

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090418\
 Data File : VX004345.D
 Acq On : 04 Sep 2018 14:25
 Operator : JC/MD
 Sample : J4762-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE BLANK-WATER REF-4

Quant Time: Sep 05 06:39:47 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	276757	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	439720	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	415410	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	224553	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	193988	53.78	ug/l	0.00
Spiked Amount			Recovery	=	107.56%	
35) Dibromofluoromethane	5.50	113	170493	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
50) Toluene-d8	8.71	98	628443	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	11.14	95	222455	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	

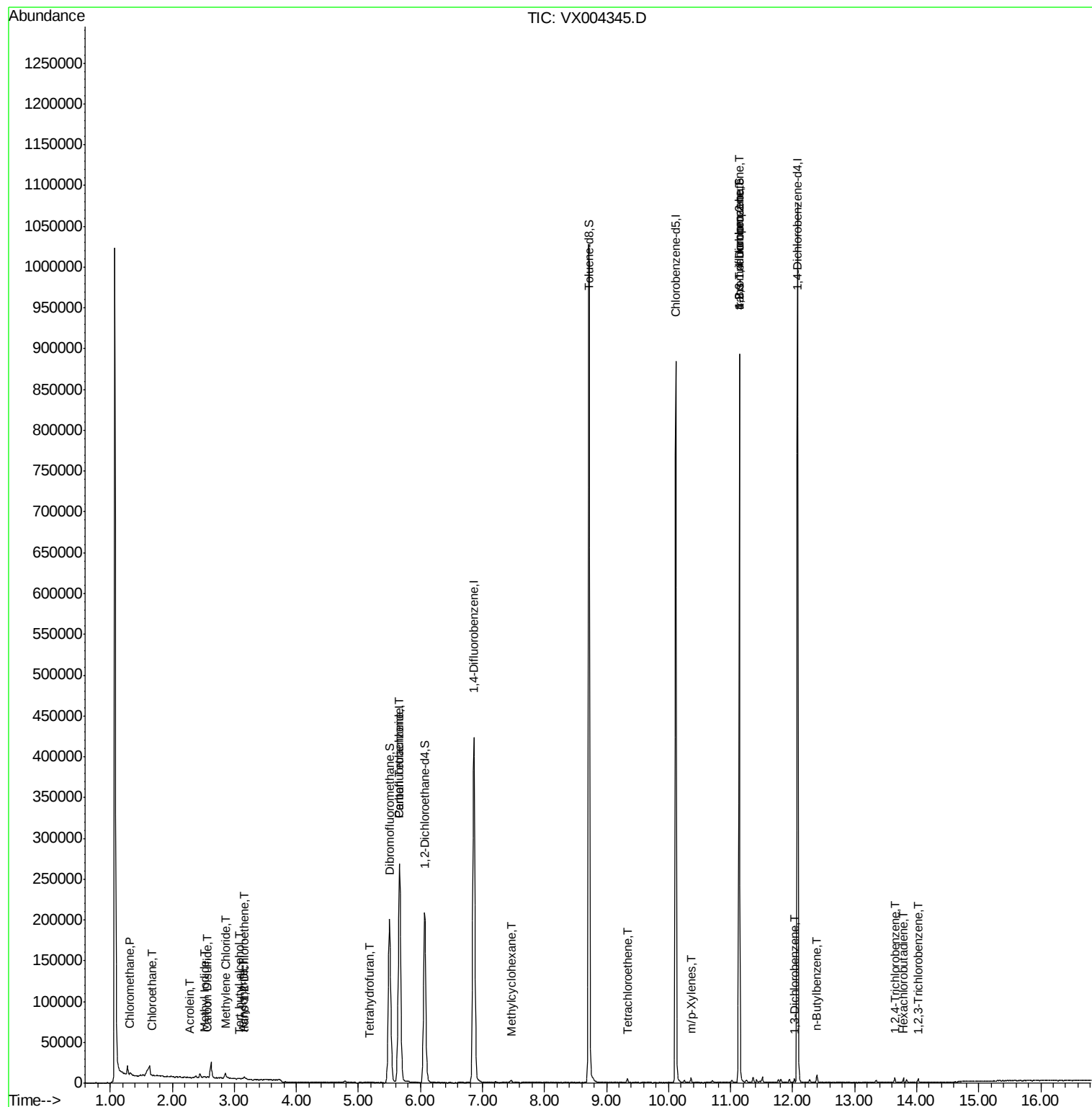
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1441	0.69	ug/l	98
5) Bromomethane	1.64	94	1204	Below Cal		100
6) Chloroethane	1.67	64	4717	2.58	ug/l #	59
10) Methyl Iodide	2.52	142	1996	4.78	ug/l	96
11) Tert butyl alcohol	3.08	59	277	0.36	ug/l	95
13) Acrolein	2.29	56	249	1.34	ug/l #	27
15) Acrylonitrile	3.15	53	876	0.46	ug/l #	86
16) Acetone	2.45	43	5217	Below Cal		97
17) Carbon Disulfide	2.56	76	2781	1.13	ug/l #	95
20) Methylene Chloride	2.85	84	2751	0.79	ug/l	96
21) trans-1,2-Dichloroethene	3.16	96	745	0.23	ug/l #	74
25) 2-Butanone	4.72	43	627	Below Cal		47
29) Tetrahydrofuran	5.17	42	752	0.49	ug/l #	40
38) Carbon Tetrachloride	5.66	117	24012	5.16	ug/l #	17
39) Methylcyclohexane	7.46	83	1158	0.21	ug/l	90
64) Tetrachloroethene	9.34	164	906	0.22	ug/l #	83
68) m/p-Xylenes	10.37	106	1438	0.22	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	106238	23.26	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	106238	75.48	ug/l #	10
87) 1,3-Dichlorobenzene	12.03	146	1588	0.20	ug/l	96
89) n-Butylbenzene	12.39	91	2495	0.23	ug/l	98
93) 1,2,4-Trichlorobenzene	13.65	180	1717	0.33	ug/l	97
94) Hexachlorobutadiene	13.79	225	958	0.26	ug/l	90
96) 1,2,3-Trichlorobenzene	14.02	180	1420	0.26	ug/l	99

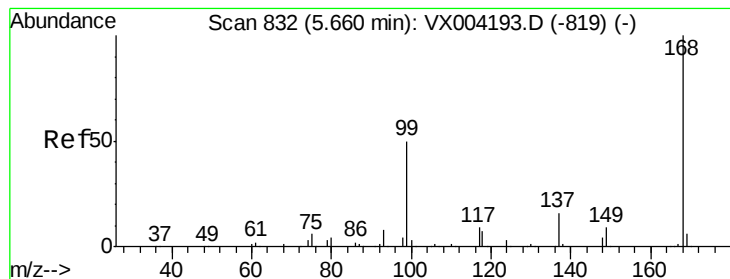
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Aug 23 05:39:44 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

Instrument :

MSVOA_X

ClientSampleId :

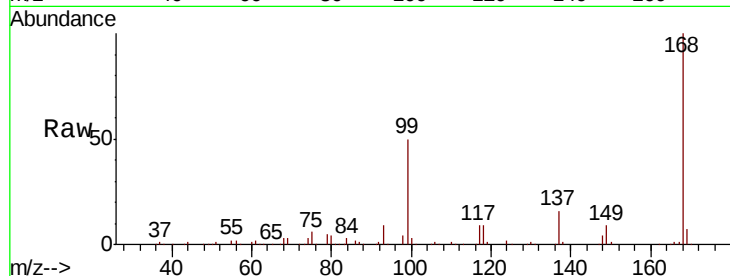
STORAGEBLANK-WATERREF-4

Tot Ion:168 Resp: 276757

Ion Ratio Lower Upper

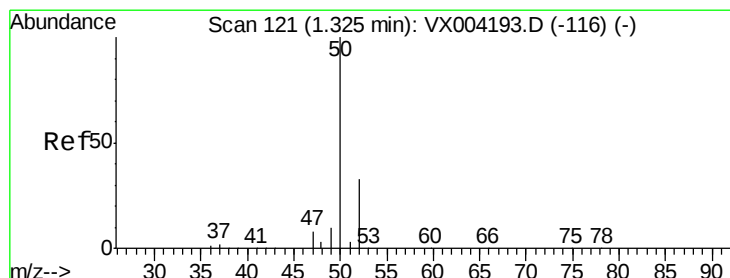
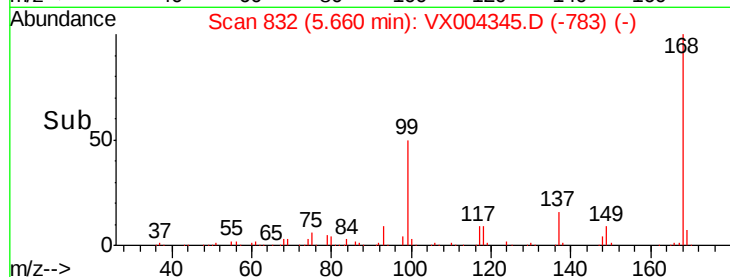
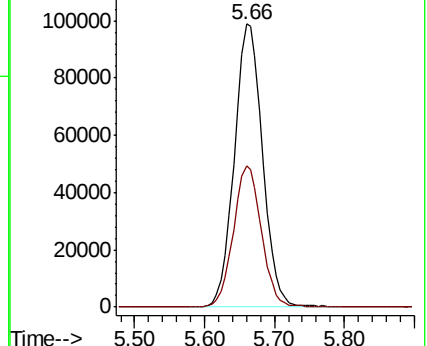
168 100

99 49.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.69 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004345.D

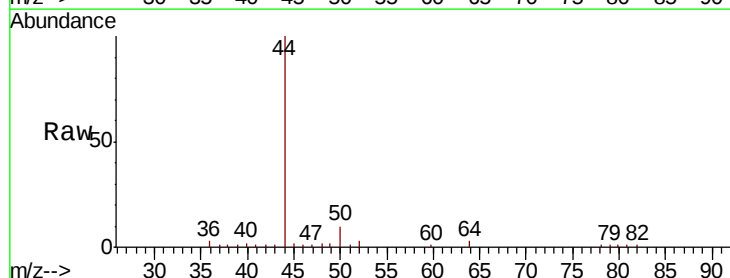
Acq: 04 Sep 2018 14:25

Tgt Ion: 50 Resp: 1441

Ion Ratio Lower Upper

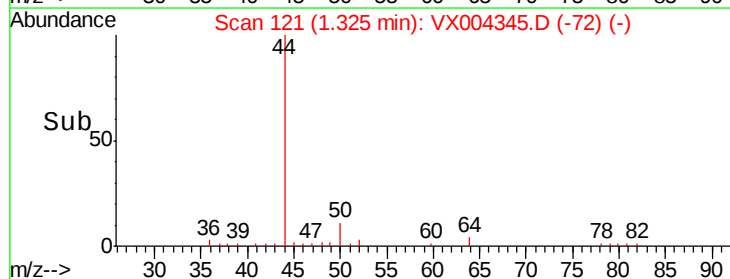
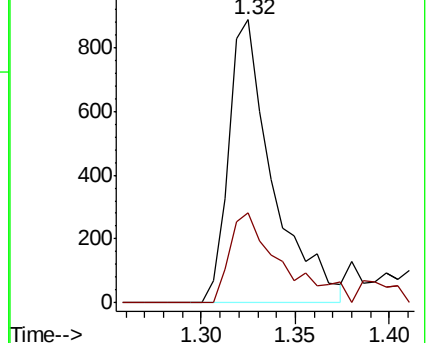
50 100

52 31.8 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

Instrument :

