

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002791.D
 Acq On : 21 Jun 2018 16:29
 Operator : JC/MD
 Sample : J3570-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 01:10:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	222682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	313738	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	293270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	168698	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	152606	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	
35) Dibromofluoromethane	5.51	113	68013	27.16	ug/l	0.00
Spiked Amount			Recovery	=	54.32%	
50) Toluene-d8	8.72	98	446000	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
62) 4-Bromofluorobenzene	11.14	95	155169	43.07	ug/l	0.00
Spiked Amount			Recovery	=	86.14%	

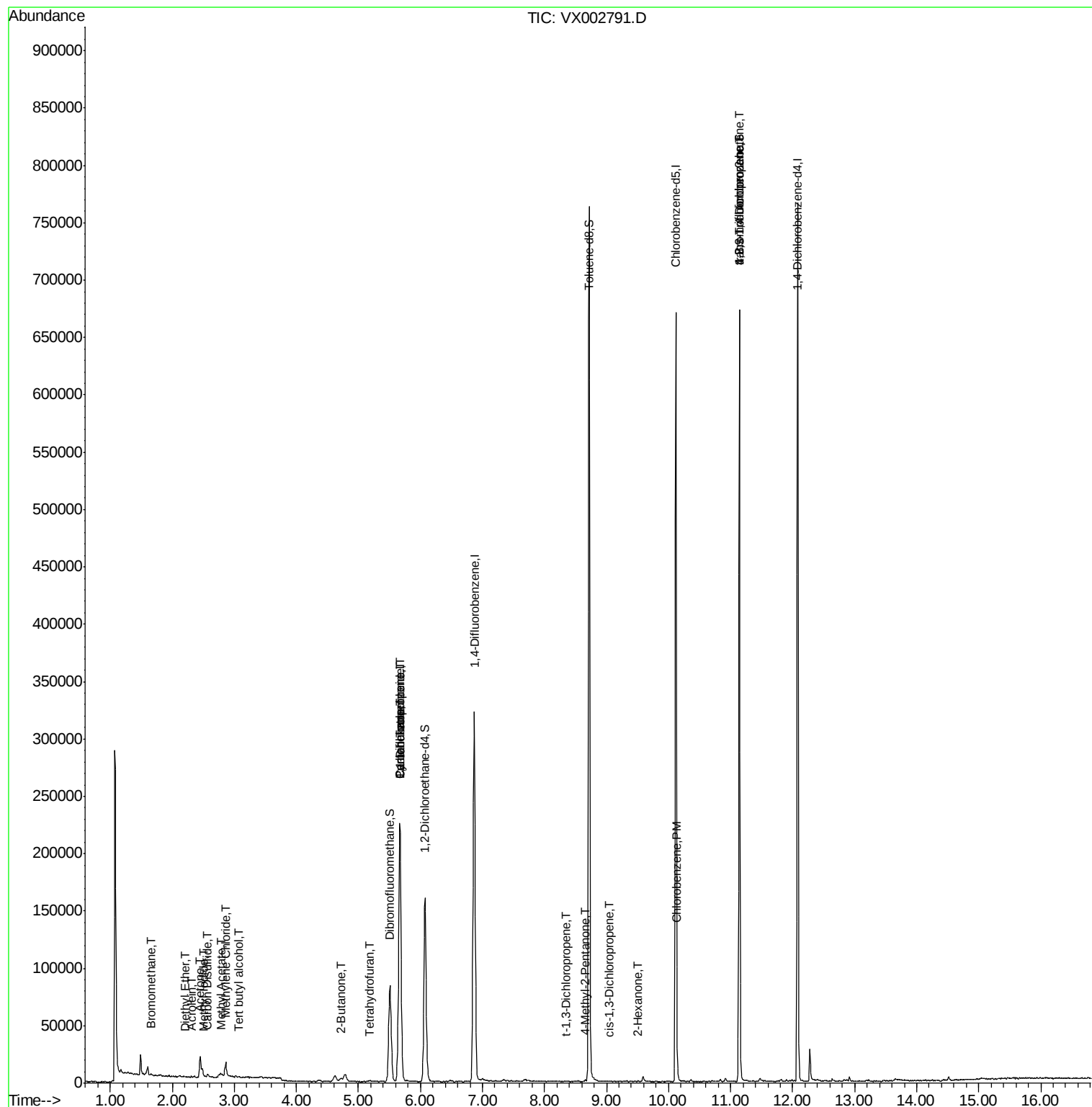
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	464	0.26	ug/l	82
8) Diethyl Ether	2.20	74	397	0.22	ug/l	89
10) Methyl Iodide	2.51	142	730	5.36	ug/l #	86
11) Tert butyl alcohol	3.07	59	407	0.58	ug/l #	47
13) Acrolein	2.30	56	565	8.54	ug/l	94
16) Acetone	2.45	43	20381	13.65	ug/l	100
17) Carbon Disulfide	2.57	76	3814	0.65	ug/l	96
18) Methyl Acetate	2.79	43	2289	0.58	ug/l #	87
20) Methylene Chloride	2.86	84	5156	1.68	ug/l	92
25) 2-Butanone	4.71	43	3922	2.00	ug/l	92
29) Tetrahydrofuran	5.18	42	475	0.37	ug/l #	62
31) Cyclohexane	5.67	56	4680	1.17	ug/l #	24
36) 1,1-Dichloropropene	5.67	75	15679	4.71	ug/l #	47
38) Carbon Tetrachloride	5.67	117	20676	6.23	ug/l #	16
51) 4-Methyl-2-Pentanone	8.66	43	805	0.20	ug/l #	79
53) t-1,3-Dichloropropene	8.35	75	63	2.41	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	21	3.22	ug/l #	53
59) 2-Hexanone	9.51	43	773	0.26	ug/l	82
65) Chlorobenzene	10.14	112	1556	0.22	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	83016	26.08	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	83016	80.65	ug/l #	7

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

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QLast Update : Sat Jun 16 01:37:33 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :

MSVOA_X

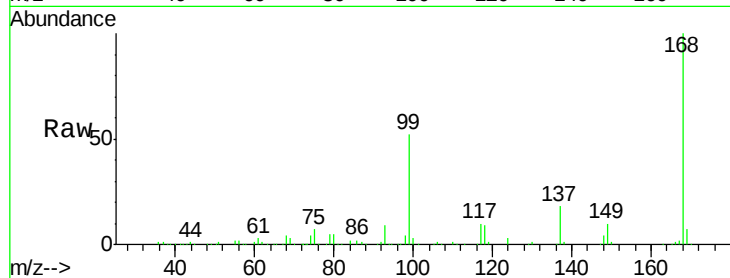
ClientSampled :

Tot Ion:168 Resp: 222682

Ion Ratio Lower Upper

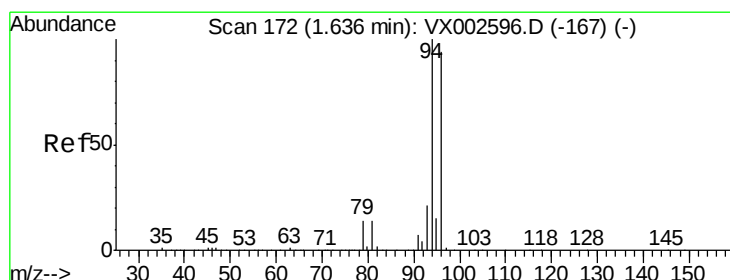
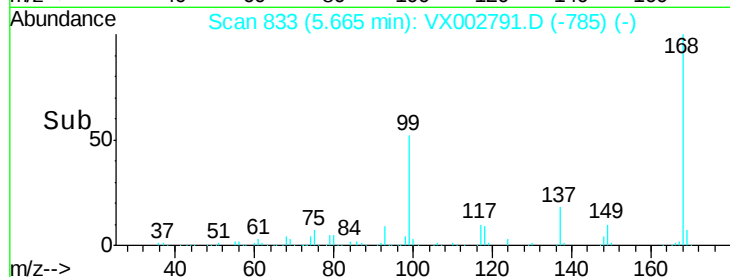
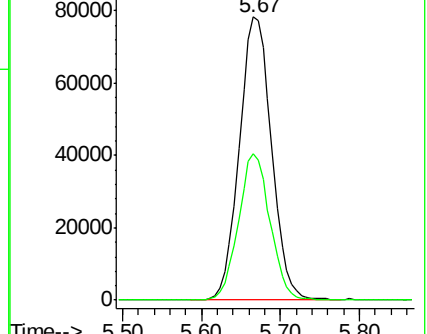
168 100

99 51.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.26 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002791.D

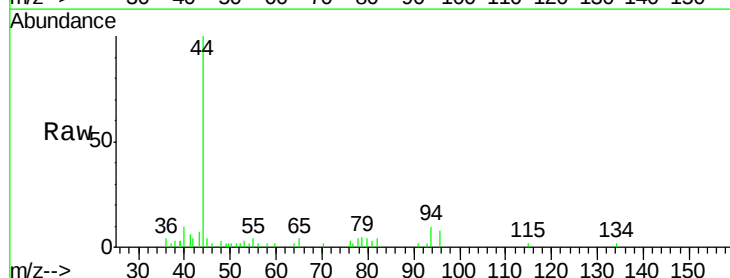
Acq: 21 Jun 2018 16:29

Tgt Ion: 94 Resp: 464

Ion Ratio Lower Upper

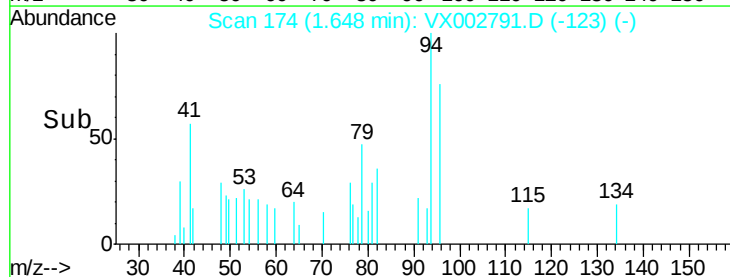
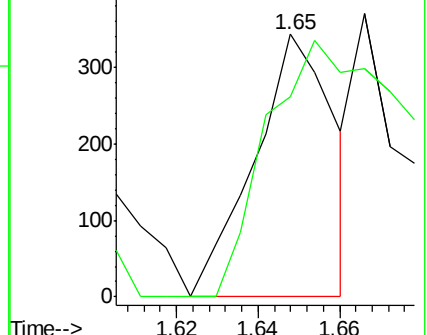
94 100

