

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070819\
 Data File : VX010719.D
 Acq On : 09 Jul 2019 01:09
 Operator : JC/SP
 Sample : K3691-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW102-190704

Quant Time: Jul 09 07:23:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	232167	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	358207	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	328810	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156636	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	116656	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
35) Dibromofluoromethane	5.50	113	110785	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
50) Toluene-d8	8.71	98	429467	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
62) 4-Bromofluorobenzene	11.13	95	145993	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	

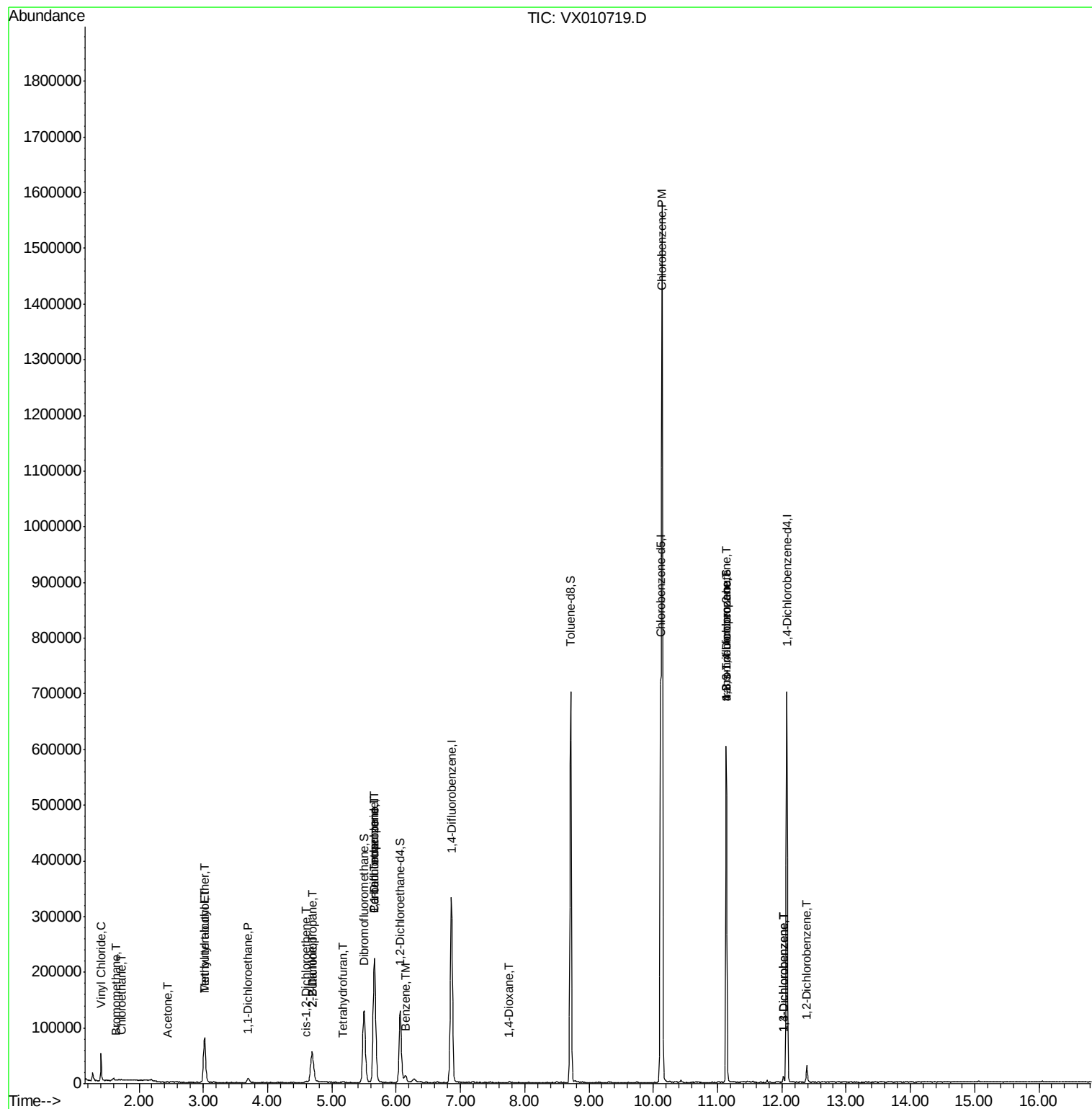
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	32196	15.640	ug/l	99
5) Bromomethane	1.65	94	275	0.274	ug/l	87
6) Chloroethane	1.73	64	750	0.618	ug/l #	80
11) Tert butyl alcohol	3.02	59	48588	85.302	ug/l #	82
16) Acetone	2.44	43	1294	1.186	ug/l	94
19) Methyl tert-butyl Ether	3.02	73	2913	0.460	ug/l #	64
24) 1,1-Dichloroethane	3.70	63	8075	2.339	ug/l	95
25) 2-Butanone	4.70	43	3567	2.229	ug/l #	75
26) 2,2-Dichloropropane	4.69	77	5267	1.756	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	1320	0.528	ug/l	65
29) Tetrahydrofuran	5.17	42	476	0.480	ug/l #	51
36) 1,1-Dichloropropene	5.67	75	15187	5.335	ug/l #	46
38) Carbon Tetrachloride	5.66	117	20955	6.798	ug/l #	15
40) Benzene	6.15	78	14670	1.654	ug/l	92
49) 1,4-Dioxane	7.74	88	495	7.630	ug/l #	37
65) Chlorobenzene	10.13	112	699094	104.726	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	72557	25.420	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	72557	59.302	ug/l #	16
87) 1,3-Dichlorobenzene	12.02	146	3330	0.643	ug/l	95
88) 1,4-Dichlorobenzene	12.02	146	3330	0.632	ug/l	94
91) 1,2-Dichlorobenzene	12.39	146	9331	1.814	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

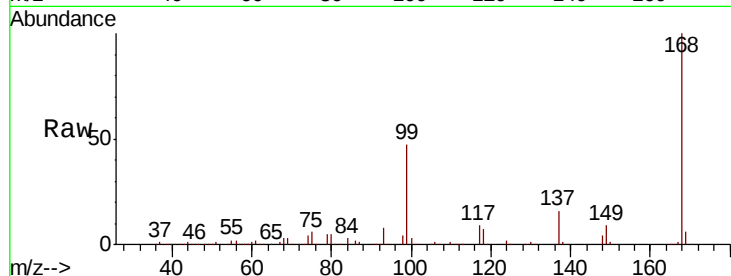
WP022MW102-190704

Tot Ion:168 Resp: 232167

Ion Ratio Lower Upper

168 100

99 46.9 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

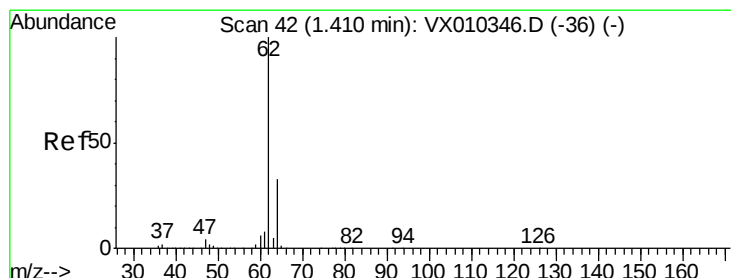
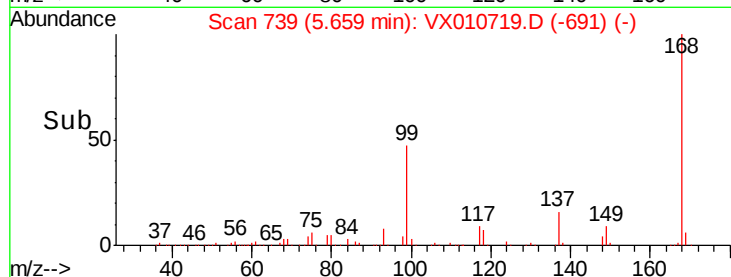
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 15.640 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010719.D

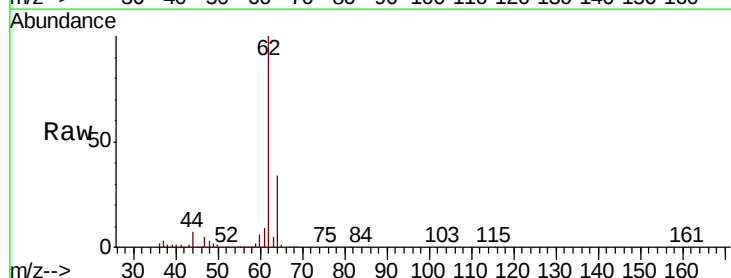
Acq: 09 Jul 2019 01:09

Tgt Ion: 62 Resp: 32196

Ion Ratio Lower Upper

62 100

64 33.6 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

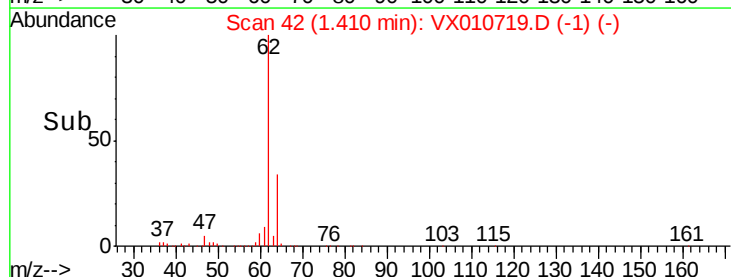
30000

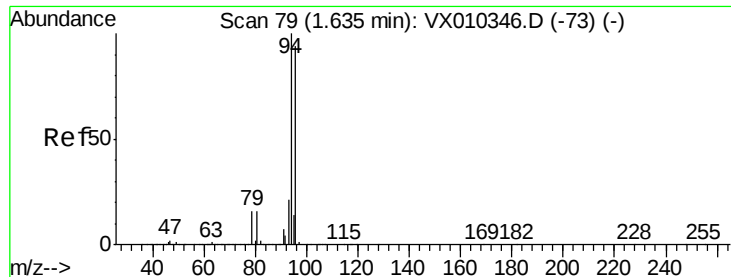
20000

10000

0

Time--> 1.30 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.274 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

