

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013684.D
 Acq On : 28 Nov 2019 04:41
 Operator : JC/SP
 Sample : K6079-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0201

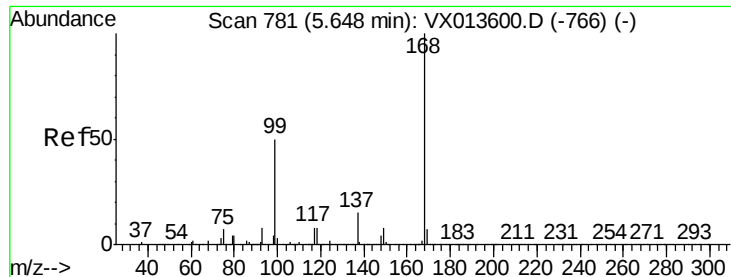
Quant Time: Nov 29 00:41:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	686370	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1084024	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	965735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	434423	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	393827	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
35) Dibromofluoromethane	5.49	113	318823	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
50) Toluene-d8	8.71	98	1265288	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
62) 4-Bromofluorobenzene	11.14	95	430762	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.63	64	18740	3.413	ug/l #	66
11) Tert butyl alcohol	3.02	59	4157	2.114	ug/l	95
13) Acrolein	2.28	56	490	6.367	ug/l #	50
15) Acrylonitrile	3.13	53	1086	0.268	ug/l #	51
16) Acetone	2.43	43	11517	2.928	ug/l #	88
27) cis-1,2-Dichloroethene	4.59	96	25379	3.106	ug/l	88
32) 1,1,1-Trichloroethane	5.49	97	7037	0.665	ug/l #	47
36) 1,1-Dichloropropene	5.65	75	46349	4.710	ug/l #	46
38) Carbon Tetrachloride	5.65	117	60145	6.629	ug/l #	15
44) Trichloroethene	7.21	130	21717	2.640	ug/l	92
49) 1,4-Dioxane	7.75	88	260	1.315	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	6742	0.590	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	211064	21.601	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	211064	59.097	ug/l #	11
91) 1,2-Dichlorobenzene	12.39	146	12808	0.903	ug/l	99
95) Naphthalene	13.83	128	9135	0.310	ug/l #	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

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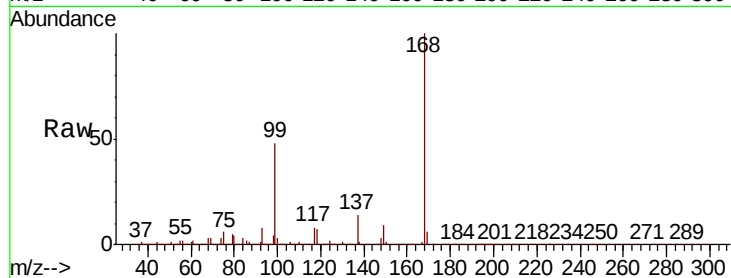
S39-0201

Tot Ion:168 Resp: 686370

Ion Ratio Lower Upper

168 100

99 48.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

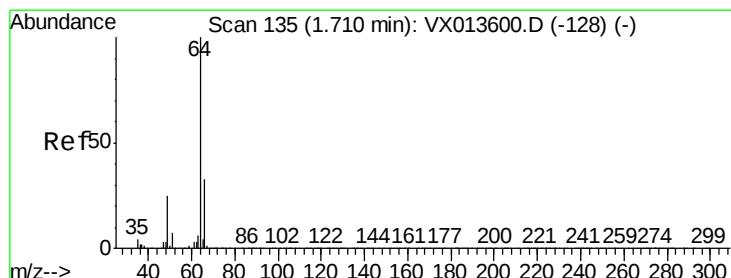
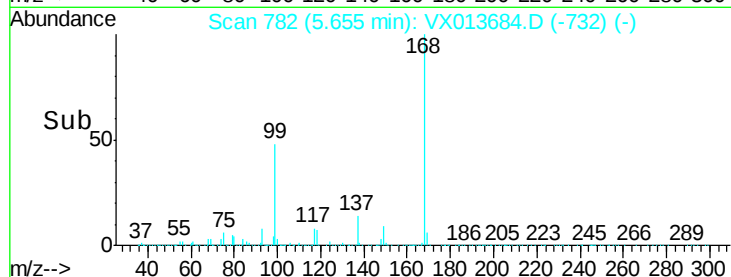
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 3.413 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.08 min

Lab File: VX013684.D

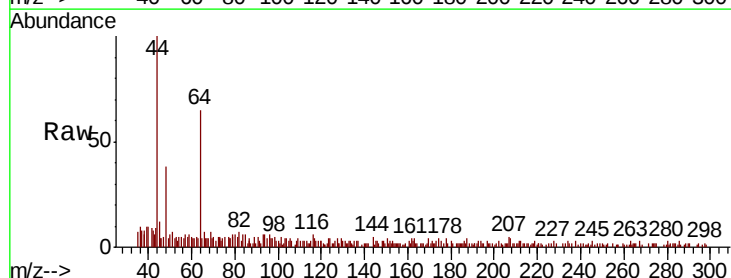
Acq: 28 Nov 2019 04:41

Tgt Ion: 64 Resp: 18740

Ion Ratio Lower Upper

64 100

66 14.1 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.63

4000

3000

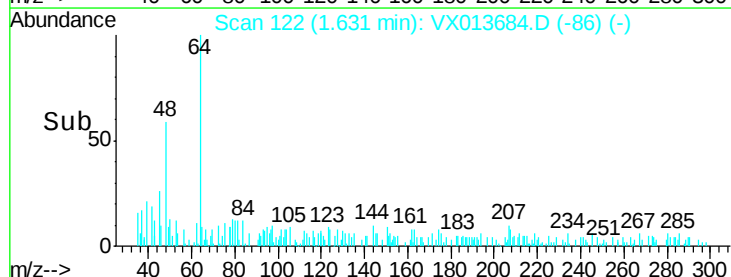
2000

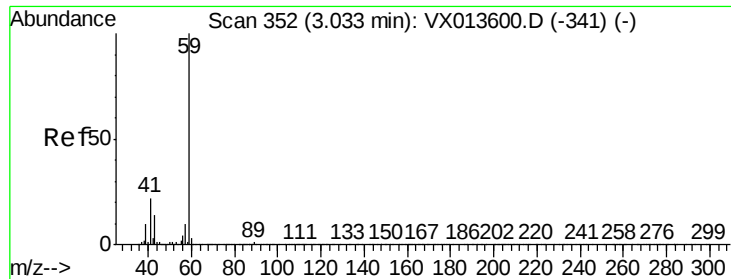
1000

0

Time-->

1.40 1.50 1.60 1.70

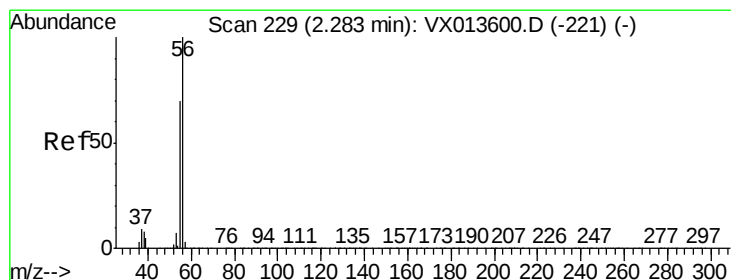
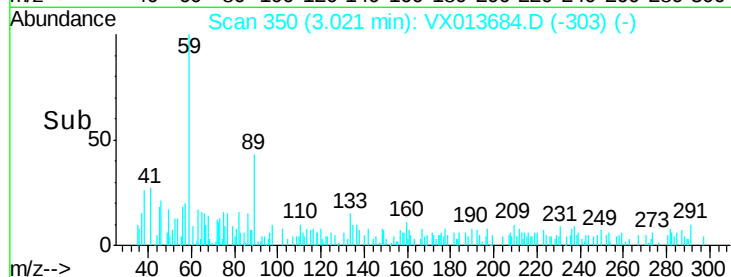
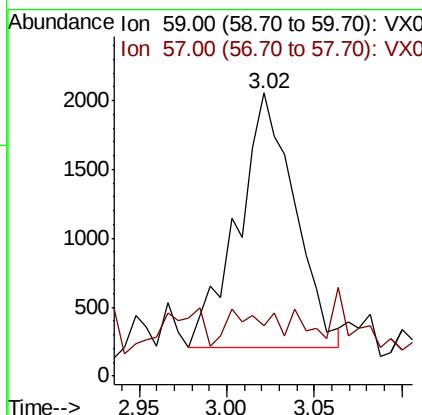
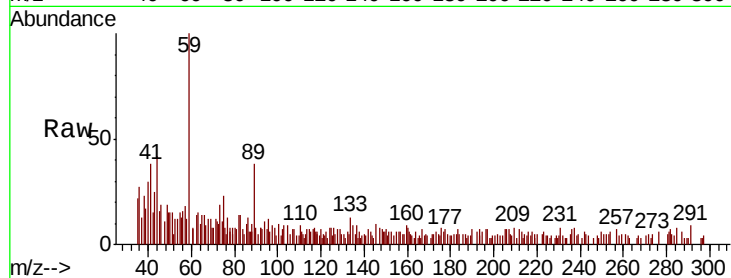