MSVOA_X

ClientSampleId :

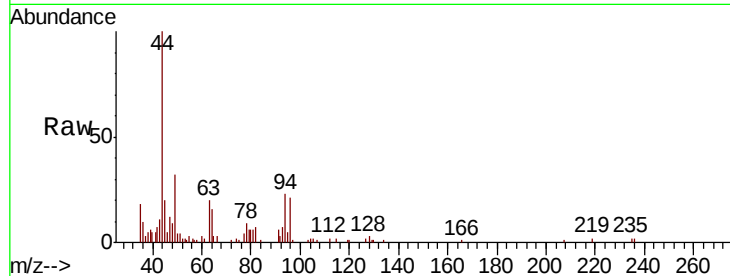
STORAGEBLANK-WATERREF-4

Tot Ion: 94 Resp: 1204

Ion Ratio Lower Upper

94 100

96 93.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

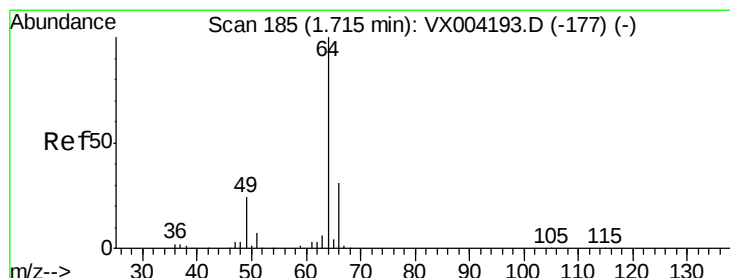
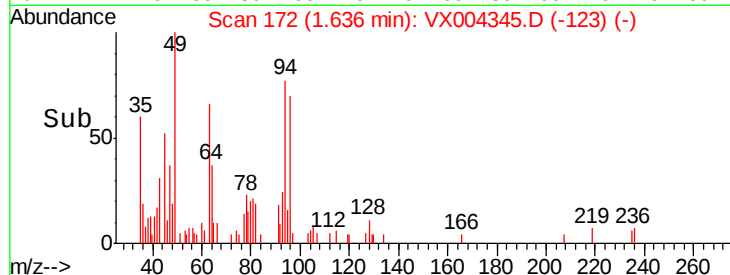
600

400

200

0

Time-->



#6

Chloroethane

Concen: 2.58 ug/l

RT: 1.67 min Scan# 178

Delta R.T. -0.04 min

Lab File: VX004345.D

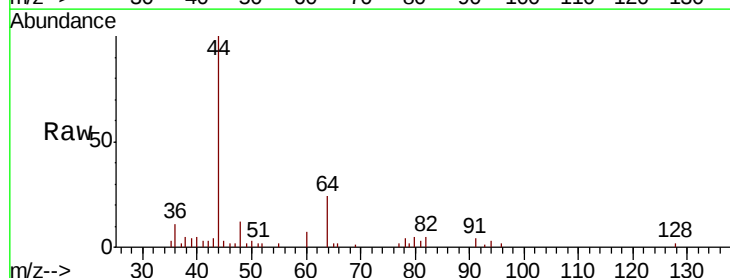
Acq: 04 Sep 2018 14:25

Tgt Ion: 64 Resp: 4717

Ion Ratio Lower Upper

64 100

66 8.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

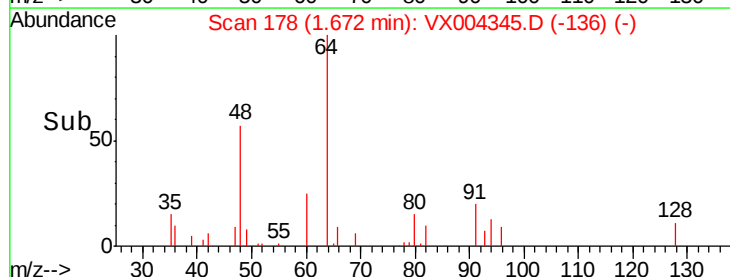
1500

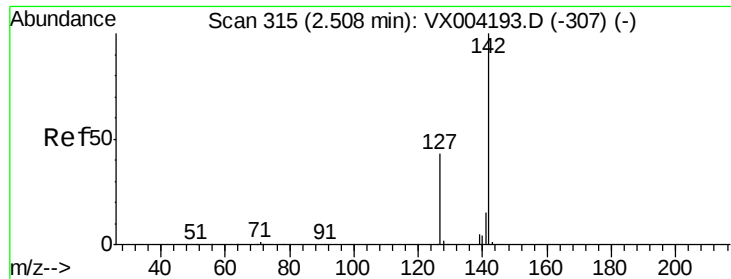
1000

500

0

Time-->

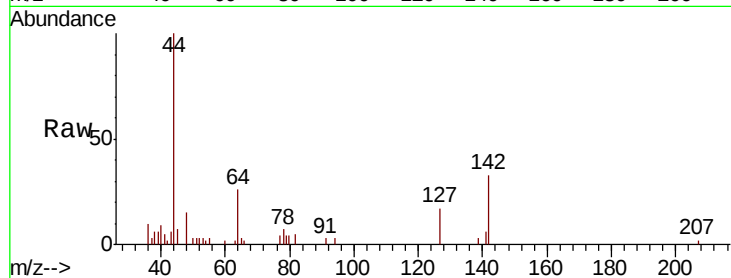




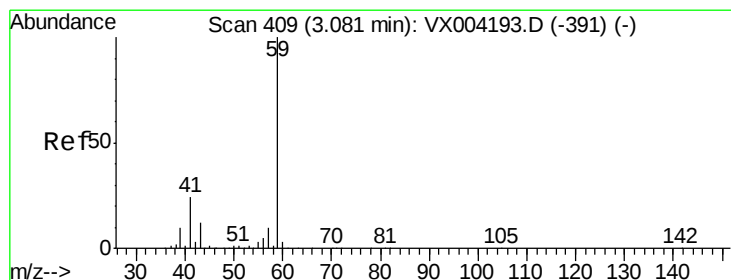
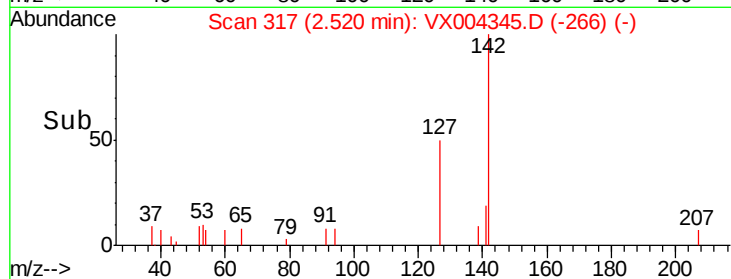
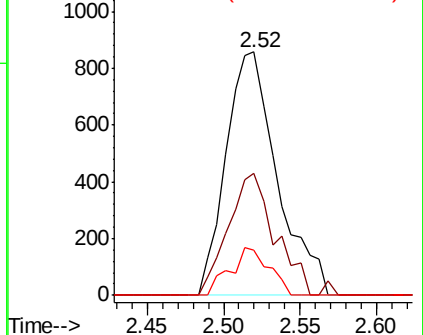
#10
Methvl Iodide
Concen: 4.78 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-WATERREF-4

Tot Ion:142 Resp: 1996
Ion Ratio Lower Upper
142 100
127 45.5 33.8 50.6
141 14.9 11.4 17.0

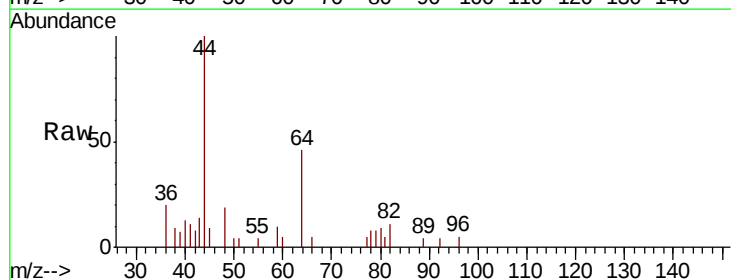


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

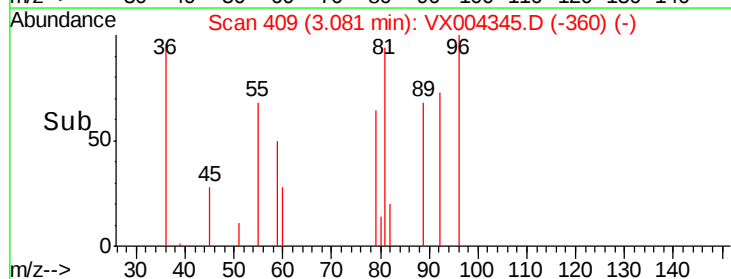
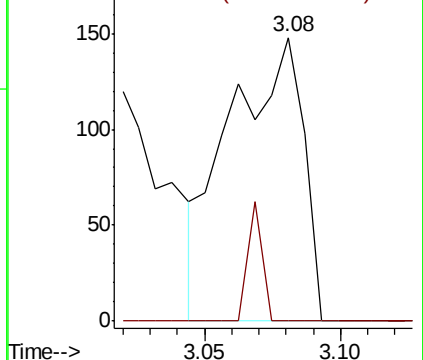


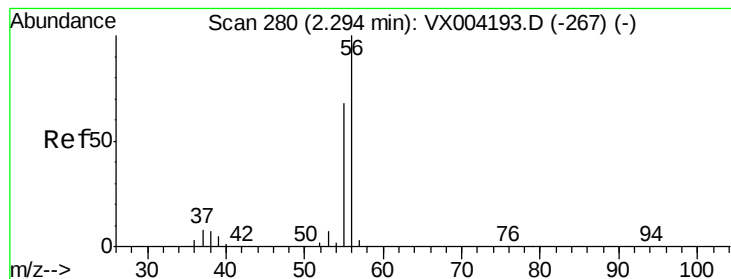
#11
Tert butyl alcohol
Concen: 0.36 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Tgt Ion: 59 Resp: 277
Ion Ratio Lower Upper
59 100
57 8.3 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.34 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

Instrument :

MSVOA_X

ClientSampleId :

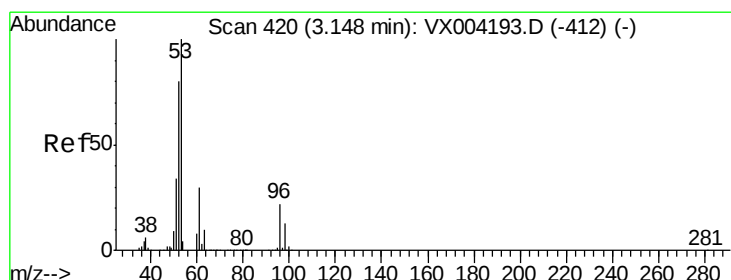
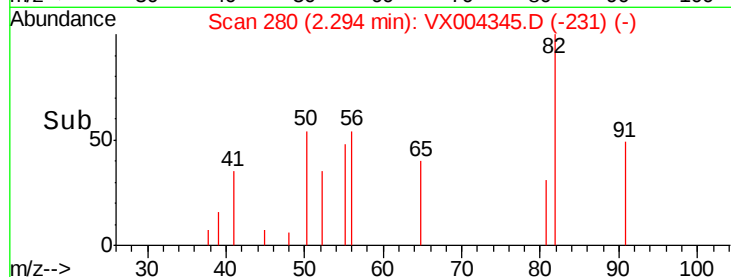
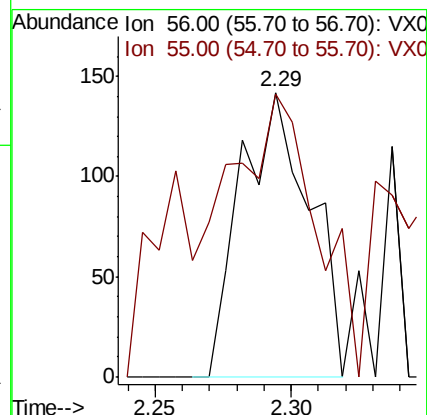
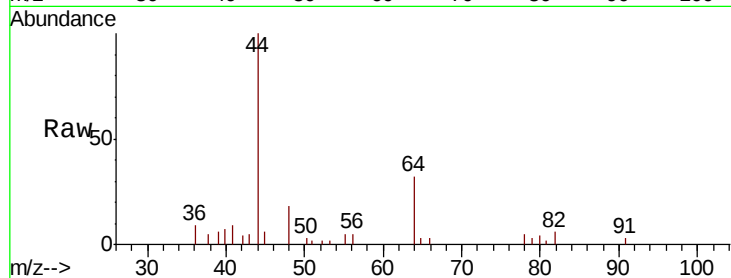
STORAGEBLANK-WATERREF-4

