

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006705.D
 Acq On : 21 Dec 2018 05:08
 Operator : JC/MD
 Sample : J6517-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 07:49:51 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	692525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1057991	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	949716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	460333	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	356236	47.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.46%	
35) Dibromofluoromethane	5.51	113	313523	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
50) Toluene-d8	8.71	98	1235852	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	
62) 4-Bromofluorobenzene	11.13	95	435974	47.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.38%	

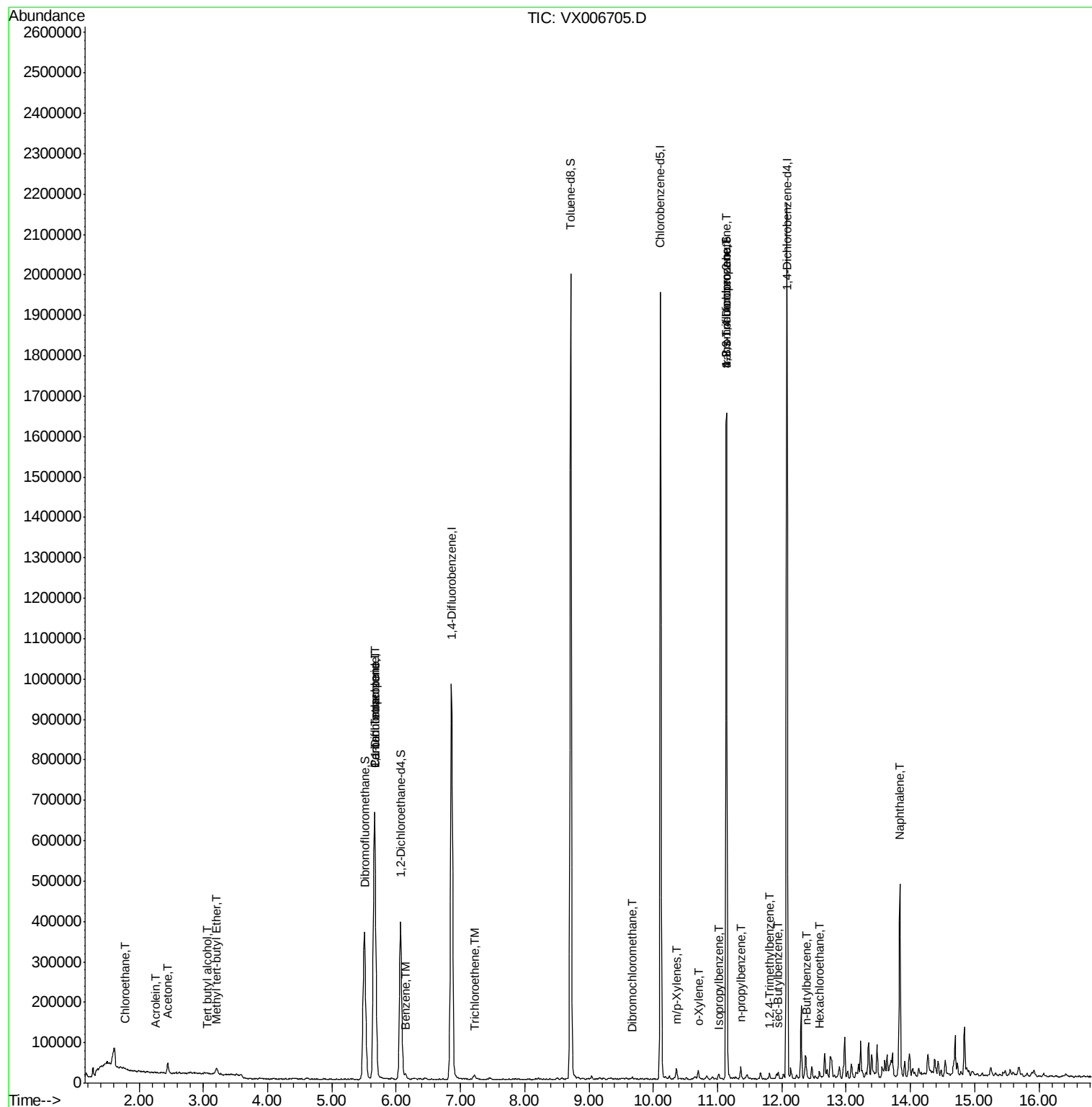
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	433	Below Cal	#	67
6) Chloroethane	1.78	64	9269	1.878	ug/l #	42
11) Tert butyl alcohol	3.07	59	866	0.520	ug/l #	45
13) Acrolein	2.26	56	288	0.256	ug/l #	1
16) Acetone	2.45	43	25362	7.396	ug/l #	86
19) Methyl tert-butyl Ether	3.20	73	16003	0.779	ug/l	97
28) Bromochloromethane	4.98	49	524	Below Cal	#	13
36) 1,1-Dichloropropene	5.67	75	44492	5.077	ug/l #	48
38) Carbon Tetrachloride	5.66	117	62575	7.348	ug/l #	13
40) Benzene	6.14	78	14125	0.530	ug/l #	87
44) Trichloroethene	7.21	130	3762	0.467	ug/l	90
49) 1,4-Dioxane	7.76	88	63	Below Cal	#	1
60) Dibromochloromethane	9.68	129	48	2.330	ug/l	75
68) m/p-Xylenes	10.36	106	5368	0.414	ug/l	92
69) o-Xylene	10.70	106	4910	0.384	ug/l	86
73) Isopropylbenzene	11.02	105	7103	0.226	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	207706	24.279	ug/l #	40
78) n-propylbenzene	11.36	91	17450	0.503	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	207706	71.866	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	6038	0.221	ug/l	94
85) sec-Butylbenzene	11.94	105	8539	0.268	ug/l	83
89) n-Butylbenzene	12.39	91	10114	0.425	ug/l #	66
90) Hexachloroethane	12.60	117	1633	3.642	ug/l #	15
95) Naphthalene	13.83	128	303410	8.978	ug/l	98

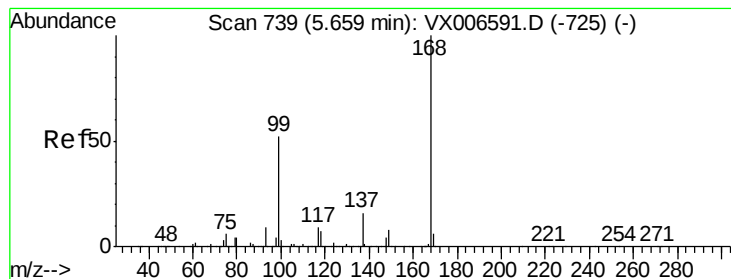
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

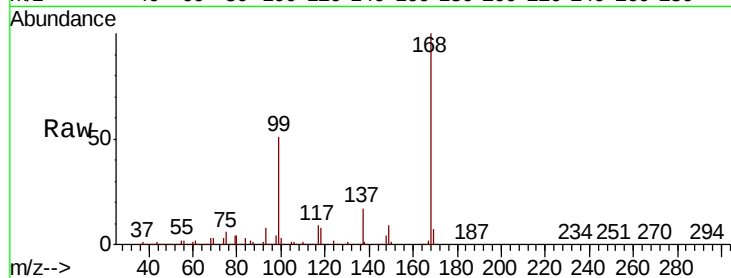
ClientSampleId :

Tot Ion:168 Resp: 692525

Ion Ratio Lower Upper

168 100

99 50.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

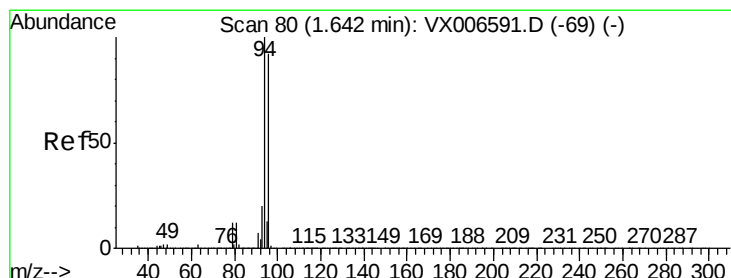
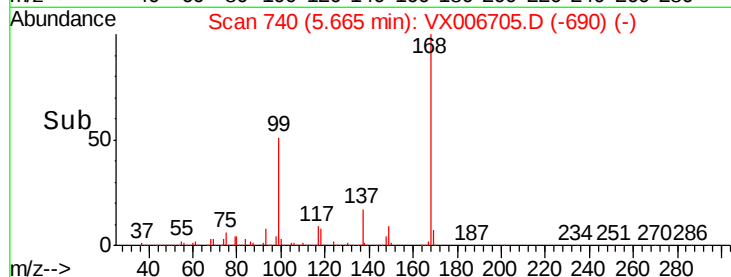
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006705.D