#11
Tert butyl alcohol
Concen: 2.114 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013684.D
Acq: 28 Nov 2019 04:41

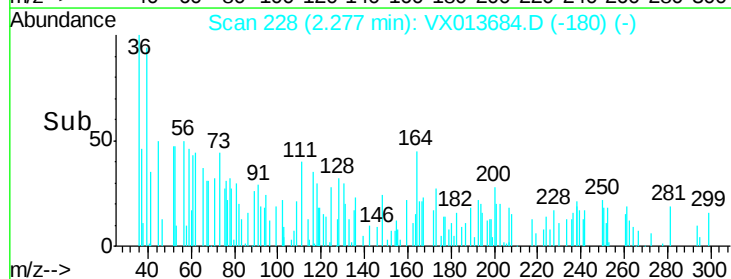
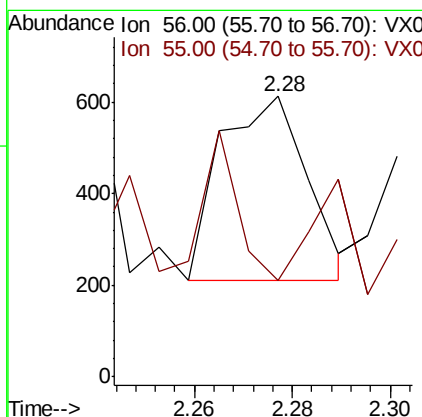
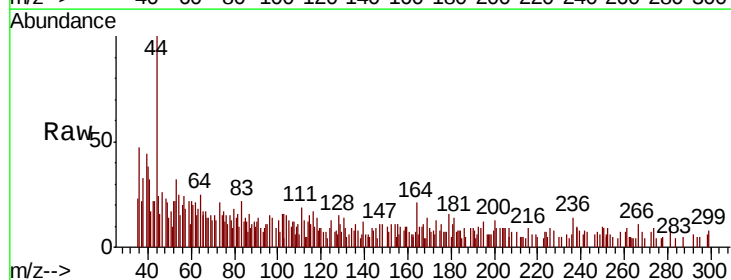
Instrument :
MSVOA_X
ClientSampleId :
S39-0201

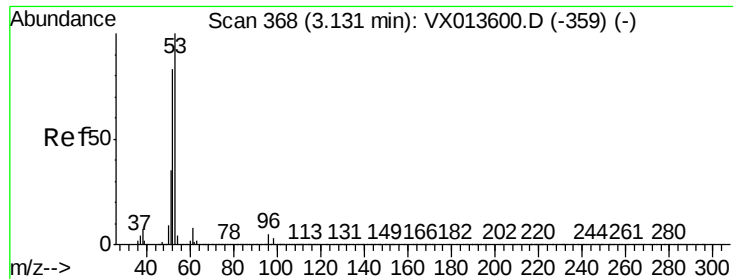
Tot Ion: 59 Resp: 4157
Ion Ratio Lower Upper
59 100
57 7.8 7.8 11.6



#13
Acrolein
Concen: 6.367 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX013684.D
Acq: 28 Nov 2019 04:41

Tgt Ion: 56 Resp: 490
Ion Ratio Lower Upper
56 100
55 29.0 56.2 84.4#





#15

Acrylonitrile

Concen: 0.268 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

S39-0201

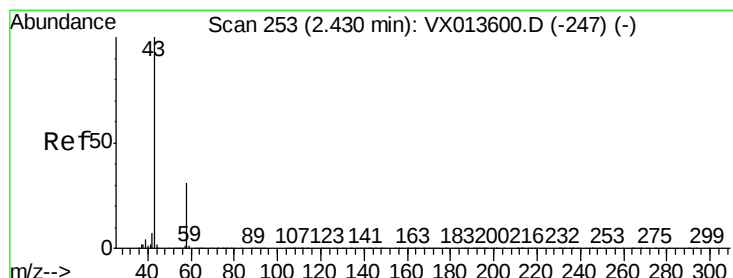
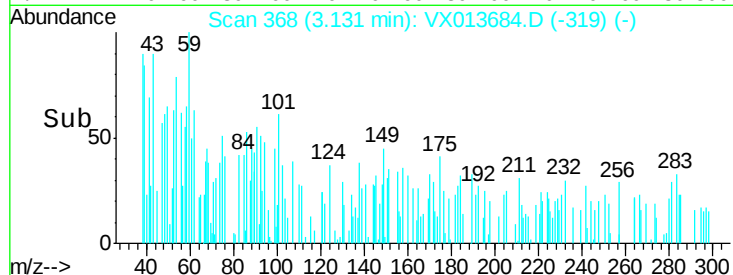
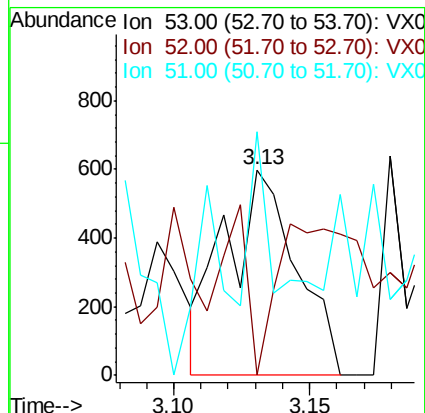
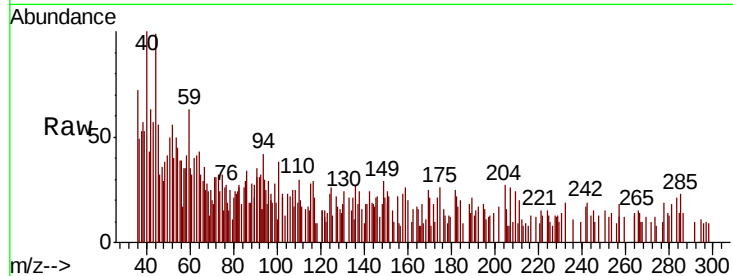
Tot Ion: 53 Resp: 1086