Tot Ion: 56 Resp: 249

Ion Ratio Lower Upper

56 100

55 127.7 54.7 82.1#



#15

Acrylonitrile

Concen: 0.46 ug/l

RT: 3.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

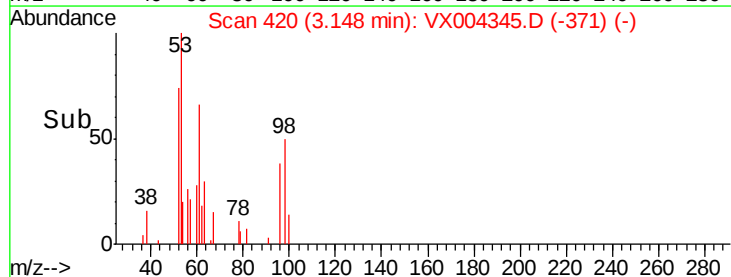
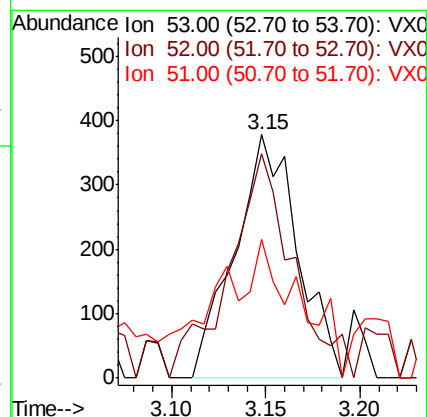
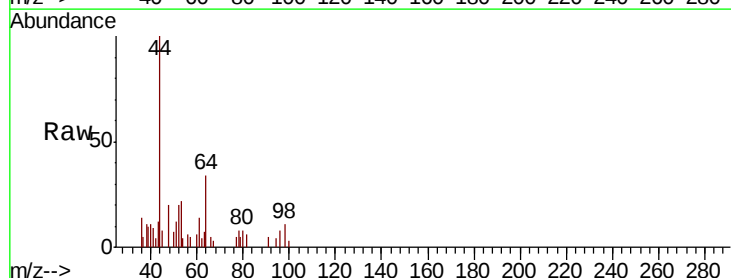
Tgt Ion: 53 Resp: 876

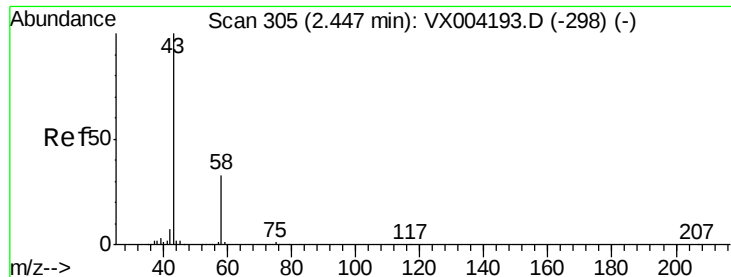
Ion Ratio Lower Upper

53 100

52 93.2 65.2 97.8

51 44.4 28.2 42.2#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

Instrument :

MSVOA_X

ClientSampleId :

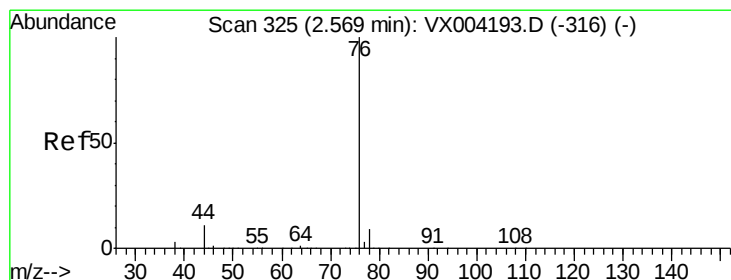
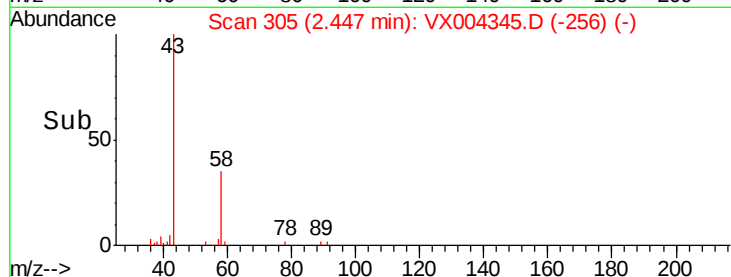
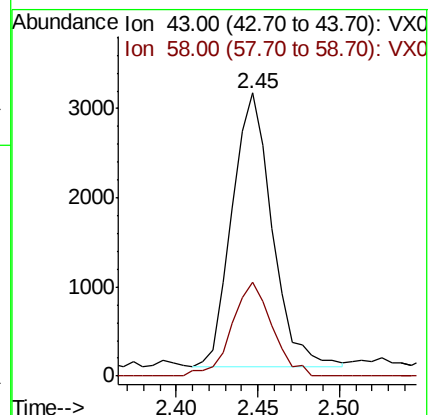
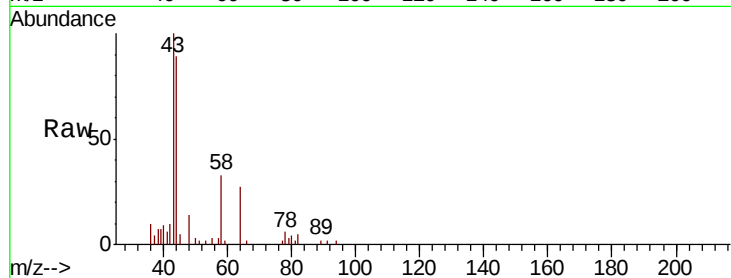
STORAGEBLANK-WATERREF-4

Tot Ion: 43 Resp: 5217

Ion Ratio Lower Upper

43 100

58 34.5 26.2 39.4



#17

Carbon Disulfide

Concen: 1.13 ug/l

RT: 2.56 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX004345.D

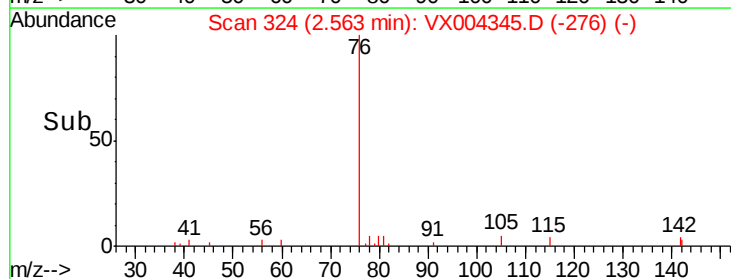
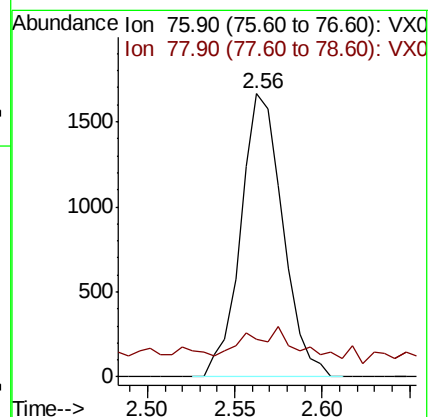
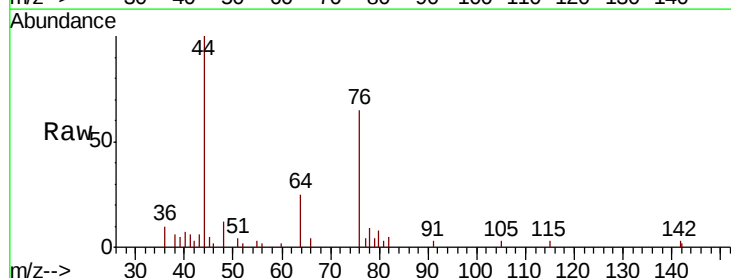
Acq: 04 Sep 2018 14:25

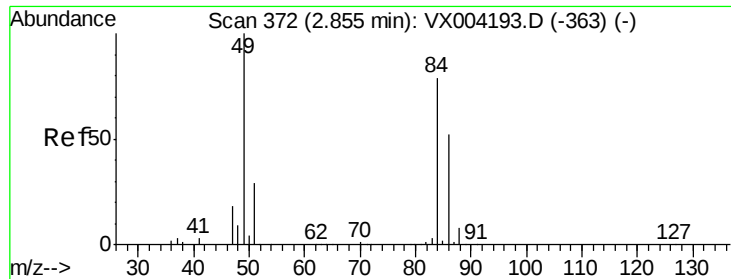
Tgt Ion: 76 Resp: 2781

Ion Ratio Lower Upper

76 100

78 7.0 7.0 10.6#

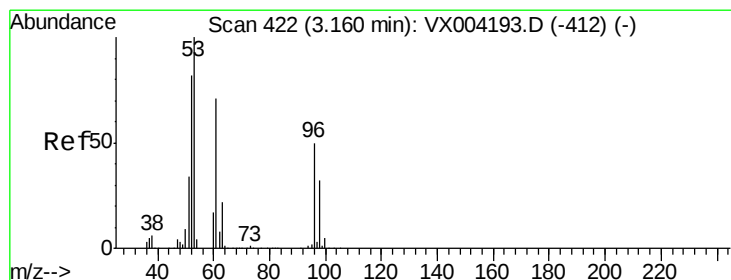
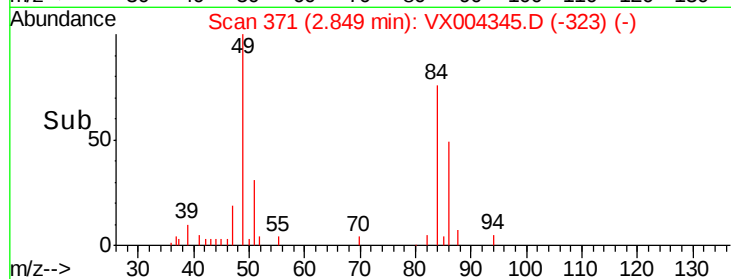
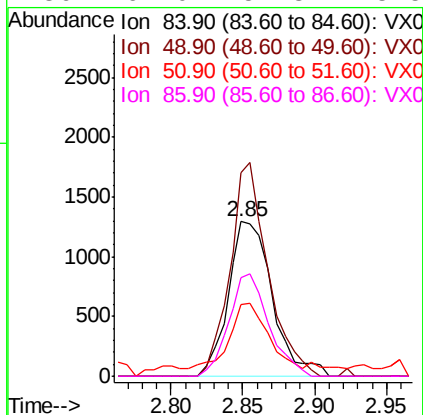
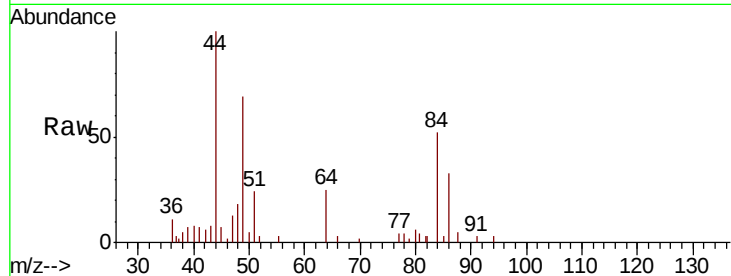