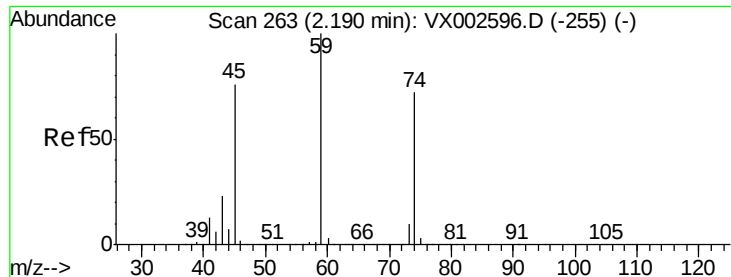
96 76.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.22 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :

MSVOA_X

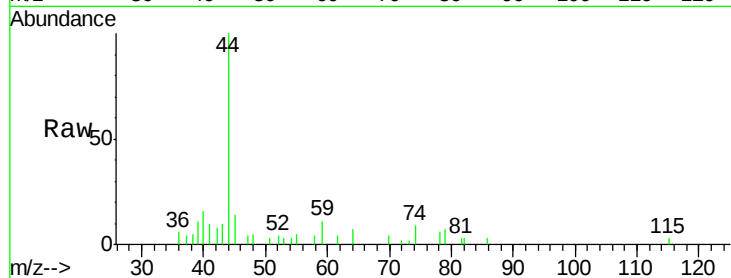
ClientSampleId :

Tot Ion: 74 Resp: 397

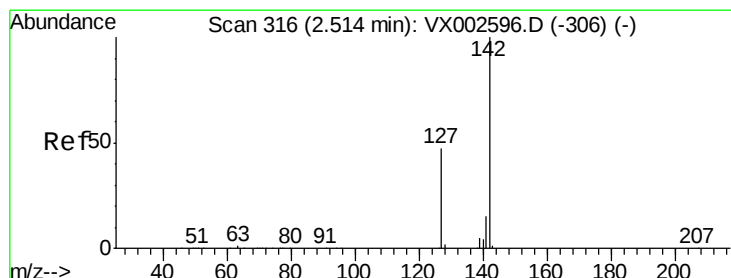
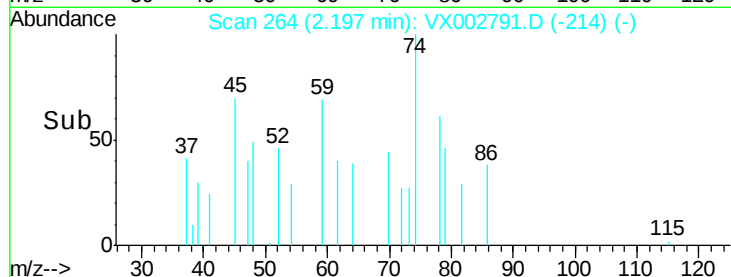
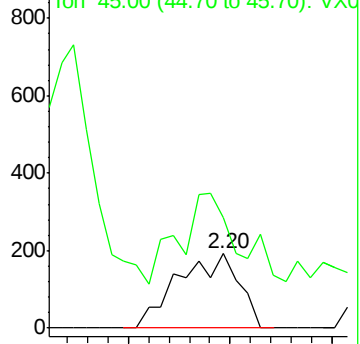
Ion Ratio Lower Upper

74 100

45 117.6 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX002791.D (-214) (-)



#10

Methyl Iodide

Concen: 5.36 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

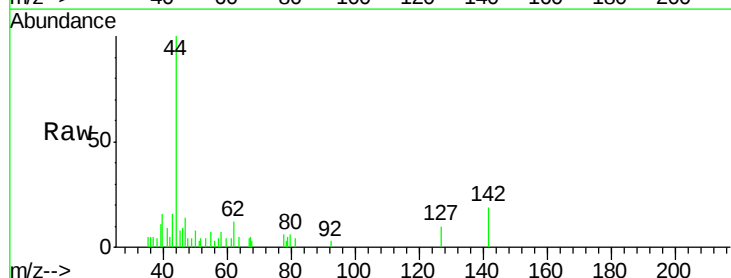
Tgt Ion: 142 Resp: 730

Ion Ratio Lower Upper

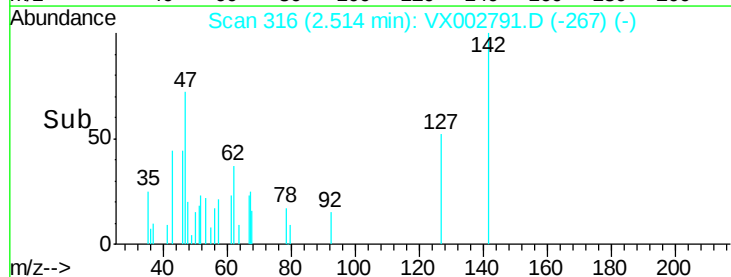
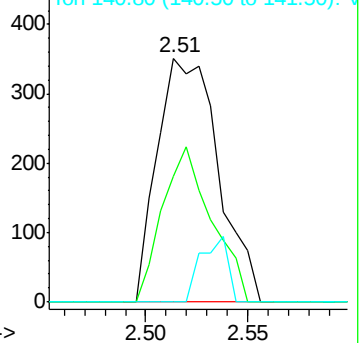
142 100

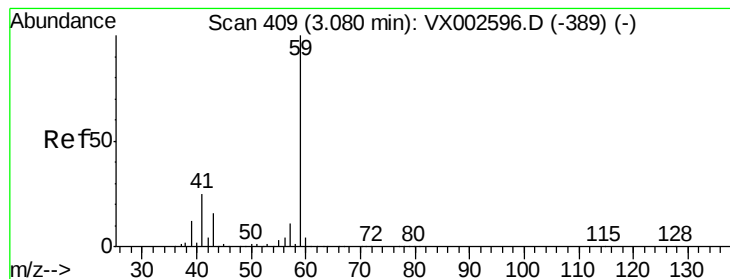
127 51.0 36.6 55.0

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VX002791.D (-267) (-)



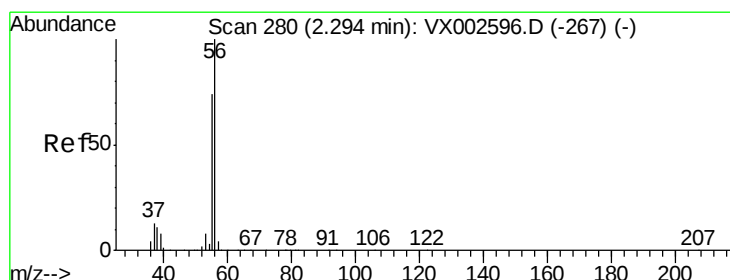
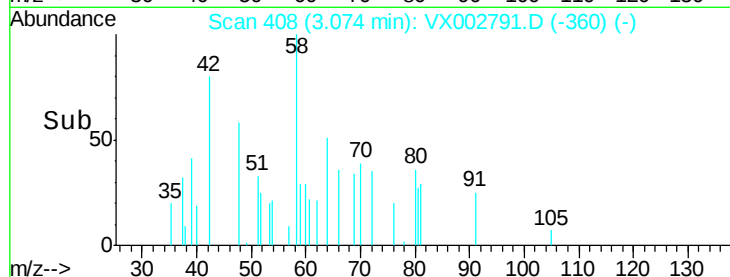
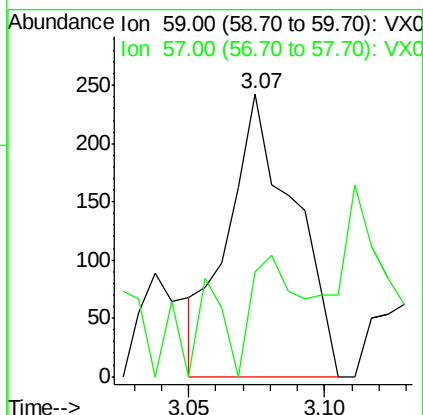
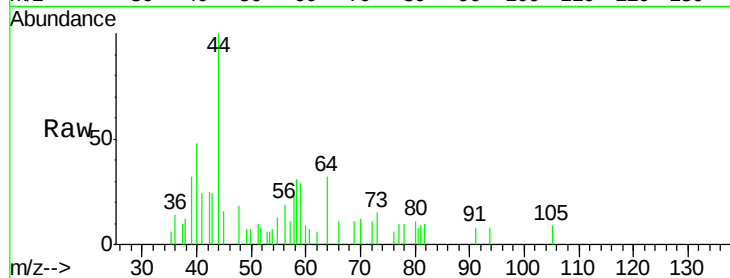


#11

Tert butyl alcohol
 Concen: 0.58 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX002791.D
 Acq: 21 Jun 2018 16:29

Instrument :
 MSVOA_X
 ClientSampled :

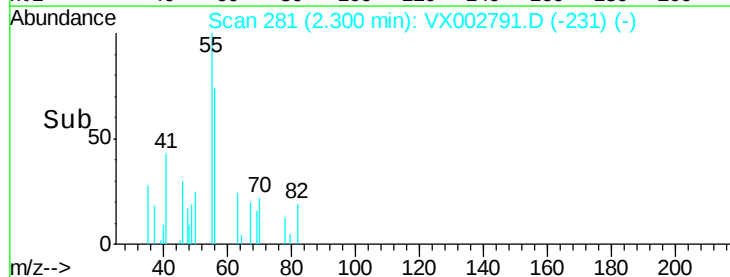
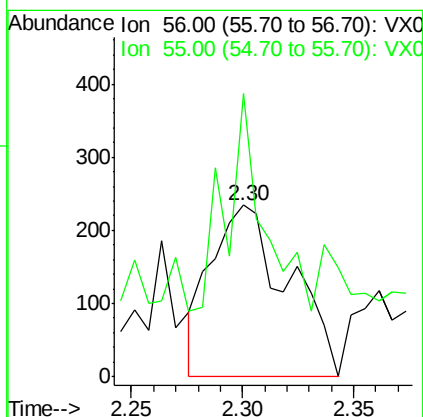
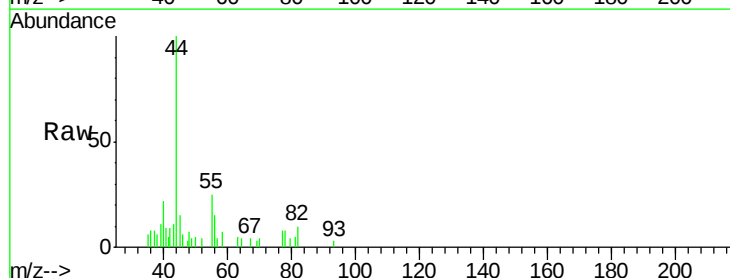
Tot Ion: 59 Resp: 407
 Ion Ratio Lower Upper
 59 100
 57 30.0 8.2 12.2#