Ion Ratio Lower Upper

53 100

52 28.5 66.2 99.2#

51 23.1 29.0 43.6#



#16

Acetone

Concen: 2.928 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013684.D

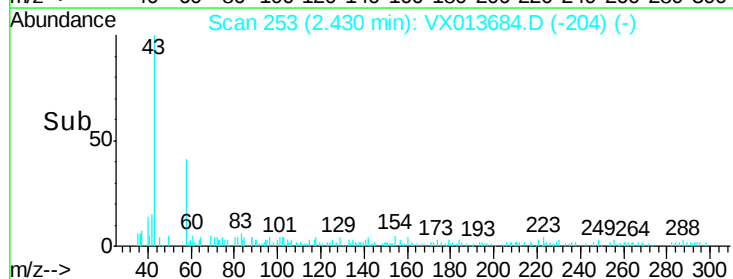
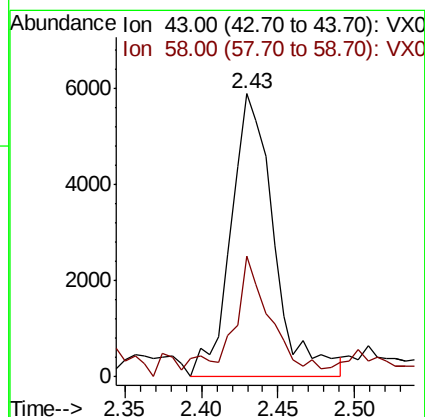
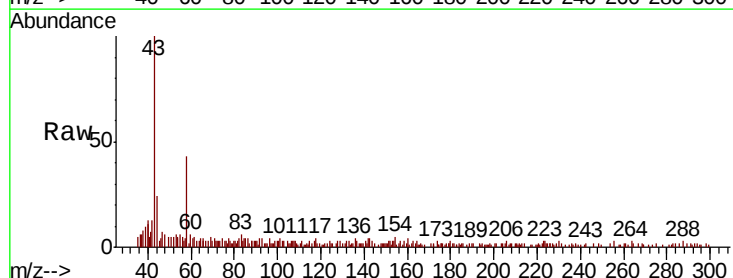
Acq: 28 Nov 2019 04:41

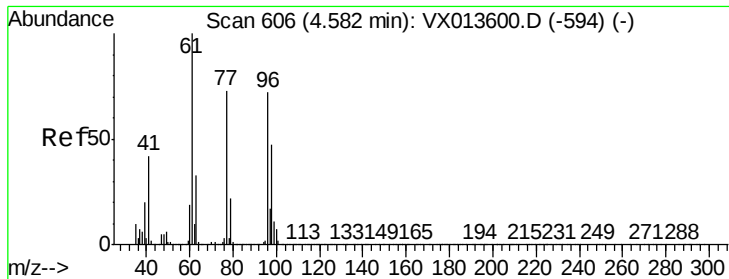
Tgt Ion: 43 Resp: 11517

Ion Ratio Lower Upper

43 100

58 37.3 24.6 36.8#



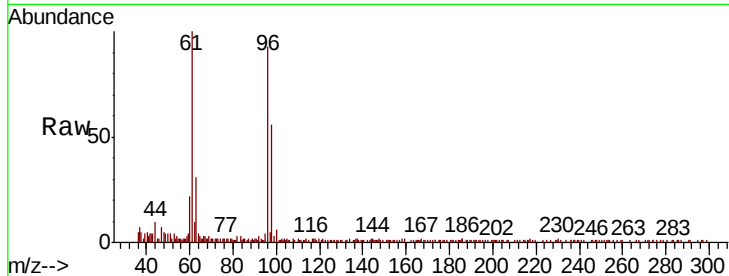


#27

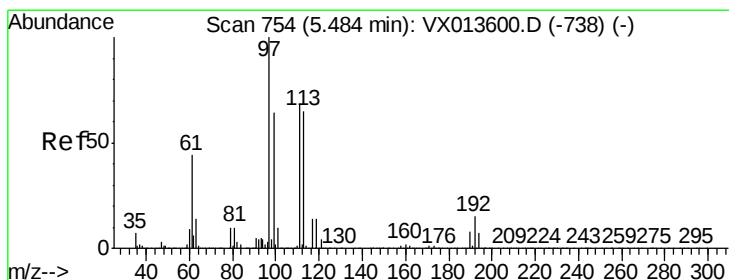
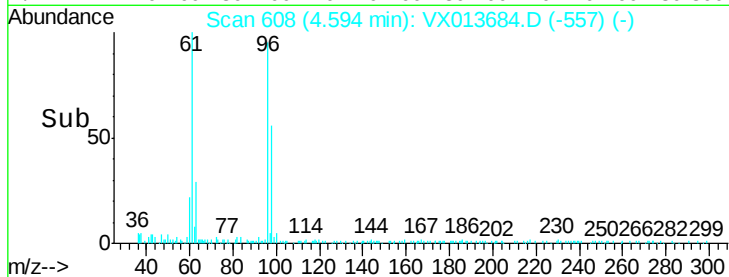
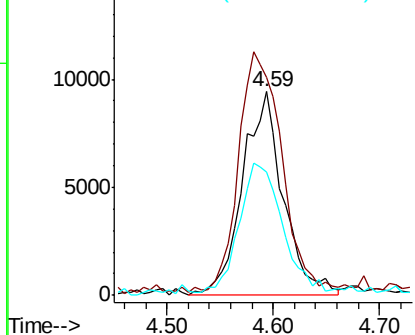
cis-1,2-Dichloroethene
Concen: 3.106 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX013684.D
Acq: 28 Nov 2019 04:41

Instrument :
MSVOA_X
ClientSampled :
S39-0201

Tot Ion: 96 Resp: 25379
Ion Ratio Lower Upper
96 100
61 124.6 0.0 286.4
98 67.2 0.0 127.4



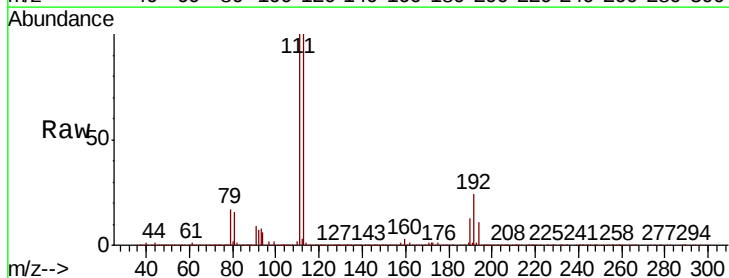
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



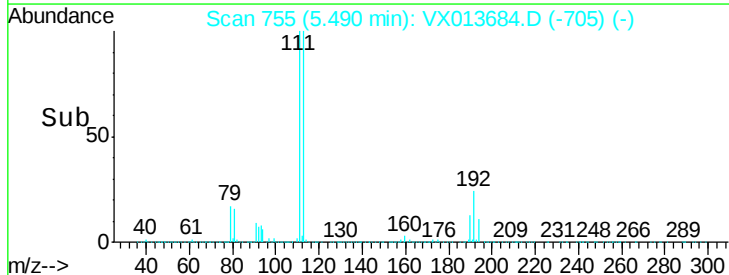
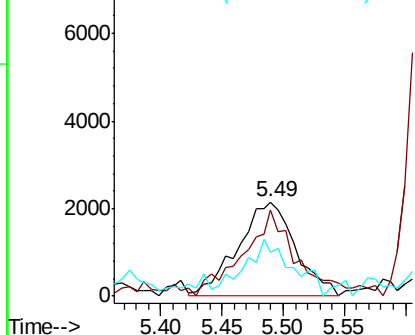
#32

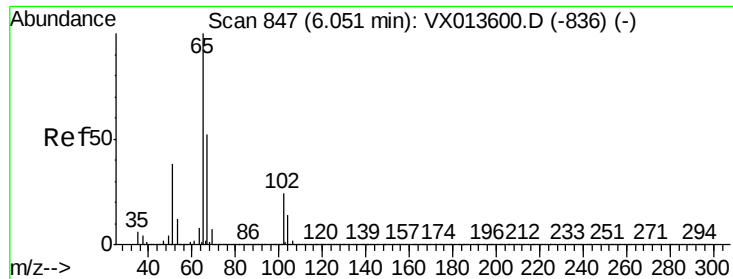
1,1,1-Trichloroethane
Concen: 0.665 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013684.D
Acq: 28 Nov 2019 04:41

Tgt Ion: 97 Resp: 7037
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 37.2 36.1 54.1



