

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082918\
 Data File : VX004290.D
 Acq On : 29 Aug 2018 14:03
 Operator : JC/MD
 Sample : J4681-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-AMW-4-M12W4-082318

Quant Time: Aug 30 02:08:18 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	5.67	168	271081	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	422653	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	395706	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	203028	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	187147	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
35) Dibromofluoromethane	5.50	113	164156	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
50) Toluene-d8	8.71	98	597364	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
62) 4-Bromofluorobenzene	11.14	95	204445	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	

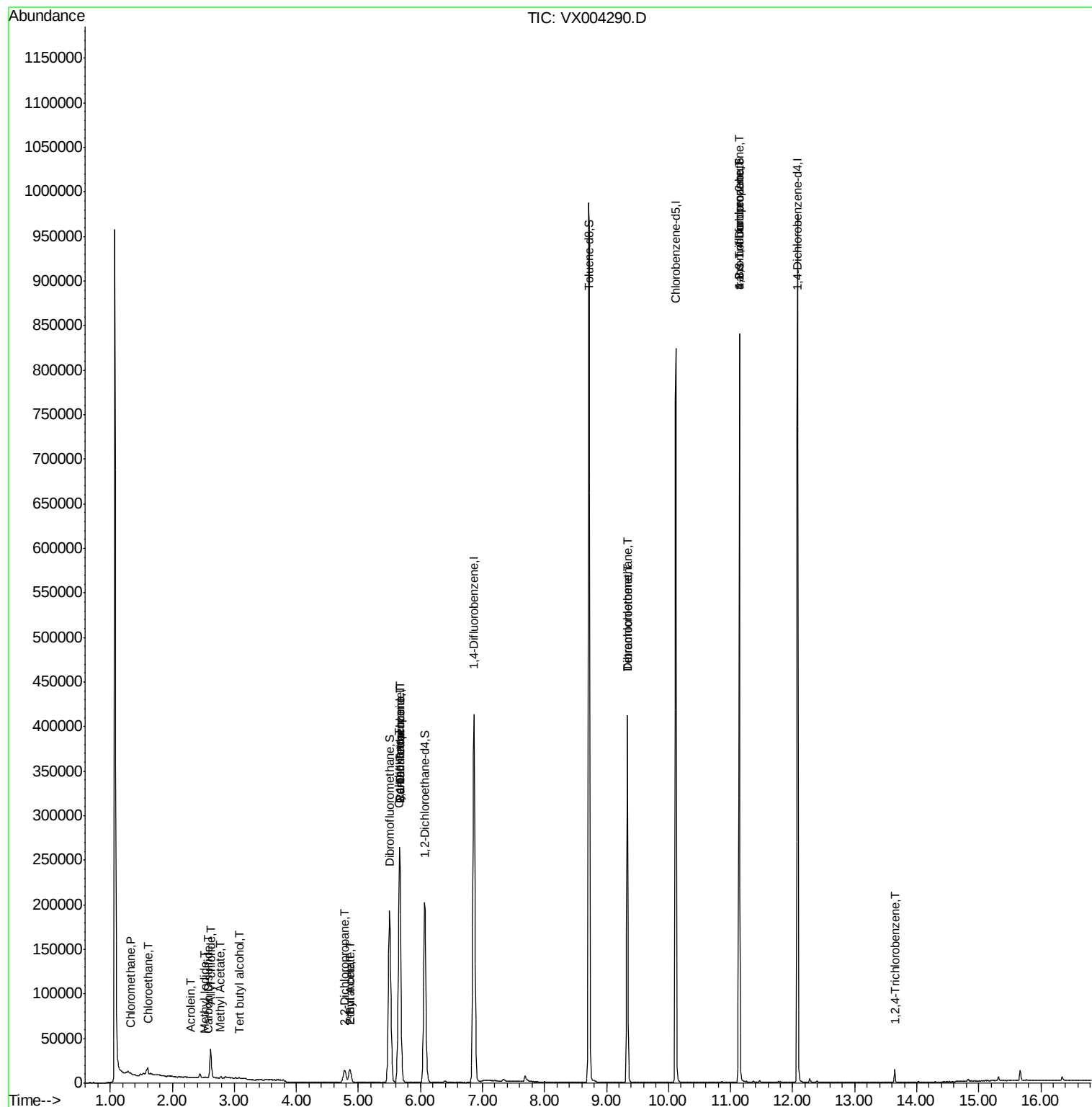
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1092	0.60	ug/l	88
5) Bromomethane	1.65	94	1166	Below Cal		92
6) Chloroethane	1.61	64	5532	2.90	ug/l #	66
10) Methyl Iodide	2.51	142	615	4.43	ug/l #	86
11) Tert butyl alcohol	3.07	59	1444	1.92	ug/l #	84
13) Acrolein	2.31	56	123	0.68	ug/l #	70
14) Allyl chloride	2.62	41	3198	0.61	ug/l #	61
16) Acetone	2.45	43	4339	Below Cal		98
17) Carbon Disulfide	2.57	76	524	0.86	ug/l #	76
18) Methyl Acetate	2.78	43	1760	0.34	ug/l #	85
25) 2-Butanone	4.86	43	24972	7.79	ug/l #	47
26) 2,2-Dichloropropane	4.77	77	1335	0.30	ug/l #	52
31) Cyclohexane	5.65	56	4703	0.95	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17552	3.69	ug/l #	50
37) Ethyl Acetate	4.86	43	24972	5.34	ug/l	97
38) Carbon Tetrachloride	5.66	117	23667	5.29	ug/l #	16
60) Dibromochloromethane	9.34	129	71588	20.48	ug/l #	11
64) Tetrachloroethene	9.34	164	81969	20.97	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	97956	23.72	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	97956	76.97	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	3709	0.79	ug/l	98
94) Hexachlorobutadiene	13.78	225	102	Below Cal	#	20

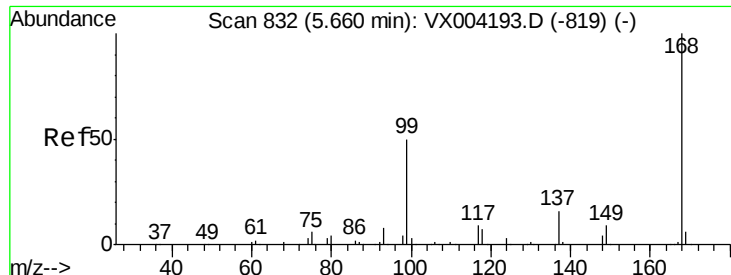
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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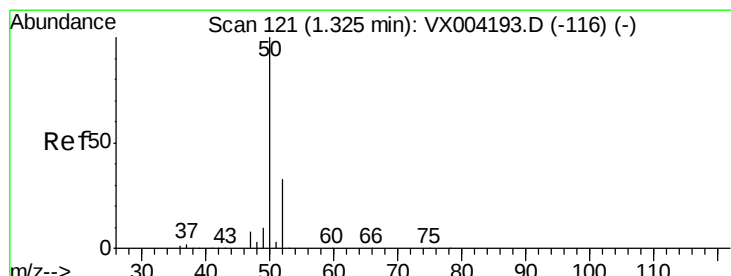
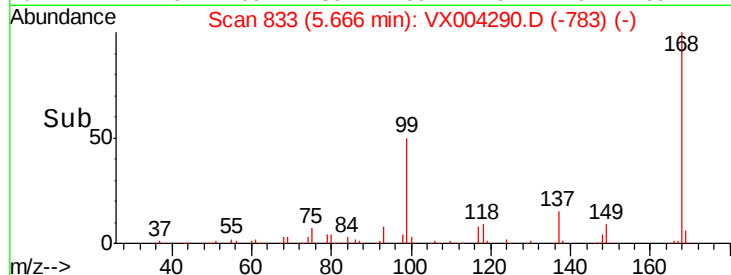
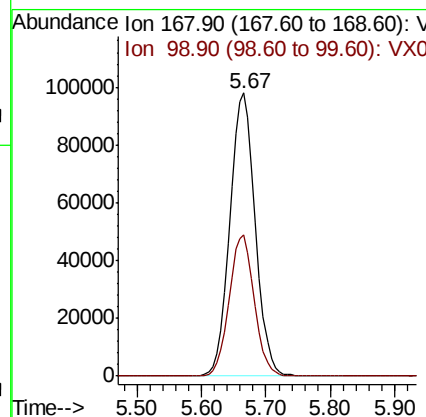
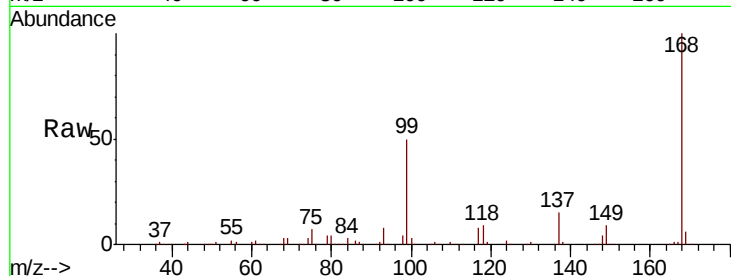




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.01 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

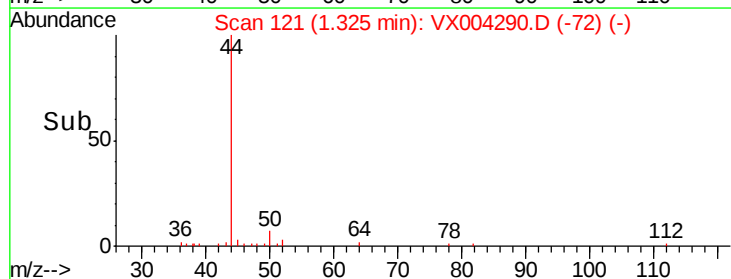
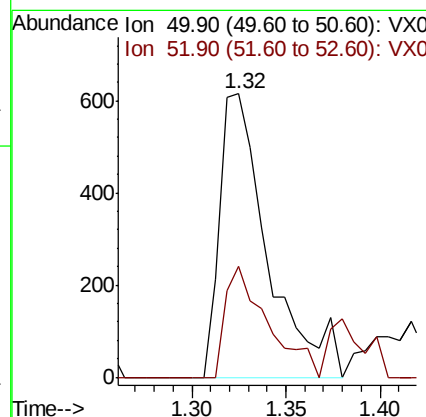
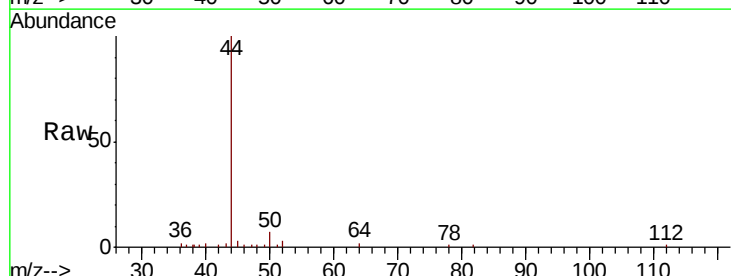
Instrument :
MSVOA_X
ClientSampleId :
CPA-AMW-4-M12W4-082318

