

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\
 Data File : VX004309.D
 Acq On : 29 Aug 2018 23:24
 Operator : JC/MD
 Sample : J4681-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-SW-3-M12W4-082218

Quant Time: Aug 30 02:14:07 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	261192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	411105	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	371491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202755	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	186961	54.92	ug/l	0.00
Spiked Amount			Recovery	=	109.84%	
35) Dibromofluoromethane	5.50	113	163672	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	
50) Toluene-d8	8.72	98	591439	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	11.14	95	202472	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	

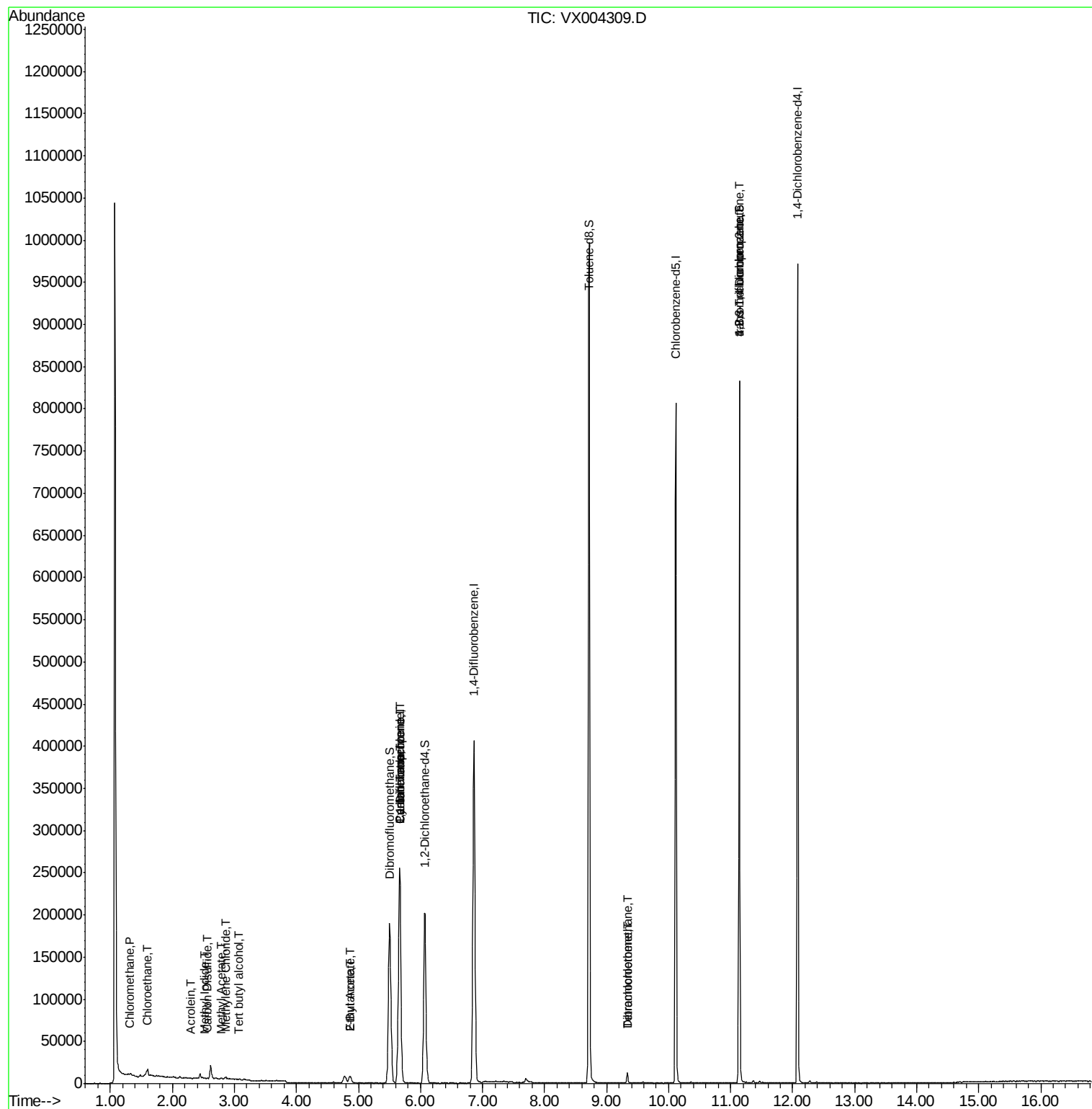
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	933	0.57	ug/l	90
5) Bromomethane	1.65	94	924	Below Cal		97
6) Chloroethane	1.59	64	4207	2.49	ug/l #	59
10) Methyl Iodide	2.51	142	781	4.48	ug/l #	88
11) Tert butyl alcohol	3.07	59	1098	1.51	ug/l #	88
13) Acrolein	2.29	56	123	0.70	ug/l #	48
16) Acetone	2.45	43	5240	Below Cal		100
17) Carbon Disulfide	2.57	76	898	0.91	ug/l #	76
18) Methyl Acetate	2.79	43	1361	0.27	ug/l	100
20) Methylene Chloride	2.85	84	1038	0.32	ug/l #	90
25) 2-Butanone	4.86	43	15161	3.84	ug/l #	47
31) Cyclohexane	5.67	56	4548	0.95	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17113	3.70	ug/l #	50
37) Ethyl Acetate	4.86	43	15161	3.34	ug/l	97
38) Carbon Tetrachloride	5.67	117	22708	5.22	ug/l #	16
60) Dibromochloromethane	9.34	129	2068	0.61	ug/l #	11
64) Tetrachloroethene	9.34	164	2599	0.71	ug/l #	79
76) 1,2,3-Trichloropropane	11.14	75	95027	23.04	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	95027	74.77	ug/l #	10
94) Hexachlorobutadiene	13.79	225	153	Below Cal	#	59

(#) = 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: VX004309.D

Acq: 29 Aug 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

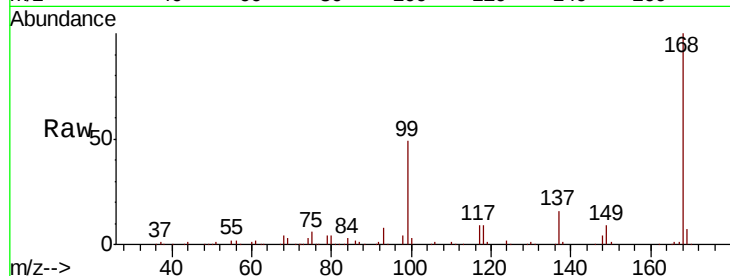
CPA-SW-3-M12W4-082218

Tot Ion:168 Resp: 261192

Ion Ratio Lower Upper

168 100

99 49.0 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

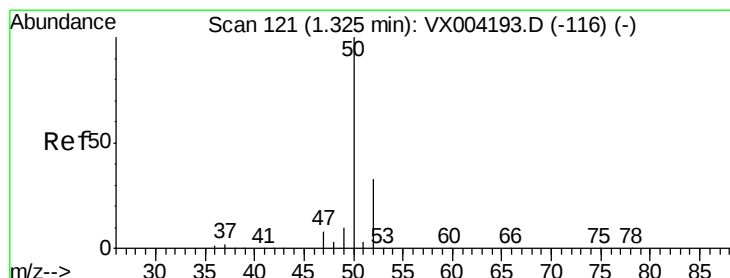
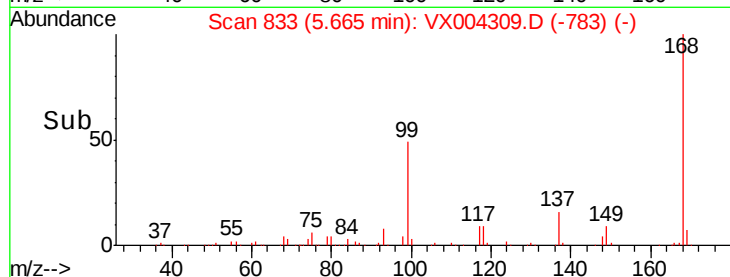
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.57 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004309.D