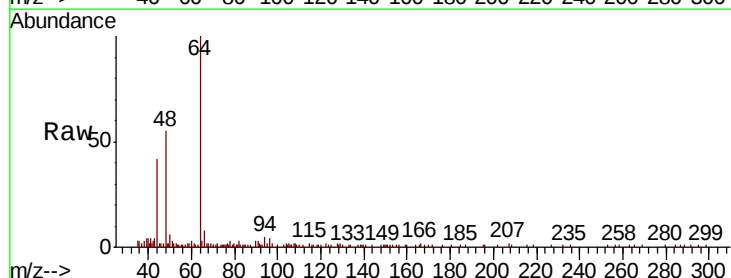
Acq: 21 Dec 2018 05:08

Tgt Ion: 94 Resp: 433

Ion Ratio Lower Upper

94 100

96 59.9 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

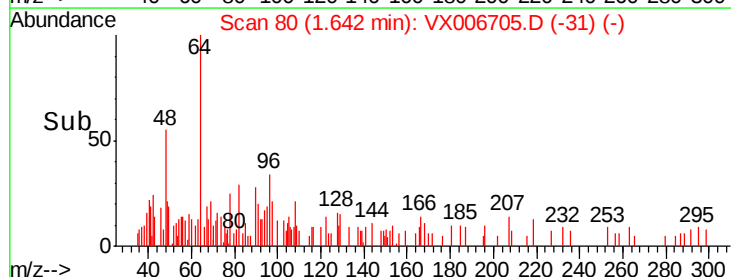
300

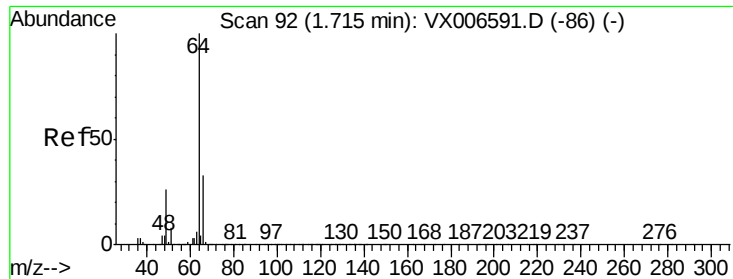
200

100

0

Time-->





#6

Chloroethane

Concen: 1.878 ug/l

RT: 1.78 min Scan# 103

Delta R.T. 0.07 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

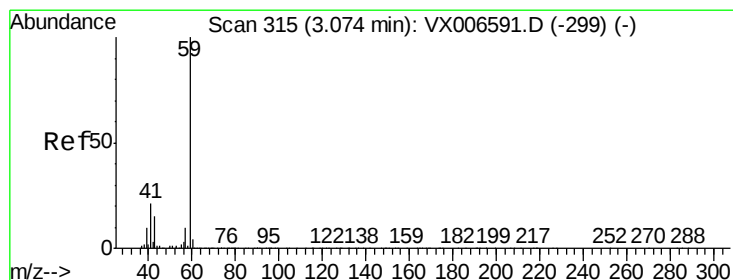
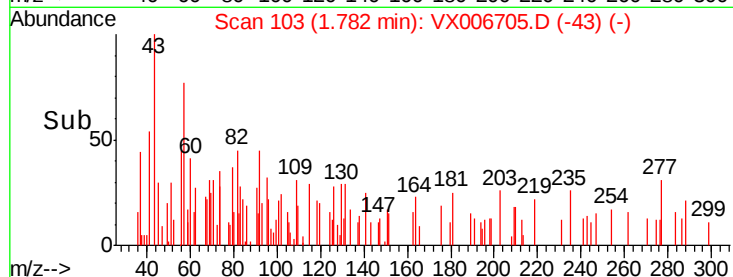
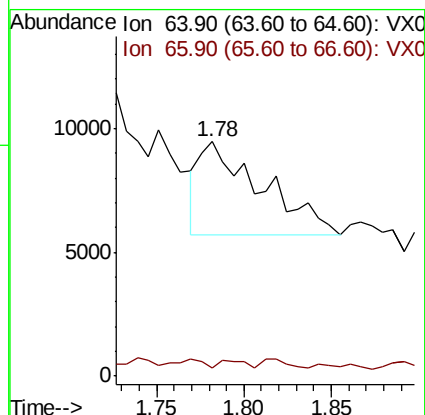
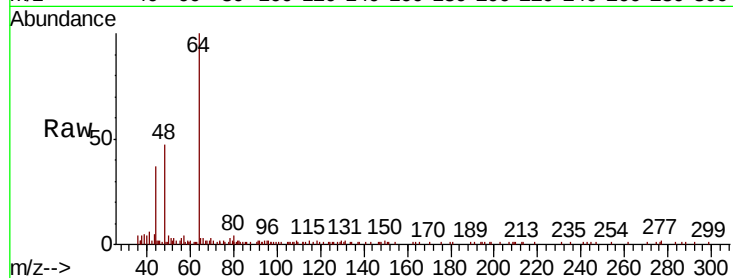
ClientSampled :

Tot Ion: 64 Resp: 9269

Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#



#11

Tert butyl alcohol

Concen: 0.520 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX006705.D

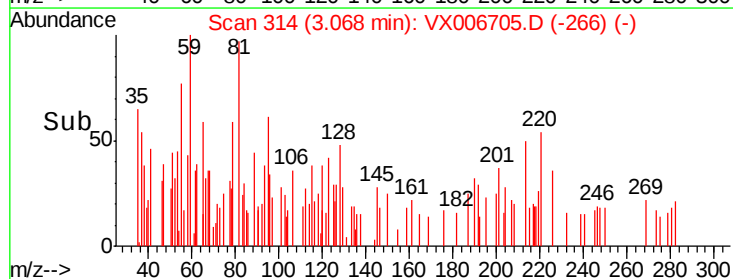
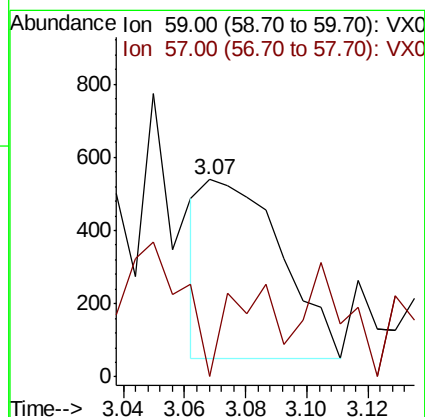
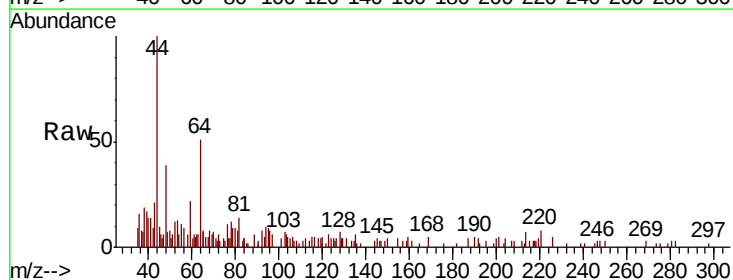
Acq: 21 Dec 2018 05:08

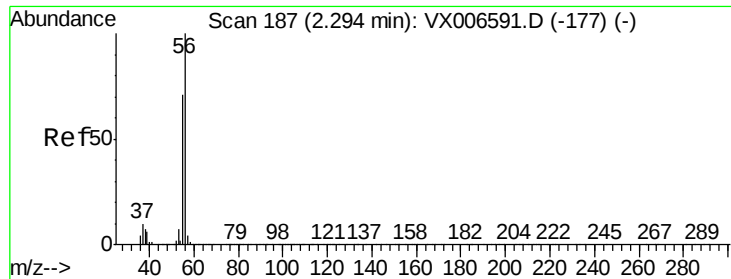
Tgt Ion: 59 Resp: 866

Ion Ratio Lower Upper

59 100

57 31.4 8.5 12.7#





#13

Acrolein

Concen: 0.256 ug/l

RT: 2.26 min Scan# 182

Delta R.T. -0.03 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

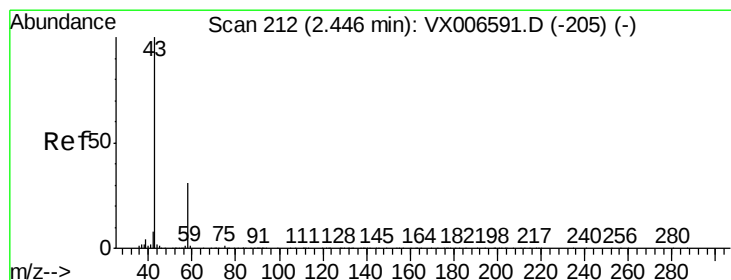
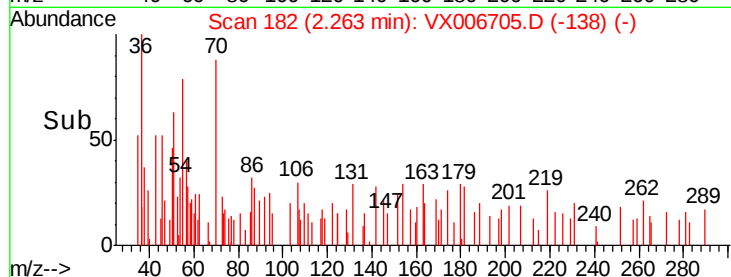
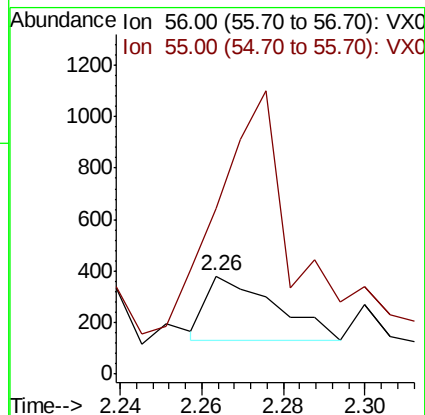
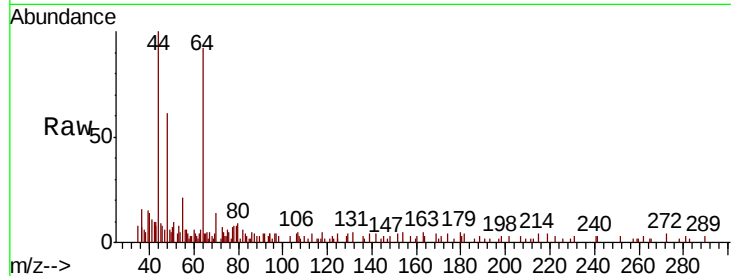
ClientSampleId :

Tot Ion: 56 Resp: 288

Ion Ratio Lower Upper

56 100

55 442.7 58.2 87.4#



#16

Acetone

Concen: 7.396 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006705.D

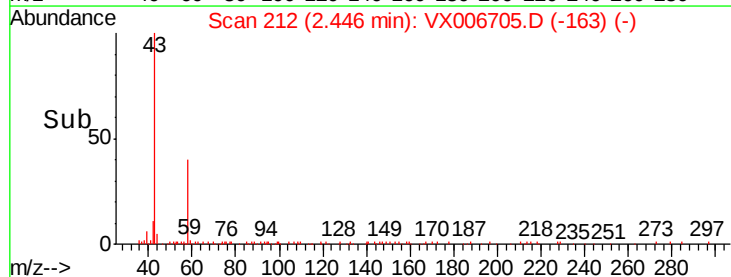
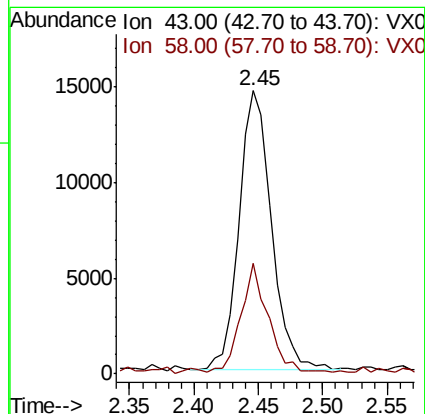
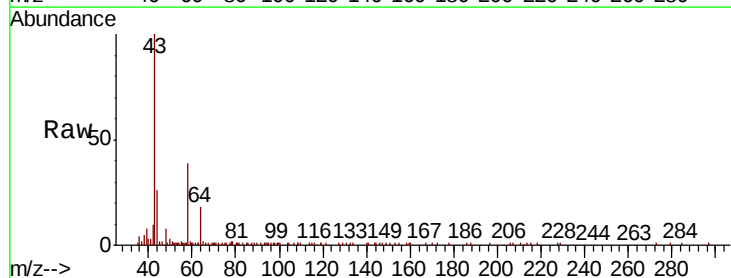
Acq: 21 Dec 2018 05:08

