

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090718\
 Data File : VX004402.D
 Acq On : 07 Sep 2018 12:24
 Operator : JC/MD
 Sample : VX0907WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0907WBL01

Quant Time: Sep 08 03:19:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	293839	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	464075	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	431439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	230748	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	198277	51.77	ug/l	0.00
Spiked Amount						
			Recovery	=	103.54%	
35) Dibromofluoromethane	5.50	113	174109	50.43	ug/l	0.00
Spiked Amount						
			Recovery	=	100.86%	
50) Toluene-d8	8.71	98	645273	49.52	ug/l	0.00
Spiked Amount						
			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	11.14	95	224036	46.07	ug/l	0.00
Spiked Amount						
			Recovery	=	92.14%	

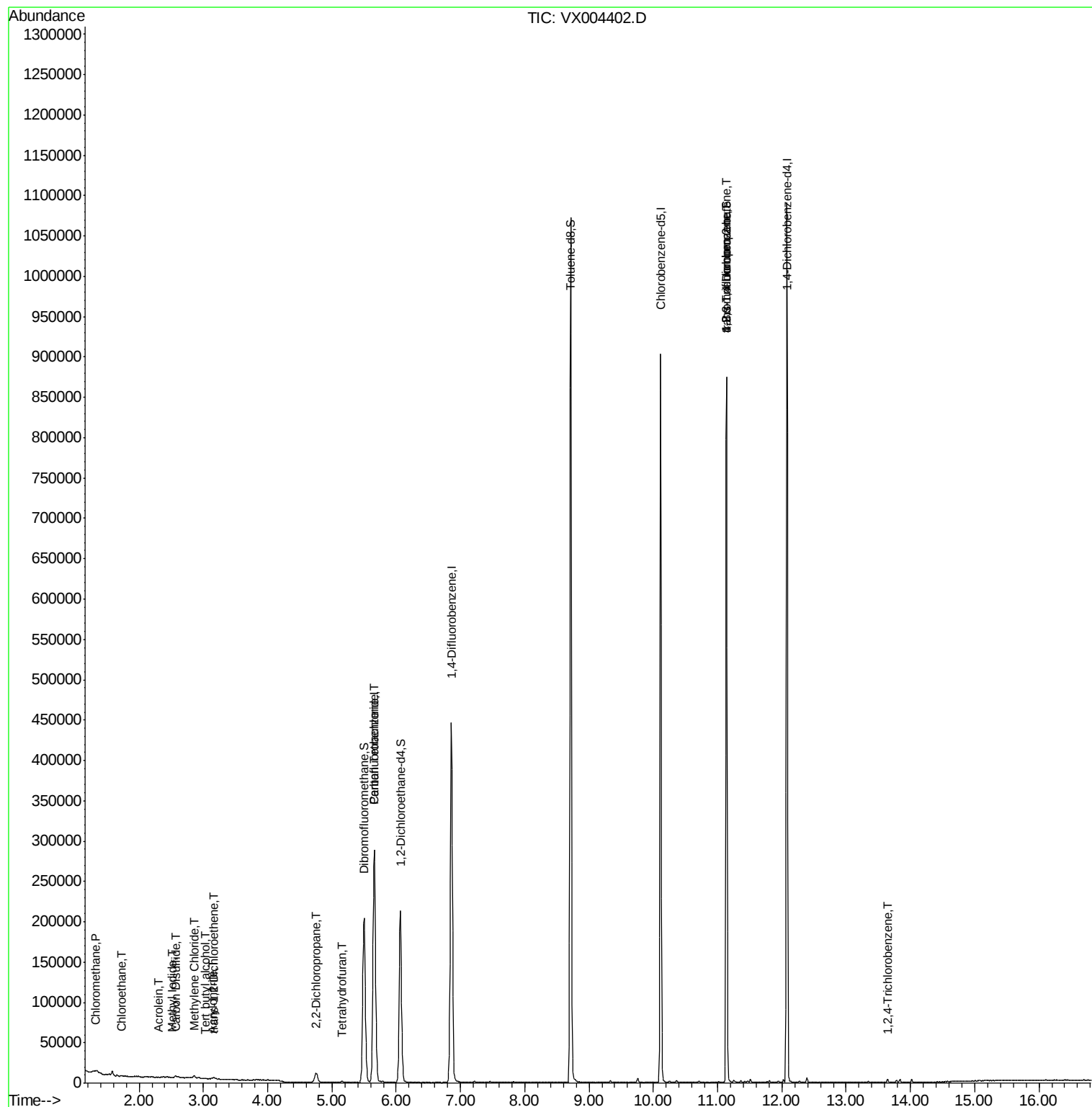
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	885	0.52	ug/l	# 65
5) Bromomethane	1.65	94	1184	Below	Cal	# 87
6) Chloroethane	1.73	64	605	1.16	ug/l	# 49
10) Methyl Iodide	2.52	142	678	4.43	ug/l	# 80
11) Tert butyl alcohol	3.04	59	378	0.46	ug/l	# 87
13) Acrolein	2.29	56	343	1.74	ug/l	# 79
15) Acrylonitrile	3.14	53	917	0.45	ug/l	# 81
16) Acetone	2.43	43	1294	Below	Cal	# 83
17) Carbon Disulfide	2.57	76	3145	1.16	ug/l	# 85
20) Methylene Chloride	2.85	84	1453	0.39	ug/l	# 90
21) trans-1,2-Dichloroethene	3.17	96	703	0.20	ug/l	# 67
25) 2-Butanone	4.70	43	428	Below	Cal	# 47
26) 2,2-Dichloropropane	4.75	77	1064	0.22	ug/l	# 52
29) Tetrahydrofuran	5.15	42	1203	0.73	ug/l	# 85
38) Carbon Tetrachloride	5.66	117	25810	5.26	ug/l	# 15
76) 1,2,3-Trichloropropane	11.13	75	105615	22.50	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.13	75	105615	73.02	ug/l	# 10
93) 1,2,4-Trichlorobenzene	13.65	180	1351	0.25	ug/l	# 90

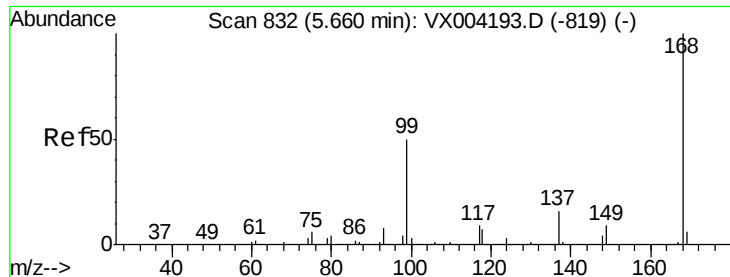
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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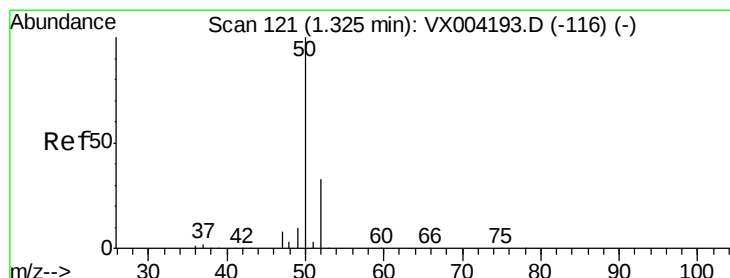
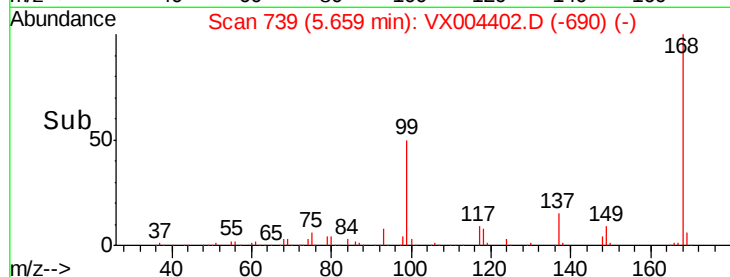
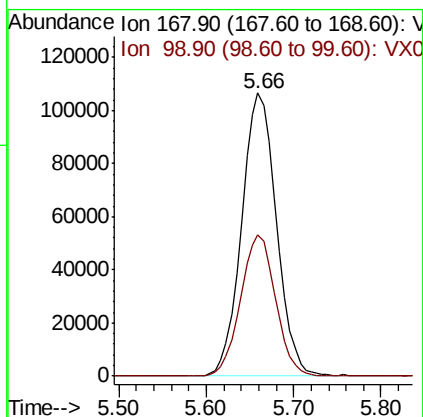
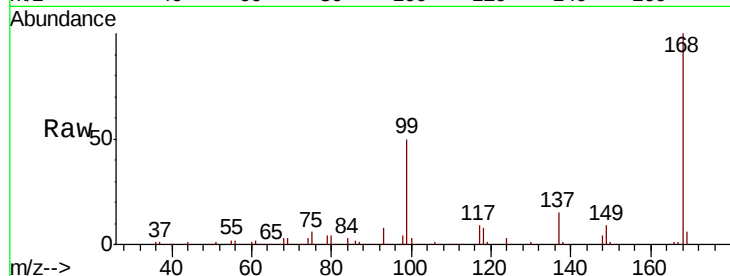




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.00 min
Lab File: VX004402.D
Acq: 07 Sep 2018 12:24

