

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071918\
 Data File : VX003476.D
 Acq On : 19 Jul 2018 21:28
 Operator : JC/SP
 Sample : BLK2
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Quant Time: Jul 20 04:02:09 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	280344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	409613	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	390167	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210999	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	175173	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	
35) Dibromofluoromethane	5.51	113	155434	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
50) Toluene-d8	8.72	98	593088	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
62) 4-Bromofluorobenzene	11.14	95	199367	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	

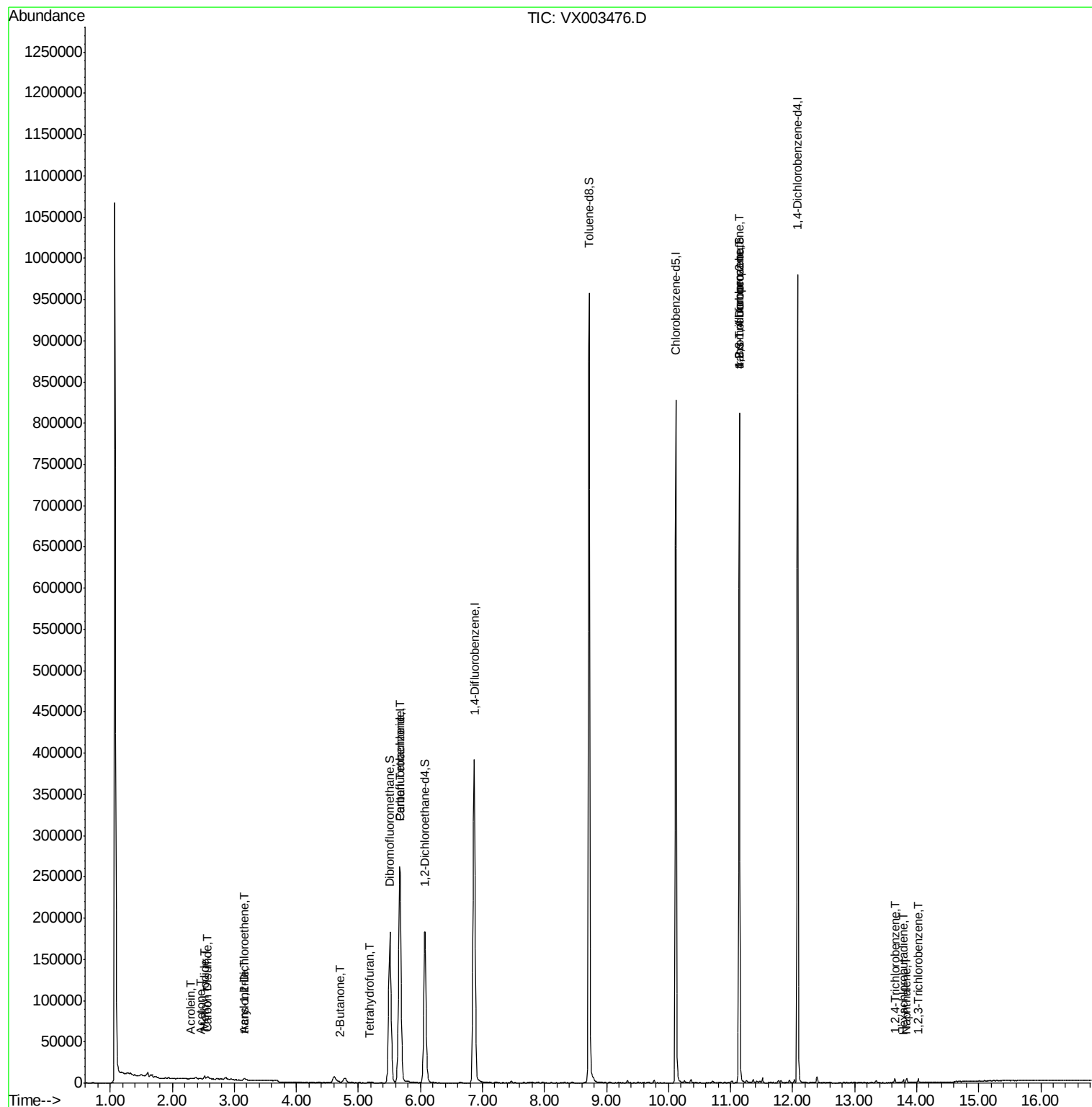
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	296	Below Cal		88
3) Chloromethane	1.32	50	1138	Below Cal		97
5) Bromomethane	1.65	94	2898	Below Cal	#	79
10) Methyl Iodide	2.52	142	4275	1.14	ug/l	93
13) Acrolein	2.29	56	339	1.14	ug/l	83
15) Acrylonitrile	3.15	53	785	0.47	ug/l	# 88
16) Acetone	2.45	43	858	0.68	ug/l	98
17) Carbon Disulfide	2.57	76	3729	0.48	ug/l	98
20) Methylene Chloride	2.86	84	1035	Below Cal	#	89
21) trans-1,2-Dichloroethene	3.16	96	691	0.22	ug/l	# 88
25) 2-Butanone	4.70	43	553	0.26	ug/l	# 52
29) Tetrahydrofuran	5.18	42	489	0.35	ug/l	# 74
38) Carbon Tetrachloride	5.67	117	24369	5.62	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	93904	24.77	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	93904	69.40	ug/l	# 7
93) 1,2,4-Trichlorobenzene	13.65	180	1470	0.26	ug/l	88
94) Hexachlorobutadiene	13.79	225	738	0.28	ug/l	92
95) Naphthalene	13.84	128	3142	0.21	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	1358	0.25	ug/l	98

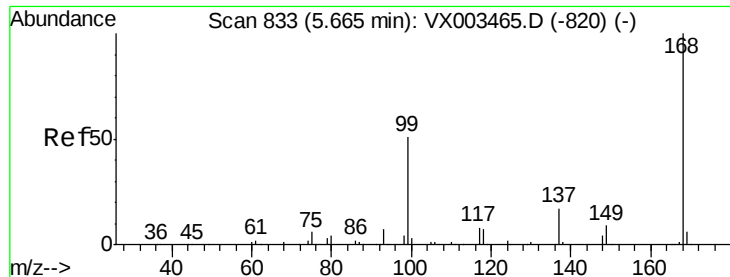
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 19 17:09:44 2018
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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: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampled :

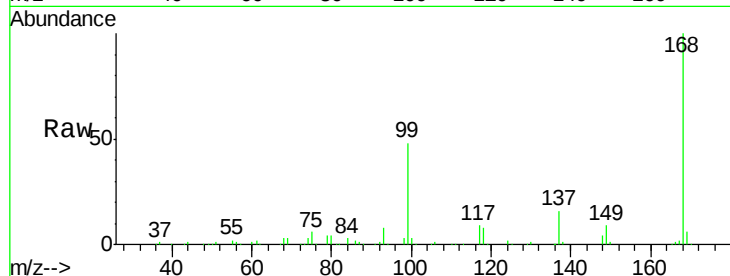
IBLK

Tot Ion:168 Resp: 280344

Ion Ratio Lower Upper

168 100

99 48.2 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

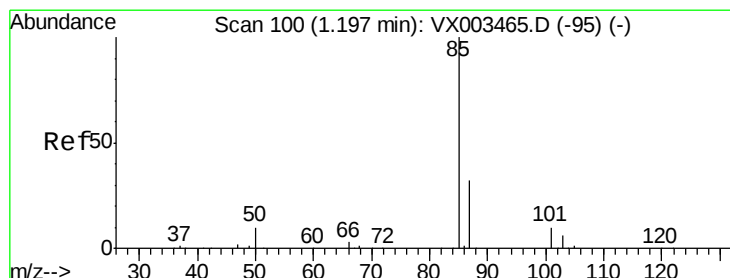
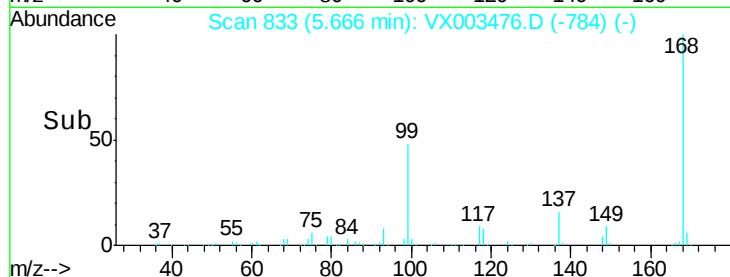
60000

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: VX003476.D

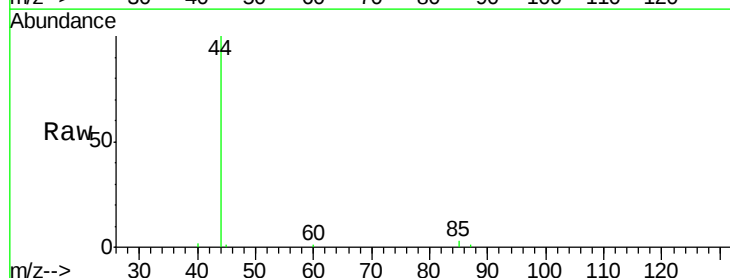
Acq: 19 Jul 2018 21:28

Tgt Ion: 85 Resp: 296

Ion Ratio Lower Upper

85 100

87 38.8 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

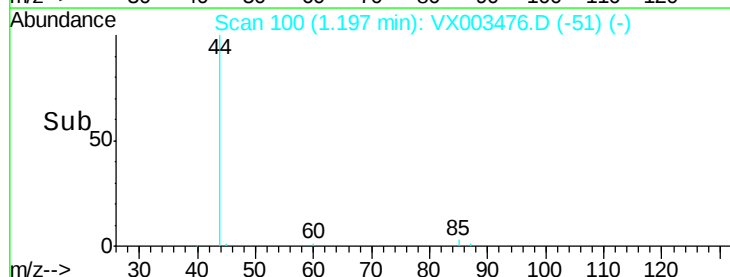
300

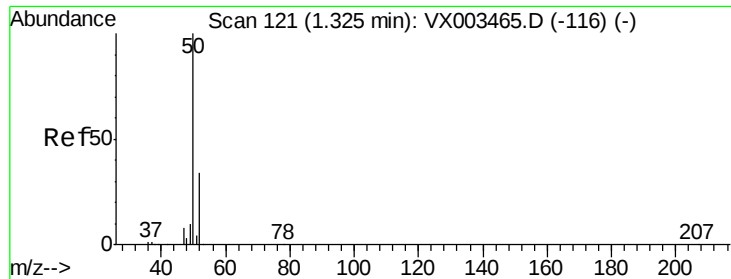
200

100

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: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampleId :

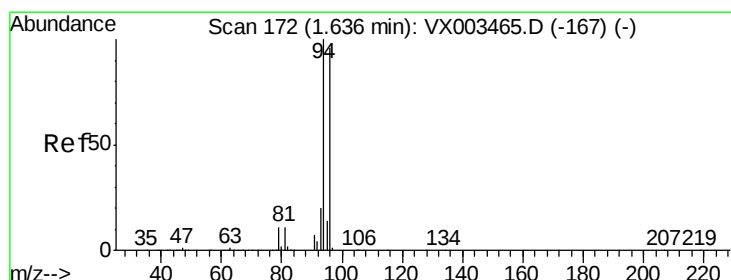
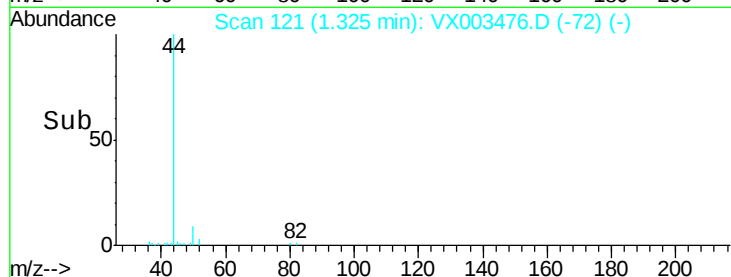
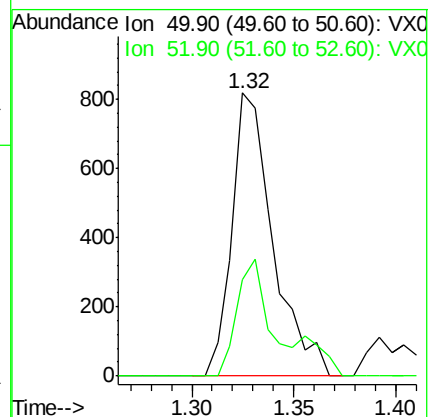
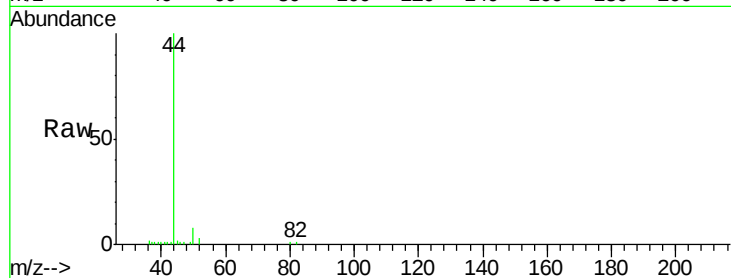
IBLK

Tot Ion: 50 Resp: 1138

Ion Ratio Lower Upper

50 100

52 34.0 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003476.D

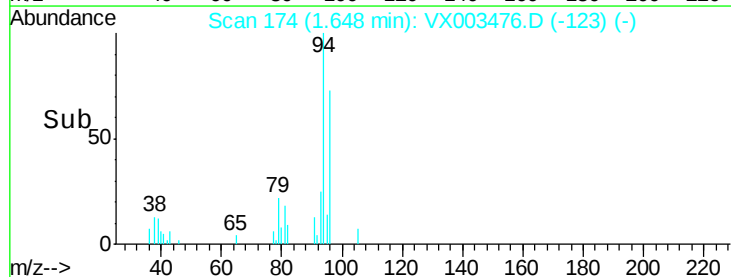
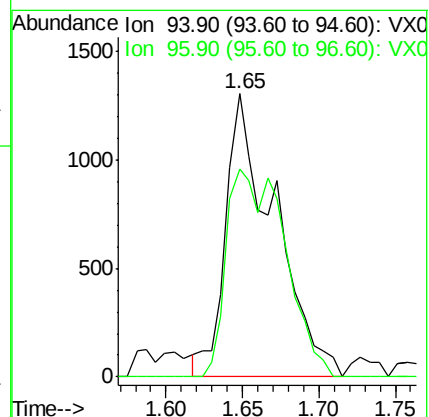
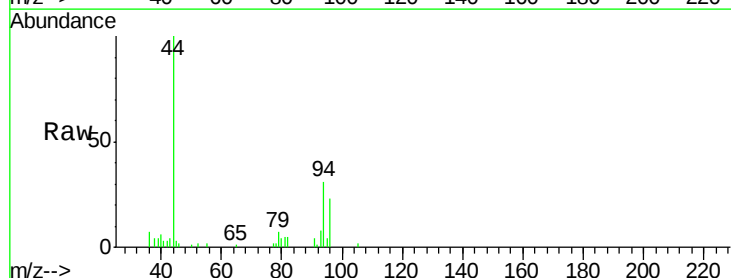
Acq: 19 Jul 2018 21:28

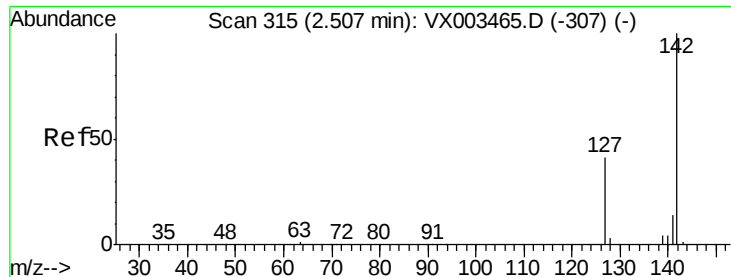
Tgt Ion: 94 Resp: 2898

Ion Ratio Lower Upper

94 100

96 73.4 74.9 112.3#

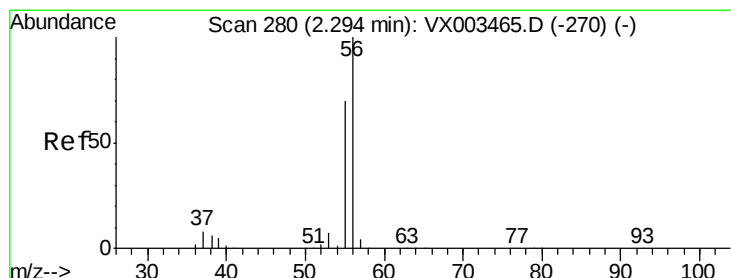
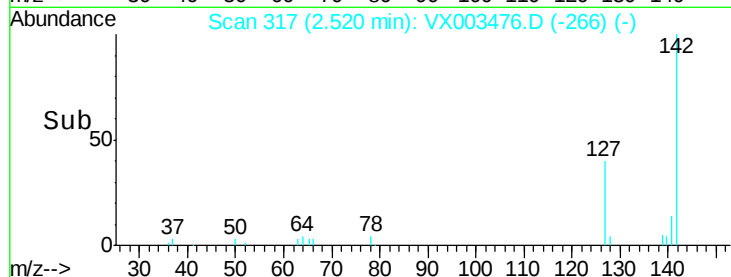
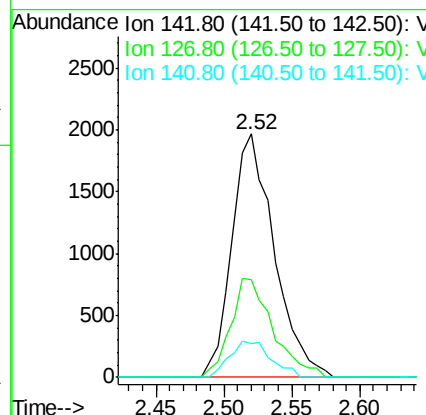
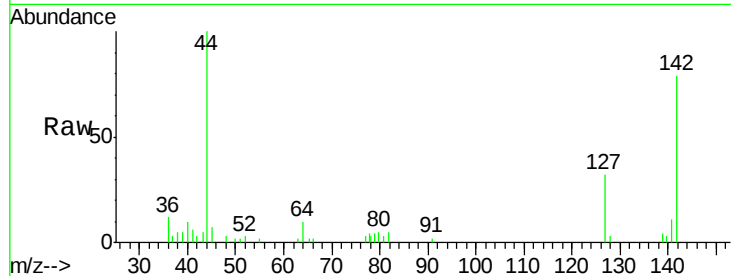




#10
Methvl Iodide
Concen: 1.14 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003476.D
Acq: 19 Jul 2018 21:28

