

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082918\
 Data File : VX004296.D
 Acq On : 29 Aug 2018 16:44
 Operator : JC/MD
 Sample : J4681-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW05D-M12W4-082318

Quant Time: Aug 30 02:09:39 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	247177	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	390554	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	357479	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190075	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	178298	55.34	ug/l	0.00
Spiked Amount			Recovery	=	110.68%	
35) Dibromofluoromethane	5.50	113	156171	53.75	ug/l	0.00
Spiked Amount			Recovery	=	107.50%	
50) Toluene-d8	8.72	98	557330	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.14	95	190812	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	

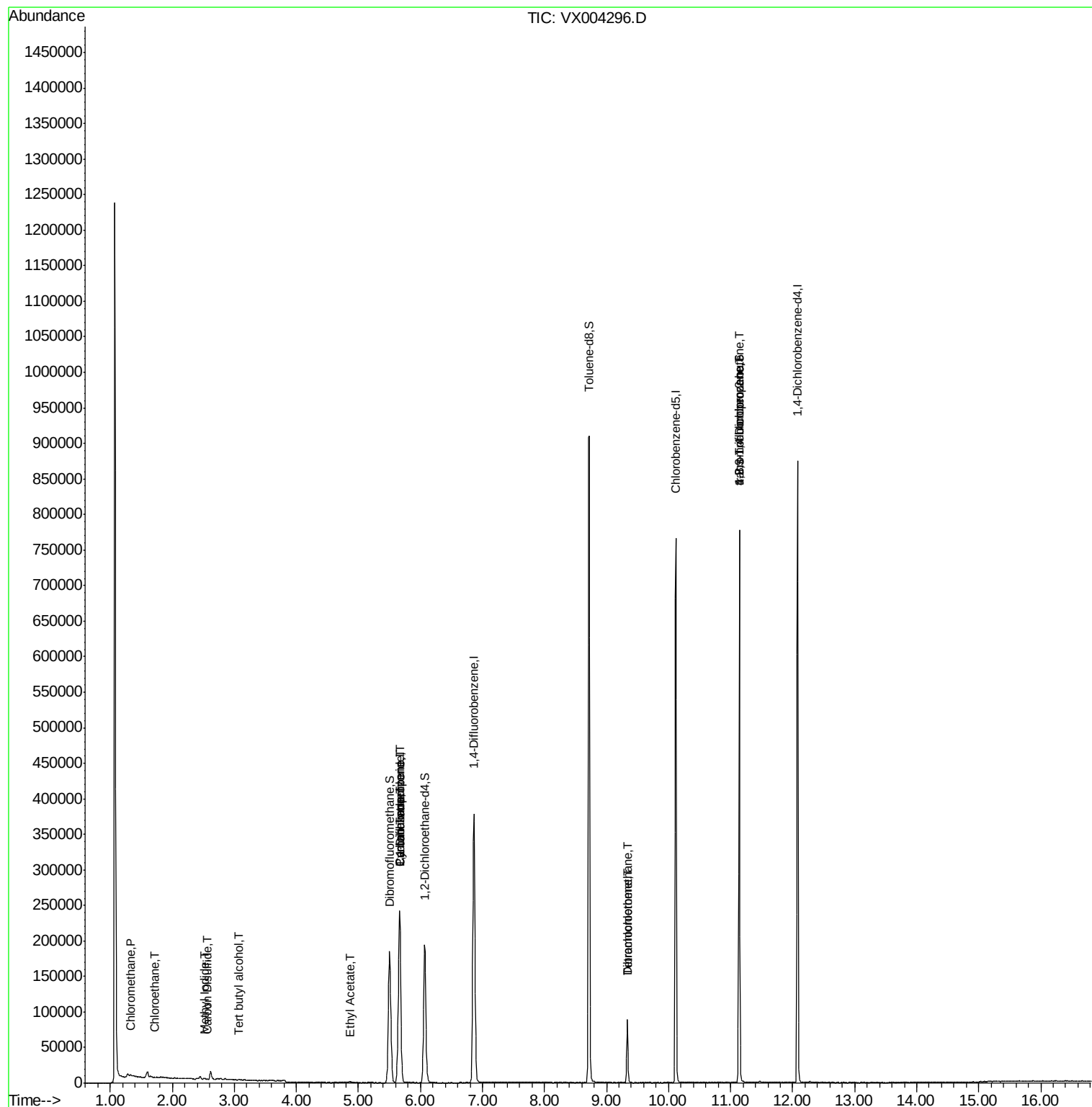
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1032	0.61	ug/l #	86
5) Bromomethane	1.64	94	1046	Below Cal		90
6) Chloroethane	1.71	64	530	1.17	ug/l #	71
10) Methyl Iodide	2.51	142	375	4.37	ug/l #	76
11) Tert butyl alcohol	3.07	59	806	1.17	ug/l	98
16) Acetone	2.44	43	3473	Below Cal		97
17) Carbon Disulfide	2.57	76	447	0.86	ug/l #	31
25) 2-Butanone	4.71	43	527	Below Cal	#	47
31) Cyclohexane	5.66	56	4264	0.94	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16486	3.75	ug/l #	50
37) Ethyl Acetate	4.87	43	2474	0.57	ug/l #	75
38) Carbon Tetrachloride	5.67	117	21700	5.25	ug/l #	16
60) Dibromochloromethane	9.34	129	15952	4.94	ug/l #	11
64) Tetrachloroethene	9.34	164	18435	5.22	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	89464	23.14	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	89464	75.09	ug/l #	10

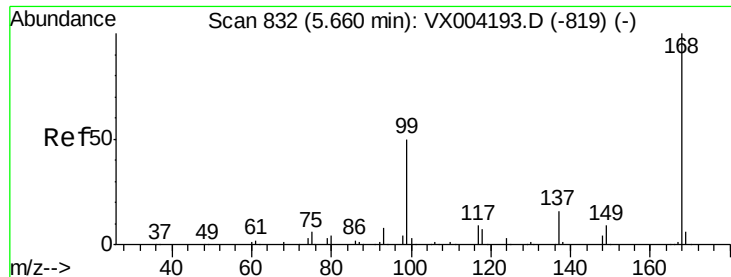
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX004296.D

Acq: 29 Aug 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

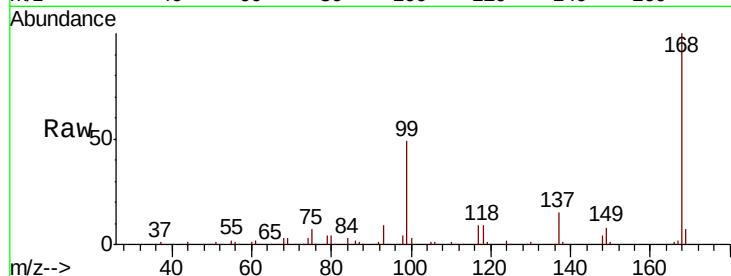
CPA-CPMW05D-M12W4-082318

Tot Ion:168 Resp: 247177

Ion Ratio Lower Upper

168 100

99 49.4 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

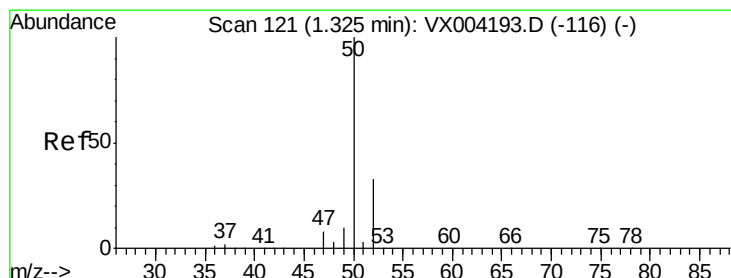
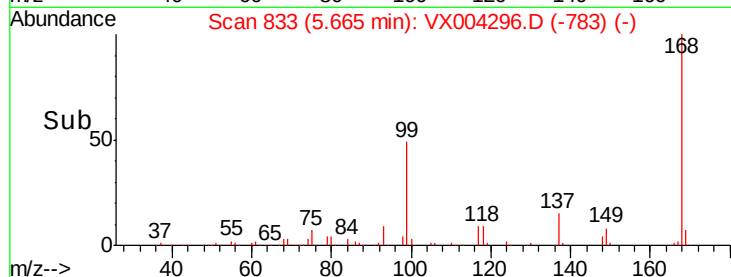
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.61 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004296.D

