

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120319\
 Data File : VX013730.D
 Acq On : 03 Dec 2019 17:21
 Operator : JC/SP
 Sample : K5984-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0197

Quant Time: Dec 04 00:37:49 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	699663	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1064134	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	948335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	438052	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	388007	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
35) Dibromofluoromethane	5.49	113	315929	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
50) Toluene-d8	8.71	98	1254592	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
62) 4-Bromofluorobenzene	11.14	95	429208	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	

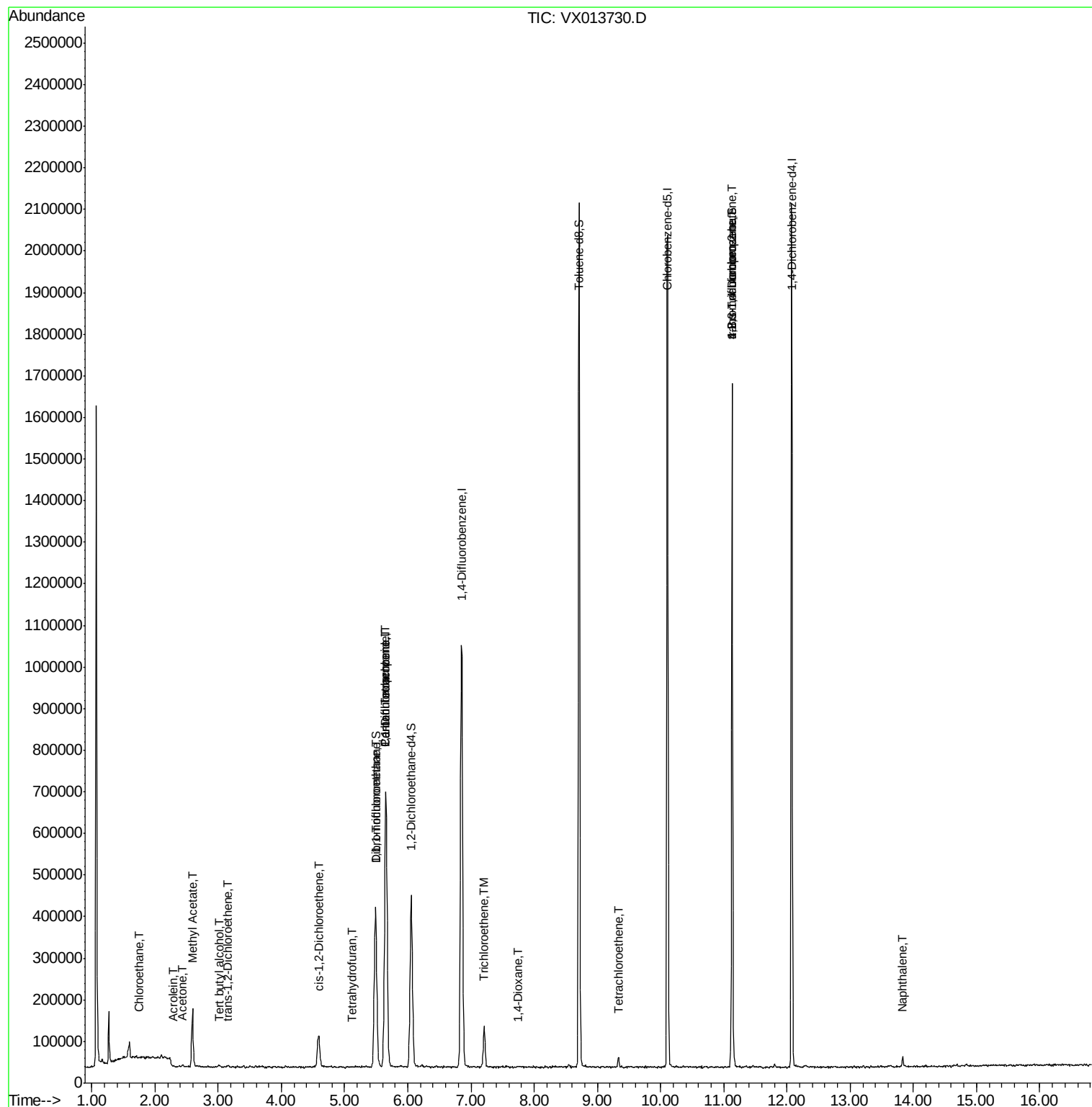
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.75	64	2140	0.382	ug/l #	51
11) Tert butyl alcohol	3.02	59	4631	2.310	ug/l	98
13) Acrolein	2.29	56	180	6.135	ug/l #	1
16) Acetone	2.44	43	3258	0.813	ug/l	96
18) Methyl Acetate	2.59	43	38931	3.487	ug/l #	52
21) trans-1,2-Dichloroethene	3.16	96	1671	0.230	ug/l #	60
27) cis-1,2-Dichloroethene	4.59	96	50866	6.106	ug/l	90
29) Tetrahydrofuran	5.11	42	770	0.210	ug/l	88
32) 1,1,1-Trichloroethane	5.49	97	16134	1.497	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	48293	4.999	ug/l #	51
38) Carbon Tetrachloride	5.65	117	61158	6.866	ug/l #	15
44) Trichloroethene	7.21	130	40115	4.968	ug/l	99
49) 1,4-Dioxane	7.74	88	1276	6.576	ug/l #	35
64) Tetrachloroethene	9.34	164	5566	0.787	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	211763	21.493	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	211763	58.802	ug/l #	11
95) Naphthalene	13.83	128	17422	0.587	ug/l #	92

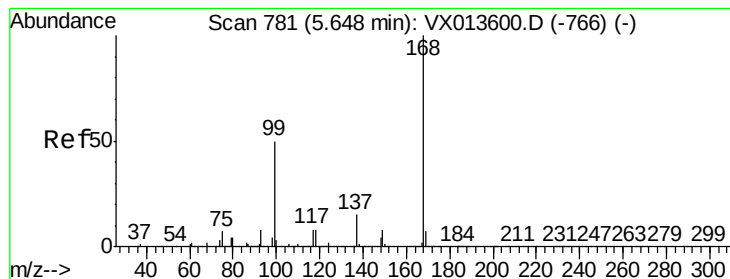
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

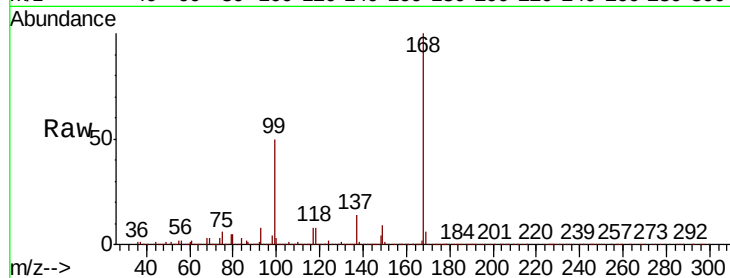
S39-0197

Tot Ion:168 Resp: 699663

Ion Ratio Lower Upper

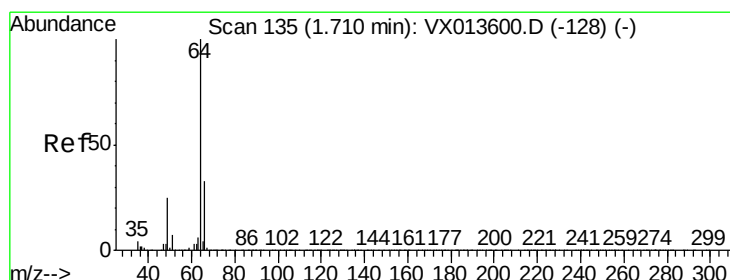
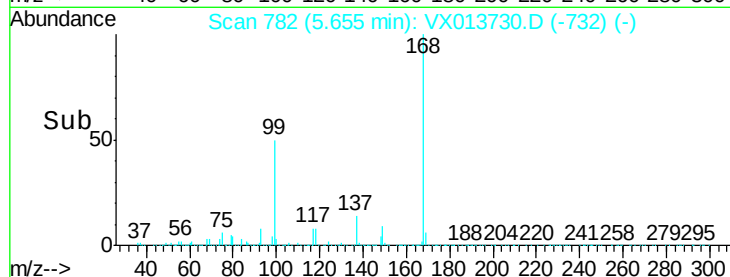
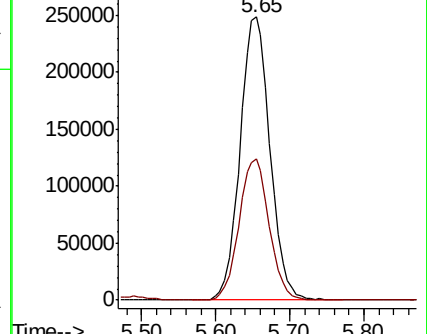
168 100