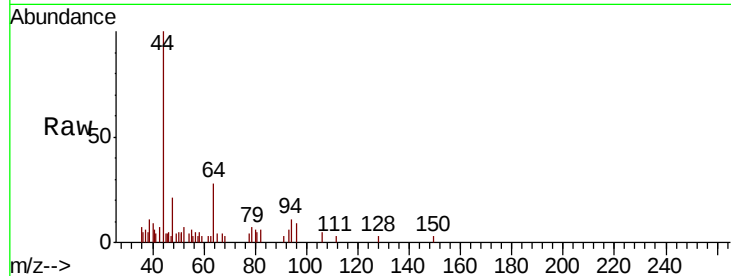
WP022MW102-190704

Tot Ion: 94 Resp: 275

Ion Ratio Lower Upper

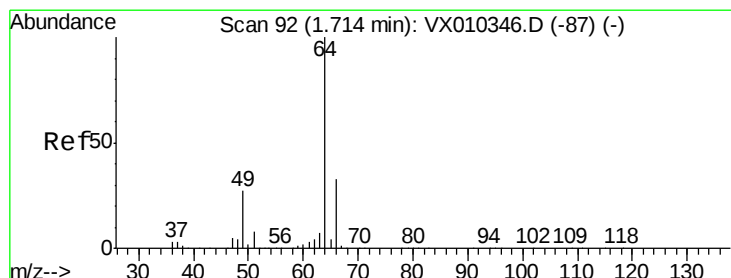
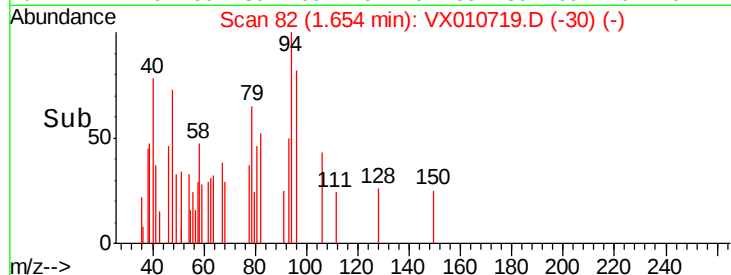
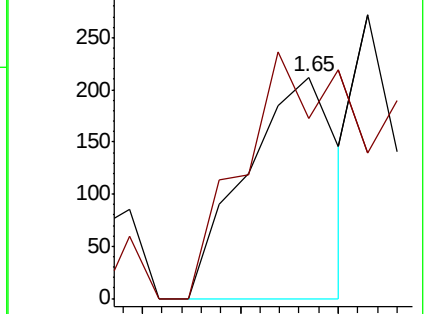
94 100

96 81.6 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.618 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX010719.D

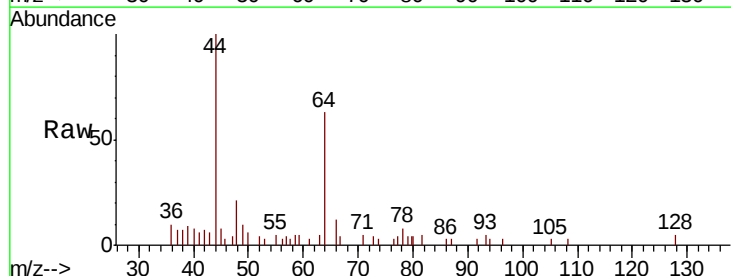
Acq: 09 Jul 2019 01:09

Tgt Ion: 64 Resp: 750

Ion Ratio Lower Upper

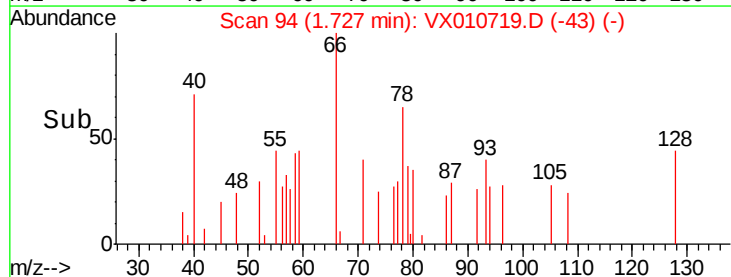
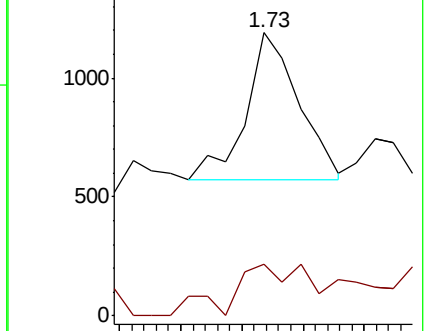
64 100

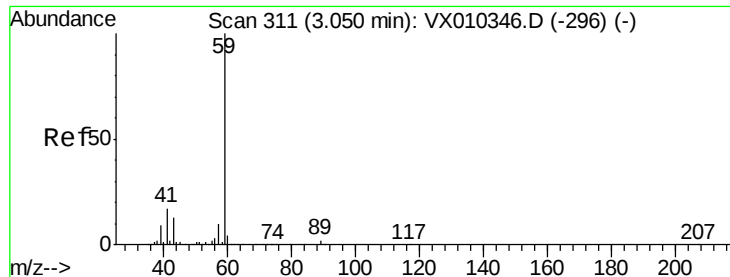
66 21.8 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

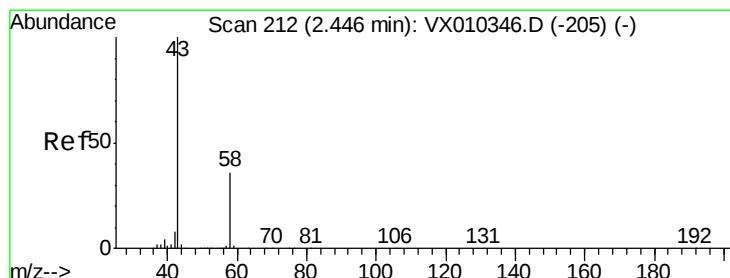
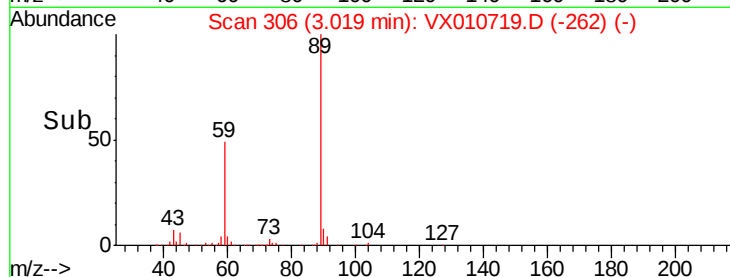
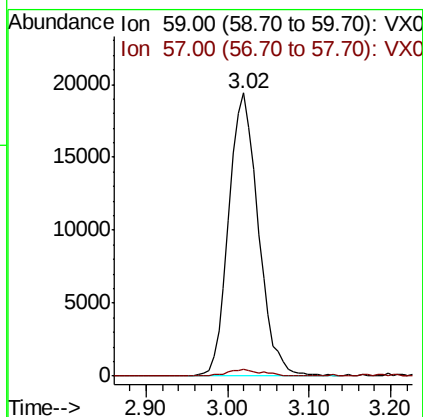
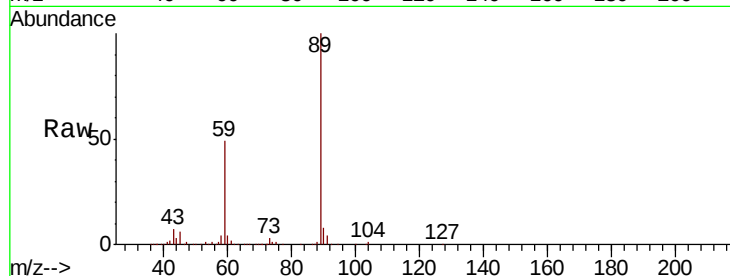




#11
Tert butyl alcohol
Concen: 85.302 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

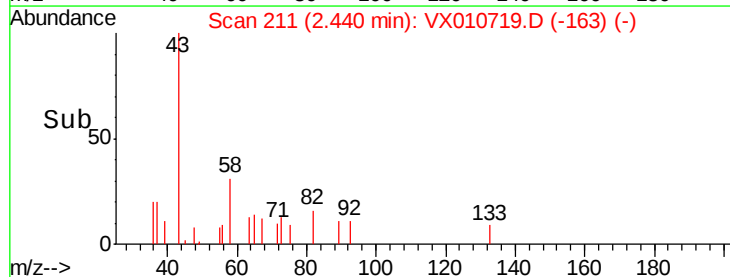
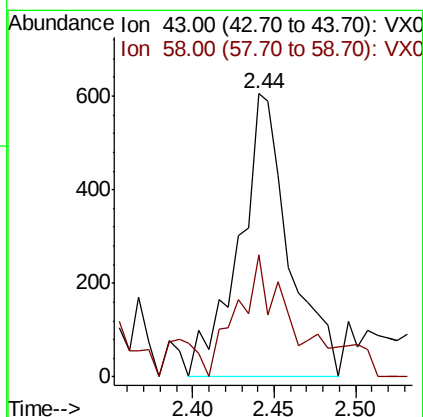
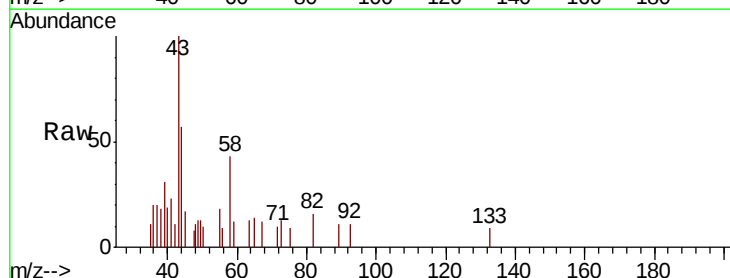
Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190704

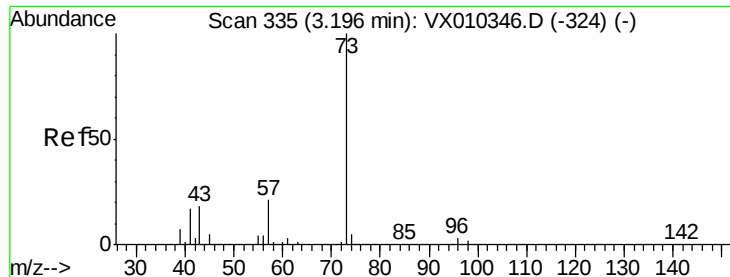
Tot Ion: 59 Resp: 48588
Ion Ratio Lower Upper
59 100
57 3.0 7.7 11.5#



