

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112919\
 Data File : VX013706.D
 Acq On : 29 Nov 2019 17:10
 Operator : JC/SP
 Sample : K5965-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0194

Quant Time: Nov 29 22:30:20 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	684522	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1057611	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	934887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	411720	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	379641	47.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.56%	
35) Dibromofluoromethane	5.49	113	314234	48.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.12%	
50) Toluene-d8	8.71	98	1246031	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
62) 4-Bromofluorobenzene	11.14	95	413633	45.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.06%	

Target Compounds

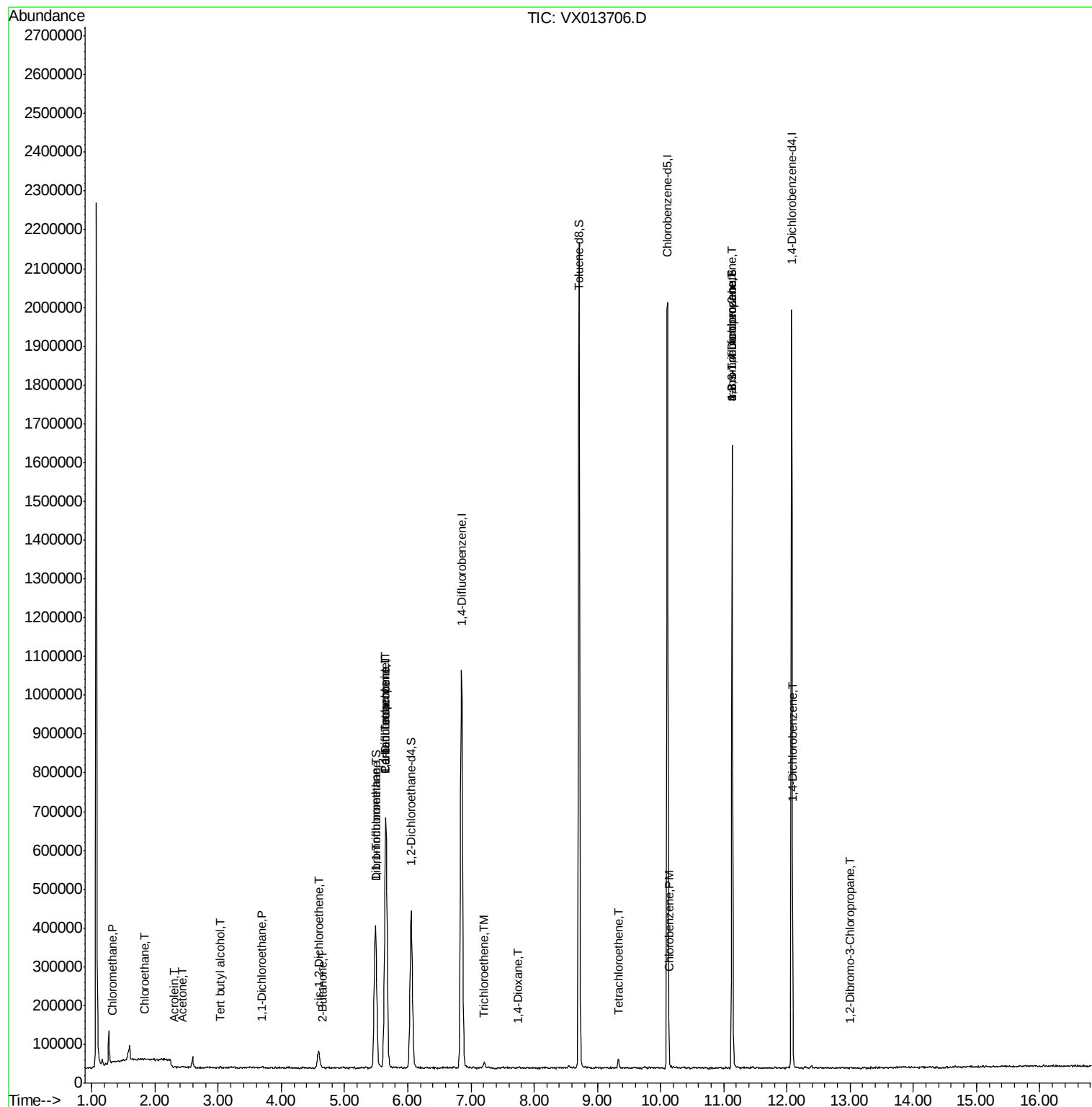
						Qvalue
3) Chloromethane	1.32	50	1800	0.211	ug/l #	29
6) Chloroethane	1.83	64	2524	0.461	ug/l	92
11) Tert butyl alcohol	3.03	59	1835	0.936	ug/l #	74
13) Acrolein	2.31	56	130	6.100	ug/l #	1
16) Acetone	2.43	43	4971	1.267	ug/l	97
24) 1,1-Dichloroethane	3.69	63	5484	0.441	ug/l	92
25) 2-Butanone	4.65	43	2000	0.343	ug/l #	52
27) cis-1,2-Dichloroethene	4.59	96	28813	3.535	ug/l	88
32) 1,1,1-Trichloroethane	5.48	97	8908	0.845	ug/l #	48
36) 1,1-Dichloropropene	5.65	75	45555	4.745	ug/l #	53
38) Carbon Tetrachloride	5.65	117	59096	6.676	ug/l #	15
44) Trichloroethene	7.21	130	7343	0.915	ug/l	86
49) 1,4-Dioxane	7.75	88	1012	5.248	ug/l #	73
64) Tetrachloroethene	9.34	164	4308	0.618	ug/l	94
65) Chlorobenzene	10.14	112	4534	0.234	ug/l #	81
76) 1,2,3-Trichloropropane	11.14	75	204347	22.067	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	204347	60.371	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	2848	0.206	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.99	75	645	0.296	ug/l	77

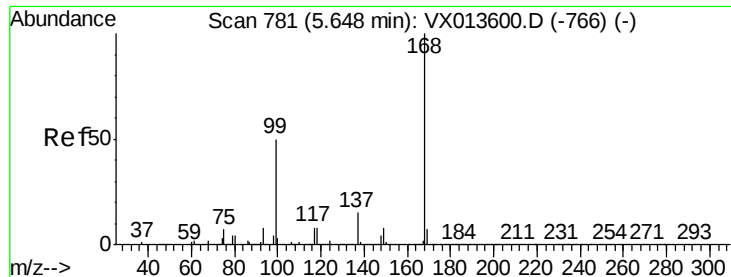
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 29 22:30:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
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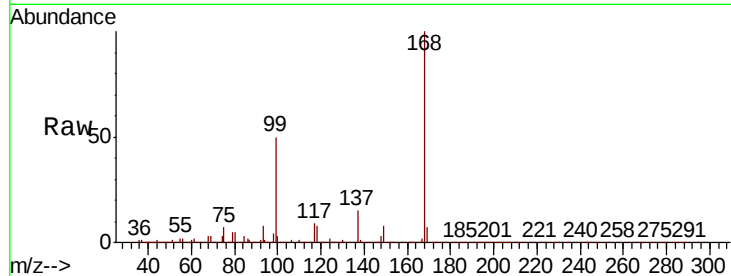


#1

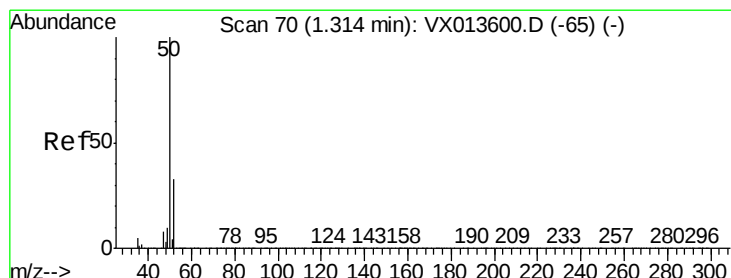
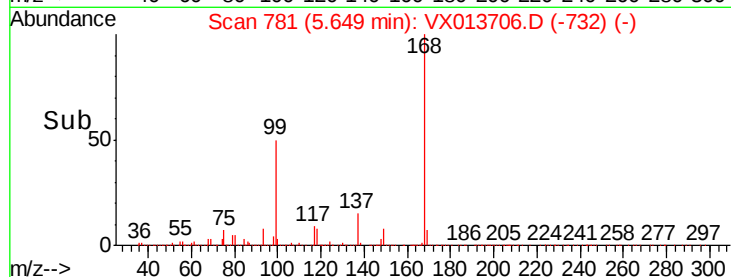
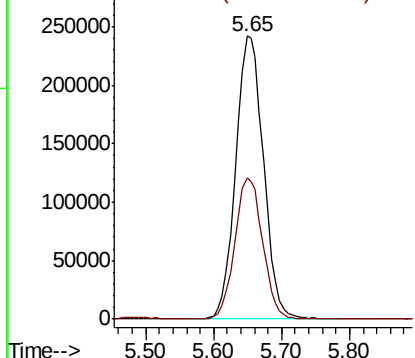
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. 0.00 min
 Lab File: VX013706.D
 Acq: 29 Nov 2019 17:10

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0194

Tot Ion:168 Resp: 684522
 Ion Ratio Lower Upper
 168 100
 99 49.8 39.8 59.8



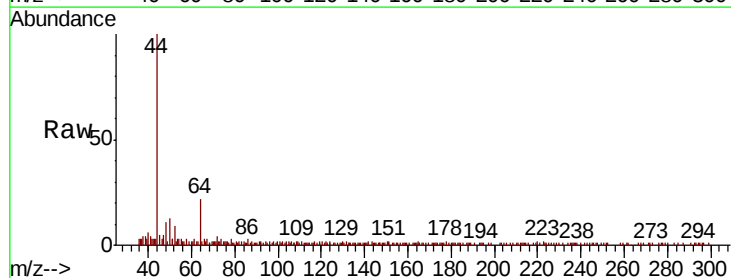
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