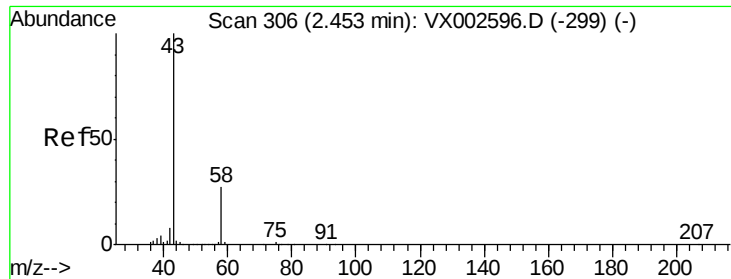


#13

Acrolein
 Concen: 8.54 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX002791.D
 Acq: 21 Jun 2018 16:29

Tgt Ion: 56 Resp: 565
 Ion Ratio Lower Upper
 56 100
 55 75.9 57.0 85.4

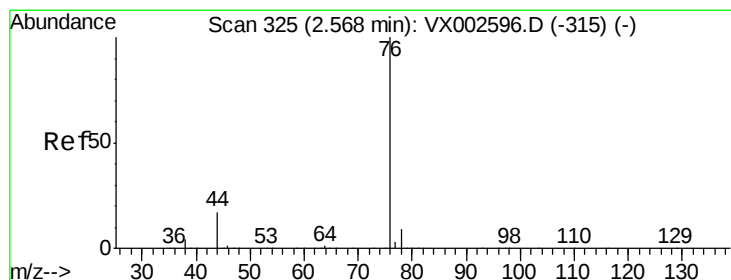
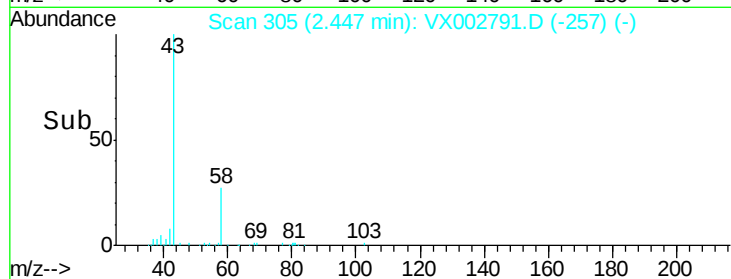
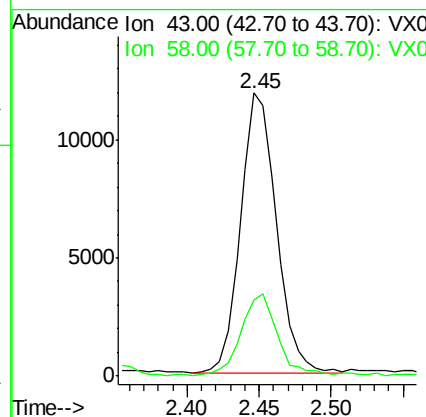
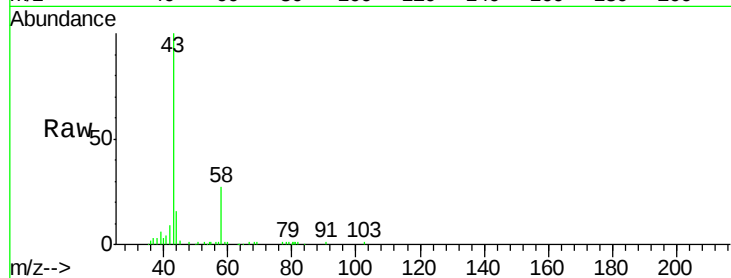




#16
Acetone
Concen: 13.65 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002791.D
Acq: 21 Jun 2018 16:29

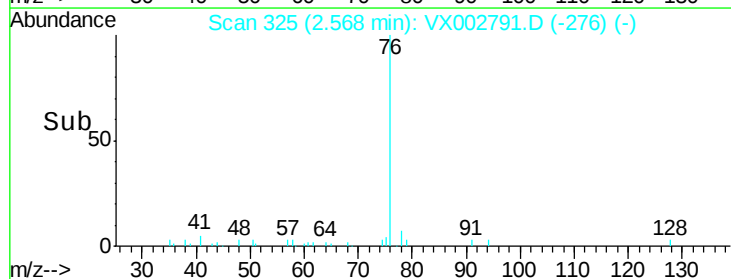
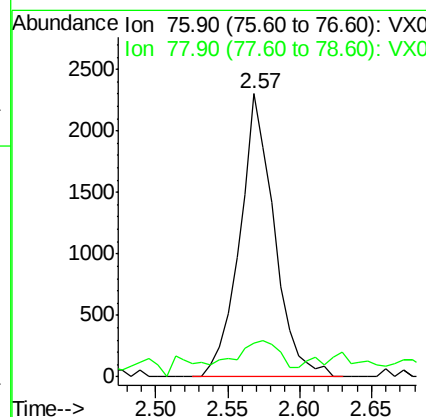
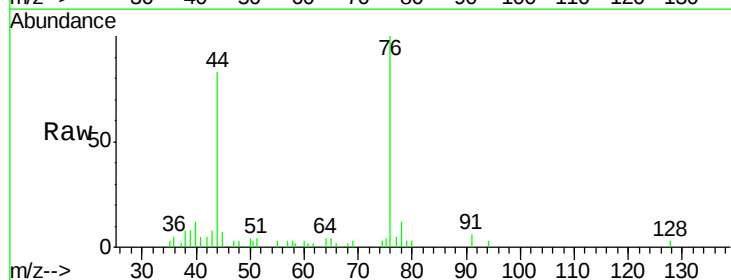
Instrument :
MSVOA_X
ClientSampleId :

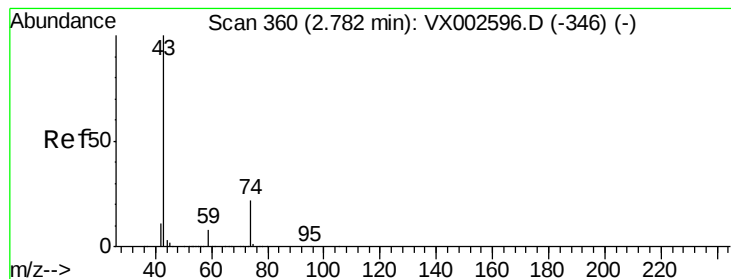
Tot Ion: 43 Resp: 20381
Ion Ratio Lower Upper
43 100
58 27.3 22.1 33.1



#17
Carbon Disulfide
Concen: 0.65 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX002791.D
Acq: 21 Jun 2018 16:29

Tgt Ion: 76 Resp: 3814
Ion Ratio Lower Upper
76 100
78 7.0 6.9 10.3





#18

Methyl Acetate

Concen: 0.58 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :

MSVOA_X

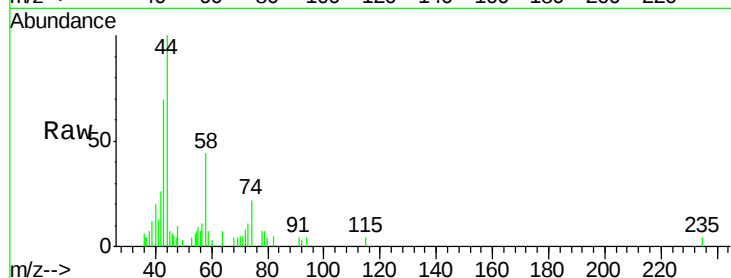
ClientSampleId :

Tot Ion: 43 Resp: 2289

Ion Ratio Lower Upper

43 100

74 14.7 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.79

1200

1000

800

600

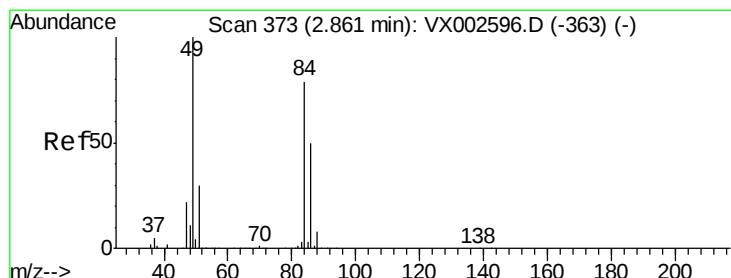
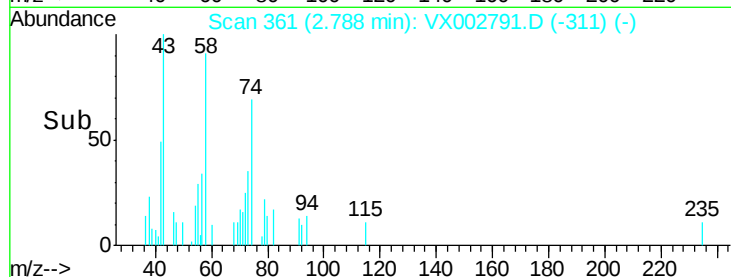
400

200

0

Time-->

2.70 2.75 2.80 2.85



#20

Methylene Chloride

Concen: 1.68 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Tgt Ion: 84 Resp: 5156

