

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008082.D
 Acq On : 14 Mar 2019 21:07
 Operator : JC/SP
 Sample : K1829-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW02D-M20W2-030419-D

Quant Time: Mar 15 04:28:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	319471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	488783	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	462209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	226059	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	156733	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
35) Dibromofluoromethane	5.51	113	153424	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
50) Toluene-d8	8.71	98	584196	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
62) 4-Bromofluorobenzene	11.13	95	214662	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	

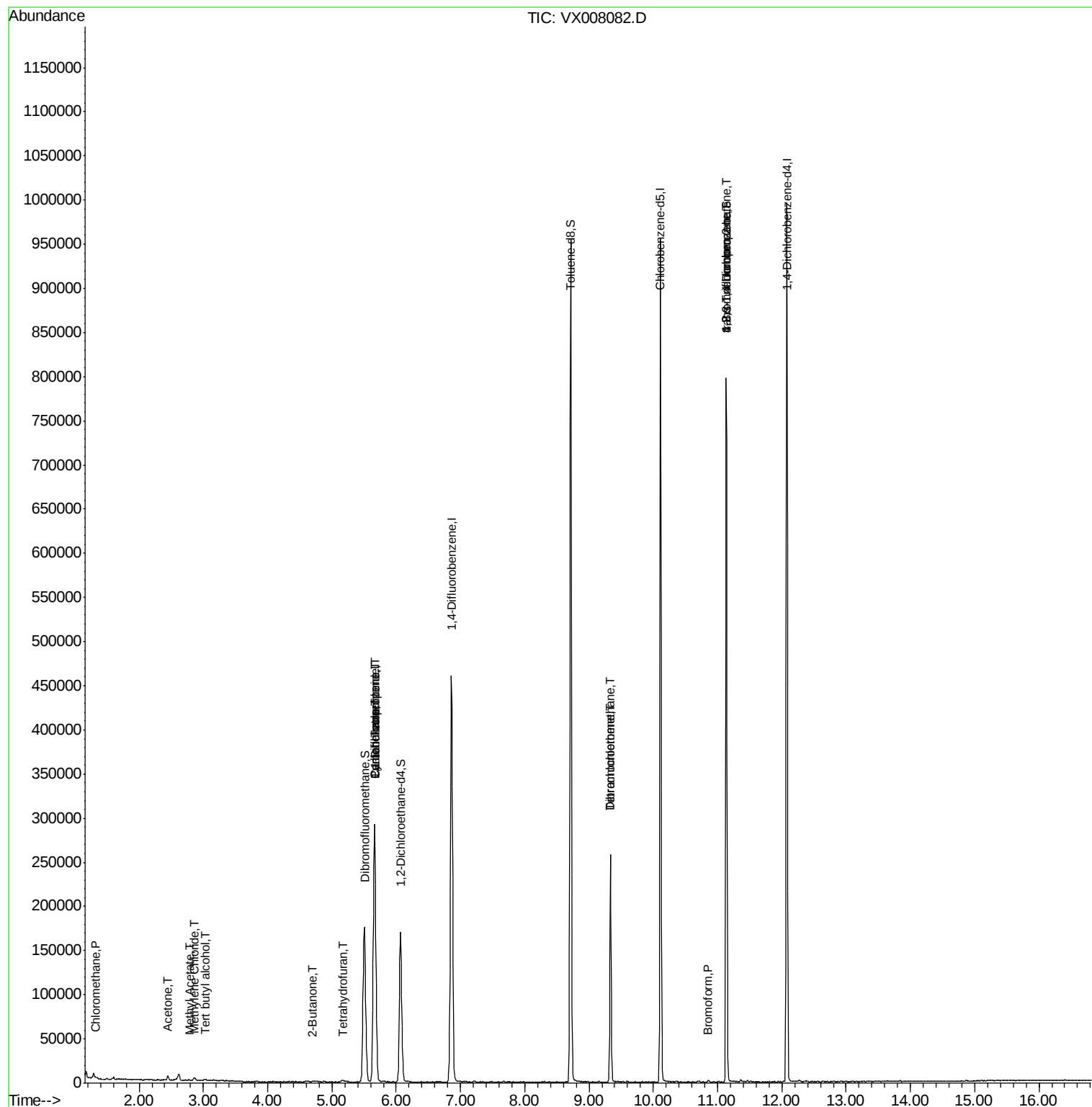
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	604	0.201	ug/l	97
5) Bromomethane	1.66	94	477	Below Cal	#	53
11) Tert butyl alcohol	3.02	59	1389	2.231	ug/l #	73
16) Acetone	2.45	43	5166	3.396	ug/l	98
18) Methyl Acetate	2.79	43	812	0.247	ug/l #	80
20) Methylene Chloride	2.86	84	1196	0.440	ug/l #	76
25) 2-Butanone	4.70	43	596	0.255	ug/l #	50
29) Tetrahydrofuran	5.16	42	1671	1.146	ug/l	99
31) Cyclohexane	5.67	56	4477	0.972	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18263	4.542	ug/l #	49
38) Carbon Tetrachloride	5.67	117	26081	6.738	ug/l #	17
60) Dibromochloromethane	9.34	129	49106	14.944	ug/l #	11
64) Tetrachloroethene	9.34	164	55584	14.842	ug/l	97
71) Bromoform	10.85	173	677	0.251	ug/l #	92
76) 1,2,3-Trichloropropane	11.13	75	95074	24.217	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	95074	68.912	ug/l #	11

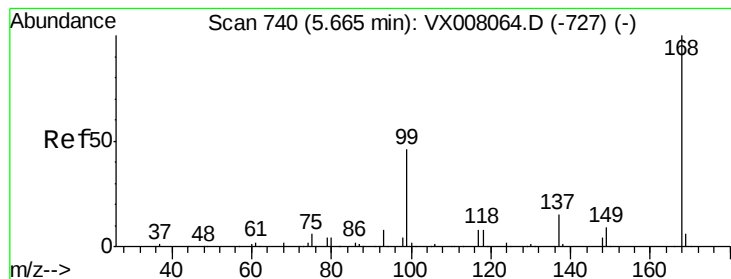
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

Instrument :

MSVOA_X

ClientSampleId :

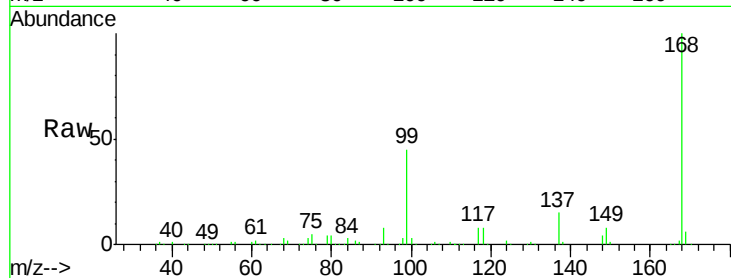
CPA-CPMW02D-M20W2-030419-D

Tot Ion:168 Resp: 319471

Ion Ratio Lower Upper

168 100

99 45.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

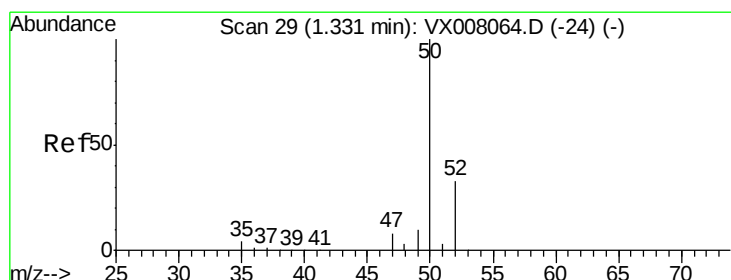
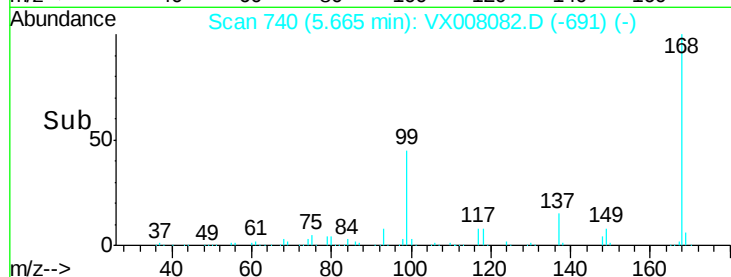
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX008082.D