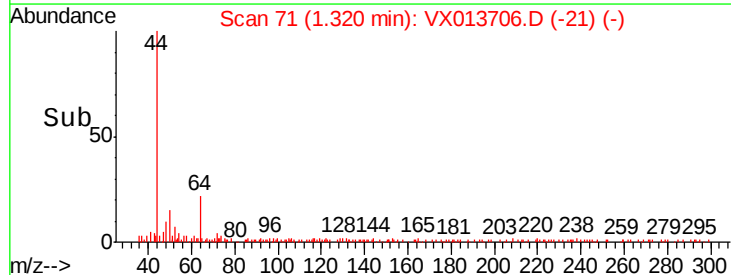
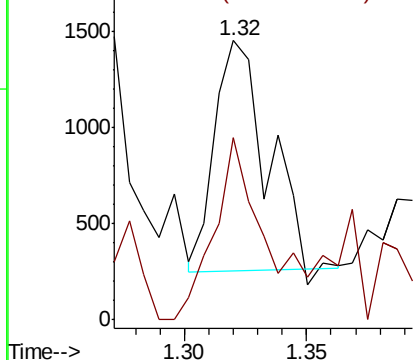
#3

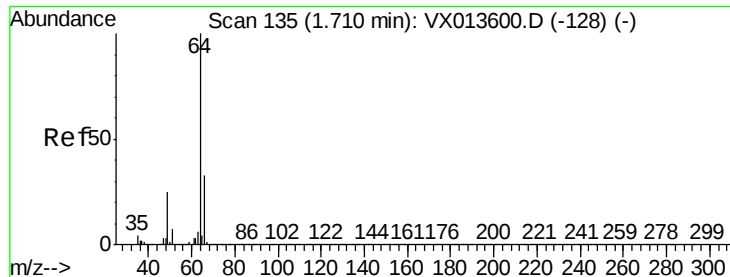
Chloromethane
 Concen: 0.211 ug/l
 RT: 1.32 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VX013706.D
 Acq: 29 Nov 2019 17:10

Tgt Ion: 50 Resp: 1800
 Ion Ratio Lower Upper
 50 100
 52 72.2 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0
 Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 0.461 ug/l

RT: 1.83 min Scan# 155

Delta R.T. 0.12 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

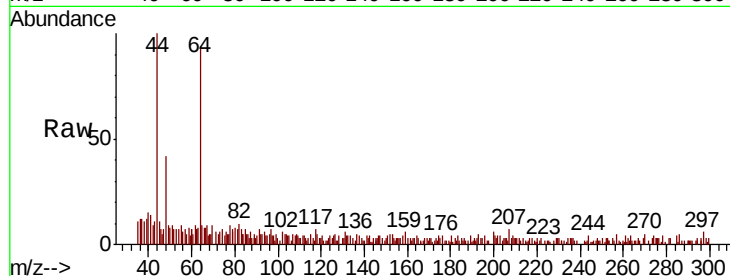
S39-0194

Tot Ion: 64 Resp: 2524

Ion Ratio Lower Upper

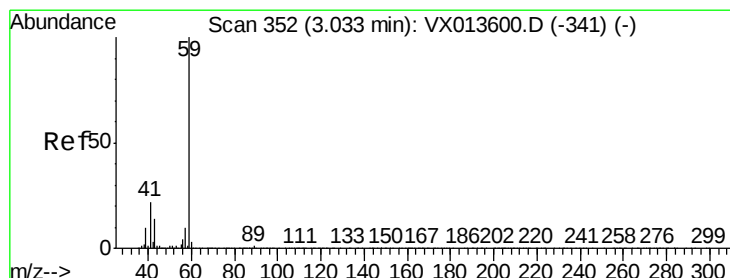
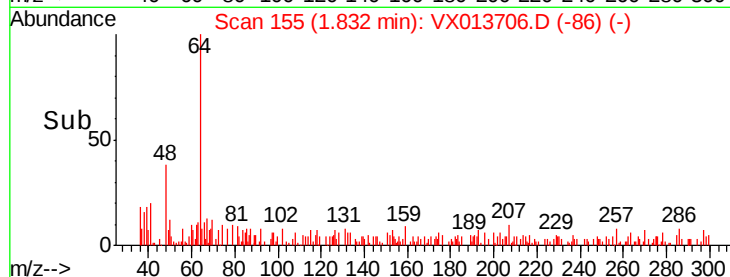
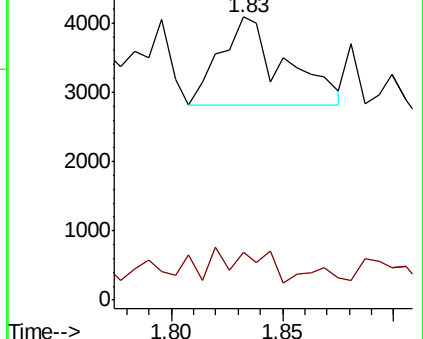
64 100

66 29.0 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: 0.936 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013706.D

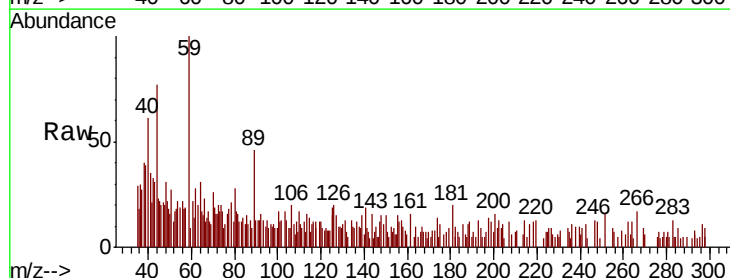
Acq: 29 Nov 2019 17:10

Tgt Ion: 59 Resp: 1835

Ion Ratio Lower Upper

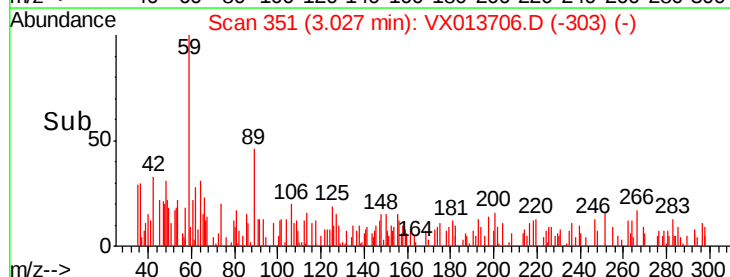
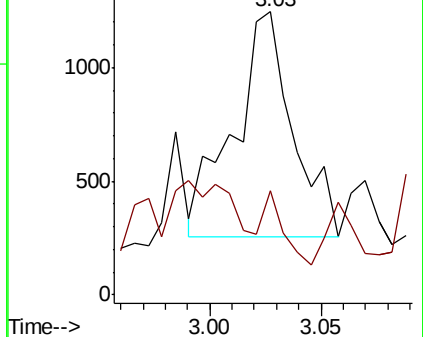
59 100

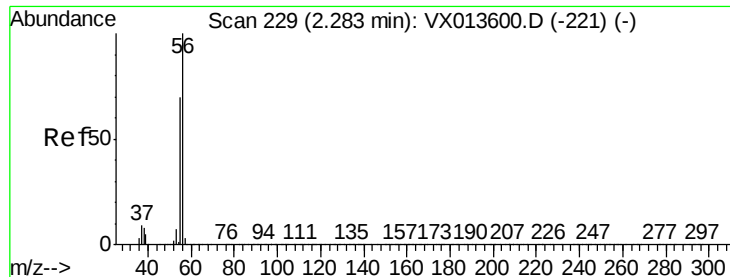
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 6.100 ug/l

RT: 2.31 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

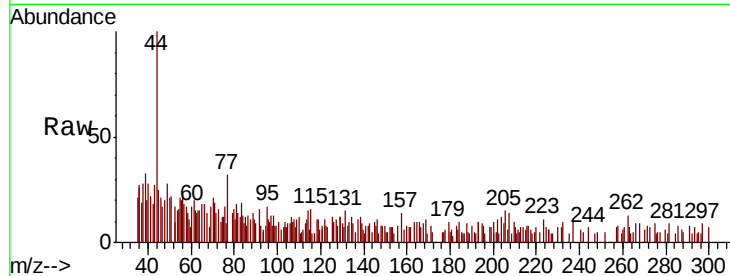
S39-0194

Tot Ion: 56 Resp: 130

Ion Ratio Lower Upper

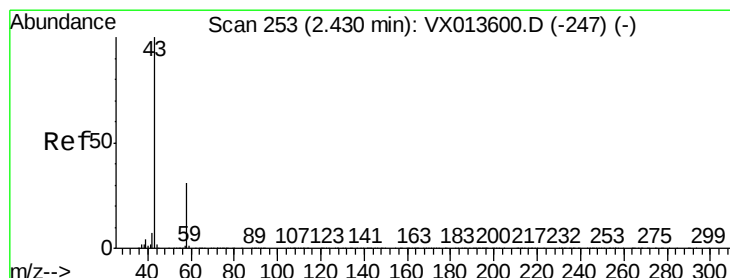
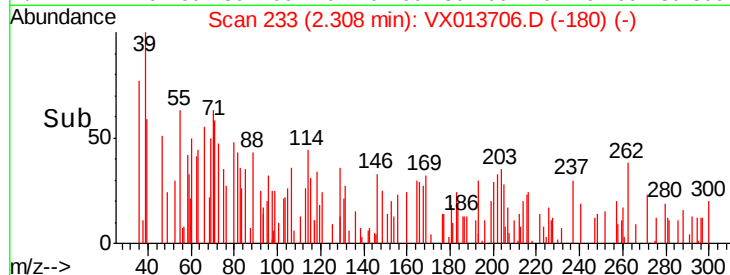
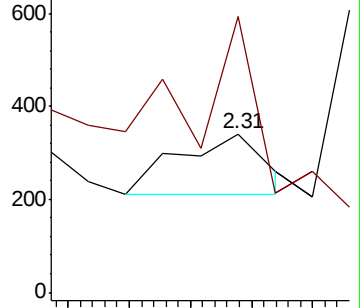
56 100

