

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082918\
 Data File : VX004310.D
 Acq On : 29 Aug 2018 23:51
 Operator : JC/MD
 Sample : J4681-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-SW-15-M12W4-082218

Quant Time: Aug 30 02:14:20 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	262301	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	410167	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	390365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208569	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	186387	54.52	ug/l	0.00
Spiked Amount			Recovery	=	109.04%	
35) Dibromofluoromethane	5.50	113	163985	53.74	ug/l	0.00
Spiked Amount			Recovery	=	107.48%	
50) Toluene-d8	8.72	98	593446	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
62) 4-Bromofluorobenzene	11.14	95	205538	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	

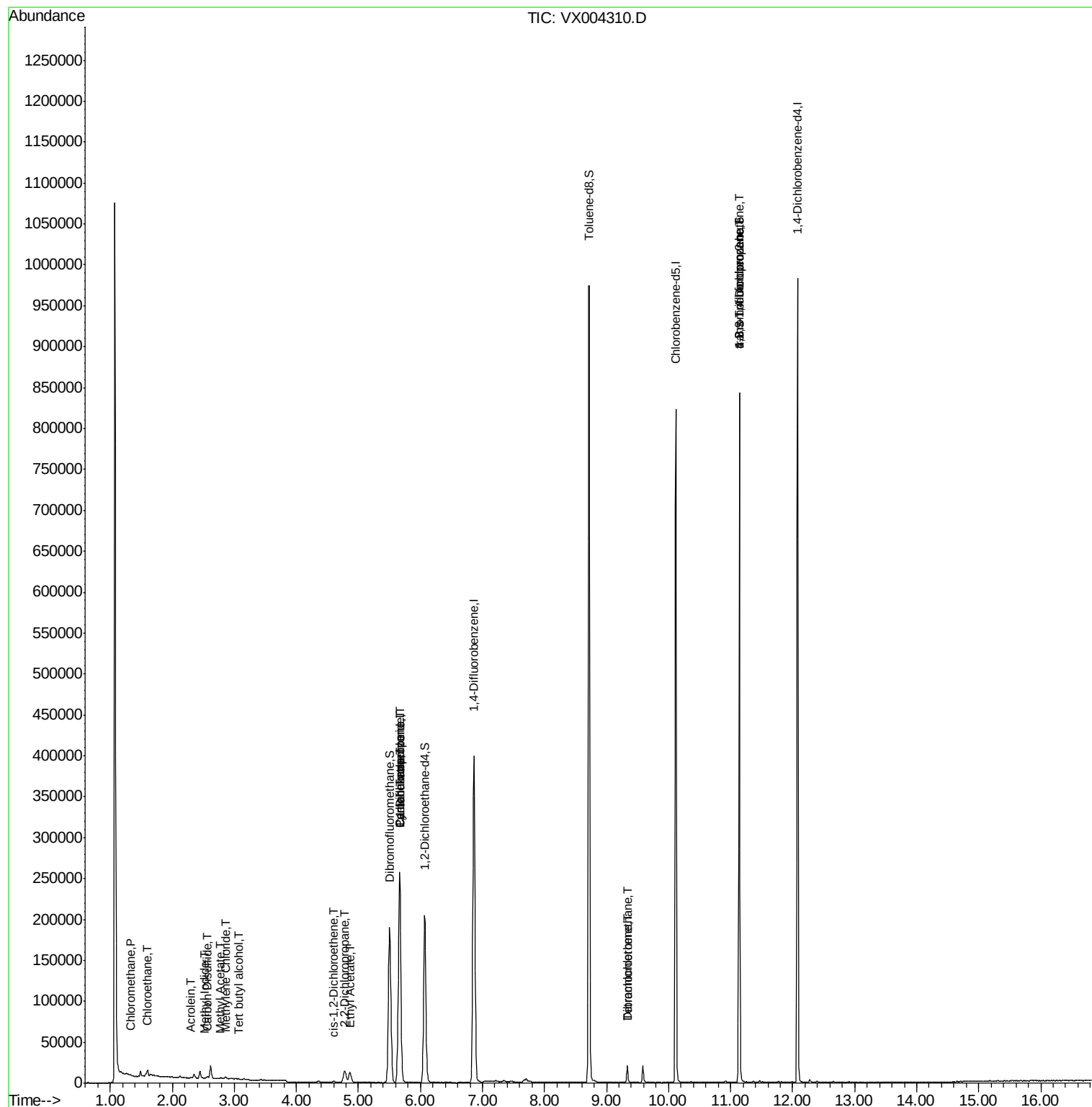
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1125	0.62	ug/l	95
5) Bromomethane	1.65	94	993	Below Cal	#	75
6) Chloroethane	1.59	64	4590	2.62	ug/l	# 48
10) Methyl Iodide	2.52	142	692	4.45	ug/l	# 88
11) Tert butyl alcohol	3.07	59	1058	1.45	ug/l	96
13) Acrolein	2.29	56	800	4.55	ug/l	# 54
16) Acetone	2.45	43	8936	Below Cal		97
17) Carbon Disulfide	2.57	76	3311	1.22	ug/l	96
18) Methyl Acetate	2.78	43	1199	0.24	ug/l	97
20) Methylene Chloride	2.85	84	787	0.24	ug/l	# 90
25) 2-Butanone	4.71	43	1089	Below Cal	#	82
26) 2,2-Dichloropropane	4.78	77	1194	0.27	ug/l	# 52
27) cis-1,2-Dichloroethene	4.59	96	1182	0.34	ug/l	97
31) Cyclohexane	5.66	56	4463	0.93	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17998	3.90	ug/l	# 49
37) Ethyl Acetate	4.86	43	21058	4.64	ug/l	99
38) Carbon Tetrachloride	5.67	117	22988	5.30	ug/l	# 17
60) Dibromochloromethane	9.34	129	3667	1.08	ug/l	# 11
64) Tetrachloroethene	9.34	164	4132	1.07	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	97915	23.08	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	97915	74.89	ug/l	# 10
94) Hexachlorobutadiene	13.79	225	75	Below Cal	#	62

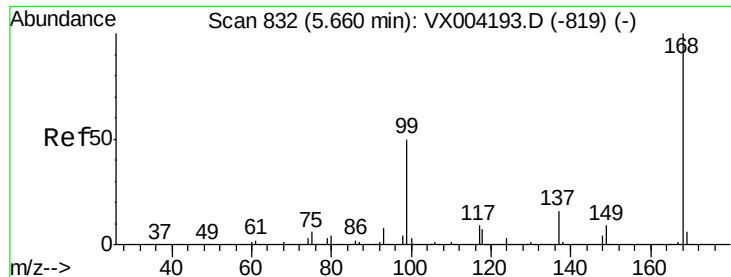
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

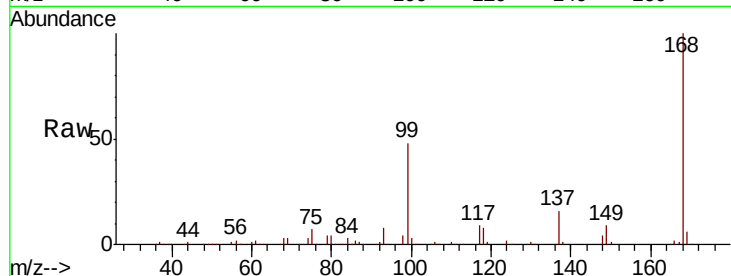
CPA-SW-15-M12W4-082218

Tot Ion:168 Resp: 262301

Ion Ratio Lower Upper

168 100

99 48.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

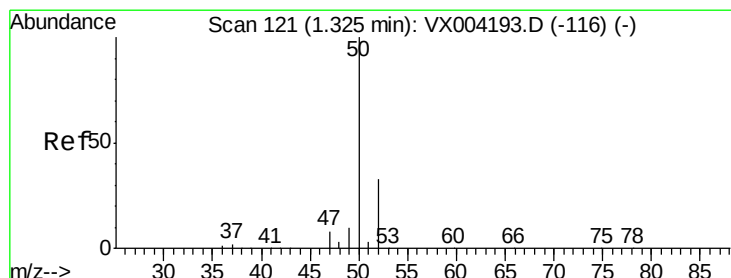
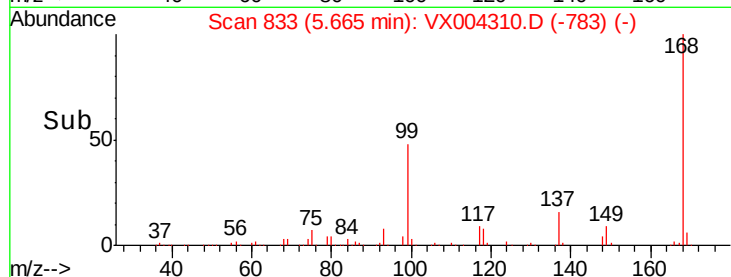
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.62 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004310.D