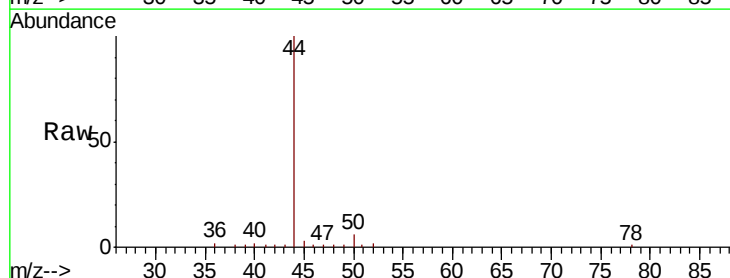
Acq: 29 Aug 2018 23:24

Tgt Ion: 50 Resp: 933

Ion Ratio Lower Upper

50 100

52 38.3 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

600

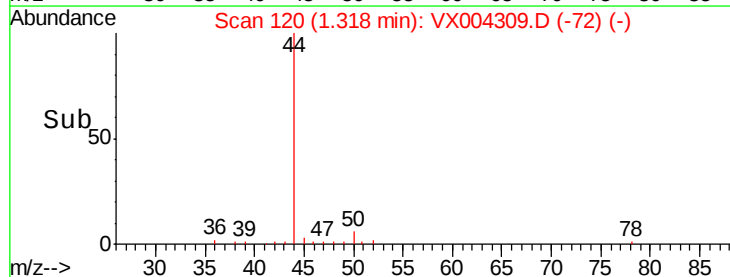
400

200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004309.D

Acq: 29 Aug 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

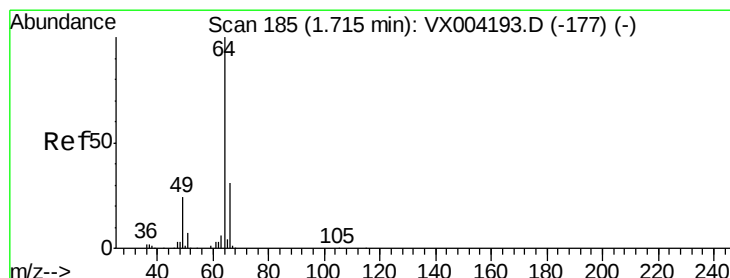
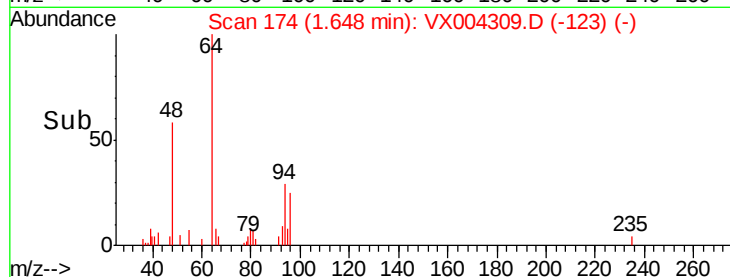
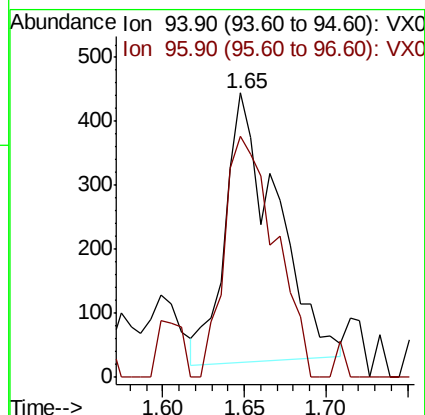
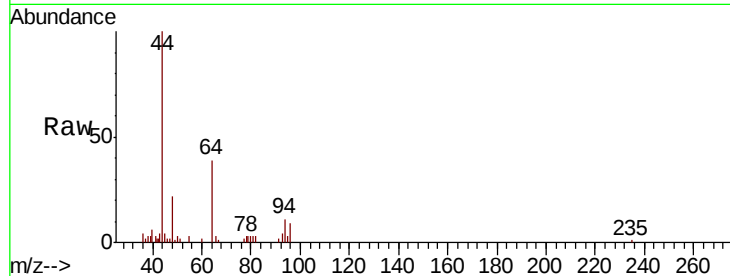
CPA-SW-3-M12W4-082218

Tot Ion: 94 Resp: 924

Ion Ratio Lower Upper

94 100

96 95.9 74.5 111.7



#6

Chloroethane

Concen: 2.49 ug/l

RT: 1.59 min Scan# 165

Delta R.T. -0.12 min

Lab File: VX004309.D

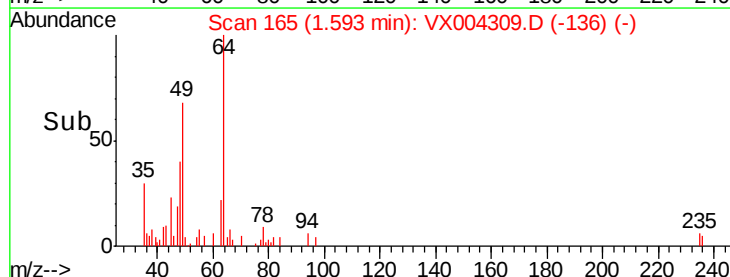
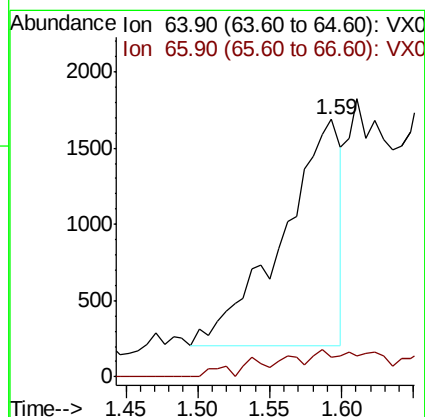
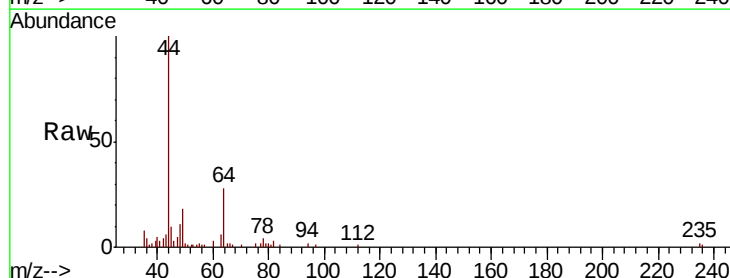
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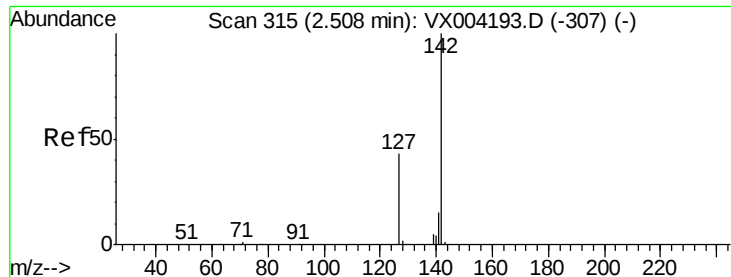
Tgt Ion: 64 Resp: 4207

Ion Ratio Lower Upper

64 100

66 8.5 24.6 36.8#

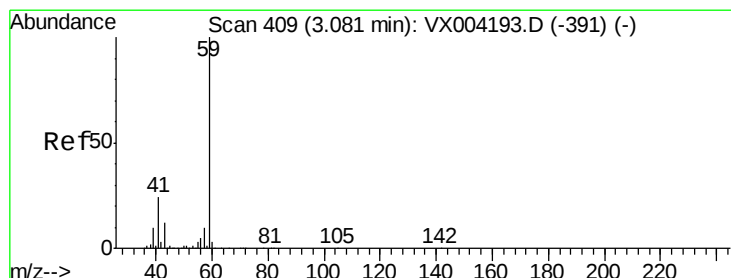
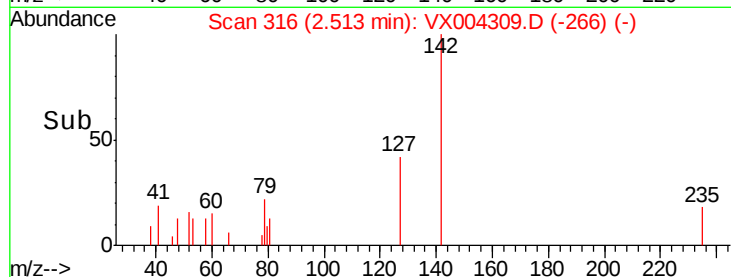
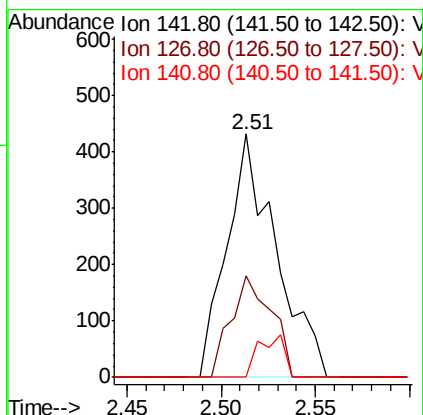
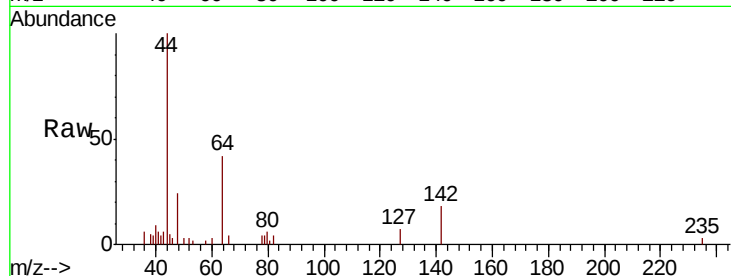




#10
Methvl Iodide
Concen: 4.48 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

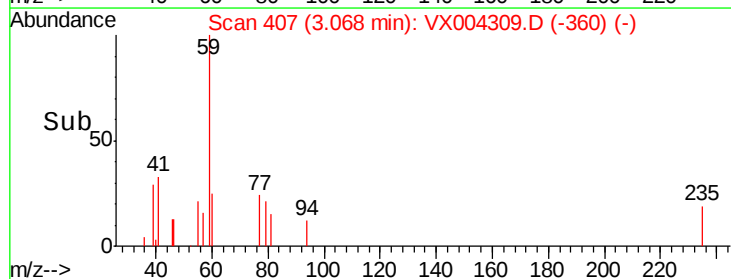
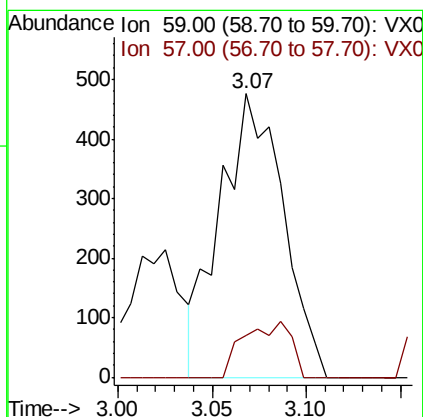
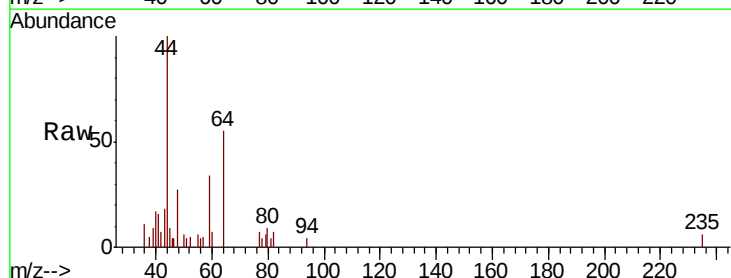
Instrument :
MSVOA_X
ClientSampleId :
CPA-SW-3-M12W4-082218