Tot Ion:168 Resp: 271081
Ion Ratio Lower Upper
168 100
99 50.0 39.9 59.9



#3
Chloromethane
Concen: 0.60 ug/l
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

Tgt Ion: 50 Resp: 1092
Ion Ratio Lower Upper
50 100
52 39.2 26.2 39.2





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

Instrument :

MSVOA_X

ClientSampleId :

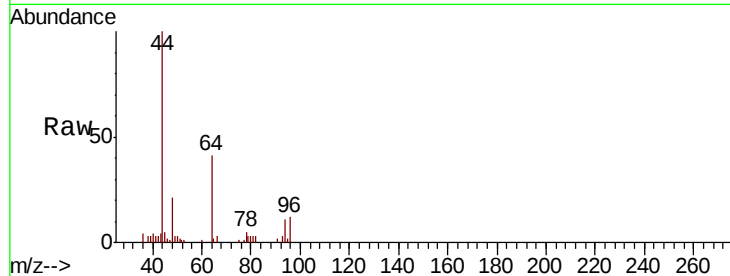
CPA-AMW-4-M12W4-082318

Tot Ion: 94 Resp: 1166

Ion Ratio Lower Upper

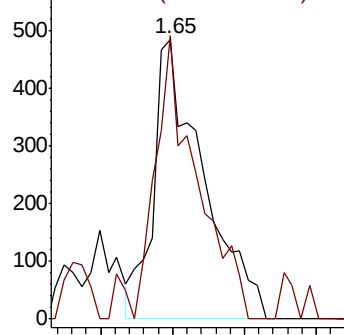
94 100

96 101.2 74.5 111.7

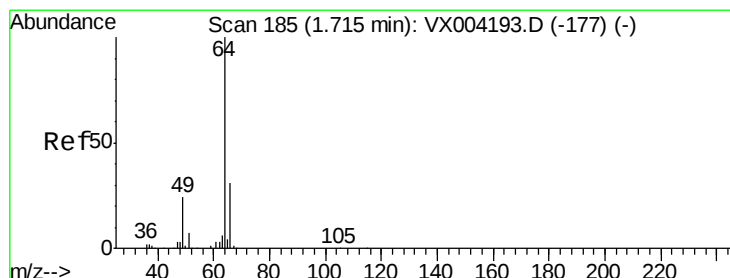
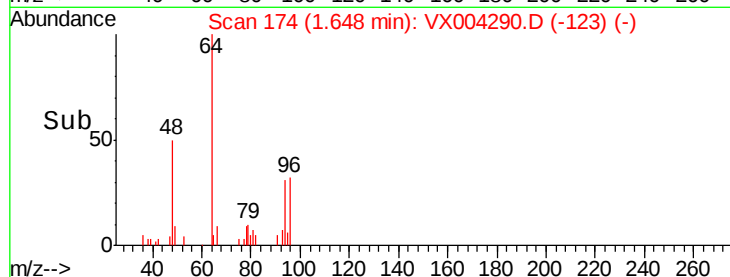


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 2.90 ug/l

RT: 1.61 min Scan# 168

Delta R.T. -0.10 min

Lab File: VX004290.D

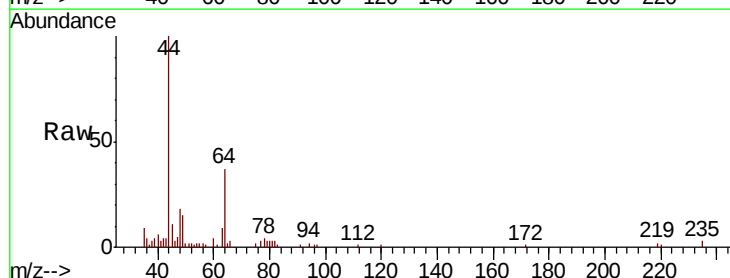
Acq: 29 Aug 2018 14:03

Tgt Ion: 64 Resp: 5532

Ion Ratio Lower Upper

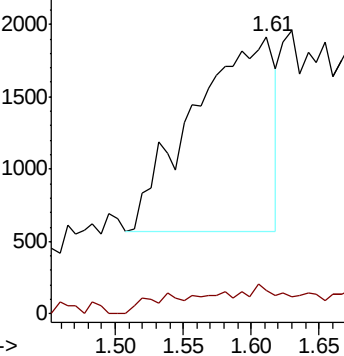
64 100

66 11.9 24.6 36.8#

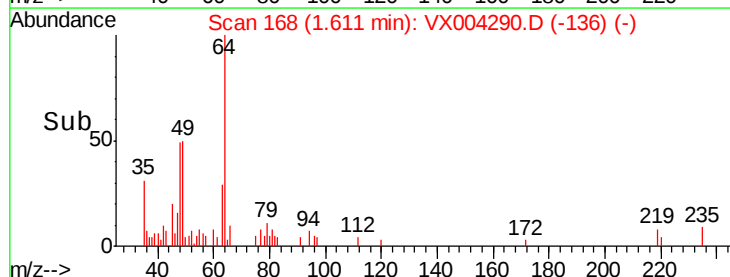


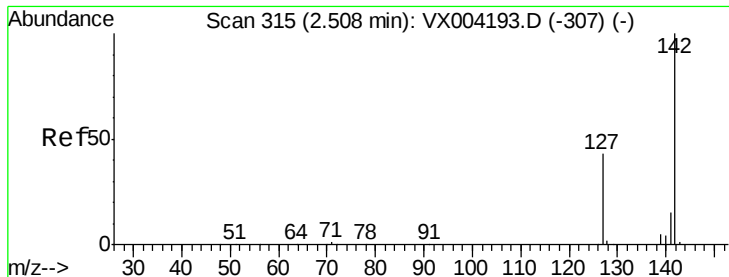
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

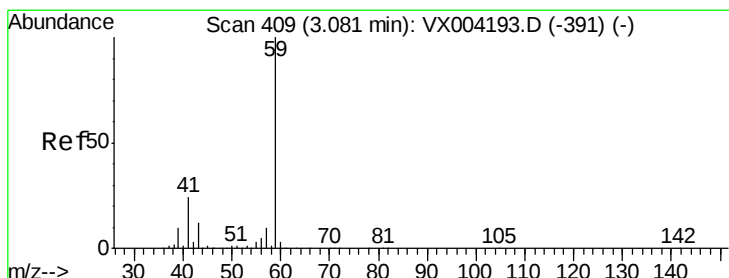
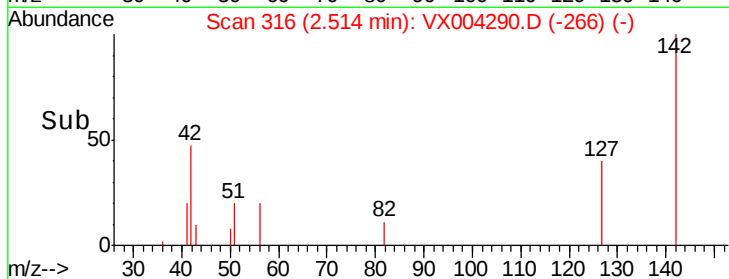
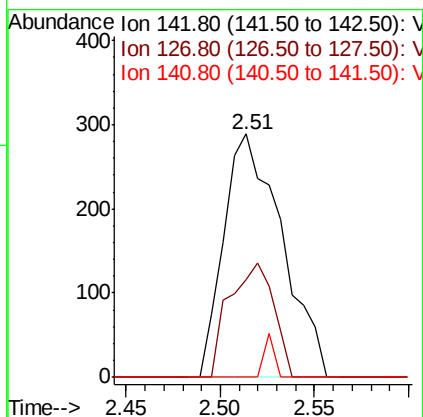
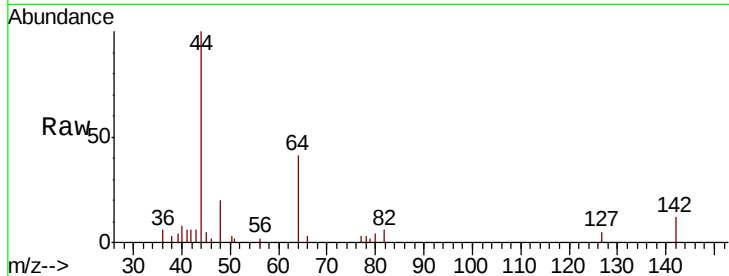




#10
Methyl Iodide
Concen: 4.43 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

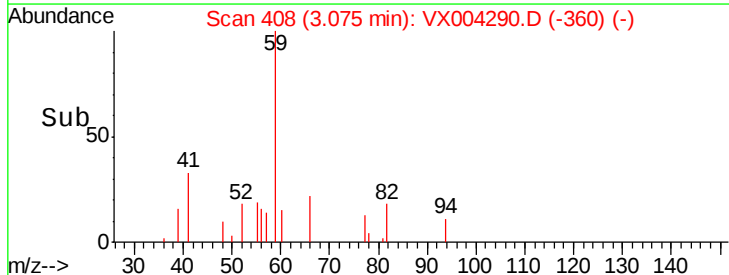
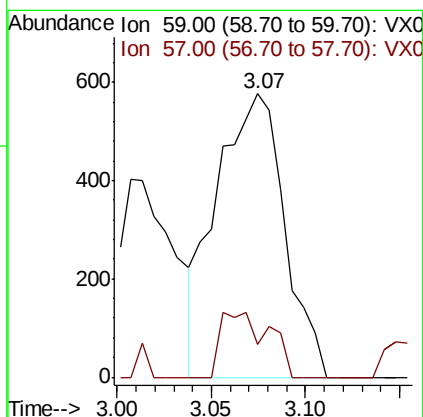
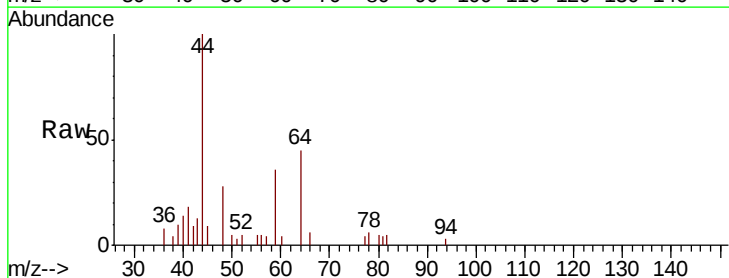
Instrument :
MSVOA_X
ClientSampleId :
CPA-AMW-4-M12W4-082318