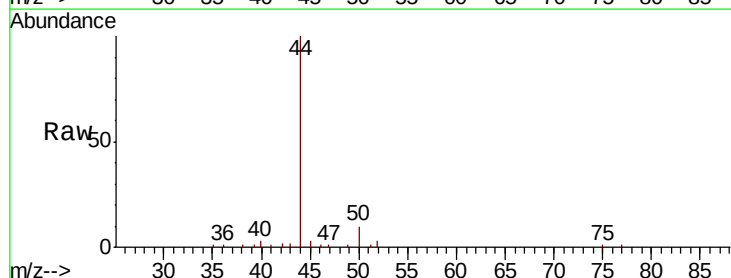
Acq: 29 Aug 2018 23:51

Tgt Ion: 50 Resp: 1125

Ion Ratio Lower Upper

50 100

52 35.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

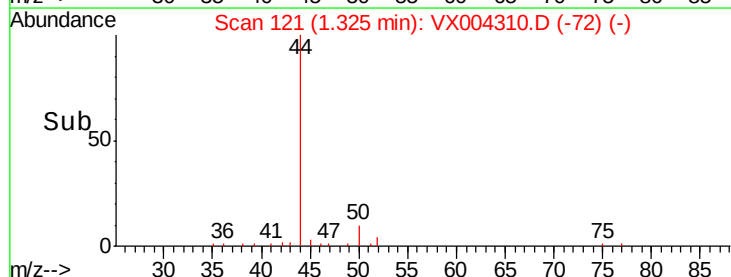
400

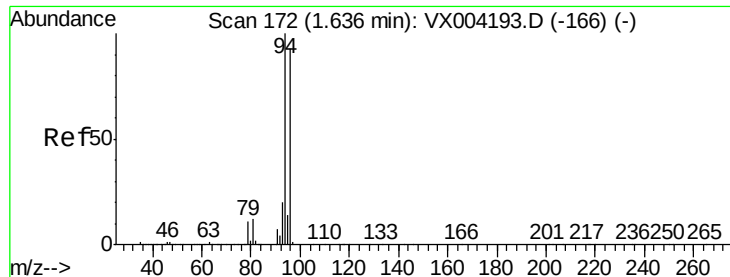
200

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

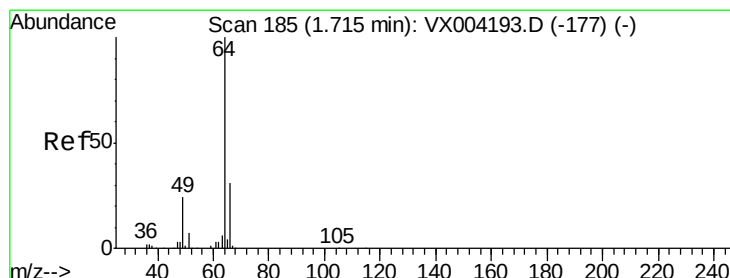
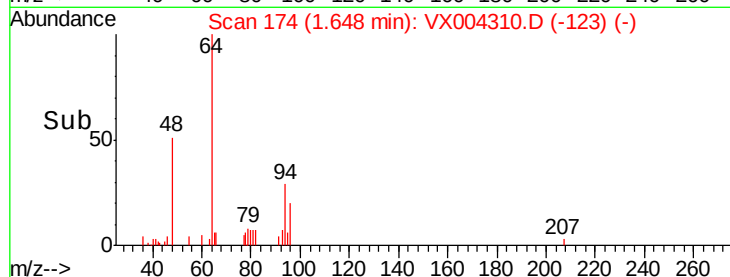
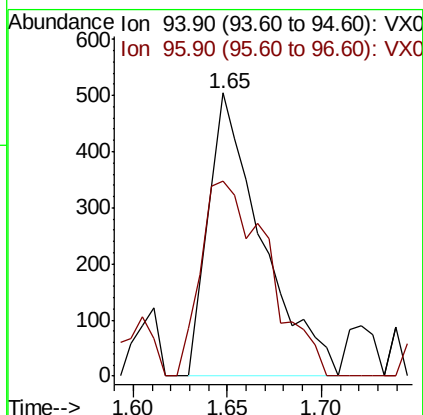
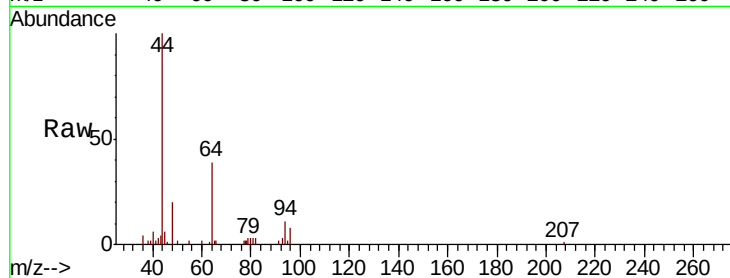
CPA-SW-15-M12W4-082218

Tot Ion: 94 Resp: 993

Ion Ratio Lower Upper

94 100

96 69.0 74.5 111.7#



#6

Chloroethane

Concen: 2.62 ug/l

RT: 1.59 min Scan# 165

Delta R.T. -0.12 min

Lab File: VX004310.D

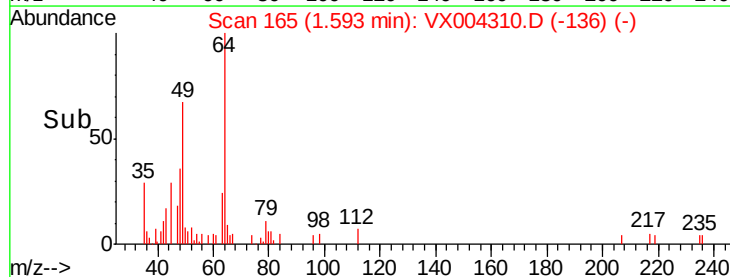
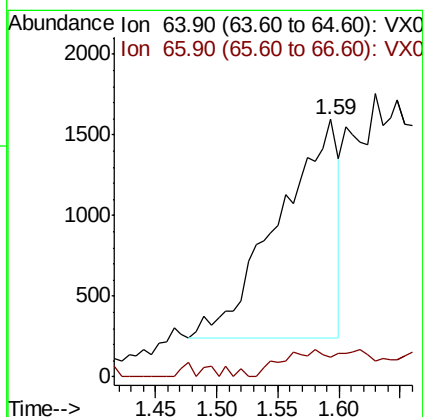
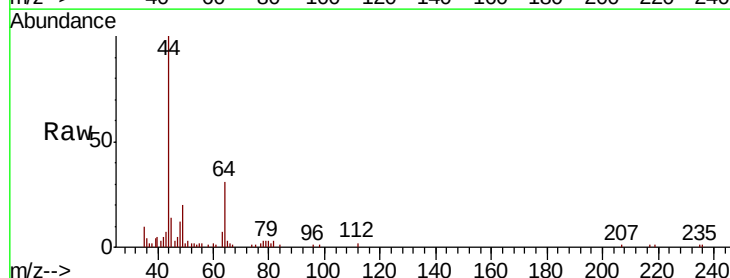
Acq: 29 Aug 2018 23:51

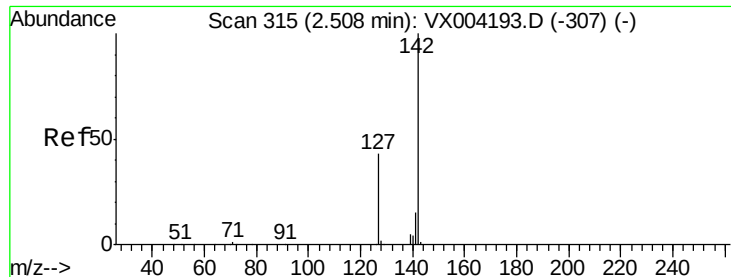
Tgt Ion: 64 Resp: 4590

Ion Ratio Lower Upper

64 100

66 2.0 24.6 36.8#





#10

Methyl Iodide

Concen: 4.45 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-15-M12W4-082218

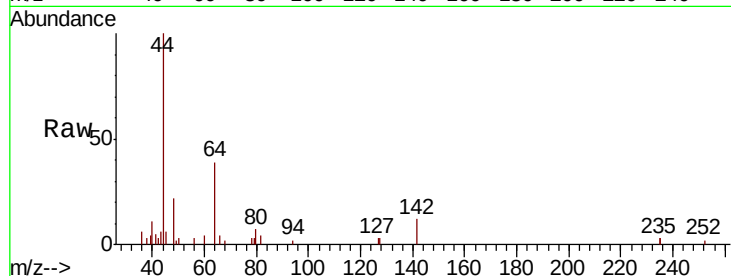
Tot Ion:142 Resp: 692

Ion Ratio Lower Upper

142 100

127 39.7 33.8 50.6

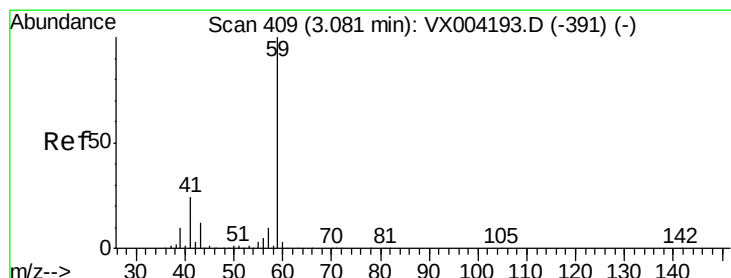
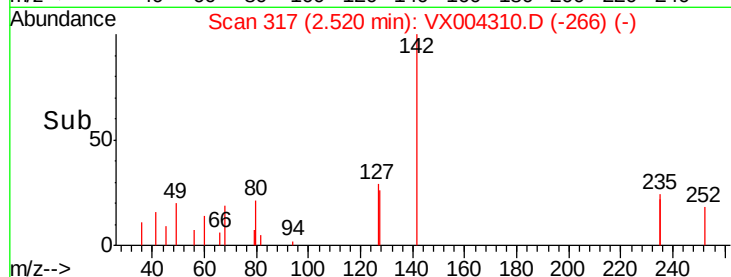
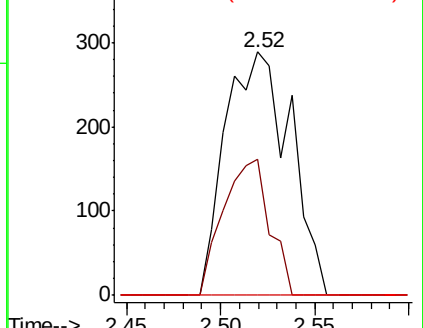
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.45 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX004310.D

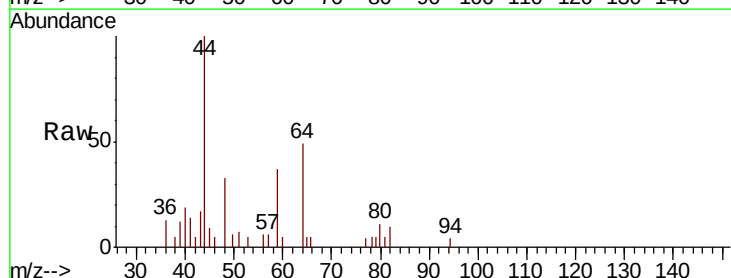
Acq: 29 Aug 2018 23:51

Tgt Ion: 59 Resp: 1058

Ion Ratio Lower Upper

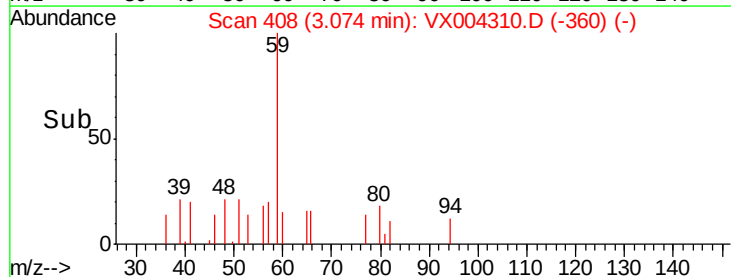
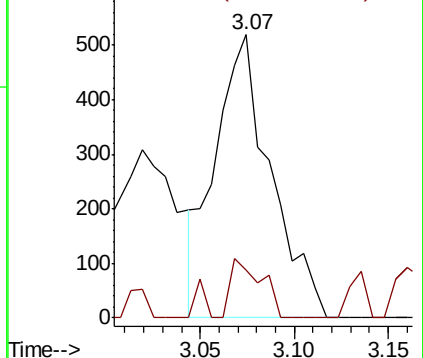
59 100