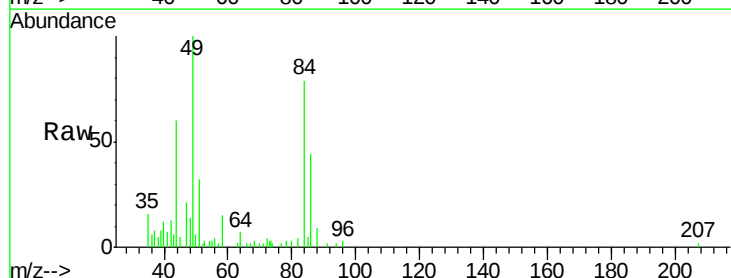
Ion Ratio Lower Upper

84 100

49 126.7 107.8 161.6

51 38.2 32.8 49.2

86 55.6 52.5 78.7



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

5000

4000

3000

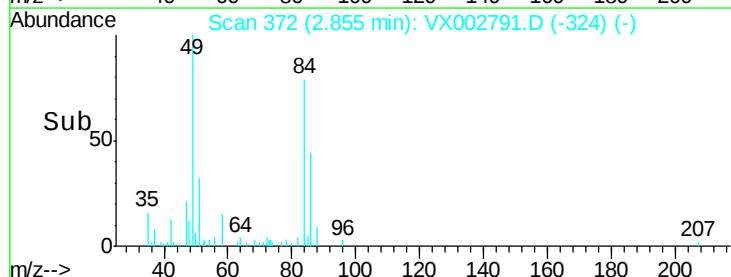
2000

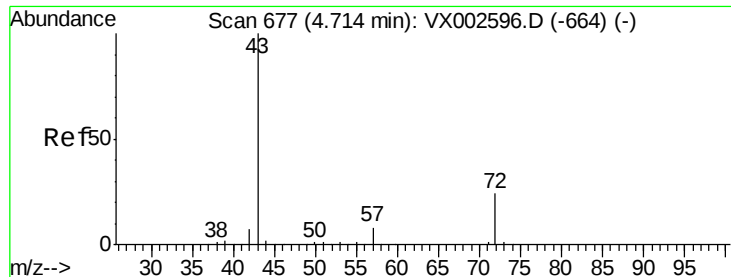
1000

0

Time-->

2.80 2.85 2.90 2.95





#25

2-Butanone

Concen: 2.00 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :

MSVOA_X

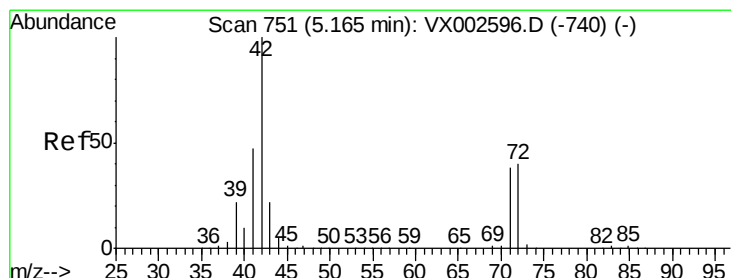
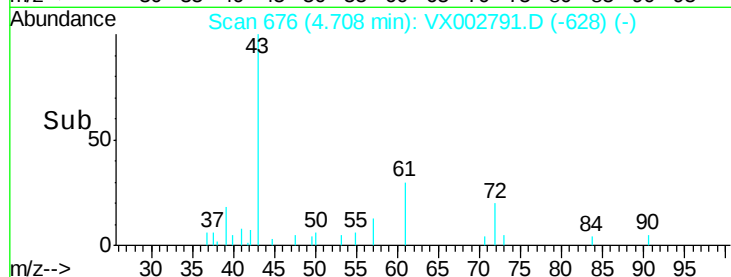
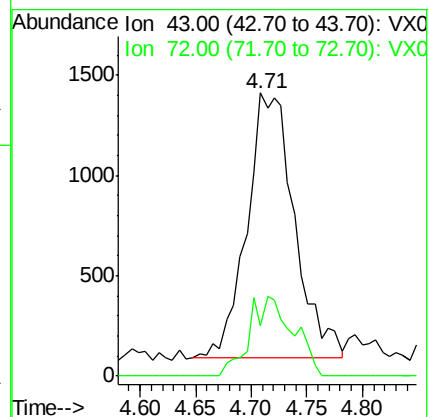
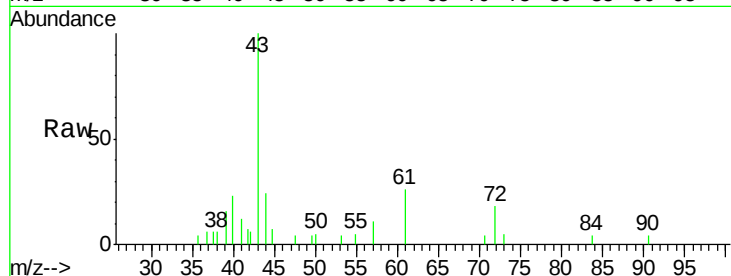
ClientSampleId :

Tot Ion: 43 Resp: 3922

Ion Ratio Lower Upper

43 100

72 19.2 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

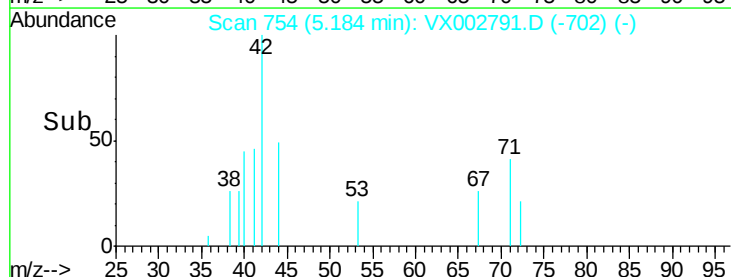
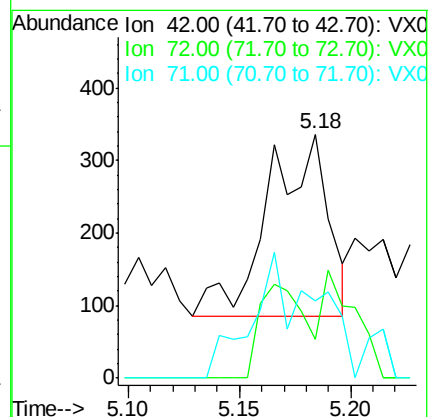
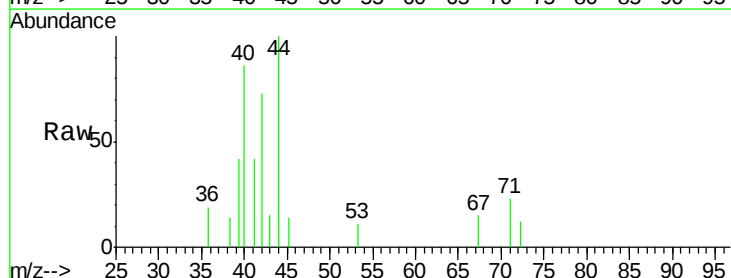
Tgt Ion: 42 Resp: 475

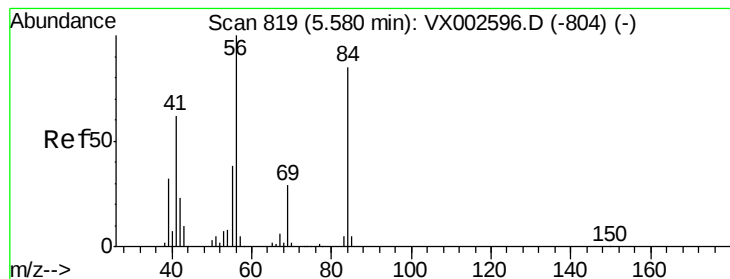
Ion Ratio Lower Upper

42 100

72 31.4 32.0 48.0#

71 0.0 30.1 45.1#





#31

Cyclohexane

Concen: 1.17 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :
MSVOA_X
ClientSampled :

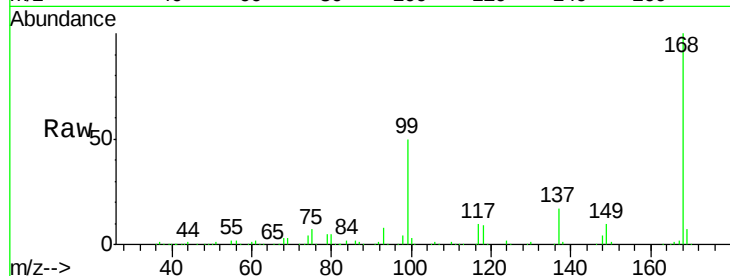
Tot Ion: 56 Resp: 4680

Ion Ratio Lower Upper

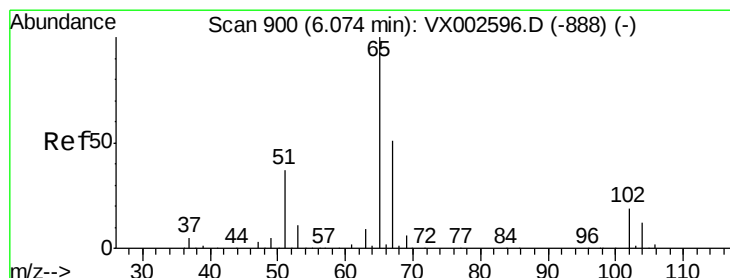
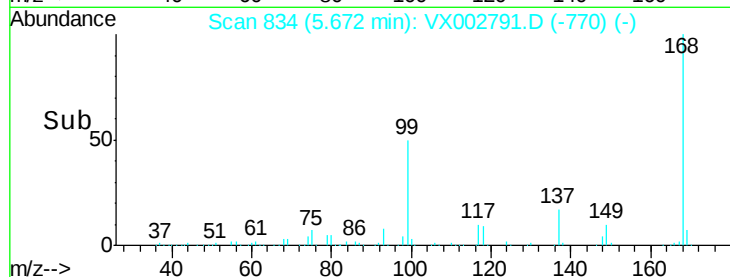
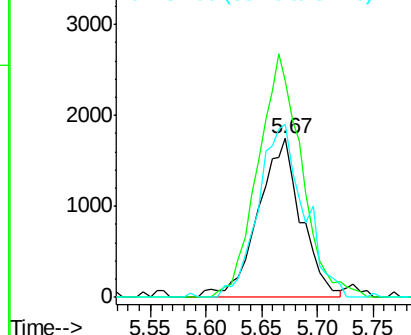
56 100

69 137.1 23.7 35.5#

84 106.6 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.10 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002791.D