99 50.0 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 0.382 ug/l

RT: 1.75 min Scan# 141

Delta R.T. 0.04 min

Lab File: VX013730.D

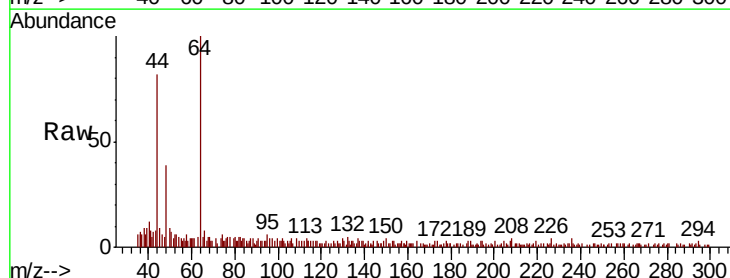
Acq: 03 Dec 2019 17:21

Tgt Ion: 64 Resp: 2140

Ion Ratio Lower Upper

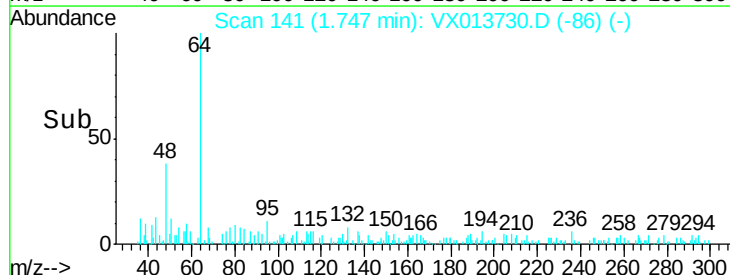
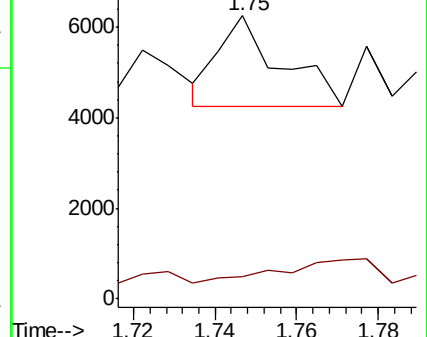
64 100

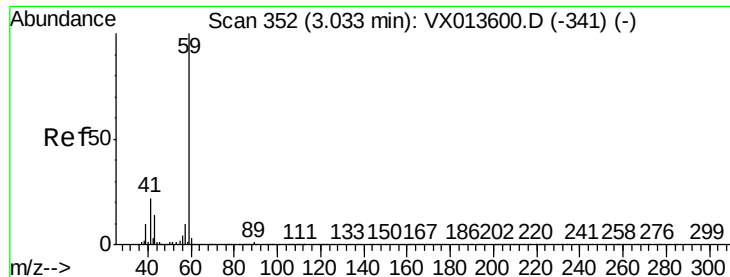
66 5.8 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

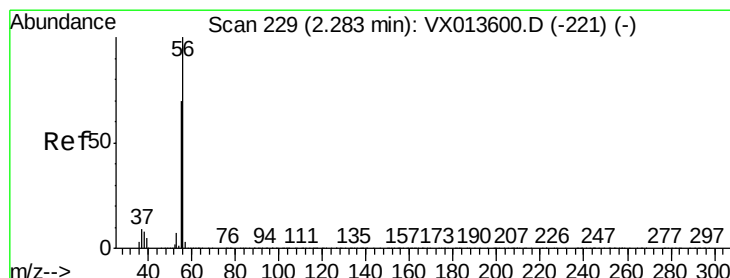
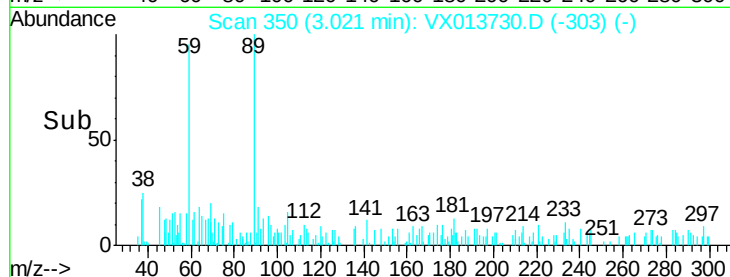
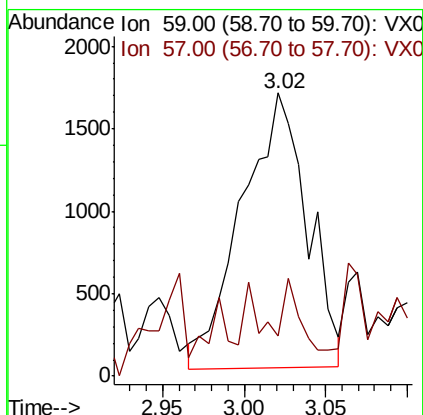
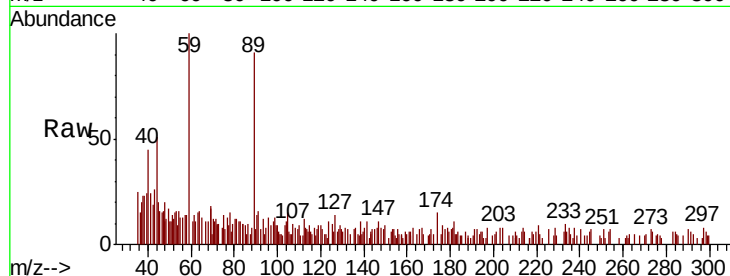




#11
Tert butyl alcohol
Concen: 2.310 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013730.D
Acq: 03 Dec 2019 17:21

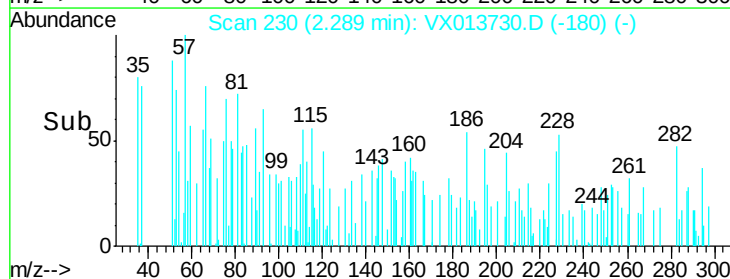
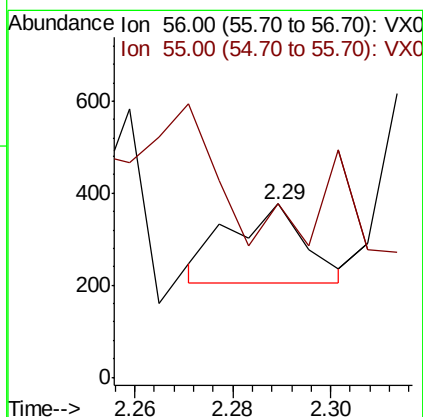
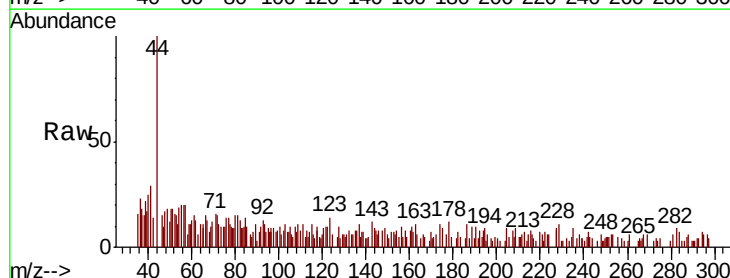
Instrument :
MSVOA_X
ClientSampleId :
S39-0197

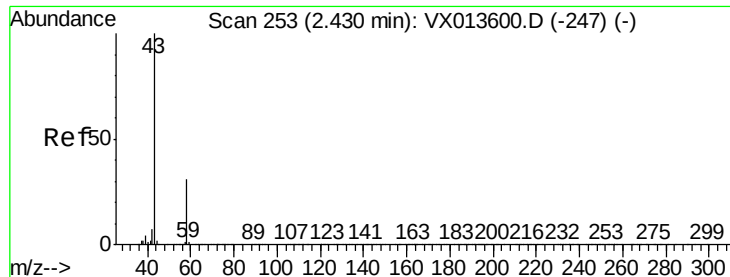
Tot Ion: 59 Resp: 4631
Ion Ratio Lower Upper
59 100
57 10.6 7.8 11.6



#13
Acrolein
Concen: 6.135 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX013730.D
Acq: 03 Dec 2019 17:21