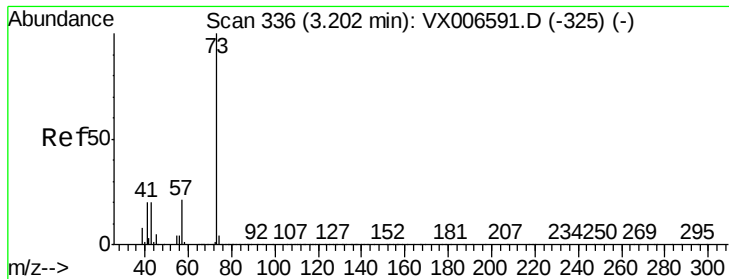
Tgt Ion: 43 Resp: 25362

Ion Ratio Lower Upper

43 100

58 38.8 25.0 37.6#

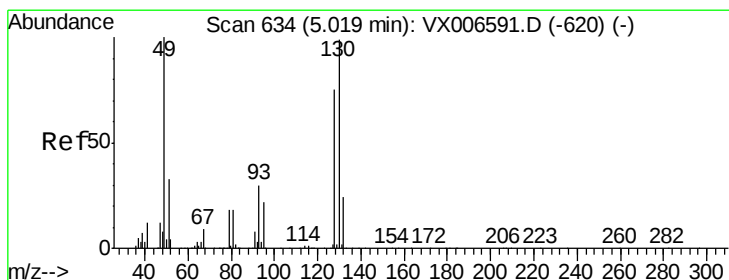
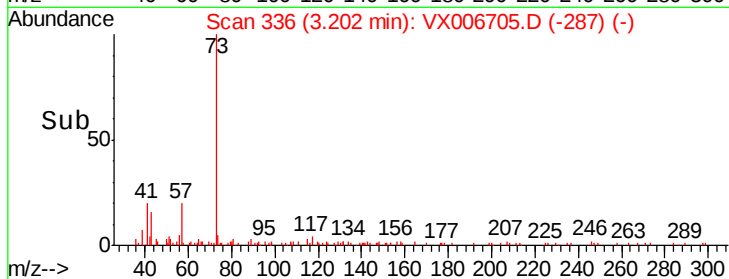
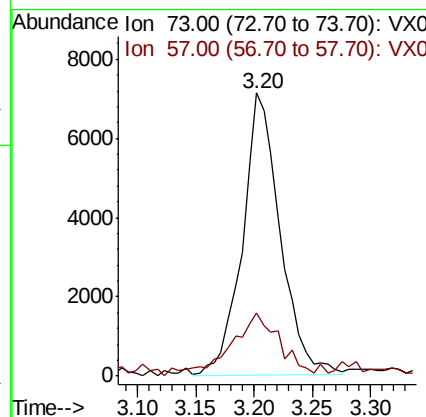
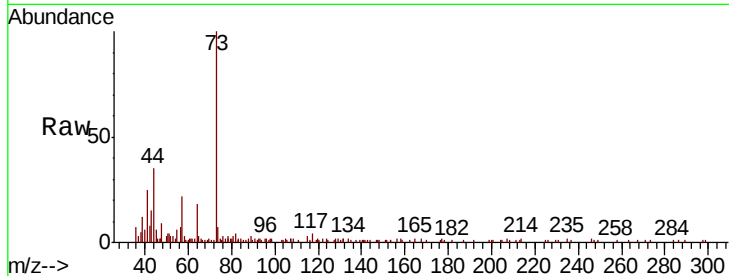




#19
Methvl tert-butvl Ether
Concen: 0.779 ug/l
RT: 3.20 min Scan# 336
Delta R.T. -0.00 min
Lab File: VX006705.D
Acq: 21 Dec 2018 05:08

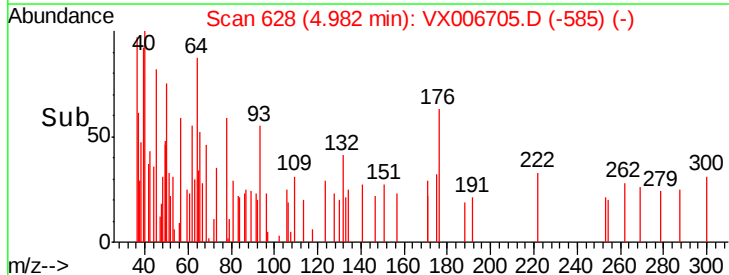
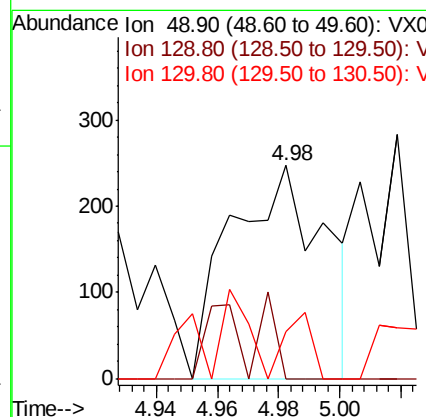
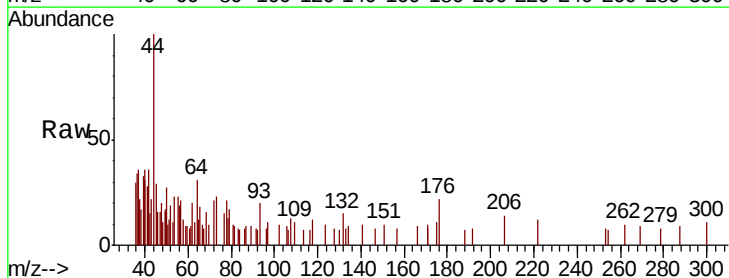
Instrument :
MSVOA_X
ClientSampleId :

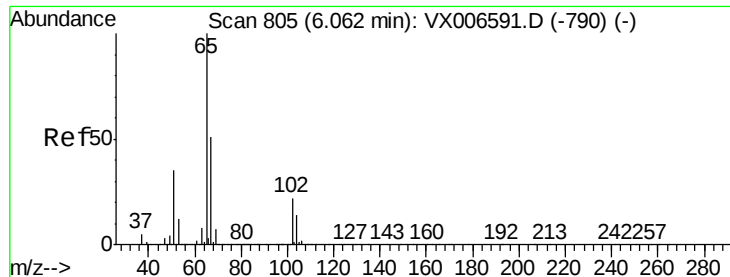
Tot Ion: 73 Resp: 16003
Ion Ratio Lower Upper
73 100
57 19.4 16.8 25.2



#28
Bromochloromethane
Concen: Below Cal
RT: 4.98 min Scan# 628
Delta R.T. -0.04 min
Lab File: VX006705.D
Acq: 21 Dec 2018 05:08

Tgt Ion: 49 Resp: 524
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 9.2 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 47.729 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

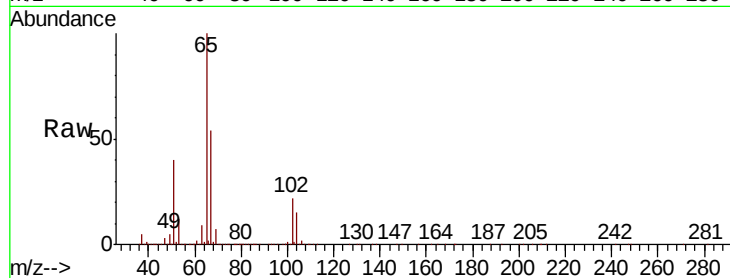
ClientSampleId :

Tot Ion: 65 Resp: 356236

Ion Ratio Lower Upper

65 100

67 53.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

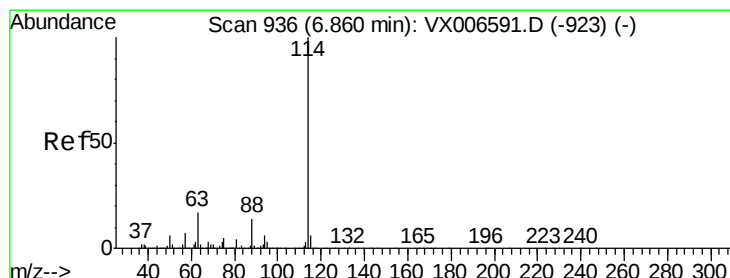
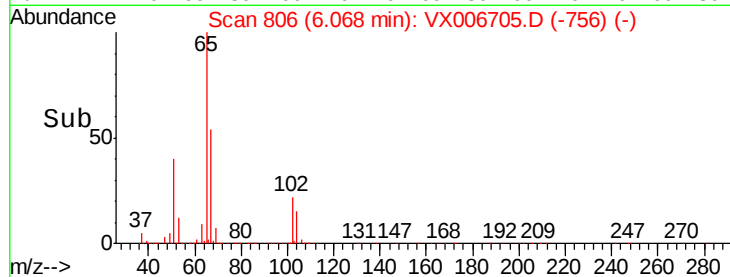
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

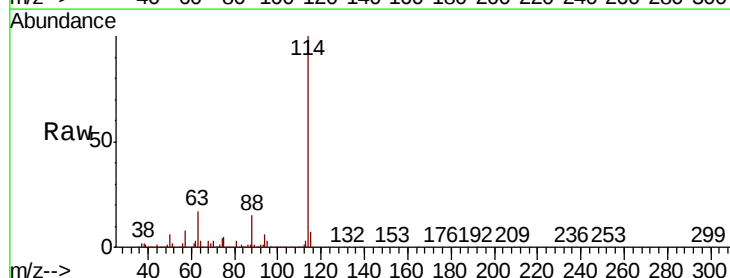
Tgt Ion: 114 Resp: 1057991

Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.8

88 15.3 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

600000

500000

400000

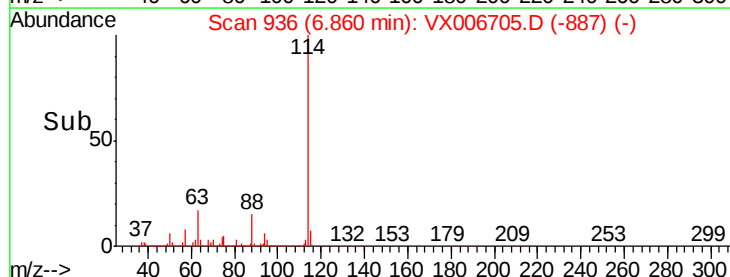
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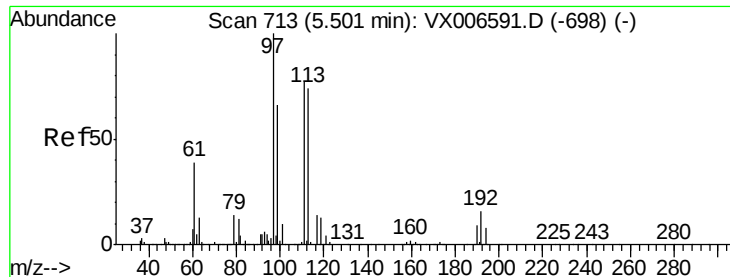
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 46.861 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :
MSVOA_X
ClientSampleId :

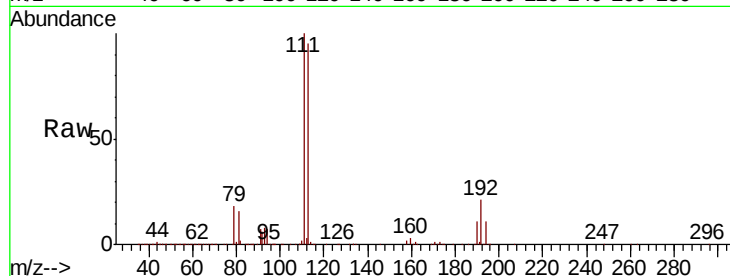
Tot Ion:113 Resp: 313523

Ion Ratio Lower Upper

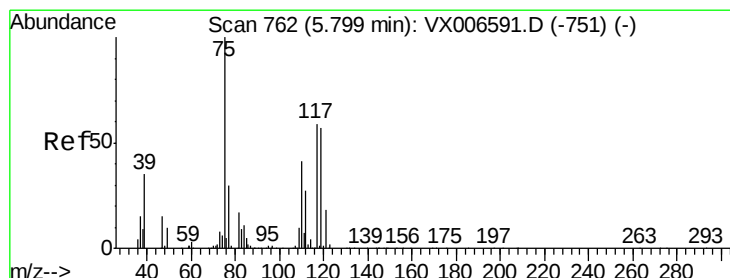
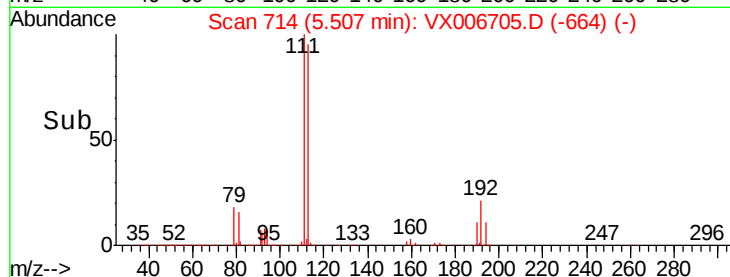
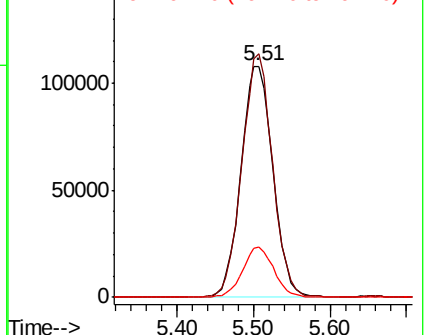
113 100