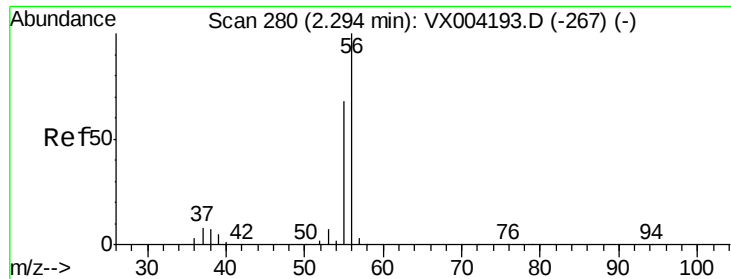
Tot Ion:142 Resp: 615
Ion Ratio Lower Upper
142 100
127 35.9 33.8 50.6
141 3.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.92 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

Tgt Ion: 59 Resp: 1444
Ion Ratio Lower Upper
59 100
57 16.3 8.2 12.4#





#13

Acrolein

Concen: 0.68 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

Instrument :

MSVOA_X

ClientSampleId :

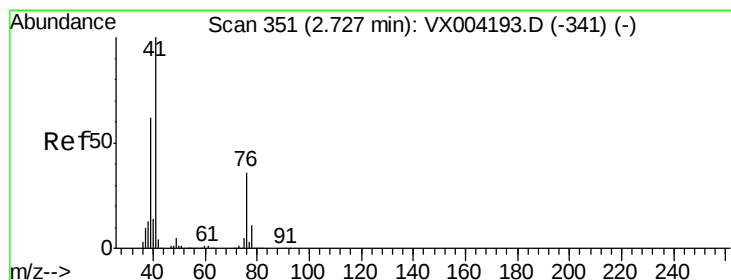
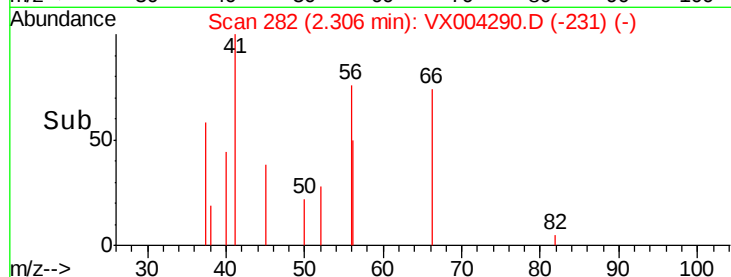
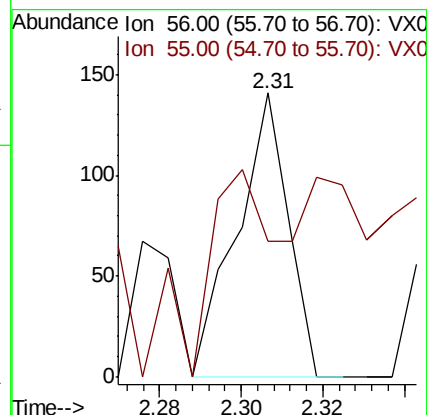
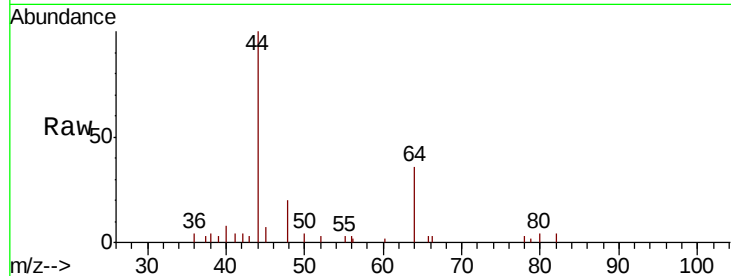
CPA-AMW-4-M12W4-082318

Tot Ion: 56 Resp: 123

Ion Ratio Lower Upper

56 100

55 92.7 54.7 82.1#



#14

Allyl chloride

Concen: 0.61 ug/l

RT: 2.62 min Scan# 333

Delta R.T. -0.11 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

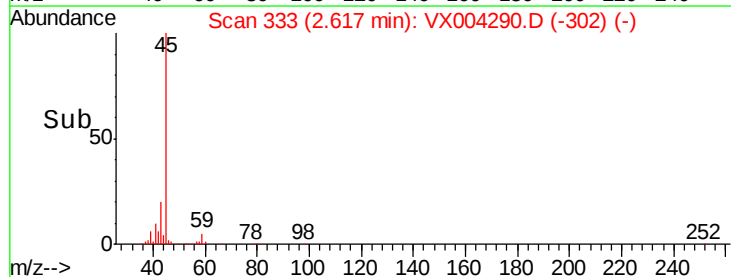
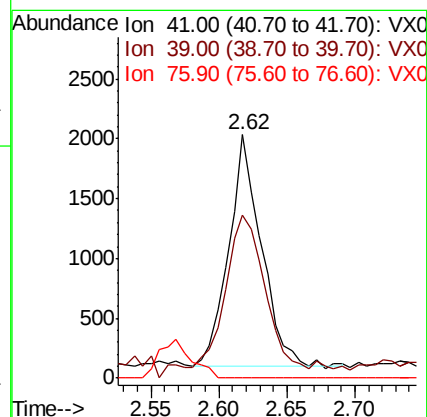
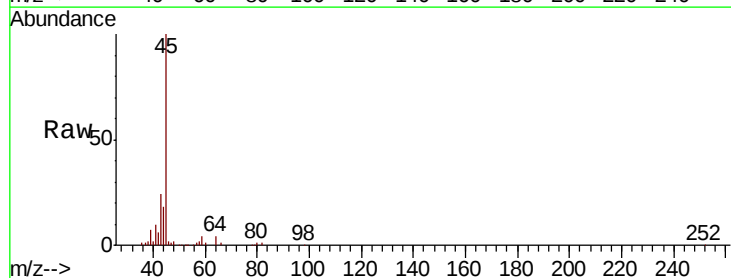
Tgt Ion: 41 Resp: 3198

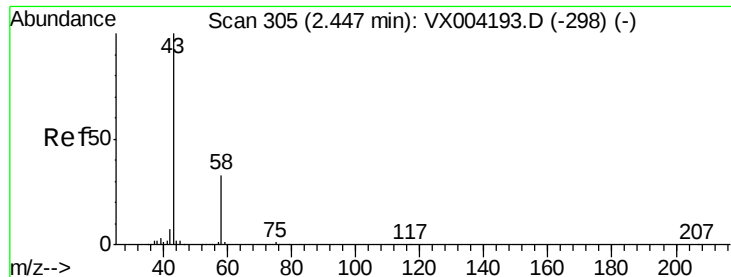
Ion Ratio Lower Upper

41 100

39 82.1 48.9 73.3#

76 0.0 26.7 40.1#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

Instrument :

MSVOA_X

ClientSampleId :

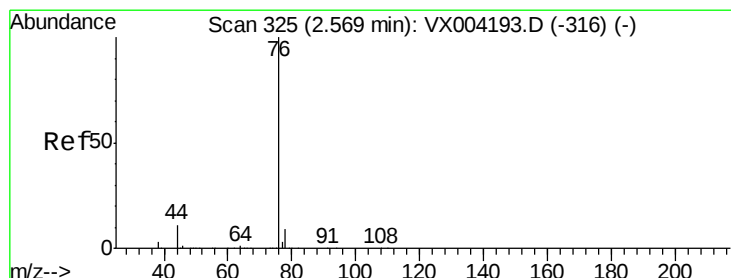
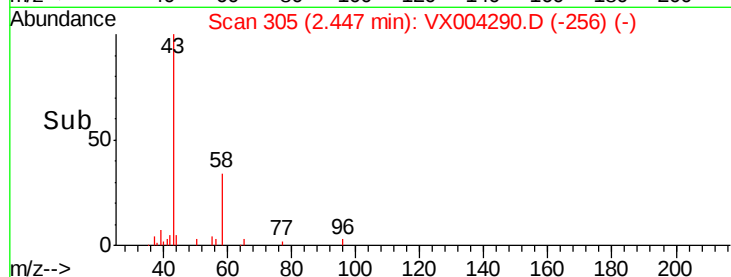
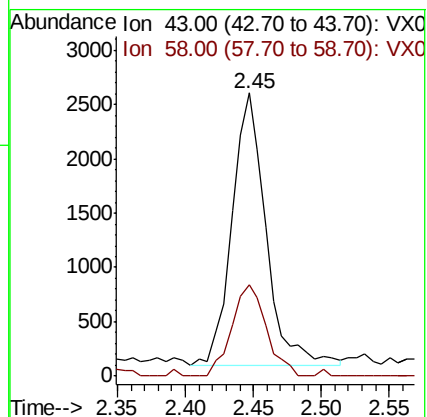
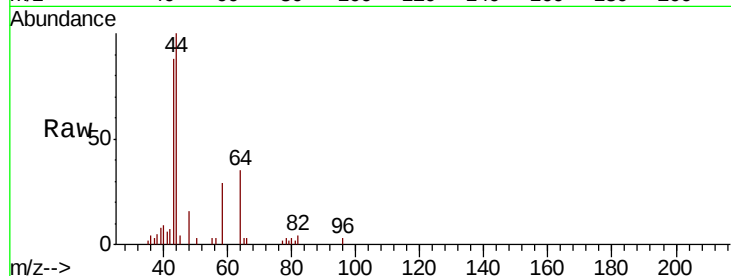
CPA-AMW-4-M12W4-082318