Tgt Ion: 56 Resp: 180
Ion Ratio Lower Upper
56 100
55 253.9 56.2 84.4#

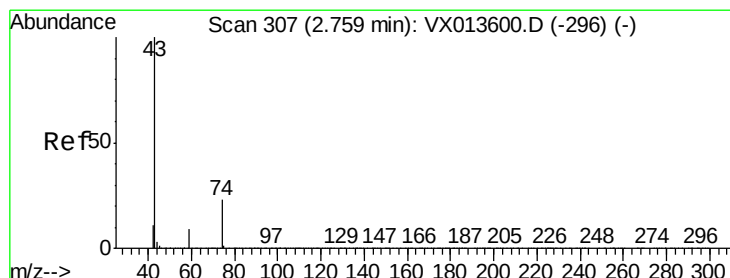
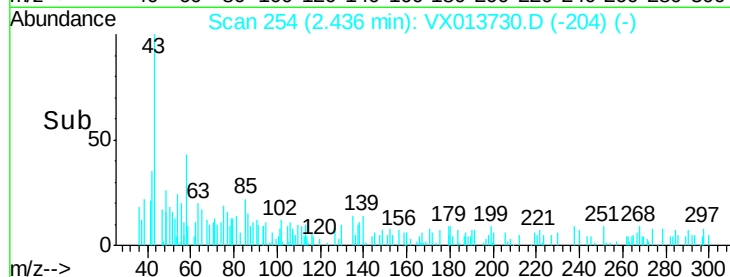
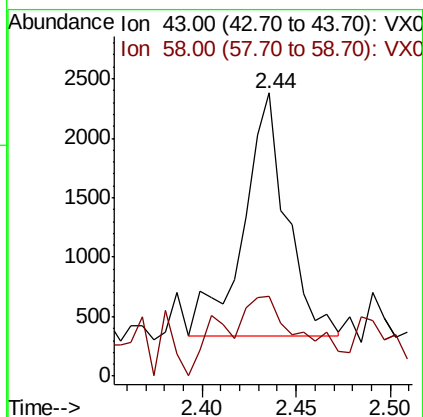
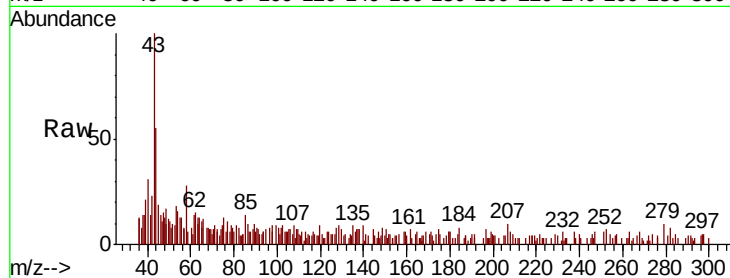




#16
Acetone
Concen: 0.813 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013730.D
Acq: 03 Dec 2019 17:21

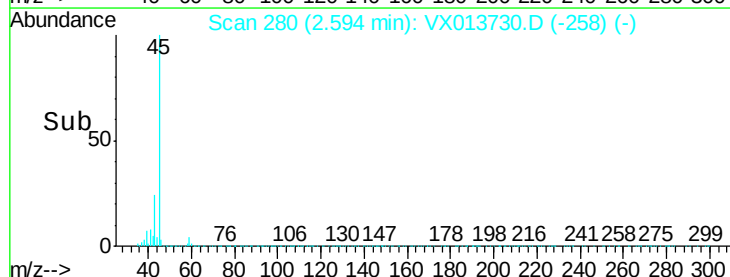
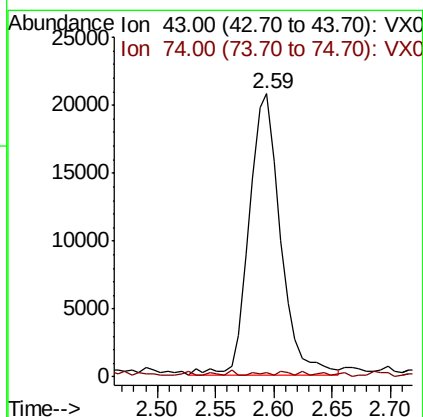
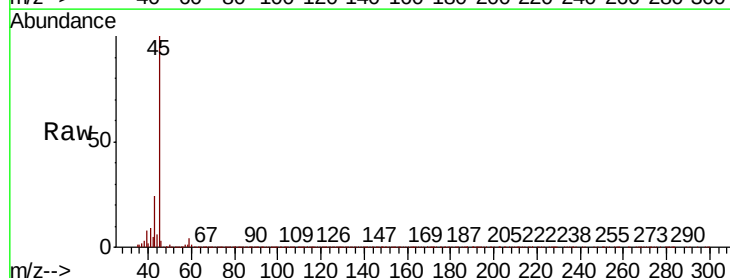
Instrument :
MSVOA_X
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S39-0197

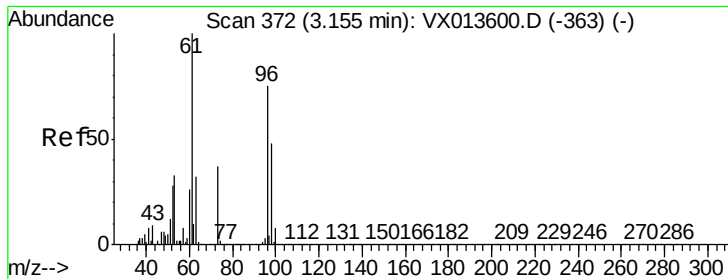
Tot Ion: 43 Resp: 3258
Ion Ratio Lower Upper
43 100
58 33.0 24.6 36.8



#18
Methyl Acetate
Concen: 3.487 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013730.D
Acq: 03 Dec 2019 17:21

Tgt Ion: 43 Resp: 38931
Ion Ratio Lower Upper
43 100
74 0.5 19.5 29.3#





#21

trans-1,2-Dichloroethene

Concen: 0.230 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

S39-0197

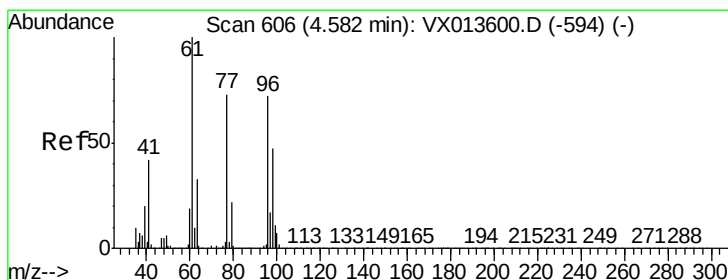
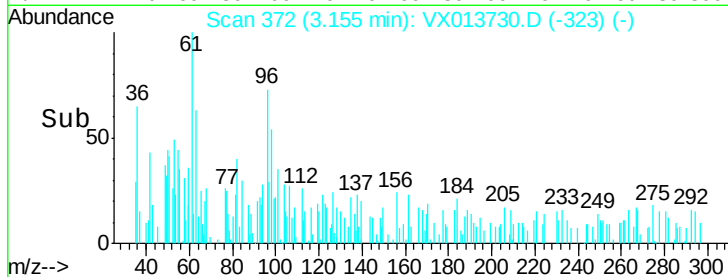
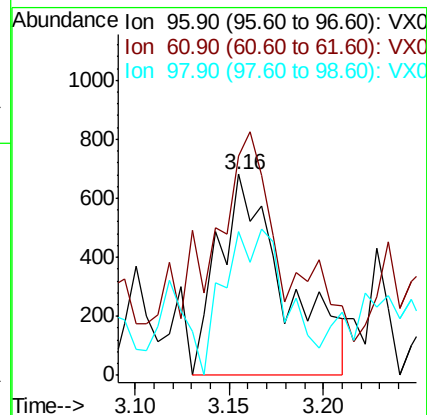
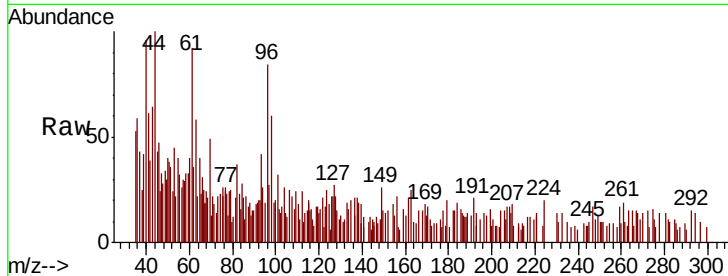
Tot Ion: 96 Resp: 1671

Ion Ratio Lower Upper

96 100

61 74.2 107.2 160.8#

98 49.9 51.4 77.0#



#27

cis-1,2-Dichloroethene

Concen: 6.106 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

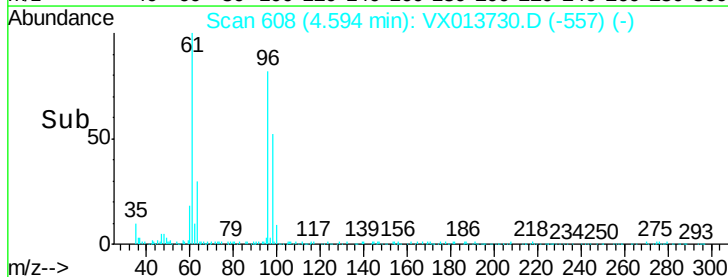
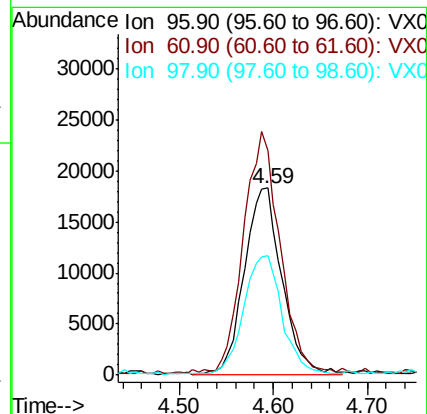
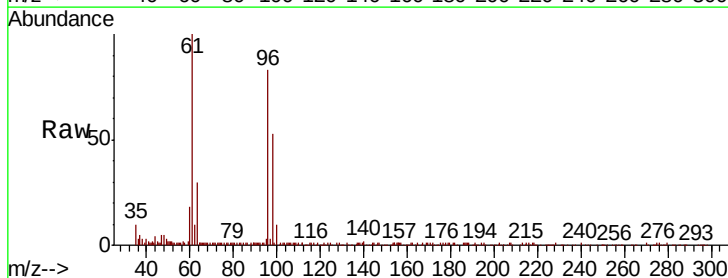
Tgt Ion: 96 Resp: 50866

