

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\
 Data File : VX004295.D
 Acq On : 29 Aug 2018 16:17
 Operator : JC/MD
 Sample : J4681-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW04D-M12W4-082318

Quant Time: Aug 30 02:09:25 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	261477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	410303	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	397221	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	206762	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	186149	54.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.24%	
35) Dibromofluoromethane	5.51	113	163326	53.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.02%	
50) Toluene-d8	8.72	98	582135	50.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.06%	
62) 4-Bromofluorobenzene	11.14	95	199263	46.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.70%	

Target Compounds

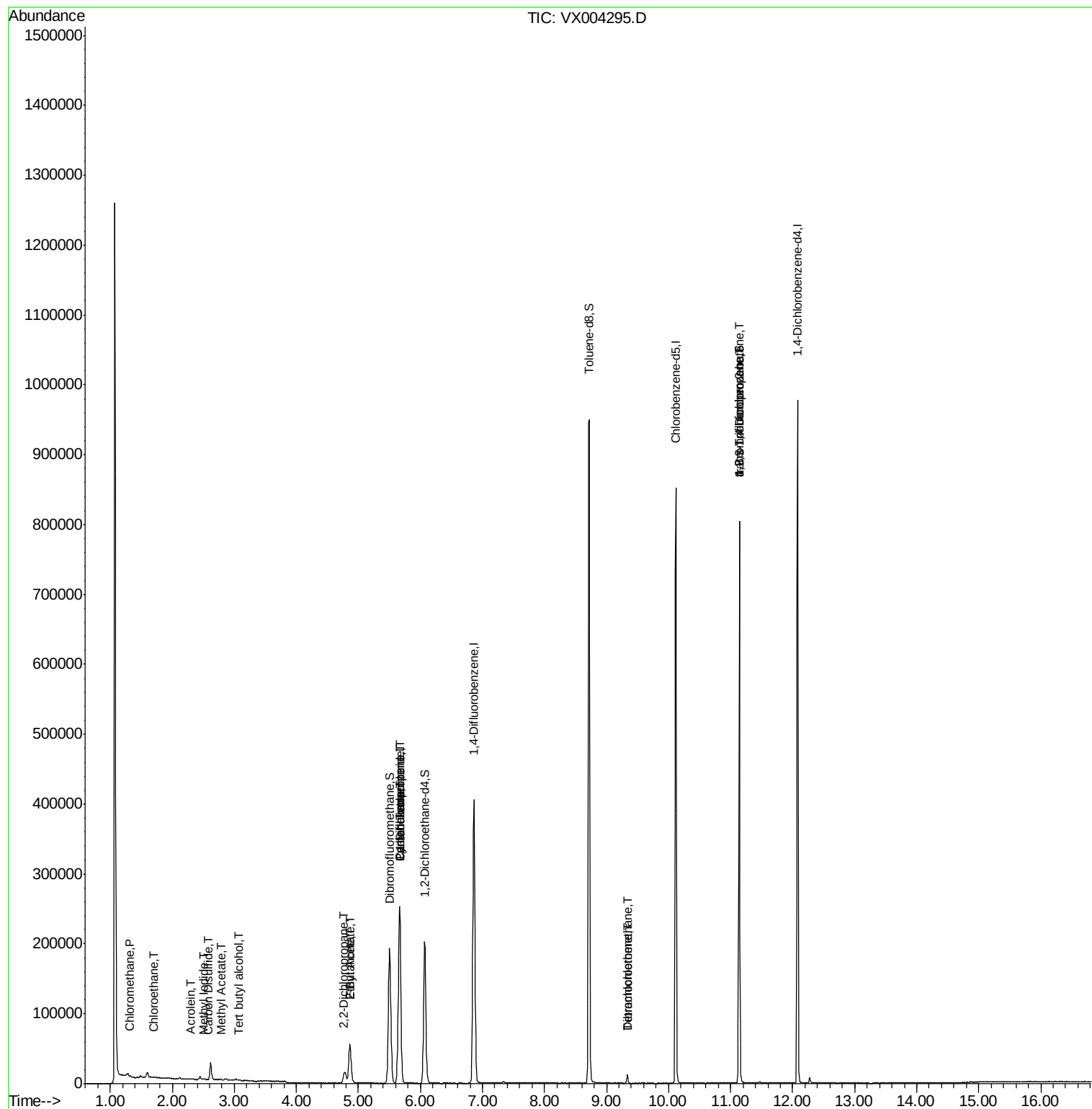
						Qvalue
3) Chloromethane	1.32	50	1343	0.69	ug/l	# 83
5) Bromomethane	1.65	94	1028	Below	Cal	86
6) Chloroethane	1.70	64	297	1.08	ug/l	# 44
10) Methyl Iodide	2.51	142	467	4.39	ug/l	# 81
11) Tert butyl alcohol	3.07	59	1212	1.67	ug/l	# 87
13) Acrolein	2.29	56	71	0.41	ug/l	# 16
16) Acetone	2.45	43	4234	Below	Cal	98
17) Carbon Disulfide	2.57	76	460	0.86	ug/l	# 85
18) Methyl Acetate	2.78	43	1118	0.22	ug/l	99
25) 2-Butanone	4.86	43	93738	38.64	ug/l	# 47
26) 2,2-Dichloropropane	4.76	77	920	0.21	ug/l	# 52
31) Cyclohexane	5.66	56	4430	0.93	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	17493	3.79	ug/l	# 50
37) Ethyl Acetate	4.86	43	94284	20.78	ug/l	98
38) Carbon Tetrachloride	5.67	117	22674	5.23	ug/l	# 15
60) Dibromochloromethane	9.34	129	2207	0.65	ug/l	# 11
64) Tetrachloroethene	9.34	164	2552	0.65	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	94758	22.53	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	94758	73.11	ug/l	# 10
94) Hexachlorobutadiene	13.79	225	43	Below	Cal	# 20

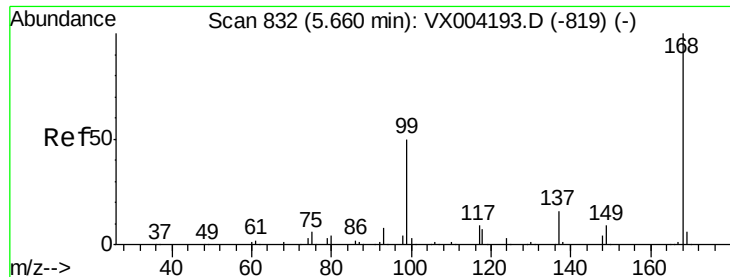
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

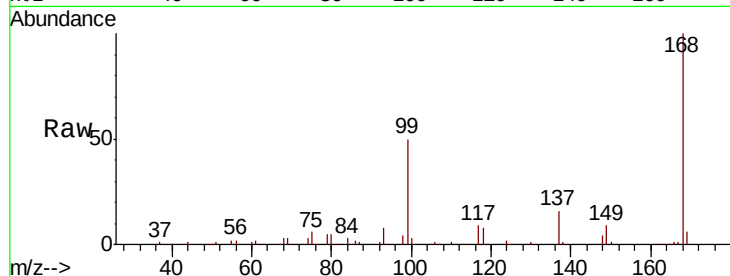
CPA-CPMW04D-M12W4-082318

Tot Ion:168 Resp: 261477

Ion Ratio Lower Upper

168 100

99 49.8 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

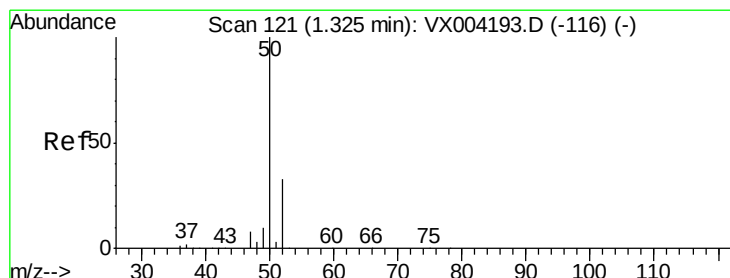
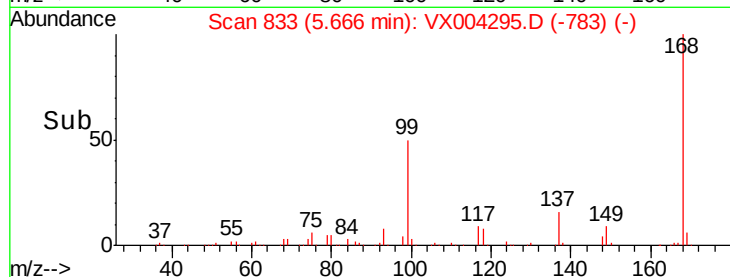
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.69 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004295.D