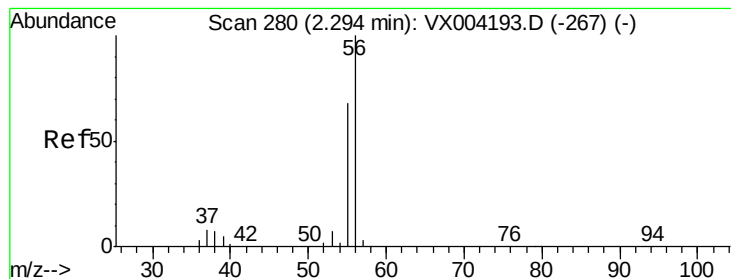
57 11.6 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 4.55 ua/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

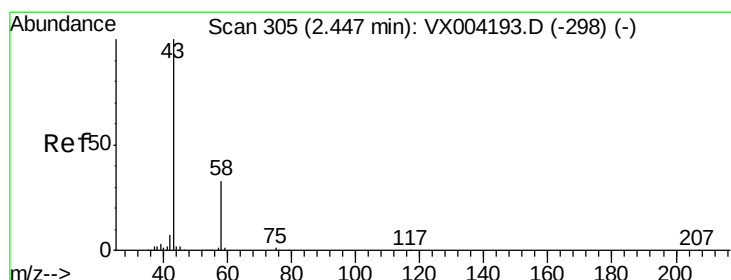
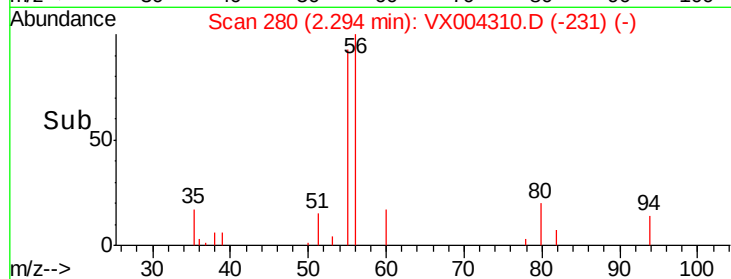
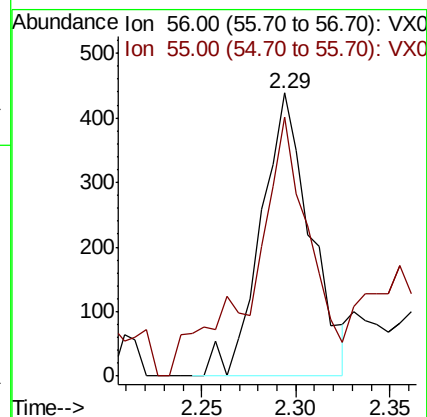
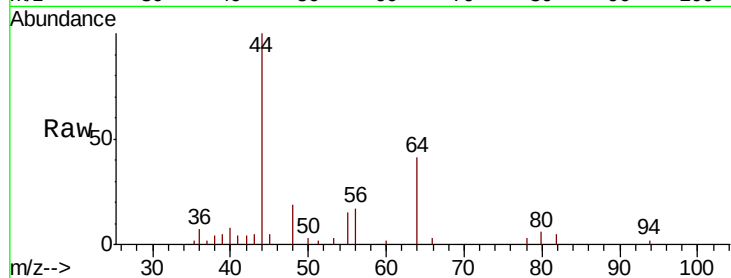
CPA-SW-15-M12W4-082218

Tot Ion: 56 Resp: 800

Ion Ratio Lower Upper

56 100

55 105.8 54.7 82.1#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004310.D

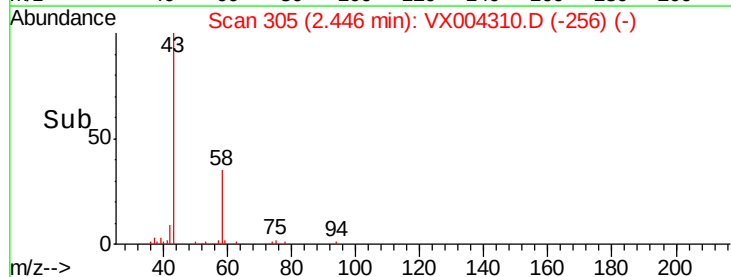
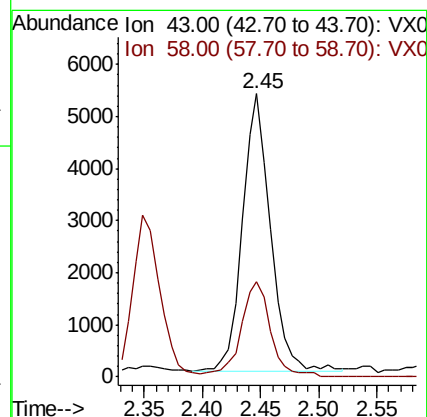
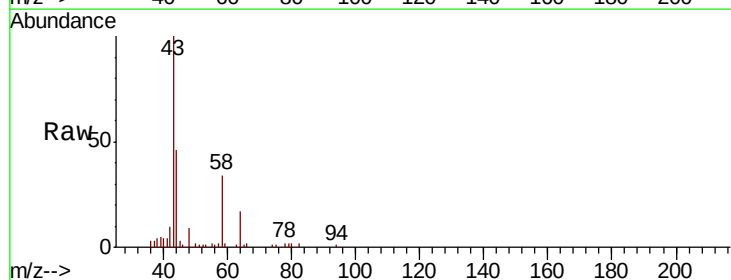
Acq: 29 Aug 2018 23:51

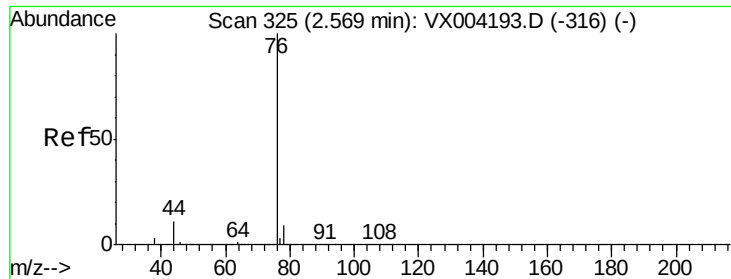
Tgt Ion: 43 Resp: 8936

Ion Ratio Lower Upper

43 100

58 34.4 26.2 39.4

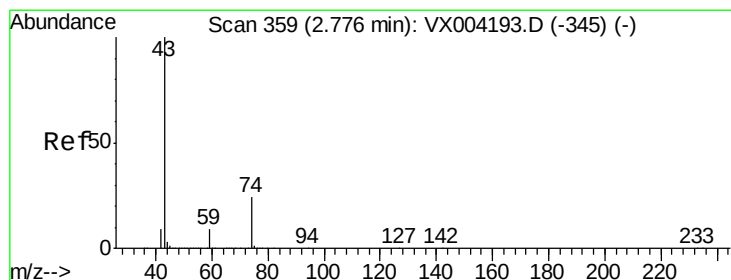
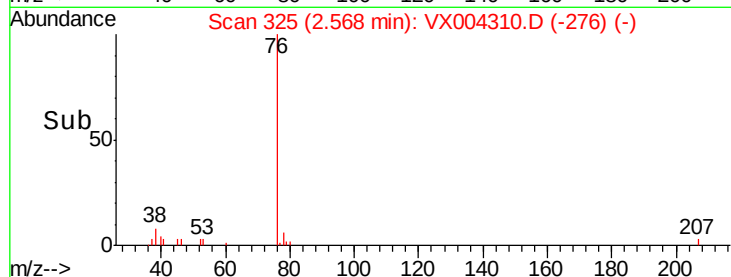
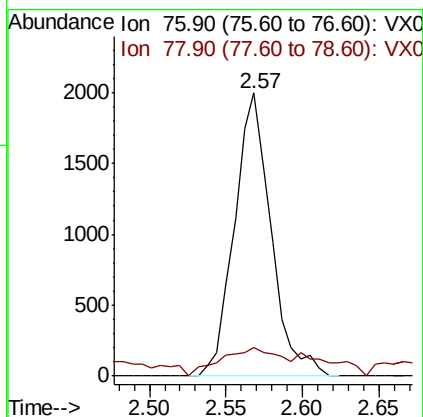
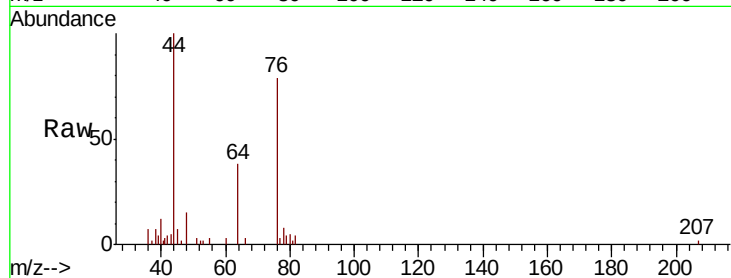




#17
Carbon Disulfide
Concen: 1.22 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX004310.D
Acq: 29 Aug 2018 23:51

