

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\
 Data File : VX004294.D
 Acq On : 29 Aug 2018 15:50
 Operator : JC/MD
 Sample : J4681-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW04S-M12W4-082318

Quant Time: Aug 30 02:09:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	267176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	416408	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	387214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194121	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	187905	53.96	ug/l	0.00
Spiked Amount			Recovery	=	107.92%	
35) Dibromofluoromethane	5.50	113	166172	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	
50) Toluene-d8	8.71	98	589496	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
62) 4-Bromofluorobenzene	11.14	95	203383	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	

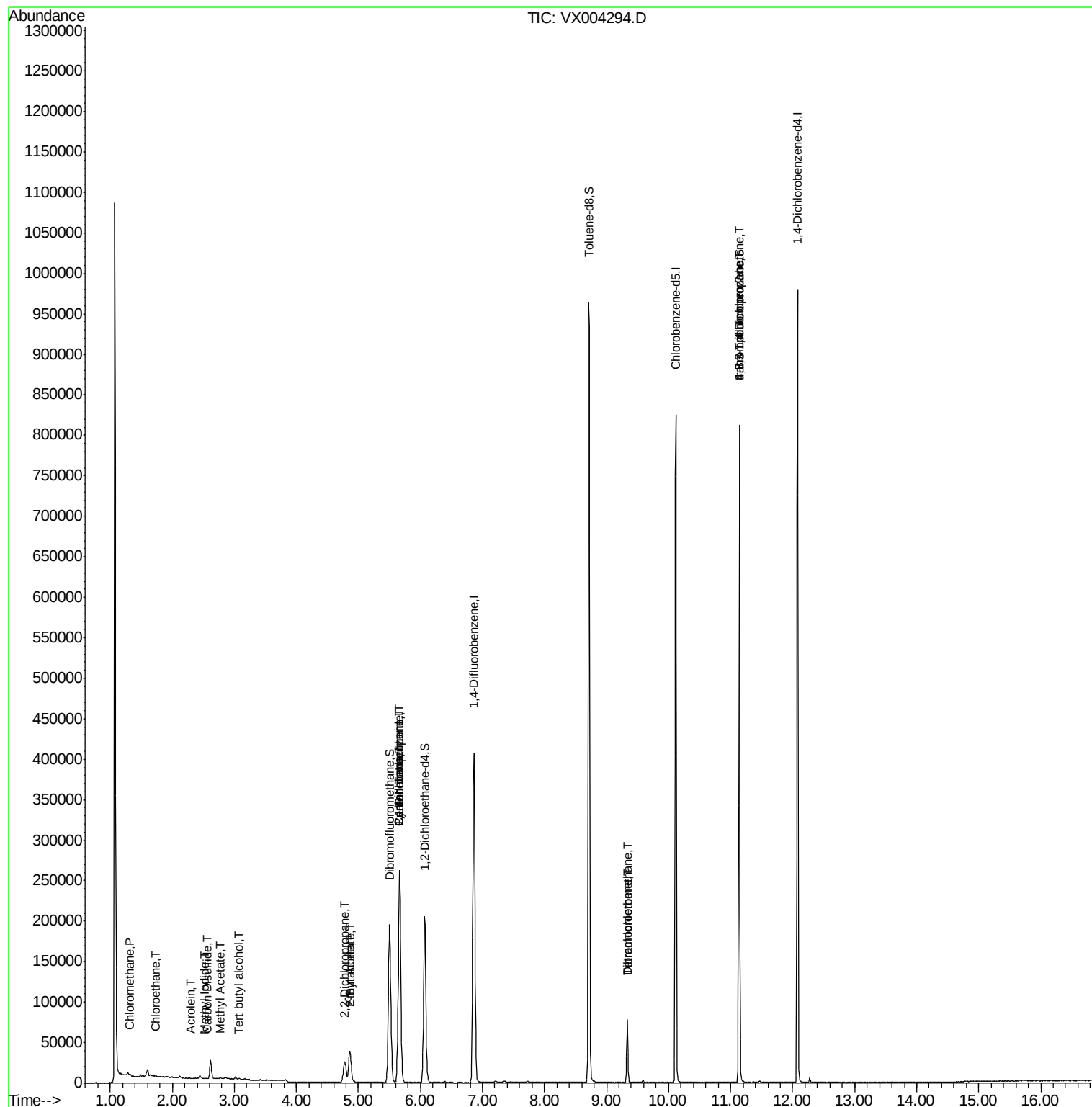
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1329	0.68	ug/l	96
5) Bromomethane	1.65	94	1238	Below	Cal	95
6) Chloroethane	1.73	64	287	1.07	ug/l #	53
10) Methyl Iodide	2.52	142	468	4.39	ug/l #	79
11) Tert butyl alcohol	3.07	59	1250	1.68	ug/l #	85
13) Acrolein	2.29	56	53	0.30	ug/l #	1
16) Acetone	2.45	43	3554	Below	Cal	96
17) Carbon Disulfide	2.56	76	448	0.85	ug/l #	84
18) Methyl Acetate	2.78	43	1059	0.20	ug/l	92
25) 2-Butanone	4.86	43	67117	26.22	ug/l #	47
26) 2,2-Dichloropropane	4.79	77	2521	0.57	ug/l #	52
31) Cyclohexane	5.65	56	4469	0.92	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17862	3.82	ug/l #	49
37) Ethyl Acetate	4.86	43	67117	14.58	ug/l	98
38) Carbon Tetrachloride	5.67	117	23758	5.39	ug/l #	15
60) Dibromochloromethane	9.34	129	13954	4.05	ug/l #	11
64) Tetrachloroethene	9.34	164	15990	4.18	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	97876	24.79	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	97876	80.44	ug/l #	10
94) Hexachlorobutadiene	13.77	225	109	Below	Cal #	20

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

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QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.00 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

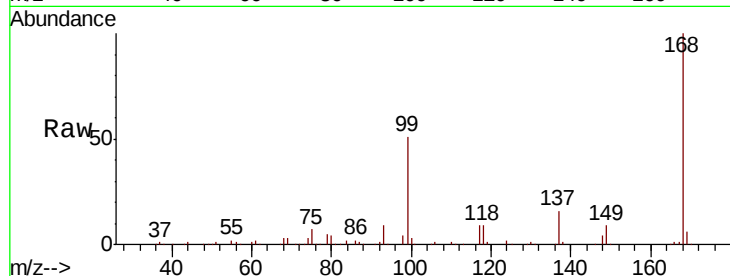
CPA-CPMW04S-M12W4-082318

Tot Ion:168 Resp: 267176

Ion Ratio Lower Upper

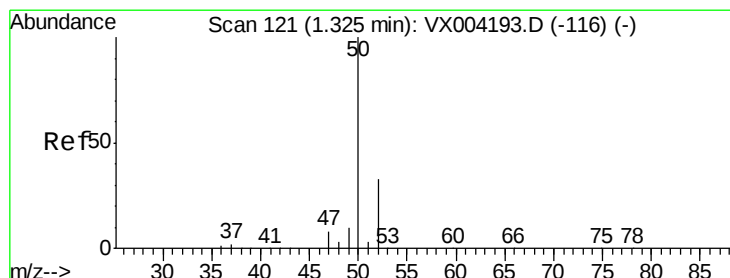
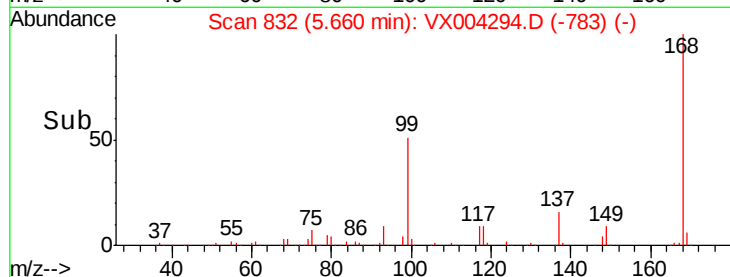
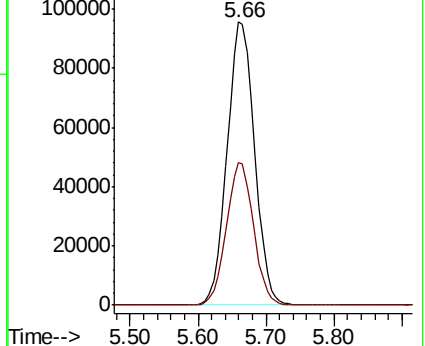
168 100

99 50.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.68 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004294.D

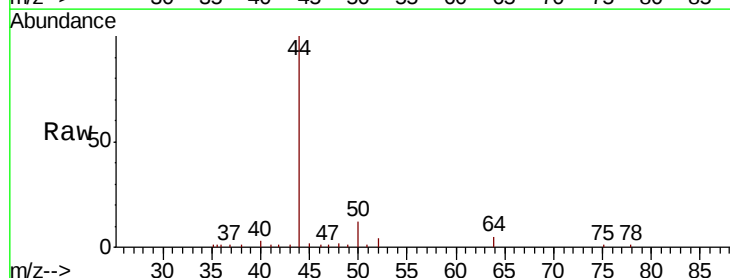
Acq: 29 Aug 2018 15:50

Tgt Ion: 50 Resp: 1329

Ion Ratio Lower Upper

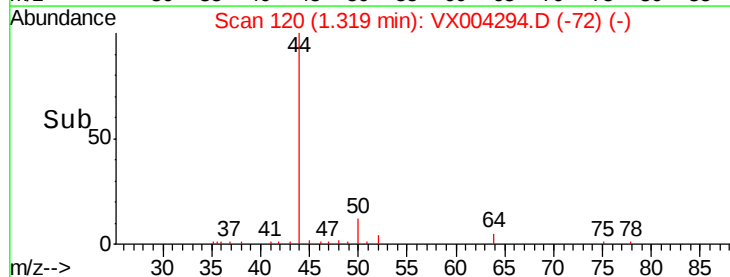
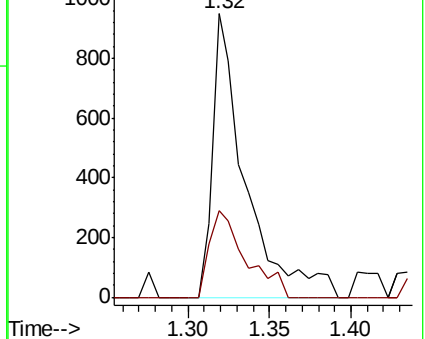
50 100