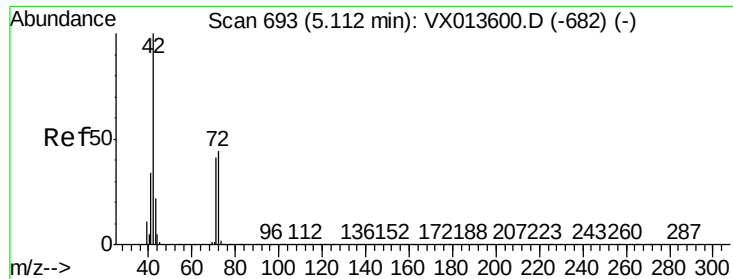
Ion Ratio Lower Upper

96 100

61 126.4 0.0 286.4

98 64.5 0.0 127.4

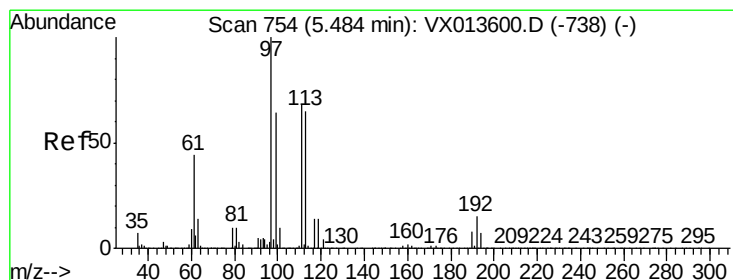
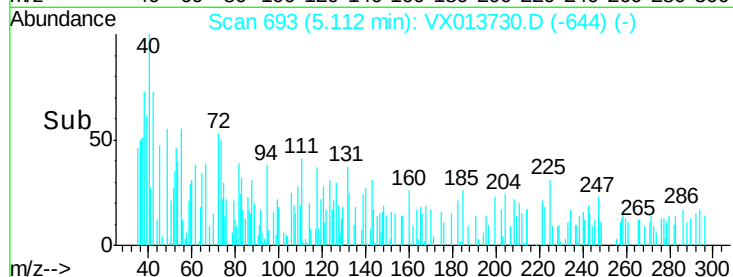
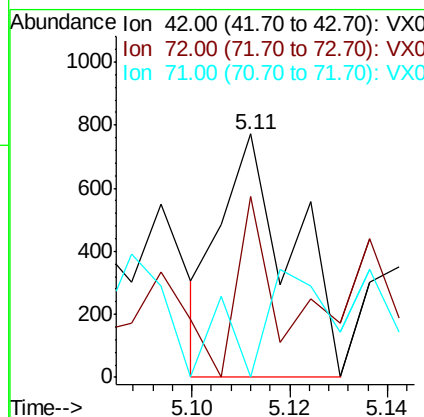
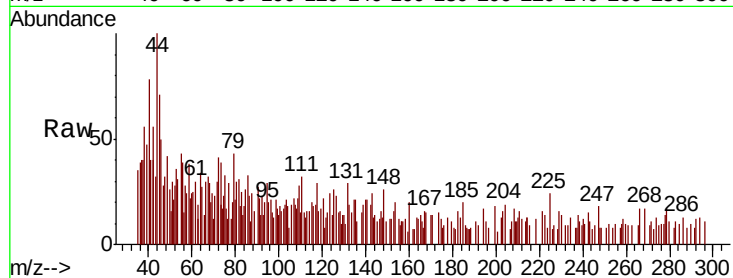




#29
Tetrahydrofuran
Concen: 0.210 ug/l
RT: 5.11 min Scan# 693
Delta R.T. 0.00 min
Lab File: VX013730.D
Acq: 03 Dec 2019 17:21

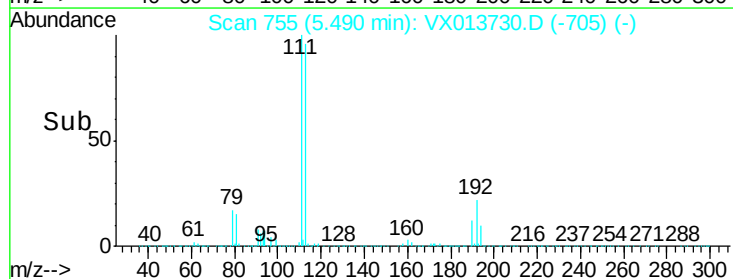
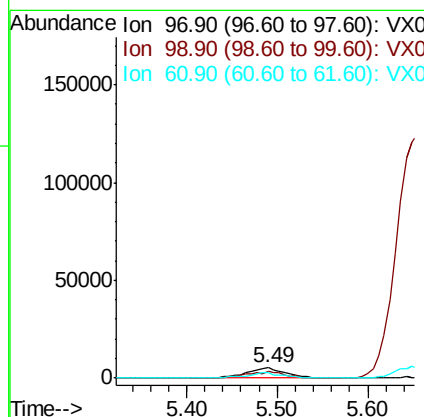
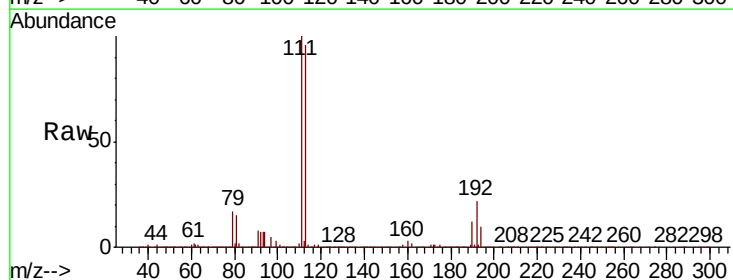
Instrument :
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ClientSampled :
S39-0197

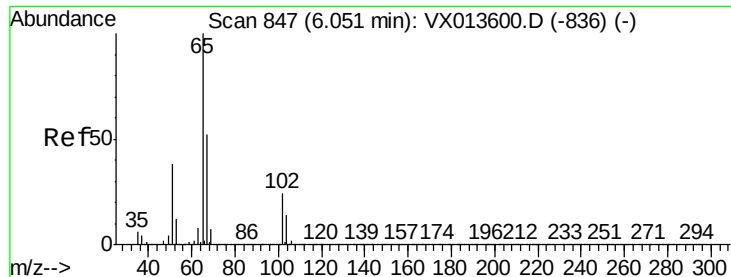
Tot Ion: 42 Resp: 770
Ion Ratio Lower Upper
42 100
72 52.5 36.3 54.5
71 49.4 33.2 49.8



#32
1,1,1-Trichloroethane
Concen: 1.497 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013730.D
Acq: 03 Dec 2019 17:21

Tgt Ion: 97 Resp: 16134
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 41.4 36.1 54.1

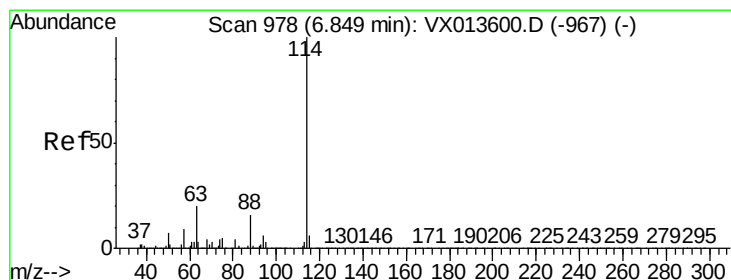
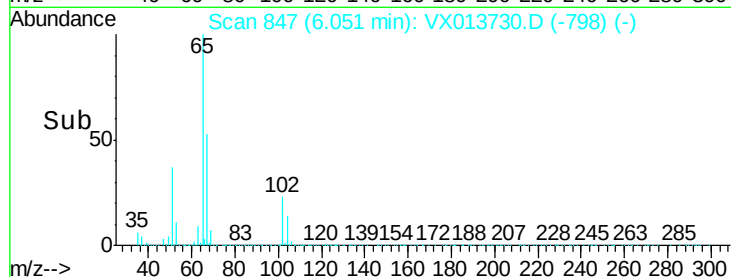
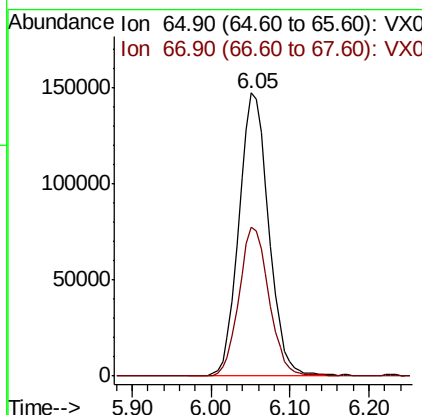
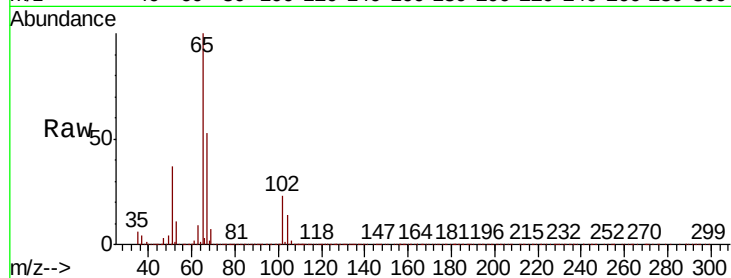




