

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062718\
 Data File : VX002968.D
 Acq On : 28 Jun 2018 06:11
 Operator : JC/MD
 Sample : J3718-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 06:52:56 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	272064	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	382627	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	356075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204641	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	183928	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
35) Dibromofluoromethane	5.51	113	149380	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
50) Toluene-d8	8.72	98	534912	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
62) 4-Bromofluorobenzene	11.14	95	195170	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

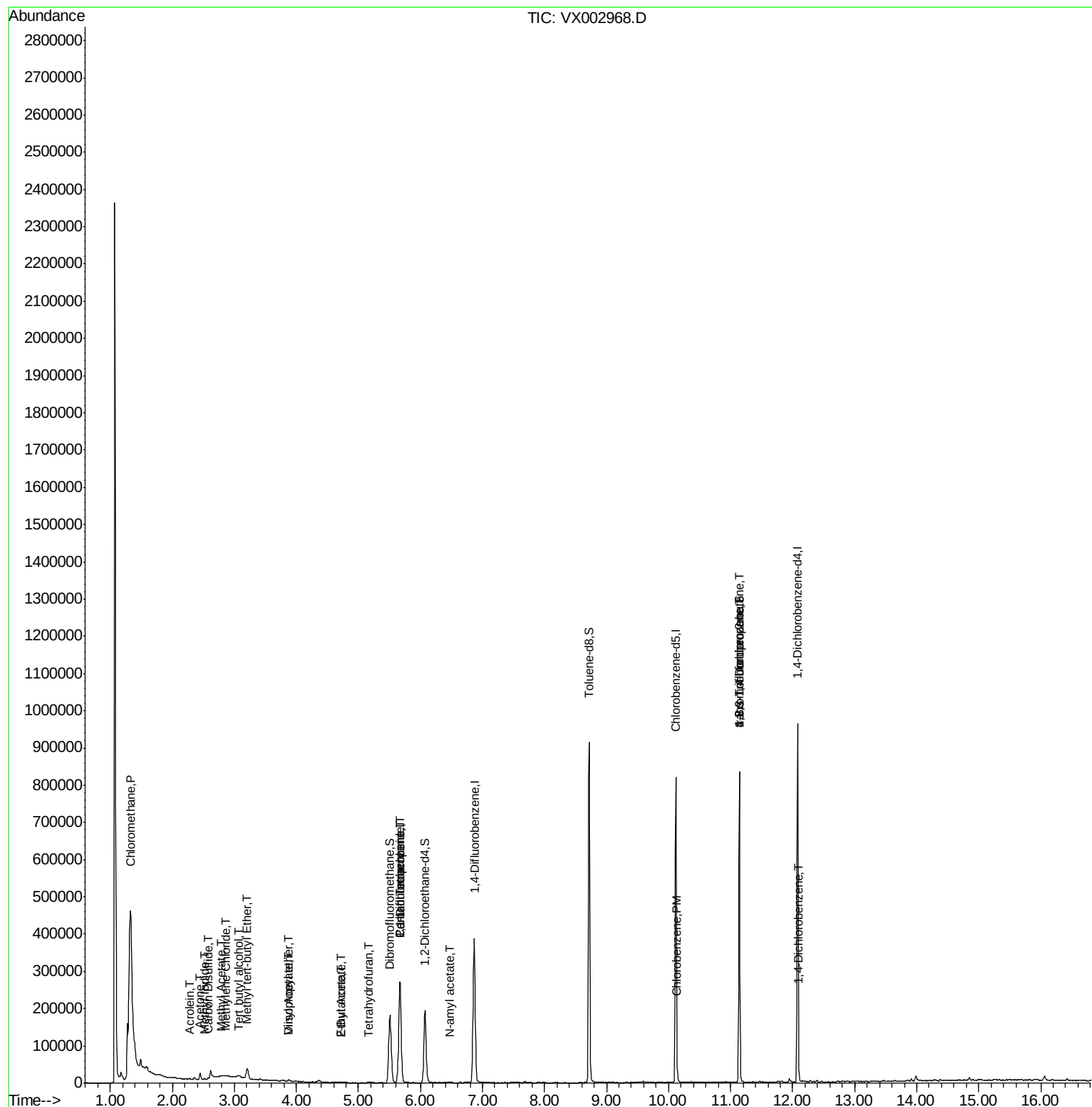
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	26940	9.72	ug/l	# 48
5) Bromomethane	1.66	94	1481	Below	Cal	83
10) Methyl Iodide	2.52	142	2608	6.97	ug/l	# 95
11) Tert butyl alcohol	3.07	59	4692	6.26	ug/l	96
13) Acrolein	2.29	56	254	4.83	ug/l	# 14
16) Acetone	2.45	43	19146	12.29	ug/l	99
17) Carbon Disulfide	2.57	76	7064	0.99	ug/l	# 94
18) Methyl Acetate	2.78	43	995	0.23	ug/l	# 68
19) Methyl tert-butyl Ether	3.21	73	31229	3.24	ug/l	96
20) Methylene Chloride	2.86	84	773	0.26	ug/l	# 74
22) Diisopropyl ether	3.87	45	6036	0.60	ug/l	93
23) Vinyl Acetate	3.87	43	3437	0.40	ug/l	# 75
25) 2-Butanone	4.71	43	3707	1.60	ug/l	91
29) Tetrahydrofuran	5.17	42	3378	2.28	ug/l	# 40
36) 1,1-Dichloropropene	5.67	75	18278	4.36	ug/l	# 51
37) Ethyl Acetate	4.71	43	3707	0.82	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	24981	5.43	ug/l	# 15
65) Chlorobenzene	10.14	112	7410	0.82	ug/l	94
74) N-amyl acetate	6.48	43	1384	0.21	ug/l	# 63
76) 1,2,3-Trichloropropane	11.14	75	99665	26.89	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	99665	76.13	ug/l	# 7
88) 1,4-Dichlorobenzene	12.10	146	2355	0.32	ug/l	# 2

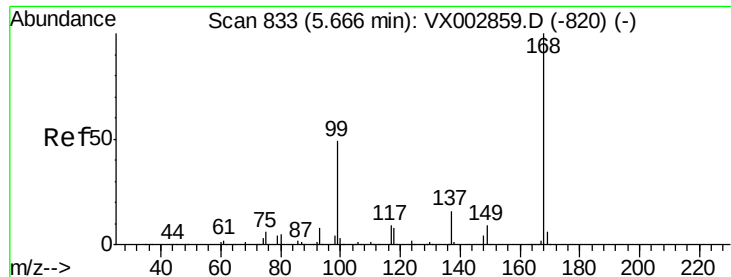
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062718\
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Quant Time: Jun 28 06:52:56 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

Instrument :

MSVOA_X

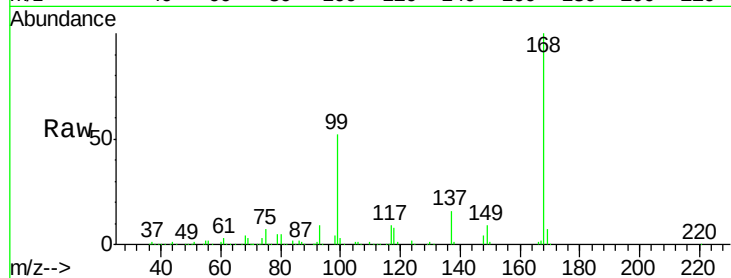
ClientSampleId :

Tot Ion:168 Resp: 272064

Ion Ratio Lower Upper

168 100

99 52.4 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

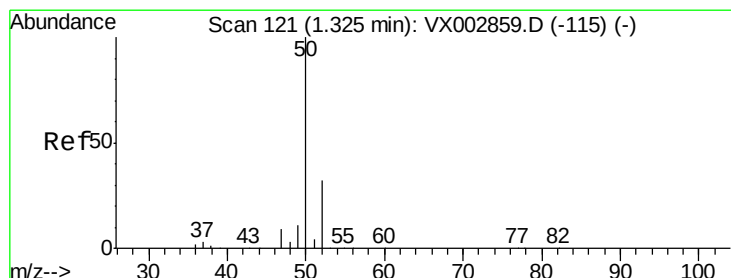
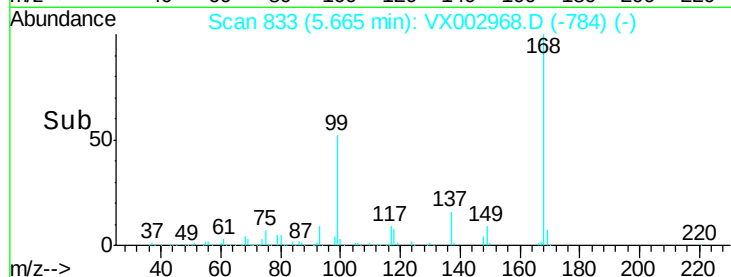
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 9.72 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002968.D

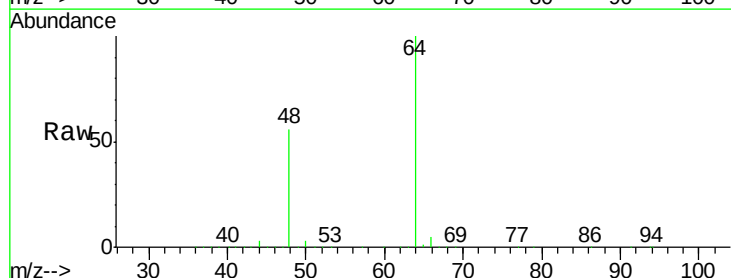
Acq: 28 Jun 2018 06:11

Tgt Ion: 50 Resp: 26940

Ion Ratio Lower Upper

50 100

52 3.0 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

8000

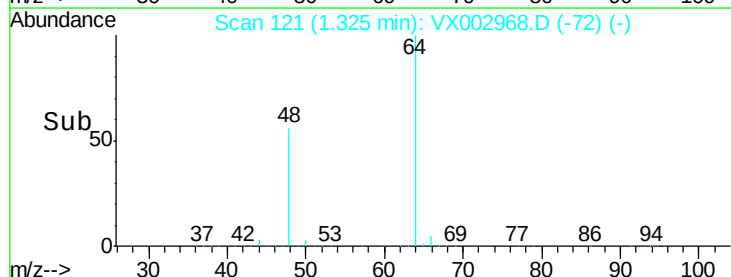
6000

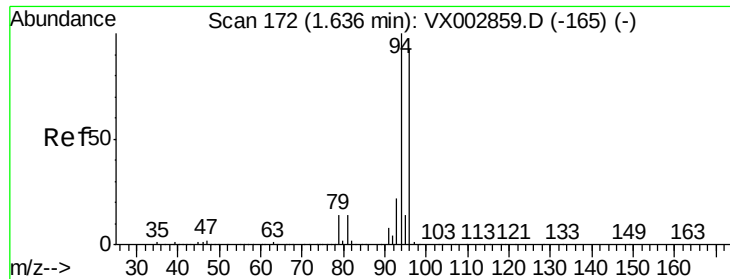
4000

2000

0

Time--> 1.20 1.30 1.40 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

Instrument :