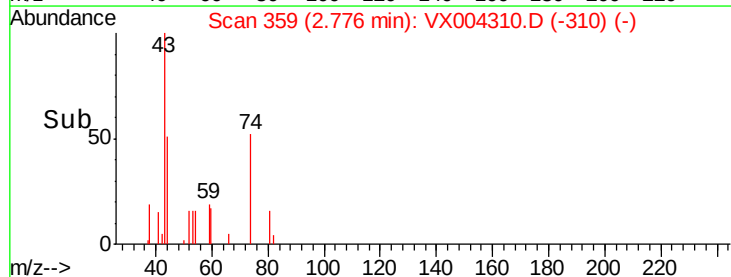
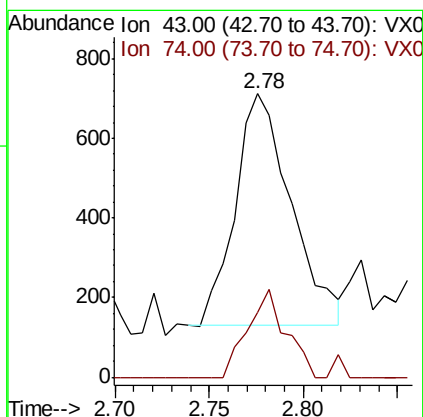
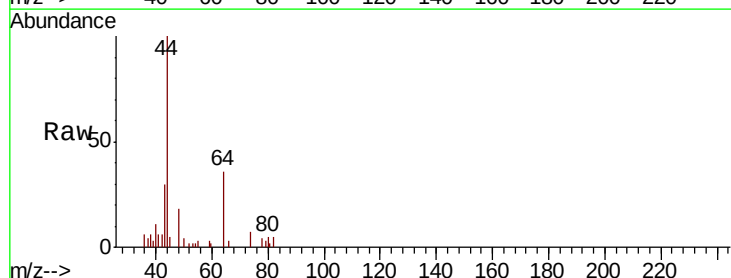
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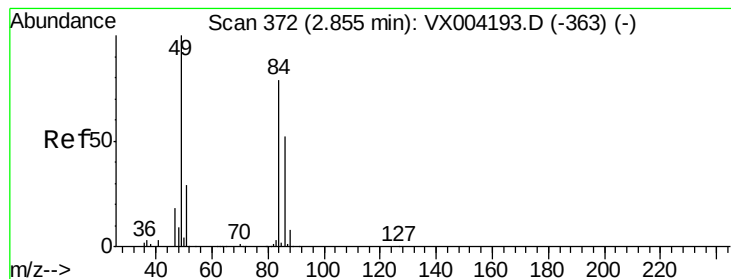
Tot Ion: 76 Resp: 3311
Ion Ratio Lower Upper
76 100
78 10.2 7.0 10.6



#18
Methyl Acetate
Concen: 0.24 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.00 min
Lab File: VX004310.D
Acq: 29 Aug 2018 23:51

Tgt Ion: 43 Resp: 1199
Ion Ratio Lower Upper
43 100
74 25.9 19.4 29.2





#20

Methylene Chloride

Concen: 0.24 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-15-M12W4-082218

Tot Ion: 84 Resp: 787

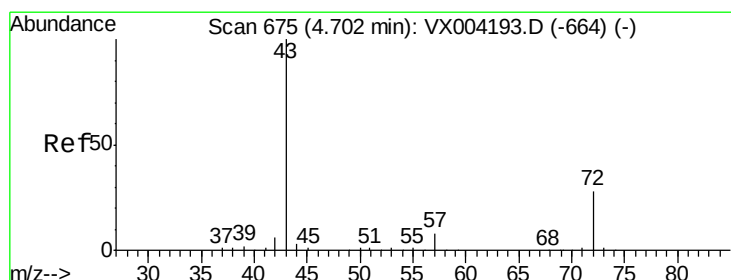
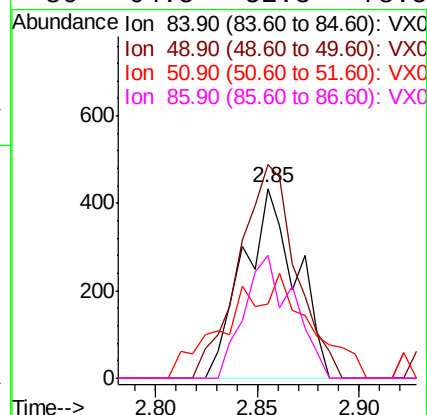
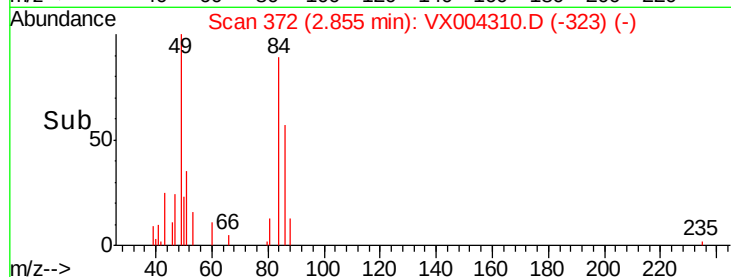
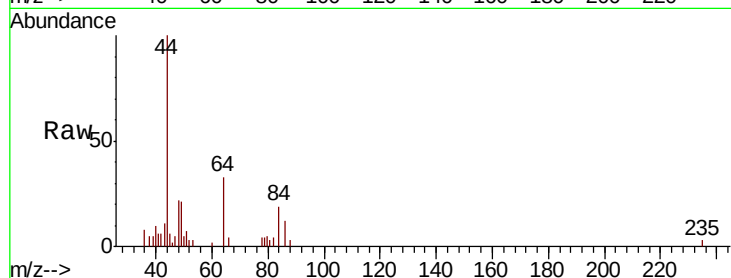
Ion Ratio Lower Upper

84 100

49 112.7 101.2 151.8

51 26.7 29.5 44.3#

86 64.5 52.3 78.5



#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX004310.D

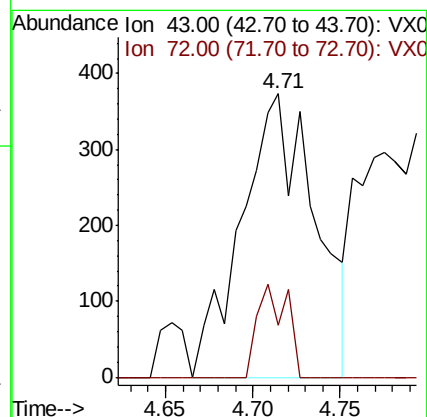
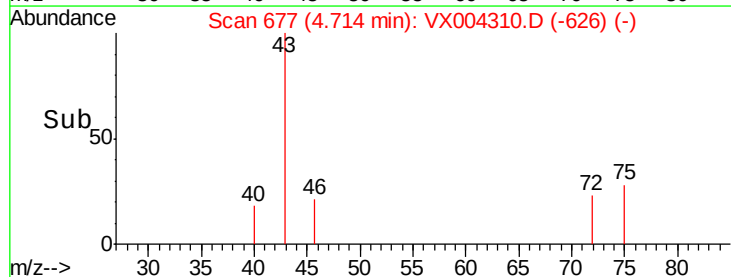
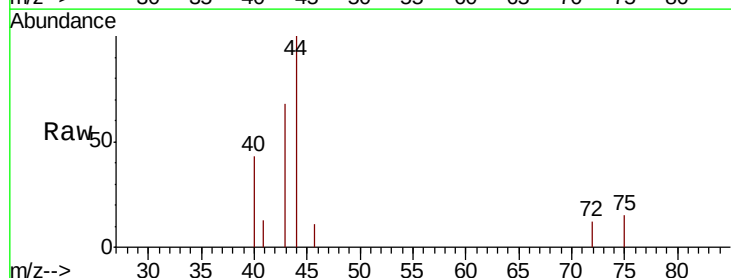
Acq: 29 Aug 2018 23:51

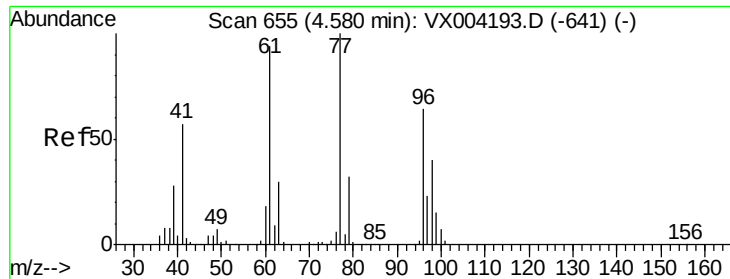
Tgt Ion: 43 Resp: 1089

Ion Ratio Lower Upper

43 100

72 18.2 22.0 33.0#

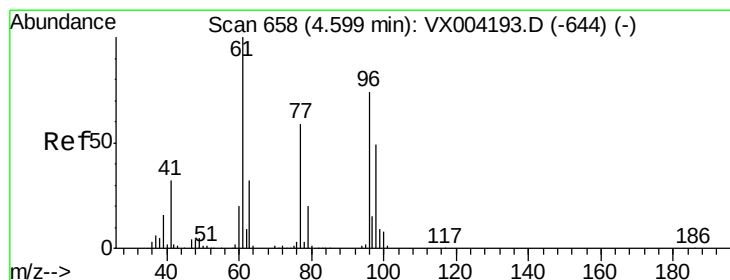
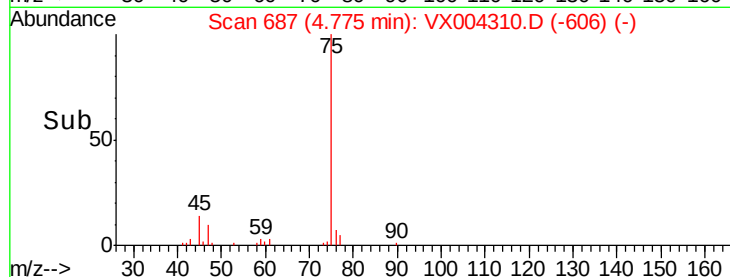
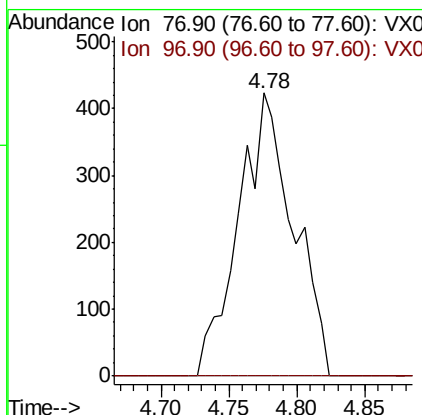
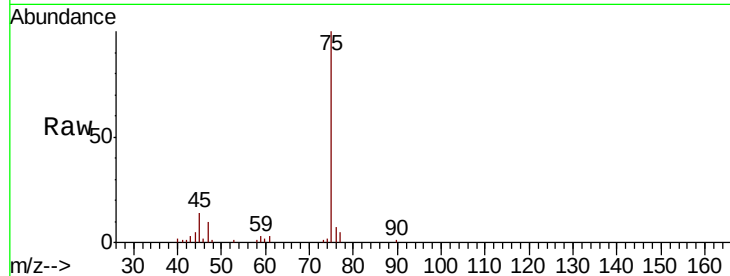




#26
 2,2-Dichloropropane
 Concen: 0.27 ug/l
 RT: 4.78 min Scan# 687
 Delta R.T. 0.19 min
 Lab File: VX004310.D
 Acq: 29 Aug 2018 23:51