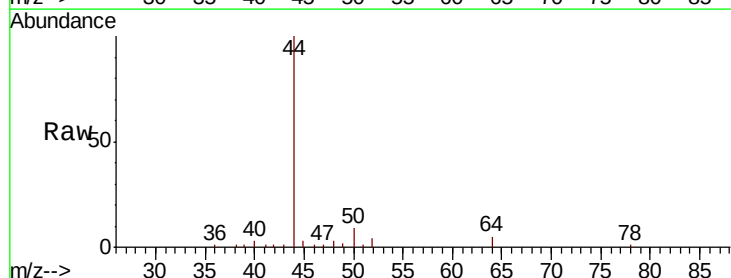
Acq: 29 Aug 2018 16:44

Tgt Ion: 50 Resp: 1032

Ion Ratio Lower Upper

50 100

52 40.5 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

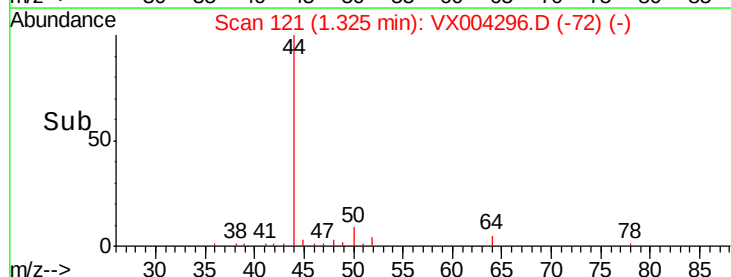
400

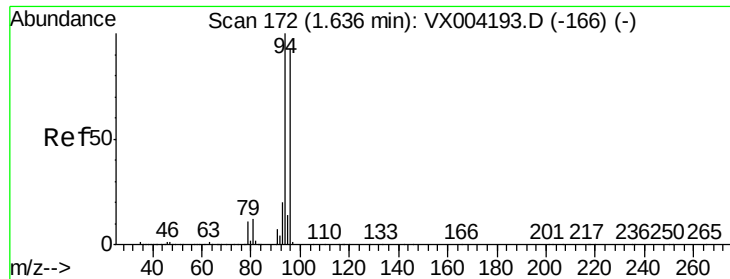
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

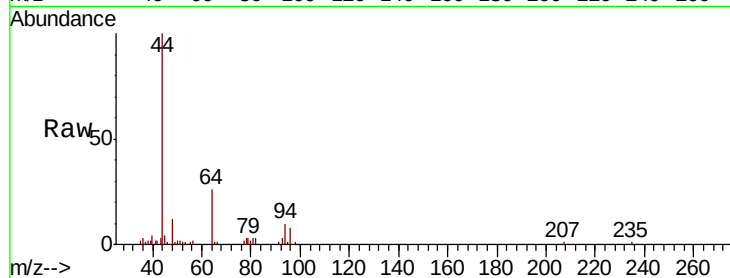
CPA-CPMW05D-M12W4-082318

Tot Ion: 94 Resp: 1046

Ion Ratio Lower Upper

94 100

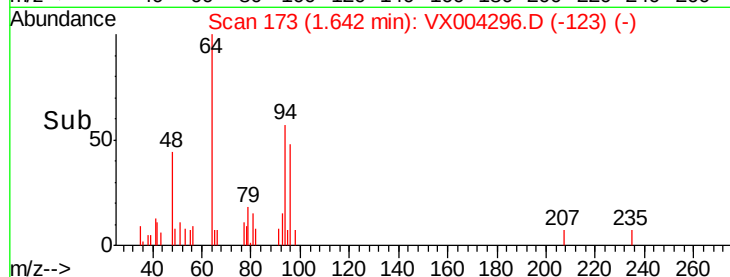
96 83.2 74.5 111.7



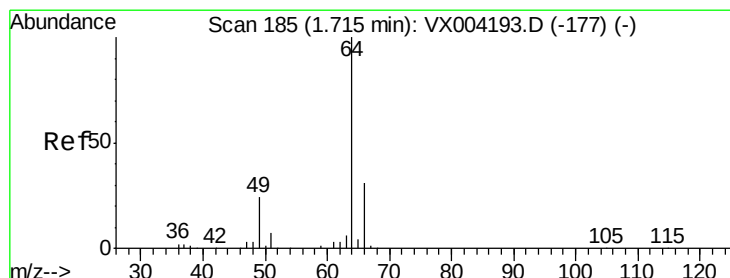
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

Time-->



Time-->



#6

Chloroethane

Concen: 1.17 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX004296.D

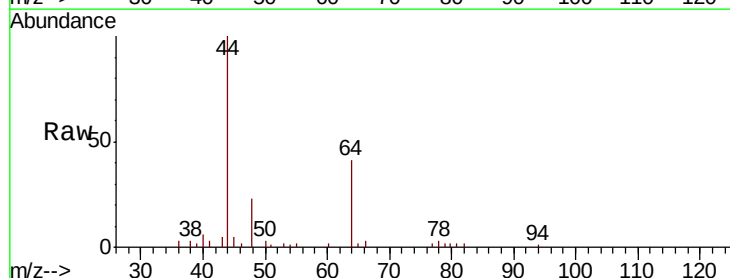
Acq: 29 Aug 2018 16:44

Tgt Ion: 64 Resp: 530

Ion Ratio Lower Upper

64 100

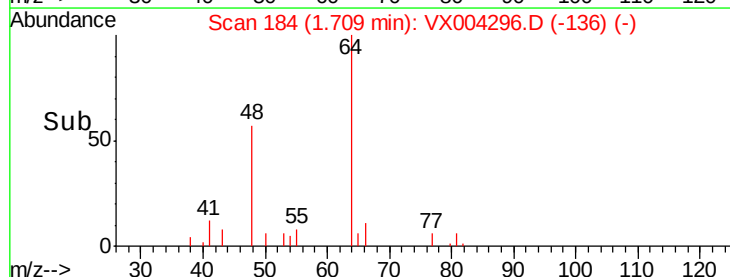
66 14.9 24.6 36.8#



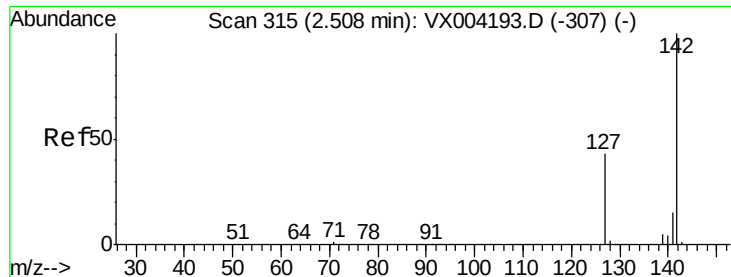
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

Time-->



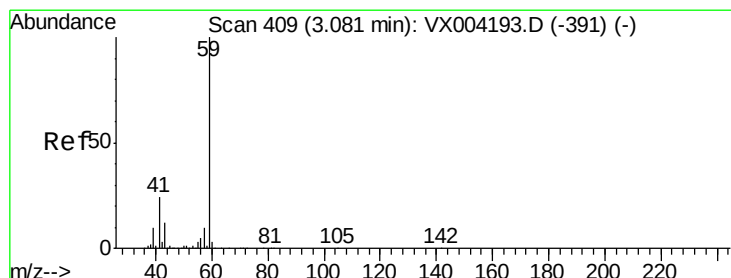
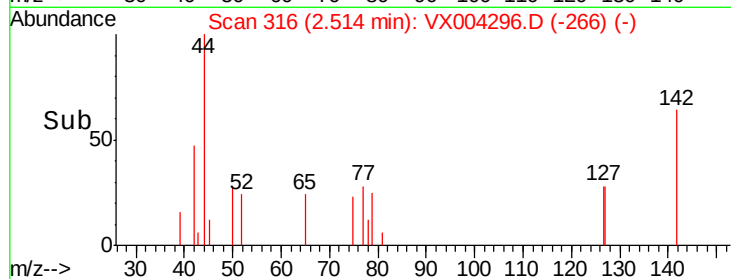
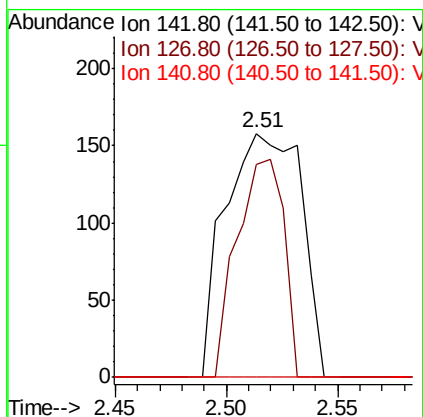
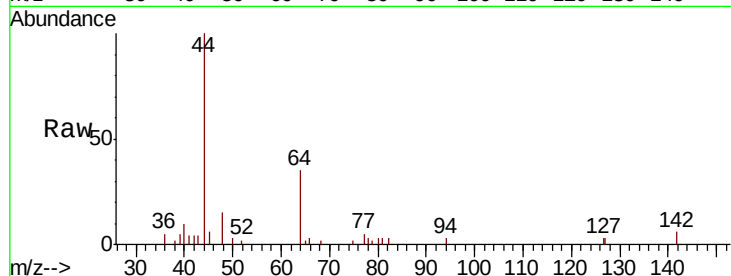
Time-->



