

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072118\
 Data File : VX003576.D
 Acq On : 22 Jul 2018 01:56
 Operator : JC/SP
 Sample : J4070-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LC-SD-EB02-180718

Quant Time: Jul 23 03:49:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	275625	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	407650	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	386949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	214747	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	176864	54.21	ug/l	0.00
Spiked Amount			Recovery	=	108.42%	
35) Dibromofluoromethane	5.50	113	166857	53.74	ug/l	0.00
Spiked Amount			Recovery	=	107.48%	
50) Toluene-d8	8.72	98	582783	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	11.14	95	199526	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	

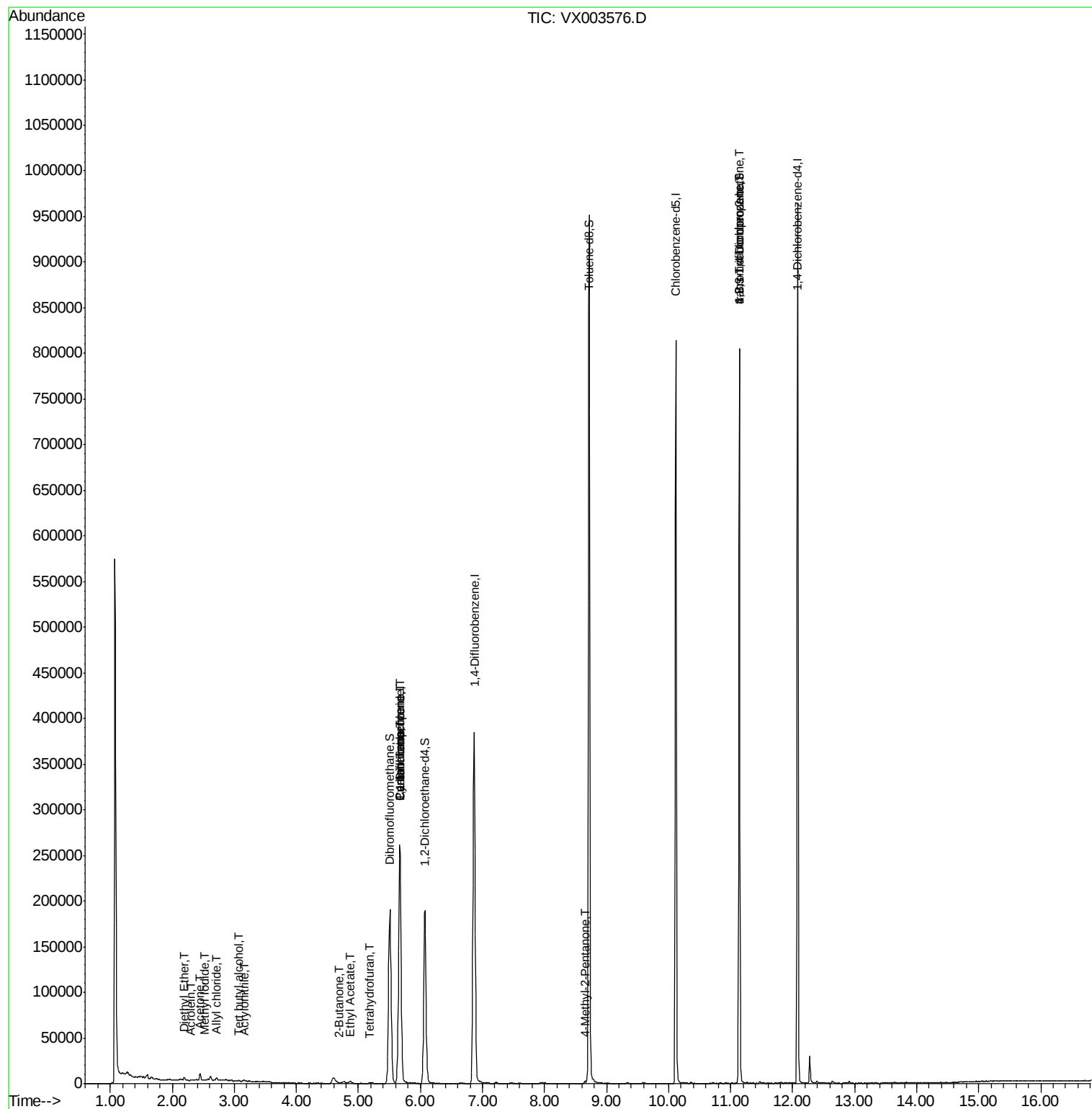
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	480	Below Cal	#	59
5) Bromomethane	1.67	94	1266	Below Cal	#	76
8) Diethyl Ether	2.19	74	1451	0.72	ug/l	97
10) Methyl Iodide	2.52	142	951	0.26	ug/l	# 93
11) Tert butyl alcohol	3.07	59	1060	1.64	ug/l	# 94
13) Acrolein	2.29	56	107	0.37	ug/l	# 14
14) Allyl chloride	2.71	41	2849	0.57	ug/l	# 44
15) Acrylonitrile	3.15	53	994	0.60	ug/l	# 90
16) Acetone	2.45	43	7799	6.33	ug/l	# 83
20) Methylene Chloride	2.86	84	288	Below Cal	#	84
25) 2-Butanone	4.70	43	1326	0.64	ug/l	94
29) Tetrahydrofuran	5.18	42	294	0.22	ug/l	# 41
31) Cyclohexane	5.66	56	4374	0.89	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16604	3.77	ug/l	# 50
37) Ethyl Acetate	4.87	43	3778	0.91	ug/l	# 86
38) Carbon Tetrachloride	5.67	117	23661	5.48	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.65	43	1486	0.36	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	92968	24.10	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92968	67.57	ug/l	# 7

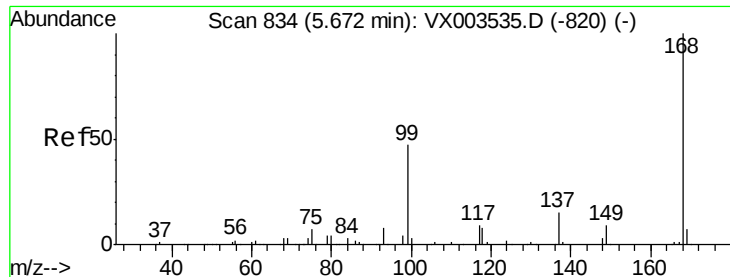
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

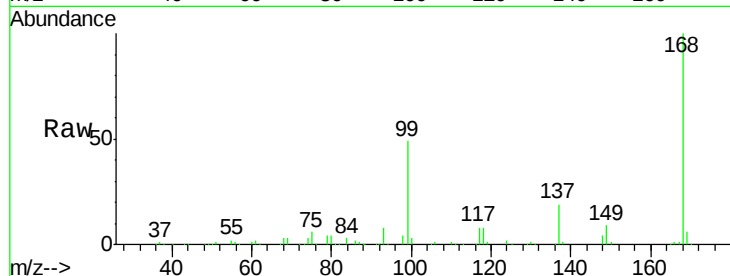
LC-SD-EB02-180718

Tot Ion:168 Resp: 275625

Ion Ratio Lower Upper

168 100

99 49.0 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

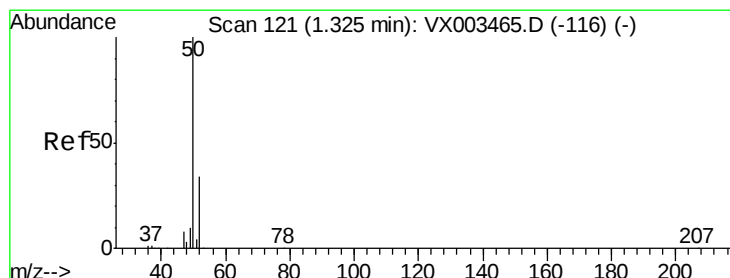
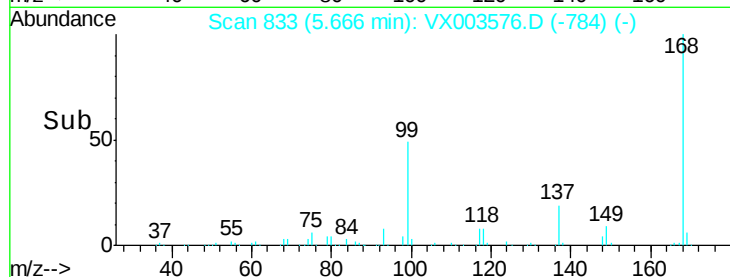
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003576.D