111 100.9 81.6 122.4

192 21.2 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: 5.077 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

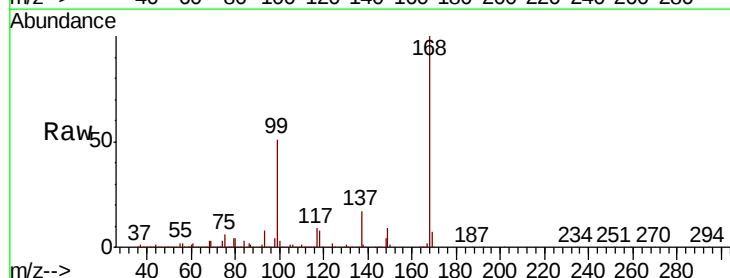
Tgt Ion: 75 Resp: 44492

Ion Ratio Lower Upper

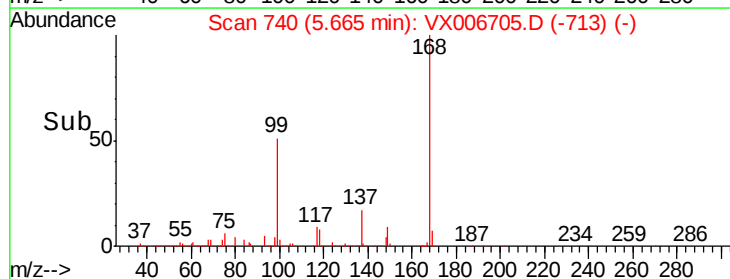
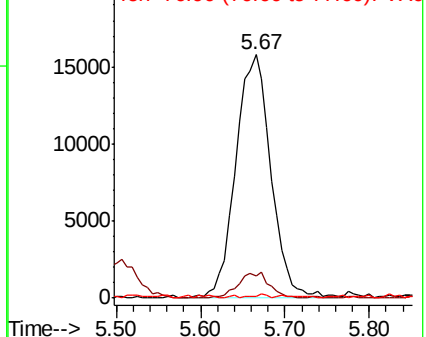
75 100

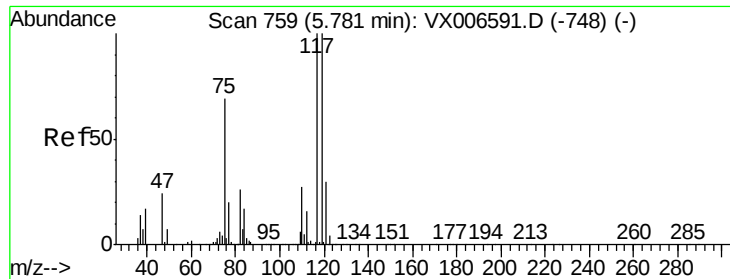
110 9.3 20.2 60.5#

77 0.6 24.8 37.2#



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: 7.348 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

ClientSampleId :

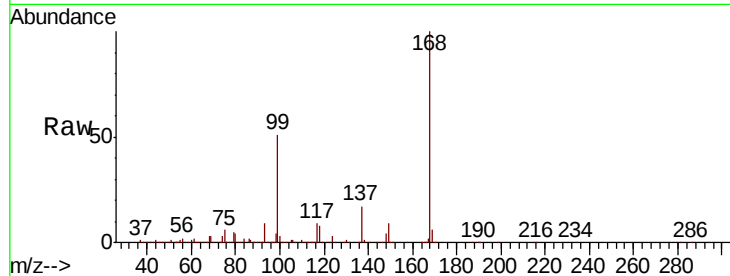
Tot Ion:117 Resp: 62575

Ion Ratio Lower Upper

117 100

119 3.6 79.4 119.2#

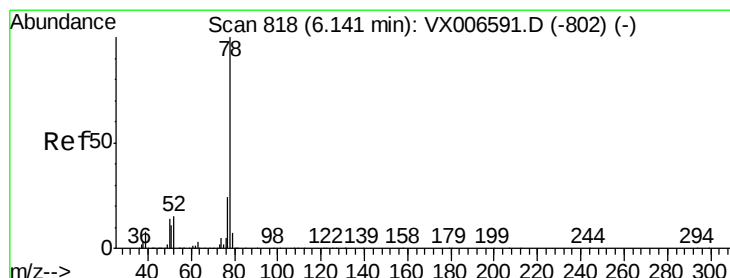
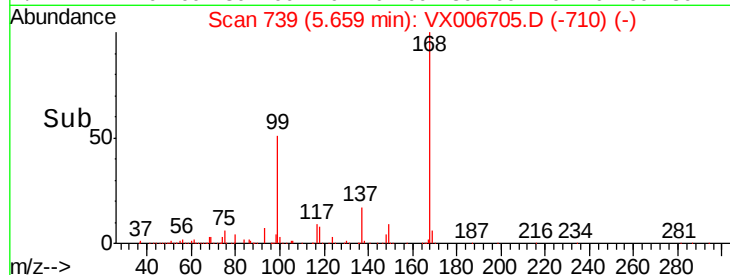
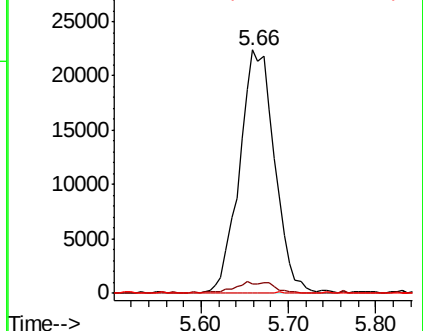
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.530 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX006705.D

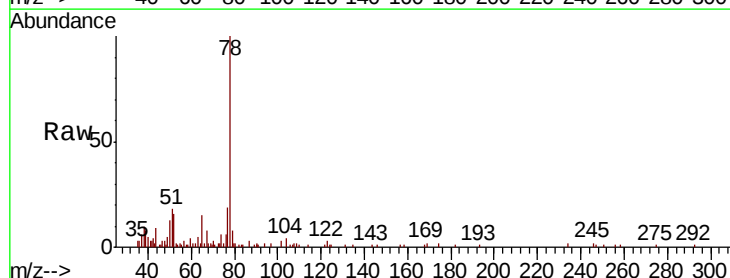
Acq: 21 Dec 2018 05:08

Tgt Ion: 78 Resp: 14125

Ion Ratio Lower Upper

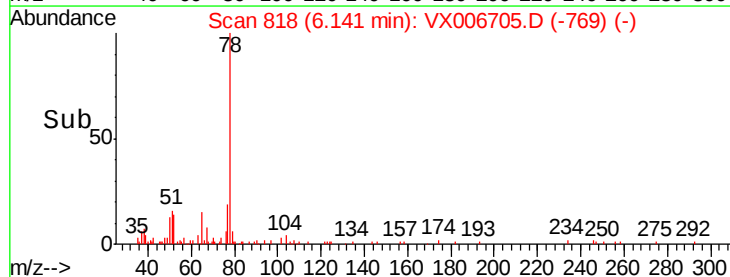
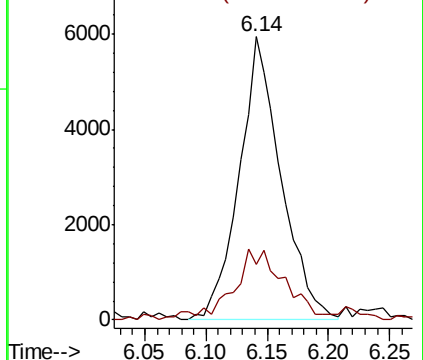
78 100

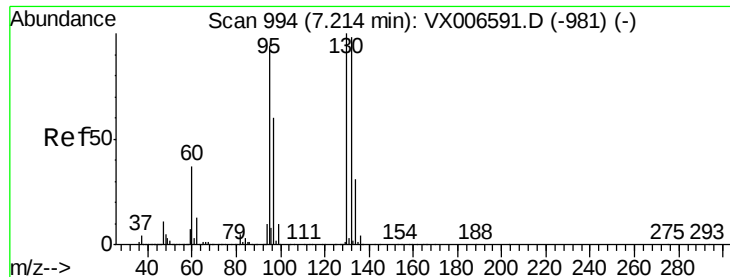
77 17.7 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.467 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

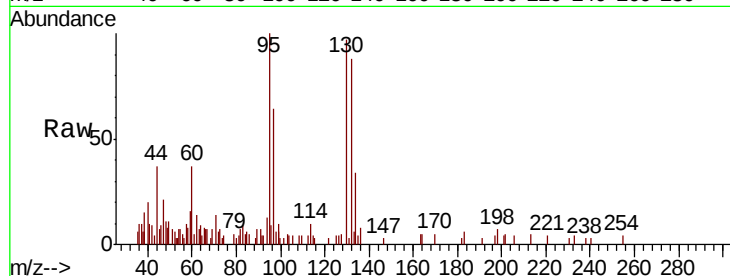
ClientSampled :

Tot Ion:130 Resp: 3762

Ion Ratio Lower Upper

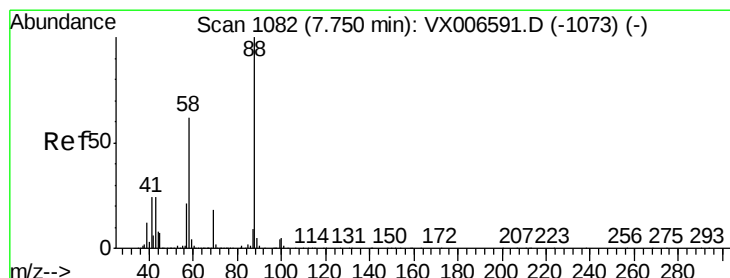
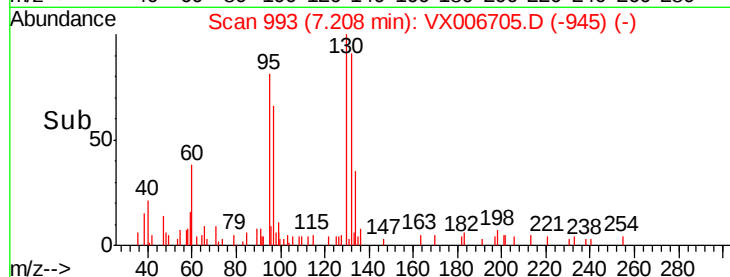
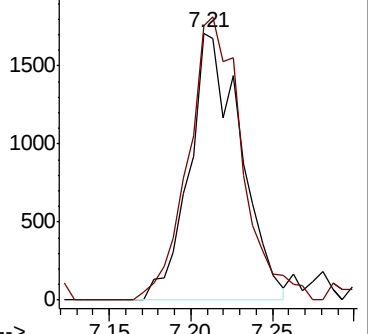
130 100