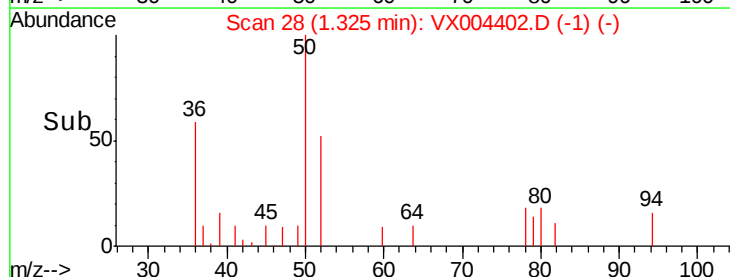
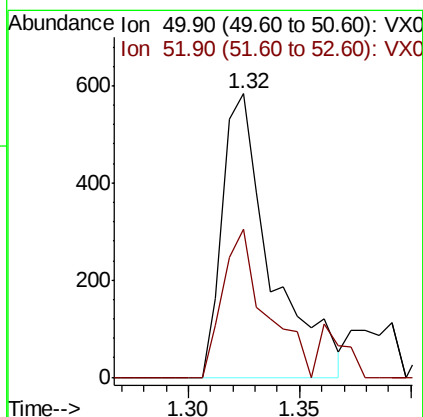
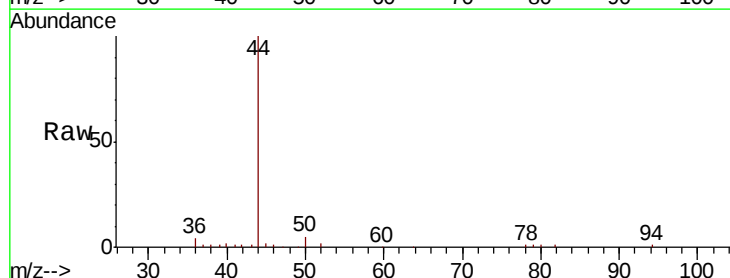
Instrument :
MSVOA_X
ClientSampleId :
VX0907WBL01

Tot Ion:168 Resp: 293839
Ion Ratio Lower Upper
168 100
99 50.1 39.9 59.9



#3
Chloromethane
Concen: 0.52 ug/l
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX004402.D
Acq: 07 Sep 2018 12:24

Tgt Ion: 50 Resp: 885
Ion Ratio Lower Upper
50 100
52 52.1 26.2 39.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

Instrument :

MSVOA_X

ClientSampleId :

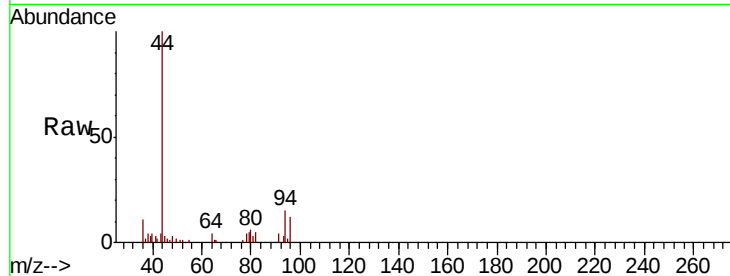
VX0907WBL01

Tot Ion: 94 Resp: 1184

Ion Ratio Lower Upper

94 100

96 80.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

400

200

0

1.60 1.65 1.70

1.65

1.65

1.65

1.65

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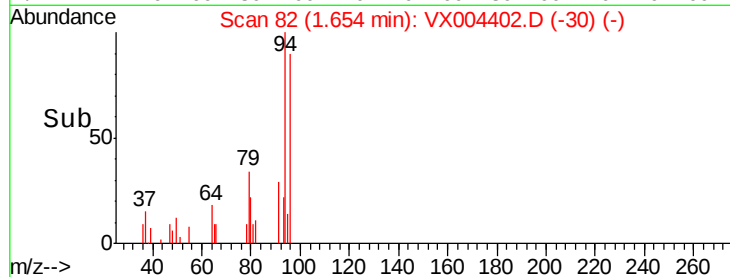
1.65

1.65

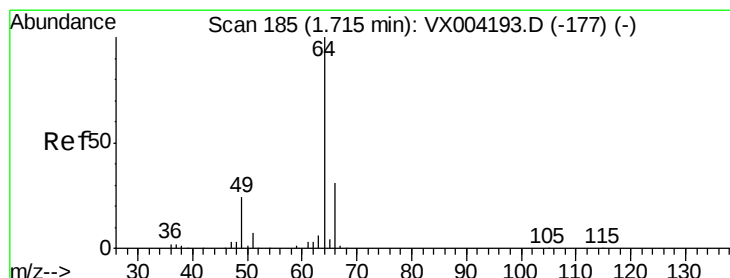
1.65

1.65

1.65



Time-->



#6

Chloroethane

Concen: 1.16 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX004402.D

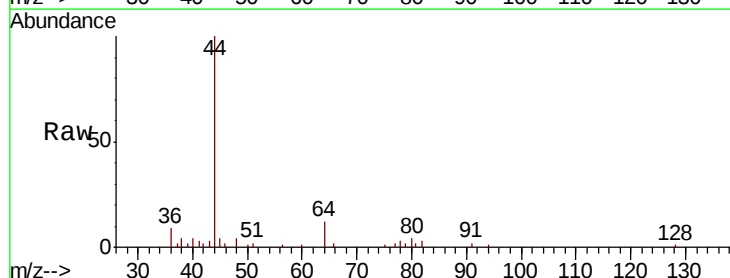
Acq: 07 Sep 2018 12:24

Tgt Ion: 64 Resp: 605

Ion Ratio Lower Upper

64 100

66 3.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

600

400

200

0

1.65 1.70 1.75

1.73

1.73

1.73

1.73

1.73

1.73

1.73

1.73

1.73

1.73

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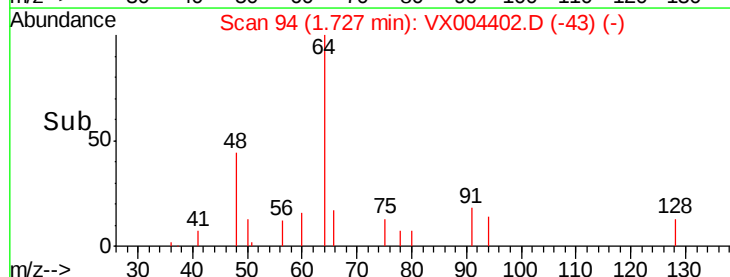
1.73

1.73

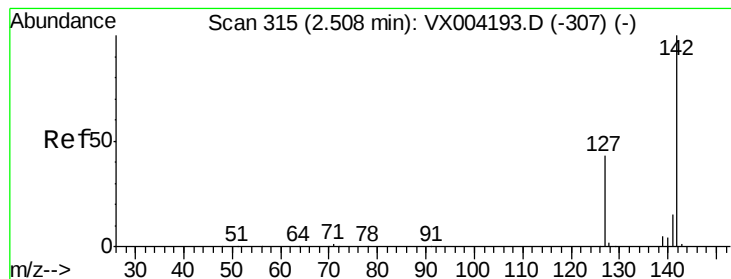
1.73

1.73

1.73



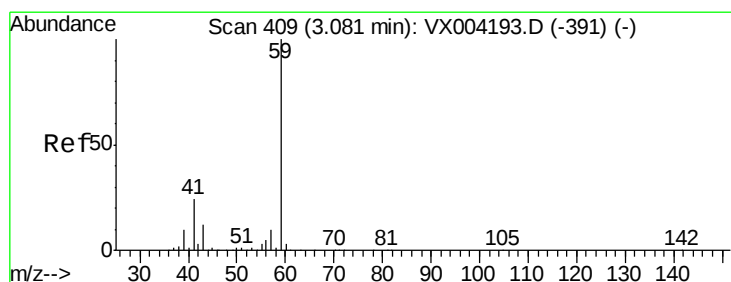
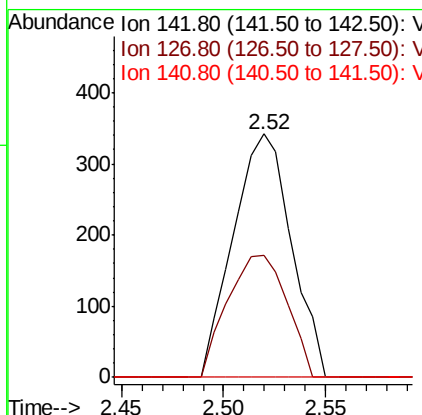
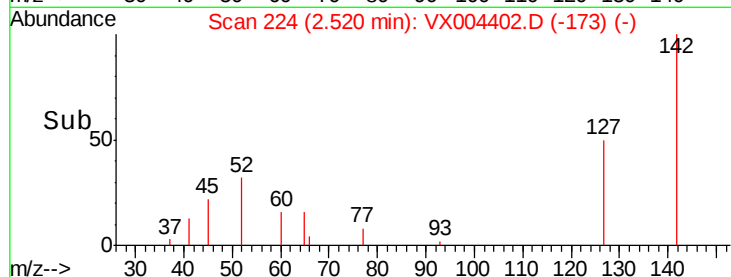
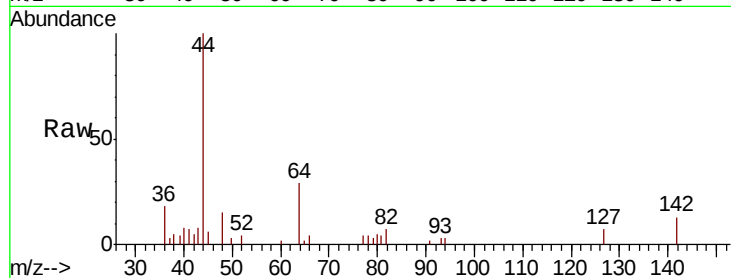
Time-->