#10
Methyl Iodide
Concen: 4.37 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004296.D
Acq: 29 Aug 2018 16:44

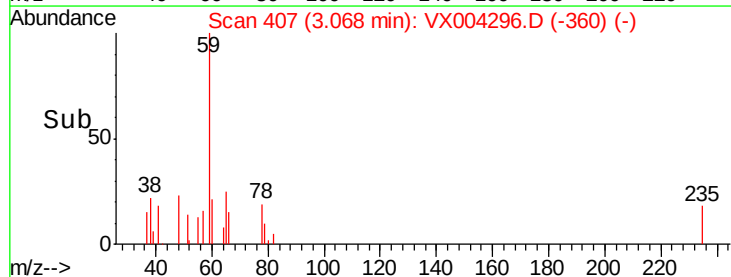
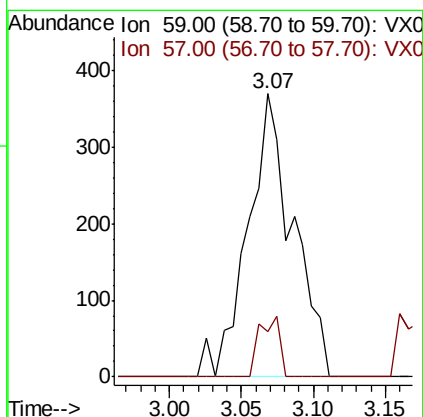
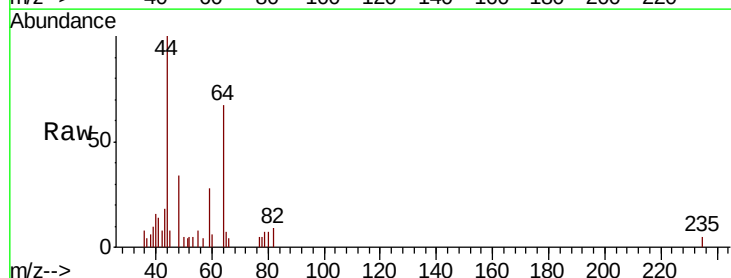
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW05D-M12W4-082318

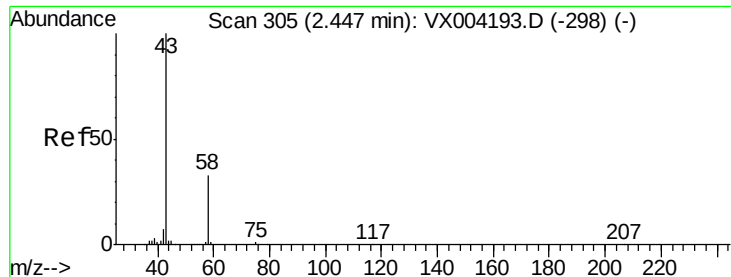
Tot Ion:142 Resp: 375
Ion Ratio Lower Upper
142 100
127 55.2 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.17 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX004296.D
Acq: 29 Aug 2018 16:44

Tgt Ion: 59 Resp: 806
Ion Ratio Lower Upper
59 100
57 9.4 8.2 12.4

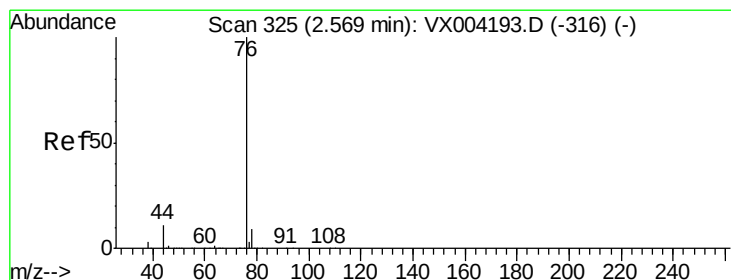
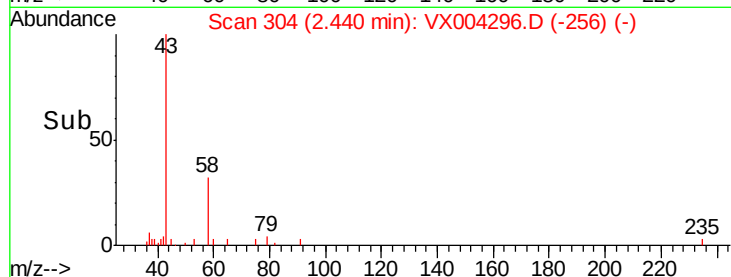
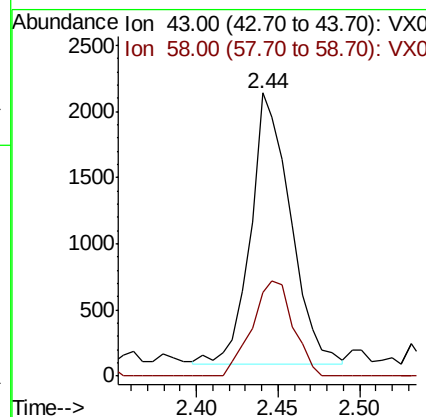
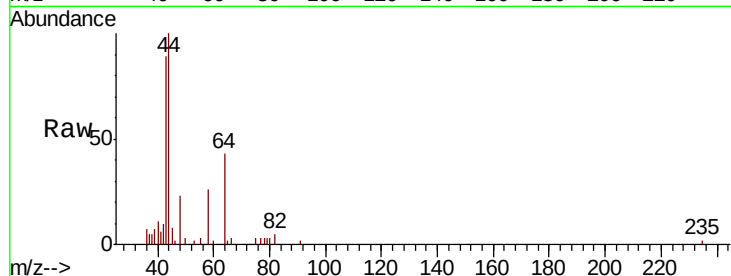




#16
Acetone
Concen: Below Cal
RT: 2.44 min Scan# 304
Delta R.T. -0.01 min
Lab File: VX004296.D
Acq: 29 Aug 2018 16:44

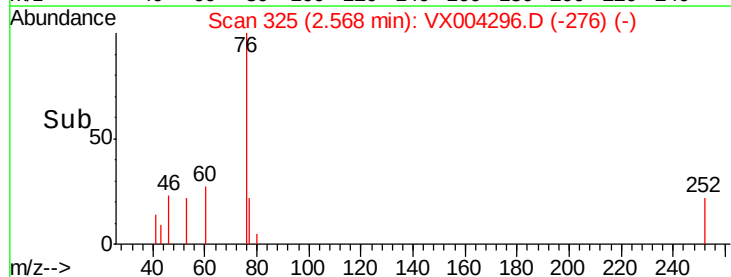
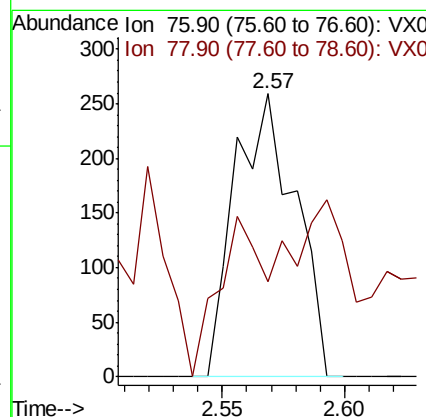
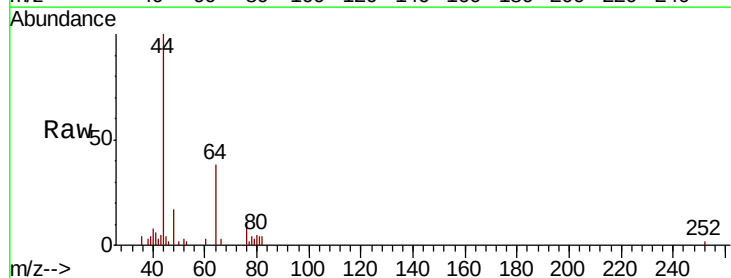
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW05D-M12W4-082318

