

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122418\
 Data File : VX006802.D
 Acq On : 24 Dec 2018 18:24
 Operator : JC/MD
 Sample : J6533-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

Quant Time: Dec 25 01:25:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	735507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1081052	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	979395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	482788	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	361078	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	
35) Dibromofluoromethane	5.50	113	319590	46.75	ug/l	0.00
Spiked Amount			Recovery	=	93.50%	
50) Toluene-d8	8.71	98	1268273	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
62) 4-Bromofluorobenzene	11.13	95	454016	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	

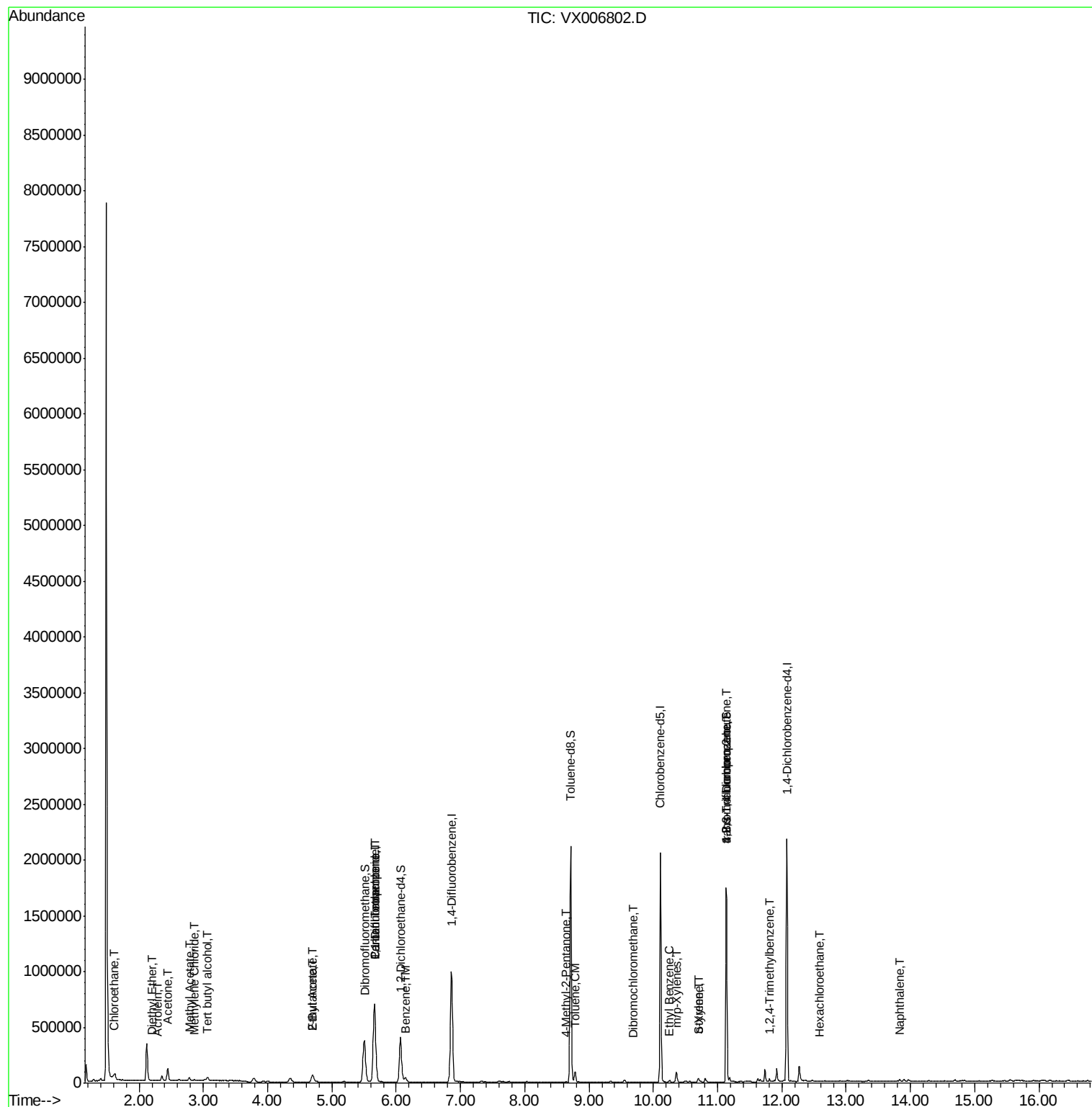
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	554	Below Cal	#	4
6) Chloroethane	1.60	64	12636	2.410	ug/l #	64
8) Diethyl Ether	2.19	74	1071	0.228	ug/l #	3
11) Tert butyl alcohol	3.06	59	43260	24.453	ug/l	98
13) Acrolein	2.29	56	303	0.254	ug/l #	80
16) Acetone	2.45	43	115560	31.731	ug/l	95
18) Methyl Acetate	2.78	43	36635	3.421	ug/l	99
20) Methylene Chloride	2.86	84	4191	0.557	ug/l #	84
25) 2-Butanone	4.70	43	115150	22.478	ug/l	99
28) Bromochloromethane	5.01	49	260	Below Cal	#	78
36) 1,1-Dichloropropene	5.66	75	46097	5.148	ug/l #	49
37) Ethyl Acetate	4.70	43	115150	12.356	ug/l #	66
38) Carbon Tetrachloride	5.66	117	66244	7.613	ug/l #	14
40) Benzene	6.15	78	46387	1.704	ug/l	99
49) 1,4-Dioxane	7.76	88	1862	Below Cal	#	54
51) 4-Methyl-2-Pentanone	8.65	43	2411	0.267	ug/l	90
52) Toluene	8.79	92	34130	1.941	ug/l	99
60) Dibromochloromethane	9.69	129	67	2.333	ug/l	94
67) Ethyl Benzene	10.26	91	9052	0.267	ug/l	97
68) m/p-Xylenes	10.36	106	21043	1.575	ug/l	91
69) o-Xylene	10.69	106	7442	0.564	ug/l	94
70) Styrene	10.71	104	7733	0.370	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	211292	23.550	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	211292	69.834	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	11255	0.393	ug/l	91
90) Hexachloroethane	12.58	117	277	3.350	ug/l #	6
95) Naphthalene	13.83	128	11960	0.337	ug/l #	91

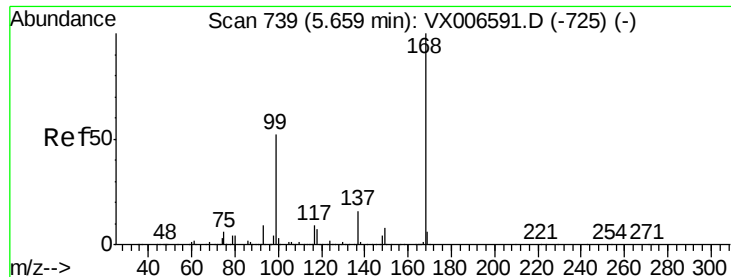
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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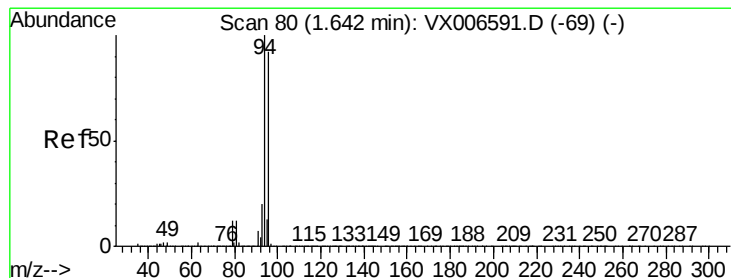
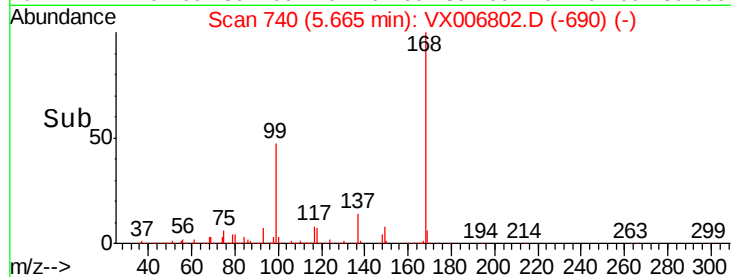
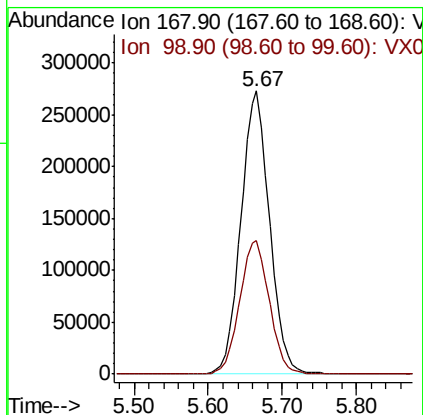
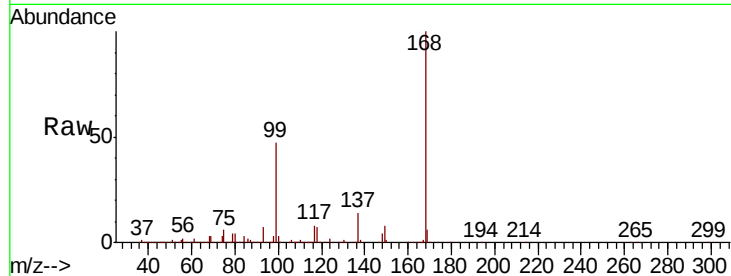


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. 0.01 min
 Lab File: VX006802.D
 Acq: 24 Dec 2018 18:24

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

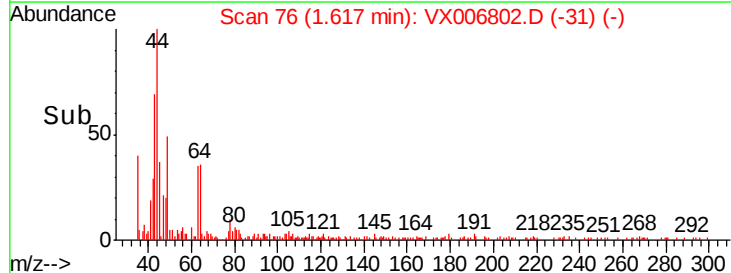
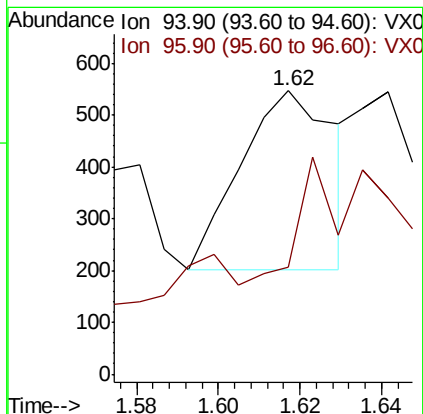
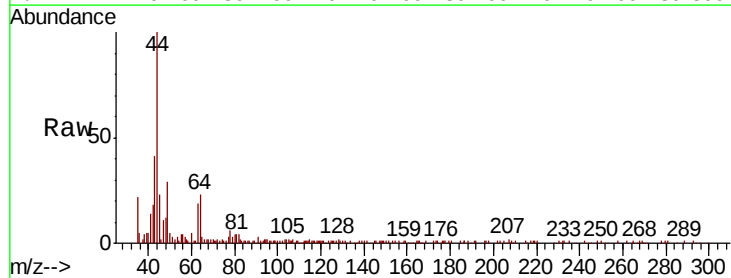
Tot Ion:168 Resp: 735507
 Ion Ratio Lower Upper
 168 100
 99 47.2 41.8 62.8

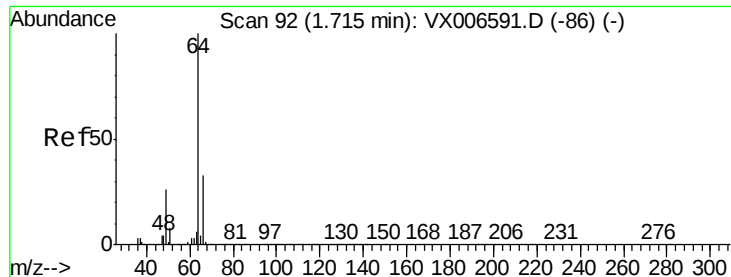


#5

Bromomethane
 Concen: Below Cal
 RT: 1.62 min Scan# 76
 Delta R.T. -0.02 min
 Lab File: VX006802.D
 Acq: 24 Dec 2018 18:24

Tgt Ion: 94 Resp: 554
 Ion Ratio Lower Upper
 94 100
 96 0.0 73.4 110.2#





#6

Chloroethane

Concen: 2.410 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

Instrument :