#10
Methvl Iodide
Concen: 4.43 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004402.D
Acq: 07 Sep 2018 12:24

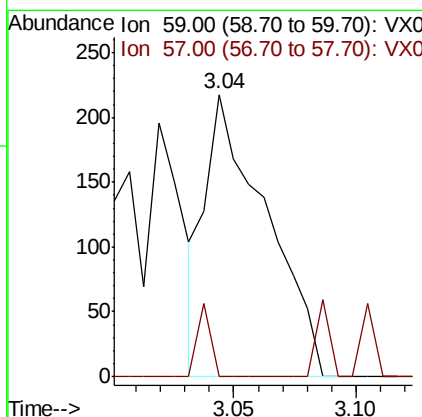
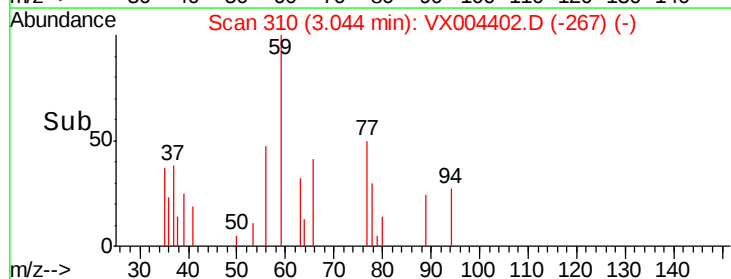
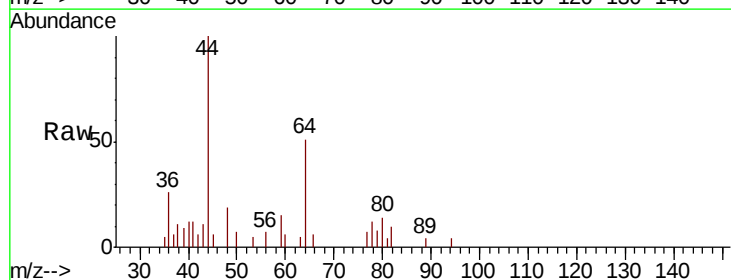
Instrument :
MSVOA_X
ClientSampleId :
VX0907WBL01

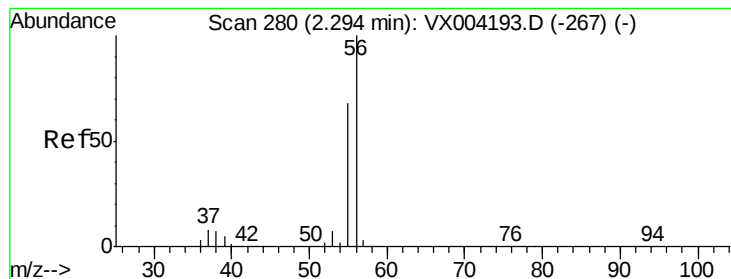
Tot Ion:142 Resp: 678
Ion Ratio Lower Upper
142 100
127 51.3 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.46 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.04 min
Lab File: VX004402.D
Acq: 07 Sep 2018 12:24

Tgt Ion: 59 Resp: 378
Ion Ratio Lower Upper
59 100
57 5.3 8.2 12.4#





#13

Acrolein

Concen: 1.74 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

Instrument :

MSVOA_X

ClientSampleId :

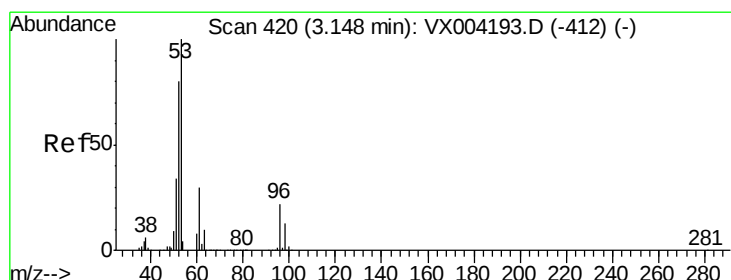
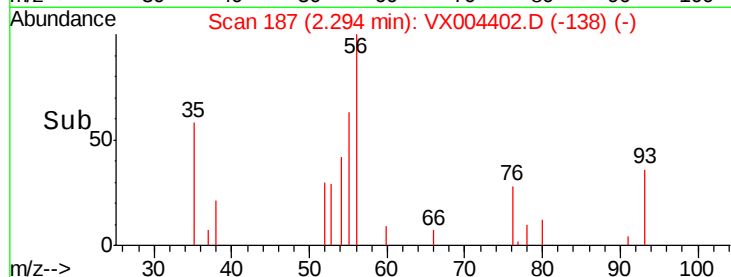
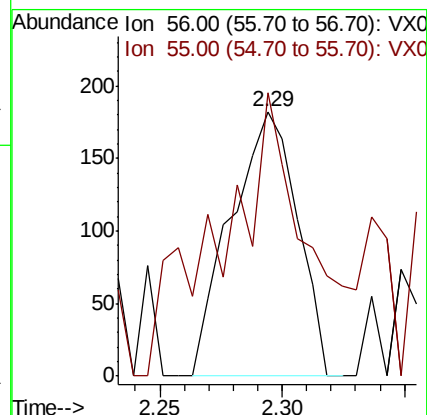
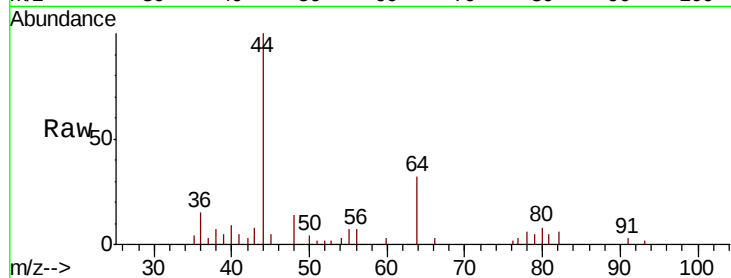
VX0907WBL01

Tot Ion: 56 Resp: 343

Ion Ratio Lower Upper

56 100

55 85.4 54.7 82.1#



#15

Acrylonitrile

Concen: 0.45 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

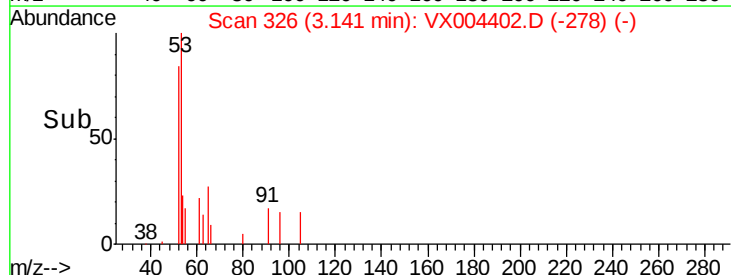
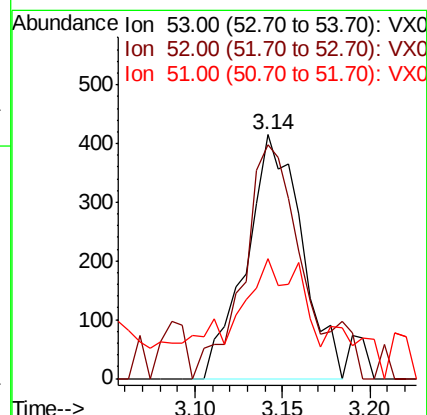
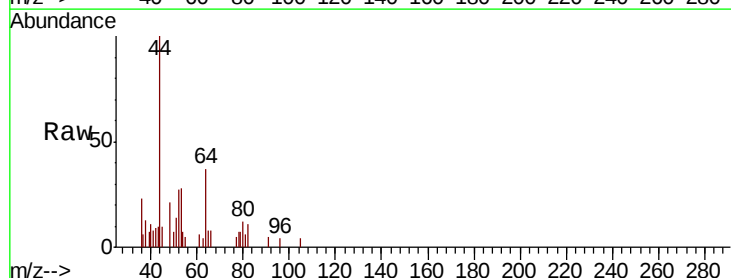
Tgt Ion: 53 Resp: 917

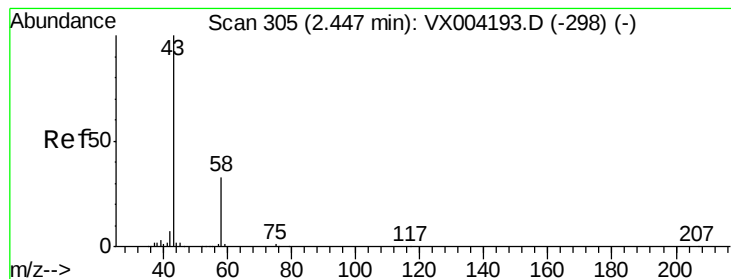
Ion Ratio Lower Upper

53 100

52 103.3 65.2 97.8#

51 39.5 28.2 42.2





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

Instrument :

MSVOA_X

ClientSampleId :