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0

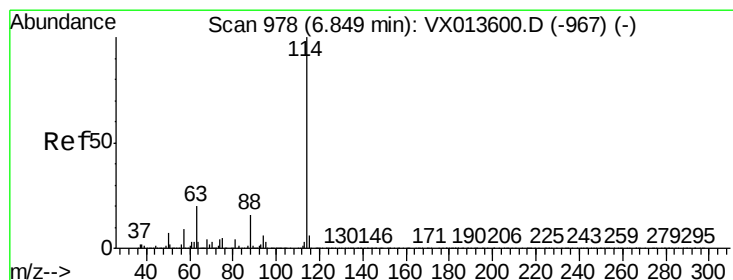
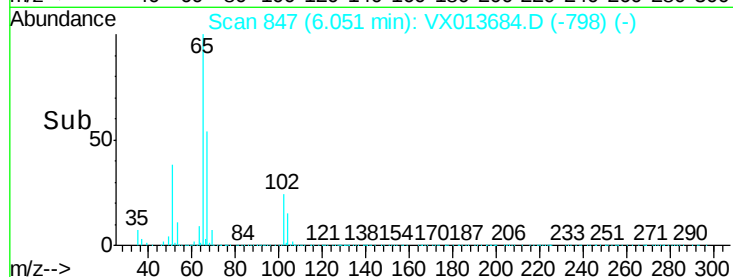
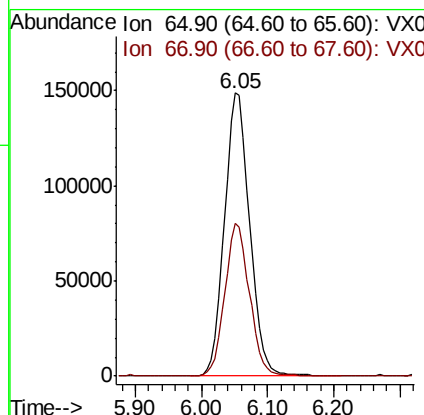
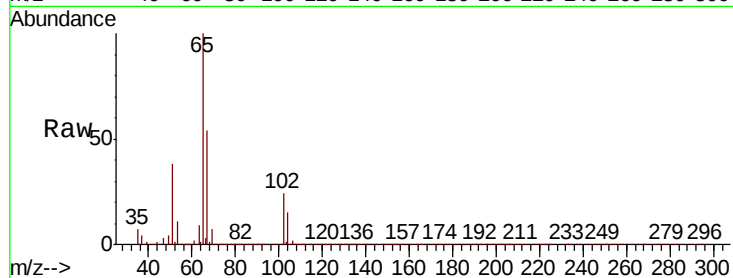




#33
 1,2-Dichloroethane-d4
 Concen: 49.431 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013684.D
 Acq: 28 Nov 2019 04:41

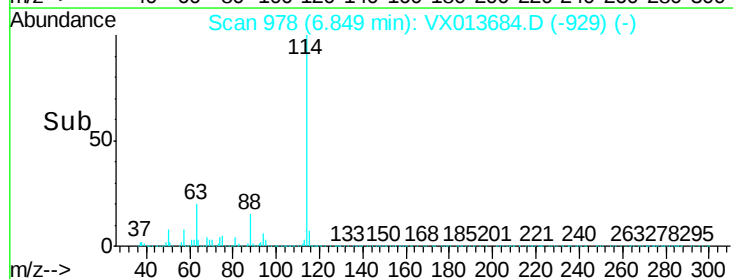
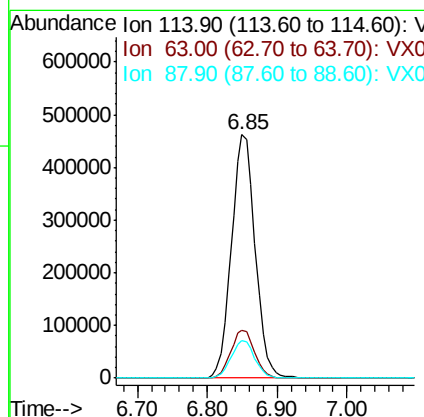
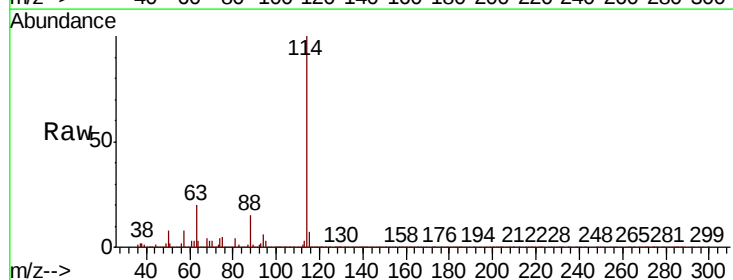
Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0201

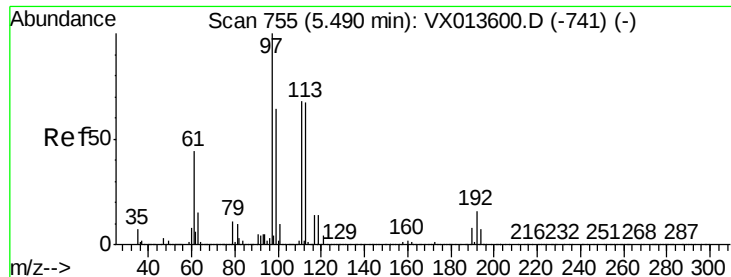
Tot Ion: 65 Resp: 393827
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013684.D
 Acq: 28 Nov 2019 04:41

Tgt Ion: 114 Resp: 1084024
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.6
 88 15.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.574 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

S39-0201

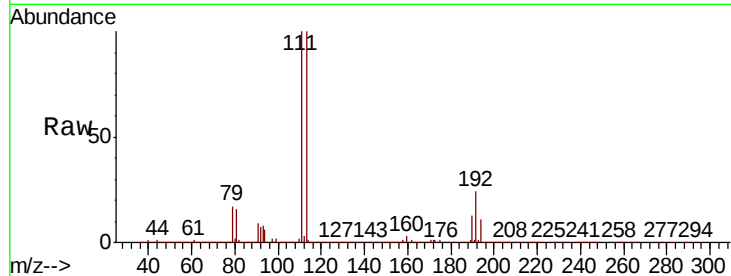
Tot Ion:113 Resp: 318823

Ion Ratio Lower Upper

113 100

111 102.4 83.6 125.4

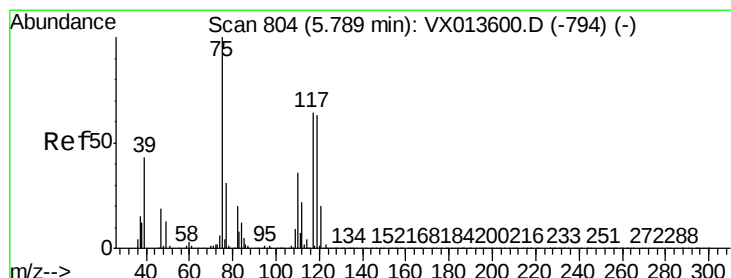
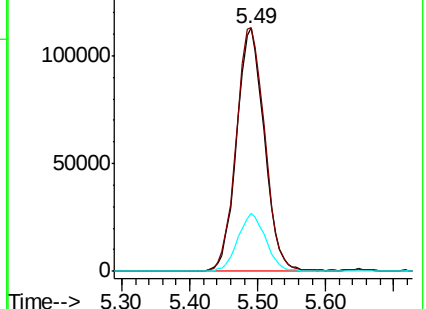
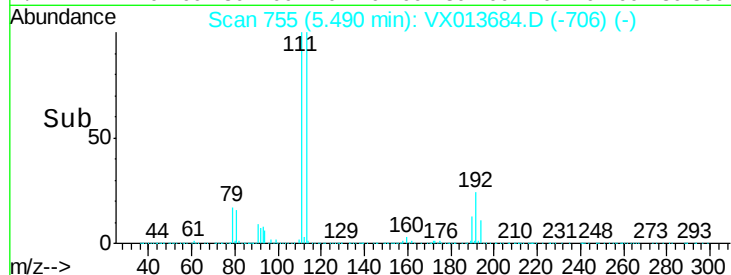
192 24.2 19.2 28.8



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: 4.710 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

