

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006599.D
 Acq On : 18 Dec 2018 15:51
 Operator : JC/MD
 Sample : J6438-16 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 23701

Quant Time: Dec 19 05:59:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	726077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1120598	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	1040990	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	505249	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	380006	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
35) Dibromofluoromethane	5.51	113	333306	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
50) Toluene-d8	8.71	98	1323988	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
62) 4-Bromofluorobenzene	11.13	95	491969	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	

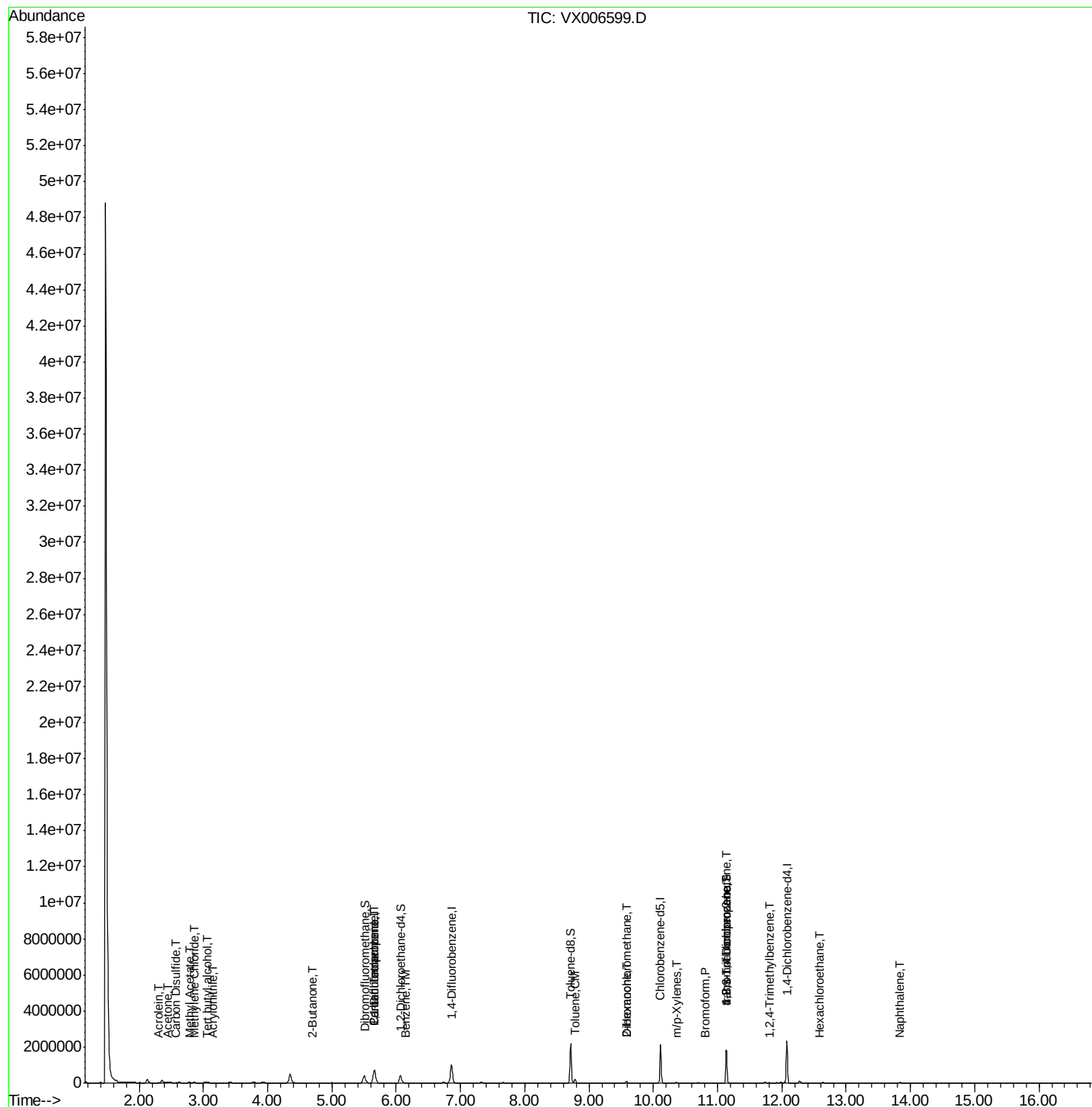
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	3404	Below Cal	#	76
11) Tert butyl alcohol	3.07	59	10261	5.876	ug/l	99
13) Acrolein	2.31	56	1752	1.487	ug/l #	70
15) Acrylonitrile	3.15	53	1598	0.412	ug/l #	17
16) Acetone	2.45	43	29507	8.207	ug/l	97
17) Carbon Disulfide	2.57	76	3563	0.208	ug/l #	85
18) Methyl Acetate	2.78	43	21281	2.013	ug/l	96
20) Methylene Chloride	2.85	84	5153	0.693	ug/l	89
25) 2-Butanone	4.70	43	6958	1.376	ug/l #	75
28) Bromochloromethane	5.01	49	346	Below Cal	#	3
36) 1,1-Dichloropropene	5.66	75	46831	5.046	ug/l #	48
38) Carbon Tetrachloride	5.66	117	65941	7.311	ug/l #	15
40) Benzene	6.15	78	16669	0.591	ug/l	98
49) 1,4-Dioxane	7.76	88	1452	Below Cal	#	27
52) Toluene	8.79	92	73504	4.033	ug/l	99
59) 2-Hexanone	9.58	43	9852	1.377	ug/l	64
60) Dibromochloromethane	9.59	129	70	2.333	ug/l	97
68) m/p-Xylenes	10.35	106	7723	0.544	ug/l	90
71) Bromoform	10.80	173	112	4.476	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	230566	26.037	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	230566	72.636	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.81	105	7341	0.245	ug/l	75
90) Hexachloroethane	12.58	117	128	3.318	ug/l #	24
95) Naphthalene	13.83	128	9816	0.265	ug/l #	85

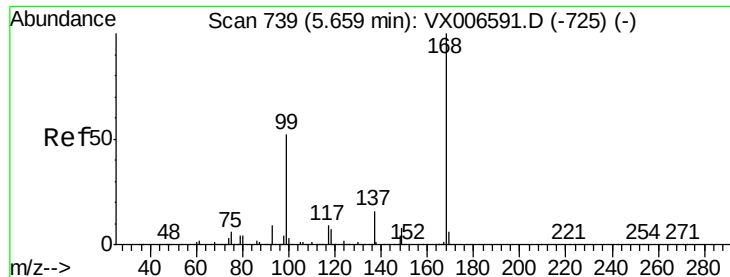
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 19 05:59:58 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:23:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampleId :

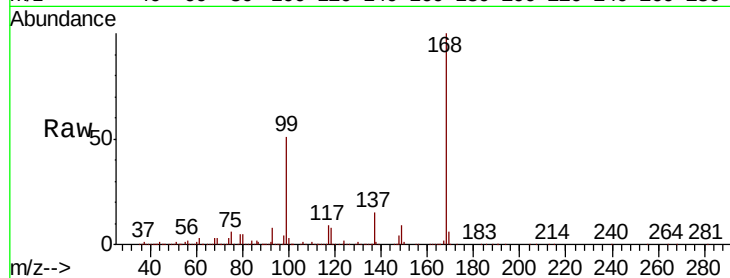
23701

Tot Ion:168 Resp: 726077

Ion Ratio Lower Upper

168 100

99 50.7 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

250000

200000

150000

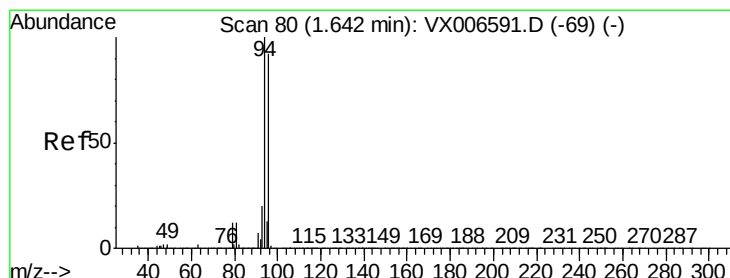
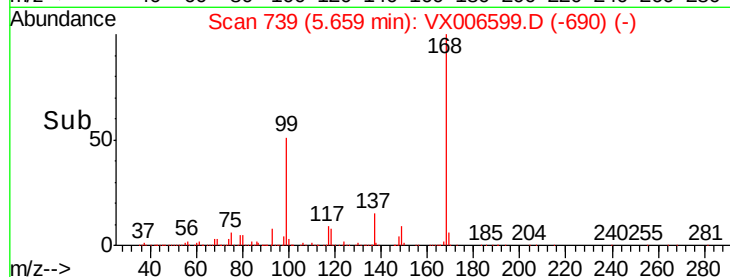
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006599.D