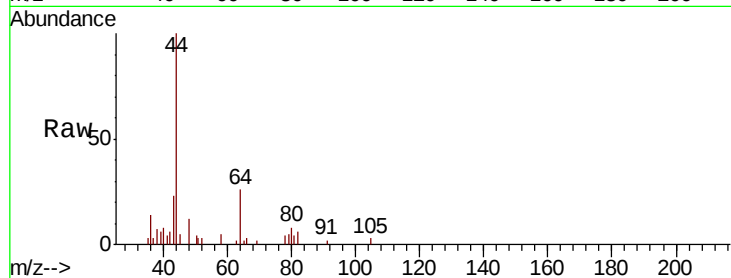
VX0907WBL01

Tot Ion: 43 Resp: 1294

Ion Ratio Lower Upper

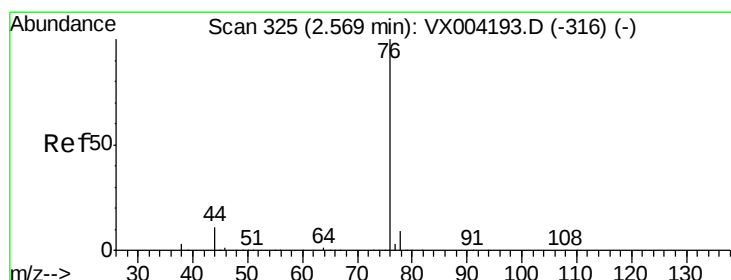
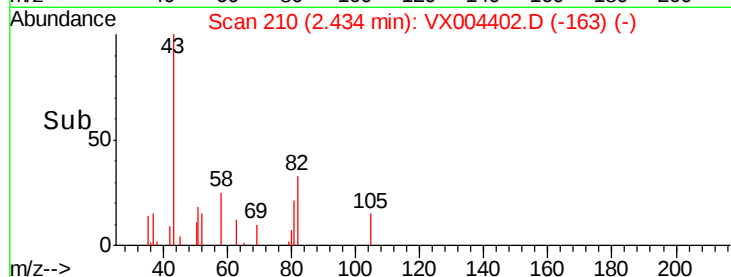
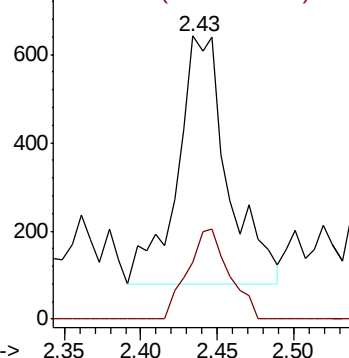
43 100

58 23.2 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.16 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004402.D

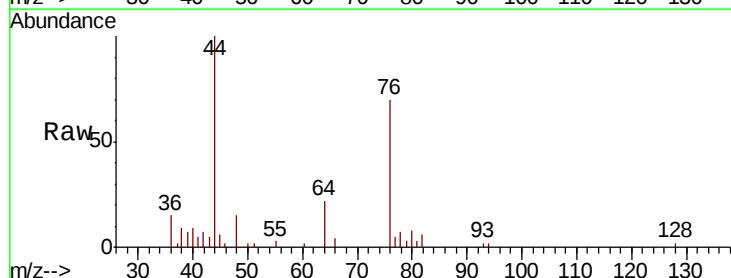
Acq: 07 Sep 2018 12:24

Tgt Ion: 76 Resp: 3145

Ion Ratio Lower Upper

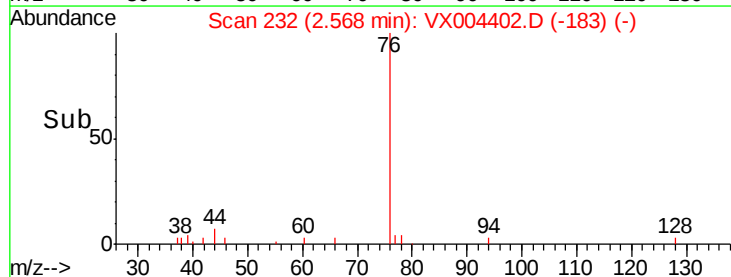
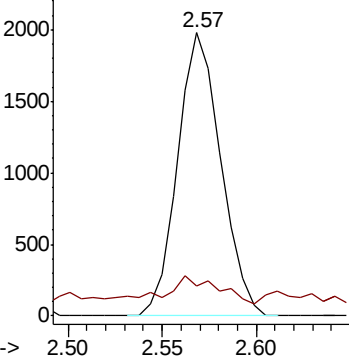
76 100

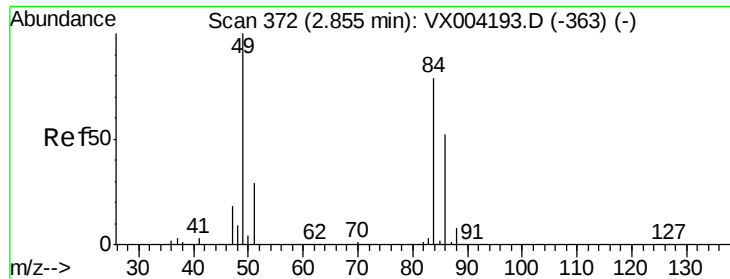
78 3.5 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

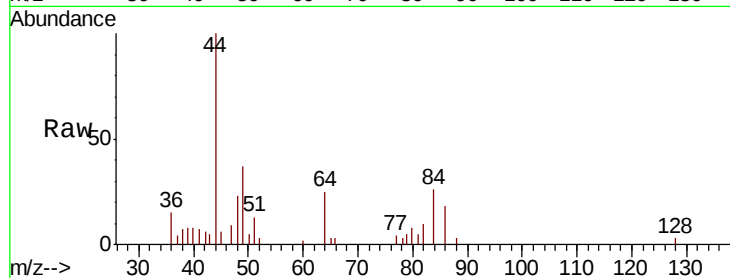




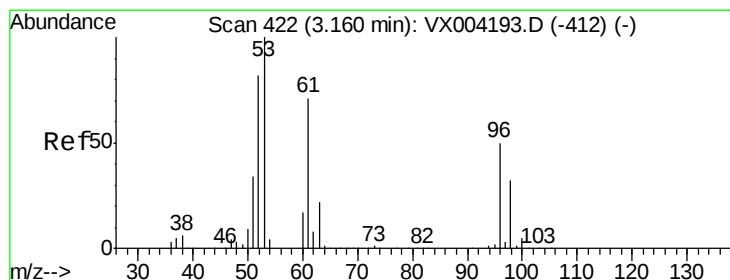
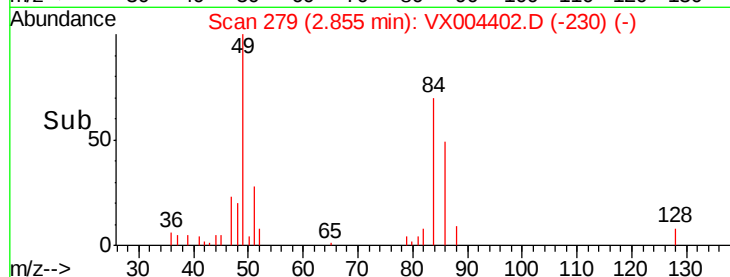
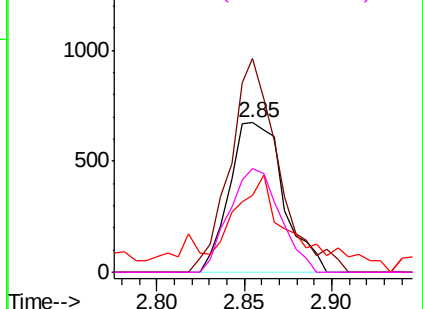
#20
Methvlene Chloride
Concen: 0.39 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004402.D
Acq: 07 Sep 2018 12:24

Instrument :
MSVOA_X
ClientSampleId :
VX0907WBL01

Tot Ion: 84 Resp: 1453
Ion Ratio Lower Upper
84 100
49 142.9 101.2 151.8
51 34.9 29.5 44.3
86 69.7 52.3 78.5

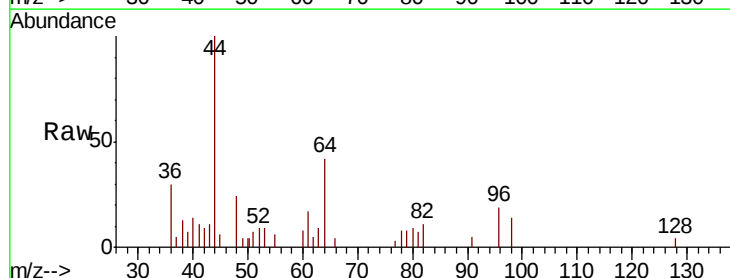


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

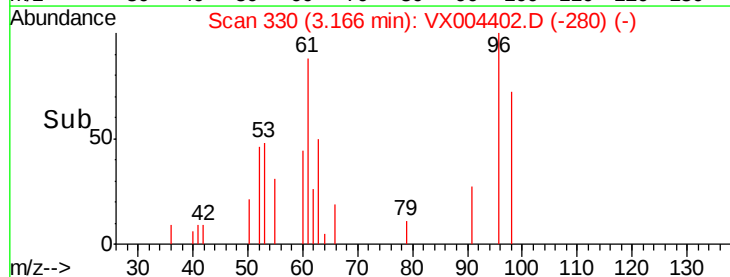
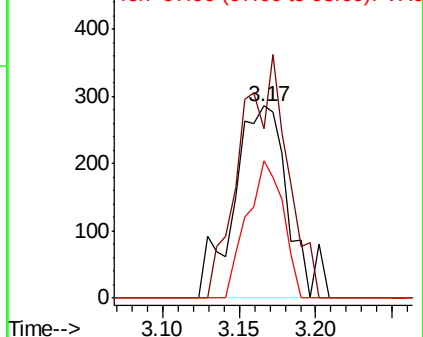