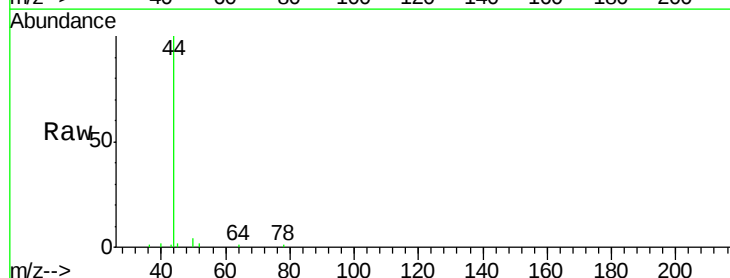
Acq: 22 Jul 2018 01:56

Tgt Ion: 50 Resp: 480

Ion Ratio Lower Upper

50 100

52 55.1 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

400

300

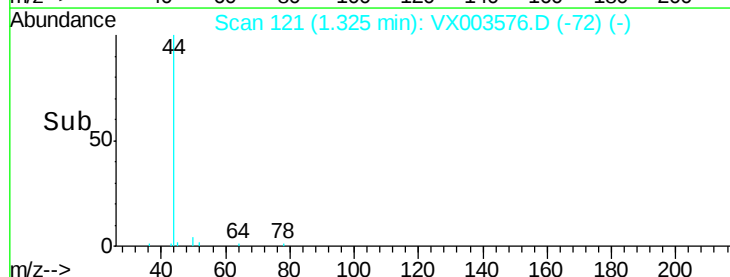
200

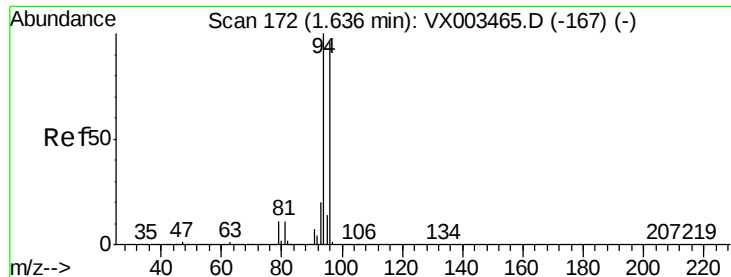
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

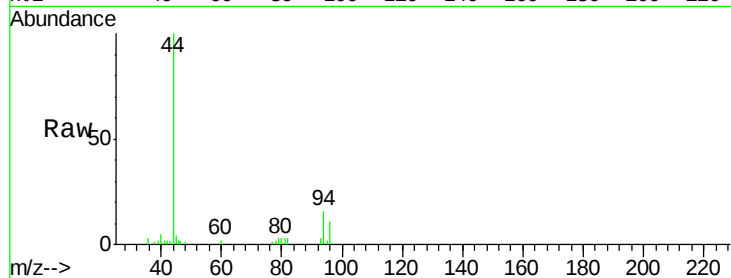
LC-SD-EB02-180718

Tot Ion: 94 Resp: 1266

Ion Ratio Lower Upper

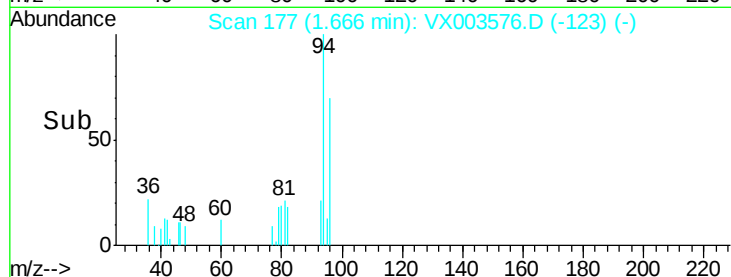
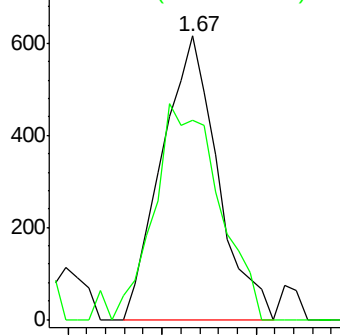
94 100

96 70.3 74.9 112.3#

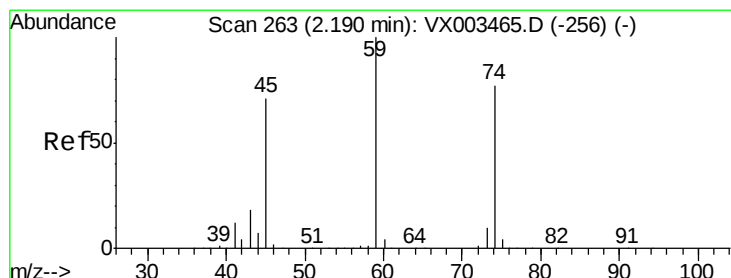


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#8

Diethyl Ether

Concen: 0.72 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003576.D

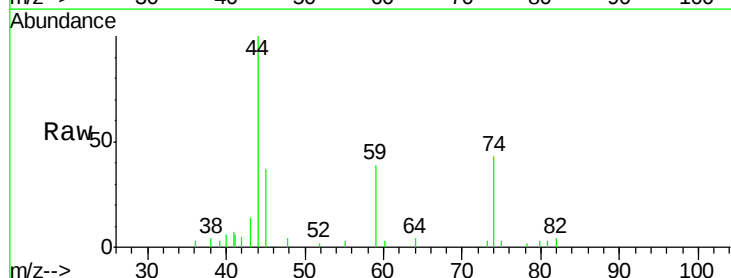
Acq: 22 Jul 2018 01:56

Tgt Ion: 74 Resp: 1451

Ion Ratio Lower Upper

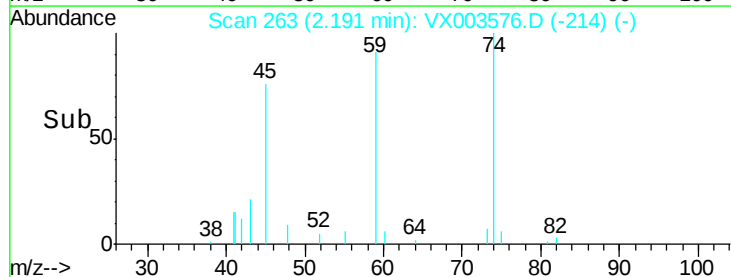
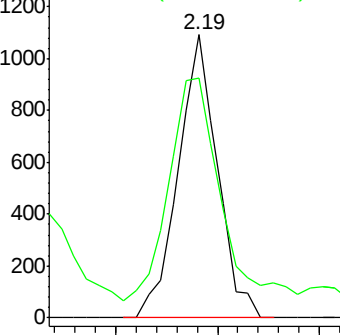
74 100

45 103.1 53.1 159.4

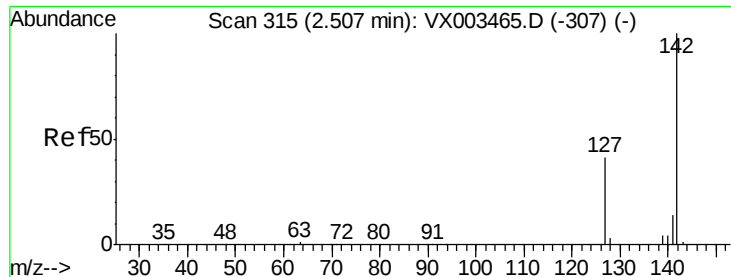


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



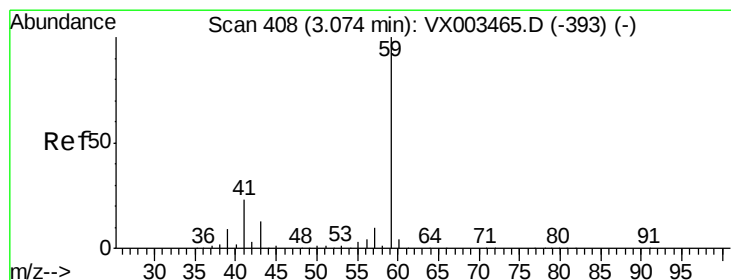
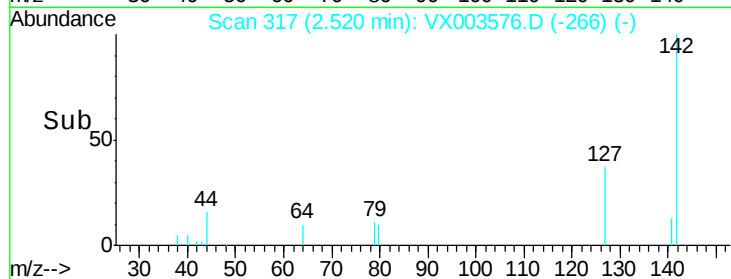
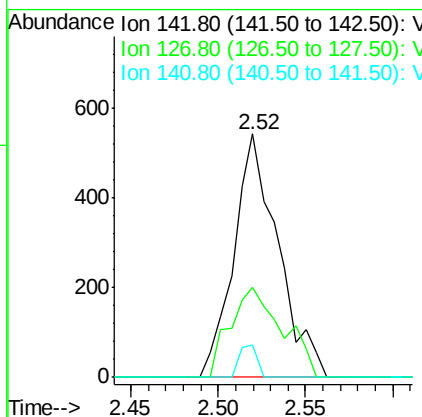
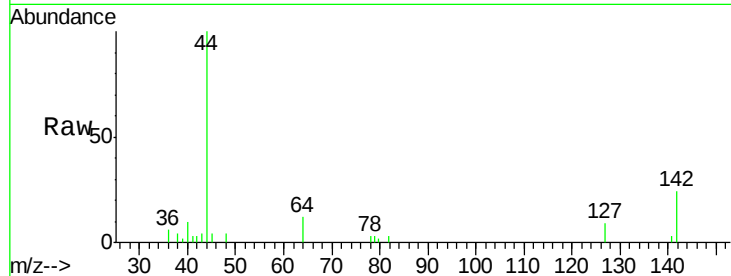
Time-->



#10
Methvl Iodide
Concen: 0.26 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003576.D
Acq: 22 Jul 2018 01:56