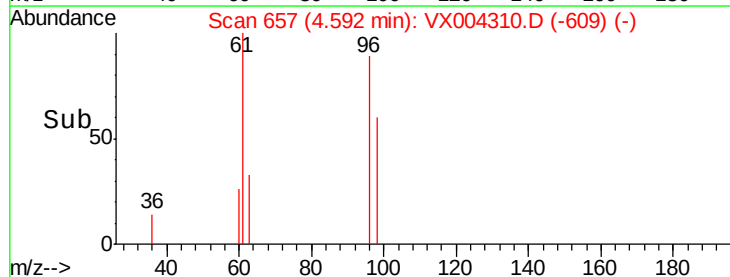
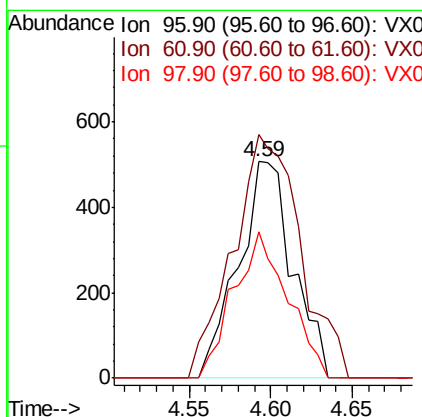
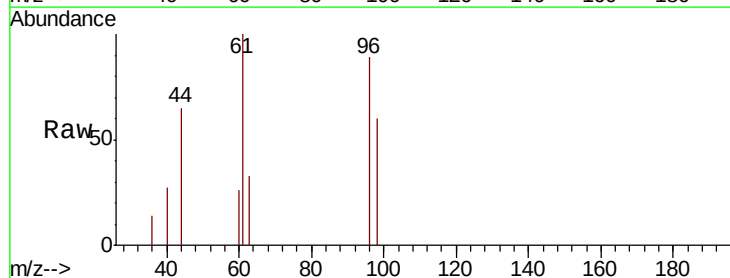
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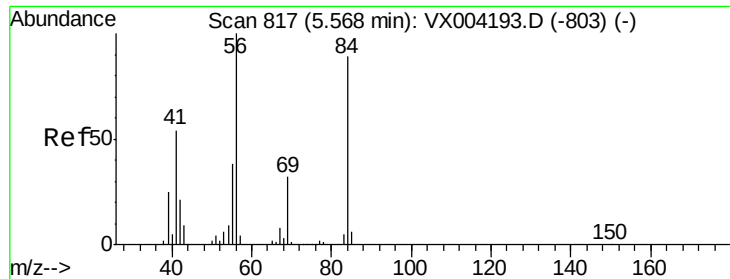
Tot Ion: 77 Resp: 1194
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.7 35.0#



#27
 cis-1,2-Dichloroethene
 Concen: 0.34 ug/l
 RT: 4.59 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VX004310.D
 Acq: 29 Aug 2018 23:51

Tgt Ion: 96 Resp: 1182
 Ion Ratio Lower Upper
 96 100
 61 137.8 0.0 282.6
 98 66.8 0.0 130.2

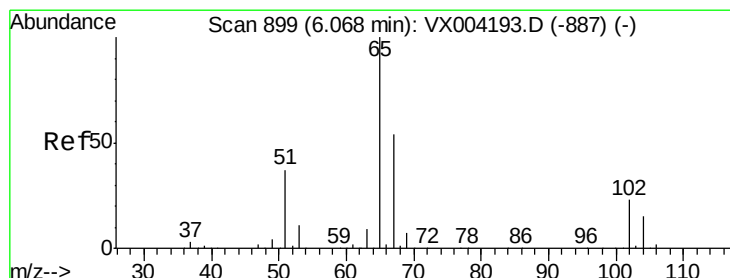
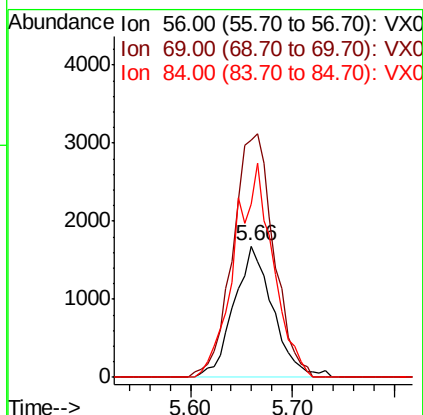
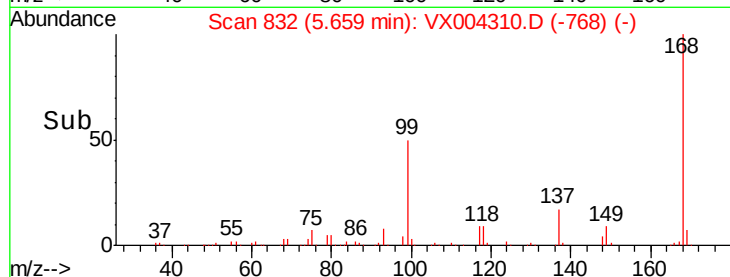
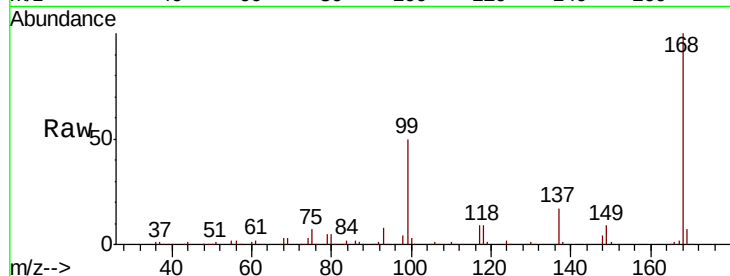




#31
Cyclohexane
Concen: 0.93 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.09 min
Lab File: VX004310.D
Acq: 29 Aug 2018 23:51

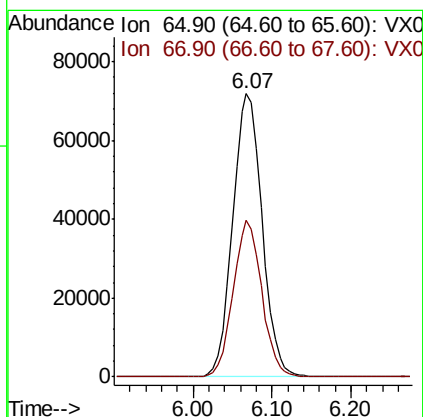
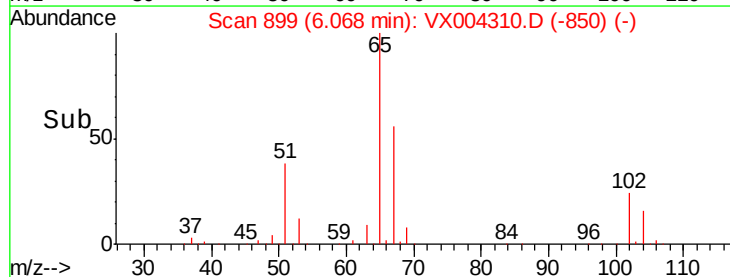
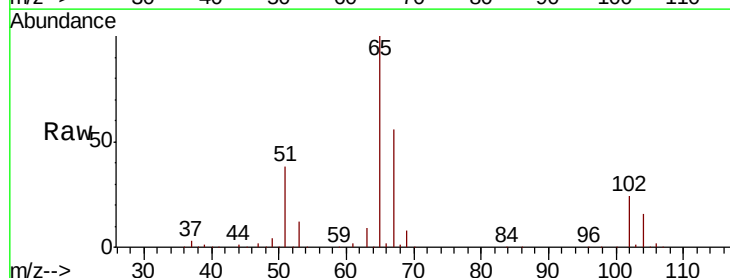
Instrument :
MSVOA_X
ClientSampleId :
CPA-SW-15-M12W4-082218

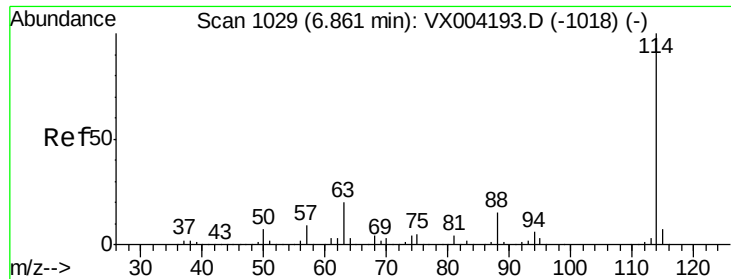
Tot Ion: 56 Resp: 4463
Ion Ratio Lower Upper
56 100
69 180.9 25.4 38.2#
84 131.5 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 54.52 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX004310.D
Acq: 29 Aug 2018 23:51

Tgt Ion: 65 Resp: 186387
Ion Ratio Lower Upper
65 100
67 53.9 0.0 106.8

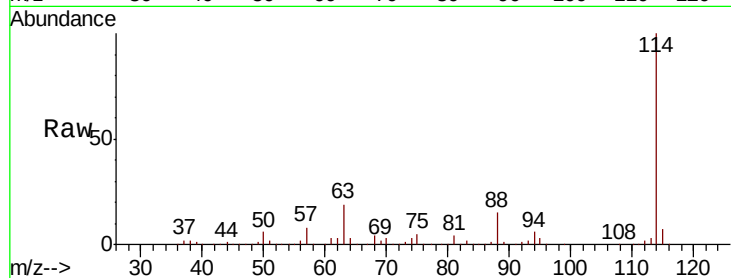




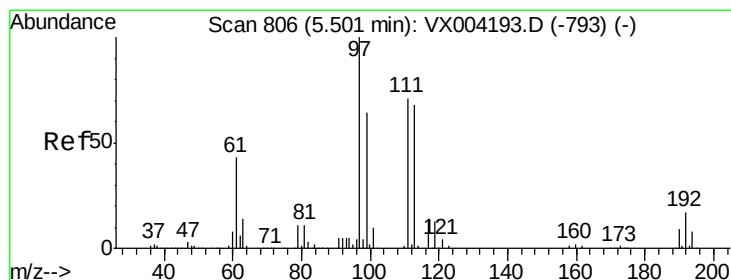
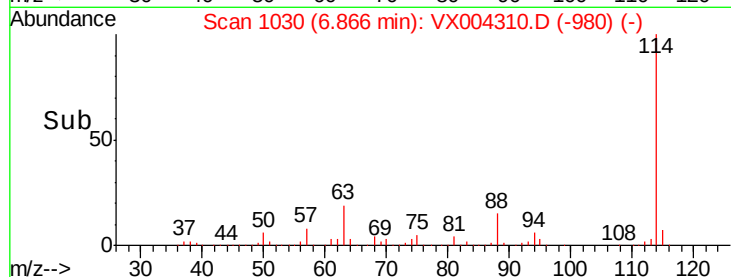
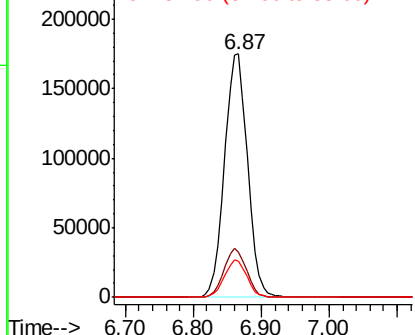
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX004310.D
 Acq: 29 Aug 2018 23:51