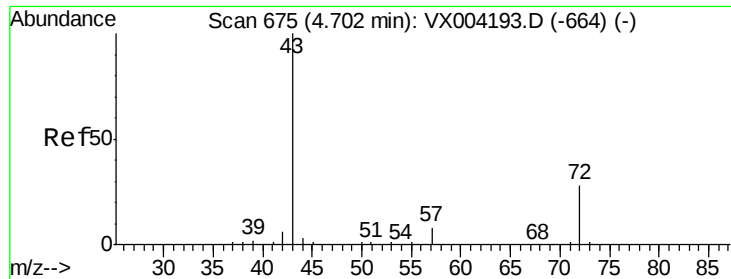
#21
trans-1,2-Dichloroethene
Concen: 0.20 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.01 min
Lab File: VX004402.D
Acq: 07 Sep 2018 12:24

Tgt Ion: 96 Resp: 703
Ion Ratio Lower Upper
96 100
61 87.8 113.8 170.6#
98 71.7 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

Instrument :

MSVOA_X

ClientSampleId :

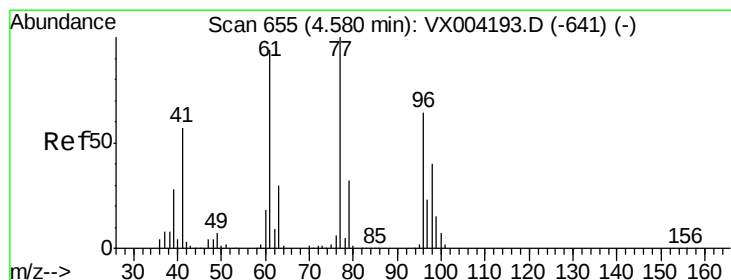
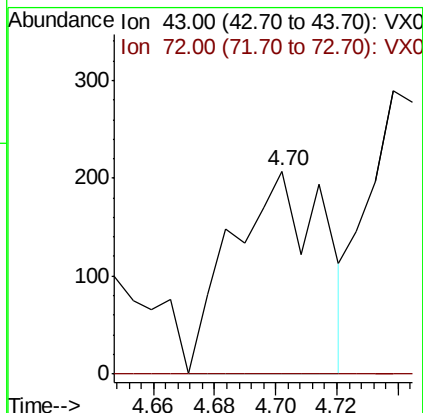
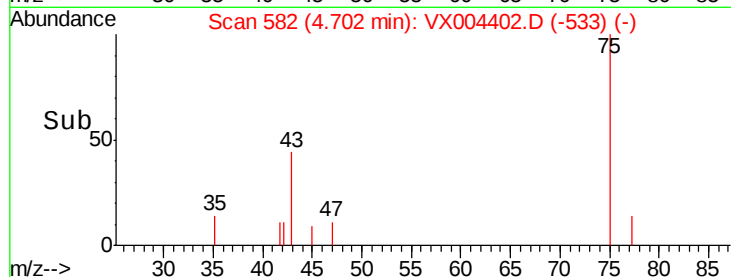
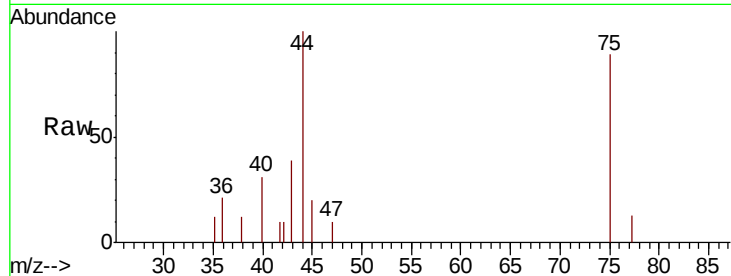
VX0907WBL01

Tot Ion: 43 Resp: 428

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#26

2,2-Dichloropropane

Concen: 0.22 ug/l

RT: 4.75 min Scan# 590

Delta R.T. 0.17 min

Lab File: VX004402.D

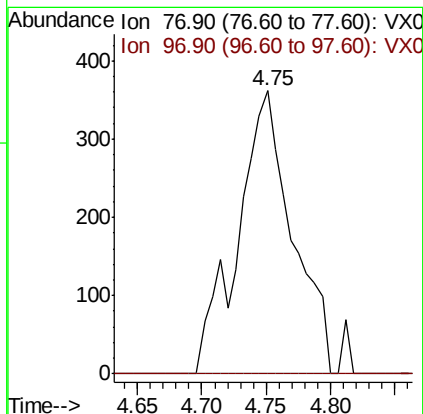
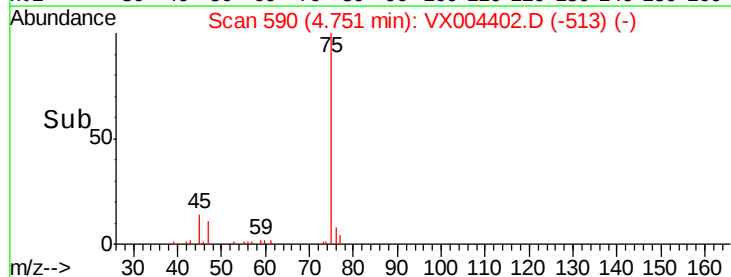
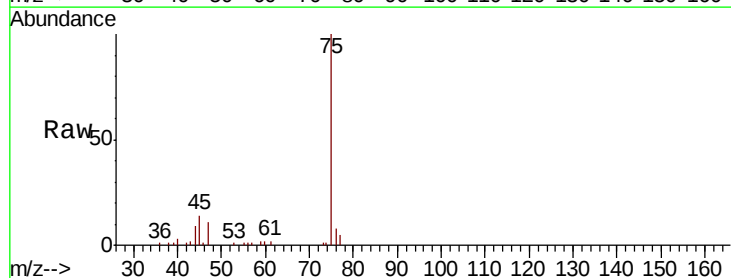
Acq: 07 Sep 2018 12:24

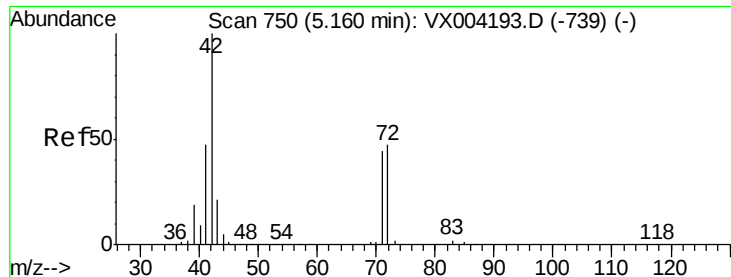
Tgt Ion: 77 Resp: 1064

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#





#29

Tetrahydrofuran

Concen: 0.73 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.01 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

Instrument :

MSVOA_X

ClientSampleId :

VX0907WBL01

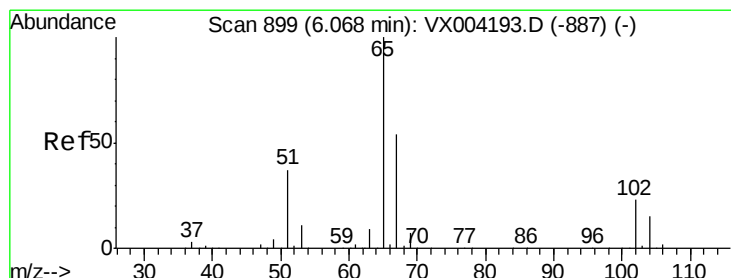
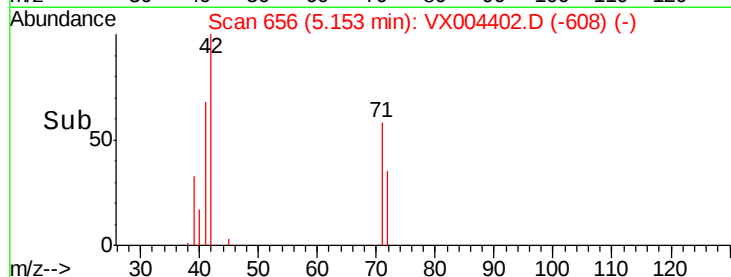
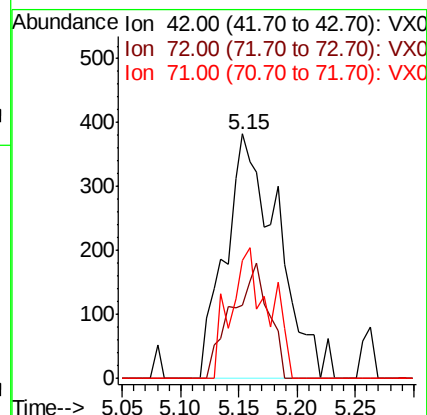
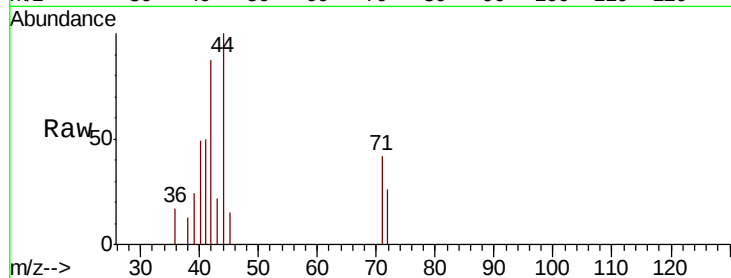
Tot Ion: 42 Resp: 1203