#16
Acetone
Concen: 1.186 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

Tgt Ion: 43 Resp: 1294
Ion Ratio Lower Upper
43 100
58 32.6 28.9 43.3



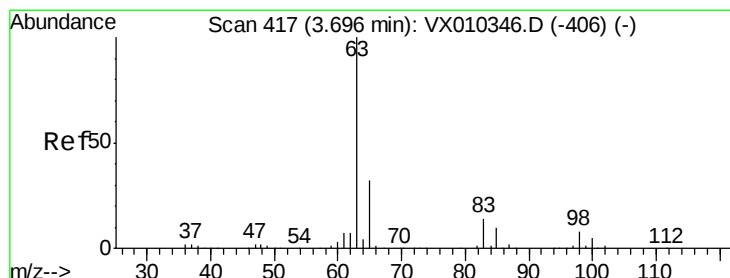
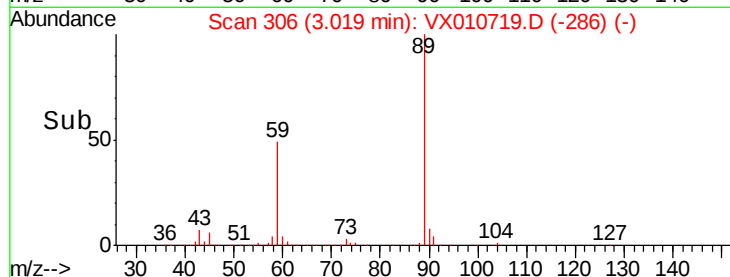
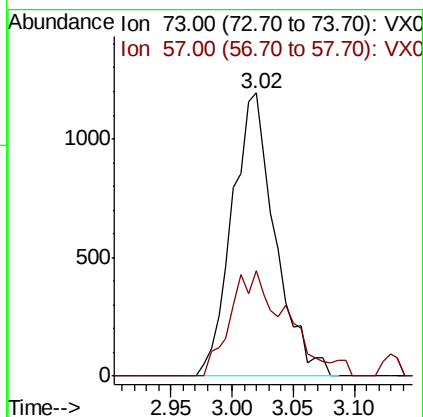
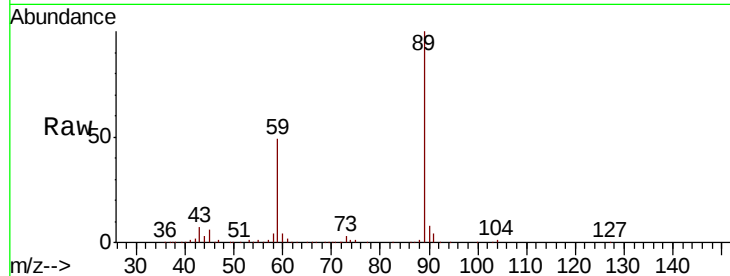


#19

Methyl tert-butyl Ether
 Concen: 0.460 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.18 min
 Lab File: VX010719.D
 Acq: 09 Jul 2019 01:09

Instrument :
 MSVOA_X
 ClientSampleId :
 WP022MW102-190704

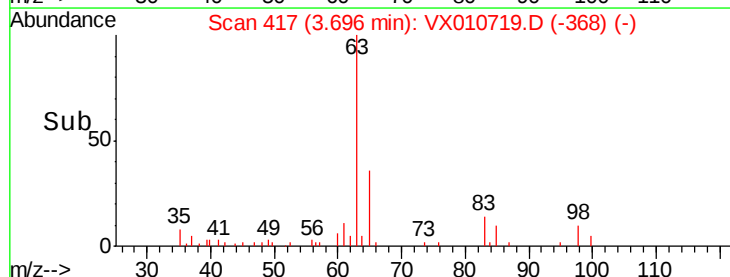
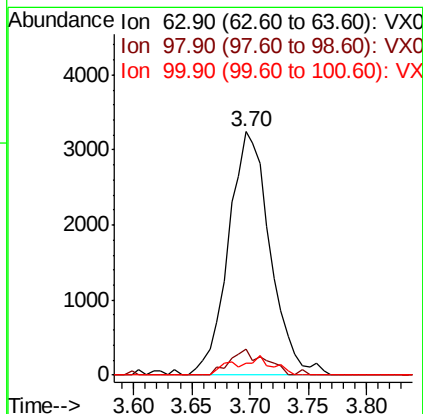
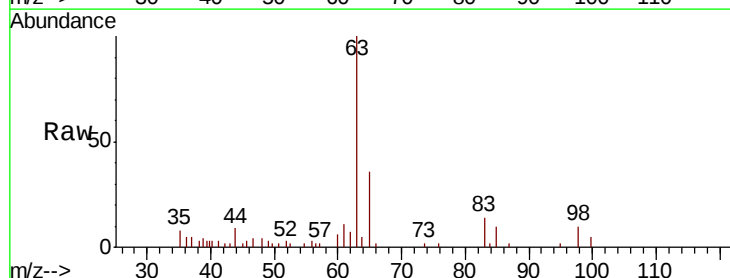
Tot Ion: 73 Resp: 2913
 Ion Ratio Lower Upper
 73 100
 57 37.4 16.4 24.6#

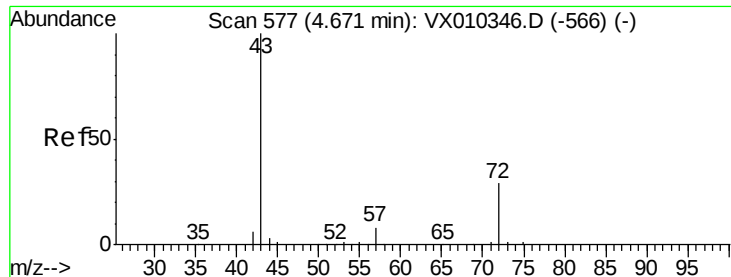


#24

1,1-Dichloroethane
 Concen: 2.339 ug/l
 RT: 3.70 min Scan# 417
 Delta R.T. 0.00 min
 Lab File: VX010719.D
 Acq: 09 Jul 2019 01:09

Tgt Ion: 63 Resp: 8075
 Ion Ratio Lower Upper
 63 100
 98 10.5 3.9 11.7
 100 4.8 2.4 7.1





#25

2-Butanone

Concen: 2.229 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

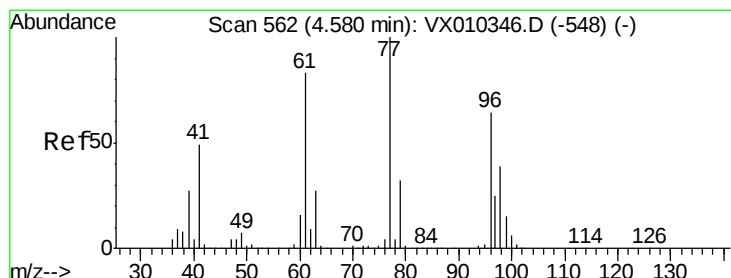
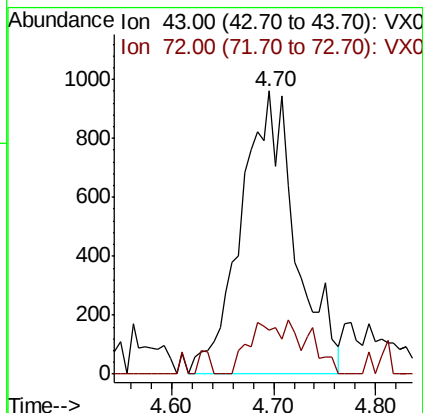
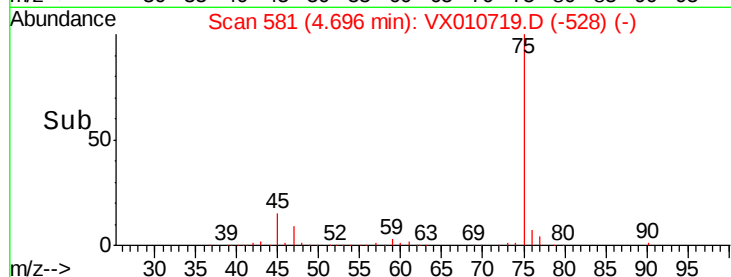
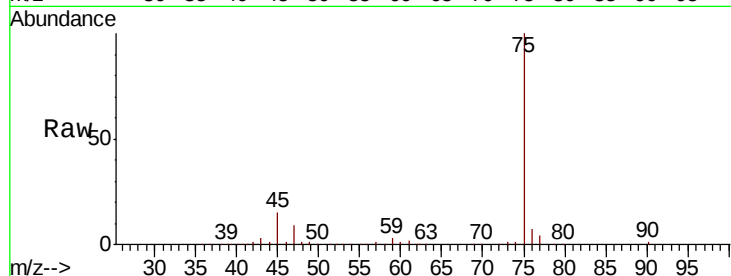
WP022MW102-190704

Tot Ion: 43 Resp: 3567

Ion Ratio Lower Upper

43 100

72 15.6 23.3 34.9#



#26

2,2-Dichloropropane

Concen: 1.756 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.11 min

Lab File: VX010719.D

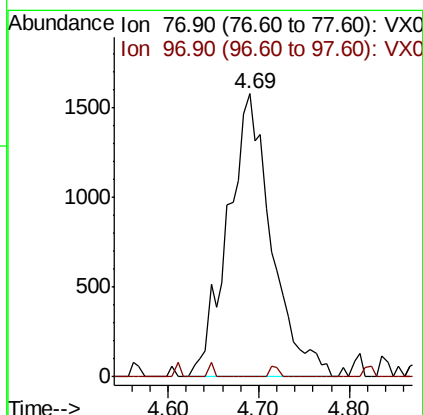
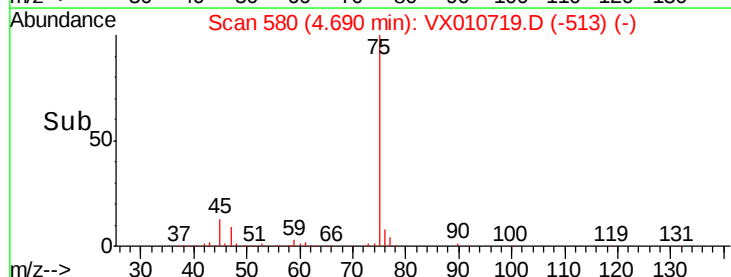
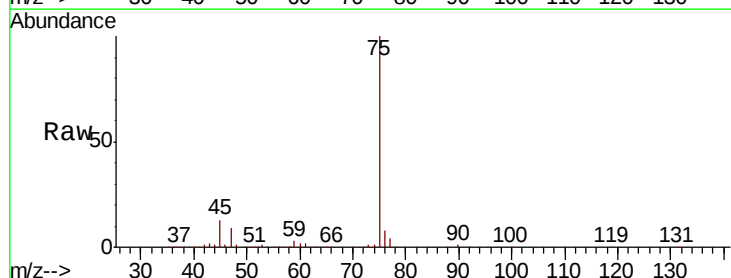
Acq: 09 Jul 2019 01:09