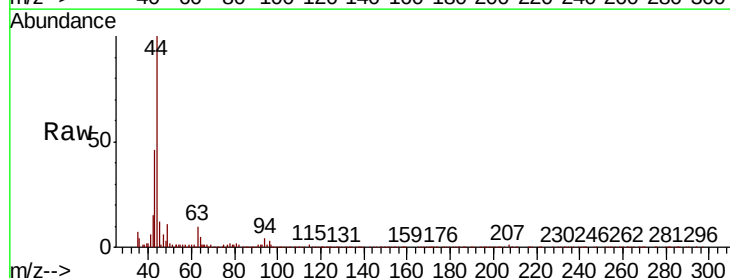
Acq: 18 Dec 2018 15:51

Tgt Ion: 94 Resp: 3404

Ion Ratio Lower Upper

94 100

96 70.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

2000

1500

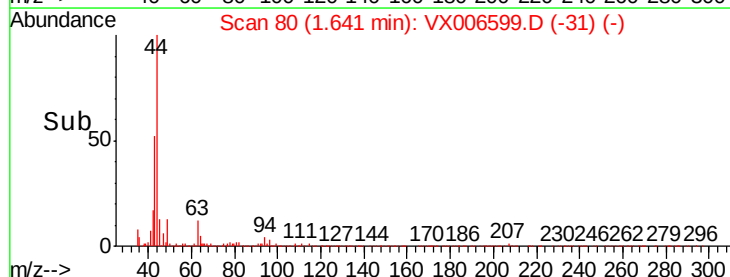
1000

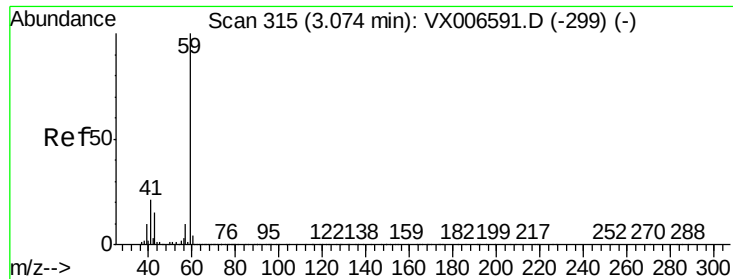
500

0

Time-->

1.60 1.65 1.70



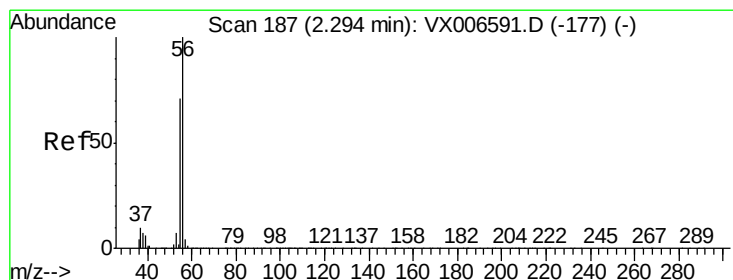
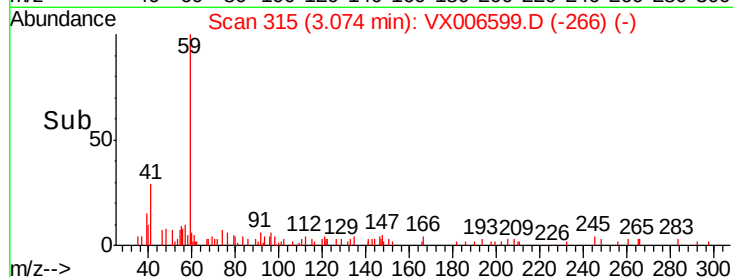
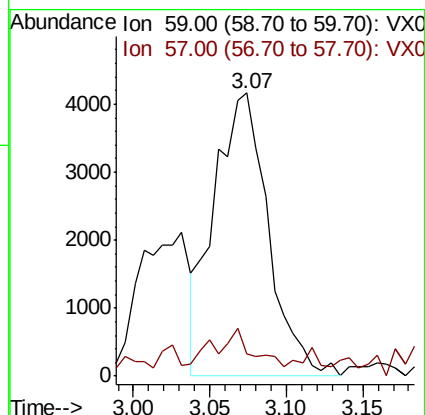
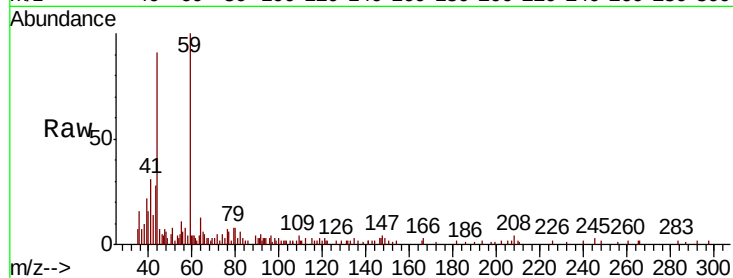


#11

Tert butyl alcohol
Concen: 5.876 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.00 min
Lab File: VX006599.D
Acq: 18 Dec 2018 15:51

Instrument :
MSVOA_X
ClientSampleId :
23701

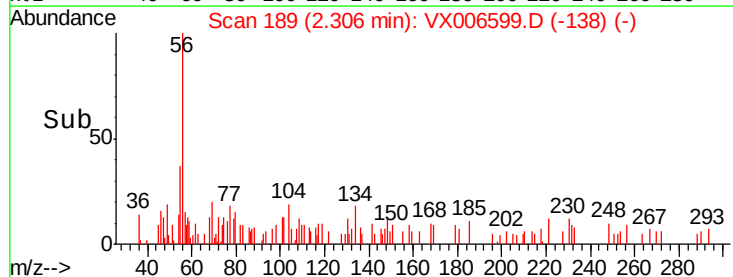
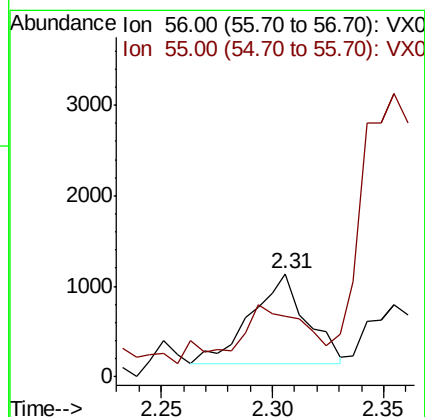
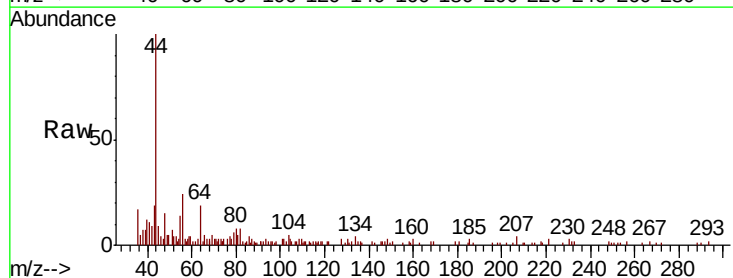
Tot Ion: 59 Resp: 10261
Ion Ratio Lower Upper
59 100
57 10.6 8.2 12.2

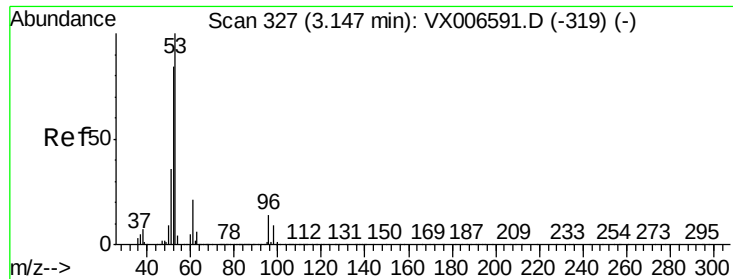


#13

Acrolein
Concen: 1.487 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX006599.D
Acq: 18 Dec 2018 15:51

Tgt Ion: 56 Resp: 1752
Ion Ratio Lower Upper
56 100
55 47.0 57.8 86.6#





#15

Acrylonitrile

Concen: 0.412 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampled :

23701

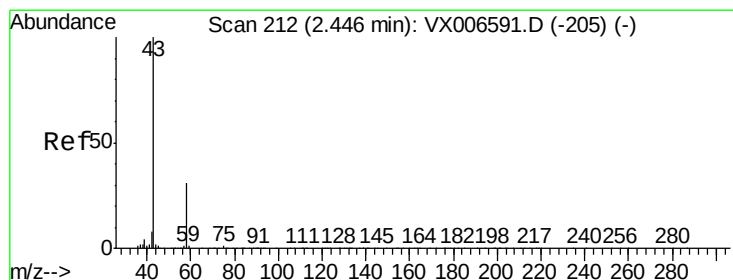
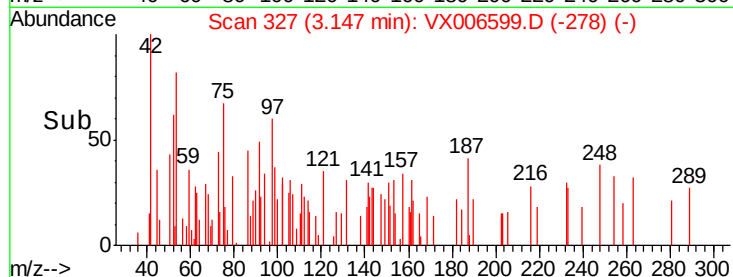
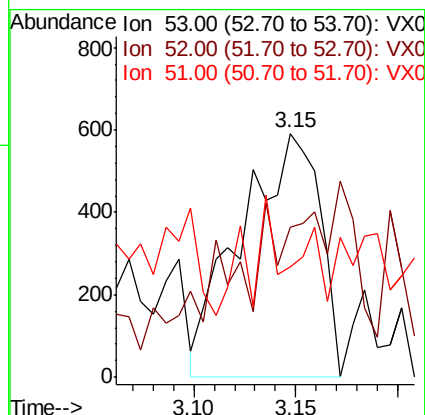
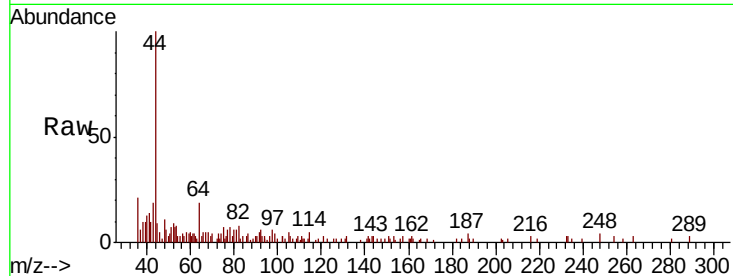
Tot Ion: 53 Resp: 1598

Ion Ratio Lower Upper

53 100

52 0.0 66.2 99.4#

51 0.0 28.7 43.1#



#16

Acetone

Concen: 8.207 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006599.D

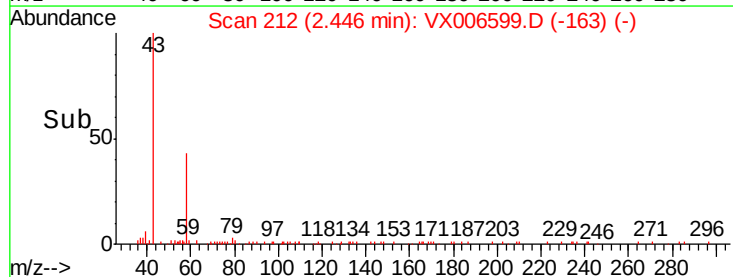
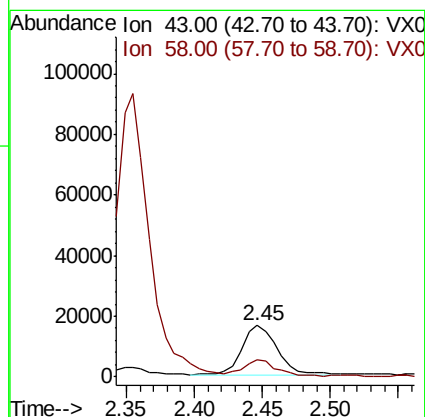
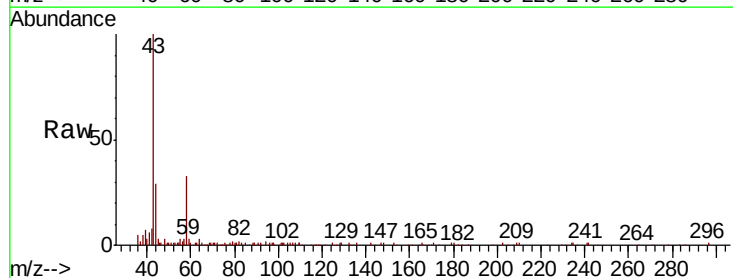
Acq: 18 Dec 2018 15:51

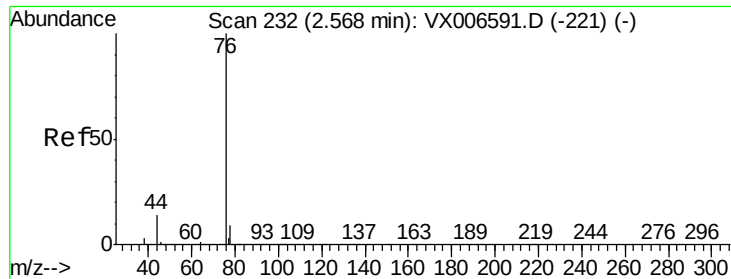
Tgt Ion: 43 Resp: 29507

Ion Ratio Lower Upper

43 100

58 31.4 24.0 36.0





#17

Carbon Disulfide

Concen: 0.208 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampleId :

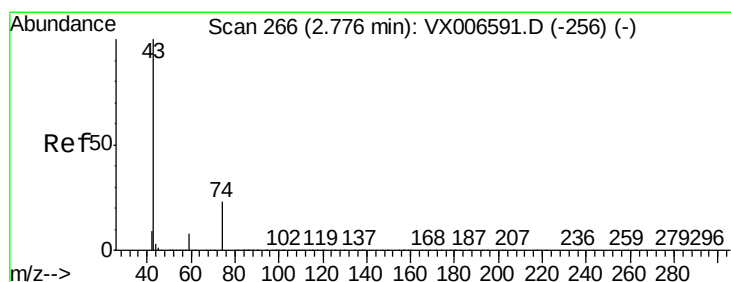
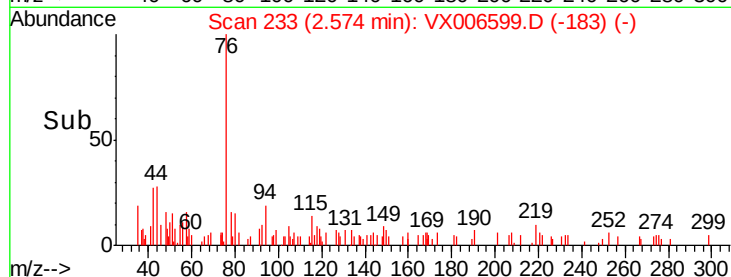
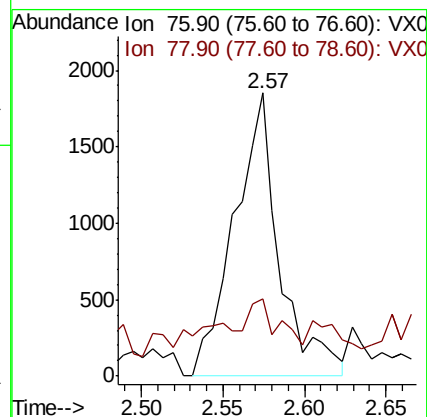
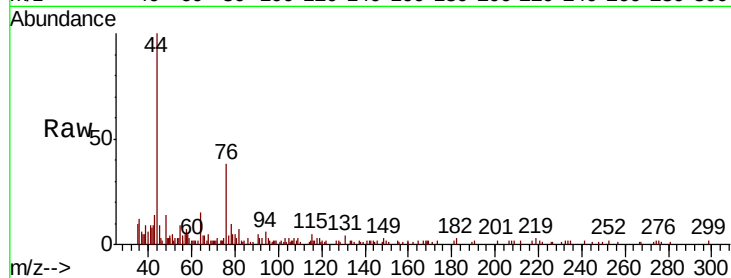
23701

Tot Ion: 76 Resp: 3563

Ion Ratio Lower Upper

76 100

78 14.5 7.1 10.7#



#18

Methyl Acetate

Concen: 2.013 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX006599.D

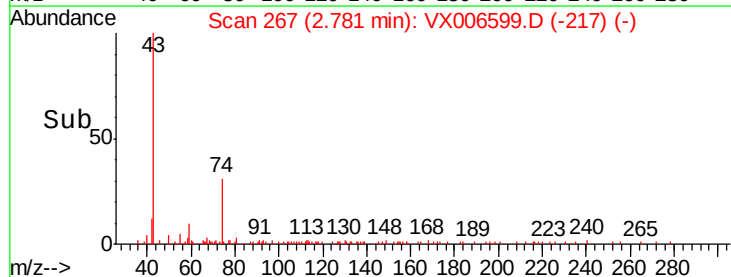
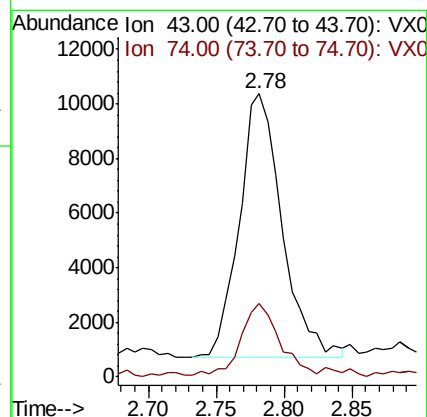
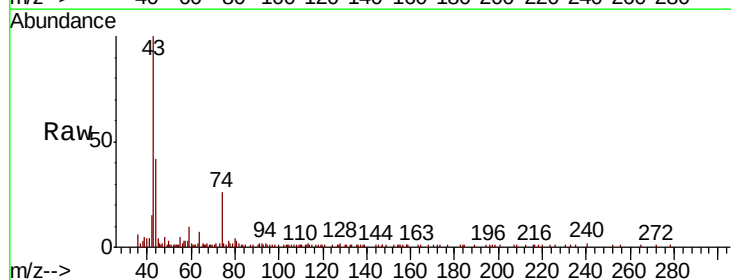
Acq: 18 Dec 2018 15:51

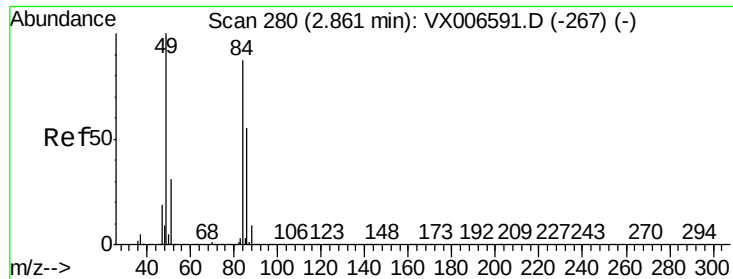
Tgt Ion: 43 Resp: 21281

Ion Ratio Lower Upper

43 100

74 24.3 17.9 26.9

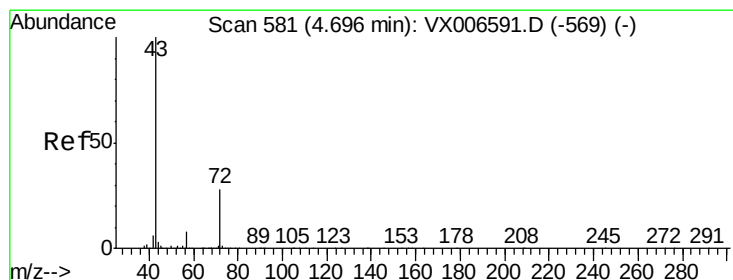
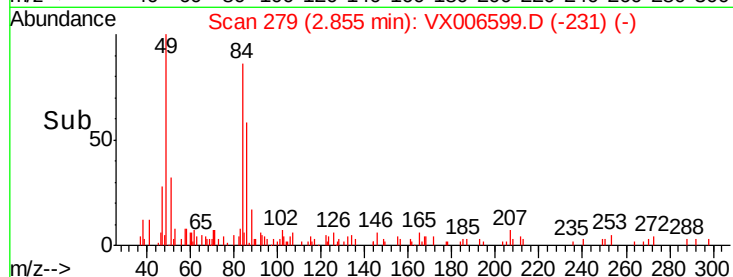
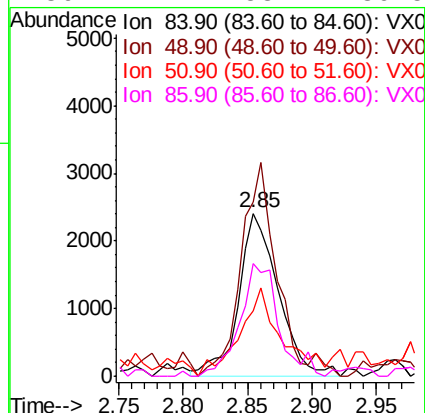
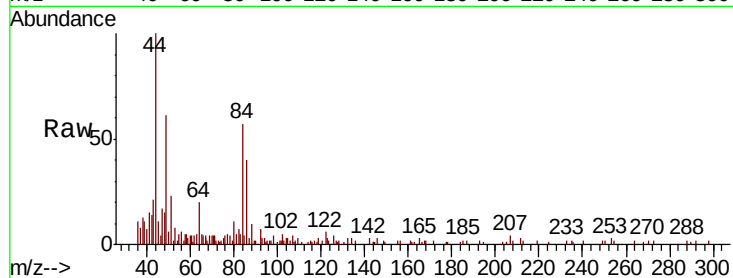




#20
Methylene Chloride
Concen: 0.693 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX006599.D
Acq: 18 Dec 2018 15:51

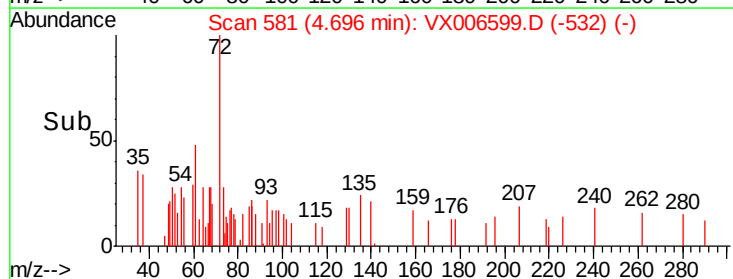
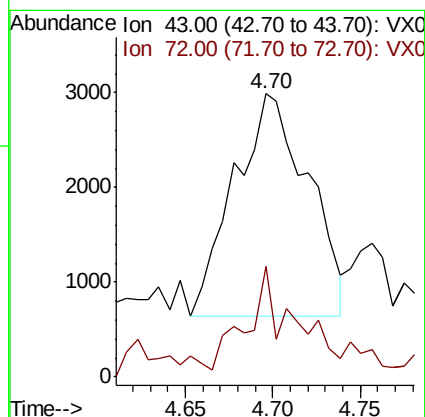
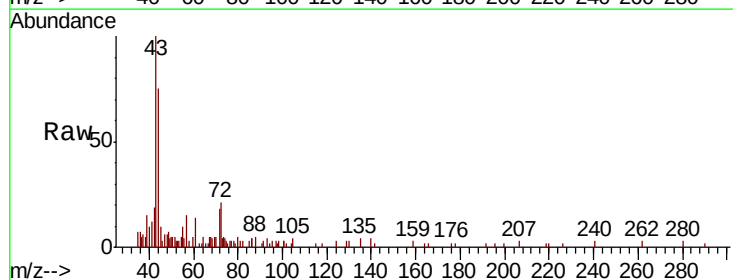
Instrument :
MSVOA_X
ClientSampleId :
23701

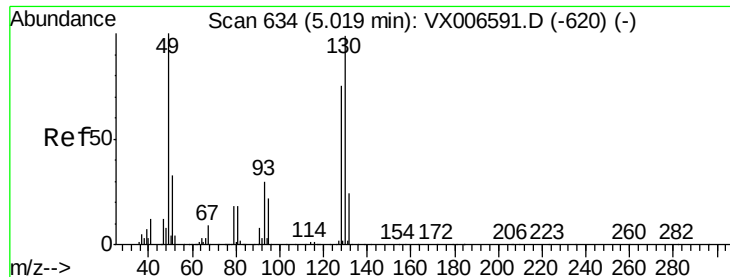
Tot Ion:	84	Resp:	5153
Ion	Ratio	Lower	Upper
84	100		
49	110.0	102.2	153.4
51	35.7	31.1	46.7
86	71.2	53.7	80.5



#25
2-Butanone
Concen: 1.376 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.00 min
Lab File: VX006599.D
Acq: 18 Dec 2018 15:51

Tgt Ion:	43	Resp:	6958
Ion	Ratio	Lower	Upper
43	100		
72	41.3	22.6	33.8#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampled :

23701

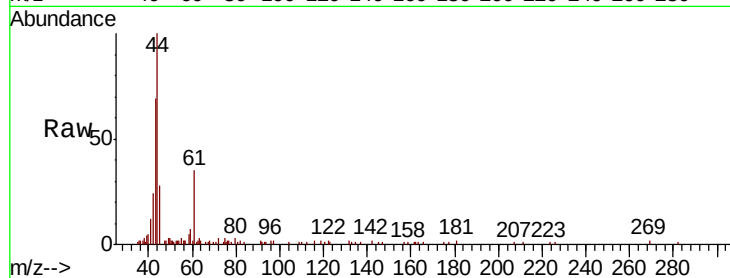
Tot Ion: 49 Resp: 346

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

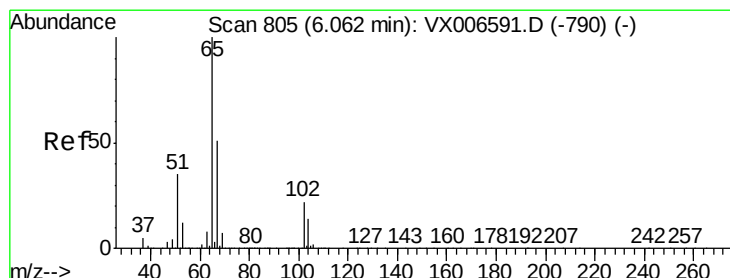
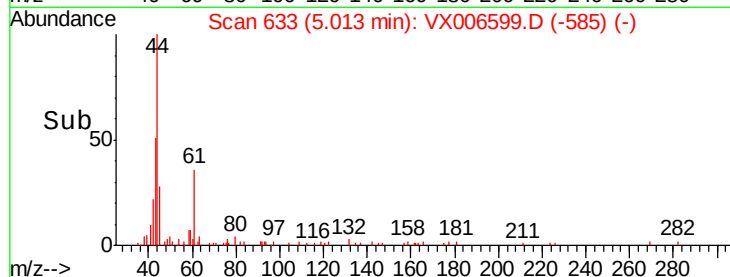
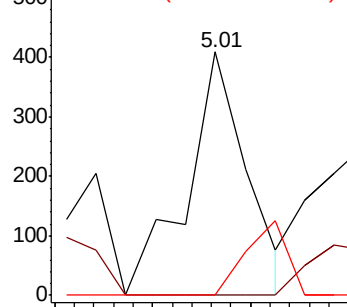
130 0.0 78.3 117.5#



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: 48.561 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX006599.D

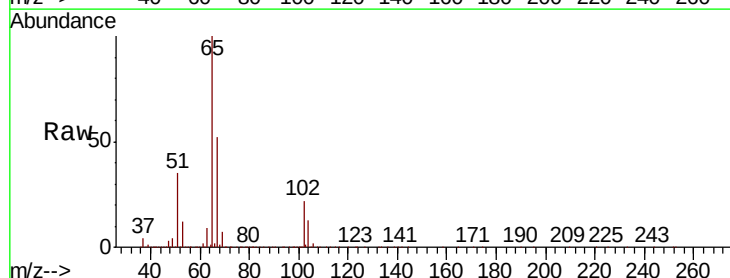
Acq: 18 Dec 2018 15:51

Tgt Ion: 65 Resp: 380006

Ion Ratio Lower Upper

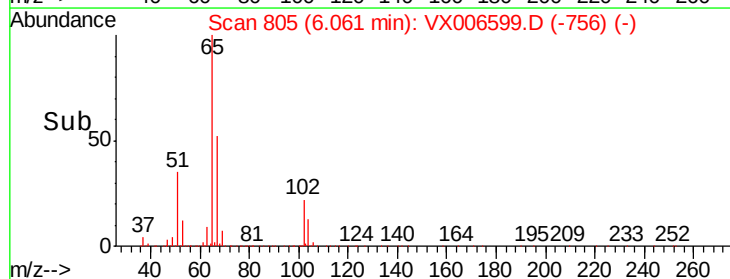
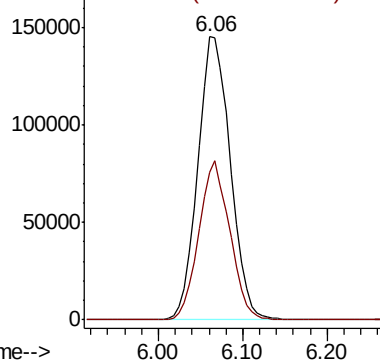
65 100

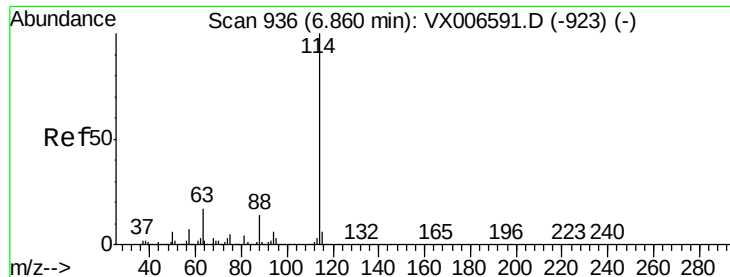
67 53.9 0.0 107.2



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: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampleId :

23701

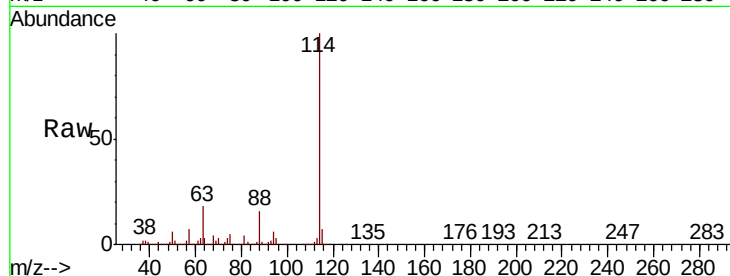
Tot Ion:114 Resp: 1120598

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.6

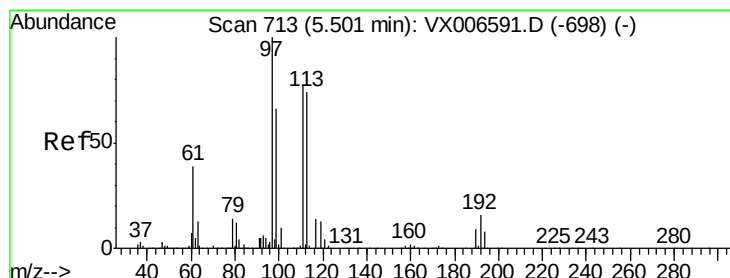
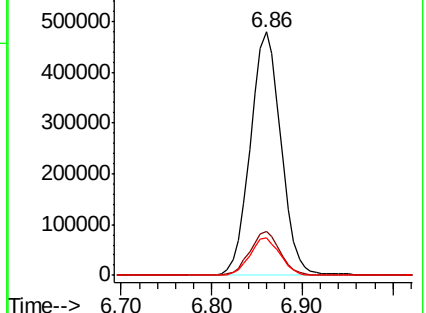
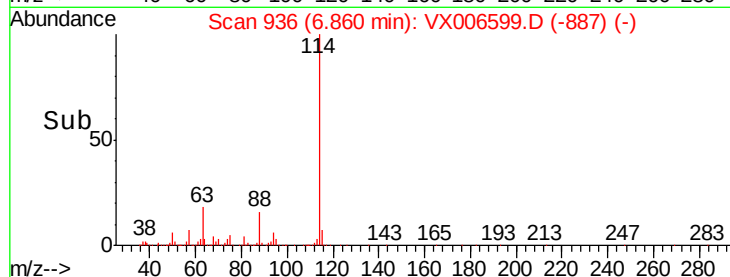
88 15.6 0.0 29.0



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: 47.034 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

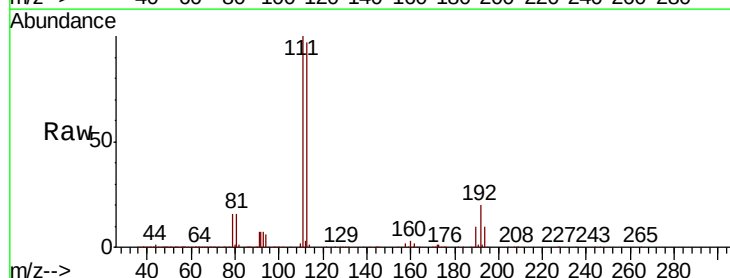
Tgt Ion:113 Resp: 333306

Ion Ratio Lower Upper

113 100

111 103.3 81.1 121.7

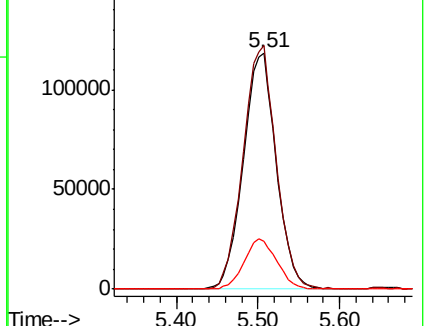
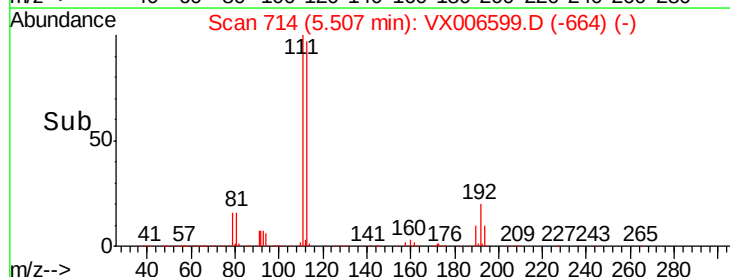
192 21.1 18.2 27.2

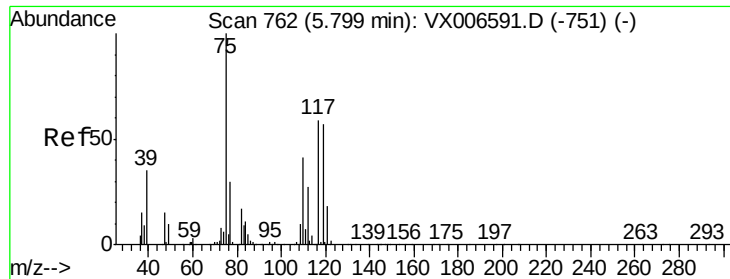


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

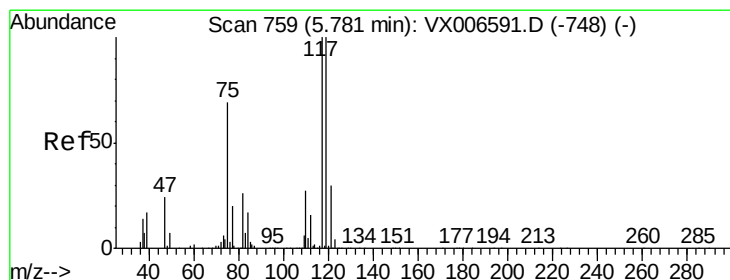
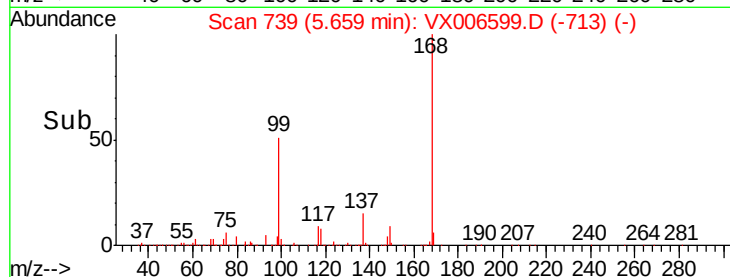
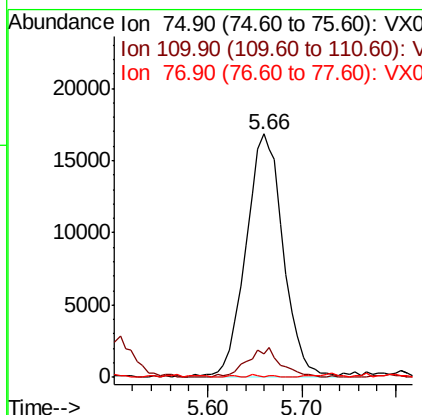
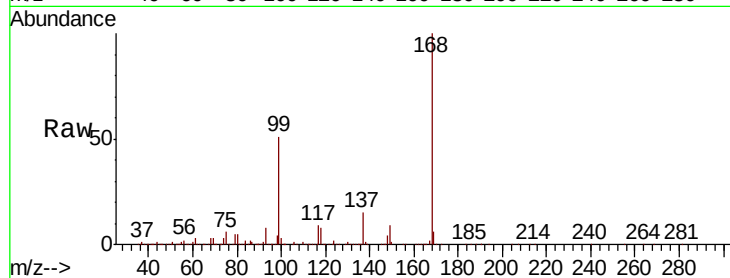