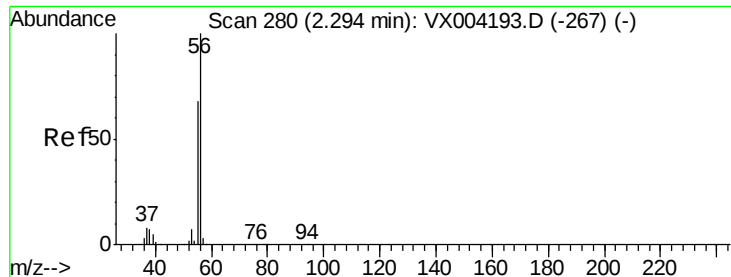
Tot Ion:142 Resp: 781
Ion Ratio Lower Upper
142 100
127 34.4 33.8 50.6
141 9.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.51 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

Tgt Ion: 59 Resp: 1098
Ion Ratio Lower Upper
59 100
57 14.8 8.2 12.4#

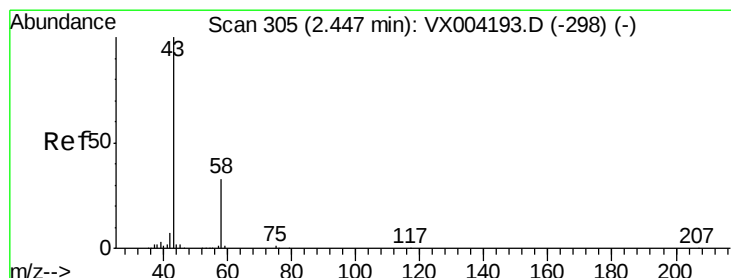
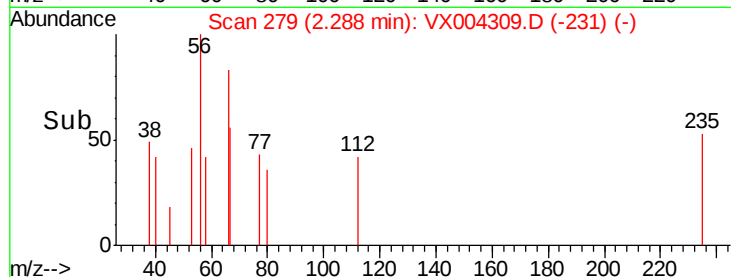
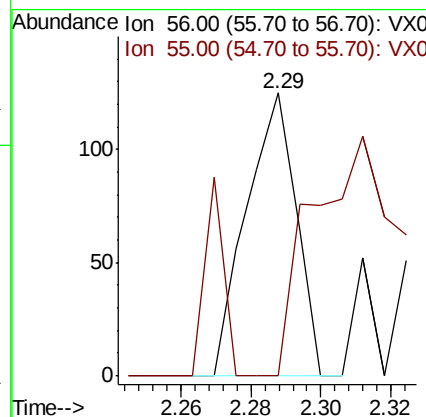
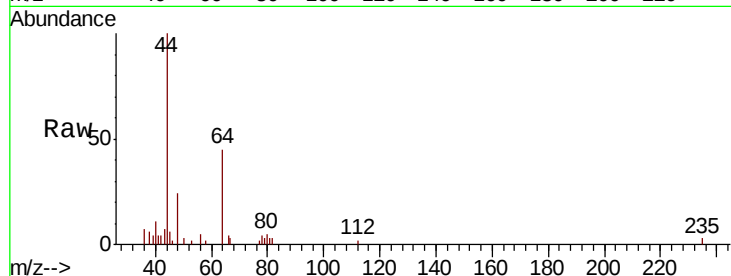




#13
Acrolein
Concen: 0.70 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

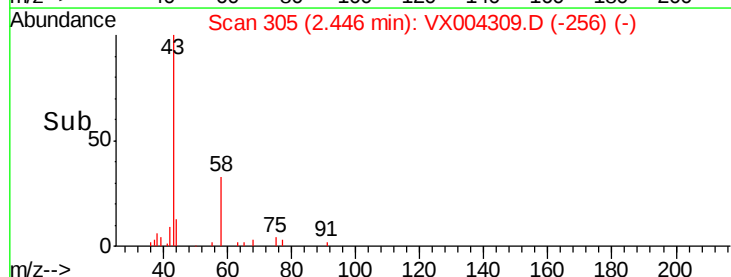
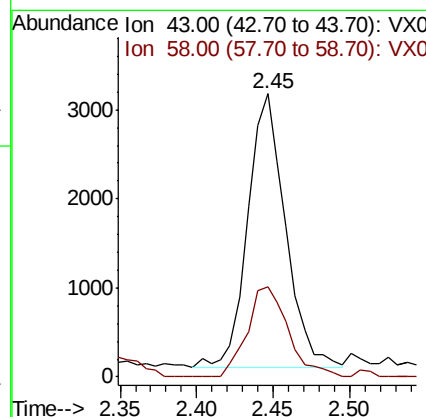
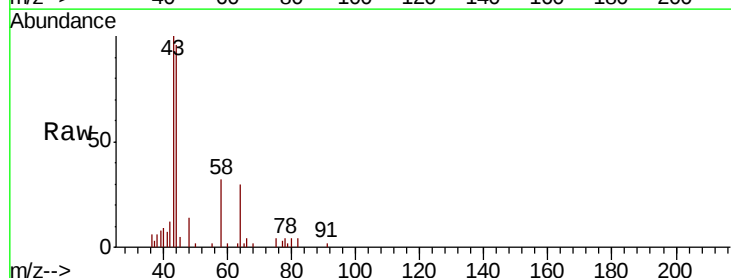
Instrument :
MSVOA_X
ClientSampleId :
CPA-SW-3-M12W4-082218

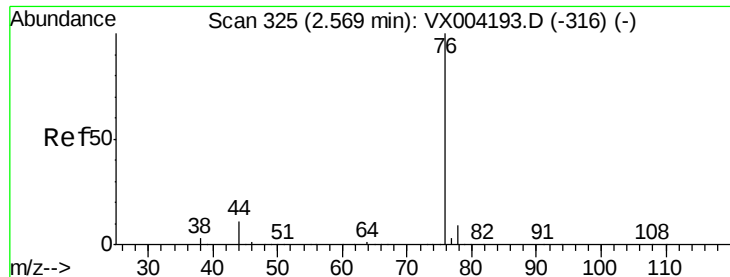
Tot Ion: 56 Resp: 123
Ion Ratio Lower Upper
56 100
55 26.0 54.7 82.1#



#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 305
Delta R.T. 0.00 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

Tgt Ion: 43 Resp: 5240
Ion Ratio Lower Upper
43 100
58 33.1 26.2 39.4

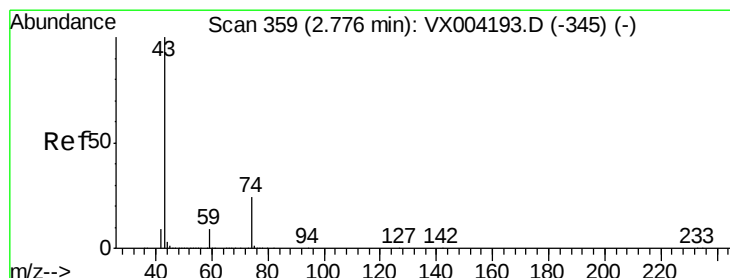
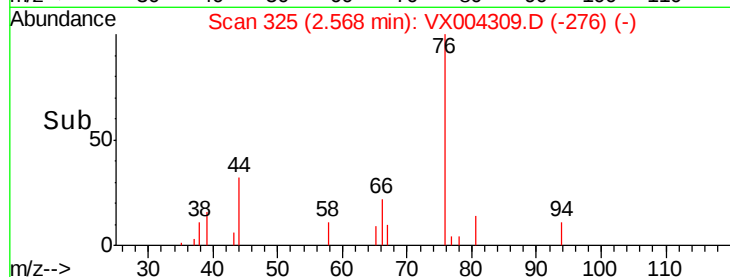
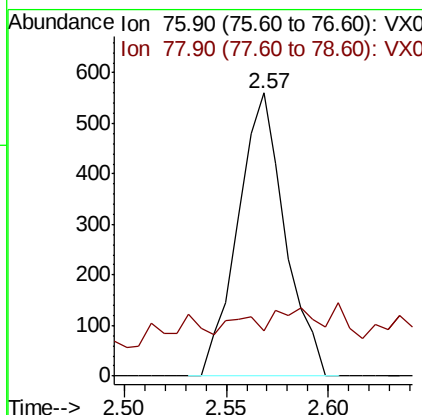
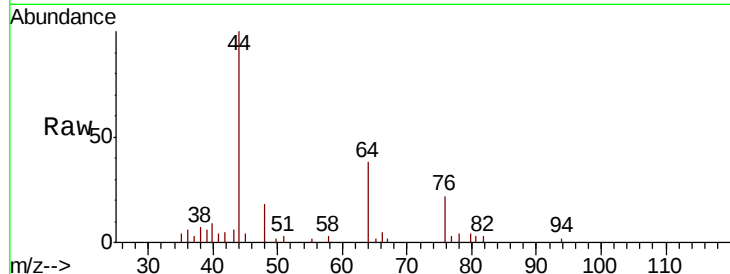