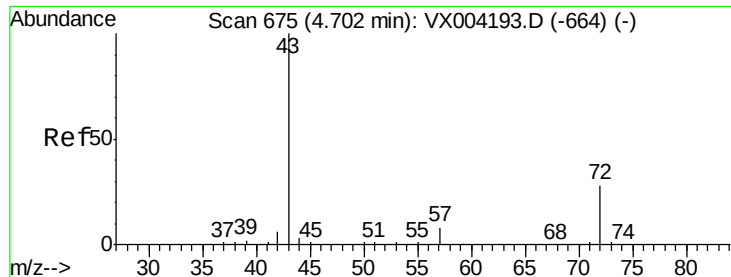
Tot Ion: 43 Resp: 3473
Ion Ratio Lower Upper
43 100
58 31.2 26.2 39.4



#17
Carbon Disulfide
Concen: 0.86 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX004296.D
Acq: 29 Aug 2018 16:44

Tgt Ion: 76 Resp: 447
Ion Ratio Lower Upper
76 100
78 33.6 7.0 10.6#





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

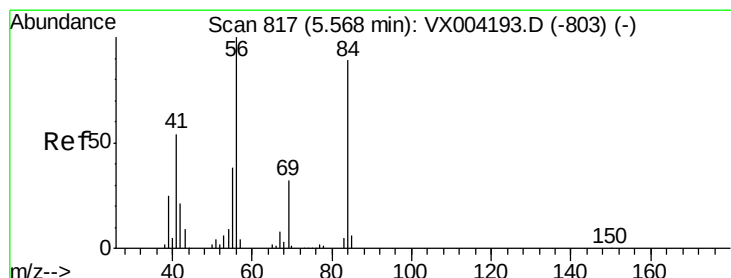
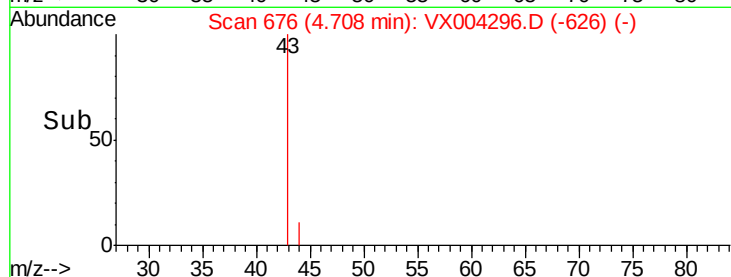
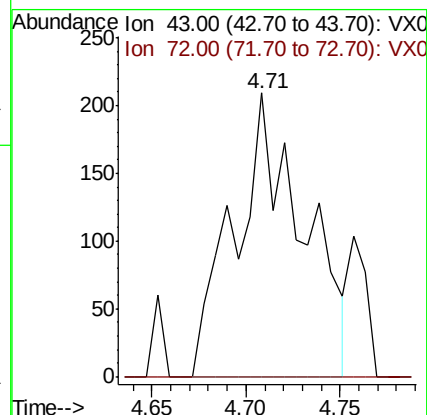
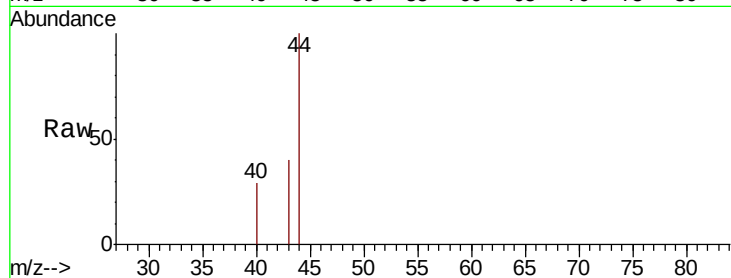
CPA-CPMW05D-M12W4-082318

Tot Ion: 43 Resp: 527

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#31

Cyclohexane

Concen: 0.94 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.09 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

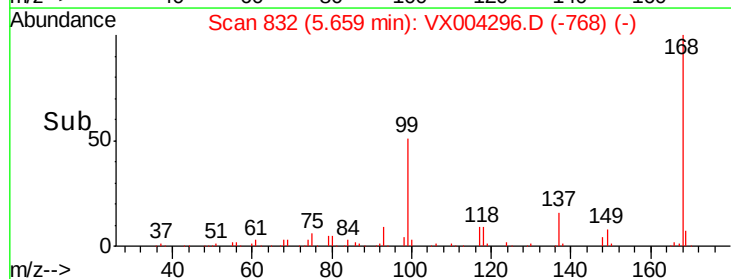
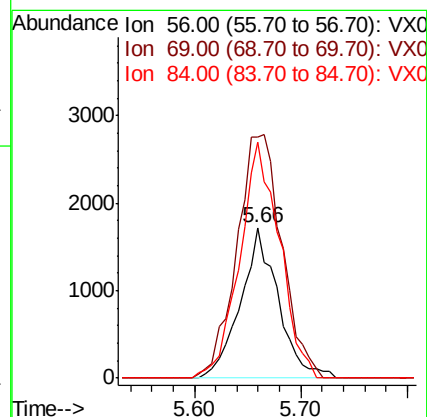
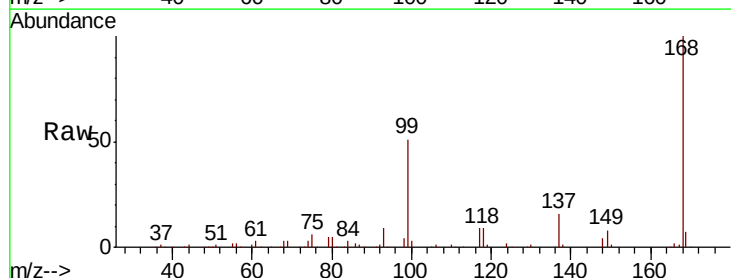
Tgt Ion: 56 Resp: 4264

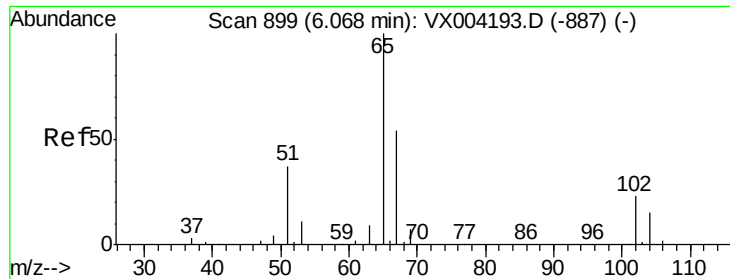
Ion Ratio Lower Upper

56 100

69 160.3 25.4 38.2#

84 156.8 71.4 107.2#

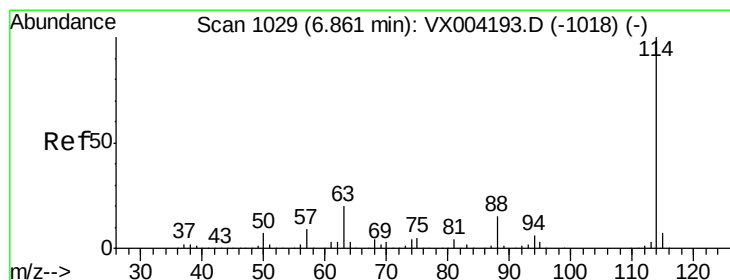
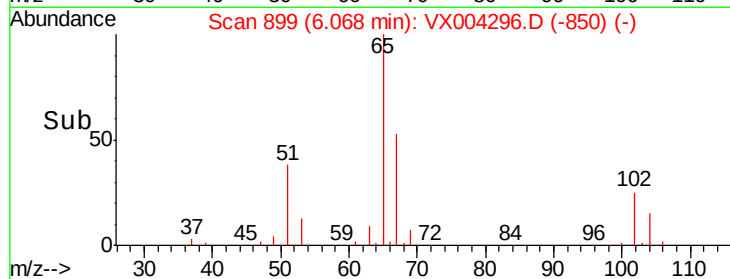
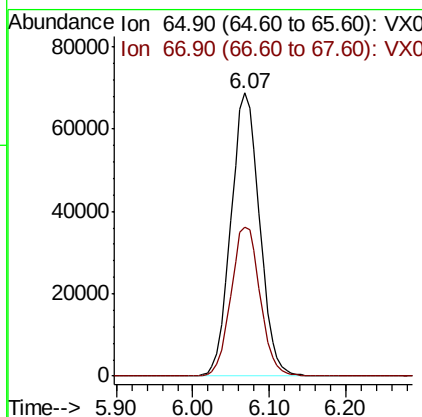
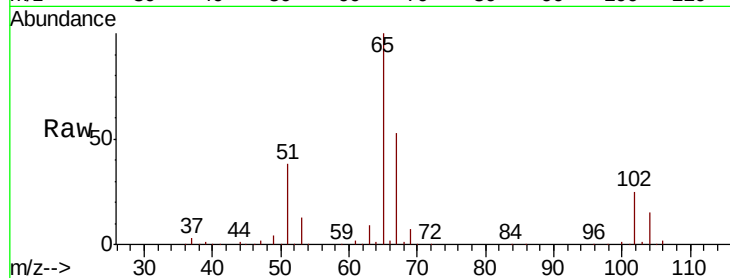