#36
 1,1-Dichloropropene
 Concen: 5.046 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006599.D
 Acq: 18 Dec 2018 15:51

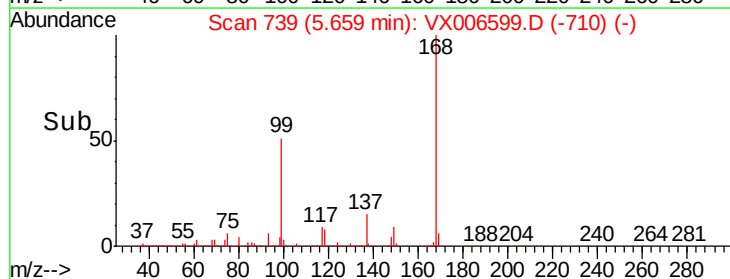
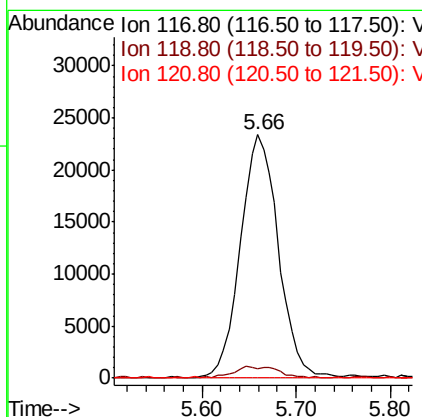
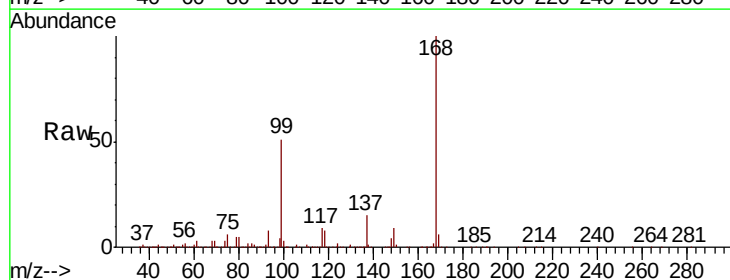
Instrument :
 MSVOA_X
 ClientSampleId :
 23701

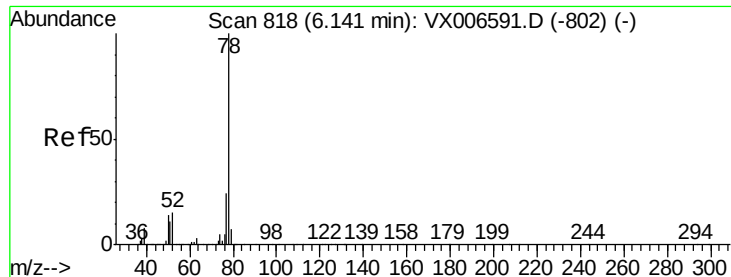
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.8	20.4	61.3#
77	0.3	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 7.311 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX006599.D
 Acq: 18 Dec 2018 15:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	75.8	113.8#
121	0.0	24.6	37.0#





#40

Benzene

Concen: 0.591 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampleId :

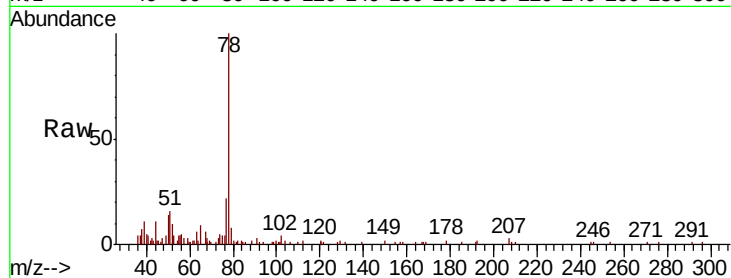
23701

Tot Ion: 78 Resp: 16669

Ion Ratio Lower Upper

78 100

77 22.9 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

6000

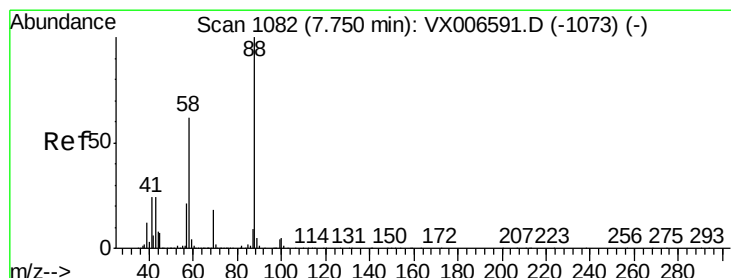
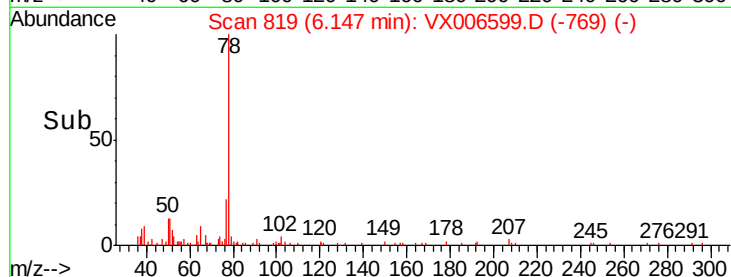
4000

2000

0

Time-->

6.05 6.10 6.15 6.20 6.25



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

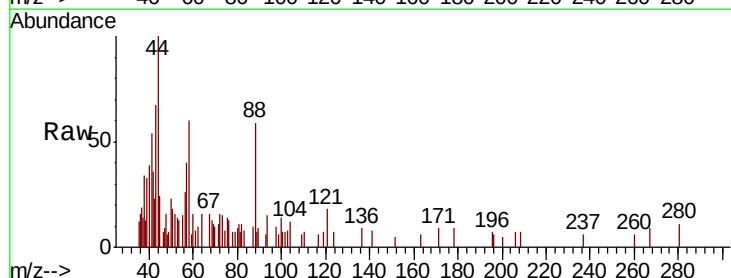
Tgt Ion: 88 Resp: 1452

Ion Ratio Lower Upper

88 100

43 0.0 23.2 34.8#

58 0.0 51.4 77.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1000

800

600

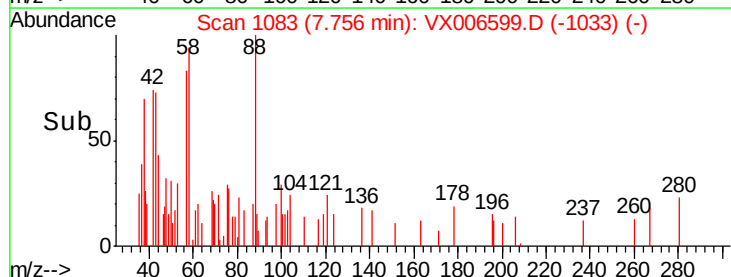
400

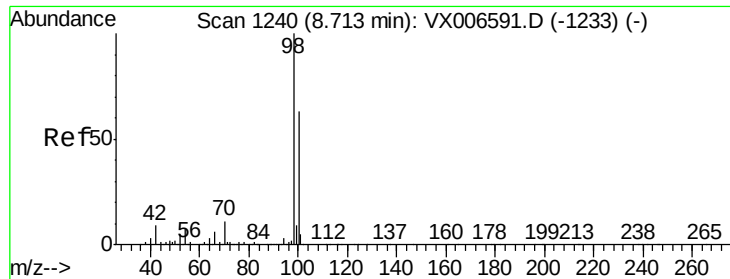
200

0

Time-->

7.70 7.75 7.80 7.85





#50

Toluene-d8

Concen: 49.558 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampleId :

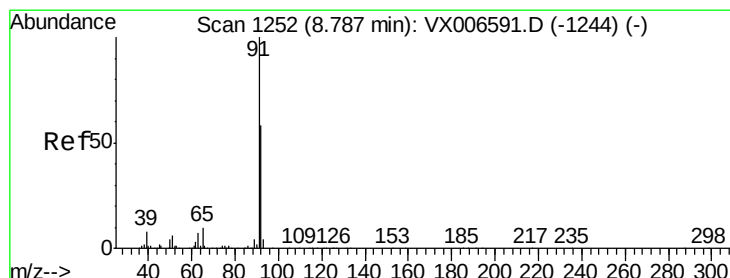
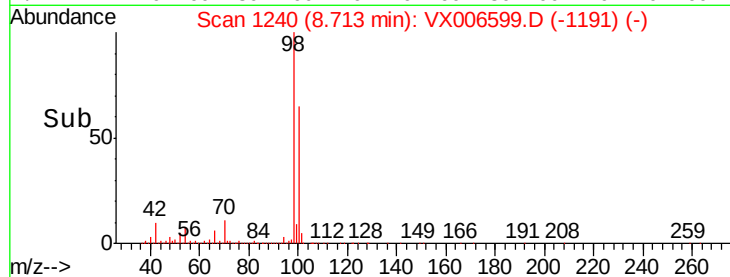
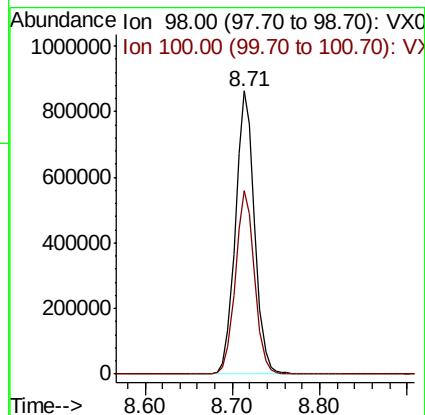
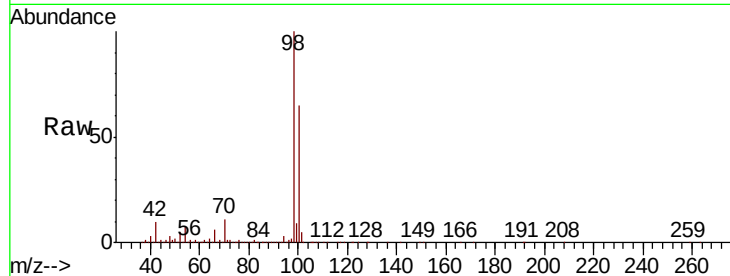
23701

