

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
 Data File : VX003035.D
 Acq On : 29 Jun 2018 18:04
 Operator : JC/MD
 Sample : J3695-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 29 23:29:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	263909	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	368235	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	339562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190219	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	173201	47.48	ug/l	0.00
Spiked Amount			Recovery	=	94.96%	
35) Dibromofluoromethane	5.51	113	139948	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
50) Toluene-d8	8.72	98	516023	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
62) 4-Bromofluorobenzene	11.14	95	179727	43.76	ug/l	0.00
Spiked Amount			Recovery	=	87.52%	

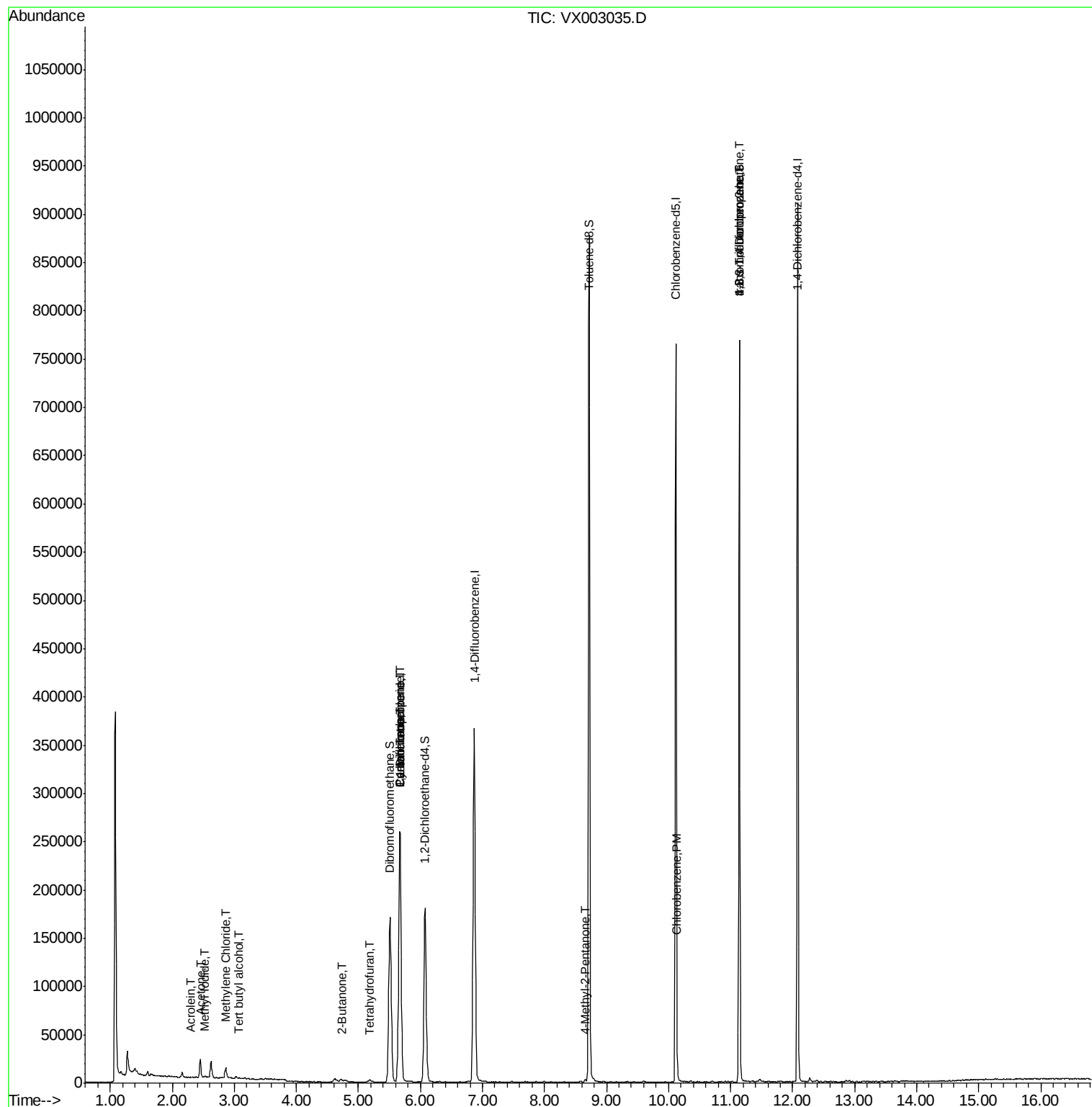
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	111	Below Cal	#	43
3) Chloromethane	1.32	50	771	Below Cal	#	53
5) Bromomethane	1.65	94	1811	Below Cal		93
6) Chloroethane	1.75	64	847	Below Cal	#	43
10) Methyl Iodide	2.52	142	1643	6.71	ug/l	# 98
11) Tert butyl alcohol	3.07	59	372	0.51	ug/l	# 88
13) Acrolein	2.29	56	75	4.41	ug/l	# 6
16) Acetone	2.45	43	20712	13.71	ug/l	98
20) Methylene Chloride	2.86	84	4909	1.67	ug/l	92
25) 2-Butanone	4.73	43	4486	2.00	ug/l	# 85
29) Tetrahydrofuran	5.18	42	2262	1.57	ug/l	# 36
31) Cyclohexane	5.66	56	5107	1.12	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17776	4.40	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23415	5.28	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.66	43	1901	0.42	ug/l	# 86
65) Chlorobenzene	10.14	112	2242	0.26	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	92824	26.94	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92824	76.27	ug/l	# 7

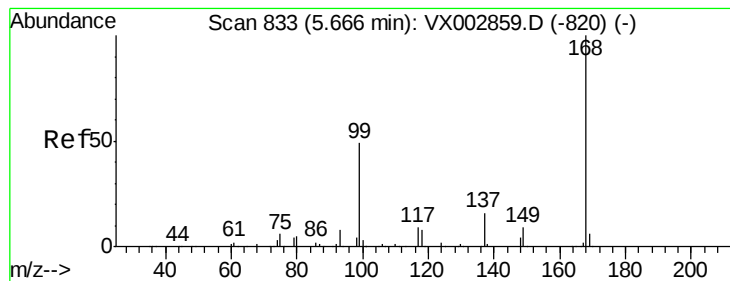
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

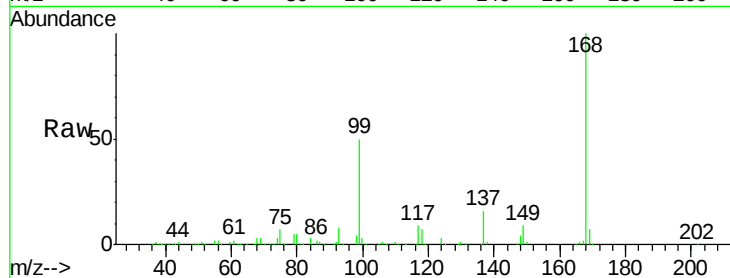
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 263909

Ion Ratio Lower Upper

168 100

99 49.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

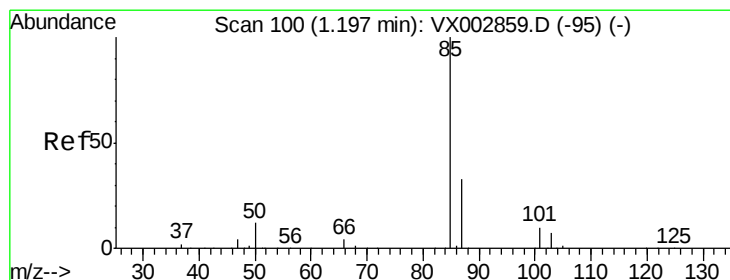
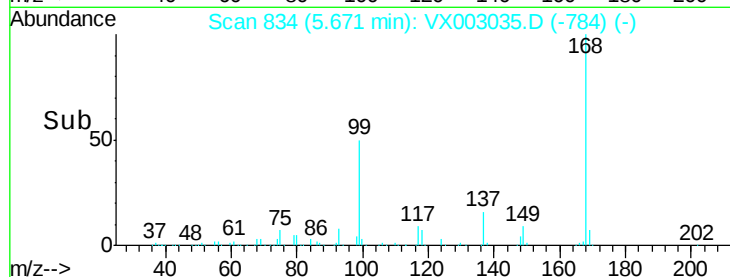
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003035.D