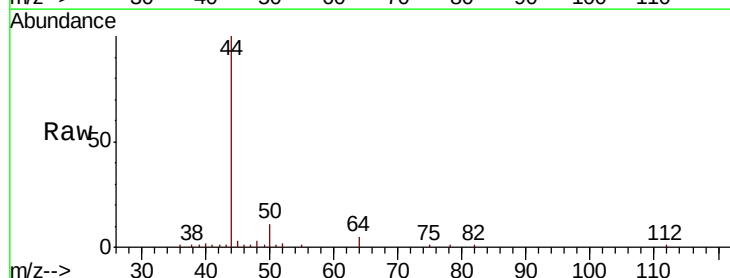
Acq: 29 Aug 2018 16:17

Tgt Ion: 50 Resp: 1343

Ion Ratio Lower Upper

50 100

52 22.9 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

1000

800

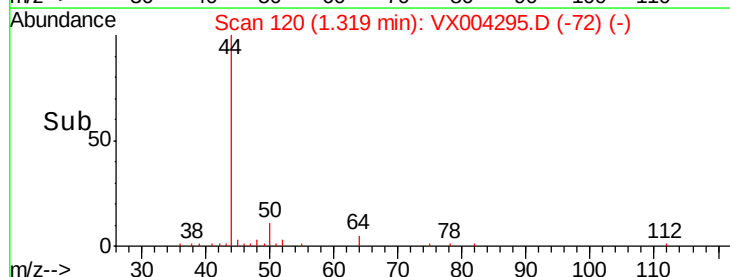
600

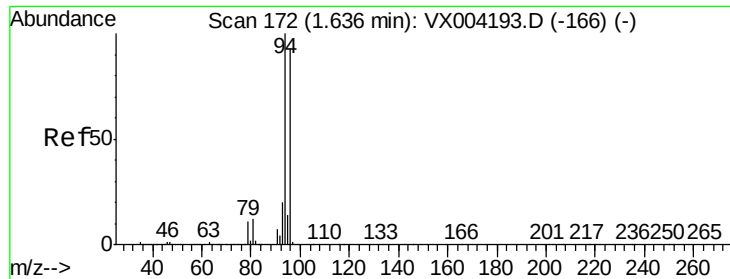
400

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: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

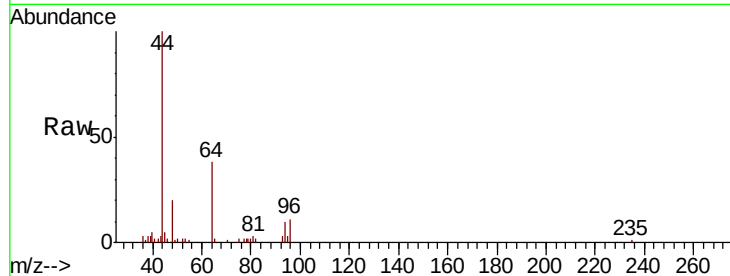
CPA-CPMW04D-M12W4-082318

Tot Ion: 94 Resp: 1028

Ion Ratio Lower Upper

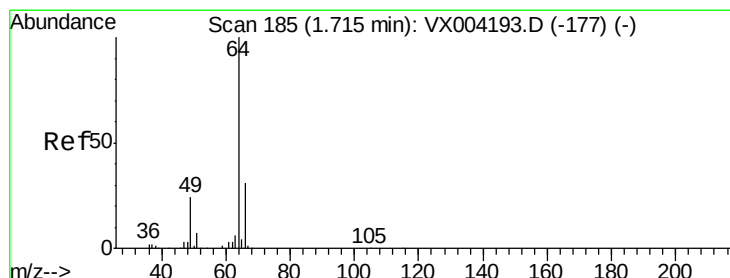
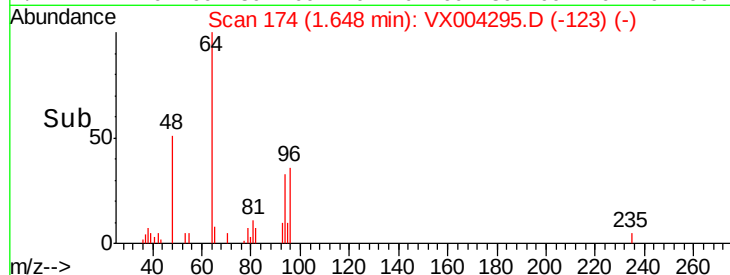
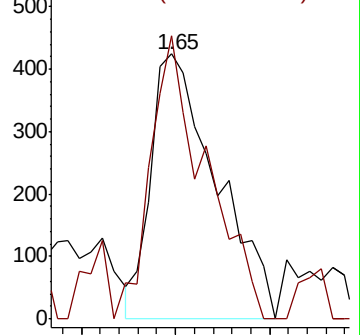
94 100

96 106.6 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: 1.08 ug/l

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX004295.D

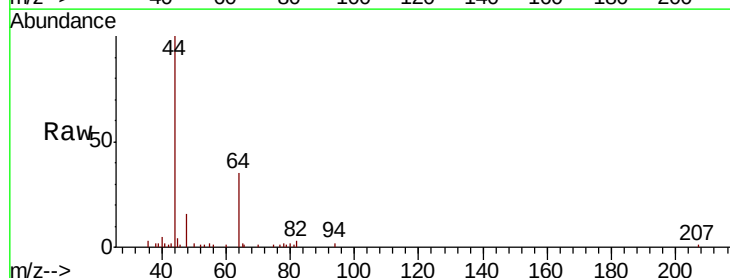
Acq: 29 Aug 2018 16:17

Tgt Ion: 64 Resp: 297

Ion Ratio Lower Upper

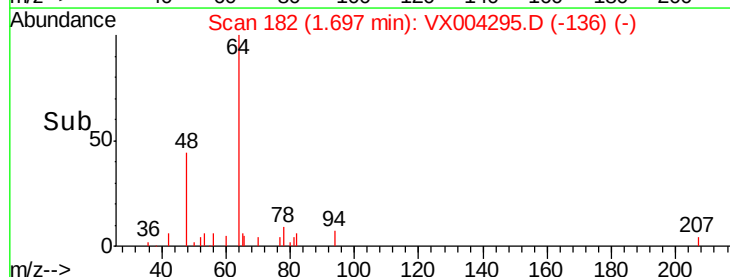
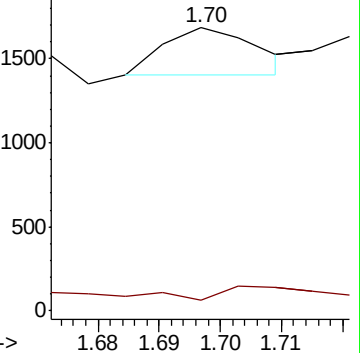
64 100

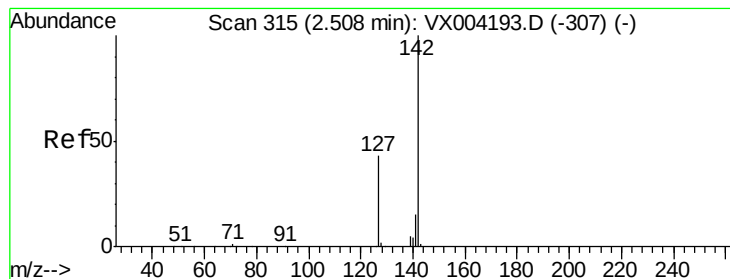
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 4.39 ug/l

RT: 2.51 min Scan# 315

Delta R.T. 0.00 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW04D-M12W4-082318

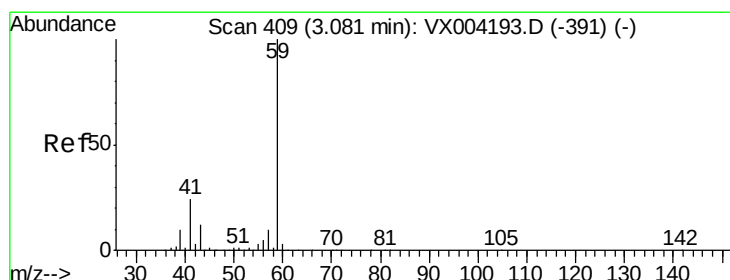
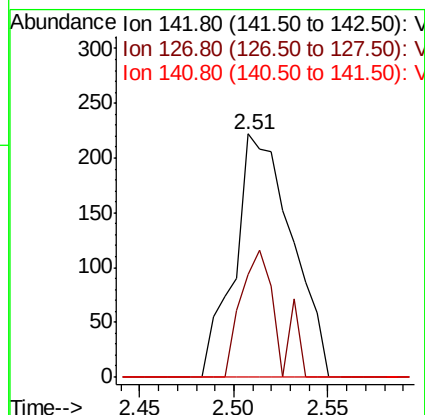
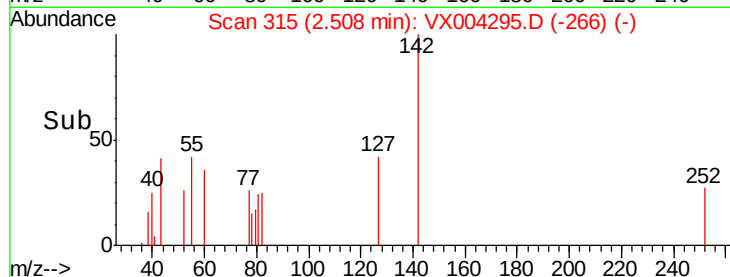
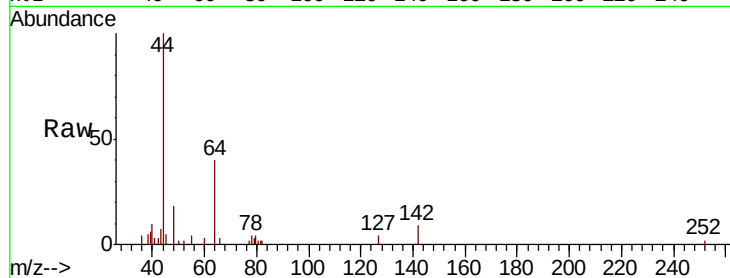
Tot Ion:142 Resp: 467