MSVOA_X

ClientSampleId :

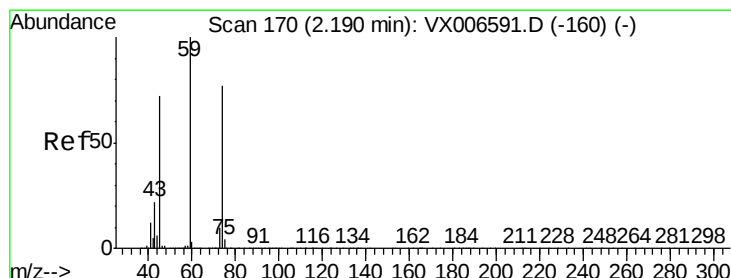
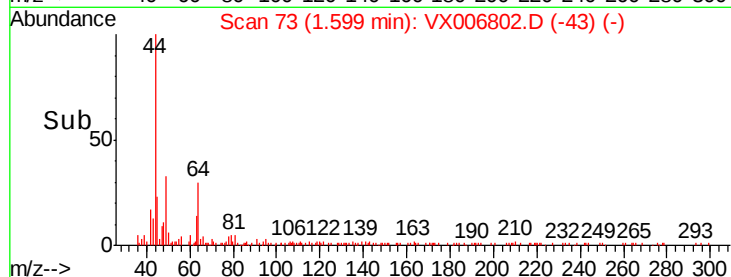
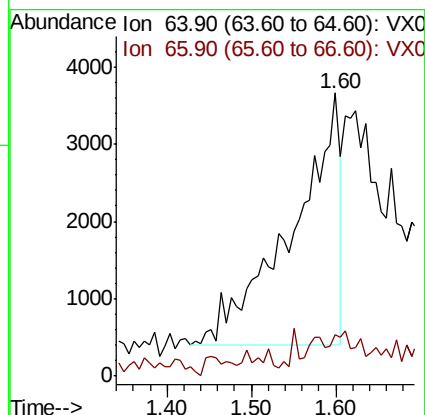
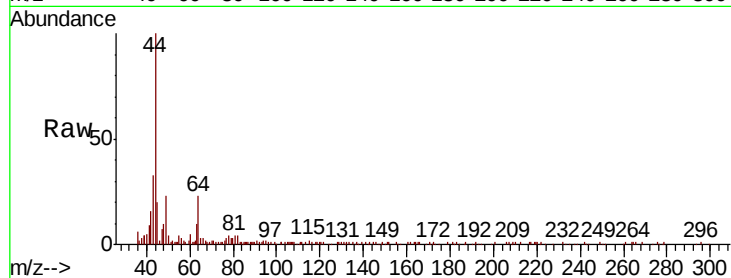
COMP-2

Tot Ion: 64 Resp: 12636

Ion Ratio Lower Upper

64 100

66 12.8 26.4 39.6#



#8

Diethyl Ether

Concen: 0.228 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX006802.D

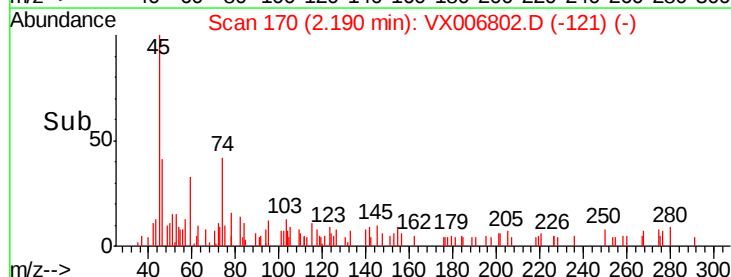
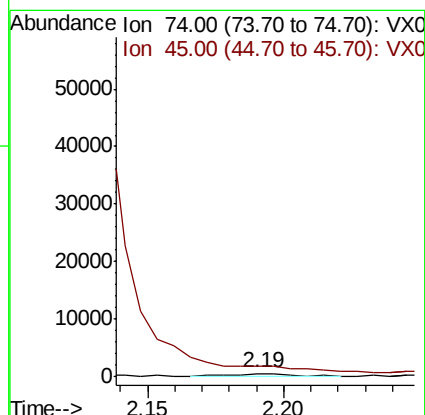
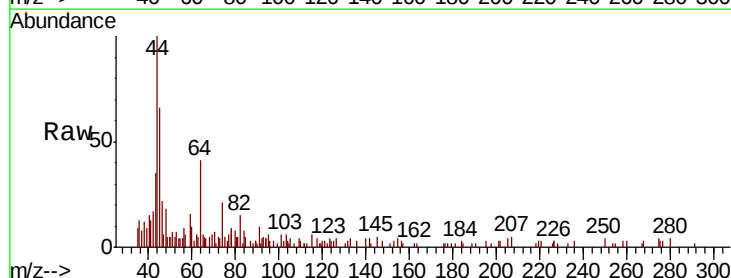
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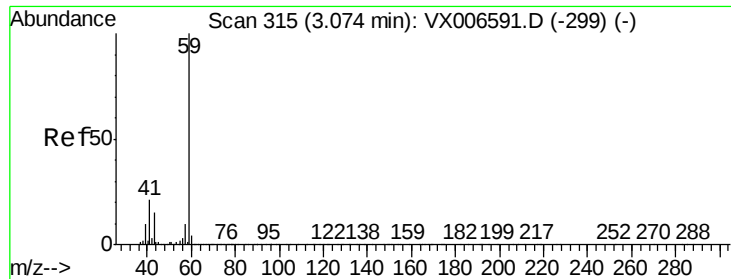
Tgt Ion: 74 Resp: 1071

Ion Ratio Lower Upper

74 100

45 0.0 46.3 138.9#



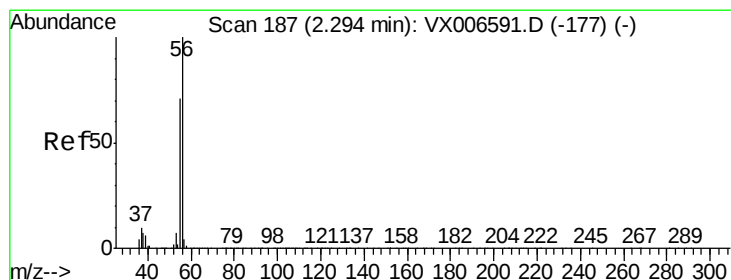
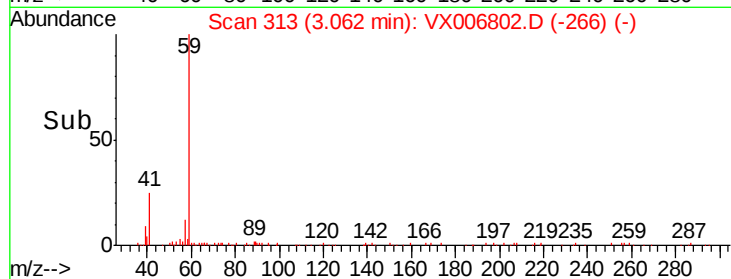
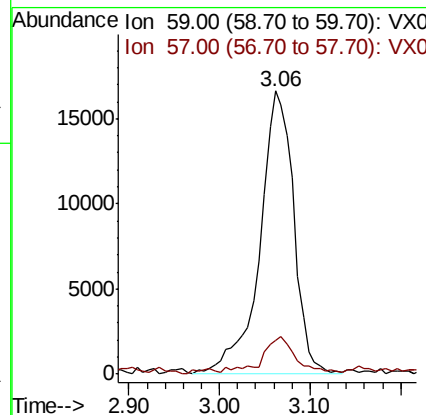
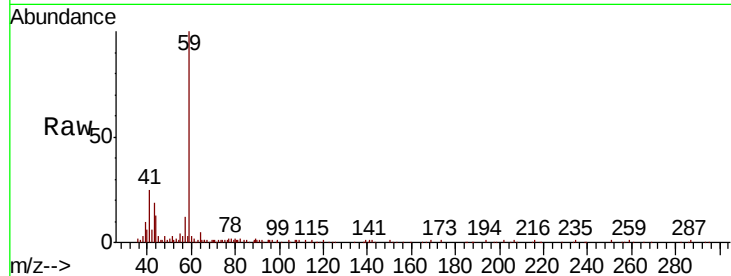


#11

Tert butyl alcohol
 Concen: 24.453 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX006802.D
 Acq: 24 Dec 2018 18:24

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

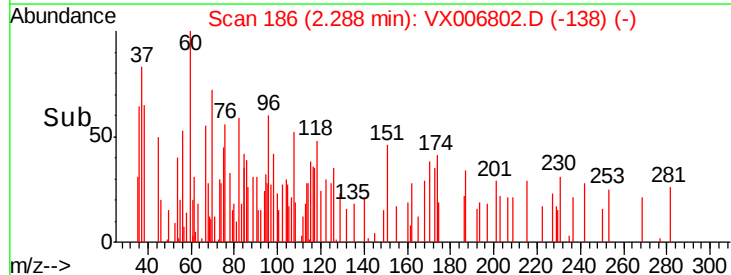
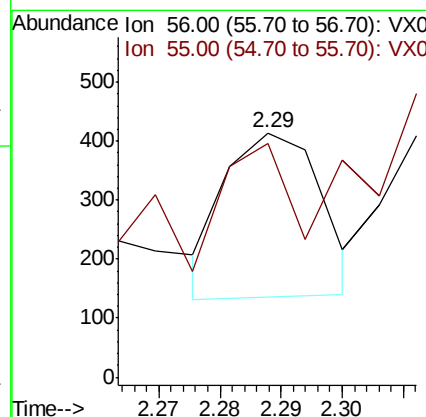
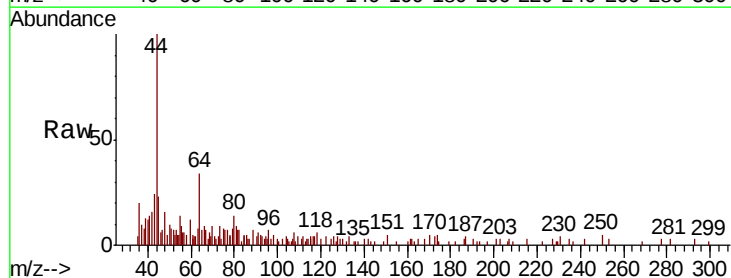
Tot Ion: 59 Resp: 43260
 Ion Ratio Lower Upper
 59 100
 57 11.3 8.5 12.7

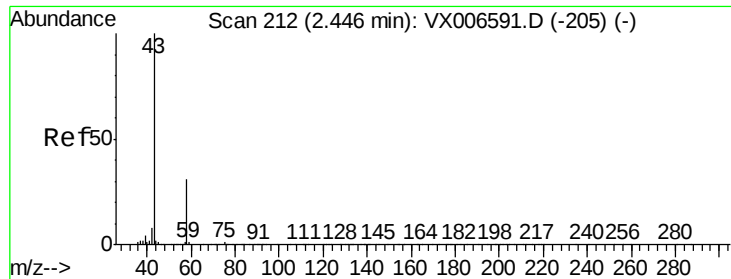


#13

Acrolein
 Concen: 0.254 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX006802.D
 Acq: 24 Dec 2018 18:24

Tgt Ion: 56 Resp: 303
 Ion Ratio Lower Upper
 56 100
 55 56.1 58.2 87.4#

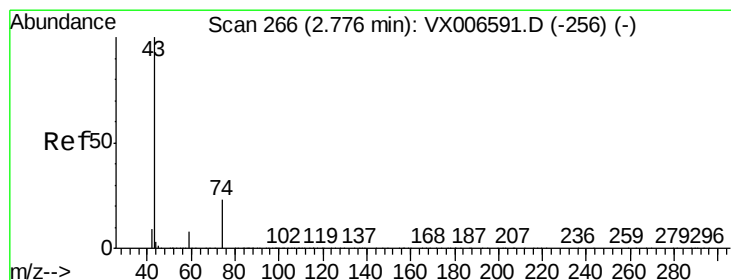
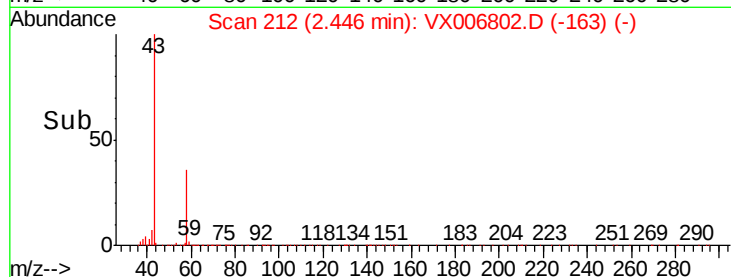
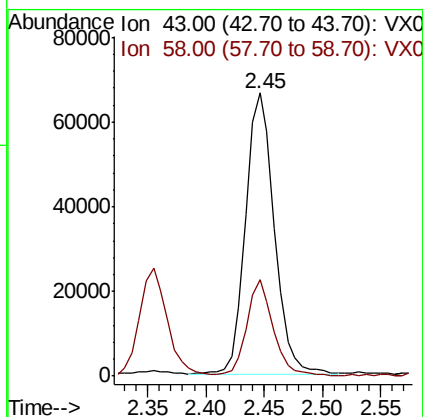
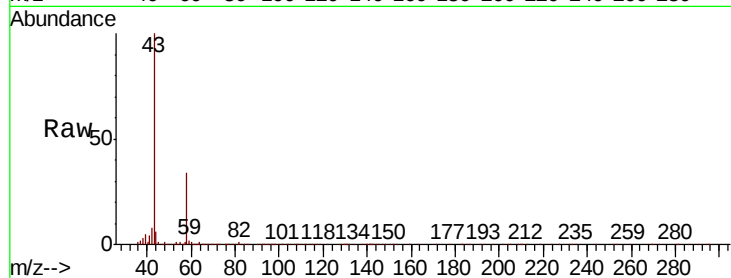