#20
Methylene Chloride
Concen: 0.79 ug/l
RT: 2.85 min Scan# 371
Delta R.T. -0.01 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

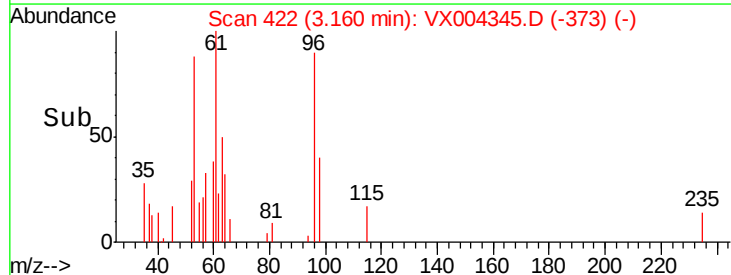
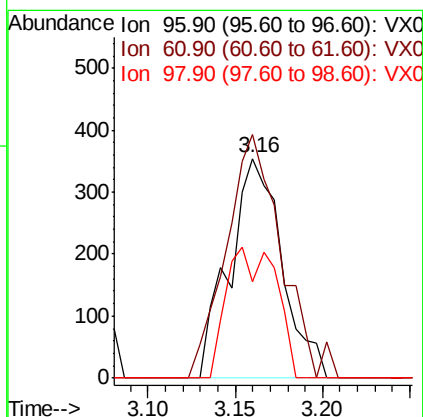
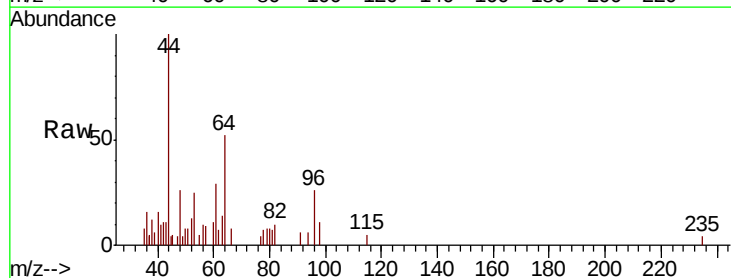
Instrument :
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ClientSampleId :
STORAGEBLANK-WATERREF-4

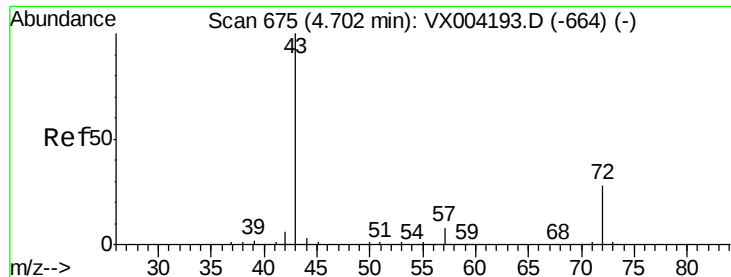
Tot Ion: 84 Resp: 2751
Ion Ratio Lower Upper
84 100
49 132.0 101.2 151.8
51 41.2 29.5 44.3
86 64.0 52.3 78.5



#21
trans-1,2-Dichloroethene
Concen: 0.23 ug/l
RT: 3.16 min Scan# 422
Delta R.T. 0.00 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Tgt Ion: 96 Resp: 745
Ion Ratio Lower Upper
96 100
61 111.0 113.8 170.6#
98 44.1 51.8 77.8#





#25

2-Butanone

Concen: Below Cal

RT: 4.72 min Scan# 678

Delta R.T. 0.02 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

Instrument :

MSVOA_X

ClientSampleId :

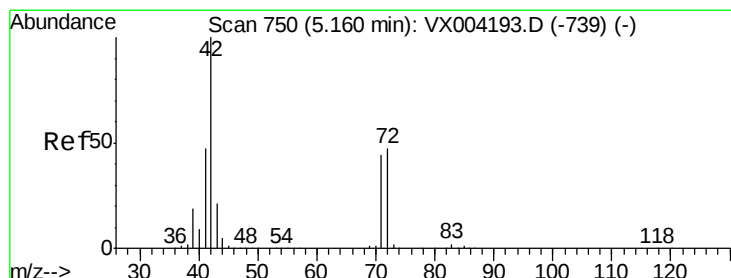
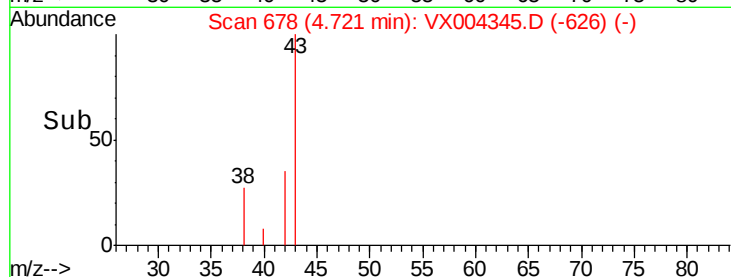
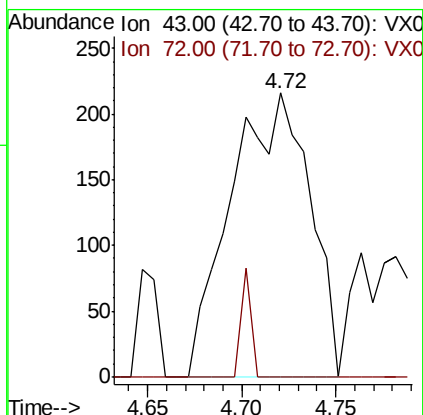
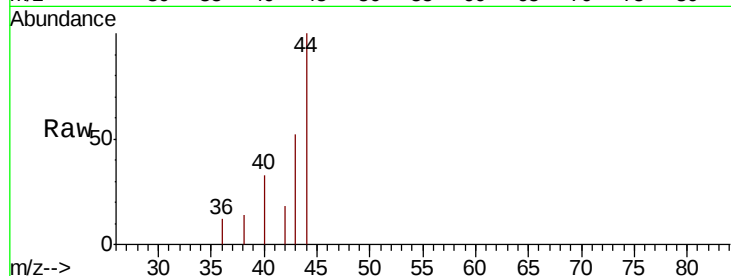
STORAGEBLANK-WATERREF-4

Tot Ion: 43 Resp: 627

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.49 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

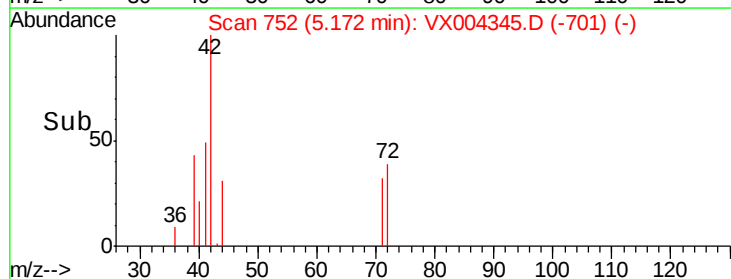
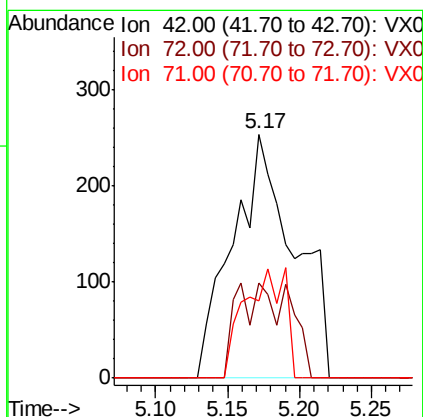
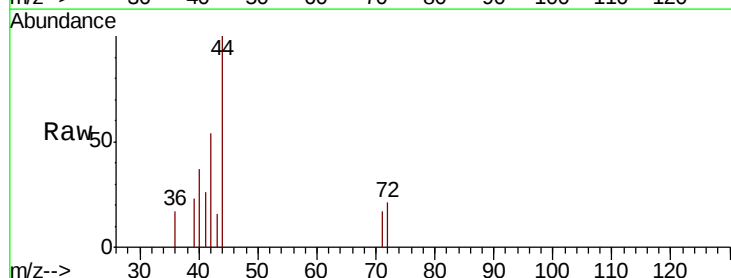
Tgt Ion: 42 Resp: 752

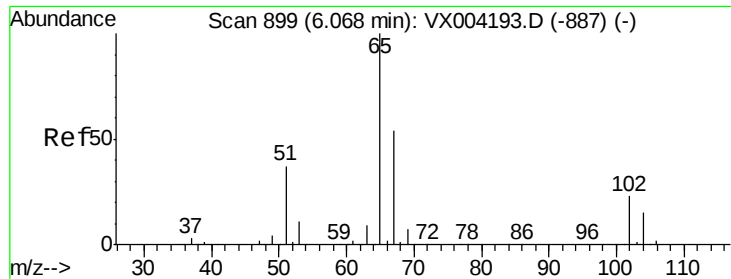
Ion Ratio Lower Upper

42 100

72 11.4 37.4 56.0#

71 0.0 34.5 51.7#

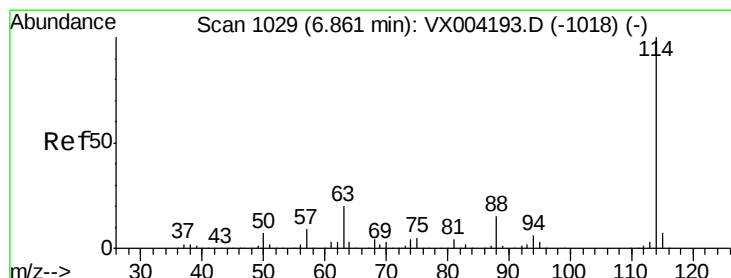
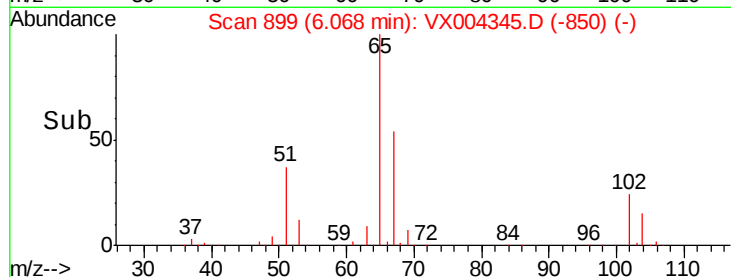
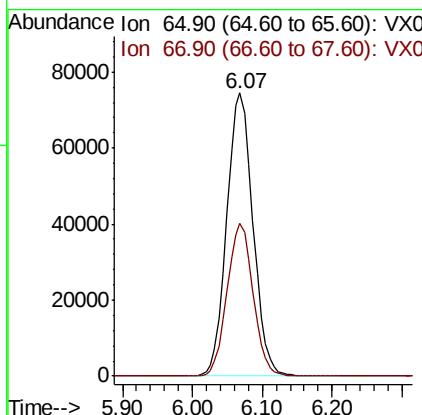
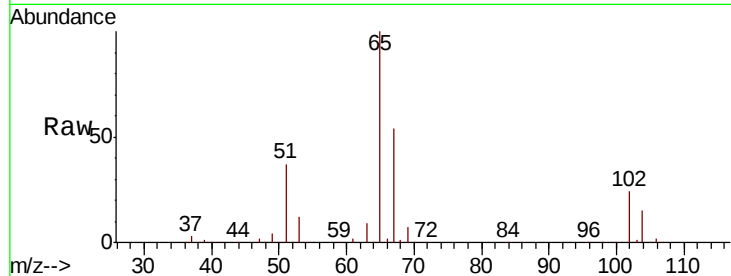