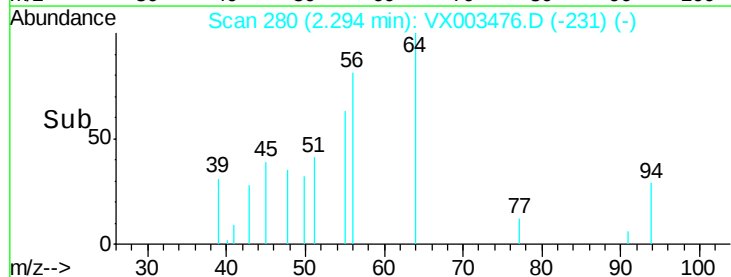
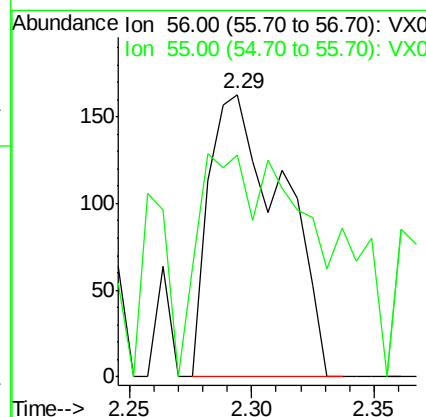
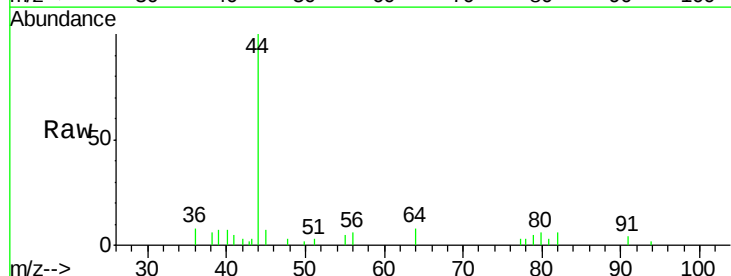
Instrument :
MSVOA_X
ClientSampled :
IBLK

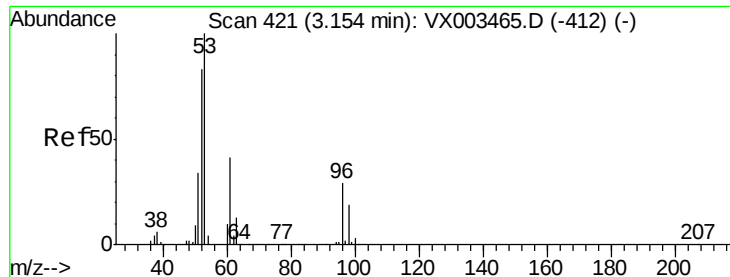
Tot Ion:142 Resp: 4275
Ion Ratio Lower Upper
142 100
127 40.4 36.6 55.0
141 14.5 11.3 16.9



#13
Acrolein
Concen: 1.14 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX003476.D
Acq: 19 Jul 2018 21:28

Tgt Ion: 56 Resp: 339
Ion Ratio Lower Upper
56 100
55 57.2 57.0 85.4





#15

Acrylonitrile

Concen: 0.47 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampled :

IBLK

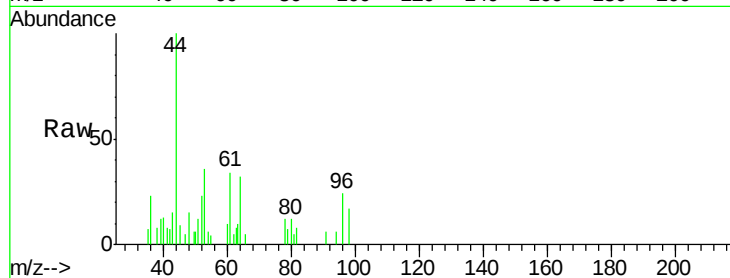
Tot Ion: 53 Resp: 785

Ion Ratio Lower Upper

53 100

52 86.1 66.7 100.1

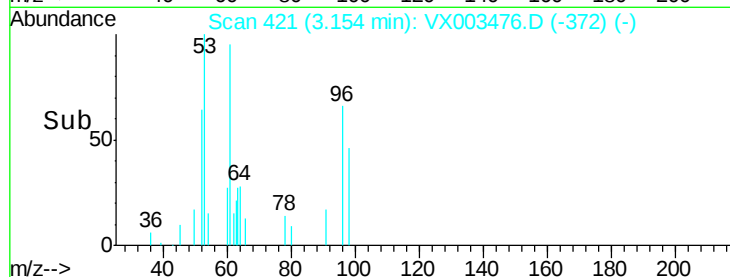
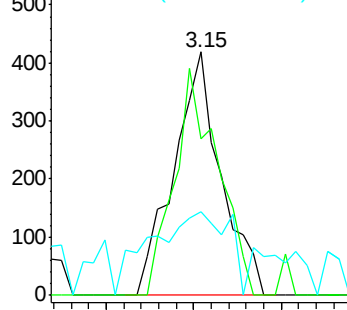
51 55.9 29.9 44.9#



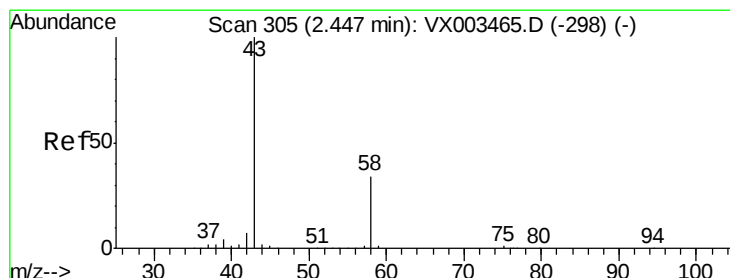
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: 0.68 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003476.D

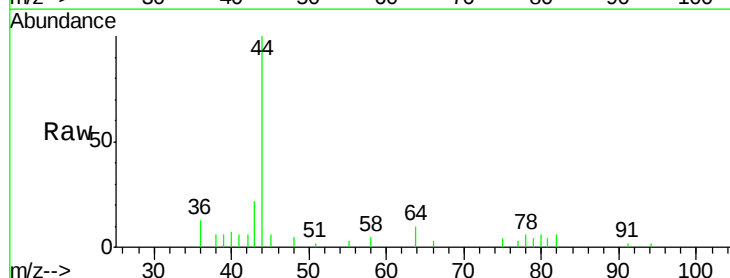
Acq: 19 Jul 2018 21:28

Tgt Ion: 43 Resp: 858

Ion Ratio Lower Upper

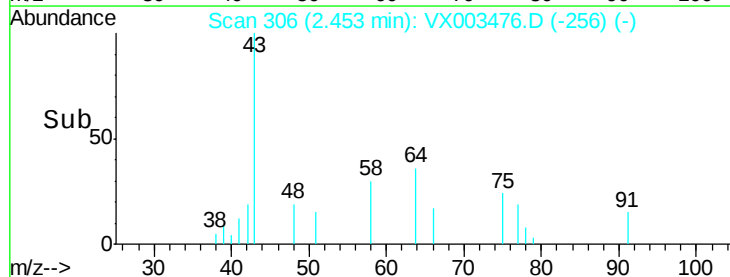
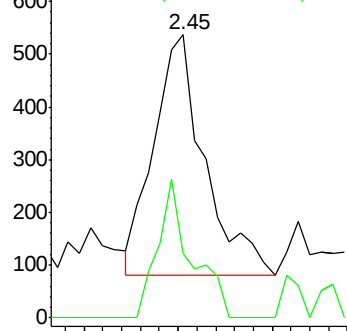
43 100

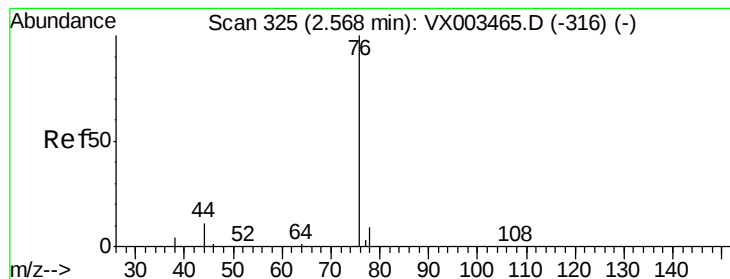
58 26.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.48 ua/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampleId :

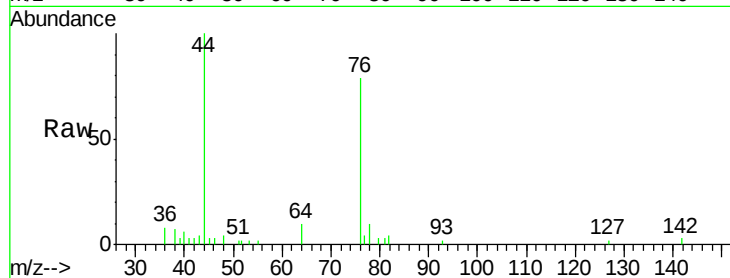
IBLK

Tot Ion: 76 Resp: 3729

Ion Ratio Lower Upper

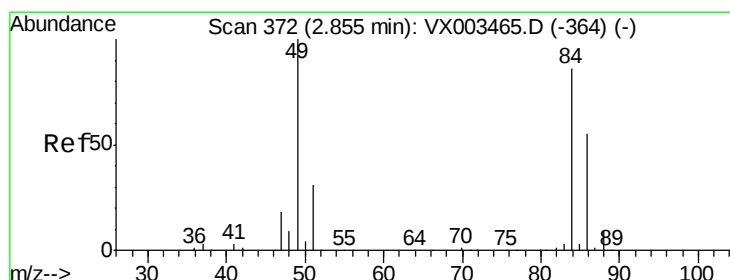
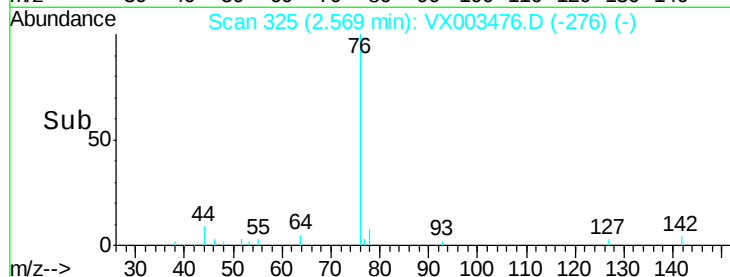
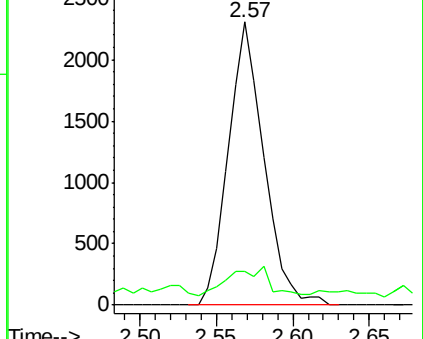
76 100