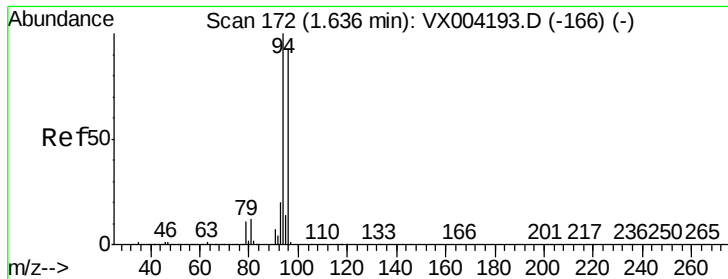
52 30.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

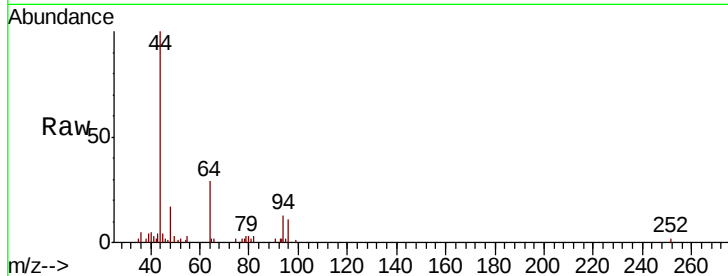
CPA-CPMW04S-M12W4-082318

Tot Ion: 94 Resp: 1238

Ion Ratio Lower Upper

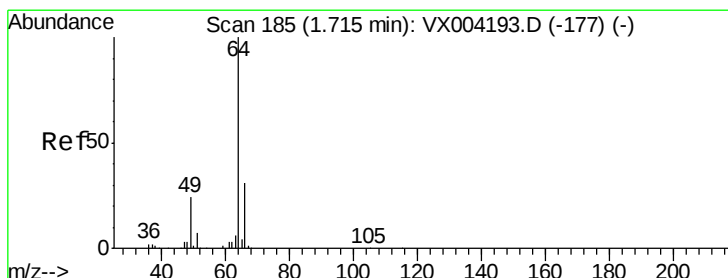
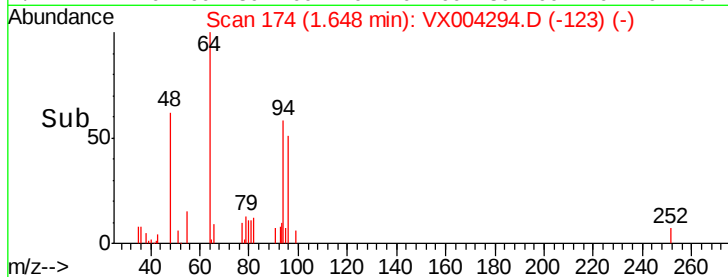
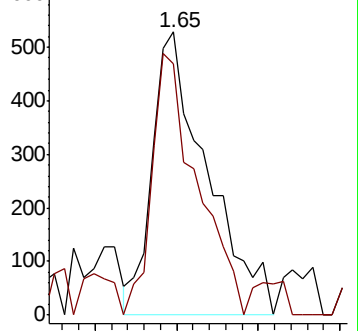
94 100

96 88.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.07 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX004294.D

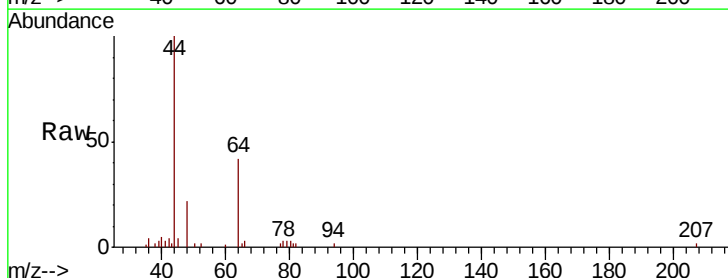
Acq: 29 Aug 2018 15:50

Tgt Ion: 64 Resp: 287

Ion Ratio Lower Upper

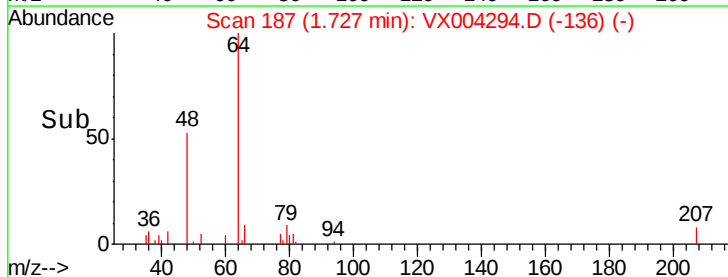
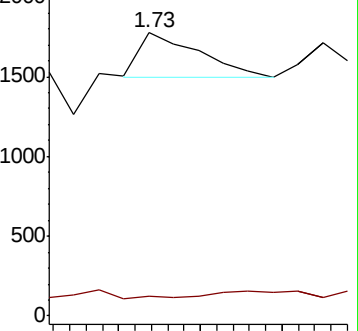
64 100

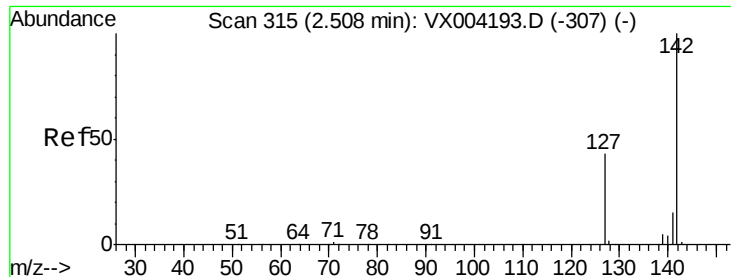
66 5.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

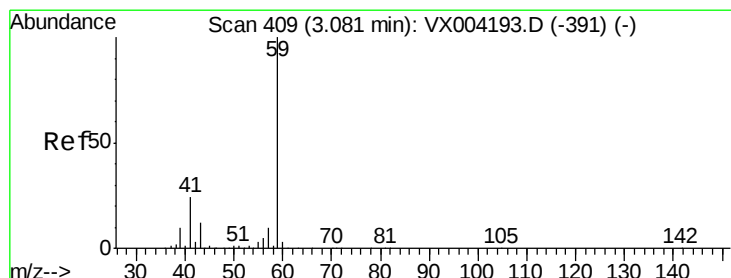
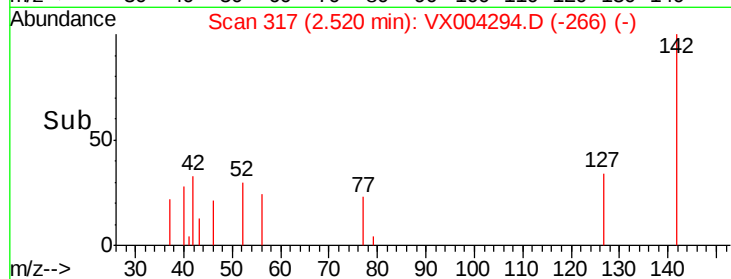
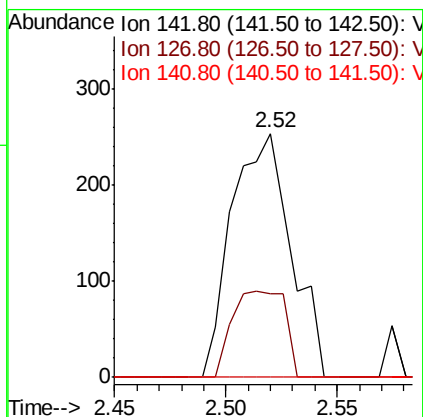
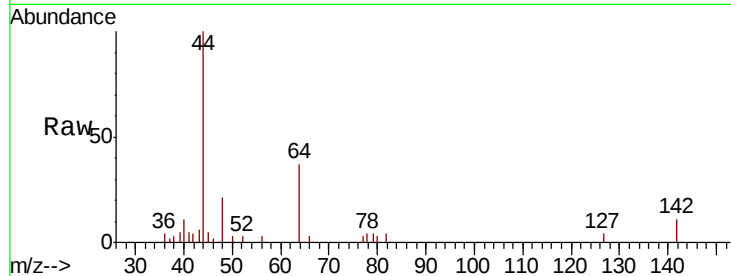




#10
Methyl Iodide
Concen: 4.39 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004294.D
Acq: 29 Aug 2018 15:50