#33
 1,2-Dichloroethane-d4
 Concen: 53.78 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX004345.D
 Acq: 04 Sep 2018 14:25

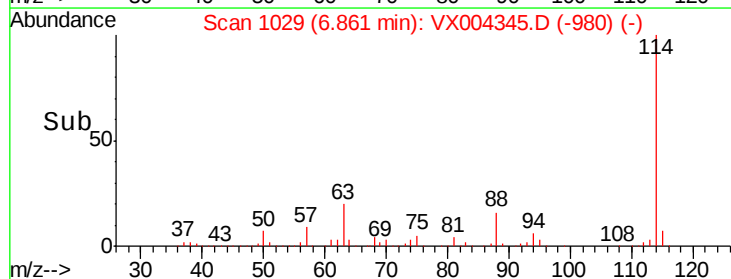
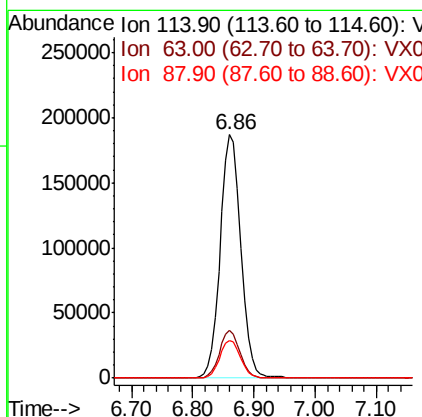
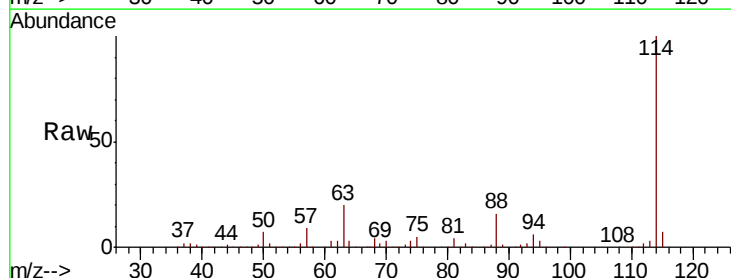
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-WATERREF-4

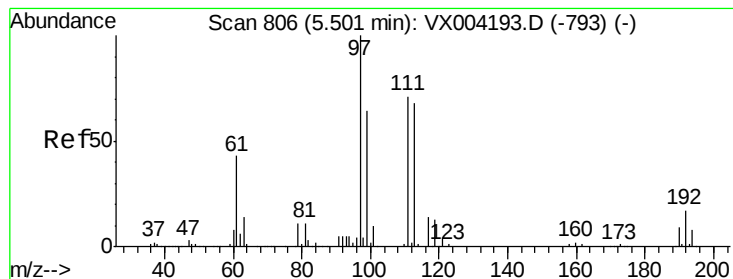
Tot Ion: 65 Resp: 193988
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: VX004345.D
 Acq: 04 Sep 2018 14:25

Tgt Ion: 114 Resp: 439720
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.5 0.0 30.4





#35

Dibromofluoromethane

Concen: 52.12 ug/l

RT: 5.50 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

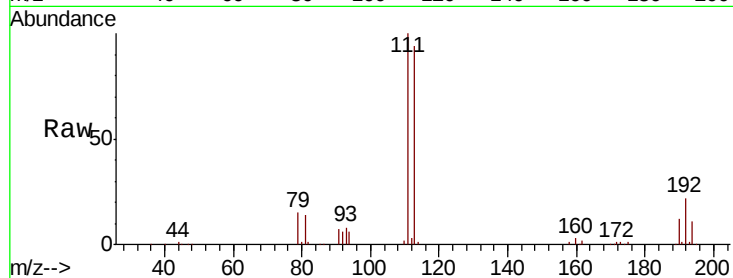
Tot Ion:113 Resp: 170493

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

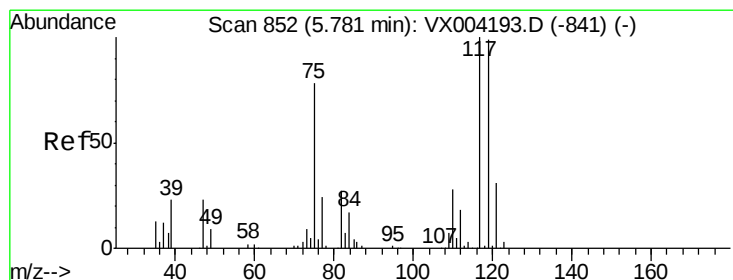
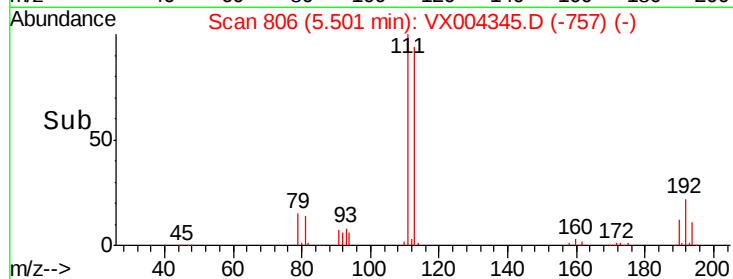
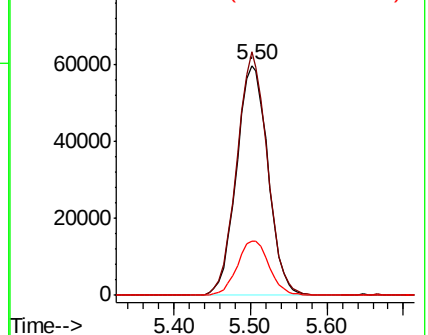
192 23.9 19.4 29.2



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: 5.16 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

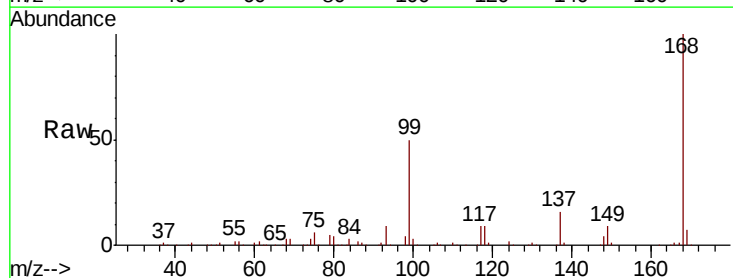
Tgt Ion:117 Resp: 24012

Ion Ratio Lower Upper

117 100

119 7.9 78.8 118.2#

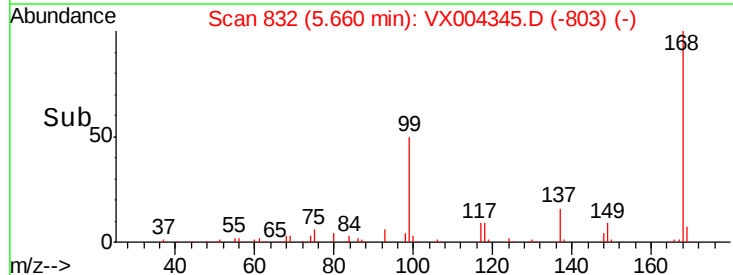
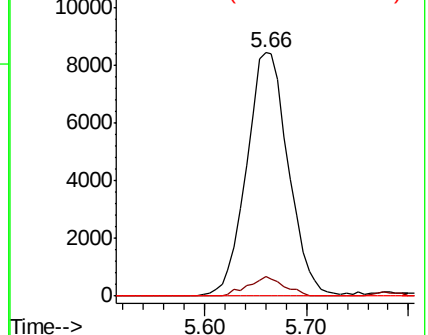
121 0.0 24.9 37.3#

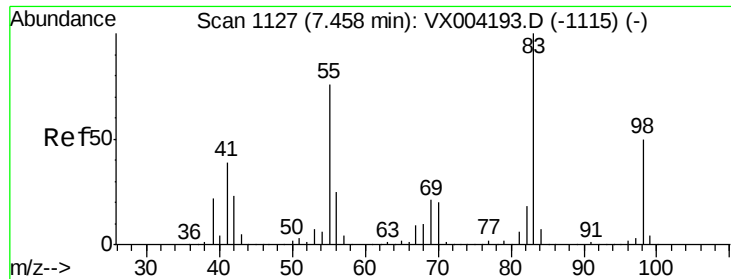


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

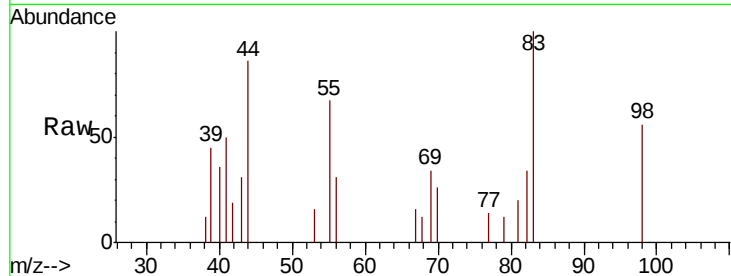




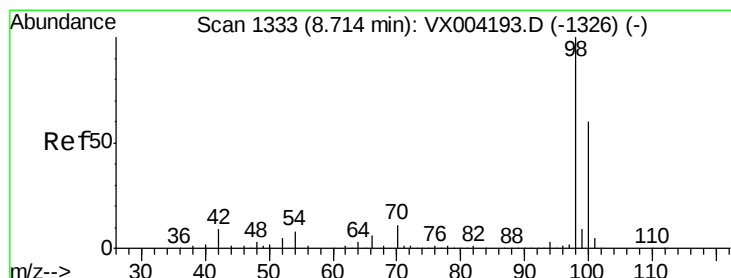
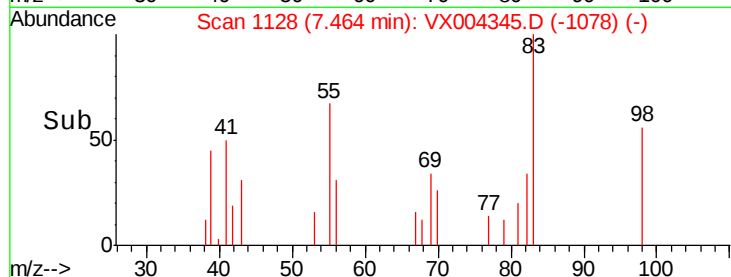
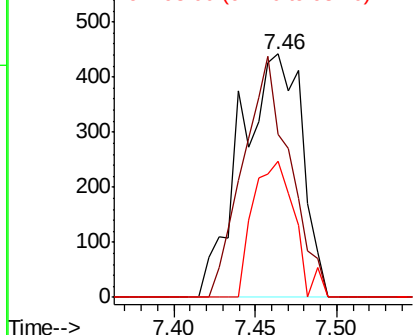
#39
Methylcyclohexane
Concen: 0.21 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-WATERREF-4