95 103.0 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

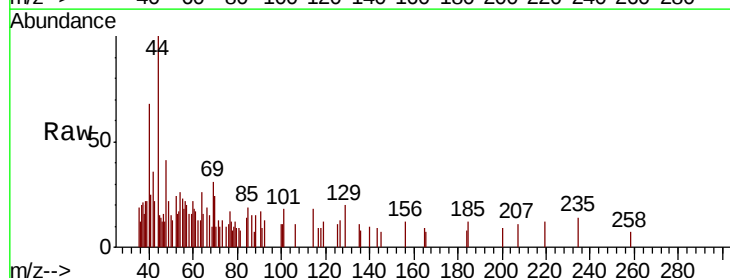
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 281.0 22.2 33.4#

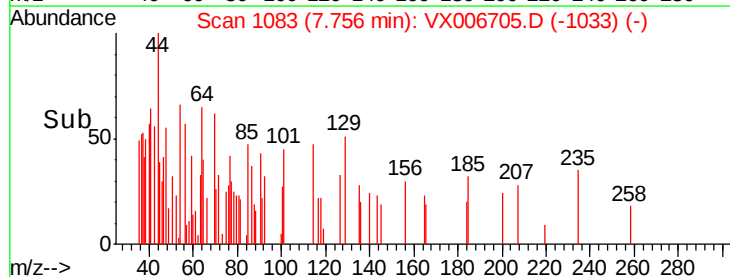
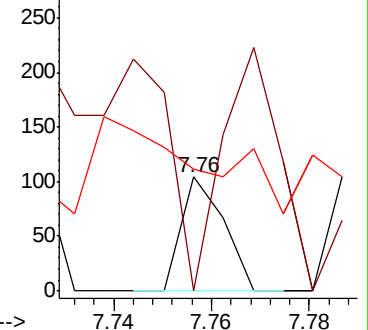
58 0.0 51.0 76.4#

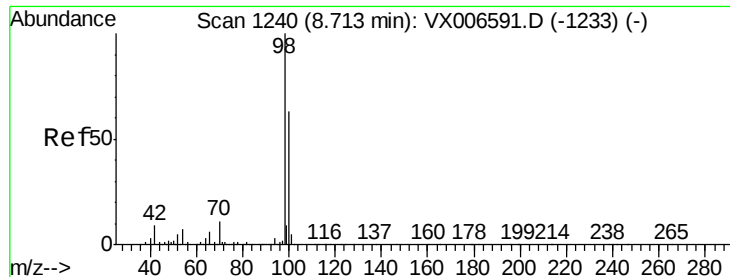


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.996 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

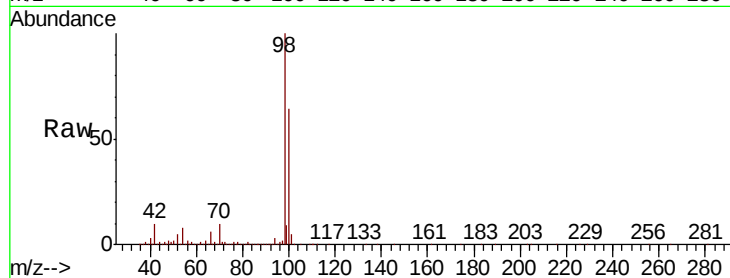
ClientSampleId :

Tot Ion: 98 Resp: 1235852

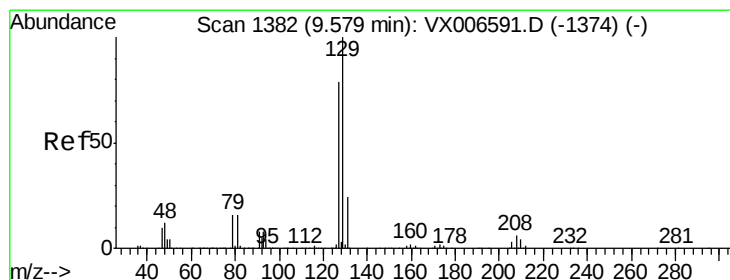
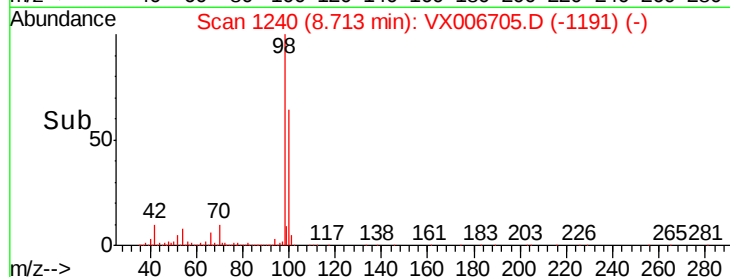
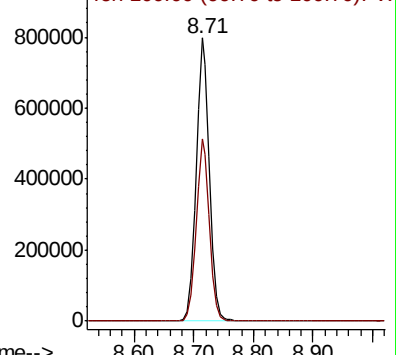
Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX006705.D (-1191) (-)



#60

Dibromochloromethane

Concen: 2.330 ug/l

RT: 9.68 min Scan# 1398

Delta R.T. 0.10 min

Lab File: VX006705.D

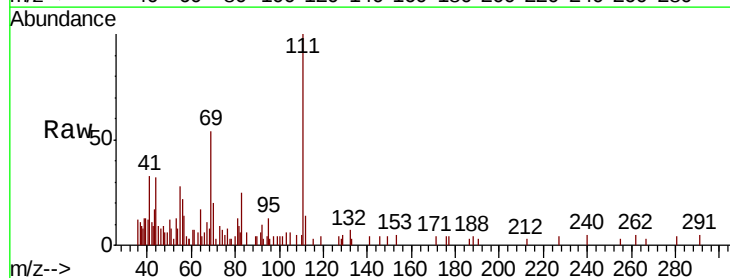
Acq: 21 Dec 2018 05:08

Tgt Ion: 129 Resp: 48

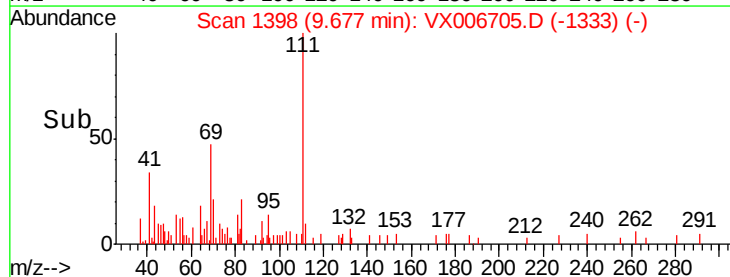
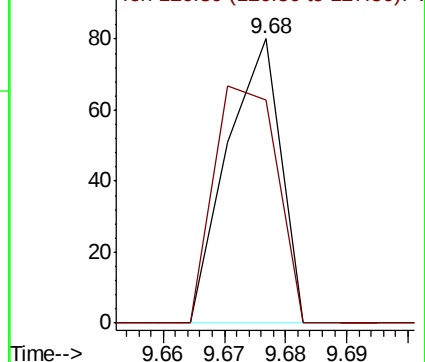
Ion Ratio Lower Upper

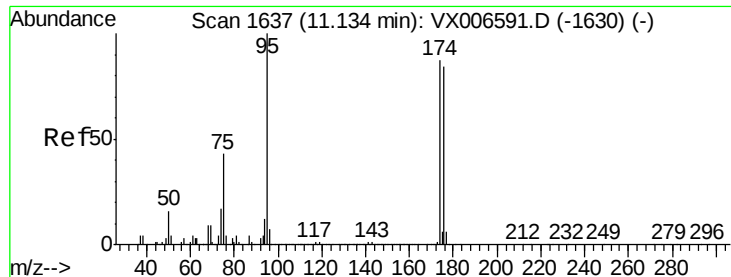
129 100

127 100.0 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): VX006705.D (-1333) (-)





#62

4-Bromofluorobenzene

Concen: 47.194 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

ClientSampleId :

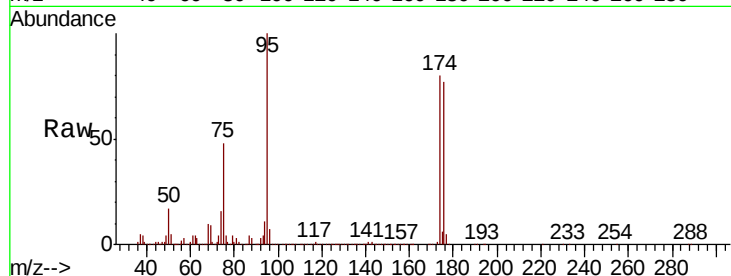
Tot Ion: 95 Resp: 435974

Ion Ratio Lower Upper

95 100

174 89.3 0.0 182.2

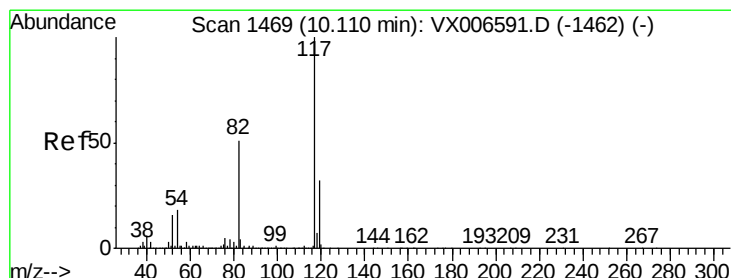
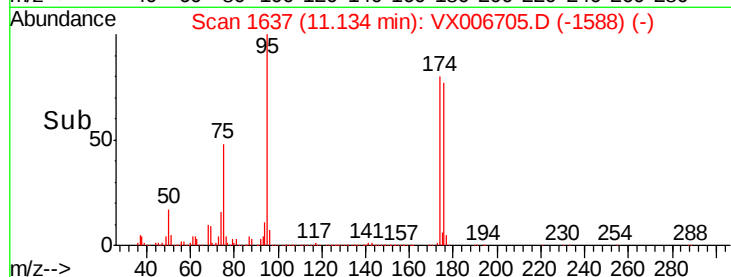
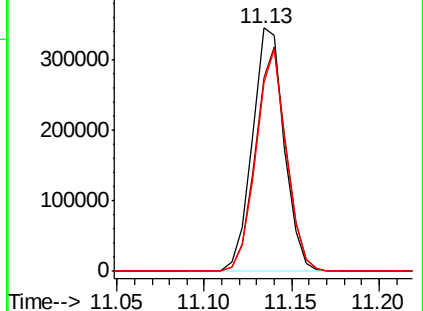
176 86.4 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006705.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006705.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006705.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

