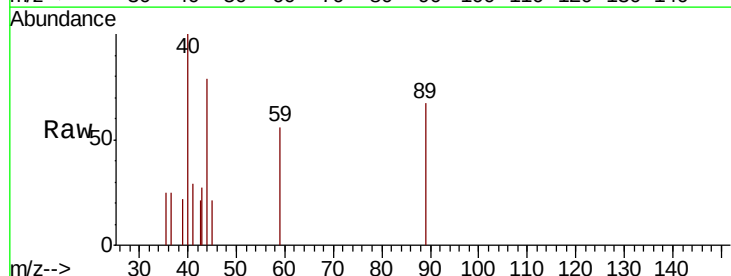
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ118S-20190409

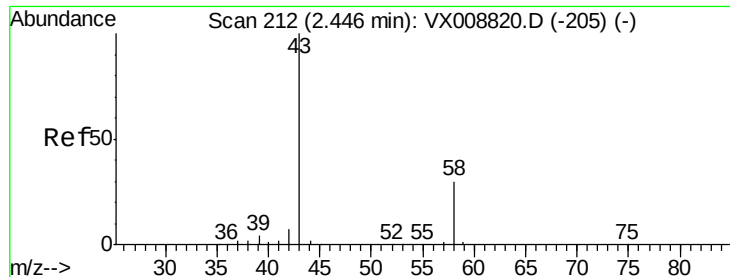
Tot Ion:142 Resp: 134
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.550 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008883.D
Acq: 12 Apr 2019 13:57

Tgt Ion: 59 Resp: 367
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 2.449 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

MSVOA_X

ClientSampleId :

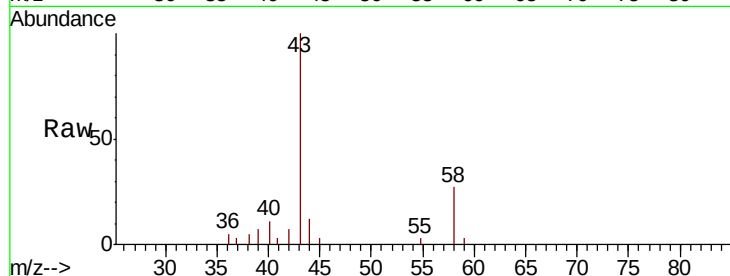
SA-PZ118S-20190409

Tot Ion: 43 Resp: 4022

Ion Ratio Lower Upper

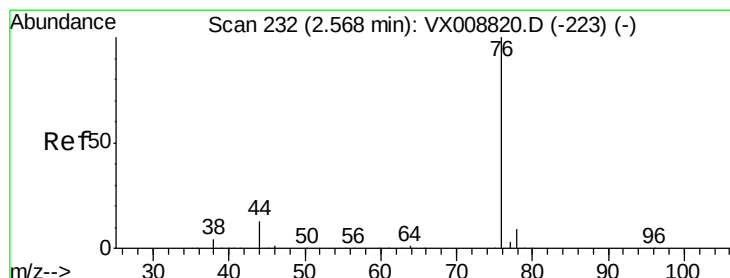
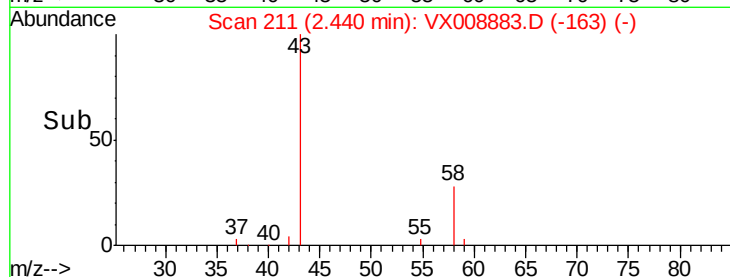
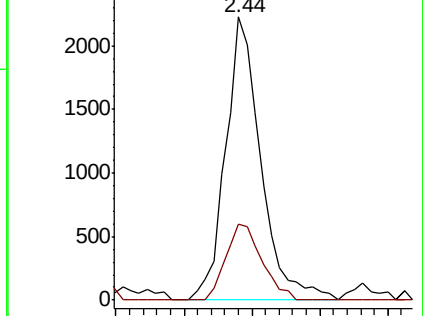
43 100

58 27.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008883.D

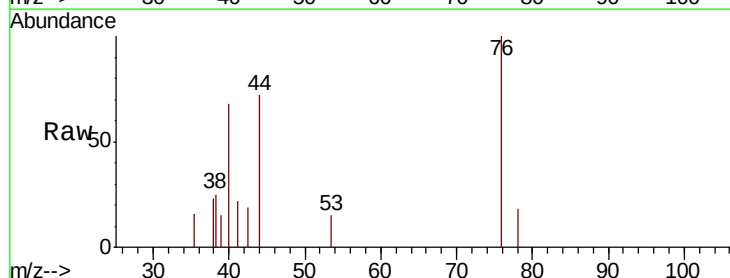
Acq: 12 Apr 2019 13:57

Tgt Ion: 76 Resp: 620

Ion Ratio Lower Upper

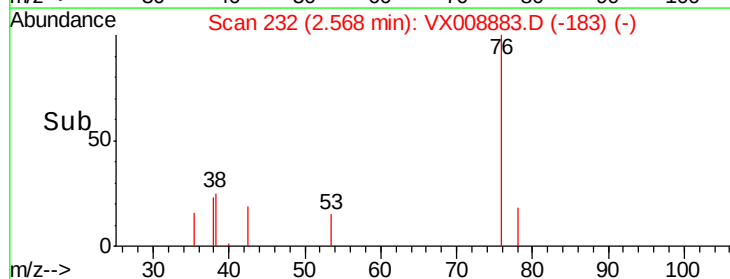
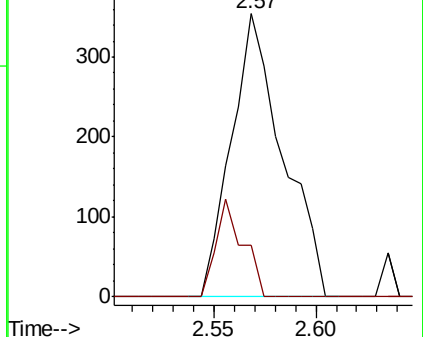
76 100