Tot Ion: 83 Resp: 1158
Ion Ratio Lower Upper
83 100
55 67.0 61.0 91.4
98 55.9 39.6 59.4

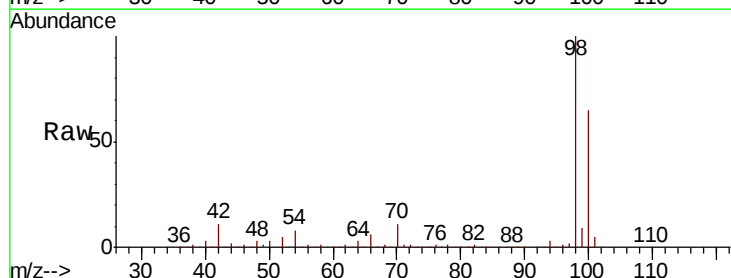


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

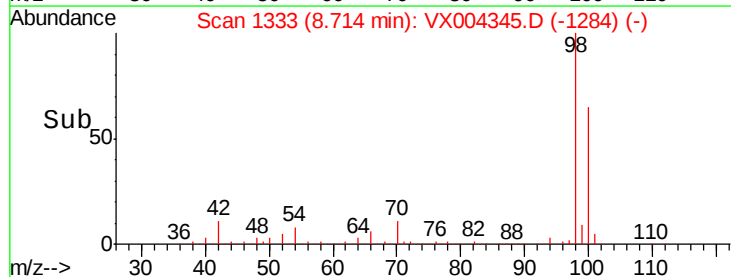
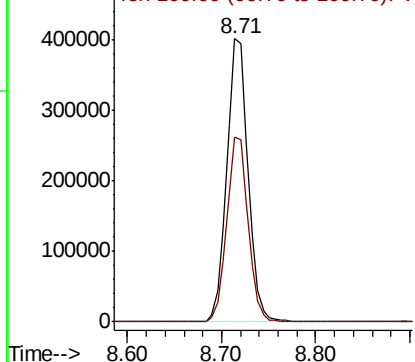


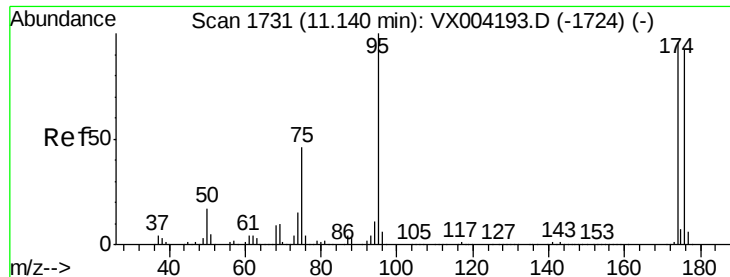
#50
Toluene-d8
Concen: 50.90 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. 0.00 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Tgt Ion: 98 Resp: 628443
Ion Ratio Lower Upper
98 100
100 65.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

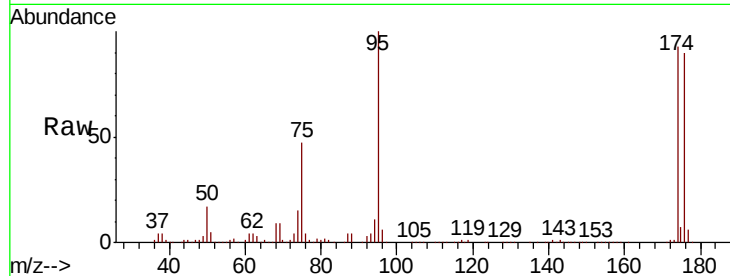




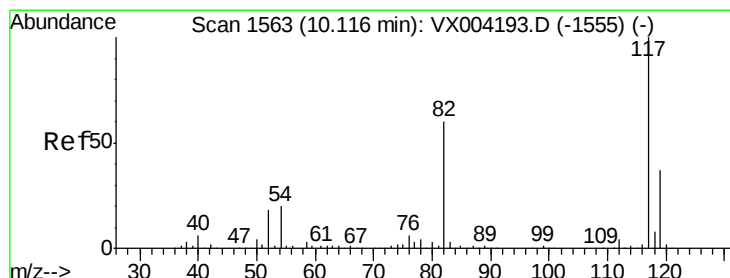
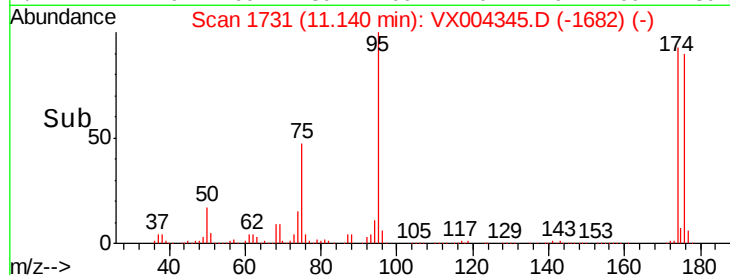
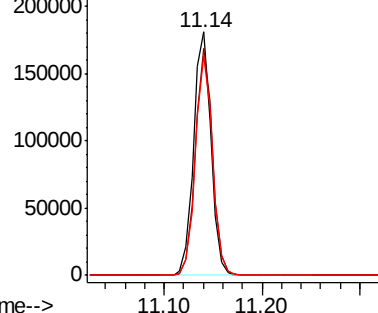
#62
4-Bromofluorobenzene
Concen: 48.28 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-WATERREF-4

Tot Ion: 95 Resp: 222455
Ion Ratio Lower Upper
95 100
174 92.3 0.0 185.2
176 88.9 0.0 178.6

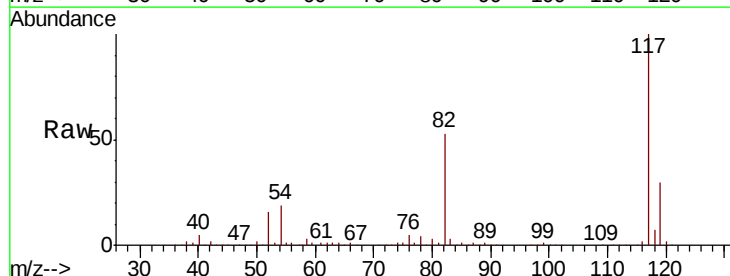


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

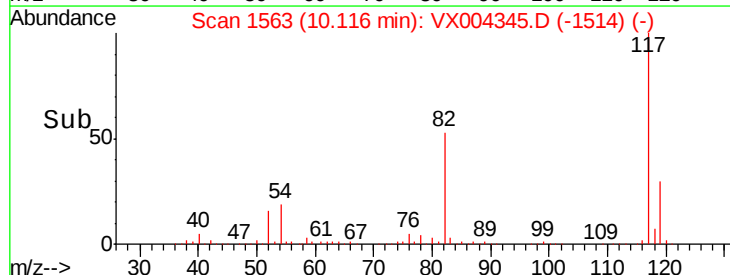
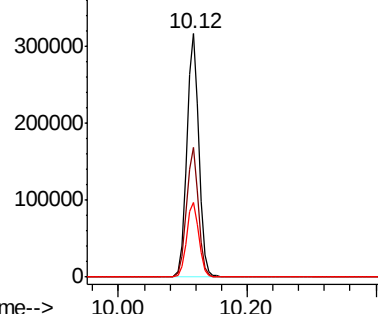


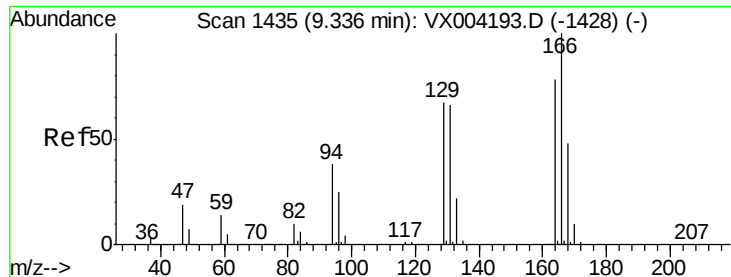
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Tgt Ion: 117 Resp: 415410
Ion Ratio Lower Upper
117 100
82 53.3 47.8 71.6
119 30.5 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

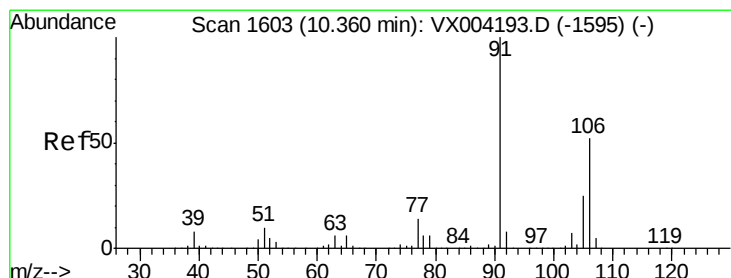
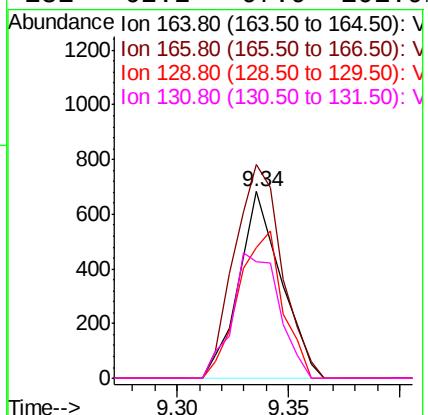
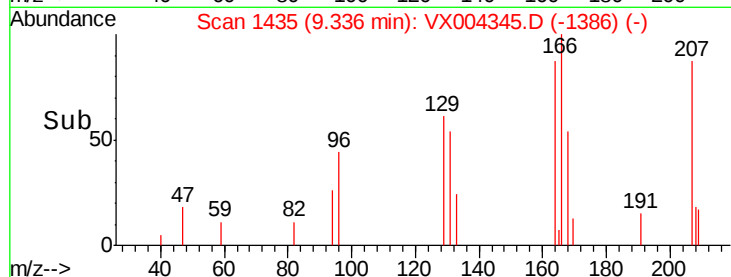
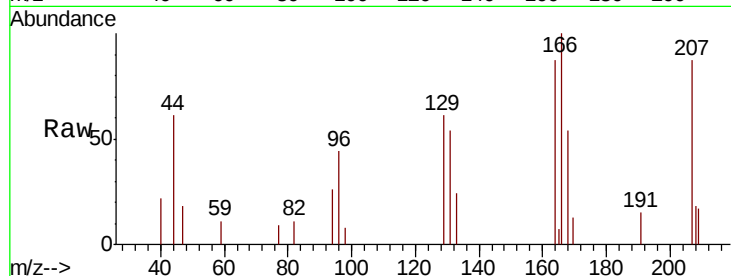




#64
 Tetrachloroethene
 Concen: 0.22 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. 0.00 min
 Lab File: VX004345.D
 Acq: 04 Sep 2018 14:25