#33
 1,2-Dichloroethane-d4
 Concen: 47.775 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013730.D
 Acq: 03 Dec 2019 17:21

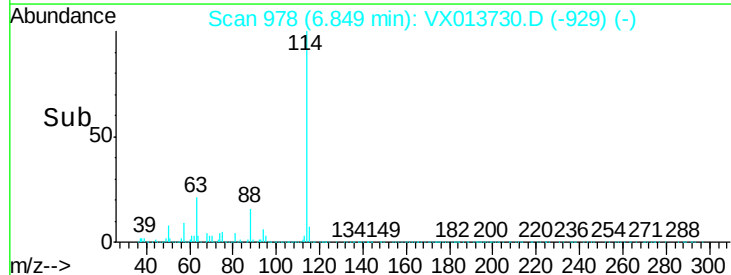
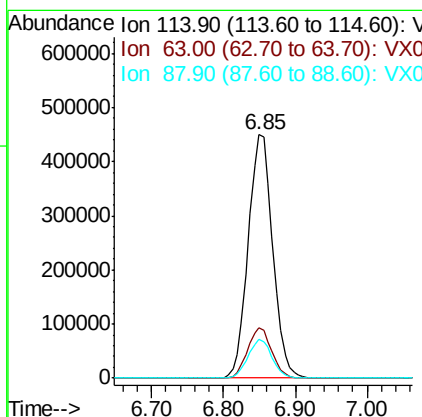
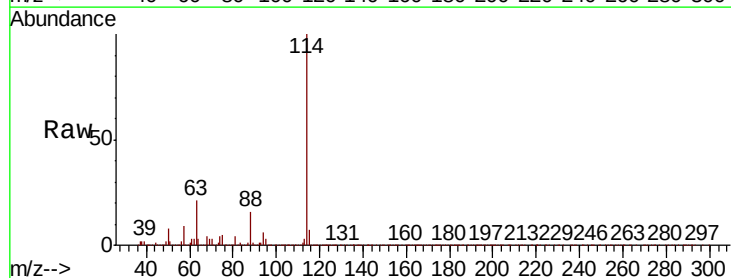
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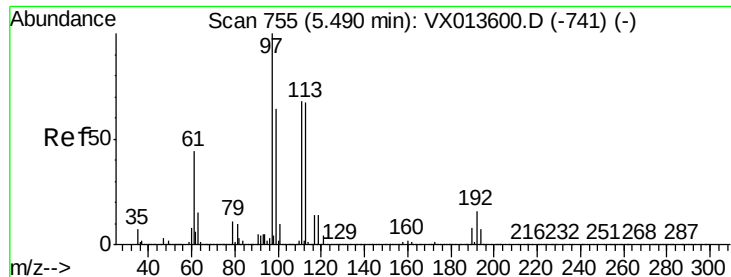
Tot Ion: 65 Resp: 388007
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013730.D
 Acq: 03 Dec 2019 17:21

Tgt Ion: 114 Resp: 1064134
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 39.6
 88 15.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.024 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

S39-0197

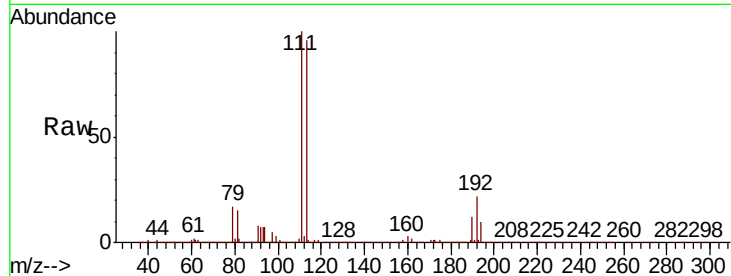
Tot Ion:113 Resp: 315929

Ion Ratio Lower Upper

113 100

111 103.0 83.6 125.4

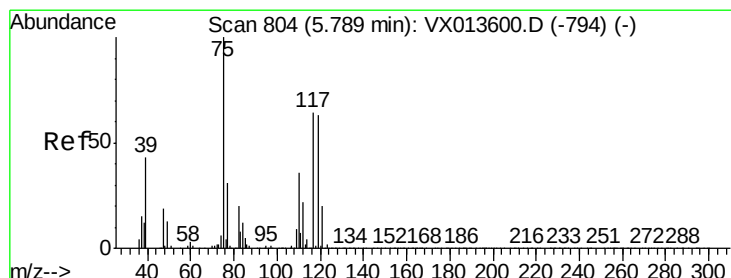
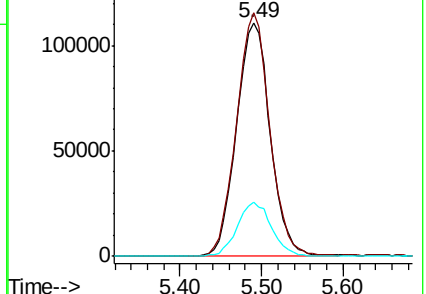
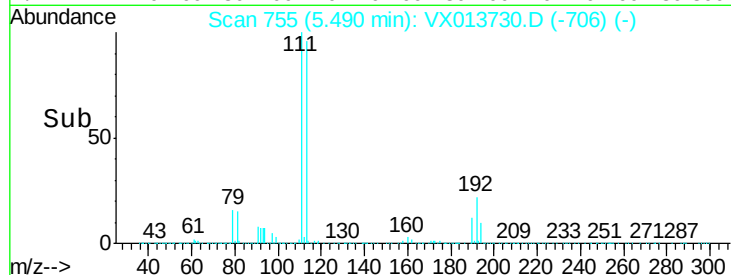
192 23.7 19.2 28.8



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: 4.999 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

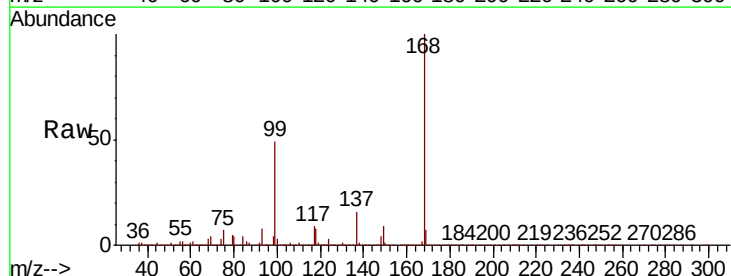
Tgt Ion: 75 Resp: 48293

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.1#

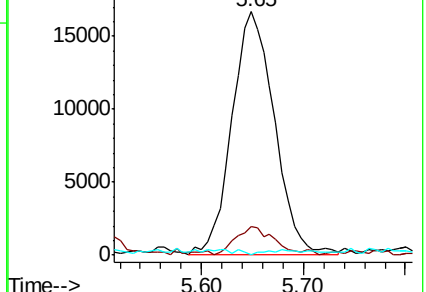
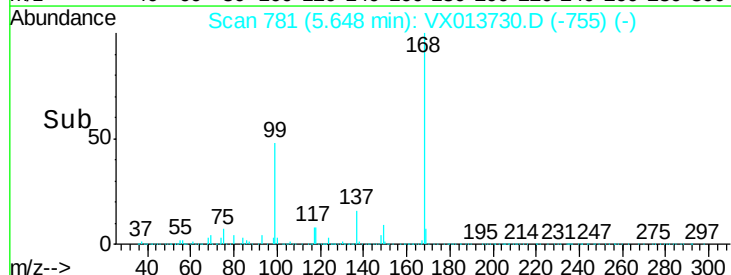
77 0.0 24.5 36.7#

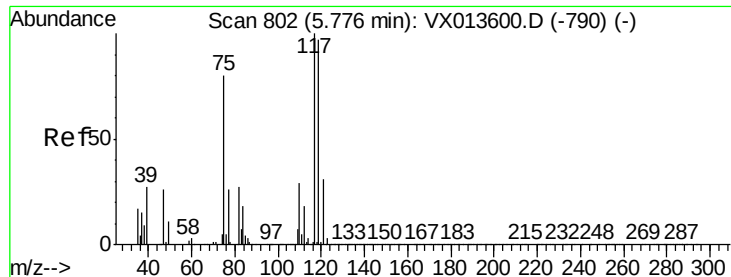


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.866 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

Instrument :

MSVOA_X

ClientSampled :