MSVOA_X

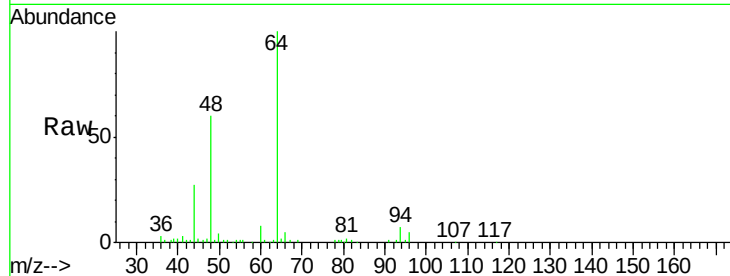
ClientSampleId :

Tot Ion: 94 Resp: 1481

Ion Ratio Lower Upper

94 100

96 76.8 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

800

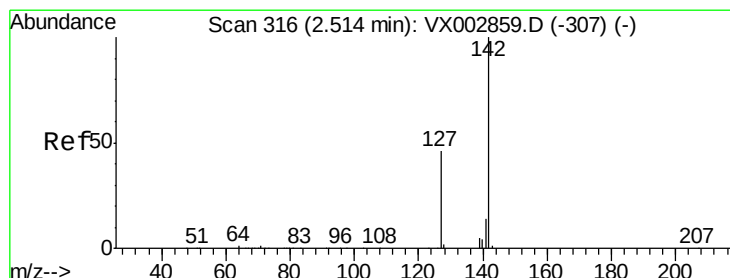
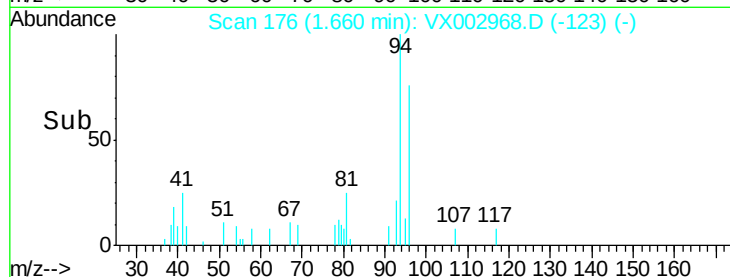
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 6.97 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

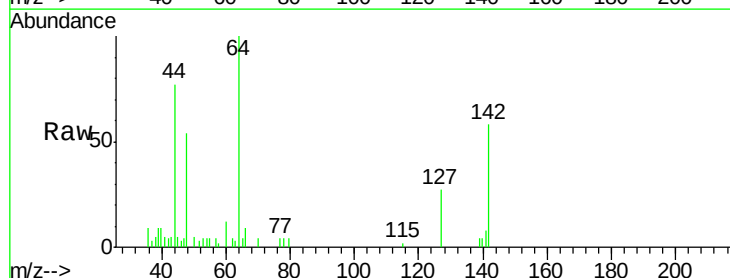
Tgt Ion:142 Resp: 2608

Ion Ratio Lower Upper

142 100

127 48.1 36.6 55.0

141 17.4 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.52

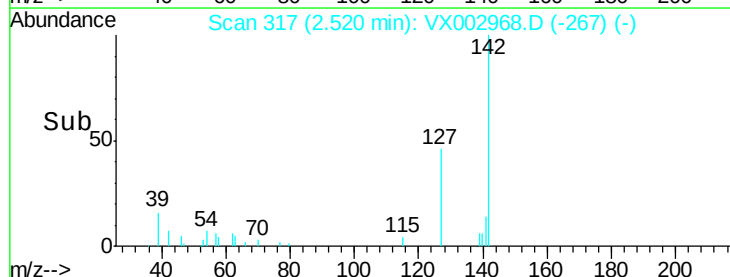
1500

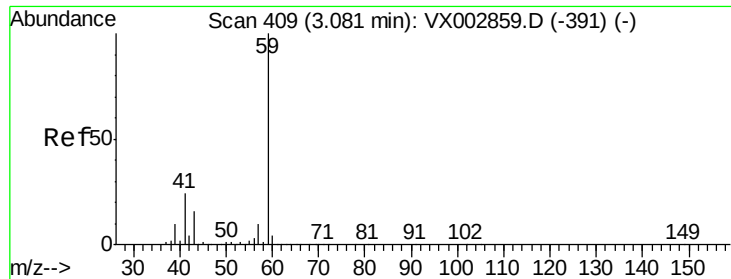
1000

500

0

Time-->

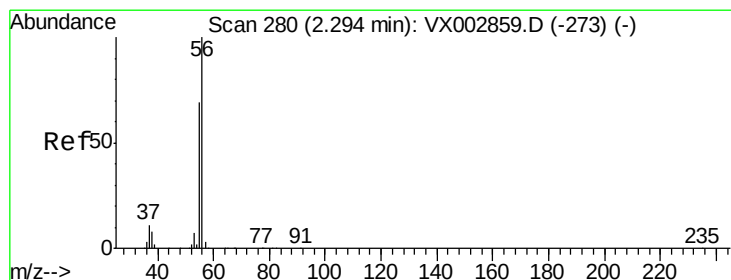
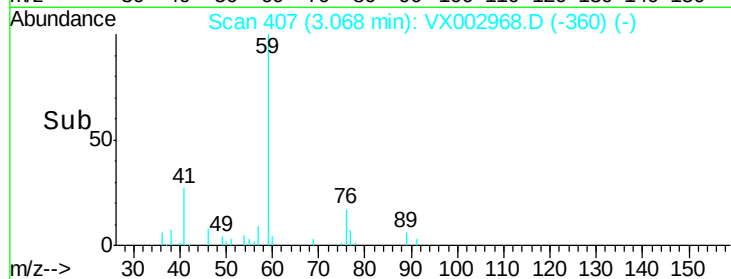
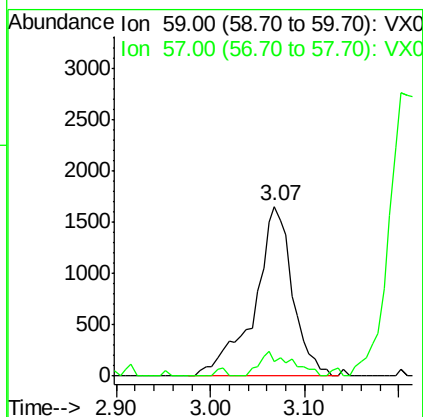
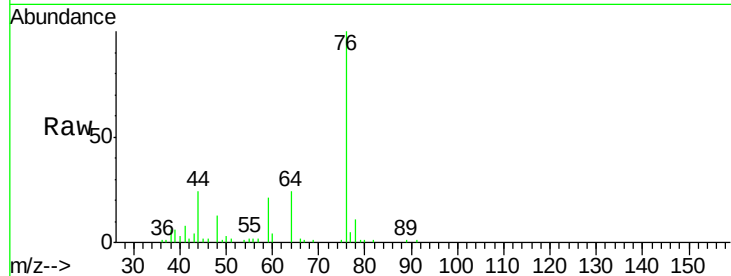




#11
Tert butyl alcohol
Concen: 6.26 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

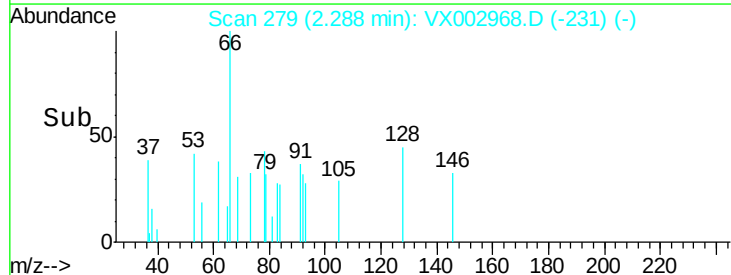
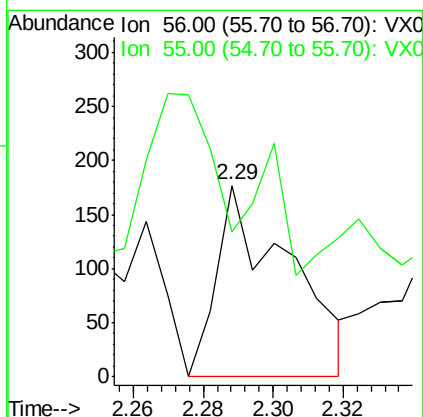
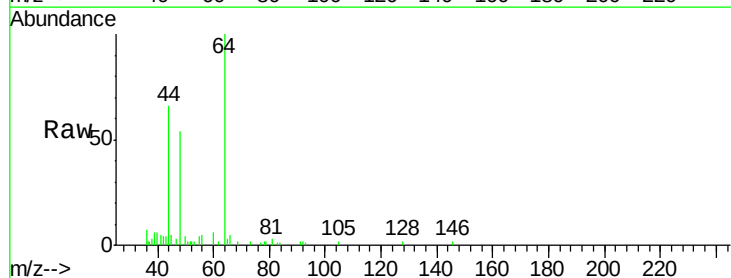
Instrument :
MSVOA_X
ClientSampled :

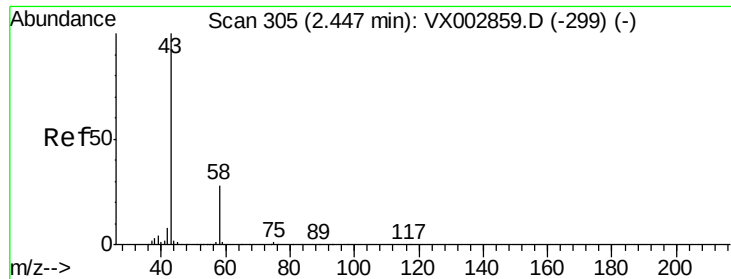
Tot Ion: 59 Resp: 4692
Ion Ratio Lower Upper
59 100
57 11.8 8.2 12.2



#13
Acrolein
Concen: 4.83 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

Tgt Ion: 56 Resp: 254
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 12.29 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

Instrument :