55 568.5 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.267 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013706.D

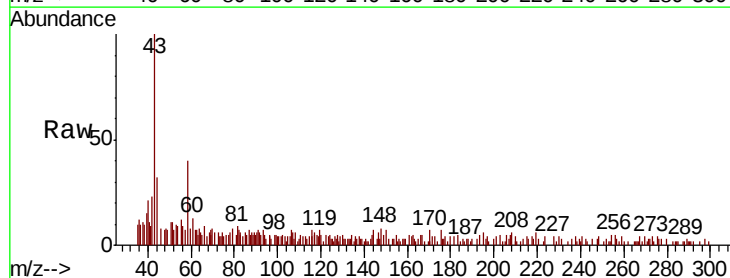
Acq: 29 Nov 2019 17:10

Tgt Ion: 43 Resp: 4971

Ion Ratio Lower Upper

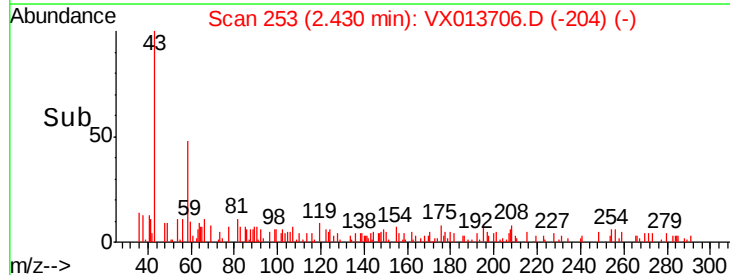
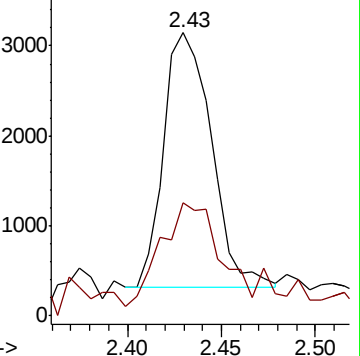
43 100

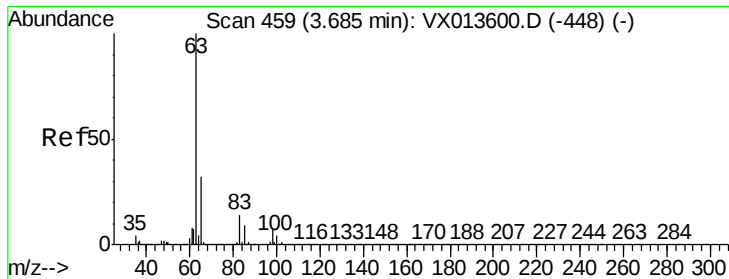
58 32.2 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#24

1,1-Dichloroethane

Concen: 0.441 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampled :

S39-0194

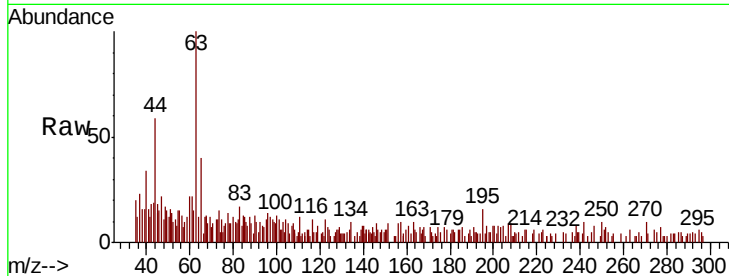
Tot Ion: 63 Resp: 5484

Ion Ratio Lower Upper

63 100

98 4.0 3.5 10.4

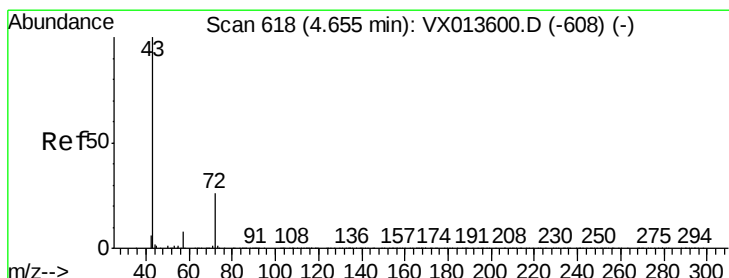
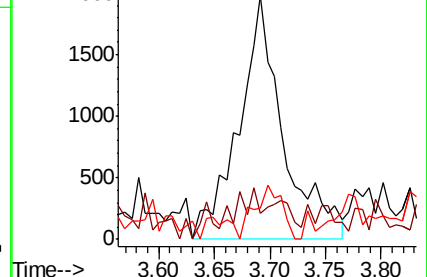
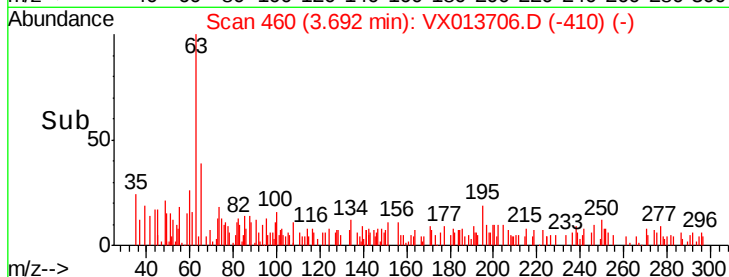
100 6.2 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.343 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.00 min

Lab File: VX013706.D

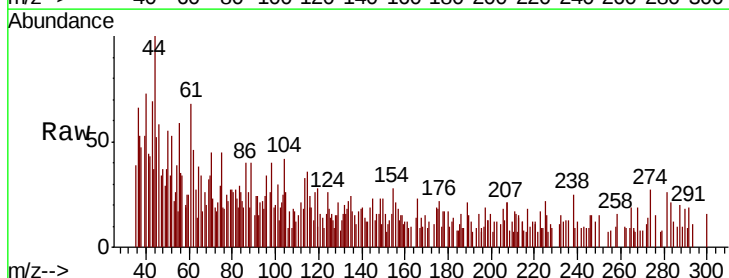
Acq: 29 Nov 2019 17:10

Tgt Ion: 43 Resp: 2000

Ion Ratio Lower Upper

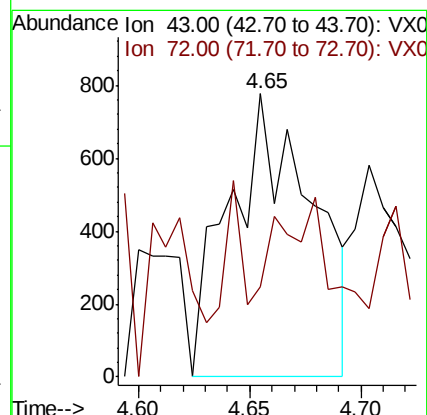
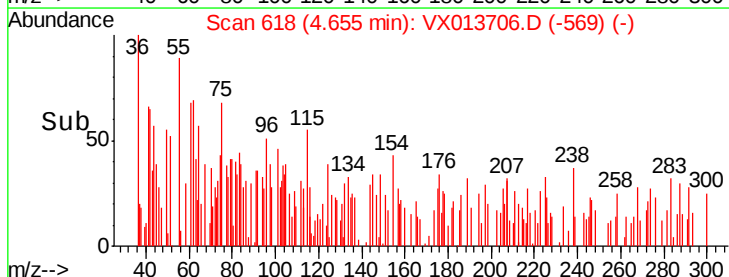
43 100

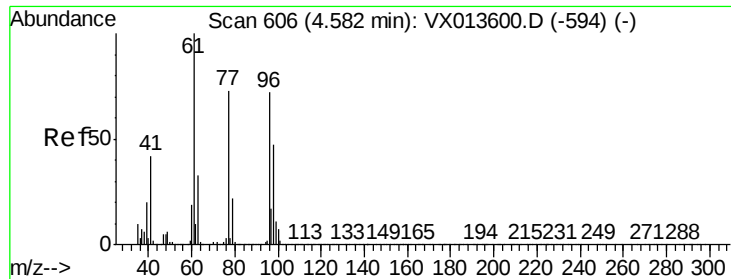
72 1.4 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