S39-0197

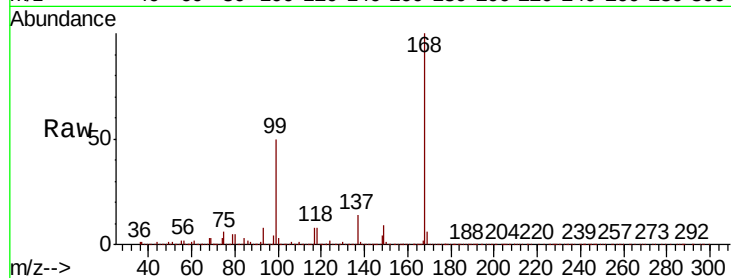
Tot Ion:117 Resp: 61158

Ion Ratio Lower Upper

117 100

119 4.2 77.5 116.3#

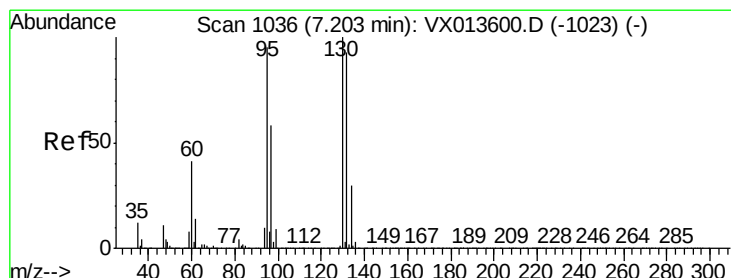
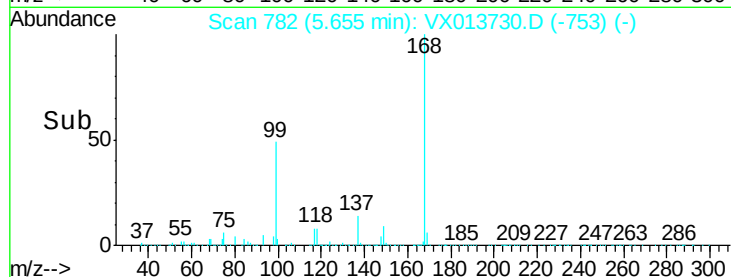
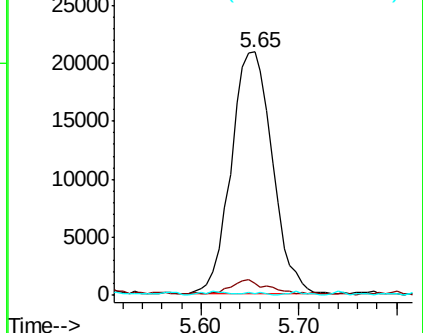
121 1.3 25.0 37.6#



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: 4.968 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013730.D

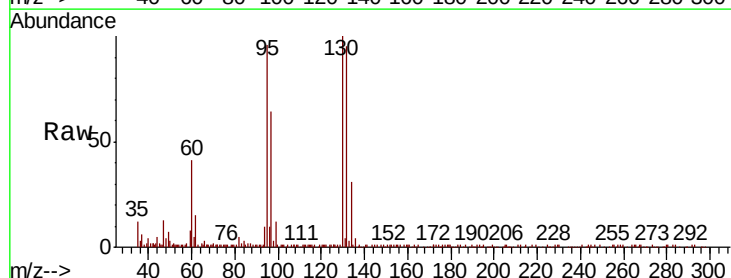
Acq: 03 Dec 2019 17:21

Tgt Ion:130 Resp: 40115

Ion Ratio Lower Upper

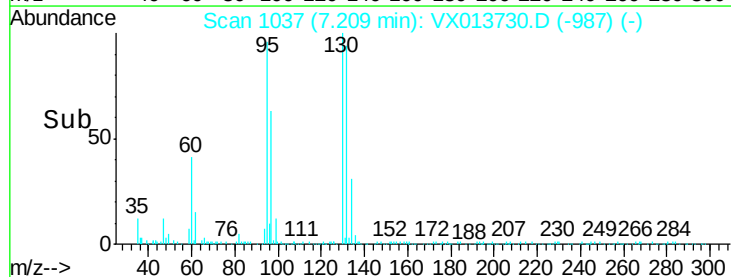
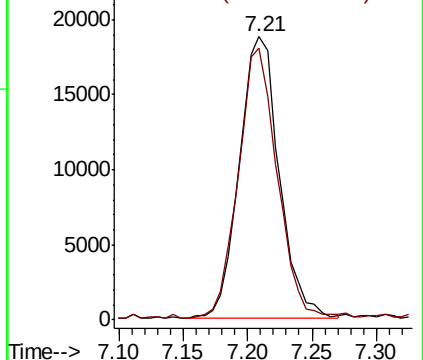
130 100

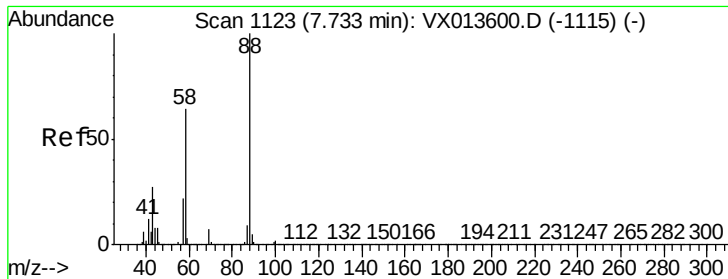
95 96.0 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 6.576 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

S39-0197

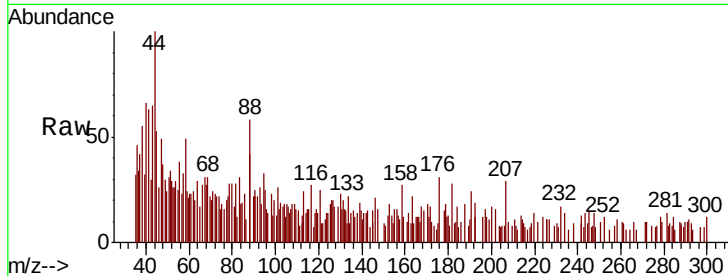
Tot Ion: 88 Resp: 1276

Ion Ratio Lower Upper

88 100

43 45.5 25.8 38.6#

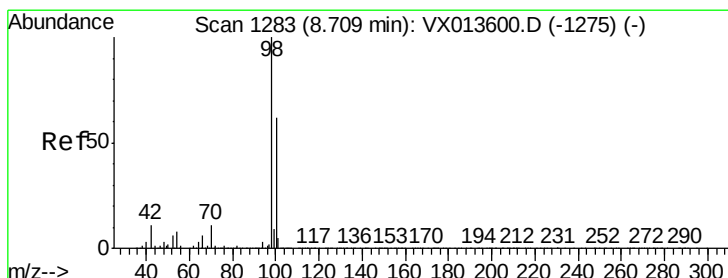
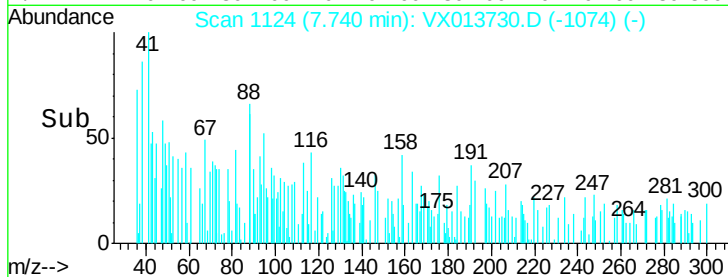
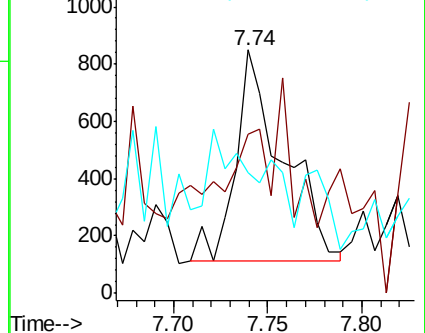
58 0.0 54.6 82.0#



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: 48.948 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013730.D

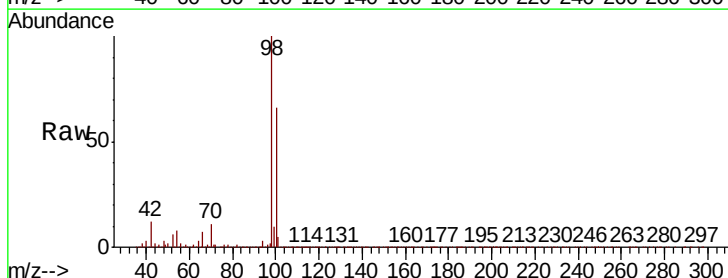
Acq: 03 Dec 2019 17:21

Tgt Ion: 98 Resp: 1254592

Ion Ratio Lower Upper

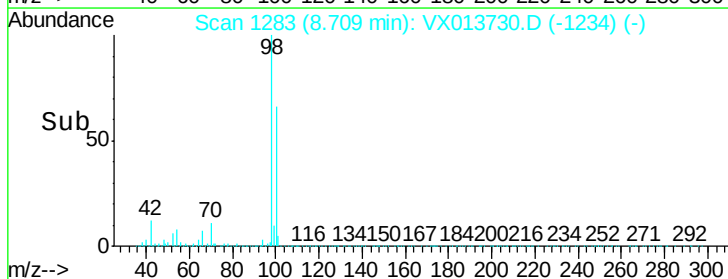
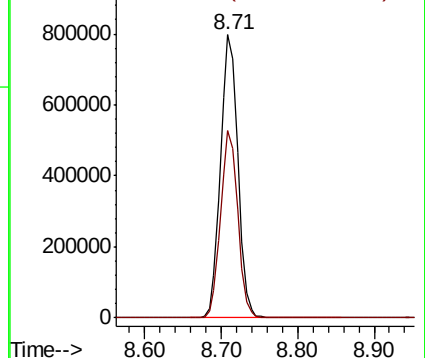
98 100