Tot Ion: 98 Resp: 1323988

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



#52

Toluene

Concen: 4.033 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006599.D

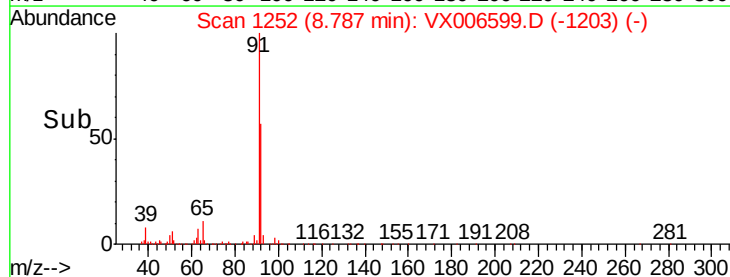
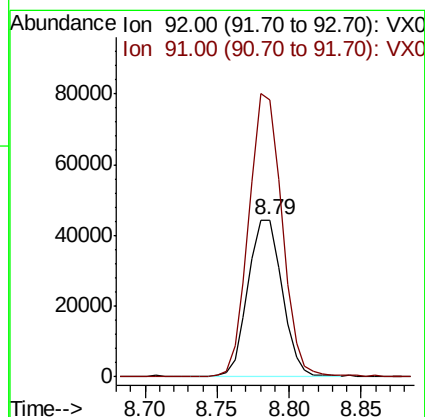
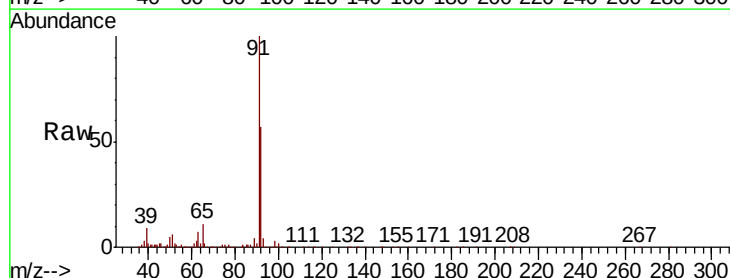
Acq: 18 Dec 2018 15:51

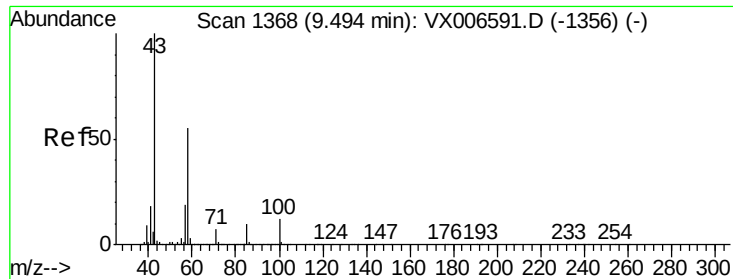
Tgt Ion: 92 Resp: 73504

Ion Ratio Lower Upper

92 100

91 175.4 139.2 208.8

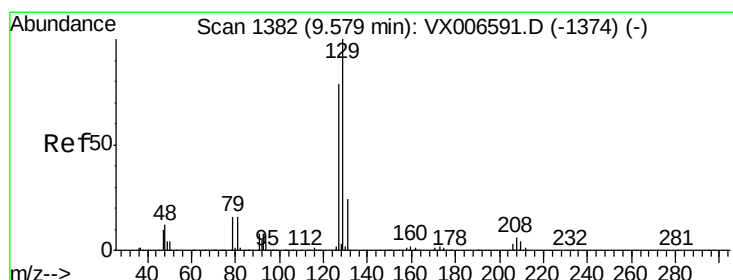
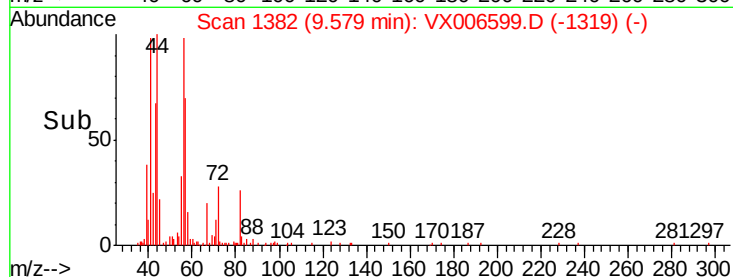
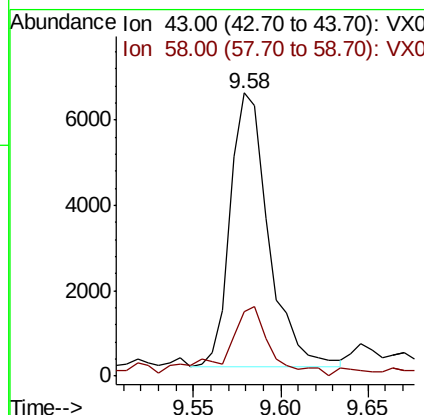
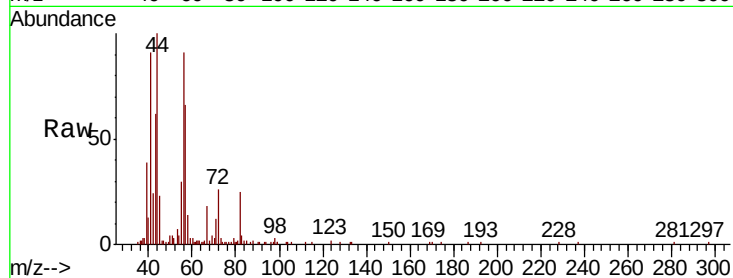




#59
2-Hexanone
Concen: 1.377 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.09 min
Lab File: VX006599.D
Acq: 18 Dec 2018 15:51

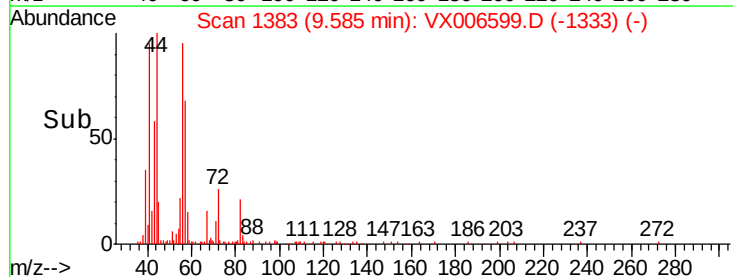
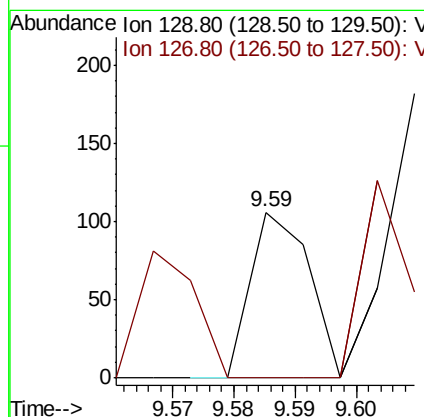
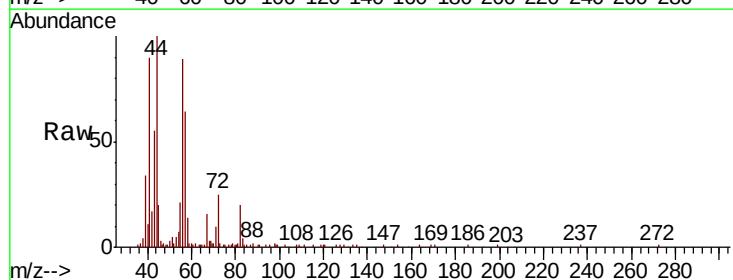
Instrument :
MSVOA_X
ClientSampled :
23701

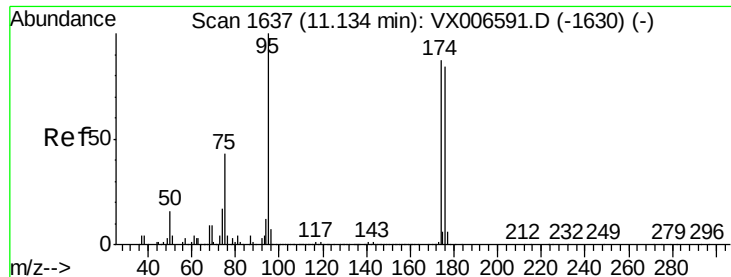
Tot Ion: 43 Resp: 9852
Ion Ratio Lower Upper
43 100
58 29.6 27.7 83.1



#60
Dibromochloromethane
Concen: 2.333 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.01 min
Lab File: VX006599.D
Acq: 18 Dec 2018 15:51

Tgt Ion: 129 Resp: 70
Ion Ratio Lower Upper
129 100
127 74.3 38.6 115.8





#62

4-Bromofluorobenzene

Concen: 50.280 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampled :

23701

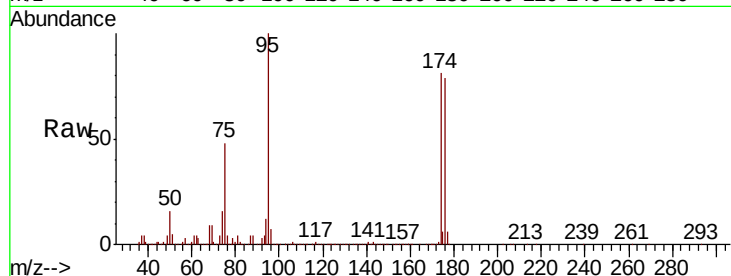
Tot Ion: 95 Resp: 491969

Ion Ratio Lower Upper

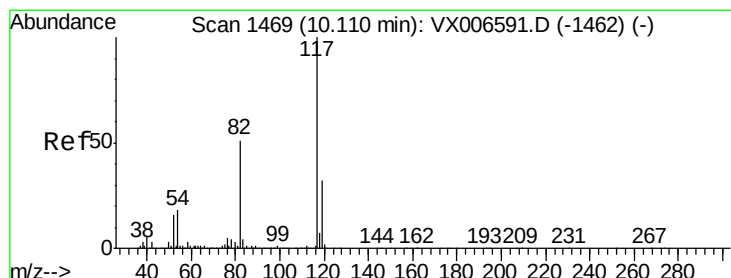
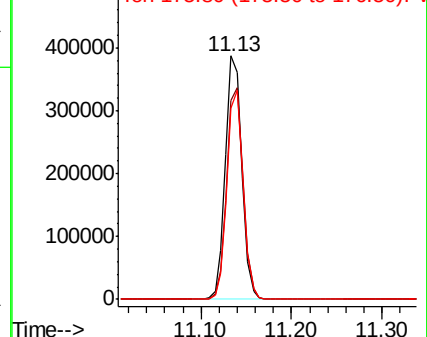
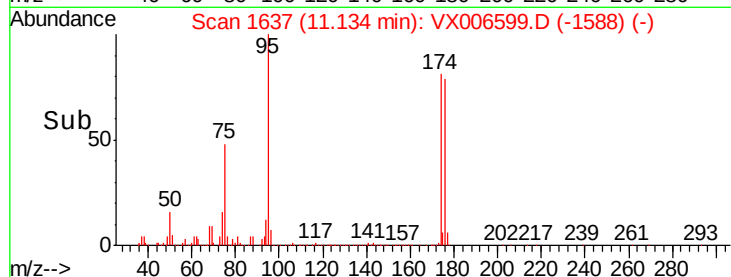
95 100

174 87.4 0.0 187.0

176 84.3 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006599.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