#17
Carbon Disulfide
Concen: 0.91 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

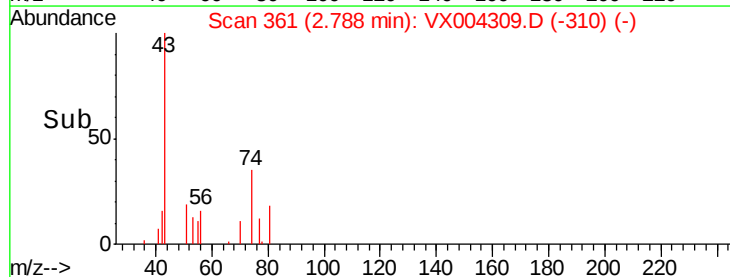
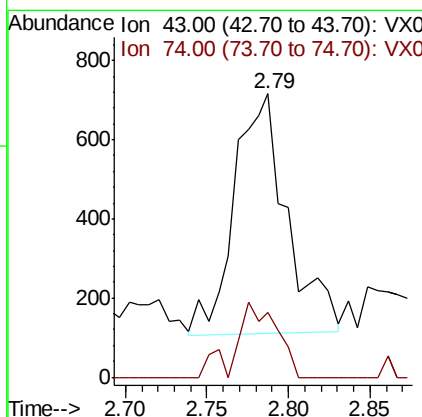
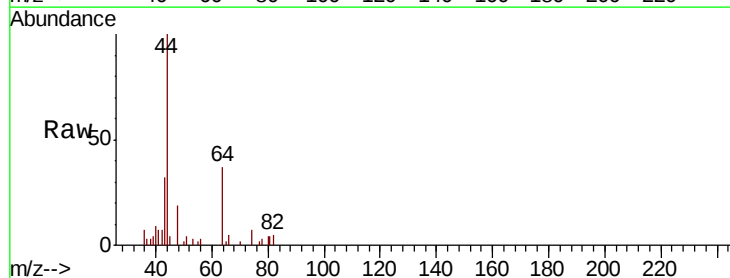
Instrument :
MSVOA_X
ClientSampleId :
CPA-SW-3-M12W4-082218

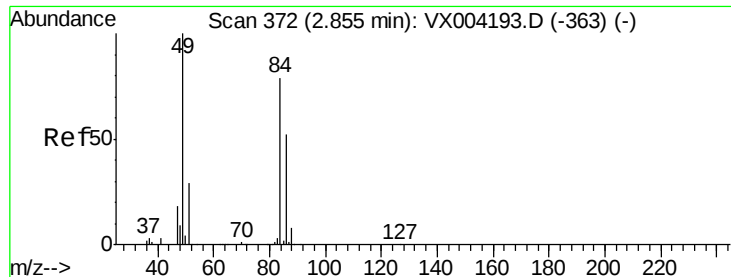
Tot Ion: 76 Resp: 898
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 0.27 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

Tgt Ion: 43 Resp: 1361
Ion Ratio Lower Upper
43 100
74 24.3 19.4 29.2

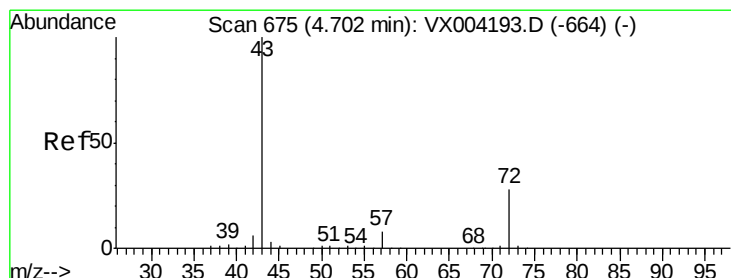
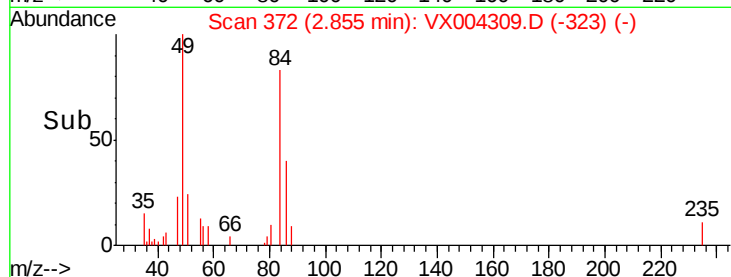
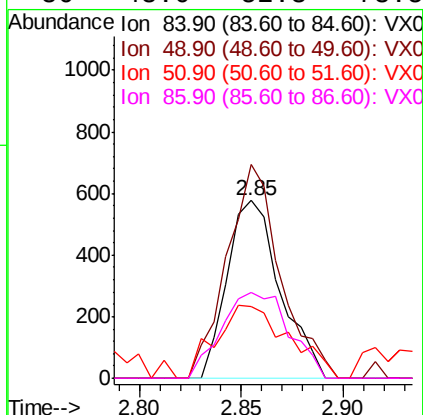
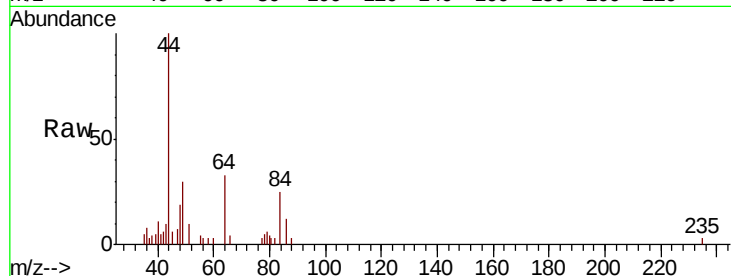




#20
Methvlene Chloride
Concen: 0.32 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

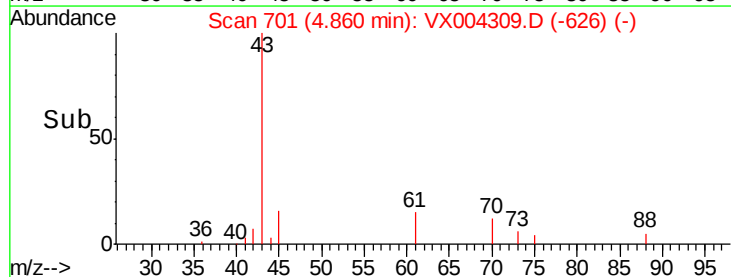
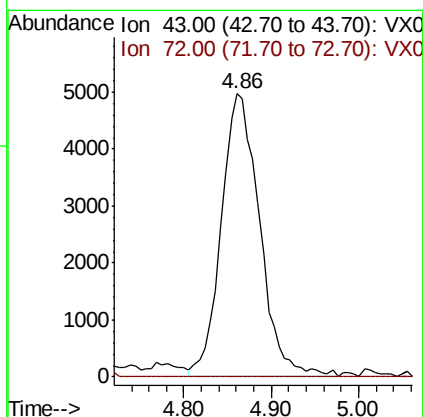
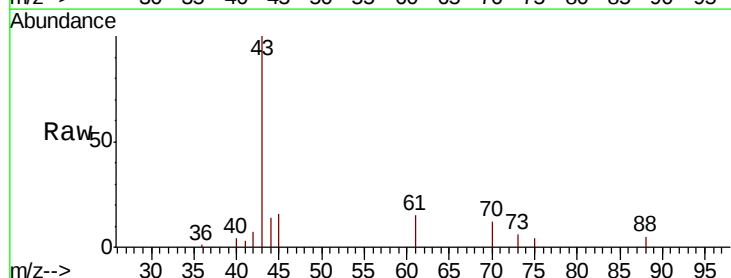
Instrument :
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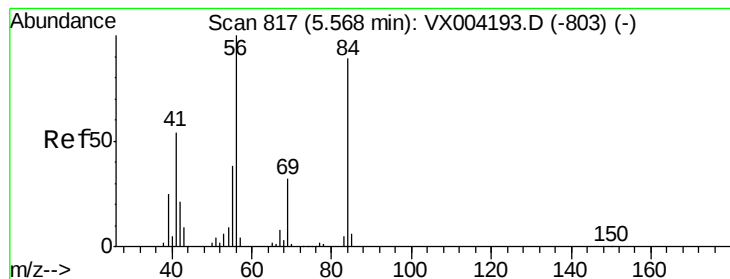
Tot Ion: 84 Resp: 1038
Ion Ratio Lower Upper
84 100
49 120.3 101.2 151.8
51 40.6 29.5 44.3
86 48.0 52.3 78.5#



#25
2-Butanone
Concen: 3.84 ug/l
RT: 4.86 min Scan# 701
Delta R.T. 0.16 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