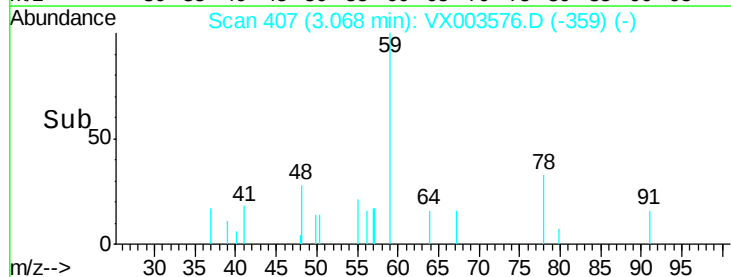
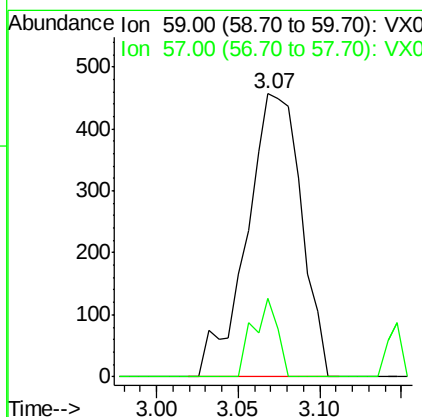
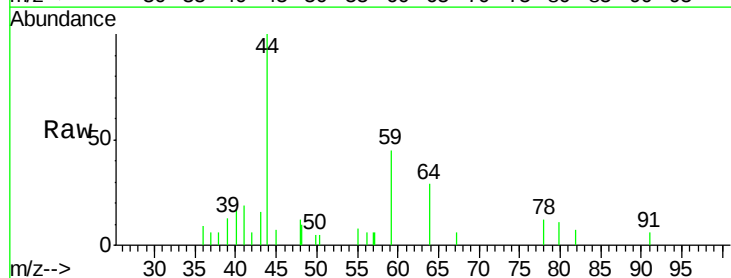
Instrument :
MSVOA_X
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LC-SD-EB02-180718

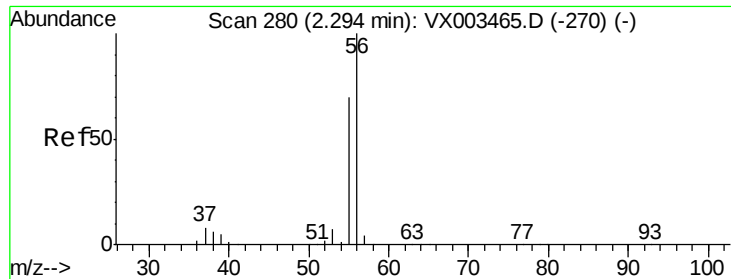
Tot Ion:142 Resp: 951
Ion Ratio Lower Upper
142 100
127 43.8 36.6 55.0
141 5.5 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.64 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003576.D
Acq: 22 Jul 2018 01:56

Tgt Ion: 59 Resp: 1060
Ion Ratio Lower Upper
59 100
57 12.5 8.2 12.2#

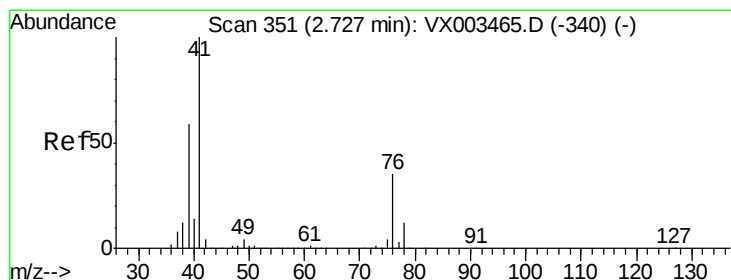
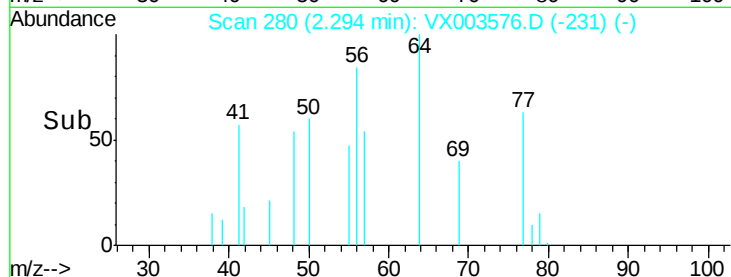
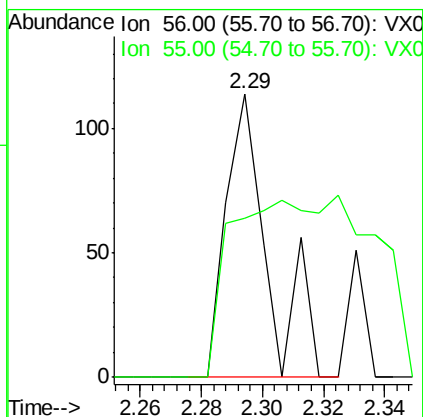
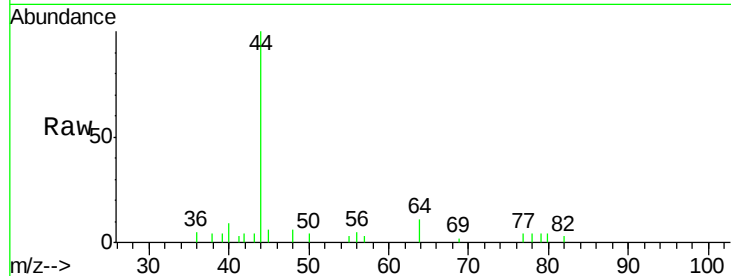




#13
 Acrolein
 Concen: 0.37 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX003576.D
 Acq: 22 Jul 2018 01:56

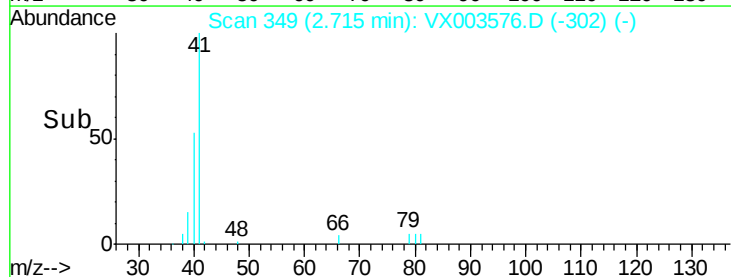
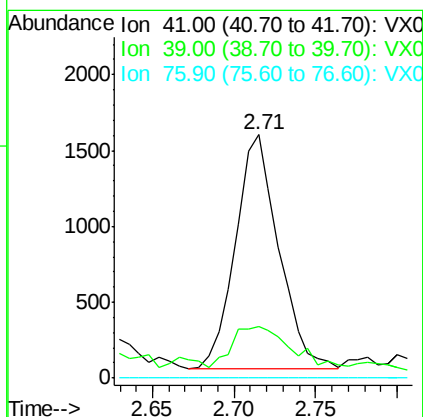
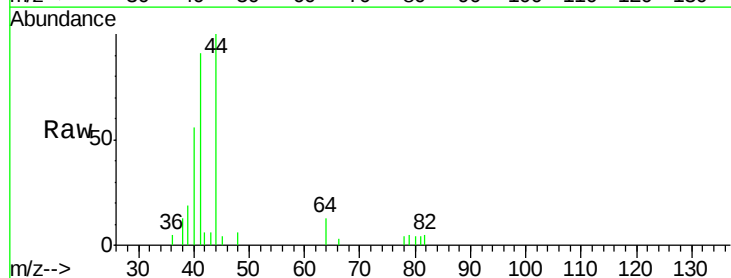
Instrument :
 MSVOA_X
 ClientSampleId :
 LC-SD-EB02-180718

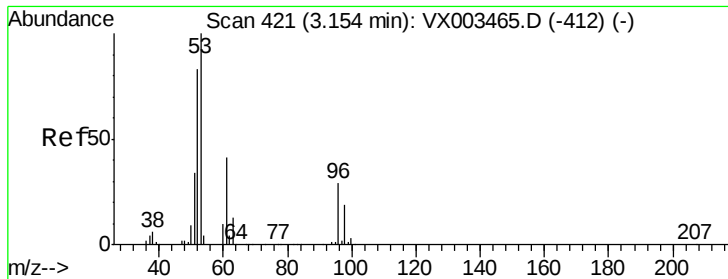
Tot Ion: 56 Resp: 107
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#



#14
 Allyl chloride
 Concen: 0.57 ug/l
 RT: 2.71 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VX003576.D
 Acq: 22 Jul 2018 01:56

Tgt Ion: 41 Resp: 2849
 Ion Ratio Lower Upper
 41 100
 39 24.7 56.8 85.2#
 76 0.0 23.8 35.8#