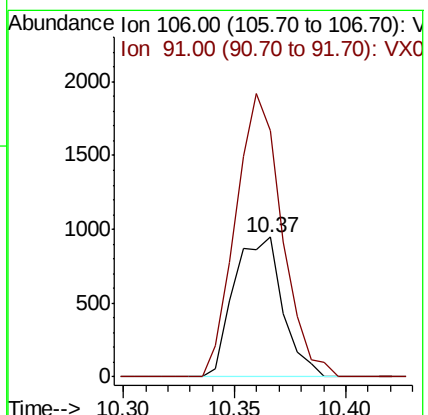
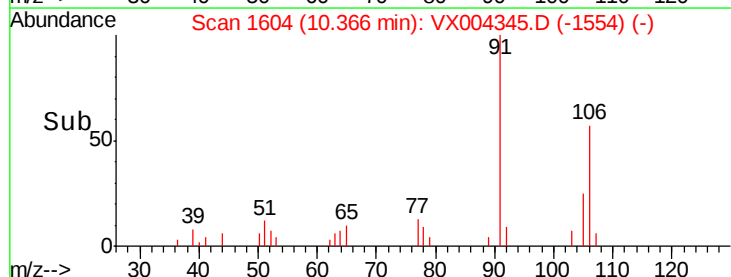
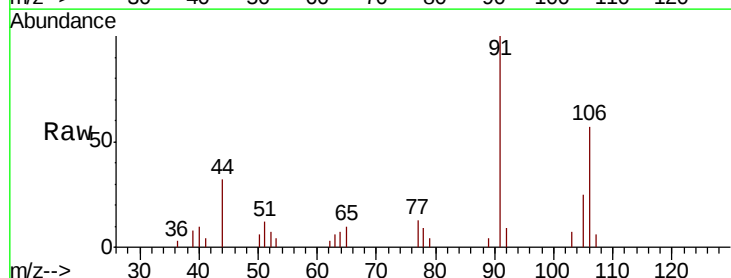
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-WATERREF-4

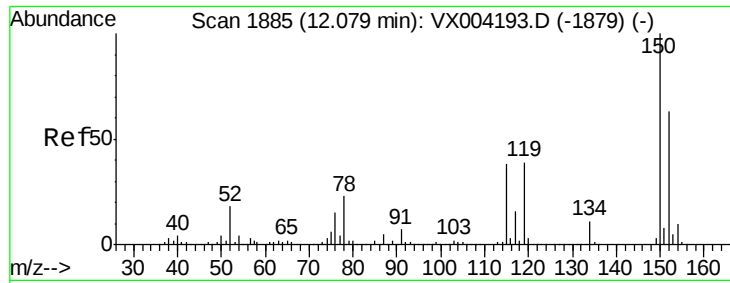
Tot Ion:	164	Resp:	906
Ion	Ratio	Lower	Upper
164	100		
166	114.3	102.8	154.2
129	70.3	69.4	104.0
131	62.2	67.9	101.9#



#68
 m/p-Xylenes
 Concen: 0.22 ug/l
 RT: 10.37 min Scan# 1604
 Delta R.T. 0.01 min
 Lab File: VX004345.D
 Acq: 04 Sep 2018 14:25

Tgt Ion:	106	Resp:	1438
Ion	Ratio	Lower	Upper
106	100		
91	193.3	157.1	235.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

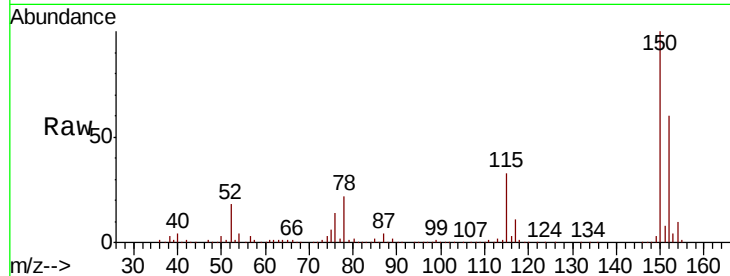
Tot Ion:152 Resp: 224553

Ion Ratio Lower Upper

152 100

115 52.7 39.0 117.0

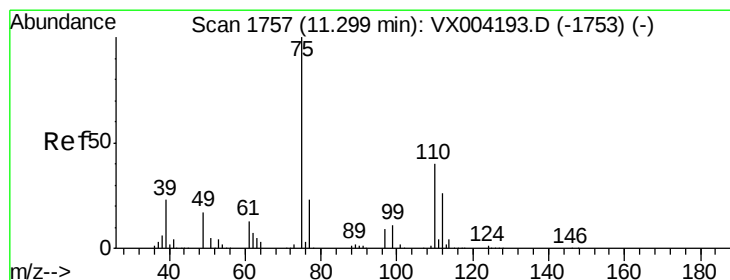
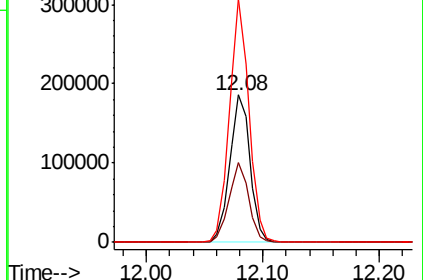
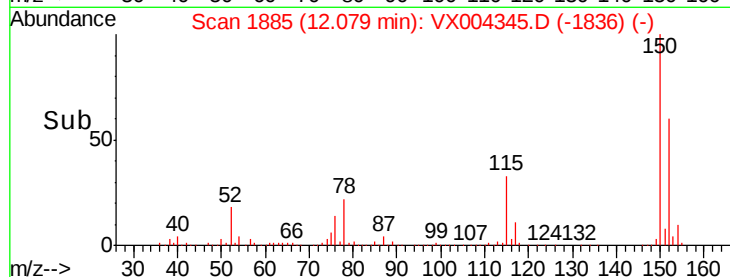
150 159.0 0.0 351.0



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: 23.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004345.D

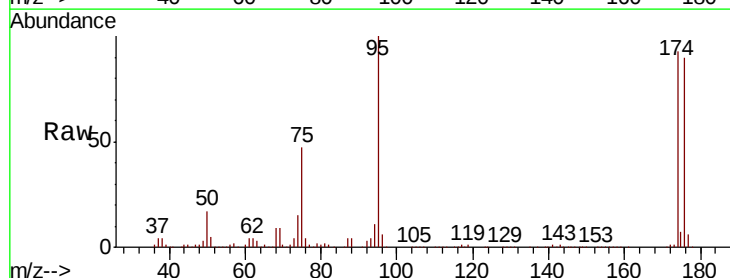
Acq: 04 Sep 2018 14:25

Tgt Ion: 75 Resp: 106238

Ion Ratio Lower Upper

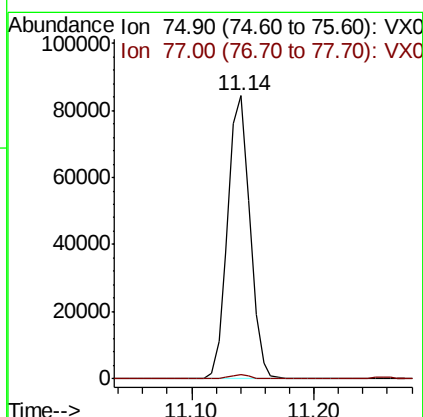
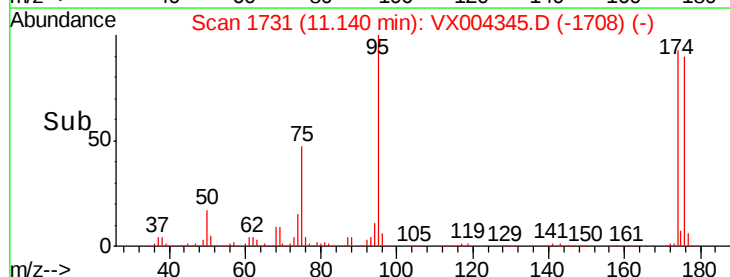
75 100

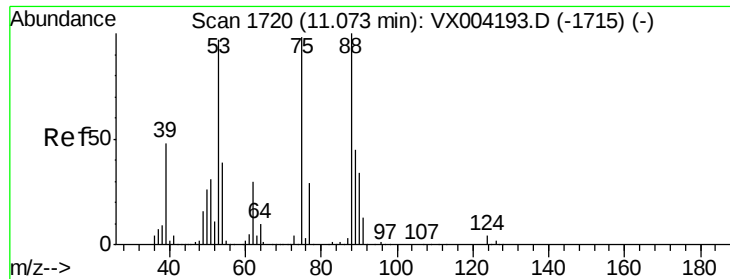
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

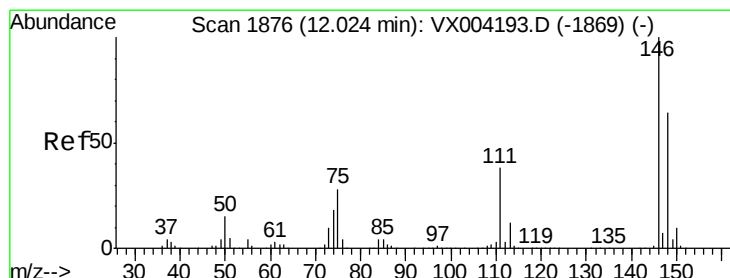
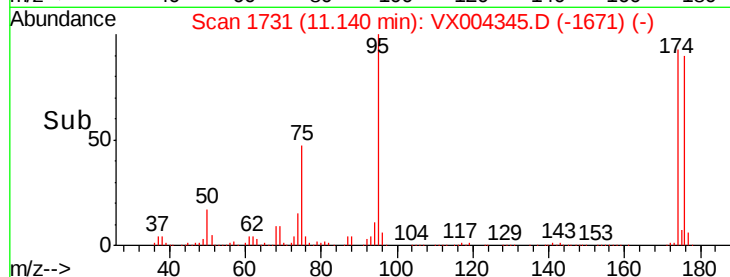
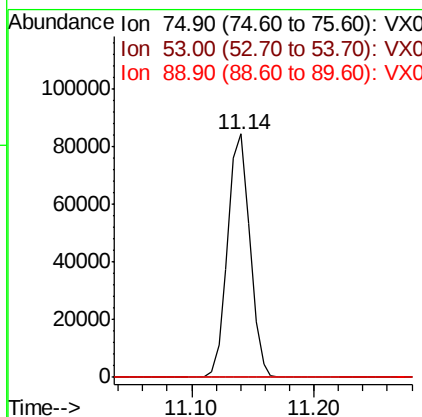
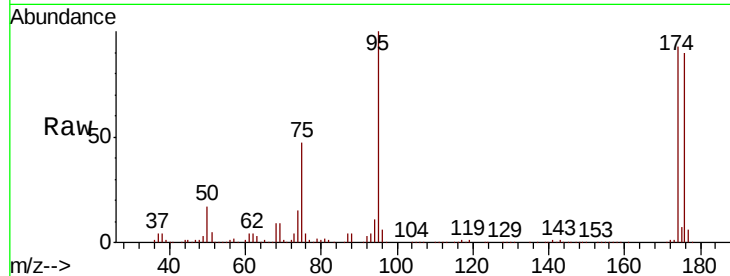




#81
trans-1,4-Dichloro-2-butene
Concen: 75.48 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.07 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

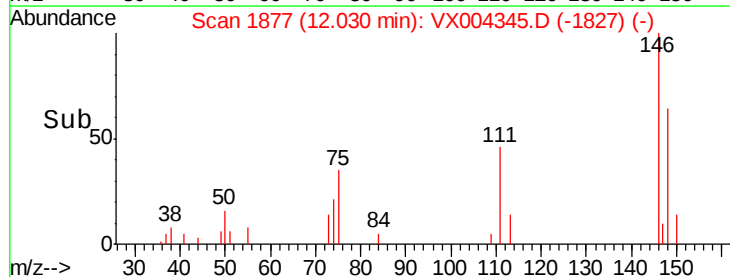
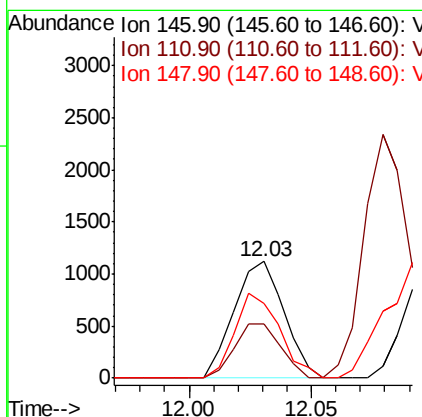
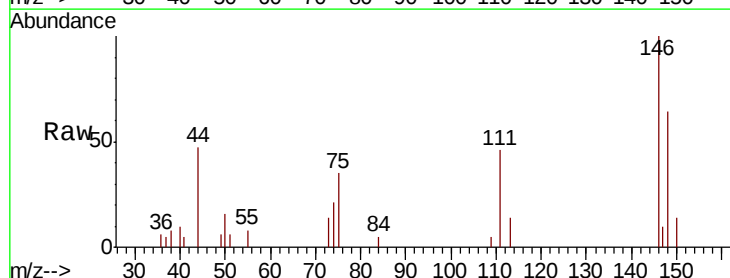
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-WATERREF-4