Ion Ratio Lower Upper

42 100

72 32.3 37.4 56.0#

71 38.3 34.5 51.7



#33

1,2-Dichloroethane-d4

Concen: 51.77 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX004402.D

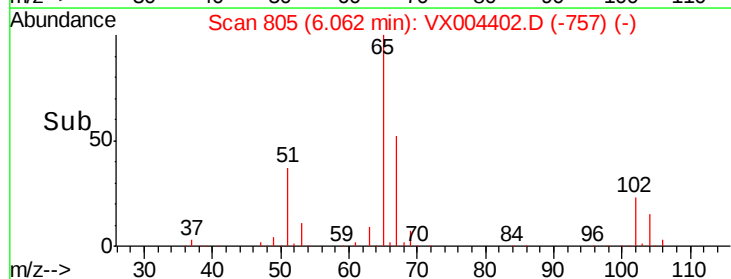
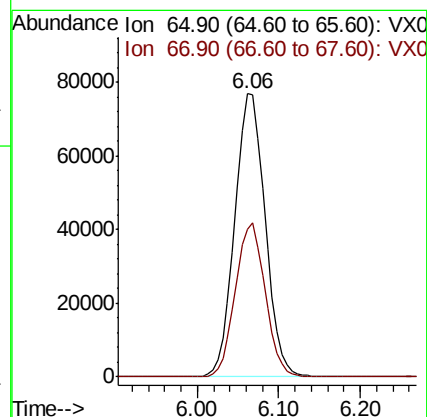
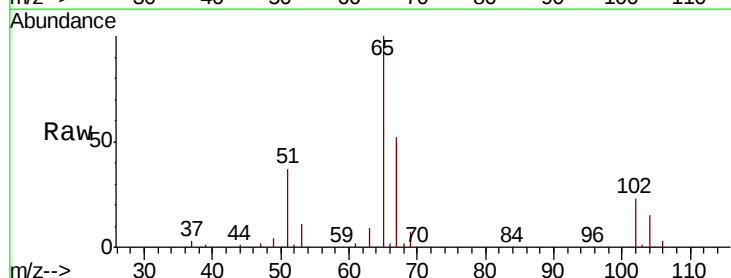
Acq: 07 Sep 2018 12:24

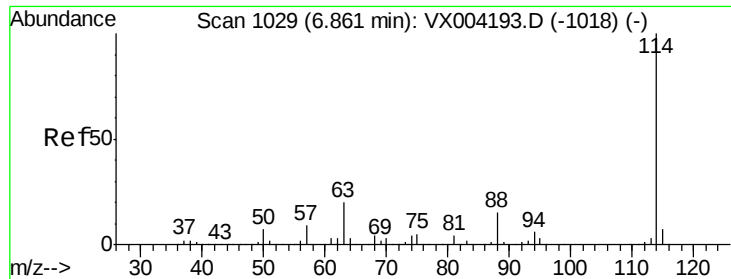
Tgt Ion: 65 Resp: 198277

Ion Ratio Lower Upper

65 100

67 53.5 0.0 106.8

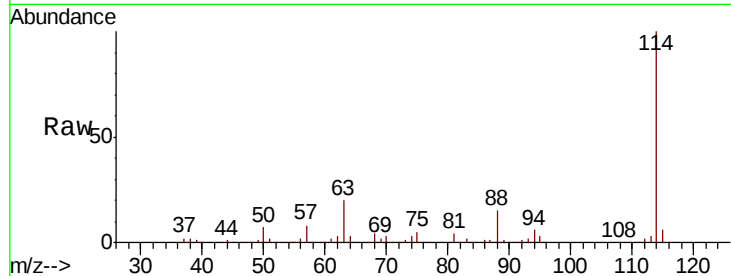




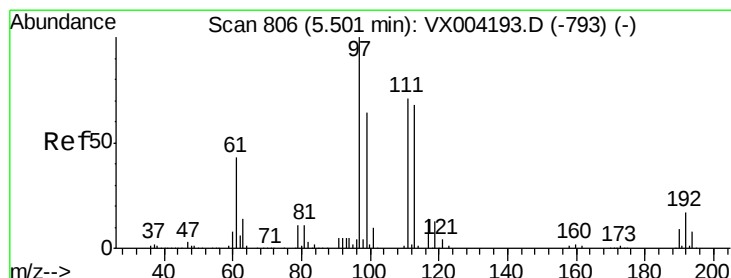
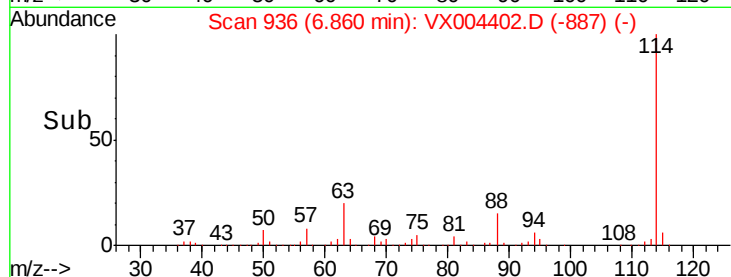
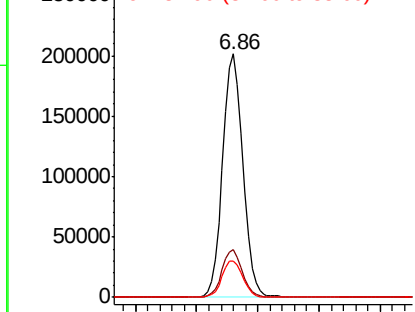
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004402.D
 Acq: 07 Sep 2018 12:24

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0907WBL01

Tot Ion:114 Resp: 464075
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.2 0.0 30.4

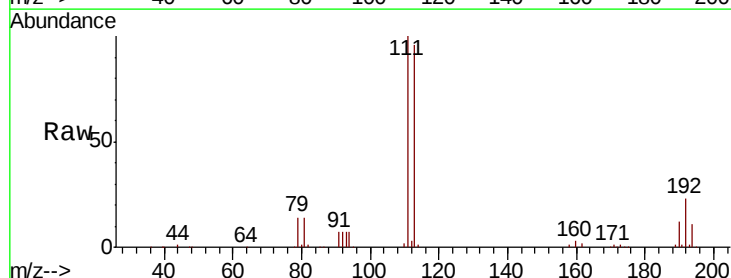


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

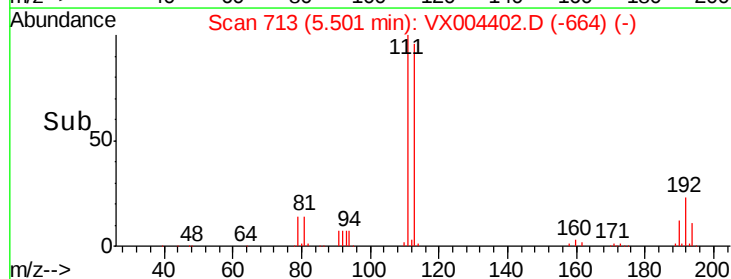
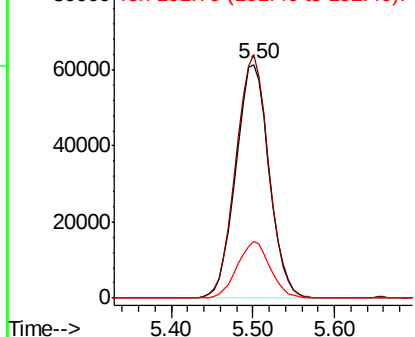


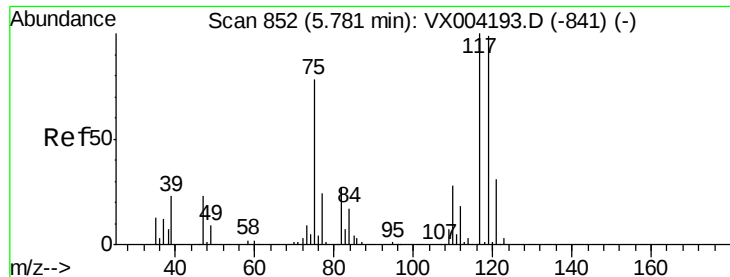
#35
 Dibromofluoromethane
 Concen: 50.43 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004402.D
 Acq: 07 Sep 2018 12:24

Tgt Ion:113 Resp: 174109
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.4 123.6
 192 23.9 19.4 29.2



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





#38

Carbon Tetrachloride

Concen: 5.26 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

Instrument :

MSVOA_X

ClientSampled :