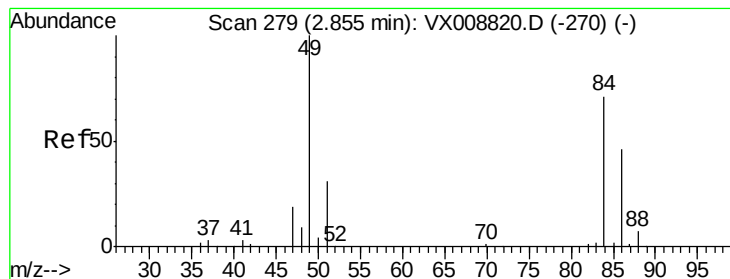
78 18.4 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.362 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118S-20190409

Tot Ion: 84 Resp: 994

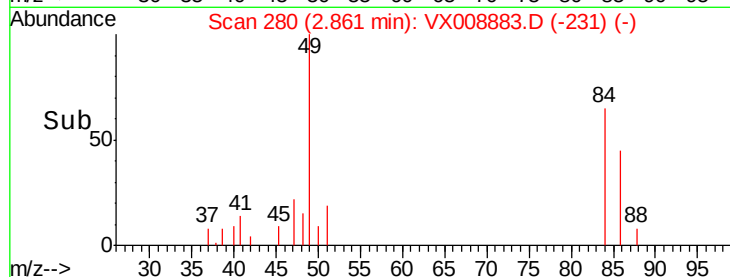
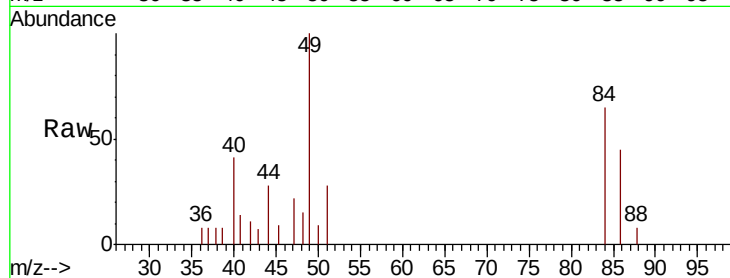
Ion Ratio Lower Upper

84 100

49 141.1 109.7 164.5

51 42.5 33.6 50.4

86 69.9 51.4 77.2



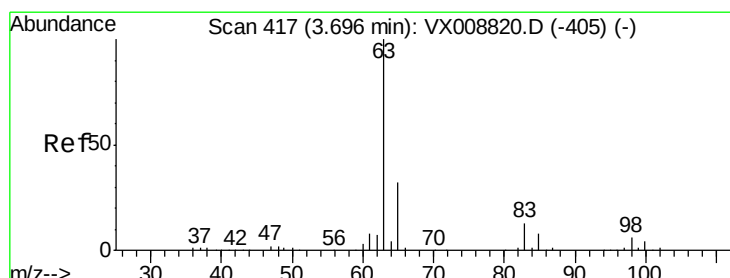
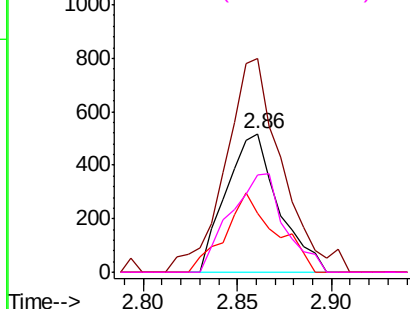
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#24

1,1-Dichloroethane

Concen: 0.243 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

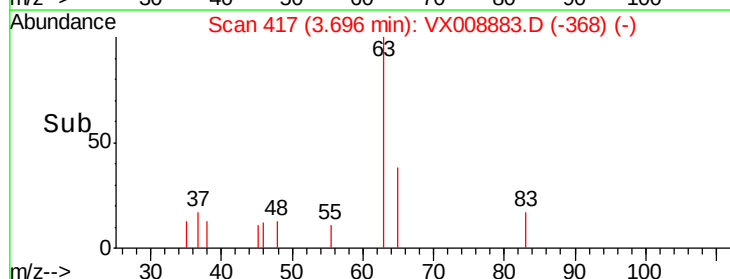
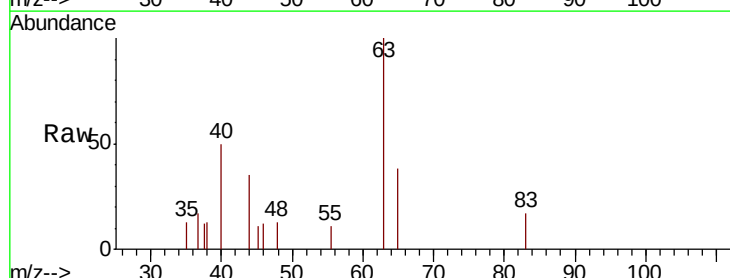
Tgt Ion: 63 Resp: 1201

Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

100 0.0 1.8 5.5#

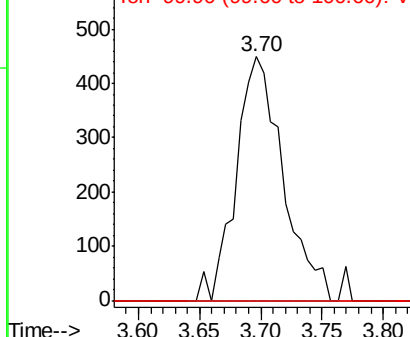


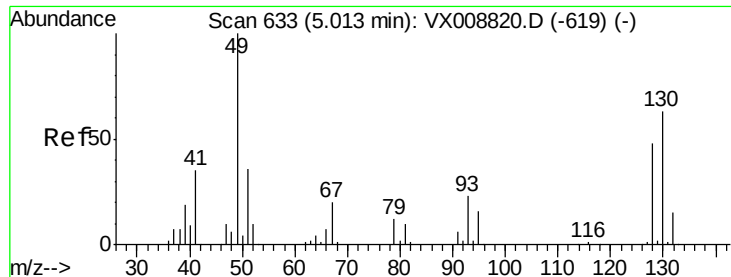
Abundance

Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.11 min Scan# 649

Delta R.T. 0.09 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

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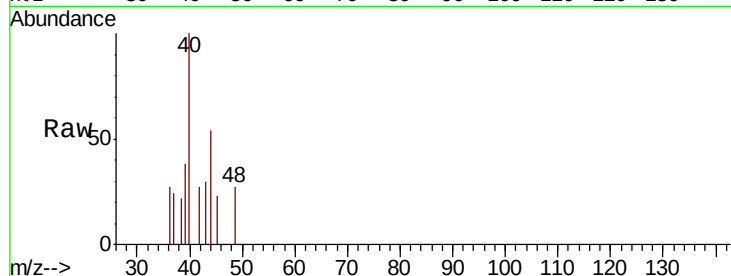
Tot Ion: 49 Resp: 44

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

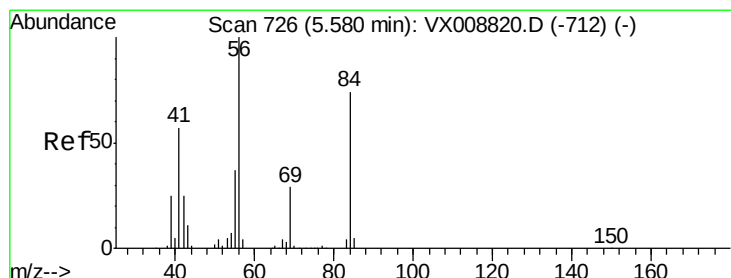
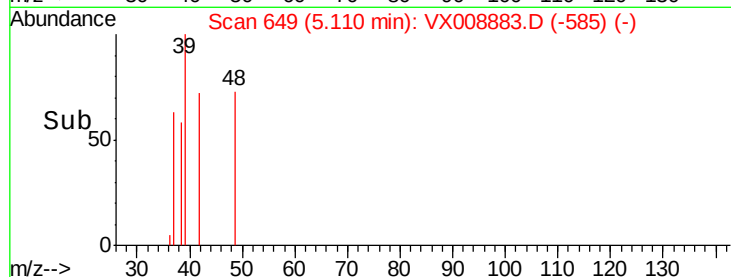
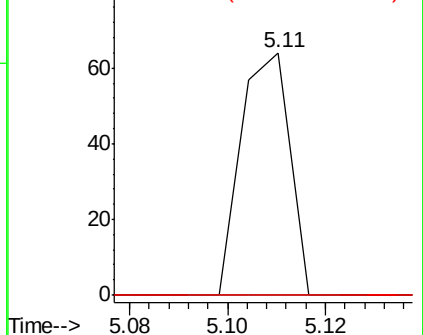
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.936 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

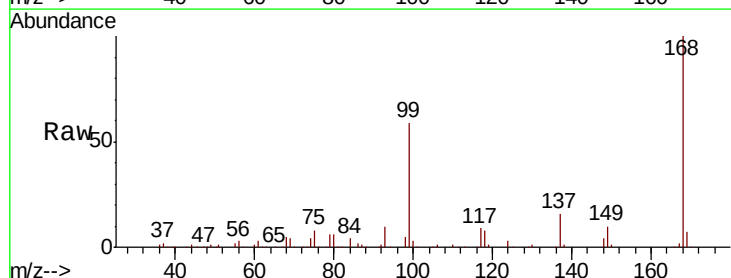
Tgt Ion: 56 Resp: 4612

Ion Ratio Lower Upper

56 100

69 149.2 22.6 33.8#

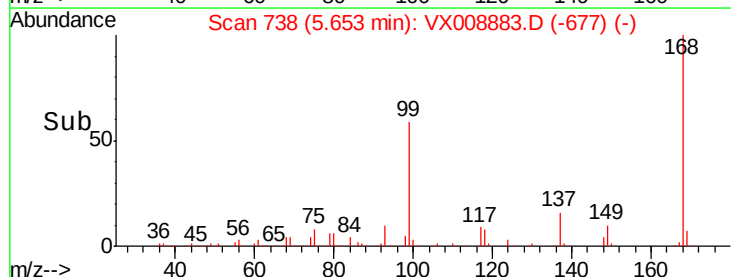
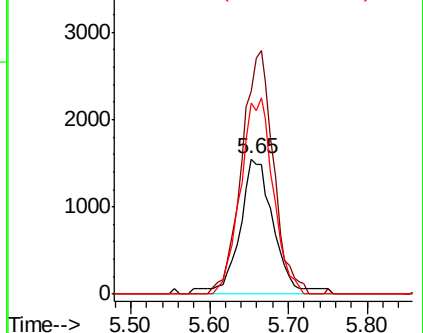
84 140.8 59.3 88.9#