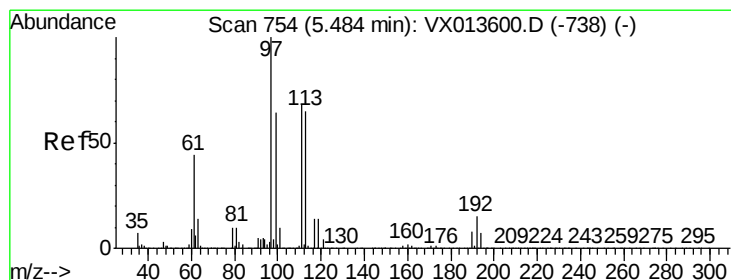
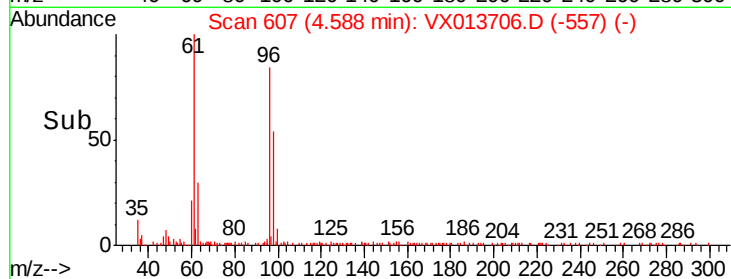
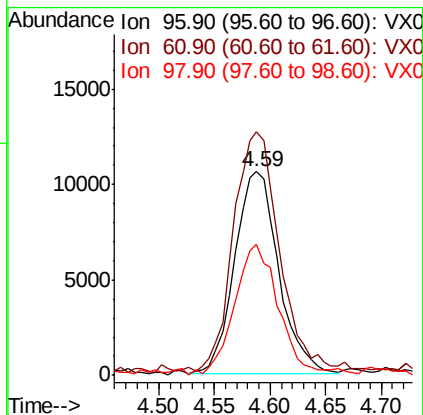
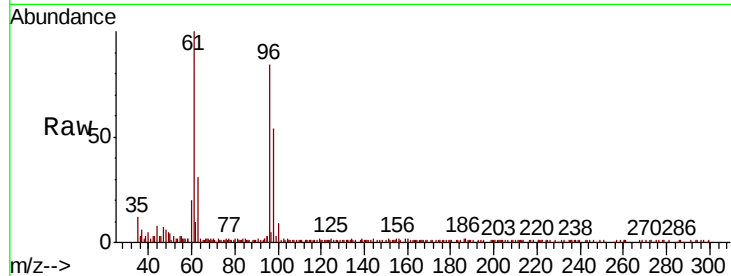


#27

cis-1,2-Dichloroethene
Concen: 3.535 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013706.D
Acq: 29 Nov 2019 17:10

Instrument :
MSVOA_X
ClientSampleId :
S39-0194

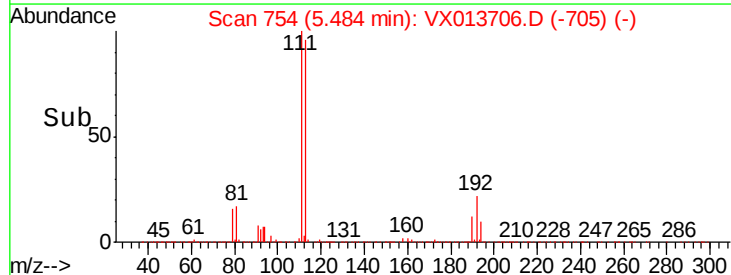
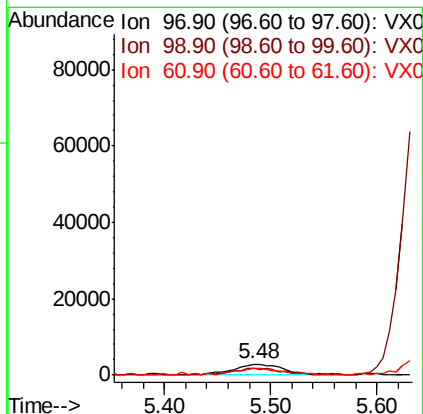
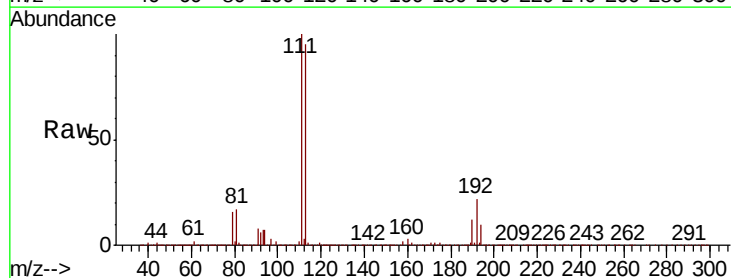
Tot Ion	Ratio	Lower	Upper
96	100		
61	124.1	0.0	286.4
98	66.5	0.0	127.4

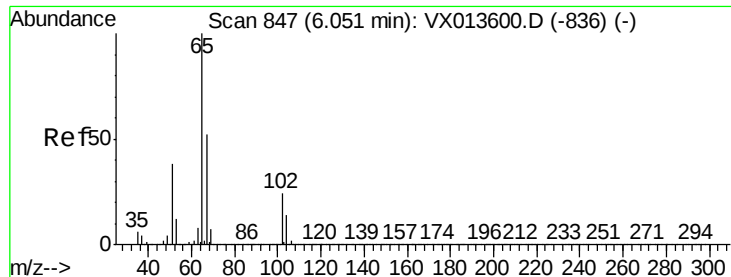


#32

1,1,1-Trichloroethane
Concen: 0.845 ug/l
RT: 5.48 min Scan# 754
Delta R.T. 0.00 min
Lab File: VX013706.D
Acq: 29 Nov 2019 17:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	51.2	36.1	54.1





#33

1,2-Dichloroethane-d4

Concen: 47.779 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

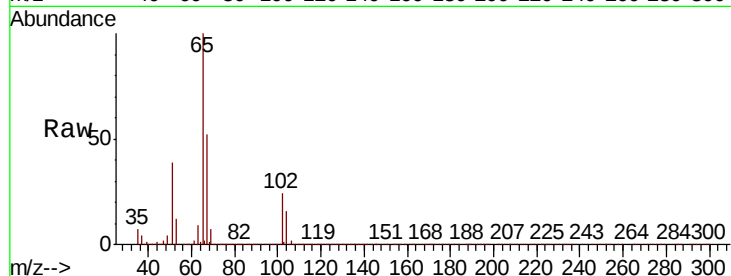
S39-0194

Tot Ion: 65 Resp: 379641

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

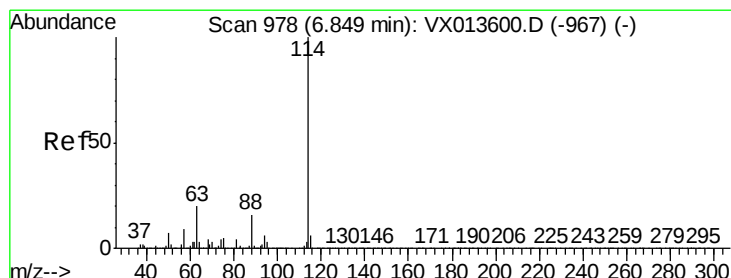
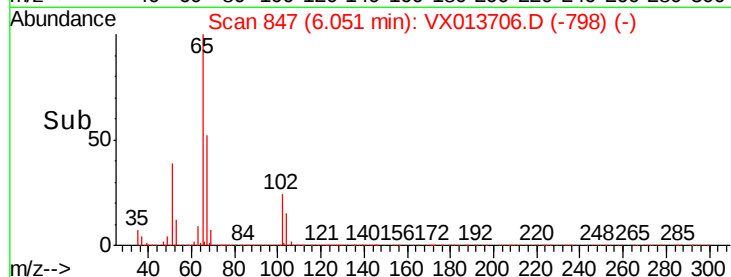
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

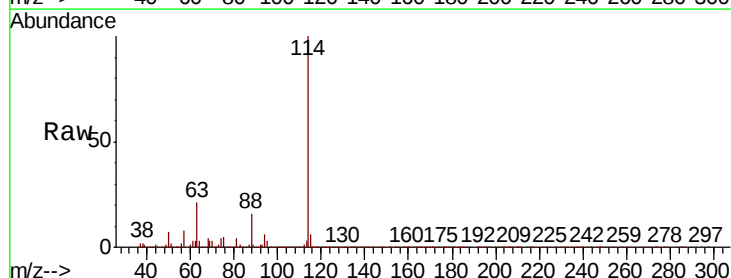
Tgt Ion: 114 Resp: 1057611

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.6

88 15.6 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

6.85

600000

500000

400000

300000

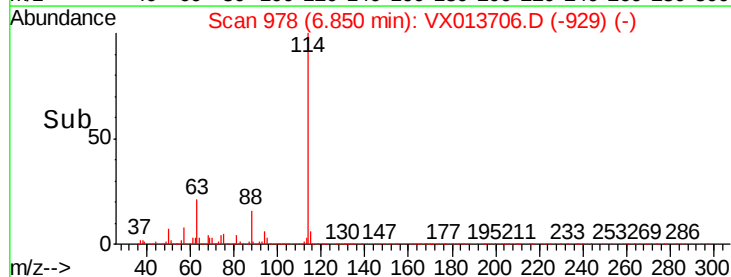
200000

100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.061 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