VX0907WBL01

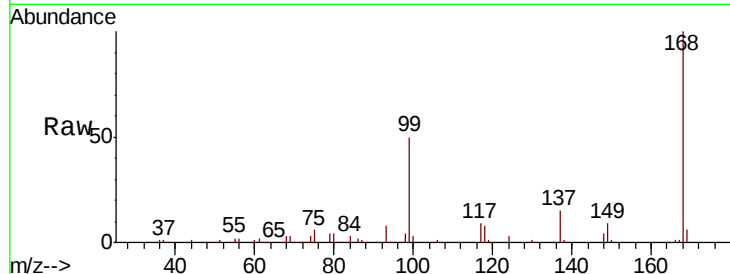
Tot Ion:117 Resp: 25810

Ion Ratio Lower Upper

117 100

119 5.6 78.8 118.2#

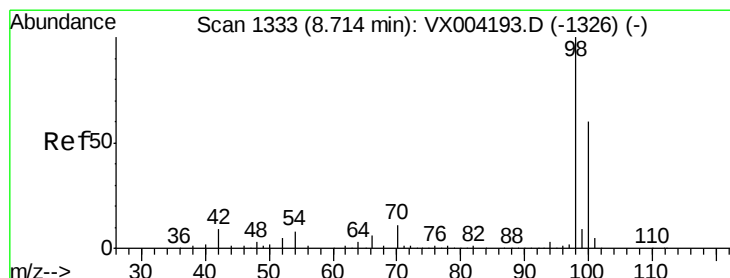
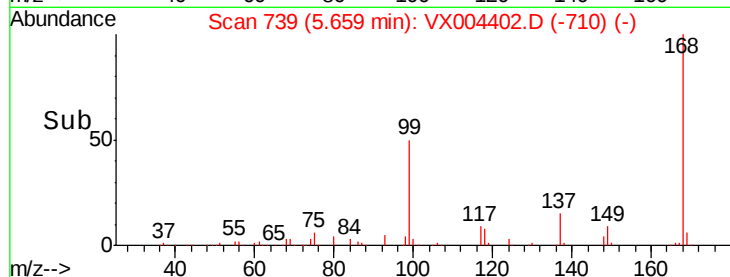
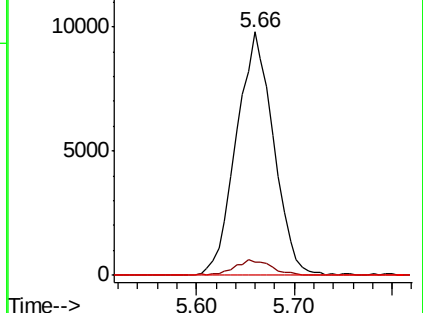
121 0.0 24.9 37.3#



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: 49.52 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004402.D

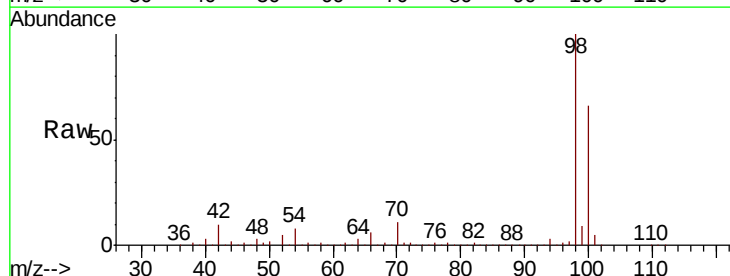
Acq: 07 Sep 2018 12:24

Tgt Ion: 98 Resp: 645273

Ion Ratio Lower Upper

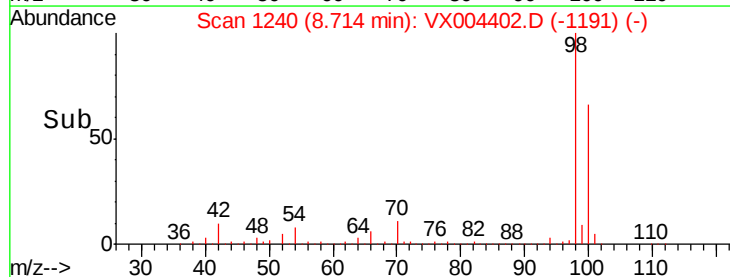
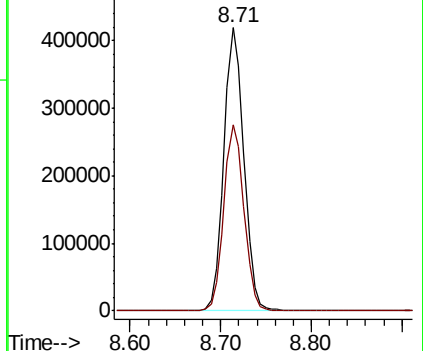
98 100

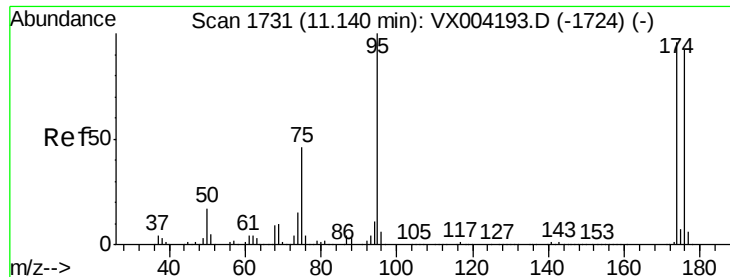
100 66.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

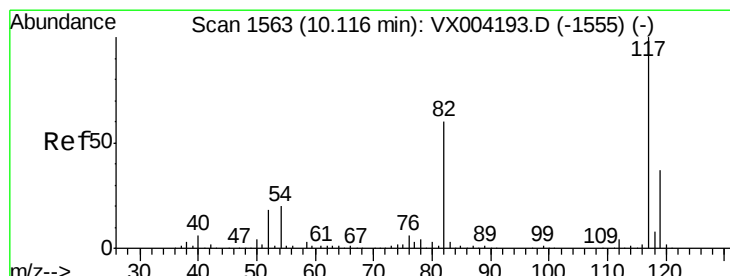
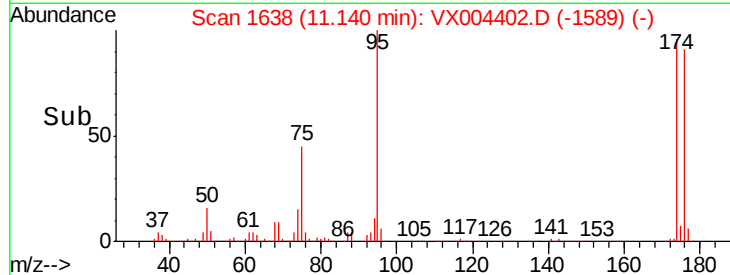
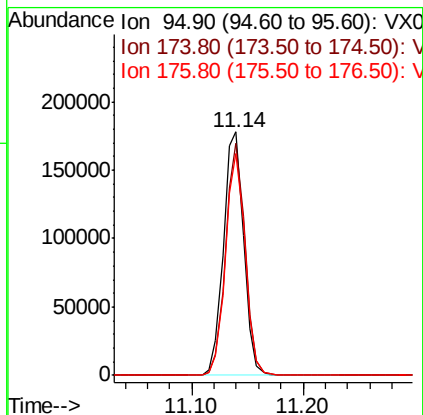
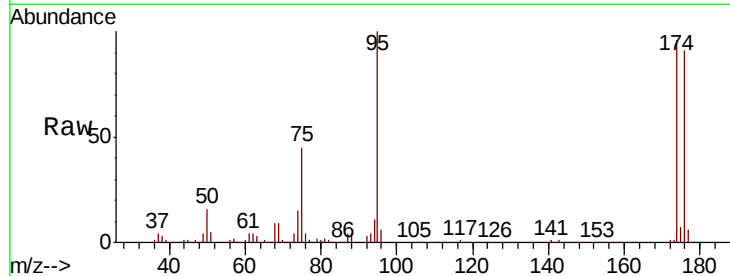




#62
4-Bromofluorobenzene
Concen: 46.07 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004402.D
Acq: 07 Sep 2018 12:24

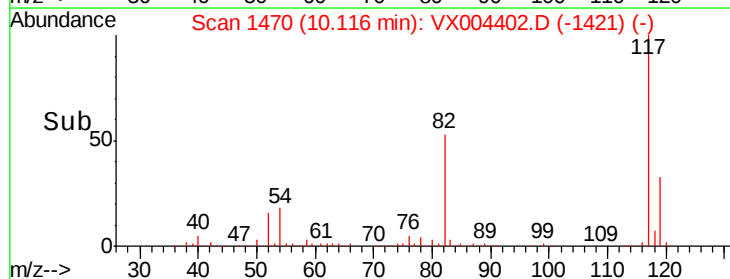
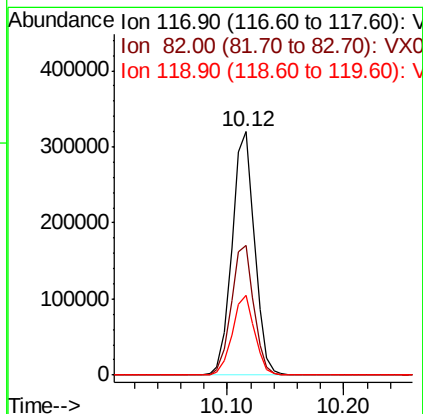
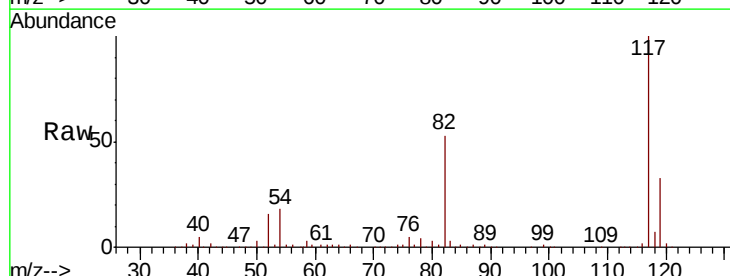
Instrument :
MSVOA_X
ClientSampleId :
VX0907WBL01

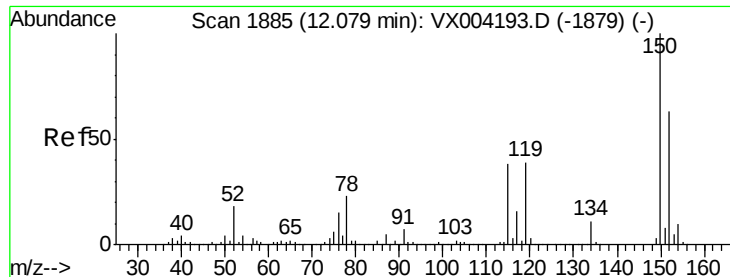
Tot Ion: 95 Resp: 224036
Ion Ratio Lower Upper
95 100
174 92.4 0.0 185.2
176 88.2 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004402.D
Acq: 07 Sep 2018 12:24