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-SW-15-M12W4-082218

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	39.0
88	14.9	0.0	30.4

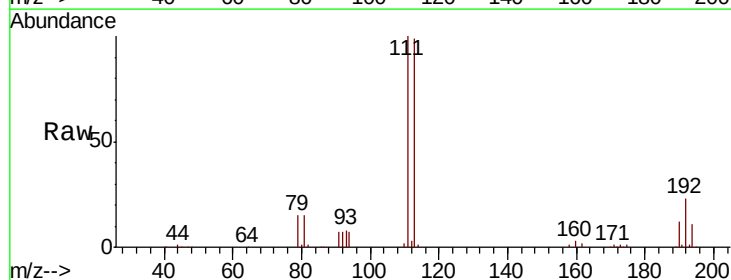


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

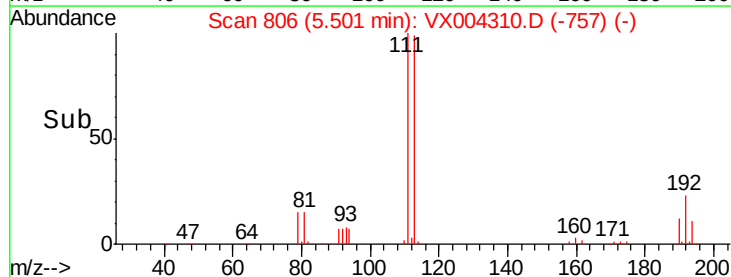
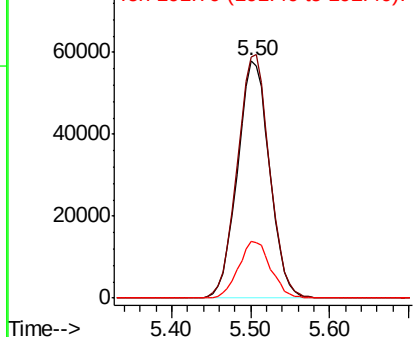


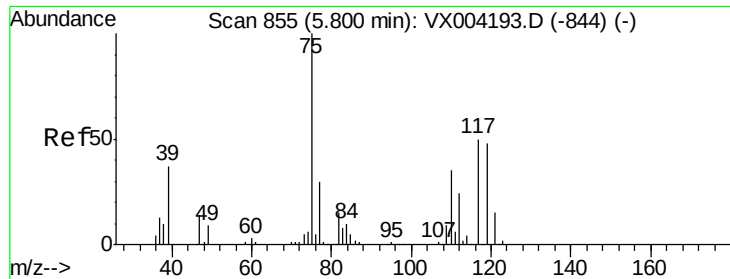
#35
 Dibromofluoromethane
 Concen: 53.74 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004310.D
 Acq: 29 Aug 2018 23:51

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	23.9	19.4	29.2



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

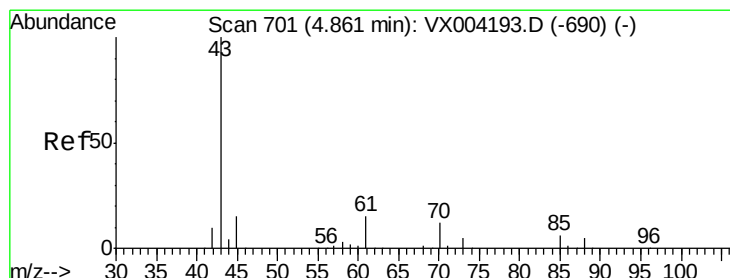
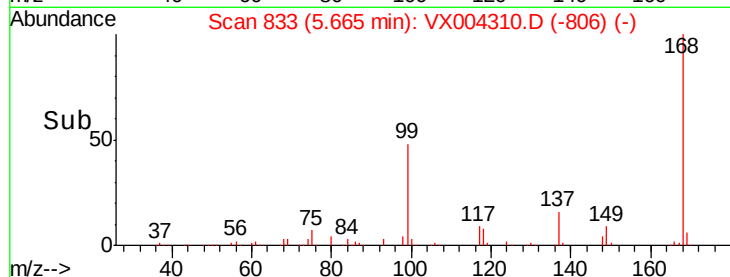
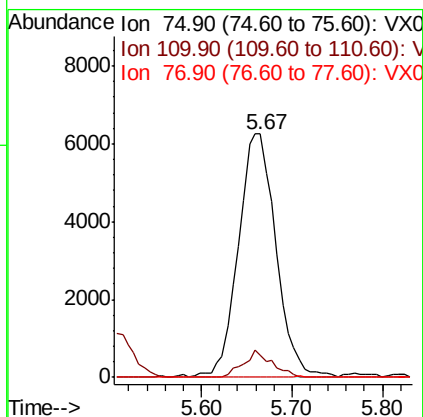
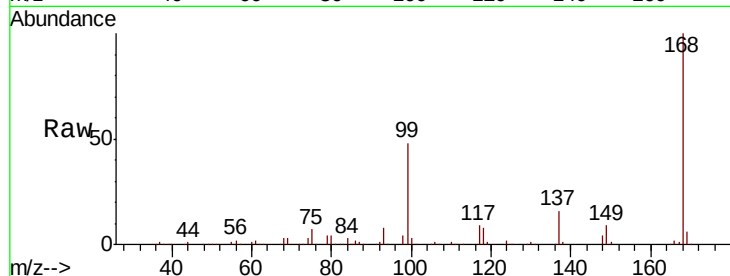




#36
 1,1-Dichloropropene
 Concen: 3.90 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004310.D
 Acq: 29 Aug 2018 23:51

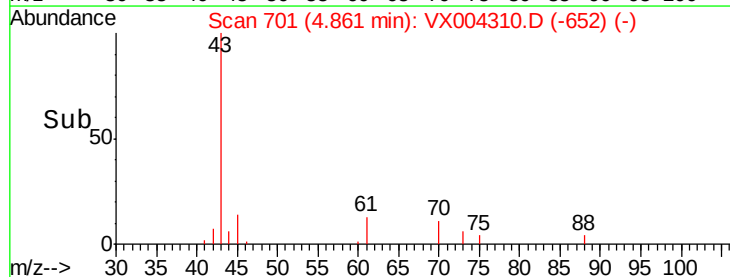
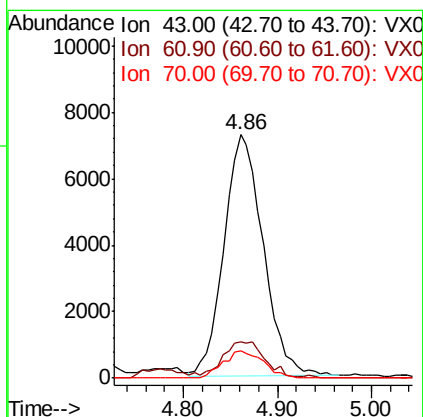
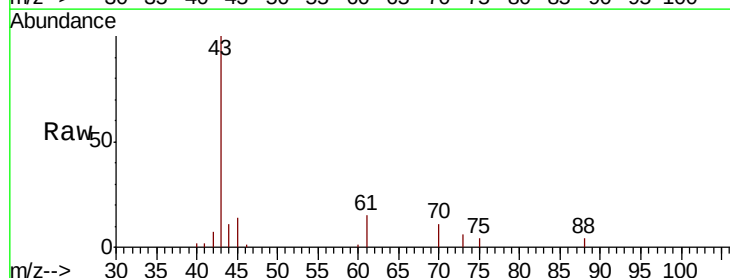
Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-SW-15-M12W4-082218

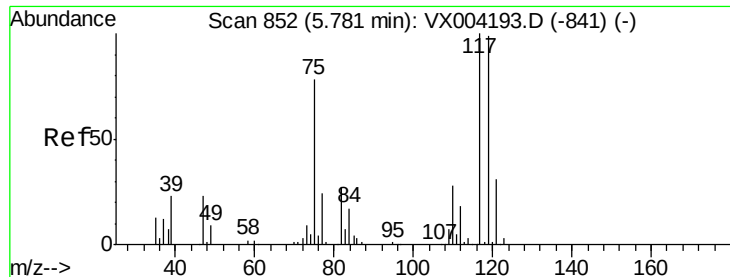
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.0	54.0#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 4.64 ug/l
 RT: 4.86 min Scan# 701
 Delta R.T. -0.00 min
 Lab File: VX004310.D
 Acq: 29 Aug 2018 23:51

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.5	17.3
70	11.6	9.0	13.6





#38

Carbon Tetrachloride

Concen: 5.30 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-15-M12W4-082218