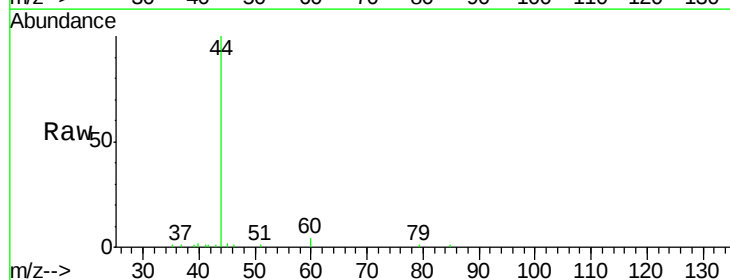
Acq: 29 Jun 2018 18:04

Tgt Ion: 85 Resp: 111

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

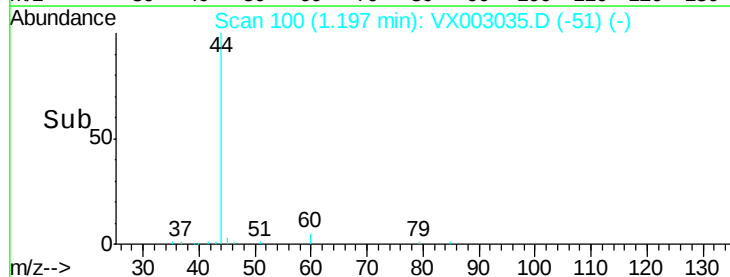
60

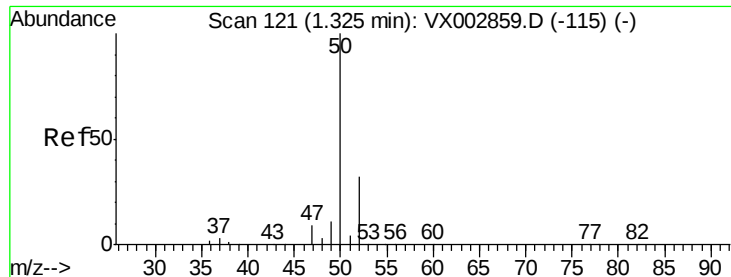
40

20

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA_X

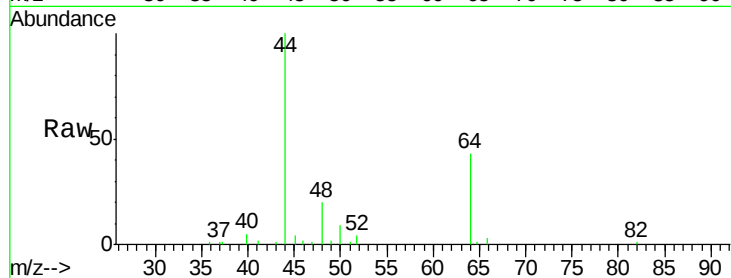
ClientSampleId :

Tot Ion: 50 Resp: 771

Ion Ratio Lower Upper

50 100

52 58.4 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

200

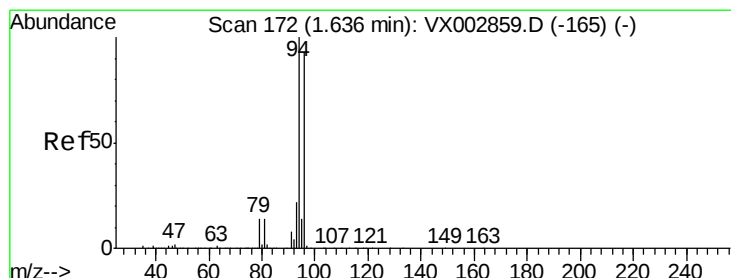
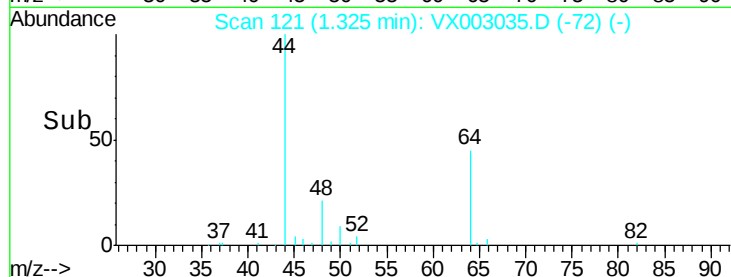
100

0

1.30

1.35

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003035.D

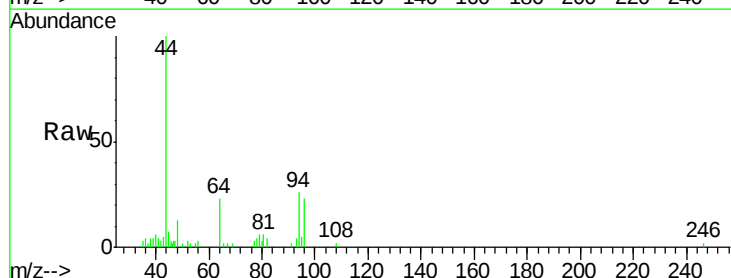
Acq: 29 Jun 2018 18:04

Tgt Ion: 94 Resp: 1811

Ion Ratio Lower Upper

94 100

96 87.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

600

400

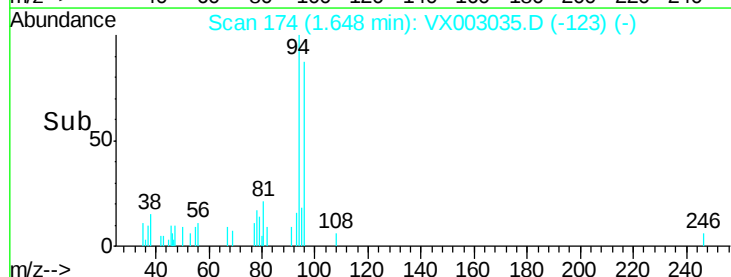
200

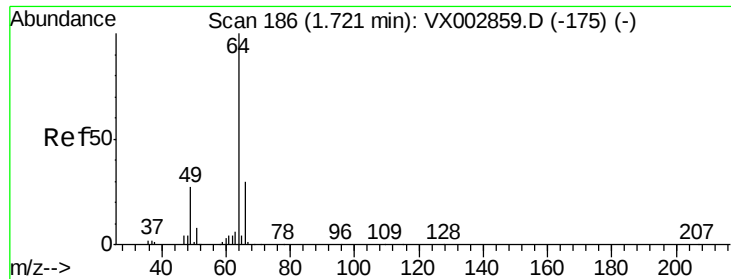
0

1.60

1.70

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 191

Delta R.T. 0.03 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA_X

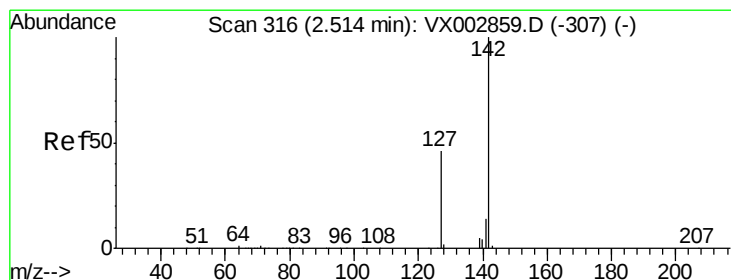
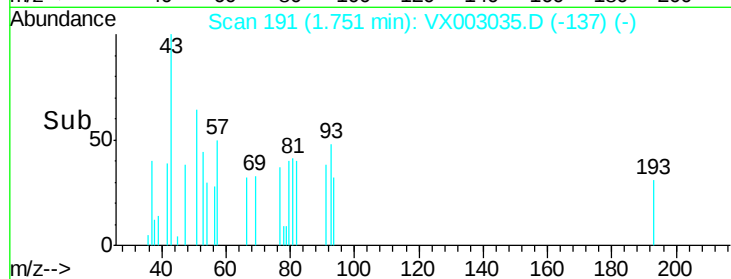
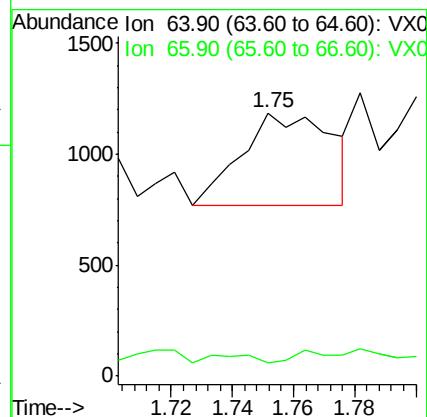
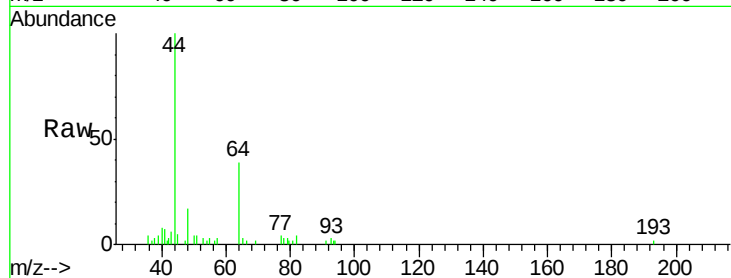
ClientSampleId :