Tgt Ion: 43 Resp: 15161
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#





#31

Cyclohexane

Concen: 0.95 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.10 min

Lab File: VX004309.D

Acq: 29 Aug 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-3-M12W4-082218

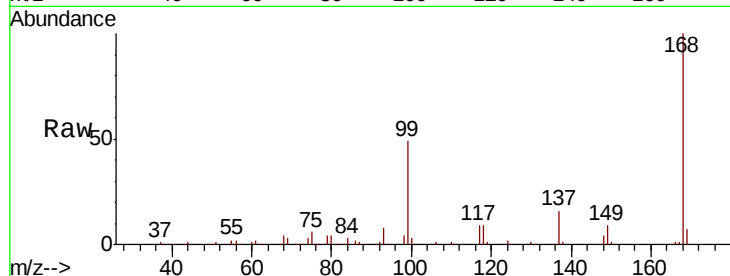
Tot Ion: 56 Resp: 4548

Ion Ratio Lower Upper

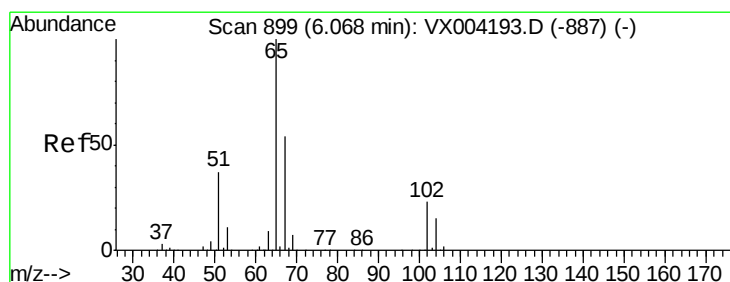
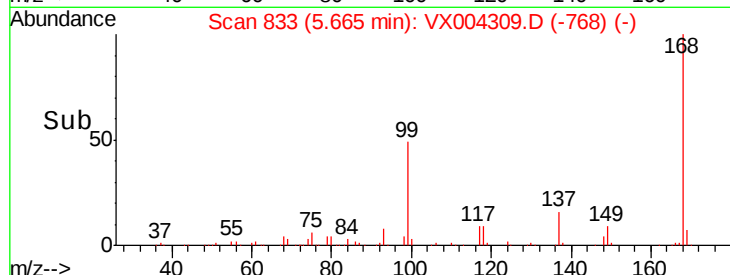
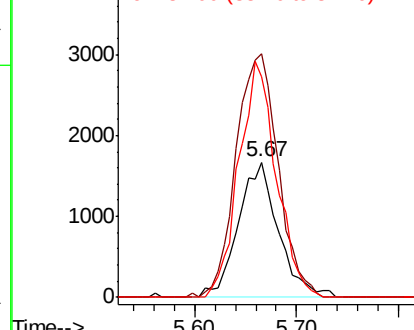
56 100

69 180.3 25.4 38.2#

84 163.1 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



#33

1,2-Dichloroethane-d4

Concen: 54.92 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004309.D

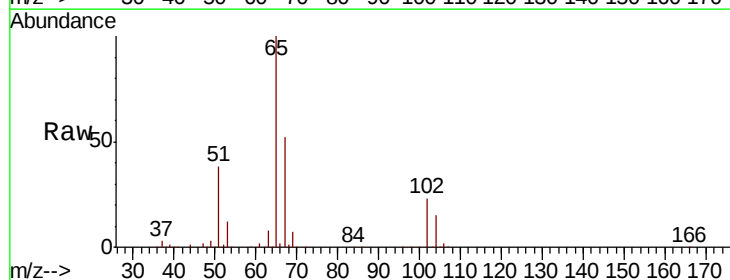
Acq: 29 Aug 2018 23:24

Tgt Ion: 65 Resp: 186961

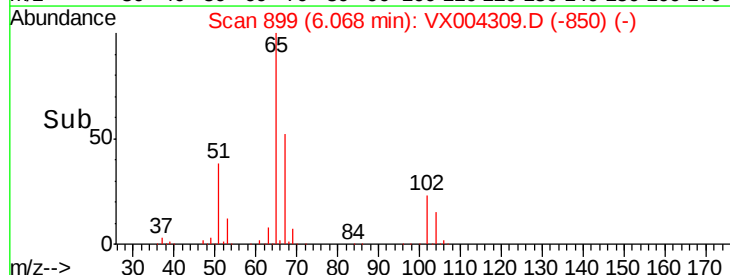
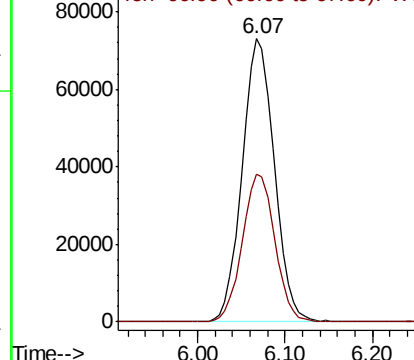
Ion Ratio Lower Upper

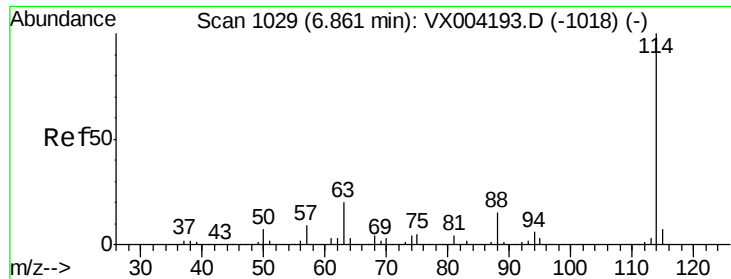
65 100

67 53.1 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

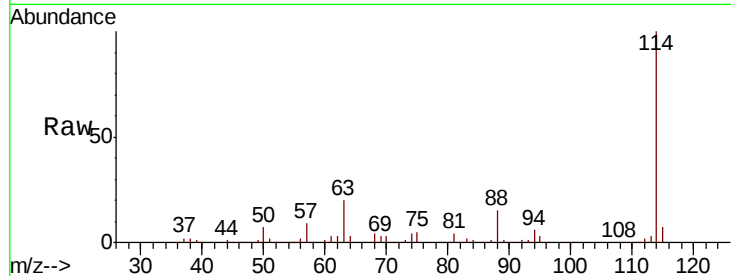




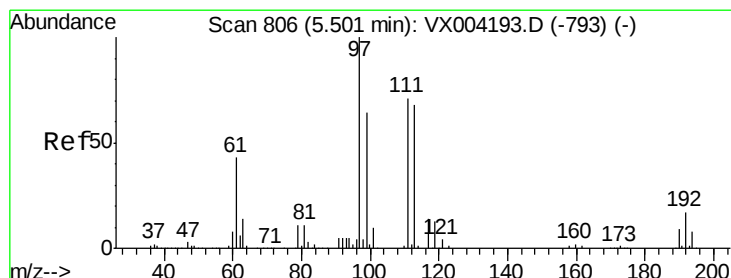
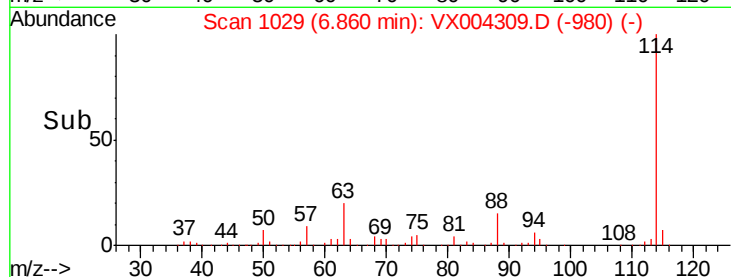
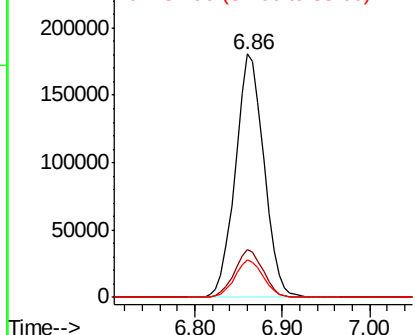
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004309.D
 Acq: 29 Aug 2018 23:24

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-SW-3-M12W4-082218

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.0
88	15.2	0.0	30.4

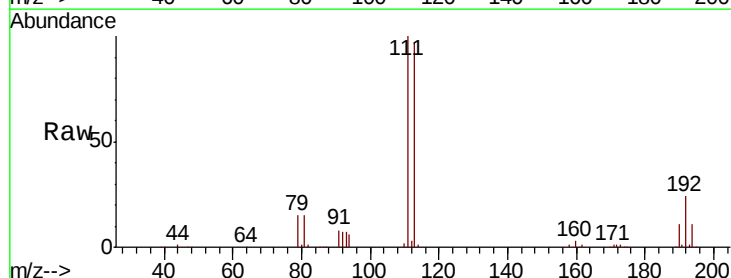


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

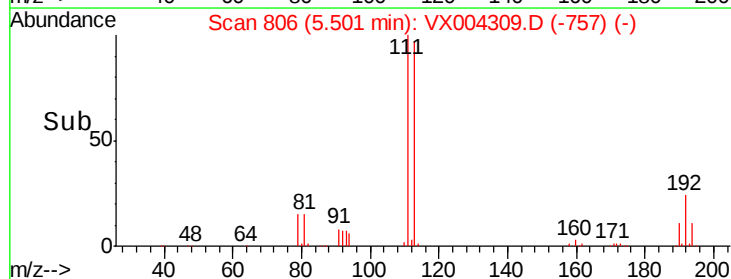
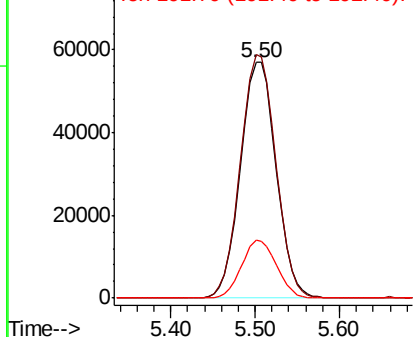