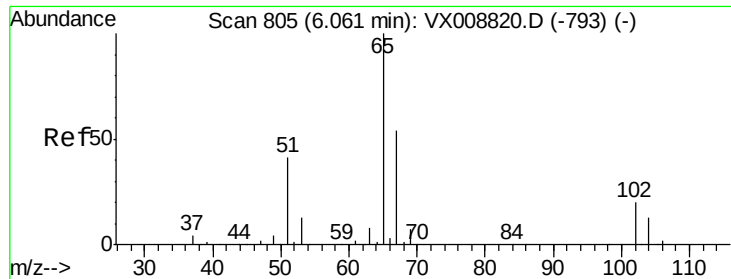


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

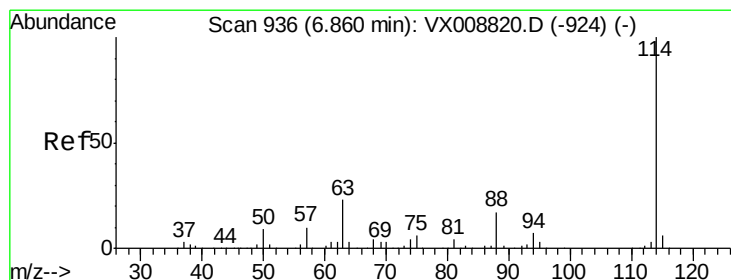
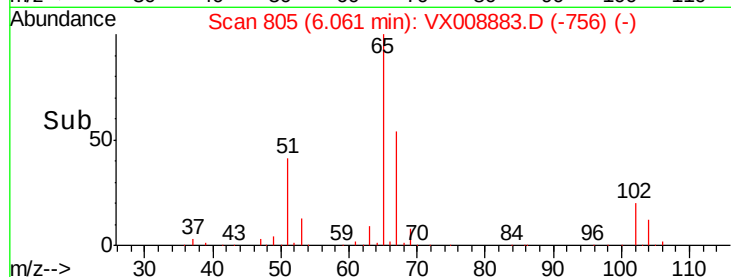
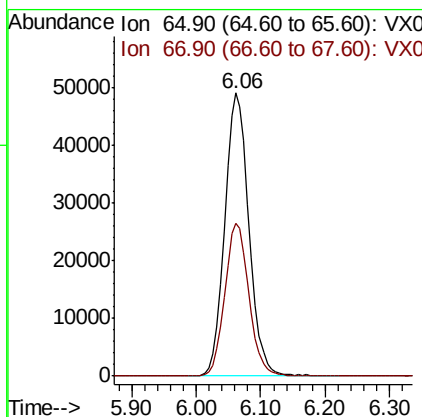
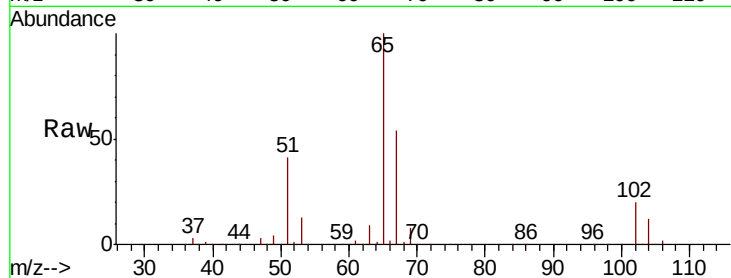




#33
 1,2-Dichloroethane-d4
 Concen: 45.507 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008883.D
 Acq: 12 Apr 2019 13:57

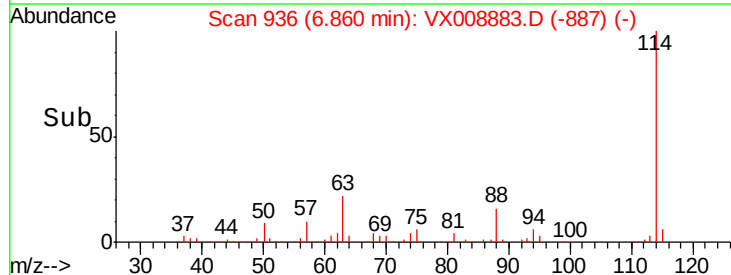
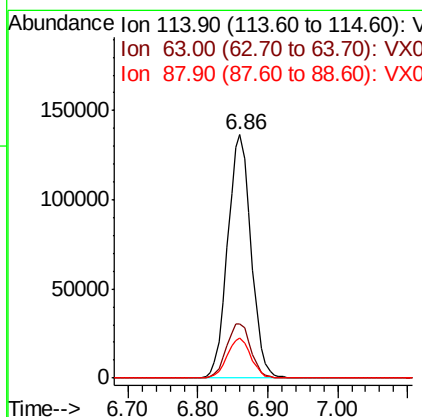
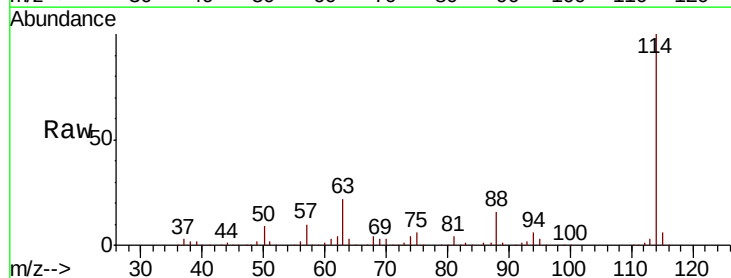
Instrument :
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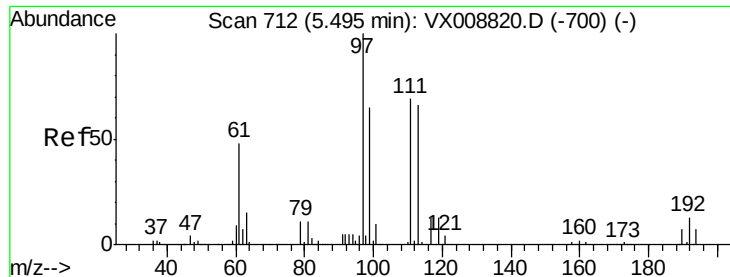
Tot Ion: 65 Resp: 129754
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008883.D
 Acq: 12 Apr 2019 13:57

Tgt Ion: 114 Resp: 317040
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 47.2
 88 16.5 0.0 34.0