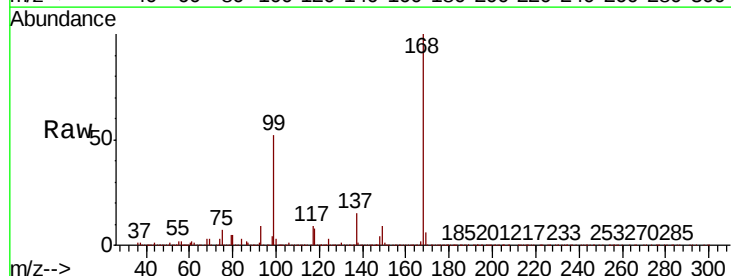
Tgt Ion: 75 Resp: 46349

Ion Ratio Lower Upper

75 100

110 5.0 18.1 54.1#

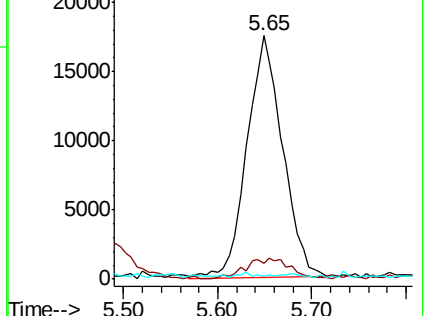
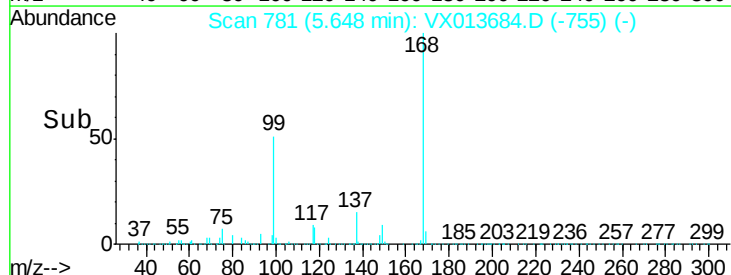
77 0.7 24.5 36.7#

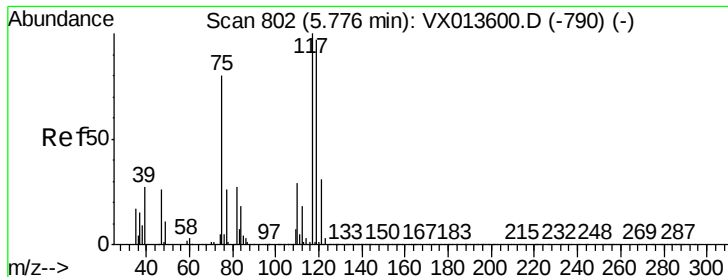


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.629 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

S39-0201

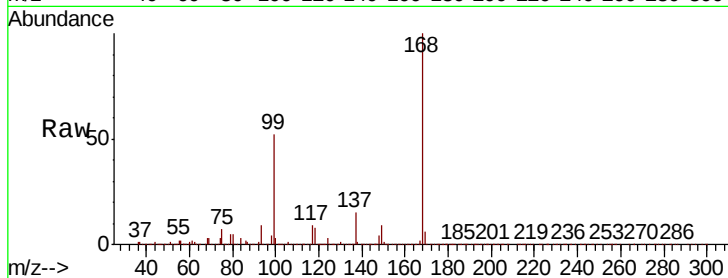
Tot Ion:117 Resp: 60145

Ion Ratio Lower Upper

117 100

119 4.5 77.5 116.3#

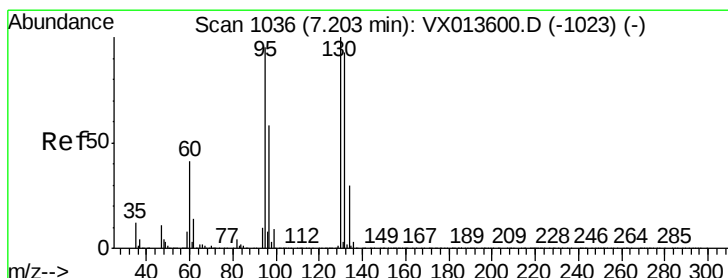
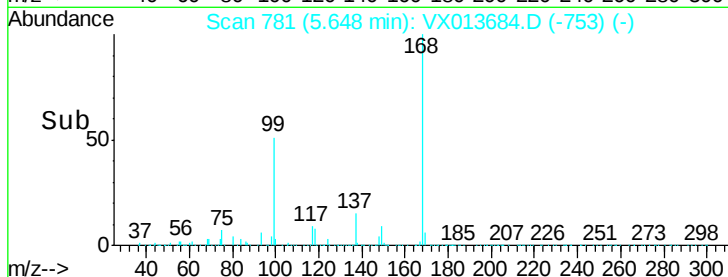
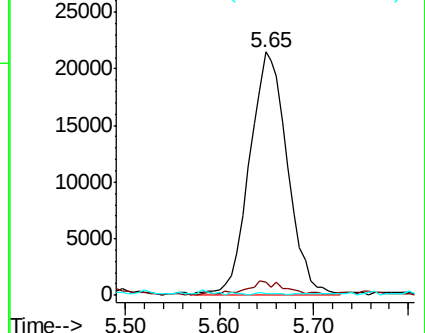
121 0.0 25.0 37.6#



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



#44

Trichloroethene

Concen: 2.640 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013684.D

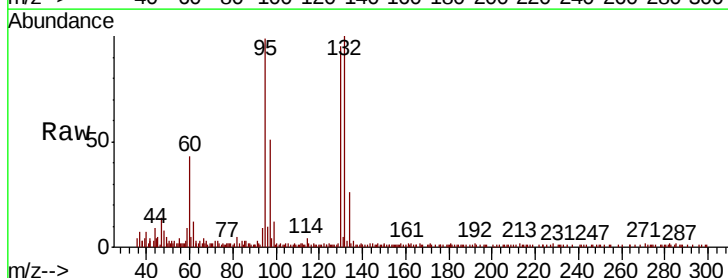
Acq: 28 Nov 2019 04:41

Tgt Ion:130 Resp: 21717

Ion Ratio Lower Upper

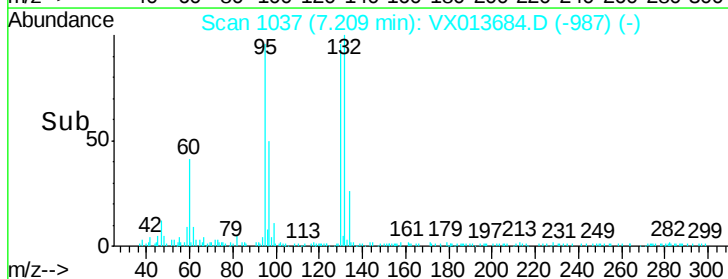
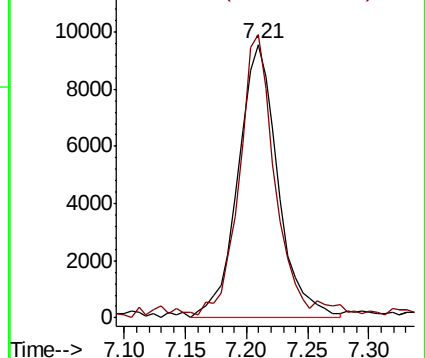
130 100

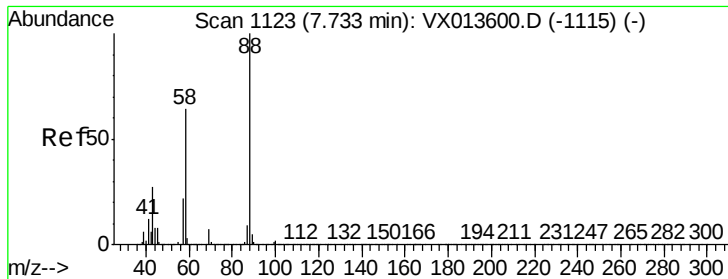
95 103.2 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.315 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