S39-0194

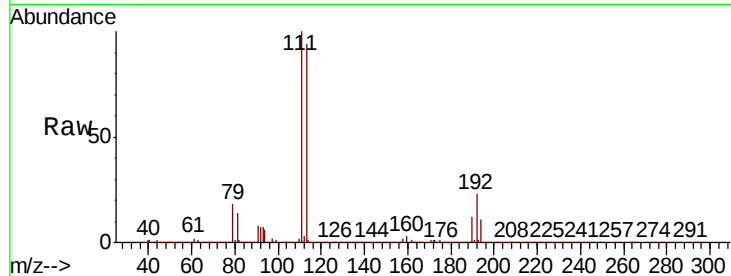
Tot Ion:113 Resp: 314234

Ion Ratio Lower Upper

113 100

111 102.0 83.6 125.4

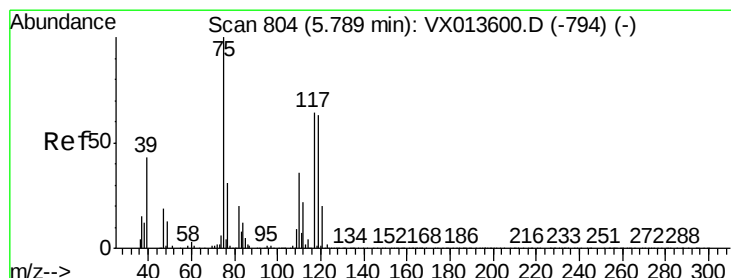
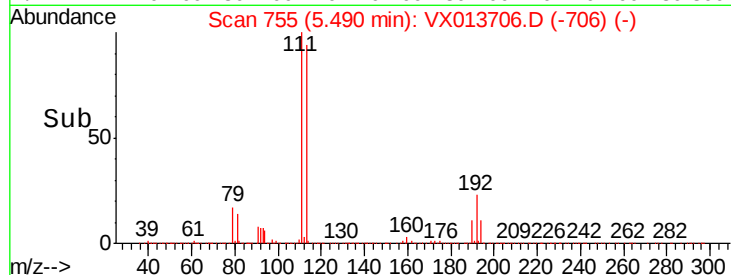
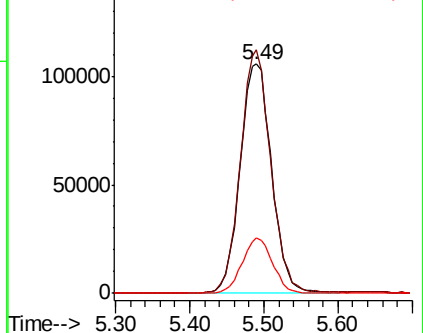
192 22.9 19.2 28.8



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: 4.745 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

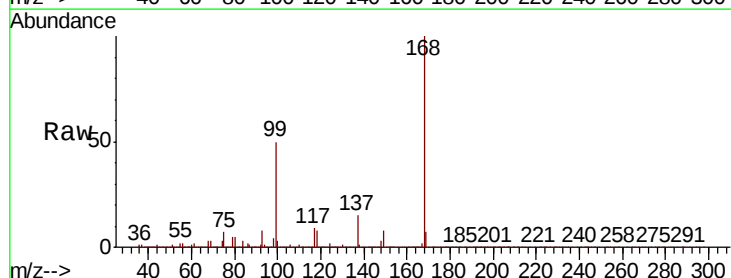
Tgt Ion: 75 Resp: 45555

Ion Ratio Lower Upper

75 100

110 11.7 18.1 54.1#

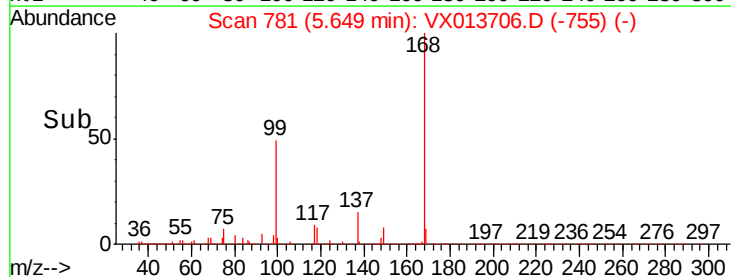
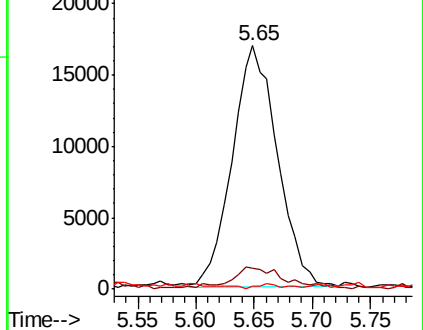
77 1.2 24.5 36.7#

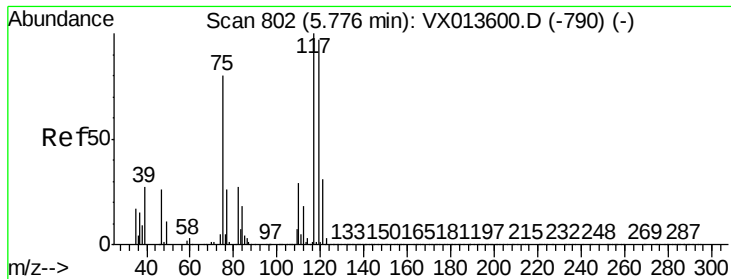


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.676 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampled :

S39-0194

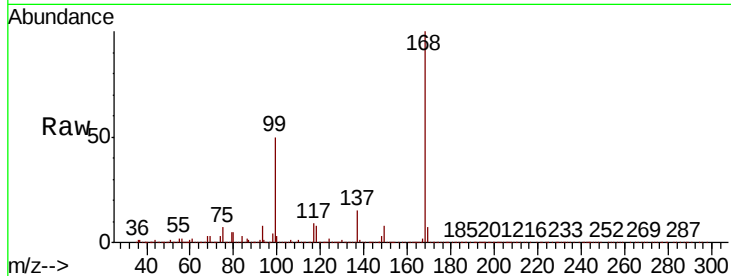
Tot Ion:117 Resp: 59096

Ion Ratio Lower Upper

117 100

119 4.1 77.5 116.3#

121 0.7 25.0 37.6#

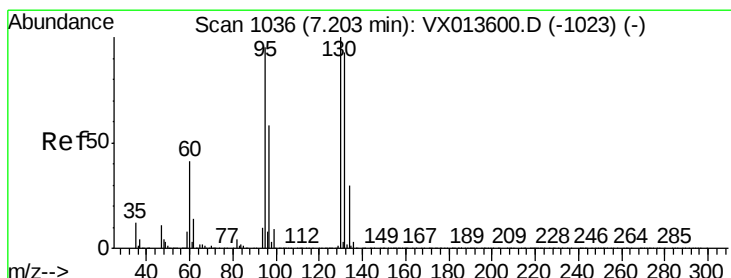
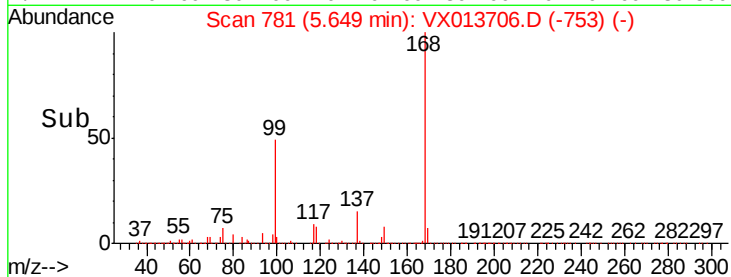
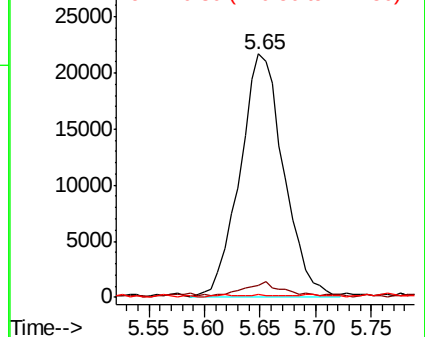


Abundance

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: 0.915 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013706.D

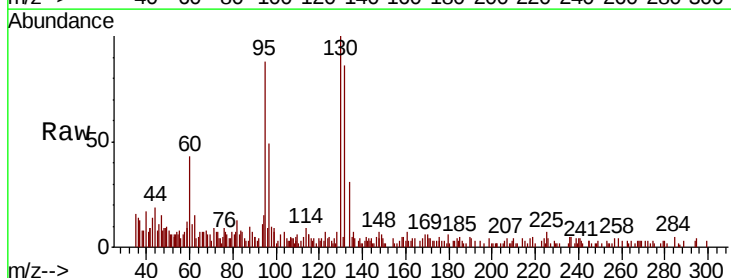
Acq: 29 Nov 2019 17:10

Tgt Ion:130 Resp: 7343

Ion Ratio Lower Upper

130 100

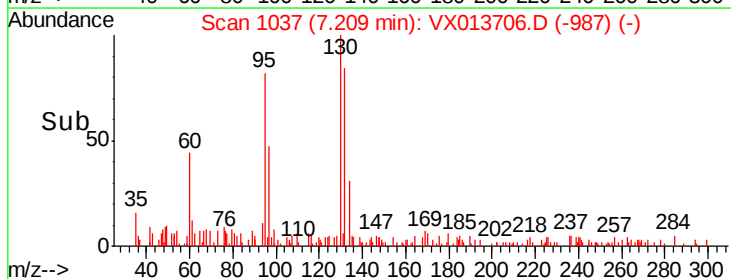
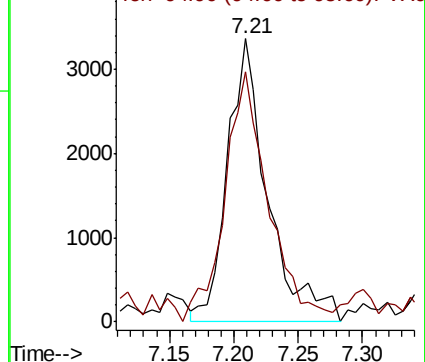
95 81.9 0.0 190.8