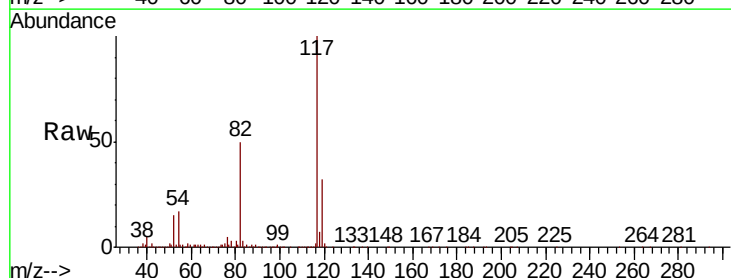
Tgt Ion: 117 Resp: 1040990

Ion Ratio Lower Upper

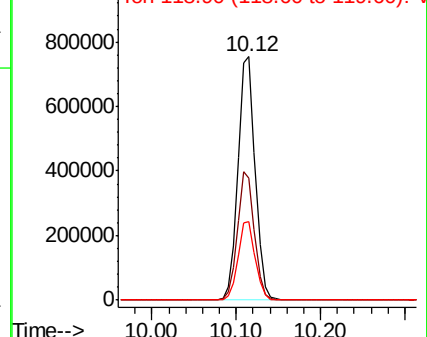
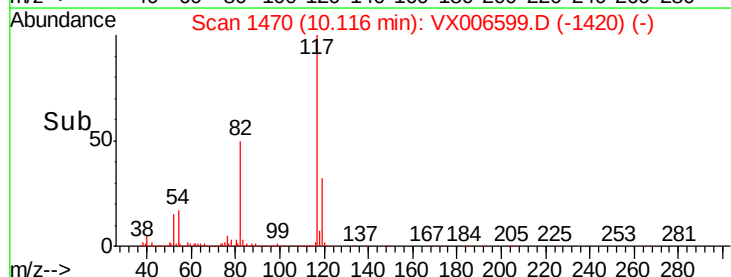
117 100

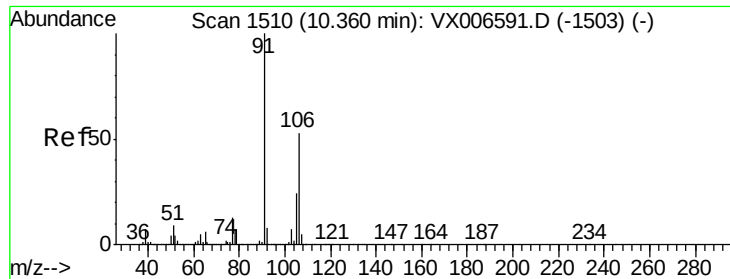
82 50.1 39.6 59.4

119 32.4 26.3 39.5



Abundance Ion 116.90 (116.60 to 117.60): VX006599.D (-1420) (-)

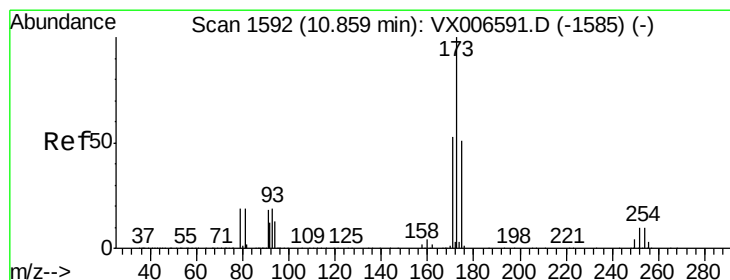
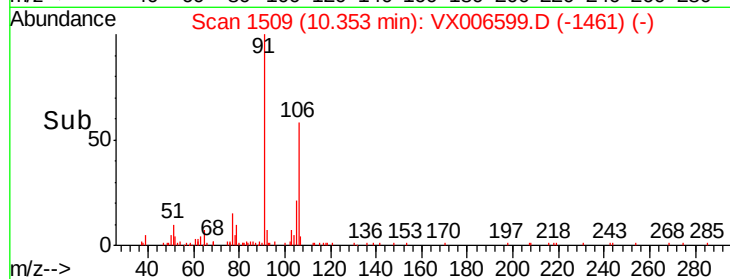
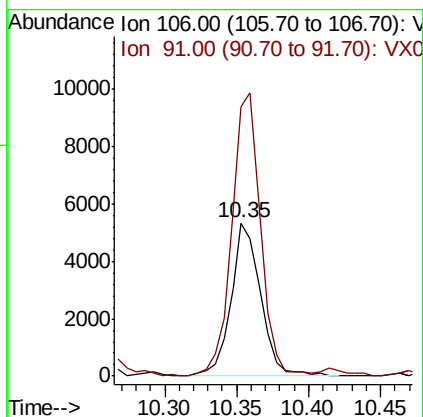
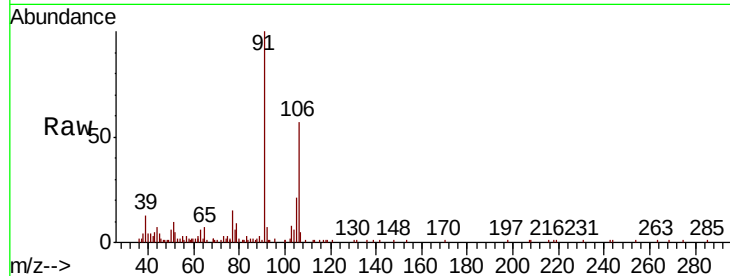




#68
m/p-Xylenes
Concen: 0.544 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX006599.D
Acq: 18 Dec 2018 15:51

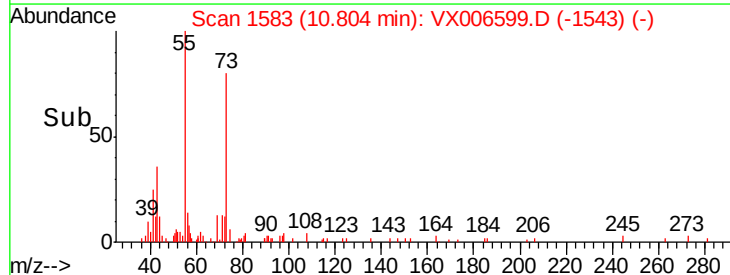
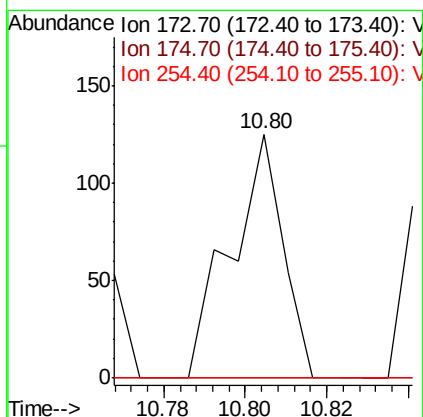
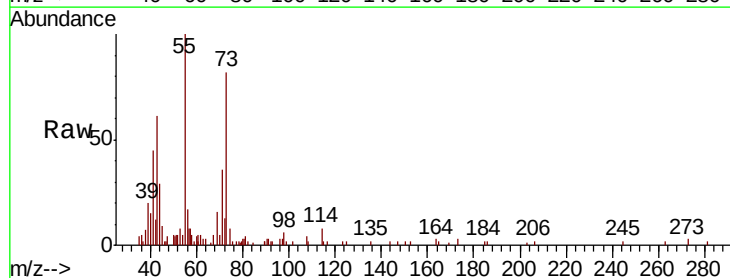
Instrument :
MSVOA_X
ClientSampleId :
23701

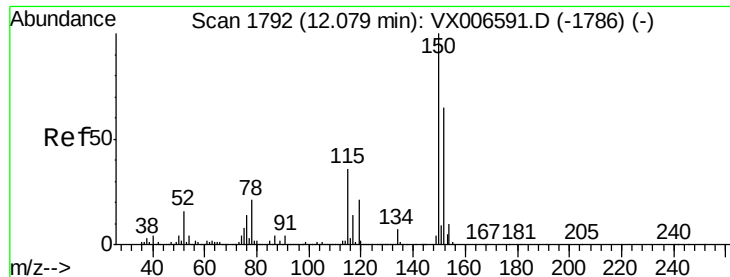
Tot Ion:106 Resp: 7723
Ion Ratio Lower Upper
106 100
91 178.9 155.2 232.8



#71
Bromoform
Concen: 4.476 ug/l
RT: 10.80 min Scan# 1583
Delta R.T. -0.05 min
Lab File: VX006599.D
Acq: 18 Dec 2018 15:51

Tgt Ion:173 Resp: 112
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampleId :

23701

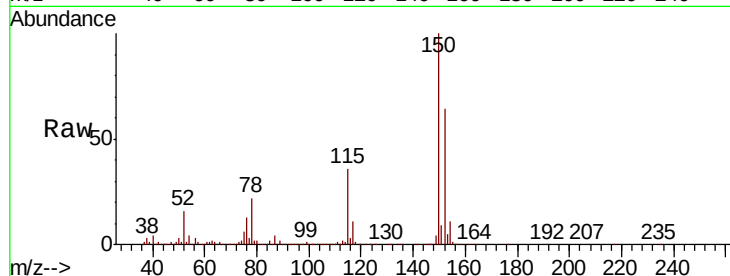
Tot Ion:152 Resp: 505249

Ion Ratio Lower Upper

152 100

115 56.9 39.0 116.9

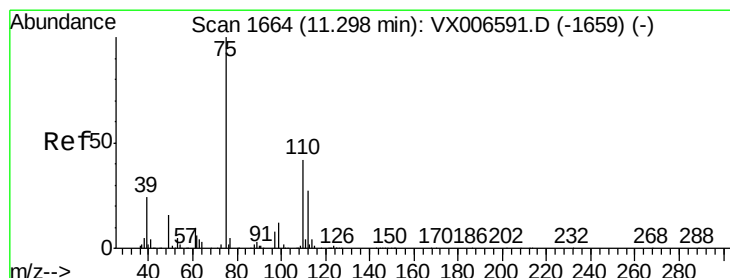
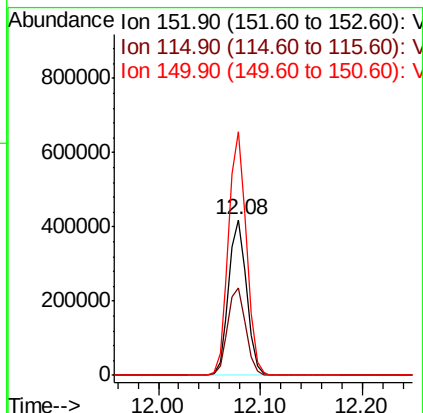
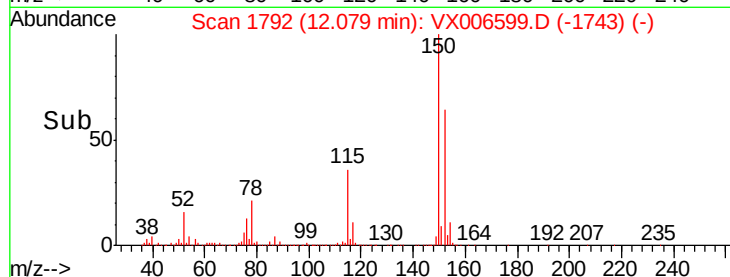
150 156.6 0.0 345.8



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: 26.037 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006599.D