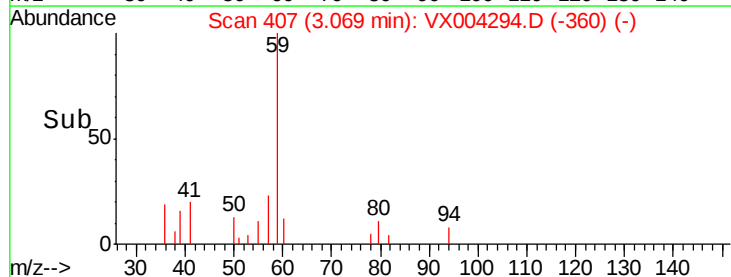
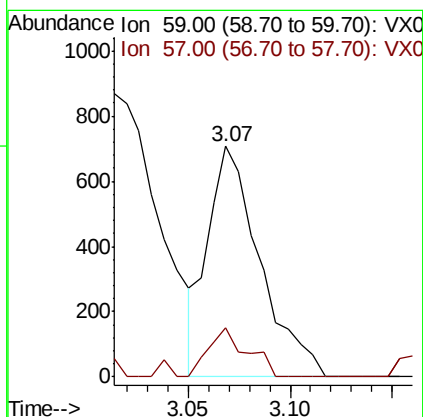
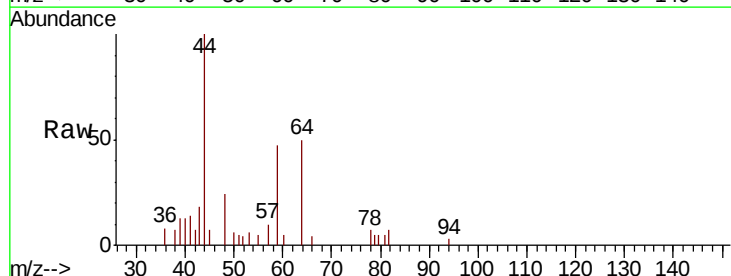
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW04S-M12W4-082318

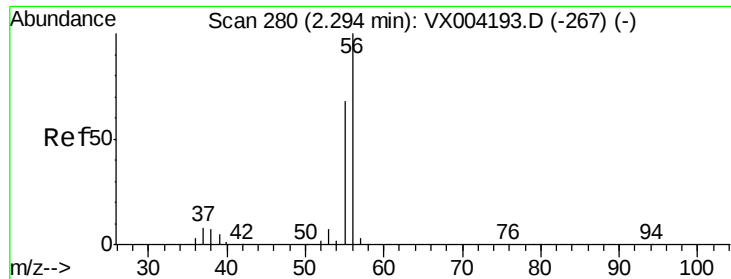
Tot Ion:142 Resp: 468
Ion Ratio Lower Upper
142 100
127 31.4 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.68 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX004294.D
Acq: 29 Aug 2018 15:50

Tgt Ion: 59 Resp: 1250
Ion Ratio Lower Upper
59 100
57 15.9 8.2 12.4#





#13

Acrolein

Concen: 0.30 ua/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

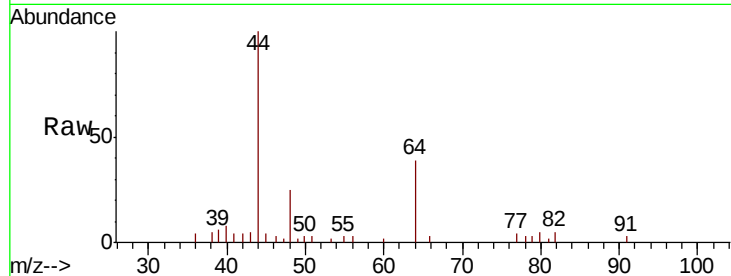
CPA-CPMW04S-M12W4-082318

Tot Ion: 56 Resp: 53

Ion Ratio Lower Upper

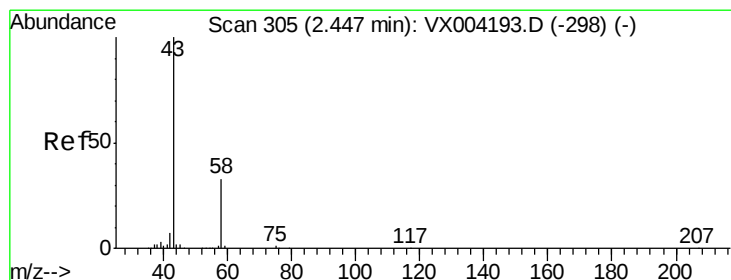
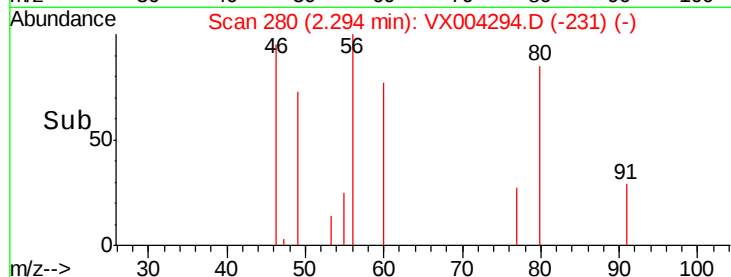
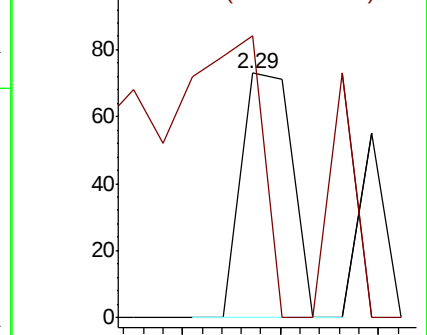
56 100

55 324.5 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004294.D

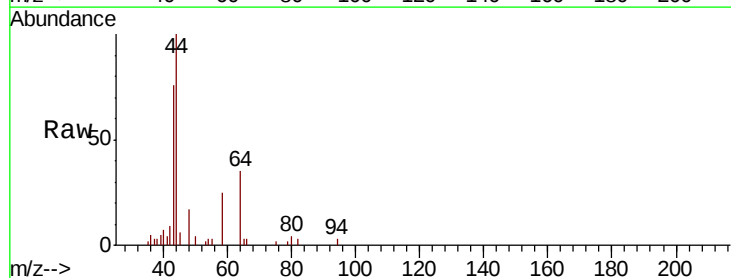
Acq: 29 Aug 2018 15:50

Tgt Ion: 43 Resp: 3554

Ion Ratio Lower Upper

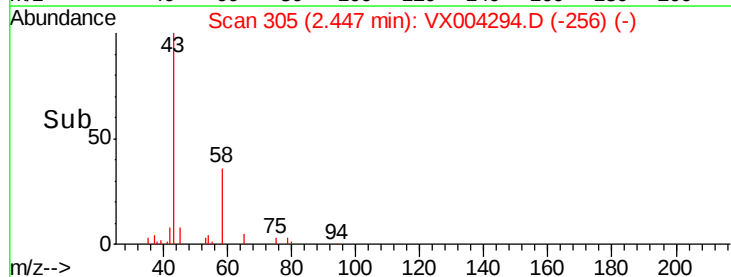
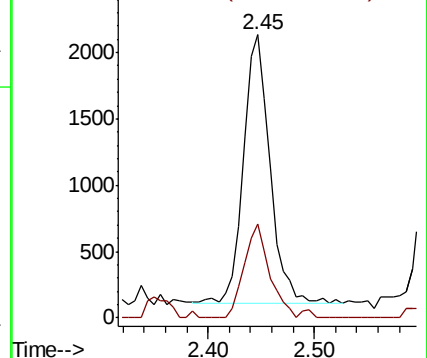
43 100

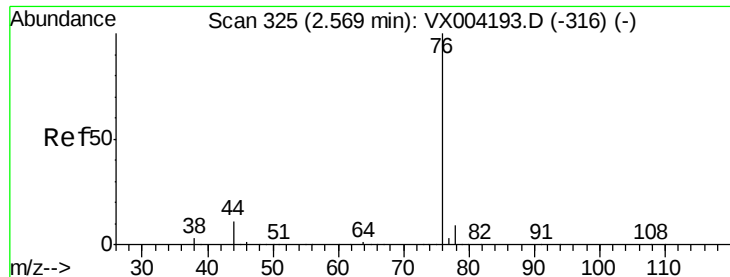
58 35.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.85 ug/l

RT: 2.56 min Scan# 323

Delta R.T. -0.01 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

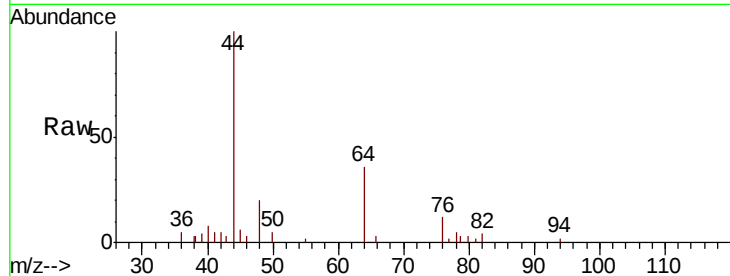
CPA-CPMW04S-M12W4-082318

Tot Ion: 76 Resp: 448

Ion Ratio Lower Upper

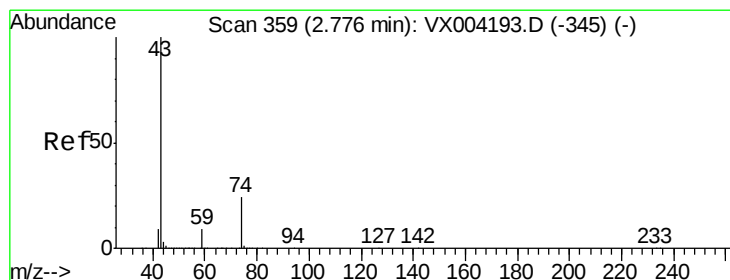
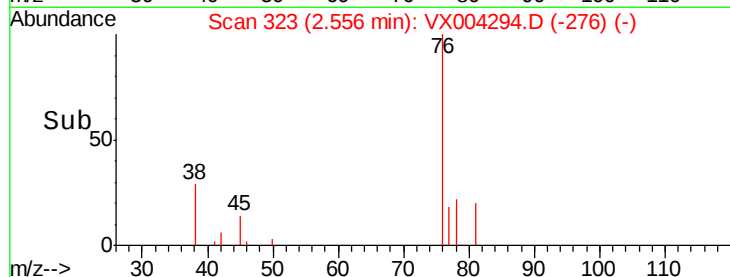
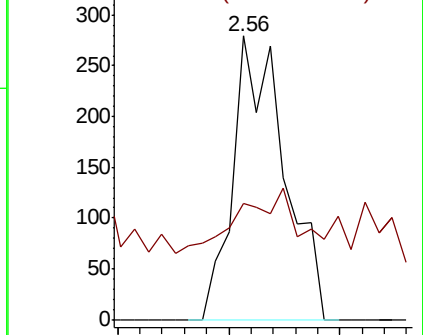
76 100