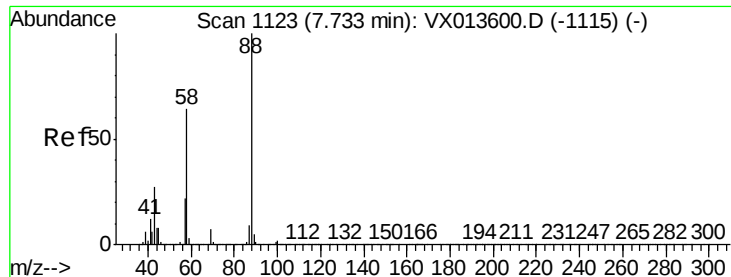


Abundance

Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

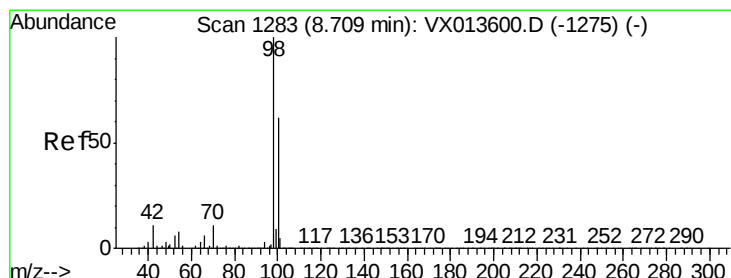
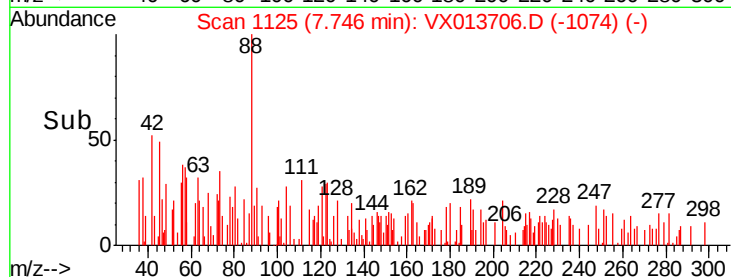
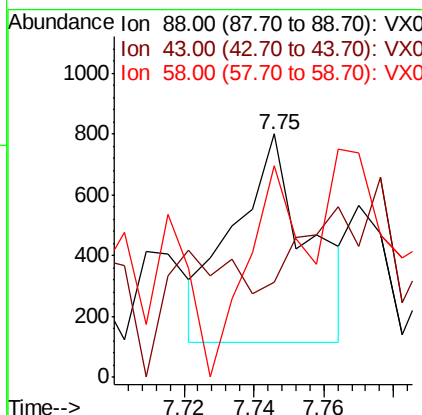
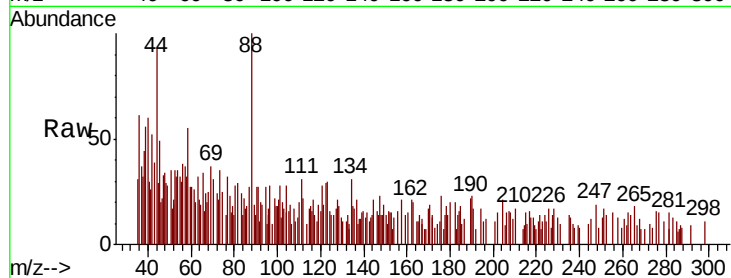




#49
1,4-Dioxane
Concen: 5.248 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX013706.D
Acq: 29 Nov 2019 17:10

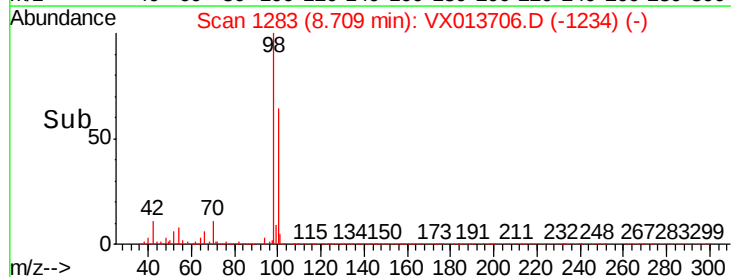
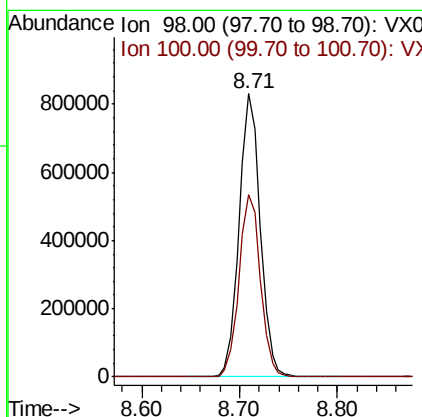
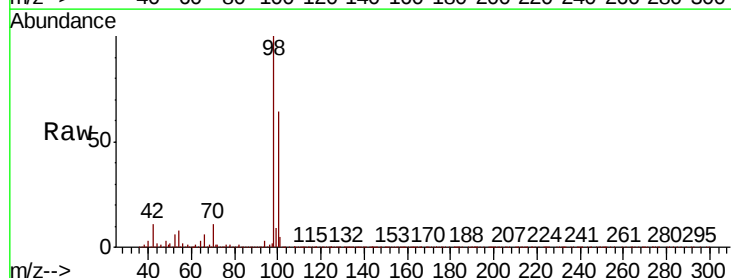
Instrument :
MSVOA_X
ClientSampleId :
S39-0194

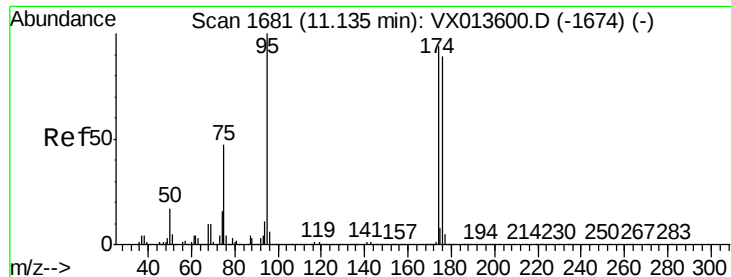
Tot Ion: 88 Resp: 1012
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.6#
58 79.1 54.6 82.0



#50
Toluene-d8
Concen: 48.914 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013706.D
Acq: 29 Nov 2019 17:10

Tgt Ion: 98 Resp: 1246031
Ion Ratio Lower Upper
98 100
100 65.4 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 45.029 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

S39-0194

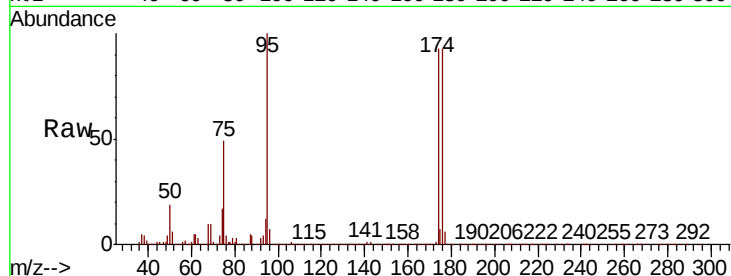
Tot Ion: 95 Resp: 413633

Ion Ratio Lower Upper

95 100

174 90.3 0.0 180.0

176 88.3 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013706.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013706.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013706.D (-1674) (-)

11.14

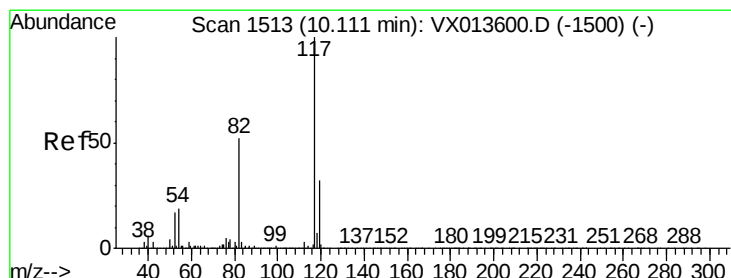
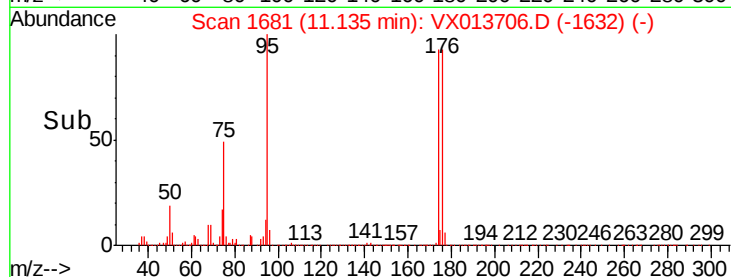
300000

200000

100000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

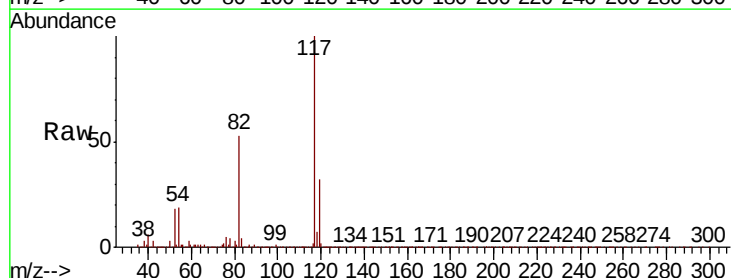
Tgt Ion: 117 Resp: 934887

Ion Ratio Lower Upper

117 100

82 52.9 41.8 62.8

119 32.4 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VX013706.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013706.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013706.D (-1464) (-)