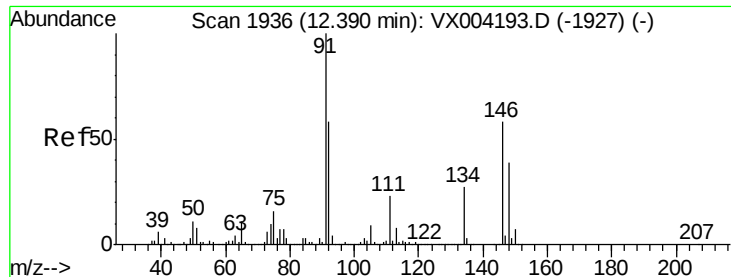
Tot Ion: 75 Resp: 106238
Ion Ratio Lower Upper
75 100
53 0.2 80.1 120.1#
89 0.0 37.2 55.8#



#87
1,3-Dichlorobenzene
Concen: 0.20 ug/l
RT: 12.03 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Tgt Ion: 146 Resp: 1588
Ion Ratio Lower Upper
146 100
111 43.1 18.7 56.1
148 65.2 32.1 96.5

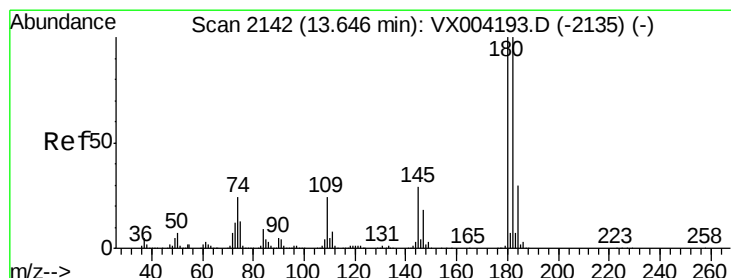
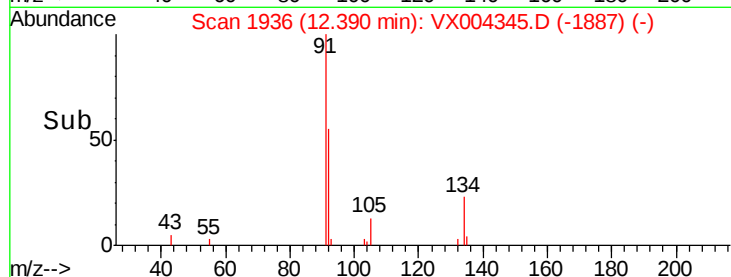
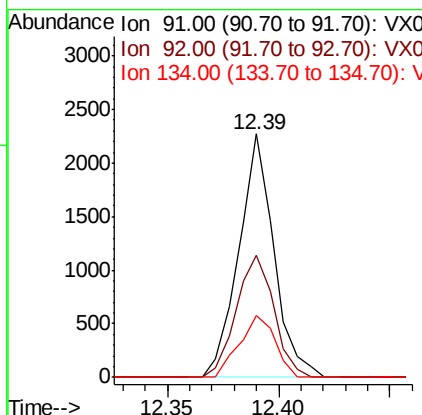
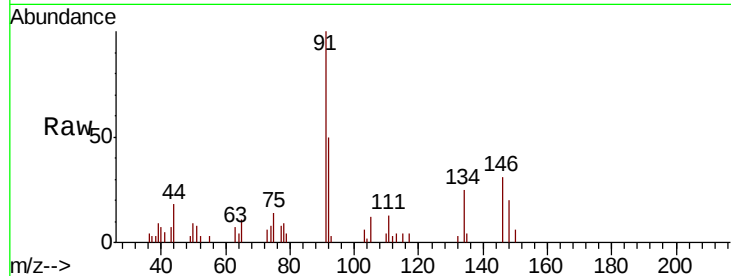




#89
n-Butylbenzene
Concen: 0.23 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

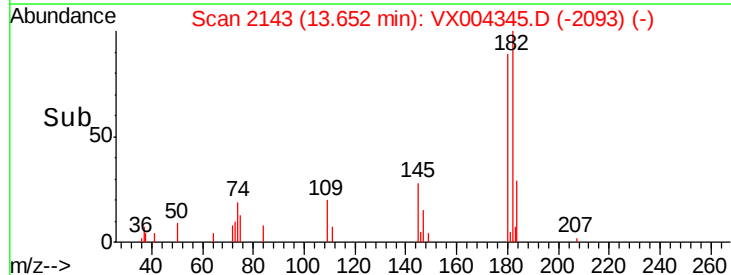
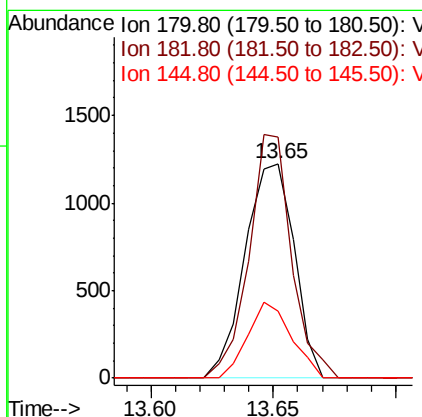
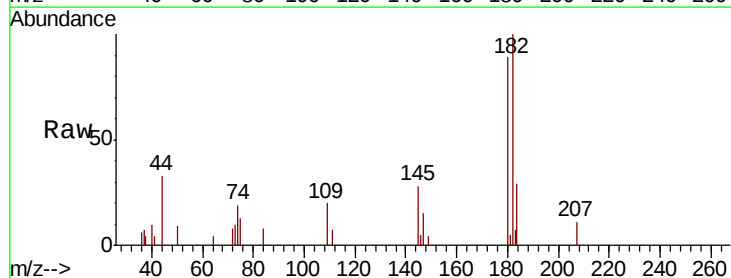
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-WATERREF-4

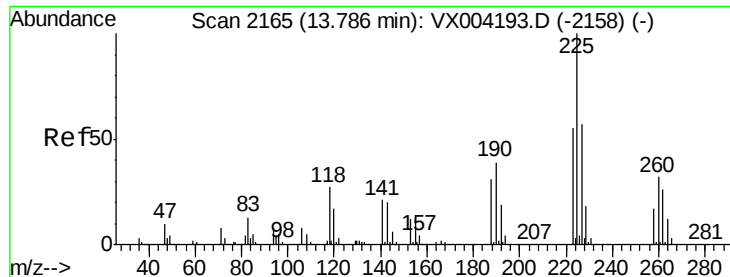
Tot Ion: 91 Resp: 2495
Ion Ratio Lower Upper
91 100
92 53.6 27.3 81.9
134 25.4 13.6 40.7



#93
1,2,4-Trichlorobenzene
Concen: 0.33 ug/l
RT: 13.65 min Scan# 2143
Delta R.T. 0.01 min
Lab File: VX004345.D
Acq: 04 Sep 2018 14:25

Tgt Ion:180 Resp: 1717
Ion Ratio Lower Upper
180 100
182 98.8 48.4 145.0
145 31.3 14.3 42.9





#94

Hexachlorobutadiene

Concen: 0.26 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

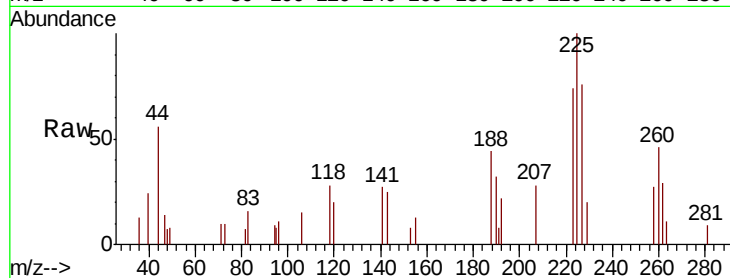
Tot Ion:225 Resp: 958

Ion Ratio Lower Upper

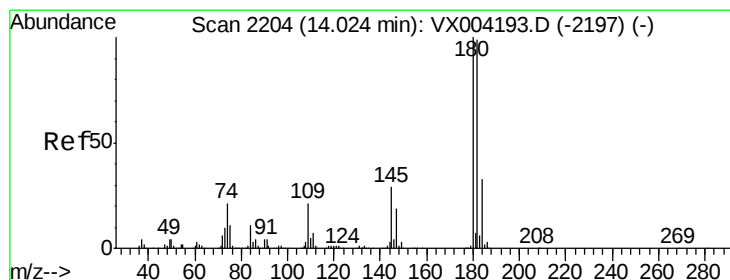
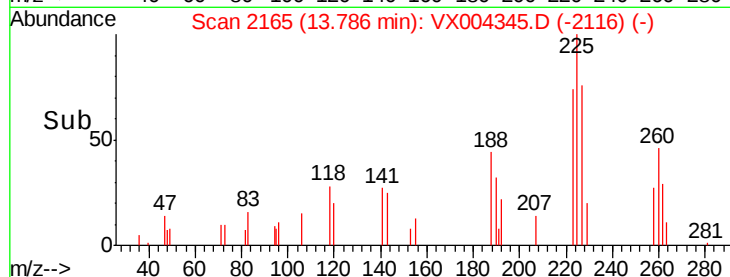
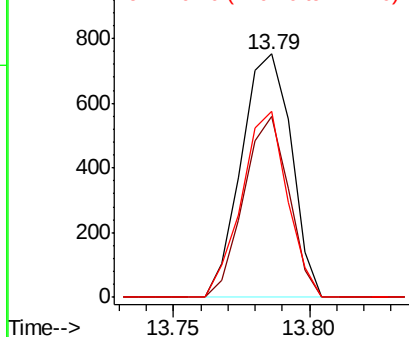
225 100

223 66.9 30.1 90.5

227 70.0 30.8 92.4



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



#96

1,2,3-Trichlorobenzene

Concen: 0.26 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VX004345.D

Acq: 04 Sep 2018 14:25

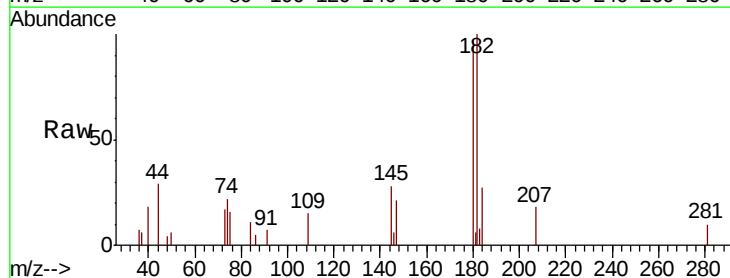
Tgt Ion:180 Resp: 1420

Ion Ratio Lower Upper

180 100

182 97.7 48.5 145.6

145 31.3 14.9 44.9



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