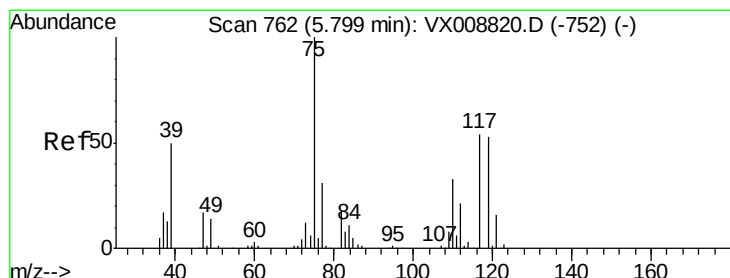
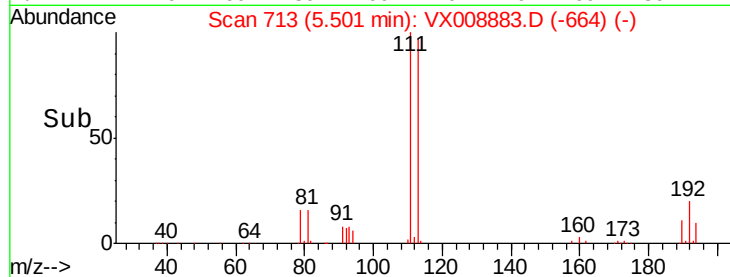
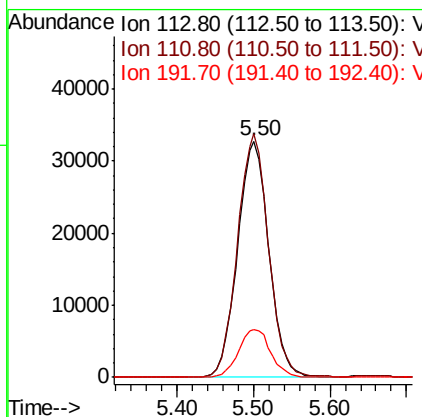
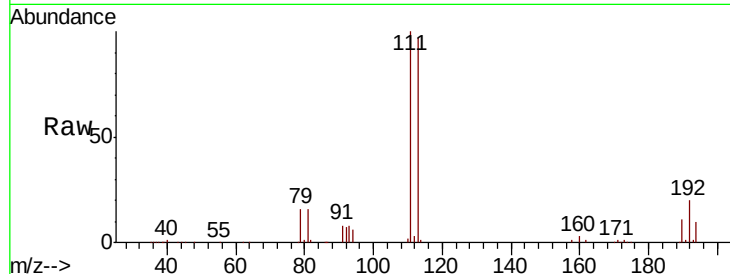




#35
Dibromofluoromethane
Concen: 45.893 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX008883.D
Acq: 12 Apr 2019 13:57

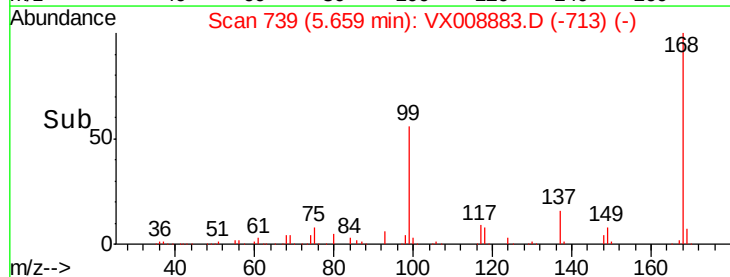
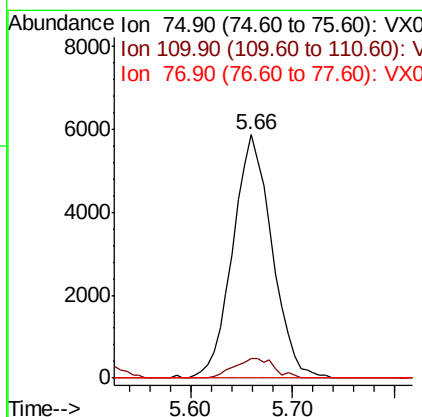
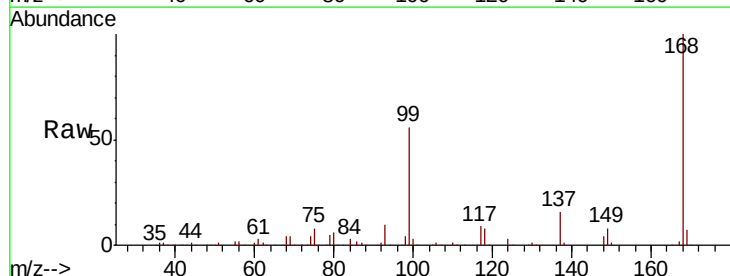
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ118S-20190409

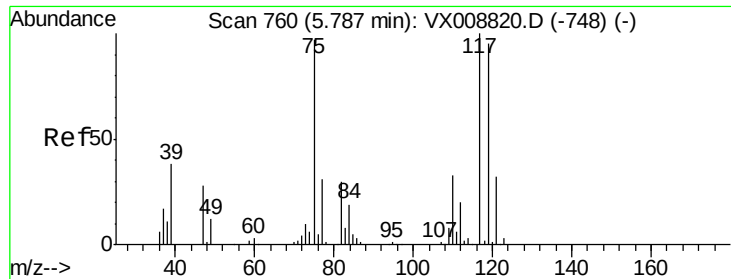
Tot Ion:113 Resp: 93026
Ion Ratio Lower Upper
113 100
111 102.1 83.4 125.2
192 20.8 16.1 24.1



#36
1,1-Dichloropropene
Concen: 4.523 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.14 min
Lab File: VX008883.D
Acq: 12 Apr 2019 13:57

Tgt Ion: 75 Resp: 15676
Ion Ratio Lower Upper
75 100
110 8.5 16.4 49.2#
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.441 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118S-20190409