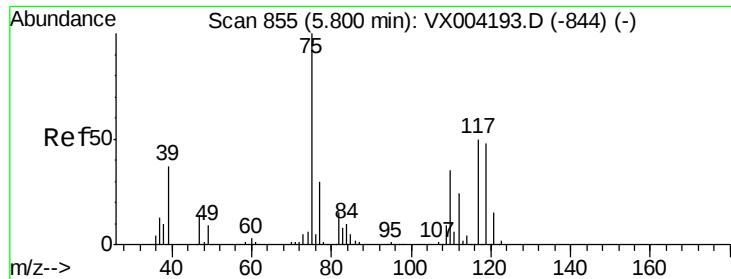
#35
 Dibromofluoromethane
 Concen: 53.52 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004309.D
 Acq: 29 Aug 2018 23:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	24.0	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: 3.70 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004309.D

Acq: 29 Aug 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-3-M12W4-082218

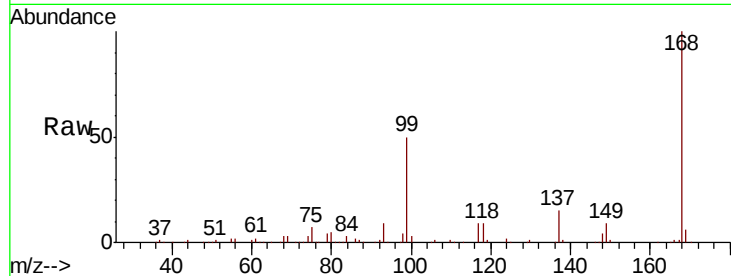
Tot Ion: 75 Resp: 17113

Ion Ratio Lower Upper

75 100

110 8.9 18.0 54.0#

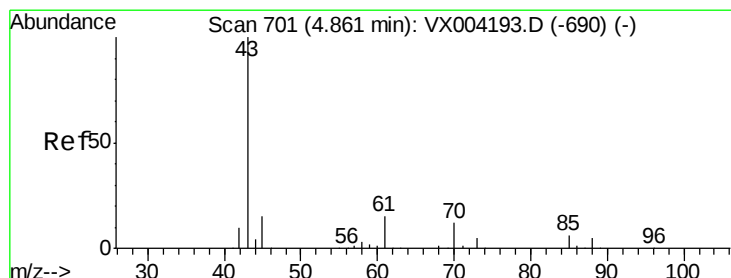
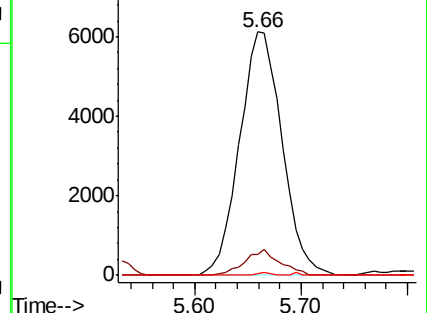
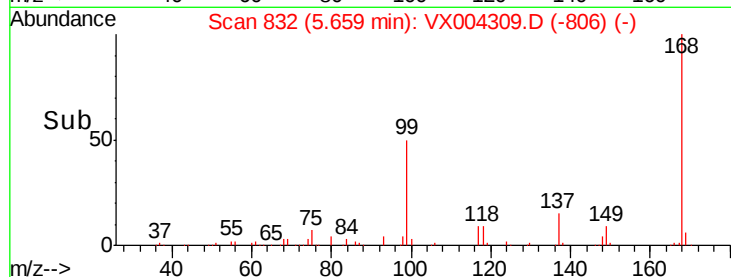
77 0.4 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 3.34 ug/l

RT: 4.86 min Scan# 701

Delta R.T. -0.00 min

Lab File: VX004309.D

Acq: 29 Aug 2018 23:24

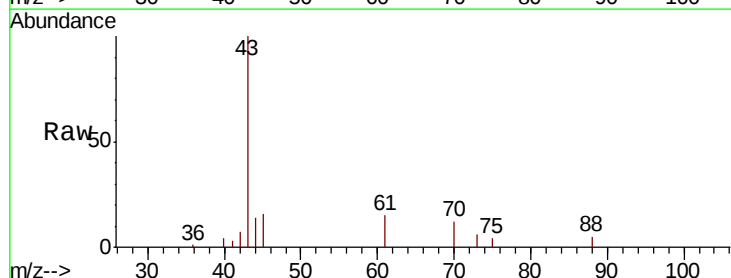
Tgt Ion: 43 Resp: 15161

Ion Ratio Lower Upper

43 100

61 15.8 11.5 17.3

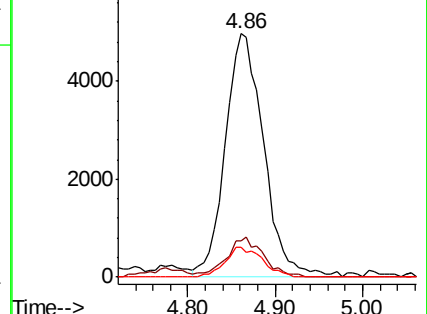
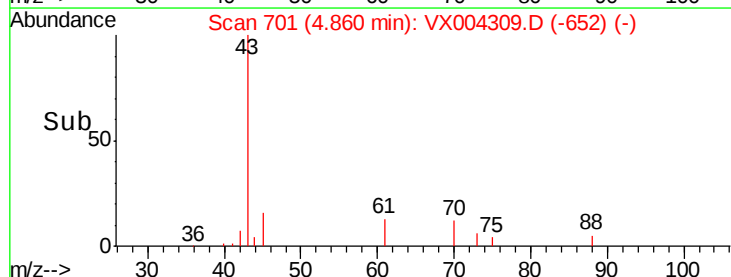
70 12.0 9.0 13.6

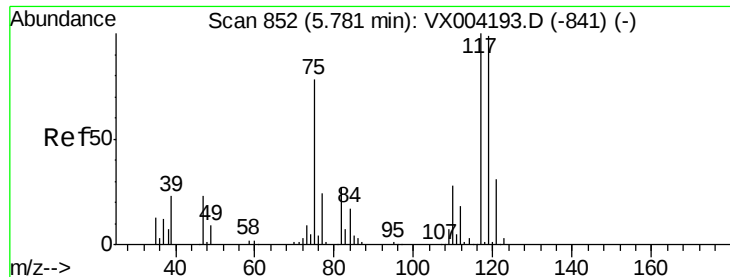


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.22 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004309.D

Acq: 29 Aug 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-3-M12W4-082218

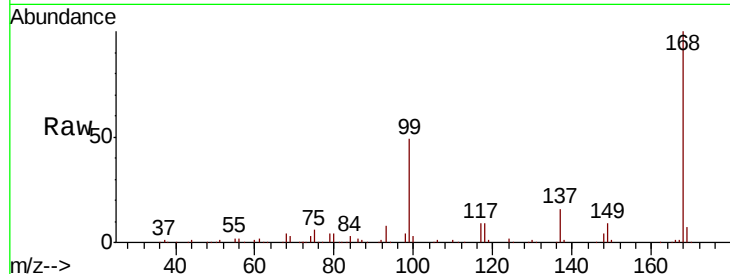
Tot Ion:117 Resp: 22708

Ion Ratio Lower Upper

117 100

119 6.9 78.8 118.2#

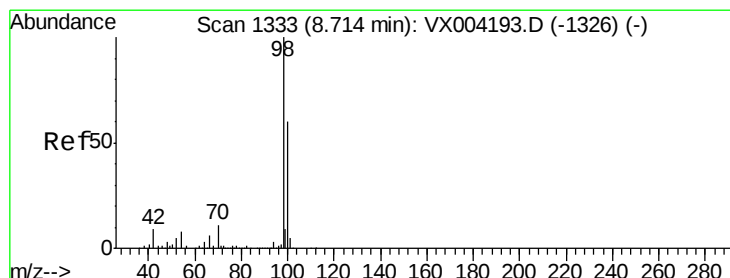
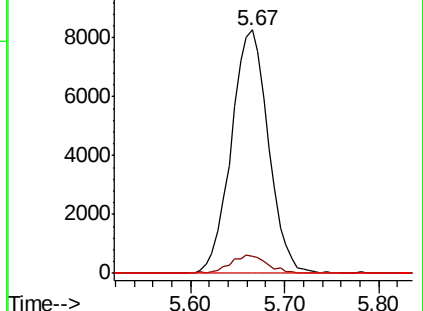
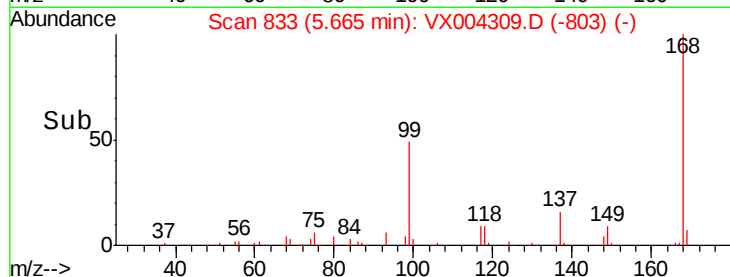
121 0.0 24.9 37.3#



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: 51.23 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.01 min