MSVOA_X

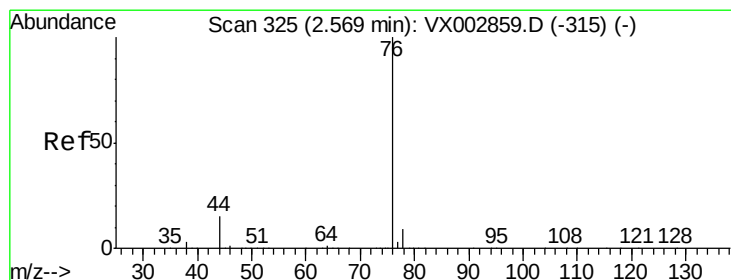
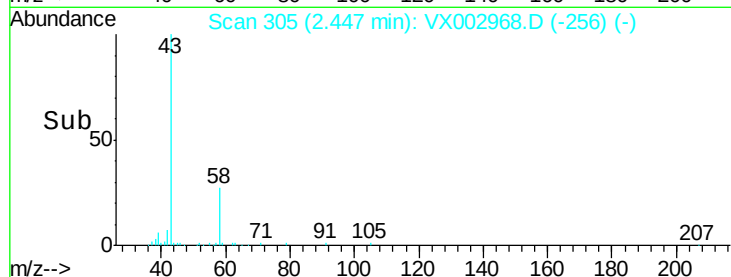
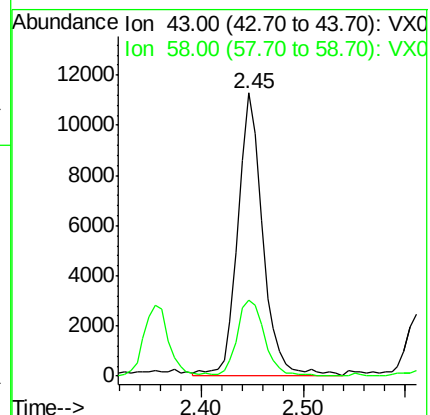
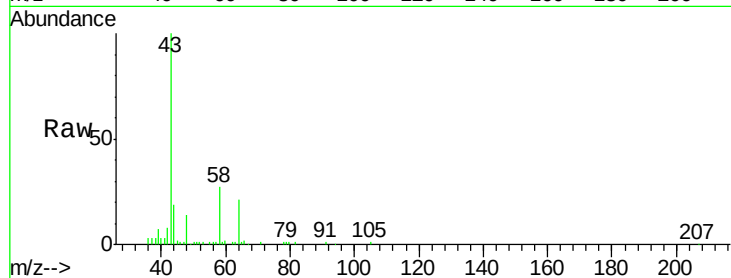
ClientSampleId :

Tot Ion: 43 Resp: 19146

Ion Ratio Lower Upper

43 100

58 27.1 22.1 33.1



#17

Carbon Disulfide

Concen: 0.99 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002968.D

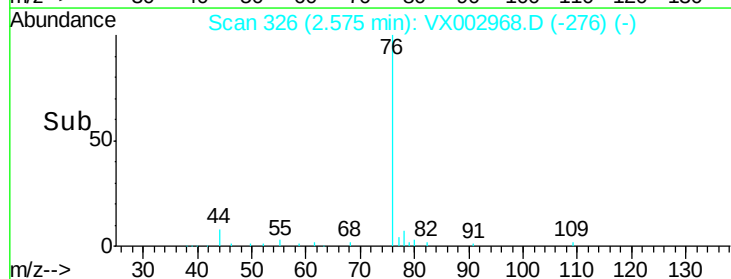
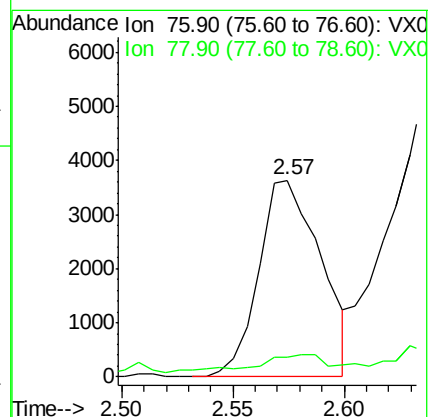
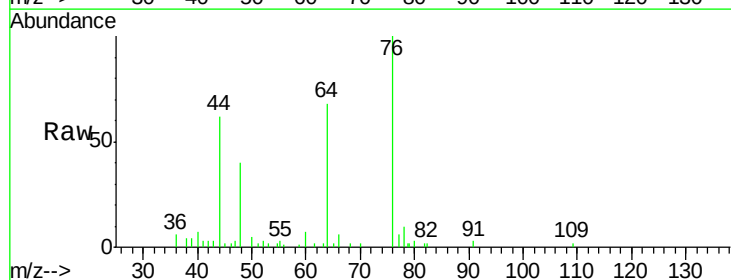
Acq: 28 Jun 2018 06:11

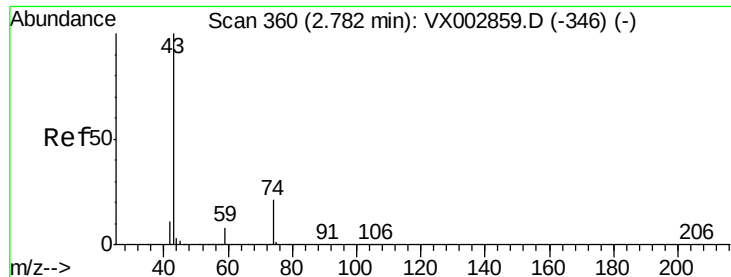
Tgt Ion: 76 Resp: 7064

Ion Ratio Lower Upper

76 100

78 6.5 6.9 10.3#

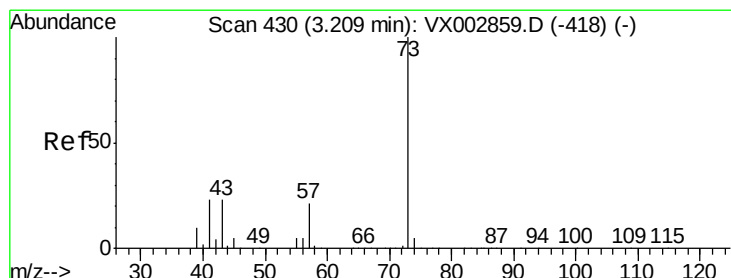
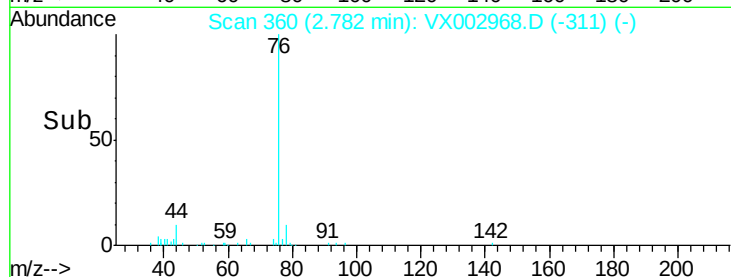
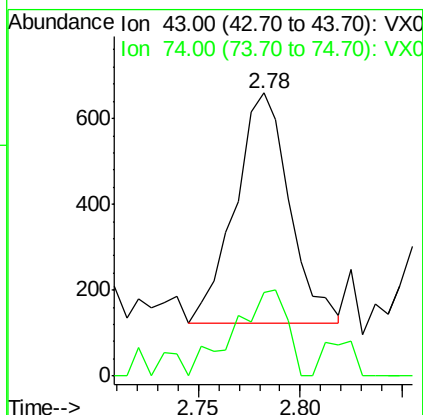
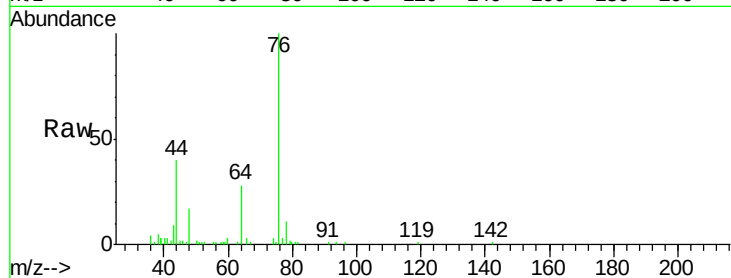




#18
Methyl Acetate
Concen: 0.23 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

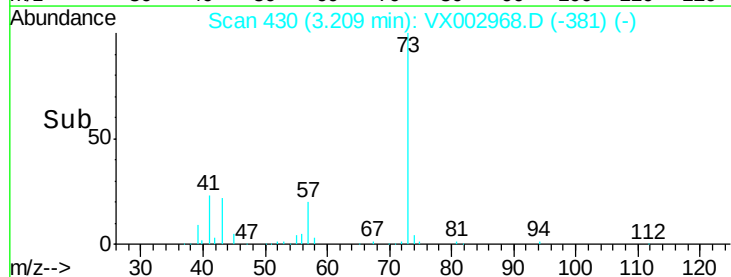
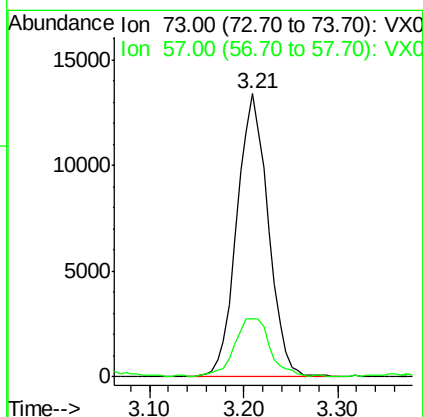
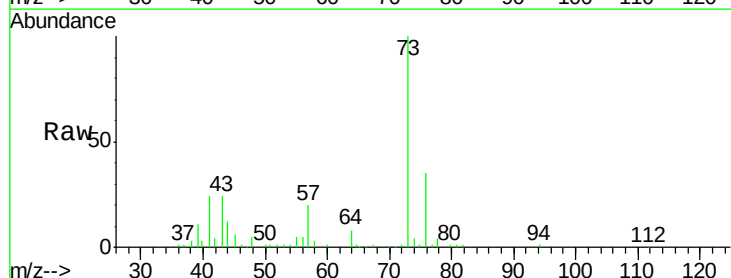
Instrument :
MSVOA_X
ClientSampled :

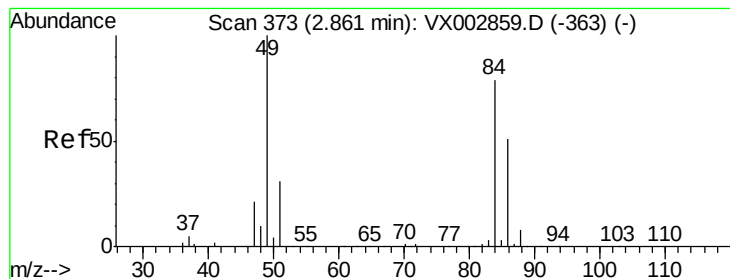
Tot Ion: 43 Resp: 995
Ion Ratio Lower Upper
43 100
74 36.1 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: 3.24 ug/l
RT: 3.21 min Scan# 430
Delta R.T. -0.00 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