Tot Ion: 64 Resp: 847

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#10

Methyl Iodide

Concen: 6.71 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

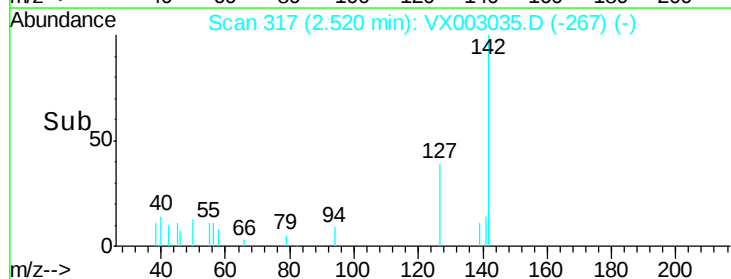
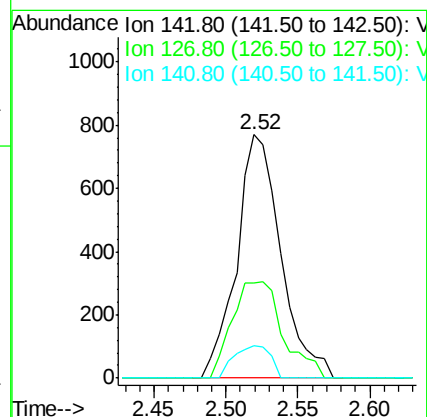
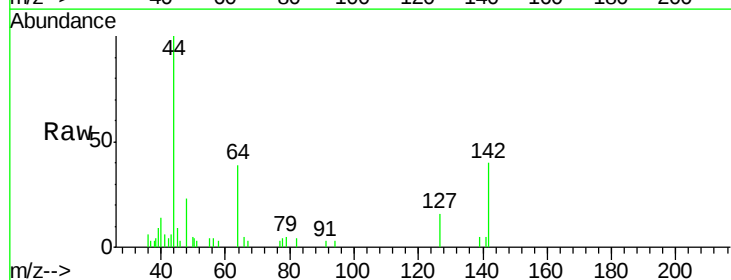
Tgt Ion:142 Resp: 1643

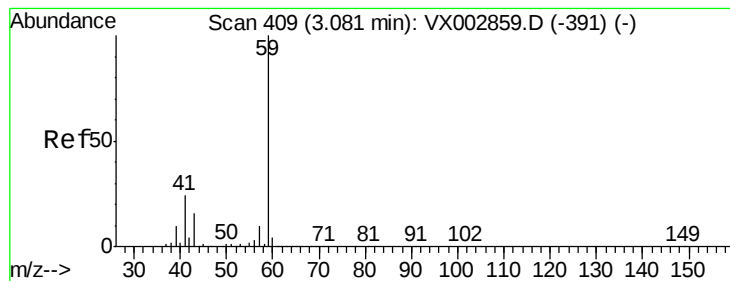
Ion Ratio Lower Upper

142 100

127 45.6 36.6 55.0

141 11.1 11.3 16.9#



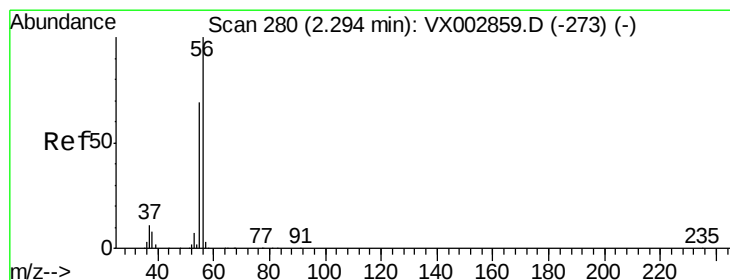
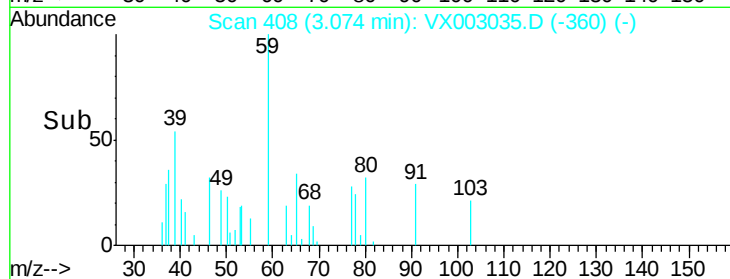
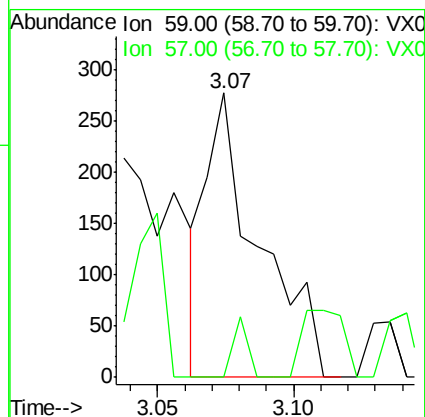
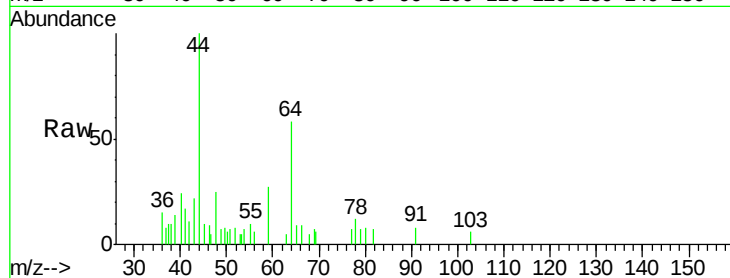


#11

Tert butyl alcohol
Concen: 0.51 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003035.D
Acq: 29 Jun 2018 18:04

Instrument :
MSVOA_X
ClientSampled :

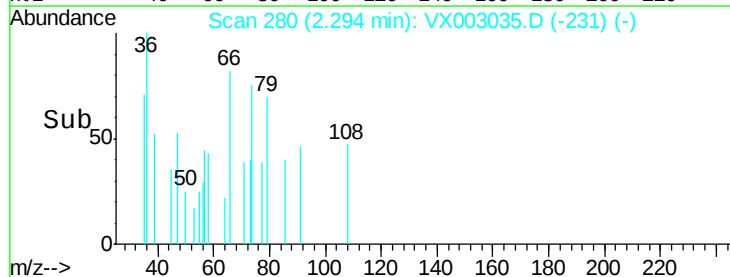
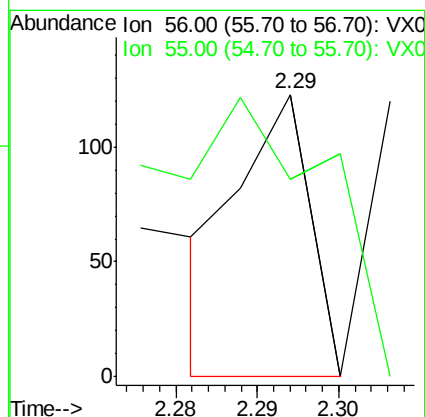
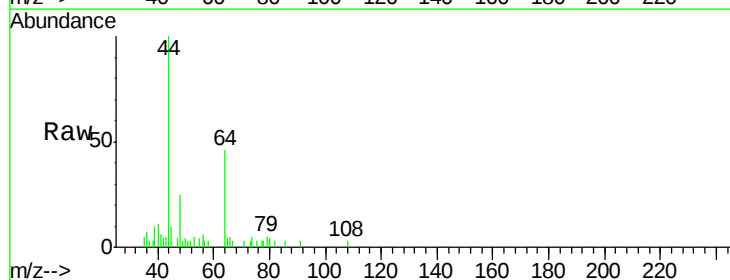
Tot Ion: 59 Resp: 372
Ion Ratio Lower Upper
59 100
57 5.6 8.2 12.2#

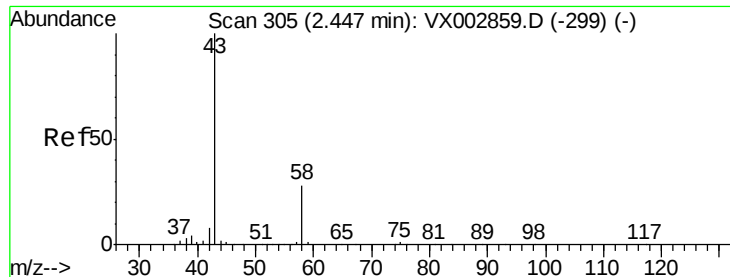


#13

Acrolein
Concen: 4.41 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX003035.D
Acq: 29 Jun 2018 18:04

Tgt Ion: 56 Resp: 75
Ion Ratio Lower Upper
56 100
55 149.3 57.0 85.4#





#16

Acetone

Concen: 13.71 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA_X

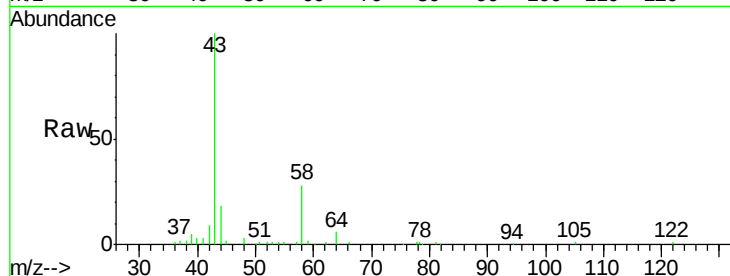
ClientSampleId :