S39-0201

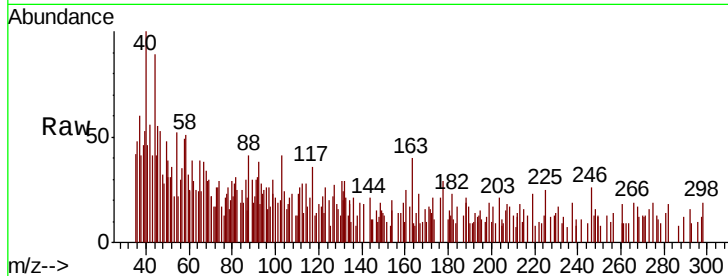
Tot Ion: 88 Resp: 260

Ion Ratio Lower Upper

88 100

43 298.1 25.8 38.6#

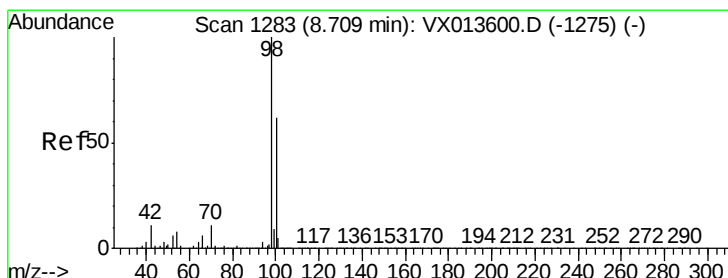
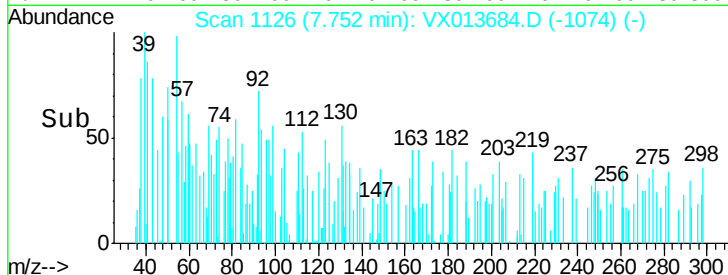
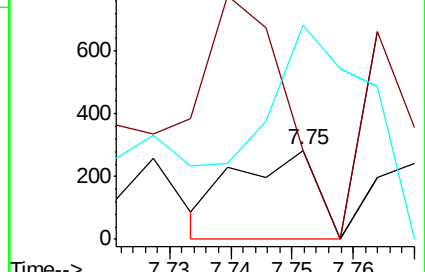
58 328.5 54.6 82.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.460 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013684.D

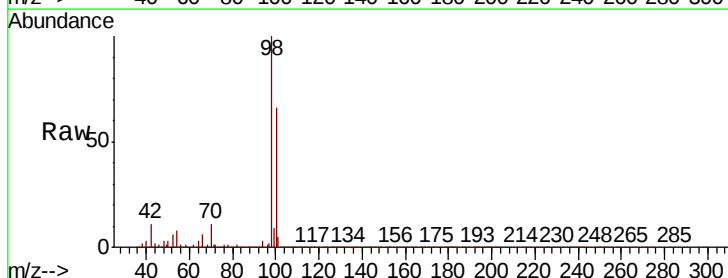
Acq: 28 Nov 2019 04:41

Tgt Ion: 98 Resp: 1265288

Ion Ratio Lower Upper

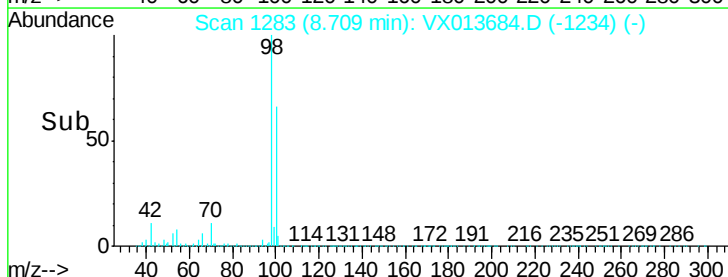
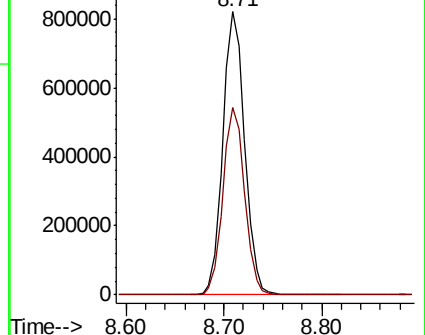
98 100

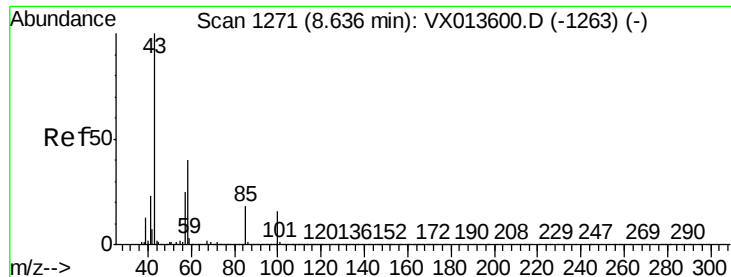
100 66.0 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.590 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

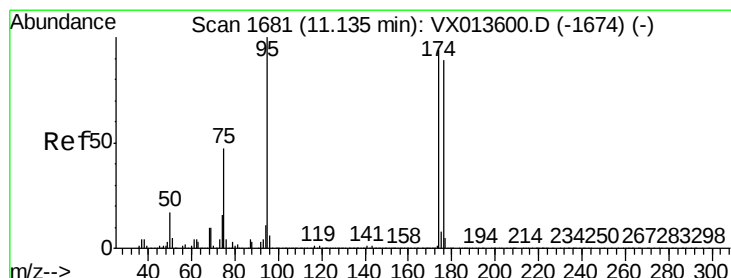
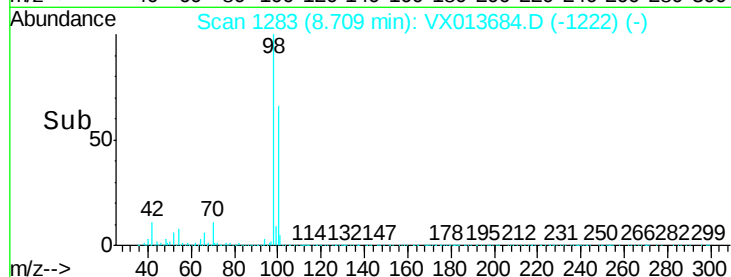
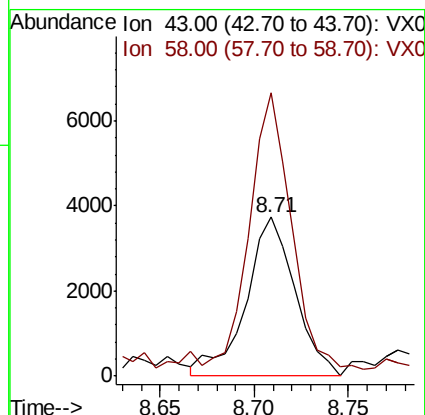
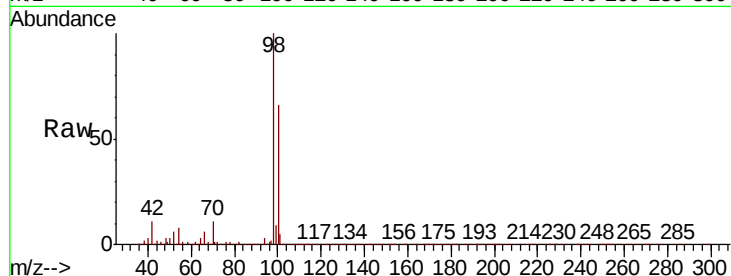
S39-0201