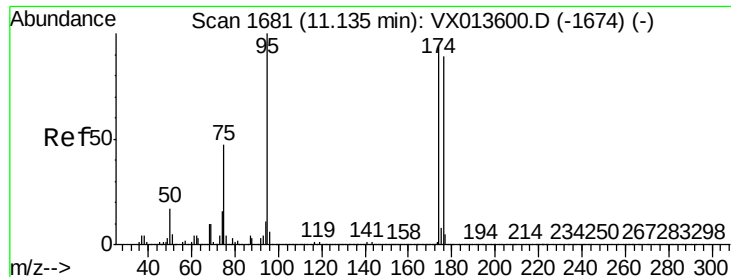
100 65.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

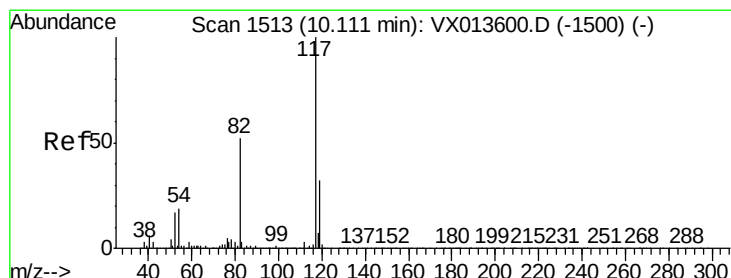
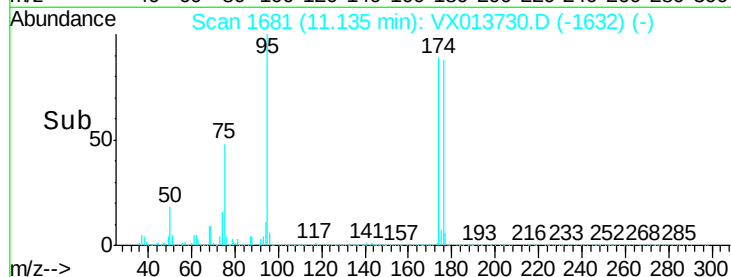
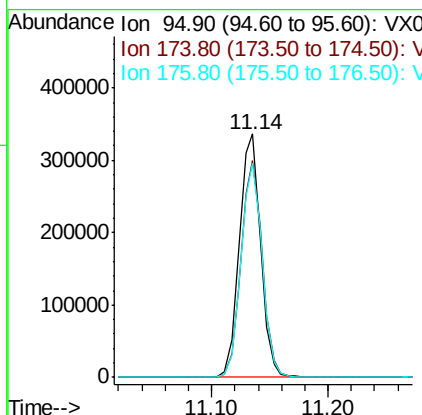
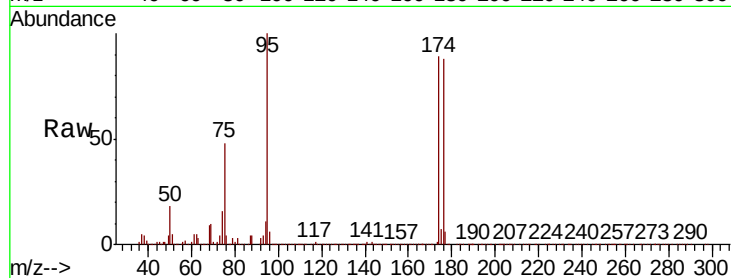




#62
4-Bromofluorobenzene
Concen: 46.438 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013730.D
Acq: 03 Dec 2019 17:21

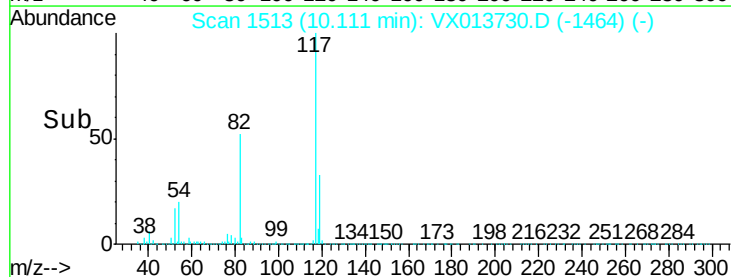
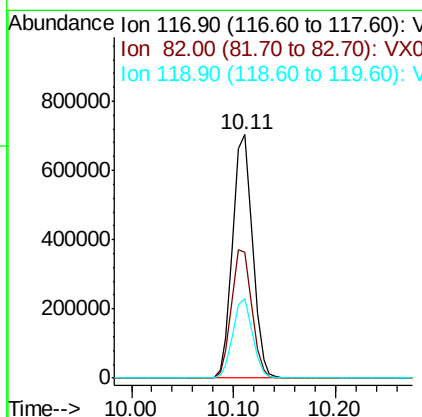
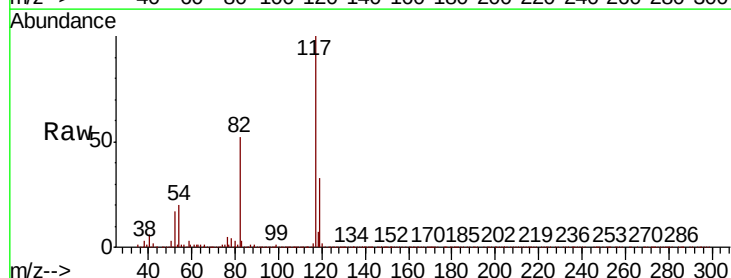
Instrument :
MSVOA_X
ClientSampleId :
S39-0197

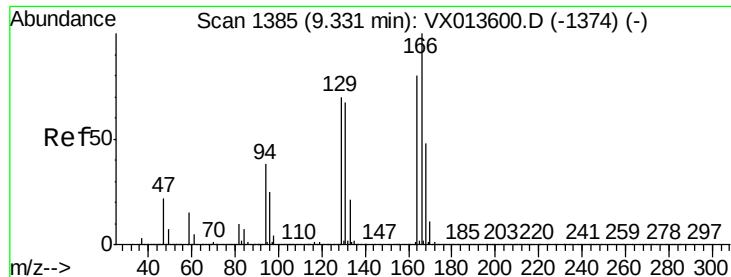
Tot Ion: 95 Resp: 429208
Ion Ratio Lower Upper
95 100
174 88.9 0.0 180.0
176 87.7 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013730.D
Acq: 03 Dec 2019 17:21

Tgt Ion: 117 Resp: 948335
Ion Ratio Lower Upper
117 100
82 51.5 41.8 62.8
119 33.0 25.8 38.8





#64

Tetrachloroethene

Concen: 0.787 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

S39-0197

Tot Ion:164 Resp: 5566

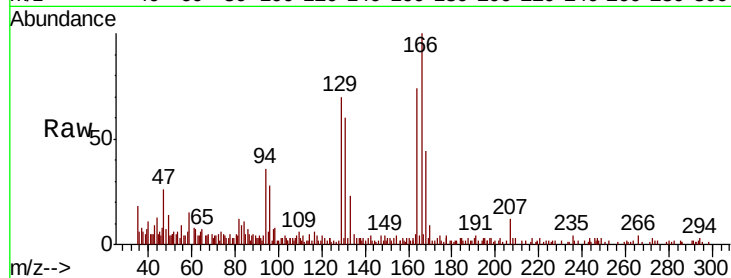
Ion Ratio Lower Upper

164 100

166 130.9 99.7 149.5

129 89.9 70.1 105.1

131 77.3 66.9 100.3

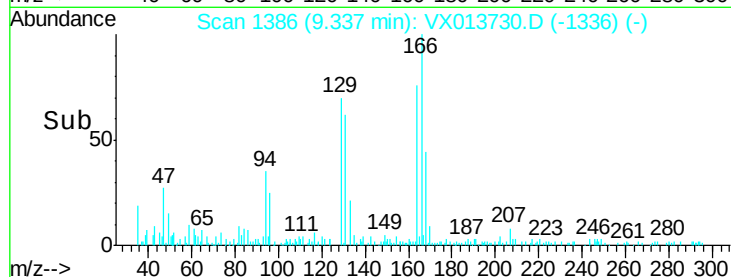


Abundance Ion 163.80 (163.50 to 164.50): V

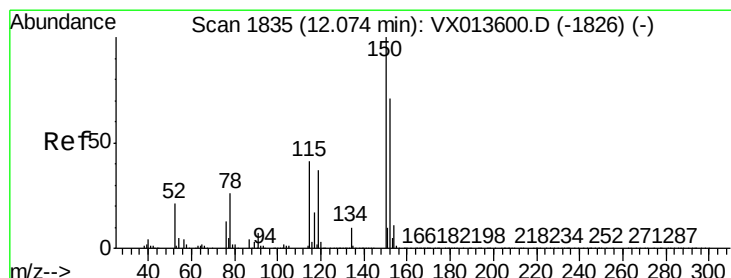
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