#15

Acrylonitrile

Concen: 0.60 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB02-180718

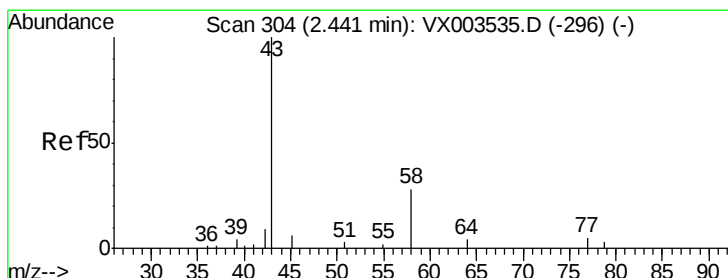
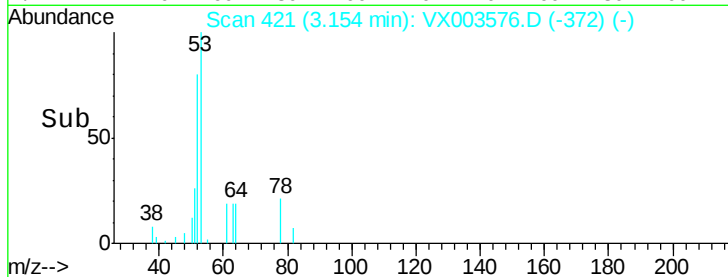
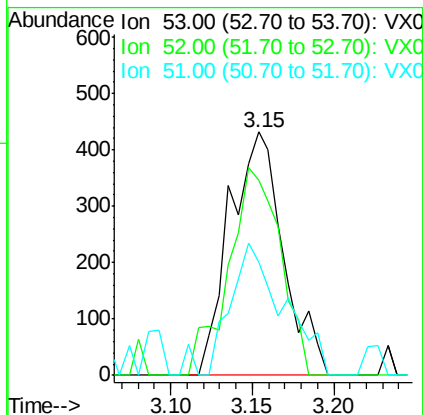
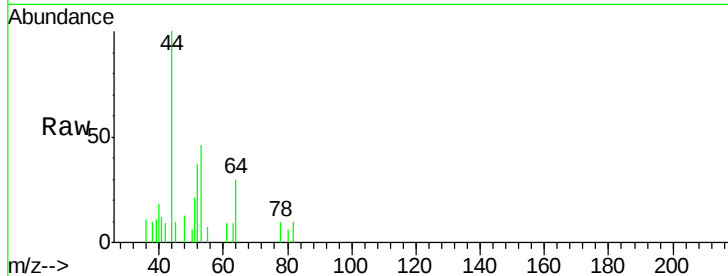
Tot Ion: 53 Resp: 994

Ion Ratio Lower Upper

53 100

52 81.6 66.7 100.1

51 53.2 29.9 44.9#



#16

Acetone

Concen: 6.33 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003576.D

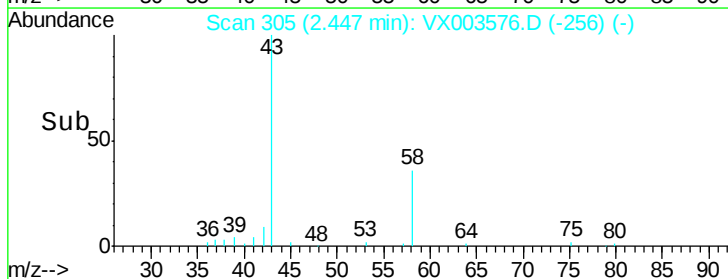
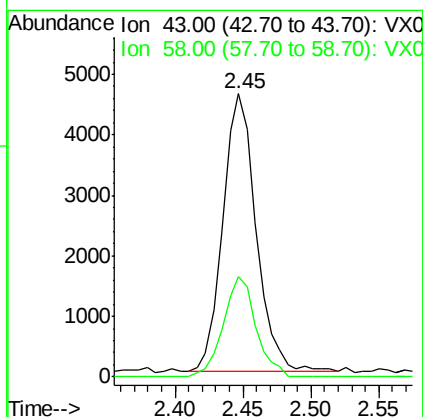
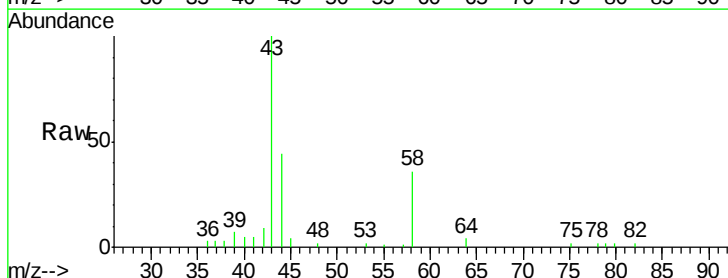
Acq: 22 Jul 2018 01:56

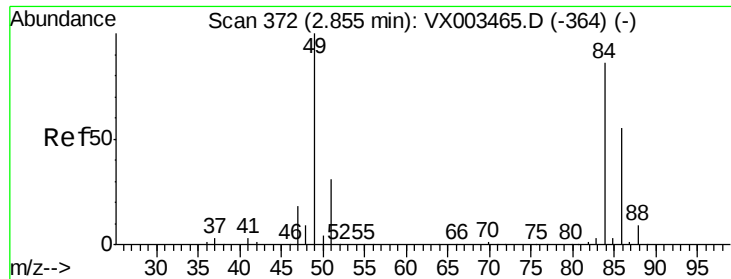
Tgt Ion: 43 Resp: 7799

Ion Ratio Lower Upper

43 100

58 36.3 22.1 33.1#

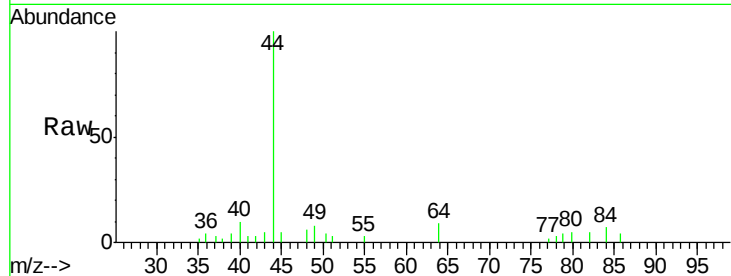




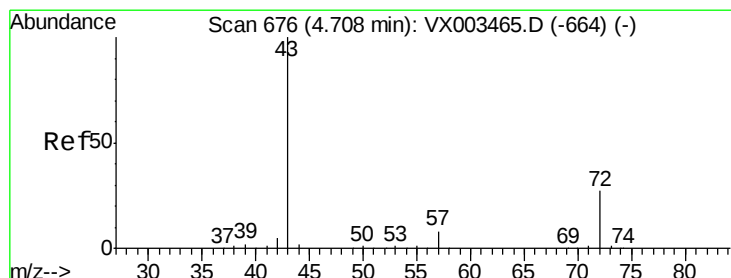
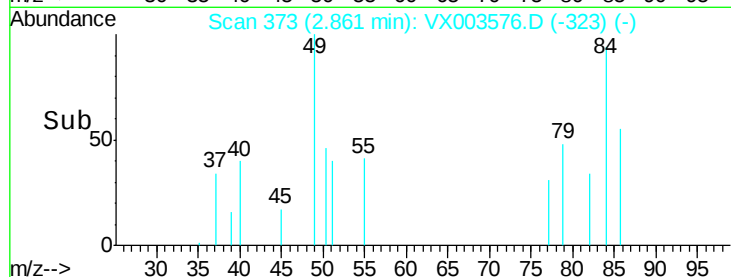
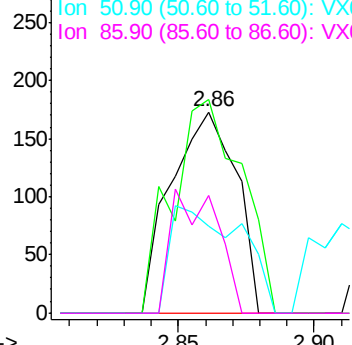
#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003576.D
Acq: 22 Jul 2018 01:56

Instrument :
MSVOA_X
ClientSampleId :
LC-SD-EB02-180718

Tot Ion: 84 Resp: 288
Ion Ratio Lower Upper
84 100
49 106.4 107.8 161.6#
51 42.8 32.8 49.2
86 58.4 52.5 78.7

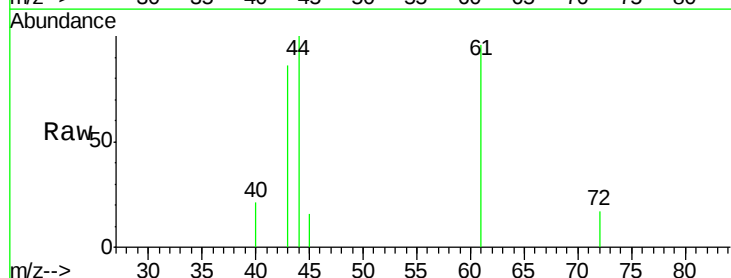


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

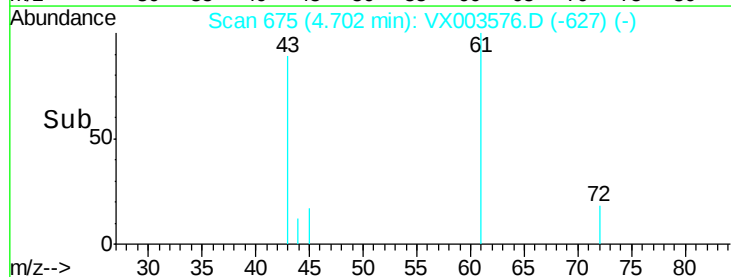
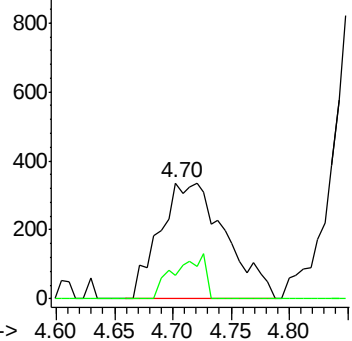


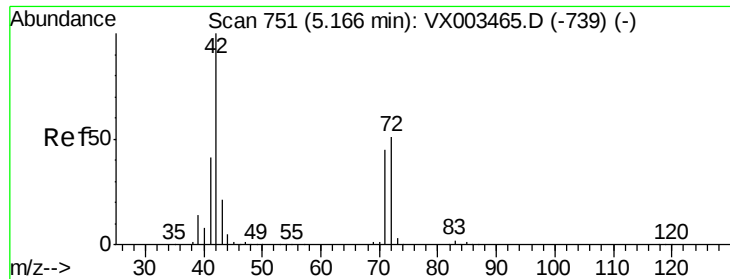
#25
2-Butanone
Concen: 0.64 ug/l
RT: 4.70 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX003576.D
Acq: 22 Jul 2018 01:56