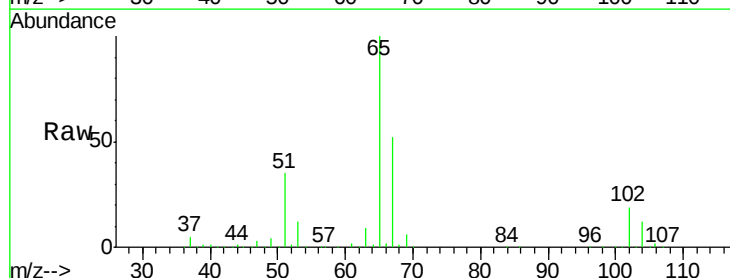
Acq: 21 Jun 2018 16:29

Tgt Ion: 65 Resp: 152606

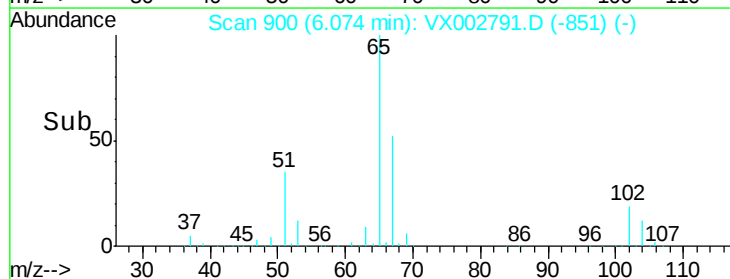
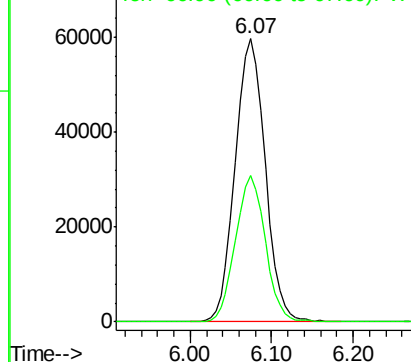
Ion Ratio Lower Upper

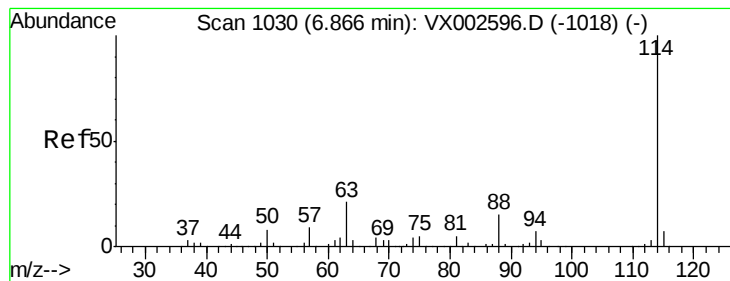
65 100

67 51.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

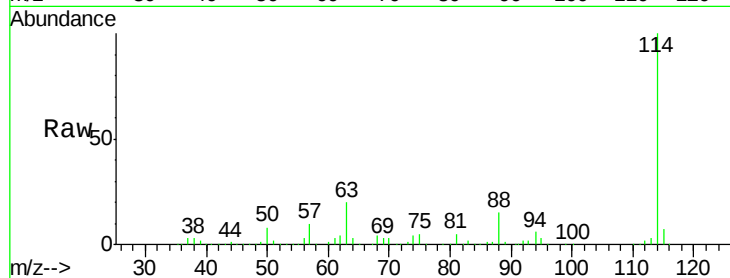
Tot Ion:114 Resp: 313738

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

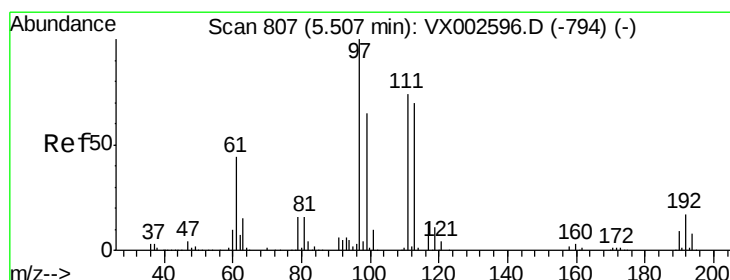
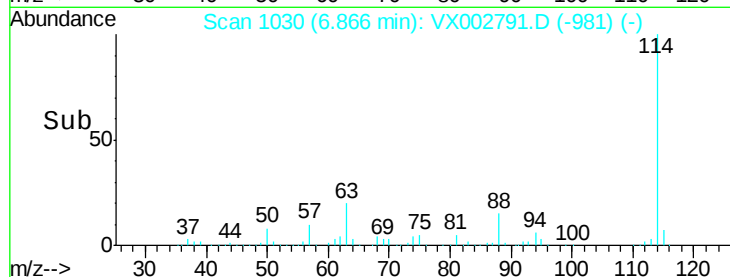
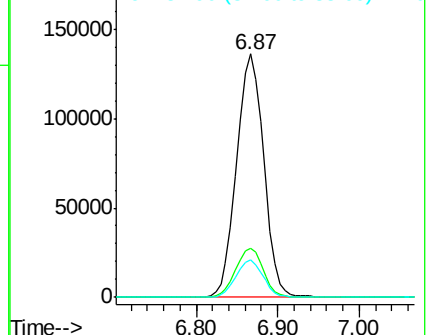
88 15.3 0.0 30.0



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: 27.16 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

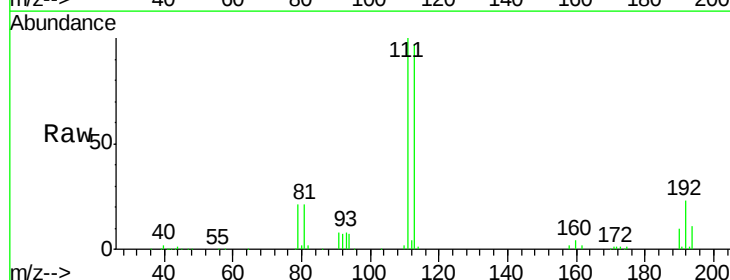
Tgt Ion:113 Resp: 68013

Ion Ratio Lower Upper

113 100

111 103.4 81.4 122.0

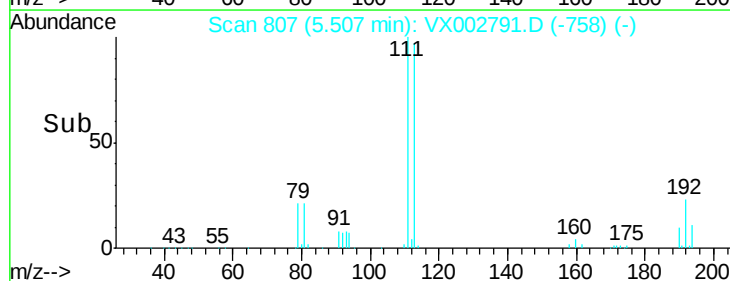
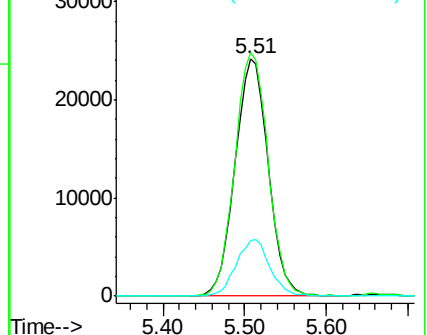
192 23.9 19.1 28.7

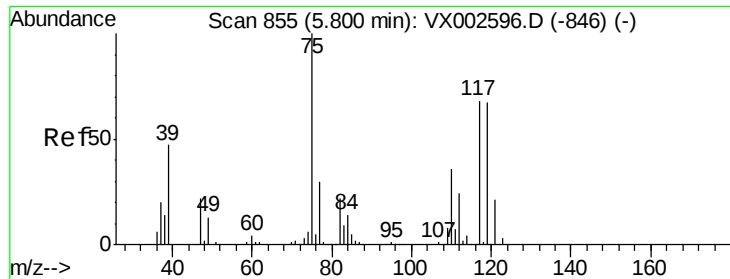


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

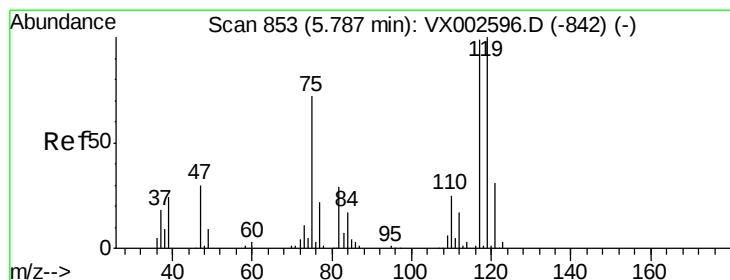
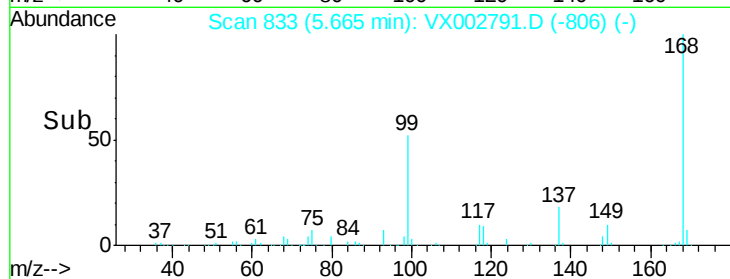
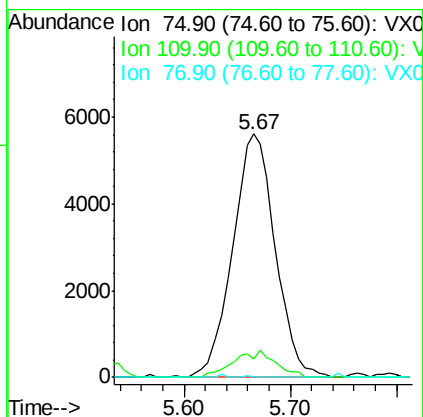
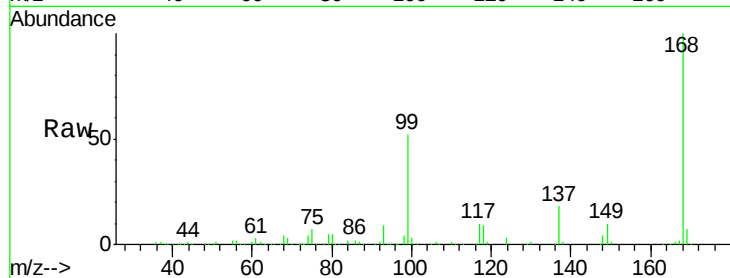




#36
 1,1-Dichloropropene
 Concen: 4.71 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002791.D
 Acq: 21 Jun 2018 16:29