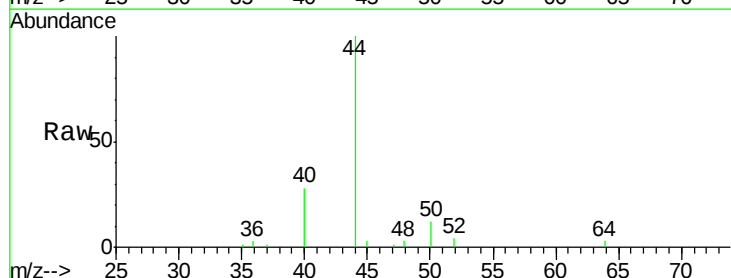
Acq: 14 Mar 2019 21:07

Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

50 100

52 35.0 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

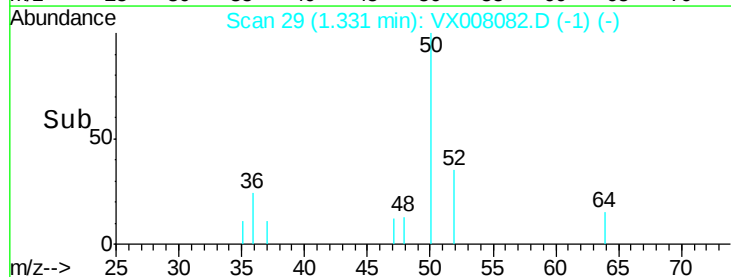
300

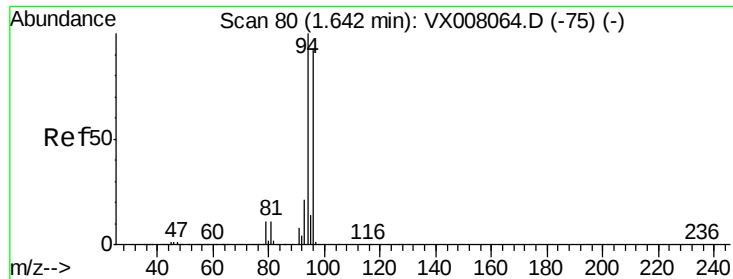
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

Instrument :

MSVOA_X

ClientSampleId :

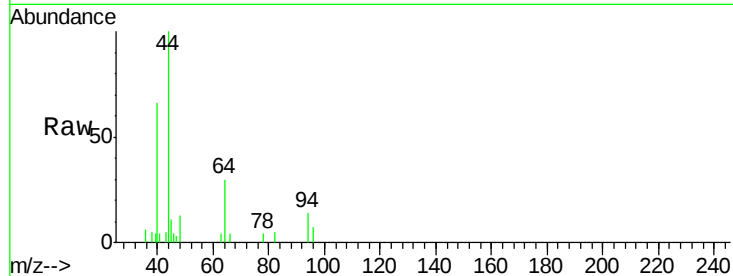
CPA-CPMW02D-M20W2-030419-D

Tot Ion: 94 Resp: 477

Ion Ratio Lower Upper

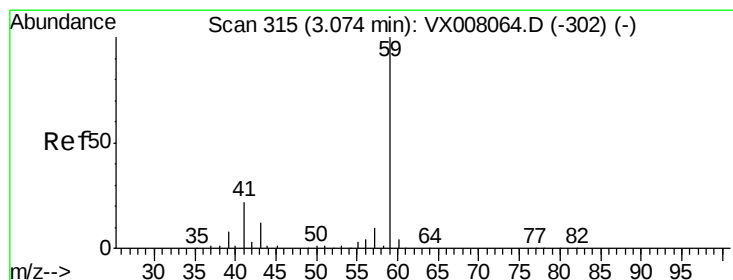
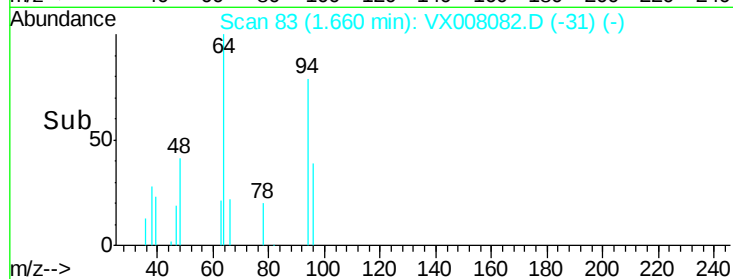
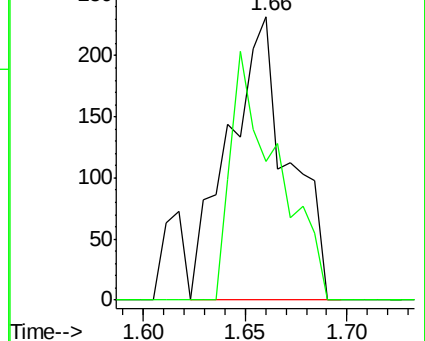
94 100

96 49.1 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 2.231 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX008082.D

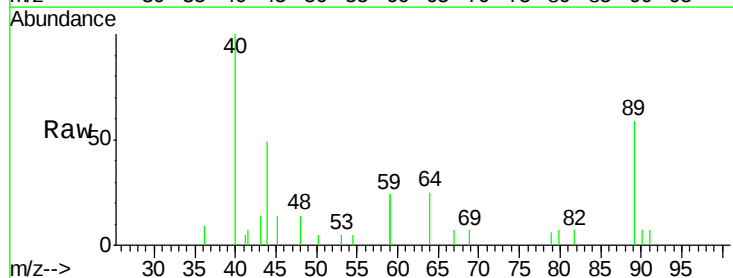
Acq: 14 Mar 2019 21:07

Tgt Ion: 59 Resp: 1389

Ion Ratio Lower Upper

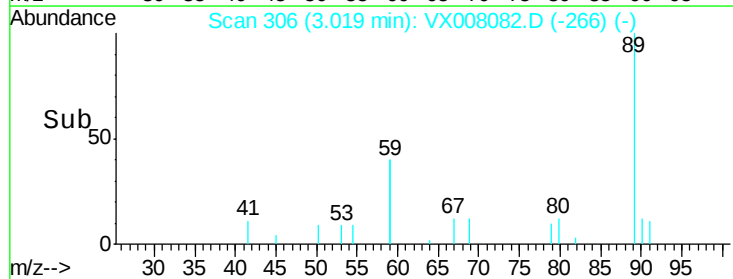
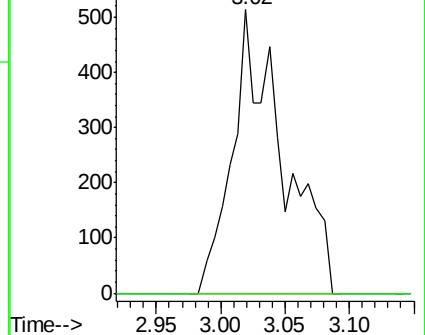
59 100

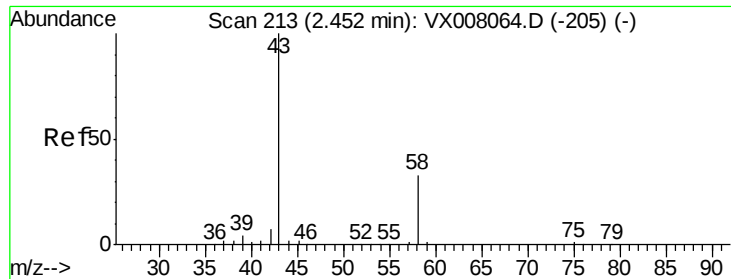
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 3.396 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

Instrument :

MSVOA_X

ClientSampleId :

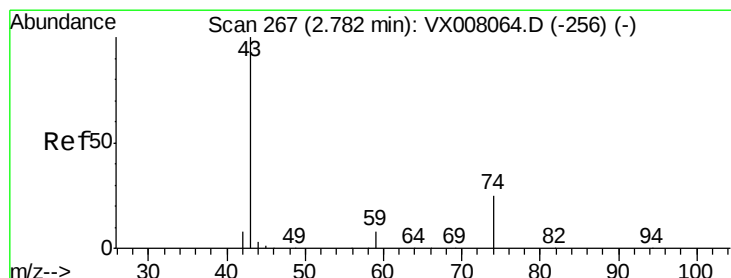
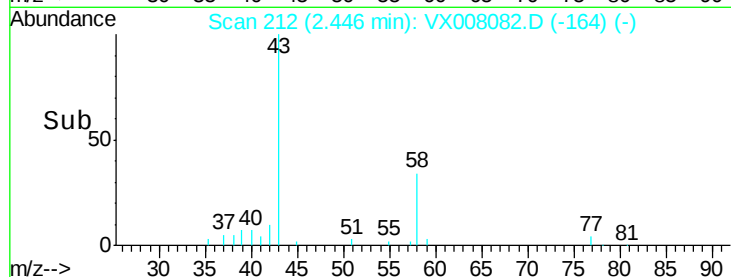
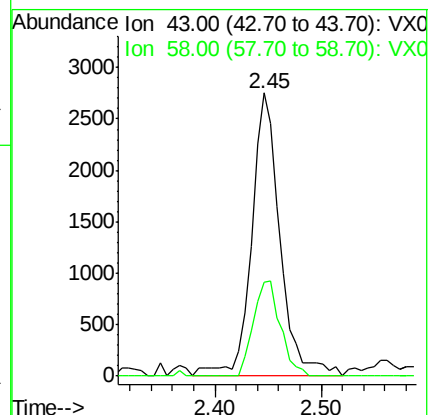
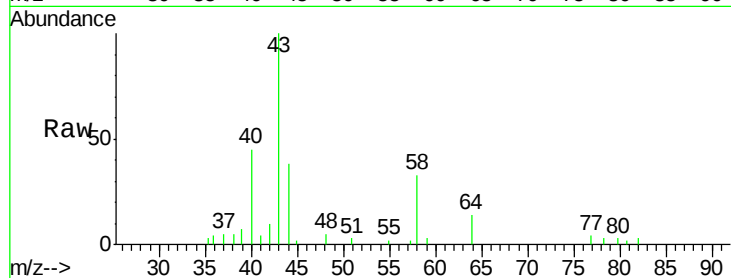
CPA-CPMW02D-M20W2-030419-D