Tgt Ion: 43 Resp: 1326
Ion Ratio Lower Upper
43 100
72 20.2 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.22 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB02-180718

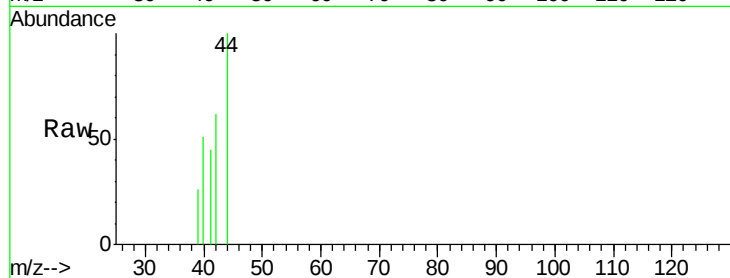
Tot Ion: 42 Resp: 294

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

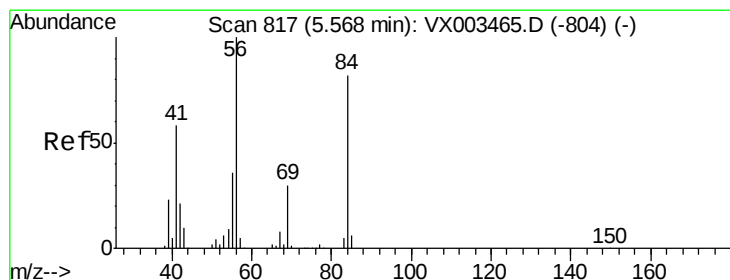
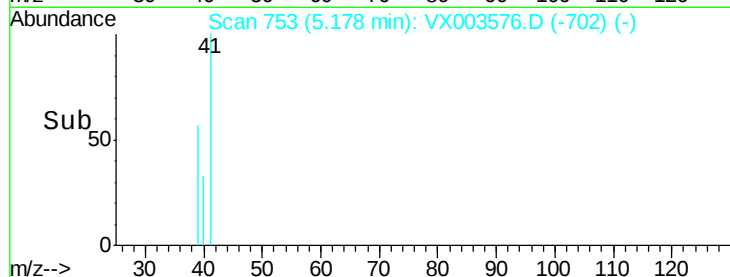
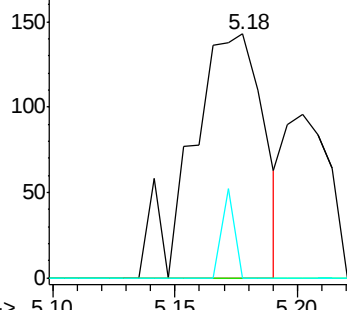
71 6.5 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 0.89 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.09 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

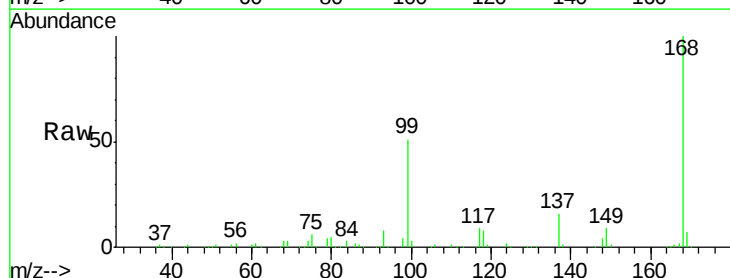
Tgt Ion: 56 Resp: 4374

Ion Ratio Lower Upper

56 100

69 187.1 23.7 35.5#

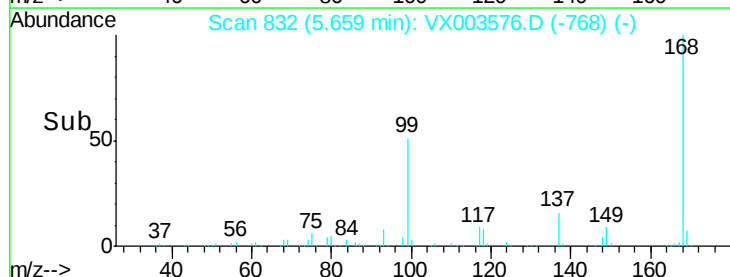
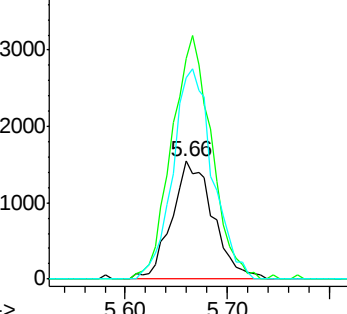
84 170.8 64.1 96.1#

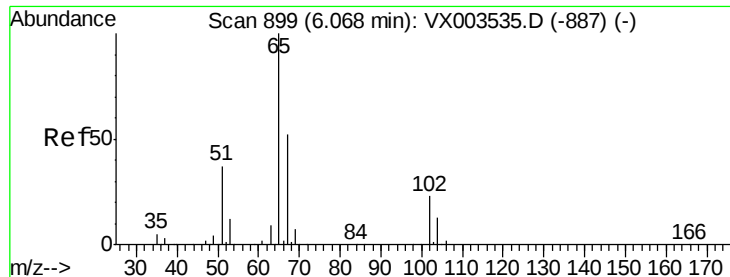


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.21 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

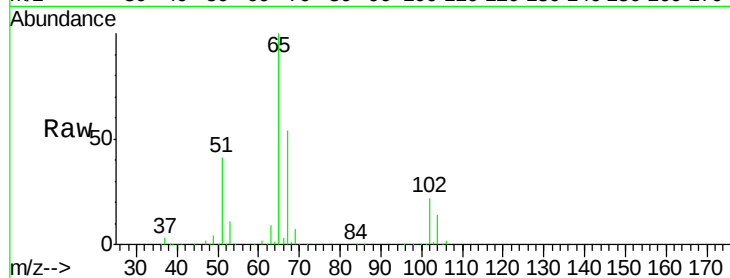
LC-SD-EB02-180718

Tot Ion: 65 Resp: 176864

Ion Ratio Lower Upper

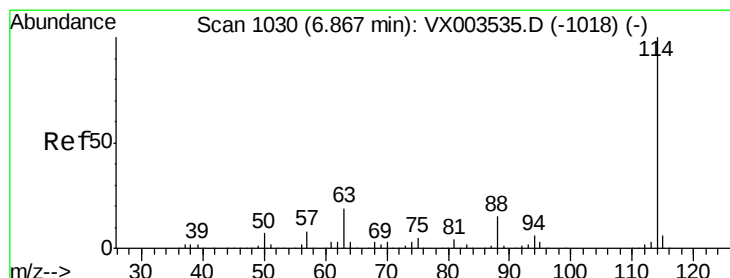
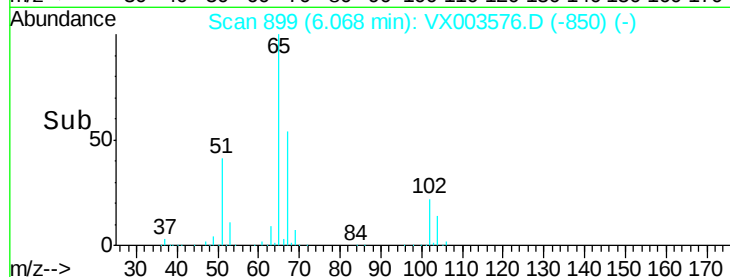
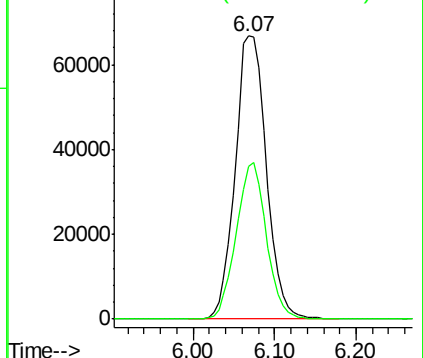
65 100

67 53.4 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: VX003576.D

Acq: 22 Jul 2018 01:56

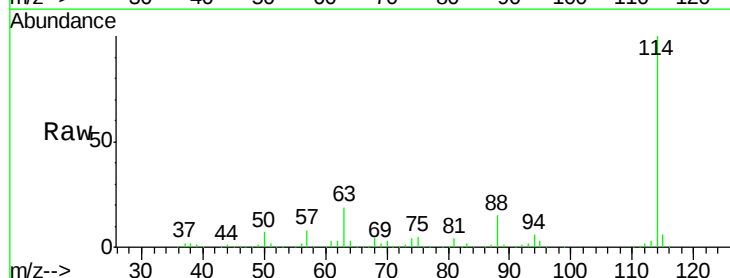
Tgt Ion: 114 Resp: 407650

Ion Ratio Lower Upper

114 100

63 18.6 0.0 41.4

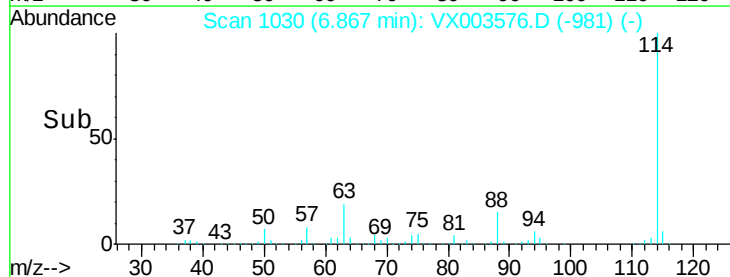
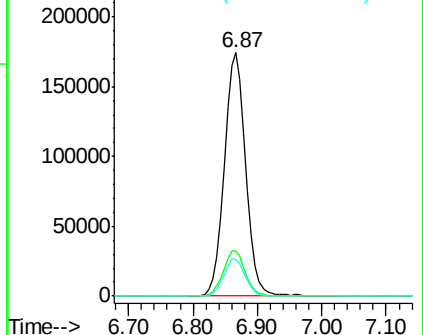
88 14.8 0.0 30.0