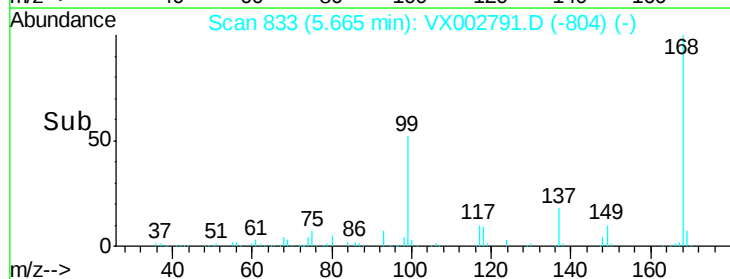
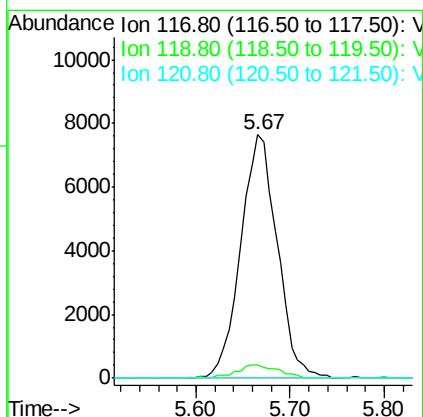
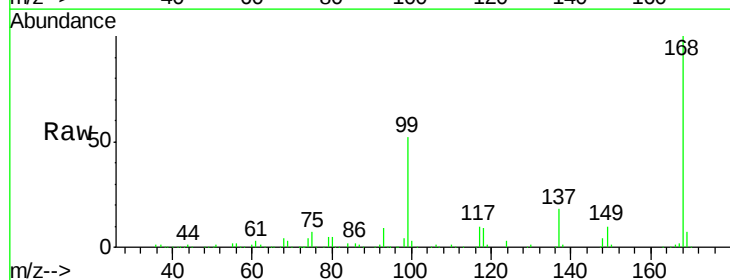
Instrument :
 MSVOA_X
 ClientSampleId :

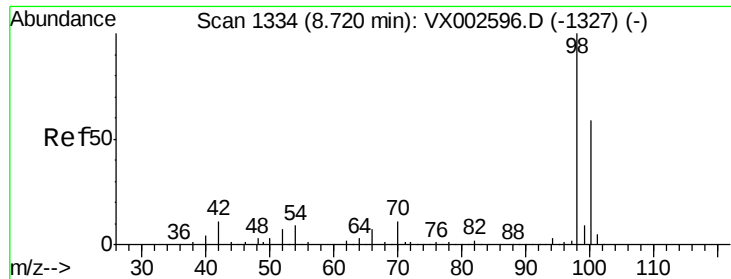
Tot Ion: 75 Resp: 15679
 Ion Ratio Lower Upper
 75 100
 110 5.9 18.1 54.4#
 77 0.1 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.23 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002791.D
 Acq: 21 Jun 2018 16:29

Tgt Ion: 117 Resp: 20676
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.4 116.0#
 121 0.0 24.4 36.6#

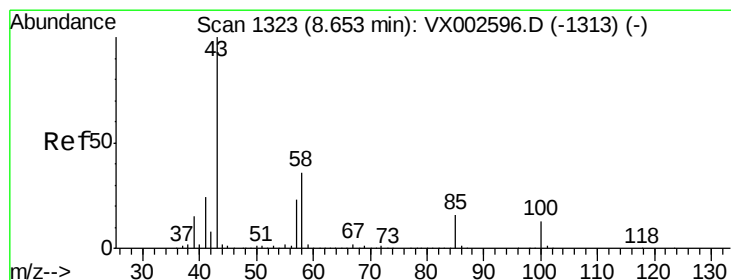
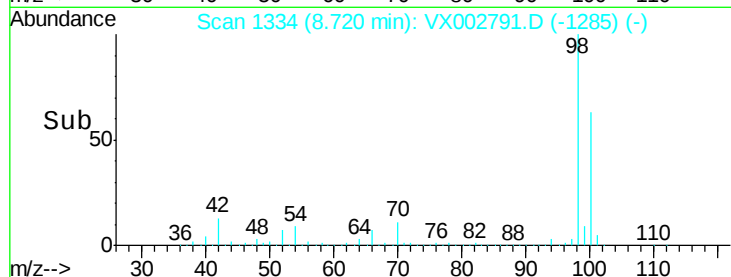
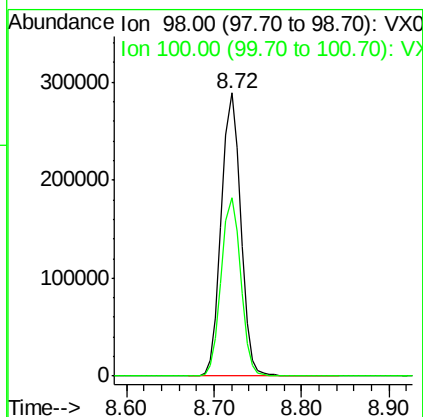
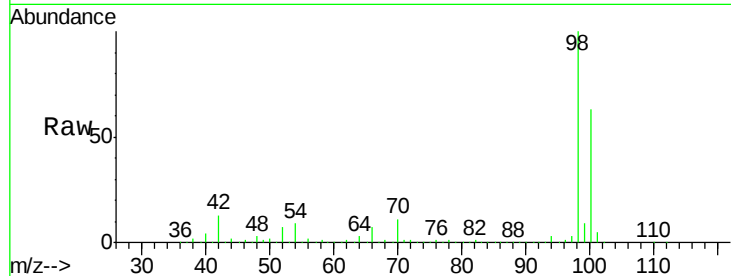




#50
Toluene-d8
Concen: 46.91 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002791.D
Acq: 21 Jun 2018 16:29

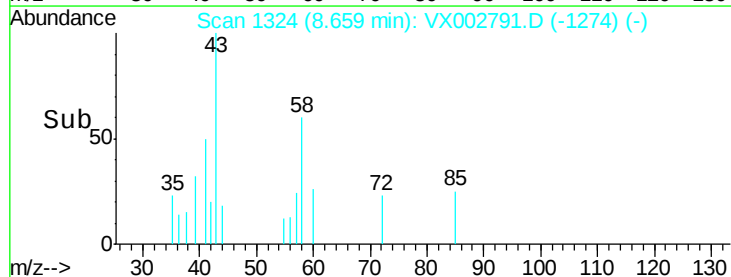
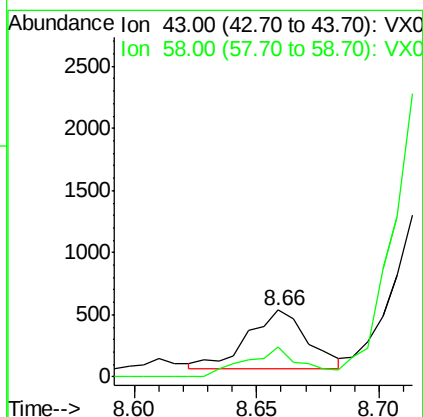
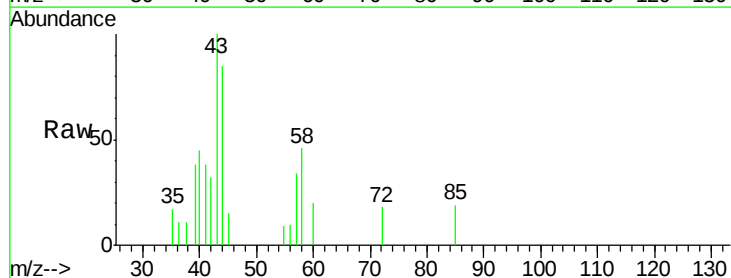
Instrument :
MSVOA_X
ClientSampleId :

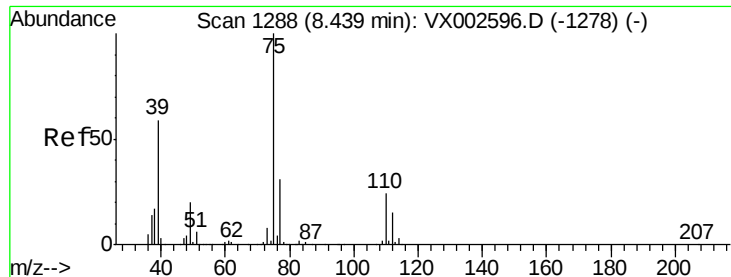
Tot Ion: 98 Resp: 446000
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.20 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002791.D
Acq: 21 Jun 2018 16:29

Tgt Ion: 43 Resp: 805
Ion Ratio Lower Upper
43 100
58 48.2 28.6 42.8#





#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.35 min Scan# 1273

Delta R.T. -0.09 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :

MSVOA_X

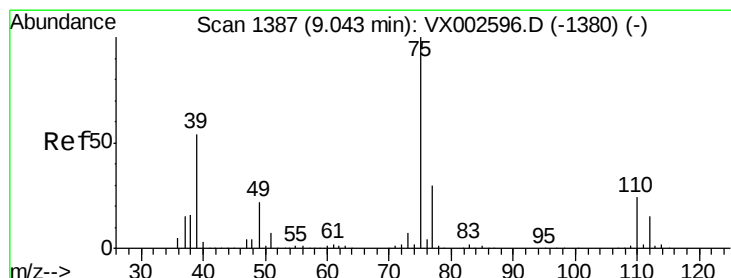
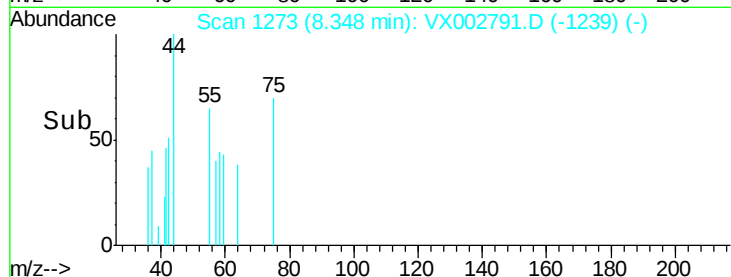
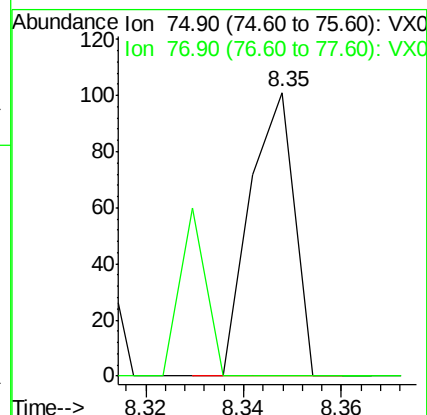
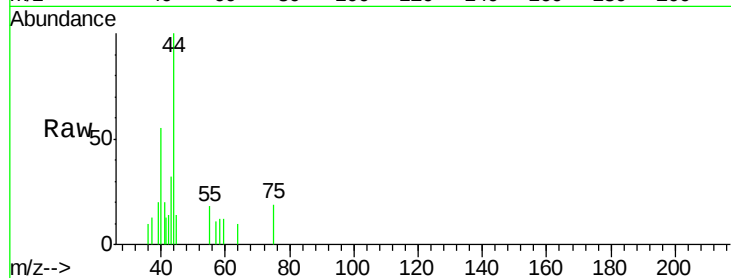
ClientSampled :

Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

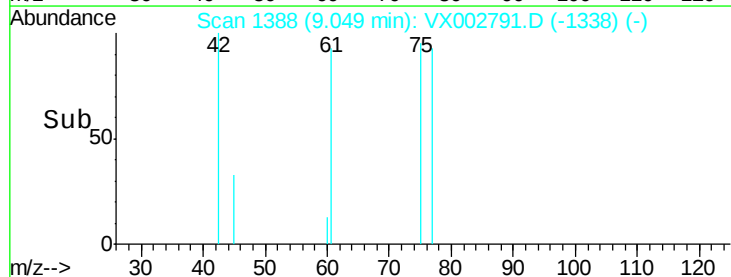
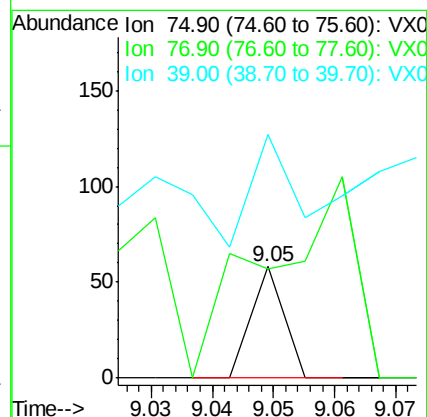
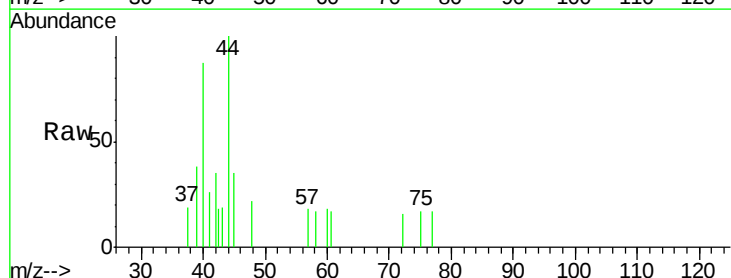
Tgt Ion: 75 Resp: 21

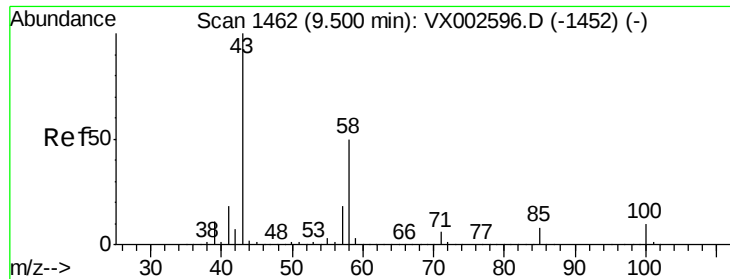
Ion Ratio Lower Upper

75 100

77 98.3 24.8 37.2#

39 55.2 42.4 63.6

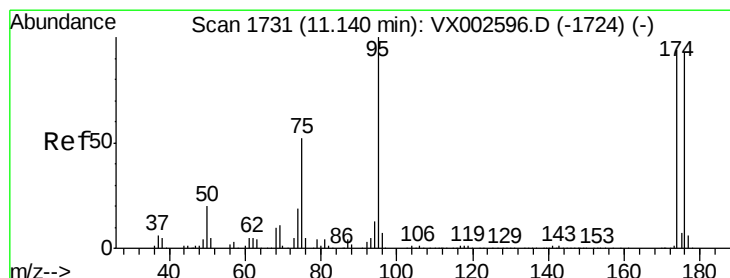
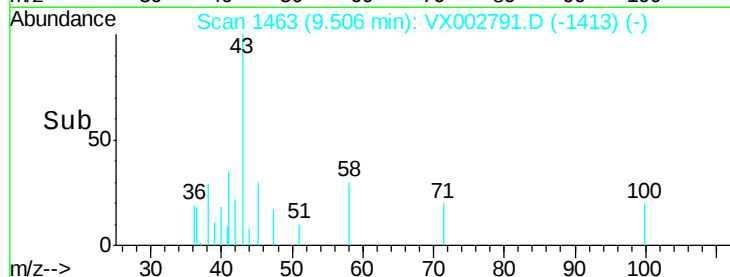
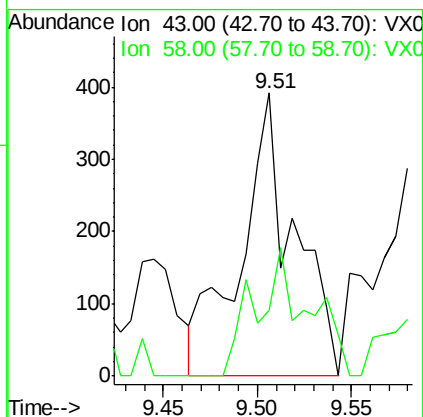
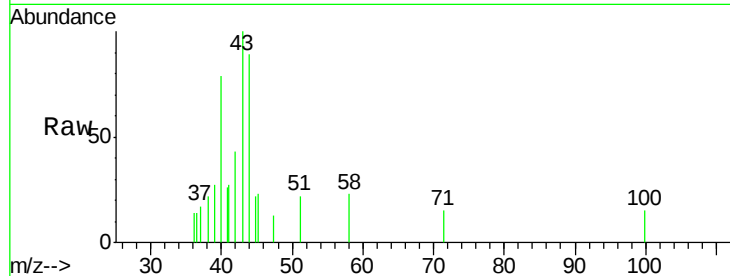




#59
2-Hexanone
Concen: 0.26 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VX002791.D
Acq: 21 Jun 2018 16:29

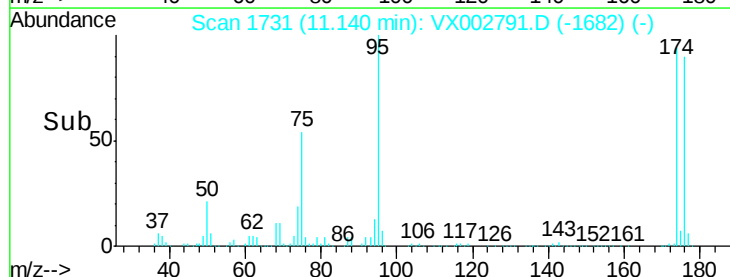
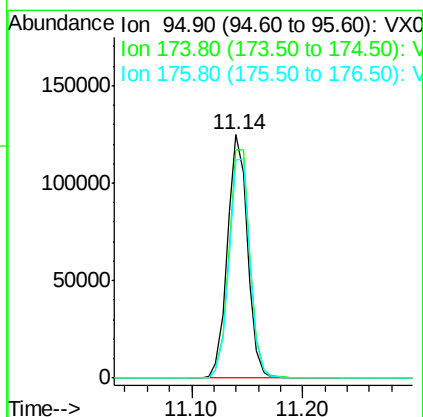
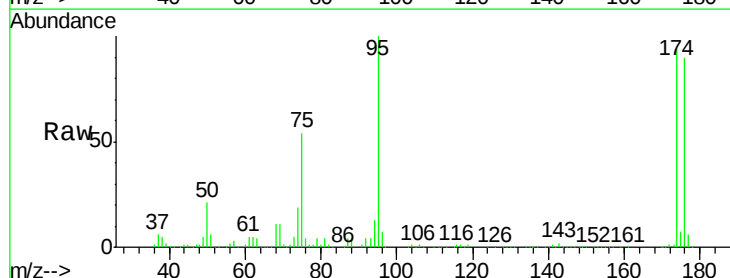
Instrument :
MSVOA_X
ClientSampleId :

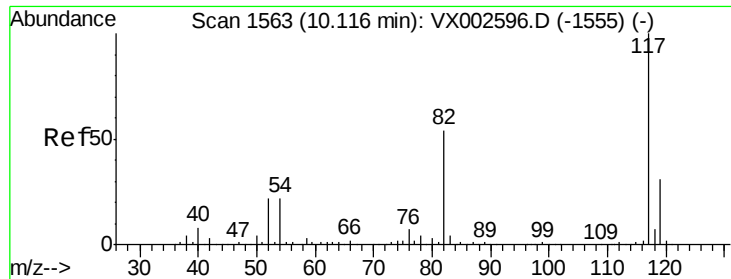
Tot Ion: 43 Resp: 773
Ion Ratio Lower Upper
43 100
58 36.9 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 43.07 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002791.D
Acq: 21 Jun 2018 16:29

Tgt Ion: 95 Resp: 155169
Ion Ratio Lower Upper
95 100
174 98.4 0.0 187.4
176 94.1 0.0 181.0

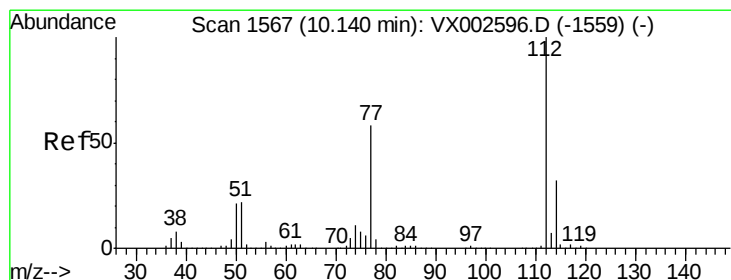
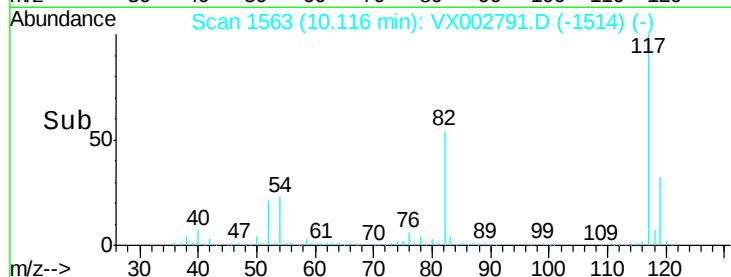
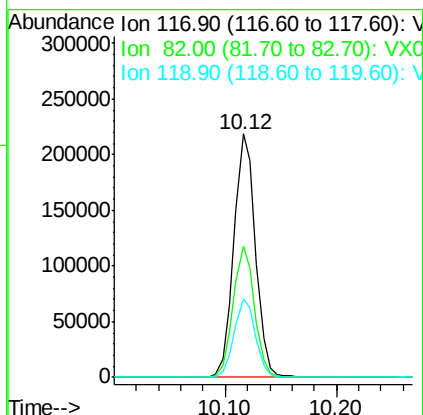
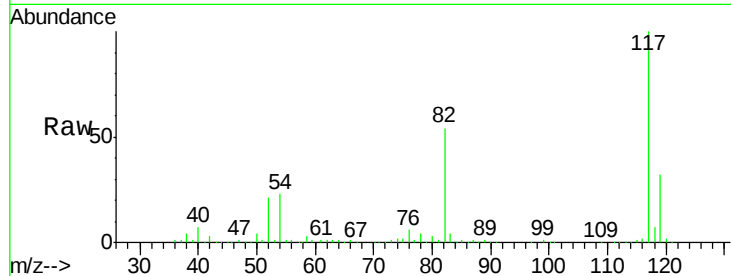