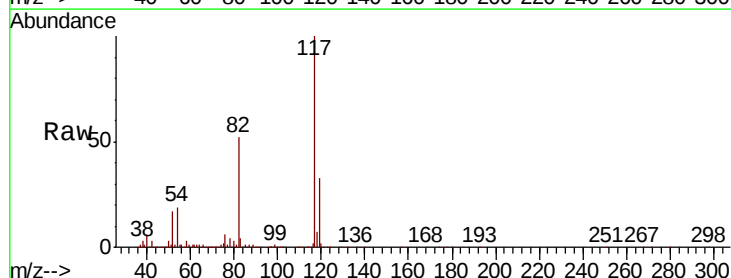
Tgt Ion: 117 Resp: 949716

Ion Ratio Lower Upper

117 100

82 52.3 41.0 61.6

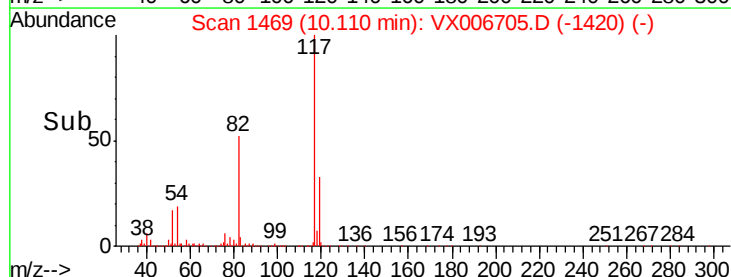
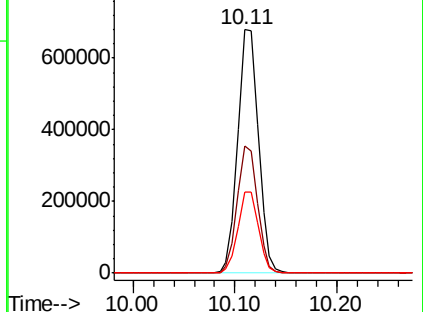
119 33.1 25.4 38.0

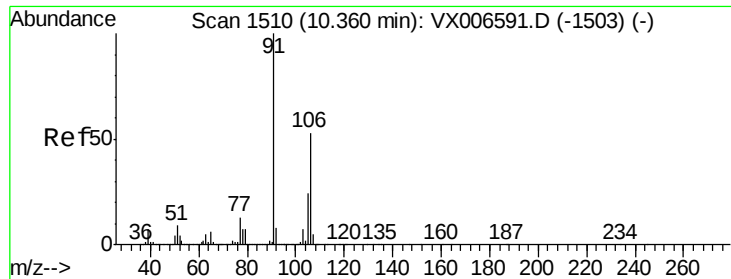


Abundance Ion 116.90 (116.60 to 117.60): VX006705.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006705.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006705.D (-1420) (-)

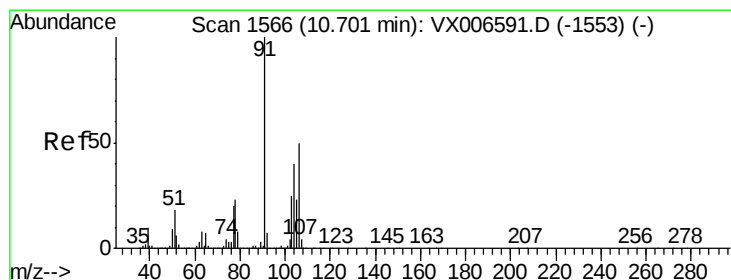
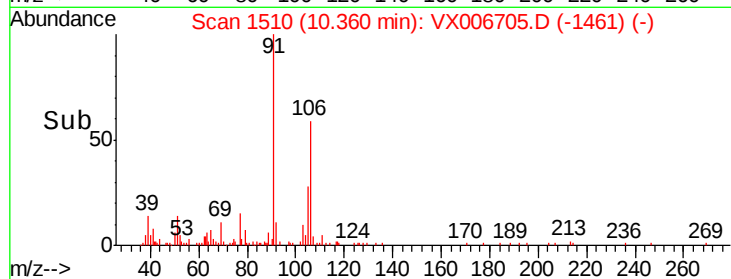
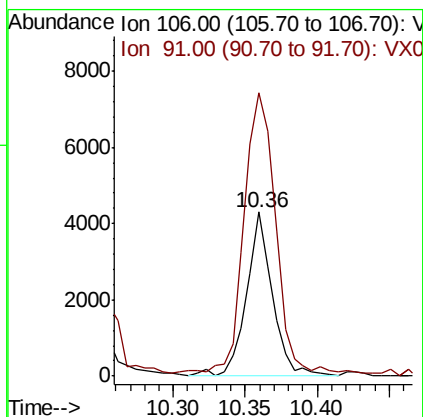
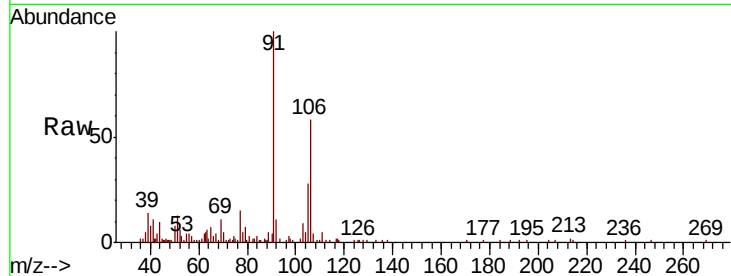




#68
m/p-Xylenes
Concen: 0.414 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX006705.D
Acq: 21 Dec 2018 05:08

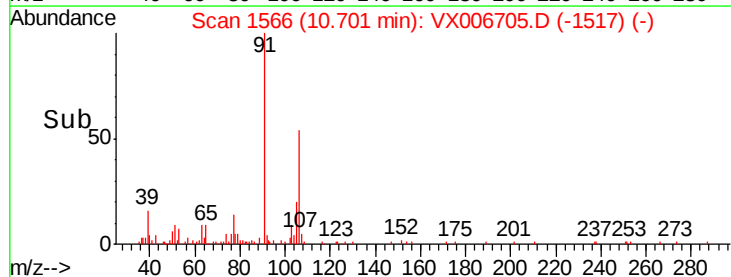
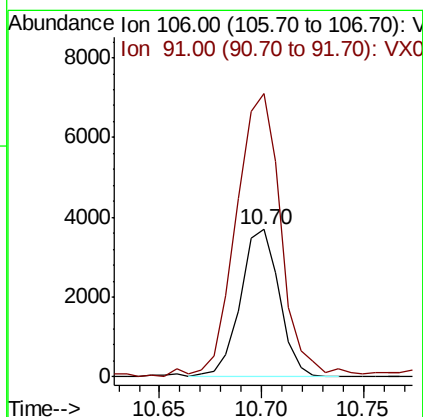
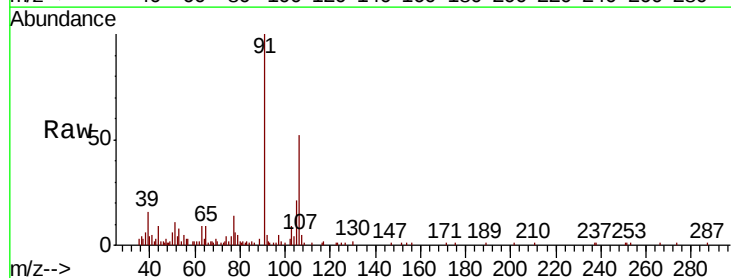
Instrument :
MSVOA_X
ClientSampled :

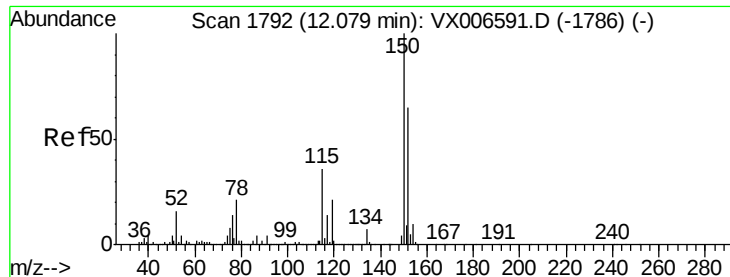
Tot Ion:106 Resp: 5368
Ion Ratio Lower Upper
106 100
91 206.4 155.8 233.6



#69
o-Xylene
Concen: 0.384 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX006705.D
Acq: 21 Dec 2018 05:08

Tgt Ion:106 Resp: 4910
Ion Ratio Lower Upper
106 100
91 223.6 101.3 303.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

ClientSampleId :

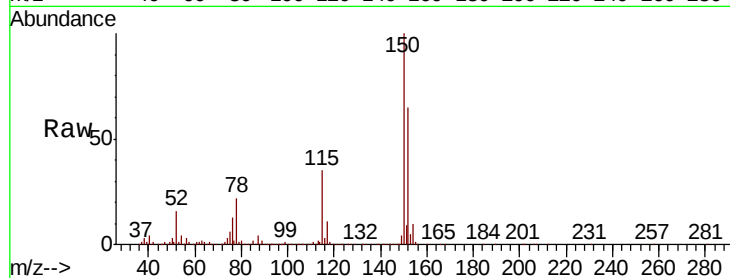
Tot Ion:152 Resp: 460333

Ion Ratio Lower Upper

152 100

115 55.5 39.1 117.2

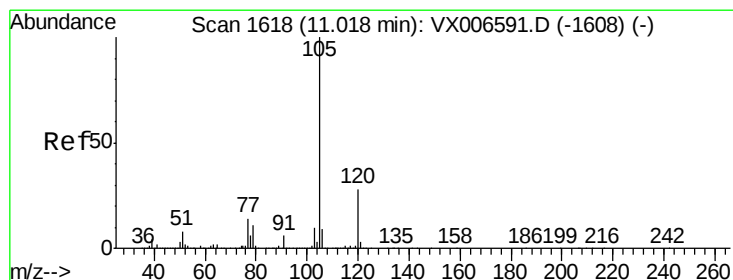
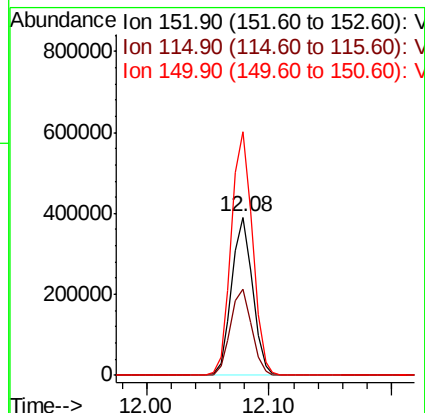
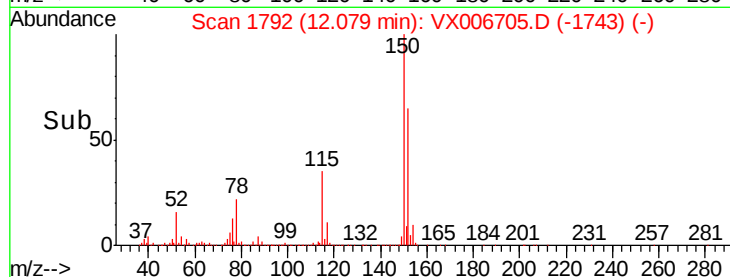
150 156.5 0.0 344.8