10.11

800000

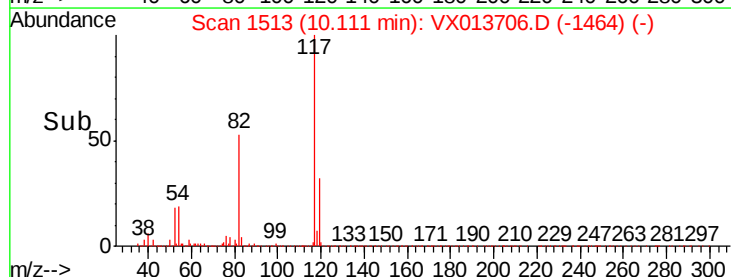
600000

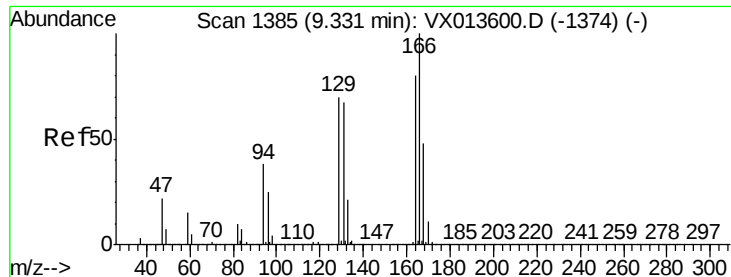
400000

200000

0

Time-->

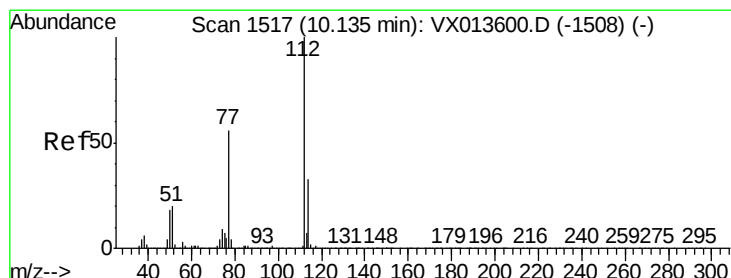
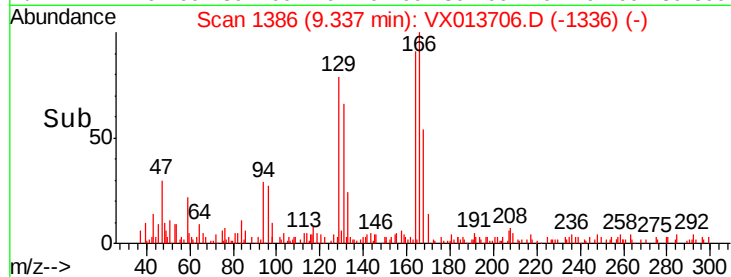
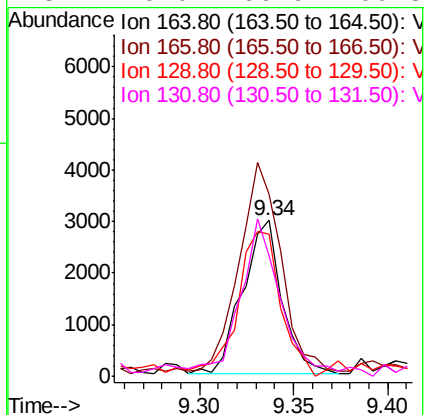
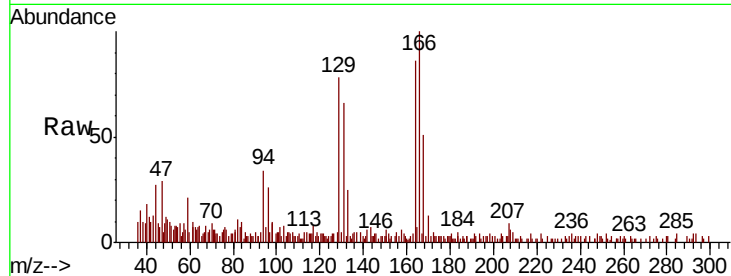




#64
Tetrachloroethene
Concen: 0.618 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX013706.D
Acq: 29 Nov 2019 17:10

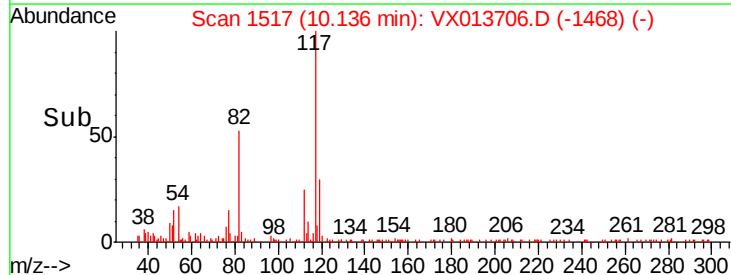
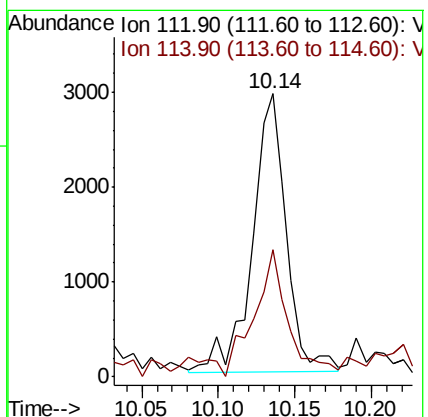
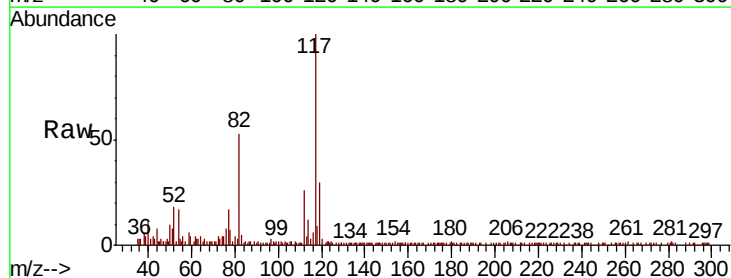
Instrument :
MSVOA_X
ClientSampled :
S39-0194

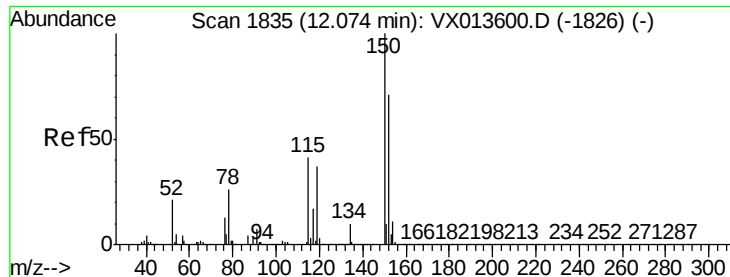
Tot Ion	Ratio	Lower	Upper
164	100		
166	115.7	99.7	149.5
129	89.2	70.1	105.1
131	76.0	66.9	100.3



#65
Chlorobenzene
Concen: 0.234 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX013706.D
Acq: 29 Nov 2019 17:10

Tgt Ion	Ratio	Lower	Upper
112	100		
114	43.4	26.1	39.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013706.D

Acq: 29 Nov 2019 17:10

Instrument :

MSVOA_X

ClientSampleId :

S39-0194

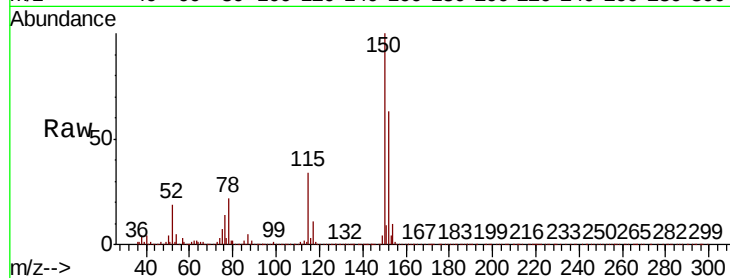
Tot Ion:152 Resp: 411720

Ion Ratio Lower Upper

152 100

115 54.9 38.4 115.1

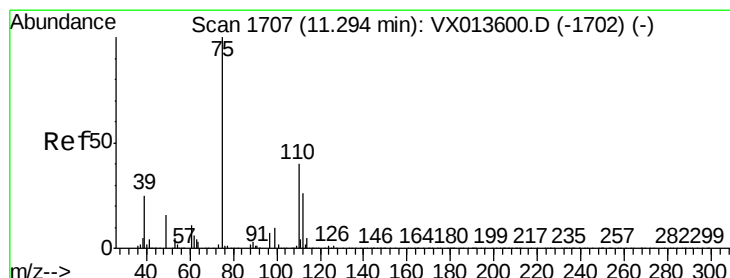
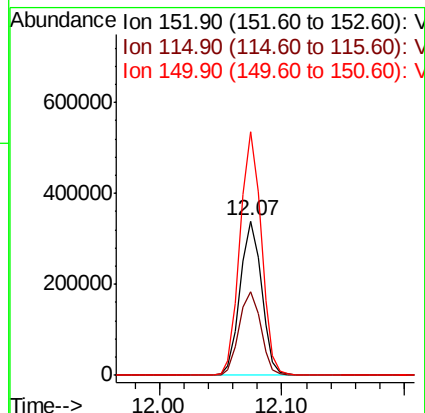
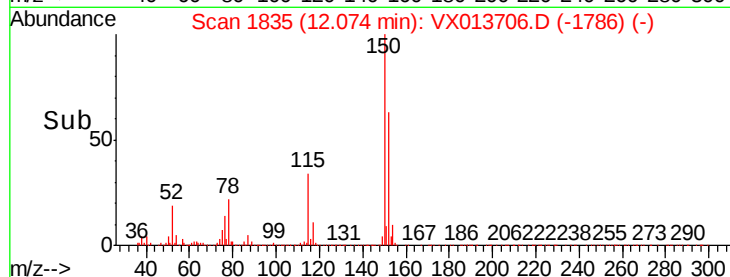
150 156.2 0.0 346.8