Tgt Ion: 73 Resp: 31229
Ion Ratio Lower Upper
73 100
57 20.4 17.7 26.5





#20

Methylene Chloride

Concen: 0.26 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 773

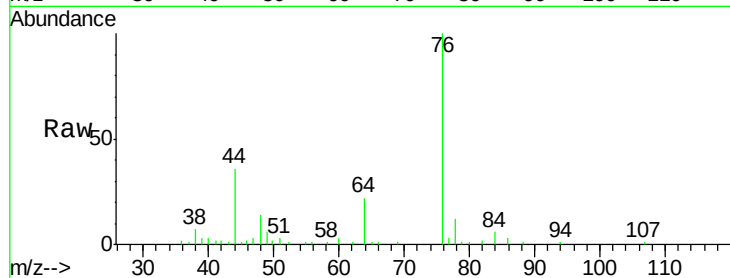
Ion Ratio Lower Upper

84 100

49 91.3 107.8 161.6#

51 28.5 32.8 49.2#

86 58.8 52.5 78.7

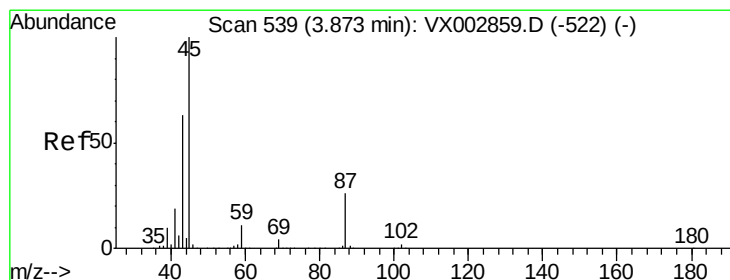
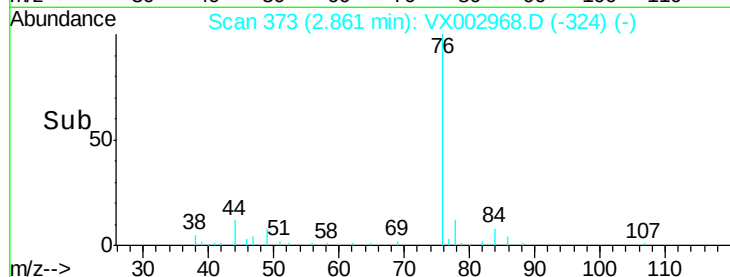
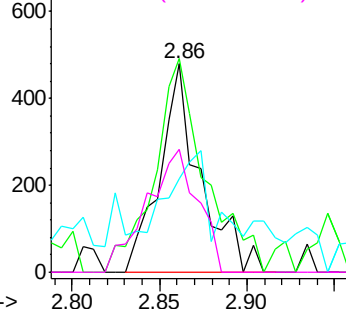


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#22

Diisopropyl ether

Concen: 0.60 ug/l

RT: 3.87 min Scan# 539

Delta R.T. -0.00 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

Tgt Ion: 45 Resp: 6036

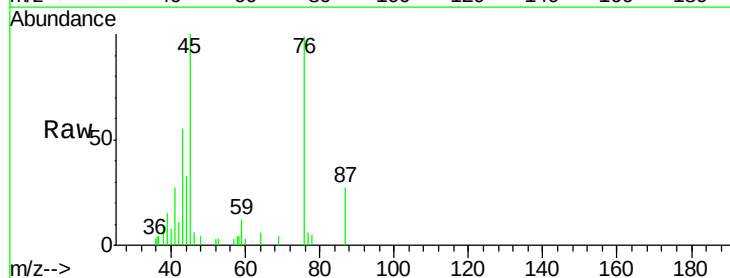
Ion Ratio Lower Upper

45 100

43 50.9 46.8 70.2

87 27.0 20.2 30.4

59 11.7 8.7 13.1

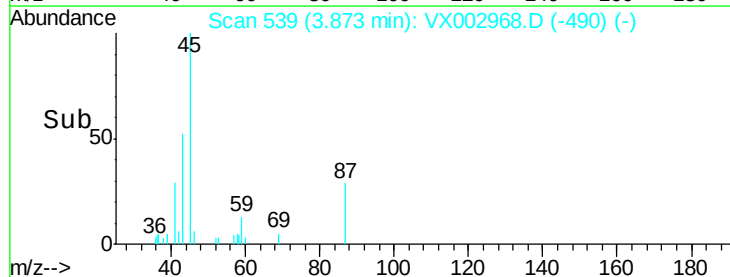
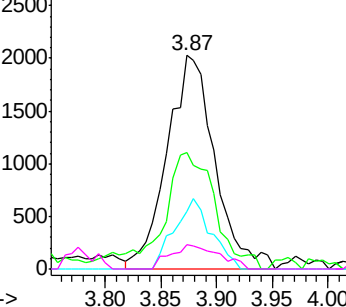


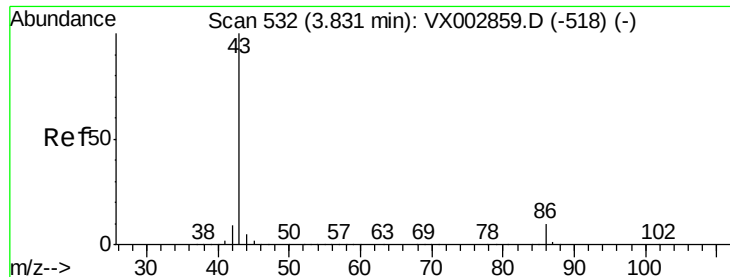
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0

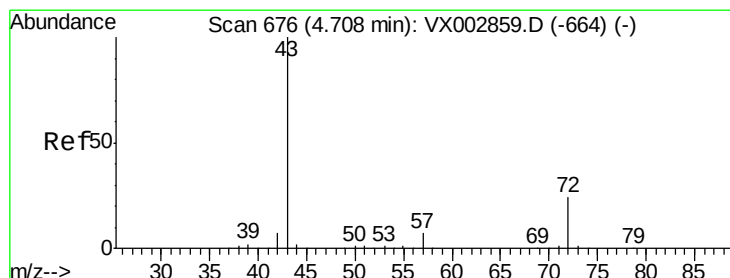
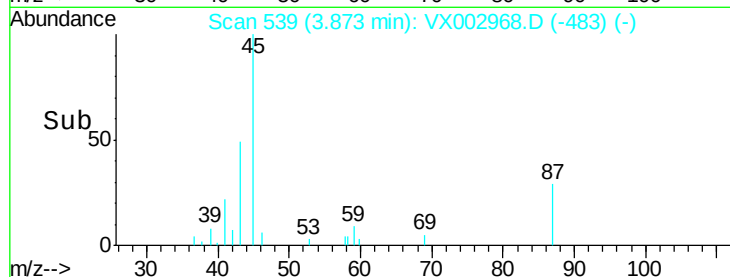
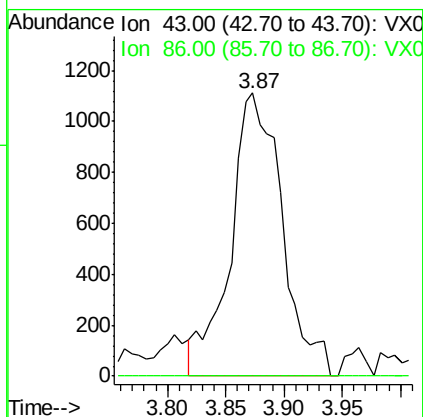
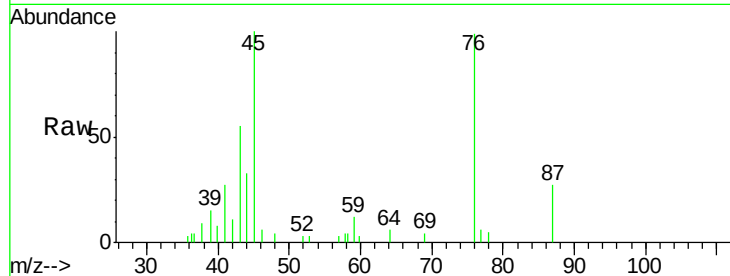




#23
 Vinyl Acetate
 Concen: 0.40 ug/l
 RT: 3.87 min Scan# 539
 Delta R.T. 0.04 min
 Lab File: VX002968.D
 Acq: 28 Jun 2018 06:11

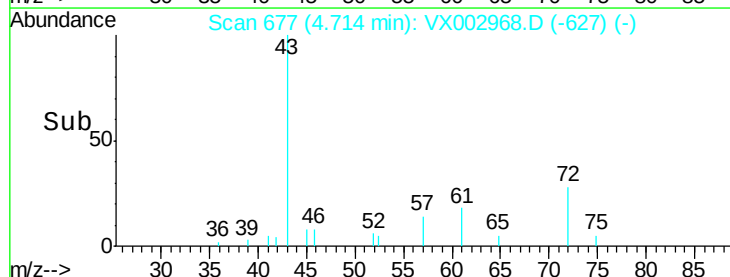
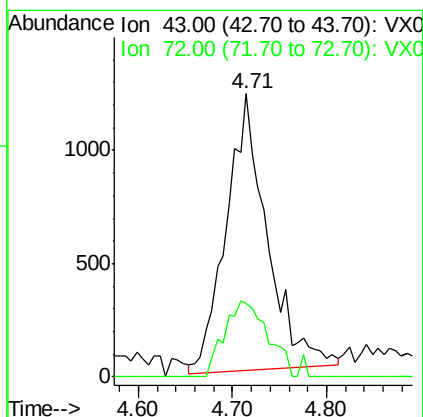
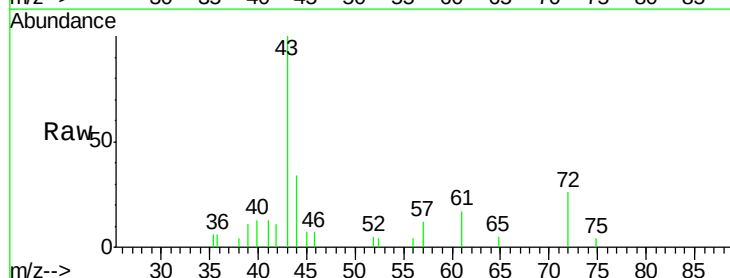
Instrument :
 MSVOA_X
 ClientSampled :

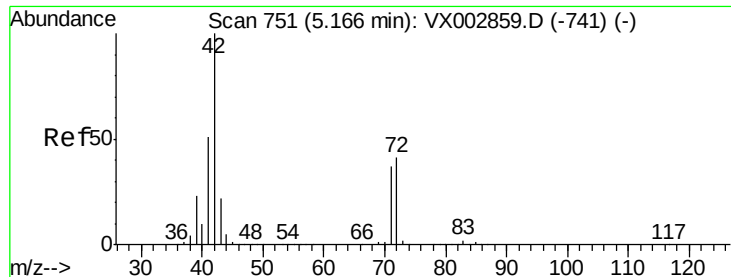
Tot Ion: 43 Resp: 3437
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.4 11.0#



#25
 2-Butanone
 Concen: 1.60 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. 0.01 min
 Lab File: VX002968.D
 Acq: 28 Jun 2018 06:11