Tot Ion: 43 Resp: 4339

Ion Ratio Lower Upper

43 100

58 33.8 26.2 39.4



#17

Carbon Disulfide

Concen: 0.86 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004290.D

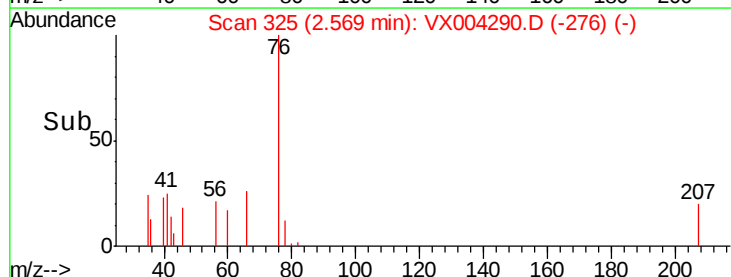
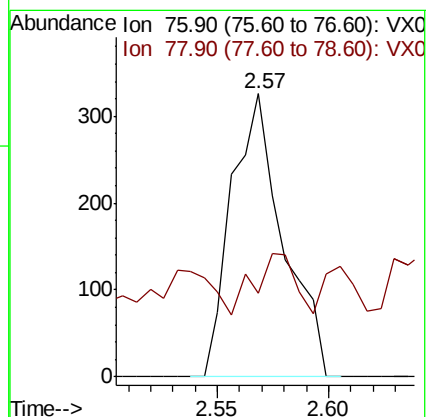
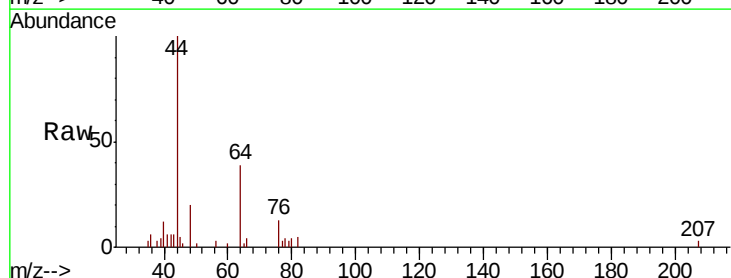
Acq: 29 Aug 2018 14:03

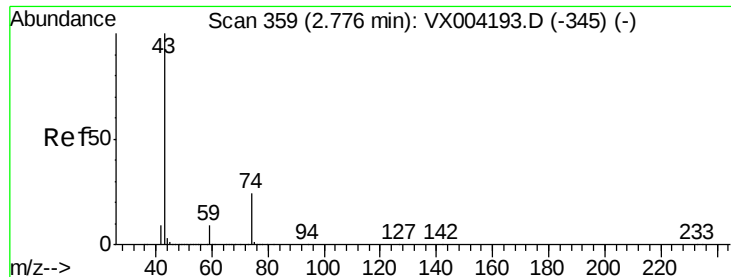
Tgt Ion: 76 Resp: 524

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

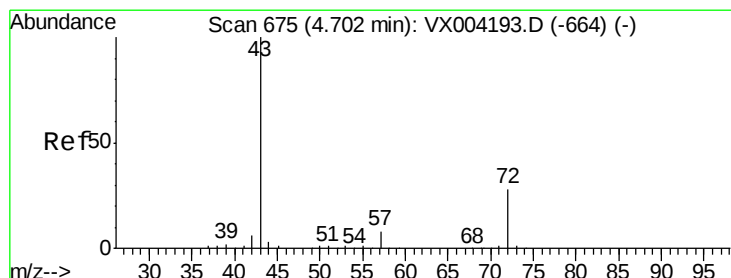
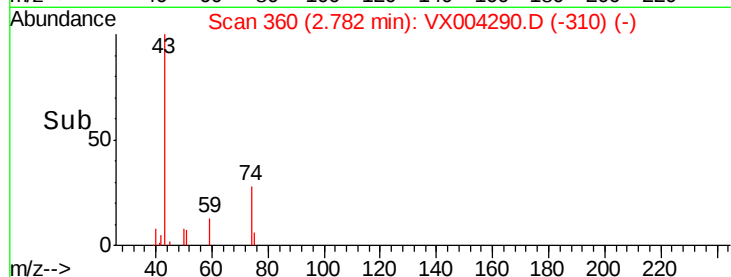
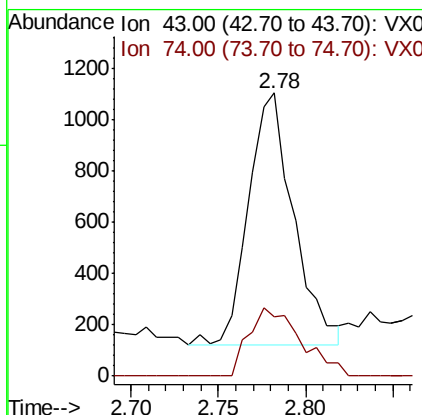
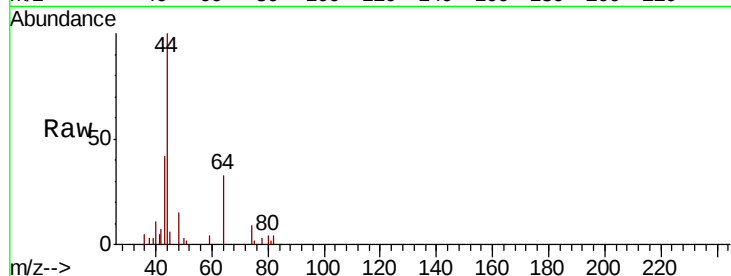




#18
Methvl Acetate
Concen: 0.34 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.01 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

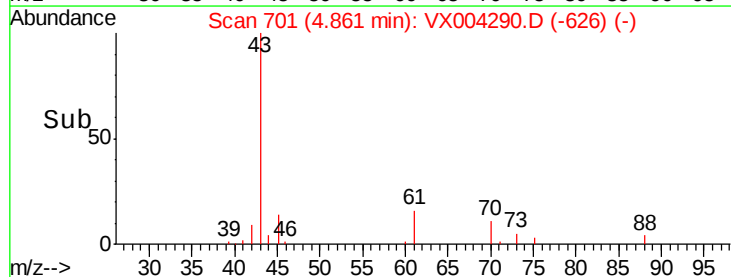
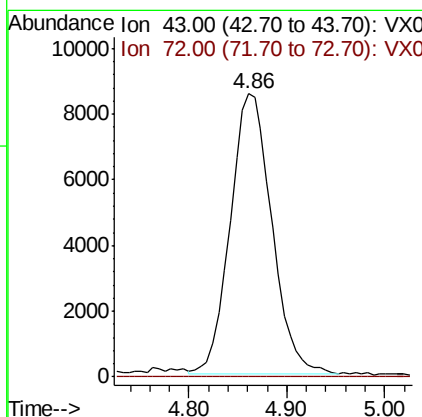
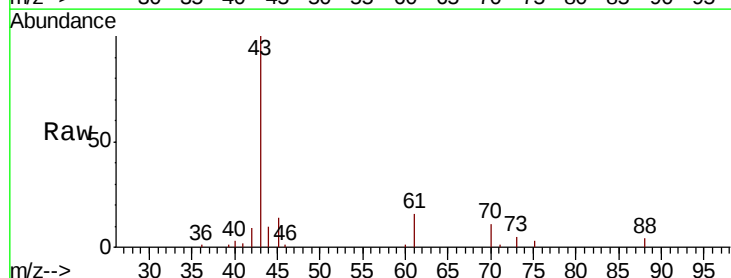
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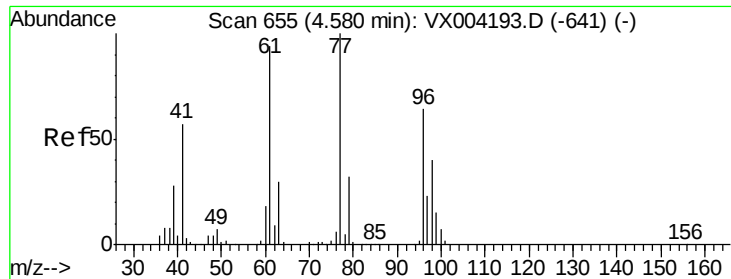
Tot Ion: 43 Resp: 1760
Ion Ratio Lower Upper
43 100
74 31.8 19.4 29.2#



#25
2-Butanone
Concen: 7.79 ug/l
RT: 4.86 min Scan# 701
Delta R.T. 0.16 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

Tgt Ion: 43 Resp: 24972
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#





#26

2,2-Dichloropropane

Concen: 0.30 ug/l

RT: 4.77 min Scan# 686

Delta R.T. 0.19 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

Instrument :

MSVOA_X

ClientSampleId :

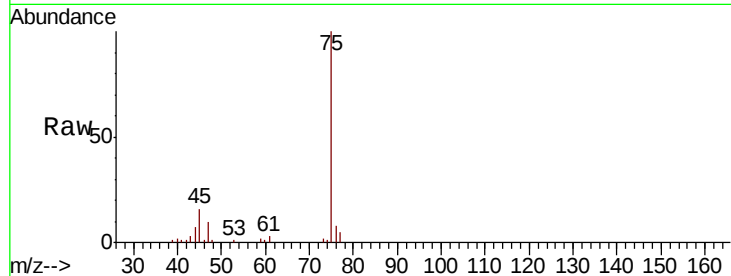
CPA-AMW-4-M12W4-082318

Tot Ion: 77 Resp: 1335

Ion Ratio Lower Upper

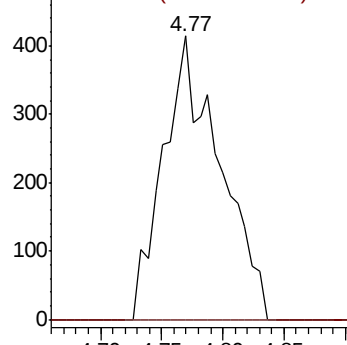
77 100

97 0.0 11.7 35.0#

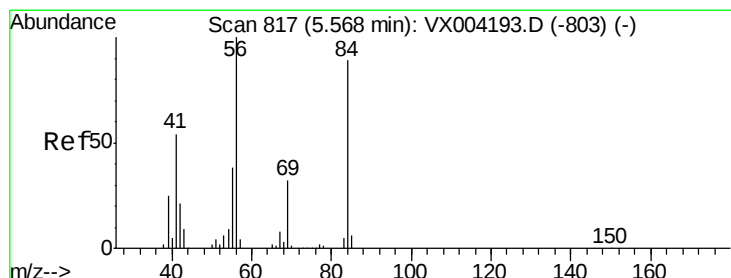
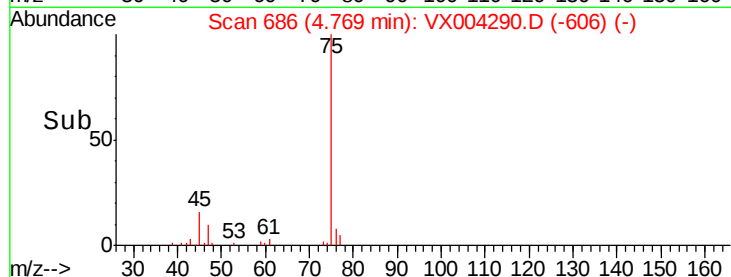


Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



Time-->



#31

Cyclohexane

Concen: 0.95 ug/l

RT: 5.65 min Scan# 831

Delta R.T. 0.09 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

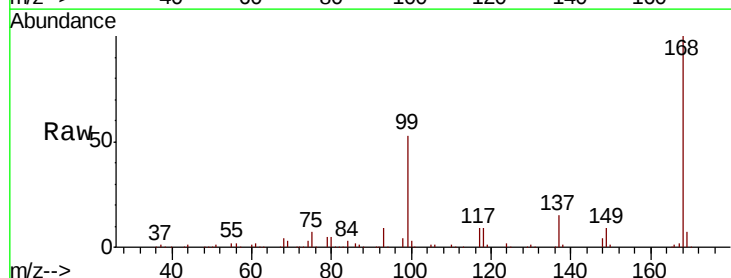
Tgt Ion: 56 Resp: 4703

Ion Ratio Lower Upper

56 100

69 169.1 25.4 38.2#

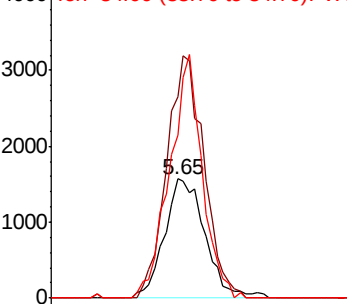
84 137.0 71.4 107.2#



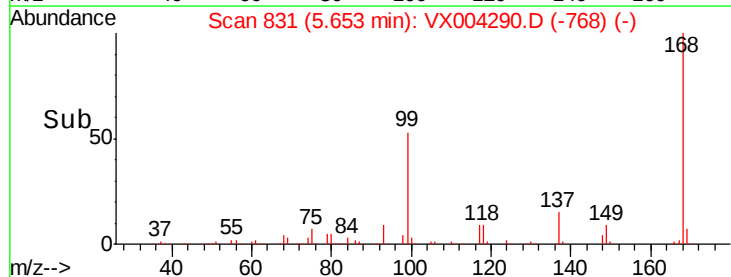
Abundance Ion 56.00 (55.70 to 56.70): VX0

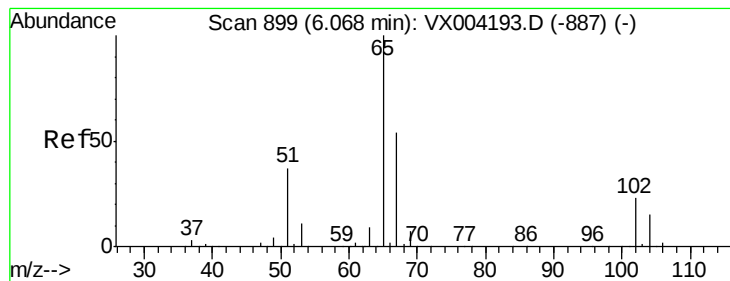
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.97 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

Instrument :

MSVOA_X

ClientSampleId :

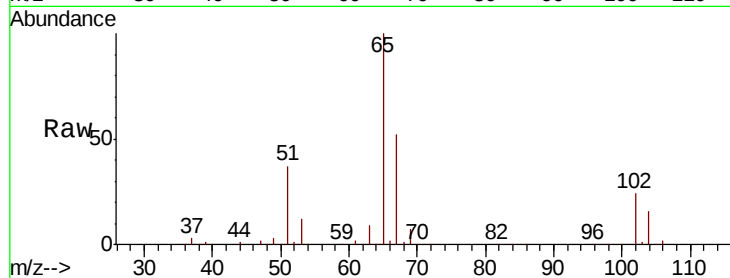
CPA-AMW-4-M12W4-082318

Tot Ion: 65 Resp: 187147

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

60000

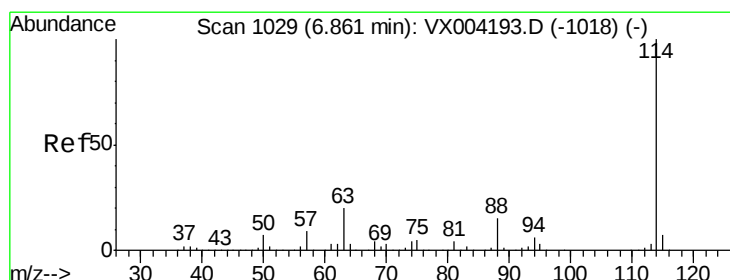
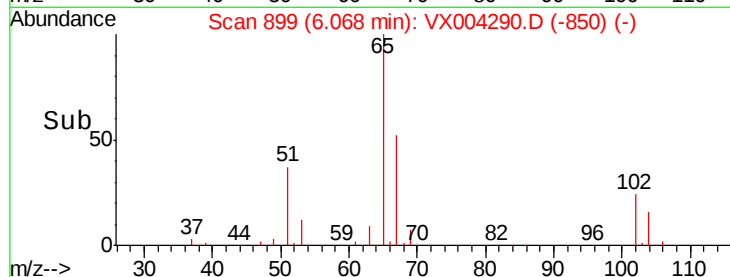
40000

20000

0

Time-->

5.90 6.00 6.10 6.20 6.30



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

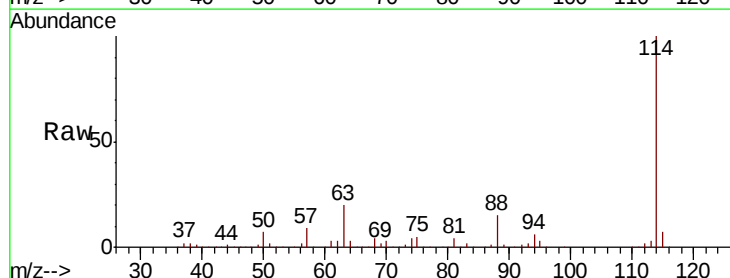
Tgt Ion: 114 Resp: 422653

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

88 15.5 0.0 30.4



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

250000

200000

150000

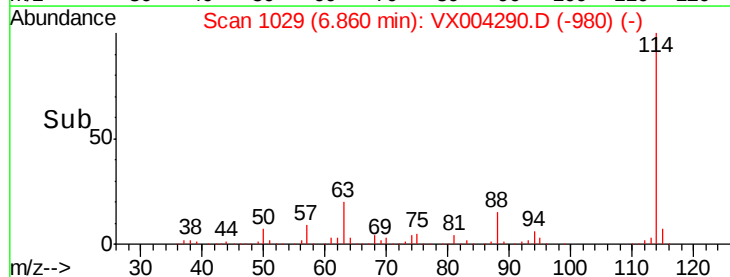
100000

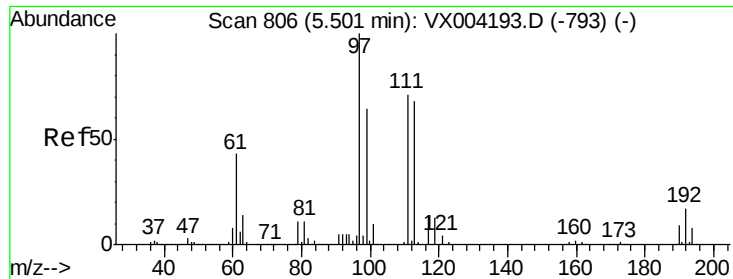
50000

0

Time-->

6.70 6.80 6.90 7.00

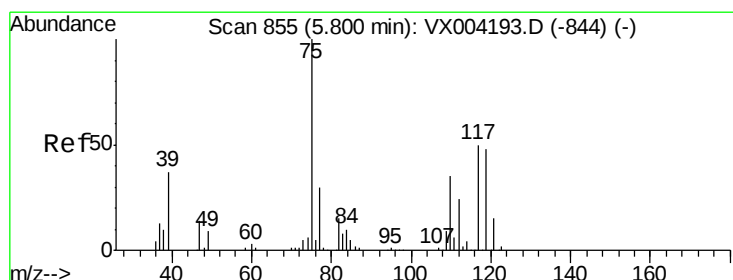
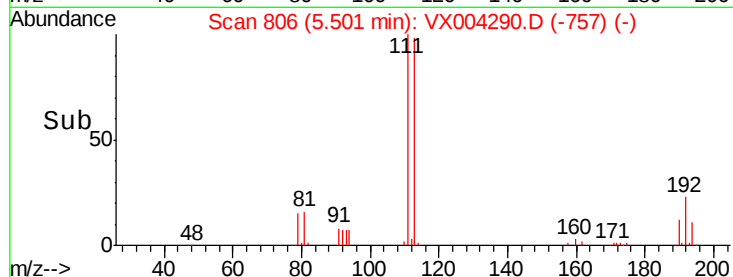
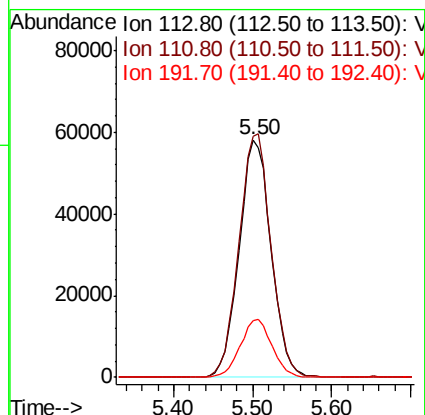
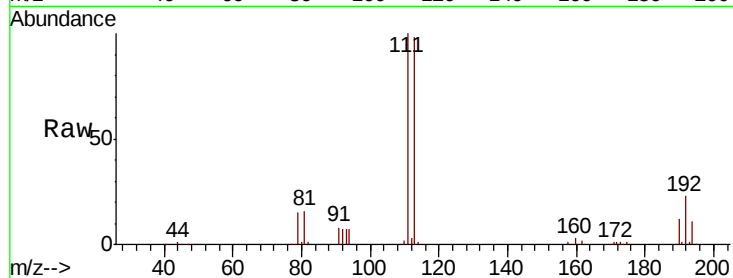




#35
 Dibromofluoromethane
 Concen: 52.21 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004290.D
 Acq: 29 Aug 2018 14:03