Tot Ion: 43 Resp: 6742

Ion Ratio Lower Upper

43 100

58 147.3 32.1 48.1#



#62

4-Bromofluorobenzene

Concen: 45.751 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

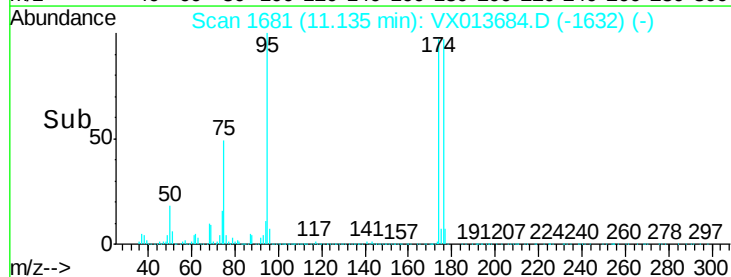
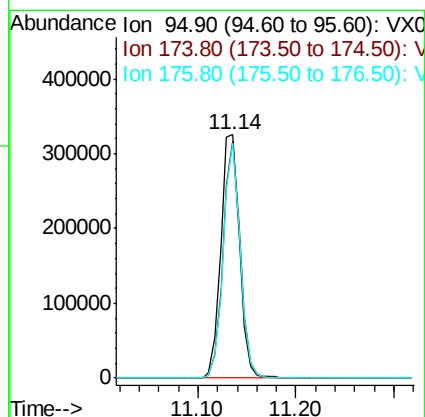
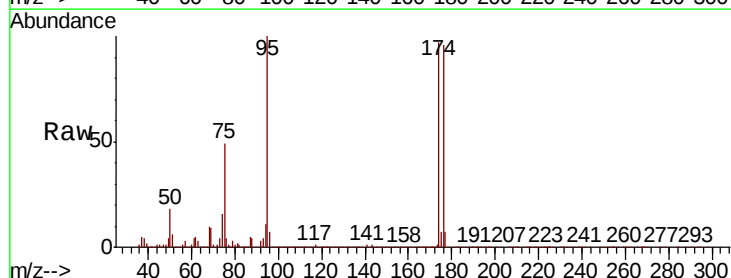
Tgt Ion: 95 Resp: 430762

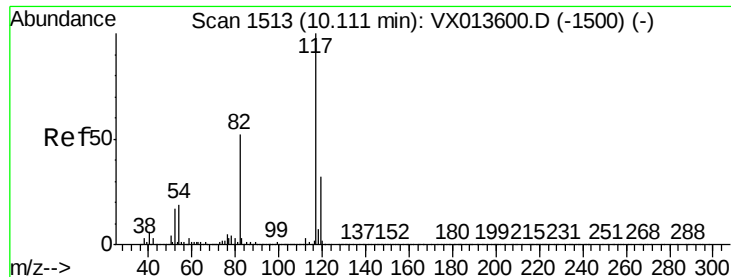
Ion Ratio Lower Upper

95 100

174 89.6 0.0 180.0

176 87.6 0.0 173.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

S39-0201

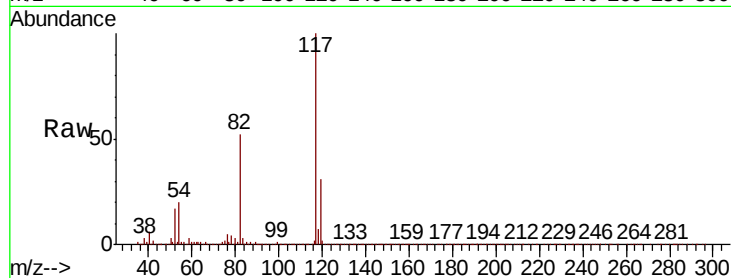
Tot Ion:117 Resp: 965735

Ion Ratio Lower Upper

117 100

82 52.2 41.8 62.8

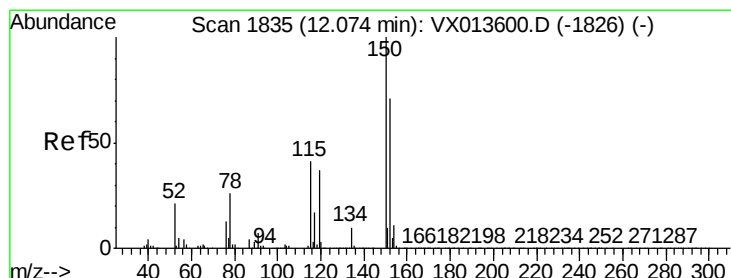
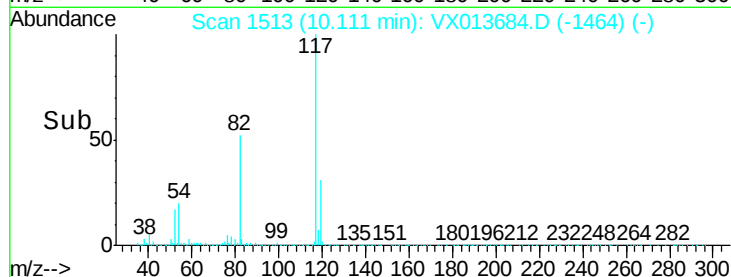
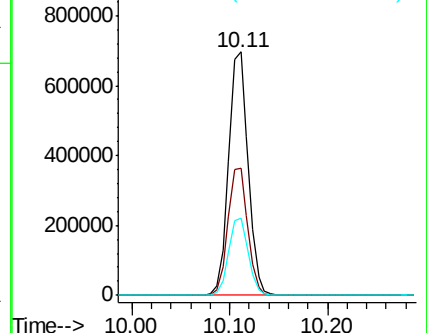
119 31.4 25.8 38.8



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

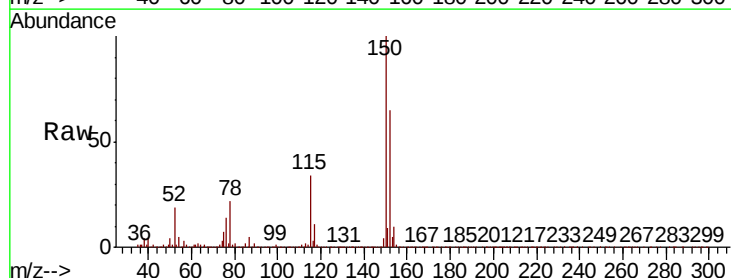
Tgt Ion:152 Resp: 434423

Ion Ratio Lower Upper

152 100

115 53.9 38.4 115.1

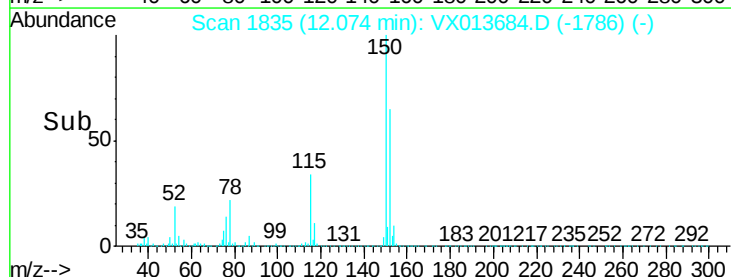
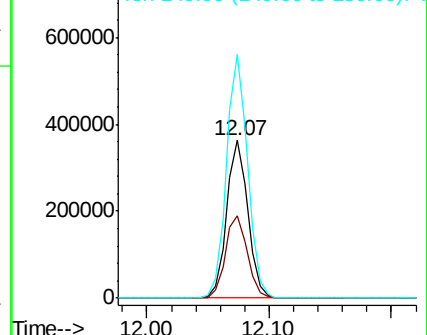
150 154.8 0.0 346.8

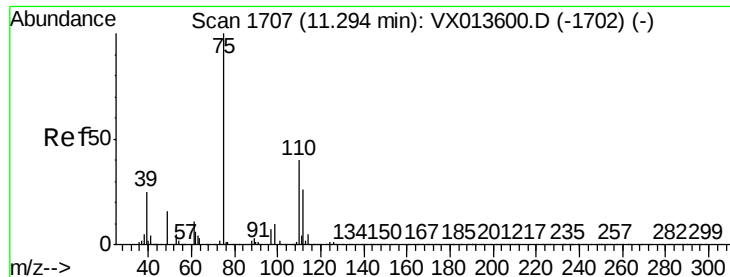


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.601 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