#16
Acetone
Concen: 31.731 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

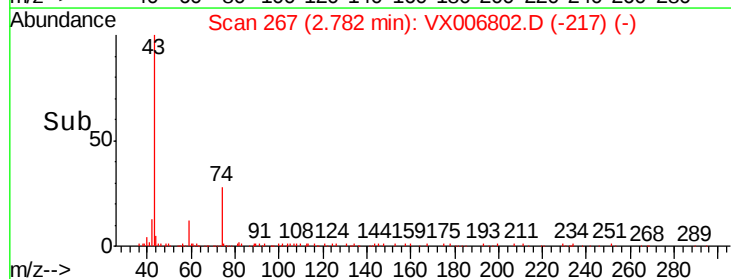
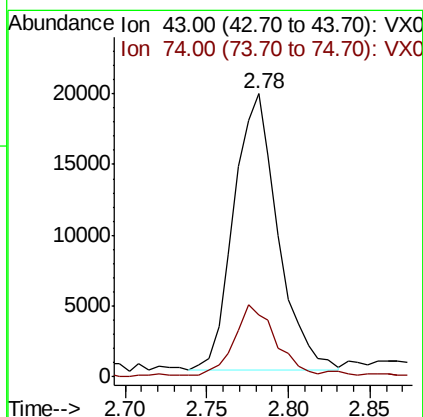
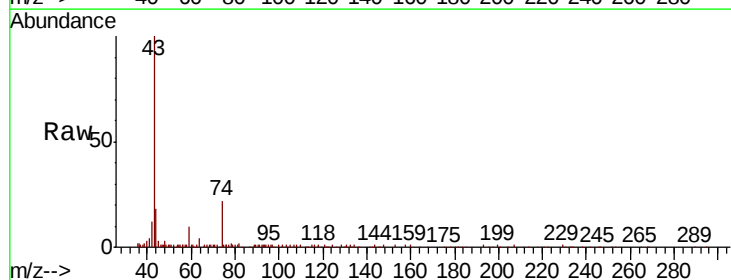
Instrument :
MSVOA_X
ClientSampleId :
COMP-2

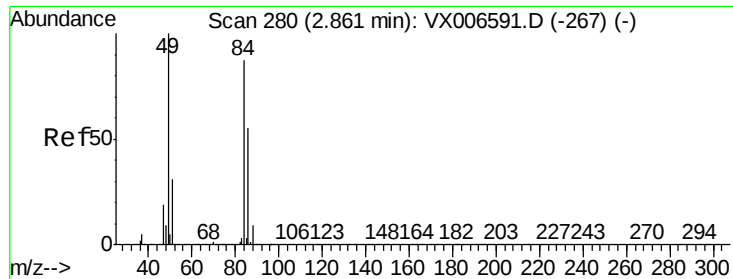
Tot Ion: 43 Resp: 115560
Ion Ratio Lower Upper
43 100
58 34.0 25.0 37.6



#18
Methyl Acetate
Concen: 3.421 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

Tgt Ion: 43 Resp: 36635
Ion Ratio Lower Upper
43 100
74 24.0 18.6 28.0

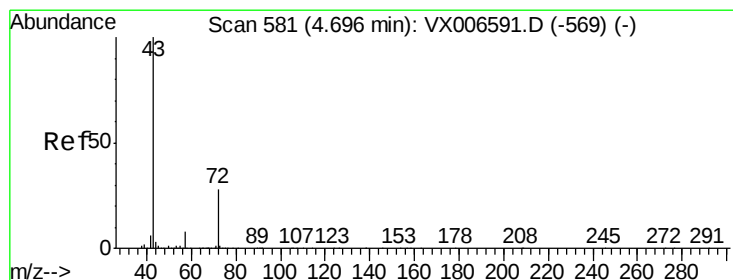
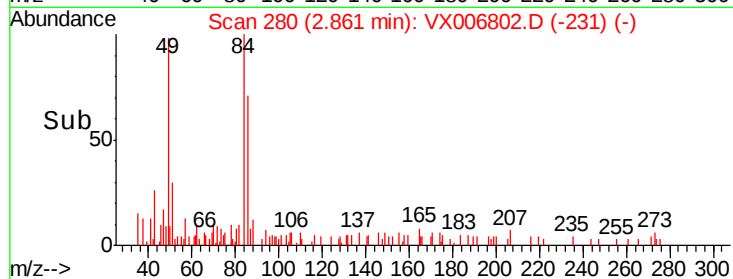
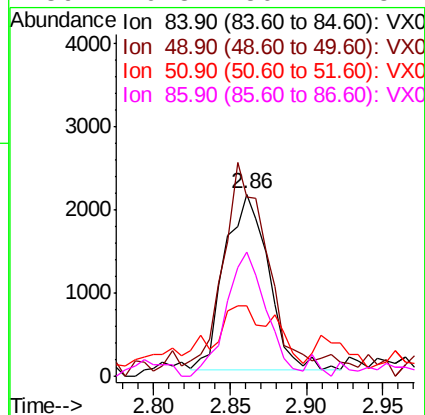
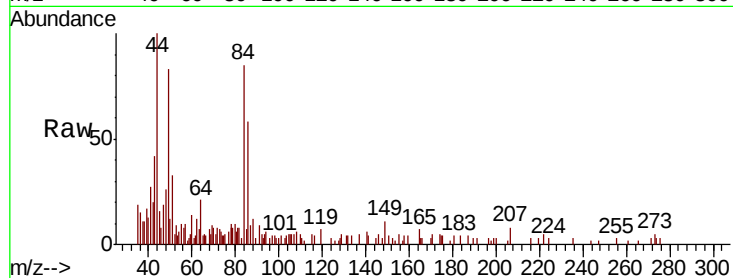




#20
Methvlene Chloride
Concen: 0.557 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

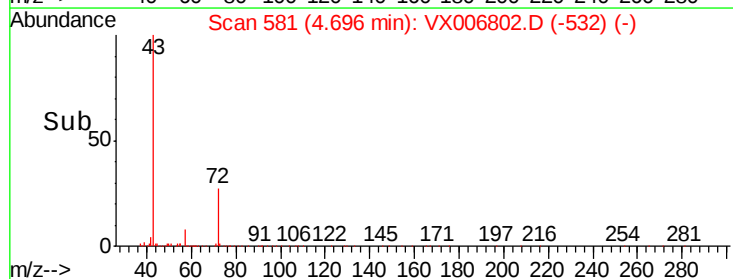
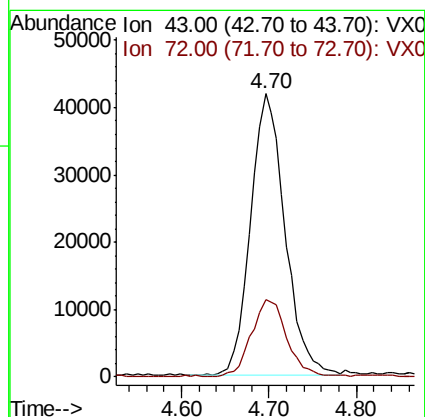
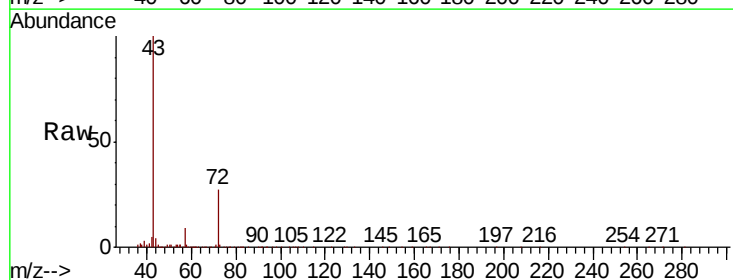
Instrument :
MSVOA_X
ClientSampleId :
COMP-2

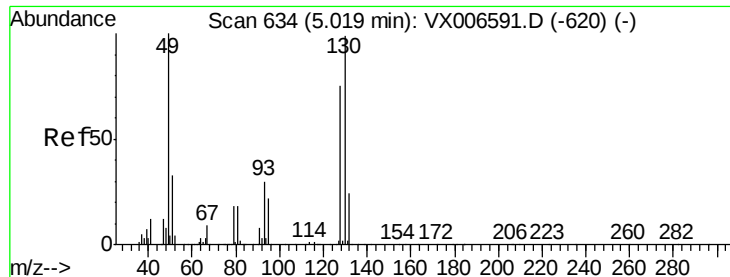
Tot Ion: 84 Resp: 4191
Ion Ratio Lower Upper
84 100
49 93.8 91.8 137.6
51 25.4 28.5 42.7#
86 70.8 50.2 75.2



#25
2-Butanone
Concen: 22.478 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.00 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

Tgt Ion: 43 Resp: 115150
Ion Ratio Lower Upper
43 100
72 27.3 22.4 33.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

Instrument :

MSVOA_X

ClientSampleId :

COMP-2

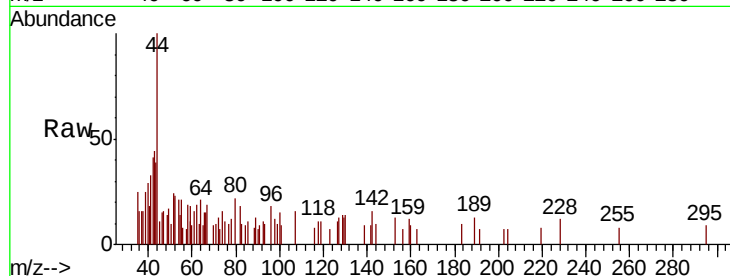
Tot Ion: 49 Resp: 260

Ion Ratio Lower Upper

49 100

129 27.3 0.0 5.4#

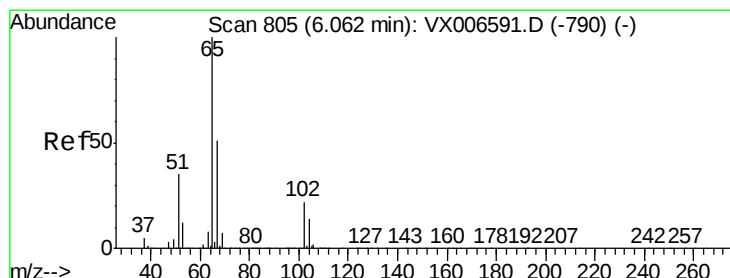
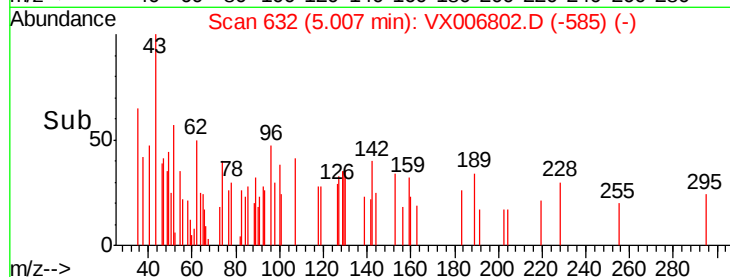
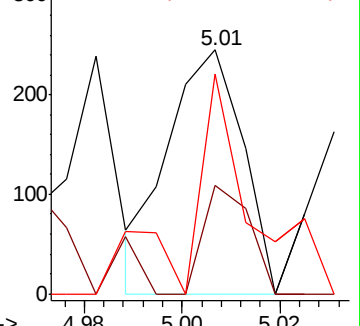
130 76.5 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 45.551 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006802.D