Tgt Ion: 43 Resp: 3707
 Ion Ratio Lower Upper
 43 100
 72 27.3 18.5 27.7

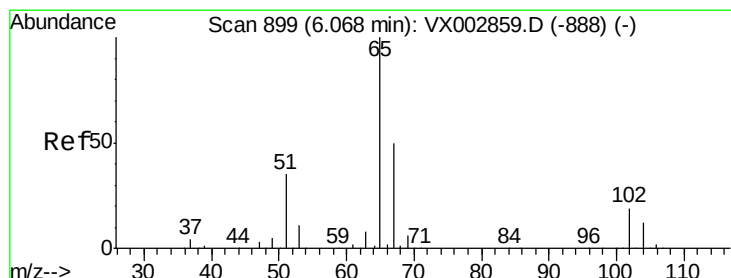
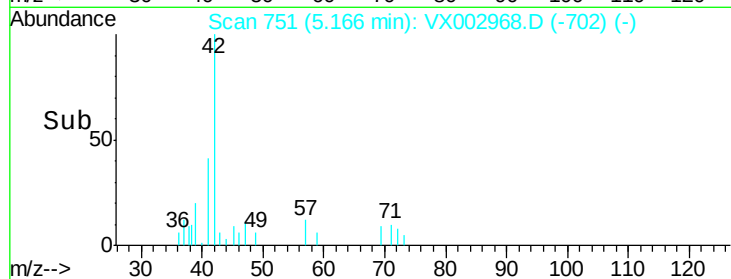
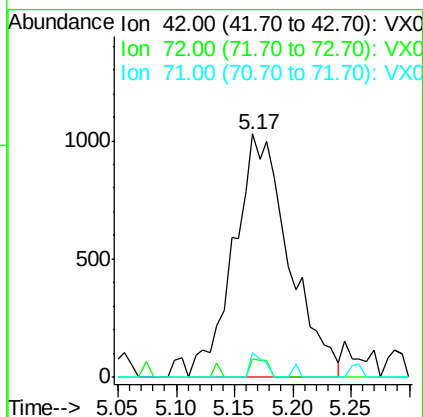
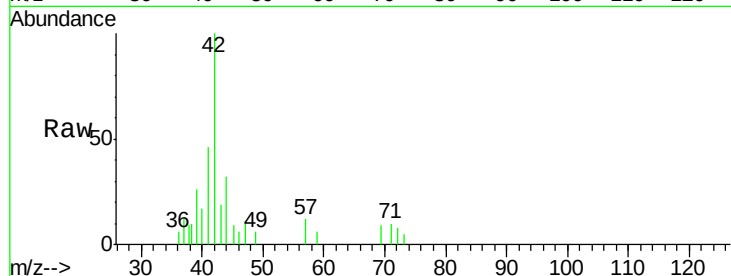




#29
Tetrahydrofuran
Concen: 2.28 ug/l
RT: 5.17 min Scan# 751
Delta R.T. -0.00 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

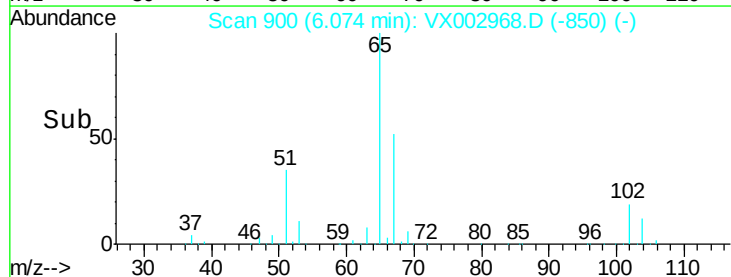
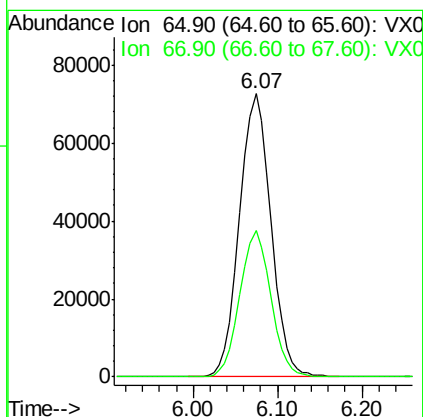
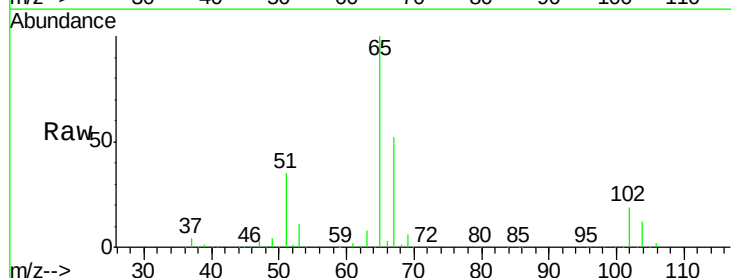
Instrument :
MSVOA_X
ClientSampleId :

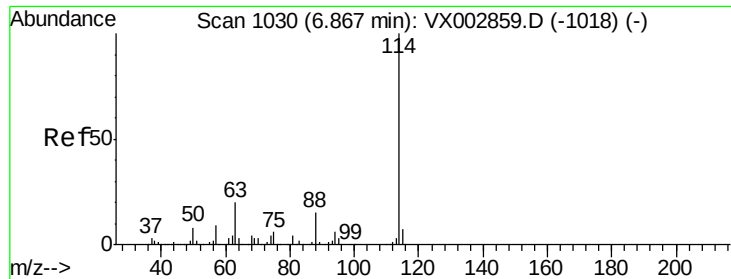
Tot Ion	Ratio	Lower	Upper
42	100		
72	2.4	32.0	48.0#
71	2.6	30.1	45.1#



#33
1,2-Dichloroethane-d4
Concen: 48.91 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

Instrument :

MSVOA_X

ClientSampleId :

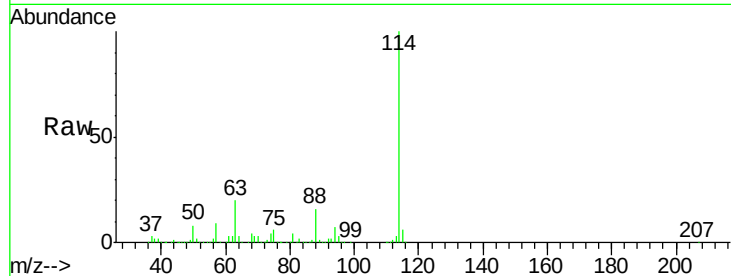
Tot Ion:114 Resp: 382627

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

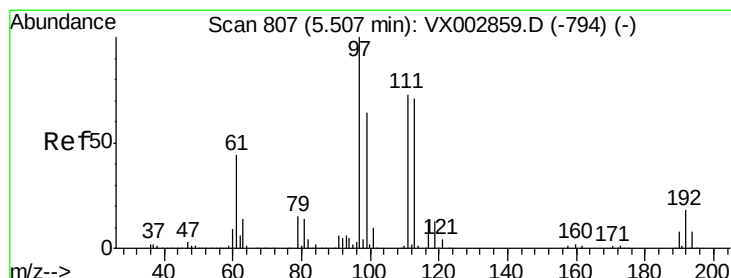
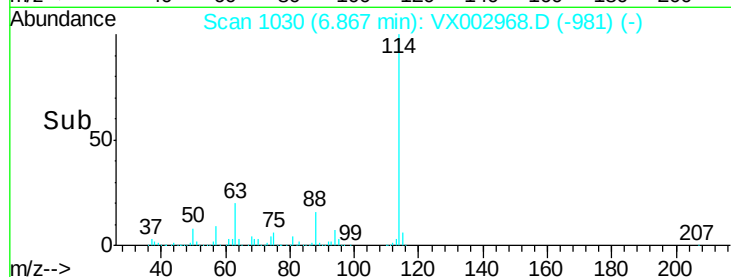
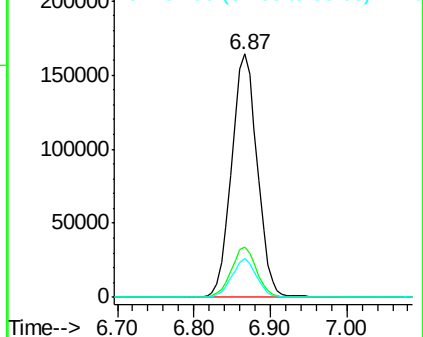
88 15.8 0.0 30.0



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: 49.30 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

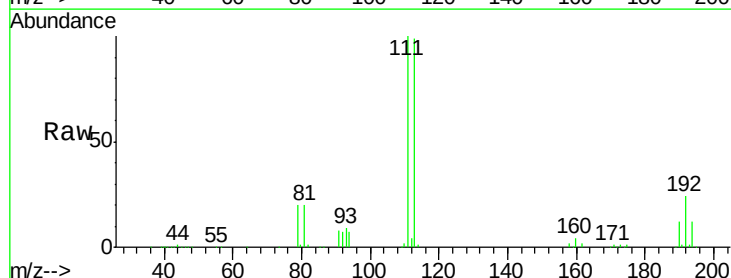
Tgt Ion:113 Resp: 149380

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

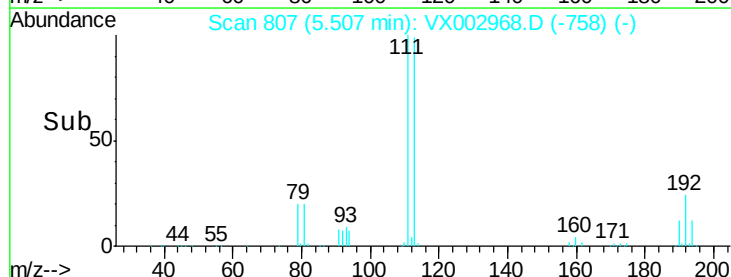
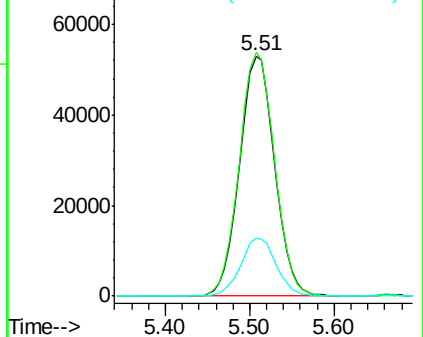
192 24.3 19.1 28.7