Tot Ion: 43 Resp: 5166

Ion Ratio Lower Upper

43 100

58 33.2 25.5 38.3



#18

Methyl Acetate

Concen: 0.247 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX008082.D

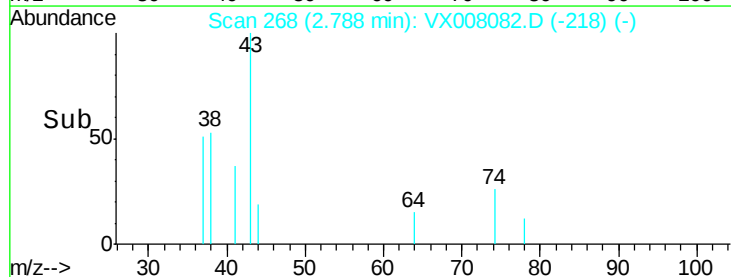
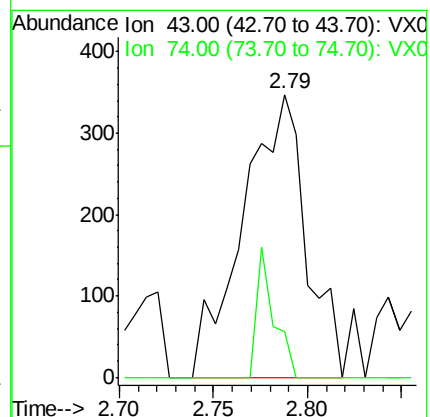
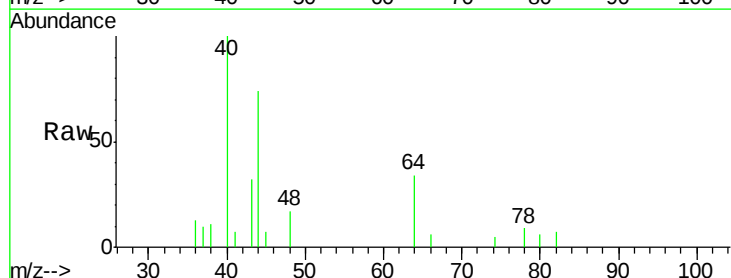
Acq: 14 Mar 2019 21:07

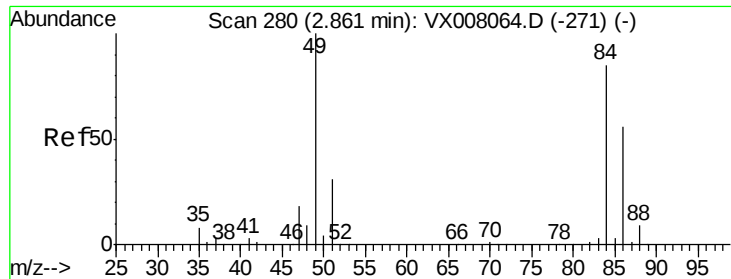
Tgt Ion: 43 Resp: 812

Ion Ratio Lower Upper

43 100

74 12.6 17.8 26.6#

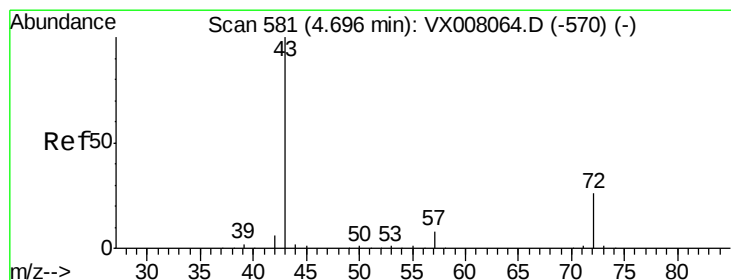
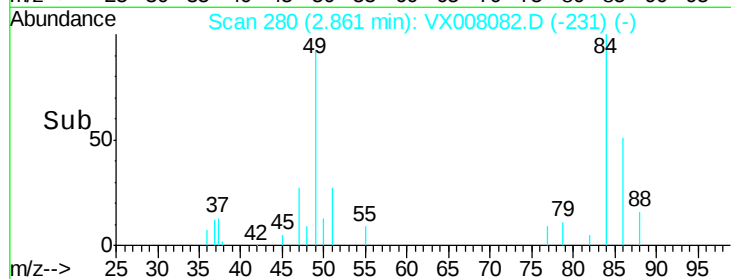
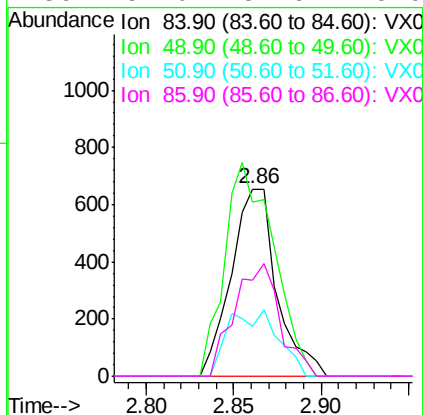
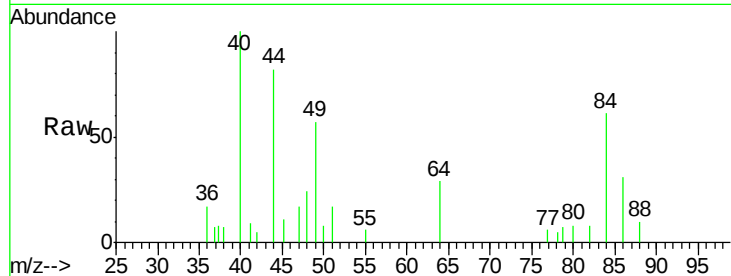




#20
Methvlene Chloride
Concen: 0.440 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX008082.D
Acq: 14 Mar 2019 21:07

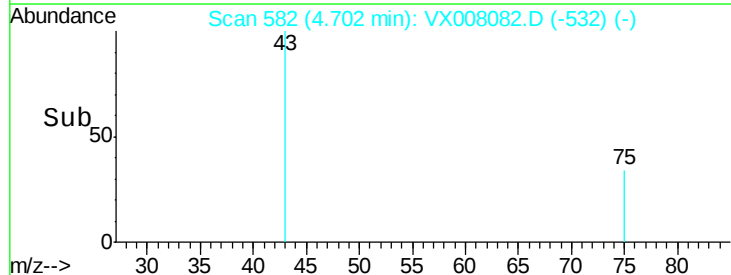
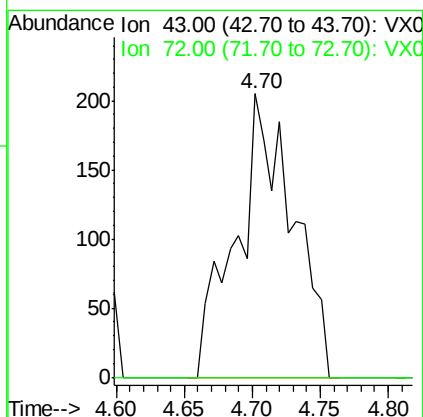
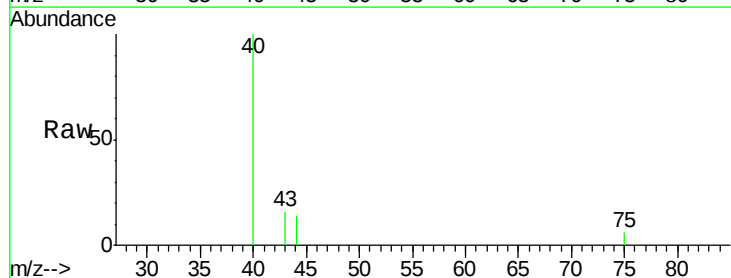
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW02D-M20W2-030419-D