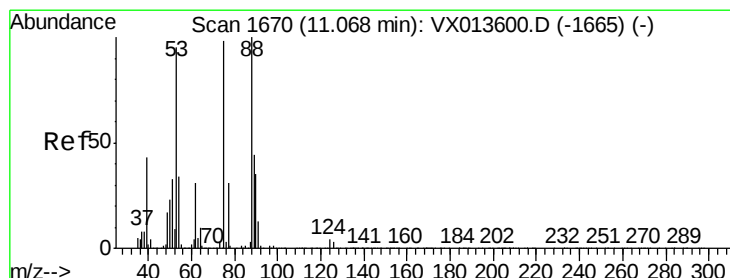
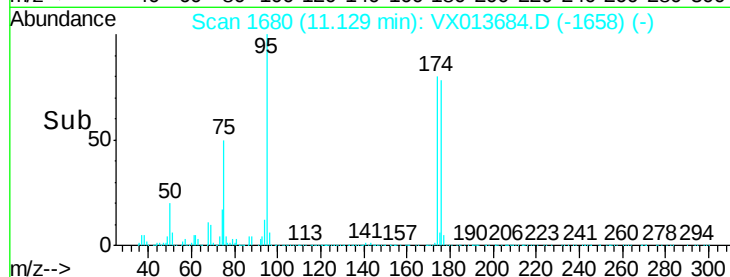
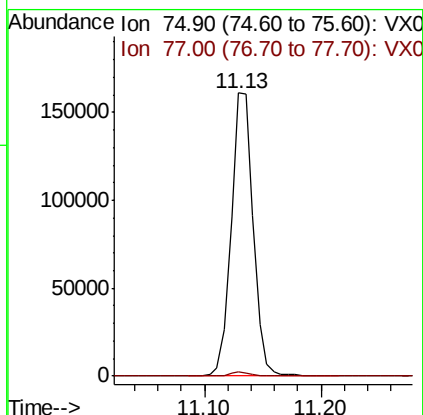
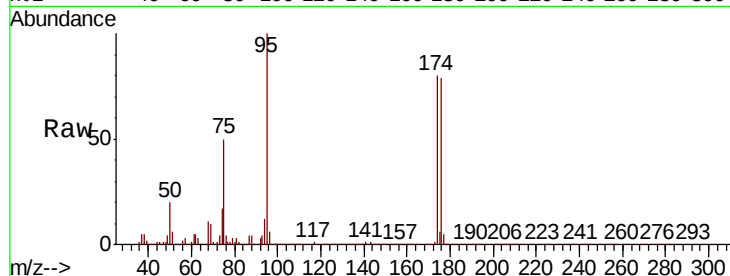
S39-0201

Tot Ion: 75 Resp: 211064

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.097 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

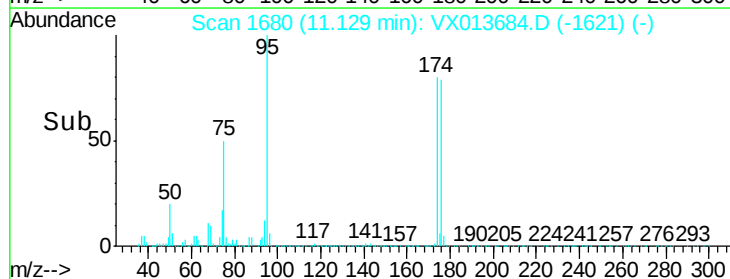
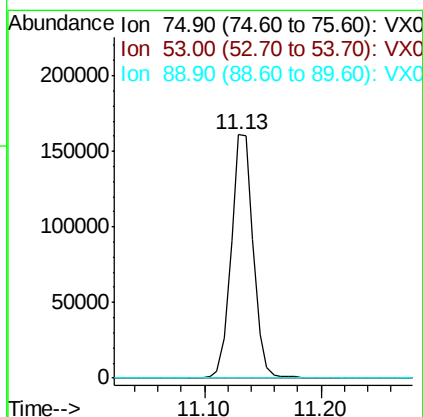
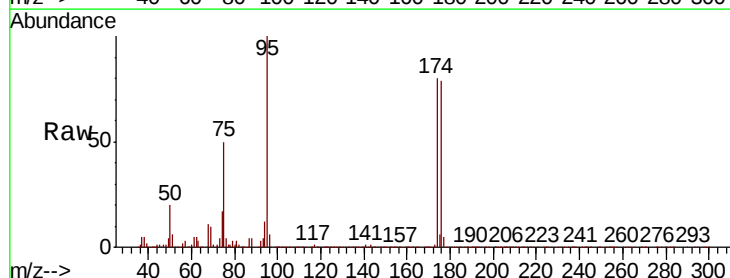
Tgt Ion: 75 Resp: 211064

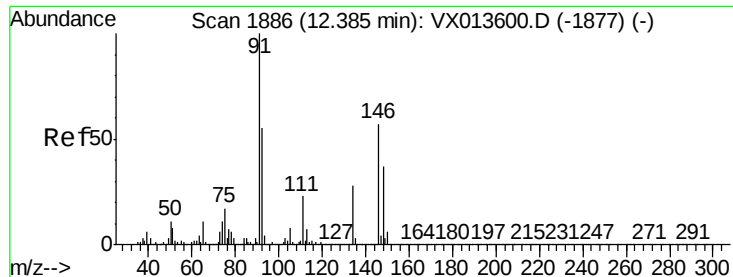
Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.2#

89 0.0 35.4 53.2#





#91

1,2-Dichlorobenzene

Concen: 0.903 ug/l

RT: 12.39 min Scan# 1887

Delta R.T. 0.01 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Instrument :

MSVOA_X

ClientSampleId :

S39-0201

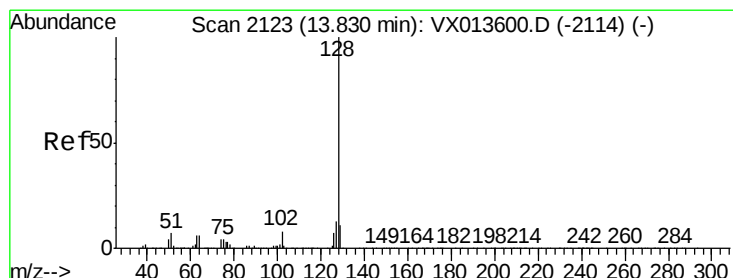
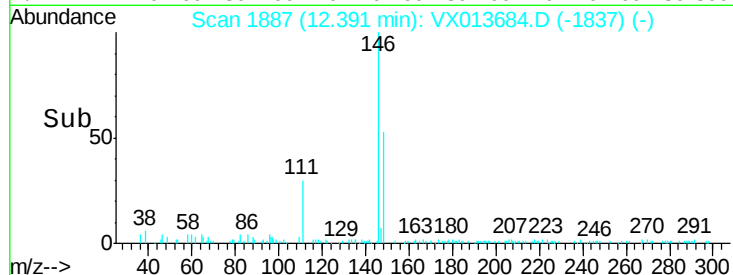
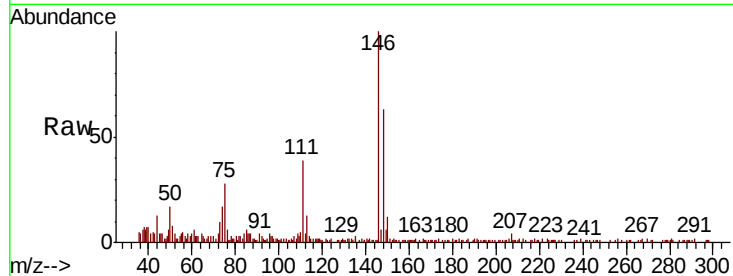
Tot Ion:146 Resp: 12808

Ion Ratio Lower Upper

146 100

111 39.5 19.6 58.7

148 64.9 31.9 95.7



#95

Naphthalene

Concen: 0.310 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013684.D

Acq: 28 Nov 2019 04:41

Tgt Ion:128 Resp: 9135

Ion Ratio Lower Upper

128 100

127 11.8 10.3 15.5

129 16.4 8.7 13.1#