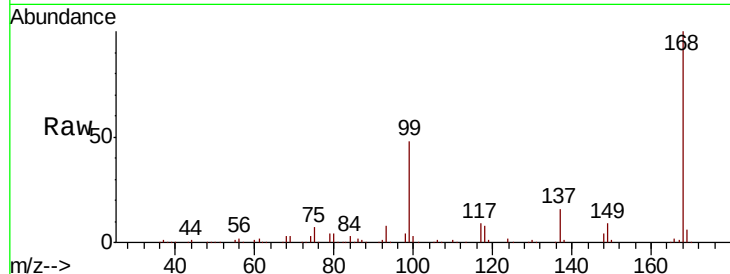
Tot Ion:117 Resp: 22988

Ion Ratio Lower Upper

117 100

119 8.0 78.8 118.2#

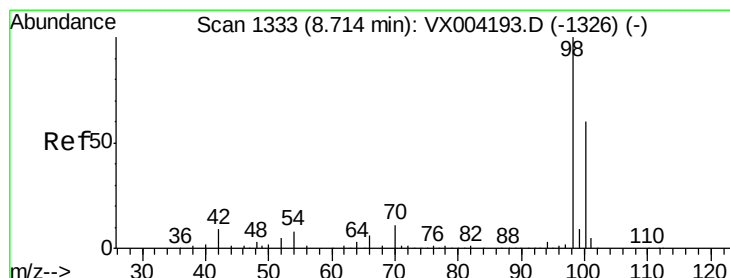
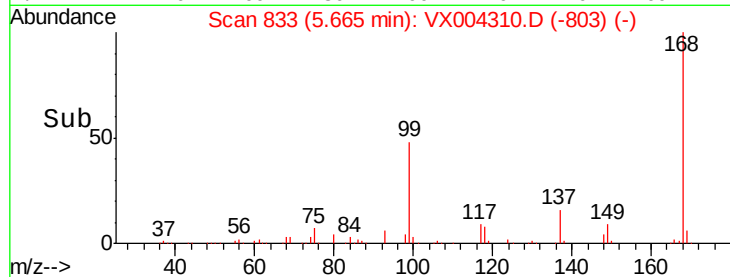
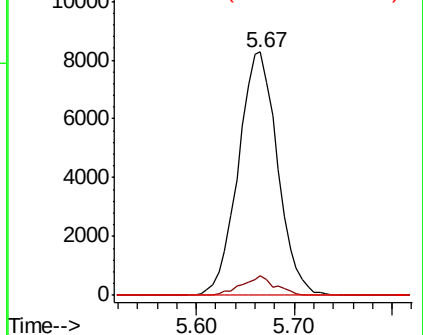
121 0.0 24.9 37.3#



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: 51.52 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.01 min

Lab File: VX004310.D

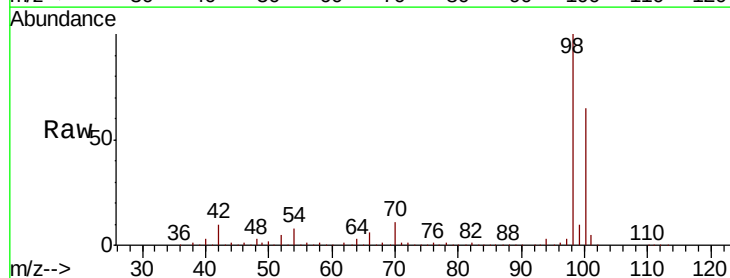
Acq: 29 Aug 2018 23:51

Tgt Ion: 98 Resp: 593446

Ion Ratio Lower Upper

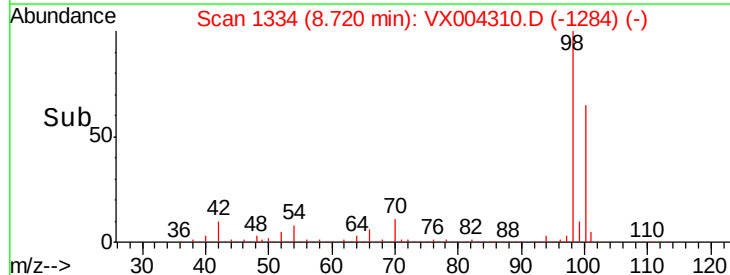
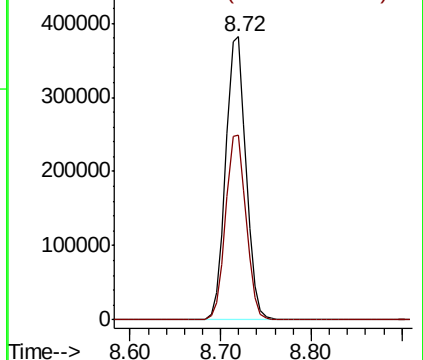
98 100

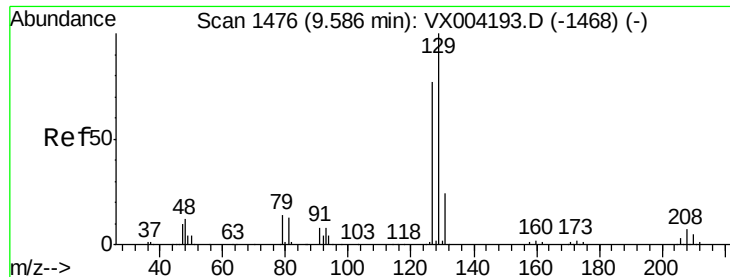
100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 1.08 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

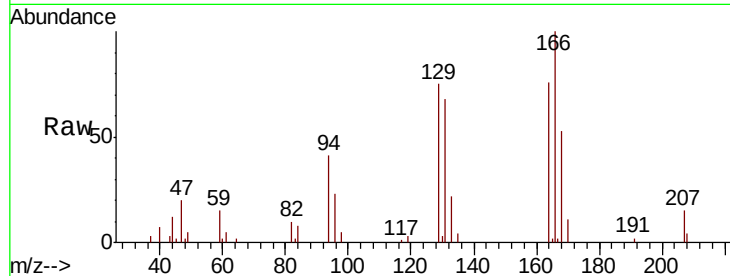
CPA-SW-15-M12W4-082218

Tot Ion:129 Resp: 3667

Ion Ratio Lower Upper

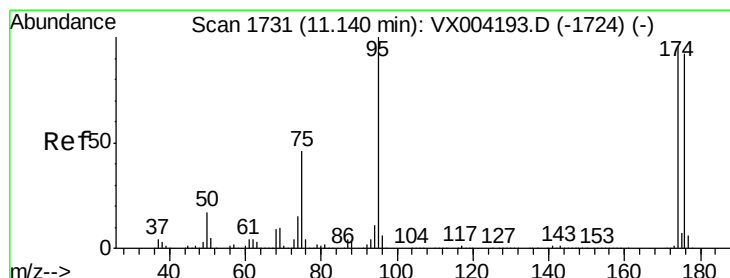
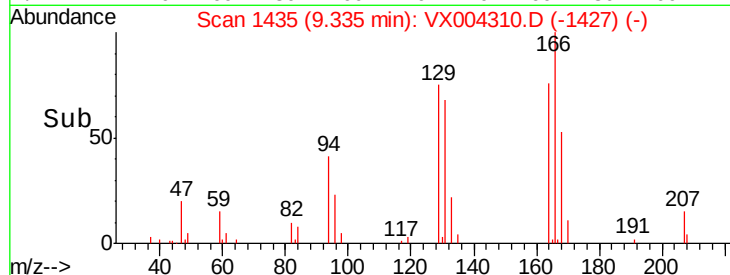
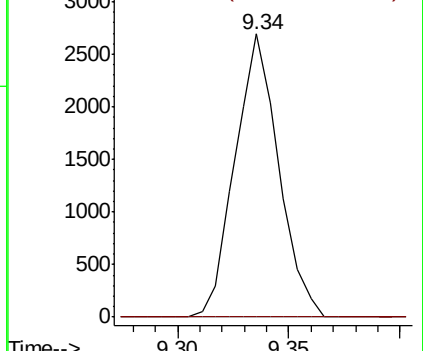
129 100

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: 47.83 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

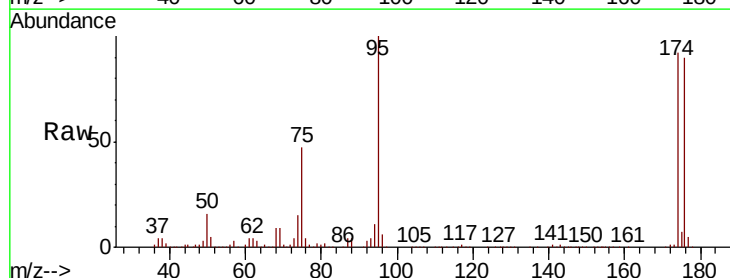
Tgt Ion: 95 Resp: 205538

Ion Ratio Lower Upper

95 100

174 93.0 0.0 185.2

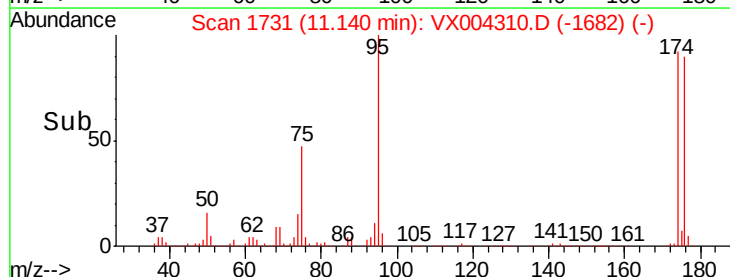
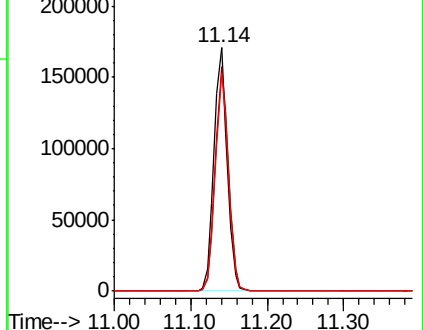
176 89.0 0.0 178.6