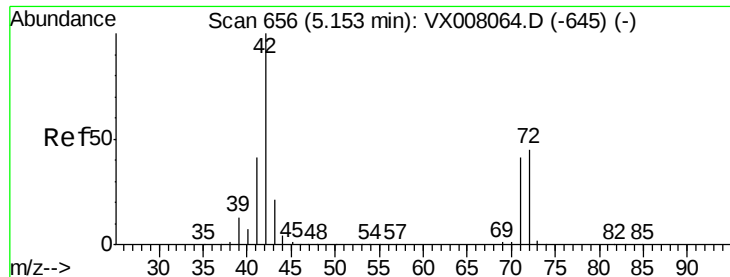
Tot Ion: 84 Resp: 1196
Ion Ratio Lower Upper
84 100
49 93.1 99.3 148.9#
51 27.0 31.3 46.9#
86 51.0 52.6 79.0#



#25
2-Butanone
Concen: 0.255 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX008082.D
Acq: 14 Mar 2019 21:07

Tgt Ion: 43 Resp: 596
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

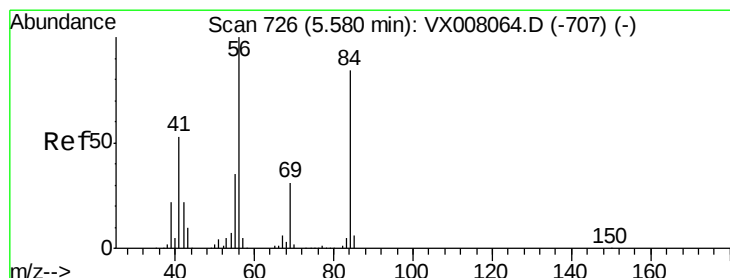
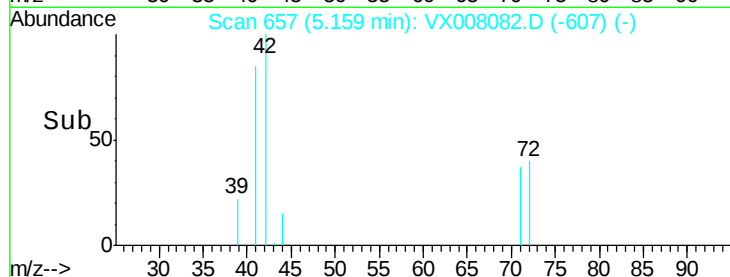
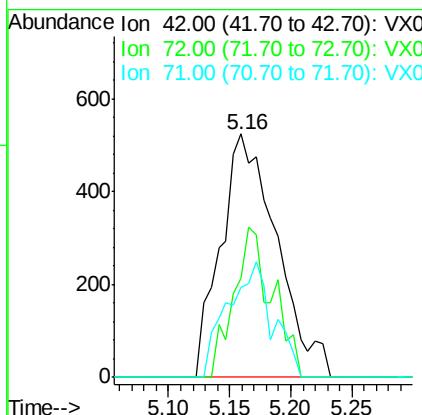
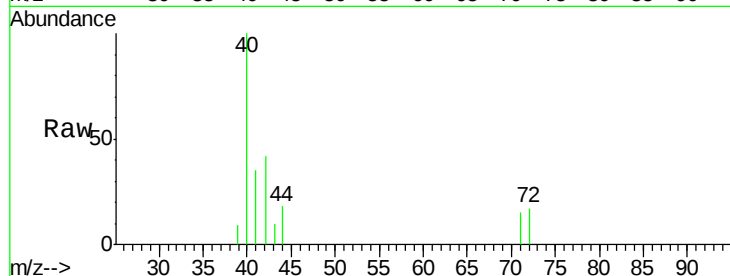




#29
Tetrahydrofuran
Concen: 1.146 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX008082.D
Acq: 14 Mar 2019 21:07

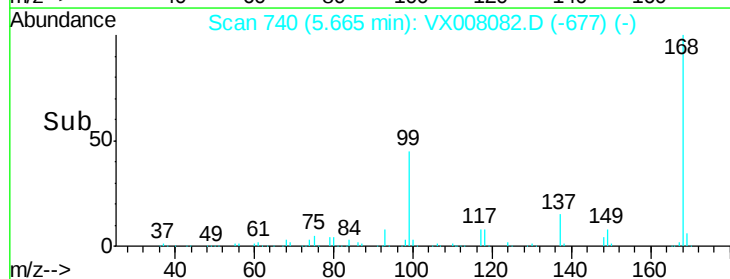
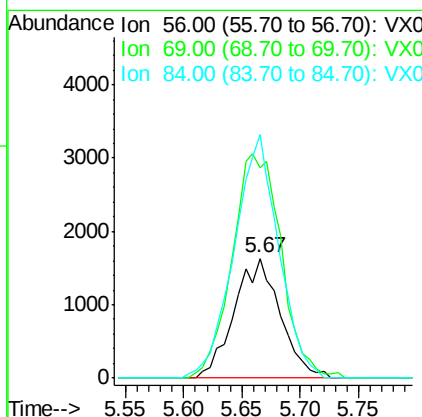
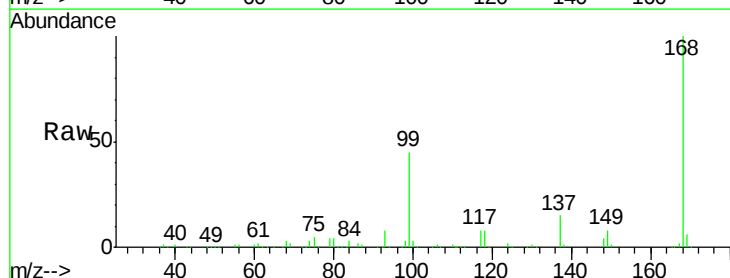
Instrument :
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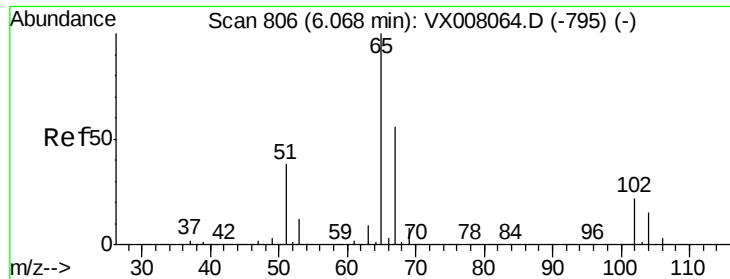
Tot Ion: 42 Resp: 1671
Ion Ratio Lower Upper
42 100
72 42.0 33.8 50.6
71 38.2 31.5 47.3



#31
Cyclohexane
Concen: 0.972 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008082.D
Acq: 14 Mar 2019 21:07

Tgt Ion: 56 Resp: 4477
Ion Ratio Lower Upper
56 100
69 176.3 24.0 36.0#
84 203.7 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 48.635 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

Instrument :

MSVOA_X

ClientSampleId :