Tot Ion: 43 Resp: 20712

Ion Ratio Lower Upper

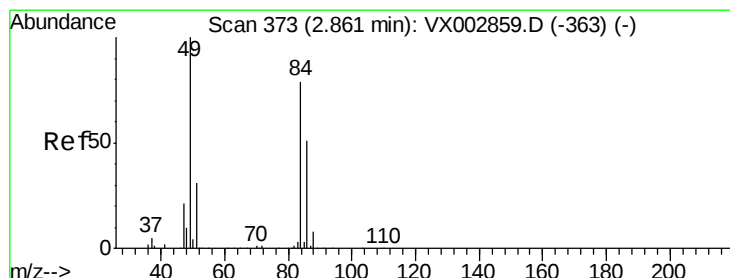
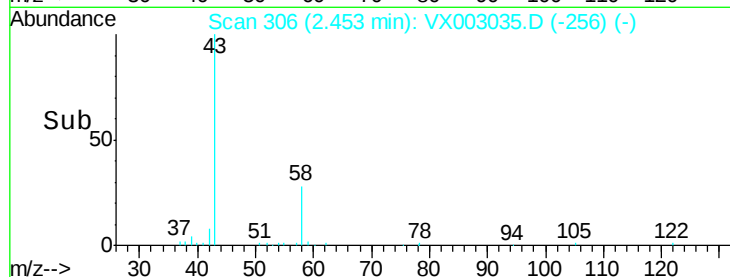
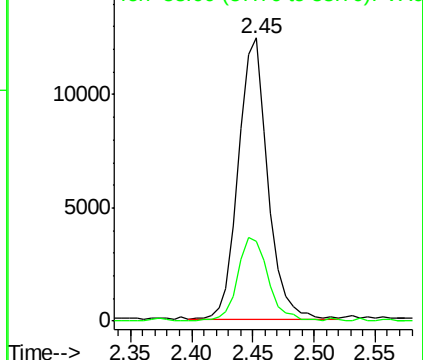
43 100

58 28.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 1.67 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

Tgt Ion: 84 Resp: 4909

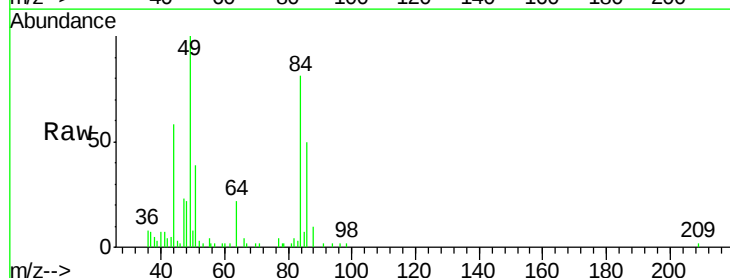
Ion Ratio Lower Upper

84 100

49 123.1 107.8 161.6

51 45.6 32.8 49.2

86 61.1 52.5 78.7

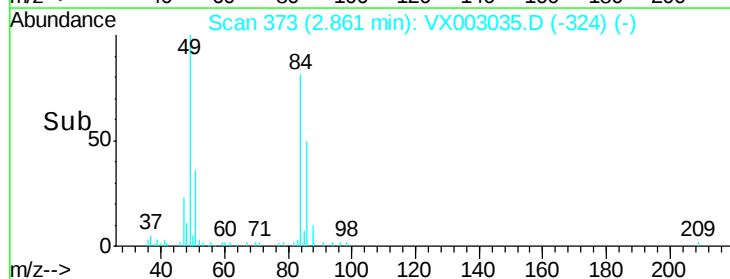
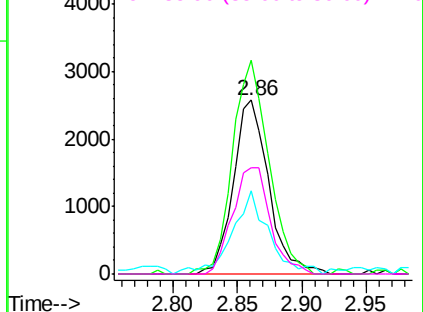


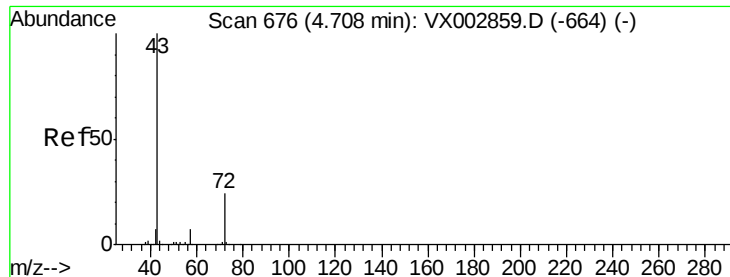
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 2.00 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.02 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA_X

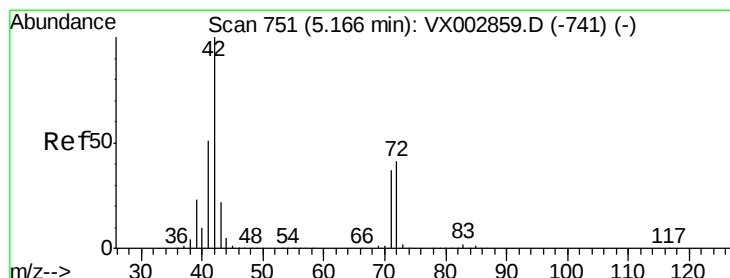
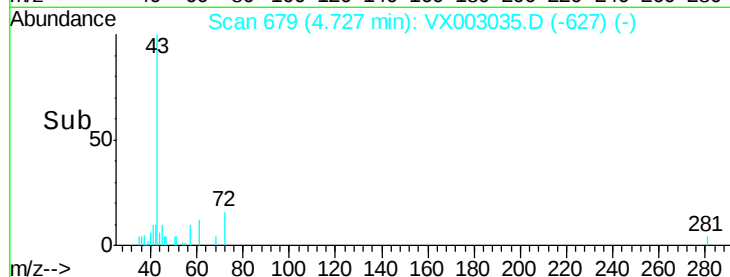
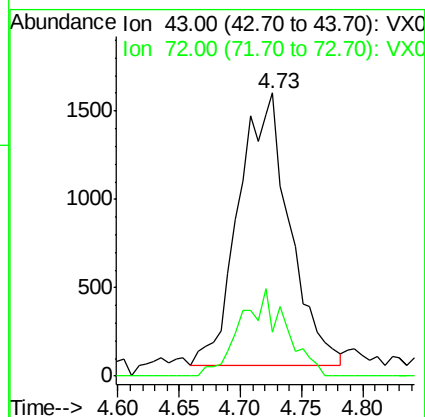
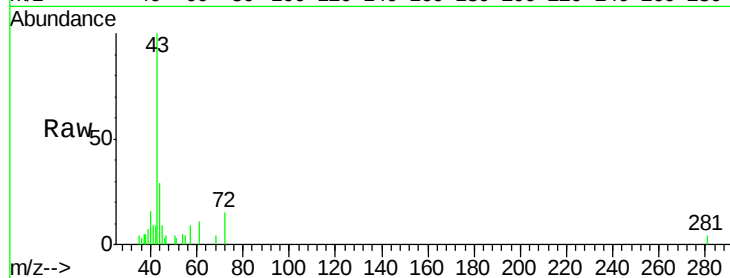
ClientSampleId :

Tot Ion: 43 Resp: 4486

Ion Ratio Lower Upper

43 100

72 16.0 18.5 27.7#



#29

Tetrahydrofuran

Concen: 1.57 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

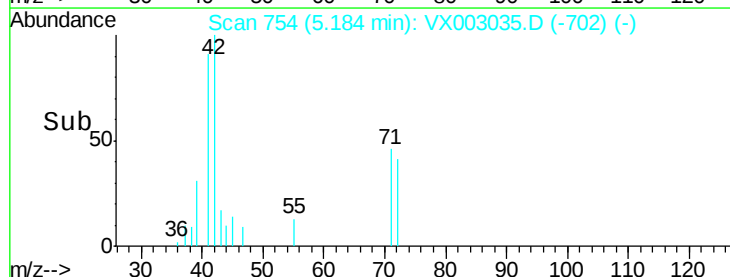
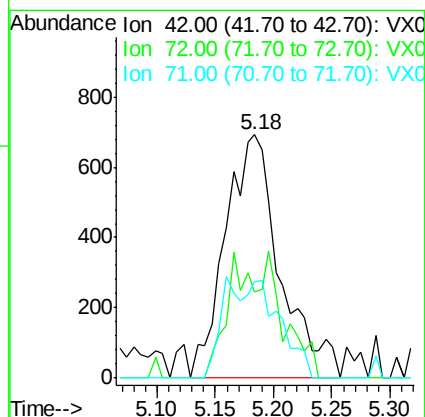
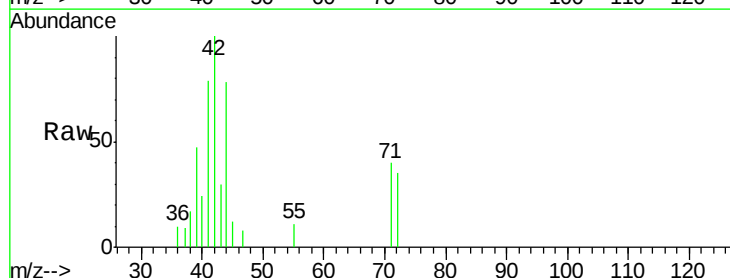
Tgt Ion: 42 Resp: 2262