78 7.9 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Tgt Ion: 84 Resp: 1035

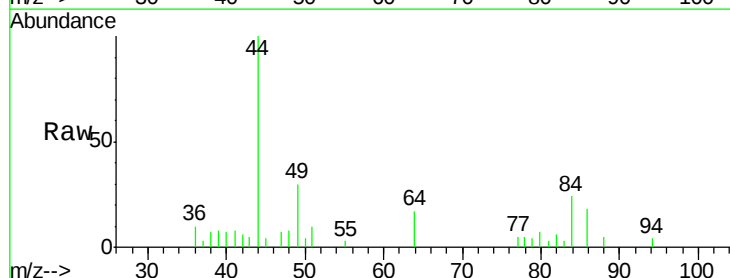
Ion Ratio Lower Upper

84 100

49 125.9 107.8 161.6

51 32.0 32.8 49.2#

86 77.6 52.5 78.7

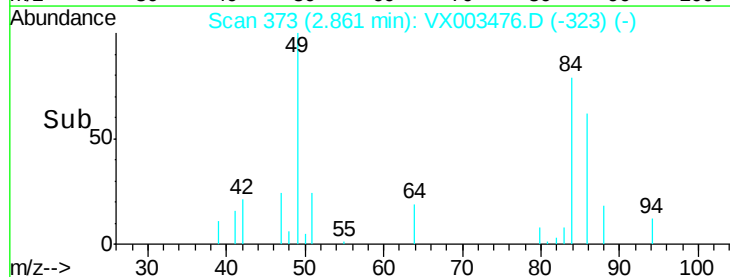
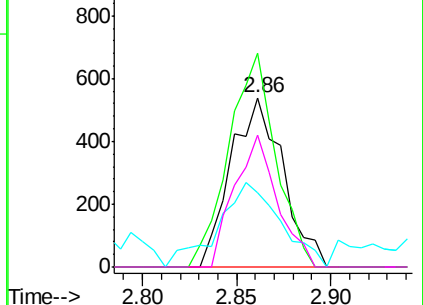


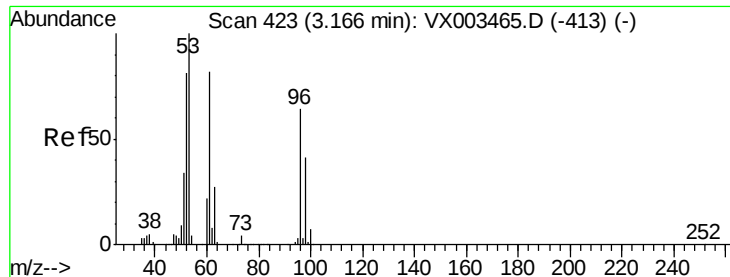
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.22 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampled :

IBLK

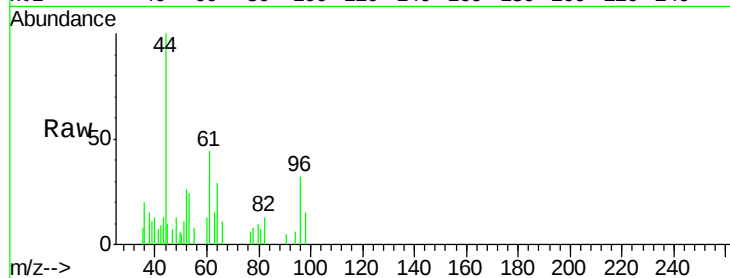
Tot Ion: 96 Resp: 691

Ion Ratio Lower Upper

96 100

61 138.0 117.0 175.4

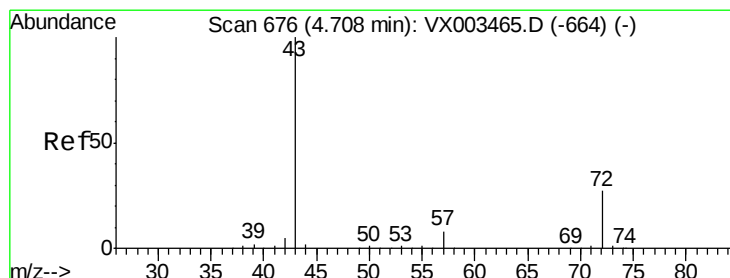
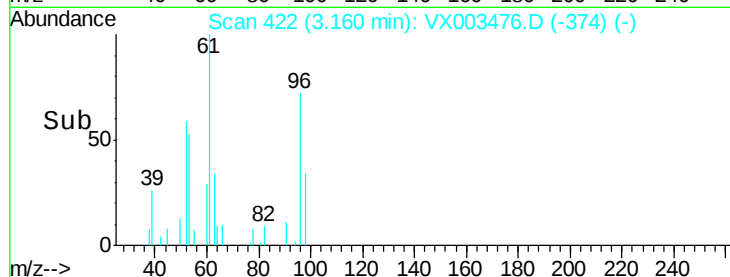
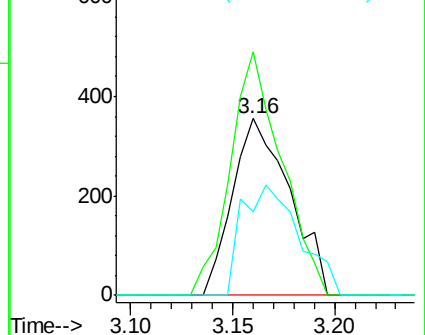
98 47.3 52.4 78.6#



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: 0.26 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX003476.D

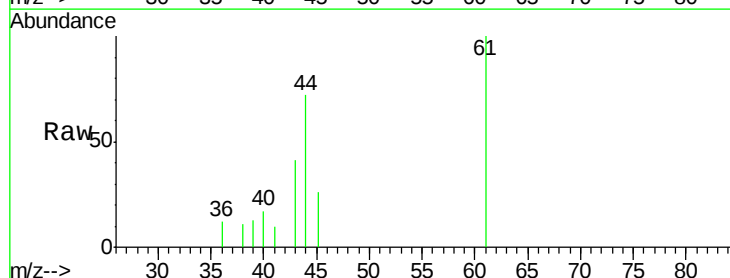
Acq: 19 Jul 2018 21:28

Tgt Ion: 43 Resp: 553

Ion Ratio Lower Upper

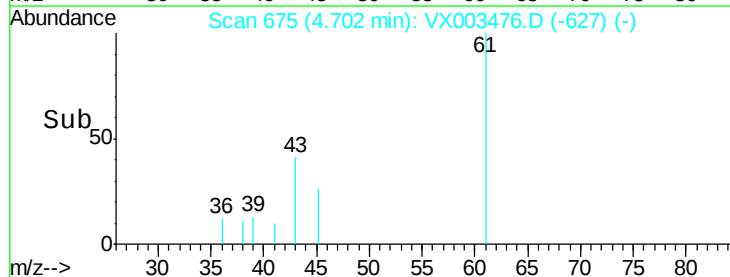
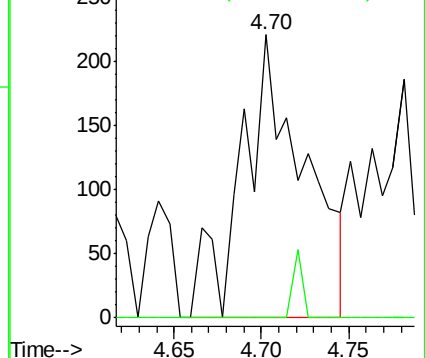
43 100

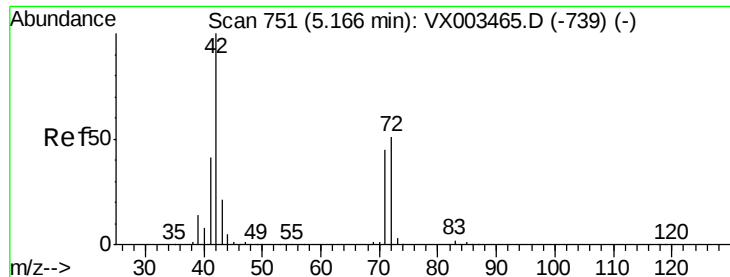
72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.35 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampleId :

IBLK

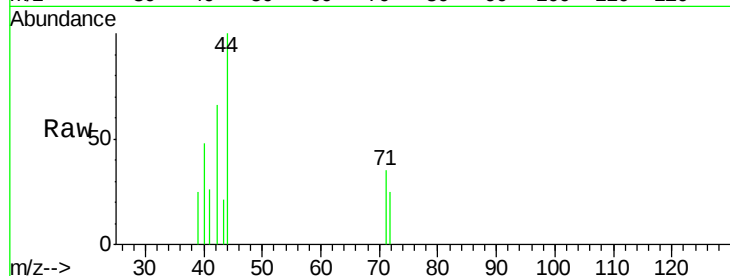
Tot Ion: 42 Resp: 489

Ion Ratio Lower Upper

42 100

72 9.8 32.0 48.0#

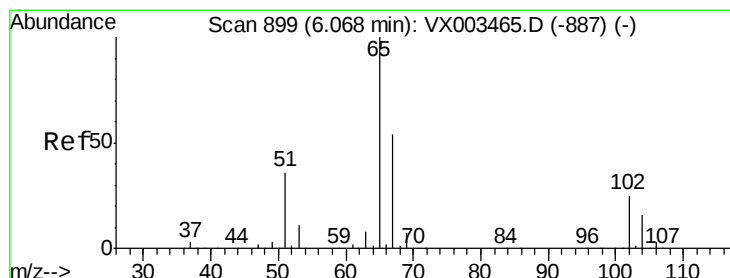
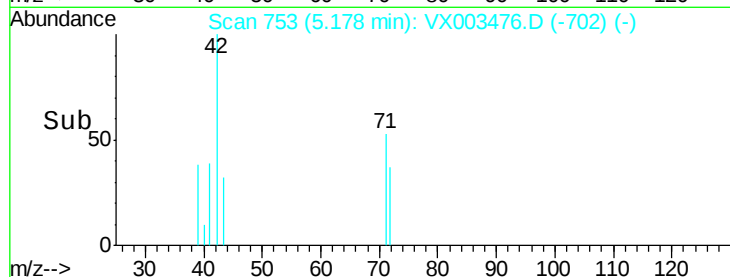
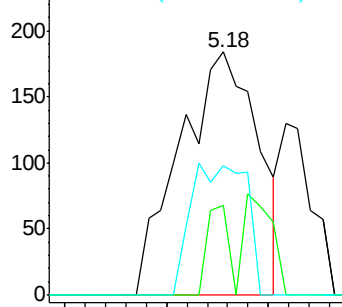
71 38.9 30.1 45.1



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



#33

1,2-Dichloroethane-d4

Concen: 52.79 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003476.D

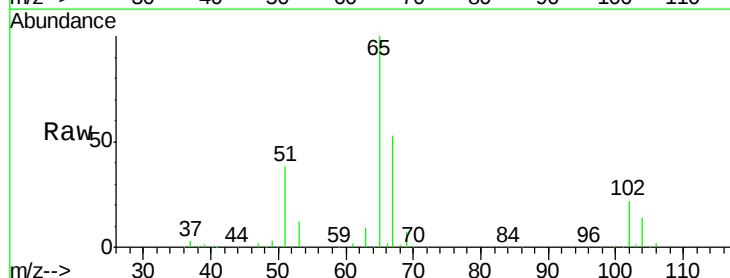
Acq: 19 Jul 2018 21:28

Tgt Ion: 65 Resp: 175173

Ion Ratio Lower Upper

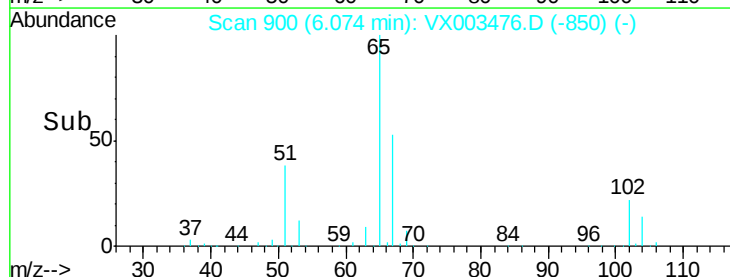
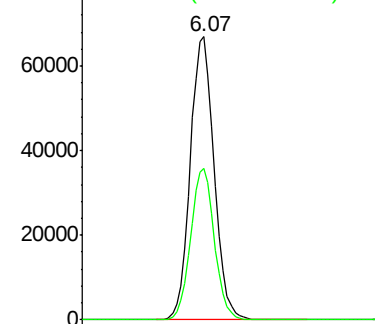
65 100

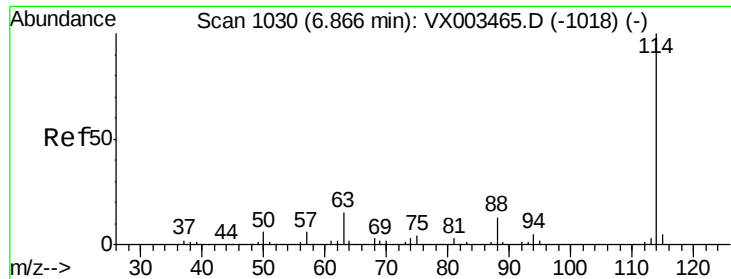
67 53.1 0.0 102.6



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: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampleId :

IBLK

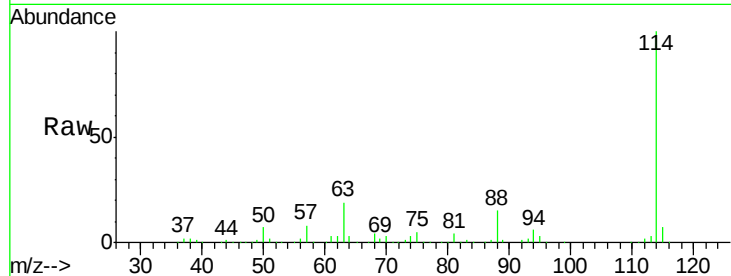
Tot Ion:114 Resp: 409613

Ion Ratio Lower Upper

114 100

63 19.2 0.0 41.4

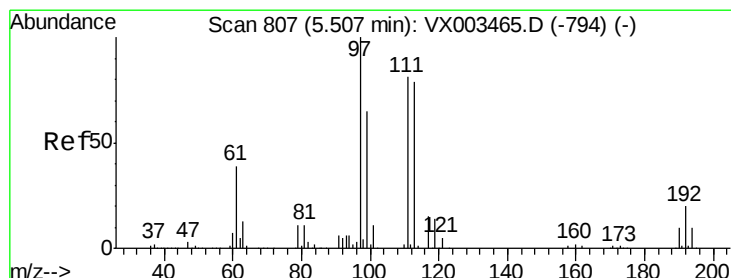
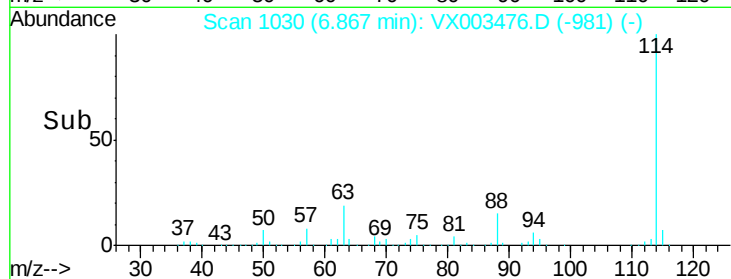
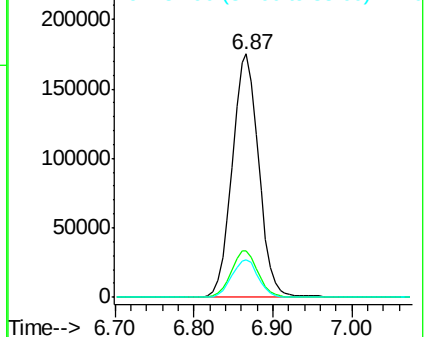
88 15.4 0.0 30.0



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: 49.82 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

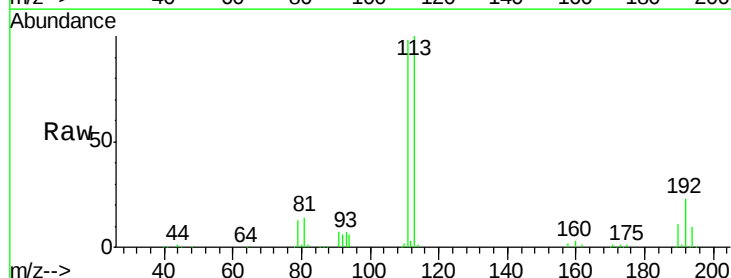
Tgt Ion:113 Resp: 155434

Ion Ratio Lower Upper

113 100

111 101.5 81.4 122.0

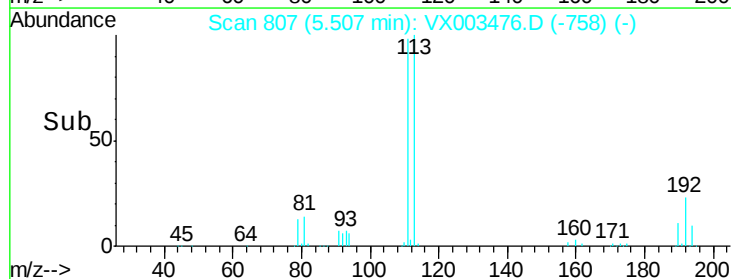
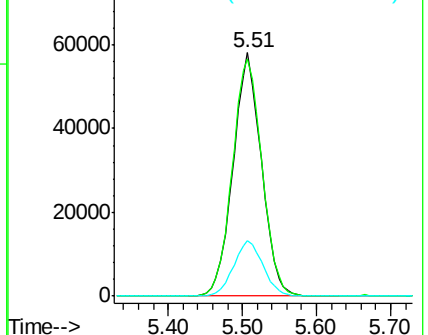
192 23.5 19.1 28.7