Ion Ratio Lower Upper

142 100

127 33.2 33.8 50.6#

141 0.0 11.4 17.0#



#11

Tert butyl alcohol

Concen: 1.67 ug/l

RT: 3.07 min Scan# 407

Delta R.T. -0.01 min

Lab File: VX004295.D

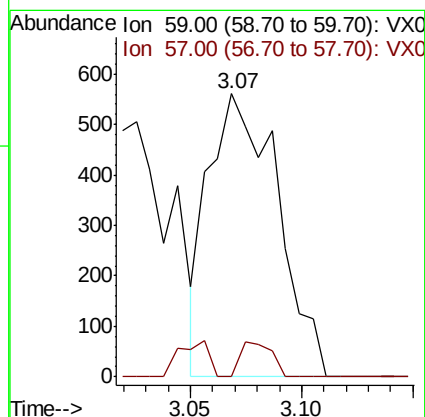
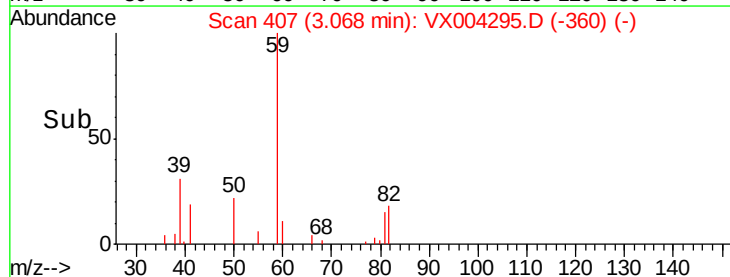
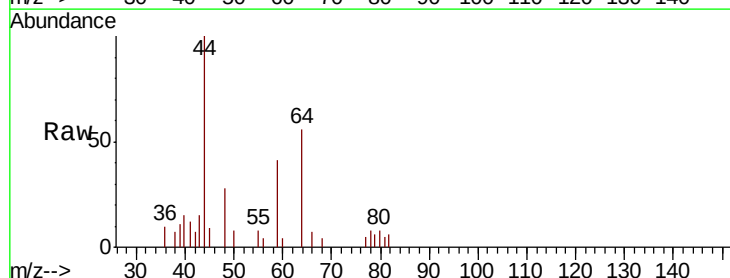
Acq: 29 Aug 2018 16:17

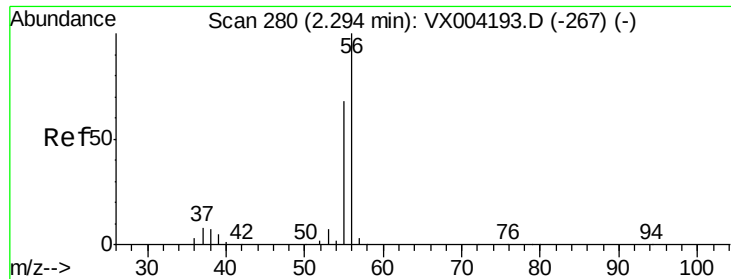
Tgt Ion: 59 Resp: 1212

Ion Ratio Lower Upper

59 100

57 5.6 8.2 12.4#





#13

Acrolein

Concen: 0.41 ua/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

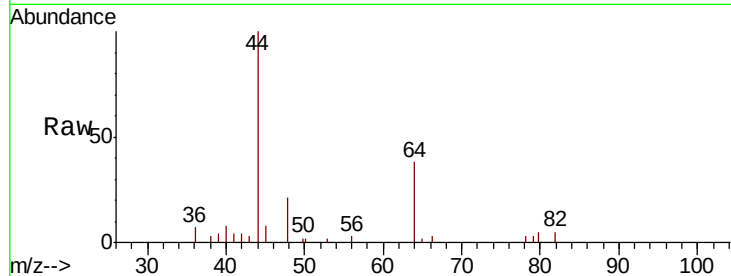
CPA-CPMW04D-M12W4-082318

Tot Ion: 56 Resp: 71

Ion Ratio Lower Upper

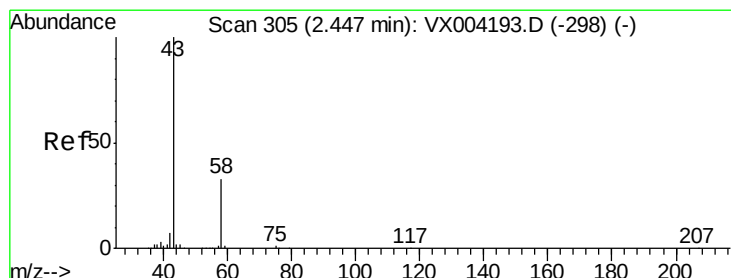
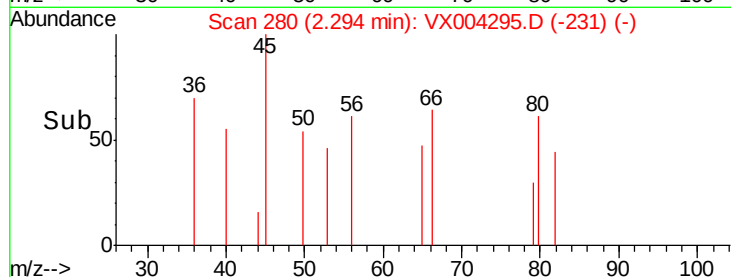
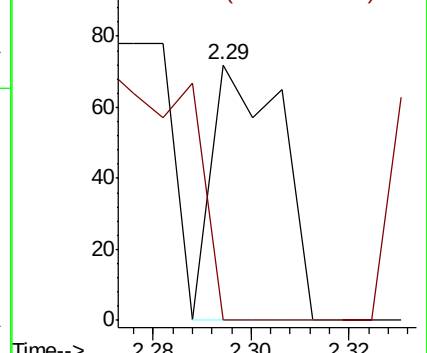
56 100

55 0.0 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: VX004295.D

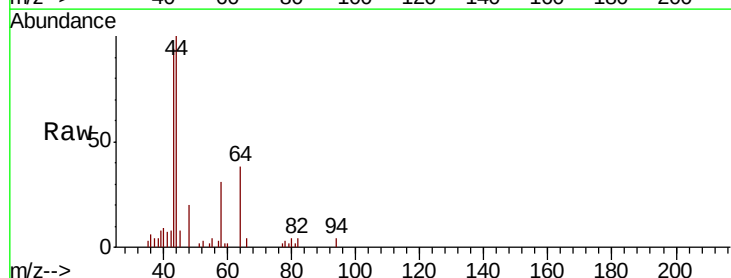
Acq: 29 Aug 2018 16:17

Tgt Ion: 43 Resp: 4234

Ion Ratio Lower Upper

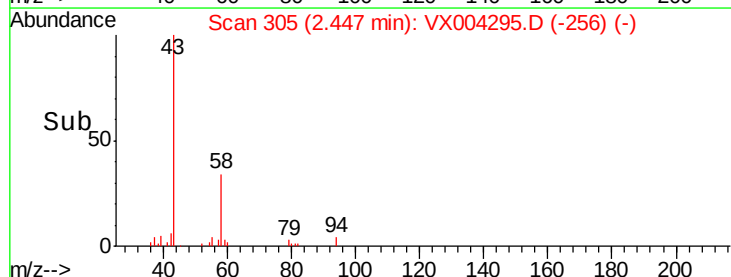
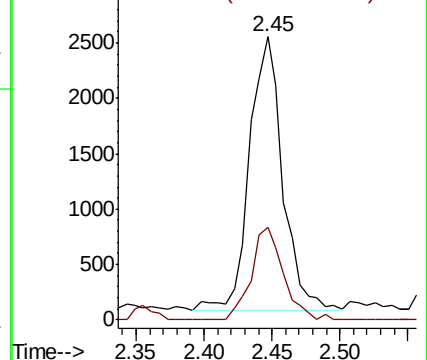
43 100

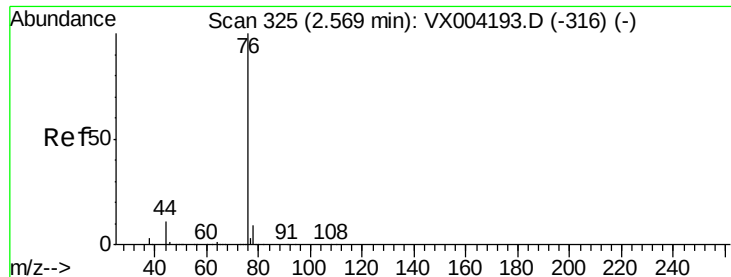
58 33.9 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.86 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

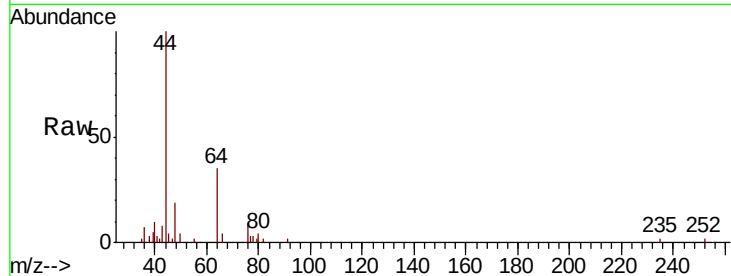
CPA-CPMW04D-M12W4-082318

Tot Ion: 76 Resp: 460

Ion Ratio Lower Upper

76 100

78 3.4 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

250

200

150

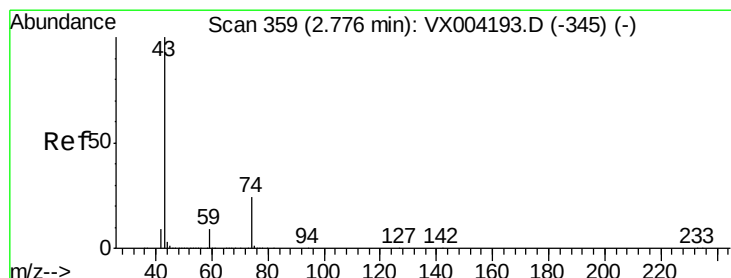
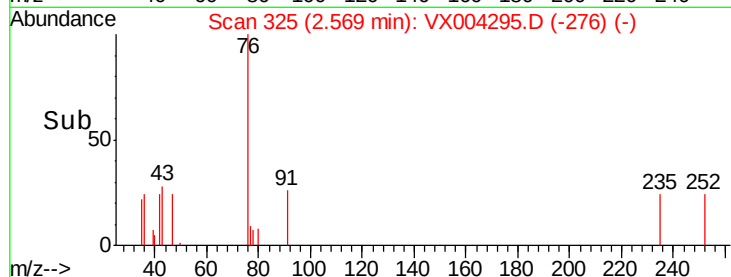
100