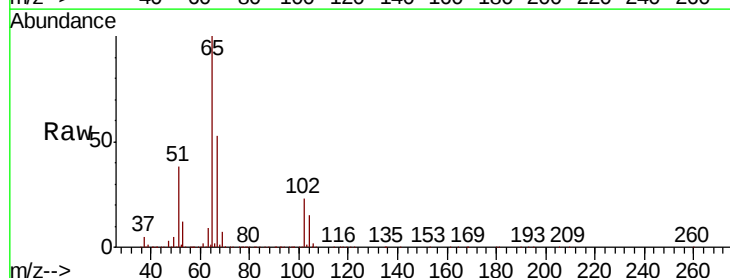
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Tgt Ion: 65 Resp: 361078

Ion Ratio Lower Upper

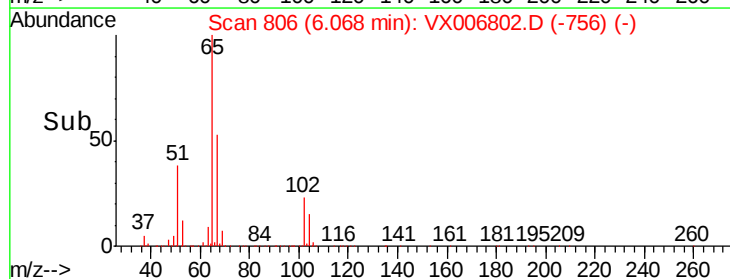
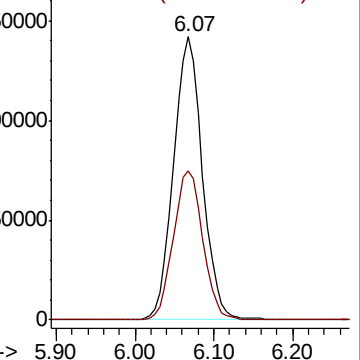
65 100

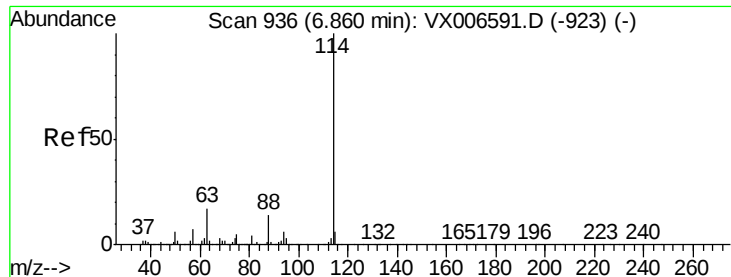
67 53.8 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

Instrument :

MSVOA_X

ClientSampleId :

COMP-2

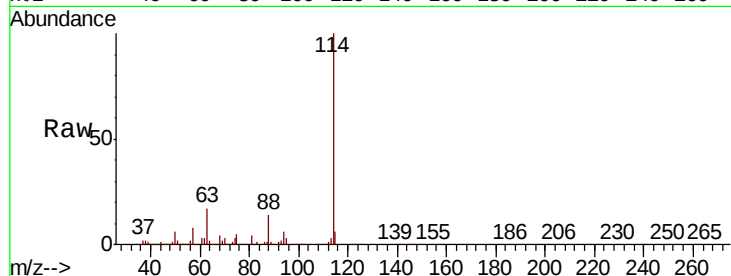
Tot Ion:114 Resp: 1081052

Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.8

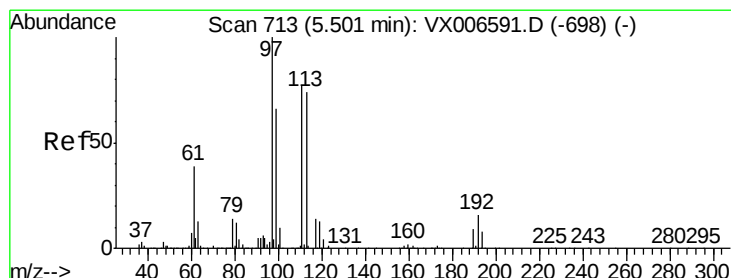
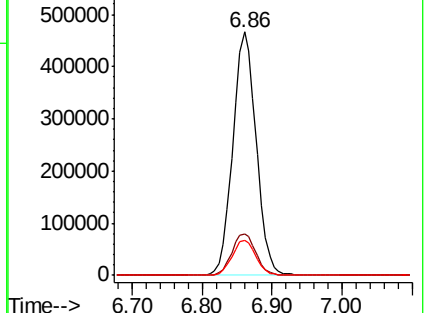
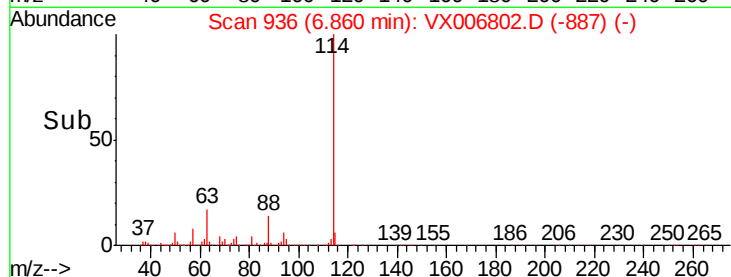
88 14.4 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.748 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

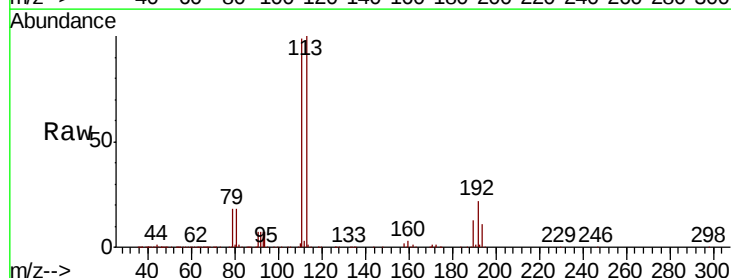
Tgt Ion:113 Resp: 319590

Ion Ratio Lower Upper

113 100

111 101.9 81.6 122.4

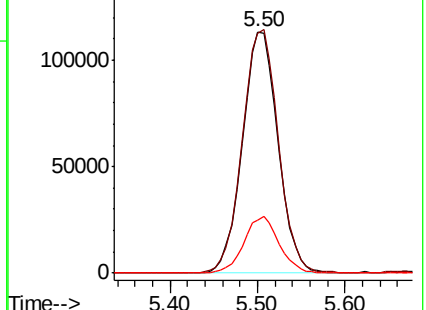
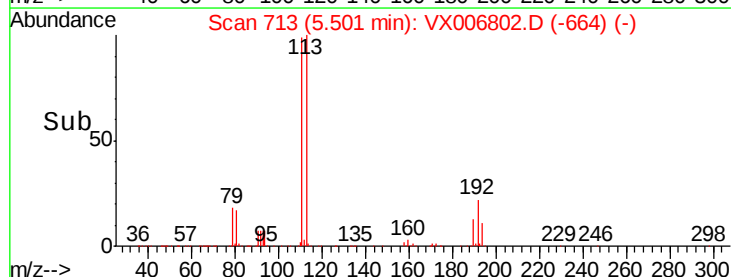
192 23.0 16.7 25.1

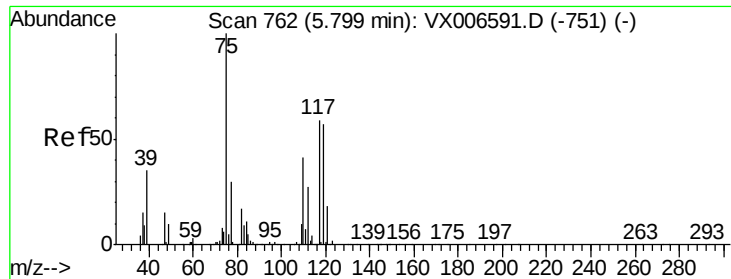


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

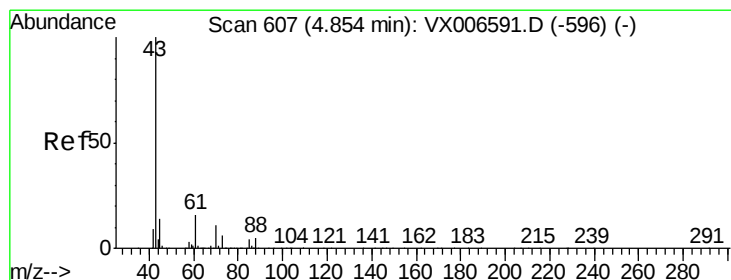
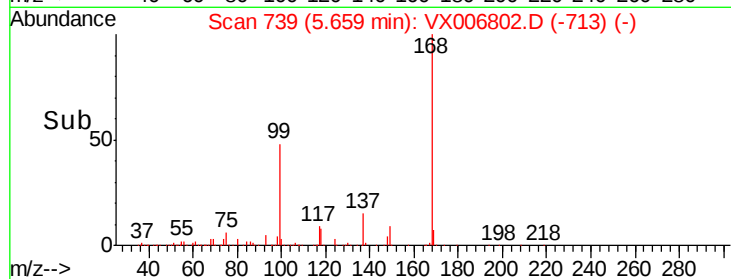
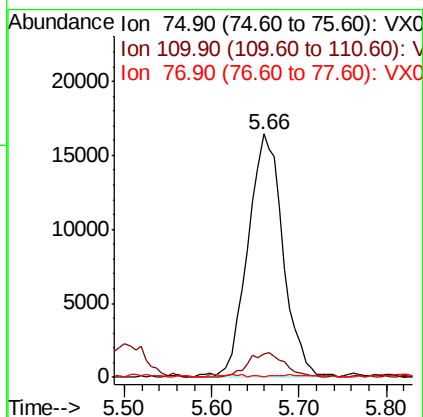
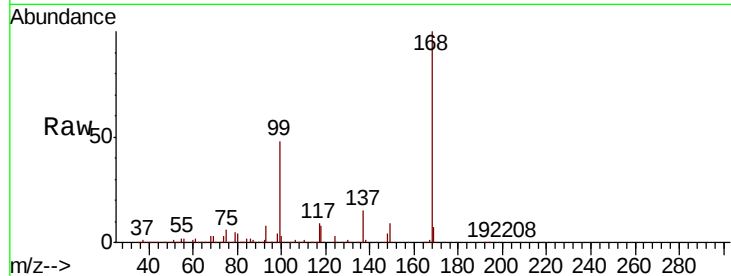




#36
 1,1-Dichloropropene
 Concen: 5.148 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006802.D
 Acq: 24 Dec 2018 18:24

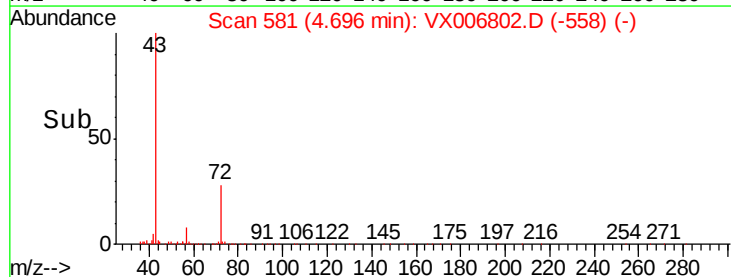
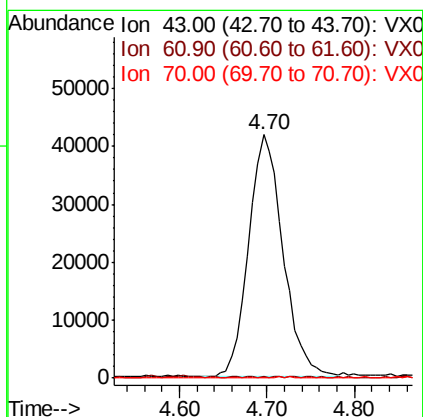
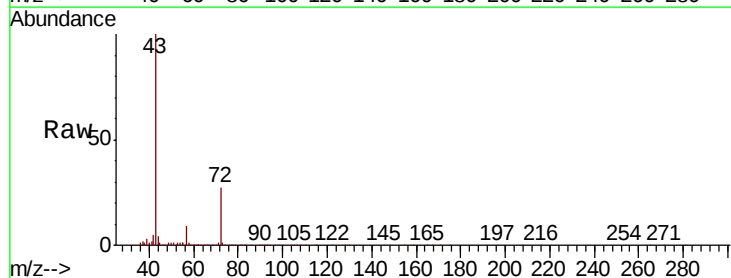
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