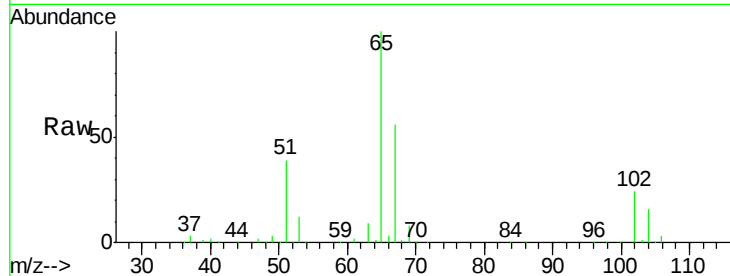
CPA-CPMW02D-M20W2-030419-D

Tot Ion: 65 Resp: 156733

Ion Ratio Lower Upper

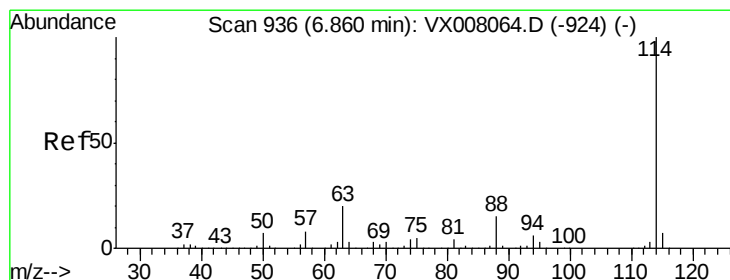
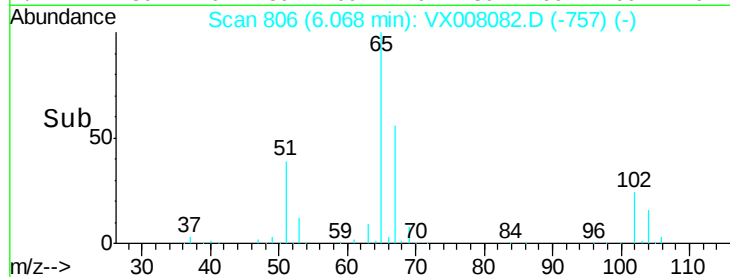
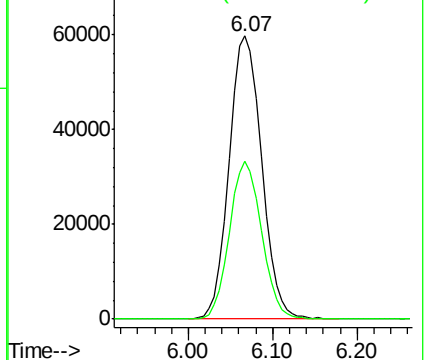
65 100

67 55.2 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

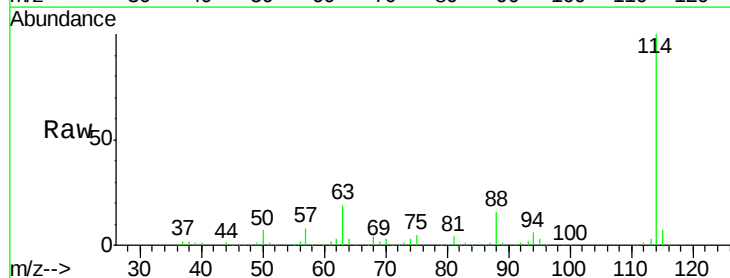
Tgt Ion: 114 Resp: 488783

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.8

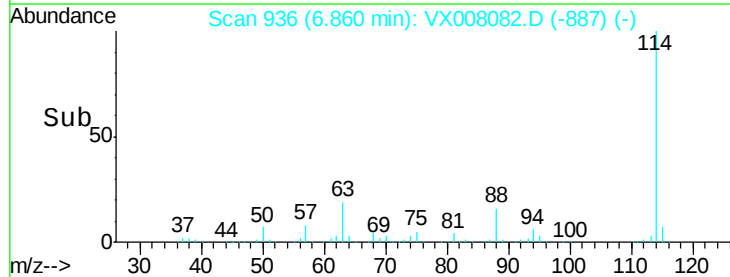
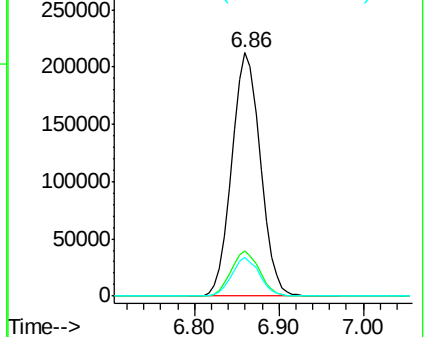
88 15.7 0.0 31.4

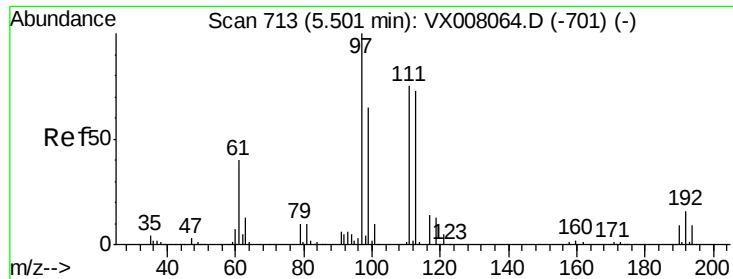


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

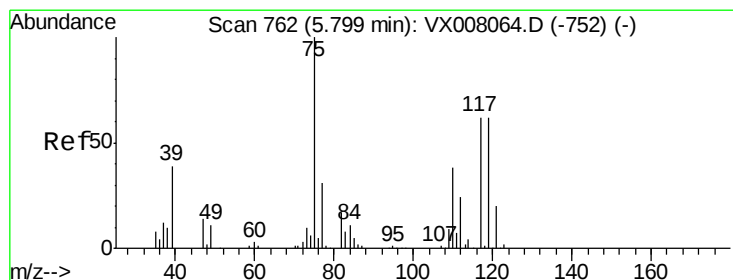
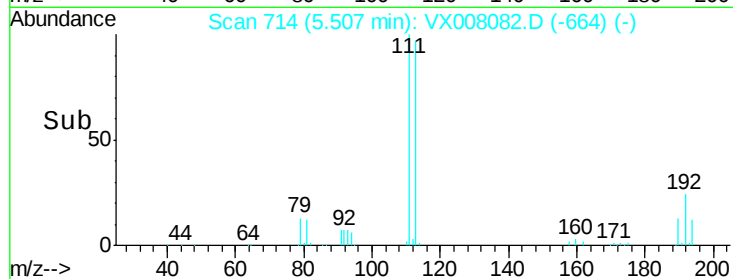
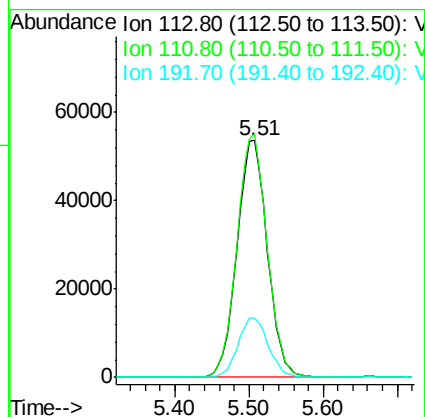
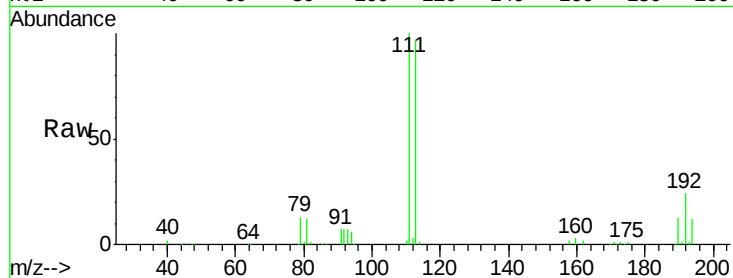




#35
 Dibromofluoromethane
 Concen: 49.498 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX008082.D
 Acq: 14 Mar 2019 21:07

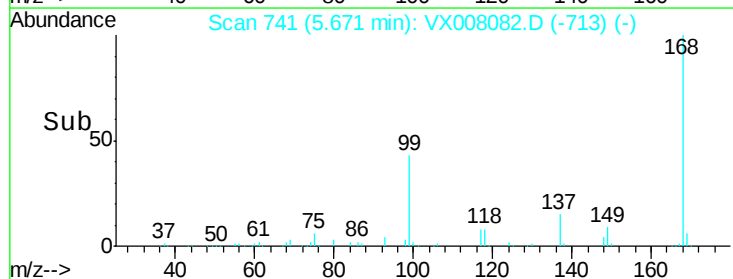
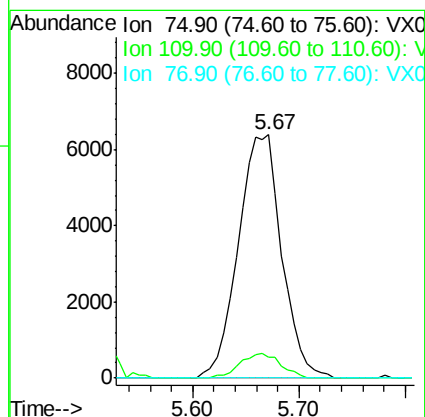
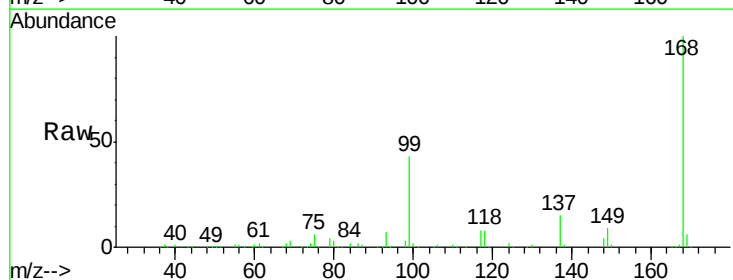
Instrument :
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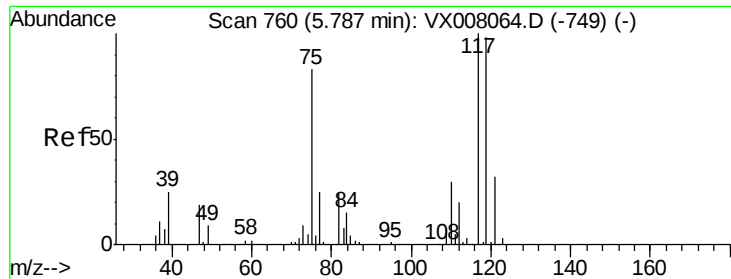
Tot Ion:113 Resp: 153424
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.4 122.0
 192 25.0 19.4 29.0