50

0

Time-->

2.55 2.60



#18

Methyl Acetate

Concen: 0.22 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.00 min

Lab File: VX004295.D

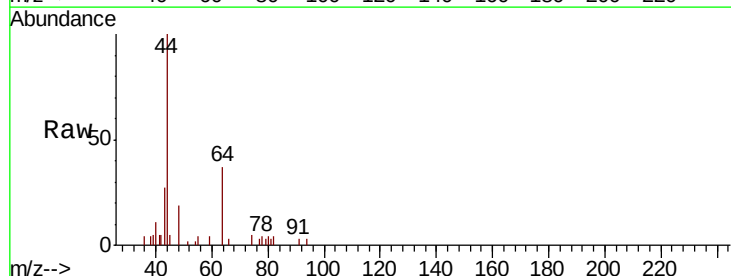
Acq: 29 Aug 2018 16:17

Tgt Ion: 43 Resp: 1118

Ion Ratio Lower Upper

43 100

74 24.9 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

600

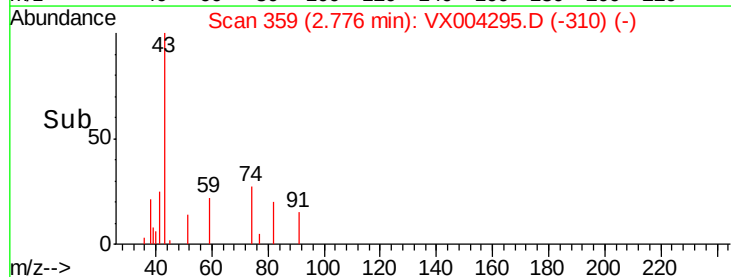
400

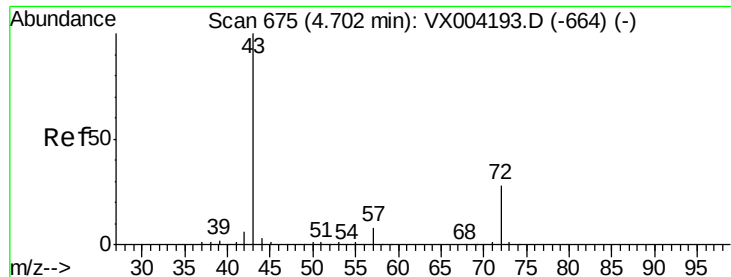
200

0

Time-->

2.70 2.75 2.80 2.85





#25

2-Butanone

Concen: 38.64 ug/l

RT: 4.86 min Scan# 701

Delta R.T. 0.16 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

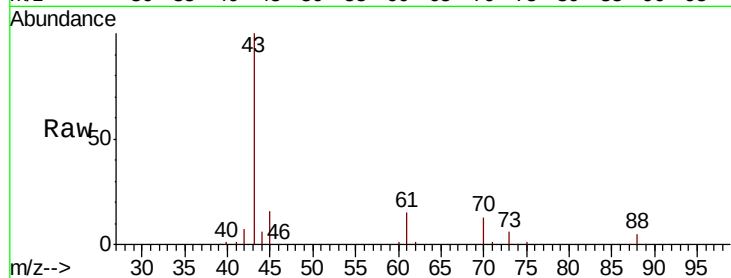
CPA-CPMW04D-M12W4-082318

Tot Ion: 43 Resp: 93738

Ion Ratio Lower Upper

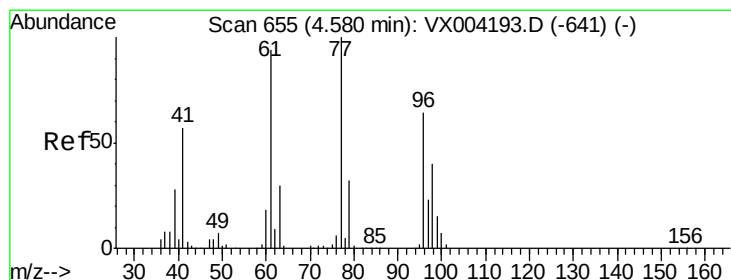
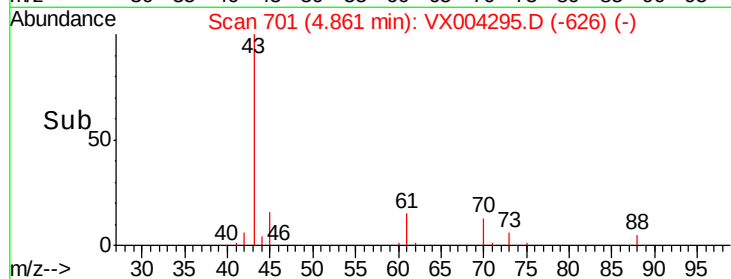
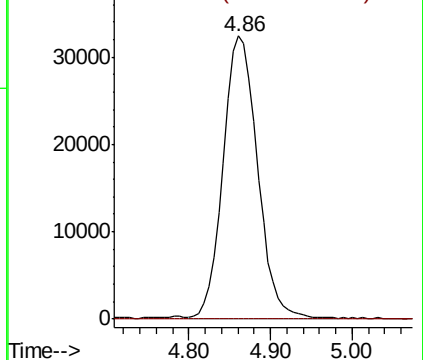
43 100

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: 0.21 ug/l

RT: 4.76 min Scan# 685

Delta R.T. 0.18 min

Lab File: VX004295.D

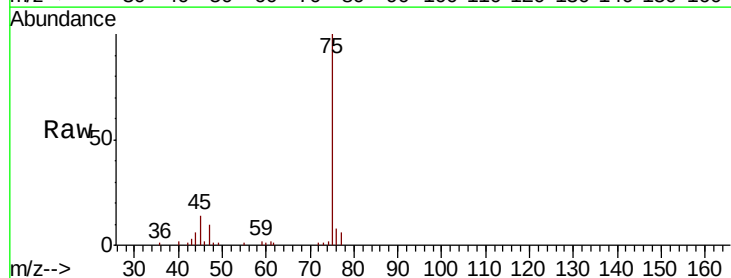
Acq: 29 Aug 2018 16:17

Tgt Ion: 77 Resp: 920

Ion Ratio Lower Upper

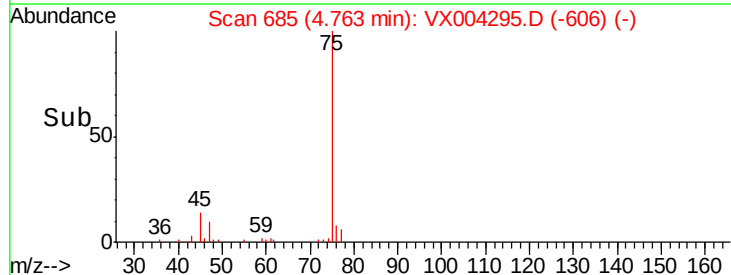
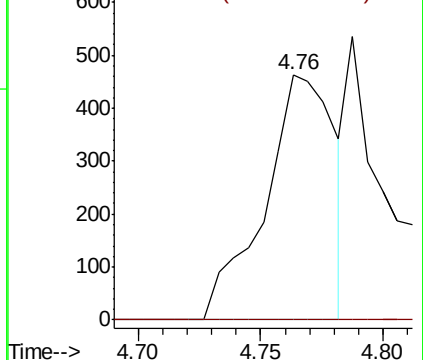
77 100

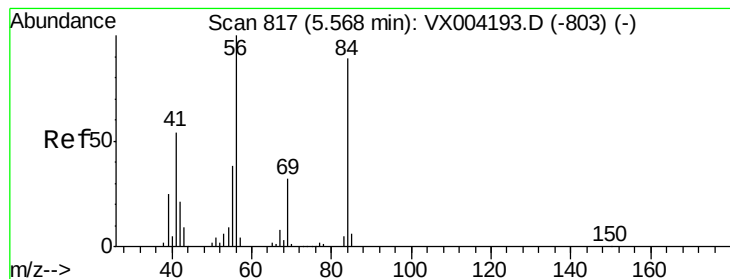
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#31

Cyclohexane

Concen: 0.93 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.09 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

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ClientSampleId :

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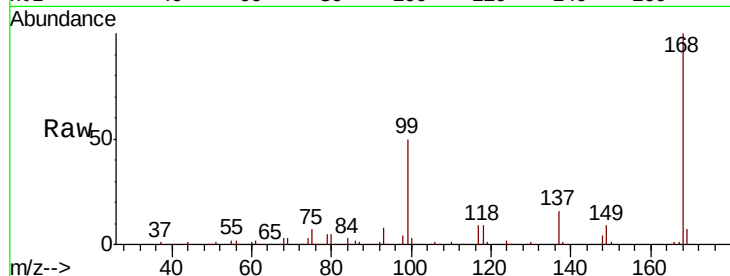
Tot Ion: 56 Resp: 4430