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: 22.067 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013706.D

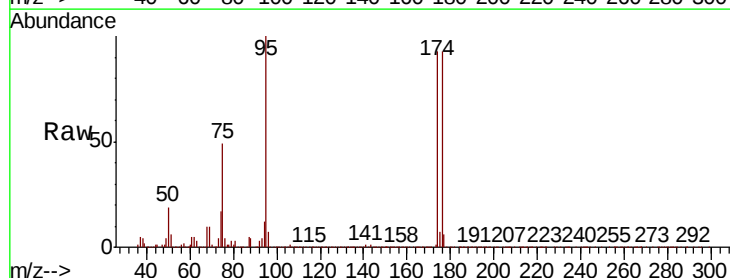
Acq: 29 Nov 2019 17:10

Tgt Ion: 75 Resp: 204347

Ion Ratio Lower Upper

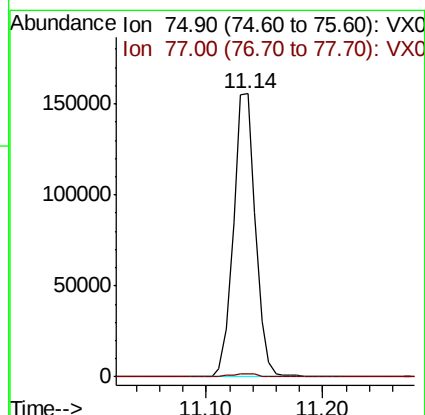
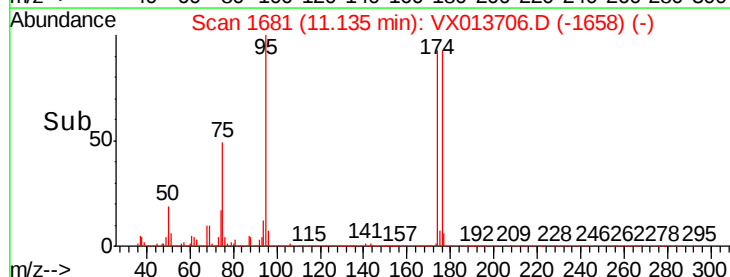
75 100

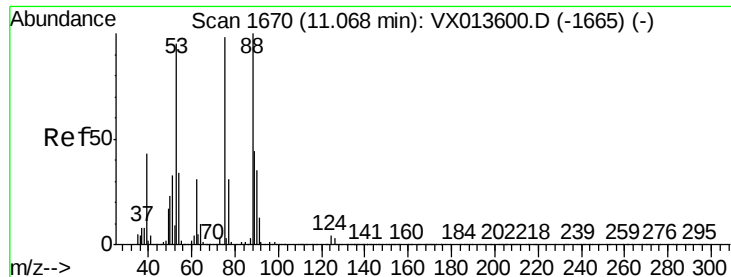
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

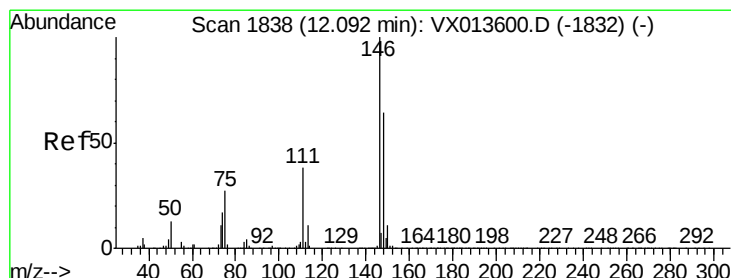
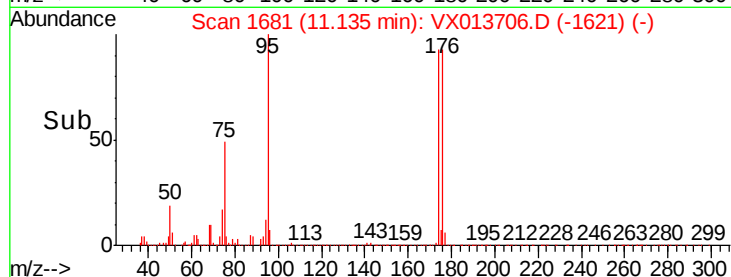
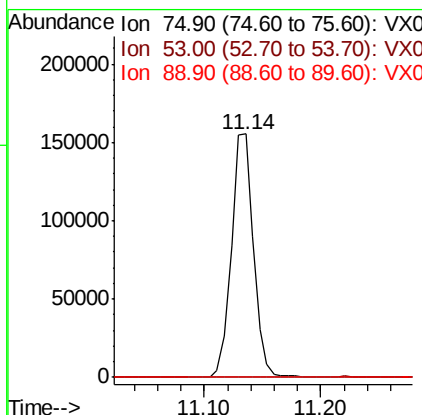
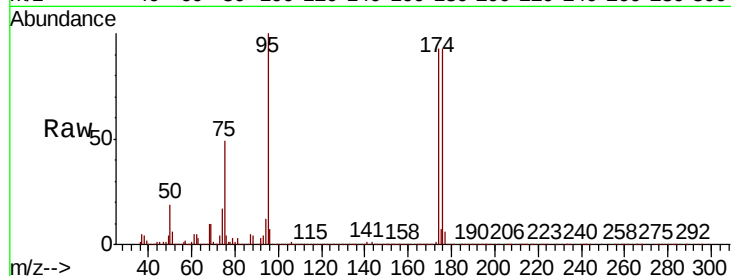




#81
trans-1,4-Dichloro-2-butene
Concen: 60.371 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.07 min
Lab File: VX013706.D
Acq: 29 Nov 2019 17:10

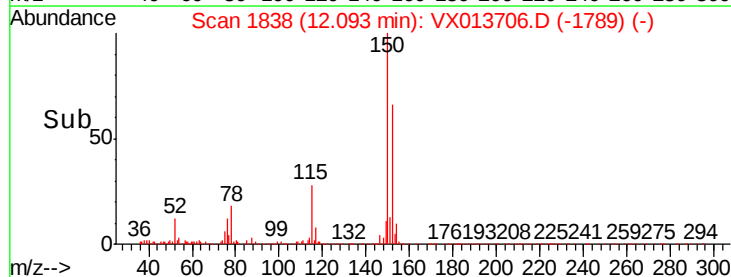
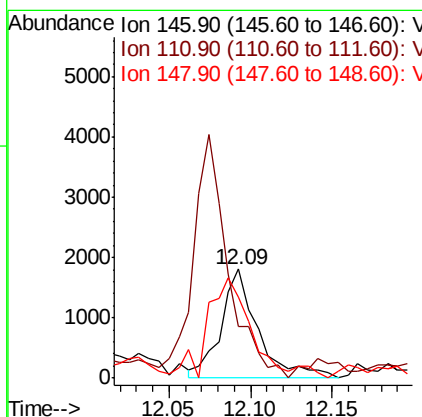
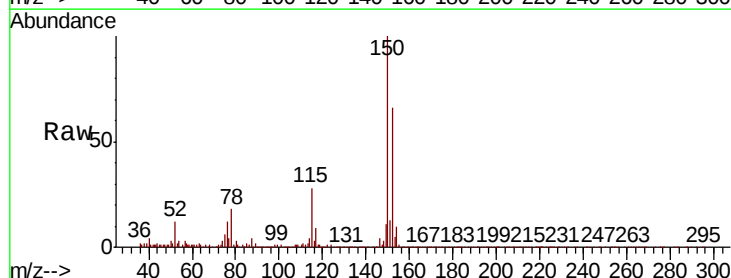
Instrument :
MSVOA_X
ClientSampled :
S39-0194

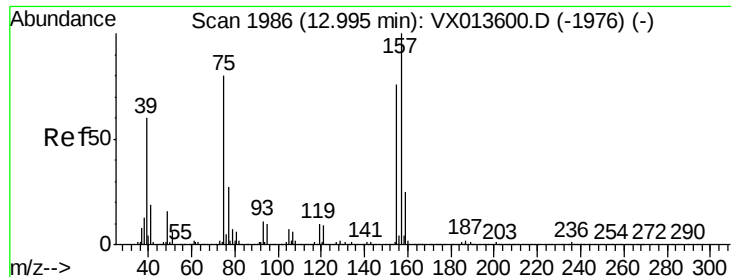
Tot Ion: 75 Resp: 204347
Ion Ratio Lower Upper
75 100
53 0.0 78.2 117.2#
89 0.2 35.4 53.2#



#88
1,4-Dichlorobenzene
Concen: 0.206 ug/l
RT: 12.09 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VX013706.D
Acq: 29 Nov 2019 17:10

Tgt Ion: 146 Resp: 2848
Ion Ratio Lower Upper
146 100
111 209.6 18.9 56.9#
148 96.1 31.9 95.5#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.296 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VX013706.D
 Acq: 29 Nov 2019 17:10

Instrument :
 MSVOA_X
 ClientSampleId :
 S39-0194

Tot Ion: 75 Resp: 645
 Ion Ratio Lower Upper
 75 100
 155 103.7 47.6 142.8
 157 85.3 62.1 186.2