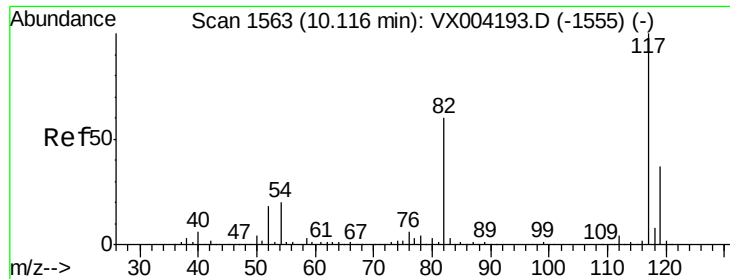


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

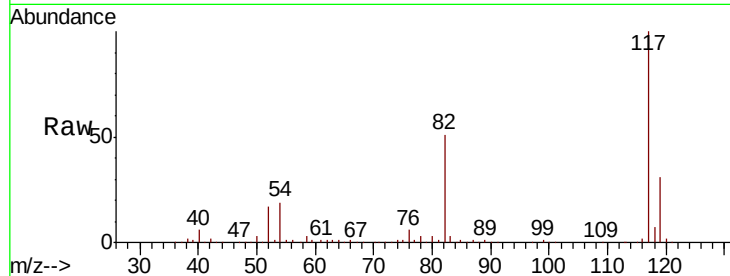




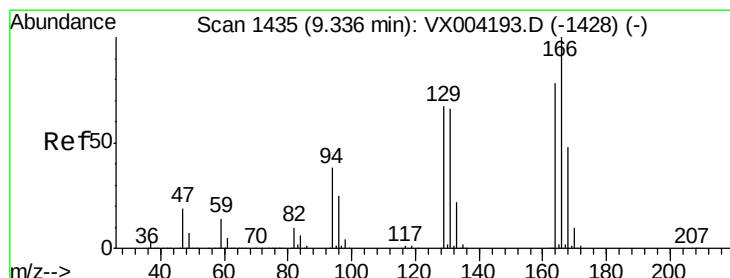
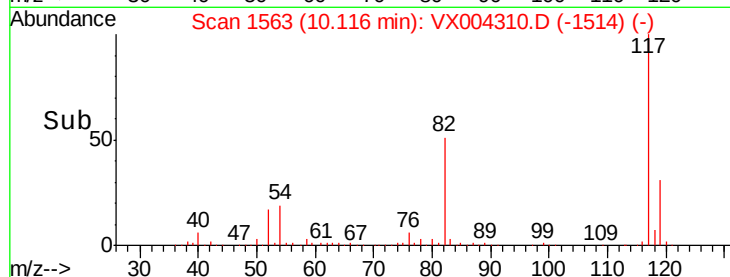
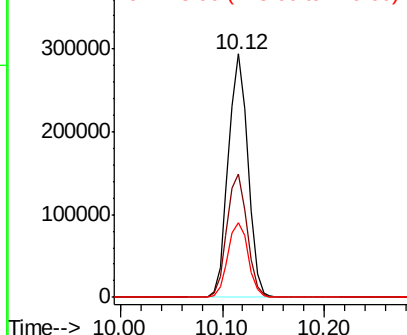
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004310.D
Acq: 29 Aug 2018 23:51

Instrument :
MSVOA_X
ClientSampleId :
CPA-SW-15-M12W4-082218

Tot Ion:117 Resp: 390365
Ion Ratio Lower Upper
117 100
82 50.7 47.8 71.6
119 30.9 29.3 43.9

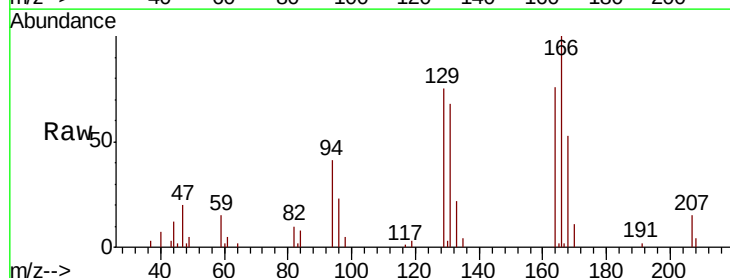


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

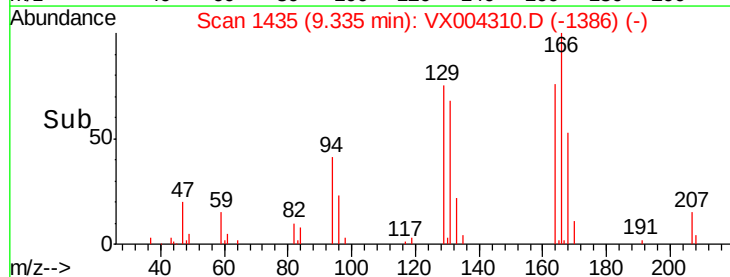
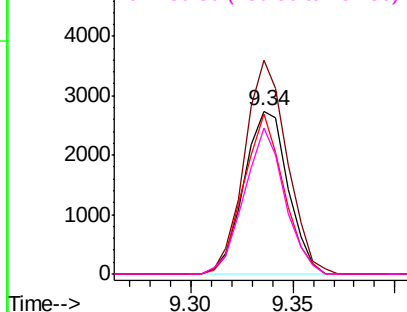


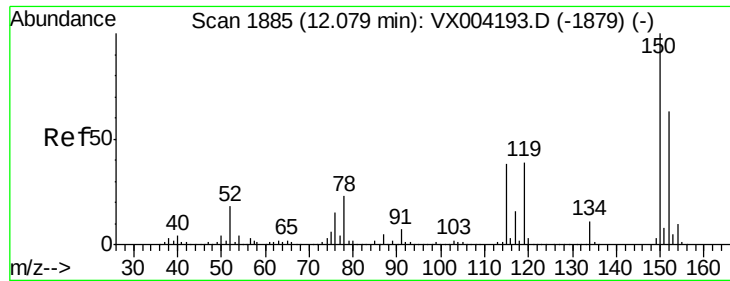
#64
Tetrachloroethene
Concen: 1.07 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004310.D
Acq: 29 Aug 2018 23:51

Tgt Ion:164 Resp: 4132
Ion Ratio Lower Upper
164 100
166 131.2 102.8 154.2
129 98.2 69.4 104.0
131 89.4 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: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-15-M12W4-082218

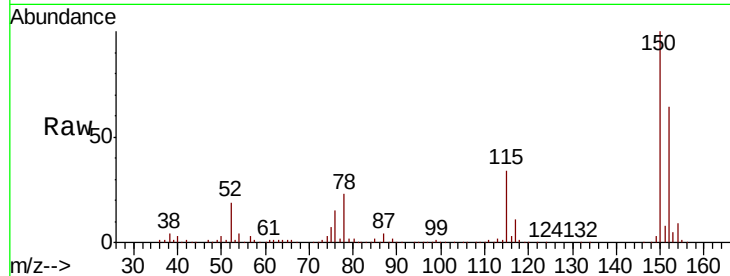
Tot Ion:152 Resp: 208569

Ion Ratio Lower Upper

152 100

115 53.5 39.0 117.0

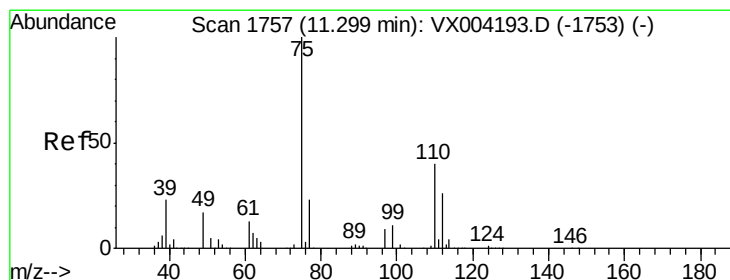
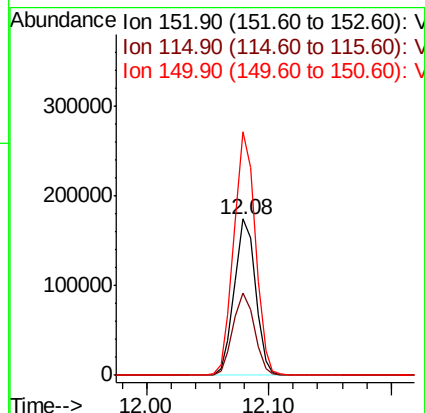
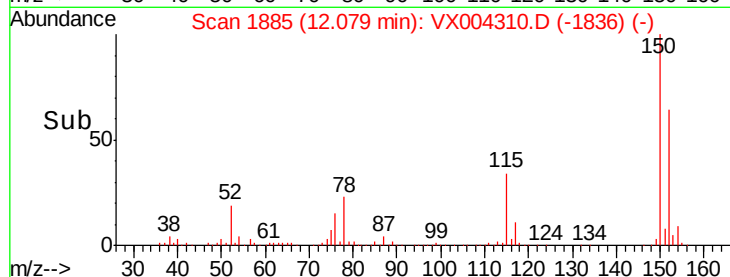
150 157.5 0.0 351.0



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: 23.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004310.D

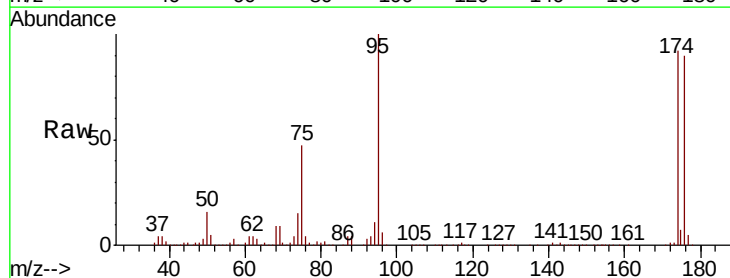
Acq: 29 Aug 2018 23:51

Tgt Ion: 75 Resp: 97915

Ion Ratio Lower Upper

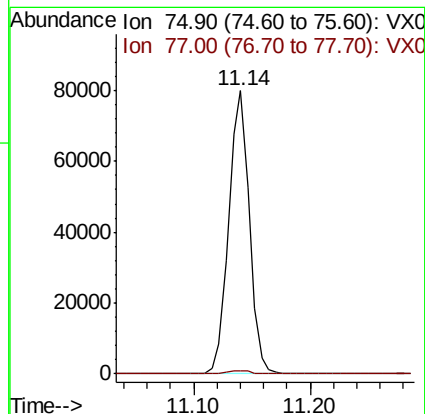
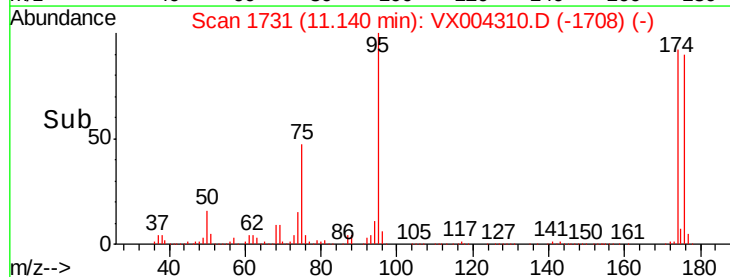
75 100

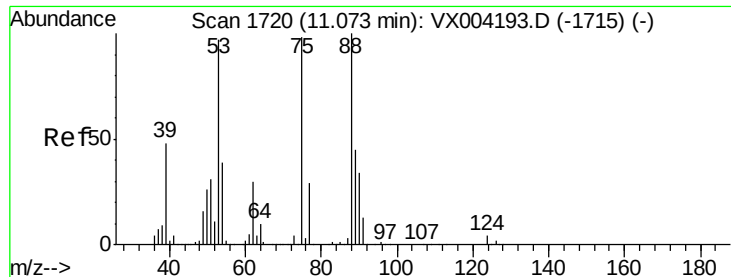
77 1.3 20.2 60.6#



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: 74.89 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004310.D

Acq: 29 Aug 2018 23:51

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-15-M12W4-082218

Tot Ion: 75 Resp: 97915

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