Ion Ratio Lower Upper

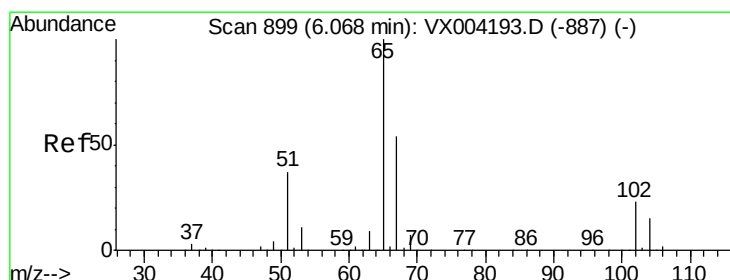
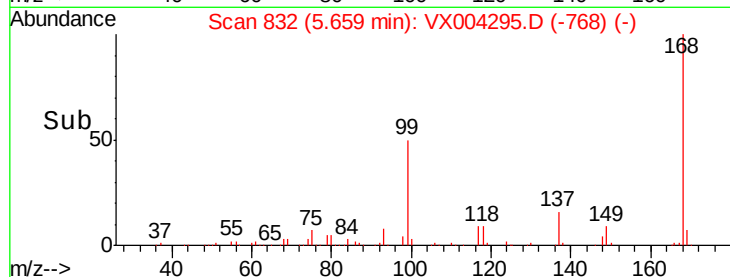
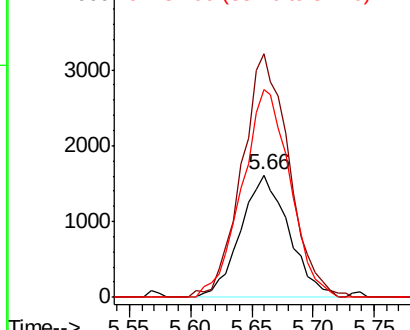
56 100

69 198.6 25.4 38.2#

84 169.6 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: 54.62 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004295.D

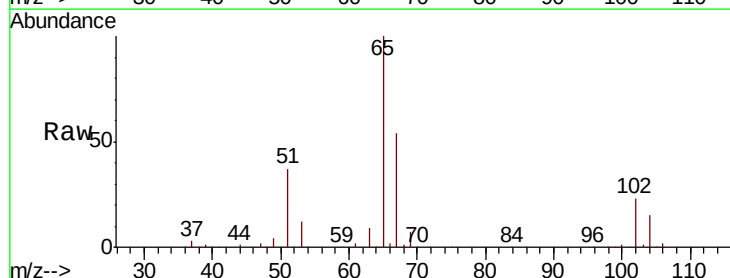
Acq: 29 Aug 2018 16:17

Tgt Ion: 65 Resp: 186149

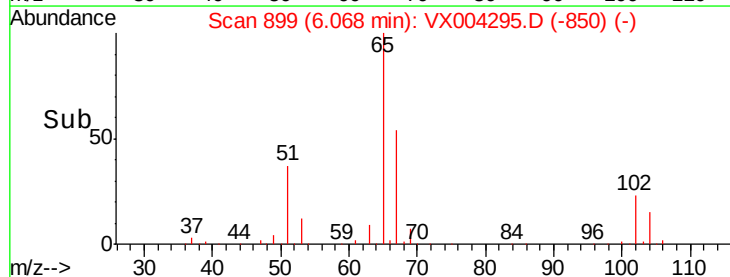
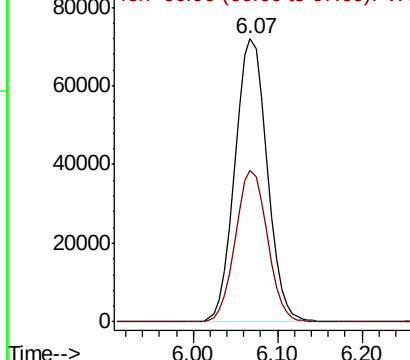
Ion Ratio Lower Upper

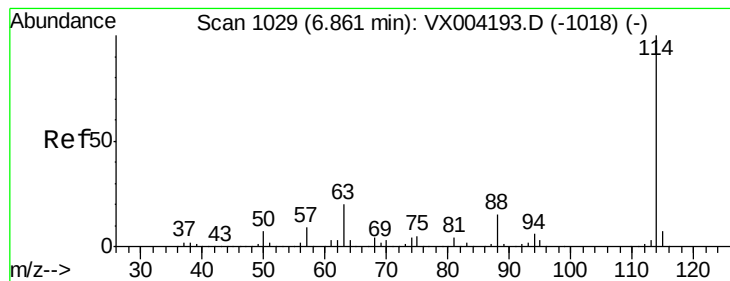
65 100

67 53.3 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: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW04D-M12W4-082318

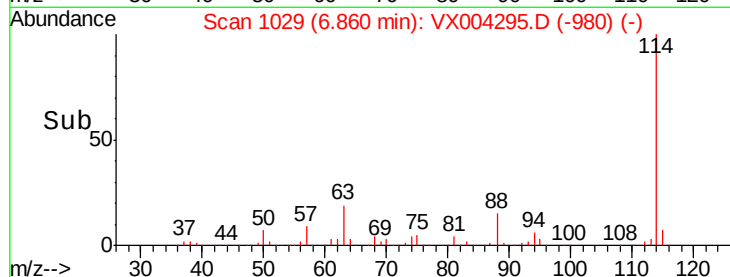
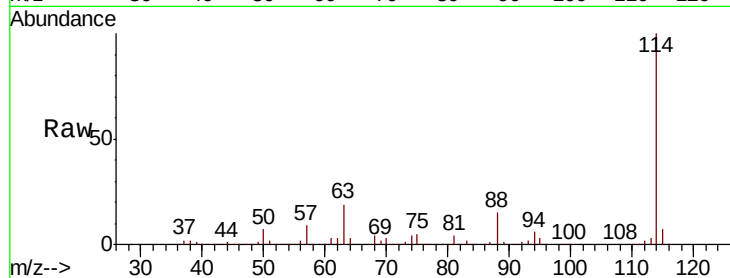
Tot Ion:114 Resp: 410303

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

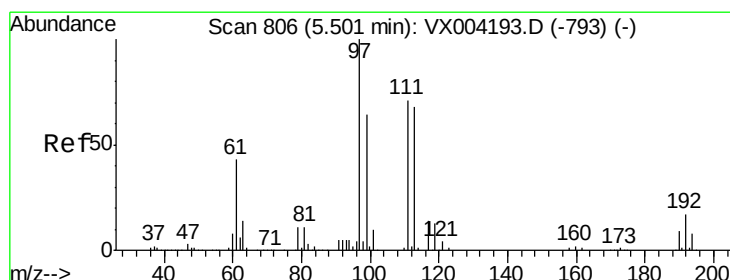
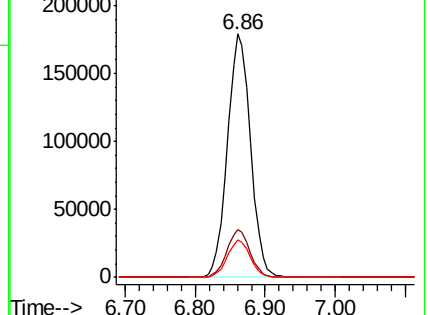
88 15.3 0.0 30.4



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: 53.51 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

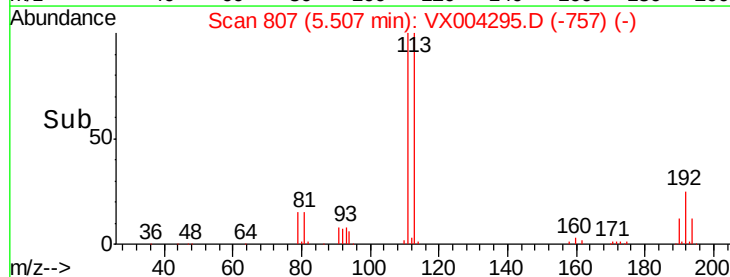
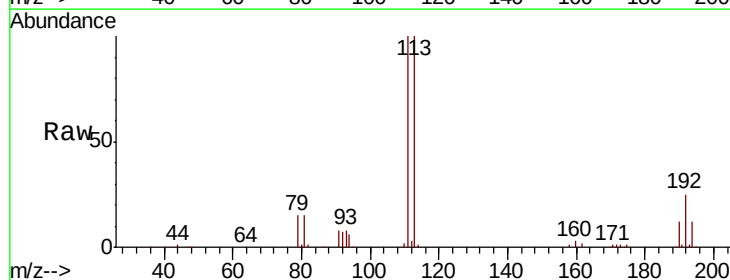
Tgt Ion:113 Resp: 163326