78 14.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.20 ug/l

RT: 2.78 min Scan# 359

Delta R.T. 0.00 min

Lab File: VX004294.D

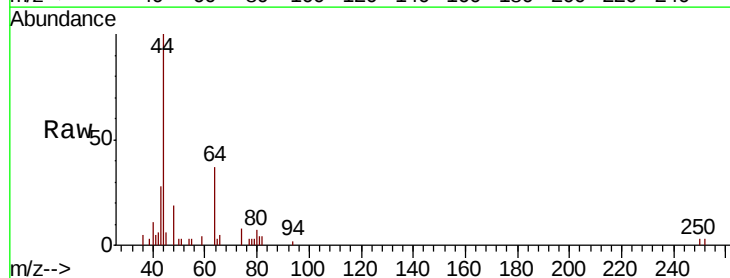
Acq: 29 Aug 2018 15:50

Tgt Ion: 43 Resp: 1059

Ion Ratio Lower Upper

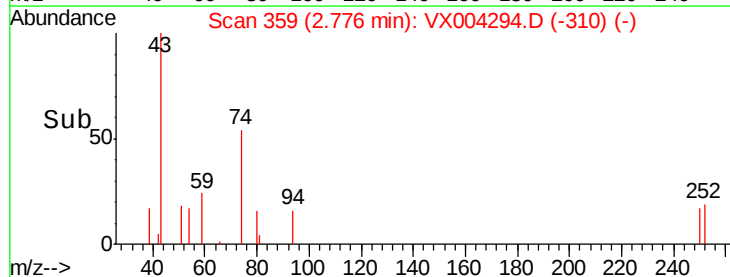
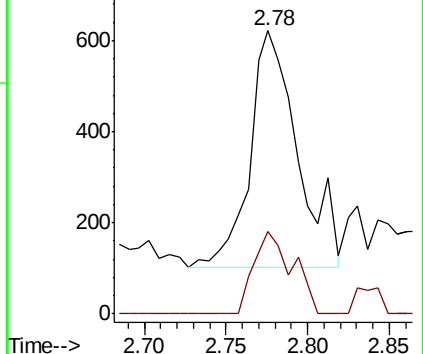
43 100

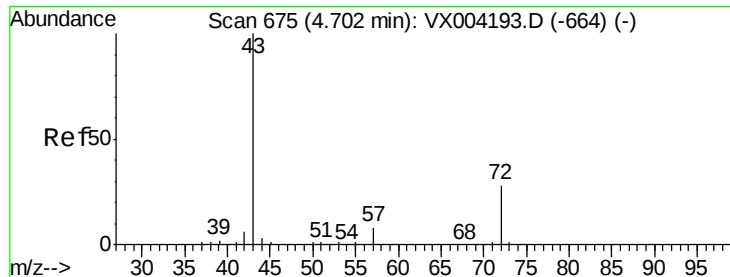
74 28.4 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 26.22 ug/l

RT: 4.86 min Scan# 701

Delta R.T. 0.16 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

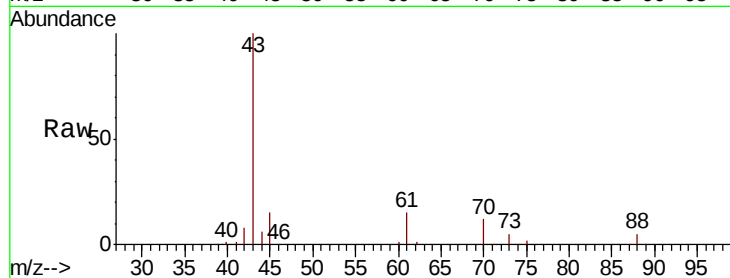
CPA-CPMW04S-M12W4-082318

Tot Ion: 43 Resp: 67117

Ion Ratio Lower Upper

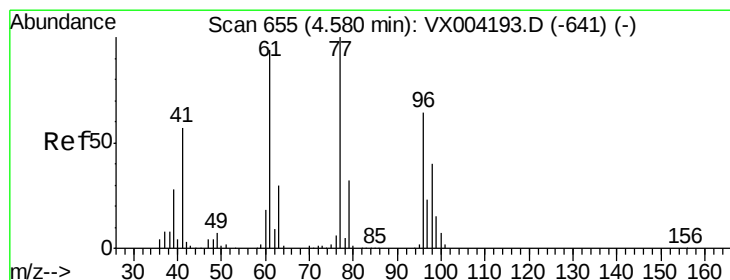
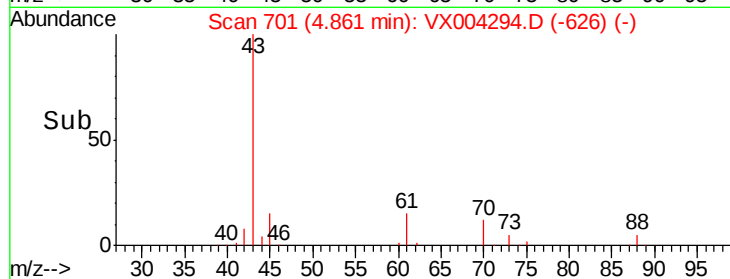
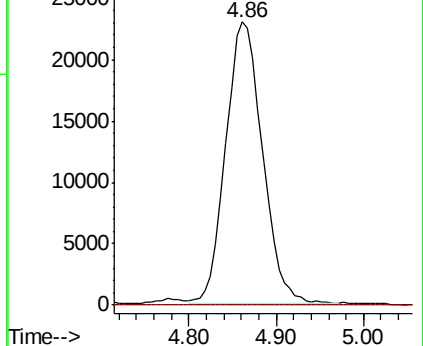
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.57 ug/l

RT: 4.79 min Scan# 689

Delta R.T. 0.21 min

Lab File: VX004294.D

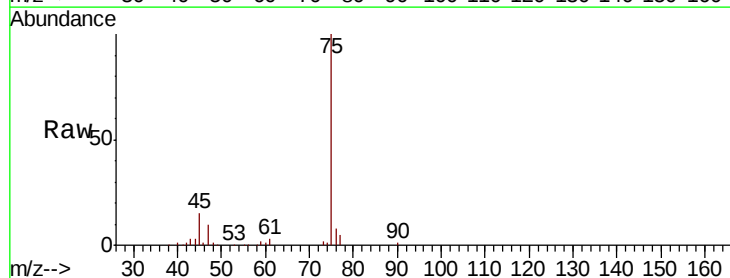
Acq: 29 Aug 2018 15:50

Tgt Ion: 77 Resp: 2521

Ion Ratio Lower Upper

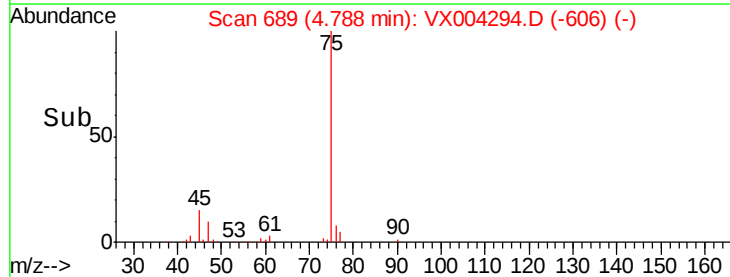
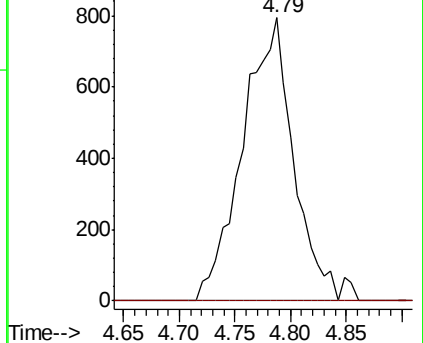
77 100

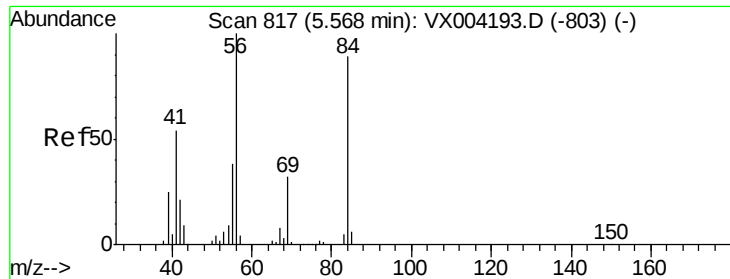
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