#36
 1,1-Dichloropropene
 Concen: 4.542 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.13 min
 Lab File: VX008082.D
 Acq: 14 Mar 2019 21:07

Tgt Ion: 75 Resp: 18263
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.4 55.0#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.738 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW02D-M20W2-030419-D

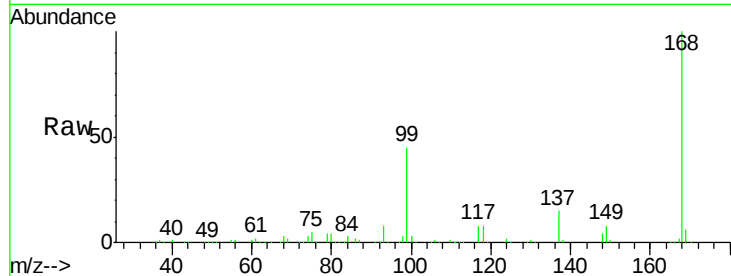
Tot Ion:117 Resp: 26081

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.2#

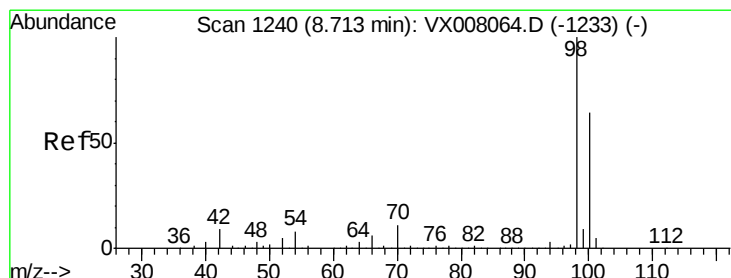
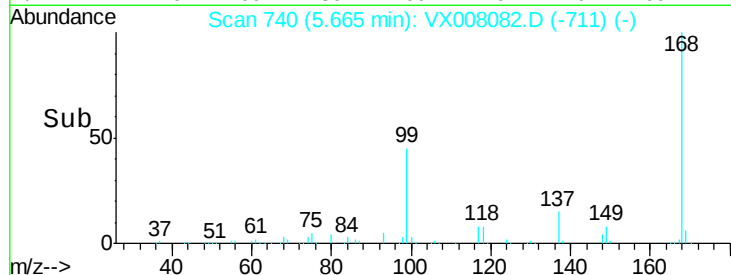
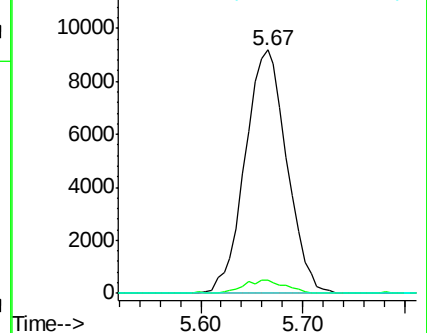
121 0.0 24.6 36.8#



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: 49.556 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008082.D

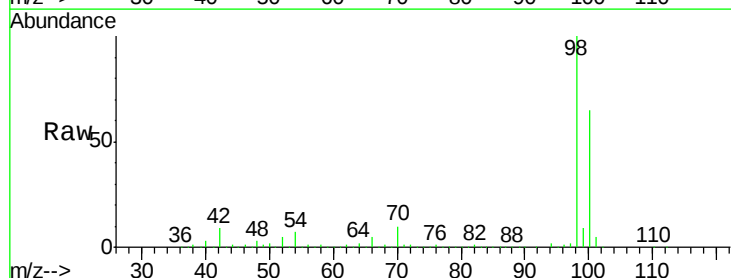
Acq: 14 Mar 2019 21:07

Tgt Ion: 98 Resp: 584196

Ion Ratio Lower Upper

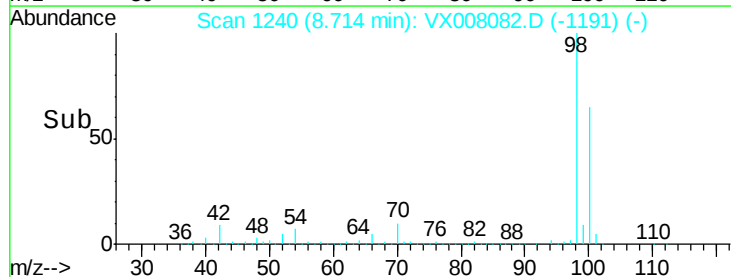
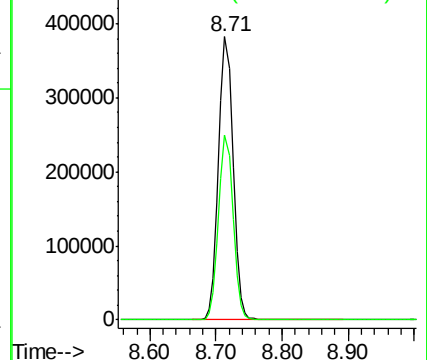
98 100

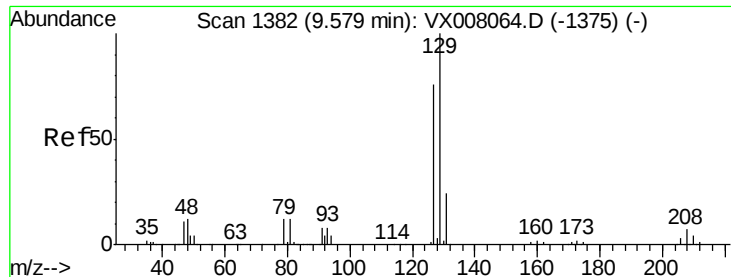
100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 14.944 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

Instrument :

MSVOA_X

ClientSampleId :

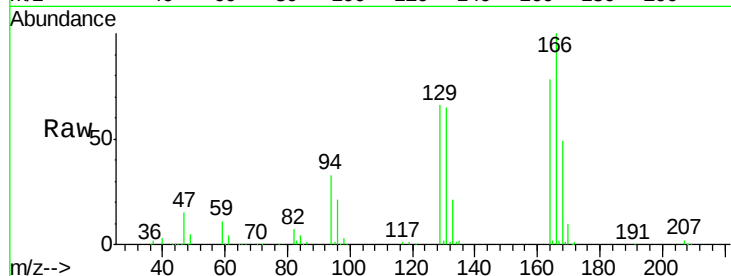
CPA-CPMW02D-M20W2-030419-D

Tot Ion:129 Resp: 49106

Ion Ratio Lower Upper

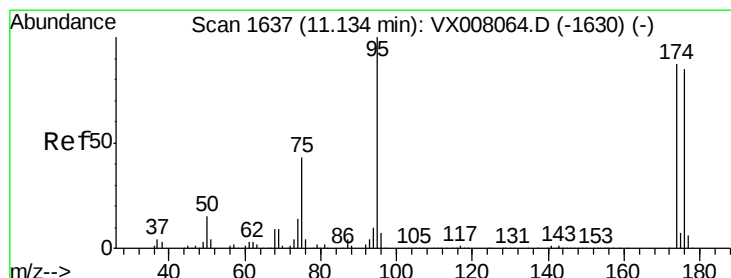
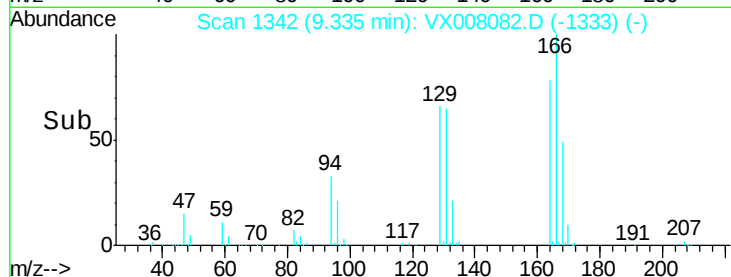
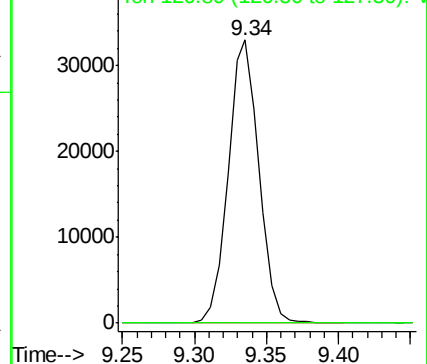
129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 50.830 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