#33
 1,2-Dichloroethane-d4
 Concen: 55.34 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004296.D
 Acq: 29 Aug 2018 16:44

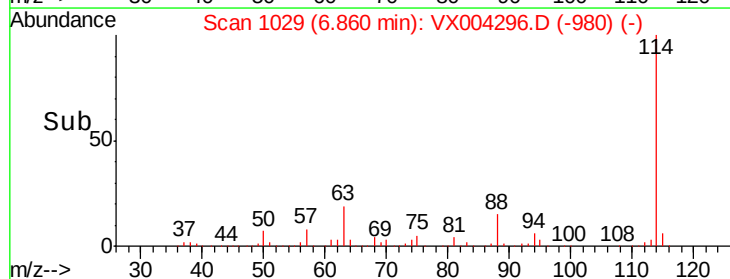
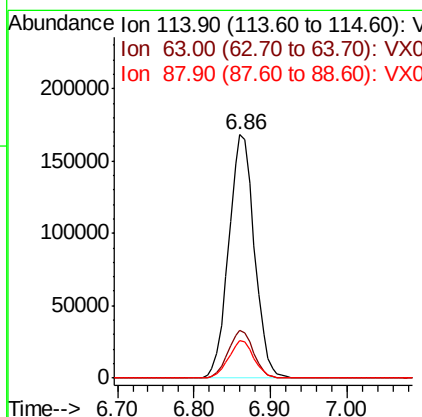
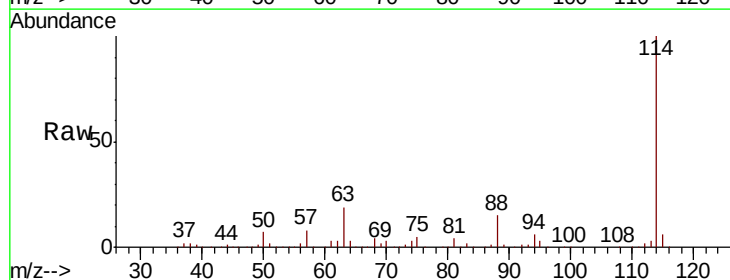
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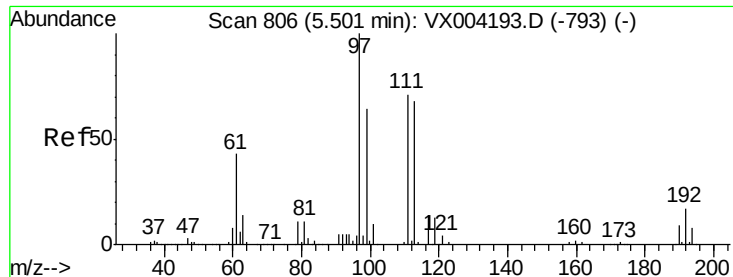
Tot Ion: 65 Resp: 178298
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004296.D
 Acq: 29 Aug 2018 16:44

Tgt Ion: 114 Resp: 390554
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.2 0.0 30.4





#35

Dibromofluoromethane

Concen: 53.75 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW05D-M12W4-082318

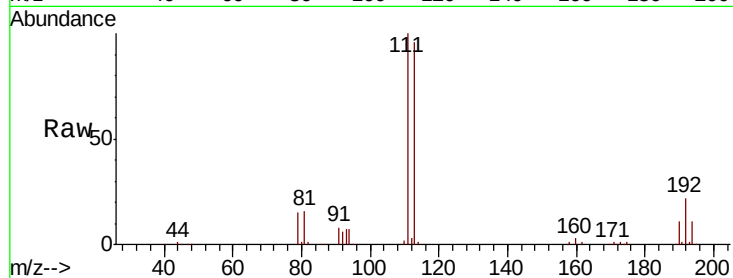
Tot Ion:113 Resp: 156171

Ion Ratio Lower Upper

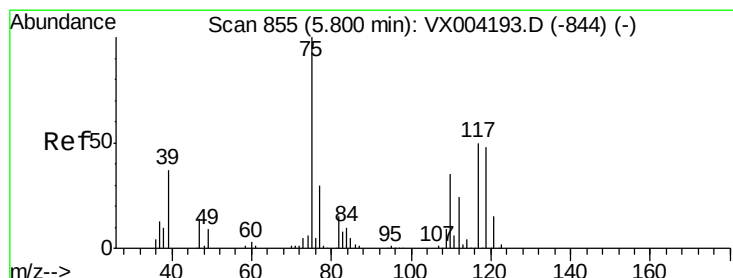
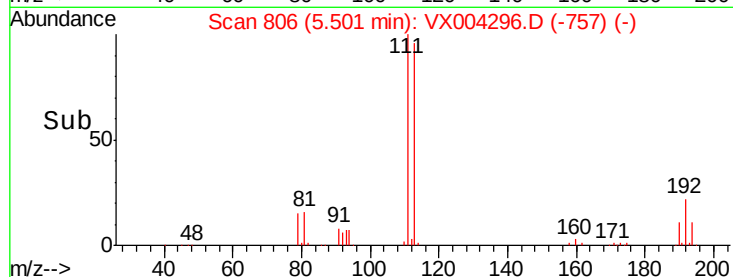
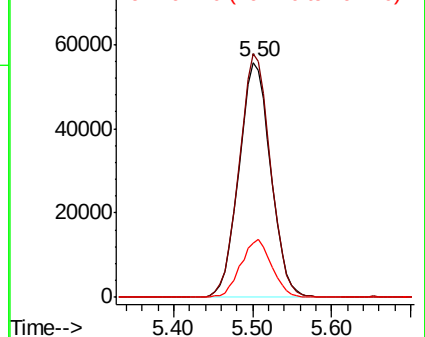
113 100

111 102.5 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: 3.75 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

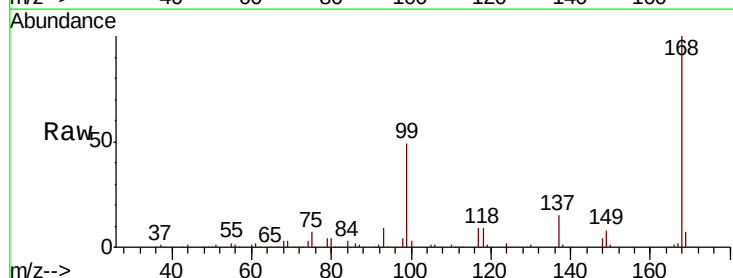
Tgt Ion: 75 Resp: 16486

Ion Ratio Lower Upper

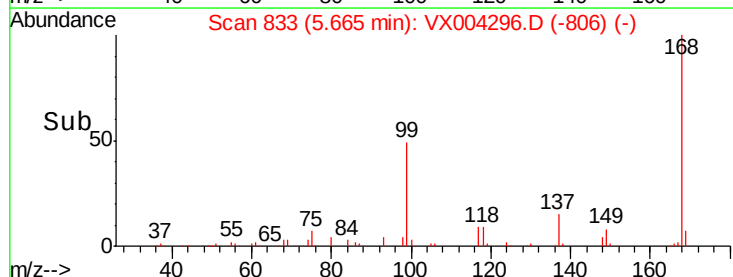
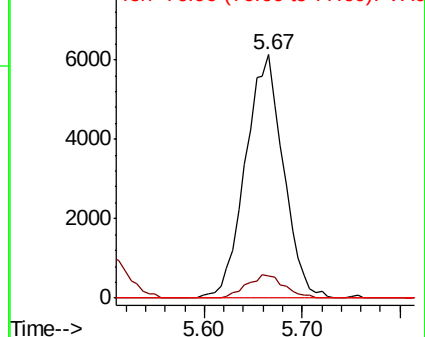
75 100

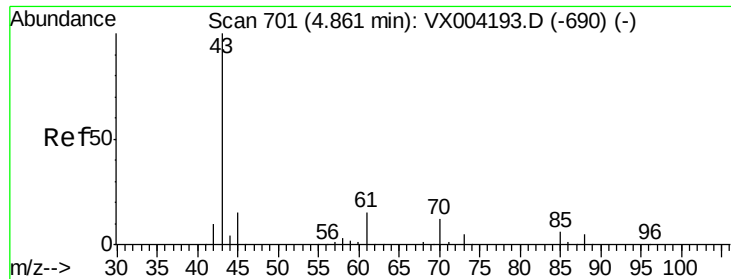
110 9.5 18.0 54.0#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.57 ug/l