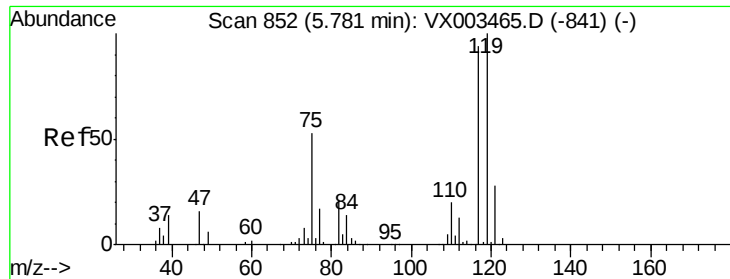


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.62 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampleId :

IBLK

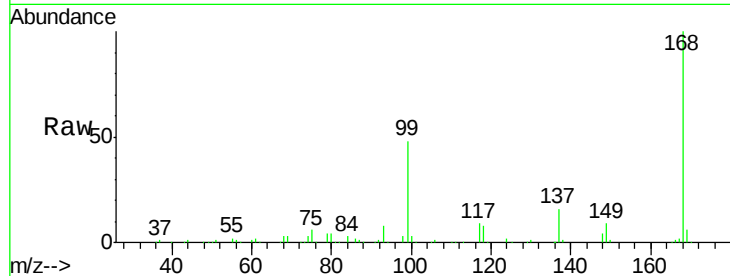
Tot Ion:117 Resp: 24369

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

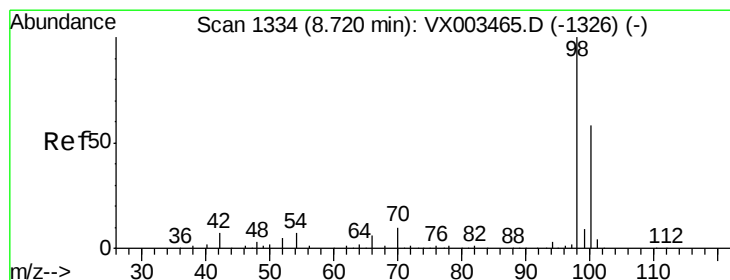
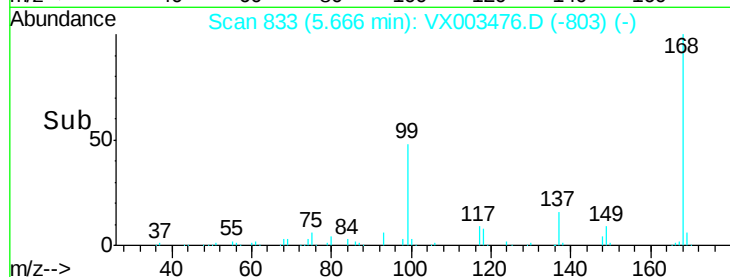
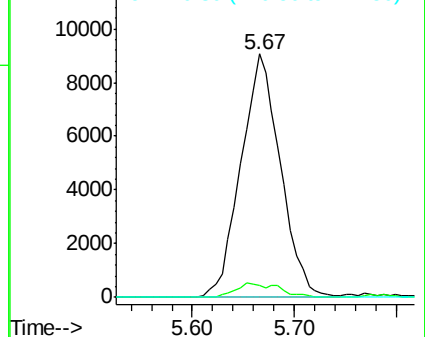
121 0.0 24.4 36.6#



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: 50.58 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003476.D

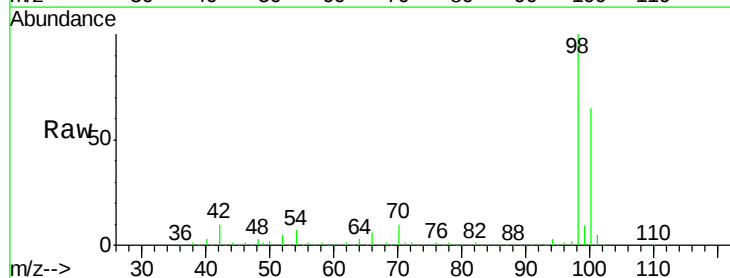
Acq: 19 Jul 2018 21:28

Tgt Ion: 98 Resp: 593088

Ion Ratio Lower Upper

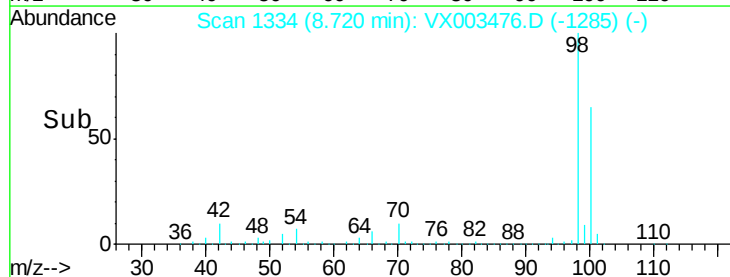
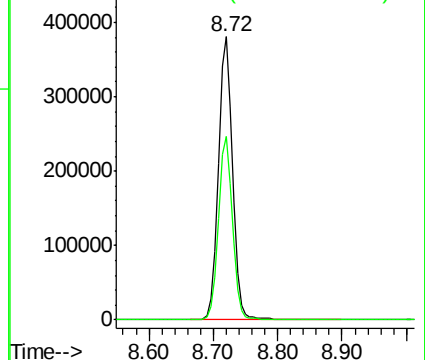
98 100

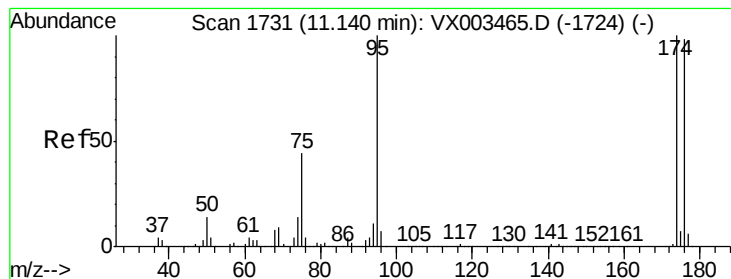
100 64.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampleId :

IBLK

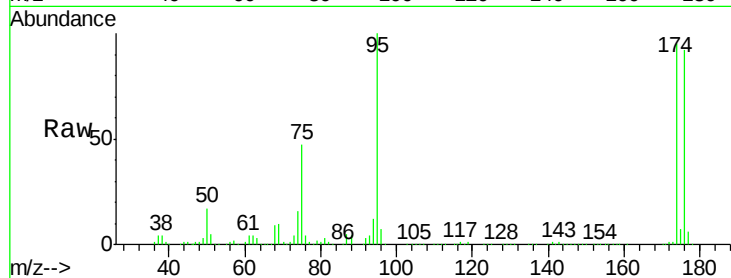
Tot Ion: 95 Resp: 199367

Ion Ratio Lower Upper

95 100

174 96.1 0.0 187.4

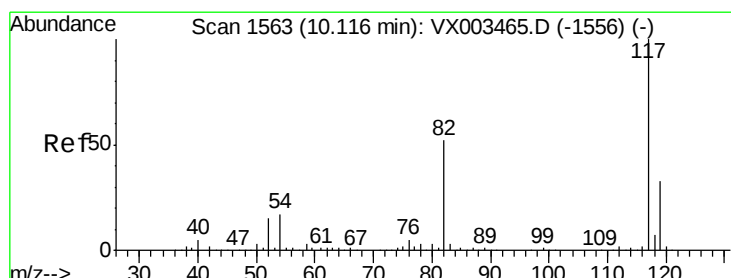
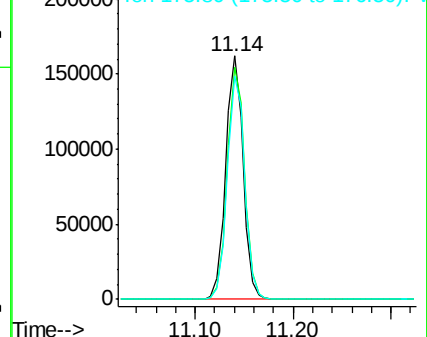
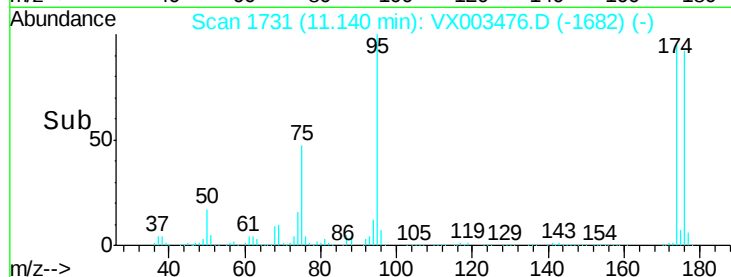
176 92.2 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX003476.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX003476.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX003476.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