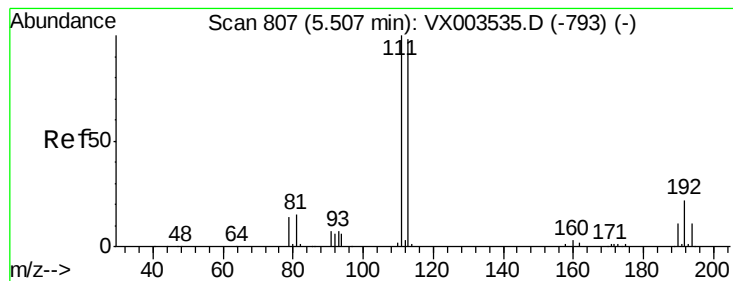


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 53.74 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB02-180718

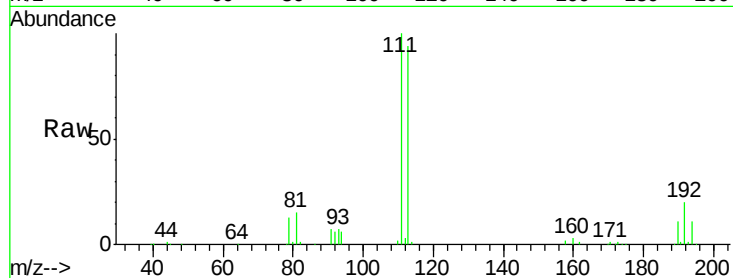
Tot Ion:113 Resp: 166857

Ion Ratio Lower Upper

113 100

111 104.4 81.4 122.0

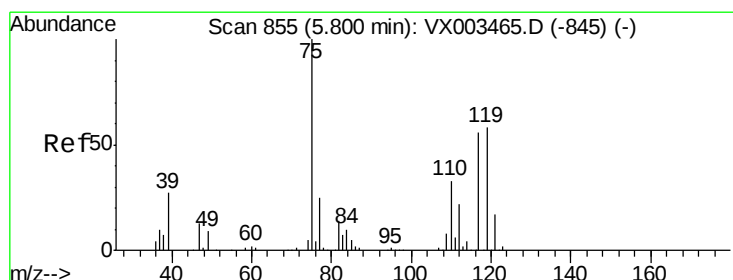
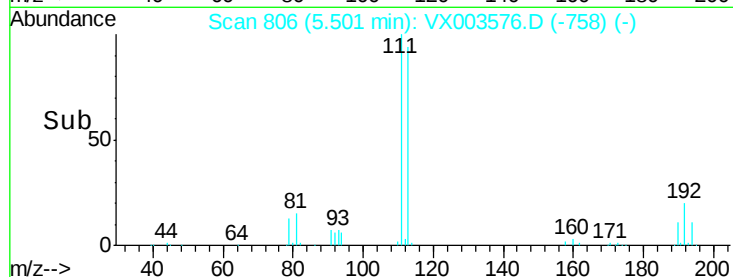
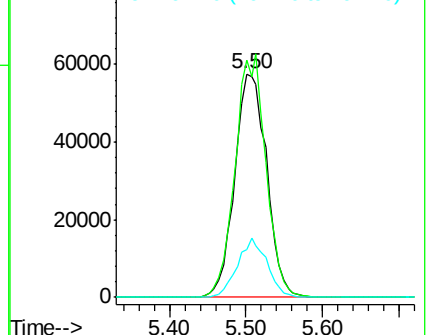
192 24.6 19.1 28.7



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: 3.77 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

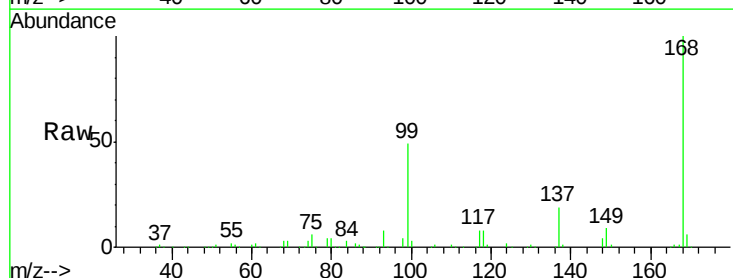
Tgt Ion: 75 Resp: 16604

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.4#

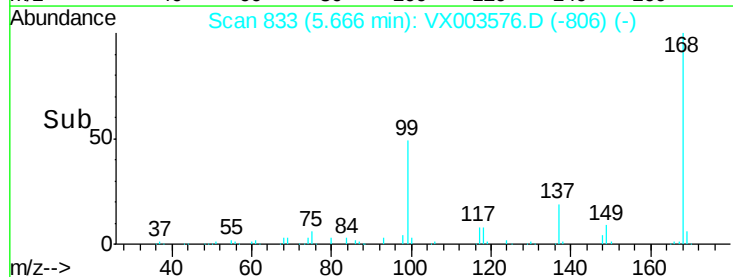
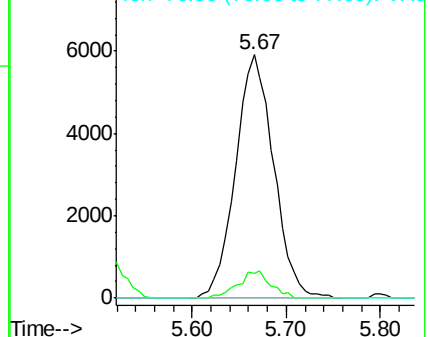
77 0.0 24.3 36.5#

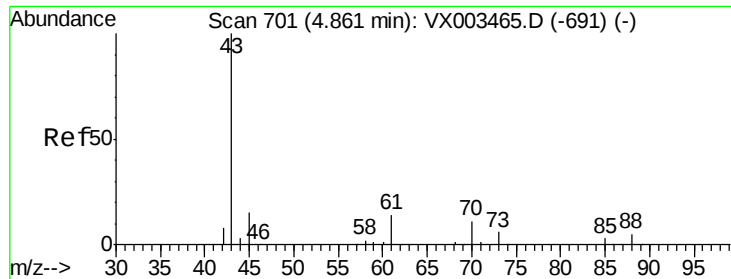


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.91 ug/l

RT: 4.87 min Scan# 702

Delta R.T. 0.01 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB02-180718

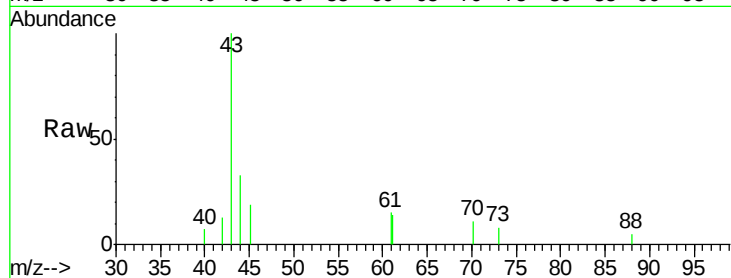
Tot Ion: 43 Resp: 3778

Ion Ratio Lower Upper

43 100

61 22.5 10.4 15.6#

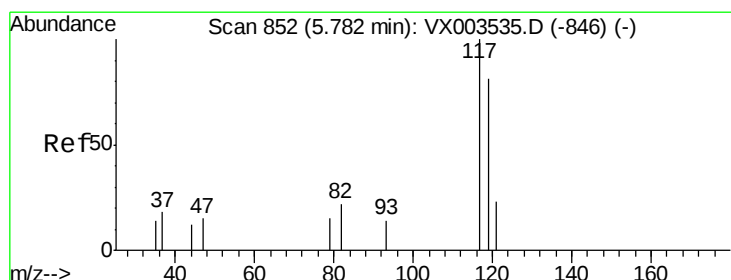
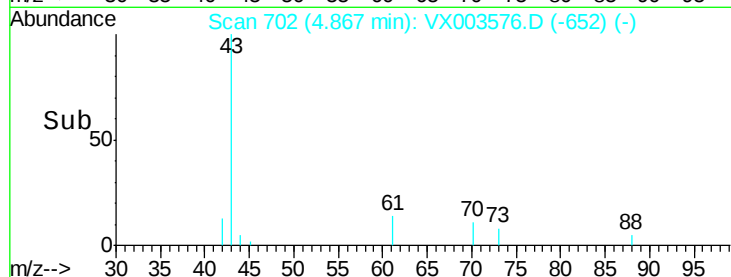
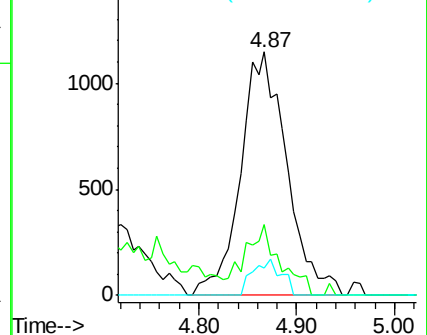
70 9.2 7.6 11.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.48 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.11 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