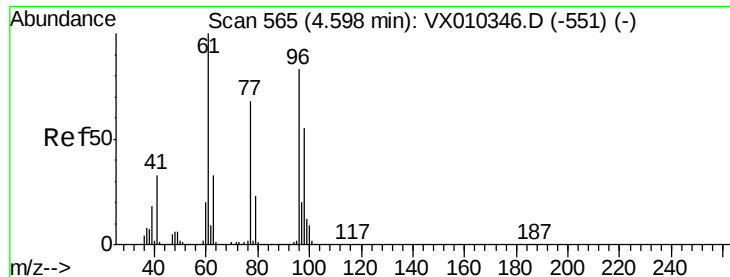
Tgt Ion: 77 Resp: 5267

Ion Ratio Lower Upper

77 100

97 0.0 13.1 39.3#



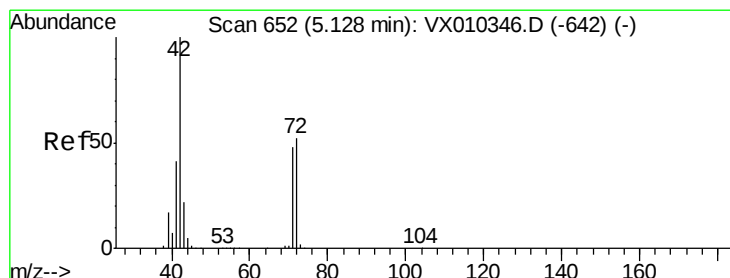
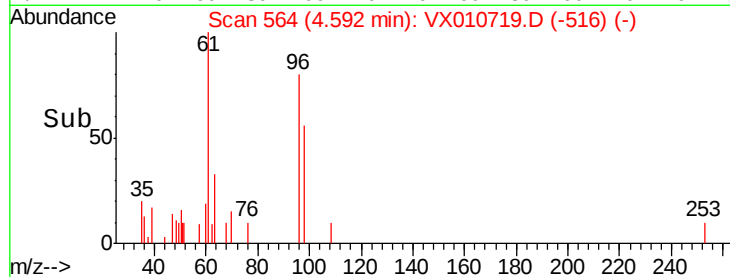
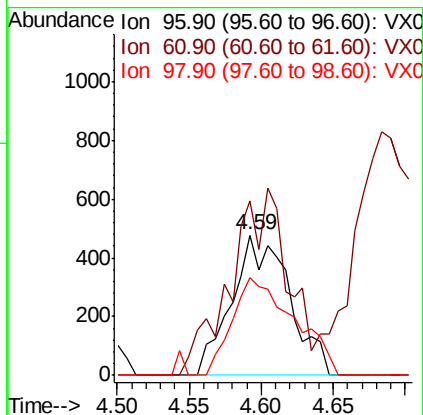
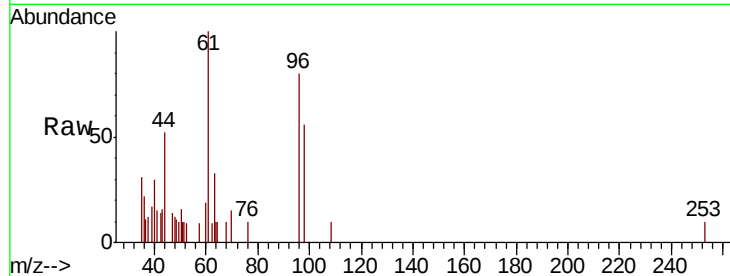


#27

cis-1,2-Dichloroethene
Concen: 0.528 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190704

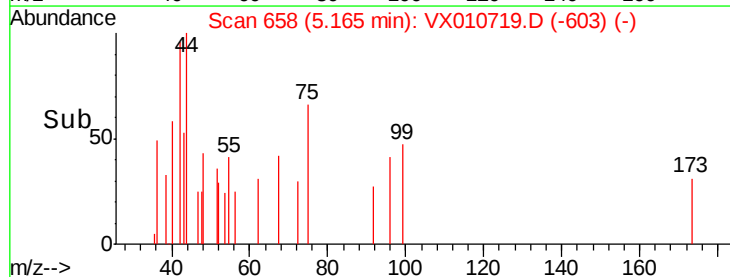
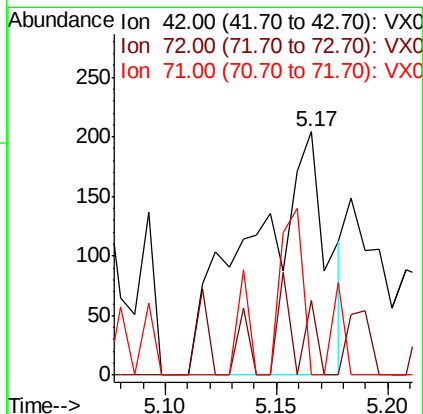
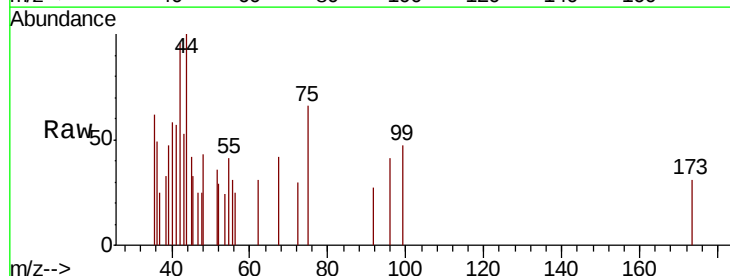
Tot Ion: 96 Resp: 1320
Ion Ratio Lower Upper
96 100
61 72.9 0.0 251.8
98 75.3 0.0 129.4

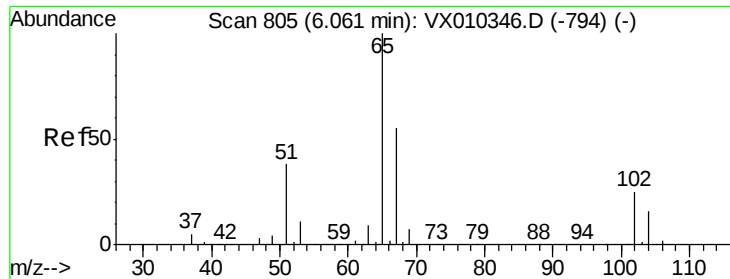


#29

Tetrahydrofuran
Concen: 0.480 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.04 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

Tgt Ion: 42 Resp: 476
Ion Ratio Lower Upper
42 100
72 11.3 40.6 60.8#
71 20.0 37.8 56.8#

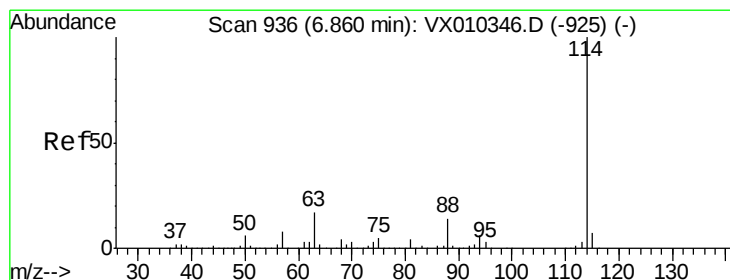
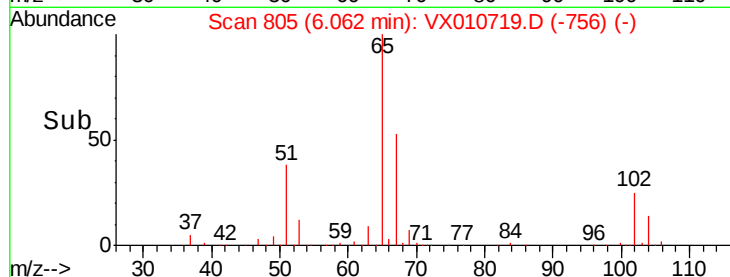
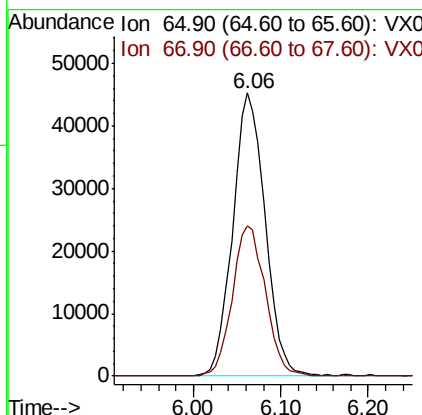
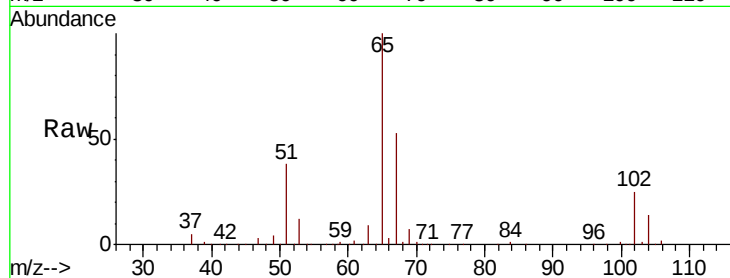




#33
 1,2-Dichloroethane-d4
 Concen: 53.591 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010719.D
 Acq: 09 Jul 2019 01:09