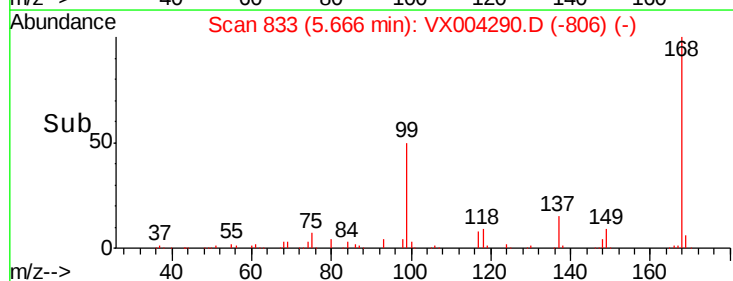
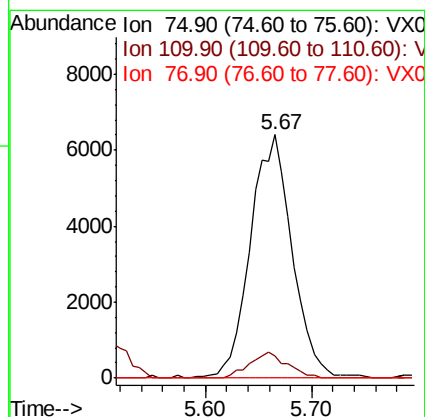
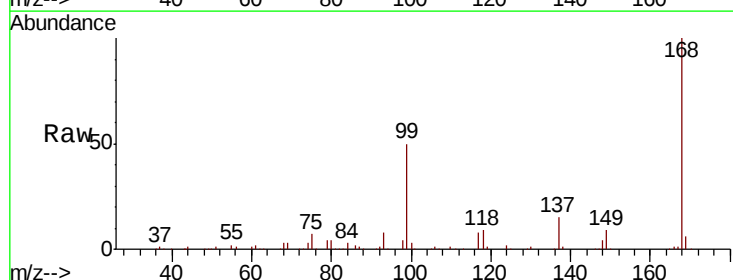
Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-AMW-4-M12W4-082318

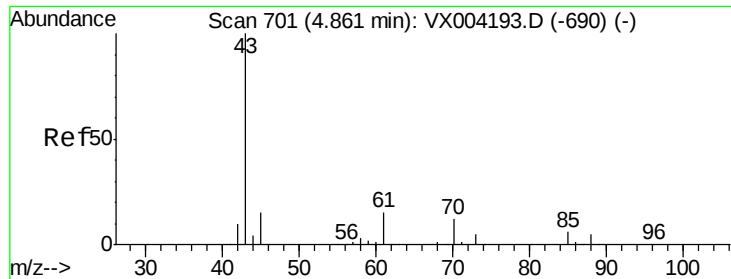
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.4	123.6
192	24.1	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.69 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004290.D
 Acq: 29 Aug 2018 14:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.0	54.0#
77	0.0	24.6	36.8#

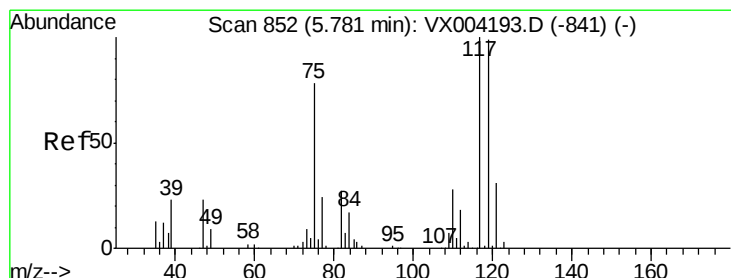
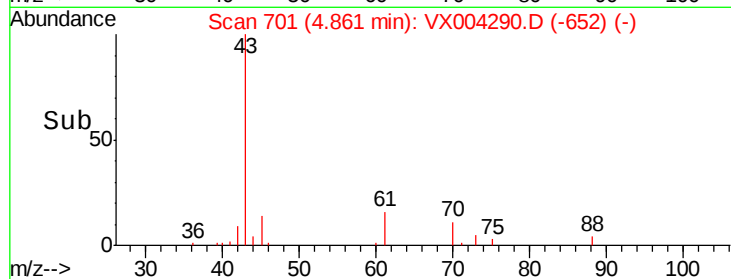
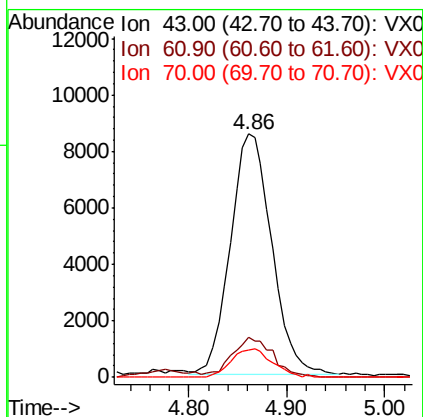
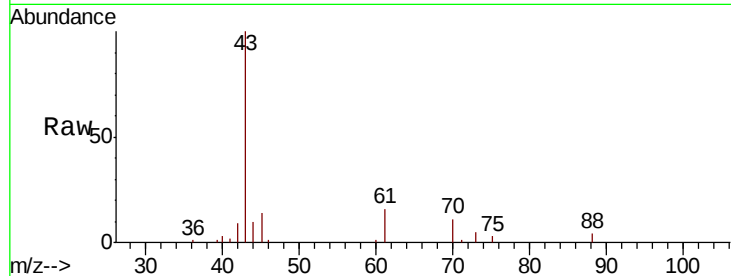




#37
Ethyl Acetate
Concen: 5.34 ug/l
RT: 4.86 min Scan# 701
Delta R.T. -0.00 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

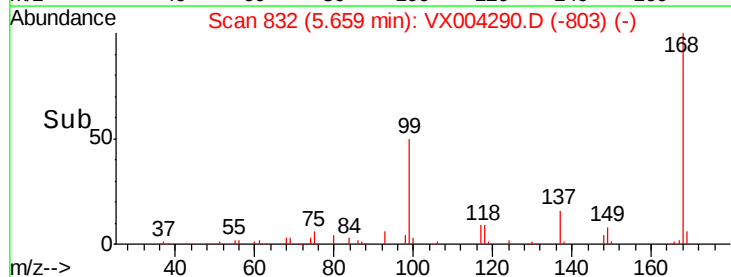
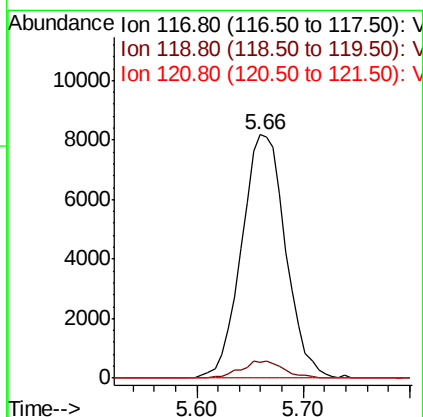
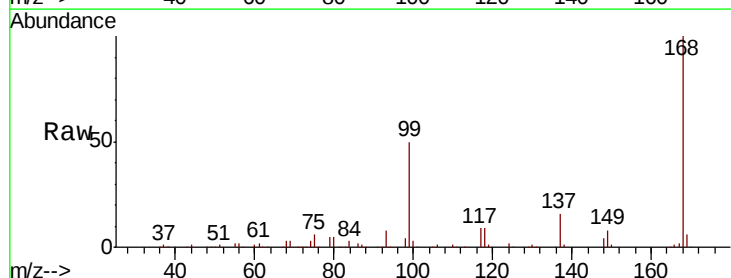
Instrument :
MSVOA_X
ClientSampleId :
CPA-AMW-4-M12W4-082318

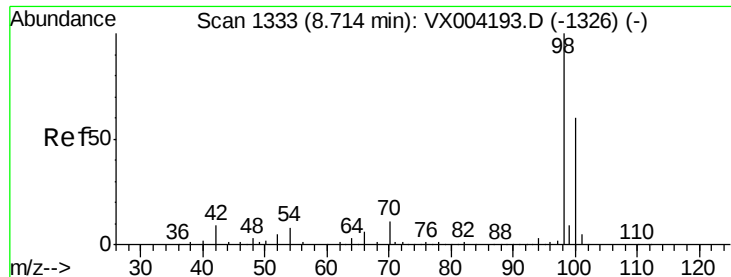
Tot Ion: 43 Resp: 24972
Ion Ratio Lower Upper
43 100
61 16.4 11.5 17.3
70 11.8 9.0 13.6



#38
Carbon Tetrachloride
Concen: 5.29 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.12 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

Tgt Ion: 117 Resp: 23667
Ion Ratio Lower Upper
117 100
119 6.3 78.8 118.2#
121 0.0 24.9 37.3#

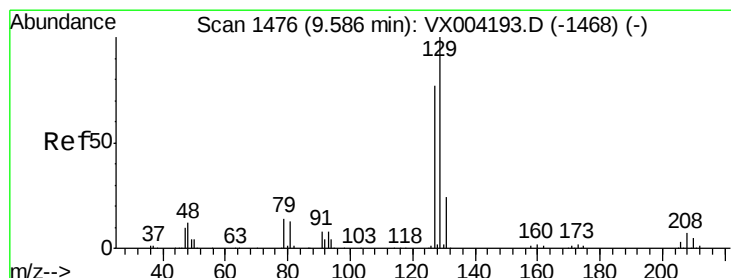
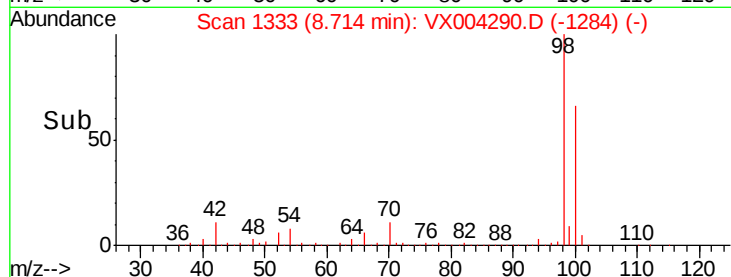
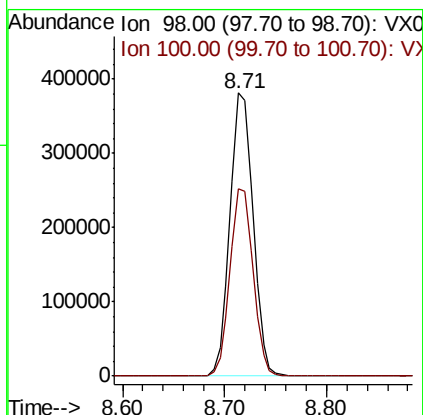
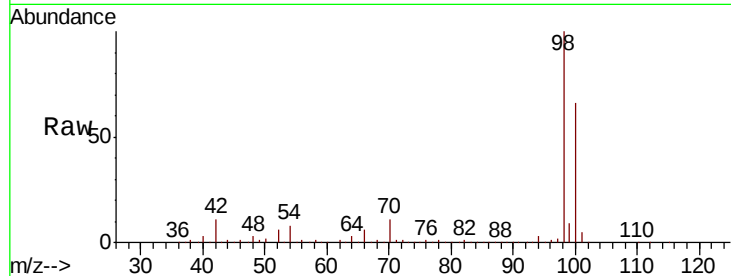