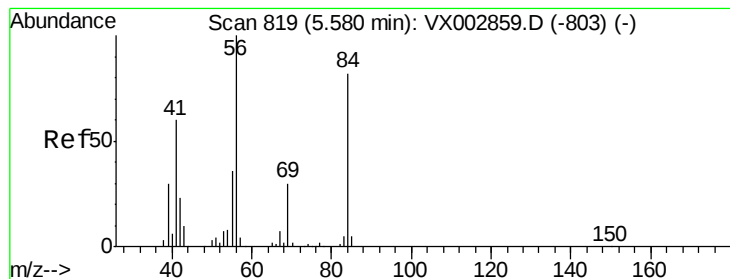
Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

71 0.0 30.1 45.1#





#31

Cyclohexane

Concen: 1.12 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampled :

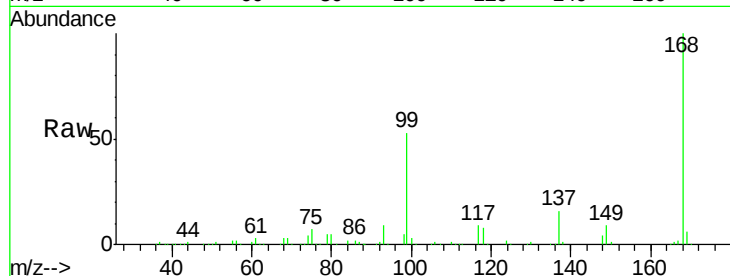
Tot Ion: 56 Resp: 5107

Ion Ratio Lower Upper

56 100

69 159.7 23.7 35.5#

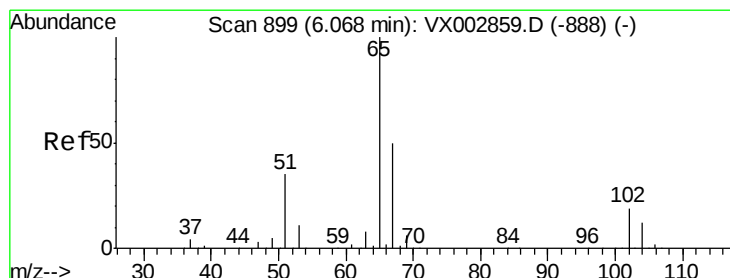
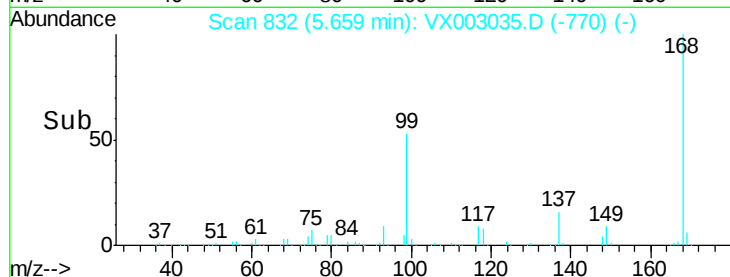
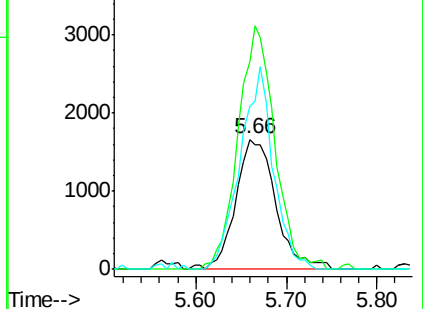
84 124.9 64.1 96.1#



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: 47.48 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003035.D

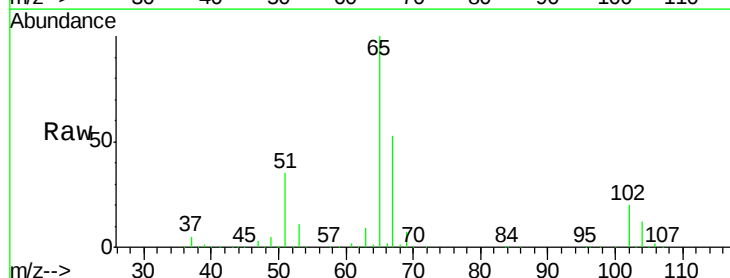
Acq: 29 Jun 2018 18:04

Tgt Ion: 65 Resp: 173201

Ion Ratio Lower Upper

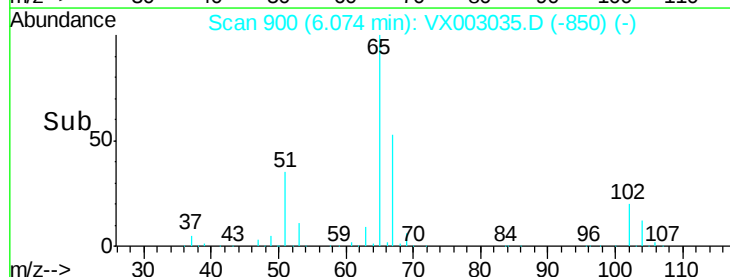
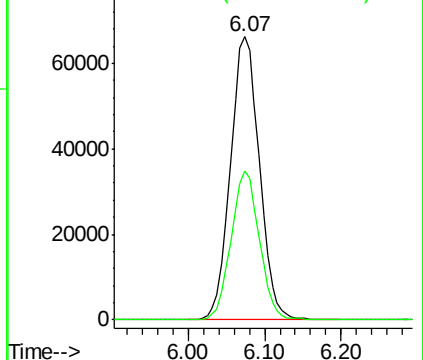
65 100

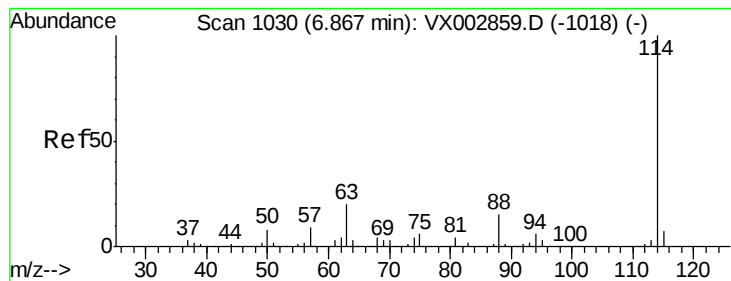
67 51.3 0.0 102.6



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: VX003035.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

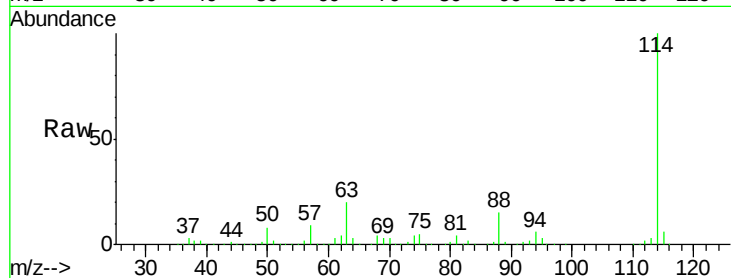
Tot Ion:114 Resp: 368235

Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.4

88 15.1 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

6.87

200000

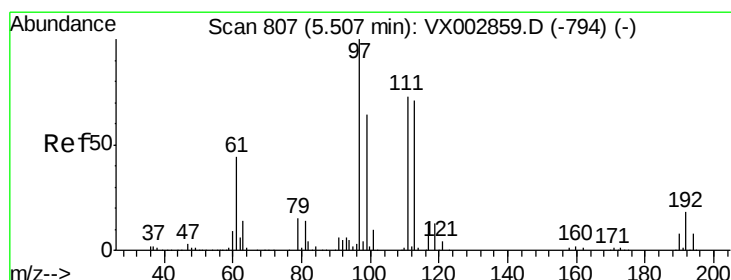
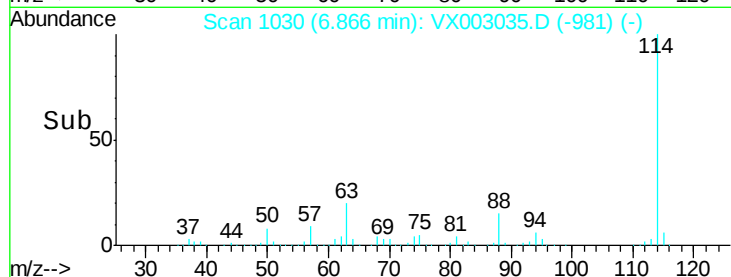
150000