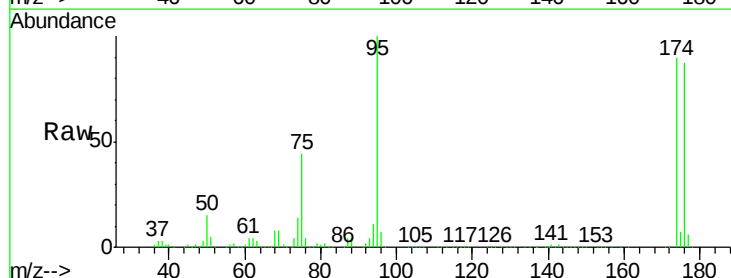
Tgt Ion: 95 Resp: 214662

Ion Ratio Lower Upper

95 100

174 94.3 0.0 182.8

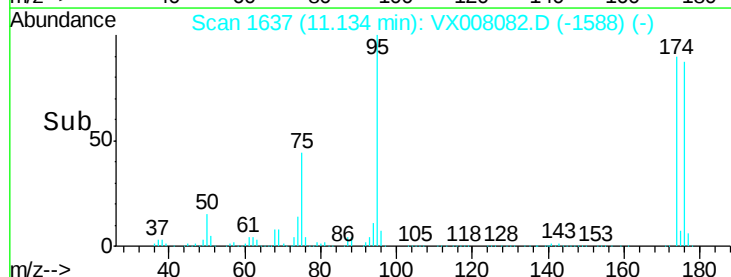
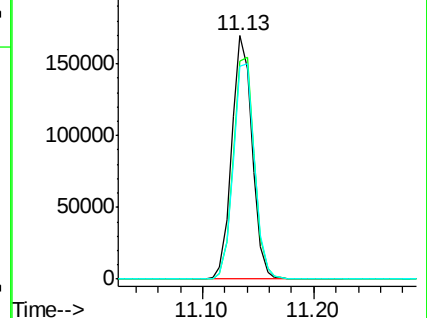
176 92.1 0.0 178.0

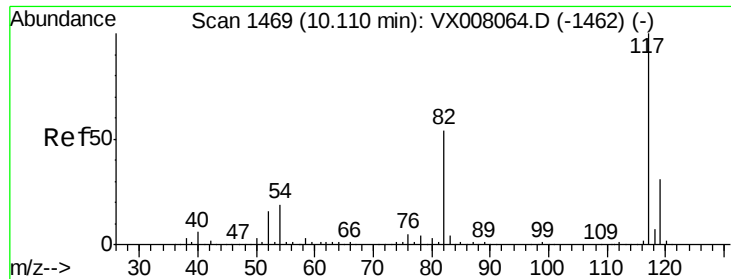


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

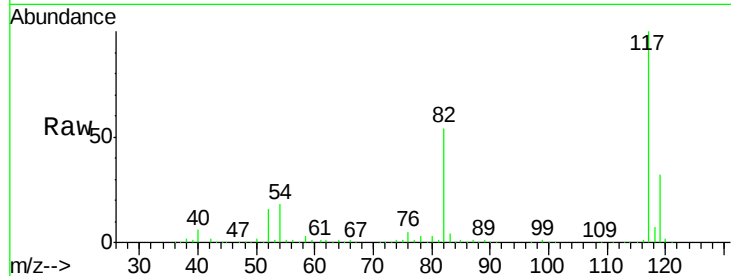




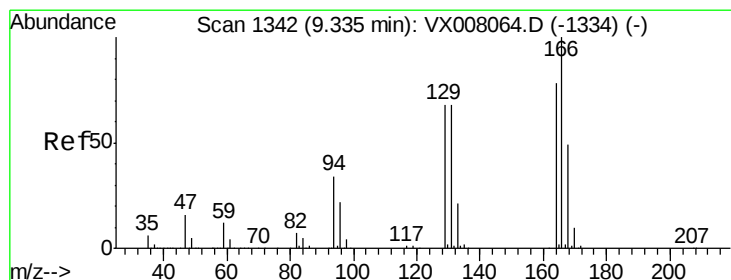
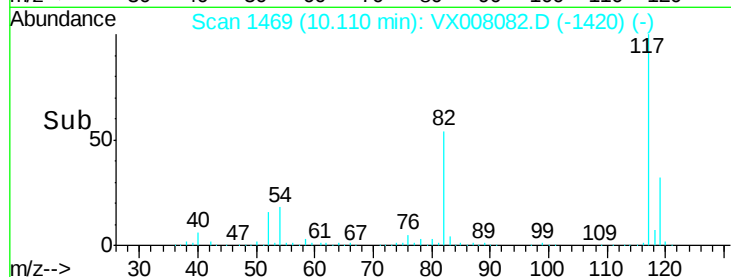
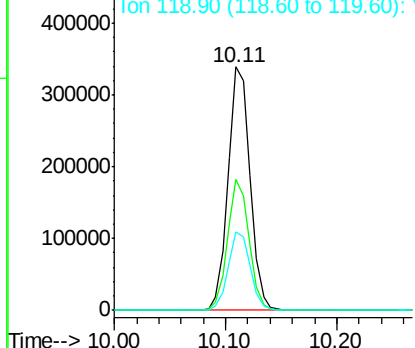
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008082.D
Acq: 14 Mar 2019 21:07

Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW02D-M20W2-030419-D

Tot Ion:117 Resp: 462209
Ion Ratio Lower Upper
117 100
82 54.0 44.3 66.5
119 32.5 25.3 37.9



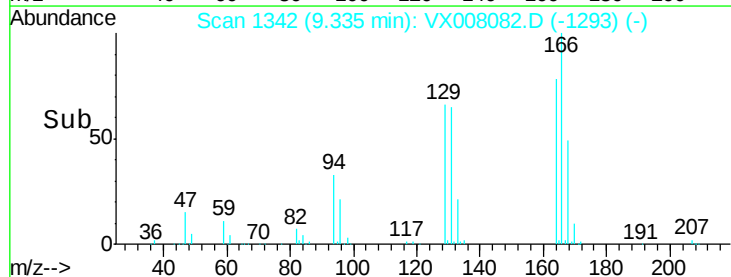
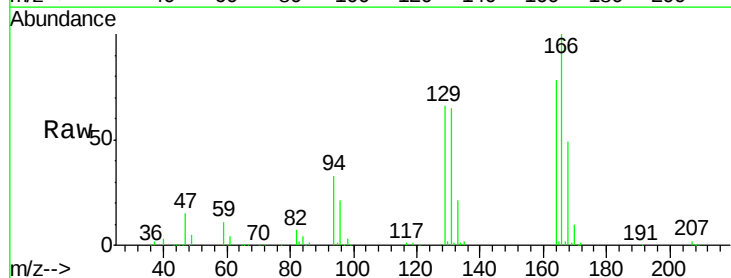
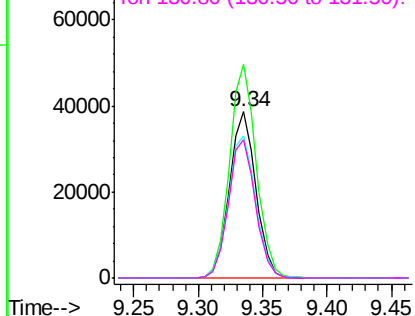
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

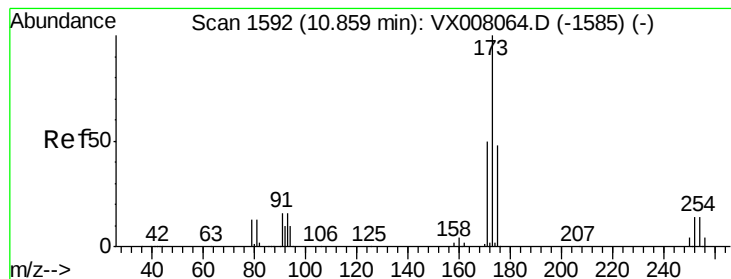


#64
Tetrachloroethene
Concen: 14.842 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008082.D
Acq: 14 Mar 2019 21:07