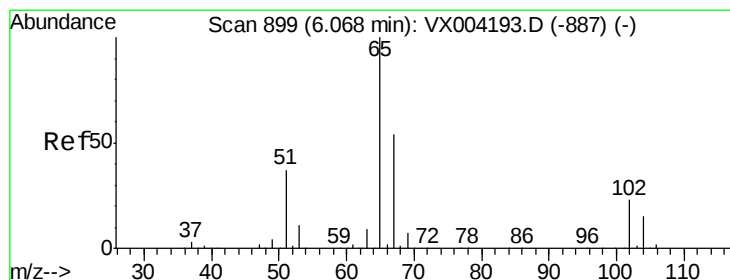
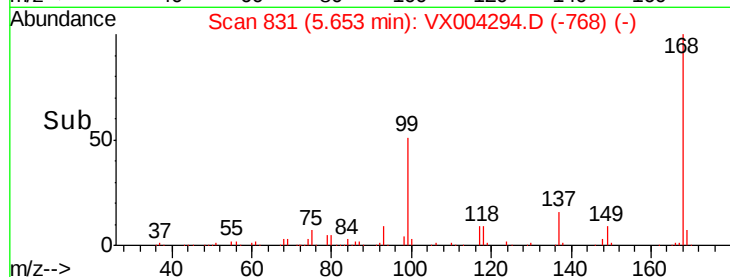
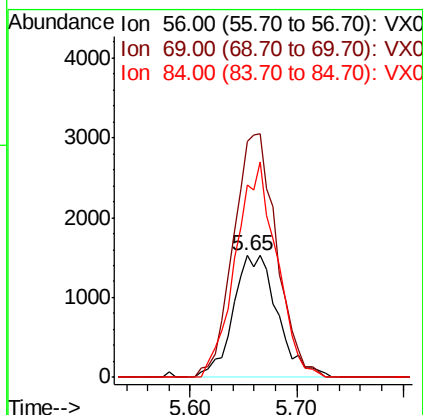
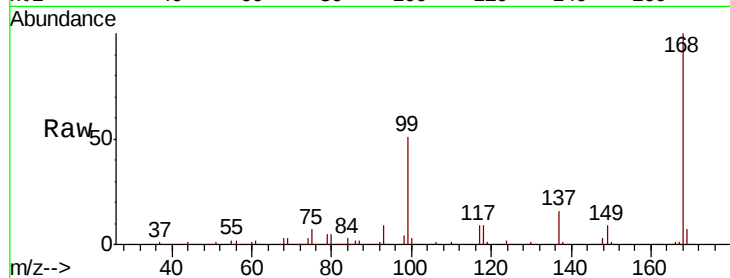




#31
Cyclohexane
Concen: 0.92 ug/l
RT: 5.65 min Scan# 831
Delta R.T. 0.09 min
Lab File: VX004294.D
Acq: 29 Aug 2018 15:50

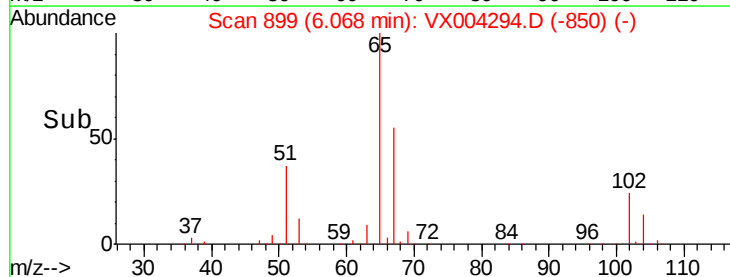
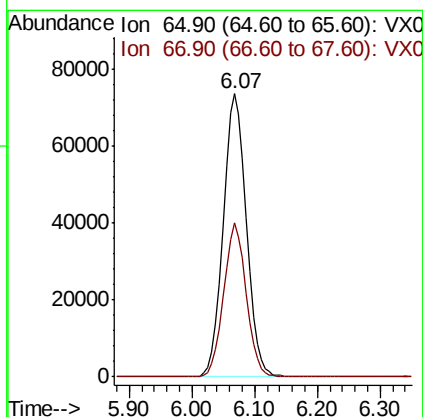
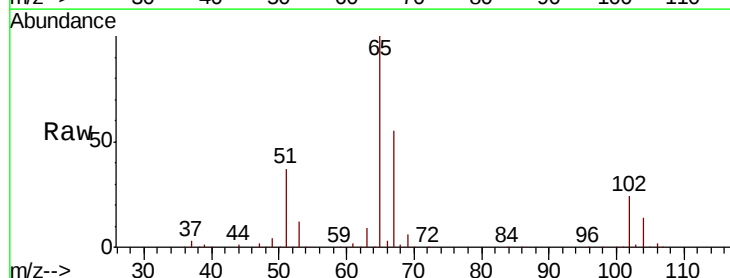
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW04S-M12W4-082318

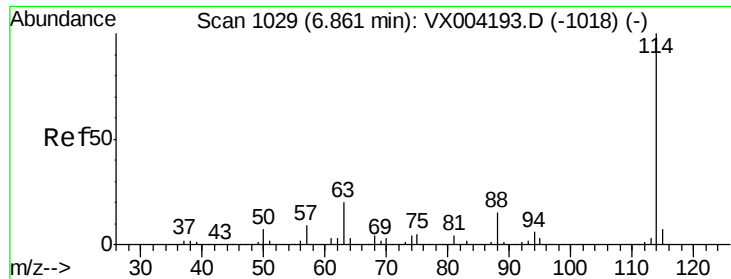
Tot Ion: 56 Resp: 4469
Ion Ratio Lower Upper
56 100
69 193.8 25.4 38.2#
84 158.3 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 53.96 ug/l
RT: 6.07 min Scan# 899
Delta R.T. 0.00 min
Lab File: VX004294.D
Acq: 29 Aug 2018 15:50

Tgt Ion: 65 Resp: 187905
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.8

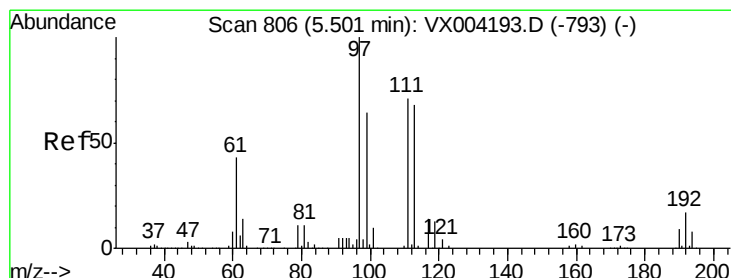
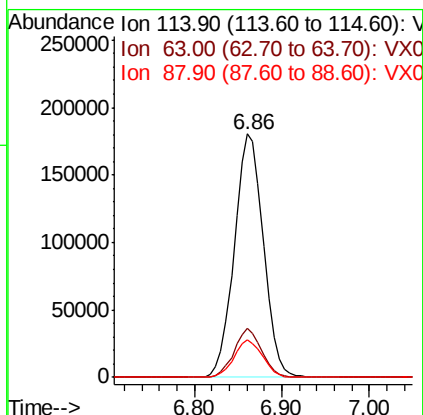
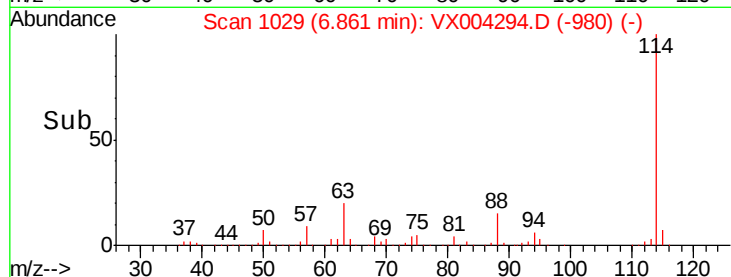
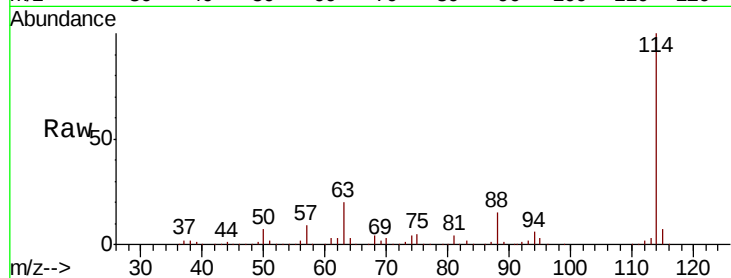




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: VX004294.D
 Acq: 29 Aug 2018 15:50

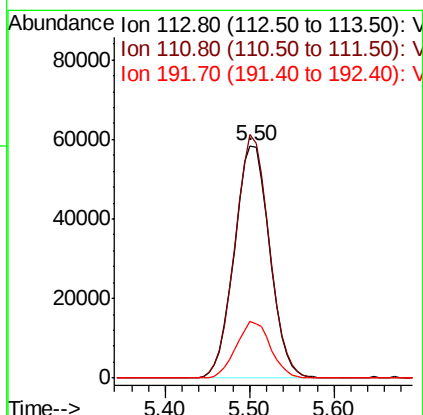
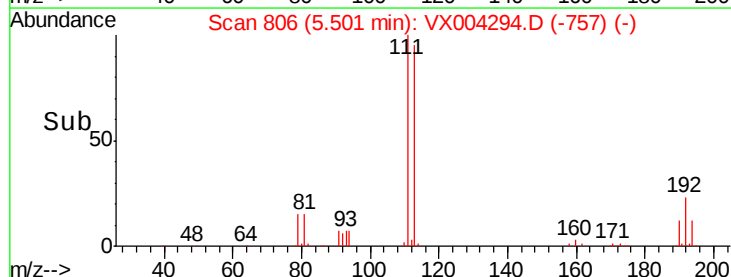
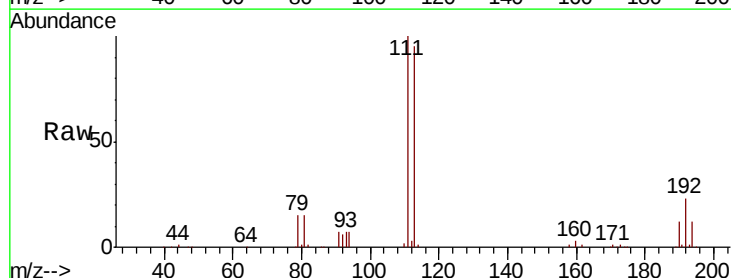
Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW04S-M12W4-082318

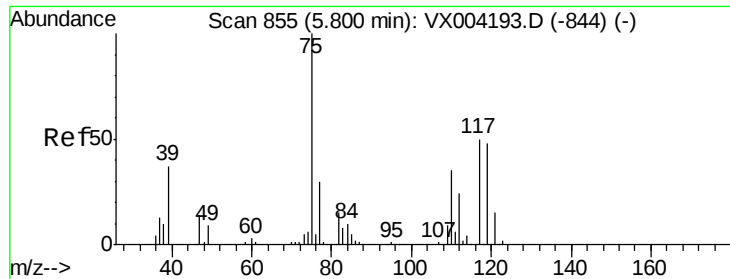
Tot Ion:114 Resp: 416408
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.0
 88 15.2 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 53.64 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004294.D
 Acq: 29 Aug 2018 15:50