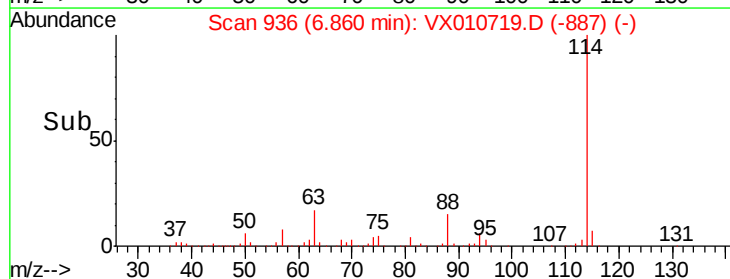
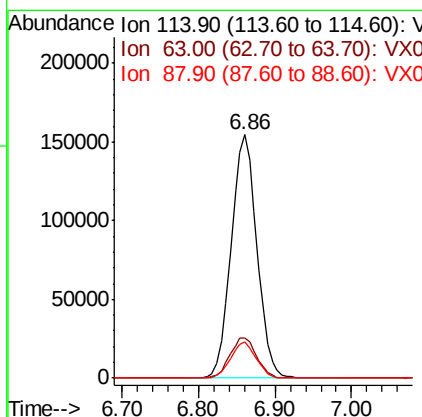
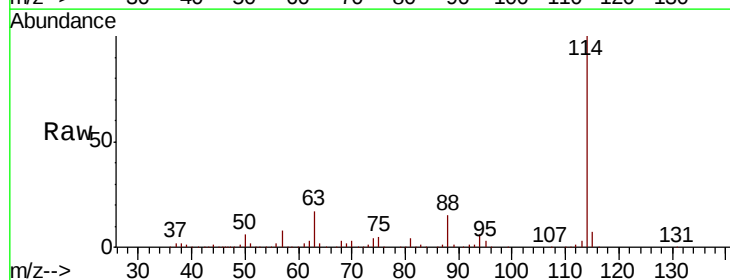
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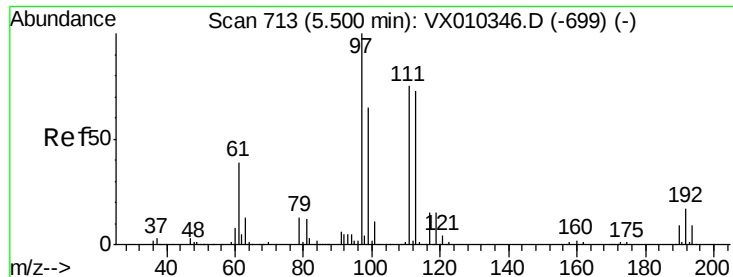
Tot Ion: 65 Resp: 116656
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010719.D
 Acq: 09 Jul 2019 01:09

Tgt Ion: 114 Resp: 358207
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 33.8
 88 14.9 0.0 27.6





#35

Dibromofluoromethane

Concen: 50.549 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

WP022MW102-190704

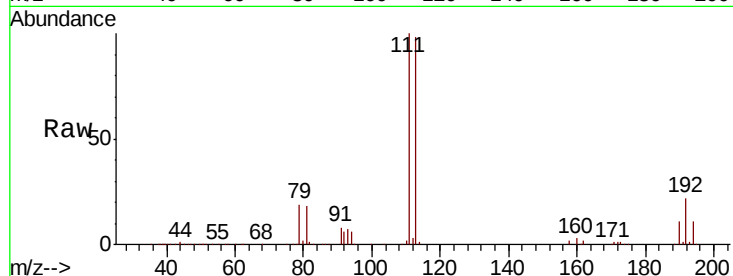
Tot Ion:113 Resp: 110785

Ion Ratio Lower Upper

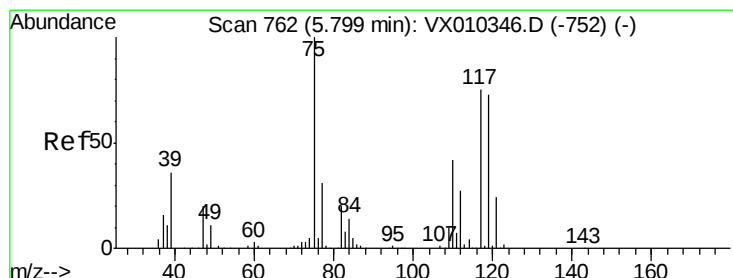
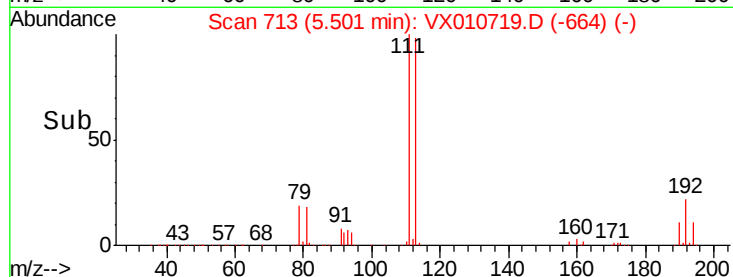
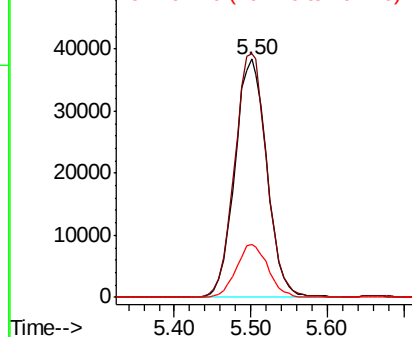
113 100

111 102.7 81.2 121.8

192 22.2 18.6 27.8



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: 5.335 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

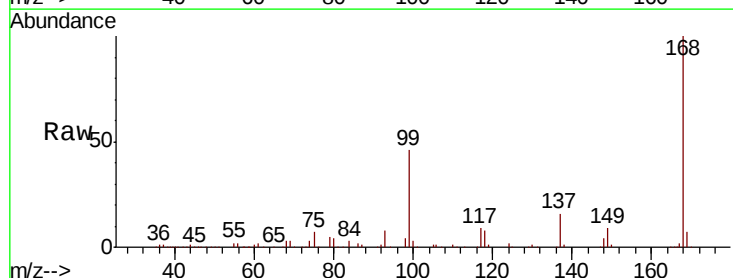
Tgt Ion: 75 Resp: 15187

Ion Ratio Lower Upper

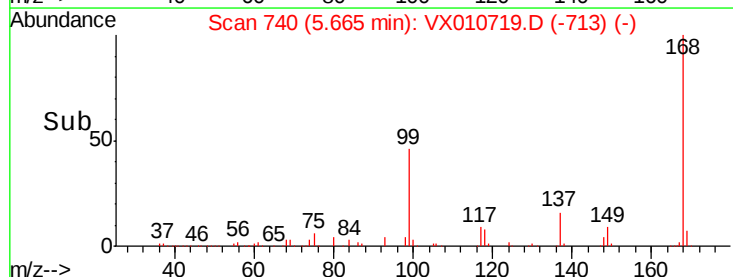
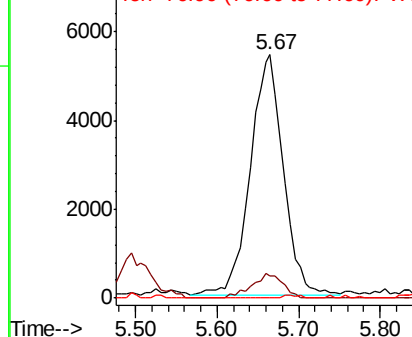
75 100

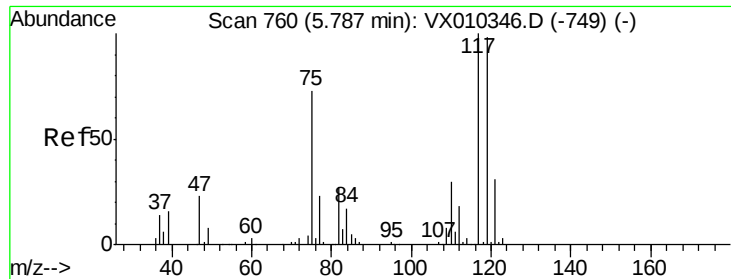
110 9.6 20.8 62.2#

77 0.0 25.4 38.0#



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





#38

Carbon Tetrachloride

Concen: 6.798 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

WP022MW102-190704

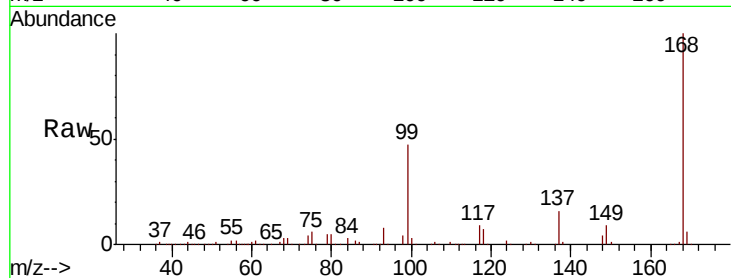
Tot Ion:117 Resp: 20955

Ion Ratio Lower Upper

117 100

119 5.4 78.2 117.4#

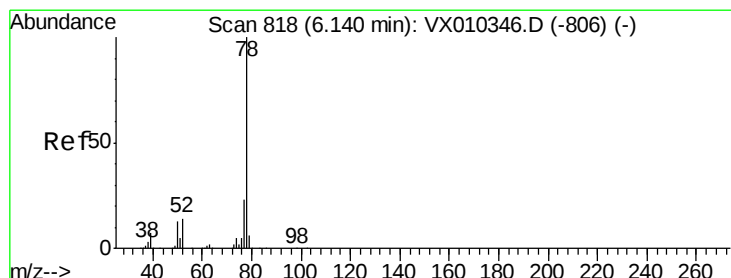
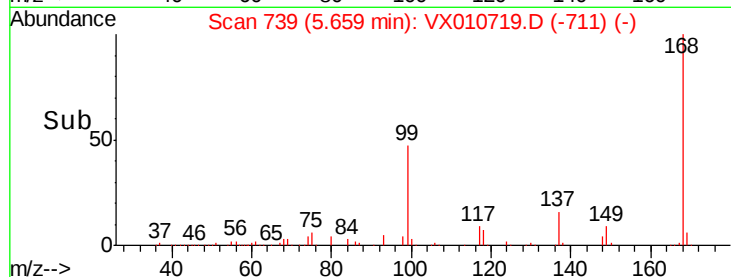
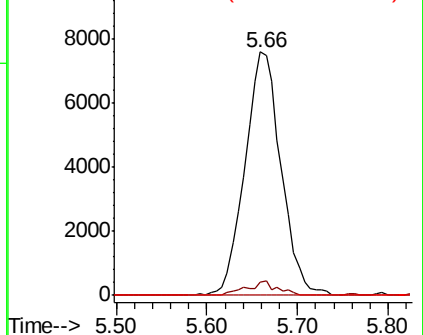
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 1.654 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010719.D