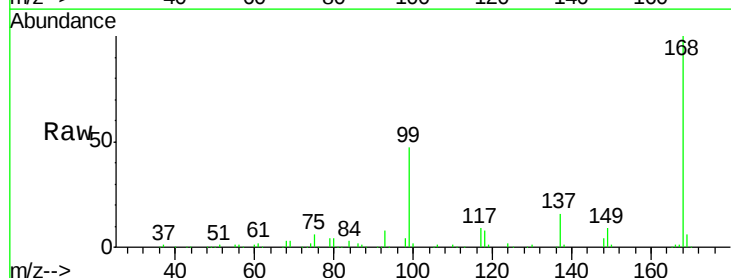
Tgt Ion: 117 Resp: 23661

Ion Ratio Lower Upper

117 100

119 5.8 77.4 116.0#

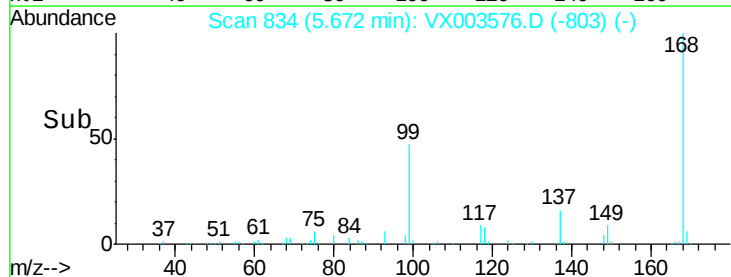
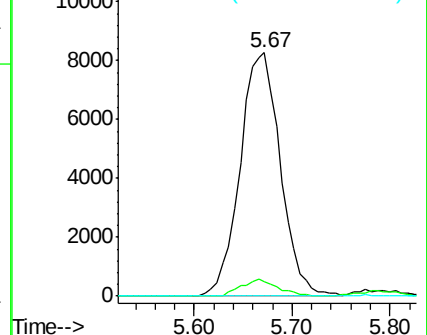
121 0.0 24.4 36.6#

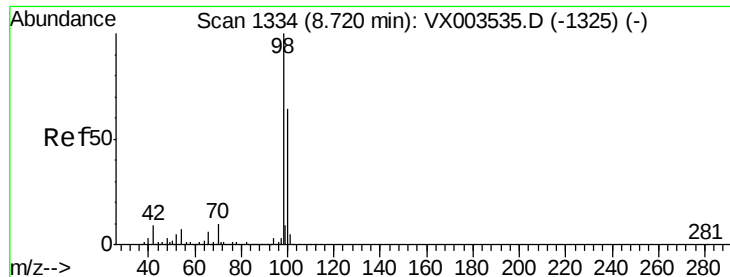


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.94 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

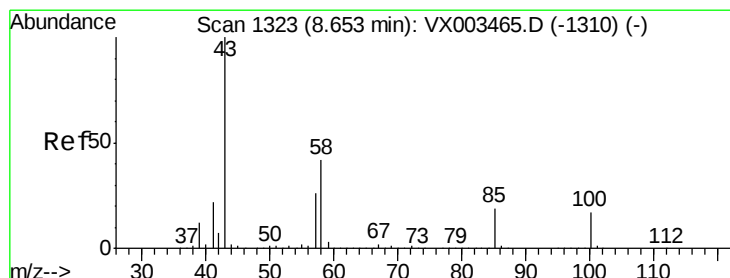
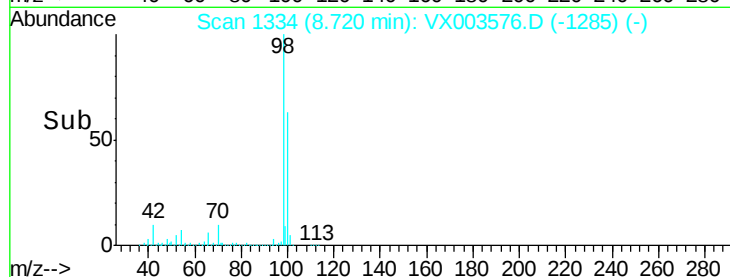
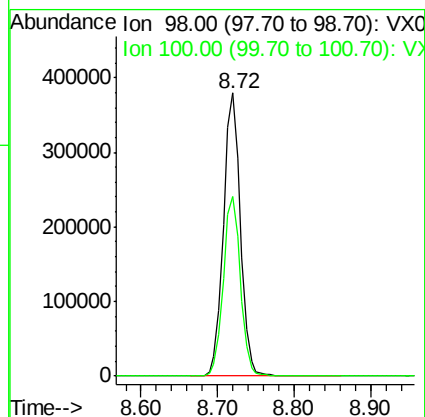
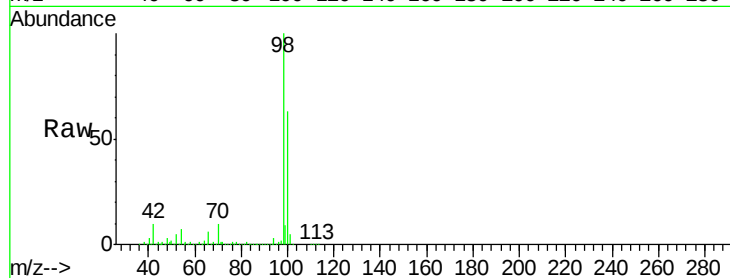
LC-SD-EB02-180718

Tot Ion: 98 Resp: 582783

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.36 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX003576.D

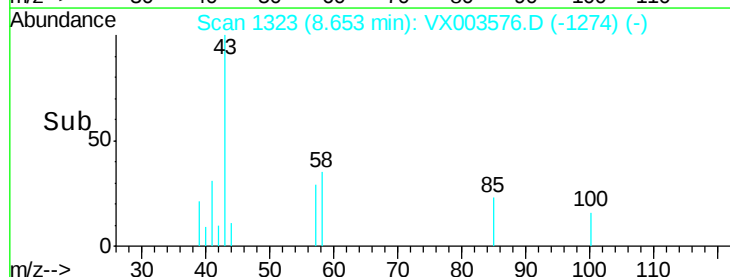
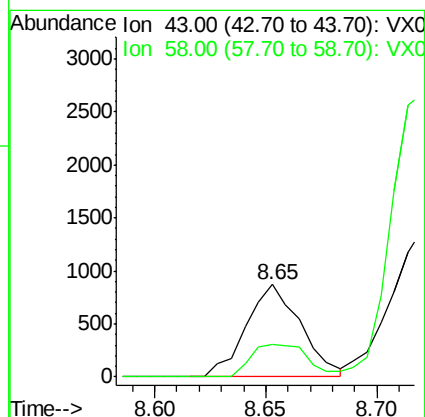
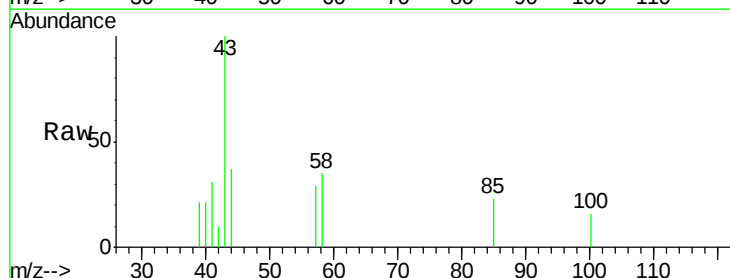
Acq: 22 Jul 2018 01:56

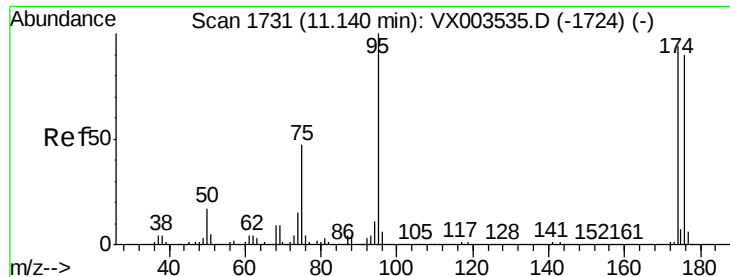
Tgt Ion: 43 Resp: 1486

Ion Ratio Lower Upper

43 100

58 37.1 28.6 42.8





#62

4-Bromofluorobenzene

Concen: 46.85 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB02-180718

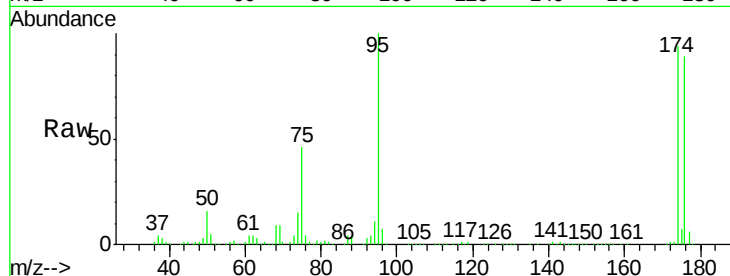
Tot Ion: 95 Resp: 199526

Ion Ratio Lower Upper

95 100

174 96.9 0.0 187.4

176 93.2 0.0 181.0

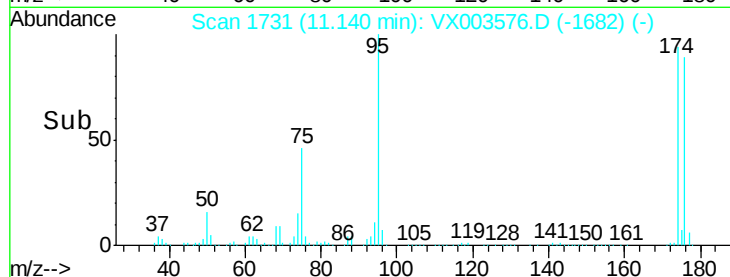


Abundance Ion 94.90 (94.60 to 95.60): VX003535.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX003535.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX003535.D (-1724) (-)