RT: 4.87 min Scan# 702

Delta R.T. 0.01 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW05D-M12W4-082318

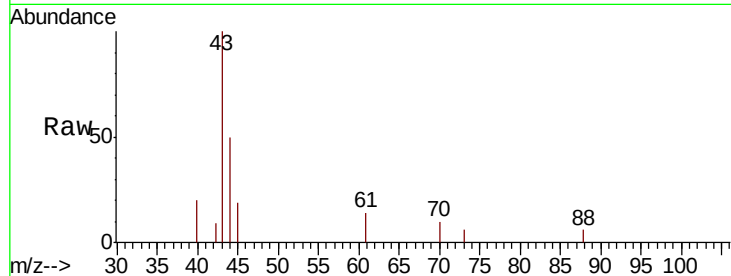
Tot Ion: 43 Resp: 2474

Ion Ratio Lower Upper

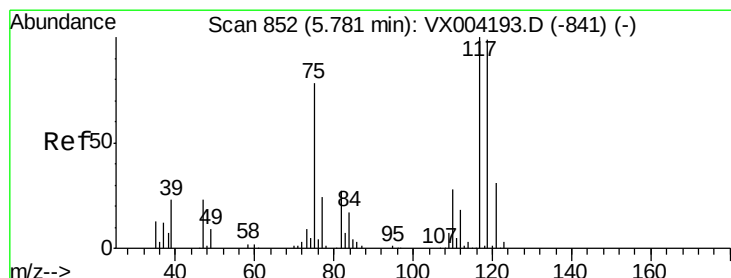
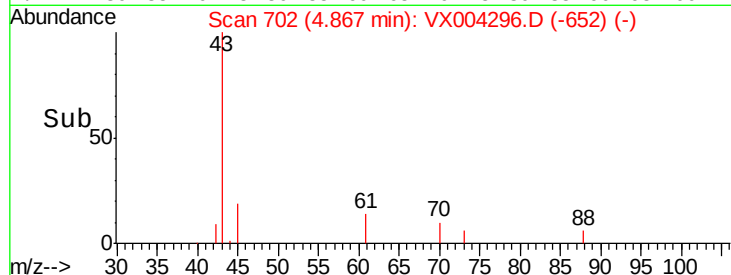
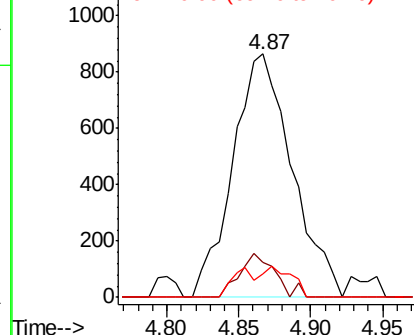
43 100

61 0.0 11.5 17.3#

70 6.3 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: 5.25 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

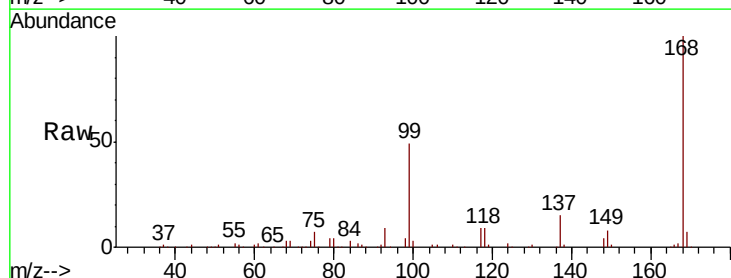
Tgt Ion: 117 Resp: 21700

Ion Ratio Lower Upper

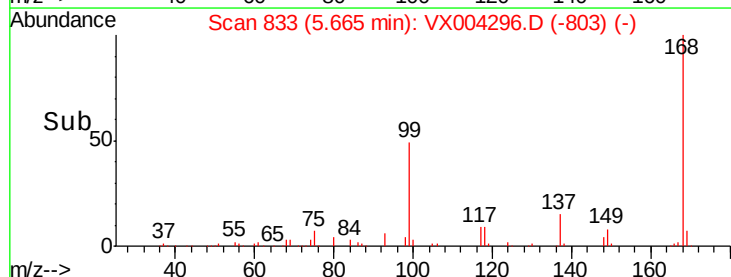
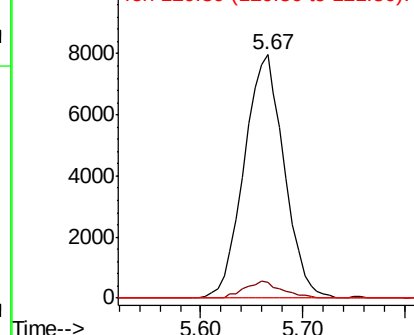
117 100

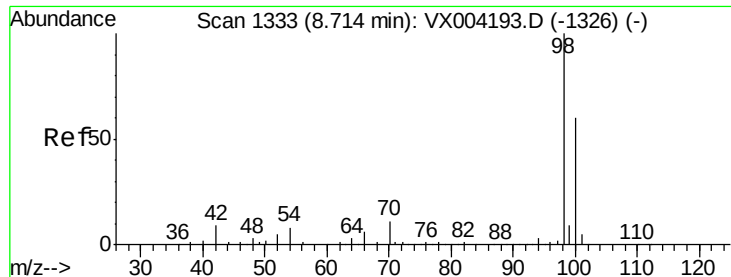
119 6.6 78.8 118.2#

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

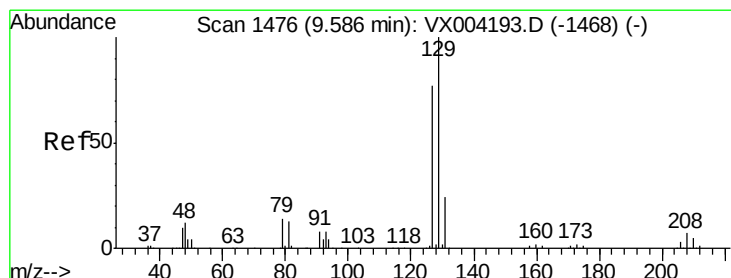
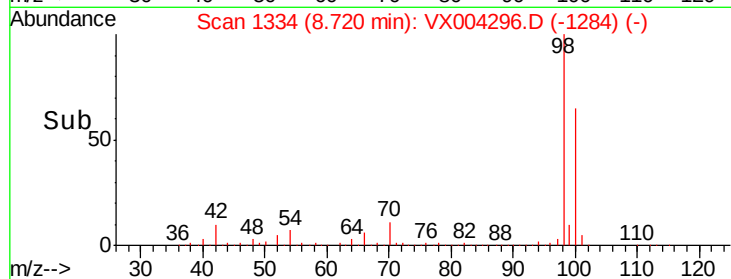
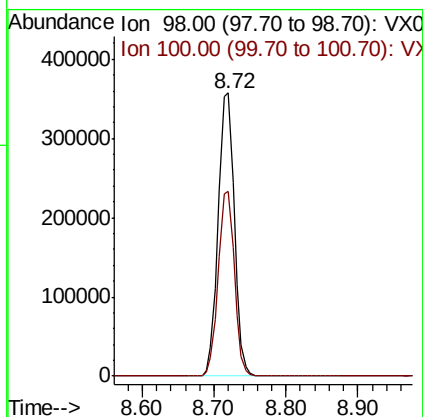
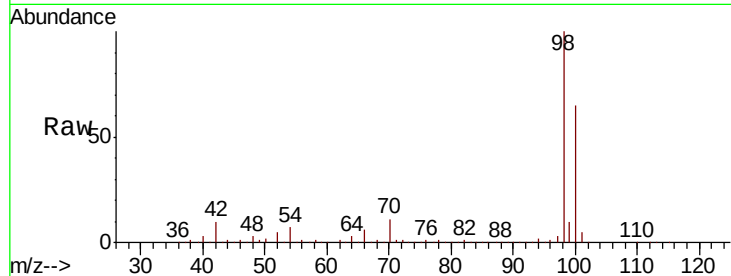




#50
Toluene-d8
Concen: 50.82 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.01 min
Lab File: VX004296.D
Acq: 29 Aug 2018 16:44