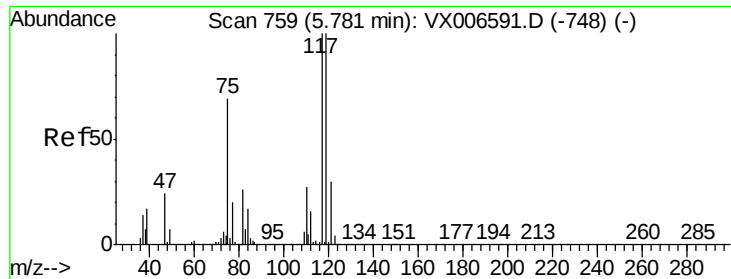
Tot Ion: 75 Resp: 46097
 Ion Ratio Lower Upper
 75 100
 110 11.0 20.2 60.5#
 77 0.2 24.8 37.2#



#37
 Ethyl Acetate
 Concen: 12.356 ug/l
 RT: 4.70 min Scan# 581
 Delta R.T. -0.16 min
 Lab File: VX006802.D
 Acq: 24 Dec 2018 18:24

Tgt Ion: 43 Resp: 115150
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.9 17.9#
 70 0.2 9.7 14.5#

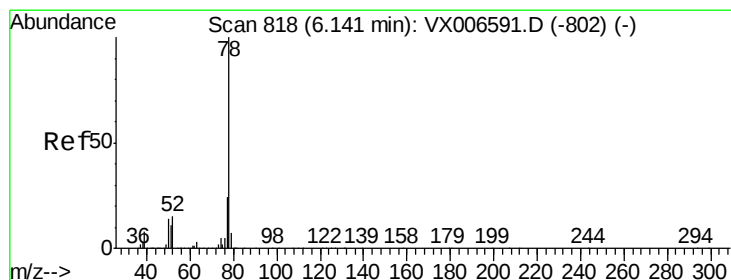
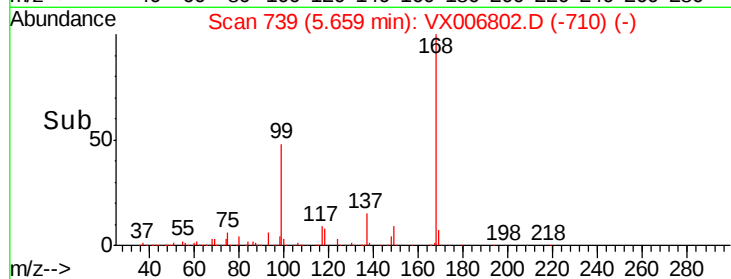
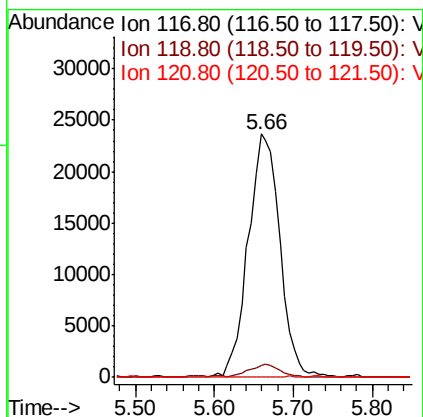
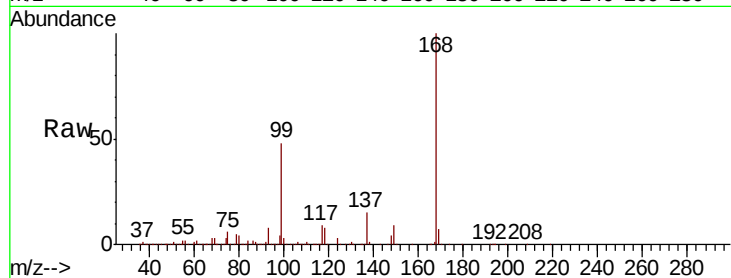




#38
Carbon Tetrachloride
Concen: 7.613 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

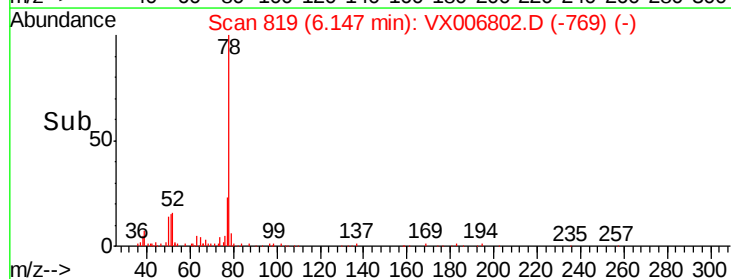
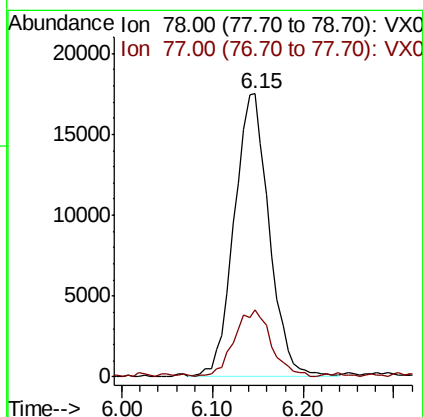
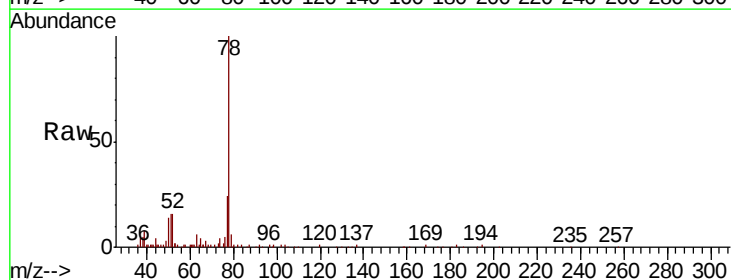
Instrument :
MSVOA_X
ClientSampleId :
COMP-2

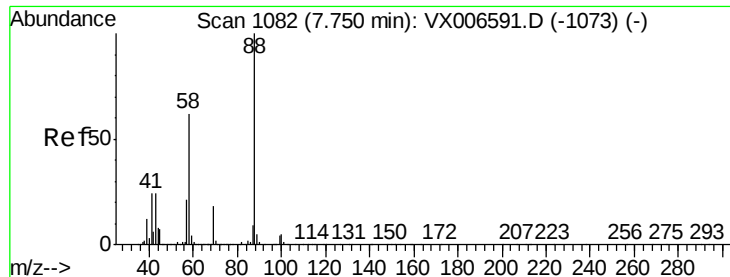
Tot Ion:117 Resp: 66244
Ion Ratio Lower Upper
117 100
119 4.4 79.4 119.2#
121 0.0 24.0 36.0#



#40
Benzene
Concen: 1.704 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

Tgt Ion: 78 Resp: 46387
Ion Ratio Lower Upper
78 100
77 23.3 19.2 28.8





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

Instrument :

MSVOA_X

ClientSampled :

COMP-2

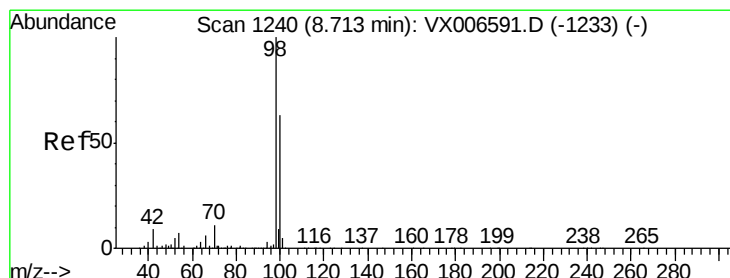
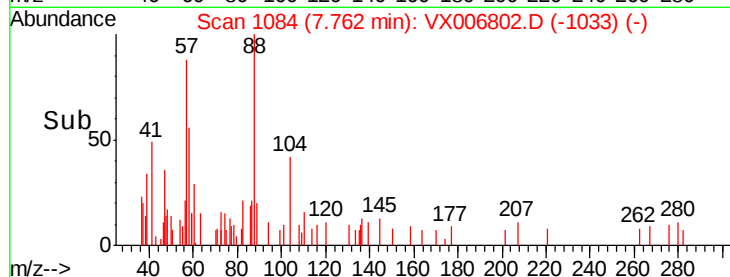
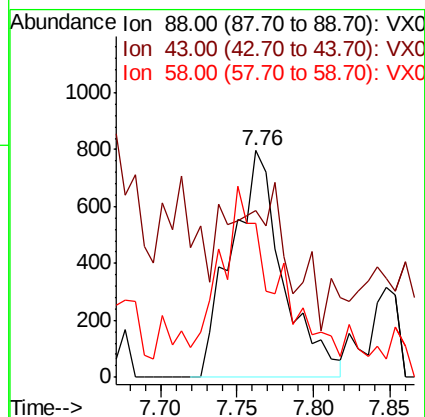
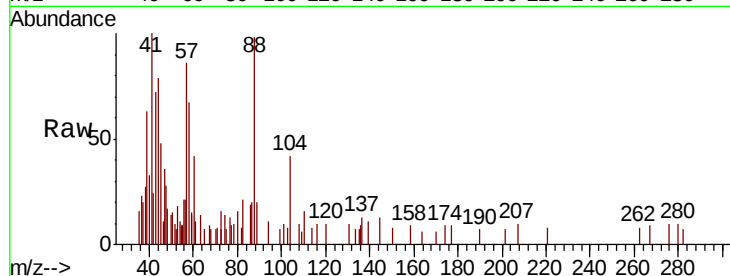
Tot Ion: 88 Resp: 1862

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 96.8 51.0 76.4#



#50

Toluene-d8

Concen: 49.209 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006802.D

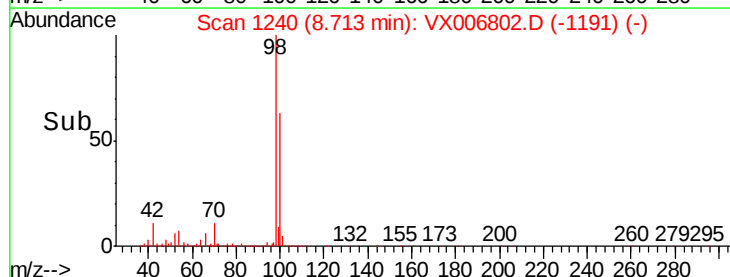
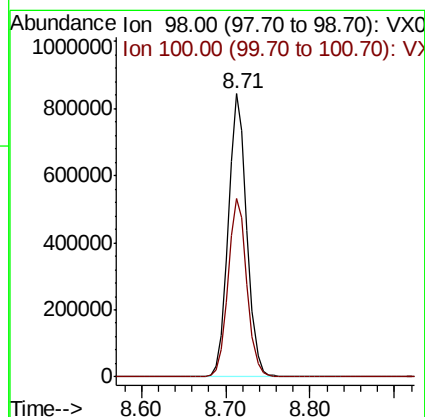
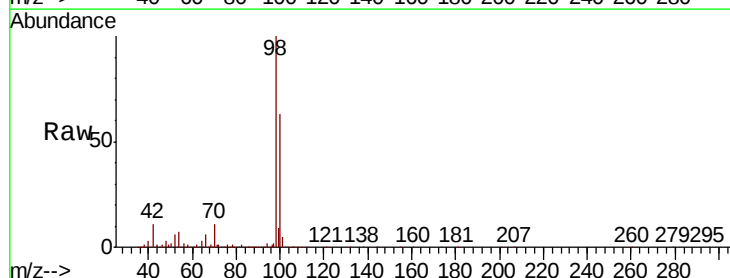
Acq: 24 Dec 2018 18:24