Time-->

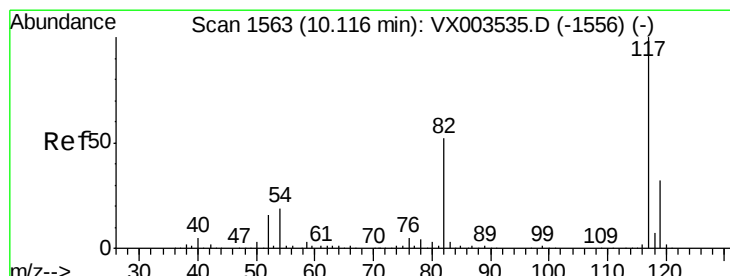


Abundance Ion 94.90 (94.60 to 95.60): VX003576.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003576.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003576.D (-1682) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

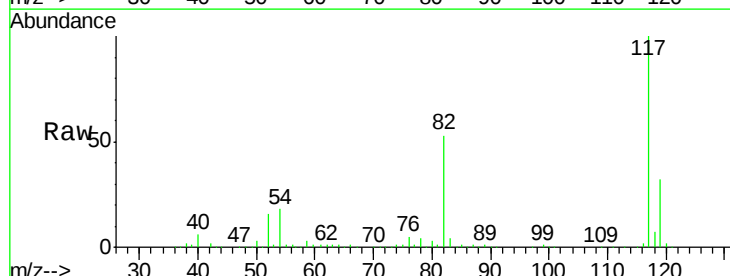
Tgt Ion: 117 Resp: 386949

Ion Ratio Lower Upper

117 100

82 53.1 45.0 67.4

119 32.0 25.8 38.6

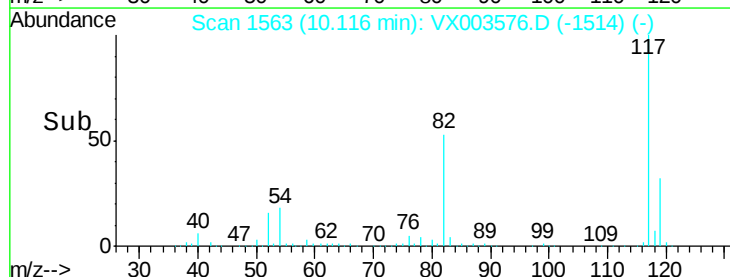


Abundance Ion 116.90 (116.60 to 117.60): VX003535.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX003535.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX003535.D (-1556) (-)

Time-->

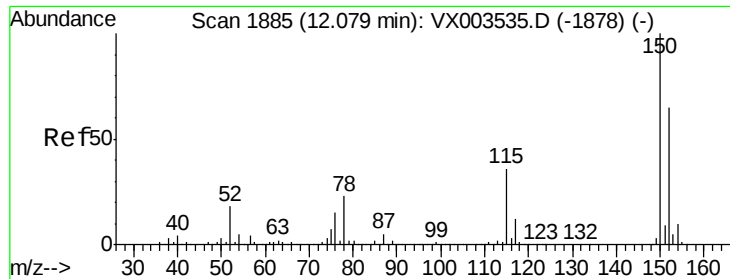


Abundance Ion 116.90 (116.60 to 117.60): VX003576.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003576.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003576.D (-1514) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB02-180718

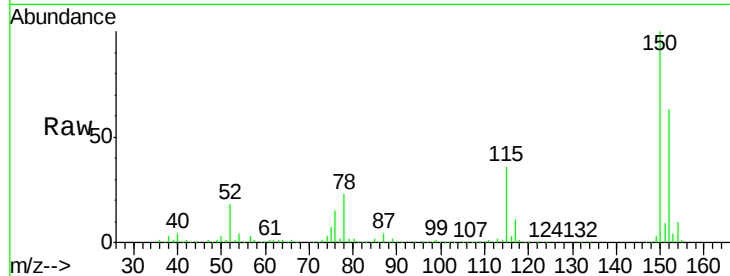
Tot Ion:152 Resp: 214747

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

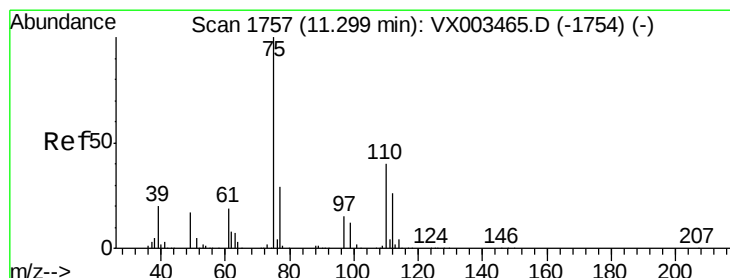
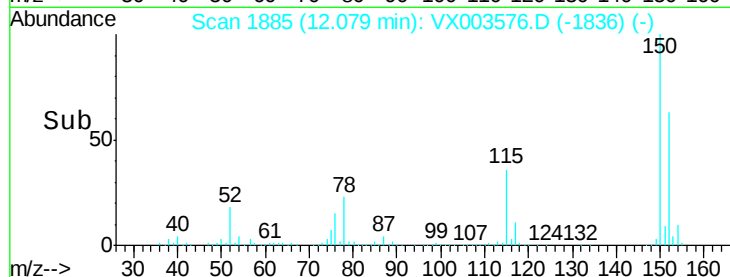
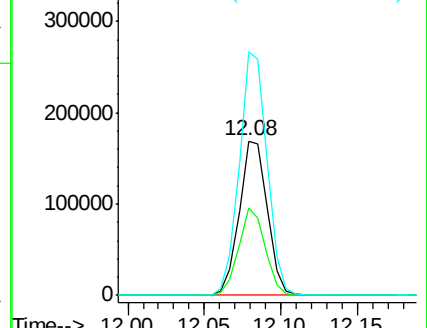
150 156.1 0.0 347.2



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: 24.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003576.D

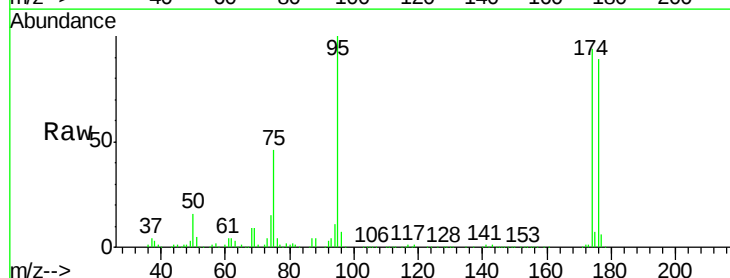
Acq: 22 Jul 2018 01:56

Tgt Ion: 75 Resp: 92968

Ion Ratio Lower Upper

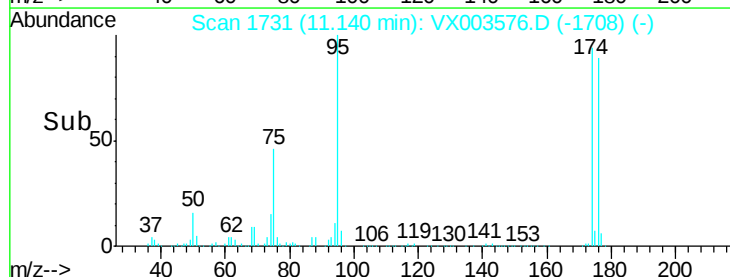
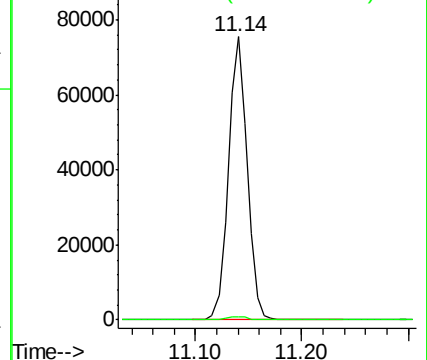
75 100

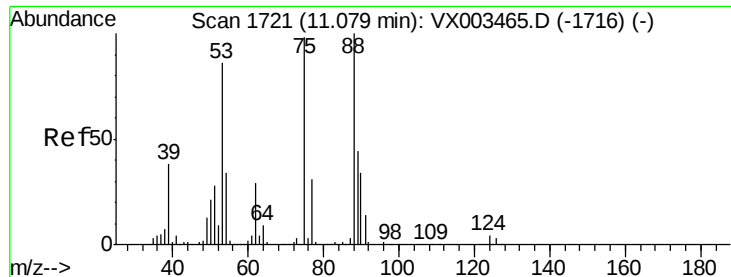
77 1.3 22.8 68.3#



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: 67.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003576.D

Acq: 22 Jul 2018 01:56

Instrument :

MSVOA_X

ClientSampleId :

LC-SD-EB02-180718

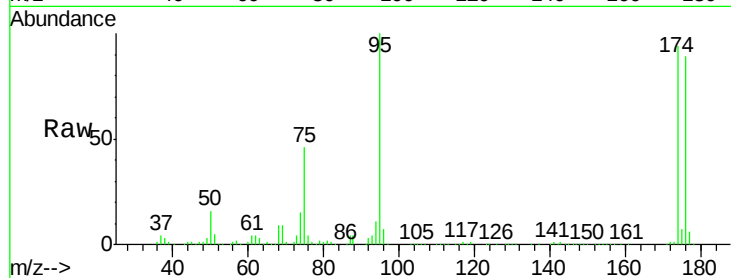
Tot Ion: 75 Resp: 92968

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