Tgt Ion:113 Resp: 166172
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.4 123.6
 192 23.8 19.4 29.2

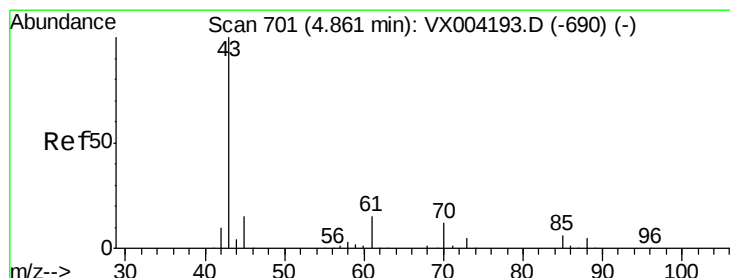
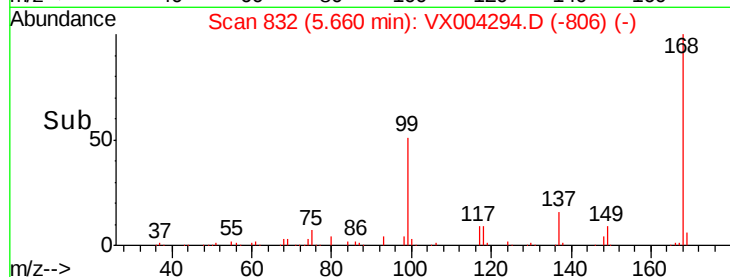
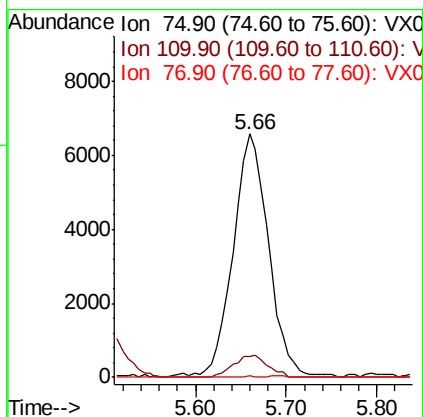
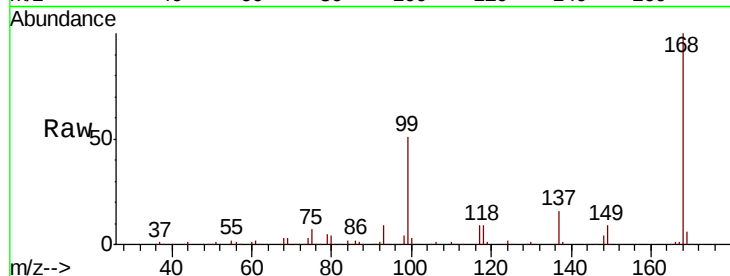




#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004294.D
 Acq: 29 Aug 2018 15:50

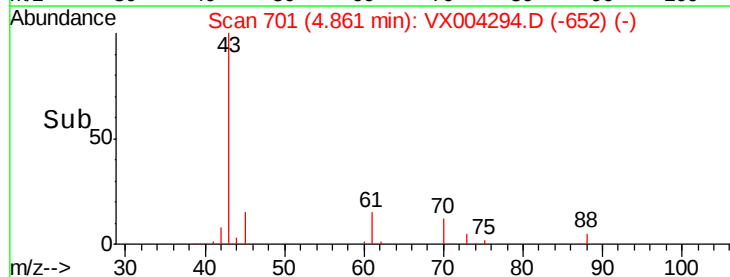
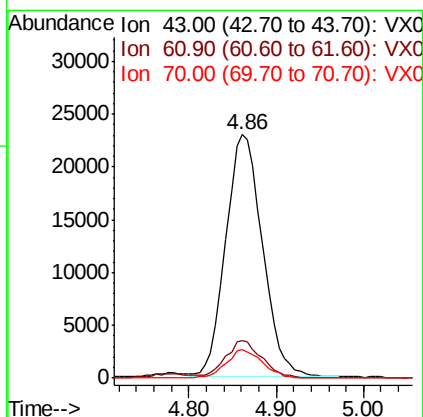
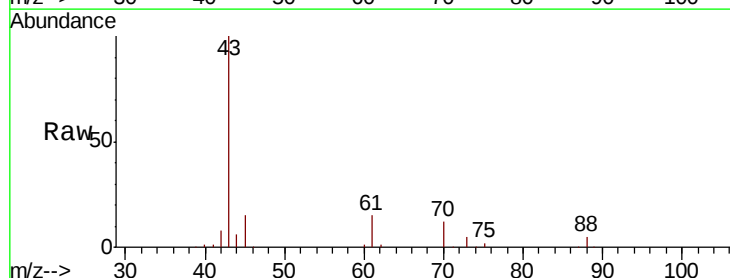
Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW04S-M12W4-082318

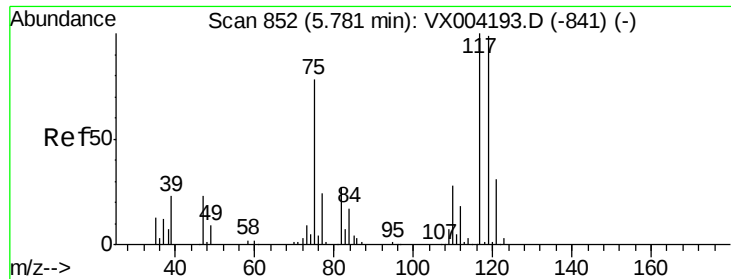
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.0	54.0#
77	0.1	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 14.58 ug/l
 RT: 4.86 min Scan# 701
 Delta R.T. 0.00 min
 Lab File: VX004294.D
 Acq: 29 Aug 2018 15:50

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.5	17.3
70	11.6	9.0	13.6

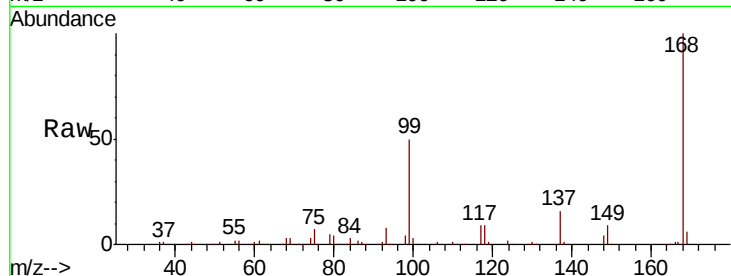




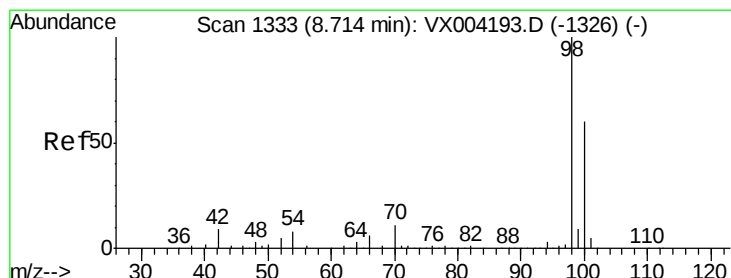
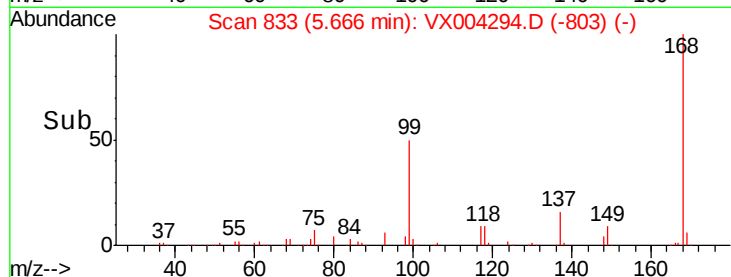
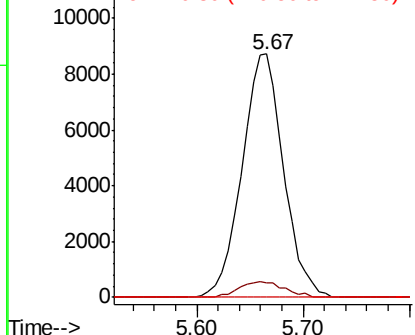
#38
Carbon Tetrachloride
Concen: 5.39 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX004294.D
Acq: 29 Aug 2018 15:50

Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW04S-M12W4-082318

Tot Ion:117 Resp: 23758
Ion Ratio Lower Upper
117 100
119 5.8 78.8 118.2#
121 0.0 24.9 37.3#

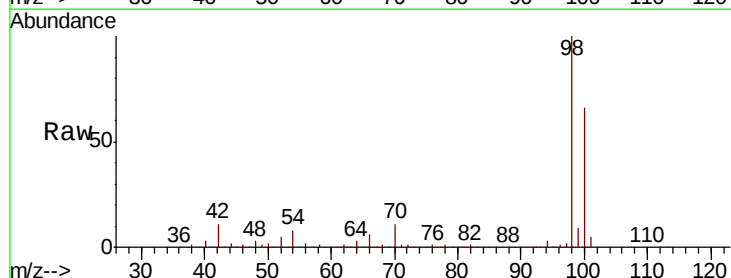


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

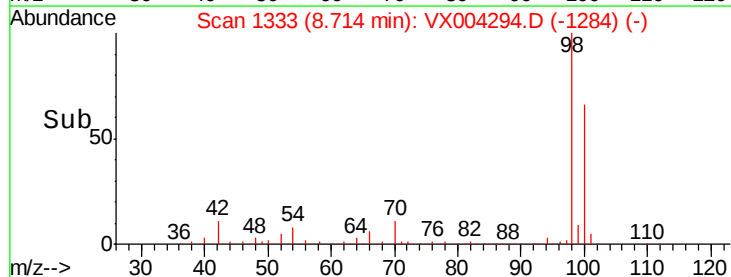
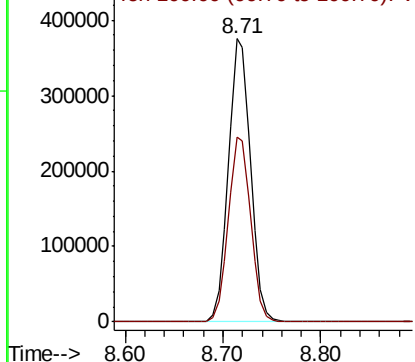