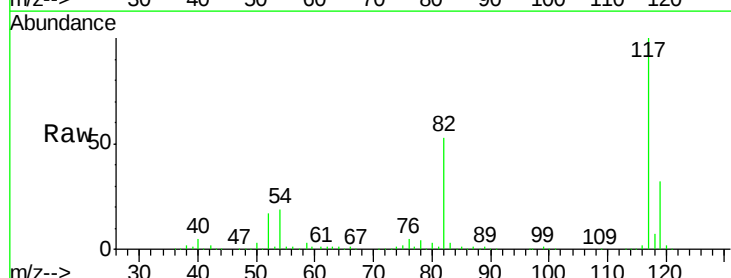
Tgt Ion: 117 Resp: 390167

Ion Ratio Lower Upper

117 100

82 53.5 45.0 67.4

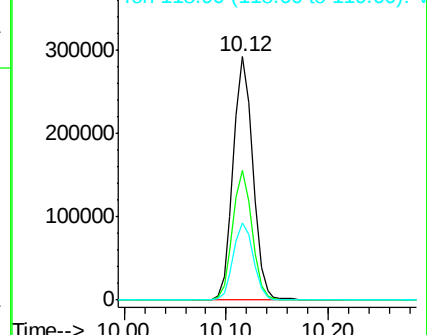
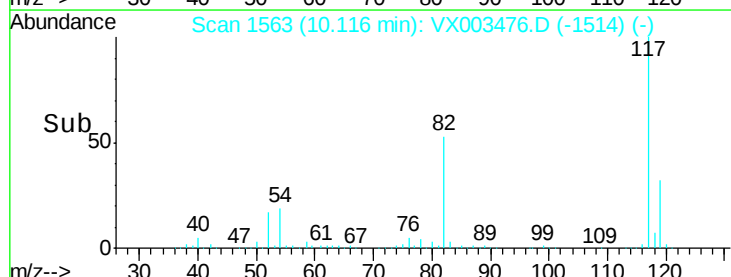
119 31.9 25.8 38.6

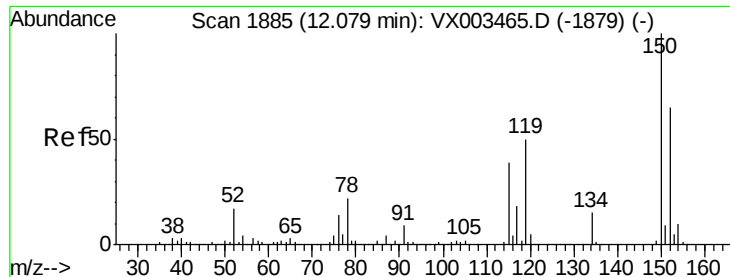


Abundance Ion 116.90 (116.60 to 117.60): VX003476.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX003476.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX003476.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampleId :

IBLK

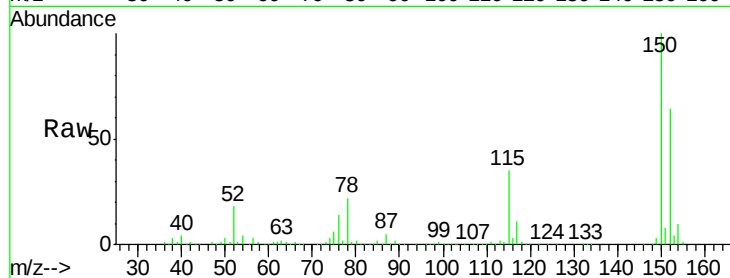
Tot Ion:152 Resp: 210999

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

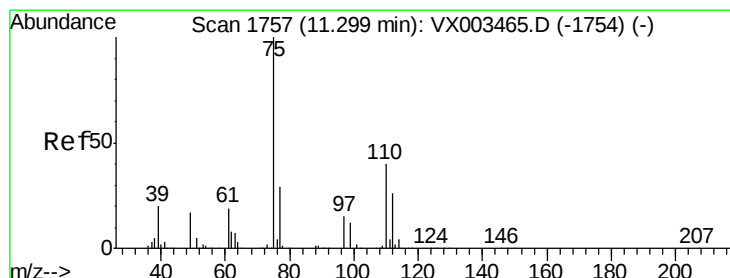
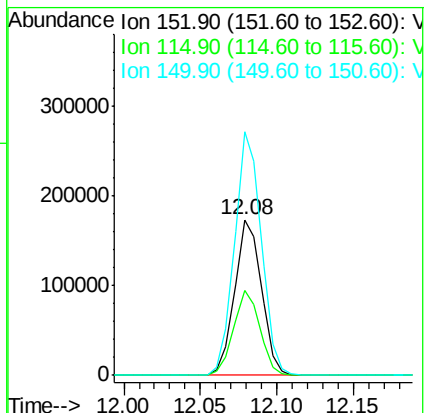
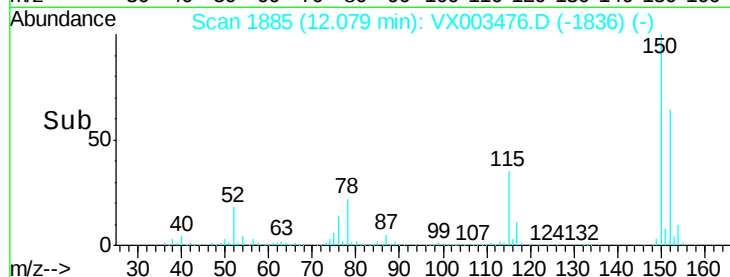
150 156.1 0.0 347.2



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: 24.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003476.D

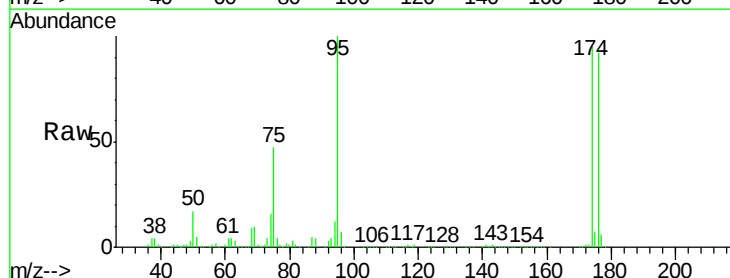
Acq: 19 Jul 2018 21:28

Tgt Ion: 75 Resp: 93904

Ion Ratio Lower Upper

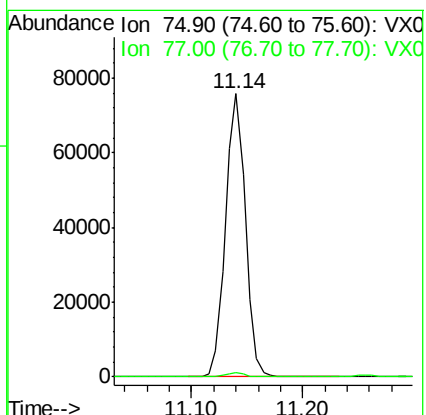
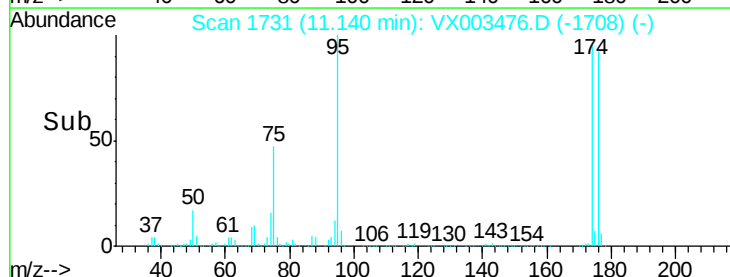
75 100

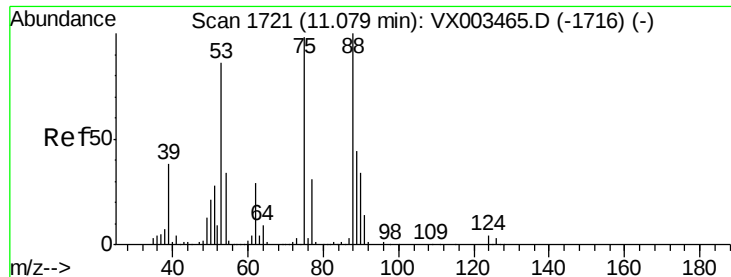
77 1.4 22.8 68.3#



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: 69.40 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampled :

IBLK

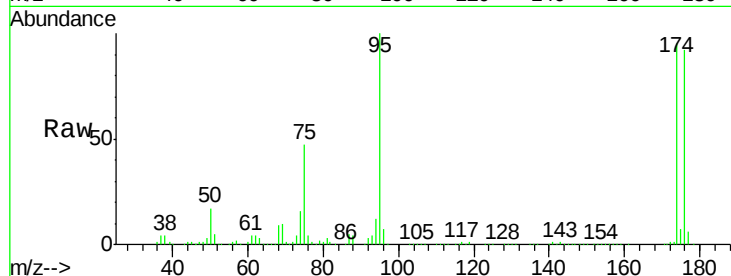
Tot Ion: 75 Resp: 93904

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

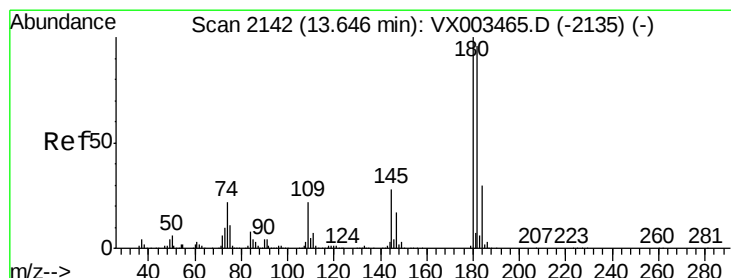
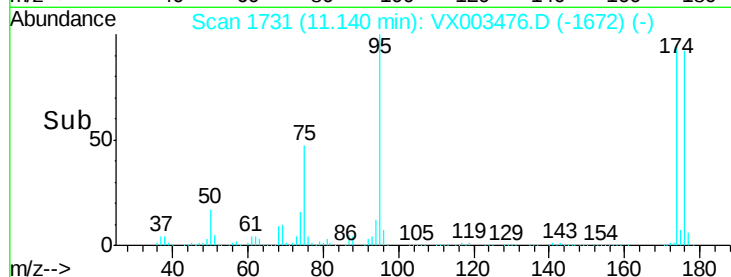
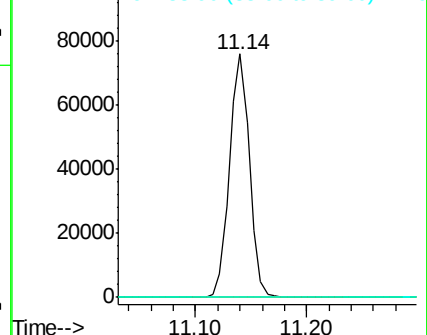
89 0.0 38.2 57.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.26 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