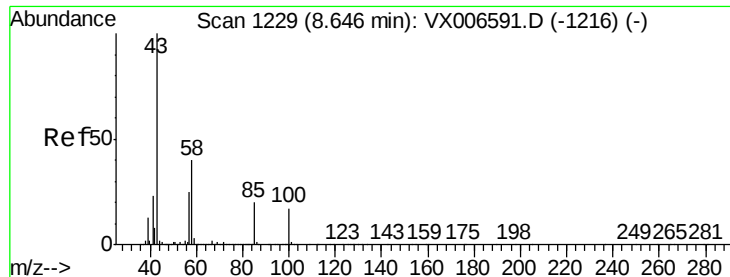
Tgt Ion: 98 Resp: 1268273

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0

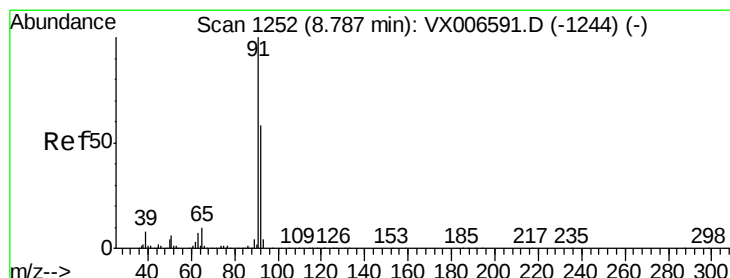
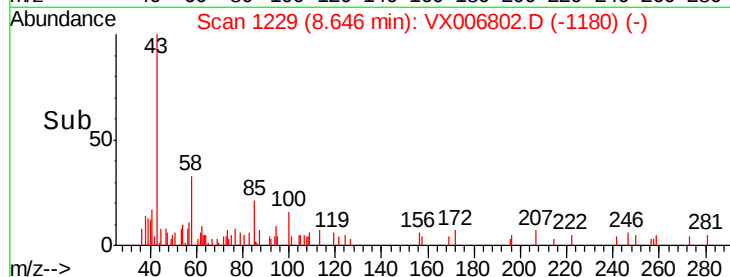
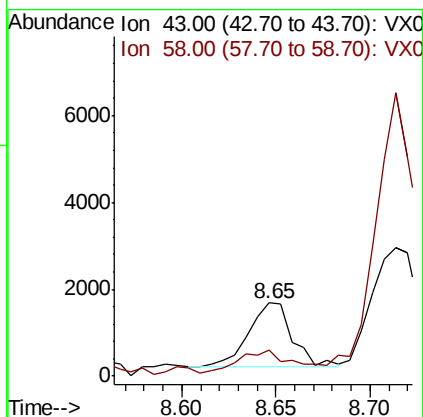
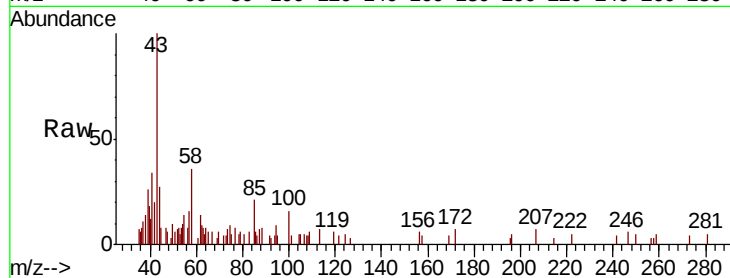




#51
4-Methyl-2-Pentanone
Concen: 0.267 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. -0.00 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

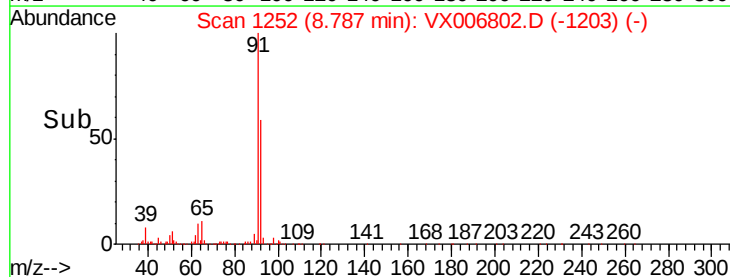
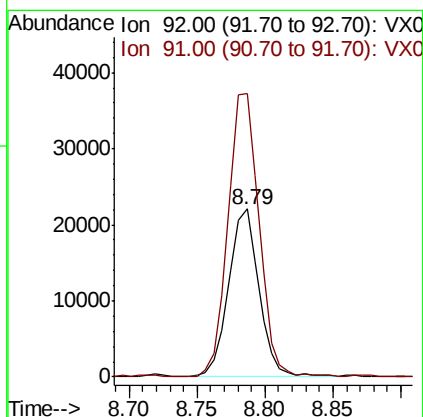
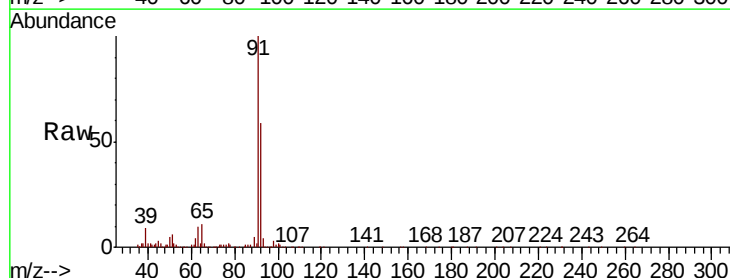
Instrument :
MSVOA_X
ClientSampled :
COMP-2

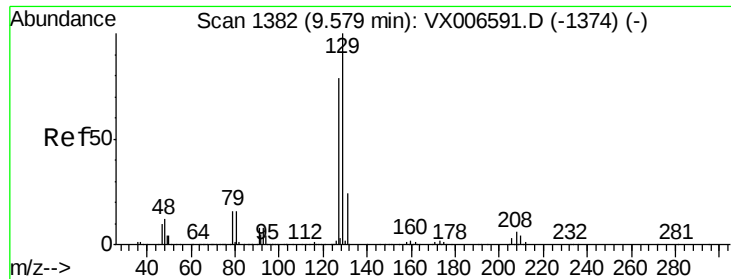
Tot Ion: 43 Resp: 2411
Ion Ratio Lower Upper
43 100
58 46.0 31.8 47.6



#52
Toluene
Concen: 1.941 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

Tgt Ion: 92 Resp: 34130
Ion Ratio Lower Upper
92 100
91 173.0 137.6 206.4





#60

Dibromochloromethane

Concen: 2.333 ug/l

RT: 9.69 min Scan# 1401

Delta R.T. 0.12 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

Instrument :

MSVOA_X

ClientSampleId :

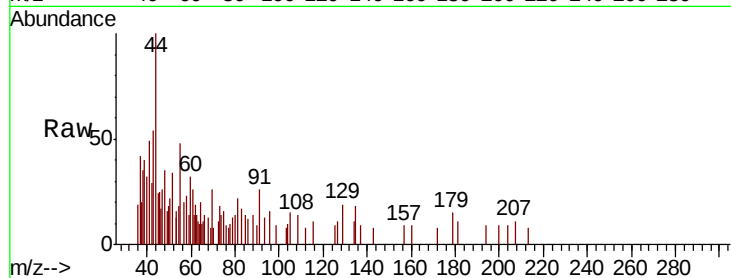
COMP-2

Tot Ion:129 Resp: 67

Ion Ratio Lower Upper

129 100

127 83.6 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.69

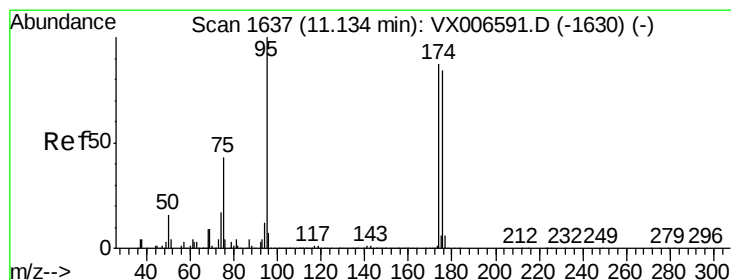
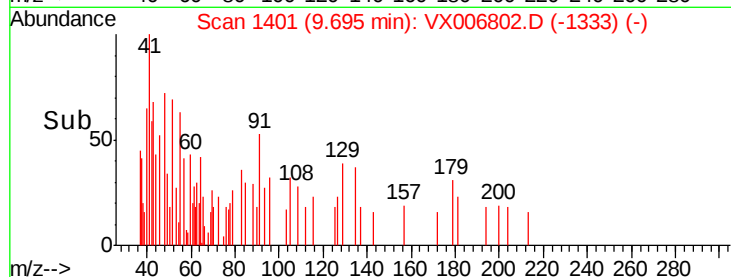
100

50

0

9.68 9.70 9.72

Time-->



#62

4-Bromofluorobenzene

Concen: 48.099 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

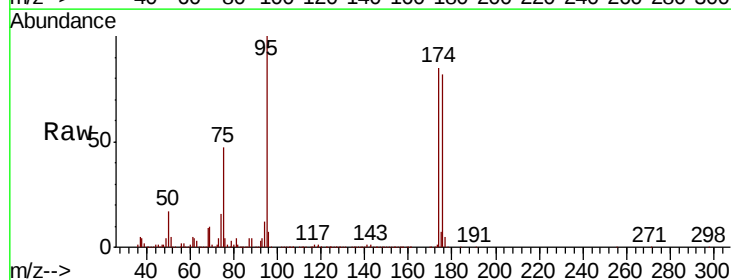
Tgt Ion: 95 Resp: 454016

Ion Ratio Lower Upper

95 100

174 92.0 0.0 182.2

176 90.5 0.0 178.8



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

500000

400000

300000

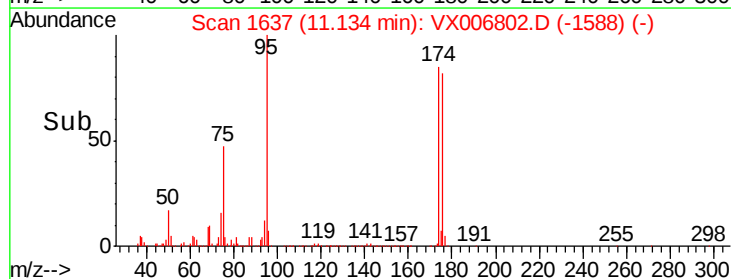
200000

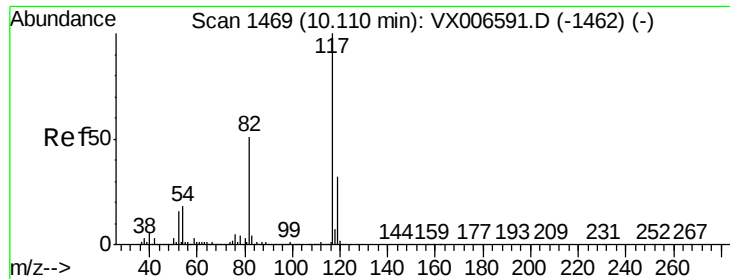
100000

0

11.10 11.20

Time-->

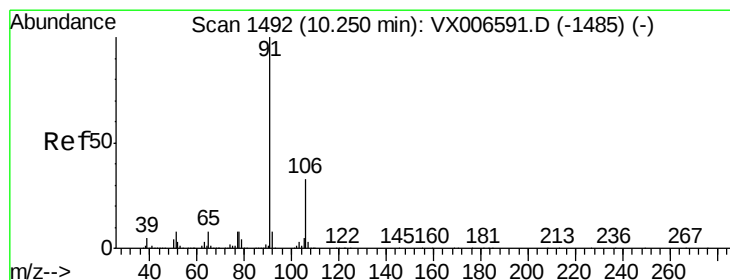
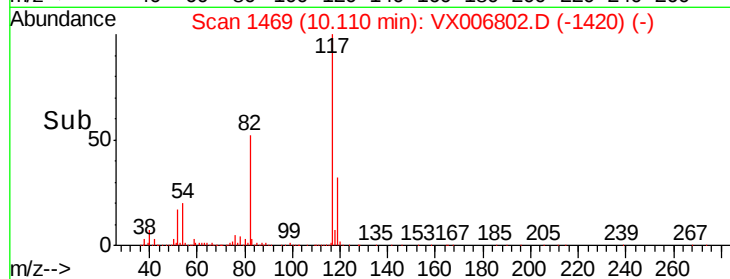
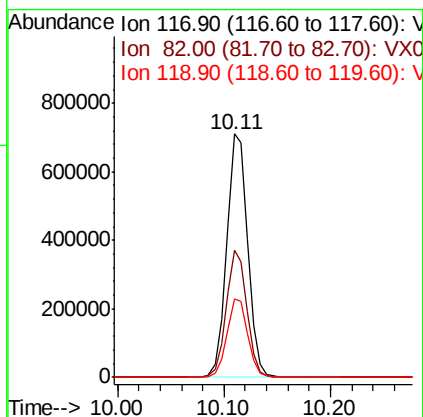
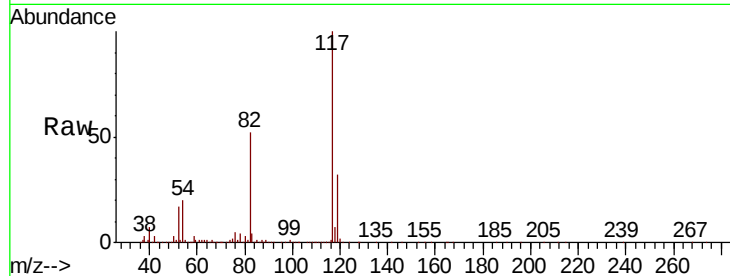