#50
Toluene-d8
Concen: 50.33 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

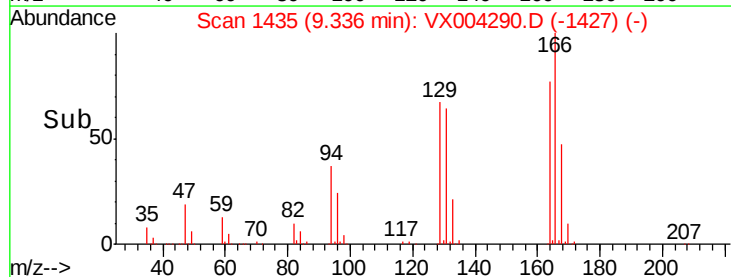
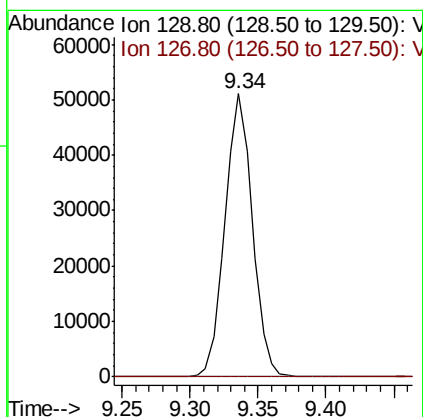
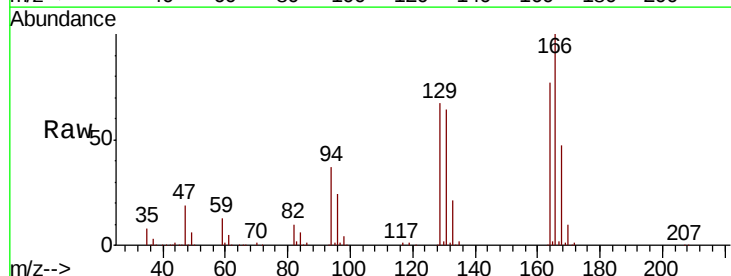
Instrument :
MSVOA_X
ClientSampleId :
CPA-AMW-4-M12W4-082318

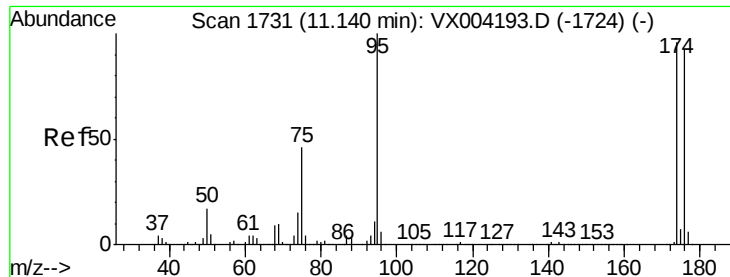
Tot Ion: 98 Resp: 597364
Ion Ratio Lower Upper
98 100
100 65.9 52.9 79.3



#60
Dibromochloromethane
Concen: 20.48 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

Tgt Ion: 129 Resp: 71588
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 46.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

Instrument :

MSVOA_X

ClientSampleId :

CPA-AMW-4-M12W4-082318

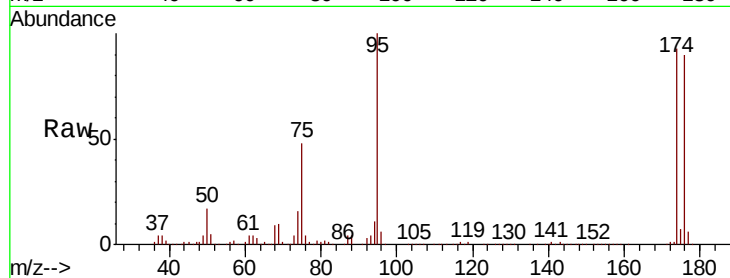
Tot Ion: 95 Resp: 204445

Ion Ratio Lower Upper

95 100

174 92.8 0.0 185.2

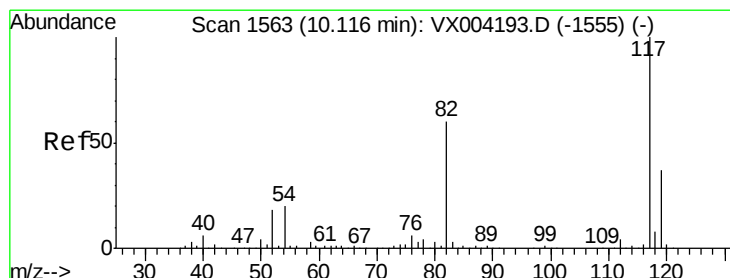
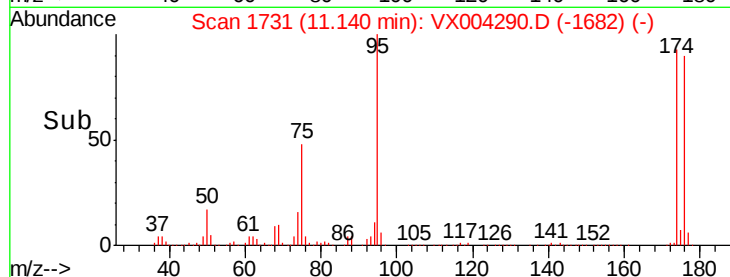
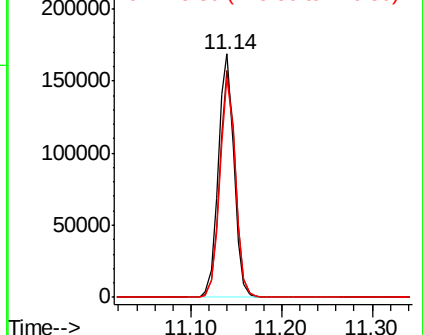
176 89.4 0.0 178.6



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: VX004290.D

Acq: 29 Aug 2018 14:03

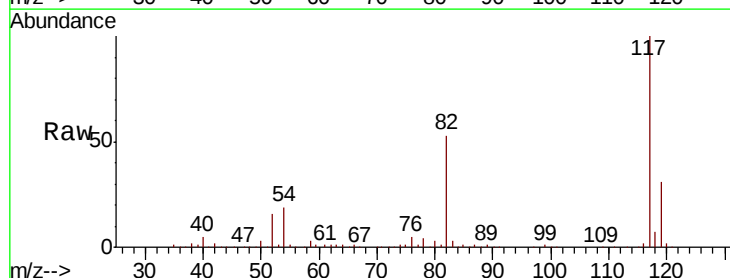
Tgt Ion: 117 Resp: 395706

Ion Ratio Lower Upper

117 100

82 52.9 47.8 71.6

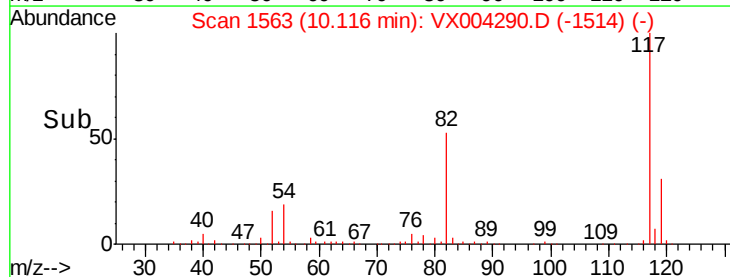
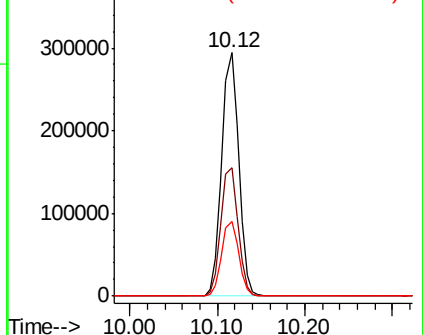
119 30.5 29.3 43.9

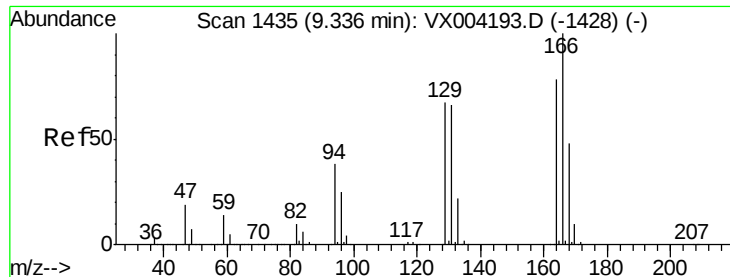


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

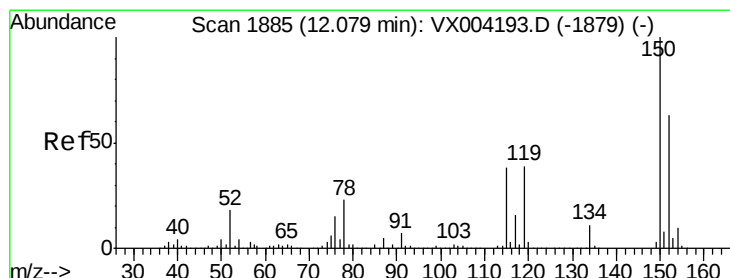
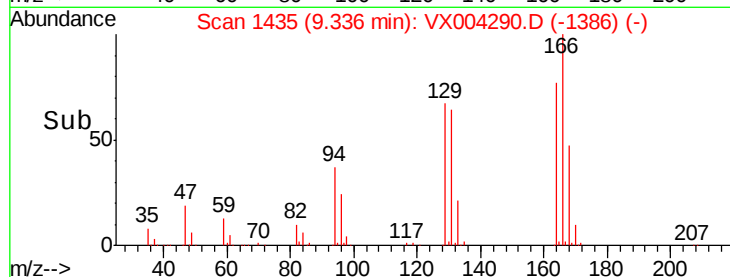
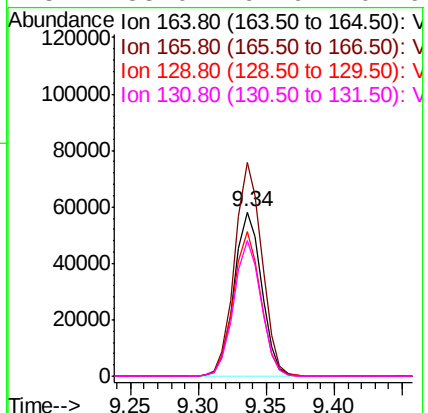
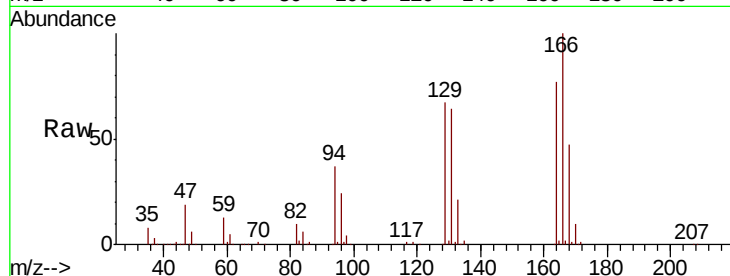