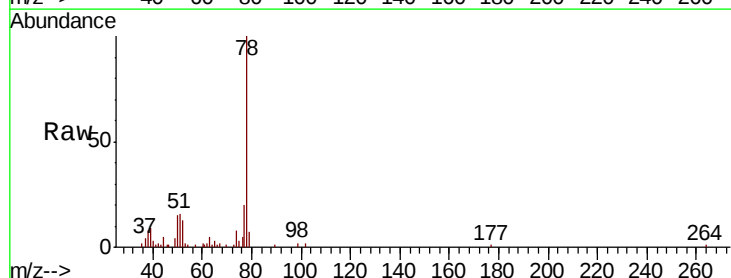
Acq: 09 Jul 2019 01:09

Tgt Ion: 78 Resp: 14670

Ion Ratio Lower Upper

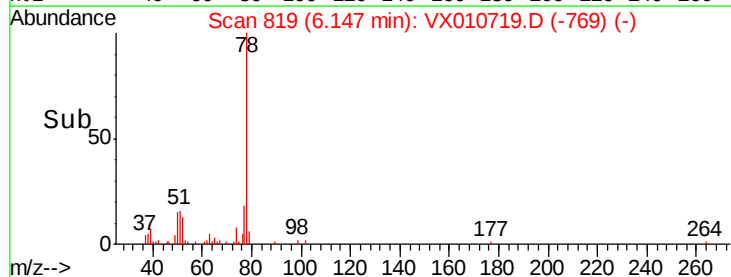
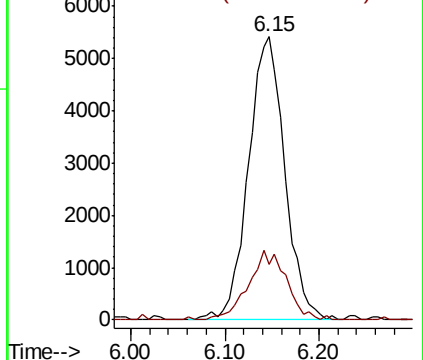
78 100

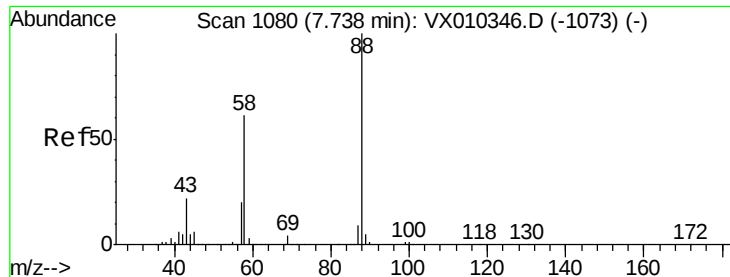
77 19.5 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

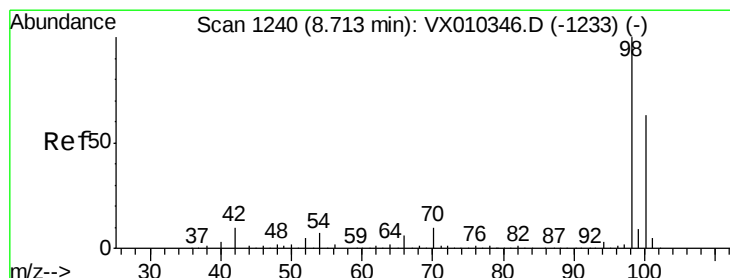
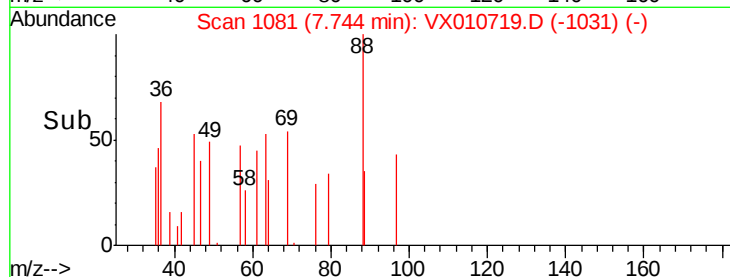
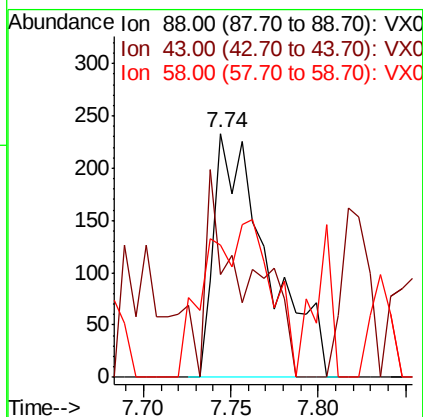
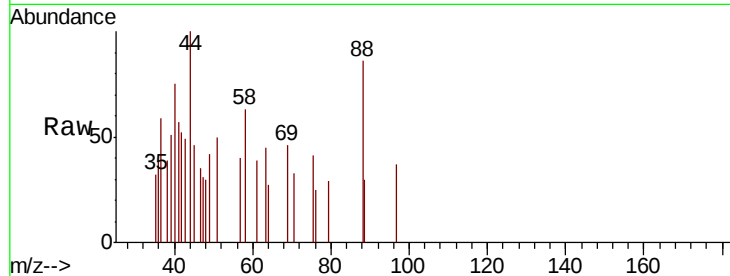




#49
1,4-Dioxane
Concen: 7.630 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

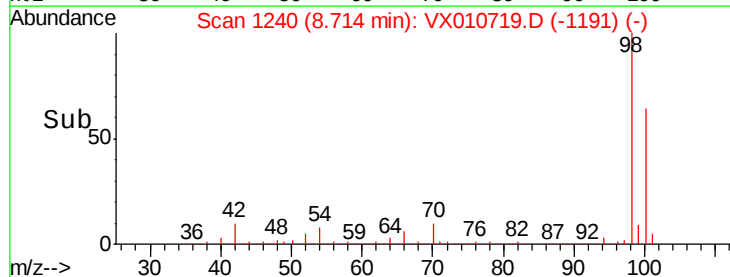
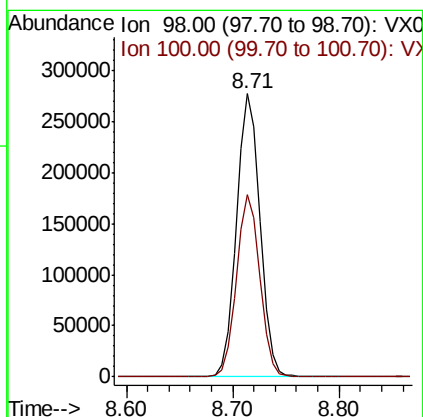
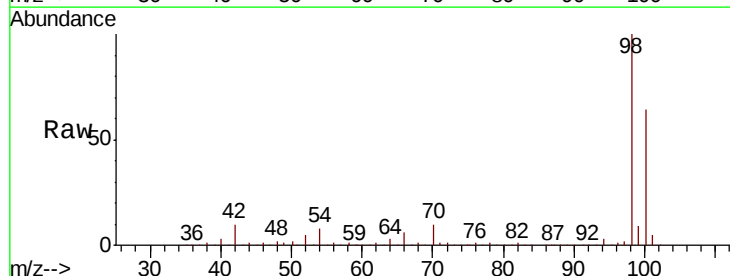
Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190704

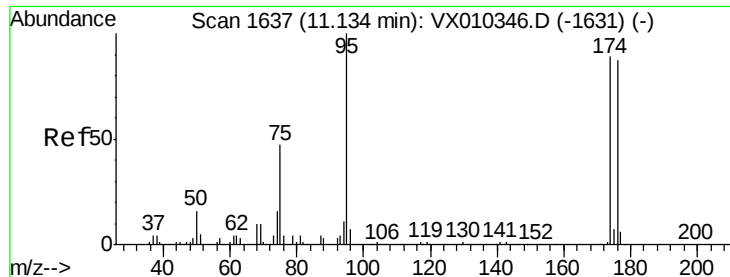
Tot Ion: 88 Resp: 495
Ion Ratio Lower Upper
88 100
43 14.3 20.2 30.2#
58 0.0 49.5 74.3#



#50
Toluene-d8
Concen: 51.220 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

Tgt Ion: 98 Resp: 429467
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4

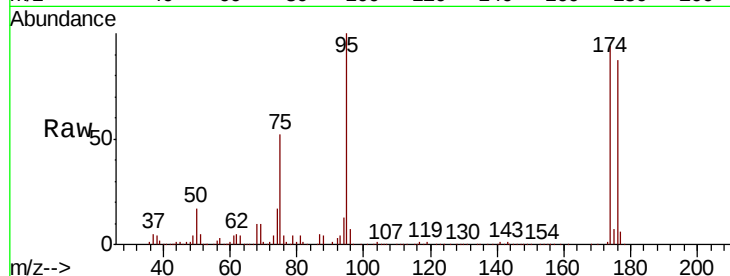




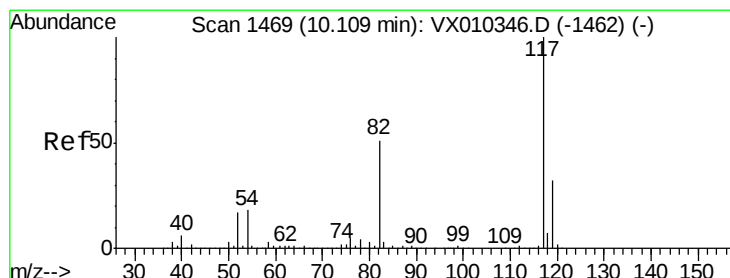
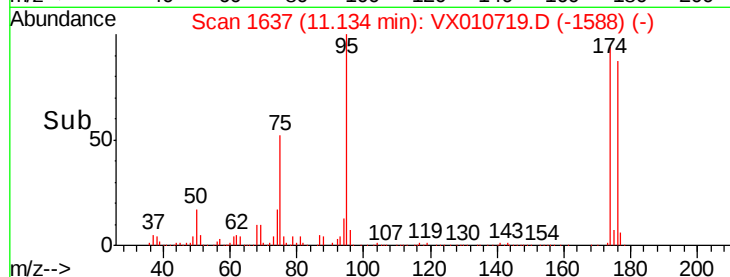
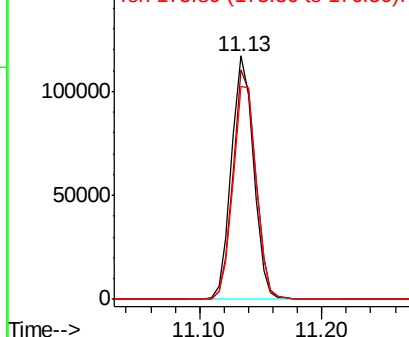
#62
4-Bromofluorobenzene
Concen: 48.228 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190704