100000

50000

0

Time-->



#35

Dibromofluoromethane

Concen: 47.99 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

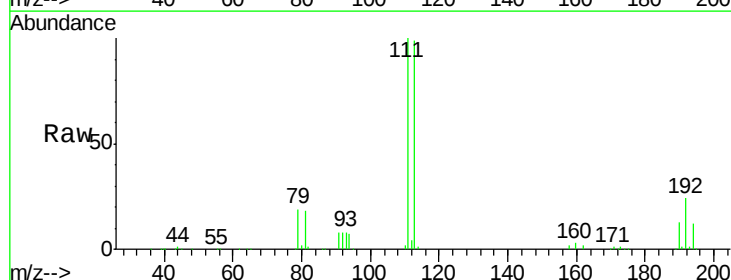
Tgt Ion:113 Resp: 139948

Ion Ratio Lower Upper

113 100

111 103.6 81.4 122.0

192 24.7 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

5.51

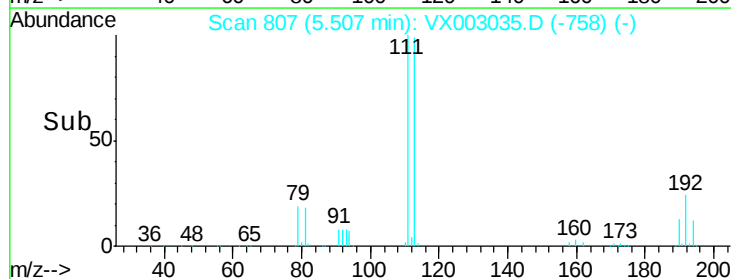
60000

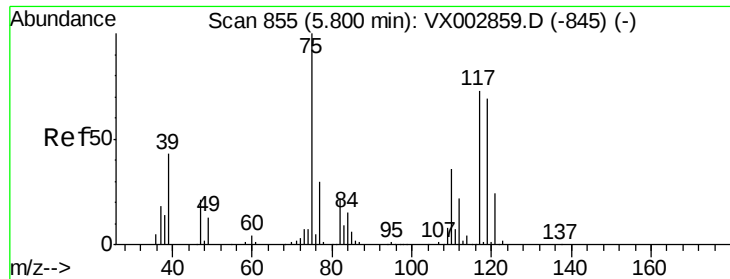
40000

20000

0

Time-->





#36

1,1-Dichloropropene

Concen: 4.40 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

Instrument :
MSVOA_X
ClientSampled :

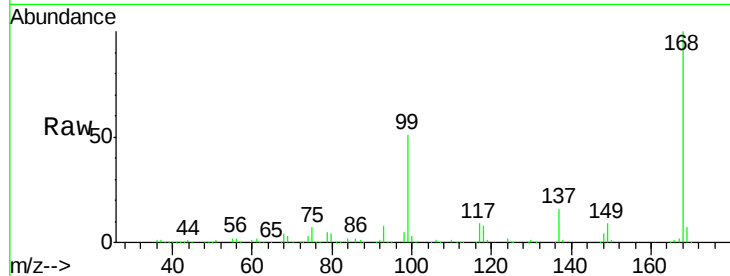
Tot Ion: 75 Resp: 17776

Ion Ratio Lower Upper

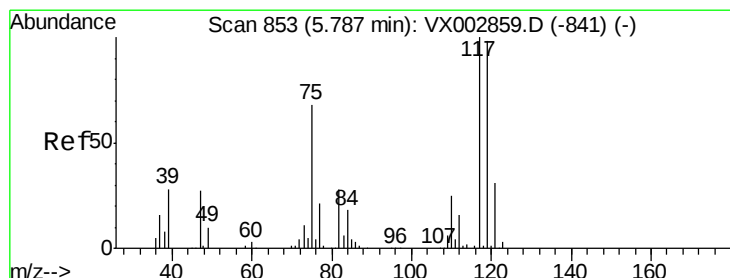
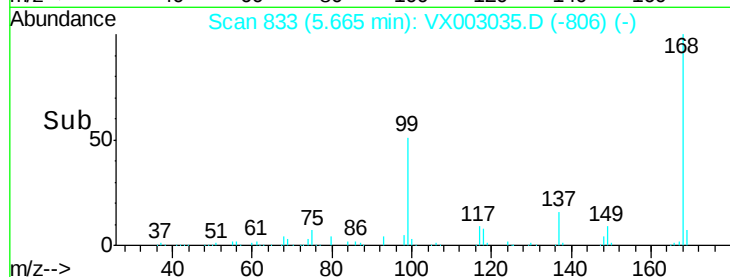
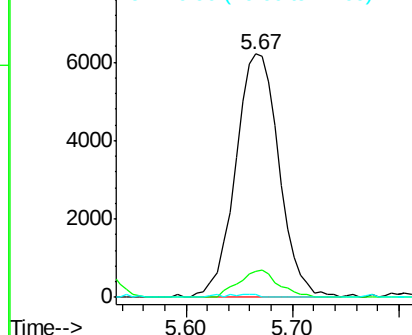
75 100

110 10.4 18.1 54.4#

77 0.7 24.3 36.5#



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: 5.28 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

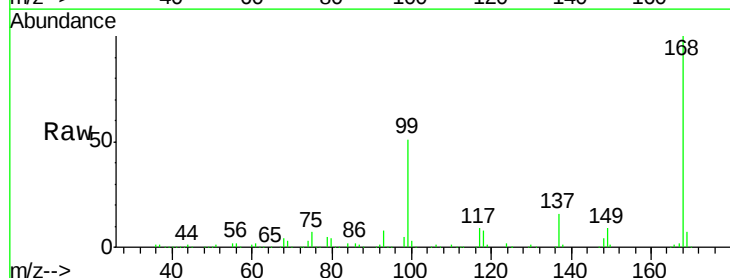
Tgt Ion: 117 Resp: 23415

Ion Ratio Lower Upper

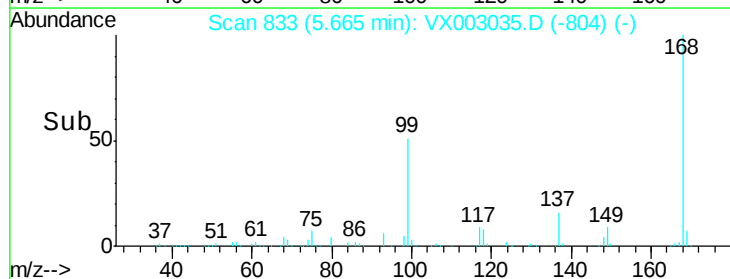
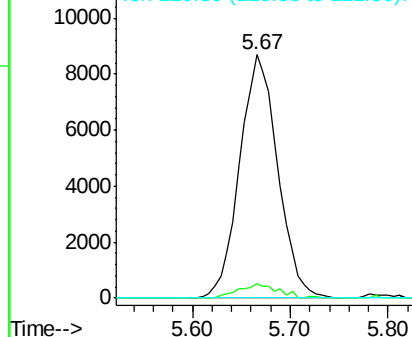
117 100

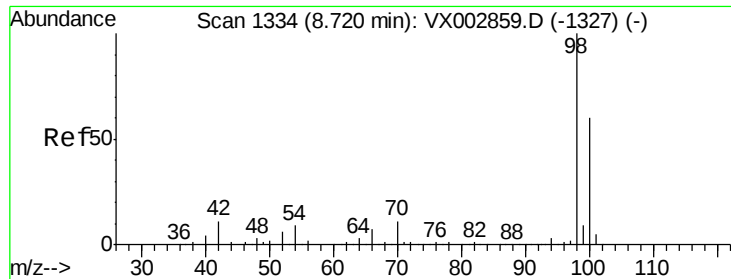
119 6.0 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

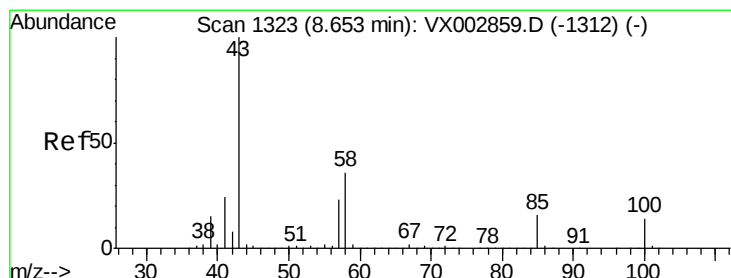
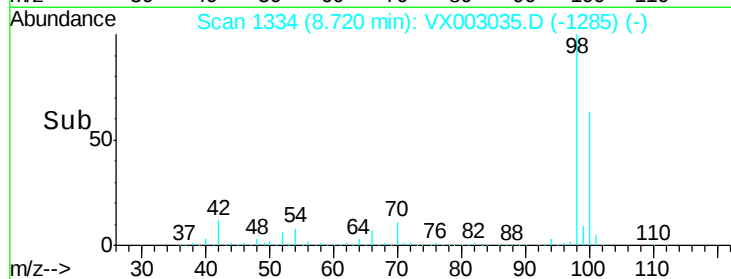
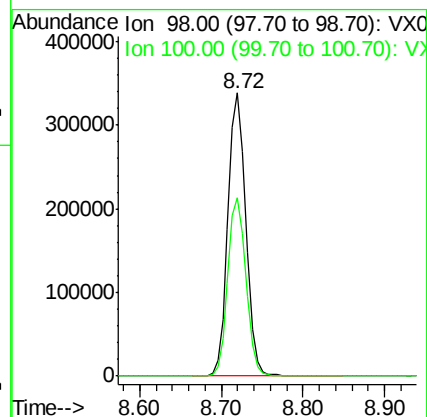
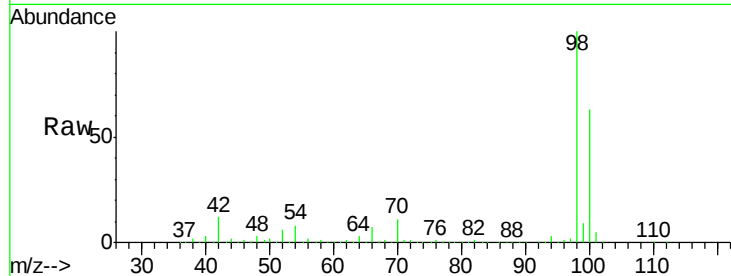