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



#73

Isopropylbenzene

Concen: 0.226 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX006705.D

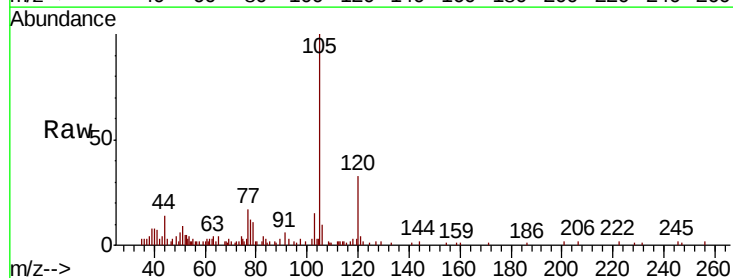
Acq: 21 Dec 2018 05:08

Tgt Ion:105 Resp: 7103

Ion Ratio Lower Upper

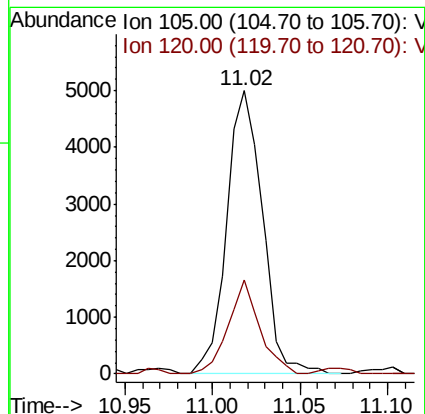
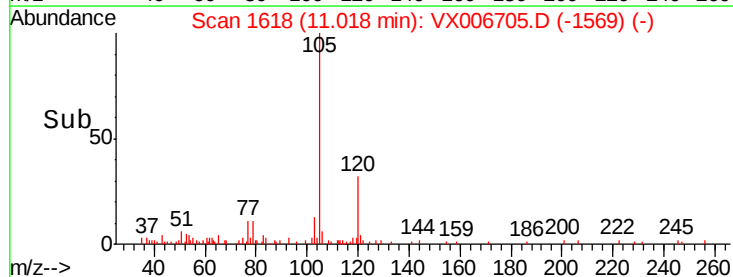
105 100

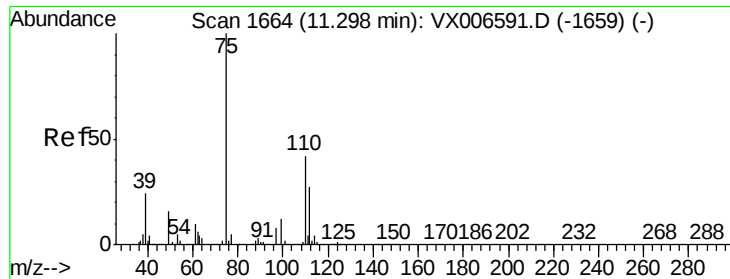
120 29.3 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

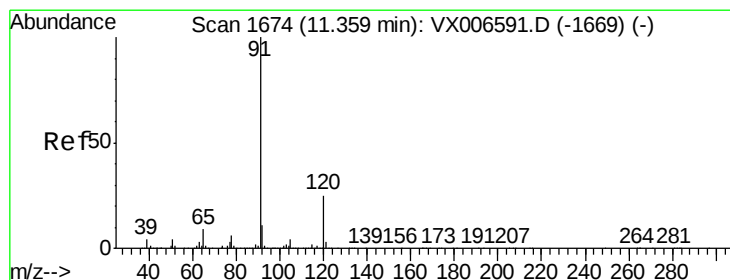
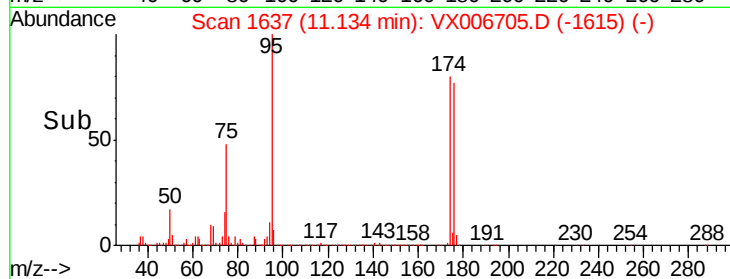
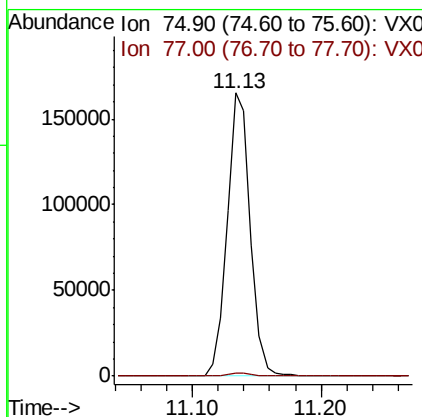
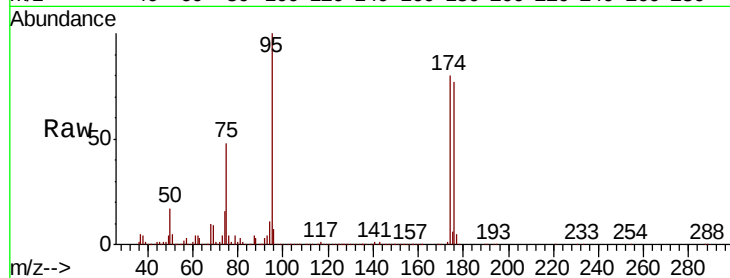




#76
 1,2,3-Trichloropropane
 Concen: 24.279 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006705.D
 Acq: 21 Dec 2018 05:08

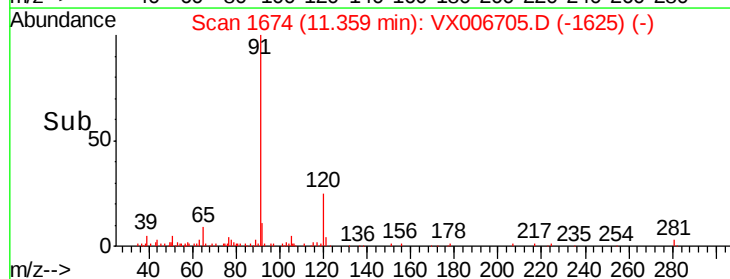
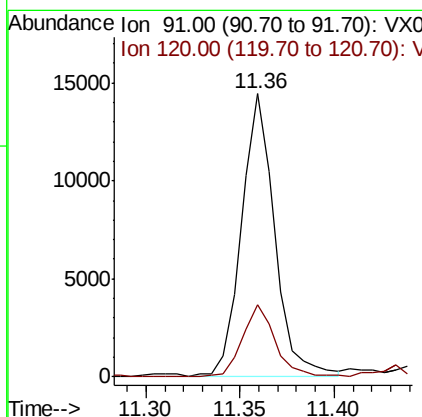
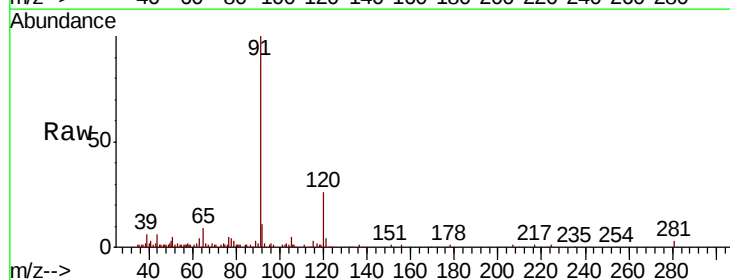
Instrument :
 MSVOA_X
 ClientSampleId :

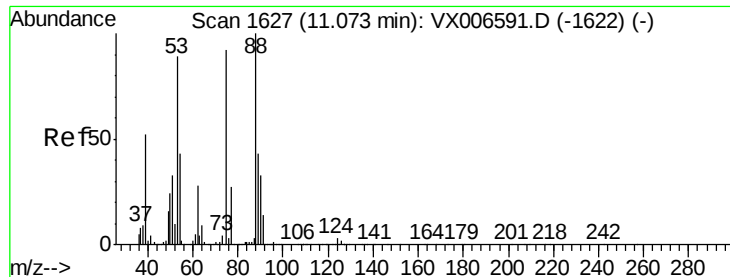
Tot Ion: 75 Resp: 207706
 Ion Ratio Lower Upper
 75 100
 77 1.5 18.5 55.5#



#78
 n-propylbenzene
 Concen: 0.503 ug/l
 RT: 11.36 min Scan# 1674
 Delta R.T. -0.00 min
 Lab File: VX006705.D
 Acq: 21 Dec 2018 05:08

Tgt Ion: 91 Resp: 17450
 Ion Ratio Lower Upper
 91 100
 120 25.8 12.7 38.0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.866 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006705.D

Acq: 21 Dec 2018 05:08

Instrument :

MSVOA_X

ClientSampled :

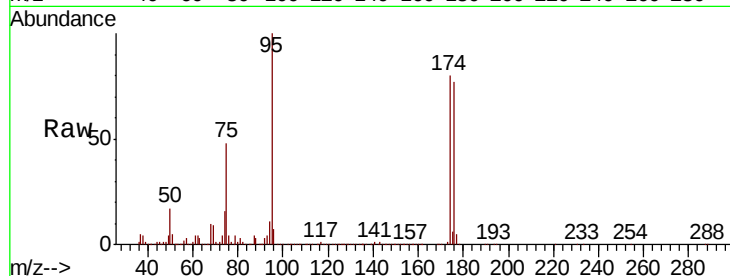
Tot Ion: 75 Resp: 207706

Ion Ratio Lower Upper

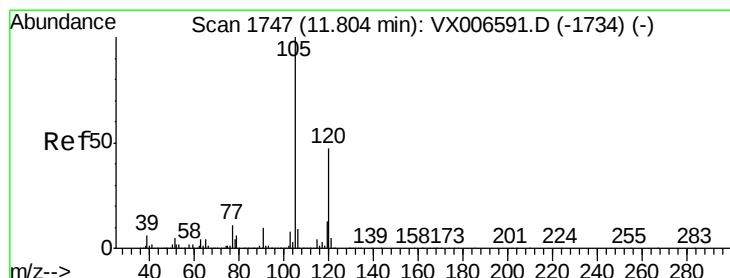
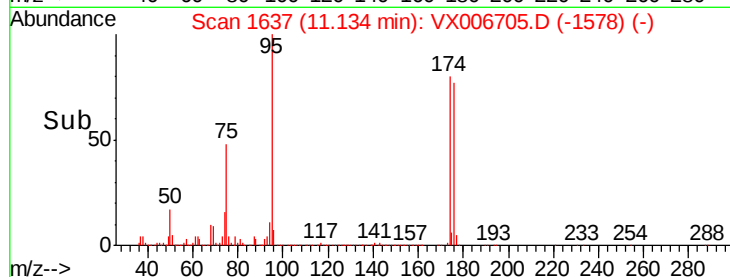
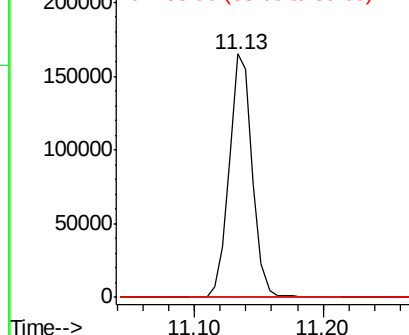
75 100

53 0.1 79.7 119.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.221 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX006705.D