Tot Ion: 95 Resp: 145993
Ion Ratio Lower Upper
95 100
174 95.4 0.0 187.6
176 91.8 0.0 184.0

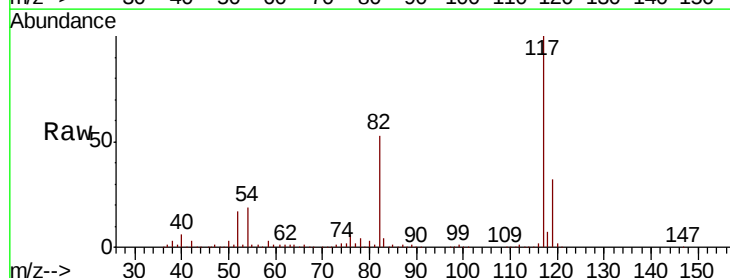


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

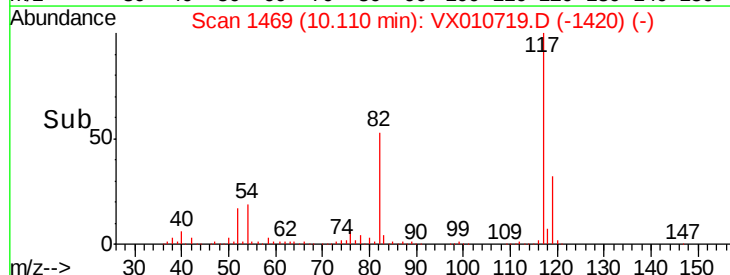
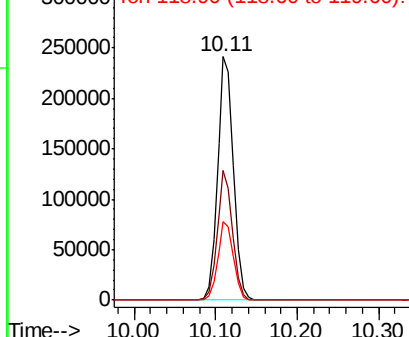


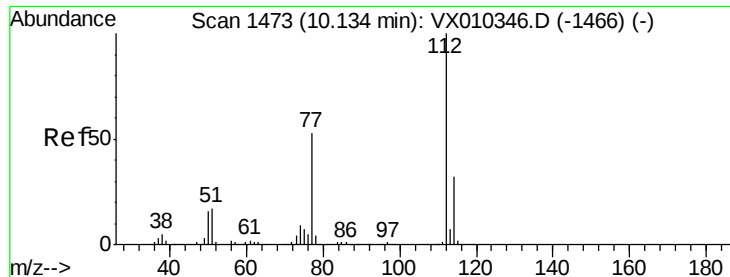
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

Tgt Ion: 117 Resp: 328810
Ion Ratio Lower Upper
117 100
82 53.2 41.2 61.8
119 32.5 25.5 38.3



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

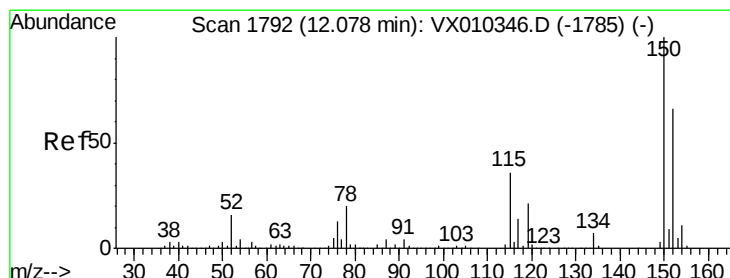
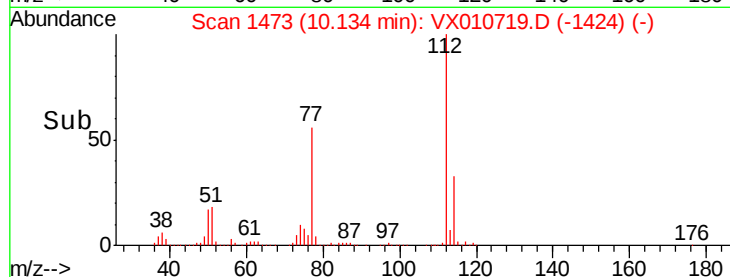
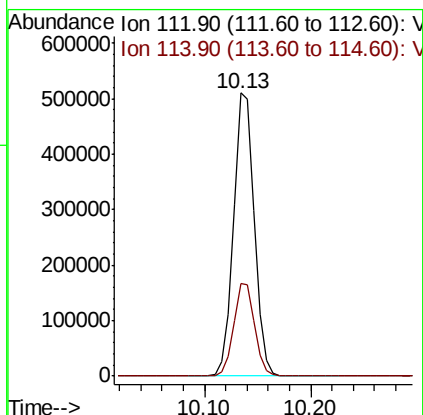
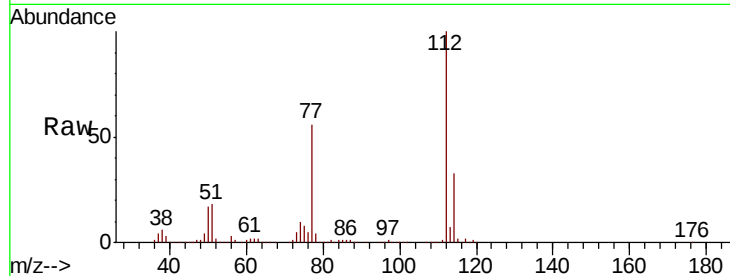




#65
Chlorobenzene
Concen: 104.726 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

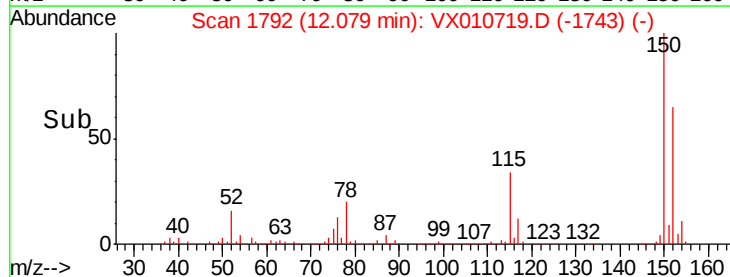
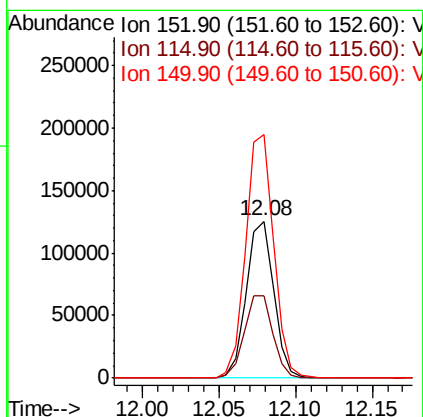
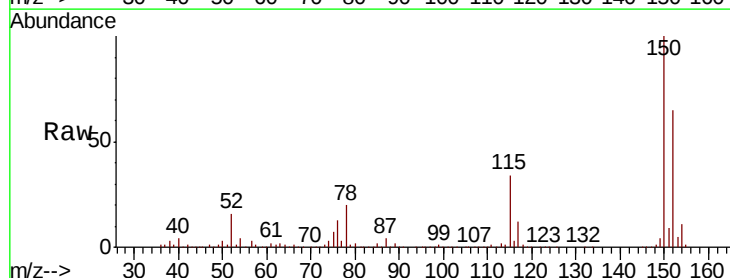
Instrument :
MSVOA_X
ClientSampleId :
WP022MW102-190704

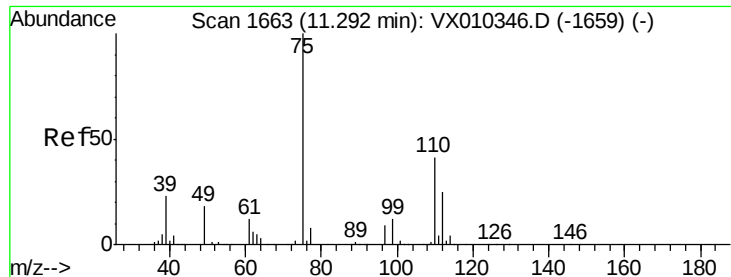
Tot Ion:112 Resp: 699094
Ion Ratio Lower Upper
112 100
114 32.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010719.D
Acq: 09 Jul 2019 01:09

Tgt Ion:152 Resp: 156636
Ion Ratio Lower Upper
152 100
115 54.5 38.6 115.7
150 157.6 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 25.420 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