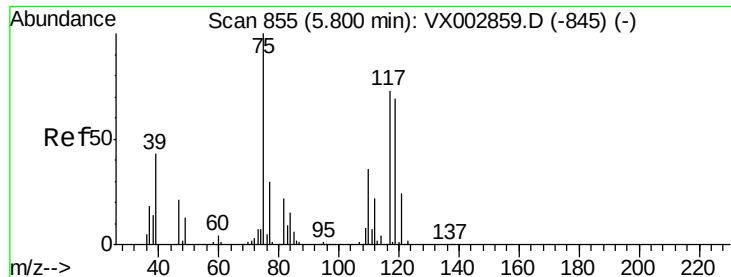


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

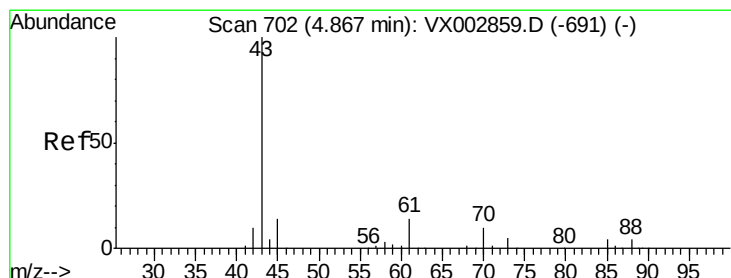
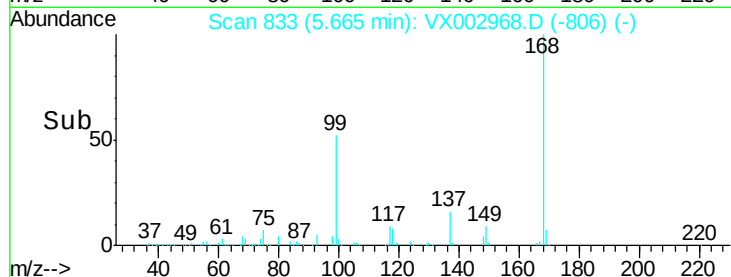
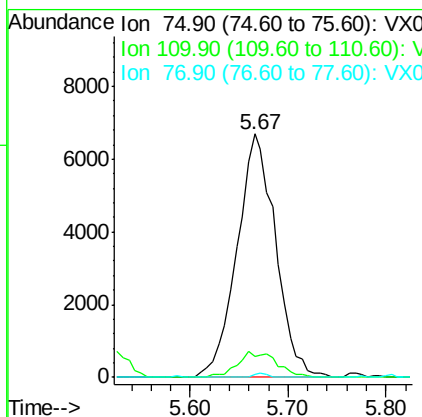
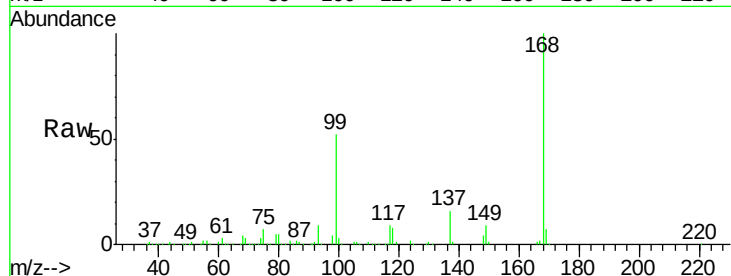




#36
 1,1-Dichloropropene
 Concen: 4.36 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002968.D
 Acq: 28 Jun 2018 06:11

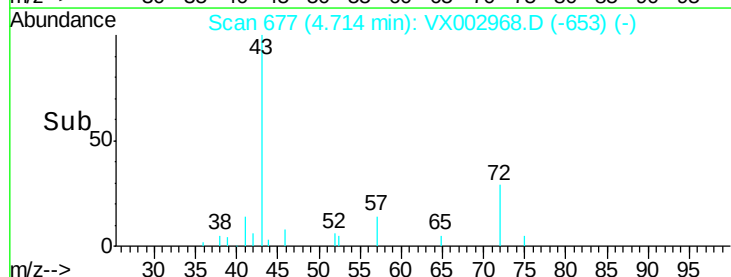
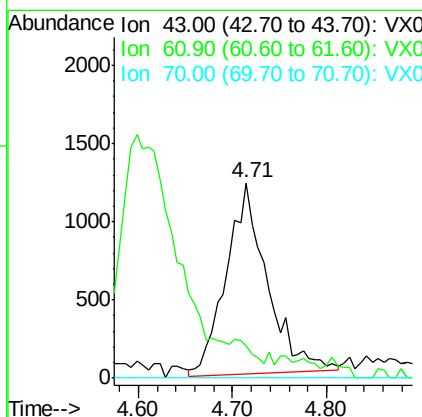
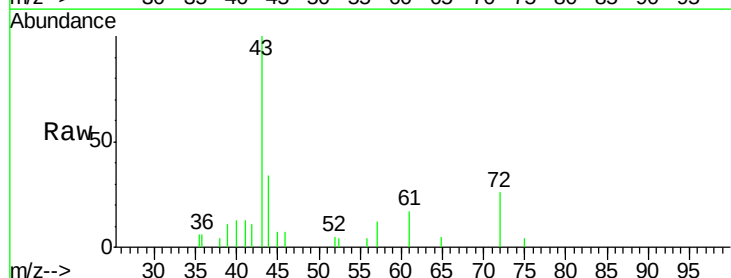
Instrument :
 MSVOA_X
 ClientSampleId :

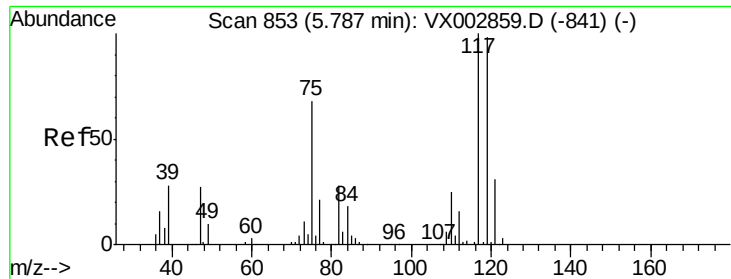
Tot Ion: 75 Resp: 18278
 Ion Ratio Lower Upper
 75 100
 110 10.8 18.1 54.4#
 77 0.5 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 0.82 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. -0.15 min
 Lab File: VX002968.D
 Acq: 28 Jun 2018 06:11

Tgt Ion: 43 Resp: 3707
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.4 15.6#
 70 0.0 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 5.43 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

Instrument :

MSVOA_X

ClientSampleId :

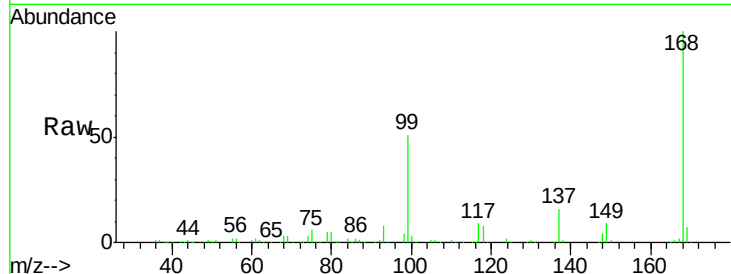
Tot Ion:117 Resp: 24981

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

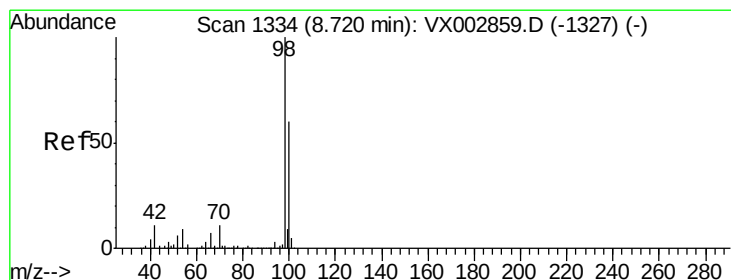
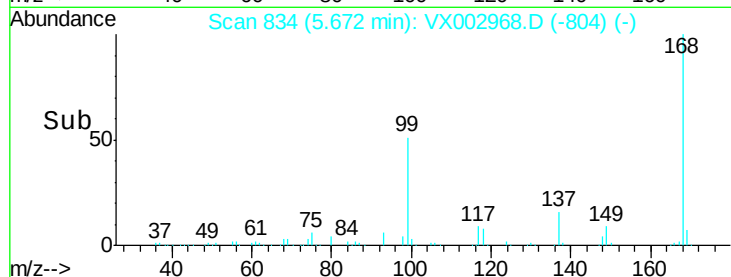
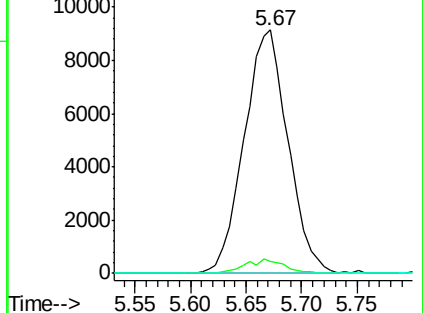
121 0.0 24.4 36.6#



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: 48.34 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002968.D

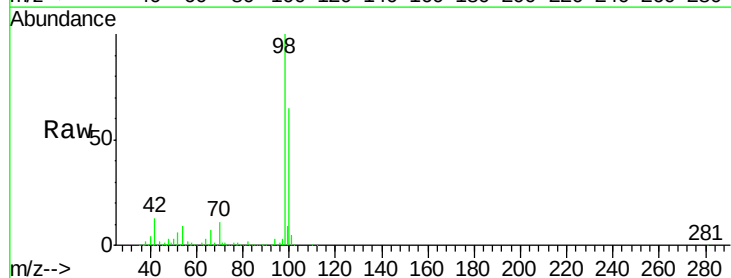
Acq: 28 Jun 2018 06:11

Tgt Ion: 98 Resp: 534912

Ion Ratio Lower Upper

98 100

100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

Ion 102.00 (101.70 to 102.70): V

Ion 104.00 (103.70 to 104.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 108.00 (107.70 to 108.70): V

Ion 110.00 (109.70 to 110.70): V

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 116.00 (115.70 to 116.70): V

Ion 118.00 (117.70 to 118.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 122.00 (121.70 to 122.70): V

Ion 124.00 (123.70 to 124.70): V

Ion 126.00 (125.70 to 126.70): V

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Ion 132.00 (131.70 to 132.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 136.00 (135.70 to 136.70): V

Ion 138.00 (137.70 to 138.70): V

Ion 140.00 (139.70 to 140.70): V

Ion 142.00 (141.70 to 142.70): V

Ion 144.00 (143.70 to 144.70): V

Ion 146.00 (145.70 to 146.70): V

Ion 148.00 (147.70 to 148.70): V

Ion 150.00 (149.70 to 150.70): V

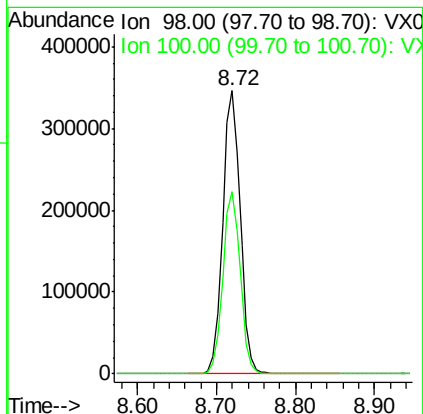
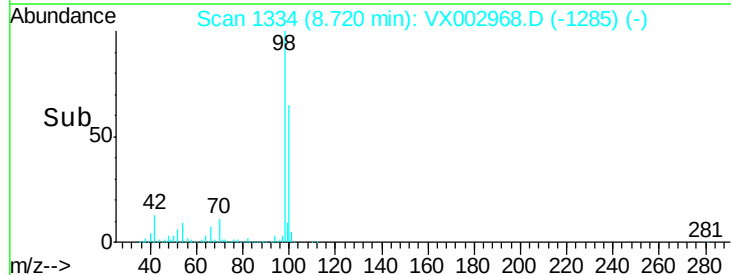
Ion 152.00 (151.70 to 152.70): V