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

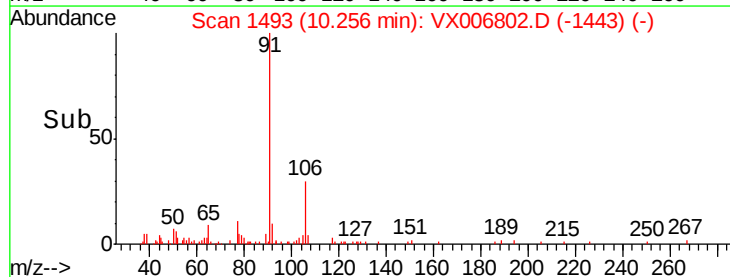
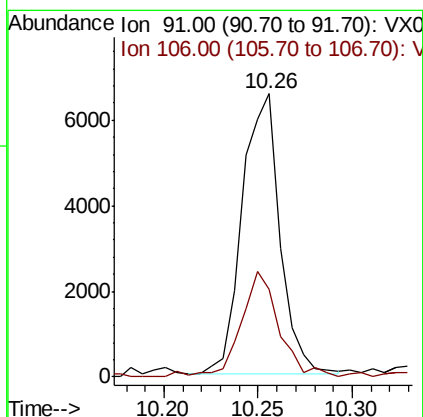
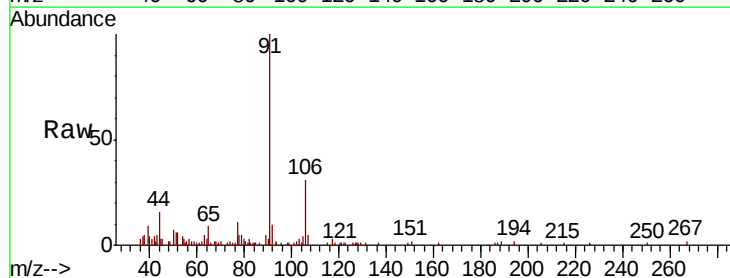
Instrument :
MSVOA_X
ClientSampleId :
COMP-2

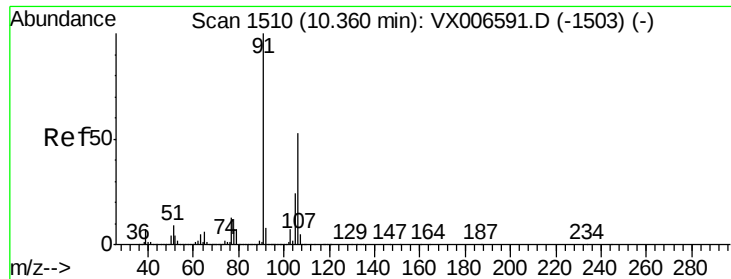
Tot Ion:117 Resp: 979395
Ion Ratio Lower Upper
117 100
82 52.5 41.0 61.6
119 32.4 25.4 38.0



#67
Ethyl Benzene
Concen: 0.267 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

Tgt Ion: 91 Resp: 9052
Ion Ratio Lower Upper
91 100
106 31.1 26.4 39.6

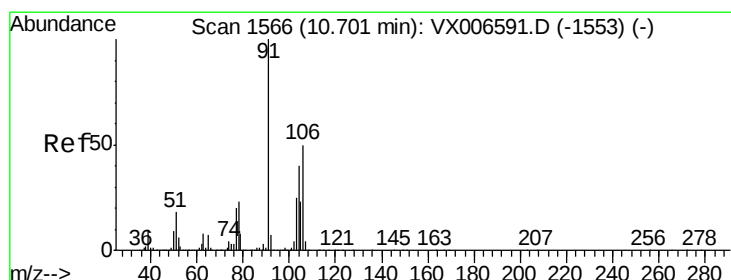
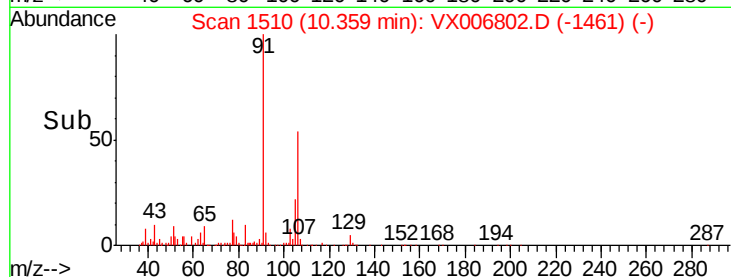
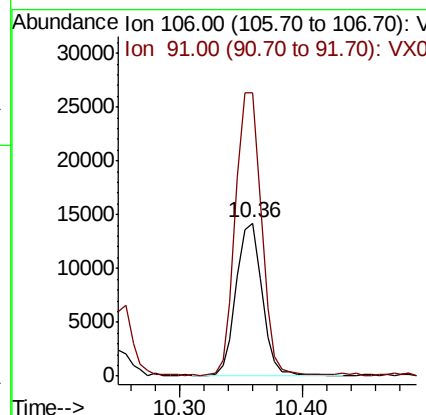
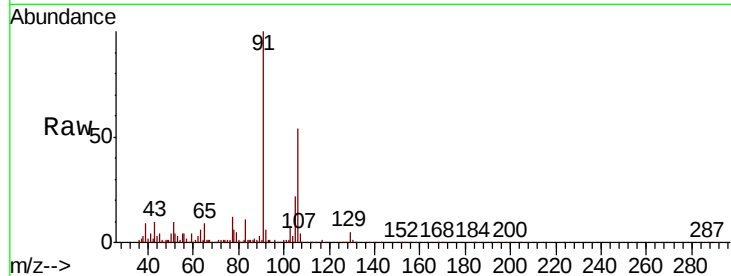




#68
m/p-Xylenes
Concen: 1.575 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

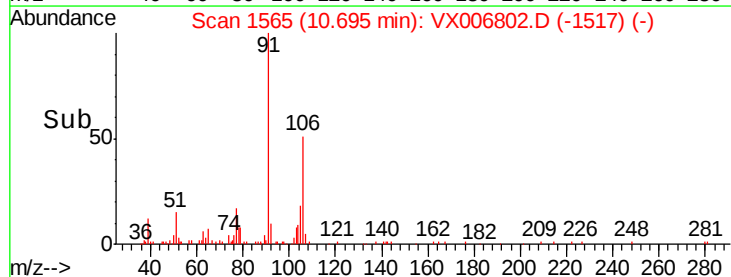
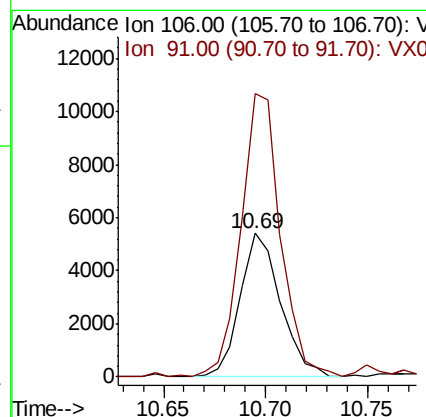
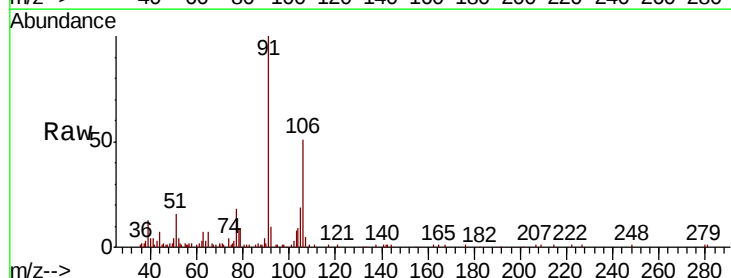
Instrument :
MSVOA_X
ClientSampleId :
COMP-2

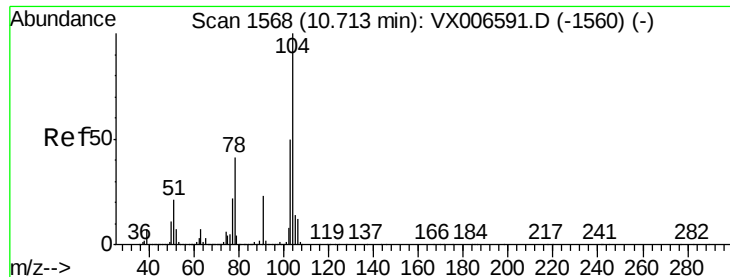
Tot Ion:106 Resp: 21043
Ion Ratio Lower Upper
106 100
91 181.8 155.8 233.6



#69
o-Xylene
Concen: 0.564 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

Tgt Ion:106 Resp: 7442
Ion Ratio Lower Upper
106 100
91 193.0 101.3 303.7





#70

Stvrene

Concen: 0.370 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

Instrument :

MSVOA_X

ClientSampleId :

COMP-2

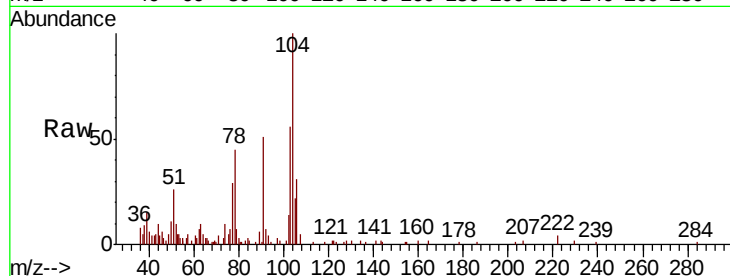
Tot Ion:104 Resp: 7733

Ion Ratio Lower Upper

104 100

78 53.4 37.7 56.5

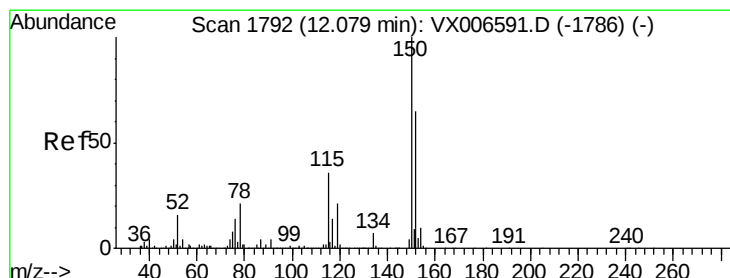
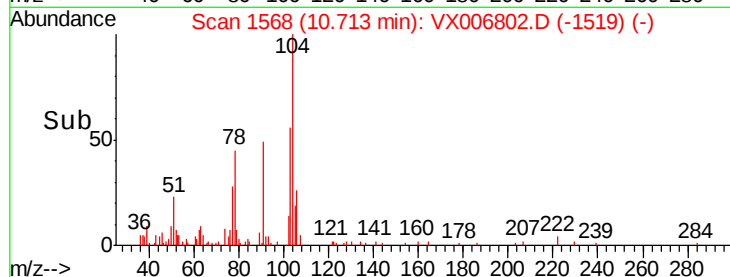
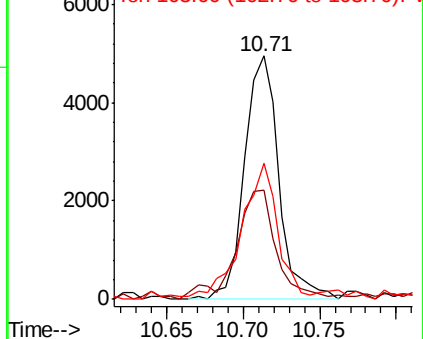
103 59.2 43.8 65.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

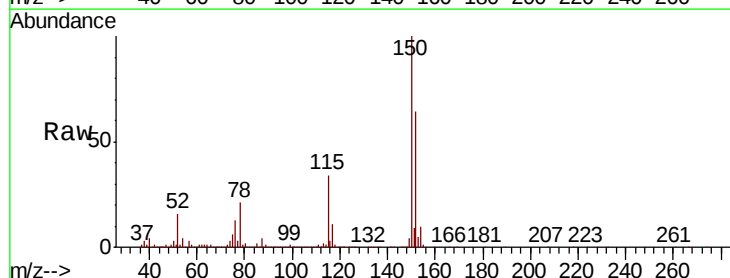
Tgt Ion:152 Resp: 482788

Ion Ratio Lower Upper

152 100

115 54.6 39.1 117.2

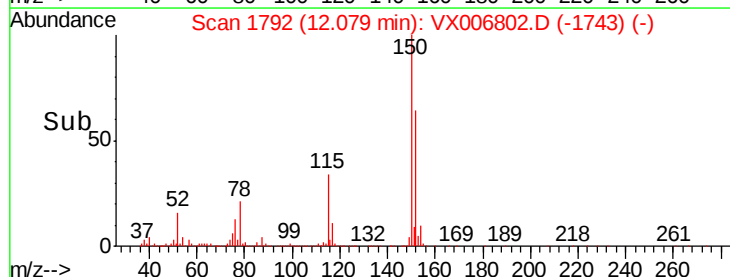
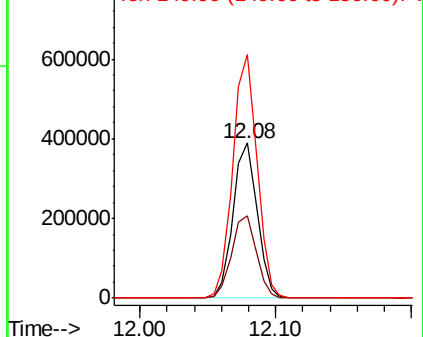
150 157.7 0.0 344.8