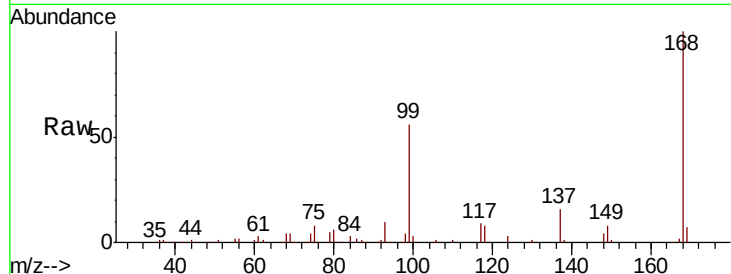
Tot Ion:117 Resp: 18475

Ion Ratio Lower Upper

117 100

119 5.1 75.0 112.6#

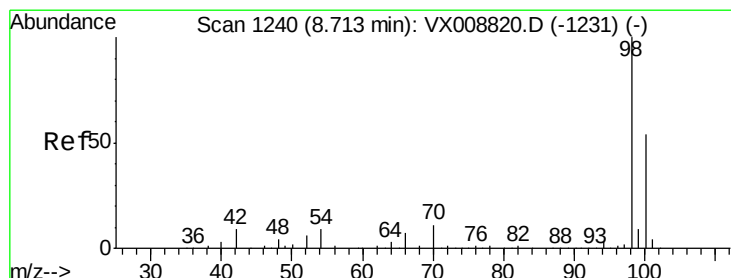
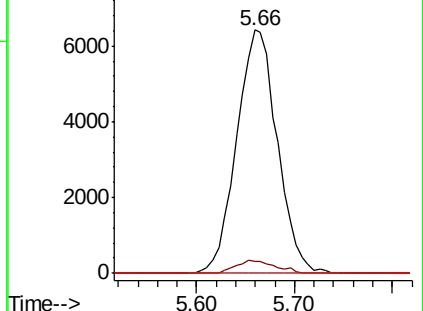
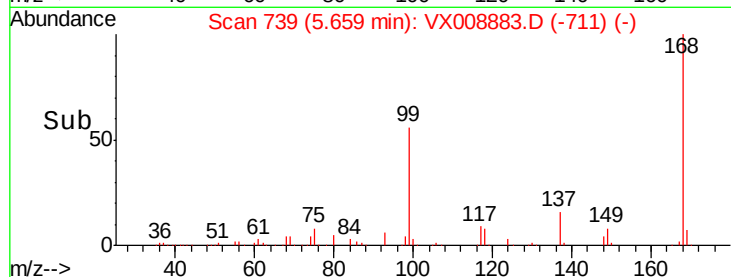
121 0.0 24.3 36.5#



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



#50

Toluene-d8

Concen: 49.003 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008883.D

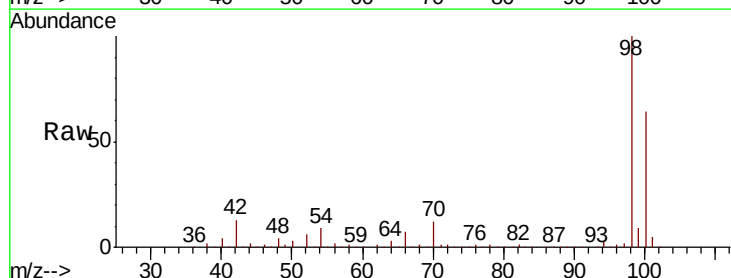
Acq: 12 Apr 2019 13:57

Tgt Ion: 98 Resp: 395509

Ion Ratio Lower Upper

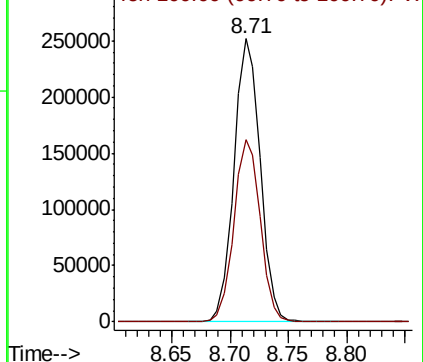
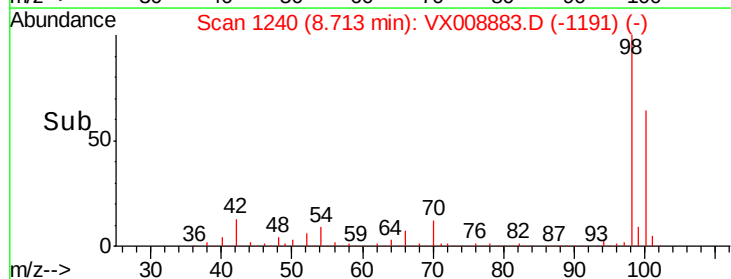
98 100

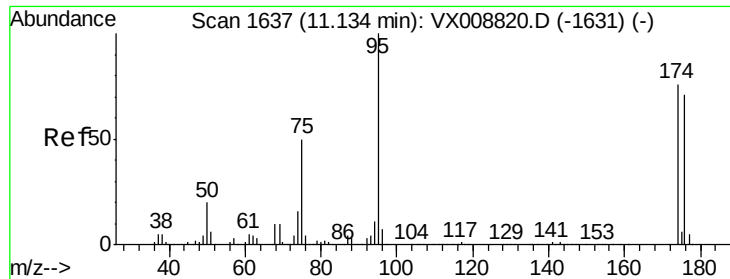
100 64.8 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.954 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118S-20190409