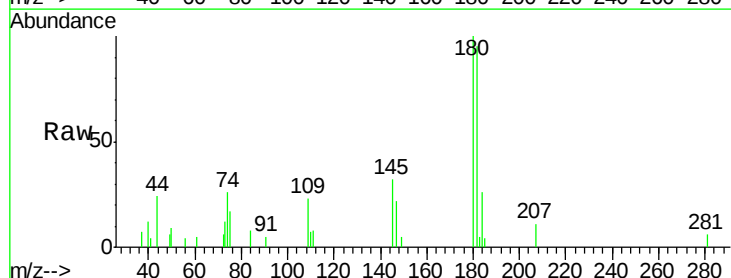
Tgt Ion:180 Resp: 1470

Ion Ratio Lower Upper

180 100

182 106.7 47.7 143.1

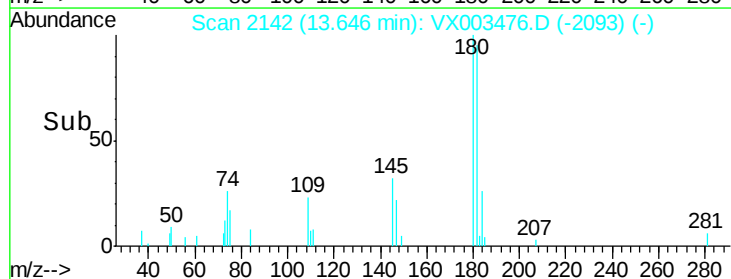
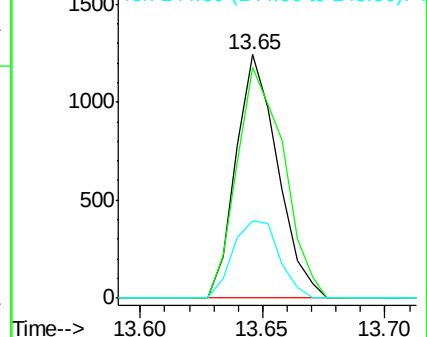
145 35.2 14.1 42.4

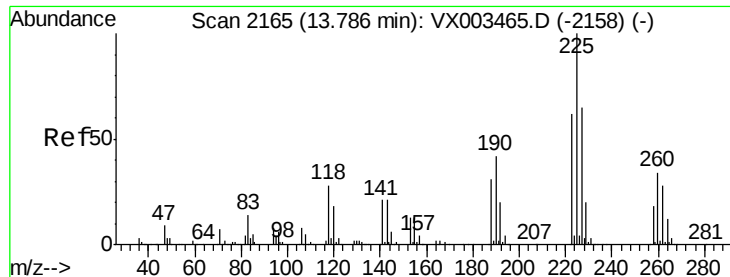


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.28 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

Instrument :

MSVOA_X

ClientSampleId :

IBLK

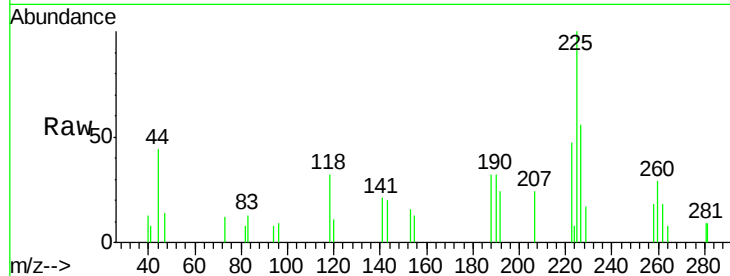
Tot Ion:225 Resp: 738

Ion Ratio Lower Upper

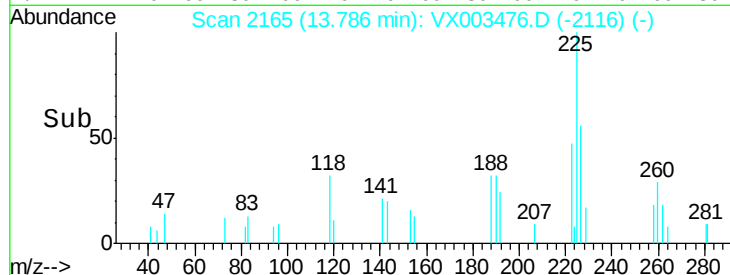
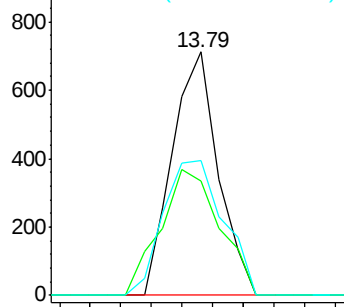
225 100

223 67.3 31.6 95.0

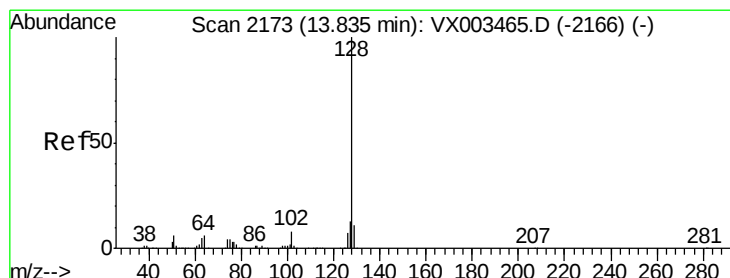
227 73.2 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 0.21 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX003476.D

Acq: 19 Jul 2018 21:28

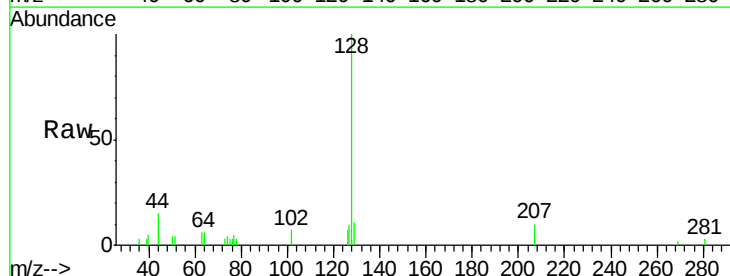
Tgt Ion:128 Resp: 3142

Ion Ratio Lower Upper

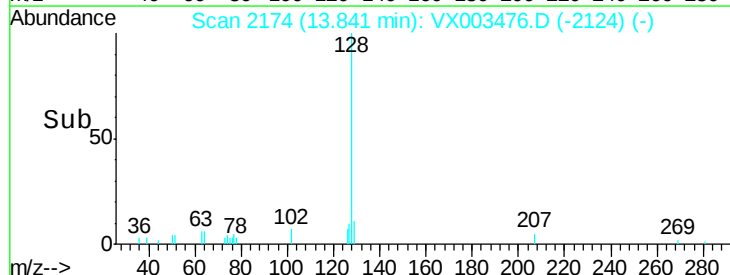
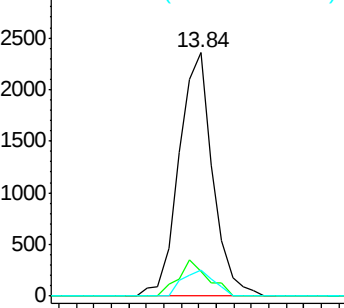
128 100

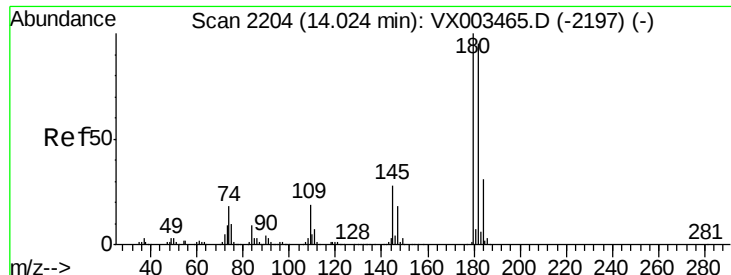
127 13.2 10.4 15.6

129 10.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

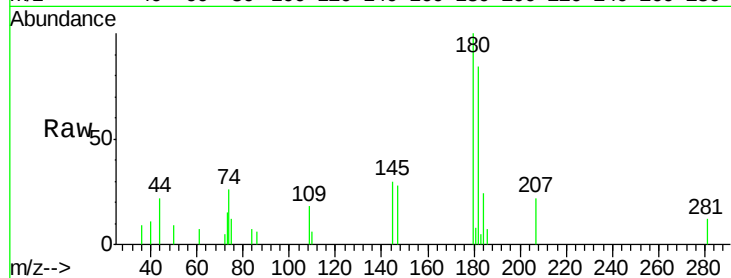




#96
 1,2,3-Trichlorobenzene
 Concen: 0.25 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX003476.D
 Acq: 19 Jul 2018 21:28

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.7	48.0	144.0
145	28.8	14.8	44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