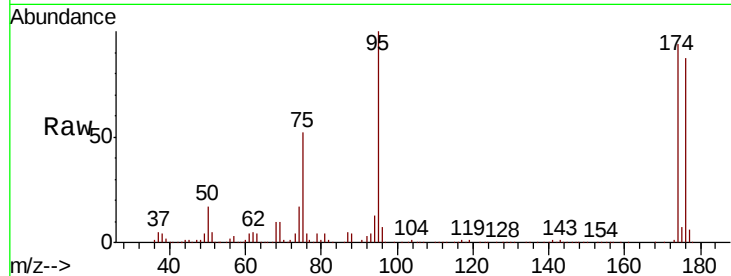
WP022MW102-190704

Tot Ion: 75 Resp: 72557

Ion Ratio Lower Upper

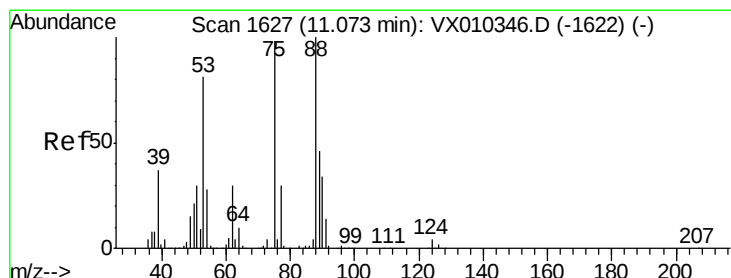
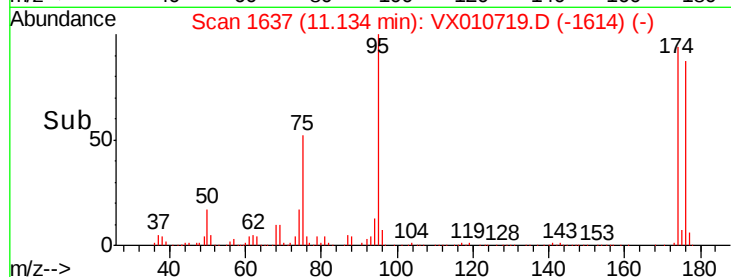
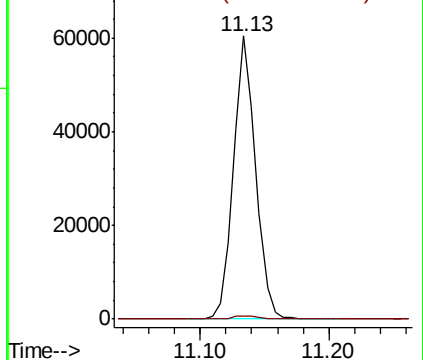
75 100

77 1.4 22.6 67.8#



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: 59.302 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

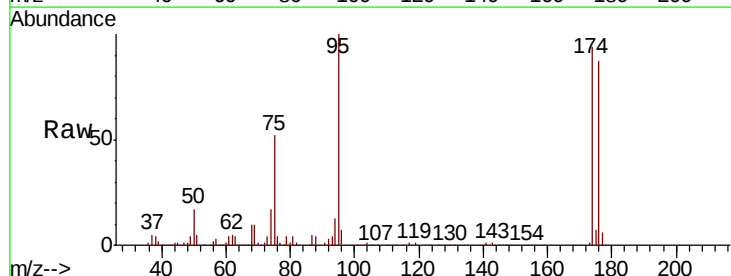
Tgt Ion: 75 Resp: 72557

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

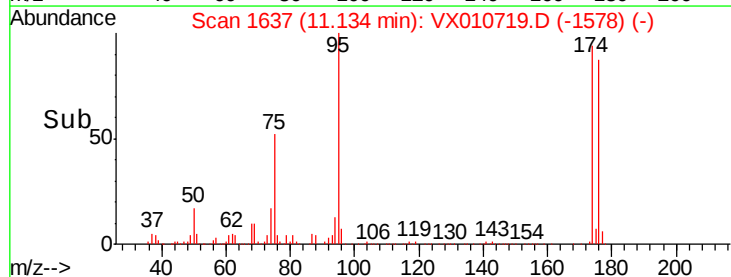
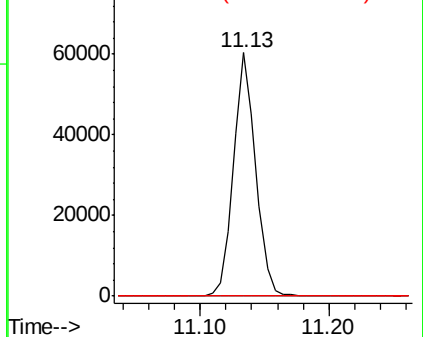
89 0.0 37.8 56.6#

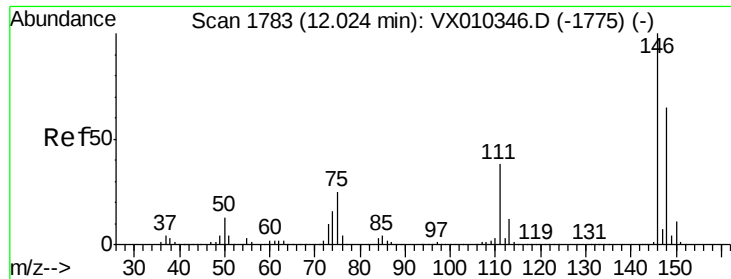


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#87

1,3-Dichlorobenzene

Concen: 0.643 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

WP022MW102-190704

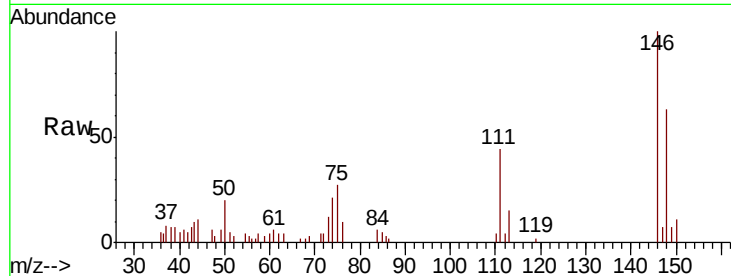
Tot Ion:146 Resp: 3330

Ion Ratio Lower Upper

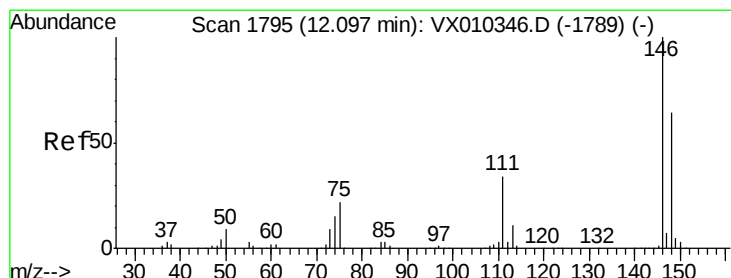
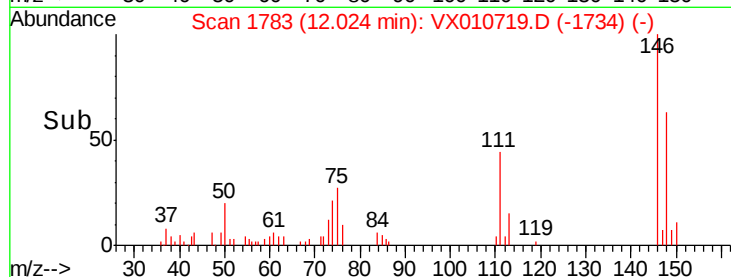
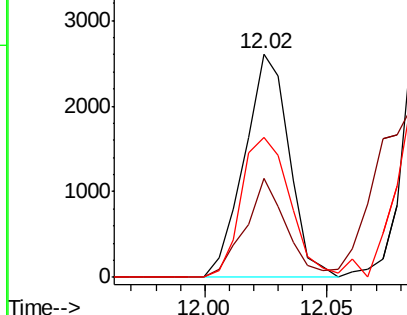
146 100

111 40.7 19.1 57.1

148 68.6 32.5 97.4



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.632 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.07 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

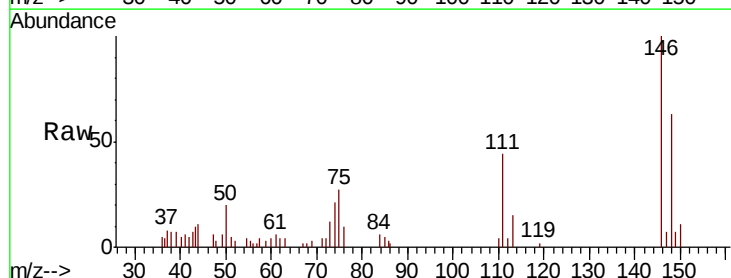
Tgt Ion:146 Resp: 3330

Ion Ratio Lower Upper

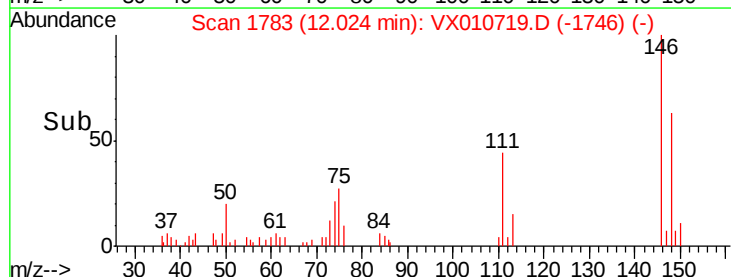
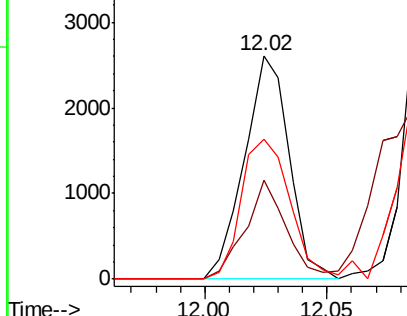
146 100

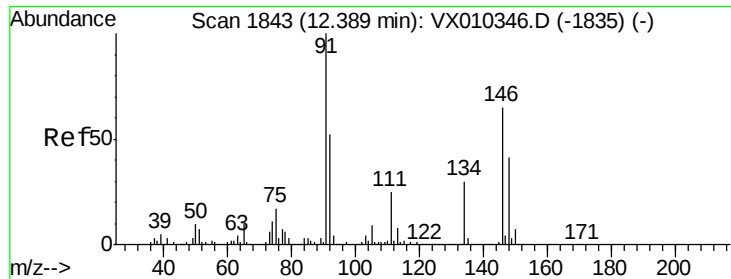
111 40.7 18.1 54.3

148 68.6 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 1.814 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX010719.D

Acq: 09 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

WP022MW102-190704

Tot Ion:146 Resp: 9331

Ion Ratio Lower Upper

146 100

111 38.9 19.2 57.6

148 61.6 32.0 96.0