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002791.D
Acq: 21 Jun 2018 16:29

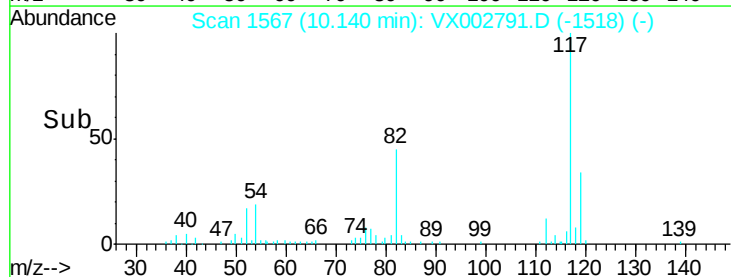
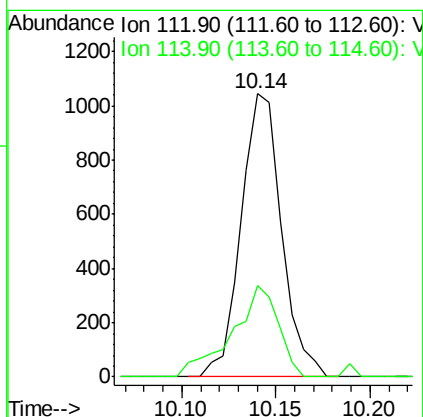
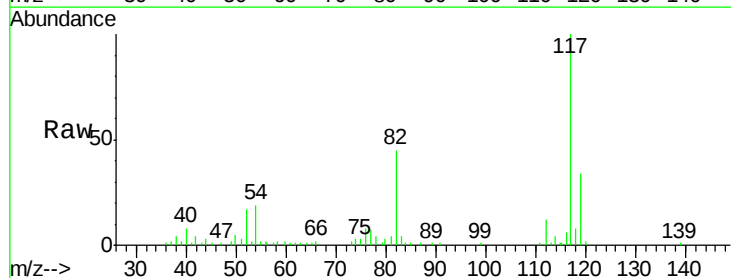
Instrument :
MSVOA_X
ClientSampled :

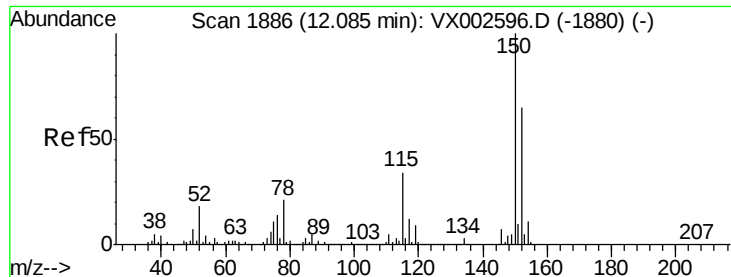
Tot Ion:117 Resp: 293270
Ion Ratio Lower Upper
117 100
82 53.9 45.0 67.4
119 32.1 25.8 38.6



#65
Chlorobenzene
Concen: 0.22 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002791.D
Acq: 21 Jun 2018 16:29

Tgt Ion:112 Resp: 1556
Ion Ratio Lower Upper
112 100
114 32.2 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

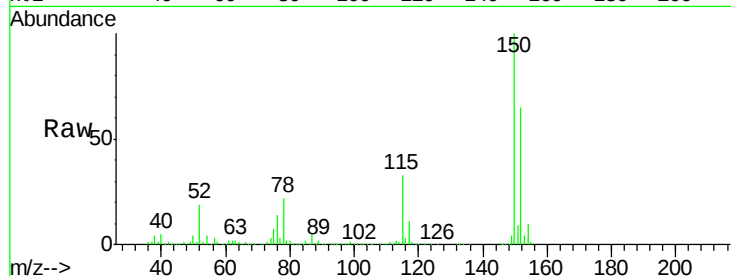
Tot Ion:152 Resp: 168698

Ion Ratio Lower Upper

152 100

115 53.0 40.1 120.2

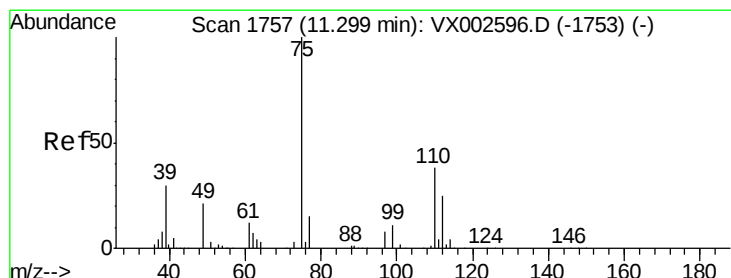
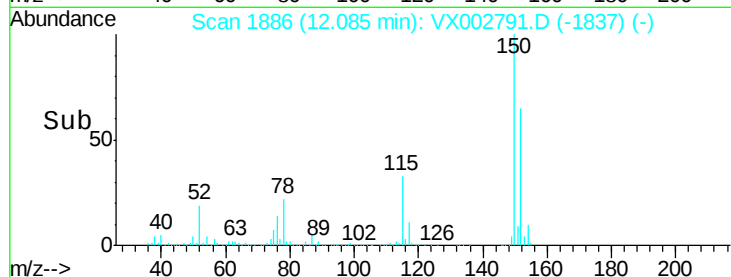
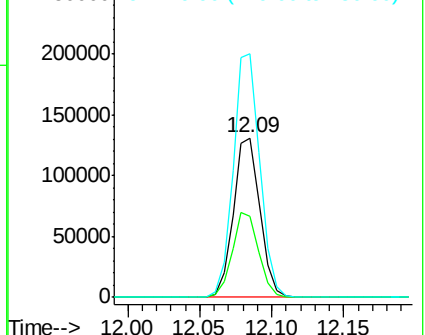
150 153.3 0.0 347.2



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: 26.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002791.D

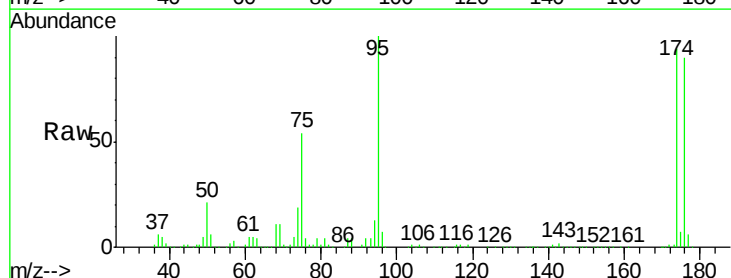
Acq: 21 Jun 2018 16:29

Tgt Ion: 75 Resp: 83016

Ion Ratio Lower Upper

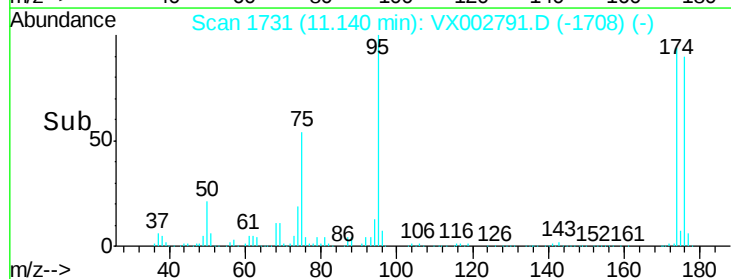
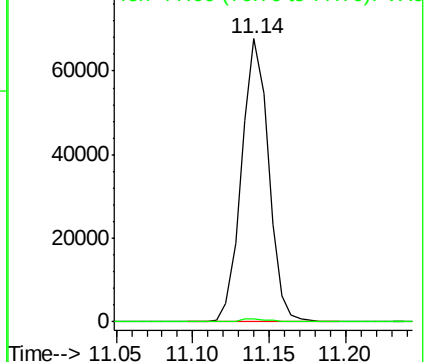
75 100

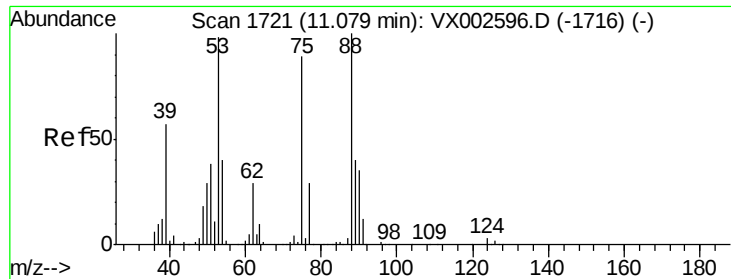
77 1.2 22.8 68.3#



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: 80.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002791.D

Acq: 21 Jun 2018 16:29

Instrument :

MSVOA_X

ClientSampleId :

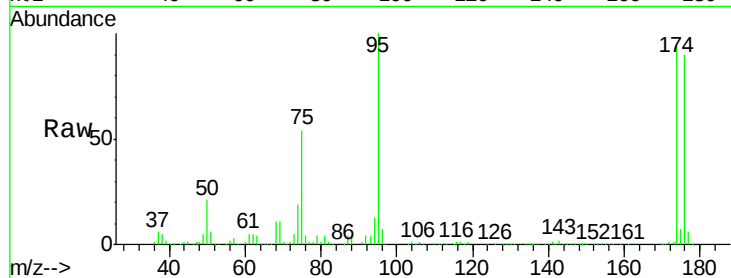
Tot Ion: 75 Resp: 83016

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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