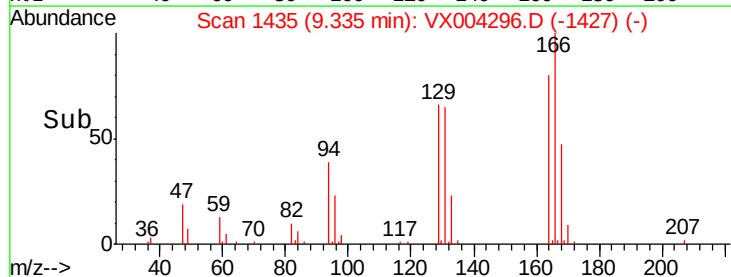
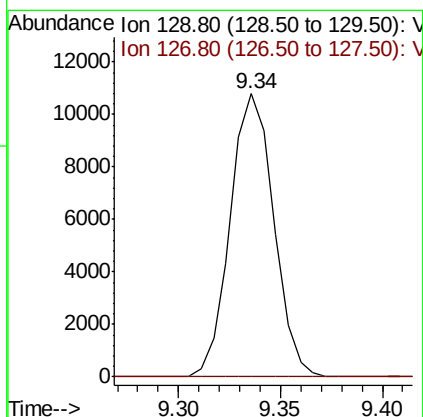
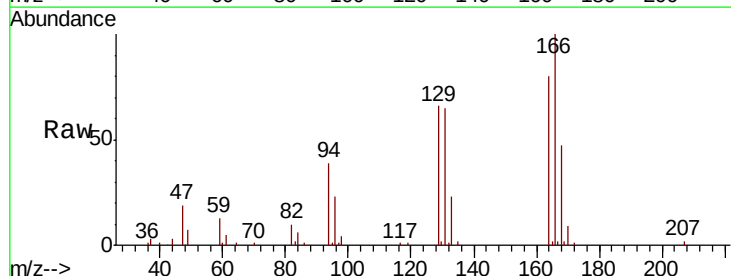
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW05D-M12W4-082318

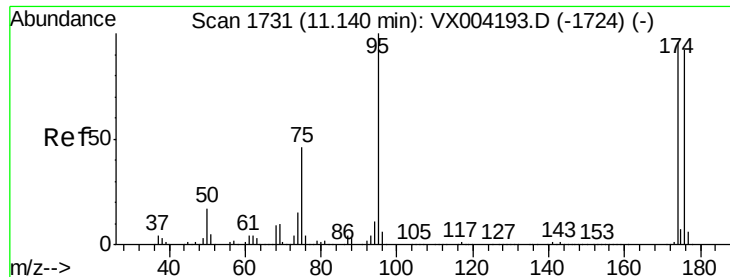
Tot Ion: 98 Resp: 557330
Ion Ratio Lower Upper
98 100
100 65.2 52.9 79.3



#60
Dibromochloromethane
Concen: 4.94 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX004296.D
Acq: 29 Aug 2018 16:44

Tgt Ion: 129 Resp: 15952
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#

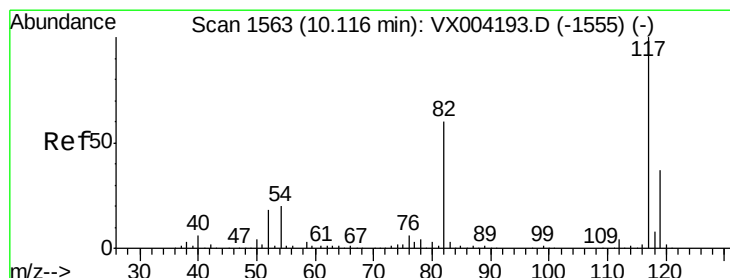
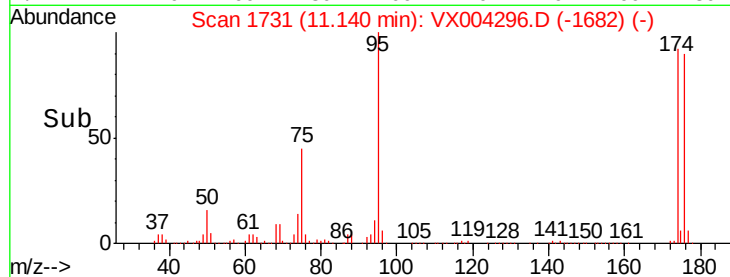
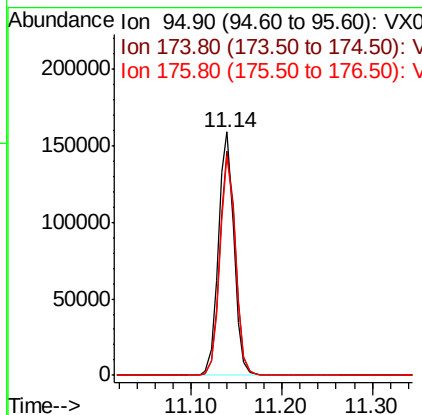
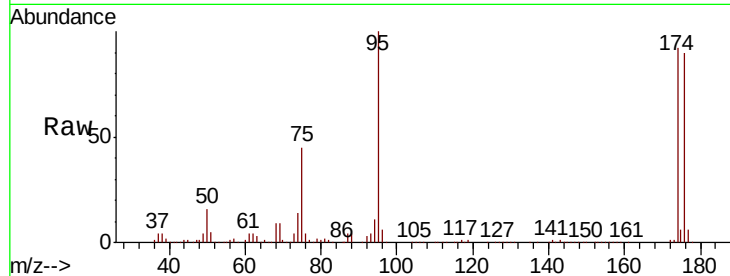




#62
4-Bromofluorobenzene
Concen: 46.63 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004296.D
Acq: 29 Aug 2018 16:44

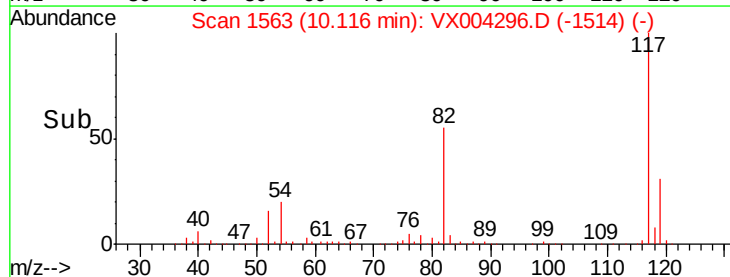
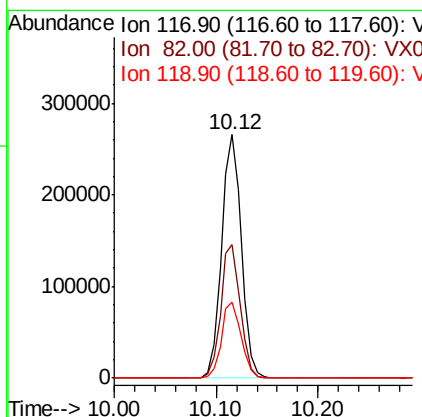
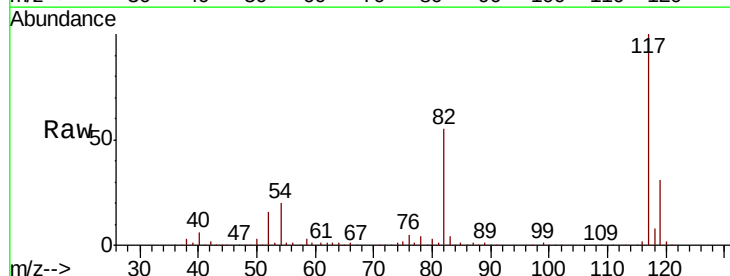
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW05D-M12W4-082318

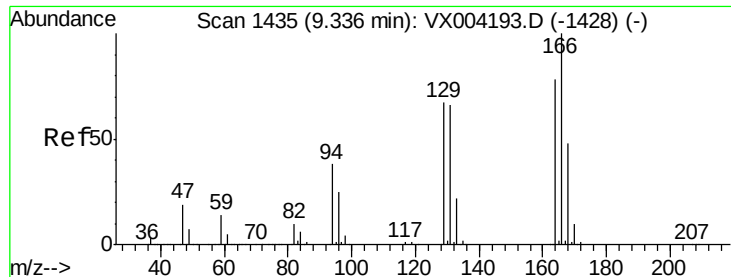
Tot Ion: 95 Resp: 190812
Ion Ratio Lower Upper
95 100
174 93.3 0.0 185.2
176 89.9 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004296.D
Acq: 29 Aug 2018 16:44

Tgt Ion: 117 Resp: 357479
Ion Ratio Lower Upper
117 100
82 54.8 47.8 71.6
119 31.3 29.3 43.9