#64
Tetrachloroethene
Concen: 20.97 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

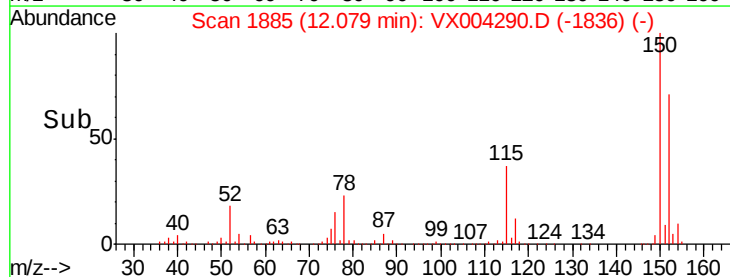
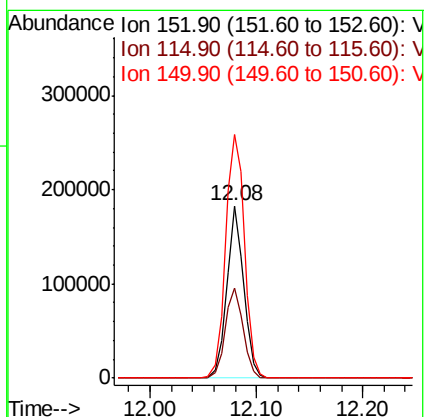
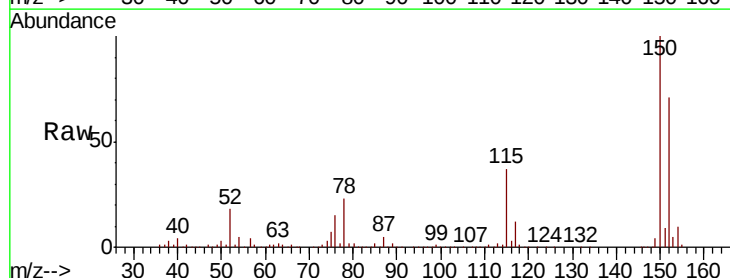
Instrument :
MSVOA_X
ClientSampleId :
CPA-AMW-4-M12W4-082318

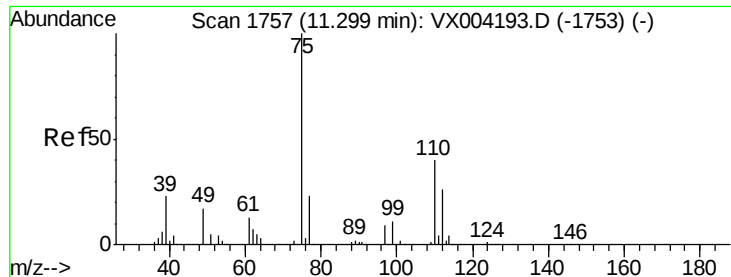
Tot Ion	Ratio	Lower	Upper
164	100		
166	130.4	102.8	154.2
129	88.0	69.4	104.0
131	83.0	67.9	101.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004290.D
Acq: 29 Aug 2018 14:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	39.0	117.0
150	157.6	0.0	351.0





#76

1,2,3-Trichloropropane

Concen: 23.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

Instrument :

MSVOA_X

ClientSampleId :

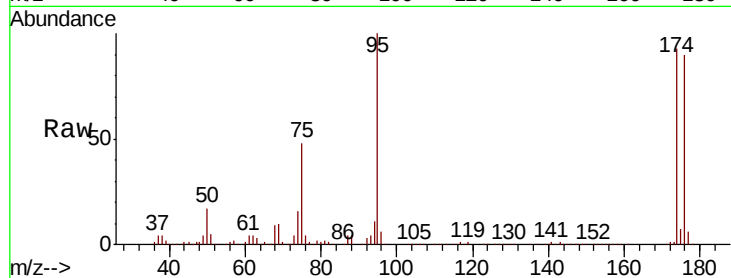
CPA-AMW-4-M12W4-082318

Tot Ion: 75 Resp: 97956

Ion Ratio Lower Upper

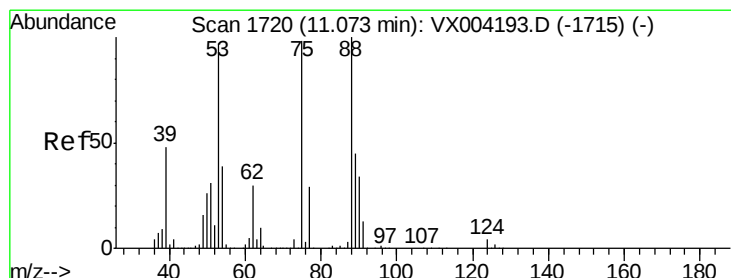
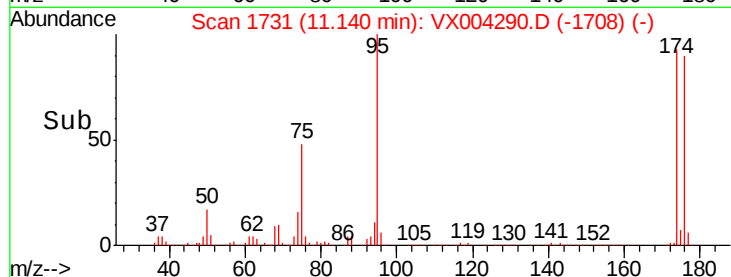
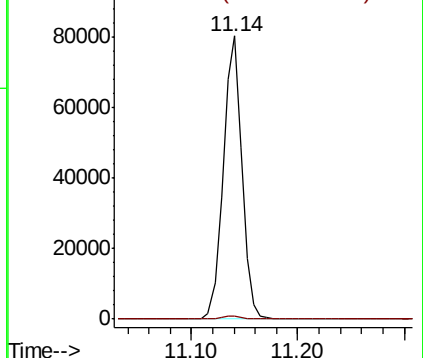
75 100

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: 76.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

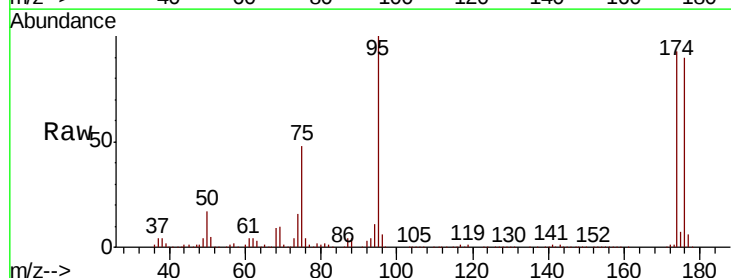
Tgt Ion: 75 Resp: 97956

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

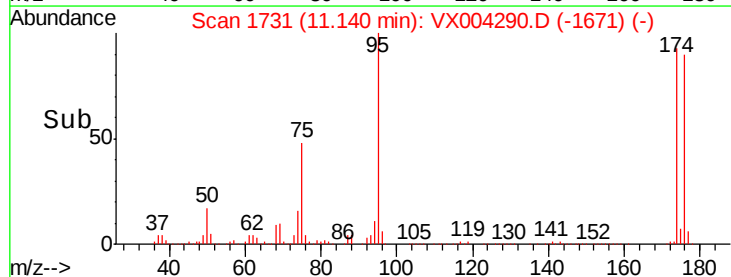
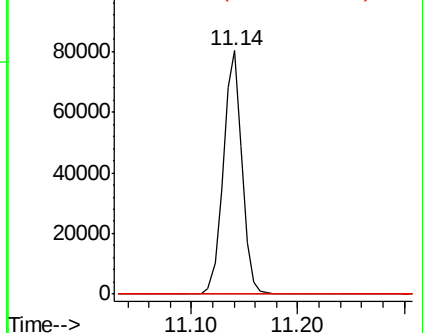
89 0.0 37.2 55.8#

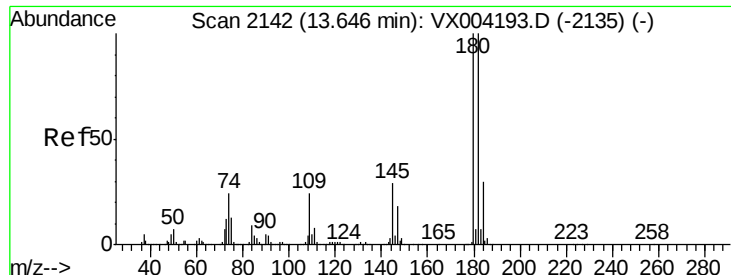


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.79 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. -0.00 min

Lab File: VX004290.D

Acq: 29 Aug 2018 14:03

Instrument :

MSVOA_X

ClientSampleId :

CPA-AMW-4-M12W4-082318

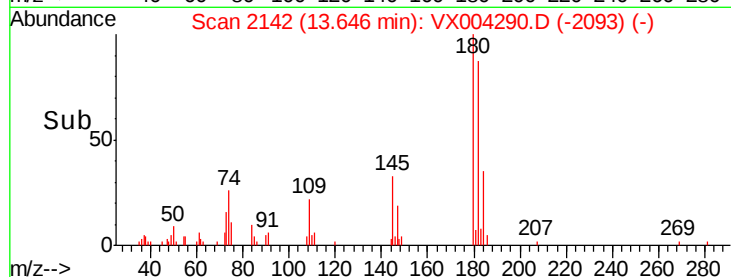
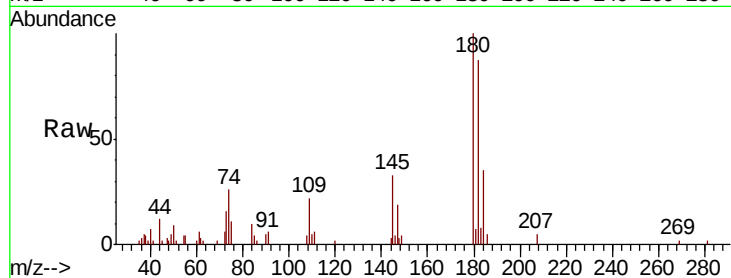
Tot Ion:180 Resp: 3709

Ion Ratio Lower Upper

180 100

182 94.9 48.4 145.0

145 30.1 14.3 42.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