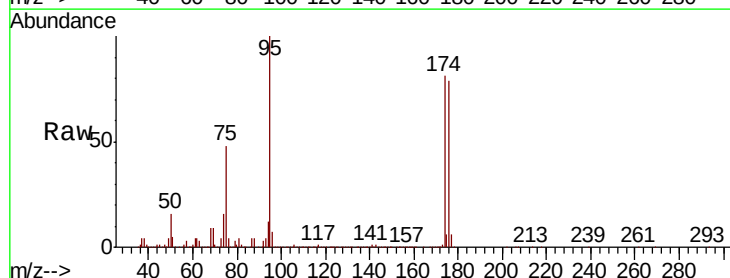
Acq: 18 Dec 2018 15:51

Tgt Ion: 75 Resp: 230566

Ion Ratio Lower Upper

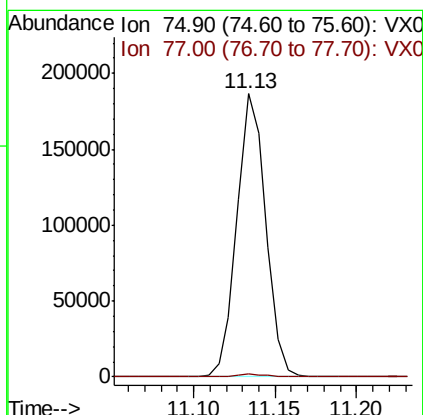
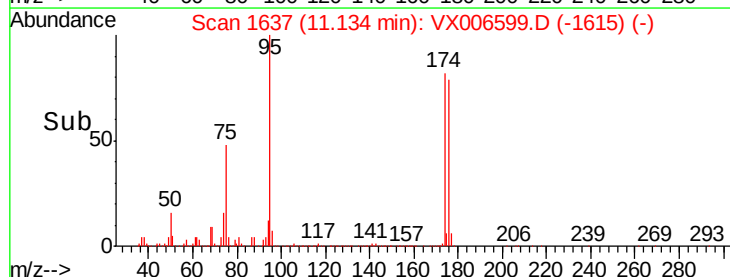
75 100

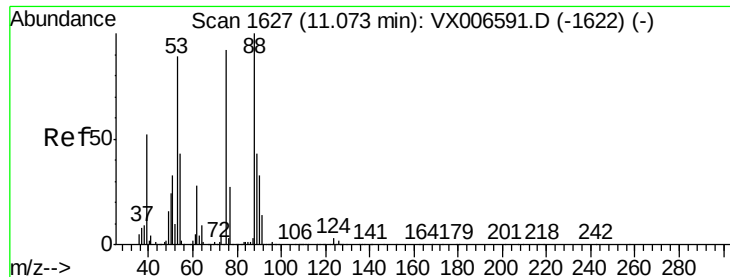
77 1.1 19.9 59.7#



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: 72.636 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampleId :

23701

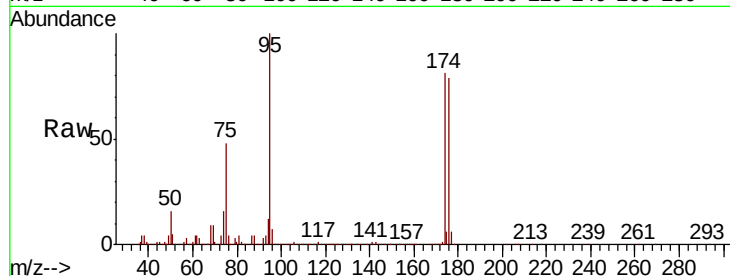
Tot Ion: 75 Resp: 230566

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

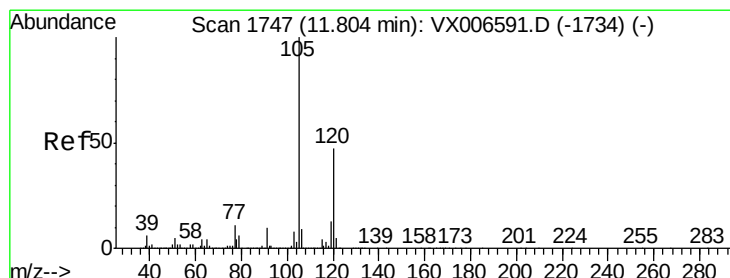
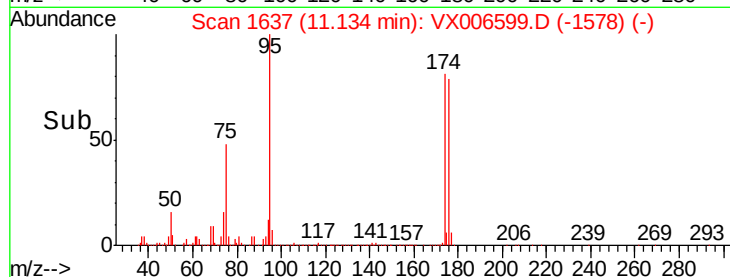
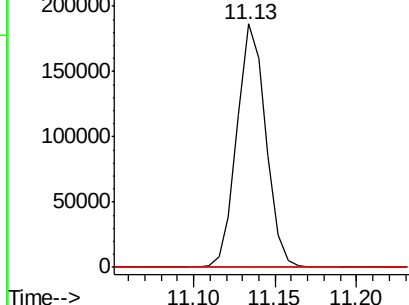
89 0.1 44.2 66.4#



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: 0.245 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX006599.D

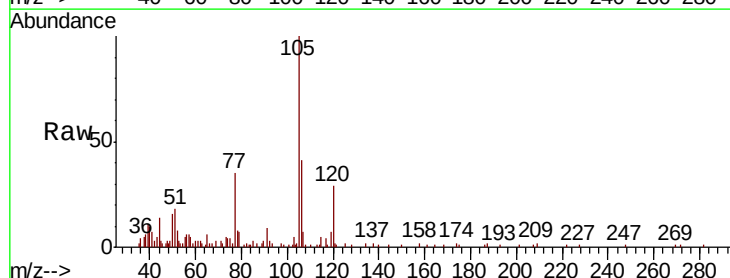
Acq: 18 Dec 2018 15:51

Tgt Ion:105 Resp: 7341

Ion Ratio Lower Upper

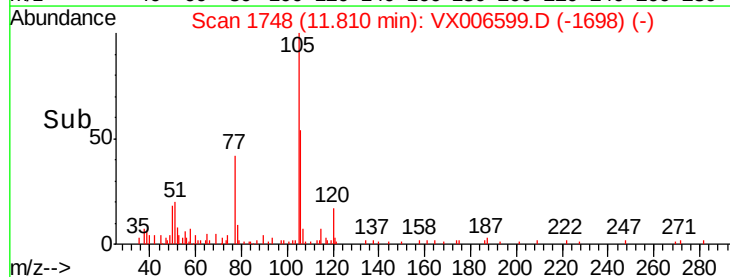
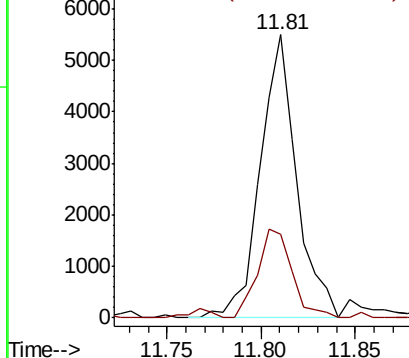
105 100

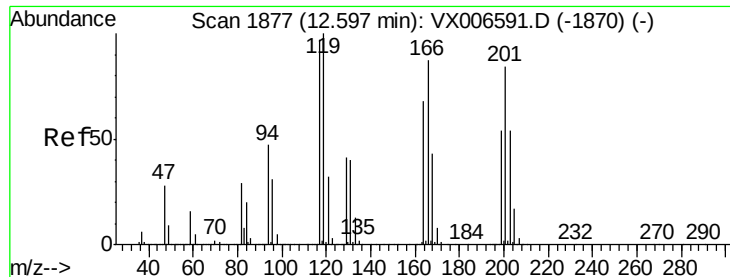
120 29.8 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 3.318 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

Instrument :

MSVOA_X

ClientSampled :

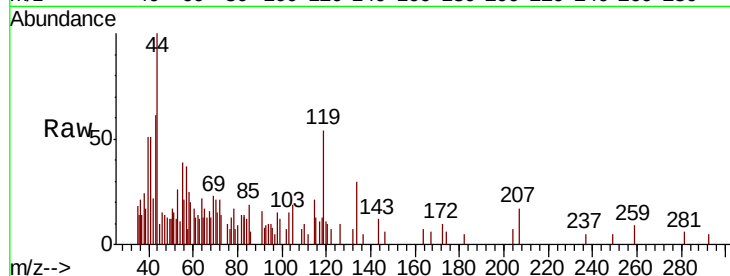
23701

Tot Ion:117 Resp: 128

Ion Ratio Lower Upper

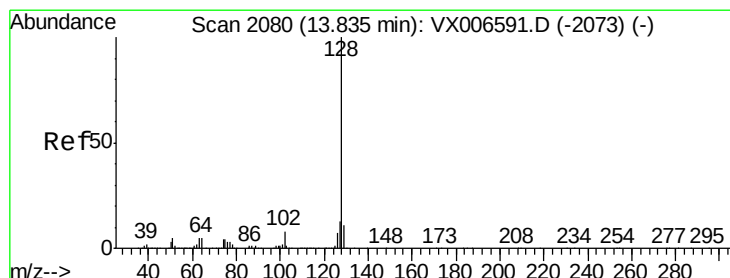
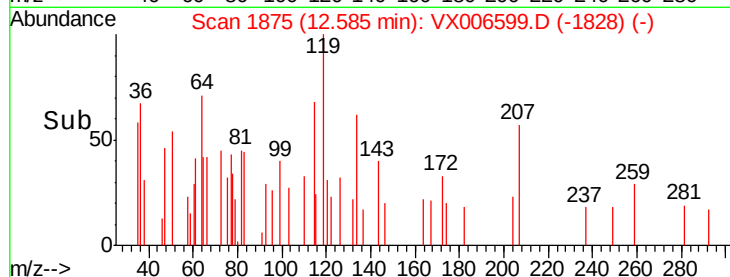
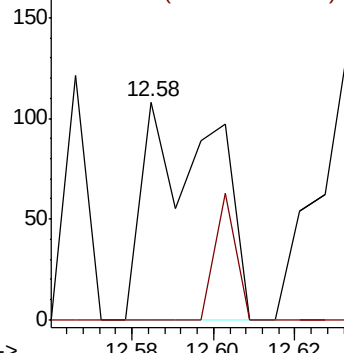
117 100

201 18.0 44.7 134.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.265 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006599.D

Acq: 18 Dec 2018 15:51

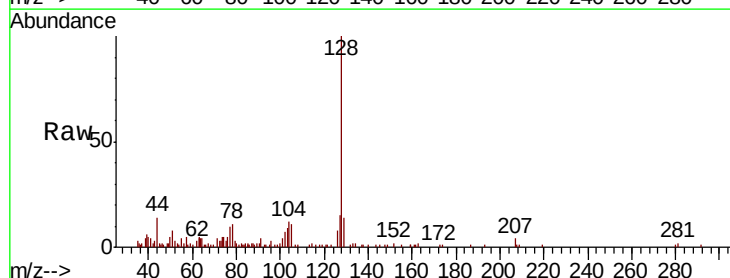
Tgt Ion:128 Resp: 9816

Ion Ratio Lower Upper

128 100

127 18.5 10.2 15.4#

129 17.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