#50
Toluene-d8
Concen: 48.46 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003035.D
Acq: 29 Jun 2018 18:04

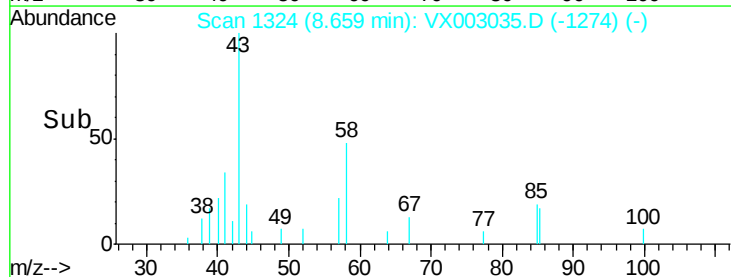
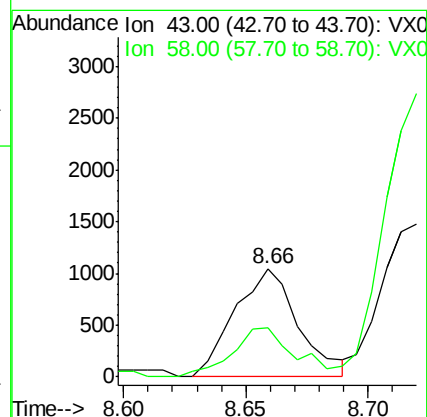
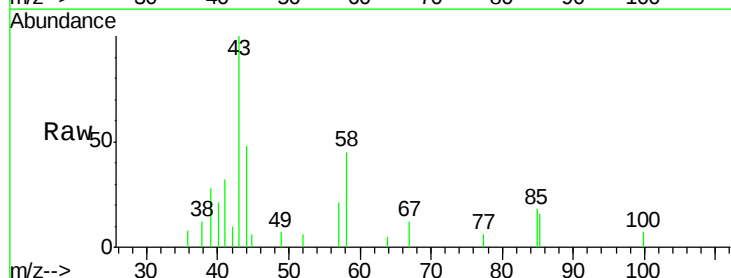
Instrument :
MSVOA_X
ClientSampleId :

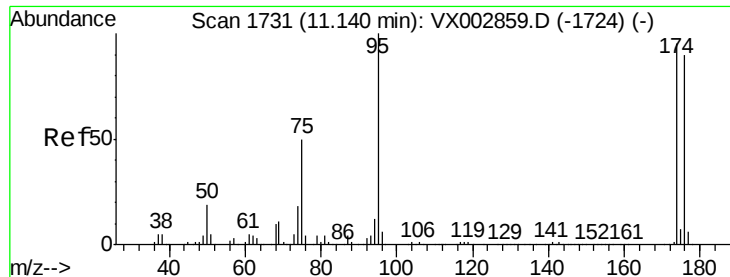
Tot Ion: 98 Resp: 516023
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.42 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX003035.D
Acq: 29 Jun 2018 18:04

Tgt Ion: 43 Resp: 1901
Ion Ratio Lower Upper
43 100
58 43.9 28.6 42.8#

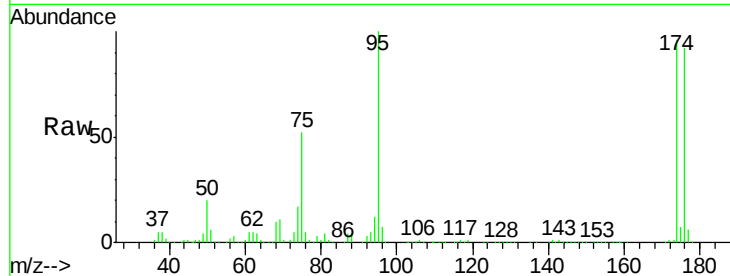




#62
4-Bromofluorobenzene
Concen: 43.76 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003035.D
Acq: 29 Jun 2018 18:04

Instrument :
MSVOA_X
ClientSampleId :

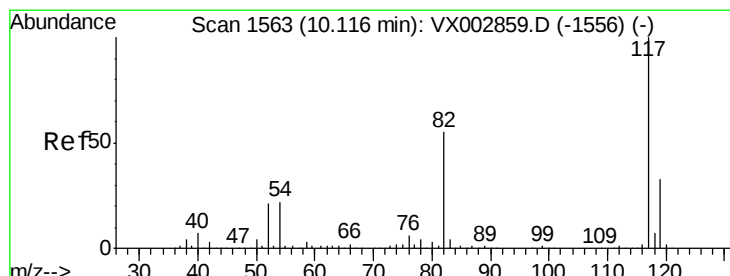
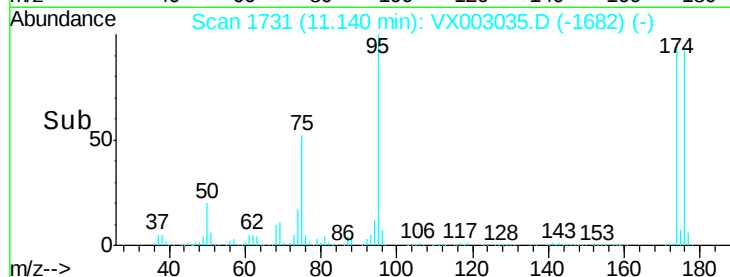
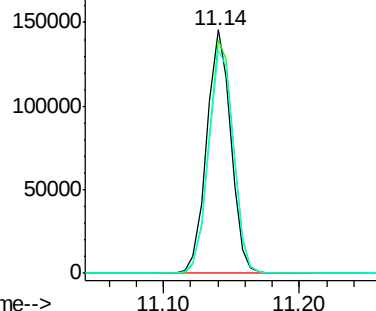
Tot Ion	95	Resp	179727
Ion	Ratio	Lower	Upper
95	100		
174	98.0	0.0	187.4
176	94.4	0.0	181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

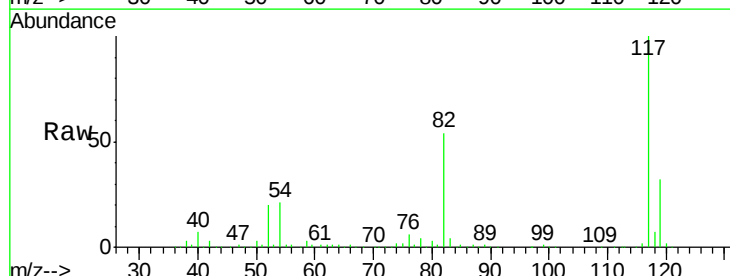
Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003035.D
Acq: 29 Jun 2018 18:04

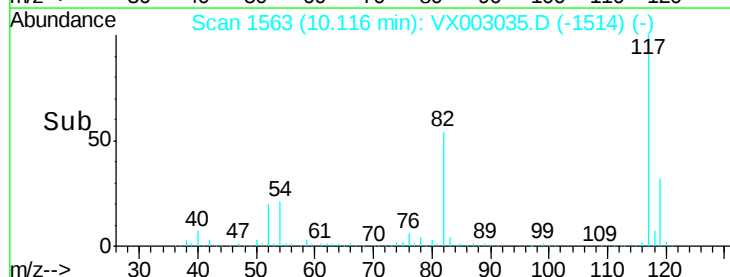
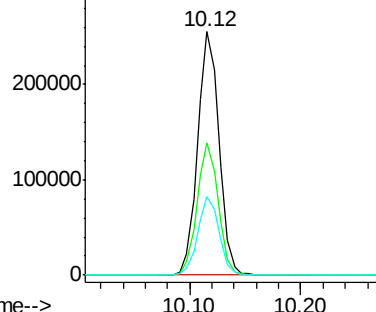
Tgt Ion	117	Resp	339562
Ion	Ratio	Lower	Upper
117	100		
82	54.2	45.0	67.4
119	32.3	25.8	38.6