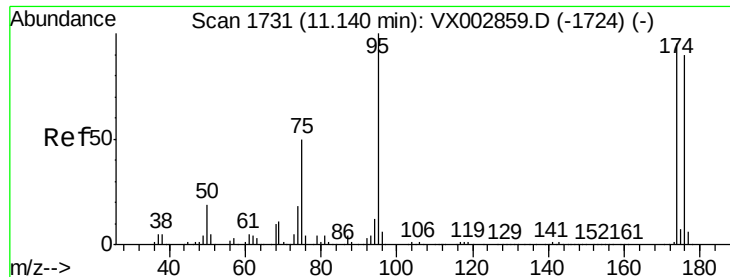
Ion 154.00 (153.70 to 154.70): V

Ion 156.00 (155.70 to 156.70): V

Ion 158.00 (157.70 to 158.70): V

Ion 160.00 (159.70 to 160.70): V

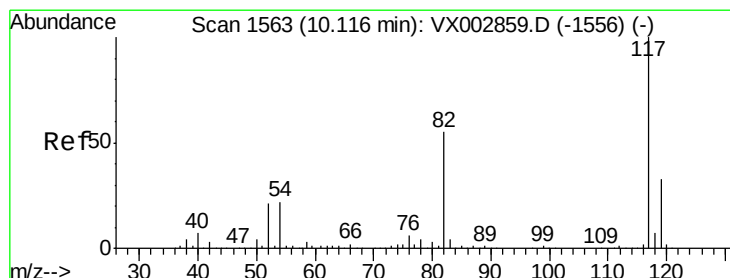
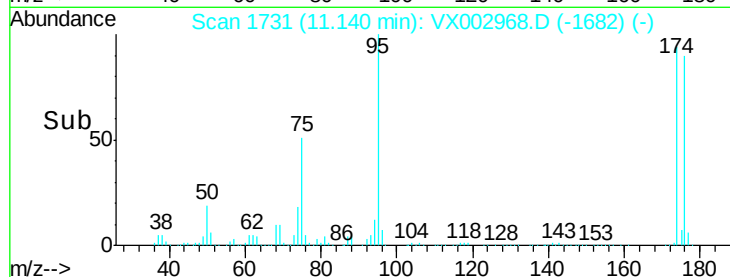
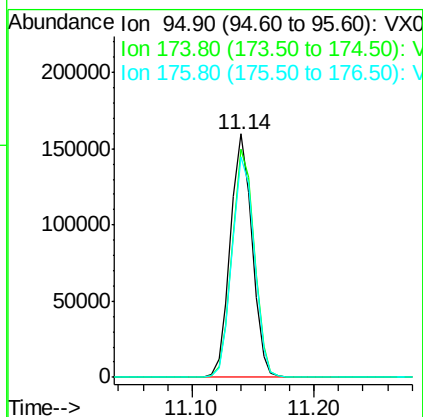
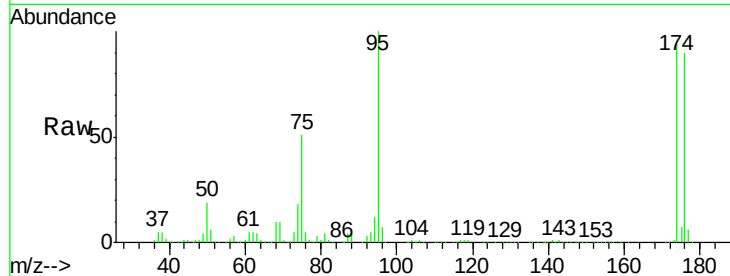




#62
4-Bromofluorobenzene
Concen: 45.74 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

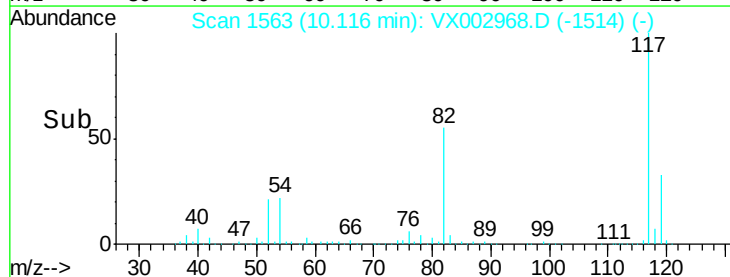
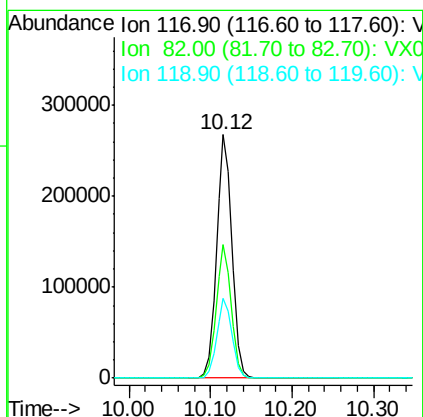
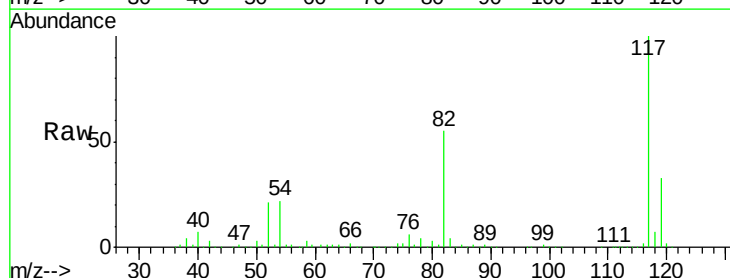
Instrument :
MSVOA_X
ClientSampleId :

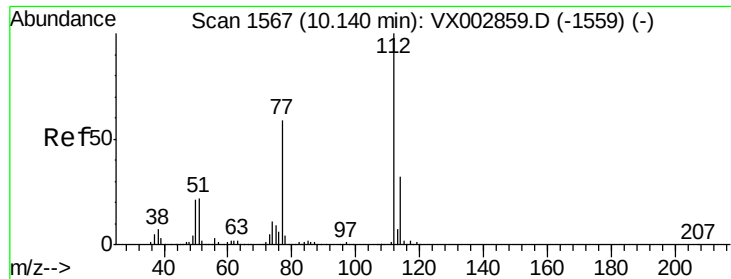
Tot Ion: 95 Resp: 195170
Ion Ratio Lower Upper
95 100
174 95.6 0.0 187.4
176 92.5 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

Tgt Ion: 117 Resp: 356075
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 32.8 25.8 38.6

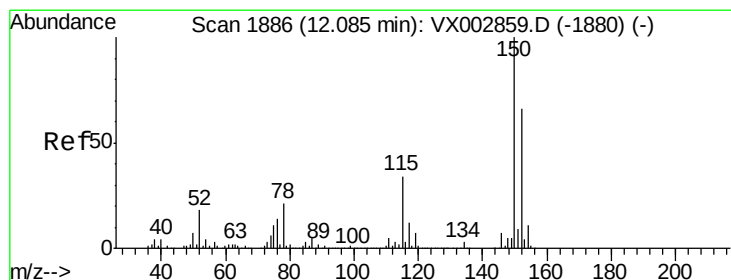
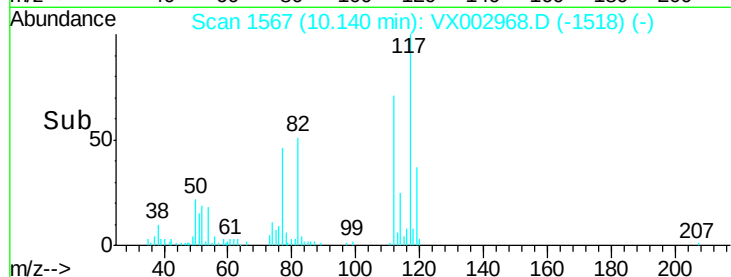
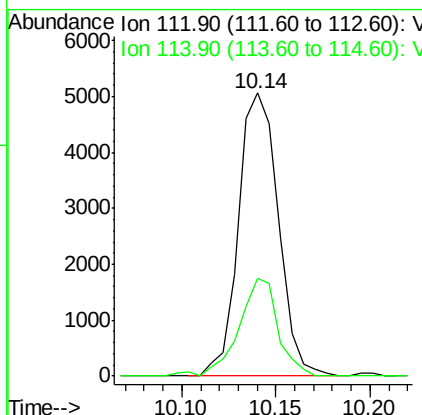
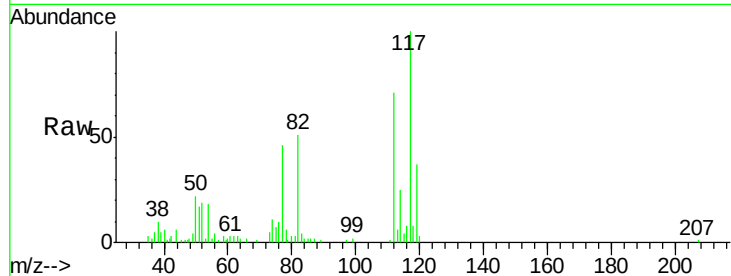




#65
Chlorobenzene
Concen: 0.82 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

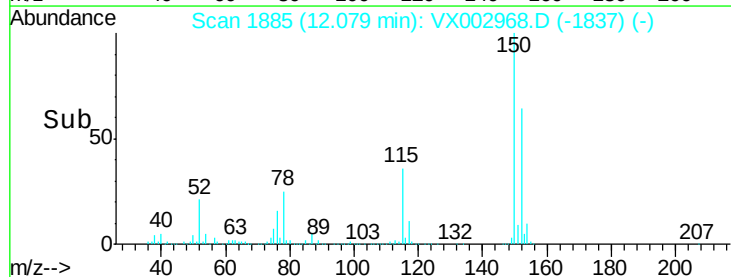
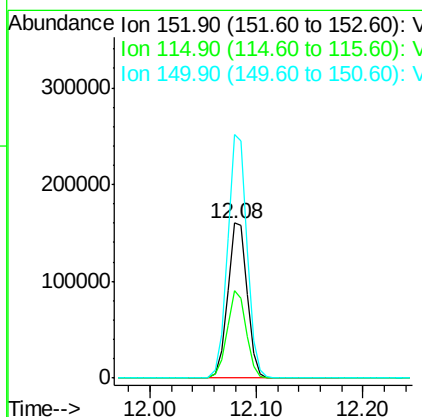
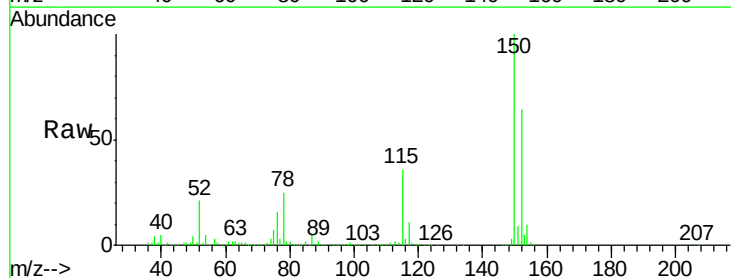
Instrument :
MSVOA_X
ClientSampled :