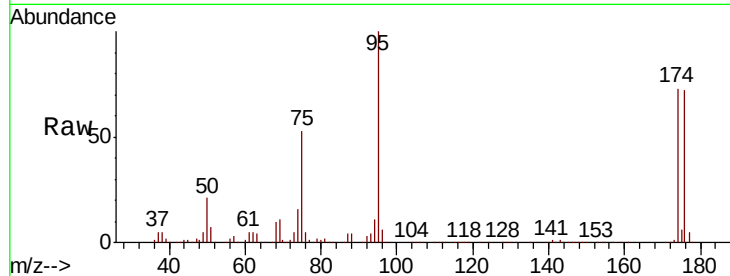
Tot Ion: 95 Resp: 134389

Ion Ratio Lower Upper

95 100

174 79.2 0.0 151.8

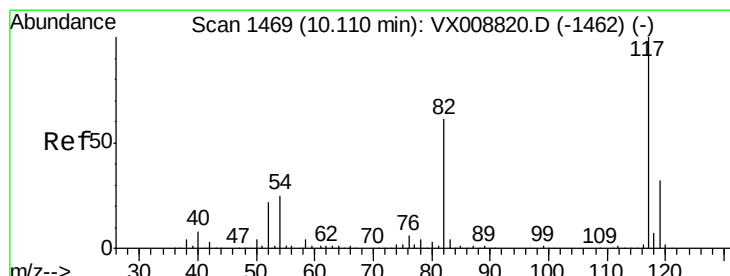
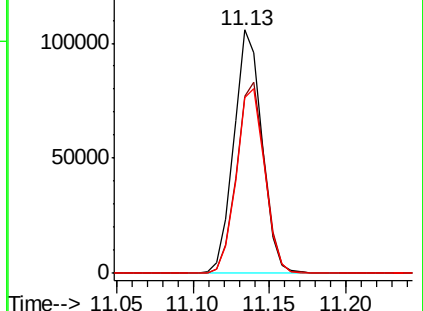
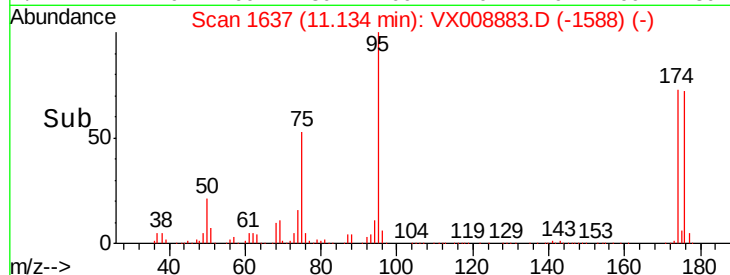
176 77.0 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008883.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX008883.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX008883.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

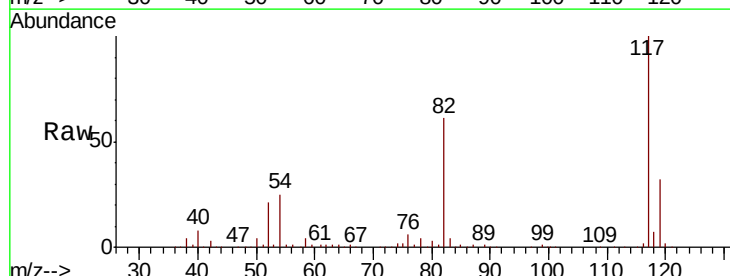
Tgt Ion: 117 Resp: 277744

Ion Ratio Lower Upper

117 100

82 60.7 49.6 74.4

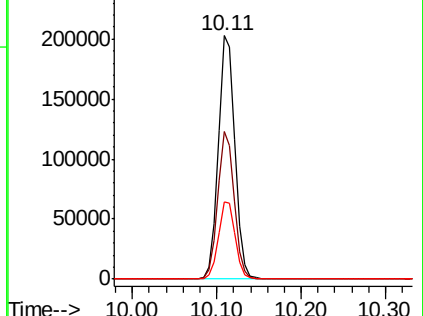
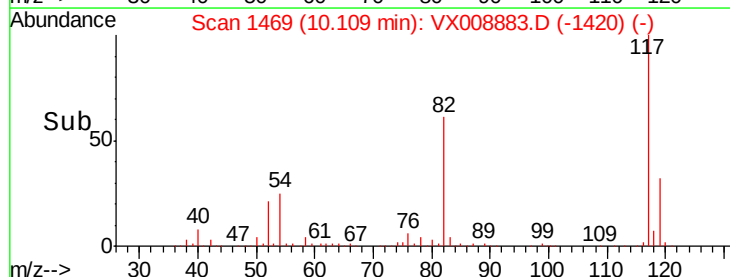
119 31.7 25.0 37.4

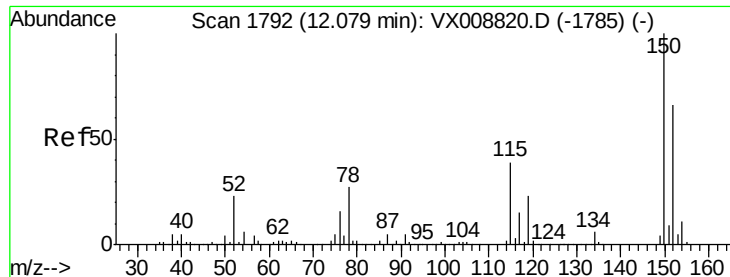


Abundance Ion 116.90 (116.60 to 117.60): VX008883.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX008883.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX008883.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118S-20190409