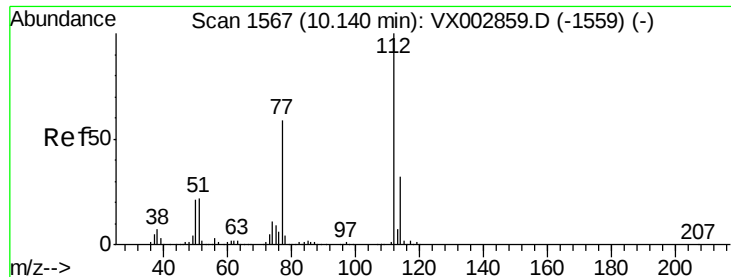


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)





#65

Chlorobenzene

Concen: 0.26 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

Instrument :

MSVOA_X

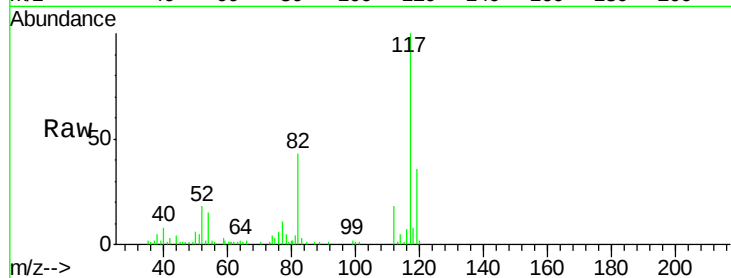
ClientSampleId :

Tot Ion:112 Resp: 2242

Ion Ratio Lower Upper

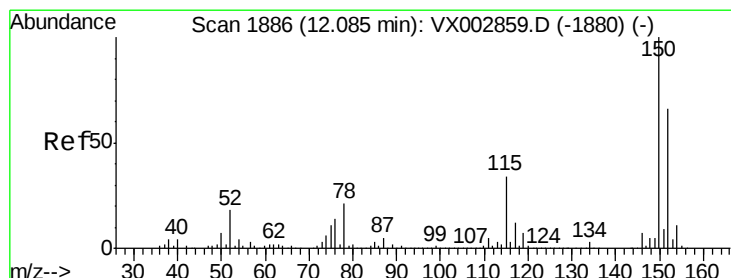
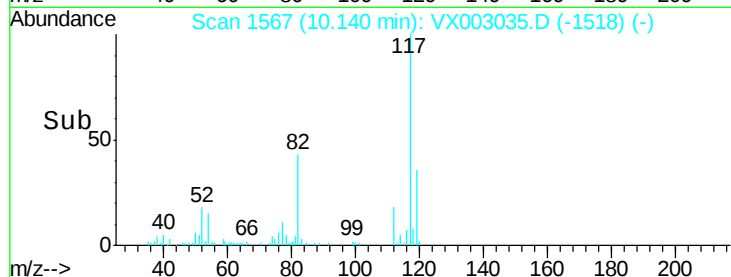
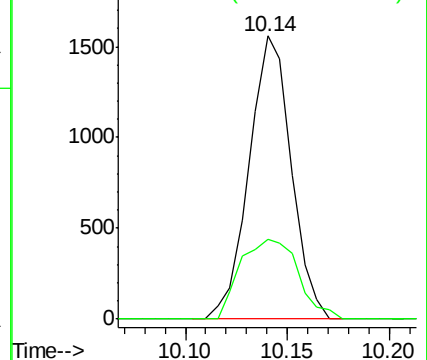
112 100

114 28.4 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003035.D

Acq: 29 Jun 2018 18:04

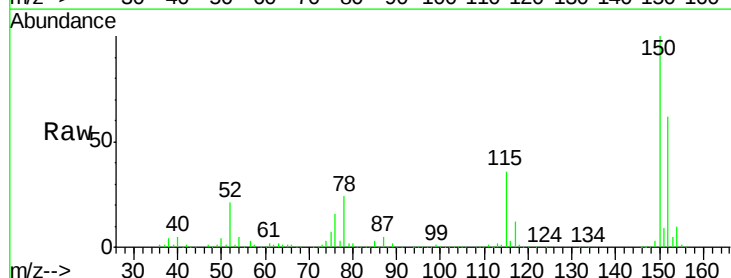
Tgt Ion:152 Resp: 190219

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

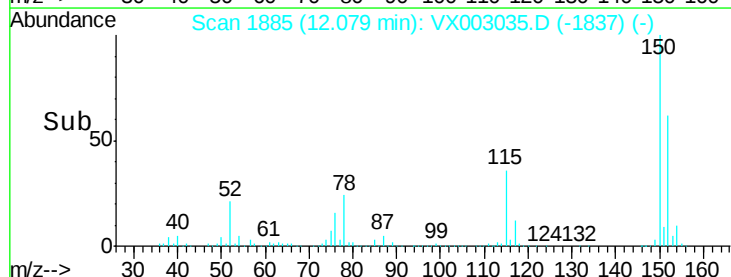
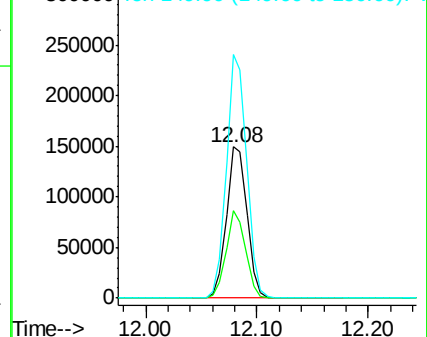
150 158.6 0.0 347.2

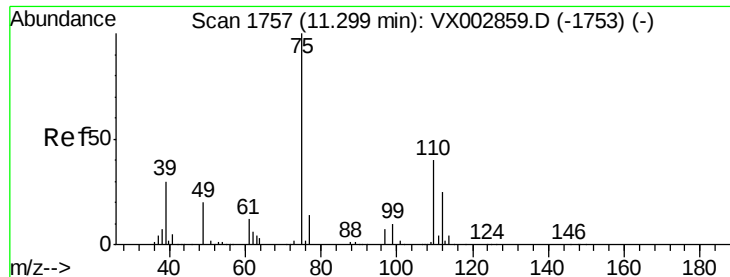


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

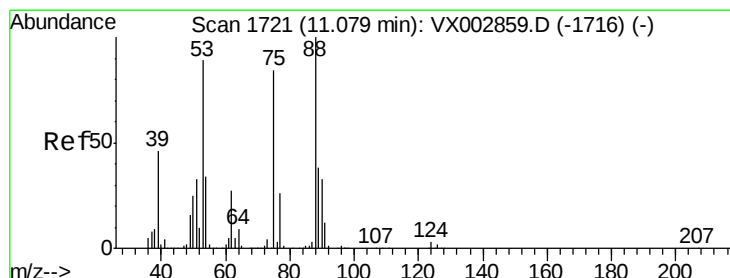
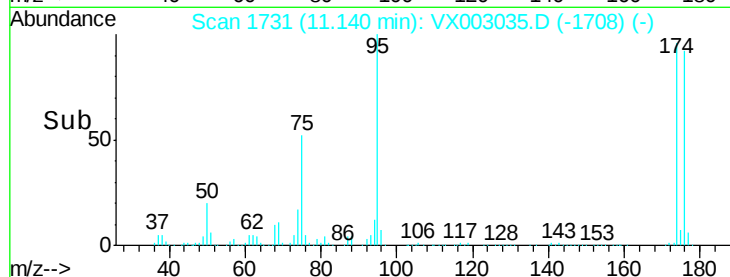
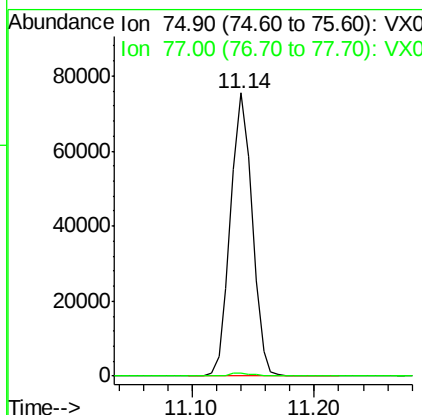
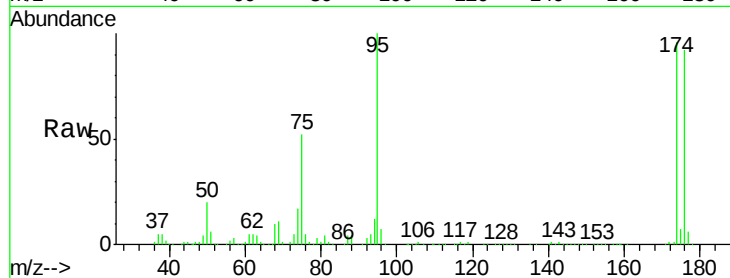




#76
 1,2,3-Trichloropropane
 Concen: 26.94 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003035.D
 Acq: 29 Jun 2018 18:04

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 92824
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.27 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003035.D
 Acq: 29 Jun 2018 18:04

Tgt Ion: 75 Resp: 92824
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