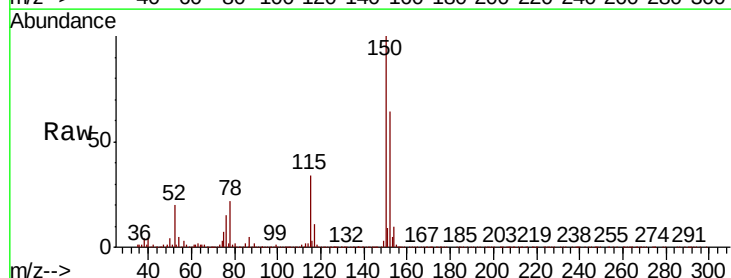
Tgt Ion:152 Resp: 438052

Ion Ratio Lower Upper

152 100

115 54.7 38.4 115.1

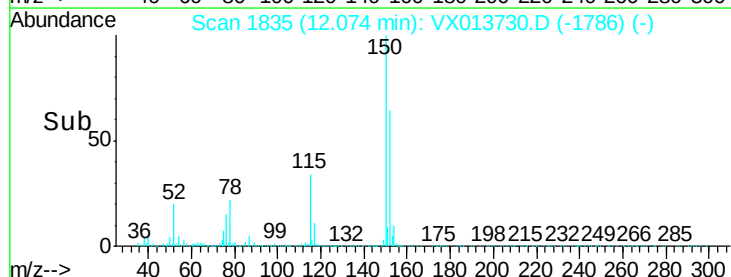
150 154.3 0.0 346.8



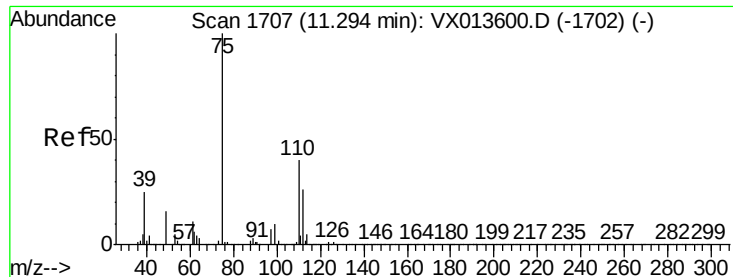
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.493 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

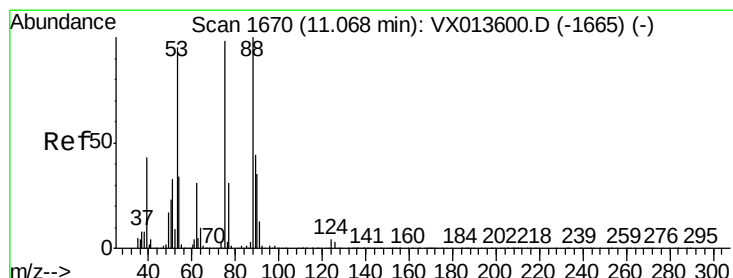
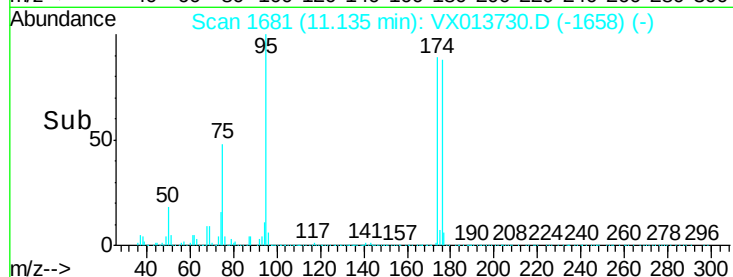
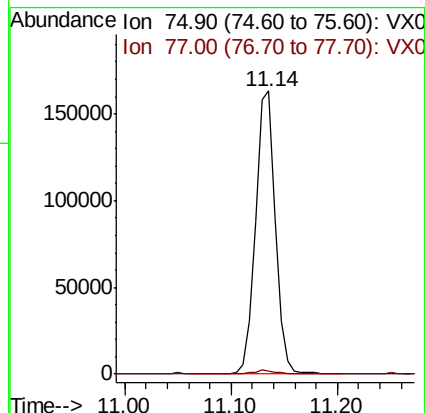
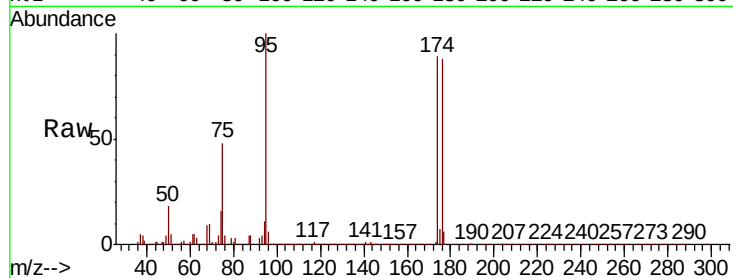
S39-0197

Tot Ion: 75 Resp: 211763

Ion Ratio Lower Upper

75 100

77 1.5 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.802 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

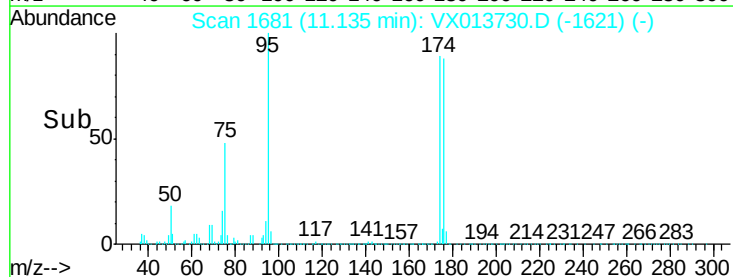
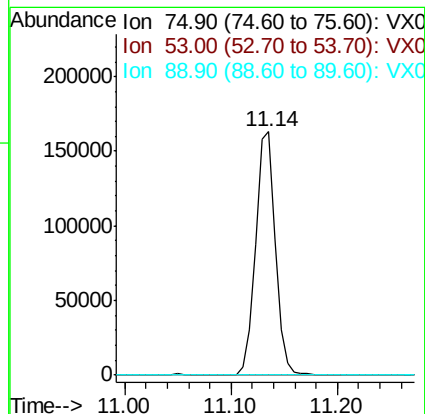
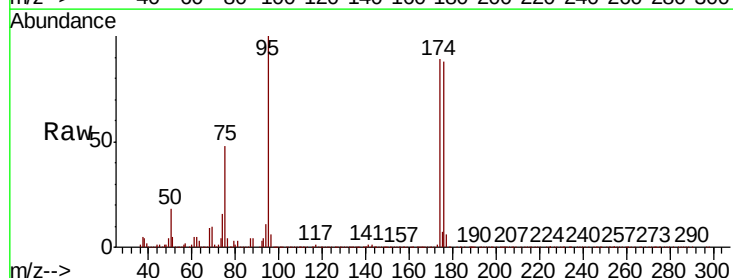
Tgt Ion: 75 Resp: 211763

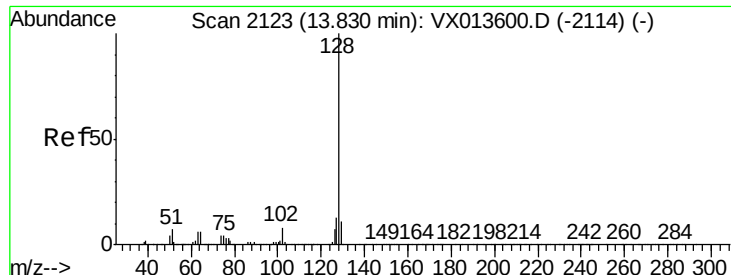
Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.0 35.4 53.2#





#95

Naphthalene

Concen: 0.587 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013730.D

Acq: 03 Dec 2019 17:21

Instrument :

MSVOA_X

ClientSampleId :

S39-0197

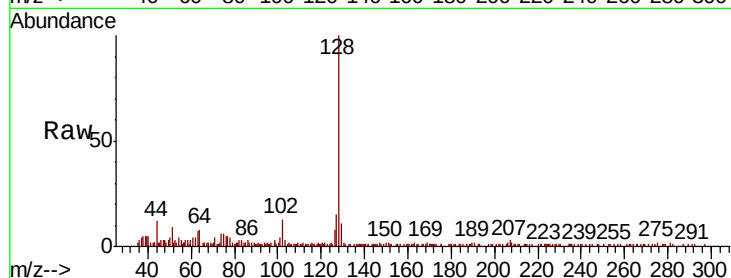
Tot Ion:128 Resp: 17422

Ion Ratio Lower Upper

128 100

127 18.5 10.3 15.5#

129 10.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