Lab File: VX004309.D

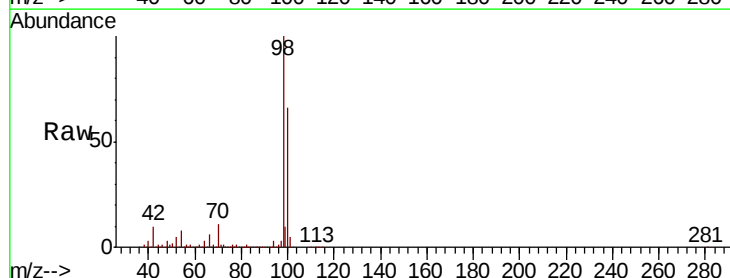
Acq: 29 Aug 2018 23:24

Tgt Ion: 98 Resp: 591439

Ion Ratio Lower Upper

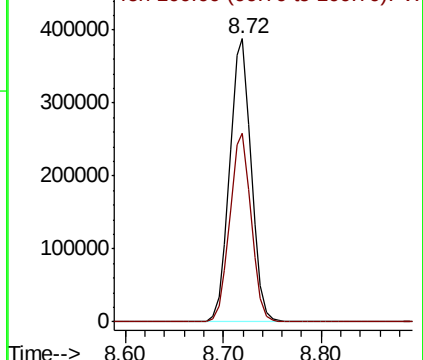
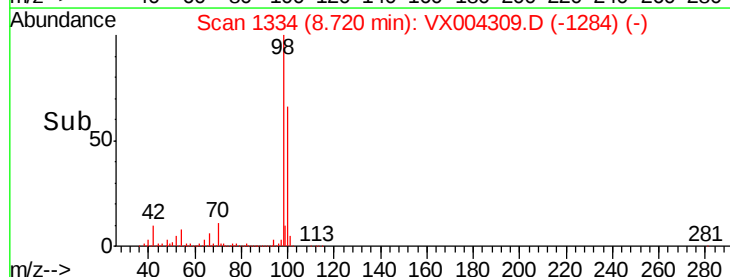
98 100

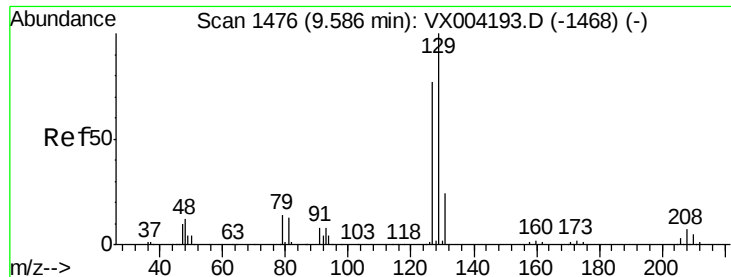
100 66.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.61 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX004309.D

Acq: 29 Aug 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

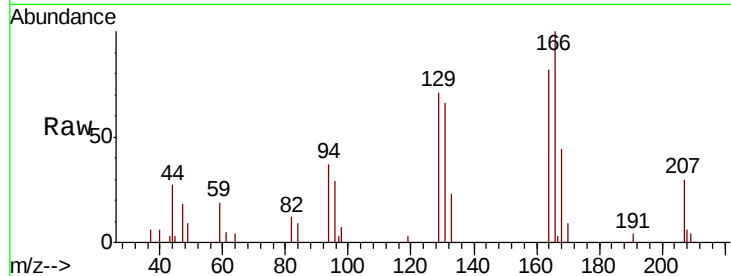
CPA-SW-3-M12W4-082218

Tot Ion:129 Resp: 2068

Ion Ratio Lower Upper

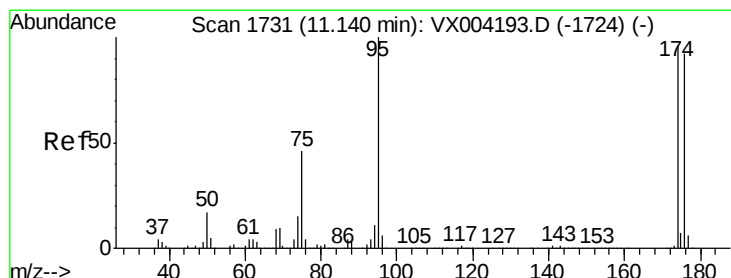
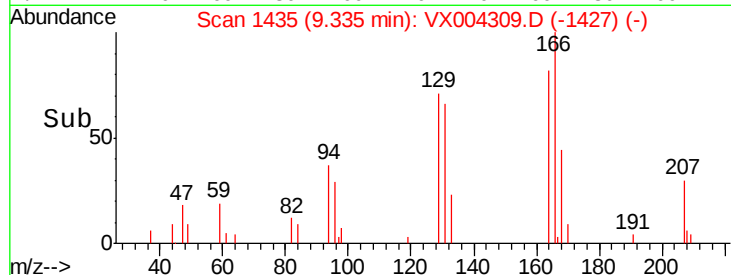
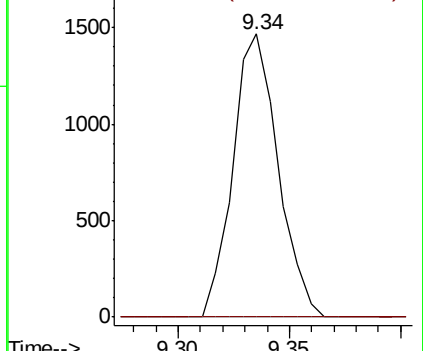
129 100

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: 47.01 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004309.D

Acq: 29 Aug 2018 23:24

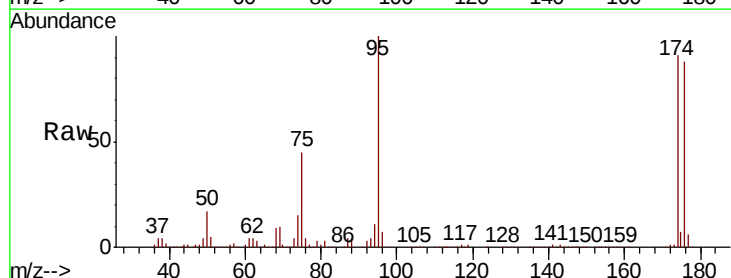
Tgt Ion: 95 Resp: 202472

Ion Ratio Lower Upper

95 100

174 94.2 0.0 185.2

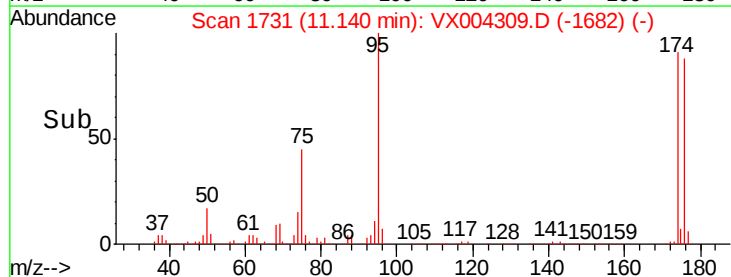
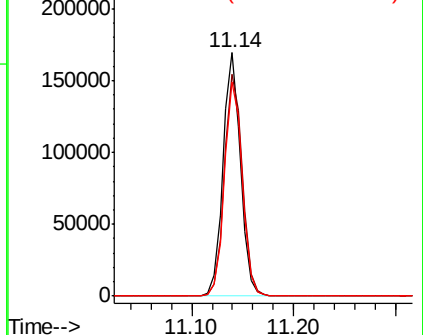
176 89.7 0.0 178.6

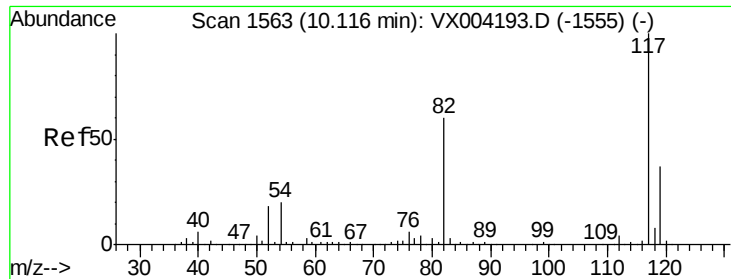


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

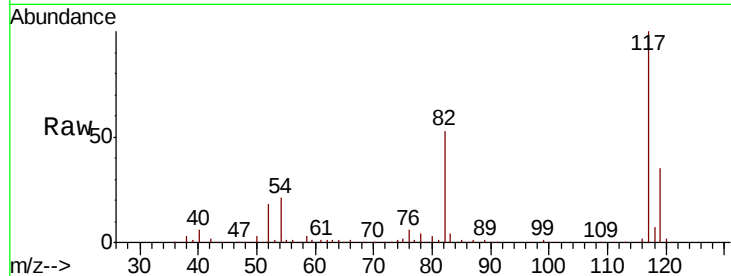




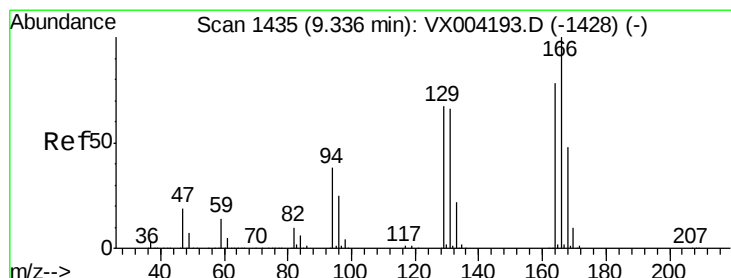
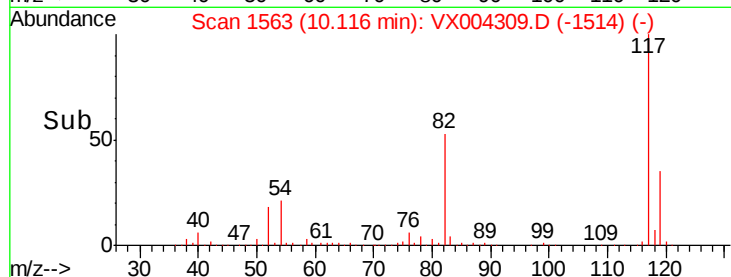
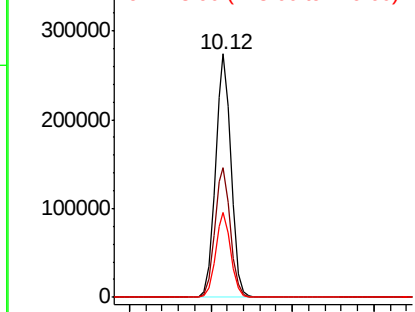
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