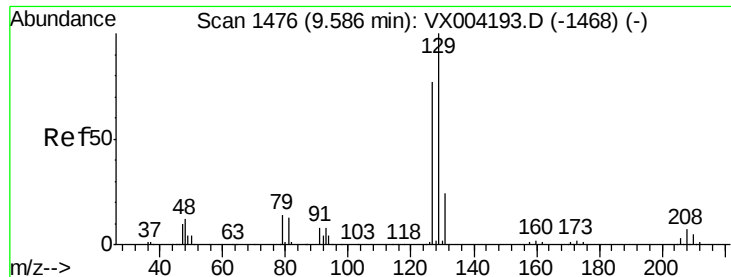
#50
Toluene-d8
Concen: 50.41 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. 0.00 min
Lab File: VX004294.D
Acq: 29 Aug 2018 15:50

Tgt Ion: 98 Resp: 589496
Ion Ratio Lower Upper
98 100
100 66.0 52.9 79.3



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





#60

Dibromochloromethane

Concen: 4.05 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

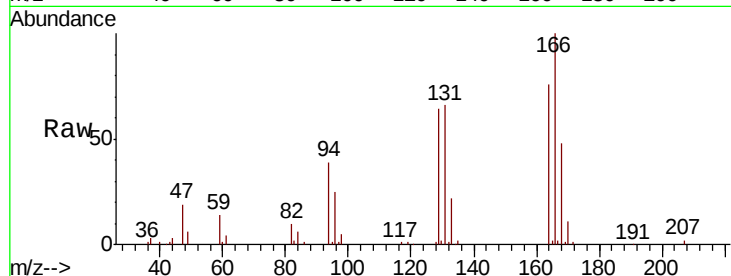
CPA-CPMW04S-M12W4-082318

Tot Ion:129 Resp: 13954

Ion Ratio Lower Upper

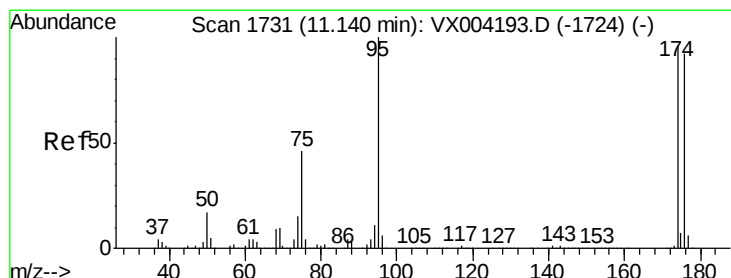
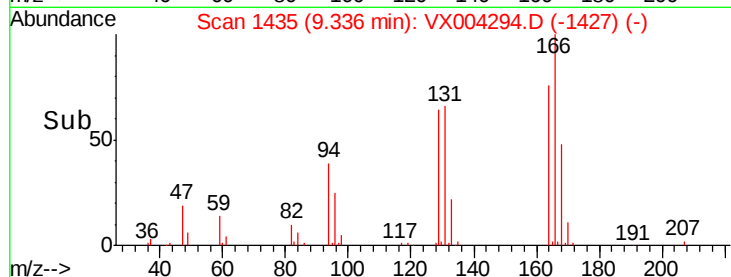
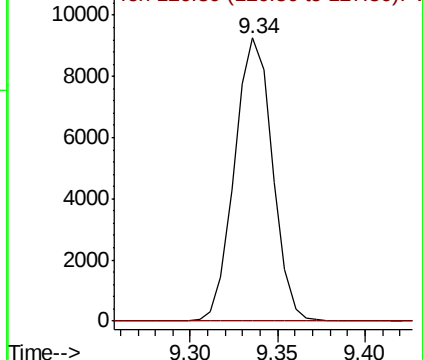
129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

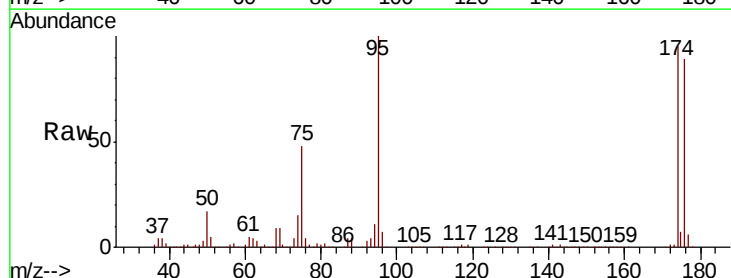
Tgt Ion: 95 Resp: 203383

Ion Ratio Lower Upper

95 100

174 93.7 0.0 185.2

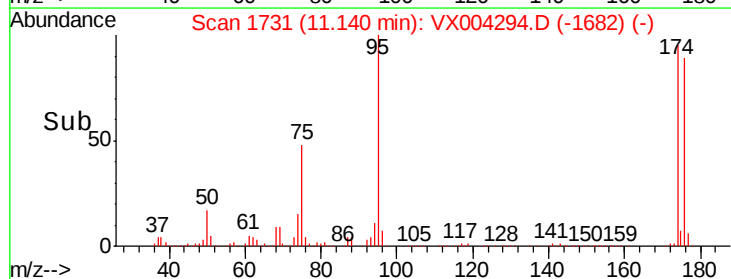
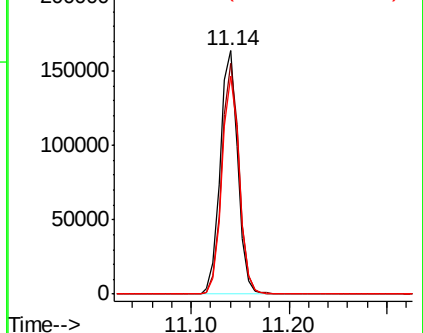
176 89.3 0.0 178.6

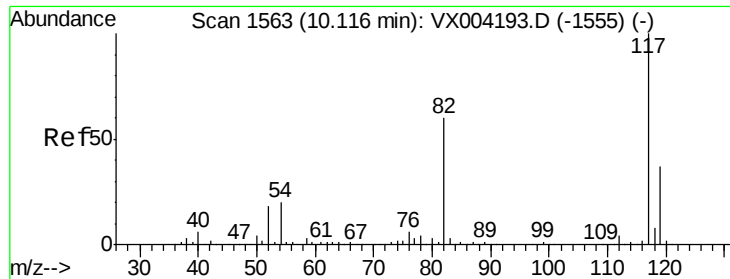


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW04S-M12W4-082318

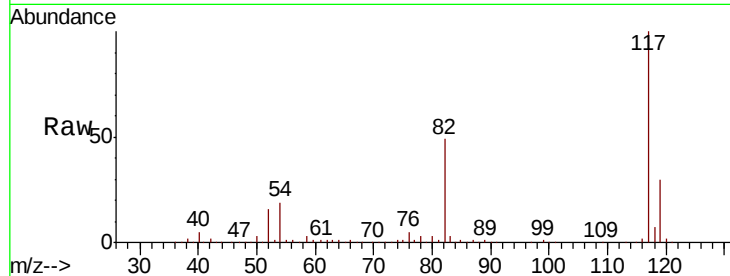
Tot Ion:117 Resp: 387214

Ion Ratio Lower Upper

117 100

82 48.8 47.8 71.6

119 29.7 29.3 43.9

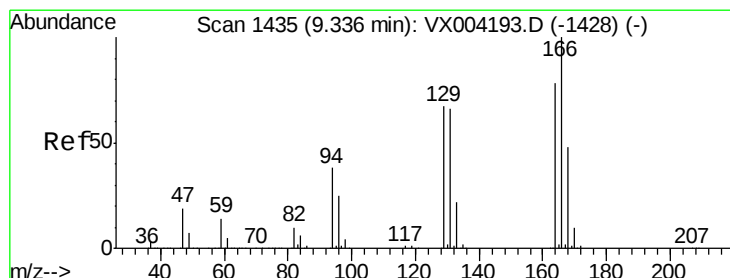
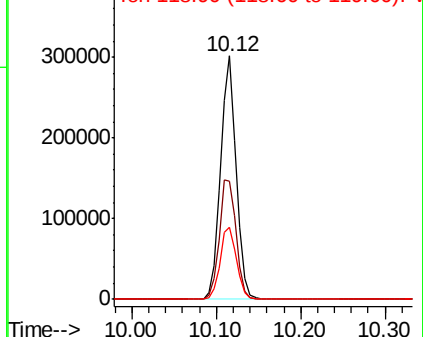
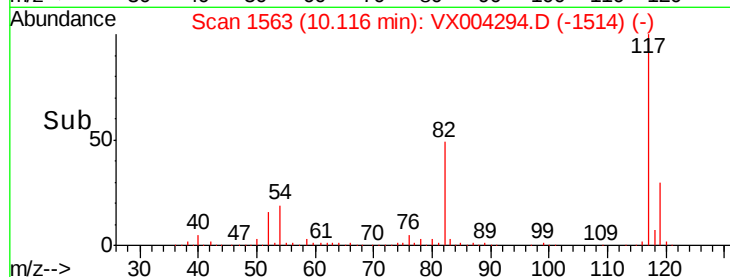