Ion Ratio Lower Upper

113 100

111 102.9 82.4 123.6

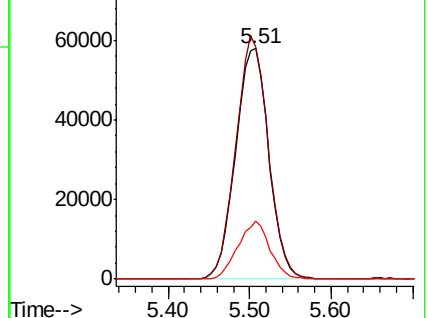
192 24.2 19.4 29.2

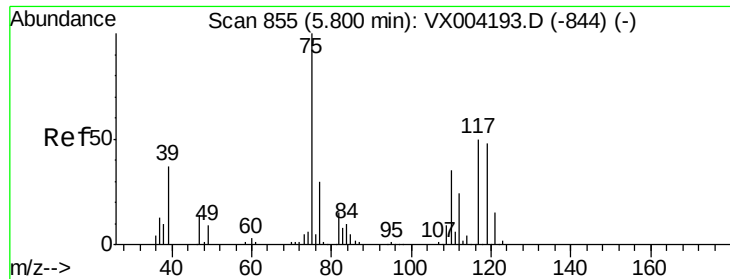


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

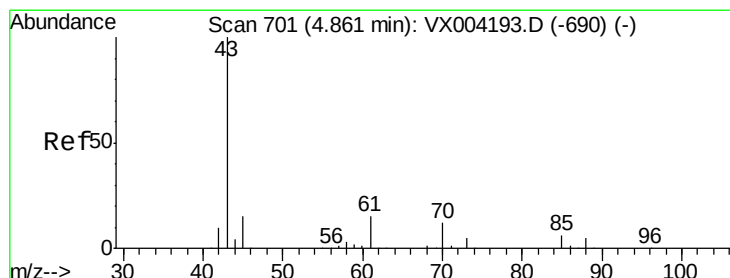
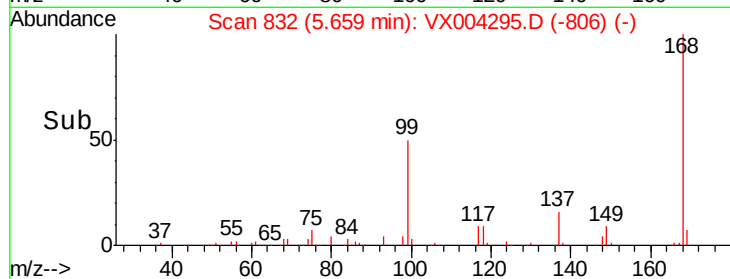
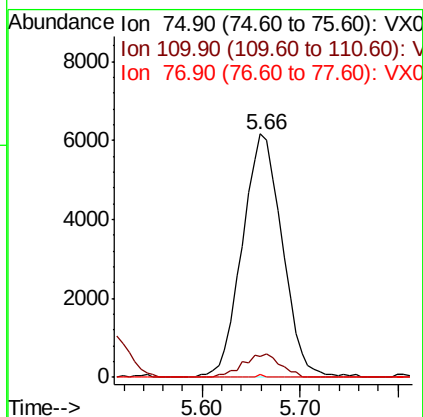
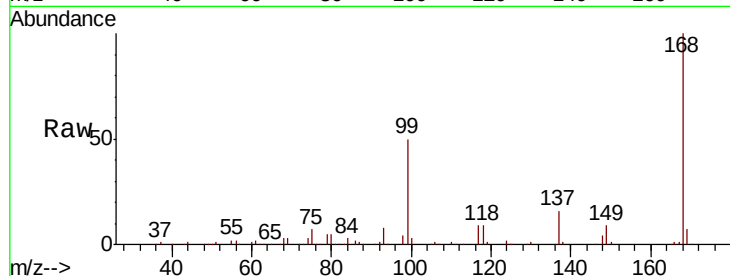




#36
 1,1-Dichloropropene
 Concen: 3.79 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004295.D
 Acq: 29 Aug 2018 16:17

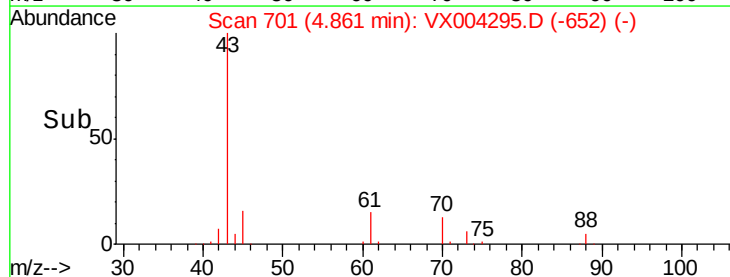
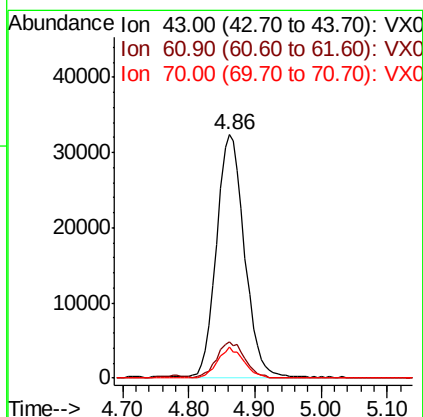
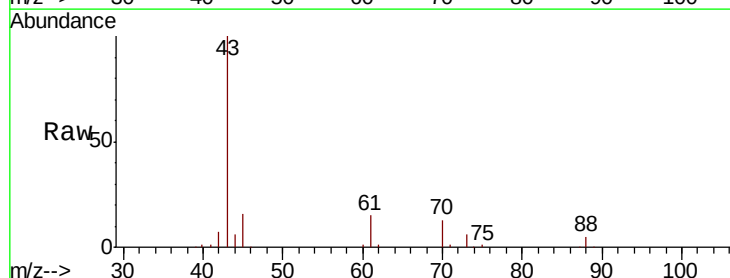
Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW04D-M12W4-082318

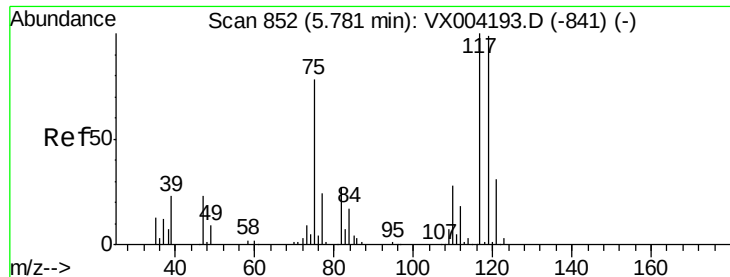
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.0	54.0#
77	0.1	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 20.78 ug/l
 RT: 4.86 min Scan# 701
 Delta R.T. -0.00 min
 Lab File: VX004295.D
 Acq: 29 Aug 2018 16:17

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.5	17.3
70	11.9	9.0	13.6





#38

Carbon Tetrachloride

Concen: 5.23 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW04D-M12W4-082318

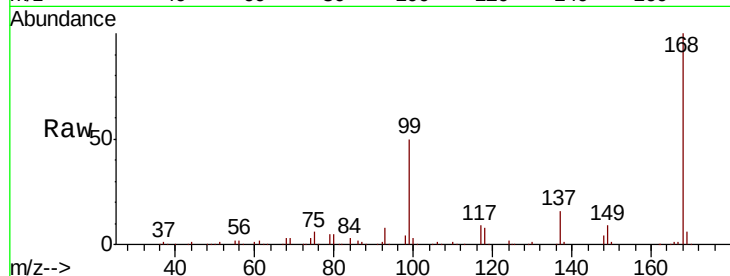
Tot Ion:117 Resp: 22674

Ion Ratio Lower Upper

117 100

119 5.7 78.8 118.2#

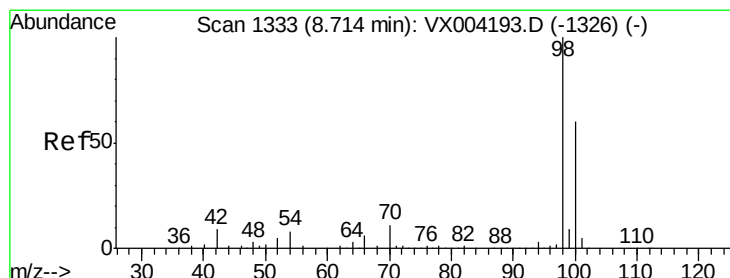
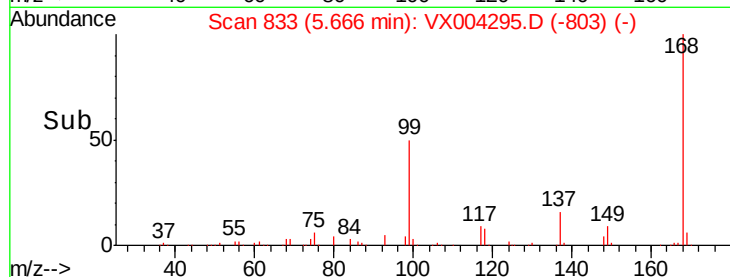
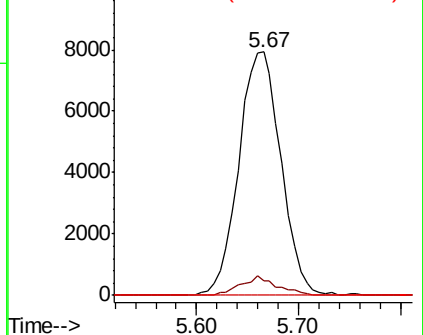
121 0.0 24.9 37.3#



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: 50.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.01 min