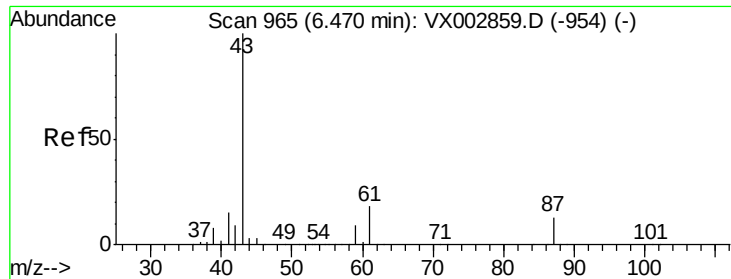
Tot Ion:112 Resp: 7410
Ion Ratio Lower Upper
112 100
114 34.7 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

Tgt Ion:152 Resp: 204641
Ion Ratio Lower Upper
152 100
115 54.9 40.1 120.2
150 156.8 0.0 347.2

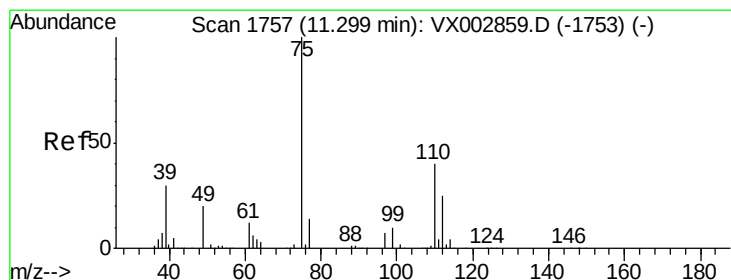
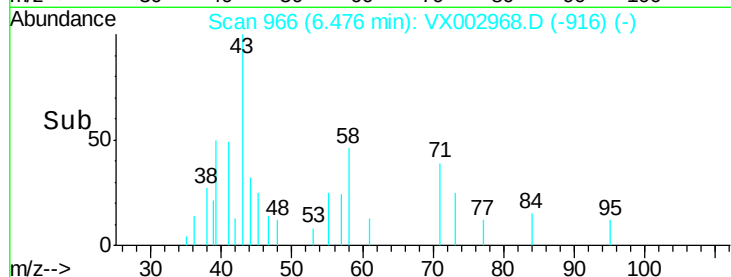
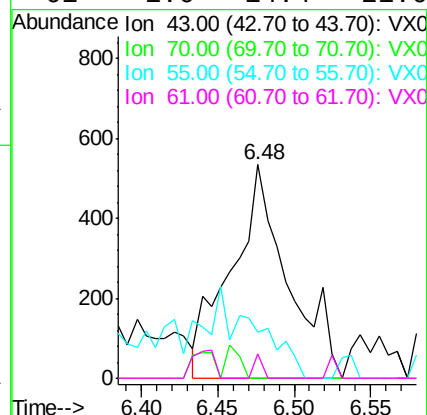
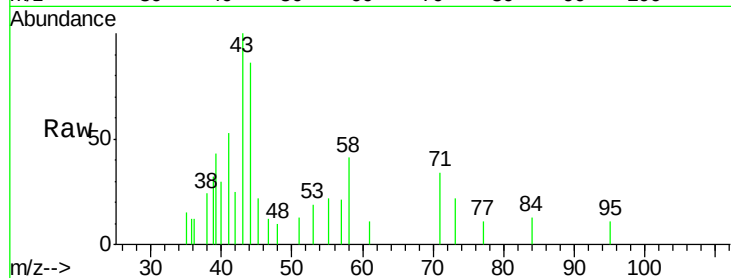




#74
N-amvl acetate
Concen: 0.21 ug/l
RT: 6.48 min Scan# 966
Delta R.T. 0.01 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

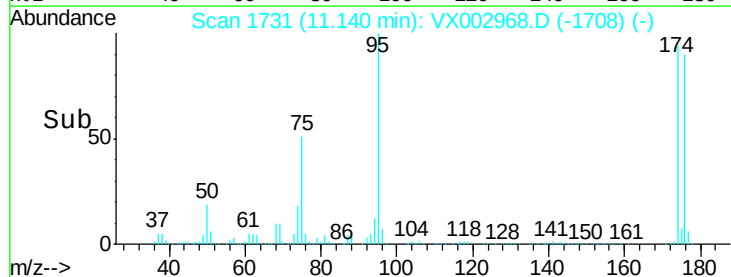
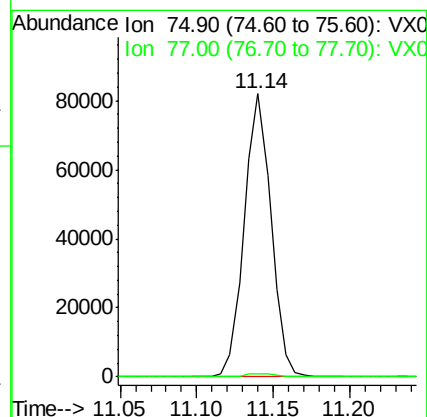
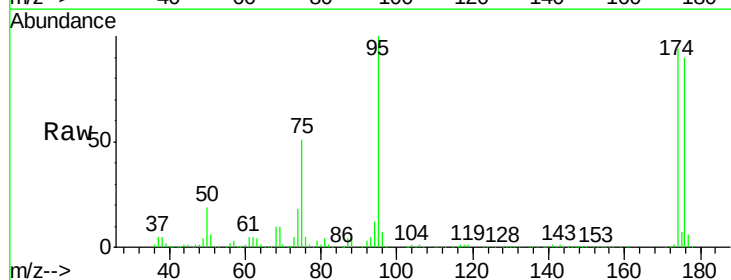
Instrument :
MSVOA_X
ClientSampleId :

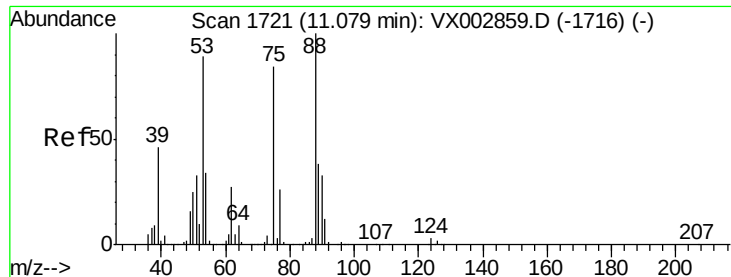
Tot Ion: 43 Resp: 1384
Ion Ratio Lower Upper
43 100
70 0.0 0.0 0.0
55 0.0 0.0 0.0
61 1.6 14.4 21.6#



#76
1,2,3-Trichloropropane
Concen: 26.89 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.16 min
Lab File: VX002968.D
Acq: 28 Jun 2018 06:11

Tgt Ion: 75 Resp: 99665
Ion Ratio Lower Upper
75 100
77 1.5 22.8 68.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 76.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

Instrument :

MSVOA_X

ClientSampleId :

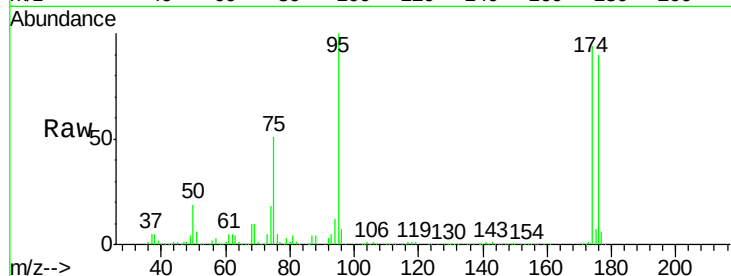
Tot Ion: 75 Resp: 99665

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

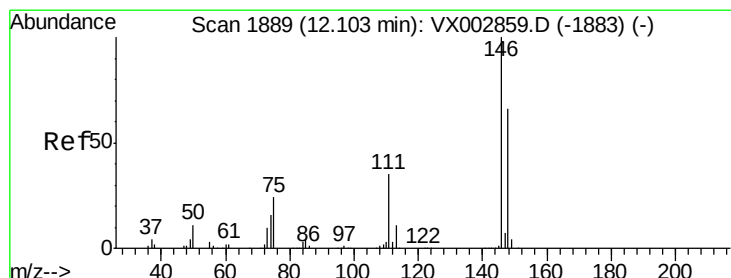
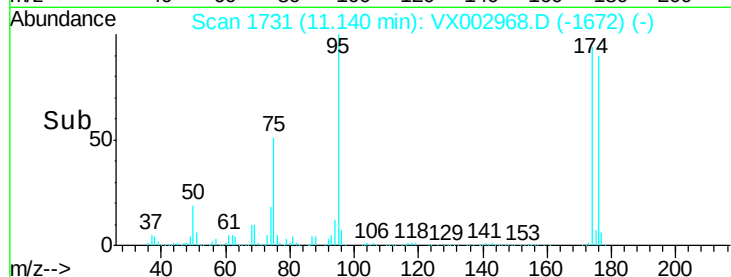
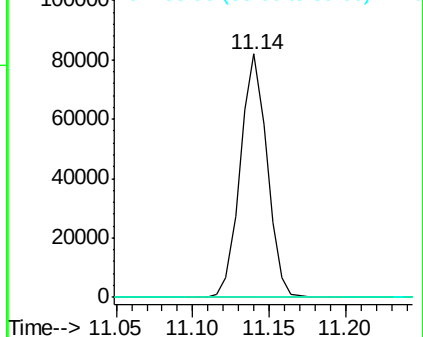
89 0.0 38.2 57.2#



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



#88

1,4-Dichlorobenzene

Concen: 0.32 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VX002968.D

Acq: 28 Jun 2018 06:11

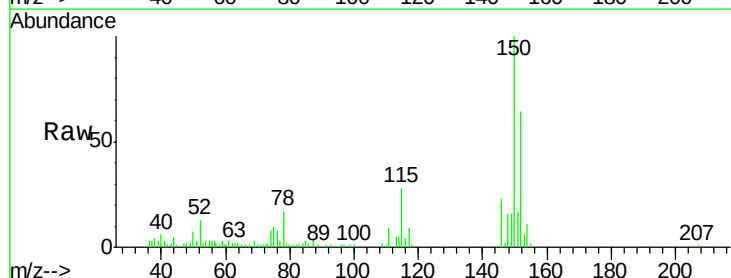
Tgt Ion: 146 Resp: 2355

Ion Ratio Lower Upper

146 100

111 153.1 18.7 56.1#

148 98.7 32.4 97.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