Instrument :
MSVOA_X
ClientSampleId :
CPA-SW-3-M12W4-082218

Tot Ion:117 Resp: 371491
Ion Ratio Lower Upper
117 100
82 53.4 47.8 71.6
119 34.9 29.3 43.9

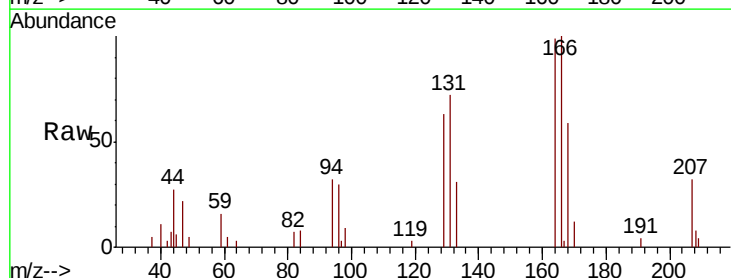


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

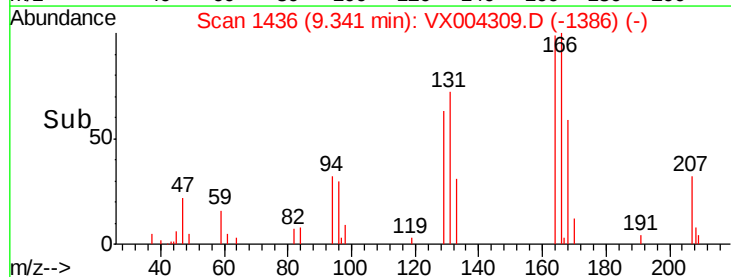
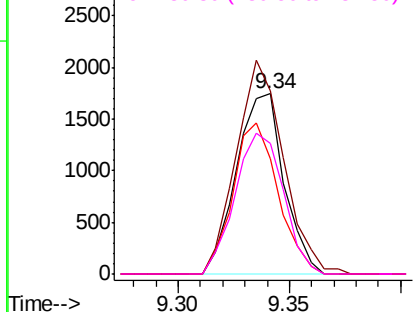


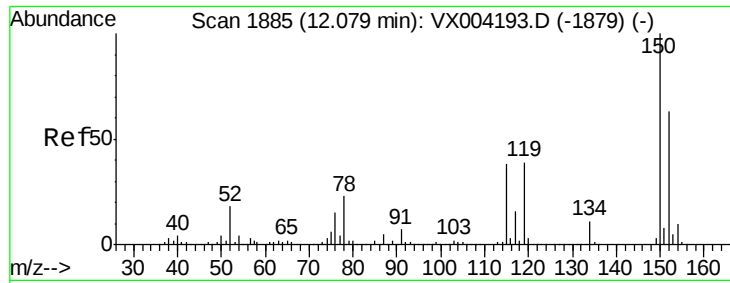
#64
Tetrachloroethene
Concen: 0.71 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.01 min
Lab File: VX004309.D
Acq: 29 Aug 2018 23:24

Tgt Ion:164 Resp: 2599
Ion Ratio Lower Upper
164 100
166 101.4 102.8 154.2#
129 64.2 69.4 104.0#
131 72.7 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: VX004309.D

Acq: 29 Aug 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-3-M12W4-082218

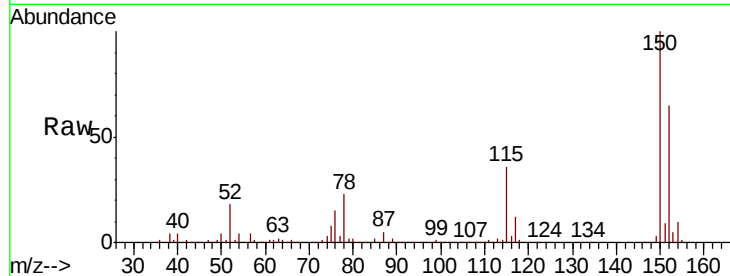
Tot Ion:152 Resp: 202755

Ion Ratio Lower Upper

152 100

115 56.0 39.0 117.0

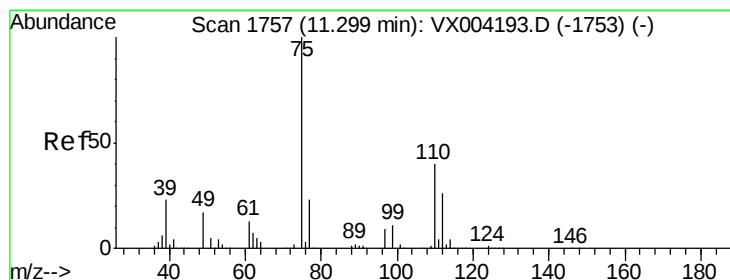
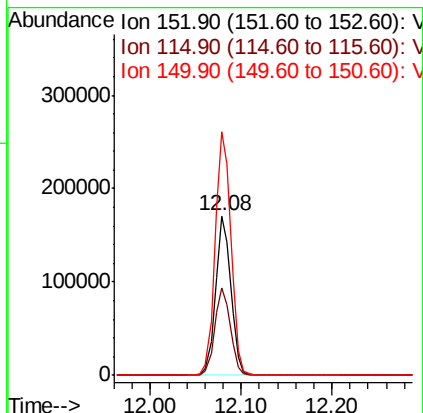
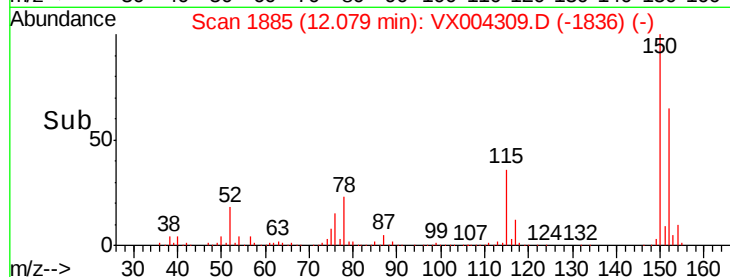
150 158.3 0.0 351.0



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: 23.04 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004309.D

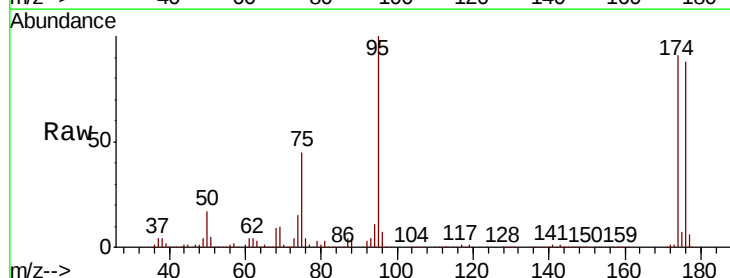
Acq: 29 Aug 2018 23:24

Tgt Ion: 75 Resp: 95027

Ion Ratio Lower Upper

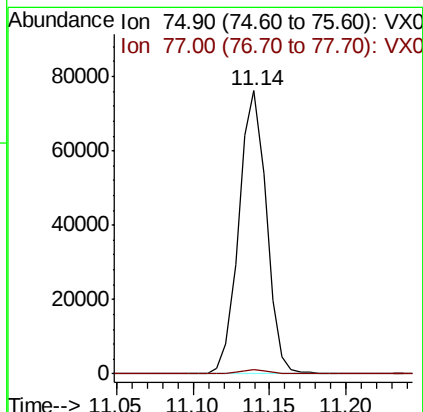
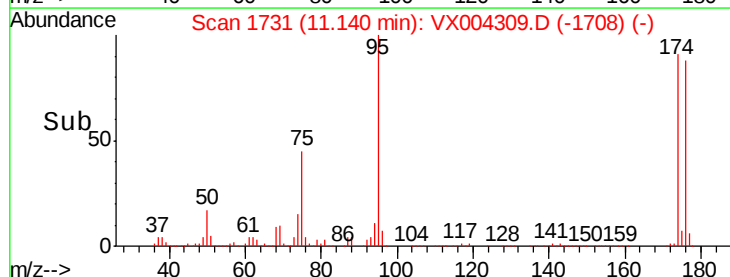
75 100

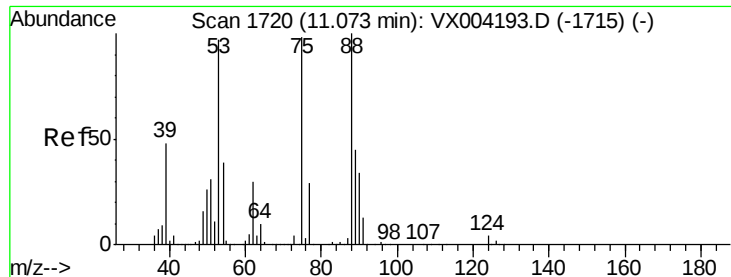
77 1.5 20.2 60.6#



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: 74.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004309.D

Acq: 29 Aug 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

CPA-SW-3-M12W4-082218

Tot Ion: 75 Resp: 95027

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