Tgt Ion: 117 Resp: 431439
Ion Ratio Lower Upper
117 100
82 53.1 47.8 71.6
119 33.0 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

Instrument :

MSVOA_X

ClientSampleId :

VX0907WBL01

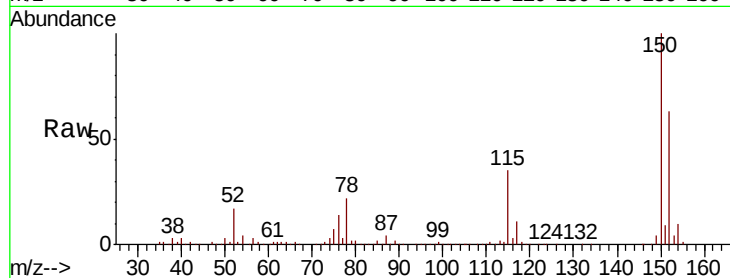
Tot Ion:152 Resp: 230748

Ion Ratio Lower Upper

152 100

115 55.5 39.0 117.0

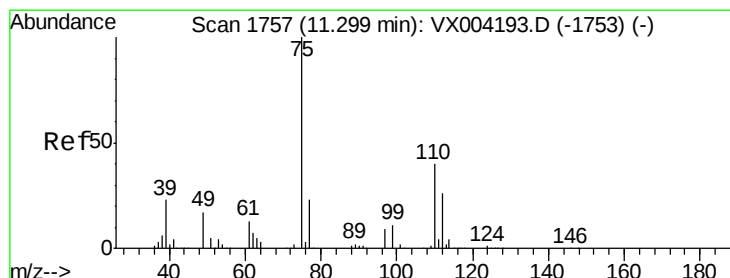
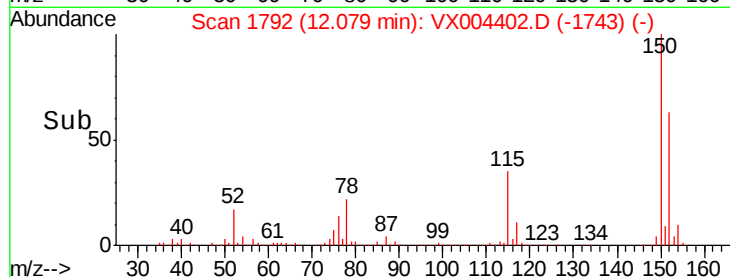
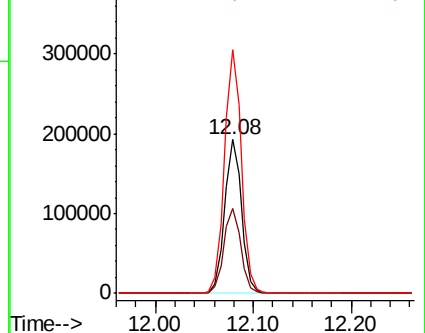
150 158.4 0.0 351.0



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: 22.50 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX004402.D

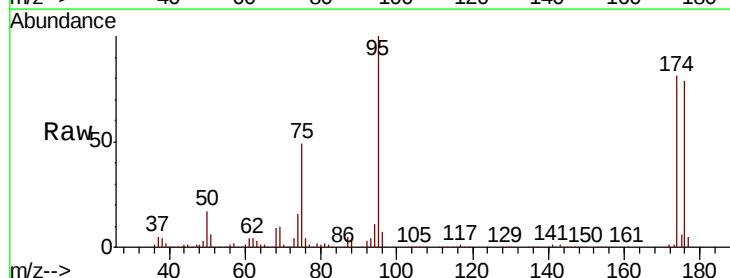
Acq: 07 Sep 2018 12:24

Tgt Ion: 75 Resp: 105615

Ion Ratio Lower Upper

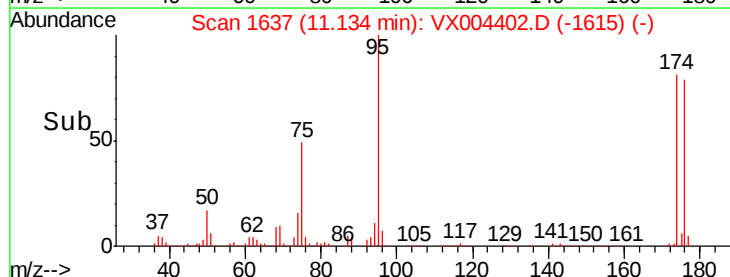
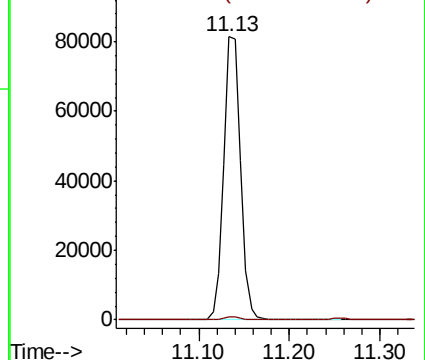
75 100

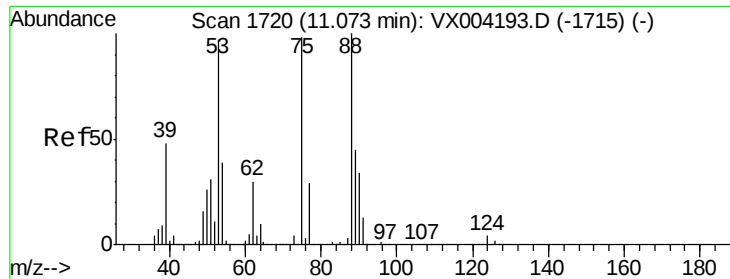
77 1.4 20.2 60.6#



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: 73.02 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

Instrument :

MSVOA_X

ClientSampled :

VX0907WBL01

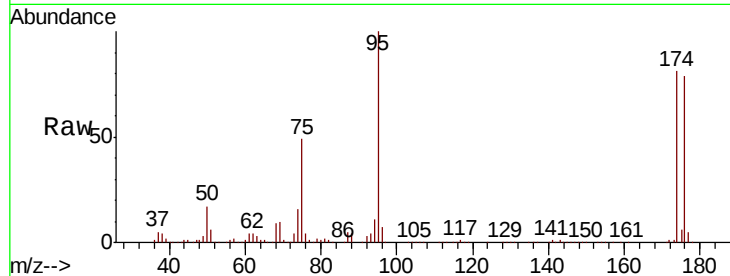
Tot Ion: 75 Resp: 105615

Ion Ratio Lower Upper

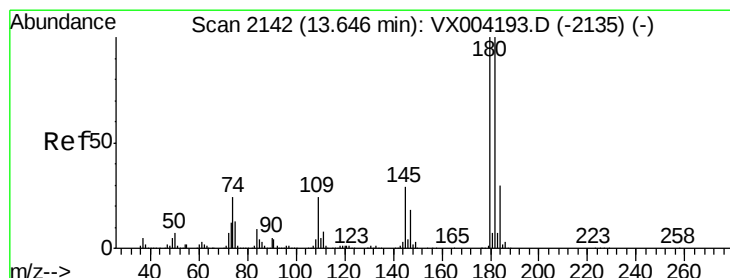
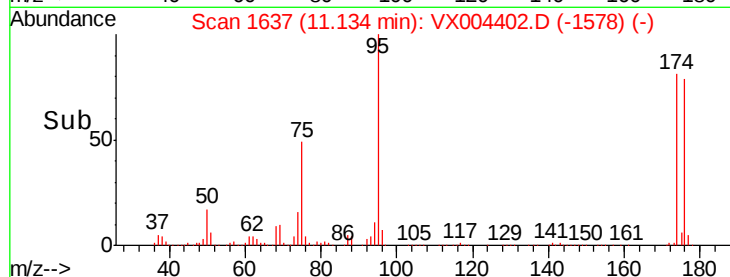
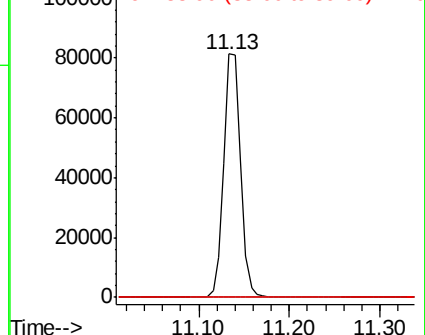
75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.25 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX004402.D

Acq: 07 Sep 2018 12:24

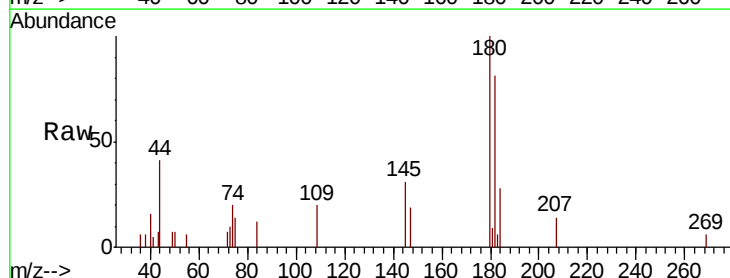
Tgt Ion:180 Resp: 1351

Ion Ratio Lower Upper

180 100

182 85.6 48.4 145.0

145 26.4 14.3 42.9



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