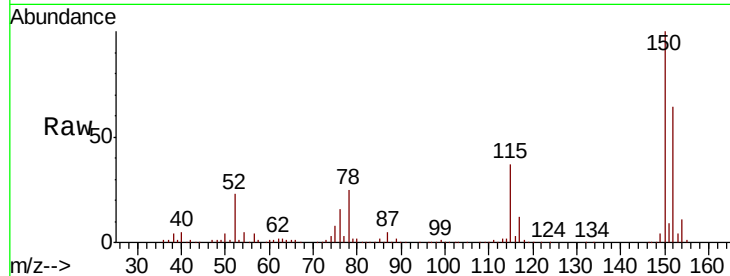
Tot Ion:152 Resp: 119800

Ion Ratio Lower Upper

152 100

115 60.3 43.5 130.5

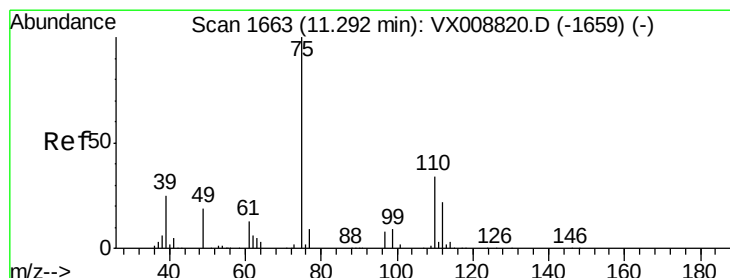
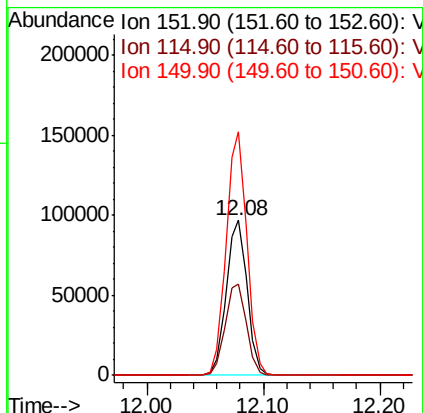
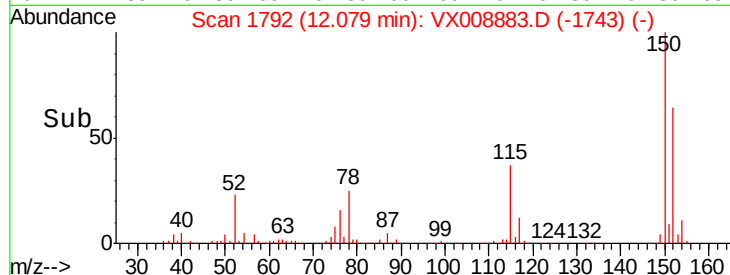
150 156.3 0.0 348.8



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: 20.944 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008883.D

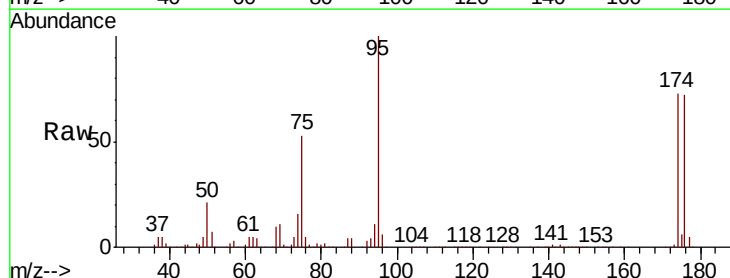
Acq: 12 Apr 2019 13:57

Tgt Ion: 75 Resp: 68927

Ion Ratio Lower Upper

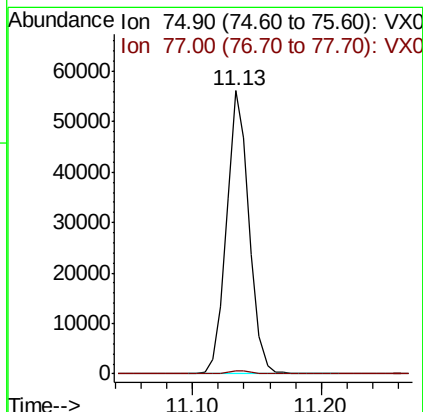
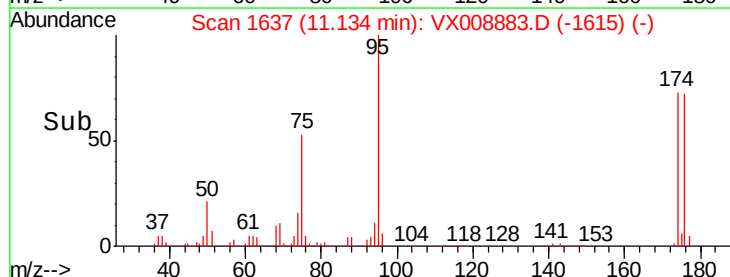
75 100

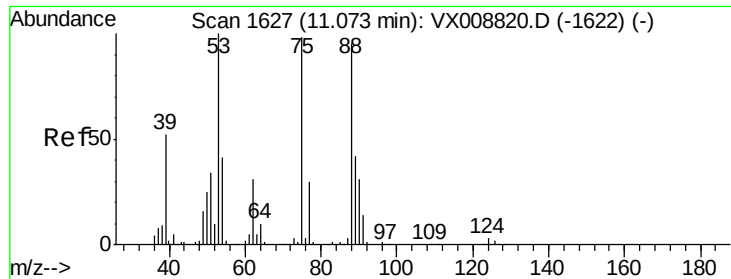
77 1.3 22.3 66.8#



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: 57.733 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008883.D

Acq: 12 Apr 2019 13:57

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118S-20190409

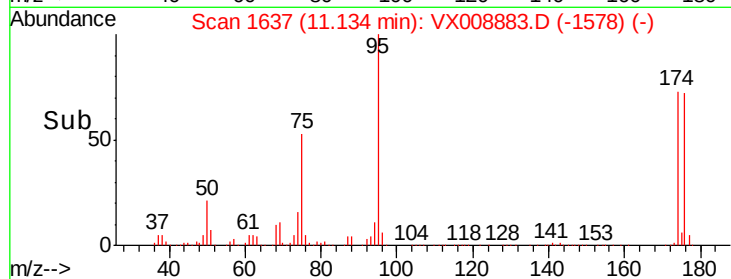
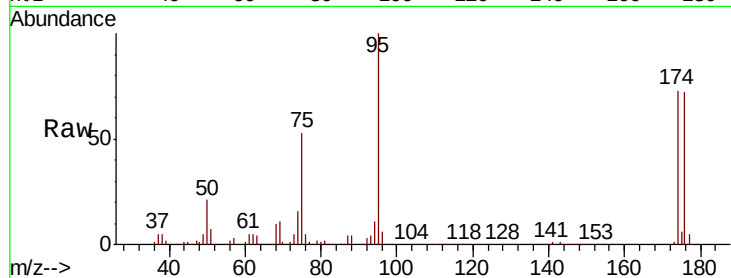
Tot Ion: 75 Resp: 68927

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#



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