Tgt Ion:164 Resp: 55584
Ion Ratio Lower Upper
164 100
166 128.5 103.4 155.0
129 85.3 72.2 108.4
131 83.0 69.4 104.2

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





#71

Bromoform

Concen: 0.251 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.01 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW02D-M20W2-030419-D

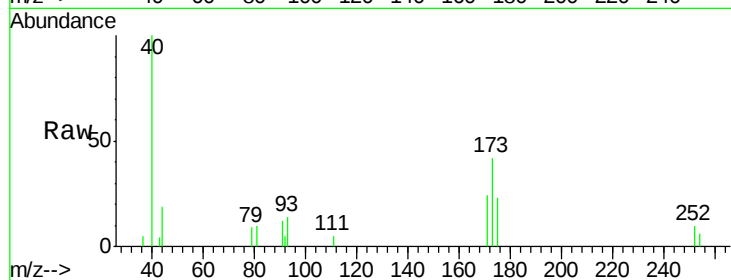
Tot Ion:173 Resp: 677

Ion Ratio Lower Upper

173 100

175 54.2 24.3 72.9

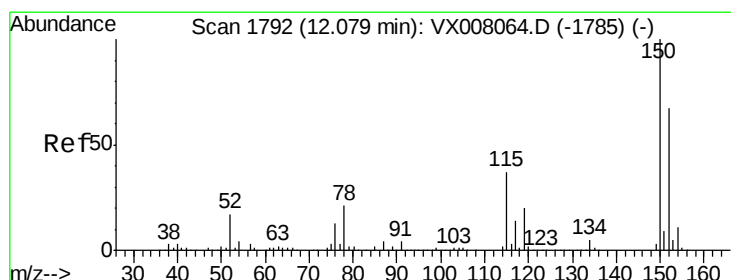
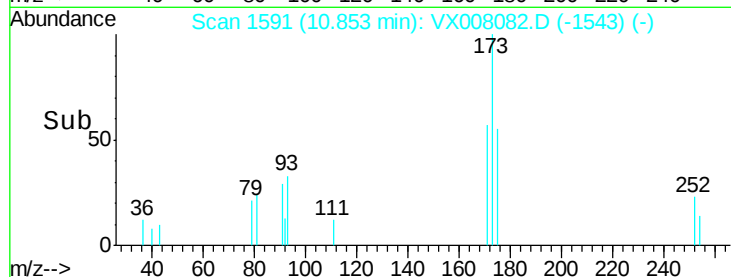
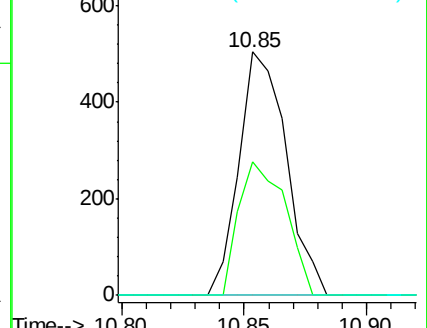
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008082.D

Acq: 14 Mar 2019 21:07

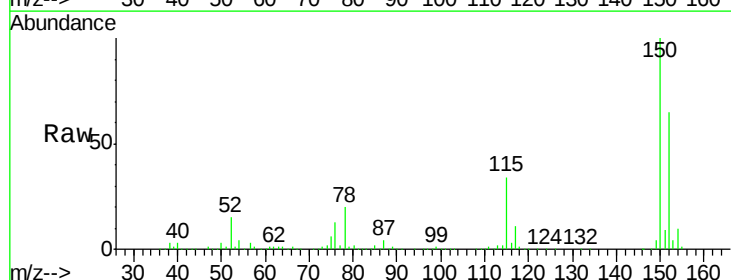
Tgt Ion:152 Resp: 226059

Ion Ratio Lower Upper

152 100

115 54.9 38.6 115.7

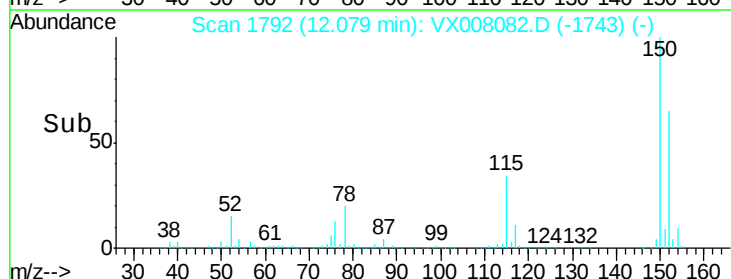
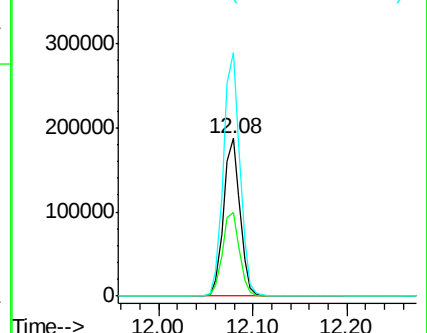
150 155.5 0.0 348.4

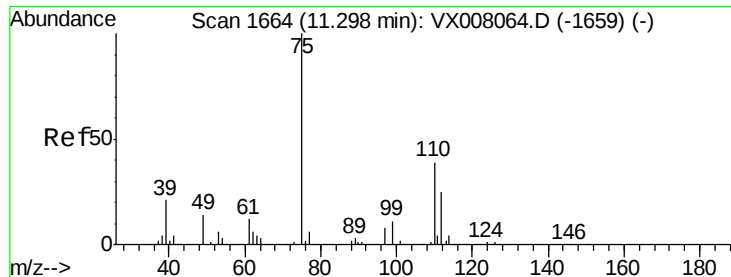


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

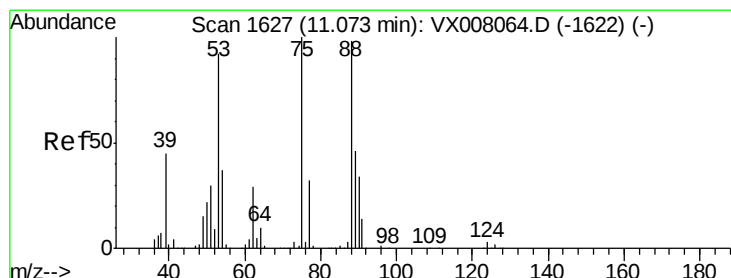
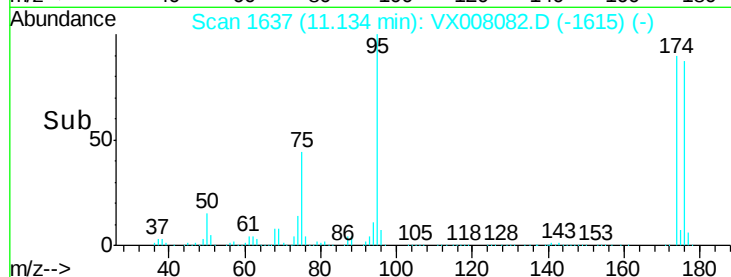
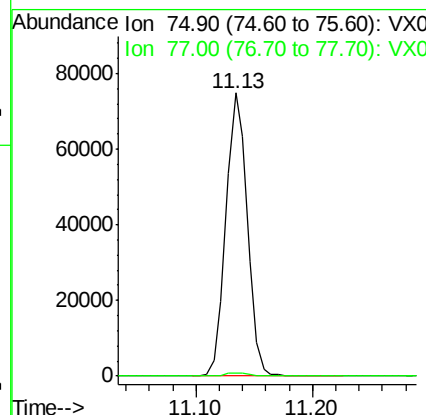
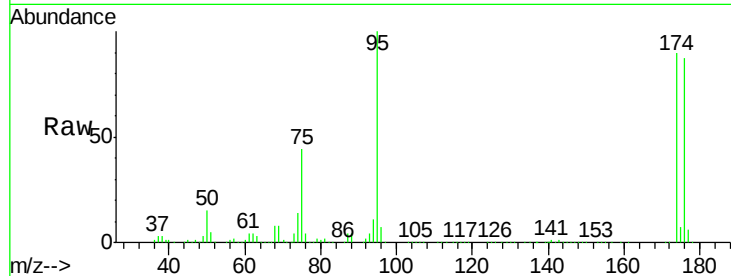




#76
 1,2,3-Trichloropropane
 Concen: 24.217 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008082.D
 Acq: 14 Mar 2019 21:07

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW02D-M20W2-030419-D

Tot Ion: 75 Resp: 95074
 Ion Ratio Lower Upper
 75 100
 77 1.2 18.9 56.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.912 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008082.D
 Acq: 14 Mar 2019 21:07

Tgt Ion: 75 Resp: 95074
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.1 114.1#
 89 0.0 36.3 54.5#