Lab File: VX004295.D

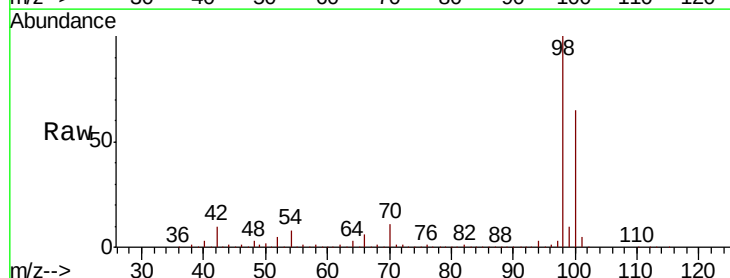
Acq: 29 Aug 2018 16:17

Tgt Ion: 98 Resp: 582135

Ion Ratio Lower Upper

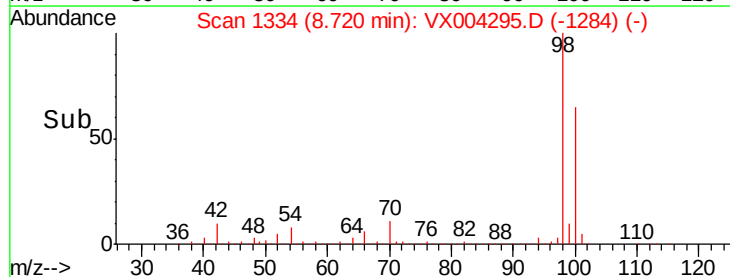
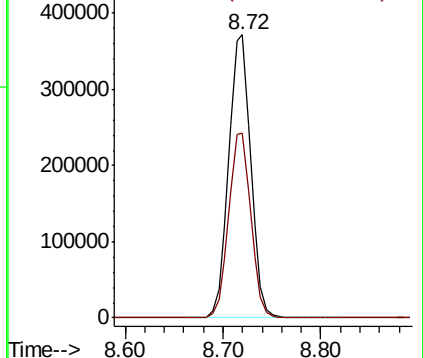
98 100

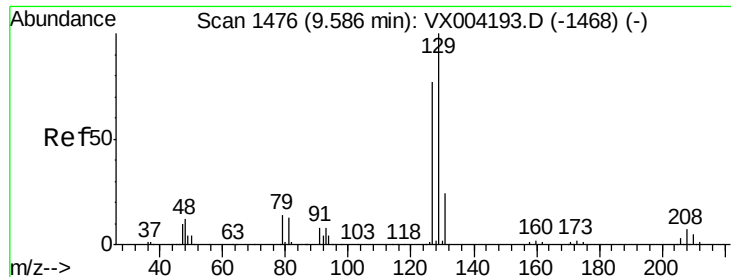
100 65.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.65 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

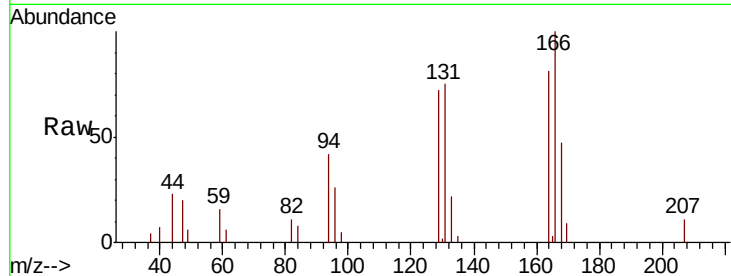
CPA-CPMW04D-M12W4-082318

Tot Ion:129 Resp: 2207

Ion Ratio Lower Upper

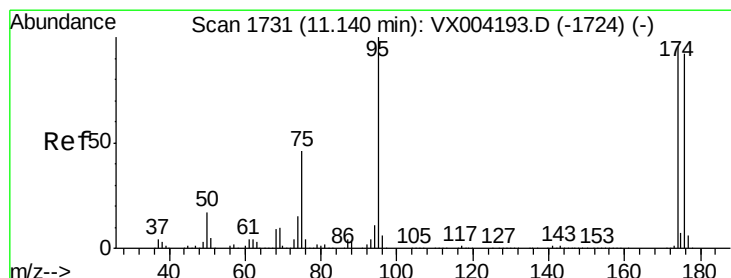
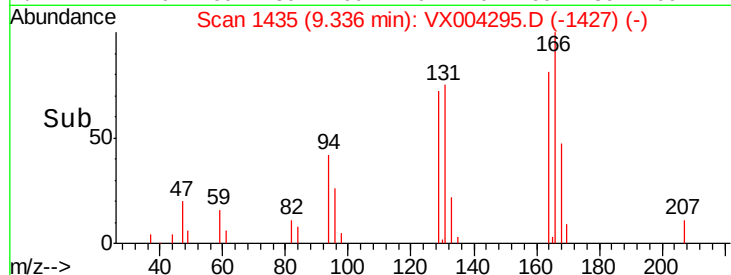
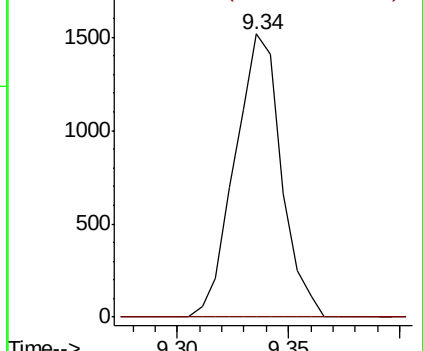
129 100

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: 46.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

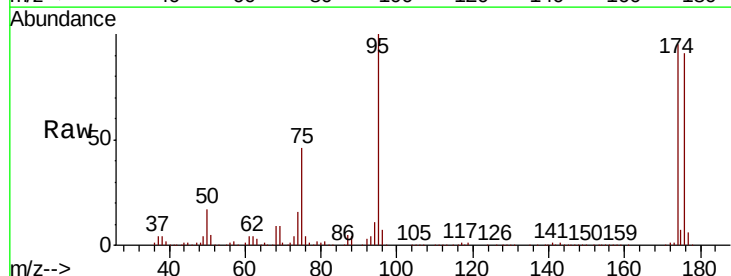
Tgt Ion: 95 Resp: 199263

Ion Ratio Lower Upper

95 100

174 94.1 0.0 185.2

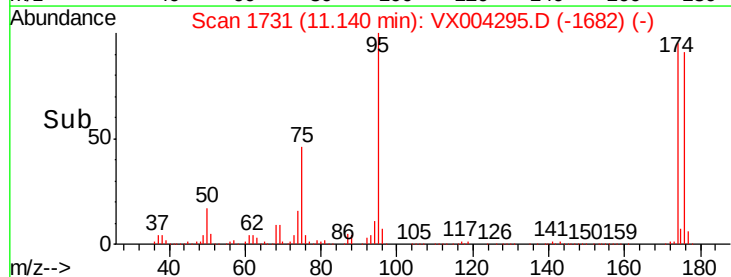
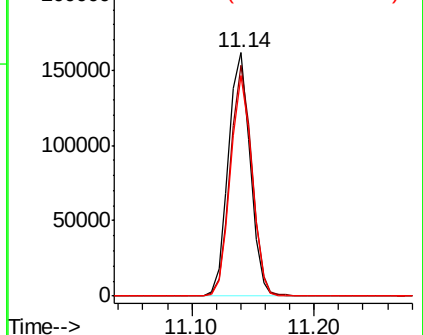
176 89.2 0.0 178.6

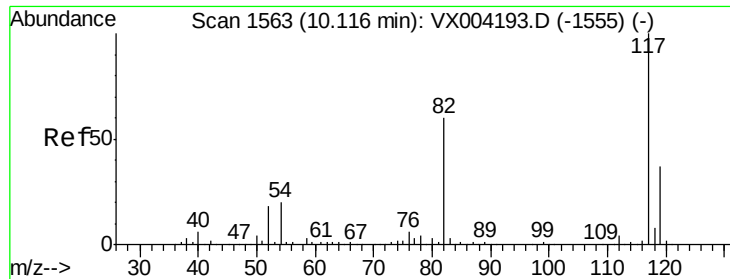


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

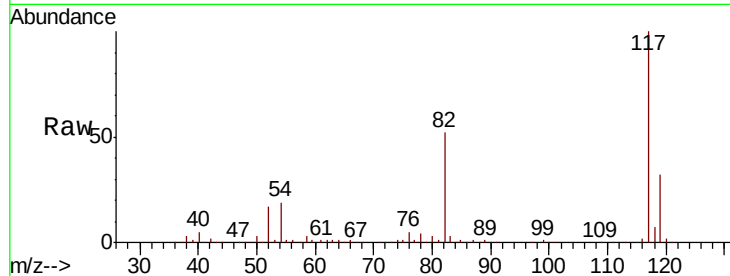




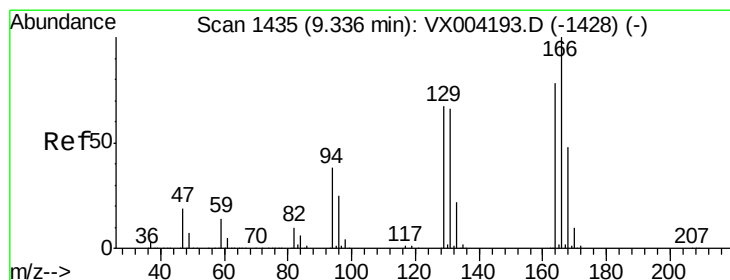
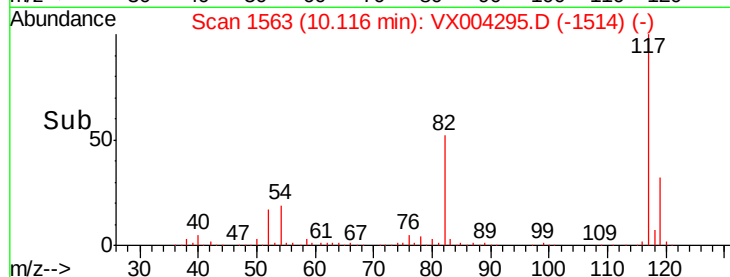
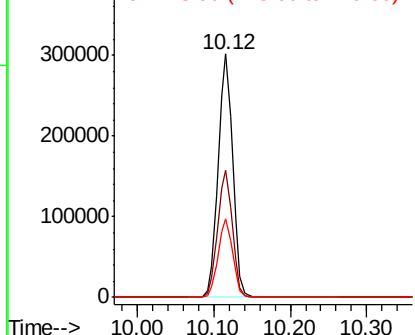
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004295.D
Acq: 29 Aug 2018 16:17

Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW04D-M12W4-082318

Tot Ion:117 Resp: 397221
Ion Ratio Lower Upper
117 100
82 52.2 47.8 71.6
119 32.3 29.3 43.9

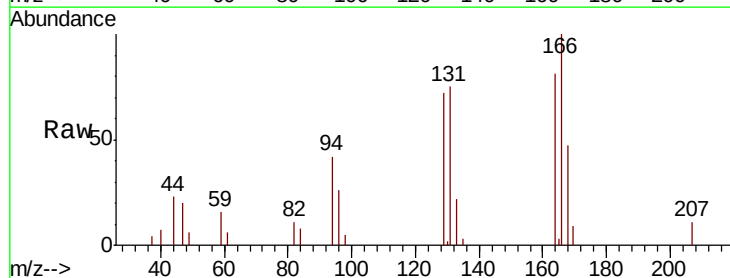


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

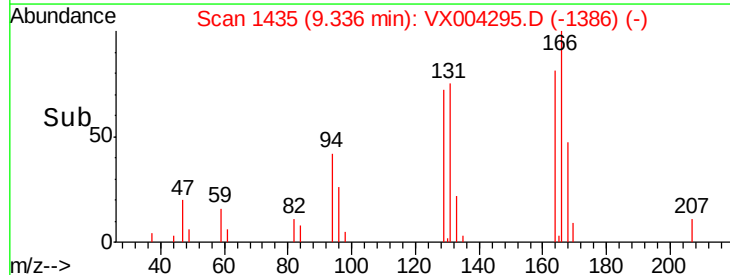
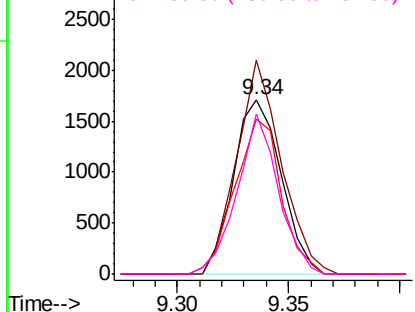


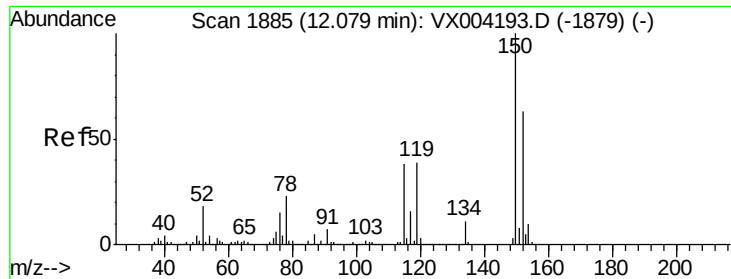
#64
Tetrachloroethene
Concen: 0.65 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004295.D
Acq: 29 Aug 2018 16:17

Tgt Ion:164 Resp: 2552
Ion Ratio Lower Upper
164 100
166 122.7 102.8 154.2
129 88.7 69.4 104.0
131 92.3 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: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW04D-M12W4-082318

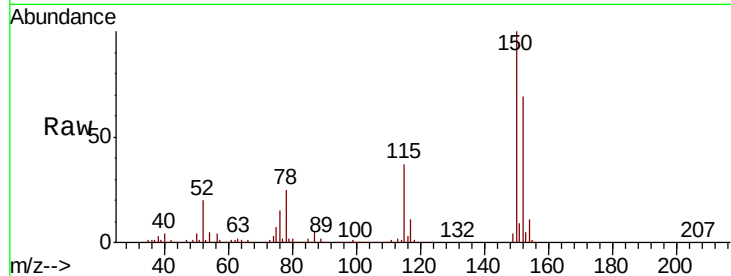
Tot Ion:152 Resp: 206762

Ion Ratio Lower Upper

152 100

115 54.9 39.0 117.0

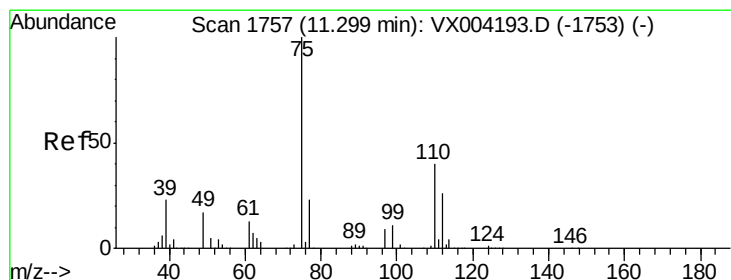
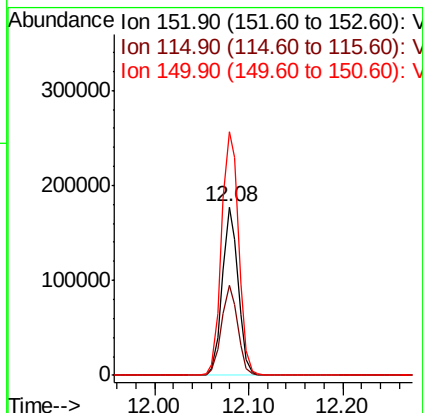
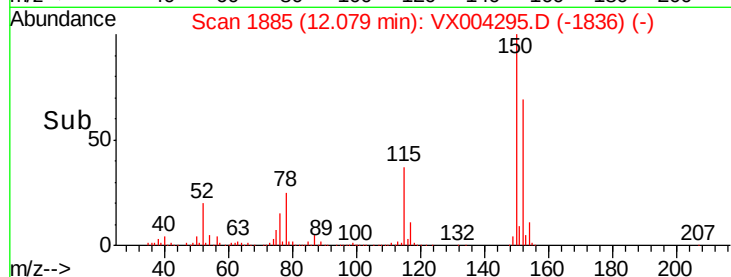
150 155.6 0.0 351.0



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: 22.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004295.D

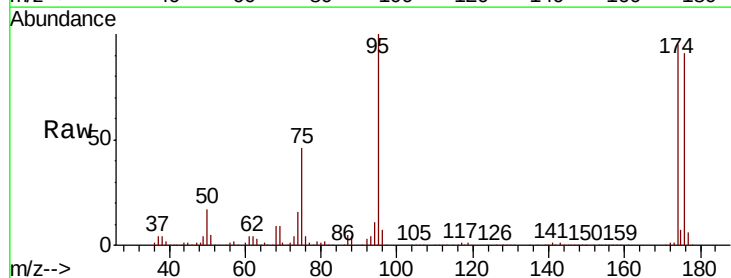
Acq: 29 Aug 2018 16:17

Tgt Ion: 75 Resp: 94758

Ion Ratio Lower Upper

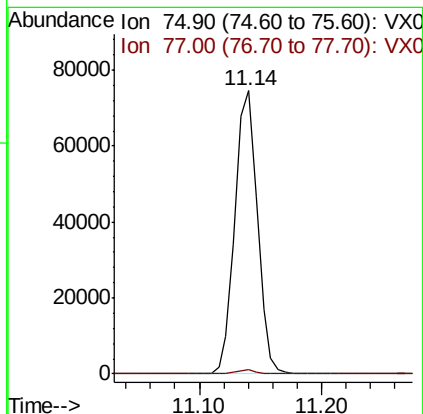
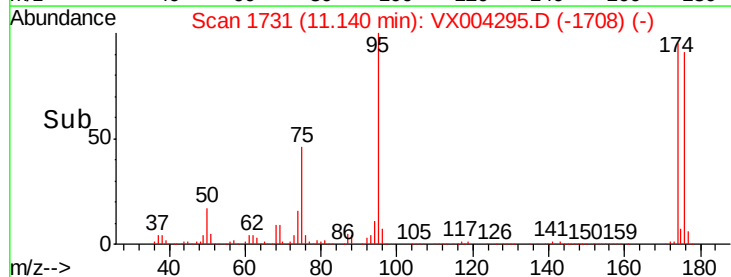
75 100

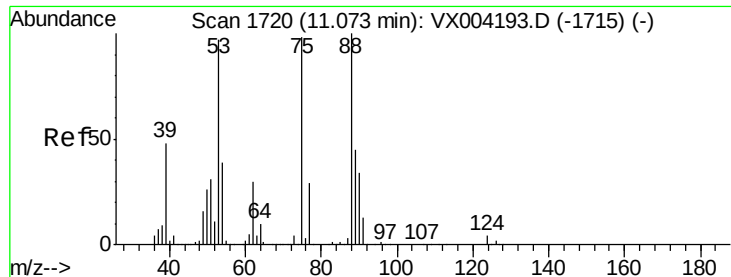
77 1.3 20.2 60.6#



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: 73.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004295.D

Acq: 29 Aug 2018 16:17

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW04D-M12W4-082318

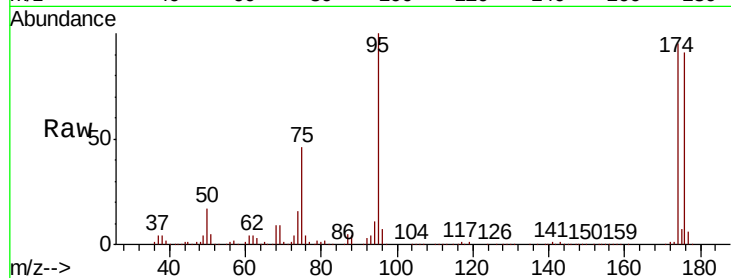
Tot Ion: 75 Resp: 94758

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