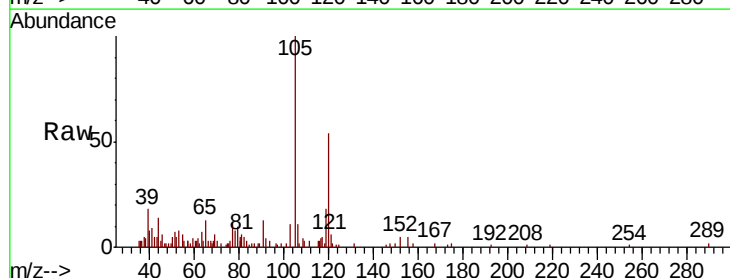
Acq: 21 Dec 2018 05:08

Tgt Ion:105 Resp: 6038

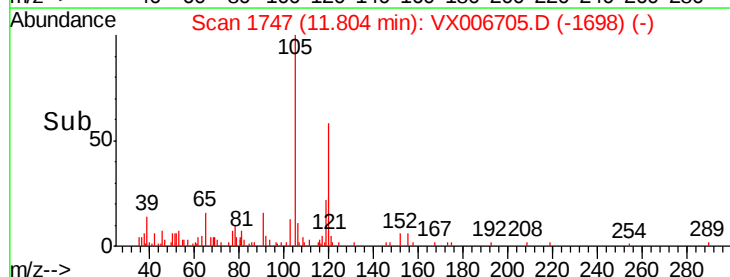
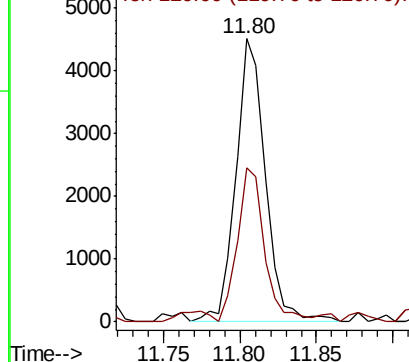
Ion Ratio Lower Upper

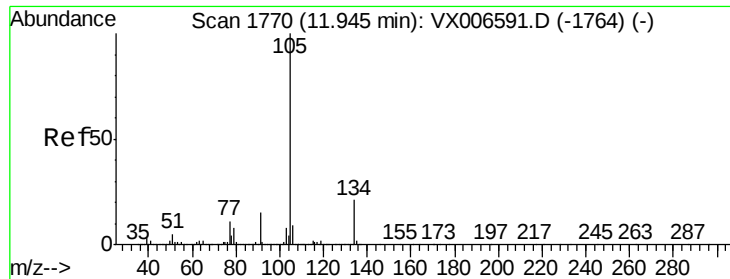
105 100

120 50.1 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

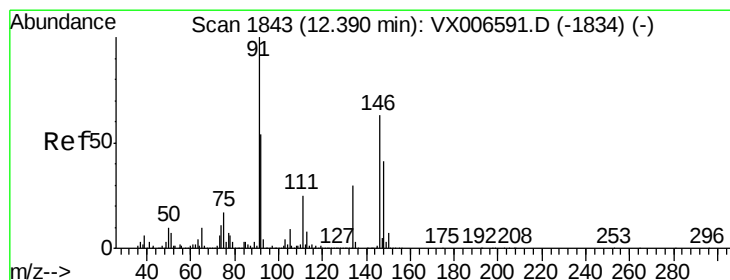
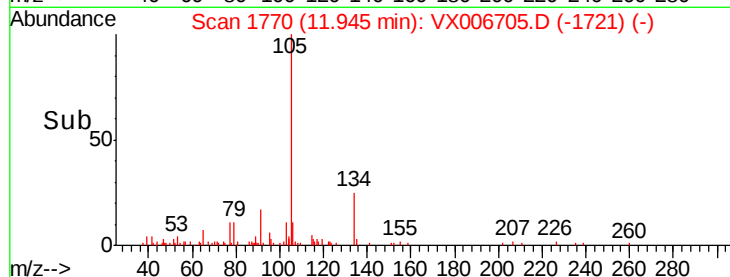
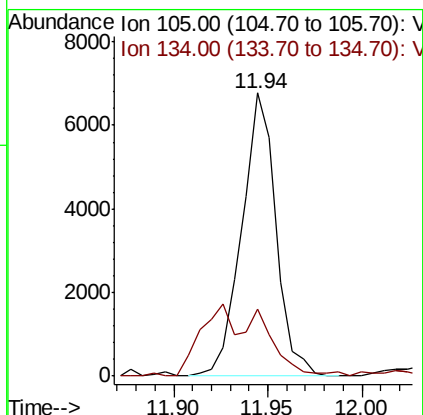
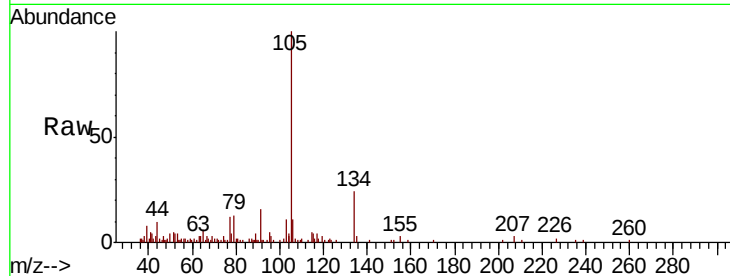




#85
 sec-Butylbenzene
 Concen: 0.268 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.00 min
 Lab File: VX006705.D
 Acq: 21 Dec 2018 05:08

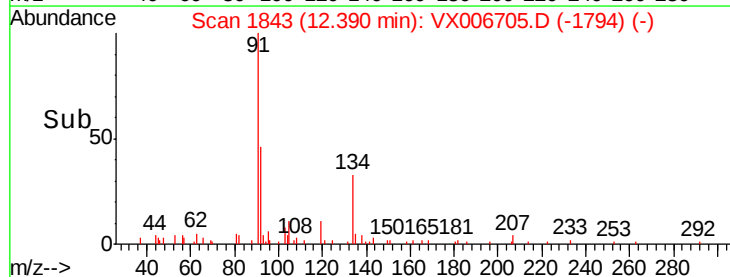
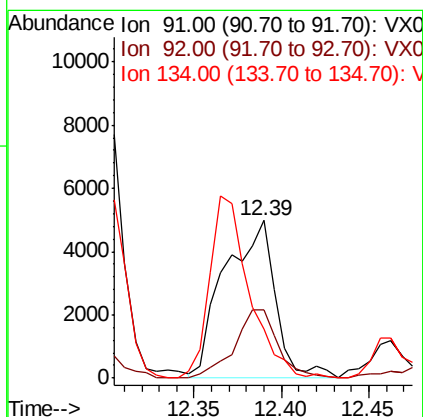
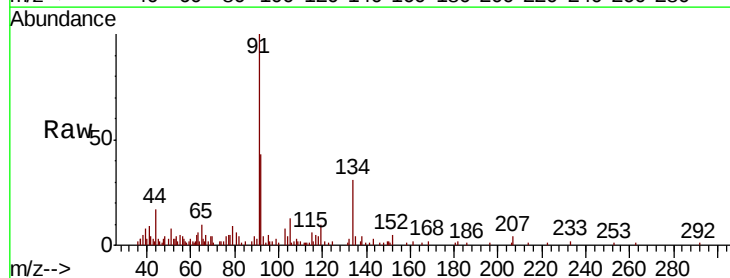
Instrument :
 MSVOA_X
 ClientSampleId :

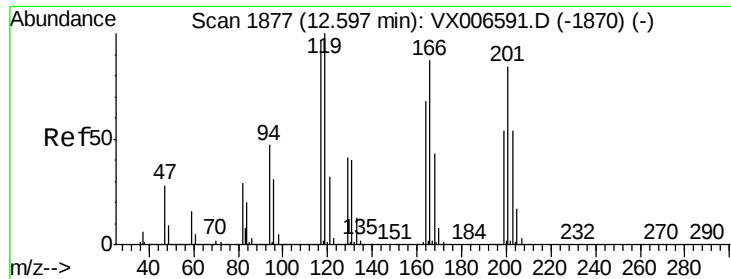
Tot Ion: 105 Resp: 8539
 Ion Ratio Lower Upper
 105 100
 134 29.2 10.7 31.9



#89
 n-Butylbenzene
 Concen: 0.425 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX006705.D
 Acq: 21 Dec 2018 05:08

Tgt Ion: 91 Resp: 10114
 Ion Ratio Lower Upper
 91 100
 92 36.6 26.8 80.4
 134 0.0 14.4 43.2#

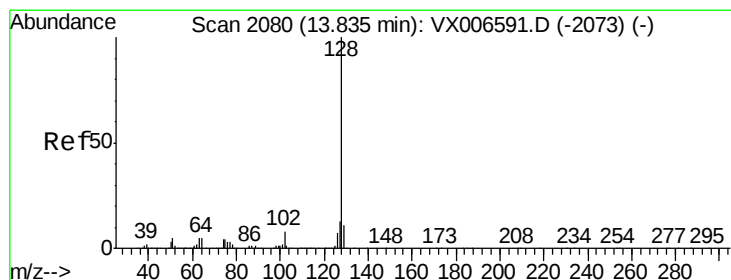
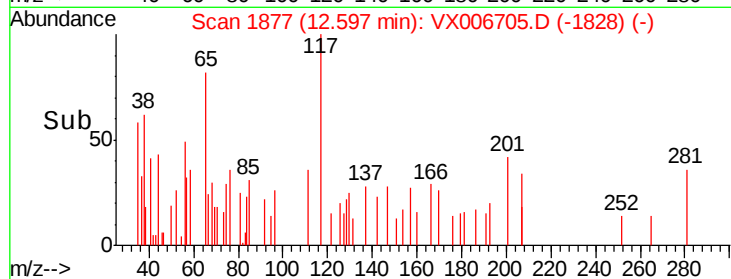
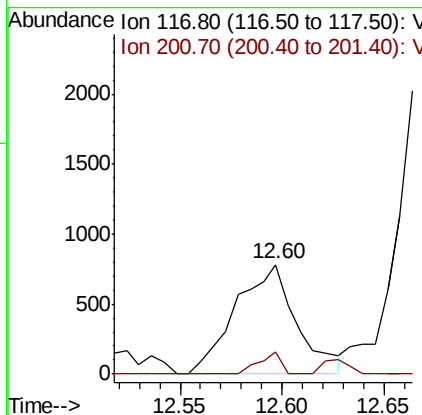
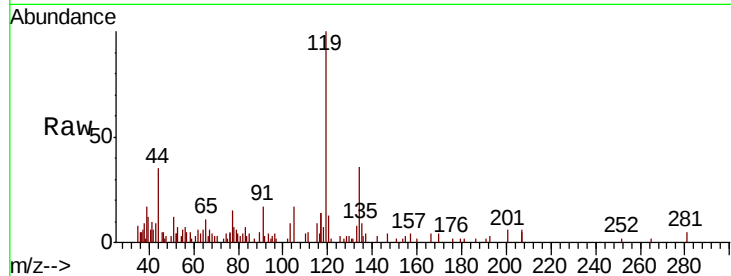




#90
Hexachloroethane
Concen: 3.642 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX006705.D
Acq: 21 Dec 2018 05:08

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 1633
Ion Ratio Lower Upper
117 100
201 7.4 42.9 128.7#



#95
Naphthalene
Concen: 8.978 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX006705.D
Acq: 21 Dec 2018 05:08

Tgt Ion:128 Resp: 303410
Ion Ratio Lower Upper
128 100
127 13.2 10.1 15.1
129 12.0 8.6 13.0