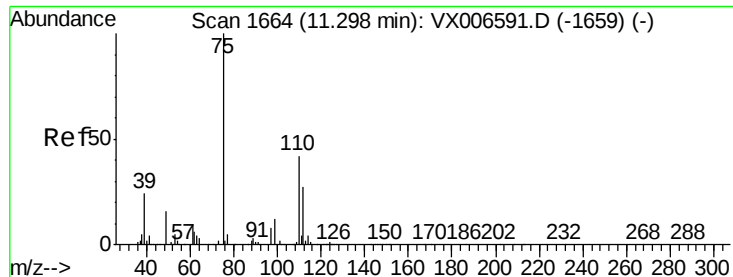


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.550 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

Instrument :

MSVOA_X

ClientSampleId :

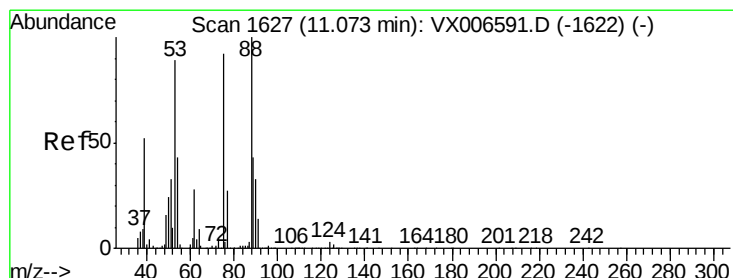
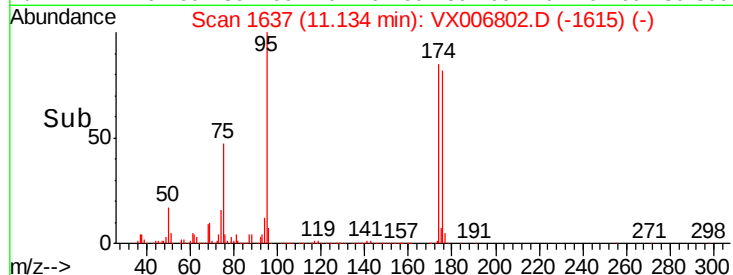
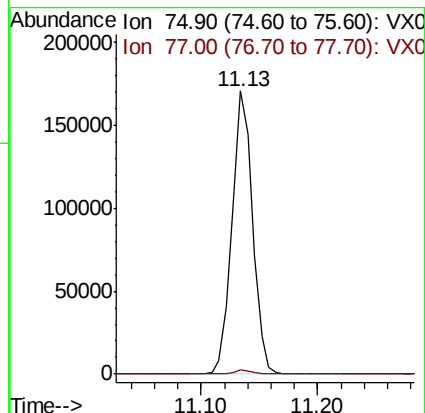
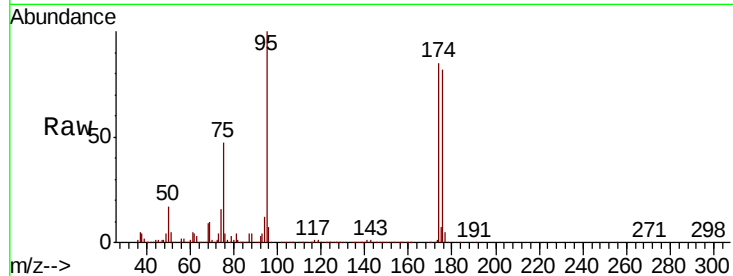
COMP-2

Tot Ion: 75 Resp: 211292

Ion Ratio Lower Upper

75 100

77 1.2 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.834 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006802.D

Acq: 24 Dec 2018 18:24

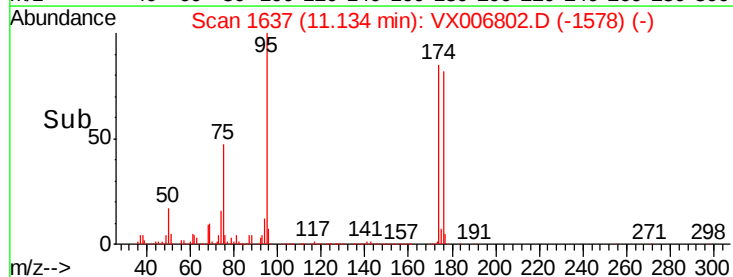
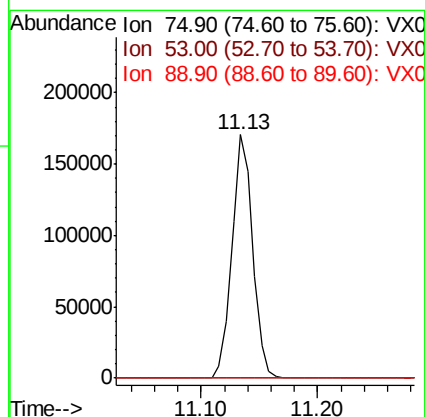
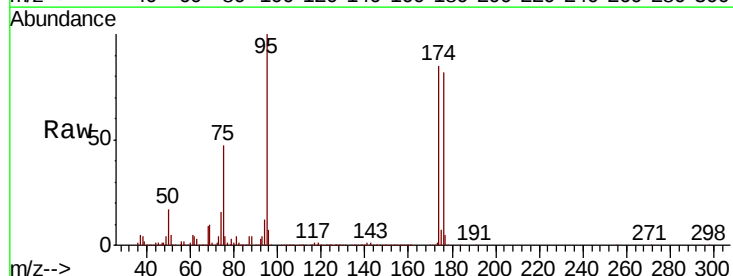
Tgt Ion: 75 Resp: 211292

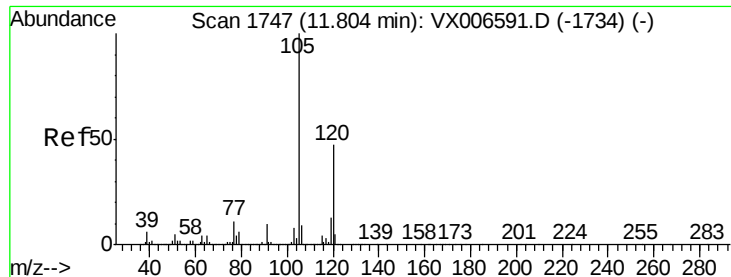
Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.0 38.0 57.0#

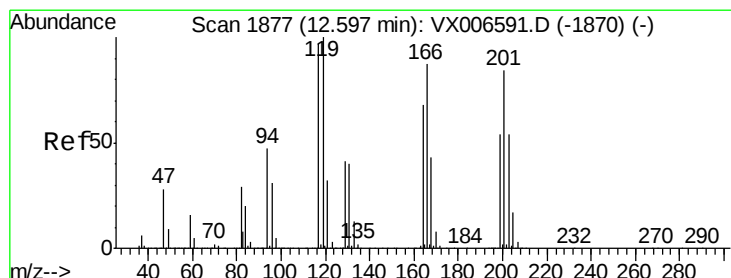
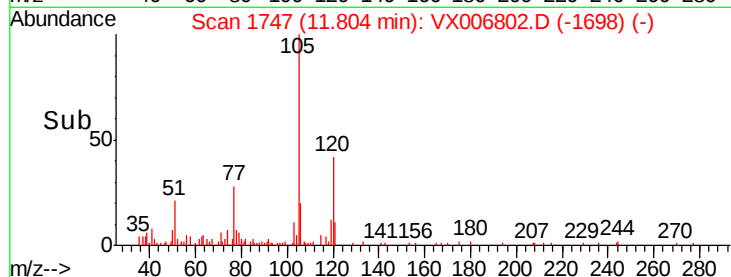
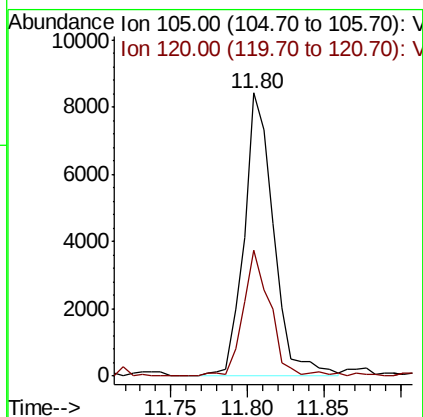
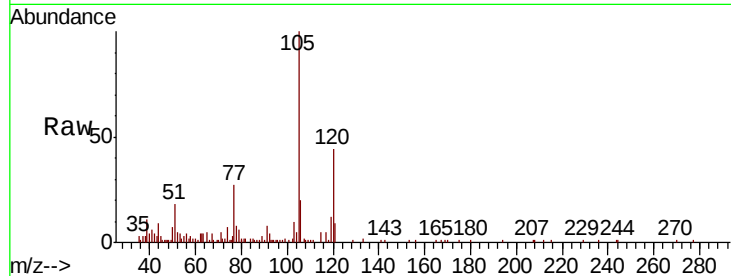




#84
 1,2,4-Trimethylbenzene
 Concen: 0.393 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: VX006802.D
 Acq: 24 Dec 2018 18:24

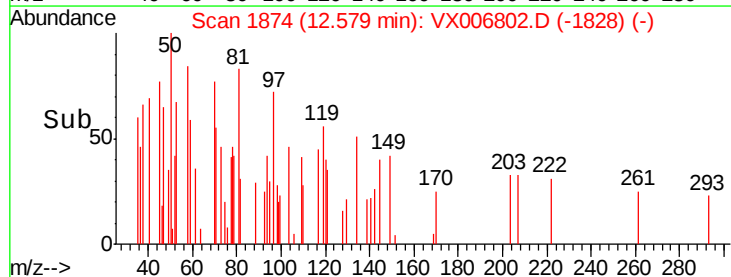
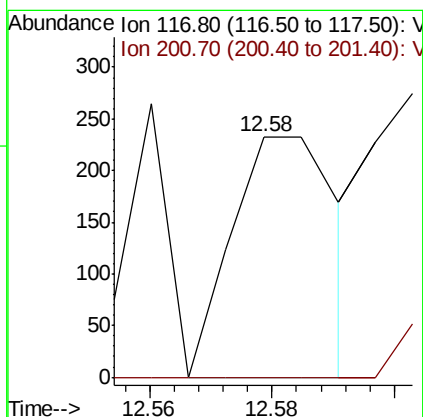
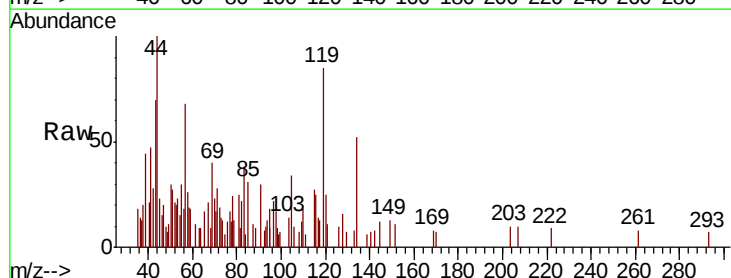
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-2

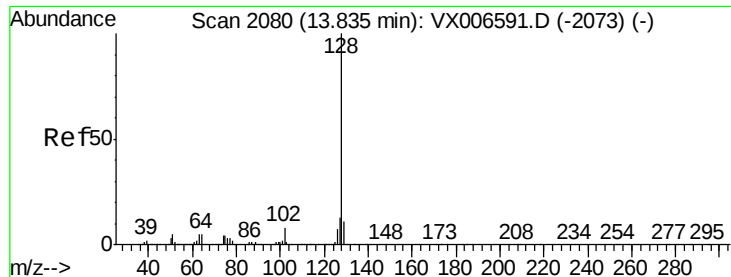
Tot Ion:105 Resp: 11255
 Ion Ratio Lower Upper
 105 100
 120 40.4 23.2 69.6



#90
 Hexachloroethane
 Concen: 3.350 ug/l
 RT: 12.58 min Scan# 1874
 Delta R.T. -0.02 min
 Lab File: VX006802.D
 Acq: 24 Dec 2018 18:24

Tgt Ion:117 Resp: 277
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.9 128.7#





#95
Naphthalene
Concen: 0.337 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX006802.D
Acq: 24 Dec 2018 18:24

Instrument :
MSVOA_X
ClientSampleId :
COMP-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.2	10.1	15.1#
129	15.2	8.6	13.0#