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 4.18 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. 0.00 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Tgt Ion:164 Resp: 15990

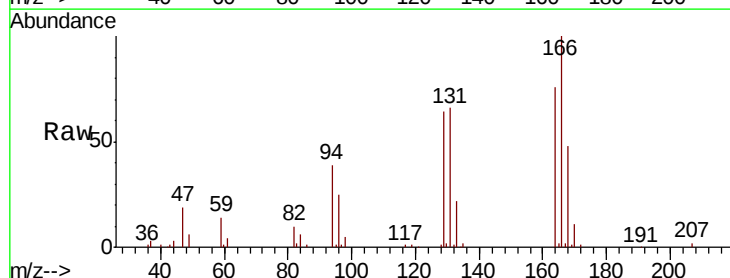
Ion Ratio Lower Upper

164 100

166 131.0 102.8 154.2

129 84.3 69.4 104.0

131 85.9 67.9 101.9



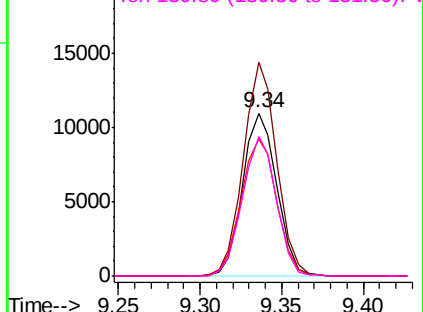
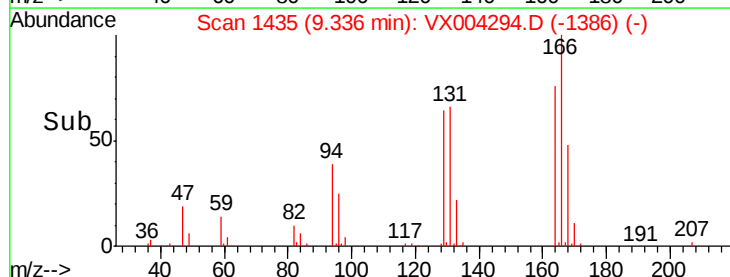
Abundance

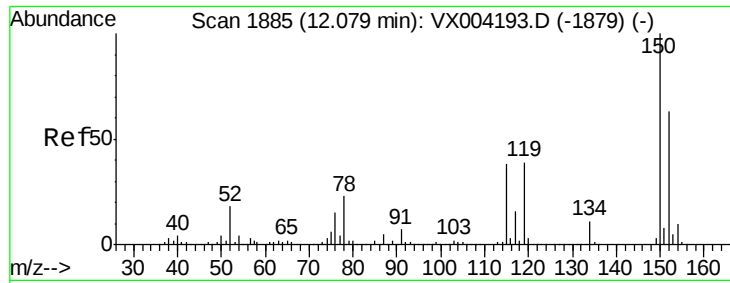
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW04S-M12W4-082318

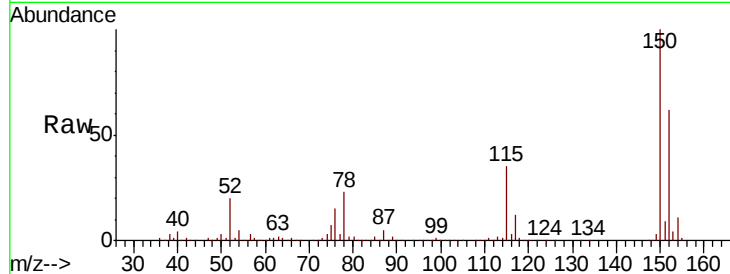
Tot Ion:152 Resp: 194121

Ion Ratio Lower Upper

152 100

115 56.3 39.0 117.0

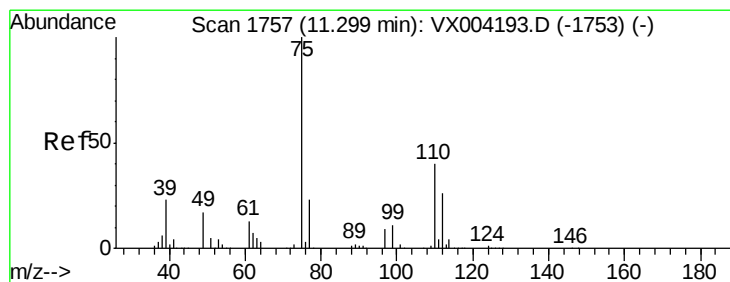
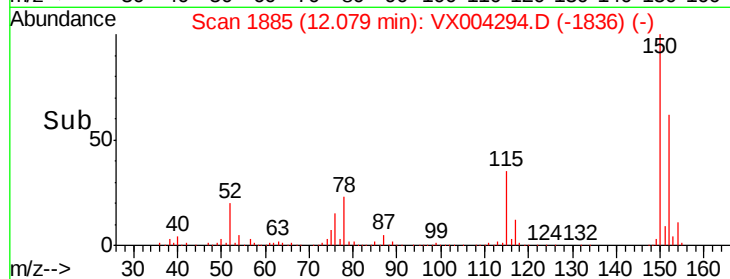
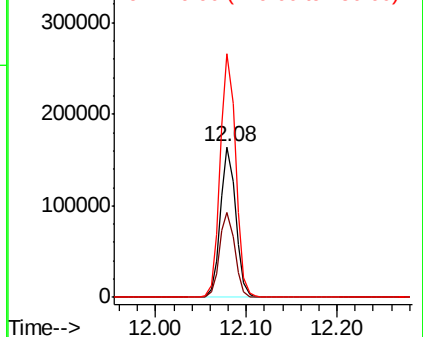
150 164.5 0.0 351.0



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: 24.79 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004294.D

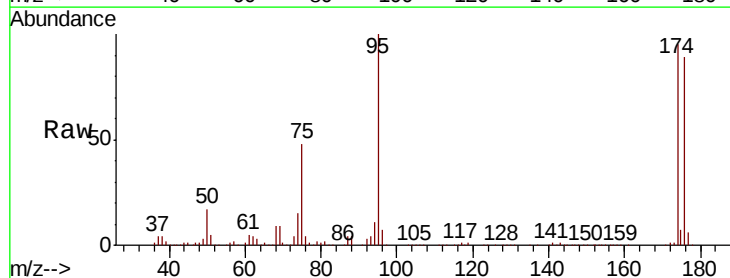
Acq: 29 Aug 2018 15:50

Tgt Ion: 75 Resp: 97876

Ion Ratio Lower Upper

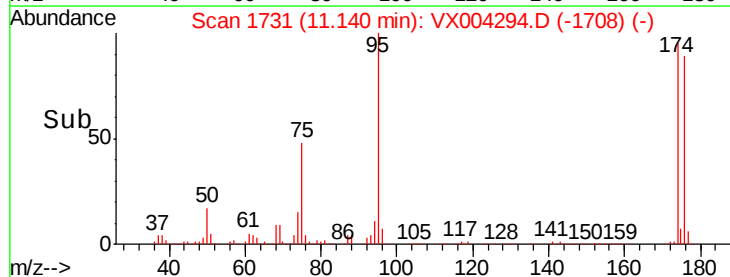
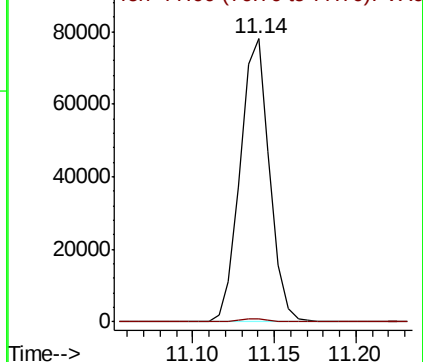
75 100

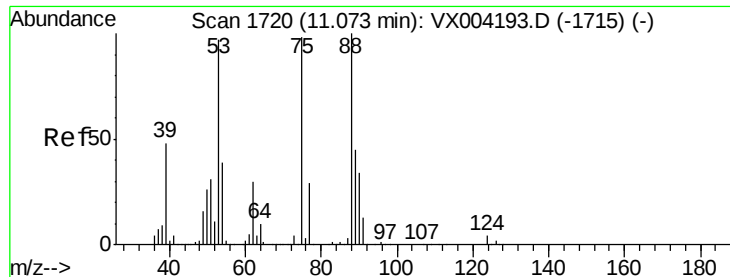
77 1.3 20.2 60.6#



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: 80.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004294.D

Acq: 29 Aug 2018 15:50

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW04S-M12W4-082318

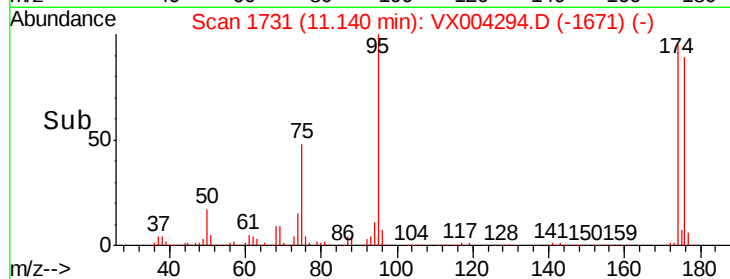
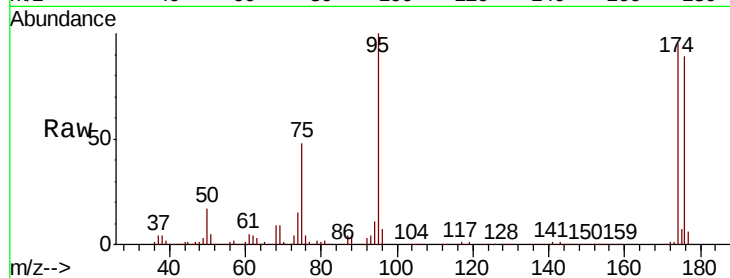
Tot Ion: 75 Resp: 97876

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