#64

Tetrachloroethene

Concen: 5.22 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW05D-M12W4-082318

Tot Ion:164 Resp: 18435

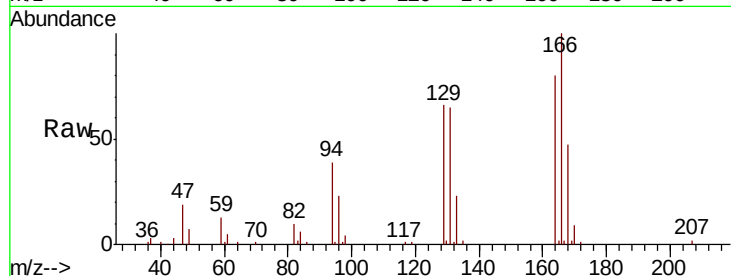
Ion Ratio Lower Upper

164 100

166 124.5 102.8 154.2

129 82.1 69.4 104.0

131 80.3 67.9 101.9

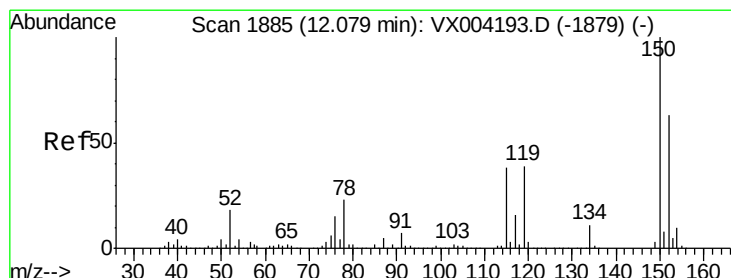
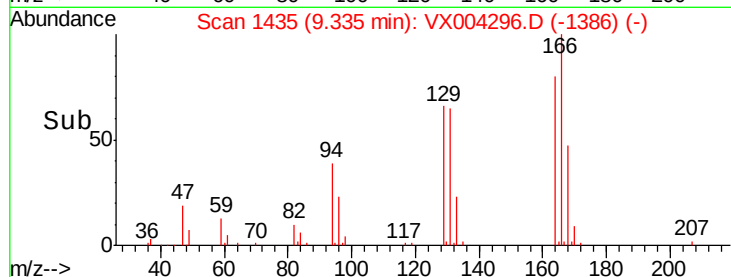
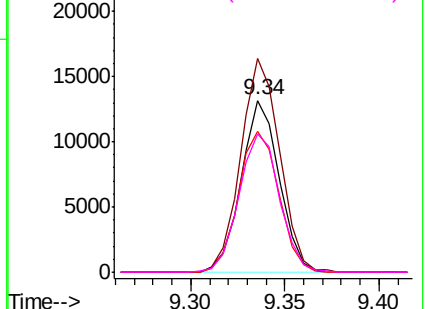


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX004296.D

Acq: 29 Aug 2018 16:44

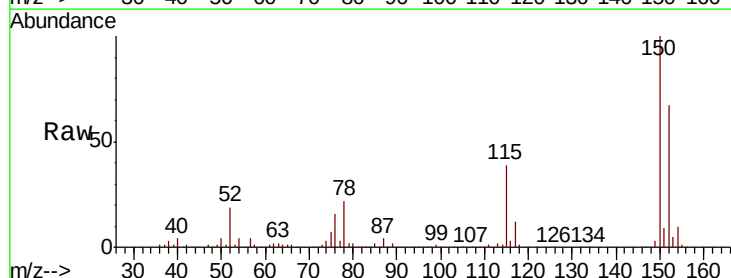
Tgt Ion:152 Resp: 190075

Ion Ratio Lower Upper

152 100

115 54.2 39.0 117.0

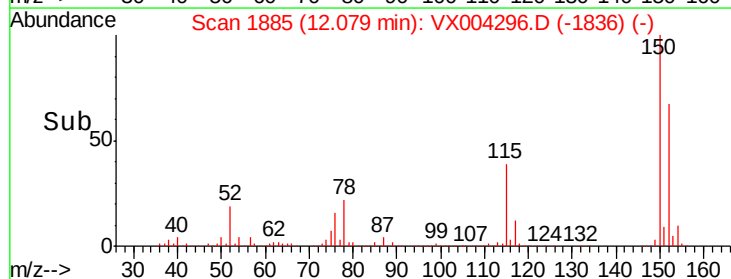
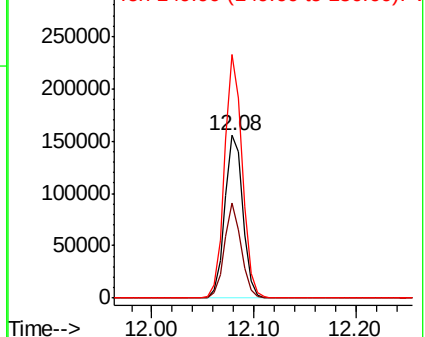
150 146.8 0.0 351.0

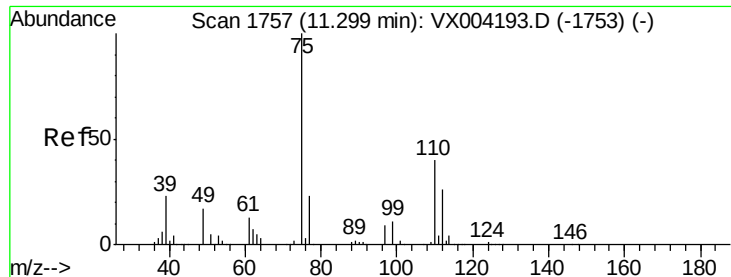


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

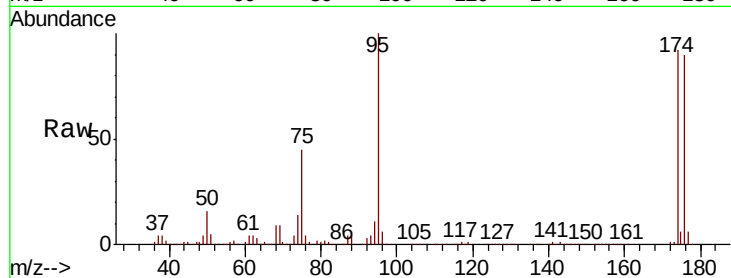
CPA-CPMW05D-M12W4-082318

Tot Ion: 75 Resp: 89464

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

11.14

80000

60000

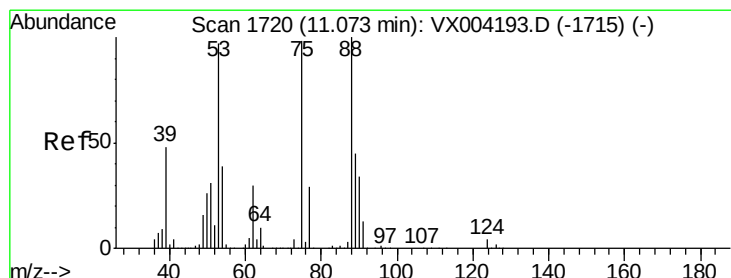
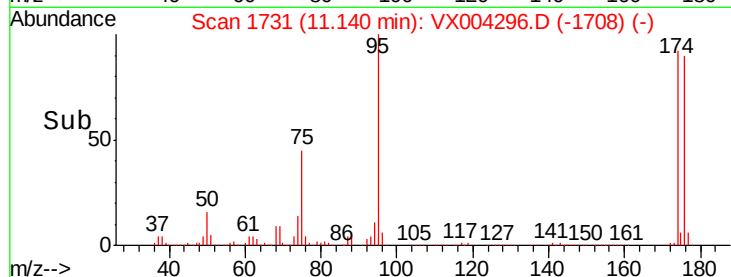
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 75.09 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004296.D

Acq: 29 Aug 2018 16:44

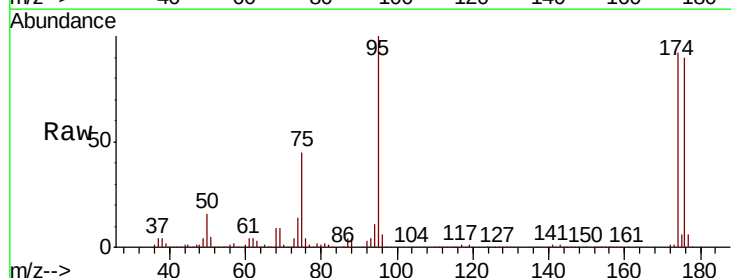
Tgt Ion: 75 Resp: 89464

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

100000

80000

60000

40000

20000

0

Time-->

11.10 11.20

